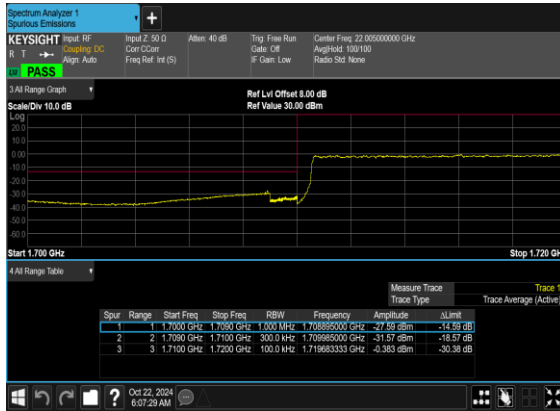




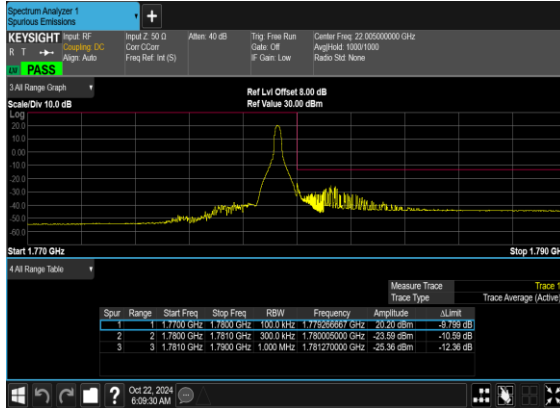
B5_N66(30M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



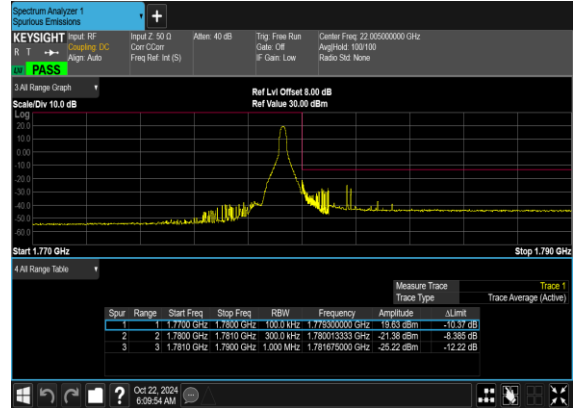
B5_N66(30M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



B5_N66(30M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



B5_N66(30M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH





B5_N66(30M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



B5_N66(30M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 N77

Transmitter Conducted Output Power And EIRP, (G_T-L_C)=-1.72dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	23.32	21.6	0.1445
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	22.34	20.62	0.1153
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@1	23.31	21.59	0.1442
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.43	20.71	0.1178
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	23.52	21.8	0.1514
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	22.6	20.88	0.1225
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	23.29	21.57	0.1435
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	22.48	20.76	0.1191
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@1	23.49	21.77	0.1503
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.47	20.75	0.1189
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	23.4	21.68	0.1472
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	22.5	20.78	0.1197
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	23.38	21.66	0.1466
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	22.72	21	0.1259
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@1	23.5	21.78	0.1507
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.72	21	0.1259
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@1	23.26	21.54	0.1426
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	22.34	20.62	0.1153
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	23.09	21.37	0.1371
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	22.25	20.53	0.1130
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@1	23.19	21.47	0.1403
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.38	20.66	0.1164
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@1	22.38	20.66	0.1164
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@1	21.46	19.74	0.0942
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	23.02	21.3	0.1349
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	22.15	20.43	0.1104



77	30	80	656000	3840	DFT-s-OFDM QPSK	1@1	23.24	21.52	0.1419
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.37	20.65	0.1161
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@1	22.87	21.15	0.1303
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@1	21.94	20.22	0.1052
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	23.31	21.59	0.1442
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	23.07	21.35	0.1365
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	23.27	21.55	0.1429
77	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	23.24	21.52	0.1419
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	23.07	21.35	0.1365
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	23.24	21.52	0.1419
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	22.23	20.51	0.1125
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.19	20.47	0.1114
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	22.36	20.64	0.1159
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	20.7	18.98	0.0791
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	20.63	18.91	0.0778
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	20.83	19.11	0.0815
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	18.68	16.96	0.0497
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	18.45	16.73	0.0471
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	18.74	17.02	0.0504
77	30	100	650000	3750	CP-OFDM QPSK	137@68	21.68	19.96	0.0991
77	30	100	650000	3750	CP-OFDM QPSK	1@1	21.49	19.77	0.0948
77	30	100	650000	3750	CP-OFDM QPSK	1@271	21.91	20.19	0.1045
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	22.92	21.2	0.1318
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	23.16	21.44	0.1393
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@271	22.74	21.02	0.1265
77	30	100	656000	3840	DFT-s-OFDM QPSK	135@67	22.91	21.19	0.1315
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@1	23.24	21.52	0.1419
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@271	22.79	21.07	0.1279
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	135@67	21.94	20.22	0.1052
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.37	20.65	0.1161
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@271	21.79	20.07	0.1016
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	135@67	20.42	18.7	0.0741



77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@1	20.72	19	0.0794
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@271	20.28	18.56	0.0718
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	135@67	18.43	16.71	0.0469
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@1	18.62	16.9	0.0490
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@271	18.16	16.44	0.0441
77	30	100	656000	3840	CP-OFDM QPSK	137@68	21.43	19.71	0.0935
77	30	100	656000	3840	CP-OFDM QPSK	1@1	21.72	20	0.1000
77	30	100	656000	3840	CP-OFDM QPSK	1@271	21.21	19.49	0.0889
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	135@67	22.64	20.92	0.1236
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@1	23.06	21.34	0.1361
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@271	22.37	20.65	0.1161
77	30	100	662000	3930	DFT-s-OFDM QPSK	135@67	22.64	20.92	0.1236
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@1	23.02	21.3	0.1349
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@271	23.6	21.88	0.1542
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	135@67	21.58	19.86	0.0968
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@1	22.08	20.36	0.1086
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@271	21.57	19.85	0.0966
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	135@67	20.11	18.39	0.0690
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@1	20.58	18.86	0.0769
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@271	19.88	18.16	0.0655
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	135@67	18.14	16.42	0.0439
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@1	18.4	16.68	0.0466
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@271	17.76	16.04	0.0402
77	30	100	662000	3930	CP-OFDM QPSK	137@68	21.1	19.38	0.0867
77	30	100	662000	3930	CP-OFDM QPSK	1@1	21.44	19.72	0.0938
77	30	100	662000	3930	CP-OFDM QPSK	1@271	20.96	19.24	0.0839



Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (hz)	Verdict	Environment
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	4.7	PASS	NV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	5.4	PASS	LV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	12.4	PASS	HV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	13.5	PASS	-30℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	11	PASS	-20℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	15.4	PASS	-10℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	6.6	PASS	0℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	4.7	PASS	10℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	11.9	PASS	20℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	9	PASS	30℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	10.3	PASS	40℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	9.4	PASS	50℃



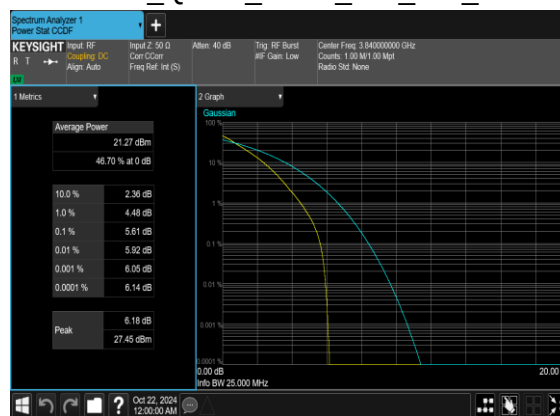
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	4.32	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	5.61	13	PASS

N77(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



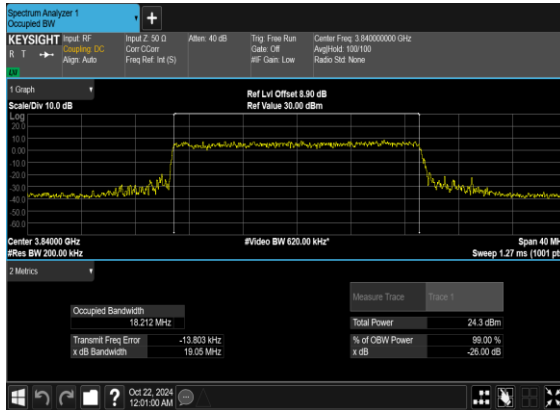
**Occupied Bandwidth**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.212	19.05
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.288	19.47
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.246	19.57
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.183	19.77
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.904	29.16
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.889	29.24
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.819	29.12
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.825	29.15
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.805	39.33
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.89	39.33
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.854	39.23
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.85	39.42
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	58.085	59.93
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.799	60.21
77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	58.008	59.63
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.872	59.91
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.544	79.96
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.626	80.2
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.629	79.91
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.67	79.8
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.533	100.6
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.448	100.6

