

Reduced Power Mode for Other PA DS16

Band 2 Ant0 DS16										
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch 1 Freq. 18700	Power Mode Ch 1 Freq. 18700	Power High Ch 1 Freq. 19100	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
18700 18700 19100										
20	QPSK	1	0	23.15	23.15	23.15				
20	QPSK	1	49	23.04	23.22	23.09	24	0		
20	QPSK	1	99	23.03	23.17	23.00				
20	QPSK	50	0	22.58	22.58	22.58				
20	QPSK	50	24	22.87	22.85	22.82	24	0		
20	QPSK	50	50	22.75	22.88	22.82				
20	QPSK	100	0	23.15	23.15	23.15				
20	16QAM	1	0	22.97	23.20	23.06				
20	16QAM	1	49	23.02	23.18	23.13	24	0		
20	16QAM	1	99	23.13	23.28					
20	16QAM	50	0	22.65	22.71	22.67				
20	16QAM	50	24	22.41	22.63	22.57	23.5	0.5		
20	16QAM	50	50	22.59	22.68	22.66				
20	16QAM	100	0	22.58	22.82	22.78				
20	16QAM	1	49	22.59	22.65	22.57	23.5	0.5		
20	16QAM	1	99	22.66	22.71	22.59				
20	16QAM	50	0	21.55	21.71	21.51				
20	16QAM	50	24	21.46	21.61	21.35	22.5	1.5		
20	16QAM	50	50	21.56	21.61	21.44				
20	16QAM	100	0	21.56	21.70	21.50				
20	256QAM	1	0	19.51	19.66	19.60				
20	256QAM	1	49	19.67	19.57	19.53	20.5	3.5		
20	256QAM	1	99	19.57	19.65	19.52				
20	256QAM	50	0	19.55	19.55	19.43				
20	256QAM	50	24	19.42	19.67	19.51	20.5	3.5		
20	256QAM	50	50	19.38	19.60	19.55				
20	256QAM	100	0	19.39	19.58	19.58				
Channel										
18675 18680 19125										
15	QPSK	1	0	23.01	23.10	22.73	Turn-up time (sec)	MPR (dB)		
15	QPSK	1	37	22.78	23.02	22.89	24	0		
15	QPSK	1	74	22.91	23.04	22.81				
15	QPSK	36	0	22.51	22.81	22.62				
15	QPSK	36	20	22.78	22.85	22.84	24	0		
15	QPSK	36	39	22.68	22.88	22.59				
15	QPSK	75	0	23.06	23.13	22.86				
15	16QAM	1	0	22.92	23.00	22.85				
15	16QAM	1	37	22.75	23.13	22.88	24	0		
15	16QAM	1	74	22.75	22.95	22.84				
15	16QAM	36	0	22.46	22.49	22.51				
15	16QAM	36	20	22.22	22.38	22.31	23.5	0.5		
15	16QAM	36	39	22.25	22.31	22.18				
15	16QAM	75	0	22.54	22.58	22.37				
15	16QAM	1	37	22.45	22.72	22.65				
15	16QAM	1	74	22.53	22.41	22.48	23.5	0.5		
15	16QAM	1	74	22.57	22.50	22.52				
15	16QAM	36	0	21.23	21.25	21.25	22.5	1.5		
15	16QAM	36	20	21.23	21.25	21.25				
15	16QAM	36	39	21.36	21.37	21.33				
15	16QAM	75	0	21.36	21.46	21.31				
15	256QAM	1	0	19.38	19.45	19.42	20.5	3.5		
15	256QAM	1	37	19.46	19.34	19.49				
15	256QAM	1	74	19.46	19.34	19.49				
15	256QAM	36	0	19.34	19.47	19.39				
15	256QAM	36	20	19.20	19.41	19.36	20.5	3.5		
15	256QAM	36	39	19.20	19.41	19.36				
15	256QAM	75	0	19.18	19.45	19.35				
Channel										
18650 18660 19150										
10	QPSK	1	0	23.98	23.99	23.70	Turn-up time (sec)	MPR (dB)		
10	QPSK	1	25	22.82	23.15	22.82	24	0		
10	QPSK	1	49	22.88	22.96	22.88				
10	QPSK	25	0	22.46	22.71	22.51				
10	QPSK	25	12	22.64	22.71	22.78	24	0		
10	QPSK	25	25	22.58	22.80	22.75				
10	QPSK	50	0	23.98	23.94	23.79				
10	16QAM	1	0	22.92	23.07	22.81	24	0		
10	16QAM	1	49	22.95	23.05	22.73				
10	16QAM	25	0	22.54	22.49	22.61	23.5	0.5		
10	16QAM	25	12	22.27	22.45	22.61				
10	16QAM	25	25	22.12	22.45	22.20				
10	16QAM	50	0	22.37	22.65	22.39				
10	16QAM	50	12	22.52	22.64	22.62	23.5	0.5		
10	16QAM	1	25	22.38	22.41	22.49				
10	16QAM	1	49	22.58	22.45	22.44				
10	16QAM	25	0	21.55	21.55	21.55	22.5	1.5		
10	16QAM	25	12	21.20	21.25	21.24				
10	16QAM	25	25	21.36	21.38	21.34				
10	16QAM	50	0	21.52	21.52	21.52				
10	256QAM	1	0	19.32	19.51	19.40	20.5	3.5		
10	256QAM	1	25	19.56	19.45	19.32				
10	256QAM	1	49	19.37	19.41	19.34				
10	256QAM	25	0	19.45	19.37	19.40				
10	256QAM	25	12	19.32	19.52	19.38	20.5	3.5		
10	256QAM	25	25	19.46	19.35	19.45				
10	256QAM	50	0	19.21	19.40	19.40				
Channel										
18625 18630 19175										
5	QPSK	1	0	23.00	23.15	22.81	Turn-up time (sec)	MPR (dB)		
5	QPSK	1	12	23.00	23.12	22.70	24	0		
5	QPSK	1	24	22.86	22.85	22.78				
5	QPSK	12	0	22.44	22.88	22.47				
5	QPSK	12	7	22.65	22.84	22.72	24	0		
5	QPSK	12	14	22.57	22.81	22.69				
5	QPSK	25	0	23.07	23.13	22.82				
5	16QAM	1	0	22.76	22.96	22.87	24	0		
5	16QAM	1	12	22.84	22.90	22.87				
5	16QAM	1	24	22.74	22.85	22.79				
5	16QAM	12	0	22.49	22.48	22.50				
5	16QAM	12	7	22.17	22.38	22.35	23.5	0.5		
5	16QAM	12	13	22.22	22.36	22.19				
5	16QAM	25	0	22.33	22.61	22.40				
5	16QAM	25	7	22.38	22.58	22.39	23.5	0.5		
5	16QAM	1	12	22.43	22.49	22.33				
5	16QAM	1	24	22.49	22.57	22.50				
5	16QAM	12	0	21.21	21.40	21.38	22.5	1.5		
5	16QAM	12	7	21.21	21.40	21.08				
5	16QAM	12	13	21.50	21.52	21.32				
5	16QAM	25	0	21.40	21.43	21.41				
5	256QAM	1	0	19.33	19.57	19.44	20.5	3.5		
5	256QAM	1	12	19.50	19.51	19.30				
5	256QAM	1	24	19.32	19.45	19.42				
5	256QAM	12	0	19.41	19.52	19.39				
5	256QAM	12	7	19.34	19.58	19.34	20.5	3.5		
5	256QAM	12	13	19.22	19.40	19.21				
5	256QAM	25	0	19.27	19.22	19.34				
Channel										
18515 18520 19085										
3	QPSK	1	0	23.11	23.08	22.79	Turn-up time (sec)	MPR (dB)		
3	QPSK	1	8	22.96	23.06	22.85	24	0		
3	QPSK	1	14	22.85	23.13	22.78				
3	QPSK	8	0	22.49	22.85	22.48				
3	QPSK	8	4	22.76	22.89	22.57	24	0		
3	QPSK	8	8	22.65	22.85	22.61				
3	QPSK	15	0	23.01	23.00	22.71				
3	16QAM	1	0	22.80	22.99	23.01	24	0		
3	16QAM	1	8	22.76	23.11	22.94				
3	16QAM	1	14	22.81	23.09	22.86				
3	16QAM	8	0	22.53	22.49	22.47	23.5	0.5		
3	16QAM	8	4	22.16	22.40	22.43				
3	16QAM	8	7	22.07	22.43	22.12				
3	16QAM	15	0	22.52	22.85	22.52	23.5	0.5		
3	16QAM	1	8	22.54	22.48	22.49				
3	16QAM	1	14	22.42	22.64	22.50				
3	16QAM	8	0	21.41	21.50	21.31	22.5	1.5		
3	16QAM	8	4	21.24	21.40	21.23				
3	16QAM	8	7	21.47	21.34	21.40				
3	16QAM	15	0	21.36	21.59	21.46				
3	256QAM	1	0	19.41	19.44	19.57	20.5	3.5		
3	256QAM	1	8	19.50	19.47	19.48				
3	256QAM	1	14	19.48	19.52	19.42				
3	256QAM	8	0	19.50	19.52	19.34				
3	256QAM	8	4	19.36	19.51	19.36	20.5	3.5		
3	256QAM	8	7	19.48	19.48	19.45				
3	256QAM	15	0	19.33	19.26	19.30				
Channel										
18507 18510 19093										
1.4	QPSK	1	0	23.00	23.02	22.84	Turn-up time (sec)	MPR (dB)		
1.4	QPSK	1	22	22.90	22.99	22.75	24	0		
1.4	QPSK	1	5	22.79	23.05	22.81				
1.4	QPSK	3	0	22.42	22.89	22.52				
1.4	QPSK	3	22	22.68	22.91	22.70	24	0		
1.4	QPSK	3	3	22.70	22.69	22.55				
1.4	QPSK	6	0	23.00	23.00	22.89				
1.4	QPSK	6	22	22.76	22.87	22.87	24	0		
1.4	QPSK	6	5	22.81	22.84	22.81				
1.4	QPSK	3	1	22.25	22.67	22.38				
1.4	QPSK	3	22	22.58	22.78					

Band 2 Ant1 DSI6														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. MHz	Power High Ch / Freq. MHz	Power High Ch / Freq. MHz	Turn-up time (dB)	MFR (dB)						
Channel														
1867.5 18690 19195														
20	QPSK	1	0	20.45	20.50	20.49	22.1	0						
20	QPSK	1	49	20.34	20.32	20.31								
20	QPSK	1	99	20.24	20.33	20.34								
20	QPSK	50	0	20.31	20.48	20.27								
20	QPSK	50	24	20.38	20.33	20.24	22.1	0						
20	QPSK	50	50	20.18	20.40	20.25								
20	QPSK	100	0	20.24	20.32	20.23								
20	16QAM	1	0	20.41	20.52	20.49								
20	16QAM	1	49	20.29	20.28	20.37	22.1	0						
20	16QAM	1	99	20.15	20.27	20.27								
20	16QAM	50	24	20.25	20.45	20.19								
20	16QAM	50	50	20.15	20.28	20.19								
20	16QAM	100	0	20.10	20.20	20.21	22.1	0						
20	64QAM	1	0	20.34	20.54	20.46								
20	64QAM	1	49	20.22	20.25	20.38								
20	64QAM	50	24	20.20	20.39	20.15								
20	64QAM	100	0	20.12	20.19	20.20	22.1	0						
20	256QAM	1	0	19.58	19.63	19.67								
20	256QAM	1	49	19.43	19.63	19.58								
20	256QAM	1	99	19.44	19.58	19.35								
20	256QAM	50	0	19.47	19.49	19.44	20.5	1.6						
20	256QAM	50	24	19.35	19.54	19.31								
20	256QAM	50	50	19.41	19.44	19.30								
20	256QAM	100	0	19.46	19.48	19.34								
Channel														
1867.5 18690 19195														
16	QPSK	1	0	20.38	20.55	20.28	22.1	0						
16	QPSK	1	37	20.28	20.18	20.40								
16	QPSK	1	74	20.14	20.28	20.23								
16	QPSK	36	0	20.24	20.38	20.17								
16	QPSK	36	37	20.35	20.40	20.17	22.1	0						
16	QPSK	36	74	20.15	20.28	20.19								
16	QPSK	75	0	20.13	20.19	20.15								
16	16QAM	1	0	20.34	20.40	20.37								
16	16QAM	1	37	20.23	20.19	20.27	22.1	0						
16	16QAM	1	74	20.13	20.17	20.18								
16	16QAM	36	0	20.23	20.35	20.21								
16	16QAM	36	37	20.15	20.16	20.32								
16	16QAM	36	74	20.20	20.32	20.23	22.1	0						
16	16QAM	75	0	20.13	20.18	20.10								
16	64QAM	1	0	20.32	20.40	20.34								
16	64QAM	1	37	20.16	20.12	20.33								
16	64QAM	1	74	20.13	20.11	20.13	22.1	0						
16	64QAM	36	0	20.13	20.38	20.13								
16	64QAM	36	37	20.20	20.30	20.28								
16	64QAM	36	74	20.13	20.25	20.34								
16	64QAM	75	0	20.23	20.15	20.34	20.5	1.6						
16	256QAM	1	37	19.44	19.41	19.44								
16	256QAM	1	74	19.39	19.35	19.34								
16	256QAM	1	74	19.26	19.39	19.42								
16	256QAM	36	0	19.35	19.35	19.35	20.5	1.6						
16	256QAM	36	37	19.30	19.33	19.37								
16	256QAM	36	74	19.27	19.41	19.34								
16	256QAM	75	0	19.29	19.29	19.29								
Channel														
18690 18690 19195														
10	QPSK	1	0	20.47	20.48	20.48	22.1	0						
10	QPSK	1	25	20.23	20.20	20.45								
10	QPSK	1	49	20.14	20.22	20.19								
10	QPSK	25	0	20.27	20.27	20.27								
10	QPSK	25	12	20.26	20.27	20.18	22.1	0						
10	QPSK	25	25	20.12	20.30	20.11								
10	QPSK	50	0	20.27	20.26	20.26								
10	16QAM	1	0	20.31	20.38	20.33								
10	16QAM	1	25	20.19	20.25	20.35	22.1	0						
10	16QAM	1	49	20.06	20.18	20.26								
10	16QAM	25	0	20.36	20.44	20.19								
10	16QAM	25	12	20.22	20.33	20.13								
10	16QAM	50	0	20.15	20.33	20.13	22.1	0						
10	16QAM	50	25	20.10	20.31	20.10								
10	64QAM	1	0	20.36	20.14	20.15								
10	64QAM	1	49	20.34	20.18	20.15								
10	64QAM	25	0	20.15	20.33	20.34	22.1	0						
10	64QAM	25	12	20.20	20.33	20.16								
10	64QAM	50	0	20.12	20.33	20.16								
10	64QAM	50	0	20.16	20.10	20.15								
10	256QAM	1	25	19.51	19.35	19.42	20.5	1.6						
10	256QAM	1	25	19.38	19.50	19.44								
10	256QAM	1	49	19.38	19.40	19.25								
10	256QAM	25	0	19.27	19.51	19.47								
10	256QAM	25	12	19.28	19.42	19.27	20.5	1.6						
10	256QAM	25	25	19.20	19.34	19.27								
10	256QAM	50	0	19.19	19.31	19.26								
Channel														
18695 18690 19195														
5	QPSK	1	0	20.33	20.45	20.45			22.1	0				
5	QPSK	1	12	20.22	20.25	20.38								
5	QPSK	1	24	20.22	20.24	20.30								
5	QPSK	12	7	20.37	20.43	20.31								
5	QPSK	12	7	20.31	20.40	20.14	22.1	0						
5	QPSK	12	13	20.17	20.39	20.15								
5	QPSK	25	0	20.37	20.17	20.26								
5	16QAM	1	0	20.31	20.48	20.37								
5	16QAM	1	12	20.21	20.20	20.28	22.1	0						
5	16QAM	1	24	20.37	20.14	20.15								
5	16QAM	12	0	20.12	20.37	20.15								
5	16QAM	12	7	20.17	20.41	20.37								
5	16QAM	12	13	20.15	20.12	20.17	22.1	0						
5	64QAM	1	0	20.22	20.48	20.43								
5	64QAM	1	12	20.13	20.21	20.18								
5	64QAM	1	24	20.37	20.18	20.15								
5	64QAM	12	0	20.15	20.35	20.19	22.1	0						
5	64QAM	12	7	20.37	20.17	20.12								
5	64QAM	12	13	20.37	20.20	20.12								
5	64QAM	25	0	20.37	20.17	20.12								
5	256QAM	1	0	19.29	19.39	19.39	20.5	1.6						
5	256QAM	1	12	19.32	19.33	19.41								
5	256QAM	1	24	19.33	19.41	19.33								
5	256QAM	12	0	19.30	19.31	19.40								
5	256QAM	12	7	19.15	19.28	19.15	20.5	1.6						
5	256QAM	12	13	19.15	19.28	19.27	20.5	1.6						
5	256QAM	25	0	19.24	19.45	19.38								
Channel														
18695 18690 19195														
3	QPSK	1	0	20.31	20.48	20.40			22.1	0				
3	QPSK	1	8	20.23	20.28	20.44								
3	QPSK	1	16	20.19	20.24	20.39								
3	QPSK	8	0	20.27	20.42	20.17								
3	QPSK	8	8	20.33	20.48	20.15	22.1	0						
3	QPSK	8	16	20.17	20.38	20.13								
3	QPSK	16	0	20.15	20.28	20.12								
3	16QAM	1	0	20.39	20.59	20.49								
3	16QAM	1	8	20.21	20.35	20.47	22.1	0						
3	16QAM	1	16	20.37	20.22	20.14								
3	16QAM	8	0	20.27	20.45	20.19								
3	16QAM	8	8	20.14	20.37	20.20								
3	16QAM	8	16	20.37	20.16	20.14	22.1	0						
3	16QAM	16	0	20.12	20.44	20.19								
3	16QAM	16	8	20.32	20.44	20.39								
3	64QAM	1	8	20.18	20.18	20.27								
3	64QAM	1	16	20.13	20.19	20.17	22.1	0						
3	64QAM	8	0	20.17	20.39	20.17								
3	64QAM	8	8	20.27	20.31	20.13								
3	64QAM	8	16	20.17	20.30	20.12								
3	256QAM	1	0	19.36	19.56	19.38	20.5	1.6						
3	256QAM	1	8	19.37	19.38	19.40								
3	256QAM	1	16	19.23	19.42	19.33								
3	256QAM	8	0	19.35	19.31	19.42								
3	256QAM	8	8	19.28	19.32	19.35	20.5	1.6						
3	256QAM	8	16	19.26	19.49	19.29								
3	256QAM	16	0	19.27	19.40	19.29								
3	256QAM	16	8	19.17	19.44	19.31								
Channel														
18697.5 18690 19195														
1.4	QPSK	1	0	20.40	20.58	20.41	22.1	0						
1.4	QPSK	1	20	20.20	20.20	20.30								
1.4	QPSK	1	40	20.15	20.27	20.21								
1.4	QPSK	3	0	20.20	20.40	20.19								
1.4	QPSK	3	20	20.25	20.44	20.20	22.1	0						
1.4	QPSK	3	40	20.37	20.27	20.16								
1.4	QPSK	6	0	20.16	20.26	20.12								
1.4	QPSK	6	20	20.36	20.16	20.27								
1.4	16QAM	1	0	20.17	20.17	20.21	22.1	0						
1.4	16QAM	1	20	20.14	20.19	20.20								
1.4	16QAM	1	40	20.12	20.33	20.21								
1.4	16QAM	3	0	20.20	20.50	20.42								
1.4	16QAM	1	0	20.22	20.22	20.21	22.1	0						
1.4	16QAM	1	20	20.17	20.17	20.17								
1.4	16QAM	3	0	20.17	20.14	20.12								
1.4	16QAM	3	20	20.17	20.24	20.15								
1.4	16QAM	6	0	20.19	20.39	20.33	20.5	1.6						
1.4	16QAM	6	20	20.33	20.36	20.31								
1.4	16QAM	6	40	20.17	20.12	20.18								
1.4	16QAM	6	60	20.17	20.20	20.12								
1.4	256QAM	1	0	19.28	19.20	19.31	20.5	1.6						
1.4	256QAM	1	20	19.37	19.28	19.30								
1.4	256QAM	1	40	19.25	19.40	19.31								
1.4	256QAM	1	60	19.27	19.38	19.29								

Band 2 Ant2 DSI6														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.51	21.42	22.26	23.5	0						
20	QPSK	1	49	21.68	22.20	22.07								
20	QPSK	1	99	21.66	23.28	22.52								
20	QPSK	50	0	22.39	22.38	22.52								
20	QPSK	50	24	22.25	22.44	22.37	23.5	0						
20	QPSK	50	50	22.24	22.42	22.30								
20	QPSK	100	0	22.25	22.33	22.27								
20	16QAM	1	0	22.09	22.11	22.29								
20	16QAM	1	49	22.01	22.35	22.23	22.5	1						
20	16QAM	1	99	22.05	22.17	22.01								
20	16QAM	50	0	21.35	21.54	21.50								
20	16QAM	50	24	21.31	21.37	21.26								
20	16QAM	50	50	21.34	21.39	21.25	22	1.5						
20	64QAM	1	0	21.53	21.63	21.72								
20	64QAM	1	49	21.48	21.52	21.70								
20	64QAM	50	0	21.47	21.71	21.44								
20	64QAM	50	24	20.39	20.62	20.59	21	2.5						
20	64QAM	50	50	20.21	20.38	20.40								
20	256QAM	1	0	20.44	20.52	20.29								
20	256QAM	1	49	18.78	18.90	18.98								
20	256QAM	50	0	18.72	18.81	18.96	19	4.5						
20	256QAM	50	24	18.69	18.82	18.89								
20	256QAM	50	50	18.68	18.96	18.77								
20	256QAM	100	0	18.71	18.77	18.84								
Channel														
Frequency (MHz)														
18	QPSK	1	0	21.08	23.25	22.08	23.5	0						
18	QPSK	1	37	21.07	23.02	21.87								
18	QPSK	1	74	21.63	23.02	21.94								
18	QPSK	36	0	22.28	22.45	22.43								
18	QPSK	36	37	22.17	22.35	22.26	23.5	0						
18	QPSK	36	74	22.09	22.22	22.27								
18	QPSK	75	0	22.07	22.25	22.22								
18	16QAM	1	0	21.86	21.86	22.19								
18	16QAM	1	37	21.78	22.11	22.06	22.5	1						
18	16QAM	1	74	21.76	21.89	21.89								
18	16QAM	36	0	21.26	21.49	21.35								
18	16QAM	36	20	21.25	21.21	21.42								
18	16QAM	36	37	21.16	21.22	21.24	22	1.5						
18	16QAM	75	0	21.08	21.22	21.24								
18	64QAM	1	0	21.39	21.56	21.46								
18	64QAM	1	37	21.38	21.45	21.48								
18	64QAM	1	74	21.39	21.52	21.23	21	2.5						
18	64QAM	36	0	20.30	20.45	20.35								
18	64QAM	36	20	20.30	20.36	20.47								
18	64QAM	36	37	20.11	20.15	20.35								
18	64QAM	75	0	20.28	20.39	20.06	19	4.5						
18	256QAM	1	0	18.53	18.60	18.60								
18	256QAM	1	37	18.57	18.91	18.81								
18	256QAM	1	74	18.62	18.86	18.54								
18	256QAM	36	0	18.55	18.55	18.87	19	4.5						
18	256QAM	36	20	18.55	18.52	18.80								
18	256QAM	36	37	18.48	18.62	18.58								
18	256QAM	75	0	18.49	18.49	18.44								
Channel														
Frequency (MHz)														
18	QPSK	1	0	21.65	23.14	21.95	23.5	0						
18	QPSK	1	49	21.68	23.15	22.05								
18	QPSK	1	99	21.67	23.16	22.05								
18	QPSK	50	0	22.34	22.34	22.34								
18	QPSK	50	24	22.20	22.21	22.23	23.5	0						
18	QPSK	50	25	22.06	22.31	22.18								
18	QPSK	100	0	22.12	22.12	22.12								
18	16QAM	1	0	21.88	22.11	22.03								
18	16QAM	1	26	21.75	22.20	22.05	22.5	1						
18	16QAM	1	49	22.05	22.05	22.05								
18	16QAM	25	0	21.31	21.49	21.29								
18	16QAM	25	12	21.09	21.19	21.35								
18	16QAM	36	0	21.37	21.37	21.37	22	1.5						
18	16QAM	36	12	21.22	21.27	21.23								
18	64QAM	1	0	21.36	21.38	21.47								
18	64QAM	1	24	21.25	21.24	21.40								
18	64QAM	1	49	21.44	21.59	21.37	21	2.5						
18	64QAM	25	0	20.30	20.47	20.50								
18	64QAM	25	12	20.30	20.30	20.48								
18	64QAM	25	25	20.08	20.20	20.26								
18	64QAM	50	0	20.25	20.38	20.09	19	4.5						
18	256QAM	1	0	18.72	18.82	18.85								
18	256QAM	1	26	18.69	18.93	18.82								
18	256QAM	1	49	18.65	18.86	18.55								
18	256QAM	36	0	18.44	18.52	18.85	19	4.5						
18	256QAM	36	12	18.51	18.58	18.74								
18	256QAM	36	25	18.37	18.70	18.53								
18	256QAM	50	0	18.46	18.60	18.43								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.63	23.15	21.53	23.5	0						
5	QPSK	1	12	21.58	22.97	21.83								
5	QPSK	1	24	21.51	23.09	21.97								
5	QPSK	12	0	22.12	22.42	22.13								
5	QPSK	12	7	22.16	22.19	22.23	23.5	0						
5	QPSK	12	13	22.17	22.30	22.25								
5	QPSK	25	0	22.08	22.27	22.14								
5	16QAM	1	0	21.62	22.05	22.15								
5	16QAM	1	12	21.61	22.21	22.09	22.5	1						
5	16QAM	1	24	21.52	22.07	22.05								
5	16QAM	12	0	21.20	21.30	21.27								
5	16QAM	12	7	21.19	21.29	21.28								
5	16QAM	12	13	21.17	21.26	21.21	22	1.5						
5	16QAM	25	0	21.28	21.17	21.10								
5	64QAM	1	0	21.30	21.56	21.33								
5	64QAM	1	24	21.32	21.59	21.47								
5	64QAM	1	24	21.32	21.67	21.36	21	2.5						
5	64QAM	12	0	20.22	20.36	20.49								
5	64QAM	12	7	20.30	20.30	20.48								
5	64QAM	12	13	20.03	20.35	20.20								
5	64QAM	25	0	20.24	20.25	20.12	19	4.5						
5	256QAM	1	0	18.59	18.66	18.88								
5	256QAM	1	12	18.59	18.96	18.86								
5	256QAM	1	24	18.62	18.88	18.53								
5	256QAM	12	0	18.49	18.84	18.82	19	4.5						
5	256QAM	12	7	18.43	18.93	18.87								
5	256QAM	12	13	18.40	18.80	18.40								
5	256QAM	25	0	18.55	18.62	18.43	19	4.5						
Channel														
Frequency (MHz)														
3	QPSK	1	0	21.63	23.14	21.99					23.5	0		
3	QPSK	1	8	21.59	23.01	21.90								
3	QPSK	1	16	21.52	23.02	21.86								
3	QPSK	8	0	22.15	22.44	22.40								
3	QPSK	8	4	21.98	22.28	22.32	23.5	0						
3	QPSK	8	12	22.08	22.27	22.26								
3	QPSK	16	0	22.16	22.30	22.18								
3	16QAM	1	0	21.91	21.98	22.25								
3	16QAM	1	8	21.76	22.11	22.08	22.5	1						
3	16QAM	1	16	21.78	22.06	22.06								
3	16QAM	8	0	21.28	21.50	21.45								
3	16QAM	8	4	21.35	21.50	21.45								
3	16QAM	8	12	21.27	21.14	21.09	22	1.5						
3	16QAM	16	0	21.30	21.50	21.45								
3	64QAM	1	0	21.38	21.45	21.67								
3	64QAM	1	8	21.24	21.64	21.47								
3	64QAM	1	16	21.52	21.61	21.61	21	2.5						
3	64QAM	8	0	20.34	20.59	20.49								
3	64QAM	8	4	20.36	20.32	20.42								
3	64QAM	8	12	20.34	20.27	20.34								
3	64QAM	16	0	20.33	20.34	20.13	19	4.5						
3	256QAM	1	0	18.73	18.81	18.86								
3	256QAM	1	8	18.74	18.84	18.74								
3	256QAM	1	16	18.86	18.86	18.84								
3	256QAM	8	0	18.60	18.72	18.58	19	4.5						
3	256QAM	8	4	18.59	18.90	18.68								
3	256QAM	8	12	18.26	18.53	18.57								
3	256QAM	15	0	18.56	18.52	18.87	19	4.5						
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	21.52	23.20	22.07					23.5	0		
1.4	QPSK	1	8	21.50	23.15	22.06								
1.4	QPSK	1	16	21.45	23.14	22.06								
1.4	QPSK	8	0	22.31	22.40	22.42								
1.4	QPSK	8	4	22.15	22.41	22.35	23.5	0						
1.4	QPSK	8	12	22.13	22.41	22.35								
1.4	QPSK	3	0	22.04	22.24	22.13								
1.4	QPSK	3	24	22.04	22.24	22.13								
1.4	QPSK	3	48	22.09	22.05	22.14	22.5	1						
1.4	QPSK	3	72	21.89	22.05	21.89								
1.4	QPSK	3	96	21.62	21.68	21.81								
1.4	QPSK	3	120	21.78	21.84	21.84								
1.4	QPSK	3	144	21.92	21.91	21.91	22	1.5						
1.4	QPSK	3	168	21.62	21.68	21.81								
1.4	QPSK	3	192	21.48	21.55	21.68								
1.4	QPSK	3	216	21.51	21.51	21.59								
1.4	QPSK	3	240	20.85	21.05	20.98	22	1.5						
1.4	QPSK	3	264	20.85	20.85	20.98								
1.4	QPSK	3	288	20.55	20.83	20.79								
1.4	QPSK	3	312	20.33	20.30	20.23								
1.4	QPSK	3	336	18.86	18.91	18.91	19	4.5						
1.4	QPSK	3	360	18.53	18.57	18.52								
1.4	QPSK	3	384	18.53	18.72	18.72								
1.4	QPSK	3	408	18.42	18.53	18.58								
1.4	QPSK	3	432	18.39	18.39	18.60								
1.4	QPSK	3	456	18.53	18.65	18.60								

Band 2 Ant3 DSI6														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	APR3 (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	20.40	20.75	20.87	21.6	0						
20	QPSK	1	49	20.47	20.82	20.94								
20	QPSK	1	99	20.46	20.58	20.53								
20	QPSK	50	0	20.40	20.54	20.44								
20	QPSK	50	24	20.47	20.55	20.44	21.6	0						
20	QPSK	50	50	20.45	20.51	20.48								
20	QPSK	100	0	20.46	20.53	20.41								
20	16QAM	50	0	20.44	20.45	20.45								
20	16QAM	1	49	20.39	20.47	20.31	21.6	0						
20	16QAM	1	99	20.55	20.37	20.27								
20	16QAM	50	0	20.48	20.49	20.48								
20	16QAM	50	24	20.74	20.52	20.57								
20	16QAM	50	50	20.48	20.47	20.41	21.6	0						
20	16QAM	100	0	20.45	20.44	20.54								
20	16QAM	1	0	20.48	20.70	20.54								
20	16QAM	1	49	20.55	20.70	20.35								
20	16QAM	50	0	20.40	20.47	20.45	21.6	0						
20	16QAM	50	24	20.19	20.39	20.12								
20	16QAM	50	50	20.06	20.38	20.12								
20	16QAM	100	0	20.43	20.39	20.32								
20	256QAM	1	49	19.32	19.02	19.38	20	1.6						
20	256QAM	1	99	19.28	19.47	19.27								
20	256QAM	50	0	20.06	19.38	19.43								
20	256QAM	50	24	19.23	19.11	19.48								
20	256QAM	50	50	19.10	19.18	19.40	20	1.6						
20	256QAM	100	0	19.25	19.09	19.28								
Channel														
Frequency (MHz)														
18	QPSK	1	0	20.54	20.82	20.87	21.6	0						
18	QPSK	1	37	20.44	20.58	20.41								
18	QPSK	1	74	20.61	20.55	20.41								
18	QPSK	36	0	20.50	20.50	20.40								
18	QPSK	36	39	20.39	20.39	20.38	21.6	0						
18	QPSK	36	39	20.33	20.38	20.48								
18	QPSK	75	0	20.42	20.52	20.48								
18	QPSK	75	0	20.57	20.41	20.41								
18	16QAM	1	37	20.29	20.36	20.19	21.6	0						
18	16QAM	1	74	20.19	20.39	20.19								
18	16QAM	36	0	20.54	20.57	20.49								
18	16QAM	36	39	20.67	20.59	20.51								
18	16QAM	75	0	20.53	20.57	20.44	21.6	0						
18	16QAM	75	0	20.38	20.58	20.48								
18	16QAM	1	37	20.46	20.59	20.38								
18	16QAM	1	74	20.34	20.41	20.34								
18	16QAM	36	0	20.16	20.28	20.28	21.6	0						
18	16QAM	36	39	20.20	20.15	20.28								
18	16QAM	36	39	20.02	20.24	20.05								
18	16QAM	75	0	20.30	20.28	20.52								
18	256QAM	1	37	19.24	18.95	19.06	20	1.6						
18	256QAM	1	74	19.23	19.26	19.06								
18	256QAM	36	0	19.35	19.38	19.08								
18	256QAM	36	39	19.38	19.35	19.39								
18	256QAM	75	0	19.33	18.96	19.19	20	1.6						
18	256QAM	75	0	19.15	19.31	19.07								
Channel														
Frequency (MHz)														
18	QPSK	1	0	20.54	20.65	20.60	21.6	0						
18	QPSK	1	25	20.39	20.55	20.36								
18	QPSK	1	49	20.58	20.45	20.44								
18	QPSK	25	0	20.51	20.53	20.43								
18	QPSK	25	12	20.36	20.50	20.36	21.6	0						
18	QPSK	25	25	20.37	20.48	20.40								
18	QPSK	50	0	20.50	20.46	20.46								
18	QPSK	50	25	20.37	20.51	20.29								
18	16QAM	1	0	20.50	20.61	20.29	21.6	0						
18	16QAM	1	25	20.36	20.41	20.29								
18	16QAM	25	0	20.64	20.54	20.40								
18	16QAM	25	12	20.60	20.51	20.48								
18	16QAM	50	0	20.45	20.55	20.45	21.6	0						
18	16QAM	50	25	20.35	20.59	20.49								
18	16QAM	1	0	20.45	20.35	20.45								
18	16QAM	1	25	20.47	20.35	20.47								
18	16QAM	1	49	20.29	20.44	20.32	21.6	0						
18	16QAM	25	0	20.20	20.35	20.28								
18	16QAM	25	12	20.16	20.35	20.09								
18	16QAM	50	0	20.32	20.35	20.19								
18	256QAM	1	0	19.05	19.11	19.11	20	1.6						
18	256QAM	1	25	19.11	19.37	19.04								
18	256QAM	1	49	19.09	19.34	19.07								
18	256QAM	25	0	19.13	19.22	19.28								
18	256QAM	25	12	19.19	19.02	19.34	20	1.6						
18	256QAM	25	25	19.04	19.01	19.33								
18	256QAM	50	0	19.24	19.30	19.10								
Channel														
Frequency (MHz)														
5	QPSK	1	0	20.53	20.80	20.85	21.6	0						
5	QPSK	1	12	20.40	20.53	20.42								
5	QPSK	1	24	20.55	20.54	20.50								
5	QPSK	12	0	20.59	20.46	20.46								
5	QPSK	12	7	20.33	20.46	20.31	21.6	0						
5	QPSK	12	13	20.38	20.48	20.37								
5	QPSK	25	0	20.37	20.51	20.38								
5	16QAM	1	0	20.58	20.53	20.31								
5	16QAM	1	12	20.33	20.39	20.18	21.6	0						
5	16QAM	1	24	20.43	20.27	20.23								
5	16QAM	12	0	20.64	20.60	20.47								
5	16QAM	12	7	20.49	20.52	20.53								
5	16QAM	25	0	20.38	20.61	20.32	21.6	0						
5	16QAM	25	0	20.51	20.35	20.41								
5	16QAM	1	0	20.59	20.62	20.44								
5	16QAM	1	12	20.08	20.34	20.01								
5	16QAM	1	24	20.34	20.44	20.30	21.6	0						
5	16QAM	12	0	20.12	20.35	20.34								
5	16QAM	12	7	20.08	20.34	20.01								
5	16QAM	25	0	19.99	20.20	20.01								
5	16QAM	25	0	20.41	20.27	20.24	21.6	0						
5	16QAM	50	0	19.00	19.15	19.23								
5	256QAM	1	12	19.11	19.02	19.10								
5	256QAM	1	24	19.01	19.33	19.12								
5	256QAM	12	0	19.22	19.31	19.23	20	1.6						
5	256QAM	12	7	19.04	19.84	19.89								
5	256QAM	25	0	19.07	19.12	19.20								
5	256QAM	25	7	19.13	19.12	19.20								
Channel														
Frequency (MHz)														
3	QPSK	1	0	20.49	20.59	20.64	21.6	0						
3	QPSK	1	12	20.52	20.42	20.43								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44	21.6	0						
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44	21.6	0						
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44	21.6	0						
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44	21.6	0						
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44	21.6	0						
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44	21.6	0						
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44	21.6	0						
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44	21.6	0						
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44	21.6	0						
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44	21.6	0						
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44	21.6	0						
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44	21.6	0						
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44	21.6	0						
3	QPSK	1	14	20.55	20.63	20.44								
3	QPSK	1	14	20.55	20.63	20.44								
3	Q													



