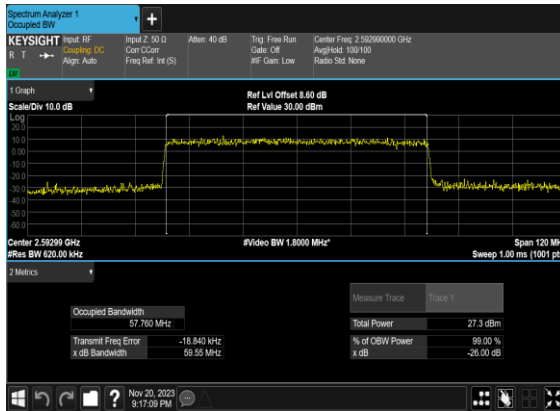
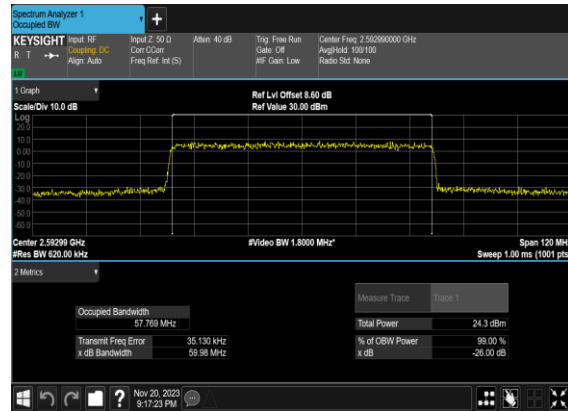


B4_N41(60M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



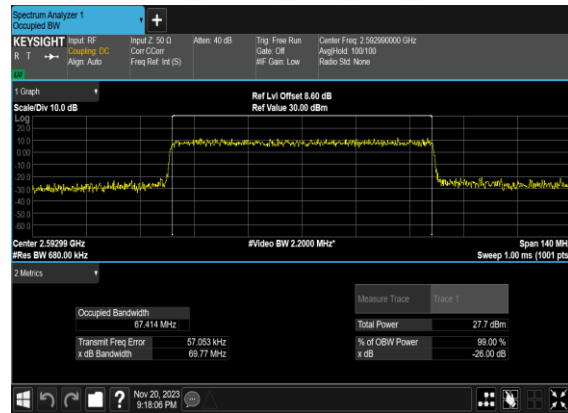
B4_N41(60M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



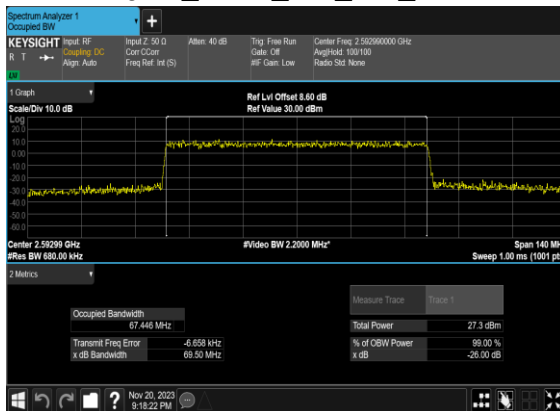
B4_N41(70M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



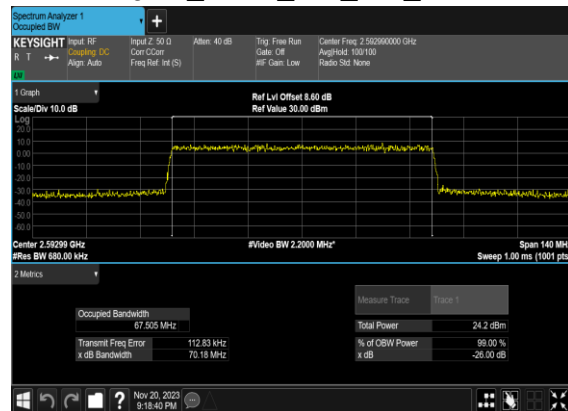
B4_N41(70M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



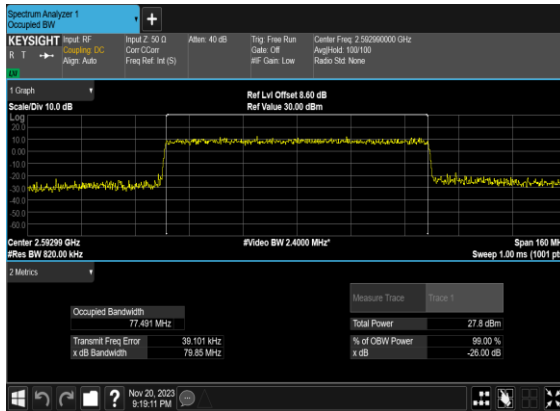
B4_N41(70M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



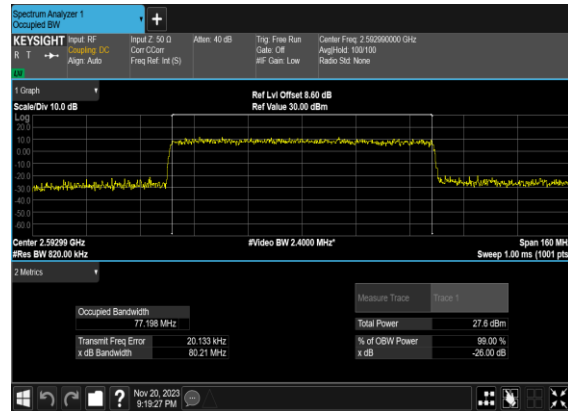
B4_N41(70M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



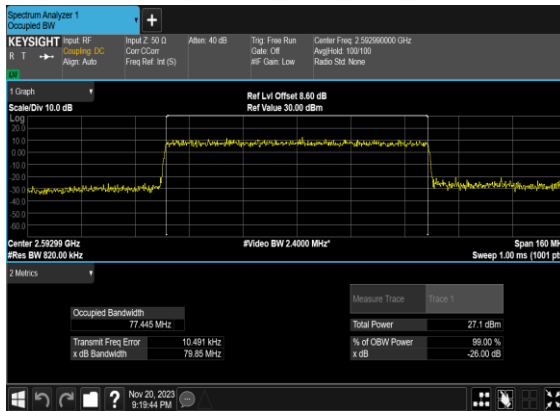
B4_N41(80M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



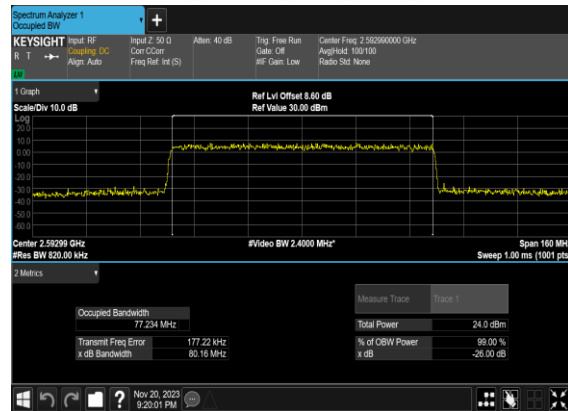
B4_N41(80M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



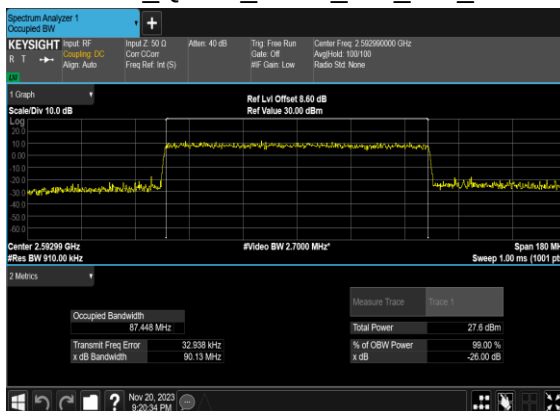
B4_N41(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



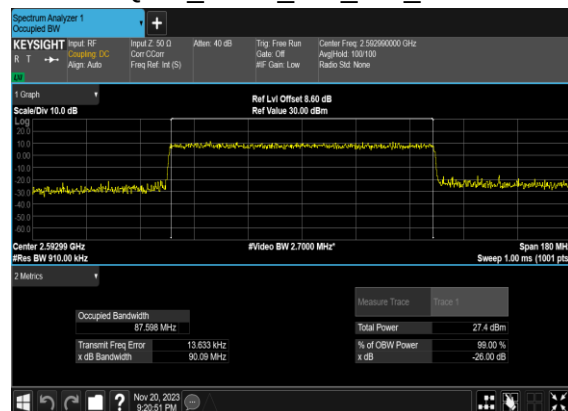
B4_N41(80M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



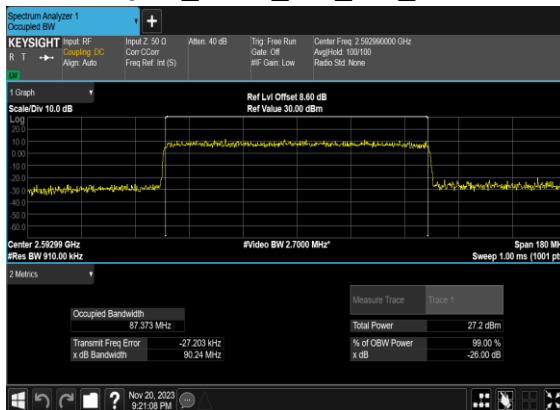
B4_N41(90M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



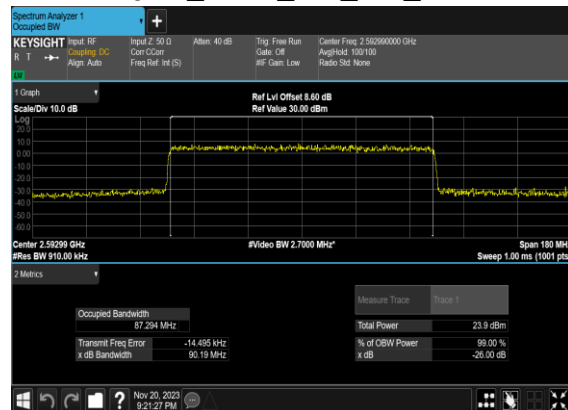
B4_N41(90M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



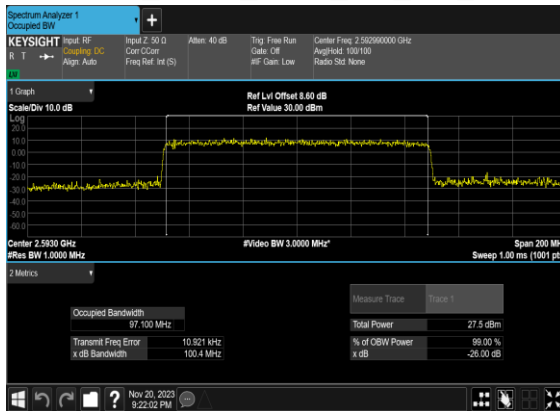
B4_N41(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



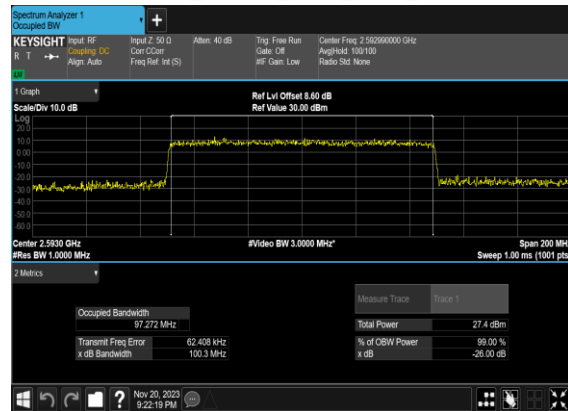
B4_N41(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



