

8.4 Intra-Band Uplink CA Power

8.4.1 LTE Band7 Uplink CA Output Power

LTE Uplink 2CA_Band 7-State12-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	15.54	17.00
21100	21298	20	QPSK	1	Low	0	Low	1	15.56	17.00
21350	21152	20	QPSK	1	Low	0	Low	1	15.43	17.00

LTE Uplink 2CA_Band 7-State16-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	14.54	16.50
21100	21298	20	QPSK	1	Low	0	Low	1	14.62	16.50
21350	21152	20	QPSK	1	Low	0	Low	1	14.56	16.50

LTE Uplink 2CA_Band 7-State18-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	11.79	13.50
21100	21298	20	QPSK	1	Low	0	Low	1	11.74	13.50
21350	21152	20	QPSK	1	Low	0	Low	1	11.83	13.50

LTE Uplink 2CA_Band 7-State20-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	12.32	14.00
21100	21298	20	QPSK	1	Low	0	Low	1	12.28	14.00
21350	21152	20	QPSK	1	Low	0	Low	1	12.29	14.00

LTE Uplink 2CA_Band 7-State11-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	18.34	20.00
21100	21298	20	QPSK	1	Low	0	Low	1	18.43	20.00
21350	21152	20	QPSK	1	Low	0	Low	1	18.28	20.00

LTE Uplink 2CA_Band 7-State15-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	18.34	20.00
21100	21298	20	QPSK	1	Low	0	Low	1	18.43	20.00
21350	21152	20	QPSK	1	Low	0	Low	1	18.28	20.00

LTE Uplink 2CA_Band 7-State17-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	16.62	18.50
21100	21298	20	QPSK	1	Low	0	Low	1	16.68	18.50
21350	21152	20	QPSK	1	Low	0	Low	1	16.55	18.50

LTE Uplink 2CA_Band 7-State19-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	16.29	18.00
21100	21298	20	QPSK	1	Low	0	Low	1	16.31	18.00
21350	21152	20	QPSK	1	Low	0	Low	1	16.22	18.00

LTE Uplink 2CA_Band 7-State12-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	22.34	24.00
21100	21298	20	QPSK	1	Low	0	Low	1	22.40	24.00
21350	21152	20	QPSK	1	Low	0	Low	1	22.46	24.00

LTE Uplink 2CA_Band 7-State16-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	22.34	24.00
21100	21298	20	QPSK	1	Low	0	Low	1	22.40	24.00
21350	21152	20	QPSK	1	Low	0	Low	1	22.46	24.00

LTE Uplink 2CA_Band 7-State18-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	22.34	24.00
21100	21298	20	QPSK	1	Low	0	Low	1	22.40	24.00
21350	21152	20	QPSK	1	Low	0	Low	1	22.46	24.00

LTE Uplink 2CA_Band 7-State20-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	22.34	24.00
21100	21298	20	QPSK	1	Low	0	Low	1	22.40	24.00
21350	21152	20	QPSK	1	Low	0	Low	1	22.46	24.00

LTE Uplink 2CA_Band 7-State11-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	20.19	22.00
21100	21298	20	QPSK	1	Low	0	Low	1	20.14	22.00
21350	21152	20	QPSK	1	Low	0	Low	1	20.16	22.00

LTE Uplink 2CA_Band 7-State15-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	20.19	22.00
21100	21298	20	QPSK	1	Low	0	Low	1	20.14	22.00
21350	21152	20	QPSK	1	Low	0	Low	1	20.16	22.00

LTE Uplink 2CA_Band 7-State17-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	19.28	21.00
21100	21298	20	QPSK	1	Low	0	Low	1	19.26	21.00
21350	21152	20	QPSK	1	Low	0	Low	1	19.23	21.00

LTE Uplink 2CA_Band 7-State19-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
20850	21048	20	QPSK	1	Low	0	Low	1	19.28	21.00
21100	21298	20	QPSK	1	Low	0	Low	1	19.26	21.00
21350	21152	20	QPSK	1	Low	0	Low	1	19.23	21.00

8.4.2 LTE Band38 Uplink CA Output Power

LTE Uplink 2CA_Band 38-State12-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1	18.84	20.00
38099	37901	20	QPSK	1	Low	0	Low	1	18.76	20.00
38150	37952	20	QPSK	1	Low	0	Low	1	18.78	20.00

LTE Uplink 2CA_Band 38-State16-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1	16.45	17.50
38099	37901	20	QPSK	1	Low	0	Low	1	16.42	17.50
38150	37952	20	QPSK	1	Low	0	Low	1	16.56	17.50

LTE Uplink 2CA_Band 38-State18-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1	16.04	17.00
38099	37901	20	QPSK	1	Low	0	Low	1	16.02	17.00
38150	37952	20	QPSK	1	Low	0	Low	1	16.11	17.00

LTE Uplink 2CA_Band 38-State20-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1	16.04	17.00
38099	37901	20	QPSK	1	Low	0	Low	1	16.02	17.00
38150	37952	20	QPSK	1	Low	0	Low	1	16.11	17.00

LTE Uplink 2CA_Band 38-State11-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1	20.74	22.00
38099	37901	20	QPSK	1	Low	0	Low	1	20.78	22.00
38150	37952	20	QPSK	1	Low	0	Low	1	20.85	22.00

LTE Uplink 2CA_Band 38-State15-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1	19.54	20.50
38099	37901	20	QPSK	1	Low	0	Low	1	19.69	20.50
38150	37952	20	QPSK	1	Low	0	Low	1	19.75	20.50

LTE Uplink 2CA_Band 38-State17-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1		
38099	37901	20	QPSK	1	Low	0	Low	1		
38150	37952	20	QPSK	1	Low	0	Low	1		

LTE Uplink 2CA_Band 38-State19-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1		
38099	37901	20	QPSK	1	Low	0	Low	1		
38150	37952	20	QPSK	1	Low	0	Low	1		

LTE Uplink 2CA_Band 38-State12-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1		
38099	37901	20	QPSK	1	Low	0	Low	1		
38150	37952	20	QPSK	1	Low	0	Low	1		

LTE Uplink 2CA_Band 38-State16-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1		
38099	37901	20	QPSK	1	Low	0	Low	1		
38150	37952	20	QPSK	1	Low	0	Low	1		

LTE Uplink 2CA_Band 38-State18-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1	22.79	24.00
38099	37901	20	QPSK	1	Low	0	Low	1	22.82	24.00
38150	37952	20	QPSK	1	Low	0	Low	1	22.86	24.00

LTE Uplink 2CA_Band 38-State20-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1	22.79	24.00
38099	37901	20	QPSK	1	Low	0	Low	1	22.82	24.00
38150	37952	20	QPSK	1	Low	0	Low	1	22.86	24.00

LTE Uplink 2CA_Band 38-State11-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1	21.23	22.00
38099	37901	20	QPSK	1	Low	0	Low	1	21.20	22.00
38150	37952	20	QPSK	1	Low	0	Low	1	21.35	22.00

LTE Uplink 2CA_Band 38-State15-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1	19.78	21.00
38099	37901	20	QPSK	1	Low	0	Low	1	19.82	21.00
38150	37952	20	QPSK	1	Low	0	Low	1	19.90	21.00

LTE Uplink 2CA_Band 38-State17-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1	19.28	20.50
38099	37901	20	QPSK	1	Low	0	Low	1	19.31	20.50
38150	37952	20	QPSK	1	Low	0	Low	1	19.30	20.50

LTE Uplink 2CA_Band 38-State19-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
37850	38048	20	QPSK	1	Low	0	Low	1	19.28	20.50
38099	37901	20	QPSK	1	Low	0	Low	1	19.31	20.50
38150	37952	20	QPSK	1	Low	0	Low	1	19.30	20.50

8.4.3 LTE Band41 Uplink CA Output Power

LTE Uplink 2CA_Band 41-State12-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	19.32	20.50
40185	40383	20	QPSK	1	Low	0	Low	1	19.36	20.50
40620	40818	20	QPSK	1	Low	0	Low	1	19.42	20.50
41055	40857	20	QPSK	1	Low	0	Low	1	19.34	20.50
41490	41292	20	QPSK	1	Low	0	Low	1	19.53	20.50

LTE Uplink 2CA_Band 41-State16-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	15.94	18.00
40185	40383	20	QPSK	1	Low	0	Low	1	16.03	18.00
40620	40818	20	QPSK	1	Low	0	Low	1	16.09	18.00
41055	40857	20	QPSK	1	Low	0	Low	1	16.08	18.00
41490	41292	20	QPSK	1	Low	0	Low	1	16.15	18.00

LTE Uplink 2CA_Band 41-State18-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	15.42	17.50
40185	40383	20	QPSK	1	Low	0	Low	1	15.45	17.50
40620	40818	20	QPSK	1	Low	0	Low	1	15.53	17.50
41055	40857	20	QPSK	1	Low	0	Low	1	15.53	17.50
41490	41292	20	QPSK	1	Low	0	Low	1	18.60	17.50

LTE Uplink 2CA_Band 41-State20-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	15.42	17.50
40185	40383	20	QPSK	1	Low	0	Low	1	15.45	17.50
40620	40818	20	QPSK	1	Low	0	Low	1	15.53	17.50
41055	40857	20	QPSK	1	Low	0	Low	1	15.53	17.50
41490	41292	20	QPSK	1	Low	0	Low	1	18.60	17.50

LTE Uplink 2CA_Band 41-State11-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	20.47	22.50
40185	40383	20	QPSK	1	Low	0	Low	1	20.46	22.50
40620	40818	20	QPSK	1	Low	0	Low	1	20.52	22.50
41055	40857	20	QPSK	1	Low	0	Low	1	20.43	22.50
41490	41292	20	QPSK	1	Low	0	Low	1	20.65	22.50

LTE Uplink 2CA_Band 41-State15-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	20.32	21.00
40185	40383	20	QPSK	1	Low	0	Low	1	20.36	21.00
40620	40818	20	QPSK	1	Low	0	Low	1	20.45	21.00
41055	40857	20	QPSK	1	Low	0	Low	1	20.43	21.00
41490	41292	20	QPSK	1	Low	0	Low	1	20.59	21.00

LTE Uplink 2CA_Band 41-State17-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	20.32	21.00
40185	40383	20	QPSK	1	Low	0	Low	1	20.36	21.00
40620	40818	20	QPSK	1	Low	0	Low	1	20.45	21.00
41055	40857	20	QPSK	1	Low	0	Low	1	20.43	21.00
41490	41292	20	QPSK	1	Low	0	Low	1	20.59	21.00

LTE Uplink 2CA_Band 41-State19-Ant.1										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	20.32	21.00
40185	40383	20	QPSK	1	Low	0	Low	1	20.36	21.00
40620	40818	20	QPSK	1	Low	0	Low	1	20.45	21.00
41055	40857	20	QPSK	1	Low	0	Low	1	20.43	21.00
41490	41292	20	QPSK	1	Low	0	Low	1	20.59	21.00

LTE Uplink 2CA_Band 41-State12-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	22.74	24.50
40185	40383	20	QPSK	1	Low	0	Low	1	22.82	24.50
40620	40818	20	QPSK	1	Low	0	Low	1	22.89	24.50
41055	40857	20	QPSK	1	Low	0	Low	1	22.92	24.50
41490	41292	20	QPSK	1	Low	0	Low	1	22.95	24.50

LTE Uplink 2CA_Band 41-State16-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	22.74	24.50
40185	40383	20	QPSK	1	Low	0	Low	1	22.82	24.50
40620	40818	20	QPSK	1	Low	0	Low	1	22.89	24.50
41055	40857	20	QPSK	1	Low	0	Low	1	22.92	24.50
41490	41292	20	QPSK	1	Low	0	Low	1	22.95	24.50

LTE Uplink 2CA_Band 41-State18-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	22.74	24.50
40185	40383	20	QPSK	1	Low	0	Low	1	22.82	24.50
40620	40818	20	QPSK	1	Low	0	Low	1	22.89	24.50
41055	40857	20	QPSK	1	Low	0	Low	1	22.92	24.50
41490	41292	20	QPSK	1	Low	0	Low	1	22.95	24.50

LTE Uplink 2CA_Band 41-State20-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	22.74	24.50
40185	40383	20	QPSK	1	Low	0	Low	1	22.82	24.50
40620	40818	20	QPSK	1	Low	0	Low	1	22.89	24.50
41055	40857	20	QPSK	1	Low	0	Low	1	22.92	24.50
41490	41292	20	QPSK	1	Low	0	Low	1	22.95	24.50

LTE Uplink 2CA_Band 41-State11-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	20.42	22.50
40185	40383	20	QPSK	1	Low	0	Low	1	20.49	22.50
40620	40818	20	QPSK	1	Low	0	Low	1	20.56	22.50
41055	40857	20	QPSK	1	Low	0	Low	1	20.56	22.50
41490	41292	20	QPSK	1	Low	0	Low	1	20.62	22.50

