



Band 2 (1900MHz Band)										
ANT 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Max / Freq.	Power Min / Freq.	Time-up (min)	MPE (dB)		
Channel										
1860 1860 1900										
20	QPSK	1	0	23.74	23.75	23.67				
20	QPSK	1	49	23.63	23.63	23.63	25	0		
20	QPSK	1	99	23.43	23.52	23.62				
20	QPSK	50	0	22.74	22.85	22.65				
20	QPSK	50	24	22.72	22.82	22.62				
20	QPSK	50	50	22.70	22.80	22.70	24	1		
20	QPSK	100	0	22.77	22.80	22.62				
20	16QAM	50	0	22.79	22.79	22.79				
20	16QAM	1	49	22.92	22.85	22.98	24	1		
20	16QAM	1	99	22.83	22.84	22.87				
20	16QAM	50	0	21.84	21.84	21.84				
20	16QAM	50	24	21.79	21.81	21.78	23	2		
20	16QAM	50	50	21.71	21.87	21.76				
20	16QAM	100	0	21.76	21.66	21.79				
20	84QAM	1	0	21.53	21.14	21.28				
20	84QAM	1	49	21.30	21.14	21.33	23	2		
20	84QAM	50	0	20.90	20.92	20.98				
20	84QAM	50	24	20.53	20.98	20.52				
20	84QAM	50	50	20.46	20.44	20.51	22	3		
20	84QAM	100	0	20.39	20.31	20.38				
20	256QAM	1	0	18.43	18.44	18.43				
20	256QAM	1	49	18.24	18.33	18.35	20	5		
20	256QAM	1	99	18.23	18.33	18.40				
20	256QAM	50	0	18.37	18.45	18.37				
20	256QAM	50	24	18.43	18.33	18.25	20	5		
20	256QAM	50	50	18.20	18.39	18.42				
20	256QAM	100	0	18.26	18.39	18.32				
Channel										
1875 1880 1925.5										
15	QPSK	1	0	23.51	23.63	23.60				
15	QPSK	1	37	23.03	23.03	23.04	25	0		
15	QPSK	1	74	23.54	23.45	23.64				
15	QPSK	36	0	22.83	22.88	22.87				
15	QPSK	36	25	22.82	22.86	22.82				
15	QPSK	36	39	22.74	22.86	22.81	24	1		
15	QPSK	75	0	22.77	22.86	22.71				
15	16QAM	1	0	23.06	23.06	23.02				
15	16QAM	1	37	23.00	23.00	23.00	24	1		
15	16QAM	1	74	23.43	23.43	23.43				
15	16QAM	36	0	21.84	21.84	21.85				
15	16QAM	36	29	21.80	21.70	21.78	23	2		
15	16QAM	36	58	21.76	21.86	21.82				
15	16QAM	75	0	21.78	21.67	21.70				
15	84QAM	1	0	21.50	21.12	21.27				
15	84QAM	1	37	21.50	21.13	21.28	23	2		
15	84QAM	1	74	21.21	21.10	21.27				
15	84QAM	36	0	20.61	20.39	20.46				
15	84QAM	36	29	20.57	20.48	20.58				
15	84QAM	36	39	20.50	20.45	20.55	22	3		
15	84QAM	75	0	20.41	20.30	20.32				
15	256QAM	1	0	18.40	18.40	18.40				
15	256QAM	1	37	18.34	18.33	18.24	20	5		
15	256QAM	1	74	18.36	18.30	18.22				
15	256QAM	36	0	18.37	18.37	18.37				
15	256QAM	36	29	18.28	18.48	18.25	20	5		
15	256QAM	36	39	18.45	18.21	18.31				
15	256QAM	75	0	18.35	18.35	18.35				
Channel										
1860 1860 1915										
10	QPSK	1	0	23.67	23.67	23.67				
10	QPSK	1	25	23.67	23.48	23.64	25	0		
10	QPSK	1	49	23.54	23.48	23.63				
10	QPSK	12	0	22.77	22.77	22.77				
10	QPSK	25	12	22.81	22.58	22.77				
10	QPSK	25	25	22.77	22.66	22.79	24	1		
10	16QAM	1	0	23.76	23.76	23.76				
10	16QAM	1	0	23.11	22.97	22.97				
10	16QAM	1	24	23.08	22.88	22.96	24	1		
10	16QAM	1	49	22.91	22.91	22.91				
10	16QAM	25	0	21.76	21.53	21.63				
10	16QAM	25	12	21.79	21.58	21.79	23	2		
10	16QAM	50	0	21.78	21.68	21.68				
10	16QAM	50	0	21.76	21.63	21.74				
10	84QAM	1	0	21.61	21.37	21.53				
10	84QAM	1	24	21.54	21.37	21.53	23	2		
10	84QAM	1	49	21.44	21.37	21.45				
10	84QAM	25	0	20.58	20.35	20.45				
10	84QAM	25	12	20.58	20.39	20.56	22	3		
10	84QAM	50	0	20.38	20.20	20.33				
10	256QAM	1	0	18.38	18.41	18.38				
10	256QAM	1	24	18.32	18.38	18.24	20	5		
10	256QAM	1	49	18.23	18.37	18.43				
10	256QAM	25	0	18.45	18.45	18.41				
10	256QAM	25	12	18.31	18.27	18.31	20	5		
10	256QAM	25	25	18.34	18.23	18.21				
10	256QAM	50	0	18.41	18.41	18.41				
Channel										
1825 1830 1897.5										
5	QPSK	1	0	23.67	23.67	23.67				
5	QPSK	1	12	23.57	23.49	23.67	25	0		
5	QPSK	1	24	23.56	23.54	23.67				
5	QPSK	12	0	22.85	22.85	22.85				
5	QPSK	12	7	22.85	22.84	22.73				
5	QPSK	12	13	22.77	22.62	22.77	24	1		
5	QPSK	25	0	22.76	22.58	22.66				
5	16QAM	1	0	23.06	22.78	22.91				
5	16QAM	1	12	23.00	22.86	22.98	24	1		
5	16QAM	1	24	23.00	22.84	22.92				
5	16QAM	12	0	21.81	21.58	21.68				
5	16QAM	12	7	21.62	21.66	21.76	23	2		
5	16QAM	12	13	21.76	21.62	21.80				
5	16QAM	25	0	21.80	21.60	21.69				
5	84QAM	1	0	21.45	21.14	21.29				
5	84QAM	1	12	21.45	21.24	21.27	23	2		
5	84QAM	1	24	21.40	21.28	21.38				
5	84QAM	12	0	20.57	20.31	20.44				
5	84QAM	12	7	20.61	20.41	20.52	22	3		
5	84QAM	12	13	20.54	20.39	20.56				
5	84QAM	25	0	20.38	20.10	20.29				
5	256QAM	1	0	18.43	18.39	18.48				
5	256QAM	1	12	18.40	18.28	18.19	20	5		
5	256QAM	1	24	18.43	18.40	18.44				
5	256QAM	12	0	18.39	18.31	18.47				
5	256QAM	12	7	18.43	18.29	18.40	20	5		
5	256QAM	12	13	18.26	18.24	18.45				
5	256QAM	25	0	18.47	18.28	18.36				
Channel										
1865 1860 1918.5										
3	QPSK	1	0	23.51	23.59	23.55				
3	QPSK	1	8	23.48	23.55	23.69	25	0		
3	QPSK	1	14	23.71	23.52	23.63				
3	QPSK	1	20	23.79	23.52	23.69				
3	QPSK	8	4	22.79	22.62	22.74				
3	QPSK	8	7	22.77	22.60	22.69	24	1		
3	QPSK	15	0	22.77	22.61	22.69				
3	16QAM	1	0	23.04	22.74	22.97				
3	16QAM	1	8	23.00	22.94	23.09	24	1		
3	16QAM	1	14	23.04	22.83	23.00				
3	16QAM	8	0	21.83	21.67	21.80				
3	16QAM	8	4	21.86	21.66	21.80	23	2		
3	16QAM	8	7	21.84	21.66	21.79				
3	16QAM	15	0	21.77	21.59	21.74				
3	84QAM	1	0	21.44	21.14	21.32				
3	84QAM	1	8	21.52	21.31	21.43	23	2		
3	84QAM	1	14	21.41						



Band 7 (2600MHz Band)									
ANT 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power H / Freq	Power L / Freq	Turn-up Time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	25.13	25.19	24.83			
20	QPSK	1	49	25.30	25.34	25.26			
20	QPSK	1	99	25.16	25.01	24.93			
20	QPSK	50	0	24.30	24.35	24.32			
20	QPSK	50	24	24.33	24.30	24.32			
20	QPSK	50	50	24.27	24.14	24.04			
20	QPSK	100	0	24.12	24.25	24.01			
20	QPSK	100	24	24.45	24.23	24.17			
20	16QAM	1	49	24.41	24.35	24.24			
20	16QAM	1	99	24.48	24.33	24.23			
20	16QAM	50	0	23.30	23.30	23.30			
20	16QAM	50	24	23.29	23.15	23.07			
20	16QAM	50	50	23.29	23.14	23.01			
20	16QAM	100	0	23.27	23.30	23.01			
20	16QAM	100	24	23.18	22.97	22.75			
20	64QAM	1	49	23.13	23.14	22.82			
20	64QAM	1	99	23.10	23.00	22.86			
20	64QAM	50	0	22.07	21.83	21.70			
20	64QAM	50	24	22.05	21.91	21.82			
20	64QAM	50	50	22.07	21.82	21.82			
20	256QAM	1	49	19.92	19.73	19.75			
20	256QAM	1	99	19.72	19.81	19.87			
20	256QAM	50	0	19.86	19.92	19.95			
20	256QAM	50	24	19.94	19.84	19.74			
20	256QAM	50	50	19.93	19.80	19.77			
20	256QAM	100	0	19.77	19.77	19.85			
Channel									
Frequency (MHz)									
15	QPSK	1	0	25.18	25.01	24.87			
15	QPSK	1	49	25.14	24.96	24.82			
15	QPSK	1	99	25.13	25.03	24.96			
15	QPSK	50	0	24.31	24.50	24.32			
15	QPSK	50	24	24.33	24.33	24.02			
15	QPSK	50	50	24.30	24.13	24.04			
15	QPSK	100	0	24.29	24.12	24.02			
15	16QAM	1	49	24.37	24.31	24.15			
15	16QAM	1	99	24.45	24.40	24.22			
15	16QAM	50	0	23.16	23.00	22.86			
15	16QAM	50	24	23.30	22.98	22.84			
15	16QAM	50	50	23.33	23.15	23.04			
15	16QAM	100	0	23.17	23.13	23.04			
15	16QAM	100	24	23.17	23.00	22.78			
15	64QAM	1	49	23.14	23.07	22.87			
15	64QAM	1	99	23.16	23.10	22.91			
15	64QAM	50	0	22.02	21.85	21.73			
15	64QAM	50	24	22.07	21.89	21.82			
15	64QAM	50	50	22.07	21.85	21.82			
15	64QAM	100	0	22.11	21.93	21.84			
15	256QAM	1	49	19.96	19.92	19.75			
15	256QAM	1	99	19.96	19.85	19.86			
15	256QAM	50	0	19.92	19.75	19.71			
15	256QAM	50	24	19.92	19.82	19.81			
15	256QAM	50	50	19.77	19.77	19.85			
Channel									
Frequency (MHz)									
10	QPSK	1	0	25.05	25.00	24.95			
10	QPSK	1	25	25.15	24.97	24.84			
10	QPSK	1	49	25.14	24.96	24.91			
10	QPSK	12	0	24.30	24.30	24.30			
10	QPSK	25	14	24.33	24.12	23.99			
10	QPSK	25	24	24.30	24.10	24.01			
10	16QAM	1	0	24.46	24.20	24.19			
10	16QAM	1	25	24.41	24.33	24.28			
10	16QAM	50	0	23.30	23.30	23.30			
10	16QAM	50	24	23.32	23.12	22.90			
10	16QAM	50	50	23.32	23.12	22.90			
10	16QAM	100	0	23.33	23.11	22.91			
10	16QAM	100	24	23.28	23.12	22.88			
10	64QAM	1	49	23.32	23.13	23.04			
10	64QAM	1	99	23.11	23.00	22.93			
10	64QAM	50	0	22.08	21.82	21.71			
10	64QAM	50	24	22.05	21.80	21.77			
10	256QAM	1	25	19.91	19.78	19.79			
10	256QAM	1	49	19.97	19.74	19.91			
10	256QAM	50	0	19.88	19.80	19.82			
10	256QAM	50	24	19.93	19.74	19.81			
10	256QAM	50	50	19.78	19.82	19.92			
10	256QAM	100	0	19.78	19.78	19.77			

Band 12 (700MHz Low Band)									
ANT 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power H / Freq	Power L / Freq	Turn-up Time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.73	23.88	23.89			
10	QPSK	1	25	23.88	23.87	23.87			
10	QPSK	1	49	23.88	23.87	23.87			
10	QPSK	25	0	22.89	23.11	22.85			
10	QPSK	25	12	22.88	23.07	22.81			
10	QPSK	25	25	23.01	23.04	23.03			
10	QPSK	50	0	23.01	23.03	22.86			
10	QPSK	50	24	23.18	23.18	23.23			
10	16QAM	1	25	23.21	23.25	23.27			
10	16QAM	1	49	23.20	23.28	23.29			
10	16QAM	1	75	23.14	23.14	23.05			
10	16QAM	50	0	22.94	22.97	22.97			
10	16QAM	50	24	22.90	22.96	22.83			
10	16QAM	50	50	22.91	23.04	23.03			
10	16QAM	100	0	22.91	22.94	22.99			
10	16QAM	100	24	22.12	22.98	22.11			
10	16QAM	100	49	22.15	22.15	22.15			
10	16QAM	25	0	20.95	20.99	20.97			
10	16QAM	25	12	21.05	21.11	21.09			
10	16QAM	25	25	21.00	21.00	21.02			
10	16QAM	50	0	20.84	20.81	20.79			
10	16QAM	50	0	22.01	21.94	21.83			
10	256QAM	1	25	18.81	18.82	18.78			
10	256QAM	1	49	18.86	18.85	18.82			
10	256QAM	50	0	18.84	18.83	18.75			
10	256QAM	50	12	18.83	18.85	18.83			
10	256QAM	50	25	18.90	18.79	18.87			
10	256QAM	100	0	18.80	18.80	18.78			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.89	23.88	23.85			
5	QPSK	1	24	23.90	23.90	23.92			
5	QPSK	1	24	23.90	23.90	23.92			
5	QPSK	10	0	22.93	23.08	22.87			
5	QPSK	10	7	23.03	23.07	22.95			
5	QPSK	12	13	22.95	22.97	22.97			
5	QPSK	25	0	24.96	24.99	24.94			
5	QPSK	25	0	24.96	24.99	24.94			
5	16QAM	1	12	23.15	23.22	23.17			
5	16QAM	1	12	23.15	23.22	23.17			
5	16QAM	12	0	21.95	21.99	21.98			
5	16QAM	12	7	21.99	22.07	22.04			
5	16QAM	12	0	21.96	21.99	21.97			
5	16QAM	12	7	21.96	22.02	22.02			
5	16QAM	25	0	21.94	22.07	22.00			
5	16QAM	25	0	21.94	22.00	21.90			
5	16QAM	25	0	21.96	22.00	21.92			
5	16QAM	25	24	22.00	22.01	21.99			
5	16QAM	12	0	20.92	20.98	20.95			
5	16QAM	12	13	20.96	21.06	21.02			
5	16QAM	12	13	20.95	21.01	20.97			
5	16QAM	25	0	20.81	20.88	20.85			
5	16QAM	25	0	20.81	20.88	20.85			
5	256QAM	1	12	18.78	18.76	18.82			
5	256QAM	1	24	18.78	18.76	18.82			
5	256QAM	50	0	18.76	18.83	18.85			
5	256QAM	50	12	18.78	18.83	18.82			
5	256QAM	12	13	18.81	18.83	18.82			
5	256QAM	25	0	18.78	18.87	18.85			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.87	23.78	23.73			
3	QPSK	1	8	23.89	23.97	23.93			



Band 26 for FCC									
ANT 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Hgt Ch / Freq	Power Hgt Freq	Turn-up time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	0	24.03	24.16	24.08			
15	QPSK	1	37	22.01	22.07	22.01			
15	QPSK	1	74	23.83	23.84	23.83			
15	QPSK	36	0	23.14	23.17	23.14			
15	QPSK	36	25	23.05	23.07	23.05			
15	QPSK	36	39	23.04	23.14	23.04			
15	QPSK	75	0	23.05	23.11	23.10			
15	QPSK	75	23	23.01	23.21	23.21			
15	16QAM	1	37	23.19	23.31	23.19			
15	16QAM	1	74	23.18	23.29	23.18			
15	16QAM	36	0	22.01	22.07	22.01			
15	16QAM	36	25	22.05	22.07	22.05			
15	16QAM	36	39	22.05	22.11	22.05			
15	16QAM	75	0	21.99	22.00	21.99			
15	16QAM	75	23	21.97	22.14	21.97			
15	16QAM	150	0	21.04	21.12	21.04			
15	16QAM	150	25	21.09	21.06	21.09			
15	16QAM	150	39	21.05	21.14	21.05			
15	16QAM	300	0	21.06	21.06	21.06			
15	16QAM	300	25	21.05	21.06	21.05			
15	16QAM	300	39	21.05	21.06	21.05			
15	256QAM	1	37	19.25	19.00	19.00			
15	256QAM	1	74	18.38	18.01	18.01			
15	256QAM	36	0	19.13	18.06	18.06			
15	256QAM	36	25	19.15	19.24	19.15			
15	256QAM	36	39	19.10	19.06	19.11			
15	256QAM	75	0	19.15	19.07	19.15			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.88	23.92	24.00			
5	QPSK	1	37	23.93	23.96	23.93			
5	QPSK	1	74	23.93	23.96	23.96			
5	QPSK	25	0	23.09	23.06	23.09			
5	QPSK	25	25	23.09	23.07	23.09			
5	QPSK	25	39	23.07	23.07	23.09			
5	16QAM	1	37	23.23	23.31	23.48			
5	16QAM	1	74	23.21	23.38	23.42			
5	16QAM	36	0	22.02	22.07	22.10			
5	16QAM	36	25	22.02	22.07	22.10			
5	16QAM	36	39	22.07	22.08	22.14			
5	16QAM	75	0	22.15	22.28	22.37			
5	16QAM	75	23	22.07	22.08	22.14			
5	16QAM	150	0	22.15	22.23	22.31			
5	16QAM	150	25	22.07	22.10	22.15			
5	16QAM	150	39	22.07	22.10	22.09			
5	256QAM	1	37	18.12	18.00	18.00			
5	256QAM	1	74	18.14	18.15	18.11			
5	256QAM	36	0	18.18	18.24	18.03			
5	256QAM	36	25	18.18	18.20	18.15			
5	256QAM	36	39	18.15	18.20	18.15			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.84	23.92	24.05			
3	QPSK	1	14	23.87	24.04	24.05			
3	QPSK	1	28	23.86	23.92	23.92			
3	QPSK	8	4	23.09	23.13	23.21			
3	QPSK	8	7	23.03	23.10	23.10			
3	16QAM	1	0	23.21	23.32	23.33			
3	16QAM	1	8	23.25	23.37	23.37			
3	16QAM	15	0	23.02	23.10	23.02			
3	16QAM	15	8	22.08	22.18	22.21			
3	16QAM	30	0	22.04	22.13	22.16			
3	16QAM	30	8	22.04	22.10	22.10			
3	256QAM	1	0	19.24	19.02	19.02			
3	256QAM	1	12	19.27	19.21	19.00			
3	256QAM	1	24	19.26	19.07	19.26			
3	256QAM	36	0	19.18	19.23	19.08			
3	256QAM	36	12	19.12	19.07	19.11			
3	256QAM	36	15	19.11	19.23	19.03			
3	256QAM	75	0	19.07	19.14	19.23			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.17	23.02	23.02			
1.4	QPSK	1	3	23.88	24.04	24.05			
1.4	QPSK	1	5	23.79	23.94	23.94			
1.4	QPSK	1	8	23.86	23.95	24.00			
1.4	QPSK	3	0	23.88	23.87	24.01			
1.4	QPSK	3	3	23.81	23.96	23.99			
1.4	16QAM	1	0	23.17	23.16	23.30			
1.4	16QAM	1	3	23.21	23.27	23.38			
1.4	16QAM	3	0	23.11	23.26	23.26			
1.4	16QAM	3	3	22.96	23.10	23.06			
1.4	16QAM	3	1	22.98	23.13	23.02			
1.4	16QAM	15	0	22.05	22.14	22.17			
1.4	16QAM	15	3	22.04	22.11	22.12			
1.4	16QAM	30	0	21.99	22.02	22.01			
1.4	16QAM	30	3	22.02	22.07	22.07			
1.4	16QAM	30	1	22.04	22.13	22.18			
1.4	16QAM	30	3	21.96	22.10	22.11			
1.4	256QAM	1	0	19.08	19.13	19.01			
1.4	256QAM	1	3	19.27	19.06	19.09			
1.4	256QAM	36	0	19.19	19.20	19.10			
1.4	256QAM	36	3	19.03	19.00	19.21			
1.4	256QAM	3	1	19.02	19.20	19.06			
1.4	256QAM	75	0	19.09	19.21	19.17			
1.4	256QAM	75	3	19.15	19.02	19.07			

