



77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	25.45	25.48	28.48	28.44	0.6975
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	2@0	19.07	19.53	22.32	22.28	0.1689
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	25.64	25.52	28.59	28.55	0.7163
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	2@131	19.39	19.53	22.47	22.43	0.1750
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	128@0	23.4	23.55	26.49	26.45	0.4412
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	23.93	24.59	27.28	27.24	0.5300
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	128@0	22.59	22.51	25.56	25.52	0.3565
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.52	25.64	28.59	28.55	0.7163
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	19.55	19.61	22.59	22.55	0.1799
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	25.36	25.7	28.54	28.50	0.7085
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	2@0	19.65	19.64	22.66	22.62	0.1826
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	25.56	25.9	28.74	28.70	0.7419
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	2@131	19.37	19.71	22.55	22.51	0.1784
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	128@0	23.65	23.89	26.78	26.74	0.4723
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.67	24.64	27.67	27.63	0.5788
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	128@0	22.69	22.84	25.78	25.74	0.3746
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	25.52	25.79	28.67	28.63	0.7290
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@0	19.29	19.89	22.61	22.57	0.1807
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	25.11	25.88	28.52	28.48	0.7051
77	30	50	635000	3525	DFT-s-OFDM QPSK	2@0	19.43	19.99	22.73	22.69	0.1858
77	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	25.62	25.98	28.81	28.77	0.7541
77	30	50	635000	3525	DFT-s-OFDM QPSK	2@131	19.23	19.84	22.56	22.52	0.1785
77	30	50	635000	3525	DFT-s-OFDM QPSK	128@0	23.64	24.06	26.87	26.83	0.4814
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	24.5	25.13	27.84	27.80	0.6021
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	128@0	22.6	23.05	25.84	25.80	0.3803
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	25.15	25.54	28.36	28.32	0.6792
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@0	19.03	19.56	22.31	22.27	0.1688
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	25.26	25.61	28.45	28.41	0.6932
77	30	60	632000	3480	DFT-s-OFDM QPSK	2@0	19.1	19.55	22.34	22.30	0.1699
77	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	25.63	25.46	28.56	28.52	0.7106
77	30	60	632000	3480	DFT-s-OFDM QPSK	2@160	19.25	19.61	22.44	22.40	0.1739
77	30	60	632000	3480	DFT-s-OFDM QPSK	162@0	23.54	23.63	26.60	26.56	0.4524
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	24.19	24.35	27.28	27.24	0.5298
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	162@0	22.48	22.56	25.53	25.49	0.3540
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.55	25.57	28.57	28.53	0.7129
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	19.42	19.52	22.48	22.44	0.1754
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	25.22	25.58	28.41	28.37	0.6877
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	2@0	19.45	19.58	22.53	22.49	0.1772
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	25.54	25.82	28.69	28.65	0.7333
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	2@160	19.36	19.45	22.42	22.38	0.1728
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	162@0	23.59	23.81	26.71	26.67	0.4647
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.55	24.69	27.63	27.59	0.5742



77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	162@0	22.61	22.73	25.68	25.64	0.3665
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	25.61	25.73	28.68	28.64	0.7313
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	19.56	19.8	22.69	22.65	0.1842
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	25.14	25.85	28.52	28.48	0.7047
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	2@0	19.59	19.85	22.73	22.69	0.1859
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	25.39	25.95	28.69	28.65	0.7327
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	2@160	19.22	19.83	22.55	22.51	0.1781
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	162@0	23.37	23.95	26.68	26.64	0.4613
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	24.6	25.03	27.83	27.79	0.6013
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	162@0	22.46	22.94	25.72	25.68	0.3696
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	25.15	25.64	28.41	28.37	0.6874
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@0	19.2	19.69	22.46	22.42	0.1747
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	25.32	25.51	28.43	28.39	0.6897
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	2@0	19.23	19.7	22.48	22.44	0.1755
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	25.68	25.64	28.67	28.63	0.7295
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	2@187	19.4	19.51	22.47	22.43	0.1748
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	180@0	23.56	23.66	26.62	26.58	0.4550
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	24.27	24.7	27.50	27.46	0.5573
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	180@0	22.55	22.62	25.60	25.56	0.3594
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.32	25.76	28.56	28.52	0.7105
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@0	19.4	19.73	22.58	22.54	0.1794
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@187	25.49	25.62	28.57	28.53	0.7122
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	2@0	19.47	19.78	22.64	22.60	0.1819
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	90@45	25.54	25.77	28.67	28.63	0.7289
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	2@187	19.39	19.62	22.52	22.48	0.1769
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	180@0	23.61	23.76	26.70	26.66	0.4630
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.35	24.89	27.64	27.60	0.5753
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	180@0	22.61	22.76	25.70	25.66	0.3678
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	25.76	25.79	28.79	28.75	0.7491
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@0	19.92	19.82	22.88	22.84	0.1923
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@187	25.25	25.77	28.53	28.49	0.7060
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	2@0	19.9	19.87	22.90	22.86	0.1930
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	90@45	25.56	25.94	28.76	28.72	0.7455
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	2@187	19.27	19.85	22.58	22.54	0.1795
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	180@0	23.63	23.9	26.78	26.74	0.4718
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	24.85	24.83	27.85	27.81	0.6040
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	180@0	22.6	22.95	25.79	25.75	0.3757
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	25.21	25.61	28.42	28.38	0.6894
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@0	19.22	19.75	22.50	22.46	0.1763
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	25.46	25.43	28.46	28.42	0.6943
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	2@0	19.29	19.77	22.55	22.51	0.1781
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	25.6	25.57	28.60	28.56	0.7170



77	30	80	632668	3490.02	DFT-s-OFDM QPSK	2@215	19.48	19.59	22.55	22.51	0.1781
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	216@0	23.6	23.7	26.66	26.62	0.4593
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	24.28	24.69	27.50	27.46	0.5572
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	216@0	22.6	22.64	25.63	25.59	0.3623
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.31	25.71	28.52	28.48	0.7055
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@0	19.28	19.75	22.53	22.49	0.1775
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	25.28	25.63	28.47	28.43	0.6964
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	2@0	19.33	19.73	22.54	22.50	0.1780
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	25.63	25.8	28.73	28.69	0.7389
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	2@215	19.46	19.71	22.60	22.56	0.1802
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	216@0	23.6	23.72	26.67	26.63	0.4603
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.22	24.72	27.49	27.45	0.5556
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	216@0	22.59	22.72	25.67	25.63	0.3652
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	25.55	25.76	28.67	28.63	0.7289
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@0	19.62	19.79	22.72	22.68	0.1852
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	25.29	25.74	28.53	28.49	0.7065
77	30	80	634000	3510	DFT-s-OFDM QPSK	2@0	19.7	19.81	22.77	22.73	0.1873
77	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	25.59	25.87	28.74	28.70	0.7417
77	30	80	634000	3510	DFT-s-OFDM QPSK	2@215	19.33	19.79	22.58	22.54	0.1793
77	30	80	634000	3510	DFT-s-OFDM QPSK	216@0	23.68	23.85	26.78	26.74	0.4716
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	24.62	24.81	27.73	27.69	0.5870
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	216@0	22.66	22.84	25.76	25.72	0.3734
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	25.22	25.71	28.48	28.44	0.6986
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@0	19.26	19.76	22.53	22.49	0.1773
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	25.14	25.53	28.35	28.31	0.6776
77	30	90	633000	3495	DFT-s-OFDM QPSK	2@0	19.32	19.81	22.58	22.54	0.1796
77	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	25.63	25.65	28.65	28.61	0.7262
77	30	90	633000	3495	DFT-s-OFDM QPSK	2@243	19.3	19.62	22.47	22.43	0.1751
77	30	90	633000	3495	DFT-s-OFDM QPSK	243@0	23.59	23.68	26.65	26.61	0.4577
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	24.12	24.77	27.47	27.43	0.5530
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	243@0	22.57	22.74	25.67	25.63	0.3653
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.14	25.71	28.44	28.40	0.6926
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@0	19.15	19.76	22.48	22.44	0.1752
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	25.26	25.71	28.50	28.46	0.7016
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	2@0	19.27	19.86	22.59	22.55	0.1797
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	25.62	25.77	28.71	28.67	0.7355
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	2@243	19.32	19.75	22.55	22.51	0.1783
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	243@0	23.63	23.68	26.67	26.63	0.4598
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.26	24.75	27.52	27.48	0.5600
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	243@0	22.62	22.7	25.67	25.63	0.3656
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	25.32	25.8	28.58	28.54	0.7140
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@0	19.25	19.75	22.52	22.48	0.1769



