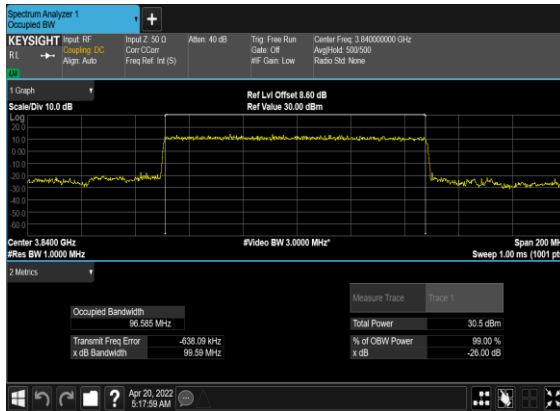
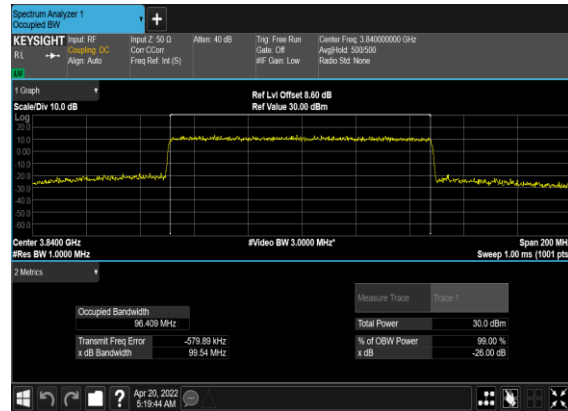


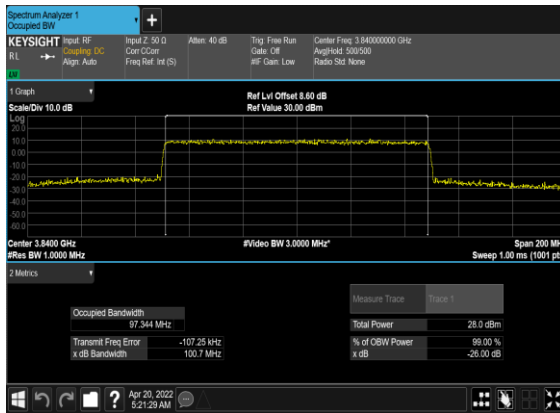
N77(100M)\_DFT-s-OFDM\_PI\_2-  
BPSK\_Outer\_Full\_Mid\_CH



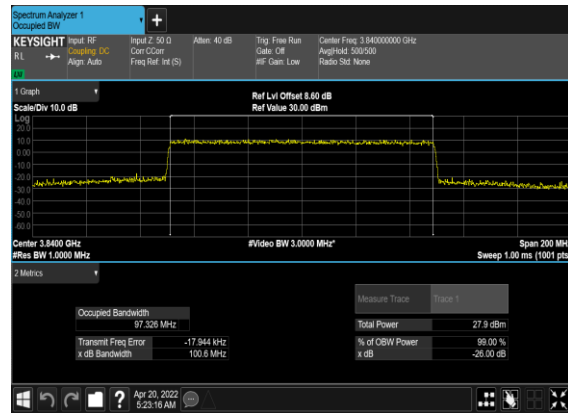
N77(100M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



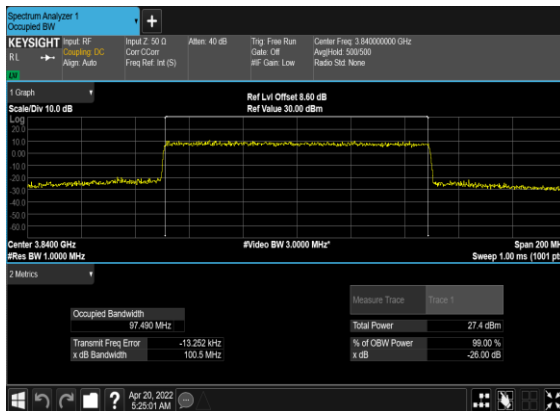
N77(100M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



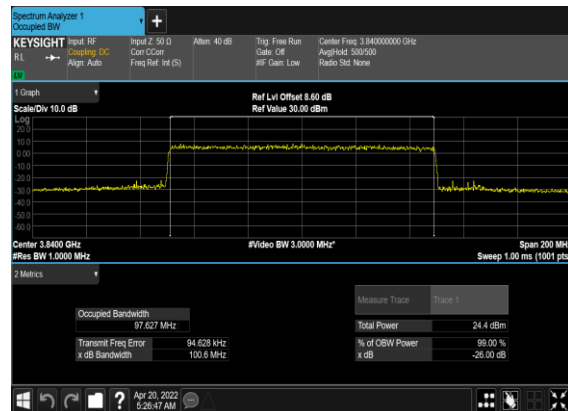
N77(100M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



N77(100M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH



N77(100M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH



## Conducted Spurious Emissions

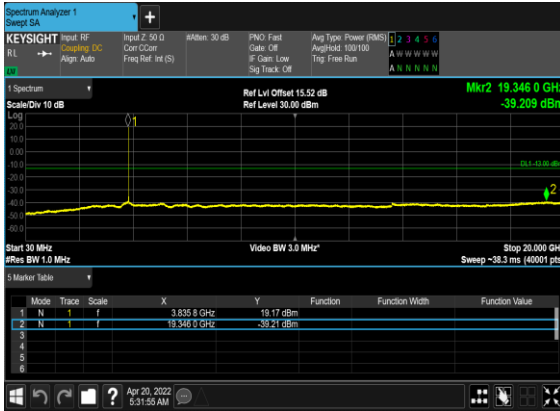
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	---

77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
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	<b>PASS</b>
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
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	<b>PASS</b>
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
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	<b>PASS</b>
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---

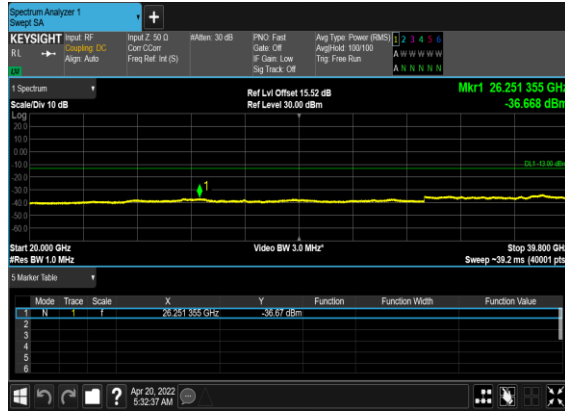
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see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



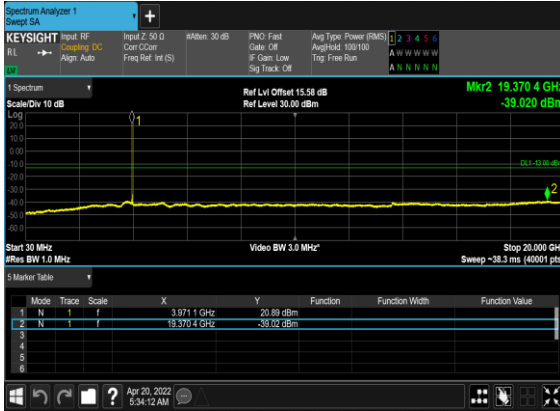
### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



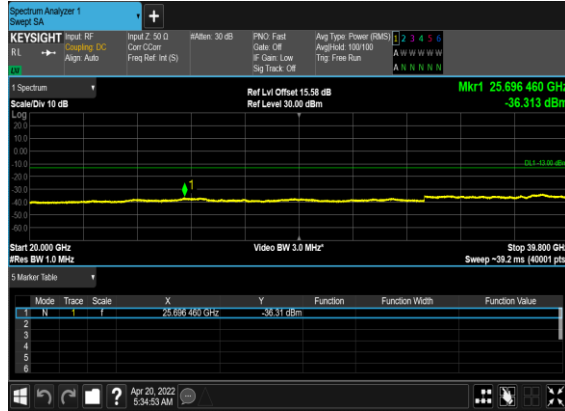
### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



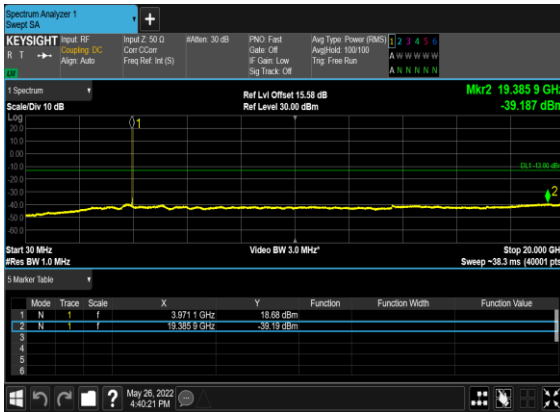
### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



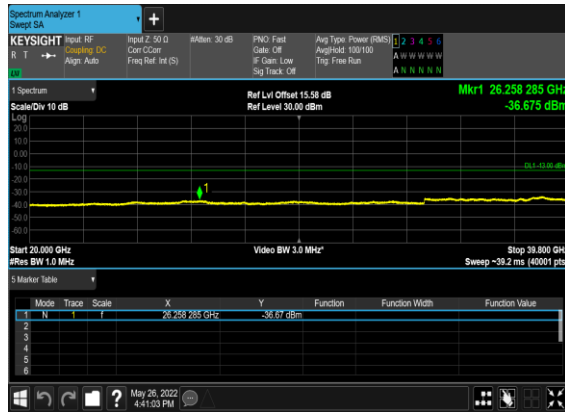
### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



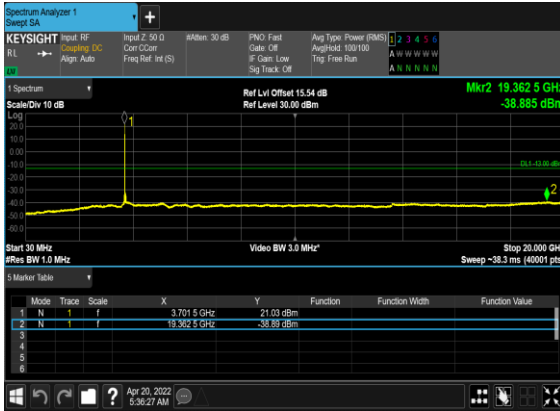
### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



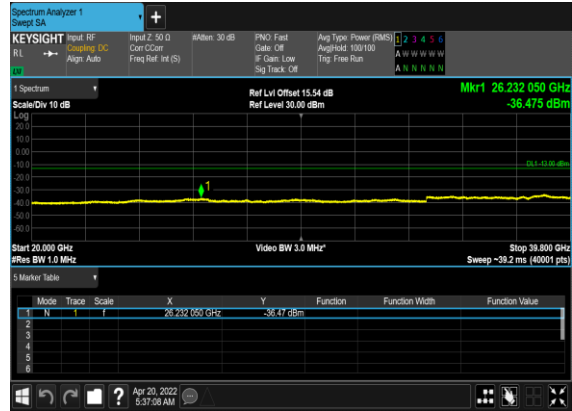
### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



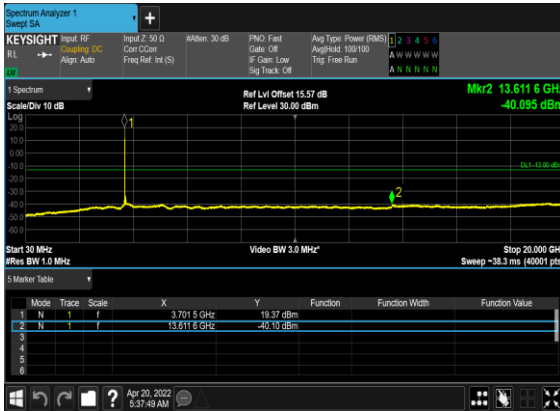
### N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



### N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



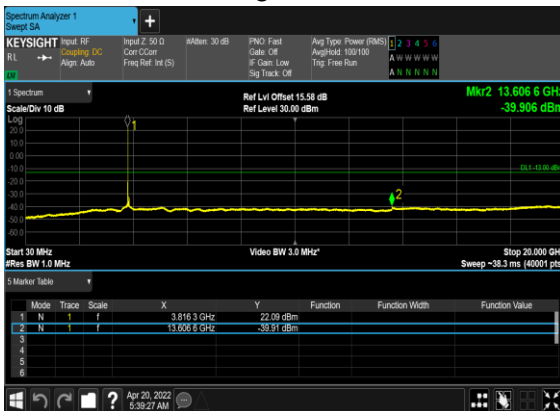
### N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



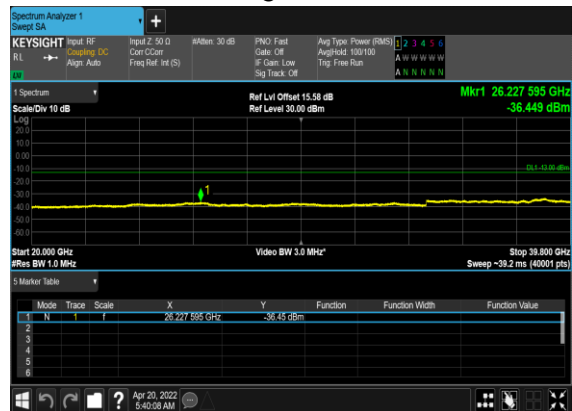
### N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



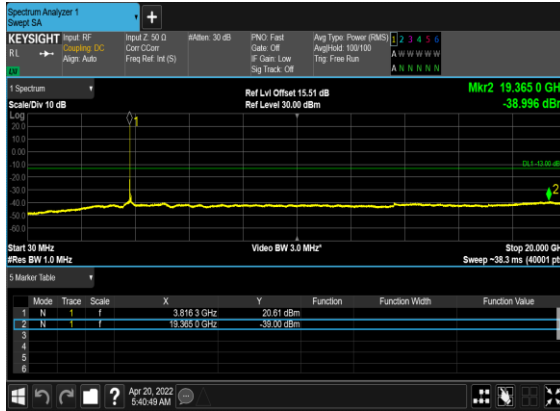
### N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



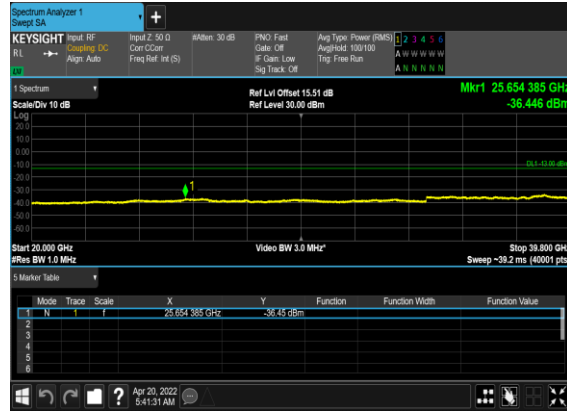
### N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



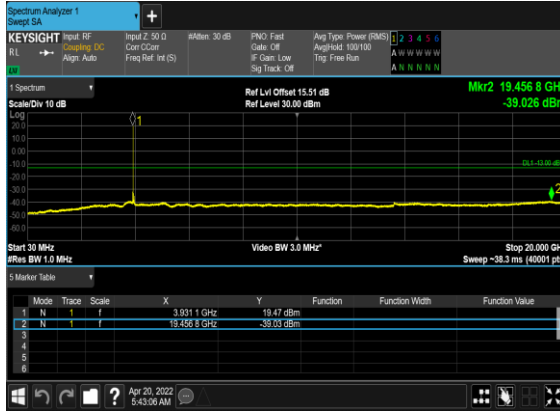
N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



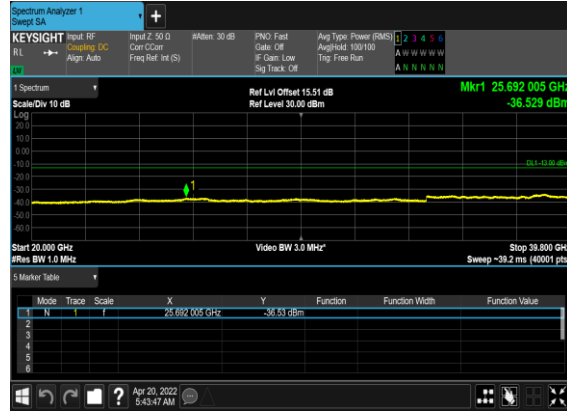
N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



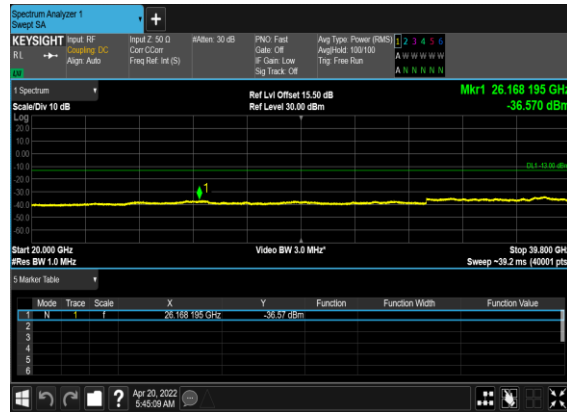
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

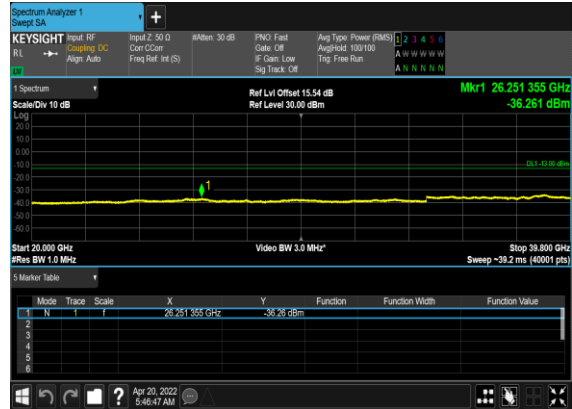




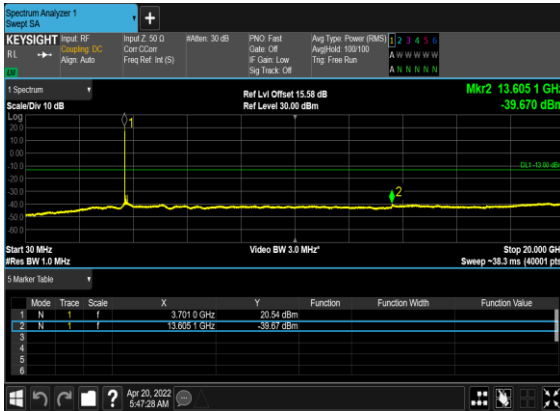
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



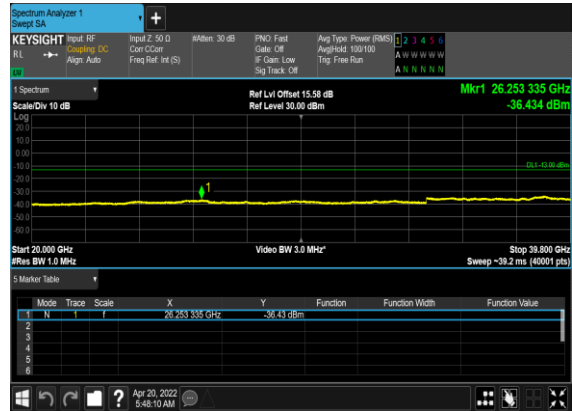
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



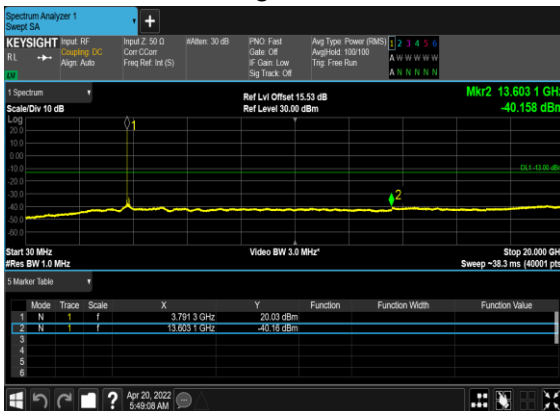
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



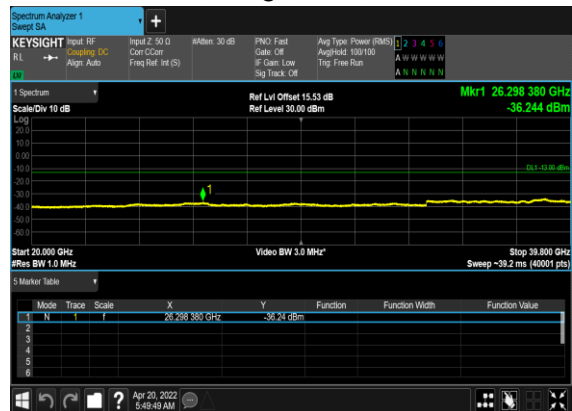
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



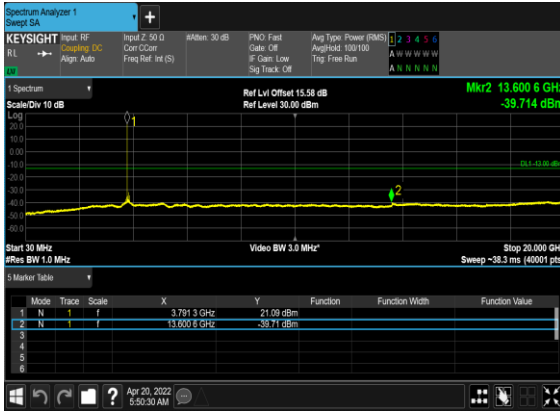
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



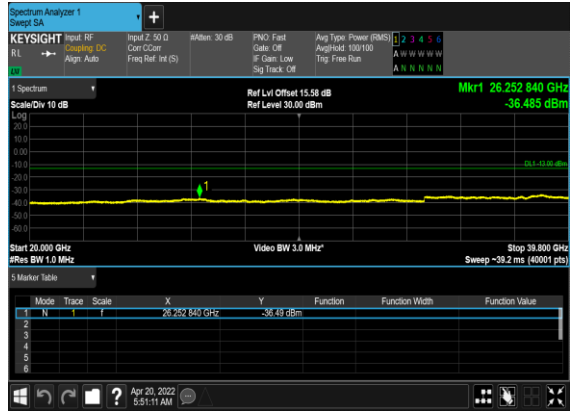
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



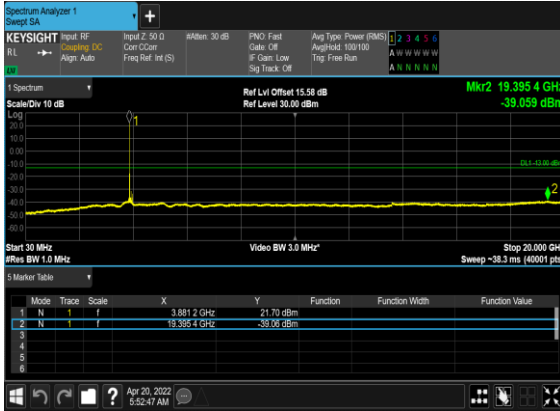
### N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



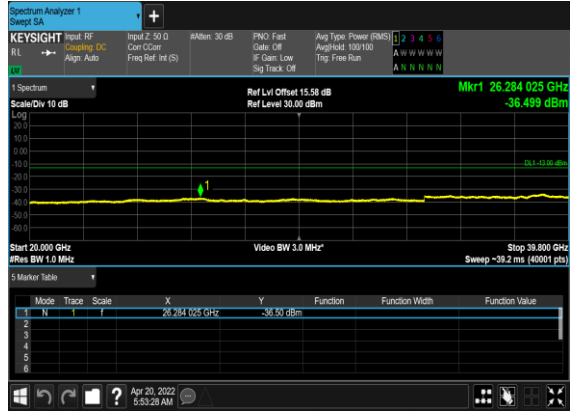
### N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



### N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



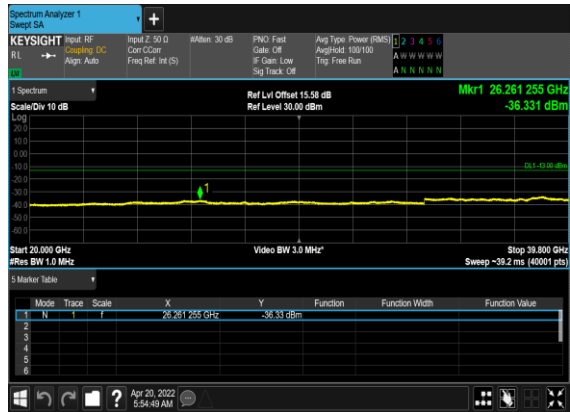
### N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



