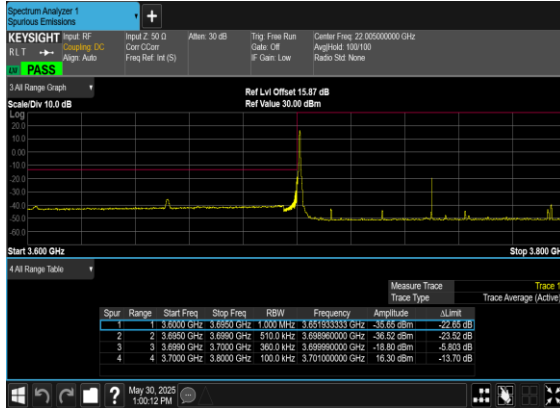
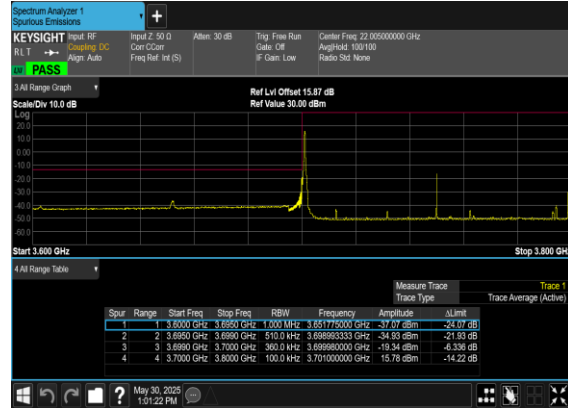




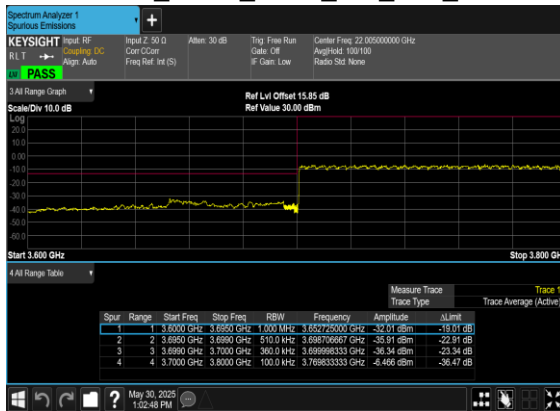
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



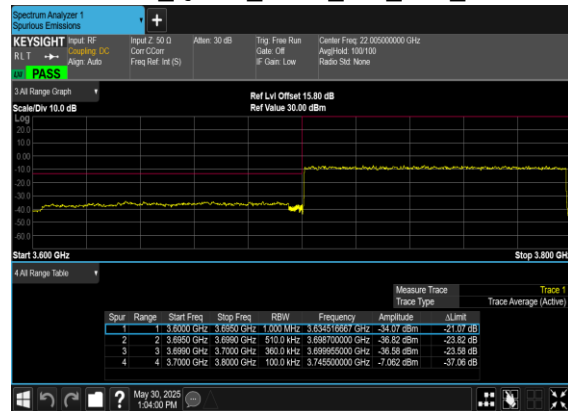
N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(100M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

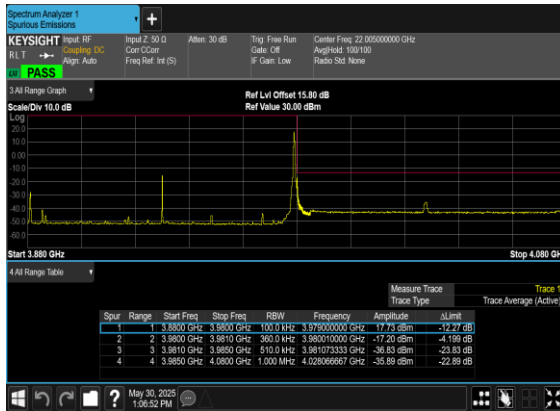


N77(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

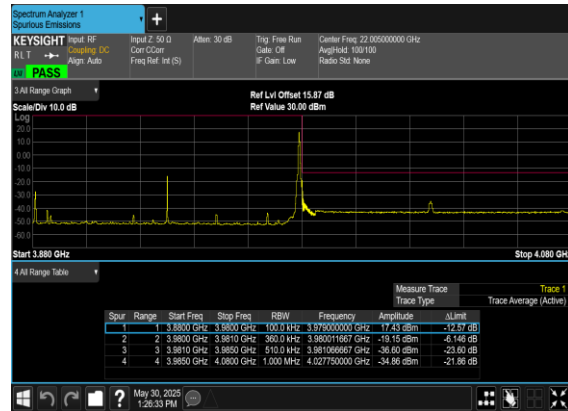




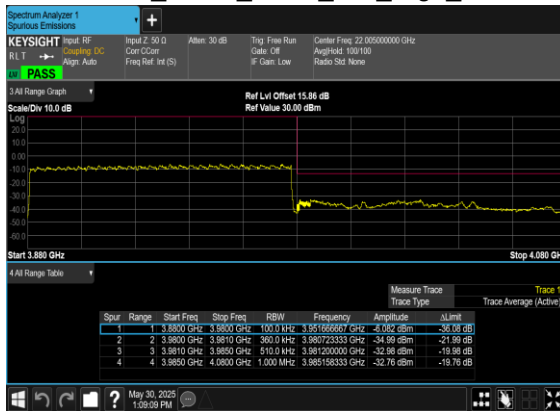
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



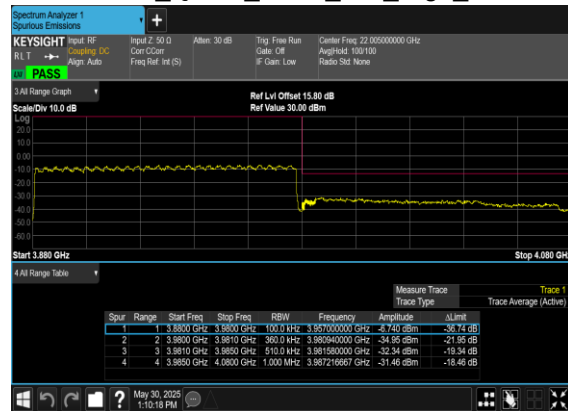
N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(100M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N77(100M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 N78(Ant 7)**Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=-1.2dBi**

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	25@12	25.77	24.57	0.2864
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.79	24.59	0.2877
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@49	25.78	24.58	0.2871
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	25@12	24.81	23.61	0.2296
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	24.78	23.58	0.2280
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@49	24.75	23.55	0.2265
78	30	20	650000	3750	DFT-s-OFDM QPSK	25@12	25.81	24.61	0.2891
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@1	25.7	24.5	0.2818
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@49	25.83	24.63	0.2904
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	25@12	24.83	23.63	0.2307
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.72	23.52	0.2249
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@49	24.77	23.57	0.2275
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	25@12	25.88	24.68	0.2938
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	25.94	24.74	0.2979
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@49	25.91	24.71	0.2958
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	25@12	24.94	23.74	0.2366
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	24.93	23.73	0.2360
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@49	24.79	23.59	0.2286
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	36@18	25.74	24.54	0.2844
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	25.83	24.63	0.2904
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@76	25.65	24.45	0.2786
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	36@18	24.76	23.56	0.2270
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	24.83	23.63	0.2307
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@76	24.67	23.47	0.2223
78	30	30	650000	3750	DFT-s-OFDM QPSK	36@18	25.7	24.5	0.2818
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@1	25.65	24.45	0.2786
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@76	25.76	24.56	0.2858
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	36@18	24.76	23.56	0.2270
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.64	23.44	0.2208
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@76	24.87	23.67	0.2328
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	36@18	25.83	24.63	0.2904



78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@1	25.8	24.6	0.2884
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@76	25.76	24.56	0.2858
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	36@18	24.85	23.65	0.2317
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@1	24.89	23.69	0.2339
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@76	24.88	23.68	0.2333
78	30	40	648000	3720	DFT-s-OFDM QPSK	50@25	25.71	24.51	0.2825
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	25.72	24.52	0.2831
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@104	25.7	24.5	0.2818
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	50@25	24.7	23.5	0.2239
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	24.79	23.59	0.2286
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@104	24.71	23.51	0.2244
78	30	40	650000	3750	DFT-s-OFDM QPSK	50@25	25.75	24.55	0.2851
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@1	25.7	24.5	0.2818
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@104	25.82	24.62	0.2897
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	50@25	24.75	23.55	0.2265
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.76	23.56	0.2270
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@104	24.9	23.7	0.2344
78	30	40	652000	3780	DFT-s-OFDM QPSK	50@25	25.9	24.7	0.2951
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@1	25.88	24.68	0.2938
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@104	25.87	24.67	0.2931
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	50@25	24.91	23.71	0.2350
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	24.9	23.7	0.2344
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@104	24.81	23.61	0.2296
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	64@32	25.75	24.55	0.2851
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	25.82	24.62	0.2897
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@131	25.71	24.51	0.2825
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	64@32	24.73	23.53	0.2254
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	24.82	23.62	0.2301
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@131	24.73	23.53	0.2254
78	30	50	650000	3750	DFT-s-OFDM QPSK	64@32	25.77	24.57	0.2864
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@1	25.68	24.48	0.2805
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@131	25.79	24.59	0.2877
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	64@32	24.78	23.58	0.2280
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.7	23.5	0.2239
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@131	24.73	23.53	0.2254
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	64@32	25.84	24.64	0.2911
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	25.68	24.48	0.2805
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@131	25.71	24.51	0.2825



78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	64@32	24.83	23.63	0.2307
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	24.67	23.47	0.2223
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@131	24.83	23.63	0.2307
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	81@40	25.68	24.48	0.2805
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	25.88	24.68	0.2938
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@160	25.86	24.66	0.2924
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	81@40	24.72	23.52	0.2249
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	24.86	23.66	0.2323
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@160	24.89	23.69	0.2339
78	30	60	650000	3750	DFT-s-OFDM QPSK	81@40	25.76	24.56	0.2858
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@1	25.73	24.53	0.2838
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@160	25.9	24.7	0.2951
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	81@40	24.81	23.61	0.2296
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.77	23.57	0.2275
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@160	24.97	23.77	0.2382
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	81@40	25.82	24.62	0.2897
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@1	25.78	24.58	0.2871
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@160	25.85	24.65	0.2917
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	81@40	24.84	23.64	0.2312
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@1	24.75	23.55	0.2265
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@160	24.79	23.59	0.2286
78	30	70	649000	3735	DFT-s-OFDM QPSK	90@45	25.75	24.55	0.2851
78	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	25.93	24.73	0.2972
78	30	70	649000	3735	DFT-s-OFDM QPSK	1@187	25.82	24.62	0.2897
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	90@45	24.75	23.55	0.2265
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	24.88	23.68	0.2333
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@187	24.9	23.7	0.2344
78	30	70	650000	3750	DFT-s-OFDM QPSK	90@45	25.73	24.53	0.2838
78	30	70	650000	3750	DFT-s-OFDM QPSK	1@1	25.88	24.68	0.2938
78	30	70	650000	3750	DFT-s-OFDM QPSK	1@187	25.76	24.56	0.2858
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	90@45	24.75	23.55	0.2265
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.86	23.66	0.2323
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	1@187	24.81	23.61	0.2296
78	30	70	651000	3765	DFT-s-OFDM QPSK	90@45	25.85	24.65	0.2917
78	30	70	651000	3765	DFT-s-OFDM QPSK	1@1	25.8	24.6	0.2884
78	30	70	651000	3765	DFT-s-OFDM QPSK	1@187	25.82	24.62	0.2897
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	90@45	24.86	23.66	0.2323
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	1@1	24.76	23.56	0.2270