LTE Uplink 2CA_Band 41-State15-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	20.04	21.50
40185	40383	20	QPSK	1	Low	0	Low	1	20.09	21.50
40620	40818	20	QPSK	1	Low	0	Low	1	20.11	21.50
41055	40857	20	QPSK	1	Low	0	Low	1	20.07	21.50
41490	41292	20	QPSK	1	Low	0	Low	1	20.16	21.50

LTE Uplink 2CA_Band 41-State17-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	19.45	21.00
40185	40383	20	QPSK	1	Low	0	Low	1	19.42	21.00
40620	40818	20	QPSK	1	Low	0	Low	1	19.58	21.00
41055	40857	20	QPSK	1	Low	0	Low	1	19.54	21.00
41490	41292	20	QPSK	1	Low	0	Low	1	19.63	21.00

LTE Uplink 2CA_Band 41-State19-Ant.0										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.			
39750	39948	20	QPSK	1	Low	0	Low	1	19.45	21.00
40185	40383	20	QPSK	1	Low	0	Low	1	19.42	21.00
40620	40818	20	QPSK	1	Low	0	Low	1	19.58	21.00
41055	40857	20	QPSK	1	Low	0	Low	1	19.54	21.00
41490	41292	20	QPSK	1	Low	0	Low	1	19.63	21.00

8.5 Intra-Band Uplink CA Power

8.5.1 NR Band5 Output Power

5G N5-State 12 -Ant.1							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.84	23.61	23.66	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.93	23.99	23.97	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.72	23.70	24.02	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.98	23.87	23.90	24.20
		1	53	23.92	23.79	23.74	24.20
		1	104	23.88	23.85	23.84	24.20
	DFT-s-OFDM BPSK	50	0	24.10	23.94	24.02	24.20
		50	28	23.85	23.91	23.83	24.20
		50	56	23.76	23.92	23.79	24.20
	DFT-s-OFDM BPSK	100	0	23.87	23.79	23.71	24.20
	DFT-s-OFDM QPSK	1	1	23.98	23.75	23.71	24.20
	DFT-s-OFDM 16QAM	1	1	22.57	22.52	22.45	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.92	21.00	22.20
	DFT-s-OFDM	1	1	19.13	19.13	19.07	20.20
	CP-OFDM QPSK	1	1	21.98	22.22	22.33	23.20
	CP-OFDM 16QAM	1	1	21.91	21.93	21.89	22.70
	CP-OFDM 64QAM	1	1	19.90	19.82	19.76	21.20
CP-OFDM 256QAM	1	1	16.86	16.98	17.03	17.70	

5G N5-State 16 -Ant.1							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.84	23.61	23.66	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.93	23.99	23.97	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.72	23.70	24.02	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.98	23.87	23.90	24.20
		1	53	23.92	23.79	23.74	24.20
		1	104	23.88	23.85	23.84	24.20
	DFT-s-OFDM BPSK	50	0	24.10	23.94	24.02	24.20
		50	28	23.85	23.91	23.83	24.20
		50	56	23.76	23.92	23.79	24.20
	DFT-s-OFDM BPSK	100	0	23.87	23.79	23.71	24.20
	DFT-s-OFDM QPSK	1	1	23.98	23.75	23.71	24.20
	DFT-s-OFDM 16QAM	1	1	22.57	22.52	22.45	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.92	21.00	22.20
	DFT-s-OFDM	1	1	19.13	19.13	19.07	20.20
	CP-OFDM QPSK	1	1	21.98	22.22	22.33	23.20
	CP-OFDM 16QAM	1	1	21.91	21.93	21.89	22.70
	CP-OFDM 64QAM	1	1	19.90	19.82	19.76	21.20
CP-OFDM 256QAM	1	1	16.86	16.98	17.03	17.70	

5G N5-State 18 -Ant.1							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1				22.70
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1				22.70
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1				22.70
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	21.99	22.14	22.02	22.70
		1	53	21.96	22.10	21.98	22.70
		1	104	21.87	22.10	21.91	22.70
	DFT-s-OFDM BPSK	50	0	21.83	21.98	21.93	22.70
		50	28	22.07	22.10	21.80	22.70
		50	56	21.62	22.01	21.68	22.70
	DFT-s-OFDM BPSK	100	0	21.96	22.08	21.87	22.70
	DFT-s-OFDM QPSK	1	1	21.64	21.82	21.65	22.70
	DFT-s-OFDM 16QAM	1	1	21.41	21.41	21.23	22.70
	DFT-s-OFDM 64QAM	1	1	20.69	20.79	20.92	22.20
	DFT-s-OFDM	1	1	18.94	19.05	18.96	20.20
	CP-OFDM QPSK	1	1	22.02	21.98	21.86	22.70
	CP-OFDM 16QAM	1	1	21.82	21.78	21.74	22.70
	CP-OFDM 64QAM	1	1	19.76	19.78	19.86	21.20
CP-OFDM 256QAM	1	1	16.84	16.91	17.01	17.70	

power set
220

5G N5-State 20 -Ant.1							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.84	23.61	23.66	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.93	23.99	23.97	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.72	23.70	24.02	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.98	23.87	23.90	24.20
		1	53	23.92	23.79	23.74	24.20
		1	104	23.88	23.85	23.84	24.20
	DFT-s-OFDM BPSK	50	0	24.10	23.94	24.02	24.20
		50	28	23.85	23.91	23.83	24.20
		50	56	23.76	23.92	23.79	24.20
	DFT-s-OFDM BPSK	100	0	23.87	23.79	23.71	24.20
	DFT-s-OFDM QPSK	1	1	23.98	23.75	23.71	24.20
	DFT-s-OFDM 16QAM	1	1	22.57	22.52	22.45	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.92	21.00	22.20
	DFT-s-OFDM	1	1	19.13	19.13	19.07	20.20
	CP-OFDM QPSK	1	1	21.98	22.22	22.33	23.20
	CP-OFDM 16QAM	1	1	21.91	21.93	21.89	22.70
	CP-OFDM 64QAM	1	1	19.90	19.82	19.76	21.20
CP-OFDM 256QAM	1	1	16.86	16.98	17.03	17.70	

tting

5G N5-State 11 -Ant.1							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.84	23.61	23.66	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.93	23.99	23.97	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.72	23.70	24.02	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.98	23.87	23.90	24.20
		1	53	23.92	23.79	23.74	24.20
		1	104	23.88	23.85	23.84	24.20
	DFT-s-OFDM BPSK	50	0	24.10	23.94	24.02	24.20
		50	28	23.85	23.91	23.83	24.20
		50	56	23.76	23.92	23.79	24.20
	DFT-s-OFDM BPSK	100	0	23.87	23.79	23.71	24.20
	DFT-s-OFDM QPSK	1	1	23.98	23.75	23.71	24.20
	DFT-s-OFDM 16QAM	1	1	22.57	22.52	22.45	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.92	21.00	22.20
	DFT-s-OFDM	1	1	19.13	19.13	19.07	20.20
	CP-OFDM QPSK	1	1	21.98	22.22	22.33	23.20
	CP-OFDM 16QAM	1	1	21.91	21.93	21.89	22.70
	CP-OFDM 64QAM	1	1	19.90	19.82	19.76	21.20
CP-OFDM 256QAM	1	1	16.86	16.98	17.03	17.70	

5G N5-State 15 -Ant.1							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.84	23.61	23.66	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.93	23.99	23.97	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.72	23.70	24.02	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.98	23.87	23.90	24.20
		1	53	23.92	23.79	23.74	24.20
		1	104	23.88	23.85	23.84	24.20
	DFT-s-OFDM BPSK	50	0	24.10	23.94	24.02	24.20
		50	28	23.85	23.91	23.83	24.20
		50	56	23.76	23.92	23.79	24.20
	DFT-s-OFDM BPSK	100	0	23.87	23.79	23.71	24.20
	DFT-s-OFDM QPSK	1	1	23.98	23.75	23.71	24.20
	DFT-s-OFDM 16QAM	1	1	22.57	22.52	22.45	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.92	21.00	22.20
	DFT-s-OFDM	1	1	19.13	19.13	19.07	20.20
	CP-OFDM QPSK	1	1	21.98	22.22	22.33	23.20
	CP-OFDM 16QAM	1	1	21.91	21.93	21.89	22.70
	CP-OFDM 64QAM	1	1	19.90	19.82	19.76	21.20
CP-OFDM 256QAM	1	1	16.86	16.98	17.03	17.70	

5G N5-State 17 -Ant.1							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.84	23.61	23.66	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.93	23.99	23.97	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.72	23.70	24.02	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.98	23.87	23.90	24.20
		1	53	23.92	23.79	23.74	24.20
		1	104	23.88	23.85	23.84	24.20
	DFT-s-OFDM BPSK	50	0	24.10	23.94	24.02	24.20
		50	28	23.85	23.91	23.83	24.20
		50	56	23.76	23.92	23.79	24.20
	DFT-s-OFDM BPSK	100	0	23.87	23.79	23.71	24.20
	DFT-s-OFDM QPSK	1	1	23.98	23.75	23.71	24.20
	DFT-s-OFDM 16QAM	1	1	22.57	22.52	22.45	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.92	21.00	22.20
	DFT-s-OFDM	1	1	19.13	19.13	19.07	20.20
	CP-OFDM QPSK	1	1	21.98	22.22	22.33	23.20
	CP-OFDM 16QAM	1	1	21.91	21.93	21.89	22.70
	CP-OFDM 64QAM	1	1	19.90	19.82	19.76	21.20
CP-OFDM 256QAM	1	1	16.86	16.98	17.03	17.70	

5G N5-State 19 -Ant.1							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.84	23.61	23.66	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.93	23.99	23.97	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.72	23.70	24.02	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.98	23.87	23.90	24.20
		1	53	23.92	23.79	23.74	24.20
		1	104	23.88	23.85	23.84	24.20
	DFT-s-OFDM BPSK	50	0	24.10	23.94	24.02	24.20
		50	28	23.85	23.91	23.83	24.20
		50	56	23.76	23.92	23.79	24.20
	DFT-s-OFDM BPSK	100	0	23.87	23.79	23.71	24.20
	DFT-s-OFDM QPSK	1	1	23.98	23.75	23.71	24.20
	DFT-s-OFDM 16QAM	1	1	22.57	22.52	22.45	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.92	21.00	22.20
	DFT-s-OFDM	1	1	19.13	19.13	19.07	20.20
	CP-OFDM QPSK	1	1	21.98	22.22	22.33	23.20
	CP-OFDM 16QAM	1	1	21.91	21.93	21.89	22.70
	CP-OFDM 64QAM	1	1	19.90	19.82	19.76	21.20
CP-OFDM 256QAM	1	1	16.86	16.98	17.03	17.70	

5G N5-State 12 -Ant.1 (NSA)							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	22.68	22.89	22.54	23.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	22.73	22.62	22.81	23.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	22.86	22.92	22.58	23.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	22.91	22.87	22.74	23.20
		1	53	22.92	22.79	22.69	23.20
		1	104	22.90	22.78	22.66	23.20
	DFT-s-OFDM BPSK	50	0	23.03	22.99	22.81	23.20
		50	28	22.78	22.93	22.58	23.20
		50	56	22.76	22.99	22.56	23.20
	DFT-s-OFDM BPSK	100	0	22.92	22.81	22.51	23.20
	DFT-s-OFDM QPSK	1	1	23.00	22.66	22.66	23.20
	DFT-s-OFDM 16QAM	1	1	22.34	22.41	22.43	23.20
	DFT-s-OFDM 64QAM	1	1	20.69	20.88	20.94	22.20
	DFT-s-OFDM	1	1	19.11	18.98	18.99	20.20
	CP-OFDM QPSK	1	1	21.83	22.20	22.44	23.20
	CP-OFDM 16QAM	1	1	21.98	21.73	21.67	22.70
	CP-OFDM 64QAM	1	1	19.82	19.76	19.64	21.20
CP-OFDM 256QAM	1	1	16.88	16.81	17.12	17.70	

5G N5-State 16 -Ant.1 (NSA)							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	21.97	22.14	22.06	22.70
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	22.10	22.12	22.11	22.70
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	21.97	22.05	22.04	22.70
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	21.99	22.14	22.02	22.70
		1	53	21.96	22.10	21.98	22.70
		1	104	21.87	22.10	21.91	22.70
	DFT-s-OFDM BPSK	50	0	21.83	21.98	21.93	22.70
		50	28	22.07	22.10	21.80	22.70
		50	56	21.62	22.01	21.68	22.70
	DFT-s-OFDM BPSK	100	0	21.96	22.08	21.87	22.70
	DFT-s-OFDM QPSK	1	1	21.64	21.82	21.65	22.70
	DFT-s-OFDM 16QAM	1	1	21.41	21.41	21.23	22.70
	DFT-s-OFDM 64QAM	1	1	20.69	20.79	20.92	22.20
	DFT-s-OFDM	1	1	18.94	19.05	18.96	20.20
	CP-OFDM QPSK	1	1	22.02	21.98	21.86	22.70
	CP-OFDM 16QAM	1	1	21.82	21.78	21.74	22.70
	CP-OFDM 64QAM	1	1	19.76	19.78	19.86	21.20
CP-OFDM 256QAM	1	1	16.84	16.91	17.01	17.70	