77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	25.18	25.68	28.45	28.41	0.6930
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	2@0	19.38	19.85	22.63	22.59	0.1816
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	25.62	25.85	28.75	28.71	0.7425
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	2@243	19.28	19.75	22.53	22.49	0.1775
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	243@0	23.62	23.86	26.75	26.71	0.4690
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	24.17	24.94	27.58	27.54	0.5679
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	243@0	22.62	22.83	25.74	25.70	0.3712
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.31	25.91	28.63	28.59	0.7229
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	19.98	20.52	23.27	23.23	0.2103
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	25.28	25.75	28.53	28.49	0.7066
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	2@0	20.09	20.58	23.35	23.31	0.2144
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	25.64	25.81	28.74	28.70	0.7407
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	2@271	19.98	20.49	23.25	23.21	0.2095
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	24.11	24.34	27.24	27.20	0.5244
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.21	25.92	28.59	28.55	0.7161
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	19.28	19.87	22.60	22.56	0.1801
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	25.34	25.76	28.57	28.53	0.7121
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	2@0	19.4	19.95	22.69	22.65	0.1842
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	25.74	25.92	28.84	28.80	0.7588
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	2@271	19.42	19.75	22.60	22.56	0.1802
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	23.59	23.84	26.73	26.69	0.4663
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.34	24.96	27.67	27.63	0.5796
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.45	23.12	25.81	25.77	0.3774
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.18	19.73	22.47	22.43	0.1751
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	270@0	22.68	22.88	25.79	25.75	0.3760
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	270@0	22.22	22.39	25.32	25.28	0.3370
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	270@0	19.75	19.91	22.84	22.80	0.1906
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	23.66	24.28	26.99	26.95	0.4956
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	19.14	19.71	22.44	22.40	0.1740
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	23.6	24.18	26.91	26.87	0.4864
77	30	100	633334	3500.01	CP-OFDM QPSK	2@0	19.34	19.87	22.62	22.58	0.1813
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	24.13	24.34	27.25	27.21	0.5256
77	30	100	633334	3500.01	CP-OFDM QPSK	2@271	19.33	19.73	22.54	22.50	0.1780
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	21.53	21.77	24.66	24.62	0.2899
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	23.17	23.96	26.59	26.55	0.4522
77	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	21.43	22.1	24.79	24.75	0.2984
77	30	100	633334	3500.01	CP-OFDM 256 QAM	1@1	17.4	17.92	20.68	20.64	0.1158
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	21.51	21.78	24.66	24.62	0.2896
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	21.51	21.86	24.70	24.66	0.2923
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	21.18	21.41	24.31	24.27	0.2671
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	17.73	17.92	20.84	20.80	0.1201

RF UL MIMO N77 ANT5

Frequency Stability

Test Result

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	18.6	PASS	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	14.1	PASS	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	13.0	PASS	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	12.0	PASS	-30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	15.0	PASS	-20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	18.7	PASS	-10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	16.4	PASS	0℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	13.9	PASS	10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	19.5	PASS	20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	12.7	PASS	30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	12.0	PASS	40℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	18.0	PASS	50℃

$|\text{MAX}(\Delta f)| = 18.7\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	3450.869177	$\geq 3450\text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	3549.07091	$\leq 3550\text{ MHz}$	



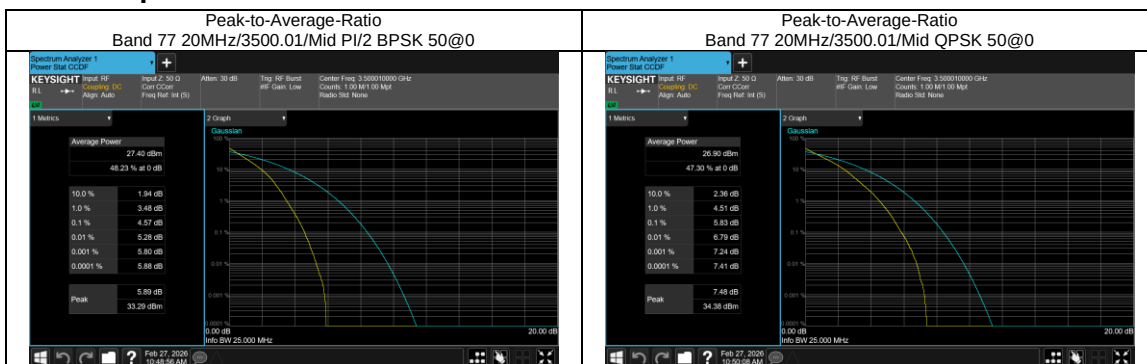
Peak to Average Ratio

Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	4.57	13
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	5.83	13



Test Graphs





Occupied Bandwidth

Test Result

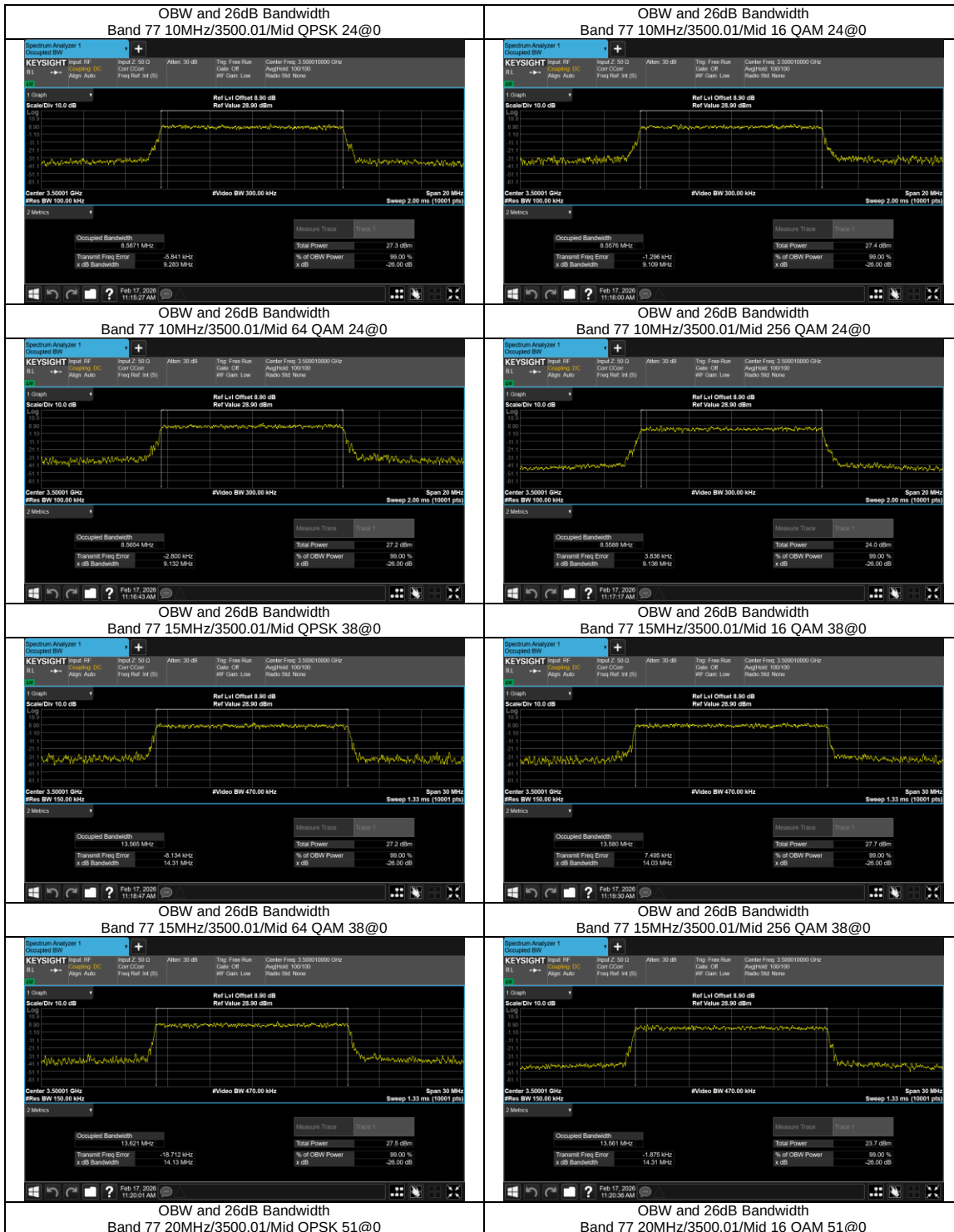
NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	OBW(MHz)	26dB OBW(MHz)
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.59	9.283
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.56	9.109
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.57	9.132
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.56	9.136
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.57	14.31
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.58	14.03
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.62	14.13
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.56	14.31
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.24	19.0
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.25	19.04
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.19	19.0
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.27	19.05
77	30	25	633334	3500.01	CP-OFDM QPSK	65@0	23.18	24.17
77	30	25	633334	3500.01	CP-OFDM 16 QAM	65@0	23.21	24.07
77	30	25	633334	3500.01	CP-OFDM 64 QAM	65@0	23.2	24.06
77	30	25	633334	3500.01	CP-OFDM 256 QAM	65@0	23.27	24.16
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.78	28.96
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.83	28.93
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.74	29.02
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.88	28.92
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.76	39.27
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.83	39.28
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.73	39.21
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.81	39.11
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.42	49.02
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.46	48.91
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.47	49.14
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.42	49.08
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.7	59.55
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.62	59.57
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.74	59.7
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.72	59.54
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.39	69.55
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.39	69.55
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.43	69.57