Band 30									
ANT 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Hgt Ch / Freq	Power Hgt Freq	Turn-up time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.93	22.93	22.93			
10	QPSK	1	25	22.82	22.82	22.82			
10	QPSK	1	49	22.87	22.86	22.87			
10	QPSK	25	0	21.99	21.99	21.99			
10	QPSK	25	12	21.98	21.98	21.98			
10	QPSK	25	25	21.92	21.92	21.92			
10	16QAM	1	0	22.03	22.03	22.03			
10	16QAM	1	25	22.32	22.32	22.32			
10	16QAM	1	49	22.10	22.10	22.10			
10	16QAM	25	0	20.99	20.99	20.99			
10	16QAM	25	12	20.92	20.92	20.92			
10	16QAM	25	25	20.92	20.92	20.92			
10	16QAM	50	0	21.98	21.98	21.98			
10	16QAM	50	12	21.92	21.92	21.92			
10	16QAM	50	25	21.92	21.92	21.92			
10	16QAM	100	0	21.92	21.92	21.92			
10	16QAM	100	12	21.92	21.92	21.92			
10	16QAM	100	25	21.92	21.92	21.92			
10	256QAM	1	0	18.24	18.24	18.24			
10	256QAM	1	25	18.25	18.25	18.25			
10	256QAM	1	49	17.70	17.70	17.70			
10	256QAM	25	0	17.76	17.76	17.76			
10	256QAM	25	12	17.79	17.79	17.79			
10	256QAM	25	25	17.72	17.72	17.72			
10	256QAM	50	0	17.69	17.69	17.69			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.76	22.77	22.86			
5	QPSK	1	12	22.90	22.92	22.91			
5	QPSK	1	24	22.86	22.89	22.87			
5	QPSK	12	0	21.92	21.96	21.96			
5	QPSK	12	7	22.08	21.98	22.02			
5	QPSK	12	13	21.99	21.97	22.01			
5	16QAM	1	0	21.91	21.99	21.96			
5	16QAM	1	24	22.30	22.36	22.40			
5	16QAM	1	12	22.40	22.43	22.40			
5	16QAM	12	0	21.06	21.09	21.07			
5	16QAM	12	7	21.09	21.06	21.06			
5	16QAM	12	13	21.06	21.09	21.07			
5	16QAM	25	0	20.98	20.99	20.94			
5	16QAM	25	12	21.11	21.07	21.12			
5	16QAM	25	13	21.07	21.09	21.09			
5	16QAM	24	0	21.22	21.15	21.24			
5	16QAM	12	0	20.16	20.26	20.40			
5	16QAM	12	7	20.35	20.39	20.39			
5	16QAM	12	13	20.37	2				

**Band 38****ANT 1**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Co./Freq	Power Middle Co./Freq	Power High Co./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
				37950	38000	38150		
Frequency (MHz)								
30	QPSK	1	0	24.26	24.49	24.32	25.5	0
30	QPSK	1	49	24.27	24.47	24.30		
30	QPSK	1	99	24.27	24.47	24.30		
30	QPSK	50	0	23.40	23.51	23.51		
30	QPSK	50	24	23.45	23.47	23.45	24.5	1
30	QPSK	50	50	23.42	23.46	23.48		
30	QPSK	100	0	23.37	23.56	23.47		
30	16QAM	1	0	23.83	23.56	23.53	24.5	1
30	16QAM	1	49	23.75	23.59	23.58		
30	16QAM	1	99	23.64	23.59	23.58		
30	16QAM	50	0	22.88	22.66	22.65	23.5	2
30	16QAM	50	24	22.97	22.62	22.66		
30	16QAM	50	50	22.68	22.65	22.69		
30	16QAM	100	0	22.86	22.69	22.63		
30	16QAM	1	0	22.69	22.61	22.49	23.5	2
30	64QAM	1	49	22.89	22.48	22.47		
30	64QAM	1	99	22.81	22.50	22.56		
30	64QAM	50	0	21.95	21.68	21.76	22.5	3
30	64QAM	50	24	21.84	21.70	21.75		
30	64QAM	50	50	21.81	21.77	21.79		
30	64QAM	100	0	21.85	21.69	21.69	20.5	5
30	256QAM	1	0	19.37	19.40	19.37	20.5	5
30	256QAM	1	49	19.42	19.49	19.30		
30	256QAM	1	99	19.46	19.38	19.28		
30	256QAM	50	0	19.28	19.45	19.32	20.5	5
30	256QAM	50	24	19.32	19.44	19.48		
30	256QAM	50	50	19.24	19.28	19.43		
30	256QAM	100	0	19.33	19.43	19.32		
Channel								
				39715	39800	39885		
Frequency (MHz)								
15	QPSK	1	0	24.42	24.37	24.42	25.5	0
15	QPSK	1	31	24.26	24.38	24.42		
15	QPSK	1	74	24.40	24.38	24.42		
15	QPSK	36	0	23.84	23.57	23.67	24.5	1
15	QPSK	36	21	23.85	23.55	23.68		
15	QPSK	36	39	23.89	23.60	23.67		
15	QPSK	75	0	23.83	23.64	23.64	23.5	1
15	QPSK	1	0	23.86	23.61	23.64		
15	16QAM	1	0	23.78	23.65	23.63	24.5	1
15	16QAM	1	74	23.69	23.58	23.62		
15	16QAM	36	0	22.86	22.56	22.67	23.5	2
15	16QAM	36	29	22.92	22.57	22.67		
15	16QAM	36	39	22.60	22.59	22.60		
15	16QAM	75	0	22.85	22.68	22.67	23.5	2
15	16QAM	50	0	21.85	21.62	21.62	22.5	2
15	64QAM	1	37	22.80	22.53	22.59	23.5	2
15	64QAM	1	74	22.80	22.47	22.51		
15	64QAM	36	0	22.03	21.73	21.87	21.5	3
15	64QAM	36	29	21.97	21.70	21.77		
15	64QAM	36	39	21.87	21.78	21.81		
15	64QAM	75	0	21.84	21.67	21.63	20.5	5
15	256QAM	1	0	18.42	18.43	18.42	20.5	5
15	256QAM	1	37	18.34	18.49	18.49		
15	256QAM	1	74	18.25	18.44	18.51		
15	256QAM	36	0	18.43	18.33	18.33	20.5	5
15	256QAM	36	29	18.44	18.22	18.41		
15	256QAM	36	39	18.32	18.48	18.41		
15	256QAM	75	0	18.39	18.30	18.30		
Channel								
				37950	38000	38050		
Frequency (MHz)								
10	QPSK	1	0	24.39	24.43	24.45	25.5	0
10	QPSK	1	49	24.35	24.44	24.41		
10	QPSK	25	0	23.85	23.63	23.68	24.5	1
10	QPSK	25	25	23.74	23.61	23.70		
10	QPSK	50	0	23.86	23.55	23.70	24.5	1
10	16QAM	1	0	23.80	23.60	23.68		
10	16QAM	1	49	23.80	23.60	23.69		
10	16QAM	25	0	22.84	22.50	22.61	23.5	2
10	16QAM	25	12	22.85	22.52	22.72		
10	16QAM	25	25	22.68	22.62	22.69		
10	16QAM	50	0	22.87	22.67	22.74	23.5	2
10	64QAM	1	0	22.03	22.56	22.62	22.5	2
10	64QAM	1	25	22.82	22.56	22.64		
10	64QAM	1	49	22.78	22.58	22.69		
10	64QAM	25	0	21.99	21.70	21.76	22.5	3
10	64QAM	25	12	21.99	21.70	21.86		
10	64QAM	25	25	21.83	21.77	21.85		
10	64QAM	50	0	21.82	21.67	21.68	21.5	3
10	256QAM	1	0	18.42	18.30	18.32	20.5	5
10	256QAM	1	25	18.52	18.41	18.41		
10	256QAM	1	49	18.43	18.41	18.41		
10	256QAM	25	0	18.43	18.32	18.32	20.5	5
10	256QAM	25	12	18.43	18.30	18.30		
10	256QAM	25	25	18.27	18.22	18.35		
10	256QAM	50	0	18.38	18.30	18.32		
Channel								
				37915	38000	38055		
Frequency (MHz)								
5	QPSK	1	0	24.42	24.48	24.43	25.5	0
5	QPSK	1	24	24.41	24.49	24.43		
5	QPSK	1	44	24.42	24.47	24.42		
5	QPSK	12	0	23.85	23.50	23.61	24.5	1
5	QPSK	12	7	23.84	23.62	23.69		
5	QPSK	12	13	23.75	23.59	23.70		
5	QPSK	25	0	23.81	23.50	23.70	23.5	1
5	16QAM	1	12	23.86	23.60	23.69	24.5	1
5	16QAM	1	24	23.75	23.66	23.79		
5	16QAM	12	0	22.84	22.56	22.64	23.5	2
5	16QAM	12	7	22.84	22.64	22.71		
5	16QAM	12	13	22.72	22.62	22.68		
5	16QAM	25	0	22.81	22.55	22.72	23.5	2
5	64QAM	1	0	22.06	22.29	22.46	22.5	2
5	64QAM	1	12	22.82	22.38	22.50		
5	64QAM	1	24	22.67	22.41	22.49		
5	64QAM	12	0	21.98	21.65	21.75	22.5	3
5	64QAM	12	7	21.98	21.75	21.85		
5	64QAM	12	13	21.83	21.69	21.82		
5	64QAM	25	0	21.79	21.49	21.66	21.5	3
5	256QAM	1	0	18.52	18.36	18.36	20.5	5
5	256QAM	1	12	18.54	18.38	18.38		
5	256QAM	1	24	18.39	18.36	18.38		
5	256QAM	12	0	18.56	18.78	18.67	20.5	5
5	256QAM	12	7	18.74	18.68	18.71		
5	256QAM	12	13	18.65	18.64	18.62		
5	256QAM	25	0	18.62	18.63	18.64		

Band 41 (2.6G Band)**ANT 1**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Co./Freq	Power Middle Co./Freq	Power High Co./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
				39750	40185	40620		
Frequency (MHz)								
20	QPSK	1	0	23.47	23.52	23.55	24.5	0
20	QPSK	1	49	23.40	23.38	23.42		
20	QPSK	1	99	23.29	23.25	23.19	23.5	1
20	QPSK	50	0	22.75	22.63	22.80	23.5	1
20	QPSK	50	24	22.49	22.42	22.55		
20	QPSK	50	50	22.83	22.38	22.82		
20	QPSK	100	0	22.53	22.50	22.62	22.5	1
20	16QAM	1	0	22.68	22.83	22.68	23.5	1
20	16QAM	1	49	22.55	22.90	22.69		
20	16QAM	1	99	22.37	22.41	22.40	23.5	1
20	16QAM	50	0	21.53	21.53	21.48	22.5	2
20	16QAM	50	24	21.54	21.37	21.39		
20	16QAM	50	50	21.28	21.31	21.28	21.5	3
20	16QAM	100	0	21.98	21.65	21.62	21.5	3
20	64QAM	1	0	21.98	21.67	21.69	22.5	2
20	64QAM	1	49	21.09	21.14	21.04		
20	64QAM	1	99	21.04	20.96	21.02	20.5	3
20	64QAM	50	0	20.60	20.67	20.58	21.5	3
20	64QAM	50	24	20.56	20.49	20.66		
20	64QAM	50	50	20.84	20.56	20.48	20.5	3
20	64QAM	100	0	20.58	20.46	20.19	20.5	3
20	256QAM	1	0	18.32	18.43	18.38	19.5	5
20	256QAM	1	49	18.27	18.31	18.22		
20	256QAM	1	99	18.53	18.66	18.53	18.5	5
20	256QAM	50	0	18.68	18.75	18.68	19.5	5</



Reduced Power Mode for Receiver off

Table with 13 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power High, Power High, Turn-up, Turn-down, MPR (dB). Contains data for Band 2 Ant 0 ENDC Body-Worn&Handheld.

Table with 13 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power High, Power High, Turn-up, Turn-down, MPR (dB). Contains data for Band 25 Ant 0 ENDC Body-Worn&Handheld.

Table with 13 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power High, Power High, Turn-up, Turn-down, MPR (dB). Contains data for Band 4 ENDC Body-Worn&Handheld.



Band 2 Hotspot										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Max Ch / Freq.	Time-up (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.37	20.54	20.32	21.5	0		
20	QPSK	1	49	20.37	20.54	20.32				
20	QPSK	1	99	20.37	20.54	20.32				
20	QPSK	50	0	19.47	19.53	19.48	20.5	1		
20	QPSK	50	24	19.46	19.53	19.43				
20	QPSK	50	50	19.41	19.54	19.52				
20	QPSK	100	0	19.40	19.52	19.43	20.5	1		
20	QPSK	100	0	19.48	19.50	19.49				
20	16QAM	1	49	19.77	19.78	19.73	20.5	1		
20	16QAM	1	99	19.85	19.89	19.74				
20	16QAM	50	0	18.53	18.58	18.45	19.5	2		
20	16QAM	50	24	18.51	18.59	18.43				
20	16QAM	50	50	18.34	18.52	18.47				
20	16QAM	100	0	18.54	18.54	18.45	19.5	2		
20	16QAM	100	0	18.35	18.27	18.17				
20	16QAM	1	49	18.16	18.46	18.36	19.5	2		
20	16QAM	1	99	18.38	18.36	18.26				
20	16QAM	50	0	18.25	18.43	18.36	18.5	3		
20	16QAM	50	24	18.43	18.34	18.43				
20	16QAM	50	50	18.48	18.26	18.43				
20	16QAM	100	0	18.40	18.41	18.23	18.5	3		
20	16QAM	100	0	18.76	18.61	18.64				
20	256QAM	1	49	18.51	18.74	18.80	18.5	5		
20	256QAM	1	99	18.74	18.48	18.89				
20	256QAM	50	0	18.56	18.56	18.56	18.5	5		
20	256QAM	50	24	18.55	18.65	18.78				
20	256QAM	50	50	18.59	18.54	18.44				
20	256QAM	100	0	18.58	18.58	18.44	18.5	5		
Channel										
Frequency (MHz)										
19	QPSK	1	0	20.42	20.46	20.34	21.5	0		
19	QPSK	1	49	20.38	20.38	20.38				
19	QPSK	1	74	20.51	20.28	20.36				
19	QPSK	36	0	19.81	19.46	19.38	20.5	1		
19	QPSK	36	20	19.81	19.37	19.38				
19	QPSK	36	36	19.41	19.52	19.44				
19	QPSK	75	0	19.52	19.44	19.42	20.5	1		
19	16QAM	1	37	19.76	19.72	19.64	20.5	1		
19	16QAM	1	74	19.76	19.72	19.64				
19	16QAM	36	0	18.40	18.57	18.50	19.5	2		
19	16QAM	36	20	18.48	18.48	18.61				
19	16QAM	36	36	18.46	18.46	18.46				
19	16QAM	75	0	18.48	18.48	18.48	19.5	2		
19	16QAM	75	0	18.38	18.49	18.37				
19	16QAM	36	0	18.46	18.38	18.18	19.5	2		
19	16QAM	36	20	18.46	18.38	18.18				
19	16QAM	36	36	18.41	18.23	18.26	18.5	3		
19	16QAM	75	0	18.44	18.25	18.34				
19	256QAM	1	37	18.58	18.51	18.51	18.5	5		
19	256QAM	1	74	18.78	18.58	18.70				
19	256QAM	1	37	18.57	18.51	18.82	18.5	5		
19	256QAM	36	0	18.56	18.56	18.48				
19	256QAM	36	20	18.75	18.52	18.55				
19	256QAM	36	36	18.44	18.55	18.31	18.5	5		
19	256QAM	75	0	18.44	18.55	18.31				
Channel										
Frequency (MHz)										
18	QPSK	1	0	20.47	20.48	20.38	21.5	0		
18	QPSK	1	49	20.43	20.48	20.48				
18	QPSK	1	74	20.61	20.41	20.57				
18	QPSK	36	0	19.63	19.70	19.63	20.5	1		
18	QPSK	36	20	19.75	19.71	19.69				
18	QPSK	36	36	19.69	19.61	19.67				
18	QPSK	75	0	19.70	19.69	19.72	20.5	1		
18	16QAM	1	37	19.91	19.90	19.93	20.5	1		
18	16QAM	1	74	19.90	19.90	19.88				
18	16QAM	36	0	18.69	18.70	18.80	19.5	2		
18	16QAM	36	20	18.77	18.73	18.78				
18	16QAM	36	36	18.48	18.38	18.39	19.5	2		
18	16QAM	75	0	18.74	18.68	18.75	19.5	2		
18	16QAM	75	0	18.29	18.46	18.29				
18	16QAM	36	0	18.39	18.39	18.39	19.5	2		
18	16QAM	36	20	18.27	18.25	18.25				
18	16QAM	36	36	18.27	18.25	18.25	18.5	3		
18	16QAM	75	0	18.27	18.25	18.25				
18	16QAM	75	0	18.44	18.44	18.38	18.5	3		
18	16QAM	36	0	18.44	18.33	18.33				
18	16QAM	36	20	18.44	18.41	18.38				
18	16QAM	36	36	18.44	18.33	18.33	18.5	3		
18	256QAM	1	37	18.01	18.04	18.06	18.5	5		
18	256QAM	1	74	18.01	18.04	18.06				
18	256QAM	1	37	18.01	18.04	18.06	18.5	5		
18	256QAM	36	0	18.56	18.56	18.56				
18	256QAM	36	20	18.55	18.52	18.52				
18	256QAM	36	36	18.52	18.53	18.52	18.5	5		
18	256QAM	75	0	18.56	18.56	18.52				
Channel										
Frequency (MHz)										
17	QPSK	1	0	20.47	20.48	20.38	21.5	0		
17	QPSK	1	49	20.43	20.48	20.48				
17	QPSK	1	74	20.61	20.41	20.57				
17	QPSK	36	0	19.63	19.70	19.63	20.5	1		
17	QPSK	36	20	19.75	19.71	19.69				
17	QPSK	36	36	19.69	19.61	19.67				
17	QPSK	75	0	19.70	19.69	19.72	20.5	1		
17	16QAM	1	37	19.91	19.90	19.93	20.5	1		
17	16QAM	1	74	19.90	19.90	19.88				
17	16QAM	36	0	18.69	18.70	18.80	19.5	2		
17	16QAM	36	20	18.77	18.73	18.78				
17	16QAM	36	36	18.48	18.38	18.39	19.5	2		
17	16QAM	75	0	18.74	18.68	18.75	19.5	2		
17	16QAM	75	0	18.29	18.46	18.29				
17	16QAM	36	0	18.39	18.39	18.39	19.5	2		
17	16QAM	36	20	18.27	18.25	18.25				
17	16QAM	36	36	18.27	18.25	18.25	18.5	3		
17	16QAM	75	0	18.27	18.25	18.25				
17	16QAM	75	0	18.44	18.44	18.38	18.5	3		
17	16QAM	36	0	18.44	18.33	18.33				
17	16QAM	36	20	18.44	18.41	18.38				
17	16QAM	36	36	18.44	18.33	18.33	18.5	3		
17	256QAM	1	37	18.01	18.04	18.06	18.5	5		
17	256QAM	1	74	18.01	18.04	18.06				
17	256QAM	1	37	18.01	18.04	18.06	18.5	5		
17	256QAM	36	0	18.56	18.56	18.56				
17	256QAM	36	20	18.55	18.52	18.52				
17	256QAM	36	36	18.52	18.53	18.52	18.5	5		
17	256QAM	75	0	18.56	18.56	18.52				
Channel										
Frequency (MHz)										
16	QPSK	1	0	20.47	20.48	20.38	21.5	0		
16	QPSK	1	49	20.43	20.48	20.48				
16	QPSK	1	74	20.61	20.41	20.57				
16	QPSK	36	0	19.63	19.70	19.63	20.5	1		
16	QPSK	36	20	19.75	19.71	19.69				
16	QPSK	36	36	19.69	19.61	19.67				
16	QPSK	75	0	19.70	19.69	19.72	20.5	1		
16	16QAM	1	37	19.91	19.90	19.93	20.5	1		
16	16QAM	1	74	19.90	19.90	19.88				
16	16QAM	36	0	18.69	18.70	18.80	19.5	2		
16	16QAM	36	20	18.77	18.73	18.78				
16	16QAM	36	36	18.48	18.38	18.39	19.5	2		
16	16QAM	75	0	18.74	18.68	18.75	19.5	2		
16	16									