### N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



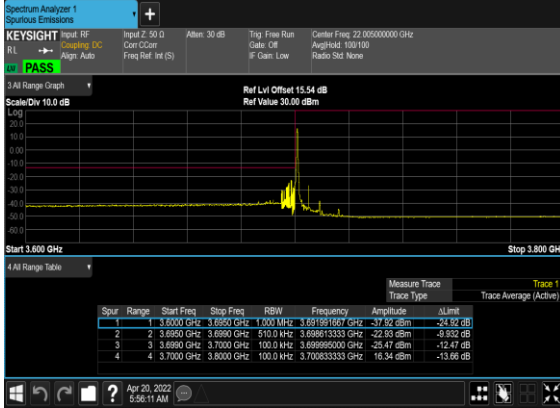
### N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



## Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@23	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@23	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	128@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	128@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@132	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@132	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	128@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	128@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

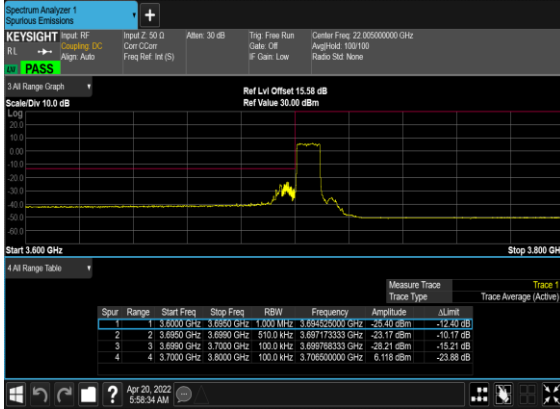
N77(10M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



N77(10M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N77(10M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_Low\_CH



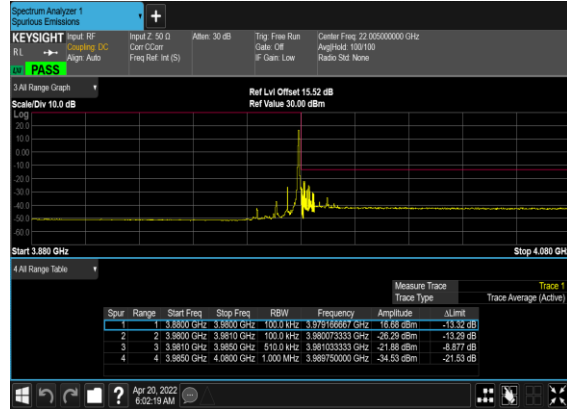
N77(10M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH



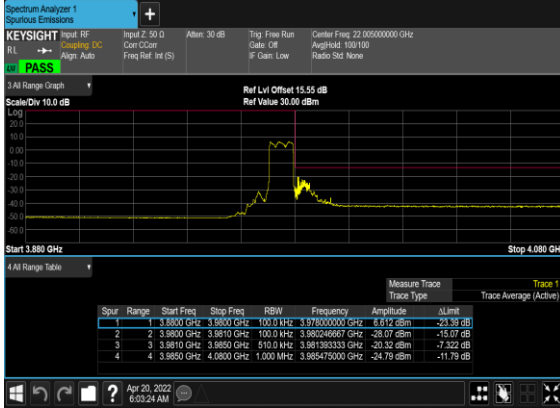
N77(10M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



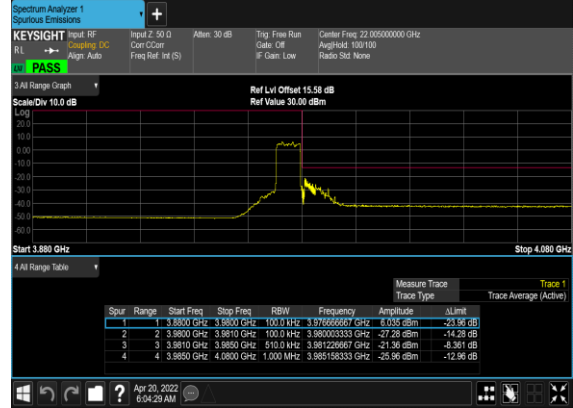
N77(10M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



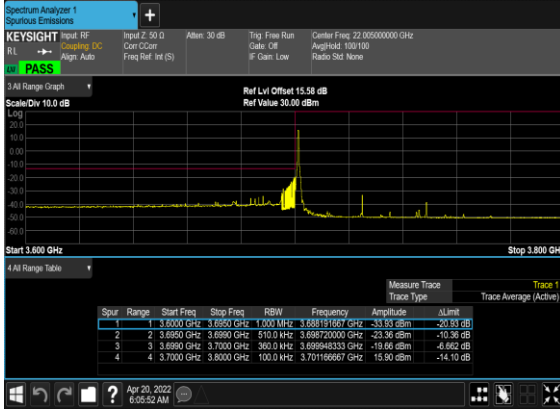
N77(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



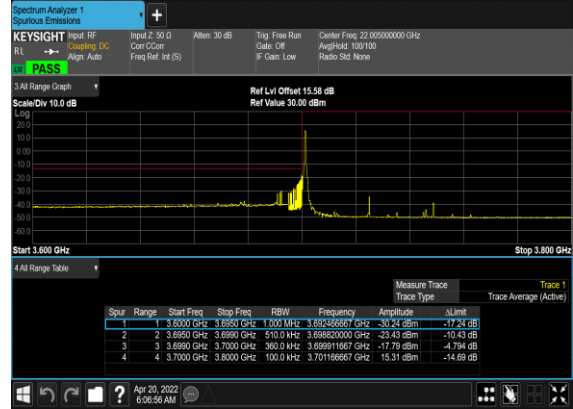
N77(10M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



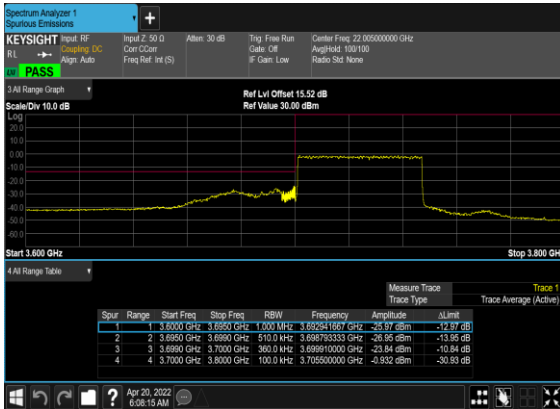
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



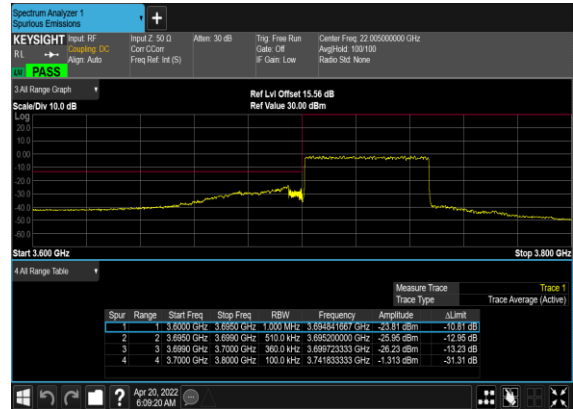
N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



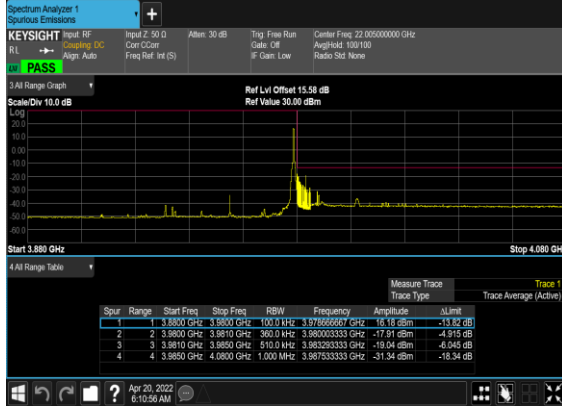
N77(50M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



N77(50M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



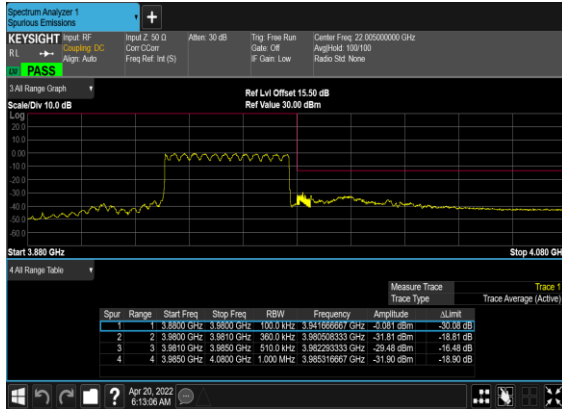
### N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



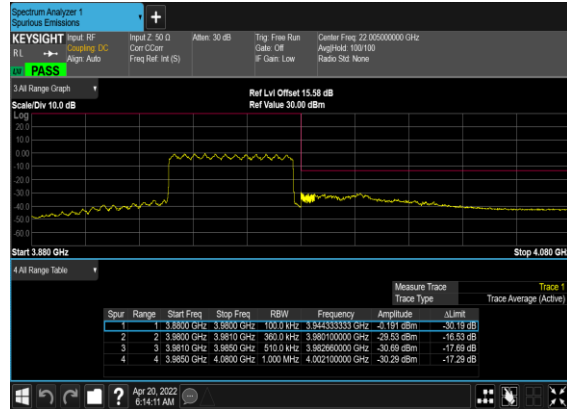
### N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



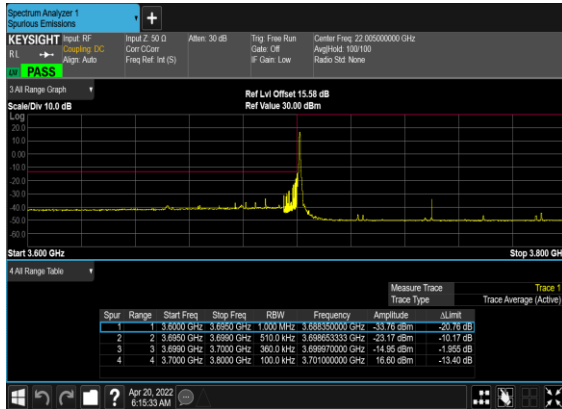
### N77(50M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



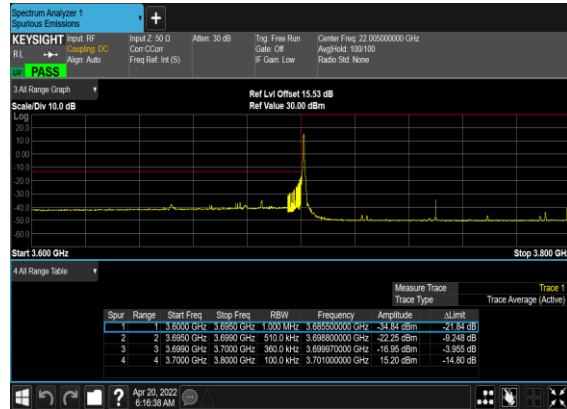
### N77(50M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



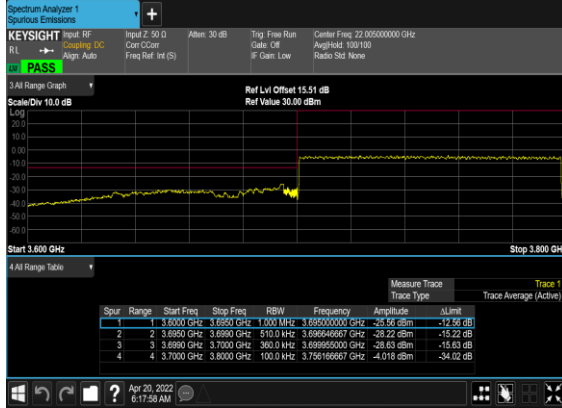
### N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



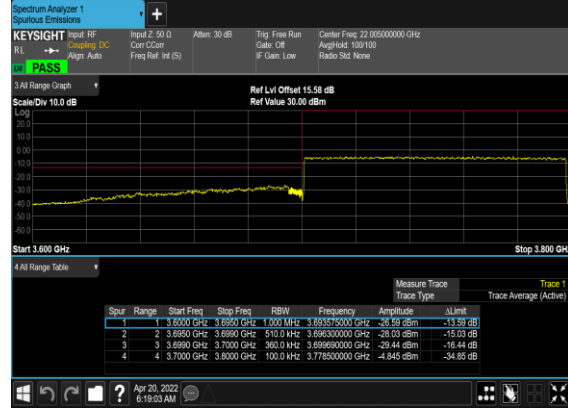
### N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



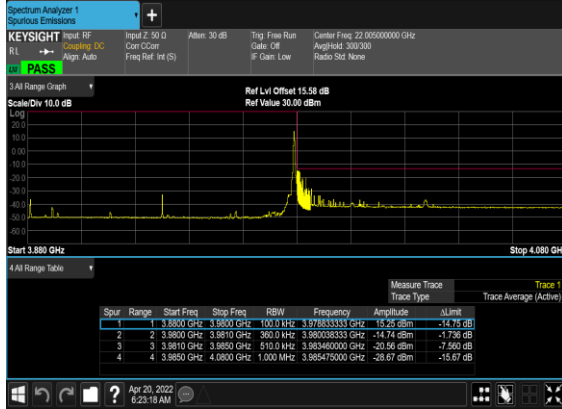
N77(100M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



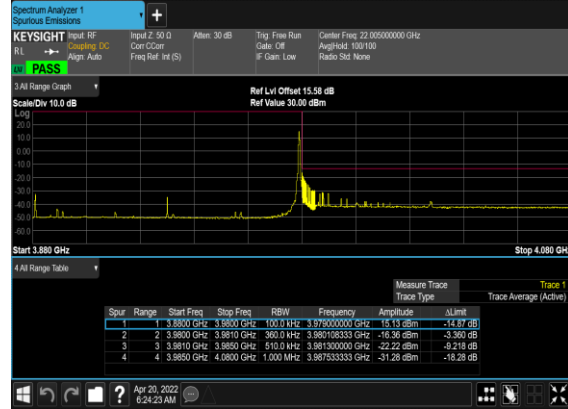
N77(100M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



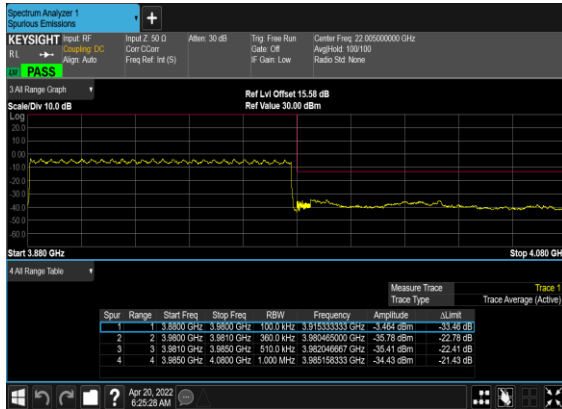
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



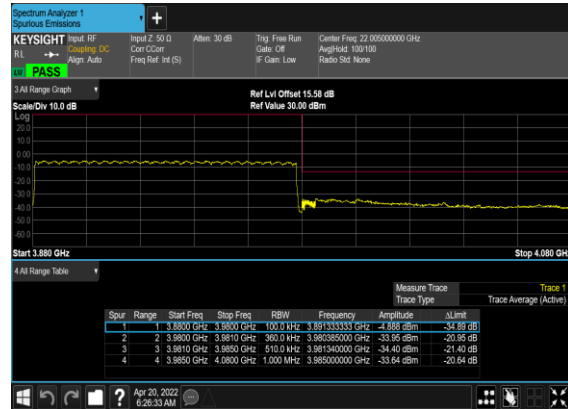
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



N77(100M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



N77(100M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



# FR1 N78 SCS 15kHz

## Conducted Power and EIRP (ANT gain=-6.8dBi)

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	15	10	647000	3705	DFT-s-OFDM PI/2 BPSK	25@12	22.41	15.61	0.0364
78	15	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	22.4	15.6	0.0363
78	15	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@50	22.43	15.63	0.0366
78	15	10	647000	3705	DFT-s-OFDM QPSK	25@12	22.41	15.61	0.0364
78	15	10	647000	3705	DFT-s-OFDM QPSK	1@1	22.39	15.59	0.0362
78	15	10	647000	3705	DFT-s-OFDM QPSK	1@50	22.39	15.59	0.0362
78	15	10	647000	3705	DFT-s-OFDM 16 QAM	25@12	21.37	14.57	0.0286
78	15	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	21.58	14.78	0.0301
78	15	10	647000	3705	DFT-s-OFDM 16 QAM	1@50	21.64	14.84	0.0305
78	15	10	647000	3705	DFT-s-OFDM 64 QAM	25@12	19.9	13.1	0.0204
78	15	10	647000	3705	DFT-s-OFDM 64 QAM	1@1	20.13	13.33	0.0215
78	15	10	647000	3705	DFT-s-OFDM 64 QAM	1@50	20.08	13.28	0.0213
78	15	10	647000	3705	DFT-s-OFDM 256 QAM	25@12	17.83	11.03	0.0127
78	15	10	647000	3705	DFT-s-OFDM 256 QAM	1@1	18.12	11.32	0.0136
78	15	10	647000	3705	DFT-s-OFDM 256 QAM	1@50	18.05	11.25	0.0133
78	15	10	647000	3705	CP-OFDM QPSK	26@13	20.93	14.13	0.0259
78	15	10	647000	3705	CP-OFDM QPSK	1@1	20.82	14.02	0.0252
78	15	10	647000	3705	CP-OFDM QPSK	1@50	20.9	14.1	0.0257
78	15	10	650000	3750	DFT-s-OFDM PI/2 BPSK	25@12	22.47	15.67	0.0369
78	15	10	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.24	15.44	0.0350
78	15	10	650000	3750	DFT-s-OFDM PI/2 BPSK	1@50	22.27	15.47	0.0352



78	15	10	650000	3750	DFT-s-OFDM QPSK	25@12	22.31	15.51	0.0356
78	15	10	650000	3750	DFT-s-OFDM QPSK	1@1	22.52	15.72	0.0373
78	15	10	650000	3750	DFT-s-OFDM QPSK	1@50	22.36	15.56	0.0360
78	15	10	650000	3750	DFT-s-OFDM 16 QAM	25@12	21.33	14.53	0.0284
78	15	10	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.34	14.54	0.0284
78	15	10	650000	3750	DFT-s-OFDM 16 QAM	1@50	21.51	14.71	0.0296
78	15	10	650000	3750	DFT-s-OFDM 64 QAM	25@12	19.78	12.98	0.0199
78	15	10	650000	3750	DFT-s-OFDM 64 QAM	1@1	19.9	13.1	0.0204
78	15	10	650000	3750	DFT-s-OFDM 64 QAM	1@50	19.91	13.11	0.0205
78	15	10	650000	3750	DFT-s-OFDM 256 QAM	25@12	17.73	10.93	0.0124
78	15	10	650000	3750	DFT-s-OFDM 256 QAM	1@1	17.85	11.05	0.0127
78	15	10	650000	3750	DFT-s-OFDM 256 QAM	1@50	18.01	11.21	0.0132
78	15	10	650000	3750	CP-OFDM QPSK	26@13	20.78	13.98	0.0250
78	15	10	650000	3750	CP-OFDM QPSK	1@1	20.76	13.96	0.0249
78	15	10	650000	3750	CP-OFDM QPSK	1@50	20.77	13.97	0.0249
78	15	10	653000	3795	DFT-s-OFDM PI/2 BPSK	25@12	22.66	15.86	0.0385
78	15	10	653000	3795	DFT-s-OFDM PI/2 BPSK	1@1	22.62	15.82	0.0382
78	15	10	653000	3795	DFT-s-OFDM PI/2 BPSK	1@50	22.69	15.89	0.0388
78	15	10	653000	3795	DFT-s-OFDM QPSK	25@12	22.71	15.91	0.0390
78	15	10	653000	3795	DFT-s-OFDM QPSK	1@1	22.56	15.76	0.0377
78	15	10	653000	3795	DFT-s-OFDM QPSK	1@50	22.66	15.86	0.0385
78	15	10	653000	3795	DFT-s-OFDM 16 QAM	25@12	21.63	14.83	0.0304
78	15	10	653000	3795	DFT-s-OFDM 16 QAM	1@1	21.81	15.01	0.0317

78	15	10	653000	3795	DFT-s-OFDM 16 QAM	1@50	21.9	15.1	0.0324
78	15	10	653000	3795	DFT-s-OFDM 64 QAM	25@12	20.11	13.31	0.0214
78	15	10	653000	3795	DFT-s-OFDM 64 QAM	1@1	20.34	13.54	0.0226
78	15	10	653000	3795	DFT-s-OFDM 64 QAM	1@50	20.34	13.54	0.0226
78	15	10	653000	3795	DFT-s-OFDM 256 QAM	25@12	18.08	11.28	0.0134
78	15	10	653000	3795	DFT-s-OFDM 256 QAM	1@1	18.29	11.49	0.0141
78	15	10	653000	3795	DFT-s-OFDM 256 QAM	1@50	18.41	11.61	0.0145
78	15	10	653000	3795	CP-OFDM QPSK	26@13	21.15	14.35	0.0272
78	15	10	653000	3795	CP-OFDM QPSK	1@1	21.05	14.25	0.0266
78	15	10	653000	3795	CP-OFDM QPSK	1@50	21.16	14.36	0.0273
78	15	15	647167	3707.505	DFT-s-OFDM PI/2 BPSK	36@18	22.54	15.74	0.0375
78	15	15	647167	3707.505	DFT-s-OFDM PI/2 BPSK	1@1	22.47	15.67	0.0369
78	15	15	647167	3707.505	DFT-s-OFDM PI/2 BPSK	1@77	22.39	15.59	0.0362
78	15	15	647167	3707.505	DFT-s-OFDM QPSK	36@18	22.54	15.74	0.0375
78	15	15	647167	3707.505	DFT-s-OFDM QPSK	1@1	22.48	15.68	0.0370
78	15	15	647167	3707.505	DFT-s-OFDM QPSK	1@77	22.42	15.62	0.0365
78	15	15	647167	3707.505	DFT-s-OFDM 16 QAM	36@18	21.52	14.72	0.0296
78	15	15	647167	3707.505	DFT-s-OFDM 16 QAM	1@1	21.63	14.83	0.0304
78	15	15	647167	3707.505	DFT-s-OFDM 16 QAM	1@77	21.55	14.75	0.0299
78	15	15	647167	3707.505	DFT-s-OFDM 64 QAM	36@18	20.07	13.27	0.0212
78	15	15	647167	3707.505	DFT-s-OFDM 64 QAM	1@1	20.05	13.25	0.0211
78	15	15	647167	3707.505	DFT-s-OFDM 64 QAM	1@77	20.01	13.21	0.0209
78	15	15	647167	3707.505	DFT-s-OFDM 256 QAM	36@18	17.98	11.18	0.0131

78	15	15	647167	3707.505	DFT-s-OFDM 256 QAM	1@1	18.05	11.25	0.0133
78	15	15	647167	3707.505	DFT-s-OFDM 256 QAM	1@77	18.08	11.28	0.0134
78	15	15	647167	3707.505	CP-OFDM QPSK	39@19	20.98	14.18	0.0262
78	15	15	647167	3707.505	CP-OFDM QPSK	1@1	20.95	14.15	0.0260
78	15	15	647167	3707.505	CP-OFDM QPSK	1@77	20.87	14.07	0.0255
78	15	15	650000	3750	DFT-s-OFDM PI/2 BPSK	36@18	22.38	15.58	0.0361
78	15	15	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.28	15.48	0.0353
78	15	15	650000	3750	DFT-s-OFDM PI/2 BPSK	1@77	22.3	15.5	0.0355
78	15	15	650000	3750	DFT-s-OFDM QPSK	36@18	22.35	15.55	0.0359
78	15	15	650000	3750	DFT-s-OFDM QPSK	1@1	22.29	15.49	0.0354
78	15	15	650000	3750	DFT-s-OFDM QPSK	1@77	22.35	15.55	0.0359
78	15	15	650000	3750	DFT-s-OFDM 16 QAM	36@18	21.32	14.52	0.0283
78	15	15	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.41	14.61	0.0289
78	15	15	650000	3750	DFT-s-OFDM 16 QAM	1@77	21.45	14.65	0.0292
78	15	15	650000	3750	DFT-s-OFDM 64 QAM	36@18	19.83	13.03	0.0201
78	15	15	650000	3750	DFT-s-OFDM 64 QAM	1@1	19.82	13.02	0.0200
78	15	15	650000	3750	DFT-s-OFDM 64 QAM	1@77	19.99	13.19	0.0208
78	15	15	650000	3750	DFT-s-OFDM 256 QAM	36@18	17.83	11.03	0.0127
78	15	15	650000	3750	DFT-s-OFDM 256 QAM	1@1	17.89	11.09	0.0129
78	15	15	650000	3750	DFT-s-OFDM 256 QAM	1@77	17.96	11.16	0.0131
78	15	15	650000	3750	CP-OFDM QPSK	39@19	20.84	14.04	0.0254
78	15	15	650000	3750	CP-OFDM QPSK	1@1	20.68	13.88	0.0244
78	15	15	650000	3750	CP-OFDM QPSK	1@77	20.82	14.02	0.0252
78	15	15	652833	3792.495	DFT-s-OFDM PI/2 BPSK	36@18	22.62	15.82	0.0382