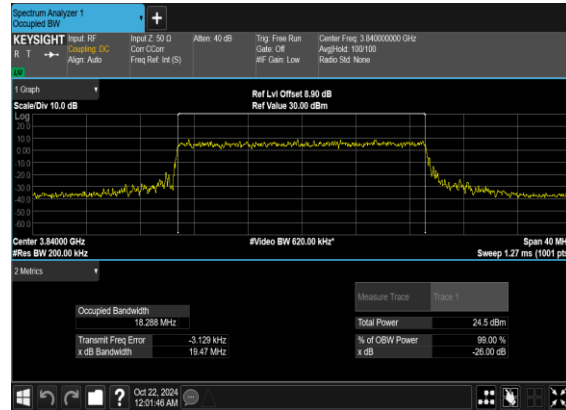


77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.394	100.4
77	30	100	656000	3840.0	CP-OFDM 256 QAM	273@0	97.651	100.5

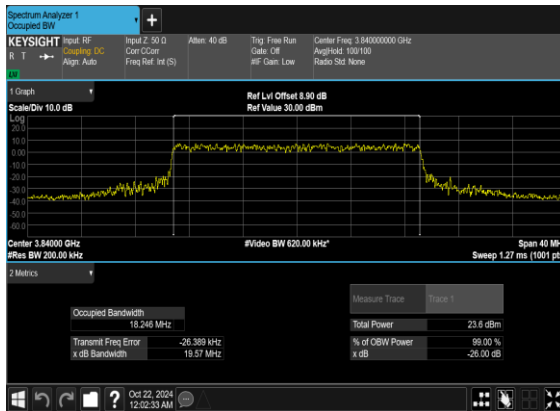
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OFDM_QPSK_Outer_Full_Mid_CH



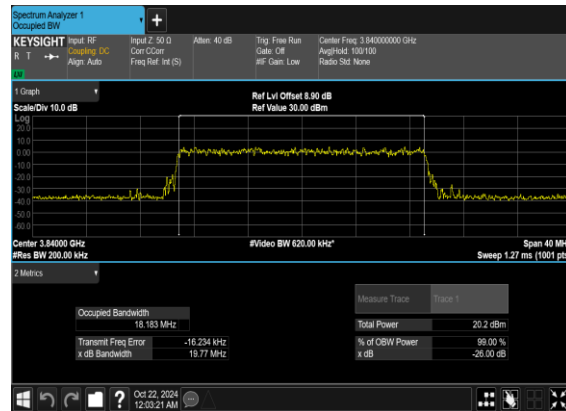
N77(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

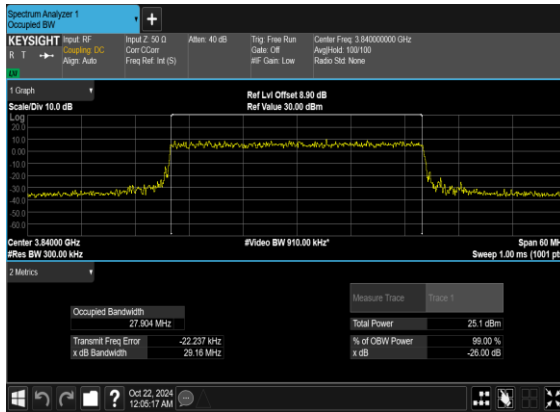


N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

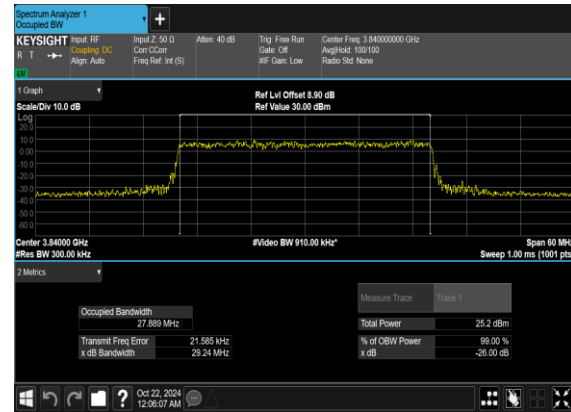




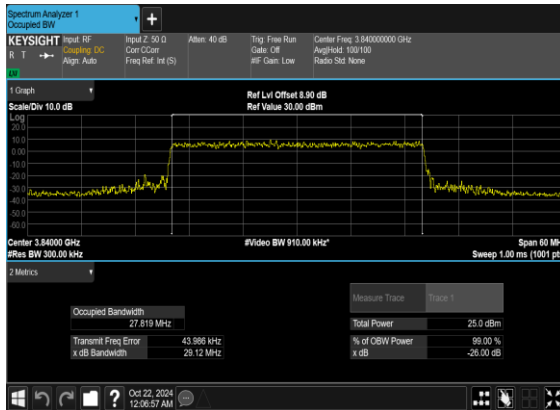
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OFDM_QPSK_Outer_Full_Mid_CH



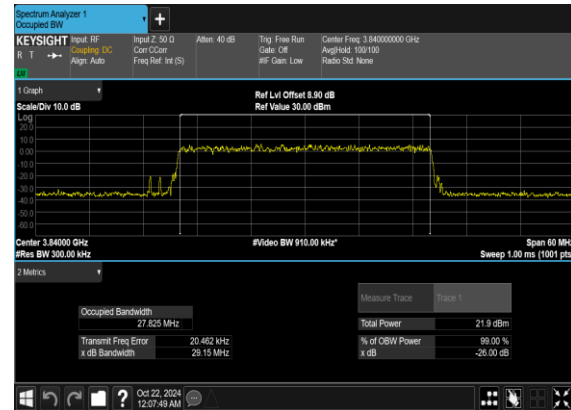
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QAM_Outer_Full_Mid_CH



N77(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

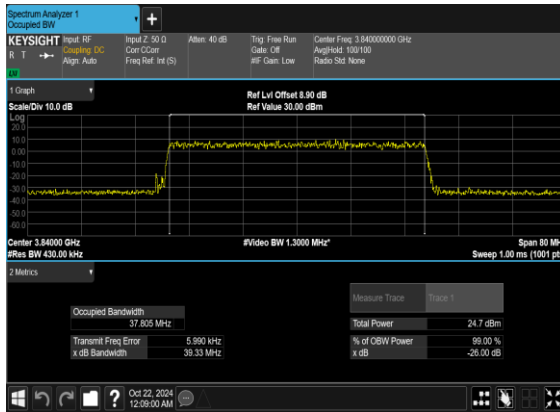


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QAM_Outer_Full_Mid_CH

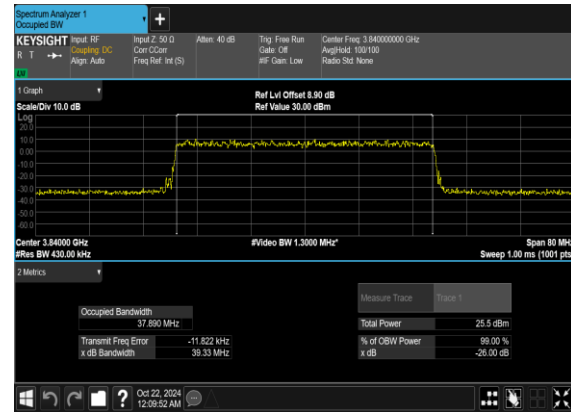




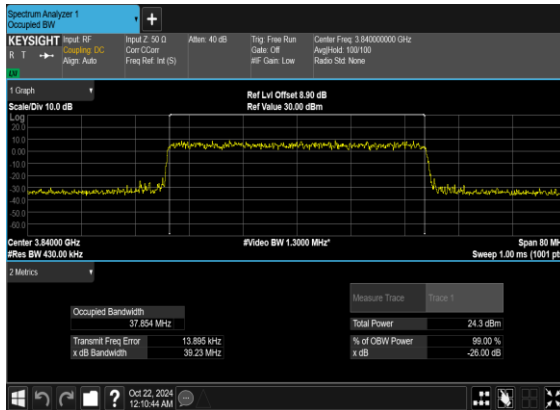
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OFDM_QPSK_Outer_Full_Mid_CH



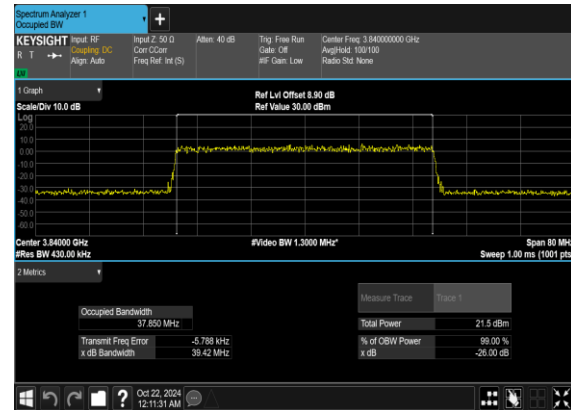
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QAM_Outer_Full_Mid_CH