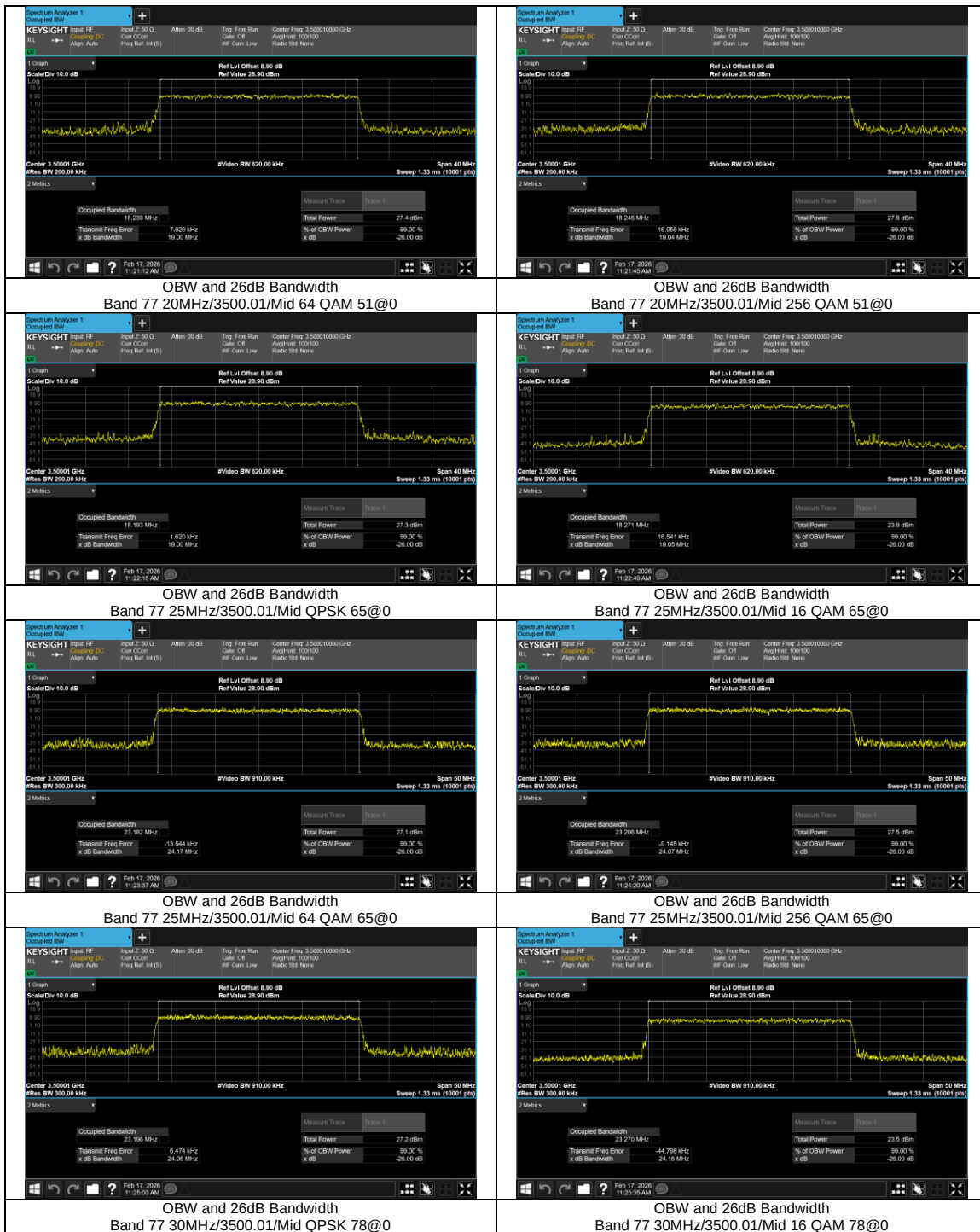


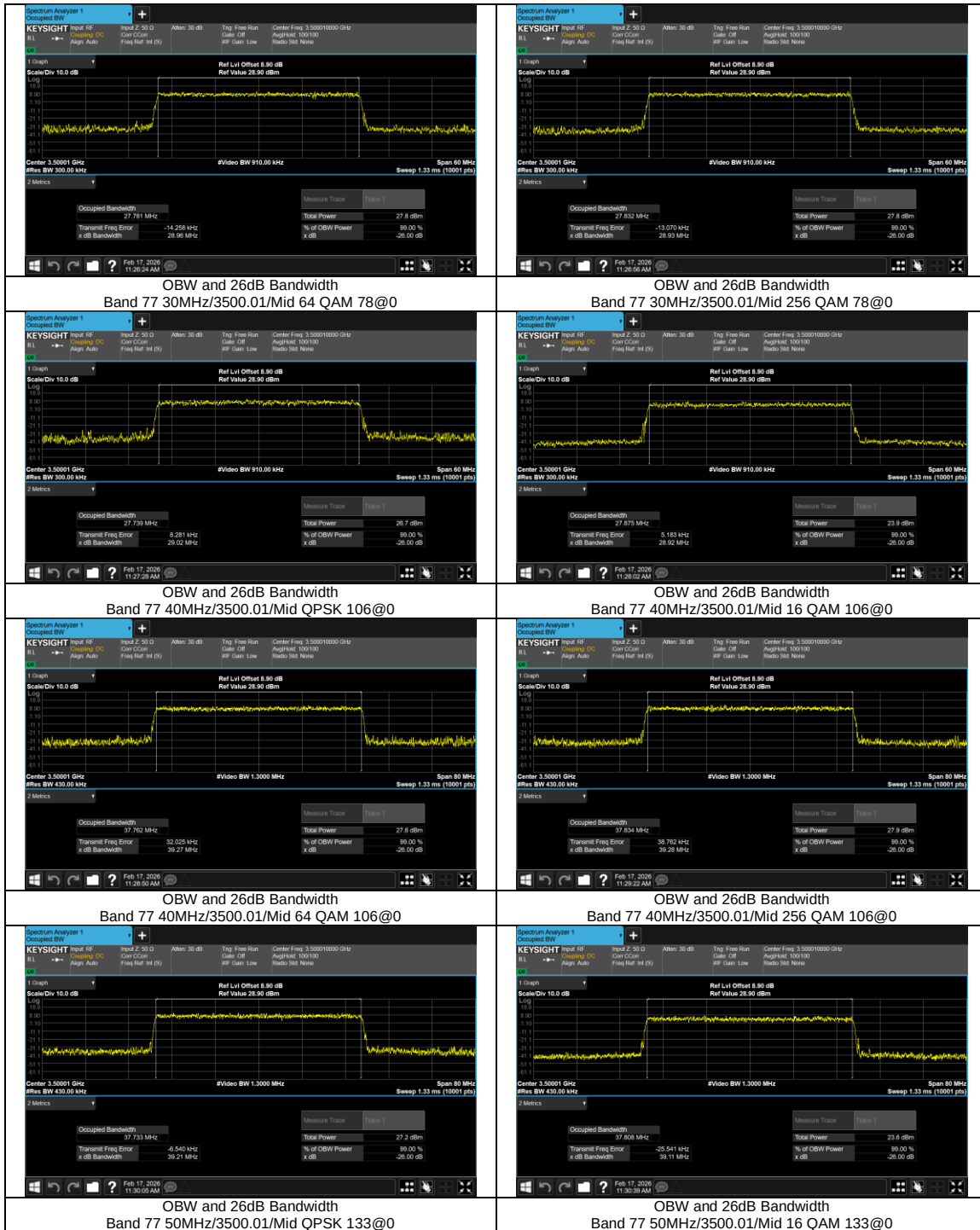
					QAM			
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.43	69.49
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.43	79.94
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.36	79.73
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.51	79.88
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.44	79.82
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.23	90.11
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.44	90.0
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.42	90.08
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.39	90.01
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.27	100.3
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.29	100.2
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.28	100.3
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.34	100.3

