

Appendix C.5

LTE Band n41



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中国·广东·深圳市南山区科技园中区M-10栋1号厂房	邮编: 518057	t (86-755) 26012053	sgs.china@sgs.com

1.1.1 30k_MIMO_20MHz_NTNV_EIRP

5G NR n41 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	2506.02	Edge_1RB_Left	20.30	19.98	23.15	27.27	26.95	30.12	<=33	Pass
		Edge_1RB_Right	20.09	19.85	22.98	27.06	26.82	29.95	<=33	Pass
		Outer_Full	20.70	20.39	23.56	27.67	27.36	30.53	<=33	Pass
		Inner_Full	22.21	21.87	25.05	29.18	28.84	32.02	<=33	Pass
		Inner_1RB_Left	22.14	21.91	25.04	29.11	28.88	32.01	<=33	Pass
		Inner_1RB_Right	22.06	21.84	24.96	29.03	28.81	31.93	<=33	Pass
	2592.99	Edge_1RB_Left	20.20	19.89	23.06	27.17	26.86	30.03	<=33	Pass
		Edge_1RB_Right	20.53	19.88	23.23	27.50	26.85	30.20	<=33	Pass
		Outer_Full	20.79	20.50	23.66	27.76	27.47	30.63	<=33	Pass
		Inner_Full	22.37	21.97	25.18	29.34	28.94	32.15	<=33	Pass
		Inner_1RB_Left	22.15	21.82	25.00	29.12	28.79	31.97	<=33	Pass
		Inner_1RB_Right	22.45	21.95	25.22	29.42	28.92	32.19	<=33	Pass
	2679.99	Edge_1RB_Left	20.13	19.89	23.02	27.10	26.86	29.99	<=33	Pass
		Edge_1RB_Right	20.23	19.77	23.02	27.20	26.74	29.99	<=33	Pass
		Outer_Full	20.67	20.20	23.45	27.64	27.17	30.42	<=33	Pass
		Inner_Full	22.22	21.78	25.02	29.19	28.75	31.99	<=33	Pass
		Inner_1RB_Left	22.16	21.80	24.99	29.13	28.77	31.96	<=33	Pass
		Inner_1RB_Right	22.20	21.74	24.99	29.17	28.71	31.96	<=33	Pass
CP-OFDM 16 QAM	2506.02	Edge_1RB_Left	20.18	19.80	23.00	27.15	26.77	29.97	<=33	Pass
		Edge_1RB_Right	20.00	19.56	22.80	26.97	26.53	29.77	<=33	Pass
		Outer_Full	20.68	20.36	23.53	27.65	27.33	30.50	<=33	Pass
		Inner_Full	21.72	21.27	24.51	28.69	28.24	31.48	<=33	Pass
		Inner_1RB_Left	21.67	21.28	24.49	28.64	28.25	31.46	<=33	Pass
		Inner_1RB_Right	21.57	21.15	24.38	28.54	28.12	31.35	<=33	Pass
	2592.99	Edge_1RB_Left	20.17	19.77	22.98	27.14	26.74	29.95	<=33	Pass
		Edge_1RB_Right	20.30	19.97	23.15	27.27	26.94	30.12	<=33	Pass
		Outer_Full	20.90	20.45	23.69	27.87	27.42	30.66	<=33	Pass
		Inner_Full	21.85	21.36	24.62	28.82	28.33	31.59	<=33	Pass
		Inner_1RB_Left	21.71	21.33	24.53	28.68	28.30	31.50	<=33	Pass
		Inner_1RB_Right	21.88	21.42	24.67	28.85	28.39	31.64	<=33	Pass
	2679.99	Edge_1RB_Left	20.35	19.80	23.09	27.32	26.77	30.06	<=33	Pass
		Edge_1RB_Right	20.34	19.69	23.04	27.31	26.66	30.01	<=33	Pass
		Outer_Full	20.67	20.19	23.45	27.64	27.16	30.42	<=33	Pass



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com

CP-OFDM 64 QAM		Inner_Full	21.70	21.16	24.45	28.67	28.13	31.42	<=33	Pass
		Inner_1RB_Left	21.72	21.27	24.51	28.69	28.24	31.48	<=33	Pass
		Inner_1RB_Right	21.65	21.17	24.43	28.62	28.14	31.40	<=33	Pass
	2506.02	Edge_1RB_Left	20.19	19.89	23.05	27.16	26.86	30.02	<=33	Pass
		Edge_1RB_Right	20.03	19.76	22.91	27.00	26.73	29.88	<=33	Pass
		Outer_Full	20.25	19.86	23.07	27.22	26.83	30.04	<=33	Pass
		Inner_Full	20.24	19.84	23.05	27.21	26.81	30.02	<=33	Pass
		Inner_1RB_Left	20.30	19.70	23.02	27.27	26.67	29.99	<=33	Pass
		Inner_1RB_Right	19.97	19.93	22.96	26.94	26.90	29.93	<=33	Pass
	2592.99	Edge_1RB_Left	20.23	19.92	23.09	27.20	26.89	30.06	<=33	Pass
		Edge_1RB_Right	20.46	20.01	23.25	27.43	26.98	30.22	<=33	Pass
		Outer_Full	20.41	19.98	23.21	27.38	26.95	30.18	<=33	Pass
		Inner_Full	20.46	19.93	23.21	27.43	26.90	30.18	<=33	Pass
		Inner_1RB_Left	20.13	19.90	23.03	27.10	26.87	30.00	<=33	Pass
		Inner_1RB_Right	20.37	19.90	23.15	27.34	26.87	30.12	<=33	Pass
	2679.99	Edge_1RB_Left	20.17	19.61	22.91	27.14	26.58	29.88	<=33	Pass
		Edge_1RB_Right	20.14	19.82	22.99	27.11	26.79	29.96	<=33	Pass
		Outer_Full	20.23	19.75	23.01	27.20	26.72	29.98	<=33	Pass
		Inner_Full	20.20	19.76	23.00	27.17	26.73	29.97	<=33	Pass
		Inner_1RB_Left	20.15	19.98	23.08	27.12	26.95	30.05	<=33	Pass
		Inner_1RB_Right	20.49	19.67	23.11	27.46	26.64	30.08	<=33	Pass
CP-OFDM 256 QAM	2506.02	Edge_1RB_Left	17.21	16.83	20.03	24.18	23.80	27.00	<=33	Pass
		Edge_1RB_Right	17.15	16.68	19.93	24.12	23.65	26.90	<=33	Pass
		Outer_Full	17.29	16.90	20.11	24.26	23.87	27.08	<=33	Pass
		Inner_Full	17.30	16.89	20.11	24.27	23.86	27.08	<=33	Pass
		Inner_1RB_Left	17.21	16.73	19.99	24.18	23.70	26.96	<=33	Pass
		Inner_1RB_Right	17.29	16.88	20.10	24.26	23.85	27.07	<=33	Pass
	2592.99	Edge_1RB_Left	17.31	17.02	20.18	24.28	23.99	27.15	<=33	Pass
		Edge_1RB_Right	17.45	17.14	20.31	24.42	24.11	27.28	<=33	Pass
		Outer_Full	17.46	16.95	20.22	24.43	23.92	27.19	<=33	Pass
		Inner_Full	17.47	16.96	20.23	24.44	23.93	27.20	<=33	Pass
		Inner_1RB_Left	17.22	16.84	20.04	24.19	23.81	27.01	<=33	Pass
		Inner_1RB_Right	17.65	17.10	20.39	24.62	24.07	27.36	<=33	Pass
	2679.99	Edge_1RB_Left	17.19	16.84	20.03	24.16	23.81	27.00	<=33	Pass
		Edge_1RB_Right	17.32	16.85	20.10	24.29	23.82	27.07	<=33	Pass
		Outer_Full	17.24	16.86	20.06	24.21	23.83	27.03	<=33	Pass
		Inner_Full	17.23	16.87	20.06	24.20	23.84	27.03	<=33	Pass
		Inner_1RB_Left	17.26	16.87	20.08	24.23	23.84	27.05	<=33	Pass



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		Inner_1RB_Right	17.31	16.81	20.08	24.28	23.78	27.05	<=33	Pass
Note1: Antenna Gain: Ant1: 6.97dBi; Ant2: 6.97dBi; 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_40MHz_NTNV_EIRP

5G NR n41 SCS=30kHz MIMO 40MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	2516.01	Edge_1RB_Left	20.15	20.08	23.13	27.12	27.05	30.10	<=33	Pass
		Edge_1RB_Right	19.83	19.75	22.80	26.80	26.72	29.77	<=33	Pass
		Outer_Full	20.68	20.26	23.49	27.65	27.23	30.46	<=33	Pass
		Inner_Full	22.03	21.74	24.90	29.00	28.71	31.87	<=33	Pass
		Inner_1RB_Left	22.25	22.04	25.16	29.22	29.01	32.13	<=33	Pass
		Inner_1RB_Right	21.91	21.70	24.82	28.88	28.67	31.79	<=33	Pass
	2592.99	Edge_1RB_Left	20.27	19.94	23.12	27.24	26.91	30.09	<=33	Pass
		Edge_1RB_Right	20.50	20.00	23.27	27.47	26.97	30.24	<=33	Pass
		Outer_Full	20.93	20.36	23.66	27.90	27.33	30.63	<=33	Pass
		Inner_Full	22.31	21.83	25.09	29.28	28.80	32.06	<=33	Pass
		Inner_1RB_Left	22.26	21.77	25.03	29.23	28.74	32.00	<=33	Pass
		Inner_1RB_Right	22.43	22.47	25.46	29.40	29.44	32.43	<=33	Pass
	2670	Edge_1RB_Left	20.44	20.12	23.29	27.41	27.09	30.26	<=33	Pass
		Edge_1RB_Right	20.40	20.00	23.21	27.37	26.97	30.18	<=33	Pass
		Outer_Full	20.86	20.36	23.63	27.83	27.33	30.60	<=33	Pass
		Inner_Full	22.17	21.80	25.00	29.14	28.77	31.97	<=33	Pass
		Inner_1RB_Left	22.35	21.96	25.17	29.32	28.93	32.14	<=33	Pass
		Inner_1RB_Right	22.49	21.96	25.24	29.46	28.93	32.21	<=33	Pass
CP-OFDM 16 QAM	2516.01	Edge_1RB_Left	20.32	19.95	23.15	27.29	26.92	30.12	<=33	Pass
		Edge_1RB_Right	19.89	19.85	22.88	26.86	26.82	29.85	<=33	Pass
		Outer_Full	20.56	20.26	23.42	27.53	27.23	30.39	<=33	Pass
		Inner_Full	21.57	21.22	24.41	28.54	28.19	31.38	<=33	Pass
		Inner_1RB_Left	21.59	21.44	24.53	28.56	28.41	31.50	<=33	Pass
		Inner_1RB_Right	21.36	21.35	24.37	28.33	28.32	31.34	<=33	Pass
	2592.99	Edge_1RB_Left	20.29	19.78	23.05	27.26	26.75	30.02	<=33	Pass
		Edge_1RB_Right	20.49	19.89	23.21	27.46	26.86	30.18	<=33	Pass
		Outer_Full	20.95	20.35	23.67	27.92	27.32	30.64	<=33	Pass
		Inner_Full	21.83	21.43	24.64	28.80	28.40	31.61	<=33	Pass



		Inner_1RB_Left	21.76	21.38	24.58	28.73	28.35	31.55	<=33	Pass
		Inner_1RB_Right	21.89	21.54	24.73	28.86	28.51	31.70	<=33	Pass
	2670	Edge_1RB_Left	20.44	20.01	23.24	27.41	26.98	30.21	<=33	Pass
		Edge_1RB_Right	20.47	20.06	23.28	27.44	27.03	30.25	<=33	Pass
		Outer_Full	20.78	20.39	23.60	27.75	27.36	30.57	<=33	Pass
		Inner_Full	21.74	21.33	24.55	28.71	28.30	31.52	<=33	Pass
		Inner_1RB_Left	22.14	21.75	24.96	29.11	28.72	31.93	<=33	Pass
		Inner_1RB_Right	22.13	21.38	24.78	29.10	28.35	31.75	<=33	Pass
CP-OFDM 64 QAM	2516.01	Edge_1RB_Left	20.28	19.99	23.15	27.25	26.96	30.12	<=33	Pass
		Edge_1RB_Right	19.98	19.94	22.97	26.95	26.91	29.94	<=33	Pass
		Outer_Full	20.06	19.80	22.94	27.03	26.77	29.91	<=33	Pass
		Inner_Full	20.08	19.81	22.96	27.05	26.78	29.93	<=33	Pass
		Inner_1RB_Left	20.32	19.82	23.09	27.29	26.79	30.06	<=33	Pass
		Inner_1RB_Right	19.74	19.93	22.85	26.71	26.90	29.82	<=33	Pass
	2592.99	Edge_1RB_Left	20.05	19.97	23.02	27.02	26.94	29.99	<=33	Pass
		Edge_1RB_Right	20.52	20.06	23.31	27.49	27.03	30.28	<=33	Pass
		Outer_Full	20.43	19.88	23.17	27.40	26.85	30.14	<=33	Pass
		Inner_Full	20.48	19.95	23.23	27.45	26.92	30.20	<=33	Pass
		Inner_1RB_Left	20.26	19.90	23.09	27.23	26.87	30.06	<=33	Pass
		Inner_1RB_Right	20.38	19.94	23.18	27.35	26.91	30.15	<=33	Pass
	2670	Edge_1RB_Left	20.35	19.91	23.15	27.32	26.88	30.12	<=33	Pass
		Edge_1RB_Right	20.53	19.96	23.26	27.50	26.93	30.23	<=33	Pass
		Outer_Full	20.26	19.88	23.08	27.23	26.85	30.05	<=33	Pass
		Inner_Full	20.25	19.82	23.05	27.22	26.79	30.02	<=33	Pass
		Inner_1RB_Left	20.39	19.99	23.20	27.36	26.96	30.17	<=33	Pass
		Inner_1RB_Right	20.40	19.86	23.15	27.37	26.83	30.12	<=33	Pass
CP-OFDM 256 QAM	2516.01	Edge_1RB_Left	17.43	16.96	20.21	24.40	23.93	27.18	<=33	Pass
		Edge_1RB_Right	17.00	16.83	19.93	23.97	23.80	26.90	<=33	Pass
		Outer_Full	17.04	16.81	19.94	24.01	23.78	26.91	<=33	Pass
		Inner_Full	17.03	16.83	19.94	24.00	23.80	26.91	<=33	Pass
		Inner_1RB_Left	17.27	17.07	20.18	24.24	24.04	27.15	<=33	Pass
		Inner_1RB_Right	16.89	16.69	19.80	23.86	23.66	26.77	<=33	Pass
	2592.99	Edge_1RB_Left	17.20	16.91	20.07	24.17	23.88	27.04	<=33	Pass
		Edge_1RB_Right	17.50	17.03	20.28	24.47	24.00	27.25	<=33	Pass
		Outer_Full	17.44	16.95	20.21	24.41	23.92	27.18	<=33	Pass
		Inner_Full	17.37	16.93	20.17	24.34	23.90	27.14	<=33	Pass
		Inner_1RB_Left	17.30	16.86	20.10	24.27	23.83	27.07	<=33	Pass
		Inner_1RB_Right	17.48	16.99	20.25	24.45	23.96	27.22	<=33	Pass



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	2670	Edge_1RB_Left	17.28	17.02	20.16	24.25	23.99	27.13	<=33	Pass
		Edge_1RB_Right	17.44	16.85	20.17	24.41	23.82	27.14	<=33	Pass
		Outer_Full	17.48	16.91	20.21	24.45	23.88	27.18	<=33	Pass
		Inner_Full	17.40	16.90	20.17	24.37	23.87	27.14	<=33	Pass
		Inner_1RB_Left	17.62	16.70	20.19	24.59	23.67	27.16	<=33	Pass
		Inner_1RB_Right	17.53	17.07	20.32	24.50	24.04	27.29	<=33	Pass
Note1: Antenna Gain: Ant1: 6.97dBi; Ant2: 6.97dBi;										
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_50MHz_NTNV_EIRP