78	30	70	651000	3765	DFT-s-OFDM 16 QAM	1@187	24.88	23.68	0.2333
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	108@54	25.76	24.56	0.2858
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	25.96	24.76	0.2992
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@215	25.8	24.6	0.2884
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	108@54	24.76	23.56	0.2270
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	24.88	23.68	0.2333
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@215	24.89	23.69	0.2339
78	30	80	650000	3750	DFT-s-OFDM QPSK	108@54	25.75	24.55	0.2851
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@1	25.95	24.75	0.2985
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@215	25.76	24.56	0.2858
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	108@54	24.78	23.58	0.2280
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.92	23.72	0.2355
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@215	24.89	23.69	0.2339
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	108@54	25.81	24.61	0.2891
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@1	25.82	24.62	0.2897
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@215	25.82	24.62	0.2897
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	108@54	24.84	23.64	0.2312
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@1	24.89	23.69	0.2339
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@215	24.94	23.74	0.2366
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	120@60	25.79	24.59	0.2877
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	26.07	24.87	0.3069
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@243	25.86	24.66	0.2924
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	120@60	24.82	23.62	0.2301
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	25.03	23.83	0.2415
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@243	24.85	23.65	0.2317
78	30	90	650000	3750	DFT-s-OFDM QPSK	120@60	25.75	24.55	0.2851
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@1	25.98	24.78	0.3006
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@243	25.85	24.65	0.2917
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	120@60	24.72	23.52	0.2249
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.98	23.78	0.2388
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@243	24.87	23.67	0.2328
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	120@60	25.71	24.51	0.2825
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@1	25.91	24.71	0.2958
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@243	25.76	24.56	0.2858
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	120@60	24.74	23.54	0.2259
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@1	24.89	23.69	0.2339
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@243	24.9	23.7	0.2344
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	26.01	24.81	0.3027



78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.15	24.95	0.3126
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	25.99	24.79	0.3013
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	25.97	24.77	0.2999
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	26.12	24.92	0.3105
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	26.11	24.91	0.3097
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	25.03	23.83	0.2415
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.17	23.97	0.2495
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	25.05	23.85	0.2427
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	23.55	22.35	0.1718
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.84	22.64	0.1837
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	23.6	22.4	0.1738
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	21.63	20.43	0.1104
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.49	20.29	0.1069
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	21.47	20.27	0.1064
78	30	100	650000	3750	CP-OFDM QPSK	137@68	24.52	23.32	0.2148
78	30	100	650000	3750	CP-OFDM QPSK	1@1	24.59	23.39	0.2183
78	30	100	650000	3750	CP-OFDM QPSK	1@271	24.6	23.4	0.2188

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	50@0	15.8	PASS	NV
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	50@0	18.2	PASS	LV
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	50@0	17.4	PASS	HV
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	50@0	18.3	PASS	-30℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	50@0	17.3	PASS	-20℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	50@0	16.9	PASS	-10℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	50@0	13.9	PASS	0℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	50@0	11.3	PASS	10℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	50@0	15.8	PASS	20℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	50@0	10.6	PASS	30℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	50@0	18.3	PASS	40℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	50@0	18.6	PASS	50℃

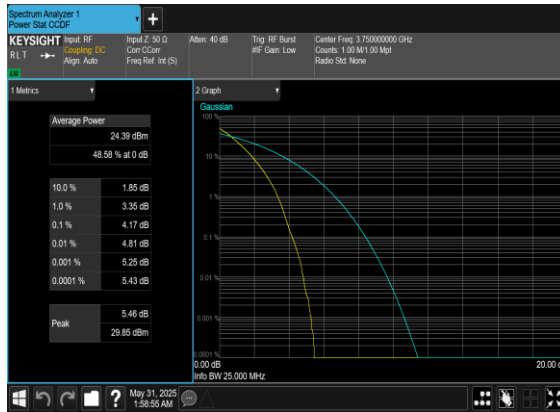
$|\text{MAX}(\Delta f)| = 18.6 \text{ Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	3700.857562	$\geq 3700 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	3798.74518	$\leq 3800 \text{ MHz}$	

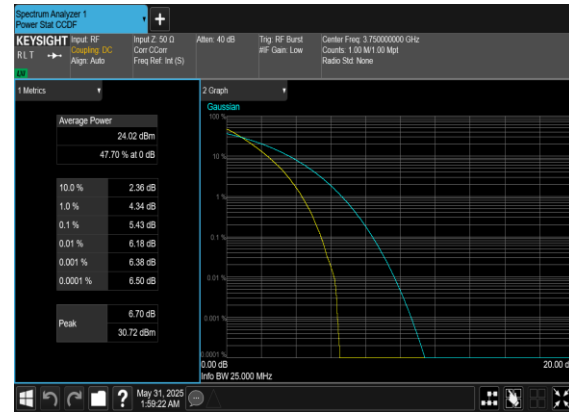
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	30	20	650000	3750.0	DFT-s-OFDM PI/2 BPSK	50@0	4.17	13	PASS
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	50@0	5.43	13	PASS

N78(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH





Occupied Bandwidth

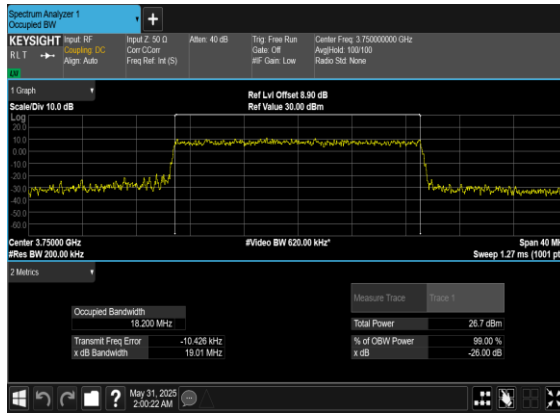
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
78	30	20	650000	3750.0	CP-OFDM QPSK	51@0	18.2	19.01
78	30	20	650000	3750.0	CP-OFDM 16 QAM	51@0	18.22	19.03
78	30	20	650000	3750.0	CP-OFDM 64 QAM	51@0	18.211	19.0
78	30	20	650000	3750.0	CP-OFDM 256 QAM	51@0	18.196	18.87
78	30	30	650000	3750.0	CP-OFDM QPSK	78@0	27.858	28.76
78	30	30	650000	3750.0	CP-OFDM 16 QAM	78@0	27.91	28.95
78	30	30	650000	3750.0	CP-OFDM 64 QAM	78@0	27.76	28.97
78	30	30	650000	3750.0	CP-OFDM 256 QAM	78@0	27.793	28.96
78	30	40	650000	3750.0	CP-OFDM QPSK	106@0	37.844	39.24
78	30	40	650000	3750.0	CP-OFDM 16 QAM	106@0	37.842	39.12
78	30	40	650000	3750.0	CP-OFDM 64 QAM	106@0	37.725	39.18
78	30	40	650000	3750.0	CP-OFDM 256 QAM	106@0	37.792	39.37
78	30	50	650000	3750.0	CP-OFDM QPSK	133@0	47.289	48.99
78	30	50	650000	3750.0	CP-OFDM 16 QAM	133@0	47.276	49.0
78	30	50	650000	3750.0	CP-OFDM 64 QAM	133@0	47.399	49.0
78	30	50	650000	3750.0	CP-OFDM 256 QAM	133@0	47.391	48.93
78	30	60	650000	3750.0	CP-OFDM QPSK	162@0	57.801	59.72
78	30	60	650000	3750.0	CP-OFDM 16 QAM	162@0	57.718	59.68
78	30	60	650000	3750.0	CP-OFDM 64 QAM	162@0	57.693	59.62
78	30	60	650000	3750.0	CP-OFDM 256 QAM	162@0	57.75	59.65
78	30	70	650000	3750.0	CP-OFDM QPSK	189@0	67.68	69.61
78	30	70	650000	3750.0	CP-OFDM 16 QAM	189@0	67.367	69.62



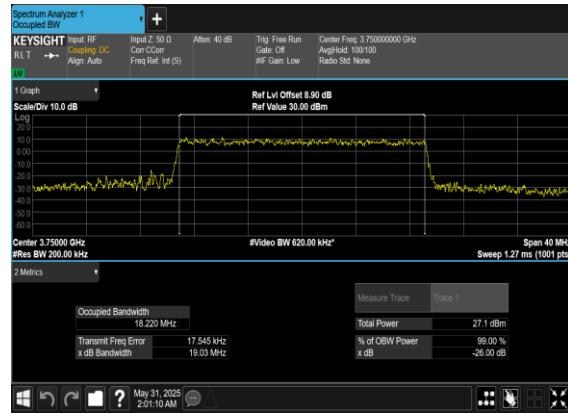
78	30	70	650000	3750.0	CP-OFDM 64 QAM	189@0	67.47	69.63
78	30	70	650000	3750.0	CP-OFDM 256 QAM	189@0	67.301	69.64
78	30	80	650000	3750.0	CP-OFDM QPSK	217@0	77.362	79.95
78	30	80	650000	3750.0	CP-OFDM 16 QAM	217@0	77.521	79.87
78	30	80	650000	3750.0	CP-OFDM 64 QAM	217@0	77.464	79.84
78	30	80	650000	3750.0	CP-OFDM 256 QAM	217@0	77.504	80.0
78	30	90	650000	3750.0	CP-OFDM QPSK	245@0	87.582	90.16
78	30	90	650000	3750.0	CP-OFDM 16 QAM	245@0	87.329	90.25
78	30	90	650000	3750.0	CP-OFDM 64 QAM	245@0	87.692	90.11
78	30	90	650000	3750.0	CP-OFDM 256 QAM	245@0	87.318	90.21
78	30	100	650000	3750.0	CP-OFDM QPSK	273@0	97.265	100.5
78	30	100	650000	3750.0	CP-OFDM 16 QAM	273@0	97.145	100.4
78	30	100	650000	3750.0	CP-OFDM 64 QAM	273@0	97.277	100.5
78	30	100	650000	3750.0	CP-OFDM 256 QAM	273@0	97.645	100.5



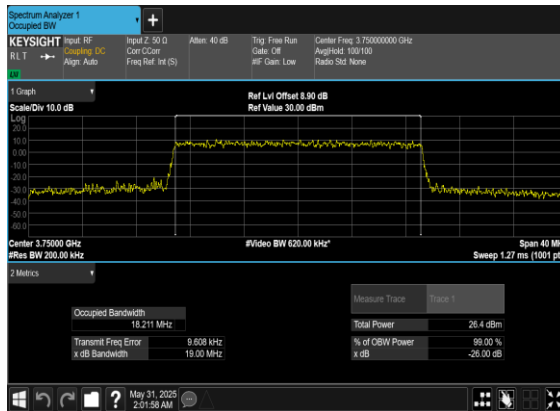
N78(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