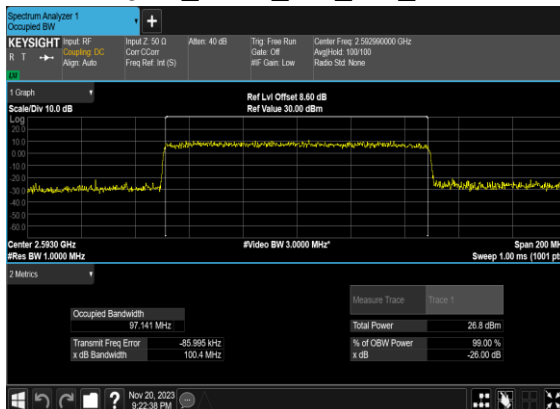
B4_N41(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



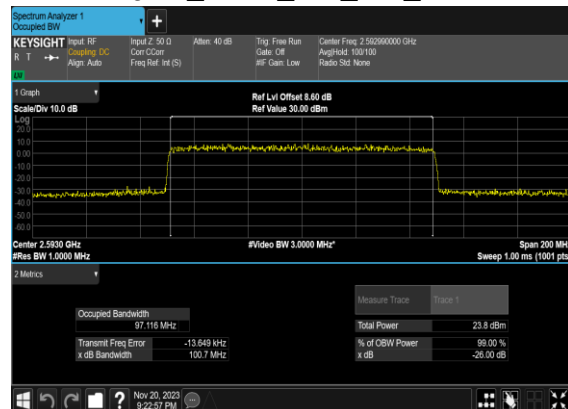
B4_N41(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B4_N41(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



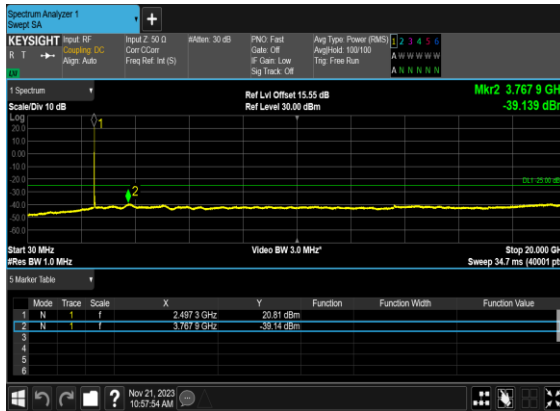
B4_N41(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



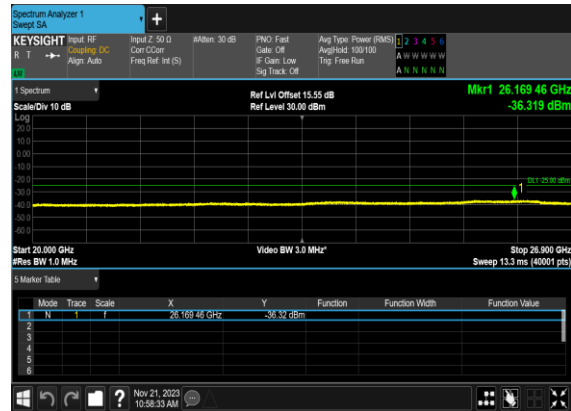
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	60	505200	2526.0	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	60	505200	2526.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	60	505200	2526.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

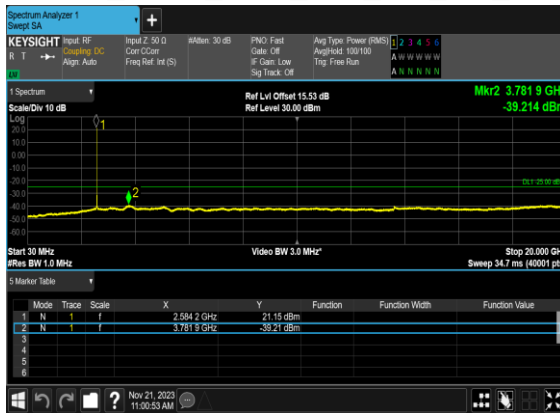
B4_N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



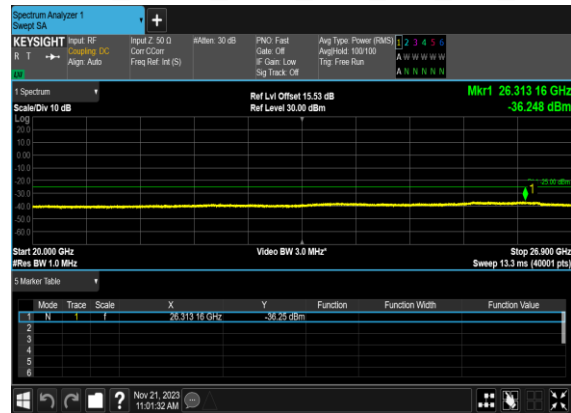
B4_N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



B4_N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



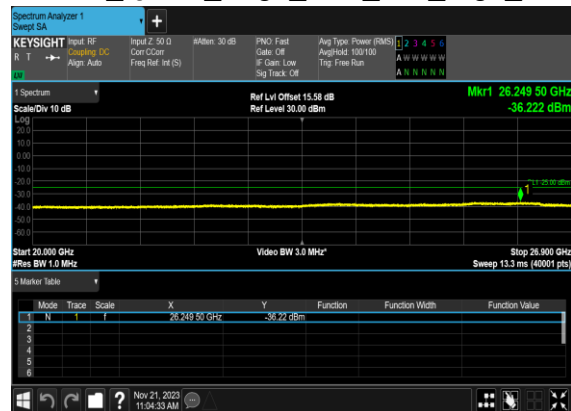
B4_N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



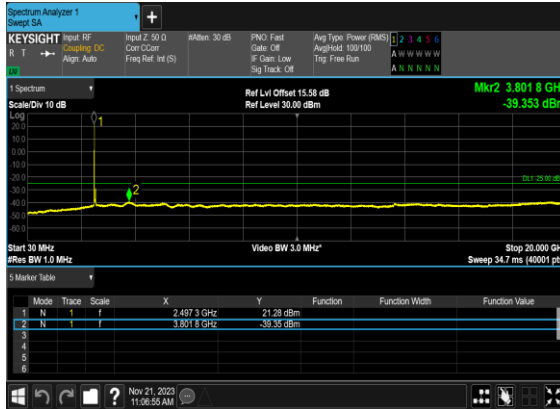
B4_N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



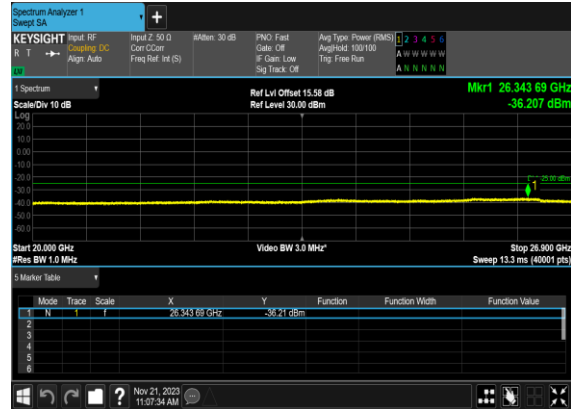
B4_N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



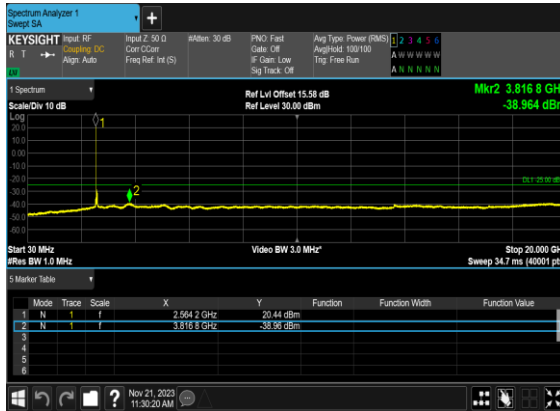
B4_N41(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



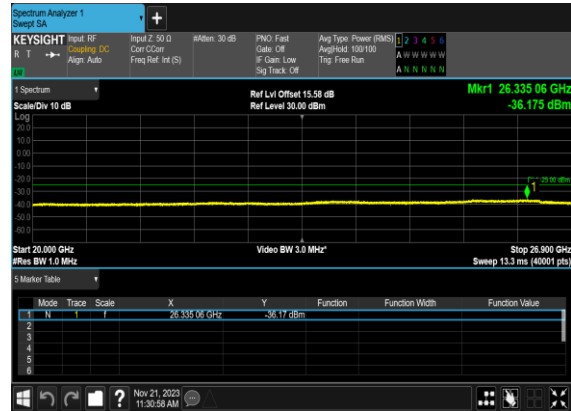
B4_N41(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



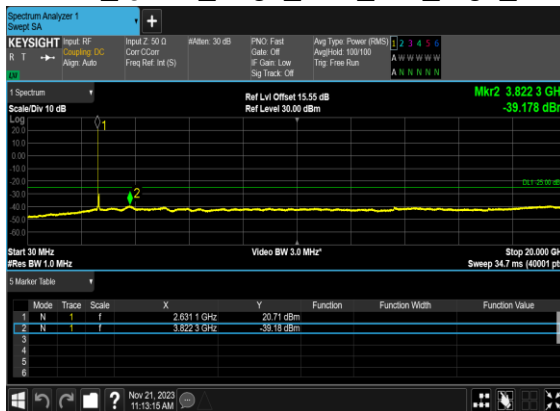
B4_N41(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



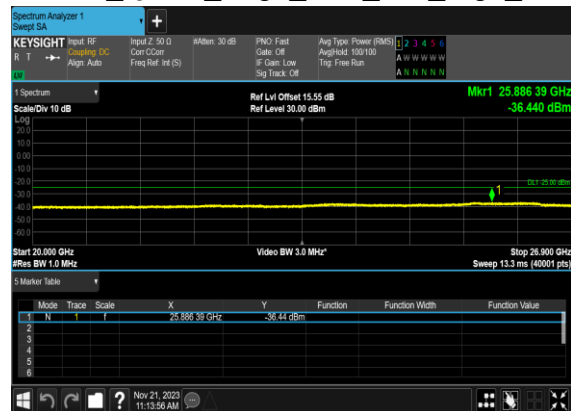
B4_N41(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



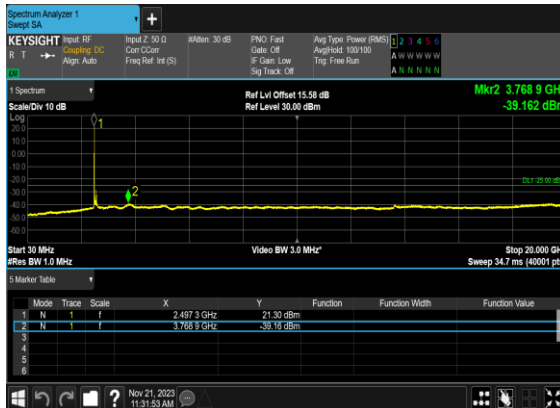
B4_N41(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



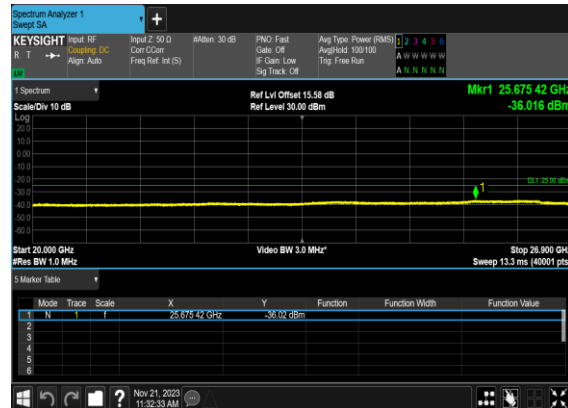
B4_N41(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



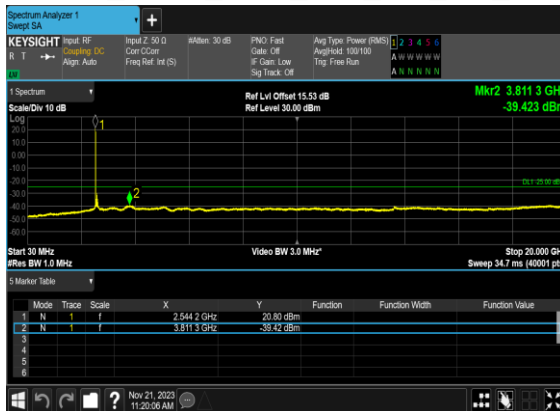
B4_N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



