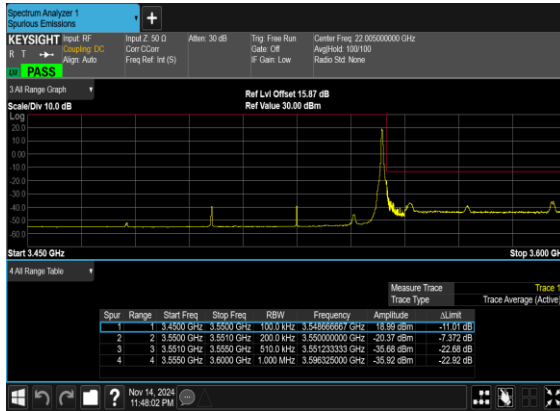
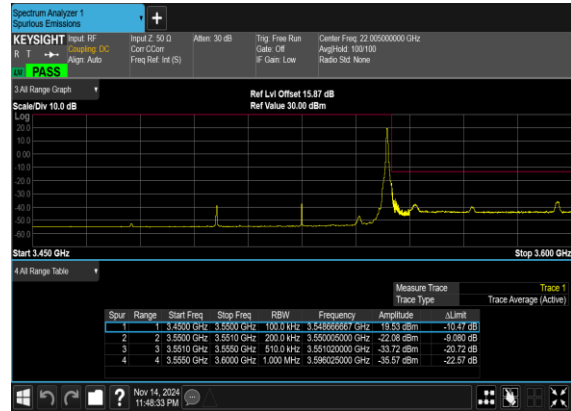




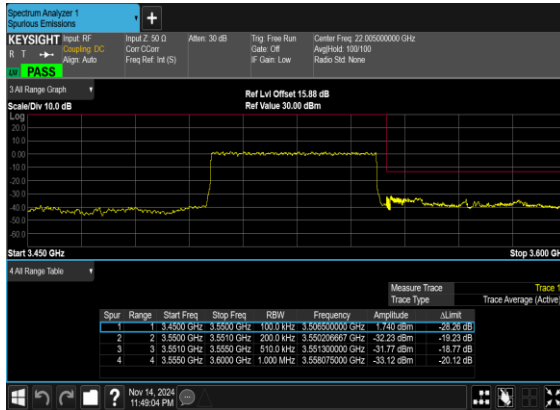
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(50M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

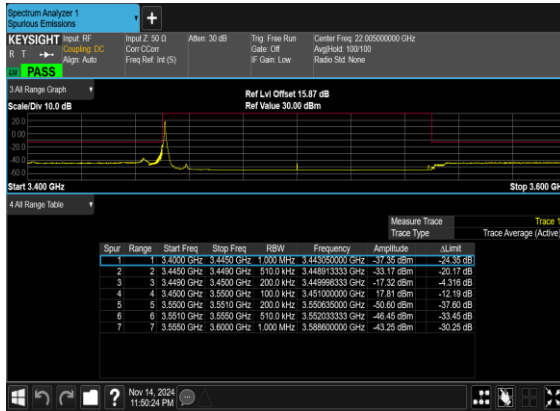


N77(50M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

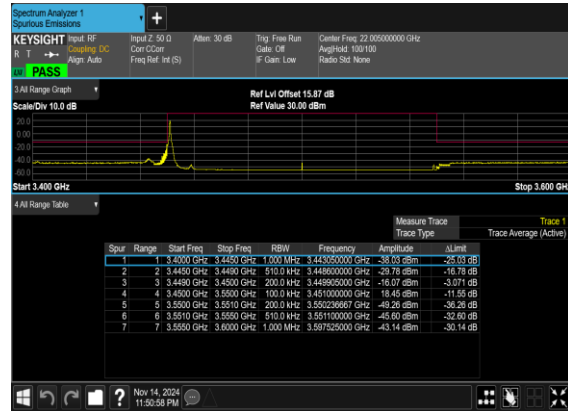




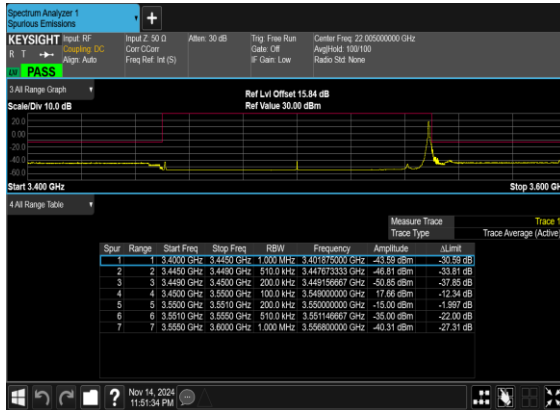
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



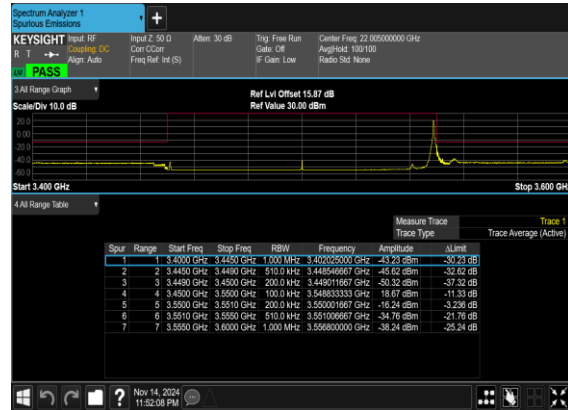
N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Mid_CH

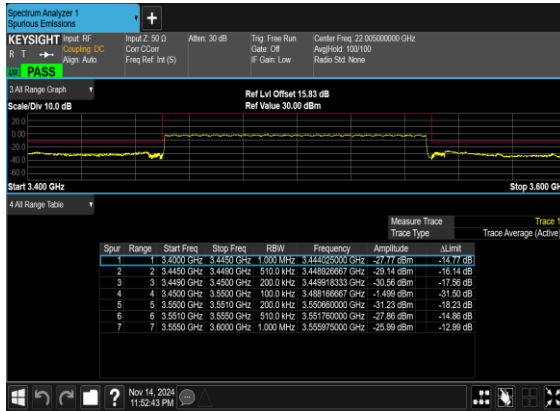


N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH

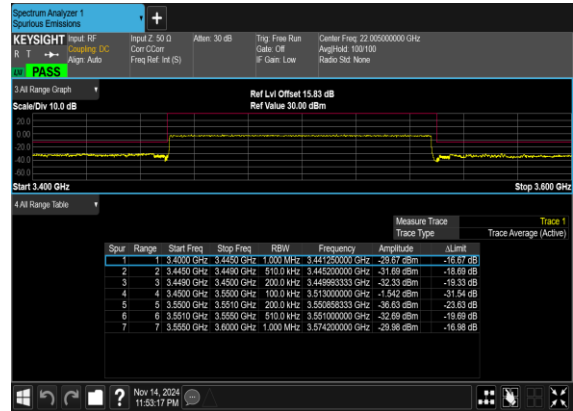




N77(100M)_DFT-s-
OFDM_BPSK_Outer_Full_Mid_CH



N77(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH





Software Version: 23.06.1602

FR1 N78 ANT4 (Other PA)

Transmitter Conducted Output Power And EIRP, (G_T - L_c)=-1.8 dB

NR Band	SCS	Band Width	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	27.18	25.38	0.3451
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	26.42	24.62	0.2897
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.28	25.48	0.3532
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.32	24.52	0.2831
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	27.28	25.48	0.3532
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	26.28	24.48	0.2805
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	27.09	25.29	0.3381
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	26.21	24.41	0.2761
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.94	25.14	0.3266
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.03	24.23	0.2649
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	26.88	25.08	0.3221
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	25.92	24.12	0.2582
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	27.26	25.46	0.3516
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	26.45	24.65	0.2917
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.3	25.5	0.3548
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.41	24.61	0.2891
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	27.12	25.32	0.3404
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	26.2	24.4	0.2754
78	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	27.2	25.4	0.3467
78	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	26.41	24.61	0.2891
78	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.27	25.47	0.3524
78	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.36	24.56	0.2858
78	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@1	27.11	25.31	0.3396
78	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@1	26.22	24.42	0.2767
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	27.39	25.59	0.3622
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	26.57	24.77	0.2999
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.44	25.64	0.3664
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.56	24.76	0.2992
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	27.32	25.52	0.3565
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	26.5	24.7	0.2951
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	27.3	25.5	0.3548
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	26.41	24.61	0.2891
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.36	25.56	0.3597
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.39	24.59	0.2877
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	27.23	25.43	0.3491
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	26.29	24.49	0.2812
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	27.43	25.63	0.3656
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	26.54	24.74	0.2979
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.45	25.65	0.3673



78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.57	24.77	0.2999
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	27.5	25.7	0.3715
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	26.6	24.8	0.3020
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	27.37	25.57	0.3606
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	26.46	24.66	0.2924
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.24	25.44	0.3499
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.27	24.47	0.2799
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	27.32	25.52	0.3565
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	26.39	24.59	0.2877
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	27.21	25.41	0.3475
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	26.55	24.75	0.2985
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.29	24.49	0.2812
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.47	24.67	0.2931
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	27.51	25.71	0.3724
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	26.65	24.85	0.3055
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	27.44	25.64	0.3664
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	26.55	24.75	0.2985
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.31	24.51	0.2825
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.52	24.72	0.2965
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	27.46	25.66	0.3681
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	26.55	24.75	0.2985
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	27.56	25.76	0.3767
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	26.65	24.85	0.3055
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.52	25.72	0.3733
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.58	24.78	0.3006
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	27.54	25.74	0.3750
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	26.58	24.78	0.3006
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	27.11	25.31	0.3396
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.55	25.75	0.3758
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	27.01	25.21	0.3319
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	27.26	25.46	0.3516
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.57	25.77	0.3776
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	27.02	25.22	0.3327
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	26.19	24.39	0.2748
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.63	24.83	0.3041
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	26.13	24.33	0.2710
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	24.66	22.86	0.1932
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	25.13	23.33	0.2153
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	24.46	22.66	0.1845
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	22.64	20.84	0.1213
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	22.91	21.11	0.1291
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	22.37	20.57	0.1140
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	25.57	23.77	0.2382
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	25.99	24.19	0.2624
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	25.48	23.68	0.2333