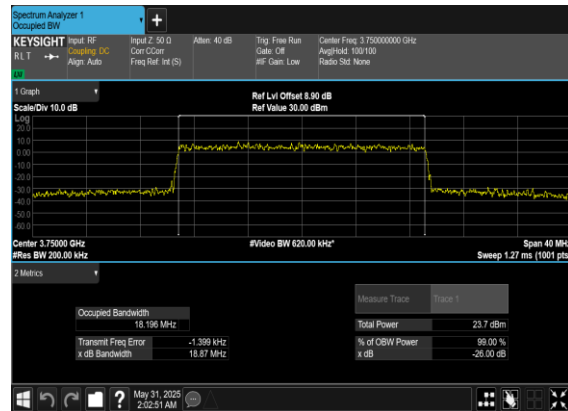
N78(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

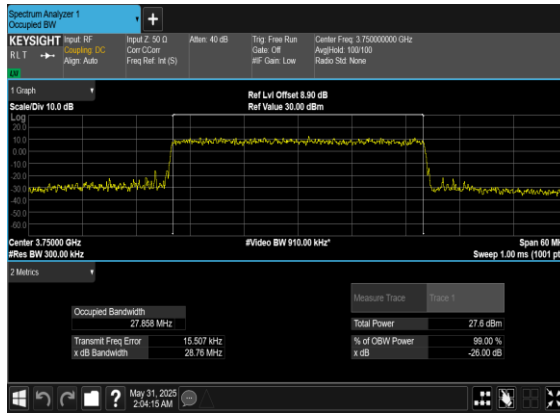


N78(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

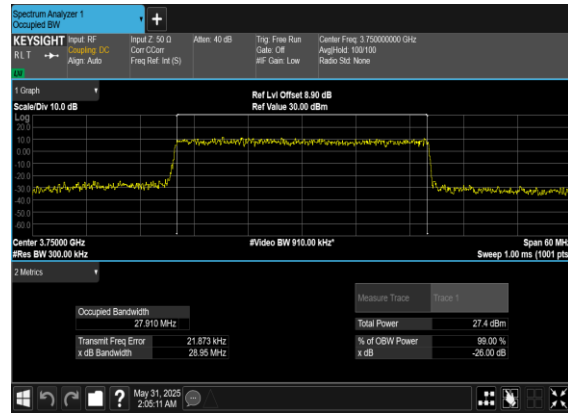




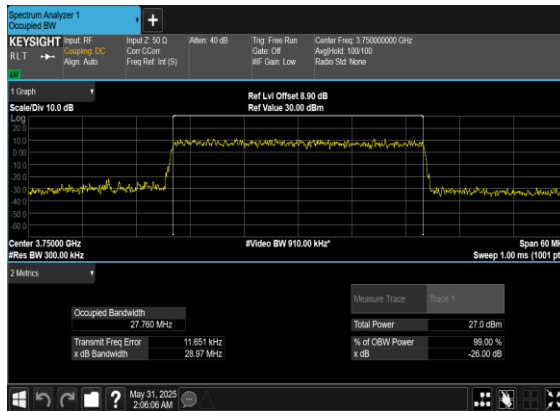
N78(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



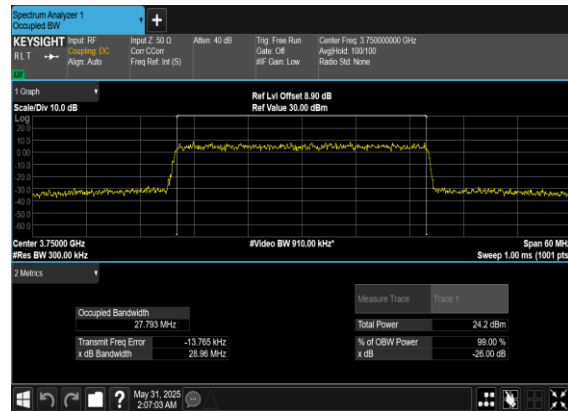
N78(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

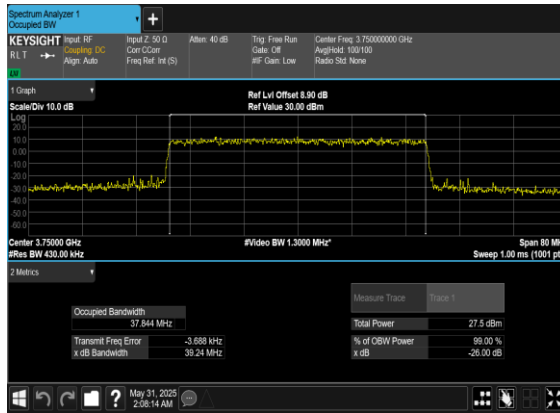


N78(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

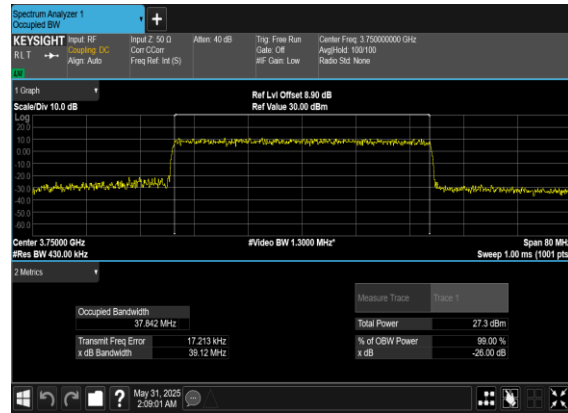




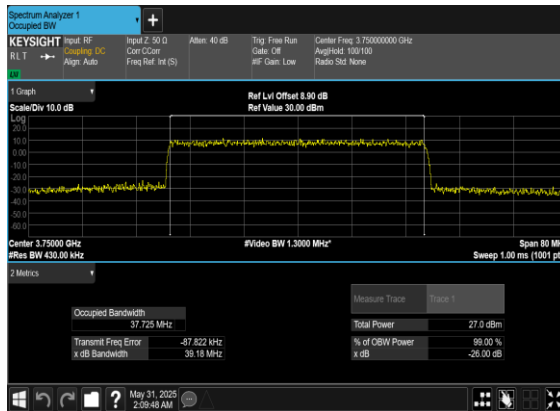
N78(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



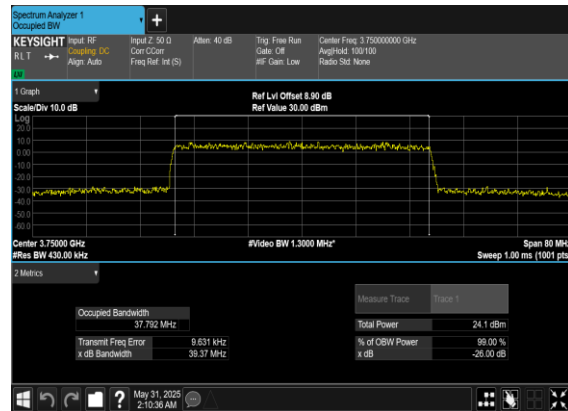
N78(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

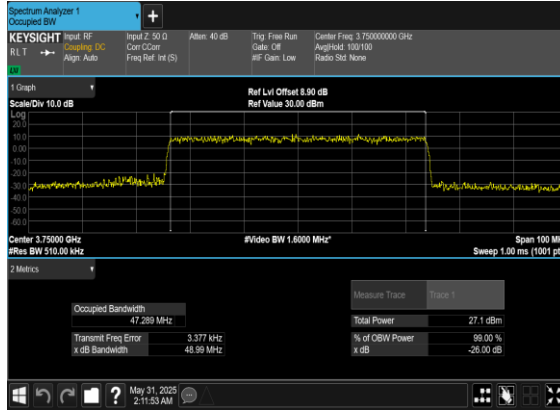


N78(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

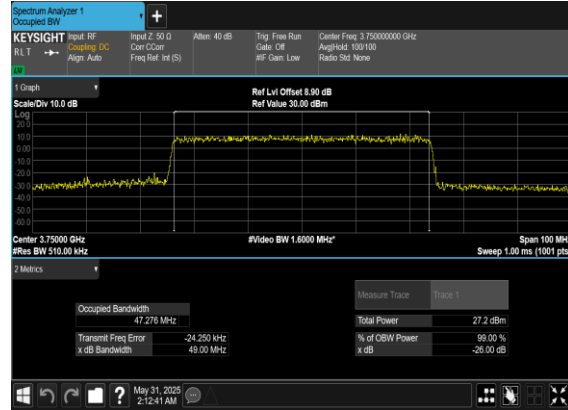




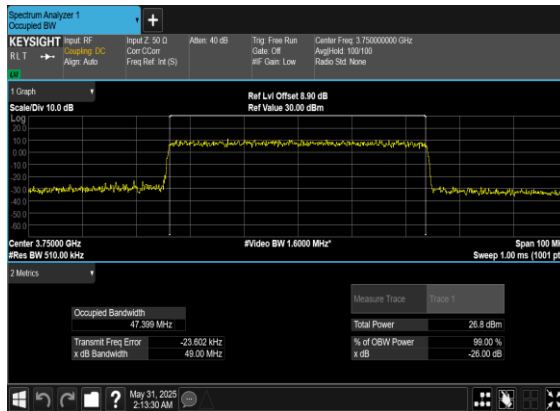
N78(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



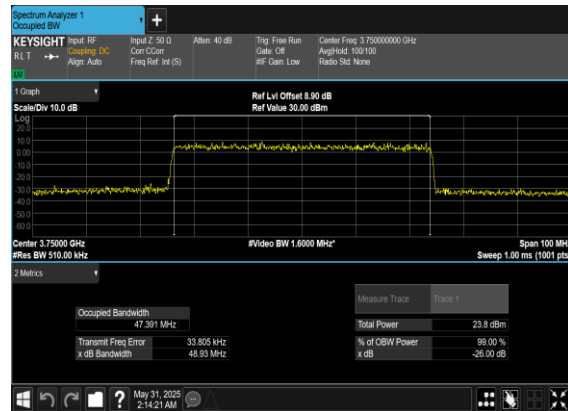
N78(50M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

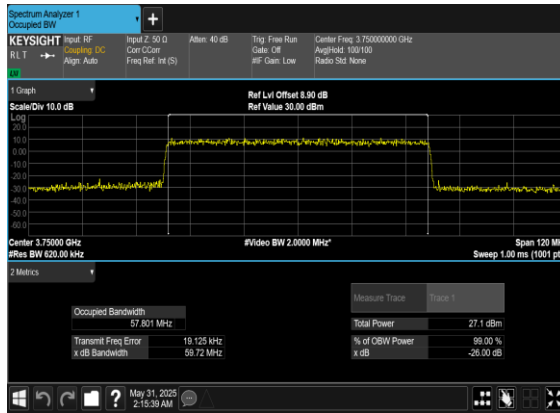


N78(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

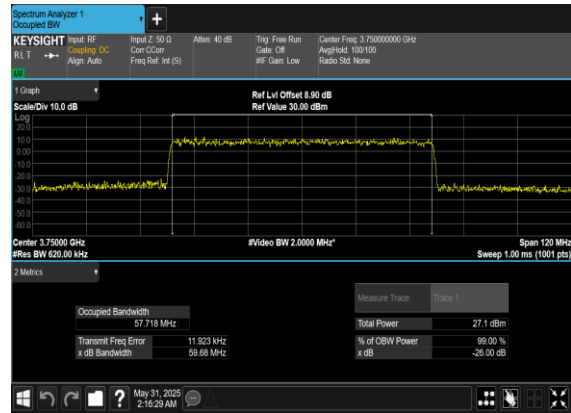




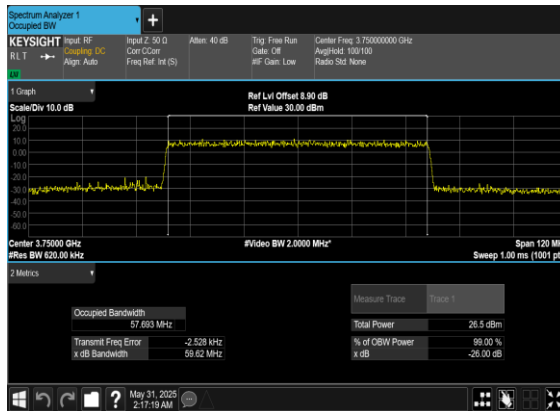
N78(60M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