5G N5-State 18 -Ant.1 (NSA)							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	18.74	18.89	18.73	19.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	18.81	18.82	18.92	19.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	18.57	18.91	19.02	19.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	18.72	18.97	18.94	19.20
		1	53	18.71	18.81	18.53	19.20
		1	104	18.68	18.83	18.79	19.20
	DFT-s-OFDM BPSK	50	0	18.83	18.97	18.94	19.20
		50	28	18.87	18.79	18.79	19.20
		50	56	18.90	18.74	18.58	19.20
	DFT-s-OFDM BPSK	100	0	18.76	18.79	18.56	19.20
	DFT-s-OFDM QPSK	1	1	18.92	18.54	18.75	19.20
	DFT-s-OFDM 16QAM	1	1	19.01	18.94	18.84	19.20
	DFT-s-OFDM 64QAM	1	1	18.69	19.00	18.85	19.20
	DFT-s-OFDM	1	1	18.99	18.97	18.66	19.20
	CP-OFDM QPSK	1	1	19.00	18.90	18.86	19.20
	CP-OFDM 16QAM	1	1	18.74	18.84	18.83	19.20
	CP-OFDM 64QAM	1	1	18.69	18.88	18.84	19.20
CP-OFDM 256QAM	1	1	16.89	16.82	16.87	17.70	

5G N5-State 20 -Ant.1 (NSA)							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	21.97	22.14	22.06	22.70
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	22.10	22.12	22.11	22.70
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	21.97	22.05	22.04	22.70
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	21.99	22.14	22.02	22.70
		1	53	21.96	22.10	21.98	22.70
		1	104	21.87	22.10	21.91	22.70
	DFT-s-OFDM BPSK	50	0	21.83	21.98	21.93	22.70
		50	28	22.07	22.10	21.80	22.70
		50	56	21.62	22.01	21.68	22.70
	DFT-s-OFDM BPSK	100	0	21.96	22.08	21.87	22.70
	DFT-s-OFDM QPSK	1	1	21.64	21.82	21.65	22.70
	DFT-s-OFDM 16QAM	1	1	21.41	21.41	21.23	22.70
	DFT-s-OFDM 64QAM	1	1	20.69	20.79	20.92	22.20
	DFT-s-OFDM	1	1	18.94	19.05	18.96	20.20
	CP-OFDM QPSK	1	1	22.02	21.98	21.86	22.70
	CP-OFDM 16QAM	1	1	21.82	21.78	21.74	22.70
	CP-OFDM 64QAM	1	1	19.76	19.78	19.86	21.20
CP-OFDM 256QAM	1	1	16.84	16.91	17.01	17.70	

5G N5-State 11 -Ant.1 (NSA)							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.84	23.61	23.66	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.93	23.99	23.97	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.72	23.70	24.02	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.98	23.87	23.90	24.20
		1	53	23.92	23.79	23.74	24.20
		1	104	23.88	23.85	23.84	24.20
	DFT-s-OFDM BPSK	50	0	24.10	23.94	24.02	24.20
		50	28	23.85	23.91	23.83	24.20
		50	56	23.76	23.92	23.79	24.20
	DFT-s-OFDM BPSK	100	0	23.87	23.79	23.71	24.20
	DFT-s-OFDM QPSK	1	1	23.98	23.75	23.71	24.20
	DFT-s-OFDM 16QAM	1	1	22.57	22.52	22.45	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.92	21.00	22.20
	DFT-s-OFDM	1	1	19.13	19.13	19.07	20.20
	CP-OFDM QPSK	1	1	21.98	22.22	22.33	23.20
	CP-OFDM 16QAM	1	1	21.91	21.93	21.89	22.70
	CP-OFDM 64QAM	1	1	19.90	19.82	19.76	21.20
CP-OFDM 256QAM	1	1	16.86	16.98	17.03	17.70	

5G N5-State 15 -Ant.1 (NSA)							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.84	23.61	23.66	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.93	23.99	23.97	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.72	23.70	24.02	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.98	23.87	23.90	24.20
		1	53	23.92	23.79	23.74	24.20
		1	104	23.88	23.85	23.84	24.20
	DFT-s-OFDM BPSK	50	0	24.10	23.94	24.02	24.20
		50	28	23.85	23.91	23.83	24.20
		50	56	23.76	23.92	23.79	24.20
	DFT-s-OFDM BPSK	100	0	23.87	23.79	23.71	24.20
	DFT-s-OFDM QPSK	1	1	23.98	23.75	23.71	24.20
	DFT-s-OFDM 16QAM	1	1	22.57	22.52	22.45	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.92	21.00	22.20
	DFT-s-OFDM	1	1	19.13	19.13	19.07	20.20
	CP-OFDM QPSK	1	1	21.98	22.22	22.33	23.20
	CP-OFDM 16QAM	1	1	21.91	21.93	21.89	22.70
	CP-OFDM 64QAM	1	1	19.90	19.82	19.76	21.20
CP-OFDM 256QAM	1	1	16.86	16.98	17.03	17.70	

5G N5-State 17 -Ant.1 (NSA)							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	22.68	22.89	22.54	23.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	22.73	22.62	22.81	23.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	22.86	22.92	22.58	23.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	22.91	22.87	22.74	23.20
		1	53	22.92	22.79	22.69	23.20
		1	104	22.90	22.78	22.66	23.20
	DFT-s-OFDM BPSK	50	0	23.03	22.99	22.81	23.20
		50	28	22.78	22.93	22.58	23.20
		50	56	22.76	22.99	22.56	23.20
	DFT-s-OFDM BPSK	100	0	22.92	22.81	22.51	23.20
	DFT-s-OFDM QPSK	1	1	23.00	22.66	22.66	23.20
	DFT-s-OFDM 16QAM	1	1	22.34	22.41	22.43	23.20
	DFT-s-OFDM 64QAM	1	1	20.69	20.88	20.94	22.20
	DFT-s-OFDM	1	1	19.11	18.98	18.99	20.20
	CP-OFDM QPSK	1	1	21.83	22.20	22.44	23.20
	CP-OFDM 16QAM	1	1	21.98	21.73	21.67	22.70
	CP-OFDM 64QAM	1	1	19.82	19.76	19.64	21.20
CP-OFDM 256QAM	1	1	16.88	16.81	17.12	17.70	

5G N5-State 19 -Ant.1 (NSA)							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.84	23.61	23.66	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.93	23.99	23.97	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.72	23.70	24.02	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.98	23.87	23.90	24.20
		1	53	23.92	23.79	23.74	24.20
		1	104	23.88	23.85	23.84	24.20
	DFT-s-OFDM BPSK	50	0	24.10	23.94	24.02	24.20
		50	28	23.85	23.91	23.83	24.20
		50	56	23.76	23.92	23.79	24.20
	DFT-s-OFDM BPSK	100	0	23.87	23.79	23.71	24.20
	DFT-s-OFDM QPSK	1	1	23.98	23.75	23.71	24.20
	DFT-s-OFDM 16QAM	1	1	22.57	22.52	22.45	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.92	21.00	22.20
	DFT-s-OFDM	1	1	19.13	19.13	19.07	20.20
	CP-OFDM QPSK	1	1	21.98	22.22	22.33	23.20
	CP-OFDM 16QAM	1	1	21.91	21.93	21.89	22.70
	CP-OFDM 64QAM	1	1	19.90	19.82	19.76	21.20
CP-OFDM 256QAM	1	1	16.86	16.98	17.03	17.70	

5G N5-State 1 -Ant.0							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.25	23.40	23.65	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.39	23.56	23.32	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.23	23.42	23.58	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.37	23.56	23.58	24.20
		1	53	23.29	23.42	23.10	24.20
		1	104	23.38	23.33	23.12	24.20
	DFT-s-OFDM BPSK	50	0	23.39	23.32	23.32	24.20
		50	28	23.36	23.35	23.41	24.20
		50	56	23.36	23.22	22.98	24.20
	DFT-s-OFDM BPSK	100	0	23.32	23.37	23.44	24.20
	DFT-s-OFDM QPSK	1	1	23.53	23.53	23.53	24.20
	DFT-s-OFDM 16QAM	1	1	22.33	22.44	22.19	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.76	20.76	22.20
	DFT-s-OFDM	1	1	19.09	19.19	19.13	20.20
	CP-OFDM QPSK	1	1	21.82	21.82	21.60	23.20
	CP-OFDM 16QAM	1	1	21.91	21.84	21.77	22.70
	CP-OFDM 64QAM	1	1	20.07	19.97	19.77	21.20
CP-OFDM 256QAM	1	1	16.58	16.53	16.56	17.70	

5G N5-State 2 -Ant.0							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.25	23.40	23.65	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.39	23.56	23.32	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.23	23.42	23.58	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.37	23.56	23.58	24.20
		1	104	23.38	23.33	23.12	24.20
		50	25	23.55	23.43	23.50	24.20
	DFT-s-OFDM BPSK	1	1	23.53	23.53	23.53	24.20
		1	104	23.08	23.29	23.20	24.20
		50	25	23.25	23.39	23.27	24.20
	DFT-s-OFDM BPSK	1	1	22.33	22.44	22.19	23.20
	DFT-s-OFDM QPSK	1	104	22.00	22.18	22.29	23.20
	DFT-s-OFDM 16QAM	50	25	22.18	22.27	22.14	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.76	20.76	22.20
	DFT-s-OFDM	1	104	20.32	20.48	20.36	22.20
	CP-OFDM QPSK	50	25	20.61	20.73	20.69	22.20
	CP-OFDM 16QAM	1	1	19.09	19.19	19.13	20.20
	CP-OFDM 64QAM	1	104	18.74	18.89	18.87	20.20
CP-OFDM 256QAM	50	25	18.81	18.81	18.60	20.20	

5G N5-State 3 -Ant.0							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.25	23.40	23.65	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.39	23.56	23.32	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.23	23.42	23.58	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.37	23.56	23.58	24.20
		1	104	23.38	23.33	23.12	24.20
		50	25	23.55	23.43	23.50	24.20
	DFT-s-OFDM BPSK	1	1	23.53	23.53	23.53	24.20
		1	104	23.08	23.29	23.20	24.20
		50	25	23.25	23.39	23.27	24.20
	DFT-s-OFDM BPSK	1	1	22.33	22.44	22.19	23.20
	DFT-s-OFDM QPSK	1	104	22.00	22.18	22.29	23.20
	DFT-s-OFDM 16QAM	50	25	22.18	22.27	22.14	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.76	20.76	22.20
	DFT-s-OFDM	1	104	20.32	20.48	20.36	22.20
	CP-OFDM QPSK	50	25	20.61	20.73	20.69	22.20
	CP-OFDM 16QAM	1	1	19.09	19.19	19.13	20.20
	CP-OFDM 64QAM	1	104	18.74	18.89	18.87	20.20
CP-OFDM 256QAM	50	25	18.81	18.81	18.60	20.20	

5G N5-State 4 -Ant.0							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.25	23.40	23.65	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.39	23.56	23.32	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.23	23.42	23.58	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.37	23.56	23.58	24.20
		1	104	23.38	23.33	23.12	24.20
		50	25	23.55	23.43	23.50	24.20
	DFT-s-OFDM BPSK	1	1	23.53	23.53	23.53	24.20
		1	104	23.08	23.29	23.20	24.20
		50	25	23.25	23.39	23.27	24.20
	DFT-s-OFDM BPSK	1	1	22.33	22.44	22.19	23.20
	DFT-s-OFDM QPSK	1	104	22.00	22.18	22.29	23.20
	DFT-s-OFDM 16QAM	50	25	22.18	22.27	22.14	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.76	20.76	22.20
	DFT-s-OFDM	1	104	20.32	20.48	20.36	22.20
	CP-OFDM QPSK	50	25	20.61	20.73	20.69	22.20
	CP-OFDM 16QAM	1	1	19.09	19.19	19.13	20.20
	CP-OFDM 64QAM	1	104	18.74	18.89	18.87	20.20
CP-OFDM 256QAM	50	25	18.81	18.81	18.60	20.20	