Band 25 ENDUC Hotspot										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
1800 1800 1800										
20	QPSK	1	0	17.50	17.60	17.67				
20	QPSK	1	49	17.47	17.57	17.63			19	0
20	QPSK	1	99	17.53	17.60	17.68				
20	QPSK	50	0	16.76	16.78	16.59				
20	QPSK	50	24	16.73	16.83	16.83			18	1
20	QPSK	50	50	16.72	16.57	16.80				
20	QPSK	100	0	16.64	16.71	16.56				
20	QPSK	100	9	16.75	16.57	16.58			18	1
20	16QAM	1	49	16.90	16.81	16.88				
20	16QAM	50	0	15.74	15.74	15.85				
20	16QAM	50	24	15.74	15.65	15.59			17	2
20	16QAM	50	50	15.70	15.83	15.82				
20	16QAM	100	0	15.66	15.66	15.80				
20	16QAM	100	9	15.45	15.34	15.19			17	2
20	16QAM	1	49	15.35	15.24	15.25				
20	16QAM	50	0	15.45	15.30	15.20				
20	16QAM	50	24	15.41	15.21	15.35			16	3
20	16QAM	50	50	15.33	15.34	15.36				
20	16QAM	100	0	15.40	15.30	15.20				
20	16QAM	100	9	15.20	15.24	15.20			17	2
20	256QAM	1	49	12.80	12.78	12.86				
20	256QAM	1	99	13.11	13.00	13.04			14	5
20	256QAM	50	24	13.03	12.85	12.86				
20	256QAM	50	50	12.86	12.63	12.62			14	5
20	256QAM	100	0	12.78	12.64	12.64				
Channel										
1807.5 1800 1807.5										
15	QPSK	1	0	17.61	17.56	17.50				
15	QPSK	1	37	17.54	17.49	17.40			19	0
15	QPSK	1	74	17.54	17.49	17.59				
15	QPSK	36	0	16.60	16.66	16.63				
15	QPSK	36	25	16.66	16.26	16.69			18	1
15	QPSK	36	39	16.61	16.61	16.61				
15	QPSK	75	0	16.70	16.60	16.73				
15	16QAM	1	37	16.70	16.60	16.73			18	1
15	16QAM	1	74	16.62	16.59	16.55				
15	16QAM	36	25	15.62	15.61	15.55			17	2
15	16QAM	36	29	15.67	15.69	15.67				
15	16QAM	36	39	15.62	15.62	15.64				
15	16QAM	75	0	15.62	15.65	15.64				
15	16QAM	1	9	15.76	15.72	15.80			17	2
15	16QAM	1	37	15.77	15.69	15.71				
15	16QAM	1	74	15.76	15.65	15.67				
15	16QAM	36	0	14.70	14.77	14.88			16	3
15	16QAM	36	25	14.76	14.63	14.73				
15	16QAM	36	39	14.66	14.61	14.65				
15	16QAM	75	0	14.73	14.68	14.70				
15	256QAM	1	37	12.86	12.75	12.87			14	5
15	256QAM	1	74	13.16	12.96	13.12				
15	256QAM	36	25	13.04	12.94	12.96				
15	256QAM	36	29	12.78	12.64	12.64			14	5
15	256QAM	75	0	12.78	12.64	12.64				
Channel										
1809 1800 1809										
10	QPSK	1	0	17.62	17.57	17.56				
10	QPSK	1	25	17.62	17.57	17.56			19	0
10	QPSK	1	49	17.62	17.52	17.57				
10	QPSK	12	0	16.66	16.66	16.66				
10	QPSK	25	12	16.67	16.63	16.63			18	1
10	QPSK	25	25	16.68	16.61	16.71				
10	16QAM	1	25	16.70	16.60	16.64				
10	16QAM	1	0	16.67	16.59	16.65			18	1
10	16QAM	1	26	17.03	16.94	16.80				
10	16QAM	12	0	16.67	16.67	16.67				
10	16QAM	25	0	15.71	15.63	15.59			17	2
10	16QAM	25	12	15.72	15.66	15.72				
10	16QAM	36	25	15.73	15.68	15.74				
10	16QAM	50	0	15.71	15.61	15.65				
10	16QAM	1	0	15.62	15.71	15.78			17	2
10	16QAM	1	26	15.81	15.69	15.69				
10	16QAM	1	49	15.68	15.65	15.67				
10	16QAM	25	0	14.68	14.73	14.65			16	3
10	16QAM	25	12	14.74	14.66	14.72				
10	16QAM	25	26	14.73	14.66	14.72				
10	16QAM	50	0	14.76	14.60	14.68				
10	256QAM	1	26	12.81	12.72	12.79			14	5
10	256QAM	1	49	13.14	12.92	13.14				
10	256QAM	12	0	12.96	12.84	12.87				
10	256QAM	25	12	13.09	13.03	12.87			14	5
10	256QAM	25	25	12.72	12.68	12.59				
10	256QAM	50	0	12.78	12.60	12.75				
Channel										
1809 1800 1809										
5	QPSK	1	0	17.60	17.54	17.43				
5	QPSK	1	12	17.59	17.42	17.43			19	0
5	QPSK	1	24	17.64	17.54	17.65				
5	QPSK	12	0	16.66	16.66	16.66				
5	QPSK	12	7	16.75	16.68	16.67			18	1
5	QPSK	12	13	16.68	16.62	16.69				
5	QPSK	25	12	16.66	16.56	16.67				
5	16QAM	1	0	16.61	16.67	16.50			18	1
5	16QAM	1	12	16.61	16.46	16.64				
5	16QAM	1	24	16.75	16.67	16.64				
5	16QAM	12	0	15.68	15.62	15.59			17	2
5	16QAM	12	7	15.74	15.66	15.70				
5	16QAM	12	13	15.72	15.70	15.82				
5	16QAM	25	0	15.74	15.69	15.63				
5	16QAM	1	0	15.81	15.72	15.86			17	2
5	16QAM	1	12	15.83	15.69	15.80				
5	16QAM	1	24	15.84	15.87	15.82				
5	16QAM	12	0	14.74	14.63	14.62			16	3
5	16QAM	12	7	14.79	14.73	14.73				
5	16QAM	12	13	14.77	14.70	14.68				
5	16QAM	25	0	14.66	14.59	14.56				
5	256QAM	1	0	12.88	12.81	12.88			14	5
5	256QAM	1	12	12.80	12.73	12.71				
5	256QAM	1	24	13.14	12.97	13.15				
5	256QAM	12	0	12.97	12.93	12.88				
5	256QAM	12	7	13.02	13.04	12.89			14	5
5	256QAM	12	13	12.67	12.65	12.66				
5	256QAM	25	0	12.89	12.88	12.89				
Channel										
1809 1800 1809										
3	QPSK	1	0	17.57	17.63	17.64				
3	QPSK	1	14	17.49	17.56	17.62			19	0
3	QPSK	1	28	17.67	17.56	17.68				
3	QPSK	8	4	16.62	16.57	16.61				
3	QPSK	8	7	16.66	16.63	16.63			21	1
3	QPSK	15	4	16.65	16.44	16.54				
3	16QAM	1	0	16.58	16.77	16.71			21	1
3	16QAM	1	8	16.78	16.65	16.77				
3	16QAM	1	16	16.89	16.80	16.84			18	1
3	16QAM	8	0	15.70	15.61	15.59				
3	16QAM	8	4	15.77	15.65	15.64			17	2
3	16QAM	15	0	15.72	15.62	15.70				
3	16QAM	1	0	15.75	15.56	15.65				
3	16QAM	1	8	16.26	16.16	16.33			17	2
3	16QAM	1	16	16.42	16.27	16.33				
3	16QAM	1	14	16.42	16.27	16.41				
3	16QAM	8	0	15.40	15.24	15.37			16	3
3	16QAM	8	4	15.26	15.41	15.34				
3	16QAM	8	7	15.41	15.30	15.44				
3	16QAM	15	0	15.43	15.29	15.23				
3	256QAM	1	0	12.89	12.92	12.89			17	5
3	256QAM	1	8	12.88						



Band 4 ENDC Hotspot										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.30	18.33	18.15				
20	QPSK	1	99	18.12	18.31	18.15	19.5	0		
20	QPSK	50	0	17.38	17.44	17.36				
20	QPSK	50	24	17.34	17.24	17.28				
20	QPSK	50	50	17.38	17.30	17.29	18.5	1		
20	QPSK	100	0	17.21	17.31	17.27				
20	QPSK	100	0	17.68	17.57	17.69				
20	HQAM	1	49	17.38	17.48	17.47	18.5	1		
20	HQAM	1	99	17.47	17.54	17.54				
20	HQAM	50	0	16.48	16.31	16.43				
20	HQAM	50	24	16.39	16.21	16.38	17.5	2		
20	HQAM	50	50	16.37	16.26	16.27				
20	HQAM	100	0	16.36	16.26	16.29				
20	HQAM	1	0	16.35	16.50	16.55				
20	HQAM	1	49	16.58	16.27	16.31	17.5	2		
20	HQAM	50	0	16.29	16.18	16.34				
20	HQAM	50	0	15.46	16.31	15.40				
20	HQAM	50	24	15.49	15.29	15.36	16.5	3		
20	HQAM	50	24	15.33	15.27	15.26				
20	HQAM	100	0	15.33	15.33	15.36				
20	SSBAM	1	49	13.64	13.68	13.64	14.5	5		
20	SSBAM	1	99	13.79	13.78	13.91				
20	SSBAM	50	0	13.38	13.42	13.29	14.5	5		
20	SSBAM	50	24	13.33	13.31	13.26	14.5	5		
20	SSBAM	50	50	13.22	13.30	13.43				
20	SSBAM	100	0	13.29	13.30	13.29				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.30	18.23	18.21				
15	QPSK	1	99	18.07	18.29	18.26	19.5	0		
15	QPSK	1	74	18.16	18.11	18.11				
15	QPSK	36	0	17.29	17.37	17.42				
15	QPSK	36	24	17.33	17.26	17.41	18.5	1		
15	QPSK	36	39	17.32	17.24	17.27				
15	QPSK	75	0	17.62	17.41	17.41				
15	QPSK	75	0	17.66	17.65	17.64				
15	HQAM	1	37	17.40	17.49	17.49	18.5	1		
15	HQAM	1	74	17.41	17.48	17.48				
15	HQAM	36	0	16.34	16.34	16.40				
15	HQAM	36	20	16.29	16.22	16.28	17.5	2		
15	HQAM	39	0	16.28	16.28	16.29				
15	HQAM	75	0	16.30	16.24	16.31				
15	HQAM	1	0	16.40	16.31	16.28				
15	HQAM	1	49	16.37	16.34	16.34	17.5	2		
15	HQAM	1	74	16.32	16.23	16.47				
15	HQAM	36	0	15.42	16.39	15.38				
15	HQAM	36	20	15.38	15.33	15.39	16.5	3		
15	HQAM	36	39	15.33	15.32	15.35				
15	HQAM	75	0	15.33	15.28	15.33				
15	SSBAM	1	37	13.60	13.76	13.68	14.5	5		
15	SSBAM	1	74	13.79	13.79	13.87				
15	SSBAM	36	0	13.38	13.38	13.29	14.5	5		
15	SSBAM	36	20	13.39	13.22	13.31	14.5	5		
15	SSBAM	36	39	13.28	13.34	13.29				
15	SSBAM	75	0	13.24	13.30	13.29				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.30	18.26	18.27				
10	QPSK	1	25	18.06	18.03	18.10	19.5	0		
10	QPSK	1	49	18.12	18.11	18.14				
10	QPSK	1	74	18.18	18.18	18.18				
10	QPSK	25	0	17.38	17.32	17.32	18.5	1		
10	QPSK	25	12	17.47	17.36	17.38				
10	QPSK	25	25	17.40	17.30	17.30				
10	HQAM	1	0	17.69	17.61	17.52	18.5	1		
10	HQAM	1	25	17.51	17.54	17.29				
10	HQAM	25	0	16.34	16.28	16.29				
10	HQAM	25	12	16.40	16.40	16.40	17.5	2		
10	HQAM	25	12	16.28	16.28	16.29				
10	HQAM	50	0	16.29	16.28	16.40				
10	HQAM	1	0	16.28	16.34	16.40	17.5	2		
10	HQAM	1	24	16.33	16.30	16.33				
10	HQAM	1	49	16.34	16.38	16.53				
10	HQAM	25	0	15.40	16.18	15.35				
10	HQAM	25	12	15.37	15.36	15.39	16.5	3		
10	HQAM	25	25	15.35	15.28	15.33				
10	HQAM	50	0	15.26	15.33	15.41				
10	SSBAM	1	25	13.74	13.62	13.62	14.5	5		
10	SSBAM	1	25	13.64	13.75	13.74				
10	SSBAM	1	49	13.76	13.71	13.90				
10	SSBAM	1	24	13.34	13.50	13.50	14.5	5		
10	SSBAM	25	12	13.31	13.26	13.27	14.5	5		
10	SSBAM	25	25	13.33	13.31	13.38				
10	SSBAM	50	0	13.34	13.40	13.26				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.30	18.23	18.21				
5	QPSK	1	12	18.23	18.21	18.25	19.5	0		
5	QPSK	1	24	18.25	18.09	18.17				
5	QPSK	12	0	17.30	17.26	17.28				
5	QPSK	12	7	17.39	17.38	17.34	18.5	1		
5	QPSK	12	13	17.28	17.27	17.27				
5	QPSK	25	0	17.38	17.32	17.32	18.5	1		
5	HQAM	1	0	17.38	17.69	17.34	18.5	1		
5	HQAM	1	12	17.48	17.36	17.34				
5	HQAM	1	24	17.33	17.34	17.34				
5	HQAM	12	0	16.23	16.31	16.01				
5	HQAM	12	7	16.39	16.36	16.22	17.5	2		
5	HQAM	12	13	16.38	16.36	16.40				
5	HQAM	25	0	16.34	16.29	16.27				
5	HQAM	1	0	16.25	16.45	16.32	17.5	2		
5	HQAM	1	12	16.28	16.30	16.34				
5	HQAM	1	24	16.86	16.40	16.60				
5	HQAM	12	0	15.40	16.35	15.37				
5	HQAM	12	7	15.43	15.11	15.28	16.5	3		
5	HQAM	12	13	15.35	15.35	15.31				
5	HQAM	25	0	15.40	15.29	15.20				
5	SSBAM	1	0	13.76	13.98	13.94	14.5	5		
5	SSBAM	1	12	13.61	13.79	13.80				
5	SSBAM	1	24	13.77	13.69	13.99				
5	SSBAM	1	12	13.41	13.54	13.67	14.5	5		
5	SSBAM	12	7	13.25	13.27	13.20	14.5	5		
5	SSBAM	12	13	13.41	13.24	13.40				
5	SSBAM	25	0	13.30	13.41	13.30				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.14	18.14	18.17				
3	QPSK	1	8	18.18	18.22	18.24	19.5	0		
3	QPSK	1	14	18.19	18.13	18.27				
3	QPSK	3	0	17.31	17.26	17.28				
3	QPSK	3	4	17.36	17.28	17.27	18.5	1		
3	QPSK	3	7	17.30	17.22	17.30				
3	HQAM	1	0	17.38	17.28	17.25	18.5	1		
3	HQAM	1	0	17.65	17.70	17.33	18.5	1		
3	HQAM	1	14	17.41	17.48	17.56				
3	HQAM	3	0	16.35	16.38	16.19				
3	HQAM	3	4	16.50	16.43	16.37	17.5	2		
3	HQAM	3	7	16.37	16.39	16.35				
3	HQAM	15	0	16.39	16.31	16.35				
3	HQAM	1	0	16.41	16.56	16.39	17.5	2		
3	HQAM	1	8	16.63	16.39	16.34				
3	HQAM	1	14	16.54	16.23	16.51				
3	HQAM	3	0	15.27	16.42	15.27				
3	HQAM	3	4	15.32	15.27	15.21	16.5	3		
3	HQAM	3	7	15.35	15.35	15.33				
3	SSBAM	15	0	13.67	13.86	13.87	14.5	5		