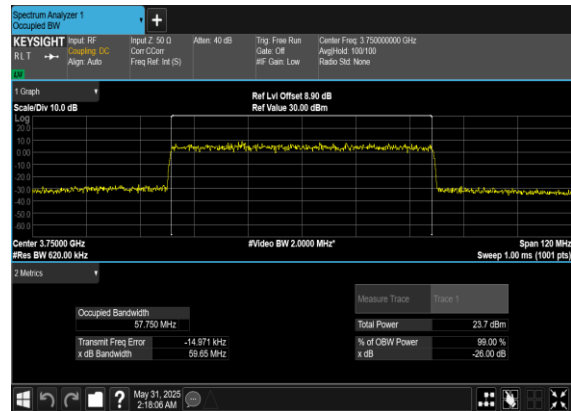
N78(60M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(60M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

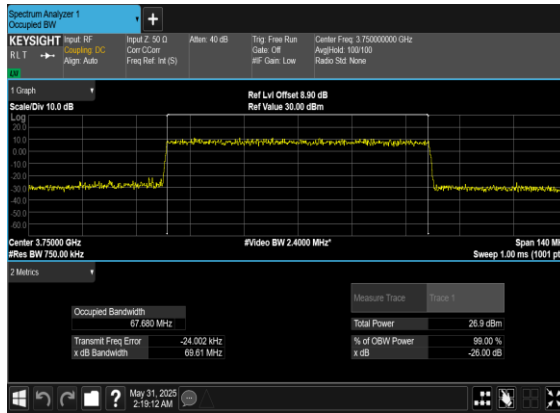


N78(60M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

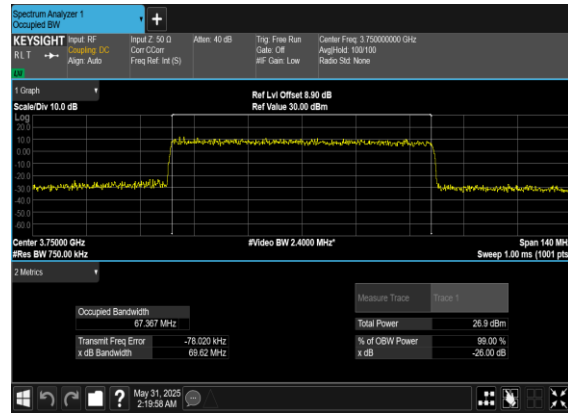




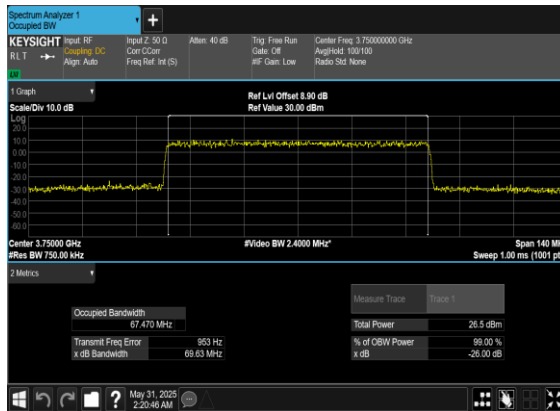
N78(70M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



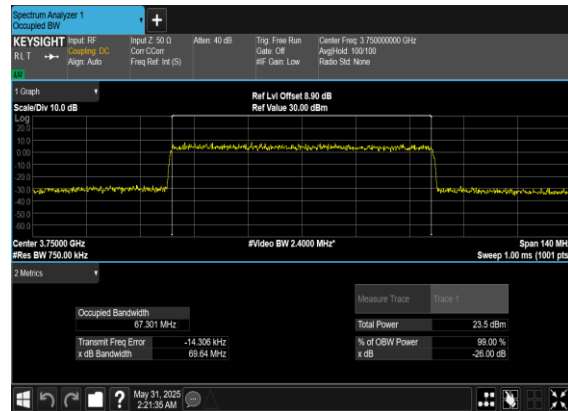
N78(70M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(70M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

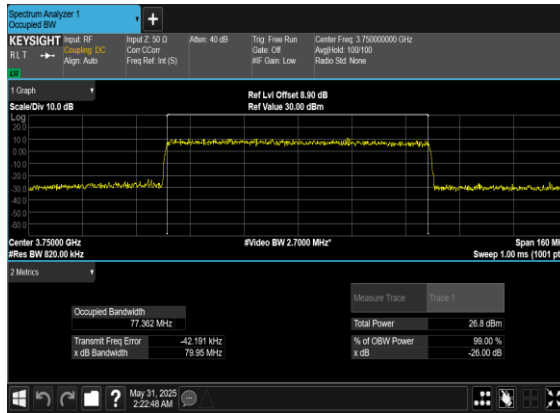


N78(70M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

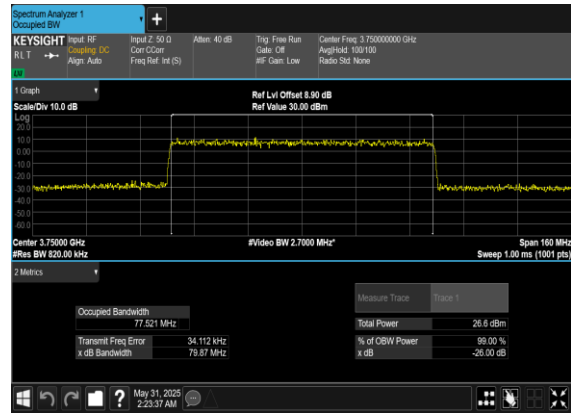




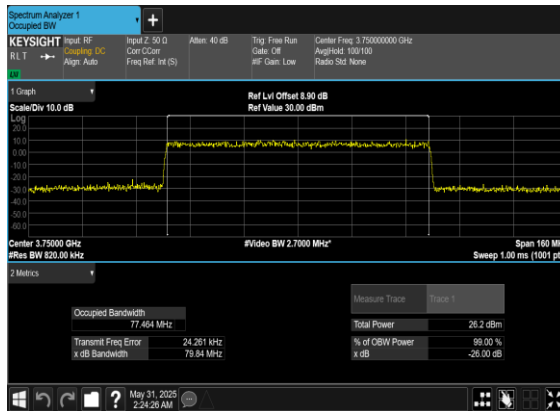
N78(80M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



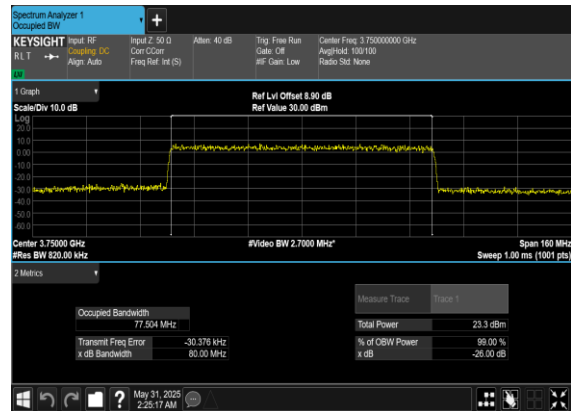
N78(80M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

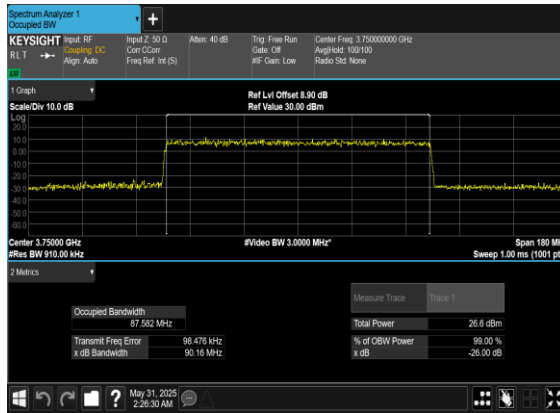


N78(80M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

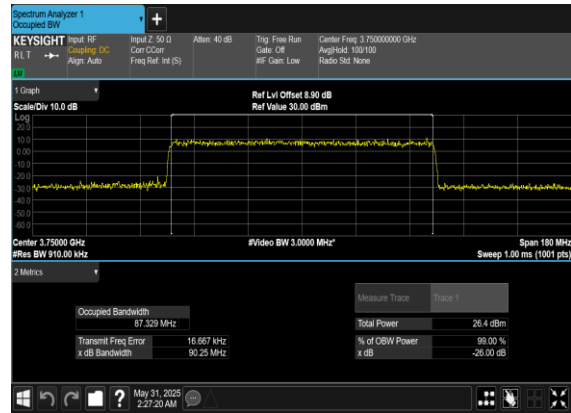




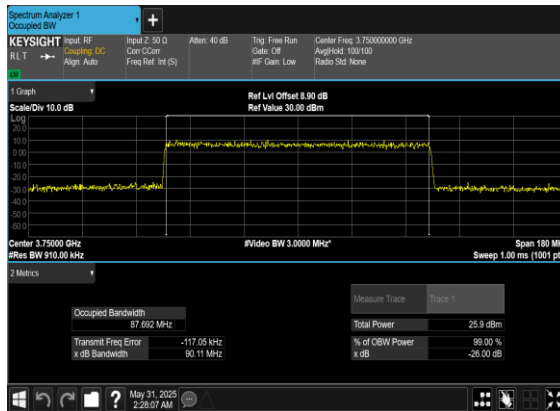
N78(90M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



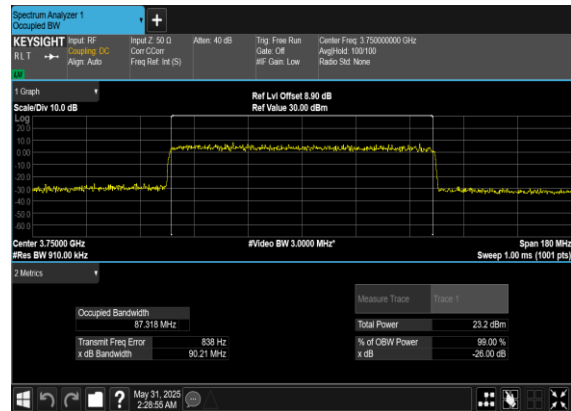
N78(90M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