5G N5-State 5 -Ant.0							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.25	23.40	23.65	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.39	23.56	23.32	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.23	23.42	23.58	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.37	23.56	23.58	24.20
		1	104	23.38	23.33	23.12	24.20
		50	25	23.55	23.43	23.50	24.20
	DFT-s-OFDM BPSK	1	1	23.53	23.53	23.53	24.20
		1	104	23.08	23.29	23.20	24.20
		50	25	23.25	23.39	23.27	24.20
	DFT-s-OFDM BPSK	1	1	22.33	22.44	22.19	23.20
	DFT-s-OFDM QPSK	1	104	22.00	22.18	22.29	23.20
	DFT-s-OFDM 16QAM	50	25	22.18	22.27	22.14	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.76	20.76	22.20
	DFT-s-OFDM	1	104	20.32	20.48	20.36	22.20
	CP-OFDM QPSK	50	25	20.61	20.73	20.69	22.20
	CP-OFDM 16QAM	1	1	19.09	19.19	19.13	20.20
	CP-OFDM 64QAM	1	104	18.74	18.89	18.87	20.20
CP-OFDM 256QAM	50	25	18.81	18.81	18.60	20.20	

5G N5-State 6 -Ant.0							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.25	23.40	23.65	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.39	23.56	23.32	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.23	23.42	23.58	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.37	23.56	23.58	24.20
		1	104	23.38	23.33	23.12	24.20
		50	25	23.55	23.43	23.50	24.20
	DFT-s-OFDM BPSK	1	1	23.53	23.53	23.53	24.20
		1	104	23.08	23.29	23.20	24.20
		50	25	23.25	23.39	23.27	24.20
	DFT-s-OFDM BPSK	1	1	22.33	22.44	22.19	23.20
	DFT-s-OFDM QPSK	1	104	22.00	22.18	22.29	23.20
	DFT-s-OFDM 16QAM	50	25	22.18	22.27	22.14	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.76	20.76	22.20
	DFT-s-OFDM	1	104	20.32	20.48	20.36	22.20
	CP-OFDM QPSK	50	25	20.61	20.73	20.69	22.20
	CP-OFDM 16QAM	1	1	19.09	19.19	19.13	20.20
	CP-OFDM 64QAM	1	104	18.74	18.89	18.87	20.20
CP-OFDM 256QAM	50	25	18.81	18.81	18.60	20.20	

5G N5-State 7 -Ant.0							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.25	23.40	23.65	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.39	23.56	23.32	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.23	23.42	23.58	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.37	23.56	23.58	24.20
		1	104	23.38	23.33	23.12	24.20
		50	25	23.55	23.43	23.50	24.20
	DFT-s-OFDM BPSK	1	1	23.53	23.53	23.53	24.20
		1	104	23.08	23.29	23.20	24.20
		50	25	23.25	23.39	23.27	24.20
	DFT-s-OFDM BPSK	1	1	22.33	22.44	22.19	23.20
	DFT-s-OFDM QPSK	1	104	22.00	22.18	22.29	23.20
	DFT-s-OFDM 16QAM	50	25	22.18	22.27	22.14	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.76	20.76	22.20
	DFT-s-OFDM	1	104	20.32	20.48	20.36	22.20
	CP-OFDM QPSK	50	25	20.61	20.73	20.69	22.20
	CP-OFDM 16QAM	1	1	19.09	19.19	19.13	20.20
	CP-OFDM 64QAM	1	104	18.74	18.89	18.87	20.20
CP-OFDM 256QAM	50	25	18.81	18.81	18.60	20.20	

5G N5-State 8 -Ant.0							
Bandwidth (MHz)		Channel		165300	167300	169300	Tune-up power(dB)
		Frequency(MHz)		826.5	836.5	846.5	
5	DFT-s-OFDM	1	1	23.25	23.40	23.65	24.20
Bandwidth (MHz)		Channel		165800	167300	168800	Tune-up power(dB)
		Frequency(MHz)		829	836.5	844	
10	DFT-s-OFDM	1	1	23.39	23.56	23.32	24.20
Bandwidth (MHz)		Channel		166300	167300	168300	Tune-up power(dB)
		Frequency(MHz)		831.5	836.5	841.5	
15	DFT-s-OFDM	1	1	23.23	23.42	23.58	24.20
Bandwidth (MHz)		Channel		166800	167300	167800	Tune-up power(dB)
		Frequency(MHz)		834	836.5	839	
20	DFT-s-OFDM BPSK	1	1	23.37	23.56	23.58	24.20
		1	104	23.38	23.33	23.12	24.20
		50	25	23.55	23.43	23.50	24.20
	DFT-s-OFDM BPSK	1	1	23.53	23.53	23.53	24.20
		1	104	23.08	23.29	23.20	24.20
		50	25	23.25	23.39	23.27	24.20
	DFT-s-OFDM BPSK	1	1	22.33	22.44	22.19	23.20
	DFT-s-OFDM QPSK	1	104	22.00	22.18	22.29	23.20
	DFT-s-OFDM 16QAM	50	25	22.18	22.27	22.14	23.20
	DFT-s-OFDM 64QAM	1	1	20.84	20.76	20.76	22.20
	DFT-s-OFDM	1	104	20.32	20.48	20.36	22.20
	CP-OFDM QPSK	50	25	20.61	20.73	20.69	22.20
	CP-OFDM 16QAM	1	1	19.09	19.19	19.13	20.20
	CP-OFDM 64QAM	1	104	18.74	18.89	18.87	20.20
CP-OFDM 256QAM	50	25	18.81	18.81	18.60	20.20	

8.5.2 NR Band7 Output Power

5G N7-State 12 -Ant.1							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	17.32	17.44	17.63	17.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	17.56	17.62	17.51	17.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	17.54	17.62	17.61	17.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	17.45	17.39	17.41	17.70
		1	53	17.33	17.33	17.36	17.70
		1	104	17.15	17.09	17.37	17.70
	DFT-s-OFDM BPSK	50	0	17.39	17.25	17.37	17.70
		50	28	17.14	17.13	17.08	17.70
		50	56	17.19	16.88	17.17	17.70
	DFT-s-OFDM BPSK	100	0	17.29	17.43	17.25	17.70
	DFT-s-OFDM QPSK	1	1	16.99	17.36	17.26	17.70
	DFT-s-OFDM 16QAM	1	1	17.20	17.04	17.45	17.70
	DFT-s-OFDM 64QAM	1	1	17.31	17.10	17.24	17.70
	DFT-s-OFDM	1	1	17.18	17.08	16.99	17.70
	CP-OFDM QPSK	1	1	17.11	17.31	17.29	17.70
	CP-OFDM 16QAM	1	1	17.64	17.21	17.51	17.70
	CP-OFDM 64QAM	1	1	17.29	17.46	17.13	17.70
CP-OFDM 256QAM	1	1	15.80	15.73	15.59	17.20	

5G N7-State 16 -Ant.1							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	17.32	17.44	17.63	17.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	17.56	17.62	17.51	17.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	17.54	17.62	17.61	17.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	17.45	17.39	17.41	17.70
		1	53	17.33	17.33	17.36	17.70
		1	104	17.15	17.09	17.37	17.70
	DFT-s-OFDM BPSK	50	0	17.39	17.25	17.37	17.70
		50	28	17.14	17.13	17.08	17.70
		50	56	17.19	16.88	17.17	17.70
	DFT-s-OFDM BPSK	100	0	17.29	17.43	17.25	17.70
	DFT-s-OFDM QPSK	1	1	16.99	17.36	17.26	17.70
	DFT-s-OFDM 16QAM	1	1	17.20	17.04	17.45	17.70
	DFT-s-OFDM 64QAM	1	1	17.31	17.10	17.24	17.70
	DFT-s-OFDM	1	1	17.18	17.08	16.99	17.70
	CP-OFDM QPSK	1	1	17.11	17.31	17.29	17.70
	CP-OFDM 16QAM	1	1	17.64	17.21	17.51	17.70
	CP-OFDM 64QAM	1	1	17.29	17.46	17.13	17.70
CP-OFDM 256QAM	1	1	15.80	15.73	15.59	17.20	

5G N7-State 18 -Ant.1							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	16.04	15.94	15.87	16.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	16.01	15.73	15.86	16.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	15.91	15.89	15.82	16.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	16.04	15.86	16.00	16.20
		1	53	15.75	15.64	15.88	16.20
		1	104	15.60	15.81	15.95	16.20
	DFT-s-OFDM BPSK	50	0	15.88	15.72	15.78	16.20
		50	28	15.76	15.84	15.63	16.20
		50	56	15.87	15.63	15.86	16.20
	DFT-s-OFDM BPSK	100	0	15.99	15.72	15.82	16.20
	DFT-s-OFDM QPSK	1	1	15.40	16.01	15.68	16.20
	DFT-s-OFDM 16QAM	1	1	15.82	15.47	15.75	16.20
	DFT-s-OFDM 64QAM	1	1	15.64	15.70	15.96	16.20
	DFT-s-OFDM	1	1	15.76	15.56	15.61	16.20
	CP-OFDM QPSK	1	1	15.61	15.90	15.78	16.20
	CP-OFDM 16QAM	1	1	16.08	15.88	16.04	16.20
	CP-OFDM 64QAM	1	1	15.97	15.96	15.65	16.20
CP-OFDM 256QAM	1	1	15.88	15.75	15.69	16.20	

5G N7-State 20 -Ant.1							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	17.32	17.44	17.63	17.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	17.56	17.62	17.51	17.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	17.54	17.62	17.61	17.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	17.45	17.39	17.41	17.70
		1	53	17.33	17.33	17.36	17.70
		1	104	17.15	17.09	17.37	17.70
	DFT-s-OFDM BPSK	50	0	17.39	17.25	17.37	17.70
		50	28	17.14	17.13	17.08	17.70
		50	56	17.19	16.88	17.17	17.70
	DFT-s-OFDM BPSK	100	0	17.29	17.43	17.25	17.70
	DFT-s-OFDM QPSK	1	1	16.99	17.36	17.26	17.70
	DFT-s-OFDM 16QAM	1	1	17.20	17.04	17.45	17.70
	DFT-s-OFDM 64QAM	1	1	17.31	17.10	17.24	17.70
	DFT-s-OFDM	1	1	17.18	17.08	16.99	17.70
	CP-OFDM QPSK	1	1	17.11	17.31	17.29	17.70
	CP-OFDM 16QAM	1	1	17.64	17.21	17.51	17.70
	CP-OFDM 64QAM	1	1	17.29	17.46	17.13	17.70
CP-OFDM 256QAM	1	1	15.80	15.73	15.59	17.20	

5G N7-State 11 -Ant.1							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	17.32	17.44	17.63	17.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	17.56	17.62	17.51	17.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	17.54	17.62	17.61	17.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	17.45	17.39	17.41	17.70
		1	53	17.33	17.33	17.36	17.70
		1	104	17.15	17.09	17.37	17.70
	DFT-s-OFDM BPSK	50	0	17.39	17.25	17.37	17.70
		50	28	17.14	17.13	17.08	17.70
		50	56	17.19	16.88	17.17	17.70
	DFT-s-OFDM BPSK	100	0	17.29	17.43	17.25	17.70
	DFT-s-OFDM QPSK	1	1	16.99	17.36	17.26	17.70
	DFT-s-OFDM 16QAM	1	1	17.20	17.04	17.45	17.70
	DFT-s-OFDM 64QAM	1	1	17.31	17.10	17.24	17.70
	DFT-s-OFDM	1	1	17.18	17.08	16.99	17.70
	CP-OFDM QPSK	1	1	17.11	17.31	17.29	17.70
	CP-OFDM 16QAM	1	1	17.64	17.21	17.51	17.70
	CP-OFDM 64QAM	1	1	17.29	17.46	17.13	17.70
CP-OFDM 256QAM	1	1	15.80	15.73	15.59	17.20	

5G N7-State 15 -Ant.1							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	16.04	15.94	15.87	16.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	16.01	15.73	15.86	16.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	15.91	15.89	15.82	16.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	16.04	15.86	16.00	16.20
		1	53	15.75	15.64	15.88	16.20
		1	104	15.60	15.81	15.95	16.20
	DFT-s-OFDM BPSK	50	0	15.88	15.72	15.78	16.20
		50	28	15.76	15.84	15.63	16.20
		50	56	15.87	15.63	15.86	16.20
	DFT-s-OFDM BPSK	100	0	15.99	15.72	15.82	16.20
	DFT-s-OFDM QPSK	1	1	15.40	16.01	15.68	16.20
	DFT-s-OFDM 16QAM	1	1	15.82	15.47	15.75	16.20
	DFT-s-OFDM 64QAM	1	1	15.64	15.70	15.96	16.20
	DFT-s-OFDM	1	1	15.76	15.56	15.61	16.20
	CP-OFDM QPSK	1	1	15.61	15.90	15.78	16.20
	CP-OFDM 16QAM	1	1	16.08	15.88	16.04	16.20
	CP-OFDM 64QAM	1	1	15.97	15.96	15.65	16.20
CP-OFDM 256QAM	1	1	15.88	15.75	15.69	16.20	