Band 2 Ant1 DSI5														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR3 (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	16.28	16.33	16.04	17.5	0						
20	QPSK	1	49	16.16	16.31	16.04								
20	QPSK	1	99	16.14	16.27	16.14								
20	QPSK	50	0	15.97	16.26	15.80								
20	QPSK	50	24	15.94	16.25	15.82	17.5	0						
20	QPSK	50	50	15.95	16.12	15.98								
20	QPSK	100	0	16.17	16.22	16.07								
20	16QAM	50	0	16.20	16.22	16.07								
20	16QAM	1	49	16.04	16.24	16.04	17.5	0						
20	16QAM	1	99	15.98	16.18	16.00								
20	16QAM	50	0	16.01	16.15	15.98								
20	16QAM	50	24	15.82	16.07	15.96								
20	16QAM	50	50	15.75	15.84	15.91	17.5	0						
20	16QAM	100	0	16.07	16.09	16.06								
20	64QAM	1	0	16.23	16.23	15.94								
20	64QAM	1	49	16.07	16.24	16.07								
20	64QAM	50	0	15.87	16.10	15.89	17.5	0						
20	64QAM	50	24	15.81	15.94	15.83								
20	64QAM	50	50	15.72	15.87	15.94								
20	64QAM	100	0	16.12	16.14	15.93								
Channel				1607.5	1608.0	1602.5	Turn-up time (sec)	APR3 (dB)						
Frequency (MHz)				1607.5	1608.0	1602.5								
15	QPSK	1	37	16.20	16.31	16.02	17.5	0						
15	QPSK	1	37	16.13	16.33	16.03								
15	QPSK	1	74	16.04	16.14	16.03								
15	QPSK	36	0	15.92	16.16	15.87								
15	QPSK	36	25	15.86	16.11	15.89	17.5	0						
15	QPSK	36	39	15.92	16.09	15.92								
15	QPSK	75	0	16.13	16.17	15.99								
15	16QAM	1	74	16.08	16.17	16.13								
15	16QAM	1	37	15.98	16.12	15.92	17.5	0						
15	16QAM	1	37	15.91	16.30	16.07								
15	16QAM	36	0	15.82	16.04	15.80								
15	16QAM	36	20	15.77	16.04	15.79								
15	16QAM	36	25	15.96	16.08	15.93	17.5	0						
15	16QAM	75	0	15.95	16.08	15.73								
15	64QAM	1	0	16.18	16.18	15.91								
15	64QAM	1	37	16.07	16.27	16.07								
15	64QAM	1	74	15.95	16.05	15.97	17.5	0						
15	64QAM	36	0	15.75	16.04	15.55								
15	64QAM	36	25	15.80	16.04	15.80								
15	64QAM	36	39	15.94	15.92	15.85								
15	64QAM	75	0	15.85	16.00	15.91	17.5	0						
15	256QAM	1	0	16.13	16.13	15.97								
15	256QAM	1	37	16.06	16.20	15.80								
15	256QAM	1	74	15.97	16.12	16.07								
15	256QAM	36	0	15.82	16.03	15.80	17.5	0						
15	256QAM	36	20	15.88	15.85	15.80								
15	256QAM	36	39	15.72	15.97	15.84								
15	256QAM	75	0	15.90	16.00	15.84								
Channel														
Frequency (MHz)														
16	QPSK	1	0	16.02	16.29	16.02	17.5	0						
16	QPSK	1	25	16.04	16.27	15.96								
16	QPSK	1	49	16.04	16.24	16.12								
16	QPSK	25	0	15.82	15.92	15.95								
16	QPSK	25	12	15.82	15.92	15.95	17.5	0						
16	QPSK	25	25	15.91	15.88	15.91								
16	QPSK	50	0	16.03	16.16	15.97								
16	16QAM	1	0	16.14	16.13	15.79								
16	16QAM	1	25	16.02	16.18	15.92	17.5	0						
16	16QAM	1	49	15.86	16.14	15.78								
16	16QAM	25	0	15.87	16.03	15.80								
16	16QAM	25	12	15.78	16.01	15.78								
16	16QAM	50	0	15.71	15.76	15.81	17.5	0						
16	16QAM	50	0	15.98	16.03	15.82								
16	64QAM	1	0	16.19	16.14	15.86								
16	64QAM	1	24	15.93	16.04	15.90								
16	64QAM	1	49	15.87	16.12	16.00	17.5	0						
16	64QAM	25	0	15.75	16.05	15.58								
16	64QAM	25	12	15.71	16.00	15.58								
16	64QAM	25	25	15.83	15.77	15.89								
16	64QAM	50	0	15.94	16.00	15.89	17.5	0						
16	64QAM	50	0	16.14	16.04	15.84								
16	256QAM	1	25	16.05	16.21	15.84								
16	256QAM	1	49	16.04	16.14	16.01								
16	256QAM	25	0	15.83	16.13	15.71	17.5	0						
16	256QAM	25	12	15.74	15.80	15.84								
16	256QAM	25	25	15.78	16.01	15.84								
16	256QAM	50	0	16.08	16.00	15.89								
Channel														
Frequency (MHz)														
5	QPSK	1	0	16.23	16.09	16.07	17.5	0						
5	QPSK	1	12	16.03	16.21	15.97								
5	QPSK	1	24	16.08	16.21	16.05								
5	QPSK	12	0	15.86	16.06	15.80								
5	QPSK	12	7	15.82	15.92	15.90	17.5	0						
5	QPSK	12	13	15.84	15.88	15.88								
5	QPSK	25	0	16.14	16.16	16.04								
5	16QAM	1	0	16.08	16.12	15.81								
5	16QAM	1	12	15.97	16.14	15.91	17.5	0						
5	16QAM	1	24	15.90	16.13	15.82								
5	16QAM	12	0	15.88	16.06	15.84								
5	16QAM	12	7	15.76	15.97	15.73								
5	16QAM	12	13	15.83	15.72	15.78	17.5	0						
5	16QAM	25	0	15.95	16.00	15.80								
5	64QAM	1	0	16.16	16.16	15.89								
5	64QAM	1	12	16.01	16.21	15.84								
5	64QAM	1	24	15.96	16.14	15.93	17.5	0						
5	64QAM	12	0	15.75	16.01	15.58								
5	64QAM	12	7	15.72	15.88	15.81								
5	64QAM	12	13	15.82	15.81	15.87								
5	64QAM	25	0	15.99	15.88	15.94	17.5	0						
5	256QAM	1	0	16.17	16.27	15.94								
5	256QAM	1	12	16.01	16.24	15.87								
5	256QAM	1	24	16.02	16.14	16.07								
5	256QAM	12	0	15.81	16.16	16.04	17.5	0						
5	256QAM	12	7	15.86	15.80	15.89								

Band 2 Ant2 DSI5														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.26	21.17	21.33	22.6	0						
20	QPSK	1	49	21.04	21.19	21.11								
20	QPSK	1	99	21.29	21.31	21.26								
20	QPSK	50	0	21.15	21.25	21.31								
20	QPSK	50	24	20.95	21.07	20.99	22.6	0						
20	QPSK	50	50	21.16	21.24	21.22								
20	QPSK	100	0	21.23	21.25	21.25								
20	16QAM	100	0	21.16	21.17	21.27								
20	16QAM	1	49	21.11	21.14	21.04	22.5	0.1						
20	16QAM	1	99	21.18	21.21	21.17								
20	16QAM	50	0	20.94	20.99	20.99								
20	16QAM	50	24	20.24	20.31	20.32								
20	16QAM	50	50	20.20	20.37	20.32	22	0.6						
20	16QAM	100	0	20.21	20.23	20.23								
20	64QAM	1	0	21.17	21.26	21.14								
20	64QAM	1	49	21.11	21.13	21.00								
20	64QAM	50	0	20.99	20.92	20.99	21	1.6						
20	64QAM	50	24	20.40	20.41	20.36								
20	64QAM	50	50	20.21	20.38	20.40								
20	64QAM	100	0	20.44	20.52	20.29								
20	256QAM	1	49	18.72	18.81	18.96	19	3.6						
20	256QAM	1	99	18.69	18.82	18.89								
20	256QAM	50	0	18.76	18.90	18.99								
20	256QAM	50	24	18.61	18.71	18.87								
20	256QAM	50	50	18.63	18.79	18.88	19	3.6						
20	256QAM	100	0	18.71	18.83	18.94								
Channel														
Frequency (MHz)														
18	QPSK	1	0	21.17	21.28	21.27	22.6	0						
18	QPSK	1	37	20.98	21.11	21.02								
18	QPSK	1	74	21.21	21.19	21.21								
18	QPSK	36	0	21.13	21.20	21.28								
18	QPSK	36	0	20.84	20.96	20.91	22.6	0						
18	QPSK	36	39	21.02	21.18	21.14								
18	QPSK	75	0	21.10	21.15	21.15								
18	16QAM	1	0	21.08	21.16	21.17								
18	16QAM	1	37	20.97	21.09	20.94	22.5	0.1						
18	16QAM	1	74	21.06	21.09	21.05								
18	16QAM	36	0	20.30	20.38	20.51								
18	16QAM	36	20	20.19	20.23	20.14								
18	16QAM	36	20	20.17	20.23	20.19	22	0.6						
18	16QAM	75	0	20.32	20.38	20.53								
18	64QAM	1	0	20.16	20.19	20.19								
18	64QAM	1	37	20.16	20.18	20.18								
18	64QAM	1	74	20.10	20.15	20.15	21	1.6						
18	64QAM	36	0	20.30	20.40	20.35								
18	64QAM	36	20	20.11	20.15	20.35								
18	64QAM	75	0	20.28	20.39	20.56								
18	256QAM	1	0	18.53	18.60	18.80	19	3.6						
18	256QAM	1	37	18.57	18.91	18.91								
18	256QAM	1	74	18.62	18.86	18.94								
18	256QAM	50	0	18.56	18.76	18.85								
18	256QAM	50	24	18.35	18.52	18.80	19	3.6						
18	256QAM	50	50	18.48	18.62	18.98								
18	256QAM	75	0	18.49	18.63	18.94								
Channel														
Frequency (MHz)														
18	QPSK	1	0	21.15	21.28	21.27	22.6	0						
18	QPSK	1	25	20.97	21.07	21.08								
18	QPSK	1	49	21.17	21.28	21.18								
18	QPSK	25	0	21.07	21.18	21.28								
18	QPSK	25	12	20.90	20.96	20.89	22.6	0						
18	QPSK	25	25	21.10	21.18	21.14								
18	QPSK	50	0	21.09	21.22	21.19								
18	16QAM	1	0	21.09	21.22	21.19								
18	16QAM	1	25	21.03	21.06	20.95	22.5	0.1						
18	16QAM	1	49	21.06	21.13	21.08								
18	16QAM	25	0	20.21	20.43	20.44								
18	16QAM	25	12	20.19	20.18	20.10								
18	16QAM	36	0	20.12	20.30	20.38	22	0.6						
18	16QAM	36	12	20.12	20.30	20.38								
18	16QAM	50	0	20.23	20.37	20.48								
18	64QAM	1	0	20.13	20.21	20.09								
18	64QAM	1	25	20.42	20.42	20.18	22	0.6						
18	64QAM	1	49	20.08	20.19	20.19								
18	64QAM	25	0	20.30	20.47	20.50								
18	64QAM	25	12	20.30	20.38	20.38								
18	64QAM	25	25	20.06	20.20	20.28	21	1.6						
18	64QAM	50	0	20.25	20.38	20.59								
18	256QAM	1	0	18.72	18.82	18.85								
18	256QAM	1	25	18.69	18.93	18.92								
18	256QAM	1	49	18.65	18.76	18.85	19	3.6						
18	256QAM	25	0	18.44	18.62	18.85								
18	256QAM	25	12	18.51	18.58	18.74								
18	256QAM	25	25	18.37	18.70	18.93								
18	256QAM	50	0	18.46	18.65	18.83	19	3.6						
18	256QAM	50	0	18.46	18.65	18.83								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.24	21.35	21.35	22.6	0						
5	QPSK	1	12	20.92	21.13	21.04								
5	QPSK	1	24	21.17	21.25	21.15								
5	QPSK	12	0	21.03	21.17	21.08								
5	QPSK	12	7	20.91	20.95	20.89	22.6	0						
5	QPSK	12	13	21.07	21.20	21.12								
5	QPSK	25	0	21.08	21.15	21.03								
5	16QAM	1	0	21.09	21.15	21.17								
5	16QAM	1	12	21.05	21.03	20.91	22.5	0.1						
5	16QAM	1	24	21.14	21.17	21.04								
5	16QAM	12	0	20.26	20.37	20.43								
5	16QAM	12	7	20.27	20.31	20.11								
5	16QAM	12	13	20.07	20.14	20.08	22	0.6						
5	16QAM	25	0	20.29	20.39	20.44								
5	64QAM	1	0	20.22	20.25	20.11								
5	64QAM	1	12	20.09	20.11	20.11								
5	64QAM	1	24	20.18	20.11	20.18	21	1.6						
5	64QAM	12	0	20.22	20.36	20.49								
5	64QAM	12	7	20.30	20.29	20.08								
5	64QAM	12	13	20.03	20.35	20.20								
5	64QAM	25	0	20.24	20.25	20.12	19	3.6						
5	256QAM	1	0	18.59	18.86	18.88								
5	256QAM	1	12	18.59	18.96	18.96								
5	256QAM	1	24	18.62	18.84	18.93	19	3.6						
5	256QAM	12	0	18.49	18.48	18.62								
5	256QAM	12	7	18.43	18.61	18.75								
5	256QAM	12	13	18.44	18.42	18.60								
5	256QAM	25	0	18.55	18.62	18.43	19	3.6						
5	256QAM	25	0	18.55	18.62	18.43								
Channel														
Frequency (MHz)														
3	QPSK	1	0	21.21	21.31	21.31	22.6	0						
3	QPSK	1	8	20.91	21.08	21.07								
3	QPSK	1	16	21.16	21.24	21.13								
3	QPSK	8	0	21.08	21.16	21.23								
3	QPSK	8	4	20.87	20.98	20.88	22.6	0						
3	QPSK	8	12	21.12	21.19	21.11								
3	QPSK	16	0	21.10	21.21	21.21								
3	16QAM	1	0	21.07	21.24	21.19								
3	16QAM	1	8	20.99	21.04	21.04	22.5	0.1						
3	16QAM	1	16	21.16	21.21	21.17								
3	16QAM	8	0	20.19	20.45	20.49								
3	16QAM	8	4	20.14	20.26	20.17								
3	16QAM	8	7	20.20	20.38	20.30	22	0.6						
3	16QAM	16	0	20.48	20.50	20.48								
3	16QAM	16	8	20.19	20.24	20.10								
3	64QAM	1	8	20.14	20.28	20.15								
3	64QAM	1	16	20.16	20.30	20.20	22	0.6						
3	64QAM	8	0	20.34	20.39	20.49								
3	64QAM	8	4	20.16	20.32	20.42								
3	64QAM	8	7	20.24	20.37	20.27								
3	64QAM	16	0	20.33	20.34	20.13	19	3.6						
3	256QAM	1	0	18.73	18.81	18.86								
3	256QAM	1	8	18.64	18.84	18.74								
3	256QAM	1	16	18.64	18.86	18.80	19	3.6						
3	256QAM	8	0	18.60	18.72	18.58								
3	256QAM	8	4	18.42	18.60	18.68								
3	256QAM	8	7	18.26	18.53	18.67								
3	256QAM	16	0	18.56	18.52	18.57	19	3.6						
3	256QAM	16	0	18.56	18.52	18.57								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	21.20	21.24	21.22	22.6	0						
1.4	QPSK	1	4	21.04	21.14	21.12								
1.4	QPSK	1	8	21.18	21.22	21.22								
1.4	QPSK	3	0	21.04	21.21	21.25								
1.4	QPSK	3	0	20.85	20.99	20.88	22.6	0						
1.4	QPSK	3	2	21.09	21.21	21.20								
1.4	QPSK	3	6	21.15	21.12	21.19								
1.4	QPSK	6	0	21.18	21.31	21.24								
1.4	16QAM	1	5	20.93	21.14	21.08	22.5	0.1						
1.4	16QAM	1	11	21.19	21.21	21.11								
1.4	16QAM	3	1	21.02	21.18	21.27								
1.4	16QAM	3	3	20.86	21.02	20.97								
1.4	16QAM	1	8	20.19	20.41	20.45	22	0.6						
1.4	16QAM	1	16	20.18	20.11	20.11								
1.4	16QAM	8	0	20.16	20.29	20.19								
1.4	16QAM	8	4	20.15	20.25	20.19								
1.4	16QAM	8	7	20.18	20.19	20.10	22	0.6						
1.4	16QAM	16	0	20.33	20.30	20.19								
1.4	64QAM	1	8	20.15	20.32	20.25								
1.4	64QAM</													

Band 2 Ant3 DSI5												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turnup time (sec)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.35	20.53	20.59	21.4	0				
20	QPSK	1	49	20.16	20.34	20.40						
20	QPSK	1	99	20.35	20.51	20.52						
20	QPSK	50	0	20.03	20.23	20.60						
20	QPSK	50	24	19.75	19.98	20.17	21.4	0				
20	QPSK	50	50	19.88	20.09	19.95						
20	QPSK	100	0	19.93	19.93	19.98						
20	16QAM	50	0	19.89	19.99	20.04						
20	16QAM	1	49	19.75	19.72	19.96	21.4	0				
20	16QAM	1	99	19.85	20.07	19.89						
20	16QAM	50	0	20.21	20.36	20.19						
20	16QAM	50	24	20.10	20.28	20.92						
20	16QAM	50	50	20.07	20.24	20.90	21.4	0				
20	16QAM	100	0	20.09	20.30	20.12						
20	64QAM	1	0	20.21	20.36	20.19						
20	64QAM	1	49	20.12	20.26	20.91						
20	64QAM	50	0	20.07	20.24	20.99	21.4	0				
20	64QAM	50	24	20.16	20.40	20.94						
20	64QAM	50	50	20.06	20.27	20.91						
20	64QAM	100	0	20.11	20.27	20.98						
20	256QAM	1	49	19.32	19.92	19.35	20	1.4				
20	256QAM	1	99	19.28	19.47	19.27						
20	256QAM	50	0	19.16	19.33	19.36						
20	256QAM	50	24	19.23	19.11	19.48						
20	256QAM	50	50	19.00	19.18	19.40	20	1.4				
20	256QAM	100	0	19.25	19.08	19.37						
Channel												
Frequency (MHz)												
16	QPSK	1	0	20.22	20.48	20.31	21.4	0				
16	QPSK	1	37	20.04	20.24	19.98						
16	QPSK	1	74	20.29	20.41	20.27						
16	QPSK	36	0	19.94	20.17	19.92						
16	QPSK	36	39	19.85	19.98	19.92	21.4	0				
16	QPSK	75	0	19.92	20.15	19.95						
16	16QAM	36	0	19.76	19.96	19.72						
16	16QAM	1	37	19.97	19.88	19.97						
16	16QAM	1	74	19.16	19.36	19.12	21.4	0				
16	16QAM	36	0	20.13	20.35	20.34						
16	16QAM	36	20	20.07	20.18	19.98						
16	16QAM	36	20	19.92	20.04	19.99						
16	16QAM	75	0	19.97	20.31	20.07	21.4	0				
16	64QAM	1	0	20.10	20.24	20.39						
16	64QAM	1	37	20.04	20.29	20.07						
16	64QAM	1	74	20.17	20.17	20.90						
16	64QAM	36	0	19.96	20.25	20.07	21.4	0				
16	64QAM	36	39	19.85	19.99	19.94						
16	64QAM	36	39	19.98	20.15	19.91						
16	64QAM	75	0	20.08	20.15	20.95						
16	256QAM	1	37	19.24	19.85	19.90	20	1.4				
16	256QAM	1	74	19.23	19.26	19.96						
16	256QAM	36	0	19.26	19.26	19.96						
16	256QAM	36	20	19.98	19.95	19.39						
16	256QAM	36	39	19.83	19.86	19.19	20	1.4				
16	256QAM	75	0	19.15	19.31	19.37						
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.12	20.48	20.31			21.4	0		
10	QPSK	1	25	20.12	20.29	19.99						
10	QPSK	1	49	20.32	20.47	20.19						
10	QPSK	19	0	19.94	20.13	19.97						
10	QPSK	25	12	19.68	19.86	19.74	21.4	0				
10	QPSK	25	25	19.83	20.06	19.89						
10	QPSK	80	0	19.89	19.94	19.71						
10	16QAM	1	0	19.86	19.94	19.71						
10	16QAM	1	25	19.65	19.87	19.57	21.4	0				
10	16QAM	1	49	19.76	19.96	19.64						
10	16QAM	25	0	20.16	20.34	20.19						
10	16QAM	25	12	20.05	20.16	19.89						
10	16QAM	30	0	20.01	20.20	19.94	21.4	0				
10	16QAM	30	12	20.00	20.23	20.00						
10	16QAM	50	0	20.03	20.23	20.00						
10	16QAM	1	0	20.16	20.25	20.96						
10	64QAM	1	49	20.04	20.21	19.86	21.4	0				
10	64QAM	25	0	20.00	20.24	20.94						
10	64QAM	25	12	20.05	20.24	20.91						
10	64QAM	25	25	19.94	20.20	20.92						
10	64QAM	50	0	19.99	20.19	20.92	21.4	0				
10	64QAM	50	12	20.05	20.32	20.01						
10	256QAM	1	0	19.05	19.11	19.91						
10	256QAM	1	25	19.11	19.97	19.94						
10	256QAM	1	49	19.08	19.94	19.97	20	1.4				
10	256QAM	1	74	19.23	19.26	19.96						
10	256QAM	25	0	19.13	19.22	19.95						
10	256QAM	25	12	19.19	19.92	19.34						
10	256QAM	25	25	19.84	19.91	19.93	20	1.4				
10	256QAM	50	0	19.24	19.30	19.99						
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.12	20.48	20.31	21.4	0				
5	QPSK	1	12	20.07	20.29	20.00						
5	QPSK	1	24	20.26	20.49	20.26						
5	QPSK	12	0	19.94	20.12	19.95						
5	QPSK	12	7	19.68	19.83	19.70	21.4	0				
5	QPSK	12	13	19.75	19.95	19.92						
5	QPSK	25	0	19.83	20.13	19.96						
5	16QAM	1	0	19.85	19.95	19.79						
5	16QAM	1	12	19.68	19.85	19.54	21.4	0				
5	16QAM	1	24	20.11	20.21	20.18						
5	16QAM	12	0	20.05	20.31	20.18						
5	16QAM	12	7	20.02	20.21	19.90						
5	16QAM	12	13	20.02	20.13	19.96	21.4	0				
5	16QAM	25	0	20.05	20.28	19.99						
5	64QAM	1	0	20.14	20.31	20.98						
5	64QAM	1	12	20.03	20.22	19.99						
5	64QAM	1	24	19.95	20.21	19.93	21.4	0				
5	64QAM	12	0	20.05	20.26	20.93						
5	64QAM	12	7	20.06	20.36	20.13						
5	64QAM	12	13	19.94	20.19	19.94						
5	256QAM	1	0	19.00	19.15	19.93	20	1.4				
5	256QAM	1	12	19.11	19.92	19.10						
5	256QAM	1	24	19.01	19.33	19.12						
5	256QAM	12	0	19.22	19.31	19.23	20	1.4				
5	256QAM	12	7	19.28	19.34	19.25						
5	256QAM	12	13	19.27	19.12	19.29						
5	256QAM	25	0	19.13	19.12	19.83	20	1.4				
5	256QAM	25	12	19.19	19.12	19.95						
5	256QAM	25	25	19.84	19.91	19.93						
Channel												
Frequency (MHz)												
3	QPSK	1	0	20.12	20.48	20.31	21.4	0				
3	QPSK	1	6	20.04	20.26	20.01						
3	QPSK	1	12	20.27	20.49	20.26						
3	QPSK	6	0	19.92	20.17	19.92						
3	QPSK	6	4	19.67	19.88	19.75	21.4	0				
3	QPSK	6	10	19.80	19.94	19.93						
3	QPSK	15	0	19.89	20.14	19.94						
3	16QAM	6	0	19.86	19.94	19.71						
3	16QAM	1	6	19.62	19.67	19.57	21.4	0				
3	16QAM	1	12	19.69	19.70	19.59						
3	16QAM	1	14	19.73	20.00	19.76						
3	16QAM	6	0	19.70	19.95	19.74						
3	16QAM	6	4	19.67	20.15	19.91	21.4	0				
3	16QAM	6	10	19.81	20.05	19.98						
3	16QAM	15	0	19.91	20.15	19.96						
3	16QAM	15	6	19.84	20.23	20.01						
3	16QAM	1	6	20.07	20.24	20.05	21.4	0				
3	64QAM	1	6	20.08	20.18	19.95						
3	64QAM	6	0	20.14	20.31	20.98						
3	64QAM	6	4	20.06	20.24	20.01						
3	64QAM	6	4	20.05	20.30	20.10	21.4	0				
3	64QAM	15	0	20.05	20.23	20.05						
3	256QAM	1	6	18.99	19.16	19.21						
3	256QAM	1	12	19.02	19.18	19.21						
3	256QAM	1	14	19.10	19.28	19.11	20	1.4				
3	256QAM	6	0	19.00	19.31	19.18						
3	256QAM	6	4	19.01	19.48	19.18						
3	256QAM	15	0	18.92	19.90	19.31						
3	256QAM	15	6	19.06	19.11	19.93	20	1.4				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	20.21	20.45	20.29	21.4	0				
1.4	QPSK	1	6	20.05	20.28	20.01						
1.4	QPSK	1	6	20.26	20.42	20.26						
1.4	QPSK	3	0	19.93	20.10	19.97						
1.4	QPSK	3	1	19.64	19.83	19.72	21.4	0				
1.4	QPSK	3	3	19.85	19.95	19.81						
1.4	QPSK	6	0	19.83	20.13	19.94						
1.4	QPSK	6	2	19.77	20.04	19.92						
1.4	16QAM	1	6	19.66	19.79	19.96	21.4	0				
1.4	16QAM	3	0	19.80	19.97	19.96						
1.4	16QAM	3	1	19.84	20.01	19.98						
1.4	16QAM	6	0	20.08	20.31	20.09						
1.4	16QAM	6	2	19.72	19.99	19.96	21.4	0				
1.4	16QAM	6	3	19.76	20.07	19.93						
1.4	16QAM	3	0	19.99	20.17	19.93						
1.4	16QAM	3	0	19.99	20.17	19.93						
1.4	16QAM	6	0	20.06	20.19	20.21	21.4	0				
1.4	16QAM	6	2	19.84	20.25	19.95						
1.4	16QAM	6	3	19.16	19.36	19.95						
1.4	16QAM	3	0	19.07	19.39	19.11						
1.4	256QAM	1	6	19.07	19.3							



Reduced Power Mode for Other PA DSIs Simultaneous

Band 2 Ant0 DSI5 Simultaneous														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up time (ms)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	18.98	19.13	19.14	20.4	0						
20	QPSK	1	49	18.08	18.17	18.17								
20	QPSK	1	99	18.02	18.15	18.07								
20	QPSK	50	0	18.01	18.15	18.01								
20	QPSK	50	24	18.01	18.10	18.06	20.4	0						
20	QPSK	50	50	18.04	18.06	18.00								
20	QPSK	100	0	18.04	18.03	18.08								
20	16QAM	1	0	18.95	19.07	18.99								
20	16QAM	1	49	18.04	18.07	18.09	20.4	0						
20	16QAM	1	99	18.09	18.09	18.07								
20	16QAM	50	0	18.96	19.00	18.93								
20	16QAM	50	24	18.98	18.95	18.96								
20	16QAM	50	50	18.97	18.98	18.91	20.4	0						
20	16QAM	100	0	18.95	19.02	18.87								
20	256QAM	1	0	19.09	19.18	19.13								
20	256QAM	1	49	19.07	19.13	19.09								
20	256QAM	1	99	19.13	19.15	19.13	20.4	0						
20	256QAM	50	0	18.97	19.07	19.04								
20	256QAM	50	24	18.93	19.15	19.01								
20	256QAM	50	24	18.93	19.15	19.01								
20	256QAM	100	0	18.99	19.02	18.95	20.4	0						
20	256QAM	100	0	18.99	19.02	18.95								
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.95	19.09	19.04	20.4	0						
15	QPSK	1	37	19.02	19.11	19.04								
15	QPSK	1	74	18.98	19.12	18.96								
15	QPSK	36	0	18.95	19.05	18.94								
15	QPSK	36	20	18.98	18.99	18.92	20.4	0						
15	QPSK	36	20	18.98	18.99	18.92								
15	QPSK	75	0	18.82	18.99	18.88								
15	16QAM	1	0	18.85	19.01	18.95								
15	16QAM	1	37	18.90	18.99	18.91	20.4	0						
15	16QAM	1	74	18.78	18.83	18.98								
15	16QAM	36	0	18.93	18.87	18.88								
15	16QAM	36	20	18.96	18.95	18.93								
15	16QAM	36	39	18.78	18.83	18.85	20.4	0						
15	16QAM	75	0	18.84	18.95	18.84								
15	64QAM	1	74	18.81	18.91	18.81								
15	64QAM	1	37	18.98	19.03	18.95								
15	64QAM	36	0	18.96	19.02	18.96	20.4	0						
15	64QAM	36	20	18.70	18.95	18.74								
15	64QAM	36	39	18.87	18.90	18.74								
15	64QAM	75	0	18.76	18.93	18.88								
15	64QAM	75	0	18.76	18.93	18.88	20.4	0						
15	64QAM	75	0	18.76	18.93	18.88								
15	256QAM	1	0	19.00	19.05	19.01								
15	256QAM	1	37	18.95	19.08	19.09								
15	256QAM	1	74	18.83	18.93	18.83	20.4	0						
15	256QAM	36	0	18.92	19.00	18.93								
15	256QAM	36	20	18.81	19.07	18.91								
15	256QAM	36	20	18.81	19.07	18.91								
15	256QAM	75	0	18.93	19.04	18.74	20.4	0						
15	256QAM	75	0	18.96	18.89	18.83								
Channel														
Frequency (MHz)														
16	QPSK	1	0	18.94	19.09	19.06	20.4	0						
16	QPSK	1	25	18.94	19.08	19.04								
16	QPSK	1	49	18.96	19.05	18.99								
16	QPSK	25	0	18.96	19.05	18.99								
16	QPSK	25	12	18.95	18.98	18.89	20.4	0						
16	QPSK	25	12	18.95	18.98	18.89								
16	QPSK	50	0	18.91	18.94	18.91								
16	QPSK	50	0	18.91	18.95	18.89								
16	16QAM	1	0	18.91	18.94	18.91	20.4	0						
16	16QAM	1	24	18.92	18.96	18.93								
16	16QAM	1	49	18.78	18.85	18.85								
16	16QAM	1	25	18.82	18.78	18.82								
16	16QAM	25	0	18.87	18.93	18.83	20.4	0						
16	16QAM	25	0	18.87	18.93	18.83								
16	16QAM	25	12	18.83	18.78	18.82								
16	16QAM	50	0	18.83	18.97	18.74								
16	64QAM	1	0	18.87	18.97	18.87	20.4	0						
16	64QAM	1	49	18.81	18.95	19.02								
16	64QAM	25	0	18.85	18.95	18.85								
16	64QAM	25	12	18.78	19.00	18.81								
16	64QAM	25	25	18.90	18.96	18.88	20.4	0						
16	64QAM	25	25	18.90	18.96	18.88								
16	64QAM	50	0	18.85	18.87	18.83								
16	256QAM	1	0	19.04	19.02	19.07								
16	256QAM	1	12	19.00	19.07	19.11	20.4	0						
16	256QAM	1	12	19.00	19.07	19.11								
16	256QAM	12	0	18.92	18.97	18.96								
16	256QAM	12	7	18.91	19.02	18.96								
16	256QAM	25	0	18.89	19.04	18.87	20.4	0						
16	256QAM	25	0	18.89	19.04	18.87								
16	256QAM	25	12	18.89	19.04	18.87								
16	256QAM	25	12	18.89	19.04	18.87								
16	256QAM	50	0	18.93	19.01	18.83	20.4	0						
16	256QAM	50	0	18.93	19.01	18.83								
Channel														
Frequency (MHz)														
3	QPSK	1	0	18.87	19.00	19.03	20.4	0						
3	QPSK	1	8	19.00	19.13	19.13								
3	QPSK	1	16	18.97	19.02	19.01								
3	QPSK	8	0	18.96	19.00	18.97								
3	QPSK	8	4	18.93	18.98	18.93	20.4	0						
3	QPSK	8	4	18.93	18.98	18.93								
3	QPSK	16	0	18.83	18.91	18.91								
3	16QAM	1	0	18.87	18.97	18.91								
3	16QAM	1	8	19.04	19.04	18.96	20.4	0						
3	16QAM	1	16	18.94	18.92	18.95								
3	16QAM	8	0	18.84	18.92	18.91								
3	16QAM	8	4	18.83	18.90	18.88								
3	16QAM	8	7	18.74	18.80	18.84	20.4	0						
3	16QAM	16	0	18.85	18.91	18.74								
3	16QAM	16	8	18.75	19.04	18.86								
3	16QAM	8	8	18.97	18.99	18.93								
3	16QAM	8	14	18.88	18.93	18.91	20.4	0						
3	16QAM	8	14	18.88	18.93	18.91								
3	16QAM	16	0	18.75	18.89	18.85								
3	256QAM	1	0	19.04	19.12	18.97								
3	256QAM	1	0	19.04	19.12	18.97	20.4	0						
3	256QAM	1	14	18.95	19.05	19.05								
3	256QAM	8	0	18.89	19.00	18.94								
3	256QAM	8	7	18.84	19.04	18.87								
3	256QAM	8	7	18.86	18.96	18.72	20.4	0						
3	256QAM	15	0	18.87	18.94	18.92								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	18.88	19.12	19.03	20.4	0						
1.4	QPSK	1	8	19.00	19.13	19.13								
1.4	QPSK	1	16	18.97	19.02	19.01								
1.4	QPSK	3	0	18.97	19.09	18.94								
1.4	QPSK	3	3	18.97	19.08	18.87	20.4	0						
1.4	QPSK	3	3	18.97	19.08	18.87								
1.4	QPSK	6	0	18.91	18.89	18.86								
1.4	QPSK	6	0	18.91	18.89	18.86								
1.4	QPSK	1	3	19.02	19.08	19.02	25.6	0						
1.4	16QAM	1	3	19.02	19.08	19.02								
1.4	16QAM	1	5	18.78	19.06	18.98								
1.4	16QAM	1	5	18.78	19.06	18.98								
1.4	16QAM	3	3	18.80	18.96	18.86	20.4	0						
1.4	16QAM	3	3	18.78	18.82	18.84								
1.4	16QAM	3	5	18.96	19.06	18.96								
1.4	16QAM	3	5	18.96	19.06	18.96								
1.4	16QAM	1	0	18.81	19.11	19.05	20.4	0						
1.4	16QAM	1	3	18.92	19.04	19.03								
1.4	16QAM	1	5	18.79	19.02	18.97								
1.4	16QAM	3	0	18.80	18.95	18.80								
1.4	16QAM	3	0	18.83	19.03	18.83	20.4	0						
1.4	16QAM	3	0	18.83	19.03	18.83								
1.4	16QAM	3	3	18.73	18.95	18.86								
1.4	16QAM	3	3	18.73	18.95	18.86								
1.4	16QAM	1	0	18.93	19.07	19.00	20.4	0						
1.4	16QAM	1	0	18.93	19.07	19.00								
1.4	16QAM	1	3	18.93	19.04	18.96								
1.4	16QAM	1	3	18.93	19.04	18.96								

Band 2 Ant1 DS15 Simultaneous														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	APR3 (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	15.29	15.44	15.17	16.7	0						
20	QPSK	1	49	15.15	15.24	15.09								
20	QPSK	1	99	14.98	15.28	15.18	16.7	0						
20	QPSK	50	0	15.22	15.34	15.21								
20	QPSK	50	24	15.07	15.11	15.03	16.7	0						
20	QPSK	50	50	14.98	14.96	14.89								
20	QPSK	100	0	15.08	15.25	15.15	16.7	0						
20	16QAM	100	0	15.20	15.25	15.20								
20	16QAM	1	49	14.93	15.03	14.94	16.7	0						
20	16QAM	1	99	14.97	15.01	15.05								
20	16QAM	50	0	15.16	15.20	15.09	16.7	0						
20	16QAM	50	24	15.08	15.07	14.93								
20	16QAM	50	50	14.98	14.98	14.90	16.7	0						
20	16QAM	100	0	15.04	15.25	15.00								
20	64QAM	1	0	15.27	15.31	15.17	16.7	0						
20	64QAM	1	49	15.00	14.96	14.83								
20	64QAM	1	99	14.96	15.24	15.03	16.7	0						
20	64QAM	50	24	15.07	15.06	14.99								
20	64QAM	50	50	15.07	14.98	15.10	16.7	0						
20	64QAM	100	0	15.06	15.22	15.11								
20	256QAM	1	49	14.93	15.05	14.94	16.7	0						
20	256QAM	1	99	15.02	15.21	15.17								
20	256QAM	50	0	15.17	15.32	15.28	16.7	0						
20	256QAM	50	24	14.98	15.03	14.99								
20	256QAM	50	50	14.95	14.92	14.90	16.7	0						
20	256QAM	100	0	15.08	15.14	15.07								
Channel														
Frequency (MHz)														
15	QPSK	1	0	15.17	15.42	15.11	16.7	0						
15	QPSK	1	37	15.08	15.00	15.03								
15	QPSK	1	74	14.94	15.20	15.13	16.7	0						
15	QPSK	36	0	15.10	15.28	15.12								
15	QPSK	36	20	14.95	14.97	14.94	16.7	0						
15	QPSK	36	39	14.94	14.84	14.82								
15	QPSK	75	0	14.96	15.16	15.12	16.7	0						
15	16QAM	75	0	15.11	15.16	15.13								
15	16QAM	1	37	14.80	14.96	14.93	16.7	0						
15	16QAM	1	74	14.87	14.96	14.92								
15	16QAM	36	0	15.13	15.09	15.01	16.7	0						
15	16QAM	36	20	15.06	14.94	14.90								
15	16QAM	36	39	14.96	14.88	14.76	16.7	0						
15	16QAM	75	0	14.93	15.20	14.95								
15	64QAM	1	0	15.13	15.21	15.09	16.7	0						
15	64QAM	1	37	14.86	14.88	14.89								
15	64QAM	1	74	14.90	15.20	14.97	16.7	0						
15	64QAM	36	0	15.00	15.19	14.99								
15	64QAM	36	20	14.95	14.96	14.96	16.7	0						
15	64QAM	36	39	15.00	14.77	15.00								
15	64QAM	75	0	14.94	15.18	15.08	16.7	0						
15	256QAM	1	0	15.10	15.20	15.10								
15	256QAM	1	37	14.88	15.02	14.89	16.7	0						
15	256QAM	1	74	14.96	15.07	15.06								
15	256QAM	36	20	14.96	15.07	15.06	16.7	0						
15	256QAM	36	39	14.96	14.99	14.98								
15	256QAM	75	0	14.91	14.87	14.77	16.7	0						
15	256QAM	75	0	14.98	14.82	14.80								
Channel														
Frequency (MHz)														
15	QPSK	1	0	15.05	14.80	14.95	16.7	0						
15	QPSK	1	25	15.08	15.02	15.03								
15	QPSK	1	49	14.86	15.23	15.14	16.7	0						
15	QPSK	25	0	15.07	15.03	15.06								
15	QPSK	25	12	14.95	15.01	14.94	16.7	0						
15	QPSK	25	25	15.00	14.91	14.85								
15	QPSK	50	0	15.08	15.09	15.09	16.7	0						
15	16QAM	1	0	15.10	15.21	15.07								
15	16QAM	1	26	14.86	14.89	14.95	16.7	0						
15	16QAM	1	49	14.89	15.21	14.93								
15	16QAM	25	0	15.02	15.25	15.01	16.7	0						
15	16QAM	25	12	15.03	15.03	15.05								
15	16QAM	25	26	14.99	14.83	15.05	16.7	0						
15	16QAM	50	0	14.98	15.11	14.99								
15	256QAM	1	0	15.05	15.15	15.05	16.7	0						
15	256QAM	1	26	14.87	15.00	14.82								
15	256QAM	1	49	14.88	15.14	15.06	16.7	0						
15	256QAM	25	0	15.09	15.27	15.15								
15	256QAM	25	12	14.96	14.98	14.79	16.7	0						
15	256QAM	25	26	14.88	14.82	14.80								
15	256QAM	50	0	14.98	15.12	14.94	16.7	0						
15	256QAM	50	0	14.98	15.12	14.94								
Channel														
Frequency (MHz)														
5	QPSK	1	0	15.20	15.36	15.12	16.7	0						
5	QPSK	1	12	15.08	14.99	15.03								
5	QPSK	1	24	14.96	15.16	15.07	16.7	0						
5	QPSK	12	0	15.09	15.29	15.15								
5	QPSK	12	7	14.96	15.08	14.94	16.7	0						
5	QPSK	24	0	14.95	15.14	15.07								
5	QPSK	24	12	14.95	15.14	15.07	16.7	0						
5	16QAM	1	0	15.09	15.28	15.11								
5	16QAM	1	12	14.94	15.06	14.99	16.7	0						
5	16QAM	1	24	14.92	14.97	15.00								
5	16QAM	12	0	15.08	15.07	15.08	16.7	0						
5	16QAM	12	7	14.97	14.93	14.88								
5	16QAM	12	19	14.89	14.93	14.78	16.7	0						
5	16QAM	25	0	14.97	15.19	14.91								
5	16QAM	25	12	15.00	15.18	15.09	16.7	0						
5	16QAM	25	19	14.88	14.90	14.90								
5	16QAM	50	0	14.98	15.20	14.97	16.7	0						
5	256QAM	1	0	15.05	15.15	15.05								
5	256QAM	1	12	14.93	14.75	15.03	16.7	0						
5	256QAM	1	24	14.95	15.19	14.98								
5	256QAM	12	0	15.09	15.24	15.16	16.7	0						
5	256QAM	12	7	14.95	15.02	14.95								
5	256QAM	12	19	14.90	14.90	14.81	16.7	0						
5	256QAM	25	0	14.97	15.10	14.83								
5	256QAM	25	12	15.00	15.18	15.09	16.7	0						
5	256QAM	25	19	14.88	14.88	14.80								
5	256QAM	50	0	15.01	15.02	14.94	16.7	0						
5	256QAM	50	0	15.01	15.02	14.94								
Channel														
Frequency (MHz)														
3	QPSK	1	0	15.24	15.38	15.12	16.7	0						
3	QPSK	1	8	15.12	14.98	14.99								
3	QPSK	1	16	14.93	15.20	15.11	16.7	0						
3	QPSK	8	0	15.09	15.32	15.16								
3	QPSK	8	4	15.04	15.02	15.03	16.7	0						
3	QPSK	8	7	15.00	14.92	14.83								
3	QPSK	15	0	14.95	15.16	15.08	16.7	0						
3	16QAM	1	0	15.16	15.19	15.12								
3	16QAM	1	8	14.86	14.94	14.97	16.7	0						
3	16QAM	1	16	14.90	14.96	14.98								
3	16QAM	8	0	15.10	15.09	15.01	16.7	0						
3	16QAM	8	4	14.95	15.05	14.89								
3	16QAM	15	0	14.85	14.92	14.78	16.7	0						
3	16QAM	15	0	14.99	15.11	14.88								
3	64QAM	1	0	15.16	15.27	15.14	16.7	0						
3	64QAM	1	8	14.87	14.97	14.82								
3	64QAM	1	16	14.93	15.10	14.93	16.7	0						
3	64QAM	8	0	15.03	15.29	15.08								
3	64QAM	8	4	14.96	14.93	14.90	16.7	0						
3	64QAM	8	7	14.92	14.88	14.83								
3	64QAM	15	0	15.04	15.19	14.99	16.7	0						
3	256QAM	1	0	15.06	15.12	15.05								
3	256QAM	1	8	14.97	15.04	14.97	16.7	0						
3	256QAM	1	16	14.94	15.09	15.05								
3	256QAM	8	0	15.14	15.26	15.14	16.7	0						
3	256QAM	8	4	15.00	14.84	14.82								
3	256QAM	8	7	14.83	14.79	14.78	16.7	0						
3	256QAM	15	0	15.05	15.05	14.97								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	15.12	14.98	14.99	16.7	0						
1.4	QPSK	1	8	15.03	15.00	15.01								
1.4	QPSK	1	16	14.92	15.21	15.11	16.7	0						
1.4	QPSK	3	0	15.08	15.22	15.18								
1.4	QPSK	3	8	14.98	15.03	14.98	16.7	0						
1.4	QPSK	3	16	14.95	15.16	15.07								
1.4	QPSK	8	0	15.04	15.18	15.03	16.7	0						
1.4	QPSK	8	4	15.02	15.03	14.93								
1.4	QPSK	15	0	14.80	14.95	14.86	16.7	0						
1.4	QPSK	15	0	14.93	15.06	14.90								
1.4	16QAM	1	0	15.03	14.96	15.00	16.7	0						
1.4	16QAM	1	8	14.89	14.92	14.88								
1.4	16QAM	1	16	14.93	15.07	14.94	16.7	0						
1.4	16QAM	3	0	15.03	15.18	15.03								
1.4	16QAM	3	8	14.87	14.88	14.89	16.7	0						
1.4	16QAM	3	16	14.87	15.21	14.96								
1.4	64QAM	1	0	15.17	15.23	15.11	16.7	0						
1.4	64QAM	1	8	14.87	14.96	14.89								
1.4	64QAM	1	16	14.87	15.01</									