Software Version: 23.06.1602

FR1 N77 MIMO ANT5+6

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=-0.9 dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	ANT5 Power (dBm)	ANT6 Power (dBm)	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
77	30	10	630334	3455.01	CP-OFDM QPSK	1@1	21.58	21.99	24.80	23.9	0.2455
77	30	10	630334	3455.01	CP-OFDM 16 QAM	1@1	21.12	21.2	24.17	23.27	0.2123
77	30	10	633334	3500.01	CP-OFDM QPSK	1@1	21.58	22.01	24.81	23.91	0.2460
77	30	10	633334	3500.01	CP-OFDM 16 QAM	1@1	21.15	21.26	24.22	23.32	0.2148
77	30	10	636332	3544.98	CP-OFDM QPSK	1@1	22.33	21.68	25.03	24.13	0.2588
77	30	10	636332	3544.98	CP-OFDM 16 QAM	1@1	21.74	21.17	24.47	23.57	0.2275
77	30	15	630500	3457.5	CP-OFDM QPSK	1@1	21.65	21.92	24.80	23.9	0.2455
77	30	15	630500	3457.5	CP-OFDM 16 QAM	1@1	20.99	21.42	24.22	23.32	0.2148
77	30	15	633334	3500.01	CP-OFDM QPSK	1@1	22.79	21.97	25.41	24.51	0.2825
77	30	15	633334	3500.01	CP-OFDM 16 QAM	1@1	22.37	21.13	24.80	23.9	0.2455
77	30	15	636166	3542.49	CP-OFDM QPSK	1@1	22.64	21.83	25.26	24.36	0.2729
77	30	15	636166	3542.49	CP-OFDM 16 QAM	1@1	22.34	21.08	24.77	23.87	0.2438
77	30	20	630668	3460.02	CP-OFDM QPSK	1@1	22.79	21.93	25.39	24.49	0.2812
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@1	21.93	21.35	24.66	23.76	0.2377
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	22.89	21.96	25.46	24.56	0.2858
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@1	22.28	21.21	24.79	23.89	0.2449
77	30	20	636000	3540	CP-OFDM QPSK	1@1	22.85	21.86	25.39	24.49	0.2812
77	30	20	636000	3540	CP-OFDM 16 QAM	1@1	20.83	21.04	23.95	23.05	0.2018
77	30	25	630834	3462.51	CP-OFDM QPSK	1@1	22.72	22.27	25.51	24.61	0.2891
77	30	25	630834	3462.51	CP-OFDM 16 QAM	1@1	22.43	21.5	25.00	24.1	0.2570
77	30	25	633334	3500.01	CP-OFDM QPSK	1@1	23.04	22.12	25.61	24.71	0.2958
77	30	25	633334	3500.01	CP-OFDM 16 QAM	1@1	22.39	21.48	24.97	24.07	0.2553
77	30	25	635832	3537.48	CP-OFDM QPSK	1@1	23.16	21.93	25.60	24.7	0.2951
77	30	25	635832	3537.48	CP-OFDM 16 QAM	1@1	21.64	21.43	24.55	23.65	0.2317
77	30	30	631000	3465	CP-OFDM QPSK	1@1	22.64	22.31	25.49	24.59	0.2877
77	30	30	631000	3465	CP-OFDM 16 QAM	1@1	22.35	21.57	24.99	24.09	0.2564
77	30	30	633334	3500.01	CP-OFDM QPSK	1@1	23.16	22.28	25.75	24.85	0.3055
77	30	30	633334	3500.01	CP-OFDM 16 QAM	1@1	22.44	21.56	25.03	24.13	0.2588
77	30	30	635666	3534.99	CP-OFDM QPSK	1@1	23.29	22.06	25.73	24.83	0.3041
77	30	30	635666	3534.99	CP-OFDM 16 QAM	1@1	22.53	21.51	25.06	24.16	0.2606
77	30	40	631334	3470.01	CP-OFDM QPSK	1@1	22.68	22.19	25.45	24.55	0.2851
77	30	40	631334	3470.01	CP-OFDM 16 QAM	1@1	22.05	21.51	24.80	23.9	0.2455
77	30	40	633334	3500.01	CP-OFDM QPSK	1@1	23.14	22.13	25.67	24.77	0.2999
77	30	40	633334	3500.01	CP-OFDM 16 QAM	1@1	21.88	21.54	24.72	23.82	0.2410
77	30	40	635332	3529.98	CP-OFDM QPSK	1@1	22.94	22.19	25.59	24.69	0.2944
77	30	40	635332	3529.98	CP-OFDM 16 QAM	1@1	22.42	21.38	24.94	24.04	0.2535
77	30	50	631668	3475.02	CP-OFDM QPSK	1@1	22.87	22.61	25.75	24.85	0.3055



77	30	50	631668	3475.02	CP-OFDM 16 QAM	1@1	22.4	21.56	25.01	24.11	0.2576
77	30	50	633334	3500.01	CP-OFDM QPSK	1@1	22.96	22.49	25.74	24.84	0.3048
77	30	50	633334	3500.01	CP-OFDM 16 QAM	1@1	22.52	21.62	25.10	24.2	0.2630
77	30	50	635000	3525	CP-OFDM QPSK	1@1	23.13	22.43	25.80	24.9	0.3090
77	30	50	635000	3525	CP-OFDM 16 QAM	1@1	22.19	21.59	24.91	24.01	0.2518
77	30	60	632000	3480	CP-OFDM QPSK	1@1	22.92	22.17	25.57	24.67	0.2931
77	30	60	632000	3480	CP-OFDM 16 QAM	1@1	22.2	21.62	24.93	24.03	0.2529
77	30	60	633334	3500.01	CP-OFDM QPSK	1@1	22.9	22.38	25.66	24.76	0.2992
77	30	60	633334	3500.01	CP-OFDM 16 QAM	1@1	21.36	21.65	24.52	23.62	0.2301
77	30	60	634666	3519.99	CP-OFDM QPSK	1@1	22.9	22.28	25.61	24.71	0.2958
77	30	60	634666	3519.99	CP-OFDM 16 QAM	1@1	22.63	21.48	25.10	24.2	0.2630
77	30	70	632334	3485.01	CP-OFDM QPSK	1@1	23.02	22.45	25.75	24.85	0.3055
77	30	70	632334	3485.01	CP-OFDM 16 QAM	1@1	22.41	21.61	25.04	24.14	0.2594
77	30	70	633334	3500.01	CP-OFDM QPSK	1@1	23.15	22.34	25.77	24.87	0.3069
77	30	70	633334	3500.01	CP-OFDM 16 QAM	1@1	22.2	21.67	24.95	24.05	0.2541
77	30	70	634332	3514.98	CP-OFDM QPSK	1@1	23.05	22.49	25.79	24.89	0.3083
77	30	70	634332	3514.98	CP-OFDM 16 QAM	1@1	22.49	21.57	25.06	24.16	0.2606
77	30	80	632668	3490.02	CP-OFDM QPSK	1@1	23	22.39	25.72	24.82	0.3034
77	30	80	632668	3490.02	CP-OFDM 16 QAM	1@1	22.37	21.76	25.09	24.19	0.2624
77	30	80	633334	3500.01	CP-OFDM QPSK	1@1	22.85	22.55	25.71	24.81	0.3027
77	30	80	633334	3500.01	CP-OFDM 16 QAM	1@1	22.41	21.68	25.07	24.17	0.2612
77	30	80	634000	3510	CP-OFDM QPSK	1@1	23.24	22.34	25.82	24.92	0.3105
77	30	80	634000	3510	CP-OFDM 16 QAM	1@1	22.3	21.75	25.04	24.14	0.2594
77	30	90	633000	3495	CP-OFDM QPSK	1@1	22.91	22.52	25.73	24.83	0.3041
77	30	90	633000	3495	CP-OFDM 16 QAM	1@1	22.64	21.8	25.25	24.35	0.2723
77	30	90	633334	3500.01	CP-OFDM QPSK	1@1	23.2	22.46	25.86	24.96	0.3133
77	30	90	633334	3500.01	CP-OFDM 16 QAM	1@1	22.42	21.95	25.20	24.3	0.2692
77	30	90	633666	3504.99	CP-OFDM QPSK	1@1	22.96	22.6	25.79	24.89	0.3083
77	30	90	633666	3504.99	CP-OFDM 16 QAM	1@1	22.59	21.84	25.24	24.34	0.2716
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	21.55	21.96	24.77	23.87	0.2438
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	23.32	22.55	25.96	25.06	0.3206
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	22.94	21.55	25.31	24.41	0.2761
77	30	100	633334	3500.01	CP-OFDM 16 QAM	137@68	22.38	21.55	25.00	24.1	0.2570
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	22.72	22.24	25.50	24.6	0.2884
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@271	22.46	21.23	24.90	24	0.2512
77	30	100	633334	3500.01	CP-OFDM 64 QAM	137@68	20.9	20.08	23.52	22.62	0.1828
77	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	20.57	20.56	23.58	22.68	0.1854
77	30	100	633334	3500.01	CP-OFDM 64 QAM	1@271	20.42	19.56	23.02	22.12	0.1629
77	30	100	633334	3500.01	CP-OFDM 256 QAM	137@68	18	17	20.54	19.64	0.0920
77	30	100	633334	3500.01	CP-OFDM 256 QAM	1@1	17.84	17.65	20.76	19.86	0.0968
77	30	100	633334	3500.01	CP-OFDM 256 QAM	1@271	17.96	16.68	20.38	19.48	0.0887



FR1 N77 MIMO-ANT10+4(4)

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	16.3	PASS	NV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	19.1	PASS	LV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.8	PASS	HV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	12.8	PASS	-30°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	12.5	PASS	-20°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	15.2	PASS	-10°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	12.5	PASS	0°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	13.4	PASS	10°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.8	PASS	20°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	10.5	PASS	30°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	12.8	PASS	40°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	14.4	PASS	50°C



Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	8.25	13	PASS

N77(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH





Occupied Bandwidth

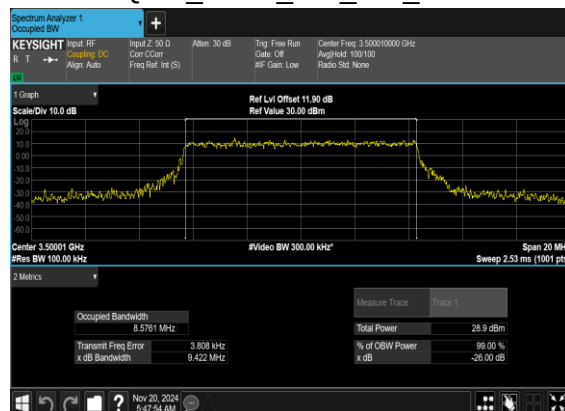
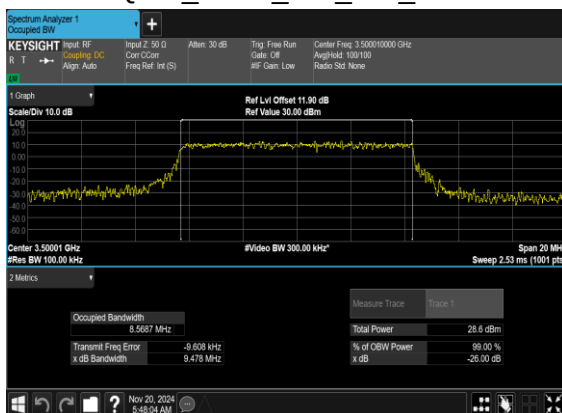
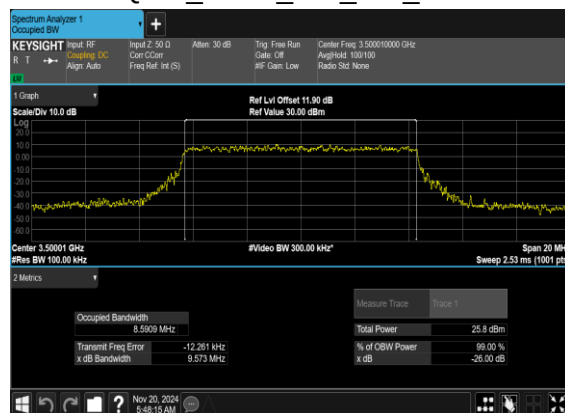
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5824	9.503
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5761	9.422
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5687	9.478
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.5909	9.573
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.558	14.97
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.567	14.63
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.611	14.54
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.599	14.7
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.205	19.48
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.241	19.41
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.212	19.52
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.225	19.56
77	30	25	633334	3500.01	CP-OFDM QPSK	65@0	23.304	24.4
77	30	25	633334	3500.01	CP-OFDM 16 QAM	65@0	23.201	24.41
77	30	25	633334	3500.01	CP-OFDM 64 QAM	65@0	23.171	24.38
77	30	25	633334	3500.01	CP-OFDM 256 QAM	65@0	23.202	24.5
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.825	29.22
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.799	29.43
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.889	29.19
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.837	30.57
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.794	39.09
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.9	39.26



77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.791	39.59
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.84	39.58
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.495	49.5
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.422	49.46
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.543	49.39
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.38	49.41
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.97	59.81
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.757	59.76
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.786	59.72
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.786	59.93
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.568	69.78
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.423	69.73
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.787	69.7
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.501	69.72
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.472	79.97
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.38	79.81
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.512	80.6
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.456	79.94
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.404	90.24
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.477	90.64
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.282	90.28
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.496	90.26
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.523	100.5
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.623	100.5
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.699	100.6

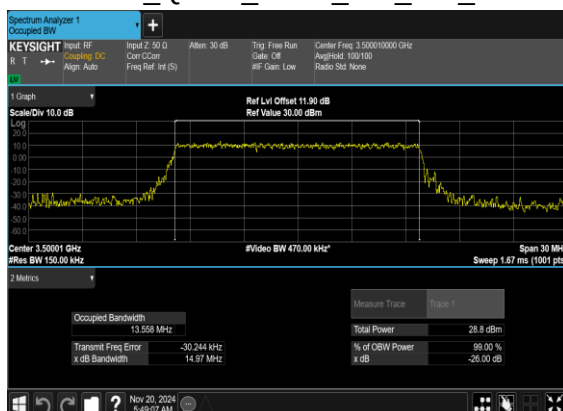


77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.453	100.6
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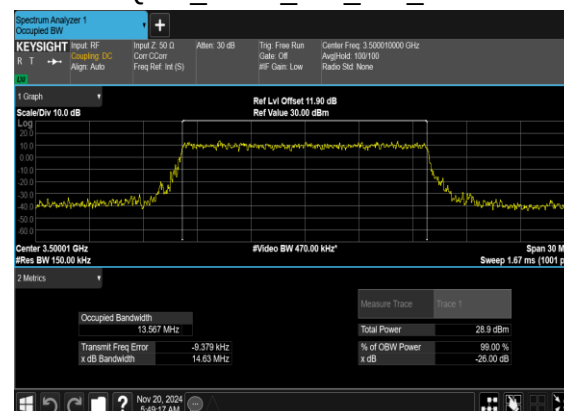
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QAM_Outer_Full_Mid_CHN77(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CHN77(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



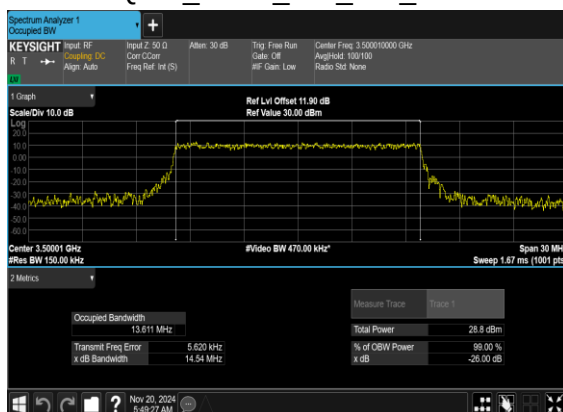
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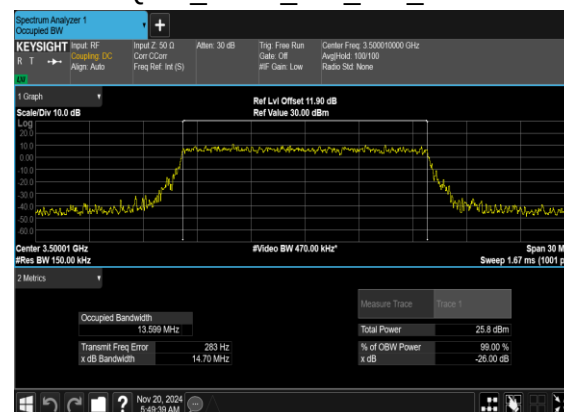
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QAM_Outer_Full_Mid_CH



N77(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

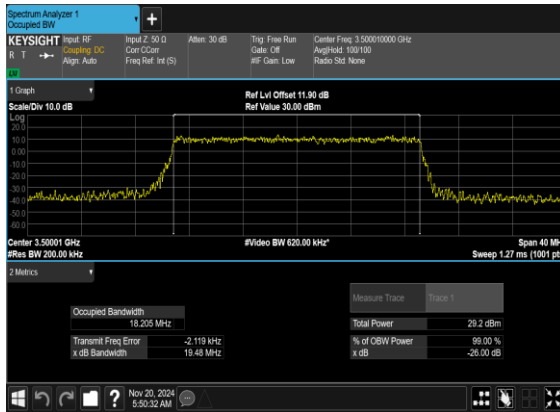


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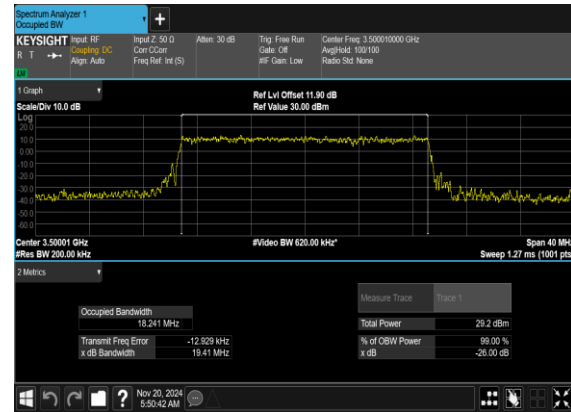




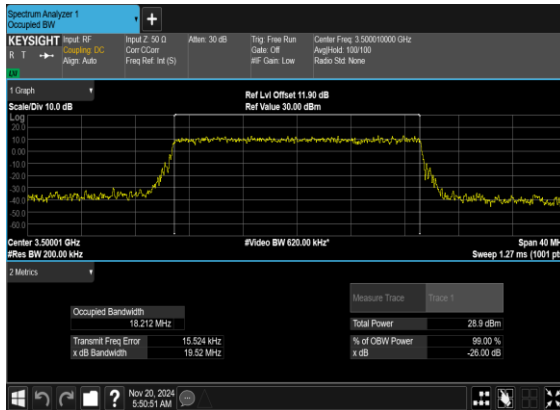
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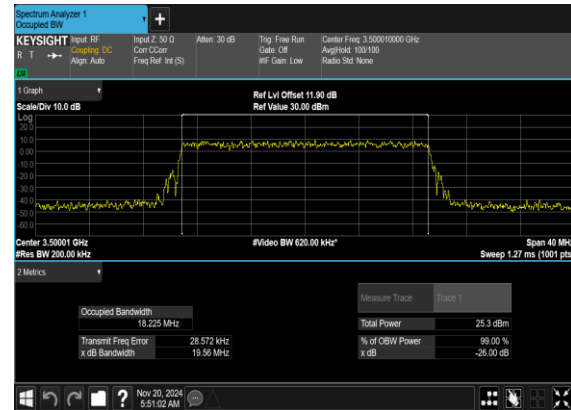
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QAM_Outer_Full_Mid_CH



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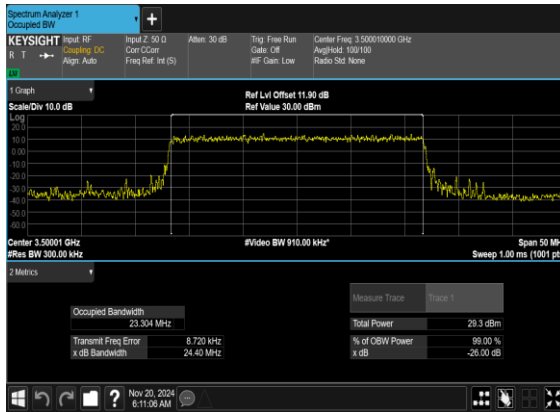