5G N7-State 17 -Ant.1							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	14.85	14.70	14.82	15.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	15.04	14.79	14.78	15.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	15.04	14.72	14.70	15.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	15.02	14.76	14.85	15.20
		1	53	14.84	14.52	14.63	15.20
		1	104	14.97	14.71	14.44	15.20
	DFT-s-OFDM BPSK	50	0	14.89	14.76	14.85	15.20
		50	28	14.64	14.77	14.54	15.20
		50	56	14.83	14.59	14.77	15.20
	DFT-s-OFDM BPSK	100	0	14.84	14.69	14.78	15.20
	DFT-s-OFDM QPSK	1	1	14.43	15.04	14.69	15.20
	DFT-s-OFDM 16QAM	1	1	14.79	14.38	14.65	15.20
	DFT-s-OFDM 64QAM	1	1	14.60	14.63	14.93	15.20
	DFT-s-OFDM	1	1	14.75	14.50	14.61	15.20
	CP-OFDM QPSK	1	1	14.61	14.75	14.71	15.20
	CP-OFDM 16QAM	1	1	15.08	14.89	15.01	15.20
	CP-OFDM 64QAM	1	1	14.88	15.03	14.55	15.20
CP-OFDM 256QAM	1	1	14.95	14.75	14.70	15.20	

5G N7-State 19 -Ant.1							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	16.04	15.94	15.87	16.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	16.01	15.73	15.86	16.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	15.91	15.89	15.82	16.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	16.04	15.86	16.00	16.20
		1	53	15.75	15.64	15.88	16.20
		1	104	15.60	15.81	15.95	16.20
	DFT-s-OFDM BPSK	50	0	15.88	15.72	15.78	16.20
		50	28	15.76	15.84	15.63	16.20
		50	56	15.87	15.63	15.86	16.20
	DFT-s-OFDM BPSK	100	0	15.99	15.72	15.82	16.20
	DFT-s-OFDM QPSK	1	1	15.40	16.01	15.68	16.20
	DFT-s-OFDM 16QAM	1	1	15.82	15.47	15.75	16.20
	DFT-s-OFDM 64QAM	1	1	15.64	15.70	15.96	16.20
	DFT-s-OFDM	1	1	15.76	15.56	15.61	16.20
	CP-OFDM QPSK	1	1	15.61	15.90	15.78	16.20
	CP-OFDM 16QAM	1	1	16.08	15.88	16.04	16.20
	CP-OFDM 64QAM	1	1	15.97	15.96	15.65	16.20
CP-OFDM 256QAM	1	1	15.88	15.75	15.69	16.20	

5G N7-State 12 -Ant.0							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	22.15	22.35	22.07	23.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	22.19	22.42	22.20	23.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	22.37	22.42	22.25	23.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	22.26	22.35	22.18	23.70
		1	53	22.33	22.25	22.22	23.70
		1	104	22.24	22.21	22.13	23.70
	DFT-s-OFDM BPSK	50	0	22.35	22.31	22.18	23.70
		50	28	22.26	22.36	22.20	23.70
		50	56	22.35	22.10	22.00	23.70
	DFT-s-OFDM BPSK	100	0	22.28	22.21	22.24	23.70
	DFT-s-OFDM QPSK	1	1	22.10	22.37	22.25	23.70
	DFT-s-OFDM 16QAM	1	1	21.10	21.16	21.24	22.70
	DFT-s-OFDM 64QAM	1	1	19.82	19.74	19.82	21.70
	DFT-s-OFDM	1	1	17.82	17.96	18.01	19.70
	CP-OFDM QPSK	1	1	20.71	20.90	20.92	22.70
	CP-OFDM 16QAM	1	1	20.48	20.56	20.58	22.20
	CP-OFDM 64QAM	1	1	18.77	18.83	18.75	20.70
CP-OFDM 256QAM	1	1	15.24	15.29	15.37	17.20	

5G N7-State 16 -Ant.0							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	22.15	22.35	22.07	23.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	22.19	22.42	22.20	23.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	22.37	22.42	22.25	23.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	22.26	22.35	22.18	23.70
		1	53	22.33	22.25	22.22	23.70
		1	104	22.24	22.21	22.13	23.70
	DFT-s-OFDM BPSK	50	0	22.35	22.31	22.18	23.70
		50	28	22.26	22.36	22.20	23.70
		50	56	22.35	22.10	22.00	23.70
	DFT-s-OFDM BPSK	100	0	22.28	22.21	22.24	23.70
	DFT-s-OFDM QPSK	1	1	22.10	22.37	22.25	23.70
	DFT-s-OFDM 16QAM	1	1	21.10	21.16	21.24	22.70
	DFT-s-OFDM 64QAM	1	1	19.82	19.74	19.82	21.70
	DFT-s-OFDM	1	1	17.82	17.96	18.01	19.70
	CP-OFDM QPSK	1	1	20.71	20.90	20.92	22.70
	CP-OFDM 16QAM	1	1	20.48	20.56	20.58	22.20
	CP-OFDM 64QAM	1	1	18.77	18.83	18.75	20.70
CP-OFDM 256QAM	1	1	15.24	15.29	15.37	17.20	

5G N7-State 18 -Ant.0							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	22.15	22.35	22.07	23.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	22.19	22.42	22.20	23.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	22.37	22.42	22.25	23.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	22.26	22.35	22.18	23.70
		1	53	22.33	22.25	22.22	23.70
		1	104	22.24	22.21	22.13	23.70
	DFT-s-OFDM BPSK	50	0	22.35	22.31	22.18	23.70
		50	28	22.26	22.36	22.20	23.70
		50	56	22.35	22.10	22.00	23.70
	DFT-s-OFDM BPSK	100	0	22.28	22.21	22.24	23.70
	DFT-s-OFDM QPSK	1	1	22.10	22.37	22.25	23.70
	DFT-s-OFDM 16QAM	1	1	21.10	21.16	21.24	22.70
	DFT-s-OFDM 64QAM	1	1	19.82	19.74	19.82	21.70
	DFT-s-OFDM	1	1	17.82	17.96	18.01	19.70
	CP-OFDM QPSK	1	1	20.71	20.90	20.92	22.70
	CP-OFDM 16QAM	1	1	20.48	20.56	20.58	22.20
	CP-OFDM 64QAM	1	1	18.77	18.83	18.75	20.70
CP-OFDM 256QAM	1	1	15.24	15.29	15.37	17.20	

5G N7-State 20 -Ant.0							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	22.15	22.35	22.07	23.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	22.19	22.42	22.20	23.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	22.37	22.42	22.25	23.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	22.26	22.35	22.18	23.70
		1	53	22.33	22.25	22.22	23.70
		1	104	22.24	22.21	22.13	23.70
	DFT-s-OFDM BPSK	50	0	22.35	22.31	22.18	23.70
		50	28	22.26	22.36	22.20	23.70
		50	56	22.35	22.10	22.00	23.70
	DFT-s-OFDM BPSK	100	0	22.28	22.21	22.24	23.70
	DFT-s-OFDM QPSK	1	1	22.10	22.37	22.25	23.70
	DFT-s-OFDM 16QAM	1	1	21.10	21.16	21.24	22.70
	DFT-s-OFDM 64QAM	1	1	19.82	19.74	19.82	21.70
	DFT-s-OFDM	1	1	17.82	17.96	18.01	19.70
	CP-OFDM QPSK	1	1	20.71	20.90	20.92	22.70
	CP-OFDM 16QAM	1	1	20.48	20.56	20.58	22.20
	CP-OFDM 64QAM	1	1	18.77	18.83	18.75	20.70
CP-OFDM 256QAM	1	1	15.24	15.29	15.37	17.20	

5G N7-State 11 -Ant.0							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	22.15	22.35	22.07	23.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	22.19	22.42	22.20	23.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	22.37	22.42	22.25	23.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	22.26	22.35	22.18	23.70
		1	53	22.33	22.25	22.22	23.70
		1	104	22.24	22.21	22.13	23.70
	DFT-s-OFDM BPSK	50	0	22.35	22.31	22.18	23.70
		50	28	22.26	22.36	22.20	23.70
		50	56	22.35	22.10	22.00	23.70
	DFT-s-OFDM BPSK	100	0	22.28	22.21	22.24	23.70
	DFT-s-OFDM QPSK	1	1	22.10	22.37	22.25	23.70
	DFT-s-OFDM 16QAM	1	1	21.10	21.16	21.24	22.70
	DFT-s-OFDM 64QAM	1	1	19.82	19.74	19.82	21.70
	DFT-s-OFDM	1	1	17.82	17.96	18.01	19.70
	CP-OFDM QPSK	1	1	20.71	20.90	20.92	22.70
	CP-OFDM 16QAM	1	1	20.48	20.56	20.58	22.20
	CP-OFDM 64QAM	1	1	18.77	18.83	18.75	20.70
CP-OFDM 256QAM	1	1	15.24	15.29	15.37	17.20	

5G N7-State 15 -Ant.0							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	20.70	20.72	20.84	22.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	20.99	20.49	20.86	22.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	20.83	20.72	20.80	22.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	20.91	20.66	20.78	22.20
		1	53	20.87	20.77	20.78	22.20
		1	104	20.76	20.69	20.55	22.20
	DFT-s-OFDM BPSK	50	0	20.93	20.91	20.45	22.20
		50	28	20.80	20.88	20.60	22.20
		50	56	20.83	20.60	20.36	22.20
	DFT-s-OFDM BPSK	100	0	20.88	20.57	20.76	22.20
	DFT-s-OFDM QPSK	1	1	20.64	20.70	20.63	22.20
	DFT-s-OFDM 16QAM	1	1	20.62	20.54	20.76	22.20
	DFT-s-OFDM 64QAM	1	1	19.76	19.84	19.90	21.70
	DFT-s-OFDM	1	1	17.92	17.92	18.10	19.70
	CP-OFDM QPSK	1	1	20.44	20.22	20.24	22.20
	CP-OFDM 16QAM	1	1	20.32	20.66	20.66	22.20
	CP-OFDM 64QAM	1	1	18.79	18.85	18.79	20.70
CP-OFDM 256QAM	1	1	15.30	15.34	15.25	17.20	

5G N7-State 17 -Ant.0							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	19.52	19.77	19.66	21.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	19.56	19.81	19.56	21.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	19.62	19.79	19.80	21.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	19.54	19.95	19.74	21.20
		1	53	19.65	19.61	19.80	21.20
		1	104	19.70	19.69	19.47	21.20
	DFT-s-OFDM BPSK	50	0	19.77	19.77	19.78	21.20
		50	28	19.76	19.92	19.66	21.20
		50	56	19.83	19.60	19.36	21.20
	DFT-s-OFDM BPSK	100	0	19.80	19.71	19.72	21.20
	DFT-s-OFDM QPSK	1	1	19.38	19.75	19.65	21.20
	DFT-s-OFDM 16QAM	1	1	19.54	19.68	19.56	21.20
	DFT-s-OFDM 64QAM	1	1	19.90	19.70	19.68	21.20
	DFT-s-OFDM	1	1	17.95	18.01	17.93	19.70
	CP-OFDM QPSK	1	1	19.35	19.39	19.48	21.20
	CP-OFDM 16QAM	1	1	19.42	19.34	19.68	21.20
	CP-OFDM 64QAM	1	1	18.75	18.75	18.86	20.70
CP-OFDM 256QAM	1	1	15.22	15.32	15.22	17.20	

5G N7-State 19 -Ant.0							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	20.70	20.72	20.84	22.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	20.99	20.49	20.86	22.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	20.83	20.72	20.80	22.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	20.91	20.66	20.78	22.20
		1	53	20.87	20.77	20.78	22.20
		1	104	20.76	20.69	20.55	22.20
	DFT-s-OFDM BPSK	50	0	20.93	20.91	20.45	22.20
		50	28	20.80	20.88	20.60	22.20
		50	56	20.83	20.60	20.36	22.20
	DFT-s-OFDM BPSK	100	0	20.88	20.57	20.76	22.20
	DFT-s-OFDM QPSK	1	1	20.64	20.70	20.63	22.20
	DFT-s-OFDM 16QAM	1	1	20.62	20.54	20.76	22.20
	DFT-s-OFDM 64QAM	1	1	19.76	19.84	19.90	21.70
	DFT-s-OFDM	1	1	17.92	17.92	18.10	19.70
	CP-OFDM QPSK	1	1	20.44	20.22	20.24	22.20
	CP-OFDM 16QAM	1	1	20.32	20.66	20.66	22.20
	CP-OFDM 64QAM	1	1	18.79	18.85	18.79	20.70
CP-OFDM 256QAM	1	1	15.30	15.34	15.25	17.20	