N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

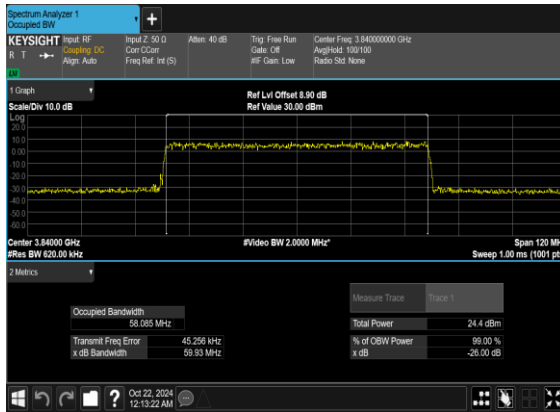


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QAM_Outer_Full_Mid_CH

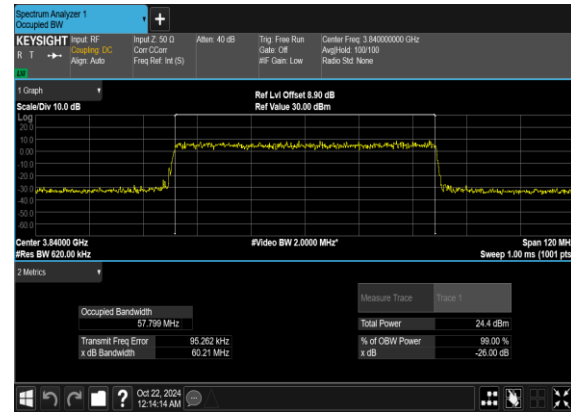




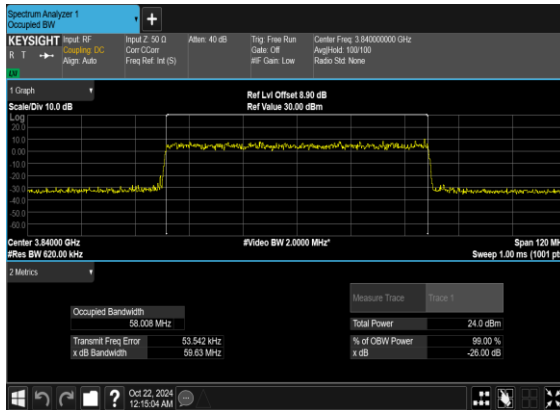
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OFDM_QPSK_Outer_Full_Mid_CH



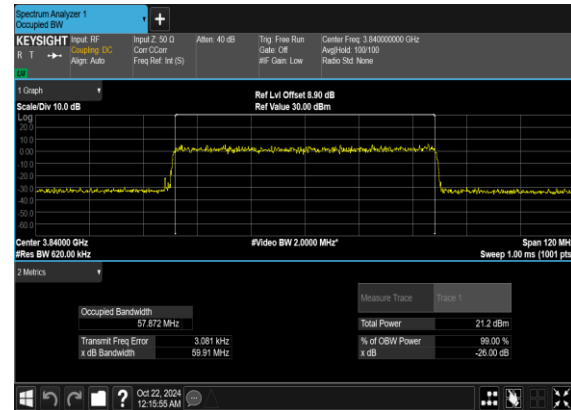
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QAM_Outer_Full_Mid_CH



N77(60M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

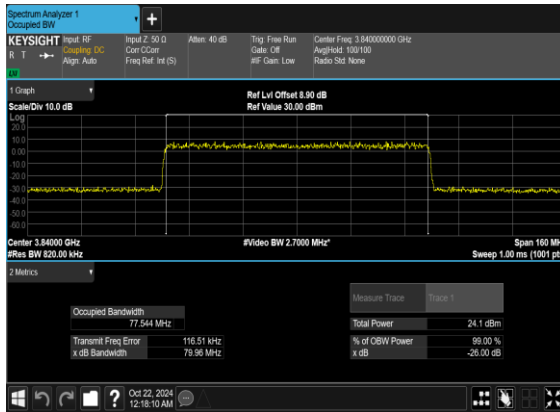


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QAM_Outer_Full_Mid_CH

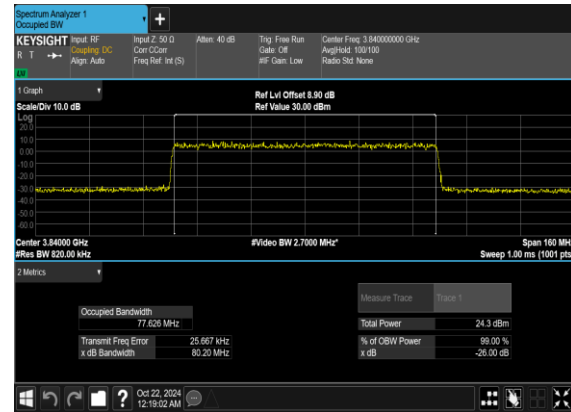




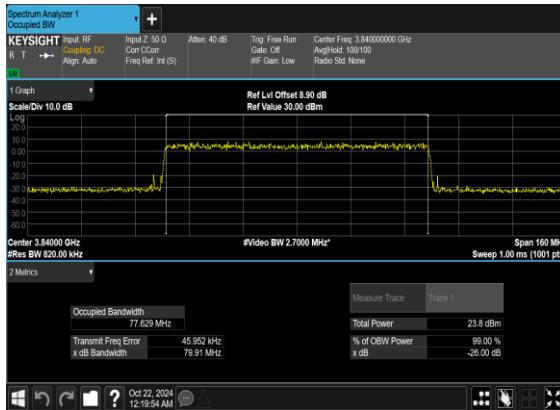
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OFDM_QPSK_Outer_Full_Mid_CH



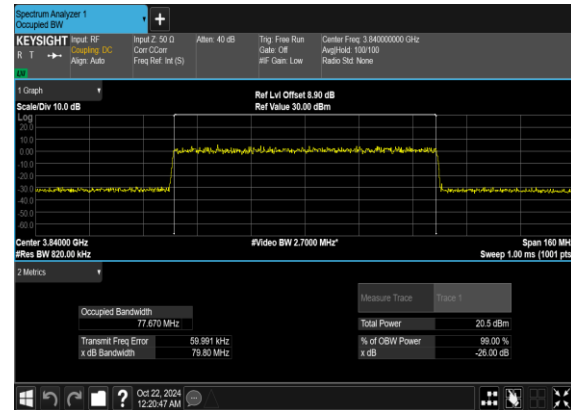
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QAM_Outer_Full_Mid_CH



N77(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

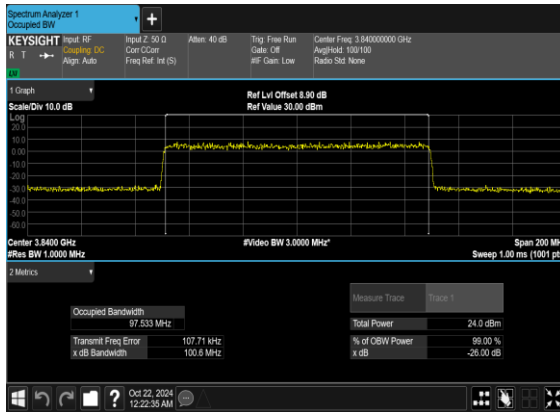


N77(80M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

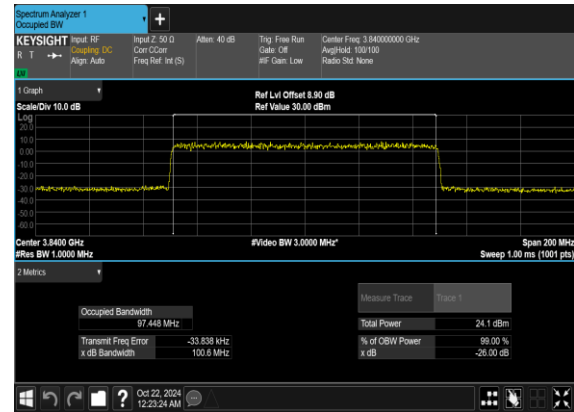




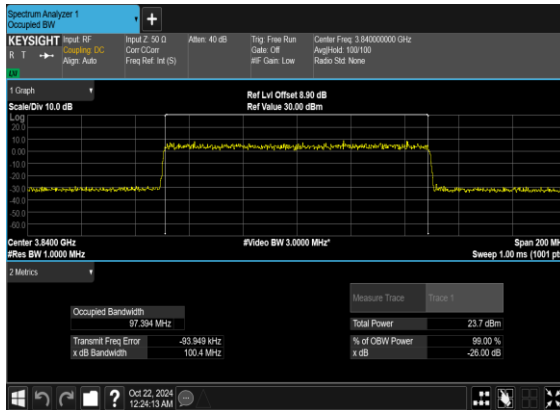
N77(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