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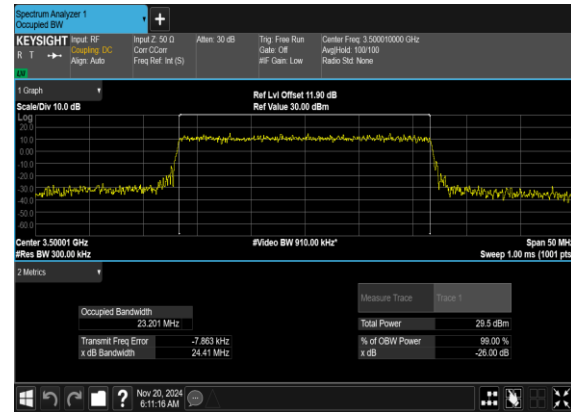




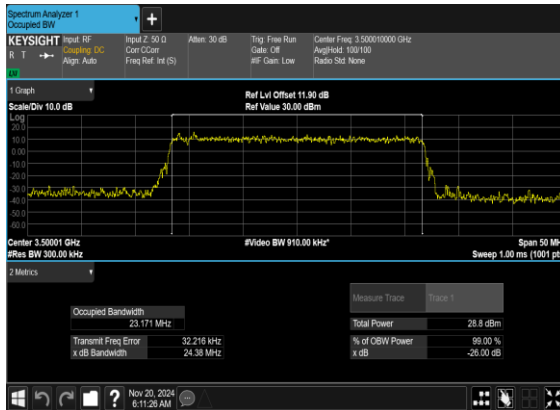
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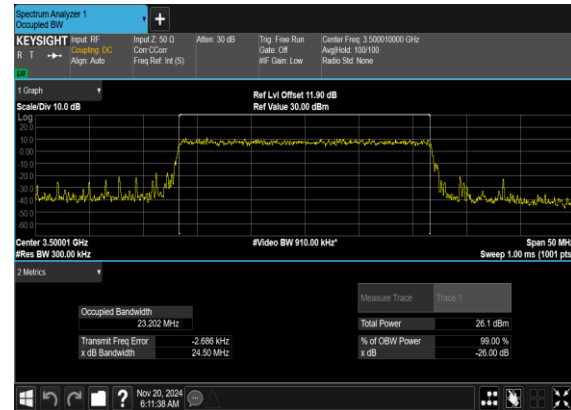
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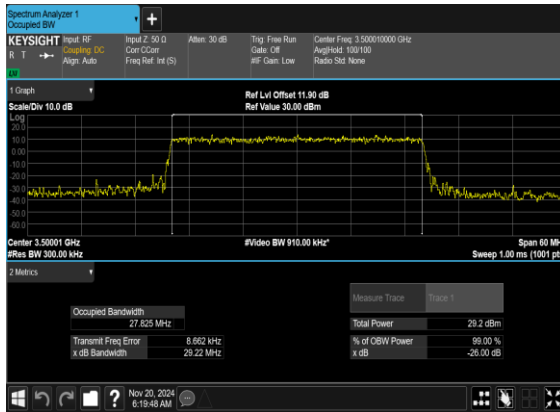


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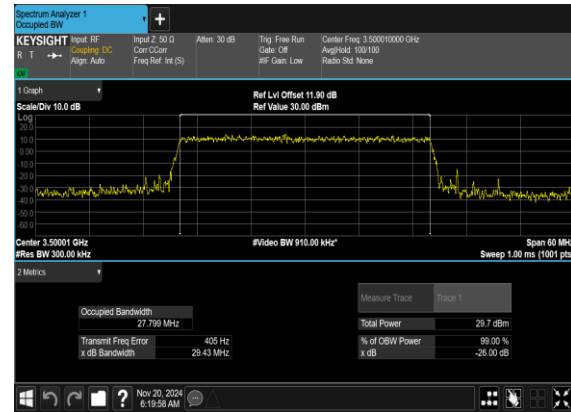




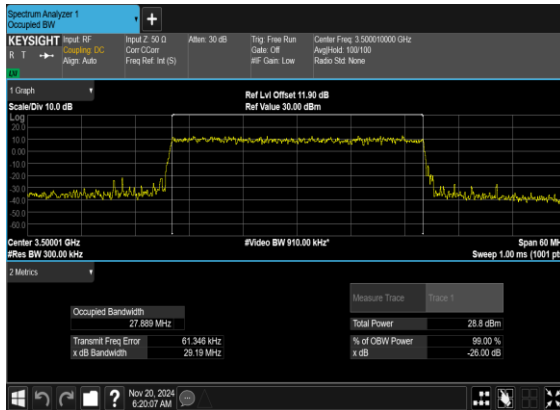
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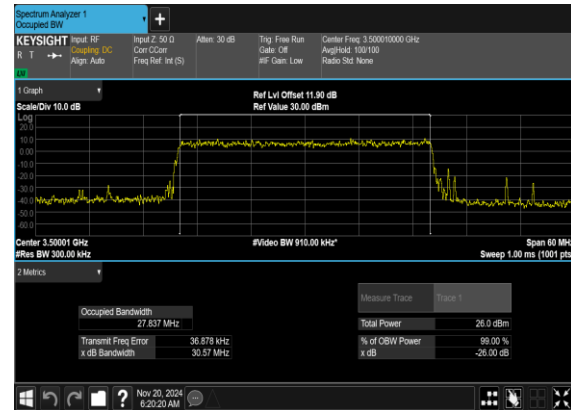
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QAM_Outer_Full_Mid_CH



N77(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

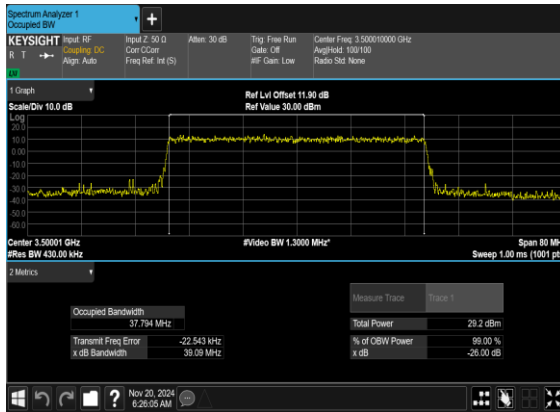


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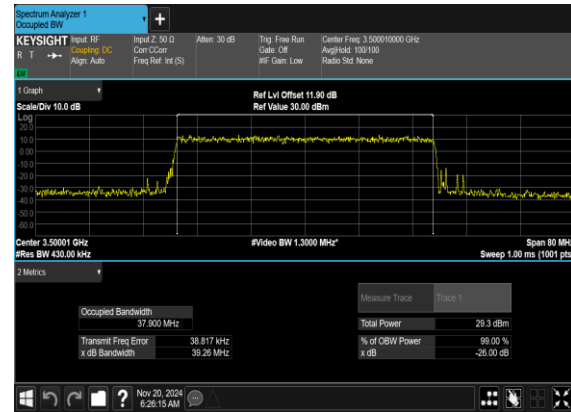




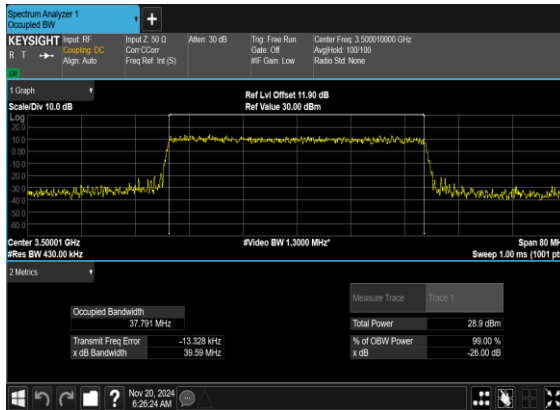
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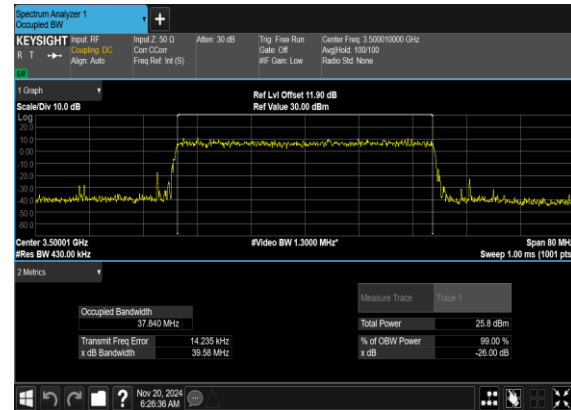
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QAM_Outer_Full_Mid_CH



N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

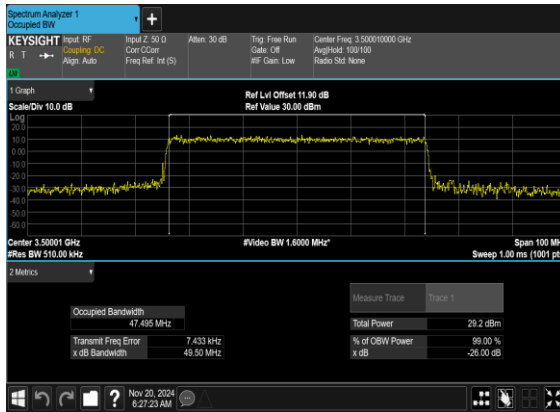


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QAM_Outer_Full_Mid_CH

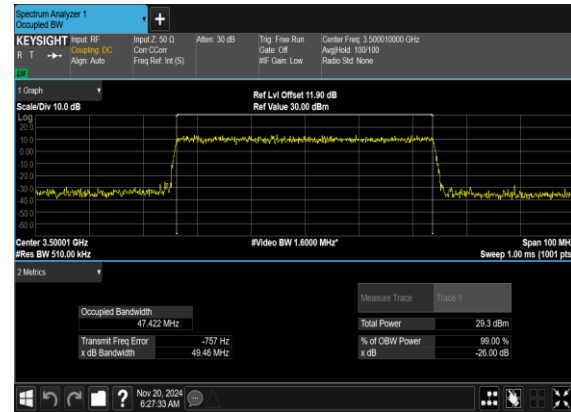




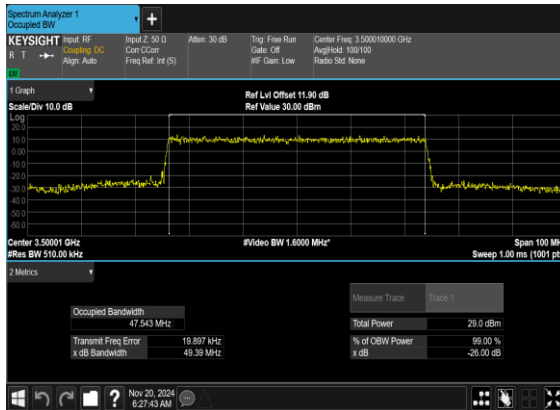
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OFDM_QPSK_Outer_Full_Mid_CH