5G N7-State 12 -Ant.0 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	22.15	22.35	22.07	23.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	22.19	22.42	22.20	23.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	22.37	22.42	22.25	23.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	22.26	22.35	22.18	23.70
		1	53	22.33	22.25	22.22	23.70
		1	104	22.24	22.21	22.13	23.70
	DFT-s-OFDM BPSK	50	0	22.35	22.31	22.18	23.70
		50	28	22.26	22.36	22.20	23.70
		50	56	22.35	22.10	22.00	23.70
	DFT-s-OFDM BPSK	100	0	22.28	22.21	22.24	23.70
	DFT-s-OFDM QPSK	1	1	22.10	22.37	22.25	23.70
	DFT-s-OFDM 16QAM	1	1	21.10	21.16	21.24	22.70
	DFT-s-OFDM 64QAM	1	1	19.82	19.74	19.82	21.70
	DFT-s-OFDM	1	1	17.82	17.96	18.01	19.70
	CP-OFDM QPSK	1	1	20.71	20.90	20.92	22.70
	CP-OFDM 16QAM	1	1	20.48	20.56	20.58	22.20
	CP-OFDM 64QAM	1	1	18.77	18.83	18.75	20.70
CP-OFDM 256QAM	1	1	15.24	15.29	15.37	17.20	

5G N7-State 16 -Ant.0 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	22.15	22.35	22.07	23.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	22.19	22.42	22.20	23.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	22.37	22.42	22.25	23.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	22.26	22.35	22.18	23.70
		1	53	22.33	22.25	22.22	23.70
		1	104	22.24	22.21	22.13	23.70
	DFT-s-OFDM BPSK	50	0	22.35	22.31	22.18	23.70
		50	28	22.26	22.36	22.20	23.70
		50	56	22.35	22.10	22.00	23.70
	DFT-s-OFDM BPSK	100	0	22.28	22.21	22.24	23.70
	DFT-s-OFDM QPSK	1	1	22.10	22.37	22.25	23.70
	DFT-s-OFDM 16QAM	1	1	21.10	21.16	21.24	22.70
	DFT-s-OFDM 64QAM	1	1	19.82	19.74	19.82	21.70
	DFT-s-OFDM	1	1	17.82	17.96	18.01	19.70
	CP-OFDM QPSK	1	1	20.71	20.90	20.92	22.70
	CP-OFDM 16QAM	1	1	20.48	20.56	20.58	22.20
	CP-OFDM 64QAM	1	1	18.77	18.83	18.75	20.70
CP-OFDM 256QAM	1	1	15.24	15.29	15.37	17.20	

5G N7-State 18 -Ant.0 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	22.15	22.35	22.07	23.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	22.19	22.42	22.20	23.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	22.37	22.42	22.25	23.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	22.26	22.35	22.18	23.70
		1	53	22.33	22.25	22.22	23.70
		1	104	22.24	22.21	22.13	23.70
	DFT-s-OFDM BPSK	50	0	22.35	22.31	22.18	23.70
		50	28	22.26	22.36	22.20	23.70
		50	56	22.35	22.10	22.00	23.70
	DFT-s-OFDM BPSK	100	0	22.28	22.21	22.24	23.70
	DFT-s-OFDM QPSK	1	1	22.10	22.37	22.25	23.70
	DFT-s-OFDM 16QAM	1	1	21.10	21.16	21.24	22.70
	DFT-s-OFDM 64QAM	1	1	19.82	19.74	19.82	21.70
	DFT-s-OFDM	1	1	17.82	17.96	18.01	19.70
	CP-OFDM QPSK	1	1	20.71	20.90	20.92	22.70
	CP-OFDM 16QAM	1	1	20.48	20.56	20.58	22.20
	CP-OFDM 64QAM	1	1	18.77	18.83	18.75	20.70
CP-OFDM 256QAM	1	1	15.24	15.29	15.37	17.20	

5G N7-State 20 -Ant.0 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	22.15	22.35	22.07	23.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	22.19	22.42	22.20	23.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	22.37	22.42	22.25	23.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	22.26	22.35	22.18	23.70
		1	53	22.33	22.25	22.22	23.70
		1	104	22.24	22.21	22.13	23.70
	DFT-s-OFDM BPSK	50	0	22.35	22.31	22.18	23.70
		50	28	22.26	22.36	22.20	23.70
		50	56	22.35	22.10	22.00	23.70
	DFT-s-OFDM BPSK	100	0	22.28	22.21	22.24	23.70
	DFT-s-OFDM QPSK	1	1	22.10	22.37	22.25	23.70
	DFT-s-OFDM 16QAM	1	1	21.10	21.16	21.24	22.70
	DFT-s-OFDM 64QAM	1	1	19.82	19.74	19.82	21.70
	DFT-s-OFDM	1	1	17.82	17.96	18.01	19.70
	CP-OFDM QPSK	1	1	20.71	20.90	20.92	22.70
	CP-OFDM 16QAM	1	1	20.48	20.56	20.58	22.20
	CP-OFDM 64QAM	1	1	18.77	18.83	18.75	20.70
CP-OFDM 256QAM	1	1	15.24	15.29	15.37	17.20	

5G N7-State 11 -Ant.0 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	20.34	20.15	20.14	21.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	20.14	20.09	20.06	21.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	20.18	20.09	20.08	21.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	20.28	20.23	20.12	21.70
		1	53	20.16	20.05	20.21	21.70
		1	104	20.01	20.03	20.26	21.70
	DFT-s-OFDM BPSK	50	0	20.29	20.21	20.00	21.70
		50	28	20.30	20.30	20.04	21.70
		50	56	20.21	20.14	20.10	21.70
	DFT-s-OFDM BPSK	100	0	20.30	20.11	20.26	21.70
	DFT-s-OFDM QPSK	1	1	19.92	20.19	20.29	21.70
	DFT-s-OFDM 16QAM	1	1	20.10	20.08	20.06	21.70
	DFT-s-OFDM 64QAM	1	1	19.88	19.82	19.84	21.70
	DFT-s-OFDM	1	1	17.78	17.89	17.97	19.70
	CP-OFDM QPSK	1	1	20.34	19.99	20.09	21.70
	CP-OFDM 16QAM	1	1	20.29	20.11	19.90	21.70
	CP-OFDM 64QAM	1	1	18.86	18.72	18.84	20.70
CP-OFDM 256QAM	1	1	15.36	15.33	15.45	17.20	

5G N7-State 15 -Ant.0 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	18.18	18.24	17.85	19.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	18.04	18.11	18.07	19.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	18.18	18.06	18.12	19.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	18.11	18.22	18.03	19.70
		1	53	18.31	18.18	18.07	19.70
		1	104	18.15	18.16	17.98	19.70
	DFT-s-OFDM BPSK	50	0	18.42	18.40	18.18	19.70
		50	28	18.19	18.34	18.18	19.70
		50	56	18.26	18.05	18.05	19.70
	DFT-s-OFDM BPSK	100	0	18.26	18.17	18.15	19.70
	DFT-s-OFDM QPSK	1	1	17.99	18.31	18.30	19.70
	DFT-s-OFDM 16QAM	1	1	18.12	18.16	18.29	19.70
	DFT-s-OFDM 64QAM	1	1	17.90	17.80	17.91	19.70
	DFT-s-OFDM	1	1	17.89	17.94	18.03	19.70
	CP-OFDM QPSK	1	1	18.10	18.27	17.95	19.70
	CP-OFDM 16QAM	1	1	18.11	18.22	18.00	19.70
	CP-OFDM 64QAM	1	1	18.25	18.01	18.04	19.70
CP-OFDM 256QAM	1	1	15.29	15.20	15.26	17.20	

5G N7-State 17 -Ant.0 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	16.72	16.65	16.40	18.20
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	16.71	16.60	16.58	18.20
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	16.87	16.58	16.58	18.20
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	16.84	16.75	16.55	18.20
		1	53	16.70	16.63	16.80	18.20
		1	104	16.59	16.54	16.70	18.20
	DFT-s-OFDM BPSK	50	0	16.75	16.76	16.65	18.20
		50	28	16.83	16.86	16.67	18.20
		50	56	16.75	16.48	16.58	18.20
	DFT-s-OFDM BPSK	100	0	16.85	16.79	16.56	18.20
	DFT-s-OFDM QPSK	1	1	16.58	16.82	16.58	18.20
	DFT-s-OFDM 16QAM	1	1	16.53	16.59	16.82	18.20
	DFT-s-OFDM 64QAM	1	1	16.48	16.56	16.44	18.20
	DFT-s-OFDM	1	1	16.84	16.82	17.01	18.20
	CP-OFDM QPSK	1	1	16.80	16.61	16.60	18.20
	CP-OFDM 16QAM	1	1	16.72	16.77	16.34	18.20
	CP-OFDM 64QAM	1	1	16.79	16.50	16.77	18.20
CP-OFDM 256QAM	1	1	15.22	15.27	15.28	17.20	

5G N7-State 19 -Ant.0 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	18.18	18.24	17.85	19.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	18.04	18.11	18.07	19.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	18.18	18.06	18.12	19.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	18.11	18.22	18.03	19.70
		1	53	18.31	18.18	18.07	19.70
		1	104	18.15	18.16	17.98	19.70
	DFT-s-OFDM BPSK	50	0	18.42	18.40	18.18	19.70
		50	28	18.19	18.34	18.18	19.70
		50	56	18.26	18.05	18.05	19.70
	DFT-s-OFDM BPSK	100	0	18.26	18.17	18.15	19.70
	DFT-s-OFDM QPSK	1	1	17.99	18.31	18.30	19.70
	DFT-s-OFDM 16QAM	1	1	18.12	18.16	18.29	19.70
	DFT-s-OFDM 64QAM	1	1	17.90	17.80	17.91	19.70
	DFT-s-OFDM	1	1	17.89	17.94	18.03	19.70
	CP-OFDM QPSK	1	1	18.10	18.27	17.95	19.70
	CP-OFDM 16QAM	1	1	18.11	18.22	18.00	19.70
	CP-OFDM 64QAM	1	1	18.25	18.01	18.04	19.70
CP-OFDM 256QAM	1	1	15.29	15.20	15.26	17.20	

5G N7-State 12 -Ant.4 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	19.76	19.83	19.83	21.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	19.92	19.87	19.91	21.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	19.86	19.79	19.75	21.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	19.82	19.79	19.87	21.70
		1	53	19.76	19.77	19.82	21.70
		1	104	19.78	19.74	19.73	21.70
	DFT-s-OFDM BPSK	50	0	19.83	19.79	19.85	21.70
		50	28	19.80	19.77	19.76	21.70
		50	56	19.81	19.80	19.77	21.70
	DFT-s-OFDM BPSK	100	0	19.74	19.71	19.85	21.70
	DFT-s-OFDM QPSK	1	1	19.90	19.83	19.85	21.70
	DFT-s-OFDM 16QAM	1	1	19.78	19.82	19.90	21.70
	DFT-s-OFDM 64QAM	1	1	19.74	19.82	19.86	21.70
	DFT-s-OFDM	1	1	17.73	17.82	17.86	19.70
	CP-OFDM QPSK	1	1	19.79	19.74	19.78	21.70
	CP-OFDM 16QAM	1	1	19.80	19.78	19.86	21.70
	CP-OFDM 64QAM	1	1	18.81	18.72	18.77	20.70
CP-OFDM 256QAM	1	1	15.22	15.24	15.30	17.20	

5G N7-State 16 -Ant.4 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	18.74	18.83	18.87	20.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	18.78	18.82	18.79	20.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	18.86	18.80	18.88	20.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	18.84	18.88	18.81	20.70
		1	53	18.89	18.82	18.70	20.70
		1	104	18.85	18.84	18.77	20.70
	DFT-s-OFDM BPSK	50	0	18.90	18.71	18.84	20.70
		50	28	18.91	18.73	18.79	20.70
		50	56	18.90	18.85	18.73	20.70
	DFT-s-OFDM BPSK	100	0	18.79	18.79	18.76	20.70
	DFT-s-OFDM QPSK	1	1	18.77	18.87	18.79	20.70
	DFT-s-OFDM 16QAM	1	1	18.78	18.81	18.81	20.70
	DFT-s-OFDM 64QAM	1	1	18.90	18.89	18.95	20.70
	DFT-s-OFDM	1	1	17.82	17.84	17.75	19.70
	CP-OFDM QPSK	1	1	18.86	18.76	18.79	20.70
	CP-OFDM 16QAM	1	1	18.88	18.76	18.87	20.70
	CP-OFDM 64QAM	1	1	18.72	18.79	18.71	20.70
CP-OFDM 256QAM	1	1	15.25	15.33	15.35	17.20	