78	15	15	652833	3792.495	DFT-s-OFDM PI/2 BPSK	1@1	22.51	15.71	0.0372
78	15	15	652833	3792.495	DFT-s-OFDM PI/2 BPSK	1@77	22.57	15.77	0.0378
78	15	15	652833	3792.495	DFT-s-OFDM QPSK	36@18	22.65	15.85	0.0385
78	15	15	652833	3792.495	DFT-s-OFDM QPSK	1@1	22.53	15.73	0.0374
78	15	15	652833	3792.495	DFT-s-OFDM QPSK	1@77	22.7	15.9	0.0389
78	15	15	652833	3792.495	DFT-s-OFDM 16 QAM	36@18	21.61	14.81	0.0303
78	15	15	652833	3792.495	DFT-s-OFDM 16 QAM	1@1	21.64	14.84	0.0305
78	15	15	652833	3792.495	DFT-s-OFDM 16 QAM	1@77	21.8	15	0.0316
78	15	15	652833	3792.495	DFT-s-OFDM 64 QAM	36@18	20.16	13.36	0.0217
78	15	15	652833	3792.495	DFT-s-OFDM 64 QAM	1@1	20.11	13.31	0.0214
78	15	15	652833	3792.495	DFT-s-OFDM 64 QAM	1@77	20.23	13.43	0.0220
78	15	15	652833	3792.495	DFT-s-OFDM 256 QAM	36@18	18.12	11.32	0.0136
78	15	15	652833	3792.495	DFT-s-OFDM 256 QAM	1@1	18.22	11.42	0.0139
78	15	15	652833	3792.495	DFT-s-OFDM 256 QAM	1@77	18.26	11.46	0.0140
78	15	15	652833	3792.495	CP-OFDM QPSK	39@19	21.07	14.27	0.0267
78	15	15	652833	3792.495	CP-OFDM QPSK	1@1	21.02	14.22	0.0264
78	15	15	652833	3792.495	CP-OFDM QPSK	1@77	21.12	14.32	0.0270
78	15	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	50@25	22.51	15.71	0.0372
78	15	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	22.47	15.67	0.0369
78	15	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@104	22.39	15.59	0.0362
78	15	20	647334	3710.01	DFT-s-OFDM QPSK	50@25	22.55	15.75	0.0376
78	15	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	22.5	15.7	0.0372
78	15	20	647334	3710.01	DFT-s-OFDM QPSK	1@104	22.42	15.62	0.0365

78	15	20	647334	3710.01	DFT-s-OFDM 16 QAM	50@25	21.45	14.65	0.0292
78	15	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	21.68	14.88	0.0308
78	15	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@104	21.65	14.85	0.0305
78	15	20	647334	3710.01	DFT-s-OFDM 64 QAM	50@25	19.95	13.15	0.0207
78	15	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@1	20.19	13.39	0.0218
78	15	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@104	20.16	13.36	0.0217
78	15	20	647334	3710.01	DFT-s-OFDM 256 QAM	50@25	17.93	11.13	0.0130
78	15	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@1	18.14	11.34	0.0136
78	15	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@104	18.11	11.31	0.0135
78	15	20	647334	3710.01	CP-OFDM QPSK	53@26	21.04	14.24	0.0265
78	15	20	647334	3710.01	CP-OFDM QPSK	1@1	21.04	14.24	0.0265
78	15	20	647334	3710.01	CP-OFDM QPSK	1@104	20.88	14.08	0.0256
78	15	20	650000	3750	DFT-s-OFDM PI/2 BPSK	50@25	22.54	15.74	0.0375
78	15	20	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.34	15.54	0.0358
78	15	20	650000	3750	DFT-s-OFDM PI/2 BPSK	1@104	22.4	15.6	0.0363
78	15	20	650000	3750	DFT-s-OFDM QPSK	50@25	22.39	15.59	0.0362
78	15	20	650000	3750	DFT-s-OFDM QPSK	1@1	22.33	15.53	0.0357
78	15	20	650000	3750	DFT-s-OFDM QPSK	1@104	22.39	15.59	0.0362
78	15	20	650000	3750	DFT-s-OFDM 16 QAM	50@25	21.35	14.55	0.0285
78	15	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.51	14.71	0.0296
78	15	20	650000	3750	DFT-s-OFDM 16 QAM	1@104	21.57	14.77	0.0300
78	15	20	650000	3750	DFT-s-OFDM 64 QAM	50@25	19.78	12.98	0.0199
78	15	20	650000	3750	DFT-s-OFDM 64 QAM	1@1	19.86	13.06	0.0202

78	15	20	650000	3750	DFT-s-OFDM 64 QAM	1@104	20.04	13.24	0.0211
78	15	20	650000	3750	DFT-s-OFDM 256 QAM	50@25	17.79	10.99	0.0126
78	15	20	650000	3750	DFT-s-OFDM 256 QAM	1@1	18.07	11.27	0.0134
78	15	20	650000	3750	DFT-s-OFDM 256 QAM	1@104	18.07	11.27	0.0134
78	15	20	650000	3750	CP-OFDM QPSK	53@26	20.83	14.03	0.0253
78	15	20	650000	3750	CP-OFDM QPSK	1@1	20.85	14.05	0.0254
78	15	20	650000	3750	CP-OFDM QPSK	1@104	20.87	14.07	0.0255
78	15	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	50@25	22.38	15.58	0.0361
78	15	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	1@1	22.56	15.76	0.0377
78	15	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	1@104	22.72	15.92	0.0391
78	15	20	652666	3789.99	DFT-s-OFDM QPSK	50@25	22.67	15.87	0.0386
78	15	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	22.59	15.79	0.0379
78	15	20	652666	3789.99	DFT-s-OFDM QPSK	1@104	22.73	15.93	0.0392
78	15	20	652666	3789.99	DFT-s-OFDM 16 QAM	50@25	21.62	14.82	0.0303
78	15	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	21.79	14.99	0.0316
78	15	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@104	21.93	15.13	0.0326
78	15	20	652666	3789.99	DFT-s-OFDM 64 QAM	50@25	20.07	13.27	0.0212
78	15	20	652666	3789.99	DFT-s-OFDM 64 QAM	1@1	20.26	13.46	0.0222
78	15	20	652666	3789.99	DFT-s-OFDM 64 QAM	1@104	20.32	13.52	0.0225
78	15	20	652666	3789.99	DFT-s-OFDM 256 QAM	50@25	18.08	11.28	0.0134
78	15	20	652666	3789.99	DFT-s-OFDM 256 QAM	1@1	18.27	11.47	0.0140
78	15	20	652666	3789.99	DFT-s-OFDM 256 QAM	1@104	18.48	11.68	0.0147
78	15	20	652666	3789.99	CP-OFDM QPSK	53@26	21.13	14.33	0.0271
78	15	20	652666	3789.99	CP-OFDM QPSK	1@1	21.07	14.27	0.0267

78	15	20	652666	3789.99	CP-OFDM QPSK	1@104	21.2	14.4	0.0275
78	15	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	64@32	22.45	15.65	0.0367
78	15	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	1@1	22.52	15.72	0.0373
78	15	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	1@131	22.4	15.6	0.0363
78	15	25	647500	3712.5	DFT-s-OFDM QPSK	64@32	22.46	15.66	0.0368
78	15	25	647500	3712.5	DFT-s-OFDM QPSK	1@1	22.47	15.67	0.0369
78	15	25	647500	3712.5	DFT-s-OFDM QPSK	1@131	22.45	15.65	0.0367
78	15	25	647500	3712.5	DFT-s-OFDM 16 QAM	64@32	21.44	14.64	0.0291
78	15	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@1	21.7	14.9	0.0309
78	15	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@131	21.74	14.94	0.0312
78	15	25	647500	3712.5	DFT-s-OFDM 64 QAM	64@32	19.89	13.09	0.0204
78	15	25	647500	3712.5	DFT-s-OFDM 64 QAM	1@1	20.07	13.27	0.0212
78	15	25	647500	3712.5	DFT-s-OFDM 64 QAM	1@131	20.16	13.36	0.0217
78	15	25	647500	3712.5	DFT-s-OFDM 256 QAM	64@32	17.94	11.14	0.0130
78	15	25	647500	3712.5	DFT-s-OFDM 256 QAM	1@1	18.24	11.44	0.0139
78	15	25	647500	3712.5	DFT-s-OFDM 256 QAM	1@131	18.3	11.5	0.0141
78	15	25	647500	3712.5	CP-OFDM QPSK	67@33	20.98	14.18	0.0262
78	15	25	647500	3712.5	CP-OFDM QPSK	1@1	21.13	14.33	0.0271
78	15	25	647500	3712.5	CP-OFDM QPSK	1@131	21.11	14.31	0.0270
78	15	25	650000	3750	DFT-s-OFDM PI/2 BPSK	64@32	22.47	15.67	0.0369
78	15	25	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.48	15.68	0.0370
78	15	25	650000	3750	DFT-s-OFDM PI/2 BPSK	1@131	22.5	15.7	0.0372
78	15	25	650000	3750	DFT-s-OFDM QPSK	64@32	22.4	15.6	0.0363

78	15	25	650000	3750	DFT-s-OFDM QPSK	1@1	22.46	15.66	0.0368
78	15	25	650000	3750	DFT-s-OFDM QPSK	1@131	22.47	15.67	0.0369
78	15	25	650000	3750	DFT-s-OFDM 16 QAM	64@32	21.38	14.58	0.0287
78	15	25	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.62	14.82	0.0303
78	15	25	650000	3750	DFT-s-OFDM 16 QAM	1@131	21.79	14.99	0.0316
78	15	25	650000	3750	DFT-s-OFDM 64 QAM	64@32	19.83	13.03	0.0201
78	15	25	650000	3750	DFT-s-OFDM 64 QAM	1@1	20.25	13.45	0.0221
78	15	25	650000	3750	DFT-s-OFDM 64 QAM	1@131	20.28	13.48	0.0223
78	15	25	650000	3750	DFT-s-OFDM 256 QAM	64@32	17.85	11.05	0.0127
78	15	25	650000	3750	DFT-s-OFDM 256 QAM	1@1	18.18	11.38	0.0137
78	15	25	650000	3750	DFT-s-OFDM 256 QAM	1@131	18.33	11.53	0.0142
78	15	25	650000	3750	CP-OFDM QPSK	67@33	20.87	14.07	0.0255
78	15	25	650000	3750	CP-OFDM QPSK	1@1	20.83	14.03	0.0253
78	15	25	650000	3750	CP-OFDM QPSK	1@131	21.22	14.42	0.0277
78	15	25	652500	3787.5	DFT-s-OFDM PI/2 BPSK	64@32	22.56	15.76	0.0377
78	15	25	652500	3787.5	DFT-s-OFDM PI/2 BPSK	1@1	22.51	15.71	0.0372
78	15	25	652500	3787.5	DFT-s-OFDM PI/2 BPSK	1@131	22.54	15.74	0.0375
78	15	25	652500	3787.5	DFT-s-OFDM QPSK	64@32	22.55	15.75	0.0376
78	15	25	652500	3787.5	DFT-s-OFDM QPSK	1@1	22.64	15.84	0.0384
78	15	25	652500	3787.5	DFT-s-OFDM QPSK	1@131	22.74	15.94	0.0393
78	15	25	652500	3787.5	DFT-s-OFDM 16 QAM	64@32	21.53	14.73	0.0297
78	15	25	652500	3787.5	DFT-s-OFDM 16 QAM	1@1	21.94	15.14	0.0327



78	15	25	652500	3787.5	DFT-s-OFDM 16 QAM	1@131	21.97	15.17	0.0329
78	15	25	652500	3787.5	DFT-s-OFDM 64 QAM	64@32	20.02	13.22	0.0210
78	15	25	652500	3787.5	DFT-s-OFDM 64 QAM	1@1	20.23	13.43	0.0220
78	15	25	652500	3787.5	DFT-s-OFDM 64 QAM	1@131	20.44	13.64	0.0231
78	15	25	652500	3787.5	DFT-s-OFDM 256 QAM	64@32	18.02	11.22	0.0132
78	15	25	652500	3787.5	DFT-s-OFDM 256 QAM	1@1	18.67	11.87	0.0154
78	15	25	652500	3787.5	DFT-s-OFDM 256 QAM	1@131	18.56	11.76	0.0150
78	15	25	652500	3787.5	CP-OFDM QPSK	67@33	21.07	14.27	0.0267
78	15	25	652500	3787.5	CP-OFDM QPSK	1@1	21.11	14.31	0.0270
78	15	25	652500	3787.5	CP-OFDM QPSK	1@131	21.37	14.57	0.0286
78	15	30	647667	3715.005	DFT-s-OFDM PI/2 BPSK	80@40	22.61	15.81	0.0381
78	15	30	647667	3715.005	DFT-s-OFDM PI/2 BPSK	1@1	22.48	15.68	0.0370
78	15	30	647667	3715.005	DFT-s-OFDM PI/2 BPSK	1@158	22.45	15.65	0.0367
78	15	30	647667	3715.005	DFT-s-OFDM QPSK	80@40	22.6	15.8	0.0380
78	15	30	647667	3715.005	DFT-s-OFDM QPSK	1@1	22.52	15.72	0.0373
78	15	30	647667	3715.005	DFT-s-OFDM QPSK	1@158	22.51	15.71	0.0372
78	15	30	647667	3715.005	DFT-s-OFDM 16 QAM	80@40	21.56	14.76	0.0299
78	15	30	647667	3715.005	DFT-s-OFDM 16 QAM	1@1	21.67	14.87	0.0307
78	15	30	647667	3715.005	DFT-s-OFDM 16 QAM	1@158	21.66	14.86	0.0306
78	15	30	647667	3715.005	DFT-s-OFDM 64 QAM	80@40	20.05	13.25	0.0211
78	15	30	647667	3715.005	DFT-s-OFDM 64 QAM	1@1	20.13	13.33	0.0215
78	15	30	647667	3715.005	DFT-s-OFDM 64 QAM	1@158	20.17	13.37	0.0217
78	15	30	647667	3715.005	DFT-s-OFDM 256 QAM	80@40	18.04	11.24	0.0133

78	15	30	647667	3715.005	DFT-s-OFDM 256 QAM	1@1	18.07	11.27	0.0134
78	15	30	647667	3715.005	DFT-s-OFDM 256 QAM	1@158	18.12	11.32	0.0136
78	15	30	647667	3715.005	CP-OFDM QPSK	80@40	21.05	14.25	0.0266
78	15	30	647667	3715.005	CP-OFDM QPSK	1@1	21.02	14.22	0.0264
78	15	30	647667	3715.005	CP-OFDM QPSK	1@158	21.07	14.27	0.0267
78	15	30	650000	3750	DFT-s-OFDM PI/2 BPSK	80@40	22.46	15.66	0.0368
78	15	30	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.43	15.63	0.0366
78	15	30	650000	3750	DFT-s-OFDM PI/2 BPSK	1@158	22.48	15.68	0.0370
78	15	30	650000	3750	DFT-s-OFDM QPSK	80@40	22.48	15.68	0.0370
78	15	30	650000	3750	DFT-s-OFDM QPSK	1@1	22.42	15.62	0.0365
78	15	30	650000	3750	DFT-s-OFDM QPSK	1@158	22.51	15.71	0.0372
78	15	30	650000	3750	DFT-s-OFDM 16 QAM	80@40	21.46	14.66	0.0292
78	15	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.55	14.75	0.0299
78	15	30	650000	3750	DFT-s-OFDM 16 QAM	1@158	21.61	14.81	0.0303
78	15	30	650000	3750	DFT-s-OFDM 64 QAM	80@40	19.94	13.14	0.0206
78	15	30	650000	3750	DFT-s-OFDM 64 QAM	1@1	20.05	13.25	0.0211
78	15	30	650000	3750	DFT-s-OFDM 64 QAM	1@158	20.13	13.33	0.0215
78	15	30	650000	3750	DFT-s-OFDM 256 QAM	80@40	17.91	11.11	0.0129
78	15	30	650000	3750	DFT-s-OFDM 256 QAM	1@1	18.07	11.27	0.0134
78	15	30	650000	3750	DFT-s-OFDM 256 QAM	1@158	18.17	11.37	0.0137
78	15	30	650000	3750	CP-OFDM QPSK	80@40	20.9	14.1	0.0257
78	15	30	650000	3750	CP-OFDM QPSK	1@1	20.86	14.06	0.0255
78	15	30	650000	3750	CP-OFDM QPSK	1@158	21.04	14.24	0.0265
78	15	30	652333	3784.995	DFT-s-OFDM PI/2 BPSK	80@40	22.59	15.79	0.0379

78	15	30	652333	3784.995	DFT-s-OFDM PI/2 BPSK	1@1	22.47	15.67	0.0369
78	15	30	652333	3784.995	DFT-s-OFDM PI/2 BPSK	1@158	22.63	15.83	0.0383
78	15	30	652333	3784.995	DFT-s-OFDM QPSK	80@40	22.59	15.79	0.0379
78	15	30	652333	3784.995	DFT-s-OFDM QPSK	1@1	22.5	15.7	0.0372
78	15	30	652333	3784.995	DFT-s-OFDM QPSK	1@158	22.64	15.84	0.0384
78	15	30	652333	3784.995	DFT-s-OFDM 16 QAM	80@40	21.61	14.81	0.0303
78	15	30	652333	3784.995	DFT-s-OFDM 16 QAM	1@1	21.59	14.79	0.0301
78	15	30	652333	3784.995	DFT-s-OFDM 16 QAM	1@158	21.72	14.92	0.0310
78	15	30	652333	3784.995	DFT-s-OFDM 64 QAM	80@40	20.06	13.26	0.0212
78	15	30	652333	3784.995	DFT-s-OFDM 64 QAM	1@1	20.17	13.37	0.0217
78	15	30	652333	3784.995	DFT-s-OFDM 64 QAM	1@158	20.29	13.49	0.0223
78	15	30	652333	3784.995	DFT-s-OFDM 256 QAM	80@40	18.03	11.23	0.0133
78	15	30	652333	3784.995	DFT-s-OFDM 256 QAM	1@1	18.12	11.32	0.0136
78	15	30	652333	3784.995	DFT-s-OFDM 256 QAM	1@158	18.27	11.47	0.0140
78	15	30	652333	3784.995	CP-OFDM QPSK	80@40	21.04	14.24	0.0265
78	15	30	652333	3784.995	CP-OFDM QPSK	1@1	20.92	14.12	0.0258
78	15	30	652333	3784.995	CP-OFDM QPSK	1@158	21.25	14.45	0.0279
78	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	108@54	22.57	15.77	0.0378
78	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	22.47	15.67	0.0369
78	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@214	22.43	15.63	0.0366
78	15	40	648000	3720	DFT-s-OFDM QPSK	108@54	22.54	15.74	0.0375
78	15	40	648000	3720	DFT-s-OFDM QPSK	1@1	22.54	15.74	0.0375
78	15	40	648000	3720	DFT-s-OFDM QPSK	1@214	22.48	15.68	0.0370

78	15	40	648000	3720	DFT-s-OFDM 16 QAM	108@54	21.54	14.74	0.0298
78	15	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	21.73	14.93	0.0311
78	15	40	648000	3720	DFT-s-OFDM 16 QAM	1@214	21.61	14.81	0.0303
78	15	40	648000	3720	DFT-s-OFDM 64 QAM	108@54	20.06	13.26	0.0212
78	15	40	648000	3720	DFT-s-OFDM 64 QAM	1@1	20.19	13.39	0.0218
78	15	40	648000	3720	DFT-s-OFDM 64 QAM	1@214	20.13	13.33	0.0215
78	15	40	648000	3720	DFT-s-OFDM 256 QAM	108@54	18.04	11.24	0.0133
78	15	40	648000	3720	DFT-s-OFDM 256 QAM	1@1	18.15	11.35	0.0136
78	15	40	648000	3720	DFT-s-OFDM 256 QAM	1@214	18.08	11.28	0.0134
78	15	40	648000	3720	CP-OFDM QPSK	108@54	21.01	14.21	0.0264
78	15	40	648000	3720	CP-OFDM QPSK	1@1	20.93	14.13	0.0259
78	15	40	648000	3720	CP-OFDM QPSK	1@214	20.92	14.12	0.0258
78	15	40	650000	3750	DFT-s-OFDM PI/2 BPSK	108@54	22.45	15.65	0.0367
78	15	40	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.41	15.61	0.0364
78	15	40	650000	3750	DFT-s-OFDM PI/2 BPSK	1@214	22.51	15.71	0.0372
78	15	40	650000	3750	DFT-s-OFDM QPSK	108@54	22.47	15.67	0.0369
78	15	40	650000	3750	DFT-s-OFDM QPSK	1@1	22.46	15.66	0.0368
78	15	40	650000	3750	DFT-s-OFDM QPSK	1@214	22.5	15.7	0.0372
78	15	40	650000	3750	DFT-s-OFDM 16 QAM	108@54	21.48	14.68	0.0294
78	15	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.61	14.81	0.0303
78	15	40	650000	3750	DFT-s-OFDM 16 QAM	1@214	21.71	14.91	0.0310
78	15	40	650000	3750	DFT-s-OFDM 64 QAM	108@54	19.96	13.16	0.0207
78	15	40	650000	3750	DFT-s-OFDM 64 QAM	1@1	20.15	13.35	0.0216

78	15	40	650000	3750	DFT-s-OFDM 64 QAM	1@214	20.27	13.47	0.0222
78	15	40	650000	3750	DFT-s-OFDM 256 QAM	108@54	17.95	11.15	0.0130
78	15	40	650000	3750	DFT-s-OFDM 256 QAM	1@1	18.02	11.22	0.0132
78	15	40	650000	3750	DFT-s-OFDM 256 QAM	1@214	18.19	11.39	0.0138
78	15	40	650000	3750	CP-OFDM QPSK	108@54	20.92	14.12	0.0258
78	15	40	650000	3750	CP-OFDM QPSK	1@1	20.9	14.1	0.0257
78	15	40	650000	3750	CP-OFDM QPSK	1@214	20.97	14.17	0.0261
78	15	40	652000	3780	DFT-s-OFDM PI/2 BPSK	108@54	22.61	15.81	0.0381
78	15	40	652000	3780	DFT-s-OFDM PI/2 BPSK	1@1	22.48	15.68	0.0370
78	15	40	652000	3780	DFT-s-OFDM PI/2 BPSK	1@214	22.67	15.87	0.0386
78	15	40	652000	3780	DFT-s-OFDM QPSK	108@54	22.59	15.79	0.0379
78	15	40	652000	3780	DFT-s-OFDM QPSK	1@1	22.46	15.66	0.0368
78	15	40	652000	3780	DFT-s-OFDM QPSK	1@214	22.68	15.88	0.0387
78	15	40	652000	3780	DFT-s-OFDM 16 QAM	108@54	21.65	14.85	0.0305
78	15	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	21.63	14.83	0.0304
78	15	40	652000	3780	DFT-s-OFDM 16 QAM	1@214	21.87	15.07	0.0321
78	15	40	652000	3780	DFT-s-OFDM 64 QAM	108@54	20.11	13.31	0.0214
78	15	40	652000	3780	DFT-s-OFDM 64 QAM	1@1	20.16	13.36	0.0217
78	15	40	652000	3780	DFT-s-OFDM 64 QAM	1@214	20.37	13.57	0.0228
78	15	40	652000	3780	DFT-s-OFDM 256 QAM	108@54	18.12	11.32	0.0136
78	15	40	652000	3780	DFT-s-OFDM 256 QAM	1@1	18.14	11.34	0.0136
78	15	40	652000	3780	DFT-s-OFDM 256 QAM	1@214	18.3	11.5	0.0141
78	15	40	652000	3780	CP-OFDM QPSK	108@54	21.1	14.3	0.0269
78	15	40	652000	3780	CP-OFDM QPSK	1@1	20.87	14.07	0.0255