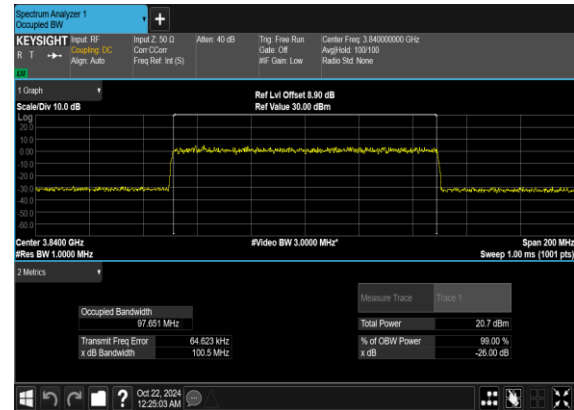
N77(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



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	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	20	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	20	664666	3969.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	PASS



77	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	60	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	60	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	60	663332	3949.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS



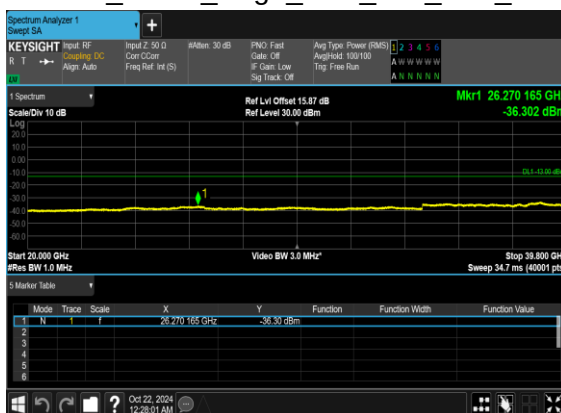
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	PASS



N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



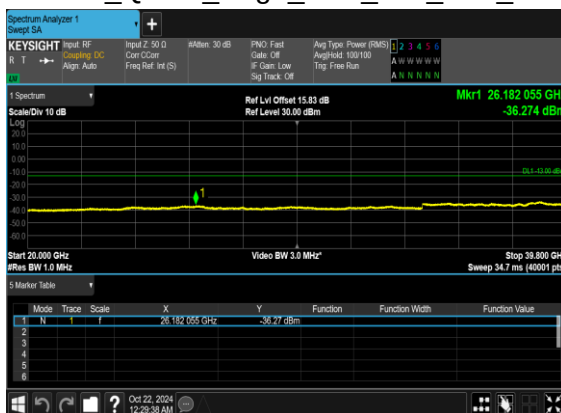
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH

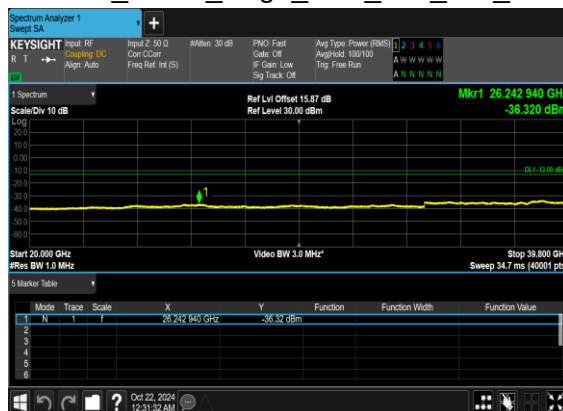
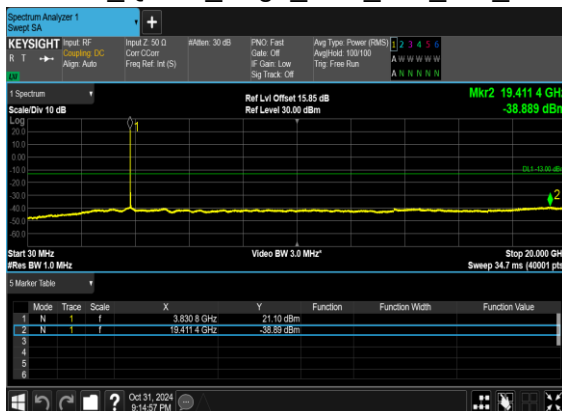
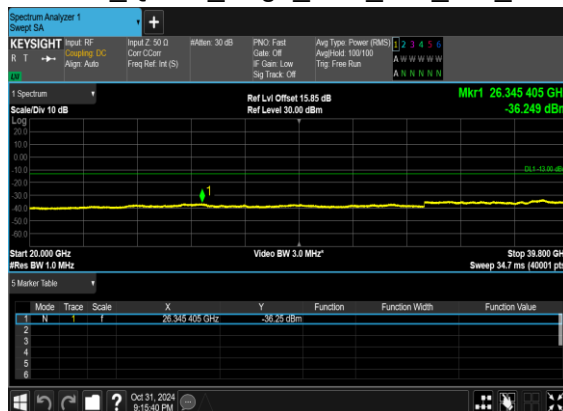


N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



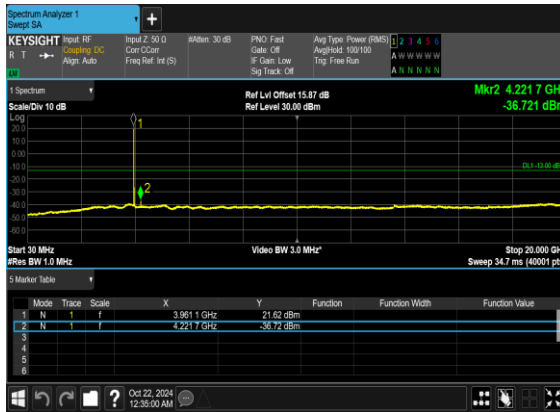
N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



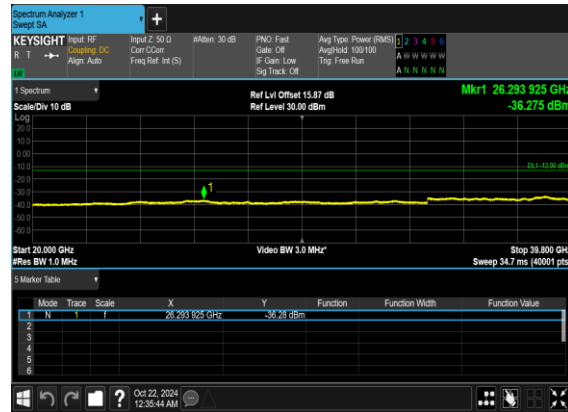
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CHN77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CHN77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



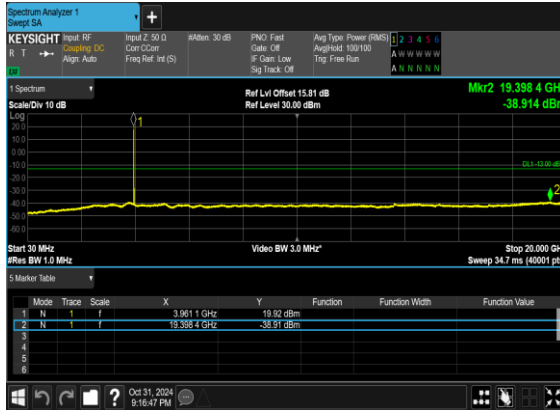
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



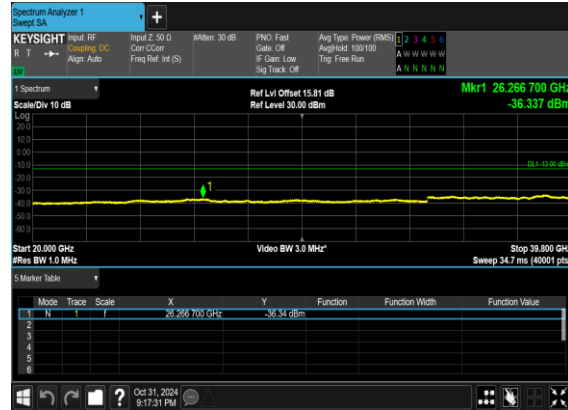
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

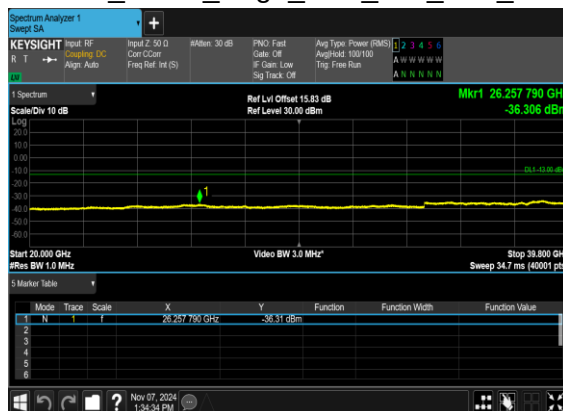
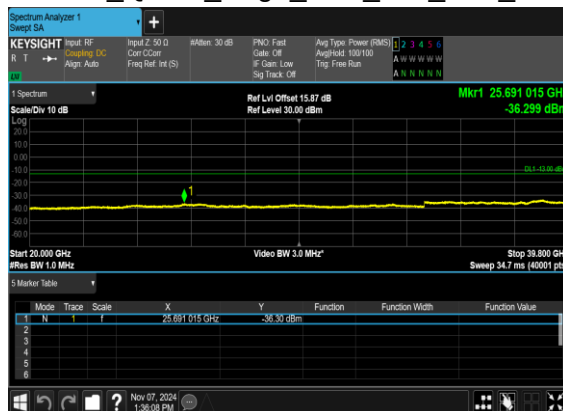


