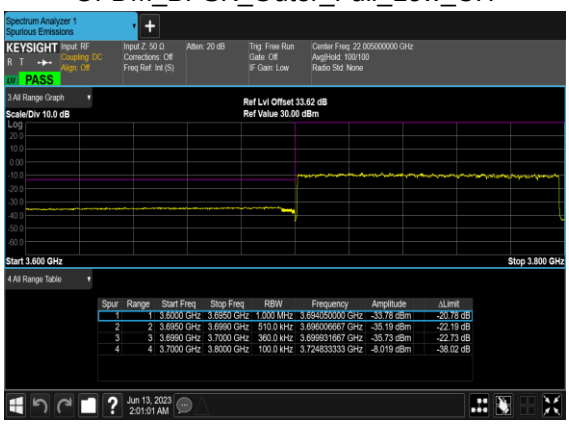
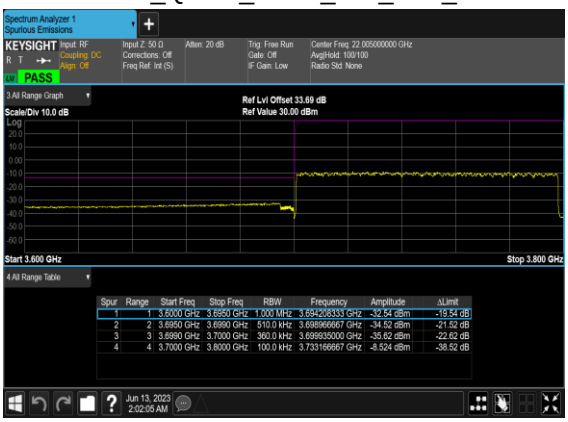
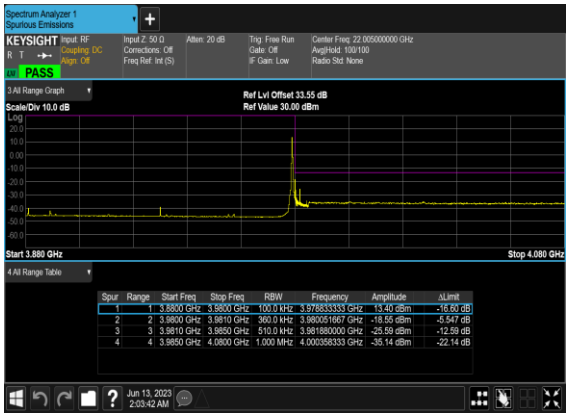
N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



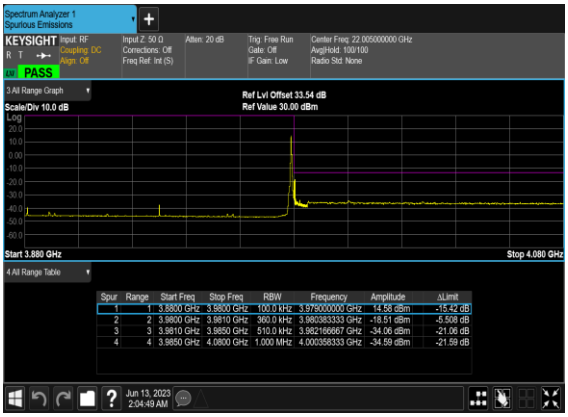
N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



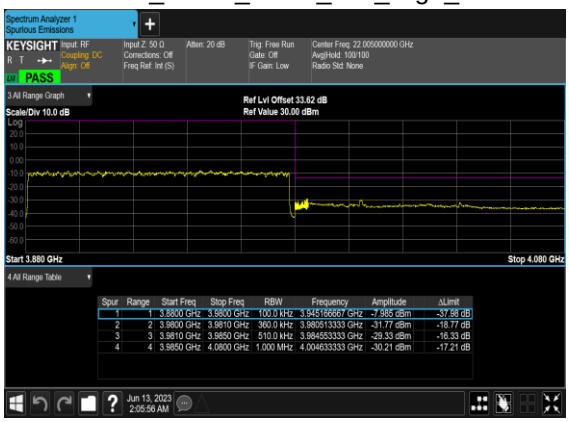
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



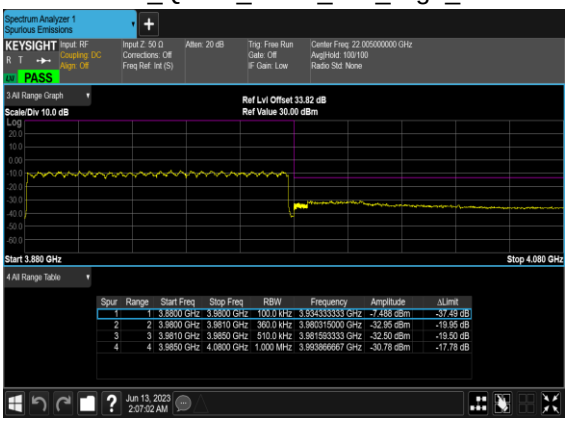
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



Software Version: 23.04.1201

FR1 N78(ANT5)

Conducted Output Power and EIRP (gain=-0.67dBi)

NR Band	SCS	Band Width	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	24.14	23.47	0.2223
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	23.96	23.29	0.2133
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	23.79	23.12	0.2051
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	24.02	23.35	0.2163
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	23.93	23.26	0.2118
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	23.8	23.13	0.2056
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	24.04	23.37	0.2173
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.83	23.16	0.2070
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	23.44	22.77	0.1892
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	23.61	22.94	0.1968
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	22.61	21.94	0.1563
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	23.16	22.49	0.1774
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	21.5	20.83	0.1211
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.15	20.48	0.1117
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	20.86	20.19	0.1045
78	30	100	650000	3750	CP-OFDM QPSK	137@68	23.83	23.16	0.2070
78	30	100	650000	3750	CP-OFDM QPSK	1@1	23.77	23.1	0.2042
78	30	100	650000	3750	CP-OFDM QPSK	1@271	23.58	22.91	0.1954
78	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	23.71	23.04	0.2014
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	23.8	23.13	0.2056
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	23.76	23.09	0.2037
78	30	20	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	23.86	23.19	0.2084
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@1	23.95	23.28	0.2128
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.82	23.15	0.2065
78	30	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	1@1	23.96	23.29	0.2133
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	24	23.33	0.2153
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	23.87	23.2	0.2089
78	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	23.72	23.05	0.2018

78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	23.83	23.16	0.2070
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	23.65	22.98	0.1986
78	30	30	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	23.85	23.18	0.2080
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@1	23.94	23.27	0.2123
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.77	23.1	0.2042
78	30	30	652332	3784.98	DFT-s-OFDM PI/2 BPSK	1@1	23.91	23.24	0.2109
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@1	24	23.33	0.2153
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@1	23.81	23.14	0.2061
78	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	23.74	23.07	0.2028
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	23.77	23.1	0.2042
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	23.67	23	0.1995
78	30	40	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	23.82	23.15	0.2065
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@1	23.9	23.23	0.2104
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.76	23.09	0.2037
78	30	40	652000	3780	DFT-s-OFDM PI/2 BPSK	1@1	23.98	23.31	0.2143
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@1	23.97	23.3	0.2138
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	23.87	23.2	0.2089
78	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	23.77	23.1	0.2042
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	23.84	23.17	0.2075
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	23.71	23.04	0.2014
78	30	50	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	23.77	23.1	0.2042
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@1	23.82	23.15	0.2065
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.76	23.09	0.2037
78	30	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	1@1	23.88	23.21	0.2094
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	23.95	23.28	0.2128
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	23.85	23.18	0.2080
78	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	23.74	23.07	0.2028
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	23.78	23.11	0.2046
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	23.75	23.08	0.2032
78	30	60	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	23.69	23.02	0.2004
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@1	23.75	23.08	0.2032
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.71	23.04	0.2014
78	30	60	651332	3769.98	DFT-s-OFDM PI/2 BPSK	1@1	23.82	23.15	0.2065
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@1	23.91	23.24	0.2109

78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@1	23.81	23.14	0.2061
78	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@1	23.71	23.04	0.2014
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	23.73	23.06	0.2023
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	23.71	23.04	0.2014
78	30	80	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	23.64	22.97	0.1982
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@1	23.69	23.02	0.2004
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.67	23	0.1995
78	30	80	650666	3759.99	DFT-s-OFDM PI/2 BPSK	1@1	23.66	22.99	0.1991
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@1	23.69	23.02	0.2004
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@1	23.67	23	0.1995
78	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	23.72	23.05	0.2018
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	23.77	23.1	0.2042
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	23.66	22.99	0.1991
78	30	90	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	23.57	22.9	0.1950
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@1	23.67	23	0.1995
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.63	22.96	0.1977
78	30	90	650332	3754.98	DFT-s-OFDM PI/2 BPSK	1@1	23.7	23.03	0.2009
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@1	23.68	23.01	0.2000
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@1	23.59	22.92	0.1959

Frequency Stability

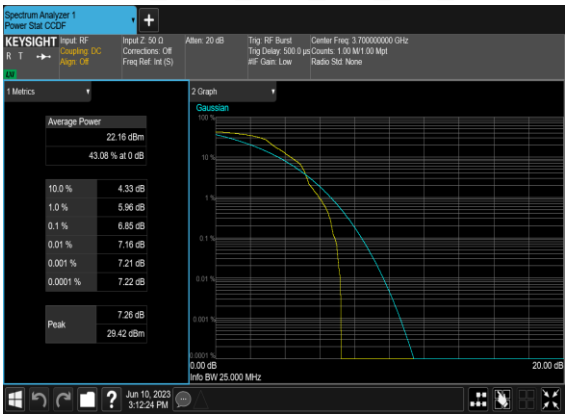
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	24@0	0.0025	**PASS**	NV
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	24@0	0.0012	**PASS**	LV
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	24@0	0.0018	**PASS**	HV
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	24@0	-0.0019	**PASS**	-30℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	24@0	0.0016	**PASS**	-20℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	24@0	0.0011	**PASS**	-10℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	24@0	-0.0015	**PASS**	0℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	24@0	0.0013	**PASS**	10℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	24@0	0.0024	**PASS**	20℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	24@0	0.0025	**PASS**	30℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	24@0	-0.0032	**PASS**	40℃
78	30	20	650000	3750.0	DFT-s-OFDM QPSK	24@0	0.0009	**PASS**	50℃