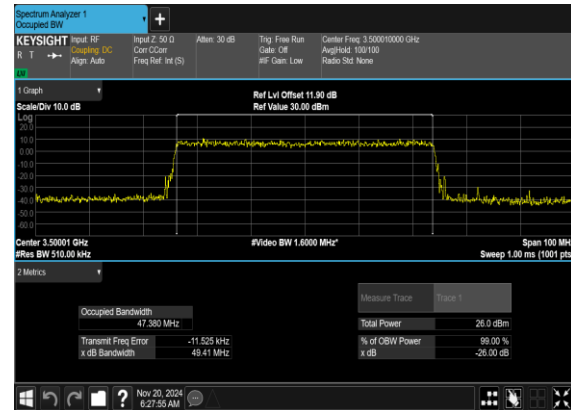
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QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

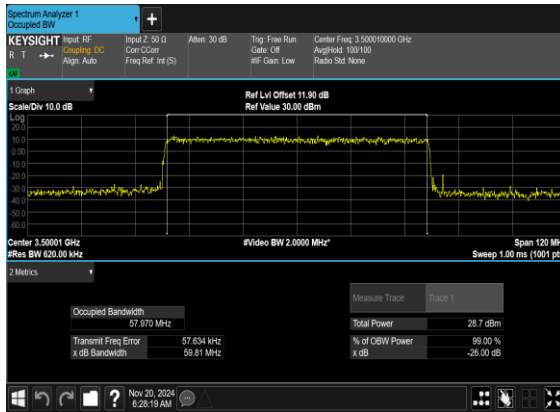


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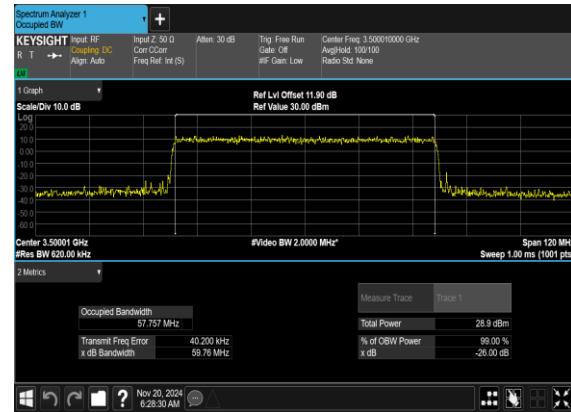




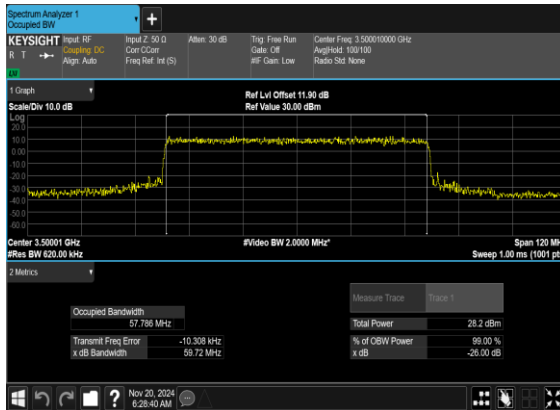
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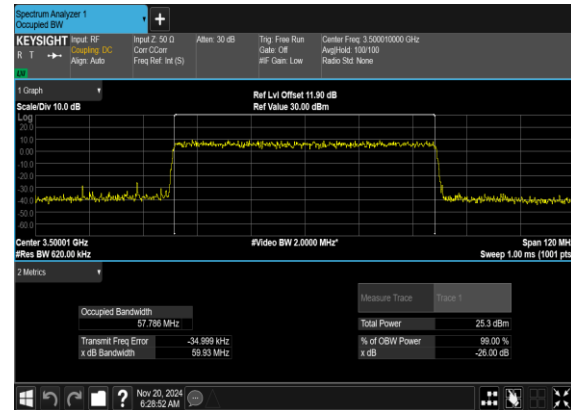
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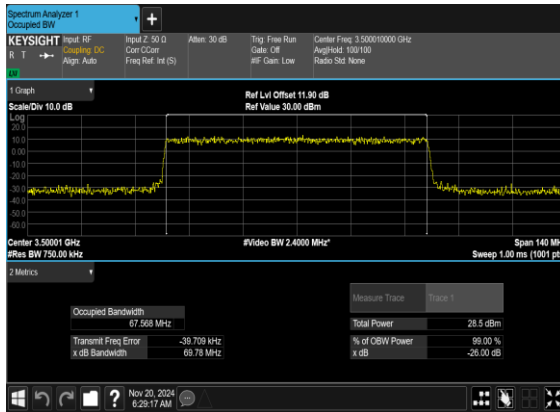


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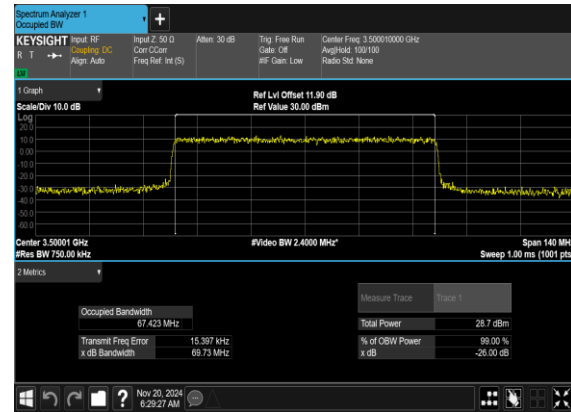




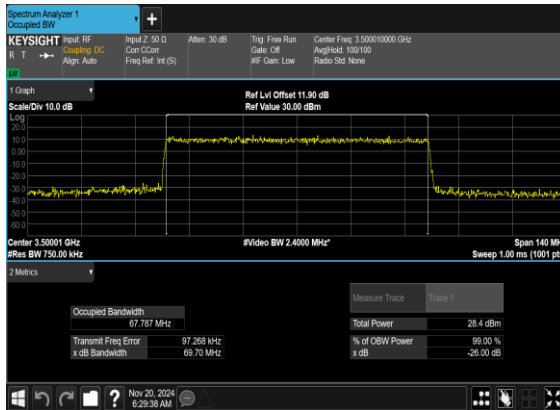
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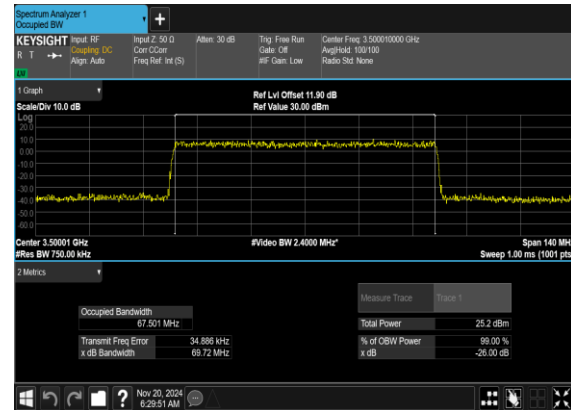
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N77(70M)_CP-OFDM_64
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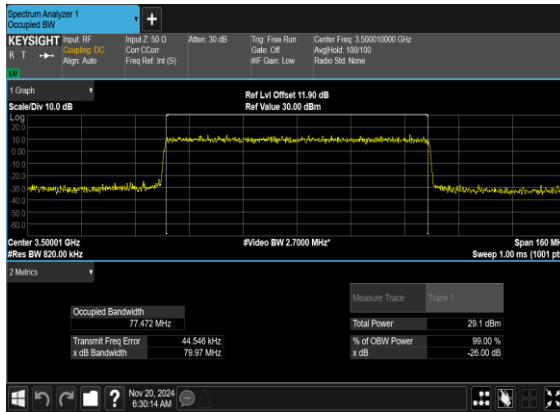


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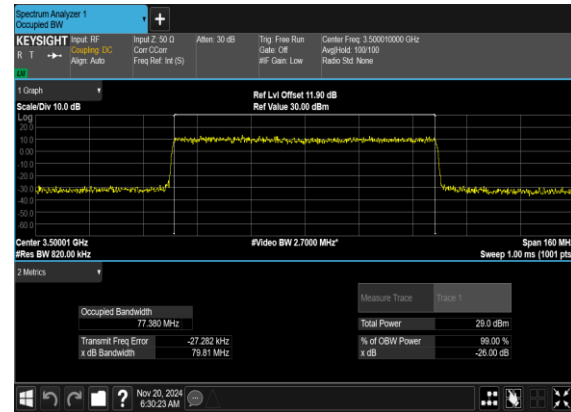