5G NR n41 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	2521.02	Edge_1RB_Left	20.23	19.84	23.05	27.20	26.81	30.02	<=33	Pass
		Edge_1RB_Right	20.29	19.90	23.11	27.26	26.87	30.08	<=33	Pass
		Outer_Full	20.49	20.36	23.44	27.46	27.33	30.41	<=33	Pass
		Inner_Full	21.96	21.72	24.85	28.93	28.69	31.82	<=33	Pass
		Inner_1RB_Left	22.17	21.86	25.03	29.14	28.83	32.00	<=33	Pass
		Inner_1RB_Right	22.28	21.87	25.09	29.25	28.84	32.06	<=33	Pass
	2592.99	Edge_1RB_Left	20.23	19.72	22.99	27.20	26.69	29.96	<=33	Pass
		Edge_1RB_Right	20.38	19.98	23.19	27.35	26.95	30.16	<=33	Pass
		Outer_Full	20.75	20.37	23.57	27.72	27.34	30.54	<=33	Pass
		Inner_Full	22.29	21.87	25.10	29.26	28.84	32.07	<=33	Pass
		Inner_1RB_Left	22.26	21.88	25.08	29.23	28.85	32.05	<=33	Pass
		Inner_1RB_Right	22.31	21.99	25.16	29.28	28.96	32.13	<=33	Pass
	2664.99	Edge_1RB_Left	20.41	19.87	23.16	27.38	26.84	30.13	<=33	Pass
		Edge_1RB_Right	20.37	19.87	23.14	27.34	26.84	30.11	<=33	Pass
		Outer_Full	20.80	20.38	23.61	27.77	27.35	30.58	<=33	Pass
		Inner_Full	22.24	21.77	25.02	29.21	28.74	31.99	<=33	Pass
		Inner_1RB_Left	22.47	21.87	25.19	29.44	28.84	32.16	<=33	Pass
		Inner_1RB_Right	22.32	21.76	25.06	29.29	28.73	32.03	<=33	Pass
CP-OFDM 16 QAM	2521.02	Edge_1RB_Left	20.27	19.85	23.08	27.24	26.82	30.05	<=33	Pass
		Edge_1RB_Right	20.44	19.81	23.15	27.41	26.78	30.12	<=33	Pass
		Outer_Full	20.56	20.27	23.43	27.53	27.24	30.40	<=33	Pass
		Inner_Full	21.49	21.27	24.39	28.46	28.24	31.36	<=33	Pass
		Inner_1RB_Left	21.57	21.33	24.46	28.54	28.30	31.43	<=33	Pass



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	2592.99	Inner_1RB_Right	21.98	21.23	24.63	28.95	28.20	31.60	<=33	Pass
		Edge_1RB_Left	20.31	19.69	23.02	27.28	26.66	29.99	<=33	Pass
		Edge_1RB_Right	20.58	19.92	23.27	27.55	26.89	30.24	<=33	Pass
		Outer_Full	20.76	20.44	23.61	27.73	27.41	30.58	<=33	Pass
		Inner_Full	21.76	21.35	24.57	28.73	28.32	31.54	<=33	Pass
		Inner_1RB_Left	21.63	21.23	24.44	28.60	28.20	31.41	<=33	Pass
		Inner_1RB_Right	21.85	21.56	24.72	28.82	28.53	31.69	<=33	Pass
	2664.99	Edge_1RB_Left	20.73	19.93	23.36	27.70	26.90	30.33	<=33	Pass
		Edge_1RB_Right	20.61	19.65	23.17	27.58	26.62	30.14	<=33	Pass
		Outer_Full	20.80	20.33	23.58	27.77	27.30	30.55	<=33	Pass
		Inner_Full	21.83	21.31	24.59	28.80	28.28	31.56	<=33	Pass
		Inner_1RB_Left	22.00	21.39	24.72	28.97	28.36	31.69	<=33	Pass
		Inner_1RB_Right	21.90	21.33	24.63	28.87	28.30	31.60	<=33	Pass
CP-OFDM 64 QAM	2521.02	Edge_1RB_Left	20.06	19.81	22.95	27.03	26.78	29.92	<=33	Pass
		Edge_1RB_Right	20.31	19.91	23.12	27.28	26.88	30.09	<=33	Pass
		Outer_Full	20.00	19.85	22.94	26.97	26.82	29.91	<=33	Pass
		Inner_Full	19.94	19.78	22.87	26.91	26.75	29.84	<=33	Pass
		Inner_1RB_Left	20.01	20.00	23.02	26.98	26.97	29.99	<=33	Pass
		Inner_1RB_Right	20.31	19.90	23.12	27.28	26.87	30.09	<=33	Pass
	2592.99	Edge_1RB_Left	20.24	19.73	23.00	27.21	26.70	29.97	<=33	Pass
		Edge_1RB_Right	20.31	20.03	23.18	27.28	27.00	30.15	<=33	Pass
		Outer_Full	20.31	19.78	23.06	27.28	26.75	30.03	<=33	Pass
		Inner_Full	20.39	19.83	23.13	27.36	26.80	30.10	<=33	Pass
		Inner_1RB_Left	20.19	19.75	22.99	27.16	26.72	29.96	<=33	Pass
		Inner_1RB_Right	20.46	20.11	23.30	27.43	27.08	30.27	<=33	Pass
	2664.99	Edge_1RB_Left	20.65	20.06	23.38	27.62	27.03	30.35	<=33	Pass
		Edge_1RB_Right	20.38	20.01	23.21	27.35	26.98	30.18	<=33	Pass
		Outer_Full	20.37	19.82	23.11	27.34	26.79	30.08	<=33	Pass
		Inner_Full	20.34	19.85	23.11	27.31	26.82	30.08	<=33	Pass
		Inner_1RB_Left	20.60	19.88	23.27	27.57	26.85	30.24	<=33	Pass
		Inner_1RB_Right	20.52	19.99	23.27	27.49	26.96	30.24	<=33	Pass
CP-OFDM 256 QAM	2521.02	Edge_1RB_Left	17.26	16.92	20.10	24.23	23.89	27.07	<=33	Pass
		Edge_1RB_Right	17.23	16.80	20.03	24.20	23.77	27.00	<=33	Pass
		Outer_Full	17.06	16.80	19.94	24.03	23.77	26.91	<=33	Pass
		Inner_Full	17.05	16.79	19.93	24.02	23.76	26.90	<=33	Pass
		Inner_1RB_Left	17.51	16.94	20.24	24.48	23.91	27.21	<=33	Pass
		Inner_1RB_Right	17.26	16.86	20.07	24.23	23.83	27.04	<=33	Pass
	2592.99	Edge_1RB_Left	17.14	16.77	19.97	24.11	23.74	26.94	<=33	Pass



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		Edge_1RB_Right	17.39	16.99	20.20	24.36	23.96	27.17	<=33	Pass
		Outer_Full	17.32	16.84	20.10	24.29	23.81	27.07	<=33	Pass
		Inner_Full	17.32	16.89	20.12	24.29	23.86	27.09	<=33	Pass
		Inner_1RB_Left	17.22	16.81	20.03	24.19	23.78	27.00	<=33	Pass
		Inner_1RB_Right	17.32	16.97	20.16	24.29	23.94	27.13	<=33	Pass
	2664.99	Edge_1RB_Left	17.60	16.82	20.24	24.57	23.79	27.21	<=33	Pass
		Edge_1RB_Right	17.49	16.94	20.23	24.46	23.91	27.20	<=33	Pass
		Outer_Full	17.51	16.85	20.20	24.48	23.82	27.17	<=33	Pass
		Inner_Full	17.32	16.79	20.07	24.29	23.76	27.04	<=33	Pass
		Inner_1RB_Left	17.49	17.05	20.29	24.46	24.02	27.26	<=33	Pass
		Inner_1RB_Right	17.50	16.91	20.23	24.47	23.88	27.20	<=33	Pass

Note1: Antenna Gain: Ant1: 6.97dBi; Ant2: 6.97dBi;
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_60MHz_NTNV_EIRP

5G NR n41 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	2526	Edge_1RB_Left	20.04	19.80	22.93	27.01	26.77	29.90	<=33	Pass
		Edge_1RB_Right	20.43	19.69	23.09	27.40	26.66	30.06	<=33	Pass
		Outer_Full	20.58	20.25	23.43	27.55	27.22	30.40	<=33	Pass
		Inner_Full	21.89	21.63	24.77	28.86	28.60	31.74	<=33	Pass
		Inner_1RB_Left	22.06	21.85	24.97	29.03	28.82	31.94	<=33	Pass
		Inner_1RB_Right	22.49	21.59	25.07	29.46	28.56	32.04	<=33	Pass
	2592.99	Edge_1RB_Left	20.39	19.71	23.07	27.36	26.68	30.04	<=33	Pass
		Edge_1RB_Right	20.35	19.85	23.12	27.32	26.82	30.09	<=33	Pass
		Outer_Full	20.82	20.39	23.62	27.79	27.36	30.59	<=33	Pass
		Inner_Full	22.35	21.88	25.13	29.32	28.85	32.10	<=33	Pass
		Inner_1RB_Left	22.34	22.07	25.22	29.31	29.04	32.19	<=33	Pass
		Inner_1RB_Right	22.31	21.85	25.10	29.28	28.82	32.07	<=33	Pass
	2659.98	Edge_1RB_Left	20.33	19.81	23.09	27.30	26.78	30.06	<=33	Pass
		Edge_1RB_Right	20.29	19.71	23.02	27.26	26.68	29.99	<=33	Pass
		Outer_Full	20.80	20.13	23.49	27.77	27.10	30.46	<=33	Pass
		Inner_Full	22.25	21.62	24.96	29.22	28.59	31.93	<=33	Pass
		Inner_1RB_Left	22.24	22.10	25.18	29.21	29.07	32.15	<=33	Pass
		Inner_1RB_Right	22.23	21.71	24.99	29.20	28.68	31.96	<=33	Pass



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CP-OFDM 16 QAM	2526	Edge_1RB_Left	20.30	19.62	22.98	27.27	26.59	29.95	<=33	Pass
		Edge_1RB_Right	20.49	19.56	23.06	27.46	26.53	30.03	<=33	Pass
		Outer_Full	20.55	20.22	23.40	27.52	27.19	30.37	<=33	Pass
		Inner_Full	21.36	21.10	24.24	28.33	28.07	31.21	<=33	Pass
		Inner_1RB_Left	21.46	21.35	24.42	28.43	28.32	31.39	<=33	Pass
		Inner_1RB_Right	22.06	21.07	24.60	29.03	28.04	31.57	<=33	Pass
	2592.99	Edge_1RB_Left	20.32	19.67	23.02	27.29	26.64	29.99	<=33	Pass
		Edge_1RB_Right	20.39	19.78	23.11	27.36	26.75	30.08	<=33	Pass
		Outer_Full	20.80	20.21	23.53	27.77	27.18	30.50	<=33	Pass
		Inner_Full	21.84	21.25	24.57	28.81	28.22	31.54	<=33	Pass
		Inner_1RB_Left	21.89	21.13	24.54	28.86	28.10	31.51	<=33	Pass
		Inner_1RB_Right	21.81	21.36	24.60	28.78	28.33	31.57	<=33	Pass
	2659.98	Edge_1RB_Left	20.38	19.81	23.11	27.35	26.78	30.08	<=33	Pass
		Edge_1RB_Right	20.42	19.60	23.04	27.39	26.57	30.01	<=33	Pass
		Outer_Full	20.76	20.18	23.49	27.73	27.15	30.46	<=33	Pass
		Inner_Full	21.79	21.17	24.50	28.76	28.14	31.47	<=33	Pass
		Inner_1RB_Left	21.91	21.14	24.55	28.88	28.11	31.52	<=33	Pass
		Inner_1RB_Right	21.81	21.26	24.55	28.78	28.23	31.52	<=33	Pass
CP-OFDM 64 QAM	2526	Edge_1RB_Left	20.14	19.85	23.01	27.11	26.82	29.98	<=33	Pass
		Edge_1RB_Right	20.39	19.78	23.11	27.36	26.75	30.08	<=33	Pass
		Outer_Full	20.03	19.73	22.89	27.00	26.70	29.86	<=33	Pass
		Inner_Full	19.89	19.65	22.78	26.86	26.62	29.75	<=33	Pass
		Inner_1RB_Left	20.31	19.69	23.02	27.28	26.66	29.99	<=33	Pass
		Inner_1RB_Right	20.45	19.69	23.10	27.42	26.66	30.07	<=33	Pass
	2592.99	Edge_1RB_Left	20.26	19.69	22.99	27.23	26.66	29.96	<=33	Pass
		Edge_1RB_Right	20.44	20.02	23.25	27.41	26.99	30.22	<=33	Pass
		Outer_Full	20.37	19.81	23.11	27.34	26.78	30.08	<=33	Pass
		Inner_Full	20.36	19.81	23.10	27.33	26.78	30.07	<=33	Pass
		Inner_1RB_Left	20.28	19.84	23.08	27.25	26.81	30.05	<=33	Pass
		Inner_1RB_Right	20.44	20.03	23.25	27.41	27.00	30.22	<=33	Pass
	2659.98	Edge_1RB_Left	20.53	19.85	23.21	27.50	26.82	30.18	<=33	Pass
		Edge_1RB_Right	20.24	19.75	23.01	27.21	26.72	29.98	<=33	Pass
		Outer_Full	20.37	19.70	23.06	27.34	26.67	30.03	<=33	Pass
		Inner_Full	20.34	19.69	23.04	27.31	26.66	30.01	<=33	Pass
		Inner_1RB_Left	20.46	19.89	23.19	27.43	26.86	30.16	<=33	Pass
		Inner_1RB_Right	20.11	19.61	22.88	27.08	26.58	29.85	<=33	Pass
CP-OFDM 256 QAM	2526	Edge_1RB_Left	17.24	16.67	19.97	24.21	23.64	26.94	<=33	Pass
		Edge_1RB_Right	17.44	16.50	20.01	24.41	23.47	26.98	<=33	Pass



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		Outer_Full	17.12	16.74	19.94	24.09	23.71	26.91	<=33	Pass
		Inner_Full	16.88	16.67	19.79	23.85	23.64	26.76	<=33	Pass
		Inner_1RB_Left	17.11	16.92	20.03	24.08	23.89	27.00	<=33	Pass
		Inner_1RB_Right	17.55	16.73	20.17	24.52	23.70	27.14	<=33	Pass
	2592.99	Edge_1RB_Left	17.44	16.65	20.07	24.41	23.62	27.04	<=33	Pass
		Edge_1RB_Right	17.49	16.85	20.19	24.46	23.82	27.16	<=33	Pass
		Outer_Full	17.35	16.87	20.13	24.32	23.84	27.10	<=33	Pass
		Inner_Full	17.30	16.84	20.09	24.27	23.81	27.06	<=33	Pass
		Inner_1RB_Left	17.57	16.56	20.10	24.54	23.53	27.07	<=33	Pass
		Inner_1RB_Right	17.56	17.17	20.38	24.53	24.14	27.35	<=33	Pass
	2659.98	Edge_1RB_Left	17.40	16.85	20.14	24.37	23.82	27.11	<=33	Pass
		Edge_1RB_Right	17.15	16.59	19.89	24.12	23.56	26.86	<=33	Pass
		Outer_Full	17.50	16.84	20.19	24.47	23.81	27.16	<=33	Pass
		Inner_Full	17.31	16.80	20.07	24.28	23.77	27.04	<=33	Pass
		Inner_1RB_Left	17.57	16.78	20.20	24.54	23.75	27.17	<=33	Pass
		Inner_1RB_Right	17.17	16.68	19.94	24.14	23.65	26.91	<=33	Pass