N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



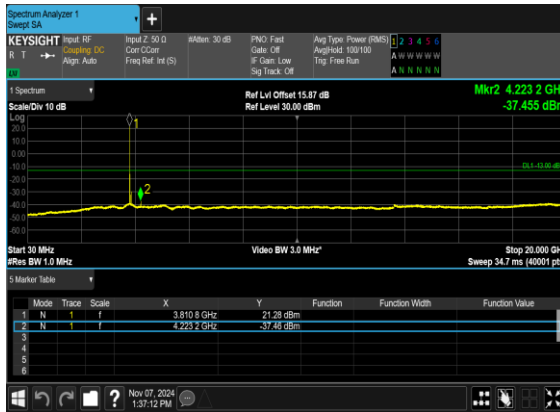
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



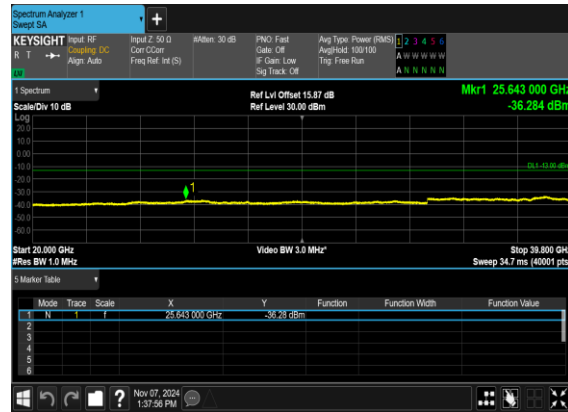
N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHN77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHN77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



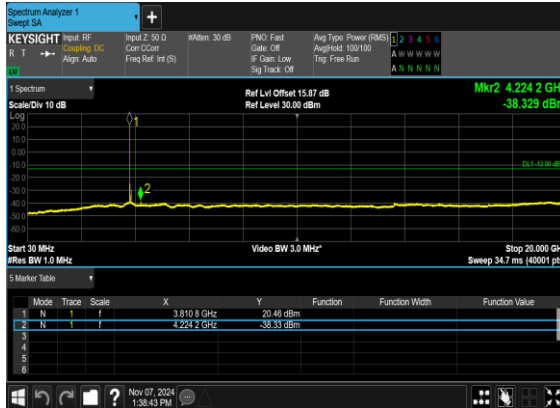
N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



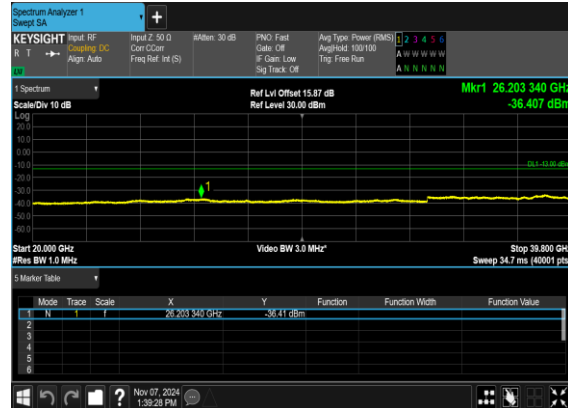
N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

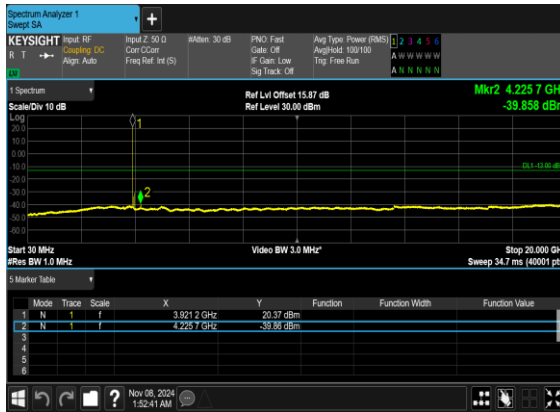


N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

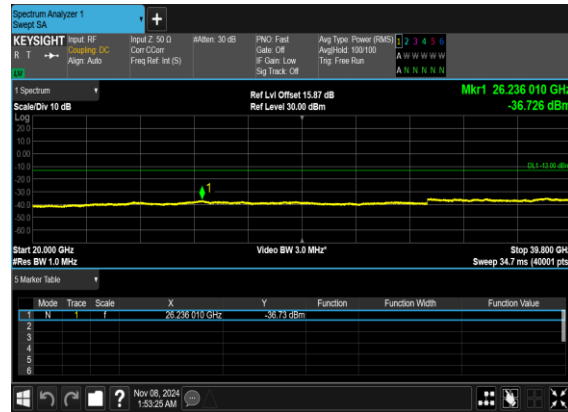




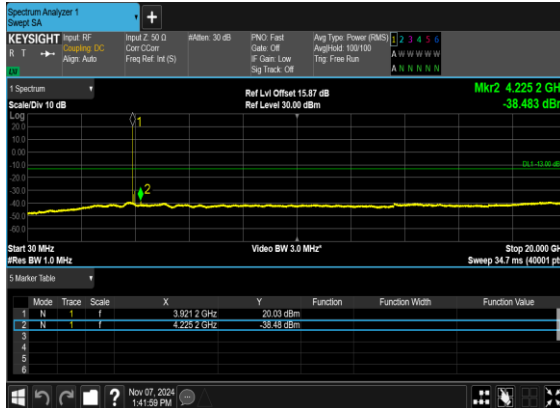
N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



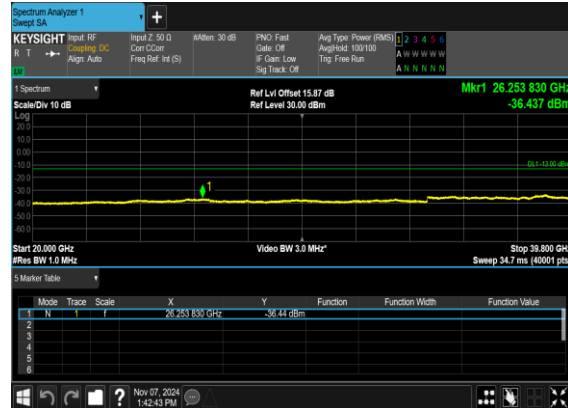
N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

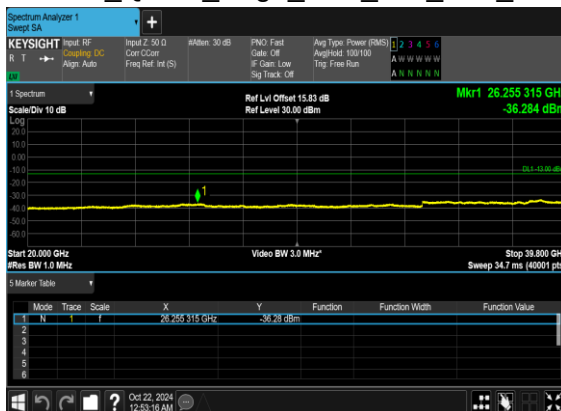


N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



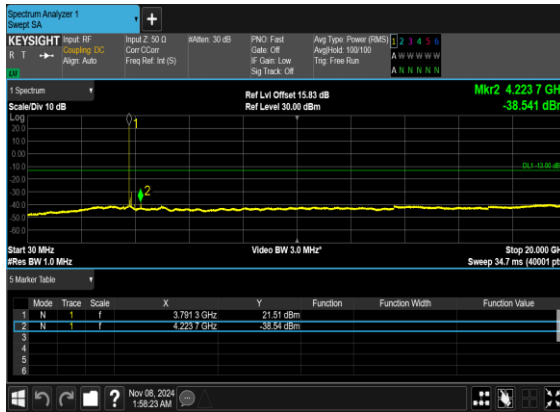
N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



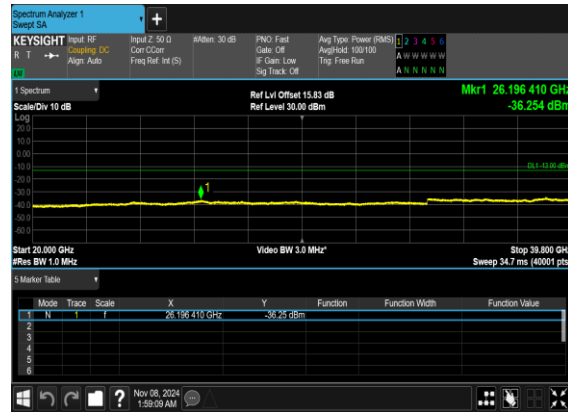
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHN77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHN77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