Peak to Average Ratio

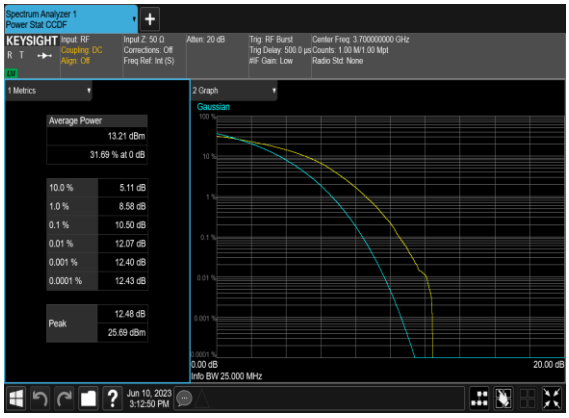
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	30	100	650000	3750.0	DFT-s-OFDM PI/2 BPSK	270@0	10.03	13	**PASS**
78	30	100	650000	3750.0	DFT-s-OFDM PI/2 BPSK	1@0	6.85	13	**PASS**
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	270@0	10.5	13	**PASS**
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	7.3	13	**PASS**

N78(100M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

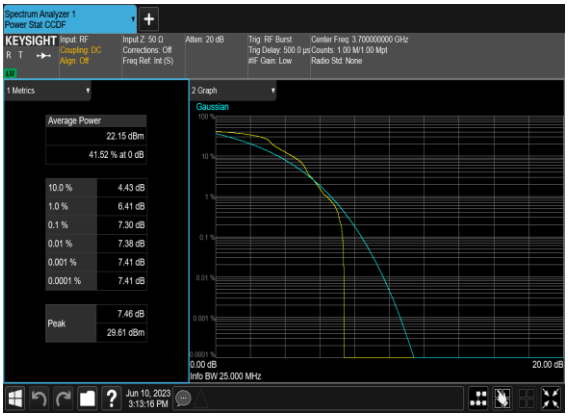
N78(100M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

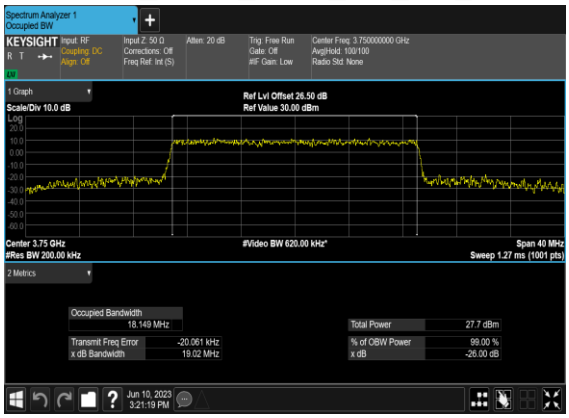


Occupied Bandwidth

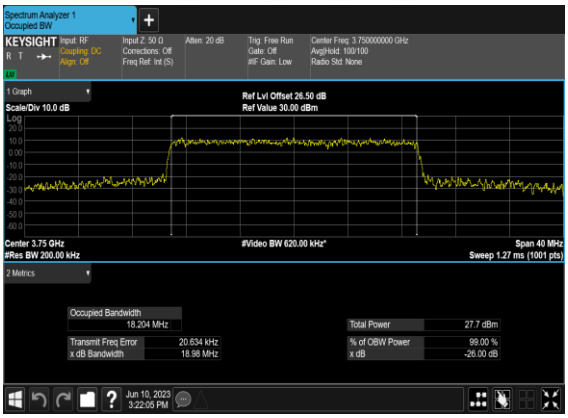
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
78	30	20	650000	3750.0	CP-OFDM QPSK	51@0	18.149	19.02
78	30	20	650000	3750.0	CP-OFDM 16 QAM	51@0	18.204	18.98
78	30	20	650000	3750.0	CP-OFDM 64 QAM	51@0	18.192	19.03
78	30	20	650000	3750.0	CP-OFDM 256 QAM	51@0	18.182	18.98
78	30	30	650000	3750.0	CP-OFDM QPSK	78@0	27.778	28.81
78	30	30	650000	3750.0	CP-OFDM 16 QAM	78@0	27.848	28.91
78	30	30	650000	3750.0	CP-OFDM 64 QAM	78@0	27.848	28.83
78	30	30	650000	3750.0	CP-OFDM 256 QAM	78@0	27.763	28.77
78	30	40	650000	3750.0	CP-OFDM QPSK	106@0	37.86	39.22
78	30	40	650000	3750.0	CP-OFDM 16 QAM	106@0	37.836	39.25
78	30	40	650000	3750.0	CP-OFDM 64 QAM	106@0	37.744	39.14
78	30	40	650000	3750.0	CP-OFDM 256 QAM	106@0	37.819	39.41
78	30	50	650000	3750.0	CP-OFDM QPSK	133@0	47.502	49.05
78	30	50	650000	3750.0	CP-OFDM 16 QAM	133@0	47.379	48.99
78	30	50	650000	3750.0	CP-OFDM 64 QAM	133@0	47.558	49.16
78	30	50	650000	3750.0	CP-OFDM 256 QAM	133@0	47.439	49.15
78	30	60	650000	3750.0	CP-OFDM QPSK	162@0	57.868	59.75
78	30	60	650000	3750.0	CP-OFDM 16 QAM	162@0	57.854	59.48
78	30	60	650000	3750.0	CP-OFDM 64 QAM	162@0	57.874	59.69
78	30	60	650000	3750.0	CP-OFDM 256 QAM	162@0	57.937	59.67
78	30	80	650000	3750.0	CP-OFDM QPSK	217@0	77.508	79.97
78	30	80	650000	3750.0	CP-OFDM 16 QAM	217@0	77.533	79.85
78	30	80	650000	3750.0	CP-OFDM 64 QAM	217@0	77.583	79.91
78	30	80	650000	3750.0	CP-OFDM 256 QAM	217@0	77.556	80.0
78	30	90	650000	3750.0	CP-OFDM QPSK	245@0	87.449	90.17
78	30	90	650000	3750.0	CP-OFDM 16 QAM	245@0	87.548	90.13

78	30	90	650000	3750.0	CP-OFDM 64 QAM	245@0	87.436	90.31
78	30	90	650000	3750.0	CP-OFDM 256 QAM	245@0	87.554	90.09
78	30	100	650000	3750.0	CP-OFDM QPSK	273@0	97.571	100.5
78	30	100	650000	3750.0	CP-OFDM 16 QAM	273@0	97.343	100.5
78	30	100	650000	3750.0	CP-OFDM 64 QAM	273@0	97.509	100.4
78	30	100	650000	3750.0	CP-OFDM 256 QAM	273@0	97.295	100.3

N78(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

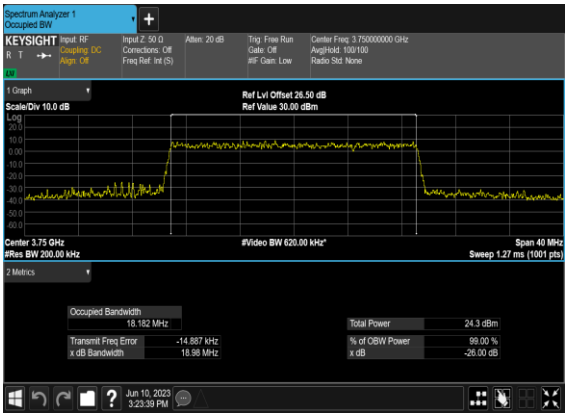


N78(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

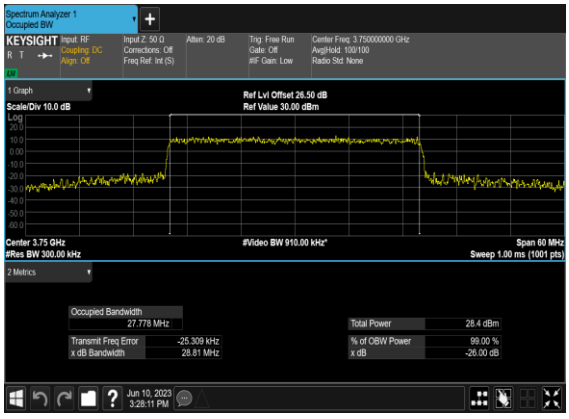


N78(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N78(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

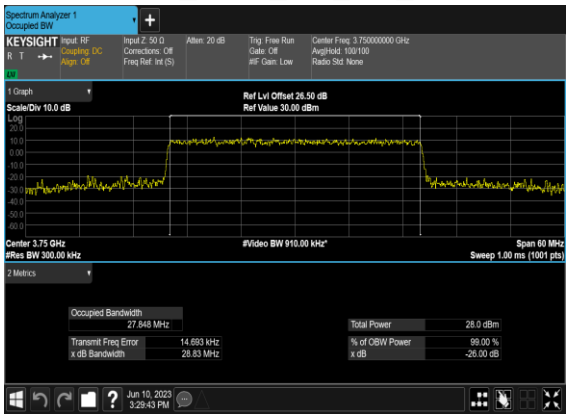


N78(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

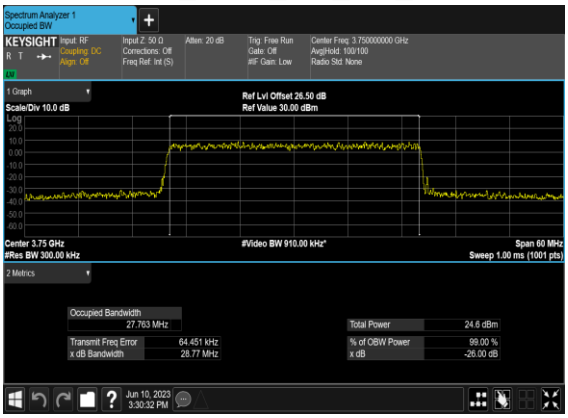


N78(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

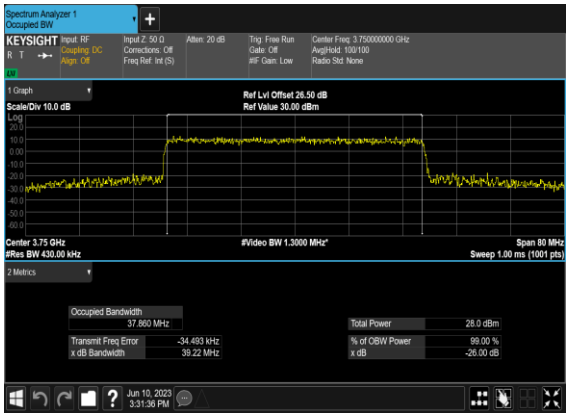
N78(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