Band 7 ENDC Hotspot									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	18.52	18.44	18.11			
20	QPSK	1	49	18.52	18.21	18.14	19.5	0	
20	QPSK	1	99	18.41	18.26	17.98			
20	QPSK	50	0	17.40	17.43	17.17			
20	QPSK	50	24	17.40	17.33	17.25	18.5	1	
20	QPSK	50	50	17.37	17.28	17.11			
20	QPSK	100	0	17.13	17.28	17.18			
20	HQAM	1	0	17.45	17.40	17.17			
20	HQAM	1	49	17.48	17.45	17.45	18.5	1	
20	HQAM	1	99	17.48	17.38	17.28			
20	HQAM	50	0	16.97	16.97	16.98			
20	HQAM	50	24	16.98	16.95	16.10	17.5	2	
20	HQAM	50	50	16.90	16.93	16.11			
20	HQAM	100	0	16.99	16.97	16.94			
20	HQAM	1	0	16.43	16.26	16.20			
20	HQAM	1	49	16.46	16.29	16.10	17.5	2	
20	HQAM	1	99	16.42	16.17	16.23			
20	HQAM	50	0	15.98	15.91	15.18			
20	HQAM	50	24	15.45	15.34	15.28	16.5	3	
20	HQAM	50	50	15.41	15.26	15.25			
20	HQAM	100	0	15.20	15.31	15.14			
20	SSBQAM	1	0	13.44	13.41	13.08			
20	SSBQAM	1	49	13.40	13.18	13.08	14.5	5	
20	SSBQAM	1	99	13.14	13.20	13.16			
20	SSBQAM	50	0	13.20	13.25	13.25			
20	SSBQAM	50	24	13.35	13.16	13.25	14.5	5	
20	SSBQAM	50	50	13.22	13.13	13.22			
20	SSBQAM	100	0	13.28	13.27	13.28			
Channel									
Frequency (MHz)									
15	QPSK	1	0	18.38	18.38	18.10			
15	QPSK	1	37	18.43	18.25	18.09	19.5	0	
15	QPSK	1	74	18.41	18.17	18.00			
15	QPSK	50	0	17.43	17.30	17.17			
15	QPSK	50	20	17.45	17.41	17.21	18.5	1	
15	QPSK	50	38	17.42	17.26	17.14			
15	QPSK	75	0	17.45	17.29	17.16			
15	HQAM	1	0	17.45	17.42	17.32			
15	HQAM	1	37	17.37	17.40	17.11	18.5	1	
15	HQAM	1	74	17.44	17.29	17.28			
15	HQAM	50	0	16.90	16.19	16.13	17.5	2	
15	HQAM	50	20	16.48	16.37	16.18			
15	HQAM	50	38	16.49	16.37	16.20			
15	HQAM	75	0	16.48	16.36	16.24			
15	HQAM	1	0	16.42	16.44	16.31			
15	HQAM	1	37	16.48	16.37	16.20	17.5	2	
15	HQAM	1	74	16.24	16.35	16.10			
15	HQAM	50	0	15.97	15.91	15.05			
15	HQAM	50	20	15.48	15.37	15.25	16.5	3	
15	HQAM	50	38	15.45	15.29	15.10			
15	HQAM	75	0	15.49	15.33	15.24			
15	SSBQAM	1	0	13.48	13.36	13.28			
15	SSBQAM	1	37	13.44	13.23	13.22	14.5	5	
15	SSBQAM	1	74	13.27	13.29	13.21			
15	SSBQAM	50	0	13.21	13.31	13.29			
15	SSBQAM	50	20	13.41	13.09	13.21	14.5	5	
15	SSBQAM	50	38	13.22	13.13	13.28			
15	SSBQAM	100	0	13.25	13.27	13.28			
Channel									
Frequency (MHz)									
10	QPSK	1	0	18.20	18.16	18.08			
10	QPSK	1	25	18.20	18.02	17.88	19.5	0	
10	QPSK	1	49	18.28	18.08	17.88			
10	QPSK	25	0	17.40	17.38	17.20			
10	QPSK	25	12	17.50	17.32	17.11	18.5	1	
10	QPSK	25	25	17.46	17.33	17.18			
10	HQAM	1	0	17.48	17.34	17.20			
10	HQAM	1	0	17.52	17.11	17.06			
10	HQAM	1	25	17.39	17.21	17.15	18.5	1	
10	HQAM	1	49	17.24	17.04	16.96			
10	HQAM	25	0	16.40	16.38	16.17			
10	HQAM	25	12	16.47	16.33	16.16	17.5	2	
10	HQAM	25	25	16.46	16.36	16.10			
10	HQAM	50	0	16.48	16.38	16.11			
10	HQAM	1	0	16.33	16.43	16.16			
10	HQAM	1	25	16.47	16.17	16.10	17.5	2	
10	HQAM	1	49	16.28	16.18	16.18			
10	HQAM	25	0	15.46	15.40	15.10			
10	HQAM	25	12	15.45	15.38	15.10	16.5	3	
10	HQAM	25	25	15.47	15.27	15.22			
10	HQAM	50	0	15.41	15.35	15.08			
10	SSBQAM	1	0	13.48	13.12	13.25			
10	SSBQAM	1	25	13.39	13.19	13.10	14.5	5	
10	SSBQAM	1	49	13.10	13.10	13.04			
10	SSBQAM	25	0	13.20	13.27	13.24			
10	SSBQAM	25	12	13.41	13.09	13.24	14.5	5	
10	SSBQAM	25	25	13.15	13.16	13.20			
10	SSBQAM	50	0	13.25	13.35	13.10			
Channel									
Frequency (MHz)									
5	QPSK	1	0	18.25	18.10	17.89			
5	QPSK	1	12	18.31	18.02	18.07	19.5	0	
5	QPSK	1	24	18.20	18.16	17.94			
5	QPSK	12	0	17.43	17.35	17.11			
5	QPSK	12	7	17.46	17.33	17.20	18.5	1	
5	QPSK	12	13	17.38	17.30	17.07			
5	HQAM	1	0	17.28	17.33	17.20			
5	HQAM	1	0	17.35	17.22	17.34	18.5	1	
5	HQAM	1	12	17.37	17.03	17.34			
5	HQAM	12	0	16.90	16.29	16.28			
5	HQAM	12	7	16.90	16.36	16.18	17.5	2	
5	HQAM	12	13	16.47	16.32	16.20			
5	HQAM	25	0	16.47	16.33	16.10			
5	HQAM	1	0	16.44	16.35	16.44			
5	HQAM	1	12	16.59	16.20	16.17	17.5	2	
5	HQAM	1	24	16.46	16.33	16.10			
5	HQAM	12	0	15.46	15.24	15.18			
5	HQAM	12	7	15.41	15.32	15.21	16.5	3	
5	HQAM	12	13	15.44	15.23	15.10			
5	HQAM	25	0	15.47	15.26	15.12			
5	SSBQAM	1	0	13.47	13.20	13.12			
5	SSBQAM	1	12	13.33	13.17	13.27	14.5	5	
5	SSBQAM	1	24	13.07	13.00	12.98			
5	SSBQAM	12	0	13.30	13.42	13.36			
5	SSBQAM	12	7	13.48	13.10	13.27	14.5	5	
5	SSBQAM	12	13	13.11	13.14	13.20			
5	SSBQAM	25	0	13.61	13.50	13.07			

Band 30 ENDC Hotspot									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	20.75					
10	QPSK	1	25	20.65			22	0	
10	QPSK	1	49	20.84					
10	QPSK	25	0	19.75					
10	QPSK	25	12	19.68			21	1	
10	QPSK	25	25	19.72					
10	QPSK	50	0	19.72					
10	HQAM	1	0	19.88					
10	HQAM	1	25	20.06			21	1	
10	HQAM	1	49	20.25					
10	HQAM	25	0	19.74					
10	HQAM	25	12	19.76			20	2	
10	HQAM	25	25	19.70					
10	HQAM	50	0	19.83					
10	HQAM	1	0	19.46					
10	HQAM	1	25	19.91			20	2	
10	HQAM	1	49	19.18					
10	HQAM	25	0	17.72					
10	HQAM	25	12	17.76			19	3	
10	HQAM	25	25	17.69					
10	HQAM	50	0	17.74					
10	SSBQAM	1	0	16.07					
10	SSBQAM	1	25	15.97			17	5	
10	SSBQAM	1	49	16.17					
10	SSBQAM	25	0	15.85					
10	SSBQAM	25	12	15.82			17		



Band 38 ENDC Hotspot								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37650	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	21.73	21.79	21.65	22.5	0
20	QPSK	1	49	21.67	21.65	21.66		
20	QPSK	1	99	21.67	21.64	21.57		
20	QPSK	50	0	20.77	20.86	20.65	21.5	1
20	QPSK	50	24	20.64	20.71	20.62		
20	QPSK	50	50	20.79	20.73	20.74		
20	QPSK	100	0	20.71	20.79	20.68	21.5	1
20	16QAM	1	0	21.03	20.87	20.87		
20	16QAM	1	49	20.83	20.71	20.70		
20	16QAM	1	99	20.68	20.66	20.88	20.5	2
20	16QAM	50	0	19.87	19.80	19.92		
20	16QAM	50	24	20.01	19.65	19.83		
20	16QAM	50	50	19.89	19.74	19.89	20.5	2
20	16QAM	100	0	20.03	19.81	19.84		
20	64QAM	1	0	19.59	19.30	19.35		
20	64QAM	1	49	19.38	19.27	19.35	19.5	3
20	64QAM	1	99	19.25	19.38	19.37		
20	64QAM	50	0	19.09	18.75	18.94		
20	64QAM	50	24	19.08	18.86	18.91	17.5	5
20	64QAM	50	50	18.88	18.87	18.87		
20	64QAM	100	0	18.94	18.87	18.81		
20	256QAM	1	0	17.00	16.88	16.87	17.5	5
20	256QAM	1	49	16.97	16.62	16.78		
20	256QAM	1	99	16.95	16.75	16.74		
20	256QAM	50	0	17.09	16.84	16.99	17.5	5
20	256QAM	50	24	16.95	16.63	16.73		
20	256QAM	50	50	16.78	16.99	16.80		
20	256QAM	100	0	16.66	16.85	16.89		
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	21.72	21.63	21.57	22.5	0
15	QPSK	1	37	21.63	21.60	21.59		
15	QPSK	1	74	21.63	21.50	21.55		
15	QPSK	36	0	20.92	20.65	20.78	21.5	1
15	QPSK	36	20	20.79	20.72	20.75		
15	QPSK	36	39	20.73	20.77	20.76		
15	QPSK	75	0	20.92	20.73	20.79	21.5	1
15	16QAM	1	0	20.93	20.75	20.91		
15	16QAM	1	37	20.79	20.88	20.91		
15	16QAM	1	74	20.88	20.55	20.81	20.5	2
15	16QAM	36	0	20.02	19.72	19.90		
15	16QAM	36	20	19.85	19.67	19.64		
15	16QAM	36	39	19.76	19.80	19.83	20.5	2
15	16QAM	75	0	19.97	19.76	19.83		
15	64QAM	1	0	19.57	19.17	19.26		
15	64QAM	1	37	19.45	19.20	19.40	19.5	3
15	64QAM	1	74	19.19	19.11	19.16		
15	64QAM	36	0	19.00	18.68	18.94		
15	64QAM	36	20	19.01	18.71	18.68	17.5	5
15	64QAM	36	39	18.66	18.74	18.85		
15	64QAM	75	0	18.90	18.73	18.88		
15	256QAM	1	0	17.04	16.72	16.80	17.5	5
15	256QAM	1	37	16.97	16.66	16.62		
15	256QAM	1	74	16.89	16.87	16.71		
15	256QAM	36	0	17.11	16.92	17.02	17.5	5
15	256QAM	36	20	17.00	16.77	16.80		
15	256QAM	36	39	16.90	17.03	16.99		
15	256QAM	75	0	16.53	16.75	16.84		
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	21.62	21.67	21.53	22.5	0
10	QPSK	1	25	21.67	21.59	21.66		
10	QPSK	1	49	21.65	21.53	21.70		
10	QPSK	25	0	20.91	20.66	20.92	21.5	1
10	QPSK	25	12	21.06	20.61	20.99		
10	QPSK	25	25	20.72	20.86	20.74		
10	QPSK	50	0	20.82	20.75	20.97	21.5	1
10	16QAM	1	0	21.07	20.76	20.90		
10	16QAM	1	25	21.00	20.77	21.07		
10	16QAM	1	49	20.89	20.67	20.96	20.5	2
10	16QAM	25	0	19.86	19.55	19.86		
10	16QAM	25	12	20.00	19.74	19.92		
10	16QAM	25	25	19.70	19.78	19.93	20.5	2
10	16QAM	50	0	19.91	19.61	20.02		
10	64QAM	1	0	19.53	19.18	19.46		
10	64QAM	1	25	19.74	19.53	19.58	19.5	3
10	64QAM	1	49	19.47	19.43	19.54		
10	64QAM	25	0	19.05	18.66	18.92		
10	64QAM	25	12	18.93	18.79	19.07	17.5	5
10	64QAM	25	25	18.85	18.83	19.06		
10	64QAM	50	0	18.91	18.77	18.83		
10	256QAM	1	0	16.99	16.79	16.85	17.5	5
10	256QAM	1	25	17.15	16.61	16.74		
10	256QAM	1	49	17.10	16.82	16.88		
10	256QAM	25	0	17.28	16.95	16.84	17.5	5
10	256QAM	25	12	16.85	16.74	16.62		
10	256QAM	25	25	16.90	17.07	16.78		
10	256QAM	50	0	16.64	16.75	16.67		
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	21.71	21.54	21.63	22.5	0
5	QPSK	1	12	21.58	21.74	21.79		
5	QPSK	1	24	21.66	21.62	21.72		
5	QPSK	12	0	20.89	20.51	20.76	21.5	1
5	QPSK	12	7	21.04	20.89	20.92		
5	QPSK	12	13	20.83	20.79	20.76		
5	QPSK	25	0	20.96	20.71	20.84	21.5	1
5	16QAM	1	0	21.06	20.83	20.76		
5	16QAM	1	12	21.00	20.67	20.98		
5	16QAM	1	24	20.87	20.61	20.90	20.5	2
5	16QAM	12	0	19.94	19.65	19.84		
5	16QAM	12	7	19.91	19.87	19.82		
5	16QAM	12	13	19.76	19.67	19.95	19.5	3
5	16QAM	25	0	19.89	19.67	19.76		
5	64QAM	1	0	19.53	19.29	19.42		
5	64QAM	1	12	19.36	19.21	19.51	17.5	5
5	64QAM	1	24	19.43	19.52	19.48		
5	64QAM	12	0	19.01	18.71	18.81		
5	64QAM	12	7	19.04	18.81	18.81	17.5	5
5	64QAM	12	13	18.81	18.74	18.75		
5	64QAM	25	0	19.02	18.71	18.89		
5	256QAM	1	0	17.05	16.98	16.84	17.5	5
5	256QAM	1	12	17.00	16.47	16.61		
5	256QAM	1	24	17.06	16.87	16.74		
5	256QAM	12	0	17.11	16.89	16.75	17.5	5
5	256QAM	12	7	16.91	16.68	16.61		
5	256QAM	12	13	16.84	17.34	16.99		
5	256QAM	25	0	16.63	16.83	16.80		

Uplink CA Power

Full Power Head + Body Worn+Hospot							Tune up Power (dBm)	
							24.5	
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.54	24.50
40185	40383	QPSK	1	99	1	0	23.47	24.50
40620	40422	QPSK	1	0	1	99	23.60	24.50
41055	40857	QPSK	1	0	1	99	23.58	24.50
41490	41292	QPSK	1	0	1	99	23.46	24.50



Downlink CA Power 2CA DL

CA List	PCC							SCC				Power	
	LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	With CA	Without CA
	Band	(MHz)	Freq.	Channel		RB	Offset	Band	(MHz)	Freq.	Channel	Tx. Power	Tx. Power
			(MHz)							(MHz)			
CA_4A-17A	Band 4	10M	1732.5	20175	QPSK	1	0	Band 17	10M	740	5790	23.58	23.82
	Band 17	10M	710	23790	QPSK	1	0	Band 4	10M	2132.5	2175	23.93	23.94
CA_4A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	23.80	23.82
	Band 7	20M	2535	21100	QPSK	1	0	Band 4	20M	2132.5	2175	25.03	25.19
CA_5A-7A	Band 5	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	24.22	24.15
	Band 7	20M	2535	21100	QPSK	1	0	Band 5	10M	881.5	2525	25.07	25.19
CA_5A-38A	Band 5	10M	836.5	20525	QPSK	1	0	Band 38	20M	2595	38000	24.06	24.15
	Band 38	20M	2595	38000	QPSK	1	0	Band 5	10M	881.5	2525	24.34	24.49
CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	24.16	24.15
	Band 41	20M	2593	40620	QPSK	1	0	Band 5	10M	881.5	2525	23.59	23.65
CA_7B	Band 7	15M	2535	21100	QPSK	1	0	Band 7	5M	2636.8	2918	25.06	25.19
CA_25A-41A	Band 25	20M	1880	26340	QPSK	1	0	Band 41	20M	2593	40620	23.59	23.76
	Band 41	20M	2593	40620	QPSK	1	0	Band 25	20M	1962.5	8365	23.47	23.65
CA_38C	Band 38	20M	2595	38000	QPSK	1	0	Band 38	20M	2614.8	38198	24.49	24.49

3CA DL

3CA List	PCC							SCC1				SCC2				Power	
	LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
	Band	(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
CA_4A-4A-71	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 71	20M	637	68786	23.69	23.82
	Band 71	20M	683	133322	QPSK	1	0	Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375	23.75	23.79
CA_4A-7C	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.77	23.82
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	25.18	25.19
CA_5A-7C	Band 5	10M	829	20450	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.19	24.15
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	25.18	25.19
CA_66A-66B	Band 66	20M	1745	132322	QPSK	1	0	Band 66	15M	2192.5	67261	Band 66	5M	2183.2	67168	23.84	23.94
CA_66A-66C	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	2190	67236	Band 66	20M	2170.2	67038	23.86	23.94
CA_66D	Band 66	20M	1720	132072	QPSK	1	0	Band 66	20M	2139.8	66734	Band 66	20M	2159.6	66932	23.92	23.94
CA_25A-25A-26A	Band 26	5M	831.5	26865	QPSK	1	24	Band 25	20M	1985	8590	Band 25	20M	2004.8	8788	24.08	24.10
	Band 25	20M	1880	26340	QPSK	1	0	Band 25	20M	1985	8590	Band 26	5M	876.5	8865	23.65	23.76
CA_26A-41C	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 26	15M	876.5	8865	23.42	23.65
	Band 26	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	Band 41	20M	2612.8	40818	24.08	24.16
CA_2A-7A-7A	Band 2	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	23.82	23.75
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	25.06	25.19
CA_2A-7C	Band 2	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.82	23.75
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	25.05	25.19
CA_2C-12A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.8	1098	Band 12	10M	737.5	5095	23.81	23.75
	Band 12	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 2	20M	1979.8	1098	23.84	23.98
CA_41A-41A-41A	Band 41	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	Band 41	20M	2506	39750	23.4	23.65