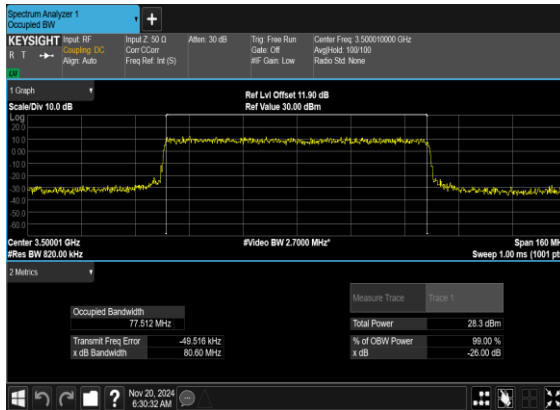
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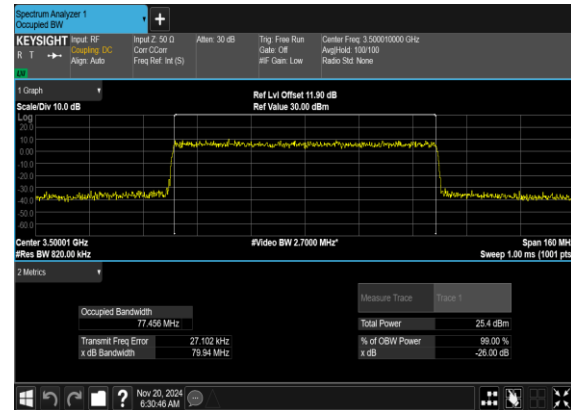
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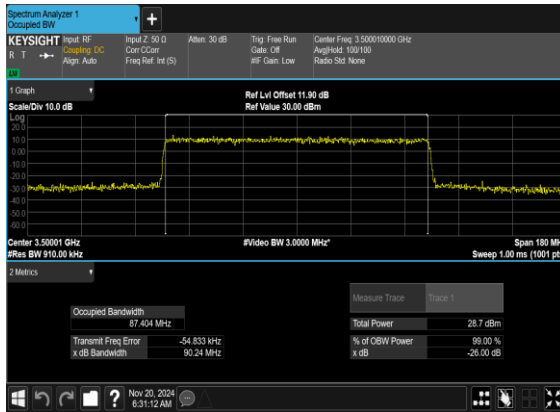


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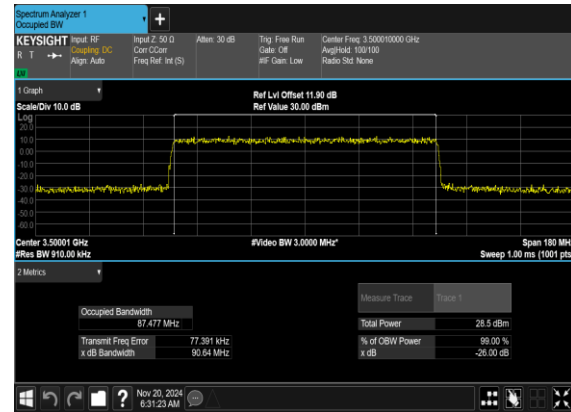




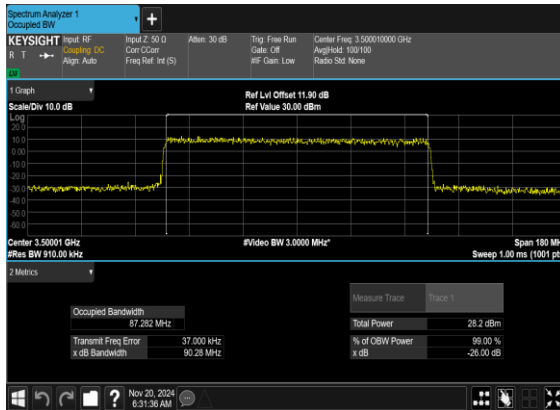
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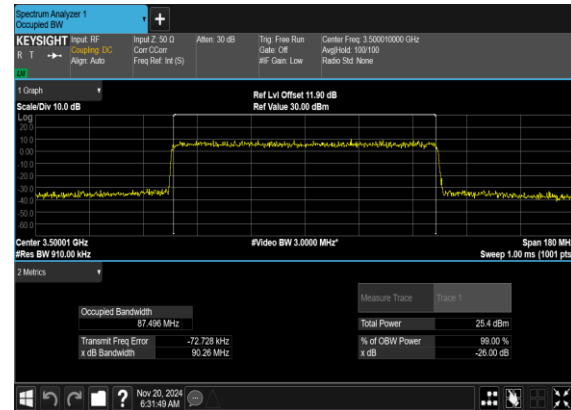
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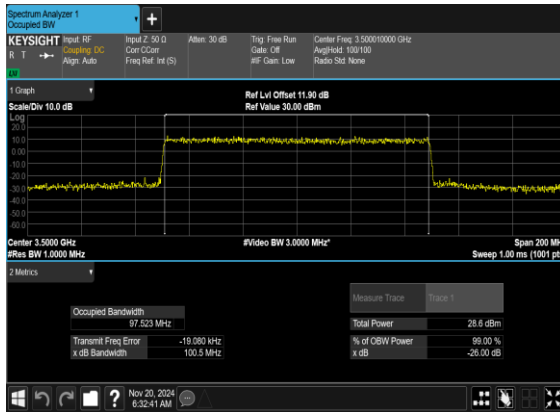


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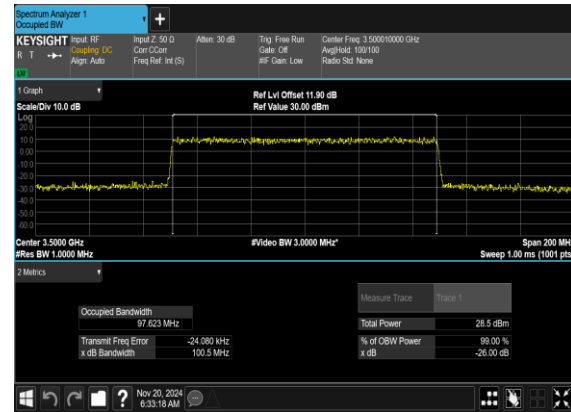




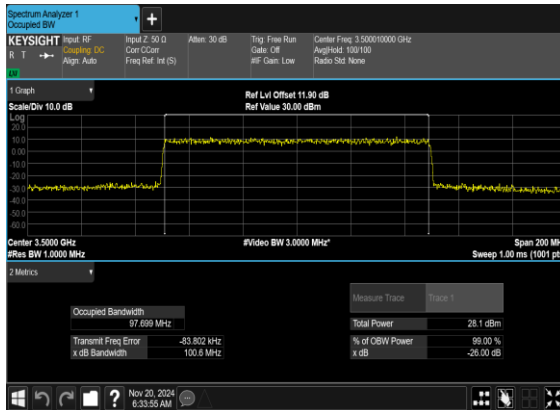
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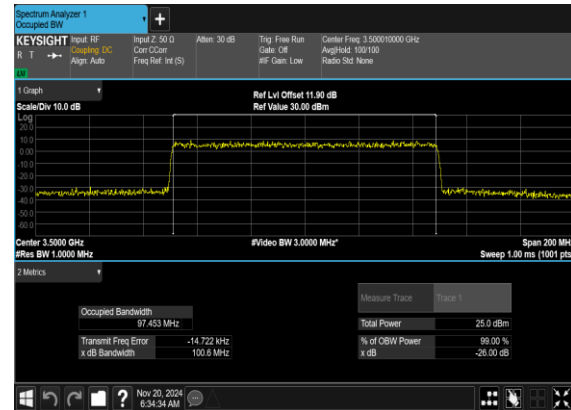
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QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH





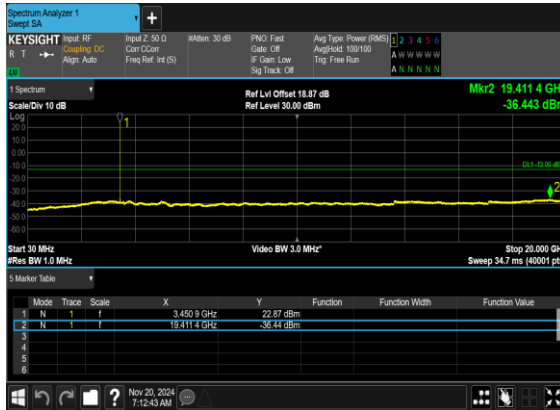
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	---
77	30	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	30	10	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	CP-OFDM QPSK	1@0	see graph	---
77	30	10	636332	3544.98	CP-OFDM QPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	CP-OFDM QPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	---
77	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	---
77	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS

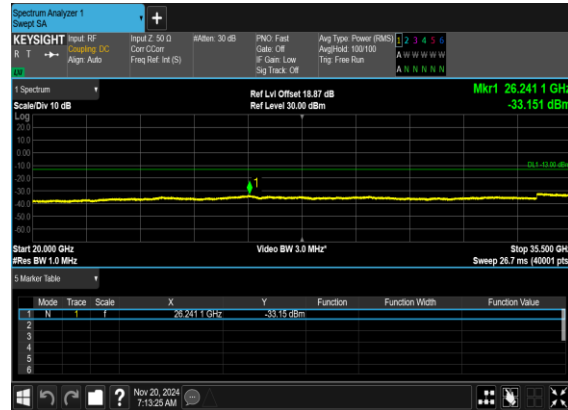


77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
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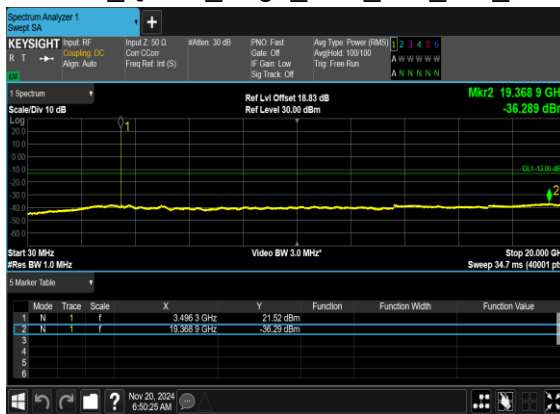
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



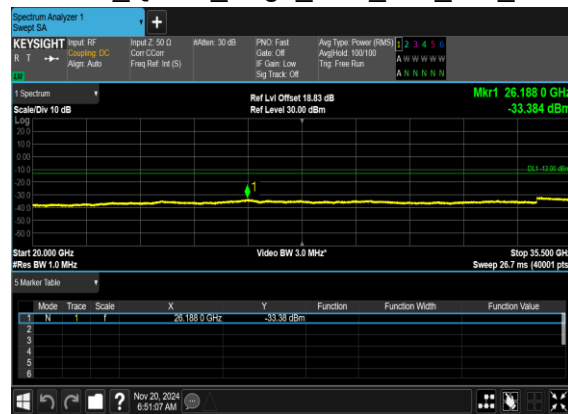
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