Note1: Antenna Gain: Ant1: 6.97dBi; Ant2: 6.97dBi;
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_80MHz_NTNV_EIRP

5G NR n41 SCS=30kHz MIMO 80MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	2536.02	Edge_1RB_Left	19.88	19.75	22.83	26.85	26.72	29.80	<=33	Pass
		Edge_1RB_Right	19.94	19.50	22.74	26.91	26.47	29.71	<=33	Pass
		Outer_Full	20.46	20.03	23.26	27.43	27.00	30.23	<=33	Pass
		Inner_Full	21.80	21.50	24.66	28.77	28.47	31.63	<=33	Pass
		Inner_1RB_Left	21.87	21.63	24.76	28.84	28.60	31.73	<=33	Pass
		Inner_1RB_Right	21.98	21.53	24.77	28.95	28.50	31.74	<=33	Pass
	2592.99	Edge_1RB_Left	20.23	19.74	23.00	27.20	26.71	29.97	<=33	Pass
		Edge_1RB_Right	20.22	19.94	23.09	27.19	26.91	30.06	<=33	Pass
		Outer_Full	20.65	20.25	23.46	27.62	27.22	30.43	<=33	Pass
		Inner_Full	22.07	21.65	24.88	29.04	28.62	31.85	<=33	Pass
		Inner_1RB_Left	22.16	21.72	24.96	29.13	28.69	31.93	<=33	Pass
		Inner_1RB_Right	22.24	21.92	25.09	29.21	28.89	32.06	<=33	Pass
	2649.99	Edge_1RB_Left	20.23	19.54	22.91	27.20	26.51	29.88	<=33	Pass



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		Edge_1RB_Right	20.10	19.57	22.85	27.07	26.54	29.82	<=33	Pass
		Outer_Full	20.61	20.11	23.38	27.58	27.08	30.35	<=33	Pass
		Inner_Full	22.16	21.63	24.91	29.13	28.60	31.88	<=33	Pass
		Inner_1RB_Left	22.09	21.57	24.85	29.06	28.54	31.82	<=33	Pass
		Inner_1RB_Right	22.10	21.43	24.79	29.07	28.40	31.76	<=33	Pass
CP-OFDM 16 QAM	2536.02	Edge_1RB_Left	19.90	19.51	22.72	26.87	26.48	29.69	<=33	Pass
		Edge_1RB_Right	19.98	19.49	22.75	26.95	26.46	29.72	<=33	Pass
		Outer_Full	20.38	20.01	23.21	27.35	26.98	30.18	<=33	Pass
		Inner_Full	21.30	20.95	24.14	28.27	27.92	31.11	<=33	Pass
		Inner_1RB_Left	21.68	20.99	24.36	28.65	27.96	31.33	<=33	Pass
		Inner_1RB_Right	21.35	21.20	24.29	28.32	28.17	31.26	<=33	Pass
	2592.99	Edge_1RB_Left	20.28	19.59	22.96	27.25	26.56	29.93	<=33	Pass
		Edge_1RB_Right	20.46	19.66	23.09	27.43	26.63	30.06	<=33	Pass
		Outer_Full	20.72	20.20	23.48	27.69	27.17	30.45	<=33	Pass
		Inner_Full	21.57	21.16	24.38	28.54	28.13	31.35	<=33	Pass
		Inner_1RB_Left	21.71	21.06	24.41	28.68	28.03	31.38	<=33	Pass
		Inner_1RB_Right	21.64	21.39	24.53	28.61	28.36	31.50	<=33	Pass
	2649.99	Edge_1RB_Left	20.18	19.60	22.91	27.15	26.57	29.88	<=33	Pass
		Edge_1RB_Right	20.20	19.32	22.79	27.17	26.29	29.76	<=33	Pass
		Outer_Full	20.60	20.24	23.43	27.57	27.21	30.40	<=33	Pass
		Inner_Full	21.64	21.10	24.39	28.61	28.07	31.36	<=33	Pass
		Inner_1RB_Left	21.79	21.05	24.45	28.76	28.02	31.42	<=33	Pass
		Inner_1RB_Right	21.71	20.98	24.37	28.68	27.95	31.34	<=33	Pass
CP-OFDM 64 QAM	2536.02	Edge_1RB_Left	19.76	19.56	22.67	26.73	26.53	29.64	<=33	Pass
		Edge_1RB_Right	19.86	19.47	22.68	26.83	26.44	29.65	<=33	Pass
		Outer_Full	19.96	19.55	22.77	26.93	26.52	29.74	<=33	Pass
		Inner_Full	19.81	19.48	22.66	26.78	26.45	29.63	<=33	Pass
		Inner_1RB_Left	20.06	20.01	23.05	27.03	26.98	30.02	<=33	Pass
		Inner_1RB_Right	20.25	19.47	22.89	27.22	26.44	29.86	<=33	Pass
	2592.99	Edge_1RB_Left	20.31	19.61	22.98	27.28	26.58	29.95	<=33	Pass
		Edge_1RB_Right	20.34	19.95	23.16	27.31	26.92	30.13	<=33	Pass
		Outer_Full	20.16	19.79	22.99	27.13	26.76	29.96	<=33	Pass
		Inner_Full	20.23	19.63	22.95	27.20	26.60	29.92	<=33	Pass
		Inner_1RB_Left	20.32	19.48	22.93	27.29	26.45	29.90	<=33	Pass
		Inner_1RB_Right	20.13	19.66	22.91	27.10	26.63	29.88	<=33	Pass
	2649.99	Edge_1RB_Left	20.17	19.57	22.89	27.14	26.54	29.86	<=33	Pass
		Edge_1RB_Right	20.25	19.31	22.82	27.22	26.28	29.79	<=33	Pass
		Outer_Full	20.13	19.73	22.94	27.10	26.70	29.91	<=33	Pass



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CP-OFDM 256 QAM		Inner_Full	20.16	19.66	22.93	27.13	26.63	29.90	<=33	Pass
		Inner_1RB_Left	20.15	19.64	22.91	27.12	26.61	29.88	<=33	Pass
		Inner_1RB_Right	20.30	19.44	22.90	27.27	26.41	29.87	<=33	Pass
	2536.02	Edge_1RB_Left	16.81	16.82	19.83	23.78	23.79	26.80	<=33	Pass
		Edge_1RB_Right	17.10	16.67	19.90	24.07	23.64	26.87	<=33	Pass
		Outer_Full	17.00	16.58	19.81	23.97	23.55	26.78	<=33	Pass
		Inner_Full	16.83	16.49	19.67	23.80	23.46	26.64	<=33	Pass
		Inner_1RB_Left	17.07	16.95	20.02	24.04	23.92	26.99	<=33	Pass
		Inner_1RB_Right	16.91	16.49	19.72	23.88	23.46	26.69	<=33	Pass
	2592.99	Edge_1RB_Left	17.39	16.58	20.01	24.36	23.55	26.98	<=33	Pass
		Edge_1RB_Right	17.48	16.96	20.24	24.45	23.93	27.21	<=33	Pass
		Outer_Full	17.21	16.66	19.95	24.18	23.63	26.92	<=33	Pass
		Inner_Full	17.11	16.67	19.91	24.08	23.64	26.88	<=33	Pass
		Inner_1RB_Left	17.27	16.66	19.99	24.24	23.63	26.96	<=33	Pass
		Inner_1RB_Right	17.38	16.88	20.15	24.35	23.85	27.12	<=33	Pass
	2649.99	Edge_1RB_Left	17.05	16.42	19.76	24.02	23.39	26.73	<=33	Pass
		Edge_1RB_Right	17.40	16.56	20.01	24.37	23.53	26.98	<=33	Pass
		Outer_Full	17.12	16.78	19.96	24.09	23.75	26.93	<=33	Pass
		Inner_Full	17.22	16.79	20.02	24.19	23.76	26.99	<=33	Pass
		Inner_1RB_Left	17.37	16.69	20.05	24.34	23.66	27.02	<=33	Pass
		Inner_1RB_Right	17.11	16.35	19.76	24.08	23.32	26.73	<=33	Pass

Note1: Antenna Gain: Ant1: 6.97dBi; Ant2: 6.97dBi;
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_90MHz_NTNV_EIRP

5G NR n41 SCS=30kHz MIMO 90MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	2541	Edge_1RB_Left	19.94	19.68	22.82	26.91	26.65	29.79	<=33	Pass
		Edge_1RB_Right	20.07	19.56	22.83	27.04	26.53	29.80	<=33	Pass
		Outer_Full	20.52	20.06	23.31	27.49	27.03	30.28	<=33	Pass
		Inner_Full	22.00	21.53	24.78	28.97	28.50	31.75	<=33	Pass
		Inner_1RB_Left	21.98	21.67	24.84	28.95	28.64	31.81	<=33	Pass
		Inner_1RB_Right	22.13	21.61	24.89	29.10	28.58	31.86	<=33	Pass
	2592.99	Edge_1RB_Left	20.02	19.73	22.89	26.99	26.70	29.86	<=33	Pass
		Edge_1RB_Right	20.38	19.82	23.12	27.35	26.79	30.09	<=33	Pass



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		Outer_Full	20.65	20.23	23.46	27.62	27.20	30.43	<=33	Pass
		Inner_Full	22.05	21.71	24.89	29.02	28.68	31.86	<=33	Pass
		Inner_1RB_Left	22.12	21.69	24.92	29.09	28.66	31.89	<=33	Pass
		Inner_1RB_Right	22.35	21.95	25.16	29.32	28.92	32.13	<=33	Pass
	2644.98	Edge_1RB_Left	20.17	19.60	22.90	27.14	26.57	29.87	<=33	Pass
		Edge_1RB_Right	20.42	19.54	23.01	27.39	26.51	29.98	<=33	Pass
		Outer_Full	20.68	20.25	23.48	27.65	27.22	30.45	<=33	Pass
		Inner_Full	22.25	21.77	25.03	29.22	28.74	32.00	<=33	Pass
		Inner_1RB_Left	22.20	21.55	24.90	29.17	28.52	31.87	<=33	Pass
		Inner_1RB_Right	22.28	21.53	24.93	29.25	28.50	31.90	<=33	Pass
CP-OFDM 16 QAM	2541	Edge_1RB_Left	20.18	19.65	22.93	27.15	26.62	29.90	<=33	Pass
		Edge_1RB_Right	19.90	19.51	22.72	26.87	26.48	29.69	<=33	Pass
		Outer_Full	20.49	20.09	23.30	27.46	27.06	30.27	<=33	Pass
		Inner_Full	21.45	21.06	24.27	28.42	28.03	31.24	<=33	Pass
		Inner_1RB_Left	21.60	21.03	24.33	28.57	28.00	31.30	<=33	Pass
		Inner_1RB_Right	21.63	21.20	24.43	28.60	28.17	31.40	<=33	Pass
	2592.99	Edge_1RB_Left	20.17	19.54	22.88	27.14	26.51	29.85	<=33	Pass
		Edge_1RB_Right	20.43	19.83	23.15	27.40	26.80	30.12	<=33	Pass
		Outer_Full	20.68	20.18	23.45	27.65	27.15	30.42	<=33	Pass
		Inner_Full	21.63	21.08	24.37	28.60	28.05	31.34	<=33	Pass
		Inner_1RB_Left	21.41	21.06	24.25	28.38	28.03	31.22	<=33	Pass
		Inner_1RB_Right	21.80	21.14	24.49	28.77	28.11	31.46	<=33	Pass
	2644.98	Edge_1RB_Left	20.19	19.67	22.95	27.16	26.64	29.92	<=33	Pass
		Edge_1RB_Right	20.32	19.64	23.00	27.29	26.61	29.97	<=33	Pass
		Outer_Full	20.74	20.28	23.53	27.71	27.25	30.50	<=33	Pass
		Inner_Full	21.71	21.27	24.51	28.68	28.24	31.48	<=33	Pass
		Inner_1RB_Left	21.67	21.18	24.44	28.64	28.15	31.41	<=33	Pass
		Inner_1RB_Right	21.94	21.00	24.51	28.91	27.97	31.48	<=33	Pass
CP-OFDM 64 QAM	2541	Edge_1RB_Left	19.97	19.62	22.81	26.94	26.59	29.78	<=33	Pass
		Edge_1RB_Right	20.13	19.51	22.84	27.10	26.48	29.81	<=33	Pass
		Outer_Full	20.00	19.54	22.79	26.97	26.51	29.76	<=33	Pass
		Inner_Full	19.99	19.54	22.78	26.96	26.51	29.75	<=33	Pass
		Inner_1RB_Left	20.03	19.75	22.90	27.00	26.72	29.87	<=33	Pass
		Inner_1RB_Right	20.40	19.66	23.06	27.37	26.63	30.03	<=33	Pass
	2592.99	Edge_1RB_Left	20.10	19.63	22.88	27.07	26.60	29.85	<=33	Pass
		Edge_1RB_Right	20.14	19.77	22.97	27.11	26.74	29.94	<=33	Pass
		Outer_Full	20.20	19.70	22.97	27.17	26.67	29.94	<=33	Pass
		Inner_Full	20.16	19.61	22.90	27.13	26.58	29.87	<=33	Pass



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		Inner_1RB_Left	20.11	19.48	22.82	27.08	26.45	29.79	<=33	Pass
		Inner_1RB_Right	20.60	19.76	23.21	27.57	26.73	30.18	<=33	Pass
	2644.98	Edge_1RB_Left	20.16	19.61	22.90	27.13	26.58	29.87	<=33	Pass
		Edge_1RB_Right	20.27	19.64	22.98	27.24	26.61	29.95	<=33	Pass
		Outer_Full	20.22	19.76	23.01	27.19	26.73	29.98	<=33	Pass
		Inner_Full	20.28	19.77	23.04	27.25	26.74	30.01	<=33	Pass
		Inner_1RB_Left	20.20	19.57	22.91	27.17	26.54	29.88	<=33	Pass
		Inner_1RB_Right	20.20	19.72	22.98	27.17	26.69	29.95	<=33	Pass
CP-OFDM 256 QAM	2541	Edge_1RB_Left	17.11	16.72	19.93	24.08	23.69	26.90	<=33	Pass
		Edge_1RB_Right	17.11	16.57	19.86	24.08	23.54	26.83	<=33	Pass
		Outer_Full	17.04	16.61	19.84	24.01	23.58	26.81	<=33	Pass
		Inner_Full	17.09	16.54	19.83	24.06	23.51	26.80	<=33	Pass
		Inner_1RB_Left	16.91	16.78	19.86	23.88	23.75	26.83	<=33	Pass
		Inner_1RB_Right	16.94	16.64	19.80	23.91	23.61	26.77	<=33	Pass
	2592.99	Edge_1RB_Left	17.29	16.64	19.99	24.26	23.61	26.96	<=33	Pass
		Edge_1RB_Right	17.37	16.66	20.04	24.34	23.63	27.01	<=33	Pass
		Outer_Full	17.27	16.74	20.02	24.24	23.71	26.99	<=33	Pass
		Inner_Full	17.29	16.65	19.99	24.26	23.62	26.96	<=33	Pass
		Inner_1RB_Left	17.18	16.75	19.98	24.15	23.72	26.95	<=33	Pass
		Inner_1RB_Right	17.42	16.81	20.14	24.39	23.78	27.11	<=33	Pass
	2644.98	Edge_1RB_Left	17.41	16.48	19.98	24.38	23.45	26.95	<=33	Pass
		Edge_1RB_Right	17.41	16.74	20.10	24.38	23.71	27.07	<=33	Pass
		Outer_Full	17.33	16.77	20.07	24.30	23.74	27.04	<=33	Pass
		Inner_Full	17.29	16.81	20.07	24.26	23.78	27.04	<=33	Pass
		Inner_1RB_Left	17.66	16.61	20.18	24.63	23.58	27.15	<=33	Pass
		Inner_1RB_Right	17.19	16.68	19.95	24.16	23.65	26.92	<=33	Pass
Note1: Antenna Gain: Ant1: 6.97dBi; Ant2: 6.97dBi;										
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										