78	15	40	652000	3780	CP-OFDM QPSK	1@214	21.15	14.35	0.0272
78	15	50	648334	3725.01	DFT-s- OFDM PI/2 BPSK	135@67	22.57	15.77	0.0378
78	15	50	648334	3725.01	DFT-s- OFDM PI/2 BPSK	1@1	22.47	15.67	0.0369
78	15	50	648334	3725.01	DFT-s- OFDM PI/2 BPSK	1@268	22.47	15.67	0.0369
78	15	50	648334	3725.01	DFT-s- OFDM QPSK	135@67	22.54	15.74	0.0375
78	15	50	648334	3725.01	DFT-s- OFDM QPSK	1@1	22.53	15.73	0.0374
78	15	50	648334	3725.01	DFT-s- OFDM QPSK	1@268	22.47	15.67	0.0369
78	15	50	648334	3725.01	DFT-s- OFDM 16 QAM	135@67	21.52	14.72	0.0296
78	15	50	648334	3725.01	DFT-s- OFDM 16 QAM	1@1	21.62	14.82	0.0303
78	15	50	648334	3725.01	DFT-s- OFDM 16 QAM	1@268	21.6	14.8	0.0302
78	15	50	648334	3725.01	DFT-s- OFDM 64 QAM	135@67	19.99	13.19	0.0208
78	15	50	648334	3725.01	DFT-s- OFDM 64 QAM	1@1	20.11	13.31	0.0214
78	15	50	648334	3725.01	DFT-s- OFDM 64 QAM	1@268	20.05	13.25	0.0211
78	15	50	648334	3725.01	DFT-s- OFDM 256 QAM	135@67	18.01	11.21	0.0132
78	15	50	648334	3725.01	DFT-s- OFDM 256 QAM	1@1	18.1	11.3	0.0135
78	15	50	648334	3725.01	DFT-s- OFDM 256 QAM	1@268	18.11	11.31	0.0135
78	15	50	648334	3725.01	CP-OFDM QPSK	135@67	21.03	14.23	0.0265
78	15	50	648334	3725.01	CP-OFDM QPSK	1@1	20.95	14.15	0.0260
78	15	50	648334	3725.01	CP-OFDM QPSK	1@268	21.07	14.27	0.0267
78	15	50	650000	3750	DFT-s- OFDM PI/2 BPSK	135@67	22.48	15.68	0.0370
78	15	50	650000	3750	DFT-s- OFDM PI/2 BPSK	1@1	22.48	15.68	0.0370
78	15	50	650000	3750	DFT-s- OFDM PI/2 BPSK	1@268	22.58	15.78	0.0378
78	15	50	650000	3750	DFT-s- OFDM QPSK	135@67	22.49	15.69	0.0371

78	15	50	650000	3750	DFT-s-OFDM QPSK	1@1	22.5	15.7	0.0372
78	15	50	650000	3750	DFT-s-OFDM QPSK	1@268	22.59	15.79	0.0379
78	15	50	650000	3750	DFT-s-OFDM 16 QAM	135@67	21.48	14.68	0.0294
78	15	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.63	14.83	0.0304
78	15	50	650000	3750	DFT-s-OFDM 16 QAM	1@268	21.72	14.92	0.0310
78	15	50	650000	3750	DFT-s-OFDM 64 QAM	135@67	19.93	13.13	0.0206
78	15	50	650000	3750	DFT-s-OFDM 64 QAM	1@1	20.08	13.28	0.0213
78	15	50	650000	3750	DFT-s-OFDM 64 QAM	1@268	20.24	13.44	0.0221
78	15	50	650000	3750	DFT-s-OFDM 256 QAM	135@67	17.94	11.14	0.0130
78	15	50	650000	3750	DFT-s-OFDM 256 QAM	1@1	18.16	11.36	0.0137
78	15	50	650000	3750	DFT-s-OFDM 256 QAM	1@268	18.31	11.51	0.0142
78	15	50	650000	3750	CP-OFDM QPSK	135@67	20.95	14.15	0.0260
78	15	50	650000	3750	CP-OFDM QPSK	1@1	20.95	14.15	0.0260
78	15	50	650000	3750	CP-OFDM QPSK	1@268	21.15	14.35	0.0272
78	15	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	135@67	22.53	15.73	0.0374
78	15	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	1@1	22.41	15.61	0.0364
78	15	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	1@268	22.63	15.83	0.0383
78	15	50	651666	3774.99	DFT-s-OFDM QPSK	135@67	22.53	15.73	0.0374
78	15	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	22.43	15.63	0.0366
78	15	50	651666	3774.99	DFT-s-OFDM QPSK	1@268	22.66	15.86	0.0385
78	15	50	651666	3774.99	DFT-s-OFDM 16 QAM	135@67	21.52	14.72	0.0296
78	15	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	21.55	14.75	0.0299

<b>78</b>	15	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@268	21.84	15.04	0.0319
<b>78</b>	15	50	651666	3774.99	DFT-s-OFDM 64 QAM	135@67	19.98	13.18	0.0208
<b>78</b>	15	50	651666	3774.99	DFT-s-OFDM 64 QAM	1@1	20.03	13.23	0.0210
<b>78</b>	15	50	651666	3774.99	DFT-s-OFDM 64 QAM	1@268	20.32	13.52	0.0225
<b>78</b>	15	50	651666	3774.99	DFT-s-OFDM 256 QAM	135@67	18.04	11.24	0.0133
<b>78</b>	15	50	651666	3774.99	DFT-s-OFDM 256 QAM	1@1	18.06	11.26	0.0134
<b>78</b>	15	50	651666	3774.99	DFT-s-OFDM 256 QAM	1@268	18.35	11.55	0.0143
<b>78</b>	15	50	651666	3774.99	CP-OFDM QPSK	135@67	21.01	14.21	0.0264
<b>78</b>	15	50	651666	3774.99	CP-OFDM QPSK	1@1	20.84	14.04	0.0254
<b>78</b>	15	50	651666	3774.99	CP-OFDM QPSK	1@268	21.15	14.35	0.0272



# FR1 N78 SCS 30kHz

## Conducted Power and EIRP (ANT gain=-6.8dBi)

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	12@6	22.55	15.75	0.0376
78	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	22.44	15.64	0.0366
78	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@22	22.4	15.6	0.0363
78	30	10	647000	3705	DFT-s-OFDM QPSK	12@6	22.5	15.7	0.0372
78	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	22.4	15.6	0.0363
78	30	10	647000	3705	DFT-s-OFDM QPSK	1@22	22.41	15.61	0.0364
78	30	10	647000	3705	DFT-s-OFDM 16 QAM	12@6	21.49	14.69	0.0294
78	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	21.45	14.65	0.0292
78	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@22	21.41	14.61	0.0289
78	30	10	647000	3705	DFT-s-OFDM 64 QAM	12@6	19.99	13.19	0.0208
78	30	10	647000	3705	DFT-s-OFDM 64 QAM	1@1	19.79	12.99	0.0199
78	30	10	647000	3705	DFT-s-OFDM 64 QAM	1@22	19.77	12.97	0.0198
78	30	10	647000	3705	DFT-s-OFDM 256 QAM	12@6	17.98	11.18	0.0131
78	30	10	647000	3705	DFT-s-OFDM 256 QAM	1@1	18.01	11.21	0.0132
78	30	10	647000	3705	DFT-s-OFDM 256 QAM	1@22	17.99	11.19	0.0132
78	30	10	647000	3705	CP-OFDM QPSK	12@6	21.02	14.22	0.0264
78	30	10	647000	3705	CP-OFDM QPSK	1@1	20.81	14.01	0.0252
78	30	10	647000	3705	CP-OFDM QPSK	1@22	20.79	13.99	0.0251

78	30	10	650000	3750	DFT-s-OFDM PI/2 BPSK	12@6	22.51	15.71	0.0372
78	30	10	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.26	15.46	0.0352
78	30	10	650000	3750	DFT-s-OFDM PI/2 BPSK	1@22	22.25	15.45	0.0351
78	30	10	650000	3750	DFT-s-OFDM QPSK	12@6	22.35	15.55	0.0359
78	30	10	650000	3750	DFT-s-OFDM QPSK	1@1	22.23	15.43	0.0349
78	30	10	650000	3750	DFT-s-OFDM QPSK	1@22	22.27	15.47	0.0352
78	30	10	650000	3750	DFT-s-OFDM 16 QAM	12@6	21.32	14.52	0.0283
78	30	10	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.2	14.4	0.0275
78	30	10	650000	3750	DFT-s-OFDM 16 QAM	1@22	21.22	14.42	0.0277
78	30	10	650000	3750	DFT-s-OFDM 64 QAM	12@6	19.85	13.05	0.0202
78	30	10	650000	3750	DFT-s-OFDM 64 QAM	1@1	19.78	12.98	0.0199
78	30	10	650000	3750	DFT-s-OFDM 64 QAM	1@22	19.58	12.78	0.0190
78	30	10	650000	3750	DFT-s-OFDM 256 QAM	12@6	17.83	11.03	0.0127
78	30	10	650000	3750	DFT-s-OFDM 256 QAM	1@1	17.45	10.65	0.0116
78	30	10	650000	3750	DFT-s-OFDM 256 QAM	1@22	17.63	10.83	0.0121
78	30	10	650000	3750	CP-OFDM QPSK	12@6	20.8	14	0.0251
78	30	10	650000	3750	CP-OFDM QPSK	1@1	20.67	13.87	0.0244
78	30	10	650000	3750	CP-OFDM QPSK	1@22	20.68	13.88	0.0244
78	30	10	653000	3795	DFT-s-OFDM PI/2 BPSK	12@6	22.32	15.52	0.0356
78	30	10	653000	3795	DFT-s-OFDM PI/2 BPSK	1@1	22.53	15.73	0.0374
78	30	10	653000	3795	DFT-s-OFDM PI/2 BPSK	1@22	22.58	15.78	0.0378

78	30	10	653000	3795	DFT-s-OFDM QPSK	12@6	22.69	15.89	0.0388
78	30	10	653000	3795	DFT-s-OFDM QPSK	1@1	22.48	15.68	0.0370
78	30	10	653000	3795	DFT-s-OFDM QPSK	1@22	22.34	15.54	0.0358
78	30	10	653000	3795	DFT-s-OFDM 16 QAM	12@6	21.71	14.91	0.0310
78	30	10	653000	3795	DFT-s-OFDM 16 QAM	1@1	21.48	14.68	0.0294
78	30	10	653000	3795	DFT-s-OFDM 16 QAM	1@22	21.54	14.74	0.0298
78	30	10	653000	3795	DFT-s-OFDM 64 QAM	12@6	20.09	13.29	0.0213
78	30	10	653000	3795	DFT-s-OFDM 64 QAM	1@1	19.93	13.13	0.0206
78	30	10	653000	3795	DFT-s-OFDM 64 QAM	1@22	20.03	13.23	0.0210
78	30	10	653000	3795	DFT-s-OFDM 256 QAM	12@6	18.18	11.38	0.0137
78	30	10	653000	3795	DFT-s-OFDM 256 QAM	1@1	17.96	11.16	0.0131
78	30	10	653000	3795	DFT-s-OFDM 256 QAM	1@22	18.09	11.29	0.0135
78	30	10	653000	3795	CP-OFDM QPSK	12@6	21.12	14.32	0.0270
78	30	10	653000	3795	CP-OFDM QPSK	1@1	21.01	14.21	0.0264
78	30	10	653000	3795	CP-OFDM QPSK	1@22	21.07	14.27	0.0267
78	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	18@9	22.61	15.81	0.0381
78	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@1	22.48	15.68	0.0370
78	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@36	22.39	15.59	0.0362
78	30	15	647168	3707.52	DFT-s-OFDM QPSK	18@9	22.53	15.73	0.0374
78	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	22.44	15.64	0.0366
78	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@36	22.39	15.59	0.0362

78	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	18@9	21.41	14.61	0.0289
78	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	21.38	14.58	0.0287
78	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@36	21.35	14.55	0.0285
78	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	18@9	20.09	13.29	0.0213
78	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	1@1	19.95	13.15	0.0207
78	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	1@36	20.02	13.22	0.0210
78	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	18@9	18.03	11.23	0.0133
78	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	1@1	17.85	11.05	0.0127
78	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	1@36	17.81	11.01	0.0126
78	30	15	647168	3707.52	CP-OFDM QPSK	19@9	21.05	14.25	0.0266
78	30	15	647168	3707.52	CP-OFDM QPSK	1@1	20.84	14.04	0.0254
78	30	15	647168	3707.52	CP-OFDM QPSK	1@36	20.8	14	0.0251
78	30	15	650000	3750	DFT-s-OFDM PI/2 BPSK	18@9	22.36	15.56	0.0360
78	30	15	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.28	15.48	0.0353
78	30	15	650000	3750	DFT-s-OFDM PI/2 BPSK	1@36	22.33	15.53	0.0357
78	30	15	650000	3750	DFT-s-OFDM QPSK	18@9	22.38	15.58	0.0361
78	30	15	650000	3750	DFT-s-OFDM QPSK	1@1	22.21	15.41	0.0348
78	30	15	650000	3750	DFT-s-OFDM QPSK	1@36	22.26	15.46	0.0352
78	30	15	650000	3750	DFT-s-OFDM 16 QAM	18@9	21.25	14.45	0.0279
78	30	15	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.17	14.37	0.0274
78	30	15	650000	3750	DFT-s-OFDM 16 QAM	1@36	21.22	14.42	0.0277

78	30	15	650000	3750	DFT-s-OFDM 64 QAM	18@9	19.93	13.13	0.0206
78	30	15	650000	3750	DFT-s-OFDM 64 QAM	1@1	19.82	13.02	0.0200
78	30	15	650000	3750	DFT-s-OFDM 64 QAM	1@36	19.79	12.99	0.0199
78	30	15	650000	3750	DFT-s-OFDM 256 QAM	18@9	17.8	11	0.0126
78	30	15	650000	3750	DFT-s-OFDM 256 QAM	1@1	17.62	10.82	0.0121
78	30	15	650000	3750	DFT-s-OFDM 256 QAM	1@36	17.69	10.89	0.0123
78	30	15	650000	3750	CP-OFDM QPSK	19@9	20.81	14.01	0.0252
78	30	15	650000	3750	CP-OFDM QPSK	1@1	20.7	13.9	0.0245
78	30	15	650000	3750	CP-OFDM QPSK	1@36	20.7	13.9	0.0245
78	30	15	652832	3792.48	DFT-s-OFDM PI/2 BPSK	18@9	22.61	15.81	0.0381
78	30	15	652832	3792.48	DFT-s-OFDM PI/2 BPSK	1@1	22.52	15.72	0.0373
78	30	15	652832	3792.48	DFT-s-OFDM PI/2 BPSK	1@36	22.65	15.85	0.0385
78	30	15	652832	3792.48	DFT-s-OFDM QPSK	18@9	22.6	15.8	0.0380
78	30	15	652832	3792.48	DFT-s-OFDM QPSK	1@1	22.46	15.66	0.0368
78	30	15	652832	3792.48	DFT-s-OFDM QPSK	1@36	22.6	15.8	0.0380
78	30	15	652832	3792.48	DFT-s-OFDM 16 QAM	18@9	21.54	14.74	0.0298
78	30	15	652832	3792.48	DFT-s-OFDM 16 QAM	1@1	21.19	14.39	0.0275
78	30	15	652832	3792.48	DFT-s-OFDM 16 QAM	1@36	21.52	14.72	0.0296
78	30	15	652832	3792.48	DFT-s-OFDM 64 QAM	18@9	20.18	13.38	0.0218
78	30	15	652832	3792.48	DFT-s-OFDM 64 QAM	1@1	19.86	13.06	0.0202
78	30	15	652832	3792.48	DFT-s-OFDM 64 QAM	1@36	20.03	13.23	0.0210

78	30	15	652832	3792.48	DFT-s-OFDM 256 QAM	18@9	18.07	11.27	0.0134
78	30	15	652832	3792.48	DFT-s-OFDM 256 QAM	1@1	17.91	11.11	0.0129
78	30	15	652832	3792.48	DFT-s-OFDM 256 QAM	1@36	18.03	11.23	0.0133
78	30	15	652832	3792.48	CP-OFDM QPSK	19@9	21.12	14.32	0.0270
78	30	15	652832	3792.48	CP-OFDM QPSK	1@1	21.02	14.22	0.0264
78	30	15	652832	3792.48	CP-OFDM QPSK	1@36	21.11	14.31	0.0270
78	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	25@12	22.58	15.78	0.0378
78	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	22.48	15.68	0.0370
78	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@49	22.4	15.6	0.0363
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	25@12	22.56	15.76	0.0377
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	22.43	15.63	0.0366
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@49	22.36	15.56	0.0360
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	25@12	21.5	14.7	0.0295
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	21.39	14.59	0.0288
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@49	21.27	14.47	0.0280
78	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	25@12	20.03	13.23	0.0210
78	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@1	19.95	13.15	0.0207
78	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@49	19.66	12.86	0.0193
78	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	25@12	17.94	11.14	0.0130
78	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@1	17.81	11.01	0.0126
78	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@49	17.75	10.95	0.0124

78	30	20	647334	3710.01	CP-OFDM QPSK	25@12	21.03	14.23	0.0265
78	30	20	647334	3710.01	CP-OFDM QPSK	1@1	20.91	14.11	0.0258
78	30	20	647334	3710.01	CP-OFDM QPSK	1@49	21.11	14.31	0.0270
78	30	20	650000	3750	DFT-s-OFDM PI/2 BPSK	25@12	22.42	15.62	0.0365
78	30	20	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.24	15.44	0.0350
78	30	20	650000	3750	DFT-s-OFDM PI/2 BPSK	1@49	22.33	15.53	0.0357
78	30	20	650000	3750	DFT-s-OFDM QPSK	25@12	22.43	15.63	0.0366
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@1	22.22	15.42	0.0348
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@49	22.3	15.5	0.0355
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	25@12	21.35	14.55	0.0285
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.2	14.4	0.0275
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@49	21.26	14.46	0.0279
78	30	20	650000	3750	DFT-s-OFDM 64 QAM	25@12	19.9	13.1	0.0204
78	30	20	650000	3750	DFT-s-OFDM 64 QAM	1@1	19.5	12.7	0.0186
78	30	20	650000	3750	DFT-s-OFDM 64 QAM	1@49	19.87	13.07	0.0203
78	30	20	650000	3750	DFT-s-OFDM 256 QAM	25@12	17.86	11.06	0.0128
78	30	20	650000	3750	DFT-s-OFDM 256 QAM	1@1	17.63	10.83	0.0121
78	30	20	650000	3750	DFT-s-OFDM 256 QAM	1@49	17.71	10.91	0.0123
78	30	20	650000	3750	CP-OFDM QPSK	25@12	20.86	14.06	0.0255
78	30	20	650000	3750	CP-OFDM QPSK	1@1	20.71	13.91	0.0246
78	30	20	650000	3750	CP-OFDM QPSK	1@49	20.81	14.01	0.0252
78	30	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	25@12	22.66	15.86	0.0385

78	30	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	1@1	22.5	15.7	0.0372
78	30	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	1@49	22.63	15.83	0.0383
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	25@12	22.67	15.87	0.0386
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	22.44	15.64	0.0366
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@49	22.62	15.82	0.0382
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	25@12	21.6	14.8	0.0302
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	21.4	14.6	0.0288
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@49	21.59	14.79	0.0301
78	30	20	652666	3789.99	DFT-s-OFDM 64 QAM	25@12	20.15	13.35	0.0216
78	30	20	652666	3789.99	DFT-s-OFDM 64 QAM	1@1	19.74	12.94	0.0197
78	30	20	652666	3789.99	DFT-s-OFDM 64 QAM	1@49	20.25	13.45	0.0221
78	30	20	652666	3789.99	DFT-s-OFDM 256 QAM	25@12	18.07	11.27	0.0134
78	30	20	652666	3789.99	DFT-s-OFDM 256 QAM	1@1	17.99	11.19	0.0132
78	30	20	652666	3789.99	DFT-s-OFDM 256 QAM	1@49	17.85	11.05	0.0127
78	30	20	652666	3789.99	CP-OFDM QPSK	25@12	21.12	14.32	0.0270
78	30	20	652666	3789.99	CP-OFDM QPSK	1@1	20.95	14.15	0.0260
78	30	20	652666	3789.99	CP-OFDM QPSK	1@49	21.13	14.33	0.0271
78	30	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	32@16	22.47	15.67	0.0369
78	30	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	1@1	22.41	15.61	0.0364
78	30	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	1@63	22.36	15.56	0.0360
78	30	25	647500	3712.5	DFT-s-OFDM QPSK	32@16	22.47	15.67	0.0369



78	30	25	647500	3712.5	DFT-s-OFDM QPSK	1@1	22.39	15.59	0.0362
78	30	25	647500	3712.5	DFT-s-OFDM QPSK	1@63	22.37	15.57	0.0361
78	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	32@16	21.43	14.63	0.0290
78	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@1	21.28	14.48	0.0281
78	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@63	21.4	14.6	0.0288
78	30	25	647500	3712.5	DFT-s-OFDM 64 QAM	32@16	19.93	13.13	0.0206
78	30	25	647500	3712.5	DFT-s-OFDM 64 QAM	1@1	20.11	13.31	0.0214
78	30	25	647500	3712.5	DFT-s-OFDM 64 QAM	1@63	19.95	13.15	0.0207
78	30	25	647500	3712.5	DFT-s-OFDM 256 QAM	32@16	18.03	11.23	0.0133
78	30	25	647500	3712.5	DFT-s-OFDM 256 QAM	1@1	17.69	10.89	0.0123
78	30	25	647500	3712.5	DFT-s-OFDM 256 QAM	1@63	17.83	11.03	0.0127
78	30	25	647500	3712.5	CP-OFDM QPSK	33@16	20.97	14.17	0.0261
78	30	25	647500	3712.5	CP-OFDM QPSK	1@1	20.88	14.08	0.0256
78	30	25	647500	3712.5	CP-OFDM QPSK	1@63	20.9	14.1	0.0257
78	30	25	650000	3750	DFT-s-OFDM PI/2 BPSK	32@16	22.43	15.63	0.0366
78	30	25	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.38	15.58	0.0361
78	30	25	650000	3750	DFT-s-OFDM PI/2 BPSK	1@63	22.41	15.61	0.0364
78	30	25	650000	3750	DFT-s-OFDM QPSK	32@16	22.44	15.64	0.0366
78	30	25	650000	3750	DFT-s-OFDM QPSK	1@1	22.25	15.45	0.0351
78	30	25	650000	3750	DFT-s-OFDM QPSK	1@63	22.27	15.47	0.0352
78	30	25	650000	3750	DFT-s-OFDM 16 QAM	32@16	21.39	14.59	0.0288

78	30	25	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.31	14.51	0.0282
78	30	25	650000	3750	DFT-s-OFDM 16 QAM	1@63	21.39	14.59	0.0288
78	30	25	650000	3750	DFT-s-OFDM 64 QAM	32@16	19.85	13.05	0.0202
78	30	25	650000	3750	DFT-s-OFDM 64 QAM	1@1	19.38	12.58	0.0181
78	30	25	650000	3750	DFT-s-OFDM 64 QAM	1@63	19.94	13.14	0.0206
78	30	25	650000	3750	DFT-s-OFDM 256 QAM	32@16	17.95	11.15	0.0130
78	30	25	650000	3750	DFT-s-OFDM 256 QAM	1@1	17.69	10.89	0.0123
78	30	25	650000	3750	DFT-s-OFDM 256 QAM	1@63	17.78	10.98	0.0125
78	30	25	650000	3750	CP-OFDM QPSK	33@16	20.87	14.07	0.0255
78	30	25	650000	3750	CP-OFDM QPSK	1@1	20.82	14.02	0.0252
78	30	25	650000	3750	CP-OFDM QPSK	1@63	20.9	14.1	0.0257
78	30	25	652500	3787.5	DFT-s-OFDM PI/2 BPSK	32@16	22.58	15.78	0.0378
78	30	25	652500	3787.5	DFT-s-OFDM PI/2 BPSK	1@1	22.5	15.7	0.0372
78	30	25	652500	3787.5	DFT-s-OFDM PI/2 BPSK	1@63	22.55	15.75	0.0376
78	30	25	652500	3787.5	DFT-s-OFDM QPSK	32@16	22.61	15.81	0.0381
78	30	25	652500	3787.5	DFT-s-OFDM QPSK	1@1	22.51	15.71	0.0372
78	30	25	652500	3787.5	DFT-s-OFDM QPSK	1@63	22.55	15.75	0.0376
78	30	25	652500	3787.5	DFT-s-OFDM 16 QAM	32@16	21.52	14.72	0.0296
78	30	25	652500	3787.5	DFT-s-OFDM 16 QAM	1@1	21.47	14.67	0.0293
78	30	25	652500	3787.5	DFT-s-OFDM 16 QAM	1@63	21.51	14.71	0.0296
78	30	25	652500	3787.5	DFT-s-OFDM 64 QAM	32@16	20	13.2	0.0209