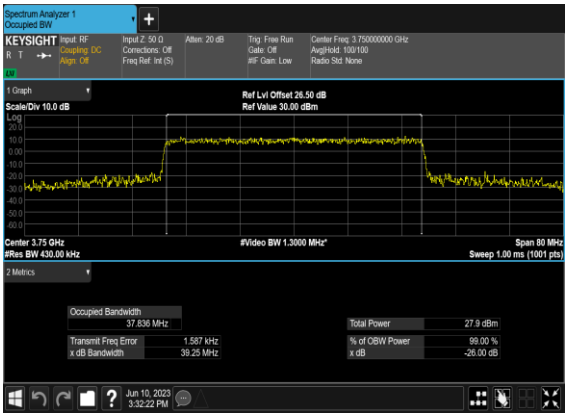
N78(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



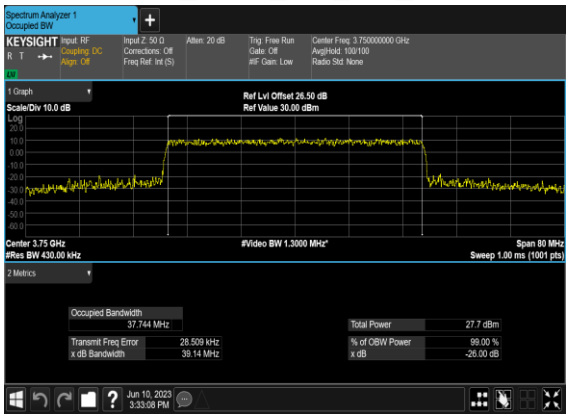
N78(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N78(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N78(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



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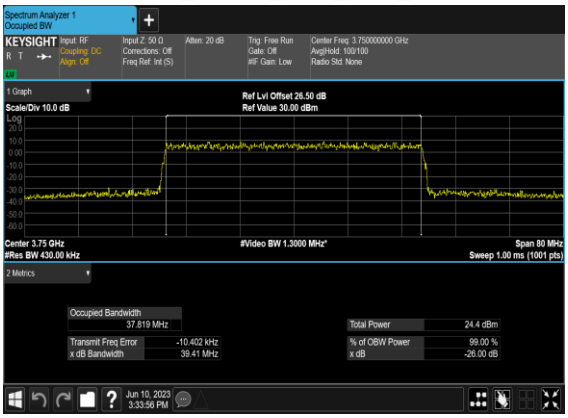
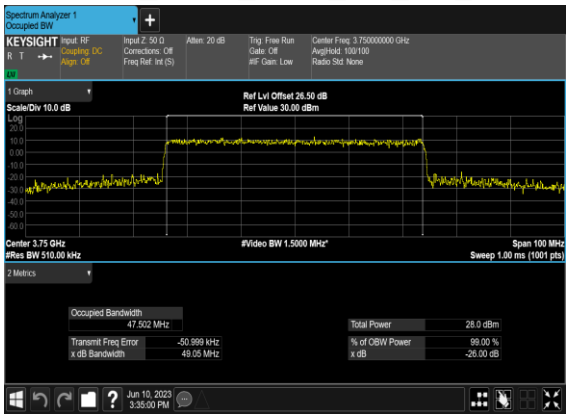
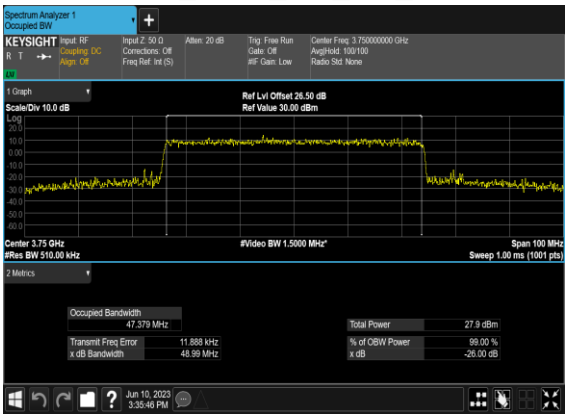


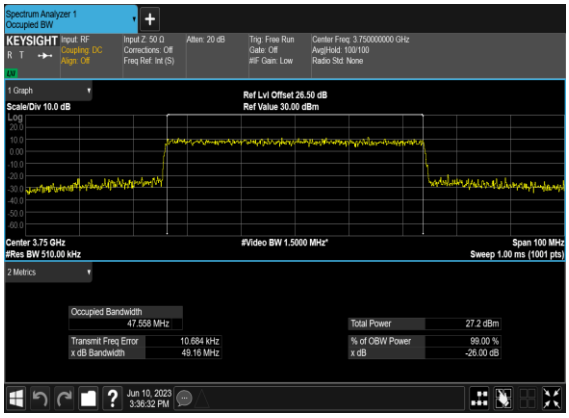
N78(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



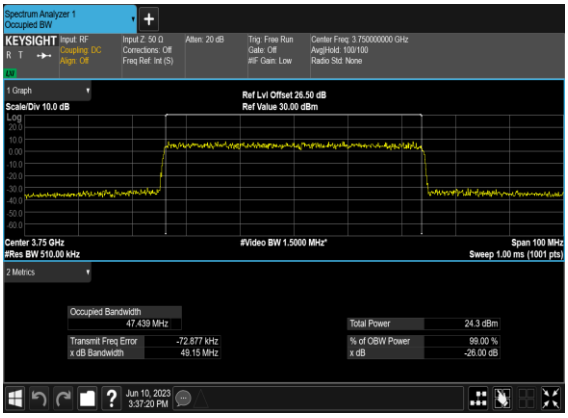
N78(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



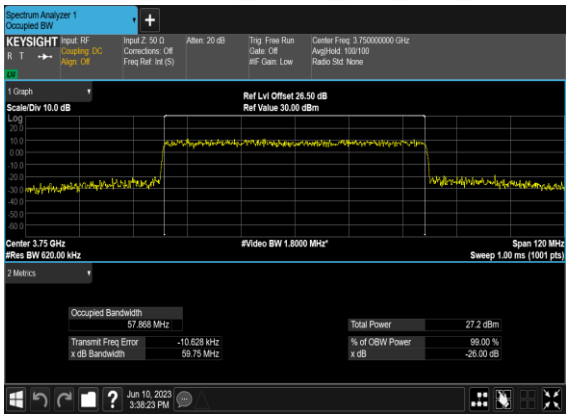
N78(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N78(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

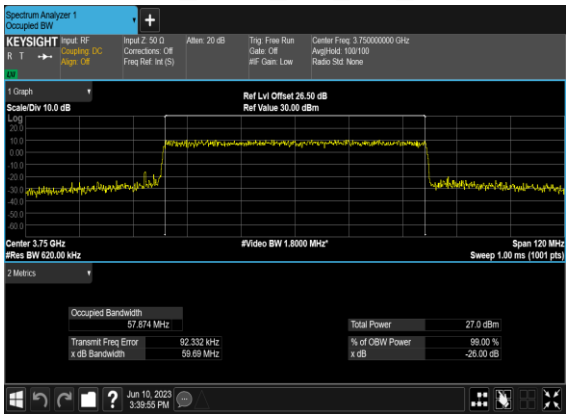


N78(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

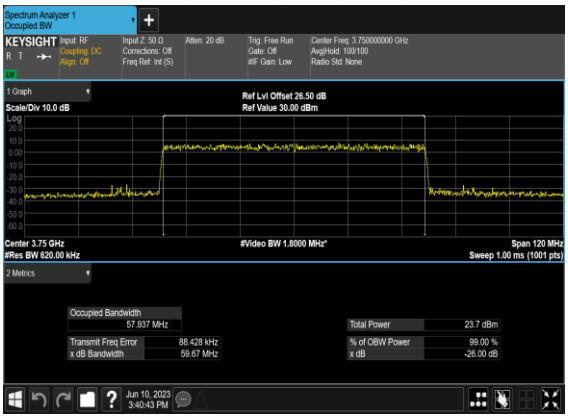


N78(60M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

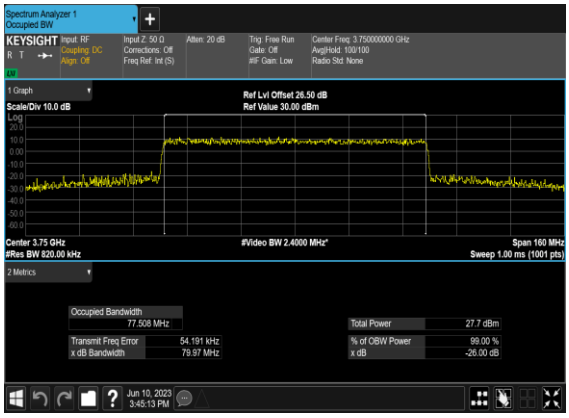
N78(60M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