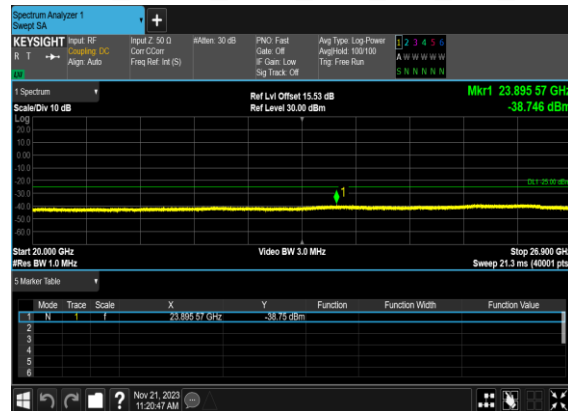
B4_N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



B4_N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



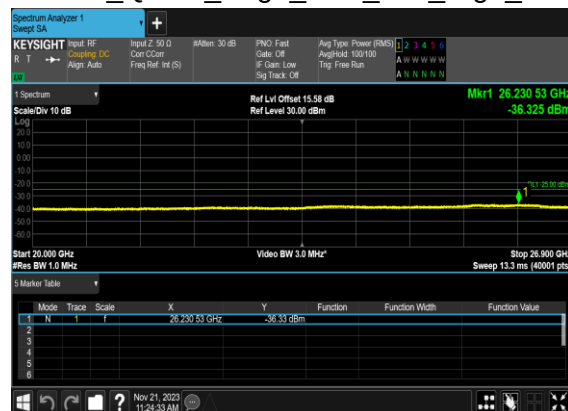
B4_N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B4_N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



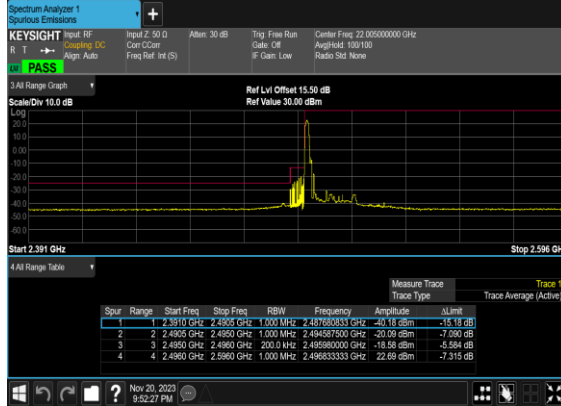
B4_N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



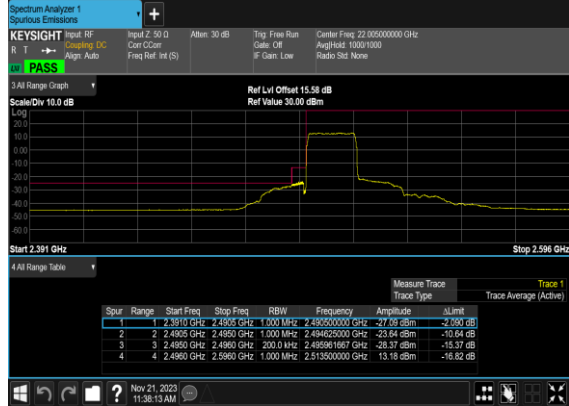
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	50@0	see graph	PASS
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@50	see graph	PASS
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	50@0	see graph	PASS
41	30	60	505200	2526.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	60	505200	2526.0	DFT-s-OFDM QPSK	162@0	see graph	PASS
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@161	see graph	PASS
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	162@0	see graph	PASS
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	270@0	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@272	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	270@0	see graph	PASS

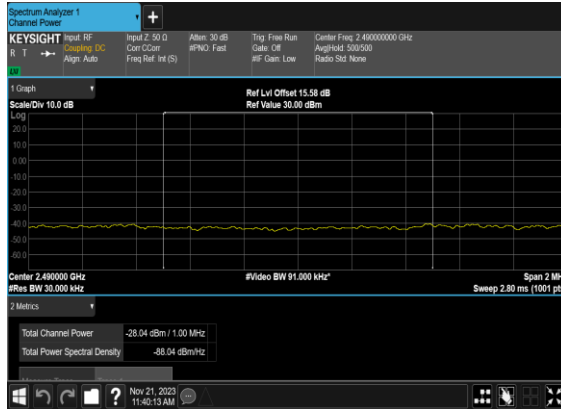
B4_N41(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



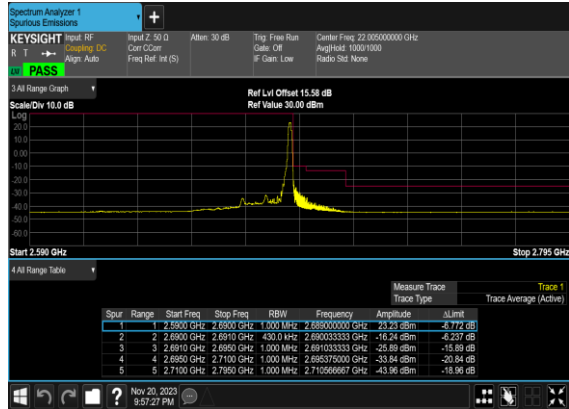
B4_N41(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



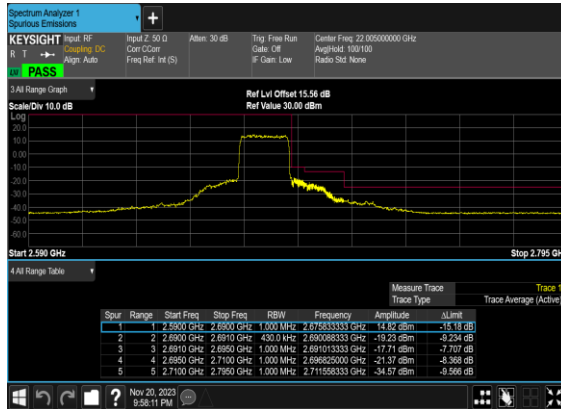
B4_N41(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH_chp_PASS



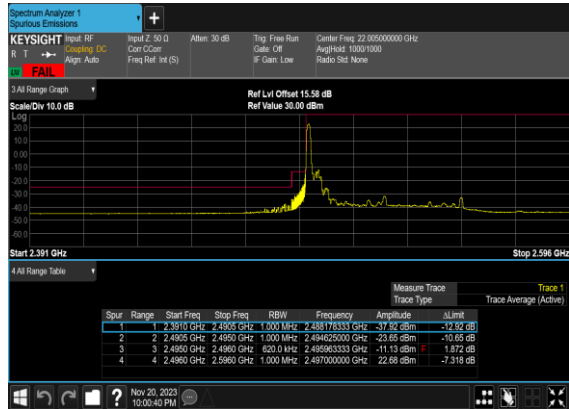
B4_N41(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



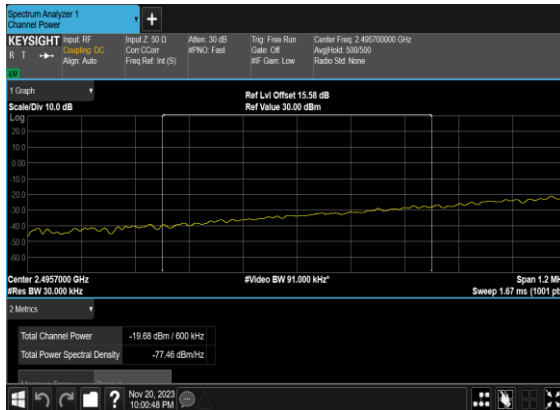
B4_N41(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



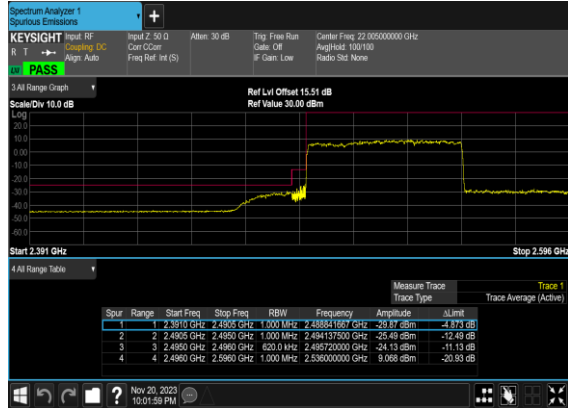
B4_N41(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



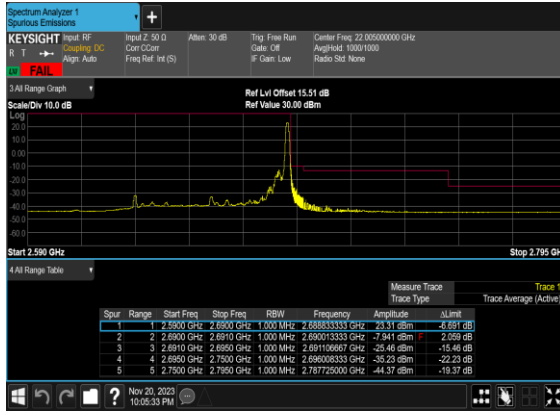
B4_N41(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_chp_PASS



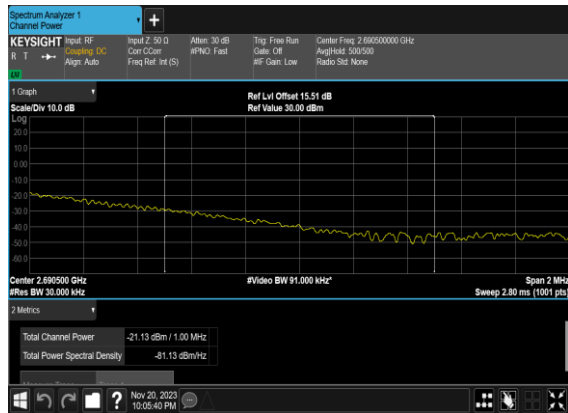
B4_N41(60M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



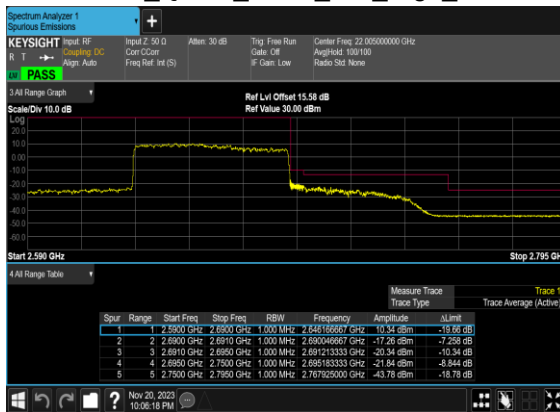
B4_N41(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



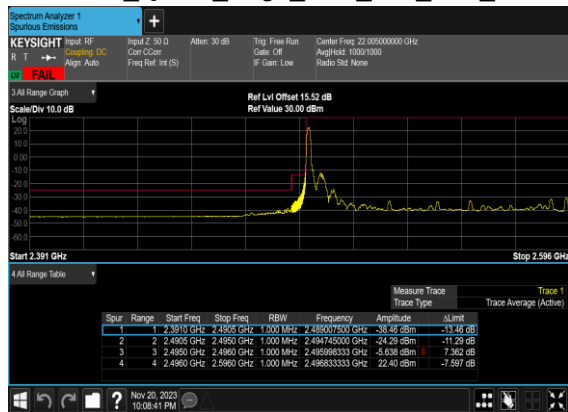
B4_N41(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH_chp_PASS



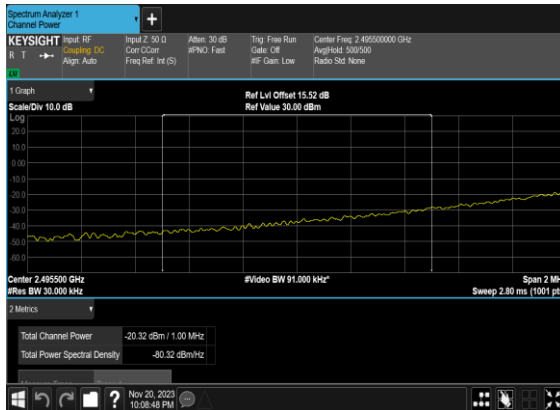
B4_N41(60M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