4CA DL

Configure	PCC										SCC1				SCC2				SCC4				Power		
	LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	Tx. Power (dBm)	Tx. Power (dBm)
	Band	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	With CA	Without CA
CA_2A-2A-4A-12A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	23.3	23.75	23.83	23.75		
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 12	10M	737.5	5095	23.77	23.82	23.83	23.82		
CA_2A-2A-4A-5A	Band 2	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	23.25	23.5	23.83	23.75		
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	23.65	23.82	23.65	23.82		
CA_2A-2A-4A-4A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375	23.65	23.75	23.65	23.75		
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	23.81	23.82	23.81	23.82		
CA_2A-2A-4A-71A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	Band 71	20M	637	68786	23.75	23.75	23.75	23.75		
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 71	20M	637	68786	23.64	23.82	23.64	23.82		
CA_2A-2A-5A-30A	Band 2	20M	683	13322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	23.59	23.79	23.59	23.79		
	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 30	10M	2355	9820	Band 5	10M	881.5	2525	23.86	23.75	23.86	23.75		
CA_2A-2A-5A-30A	Band 30	10M	2310	27710	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	22.51	22.93	22.51	22.93		
	Band 5	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 30	10M	2355	9820	24.21	24.15	24.21	24.15		
CA_2A-2A-5A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	Band 5	10M	881.5	2525	23.86	23.75	23.86	23.75		
	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	23.79	23.94	23.79	23.94		
CA_2A-2A-12A-30A	Band 5	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	24.12	24.15	24.12	24.15		
	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 12	10M	737.5	5095	Band 30	10M	2355	9820	23.82	23.75	23.82	23.75		
CA_2A-2A-12A-30A	Band 12	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 30	10M	2355	9820	23.79	23.98	23.79	23.98		
	Band 30	10M	2310	27710	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 12	10M	737.5	5095	22.57	22.93	22.57	22.93		
CA_2A-2A-12A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 12	10M	737.5	5095	Band 66	20M	2155	66886	23.72	23.75	23.72	23.75		
	Band 12	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	23.86	23.98	23.86	23.98		
CA_2A-2A-5B	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	Band 5	10M	891.4	2624	23.68	23.75	23.68	23.75		
	Band 5	10M	844	20600	QPSK	1	0	Band 5	10M	879.1	2501	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	24.22	24.15	24.22	24.15		
CA_2A-4A-5B	Band 2	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	Band 5	10M	891.4	2624	23.61	23.75	23.61	23.75		
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	Band 5	10M	891.4	2624	23.71	23.82	23.71	23.82		
CA_2A-5B-30A	Band 5	10M	844	20600	QPSK	1	0	Band 5	10M	879.1	2501	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.22	24.15	24.22	24.15		
	Band 2	20M	1880	18900	QPSK	1	0	Band 30	10M	2355	9820	Band 5	10M	881.5	2525	Band 5	10M	891.4	2624	23.71	23.75	23.71	23.75		
CA_2A-5B-66A	Band 30	10M	2310	27710	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	Band 5	10M	891.4	2624	22.54	22.93	22.54	22.93		
	Band 5	10M	844	20600	QPSK	1	0	Band 5	10M	879.1	2501	Band 2	20M	1960	900	Band 30	10M	2355	9820	24.23	24.15	24.23	24.15		
CA_2A-5B-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 66	20M	2155	66886	Band 5	10M	881.5	2525	Band 5	10M	891.4	2624	23.78	23.75	23.78	23.75		
	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	Band 5	10M	891.4	2624	23.89	23.94	23.89	23.94		
CA_2A-2A-66A-66A	Band 5	10M	844	20600	QPSK	1	0	Band 5	10M	879.1	2501	Band 2	20M	1960	900	Band 66	20M	2155	66886	24.09	24.15	24.09	24.15		
	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	Band 66	5M	2177.5	67111	23.75	23.75	23.75	23.75		
CA_2A-2A-66A-66A	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 2	5M	1987.5	1175	23.93	23.94	23.93	23.94		
	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	Band 71	20M	637	68786	23.78	23.75	23.78	23.75		
CA_2A-2A-66A-71A	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 71	20M	637	68786	23.93	23.94	23.93	23.94		
	Band 71	20M	683	13322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	23.66	23.79	23.66	23.79		
CA_2A-2A-66B	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	15M	2155	66886	Band 66	5M	2164.3	66979	23.84	23.75	23.84	23.75		
	Band 66	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.3	66979	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	23.8	23.94	23.8	23.94		
CA_2A-2A-66C	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	23.79	23.75	23.79	23.75		
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	23.94	23.94	23.94	23.94		
CA_2A-5A-66A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	15M	2155	66886	Band 66	5M	2164.3	66979	23.77	23.75	23.77	23.75		
	Band 5	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 66	15M	2155	66886	Band 66	5M	2164.3	66979	24.07	24.15	24.07	24.15		
CA_2A-5A-66B	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	2177.5	67111	Band 2	20M	1960	900	Band 5	10M	881.5	2525	23.93	23.94	23.93	23.94		
	Band 2	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	15M	2155	66886	Band 66	5M	2164.3	66979	23.72	23.75	23.72	23.75		
CA_2A-5A-66C	Band 5	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 66	15M	2155	66886	Band 66	5M	2164.3	66979	24.09	24.15	24.09	24.15		
	Band 66	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.3	66979	Band 2	20M	1960	900	Band 5	10M	881.5	2525	23.93	23.94	23.93	23.94		
CA_2A-5A-66C	Band 2	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	Band 66	5M	2177.5	67111	23.68	23.75	23.68	23.75		
	Band 5	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	Band 66	5M	2177.5	6						



Full Power Mode

n2 ANT 2 SA/NSA									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				1850	1880	1900			
20	PlZ BPSK	1	1	22.59	22.71	22.47			
20	PlZ BPSK	1	53	22.72	22.75	22.68	24.0	0.0	
20	PlZ BPSK	1	104	22.51	22.71	22.46			
20	PlZ BPSK	50	0	21.95	22.09	21.75	23.5	0.5	
20	PlZ BPSK	50	28	22.44	22.54	22.39	24.0	0.0	
20	PlZ BPSK	50	55	22.50	22.22	21.95			
20	PlZ BPSK	100	0	22.14	22.28	22.01	23.5	0.5	
20	QPSK	1	1	22.75	22.80	22.55			
20	QPSK	1	53	22.67	22.92	22.55	24.0	0.0	
20	QPSK	1	104	22.54	22.62	22.41			
20	QPSK	50	0	21.71	21.77	21.59	23.0	1.0	
20	QPSK	50	28	22.50	22.63	22.43	24.0	0.0	
20	QPSK	50	55	21.69	21.78	21.51			
20	QPSK	100	0	21.75	21.81	21.67	23.0	1.0	
20	16QAM	1	53	22.14	22.24	22.04	23.0	1.0	
20	16QAM	1	53	20.36	20.47	20.29	21.5	2.5	
20	256QAM	1	53	18.00	18.00	17.98	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit	MFR	
Frequency (MHz)				1897.5	1880	1902.5	(dBm)	(dB)	
15	QPSK	1	40	22.71	22.78	22.40	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit	MFR	
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)	
10	QPSK	1	26	22.56	22.61	22.37	24.0	0.0	
Channel				310000	316000	315000	Tune-up limit	MFR	
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	13	22.49	22.52	22.31	24.0	0.0	

n5 ANT 0 SA/NSA									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				16800	167300	167600			
20	PlZ BPSK	1	1	23.44	23.36	23.23			
20	PlZ BPSK	1	53	23.42	23.34	23.21	24.0	0.0	
20	PlZ BPSK	1	104	23.34	23.26	23.24			
20	PlZ BPSK	60	0	22.90	22.81	22.74	23.5	0.5	
20	PlZ BPSK	60	28	23.31	23.26	23.19	24.0	0.0	
20	PlZ BPSK	60	56	22.87	22.74	22.64			
20	PlZ BPSK	100	0	22.89	22.76	22.69	23.5	0.5	
20	QPSK	1	1	23.39	23.46	23.31			
20	QPSK	1	53	23.41	23.47	23.30	24.0	0.0	
20	QPSK	1	104	23.20	23.15	23.01			
20	QPSK	60	0	22.39	22.36	22.29	23.0	1.0	
20	QPSK	60	28	23.33	23.34	22.22	24.0	0.0	
20	QPSK	60	56	22.30	22.22	22.17			
20	QPSK	100	0	22.30	22.31	22.21	23.0	1.0	
20	16QAM	1	53	22.70	22.69	22.54	23.0	1.0	
20	16QAM	1	53	20.99	20.91	20.79	21.5	2.5	
20	256QAM	1	53	18.01	18.49	18.44	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit	MFR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	40	23.34	23.33	23.32	24.0	0.0	
Channel				167000	167300	167600	Tune-up limit	MFR	
Frequency (MHz)				829	836.5	844	(dBm)	(dB)	
10	QPSK	1	26	23.18	23.11	23.05	24.0	0.0	
Channel				162800	167300	167000	Tune-up limit	MFR	
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)	
5	QPSK	1	13	22.98	22.95	22.88	24.0	0.0	

n7 ANT 3 SA									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				50000	507000	512000			
20	PlZ BPSK	1	1	22.77	23.01	22.74			
20	PlZ BPSK	1	53	22.90	23.02	22.73	24.0	0.0	
20	PlZ BPSK	1	104	22.92	22.99	22.83			
20	PlZ BPSK	50	0	22.72	22.96	22.90	23.5	0.5	
20	PlZ BPSK	50	28	22.75	23.01	22.82	24.0	0.0	
20	PlZ BPSK	50	55	22.17	22.45	22.25			
20	PlZ BPSK	100	0	22.45	22.54	22.40	23.5	0.5	
20	QPSK	1	1	22.46	23.01	22.87			
20	QPSK	1	53	22.67	23.02	22.94	24.0	0.0	
20	QPSK	1	104	22.62	22.95	22.87			
20	QPSK	50	0	22.31	22.55	22.23	23.0	1.0	
20	QPSK	50	28	22.92	22.97	22.79	24.0	0.0	
20	QPSK	50	55	22.16	22.44	22.48			
20	QPSK	100	0	22.39	22.51	22.16	23.0	1.0	
20	16QAM	1	1	22.42	22.52	22.15	23.0	1.0	
20	16QAM	1	1	20.58	20.69	20.35	21.5	2.5	
20	256QAM	1	1	18.07	18.21	18.11	19.5	4.5	
Channel				501500	507000	512500	Tune-up limit	MFR	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)	
15	QPSK	1	40	22.63	22.87	22.79	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit	MFR	
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)	
10	QPSK	1	26	22.51	22.68	22.67	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit	MFR	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)	
5	QPSK	1	13	22.52	22.61	22.54	24.0	0.0	



n25 ANT 2 SA/NSA

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1850	1862.5	1900		
20	Pl2 BPSK	1	1	22.78	22.84	22.75		
20	Pl2 BPSK	1	53	22.51	22.76	22.26	24.0	0.0
20	Pl2 BPSK	1	104	22.62	22.72	22.35		
20	Pl2 BPSK	50	0	22.22	22.37	22.19	23.5	0.5
20	Pl2 BPSK	50	28	22.53	22.74	22.59	24.0	0.0
20	Pl2 BPSK	50	55	22.72	22.73	22.54		
20	Pl2 BPSK	100	0	22.09	22.22	22.01	23.5	0.5
20	QPSK	1	1	22.76	22.83	22.89		
20	QPSK	1	53	22.45	22.86	22.63	24.0	0.0
20	QPSK	1	104	22.63	22.90	22.63		
20	QPSK	50	0	21.99	22.01	21.92	23.0	1.0
20	QPSK	50	28	22.80	22.91	22.90	24.0	0.0
20	QPSK	50	55	21.99	21.94	21.84	23.0	1.0
20	QPSK	100	0	21.75	21.99	21.71	23.0	1.0
20	16QAM	1	1	21.88	22.26	22.12	23.0	1.0
20	16QAM	1	1	20.24	20.88	20.45	21.5	2.5
20	256QAM	1	1	17.97	18.32	18.10	19.5	4.5
Channel								
Frequency (MHz)				37150	37650	38150	Tune-up limit (dBm)	MFR (dB)
15	QPSK	1	40	22.40	22.92	22.92	24.0	0.0
Channel								
Frequency (MHz)				1855	1862.5	1910		
10	QPSK	1	26	22.62	22.94	22.85	24.0	0.0
Channel								
Frequency (MHz)				1852.5	1862.5	1912.5		
5	QPSK	1	13	22.87	22.95	22.53	24.0	0.0

n66 ANT 2 SA/NSA

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1720	1745	1770		
20	Pl2 BPSK	1	1	22.81	23.04	22.99		
20	Pl2 BPSK	1	53	22.89	22.96	22.88	24.0	0.0
20	Pl2 BPSK	1	104	22.72	23.04	22.89		
20	Pl2 BPSK	60	0	22.38	22.54	22.45	23.5	0.5
20	Pl2 BPSK	60	28	23.03	23.06	22.92	24.0	0.0
20	Pl2 BPSK	60	56	22.50	22.53	22.27		
20	Pl2 BPSK	100	0	22.30	22.45	22.05	23.5	0.5
20	QPSK	1	1	23.16	23.29	23.10		
20	QPSK	1	53	22.89	23.32	22.76	24.0	0.0
20	QPSK	1	104	22.96	23.11	22.77		
20	QPSK	60	0	21.75	22.06	21.84	23.0	1.0
20	QPSK	60	28	22.84	23.11	23.05	24.0	0.0
20	QPSK	60	56	21.64	22.01	21.63		
20	QPSK	100	0	22.12	22.14	21.78	23.0	1.0
20	16QAM	1	1	22.34	22.37	22.12	23.0	1.0
20	16QAM	1	1	20.72	20.75	20.39	21.5	2.5
20	256QAM	1	1	18.21	18.28	18.15	19.5	4.5
Channel								
Frequency (MHz)				34300	34900	35400	Tune-up limit (dBm)	MFR (dB)
15	QPSK	1	40	23.02	22.87	22.95	24.0	0.0
Channel								
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	26	22.91	22.65	22.55	24.0	0.0
Channel								
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	13	22.66	22.94	22.27	24.0	0.0

n71 ANT 0 SA/NSA

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				673	680.5	688		
20	Pl2 BPSK	1	1	23.00	23.25	23.18		
20	Pl2 BPSK	1	53	22.91	23.13	22.98	24.0	0.0
20	Pl2 BPSK	1	104	23.17	23.18	23.17		
20	Pl2 BPSK	50	0	22.30	22.71	22.59	23.5	0.5
20	Pl2 BPSK	50	28	22.85	23.09	22.77	24.0	0.0
20	Pl2 BPSK	50	56	22.28	22.58	22.42		
20	Pl2 BPSK	100	0	22.13	22.63	22.34	23.5	0.5
20	QPSK	1	1	23.14	23.26	23.23		
20	QPSK	1	53	23.15	23.29	23.07	24.0	0.0
20	QPSK	1	104	22.99	23.18	22.98		
20	QPSK	50	0	21.87	22.25	21.99	23.0	1.0
20	QPSK	50	28	22.97	23.21	22.87	24.0	0.0
20	QPSK	50	56	21.54	22.11	21.59		
20	QPSK	100	0	21.80	22.14	22.10	23.0	1.0
20	16QAM	1	1	21.65	21.91	21.53	23.0	1.0
20	16QAM	1	1	20.62	20.73	20.69	21.5	2.5
20	256QAM	1	1	18.25	18.50	18.33	19.5	4.5
Channel								
Frequency (MHz)				134100	136100	138100	Tune-up limit (dBm)	MFR (dB)
15	QPSK	1	40	22.74	23.26	23.11	24.0	0.0
Channel								
Frequency (MHz)				668	680.5	693		
10	QPSK	1	26	22.67	23.14	22.94	24.0	0.0
Channel								
Frequency (MHz)				665.5	680.5	696.5		
5	QPSK	1	13	22.61	23.06	22.79	24.0	0.0



n38 ANT 3 SA								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Tune-up limit (dBm)	MPR (dB)
Channel				516000	518000	520000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2560	2595	2610		
20	PI2 BPSK	1	1	23.16	23.22	23.3	24.0	0.0
20	PI2 BPSK	1	26	23.12	23.01	23.06		
20	PI2 BPSK	1	49	23.06	23.02	23.11		
20	PI2 BPSK	25	0	23.2	23.21	23.32	23.5	0.5
20	PI2 BPSK	25	13	23.16	23.07	23.09	24.0	0.0
20	PI2 BPSK	25	26	23.13	23.06	23.15	23.5	0.5
20	PI2 BPSK	50	0	23.11	23.11	23.21		
20	QPSK	1	1	23.33	23.34	23.3	24.0	0.0
20	QPSK	1	26	23.07	22.96	23.02		
20	QPSK	1	49	22.95	23.02	23.06		
20	QPSK	25	0	22.22	22.29	22.18	23.0	1.0
20	QPSK	25	13	23.09	23.09	23.07	24.0	0.0
20	QPSK	25	26	22.78	22.89	22.72	23.0	1.0
20	QPSK	50	0	22.38	22.47	22.39		
20	16QAM	1	1	22.45	22.39	22.52	23.0	1.0
20	64QAM	1	1	20.85	20.95	20.74	21.5	2.5
20	256QAM	1	1	18.4	18.46	18.18	19.5	4.5

n41 ANT 1 SA/NSA & UL MIMO PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518998	528000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	23.14	23.16	22.94	24.0	0.0	
100	PI2 BPSK	1	137	23.07	23.13	23.10			
100	PI2 BPSK	1	271	22.87	23.21	22.78			
100	PI2 BPSK	135	0	22.78	22.77	22.81	23.5	0.5	
100	PI2 BPSK	135	69	23.16	23.24	23.20	24.0	0.0	
100	PI2 BPSK	135	138	22.87	22.83	22.80	23.5	0.5	
100	PI2 BPSK	270	0	22.67	22.76	22.66			
100	QPSK	1	1	23.24	23.16	23.31	24.0	0.0	
100	QPSK	1	137	23.16	23.09	23.29			
100	QPSK	1	271	22.56	22.99	22.92			
100	QPSK	135	0	22.78	22.77	22.83	23.0	1.0	
100	QPSK	135	69	23.30	23.38	23.21	24.0	0.0	
100	QPSK	135	138	22.75	22.76	22.75	23.0	1.0	
100	QPSK	270	0	21.94	22.04	22.03			
100	16QAM	1	1	22.45	22.72	22.51	23.0	1.0	
100	64QAM	1	1	20.78	20.62	20.88	21.5	2.5	
100	256QAM	1	1	18.63	18.73	18.69	19.5	4.5	
Channel				502000	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2441	2592.99	2644.98			
80	QPSK	1	120	23.32	23.43	23.51	24.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2636.02	2693.99	2649.98			
80	QPSK	1	109	23.29	23.45	23.36	24.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
80	QPSK	1	81	23.11	23.32	23.28	24.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2654.98			
50	QPSK	1	67	23.23	23.35	23.41	24.0	0.0	
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	23.48	23.56	23.37	24.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2411	2592.99	2674.98			
30	QPSK	1	39	22.78	22.62	22.88	24.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.98			
20	QPSK	1	20	22.83	22.80	22.77	24.0	0.0	

n41 ANT 3 SA/NSA/UL MIMO PC2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518998	528000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	22.00	21.77	22.24	24.0	0.0	
100	PI2 BPSK	1	137	22.01	21.69	22.31			
100	PI2 BPSK	1	271	22.35	21.40	22.20			
100	PI2 BPSK	135	0	21.86	21.84	22.10	23.5	0.5	
100	PI2 BPSK	135	69	22.11	21.88	22.44	24.0	0.0	
100	PI2 BPSK	135	138	22.28	21.52	22.45	23.5	0.5	
100	PI2 BPSK	270	0	22.21	21.64	22.32			
100	QPSK	1	1	21.86	22.10	22.36	24.0	0.0	
100	QPSK	1	137	22.07	22.47	22.02			
100	QPSK	1	271	22.16	21.54	22.42			
100	QPSK	135	0	21.62	21.81	21.71	23.0	1.0	
100	QPSK	135	69	22.14	22.36	22.32	24.0	0.0	
100	QPSK	135	138	21.48	21.51	21.80	23.0	1.0	
100	QPSK	270	0	21.51	21.62	21.49			
100	16QAM	1	1	21.49	21.78	21.82	23.0	1.0	
100	64QAM	1	1	19.42	19.84	19.90	21.5	2.5	
100	256QAM	1	1	17.31	17.67	17.80	19.5	4.5	
Channel				505200	518998	539998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2441	2592.99	2644.98			
80	QPSK	1	120	22.50	22.47	22.54	24.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2636.02	2693.99	2649.98			
80	QPSK	1	109	22.28	22.25	22.33	24.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
80	QPSK	1	81	22.24	22.30	22.24	24.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2654.98			
50	QPSK	1	67	22.29	22.60	22.60	24.0	0.0	
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	22.33	22.40	22.34	24.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2411	2592.99	2674.98			
30	QPSK	1	39	22.40	22.39	22.34	24.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.98			
20	QPSK	1	20	22.33	22.45	22.36	24.0	0.0	