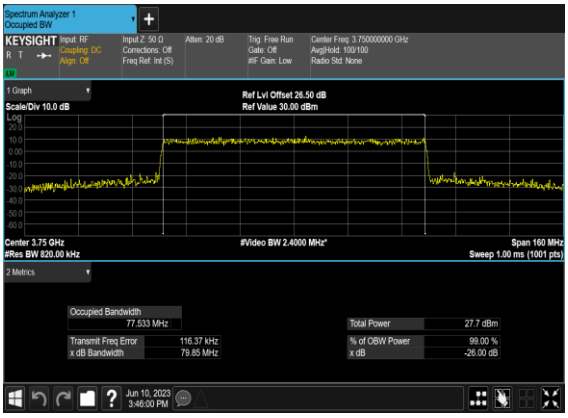
N78(60M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



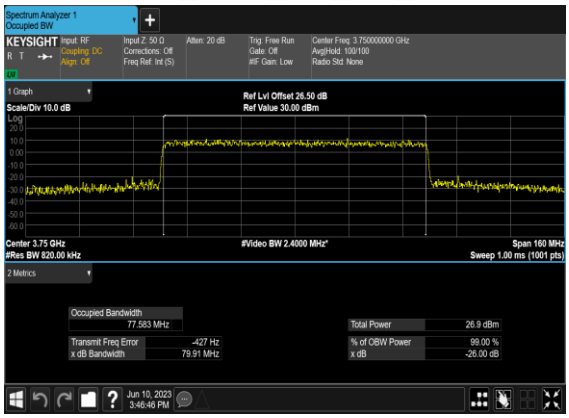
N78(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



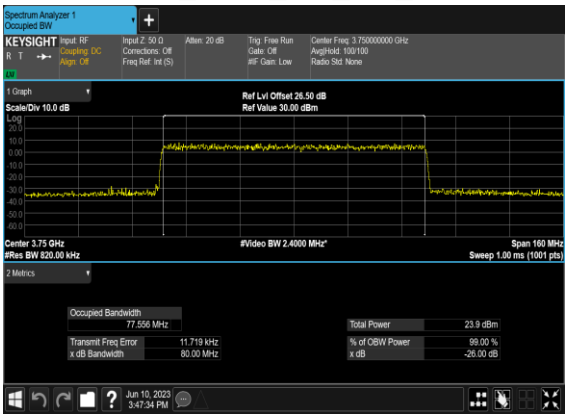
N78(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



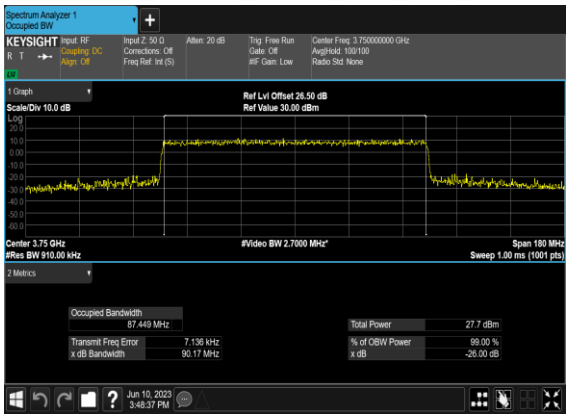
N78(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



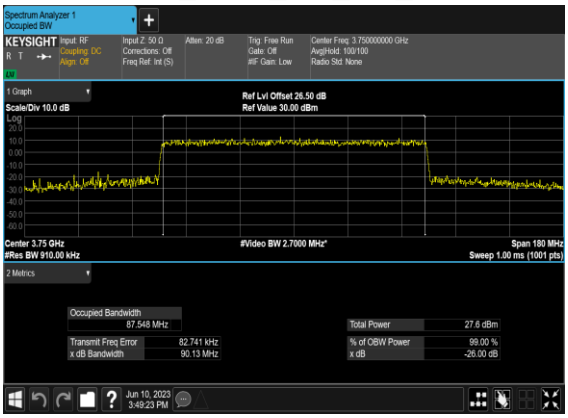
N78(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N78(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

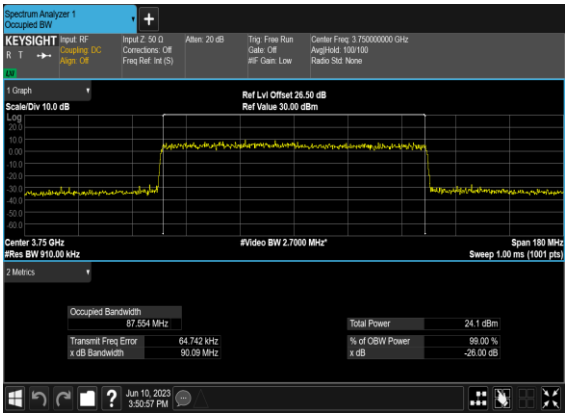


N78(90M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

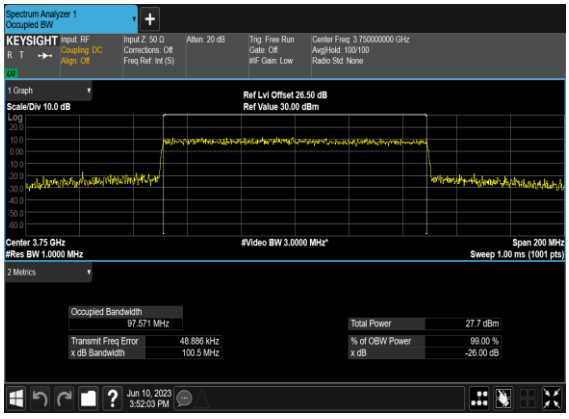


N78(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

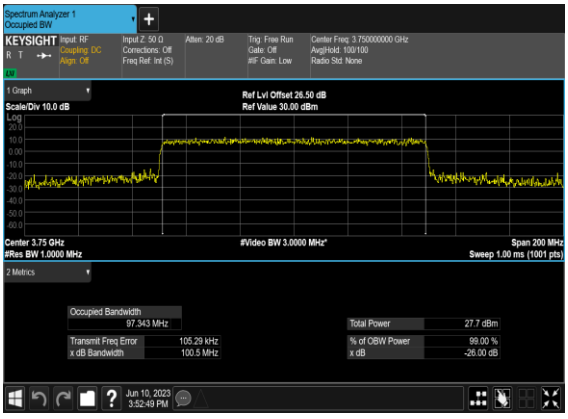
N78(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

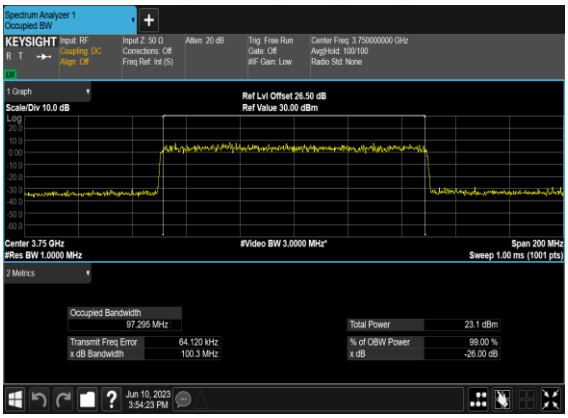


N78(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N78(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

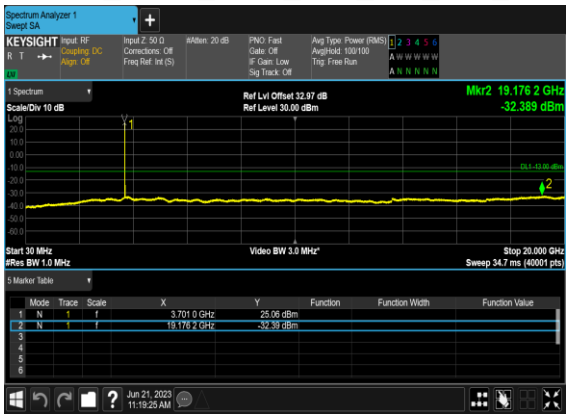


Conducted Spurious Emissions

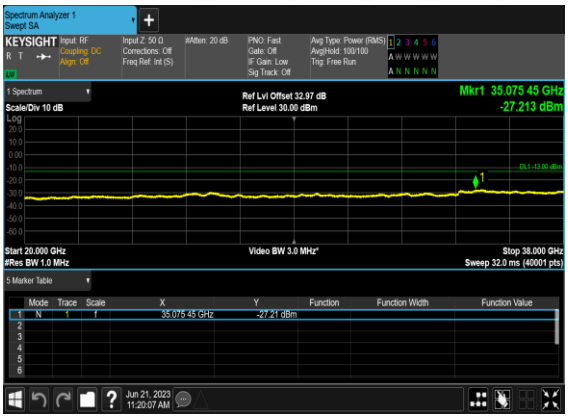
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see 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	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS

78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	50	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	651666	3774.99	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

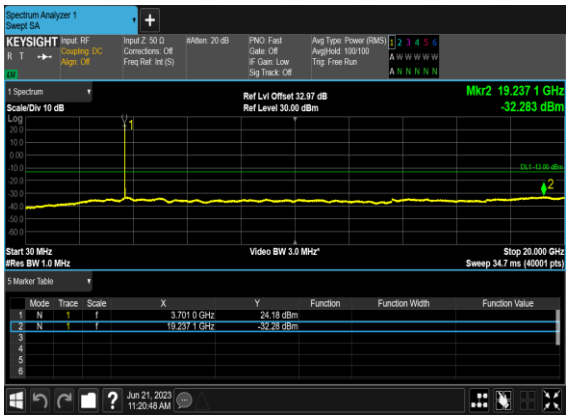
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



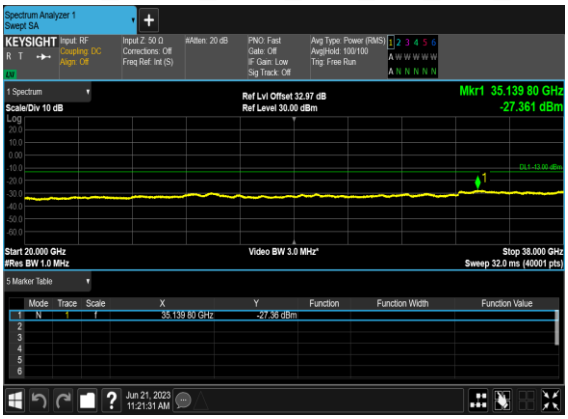
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