Band 2 Ant2 DS15 Simultaneous														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	APR3 (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.51	21.73	21.68	21.8	0						
20	QPSK	1	49	21.68	21.72	21.69								
20	QPSK	1	99	21.66	21.73	21.74								
20	QPSK	50	0	21.45	21.66	21.60								
20	QPSK	50	24	21.65	21.69	21.68	21.8	0						
20	QPSK	50	50	21.61	21.64	21.65								
20	QPSK	100	0	21.55	21.60	21.56								
20	16QAM	50	0	21.40	21.72	21.61								
20	16QAM	1	49	21.61	21.65	21.61	21.8	0						
20	16QAM	1	99	21.67	21.63	21.71								
20	16QAM	50	0	21.35	21.54	21.50								
20	16QAM	50	24	21.32	21.44	21.46								
20	16QAM	50	50	21.31	21.37	21.36	21	0.8						
20	16QAM	100	0	21.34	21.39	21.35								
20	64QAM	1	0	21.53	21.63	21.72								
20	64QAM	1	49	21.48	21.62	21.70								
20	64QAM	50	0	20.39	20.52	20.55	21	0.8						
20	64QAM	50	24	20.40	20.41	20.38								
20	64QAM	50	50	20.21	20.38	20.40								
20	64QAM	100	0	20.44	20.52	20.59								
20	256QAM	1	0	18.76	18.96	18.99	19	2.8						
20	256QAM	1	49	18.72	18.91	18.96								
20	256QAM	1	99	18.69	18.82	18.89								
20	256QAM	50	0	18.76	18.96	18.99								
20	256QAM	50	24	18.61	18.71	18.87	19	2.8						
20	256QAM	50	50	18.63	18.79	18.88								
20	256QAM	100	0	18.71	18.87	18.94								
20	256QAM	100	0	18.71	18.87	18.94								
Channel														
Frequency (MHz)														
15	QPSK	1	0	21.56	21.69	21.60	21.8	0						
15	QPSK	1	37	21.67	21.70	21.62								
15	QPSK	1	74	21.63	21.67	21.66								
15	QPSK	36	0	21.42	21.55	21.51								
15	QPSK	36	0	21.56	21.46	21.46	21.8	0						
15	QPSK	36	39	21.49	21.61	21.59								
15	QPSK	75	0	21.46	21.60	21.49								
15	QPSK	75	0	21.30	21.60	21.53								
15	16QAM	1	37	21.51	21.56	21.58	21.8	0						
15	16QAM	1	74	21.56	21.60	21.59								
15	16QAM	36	0	21.32	21.42	21.42								
15	16QAM	36	20	21.24	21.39	21.37								
15	16QAM	36	20	21.24	21.39	21.37	21.8	0						
15	16QAM	75	0	21.20	21.33	21.26								
15	16QAM	75	0	21.20	21.33	21.26								
15	64QAM	1	0	21.39	21.56	21.46								
15	64QAM	1	37	21.56	21.60	21.59	21	0.8						
15	64QAM	1	74	21.39	21.52	21.53								
15	64QAM	36	0	20.30	20.45	20.35								
15	64QAM	36	20	20.30	20.36	20.37								
15	64QAM	36	39	20.11	20.15	20.35	21	0.8						
15	64QAM	75	0	20.28	20.39	20.56								
15	256QAM	1	0	18.63	18.86	18.86								
15	256QAM	1	37	18.57	18.91	18.91								
15	256QAM	1	74	18.62	18.86	18.94	19	2.8						
15	256QAM	50	0	18.56	18.86	18.86								
15	256QAM	50	24	18.35	18.52	18.80								
15	256QAM	36	39	18.48	18.62	18.58								
15	256QAM	75	0	18.49	18.62	18.64	19	2.8						
15	256QAM	75	0	18.49	18.62	18.64								
15	256QAM	100	0	18.65	18.89	18.95								
15	256QAM	100	0	18.65	18.89	18.95								
Channel														
Frequency (MHz)														
15	QPSK	1	0	21.67	21.70	21.62	21.8	0						
15	QPSK	1	12	21.58	21.61	21.56								
15	QPSK	1	24	21.51	21.70	21.70								
15	QPSK	12	0	21.31	21.41	21.47								
15	QPSK	12	7	21.58	21.42	21.53	21.8	0						
15	QPSK	12	13	21.60	21.59	21.52								
15	QPSK	25	0	21.45	21.66	21.46								
15	16QAM	1	0	21.29	21.69	21.53								
15	16QAM	1	12	21.60	21.62	21.55	21.8	0						
15	16QAM	1	24	21.44	21.59	21.54								
15	16QAM	12	0	21.25	21.48	21.40								
15	16QAM	12	7	21.20	21.42	21.35								
15	16QAM	12	13	21.26	21.25	21.14	21.8	0						
15	16QAM	25	0	21.28	21.26	21.28								
15	64QAM	1	0	21.30	21.56	21.53								
15	64QAM	1	12	21.32	21.59	21.47								
15	64QAM	1	24	21.32	21.67	21.36	21	0.8						
15	64QAM	12	0	20.22	20.36	20.49								
15	64QAM	12	7	20.30	20.34	20.39								
15	64QAM	12	13	20.03	20.35	20.20								
15	64QAM	25	0	20.24	20.25	20.12	21	0.8						
15	256QAM	1	0	18.59	18.86	18.88								
15	256QAM	1	12	18.59	18.96	18.96								
15	256QAM	1	24	18.62	18.98	18.93								
15	256QAM	12	0	18.49	18.84	18.82	19	2.8						
15	256QAM	12	7	18.43	18.93	18.90								
15	256QAM	12	13	18.40	18.80	18.40								
15	256QAM	25	0	18.55	18.82	18.43								
15	256QAM	25	0	18.55	18.82	18.43	19	2.8						
15	256QAM	25	0	18.55	18.82	18.43								
15	256QAM	50	0	18.65	18.90	18.95								
15	256QAM	50	0	18.65	18.90	18.95								
Channel														
Frequency (MHz)														
3	QPSK	1	0	21.53	21.63	21.63	21.8	0						
3	QPSK	1	8	21.59	21.67	21.66								
3	QPSK	1	14	21.62	21.68	21.63								
3	QPSK	8	0	21.40	21.64	21.50								
3	QPSK	8	4	21.40	21.48	21.62	21.8	0						
3	QPSK	8	7	21.49	21.61	21.55								
3	QPSK	15	0	21.44	21.57	21.48								
3	16QAM	1	0	21.34	21.59	21.52								
3	16QAM	1	8	21.53	21.59	21.49	21.8	0						
3	16QAM	1	14	21.54	21.59	21.58								
3	16QAM	8	0	21.31	21.51	21.45								
3	16QAM	8	4	21.20	21.38	21.42								
3	16QAM	15	0	21.28	21.23	21.18	21.8	0						
3	16QAM	15	0	21.23	21.24	21.32								
3	64QAM	1	0	21.36	21.45	21.40								

Band 2 Ant3 DS15 Simultaneous												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR3 (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	19.85	19.86	19.84	20.6	0				
20	QPSK	1	49	19.74	19.83	19.84						
20	QPSK	1	99	19.85	19.72	19.84						
20	QPSK	50	0	19.83	19.83	19.88						
20	QPSK	50	24	19.71	19.80	19.73	20.6	0				
20	QPSK	50	50	19.83	19.87	19.76						
20	QPSK	100	0	19.77	19.86	19.82						
20	16QAM	50	0	19.86	19.86	19.86						
20	16QAM	1	49	19.72	19.81	19.81	20.6	0				
20	16QAM	1	99	19.78	19.81	19.84						
20	16QAM	50	0	19.86	19.86	19.86						
20	16QAM	50	24	19.84	19.85	19.83						
20	16QAM	50	50	19.83	19.83	19.76	20.6	0				
20	16QAM	100	0	19.85	19.75	19.73						
20	16QAM	100	0	19.85	19.75	19.73						
20	16QAM	1	0	19.74	19.87	19.76						
20	84QAM	1	49	19.88	19.89	19.87	20.6	0				
20	84QAM	1	99	19.79	19.79	19.82						
20	84QAM	50	0	19.79	19.77	19.89						
20	84QAM	50	24	19.86	19.71	19.86						
20	84QAM	50	50	19.80	19.81	19.87	20.6	0				
20	84QAM	100	0	19.72	19.75	19.89						
20	84QAM	100	0	19.72	19.75	19.89						
20	84QAM	1	49	19.32	19.02	19.26						
20	256QAM	1	99	19.28	19.47	19.27	20	0.6				
20	256QAM	1	99	19.28	19.47	19.27						
20	256QAM	50	24	19.23	19.11	19.49						
20	256QAM	50	24	19.23	19.11	19.49						
20	256QAM	50	50	19.10	19.18	19.40	20	0.6				
20	256QAM	50	50	19.10	19.18	19.40						
20	256QAM	100	0	19.25	19.25	19.25						
20	256QAM	100	0	19.25	19.25	19.25						
Channel												
Frequency (MHz)												
16	QPSK	1	0	19.73	19.85	19.71	20.6	0				
16	QPSK	1	37	19.89	19.87	19.86						
16	QPSK	1	74	19.77	19.69	19.87						
16	QPSK	36	0	19.79	19.80	19.85						
16	QPSK	36	25	19.68	19.75	19.82	20.6	0				
16	QPSK	36	39	19.46	19.78	19.65						
16	QPSK	75	0	19.71	19.72	19.76						
16	16QAM	1	74	19.71	19.80	19.77						
15	16QAM	1	37	19.68	19.76	19.38	20.6	0				
15	16QAM	1	74	19.74	19.80	19.80						
15	16QAM	36	0	19.60	19.69	19.80						
15	16QAM	36	20	19.50	19.75	19.59						
15	16QAM	36	25	19.50	19.75	19.59	20.6	0				
15	16QAM	75	0	19.58	19.64	19.87						
15	84QAM	1	0	19.64	19.82	19.86						
15	84QAM	1	37	19.82	19.85	19.87						
15	84QAM	1	74	19.68	19.65	19.57	20.6	0				
15	84QAM	36	0	19.74	19.70	19.57						
15	84QAM	36	25	19.56	19.56	19.66						
15	84QAM	36	39	19.43	19.77	19.52						
15	84QAM	75	0	19.69	19.70	19.81	20	0.6				
15	256QAM	1	37	19.24	19.35	19.06						
15	256QAM	1	74	19.23	19.26	19.06						
15	256QAM	36	20	19.58	19.05	19.39						
15	256QAM	36	20	19.58	19.05	19.39	20	0.6				
15	256QAM	36	39	19.83	19.86	19.19						
15	256QAM	75	0	19.15	19.15	19.15						
15	256QAM	75	0	19.15	19.15	19.15						
Channel												
Frequency (MHz)												
16	QPSK	1	0	19.73	19.85	19.71	20.6	0				
16	QPSK	1	37	19.89	19.87	19.86						
16	QPSK	1	74	19.77	19.69	19.87						
16	QPSK	36	0	19.79	19.80	19.85						
16	QPSK	36	25	19.68	19.75	19.82	20.6	0				
16	QPSK	36	39	19.46	19.78	19.65						
16	QPSK	75	0	19.71	19.72	19.76						
16	16QAM	1	74	19.71	19.80	19.77						
15	16QAM	1	37	19.68	19.76	19.38	20.6	0				
15	16QAM	1	74	19.74	19.80	19.80						
15	16QAM	36	0	19.60	19.69	19.80						
15	16QAM	36	20	19.50	19.75	19.59						
15	16QAM	36	25	19.50	19.75	19.59	20.6	0				
15	16QAM	75	0	19.58	19.64	19.87						
15	84QAM	1	0	19.64	19.82	19.86						
15	84QAM	1	37	19.82	19.85	19.87						
15	84QAM	1	74	19.68	19.65	19.57	20.6	0				
15	84QAM	36	0	19.74	19.70	19.57						
15	84QAM	36	25	19.56	19.56	19.66						
15	84QAM	36	39	19.43	19.77	19.52						
15	84QAM	75	0	19.69	19.70	19.81	20	0.6				
15	256QAM	1	37	19.24	19.35	19.06						
15	256QAM	1	74	19.23	19.26	19.06						
15	256QAM	36	20	19.58	19.05	19.39						
15	256QAM	36	20	19.58	19.05	19.39	20	0.6				
15	256QAM	36	39	19.83	19.86	19.19						
15	256QAM	75	0	19.15	19.15	19.15						
15	256QAM	75	0	19.15	19.15	19.15						
Channel												
Frequency (MHz)												
16	QPSK	1	0	19.73	19.85	19.71	20.6	0				
16	QPSK	1	37	19.89	19.87	19.86						
16	QPSK	1	74	19.77	19.69	19.87						
16	QPSK	36	0	19.79	19.80	19.85	20.6	0				
16	QPSK	36	25	19.68	19.75	19.82						
16	QPSK	36	39	19.46	19.78	19.65						
16	QPSK	75	0	19.71	19.72	19.76	20.6	0				
16	16QAM	1	74	19.71	19.80	19.77						
15	16QAM	1	37	19.68	19.76	19.38						
15	16QAM	1	74	19.74	19.80	19.80	20.6	0				
15	16QAM	36	0	19.60	19.69	19.80						
15	16QAM	36	20	19.50	19.75	19.59						
15	16QAM	36	25	19.50	19.75	19.59	20.6	0				
15	16QAM	75	0	19.58	19.64	19.87						
15	84QAM	1	0	19.64	19.82	19.86						
15	84QAM	1	37	19.82	19.85	19.87	20.6	0				
15	84QAM	1	74	19.68	19.65	19.57						
15	84QAM	36	0	19.74	19.70	19.57						
15	84QAM	36	25	19.56	19.56	19.66	20.6	0				
15	84QAM	36	39	19.43	19.77	19.52						
15	84QAM	75	0	19.69	19.70	19.81						
15	256QAM	1	37	19.24	19.35	19.06	20	0.6				
15	256QAM	1	74	19.23	19.26	19.06						
15	256QAM	36	20	19.58	19.05	19.39						
15	256QAM	36	20	19.58	19.05	19.39	20	0.6				
15	256QAM	36	39	19.83	19.86	19.19						
15	256QAM	75	0	19.15	19.15	19.15						
15	256QAM	75	0	19.15	19.15	19.15	20	0.6				
15	256QAM	75	0	19.15	19.15	19.15						
15	256QAM	75	0	19.15	19.15	19.15						
Channel												
Frequency (MHz)												
16	QPSK	1	0	19.73	19.85	19.71	20.6	0				
16	QPSK	1	37	19.89	19.87	19.86						
16	QPSK	1	74	19.77	19.69	19.87						
16	QPSK	36	0	19.79	19.80	19.85	20.6	0				
16	QPSK	36	25	19.68	19.75	19.82						
16	QPSK	36	39	19.46	19.78	19.65						
16	QPSK	75	0	19.71	19.72	19.76	20.6	0				
16	16QAM	1	74	19.71	19.80	19.77						
15	16QAM	1	37	19.68	19.76	19.38						
15	16QAM	1	74	19.74	19.80	19.80	20.6	0				
15	16QAM	36	0	19.60	19.69	19.80						
15	16QAM	36	20	19.50	19.75	19.59						
15	16QAM	36	25	19.50	19.75	19.59	20.6	0				
15	16QAM	75	0	19.58	19.64	19.87						
15	84QAM	1	0	19.64	19.82	19.86						
15	84QAM	1	37	19.82	19.85	19.87	20.6	0				
15	84QAM	1	74	19.68	19.65	19.57						
15	84QAM	36	0	19.74	19.70	19.57						
15	84QAM	36	25	19.56	19.56	19.66	20.6	0				
15	84QAM	36	39	19.43	19.77	19.52						
15	84QAM	75	0	19.69	19.70	19.81						
15	256QAM	1	37	19.24	19.35	19.06	20	0.6				
15	256QAM	1	74	19.23	19.26	19.06						
15	256QAM	36	20	19.58	19.05	19.39						
15	256QAM	36	20	19.58	19.05	19.39	20	0.6				
15	256QAM	36	39	19.83	19.86	19.19						
15	256QAM	75	0	19.15	19.15	19.15						
15	256QAM	75	0	19.15	19.15	19.15	20	0.6				
15	256QAM	75	0	19.15	19.15	19.15						
15	256QAM	75	0	19.15	19.15	19.15						
Channel												
Frequency (MHz)												
16	QPSK	1	0	19.73	19.85	19.71	20.6	0				
16	QPSK	1	37	19.89	19.87	19.86						
16	QPSK	1	74	19.77	19.69	19.87						
16	QPSK	36	0	19.79	19.80	19.85	20.6	0				
16	QPSK	36	25	19.68	19.75	19.82						
16	QPSK	36	39	19.46	19.78	19.65						
16	QPSK	75	0	19.71	19.72	19.76	20.6	0				
16	16QAM	1	74	19.71	19.80	19.77						
15	16QAM	1	37	19.68	19.76	19.38						
15	16QAM	1	74	19.74	19.80	19.80	20.6	0				
15	16QAM	36	0	19.60	19.69	19.80						
15	16QAM	36	20	19.50	19.75	19.59						
15	16QAM	36	25	19.50	19.75	19.59	20.6	0				
15	16QAM	75	0	19.58	19.64	19.87						
15	84QAM	1	0	19.64	19.82	19.86						
15	84QAM	1	37	19.82	19.85	19.87	20.6	0				
15	84QAM	1	74	19.68	19.65	19.57						
15	84QAM	36	0	19.74	19.70	19.57						
15	84QAM	36	25	19.56	19.56	19.66	20.6	0				
15	84QAM	36	39	19.43	19.77	19.52						
15	84QAM	75	0	19.69	19.70	19.81						
15	256QAM	1										



Band 2 Ant0 DS13														
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Max Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (dB)	APRS (dB)					
Channel 18870 - 19000														
Frequency (MHz)														
20	QPSK	1	0	20.24	20.49	20.47				21.3	0			
20	QPSK	1	49	20.14	20.29	20.25								
20	QPSK	1	99	20.28	20.27	20.28								
20	QPSK	50	0	20.33	20.37	20.26								
20	QPSK	50	24	20.13	20.23	20.11				21.3	0			
20	QPSK	50	50	20.20	20.20	20.24								
20	QPSK	100	0	20.23	20.28	20.17								
20	16QAM	1	0	20.26	20.48	20.31								
20	16QAM	1	49	20.20	20.10	20.17				21.3	0			
20	16QAM	1	99	20.20	20.27	20.22								
20	16QAM	50	24	20.10	20.21	20.09								
20	16QAM	100	0	20.16	20.23	20.14								
20	256QAM	1	0	19.51	19.66	19.65				20.5	0.8			
20	256QAM	1	49	19.52	19.67	19.67								
20	256QAM	1	99	19.57	19.65	19.52								
20	256QAM	50	0	19.55	19.59	19.43								
20	256QAM	50	24	19.42	19.50	19.48				20.5	0.8			
20	256QAM	50	50	19.28	19.60	19.35								
20	256QAM	100	0	19.39	19.49	19.58								
Channel 18870 - 19000														
Frequency (MHz)														
15	QPSK	1	0	20.18	20.42	20.36				21.3	0			
15	QPSK	1	31	20.14	20.24	20.21								
15	QPSK	1	74	20.13	20.22	20.30								
15	QPSK	36	0	20.31	20.27	20.20								
15	QPSK	36	36	20.07	20.17	19.99				21.3	0			
15	QPSK	36	36	20.10	20.18	20.02								
15	QPSK	75	0	20.15	20.15	20.04								
15	16QAM	1	0	20.14	20.34	20.01								
15	16QAM	1	37	20.11	20.18	20.06				21.3	0			
15	16QAM	1	74	20.18	20.20	20.15								
15	16QAM	36	0	20.26	20.28	20.07								
15	16QAM	36	36	20.08	20.18	19.97								
15	16QAM	36	36	20.08	20.10	19.94				21.3	0			
15	16QAM	75	0	20.12	20.24	19.98								
15	64QAM	1	0	20.07	19.99	20.05								
15	64QAM	1	37	20.03	20.16	20.04								
15	64QAM	1	74	20.05	20.11	20.16				21.3	0			
15	64QAM	36	0	20.05	20.22	19.99								
15	64QAM	36	36	20.06	20.14	19.93								
15	64QAM	36	36	19.90	20.09	20.05								
15	64QAM	75	0	20.07	20.19	20.10				20.5	0.8			
15	256QAM	1	0	19.88	19.94	19.42								
15	256QAM	1	37	19.46	19.94	19.89								
15	256QAM	1	74	19.51	19.48	19.41								
15	256QAM	36	0	19.34	19.47	19.38				20.5	0.8			
15	256QAM	36	36	19.20	19.41	19.36								
15	256QAM	36	36	19.07	19.38	19.24								
15	256QAM	75	0	19.16	19.41	19.36								
Channel 18865 - 19000														
Frequency (MHz)														
10	QPSK	1	0	20.19	20.35	20.45				21.3	0			
10	QPSK	1	24	20.04	20.24	20.21								
10	QPSK	1	49	20.22	20.20	20.27								
10	QPSK	25	0	20.26	20.24	20.19								
10	QPSK	25	12	20.09	20.17	19.99				21.3	0			
10	QPSK	25	25	20.10	20.18	20.01								
10	QPSK	50	0	20.15	20.26	20.15								
10	16QAM	1	0	20.18	20.38	20.02								
10	16QAM	1	25	20.09	20.12	20.03				21.3	0			
10	16QAM	1	49	20.08	20.24	20.16								
10	16QAM	25	0	20.20	20.24	20.06								
10	16QAM	25	12	20.07	20.07	20.05								
10	16QAM	25	25	20.04	20.01	19.96				21.3	0			
10	16QAM	50	0	20.16	20.16	19.95								
10	64QAM	1	0	20.08	19.99	20.04								
10	64QAM	1	25	20.02	20.02	20.03								
10	64QAM	1	49	20.07	20.15	20.08				21.3	0			
10	64QAM	25	0	20.09	20.20	20.07								
10	64QAM	25	12	20.06	20.12	20.01								
10	64QAM	25	25	19.98	20.02	19.98								
10	64QAM	50	0	20.13	20.12	20.00				20.5	0.8			
10	256QAM	1	0	19.82	19.82	19.42								
10	256QAM	1	25	19.56	19.45	19.32								
10	256QAM	1	49	19.37	19.56	19.34								
10	256QAM	25	0	19.46	19.55	19.46				20.5	0.8			
10	256QAM	25	12	19.32	19.52	19.35								
10	256QAM	25	25	19.06	19.41	19.36								
10	256QAM	50	0	19.21	19.48	19.36								
Channel 18865 - 19000														
Frequency (MHz)														
5	QPSK	1	0	20.12	20.37	20.44				21.3	0			
5	QPSK	1	12	20.11	20.22	20.23								
5	QPSK	1	24	20.15	20.19	20.30								
5	QPSK	12	0	20.31	20.22	20.17								
5	QPSK	12	7	20.05	20.16	20.00				21.3	0			
5	QPSK	12	13	20.10	20.21	19.99								
5	QPSK	25	0	20.17	20.23	20.12								
5	16QAM	1	0	20.16	20.43	20.16								
5	16QAM	1	12	20.17	20.19	20.08				21.3	0			
5	16QAM	1	24	20.06	20.14	20.05								
5	16QAM	12	0	20.16	20.14	20.05								
5	16QAM	12	7	20.08	20.13	20.07								
5	16QAM	12	13	20.07	20.09	19.96				21.3	0			
5	16QAM	25	0	20.17	20.17	19.92								
5	64QAM	1	0	20.09	20.04	20.23								
5	64QAM	1	12	20.04	20.11	19.96								
5	64QAM	1	24	20.05	20.15	20.10				21.3	0			
5	64QAM	12	0	20.00	20.19	20.08								
5	64QAM	12	7	19.95	19.99	20.03								
5	64QAM	12	13	20.00	19.99	20.03								
5	64QAM	25	0	20.13	20.10	20.01				20.5	0.8			
5	256QAM	1	0	19.33	19.57	19.44								
5	256QAM	1	12	19.50	19.51	19.30								
5	256QAM	1	24	19.32	19.57	19.36								
5	256QAM	12	0	19.41	19.41	19.24				20.5	0.8			
5	256QAM	12	7	19.34	19.58	19.34								
5	256QAM	12	13	19.22	19.46	19.31								
5	256QAM	25	0	19.27	19.22	19.34								
Channel 18815 - 19000														
Frequency (MHz)														
3	QPSK	1	0	20.13	20.38	20.35				21.3	0			
3	QPSK	1	8	20.10	20.25	20.15								
3	QPSK	1	16	20.15	20.24	20.20								
3	QPSK	8	0	20.28	20.31	20.23								
3	QPSK	8	8	20.01	20.19	20.03				21.3	0			
3	QPSK	8	16	20.12	20.27	20.18								
3	QPSK	15	0	20.13	20.15	20.08								
3	16QAM	1	0	20.12	20.38	20.14								
3	16QAM	1	8	20.14	20.27	20.18				21.3	0			
3	16QAM	1	16	20.08	20.24	20.19								
3	16QAM	8	0	20.22	20.15	20.12								
3	16QAM	8	8	20.07	20.18	20.07								
3	16QAM	8	7	20.02	20.09	19.98				21.3	0			
3	16QAM	15	0	20.16	20.15	20.06								
3	16QAM	15	8	20.10	20.04	19.94								
3	16QAM	15	16	20.08	20.16	20.01								
3	16QAM	1	8	20.03	20.16	20.04				21.3	0			
3	16QAM	1	16	20.04	20.13	20.06								
3	16QAM	8	0	19.98	20.11	19.98								
3	16QAM	8	8	19.96	20.15	19.96								
3	16QAM	16	0	20.08	20.15	20.10				20.5	0.8			
3	256QAM	1	0	19.41	19.44	19.37								
3	256QAM	1	8	19.42	19.44	19.37								
3	256QAM	1	16	19.40	19.45	19.37								
3	256QAM	1	14	19.46	19.32	19.32				20.5	0.8			
3	256QAM	8	0	19.56	19.52	19.34								
3	256QAM	8	8	19.22	19.48	19.45								
3	256QAM	8	7	19.06	19.35	19.31								
3	256QAM	15	0	19.33	19.28	19.48								
Channel 18617 - 19000														
Frequency (MHz)														
1.4	QPSK	1	0	20.12	20.39	20.35				21.3	0			
1.4	QPSK	1	0	20.22	20.27	20.24								
1.4	QPSK	1	5	20.17	20.17	20.26								
1.4	QPSK	3	0	20.27	20.31	20.23								
1.4	QPSK	3	0	20.17	20.17	20.18				21.3	0			
1.4	QPSK	3	3	20.13	20.26	19.98								
1.4	QPSK	6	0	20.12	20.17	20.14								
1.4	QPSK	6	3	20.17	20.27	20.24								
1.4	16QAM	1	5	20.11	20.24	20.19				21.3	0			
1.4	16QAM	1	5	20.14	20.15	20.15								
1.4	16QAM	3	1	19.96	19.17	19.87								

Band 2 Ant1 DS13												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Init (dB)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	16.88	16.92	16.96			17.5	0		
20	QPSK	1	49	16.77	16.72	16.78						
20	QPSK	1	99	16.70	16.96	16.86			17.5	0		
20	QPSK	50	0	16.83	16.90	16.90						
20	QPSK	50	24	16.68	16.90	16.70			17.5	0		
20	QPSK	50	50	16.75	16.72	16.70						
20	QPSK	100	0	16.82	16.90	16.91			17.5	0		
20	16QAM	100	0	16.72	16.96	16.96						
20	16QAM	1	49	16.57	16.75	16.90			17.5	0		
20	16QAM	1	99	16.69	16.88	16.87						
20	16QAM	50	0	16.73	16.95	16.75			17.5	0		
20	16QAM	50	24	16.69	16.74	16.74						
20	16QAM	50	50	16.58	16.85	16.73			17.5	0		
20	16QAM	100	0	16.80	16.90	16.91						
20	64QAM	1	0	16.80	16.14	16.75			17.5	0		
20	64QAM	1	49	16.71	16.73	16.71						
20	64QAM	50	0	16.78	16.93	16.94			17.5	0		
20	64QAM	50	0	16.83	16.89	16.85						
20	64QAM	50	24	16.78	16.89	16.81			17.5	0		
20	64QAM	50	50	16.74	16.68	16.75						
20	256QAM	1	49	16.77	16.76	16.81			17.5	0		
20	256QAM	1	99	16.68	16.84	16.89						
20	256QAM	50	0	16.83	16.95	16.93			17.5	0		
20	256QAM	50	24	16.62	16.73	16.52						
20	256QAM	50	50	16.64	16.68	16.57			17.5	0		
20	256QAM	100	0	16.85	16.82	16.73						
Channel												
Frequency (MHz)												
16	QPSK	1	0	16.79	16.83	16.90			17.5	0		
16	QPSK	1	37	16.74	16.63	16.68						
16	QPSK	1	74	16.64	16.90	16.73			17.5	0		
16	QPSK	36	0	16.74	16.93	16.89						
16	QPSK	36	25	16.58	16.95	16.81			17.5	0		
16	QPSK	36	39	16.73	16.64	16.59						
16	QPSK	75	0	16.78	16.95	16.86			17.5	0		
16	16QAM	1	0	16.63	16.95	16.76						
16	16QAM	1	37	16.78	16.67	16.78			17.5	0		
16	16QAM	1	74	16.63	16.95	16.76						
16	16QAM	36	0	16.64	16.77	16.69			17.5	0		
16	16QAM	36	20	16.63	16.65	16.63						
16	16QAM	36	39	16.76	16.58	16.57			17.5	0		
16	16QAM	75	0	16.78	16.79	16.51						
16	64QAM	1	0	16.67	16.61	16.65			17.5	0		
16	64QAM	1	37	16.66	16.69	16.69						
16	64QAM	1	74	16.66	16.75	16.75			17.5	0		
16	64QAM	36	0	16.69	16.80	16.78						
16	64QAM	36	20	16.67	16.67	16.67			17.5	0		
16	64QAM	36	39	16.78	16.65	16.52						
16	64QAM	75	0	16.82	16.76	16.60			17.5	0		
16	256QAM	1	0	16.76	16.66	16.66						
16	256QAM	1	37	16.65	16.67	16.59			17.5	0		
16	256QAM	1	74	16.65	16.70	16.66						
16	256QAM	36	0	16.68	16.73	16.68			17.5	0		
16	256QAM	36	20	16.50	16.67	16.71						
16	256QAM	36	39	16.65	16.66	16.54			17.5	0		
16	256QAM	75	0	16.78	16.71	16.57						
Channel												
Frequency (MHz)												
16	QPSK	1	0	16.84	16.88	16.95			17.5	0		
16	QPSK	1	25	16.65	16.65	16.66						
16	QPSK	1	49	16.67	16.86	16.83			17.5	0		
16	QPSK	25	0	16.67	16.76	16.83						
16	QPSK	25	12	16.58	16.88	16.83			17.5	0		
16	QPSK	25	25	16.72	16.65	16.64						
16	QPSK	25	39	16.67	16.67	16.67			17.5	0		
16	16QAM	1	0	16.63	16.90	16.69						
16	16QAM	1	26	16.65	16.71	16.51			17.5	0		
16	16QAM	1	49	16.66	16.76	16.69						
16	16QAM	25	0	16.61	16.75	16.69			17.5	0		
16	16QAM	25	12	16.62	16.61	16.63						
16	16QAM	36	0	16.63	16.63	16.63			17.5	0		
16	16QAM	36	20	16.50	16.81	16.80						
16	64QAM	1	0	16.72	16.62	16.63			17.5	0		
16	64QAM	1	24	16.68	16.68	16.68						
16	64QAM	1	49	16.65	16.73	16.70			17.5	0		
16	64QAM	25	0	16.77	16.81	16.73						
16	64QAM	25	12	16.67	16.67	16.67			17.5	0		
16	64QAM	25	25	16.70	16.68	16.74						
16	64QAM	50	0	16.82	16.72	16.65			17.5	0		
16	256QAM	1	0	16.72	16.68	16.68						
16	256QAM	1	26	16.68	16.68	16.66			17.5	0		
16	256QAM	1	49	16.59	16.75	16.65						
16	256QAM	25	0	16.71	16.61	16.68			17.5	0		
16	256QAM	25	12	16.59	16.69	16.72						
16	256QAM	25	25	16.62	16.63	16.76			17.5	0		
16	256QAM	50	0	16.79	16.69	16.61						
Channel												
Frequency (MHz)												
5	QPSK	1	0	16.84	16.88	16.95			17.5	0		
5	QPSK	1	12	16.72	16.65	16.72						
5	QPSK	1	24	16.60	16.82	16.81			17.5	0		
5	QPSK	12	0	16.60	16.84	16.82						
5	QPSK	12	7	16.65	16.67	16.59			17.5	0		
5	QPSK	12	13	16.63	16.59	16.66						
5	QPSK	25	0	16.77	16.68	16.72			17.5	0		
5	16QAM	1	0	16.62	16.97	16.67						
5	16QAM	1	12	16.79	16.66	16.77			17.5	0		
5	16QAM	1	24	16.68	16.74	16.73						
5	16QAM	12	0	16.60	16.82	16.72			17.5	0		
5	16QAM	12	7	16.59	16.60	16.63						
5	16QAM	12	13	16.61	16.62	16.65			17.5	0		
5	16QAM	25	0	16.81	16.66	16.66						
5	64QAM	1	0	16.73	16.66	16.68			17.5	0		
5	64QAM	1	12	16.63	16.63	16.66						
5	64QAM	12	7	16.62	16.67	16.75			17.5	0		
5	64QAM	12	13	16.68	16.62	16.58						
5	64QAM	25	0	16.81	16.66	16.66			17.5	0		
5	64QAM	25	0	16.73	16.66	16.68						
5	64QAM	25	7	16.67	16.67	16.75			17.5	0		
5	64QAM	25	13	16.68	16.62	16.58						
5	64QAM	50	0	16.82	16.79	16.69			17.5	0		
5	256QAM	1	0	16.68	16.68	16.74						
5	256QAM	1	12	16.63	16.62	16.54			17.5	0		
5	256QAM	1	24	16.60	16.70	16.56						
5	256QAM	12	0	16.73	16.75	16.71			17.5	0		
5	256QAM	12	7	16.50	16.63	16.63						
5	256QAM	12	13	16.61	16.55	16.62			17.5	0		
5	256QAM	25	0	16.77	16.71	16.62						
Channel												
Frequency (MHz)												
3	QPSK	1	0	16.76	16.86	16.95			17.5	0		
3	QPSK	1	8	16.74	16.82	16.86						
3	QPSK	1	16	16.66	16.90	16.86			17.5	0		
3	QPSK	8	0	16.78	16.88	16.90						
3	QPSK	8	8	16.57	16.82	16.81			17.5	0		
3	QPSK	8	16	16.53	16.68	16.68						
3	QPSK	16	0	16.75	16.87	16.78			17.5	0		
3	16QAM	1	0	16.66	16.96	16.72						
3	16QAM	1	8	16.67	16.85	16.83			17.5	0		
3	16QAM	1	16	16.65	16.73	16.74						
3	16QAM	8	0	16.67	16.81	16.72			17.5	0		
3	16QAM	8	8	16.61	16.68	16.68						
3	16QAM	8	16	16.51	16.55	16.79			17.5	0		
3	16QAM	16	0	16.79	16.88	16.93						
3	16QAM	16	8	16.77	16.69	16.70			17.5	0		
3	16QAM	16	16	16.63	16.68	16.68						
3	64QAM	1	0	16.73	16.68	16.68			17.5	0		
3	64QAM	1	16	16.63	16.73	16.78						
3	64QAM	8	0	16.69	16.82	16.82			17.5	0		
3	64QAM	8	8	16.66	16.58	16.63						
3	64QAM	8	16	16.54	16.54	16.81			17.5	0		
3	64QAM	16	0	16.83	16.77	16.61						
3	256QAM	1	0	16.68	16.61	16.67			17.5	0		
3	256QAM	1	8	16.63	16.63	16.63						
3	256QAM	1	16	16.56	16.80	16.85			17.5	0		
3	256QAM	8	0	16.77	16.81	16.82						
3	256QAM	8	8	16.67	16.78	16.82			17.5	0		
3	256QAM	8	16	16.62	16.58	16.72						
3	256QAM	16	0	16.83	16.72	16.70			17.5	0		
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	16.91	16.62	16.50					17.5	0
1.4	QPSK	1	8	16.69	16.62	16.50						
1.4	QPSK	1	16	16.51	16.91	16.74			17.5	0		
1.4	QPSK	3	0	16.81	16.90	16.90						
1.4	QPSK	3	8	16.69	16.83	16.83			17.5	0		
1.4	QPSK	3	16	16.71	16.68	16.67						
1.4	QPSK	6	0	16.78	16.85	16.86			17.5	0		
1.4	QPSK	6	8	16.66	16.77	16.77		</				