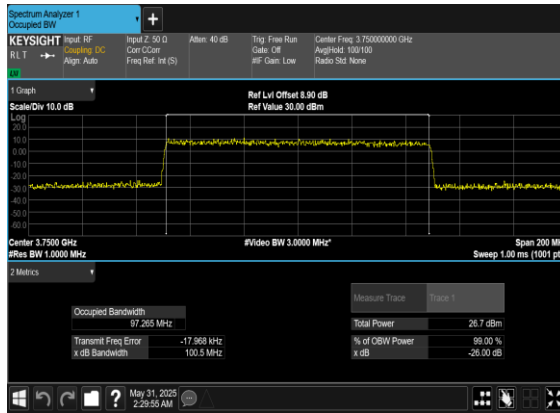


N78(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

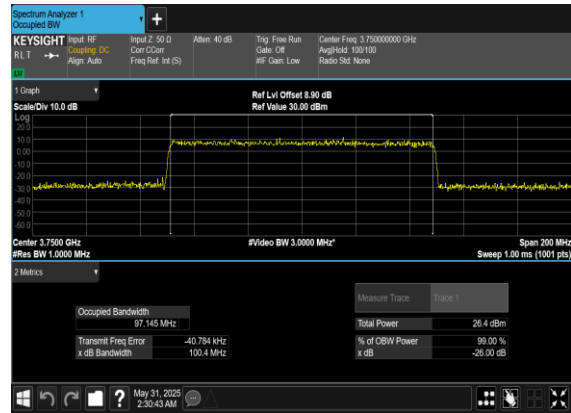




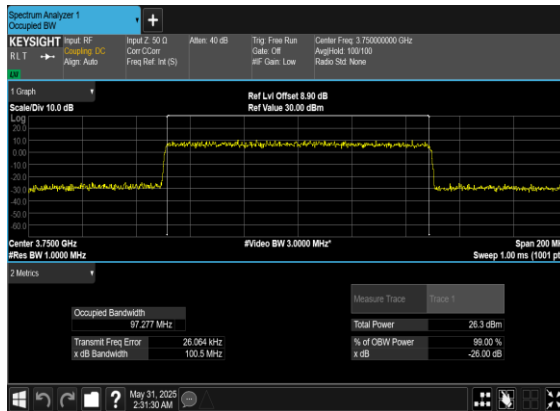
N78(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



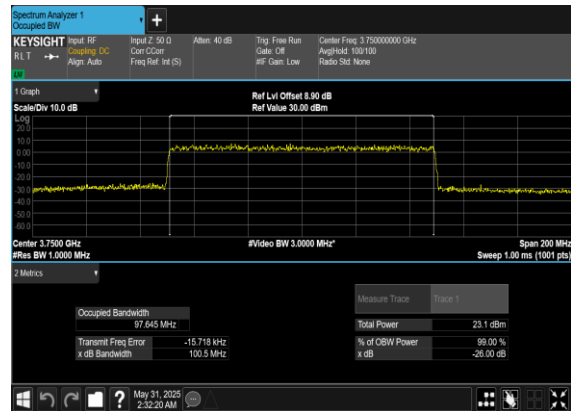
N78(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH





Conducted Spurious Emissions

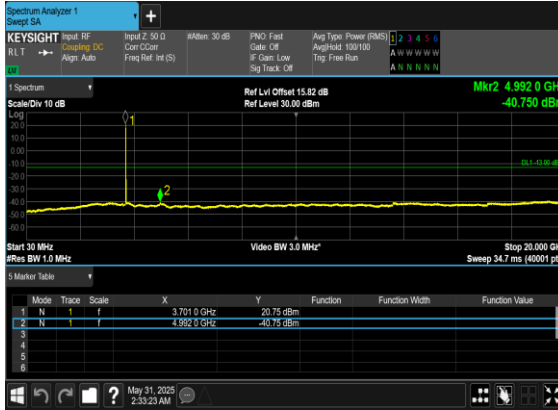
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	20	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	652666	3789.99	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	20	652666	3789.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	652666	3789.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	---



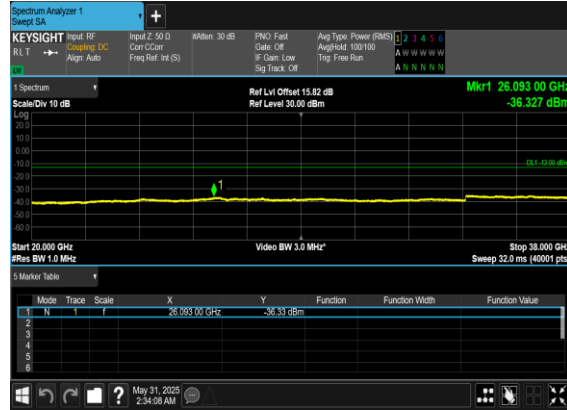
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	60	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	60	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	60	651332	3769.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS



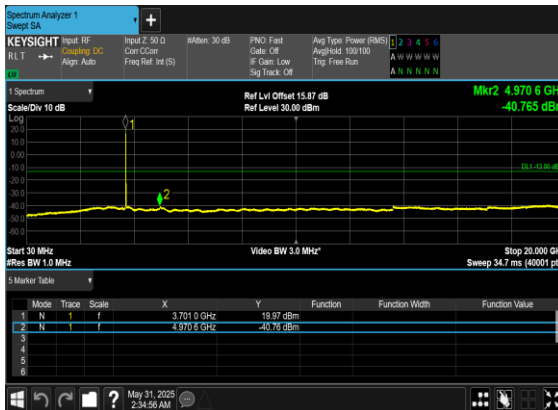
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



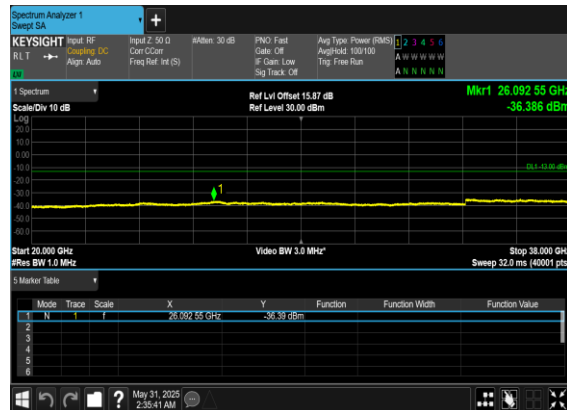
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

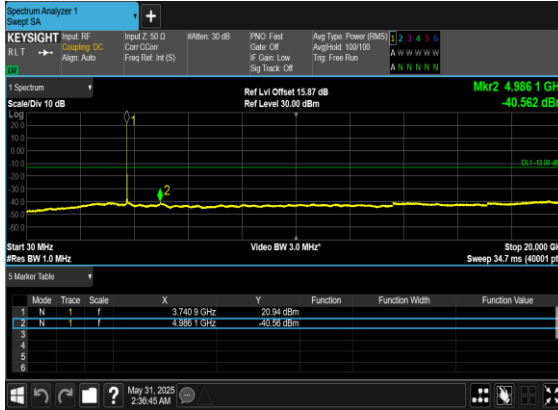


N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

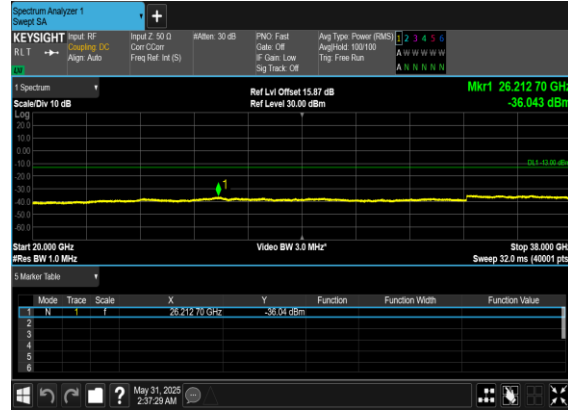




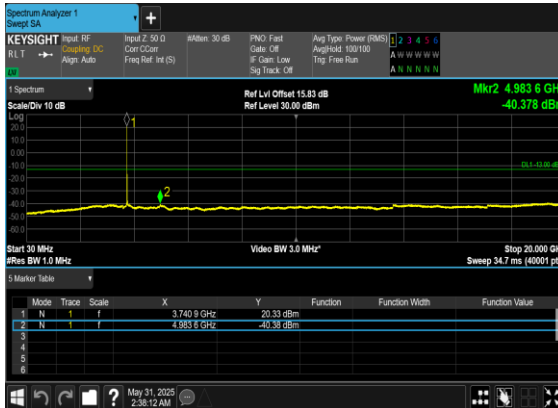
N78(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



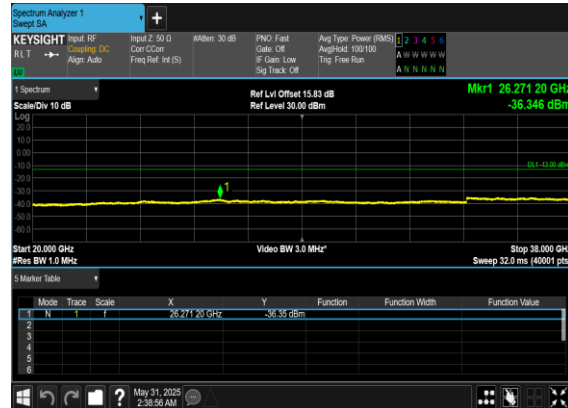
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OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

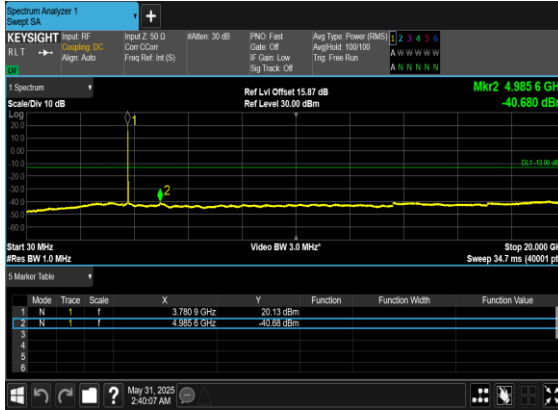


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OFDM_QPSK_Edge_1RB_Left_Mid_CH

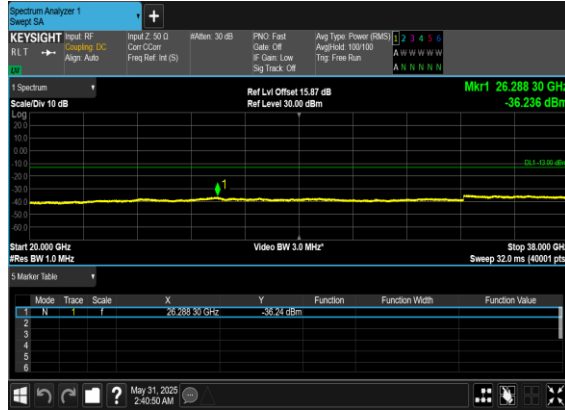




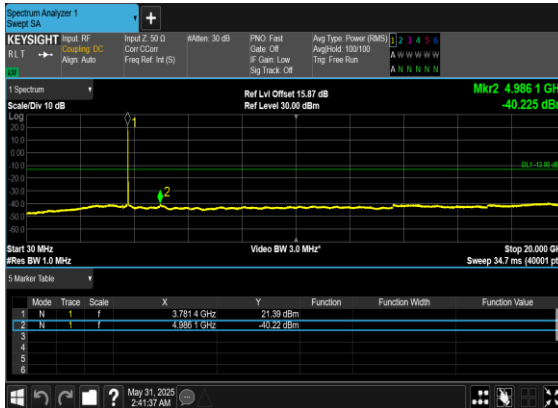
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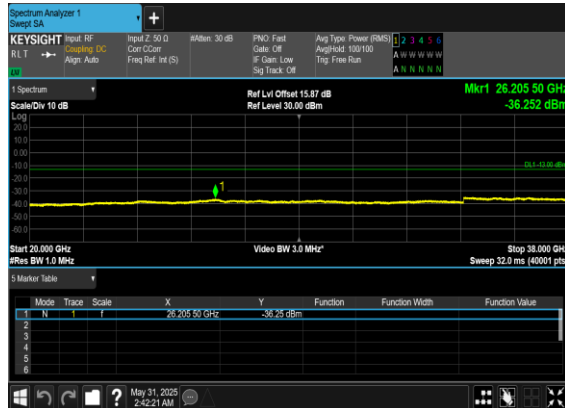
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N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