B4_N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



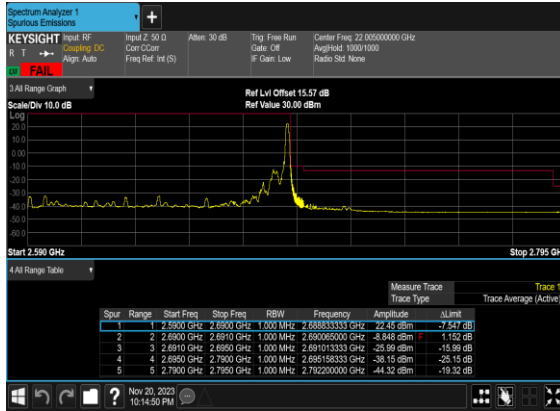
B4_N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_chp_PASS



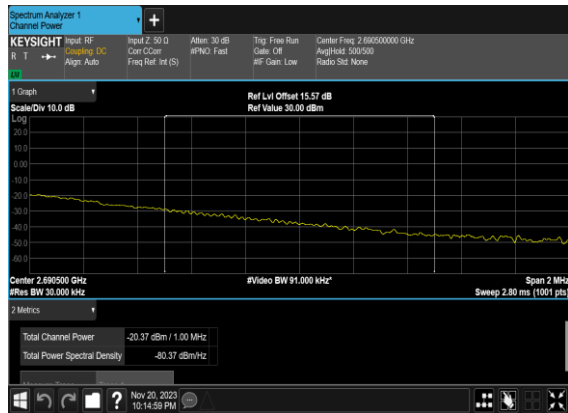
B4_N41(100M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



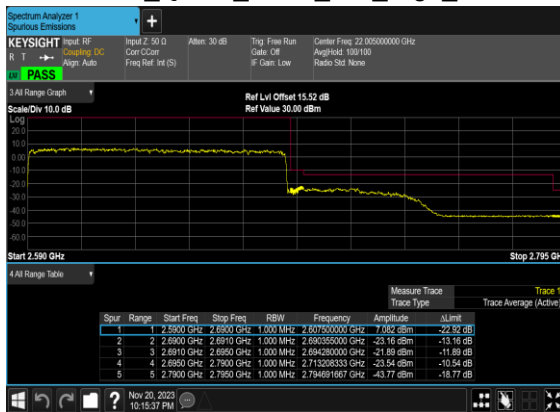
B4_N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



B4_N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH_chp_PASS



B4_N41(100M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



FR1 N66(ANT3)

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=-1.3dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@1	23.05	21.75	0.1496
66	15	5	342500	1712.5	DFT-s-OFDM 16 QAM	1@1	22.02	20.72	0.1180
66	15	5	349000	1745.0	DFT-s-OFDM QPSK	1@1	23.32	22.02	0.1592
66	15	5	349000	1745.0	DFT-s-OFDM 16 QAM	1@1	22.32	21.02	0.1265
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@1	23.04	21.74	0.1493
66	15	5	355500	1777.5	DFT-s-OFDM 16 QAM	1@1	22.05	20.75	0.1189
66	15	10	343000	1715.0	DFT-s-OFDM QPSK	1@1	22.94	21.64	0.1459
66	15	10	343000	1715.0	DFT-s-OFDM 16 QAM	1@1	21.97	20.67	0.1167
66	15	10	349000	1745.0	DFT-s-OFDM QPSK	1@1	23.14	21.84	0.1528
66	15	10	349000	1745.0	DFT-s-OFDM 16 QAM	1@1	22.15	20.85	0.1216
66	15	10	355000	1775.0	DFT-s-OFDM QPSK	1@1	22.85	21.55	0.1429
66	15	10	355000	1775.0	DFT-s-OFDM 16 QAM	1@1	21.89	20.59	0.1146
66	15	15	343500	1717.5	DFT-s-OFDM QPSK	1@1	23.04	21.74	0.1493
66	15	15	343500	1717.5	DFT-s-OFDM 16 QAM	1@1	22.1	20.8	0.1202
66	15	15	349000	1745.0	DFT-s-OFDM QPSK	1@1	23.17	21.87	0.1538
66	15	15	349000	1745.0	DFT-s-OFDM 16 QAM	1@1	22.27	20.97	0.1250
66	15	15	354500	1772.5	DFT-s-OFDM QPSK	1@1	23.07	21.77	0.1503
66	15	15	354500	1772.5	DFT-s-OFDM 16 QAM	1@1	22.09	20.79	0.1199
66	15	20	344000	1720.0	DFT-s-OFDM QPSK	1@1	23.07	21.77	0.1503
66	15	20	344000	1720.0	DFT-s-OFDM 16 QAM	1@1	22.11	20.81	0.1205
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	1@1	23.15	21.85	0.1531
66	15	20	349000	1745.0	DFT-s-OFDM 16 QAM	1@1	22.23	20.93	0.1239
66	15	20	354000	1770.0	DFT-s-OFDM QPSK	1@1	23.1	21.8	0.1514
66	15	20	354000	1770.0	DFT-s-OFDM 16 QAM	1@1	22.26	20.96	0.1247
66	15	30	345000	1725.0	DFT-s-OFDM QPSK	1@1	22.98	21.68	0.1472
66	15	30	345000	1725.0	DFT-s-OFDM 16 QAM	1@1	21.97	20.67	0.1167
66	15	30	349000	1745.0	DFT-s-OFDM QPSK	1@1	23.11	21.81	0.1517
66	15	30	349000	1745.0	DFT-s-OFDM 16 QAM	1@1	22.17	20.87	0.1222
66	15	30	353000	1765.0	DFT-s-OFDM QPSK	1@1	23.1	21.8	0.1514

66	15	30	353000	1765.0	DFT-s-OFDM 16 QAM	1@1	22.12	20.82	0.1208
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	108@54	23.59	22.29	0.1694
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	1@1	22.8	21.5	0.1413
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	1@214	23.05	21.75	0.1496
66	15	40	346000	1730.0	DFT-s-OFDM 16 QAM	108@54	22.52	21.22	0.1324
66	15	40	346000	1730.0	DFT-s-OFDM 16 QAM	1@1	21.82	20.52	0.1127
66	15	40	346000	1730.0	DFT-s-OFDM 16 QAM	1@214	22.07	20.77	0.1194
66	15	40	346000	1730.0	DFT-s-OFDM 64 QAM	108@54	20.98	19.68	0.0929
66	15	40	346000	1730.0	DFT-s-OFDM 64 QAM	1@1	20.38	19.08	0.0809
66	15	40	346000	1730.0	DFT-s-OFDM 64 QAM	1@214	20.64	19.34	0.0859
66	15	40	346000	1730.0	DFT-s-OFDM 256 QAM	108@54	19.13	17.83	0.0607
66	15	40	346000	1730.0	DFT-s-OFDM 256 QAM	1@1	18.47	17.17	0.0521
66	15	40	346000	1730.0	DFT-s-OFDM 256 QAM	1@214	18.83	17.53	0.0566
66	15	40	346000	1730.0	CP-OFDM QPSK	108@54	22.02	20.72	0.1180
66	15	40	346000	1730.0	CP-OFDM QPSK	1@1	21.21	19.91	0.0979
66	15	40	346000	1730.0	CP-OFDM QPSK	1@214	21.54	20.24	0.1057
66	15	40	349000	1745.0	DFT-s-OFDM QPSK	108@54	23.87	22.57	0.1807
66	15	40	349000	1745.0	DFT-s-OFDM QPSK	1@1	22.85	21.55	0.1429
66	15	40	349000	1745.0	DFT-s-OFDM QPSK	1@214	22.93	21.63	0.1455
66	15	40	349000	1745.0	DFT-s-OFDM 16 QAM	108@54	22.65	21.35	0.1365
66	15	40	349000	1745.0	DFT-s-OFDM 16 QAM	1@1	21.86	20.56	0.1138
66	15	40	349000	1745.0	DFT-s-OFDM 16 QAM	1@214	21.92	20.62	0.1153
66	15	40	349000	1745.0	DFT-s-OFDM 64 QAM	108@54	21.17	19.87	0.0971
66	15	40	349000	1745.0	DFT-s-OFDM 64 QAM	1@1	20.47	19.17	0.0826
66	15	40	349000	1745.0	DFT-s-OFDM 64 QAM	1@214	20.51	19.21	0.0834
66	15	40	349000	1745.0	DFT-s-OFDM 256 QAM	108@54	19.25	17.95	0.0624
66	15	40	349000	1745.0	DFT-s-OFDM 256 QAM	1@1	18.53	17.23	0.0528
66	15	40	349000	1745.0	DFT-s-OFDM 256 QAM	1@214	18.63	17.33	0.0541
66	15	40	349000	1745.0	CP-OFDM QPSK	108@54	22.11	20.81	0.1205
66	15	40	349000	1745.0	CP-OFDM QPSK	1@1	21.21	19.91	0.0979
66	15	40	349000	1745.0	CP-OFDM QPSK	1@214	21.34	20.04	0.1009
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	108@54	23.44	22.14	0.1637
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	1@1	23.05	21.75	0.1496
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	1@214	22.84	21.54	0.1426
66	15	40	352000	1760.0	DFT-s-OFDM 16 QAM	108@54	22.4	21.1	0.1288

66	15	40	352000	1760.0	DFT-s-OFDM 16 QAM	1@1	22.07	20.77	0.1194
66	15	40	352000	1760.0	DFT-s-OFDM 16 QAM	1@214	21.84	20.54	0.1132
66	15	40	352000	1760.0	DFT-s-OFDM 64 QAM	108@54	20.97	19.67	0.0927
66	15	40	352000	1760.0	DFT-s-OFDM 64 QAM	1@1	20.68	19.38	0.0867
66	15	40	352000	1760.0	DFT-s-OFDM 64 QAM	1@214	20.48	19.18	0.0828
66	15	40	352000	1760.0	DFT-s-OFDM 256 QAM	108@54	19.09	17.79	0.0601
66	15	40	352000	1760.0	DFT-s-OFDM 256 QAM	1@1	18.68	17.38	0.0547
66	15	40	352000	1760.0	DFT-s-OFDM 256 QAM	1@214	18.6	17.3	0.0537
66	15	40	352000	1760.0	CP-OFDM QPSK	108@54	21.87	20.57	0.1140
66	15	40	352000	1760.0	CP-OFDM QPSK	1@1	21.43	20.13	0.1030
66	15	40	352000	1760.0	CP-OFDM QPSK	1@214	21.33	20.03	0.1007

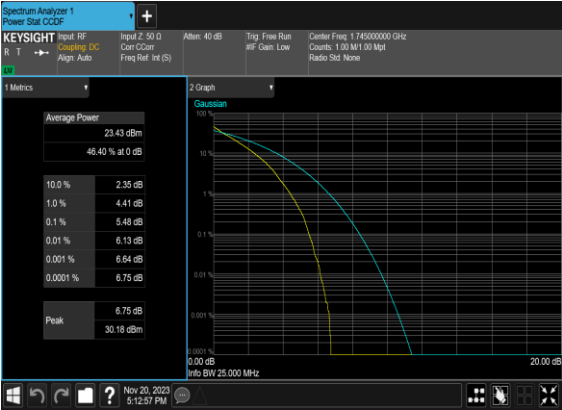
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0042	PASS	NV
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0069	PASS	LV
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0054	PASS	HV
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0050	PASS	-30°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0023	PASS	-20°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0055	PASS	-10°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0066	PASS	0°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0045	PASS	10°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0042	PASS	20°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0065	PASS	30°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0045	PASS	40°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0033	PASS	50°C