Band 2 Ant2 DSI3																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	APR3 (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	21.40	21.57	21.40	22.3	0								
20	QPSK	1	49	21.37	21.47	21.27										
20	QPSK	1	99	21.43	21.40	21.35										
20	QPSK	50	0	21.36	21.44	21.36										
20	QPSK	50	24	21.16	21.41	21.26	22.3	0								
20	QPSK	50	50	21.26	21.43	21.16										
20	QPSK	100	0	21.26	21.36	21.26										
20	16QAM	50	0	21.34	21.54	21.34										
20	16QAM	1	49	21.14	21.42	21.26	22.3	0								
20	16QAM	1	99	21.32	21.30	21.25										
20	16QAM	50	0	21.26	21.36	21.22										
20	16QAM	50	24	21.06	21.44	21.10										
20	16QAM	50	50	21.22	21.21	21.07	22	0.3								
20	16QAM	100	0	21.22	21.31	21.16										
20	16QAM	1	0	21.23	21.30	21.23										
20	16QAM	1	49	21.15	21.37	21.17										
20	16QAM	50	0	20.20	20.52	20.59	21	1.3								
20	16QAM	50	24	20.40	20.41	20.56										
20	16QAM	50	50	20.21	20.38	20.40										
20	16QAM	100	0	20.44	20.52	20.29										
20	256QAM	1	0	18.78	18.90	18.99	19	3.3								
20	256QAM	1	49	18.72	18.81	18.87										
20	256QAM	1	99	18.69	18.82	18.89										
20	256QAM	50	0	18.63	18.79	18.88										
20	256QAM	50	24	18.51	18.77	18.84	19	3.3								
Channel																
Frequency (MHz)																
16	QPSK	1	0	16.75	16.80	16.62			22.3	0						
16	QPSK	1	53	16.36	16.49	16.31										
16	QPSK	1	103	16.42	16.38	16.24										
16	QPSK	36	0	16.28	16.42	16.20										
16	QPSK	36	37	16.10	16.33	16.19	22.3	0								
16	QPSK	36	39	16.14	16.30	16.09										
16	QPSK	75	0	16.23	16.28	16.21										
16	QPSK	75	0	16.32	16.46	16.35										
16	16QAM	1	37	16.29	16.42	16.21	22.3	0								
16	16QAM	1	74	16.36	16.36	16.06										
16	16QAM	36	0	16.27	16.34	16.19										
16	16QAM	36	20	16.13	16.28	16.17										
16	16QAM	36	20	16.20	16.35	16.27	22	0.3								
16	16QAM	75	0	16.16	16.27	16.14										
16	16QAM	75	0	16.24	16.45	16.18										
16	16QAM	1	37	16.35	16.39	16.07										
16	16QAM	1	74	16.25	16.22	16.12	21	1.3								
16	16QAM	36	0	20.30	20.45	20.35										
16	16QAM	36	20	20.36	20.36	20.47										
16	16QAM	36	39	20.11	20.15	20.35										
16	16QAM	75	0	20.28	20.38	20.06	19	3.3								
16	256QAM	1	0	18.63	18.80	18.81										
16	256QAM	1	37	18.57	18.91	18.91										
16	256QAM	1	74	18.62	18.86	18.94										
16	256QAM	50	0	18.55	18.85	18.85	19	3.3								
16	256QAM	50	24	18.35	18.52	18.80										
16	256QAM	36	39	18.48	18.62	18.98										
16	256QAM	75	0	18.49	18.63	18.94										
Channel																
Frequency (MHz)																
10	QPSK	1	0	21.34	21.48	21.34	22.3	0								
10	QPSK	1	25	21.34	21.41	21.13										
10	QPSK	1	49	21.35	21.30	21.27										
10	QPSK	25	0	21.30	21.40	21.30										
10	QPSK	25	12	21.10	21.32	21.14	22.3	0								
10	QPSK	25	25	21.20	21.37	21.08										
10	QPSK	50	0	21.30	21.30	21.08										
10	16QAM	1	0	21.36	21.53	21.29										
10	16QAM	1	25	21.30	21.38	21.21	22.3	0								
10	16QAM	1	49	21.34	21.34	21.04										
10	16QAM	25	0	21.28	21.34	21.20										
10	16QAM	25	12	21.10	21.28	21.21										
10	16QAM	50	0	21.15	21.35	21.07	22	0.3								
10	16QAM	50	0	21.24	21.25	21.10										
10	16QAM	1	0	21.26	21.46	21.14										
10	16QAM	1	25	21.06	21.45	21.07										
10	16QAM	1	49	21.21	21.20	21.19	21	1.3								
10	16QAM	25	0	20.30	20.47	20.50										
10	16QAM	25	12	20.36	20.40	20.39										
10	16QAM	25	25	20.08	20.20	20.26										
10	16QAM	50	0	20.25	20.38	20.09	19	3.3								
10	256QAM	1	0	18.72	18.90	18.92										
10	256QAM	1	25	18.69	18.93	18.92										
10	256QAM	1	49	18.65	18.76	18.95										
10	256QAM	25	0	18.44	18.82	18.95	19	3.3								
10	256QAM	25	12	18.51	18.98	18.74										
10	256QAM	25	25	18.37	18.70	18.93										
10	256QAM	50	0	18.46	18.65	18.93										
Channel																
Frequency (MHz)																
5	QPSK	1	0	21.37	21.43	21.30	22.3	0								
5	QPSK	1	12	21.27	21.42	21.15										
5	QPSK	1	24	21.29	21.35	21.30										
5	QPSK	12	0	21.30	21.40	21.30										
5	QPSK	12	7	21.04	21.30	21.17	22.3	0								
5	QPSK	12	13	21.13	21.29	21.10										
5	QPSK	25	0	21.21	21.32	21.14										
5	16QAM	1	0	21.31	21.52	21.33										
5	16QAM	1	12	21.35	21.34	21.23	22.3	0								
5	16QAM	1	24	21.11	21.34	21.09										
5	16QAM	12	0	21.33	21.38	21.25										
5	16QAM	12	7	21.08	21.33	21.19										
5	16QAM	12	13	21.16	21.32	21.08	22	0.3								
5	16QAM	25	0	21.14	21.24	21.16										
5	16QAM	1	0	21.25	21.51	21.18										
5	16QAM	1	12	21.01	21.40	21.23										
5	16QAM	1	24	21.29	21.18	21.15	22	0.3								
5	16QAM	12	0	21.30	21.40	21.30										
5	16QAM	12	7	21.04	21.30	21.17										
5	16QAM	12	13	21.13	21.29	21.10										
5	16QAM	25	0	21.21	21.32	21.14	21	1.3								
5	16QAM	25	12	21.06	21.28	21.21										
5	16QAM	25	25	20.08	20.20	20.26										
5	16QAM	50	0	20.25	20.38	20.09										
5	256QAM	1	0	18.72	18.90	18.92	19	3.3								
5	256QAM	1	12	18.69	18.93	18.92										
5	256QAM	1	24	18.65	18.76	18.95										
5	256QAM	12	0	18.49	18.89	18.92										
5	256QAM	12	7	18.43	18.81	18.76	19	3.3								
5	256QAM	12	13	18.48	18.90	18.88										
5	256QAM	25	0	18.46	18.65	18.93										
5	256QAM	25	12	18.51	18.92	18.87										
Channel																
Frequency (MHz)																
3	QPSK	1	0	21.32	21.51	21.30	22.3	0								
3	QPSK	1	8	21.27	21.48	21.15										
3	QPSK	1	17	21.31	21.47	21.20										
3	QPSK	8	0	21.32	21.41	21.26										
3	QPSK	8	4	21.13	21.28	21.13	22.3	0								
3	QPSK	8	17	21.19	21.34	21.19										
3	QPSK	16	0	21.23	21.22	21.18										
3	QPSK	16	8	21.26	21.49	21.27										
3	16QAM	1	0	21.36	21.58	21.36	22.3	0								
3	16QAM	1	8	21.32	21.44	21.26										
3	16QAM	1	17	21.37	21.30	21.25										
3	16QAM	8	0	21.31	21.39	21.28										
3	16QAM	8	4	21.03	21.33	21.08	22	0.3								
3	16QAM	8	17	21.23	21.41	21.03										
3	16QAM	16	0	21.27	21.32	21.18										
3	16QAM	16	8	21.29	21.41	21.21										
3	16QAM	1	8	21.08	21.38	21.20	22	0.3								
3	16QAM	1	17	21.10	21.38	21.20										
3	16QAM	8	0	20.24	20.59	20.49										
3	16QAM	8	4	20.16	20.32	20.42										
3	16QAM	16	0	20.34	20.57	20.17	21	1.3								
3	16QAM	16	8	20.33	20.34	20.13										
3	256QAM	1	0	18.73	18.81	18.86										
3	256QAM	1	8	18.64	18.86	18.86										
3	256QAM	1	16	18.60	18.66	18.62	19	3.3								
3	256QAM	8	0	18.60	18.72	18.58										
3	256QAM	8	8	18.47	18.64	18.84										
3	256QAM	8	16	18.26	18.53	18.57										
3	256QAM	16	0	18.56	18.62	18.57	19	3.3								
Channel																
Frequency (MHz)																
1.4	QPSK	1	0	21.34	21.53	21.27			22.3	0						
1.4	QPSK	1	23	21.23	21.42	21.22										
1.4	QPSK	1	45	21.32	21.44	21.26										
1.4	QPSK	3	0	21.36	21.52	21.27										
1.4	QPSK	3	23	21.25	21.44	21.26	22.3	0								
1.4	QPSK	3	45	21.40	21.28	21.28										
1.4	QPSK	3	67	21.27	21.39	21.22										
1.4	QPSK	15	0	21.30	21.51	21.28										
1.4	16QAM	1	0	21.34	21.46	21.31	22.3	0								
1.4	16QAM	1	23	21.32	21.48	21.28										
1.4	16QAM	1	45	21.41	21.36	21.30										
1.4	16QAM	3	0	21.27	21.59	21.22										
1.4	16QAM	3	23	21.15	21.29	21.13	22.3	0								
1.4	16QAM	3	45	21.31	21.42	21.21										
1.4	16QAM	15	0	21.11	21.37	21.16										
1.4	16QAM	15	8	21.04	21.27	21.07										
1.4	16QAM	1	0	20.55	21.01	20.88	22	0.3								
1.4	16QAM	1	23	20.55	20.93	20.76										
1.4	16QAM	3	0	20.33	20.50											

Band 2 Ant3 DS13										
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	18.25	18.52	19.31	20.5	0		
20	QPSK	1	49	18.21	18.48	19.27				
20	QPSK	1	99	18.38	18.55	19.24				
20	QPSK	50	0	18.23	18.51	19.20				
20	QPSK	50	24	18.04	18.32	19.03	20.5	0		
20	QPSK	50	50	18.10	18.30	19.09				
20	16QAM	100	0	19.18	19.21	19.19				
20	16QAM	50	0	19.29	19.30	19.30				
20	16QAM	1	49	18.03	18.28	19.14	20.5	0		
20	16QAM	1	99	18.16	18.25	19.21				
20	16QAM	50	24	18.26	18.43	19.36				
20	16QAM	50	50	18.23	18.42	19.19				
20	16QAM	100	0	19.34	19.25	19.24	20.5	0		
20	16QAM	1	0	19.31	19.30	19.19				
20	16QAM	1	49	18.09	18.23	19.20				
20	16QAM	50	0	19.21	19.20	19.17				
20	256QAM	50	24	18.24	18.40	19.21	20.5	0		
20	256QAM	50	50	18.15	18.28	19.14				
20	256QAM	100	0	19.16	19.23	19.20				
20	256QAM	1	0	19.19	19.33	19.19				
20	256QAM	1	37	18.04	18.20	19.08	20	0.5		
20	256QAM	1	74	18.06	18.23	19.04				
20	256QAM	36	0	18.17	18.44	19.19				
20	256QAM	36	20	19.12	19.35	19.22				
20	256QAM	36	20	19.12	19.35	19.22	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18	20.5	0		
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20	19.18				
20	256QAM	75	0	19.28	19.20					



Reduced Power Mode for Other PA DS13 Simultaneous

Band 2 Ant0 DS13 Simultaneous									
RF (MHz)	Modulation	RF Size	RF Offset	Power Ch / Freq 18700	Power Ch / Freq 18900	Power Ch / Freq 19100	Turnup Time (ms)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.24	20.43	20.47			
20	QPSK	1	49	20.14	20.29	20.29	21.3	0	
20	QPSK	1	99	20.26	20.26	20.26			
20	QPSK	50	0	20.33	20.37	20.26			
20	QPSK	50	24	20.12	20.23	20.11	21.3	0	
20	QPSK	50	50	20.20	20.19	20.04			
20	QPSK	100	0	20.23	20.22	20.16			
20	16QAM	1	0	20.26	20.46	20.16			
20	16QAM	1	49	20.20	20.24	20.17	21.3	0	
20	16QAM	1	99	20.20	20.27	20.21			
20	16QAM	50	0	20.14	20.21	20.09			
20	16QAM	50	24	20.07	20.21	20.04	21.3	0	
20	16QAM	50	49	20.18	20.10	20.08			
20	16QAM	100	0	20.16	20.23	20.14			
20	256QAM	1	0	19.81	19.86	19.80			
20	256QAM	1	49	19.87	19.83	19.83	20.5	0.8	
20	256QAM	1	99	19.87	19.85	19.82			
20	256QAM	50	0	19.85	19.89	19.43			
20	256QAM	50	24	19.82	19.80	19.80	20.5	0.8	
20	256QAM	50	50	19.28	19.60	19.30			
20	256QAM	100	0	19.39	19.49	19.08			
Channel									
Frequency (MHz)									
15	QPSK	1	0	20.16	20.42	20.36			
15	QPSK	1	74	20.22	20.20	20.20	21.3	0	
15	QPSK	1	74	20.13	20.20	20.36			
15	QPSK	36	0	20.31	20.27	20.20			
15	QPSK	36	39	20.07	20.17	19.98	21.3	0	
15	QPSK	36	39	20.10	20.18	20.02			
15	QPSK	75	0	20.15	20.15	20.04			
15	16QAM	1	74	20.02	20.17	19.98	21.3	0	
15	16QAM	1	37	20.11	20.10	20.00			
15	16QAM	1	74	20.18	20.20	20.15			
15	16QAM	36	0	20.26	20.20	19.94	21.3	0	
15	16QAM	36	39	20.08	20.10	19.97			
15	16QAM	36	39	20.06	20.10	19.94			
15	16QAM	75	0	20.04	20.24	20.11			
15	16QAM	1	0	20.07	19.95	20.02	21.3	0	
15	16QAM	1	37	20.03	20.16	20.04			
15	16QAM	1	74	20.05	20.11	20.10			
15	16QAM	36	0	20.05	20.22	19.90			
15	16QAM	36	39	20.06	20.14	20.00	21.3	0	
15	16QAM	36	39	20.07	20.10	19.95			
15	16QAM	75	0	20.07	20.18	20.10			
15	256QAM	1	0	19.38	19.46	19.40	20.5	0.8	
15	256QAM	1	37	19.46	19.47	19.39			
15	256QAM	1	74	19.51	19.48	19.41			
15	256QAM	36	0	19.34	19.47	19.38			
15	256QAM	36	39	19.20	19.41	19.30	20.5	0.8	
15	256QAM	36	39	19.07	19.36	19.24			
15	256QAM	75	0	19.18	19.45	19.35			
Channel									
Frequency (MHz)									
10	QPSK	1	0	20.19	20.35	20.45			
10	QPSK	1	36	20.04	20.34	20.36	21.3	0	
10	QPSK	1	49	20.22	20.20	20.27			
10	QPSK	25	0	20.26	20.24	20.19			
10	QPSK	25	39	20.00	20.17	19.98	21.3	0	
10	QPSK	25	26	20.18	20.15	20.01			
10	QPSK	50	0	20.15	20.28	20.10			
10	16QAM	1	36	20.18	20.36	20.32	21.3	0	
10	16QAM	1	26	20.08	20.12	20.03			
10	16QAM	1	49	20.08	20.24	20.16			
10	16QAM	25	0	20.20	20.24	20.06			
10	16QAM	25	12	20.07	20.07	20.05	21.3	0	
10	16QAM	25	25	20.04	20.01	19.96			
10	16QAM	50	0	20.16	20.18	19.95			
10	16QAM	1	0	20.08	19.99	20.24	21.3	0	
10	16QAM	1	25	20.07	20.22	20.03			
10	16QAM	1	49	20.07	20.15	20.08			
10	16QAM	25	0	20.09	20.20	20.07			
10	16QAM	25	12	20.01	20.18	19.91	21.3	0	
10	16QAM	25	25	19.98	20.02	19.98			
10	16QAM	50	0	20.13	20.12	19.90			
10	256QAM	1	0	19.32	19.51	19.40	20.5	0.8	
10	256QAM	1	49	19.37	19.56	19.34			
10	256QAM	25	0	19.45	19.37	19.40			
10	256QAM	25	12	19.32	19.32	19.28	20.5	0.8	
10	256QAM	25	25	19.06	19.41	19.30			
10	256QAM	50	0	19.21	19.40	19.40			
Channel									
Frequency (MHz)									
5	QPSK	1	0	20.12	20.37	20.44			
5	QPSK	1	12	20.11	20.32	20.33	21.3	0	
5	QPSK	1	24	20.15	20.18	20.30			
5	QPSK	12	0	20.31	20.33	20.17			
5	QPSK	12	7	20.05	20.18	20.09	21.3	0	
5	QPSK	12	13	20.10	20.21	19.99			
5	QPSK	25	0	20.17	20.23	20.12			
5	QPSK	25	7	20.16	20.41	20.28	21.3	0	
5	16QAM	1	12	20.17	20.16	20.08			
5	16QAM	1	24	20.06	20.17	20.13			
5	16QAM	12	0	20.16	20.16	20.05			
5	16QAM	12	7	20.06	20.13	20.07	21.3	0	
5	16QAM	12	13	20.07	20.09	19.85			
5	16QAM	25	0	20.17	20.17	19.80			
5	16QAM	1	0	20.09	20.04	20.23	21.3	0	
5	16QAM	1	12	20.04	20.25	20.06			
5	16QAM	1	24	20.05	20.15	20.15			
5	16QAM	12	0	20.00	20.19	20.08			
5	16QAM	12	7	19.98	20.06	19.96	21.3	0	
5	16QAM	12	13	19.98	20.03	19.93			
5	256QAM	1	0	19.33	19.57	19.44	20.5	0.8	
5	256QAM	1	12	19.50	19.51	19.30			
5	256QAM	1	24	19.32	19.57	19.36			
5	256QAM	12	0	19.44	19.52	19.44			
5	256QAM	12	7	19.34	19.58	19.34	20.5	0.8	
5	256QAM	12	13	19.22	19.46	19.11			
5	256QAM	25	0	19.27	19.47	19.24			
Channel									
Frequency (MHz)									
3	QPSK	1	0	20.13	20.38	20.35			
3	QPSK	1	8	20.10	20.25	20.15	21.3	0	
3	QPSK	1	14	20.15	20.20	20.24			
3	QPSK	8	0	20.28	20.31	20.22			
3	QPSK	8	4	20.01	20.15	20.03	21.3	0	
3	QPSK	8	7	20.12	20.27	19.98			
3	QPSK	16	0	20.13	20.13	20.06			
3	16QAM	1	8	20.12	20.36	20.23			
3	16QAM	1	8	20.08	20.14	20.14	21.3	0	
3	16QAM	1	14	20.08	20.24	20.19			
3	16QAM	8	0	20.22	20.18	20.12			
3	16QAM	8	4	19.97	20.12	19.98	21.3	0	
3	16QAM	8	7	20.02	20.09	19.98			
3	16QAM	16	0	20.10	20.18	19.95			
3	16QAM	1	0	20.10	19.84	20.16	21.3	0	
3	16QAM	1	8	20.03	20.16	20.18			
3	16QAM	1	14	20.04	20.18	20.18			
3	16QAM	8	0	20.06	20.16	20.21			
3	16QAM	8	7	19.96	20.11	19.98	21.3	0	
3	16QAM	8	7	19.93	19.95	19.90			
3	16QAM	16	0	20.08	20.15	20.10			
3	256QAM	1	0	19.41	19.44	19.37	20.5	0.8	
3	256QAM	1	8	19.50	19.47	19.48			
3	256QAM	1	14	19.46	19.62	19.42			
3	256QAM	8	0	19.60	19.62	19.44			
3	256QAM	8	4	19.20	19.55	19.45	20.5	0.8	
3	256QAM	8	7	19.06	19.35	19.21			
3	256QAM	16	0	19.33	19.38	19.48			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	20.12	20.26	20.26			
1.4	QPSK	1	3	20.02	20.22	20.21	21.3	0	
1.4	QPSK	1	5	20.07	20.17	20.20			
1.4	QPSK	3	0	20.27	20.31	20.13			
1.4	QPSK	3	3	20.19	20.27	20.16	21.3	0	
1.4	QPSK	3	5	20.13	20.25	20.19			
1.4	QPSK	6	0	20.17	20.17	20.14			
1.4	QPSK	6	3	20.08	20.15	20.12	21.3	0	
1.4	QPSK	6	5	20.12	20.05	20.09			
1.4	16QAM	1	3	20.11	20.24	20.12			
1.4	16QAM	1	6	20.18	20.15	20.12	21.3	0	
1.4	16QAM	3	0	20.06	20.17	19.97			
1.4	16QAM	3	3	20.03	20.13	20.08			
1.4	16QAM	6	0	20.16	20.23	20.19	21.3	0	
1.4	16QAM	1	0	20.07	19.98	20.10			
1.4	16QAM	1	3	20.05	20.20	20.09			
1.4	16QAM	1	6	20.09	20.14	20.14	21.3	0	
1.4	16QAM	3	0	20.09	20.24	20.05			
1.4	16QAM	3	3	20.14	20.18	20.18			
1.4	16QAM	6	0	19.97	20.05	19.99			
1.4	16QAM	6	3	19.93	20.09	20.08	21.3	0	
1.4	16QAM	6	6	19.82	19.92	19.84			
1.4	16QAM	12	0	19.87	19.85	19.84			
1.4	16QAM	3	0	19.87	19.30	19.38			
1.4	256QAM	1	0	19.36	19.51	19.38	20.5	0.8	
1.4	256QAM	1	3	19.48	19.52	19.35			
1.4</									



Band 2 Ant1 DS13 Simultaneous														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	16.36	16.54	16.41	16.7	0						
20	QPSK	1	49	16.30	16.59	16.31								
20	QPSK	1	99	16.14	16.49	16.46	16.7	0						
20	QPSK	50	0	16.30	16.54	16.41								
20	QPSK	50	24	16.16	16.44	16.18	16.7	0						
20	QPSK	50	50	16.22	16.16	16.17								
20	QPSK	100	0	16.29	16.53	16.42	16.7	0						
20	16QAM	100	0	16.27	16.54	16.40								
20	16QAM	1	49	16.06	16.27	16.07	16.7	0						
20	16QAM	1	99	16.23	16.38	16.41								
20	16QAM	50	0	16.21	16.30	16.31	16.7	0						
20	16QAM	50	24	16.24	16.26	16.22								
20	16QAM	50	50	16.10	16.21	16.06	16.7	0						
20	16QAM	100	0	16.37	16.37	16.38								
20	64QAM	1	0	16.27	16.41	16.21	16.7	0						
20	64QAM	1	49	16.15	16.24	16.33								
20	64QAM	50	0	16.31	16.34	16.36	16.7	0						
20	64QAM	50	24	16.32	16.20	16.09								
20	64QAM	50	50	16.26	16.30	16.30	16.7	0						
20	64QAM	100	0	16.38	16.41	16.19								
20	256QAM	1	49	16.15	16.24	16.33	16.7	0						
20	256QAM	1	99	16.21	16.29	16.16								
20	256QAM	50	0	16.33	16.21	16.24	16.7	0						
20	256QAM	50	24	16.08	16.28	16.02								
20	256QAM	50	50	16.15	16.16	16.05	16.7	0						
20	256QAM	100	0	16.33	16.32	16.28								
Channel														
Frequency (MHz)														
16	QPSK	1	0	16.29	16.48	16.32	16.7	0						
16	QPSK	1	37	16.16	16.39	16.26								
16	QPSK	1	74	16.01	16.39	16.27	16.7	0						
16	QPSK	36	0	16.27	16.31	16.37								
16	QPSK	36	25	16.16	16.39	16.31	16.7	0						
16	QPSK	36	39	16.19	16.07	16.07								
16	QPSK	75	0	16.46	16.46	16.33	16.7	0						
16	QPSK	75	0	16.17	16.44	16.22								
16	16QAM	1	37	16.26	16.26	16.26	16.7	0						
16	16QAM	1	74	16.09	16.35	16.14								
16	16QAM	36	0	16.12	16.26	16.17	16.7	0						
16	16QAM	36	20	16.20	16.23	16.18								
16	16QAM	36	25	16.29	16.29	16.10	16.7	0						
16	16QAM	75	0	16.29	16.26	16.16								
16	64QAM	1	0	16.20	16.52	16.15	16.7	0						
16	64QAM	1	37	16.33	16.33	16.22								
16	64QAM	1	74	16.16	16.16	16.33	16.7	0						
16	64QAM	36	0	16.29	16.22	16.26								
16	64QAM	36	25	16.26	16.37	16.37	16.7	0						
16	64QAM	75	0	16.26	16.26	16.16								
16	256QAM	1	37	16.21	16.14	16.16	16.7	0						
16	256QAM	1	74	16.16	16.16	16.16								
16	256QAM	36	0	16.26	16.26	16.16	16.7	0						
16	256QAM	36	20	16.22	16.25	16.22								
16	256QAM	36	39	16.11	16.05	16.01	16.7	0						
16	256QAM	75	0	16.30	16.20	16.09								
Channel														
Frequency (MHz)														
16	QPSK	1	0	16.33	16.33	16.33	16.7	0						
16	QPSK	1	25	16.26	16.07	16.24								
16	QPSK	1	49	16.05	16.44	16.32	16.7	0						
16	QPSK	25	0	16.33	16.33	16.33								
16	QPSK	25	12	16.11	16.41	16.11	16.7	0						
16	QPSK	25	26	16.10	16.09	16.06								
16	QPSK	50	0	16.33	16.33	16.33	16.7	0						
16	16QAM	1	0	16.17	16.43	16.29								
16	16QAM	1	26	16.09	16.24	16.22	16.7	0						
16	16QAM	25	0	16.06	16.30	16.14								
16	16QAM	25	12	16.13	16.17	16.18	16.7	0						
16	16QAM	25	16	16.07	16.16	16.08								
16	16QAM	50	0	16.27	16.34	16.14	16.7	0						
16	64QAM	1	0	16.15	16.54	16.17								
16	64QAM	1	24	16.26	16.06	16.20	16.7	0						
16	64QAM	1	49	16.16	16.20	16.36								
16	64QAM	25	0	16.26	16.29	16.33	16.7	0						
16	64QAM	25	12	16.23	16.23	16.02								
16	64QAM	25	26	16.19	16.23	16.02	16.7	0						
16	64QAM	50	0	16.32	16.29	16.14								
16	256QAM	1	0	16.25	16.25	16.14	16.7	0						
16	256QAM	1	26	16.18	16.10	16.16								
16	256QAM	1	49	16.11	16.16	16.14	16.7	0						
16	256QAM	25	0	16.20	16.30	16.13								
16	256QAM	25	12	16.03	16.20	16.02	16.7	0						
16	256QAM	25	26	16.10	16.06	16.02								
16	256QAM	50	0	16.25	16.23	16.19	16.7	0						
Channel														
Frequency (MHz)														
5	QPSK	1	0	16.34	16.34	16.34	16.7	0						
5	QPSK	1	12	16.25	16.10	16.16								
5	QPSK	1	24	16.06	16.44	16.33	16.7	0						
5	QPSK	12	0	16.34	16.34	16.36								
5	QPSK	12	7	16.04	16.38	16.12	16.7	0						
5	QPSK	12	13	16.12	16.11	16.12								
5	QPSK	25	0	16.17	16.46	16.31	16.7	0						
5	16QAM	1	0	16.21	16.42	16.30								
5	16QAM	1	12	16.22	16.23	16.22	16.7	0						
5	16QAM	1	24	16.17	16.31	16.29								
5	16QAM	12	0	16.09	16.29	16.17	16.7	0						
5	16QAM	12	7	16.16	16.16	16.16								
5	16QAM	12	13	16.03	16.16	16.03	16.7	0						
5	64QAM	1	0	16.32	16.26	16.09								
5	64QAM	1	0	16.21	16.54	16.17	16.7	0						
5	64QAM	1	12	16.04	16.17	16.29								
5	64QAM	1	24	16.13	16.17	16.34	16.7	0						
5	64QAM	12	0	16.24	16.23	16.34								
5	64QAM	12	7	16.20	16.17	16.03	16.7	0						
5	64QAM	12	13	16.19	16.22	16.03								
5	64QAM	25	0	16.36	16.36	16.17	16.7	0						
5	256QAM	1	0	16.22	16.51	16.23								
5	256QAM	1	12	16.17	16.14	16.10	16.7	0						
5	256QAM	1	24	16.06	16.44	16.33	16.7	0						
5	256QAM	12	0	16.34	16.34	16.36								
5	256QAM	12	7	16.04	16.38	16.12	16.7	0						
5	256QAM	12	13	16.12	16.11	16.12								
5	256QAM	25	0	16.17	16.46	16.31	16.7	0						
5	256QAM	25	12	16.03	16.20	16.02								
5	256QAM	25	26	16.10	16.06	16.02	16.7	0						
5	256QAM	50	0	16.25	16.23	16.19								
5	256QAM	50	0	16.30	16.26	16.23	16.7	0						
Channel														
Frequency (MHz)														
3	QPSK	1	0	16.37	16.54	16.37	16.7	0						
3	QPSK	1	49	16.19	16.05	16.20								
3	QPSK	1	99	16.07	16.46	16.39	16.7	0						
3	QPSK	8	0	16.18	16.51	16.30								
3	QPSK	8	4	16.12	16.41	16.11	16.7	0						
3	QPSK	15	0	16.08	16.48	16.24								
3	16QAM	1	0	16.26	16.40	16.36	16.7	0						
3	16QAM	1	9	16.14	16.42	16.21								
3	16QAM	1	18	16.02	16.14	16.14	16.7	0						
3	16QAM	8	0	16.18	16.21	16.10								
3	16QAM	8	9	16.12	16.14	16.14	16.7	0						
3	16QAM	15	0	16.09	16.13	16.10								
3	64QAM	1	0	16.27	16.29	16.12	16.7	0						
3	64QAM	1	9	16.19	16.27	16.19								
3	64QAM	1	18	16.11	16.20	16.20	16.7	0						
3	64QAM	1	18	16.12	16.16	16.16								
3	64QAM	8	0	16.19	16.12	16.00	16.7	0						
3	64QAM	8	9	16.21	16.27	16.21								
3	64QAM	15	0	16.32	16.35	16.13	16.7	0						
3	256QAM	1	0	16.32	16.35	16.13								
3	256QAM	1	9	16.28	16.12	16.12	16.7	0						
3	256QAM	15	0	16.30	16.28	16.16								
3	256QAM	15	0	16.30	16.28	16.16	16.7	0						
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	16.26	16.65	16.26	16.7	0						
1.4	QPSK	1	4	16.14	16.22	16.14								
1.4	QPSK	3	0	16.05	16.42	16.34	16.7	0						
1.4	QPSK	3	0	16.22	16.61	16.27								
1.4	QPSK	3	0	16.38	16.38	16.38	16.7	0						
1.4	QPSK	3	0	16.09	16.05	16.05								
1.4	QPSK	6	0	16.21	16.39	16.28	16.7	0						
1.4	QPSK	6	0	16.42	16.42	16.42								
1.4	16QAM	1	0	16.32	16.14	16.14	16.7	0						
1.4	16QAM	3	0	16.20	16.28	16.29								
1.4	16QAM	3	0	16.17	16.19	16.19	16.7	0						
1.4	16QAM	3	1	16.15	16.12	16.15								
1.4	16QAM	3	0	16.22	16.58	16.41	16.7	0						
1.4	16QAM	3	0	16.11	16.17	16.21								
1.4	16QAM	3	0	16.20	16.20	16.20	16.7	0						
1.4	16QAM	3	0	16.24	16.21	16.23								
1.4	64Q													



Band 2 Ant2 DS13 Simultaneous														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	APR3 (dB)						
Channel														
1867.5 1869 1870.5														
20	QPSK	1	0	21.40	21.57	21.40	22.3	0						
20	QPSK	1	49	21.37	21.47	21.37								
20	QPSK	1	99	21.43	21.40	21.35								
20	QPSK	50	0	21.36	21.44	21.36								
20	QPSK	50	24	21.16	21.41	21.16	22.3	0						
20	QPSK	50	50	21.26	21.43	21.16								
20	QPSK	100	0	21.26	21.35	21.26								
20	16QAM	50	0	21.34	21.54	21.37								
20	16QAM	1	49	21.14	21.42	21.28	22.3	0						
20	16QAM	1	99	21.32	21.30	21.25								
20	16QAM	50	0	21.26	21.36	21.22								
20	16QAM	50	24	21.06	21.44	21.10								
20	16QAM	50	50	21.22	21.21	21.07	22	0.3						
20	64QAM	100	0	21.23	21.31	21.21								
20	64QAM	1	0	21.23	21.30	21.23								
20	64QAM	1	49	21.15	21.37	21.17								
20	64QAM	50	0	20.20	20.52	20.20	21	1.3						
20	64QAM	50	24	20.40	20.41	20.36								
20	64QAM	50	50	20.21	20.38	20.40								
20	64QAM	100	0	20.44	20.52	20.29								
20	256QAM	1	49	18.78	18.90	18.99	19	3.3						
20	256QAM	1	99	18.69	18.82	18.89								
20	256QAM	50	0	18.63	18.90	18.87								
20	256QAM	50	24	18.61	18.71	18.87								
20	256QAM	50	50	18.63	18.79	18.88	19	3.3						
20	256QAM	100	0	18.71	18.80	18.84								
Channel														
1867.5 1869 1870.5														
16	QPSK	1	0	21.38	21.43	21.31	22.3	0						
16	QPSK	1	37	21.32	21.33	21.13								
16	QPSK	1	74	21.32	21.28	21.24								
16	QPSK	36	0	21.28	21.42	21.20								
16	QPSK	36	37	21.10	21.33	21.09	22.3	0						
16	QPSK	36	74	21.14	21.30	21.09								
16	QPSK	75	0	21.23	21.28	21.21								
16	16QAM	1	74	21.32	21.46	21.35								
16	16QAM	1	37	21.29	21.42	21.21	22.3	0						
16	16QAM	1	74	21.38	21.50	21.29								
16	16QAM	36	0	21.27	21.34	21.19								
16	16QAM	36	20	21.13	21.28	21.17								
16	16QAM	36	20	21.13	21.28	21.17	22	0.3						
16	64QAM	1	37	21.16	21.27	21.14								
16	64QAM	1	0	21.24	21.45	21.18								
16	64QAM	1	37	21.35	21.39	21.27								
16	64QAM	1	74	21.25	21.22	21.12	21	1.3						
16	64QAM	36	0	20.30	20.45	20.35								
16	64QAM	36	20	20.30	20.38	20.27								
16	64QAM	36	39	20.11	20.15	20.35								
16	64QAM	75	0	20.28	20.38	20.06	19	3.3						
16	256QAM	1	0	18.53	18.60	18.60								
16	256QAM	1	37	18.57	18.91	18.81								
16	256QAM	1	74	18.62	18.86	18.54								
16	256QAM	36	0	18.56	18.85	18.85	19	3.3						
16	256QAM	36	20	18.35	18.52	18.80								
16	256QAM	36	39	18.48	18.62	18.58								
16	256QAM	75	0	18.49	18.63	18.44								
Channel														
1869 1869 1869														
10	QPSK	1	0	21.68	21.68	21.68	22.3	0						
10	QPSK	1	26	21.34	21.41	21.13								
10	QPSK	1	49	21.35	21.30	21.27								
10	QPSK	36	0	21.36	21.50	21.43								
10	QPSK	12	7	21.04	21.30	21.17	22.3	0						
10	QPSK	12	13	21.13	21.29	21.10								
10	QPSK	20	0	21.21	21.32	21.24								
10	16QAM	1	0	21.31	21.52	21.33								
10	16QAM	1	26	21.35	21.34	21.23	22.3	0						
10	16QAM	1	49	21.11	21.36	21.21								
10	16QAM	12	0	21.33	21.38	21.25								
10	16QAM	12	7	21.08	21.33	21.19								
10	16QAM	12	13	21.16	21.37	21.08	22	0.3						
10	16QAM	25	0	21.14	21.24	21.16								
10	64QAM	1	0	21.25	21.51	21.18								
10	64QAM	1	12	21.01	21.40	21.23								
10	64QAM	1	26	21.29	21.18	21.15	21	1.3						
10	64QAM	12	0	20.22	20.36	20.49								
10	64QAM	12	7	20.30	20.30	20.46								
10	64QAM	12	13	20.03	20.35	20.20								
10	64QAM	20	0	20.24	20.25	20.12	19	3.3						
10	256QAM	1	0	18.59	18.66	18.68								
10	256QAM	1	12	18.62	18.86	18.83	19	3.3						
10	256QAM	1	26	18.65	18.89	18.86								
10	256QAM	12	0	18.49	18.84	18.82								
10	256QAM	12	7	18.56	18.68	18.85								
10	256QAM	12	13	18.48	18.65	18.49	19	3.3						
10	256QAM	20	0	18.46	18.65	18.43								
10	256QAM	25	0	18.55	18.62	18.43								
Channel														
1869.5 1869 1870.5														
3	QPSK	1	0	21.62	21.61	21.30	22.3	0						
3	QPSK	1	12	21.27	21.38	21.15								
3	QPSK	1	24	21.31	21.37	21.29								
3	QPSK	8	0	21.32	21.41	21.26								
3	QPSK	8	4	21.13	21.28	21.18	22.3	0						
3	QPSK	8	12	21.19	21.38	21.14								
3	QPSK	15	0	21.23	21.22	21.18								
3	16QAM	1	0	21.33	21.49	21.17								
3	16QAM	1	12	21.33	21.34	21.26	22.3	0						
3	16QAM	1	24	21.17	21.30	21.25								
3	16QAM	8	4	21.03	21.33	21.19								
3	16QAM	8	7	21.23	21.41	21.03								
3	16QAM	8	12	21.27	21.33	21.17	22	0.3						
3	16QAM	8	0	21.30	21.41	21.21								
3	16QAM	8	8	21.08	21.38	21.20								
3	16QAM	8	15	21.13	21.48	21.13								
3	16QAM	8	0	20.24	20.59	20.40	21	1.3						
3	16QAM	8	8	20.16	20.32	20.42								
3	16QAM	8	15	20.13	20.34	20.17								
3	16QAM	16	0	20.33	20.34	20.13								
3	256QAM	1	0	18.73	18.81	18.86	19	3.3						
3	256QAM	1	12	18.68	18.94	18.84								
3	256QAM	1	24	18.64	18.86	18.86								
3	256QAM	8	0	18.80	18.72	18.58								
3	256QAM	8	8	18.64	18.59	18.66	19	3.3						
3	256QAM	8	7	18.26	18.53	18.57								
3	256QAM	16	0	18.66	18.52	18.57								
Channel														
1869.5 1869 1870.5														
1.4	QPSK	1	0	21.34	21.53	21.27	22.3	0						
1.4	QPSK	1	12	21.33	21.42	21.44								
1.4	QPSK	1	5	21.35	21.34	21.26								
1.4	QPSK	3	0	21.36	21.52	21.27								
1.4	QPSK	3	12	21.35	21.38	21.44	22.3	0						
1.4	QPSK	3	3	21.40	21.28	21.28								
1.4	QPSK	6	0	21.34	21.44	21.31								
1.4	QPSK	6	12	21.32	21.39	21.22								
1.4	QPSK	6	15	21.04	21.30	21.13	22.3	0						
1.4	QPSK	6	3	21.41	21.36	21.30								
1.4	16QAM	1	0	21.27	21.59	21.22								
1.4	16QAM	1	12	21.34	21.41	21.37								
1.4	16QAM	3	0	21.15	21.29	21.13	22	0.3						
1.4	16QAM	3	12	21.03	21.61	21.03								
1.4	16QAM	3	0	21.11	21.37	21.18								
1.4	16QAM	3	12	21.28	21.51	21.35								
1.4	16QAM	3	0	20.55	21.05	20.88	21	1.3						
1.4	16QAM	3	12	20.55	20.93	20.96								
1.4	16QAM	3	0	20.33	20.50	20.89								
1.4	16QAM	3	12	20.33	20.53	20.81								
1.4	256QAM	1	0	18.53	18.92	18.83	19	3.3						
1.4	256QAM	1	5	18.63	18.87	18.52								
1.4	256QAM	1	12	18.53	18.86	18.86								
1.4	256QAM	3	0	18.39	18.66	18.52								
1.4	256QAM	3	12	18.53	18.66	18.52	19	3.3						
1.4	256QAM	3	0	18.39	18.66	18.52								
1.4	256QAM	3	12	18.39	18.66	18.52								
1.4	256QAM	3	12	18.39	18.66	18.52								