1.1.7 30k_MIMO_100MHz_NTNV_EIRP

5G NR n41 SCS=30kHz MIMO 100MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	2546.01	Edge_1RB_Left	19.92	19.79	22.87	26.89	26.76	29.84	<=33	Pass
		Edge_1RB_Right	20.33	19.69	23.03	27.30	26.66	30.00	<=33	Pass
		Outer_Full	20.55	20.03	23.31	27.52	27.00	30.28	<=33	Pass



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		Inner_Full	21.95	21.40	24.69	28.92	28.37	31.66	<=33	Pass
		Inner_1RB_Left	21.96	21.71	24.85	28.93	28.68	31.82	<=33	Pass
		Inner_1RB_Right	22.29	21.69	25.01	29.26	28.66	31.98	<=33	Pass
	2592.99	Edge_1RB_Left	19.87	19.57	22.73	26.84	26.54	29.70	<=33	Pass
		Edge_1RB_Right	20.30	19.77	23.05	27.27	26.74	30.02	<=33	Pass
		Outer_Full	20.79	20.13	23.48	27.76	27.10	30.45	<=33	Pass
		Inner_Full	22.10	21.71	24.92	29.07	28.68	31.89	<=33	Pass
		Inner_1RB_Left	22.02	21.50	24.78	28.99	28.47	31.75	<=33	Pass
		Inner_1RB_Right	22.51	22.06	25.30	29.48	29.03	32.27	<=33	Pass
	2640	Edge_1RB_Left	20.08	19.64	22.88	27.05	26.61	29.85	<=33	Pass
		Edge_1RB_Right	20.19	19.62	22.92	27.16	26.59	29.89	<=33	Pass
		Outer_Full	20.83	20.17	23.52	27.80	27.14	30.49	<=33	Pass
		Inner_Full	22.20	21.61	24.93	29.17	28.58	31.90	<=33	Pass
		Inner_1RB_Left	22.05	21.66	24.87	29.02	28.63	31.84	<=33	Pass
		Inner_1RB_Right	22.21	21.52	24.89	29.18	28.49	31.86	<=33	Pass
CP-OFDM 16 QAM	2546.01	Edge_1RB_Left	20.11	19.68	22.91	27.08	26.65	29.88	<=33	Pass
		Edge_1RB_Right	20.08	19.63	22.87	27.05	26.60	29.84	<=33	Pass
		Outer_Full	20.51	20.03	23.29	27.48	27.00	30.26	<=33	Pass
		Inner_Full	21.47	20.90	24.20	28.44	27.87	31.17	<=33	Pass
		Inner_1RB_Left	21.52	21.29	24.42	28.49	28.26	31.39	<=33	Pass
		Inner_1RB_Right	21.69	21.11	24.42	28.66	28.08	31.39	<=33	Pass
	2592.99	Edge_1RB_Left	20.25	19.74	23.01	27.22	26.71	29.98	<=33	Pass
		Edge_1RB_Right	20.27	19.81	23.06	27.24	26.78	30.03	<=33	Pass
		Outer_Full	20.75	20.12	23.46	27.72	27.09	30.43	<=33	Pass
		Inner_Full	21.65	21.16	24.42	28.62	28.13	31.39	<=33	Pass
		Inner_1RB_Left	21.40	21.22	24.32	28.37	28.19	31.29	<=33	Pass
		Inner_1RB_Right	21.99	21.18	24.61	28.96	28.15	31.58	<=33	Pass
	2640	Edge_1RB_Left	20.06	19.58	22.84	27.03	26.55	29.81	<=33	Pass
		Edge_1RB_Right	20.13	19.54	22.86	27.10	26.51	29.83	<=33	Pass
		Outer_Full	20.67	20.18	23.44	27.64	27.15	30.41	<=33	Pass
		Inner_Full	21.67	21.25	24.48	28.64	28.22	31.45	<=33	Pass
		Inner_1RB_Left	21.76	21.14	24.47	28.73	28.11	31.44	<=33	Pass
		Inner_1RB_Right	21.82	21.14	24.50	28.79	28.11	31.47	<=33	Pass
CP-OFDM 64 QAM	2546.01	Edge_1RB_Left	20.15	19.72	22.95	27.12	26.69	29.92	<=33	Pass
		Edge_1RB_Right	20.30	19.87	23.10	27.27	26.84	30.07	<=33	Pass
		Outer_Full	19.97	19.52	22.76	26.94	26.49	29.73	<=33	Pass
		Inner_Full	20.10	19.43	22.79	27.07	26.40	29.76	<=33	Pass
		Inner_1RB_Left	20.08	19.82	22.96	27.05	26.79	29.93	<=33	Pass



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		Inner_1RB_Right	20.10	19.70	22.91	27.07	26.67	29.88	<=33	Pass
	2592.99	Edge_1RB_Left	19.93	19.56	22.76	26.90	26.53	29.73	<=33	Pass
		Edge_1RB_Right	20.42	19.88	23.17	27.39	26.85	30.14	<=33	Pass
		Outer_Full	20.15	19.66	22.92	27.12	26.63	29.89	<=33	Pass
		Inner_Full	20.19	19.66	22.94	27.16	26.63	29.91	<=33	Pass
		Inner_1RB_Left	20.08	19.58	22.85	27.05	26.55	29.82	<=33	Pass
		Inner_1RB_Right	20.44	19.78	23.13	27.41	26.75	30.10	<=33	Pass
		2640	Edge_1RB_Left	20.11	19.66	22.90	27.08	26.63	29.87	<=33
	Edge_1RB_Right		20.20	19.49	22.87	27.17	26.46	29.84	<=33	Pass
	Outer_Full		20.17	19.72	22.96	27.14	26.69	29.93	<=33	Pass
	Inner_Full		20.27	19.79	23.05	27.24	26.76	30.02	<=33	Pass
	Inner_1RB_Left		20.04	19.69	22.88	27.01	26.66	29.85	<=33	Pass
	Inner_1RB_Right		20.35	19.45	22.93	27.32	26.42	29.90	<=33	Pass
	CP-OFDM 256 QAM	2546.01	Edge_1RB_Left	17.17	16.59	19.90	24.14	23.56	26.87	<=33
Edge_1RB_Right			17.27	16.72	20.01	24.24	23.69	26.98	<=33	Pass
Outer_Full			17.17	16.60	19.90	24.14	23.57	26.87	<=33	Pass
Inner_Full			17.17	16.50	19.86	24.14	23.47	26.83	<=33	Pass
Inner_1RB_Left			17.11	16.57	19.86	24.08	23.54	26.83	<=33	Pass
Inner_1RB_Right			17.24	16.70	19.99	24.21	23.67	26.96	<=33	Pass
2592.99		Edge_1RB_Left	16.91	16.46	19.70	23.88	23.43	26.67	<=33	Pass
		Edge_1RB_Right	17.23	16.79	20.03	24.20	23.76	27.00	<=33	Pass
		Outer_Full	17.22	16.70	19.98	24.19	23.67	26.95	<=33	Pass
		Inner_Full	17.18	16.67	19.94	24.15	23.64	26.91	<=33	Pass
		Inner_1RB_Left	16.85	16.64	19.76	23.82	23.61	26.73	<=33	Pass
		Inner_1RB_Right	17.27	16.71	20.01	24.24	23.68	26.98	<=33	Pass
2640		Edge_1RB_Left	17.46	16.63	20.08	24.43	23.60	27.05	<=33	Pass
		Edge_1RB_Right	17.07	16.38	19.75	24.04	23.35	26.72	<=33	Pass
		Outer_Full	17.15	16.83	20.00	24.12	23.80	26.97	<=33	Pass
		Inner_Full	17.23	16.73	20.00	24.20	23.70	26.97	<=33	Pass
		Inner_1RB_Left	17.22	16.56	19.91	24.19	23.53	26.88	<=33	Pass
		Inner_1RB_Right	17.03	16.44	19.76	24.00	23.41	26.73	<=33	Pass
Note1: Antenna Gain: Ant1: 6.97dBi; Ant2: 6.97dBi;										
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



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2.1 Test Result

2.1.1 30k_SISO_100MHz

5G NR n41 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	2592.99	Outer_Full	20	LV	-14.60	-0.0056	>=-2.5 & <=2.5	Pass
				HV	-11.40	-0.0044	>=-2.5 & <=2.5	Pass
			-30	NV	-17.40	-0.0067	>=-2.5 & <=2.5	Pass
			-20	NV	-16.00	-0.0062	>=-2.5 & <=2.5	Pass
			-10	NV	-15.90	-0.0061	>=-2.5 & <=2.5	Pass
			0	NV	-9.90	-0.0038	>=-2.5 & <=2.5	Pass
			10	NV	-14.50	-0.0056	>=-2.5 & <=2.5	Pass
			20	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
			40	NV	-10.30	-0.0040	>=-2.5 & <=2.5	Pass
			50	NV	-12.60	-0.0049	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2592.99	Outer_Full	20	LV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
				HV	-16.80	-0.0065	>=-2.5 & <=2.5	Pass
			-30	NV	-18.90	-0.0073	>=-2.5 & <=2.5	Pass
			-20	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-11.10	-0.0043	>=-2.5 & <=2.5	Pass
			20	NV	-13.40	-0.0052	>=-2.5 & <=2.5	Pass
			30	NV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-11.50	-0.0044	>=-2.5 & <=2.5	Pass
			-10	NV	-18.10	-0.0070	>=-2.5 & <=2.5	Pass
			0	NV	3.40	0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-11.50	-0.0044	>=-2.5 & <=2.5	Pass
			20	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-16.00	-0.0062	>=-2.5 & <=2.5	Pass



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			40	NV	-8.20	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-5.20	-0.0020	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-13.50	-0.0052	≥ -2.5 & ≤ 2.5	Pass
				HV	-8.00	-0.0031	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-5.10	-0.0020	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-5.50	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-3.50	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-12.20	-0.0047	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-13.40	-0.0052	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-11.30	-0.0044	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-19.50	-0.0075	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-9.40	-0.0036	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-20.00	-0.0077	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-3.20	-0.0012	≥ -2.5 & ≤ 2.5	Pass
				HV	-13.40	-0.0052	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-8.50	-0.0033	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-14.10	-0.0054	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-7.50	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-17.30	-0.0067	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-11.30	-0.0044	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-8.30	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-9.40	-0.0036	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-10.30	-0.0040	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-19.00	-0.0073	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM QPSK	2592.99	Outer_Full	20	LV	-16.20	-0.0062	≥ -2.5 & ≤ 2.5	Pass
				HV	-11.00	-0.0042	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-3.60	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	4.70	0.0018	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-12.10	-0.0047	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-5.70	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-10.60	-0.0041	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-6.70	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-10.60	-0.0041	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-15.70	-0.0061	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-14.80	-0.0057	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-8.10	-0.0031	≥ -2.5 & ≤ 2.5	Pass
				HV	-10.00	-0.0039	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-8.40	-0.0032	≥ -2.5 & ≤ 2.5	Pass



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			-20	NV	-4.60	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-11.50	-0.0044	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-11.80	-0.0046	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-12.40	-0.0048	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-12.40	-0.0048	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-6.90	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-6.40	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-18.90	-0.0073	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-6.20	-0.0024	≥ -2.5 & ≤ 2.5	Pass
				HV	-7.00	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-7.10	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-14.80	-0.0057	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-14.00	-0.0054	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-5.20	-0.0020	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-6.40	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-3.50	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-5.60	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-12.60	-0.0049	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-11.40	-0.0044	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-10.30	-0.0040	≥ -2.5 & ≤ 2.5	Pass
				HV	-9.30	-0.0036	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-13.30	-0.0051	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-10.10	-0.0039	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-11.40	-0.0044	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-4.20	-0.0016	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-9.50	-0.0037	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-13.40	-0.0052	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-4.30	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-13.50	-0.0052	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-8.90	-0.0034	≥ -2.5 & ≤ 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 30k_SISO_20MHz_NTNV

5G NR n41 SCS=30kHz SISO 20MHz 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	2506.02	Outer_Full	18.13	19.84	/	Pass
	2592.99	Outer_Full	18.13	19.95	/	Pass
	2679.99	Outer_Full	18.14	19.98	/	Pass
DFT-s-OFDM QPSK	2506.02	Outer_Full	18.14	19.78	/	Pass
	2592.99	Outer_Full	18.11	20.15	/	Pass
	2679.99	Outer_Full	18.12	20.04	/	Pass
DFT-s-OFDM 16 QAM	2506.02	Outer_Full	18.09	19.99	/	Pass
	2592.99	Outer_Full	18.14	19.73	/	Pass
	2679.99	Outer_Full	18.13	20.11	/	Pass
DFT-s-OFDM 64 QAM	2506.02	Outer_Full	18.08	20.00	/	Pass
	2592.99	Outer_Full	18.11	20.22	/	Pass
	2679.99	Outer_Full	18.19	20.25	/	Pass
DFT-s-OFDM 256 QAM	2506.02	Outer_Full	18.17	19.91	/	Pass
	2592.99	Outer_Full	18.13	20.15	/	Pass
	2679.99	Outer_Full	18.11	19.58	/	Pass
CP-OFDM QPSK	2506.02	Outer_Full	18.47	20.65	/	Pass
	2592.99	Outer_Full	18.50	20.93	/	Pass
	2679.99	Outer_Full	18.47	20.58	/	Pass
CP-OFDM 16 QAM	2506.02	Outer_Full	18.47	21.70	/	Pass
	2592.99	Outer_Full	18.46	21.21	/	Pass
	2679.99	Outer_Full	18.46	23.16	/	Pass
CP-OFDM 64 QAM	2506.02	Outer_Full	18.47	20.35	/	Pass
	2592.99	Outer_Full	18.50	20.62	/	Pass
	2679.99	Outer_Full	18.48	20.43	/	Pass
CP-OFDM 256 QAM	2506.02	Outer_Full	18.44	20.30	/	Pass
	2592.99	Outer_Full	18.43	20.05	/	Pass
	2679.99	Outer_Full	18.43	20.45	/	Pass

3.1.2 30k_SISO_40MHz_NTNV

5G NR n41 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	2516.01	Outer_Full	36.00	38.80	/	Pass
	2592.99	Outer_Full	36.13	39.06	/	Pass
	2670	Outer_Full	36.00	38.80	/	Pass



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DFT-s-OFDM QPSK	2516.01	Outer_Full	35.98	38.83	/	Pass
	2592.99	Outer_Full	36.14	38.84	/	Pass
	2670	Outer_Full	35.98	39.01	/	Pass
DFT-s-OFDM 16 QAM	2516.01	Outer_Full	36.17	38.25	/	Pass
	2592.99	Outer_Full	36.00	38.88	/	Pass
	2670	Outer_Full	36.05	38.80	/	Pass
DFT-s-OFDM 64 QAM	2516.01	Outer_Full	36.01	38.88	/	Pass
	2592.99	Outer_Full	36.18	38.85	/	Pass
	2670	Outer_Full	36.06	38.80	/	Pass
DFT-s-OFDM 256 QAM	2516.01	Outer_Full	36.00	38.78	/	Pass
	2592.99	Outer_Full	36.12	39.08	/	Pass
	2670	Outer_Full	36.02	38.83	/	Pass
CP-OFDM QPSK	2516.01	Outer_Full	38.08	40.99	/	Pass
	2592.99	Outer_Full	38.24	41.08	/	Pass
	2670	Outer_Full	38.17	41.35	/	Pass
CP-OFDM 16 QAM	2516.01	Outer_Full	38.15	40.96	/	Pass
	2592.99	Outer_Full	38.21	41.05	/	Pass
	2670	Outer_Full	38.17	40.95	/	Pass
CP-OFDM 64 QAM	2516.01	Outer_Full	38.05	40.85	/	Pass
	2592.99	Outer_Full	38.24	40.90	/	Pass
	2670	Outer_Full	38.21	41.04	/	Pass
CP-OFDM 256 QAM	2516.01	Outer_Full	38.23	41.29	/	Pass
	2592.99	Outer_Full	38.22	40.13	/	Pass
	2670	Outer_Full	38.21	40.28	/	Pass