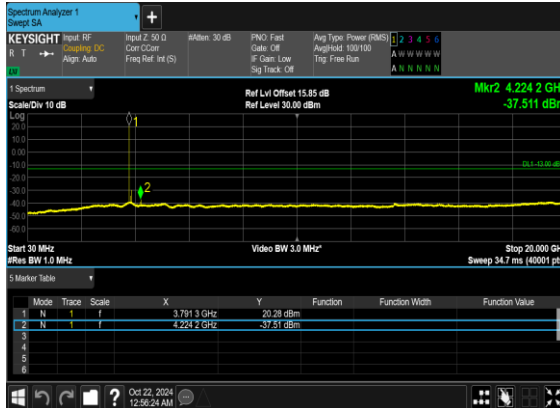
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



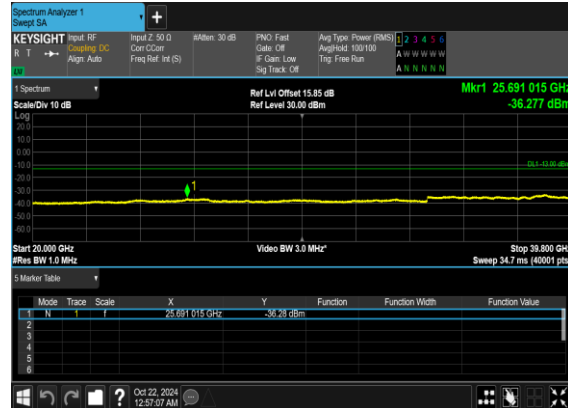
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH





N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



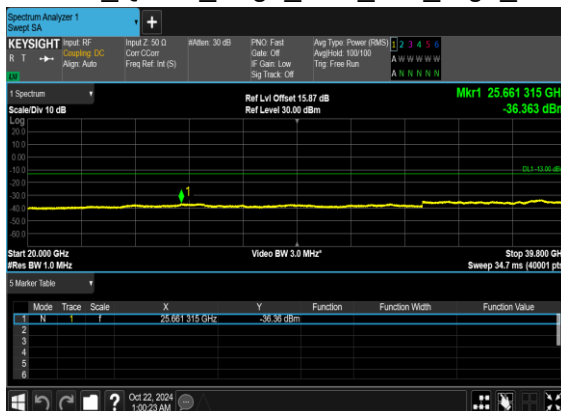
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



**Conducted Band Edge**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	647334	3710.01	DFT-s-OFDM BPSK	50@0	see graph	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	50@0	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM BPSK	1@50	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@50	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM BPSK	50@0	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	50@0	see graph	PASS
77	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	648668	3730.02	DFT-s-OFDM BPSK	162@0	see graph	PASS
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	162@0	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM BPSK	1@161	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@161	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM BPSK	162@0	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	162@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	270@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@272	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@272	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	270@0	see graph	PASS



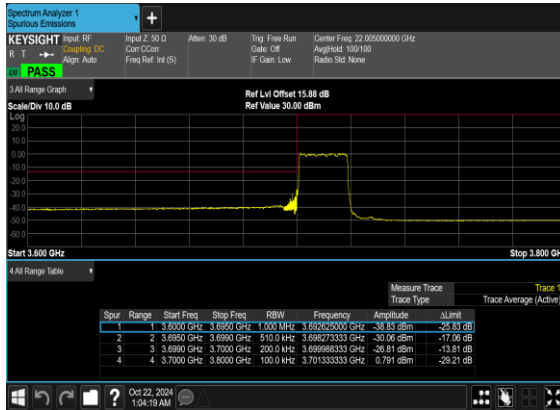
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH





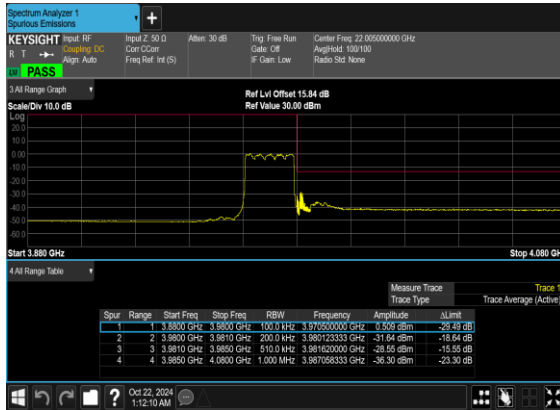
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

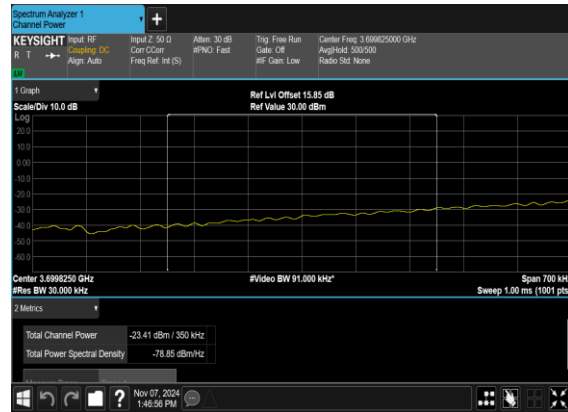




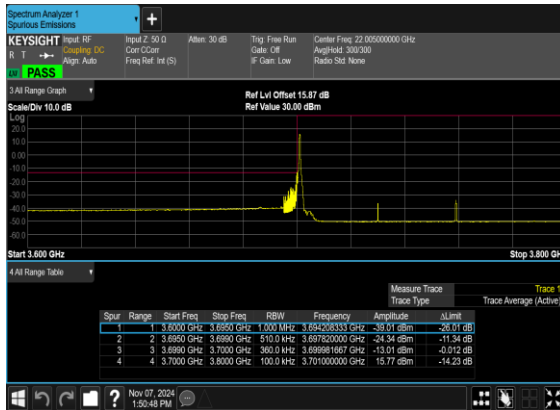
N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



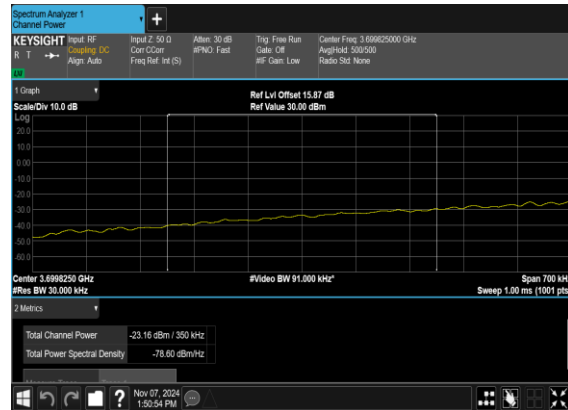
N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PASS



N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

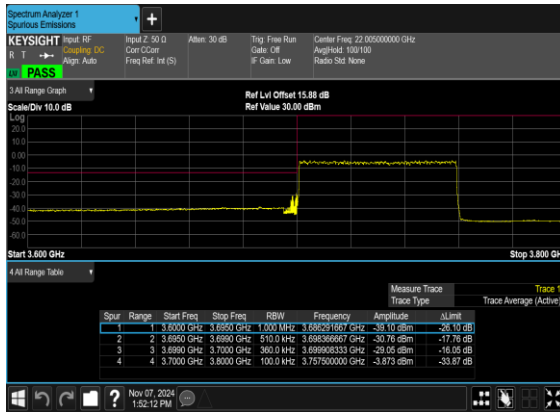


N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PASS

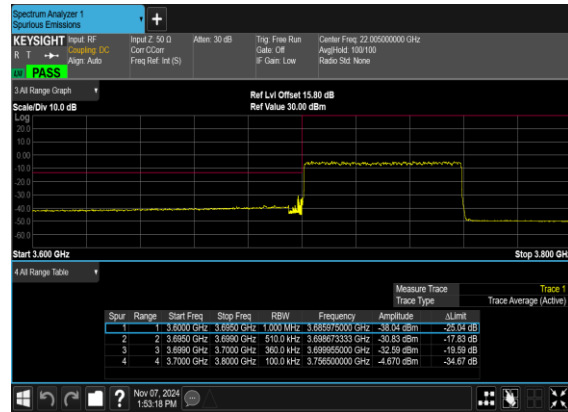




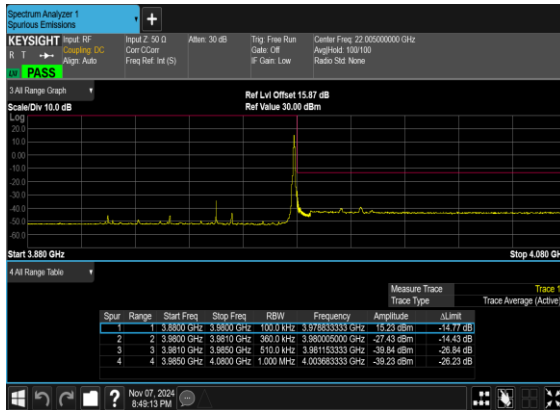
N77(60M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