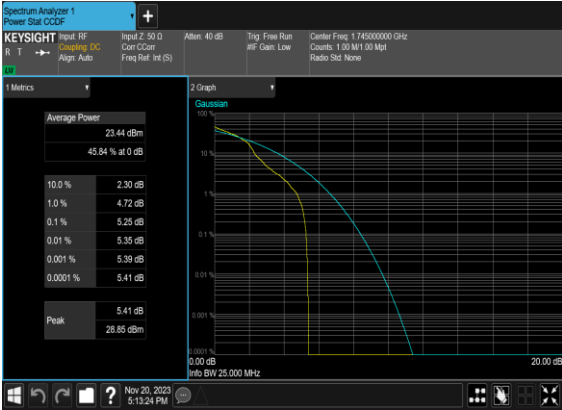
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	5.48	13	PASS
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	1@0	5.25	13	PASS

N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



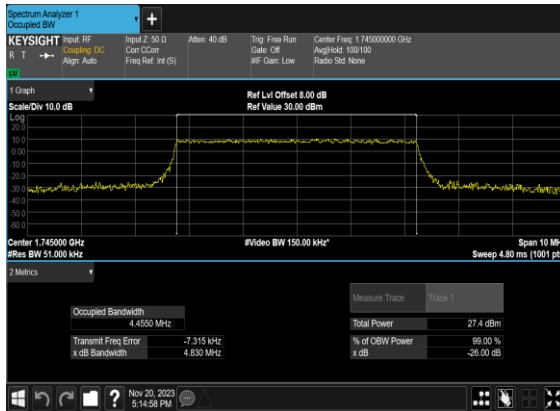
N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



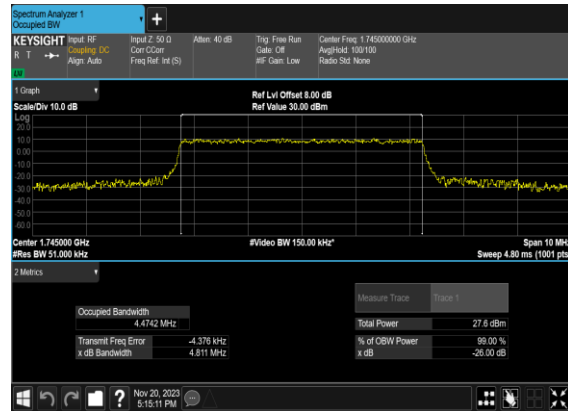
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
66	15	5	349000	1745.0	CP-OFDM QPSK	25@0	4.455	4.83
66	15	5	349000	1745.0	CP-OFDM 16 QAM	25@0	4.4742	4.811
66	15	5	349000	1745.0	CP-OFDM 64 QAM	25@0	4.4677	4.836
66	15	5	349000	1745.0	CP-OFDM 256 QAM	25@0	4.4633	4.737
66	15	10	349000	1745.0	CP-OFDM QPSK	52@0	9.2923	9.875
66	15	10	349000	1745.0	CP-OFDM 16 QAM	52@0	9.3045	9.783
66	15	10	349000	1745.0	CP-OFDM 64 QAM	52@0	9.2944	9.844
66	15	10	349000	1745.0	CP-OFDM 256 QAM	52@0	9.2617	9.78
66	15	15	349000	1745.0	CP-OFDM QPSK	79@0	14.107	14.79
66	15	15	349000	1745.0	CP-OFDM 16 QAM	79@0	14.136	14.73
66	15	15	349000	1745.0	CP-OFDM 64 QAM	79@0	14.091	14.71
66	15	15	349000	1745.0	CP-OFDM 256 QAM	79@0	14.073	14.69
66	15	20	349000	1745.0	CP-OFDM QPSK	106@0	18.872	19.79
66	15	20	349000	1745.0	CP-OFDM 16 QAM	106@0	18.944	19.92
66	15	20	349000	1745.0	CP-OFDM 64 QAM	106@0	18.903	19.81
66	15	20	349000	1745.0	CP-OFDM 256 QAM	106@0	18.924	19.8
66	15	30	349000	1745.0	CP-OFDM QPSK	160@0	28.592	29.68
66	15	30	349000	1745.0	CP-OFDM 16 QAM	160@0	28.542	29.65
66	15	30	349000	1745.0	CP-OFDM 64 QAM	160@0	28.577	29.54
66	15	30	349000	1745.0	CP-OFDM 256 QAM	160@0	28.532	29.65
66	15	40	349000	1745.0	CP-OFDM QPSK	216@0	38.529	39.89
66	15	40	349000	1745.0	CP-OFDM 16 QAM	216@0	38.52	39.96
66	15	40	349000	1745.0	CP-OFDM 64 QAM	216@0	38.535	40.13
66	15	40	349000	1745.0	CP-OFDM 256 QAM	216@0	38.464	39.97

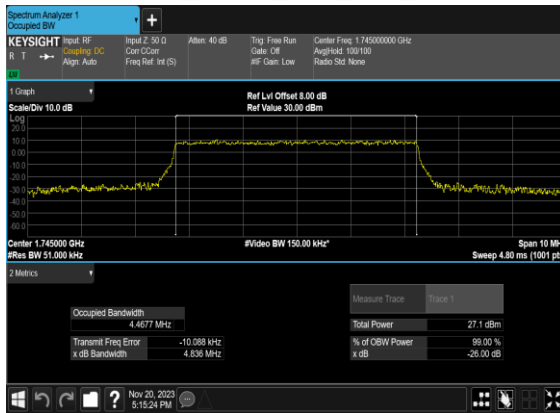
N66(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



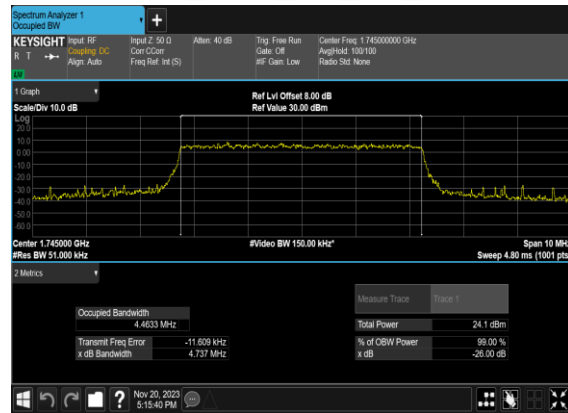
N66(5M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



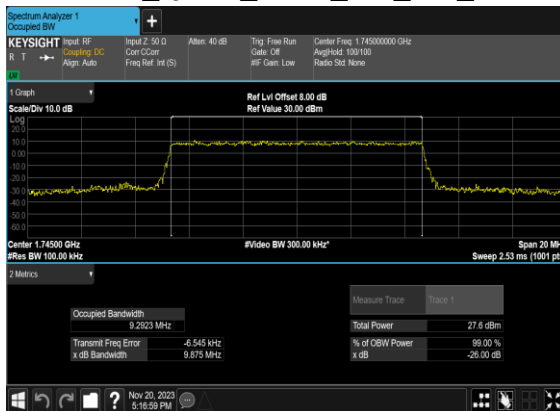
N66(5M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



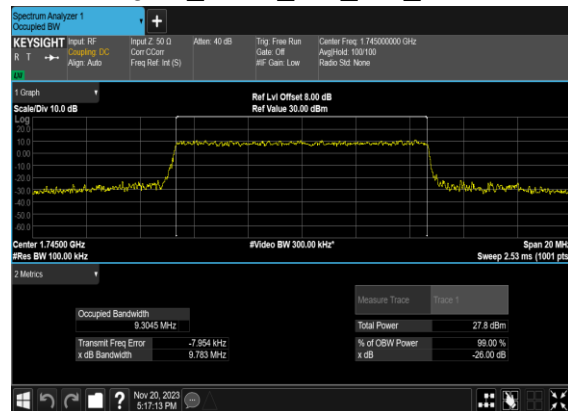
N66(5M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



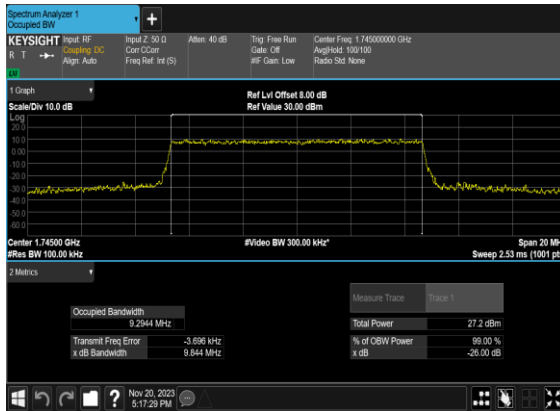
N66(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



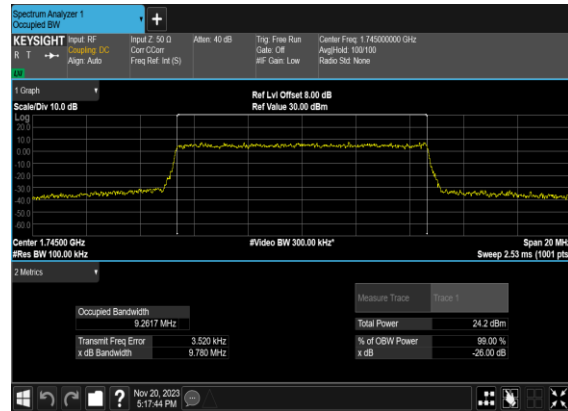
N66(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



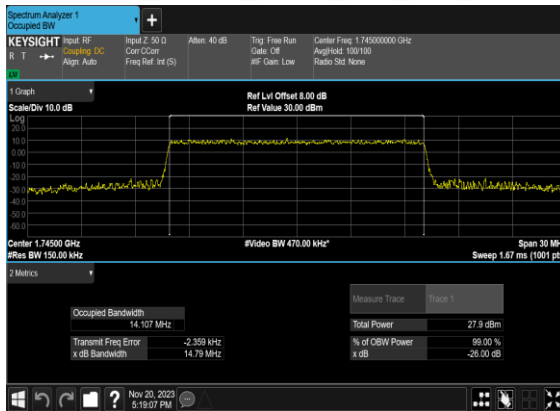
N66(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



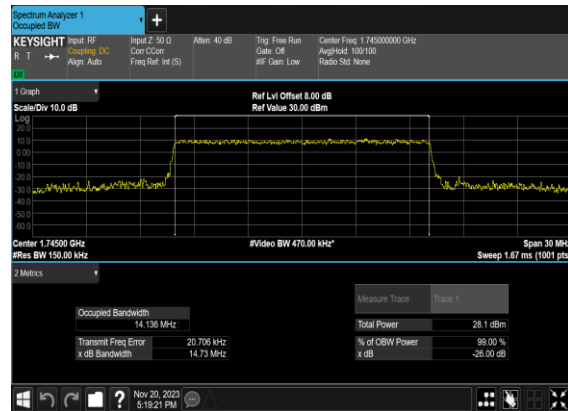
N66(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



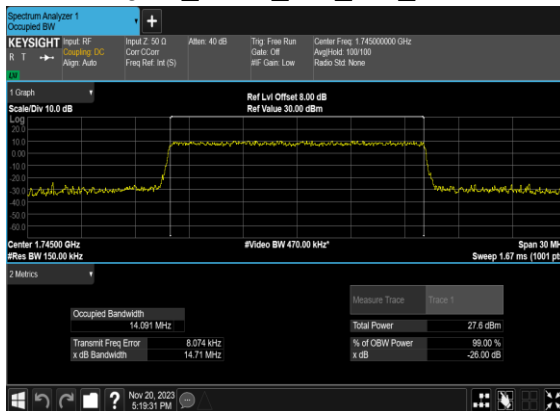
N66(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



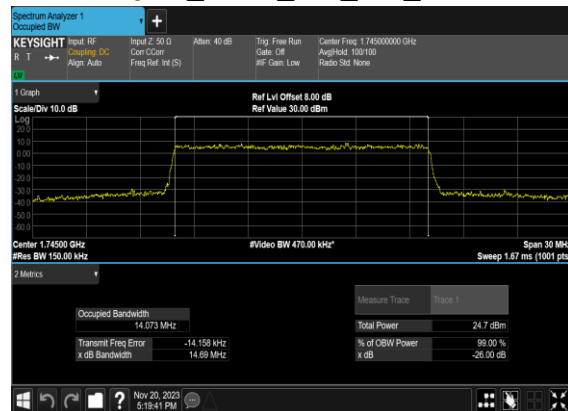
N66(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