3.1.3 30k_SISO_50MHz_NTNV

5G NR n41 SCS=30kHz SISO 50MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2521.02	Outer_Full	46.04	49.30	/	Pass
	2592.99	Outer_Full	46.26	49.42	/	Pass
	2664.99	Outer_Full	46.25	49.25	/	Pass
DFT-s-OFDM QPSK	2521.02	Outer_Full	46.08	49.50	/	Pass
	2592.99	Outer_Full	46.20	49.54	/	Pass
	2664.99	Outer_Full	46.19	49.66	/	Pass
DFT-s-OFDM 16 QAM	2521.02	Outer_Full	46.13	49.54	/	Pass
	2592.99	Outer_Full	46.18	49.48	/	Pass



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	2664.99	Outer_Full	46.25	49.47	/	Pass
DFT-s-OFDM 64 QAM	2521.02	Outer_Full	46.08	49.49	/	Pass
	2592.99	Outer_Full	46.15	49.41	/	Pass
	2664.99	Outer_Full	46.33	49.49	/	Pass
DFT-s-OFDM 256 QAM	2521.02	Outer_Full	46.07	49.30	/	Pass
	2592.99	Outer_Full	46.15	49.50	/	Pass
	2664.99	Outer_Full	46.17	49.33	/	Pass
CP-OFDM QPSK	2521.02	Outer_Full	47.90	51.20	/	Pass
	2592.99	Outer_Full	48.00	51.34	/	Pass
	2664.99	Outer_Full	47.98	51.22	/	Pass
CP-OFDM 16 QAM	2521.02	Outer_Full	47.94	51.24	/	Pass
	2592.99	Outer_Full	47.95	51.16	/	Pass
	2664.99	Outer_Full	47.93	51.43	/	Pass
CP-OFDM 64 QAM	2521.02	Outer_Full	47.86	51.24	/	Pass
	2592.99	Outer_Full	47.95	51.25	/	Pass
	2664.99	Outer_Full	47.91	51.35	/	Pass
CP-OFDM 256 QAM	2521.02	Outer_Full	47.79	51.10	/	Pass
	2592.99	Outer_Full	47.91	51.36	/	Pass
	2664.99	Outer_Full	47.84	51.40	/	Pass

3.1.4 30k_SISO_60MHz_NTNV

5G NR n41 SCS=30kHz SISO 60MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2526	Outer_Full	58.29	62.24	/	Pass
	2592.99	Outer_Full	58.40	62.30	/	Pass
	2659.98	Outer_Full	58.41	62.23	/	Pass
DFT-s-OFDM QPSK	2526	Outer_Full	58.48	62.40	/	Pass
	2592.99	Outer_Full	57.83	61.82	/	Pass
	2659.98	Outer_Full	58.41	62.31	/	Pass
DFT-s-OFDM 16 QAM	2526	Outer_Full	58.32	62.37	/	Pass
	2592.99	Outer_Full	58.33	62.38	/	Pass
	2659.98	Outer_Full	58.25	62.38	/	Pass
DFT-s-OFDM 64 QAM	2526	Outer_Full	58.36	62.32	/	Pass
	2592.99	Outer_Full	58.34	62.28	/	Pass
	2659.98	Outer_Full	58.36	62.43	/	Pass
DFT-s-OFDM 256 QAM	2526	Outer_Full	58.28	62.25	/	Pass



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	2592.99	Outer_Full	58.21	62.10	/	Pass
	2659.98	Outer_Full	58.43	62.45	/	Pass
CP-OFDM QPSK	2526	Outer_Full	58.38	62.35	/	Pass
	2592.99	Outer_Full	58.53	62.25	/	Pass
	2659.98	Outer_Full	58.31	62.33	/	Pass
CP-OFDM 16 QAM	2526	Outer_Full	58.38	62.16	/	Pass
	2592.99	Outer_Full	58.39	62.27	/	Pass
	2659.98	Outer_Full	58.39	62.45	/	Pass
CP-OFDM 64 QAM	2526	Outer_Full	58.45	64.38	/	Pass
	2592.99	Outer_Full	58.37	63.54	/	Pass
	2659.98	Outer_Full	58.33	62.44	/	Pass
CP-OFDM 256 QAM	2526	Outer_Full	58.41	62.23	/	Pass
	2592.99	Outer_Full	58.41	62.39	/	Pass
	2659.98	Outer_Full	58.33	62.46	/	Pass

3.1.5 30k_SISO_80MHz_NTNV

5G NR n41 SCS=30kHz SISO 80MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2536.02	Outer_Full	77.83	83.05	/	Pass
	2592.99	Outer_Full	77.78	83.09	/	Pass
	2649.99	Outer_Full	77.81	83.10	/	Pass
DFT-s-OFDM QPSK	2536.02	Outer_Full	77.91	83.15	/	Pass
	2592.99	Outer_Full	77.89	83.11	/	Pass
	2649.99	Outer_Full	77.86	83.40	/	Pass
DFT-s-OFDM 16 QAM	2536.02	Outer_Full	77.77	83.08	/	Pass
	2592.99	Outer_Full	77.70	83.24	/	Pass
	2649.99	Outer_Full	77.79	83.33	/	Pass
DFT-s-OFDM 64 QAM	2536.02	Outer_Full	77.80	82.97	/	Pass
	2592.99	Outer_Full	77.77	83.07	/	Pass
	2649.99	Outer_Full	77.77	83.05	/	Pass
DFT-s-OFDM 256 QAM	2536.02	Outer_Full	77.79	83.00	/	Pass
	2592.99	Outer_Full	78.43	82.10	/	Pass
	2649.99	Outer_Full	78.00	83.17	/	Pass
CP-OFDM QPSK	2536.02	Outer_Full	78.13	83.47	/	Pass
	2592.99	Outer_Full	77.88	83.41	/	Pass
	2649.99	Outer_Full	78.16	83.65	/	Pass



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CP-OFDM 16 QAM	2536.02	Outer_Full	78.45	83.57	/	Pass
	2592.99	Outer_Full	78.11	83.22	/	Pass
	2649.99	Outer_Full	78.25	83.09	/	Pass
CP-OFDM 64 QAM	2536.02	Outer_Full	78.08	83.43	/	Pass
	2592.99	Outer_Full	78.08	83.57	/	Pass
	2649.99	Outer_Full	78.09	89.94	/	Pass
CP-OFDM 256 QAM	2536.02	Outer_Full	78.11	83.40	/	Pass
	2592.99	Outer_Full	78.08	83.22	/	Pass
	2649.99	Outer_Full	78.04	83.41	/	Pass

3.1.6 30k_SISO_90MHz_NTNV

5G NR n41 SCS=30kHz SISO 90MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2541	Outer_Full	87.26	93.27	/	Pass
	2592.99	Outer_Full	87.48	93.20	/	Pass
	2644.98	Outer_Full	87.55	93.35	/	Pass
DFT-s-OFDM QPSK	2541	Outer_Full	87.54	93.39	/	Pass
	2592.99	Outer_Full	87.36	93.35	/	Pass
	2644.98	Outer_Full	87.56	93.65	/	Pass
DFT-s-OFDM 16 QAM	2541	Outer_Full	87.52	93.01	/	Pass
	2592.99	Outer_Full	87.44	93.44	/	Pass
	2644.98	Outer_Full	87.69	93.50	/	Pass
DFT-s-OFDM 64 QAM	2541	Outer_Full	87.48	93.28	/	Pass
	2592.99	Outer_Full	87.35	93.36	/	Pass
	2644.98	Outer_Full	87.61	93.46	/	Pass
DFT-s-OFDM 256 QAM	2541	Outer_Full	87.44	93.05	/	Pass
	2592.99	Outer_Full	87.36	93.53	/	Pass
	2644.98	Outer_Full	87.45	93.25	/	Pass
CP-OFDM QPSK	2541	Outer_Full	88.10	94.16	/	Pass
	2592.99	Outer_Full	87.99	94.03	/	Pass
	2644.98	Outer_Full	88.23	94.12	/	Pass
CP-OFDM 16 QAM	2541	Outer_Full	88.51	92.99	/	Pass
	2592.99	Outer_Full	88.09	93.93	/	Pass
	2644.98	Outer_Full	88.36	94.55	/	Pass
CP-OFDM 64 QAM	2541	Outer_Full	88.15	93.94	/	Pass
	2592.99	Outer_Full	88.10	93.98	/	Pass



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	2644.98	Outer_Full	88.22	94.22	/	Pass
CP-OFDM 256 QAM	2541	Outer_Full	88.25	93.88	/	Pass
	2592.99	Outer_Full	87.92	94.17	/	Pass
	2644.98	Outer_Full	88.23	94.17	/	Pass

3.1.7 30k_SISO_100MHz_NTNV

5G NR n41 SCS=30kHz SISO 100MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2546.01	Outer_Full	97.36	103.66	/	Pass
	2592.99	Outer_Full	97.11	103.44	/	Pass
	2640	Outer_Full	97.41	103.50	/	Pass
DFT-s-OFDM QPSK	2546.01	Outer_Full	97.40	103.87	/	Pass
	2592.99	Outer_Full	97.04	103.66	/	Pass
	2640	Outer_Full	97.56	104.08	/	Pass
DFT-s-OFDM 16 QAM	2546.01	Outer_Full	96.88	103.34	/	Pass
	2592.99	Outer_Full	96.95	103.48	/	Pass
	2640	Outer_Full	97.31	103.72	/	Pass
DFT-s-OFDM 64 QAM	2546.01	Outer_Full	97.28	103.90	/	Pass
	2592.99	Outer_Full	96.92	103.72	/	Pass
	2640	Outer_Full	97.29	103.67	/	Pass
DFT-s-OFDM 256 QAM	2546.01	Outer_Full	97.23	103.67	/	Pass
	2592.99	Outer_Full	97.18	103.45	/	Pass
	2640	Outer_Full	97.36	103.69	/	Pass
CP-OFDM QPSK	2546.01	Outer_Full	98.13	105.00	/	Pass
	2592.99	Outer_Full	98.18	105.03	/	Pass
	2640	Outer_Full	98.40	104.87	/	Pass
CP-OFDM 16 QAM	2546.01	Outer_Full	98.16	105.03	/	Pass
	2592.99	Outer_Full	98.19	104.85	/	Pass
	2640	Outer_Full	98.27	105.15	/	Pass
CP-OFDM 64 QAM	2546.01	Outer_Full	98.35	104.59	/	Pass
	2592.99	Outer_Full	98.31	105.06	/	Pass
	2640	Outer_Full	98.29	105.07	/	Pass
CP-OFDM 256 QAM	2546.01	Outer_Full	98.30	104.75	/	Pass
	2592.99	Outer_Full	98.31	104.84	/	Pass
	2640	Outer_Full	98.39	104.94	/	Pass



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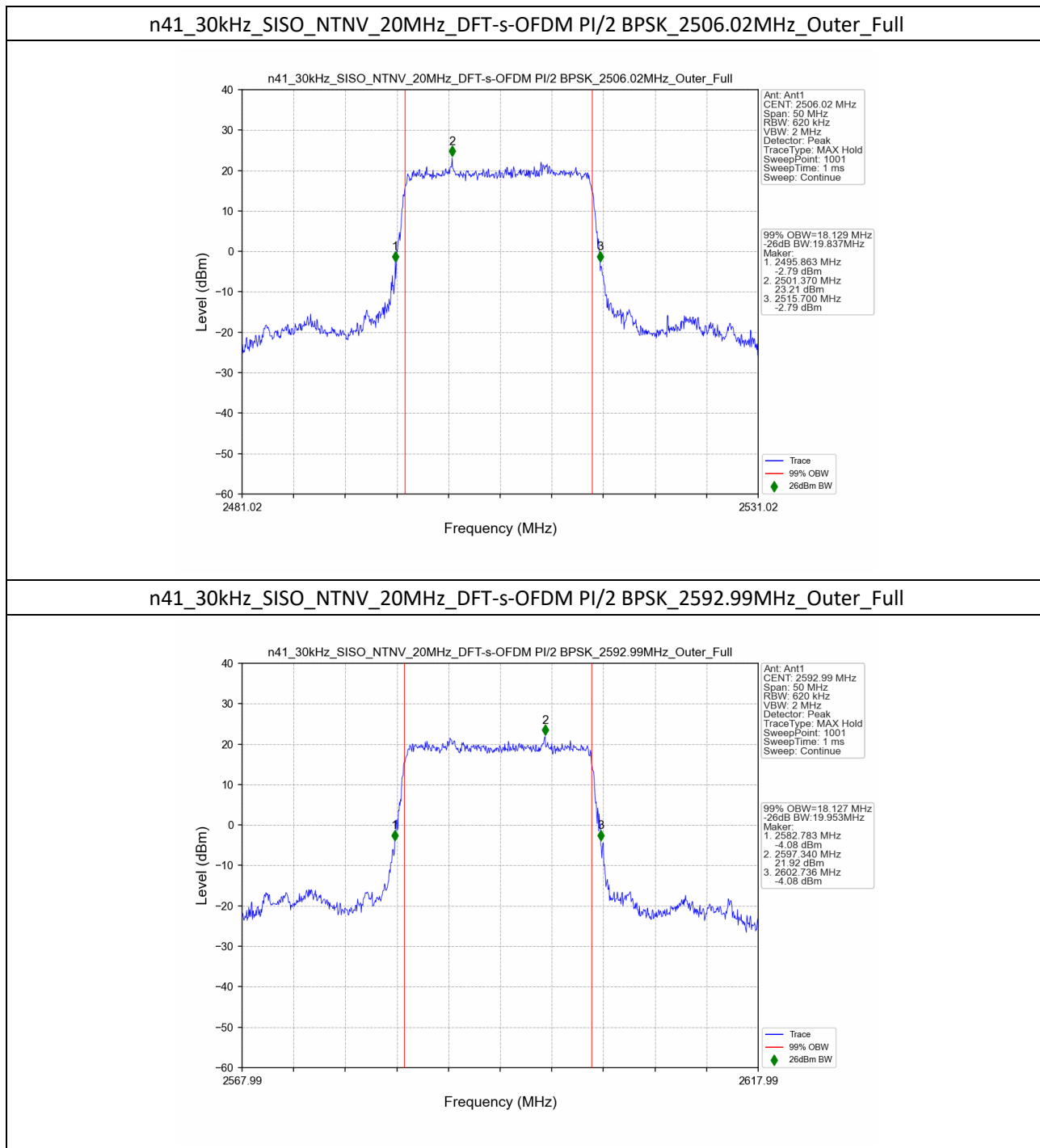
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3.2 Test Graph