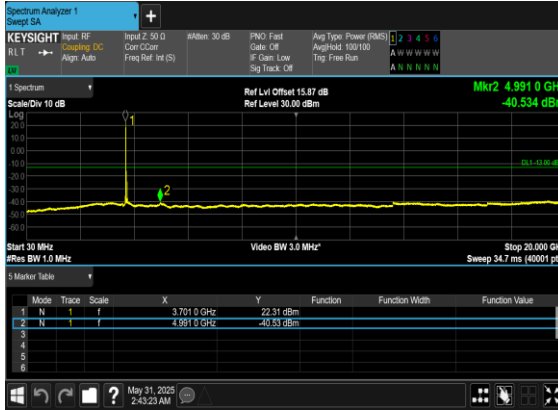


N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

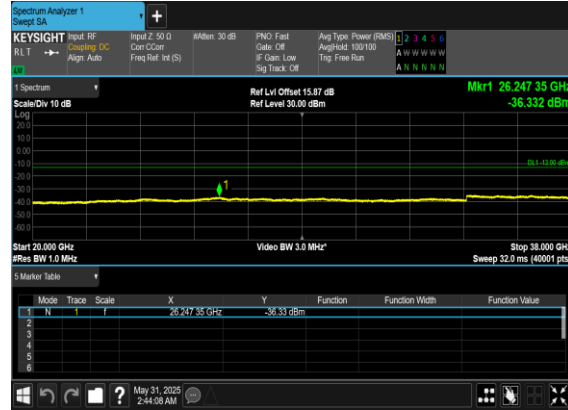




N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



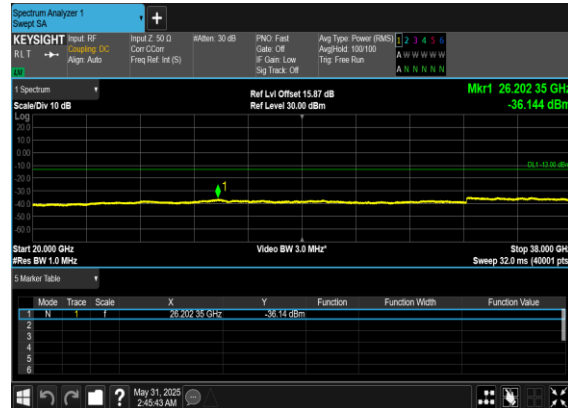
N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

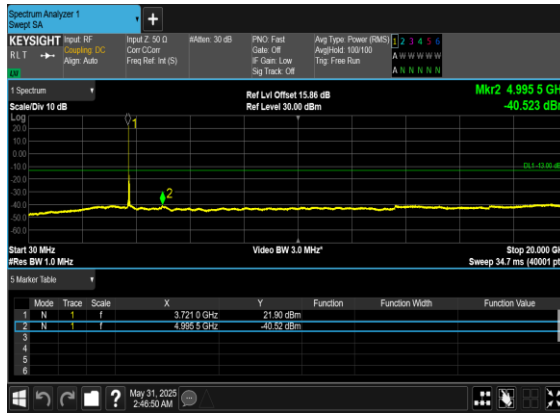


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OFDM_QPSK_Edge_1RB_Left_Low_CH

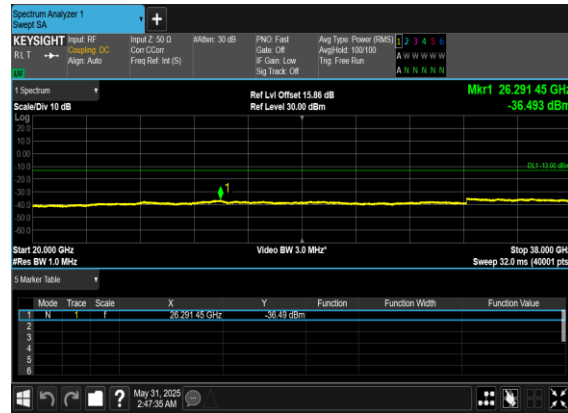




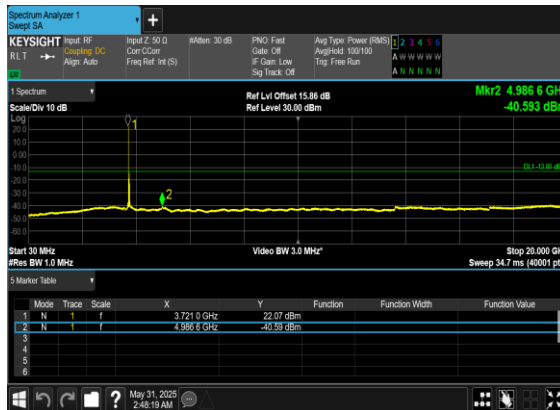
N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



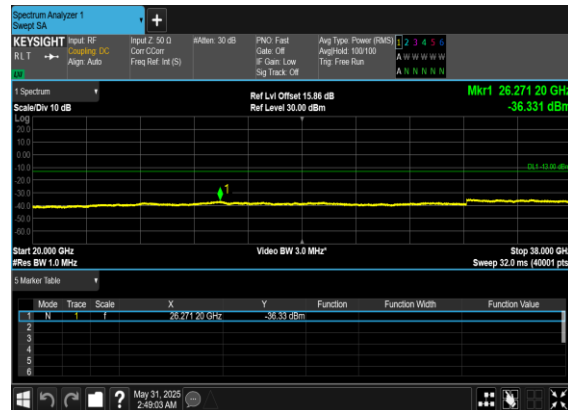
N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

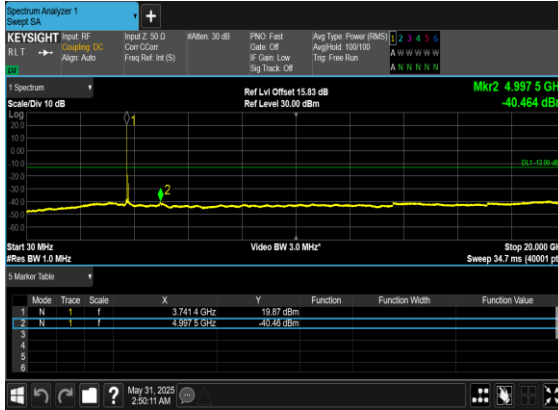


N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

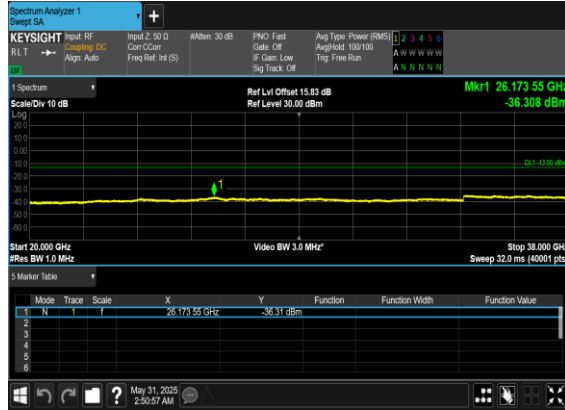




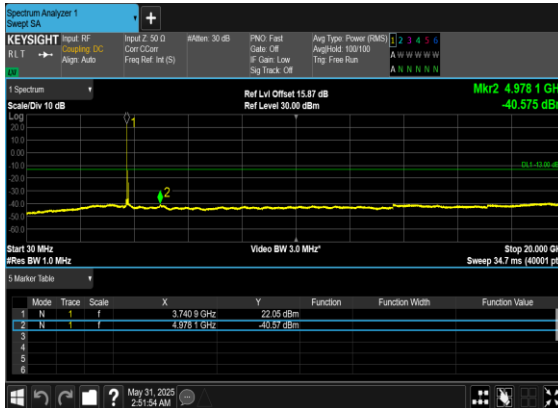
N78(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



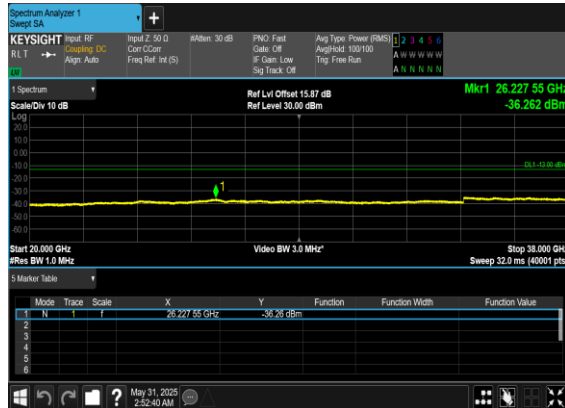
N78(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

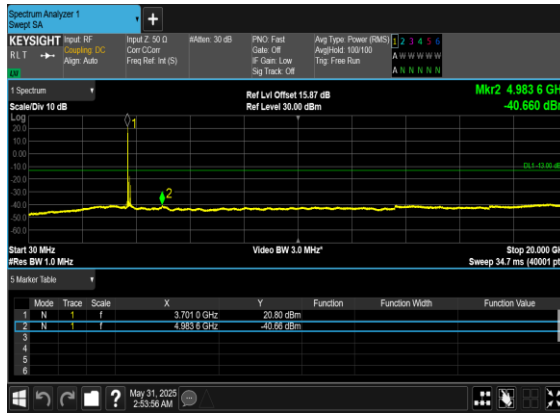


N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

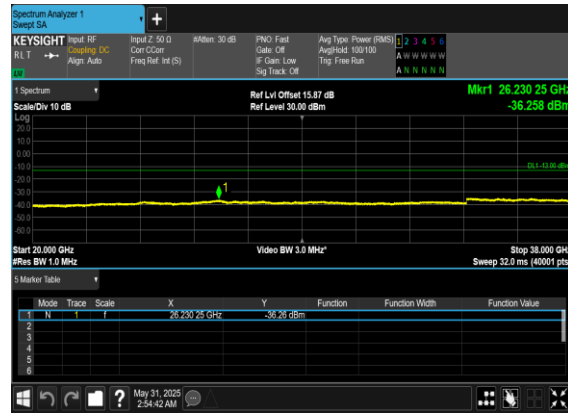




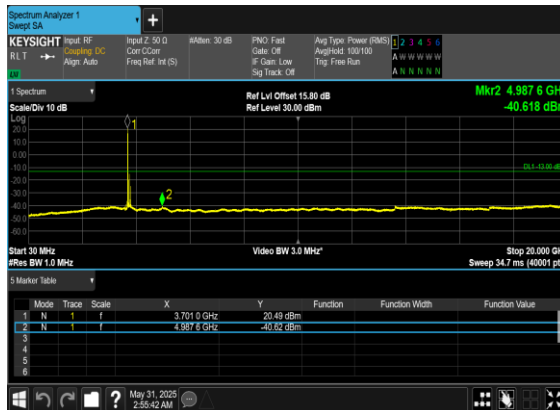
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