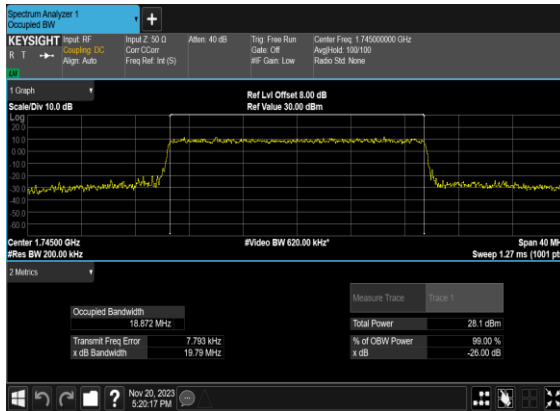
N66(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



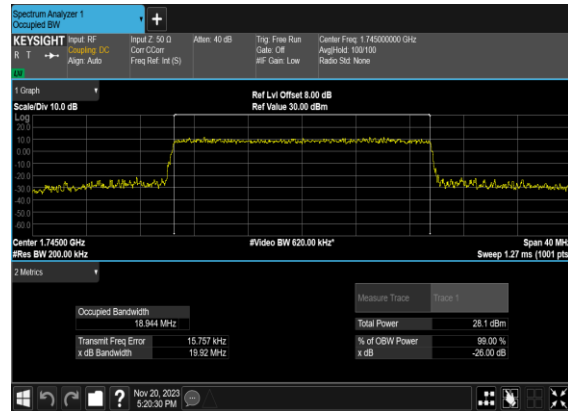
N66(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



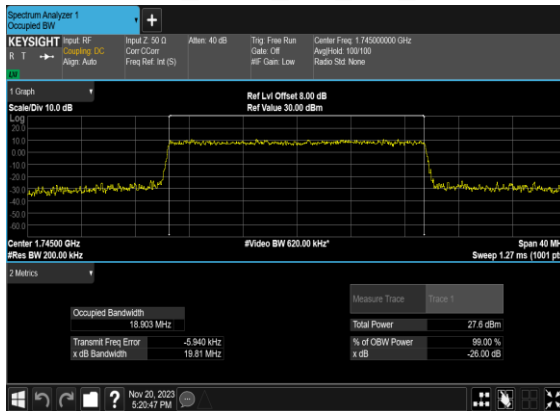
N66(20M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



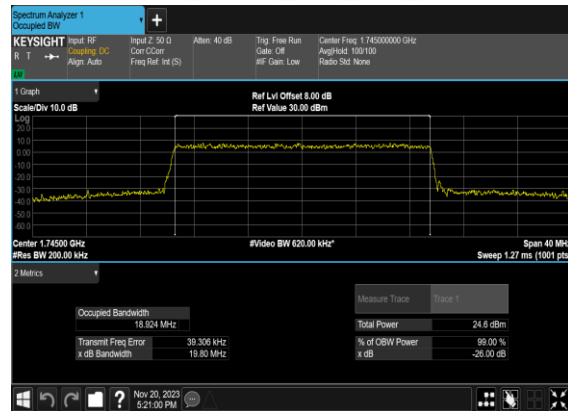
N66(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



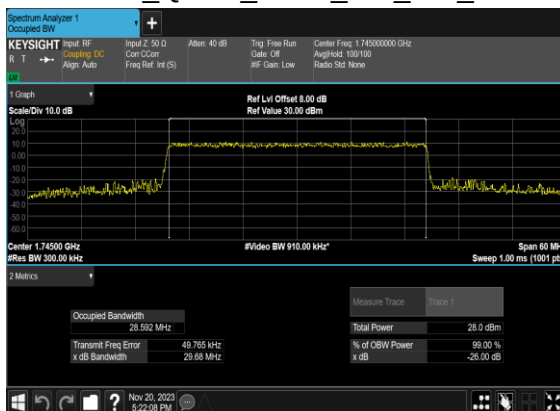
N66(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



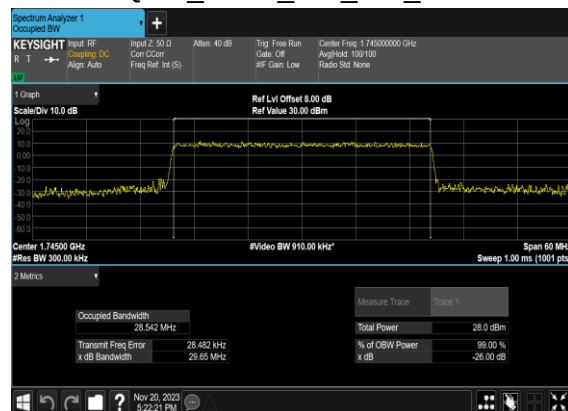
N66(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



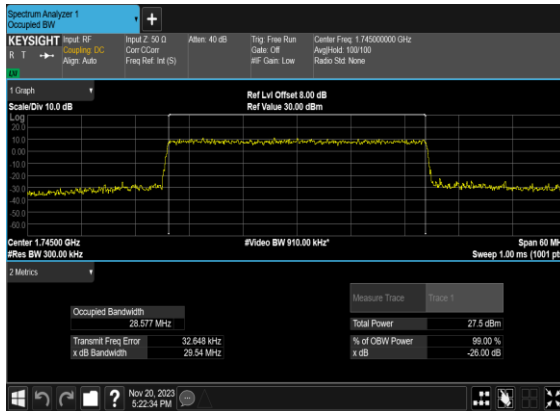
N66(30M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



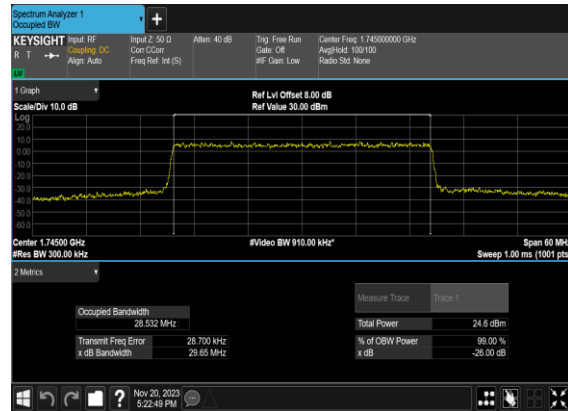
N66(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



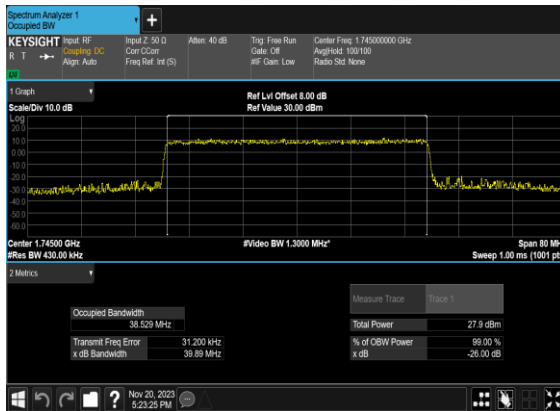
N66(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



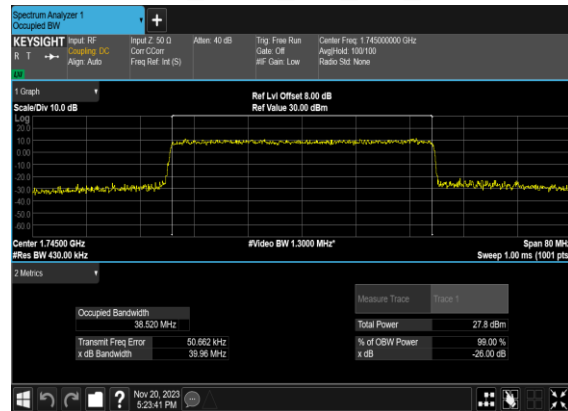
N66(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



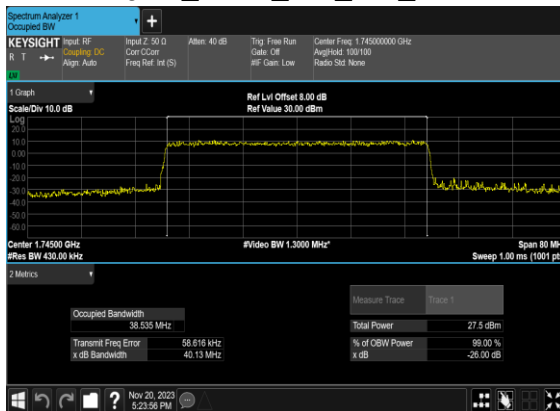
N66(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



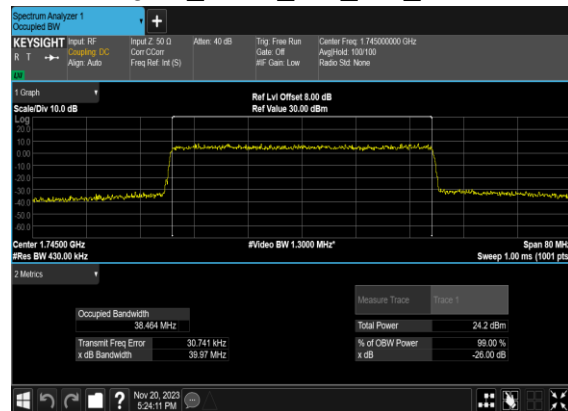
N66(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N66(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



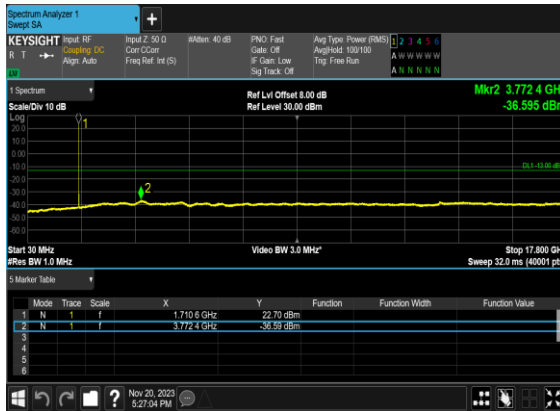
N66(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



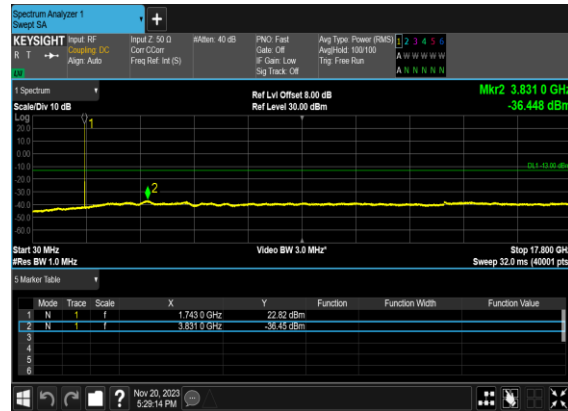
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	5	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	344000	1720.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	20	344000	1720.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	354000	1770.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	20	354000	1770.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	40	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

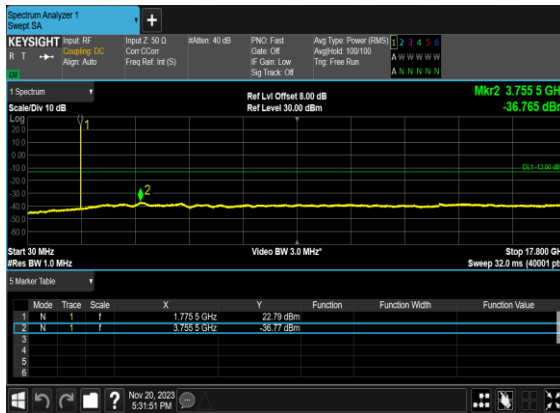
N66(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