78	30	25	652500	3787.5	DFT-s-OFDM 64 QAM	1@1	20.04	13.24	0.0211
78	30	25	652500	3787.5	DFT-s-OFDM 64 QAM	1@63	19.86	13.06	0.0202
78	30	25	652500	3787.5	DFT-s-OFDM 256 QAM	32@16	18.04	11.24	0.0133
78	30	25	652500	3787.5	DFT-s-OFDM 256 QAM	1@1	17.85	11.05	0.0127
78	30	25	652500	3787.5	DFT-s-OFDM 256 QAM	1@63	17.82	11.02	0.0126
78	30	25	652500	3787.5	CP-OFDM QPSK	33@16	20.98	14.18	0.0262
78	30	25	652500	3787.5	CP-OFDM QPSK	1@1	20.9	14.1	0.0257
78	30	25	652500	3787.5	CP-OFDM QPSK	1@63	21.04	14.24	0.0265
78	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	36@18	22.69	15.89	0.0388
78	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	22.47	15.67	0.0369
78	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@76	22.49	15.69	0.0371
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	36@18	22.6	15.8	0.0380
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	22.42	15.62	0.0365
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@76	22.44	15.64	0.0366
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	36@18	21.55	14.75	0.0299
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	21.3	14.5	0.0282
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@76	21.43	14.63	0.0290
78	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	36@18	20.07	13.27	0.0212
78	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	1@1	20.08	13.28	0.0213
78	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	1@76	19.7	12.9	0.0195
78	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	36@18	18.1	11.3	0.0135

78	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	1@1	17.99	11.19	0.0132
78	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	1@76	18.02	11.22	0.0132
78	30	30	647668	3715.02	CP-OFDM QPSK	39@19	21.06	14.26	0.0267
78	30	30	647668	3715.02	CP-OFDM QPSK	1@1	20.94	14.14	0.0259
78	30	30	647668	3715.02	CP-OFDM QPSK	1@76	20.84	14.04	0.0254
78	30	30	650000	3750	DFT-s-OFDM PI/2 BPSK	36@18	22.51	15.71	0.0372
78	30	30	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.42	15.62	0.0365
78	30	30	650000	3750	DFT-s-OFDM PI/2 BPSK	1@76	22.5	15.7	0.0372
78	30	30	650000	3750	DFT-s-OFDM QPSK	36@18	22.48	15.68	0.0370
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@1	22.31	15.51	0.0356
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@76	22.48	15.68	0.0370
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	36@18	21.48	14.68	0.0294
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.4	14.6	0.0288
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@76	21.48	14.68	0.0294
78	30	30	650000	3750	DFT-s-OFDM 64 QAM	36@18	19.99	13.19	0.0208
78	30	30	650000	3750	DFT-s-OFDM 64 QAM	1@1	19.88	13.08	0.0203
78	30	30	650000	3750	DFT-s-OFDM 64 QAM	1@76	20.03	13.23	0.0210
78	30	30	650000	3750	DFT-s-OFDM 256 QAM	36@18	17.96	11.16	0.0131
78	30	30	650000	3750	DFT-s-OFDM 256 QAM	1@1	17.97	11.17	0.0131
78	30	30	650000	3750	DFT-s-OFDM 256 QAM	1@76	17.82	11.02	0.0126
78	30	30	650000	3750	CP-OFDM QPSK	39@19	20.97	14.17	0.0261
78	30	30	650000	3750	CP-OFDM QPSK	1@1	20.9	14.1	0.0257

78	30	30	650000	3750	CP-OFDM QPSK	1@76	20.85	14.05	0.0254
78	30	30	652332	3784.98	DFT-s-OFDM PI/2 BPSK	36@18	22.61	15.81	0.0381
78	30	30	652332	3784.98	DFT-s-OFDM PI/2 BPSK	1@1	22.49	15.69	0.0371
78	30	30	652332	3784.98	DFT-s-OFDM PI/2 BPSK	1@76	22.55	15.75	0.0376
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	36@18	22.55	15.75	0.0376
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@1	22.49	15.69	0.0371
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@76	22.57	15.77	0.0378
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	36@18	21.54	14.74	0.0298
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@1	21.49	14.69	0.0294
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@76	21.67	14.87	0.0307
78	30	30	652332	3784.98	DFT-s-OFDM 64 QAM	36@18	20.09	13.29	0.0213
78	30	30	652332	3784.98	DFT-s-OFDM 64 QAM	1@1	19.77	12.97	0.0198
78	30	30	652332	3784.98	DFT-s-OFDM 64 QAM	1@76	20.15	13.35	0.0216
78	30	30	652332	3784.98	DFT-s-OFDM 256 QAM	36@18	18.08	11.28	0.0134
78	30	30	652332	3784.98	DFT-s-OFDM 256 QAM	1@1	17.95	11.15	0.0130
78	30	30	652332	3784.98	DFT-s-OFDM 256 QAM	1@76	18.14	11.34	0.0136
78	30	30	652332	3784.98	CP-OFDM QPSK	39@19	21.08	14.28	0.0268
78	30	30	652332	3784.98	CP-OFDM QPSK	1@1	20.95	14.15	0.0260
78	30	30	652332	3784.98	CP-OFDM QPSK	1@76	20.99	14.19	0.0262
78	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	50@25	22.56	15.76	0.0377
78	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	22.46	15.66	0.0368

78	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@104	22.39	15.59	0.0362
78	30	40	648000	3720	DFT-s-OFDM QPSK	50@25	22.54	15.74	0.0375
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	22.42	15.62	0.0365
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@104	22.37	15.57	0.0361
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	50@25	21.47	14.67	0.0293
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	21.39	14.59	0.0288
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@104	21.28	14.48	0.0281
78	30	40	648000	3720	DFT-s-OFDM 64 QAM	50@25	20.01	13.21	0.0209
78	30	40	648000	3720	DFT-s-OFDM 64 QAM	1@1	19.74	12.94	0.0197
78	30	40	648000	3720	DFT-s-OFDM 64 QAM	1@104	19.63	12.83	0.0192
78	30	40	648000	3720	DFT-s-OFDM 256 QAM	50@25	18.03	11.23	0.0133
78	30	40	648000	3720	DFT-s-OFDM 256 QAM	1@1	17.82	11.02	0.0126
78	30	40	648000	3720	DFT-s-OFDM 256 QAM	1@104	17.81	11.01	0.0126
78	30	40	648000	3720	CP-OFDM QPSK	53@26	21.03	14.23	0.0265
78	30	40	648000	3720	CP-OFDM QPSK	1@1	20.91	14.11	0.0258
78	30	40	648000	3720	CP-OFDM QPSK	1@104	20.86	14.06	0.0255
78	30	40	650000	3750	DFT-s-OFDM PI/2 BPSK	50@25	22.43	15.63	0.0366
78	30	40	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.4	15.6	0.0363
78	30	40	650000	3750	DFT-s-OFDM PI/2 BPSK	1@104	22.45	15.65	0.0367
78	30	40	650000	3750	DFT-s-OFDM QPSK	50@25	22.45	15.65	0.0367
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@1	22.35	15.55	0.0359

78	30	40	650000	3750	DFT-s-OFDM QPSK	1@104	22.43	15.63	0.0366
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	50@25	21.38	14.58	0.0287
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.33	14.53	0.0284
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@104	21.43	14.63	0.0290
78	30	40	650000	3750	DFT-s-OFDM 64 QAM	50@25	19.86	13.06	0.0202
78	30	40	650000	3750	DFT-s-OFDM 64 QAM	1@1	19.92	13.12	0.0205
78	30	40	650000	3750	DFT-s-OFDM 64 QAM	1@104	20.07	13.27	0.0212
78	30	40	650000	3750	DFT-s-OFDM 256 QAM	50@25	17.91	11.11	0.0129
78	30	40	650000	3750	DFT-s-OFDM 256 QAM	1@1	17.68	10.88	0.0122
78	30	40	650000	3750	DFT-s-OFDM 256 QAM	1@104	17.95	11.15	0.0130
78	30	40	650000	3750	CP-OFDM QPSK	53@26	20.9	14.1	0.0257
78	30	40	650000	3750	CP-OFDM QPSK	1@1	20.83	14.03	0.0253
78	30	40	650000	3750	CP-OFDM QPSK	1@104	20.96	14.16	0.0261
78	30	40	652000	3780	DFT-s-OFDM PI/2 BPSK	50@25	22.54	15.74	0.0375
78	30	40	652000	3780	DFT-s-OFDM PI/2 BPSK	1@1	22.44	15.64	0.0366
78	30	40	652000	3780	DFT-s-OFDM PI/2 BPSK	1@104	22.6	15.8	0.0380
78	30	40	652000	3780	DFT-s-OFDM QPSK	50@25	22.54	15.74	0.0375
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@1	22.37	15.57	0.0361
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@104	22.54	15.74	0.0375
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	50@25	21.49	14.69	0.0294
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	21.37	14.57	0.0286

78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@104	21.52	14.72	0.0296
78	30	40	652000	3780	DFT-s-OFDM 64 QAM	50@25	19.97	13.17	0.0207
78	30	40	652000	3780	DFT-s-OFDM 64 QAM	1@1	19.94	13.14	0.0206
78	30	40	652000	3780	DFT-s-OFDM 64 QAM	1@104	20.18	13.38	0.0218
78	30	40	652000	3780	DFT-s-OFDM 256 QAM	50@25	18.07	11.27	0.0134
78	30	40	652000	3780	DFT-s-OFDM 256 QAM	1@1	17.83	11.03	0.0127
78	30	40	652000	3780	DFT-s-OFDM 256 QAM	1@104	18.03	11.23	0.0133
78	30	40	652000	3780	CP-OFDM QPSK	53@26	21.05	14.25	0.0266
78	30	40	652000	3780	CP-OFDM QPSK	1@1	20.84	14.04	0.0254
78	30	40	652000	3780	CP-OFDM QPSK	1@104	21.09	14.29	0.0269
78	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	64@32	22.54	15.74	0.0375
78	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	22.51	15.71	0.0372
78	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@131	22.45	15.65	0.0367
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	64@32	22.48	15.68	0.0370
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	22.43	15.63	0.0366
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@131	22.36	15.56	0.0360
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	64@32	21.48	14.68	0.0294
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	21.41	14.61	0.0289
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@131	21.29	14.49	0.0281
78	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	64@32	19.98	13.18	0.0208
78	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@1	19.79	12.99	0.0199



78	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@131	19.93	13.13	0.0206
78	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	64@32	17.98	11.18	0.0131
78	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@1	17.94	11.14	0.0130
78	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@131	17.81	11.01	0.0126
78	30	50	648334	3725.01	CP-OFDM QPSK	67@33	20.99	14.19	0.0262
78	30	50	648334	3725.01	CP-OFDM QPSK	1@1	20.94	14.14	0.0259
78	30	50	648334	3725.01	CP-OFDM QPSK	1@131	20.79	13.99	0.0251
78	30	50	650000	3750	DFT-s-OFDM PI/2 BPSK	64@32	22.44	15.64	0.0366
78	30	50	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.44	15.64	0.0366
78	30	50	650000	3750	DFT-s-OFDM PI/2 BPSK	1@131	22.47	15.67	0.0369
78	30	50	650000	3750	DFT-s-OFDM QPSK	64@32	22.43	15.63	0.0366
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@1	22.43	15.63	0.0366
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@131	22.45	15.65	0.0367
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	64@32	21.41	14.61	0.0289
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.34	14.54	0.0284
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@131	21.39	14.59	0.0288
78	30	50	650000	3750	DFT-s-OFDM 64 QAM	64@32	19.93	13.13	0.0206
78	30	50	650000	3750	DFT-s-OFDM 64 QAM	1@1	20.02	13.22	0.0210
78	30	50	650000	3750	DFT-s-OFDM 64 QAM	1@131	19.74	12.94	0.0197
78	30	50	650000	3750	DFT-s-OFDM 256 QAM	64@32	17.95	11.15	0.0130
78	30	50	650000	3750	DFT-s-OFDM 256 QAM	1@1	17.83	11.03	0.0127

78	30	50	650000	3750	DFT-s-OFDM 256 QAM	1@131	18.02	11.22	0.0132
78	30	50	650000	3750	CP-OFDM QPSK	67@33	20.89	14.09	0.0256
78	30	50	650000	3750	CP-OFDM QPSK	1@1	20.88	14.08	0.0256
78	30	50	650000	3750	CP-OFDM QPSK	1@131	20.98	14.18	0.0262
78	30	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	64@32	22.5	15.7	0.0372
78	30	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	1@1	22.35	15.55	0.0359
78	30	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	1@131	22.53	15.73	0.0374
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	64@32	22.47	15.67	0.0369
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	22.32	15.52	0.0356
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@131	22.57	15.77	0.0378
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	64@32	21.4	14.6	0.0288
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	21.34	14.54	0.0284
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@131	21.53	14.73	0.0297
78	30	50	651666	3774.99	DFT-s-OFDM 64 QAM	64@32	19.95	13.15	0.0207
78	30	50	651666	3774.99	DFT-s-OFDM 64 QAM	1@1	19.52	12.72	0.0187
78	30	50	651666	3774.99	DFT-s-OFDM 64 QAM	1@131	19.87	13.07	0.0203
78	30	50	651666	3774.99	DFT-s-OFDM 256 QAM	64@32	17.94	11.14	0.0130
78	30	50	651666	3774.99	DFT-s-OFDM 256 QAM	1@1	17.9	11.1	0.0129
78	30	50	651666	3774.99	DFT-s-OFDM 256 QAM	1@131	18.14	11.34	0.0136
78	30	50	651666	3774.99	CP-OFDM QPSK	67@33	20.95	14.15	0.0260
78	30	50	651666	3774.99	CP-OFDM QPSK	1@1	20.76	13.96	0.0249
78	30	50	651666	3774.99	CP-OFDM QPSK	1@131	20.98	14.18	0.0262

78	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	81@40	22.45	15.65	0.0367
78	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	22.4	15.6	0.0363
78	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@160	22.31	15.51	0.0356
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	81@40	22.42	15.62	0.0365
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	22.32	15.52	0.0356
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@160	22.32	15.52	0.0356
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	81@40	21.4	14.6	0.0288
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	21.1	14.3	0.0269
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@160	21.3	14.5	0.0282
78	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	81@40	19.89	13.09	0.0204
78	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	1@1	19.99	13.19	0.0208
78	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	1@160	19.84	13.04	0.0201
78	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	81@40	17.85	11.05	0.0127
78	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	1@1	17.95	11.15	0.0130
78	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	1@160	17.85	11.05	0.0127
78	30	60	648668	3730.02	CP-OFDM QPSK	81@40	20.85	14.05	0.0254
78	30	60	648668	3730.02	CP-OFDM QPSK	1@1	20.82	14.02	0.0252
78	30	60	648668	3730.02	CP-OFDM QPSK	1@160	20.81	14.01	0.0252
78	30	60	650000	3750	DFT-s-OFDM PI/2 BPSK	81@40	22.41	15.61	0.0364
78	30	60	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.44	15.64	0.0366
78	30	60	650000	3750	DFT-s-OFDM PI/2 BPSK	1@160	22.48	15.68	0.0370

78	30	60	650000	3750	DFT-s-OFDM QPSK	81@40	22.36	15.56	0.0360
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@1	22.36	15.56	0.0360
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@160	22.4	15.6	0.0363
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	81@40	21.35	14.55	0.0285
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.4	14.6	0.0288
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@160	21.45	14.65	0.0292
78	30	60	650000	3750	DFT-s-OFDM 64 QAM	81@40	19.91	13.11	0.0205
78	30	60	650000	3750	DFT-s-OFDM 64 QAM	1@1	20.01	13.21	0.0209
78	30	60	650000	3750	DFT-s-OFDM 64 QAM	1@160	19.98	13.18	0.0208
78	30	60	650000	3750	DFT-s-OFDM 256 QAM	81@40	17.87	11.07	0.0128
78	30	60	650000	3750	DFT-s-OFDM 256 QAM	1@1	17.84	11.04	0.0127
78	30	60	650000	3750	DFT-s-OFDM 256 QAM	1@160	17.79	10.99	0.0126
78	30	60	650000	3750	CP-OFDM QPSK	81@40	20.91	14.11	0.0258
78	30	60	650000	3750	CP-OFDM QPSK	1@1	20.86	14.06	0.0255
78	30	60	650000	3750	CP-OFDM QPSK	1@160	20.92	14.12	0.0258
78	30	60	651332	3769.98	DFT-s-OFDM PI/2 BPSK	81@40	22.48	15.68	0.0370
78	30	60	651332	3769.98	DFT-s-OFDM PI/2 BPSK	1@1	22.29	15.49	0.0354
78	30	60	651332	3769.98	DFT-s-OFDM PI/2 BPSK	1@160	22.54	15.74	0.0375
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	81@40	22.43	15.63	0.0366
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@1	22.25	15.45	0.0351
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@160	22.49	15.69	0.0371

78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	81@40	21.37	14.57	0.0286
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@1	21.24	14.44	0.0278
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@160	21.55	14.75	0.0299
78	30	60	651332	3769.98	DFT-s-OFDM 64 QAM	81@40	20	13.2	0.0209
78	30	60	651332	3769.98	DFT-s-OFDM 64 QAM	1@1	19.89	13.09	0.0204
78	30	60	651332	3769.98	DFT-s-OFDM 64 QAM	1@160	20.05	13.25	0.0211
78	30	60	651332	3769.98	DFT-s-OFDM 256 QAM	81@40	17.96	11.16	0.0131
78	30	60	651332	3769.98	DFT-s-OFDM 256 QAM	1@1	17.72	10.92	0.0124
78	30	60	651332	3769.98	DFT-s-OFDM 256 QAM	1@160	18.02	11.22	0.0132
78	30	60	651332	3769.98	CP-OFDM QPSK	81@40	20.93	14.13	0.0259
78	30	60	651332	3769.98	CP-OFDM QPSK	1@1	20.75	13.95	0.0248
78	30	60	651332	3769.98	CP-OFDM QPSK	1@160	20.95	14.15	0.0260
78	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	90@45	22.44	15.64	0.0366
78	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@1	22.31	15.51	0.0356
78	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@187	22.32	15.52	0.0356
78	30	70	649000	3735	DFT-s-OFDM QPSK	90@45	22.38	15.58	0.0361
78	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	22.31	15.51	0.0356
78	30	70	649000	3735	DFT-s-OFDM QPSK	1@187	22.25	15.45	0.0351
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	90@45	21.39	14.59	0.0288
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	21.25	14.45	0.0279
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@187	21.21	14.41	0.0276

78	30	70	649000	3735	DFT-s-OFDM 64 QAM	90@45	19.89	13.09	0.0204
78	30	70	649000	3735	DFT-s-OFDM 64 QAM	1@1	19.78	12.98	0.0199
78	30	70	649000	3735	DFT-s-OFDM 64 QAM	1@187	19.8	13	0.0200
78	30	70	649000	3735	DFT-s-OFDM 256 QAM	90@45	17.8	11	0.0126
78	30	70	649000	3735	DFT-s-OFDM 256 QAM	1@1	17.78	10.98	0.0125
78	30	70	649000	3735	DFT-s-OFDM 256 QAM	1@187	17.87	11.07	0.0128
78	30	70	649000	3735	CP-OFDM QPSK	95@47	20.86	14.06	0.0255
78	30	70	649000	3735	CP-OFDM QPSK	1@1	20.73	13.93	0.0247
78	30	70	649000	3735	CP-OFDM QPSK	1@187	20.76	13.96	0.0249
78	30	70	650000	3750	DFT-s-OFDM PI/2 BPSK	90@45	22.37	15.57	0.0361
78	30	70	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.3	15.5	0.0355
78	30	70	650000	3750	DFT-s-OFDM PI/2 BPSK	1@187	22.34	15.54	0.0358
78	30	70	650000	3750	DFT-s-OFDM QPSK	90@45	22.34	15.54	0.0358
78	30	70	650000	3750	DFT-s-OFDM QPSK	1@1	22.23	15.43	0.0349
78	30	70	650000	3750	DFT-s-OFDM QPSK	1@187	22.27	15.47	0.0352
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	90@45	21.29	14.49	0.0281
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.21	14.41	0.0276
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	1@187	21.25	14.45	0.0279
78	30	70	650000	3750	DFT-s-OFDM 64 QAM	90@45	19.82	13.02	0.0200
78	30	70	650000	3750	DFT-s-OFDM 64 QAM	1@1	19.86	13.06	0.0202
78	30	70	650000	3750	DFT-s-OFDM 64 QAM	1@187	19.91	13.11	0.0205

78	30	70	650000	3750	DFT-s-OFDM 256 QAM	90@45	17.76	10.96	0.0125
78	30	70	650000	3750	DFT-s-OFDM 256 QAM	1@1	17.73	10.93	0.0124
78	30	70	650000	3750	DFT-s-OFDM 256 QAM	1@187	17.74	10.94	0.0124
78	30	70	650000	3750	CP-OFDM QPSK	95@47	20.79	13.99	0.0251
78	30	70	650000	3750	CP-OFDM QPSK	1@1	20.72	13.92	0.0247
78	30	70	650000	3750	CP-OFDM QPSK	1@187	20.8	14	0.0251
78	30	70	651000	3765	DFT-s-OFDM PI/2 BPSK	90@45	22.38	15.58	0.0361
78	30	70	651000	3765	DFT-s-OFDM PI/2 BPSK	1@1	22.24	15.44	0.0350
78	30	70	651000	3765	DFT-s-OFDM PI/2 BPSK	1@187	22.53	15.73	0.0374
78	30	70	651000	3765	DFT-s-OFDM QPSK	90@45	22.34	15.54	0.0358
78	30	70	651000	3765	DFT-s-OFDM QPSK	1@1	22.2	15.4	0.0347
78	30	70	651000	3765	DFT-s-OFDM QPSK	1@187	22.4	15.6	0.0363
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	90@45	21.32	14.52	0.0283
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	1@1	21.14	14.34	0.0272
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	1@187	21.4	14.6	0.0288
78	30	70	651000	3765	DFT-s-OFDM 64 QAM	90@45	19.84	13.04	0.0201
78	30	70	651000	3765	DFT-s-OFDM 64 QAM	1@1	19.79	12.99	0.0199
78	30	70	651000	3765	DFT-s-OFDM 64 QAM	1@187	20.05	13.25	0.0211
78	30	70	651000	3765	DFT-s-OFDM 256 QAM	90@45	17.8	11	0.0126
78	30	70	651000	3765	DFT-s-OFDM 256 QAM	1@1	17.6	10.8	0.0120
78	30	70	651000	3765	DFT-s-OFDM 256 QAM	1@187	17.85	11.05	0.0127

78	30	70	651000	3765	CP-OFDM QPSK	95@47	20.88	14.08	0.0256
78	30	70	651000	3765	CP-OFDM QPSK	1@1	20.69	13.89	0.0245
78	30	70	651000	3765	CP-OFDM QPSK	1@187	20.96	14.16	0.0261
78	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	108@54	22.38	15.58	0.0361
78	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@1	22.31	15.51	0.0356
78	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@215	22.32	15.52	0.0356
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	108@54	22.38	15.58	0.0361
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	22.23	15.43	0.0349
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@215	22.32	15.52	0.0356
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	108@54	21.36	14.56	0.0286
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	21.21	14.41	0.0276
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@215	21.26	14.46	0.0279
78	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	108@54	19.82	13.02	0.0200
78	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	1@1	19.88	13.08	0.0203
78	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	1@215	19.85	13.05	0.0202
78	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	108@54	17.87	11.07	0.0128
78	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	1@1	17.8	11	0.0126
78	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	1@215	17.86	11.06	0.0128
78	30	80	649334	3740.01	CP-OFDM QPSK	109@54	20.85	14.05	0.0254
78	30	80	649334	3740.01	CP-OFDM QPSK	1@1	20.76	13.96	0.0249
78	30	80	649334	3740.01	CP-OFDM QPSK	1@215	20.78	13.98	0.0250
78	30	80	650000	3740.01	DFT-s-OFDM PI/2 BPSK	108@54	22.37	15.57	0.0361