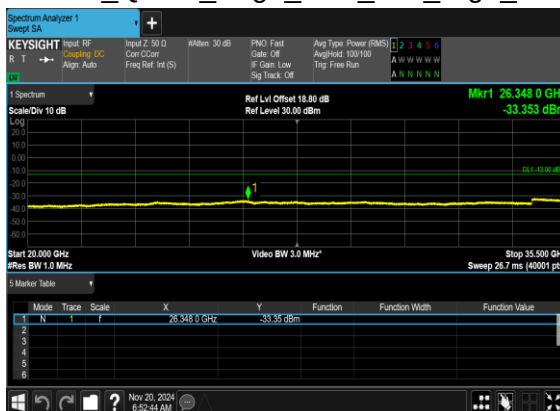




N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



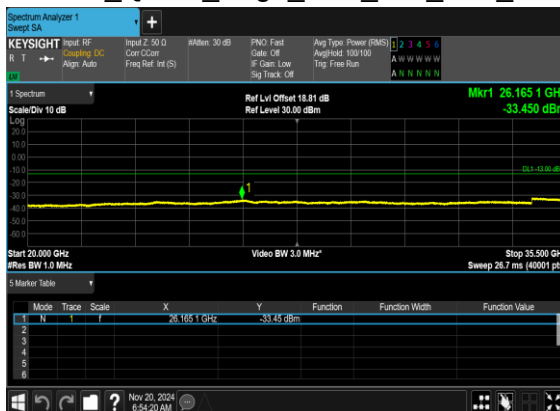
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH

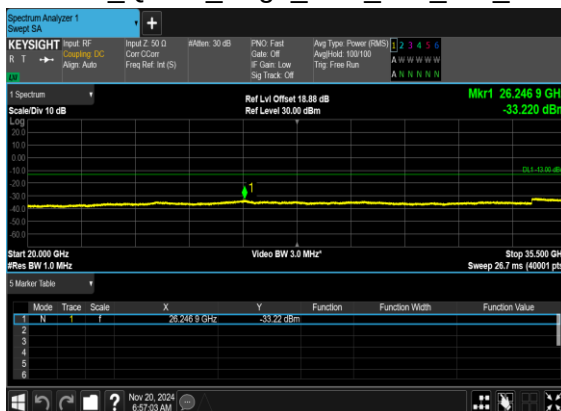




N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



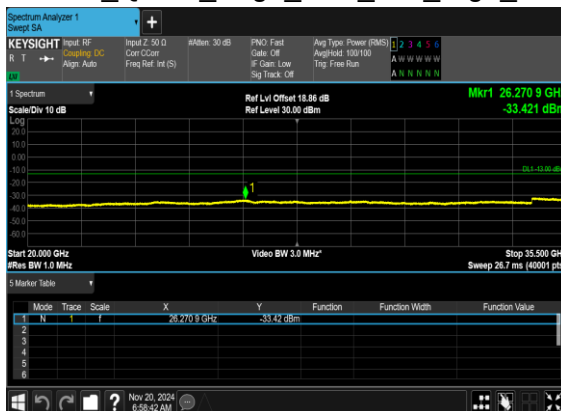
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH

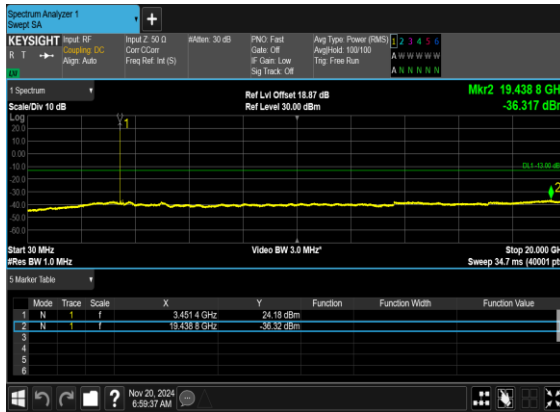


N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH





N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

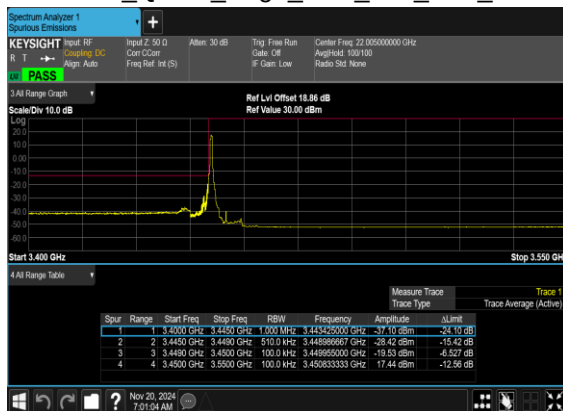


**Conducted Band Edge**

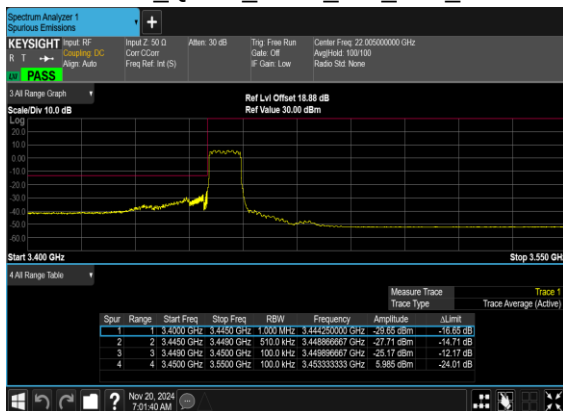
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	CP-OFDM QPSK	24@0	see graph	PASS
77	30	10	636332	3544.98	CP-OFDM QPSK	1@23	see graph	PASS
77	30	10	636332	3544.98	CP-OFDM QPSK	24@0	see graph	PASS
77	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	CP-OFDM QPSK	133@0	see graph	PASS
77	30	50	635000	3525.0	CP-OFDM QPSK	1@132	see graph	PASS
77	30	50	635000	3525.0	CP-OFDM QPSK	133@0	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	1@272	see graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	see graph	PASS



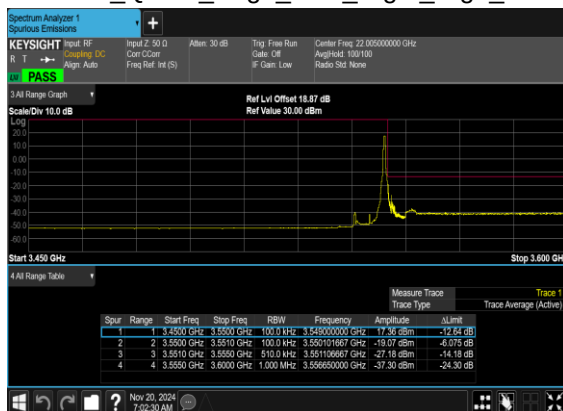
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



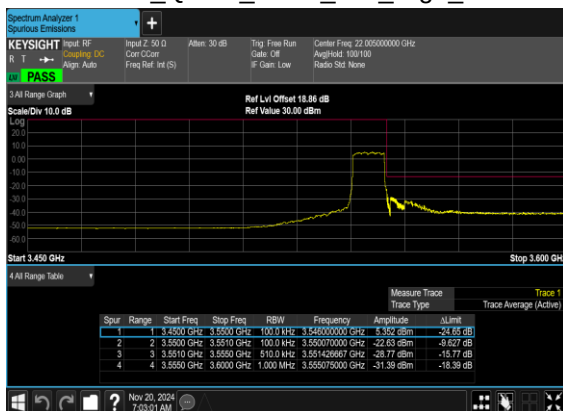
N77(10M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH

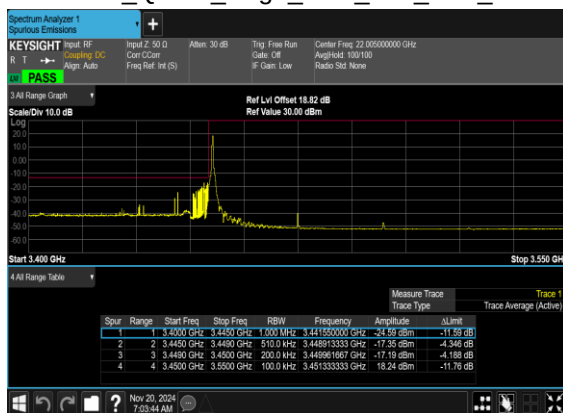


N77(10M)_CP-
OFDM_QPSK_Outer_Full_High_CH

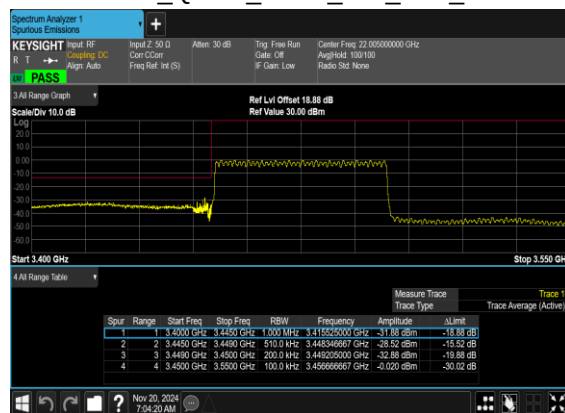




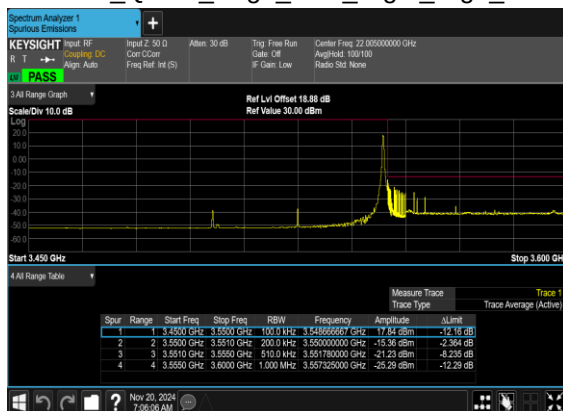
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