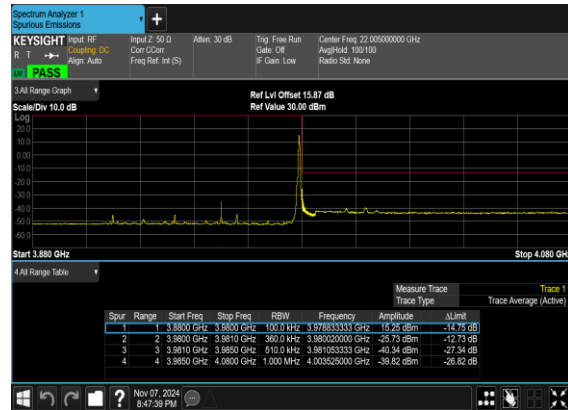
N77(60M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N77(60M)_DFT-s-OFDM_QPSK
_Edge_1RB_Right_High_CH

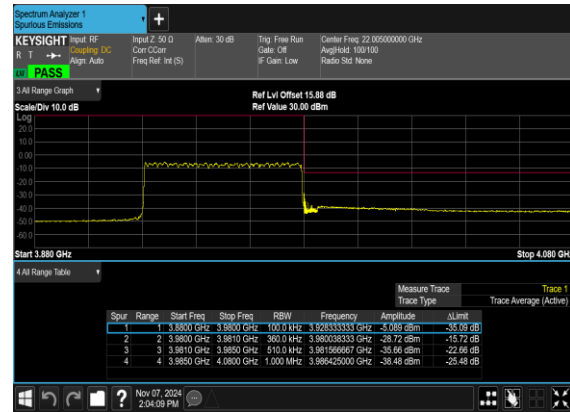




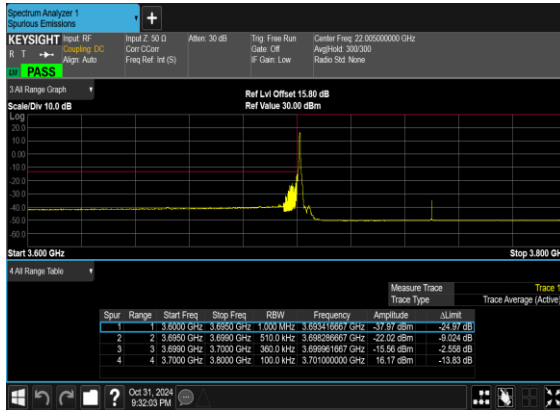
N77(60M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



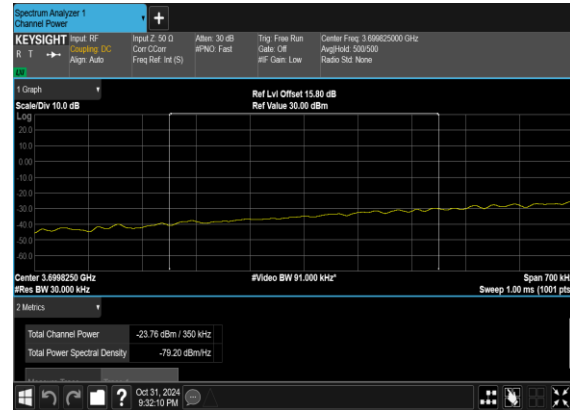
N77(60M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH

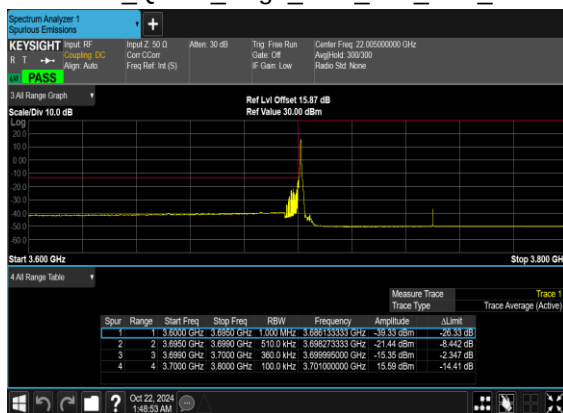


N77(100M)_DFT-s-OFDM_BPSK
_Edge_1RB_Left_Low_CH_CHP_PASS

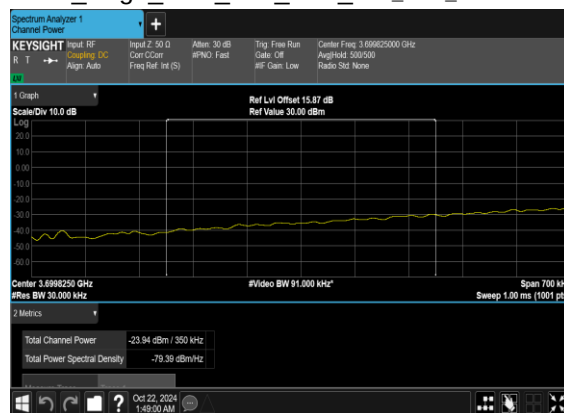




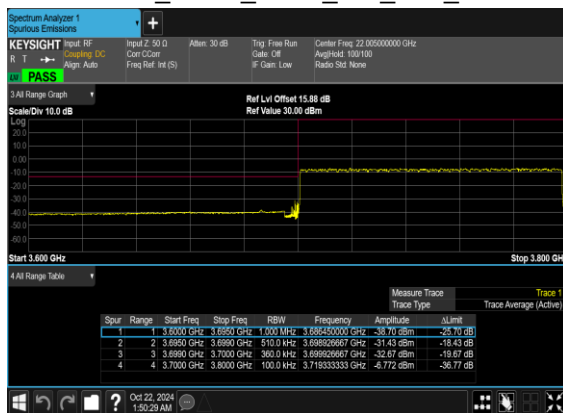
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



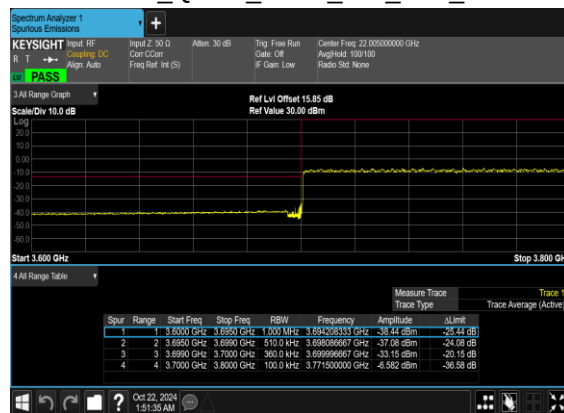
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PASS



N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

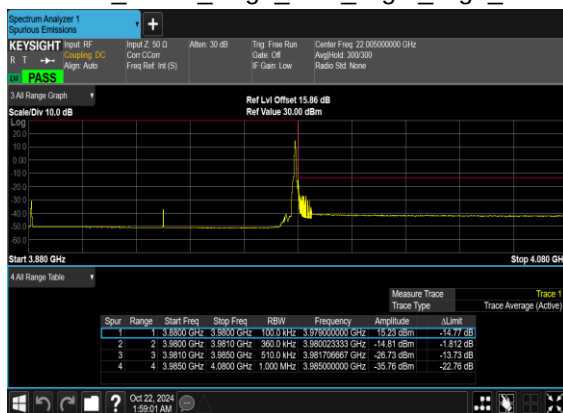


N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

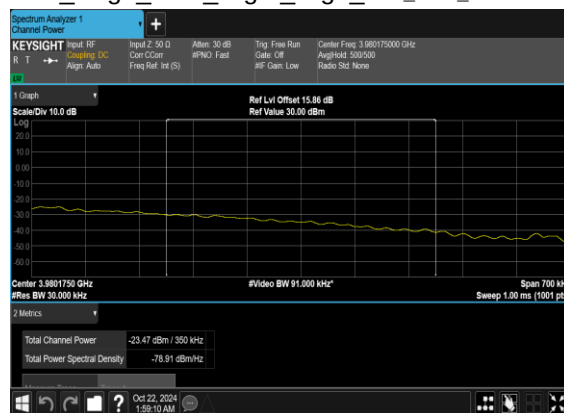




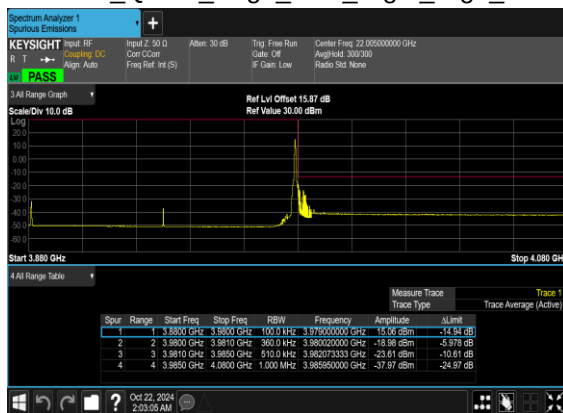
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