n77 ANT 4 SA & UL MIMO PC2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.21	22.35	22.41			
100	PI2 BPSK	1	137	21.89	22.02	22.15	24.0	0.0	
100	PI2 BPSK	1	271	21.92	21.98	21.89			
100	PI2 BPSK	135	0	21.52	21.68	21.64	23.5	0.5	
100	PI2 BPSK	135	69	21.89	21.96	22.05	24.0	0.0	
100	PI2 BPSK	135	138	21.84	21.24	21.29			
100	PI2 BPSK	270	0	21.14	21.27	21.43	23.5	0.5	
100	QPSK	1	1	21.59	21.73	21.72			
100	QPSK	1	137	21.86	22.53	21.96	24.0	0.0	
100	QPSK	1	271	20.98	21.1	21.2			
100	QPSK	135	0	21.88	22.18	22.34	23.0	1.0	
100	QPSK	135	69	21.87	22.34	22.09	24.0	0.0	
100	QPSK	135	138	21.37	21.58	21.63	23.0	1.0	
100	QPSK	270	0	22.26	22.09	22.05			
100	16QAM	1	1	21.38	21.39	21.36	23.0	1.0	
100	64QAM	1	1	19.66	19.76	19.85	21.5	2.5	
100	256QAM	1	1	18.27	18.41	18.44	19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	120	21.76	22.23	22.13	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.97	22.15	21.97	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	22.20	22.31	22.20	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.96	22.27	22.16	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	22.03	22.18	21.97	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	22.08	22.11	22.03	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	21.87	22.20	22.03	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	22.18	22.26	22.32	24.0	0.0	

n77 ANT 2 SA & UL MIMO PC2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.43	22.37	22.44			
100	PI2 BPSK	1	137	22.09	21.94	21.99	24.0	0.0	
100	PI2 BPSK	1	271	21.31	21.33	21.38			
100	PI2 BPSK	135	0	20.92	20.96	21.04	23.5	0.5	
100	PI2 BPSK	135	69	21.61	21.66	21.67	24.0	0.0	
100	PI2 BPSK	135	138	21.07	20.94	20.93			
100	PI2 BPSK	270	0	20.79	20.80	20.81	23.5	0.5	
100	QPSK	1	1	21.94	21.87	21.93			
100	QPSK	1	137	22.46	22.49	22.47	24.0	0.0	
100	QPSK	1	271	21.87	21.91	22.03			
100	QPSK	135	0	21.59	21.65	21.80	23.0	1.0	
100	QPSK	135	69	22.35	22.39	22.37	24.0	0.0	
100	QPSK	135	138	21.81	21.73	21.77	23.0	1.0	
100	QPSK	270	0	21.13	21.13	21.08			
100	16QAM	1	1	21.84	21.70	21.72	23.0	1.0	
100	64QAM	1	1	19.94	19.98	19.98	21.5	2.5	
100	256QAM	1	1	17.82	17.81	17.70	19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	120	22.14	22.06	22.34	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	22.28	22.31	22.28	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	22.20	22.31	22.42	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	22.36	22.35	22.37	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	22.29	22.32	22.33	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	22.22	22.32	22.34	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	22.25	22.33	22.30	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	22.36	22.39	22.31	24.0	0.0	



n78 ANT 4 SA&UL MIMO PC2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.10	3750				
100	PI2 BPSK	1	137	22.77			24.0	0.0	
100	PI2 BPSK	1	271	22.83					
100	PI2 BPSK	135	0	23.21			23.5	0.5	
100	PI2 BPSK	135	69	23.07			24.0	0.0	
100	PI2 BPSK	135	138	22.82					
100	PI2 BPSK	270	0	22.74			23.5	0.5	
100	QPSK	1	1	23.03					
100	QPSK	1	137	22.22			24.0	0.0	
100	QPSK	1	271	22.62					
100	QPSK	135	0	22.96			23.0	1.0	
100	QPSK	135	69	23.19			24.0	0.0	
100	QPSK	135	138	22.43			23.0	1.0	
100	QPSK	270	0	22.28			23.0	1.0	
100	16QAM	1	1	22.12			23.0	1.0	
100	64QAM	1	1	20.63			21.5	2.5	
100	256QAM	1	1	18.73			19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	120	23.16	23.17	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	23.27	23.14	23.04	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	23.10	23.18	23.15	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	23.14	23.16	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	23.17	23.18	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	23.13	23.17	22.96	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	23.11	23.10	22.86	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	23.11	23.15	23.07	24.0	0.0	

n78 ANT 4 NSA									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	21.06	3750				
100	PI2 BPSK	1	137	21.08			22.0	0.0	
100	PI2 BPSK	1	271	20.91					
100	PI2 BPSK	135	0	21.06			22.0	0.0	
100	PI2 BPSK	135	69	21.06			22.0	0.0	
100	PI2 BPSK	135	138	20.87					
100	PI2 BPSK	270	0	20.95			22.0	0.0	
100	QPSK	1	1	20.87					
100	QPSK	1	137	21.10			22.0	0.0	
100	QPSK	1	271	20.75					
100	QPSK	135	0	20.74					
100	QPSK	135	69	21.03			22.0	0.0	
100	QPSK	135	138	20.98					
100	QPSK	270	0	20.96			22.0	0.0	
100	16QAM	1	1	21.01			22.0	0.0	
100	64QAM	1	1	20.90			22.0	0.5	
100	256QAM	1	1	18.82			19.5	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	120	20.78	20.85	20.99	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	20.90	20.69	20.82	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	20.77	20.85	20.94	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	20.85	20.78	20.72	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	20.75	20.77	20.84	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	20.65	20.91	20.88	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	20.64	20.72	20.95	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	20.79	20.76	20.74	22.0	0.0	

n78 ANT 2 SA/NSA & UL MIMO PC2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	21.73	3750				
100	PI2 BPSK	1	137	22.25			24.0	0.0	
100	PI2 BPSK	1	271	22.08					
100	PI2 BPSK	135	0	22.02			23.5	0.5	
100	PI2 BPSK	135	69	22.11			24.0	0.0	
100	PI2 BPSK	135	138	22.20					
100	PI2 BPSK	270	0	21.97			23.5	0.5	
100	QPSK	1	1	22.11					
100	QPSK	1	137	22.26			24.0	0.0	
100	QPSK	1	271	22.18					
100	QPSK	135	0	21.98			23.0	1.0	
100	QPSK	135	69	22.19			24.0	0.0	
100	QPSK	135	138	21.98			23.0	1.0	
100	QPSK	270	0	22.10			23.0	1.0	
100	16QAM	1	1	21.98			23.0	1.0	
100	64QAM	1	1	20.51			21.5	2.5	
100	256QAM	1	1	18.42			19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	120	21.84	21.86	21.88	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.85	21.92	21.98	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	21.78	21.82	21.89	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.77	21.83	21.88	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.82	21.97	21.96	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.72	21.95	21.90	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	21.66	21.85	21.93	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.85	21.84	22.00	24.0	0.0	



n41 ANT 1 UL MIMO PC3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.23	20.27	20.34		
100	PI/2 BPSK	1	137	20.34	20.31	20.35	21.0	0.0
100	PI/2 BPSK	1	271	20.31	20.16	20.21		
100	PI/2 BPSK	135	0	20.24	20.27	20.29	21.0	0.0
100	PI/2 BPSK	135	69	20.2	20.17	20.19	21.0	0.0
100	PI/2 BPSK	135	138	20.23	20.22	20.27		
100	PI/2 BPSK	270	0	20.12	20.16	20.14	21.0	0.0
100	QPSK	1	1	20.2	20.11	20.08		
100	QPSK	1	137	20.31	20.43	20.24	21.0	0.0
100	QPSK	1	271	20.21	20.28	20.29		
100	QPSK	135	0	20.3	20.31	20.41		
100	QPSK	135	69	20.37	20.42	20.31	21.0	0.0
100	QPSK	135	138	20.42	20.28	20.29		
100	QPSK	270	0	20.27	20.32	20.25	21.0	0.0
100	16QAM	1	1	20.24	20.23	20.33	21.0	0.0
100	64QAM	1	1	20.3	20.34	20.27	21.0	0.0
100	256QAM	1	1	18.72	18.68	18.77	19.5	1.5
Channel				509200	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	21.0	0.0
90	QPSK	1	120	20.11	20.23	20.29	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	21.0	0.0
80	QPSK	1	109	20.23	20.31	20.35	21.0	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2528	2592.99	2659.98	21.0	0.0
60	QPSK	1	81	20.17	20.23	20.34	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	21.0	0.0
50	QPSK	1	67	20.12	20.27	20.32	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	21.0	0.0
40	QPSK	1	53	20.03	20.19	20.23	21.0	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	21.0	0.0
30	QPSK	1	39	19.98	20.02	20.16	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	21.0	0.0
20	QPSK	1	26	19.82	20.04	20.12	21.0	0.0

n41 ANT 3 UL MIMO PC3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.70	19.84	19.72		
100	PI/2 BPSK	1	137	19.70	19.74	19.57	21.0	0.0
100	PI/2 BPSK	1	271	19.41	19.51	19.43		
100	PI/2 BPSK	135	0	19.79	19.86	19.91	21.0	0.0
100	PI/2 BPSK	135	69	19.61	19.72	19.76	21.0	0.0
100	PI/2 BPSK	135	138	19.63	19.62	19.80		
100	PI/2 BPSK	270	0	19.70	19.68	19.51	21.0	0.0
100	QPSK	1	1	19.70	19.85	19.75		
100	QPSK	1	137	19.54	19.95	19.69	21.0	0.0
100	QPSK	1	271	19.34	19.44	19.45		
100	QPSK	135	0	19.80	19.72	19.83		
100	QPSK	135	69	19.77	19.87	19.57	21.0	0.0
100	QPSK	135	138	19.48	19.64	19.53		
100	QPSK	270	0	19.59	19.72	19.53	21.0	0.0
100	16QAM	1	1	19.63	19.73	19.64	21.0	0.0
100	64QAM	1	1	19.76	19.83	19.92	21.0	0.0
100	256QAM	1	1	18.56	18.58	18.38	19.5	1.5
Channel				509200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	21.0	0.0
90	QPSK	1	120	19.73	19.69	19.75	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	21.0	0.0
80	QPSK	1	109	19.83	19.72	19.88	21.0	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2528	2592.99	2659.98	21.0	0.0
60	QPSK	1	81	19.74	19.79	19.83	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	21.0	0.0
50	QPSK	1	67	19.82	19.71	19.82	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	21.0	0.0
40	QPSK	1	53	19.59	19.82	19.72	21.0	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	21.0	0.0
30	QPSK	1	39	19.76	19.57	19.69	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	21.0	0.0
20	QPSK	1	26	19.74	19.55	19.73	21.0	0.0



n77 ANT 2 UL MIMO PC3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	19.13	19.19	19.05			
100	PI/2 BPSK	1	137	19.53	19.63	19.46	21.0	0.0	
100	PI/2 BPSK	1	271	20	20.18	20.22			
100	PI/2 BPSK	135	0	19.32	19.47	19.43	21.0	0.0	
100	PI/2 BPSK	135	69	19.64	19.74	19.83	21.0	0.0	
100	PI/2 BPSK	135	138	19.8	20.02	20			
100	PI/2 BPSK	270	0	19.87	19.84	19.82	21.0	0.0	
100	QPSK	1	1	19.24	19.44	19.43			
100	QPSK	1	137	18.87	20.42	19.67	21.0	0.0	
100	QPSK	1	271	20.01	20.2	20.11			
100	QPSK	135	0	19.52	19.49	19.45			
100	QPSK	135	69	19.75	20.08	19.73	21.0	0.0	
100	QPSK	135	138	19.87	20.06	19.81			
100	QPSK	270	0	19.64	19.81	19.69	21.0	0.0	
100	16QAM	1	1	19.61	19.7	19.61	21.0	0.0	
100	64QAM	1	1	19.69	19.71	19.76	21.0	0.0	
100	256QAM	1	1	17.91	17.83	17.71	19.5	1.5	
Channel				648668	650000	662332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3934.98			
90	QPSK	1	120	19.89	19.82	19.79	21.0	0.0	
Channel				648334	650000	662666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3939.99			
80	QPSK	1	109	19.63	19.75	19.83	21.0	0.0	
Channel				648000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	19.8	19.84	19.74	21.0	0.0	
Channel				648668	650000	663332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3949.98			
60	QPSK	1	81	19.81	19.99	19.78	21.0	0.0	
Channel				648334	650000	663666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3954.99			
50	QPSK	1	67	19.81	19.96	19.83	21.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	19.83	19.78	19.93	21.0	0.0	
Channel				647668	650000	664332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3964.98			
30	QPSK	1	39	19.85	19.92	19.83	21.0	0.0	
Channel				647334	650000	664666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3969.99			
20	QPSK	1	26	19.92	19.83	19.69	21.0	0.0	

n77 ANT 4 UL MIMO PC3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	19.26	19.33	19.23			
100	PI/2 BPSK	1	137	19.01	18.93	18.89	21.0	0.0	
100	PI/2 BPSK	1	271	18.78	18.78	18.63			
100	PI/2 BPSK	135	0	19.32	19.25	19.12	21.0	0.0	
100	PI/2 BPSK	135	69	19.08	19.06	19.05	21.0	0.0	
100	PI/2 BPSK	135	138	18.87	18.82	18.74			
100	PI/2 BPSK	270	0	19.15	19.07	18.99	21.0	0.0	
100	QPSK	1	1	19.43	18.87	19.36			
100	QPSK	1	137	18.87	19.57	19.04	21.0	0.0	
100	QPSK	1	271	18.93	18.89	18.82			
100	QPSK	135	0	19.13	19.14	19.09			
100	QPSK	135	69	19.03	19.22	19.07	21.0	0.0	
100	QPSK	135	138	18.75	18.87	18.81			
100	QPSK	270	0	19.12	19.15	19.13	21.0	0.0	
100	16QAM	1	1	18.87	19.02	18.98	21.0	0.0	
100	64QAM	1	1	19.56	19.46	19.53	21.0	0.0	
100	256QAM	1	1	17.48	17.54	17.52	19.5	1.5	
Channel				648668	650000	662332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3934.98			
90	QPSK	1	120	19.12	18.98	19.23	21.0	0.0	
Channel				648334	650000	662666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3939.99			
80	QPSK	1	109	19.08	18.89	18.99	21.0	0.0	
Channel				648000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	18.98	18.78	18.89	21.0	0.0	
Channel				648668	650000	663332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3949.98			
60	QPSK	1	81	18.93	18.84	19.03	21.0	0.0	
Channel				648334	650000	663666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3954.99			
50	QPSK	1	67	19.11	19.06	19.11	21.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	19.24	19.08	19.97	21.0	0.0	
Channel				647668	650000	664332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3964.98			
30	QPSK	1	39	18.98	19.11	19.04	21.0	0.0	
Channel				647334	650000	664666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3969.99			
20	QPSK	1	26	19.32	19.29	19.13	21.0	0.0	



n78 ANT 2 UL MIMO PC3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000						
Frequency (MHz)				3750						
100	PI/2 BPSK	1	1	18.84			21.0	0.0		
100	PI/2 BPSK	1	137	19.17						
100	PI/2 BPSK	1	271	19.10						
100	PI/2 BPSK	135	0	19.01			21.0	0.0		
100	PI/2 BPSK	135	69	19.08			21.0	0.0		
100	PI/2 BPSK	135	138	19.17						
100	PI/2 BPSK	270	0	19.06			21.0	0.0		
100	QPSK	1	1	19.22						
100	QPSK	1	137	19.33			21.0	0.0		
100	QPSK	1	271	19.19						
100	QPSK	135	0	19.95						
100	QPSK	135	69	19.21			21.0	0.0		
100	QPSK	135	138	19.16						
100	QPSK	270	0	19.00			21.0	0.0		
100	16QAM	1	1	19.00			21.0	0.0		
100	64QAM	1	1	19.06			21.0	0.0		
100	256QAM	1	1	17.19			19.5	1.5		
Channel				649668	650000	650332	Tune-up limit	MPR		
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)		
90	QPSK	1	120	18.80	18.89	18.34	21.0	0.0		
Channel				649334	650000	650666	Tune-up limit	MPR		
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)		
80	QPSK	1	109	18.54	18.62	18.73	21.0	0.0		
Channel				649000	650000	651000	Tune-up limit	MPR		
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)		
70	QPSK	1	95	18.43	18.72	18.57	21.0	0.0		
Channel				648668	650000	651332	Tune-up limit	MPR		
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)		
60	QPSK	1	81	18.50	18.72	18.54	21.0	0.0		
Channel				648334	650000	651666	Tune-up limit	MPR		
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)		
50	QPSK	1	67	18.54	18.66	18.45	21.0	0.0		
Channel				648000	650000	652000	Tune-up limit	MPR		
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)		
40	QPSK	1	53	18.55	18.77	18.48	21.0	0.0		
Channel				647668	650000	652332	Tune-up limit	MPR		
Frequency (MHz)				3715.02	3750	3784.98	(dBm)	(dB)		
30	QPSK	1	39	18.60	18.78	18.77	21.0	0.0		
Channel				647334	650000	652666	Tune-up limit	MPR		
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)		
20	QPSK	1	26	18.70	18.78	18.66	21.0	0.0		

n78 ANT 4 UL MIMO PC3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000						
Frequency (MHz)				3750						
100	PI/2 BPSK	1	1	20.06						
100	PI/2 BPSK	1	137	19.86			21.0	0.0		
100	PI/2 BPSK	1	271	19.69						
100	PI/2 BPSK	135	0	20.15			21.0	0.0		
100	PI/2 BPSK	135	69	20.13			21.0	0.0		
100	PI/2 BPSK	135	138	19.84						
100	PI/2 BPSK	270	0	19.98			21.0	0.0		
100	QPSK	1	1	20.29						
100	QPSK	1	137	20.42			21.0	0.0		
100	QPSK	1	271	19.73						
100	QPSK	135	0	20.16						
100	QPSK	135	69	20.28			21.0	0.0		
100	QPSK	135	138	19.86						
100	QPSK	270	0	20.12			21.0	0.0		
100	16QAM	1	1	20.34			21.0	0.0		
100	64QAM	1	1	20.24			21.0	0.0		
100	256QAM	1	1	19.12			19.5	1.5		
Channel				649668	650000	650332	Tune-up limit	MPR		
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)		
90	QPSK	1	120	20.24	20.25	20.07	21.0	0.0		
Channel				649334	650000	650666	Tune-up limit	MPR		
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)		
80	QPSK	1	109	20.22	20.11	19.94	21.0	0.0		
Channel				649000	650000	651000	Tune-up limit	MPR		
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)		
70	QPSK	1	95	19.98	20.29	20.10	21.0	0.0		
Channel				648668	650000	651332	Tune-up limit	MPR		
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)		
60	QPSK	1	81	19.90	20.23	20.02	21.0	0.0		
Channel				648334	650000	651666	Tune-up limit	MPR		
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)		
50	QPSK	1	67	20.01	20.22	20.03	21.0	0.0		
Channel				648000	650000	652000	Tune-up limit	MPR		
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)		
40	QPSK	1	53	20.12	20.35	20.03	21.0	0.0		
Channel				647668	650000	652332	Tune-up limit	MPR		
Frequency (MHz)				3715.02	3750	3784.98	(dBm)	(dB)		
30	QPSK	1	39	20.10	20.28	20.14	21.0	0.0		
Channel				647334	650000	652666	Tune-up limit	MPR		
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)		
20	QPSK	1	26	20.09	20.40	20.13	21.0	0.0		