Band 2 Ant3 DS3 Simultaneous														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	18.30	18.34	18.33	19.7	0						
20	QPSK	1	49	18.23	18.42	18.33								
20	QPSK	1	99	18.37	18.22	18.26	19.7	0						
20	QPSK	50	0	18.21	18.30	18.22								
20	QPSK	50	24	18.05	18.29	18.17	19.7	0						
20	QPSK	50	50	18.13	18.28	18.16								
20	QPSK	100	0	18.17	18.24	18.16	19.7	0						
20	16QAM	50	0	18.33	18.41	18.33								
20	16QAM	1	49	18.02	18.33	18.18	19.7	0						
20	16QAM	1	99	18.17	18.21	18.25								
20	16QAM	50	0	18.31	18.21	18.28	19.7	0						
20	16QAM	50	24	18.28	18.46	18.31								
20	16QAM	50	50	18.17	18.38	18.19	19.7	0						
20	16QAM	100	0	18.32	18.29	18.25								
20	64QAM	1	49	18.13	18.29	18.21	19.7	0						
20	64QAM	1	99	18.11	18.35	18.30								
20	64QAM	50	0	18.18	18.14	18.18	19.7	0						
20	64QAM	50	24	18.30	18.42	18.15								
20	64QAM	50	50	18.00	18.26	18.17	19.7	0						
20	64QAM	100	0	18.17	18.28	18.25								
20	256QAM	1	49	18.29	18.28	18.23	19.7	0						
20	256QAM	1	99	18.32	18.53	18.30								
20	256QAM	50	0	18.32	18.36	18.28	19.7	0						
20	256QAM	50	24	18.18	18.30	18.53								
20	256QAM	50	50	18.35	18.19	18.42	19.7	0						
20	256QAM	100	0	18.32	18.32	18.25								
Channel														
Frequency (MHz)														
18	QPSK	1	0	18.20	18.45	18.19	19.7	0						
18	QPSK	1	37	18.18	18.38	18.11								
18	QPSK	1	74	18.33	18.16	18.08	19.7	0						
18	QPSK	36	0	18.17	18.26	18.18								
18	QPSK	36	25	17.97	18.27	18.10	19.7	0						
18	QPSK	36	39	18.10	18.14	18.05								
18	16QAM	75	0	18.08	18.14	18.06	19.7	0						
18	16QAM	1	39	18.22	18.06	18.06								
18	16QAM	1	37	17.97	18.22	18.13	19.7	0						
18	16QAM	1	74	18.06	18.16	18.03								
18	16QAM	36	0	18.29	18.13	18.25	19.7	0						
18	16QAM	36	20	18.15	18.39	18.23								
18	16QAM	36	29	18.24	18.20	18.22	19.7	0						
18	16QAM	75	0	18.24	18.20	18.22								
18	64QAM	1	0	18.34	18.22	18.10	19.7	0						
18	64QAM	1	37	18.11	18.23	18.08								
18	64QAM	1	74	17.97	18.18	17.99	19.7	0						
18	64QAM	36	0	18.10	18.05	18.14								
18	64QAM	36	29	18.23	18.23	18.28	19.7	0						
18	64QAM	36	39	17.94	18.22	18.11								
18	64QAM	75	0	18.03	18.15	18.22	19.7	0						
18	256QAM	1	0	18.06	18.06	18.06								
18	256QAM	1	37	18.22	18.21	18.15	19.7	0						
18	256QAM	1	74	18.23	18.42	18.28								
18	256QAM	36	0	18.21	18.34	18.20	19.7	0						
18	256QAM	36	20	18.08	18.15	18.44								
18	256QAM	36	39	18.29	18.06	18.28	19.7	0						
18	256QAM	75	0	18.21	18.16	18.14								
Channel														
Frequency (MHz)														
18	QPSK	1	0	18.05	18.00	18.05	19.7	0						
18	QPSK	1	25	18.20	18.30	18.12								
18	QPSK	1	49	18.25	18.14	18.18	19.7	0						
18	QPSK	25	0	18.18	18.26	18.17								
18	QPSK	25	12	17.98	18.22	18.04	19.7	0						
18	QPSK	25	25	18.10	18.28	18.12								
18	16QAM	50	0	18.00	18.17	18.13	19.7	0						
18	16QAM	1	0	18.26	18.28	18.09								
18	16QAM	1	26	17.94	18.22	18.14	19.7	0						
18	16QAM	1	49	18.08	18.21	18.05								
18	16QAM	25	0	18.06	18.12	18.08	19.7	0						
18	16QAM	25	12	18.07	18.13	18.09								
18	16QAM	25	25	17.98	18.13	18.09	19.7	0						
18	16QAM	50	0	18.13	18.22	18.21								
18	256QAM	1	0	18.13	18.06	18.06	19.7	0						
18	256QAM	1	26	18.25	18.18	18.09								
18	256QAM	1	49	18.18	18.42	18.21	19.7	0						
18	256QAM	25	0	18.24	18.30	18.25								
18	256QAM	25	12	18.05	18.19	18.47	19.7	0						
18	256QAM	25	25	18.26	18.07	18.53								
18	256QAM	50	0	18.28	18.22	18.14								
Channel														
Frequency (MHz)														
5	QPSK	1	0	18.25	18.40	18.27	19.7	0						
5	QPSK	1	12	18.15	18.30	18.11								
5	QPSK	1	24	18.24	18.14	18.08	19.7	0						
5	QPSK	12	0	18.16	18.16	18.04								
5	QPSK	12	7	17.99	18.16	18.04	19.7	0						
5	QPSK	12	13	18.02	18.25	18.11								
5	QPSK	25	0	18.13	18.30	18.07	19.7	0						
5	16QAM	1	0	18.28	18.35	18.10								
5	16QAM	1	12	17.97	18.20	18.09	19.7	0						
5	16QAM	1	24	18.09	18.11	18.05								
5	16QAM	12	0	18.23	18.15	18.20	19.7	0						
5	16QAM	12	7	18.23	18.43	18.25								
5	16QAM	12	13	18.07	18.06	18.13	19.7	0						
5	16QAM	25	0	18.28	18.24	18.19								
5	64QAM	1	0	18.27	18.15	18.12	19.7	0						
5	64QAM	1	12	18.06	18.16	18.09								
5	64QAM	1	24	18.09	18.18	17.98	19.7	0						
5	64QAM	12	0	18.15	18.11	18.15								
5	64QAM	12	7	18.21	18.34	18.07	19.7	0						
5	64QAM	12	13	17.96	18.20	18.08								
5	64QAM	25	0	18.07	18.17	18.15	19.7	0						
5	256QAM	1	0	18.02	18.20	18.20								
5	256QAM	1	12	18.22	18.19	18.10	19.7	0						
5	256QAM	1	24	18.24	18.49	18.30								
5	256QAM	12	0	18.32	18.31	18.25	19.7	0						
5	256QAM	12	7	18.07	18.22	18.42								
5	256QAM	12	13	18.02	18.19	18.03	19.7	0						
5	256QAM	25	0	18.28	18.25	18.21								
Channel														
Frequency (MHz)														
3	QPSK	1	0	18.17	18.36	18.23	19.7	0						
3	QPSK	1	8	18.18	18.38	18.08								
3	QPSK	1	16	18.24	18.17	18.18	19.7	0						
3	QPSK	8	0	18.09	18.24	18.08								
3	QPSK	8	4	17.98	18.23	18.08	19.7	0						
3	QPSK	8	12	18.08	18.19	18.03								
3	QPSK	16	0	18.06	18.20	18.08	19.7	0						
3	QPSK	16	8	18.21	18.32	18.09								
3	16QAM	1	0	18.25	18.35	18.25	19.7	0						
3	16QAM	1	16	18.16	18.34	18.14								
3	16QAM	8	0	18.08	18.11	18.24	19.7	0						
3	16QAM	8	4	18.22	18.44	18.16								
3	16QAM	8	8	18.05	18.38	18.17	19.7	0						
3	16QAM	16	0	18.22	18.22	18.23								
3	16QAM	16	8	18.28	18.22	18.11	19.7	0						
3	64QAM	1	8	18.02	18.17	18.18								
3	64QAM	1	16	18.08	18.37	17.97	19.7	0						
3	64QAM	8	0	18.16	18.02	18.15								
3	64QAM	8	4	18.22	18.39	18.09	19.7	0						
3	64QAM	8	8	18.07	18.32	18.13								
3	64QAM	16	0	18.10	18.17	18.13	19.7	0						
3	256QAM	1	0	18.14	18.25	18.20								
3	256QAM	1	8	18.15	18.33	18.11	19.7	0						
3	256QAM	1	16	18.20	18.46	18.21								
3	256QAM	8	0	18.33	18.35	18.43	19.7	0						
3	256QAM	8	4	18.16	18.21	18.30								
3	256QAM	8	7	18.25	18.09	18.32	19.7	0						
3	256QAM	16	0	18.30	18.27	18.14								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	18.23	18.39	18.20	19.7	0						
1.4	QPSK	1	8	18.14	18.35	18.27								
1.4	QPSK	1	16	18.25	18.16	18.08	19.7	0						
1.4	QPSK	3	0	18.10	18.21	18.10								
1.4	QPSK	3	8	18.03	18.23	18.03	19.7	0						
1.4	QPSK	3	16	18.10	18.16	18.05								
1.4	QPSK	8	0	18.07	18.21	18.05	19.7	0						
1.4	QPSK	8	4	18.27	18.38	18.07								
1.4	QPSK	8	7	17.99	18.19	18.05	19.7	0						
1.4	QPSK	16	0	18.13	18.09	18.13								
1.4	QPSK	16	8	18.22	18.42	18.11	19.7	0						
1.4	QPSK	16	16	18.04	18.30	18.07								
1.4	16QAM	1	0	18.27	18.37	18.27	19.7	0						
1.4	16QAM	1	8	18.18	18.32	18.18								
1.4	16QAM	1	16	18.22	18.22	18.18	19.7	0						
1.4	16QAM	3	0	18.32	18.22	18.18								
1.4	16QAM	3	8	18.14	18.23	18.08	19.7	0						
1.4	16QAM	3	16	18.07	18.13	18.07								
1.4	16QAM	8	0	18.07	18.15	18.17	19.7	0						
1.4	16QAM	8	4	18.27	18.33	18.07								



Reduced Power Mode for Other PA DS110

Band 2 Ant0 DS110														
RV (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-on time (ms)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	17.99	18.21	17.98	19.1	0						
20	QPSK	1	49	17.94	18.09	17.98								
20	QPSK	1	99	17.85	17.85	17.85	19.1	0						
20	QPSK	50	0	17.90	18.00	17.85								
20	QPSK	50	24	17.70	18.00	17.85	19.1	0						
20	QPSK	50	50	17.87	17.90	17.75								
20	QPSK	100	0	17.88	17.87	17.81	19.1	0						
20	16QAM	1	0	17.85	17.94	17.87								
20	16QAM	1	49	17.84	17.99	17.79	19.1	0						
20	16QAM	50	0	17.86	17.82	17.75								
20	16QAM	50	24	17.64	17.80	17.77	19.1	0						
20	16QAM	50	50	17.96	17.88	17.76								
20	16QAM	100	0	17.82	17.75	17.63	19.1	0						
20	16QAM	1	49	17.92	17.88	17.76								
20	16QAM	1	99	17.60	17.65	18.00	19.1	0						
20	16QAM	50	0	17.86	17.85	17.80								
20	16QAM	50	24	17.82	17.87	17.76	19.1	0						
20	16QAM	50	50	17.73	17.83	17.75								
20	256QAM	1	0	17.97	17.96	17.88	19.1	0						
20	256QAM	1	49	17.74	18.07	17.78								
20	256QAM	1	99	17.68	18.09	17.81	19.1	0						
20	256QAM	50	0	17.55	17.95	17.64								
20	256QAM	50	24	17.80	17.84	17.64	19.1	0						
20	256QAM	50	50	17.66	17.88	17.74								
20	256QAM	100	0	17.81	17.80	17.78								
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.07	18.00	18.00	19.1	0						
15	QPSK	1	37	17.98	18.14	17.95								
15	QPSK	1	74	17.76	18.01	17.88	19.1	0						
15	QPSK	36	0	17.77	17.98	17.93								
15	QPSK	36	20	17.68	17.88	17.79	19.1	0						
15	QPSK	36	39	17.93	17.81	17.80								
15	QPSK	75	0	17.84	17.81	17.74	19.1	0						
15	16QAM	1	0	17.83	17.81	17.85								
15	16QAM	1	37	17.80	17.81	17.87	19.1	0						
15	16QAM	1	74	17.57	17.86	17.70								
15	16QAM	36	0	17.84	17.69	17.67	19.1	0						
15	16QAM	36	20	17.58	17.68	17.75								
15	16QAM	36	39	17.84	17.77	17.65	19.1	0						
15	16QAM	75	0	17.49	17.72	17.54								
15	16QAM	1	49	17.61	17.50	17.72	19.1	0						
15	16QAM	1	37	17.81	17.79	17.67								
15	16QAM	36	0	17.85	17.60	17.65	19.1	0						
15	16QAM	36	20	17.72	17.79	17.80								
15	16QAM	36	39	17.76	17.75	17.72	19.1	0						
15	16QAM	75	0	17.79	17.82	17.84								
15	256QAM	1	0	17.91	17.89	17.85	19.1	0						
15	256QAM	1	37	17.85	17.99	17.98								
15	256QAM	1	74	17.55	17.99	17.98	19.1	0						
15	256QAM	36	0	17.48	17.86	17.42								
15	256QAM	36	20	17.72	17.79	17.80	19.1	0						
15	256QAM	36	39	17.62	17.74	17.64								
15	256QAM	75	0	17.71	17.71	17.45								
Channel														
Frequency (MHz)														
10	QPSK	1	0	18.05	18.00	18.00	19.1	0						
10	QPSK	1	25	17.87	18.05	17.86								
10	QPSK	1	49	17.75	18.00	17.87	19.1	0						
10	QPSK	25	0	17.76	17.90	17.77								
10	QPSK	25	12	17.67	17.94	17.77	19.1	0						
10	QPSK	25	24	17.88	17.86	17.84								
10	QPSK	50	0	17.75	17.79	17.78	19.1	0						
10	16QAM	1	0	17.87	17.81	17.84								
10	16QAM	1	25	17.75	17.88	17.85	19.1	0						
10	16QAM	1	49	17.58	17.85	17.65								
10	16QAM	25	0	17.80	17.78	17.68	19.1	0						
10	16QAM	25	12	17.56	17.75	17.69								
10	16QAM	25	25	17.90	17.78	17.68	19.1	0						
10	16QAM	50	0	17.86	17.86	17.84								
10	16QAM	1	0	17.60	17.92	17.73	19.1	0						
10	16QAM	1	25	17.86	17.82	17.59								
10	16QAM	25	0	17.85	17.60	17.65	19.1	0						
10	16QAM	25	0	17.68	17.61	17.62								
10	16QAM	25	12	17.59	17.78	17.73	19.1	0						
10	16QAM	25	25	17.88	17.88	17.88								
10	16QAM	50	0	17.91	17.92	17.85	19.1	0						
10	256QAM	1	0	17.94	17.84	17.80								
10	256QAM	1	25	17.65	17.95	17.85	19.1	0						
10	256QAM	1	49	17.58	17.99	17.98								
10	256QAM	25	0	17.46	17.92	17.46	19.1	0						
10	256QAM	25	12	17.70	17.83	17.81								
10	256QAM	25	25	17.55	17.76	17.70	19.1	0						
10	256QAM	50	0	17.76	17.68	17.48								
Channel														
Frequency (MHz)														
5	QPSK	1	0	17.91	18.21	17.94	19.1	0						
5	QPSK	1	12	17.85	18.05	17.95								
5	QPSK	1	24	17.79	18.08	17.87	19.1	0						
5	QPSK	12	0	17.83	17.92	17.82								
5	QPSK	12	7	17.67	17.88	17.80	19.1	0						
5	QPSK	12	13	17.85	17.82	17.82								
5	QPSK	25	0	17.80	17.81	17.74	19.1	0						
5	16QAM	1	0	17.82	17.84	17.82								
5	16QAM	1	12	17.66	17.85	17.70	19.1	0						
5	16QAM	1	24	17.99	17.82	17.71								
5	16QAM	12	0	17.84	17.78	17.73	19.1	0						
5	16QAM	12	7	17.57	17.69	17.64								
5	16QAM	12	13	17.85	17.78	17.62	19.1	0						
5	16QAM	25	0	17.67	17.68	17.68								
5	16QAM	1	0	17.53	17.69	17.69	19.1	0						
5	16QAM	1	12	17.84	17.78	17.58								
5	16QAM	1	24	17.48	17.66	17.67	19.1	0						
5	16QAM	12	0	17.65	17.61	17.59								
5	16QAM	12	7	17.55	17.84	17.69	19.1	0						
5	16QAM	12	13	17.64	17.81	17.67								
5	16QAM	25	0	17.68	17.68	17.68	19.1	0						
5	16QAM	25	0	17.53	17.69	17.69								
5	16QAM	25	12	17.70	17.79	17.73	19.1	0						
5	16QAM	25	25	17.88	17.88	17.88								
5	16QAM	50	0	17.91	17.92	17.85	19.1	0						
5	256QAM	1	0	17.94	17.84	17.80								
5	256QAM	1	12	17.66	17.95	17.86	19.1	0						
5	256QAM	1	24	17.58	17.99	17.98								
5	256QAM	25	0	17.46	17.92	17.46	19.1	0						
5	256QAM	25	12	17.70	17.83	17.81								
5	256QAM	25	25	17.55	17.76	17.70	19.1	0						
5	256QAM	50	0	17.76	17.68	17.48								
Channel														
Frequency (MHz)														
3	QPSK	1	0	17.89	18.19	17.86	19.1	0						
3	QPSK	1	8	17.88	18.02	17.85								
3	QPSK	1	16	17.73	18.06	17.80	19.1	0						
3	QPSK	8	0	17.86	18.03	17.80								
3	QPSK	8	4	17.61	17.96	17.79	19.1	0						
3	QPSK	8	12	17.84	17.92	17.82								
3	QPSK	15	0	17.82	17.87	17.72	19.1	0						
3	16QAM	1	0	17.86	17.81	17.81								
3	16QAM	1	8	17.55	17.93	17.62	19.1	0						
3	16QAM	1	16	17.85	17.79	17.62								
3	16QAM	8	0	17.80	17.72	17.62	19.1	0						
3	16QAM	8	7	17.51	17.84	17.61								
3	16QAM	15	0	17.89	17.74	17.59	19.1	0						
3	16QAM	15	8	17.68	17.68	17.51								
3	16QAM	1	8	17.88	17.78	17.67	19.1	0						
3	16QAM	1	16	17.61	17.91	17.64								
3	16QAM	8	0	17.68	17.61	17.55	19.1	0						
3	16QAM	8	4	17.58	17.78	17.65								
3	16QAM	8	12	17.80	17.86	17.66	19.1	0						
3	16QAM	15	0	17.76	17.79	17.61								
3	256QAM	1	0	17.87	17.88	17.79	19.1	0						
3	256QAM	1	8	17.60	17.95	17.74								
3	256QAM	1	16	17.60	17.99	17.81	19.1	0						
3	256QAM	8	0	17.49	17.81	17.64								
3	256QAM	8	7	17.45	17.73	17.65	19.1	0						
3	256QAM	15	0	17.56	17.82	17.66								
3	256QAM	15	0	17.76	17.68	17.56	19.1	0						
3	256QAM	15	8	17.67	17.68	17.56								
3	256QAM	1	0	17.80	17.80	17.70	19.1	0						
3	256QAM	1	8	17.54	17.73	17.72								
3	256QAM	1	16	17.60	17.86	17.66	19.1	0						
3	256QAM	15	0	17.76	17.79	17.61								
3	256QAM	1	0	17.67	17.87	17.69	19.1	0						
3	256QAM	1	16	17.60	17.99	17.81								
3	256QAM	8	0	17.49	17.81	17.64	19.1	0						
3	256QAM	8	7	17.45	17.73	17.65								
3	256QAM	15	0	17.56	17.82	17.66	19.1	0						
3	256QAM	15	8	17.60	17.62	17.55								
3	256QAM	1	0	17.84	17.73	17.72	19.1	0						
3	256QAM													



Band 2 Ant1 DS10														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 18750	Power Mid Ch./Freq. 18800	Power High Ch./Freq. 18850	Turn-up (dB)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	11.76	11.83	11.84	13	0						
20	QPSK	1	49	11.87	11.88	11.84								
20	QPSK	1	99	11.99	11.98	11.87								
20	QPSK	50	0	11.75	11.76	11.58								
20	QPSK	50	24	11.87	11.88	11.83	13	0						
20	QPSK	50	50	11.47	11.42	11.50								
20	QPSK	100	0	11.65	11.75	11.50								
20	16QAM	1	0	11.65	11.65	11.65								
20	16QAM	1	49	11.47	11.50	11.39	13	0						
20	16QAM	1	99	11.48	11.52	11.44								
20	16QAM	50	0	11.43	11.66	11.50								
20	16QAM	50	24	11.59	11.49	11.27								
20	16QAM	50	50	11.24	11.47	11.26	13	0						
20	16QAM	100	0	11.55	11.71	11.44								
20	64QAM	1	0	11.66	11.71	11.66								
20	64QAM	1	49	11.40	11.42	11.46								
20	64QAM	1	99	11.39	11.60	11.50	13	0						
20	64QAM	50	0	11.62	11.72	11.38								
20	64QAM	50	24	11.80	11.42	11.42								
20	64QAM	50	50	11.42	11.56	11.34								
20	64QAM	100	0	11.71	11.65	11.48	13	0						
20	256QAM	1	49	11.48	11.48	11.36								
20	256QAM	1	99	11.46	11.59	11.54								
20	256QAM	50	0	11.56	11.48	11.36								
20	256QAM	50	24	11.50	11.51	11.52	13	0						
20	256QAM	50	50	11.40	11.44	11.41								
20	256QAM	100	0	11.25	11.25	11.25								
Channel														
Frequency (MHz)														
16	QPSK	1	0	11.62	11.74	11.52	13	0						
16	QPSK	1	37	11.46	11.38	11.28								
16	QPSK	1	74	11.46	11.53	11.46								
16	QPSK	36	0	11.61	11.69	11.54								
16	QPSK	36	25	11.44	11.51	11.40	13	0						
16	QPSK	36	39	11.38	11.40	11.38								
16	16QAM	75	0	11.57	11.64	11.41								
16	16QAM	1	154	11.54	11.54	11.39								
16	16QAM	1	37	11.41	11.42	11.27	13	0						
16	16QAM	1	74	11.42	11.59	11.47								
16	16QAM	36	0	11.52	11.55	11.53								
16	16QAM	36	20	11.49	11.49	11.23								
16	16QAM	36	20	11.49	11.49	11.23	13	0						
16	16QAM	75	0	11.68	11.59	11.45								
16	256QAM	1	0	11.62	11.54	11.44								
16	256QAM	1	37	11.37	11.45	11.16								
16	256QAM	1	74	11.37	11.47	11.40	13	0						
16	256QAM	36	0	11.56	11.62	11.36								
16	256QAM	36	20	11.43	11.37	11.39								
16	256QAM	36	39	11.43	11.38	11.32								
16	256QAM	75	0	11.43	11.51	11.37	13	0						
16	256QAM	100	0	11.25	11.25	11.25								
Channel														
Frequency (MHz)														
16	QPSK	1	0	11.64	11.73	11.51			13	0				
16	QPSK	1	25	11.53	11.38	11.37								
16	QPSK	1	49	11.48	11.54	11.51								
16	QPSK	25	0	11.73	11.27	11.38								
16	QPSK	25	12	11.51	11.49	11.50	13	0						
16	QPSK	25	25	11.41	11.39	11.45								
16	QPSK	50	0	11.67	11.69	11.50								
16	16QAM	1	0	11.61	11.55	11.57								
16	16QAM	1	26	11.35	11.37	11.36	13	0						
16	16QAM	1	49	11.40	11.41	11.38								
16	16QAM	25	0	11.52	11.61	11.53								
16	16QAM	25	12	11.48	11.44	11.22								
16	16QAM	36	0	11.25	11.38	11.27	13	0						
16	16QAM	50	0	11.56	11.66	11.40								
16	64QAM	1	0	11.63	11.58	11.63								
16	64QAM	25	24	11.34	11.34	11.38								
16	64QAM	1	49	11.28	11.56	11.36	13	0						
16	64QAM	25	0	11.51	11.68	11.26								
16	64QAM	25	12	11.27	11.49	11.31								
16	64QAM	50	0	11.50	11.63	11.39								
16	256QAM	1	0	11.63	11.50	11.37	13	0						
16	256QAM	1	26	11.35	11.39	11.21								
16	256QAM	1	49	11.42	11.37	11.51								
16	256QAM	25	0	11.50	11.54	11.45								
16	256QAM	25	12	11.37	11.49	11.36	13	0						
16	256QAM	25	25	11.45	11.36	11.30								
16	256QAM	50	0	11.43	11.48	11.32								
Channel														
Frequency (MHz)														
5	QPSK	1	12	0	11.44	11.32	13	0						
5	QPSK	1	12	11.45	11.32	11.37								
5	QPSK	1	24	11.49	11.51	11.54								
5	QPSK	12	0	11.43	11.73	11.46								
5	QPSK	12	7	11.46	11.55	11.49	13	0						
5	QPSK	12	13	11.34	11.30	11.48								
5	QPSK	25	0	11.57	11.68	11.46								
5	16QAM	1	0	11.62	11.60	11.57								
5	16QAM	1	12	11.36	11.37	11.35	13	0						
5	16QAM	1	24	11.35	11.48	11.38								
5	16QAM	12	0	11.50	11.63	11.53								
5	16QAM	12	7	11.54	11.43	11.23								
5	16QAM	12	13	11.22	11.34	11.14	13	0						
5	16QAM	25	0	11.46	11.57	11.39								
5	64QAM	1	0	11.63	11.59	11.59								
5	64QAM	1	12	11.38	11.35	11.41								
5	64QAM	1	24	11.37	11.51	11.47	13	0						
5	64QAM	12	0	11.53	11.68	11.33								
5	64QAM	12	7	11.57	11.50	11.31								
5	64QAM	12	13	11.32	11.54	11.25								
5	64QAM	25	0	11.58	11.60	11.43	13	0						
5	256QAM	1	0	11.65	11.61	11.58								
5	256QAM	1	12	11.38	11.44	11.27								
5	256QAM	1	24	11.33	11.44	11.47								
5	256QAM	12	0	11.51	11.56	11.44	13	0						
5	256QAM	12												

Band 2 Ant2 DS110														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR3 (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	19.72	19.73	19.69	20.4	0						
20	QPSK	1	49	19.77	19.78	19.74								
20	QPSK	1	99	19.85	19.89	19.86								
20	QPSK	50	0	19.71	19.74	19.70								
20	QPSK	50	24	19.82	19.79	19.83	20.4	0						
20	QPSK	50	50	19.83	19.68	19.59								
20	QPSK	100	0	19.87	19.72	19.54								
20	16QAM	50	0	19.68	19.68	19.68								
20	16QAM	1	49	19.45	19.65	19.57	20.4	0						
20	16QAM	1	99	19.48	19.84	19.52								
20	16QAM	50	0	19.75	19.65	19.56								
20	16QAM	50	24	19.81	19.67	19.42								
20	16QAM	50	50	19.52	19.68	19.49	20.4	0						
20	16QAM	100	0	19.86	19.69	19.40								
20	84QAM	1	0	19.59	19.67	19.67								
20	84QAM	1	49	19.57	19.75	19.53								
20	84QAM	50	0	19.43	19.65	19.51	20.4	0						
20	84QAM	50	0	19.66	19.60	19.67								
20	84QAM	50	24	19.48	19.76	19.44								
20	84QAM	50	50	19.50	19.58	19.46								
20	84QAM	100	0	19.56	19.69	19.40	19	1.4						
20	256QAM	1	49	18.72	18.91	18.96								
20	256QAM	1	99	18.69	18.82	18.89								
20	256QAM	50	0	18.66	18.77	18.77								
20	256QAM	50	24	18.61	18.71	18.67	19	1.4						
20	256QAM	50	50	18.63	18.79	18.68								
20	256QAM	100	0	18.71	18.87	18.84								
Channel														
Frequency (MHz)														
18	QPSK	1	0	18.69	18.71	18.62	20.4	0						
18	QPSK	1	37	18.95	19.37	19.30								
18	QPSK	1	74	19.46	19.57	19.54								
18	QPSK	36	0	18.58	18.65	18.66								
18	QPSK	36	25	19.47	19.36	19.41	20.4	0						
18	QPSK	36	39	19.57	19.63	19.50								
18	QPSK	75	0	18.61	18.67	18.61								
18	16QAM	1	0	18.63	18.63	18.62								
18	16QAM	1	37	19.34	19.64	19.45	20.4	0						
18	16QAM	1	74	19.40	19.56	19.41								
18	16QAM	36	0	18.74	19.09	19.47								
18	16QAM	36	20	19.41	19.63	19.39								
18	16QAM	36	20	19.41	19.63	19.39	20.4	0						
18	16QAM	75	0	18.44	19.54	19.39								
18	84QAM	1	0	19.40	19.58	19.54								
18	84QAM	1	37	19.48	19.69	19.49								
18	84QAM	1	74	19.40	19.56	19.41	20.4	0						
18	84QAM	36	0	19.53	19.55	19.64								
18	84QAM	36	20	19.43	19.62	19.47								
18	84QAM	36	39	19.59	19.41	19.45								
18	84QAM	75	0	19.48	19.64	19.57	19	1.4						
18	256QAM	1	0	18.65	18.65	18.65								
18	256QAM	1	37	19.57	19.91	19.81								
18	256QAM	1	74	18.62	18.66	18.54								
18	256QAM	36	0	18.53	18.58	18.53	19	1.4						
18	256QAM	36	20	18.35	18.52	18.50								
18	256QAM	36	39	18.48	18.62	18.58								
18	256QAM	75	0	18.49	18.63	18.53								
Channel														
Frequency (MHz)														
18	QPSK	1	0	18.68	19.72	19.65	20.4	0						
18	QPSK	1	26	19.48	19.73	19.50								
18	QPSK	1	49	19.45	19.58	19.53								
18	QPSK	25	0	18.41	19.63	19.38								
18	QPSK	25	12	19.41	19.63	19.38	20.4	0						
18	QPSK	25	25	19.52	19.54	19.46								
18	QPSK	50	0	18.66	19.59	19.36								
18	16QAM	1	0	19.65	19.62	19.63								
18	16QAM	1	26	19.32	19.58	19.49	20.4	0						
18	16QAM	1	49	19.65	19.65	19.65								
18	16QAM	25	0	19.65	19.53	19.49								
18	16QAM	25	12	19.37	19.58	19.37								
18	16QAM	36	0	19.43	19.65	19.36	20.4	0						
18	16QAM	36	20	19.50	19.55	19.39								
18	84QAM	1	0	19.55	19.64	19.61								
18	84QAM	1	24	19.54	19.60	19.49								
18	84QAM	1	49	19.52	19.52	19.41	20.4	0						
18	84QAM	25	0	19.59	19.48	19.58								
18	84QAM	25	12	19.39	19.59	19.37								
18	84QAM	25	25	19.43	19.44	19.36								
18	84QAM	50	0	19.53	19.57	19.38	19	1.4						
18	256QAM	1	0	18.72	18.72	18.64								
18	256QAM	1	26	18.69	18.93	18.92								
18	256QAM	1	49	18.65	18.76	18.65								
18	256QAM	25	0	18.44	18.62	18.65	19	1.4						
18	256QAM	25	12	18.51	18.58	18.74								
18	256QAM	25	25	18.37	18.70	18.53								
18	256QAM	50	0	18.46	18.65	18.43								
Channel														
Frequency (MHz)														
5	QPSK	1	0	19.53	19.53	19.53	20.4	0						
5	QPSK	1	12	19.47	19.71	19.55								
5	QPSK	1	24	19.46	19.64	19.45								
5	QPSK	12	0	19.48	19.68	19.48								
5	QPSK	12	7	19.40	19.57	19.44	20.4	0						
5	QPSK	12	13	19.37	19.63	19.52								
5	QPSK	25	0	19.45	19.44	19.44								
5	16QAM	1	0	19.54	19.65	19.67								
5	16QAM	1	12	19.34	19.66	19.53	20.4	0						
5	16QAM	1	24	19.43	19.53	19.51								
5	16QAM	12	0	19.63	19.63	19.46								
5	16QAM	12	7	19.43	19.64	19.38								
5	16QAM	12	13	19.48	19.55	19.36	20.4	0						
5	16QAM	25	0	19.47	19.58	19.38								
5	84QAM	1	0	19.54	19.62	19.58								
5	84QAM	1	12	19.50	19.71	19.49								
5	84QAM	1	24	19.35	19.57	19.47	20.4	0						
5	84QAM	12	0	19.56	19.43	19.60								
5	84QAM	12	7	19.42	19.63	19.40								
5	84QAM	12	13	19.41	19.45	19.35								
5	84QAM	25	0	19.50	19.55	19.33	19	1.4						
5	256QAM	1	0	18.59	18.86	18.88								
5	256QAM	1	12	18.59	18.96	18.96								
5	256QAM	1	24	18.62	18.98	18.53								
5	256QAM	12	0	18.49	18.84	18.82	19	1.4						
5	256QAM	12	7	18.43	18.61	18.70								
5	256QAM	12	13	18.40	18.60	18.40								
5	256QAM	25	0	18.56	18.62	18.43	19	1.4						
Channel														
Frequency (MHz)														
3	QPSK	1	0	19.64	19.78	19.73					20.4	0		
3	QPSK	1	12	19.70	19.70	19.70								
3	QPSK	1	14	19.45	19.57	19.53								
3	QPSK	0	19.61	19.68	19.58									
3	QPSK	1	46	19.68	19.68	19.68	20.4	0						
3	QPSK	8	7	19.52	19.55	19.46								
3	QPSK	15	0	19.46	19.67	19.51								
3	QPSK	1	1	19.63	19.63	19.43								
3	16QAM	1	8	19.35	19.55	19.38	20.4	0						
3	16QAM	1	14	19.43	19.59	19.43								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34	20.4	0						
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34	20.4	0						
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34	20.4	0						
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34	20.4	0						
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34	20.4	0						
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34	20.4	0						
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34	20.4	0						
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34	20.4	0						
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34	20.4	0						
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34	20.4	0						
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34	20.4	0						
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34	20.4	0						
3	16QAM	8	4	19.44	19.44	19.34								
3	16QAM	8	4	19.44	19.44	19.34								
3														

Band 2 Ant3 DS110										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.46	17.68	17.60	18.6	0		
20	QPSK	1	49	17.34	17.61	17.55				
20	QPSK	1	99	17.61	17.41	17.42				
20	QPSK	50	0	17.53	17.63	17.42				
20	QPSK	50	24	17.39	17.48	17.39	18.6	0		
20	QPSK	50	50	17.51	17.59	17.44				
20	QPSK	100	0	17.42	17.50	17.44				
20	QPSK	100	0	17.42	17.50	17.44				
20	16QAM	1	99	17.46	17.26	17.24	18.6	0		
20	16QAM	1	49	17.35	17.46	17.36				
20	16QAM	50	24	17.33	17.30	17.26				
20	16QAM	50	50	17.42	17.47	17.39				
20	16QAM	100	0	17.47	17.44	17.25	18.6	0		
20	16QAM	1	0	17.56	17.63	17.30				
20	16QAM	1	49	17.27	17.46	17.26				
20	16QAM	1	99	17.54	17.51	17.30				
20	256QAM	1	49	17.27	17.46	17.26	18.6	0		
20	256QAM	1	99	17.54	17.51	17.30				
20	256QAM	50	24	17.29	17.36	17.29				
20	256QAM	50	50	17.31	17.40	17.23				
20	256QAM	100	0	17.30	17.46	17.38	18.6	0		
20	256QAM	1	0	17.45	17.51	17.18				
20	256QAM	50	50	17.13	17.60	17.11				
20	256QAM	100	0	17.51	17.65	17.46				
Channel										
Frequency (MHz)										
16	QPSK	1	0	18.67	18.80	18.60	18.6	0		
16	QPSK	1	0	17.33	17.59	17.45				
16	QPSK	1	37	17.25	17.53	17.33				
16	QPSK	1	74	17.48	17.36	17.19				
16	QPSK	36	0	17.46	17.55	17.30	18.6	0		
16	QPSK	36	25	17.36	17.41	17.27				
16	QPSK	75	0	17.47	17.57	17.30				
16	QPSK	75	0	17.36	17.52	17.27				
16	16QAM	1	37	17.10	17.50	17.21	18.6	0		
16	16QAM	1	74	17.39	17.54	17.30				
16	16QAM	36	20	17.29	17.41	17.15				
16	16QAM	36	20	17.26	17.28	17.24				
16	16QAM	36	39	17.26	17.38	17.20	18.6	0		
16	16QAM	75	0	17.45	17.41	17.20				
16	16QAM	75	0	17.45	17.41	17.20				
16	16QAM	1	0	17.46	17.51	17.18				
16	16QAM	1	37	17.15	17.49	17.20	18.6	0		
16	16QAM	1	74	17.49	17.24	17.27				
16	16QAM	36	0	17.32	17.41	17.32				
16	16QAM	36	20	17.25	17.27	17.23				
16	16QAM	36	39	17.26	17.38	17.20	18.6	0		
16	16QAM	75	0	17.45	17.41	17.20				
16	16QAM	75	0	17.45	17.41	17.20				
16	16QAM	1	0	17.46	17.51	17.18				
16	256QAM	1	37	17.24	17.47	17.20	18.6	0		
16	256QAM	1	74	17.23	17.52	17.11				
16	256QAM	36	18	17.46	17.36	17.26				
16	256QAM	36	20	17.30	17.30	17.15				
16	256QAM	36	39	17.14	17.55	17.09	18.6	0		
16	256QAM	75	0	17.48	17.51	17.24				
16	256QAM	100	0	17.48	17.51	17.24				
16	256QAM	36	39	17.14	17.55	17.09				
16	256QAM	75	0	17.51	17.54	17.24	18.6	0		
Channel										
Frequency (MHz)										
16	QPSK	1	0	18.60	18.69	18.56	18.6	0		
16	QPSK	1	25	17.32	17.58	17.29				
16	QPSK	1	49	17.52	17.28	17.19				
16	QPSK	36	0	17.49	17.58	17.32				
16	QPSK	36	25	17.28	17.38	17.30	18.6	0		
16	QPSK	25	12	17.28	17.38	17.30				
16	QPSK	25	25	17.13	17.47	17.16				
16	QPSK	50	0	17.39	17.55	17.34				
16	16QAM	1	0	17.39	17.55	17.34	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21	18.6	0		
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26	17.21	17.51	17.21				
16	16QAM	1	26</							