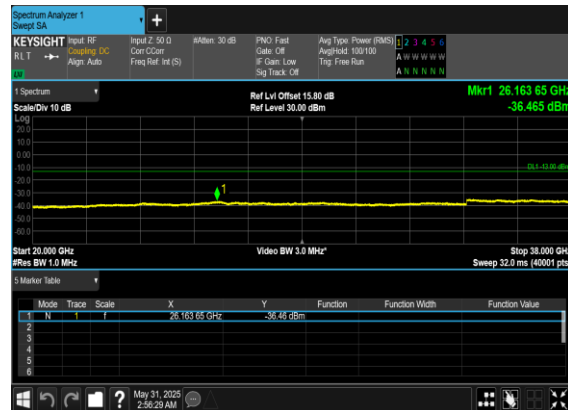
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

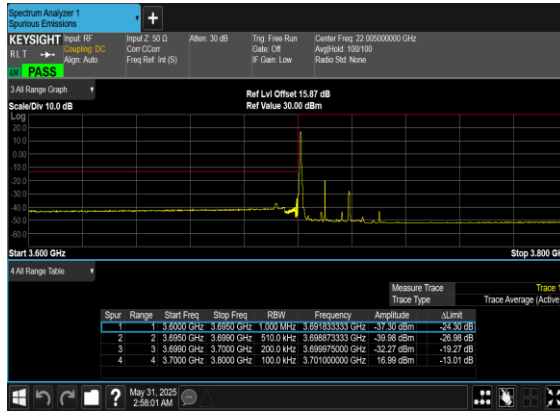


**Conducted Band Edge**

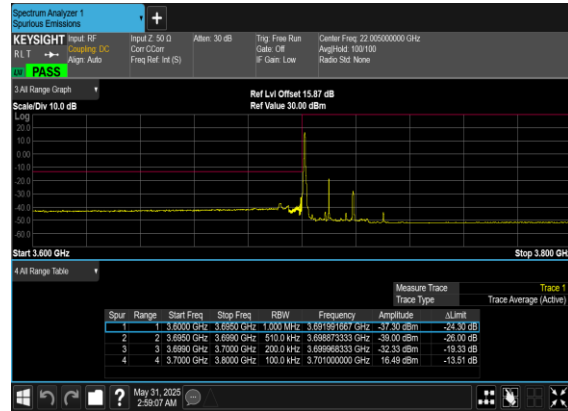
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	647334	3710.01	DFT-s-OFDM BPSK	50@0	see graph	PASS
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	50@0	see graph	PASS
78	30	20	652666	3789.99	DFT-s-OFDM BPSK	1@50	see graph	PASS
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@50	see graph	PASS
78	30	20	652666	3789.99	DFT-s-OFDM BPSK	50@0	see graph	PASS
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	50@0	see graph	PASS
78	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	648668	3730.02	DFT-s-OFDM BPSK	162@0	see graph	PASS
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	162@0	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM BPSK	1@161	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@161	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM BPSK	162@0	see graph	PASS
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	162@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@272	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@272	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	270@0	see graph	PASS



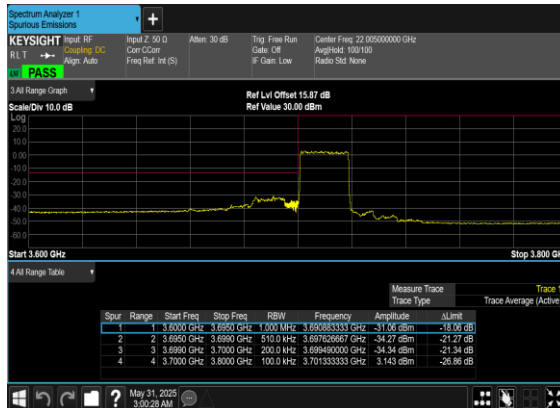
N78(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



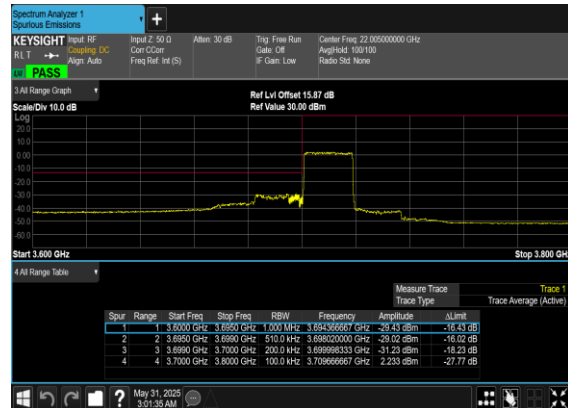
N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

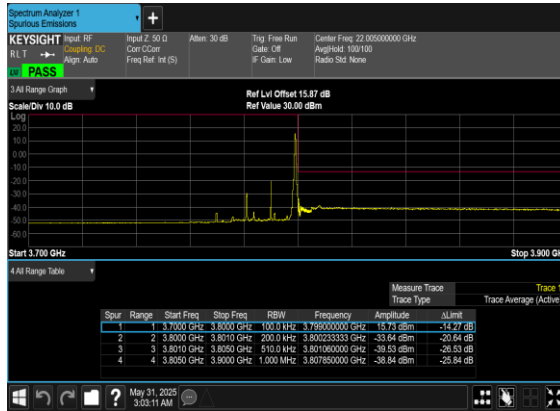


N78(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

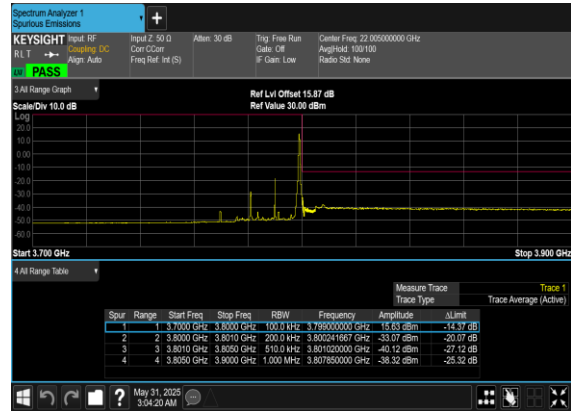




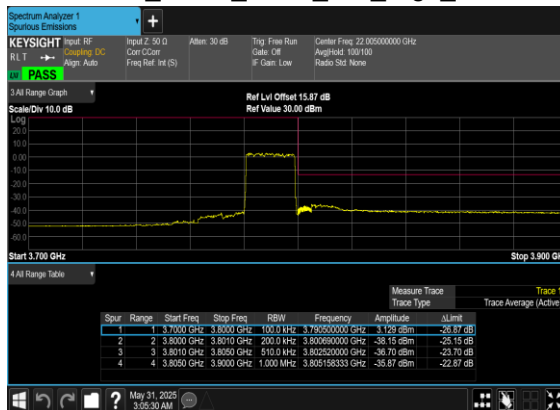
N78(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



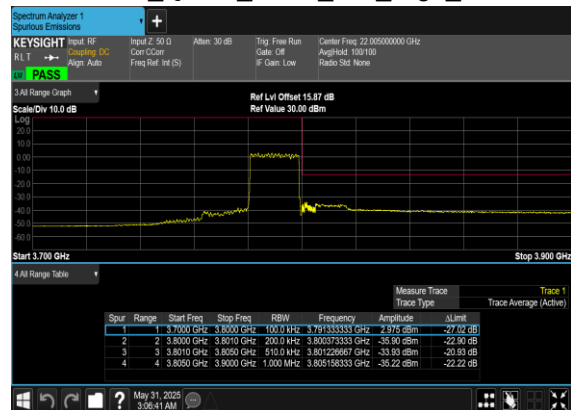
N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N78(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

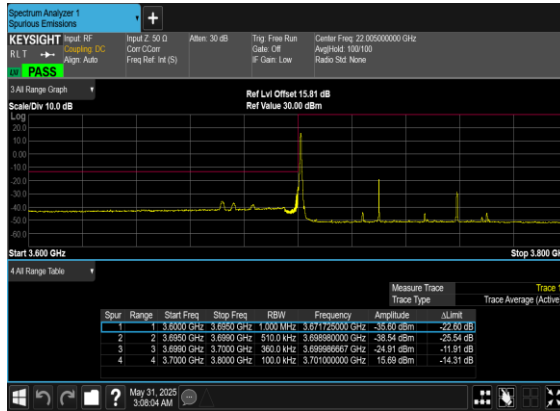


N78(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

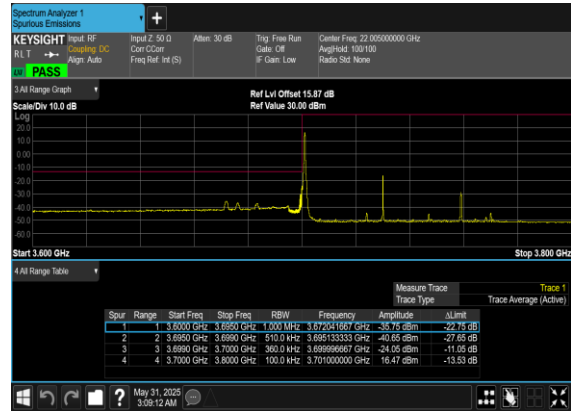




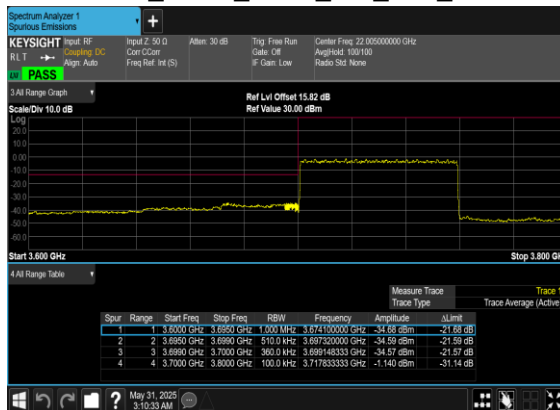
N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



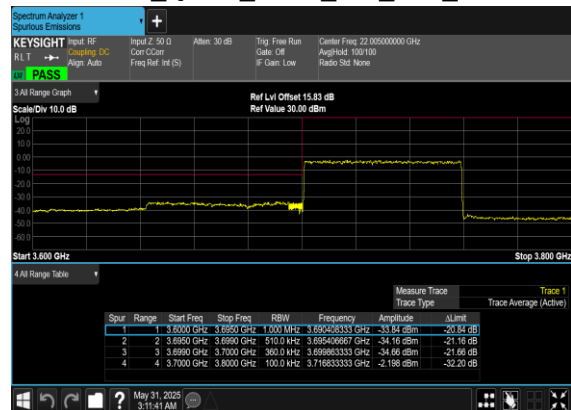
N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(60M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