78	30	80	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.34	15.54	0.0358
78	30	80	650000	3750	DFT-s-OFDM PI/2 BPSK	1@215	22.4	15.6	0.0363
78	30	80	650000	3750	DFT-s-OFDM QPSK	108@54	22.3	15.5	0.0355
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@1	22.29	15.49	0.0354
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@215	22.33	15.53	0.0357
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	108@54	21.3	14.5	0.0282
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.21	14.41	0.0276
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@215	21.34	14.54	0.0284
78	30	80	650000	3750	DFT-s-OFDM 64 QAM	108@54	19.81	13.01	0.0200
78	30	80	650000	3750	DFT-s-OFDM 64 QAM	1@1	19.72	12.92	0.0196
78	30	80	650000	3750	DFT-s-OFDM 64 QAM	1@215	19.81	13.01	0.0200
78	30	80	650000	3750	DFT-s-OFDM 256 QAM	108@54	17.8	11	0.0126
78	30	80	650000	3750	DFT-s-OFDM 256 QAM	1@1	17.92	11.12	0.0129
78	30	80	650000	3750	DFT-s-OFDM 256 QAM	1@215	18.07	11.27	0.0134
78	30	80	650000	3750	CP-OFDM QPSK	109@54	20.8	14	0.0251
78	30	80	650000	3750	CP-OFDM QPSK	1@1	20.8	14	0.0251
78	30	80	650000	3750	CP-OFDM QPSK	1@215	20.87	14.07	0.0255
78	30	80	650666	3750	DFT-s-OFDM PI/2 BPSK	108@54	22.31	15.51	0.0356
78	30	80	650666	3759.99	DFT-s-OFDM PI/2 BPSK	1@1	22.36	15.56	0.0360
78	30	80	650666	3759.99	DFT-s-OFDM PI/2 BPSK	1@215	22.51	15.71	0.0372
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	108@54	22.32	15.52	0.0356

78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@1	22.13	15.33	0.0341
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@215	22.39	15.59	0.0362
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	108@54	21.32	14.52	0.0283
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@1	21.17	14.37	0.0274
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@215	21.42	14.62	0.0290
78	30	80	650666	3759.99	DFT-s-OFDM 64 QAM	108@54	19.85	13.05	0.0202
78	30	80	650666	3759.99	DFT-s-OFDM 64 QAM	1@1	19.75	12.95	0.0197
78	30	80	650666	3759.99	DFT-s-OFDM 64 QAM	1@215	19.97	13.17	0.0207
78	30	80	650666	3759.99	DFT-s-OFDM 256 QAM	108@54	17.77	10.97	0.0125
78	30	80	650666	3759.99	DFT-s-OFDM 256 QAM	1@1	17.7	10.9	0.0123
78	30	80	650666	3759.99	DFT-s-OFDM 256 QAM	1@215	17.66	10.86	0.0122
78	30	80	650666	3759.99	CP-OFDM QPSK	109@54	20.79	13.99	0.0251
78	30	80	650666	3759.99	CP-OFDM QPSK	1@1	20.72	13.92	0.0247
78	30	80	650666	3759.99	CP-OFDM QPSK	1@215	20.94	14.14	0.0259
78	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	120@60	22.46	15.66	0.0368
78	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	22.32	15.52	0.0356
78	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@243	22.42	15.62	0.0365
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	120@60	22.38	15.58	0.0361
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	22.27	15.47	0.0352
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@243	22.32	15.52	0.0356
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	120@60	21.38	14.58	0.0287

78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	21.21	14.41	0.0276
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@243	21.33	14.53	0.0284
78	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	120@60	19.86	13.06	0.0202
78	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	1@1	19.74	12.94	0.0197
78	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	1@243	19.89	13.09	0.0204
78	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	120@60	17.78	10.98	0.0125
78	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	1@1	17.43	10.63	0.0116
78	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	1@243	17.59	10.79	0.0120
78	30	90	649668	3745.02	CP-OFDM QPSK	123@61	20.8	14	0.0251
78	30	90	649668	3745.02	CP-OFDM QPSK	1@1	20.75	13.95	0.0248
78	30	90	649668	3745.02	CP-OFDM QPSK	1@243	20.84	14.04	0.0254
78	30	90	650000	3750	DFT-s-OFDM PI/2 BPSK	120@60	22.37	15.57	0.0361
78	30	90	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.31	15.51	0.0356
78	30	90	650000	3750	DFT-s-OFDM PI/2 BPSK	1@243	22.43	15.63	0.0366
78	30	90	650000	3750	DFT-s-OFDM QPSK	120@60	22.34	15.54	0.0358
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@1	22.17	15.37	0.0344
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@243	22.33	15.53	0.0357
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	120@60	21.34	14.54	0.0284
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.16	14.36	0.0273
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@243	21.31	14.51	0.0282
78	30	90	650000	3750	DFT-s-OFDM 64 QAM	120@60	19.8	13	0.0200

78	30	90	650000	3750	DFT-s-OFDM 64 QAM	1@1	19.79	12.99	0.0199
78	30	90	650000	3750	DFT-s-OFDM 64 QAM	1@243	19.78	12.98	0.0199
78	30	90	650000	3750	DFT-s-OFDM 256 QAM	120@60	17.73	10.93	0.0124
78	30	90	650000	3750	DFT-s-OFDM 256 QAM	1@1	17.83	11.03	0.0127
78	30	90	650000	3750	DFT-s-OFDM 256 QAM	1@243	17.95	11.15	0.0130
78	30	90	650000	3750	CP-OFDM QPSK	123@61	20.79	13.99	0.0251
78	30	90	650000	3750	CP-OFDM QPSK	1@1	20.72	13.92	0.0247
78	30	90	650000	3750	CP-OFDM QPSK	1@243	20.79	13.99	0.0251
78	30	90	650332	3754.98	DFT-s-OFDM PI/2 BPSK	120@60	22.34	15.54	0.0358
78	30	90	650332	3754.98	DFT-s-OFDM PI/2 BPSK	1@1	22.3	15.5	0.0355
78	30	90	650332	3754.98	DFT-s-OFDM PI/2 BPSK	1@243	22.43	15.63	0.0366
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	120@60	22.32	15.52	0.0356
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@1	22.24	15.44	0.0350
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@243	22.34	15.54	0.0358
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	120@60	21.31	14.51	0.0282
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@1	21.2	14.4	0.0275
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@243	21.35	14.55	0.0285
78	30	90	650332	3754.98	DFT-s-OFDM 64 QAM	120@60	19.78	12.98	0.0199
78	30	90	650332	3754.98	DFT-s-OFDM 64 QAM	1@1	19.78	12.98	0.0199
78	30	90	650332	3754.98	DFT-s-OFDM 64 QAM	1@243	19.9	13.1	0.0204
78	30	90	650332	3754.98	DFT-s-OFDM 256 QAM	120@60	17.71	10.91	0.0123

78	30	90	650332	3754.98	DFT-s-OFDM 256 QAM	1@1	17.56	10.76	0.0119
78	30	90	650332	3754.98	DFT-s-OFDM 256 QAM	1@243	17.73	10.93	0.0124
78	30	90	650332	3754.98	CP-OFDM QPSK	123@61	20.73	13.93	0.0247
78	30	90	650332	3754.98	CP-OFDM QPSK	1@1	20.65	13.85	0.0243
78	30	90	650332	3754.98	CP-OFDM QPSK	1@243	20.84	14.04	0.0254
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	22.35	15.55	0.0359
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.24	15.44	0.0350
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	22.43	15.63	0.0366
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	22.32	15.52	0.0356
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	22.19	15.39	0.0346
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	22.36	15.56	0.0360
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	21.52	14.72	0.0296
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.19	14.39	0.0275
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	21.42	14.62	0.0290
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	19.81	13.01	0.0200
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	19.75	12.95	0.0197
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	19.94	13.14	0.0206
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	17.76	10.96	0.0125
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	17.57	10.77	0.0119
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	17.9	11.1	0.0129
78	30	100	650000	3750	CP-OFDM QPSK	137@68	20.79	13.99	0.0251
78	30	100	650000	3750	CP-OFDM QPSK	1@1	20.7	13.9	0.0245
78	30	100	650000	3750	CP-OFDM QPSK	1@271	20.85	14.05	0.0254

# FR1 N77 UL MIMO SCS 15kHz (ANT3+5)

## Conducted Power and EIRP (ANT gain=-4.94dBi)

MIMO Antenna gain=  $10 \log[(10^{\text{Ant.3 gain}/20} + 10^{\text{Ant.5 gain}/20})^2 / 2]$

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	ANT3 Power (dBm)	ANT5 Power (dBm)	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
77	15	10	647000	3705	DFT-s-OFDM PI/2 BPSK	25@12	22.28	22.29	25.30	20.36	0.1085
77	15	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	22.71	22.68	25.71	20.77	0.1193
77	15	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@50	22.76	22.81	25.80	20.86	0.1218
77	15	10	647000	3705	DFT-s-OFDM QPSK	25@12	22.81	22.79	25.81	20.87	0.1222
77	15	10	647000	3705	DFT-s-OFDM QPSK	1@1	22.71	22.72	25.73	20.79	0.1198
77	15	10	647000	3705	DFT-s-OFDM QPSK	1@50	22.73	22.76	25.76	20.82	0.1207
77	15	10	647000	3705	DFT-s-OFDM 16 QAM	25@12	21.74	21.89	24.83	19.89	0.0974
77	15	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	21.75	21.6	24.69	19.75	0.0943
77	15	10	647000	3705	DFT-s-OFDM 16 QAM	1@50	21.49	21.63	24.57	19.63	0.0919
77	15	10	647000	3705	DFT-s-OFDM 64 QAM	25@12	20.24	20.2	23.23	18.29	0.0675
77	15	10	647000	3705	DFT-s-OFDM 64 QAM	1@1	20.44	19.86	23.17	18.23	0.0665
77	15	10	647000	3705	DFT-s-OFDM 64 QAM	1@50	19.92	20.39	23.17	18.23	0.0666
77	15	10	647000	3705	DFT-s-OFDM 256 QAM	25@12	18.22	18.25	21.25	16.31	0.0427
77	15	10	647000	3705	DFT-s-OFDM 256 QAM	1@1	18.14	18.11	21.14	16.20	0.0416
77	15	10	647000	3705	DFT-s-OFDM 256 QAM	1@50	18.15	18.19	21.18	16.24	0.0421
77	15	10	647000	3705	CP-OFDM QPSK	26@13	21.22	21.42	24.33	19.39	0.0869
77	15	10	647000	3705	CP-OFDM QPSK	1@1	21.21	21.18	24.21	19.27	0.0844
77	15	10	647000	3705	CP-OFDM QPSK	1@50	21.37	21.29	24.34	19.40	0.0871
77	15	10	656000	3840	DFT-s-OFDM PI/2 BPSK	25@12	22.67	22.91	25.80	20.86	0.1220
77	15	10	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	22.61	22.83	25.73	20.79	0.1200
77	15	10	656000	3840	DFT-s-OFDM PI/2 BPSK	1@50	22.69	22.9	25.81	20.87	0.1221
77	15	10	656000	3840	DFT-s-OFDM QPSK	25@12	22.72	22.9	25.82	20.88	0.1225
77	15	10	656000	3840	DFT-s-OFDM QPSK	1@1	22.59	22.78	25.70	20.76	0.1190
77	15	10	656000	3840	DFT-s-OFDM QPSK	1@50	22.6	22.8	25.71	20.77	0.1194
77	15	10	656000	3840	DFT-s-OFDM 16 QAM	25@12	21.65	21.81	24.74	19.80	0.0955
77	15	10	656000	3840	DFT-s-OFDM 16 QAM	1@1	21.39	21.62	24.52	19.58	0.0907
77	15	10	656000	3840	DFT-s-OFDM 16 QAM	1@50	21.66	21.69	24.69	19.75	0.0943
77	15	10	656000	3840	DFT-s-OFDM	25@12	20.2	20.4	23.31	18.37	0.0687

					64 QAM						
77	15	10	656000	3840	DFT-s-OFDM 64 QAM	1@1	20.23	20.44	23.35	18.41	0.0693
77	15	10	656000	3840	DFT-s-OFDM 64 QAM	1@50	19.85	20.15	23.01	18.07	0.0642
77	15	10	656000	3840	DFT-s-OFDM 256 QAM	25@12	18.45	18.35	21.41	16.47	0.0444
77	15	10	656000	3840	DFT-s-OFDM 256 QAM	1@1	17.99	18.16	21.09	16.15	0.0412
77	15	10	656000	3840	DFT-s-OFDM 256 QAM	1@50	18.02	18.24	21.14	16.20	0.0417
77	15	10	656000	3840	CP-OFDM QPSK	26@13	21.35	21.56	24.47	19.53	0.0897
77	15	10	656000	3840	CP-OFDM QPSK	1@1	21.11	21.43	24.28	19.34	0.0860
77	15	10	656000	3840	CP-OFDM QPSK	1@50	21.11	21.37	24.25	19.31	0.0854
77	15	10	665000	3975	DFT-s-OFDM PI/2 BPSK	25@12	23.03	22.8	25.93	20.99	0.1255
77	15	10	665000	3975	DFT-s-OFDM PI/2 BPSK	1@1	22.95	22.71	25.84	20.90	0.1231
77	15	10	665000	3975	DFT-s-OFDM PI/2 BPSK	1@50	23.07	22.85	25.97	21.03	0.1268
77	15	10	665000	3975	DFT-s-OFDM QPSK	25@12	23.04	22.72	25.89	20.95	0.1245
77	15	10	665000	3975	DFT-s-OFDM QPSK	1@1	22.96	22.66	25.82	20.88	0.1225
77	15	10	665000	3975	DFT-s-OFDM QPSK	1@50	23.03	22.74	25.90	20.96	0.1247
77	15	10	665000	3975	DFT-s-OFDM 16 QAM	25@12	21.97	21.75	24.87	19.93	0.0984
77	15	10	665000	3975	DFT-s-OFDM 16 QAM	1@1	22.06	21.63	24.86	19.92	0.0982
77	15	10	665000	3975	DFT-s-OFDM 16 QAM	1@50	21.74	21.89	24.83	19.89	0.0974
77	15	10	665000	3975	DFT-s-OFDM 64 QAM	25@12	20.48	20.24	23.37	18.43	0.0697
77	15	10	665000	3975	DFT-s-OFDM 64 QAM	1@1	20.27	20.33	23.31	18.37	0.0687
77	15	10	665000	3975	DFT-s-OFDM 64 QAM	1@50	20.81	20.11	23.48	18.54	0.0715
77	15	10	665000	3975	DFT-s-OFDM 256 QAM	25@12	18.42	18.24	21.34	16.40	0.0437
77	15	10	665000	3975	DFT-s-OFDM 256 QAM	1@1	18.41	18.14	21.29	16.35	0.0431
77	15	10	665000	3975	DFT-s-OFDM 256 QAM	1@50	18.35	18.2	21.29	16.35	0.0431
77	15	10	665000	3975	CP-OFDM QPSK	26@13	21.42	21.35	24.40	19.46	0.0882
77	15	10	665000	3975	CP-OFDM QPSK	1@1	21.47	21.23	24.36	19.42	0.0875
77	15	10	665000	3975	CP-OFDM QPSK	1@50	21.45	21.3	24.39	19.45	0.0880
77	15	15	647167	3707.505	DFT-s-OFDM PI/2 BPSK	36@18	22.27	22.27	25.28	20.34	0.1082
77	15	15	647167	3707.505	DFT-s-OFDM PI/2 BPSK	1@1	22.79	22.77	25.79	20.85	0.1216
77	15	15	647167	3707.505	DFT-s-OFDM PI/2 BPSK	1@77	22.77	22.82	25.81	20.87	0.1220
77	15	15	647167	3707.505	DFT-s-OFDM QPSK	36@18	22.86	22.83	25.86	20.92	0.1235
77	15	15	647167	3707.505	DFT-s-OFDM QPSK	1@1	22.76	22.68	25.73	20.79	0.1200
77	15	15	647167	3707.505	DFT-s-OFDM QPSK	1@77	22.74	22.81	25.79	20.85	0.1215
77	15	15	647167	3707.505	DFT-s-OFDM 16 QAM	36@18	21.8	21.81	24.82	19.88	0.0972

77	15	15	647167	3707.505	DFT-s-OFDM 16 QAM	1@1	21.8	21.52	24.67	19.73	0.0940
77	15	15	647167	3707.505	DFT-s-OFDM 16 QAM	1@77	21.62	21.65	24.65	19.71	0.0934
77	15	15	647167	3707.505	DFT-s-OFDM 64 QAM	36@18	20.3	20.27	23.30	18.36	0.0685
77	15	15	647167	3707.505	DFT-s-OFDM 64 QAM	1@1	19.98	20.2	23.10	18.16	0.0655
77	15	15	647167	3707.505	DFT-s-OFDM 64 QAM	1@77	20.44	20.23	23.35	18.41	0.0693
77	15	15	647167	3707.505	DFT-s-OFDM 256 QAM	36@18	18.22	18.42	21.33	16.39	0.0436
77	15	15	647167	3707.505	DFT-s-OFDM 256 QAM	1@1	18.18	18.15	21.18	16.24	0.0420
77	15	15	647167	3707.505	DFT-s-OFDM 256 QAM	1@77	18.14	18.22	21.19	16.25	0.0422
77	15	15	647167	3707.505	CP-OFDM QPSK	39@19	21.34	21.52	24.44	19.50	0.0892
77	15	15	647167	3707.505	CP-OFDM QPSK	1@1	21.21	21.12	24.18	19.24	0.0839
77	15	15	647167	3707.505	CP-OFDM QPSK	1@77	21.36	21.41	24.40	19.46	0.0882
77	15	15	656000	3840	DFT-s-OFDM PI/2 BPSK	36@18	22.73	22.86	25.81	20.87	0.1221
77	15	15	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	22.75	22.84	25.81	20.87	0.1221
77	15	15	656000	3840	DFT-s-OFDM PI/2 BPSK	1@77	22.74	23.01	25.89	20.95	0.1244
77	15	15	656000	3840	DFT-s-OFDM QPSK	36@18	22.74	22.92	25.84	20.90	0.1231
77	15	15	656000	3840	DFT-s-OFDM QPSK	1@1	22.63	22.8	25.73	20.79	0.1198
77	15	15	656000	3840	DFT-s-OFDM QPSK	1@77	22.64	22.94	25.80	20.86	0.1220
77	15	15	656000	3840	DFT-s-OFDM 16 QAM	36@18	21.76	21.93	24.86	19.92	0.0981
77	15	15	656000	3840	DFT-s-OFDM 16 QAM	1@1	21.7	21.71	24.72	19.78	0.0950
77	15	15	656000	3840	DFT-s-OFDM 16 QAM	1@77	21.47	21.86	24.68	19.74	0.0942
77	15	15	656000	3840	DFT-s-OFDM 64 QAM	36@18	20.24	20.42	23.34	18.40	0.0692
77	15	15	656000	3840	DFT-s-OFDM 64 QAM	1@1	19.61	19.79	22.71	17.77	0.0599
77	15	15	656000	3840	DFT-s-OFDM 64 QAM	1@77	20.17	20.23	23.21	18.27	0.0671
77	15	15	656000	3840	DFT-s-OFDM 256 QAM	36@18	18.34	18.55	21.46	16.52	0.0448
77	15	15	656000	3840	DFT-s-OFDM 256 QAM	1@1	18.11	18.19	21.16	16.22	0.0419
77	15	15	656000	3840	DFT-s-OFDM 256 QAM	1@77	17.98	18.33	21.17	16.23	0.0420
77	15	15	656000	3840	CP-OFDM QPSK	39@19	21.35	21.42	24.40	19.46	0.0882
77	15	15	656000	3840	CP-OFDM QPSK	1@1	21.14	21.29	24.23	19.29	0.0848
77	15	15	656000	3840	CP-OFDM QPSK	1@77	21.13	21.49	24.32	19.38	0.0868
77	15	15	664833	3972.495	DFT-s-OFDM PI/2 BPSK	36@18	23.02	22.7	25.87	20.93	0.1240
77	15	15	664833	3972.495	DFT-s-OFDM PI/2 BPSK	1@1	22.92	22.61	25.78	20.84	0.1213
77	15	15	664833	3972.495	DFT-s-OFDM PI/2 BPSK	1@77	23.01	22.75	25.89	20.95	0.1245
77	15	15	664833	3972.495	DFT-s-OFDM QPSK	36@18	23.02	22.74	25.89	20.95	0.1245
77	15	15	664833	3972.495	DFT-s-OFDM QPSK	1@1	22.91	22.44	25.69	20.75	0.1189



77	15	15	664833	3972.495	DFT-s-OFDM QPSK	1@77	22.92	22.75	25.85	20.91	0.1232
77	15	15	664833	3972.495	DFT-s-OFDM 16 QAM	36@18	22.03	21.72	24.89	19.95	0.0988
77	15	15	664833	3972.495	DFT-s-OFDM 16 QAM	1@1	21.83	21.48	24.67	19.73	0.0939
77	15	15	664833	3972.495	DFT-s-OFDM 16 QAM	1@77	21.91	21.6	24.77	19.83	0.0961
77	15	15	664833	3972.495	DFT-s-OFDM 64 QAM	36@18	20.48	20.15	23.33	18.39	0.0690
77	15	15	664833	3972.495	DFT-s-OFDM 64 QAM	1@1	20.59	19.94	23.29	18.35	0.0684
77	15	15	664833	3972.495	DFT-s-OFDM 64 QAM	1@77	20.64	20.18	23.43	18.49	0.0706
77	15	15	664833	3972.495	DFT-s-OFDM 256 QAM	36@18	18.39	18.08	21.25	16.31	0.0427
77	15	15	664833	3972.495	DFT-s-OFDM 256 QAM	1@1	18.38	17.95	21.18	16.24	0.0421
77	15	15	664833	3972.495	DFT-s-OFDM 256 QAM	1@77	18.36	18.21	21.30	16.36	0.0432
77	15	15	664833	3972.495	CP-OFDM QPSK	39@19	21.45	21.17	24.32	19.38	0.0867
77	15	15	664833	3972.495	CP-OFDM QPSK	1@1	21.31	21.22	24.28	19.34	0.0858
77	15	15	664833	3972.495	CP-OFDM QPSK	1@77	21.5	21.2	24.36	19.42	0.0876
77	15	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	50@25	22.29	22.28	25.30	20.36	0.1085
77	15	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	22.82	22.76	25.80	20.86	0.1219
77	15	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@104	22.75	22.79	25.78	20.84	0.1213
77	15	20	647334	3710.01	DFT-s-OFDM QPSK	50@25	22.82	22.82	25.83	20.89	0.1228
77	15	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	22.73	22.63	25.69	20.75	0.1189
77	15	20	647334	3710.01	DFT-s-OFDM QPSK	1@104	22.68	22.69	25.70	20.76	0.1190
77	15	20	647334	3710.01	DFT-s-OFDM 16 QAM	50@25	21.83	21.84	24.85	19.91	0.0978
77	15	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	21.57	21.65	24.62	19.68	0.0929
77	15	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@104	21.58	21.52	24.56	19.62	0.0916
77	15	20	647334	3710.01	DFT-s-OFDM 64 QAM	50@25	20.25	20.31	23.29	18.35	0.0684
77	15	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@1	20.55	19.98	23.28	18.34	0.0683
77	15	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@104	19.68	20.09	22.90	17.96	0.0625
77	15	20	647334	3710.01	DFT-s-OFDM 256 QAM	50@25	18.24	18.21	21.24	16.30	0.0426
77	15	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@1	18.16	18.06	21.12	16.18	0.0415
77	15	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@104	18.18	18.25	21.23	16.29	0.0425
77	15	20	647334	3710.01	CP-OFDM QPSK	53@26	21.35	21.53	24.45	19.51	0.0894
77	15	20	647334	3710.01	CP-OFDM QPSK	1@1	21.34	21.31	24.34	19.40	0.0870
77	15	20	647334	3710.01	CP-OFDM QPSK	1@104	21.52	21.16	24.35	19.41	0.0874
77	15	20	656000	3840	DFT-s-OFDM PI/2 BPSK	50@25	22.77	22.91	25.85	20.91	0.1233
77	15	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	22.75	22.83	25.80	20.86	0.1219
77	15	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@104	22.71	22.99	25.86	20.92	0.1237