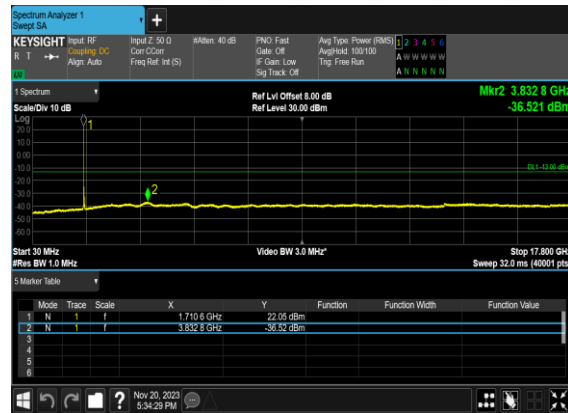
N66(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



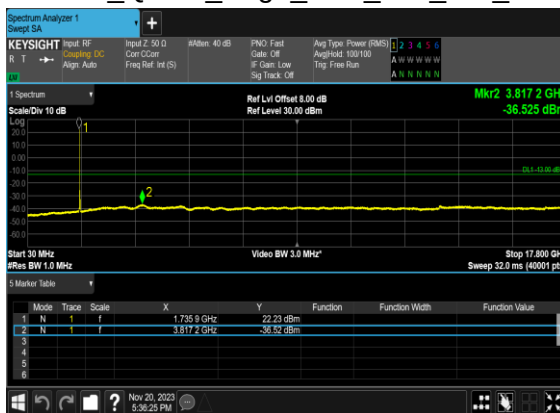
N66(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



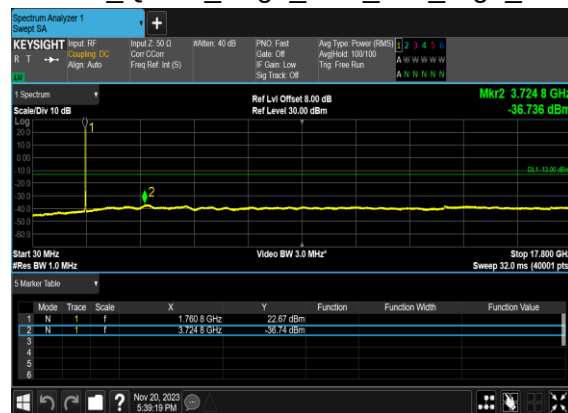
N66(20M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



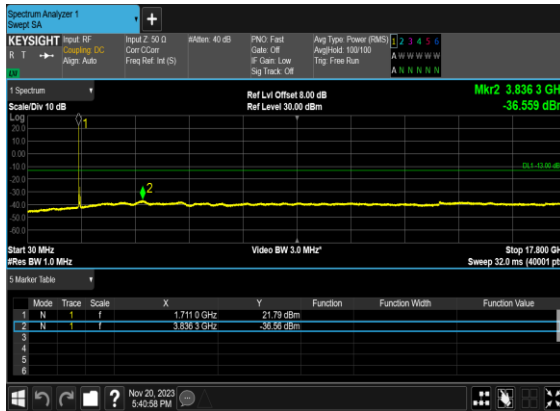
N66(20M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



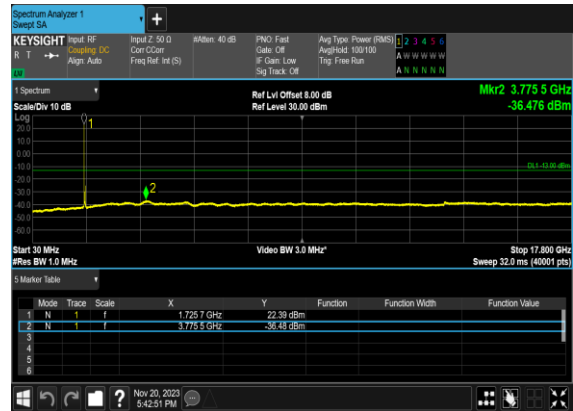
N66(20M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



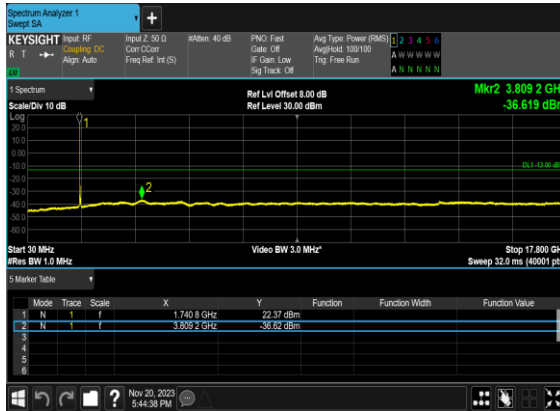
N66(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



N66(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N66(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



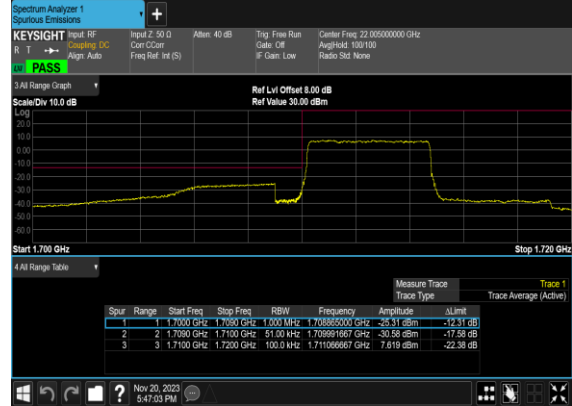
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	342500	1712.5	dDFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
66	15	20	344000	1720.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	344000	1720.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
66	15	20	354000	1770.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
66	15	20	354000	1770.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	216@0	see graph	PASS
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	1@215	see graph	PASS
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	216@0	see graph	PASS

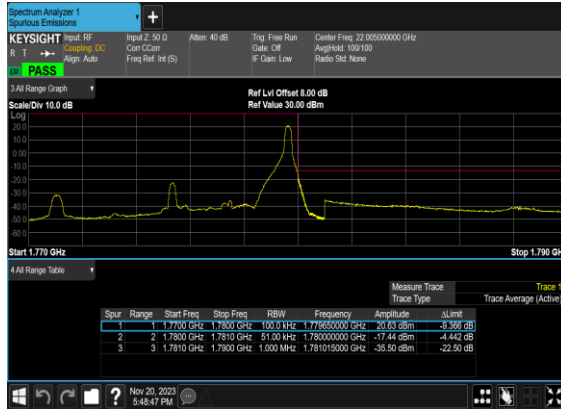
N66(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



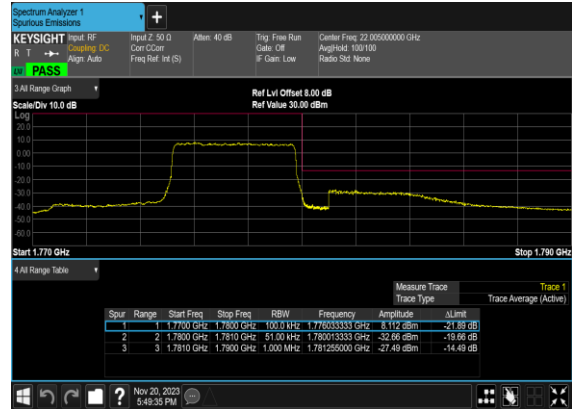
N66(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



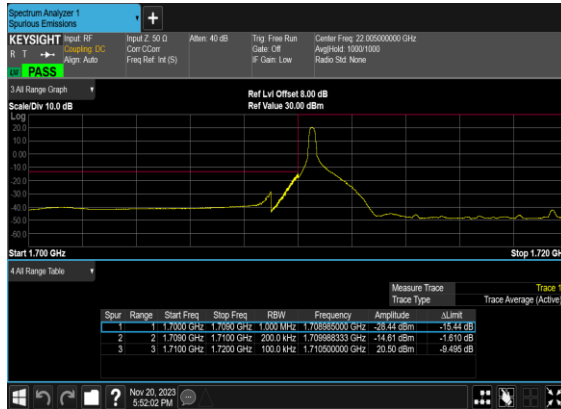
N66(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



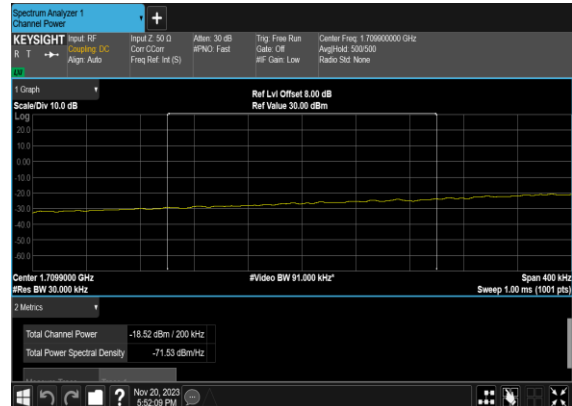
N66(5M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



N66(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



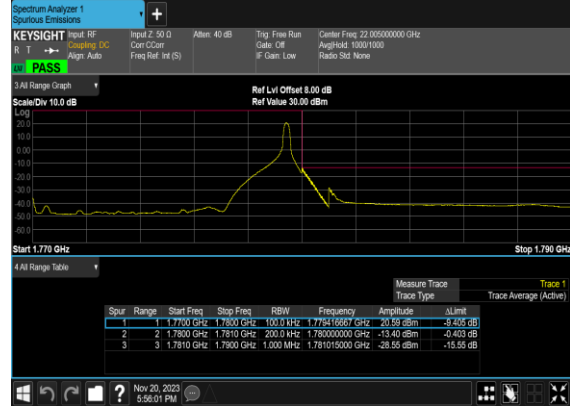
N66(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH_chp
_PASS



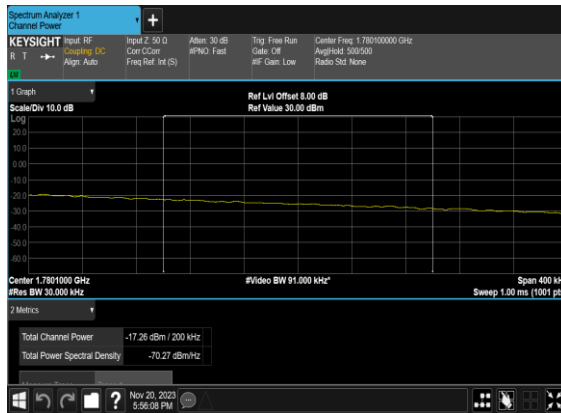
N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



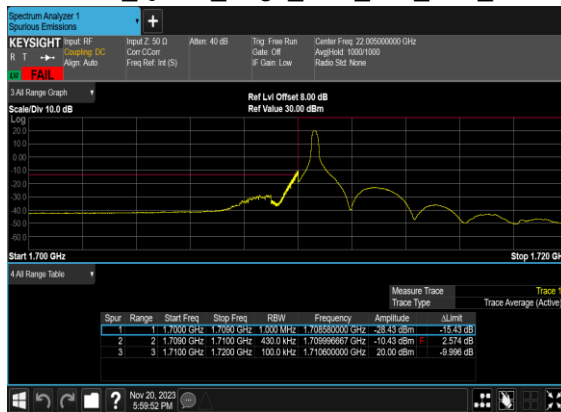
N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH_PASS



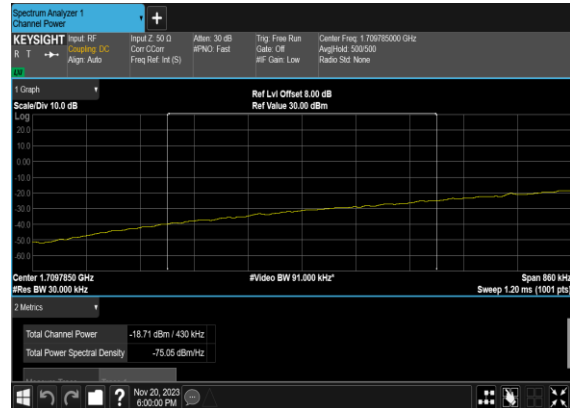
N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_PASS



Spectrum Analyzer 1
Spurious Emissions

KEYSIGHT Input: RF
R T $\rightarrow$ **Measuring DC**
Algo: Auto

10 PASS

3 All Range Graph

Scale/Div 10.0 dB

Log

Ref List Offset: 8.00 dB
Ref Value: 30.00 dBm

Start 1.700 GHz

Stop 1.720 GHz

4 All Range Table

Measure Trace
Trace Type

Trace Average (Active)