5G N7-State 18 -Ant.4 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	17.73	17.77	17.71	19.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	17.86	17.83	17.73	19.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	17.71	17.85	17.94	19.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	17.86	17.81	17.74	19.70
		1	53	17.90	17.81	17.79	19.70
		1	104	17.74	17.71	17.83	19.70
	DFT-s-OFDM BPSK	50	0	17.93	17.85	17.87	19.70
		50	28	17.95	17.89	17.86	19.70
		50	56	17.79	17.73	17.79	19.70
	DFT-s-OFDM BPSK	100	0	17.75	17.77	17.79	19.70
	DFT-s-OFDM QPSK	1	1	17.90	17.83	17.78	19.70
	DFT-s-OFDM 16QAM	1	1	17.87	17.78	17.77	19.70
	DFT-s-OFDM 64QAM	1	1	17.80	17.82	17.93	19.70
	DFT-s-OFDM	1	1	17.84	17.90	17.90	19.70
	CP-OFDM QPSK	1	1	17.83	17.85	17.78	19.70
	CP-OFDM 16QAM	1	1	17.84	17.74	17.72	19.70
	CP-OFDM 64QAM	1	1	17.84	17.72	17.88	19.70
CP-OFDM 256QAM	1	1	15.34	15.27	15.25	17.20	

5G N7-State 20 -Ant.4 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	18.74	18.83	18.87	20.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	18.78	18.82	18.79	20.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	18.86	18.80	18.88	20.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	18.84	18.88	18.81	20.70
		1	53	18.89	18.82	18.70	20.70
		1	104	18.85	18.84	18.77	20.70
	DFT-s-OFDM BPSK	50	0	18.90	18.71	18.84	20.70
		50	28	18.91	18.73	18.79	20.70
		50	56	18.90	18.85	18.73	20.70
	DFT-s-OFDM BPSK	100	0	18.79	18.79	18.76	20.70
	DFT-s-OFDM QPSK	1	1	18.77	18.87	18.79	20.70
	DFT-s-OFDM 16QAM	1	1	18.78	18.81	18.81	20.70
	DFT-s-OFDM 64QAM	1	1	18.90	18.89	18.95	20.70
	DFT-s-OFDM	1	1	17.82	17.84	17.75	19.70
	CP-OFDM QPSK	1	1	18.86	18.76	18.79	20.70
	CP-OFDM 16QAM	1	1	18.88	18.76	18.87	20.70
	CP-OFDM 64QAM	1	1	18.72	18.79	18.71	20.70
CP-OFDM 256QAM	1	1	15.25	15.33	15.35	17.20	

5G N7-State 11 -Ant.4 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	19.76	19.83	19.83	21.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	19.92	19.87	19.91	21.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	19.86	19.79	19.75	21.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	19.82	19.79	19.87	21.70
		1	53	19.76	19.77	19.82	21.70
		1	104	19.78	19.74	19.73	21.70
	DFT-s-OFDM BPSK	50	0	19.83	19.79	19.85	21.70
		50	28	19.80	19.77	19.76	21.70
		50	56	19.81	19.80	19.77	21.70
	DFT-s-OFDM BPSK	100	0	19.74	19.71	19.85	21.70
	DFT-s-OFDM QPSK	1	1	19.90	19.83	19.85	21.70
	DFT-s-OFDM 16QAM	1	1	19.78	19.82	19.90	21.70
	DFT-s-OFDM 64QAM	1	1	19.74	19.82	19.86	21.70
	DFT-s-OFDM	1	1	17.73	17.82	17.86	19.70
	CP-OFDM QPSK	1	1	19.79	19.74	19.78	21.70
	CP-OFDM 16QAM	1	1	19.80	19.78	19.86	21.70
	CP-OFDM 64QAM	1	1	18.81	18.72	18.77	20.70
CP-OFDM 256QAM	1	1	15.22	15.24	15.30	17.20	

5G N7-State 15 -Ant.4 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	18.74	18.83	18.87	20.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	18.78	18.82	18.79	20.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	18.86	18.80	18.88	20.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	18.84	18.88	18.81	20.70
		1	53	18.89	18.82	18.70	20.70
		1	104	18.85	18.84	18.77	20.70
	DFT-s-OFDM BPSK	50	0	18.90	18.71	18.84	20.70
		50	28	18.91	18.73	18.79	20.70
		50	56	18.90	18.85	18.73	20.70
	DFT-s-OFDM BPSK	100	0	18.79	18.79	18.76	20.70
	DFT-s-OFDM QPSK	1	1	18.77	18.87	18.79	20.70
	DFT-s-OFDM 16QAM	1	1	18.78	18.81	18.81	20.70
	DFT-s-OFDM 64QAM	1	1	18.90	18.89	18.95	20.70
	DFT-s-OFDM	1	1	17.82	17.84	17.75	19.70
	CP-OFDM QPSK	1	1	18.86	18.76	18.79	20.70
	CP-OFDM 16QAM	1	1	18.88	18.76	18.87	20.70
	CP-OFDM 64QAM	1	1	18.72	18.79	18.71	20.70
CP-OFDM 256QAM	1	1	15.25	15.33	15.35	17.20	

5G N7-State 17 -Ant.4 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	17.73	17.77	17.71	19.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	17.86	17.83	17.73	19.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	17.71	17.85	17.94	19.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	17.86	17.81	17.74	19.70
		1	53	17.90	17.81	17.79	19.70
		1	104	17.74	17.71	17.83	19.70
	DFT-s-OFDM BPSK	50	0	17.93	17.85	17.87	19.70
		50	28	17.95	17.89	17.86	19.70
		50	56	17.79	17.73	17.79	19.70
	DFT-s-OFDM BPSK	100	0	17.75	17.77	17.79	19.70
	DFT-s-OFDM QPSK	1	1	17.90	17.83	17.78	19.70
	DFT-s-OFDM 16QAM	1	1	17.87	17.78	17.77	19.70
	DFT-s-OFDM 64QAM	1	1	17.80	17.82	17.93	19.70
	DFT-s-OFDM	1	1	17.84	17.90	17.90	19.70
	CP-OFDM QPSK	1	1	17.83	17.85	17.78	19.70
	CP-OFDM 16QAM	1	1	17.84	17.74	17.72	19.70
	CP-OFDM 64QAM	1	1	17.84	17.72	17.88	19.70
CP-OFDM 256QAM	1	1	15.34	15.27	15.25	17.20	

5G N7-State 19 -Ant.4 (NSA)							
Bandwidth (MHz)		Channel		500500	507000	513500	Tune-up power(dB)
		Frequency(MHz)		2502.5	2535	2567.5	
5	DFT-s-OFDM	1	1	18.74	18.83	18.87	20.70
Bandwidth (MHz)		Channel		501000	507000	513000	Tune-up power(dB)
		Frequency(MHz)		2505	2535	2565	
10	DFT-s-OFDM	1	1	18.78	18.82	18.79	20.70
Bandwidth (MHz)		Channel		501500	507000	512500	Tune-up power(dB)
		Frequency(MHz)		2507.5	2535	2562.5	
15	DFT-s-OFDM	1	1	18.86	18.80	18.88	20.70
Bandwidth (MHz)		Channel		502000	507000	512000	Tune-up power(dB)
		Frequency(MHz)		2510	2535	2560	
20	DFT-s-OFDM BPSK	1	1	18.84	18.88	18.81	20.70
		1	53	18.89	18.82	18.70	20.70
		1	104	18.85	18.84	18.77	20.70
	DFT-s-OFDM BPSK	50	0	18.90	18.71	18.84	20.70
		50	28	18.91	18.73	18.79	20.70
		50	56	18.90	18.85	18.73	20.70
	DFT-s-OFDM BPSK	100	0	18.79	18.79	18.76	20.70
	DFT-s-OFDM QPSK	1	1	18.77	18.87	18.79	20.70
	DFT-s-OFDM 16QAM	1	1	18.78	18.81	18.81	20.70
	DFT-s-OFDM 64QAM	1	1	18.90	18.89	18.95	20.70
	DFT-s-OFDM	1	1	17.82	17.84	17.75	19.70
	CP-OFDM QPSK	1	1	18.86	18.76	18.79	20.70
	CP-OFDM 16QAM	1	1	18.88	18.76	18.87	20.70
	CP-OFDM 64QAM	1	1	18.72	18.79	18.71	20.70
CP-OFDM 256QAM	1	1	15.25	15.33	15.35	17.20	

8.5.3 NR Band38 Output Power

5G N38-State 12 -Ant.1							
Bandwidth (MHz)		Channel		515000	519000	523000	Tune-up power(dB)
		Frequency(MHz)		2575	2595	2615	
10	DFT-s-OFDM	1	1	17.63	17.66	17.79	18.20
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	17.70	17.44	17.63	18.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	17.86	17.70	17.74	18.20
		1	39	17.63	17.55	17.71	18.20
		1	76	17.51	17.69	17.72	18.20
	DFT-s-OFDM BPSK	36	0	17.74	17.57	17.87	18.20
		36	21	17.90	17.56	17.63	18.20
		36	42	17.54	17.53	17.59	18.20
	DFT-s-OFDM BPSK	75	0	17.58	17.58	17.68	18.20
	DFT-s-OFDM QPSK	1	1	17.32	17.77	17.76	18.20
	DFT-s-OFDM 16QAM	1	1	17.44	17.52	17.67	18.20
	DFT-s-OFDM 64QAM	1	1	16.82	16.98	16.78	18.20
	DFT-s-OFDM	1	1	16.89	16.79	16.61	18.20
	CP-OFDM QPSK	1	1	16.73	16.94	16.83	18.20
	CP-OFDM 16QAM	1	1	16.76	16.77	16.77	18.20
	CP-OFDM 64QAM	1	1	16.66	16.70	16.77	18.20
CP-OFDM 256QAM	1	1	16.52	16.64	16.60	17.70	

5G N38-State 16 -Ant.1							
Bandwidth (MHz)		Channel		515000	519000	523000	Tune-up power(dB)
		Frequency(MHz)		2575	2595	2615	
10	DFT-s-OFDM	1	1	17.63	17.66	17.79	18.20
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	17.70	17.44	17.63	18.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	17.86	17.70	17.74	18.20
		1	39	17.63	17.55	17.71	18.20
		1	76	17.51	17.69	17.72	18.20
	DFT-s-OFDM BPSK	36	0	17.74	17.57	17.87	18.20
		36	21	17.90	17.56	17.63	18.20
		36	42	17.54	17.53	17.59	18.20
	DFT-s-OFDM BPSK	75	0	17.58	17.58	17.68	18.20
	DFT-s-OFDM QPSK	1	1	17.32	17.77	17.76	18.20
	DFT-s-OFDM 16QAM	1	1	17.44	17.52	17.67	18.20
	DFT-s-OFDM 64QAM	1	1	16.82	16.98	16.78	18.20
	DFT-s-OFDM	1	1	16.89	16.79	16.61	18.20
	CP-OFDM QPSK	1	1	16.73	16.94	16.83	18.20
	CP-OFDM 16QAM	1	1	16.76	16.77	16.77	18.20
	CP-OFDM 64QAM	1	1	16.66	16.70	16.77	18.20
CP-OFDM 256QAM	1	1	16.52	16.64	16.60	17.70	

5G N38-State 18 -Ant.1							
Bandwidth (MHz)		Channel		515000	519000	523000	Tune-up power(dB)
		Frequency(MHz)		2575	2595	2615	
10	DFT-s-OFDM	1	1	17.63	17.66	17.79	18.20
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	17.70	17.44	17.63	18.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	17.86	17.70	17.74	18.20
		1	39	17.63	17.55	17.71	18.20
		1	76	17.51	17.69	17.72	18.20
	DFT-s-OFDM BPSK	36	0	17.74	17.57	17.87	18.20
		36	21	17.90	17.56	17.63	18.20
		36	42	17.54	17.53	17.59	18.20
	DFT-s-OFDM BPSK	75	0	17.58	17.58	17.68	18.20
	DFT-s-OFDM QPSK	1	1	17.32	17.77	17.76	18.20
	DFT-s-OFDM 16QAM	1	1	17.44	17.52	17.67	18.20
	DFT-s-OFDM 64QAM	1	1	16.82	16.98	16.78	18.20
	DFT-s-OFDM	1	1	16.89	16.79	16.61	18.20
	CP-OFDM QPSK	1	1	16.73	16.94	16.83	18.20
	CP-OFDM 16QAM	1	1	16.76	16.77	16.77	18.20
	CP-OFDM 64QAM	1	1	16.66	16.70	16.77	18.20
CP-OFDM 256QAM	1	1	16.52	16.64	16.60	17.70	