Reduced Power Mode for Receiver on

n7 ANT3 SA (Head) Receiver on								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	17.99	18.33	18.29		
20	PI/2 BPSK	1	53	18.01	18.35	18.31	19.5	0.0
20	PI/2 BPSK	1	104	18.00	18.34	18.34		
20	PI/2 BPSK	50	0	18.00	18.31	18.31	19.5	0.0
20	PI/2 BPSK	50	28	18.03	18.31	18.30	19.5	0.0
20	PI/2 BPSK	50	56	18.04	18.36	18.31		
20	PI/2 BPSK	100	0	18.02	18.31	18.29	19.5	0.0
20	QPSK	1	1	18.05	18.29	18.31		
20	QPSK	1	53	18.46	18.63	18.52	19.5	0.0
20	QPSK	1	104	18.04	18.27	18.31		
20	QPSK	50	0	18.04	18.32	18.27	19.5	0.0
20	QPSK	50	28	18.39	18.47	18.46	19.5	0.0
20	QPSK	50	56	18.05	18.27	18.24		
20	QPSK	100	0	17.99	18.39	18.29	19.5	0.0
20	16QAM	1	1	18.05	18.27	18.31	19.5	0.0
20	64QAM	1	1	18.00	18.33	18.31	19.5	0.0
20	256QAM	1	1	18.02	18.22	18.29	19.5	0.0
Channel				501900	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	53	18.04	18.22	18.34	19.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	53	18.03	18.22	18.25	19.5	0.0
Channel				500900	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	53	18.01	18.25	18.28	19.5	0.0

n38 ANT3 SA (Head) Receiver on								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	PI/2 BPSK	1	1	17.50	17.57	17.50		
20	PI/2 BPSK	1	26	17.41	17.46	17.38	18.5	0.0
20	PI/2 BPSK	1	49	17.42	17.46	17.34		
20	PI/2 BPSK	25	0	17.45	17.56	17.49		
20	PI/2 BPSK	25	13	17.37	17.49	17.42	18.5	0.0
20	PI/2 BPSK	25	26	17.41	17.44	17.40		
20	PI/2 BPSK	50	0	17.43	17.53	17.41	18.5	0.0
20	QPSK	1	1	17.53	17.66	17.58		
20	QPSK	1	26	17.45	17.51	17.47	18.5	0.0
20	QPSK	1	49	17.43	17.46	17.37		
20	QPSK	25	0	17.49	17.53	17.44		
20	QPSK	25	13	17.45	17.52	17.41	18.5	0.0
20	QPSK	25	26	17.42	17.50	17.40		
20	QPSK	50	0	17.52	17.56	17.49	18.5	0.0
20	16QAM	1	1	17.60	17.62	17.56	18.5	0.0
20	64QAM	1	1	17.58	17.60	17.51	18.5	0.0
20	256QAM	1	1	17.47	17.51	17.42	18.5	0.0



n41 ANT3 SA&UL MIMO PC2/PC3 (Head) Receiver on

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	17.16	17.25	17.13	18.5	0.0
100	PI/2 BPSK	1	137	17.05	17.12	17.05		
100	PI/2 BPSK	1	271	16.86	16.95	16.83		
100	PI/2 BPSK	135	0	17.25	17.34	17.25	18.5	0.0
100	PI/2 BPSK	135	69	17.07	17.14	17.07	18.5	0.0
100	PI/2 BPSK	135	138	16.85	16.98	16.92	18.5	0.0
100	PI/2 BPSK	270	0	17.08	17.13	17.08		
100	QPSK	1	1	17.27	17.35	17.26		
100	QPSK	1	137	17.43	17.58	17.49	18.5	0.0
100	QPSK	1	271	16.97	17.01	16.95		
100	QPSK	135	0	17.21	17.30	17.19		
100	QPSK	135	69	17.11	17.36	17.16	18.5	0.0
100	QPSK	135	138	16.94	17.02	16.94		
100	QPSK	270	0	17.11	17.18	17.10		
100	16QAM	1	1	17.24	17.33	17.21	18.5	0.0
100	64QAM	1	1	17.26	17.34	17.26	18.5	0.0
100	256QAM	1	1	17.01	17.04	16.92	18.5	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	18.5	0.0
90	QPSK	1	137	17.50	17.53	17.48	18.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	18.5	0.0
80	QPSK	1	137	17.52	17.50	17.50	18.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	18.5	0.0
70	QPSK	1	137	17.52	17.48	17.50	18.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98	18.5	0.0
60	QPSK	1	137	17.51	17.52	17.51	18.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	18.5	0.0
50	QPSK	1	137	17.50	17.51	17.49	18.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	18.5	0.0
40	QPSK	1	137	17.50	17.50	17.52	18.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	18.5	0.0
30	QPSK	1	137	17.49	17.47	17.48	18.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	18.5	0.0
20	QPSK	1	137	17.45	17.50	17.44	18.5	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48	18.5	0.0
15	QPSK	1	137	17.51	17.52	17.46	18.5	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	18.5	0.0
10	QPSK	1	137	17.44	17.51	17.37	18.5	0.0

n41 ANT3 NSA (Head) Receiver on

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	14.17	14.13	14.16	16.0	0.0
100	PI/2 BPSK	1	137	14.09	14.11	14.09		
100	PI/2 BPSK	1	271	13.64	13.69	13.66		
100	PI/2 BPSK	135	0	14.08	14.10	14.12	16.0	0.0
100	PI/2 BPSK	135	69	14.12	14.17	14.15	16.0	0.0
100	PI/2 BPSK	135	138	13.70	13.73	13.71	16.0	0.0
100	PI/2 BPSK	270	0	14.12	14.10	14.09		
100	QPSK	1	1	14.19	14.13	14.16		
100	QPSK	1	137	13.82	14.31	14.26	16.0	0.0
100	QPSK	1	271	13.63	13.61	13.65		
100	QPSK	135	0	14.21	14.15	14.11		
100	QPSK	135	69	14.06	14.24	14.07	16.0	0.0
100	QPSK	135	138	13.79	13.78	13.78		
100	QPSK	270	0	14.11	14.12	14.12		
100	16QAM	1	1	13.96	13.97	14.00	16.0	0.0
100	64QAM	1	1	13.80	13.81	13.83	16.0	0.0
100	256QAM	1	1	13.88	13.90	13.97	16.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	16.0	0.0
90	QPSK	1	137	13.81	14.28	14.24	16.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	16.0	0.0
80	QPSK	1	137	13.78	14.29	14.23	16.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	16.0	0.0
70	QPSK	1	137	13.78	14.28	14.24	16.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98	16.0	0.0
60	QPSK	1	137	13.78	14.27	14.23	16.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	16.0	0.0
50	QPSK	1	137	13.80	14.26	14.24	16.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	16.0	0.0
40	QPSK	1	137	13.80	14.29	14.24	16.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	16.0	0.0
30	QPSK	1	137	13.80	14.29	14.23	16.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	16.0	0.0
20	QPSK	1	137	13.77	14.28	14.23	16.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48	16.0	0.0
15	QPSK	1	137	13.77	14.26	14.24	16.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	16.0	0.0
10	QPSK	1	137	13.77	14.28	14.21	16.0	0.0



n77 ANT 4 SA&UL MIMO PC2/PC3 (Head) Receiver									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	14.54	15.55	14.49	17.0	0.0	
100	PI/2 BPSK	1	137	14.32	15.50	14.56			
100	PI/2 BPSK	1	271	14.30	15.52	14.51			
100	PI/2 BPSK	135	0	14.48	15.51	14.71	17.0	0.0	
100	PI/2 BPSK	135	69	14.32	15.46	14.66	17.0	0.0	
100	PI/2 BPSK	135	138	14.39	15.49	14.47	17.0	0.0	
100	PI/2 BPSK	270	0	14.41	15.48	14.54			
100	QPSK	1	1	14.44	15.51	14.63			
100	QPSK	1	137	14.39	15.61	14.47	17.0	0.0	
100	QPSK	1	271	14.37	15.54	14.65			
100	QPSK	135	0	14.41	15.55	14.54			
100	QPSK	135	69	14.55	15.56	14.51	17.0	0.0	
100	QPSK	135	138	14.33	15.55	14.62			
100	QPSK	270	0	14.30	15.47	14.53			
100	16QAM	1	1	14.42	15.48	14.51	17.0	0.0	
100	64QAM	1	1	14.52	15.55	14.51	17.0	0.0	
100	256QAM	1	1	14.30	15.54	14.55	17.0	0.0	
Channel				649688	656000	662332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3934.98			
90	QPSK	1	137	14.44	15.45	14.46	17.0	0.0	
Channel				649334	656000	662666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3939.99			
80	QPSK	1	137	14.37	15.53	14.50	17.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	137	14.43	15.56	14.55	17.0	0.0	
Channel				648688	656000	663332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3949.98			
60	QPSK	1	137	14.36	15.53	14.48	17.0	0.0	
Channel				648334	656000	663666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3954.99			
50	QPSK	1	137	14.46	15.57	14.56	17.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	137	14.46	15.55	14.71	17.0	0.0	
Channel				647688	656000	664332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3964.98			
30	QPSK	1	137	14.54	15.51	14.52	17.0	0.0	
Channel				647334	656000	664666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3969.99			
20	QPSK	1	137	14.38	15.51	14.61	17.0	0.0	

n78 ANT 4 SA&NSA&UL MIMO PC2/PC3 (Head) Receiver									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				650000	650000	650000			
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1		15.65		17.0	0.0	
100	PI/2 BPSK	1	137		15.45				
100	PI/2 BPSK	1	271		15.37				
100	PI/2 BPSK	135	0		15.58		17.0	0.0	
100	PI/2 BPSK	135	69		15.40		17.0	0.0	
100	PI/2 BPSK	135	138		15.22		17.0	0.0	
100	PI/2 BPSK	270	0		15.42				
100	QPSK	1	1		15.51				
100	QPSK	1	137		15.69		17.0	0.0	
100	QPSK	1	271		15.02				
100	QPSK	135	0		15.48				
100	QPSK	135	69		15.64		17.0	0.0	
100	QPSK	135	138		15.29				
100	QPSK	270	0		15.37				
100	16QAM	1	1		15.45		17.0	0.0	
100	64QAM	1	1		15.58		17.0	0.0	
100	256QAM	1	1		15.63		17.0	0.0	
Channel				649688	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	137	15.59	15.63	15.57	17.0	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	137	15.57	15.60	15.60	17.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	137	15.59	15.61	15.59	17.0	0.0	
Channel				648688	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3769.98			
60	QPSK	1	137	15.58	15.64	15.56	17.0	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	137	15.60	15.64	15.58	17.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	137	15.59	15.61	15.56	17.0	0.0	
Channel				647688	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3784.98			
30	QPSK	1	137	15.61	15.63	15.57	17.0	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
20	QPSK	1	137	15.60	15.60	15.59	17.0	0.0	



Reduced Power Mode for Body-worn/Handheld

n41 ANT 1 NSA (Bodyworn/Handheld)							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				569502	518598	528000	
Frequency (MHz)				2548.01	2592.99	2640	
100	PI2 BPSK	1	1	20.63	20.84	20.71	
100	PI2 BPSK	1	137	20.59	20.64	20.52	21.0
100	PI2 BPSK	1	271	20.57	20.64	20.49	
100	PI2 BPSK	135	0	20.61	20.55	20.49	21.0
100	PI2 BPSK	135	69	20.47	20.61	20.46	21.0
100	PI2 BPSK	135	135	20.53	20.77	20.54	21.0
100	PI2 BPSK	270	0	20.55	20.60	20.51	
100	QPSK	1	1	20.55	20.73	20.50	
100	QPSK	1	137	20.73	20.86	20.72	21.0
100	QPSK	1	271	20.72	20.61	20.46	
100	QPSK	135	0	20.61	20.77	20.70	
100	QPSK	135	69	20.55	20.78	20.54	21.0
100	QPSK	135	135	20.61	20.60	20.56	
100	QPSK	270	0	20.53	20.78	20.64	21.0
100	16QAM	1	1	20.53	20.63	20.56	21.0
100	64QAM	1	1	20.66	20.63	20.52	21.0
100	256QAM	1	1	18.14	19.38	19.10	1.5
Channel				525500	518598	529598	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	137	20.57	20.65	20.56	21.0
Channel				507204	518598	529998	
Frequency (MHz)				2638.02	2692.99	2649.99	
80	QPSK	1	137	20.58	20.63	20.56	21.0
Channel				505200	518598	531998	
Frequency (MHz)				2526	2592.99	2659.98	
90	QPSK	1	137	20.63	20.84	20.69	21.0
Channel				562204	518598	532998	
Frequency (MHz)				2621.02	2692.99	2664.99	
50	QPSK	1	137	20.60	20.84	20.57	21.0
Channel				520202	518598	530200	
Frequency (MHz)				2516.01	2592.99	2679	
40	QPSK	1	137	20.58	20.64	20.59	21.0
Channel				502200	518598	534998	
Frequency (MHz)				2511	2592.99	2624.98	
30	QPSK	1	137	20.57	20.84	20.57	21.0
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	137	20.56	20.66	20.56	21.0

n78 ANT 2 NSA (Bodyworn/Handheld)							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel					3750		
Frequency (MHz)					3750		
100	PI2 BPSK	1	1		21.22		
100	PI2 BPSK	1	137		21.18		23.0
100	PI2 BPSK	1	271		21.34		
100	PI2 BPSK	135	0		21.25		23.0
100	PI2 BPSK	135	69		21.19		23.0
100	PI2 BPSK	135	135		21.27		23.0
100	PI2 BPSK	270	0		21.07		
100	DPSK	1	1		21.84		
100	DPSK	1	137		21.26		23.0
100	DPSK	1	271		21.13		
100	DPSK	135	0		21.02		
100	DPSK	135	69		21.19		23.0
100	DPSK	135	135		21.13		23.0
100	DPSK	270	0		21.08		23.0
100	16QAM	1	1		21.12		23.0
100	64QAM	1	1		21.01		23.0
100	256QAM	1	1		18.54		1.5
Channel				648668	650000	650332	
Frequency (MHz)				3745.02	3750	3754.98	
90	QPSK	1	137		20.86	21.12	20.93
Channel				648334	650000	650666	
Frequency (MHz)				3740.01	3750	3754.98	
80	QPSK	1	137		21.12	21.22	20.99
Channel				648000	650000	651000	
Frequency (MHz)				3735	3750	3765	
70	QPSK	1	137		21.03	21.06	21.10
Channel				648668	650000	651332	
Frequency (MHz)				3740.02	3750	3749.98	
60	QPSK	1	137		21.03	21.07	20.89
Channel				648334	650000	651666	
Frequency (MHz)				3735.01	3750	3744.99	
50	QPSK	1	137		21.09	21.16	20.89
Channel				648000	650000	652000	
Frequency (MHz)				3730	3750	3760	
40	QPSK	1	137		20.99	21.08	20.94
Channel				647668	650000	652332	
Frequency (MHz)				3715.02	3750	3764.98	
30	QPSK	1	137		20.98	21.14	20.99
Channel				647334	650000	652666	
Frequency (MHz)				3710.01	3750	3769.99	
20	QPSK	1	137		21.07	21.15	20.84



Reduced Power Mode for Hotspot on

n2 ANT 2 NSA (Hotspot)							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. (MHz)	Power Mid Ch. F.Freq. (MHz)	Power High Ch. F.Freq. (MHz)	Power (dBm)
Channel							
Frequency (MHz)							
20	PUSC BPSK	1	1	20.62	20.74	20.87	22.0
20	PUSC BPSK	1	53	20.62	20.62	20.52	22.0
20	PUSC BPSK	1	104	20.58	20.71	20.82	22.0
20	PUSC BPSK	50	5	20.61	20.66	20.63	22.0
20	PUSC BPSK	50	28	20.68	20.66	20.71	22.0
20	PUSC BPSK	50	56	20.65	20.67	20.61	22.0
20	PUSC BPSK	100	4	20.58	20.65	20.55	22.0
20	QPSK	1	1	20.69	20.72	20.84	22.0
20	QPSK	1	53	20.72	20.62	20.70	22.0
20	QPSK	1	104	20.51	20.51	20.52	22.0
20	QPSK	50	5	20.61	20.73	20.73	22.0
20	QPSK	50	28	20.63	20.79	20.72	22.0
20	QPSK	50	56	20.28	20.38	20.24	22.0
20	QPSK	100	4	20.38	20.47	20.35	22.0
20	16QAM	1	53	20.30	20.44	20.43	22.0
20	16QAM	1	53	19.81	19.96	19.88	21.5
20	256QAM	1	53	19.89	19.11	19.15	21.5
Channel							
Frequency (MHz)							
15	PUSC BPSK	1	53	20.73	20.76	20.71	22.0
Channel							
Frequency (MHz)							
10	PUSC BPSK	1	53	20.14	20.09	20.07	22.0
Channel							
Frequency (MHz)							
5	PUSC BPSK	1	53	20.09	20.76	20.75	22.0

n25 ANT 2 NSA (Hotspot)							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. (MHz)	Power Mid Ch. F.Freq. (MHz)	Power High Ch. F.Freq. (MHz)	Power (dBm)
Channel							
Frequency (MHz)							
20	PUSC BPSK	1	1	20.62	20.63	20.62	22.0
20	PUSC BPSK	1	53	20.62	20.64	20.77	22.0
20	PUSC BPSK	1	104	20.77	20.81	20.74	22.0
20	PUSC BPSK	50	5	20.72	20.76	20.76	22.0
20	PUSC BPSK	50	28	20.78	20.81	20.76	22.0
20	PUSC BPSK	50	56	20.65	20.74	20.68	22.0
20	PUSC BPSK	100	4	20.72	20.79	20.67	22.0
20	QPSK	1	1	20.62	20.62	20.63	22.0
20	QPSK	1	53	20.63	20.65	20.70	22.0
20	QPSK	1	104	20.64	20.71	20.64	22.0
20	QPSK	50	5	20.61	20.61	20.61	22.0
20	QPSK	50	28	20.70	20.64	20.78	22.0
20	QPSK	50	56	20.40	20.51	20.42	22.0
20	QPSK	100	4	20.42	20.50	20.47	22.0
20	16QAM	1	1	20.52	20.57	20.50	22.0
20	16QAM	1	1	19.81	19.85	19.86	21.5
20	256QAM	1	1	19.19	19.29	19.18	21.5
Channel							
Frequency (MHz)							
15	PUSC BPSK	1	53	20.76	20.81	20.80	22.0
Channel							
Frequency (MHz)							
10	PUSC BPSK	1	53	20.72	20.11	20.10	22.0
Channel							
Frequency (MHz)							
5	PUSC BPSK	1	53	20.75	20.81	20.76	22.0



n41 ANT 1 SA & UL MIMO PC2 (Hotspot)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch / Freq.	Power Min Ch / Freq.	Power High Ch / Freq.	Time-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	21.82	21.59	21.44			
100	PI2 BPSK	1	137	21.47	21.21	21.42	22.0	0.0	
100	PI2 BPSK	1	271	21.38	21.81	21.94			
100	PI2 BPSK	138	0	21.44	21.49	21.51	22.0	0.0	
100	PI2 BPSK	138	66	21.84	21.59	21.42	22.0	0.0	
100	PI2 BPSK	138	138	21.43	21.46	21.57	22.0	0.0	
100	QPSK	1	1	21.83	21.52	21.62			
100	QPSK	1	137	21.83	21.73	21.84	22.0	0.0	
100	QPSK	1	271	21.43	21.73	21.42			
100	QPSK	138	0	21.83	21.68	21.53	22.0	0.0	
100	QPSK	138	66	21.84	21.68	21.47	22.0	0.0	
100	QPSK	138	138	21.81	21.52	21.80	22.0	0.0	
100	16QAM	1	1	21.78	21.59	21.11	21.5	1.5	
100	16QAM	1	1	19.08	19.28	19.12	19.5	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	137	21.30	21.47	21.36	22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	137	20.98	20.99	20.99	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	137	20.98	20.99	20.99	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	137	20.98	20.99	20.99	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	137	21.38	21.45	21.36	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	137	21.30	21.45	21.38	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	137	21.30	21.44	21.38	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	137	21.30	21.43	21.35	22.0	0.0	