3.2.1 30k_SISO_20MHz_NTNV



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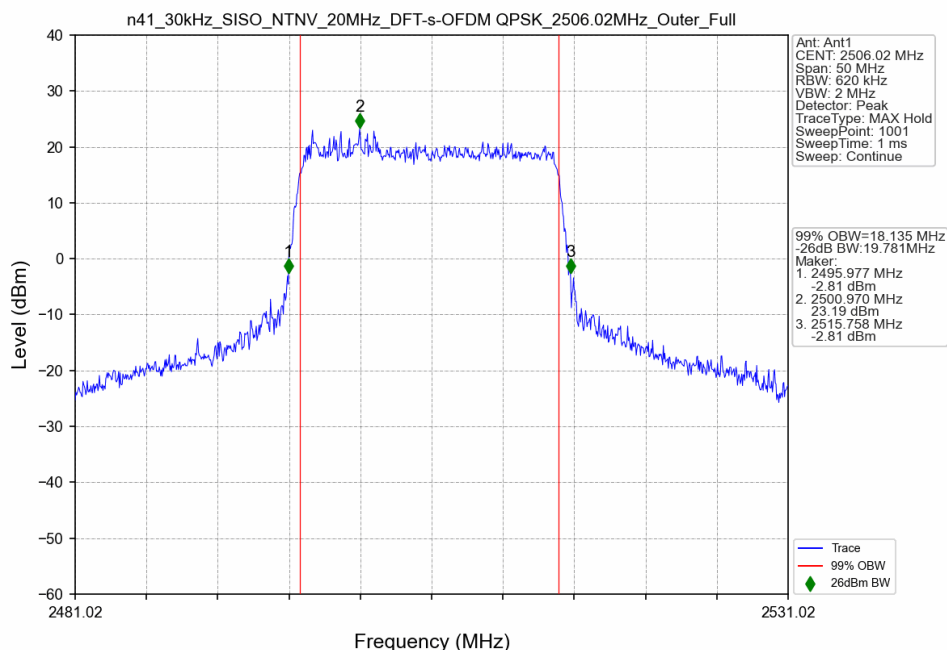
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2679.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2506.02MHz_Outer_Full

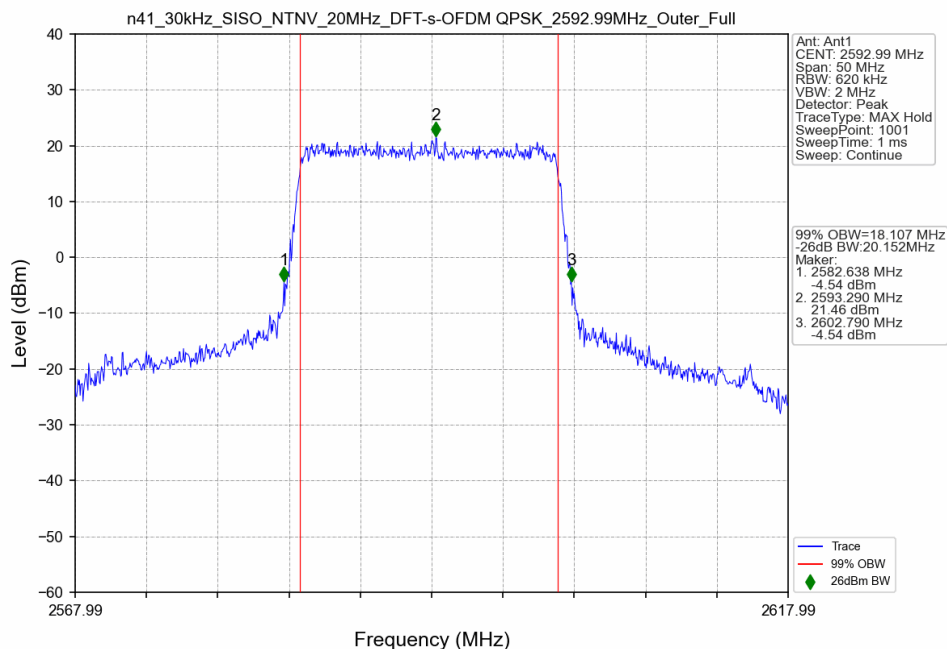


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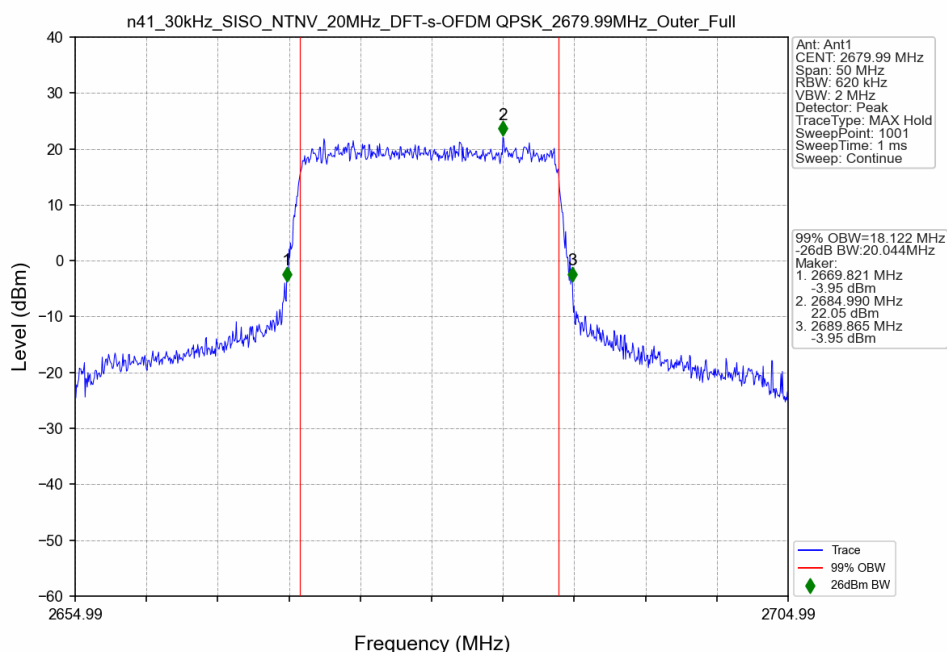
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2592.99MHz_Outer_Full



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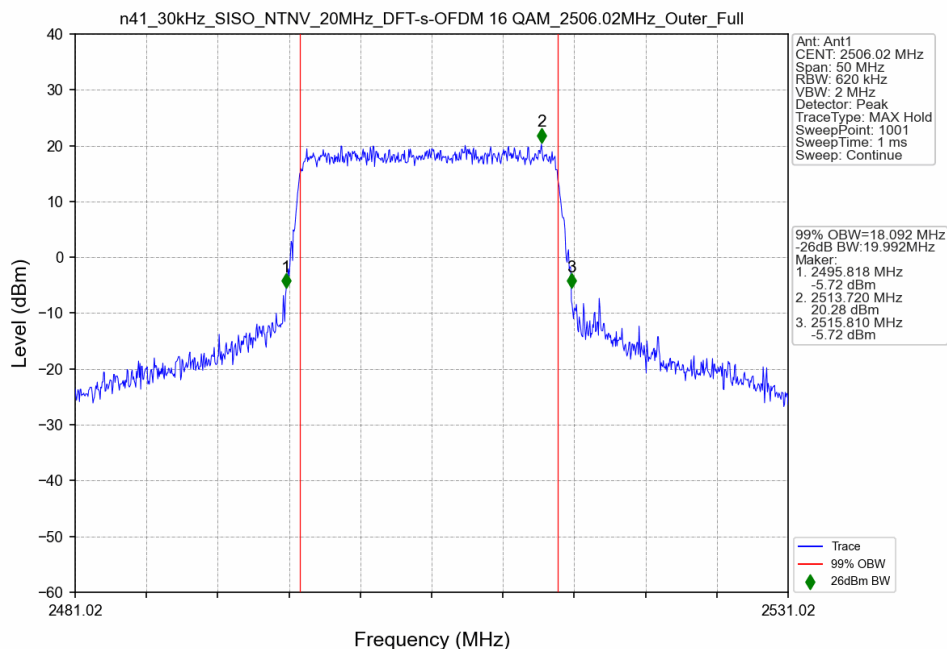


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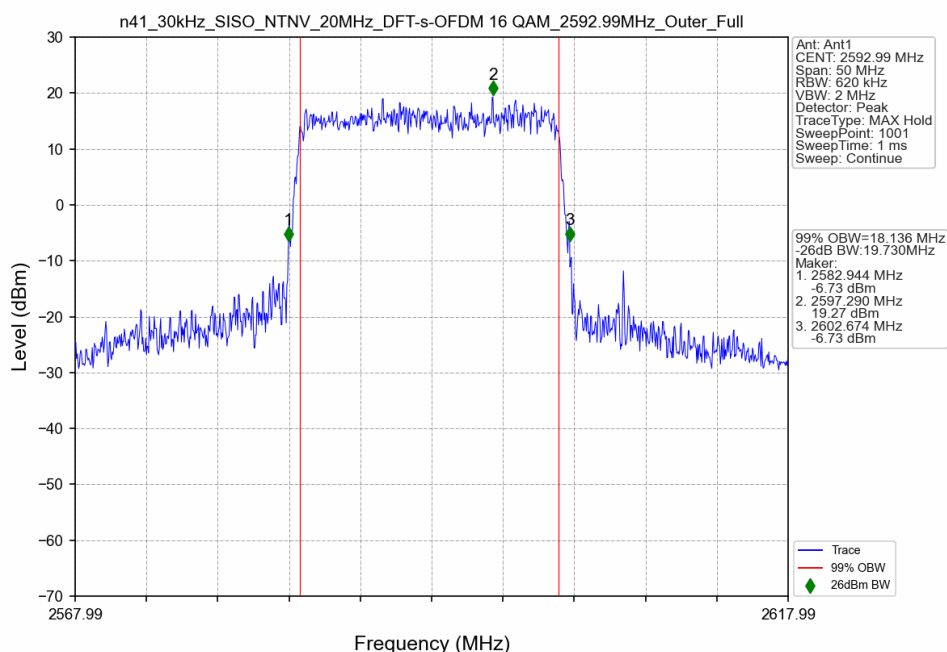
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2506.02MHz_Outer_Full



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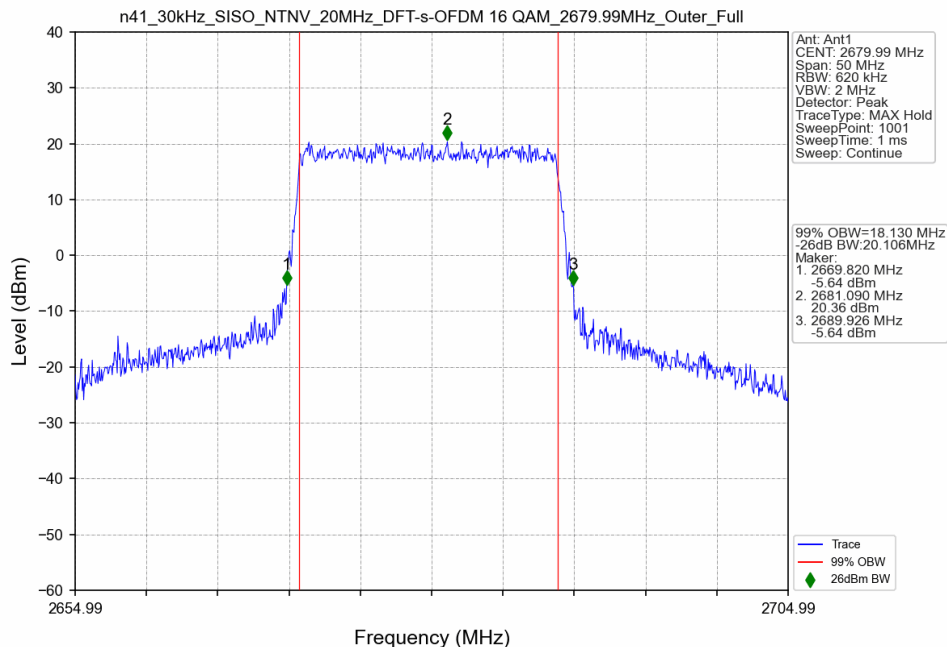


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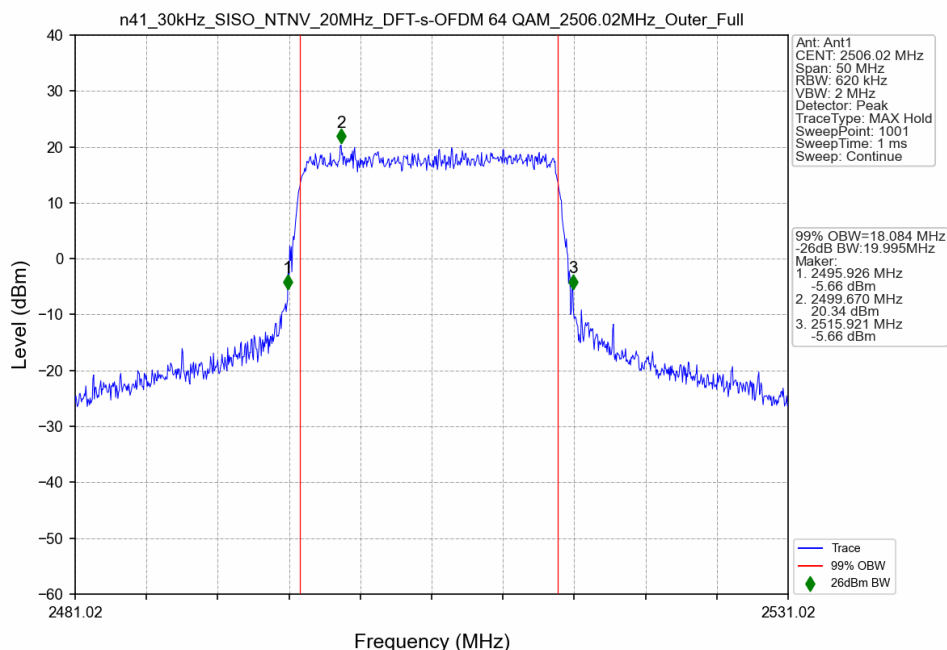
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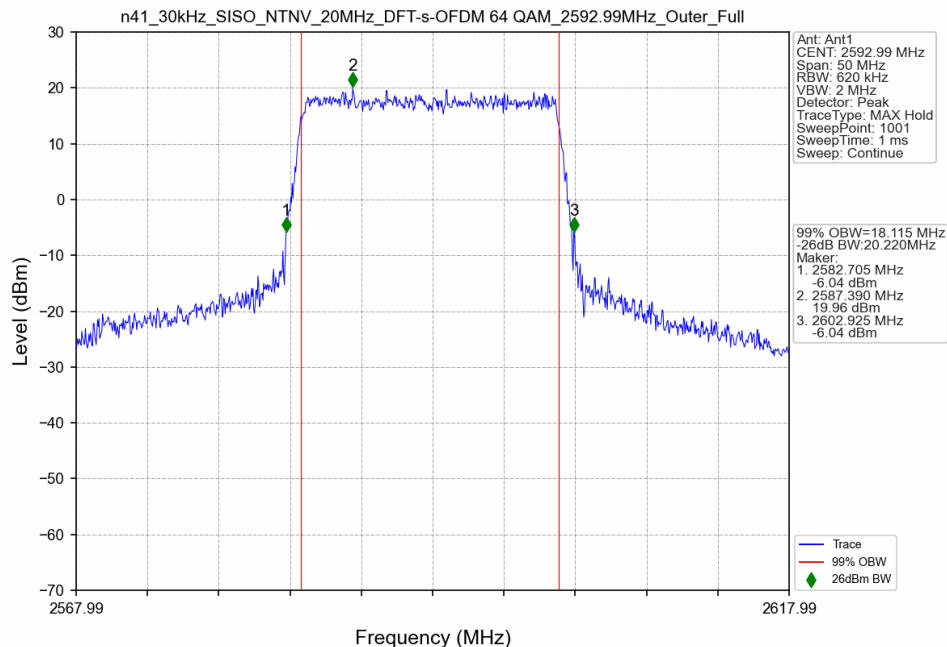