Band 2 Ant0 DS19												
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Hsp Ch / Freq	Power Hsp Ch / Freq	Power Hsp Ch / Freq	Turn-up time (dB)	MPR (dB)			
Channel 1880 1880 1880												
20	QPSK	1	0	20.50	20.52	20.57						
20	QPSK	1	49	20.48	20.48	20.48						
20	QPSK	1	99	20.40	20.53	20.43				20.5	0	
20	QPSK	50	0	20.44	20.53	20.32						
20	QPSK	50	24	20.43	20.43	20.32						
20	QPSK	50	50	20.44	20.45	20.20				20.5	0	
20	QPSK	100	0	20.42	20.50	20.43						
20	16QAM	1	0	20.38	20.48	20.35						
20	16QAM	1	49	20.37	20.43	20.40				21.3	0	
20	16QAM	1	99	20.33	20.54	20.37						
20	16QAM	50	0	20.30	20.45	20.35						
20	16QAM	50	24	20.29	20.42	20.20				21.3	0	
20	16QAM	50	50	20.32	20.38	20.20						
20	16QAM	100	0	20.30	20.42	20.28						
20	64QAM	1	0	20.37	20.48	20.44						
20	64QAM	1	49	20.42	20.37	20.41				21.3	0	
20	64QAM	1	99	20.36	20.50	20.37						
20	64QAM	50	0	20.29	20.36	20.27						
20	64QAM	50	24	20.31	20.47	20.25				21.3	0	
20	64QAM	50	50	20.30	20.45	20.24						
20	64QAM	100	0	20.29	20.35	20.32						
20	256QAM	1	0	18.51	18.66	18.60				20.5	0.8	
20	256QAM	1	49	18.67	18.65	18.62						
20	256QAM	1	99	18.57	18.65	18.62						
20	256QAM	50	0	18.55	18.59	18.43				20.5	0.8	
20	256QAM	50	24	18.42	18.67	18.51						
20	256QAM	50	50	18.28	18.60	18.35						
20	256QAM	100	0	18.39	18.43	18.58						
Channel 1857.5 1860 1860.5												
15	QPSK	1	0	20.38	20.58	20.54				21.3	0	
15	QPSK	1	34	20.38	20.48	20.48						
15	QPSK	1	74	20.31	20.53	20.33						
15	QPSK	36	0	20.42	20.41	20.22						
15	QPSK	36	20	20.35	20.43	20.25						
15	QPSK	36	36	20.39	20.31	20.13				21.3	0	
15	QPSK	75	0	20.38	20.46	20.33						
15	16QAM	1	0	20.32	20.43	20.35						
15	16QAM	1	37	20.33	20.39	20.40				21.3	0	
15	16QAM	1	74	20.26	20.47	20.34						
15	16QAM	36	0	20.28	20.31	20.28						
15	16QAM	36	20	20.16	20.37	20.16				21.3	0	
15	16QAM	36	36	20.29	20.31	20.11						
15	16QAM	75	0	20.29	20.38	20.22						
15	64QAM	1	0	20.24	20.41	20.34						
15	64QAM	1	37	20.34	20.30	20.27				21.3	0	
15	64QAM	1	74	20.32	20.49	20.23						
15	64QAM	36	0	20.21	20.28	20.21						
15	64QAM	36	20	20.16	20.44	20.14				21.3	0	
15	64QAM	36	36	20.28	20.38	20.18						
15	64QAM	75	0	20.25	20.31	20.25						
15	256QAM	1	0	18.38	18.46	18.42				20.5	0.8	
15	256QAM	1	37	18.46	18.34	18.49						
15	256QAM	1	74	18.51	18.49	18.41				20.5	0.8	
15	256QAM	36	0	18.34	18.47	18.38						
15	256QAM	36	20	18.20	18.41	18.36						
15	256QAM	36	36	18.07	18.36	18.24						
15	256QAM	75	0	18.14	18.35	18.24						
Channel 1850 1850 1850												
10	QPSK	1	0	20.46	20.52	20.45				21.3	0	
10	QPSK	1	20	20.36	20.46	20.39						
10	QPSK	1	49	20.32	20.40	20.37						
10	QPSK	25	0	20.34	20.41	20.19						
10	QPSK	25	12	20.38	20.41	20.27				21.3	0	
10	QPSK	25	25	20.32	20.42	20.22						
10	QPSK	50	0	20.36	20.46	20.32						
10	QPSK	50	25	20.25	20.51	20.34						
10	16QAM	1	0	20.33	20.43	20.35				21.3	0	
10	16QAM	1	49	20.27	20.46	20.31						
10	16QAM	25	0	20.32	20.41	20.31						
10	16QAM	25	12	20.25	20.31	20.27				21.3	0	
10	16QAM	25	25	20.24	20.31	20.15						
10	16QAM	50	0	20.27	20.38	20.17						
10	64QAM	1	0	20.34	20.45	20.35				21.3	0	
10	64QAM	1	25	20.38	20.47	20.31						
10	64QAM	25	0	20.23	20.31	20.25						
10	64QAM	25	12	20.25	20.39	20.17				21.3	0	
10	64QAM	25	25	20.25	20.39	20.17						
10	64QAM	50	0	20.16	20.25	20.28						
10	256QAM	1	0	18.25	18.40	18.35				20.5	0.8	
10	256QAM	1	25	18.56	18.45	18.50						
10	256QAM	1	49	18.37	18.56	18.34				20.5	0.8	
10	256QAM	25	0	18.46	18.37	18.40						
10	256QAM	25	12	18.32	18.52	18.35						
10	256QAM	25	25	18.06	18.41	18.36						
10	256QAM	50	0	18.21	18.48	18.26						
Channel 1852.5 1855 1857.5												
5	QPSK	1	0	20.46	20.49	20.52				21.3	0	
5	QPSK	1	12	20.42	20.47	20.39						
5	QPSK	1	24	20.31	20.53	20.39						
5	QPSK	12	0	20.34	20.42	20.28						
5	QPSK	12	7	20.39	20.38	20.27				21.3	0	
5	QPSK	12	19	20.40	20.30	20.16						
5	QPSK	20	0	20.34	20.49	20.37						
5	16QAM	1	0	20.34	20.50	20.33						
5	16QAM	1	12	20.24	20.33	20.25				21.3	0	
5	16QAM	1	24	20.19	20.42	20.14						
5	16QAM	12	0	20.24	20.27	20.32						
5	16QAM	12	7	20.20	20.35	20.12				21.3	0	
5	16QAM	12	19	20.22	20.32	20.17						
5	16QAM	20	0	20.22	20.32	20.25						
5	64QAM	1	0	20.30	20.38	20.40						
5	64QAM	1	12	20.34	20.32	20.34				21.3	0	
5	64QAM	1	24	20.25	20.40	20.31						
5	64QAM	12	0	20.19	20.30	20.22						
5	64QAM	12	7	20.26	20.44	20.18				21.3	0	
5	64QAM	12	19	20.23	20.32	20.15						
5	64QAM	20	0	20.22	20.31	20.30						
5	256QAM	1	0	18.33	18.57	18.44						
5	256QAM	1	12	18.50	18.51	18.30				20.5	0.8	
5	256QAM	1	24	18.32	18.57	18.36						
5	256QAM	12	0	18.41	18.48	18.34				20.5	0.8	
5	256QAM	12	7	18.34	18.58	18.34						
5	256QAM	12	19	18.22	18.46	18.11						
5	256QAM	20	0	18.27	18.22	18.34						
Channel 1851.5 1850 1850.5												
3	QPSK	1	0	20.37	20.48	20.40				21.3	0	
3	QPSK	1	8	20.42	20.44	20.36						
3	QPSK	1	14	20.32	20.46	20.36						
3	QPSK	8	0	20.35	20.41	20.27						
3	QPSK	8	4	20.30	20.37	20.31				21.3	0	
3	QPSK	8	7	20.42	20.38	20.15						
3	QPSK	15	0	20.37	20.45	20.41						
3	16QAM	1	0	20.35	20.44	20.31						
3	16QAM	1	8	20.32	20.38	20.42				21.3	0	
3	16QAM	1	14	20.29	20.43	20.38						
3	16QAM	8	0	20.28	20.36	20.25						
3	16QAM	8	4	20.19	20.37	20.10				21.3	0	
3	64QAM	1	0	20.28	20.36	20.25						
3	64QAM	1	8	20.26	20.40	20.41				21.3	0	
3	64QAM	1	14	20.33	20.47	20.26						
3	64QAM	8	0	20.17	20.23	20.22						
3	64QAM	8	4	20.19	20.42	20.14				21.3	0	
3	64QAM	8	7	20.25	20.35	20.15						
3	64QAM	15	0	20.31	20.46	20.37						
3	256QAM	1	0	18.41	18.46	18.37						
3	256QAM	1	8	18.47	18.46	18.25				20.5	0.8	
3	256QAM	1	14	18.46	18.42	18.42						
3	256QAM	8	0	18.32	18.52	18.34						

Band 2 Ant1 DS19												
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Mod. Ch./Freq.	Power High Ch./Freq.	Time-up Init (dB)	MPE (dB)				
Channel												
1880 1890 1900												
20	QPSK	1	0	11.31	11.30	11.29	12.3	0				
20	QPSK	1	49	11.32	11.30	11.15						
20	QPSK	1	99	11.33	11.37	11.31						
20	QPSK	1	149	11.35	11.45	11.34						
20	QPSK	50	24	11.22	11.27	11.18	12.3	0				
20	QPSK	50	50	11.21	11.16	11.12						
20	QPSK	100	0	11.32	11.35	11.15						
20	16QAM	1	0	11.33	11.43	11.15						
20	16QAM	1	49	11.24	11.25	11.03	12.3	0				
20	16QAM	1	99	11.21	11.30	11.22						
20	16QAM	50	0	11.26	11.30	11.20						
20	16QAM	50	24	11.06	11.28	11.06						
20	16QAM	50	50	11.17	11.11	11.06	12.3	0				
20	16QAM	100	0	11.36	11.27	11.08						
20	64QAM	1	0	11.28	11.48	11.28						
20	64QAM	1	49	11.26	11.38	11.26						
20	64QAM	50	0	11.31	11.30	11.25	12.3	0				
20	64QAM	50	24	11.17	11.25	11.09						
20	64QAM	50	50	11.16	11.14	11.10						
20	256QAM	1	0	11.31	11.24	11.14						
20	256QAM	1	49	11.29	11.24	11.04	12.3	0				
20	256QAM	1	99	11.15	11.38	11.27						
20	256QAM	50	0	11.22	11.37	11.18						
20	256QAM	50	24	11.07	11.23	11.04						
20	256QAM	50	50	11.08	11.06	11.02	12.3	0				
20	256QAM	100	0	11.31	11.30	11.24						
Channel												
1890 1890 1900												
15	QPSK	1	0	11.27	11.46	11.21	12.3	0				
15	QPSK	1	49	11.27	11.47	11.21						
15	QPSK	1	99	11.28	11.31	11.25						
15	QPSK	36	0	11.16	11.23	11.04						
15	QPSK	36	36	11.25	11.33	11.23	12.3	0				
15	QPSK	36	36	11.08	11.10	11.03						
15	QPSK	75	0	11.28	11.24	11.13						
15	16QAM	1	0	11.32	11.34	11.09						
15	16QAM	1	37	11.15	11.21	11.09	12.3	0				
15	16QAM	1	74	11.16	11.30	11.19						
15	16QAM	36	0	11.16	11.22	11.11						
15	16QAM	36	20	10.93	11.16	10.95						
15	16QAM	36	36	11.09	11.03	10.96	12.3	0				
15	16QAM	75	0	11.29	11.13	11.07						
15	64QAM	1	0	11.17	11.43	11.17						
15	64QAM	1	49	11.24	11.44	11.14						
15	64QAM	1	99	11.09	11.25	11.13	12.3	0				
15	64QAM	36	0	11.24	11.27	11.20						
15	64QAM	36	36	11.06	11.08	10.93						
15	64QAM	36	36	11.06	11.08	10.93						
15	256QAM	1	0	11.21	11.31	11.10	12.3	0				
15	256QAM	1	49	11.25	11.32	11.20						
15	256QAM	1	99	11.29	11.36	11.22						
15	256QAM	50	0	11.26	11.34	11.05						
15	256QAM	50	24	11.07	11.07	11.01	12.3	0				
15	256QAM	50	50	11.25	11.34	11.05						
15	256QAM	100	0	11.24	11.36	11.16						
15	256QAM	100	0	11.27	11.25	11.13						
Channel												
1890 1890 1900												
10	QPSK	1	0	11.27	11.43	11.23	12.3	0				
10	QPSK	1	12	11.19	11.12	11.02						
10	QPSK	1	24	11.23	11.30	11.18						
10	QPSK	12	0	11.12	11.23	11.03						
10	QPSK	12	7	11.13	11.16	11.10	12.3	0				
10	QPSK	12	13	11.15	11.03	10.99						
10	QPSK	25	0	11.21	11.31	11.14						
10	16QAM	1	0	11.35	11.31	11.05						
10	16QAM	1	12	11.14	11.14	10.92	12.3	0				
10	16QAM	1	24	11.10	11.20	11.20						
10	16QAM	12	0	11.16	11.19	11.15						
10	16QAM	12	7	11.00	11.21	11.06						
10	16QAM	12	13	11.13	10.97	11.03	12.3	0				
10	16QAM	25	0	11.22	11.19	11.02						
10	64QAM	1	0	11.20	11.41	11.17						
10	64QAM	1	12	11.23	11.14	10.95						
10	64QAM	1	24	11.16	11.25	11.18	12.3	0				
10	64QAM	12	0	11.19	11.20	11.11						
10	64QAM	12	7	11.13	11.12	11.03						
10	64QAM	12	13	11.06	11.08	10.94						
10	256QAM	1	0	11.23	11.36	11.13	12.3	0				
10	256QAM	1	12	11.19	11.16	11.04						
10	256QAM	1	24	11.02	11.34	11.21						
10	256QAM	12	0	11.14	11.14	11.01						
10	256QAM	12	7	11.04	11.15	11.01	12.3	0				
10	256QAM	12	13	11.01	11.00	10.95						
10	256QAM	25	0	11.26	11.28	11.15						
Channel												
1890 1890 1900												
5	QPSK	1	0	11.27	11.43	11.23	12.3	0				
5	QPSK	1	12	11.19	11.12	11.02						
5	QPSK	1	24	11.23	11.30	11.18						
5	QPSK	12	0	11.12	11.23	11.03						
5	QPSK	12	7	11.13	11.16	11.10	12.3	0				
5	QPSK	12	13	11.15	11.03	10.99						
5	QPSK	25	0	11.21	11.31	11.14						
5	16QAM	1	0	11.35	11.31	11.05						
5	16QAM	1	12	11.14	11.14	10.92	12.3	0				
5	16QAM	1	24	11.10	11.20	11.20						
5	16QAM	12	0	11.16	11.19	11.15						
5	16QAM	12	7	11.00	11.21	11.06						
5	16QAM	12	13	11.13	10.97	11.03	12.3	0				
5	16QAM	25	0	11.22	11.19	11.02						
5	64QAM	1	0	11.20	11.41	11.17						
5	64QAM	1	12	11.23	11.14	10.95						
5	64QAM	1	24	11.16	11.25	11.18	12.3	0				
5	64QAM	12	0	11.19	11.20	11.11						
5	64QAM	12	7	11.13	11.12	11.03						
5	64QAM	12	13	11.06	11.08	10.94						
5	256QAM	1	0	11.23	11.36	11.13	12.3	0				
5	256QAM	1	12	11.19	11.16	11.04						
5	256QAM	1	24	11.02	11.34	11.21						
5	256QAM	12	0	11.14	11.14	11.01						
5	256QAM	12	7	11.04	11.05	10.95	12.3	0				
5	256QAM	12	13	11.01	11.00	10.95						
5	256QAM	25	0	11.26	11.28	11.15						
Channel												
1890 1890 1900												
3	QPSK	1	0	11.27	11.43	11.23	12.3	0				
3	QPSK	1	12	11.19	11.12	11.02						
3	QPSK	1	24	11.23	11.30	11.18						
3	QPSK	12	0	11.12	11.23	11.03						
3	QPSK	12	7	11.13	11.16	11.10	12.3	0				
3	QPSK	12	13	11.15	11.03	10.99						
3	QPSK	25	0	11.21	11.31	11.14						
3	16QAM	1	0	11.35	11.31	11.05						
3	16QAM	1	12	11.14	11.14	10.92	12.3	0				
3	16QAM	1	24	11.10	11.20	11.20						
3	16QAM	12	0	11.16	11.19	11.15						
3	16QAM	12	7	11.00	11.21	11.06						
3	16QAM	12	13	11.13	10.97	11.03	12.3	0				
3	16QAM	25	0	11.22	11.19	11.02						
3	64QAM	1	0	11.20	11.41	11.17						
3	64QAM	1	12	11.23	11.14	10.95						
3	64QAM	1	24	11.16	11.25	11.18	12.3	0				
3	64QAM	12	0	11.19	11.20	11.11						
3	64QAM	12	7	11.13	11.12	11.03						
3	64QAM	12	13	11.06	11.08	10.94						
3	256QAM	1	0	11.23	11.36	11.13	12.3	0				
3	256QAM	1	12	11.19	11.16	11.04						
3	256QAM	1	24	11.02	11.34	11.21						
3	256QAM	12	0	11.14	11.14	11.01						
3	256QAM	12	7	11.04	11.05	10.95	12.3	0				
3	256QAM	12	13	11.01	11.00	10.95						
3	256QAM	25	0	11.26	11.28	11.15						
Channel												
1890 1890 1900												
1.4	QPSK	1	0	11.28	11.37	11.19	12.3	0				
1.4	QPSK	1	3	11.22	11.13	11.05						
1.4	QPSK	1	6	11.29	11.34	11.20						
1.4	QPSK	3	0	11.21	11.31	11.24						
1.4	QPSK	3	1	11.11	11.13	11.07	12.3	0				
1.4	QPSK	3	1	11.08	11.09	11.05						
1.4	QPSK	6	0	11.19	11.28	11.19						
1.4	QPSK	6	3	11.27	11.34	11.26						
1.4	16QAM	1	3	11.16	11.14	11.01	12.3	0				
1.4	16QAM	1	6	11.07	11.22	11.15						
1.4	16QAM	3	0	11.13	11.27	11.18						
1.4	16QAM	3	1	10.96	11.17	10.95						
1.4	16QAM	3	1	11.07	11.07	10.94	12.3	0				
1.4	16QAM	6	0	11.22	11.05	11.02						
1.4	16QAM	6	3	11.14	11.45	11.21						
1.4	16QAM	6	6	11.06	11.27	11.06						
1.4	256QAM	1	3	11.19	11.13	10.93	12.3	0				
1.4	256QAM	1	6	11.06	11.28	11.19						
1.4	256QAM	3	0	11.18	11.35	11.08						
1.4	256QAM	3	1	11.09	11.20	10.90						
1.4	256QAM	3	1	11.24	11.01	10.92	12.3	0				
1.4	256QAM	6	0	11.18	11.13	11.02						
1.4	256QAM	6	3	11.08	11.07	11.01						
1.4	256QAM	6	6	11.20	11.20	11.01						

Band 2 Ant2 DS19													
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Mod. Ch./Freq.	Power High Ch./Freq.	Tune-up Init (dB)	MPE (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	20.06	19.16	20.14	20.3	0					
20	QPSK	1	1	20.06	19.16	20.14							
20	QPSK	1	99	20.10	20.13	20.05							
20	QPSK	50	0	19.33	19.44	19.40	20.3	0					
20	QPSK	50	24	19.33	19.44	19.40							
20	QPSK	50	50	19.30	19.22	19.16							
20	QPSK	50	24	19.08	19.22	19.16	20.3	0					
20	QPSK	100	0	19.11	19.17	19.18							
20	QPSK	100	50	19.12	19.17	19.21							
20	16QAM	1	49	19.99	19.98	19.93	20.3	0					
20	16QAM	1	99	19.99	19.98	19.93							
20	16QAM	50	0	19.92	19.93	19.93							
20	16QAM	50	24	19.94	19.95	19.94	20.3	0					
20	16QAM	50	50	19.92	19.93	19.93							
20	16QAM	100	0	19.96	19.96	19.96							
20	16QAM	100	50	19.96	19.96	19.96	20.3	0					
20	16QAM	100	99	19.96	19.96	19.96							
20	64QAM	1	0	19.99	19.96	19.94							
20	64QAM	1	49	19.99	19.96	19.94	20.3	0					
20	64QAM	1	99	19.99	19.96	19.94							
20	64QAM	50	0	19.96	19.97	19.97							
20	64QAM	50	24	19.99	19.97	19.97	20.3	0					
20	64QAM	50	50	19.98	19.95	19.95							
20	64QAM	100	0	19.95	19.96	19.94							
20	256QAM	1	49	19.72	19.81	19.86	19	1.3					
20	256QAM	1	99	19.69	19.82	19.89							
20	256QAM	50	0	19.68	19.84	19.86							
20	256QAM	50	24	19.74	19.77	19.80	19	1.3					
20	256QAM	50	50	19.78	19.88	19.88							
20	256QAM	100	0	19.71	19.77	19.87							
20	256QAM	100	50	19.71	19.77	19.87	20.3	0					
20	256QAM	100	99	19.71	19.77	19.87							
Channel													
Frequency (MHz)													
15	QPSK	1	0	20.01	20.02	20.04			20.3	0			
15	QPSK	1	49	20.01	20.02	20.04							
15	QPSK	1	99	20.01	20.02	20.04							
15	QPSK	50	0	20.04	20.04	20.04	20.3	0					
15	QPSK	50	24	20.04	20.04	20.04							
15	QPSK	50	50	20.04	20.04	20.04							
15	QPSK	75	0	19.99	19.99	19.98	20.3	0					
15	QPSK	75	24	19.99	19.99	19.98							
15	QPSK	75	50	19.99	19.99	19.98							
15	16QAM	1	0	19.98	19.98	19.98	20.3	0					
15	16QAM	1	49	19.98	19.98	19.98							
15	16QAM	1	99	19.98	19.98	19.98							
15	16QAM	50	0	19.97	19.97	19.97	20.3	0					
15	16QAM	50	24	19.97	19.97	19.97							
15	16QAM	50	50	19.97	19.97	19.97							
15	16QAM	100	0	19.97	19.97	19.97	20.3	0					
15	16QAM	100	50	19.97	19.97	19.97							
15	16QAM	100	99	19.97	19.97	19.97							
15	64QAM	1	0	19.94	19.95	19.91	19	1.3					
15	64QAM	1	49	19.97	19.98	19.92							
15	64QAM	1	99	19.97	19.98	19.92							
15	64QAM	25	0	19.94	19.95	19.92	19	1.3					
15	64QAM	25	12	19.97	19.98	19.92							
15	64QAM	25	12	19.97	19.98	19.92							
15	64QAM	50	0	19.96	19.96	19.93	19	1.3					
15	64QAM	50	0	19.96	19.96	19.93							
15	64QAM	50	0	19.96	19.96	19.93							
15	64QAM	25	0	19.94	19.95	19.92	20.3	0					
15	64QAM	25	12	19.97	19.98	19.92							
15	64QAM	25	12	19.97	19.98	19.92							
15	256QAM	1	0	19.87	19.84	19.82	19	1.3					
15	256QAM	1	49	19.87	19.84	19.82							
15	256QAM	1	99	19.87	19.84	19.82							
15	256QAM	50	0	19.87	19.84	19.82	19	1.3					
15	256QAM	50	24	19.87	19.84	19.82							
15	256QAM	50	50	19.87	19.84	19.82							
15	256QAM	100	0	19.87	19.84	19.82	20.3	0					
15	256QAM	100	50	19.87	19.84	19.82							
15	256QAM	100	99	19.87	19.84	19.82							
Channel													
Frequency (MHz)													
10	QPSK	1	0	19.94	20.01	20.04	20.3	0					
10	QPSK	1	12	19.98	19.99	19.88							
10	QPSK	1	25	19.98	19.99	19.88							
10	QPSK	12	0	19.92	19.92	19.92	20.3	0					
10	QPSK	12	7	19.95	19.98	19.98							
10	QPSK	12	14	19.94	19.94	19.94							
10	QPSK	25	0	19.94	19.94	19.94	20.3	0					
10	QPSK	25	12	19.95	19.98	19.95							
10	QPSK	25	12	19.95	19.98	19.95							
10	16QAM	1	0	19.94	19.95	19.95	20.3	0					
10	16QAM	1	12	19.98	19.99	19.87							
10	16QAM	1	25	19.98	19.99	19.87							
10	16QAM	12	0	19.94	19.95	19.95	20.3	0					
10	16QAM	12	7	19.97	19.98	19.97							
10	16QAM	12	14	19.97	19.98	19.97							
10	16QAM	25	0	19.96	19.96	19.96	20.3	0					
10	16QAM	25	12	19.98	19.96	19.96							
10	16QAM	25	12	19.98	19.96	19.96							
10	16QAM	50	0	19.98	19.93	19.91	20.3	0					
10	16QAM	50	12	19.97	19.93	19.79							
10	16QAM	50	12	19.97	19.93	19.79							
10	16QAM	12	0	19.94	19.95	19.95	20.3	0					
10	16QAM	12	7	19.98	19.96	19.96							
10	16QAM	12	7	19.98	19.96	19.96							
10	16QAM	25	0	19.96	19.96	19.96	20.3	0					
10	16QAM	25	12	19.98	19.96	19.96							
10	16QAM	25	12	19.98	19.96	19.96							
10	64QAM	1	0	19.94	19.95	19.91	20.3	0					
10	64QAM	1	12	19.97	19.93	19.79							
10	64QAM	1	25	19.97	19.93	19.79							
10	64QAM	12	0	19.94	19.95	19.95	20.3	0					
10	64QAM	12	7	19.98	19.96	19.96							
10	64QAM	12	7	19.98	19.96	19.96							
10	64QAM	25	0	19.96	19.96	19.96	20.3	0					
10	64QAM	25	12	19.98	19.96	19.96							
10	64QAM	25	12	19.98	19.96	19.96							
10	256QAM	1	0	19.87	19.84	19.82	19	1.3					
10	256QAM	1	12	19.87	19.84	19.82							
10	256QAM	1	25	19.87	19.84	19.82							
10	256QAM	12	0	19.87	19.84	19.82	19	1.3					
10	256QAM	12	7	19.87	19.84	19.82							
10	256QAM	12	7	19.87	19.84	19.82							
10	256QAM	25	0	19.87	19.84	19.82	20.3	0					
10	256QAM	25	12	19.87	19.84	19.82							
10	256QAM	25	12	19.87	19.84	19.82							
10	256QAM	50	0	19.87	19.84	19.82	20.3	0					
10	256QAM	50	12	19.87	19.84	19.82							
10	256QAM	50	12	19.87	19.84	19.82							
Channel													
Frequency (MHz)													
14	QPSK	1	0	19.99	19.97	20.09	20.3	0					
14	QPSK	1	3	19.97	19.98	20.00							
14	QPSK	1	14	20.06	20.11	20.01							
14	QPSK	3	0	19.99	19.99	19.99	20.3	0					
14	QPSK	3	3	19.93	19.97	19.94							
14	QPSK	3	14	19.93	19.93	19.94							
14	QPSK	14	0	19.97	19.95	19.92	20.3	0					
14	QPSK	14	3	19.97	19.95	19.92							
14	QPSK	14	14	19.97	19.95	19.92							
14	16QAM	1	0	19.99	19.99	19.99	20.3	0					
14	16QAM	1	3	19.98	19.97	19.95							
14	16QAM	1	14	20.02	20.03	19.95							
14	16QAM	3	0	19.97	19.92	19.91	20.3	0					
14	16QAM	3	3	19.94	19.96	19.95							
14	16QAM	3	14	19.94	19.96	19.95							
14	16QAM	14	0	19.93	19.95	19.97	20.3	0					
14	16QAM	14	3	19.94	19.96	19.97							
14	16QAM	14	14	19.94	19.96	19.97							
14	64QAM	1	0	19.96	19.91	19.89	19	1.3					
14	64QAM	1	3	19.93	19.93	19.89							
14	64QAM	1	14	19.93	19.93	19.89							
14	64QAM	3	0	19.93	19.93	19.89	19	1.3					
14	64QAM	3	3	19.93	19.93	19.89							
14	64QAM	3	14	19.93	19.93	19.89							
14	64QAM	14	0	19.93	19.93	19.89	20.3	0					
14	64QAM	14	3	19.93	19.93	19.89							
14	64QAM	14	14	19.93	19.93	19.89							
14	256QAM	1	0	19.87	19.82	19.82	19	1.3					
14	256QAM	1	3	19.88	19.82	19.82							
14	256QAM	1	14	19.88	19.82	19.82							
14	256QAM	3	0	19.87	19.82	19.82	19	1.3					
14	256QAM	3	3	19.87	19.82	19.82							
14	256QAM	3	14	19.87	19.82	19.82							
14	256QAM	14	0	19.87	19.82	19.82	20.3	0					
14	256QAM	14	3	19.87	19.82	19.82							
14	256QAM	14	14	19.87	19.82	19.82							
Channel													
Frequency (MHz)													
18	QPSK	1	0	19.99	19.97	20.09	20.3	0					
18	QPSK	1	3	19.97									

Band 2 Ant3 DS19									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up freq. (dBm)	MPE (dB)	
Channel									
1880 1890 1900									
20	QPSK	1	0	14.61	14.85	14.83	16.2	0	
20	QPSK	1	49	14.60	14.80	14.80			
20	QPSK	1	99	14.66	14.80	14.81			
20	QPSK	50	24	14.60	14.80	14.80	16.2	0	
20	QPSK	50	50	14.49	14.74	14.56			
20	QPSK	100	0	14.62	14.78	14.66			
20	16QAM	1	0	14.73	14.76	14.62	16.2	0	
20	16QAM	1	49	14.61	14.66	14.38			
20	16QAM	1	99	14.61	14.60	14.62			
20	16QAM	50	0	14.63	14.63	14.66			
20	16QAM	50	24	14.62	14.67	14.42	16.2	0	
20	16QAM	50	50	14.41	14.71	14.44			
20	16QAM	100	0	14.59	14.71	14.49			
20	64QAM	1	0	14.68	14.75	14.48	16.2	0	
20	64QAM	1	49	14.59	14.65	14.35			
20	64QAM	1	99	14.67	14.70	14.66			
20	64QAM	50	0	14.66	14.76	14.61			
20	64QAM	50	24	14.58	14.72	14.37	16.2	0	
20	64QAM	50	50	14.41	14.67	14.49			
20	256QAM	1	0	14.78	14.66	14.68	16.2	0	
20	256QAM	1	49	14.63	14.73	14.41			
20	256QAM	1	99	14.67	14.54	14.61			
20	256QAM	50	0	14.63	14.73	14.47	16.2	0	
20	256QAM	50	24	14.56	14.73	14.45			
20	256QAM	50	50	14.39	14.73	14.46			
20	256QAM	100	0	14.58	14.69	14.68			
Channel									
1887.5 1890 1902.5									
15	QPSK	1	0	14.61	14.70	14.73	16.2	0	
15	QPSK	1	49	14.61	14.70	14.73			
15	QPSK	1	74	14.63	14.48	14.45			
15	QPSK	36	0	14.61	14.73	14.66			
15	QPSK	36	50	14.63	14.64	14.61	16.2	0	
15	QPSK	36	99	14.59	14.62	14.61			
15	QPSK	75	0	14.49	14.76	14.62			
15	16QAM	1	0	14.68	14.69	14.63	16.2	0	
15	16QAM	1	37	14.38	14.58	14.28			
15	16QAM	1	74	14.62	14.40	14.44			
15	16QAM	36	0	14.61	14.71	14.65			
15	16QAM	36	20	14.52	14.47	14.30	16.2	0	
15	16QAM	36	50	14.58	14.56	14.62			
15	16QAM	75	0	14.47	14.60	14.62			
15	64QAM	1	0	14.65	14.65	14.60	16.2	0	
15	64QAM	1	37	14.63	14.63	14.63			
15	64QAM	1	74	14.62	14.46	14.43			
15	64QAM	36	0	14.61	14.69	14.66			
15	64QAM	36	20	14.55	14.62	14.54	16.2	0	
15	64QAM	36	50	14.29	14.64	14.37			
15	64QAM	75	0	14.43	14.54	14.60			
15	256QAM	1	0	14.63	14.70	14.38	16.2	0	
15	256QAM	1	37	14.60	14.70	14.36			
15	256QAM	1	74	14.62	14.44	14.38			
15	256QAM	36	0	14.58	14.65	14.62			
15	256QAM	36	20	14.41	14.53	14.37	16.2	0	
15	256QAM	36	50	14.53	14.61	14.63			
15	256QAM	75	0	14.53	14.61	14.63			
Channel									
1892.5 18990 19150									
10	QPSK	1	0	14.80	14.67	14.78	16.2	0	
10	QPSK	1	25	14.64	14.75	14.32			
10	QPSK	1	49	14.67	14.66	14.66			
10	QPSK	25	0	14.59	14.68	14.63			
10	QPSK	25	12	14.67	14.63	14.49	16.2	0	
10	QPSK	25	37	14.38	14.61	14.34			
10	QPSK	50	0	14.64	14.71	14.69			
10	16QAM	1	0	14.69	14.68	14.67	16.2	0	
10	16QAM	1	25	14.39	14.66	14.34			
10	16QAM	1	49	14.63	14.40	14.46			
10	16QAM	25	0	14.60	14.70	14.62			
10	16QAM	25	12	14.44	14.63	14.39	16.2	0	
10	16QAM	25	37	14.27	14.63	14.37			
10	16QAM	49	0	14.60	14.69	14.63			
10	64QAM	1	0	14.64	14.76	14.67			
10	64QAM	1	25	14.65	14.54	14.29	16.2	0	
10	64QAM	1	49	14.67	14.60	14.67			
10	64QAM	25	0	14.63	14.67	14.47			
10	64QAM	25	12	14.46	14.63	14.27	16.2	0	
10	64QAM	25	37	14.38	14.56	14.30			
10	64QAM	50	0	14.45	14.55	14.53			
10	256QAM	1	0	14.71	14.62	14.60	16.2	0	
10	256QAM	1	25	14.48	14.68	14.61			
10	256QAM	1	49	14.66	14.46	14.44			
10	256QAM	25	0	14.62	14.63	14.43	16.2	0	
10	256QAM	25	25	14.44	14.61	14.43			
10	256QAM	50	0	14.63	14.66	14.69			
Channel									
1896.5 18980 19175									
5	QPSK	1	0	14.60	14.69	14.69	16.2	0	
5	QPSK	1	12	14.62	14.73	14.35			
5	QPSK	1	24	14.68	14.67	14.43			
5	QPSK	12	0	14.66	14.63	14.63			
5	QPSK	12	7	14.50	14.67	14.48	16.2	0	
5	QPSK	12	13	14.39	14.61	14.63			
5	QPSK	25	0	14.67	14.70	14.62			
5	16QAM	1	0	14.63	14.64	14.67	16.2	0	
5	16QAM	1	12	14.60	14.60	14.33			
5	16QAM	1	24	14.61	14.60	14.60			
5	16QAM	12	0	14.55	14.76	14.54			
5	16QAM	12	7	14.49	14.61	14.30	16.2	0	
5	16QAM	12	13	14.28	14.61	14.30			
5	16QAM	25	0	14.65	14.68	14.60			
5	64QAM	1	0	14.62	14.66	14.66	16.2	0	
5	64QAM	1	12	14.47	14.63	14.27			
5	64QAM	1	24	14.69	14.43	14.47			
5	64QAM	12	0	14.54	14.66	14.63			
5	64QAM	12	7	14.63	14.68	14.33	16.2	0	
5	64QAM	12	13	14.24	14.55	14.38			
5	64QAM	25	0	14.48	14.60	14.64			
5	256QAM	1	0	14.73	14.62	14.63	16.2	0	
5	256QAM	1	12	14.42	14.69	14.34			
5	256QAM	1	24	14.64	14.46	14.46			
5	256QAM	12	0	14.64	14.63	14.43			
5	256QAM	12	7	14.49	14.67	14.49	16.2	0	
5	256QAM	12	13	14.27	14.67	14.41			
5	256QAM	25	0	14.47	14.66	14.61			
Channel									
18967 18990 19163									
1.4	QPSK	1	0	14.73	14.67	14.75	16.2	0	
1.4	QPSK	1	3	14.47	14.75	14.33			
1.4	QPSK	1	6	14.62	14.66	14.66			
1.4	QPSK	3	0	14.62	14.67	14.67			
1.4	QPSK	3	1	14.52	14.67	14.46	16.2	0	
1.4	QPSK	3	4	14.40	14.64	14.45			
1.4	QPSK	6	0	14.65	14.68	14.68			
1.4	16QAM	1	0	14.69	14.71	14.69	16.2	0	
1.4	16QAM	1	3	14.49	14.63	14.61			
1.4	16QAM	1	6	14.68	14.60	14.64			
1.4	16QAM	3	0	14.66	14.66	14.66			
1.4	16QAM	3	1	14.54	14.69	14.49	16.2	0	
1.4	16QAM	3	4	14.48	14.62	14.36			
1.4	16QAM	6	0	14.69	14.69	14.69			
1.4	64QAM	1	0	14.65	14.67	14.69	16.2	0	
1.4	64QAM	1	3	14.52	14.68	14.36			
1.4	64QAM	1	6	14.67	14.70	14.63			
1.4	64QAM	3	0	14.66	14.66	14.66			
1.4	64QAM	3	1	14.54	14.69	14.49	16.2	0	
1.4	64QAM	3	4	14.48	14.62	14.36			
1.4	64QAM	6	0	14.69	14.69	14.69			
1.4	256QAM	1	0	14.78	14.66	14.68	16.2	0	
1.4	256QAM	1	3	14.63	14.73	14.41			
1.4	256QAM	1	6	14.67	14.46	14.44			
1.4	256QAM	3	0	14.62	14.63	14.43	16.2	0	
1.4	256QAM	3	1	14.44	14.61	14.43			
1.4	256QAM	6	0	14.58	14.69	14.68			
1.4	256QAM	6	3	14.27	14.64	14.41			
1.4	256QAM	6	6	14.38	14.61	14.52	16.2	0	
1.4	256QAM	6	9	14.52	14.66	14.48			
1.4	256QAM	1	3	14.48	14.69	14.29			
1.4	256QAM	1	6	14.68	14.60	14.38	16.2	0	
1.4	256QAM	1	9	14.63	14.63	14.43			
1.4	256QAM	3	0	14.66	14.66	14.66			
1.4	256QAM	3	1	14.36	14.60	14.40			
1.4	256QAM	3	3	14.26	14.49	14.44	16.2	0	
1.4	256QAM	3	6	14.47	14.59	14.45			