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	dBm
1	1	1.7000 GHz	1.7000 GHz	1.000 MHz	1.709810000 GHz	-33.90 dBm	-20.20 dB
2	2	1.7090 GHz	1.7100 GHz	430.0 kHz	1.709965000 GHz	-32.11 dBm	-18.11 dB
3	3	1.7100 GHz	1.7200 GHz	100.0 kHz	1.719816667 GHz	-1.772 dBm	-31.77 dB

Nov 20, 2023
6:00:50 PM

Spectrum Analyzer 1
Spurious Emissions

KEYSIGHT Input: RF
R T → **FAIL**
Align: Auto

Input 2: 50.0
Corr: CCW
Freq Ref: Int (S)

Att: 40.0 dB

Trig: Free Run
Gate: Off
IF Gain: Low

Center Freq: 22.05000000 GHz
AvgMode: 1000/1000
Radio Set: None

3 All Range Graph

Scale Freq: 10.0 dB

Ref Lvl Offset: 0.00 dB
Ref Value: 30.00 dBm

Start: 1.770 GHz

Stop: 1.790 GHz

4 All Range Table

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Unit
1	1	1.77001 GHz	1.79000 GHz	100.0 kHz	1.79015560 GHz	-20.31 dBm	-3.881 dB
2	2	1.78000 GHz	1.78100 GHz	1.000 MHz	1.78006667 GHz	-11.61 dBm	-1.365 dB
3	3	1.78100 GHz	1.79000 GHz	1.000 MHz	1.781135000 GHz	-29.73 dBm	-16.73 dB

Measure Trace
Trace Type
Trace Average (Active)

Spectrum Analyzer 1
Channel Power

KEYSIGHT Input: RF Coupling: DC Algs: Auto

Input Z: 50.0 Ohm
Corr: CCR
Freq Ref: Int (S)

Att: 30 dB
#PNO: Fast

Trig: Free Run
Gate: Off
RF Gain: Low

Center Freq: 1.780215000 GHz
Agt: Hds 500/500
Radio Std: None

1 Graph
Scale/Div: 10.0 dB
Log
Ref Lvl Offset: 8.00 dB
Ref Value: 30.00 dBm

Center: 1.7802150 GHz
#Res BW: 30.000 kHz
#Video BW: 91.000 kHz
Span: 860 kHz
Sweep: 1.20 ms (1001 pt)

2 Metrics

Total Channel Power	-19.23 dBm / 430 kHz
Total Power Spectral Density	-75.57 dBm/Hz

Nov 20, 2023
6:03:44 PM

Spectrum Analyzer 1
Spurious Emissions

KEYSIGHT Input RF: **Channel B/C**
R T $\leftrightarrow$ **Align** **Auto**
Unit **PASS**

Input Z: 50 Ω Att: 40 dB Trig Freq Run
Corr: CCAT Gate: Off F: Scan: Low
Center Freq: 22.005000000 GHz
Avg: 400 100
Basis Set: None

3 All Range Graph

Scale/Div 10.0 dB
Log
0.00
10.00
20.00
30.00
40.00
50.00
60.00
70.00
80.00
90.00
100.00

Ref Lvl Offset 8.00 dB
Ref Value 30.00 dBm

Start 1.770 GHz Stop 1.790 GHz

4 All Range Table

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Unit
1	1	1.7700 GHz	1.7800 GHz	100.00 kHz	1.77510667 GHz	-1.498 dBm	-31.50 dB
2	2	1.7800 GHz	1.7810 GHz	430.0 kHz	1.780013333 GHz	-28.52 dBm	-15.52 dB
3	3	1.7810 GHz	1.7900 GHz	1.000 MHz	1.786310000 GHz	-32.41 dBm	-19.41 dB

Measure Trace Trace Type Trace Average (Active)



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Wenbo Xiao	Temperature :	22~25°C
		Relative Humidity :	48~52%

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

SA n2 / NR 20MHz(ANT3) / QPSK									
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	-56.29	-13	-43.29	-79.33	-63.04	5.85	12.60	H
	5612.25	-55.85	-13	-42.85	-80.43	-61.65	7.30	13.10	H
	7483	-53.53	-13	-40.53	-80.61	-56.68	8.35	11.50	H
	3741.5	-53.46	-13	-40.46	-78.51	-60.21	5.85	12.60	V
	5612.25	-55.03	-13	-42.03	-80.46	-60.83	7.30	13.10	V
	7483	-53.84	-13	-40.84	-80.9	-56.99	8.35	11.50	V

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

SA n7 / NR 40MHz(ANT3) / QPSK									
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	5033.00	-60.51	-25	-35.51	-79.88	-66.07	7.14	12.70	H
	7549.50	-55.01	-25	-30.01	-79.81	-58.31	8.30	11.60	H
	10066.00	-51.53	-25	-26.53	-79.95	-53.05	10.48	12.00	H
	5033.00	-60.71	-25	-35.71	-80.01	-66.27	7.14	12.70	V
	7549.50	-54.21	-25	-29.21	-79.46	-57.51	8.30	11.60	V
	10066.00	-53.06	-25	-28.06	-80.08	-54.58	10.48	12.00	V

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

EN-DC_2A_n7A / LTE 40MHz + NR 40MHz / QPSK (ANT3+4)									
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 n7 Middle	5033.00	-60.08	-25	-35.08	-79.45	-65.64	7.14	12.70	H
	7549.50	-55.14	-25	-30.14	-79.94	-58.44	8.30	11.60	H
	10066.00	-51.46	-25	-26.46	-79.88	-52.98	10.48	12.00	H
	5033.00	-60.48	-25	-35.48	-79.78	-66.04	7.14	12.70	V
	7549.50	-54.35	-25	-29.35	-79.6	-57.65	8.30	11.60	V
	10066.00	-53.04	-25	-28.04	-80.06	-54.56	10.48	12.00	V
LTE Band2 Middle	3751.18	-62.05	-13	-49.05	-77.80	-68.80	5.85	12.60	H
	5626.77	-40.93	-13	-27.93	-60.05	-46.73	7.30	13.10	H
	7502	-55.13	-13	-42.13	-80.00	-58.28	8.35	11.50	H
	3751.18	-63.33	-13	-50.33	-78.67	-70.08	5.85	12.60	V
	5626.77	-48.57	-13	-35.57	-66.82	-54.37	7.30	13.10	V
	7502	-54.54	-13	-41.54	-79.82	-57.69	8.35	11.50	V

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

SA n26 / NR 20MHz(ANT1) / QPSK									
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	-63.29	-13	-50.29	-75.42	-66.54	4.00	9.40	H
	2481	-57.84	-13	-44.84	-77.09	-61.41	4.88	10.60	H
	3308	-56.65	-13	-43.65	-77.80	-61.58	5.52	12.60	H
	1654	-62.93	-13	-49.93	-75.70	-66.18	4.00	9.40	V
	2481	-57.54	-13	-44.54	-77.11	-61.11	4.88	10.60	V
	3308	-55.74	-13	-42.74	-77.59	-60.67	5.52	12.60	V

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

EN-DC_7A_n5A / LTE 20MHz + NR 20MHz / QPSK (ANT3+1)									
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	-66.66	-13	-53.66	-74.30	-69.91	4.00	9.40	H
	2481.75	-51.93	-13	-38.93	-63.37	-55.50	4.88	10.60	H
	3309	-63.22	-13	-50.22	-77.44	-68.15	5.52	12.60	H
	1654.5	-66.46	-13	-53.46	-74.18	-69.71	4.00	9.40	V
	2481.75	-50.22	-13	-37.22	-61.72	-53.79	4.88	10.60	V
	3309	-63.62	-13	-50.62	-77.78	-68.55	5.52	12.60	V
LTE Band7 Middle	5061.18	-60.61	-25	-35.61	-79.96	-66.17	7.14	12.70	H
	7591.77	-51.25	-25	-26.25	-75.98	-54.55	8.30	11.60	H
	10122.36	-51.14	-25	-26.14	-79.57	-52.66	10.48	12.00	H
	5061.18	-60.59	-25	-35.59	-79.81	-66.15	7.14	12.70	V
	7591.77	-48.23	-25	-23.23	-73.46	-51.53	8.30	11.60	V
	10122.36	-52.71	-25	-27.71	-79.83	-54.23	10.48	12.00	V

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

SA n41 / NR 100MHz(ANT3) / QPSK									
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	5089.00	-60.62	-25	-35.62	-79.94	-66.18	7.14	12.70	H
	7633.50	-55.24	-25	-30.24	-79.90	-58.54	8.30	11.60	H
	10178.00	-51.15	-25	-26.15	-79.61	-52.67	10.48	12.00	H
	5089.00	-60.81	-25	-35.81	-79.96	-66.37	7.14	12.70	V
	7633.50	-54.43	-25	-29.43	-79.62	-57.73	8.30	11.60	V
	10178.00	-52.60	-25	-27.60	-79.83	-54.12	10.48	12.00	V

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

EN-DC_66A_n41A / LTE 20MHz + NR 100MHz / QPSK (ANT4+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 n41 Middle	5089.00	-60.02	-25	-35.02	-79.34	-65.58	7.14	12.70	H
	7633.50	-54.83	-25	-29.83	-79.49	-58.13	8.30	11.60	H
	10178.00	-51.18	-25	-26.18	-79.64	-52.70	10.48	12.00	H
	5089.00	-60.47	-25	-35.47	-79.62	-66.03	7.14	12.70	V
	7633.50	-54.29	-25	-29.29	-79.48	-57.59	8.30	11.60	V
	10178.00	-52.35	-25	-27.35	-79.58	-53.87	10.48	12.00	V
LTE Band66 Middle	3492	-63.12	-13	-50.12	-77.67	-69.97	5.65	12.50	H
	5238	-61.18	-13	-48.18	-79.97	-66.85	7.13	12.80	H
	6984	-56.28	-13	-43.28	-79.37	-59.68	8.40	11.80	H
	3492	-62.98	-13	-49.98	-77.57	-69.83	5.65	12.50	V
	5238	-61.54	-13	-48.54	-79.9	-67.21	7.13	12.80	V
	6984	-56.15	-13	-43.15	-79.44	-59.55	8.40	11.80	V

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

SA n66 / NR 40MHz(ANT3) / QPSK									
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	3451.6	-55.08	-13	-42.08	-69.41	-61.93	5.65	12.50	H
	5177.4	-61.27	-13	-48.27	-80.51	-66.94	7.13	12.80	H
	6903.2	-56.82	-13	-43.82	-79.72	-60.22	8.40	11.80	H
	3451.6	-59.80	-13	-46.80	-74.15	-66.65	5.65	12.50	V
	5177.4	-61.22	-13	-48.22	-80.12	-66.89	7.13	12.80	V
	6903.2	-56.67	-13	-43.67	-79.9	-60.07	8.40	11.80	V

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



EN-DC_7A_n66A / LTE 20MHz + NR 40MHz / QPSK (ANT4+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 n66 Middle	3451.6	-63.98	-13	-50.98	-78.31	-70.83	5.65	12.50	H
	5177.4	-61.73	-13	-48.73	-80.97	-67.40	7.13	12.80	H
	6903.2	-56.97	-13	-43.97	-79.87	-60.37	8.40	11.80	H
	3451.6	-63.88	-13	-50.88	-78.23	-70.73	5.65	12.50	V
	5177.4	-62.13	-13	-49.13	-81.03	-67.80	7.13	12.80	V
	6903.2	-56.65	-13	-43.65	-79.88	-60.05	8.40	11.80	V
LTE Band7 Middle	5061.18	-60.00	-25	-35.00	-79.35	-65.56	7.14	12.70	H
	7591.77	-54.88	-25	-29.88	-79.61	-58.18	8.30	11.60	H
	10122.36	-51.37	-25	-26.37	-79.80	-52.89	10.48	12.00	H
	5061.18	-60.33	-25	-35.33	-79.55	-65.89	7.14	12.70	V
	7591.77	-54.52	-25	-29.52	-79.75	-57.82	8.30	11.60	V
	10122.36	-52.61	-25	-27.61	-79.73	-54.13	10.48	12.00	V

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