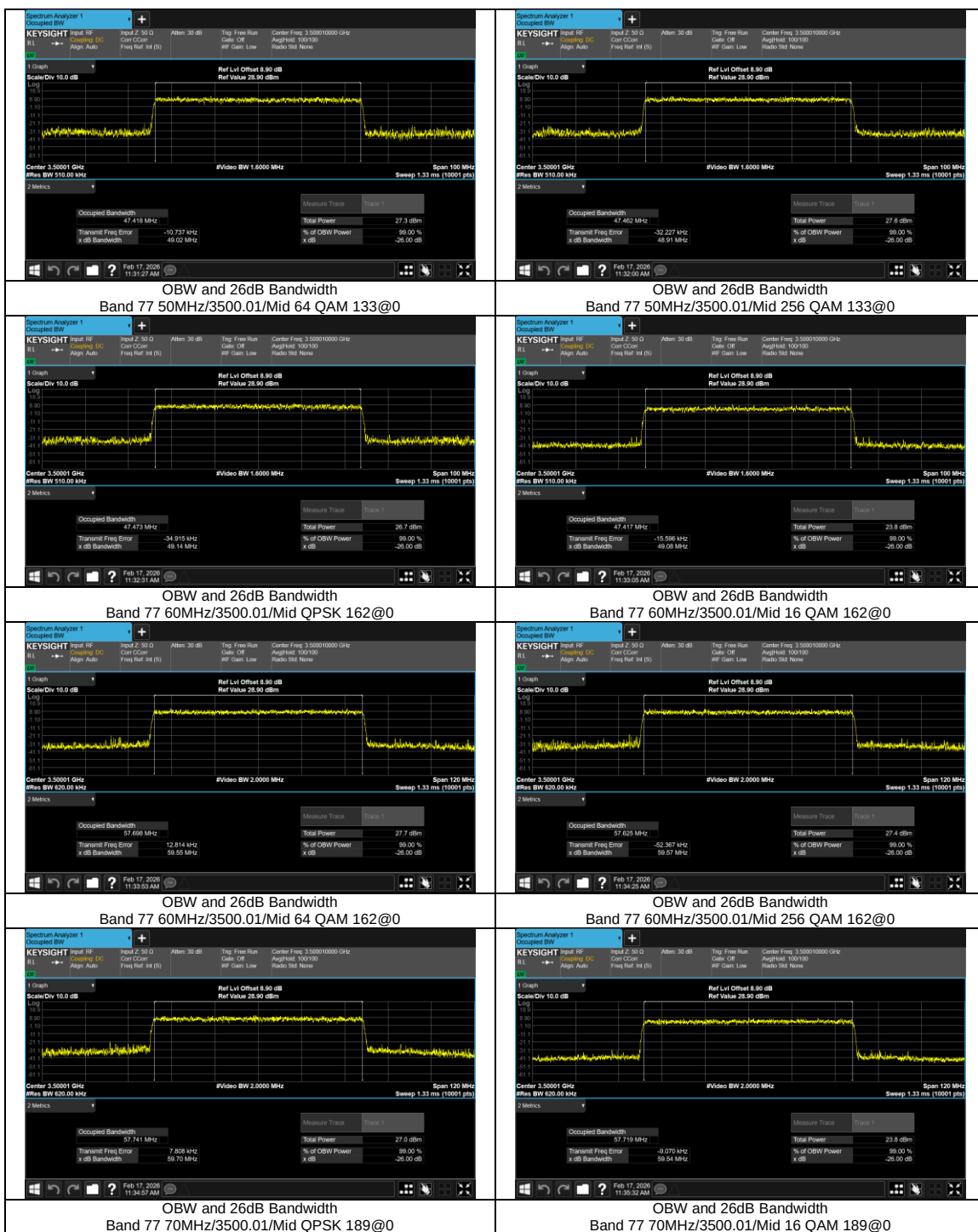


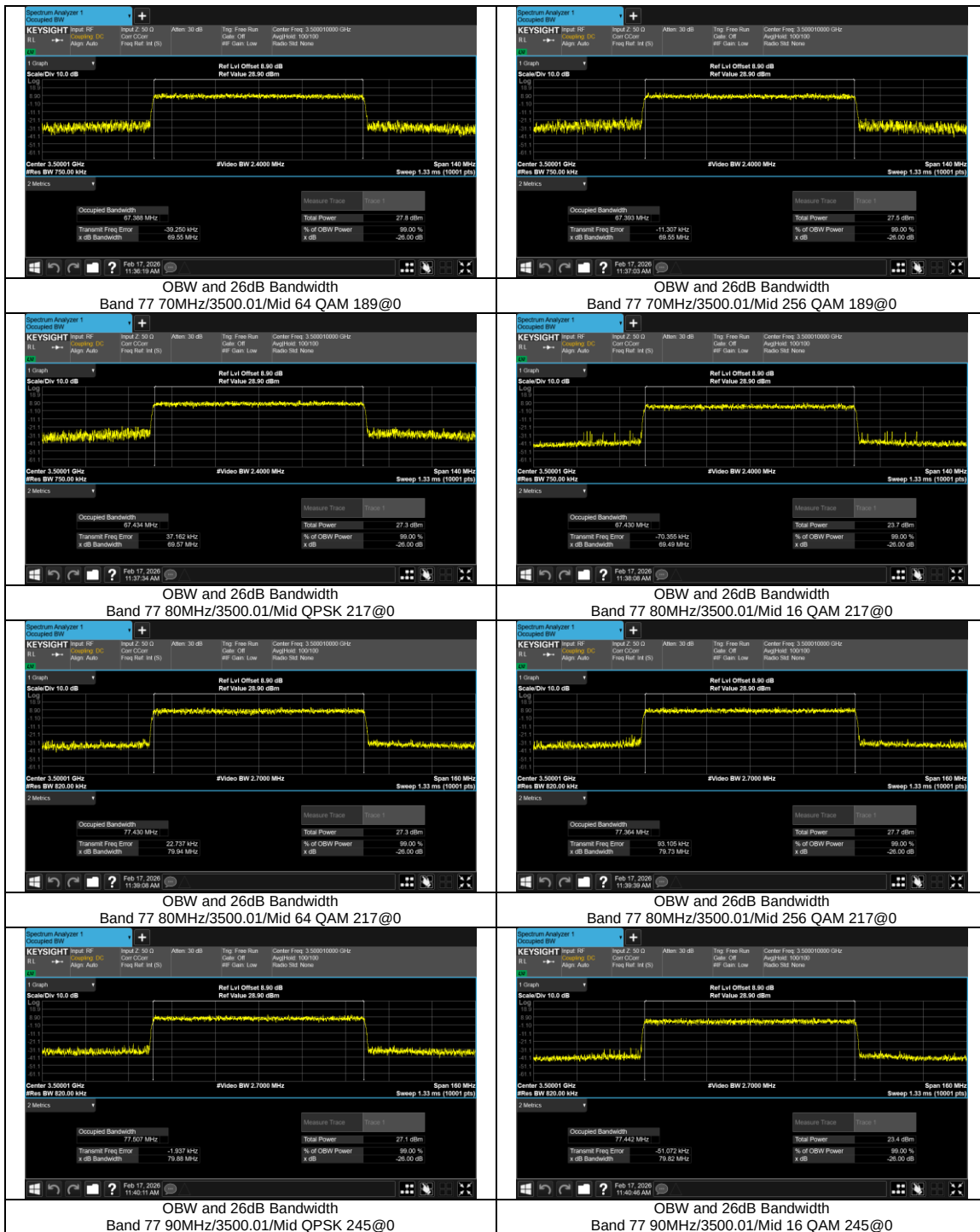
Test Graphs

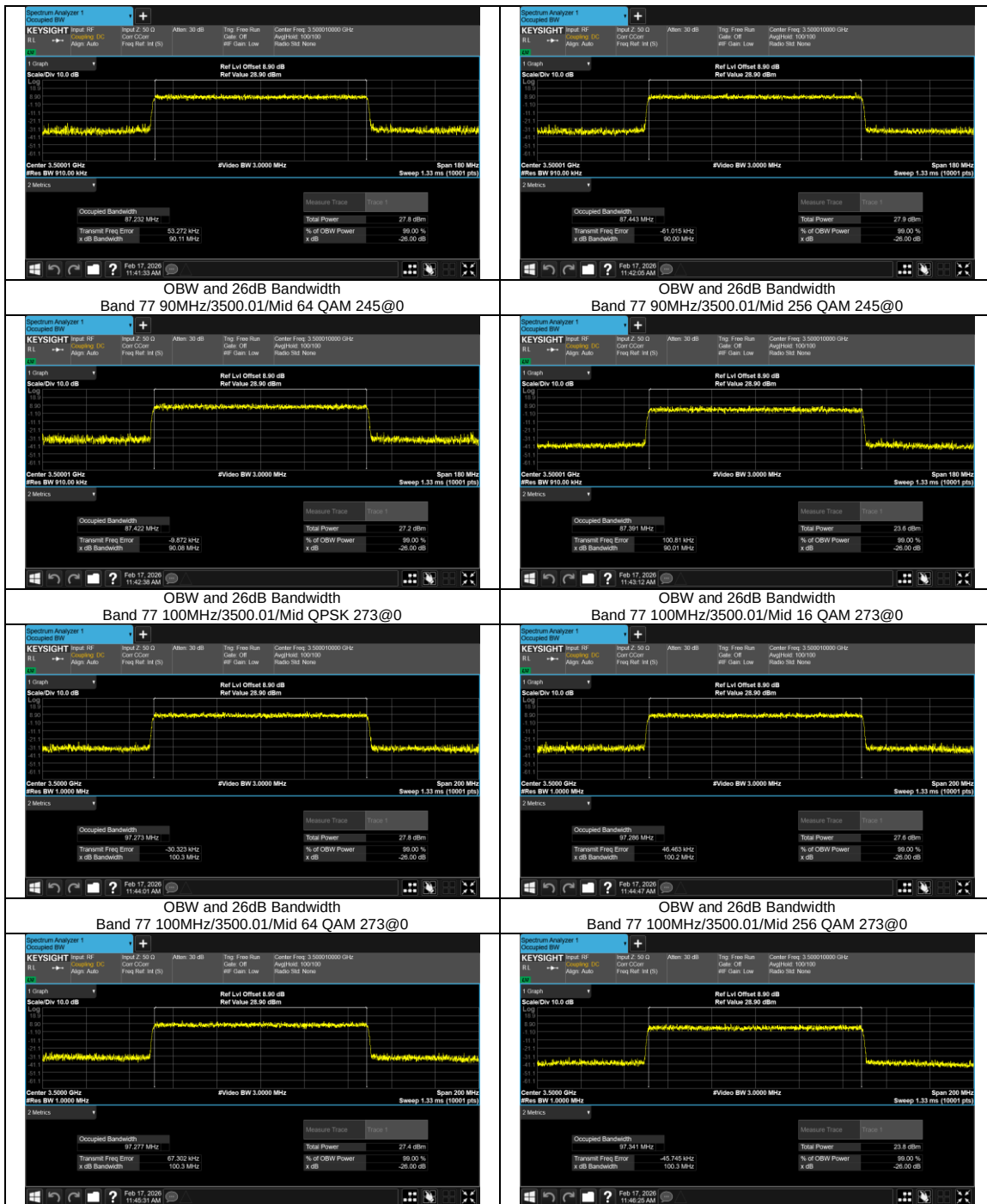














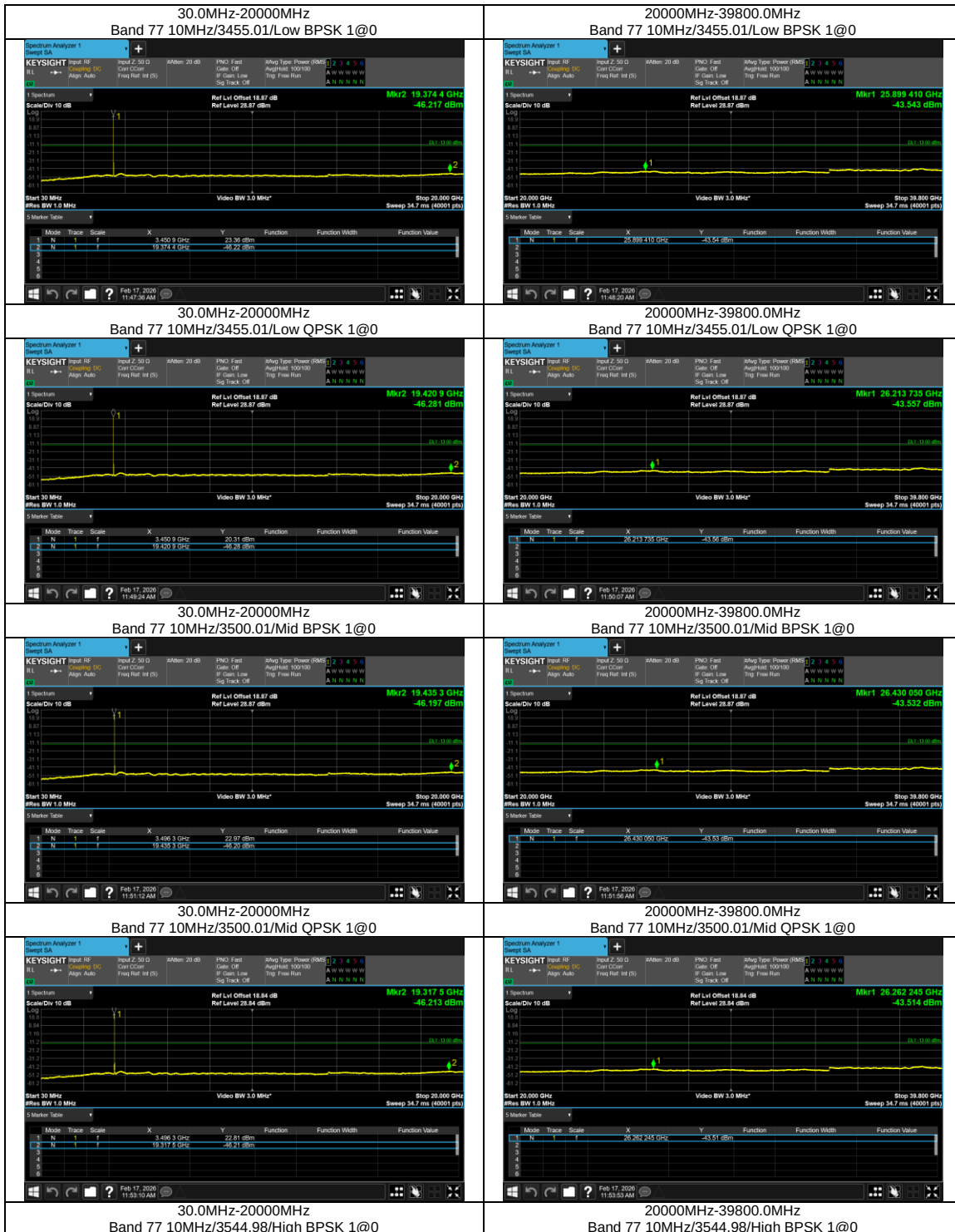
Conducted Spurious Emissions

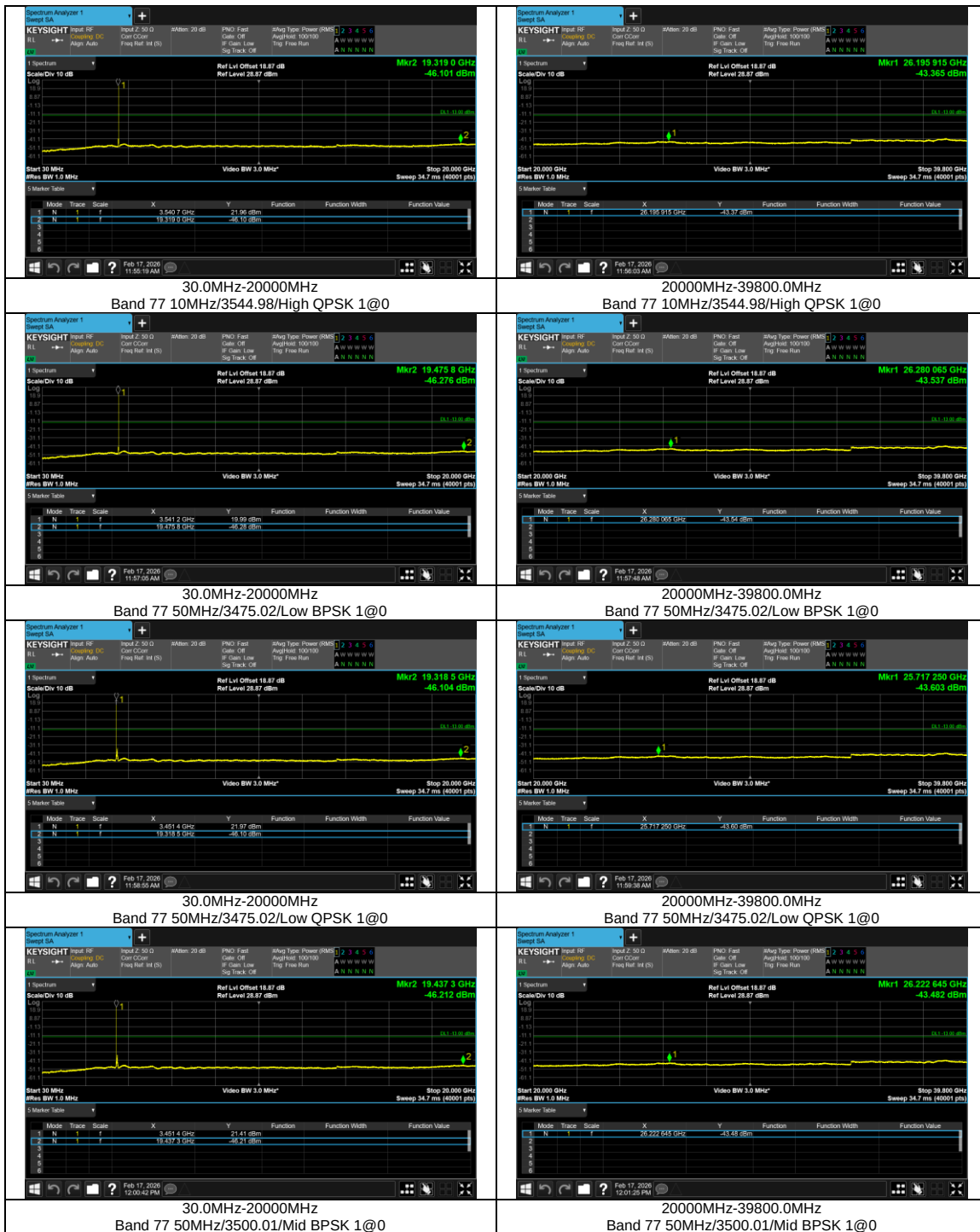
Test Result

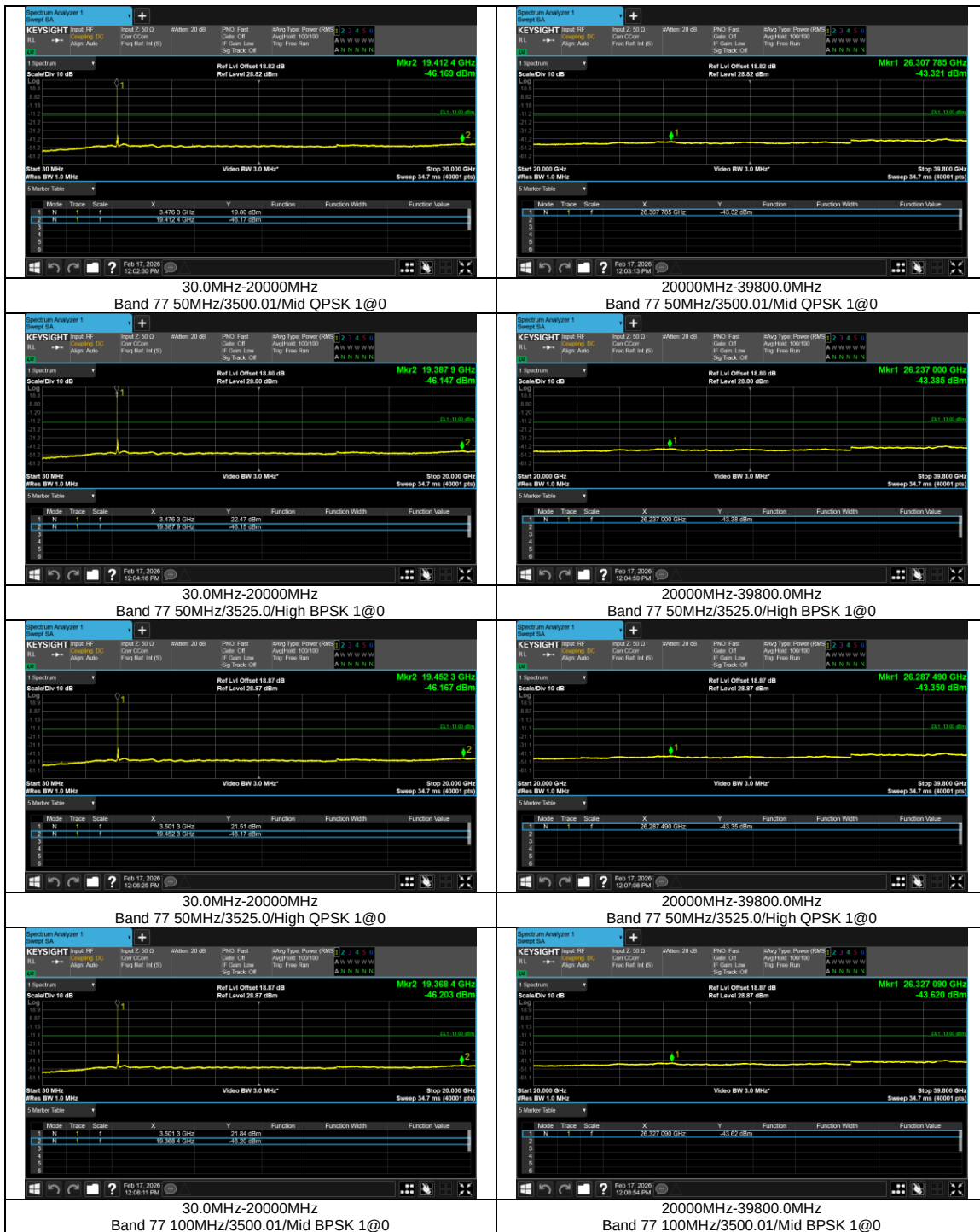
NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	See graph	---
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	See graph	---
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	See graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	---
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	See graph	---
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	See graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	See graph	---
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	See graph	---
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	See graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	See graph	---
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	See graph	---
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	See graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	---
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	See graph	---
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	See graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	See graph	---
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	See graph	---
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	See graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	---
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	PASS