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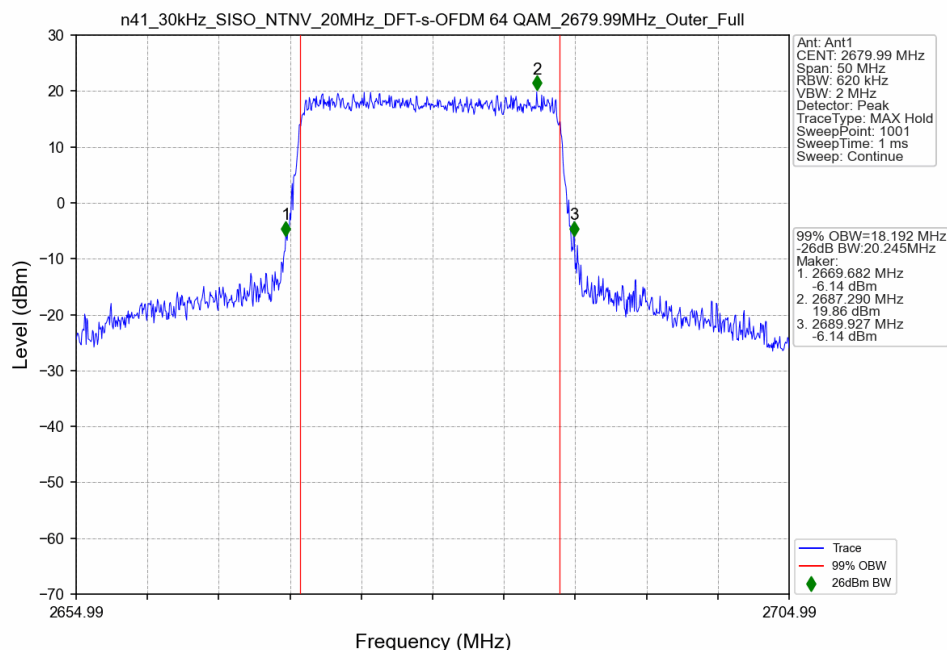
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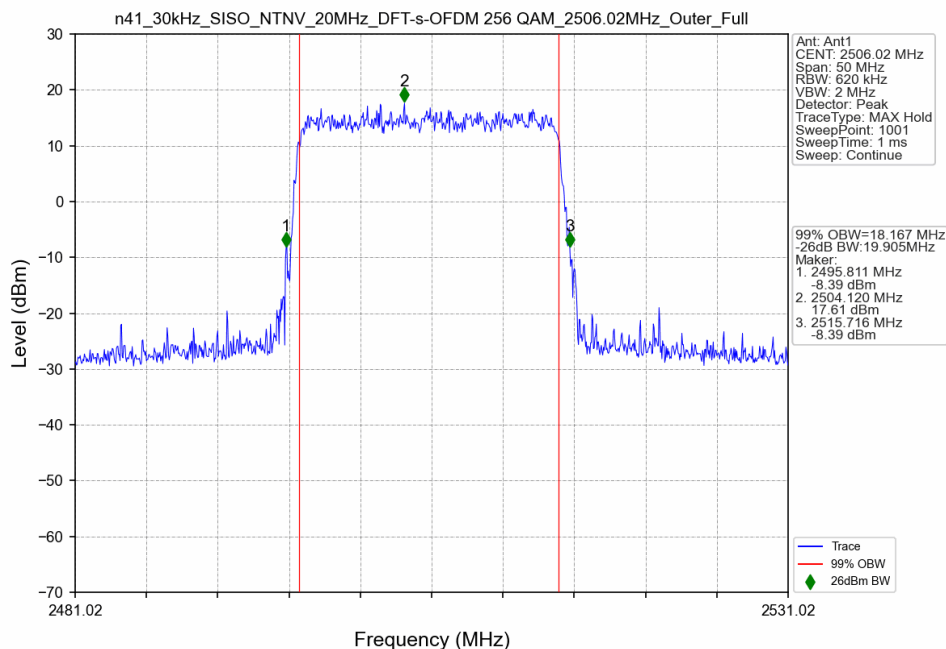


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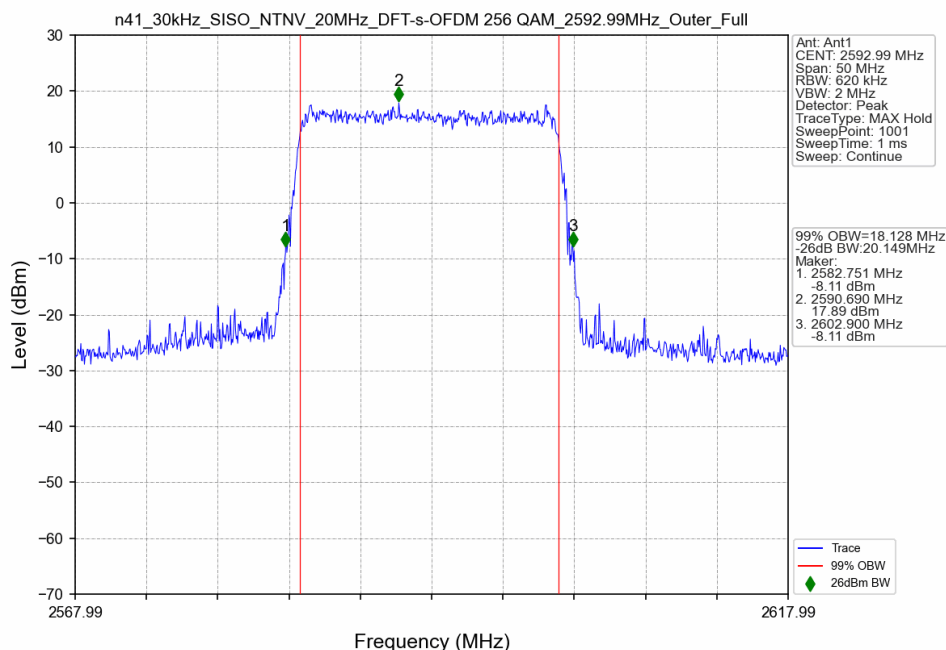
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2506.02MHz_Outer_Full



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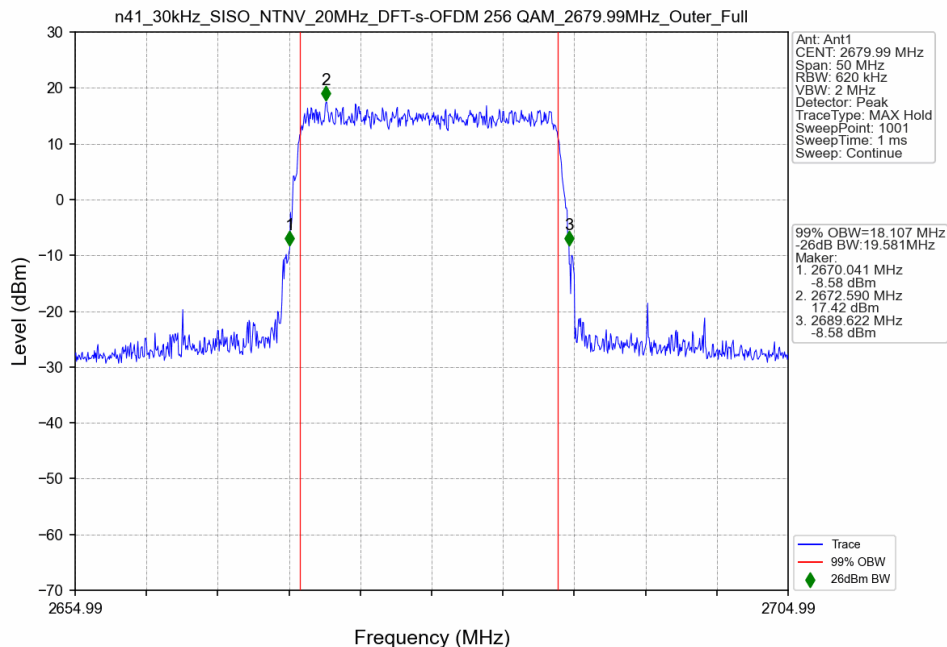


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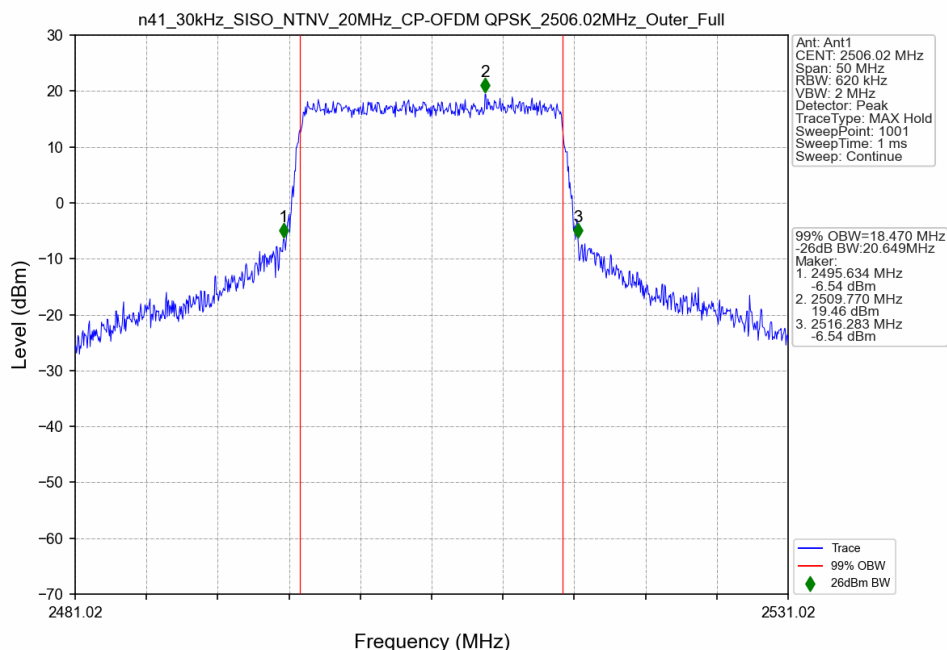
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2679.99MHz_Outer_Full



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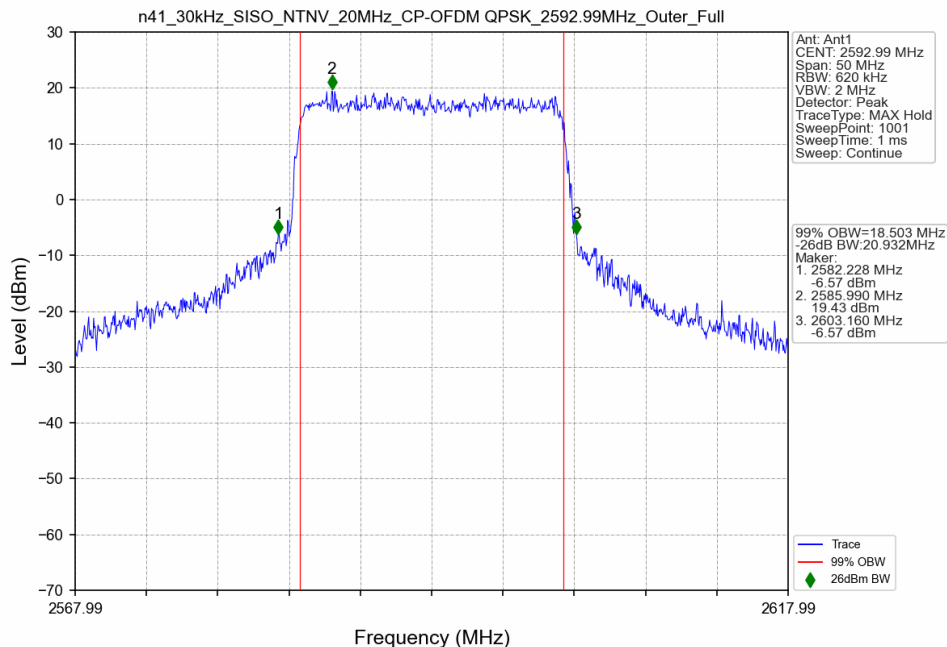


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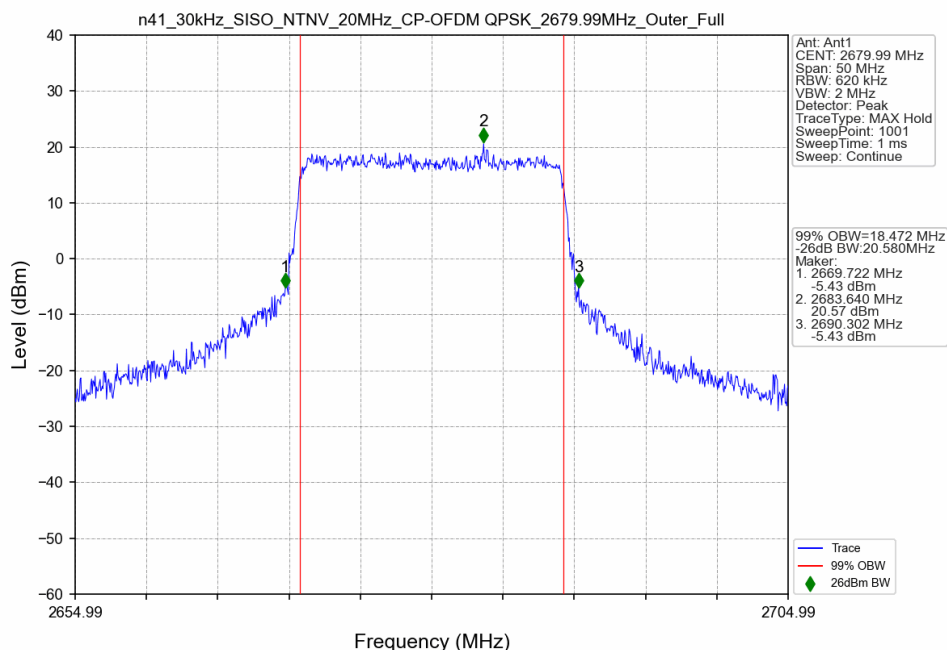
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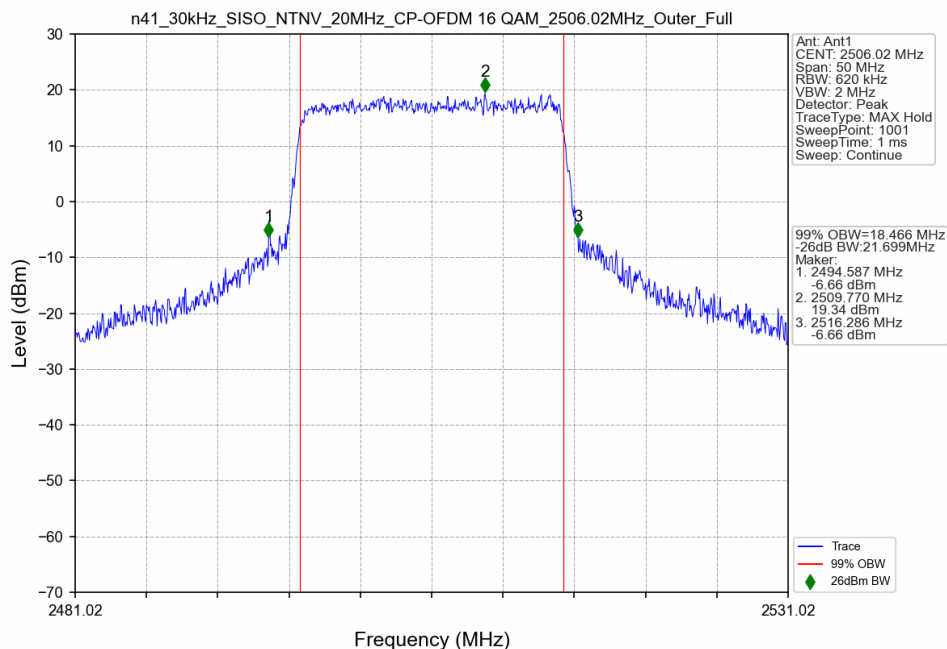