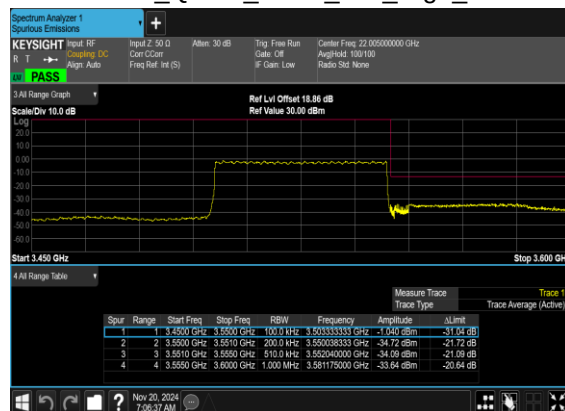
N77(50M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH

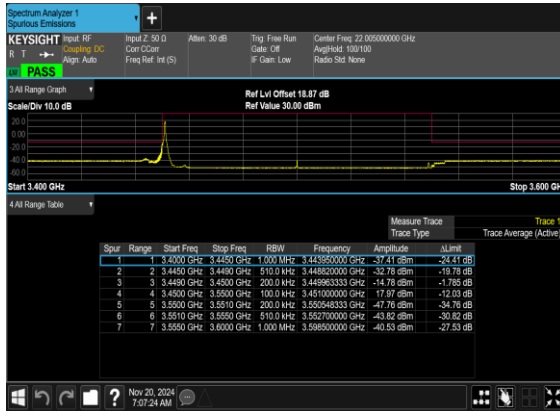


N77(50M)_CP-
OFDM_QPSK_Outer_Full_High_CH

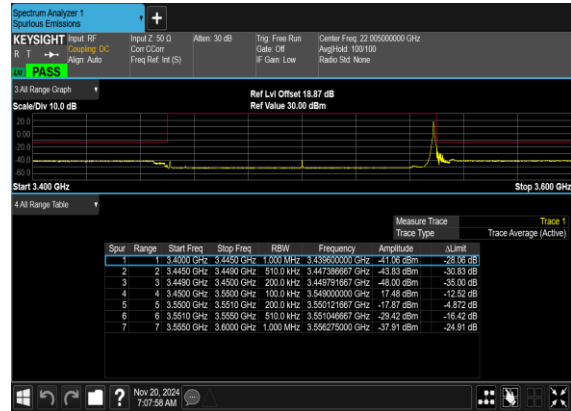




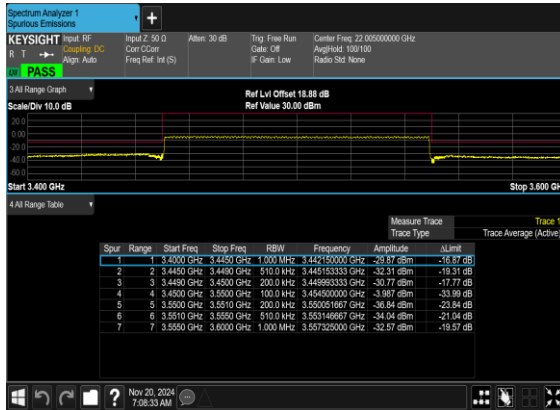
N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



N77(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH





Software Version: 23.06.1602

FR1 N77 MIMO-ANT10+4(10)

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	12.6	PASS	NV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	14.4	PASS	LV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	11.1	PASS	HV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	10.6	PASS	-30°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	16.1	PASS	-20°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	17.8	PASS	-10°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	13.1	PASS	0°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	16.4	PASS	10°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	11.1	PASS	20°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	13.4	PASS	30°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	16.9	PASS	40°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	19	PASS	50°C



Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	6.51	13	PASS

N77(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH





Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5791	9.906
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5928	9.847
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5654	9.464
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.5703	9.536
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.595	14.64
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.579	14.61
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.52	14.35
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.577	14.56
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.237	19.58
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.231	19.43
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.199	19.1
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.214	19.38
77	30	25	633334	3500.01	CP-OFDM QPSK	65@0	23.198	24.35
77	30	25	633334	3500.01	CP-OFDM 16 QAM	65@0	23.141	24.63
77	30	25	633334	3500.01	CP-OFDM 64 QAM	65@0	23.296	24.76
77	30	25	633334	3500.01	CP-OFDM 256 QAM	65@0	23.243	24.78
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.832	29.35
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.914	29.13
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.785	28.86
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.836	28.92
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.882	39.68
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.922	39.54

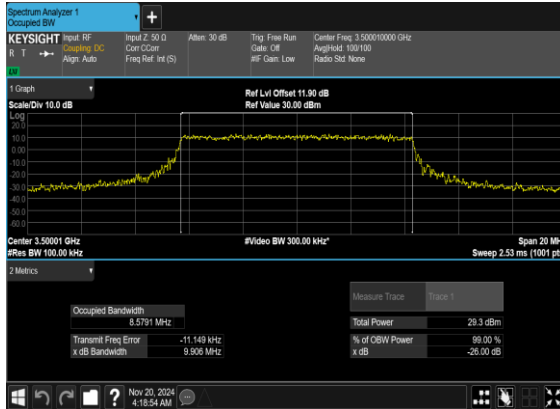


77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.757	39.49
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.808	39.49
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.488	48.94
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.601	49.38
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.478	49.01
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.711	49.02
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.78	59.69
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.848	60.55
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.94	60.56
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.862	59.93
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.502	69.71
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.574	69.92
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.397	69.81
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.518	69.78
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.606	80.13
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.52	79.82
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.802	80.06
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.341	79.92
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.347	90.24
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.48	90.23
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.683	90.21
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.499	90.3
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.414	100.7
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.81	100.6
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.651	100.6

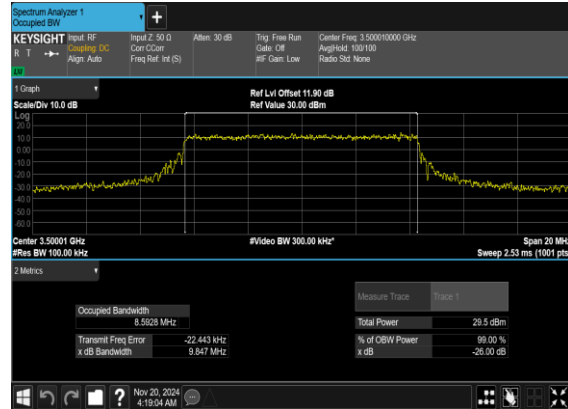


77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.363	100.5
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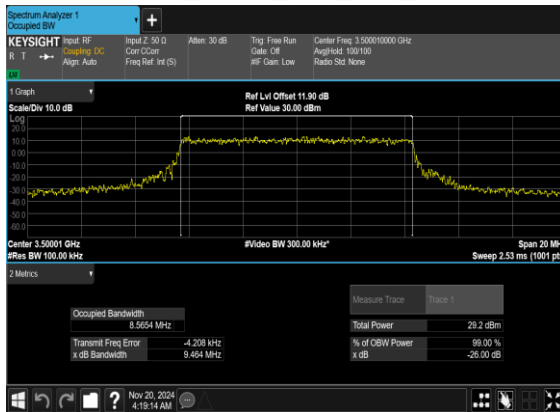
N77(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



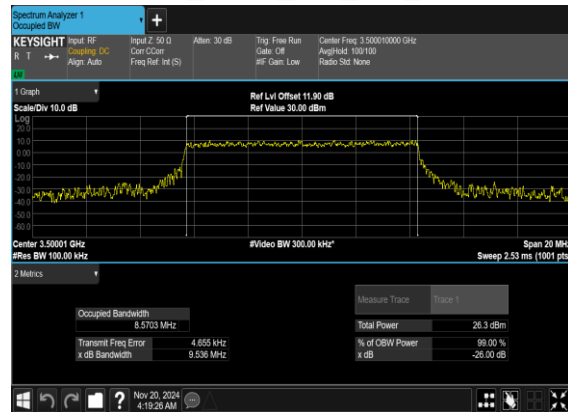
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QAM_Outer_Full_Mid_CH



N77(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

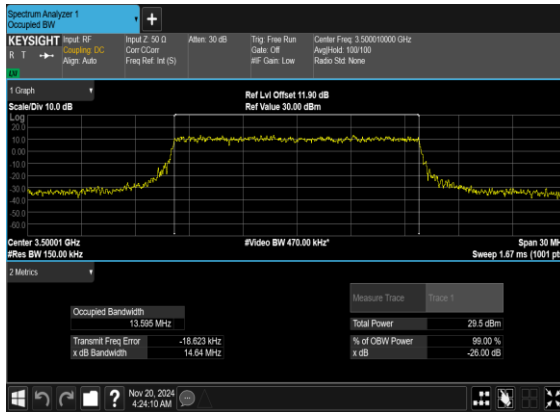


N77(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

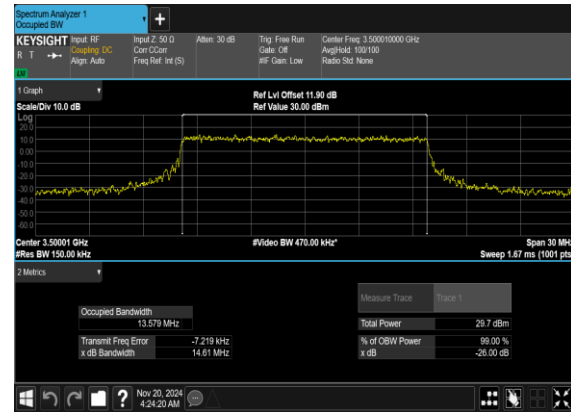




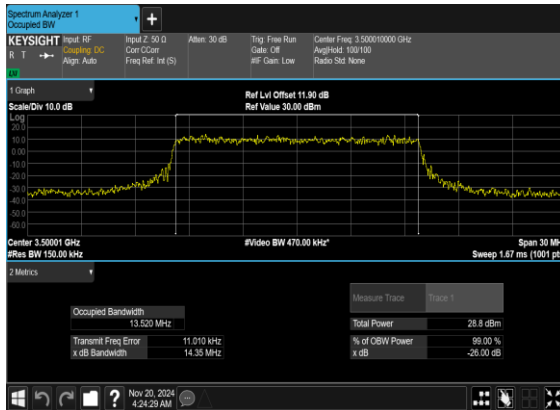
N77(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N77(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