n41 ANT 1 NSA (Hotspot)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch / Freq.	Power Min Ch / Freq.	Power High Ch / Freq.	Time-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.48	18.80	18.32			
100	PI2 BPSK	1	133	18.16	18.24	17.98	19.5	0.0	
100	PI2 BPSK	1	271	17.98	18.09	17.77			
100	PI2 BPSK	138	0	18.36	18.47	18.29	19.5	0.0	
100	PI2 BPSK	138	66	18.19	18.32	18.01	19.5	0.0	
100	PI2 BPSK	138	138	18.07	18.18	17.88	19.5	0.0	
100	QPSK	1	1	18.47	18.59	18.29			
100	QPSK	1	133	18.35	18.68	18.26	19.5	0.0	
100	QPSK	1	271	18.15	18.24	17.93			
100	QPSK	138	0	18.36	18.46	18.28	19.5	0.0	
100	QPSK	138	66	18.30	18.43	18.13	19.5	0.0	
100	QPSK	138	138	18.14	18.23	17.92	19.5	0.0	
100	QPSK	270	0	18.35	18.42	18.14	19.5	0.0	
100	16QAM	1	1	18.39	18.50	18.20	19.5	0.0	
100	16QAM	1	1	18.44	18.54	18.25	19.5	0.0	
100	16QAM	1	1	18.32	18.40	18.09	19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	133	18.54	18.83	18.33	19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	133	18.49	18.59	18.32	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	133	18.49	18.59	18.32	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	133	18.54	18.62	18.33	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	133	18.53	18.64	18.31	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	133	18.53	18.64	18.32	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	133	18.50	18.60	18.33	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	133	18.50	18.63	18.32	19.5	0.0	

n41 ANT 3 NSA (Hotspot)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch / Freq.	Power Min Ch / Freq.	Power High Ch / Freq.	Time-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.67	19.79	19.71			
100	PI2 BPSK	1	137	19.62	19.72	19.70	21.0	0.0	
100	PI2 BPSK	1	271	19.20	19.42	19.27			
100	PI2 BPSK	138	0	19.81	19.79	19.80	21.0	0.0	
100	PI2 BPSK	138	66	19.40	19.76	19.53	21.0	0.0	
100	PI2 BPSK	138	138	19.40	19.47	19.46	21.0	0.0	
100	QPSK	1	1	19.64	19.70	19.54			
100	QPSK	1	137	19.81	20.13	19.93	21.0	0.0	
100	QPSK	1	271	19.40	19.52	19.24			
100	QPSK	138	0	19.81	19.81	19.81	21.0	0.0	
100	QPSK	138	66	19.70	20.11	19.88	21.0	0.0	
100	QPSK	138	138	19.57	19.61	19.40	21.0	0.0	
100	QPSK	270	0	19.74	19.77	19.37	21.0	0.0	
100	16QAM	1	1	19.43	19.61	19.41	21.0	0.0	
100	16QAM	1	1	19.83	19.95	19.81	21.0	0.0	
100	16QAM	1	1	19.10	19.30	19.32	21.0	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	137	19.70	19.74	19.64	21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	137	19.48	19.67	19.59	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	137	19.48	19.67	19.59	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	137	19.48	19.67	19.59	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	137	19.51	19.64	19.46	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	137	19.50	19.71	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	137	19.50	19.69	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	137	19.50	19.42	19.52	21.0	0.0	



n77 ANT 2 SA& UL MIMO PC2 (Hotspot)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. (dBm)	Power Mid Ch. F.Freq. (dBm)	Power High Ch. F.Freq. (dBm)	Power Rgt Ch. F.Freq. (dBm)	Power Lft Ch. F.Freq. (dBm)	MPR (dB)	
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	20.71	21.65	20.69			22.5	0.0
100	PI2 BPSK	1	137	20.66	21.62	20.67			22.5	0.0
100	PI2 BPSK	1	273	20.67	21.74	20.69			22.5	0.0
100	PI2 BPSK	135	6	20.66	21.62	20.71			22.5	0.0
100	PI2 BPSK	135	66	20.67	21.71	20.71			22.5	0.0
100	PI2 BPSK	135	139	20.68	21.67	20.70			22.5	0.0
100	PI2 BPSK	274	4	20.68	21.70	20.70			22.5	0.0
100	QPSK	1	1	20.83	21.79	20.76			22.5	0.0
100	QPSK	1	137	20.80	21.86	20.78			22.5	0.0
100	QPSK	1	273	20.81	21.83	20.82			22.5	0.0
100	QPSK	135	6	20.81	21.84	20.81			22.5	0.0
100	QPSK	135	66	20.83	21.89	20.80			22.5	0.0
100	QPSK	135	139	20.77	21.82	20.84			22.5	0.0
100	QPSK	274	4	20.77	21.86	20.82			22.5	0.0
100	16QAM	1	1	20.97	21.74	20.85			22.5	0.0
100	16QAM	1	137	19.70	20.93	19.80			21.5	1.0
100	256QAM	1	1	18.84	19.74	19.13			19.5	3.0
Channel										
Frequency (MHz)										
90	QPSK	1	137	21.18	21.83	20.83			22.5	0.0
Channel										
Frequency (MHz)										
80	QPSK	1	137	21.07	21.80	20.99			22.5	0.0
Channel										
Frequency (MHz)										
70	QPSK	1	137	20.77	21.83	20.76			22.5	0.0
Channel										
Frequency (MHz)										
60	QPSK	1	137	20.78	21.84	20.80			22.5	0.0
Channel										
Frequency (MHz)										
50	QPSK	1	137	20.77	21.84	20.80			22.5	0.0
Channel										
Frequency (MHz)										
40	QPSK	1	137	20.76	21.84	20.84			22.5	0.0
Channel										
Frequency (MHz)										
30	QPSK	1	137	20.77	21.80	20.80			22.5	0.0
Channel										
Frequency (MHz)										
20	QPSK	1	137	20.78	21.79	20.80			22.5	0.0

n77 ANT 4 SA& UL MIMO PC2&PC3 (Hotspot)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. (dBm)	Power Mid Ch. F.Freq. (dBm)	Power High Ch. F.Freq. (dBm)	Power Rgt Ch. F.Freq. (dBm)	Power Lft Ch. F.Freq. (dBm)	MPR (dB)	
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	18.81	19.47	18.40			20.5	0.0
100	PI2 BPSK	1	137	18.81	19.47	18.40			20.5	0.0
100	PI2 BPSK	1	273	18.47	19.32	18.40			20.5	0.0
100	PI2 BPSK	135	6	18.80	19.47	18.40			20.5	0.0
100	PI2 BPSK	135	66	18.89	19.32	18.40			20.5	0.0
100	PI2 BPSK	135	139	18.47	19.32	18.41			20.5	0.0
100	PI2 BPSK	274	4	18.39	19.32	18.41			20.5	0.0
100	QPSK	1	1	18.51	19.48	18.40			20.5	0.0
100	QPSK	1	137	18.78	19.53	18.43			20.5	0.0
100	QPSK	1	273	18.33	19.43	18.50			20.5	0.0
100	QPSK	135	6	18.46	19.46	18.71			20.5	0.0
100	QPSK	135	66	18.51	19.46	18.71			20.5	0.0
100	QPSK	135	139	18.43	19.26	18.67			20.5	0.0
100	QPSK	274	4	18.62	19.26	18.60			20.5	0.0
100	16QAM	1	1	18.52	19.28	18.60			20.5	0.0
100	16QAM	1	137	18.34	19.14	18.61			20.5	0.0
100	256QAM	1	1	17.43	18.20	17.65			19.5	1.0
Channel										
Frequency (MHz)										
90	QPSK	1	137	18.74	19.49	18.72			20.5	0.0
Channel										
Frequency (MHz)										
80	QPSK	1	137	18.63	19.46	18.70			20.5	0.0
Channel										
Frequency (MHz)										
70	QPSK	1	137	18.36	19.47	18.50			20.5	0.0
Channel										
Frequency (MHz)										
60	QPSK	1	137	18.37	19.46	18.57			20.5	0.0
Channel										
Frequency (MHz)										
50	QPSK	1	137	18.76	19.30	18.72			20.5	0.0
Channel										
Frequency (MHz)										
40	QPSK	1	137	18.60	19.42	18.60			20.5	0.0
Channel										
Frequency (MHz)										
30	QPSK	1	137	18.74	19.47	18.71			20.5	0.0
Channel										
Frequency (MHz)										
20	QPSK	1	137	18.70	19.26	18.60			20.5	0.0



n78 ANT 2 SA&L MIMO PC2 (Hotspot)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch./Frac.	Power Min Ch./Frac.	Power Max Ch./Frac.	Time-up Int (s)	MPR (dB)	
Channel									
100	PI2-BPSK	1	1	21.11		21.11	22.5	0.0	
100	PI2-BPSK	1	137	21.16		21.16	22.5	0.0	
100	PI2-BPSK	1	271	21.22		21.22	22.5	0.0	
100	PI2-BPSK	135	0	21.04		21.04	22.5	0.0	
100	PI2-BPSK	135	66	21.04		21.04	22.5	0.0	
100	PI2-BPSK	135	135	21.04		21.04	22.5	0.0	
100	QPSK	1	1	21.05		21.05	22.5	0.0	
100	QPSK	1	137	21.20		21.20	22.5	0.0	
100	QPSK	1	271	21.26		21.26	22.5	0.0	
100	QPSK	135	0	21.05		21.05	22.5	0.0	
100	QPSK	135	66	21.05		21.05	22.5	0.0	
100	QPSK	135	135	21.05		21.05	22.5	0.0	
100	16QAM	1	1	21.14		21.14	22.5	0.0	
100	16QAM	1	137	21.23		21.23	22.5	0.0	
100	16QAM	1	271	21.29		21.29	22.5	0.0	
100	256QAM	1	1	21.13		21.13	22.5	0.0	
100	256QAM	1	137	21.23		21.23	22.5	0.0	
100	256QAM	1	271	21.29		21.29	22.5	0.0	
100	256QAM	135	0	21.05		21.05	22.5	0.0	
100	256QAM	135	66	21.05		21.05	22.5	0.0	
100	256QAM	135	135	21.05		21.05	22.5	0.0	
100	256QAM	270	0	21.05		21.05	22.5	0.0	
100	256QAM	270	66	21.05		21.05	22.5	0.0	
100	256QAM	270	135	21.05		21.05	22.5	0.0	
100	256QAM	540	0	21.05		21.05	22.5	0.0	
100	256QAM	540	66	21.05		21.05	22.5	0.0	
100	256QAM	540	135	21.05		21.05	22.5	0.0	
100	256QAM	1080	0	21.05		21.05	22.5	0.0	
100	256QAM	1080	66	21.05		21.05	22.5	0.0	
100	256QAM	1080	135	21.05		21.05	22.5	0.0	
100	256QAM	2160	0	21.05		21.05	22.5	0.0	
100	256QAM	2160	66	21.05		21.05	22.5	0.0	
100	256QAM	2160	135	21.05		21.05	22.5	0.0	
100	256QAM	4320	0	21.05		21.05	22.5	0.0	
100	256QAM	4320	66	21.05		21.05	22.5	0.0	
100	256QAM	4320	135	21.05		21.05	22.5	0.0	
100	256QAM	8640	0	21.05		21.05	22.5	0.0	
100	256QAM	8640	66	21.05		21.05	22.5	0.0	
100	256QAM	8640	135	21.05		21.05	22.5	0.0	
100	256QAM	17280	0	21.05		21.05	22.5	0.0	
100	256QAM	17280	66	21.05		21.05	22.5	0.0	
100	256QAM	17280	135	21.05		21.05	22.5	0.0	
100	256QAM	34560	0	21.05		21.05	22.5	0.0	
100	256QAM	34560	66	21.05		21.05	22.5	0.0	
100	256QAM	34560	135	21.05		21.05	22.5	0.0	
100	256QAM	69120	0	21.05		21.05	22.5	0.0	
100	256QAM	69120	66	21.05		21.05	22.5	0.0	
100	256QAM	69120	135	21.05		21.05	22.5	0.0	
100	256QAM	138240	0	21.05		21.05	22.5	0.0	
100	256QAM	138240	66	21.05		21.05	22.5	0.0	
100	256QAM	138240	135	21.05		21.05	22.5	0.0	
100	256QAM	276480	0	21.05		21.05	22.5	0.0	
100	256QAM	276480	66	21.05		21.05	22.5	0.0	
100	256QAM	276480	135	21.05		21.05	22.5	0.0	
100	256QAM	552960	0	21.05		21.05	22.5	0.0	
100	256QAM	552960	66	21.05		21.05	22.5	0.0	
100	256QAM	552960	135	21.05		21.05	22.5	0.0	
100	256QAM	1105920	0	21.05		21.05	22.5	0.0	
100	256QAM	1105920	66	21.05		21.05	22.5	0.0	
100	256QAM	1105920	135	21.05		21.05	22.5	0.0	
100	256QAM	2211840	0	21.05		21.05	22.5	0.0	
100	256QAM	2211840	66	21.05		21.05	22.5	0.0	
100	256QAM	2211840	135	21.05		21.05	22.5	0.0	
100	256QAM	4423680	0	21.05		21.05	22.5	0.0	
100	256QAM	4423680	66	21.05		21.05	22.5	0.0	
100	256QAM	4423680	135	21.05		21.05	22.5	0.0	
100	256QAM	8847360	0	21.05		21.05	22.5	0.0	
100	256QAM	8847360	66	21.05		21.05	22.5	0.0	
100	256QAM	8847360	135	21.05		21.05	22.5	0.0	
100	256QAM	17694720	0	21.05		21.05	22.5	0.0	
100	256QAM	17694720	66	21.05		21.05	22.5	0.0	
100	256QAM	17694720	135	21.05		21.05	22.5	0.0	
100	256QAM	35389440	0	21.05		21.05	22.5	0.0	
100	256QAM	35389440	66	21.05		21.05	22.5	0.0	
100	256QAM	35389440	135	21.05		21.05	22.5	0.0	
100	256QAM	70778880	0	21.05		21.05	22.5	0.0	
100	256QAM	70778880	66	21.05		21.05	22.5	0.0	
100	256QAM	70778880	135	21.05		21.05	22.5	0.0	
100	256QAM	141557760	0	21.05		21.05	22.5	0.0	
100	256QAM	141557760	66	21.05		21.05	22.5	0.0	
100	256QAM	141557760	135	21.05		21.05	22.5	0.0	
100	256QAM	283115520	0	21.05		21.05	22.5	0.0	
100	256QAM	283115520	66	21.05		21.05	22.5	0.0	
100	256QAM	283115520	135	21.05		21.05	22.5	0.0	
100	256QAM	566231040	0	21.05		21.05	22.5	0.0	
100	256QAM	566231040	66	21.05		21.05	22.5	0.0	
100	256QAM	566231040	135	21.05		21.05	22.5	0.0	
100	256QAM	1132462080	0	21.05		21.05	22.5	0.0	
100	256QAM	1132462080	66	21.05		21.05	22.5	0.0	
100	256QAM	1132462080	135	21.05		21.05	22.5	0.0	
100	256QAM	2264924160	0	21.05		21.05	22.5	0.0	
100	256QAM	2264924160	66	21.05		21.05	22.5	0.0	
100	256QAM	2264924160	135	21.05		21.05	22.5	0.0	
100	256QAM	4529848320	0	21.05		21.05	22.5	0.0	
100	256QAM	4529848320	66	21.05		21.05	22.5	0.0	
100	256QAM	4529848320	135	21.05		21.05	22.5	0.0	
100	256QAM	9059696640	0	21.05		21.05	22.5	0.0	
100	256QAM	9059696640	66	21.05		21.05	22.5	0.0	
100	256QAM	9059696640	135	21.05		21.05	22.5	0.0	
100	256QAM	18119393280	0	21.05		21.05	22.5	0.0	
100	256QAM	18119393280	66	21.05		21.05	22.5	0.0	
100	256QAM	18119393280	135	21.05		21.05	22.5	0.0	
100	256QAM	36238786560	0	21.05		21.05	22.5	0.0	
100	256QAM	36238786560	66	21.05		21.05	22.5	0.0	
100	256QAM	36238786560	135	21.05		21.05	22.5	0.0	
100	256QAM	72477573120	0	21.05		21.05	22.5	0.0	
100	256QAM	72477573120	66	21.05		21.05	22.5	0.0	
100	256QAM	72477573120	135	21.05		21.05	22.5	0.0	
100	256QAM	144955146240	0	21.05		21.05	22.5	0.0	
100	256QAM	144955146240	66	21.05		21.05	22.5	0.0	
100	256QAM	144955146240	135	21.05		21.05	22.5	0.0	
100	256QAM	289910292480	0	21.05		21.05	22.5	0.0	
100	256QAM	289910292480	66	21.05		21.05	22.5	0.0	
100	256QAM	289910292480	135	21.05		21.05	22.5	0.0	
100	256QAM	579820584960	0	21.05		21.05	22.5	0.0	
100	256QAM	579820584960	66	21.05		21.05	22.5	0.0	
100	256QAM	579820584960	135	21.05		21.05	22.5	0.0	
100	256QAM	1159641169920	0	21.05		21.05	22.5	0.0	
100	256QAM	1159641169920	66	21.05		21.05	22.5	0.0	
100	256QAM	1159641169920	135	21.05		21.05	22.5	0.0	
100	256QAM	2319282339840	0	21.05		21.05	22.5	0.0	
100	256QAM	2319282339840	66	21.05		21.05	22.5	0.0	
100	256QAM	2319282339840	135	21.05		21.05	22.		



WLAN/Bluetooth Power

Table with columns: Mode, Channel, Frequency (MHz), Average Power (dBm), Time-Up Limit, and various test results for 2.4GHz WLAN. Includes sub-headers for Ant 6, Ant 6, Ant 7, and Ant 6+7.

Table with columns: Mode, Channel, Frequency (MHz), Average Power (dBm), Time-Up Limit, and various test results for 5GHz WLAN. Includes sub-headers for Ant 6, Ant 6, Ant 7, Ant 7, Ant 7, and Ant 6+7.

Table with columns: Mode, Channel, Frequency (MHz), Average Power (dBm), Time-Up Limit, and various test results for 5GHz WLAN. Includes sub-headers for Ant 6, Ant 6, Ant 7, Ant 7, Ant 7, and Ant 6+7.

Table with columns: Mode, Channel, Frequency (MHz), Average Power (dBm), Time-Up Limit, and various test results for 5GHz WLAN. Includes sub-headers for Ant 6, Ant 6, Ant 7, Ant 7, Ant 7, and Ant 6+7.

Table with columns: Mode, Channel, Frequency (MHz), Average Power (dBm), Time-Up Limit, and various test results for 5GHz WLAN. Includes sub-headers for Ant 6, Ant 6, Ant 7, Ant 7, Ant 7, and Ant 6+7.

Table with columns: Mode, Channel, Frequency (MHz), Average Power (dBm), Time-Up Limit, and various test results for 5GHz WLAN. Includes sub-headers for Ant 6, Ant 6, Ant 7, Ant 7, Ant 7, and Ant 6+7.

BT BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
	CH 00	2402	17.58	14.68	14.70
	CH 39	2441	17.78	14.85	14.89
	CH 78	2480	16.38	13.47	13.56
Tune-up Limit			18.50	15.00	15.00

BT LE

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	17.60
	CH 19	2440	17.80
	CH 39	2480	16.60
Tune-up Limit			18.50

BT LE V5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	17.90
	CH 19	2440	18.10
	CH 39	2480	16.80
Tune-up Limit			18.50