Band 2 Ant0 DS12																		
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (ms)	MPR (dB)										
Channel 18800 18800 18800																		
Frequency (MHz)																		
20	QPSK	1	0	23.15	23.32	22.93	24	0										
20	QPSK	1	49	23.04	23.21	22.82												
20	QPSK	1	99	23.03	23.17	22.80												
20	QPSK	50	0	22.98	23.00	22.86												
20	QPSK	50	24	22.87	22.95	22.82	24	0										
20	QPSK	50	50	22.95	22.95	22.82												
20	16QAM	1	49	23.02	23.18	23.13												
20	16QAM	1	99	22.98	23.13	22.98												
20	16QAM	50	0	22.94	22.94	22.97	23.5	0.5										
20	16QAM	50	24	22.41	22.93	22.57												
20	16QAM	50	50	22.91	22.95	22.26												
20	64QAM	1	0	22.95	22.95	22.76												
20	64QAM	1	49	22.99	22.95	22.57	23.5	0.5										
20	64QAM	1	99	22.96	22.71	22.70												
20	64QAM	50	0	21.55	21.71	21.61												
20	64QAM	50	24	21.46	21.51	21.35												
20	64QAM	50	50	21.06	21.61	21.44	22.5	1.5										
20	256QAM	1	0	21.56	21.70	21.65												
20	256QAM	1	49	19.67	19.66	19.60												
20	256QAM	1	99	19.67	19.65	19.62												
20	256QAM	50	0	19.65	19.69	19.43	20.5	3.5										
20	256QAM	50	24	19.42	19.67	19.41												
20	256QAM	50	50	19.28	19.60	19.36												
20	256QAM	100	0	19.39	19.43	19.58												
Channel 18875 18875 18875																		
Frequency (MHz)																		
15	QPSK	1	0	23.01	23.10	22.73	24	0										
15	QPSK	1	31	22.78	23.02	22.82												
15	QPSK	1	74	22.91	23.04	22.81												
15	QPSK	36	0	22.51	22.91	22.62												
15	QPSK	36	36	22.68	22.68	22.59	24	0										
15	QPSK	75	0	23.06	23.12	22.86												
15	16QAM	1	0	22.92	23.00	22.83												
15	16QAM	1	37	22.75	23.13	22.86												
15	16QAM	1	74	22.75	22.96	22.84	24	0										
15	16QAM	36	0	22.46	22.45	22.37												
15	16QAM	36	20	22.22	22.38	22.31												
15	16QAM	36	39	22.25	22.31	22.18												
15	16QAM	75	0	22.54	22.58	22.37	23.5	0.5										
15	64QAM	1	0	22.45	22.72	22.56												
15	64QAM	1	37	22.53	22.41	22.48												
15	64QAM	1	74	22.57	22.90	22.92												
15	64QAM	36	0	21.36	21.65	21.36	22.5	1.5										
15	64QAM	36	20	21.23	21.25	21.32												
15	64QAM	36	39	21.35	21.37	21.33												
15	256QAM	1	0	21.39	21.46	21.31												
15	256QAM	1	31	19.46	19.34	19.49	20.5	3.5										
15	256QAM	1	74	19.51	19.48	19.41												
15	256QAM	50	0	19.34	19.47	19.36												
15	256QAM	50	24	19.20	19.41	19.36												
15	256QAM	50	50	19.07	19.36	19.24	20.5	3.5										
15	256QAM	75	0	19.16	19.21	19.36												
Channel 18950 18950 18950																		
Frequency (MHz)																		
10	QPSK	1	0	22.96	23.09	22.70			24	0								
10	QPSK	1	29	22.82	23.15	22.82												
10	QPSK	1	49	22.88	22.96	22.82												
10	QPSK	25	0	22.46	22.77	22.51												
10	QPSK	25	12	22.64	22.71	22.78	24	0										
10	QPSK	25	25	22.65	22.80	22.76												
10	QPSK	50	0	22.98	22.94	22.79												
10	16QAM	1	0	22.92	23.07	22.81												
10	16QAM	1	25	22.92	23.08	22.76	24	0										
10	16QAM	1	49	22.95	22.99	22.93												
10	16QAM	25	0	22.54	22.49	22.61												
10	16QAM	25	12	22.21	22.58	22.52												
10	16QAM	25	25	22.12	22.52	22.50	23.5	0.5										
10	16QAM	50	0	22.37	22.65	22.39												
10	64QAM	1	0	22.52	22.59	22.55												
10	64QAM	1	49	22.58	22.41	22.42												
10	64QAM	1	99	22.58	22.45	22.44	22.5	1.5										
10	64QAM	25	0	21.42	21.51	21.41												
10	64QAM	25	12	21.36	21.38	21.34												
10	64QAM	25	25	21.36	21.38	21.24												
10	64QAM	50	0	21.43	21.57	21.32	20.5	3.5										
10	256QAM	1	0	19.32	19.45	19.32												
10	256QAM	1	25	19.56	19.45	19.32												
10	256QAM	1	49	19.37	19.56	19.34												
10	256QAM	25	0	19.45	19.37	19.40	20.5	3.5										
10	256QAM	25	12	19.32	19.52	19.35												
10	256QAM	25	25	19.46	19.41	19.36												
10	256QAM	50	0	19.31	19.48	19.36												
Channel 18950 18950 18950																		
Frequency (MHz)																		
5	QPSK	1	0	23.00	23.10	22.81	24	0										
5	QPSK	1	12	23.00	23.12	22.79												
5	QPSK	1	24	22.84	23.10	22.75												
5	QPSK	12	0	22.44	22.89	22.47												
5	QPSK	12	12	22.65	22.84	22.72	24	0										
5	QPSK	12	19	22.57	22.73	22.67												
5	QPSK	25	0	23.07	23.13	22.82												
5	16QAM	1	0	22.76	23.06	22.87												
5	16QAM	1	12	22.94	23.02	22.97	24	0										
5	16QAM	1	24	22.74	23.09	22.79	23.5	0.5										
5	16QAM	12	0	22.49	22.48	22.50												
5	16QAM	12	12	22.17	22.39	22.33												
5	16QAM	12	19	22.22	22.36	22.19												
5	16QAM	25	0	22.33	22.81	22.42	23.5	0.5										
5	16QAM	25	12	22.28	22.59	22.28												
5	16QAM	25	19	22.22	22.36	22.19												
5	16QAM	50	0	22.37	22.65	22.39												
5	64QAM	1	0	22.52	22.59	22.55	23.5	0.5										
5	64QAM	1	12	22.43	22.49	22.43												
5	64QAM	12	12	22.14	22.40	21.39												
5	64QAM	12	19	22.19	22.41	21.09												
5	64QAM	25	0	21.52	22.00	21.24	22.5	1.5										
5	64QAM	25	12	21.46	21.45	21.41												
5	64QAM	25	19	21.33	21.40	21.36												
5	64QAM	50	0	19.33	19.67	19.44												
5	256QAM	1	0	19.50	19.50	19.35	20.5	3.5										
5	256QAM	1	24	19.32	19.37	19.35												
5	256QAM	12	0	19.41	19.62	19.39												
5	256QAM	12	12	19.36	19.59	19.34												
5	256QAM	12	19	19.22	19.48	19.21	20.5	3.5										
5	256QAM	25	0	19.27	19.62	19.54												
5	256QAM	25	12	19.22	19.48	19.21												
5	256QAM	25	19	19.22	19.48	19.21												
Channel 18950 18950 18950																		
Frequency (MHz)																		
3	QPSK	1	0	23.11	23.08	22.78	24	0										
3	QPSK	1	6	23.00	23.22	22.96												
3	QPSK	1	14	22.86	23.10	22.75												
3	QPSK	8	0	22.49	22.85	22.48												
3	QPSK	8	7	22.60	23.00	22.57	24	0										
3	QPSK	8	7	22.56	22.65	22.65												
3	QPSK	15	0	23.01	23.09	22.80												
3	16QAM	1	0	22.76	23.11	22.96												
3	16QAM	1	8	22.76	23.11	22.96	23.5	0.5										
3	16QAM	1	14	22.81	22.99	22.86												
3	16QAM	8	0	22.48	22.49	22.47												
3	16QAM	8	4	22.16	22.40	22.43												
3	16QAM	8	7	22.07	22.43	22.12	23.5	0.5										
3	16QAM	15	0	22.92	22.95	22.86												
3	16QAM	1	0	22.46	22.71	22.61												
3	16QAM	1	8	22.34	22.48	22.49												
3	64QAM	1	0	21.47	21.44	21.23	22.5	1.5										
3	64QAM	1	8	21.46	21.44	21.23												
3	64QAM	1	14	21.46	21.44	21.23												
3	64QAM	8	0	21.36	21.59	21.48												
3	256QAM	1	0	19.41	19.48	19.37	20.5	3.5										
3	256QAM	1	8	19.41	19.48	19.37												
3	256QAM	1	14	19.46	19.62	19.42												
3	256QAM	8	0	19.32	19.53	19.34												
3	256QAM	8	4	19.20	19.56	19.45	20.5	3.5										
3	256QAM	8	7	19.06	19.35	19.21												
3	256QAM	15	0	19.23	19.48	19.21												
3	256QAM	15	7	19.23	19.48	19.21												
Channel 19000 19000 19000																		
Frequency (MHz)																		
1.4	QPSK	1	0	23.00	23.23	22.94	24	0										
1.4	QPSK	1	5	22.90	23.22	22.96												
1.4	QPSK	1	5	22.79	23.05	22.85												
1.4	QPSK	3	0	22.56	22.91	22.79												
1.4	QPSK	3	3	22.70	22.63	22.60	24	0										
1.4	QPSK	3	3	22.69	22.60	22.59												
1.4	16QAM	1	0	22.97	23.00	22.88												
1.4	16QAM	1	3	22.87	23.08	22.86												
1.4	16QAM	3	0	22.44	22.81	22.67	24	0										
1.4	16QAM	3	1	22.26	22.87	22.38												
1.4	16QAM	3	3	22.30	22.83	22.71												
1.4	16QAM	6	0	22.44	22.64	22.49												
1.4	16QAM	6	0	22.48	22.75	22.68	23.5	0.5										
1.4	16QAM	6	3	22.61	22.68	22.62												
1.4	16QAM	3	5	21.51	21.55	21.54												
1.4	16QAM	3	5	21.47	21.55	21.47												
1.4	16QAM	6	3	21.67	21.68	21.68	22.5	1.5										
1.4	16QAM	6	5	21.30	21.59	21.51												
1.4	16QAM	6	5	21.48	21.59	21.59												
1.4	256QAM	1	3	19.57	19.36	19.34												
1.4	256QAM	1	5</															

Band 2 Ant1 DS12													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turnup time (min)	MPE (dB)					
Channel													
1867.5 1869 1869.5													
20	QPSK	1	0	18.78	18.97	19.85	21	0					
20	QPSK	1	49	18.76	18.98	19.85							
20	QPSK	1	99	18.51	18.88	19.82							
20	QPSK	50	0	18.65	18.86	19.85							
20	QPSK	50	24	18.59	18.81	19.85	21	0					
20	QPSK	50	50	18.57	18.84	19.72							
20	QPSK	100	0	18.64	18.87	19.85							
20	16QAM	1	49	18.68	18.79	19.84							
20	16QAM	1	99	18.25	18.53	19.57	21	0					
20	16QAM	50	0	18.57	18.79	19.34							
20	16QAM	50	24	18.36	18.57	19.37							
20	16QAM	50	50	18.31	18.38	19.35							
20	16QAM	100	0	18.49	18.53	19.36	21	0					
20	64QAM	1	0	19.49	19.33	19.46							
20	64QAM	1	49	18.46	18.23	19.45							
20	64QAM	50	0	18.36	18.55	19.35							
20	64QAM	50	24	18.41	18.63	19.47	21	0					
20	64QAM	50	50	18.32	18.35	19.31							
20	256QAM	1	0	19.58	19.53	19.67							
20	256QAM	1	49	18.43	18.51	19.45							
20	256QAM	50	0	19.44	18.46	19.30	20.5	0.5					
20	256QAM	50	24	18.35	19.54	19.31							
20	256QAM	50	50	19.41	18.44	19.30							
20	256QAM	100	0	19.45	18.48	19.30							
Channel													
1869 1869 1869													
15	QPSK	1	0	18.66	18.85	19.84	21	0					
15	QPSK	1	37	18.73	18.82	19.82							
15	QPSK	1	74	18.33	18.68	19.41							
15	QPSK	36	0	18.52	18.75	19.42							
15	QPSK	36	25	18.48	18.78	19.43	21	0					
15	QPSK	36	39	18.38	18.43	19.46							
15	QPSK	75	0	18.56	18.61	19.45							
15	16QAM	1	0	18.54	18.56	19.34							
15	16QAM	1	37	18.42	18.33	19.39	21	0					
15	16QAM	1	74	18.36	18.55	19.37							
15	16QAM	36	0	18.46	18.53	19.26							
15	16QAM	36	20	18.17	18.32	18.49							
15	16QAM	36	29	18.35	18.35	19.24	21	0					
15	16QAM	75	0	18.33	18.38	19.24							
15	64QAM	1	0	19.28	18.43	18.19							
15	64QAM	1	37	18.38	18.38	19.24							
15	64QAM	1	74	18.34	18.53	18.59	21	0					
15	64QAM	36	0	18.19	18.49	18.20							
15	64QAM	36	20	18.36	18.68	18.23							
15	64QAM	36	39	18.20	18.32	18.40							
15	64QAM	75	0	18.19	18.17	18.49	20.5	0.5					
15	256QAM	1	0	18.44	18.44	18.44							
15	256QAM	1	37	18.39	18.39	18.34							
15	256QAM	1	74	18.26	18.39	18.42							
15	256QAM	36	0	18.21	18.21	18.21	20.5	0.5					
15	256QAM	36	20	18.14	18.33	18.17							
15	256QAM	36	39	18.32	18.41	18.34							
15	256QAM	75	0	18.29	18.41	18.34							
Channel													
1869 1869 1869													
5	QPSK	1	0	18.63	18.81	19.85	21	0					
5	QPSK	1	12	18.66	18.47	18.44							
5	QPSK	1	24	18.42	18.81	19.44							
5	QPSK	12	0	18.59	18.69	19.48							
5	QPSK	12	7	18.48	18.76	19.47	21	0					
5	QPSK	12	13	18.36	18.54	19.56							
5	QPSK	25	0	18.63	18.63	19.48							
5	16QAM	1	0	18.41	18.64	19.44							
5	16QAM	1	12	18.38	18.28	19.33	21	0					
5	16QAM	1	24	18.28	18.44	19.29							
5	16QAM	12	0	18.46	18.66	19.29							
5	16QAM	12	7	18.18	18.50	19.36							
5	16QAM	12	13	18.18	18.27	19.46	21	0					
5	16QAM	25	0	18.39	18.36	19.36							
5	64QAM	1	0	18.37	18.45	19.23							
5	64QAM	1	12	18.36	18.19	19.27							
5	64QAM	1	24	18.24	18.40	19.18	21	0					
5	64QAM	12	0	18.43	18.63	19.28							
5	64QAM	12	7	18.05	18.34	19.32							
5	64QAM	12	13	18.25	18.35	19.27							
5	64QAM	25	0	18.29	18.35	19.27	20.5	0.5					
5	256QAM	1	0	18.29	18.33	19.39							
5	256QAM	1	12	18.32	18.33	19.41							
5	256QAM	1	24	18.31	18.31	19.40							
5	256QAM	12	0	18.30	18.31	19.40	20.5	0.5					
5	256QAM	12	7	18.15	18.28	19.15							
5	256QAM	12	13	18.27	18.37	19.31							
5	256QAM	25	0	18.24	18.45	19.30							
Channel													
1869.5 1869 1869.5													
3	QPSK	1	0	18.61	18.76	19.87	21	0					
3	QPSK	1	8	18.55	18.25	18.61							
3	QPSK	1	16	18.42	18.84	19.49							
3	QPSK	8	0	18.54	18.74	19.42							
3	QPSK	8	4	18.40	18.63	19.36	21	0					
3	QPSK	8	12	18.41	18.61	19.33							
3	QPSK	16	0	18.65	18.59	19.52							
3	16QAM	1	0	18.57	18.49	19.34							
3	16QAM	1	8	18.40	18.40	19.40	21	0					
3	16QAM	1	16	18.37	18.37	19.40							
3	16QAM	8	7	18.23	18.13	19.30							
3	16QAM	8	15	18.15	18.15	19.30							
3	16QAM	1	8	18.28	18.25	19.26	21	0					
3	16QAM	1	16	18.23	18.52	19.30							
3	16QAM	8	4	18.17	18.66	19.23							
3	16QAM	8	12	18.17	18.40	19.30							
3	16QAM	16	0	18.33	18.34	19.29	20.5	0.5					
3	256QAM	1	0	18.36	18.56	19.38							
3	256QAM	1	8	18.32	18.32	19.38							
3	256QAM	1	16	18.33	18.42	19.46							
3	256QAM	8	0	18.35	18.31	19.42	20.5	0.5					
3	256QAM	8	7	18.15	18.28	19.23							
3	256QAM	8	15	18.26	18.49	19.42							
3	256QAM	16	0	18.37	18.40	19.34							
Channel													
1869.5 1869 1869.5													
1.4	QPSK	1	0	18.67	18.72	19.87	21	0					
1.4	QPSK	1	8	18.55	18.25	18.61							
1.4	QPSK	1	16	18.42	18.83	19.49							
1.4	QPSK	1	8	18.47	18.74	19.42							
1.4	QPSK	3	0	18.52	18.61	19.47	21	0					
1.4	QPSK	3	8	18.55	18.58	19.46							
1.4	QPSK	3	16	18.44	18.50	19.52							
1.4	QPSK	3	8	18.44	18.50	19.50							
1.4	QPSK	6	0	18.49	18.45	19.51	21	0					
1.4	QPSK	6	8	18.45	18.55	19.49							
1.4	QPSK	6	16	18.37	18.63	19.49							
1.4	QPSK	6	8	18.17	18.48	19.37							
1.4	QPSK	3	0	18.25	18.40	19.37	21	0					
1.4	QPSK	3	8	18.24	18.15	19.43							
1.4	QPSK	3	16	18.15	18.46	19.35							
1.4	QPSK	3	8	18.15	18.46	19.35							
1.4	QPSK	6	0	18.25	18.40	19.38	21	0					
1.4	QPSK	6	8	18.20	18.29	19.37							
1.4	QPSK	6	16	18.15	18.46	19.35							
1.4	QPSK	6	8	18.15	18.46	19.35							
1.4	QPSK	3	0	18.19	18.52	19.21	20.5	0.5					
1.4	QPSK	3	8	18.19	18.52	19.21							
1.4	QPSK	3	16	18.16	18.27	19.48							
1.4	QPSK	3	8	18.22	18.28	19.44							
1.4	QPSK	6	0	18.25	18.35	19.39	20.5	0.5					
1.4	QPSK	6	8	18.23	18.37	19.38							
1.4	QPSK	6	16	18.33	18.33	19.47							
1.4	QPSK	6	8	18.27	18.39	19.39							
1.4	QPSK	3	0	18.25	18.40	19.33	20.5	0.5					
1.4	QPSK	3	8	18.25	18.40	19.33							
1.4	QPSK	3	16	18.25	18.40	19.33							
1.4	QPSK	3	8	18.25	18.40	19.33							

Band 2 Ant2 DSI2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.51	21.42	22.26	23.5	0						
20	QPSK	1	49	21.68	21.59	22.43								
20	QPSK	1	99	21.66	23.28	23.18								
20	QPSK	50	0	22.39	22.55	22.52								
20	QPSK	50	24	22.25	22.44	22.37	23.5	0						
20	QPSK	50	50	22.24	22.42	22.36								
20	QPSK	100	0	22.25	22.33	22.27								
20	QPSK	100	24	22.09	22.27	22.29								
20	16QAM	1	49	22.01	22.35	22.23	22.5	1						
20	16QAM	1	99	22.05	22.11	22.01								
20	16QAM	50	0	21.35	21.54	21.50								
20	16QAM	50	24	21.32	21.44	21.46								
20	16QAM	50	50	21.31	21.37	21.26	22	1.5						
20	16QAM	100	0	21.34	21.39	21.25								
20	64QAM	1	0	21.53	21.63	21.72								
20	64QAM	1	49	21.48	21.52	21.70								
20	64QAM	50	0	21.47	21.71	21.44	21	2.5						
20	64QAM	50	0	20.39	20.62	20.59								
20	64QAM	50	24	20.40	20.41	20.56								
20	64QAM	50	50	20.21	20.38	20.40								
20	256QAM	100	0	20.44	20.52	20.29	19	4.5						
20	256QAM	1	49	18.78	18.96	18.99								
20	256QAM	1	99	18.69	18.82	18.89								
20	256QAM	50	24	18.61	18.71	18.87								
20	256QAM	50	50	18.63	18.79	18.88	19	4.5						
20	256QAM	100	0	18.71	18.83	18.84								
Channel														
Frequency (MHz)														
18	QPSK	1	0	21.08	21.25	22.08	23.5	0						
18	QPSK	1	37	21.07	21.02	21.87								
18	QPSK	1	74	21.63	23.02	21.94								
18	QPSK	36	0	22.28	22.45	22.43								
18	QPSK	36	37	22.17	22.35	22.29	23.5	0						
18	QPSK	36	74	22.09	22.22	22.27								
18	QPSK	75	0	22.07	22.25	22.22								
18	QPSK	75	37	21.98	21.98	22.19								
18	16QAM	1	37	21.78	22.11	22.06	22.5	1						
18	16QAM	1	74	21.76	21.96	21.99								
18	16QAM	36	0	21.26	21.49	21.35								
18	16QAM	36	37	21.25	21.21	21.42								
18	16QAM	36	74	21.16	21.22	21.24	22	1.5						
18	16QAM	75	0	21.08	21.22	21.24								
18	64QAM	1	0	21.39	21.58	21.46								
18	64QAM	1	37	21.38	21.45	21.48								
18	64QAM	1	74	21.39	21.52	21.23	21	2.5						
18	64QAM	36	0	20.30	20.45	20.35								
18	64QAM	36	37	20.30	20.36	20.47								
18	64QAM	36	74	20.11	20.15	20.35								
18	64QAM	75	0	20.28	20.38	20.06	19	4.5						
18	256QAM	1	0	18.53	18.60	18.60								
18	256QAM	1	37	18.57	18.91	18.81								
18	256QAM	1	74	18.62	18.86	18.54								
18	256QAM	36	0	18.55	18.58	18.55	19	4.5						
18	256QAM	36	37	18.35	18.52	18.80								
18	256QAM	36	74	18.48	18.62	18.58								
18	256QAM	75	0	18.49	18.63	18.44								
Channel														
Frequency (MHz)														
18	QPSK	1	0	21.63	21.35	22.18	23.5	0						
18	QPSK	1	12	21.58	22.97	21.83								
18	QPSK	1	24	21.51	23.59	21.97								
18	QPSK	12	0	22.12	22.42	22.13								
18	QPSK	12	7	22.16	22.19	22.23	23.5	0						
18	QPSK	12	13	22.17	22.30	22.25								
18	QPSK	25	12	22.08	22.27	22.14								
18	QPSK	25	0	21.88	22.11	22.03								
18	16QAM	1	0	21.62	22.05	22.15	22.5	1						
18	16QAM	1	12	21.61	22.21	22.09								
18	16QAM	1	24	21.52	22.27	22.14								
18	16QAM	12	0	21.20	21.30	21.27								
18	16QAM	12	7	21.19	21.29	21.28	22	1.5						
18	16QAM	12	13	21.17	21.26	21.21								
18	16QAM	25	0	21.28	21.17	21.10								
18	64QAM	1	0	21.30	21.56	21.33								
18	64QAM	1	24	21.32	21.59	21.47	21	2.5						
18	64QAM	1	24	21.32	21.67	21.36								
18	64QAM	12	0	20.22	20.36	20.49								
18	64QAM	12	7	20.30	20.37	20.48								
18	64QAM	12	13	20.03	20.35	20.23	19	4.5						
18	64QAM	25	0	20.24	20.25	20.12								
18	256QAM	1	0	18.59	18.68	18.68								
18	256QAM	1	12	18.59	18.96	18.86								
18	256QAM	1	24	18.62	18.88	18.53	19	4.5						
18	256QAM	12	0	18.49	18.84	18.82								
18	256QAM	12	7	18.63	18.73	18.80								
18	256QAM	12	13	18.40	18.60	18.48								
18	256QAM	25	0	18.56	18.62	18.43	19	4.5						
18	256QAM	100	0	18.62	18.68	18.65								
Channel														
Frequency (MHz)														
3	QPSK	1	0	21.63	21.35	22.18	23.5	0						
3	QPSK	1	12	21.58	22.97	21.83								
3	QPSK	1	24	21.51	23.59	21.97								
3	QPSK	12	0	22.12	22.42	22.13								
3	QPSK	12	7	22.16	22.19	22.23	23.5	0						
3	QPSK	12	13	22.17	22.30	22.25								
3	QPSK	25	12	22.08	22.27	22.14								
3	QPSK	25	0	21.88	22.11	22.03								
3	16QAM	1	0	21.62	22.05	22.15	22.5	1						
3	16QAM	1	12	21.61	22.21	22.09								
3	16QAM	1	24	21.52	22.27	22.14								
3	16QAM	12	0	21.20	21.30	21.27								
3	16QAM	12	7	21.19	21.29	21.28	22	1.5						
3	16QAM	12	13	21.17	21.26	21.21								
3	16QAM	25	0	21.28	21.17	21.10								
3	64QAM	1	0	21.30	21.56	21.33								
3	64QAM	1	24	21.32	21.59	21.47	21	2.5						
3	64QAM	1	24	21.32	21.67	21.36								
3	64QAM	12	0	20.22	20.36	20.49								
3	64QAM	12	7	20.30	20.37	20.48								
3	64QAM	12	13	20.03	20.35	20.23	19	4.5						
3	64QAM	25	0	20.24	20.25	20.12								
3	256QAM	1	0	18.59	18.68	18.68								
3	256QAM	1	12	18.59	18.96	18.86								
3	256QAM	1	24	18.62	18.88	18.53	19	4.5						
3	256QAM	12	0	18.49	18.84	18.82								
3	256QAM	12	7	18.63	18.73	18.80								
3	256QAM	12	13	18.40	18.60	18.48								
3	256QAM	25	0	18.56	18.62	18.43	19	4.5						
3	256QAM	100	0	18.62	18.68	18.65								
Channel														
Frequency (MHz)														
3	QPSK	1	0	21.63	21.35	22.18	23.5	0						
3	QPSK	1	12	21.58	22.97	21.83								
3	QPSK	1	24	21.51	23.59	21.97								
3	QPSK	12	0	22.12	22.42	22.13								
3	QPSK	12	7	22.16	22.19	22.23	23.5	0						
3	QPSK	12	13	22.17	22.30	22.25								
3	QPSK	25	12	22.08	22.27	22.14								
3	QPSK	25	0	21.88	22.11	22.03								
3	16QAM	1	0	21.62	22.05	22.15	22.5	1						
3	16QAM	1	12	21.61	22.21	22.09								
3	16QAM	1	24	21.52	22.27	22.14								
3	16QAM	12	0	21.20	21.30	21.27								
3	16QAM	12	7	21.19	21.29	21.28	22	1.5						
3	16QAM	12	13	21.17	21.26	21.21								
3	16QAM	25	0	21.28	21.17	21.10								
3	64QAM	1	0	21.30	21.56	21.33								
3	64QAM	1	24	21.32	21.59	21.47	21	2.5						
3	64QAM	1	24	21.32	21.67	21.36								
3	64QAM	12	0	20.22	20.36	20.49								
3	64QAM	12	7	20.30	20.37	20.48								
3	64QAM	12	13	20.03	20.35	20.23	19	4.5						
3	64QAM	25	0	20.24	20.25	20.12								
3	256QAM	1	0	18.59	18.68	18.68								
3	256QAM	1	12	18.59	18.96	18.86								
3	256QAM	1	24	18.62	18.88	18.53	19	4.5						
3	256QAM	12	0	18.49	18.84	18.82								
3	256QAM	12	7	18.63	18.73	18.80								
3	256QAM	12	13	18.40	18.60	18.48								
3	256QAM	25	0	18.56	18.62	18.43	19	4.5						
3	256QAM	100	0	18.62	18.68	18.65								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	21.63	21.35	22.18	23.5	0						
1.4	QPSK	1	12	21.58	22.97	21.83								
1.4	QPSK	1	24	21.51	23.59	21.97								
1.4	QPSK	12	0	22.12	22.42	22.13								
1.4	QPSK	12	7	22.16	22.19	22.23	23.5	0						
1.4	QPSK	12	13	22.17	22.30	22.25								
1.4	QPSK	25	12	22.08	22.27	22.14								
1.4	QPSK	25	0	21.88	22.11	22.03								
1.4	16QAM	1	0	21.62	22.05	22.15	22.5	1						
1.4	16QAM	1	12	21.61	22.21	22.09								
1.4	16QAM	1	24	21.52	22.27	22.14								
1.4	16QAM	12	0	21.20	21.30	21.27								
1.4	16QAM	12	7	21.19	21.29	21.28	22	1.5						
1.4	16QAM	12	13	21.17	21.26	21.21								
1.4	16QAM	25	0	21.28	21.17	21.10								
1.4	64QAM	1	0	21.30	21.56	21.33								
1.4	64QAM	1	24	21.32	21.59	21.47	21	2.5						
1.4	64QAM	1	24	21.32	21.67	21.36								
1.4	64QAM	12	0	20.22	20.36	20.49								
1.4	64QAM	12	7	20.30	20.37	20.48								
1.4	64QAM	12	13	20.03	20.35	20.23	19	4.5						
1.4	64QAM	25	0	20.24	20.25	20.12								
1.4	256QAM	1	0	18.59	18.68	18.68								
1.4	256QAM	1	12	18.59	18.96									

Band 2 Ant3 DS12														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turnup time (min)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	16.07	16.05	16.71	16.1	0						
20	QPSK	1	49	16.43	16.52	16.51								
20	QPSK	1	99	16.54	16.62	16.68								
20	QPSK	50	0	16.43	16.64	16.63								
20	QPSK	50	24	16.43	16.42	16.29	16.1	0						
20	QPSK	50	50	16.37	16.48	16.58								
20	QPSK	100	0	16.43	16.72	16.60								
20	16QAM	1	0	16.62	16.67	16.64								
20	16QAM	1	49	16.25	16.26	16.43	16.1	0						
20	16QAM	1	99	16.48	16.40	16.34								
20	16QAM	50	0	16.23	16.40	16.20								
20	16QAM	50	24	16.35	16.37	16.23								
20	16QAM	50	50	16.30	16.36	16.42	16.1	0						
20	16QAM	100	0	16.36	16.59	16.26								
20	16QAM	100	0	16.41	16.77	16.54								
20	64QAM	1	0	16.38	16.44	16.43								
20	64QAM	1	49	16.43	16.57	16.54	16.1	0						
20	64QAM	50	0	16.37	16.48	16.48								
20	64QAM	50	24	16.24	16.37	16.26								
20	64QAM	50	50	16.30	16.36	16.42								
20	256QAM	1	0	16.36	16.66	16.46	16.1	0						
20	256QAM	1	99	16.39	16.59	16.36								
20	256QAM	50	0	16.18	16.60	16.53								
20	256QAM	50	24	16.18	16.47	16.14								
20	256QAM	50	50	16.23	16.28	16.50								
20	256QAM	100	0	16.31	16.68	16.51								
Channel														
Frequency (MHz)														
16	QPSK	1	0	16.41	16.78	16.64	16.1	0						
16	QPSK	1	37	16.33	16.48	16.28								
16	QPSK	1	74	16.46	16.43	16.54								
16	QPSK	36	0	16.31	16.58	16.43								
16	QPSK	36	18	16.20	16.58	16.20	16.1	0						
16	QPSK	36	36	16.12	16.33	16.36								
16	QPSK	75	0	16.26	16.53	16.35								
16	16QAM	1	37	16.44	16.44	16.44								
16	16QAM	1	37	16.21	16.03	16.39	16.1	0						
16	16QAM	1	74	16.36	16.36	16.46								
16	16QAM	36	20	16.28	16.20	16.06								
16	16QAM	36	39	16.19	16.22	16.25								
16	16QAM	36	20	16.14	16.08	16.08	16.1	0						
16	16QAM	75	0	16.18	16.52	16.19								
16	64QAM	1	0	16.33	16.72	16.51								
16	64QAM	1	37	16.34	16.68	16.29								
16	64QAM	36	0	16.22	16.41	16.26	16.1	0						
16	64QAM	36	20	16.08	16.12	16.24								
16	64QAM	36	36	16.06	16.18	16.23								
16	64QAM	75	0	16.16	16.55	16.25								
16	64QAM	75	0	16.16	16.55	16.25	16.1	0						
16	64QAM	75	0	16.16	16.55	16.25								
16	256QAM	1	37	16.23	16.10	16.20								
16	256QAM	1	74	16.22	16.47	16.08								
16	256QAM	36	0	16.07	16.42	16.07	16.1	0						
16	256QAM	36	20	16.08	16.28	16.07								
16	256QAM	36	20	16.08	16.28	16.07								
16	256QAM	75	0	16.16	16.53	16.25								
16	256QAM	75	0	16.16	16.53	16.25	16.1	0						
16	256QAM	36	39	16.16	16.53	16.36								
16	256QAM	75	0	16.09	16.44	16.06								
Channel														
Frequency (MHz)														
16	QPSK	1	0	16.43	16.81	16.67			16.1	0				
16	QPSK	1	25	16.33	16.38	16.33								
16	QPSK	1	49	16.32	16.47	16.54								
16	QPSK	25	0	16.36	16.46	16.36								
16	QPSK	25	12	16.39	16.45	16.30	16.1	0						
16	QPSK	25	25	16.21	16.26	16.49								
16	QPSK	50	0	16.36	16.50	16.36								
16	16QAM	1	0	16.38	16.55	16.54								
16	16QAM	1	26	16.09	16.18	16.37	16.1	0						
16	16QAM	1	50	16.16	16.34	16.34								
16	16QAM	25	0	16.13	16.21	16.21								
16	16QAM	25	12	16.21	16.17	16.11								
16	16QAM	25	12	16.03	16.26	16.03	16.1	0						
16	16QAM	50	0	16.20	16.36	16.30								
16	64QAM	1	0	16.22	16.66	16.45								
16	64QAM	1	24	16.10	16.43	16.16								
16	64QAM	1	49	16.20	16.35	16.46	16.1	0						
16	64QAM	25	0	16.25	16.26	16.35								
16	64QAM	25	12	16.18	16.26	16.27								
16	64QAM	25	25	16.08	16.09	16.17								
16	64QAM	50	0	16.11	16.54	16.48	16.1	0						
16	64QAM	50	0	16.11	16.54	16.48								
16	256QAM	1	26	16.17	16.16	16.24								
16	256QAM	1	49	16.21	16.34	16.25								
16	256QAM	25	0	16.08	16.47	16.25	16.1	0						
16	256QAM	25	12	16.00	16.23	16.08								
16	256QAM	25	25	16.06	16.21	16.06								
16	256QAM	50	0	16.05	16.47	16.23								
Channel														
Frequency (MHz)														
5	QPSK	1	0	16.43	16.71	16.67	16.1	0						
5	QPSK	1	12	16.27	16.46	16.44								
5	QPSK	1	24	16.29	16.46	16.48								
5	QPSK	12	0	16.29	16.46	16.48								
5	QPSK	12	7	16.28	16.48	16.32	16.1	0						
5	QPSK	12	13	16.29	16.24	16.54								
5	QPSK	25	0	16.37	16.53	16.48								
5	16QAM	1	0	16.46	16.48	16.38								
5	16QAM	1	12	16.09	16.00	16.24	16.1	0						
5	16QAM	1	24	16.04	16.16	16.16								
5	16QAM	12	0	16.10	16.27	16.27								
5	16QAM	12	7	16.21	16.32	16.12								
5	16QAM	12	13	16.12	16.21	16.25	16.1	0						
5	16QAM	25	0	16.17	16.38	16.16								
5	64QAM	1	0	16.27	16.51	16.42								
5	64QAM	1	12	16.29	16.29	16.29								
5	64QAM	1	24	16.20	16.53	16.36	16.1	0						
5	64QAM	12	0	16.32	16.24	16.41								
5	64QAM	12	7	16.17	16.34	16.12								
5	64QAM	12	13	16.08	16.25	16.39	16.1	0						
5	64QAM	25	0	16.12	16.39	16.28								
5	64QAM	25	12	16.02	16.28	16.11								
5	64QAM	25	0	16.16	16.41	16.42								
Channel														
Frequency (MHz)														
3	QPSK	1	0	16.46	16.73	16.69	16.1	0						
3	QPSK	1	8	16.29	16.47	16.43								
3	QPSK	1	16	16.38	16.48	16.50								
3	QPSK	8	0	16.23	16.58	16.50								
3	QPSK	8	4	16.38	16.53	16.32	16.1	0						
3	QPSK	8	12	16.29	16.37	16.53								
3	QPSK	16	0	16.27	16.61	16.47								
3	16QAM	1	0	16.47	16.60	16.54								
3	16QAM	1	8	16.19	16.19	16.32	16.1	0						
3	16QAM	1	16	16.29	16.35	16.17								
3	16QAM	8	0	16.04	16.39	16.09								
3	16QAM	8	4	16.25	16.39	16.25								
3	16QAM	8	7	16.22	16.22	16.18	16.1	0						
3	16QAM	16	0	16.07	16.50	16.25								
3	16QAM	16	0	16.37	16.68	16.44								
3	64QAM	1	8	16.31	16.20	16.25								
3	64QAM	1	16	16.33	16.33	16.33	16.1	0						
3	64QAM	8	0	16.28	16.31	16.23								
3	64QAM	8	4	16.03	16.47	16.23								
3	64QAM	16	0	16.15	16.60	16.35								
3	256QAM	1	0	16.27	16.44	16.32	16.1	0						
3	256QAM	1	8	16.23	16.33	16.29								
3	256QAM	1	16	16.15	16.36	16.21								
3	256QAM	8	0	16.06	16.35	16.48								
3	256QAM	8	4	16.20	16.29	16.14	16.1	0						
3	256QAM	8	7	16.17	16.18	16.15								
3	256QAM	16	0	16.14	16.67	16.31								
3	256QAM	16	0	16.14	16.67	16.31								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	16.51	16.77	16.80	16.1	0						
1.4	QPSK	1	8	16.28	16.28	16.28								
1.4	QPSK	1	16	16.27	16.28	16.51								
1.4	QPSK	3	0	16.21	16.53	16.43								
1.4	QPSK	3	8	16.32	16.50	16.29	16.1	0						
1.4	QPSK	3	16	16.14	16.43	16.35								
1.4	QPSK	6	0	16.37	16.65	16.56								
1.4	QPSK	6	8	16.41	16.49	16.39								
1.4	16QAM	1	0	16.16	16.14	16.26	16.1	0						
1.4	16QAM	1	8	16.28	16.14	16.08								
1.4	16QAM	1	16	16.19	16.27	16.12								
1.4	16QAM	3	0	16.14	16.22	16.35								
1.4	16QAM	3	8	16.19	16.29	16.34	16.1	0						
1.4	16QAM	3	16	16.11	16.14	16.11								
1.4	16QAM	6	0	16.32	16.73	16.59								
1.4	16QAM	6	8	16.30	16.31	16.42								
1.4	16QAM	3	0	16.26	16.21	16.41	16.1	0						
1.4	16QAM	3	8	16.26	16.21	16.41								
1.4	16QAM	6	0	16.06	16.16	16.39								
1.4	16QAM	6	8	16.03	16.50	16.34								
1.4	64QAM	1	0	16.27	16.45	16.45	16.1	0						
1.4	64QAM	1	8	16.22	16.50	16.58								
1.4	64QAM	3	0	16.23	16.53	16.53								
1.4	64QAM	3	8	16.03	16.36	16.07								
1.4	256QAM	1	0	16.22	16.50	16.58	16.1	0						
1.4														