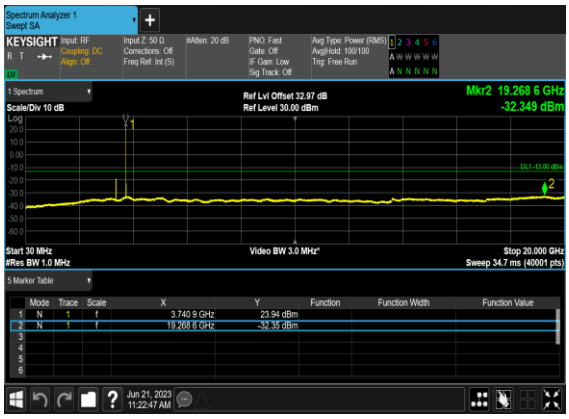
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



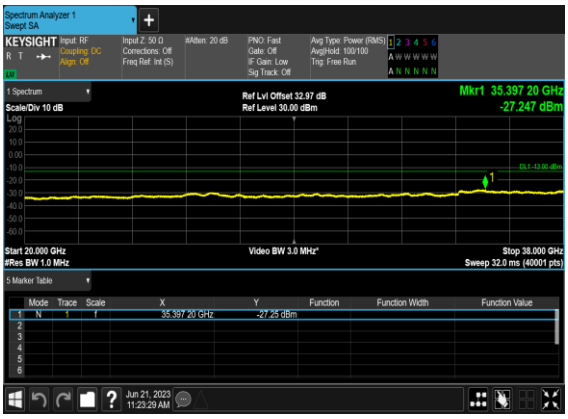
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



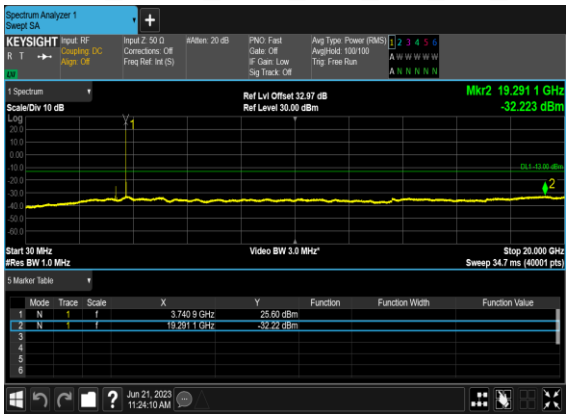
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



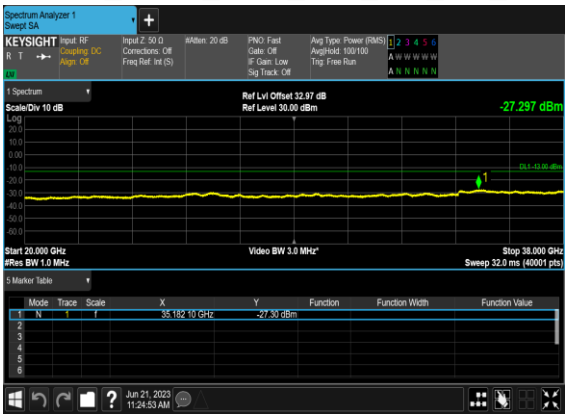
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



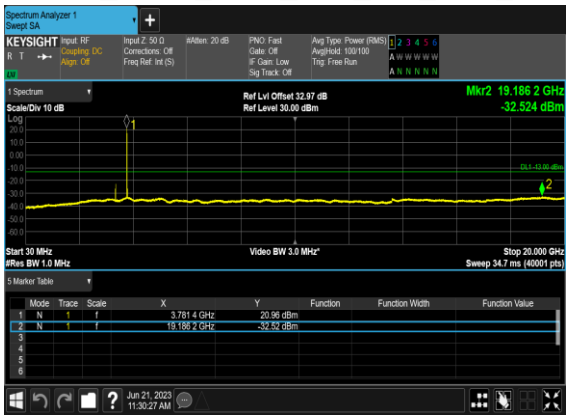
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



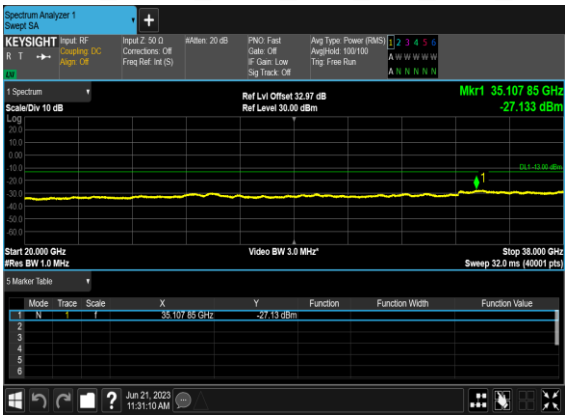
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



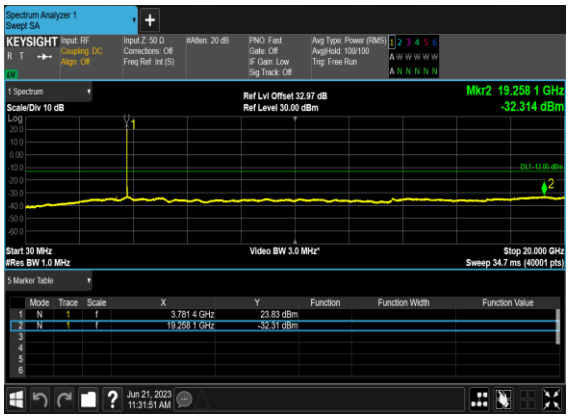
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



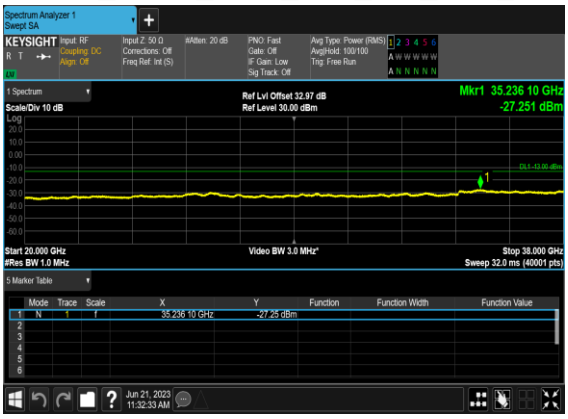
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



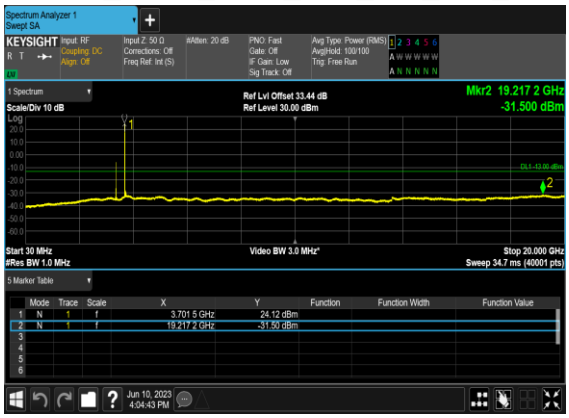
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



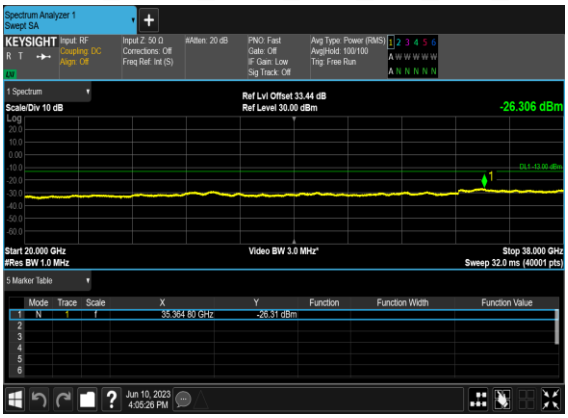
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



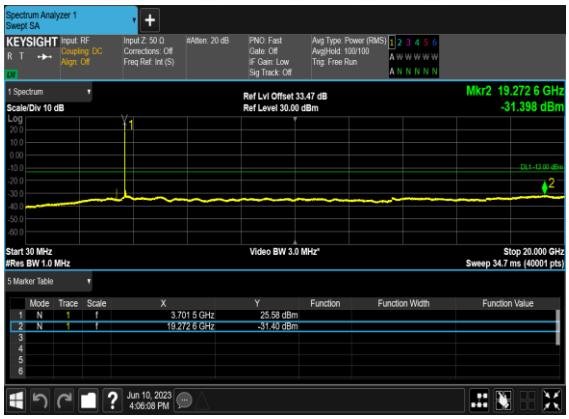
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



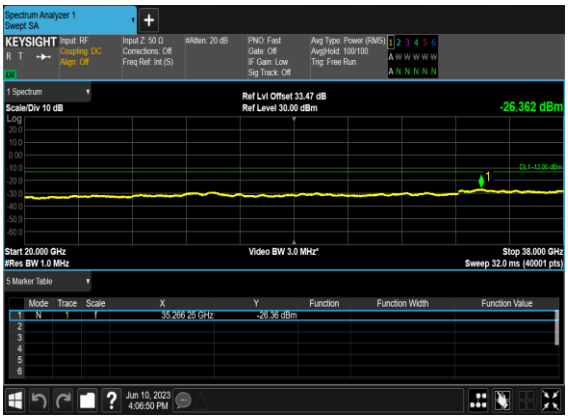
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



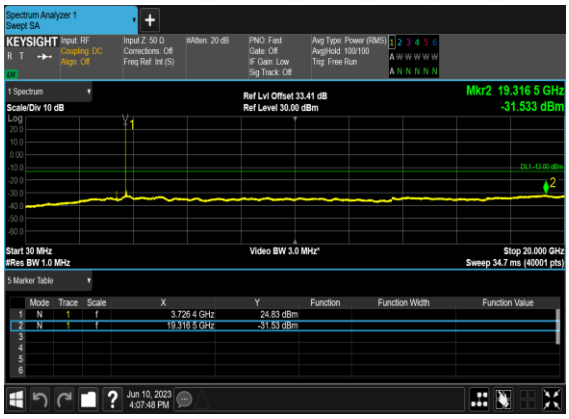
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