77	15	20	656000	3840	DFT-s-OFDM QPSK	50@25	22.78	22.95	25.88	20.94	0.1241
77	15	20	656000	3840	DFT-s-OFDM QPSK	1@1	22.73	22.81	25.78	20.84	0.1214
77	15	20	656000	3840	DFT-s-OFDM QPSK	1@104	22.67	23.05	25.87	20.93	0.1240
77	15	20	656000	3840	DFT-s-OFDM 16 QAM	50@25	21.73	21.94	24.85	19.91	0.0979
77	15	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	21.6	21.85	24.74	19.80	0.0954
77	15	20	656000	3840	DFT-s-OFDM 16 QAM	1@104	21.72	21.87	24.81	19.87	0.0970
77	15	20	656000	3840	DFT-s-OFDM 64 QAM	50@25	20.23	20.47	23.36	18.42	0.0695
77	15	20	656000	3840	DFT-s-OFDM 64 QAM	1@1	20.42	20.07	23.26	18.32	0.0679
77	15	20	656000	3840	DFT-s-OFDM 64 QAM	1@104	20.32	20.72	23.53	18.59	0.0724
77	15	20	656000	3840	DFT-s-OFDM 256 QAM	50@25	18.16	18.36	21.27	16.33	0.0430
77	15	20	656000	3840	DFT-s-OFDM 256 QAM	1@1	18.12	18.29	21.22	16.28	0.0424
77	15	20	656000	3840	DFT-s-OFDM 256 QAM	1@104	18.06	18.4	21.24	16.30	0.0427
77	15	20	656000	3840	CP-OFDM QPSK	53@26	21.22	21.42	24.33	19.39	0.0869
77	15	20	656000	3840	CP-OFDM QPSK	1@1	21.21	21.3	24.27	19.33	0.0856
77	15	20	656000	3840	CP-OFDM QPSK	1@104	21.16	21.48	24.33	19.39	0.0870
77	15	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	50@25	21.72	21.95	24.85	19.91	0.0979
77	15	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@1	22.88	22.53	25.72	20.78	0.1196
77	15	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@104	23.05	22.84	25.96	21.02	0.1264
77	15	20	664666	3969.99	DFT-s-OFDM QPSK	50@25	22.98	22.69	25.85	20.91	0.1232
77	15	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	22.98	22.5	25.76	20.82	0.1207
77	15	20	664666	3969.99	DFT-s-OFDM QPSK	1@104	22.91	22.69	25.81	20.87	0.1222
77	15	20	664666	3969.99	DFT-s-OFDM 16 QAM	50@25	22.04	21.59	24.83	19.89	0.0975
77	15	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	21.8	21.37	24.60	19.66	0.0925
77	15	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@104	21.88	21.64	24.77	19.83	0.0962
77	15	20	664666	3969.99	DFT-s-OFDM 64 QAM	50@25	20.58	20.14	23.38	18.44	0.0698
77	15	20	664666	3969.99	DFT-s-OFDM 64 QAM	1@1	20.23	19.84	23.05	18.11	0.0647
77	15	20	664666	3969.99	DFT-s-OFDM 64 QAM	1@104	20.22	20.53	23.39	18.45	0.0700
77	15	20	664666	3969.99	DFT-s-OFDM 256 QAM	50@25	18.43	18.05	21.25	16.31	0.0428
77	15	20	664666	3969.99	DFT-s-OFDM 256 QAM	1@1	18.32	17.93	21.14	16.20	0.0417
77	15	20	664666	3969.99	DFT-s-OFDM 256 QAM	1@104	18.42	18.21	21.33	16.39	0.0435
77	15	20	664666	3969.99	CP-OFDM QPSK	53@26	21.35	21.42	24.40	19.46	0.0882
77	15	20	664666	3969.99	CP-OFDM QPSK	1@1	21.4	21.03	24.23	19.29	0.0849
77	15	20	664666	3969.99	CP-OFDM QPSK	1@104	21.49	21.3	24.41	19.47	0.0884
77	15	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	64@32	22.19	22.29	25.25	20.31	0.1074

77	15	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	1@1	22.76	22.74	25.76	20.82	0.1208
77	15	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	1@131	22.64	22.79	25.73	20.79	0.1198
77	15	25	647500	3712.5	DFT-s-OFDM QPSK	64@32	22.74	22.77	25.77	20.83	0.1209
77	15	25	647500	3712.5	DFT-s-OFDM QPSK	1@1	22.69	22.66	25.69	20.75	0.1187
77	15	25	647500	3712.5	DFT-s-OFDM QPSK	1@131	22.69	22.71	25.71	20.77	0.1194
77	15	25	647500	3712.5	DFT-s-OFDM 16 QAM	64@32	21.71	21.7	24.72	19.78	0.0950
77	15	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@1	21.8	21.64	24.73	19.79	0.0953
77	15	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@131	21.6	21.8	24.71	19.77	0.0949
77	15	25	647500	3712.5	DFT-s-OFDM 64 QAM	64@32	20.19	20.17	23.19	18.25	0.0668
77	15	25	647500	3712.5	DFT-s-OFDM 64 QAM	1@1	20.45	19.97	23.23	18.29	0.0674
77	15	25	647500	3712.5	DFT-s-OFDM 64 QAM	1@131	20.41	20.52	23.48	18.54	0.0714
77	15	25	647500	3712.5	DFT-s-OFDM 256 QAM	64@32	18.14	18.2	21.18	16.24	0.0421
77	15	25	647500	3712.5	DFT-s-OFDM 256 QAM	1@1	18.1	18.18	21.15	16.21	0.0418
77	15	25	647500	3712.5	DFT-s-OFDM 256 QAM	1@131	18.04	18.27	21.17	16.23	0.0419
77	15	25	647500	3712.5	CP-OFDM QPSK	67@33	21.32	21.34	24.34	19.40	0.0871
77	15	25	647500	3712.5	CP-OFDM QPSK	1@1	21.2	21.35	24.29	19.35	0.0860
77	15	25	647500	3712.5	CP-OFDM QPSK	1@131	21.2	21.24	24.23	19.29	0.0849
77	15	25	656000	3840	DFT-s-OFDM PI/2 BPSK	64@32	22.65	22.88	25.78	20.84	0.1213
77	15	25	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	22.69	22.86	25.79	20.85	0.1215
77	15	25	656000	3840	DFT-s-OFDM PI/2 BPSK	1@131	22.57	23.05	25.83	20.89	0.1227
77	15	25	656000	3840	DFT-s-OFDM QPSK	64@32	22.65	22.91	25.79	20.85	0.1217
77	15	25	656000	3840	DFT-s-OFDM QPSK	1@1	22.71	22.8	25.77	20.83	0.1209
77	15	25	656000	3840	DFT-s-OFDM QPSK	1@131	22.56	23.02	25.81	20.87	0.1221
77	15	25	656000	3840	DFT-s-OFDM 16 QAM	64@32	21.6	21.87	24.75	19.81	0.0957
77	15	25	656000	3840	DFT-s-OFDM 16 QAM	1@1	21.77	21.93	24.86	19.92	0.0982
77	15	25	656000	3840	DFT-s-OFDM 16 QAM	1@131	21.62	22	24.82	19.88	0.0974
77	15	25	656000	3840	DFT-s-OFDM 64 QAM	64@32	20.15	20.38	23.28	18.34	0.0682
77	15	25	656000	3840	DFT-s-OFDM 64 QAM	1@1	20.05	20.15	23.11	18.17	0.0656
77	15	25	656000	3840	DFT-s-OFDM 64 QAM	1@131	20.33	20.36	23.36	18.42	0.0694
77	15	25	656000	3840	DFT-s-OFDM 256 QAM	64@32	18.11	18.03	21.08	16.14	0.0411
77	15	25	656000	3840	DFT-s-OFDM 256 QAM	1@1	18.17	18.32	21.26	16.32	0.0428
77	15	25	656000	3840	DFT-s-OFDM 256 QAM	1@131	18.06	18.48	21.29	16.35	0.0431
77	15	25	656000	3840	CP-OFDM QPSK	67@33	21.25	21.35	24.31	19.37	0.0865
77	15	25	656000	3840	CP-OFDM QPSK	1@1	21.25	21.39	24.33	19.39	0.0869

77	15	25	656000	3840	CP-OFDM QPSK	1@131	21.05	21.58	24.33	19.39	0.0870
77	15	25	664500	3967.5	DFT-s-OFDM PI/2 BPSK	64@32	22.89	22.61	25.76	20.82	0.1209
77	15	25	664500	3967.5	DFT-s-OFDM PI/2 BPSK	1@1	22.94	22.53	25.75	20.81	0.1205
77	15	25	664500	3967.5	DFT-s-OFDM PI/2 BPSK	1@131	22.99	22.85	25.93	20.99	0.1256
77	15	25	664500	3967.5	DFT-s-OFDM QPSK	64@32	22.95	22.59	25.78	20.84	0.1215
77	15	25	664500	3967.5	DFT-s-OFDM QPSK	1@1	22.8	22.42	25.62	20.68	0.1171
77	15	25	664500	3967.5	DFT-s-OFDM QPSK	1@131	22.86	22.82	25.85	20.91	0.1233
77	15	25	664500	3967.5	DFT-s-OFDM 16 QAM	64@32	21.97	21.56	24.78	19.84	0.0964
77	15	25	664500	3967.5	DFT-s-OFDM 16 QAM	1@1	21.8	21.38	24.61	19.67	0.0926
77	15	25	664500	3967.5	DFT-s-OFDM 16 QAM	1@131	21.8	21.74	24.78	19.84	0.0964
77	15	25	664500	3967.5	DFT-s-OFDM 64 QAM	64@32	20.36	20.06	23.22	18.28	0.0673
77	15	25	664500	3967.5	DFT-s-OFDM 64 QAM	1@1	20.13	20.24	23.20	18.26	0.0669
77	15	25	664500	3967.5	DFT-s-OFDM 64 QAM	1@131	20.26	20.07	23.18	18.24	0.0666
77	15	25	664500	3967.5	DFT-s-OFDM 256 QAM	64@32	18.23	18.24	21.25	16.31	0.0427
77	15	25	664500	3967.5	DFT-s-OFDM 256 QAM	1@1	18.35	17.92	21.15	16.21	0.0418
77	15	25	664500	3967.5	DFT-s-OFDM 256 QAM	1@131	18.45	18.29	21.38	16.44	0.0441
77	15	25	664500	3967.5	CP-OFDM QPSK	67@33	21.34	21.22	24.29	19.35	0.0861
77	15	25	664500	3967.5	CP-OFDM QPSK	1@1	21.32	21.24	24.29	19.35	0.0861
77	15	25	664500	3967.5	CP-OFDM QPSK	1@131	21.51	21.4	24.47	19.53	0.0897
77	15	30	647667	3715.005	DFT-s-OFDM PI/2 BPSK	80@40	22.26	22.35	25.32	20.38	0.1090
77	15	30	647667	3715.005	DFT-s-OFDM PI/2 BPSK	1@1	22.84	22.77	25.82	20.88	0.1223
77	15	30	647667	3715.005	DFT-s-OFDM PI/2 BPSK	1@158	22.72	22.89	25.82	20.88	0.1224
77	15	30	647667	3715.005	DFT-s-OFDM QPSK	80@40	22.79	22.85	25.83	20.89	0.1228
77	15	30	647667	3715.005	DFT-s-OFDM QPSK	1@1	22.73	22.76	25.76	20.82	0.1207
77	15	30	647667	3715.005	DFT-s-OFDM QPSK	1@158	22.62	22.85	25.75	20.81	0.1204
77	15	30	647667	3715.005	DFT-s-OFDM 16 QAM	80@40	21.82	21.88	24.86	19.92	0.0982
77	15	30	647667	3715.005	DFT-s-OFDM 16 QAM	1@1	21.72	21.62	24.68	19.74	0.0942
77	15	30	647667	3715.005	DFT-s-OFDM 16 QAM	1@158	21.66	21.81	24.75	19.81	0.0956
77	15	30	647667	3715.005	DFT-s-OFDM 64 QAM	80@40	20.33	20.32	23.34	18.40	0.0691
77	15	30	647667	3715.005	DFT-s-OFDM 64 QAM	1@1	20.02	20.02	23.03	18.09	0.0644
77	15	30	647667	3715.005	DFT-s-OFDM 64 QAM	1@158	20.03	20.53	23.30	18.36	0.0685
77	15	30	647667	3715.005	DFT-s-OFDM 256 QAM	80@40	18.42	18.32	21.38	16.44	0.0441
77	15	30	647667	3715.005	DFT-s-OFDM 256 QAM	1@1	18.04	18.18	21.12	16.18	0.0415
77	15	30	647667	3715.005	DFT-s-OFDM 256 QAM	1@158	18.01	18.26	21.15	16.21	0.0418

77	15	30	647667	3715.005	CP-OFDM QPSK	80@40	21.29	21.34	24.33	19.39	0.0868
77	15	30	647667	3715.005	CP-OFDM QPSK	1@1	21.25	21.4	24.34	19.40	0.0870
77	15	30	647667	3715.005	CP-OFDM QPSK	1@158	21.26	21.55	24.42	19.48	0.0887
77	15	30	656000	3840	DFT-s-OFDM PI/2 BPSK	80@40	22.74	23.04	25.90	20.96	0.1248
77	15	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	22.85	22.94	25.91	20.97	0.1249
77	15	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@158	22.64	23.12	25.90	20.96	0.1247
77	15	30	656000	3840	DFT-s-OFDM QPSK	80@40	22.72	22.99	25.87	20.93	0.1238
77	15	30	656000	3840	DFT-s-OFDM QPSK	1@1	22.7	22.83	25.78	20.84	0.1212
77	15	30	656000	3840	DFT-s-OFDM QPSK	1@158	22.56	23.14	25.87	20.93	0.1239
77	15	30	656000	3840	DFT-s-OFDM 16 QAM	80@40	21.72	22.02	24.88	19.94	0.0987
77	15	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	21.68	21.83	24.77	19.83	0.0961
77	15	30	656000	3840	DFT-s-OFDM 16 QAM	1@158	21.61	21.9	24.77	19.83	0.0961
77	15	30	656000	3840	DFT-s-OFDM 64 QAM	80@40	20.21	20.49	23.36	18.42	0.0695
77	15	30	656000	3840	DFT-s-OFDM 64 QAM	1@1	20.04	20.25	23.16	18.22	0.0663
77	15	30	656000	3840	DFT-s-OFDM 64 QAM	1@158	19.96	20.4	23.20	18.26	0.0669
77	15	30	656000	3840	DFT-s-OFDM 256 QAM	80@40	18.18	18.49	21.35	16.41	0.0437
77	15	30	656000	3840	DFT-s-OFDM 256 QAM	1@1	18.06	18.28	21.18	16.24	0.0421
77	15	30	656000	3840	DFT-s-OFDM 256 QAM	1@158	18.05	18.43	21.25	16.31	0.0428
77	15	30	656000	3840	CP-OFDM QPSK	80@40	21.23	21.52	24.39	19.45	0.0881
77	15	30	656000	3840	CP-OFDM QPSK	1@1	21.37	21.31	24.35	19.41	0.0873
77	15	30	656000	3840	CP-OFDM QPSK	1@158	21.12	21.8	24.48	19.54	0.0900
77	15	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	80@40	22.91	22.61	25.77	20.83	0.1211
77	15	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@1	22.79	22.46	25.64	20.70	0.1174
77	15	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@158	22.97	22.8	25.90	20.96	0.1246
77	15	30	664332	3964.98	DFT-s-OFDM QPSK	80@40	22.95	22.6	25.79	20.85	0.1216
77	15	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	22.8	22.39	25.61	20.67	0.1167
77	15	30	664332	3964.98	DFT-s-OFDM QPSK	1@158	22.88	22.75	25.83	20.89	0.1226
77	15	30	664332	3964.98	DFT-s-OFDM 16 QAM	80@40	21.91	21.59	24.76	19.82	0.0960
77	15	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	21.65	21.38	24.53	19.59	0.0909
77	15	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@158	21.73	21.62	24.69	19.75	0.0943
77	15	30	664332	3964.98	DFT-s-OFDM 64 QAM	80@40	20.42	20.03	23.24	18.30	0.0676
77	15	30	664332	3964.98	DFT-s-OFDM 64 QAM	1@1	20.51	19.72	23.14	18.20	0.0661
77	15	30	664332	3964.98	DFT-s-OFDM 64 QAM	1@158	20.65	19.98	23.34	18.40	0.0692
77	15	30	664332	3964.98	DFT-s-OFDM 256 QAM	80@40	18.09	18.25	21.18	16.24	0.0421

77	15	30	664332	3964.98	DFT-s-OFDM 256 QAM	1@1	18.13	17.87	21.01	16.07	0.0405
77	15	30	664332	3964.98	DFT-s-OFDM 256 QAM	1@158	18.33	18.13	21.24	16.30	0.0427
77	15	30	664332	3964.98	CP-OFDM QPSK	80@40	21.34	21.42	24.39	19.45	0.0881
77	15	30	664332	3964.98	CP-OFDM QPSK	1@1	21.52	21.35	24.45	19.51	0.0893
77	15	30	664332	3964.98	CP-OFDM QPSK	1@158	21.59	21.27	24.44	19.50	0.0892
77	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	108@54	21.95	21.53	24.76	19.82	0.0958
77	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	22.2	22.39	25.31	20.37	0.1088
77	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@214	22.75	22.81	25.79	20.85	0.1216
77	15	40	648000	3720	DFT-s-OFDM QPSK	108@54	22.76	22.83	25.81	20.87	0.1221
77	15	40	648000	3720	DFT-s-OFDM QPSK	1@1	22.69	22.76	25.74	20.80	0.1201
77	15	40	648000	3720	DFT-s-OFDM QPSK	1@214	22.73	22.79	25.77	20.83	0.1211
77	15	40	648000	3720	DFT-s-OFDM 16 QAM	108@54	21.77	21.83	24.81	19.87	0.0971
77	15	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	21.71	21.68	24.71	19.77	0.0947
77	15	40	648000	3720	DFT-s-OFDM 16 QAM	1@214	21.64	21.73	24.70	19.76	0.0945
77	15	40	648000	3720	DFT-s-OFDM 64 QAM	108@54	20.27	20.33	23.31	18.37	0.0687
77	15	40	648000	3720	DFT-s-OFDM 64 QAM	1@1	20.05	20.49	23.29	18.35	0.0683
77	15	40	648000	3720	DFT-s-OFDM 64 QAM	1@214	20.05	19.72	22.90	17.96	0.0625
77	15	40	648000	3720	DFT-s-OFDM 256 QAM	108@54	18.43	18.25	21.35	16.41	0.0438
77	15	40	648000	3720	DFT-s-OFDM 256 QAM	1@1	18.19	18.19	21.20	16.26	0.0423
77	15	40	648000	3720	DFT-s-OFDM 256 QAM	1@214	18.08	18.27	21.19	16.25	0.0421
77	15	40	648000	3720	CP-OFDM QPSK	108@54	21.32	21.25	24.30	19.36	0.0862
77	15	40	648000	3720	CP-OFDM QPSK	1@1	21.26	21.29	24.29	19.35	0.0860
77	15	40	648000	3720	CP-OFDM QPSK	1@214	21.11	21.36	24.25	19.31	0.0853
77	15	40	656000	3840	DFT-s-OFDM PI/2 BPSK	108@54	22.72	23.04	25.89	20.95	0.1245
77	15	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	22.77	22.83	25.81	20.87	0.1222
77	15	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@214	22.67	23.14	25.92	20.98	0.1254
77	15	40	656000	3840	DFT-s-OFDM QPSK	108@54	22.73	23.05	25.90	20.96	0.1248
77	15	40	656000	3840	DFT-s-OFDM QPSK	1@1	22.82	22.76	25.80	20.86	0.1219
77	15	40	656000	3840	DFT-s-OFDM QPSK	1@214	22.63	23.1	25.88	20.94	0.1242
77	15	40	656000	3840	DFT-s-OFDM 16 QAM	108@54	21.69	22.04	24.88	19.94	0.0986
77	15	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	21.75	21.8	24.79	19.85	0.0965
77	15	40	656000	3840	DFT-s-OFDM 16 QAM	1@214	21.43	22.12	24.80	19.86	0.0968
77	15	40	656000	3840	DFT-s-OFDM 64 QAM	108@54	20.19	20.52	23.37	18.43	0.0696
77	15	40	656000	3840	DFT-s-OFDM 64 QAM	1@1	20.01	20.09	23.06	18.12	0.0649

77	15	40	656000	3840	DFT-s-OFDM 64 QAM	1@214	19.96	20.8	23.41	18.47	0.0703
77	15	40	656000	3840	DFT-s-OFDM 256 QAM	108@54	18.34	18.42	21.39	16.45	0.0442
77	15	40	656000	3840	DFT-s-OFDM 256 QAM	1@1	18.27	18.29	21.29	16.35	0.0432
77	15	40	656000	3840	DFT-s-OFDM 256 QAM	1@214	18.07	18.57	21.34	16.40	0.0436
77	15	40	656000	3840	CP-OFDM QPSK	108@54	21.42	21.35	24.40	19.46	0.0882
77	15	40	656000	3840	CP-OFDM QPSK	1@1	21.25	21.52	24.40	19.46	0.0883
77	15	40	656000	3840	CP-OFDM QPSK	1@214	21.09	21.63	24.38	19.44	0.0879
77	15	40	664000	3960	DFT-s-OFDM PI/2 BPSK	108@54	22.89	22.63	25.77	20.83	0.1211
77	15	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@1	22.88	22.53	25.72	20.78	0.1196
77	15	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@214	23	22.84	25.93	20.99	0.1256
77	15	40	664000	3960	DFT-s-OFDM QPSK	108@54	22.95	22.63	25.80	20.86	0.1220
77	15	40	664000	3960	DFT-s-OFDM QPSK	1@1	22.77	22.41	25.60	20.66	0.1165
77	15	40	664000	3960	DFT-s-OFDM QPSK	1@214	23.01	22.76	25.90	20.96	0.1247
77	15	40	664000	3960	DFT-s-OFDM 16 QAM	108@54	21.94	21.56	24.76	19.82	0.0960
77	15	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	21.65	21.29	24.48	19.54	0.0900
77	15	40	664000	3960	DFT-s-OFDM 16 QAM	1@214	21.78	21.77	24.79	19.85	0.0965
77	15	40	664000	3960	DFT-s-OFDM 64 QAM	108@54	20.49	20.1	23.31	18.37	0.0687
77	15	40	664000	3960	DFT-s-OFDM 64 QAM	1@1	20.58	19.84	23.24	18.30	0.0675
77	15	40	664000	3960	DFT-s-OFDM 64 QAM	1@214	20.53	20.56	23.56	18.62	0.0727
77	15	40	664000	3960	DFT-s-OFDM 256 QAM	108@54	18.24	18.24	21.25	16.31	0.0428
77	15	40	664000	3960	DFT-s-OFDM 256 QAM	1@1	18.24	17.93	21.10	16.16	0.0413
77	15	40	664000	3960	DFT-s-OFDM 256 QAM	1@214	18.43	18.26	21.36	16.42	0.0438
77	15	40	664000	3960	CP-OFDM QPSK	108@54	21.22	21.24	24.24	19.30	0.0851
77	15	40	664000	3960	CP-OFDM QPSK	1@1	21.31	21.06	24.20	19.26	0.0843
77	15	40	664000	3960	CP-OFDM QPSK	1@214	21.46	21.23	24.36	19.42	0.0874
77	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	135@67	22.34	22.51	25.44	20.50	0.1121
77	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	22.83	22.83	25.84	20.90	0.1230
77	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@268	22.9	22.92	25.92	20.98	0.1253
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	135@67	22.83	22.91	25.88	20.94	0.1242
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	22.84	22.74	25.80	20.86	0.1219
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@268	22.87	22.83	25.86	20.92	0.1236
77	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	135@67	21.83	21.95	24.90	19.96	0.0991
77	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	21.56	21.55	24.57	19.63	0.0917
77	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@268	21.69	21.66	24.69	19.75	0.0943