5G N38-State 20 -Ant.1							
Bandwidth (MHz)		Channel		515000	519000	523000	Tune-up power(dB)
		Frequency(MHz)		2575	2595	2615	
10	DFT-s-OFDM	1	1	17.63	17.66	17.79	18.20
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	17.70	17.44	17.63	18.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	17.86	17.70	17.74	18.20
		1	39	17.63	17.55	17.71	18.20
		1	76	17.51	17.69	17.72	18.20
	DFT-s-OFDM BPSK	36	0	17.74	17.57	17.87	18.20
		36	21	17.90	17.56	17.63	18.20
		36	42	17.54	17.53	17.59	18.20
	DFT-s-OFDM BPSK	75	0	17.58	17.58	17.68	18.20
	DFT-s-OFDM QPSK	1	1	17.32	17.77	17.76	18.20
	DFT-s-OFDM 16QAM	1	1	17.44	17.52	17.67	18.20
	DFT-s-OFDM 64QAM	1	1	16.82	16.98	16.78	18.20
	DFT-s-OFDM	1	1	16.89	16.79	16.61	18.20
	CP-OFDM QPSK	1	1	16.73	16.94	16.83	18.20
	CP-OFDM 16QAM	1	1	16.76	16.77	16.77	18.20
	CP-OFDM 64QAM	1	1	16.66	16.70	16.77	18.20
CP-OFDM 256QAM	1	1	16.52	16.64	16.60	17.70	

5G N38-State 11 -Ant.1							
Bandwidth (MHz)		Channel		515000	519000	523000	Tune-up power(dB)
		Frequency(MHz)		2575	2595	2615	
10	DFT-s-OFDM	1	1	18.75	18.60	18.83	19.20
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	18.55	18.64	18.65	19.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2615	
30	DFT-s-OFDM BPSK	1	1	18.89	18.86	18.74	19.20
		1	39	18.82	18.62	18.53	19.20
		1	76	18.80	18.72	18.65	19.20
	DFT-s-OFDM BPSK	36	0	18.83	18.80	18.66	19.20
		36	21	18.68	18.52	18.45	19.20
		36	42	18.68	18.54	18.69	19.20
	DFT-s-OFDM BPSK	75	0	18.67	18.60	18.58	19.20
	DFT-s-OFDM QPSK	1	1	18.44	18.56	18.88	19.20
	DFT-s-OFDM 16QAM	1	1	18.56	18.57	18.72	19.20
	DFT-s-OFDM 64QAM	1	1	18.05	18.09	17.77	19.20
	DFT-s-OFDM	1	1	18.24	18.52	18.07	19.20
	CP-OFDM QPSK	1	1	18.25	18.37	18.18	19.20
	CP-OFDM 16QAM	1	1	18.11	18.43	18.31	19.20
	CP-OFDM 64QAM	1	1	18.59	18.77	18.47	19.20
CP-OFDM 256QAM	1	1	16.54	16.64	16.48	17.70	

5G N38-State 15 -Ant.1							
Bandwidth (MHz)		Channel		515000	519000	523000	Tune-up power(dB)
		Frequency(MHz)		2575	2595	2615	
10	DFT-s-OFDM	1	1	17.63	17.66	17.79	18.20
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	17.70	17.44	17.63	18.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	17.86	17.70	17.74	18.20
		1	39	17.63	17.55	17.71	18.20
		1	76	17.51	17.69	17.72	18.20
	DFT-s-OFDM BPSK	36	0	17.74	17.57	17.87	18.20
		36	21	17.90	17.56	17.63	18.20
		36	42	17.54	17.53	17.59	18.20
	DFT-s-OFDM BPSK	75	0	17.58	17.58	17.68	18.20
	DFT-s-OFDM QPSK	1	1	17.32	17.77	17.76	18.20
	DFT-s-OFDM 16QAM	1	1	17.44	17.52	17.67	18.20
	DFT-s-OFDM 64QAM	1	1	16.82	16.98	16.78	18.20
	DFT-s-OFDM	1	1	16.89	16.79	16.61	18.20
	CP-OFDM QPSK	1	1	16.73	16.94	16.83	18.20
	CP-OFDM 16QAM	1	1	16.76	16.77	16.77	18.20
	CP-OFDM 64QAM	1	1	16.66	16.70	16.77	18.20
CP-OFDM 256QAM	1	1	16.52	16.64	16.60	17.70	

5G N38-State 17 -Ant.1							
Bandwidth (MHz)		Channel		515000	519000	523000	Tune-up power(dB)
		Frequency(MHz)		2575	2595	2615	
10	DFT-s-OFDM	1	1	17.63	17.66	17.79	18.20
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	17.70	17.44	17.63	18.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	17.86	17.70	17.74	18.20
		1	39	17.63	17.55	17.71	18.20
		1	76	17.51	17.69	17.72	18.20
	DFT-s-OFDM BPSK	36	0	17.74	17.57	17.87	18.20
		36	21	17.90	17.56	17.63	18.20
		36	42	17.54	17.53	17.59	18.20
	DFT-s-OFDM BPSK	75	0	17.58	17.58	17.68	18.20
	DFT-s-OFDM QPSK	1	1	17.32	17.77	17.76	18.20
	DFT-s-OFDM 16QAM	1	1	17.44	17.52	17.67	18.20
	DFT-s-OFDM 64QAM	1	1	16.82	16.98	16.78	18.20
	DFT-s-OFDM	1	1	16.89	16.79	16.61	18.20
	CP-OFDM QPSK	1	1	16.73	16.94	16.83	18.20
	CP-OFDM 16QAM	1	1	16.76	16.77	16.77	18.20
	CP-OFDM 64QAM	1	1	16.66	16.70	16.77	18.20
CP-OFDM 256QAM	1	1	16.52	16.64	16.60	17.70	

5G N38-State 19 -Ant.1							
Bandwidth (MHz)		Channel		515000	519000	523000	Tune-up power(dB)
		Frequency(MHz)		2575	2595	2615	
10	DFT-s-OFDM	1	1	17.63	17.66	17.79	18.20
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	17.70	17.44	17.63	18.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2605	
30	DFT-s-OFDM BPSK	1	1	17.86	17.70	17.74	18.20
		1	39	17.63	17.55	17.71	18.20
		1	76	17.51	17.69	17.72	18.20
	DFT-s-OFDM BPSK	36	0	17.74	17.57	17.87	18.20
		36	21	17.90	17.56	17.63	18.20
		36	42	17.54	17.53	17.59	18.20
	DFT-s-OFDM BPSK	75	0	17.58	17.58	17.68	18.20
	DFT-s-OFDM QPSK	1	1	17.32	17.77	17.76	18.20
	DFT-s-OFDM 16QAM	1	1	17.44	17.52	17.67	18.20
	DFT-s-OFDM 64QAM	1	1	16.82	16.98	16.78	18.20
	DFT-s-OFDM	1	1	16.89	16.79	16.61	18.20
	CP-OFDM QPSK	1	1	16.73	16.94	16.83	18.20
	CP-OFDM 16QAM	1	1	16.76	16.77	16.77	18.20
	CP-OFDM 64QAM	1	1	16.66	16.70	16.77	18.20
CP-OFDM 256QAM	1	1	16.52	16.64	16.60	17.70	

5G N38-State 12 -Ant.0							
Bandwidth (MHz)		Channel		515000	519000	523000	Tune-up power(dB)
		Frequency(MHz)		2575	2595	2615	
10	DFT-s-OFDM	1	1	22.68	22.51	22.86	24.20
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	22.52	22.83	22.77	24.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2615	
30	DFT-s-OFDM BPSK	1	1	22.98	22.81	22.86	24.20
		1	39	23.03	22.88	22.91	24.20
		1	76	22.93	22.76	22.83	24.20
	DFT-s-OFDM BPSK	36	0	23.07	22.74	22.61	24.20
		36	21	22.94	22.83	22.96	24.20
		36	42	23.04	22.83	22.90	24.20
	DFT-s-OFDM BPSK	75	0	22.97	22.94	22.76	24.20
	DFT-s-OFDM QPSK	1	1	22.57	22.51	22.77	24.20
	DFT-s-OFDM 16QAM	1	1	21.68	21.79	21.88	23.20
	DFT-s-OFDM 64QAM	1	1	20.36	20.24	20.34	22.20
	DFT-s-OFDM	1	1	18.45	18.62	18.51	20.20
	CP-OFDM QPSK	1	1	21.26	21.32	21.21	23.20
	CP-OFDM 16QAM	1	1	20.79	20.74	20.78	22.70
	CP-OFDM 64QAM	1	1	19.28	19.27	19.30	21.20
CP-OFDM 256QAM	1	1	16.06	16.04	15.88	17.70	

5G N38-State 16 -Ant.0							
Bandwidth (MHz)		Channel		515000	519000	523000	Tune-up power(dB)
		Frequency(MHz)		2575	2595	2615	
10	DFT-s-OFDM	1	1	22.68	22.51	22.86	24.20
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	22.52	22.83	22.77	24.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2615	
30	DFT-s-OFDM BPSK	1	1	22.98	22.81	22.86	24.20
		1	39	23.03	22.88	22.91	24.20
		1	76	22.93	22.76	22.83	24.20
	DFT-s-OFDM BPSK	36	0	23.07	22.74	22.61	24.20
		36	21	22.94	22.83	22.96	24.20
		36	42	23.04	22.83	22.90	24.20
	DFT-s-OFDM BPSK	75	0	22.97	22.94	22.76	24.20
	DFT-s-OFDM QPSK	1	1	22.57	22.51	22.77	24.20
	DFT-s-OFDM 16QAM	1	1	21.68	21.79	21.88	23.20
	DFT-s-OFDM 64QAM	1	1	20.36	20.24	20.34	22.20
	DFT-s-OFDM	1	1	18.45	18.62	18.51	20.20
	CP-OFDM QPSK	1	1	21.26	21.32	21.21	23.20
	CP-OFDM 16QAM	1	1	20.79	20.74	20.78	22.70
	CP-OFDM 64QAM	1	1	19.28	19.27	19.30	21.20
CP-OFDM 256QAM	1	1	16.06	16.04	15.88	17.70	

5G N38-State 18 -Ant.0							
Bandwidth (MHz)		Channel		515000	519000	523000	Tune-up power(dB)
		Frequency(MHz)		2575	2595	2615	
10	DFT-s-OFDM	1	1	22.68	22.51	22.86	24.20
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	22.52	22.83	22.77	24.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2615	
30	DFT-s-OFDM BPSK	1	1	22.98	22.81	22.86	24.20
		1	39	23.03	22.88	22.91	24.20
		1	76	22.93	22.76	22.83	24.20
	DFT-s-OFDM BPSK	36	0	23.07	22.74	22.61	24.20
		36	21	22.94	22.83	22.96	24.20
		36	42	23.04	22.83	22.90	24.20
	DFT-s-OFDM BPSK	75	0	22.97	22.94	22.76	24.20
	DFT-s-OFDM QPSK	1	1	22.57	22.51	22.77	24.20
	DFT-s-OFDM 16QAM	1	1	21.68	21.79	21.88	23.20
	DFT-s-OFDM 64QAM	1	1	20.36	20.24	20.34	22.20
	DFT-s-OFDM	1	1	18.45	18.62	18.51	20.20
	CP-OFDM QPSK	1	1	21.26	21.32	21.21	23.20
	CP-OFDM 16QAM	1	1	20.79	20.74	20.78	22.70
	CP-OFDM 64QAM	1	1	19.28	19.27	19.30	21.20
CP-OFDM 256QAM	1	1	16.06	16.04	15.88	17.70	

5G N38-State 20 -Ant.0							
Bandwidth (MHz)		Channel		515000	519000	523000	Tune-up power(dB)
		Frequency(MHz)		2575	2595	2615	
10	DFT-s-OFDM	1	1	22.68	22.51	22.86	24.20
Bandwidth (MHz)		Channel		516000	519000	522000	Tune-up power(dB)
		Frequency(MHz)		2580	2595	2610	
20	DFT-s-OFDM	1	1	22.52	22.83	22.77	24.20
Bandwidth (MHz)		Channel		517000	519000	521000	Tune-up power(dB)
		Frequency(MHz)		2585	2595	2615	
30	DFT-s-OFDM BPSK	1	1	22.98	22.81	22.86	24.20
		1	39	23.03	22.88	22.91	24.20
		1	76	22.93	22.76	22.83	24.20
	DFT-s-OFDM BPSK	36	0	23.07	22.74	22.61	24.20
		36	21	22.94	22.83	22.96	24.20
		36	42	23.04	22.83	22.90	24.20
	DFT-s-OFDM BPSK	75	0	22.97	22.94	22.76	24.20
	DFT-s-OFDM QPSK	1	1	22.57	22.51	22.77	24.20
	DFT-s-OFDM 16QAM	1	1	21.68	21.79	21.88	23.20
	DFT-s-OFDM 64QAM	1	1	20.36	20.24	20.34	22.20
	DFT-s-OFDM	1	1	18.45	18.62	18.51	20.20
	CP-OFDM QPSK	1	1	21.26	21.32	21.21	23.20
	CP-OFDM 16QAM	1	1	20.79	20.74	20.78	22.70
	CP-OFDM 64QAM	1	1	19.28	19.27	19.30	21.20
CP-OFDM 256QAM	1	1	16.06	16.04	15.88	17.70	