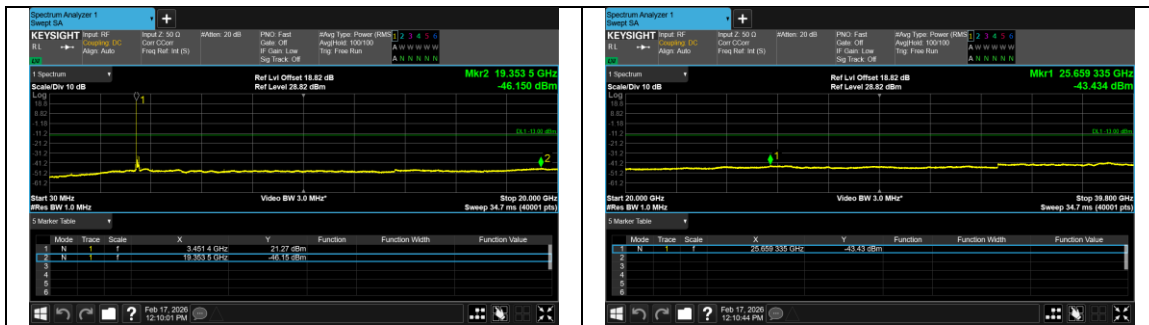


Test Graphs











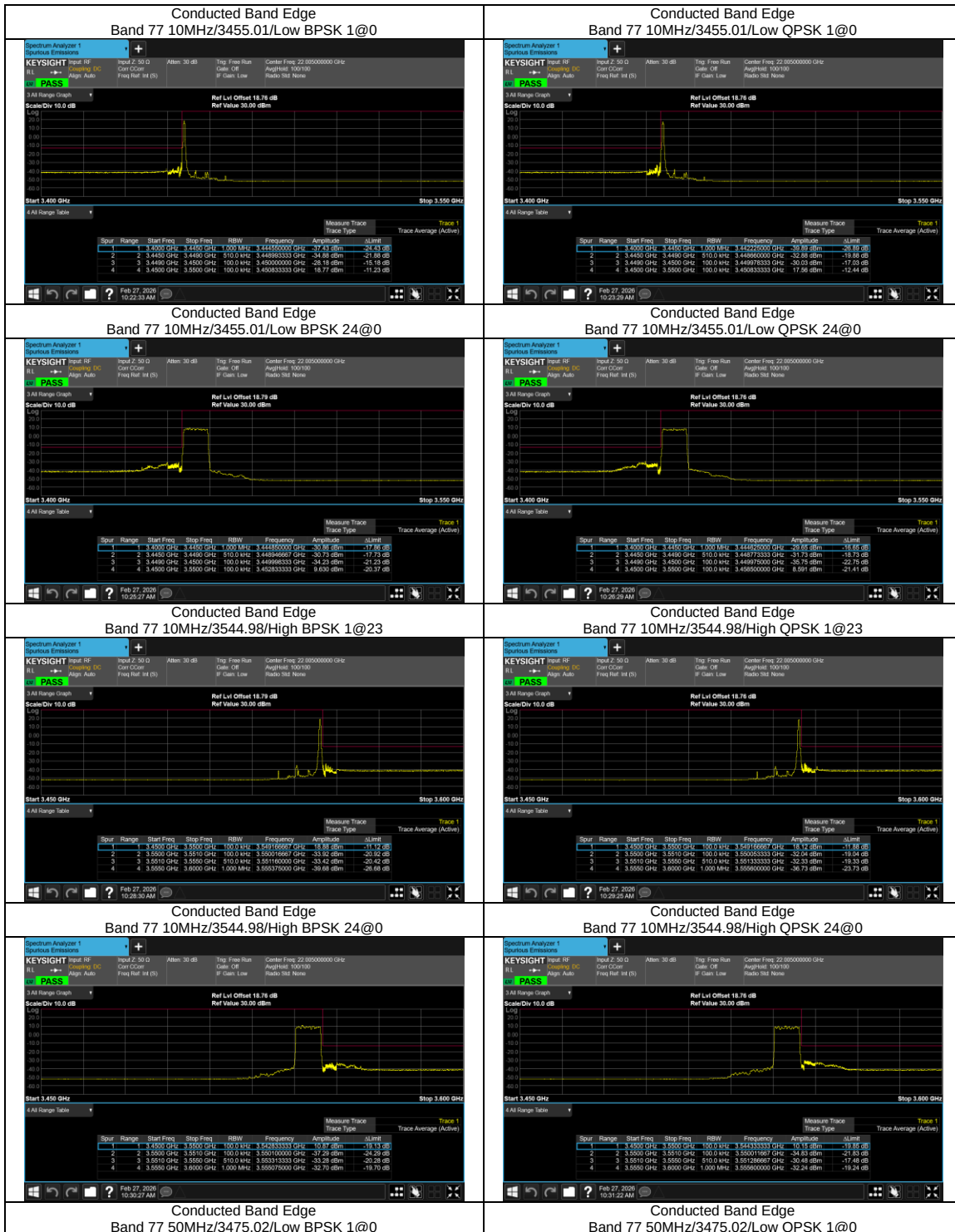
Conducted Band Edge

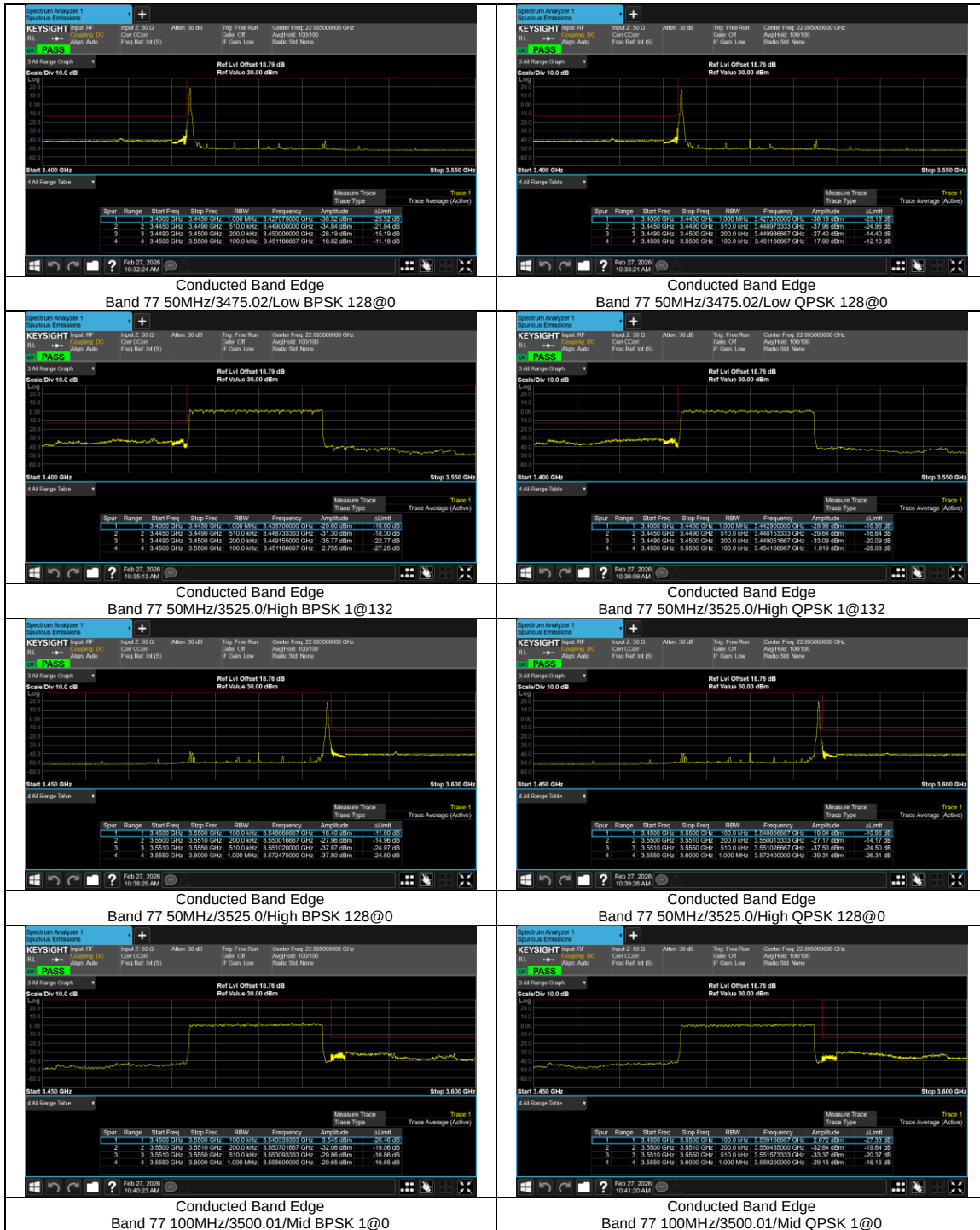
Test Result

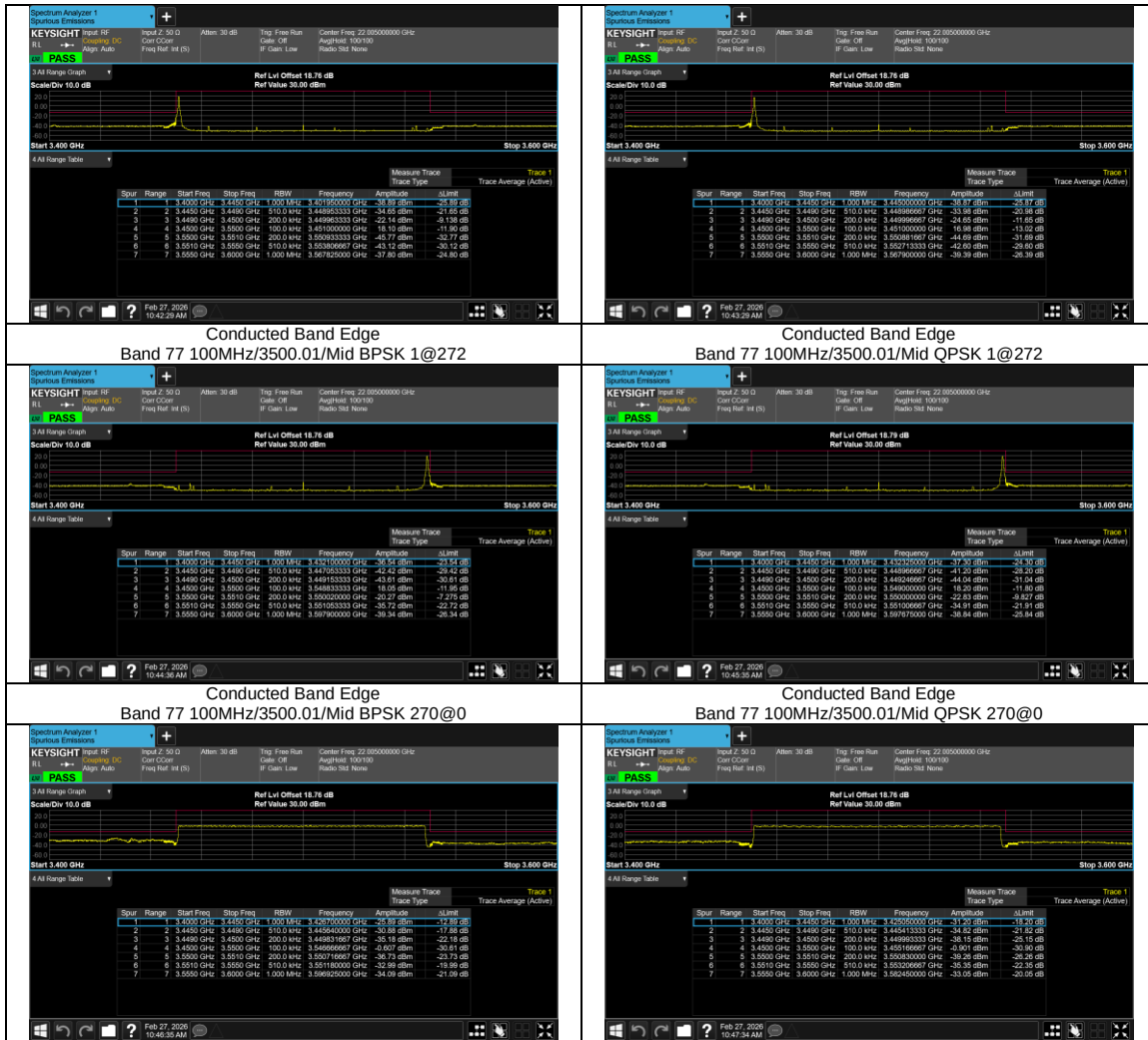
NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	See graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	24@0	See graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	24@0	See graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@23	See graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@23	See graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	24@0	See graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	24@0	See graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	See graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	128@0	See graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	128@0	See graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@132	See graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@132	See graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	128@0	See graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	128@0	See graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	See graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@272	See graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	See graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	270@0	See graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	See graph	PASS



Test Graphs









RF UL MIMO N77 ANT7

Frequency Stability

Test Result

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	15.2	PASS	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	11.6	PASS	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	11.3	PASS	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	19.5	PASS	-30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	16.7	PASS	-20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	16.9	PASS	-10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	12.9	PASS	0℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	14.4	PASS	10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	15.2	PASS	20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	12.7	PASS	30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	17.2	PASS	40℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	16.3	PASS	50℃

|MAX(Δf)| = 19.5Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	3450.869192	$\geq 3450 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	3549.07086	$\leq 3550 \text{ MHz}$	



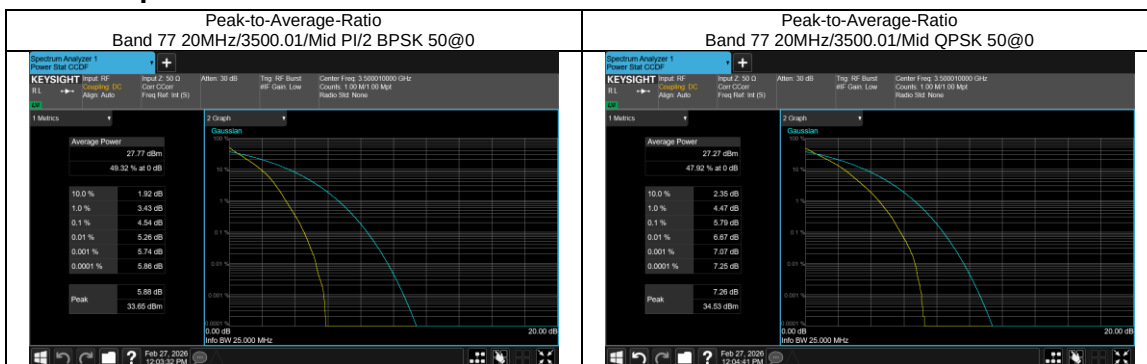
Peak to Average Ratio

Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	4.54	13
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	5.79	13



Test Graphs





Occupied Bandwidth

Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	OBW(MHz)	26dB OBW(MHz)
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.56	9.45
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.57	8.97
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.6	9.044
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.56	9.058
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.52	14.17
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.63	14.39
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.6	14.16
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.57	14.31
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.22	18.96
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.17	18.88
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.21	18.93
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.18	19.12
77	30	25	633334	3500.01	CP-OFDM QPSK	65@0	23.19	24.23
77	30	25	633334	3500.01	CP-OFDM 16 QAM	65@0	23.16	24.16
77	30	25	633334	3500.01	CP-OFDM 64 QAM	65@0	23.21	24.02
77	30	25	633334	3500.01	CP-OFDM 256 QAM	65@0	23.22	24.25
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.88	29.17
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.86	28.79
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.74	28.86
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.83	28.96
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.83	39.05
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.76	39.13
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.84	39.33
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.73	39.23
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.33	48.91
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.54	49.24
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.45	48.98
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.35	49.1
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.75	59.57
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.74	59.55
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.88	59.65
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.67	59.57
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.46	69.61
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.38	69.5
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.47	69.56



					QAM			
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.43	69.59
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.56	79.77
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.48	79.76
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.36	79.89
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.49	79.69
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.5	89.88
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.48	90.06
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.27	90.01
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.29	90.04
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.23	100.3
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.46	100.2
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.27	100.3
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.33	100.3



Test Graphs