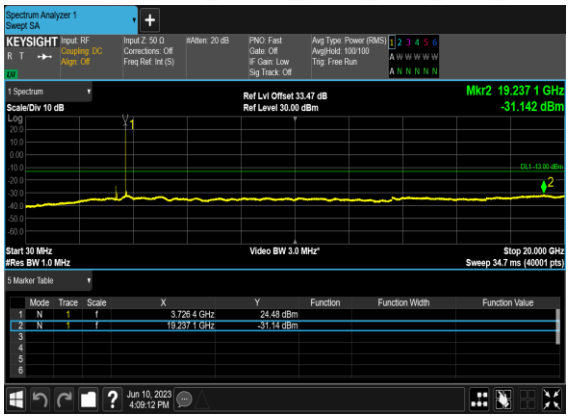


N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

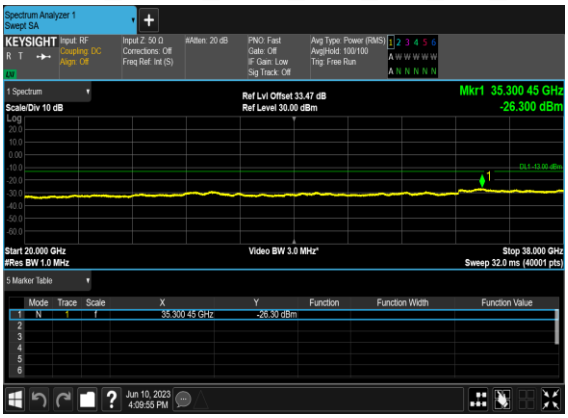


N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

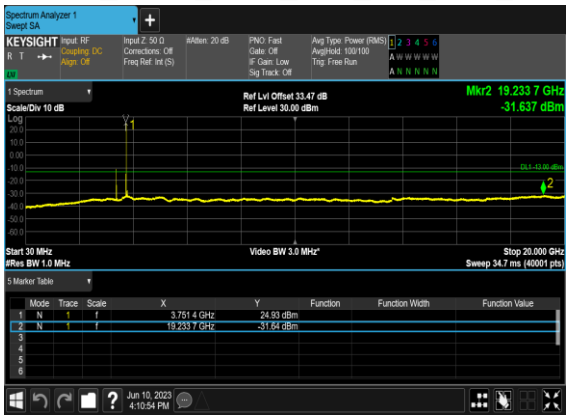
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



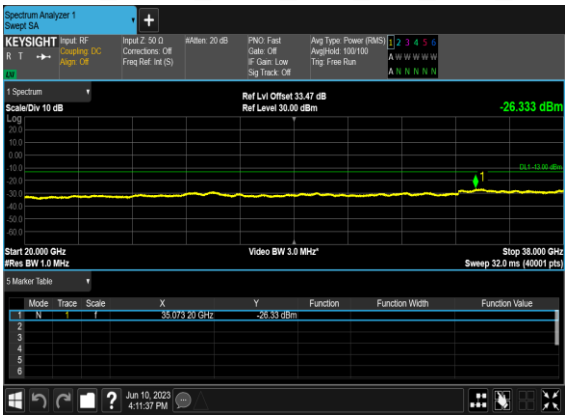
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



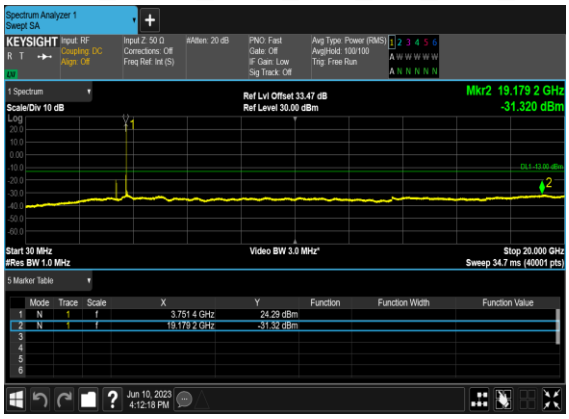
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



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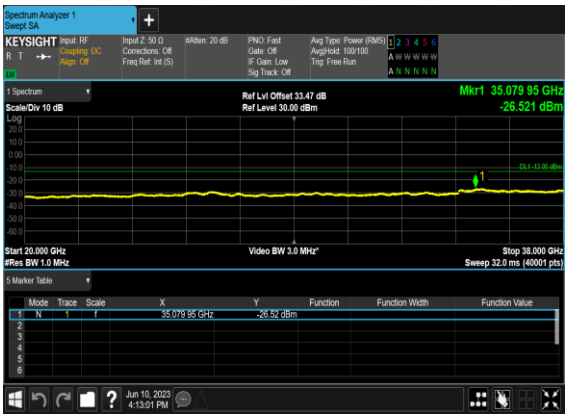
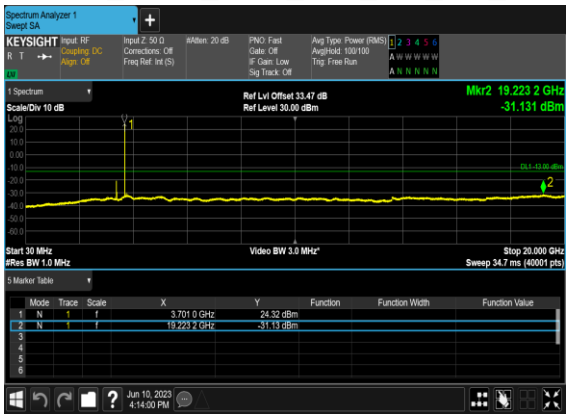
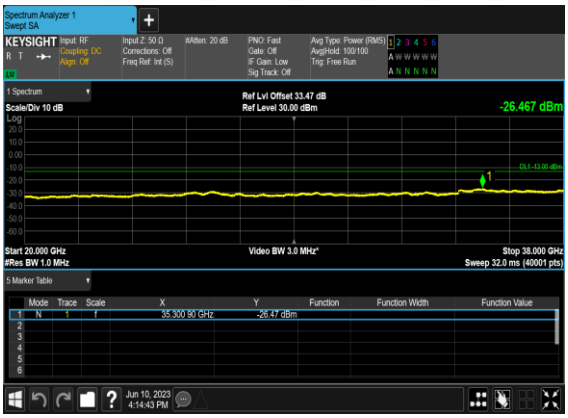


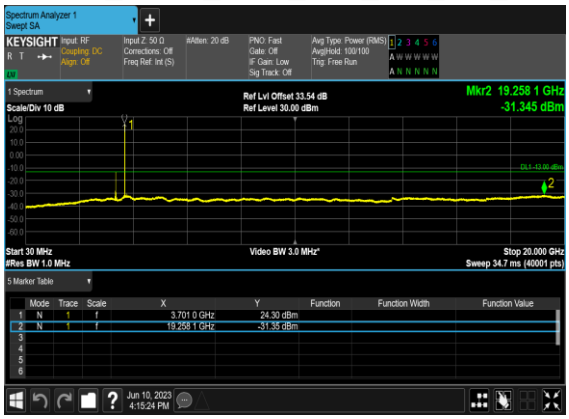
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



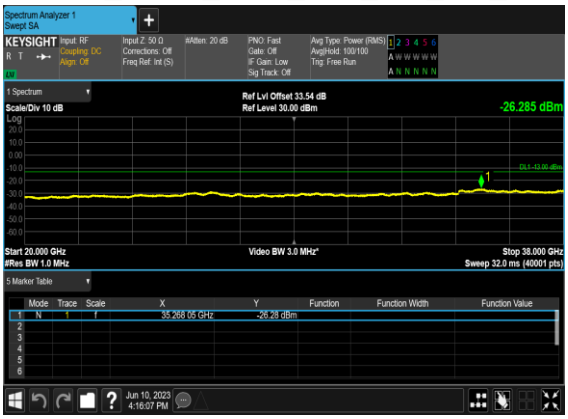
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



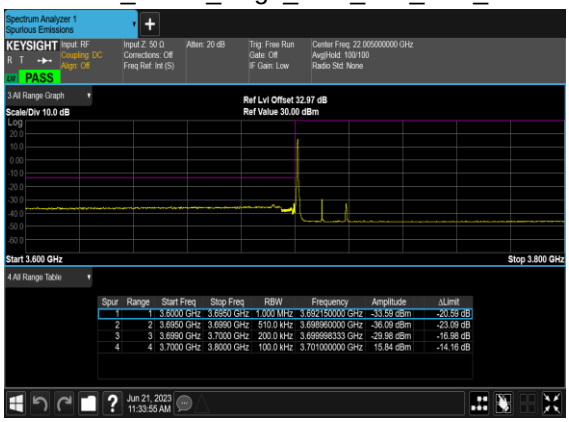
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



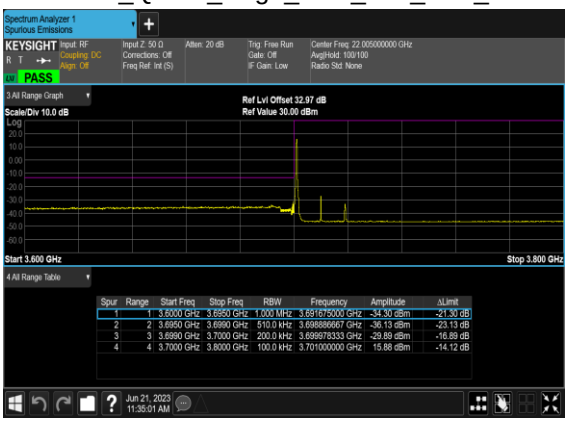
Conducted Band Edge

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	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	128@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	128@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@132	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@132	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	128@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	128@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