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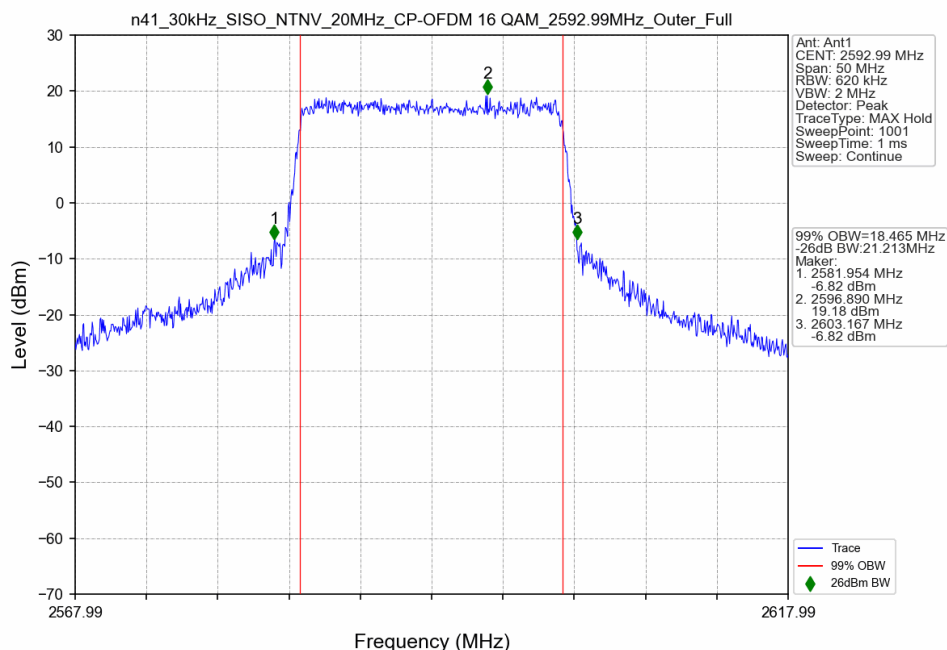
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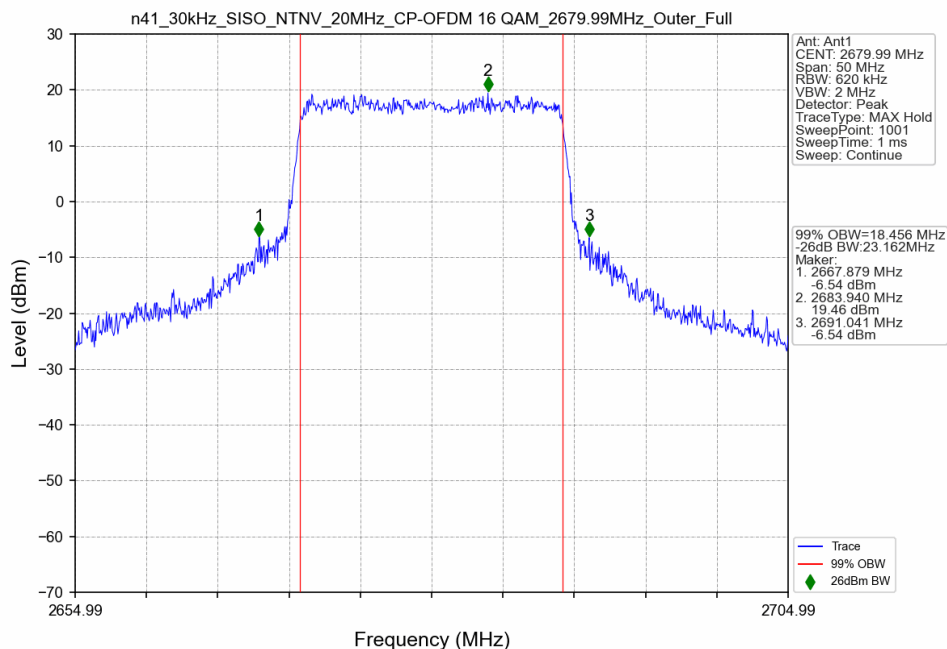


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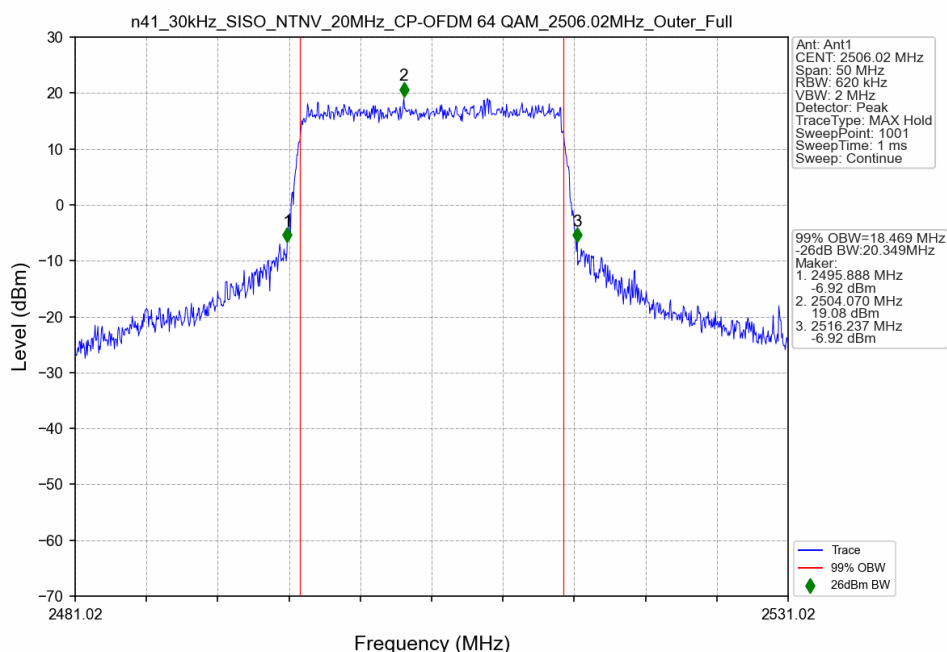
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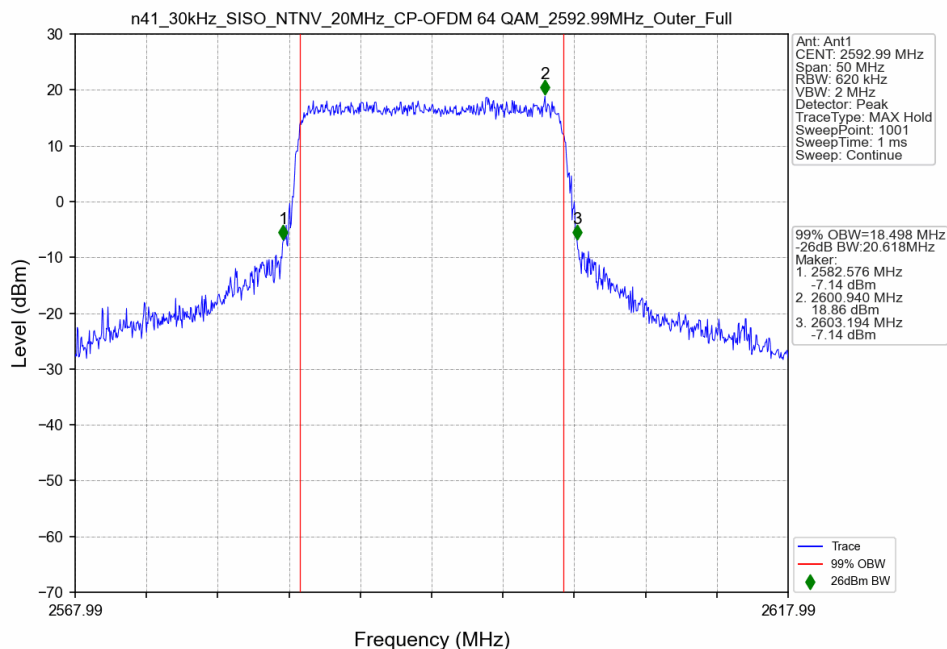


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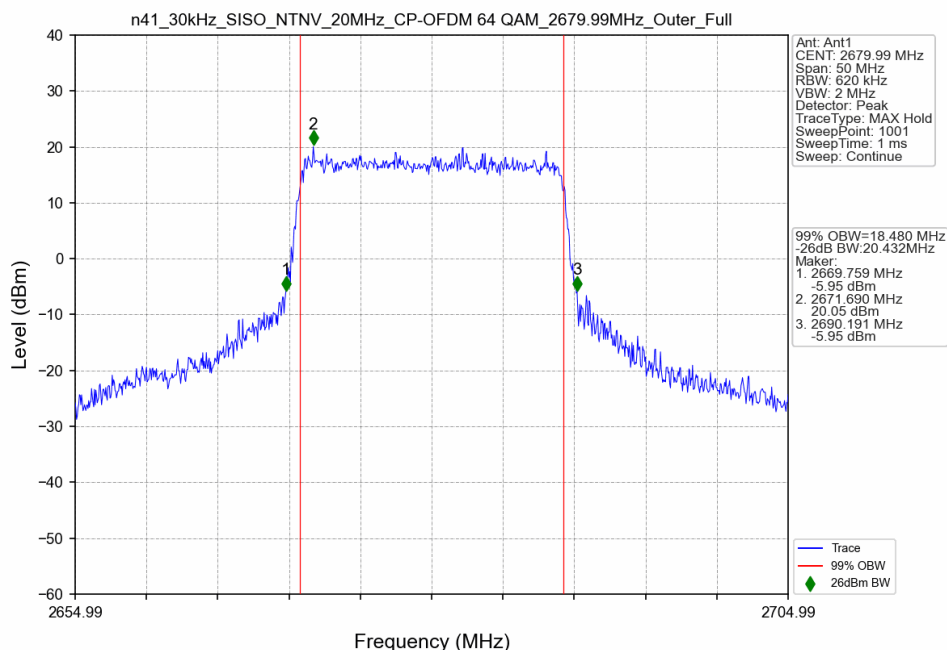
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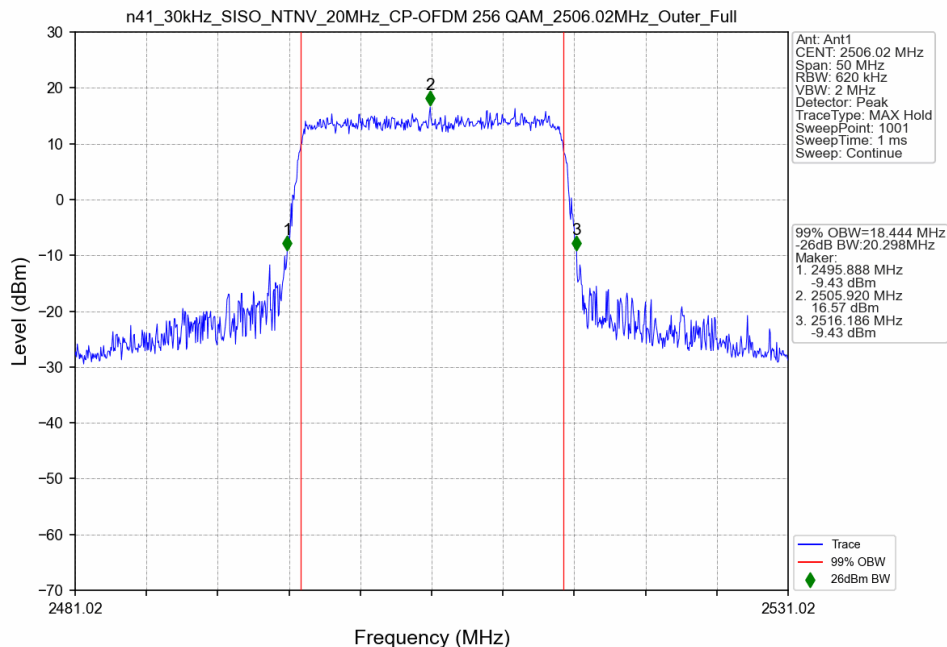


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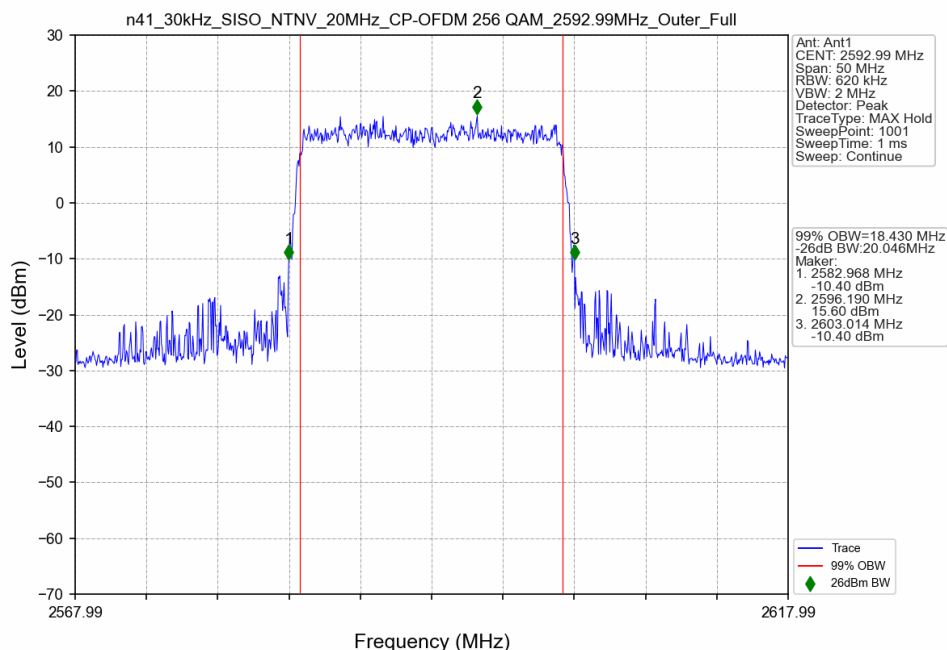
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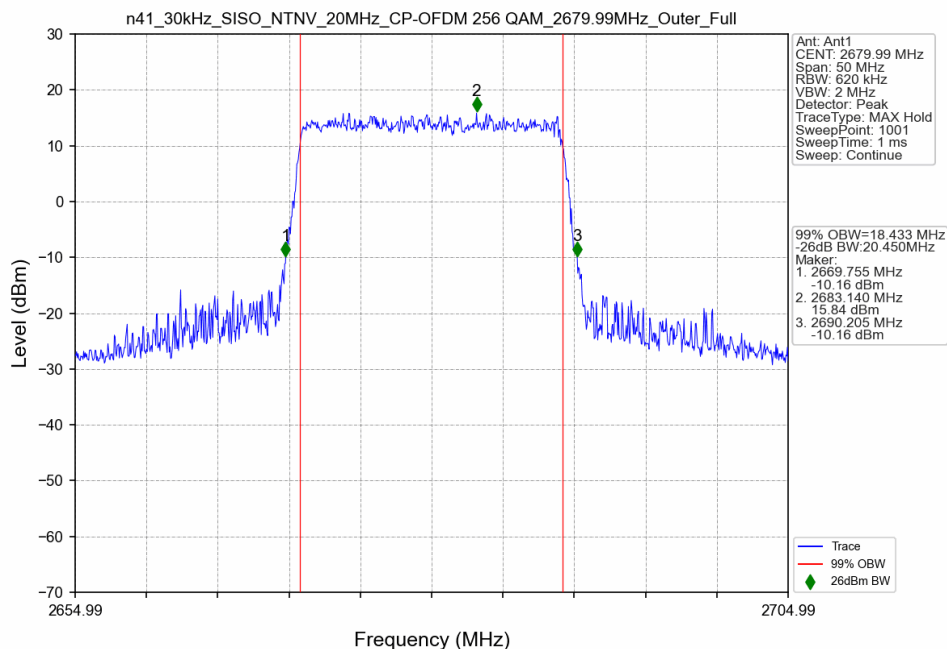


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