77	15	50	648334	3725.01	DFT-s-OFDM 64 QAM	135@67	20.28	20.39	23.35	18.41	0.0693
77	15	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@1	19.72	20.06	22.90	17.96	0.0626
77	15	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@268	20.57	20.59	23.59	18.65	0.0733
77	15	50	648334	3725.01	DFT-s-OFDM 256 QAM	135@67	18.41	18.22	21.33	16.39	0.0435
77	15	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@1	18.23	18.29	21.27	16.33	0.0430
77	15	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@268	18.3	18.38	21.35	16.41	0.0438
77	15	50	648334	3725.01	CP-OFDM QPSK	135@67	21.32	21.24	24.29	19.35	0.0861
77	15	50	648334	3725.01	CP-OFDM QPSK	1@1	21.29	21.35	24.33	19.39	0.0869
77	15	50	648334	3725.01	CP-OFDM QPSK	1@268	21.39	21.44	24.43	19.49	0.0888
77	15	50	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	22.75	23.1	25.94	21.00	0.1259
77	15	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	22.84	22.79	25.83	20.89	0.1226
77	15	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@268	22.7	23.35	26.05	21.11	0.1290
77	15	50	656000	3840	DFT-s-OFDM QPSK	135@67	22.75	23.05	25.91	20.97	0.1251
77	15	50	656000	3840	DFT-s-OFDM QPSK	1@1	22.89	22.77	25.84	20.90	0.1230
77	15	50	656000	3840	DFT-s-OFDM QPSK	1@268	22.66	23.15	25.92	20.98	0.1254
77	15	50	656000	3840	DFT-s-OFDM 16 QAM	135@67	21.76	22.1	24.94	20.00	0.1001
77	15	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	21.81	21.58	24.71	19.77	0.0948
77	15	50	656000	3840	DFT-s-OFDM 16 QAM	1@268	21.58	22.14	24.88	19.94	0.0986
77	15	50	656000	3840	DFT-s-OFDM 64 QAM	135@67	20.2	20.57	23.40	18.46	0.0701
77	15	50	656000	3840	DFT-s-OFDM 64 QAM	1@1	20.56	20.07	23.33	18.39	0.0691
77	15	50	656000	3840	DFT-s-OFDM 64 QAM	1@268	20.15	20.65	23.42	18.48	0.0704
77	15	50	656000	3840	DFT-s-OFDM 256 QAM	135@67	18.15	18.47	21.32	16.38	0.0435
77	15	50	656000	3840	DFT-s-OFDM 256 QAM	1@1	18.28	18.25	21.28	16.34	0.0430
77	15	50	656000	3840	DFT-s-OFDM 256 QAM	1@268	18.19	18.66	21.44	16.50	0.0447
77	15	50	656000	3840	CP-OFDM QPSK	135@67	21.42	21.34	24.39	19.45	0.0881
77	15	50	656000	3840	CP-OFDM QPSK	1@1	21.45	21.41	24.44	19.50	0.0891
77	15	50	656000	3840	CP-OFDM QPSK	1@268	21.53	21.53	24.54	19.60	0.0912
77	15	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	135@67	22.87	22.57	25.73	20.79	0.1200
77	15	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@1	22.77	22.53	25.66	20.72	0.1181
77	15	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@268	22.98	22.81	25.91	20.97	0.1249
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	135@67	22.92	22.57	25.76	20.82	0.1207
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	22.8	22.51	25.67	20.73	0.1182
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@268	22.94	22.77	25.87	20.93	0.1238
77	15	50	663666	3954.99	DFT-s-OFDM 16 QAM	135@67	21.92	21.52	24.73	19.79	0.0954



77	15	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	21.73	21.51	24.63	19.69	0.0931
77	15	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@268	21.97	21.79	24.89	19.95	0.0989
77	15	50	663666	3954.99	DFT-s-OFDM 64 QAM	135@67	20.46	20.05	23.27	18.33	0.0681
77	15	50	663666	3954.99	DFT-s-OFDM 64 QAM	1@1	20.44	20.21	23.34	18.40	0.0691
77	15	50	663666	3954.99	DFT-s-OFDM 64 QAM	1@268	20.23	20	23.13	18.19	0.0659
77	15	50	663666	3954.99	DFT-s-OFDM 256 QAM	135@67	18.33	18.04	21.20	16.26	0.0422
77	15	50	663666	3954.99	DFT-s-OFDM 256 QAM	1@1	18.21	18.03	21.13	16.19	0.0416
77	15	50	663666	3954.99	DFT-s-OFDM 256 QAM	1@268	18.36	18.26	21.32	16.38	0.0435
77	15	50	663666	3954.99	CP-OFDM QPSK	135@67	21.34	21.25	24.31	19.37	0.0864
77	15	50	663666	3954.99	CP-OFDM QPSK	1@1	21.3	21.01	24.17	19.23	0.0837
77	15	50	663666	3954.99	CP-OFDM QPSK	1@268	21.22	21.23	24.24	19.30	0.0850

## FR1 N77 SCS 15kHz (MIMO ANT3)

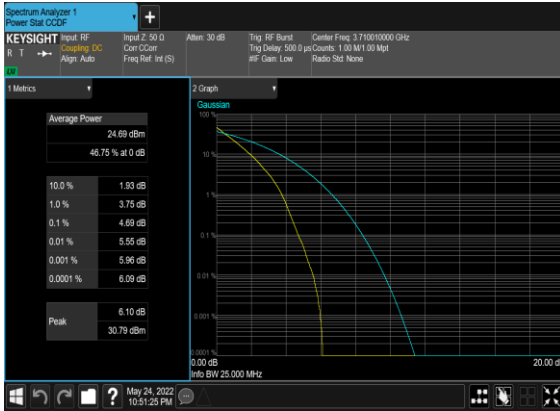
### Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.00496	PASS	NV
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.00485	PASS	LV
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.00551	PASS	HV
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.00654	PASS	-30°C
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.00226	PASS	-20°C
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.00216	PASS	-10°C
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.00268	PASS	0°C
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.00549	PASS	10°C
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.00421	PASS	20°C
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.00471	PASS	30°C
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.00286	PASS	40°C
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.00656	PASS	50°C

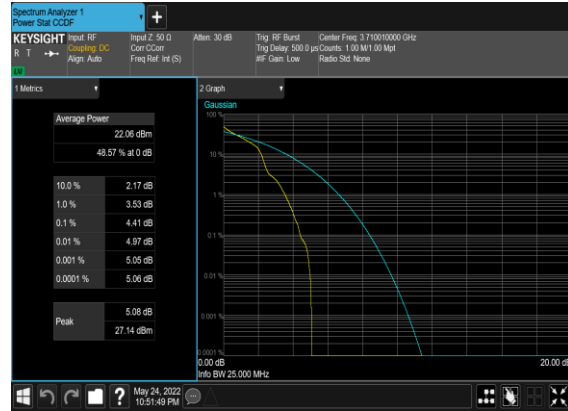
## Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	15	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	100@0	4.69	13	PASS
77	15	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@0	4.41	13	PASS
77	15	20	647334	3710.01	DFT-s-OFDM QPSK	100@0	5.92	13	PASS
77	15	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	5.42	13	PASS
77	15	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	100@0	4.64	13	PASS
77	15	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	1@0	4.68	13	PASS
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	5.9	13	PASS
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	5.66	13	PASS
77	15	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	100@0	4.62	13	PASS
77	15	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@0	4.38	13	PASS
77	15	20	664666	3969.99	DFT-s-OFDM QPSK	100@0	5.99	13	PASS
77	15	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	5.43	13	PASS

N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Low\_CH



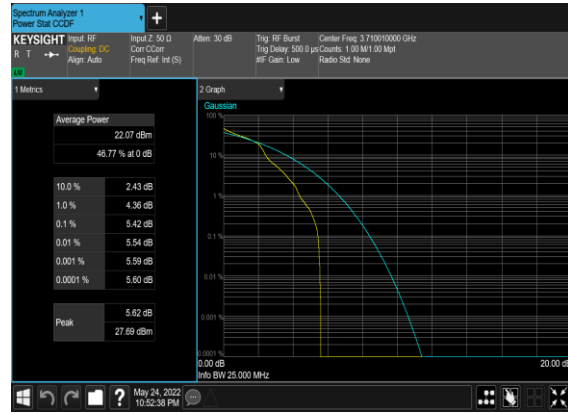
N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_Low\_CH



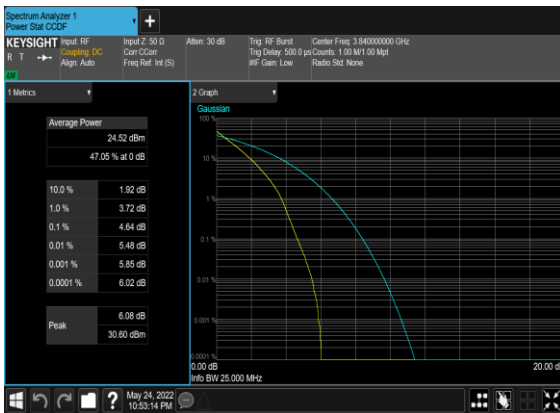
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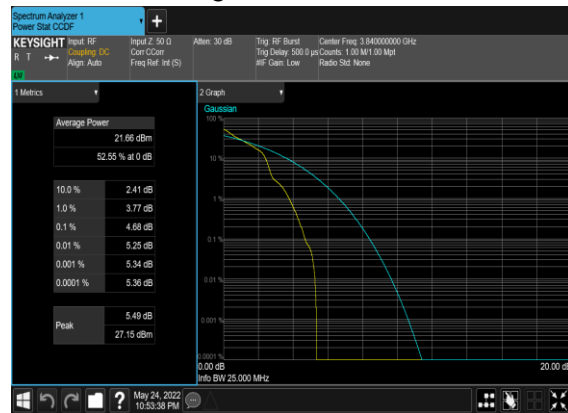
N77(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



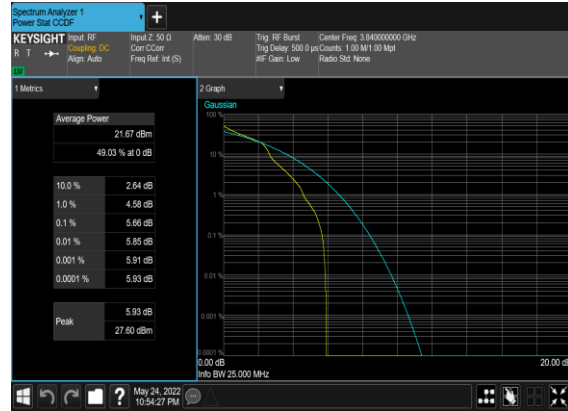
N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_Mid\_CH



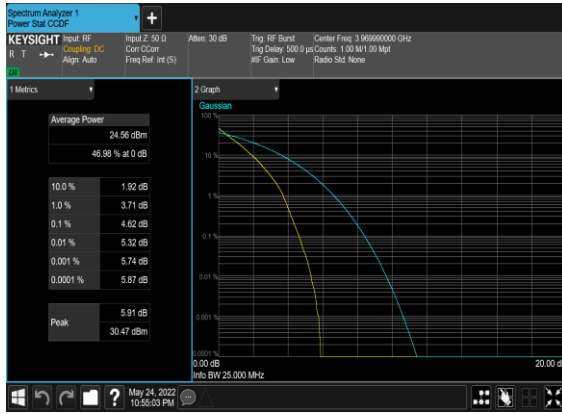
N77(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N77(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_High\_CH



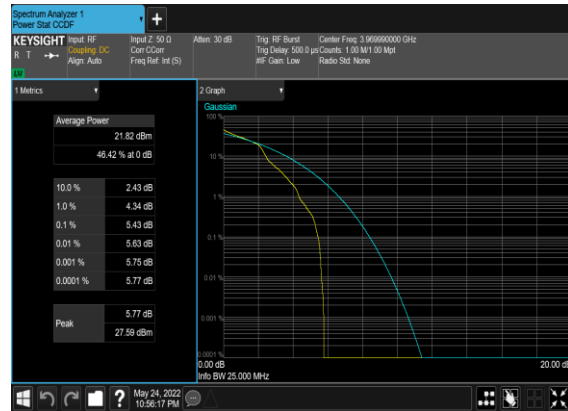
N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_High\_CH



N77(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



N77(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

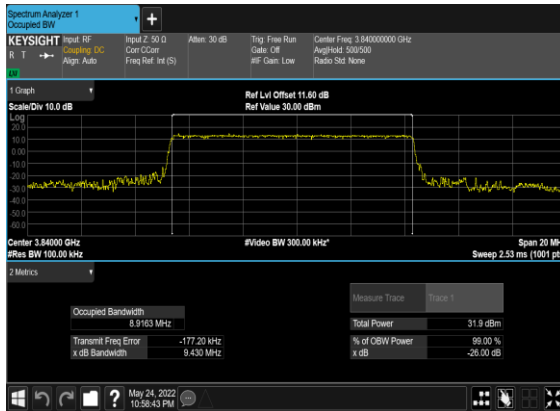


## Occupied Bandwidth

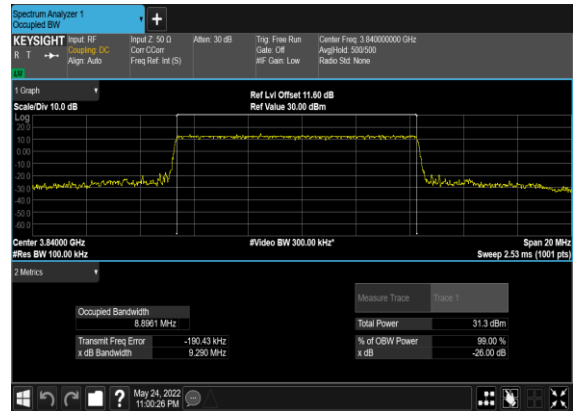
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
77	15	10	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	8.9163	9.43
77	15	10	656000	3840.0	DFT-s-OFDM QPSK	50@0	8.8961	9.29
77	15	10	656000	3840.0	CP-OFDM QPSK	52@0	9.2994	9.915
77	15	10	656000	3840.0	CP-OFDM 16 QAM	52@0	9.28	10.12
77	15	10	656000	3840.0	CP-OFDM 64 QAM	52@0	9.2734	9.821
77	15	10	656000	3840.0	CP-OFDM 256 QAM	52@0	9.2778	9.717
77	15	15	656000	3840.0	DFT-s-OFDM PI/2 BPSK	75@0	13.366	14.01
77	15	15	656000	3840.0	DFT-s-OFDM QPSK	75@0	13.383	13.99
77	15	15	656000	3840.0	CP-OFDM QPSK	79@0	14.118	14.66
77	15	15	656000	3840.0	CP-OFDM 16 QAM	79@0	14.092	14.75
77	15	15	656000	3840.0	CP-OFDM 64 QAM	79@0	14.099	14.68
77	15	15	656000	3840.0	CP-OFDM 256 QAM	79@0	14.111	14.7
77	15	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	100@0	17.882	18.62
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	17.898	18.48
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	18.919	19.63
77	15	20	656000	3840.0	CP-OFDM 16 QAM	106@0	18.894	22.66
77	15	20	656000	3840.0	CP-OFDM 64 QAM	106@0	18.883	19.65
77	15	20	656000	3840.0	CP-OFDM 256 QAM	106@0	18.921	19.8
77	15	25	656000	3840.0	DFT-s-OFDM PI/2 BPSK	128@0	22.837	23.6
77	15	25	656000	3840.0	DFT-s-OFDM QPSK	128@0	22.835	23.64
77	15	25	656000	3840.0	CP-OFDM QPSK	133@0	23.759	24.57
77	15	25	656000	3840.0	CP-OFDM 16 QAM	133@0	23.79	24.9
77	15	25	656000	3840.0	CP-OFDM 64 QAM	133@0	23.737	25.18
77	15	25	656000	3840.0	CP-OFDM 256 QAM	133@0	23.691	24.52
77	15	30	656000	3840.0	DFT-s-OFDM PI/2 BPSK	160@0	28.562	29.58

77	15	30	656000	3840.0	DFT-s-OFDM QPSK	160@0	28.622	29.71
77	15	30	656000	3840.0	CP-OFDM QPSK	160@0	28.543	29.65
77	15	30	656000	3840.0	CP-OFDM 16 QAM	160@0	28.57	29.6
77	15	30	656000	3840.0	CP-OFDM 64 QAM	160@0	28.506	29.63
77	15	30	656000	3840.0	CP-OFDM 256 QAM	160@0	28.574	29.91
77	15	40	656000	3840.0	DFT-s-OFDM PI/2 BPSK	216@0	38.525	39.88
77	15	40	656000	3840.0	DFT-s-OFDM QPSK	216@0	38.562	39.94
77	15	40	656000	3840.0	CP-OFDM QPSK	216@0	38.54	39.98
77	15	40	656000	3840.0	CP-OFDM 16 QAM	216@0	38.597	39.95
77	15	40	656000	3840.0	CP-OFDM 64 QAM	216@0	38.477	40.1
77	15	40	656000	3840.0	CP-OFDM 256 QAM	216@0	38.539	39.9
77	15	50	656000	3840.0	DFT-s-OFDM PI/2 BPSK	270@0	48.199	50.09
77	15	50	656000	3840.0	DFT-s-OFDM QPSK	270@0	48.181	49.82
77	15	50	656000	3840.0	CP-OFDM QPSK	270@0	48.194	49.8
77	15	50	656000	3840.0	CP-OFDM 16 QAM	270@0	48.114	49.75
77	15	50	656000	3840.0	CP-OFDM 64 QAM	270@0	48.146	49.99
77	15	50	656000	3840.0	CP-OFDM 256 QAM	270@0	48.107	49.84

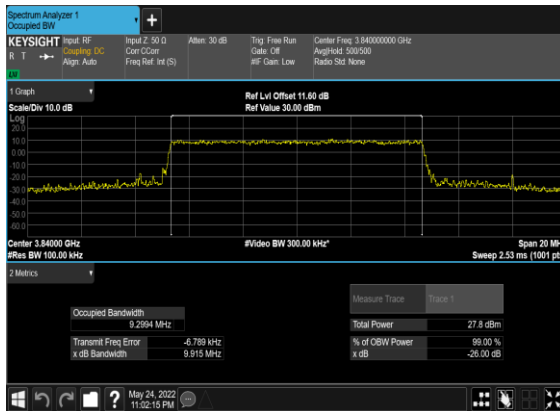
### N77(10M)\_DFT-s-OFDM\_PI\_2- BPSK\_Outer\_Full\_Mid\_CH



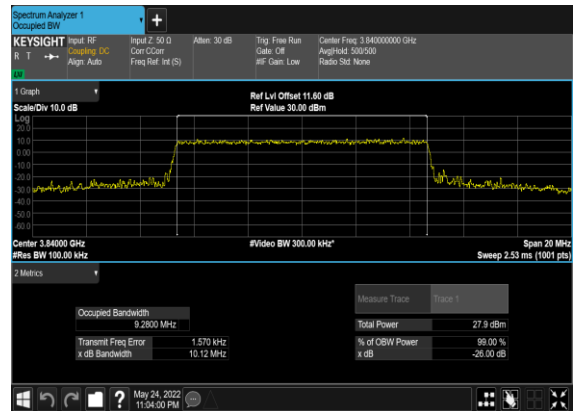
### N77(10M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



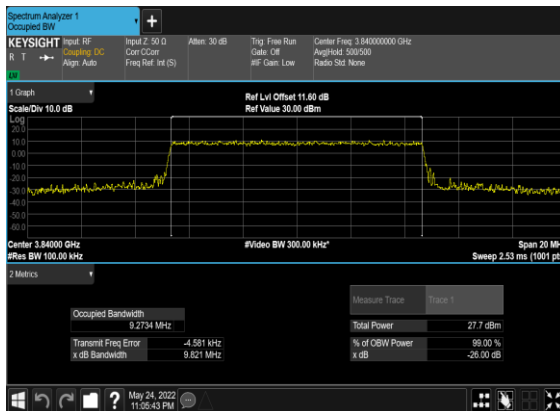
### N77(10M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



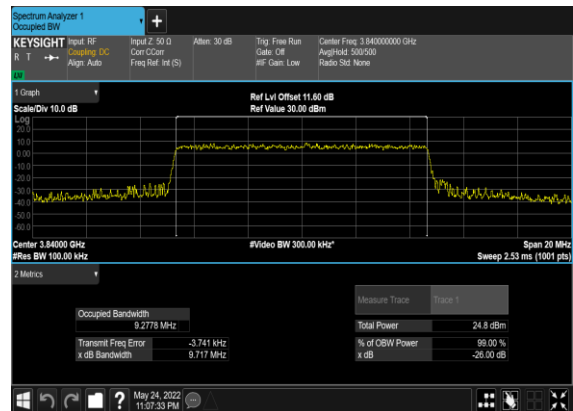
### N77(10M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



### N77(10M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH

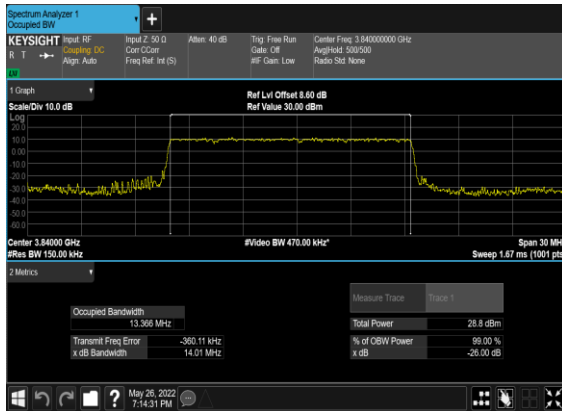


### N77(10M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH

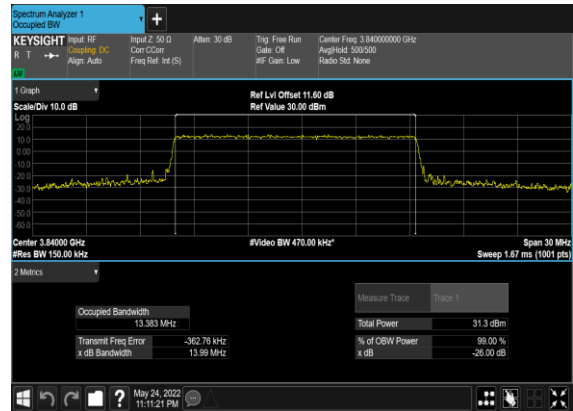




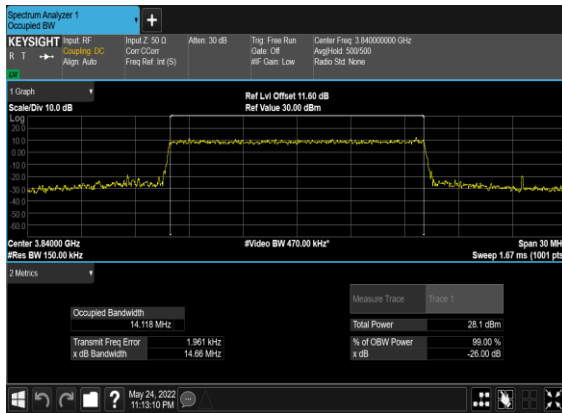
### N77(15M)\_DFT-s-OFDM\_PI\_2- BPSK\_Outer\_Full\_Mid\_CH



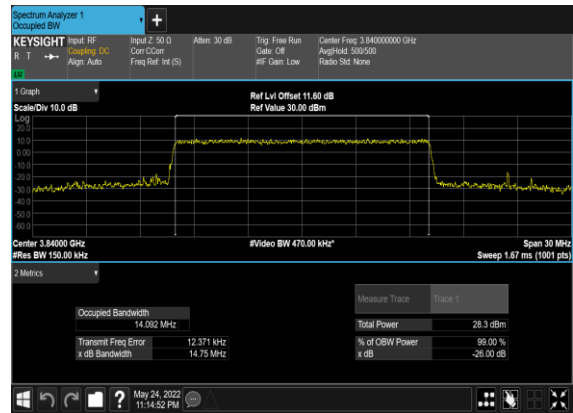
### N77(15M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



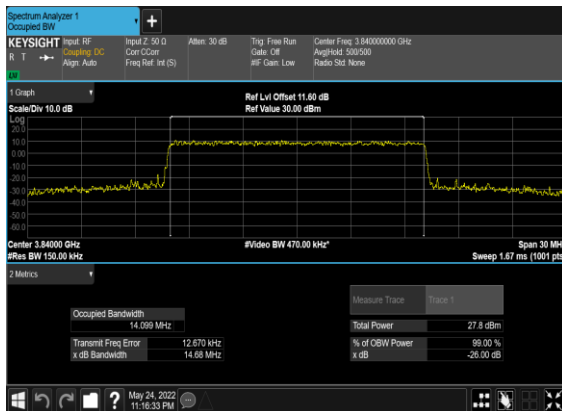
### N77(15M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



### N77(15M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



### N77(15M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



### N77(15M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH