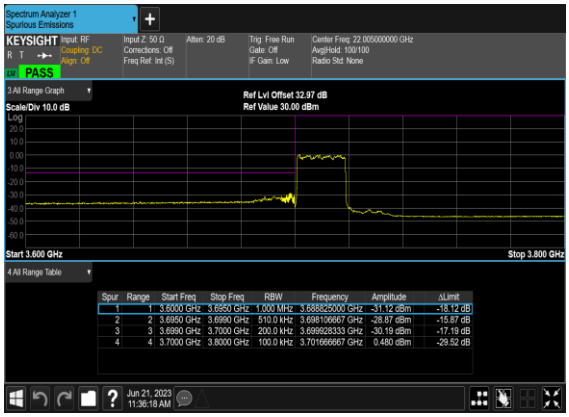
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



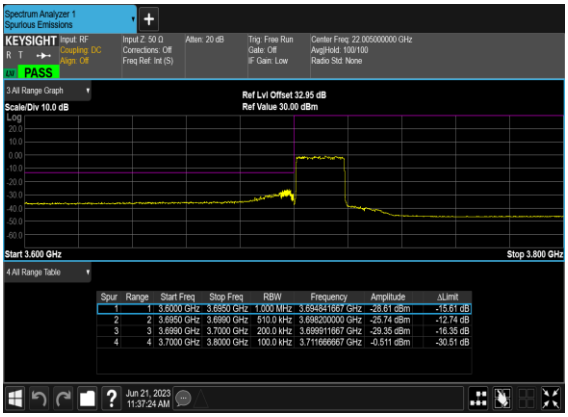
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



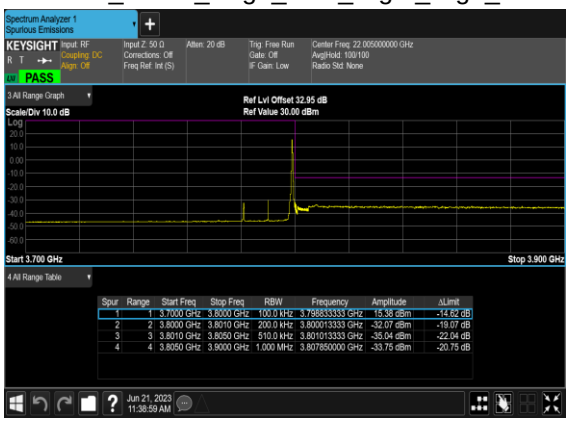
N78(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



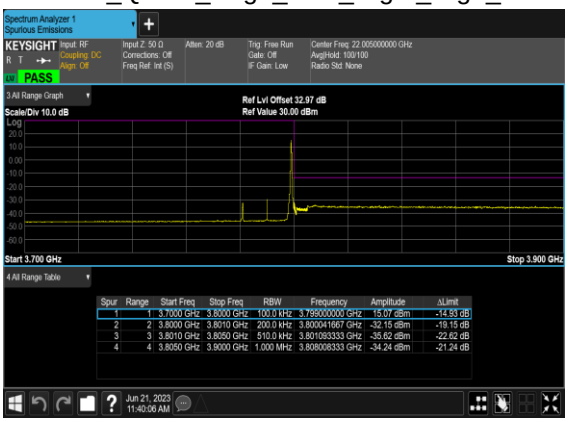
N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



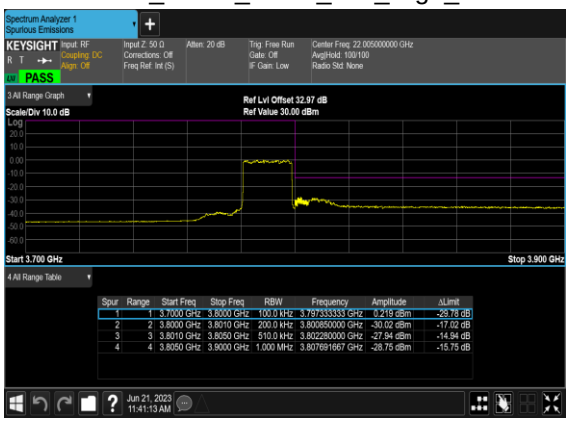
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



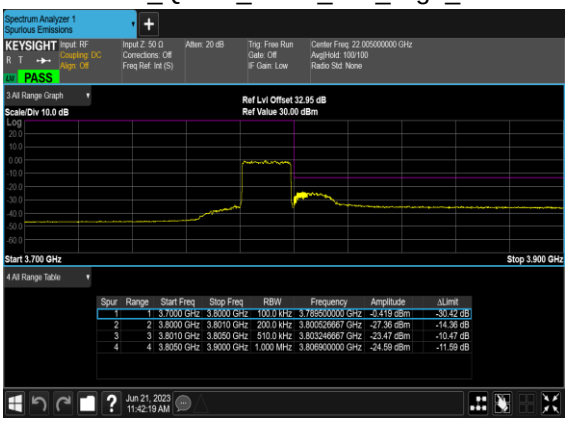
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



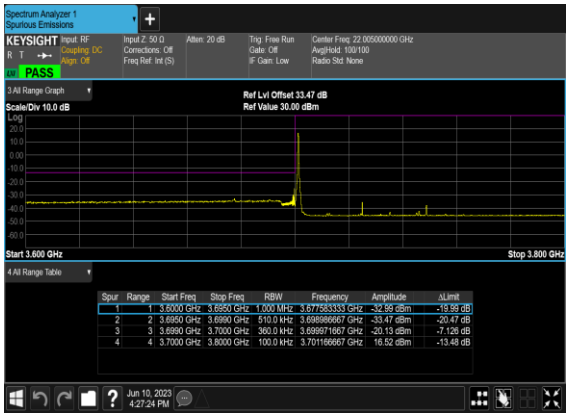
N78(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



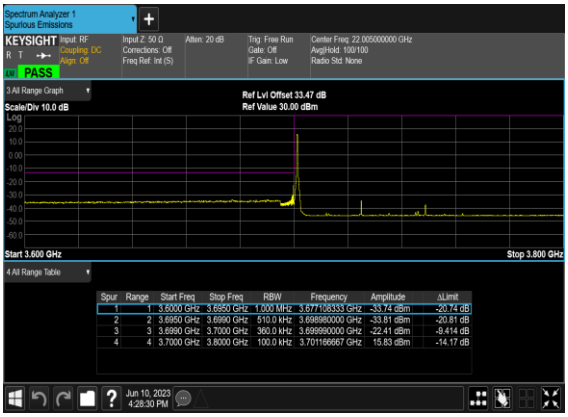
N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



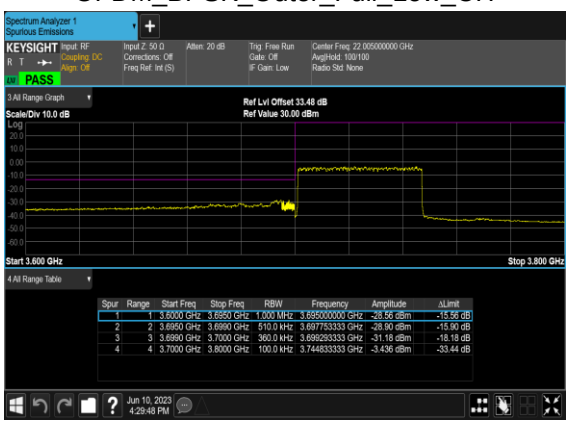
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



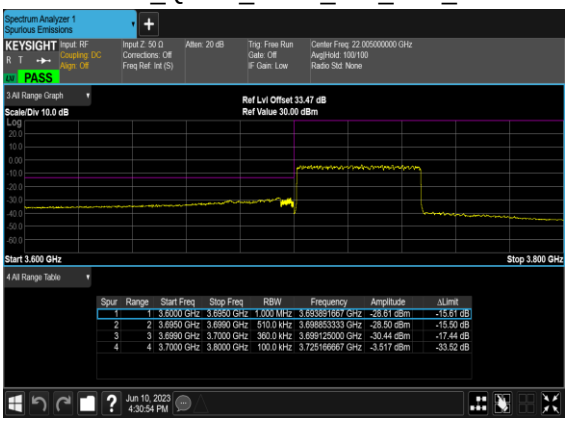
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



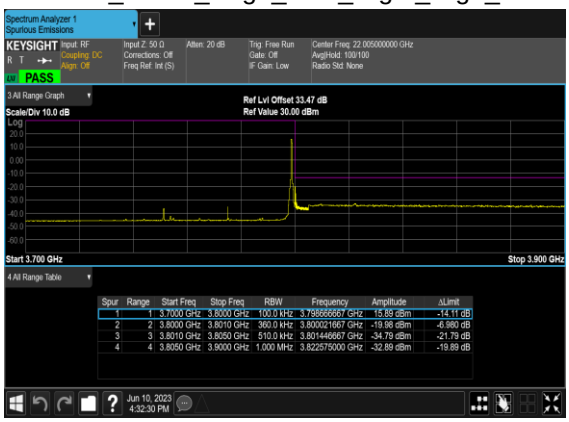
N78(50M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



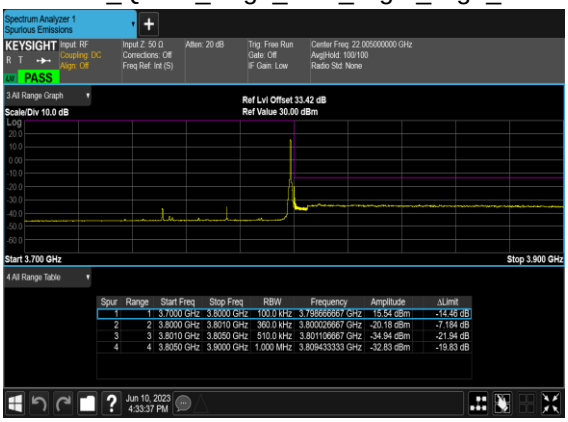
N78(50M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