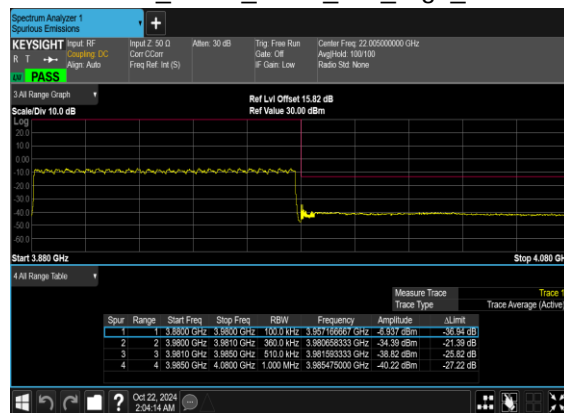
N77(100M)_DFT-s-OFDM_BPSK
Edge_1RB_Right_High_CH_chp_PASS



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





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	HuaCong Liang	Temperature :	22~25°C
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

n2 SA / NR 20MHz / QPSK(ANT2)									
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	3741.5	-57.25	-13	-44.25	-80.29	-64.00	5.85	12.60	H
	5612.25	-56.79	-13	-43.79	-81.37	-62.59	7.30	13.10	H
	7483	-54.69	-13	-41.69	-81.77	-57.84	8.35	11.50	H
	3741.5	-55.21	-13	-42.21	-80.26	-61.96	5.85	12.60	V
	5612.25	-56.14	-13	-43.14	-81.57	-61.94	7.30	13.10	V
	7483	-54.73	-13	-41.73	-81.79	-57.88	8.35	11.50	V

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

EN-DC 5A_n2A / LTE 10MHz + NR 20MHz / QPSK (ANT0+2)									
Channel	Frequency (MHz)	EIRP/ERP (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 n2 Middle	3741.5	-57.26	-13	-44.26	-80.30	-64.01	5.85	12.60	H
	5612.25	-56.89	-13	-43.89	-81.47	-62.69	7.30	13.10	H
	7483	-53.93	-13	-40.93	-81.01	-57.08	8.35	11.50	H
	3741.5	-54.74	-13	-41.74	-79.79	-61.49	5.85	12.60	V
	5612.25	-56.05	-13	-43.05	-81.48	-61.85	7.30	13.10	V
	7483	-54.36	-13	-41.36	-81.42	-57.51	8.35	11.50	V
LTE Band5 Middle	1664.18	-64.74	-13	-51.74	-76.94	-67.99	4.00	9.40	H
	2496.27	-59.51	-13	-46.51	-78.88	-63.08	4.88	10.60	H
	3328.36	-58.69	-13	-45.69	-79.94	-63.62	5.52	12.60	H
	1664.18	-64.15	-13	-51.15	-77.02	-67.40	4.00	9.40	V
	2496.27	-59.02	-13	-46.02	-78.65	-62.59	4.88	10.60	V
	3328.36	-58.53	-13	-45.53	-80.28	-63.46	5.52	12.60	V

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



n5 SA / NR 20MHz / QPSK(ANT0)									
Channel	Frequency (MHz)	ERP (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	1654.5	-64.33	-13	-51.33	-76.46	-67.58	4.00	9.40	H
	2481.75	-59.47	-13	-46.47	-78.72	-63.04	4.88	10.60	H
	3309	-58.56	-13	-45.56	-79.71	-63.49	5.52	12.60	H
	1654.5	-63.55	-13	-50.55	-76.32	-66.80	4.00	9.40	V
	2481.75	-59.24	-13	-46.24	-78.81	-62.81	4.88	10.60	V
	3309	-57.56	-13	-44.56	-79.41	-62.49	5.52	12.60	V

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

EN-DC 7A_n5A / LTE 10MHz + NR 20MHz / QPSK (ANT2+0)									
Channel	Frequency (MHz)	ERP/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 n5 Middle	1654.5	-64.56	-13	-51.56	-76.69	-67.81	4.00	9.40	H
	2481.75	-59.83	-13	-46.83	-79.08	-63.40	4.88	10.60	H
	3309	-58.69	-13	-45.69	-79.84	-63.62	5.52	12.60	H
	1654.5	-64.17	-13	-51.17	-76.94	-67.42	4.00	9.40	V
	2481.75	-59.49	-13	-46.49	-79.06	-63.06	4.88	10.60	V
	3309	-57.58	-13	-44.58	-79.43	-62.51	5.52	12.60	V
LTE Band7 Middle	5061.18	-56.95	-25	-31.95	-81.02	-62.51	7.14	12.70	H
	7591.77	-55.40	-25	-30.40	-82.03	-58.70	8.30	11.60	H
	10122.36	-52.29	-25	-27.29	-83.25	-53.81	10.48	12.00	H
	5061.18	-55.92	-25	-30.92	-81.2	-61.48	7.14	12.70	V
	7591.77	-54.94	-25	-29.94	-81.57	-58.24	8.30	11.60	V
	10122.36	-50.55	-25	-25.55	-82.56	-52.07	10.48	12.00	V

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

n66 SA / NR 30MHz / QPSK(ANT2)									
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	3462	-57.76	-13	-44.76	-80.01	-64.61	5.65	12.50	H
	5193	-56.68	-13	-43.68	-81.56	-62.35	7.13	12.80	H
	6924	-55.12	-13	-42.12	-81.36	-58.52	8.40	11.80	H
	3462	-57.50	-13	-44.50	-79.55	-64.35	5.65	12.50	V
	5193	-55.88	-13	-42.88	-81.03	-61.55	7.13	12.80	V
	6924	-54.23	-13	-41.23	-81.57	-57.63	8.40	11.80	V

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



EN-DC_7A_n66A / LTE 10MHz + NR 30MHz / QPSK (ANT3+2)									
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 n66 Middle	3462	-58.95	-13	-45.95	-81.20	-65.80	5.65	12.50	H
	5193	-56.85	-13	-43.85	-81.73	-62.52	7.13	12.80	H
	6924	-55.27	-13	-42.27	-81.51	-58.67	8.40	11.80	H
	3462	-58.37	-13	-45.37	-80.42	-65.22	5.65	12.50	V
	5193	-56.68	-13	-43.68	-81.83	-62.35	7.13	12.80	V
	6924	-54.41	-13	-41.41	-81.75	-57.81	8.40	11.80	V
LTE Band7 Middle	5061.18	-57.12	-25	-32.12	-81.19	-62.68	7.14	12.70	H
	7591.77	-55.30	-25	-30.30	-81.93	-58.60	8.30	11.60	H
	10122.36	-52.17	-25	-27.17	-83.13	-53.69	10.48	12.00	H
	5061.18	-56.20	-25	-31.20	-81.48	-61.76	7.14	12.70	V
	7591.77	-55.49	-25	-30.49	-82.12	-58.79	8.30	11.60	V
	10122.36	-51.09	-25	-26.09	-83.1	-52.61	10.48	12.00	V

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

n77 SA / NR 100MHz / QPSK(ANT3)									
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	7582.36	-58.02	-13	-45.02	-66.33	-61.32	8.30	11.60	H
	11373.54	-54.76	-13	-41.76	-69.10	-56.28	10.48	12.00	H
	15164.72	-52.16	-13	-39.16	-70.25	-53.86	11.80	13.50	H
	7582.36	-58.07	-13	-45.07	-66.38	-61.37	8.30	11.60	V
	11373.54	-50.91	-13	-37.91	-69.33	-52.43	10.48	12.00	V
	15164.72	-52.46	-13	-39.46	-70.54	-54.16	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 (ANT2+3)									
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	7582.36	-57.91	-13	-44.91	-66.22	-61.21	8.30	11.60	H
	11373.54	-54.41	-13	-41.41	-68.75	-55.93	10.48	12.00	H
	15164.72	-51.57	-13	-38.57	-69.66	-53.27	11.80	13.50	H
	7582.36	-57.73	-13	-44.73	-66.04	-61.03	8.30	11.60	V
	11373.54	-50.52	-13	-37.52	-68.94	-52.04	10.48	12.00	V
	15164.72	-51.39	-13	-38.39	-69.47	-53.09	11.80	13.50	V
LTE Band41 Middle	5177.00	-57.23	-25	-32.23	-81.99	-62.79	7.14	12.70	H
	7765.50	-57.60	-25	-32.60	-65.44	-60.90	8.30	11.60	H
	10354.00	-56.20	-25	-31.20	-68.22	-57.72	10.48	12.00	H
	5177.00	-56.35	-25	-31.35	-81.5	-61.91	7.14	12.70	V
	7765.50	-54.24	-25	-29.24	-65.51	-57.54	8.30	11.60	V
	10354.00	-54.40	-25	-29.40	-68.22	-55.92	10.48	12.00	V

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