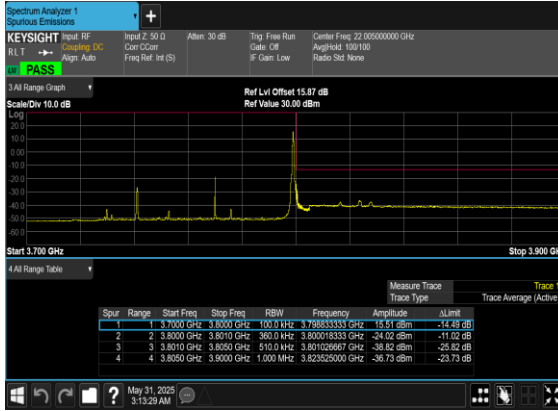


N78(60M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

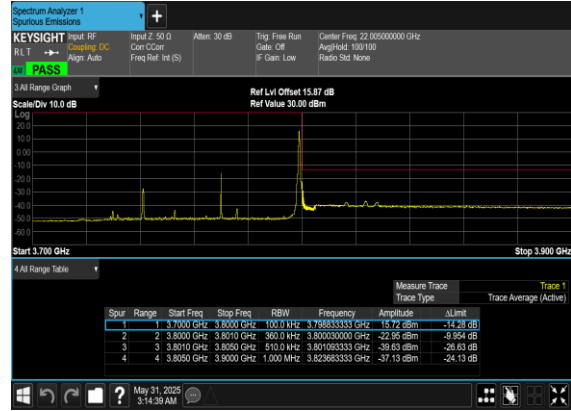




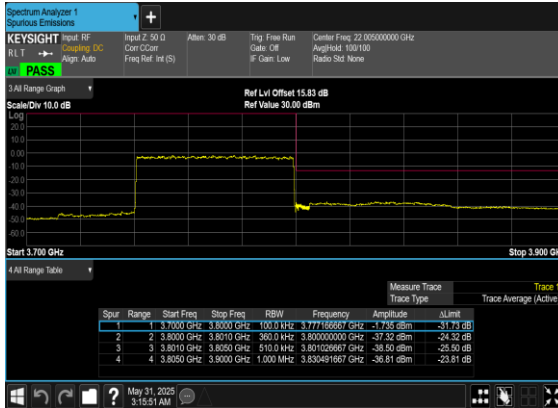
N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



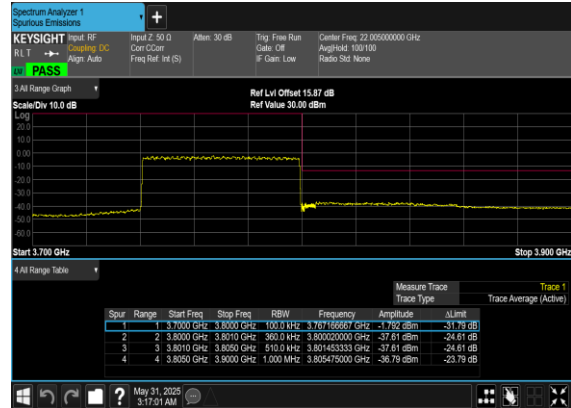
N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N78(60M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

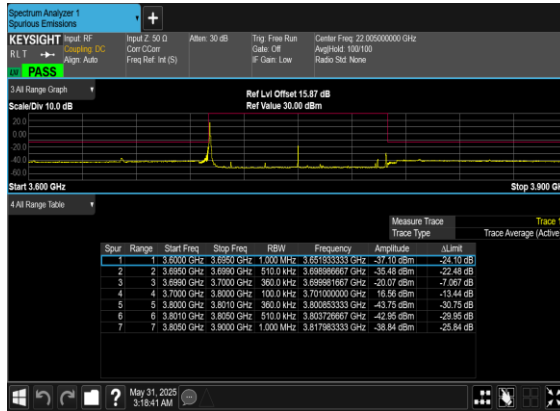


N78(60M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

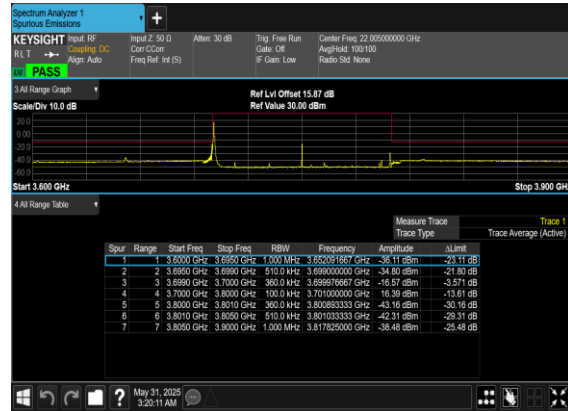




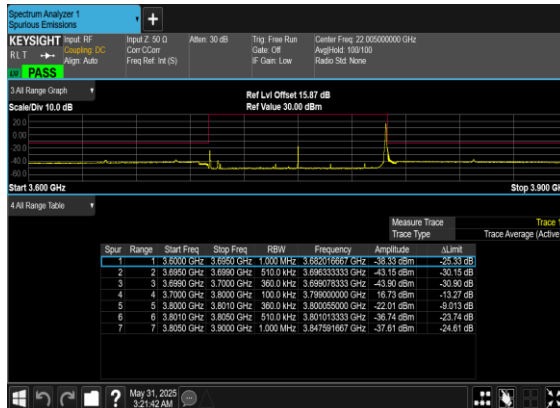
N78(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



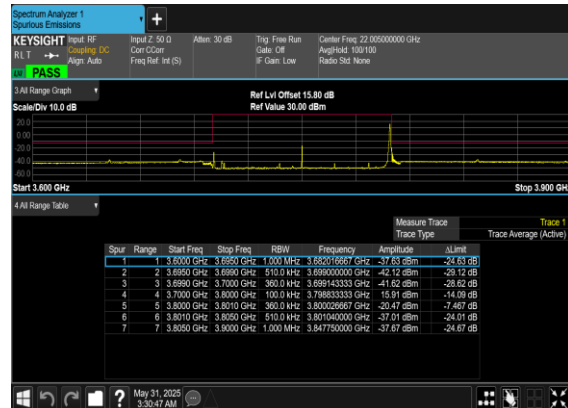
N78(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Mid_CH

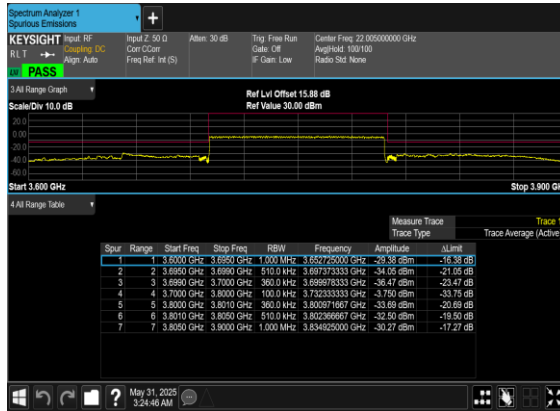


N78(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH

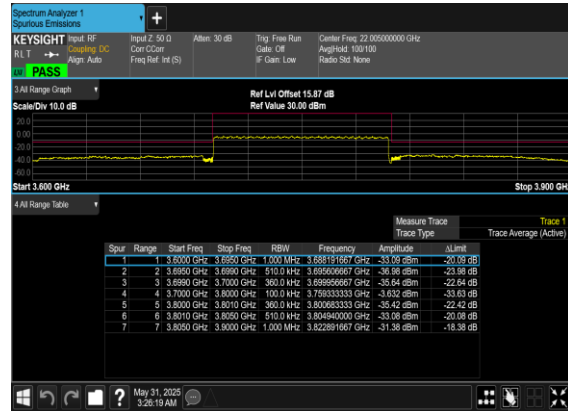




N78(100M)_DFT-s-
OFDM_BPSK_Outer_Full_Mid_CH



N78(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	LiangPing Zhou	Temperature :	22~25°C
		Relative Humidity :	48~52%

RSE pre-scanned harmonic for different antennas, choose the worst antenna perform final test and record in the report.

n77 SA / NR 100MHz / QPSK(ANT7)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7584.00	-56.89	-13	-43.89	-50.82	-60.19	8.30	11.60	H
	11376.00	-50.74	-13	-37.74	-52.85	-52.26	10.48	12.00	H
	15168.00	-43.31	-13	-30.31	-48.72	-45.01	11.80	13.50	H
	7584.00	-57.65	-13	-44.65	-51.54	-60.95	8.30	11.60	V
	11376.00	-52.37	-13	-39.37	-54.21	-53.89	10.48	12.00	V
	15168.00	-49.92	-13	-36.92	-54.68	-51.62	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_41A_n77A / LTE 10MHz + NR 100MHz / QPSK(4+7)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n77 Middle	7584.00	-56.17	-13	-43.17	-61.80	-59.47	8.30	11.60	H
	11376.00	-52.75	-13	-39.75	-66.86	-54.27	10.48	12.00	H
	15168.00	-48.21	-13	-35.21	-65.34	-49.91	11.80	13.50	H
	7584.00	-56.61	-13	-43.61	-62.2	-59.91	8.30	11.60	V
	11376.00	-53.12	-13	-40.12	-66.96	-54.64	10.48	12.00	V
	15168.00	-51.40	-13	-38.40	-67.88	-53.10	11.80	13.50	V
LTE Band41 Middle	5177.00	-59.97	-25	-34.97	-59.46	-65.53	7.14	12.70	H
	7765.50	-57.21	-25	-32.21	-63.19	-60.51	8.30	11.60	H
	10354.00	-54.72	-25	-29.72	-66.48	-56.24	10.48	12.00	H
	5177.00	-57.63	-25	-32.63	-57.41	-63.19	7.14	12.70	V
	7765.50	-56.11	-25	-31.11	-61.93	-59.41	8.30	11.60	V
	10354.00	-56.60	-25	-31.60	-67.49	-58.12	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



n78 SA / NR 100MHz / QPSK(ANT7)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7404.00	-54.94	-13	-41.94	-49.13	-58.24	8.30	11.60	H
	11106.00	-47.65	-13	-34.65	-48.73	-49.17	10.48	12.00	H
	14808.00	-44.61	-13	-31.61	-50.38	-46.31	11.80	13.50	H
	7404.00	-54.03	-13	-41.03	-48.24	-57.33	8.30	11.60	V
	11106.00	-52.14	-13	-39.14	-52.93	-53.66	10.48	12.00	V
	14808.00	-46.73	-13	-33.73	-51.95	-48.43	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_41A_n78A / LTE 10MHz + NR 100MHz / QPSK(4+7)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n78 Middle	7404.00	-56.05	-13	-43.05	-61.99	-59.35	8.30	11.60	H
	11106.00	-52.62	-13	-39.62	-65.92	-54.14	10.48	12.00	H
	14808.00	-44.23	-13	-31.23	-62.09	-45.93	11.80	13.50	H
	7404.00	-54.33	-13	-41.33	-60.29	-57.63	8.30	11.60	V
	11106.00	-53.37	-13	-40.37	-66.38	-54.89	10.48	12.00	V
	14808.00	-47.43	-13	-34.43	-64.74	-49.13	11.80	13.50	V
LTE Band41 Middle	5177.00	-63.03	-25	-38.03	-62.52	-68.59	7.14	12.70	H
	7765.50	-59.11	-25	-34.11	-65.09	-62.41	8.30	11.60	H
	10354.00	-54.34	-25	-29.34	-66.10	-55.86	10.48	12.00	H
	5177.00	-62.29	-25	-37.29	-62.07	-67.85	7.14	12.70	V
	7765.50	-56.21	-25	-31.21	-62.03	-59.51	8.30	11.60	V
	10354.00	-56.55	-25	-31.55	-67.44	-58.07	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.