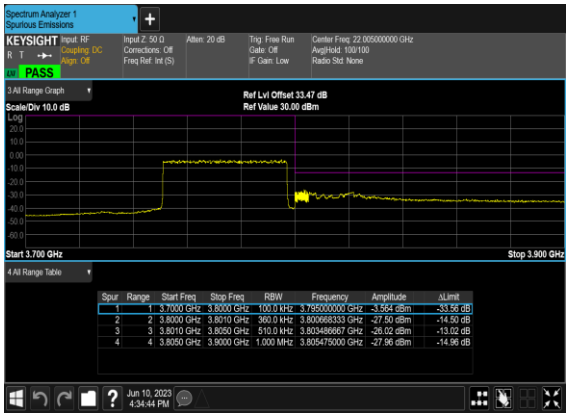
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



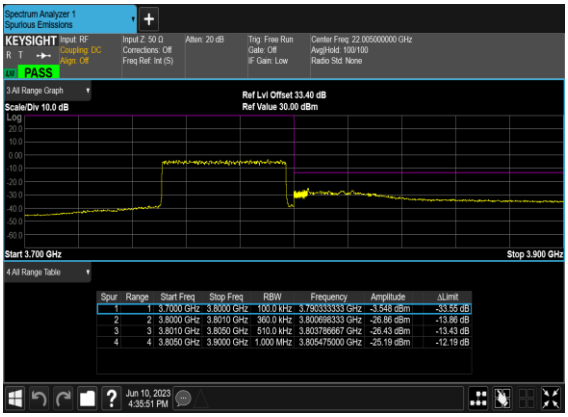
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



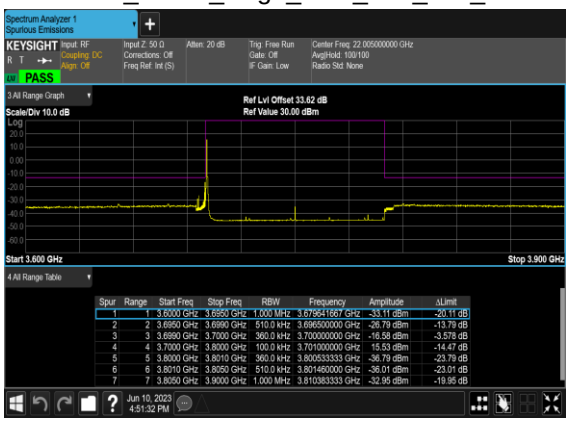
N78(50M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



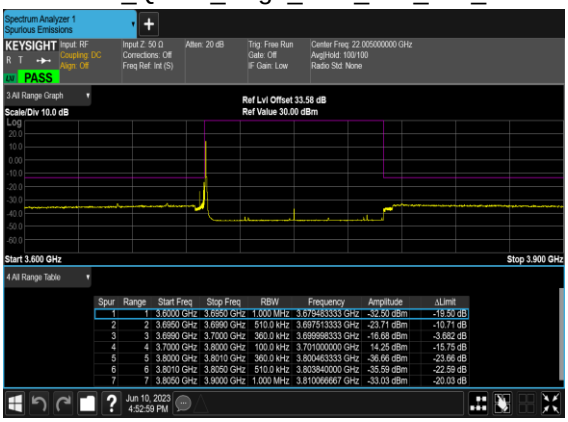
N78(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



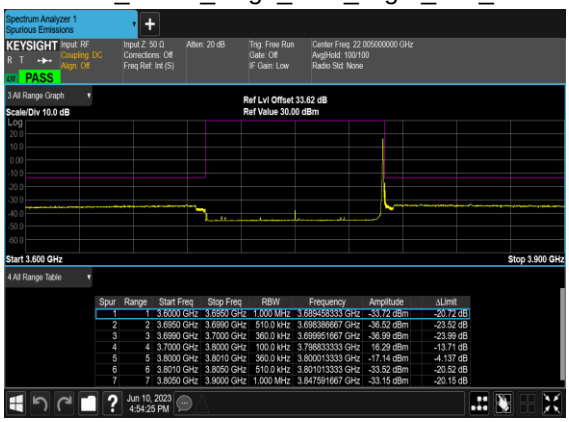
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



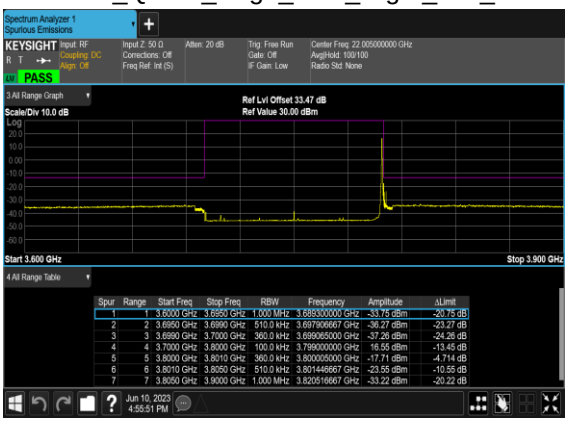
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



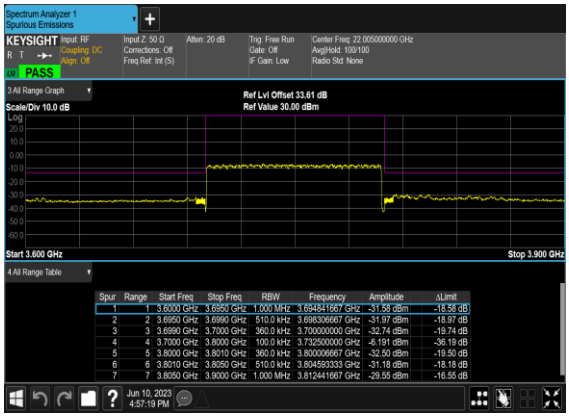
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



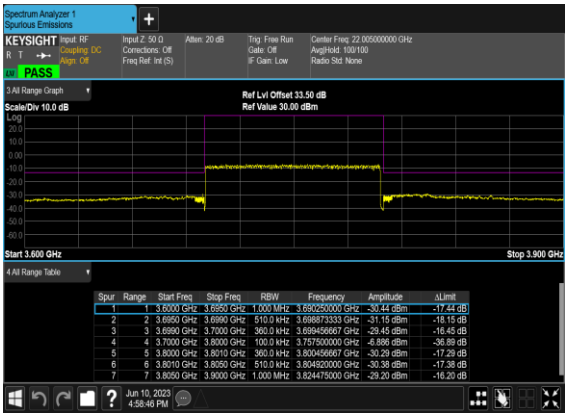
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



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℃
		Relative Humidity :	48~52%

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

n78 SA / NR 100MHz / QPSK / ANT5									
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	7402.342	-58.09	-13	-45.09	-57.21	-61.39	8.30	11.60	H
	11103.51	-53.71	-13	-40.71	-59.04	-55.23	10.48	12.00	H
	14804.68	-50.14	-13	-37.14	-60.41	-51.84	11.80	13.50	H
	7402.342	-58.12	-13	-45.12	-57.26	-61.42	8.30	11.60	V
	11103.51	-53.81	-13	-40.81	-58.85	-55.33	10.48	12.00	V
	14804.68	-50.59	-13	-37.59	-60.31	-52.29	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/ LTE(ANT4) + NR(ANT5)									
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)
B41 Middle	5195.00	-59.49	-25	-34.49	-81.26	-65.05	7.14	12.70	H
	7792.50	-58.04	-25	-33.04	-57.21	-61.34	8.30	11.60	H
	10390.00	-54.90	-25	-29.90	-57.77	-56.42	10.48	12.00	H
	5195.00	-58.98	-25	-33.98	-81.06	-64.54	7.14	12.70	V
	7792.50	-58.39	-25	-33.39	-57.38	-61.69	8.30	11.60	V
	10390.00	-55.44	-25	-30.44	-57.51	-56.96	10.48	12.00	V
N78 Middle	7402.342	-58.32	-13	-45.32	-58.32	-61.62	8.30	11.60	H
	11103.51	-53.53	-13	-40.53	-53.53	-55.05	10.48	12.00	H
	14804.68	-49.76	-13	-36.76	-49.76	-51.46	11.80	13.50	H
	7402.342	-58.38	-13	-45.38	-58.38	-61.68	8.30	11.60	V
	11103.51	-53.69	-13	-40.69	-53.69	-55.21	10.48	12.00	V
	14804.68	-50.48	-13	-37.48	-50.48	-52.18	11.80	13.50	V

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

n77 SA / NR 100MHz / QPSK / ANT5									
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	7582.358	-59.23	-13	-46.23	-57.89	-62.53	8.30	11.60	H
	11373.54	-53.44	-13	-40.44	-59.15	-54.96	10.48	12.00	H
	15164.72	-50.65	-13	-37.65	-60.73	-52.35	11.80	13.50	H
	7582.358	-59.09	-13	-46.09	-57.71	-62.39	8.30	11.60	V
	11373.54	-53.64	-13	-40.64	-59.08	-55.16	10.48	12.00	V
	15164.72	-51.07	-13	-38.07	-60.5	-52.77	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/ LTE(ANT4) + NR(ANT5)									
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)
B41 Middle	5195	-59.18	-25	-34.18	-80.95	-64.74	7.14	12.70	H
	7792.5	-58.32	-25	-33.32	-57.49	-61.62	8.30	11.60	H
	10390	-54.34	-25	-29.34	-57.21	-55.86	10.48	12.00	H
	5195	-58.65	-25	-33.65	-80.73	-64.21	7.14	12.70	V
	7792.5	-58.39	-25	-33.39	-57.38	-61.69	8.30	11.60	V
	10390	-55.62	-25	-30.62	-57.69	-57.14	10.48	12.00	V
N77 Middle	7582.358	-58.99	-13	-45.99	-57.65	-62.29	8.30	11.60	H
	11373.54	-53.57	-13	-40.57	-59.28	-55.09	10.48	12.00	H
	15164.72	-50.87	-13	-37.87	-60.95	-52.57	11.80	13.50	H
	7582.358	-59.09	-13	-46.09	-57.71	-62.39	8.30	11.60	V
	11373.54	-53.90	-13	-40.90	-59.34	-55.42	10.48	12.00	V
	15164.72	-51.12	-13	-38.12	-60.55	-52.82	11.80	13.50	V

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