Full&Default Power Mode for Other PA

Band 2 Ant0										
RV (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Ch / Freq	Power High Ch / Freq	Turn-on time (ms)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.15	23.32	22.89				
20	QPSK	1	49	23.04	23.22	22.89	24	0		
20	QPSK	1	99	23.03	23.21	22.89				
20	QPSK	50	0	22.58	22.60	22.89				
20	QPSK	50	24	22.87	22.89	22.82				
20	QPSK	50	50	22.75	22.88	22.82	24	0		
20	QPSK	100	0	23.15	23.15	22.85				
20	16QAM	1	0	22.97	23.20	23.08				
20	16QAM	1	49	23.02	23.18	23.13	24	0		
20	16QAM	1	99	22.98	23.13	22.98				
20	16QAM	50	0	22.85	22.71	22.67				
20	16QAM	50	24	22.82	22.85	22.82	23.5	0.5		
20	16QAM	50	50	22.81	22.85	22.82				
20	16QAM	100	0	22.59	22.69	22.56				
20	64QAM	1	49	22.59	22.65	22.57	23.5	0.5		
20	64QAM	1	99	22.66	22.71	22.59				
20	64QAM	50	0	21.85	21.81	21.81	22.5	1.5		
20	64QAM	50	24	21.46	21.81	21.35				
20	64QAM	50	50	21.56	21.81	21.44				
20	64QAM	100	0	21.56	21.70	21.60				
20	256QAM	1	0	19.51	19.66	19.59				
20	256QAM	1	49	19.67	19.67	19.53	20.5	3.5		
20	256QAM	1	99	19.57	19.65	19.53				
20	256QAM	50	0	19.55	19.59	19.43				
20	256QAM	50	24	19.42	19.67	19.51				
20	256QAM	50	50	19.26	19.68	19.36	20.5	3.5		
20	256QAM	100	0	19.39	19.49	19.38				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.67	18.80	19.03	Turn-on time (ms)	MPR (dB)		
15	QPSK	1	37	23.01	23.10	22.79				
15	QPSK	1	74	22.78	23.02	22.89	24	0		
15	QPSK	1	74	22.91	23.04	22.81				
15	QPSK	36	0	22.81	22.91	22.82				
15	QPSK	36	20	22.78	22.88	22.64	24	0		
15	QPSK	36	36	22.68	22.88	22.89				
15	QPSK	75	0	23.08	23.12	22.86				
15	16QAM	1	0	22.92	23.06	22.89				
15	16QAM	1	37	22.75	23.13	22.88	24	0		
15	16QAM	1	74	22.72	22.96	22.84				
15	16QAM	36	0	22.46	22.49	22.59				
15	16QAM	36	20	22.22	22.38	22.31	23.5	0.5		
15	16QAM	36	36	22.25	22.31	22.18				
15	16QAM	75	0	22.54	22.59	22.57				
15	16QAM	1	49	22.54	22.72	22.65	23.5	0.5		
15	64QAM	1	37	22.63	22.41	22.49				
15	64QAM	36	0	21.36	21.65	21.26	22.5	1.5		
15	64QAM	36	20	21.23	21.29	21.32				
15	64QAM	75	0	21.38	21.45	21.27				
15	256QAM	1	0	19.38	19.46	19.42	20.5	3.5		
15	256QAM	1	37	19.46	19.34	19.48				
15	256QAM	1	74	19.51	19.48	19.41				
15	256QAM	36	0	19.34	19.47	19.38	20.5	3.5		
15	256QAM	36	20	19.26	19.44	19.35				
15	256QAM	36	36	19.07	19.35	19.24	20.5	3.5		
15	256QAM	75	0	19.18	19.45	19.35				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.96	23.09	22.79				
10	QPSK	1	25	22.62	23.15	22.82	24	0		
10	QPSK	1	49	22.88	22.88	22.88				
10	QPSK	25	0	22.46	22.77	22.51				
10	QPSK	25	12	22.64	22.71	22.78	24	0		
10	QPSK	25	25	22.65	22.80	22.76				
10	QPSK	50	0	22.98	22.94	22.79				
10	QPSK	1	49	22.92	23.07	22.81				
10	16QAM	1	25	22.92	23.08	22.85	24	0		
10	16QAM	1	49	22.95	23.00	22.73				
10	16QAM	25	0	22.56	22.49	22.59				
10	16QAM	25	12	22.51	22.52	22.52	23.5	0.5		
10	16QAM	25	25	22.42	22.45	22.30				
10	16QAM	50	0	22.52	22.52	22.55				
10	64QAM	1	25	22.38	22.41	22.49	23.5	0.5		
10	64QAM	25	0	21.42	21.42	21.42	22.5	1.5		
10	64QAM	25	0	21.42	21.51	21.47				
10	64QAM	25	12	21.20	21.28	21.24	22.5	1.5		
10	64QAM	25	25	21.21	21.43	21.32				
10	64QAM	50	0	21.43	21.57	21.52				
10	256QAM	1	0	19.32	19.51	19.40	20.5	3.5		
10	256QAM	1	25	19.32	19.56	19.34				
10	256QAM	1	49	19.37	19.56	19.34				
10	256QAM	25	0	19.45	19.57	19.40	20.5	3.5		
10	256QAM	25	12	19.32	19.52	19.21				
10	256QAM	25	25	19.06	19.41	19.30	20.5	3.5		
10	256QAM	50	0	19.21	19.40	19.40				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.00	23.15	22.81				
5	QPSK	1	12	23.06	23.10	22.75	24	0		
5	QPSK	1	24	22.84	23.10	22.75				
5	QPSK	12	0	22.44	22.88	22.47				
5	QPSK	12	7	22.65	22.84	22.72	24	0		
5	QPSK	12	13	22.67	22.73	22.67				
5	QPSK	25	0	23.07	23.13	22.82				
5	16QAM	1	12	22.76	22.95	22.81	24	0		
5	16QAM	1	12	22.94	22.92	22.97				
5	16QAM	12	7	22.74	22.89	22.79	23.5	0.5		
5	16QAM	12	13	22.48	22.48	22.48				
5	16QAM	25	0	22.33	22.41	22.40				
5	16QAM	25	7	22.38	22.41	22.41	23.5	0.5		
5	16QAM	25	13	22.22	22.38	22.19				
5	64QAM	1	12	22.43	22.49	22.33	23.5	0.5		
5	64QAM	12	7	22.42	22.44	22.44	23.5	0.5		
5	64QAM	12	0	21.35	21.44	21.36	22.5	1.5		
5	64QAM	12	7	21.21	21.40	21.09				
5	64QAM	12	13	21.50	21.53	21.40	22.5	1.5		
5	64QAM	25	0	21.40	21.45	21.41				
5	256QAM	1	0	19.33	19.57	19.44	20.5	3.5		
5	256QAM	1	12	19.50	19.47	19.48				
5	256QAM	1	24	19.32	19.57	19.36				
5	256QAM	12	0	19.41	19.52	19.38	20.5	3.5		
5	256QAM	12	7	19.36	19.48	19.24				
5	256QAM	12	13	19.22	19.48	19.11	20.5	3.5		
5	256QAM	25	0	19.27	19.22	19.54				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.11	23.08	22.78				
3	QPSK	1	8	22.86	23.08	22.85	24	0		
3	QPSK	1	14	22.86	23.10	22.76				
3	QPSK	8	0	22.49	22.85	22.48				
3	QPSK	8	4	22.75	22.68	22.57	24	0		
3	QPSK	8	7	22.58	22.65	22.61				
3	QPSK	15	0	23.01	23.00	22.71				
3	16QAM	1	8	22.85	22.86	22.81				
3	16QAM	1	8	22.76	23.11	22.84	24	0		
3	16QAM	1	14	22.81	23.09	22.86				
3	16QAM	8	0	22.53	22.49	22.47	23.5	0.5		
3	16QAM	8	4	22.18	22.40	22.43				
3	16QAM	8	7	22.07	22.43	22.12				
3	16QAM	15	0	22.56	22.49	22.32				
3	64QAM	1	0	22.48	22.71	22.61	23.5	0.5		
3	64QAM	1	8	22.54	22.48	22.49				
3	64QAM	14	0	22.42	22.64	22.50				
3	64QAM	8	0	21.41	21.56	21.31	22.5	1.5		
3	64QAM	8	4	21.24	21.40	21.23				
3	64QAM	8	7	21.47	21.34	21.40	22.5	1.5		
3	64QAM	15	0	21.36	21.59	21.46				
3	256QAM	1	0	19.41	19.44	19.37	20.5	3.5		
3	256QAM	1	8	19.50	19.47	19.48				
3	256QAM	1	14	19.46	19.62	19.42				
3	256QAM	8	0	19.50	19.52	19.24	20.5	3.5		
3	256QAM	8	7	19.06	19.35	19.25				
3	256QAM	15	0	19.28	19.48	19.48				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.00	23.22	22.94				
1.4	QPSK	1	22	22.90	22.98	22.72				
1.4	QPSK	1	5	22.79	23.05	22.65	24	0		
1.4	QPSK	1	11	22.85	23.05	22.75				
1.4	QPSK	3	3	22.66	22.91	22.79				
1.4	QPSK	3	3	22.70	22.69	22.68	24	0		
1.4	QPSK	3	11	22.79	23.00	22.88				
1.4	16QAM	1	0	22.87	23.08	22.86				
1.4	16QAM	1	8	22.81	23.07	22.87				
1.4	16QAM	3	1	22.25	22.67	22.41	24	0		
1.4	16QAM	3	11	22.44	22.91	22.41				
1.4	16QAM	6	0	22.44	22.48	22.49	23.0	0.5		
1.4	16QAM	6	8	22.48	22.75	22.68				
1.4	16QAM	6	11	22.56	22.68					

Band 2 Ant1														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MFR (dB)						
Channel														
1800 1800 1800														
20	QPSK	1	0	22.63	22.61	22.64	24	0						
20	QPSK	1	49	22.78	22.78	22.79								
20	QPSK	1	99	22.60	22.77	22.72								
20	QPSK	50	0	22.68	22.62	22.62								
20	QPSK	50	24	22.75	22.68	22.68	24	0						
20	QPSK	50	50	22.62	22.76	22.71								
20	QPSK	100	0	22.69	22.77	22.68								
20	16QAM	100	0	22.71	22.66	22.63								
20	16QAM	1	49	22.60	22.75	22.71	24	0						
20	16QAM	1	99	22.44	22.75	22.62								
20	16QAM	50	0	22.68	22.67	22.68								
20	16QAM	50	24	22.61	22.59	22.43								
20	16QAM	50	50	22.59	22.66	22.60	23.5	0.5						
20	16QAM	100	0	22.40	22.51	22.49								
20	64QAM	1	0	22.38	22.62	22.44								
20	64QAM	1	49	22.44	22.53	22.47								
20	64QAM	50	0	21.46	21.53	21.48	22.5	1.5						
20	64QAM	50	24	21.31	21.43	21.36								
20	64QAM	50	50	21.35	21.51	21.45								
20	64QAM	100	0	21.23	21.39	21.43								
20	256QAM	1	49	19.43	19.61	19.46	20.5	3.5						
20	256QAM	1	99	19.44	19.58	19.35								
20	256QAM	50	0	19.36	19.53	19.47								
20	256QAM	50	24	19.35	19.54	19.31								
20	256QAM	50	50	19.41	19.44	19.30	20.5	3.5						
20	256QAM	100	0	19.35	19.45	19.30								
Channel														
1807.5 1800 1915.5														
16	QPSK	1	0	22.79	22.87	22.77	24	0						
16	QPSK	1	37	22.65	22.78	22.71								
16	QPSK	1	74	22.43	22.73	22.61								
16	QPSK	36	0	22.56	22.78	22.57								
16	QPSK	36	39	22.64	22.68	22.45	24	0						
16	QPSK	36	39	22.51	22.59	22.56								
16	16QAM	75	0	22.52	22.69	22.69								
16	16QAM	1	49	22.40	22.42	22.32								
16	16QAM	1	37	22.32	22.50	22.54	24	0						
16	16QAM	1	74	22.49	22.63	22.67								
16	16QAM	36	0	22.35	22.56	22.47								
16	16QAM	36	39	22.38	22.45	22.33								
16	16QAM	75	0	22.22	22.26	22.32	23.5	0.5						
16	16QAM	75	0	22.22	22.26	22.32								
16	64QAM	1	0	22.45	22.45	22.42								
16	64QAM	1	37	22.53	22.44	22.44								
16	64QAM	1	74	22.25	22.42	22.15	22.5	1.5						
16	64QAM	36	0	21.17	21.35	21.19								
16	64QAM	36	39	21.26	21.38	21.14								
16	64QAM	36	39	21.24	21.35	21.31								
16	64QAM	75	0	21.20	21.25	21.15	20.5	3.5						
16	256QAM	1	49	19.44	19.41	19.44								
16	256QAM	1	37	19.39	19.35	19.34								
16	256QAM	1	74	19.26	19.39	19.42								
16	256QAM	36	0	19.35	19.35	19.35	20.5	3.5						
16	256QAM	36	39	19.26	19.33	19.17								
16	256QAM	36	39	19.32	19.41	19.34								
16	256QAM	75	0	19.29	19.29	19.30								
Channel														
1800 1800 1915.5														
16	QPSK	1	0	22.78	22.78	22.78	24	0						
16	QPSK	1	25	22.75	22.62	22.62								
16	QPSK	1	49	22.61	22.59	22.67								
16	QPSK	1	74	22.63	22.63	22.63								
16	QPSK	25	12	22.57	22.73	22.65	24	0						
16	QPSK	25	25	22.34	22.53	22.63								
16	QPSK	25	25	22.46	22.53	22.63								
16	QPSK	25	25	22.46	22.53	22.63								
16	16QAM	1	0	22.56	22.63	22.59	24	0						
16	16QAM	1	25	22.45	22.66	22.48								
16	16QAM	1	49	22.31	22.47	22.47								
16	16QAM	25	0	22.50	22.42	22.50								
16	16QAM	25	12	22.38	22.47	22.39	23.5	0.5						
16	16QAM	25	12	22.38	22.47	22.39								
16	16QAM	50	0	22.27	22.45	22.30								
16	64QAM	1	0	22.43	22.31	22.28								
16	64QAM	1	25	22.33	22.32	22.30	23.5	0.5						
16	64QAM	1	49	22.33	22.36	22.12								
16	64QAM	25	0	21.22	21.40	21.36								
16	64QAM	25	12	21.26	21.39	21.35								
16	64QAM	25	25	21.31	21.39	21.15	22.5	1.5						
16	64QAM	50	0	21.18	21.36	21.22								
16	256QAM	1	49	19.51	19.35	19.28								
16	256QAM	1	25	19.35	19.50	19.44								
16	256QAM	1	49	19.38	19.40	19.23	20.5	3.5						
16	256QAM	25	0	19.27	19.51	19.27								
16	256QAM	25	12	19.28	19.42	19.27								
16	256QAM	25	25	19.29	19.34	19.27								
16	256QAM	50	0	19.19	19.31	19.26	20.5	3.5						
16	256QAM	50	0	19.25	19.38	19.17								
Channel														
1802.5 1800 1917.5														
5	QPSK	1	0	22.68	22.68	22.68	24	0						
5	QPSK	1	12	22.58	22.66	22.59								
5	QPSK	1	24	22.42	22.65	22.64								
5	QPSK	12	0	22.65	22.68	22.68								
5	QPSK	12	7	22.45	22.60	22.53	24	0						
5	QPSK	12	13	22.47	22.61	22.48								
5	QPSK	25	0	22.62	22.68	22.68								
5	16QAM	1	0	22.41	22.52	22.43								
5	16QAM	1	12	22.43	22.54	22.46	24	0						
5	16QAM	1	24	22.45	22.45	22.42								
5	16QAM	12	0	22.32	22.52	22.26								
5	16QAM	12	7	22.19	22.47	22.31								
5	16QAM	12	13	22.46	22.41	22.36	23.5	0.5						
5	16QAM	25	0	22.30	22.29	22.17								
5	64QAM	1	0	22.24	22.44	22.26								
5	64QAM	1	12	22.15	22.32	22.36								
5	64QAM	1	24	22.40	22.42	22.19	22.5	1.5						
5	64QAM	12	0	21.27	21.42	21.28								
5	64QAM	12	13	21.14	21.33	21.28								
5	64QAM	12	13	21.14	21.42	21.21								
5	64QAM	25	0	21.13	21.28	21.19	20.5	3.5						
5	64QAM	15	0	19.29	19.39	19.39								

Band 2 Ant2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.51	21.42	22.26	23.5	0						
20	QPSK	1	49	21.68	21.59	22.37								
20	QPSK	1	99	21.66	23.28	23.18								
20	QPSK	50	0	22.39	22.30	22.52								
20	QPSK	50	24	22.25	22.44	22.37	23.5	0						
20	QPSK	50	50	22.24	22.42	22.30								
20	QPSK	100	0	22.25	22.33	22.27								
20	QPSK	100	0	22.09	22.17	22.29								
20	16QAM	1	49	22.01	22.35	22.23	22.5	1						
20	16QAM	1	99	22.05	22.11	22.01								
20	16QAM	50	0	21.35	21.54	21.50								
20	16QAM	50	24	21.32	21.44	21.46								
20	16QAM	50	50	21.31	21.37	21.26	22	1.5						
20	16QAM	100	0	21.34	21.39	21.25								
20	64QAM	1	0	21.53	21.63	21.72								
20	64QAM	1	49	21.48	21.52	21.70								
20	64QAM	50	0	21.47	21.71	21.44	21	2.5						
20	64QAM	50	24	20.40	20.41	20.56								
20	64QAM	50	50	20.21	20.38	20.40								
20	64QAM	100	0	20.44	20.52	20.29								
20	256QAM	1	0	18.78	18.96	18.99	19	4.5						
20	256QAM	1	49	18.79	18.98	18.97								
20	256QAM	1	99	18.69	18.82	18.89								
20	256QAM	50	0	18.68	18.86	18.77								
20	256QAM	50	24	18.61	18.71	18.87	19	4.5						
20	256QAM	50	50	18.63	18.79	18.88								
20	256QAM	100	0	18.71	18.81	18.87								
Channel														
Frequency (MHz)														
18	QPSK	1	0	21.07	21.25	22.08	23.5	0						
18	QPSK	1	37	21.07	21.02	21.87								
18	QPSK	1	74	21.63	23.02	21.94								
18	QPSK	36	0	22.28	22.45	22.43								
18	QPSK	36	0	22.17	22.35	22.29	23.5	0						
18	QPSK	36	39	21.99	22.22	22.27								
18	QPSK	75	0	22.07	22.25	22.22								
18	16QAM	1	99	21.86	21.98	22.19								
18	16QAM	1	37	21.78	22.11	22.06	22.5	1						
18	16QAM	1	74	21.76	21.89	21.96								
18	16QAM	36	0	21.26	21.49	21.35								
18	16QAM	36	20	21.25	21.21	21.42								
18	16QAM	36	37	21.16	21.22	21.39	22	1.5						
18	16QAM	75	0	21.08	21.22	21.24								
18	64QAM	1	0	21.39	21.58	21.46								
18	64QAM	1	37	21.38	21.45	21.60								
18	64QAM	1	74	21.39	21.52	21.23	21	2.5						
18	64QAM	36	0	20.30	20.45	20.35								
18	64QAM	36	39	20.30	20.36	20.47								
18	64QAM	36	39	20.11	20.15	20.35								
18	64QAM	75	0	20.28	20.39	20.06	19	4.5						
18	256QAM	1	0	18.53	18.69	18.64								
18	256QAM	1	37	18.57	18.91	18.81								
18	256QAM	1	74	18.62	18.86	18.54								
18	256QAM	36	0	18.55	18.68	18.65	19	4.5						
18	256QAM	36	20	18.35	18.52	18.80								
18	256QAM	36	39	18.48	18.62	18.58								
18	256QAM	75	0	18.49	18.63	18.44								
Channel														
Frequency (MHz)														
18	QPSK	1	0	21.65	21.64	21.95	23.5	0						
18	QPSK	1	25	21.65	23.14	21.95								
18	QPSK	1	49	21.68	23.15	22.25								
18	QPSK	1	49	21.68	23.15	22.25								
18	QPSK	12	0	22.12	22.21	22.33	23.5	0						
18	QPSK	25	12	22.20	22.21	22.23								
18	QPSK	25	25	22.06	22.31	22.18								
18	QPSK	25	25	22.12	22.30	22.25								
18	16QAM	1	0	21.88	22.11	22.03	22.5	1						
18	16QAM	1	26	21.75	22.20	22.05								
18	16QAM	12	0	21.82	22.05	22.00								
18	16QAM	25	0	21.31	21.49	21.29								
18	16QAM	25	12	21.09	21.19	21.35	22	1.5						
18	16QAM	36	0	21.32	21.37	21.21								
18	16QAM	50	0	21.22	21.27	21.23								
18	64QAM	1	0	21.36	21.38	21.47								
18	64QAM	1	24	21.25	21.42	21.40	21	2.5						
18	64QAM	1	49	21.44	21.59	21.37								
18	64QAM	25	0	20.30	20.47	20.50								
18	64QAM	36	12	20.30	20.36	20.48								
18	64QAM	50	0	20.08	20.20	20.26	19	4.5						
18	256QAM	1	0	20.25	20.38	20.09								
18	256QAM	1	26	18.72	18.93	18.92								
18	256QAM	1	49	18.65	18.82	18.85								
18	256QAM	12	0	18.44	18.62	18.65	19	4.5						
18	256QAM	25	12	18.51	18.58	18.74								
18	256QAM	25	25	18.37	18.70	18.53								
18	256QAM	50	0	18.46	18.63	18.43								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.63	22.31	21.83	23.5	0						
5	QPSK	1	12	21.58	22.97	21.83								
5	QPSK	1	24	21.51	23.99	21.97								
5	QPSK	12	0	22.12	22.42	22.13								
5	QPSK	12	7	22.16	22.19	22.23	23.5	0						
5	QPSK	12	13	22.17	22.30	22.25								
5	QPSK	25	0	22.08	22.27	22.14								
5	16QAM	1	0	21.62	22.05	22.15								
5	16QAM	1	12	21.61	22.21	22.09	22.5	1						
5	16QAM	1	24	21.62	22.06	22.15								
5	16QAM	12	0	21.20	21.30	21.27								
5	16QAM	12	7	21.19	21.29	21.28								
5	16QAM	12	13	21.17	21.26	21.21	22	1.5						
5	16QAM	25	0	21.28	21.17	21.10								
5	64QAM	1	0	21.30	21.56	21.33								
5	64QAM	1	24	21.32	21.59	21.47								
5	64QAM	1	24	21.32	21.67	21.36	21	2.5						
5	64QAM	12	0	20.22	20.36	20.49								
5	64QAM	12	7	20.30	20.37	20.48								
5	64QAM	12	13	20.03	20.35	20.23								
5	64QAM	25	0	20.24	20.25	20.12	19	4.5						
5	256QAM	1	0	18.59	18.86	18.88								
5	256QAM	1	12	18.59	18.96	18.86								
5	256QAM	1	24	18.62	18.98	18.53								
5	256QAM	12	0	18.49	18.84	18.82	19	4.5						
5	256QAM	12	7	18.43	18.93	18.80								
5	256QAM	12	13	18.40	18.80	18.40								
5	256QAM	25	0	18.65	18.62	18.43	19	4.5						
Channel														
Frequency (MHz)														
3	QPSK	1	0	21.53	22.34	21.99					23.5	0		
3	QPSK	1	12	21.50	23.10	22.24								
3	QPSK	1	24	21.61	23.17	22.05								
3	QPSK	8	0	22.15	22.44	22.40								
3	QPSK	8	7	22.16	22.46	22.42	23.5	0						
3	QPSK	8	14	22.15	22.46	22.42								
3	QPSK	16	0	22.18	22.30	22.25								
3	QPSK	16	8	22.15	22.35	22.24								
3	16QAM	1	0	21.62	22.05	22.15	22.5	1						
3	16QAM	1	14	21.60	22.20	22.08								
3	16QAM	1	28	21.67	22.27	22.09								
3	16QAM	8	0	21.86	22.16	22.10								
3	16QAM	1	14	22.00	22.06	21.78	22	1.5						
3	16QAM	1	28	22.01	22.08	21.80								
3	16QAM	8	0	21.36	21.45	21.41								
3	16QAM	8	7	21.37	21.44	21.59								
3	16QAM	1	8	21.30	21.52	21.40	22	1.5						
3	16QAM	1	8	21.36	21.45	21.41								
3	16QAM	8	0	20.24	20.59	20.49								
3	16QAM	8	7	20.25	20.52	20.42								
3	16QAM	8	14	20.18	20.54	20.41	21	2.5						
3	16QAM	8	14	20.18	20.54	20.41								
3	16QAM	16	0	20.33	20.32	20.32								
3	256QAM	1	0	18.73	18.81	18.84								
3	256QAM	1	8	18.76	18.94	18.84	19	4.5						
3	256QAM	1	16	18.68	18.84	18.84								
3	256QAM	16	0	18.68	18.84	18.84								
3	256QAM	16	8	18.54	18.95	18.86								
3	256QAM	1	14	18.50	18.66	18.62	19	4.5						
3	256QAM	1	14	18.50	18.66	18.62								
3	256QAM	16	8	18.52	18.93	18.82								
3	256QAM	8	7	18.26	18.53	18.40	19	4.5						
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	21.52	22.30	22.04					23.5	0		
1.4	QPSK	1	12	21.50	23.10	22.24								
1.4	QPSK	1	24	21.61	23.17	22.05								
1.4	QPSK	8	0	22.21	22.40	22.42								
1.4	QPSK	8	7	22.15	22.38	22.40	23.5	0						
1.4	QPSK	8	14	22.15	22.38	22.40								
1.4	QPSK	16	0	22.18	22.30	22.25								
1.4	QPSK	16	8	22.15	22.35	22.24								
1.4	16QAM	1	0	21.61	22.05	22.15	22.5	1						
1.4	16QAM	1	3	21.60	22.08	22.14								
1.4	16QAM	1	6	21.60	22.08	22.14								
1.4	16QAM	8	0	21.61	21.88	21.84								
1.4	16QAM	1	3	21.62	21.68	21.84	22	1.5						
1.4	16QAM	1	6	21.62	21.68	21.84								
1.4	16QAM	8	0	21.22	21.29	21.12								
1.4	16QAM	8	7	21.23	21.29	21.12								
1.4	16QAM	1	0	21.48	21.53	21.66	22	1.5						
1.4	16QAM	1	3	21.48	21.53	21.66								
1.4	16QAM	8	0	20.65	21.05	20.98								
1.4	16QAM	8	7	20.66	21.05	20.98								
1.4	16QAM	3	0	20.55	20.83	20.76	21	2.5						
1.4	16QAM	3	7	20.53	20.80	20.70								
1.4	256QAM	1	0	18.63	18.92	18.83								
1.4	256QAM	1	3	18.63	18.92	18.83								
1.4	256QAM	1	6	18.63	18.93	18.82	19	4.5						

Band 2 Ant3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MFR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.26	22.26	22.86	23.5	0			
20	QPSK	1	49	22.21	22.19	22.66					
20	QPSK	1	99	22.05	22.05	22.76					
20	QPSK	50	0	23.00	23.02	23.61					
20	QPSK	50	24	22.94	22.79	22.85	23.5	0			
20	QPSK	50	50	22.77	22.63	22.86					
20	QPSK	100	0	22.85	22.89	22.91					
20	16QAM	50	0	22.85	22.88	22.89					
20	16QAM	1	99	22.68	22.89	22.86	23.5	0			
20	16QAM	1	49	22.75	22.57	22.72					
20	16QAM	50	24	22.25	22.14	22.37					
20	16QAM	50	50	22.05	22.16	22.07					
20	16QAM	100	0	22.25	22.25	22.26	23	0.5			
20	16QAM	1	0	22.30	22.42	22.38					
20	16QAM	1	49	22.28	22.14	22.14					
20	16QAM	50	0	21.30	21.34	21.30					
20	16QAM	50	24	21.34	21.07	21.45	22	1.5			
20	16QAM	50	50	21.12	21.20	21.22					
20	16QAM	100	0	21.22	21.20	21.22					
20	256QAM	1	49	19.39	19.33	19.38					
20	256QAM	1	99	19.28	19.47	19.27	20	3.5			
20	256QAM	50	0	19.30	19.02	19.43					
20	256QAM	50	24	19.25	19.11	19.48					
20	256QAM	50	50	19.00	19.16	19.40					
20	256QAM	100	0	19.28	19.38	19.39					
20	256QAM	1	0	19.25	19.02	19.25					
Channel											
Frequency (MHz)											
16	QPSK	1	0	18.75	18.80	19.02	23.5	0			
16	QPSK	1	37	22.22	22.15	22.86					
16	QPSK	1	74	21.82	23.07	22.52					
16	QPSK	36	0	22.88	22.79	22.85					
16	QPSK	36	39	22.84	22.88	22.88	23.5	0			
16	QPSK	36	39	22.73	22.82	22.89					
16	QPSK	75	0	22.78	22.78	22.78					
16	QPSK	75	0	22.71	22.71	22.75					
16	16QAM	1	37	22.66	22.32	22.46	23.5	0			
16	16QAM	1	74	22.59	22.33	22.36					
16	16QAM	36	0	22.24	22.19	22.31					
16	16QAM	36	39	22.22	21.92	22.13					
16	16QAM	36	39	22.08	22.08	22.08	22	0.5			
16	16QAM	75	0	22.04	22.09	22.08					
16	16QAM	75	0	22.03	22.27	22.22					
16	16QAM	1	37	22.05	22.05	22.05					
16	16QAM	1	74	21.93	22.31	22.23	20	3.5			
16	16QAM	36	0	21.15	21.17	21.15					
16	16QAM	36	39	21.08	21.08	21.08					
16	16QAM	36	39	20.98	21.05	21.05					
16	16QAM	75	0	21.08	20.98	21.08	20	3.5			
16	256QAM	1	37	19.24	19.35	19.30					
16	256QAM	1	74	19.23	19.26	19.06					
16	256QAM	36	39	19.28	19.05	19.30					
16	256QAM	36	39	19.38	18.96	19.19					
16	256QAM	75	0	19.15	19.15	19.15					
Channel											
Frequency (MHz)											
16	QPSK	1	0	18.65	18.66	19.00	23.5	0			
16	QPSK	1	25	21.83	23.06	22.59					
16	QPSK	1	49	21.91	23.12	22.71					
16	QPSK	36	0	22.87	22.77	22.86					
16	QPSK	25	12	22.80	22.62	22.70	23.5	0			
16	QPSK	25	25	22.65	22.89	22.88					
16	QPSK	75	0	22.80	22.80	22.80					
16	QPSK	75	0	22.71	22.71	22.75					
16	16QAM	1	0	22.61	22.73	22.87	23.5	0			
16	16QAM	1	26	22.62	22.32	22.51					
16	16QAM	1	49	22.59	22.33	22.36					
16	16QAM	25	0	22.04	22.10	22.17					
16	16QAM	25	12	22.12	22.01	22.17	23	0.5			
16	16QAM	36	0	22.02	22.02	22.08					
16	16QAM	36	39	22.02	21.93	22.07					
16	16QAM	50	0	22.21	22.31	22.20					
16	16QAM	1	24	22.24	22.08	22.03	23	0.5			
16	16QAM	1	49	22.00	22.25	22.11					
16	16QAM	25	0	21.25	21.28	21.06					
16	16QAM	25	12	21.20	21.13	21.06					
16	16QAM	25	25	20.87	21.13	21.06	22	1.5			
16	16QAM	50	0	21.01	21.15	21.15					
16	16QAM	50	0	21.05	21.11	21.11					
16	16QAM	50	0	21.05	21.11	21.15					
16	16QAM	50	0	21.05	21.11	21.15					
16	256QAM	1	26	19.11	19.37	19.04					
16	256QAM	1	49	19.08	19.34	19.07	20	3.5			
16	256QAM	25	0	19.15	19.20	19.26					
16	256QAM	25	12	19.19	19.02	19.34					
16	256QAM	25	25	18.94	19.01	19.33					
16	256QAM	50	0	19.24	19.34	19.29					
16	256QAM	50	0	19.24	19.34	19.29					
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.05	22.05	22.75	23.5	0			
5	QPSK	1	12	21.90	22.30	22.47					
5	QPSK	1	24	21.94	22.19	22.74					
5	QPSK	12	0	22.81	22.68	22.81					
5	QPSK	12	7	22.64	22.55	22.76	23.5	0			
5	QPSK	12	13	22.54	22.76	22.70					
5	QPSK	25	0	22.12	22.12	22.12					
5	16QAM	1	0	22.63	22.67	22.66					
5	16QAM	1	12	22.70	22.52	22.69	23.5	0			
5	16QAM	1	24	22.45	22.75	22.75					
5	16QAM	12	0	22.23	22.28	22.08	23	0.5			
5	16QAM	12	7	22.18	22.39	22.33					
5	16QAM	12	13	21.91	22.10	22.11					
5	16QAM	25	0	22.20	22.15	22.08					
5	16QAM	25	12	22.23	22.13	22.13					
5	16QAM	25	25	21.99	22.17	22.08					
5	16QAM	1	24	21.99	22.29	22.14	22	1.5			
5	16QAM	1	49	21.99	22.08	22.10					
5	16QAM	12	7	21.19	21.90	21.27					
5	16QAM	12	13	21.08	20.88	21.27					
5	16QAM	25	0	21.05	21.05	21.05					
5	16QAM	25	12	21.00	21.15	21.23					
5	256QAM	1	0	19.00	19.15	19.23	20	3.5			
5	256QAM	1	12	19.11	19.32	19.10					
5	256QAM	1	24	19.16	19.39	19.18					
5	256QAM	12	0	21.12	21.12	21.12					
5	256QAM	12	7	21.04	20.84	21.28					
5	256QAM	12	13	20.91	20.91	20.91					
5	256QAM	25	0	19.13	19.12	19.83	20	3.5			
5	256QAM	25	12	19.13	19.12	19.83					
5	256QAM	25	25	19.13	19.12	19.83					
5	256QAM	25	25	19.13	19.12	19.83					
5	256QAM	25	25	19.13	19.12	19.83					
5	256QAM	25	25	19.13	19.12	19.83					
Channel											
Frequency (MHz)											
3	QPSK	1	0	22.22	22.26	22.73	23.5	0			
3	QPSK	1	8	21.94	23.02	22.45					
3	QPSK	1	16	21.81	23.11	22.74					
3	QPSK	8	0	22.81	22.65	22.82					
3	QPSK	8	4	22.60	22.57	22.80	23.5	0			
3	QPSK	8	12	22.72	22.79	22.82					
3	QPSK	16	0	22.81	22.74	22.83					
3	QPSK	16	0	22.66	22.66	22.73					
3	16QAM	1	8	22.41	22.69	22.71	23.5	0			
3	16QAM	1	16	22.45	22.42	22.72					
3	16QAM	1	24	22.45	22.42	22.72	23	0.5			
3	16QAM	8	0	22.02	22.16	22.30					
3	16QAM	8	4	22.14	22.09	22.28					
3	16QAM	8	12	21.91	22.11	22.30					
3	16QAM	16	0	22.12	22.12	22.12					
3	16QAM	16	0	22.28	22.15	22.21					
3	16QAM	1	8	22.08	22.11	22.05	22	1.5			
3	16QAM	1	16	22.09	22.12	22.05					
3	16QAM	8	0	21.07	21.29	22.21					
3	16QAM	8	4	21.29	20.95	21.30					
3	16QAM	16	0	21.17	21.20	21.17					
3	16QAM	16	0	21.08	21.08	21.10					
3	256QAM	1	0	19.99	19.16	19.21	20	3.5			
3	256QAM	1	8	19.88	19.27	19.27					
3	256QAM	1	16	19.18	19.28	19.11					
3	256QAM	8	0	19.05	19.31	19.18					
3	256QAM	8	4	19.02	19.41	19.18					
3	256QAM	8	12	18.95	19.30	19.18					
3	256QAM	16	0	19.06	19.11	19.13	20	3.5			
3	256QAM	16	0	19.06	19.11	19.13					
3	256QAM	16	0	19.06	19.11	19.13					
3	256QAM	16	0	19.06	19.11	19.13					
3	256QAM	16	0	19.06	19.11	19.13					
3	256QAM	16	0	19.06	19.11	19.13					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	22.00	22.08	22.73	23.5	0			
1.4	QPSK	1	8	21.98	22.08	22.73					
1.4	QPSK	1	16	21.84	23.14	22.71					
1.4	QPSK	3	0	22.75	22.83	22.81					
1.4	QPSK	3	8	22.63	22.63	22.81	23.5	0			
1.4	QPSK	3	16	22.65	22.86	22.77					
1.4	QPSK	6	0	22.78	22.79	22.77					
1.4	QPSK	6	8	22.71	22.45	22.49					
1.4	16QAM	1	8	22.43	22.82	22.80	23.5	0			
1.4	16QAM	1	16	22.33	22.82	22.78					
1.4	16QAM	1	24	22.16	22.0						

Reduced Power Mode for Main PA DSI5

GSM 850 Amd											
Band		Base Average Power (dBm)			Turn-up Limit		Flare/Average Power (dBm)				
Tx Channel		188	188	201	188		188	188	201		
Frequency (MHz)		854.2	854.4	846.8			854.2	854.4	846.8		
GSM 1 Tx vlat		22.56	23.04	22.56	33.50		24.02	24.04	24.50		
GPRS 1 Tx vlat		23.02	23.04	22.88	33.50		24.02	24.04	23.98		
GPRS 2 Tx vlat		23.61	23.63	23.59	30.80		23.61	23.63	23.59		
GPRS 3 Tx vlat		23.20	23.23	23.16	29.50		23.10	23.07	23.00		
GPRS 4 Tx vlat		23.40	23.47	23.43	27.50		23.40	23.47	23.43		
EDGE 1 Tx vlat		23.61	23.54	23.49	26.50		18.53	18.54	17.50		
EDGE 2 Tx vlat		23.50	23.59	23.86	25.00		17.50	17.82	17.86		
EDGE 3 Tx vlat		23.57	23.62	23.61	23.50		18.51	18.61	18.24		
EDGE 4 Tx vlat		23.58	23.61	23.53	21.50		17.58	17.61	17.53		
GSM 1900 Amd											
Band		Base Average Power (dBm)			Turn-up Limit		Flare/Average Power (dBm)				
Tx Channel		188	188	188.8	188		188	188	188		
Frequency (MHz)		1852.2	1852	1850.8			1852.2	1852	1850.8		
GSM 1 Tx vlat		26.06	26.21	27.04	26.50		18.51	18.54	20.70		
GPRS 1 Tx vlat		25.70	25.72	25.67	25.70		18.53	18.52	20.70		
GPRS 2 Tx vlat		25.04	25.07	24.79	26.70		18.54	18.07	18.70		
GPRS 3 Tx vlat		23.60	23.65	23.53	25.00		18.50	18.59	18.25		
GPRS 4 Tx vlat		22.28	22.28	21.96	23.70		18.28	18.08	18.70		
EDGE 1 Tx vlat		22.52	22.52	23.60	26.00		18.50	18.25	17.50		
EDGE 2 Tx vlat		23.80	23.67	23.32	24.00		17.80	17.67	17.32		
EDGE 3 Tx vlat		23.58	23.45	22.15	23.50		18.10	18.10	17.80		
EDGE 4 Tx vlat		23.27	23.33	23.09	21.50		17.27	17.33	17.09		
WCDMA 8 Amd											
WCDMA 14 Amd											
WCDMA 5 Amd											
Band		Base			Turn-up Limit		Turn-up Limit				
Tx Channel		850	850	850	850		410	410	410		
Frequency (MHz)		1852.4	1852	1847.8			410	410	410		
SCPP Run#1		17.43	17.43	17.76	19.20		17.12	17.12	17.12		
SCPP Run#9		17.89	17.82	17.72	18.20		17.40	17.50	17.48		
SCPP Run#1		18.60	18.21	18.70	18.20		18.59	18.61	18.40		
SCPP Run#1		18.52	18.58	18.78	18.20		18.26	18.47	18.51		
SCPP Run#1		18.23	18.33	18.54	17.70		18.50	18.57	18.22		
SCPP Run#1		18.30	18.52	18.38	17.70		18.58	18.30	18.03		
SCPP Run#1		17.08	17.10	16.70	18.20		18.62	18.64	18.47		
SCPP Run#1		17.14	16.73	17.04	18.20		18.71	18.68	18.70		
SCPP Run#1		18.46	18.53	18.40	17.70		18.17	18.11	18.25		
SCPP Run#1		18.52	18.40	18.42	17.70		18.58	18.21	18.14		
SCPP Run#1		17.07	16.70	16.80	18.20		18.72	18.52	18.50		
SCPP Run#1		14.81	14.56	14.76	16.20		14.51	14.31	14.36		
SCPP Run#1		15.85	15.87	15.73	17.20		15.47	15.84	15.85		
SCPP Run#1		14.69	14.69	15.52	16.20		14.20	14.81	14.65		
SCPP Run#1		15.90	17.09	15.98	18.20		14.60	16.90	16.61		



Band 2 Ant0												
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Mod Ch./F.Ch.	Power Hsp Ch./F.Ch.	Power Hsp Ch./F.Ch.	Turn-up time (sec)	MPR (dB)				
Channel												
Frequency [MHz]												
20	QPSK	1	0	20.03	20.10	20.05	21.2	0				
20	QPSK	1	49	19.98	20.09	20.15						
20	QPSK	1	99	19.97	20.08	20.14						
20	QPSK	50	0	20.01	20.03	19.96	21.2	0				
20	QPSK	50	24	19.99	20.01	19.98						
20	QPSK	100	0	19.91	19.95	19.91						
20	16QAM	1	0	20.00	20.06	20.02	21.2	0				
20	16QAM	1	49	19.94	20.05	20.01						
20	16QAM	50	0	19.90	19.97	19.96						
20	16QAM	50	24	19.89	19.97	19.94	21.2	0				
20	16QAM	100	0	19.90	19.98	19.94						
20	64QAM	1	0	19.96	19.99	20.04	21.2	0				
20	64QAM	1	49	19.95	20.04	19.97						
20	64QAM	50	0	19.92	19.96	19.97						
20	64QAM	50	24	19.89	20.01	19.93	21.2	0				
20	64QAM	100	0	19.90	19.99	19.94						
20	256QAM	1	0	19.88	19.86	19.84	20.5	0.7				
20	256QAM	1	49	19.93	19.82	19.73						
20	256QAM	50	24	19.58	19.70	19.66	20.5	0.7				
20	256QAM	50	50	19.66	19.78	19.73						
20	256QAM	100	0	19.67	19.70	19.67						
Channel												
Frequency [MHz]												
15	QPSK	1	0	19.98	20.10	20.01	21.2	0				
15	QPSK	1	37	19.92	20.00	19.97						
15	QPSK	1	74	19.88	19.99	19.98						
15	QPSK	36	0	19.98	19.94	19.87	21.2	0				
15	QPSK	36	39	19.84	20.10	19.90						
15	QPSK	36	39	19.91	19.88	19.93						
15	QPSK	75	0	19.97	19.96	19.90	21.2	0				
15	16QAM	1	1	19.99	19.94	20.00						
15	16QAM	1	37	19.96	19.97	20.00	21.2	0				
15	16QAM	1	74	19.92	19.99	19.98						
15	16QAM	36	20	19.74	19.95	19.98	21.2	0				
15	16QAM	36	39	19.77	19.82	19.74						
15	16QAM	75	0	19.91	19.89	19.95						
15	64QAM	1	0	19.91	19.89	19.95	21.2	0				
15	64QAM	1	49	19.95	19.90	19.94						
15	64QAM	1	99	19.90	19.97	19.99						
15	64QAM	36	0	19.91	19.85	19.98	21.2	0				
15	64QAM	36	39	19.91	19.87	19.77						
15	64QAM	75	0	19.77	19.76	19.84						
15	256QAM	1	37	19.84	19.70	19.85	20.5	0.7				
15	256QAM	1	74	19.86	19.71	19.84						
15	256QAM	36	20	19.54	19.58	19.63	20.5	0.7				
15	256QAM	36	39	19.56	19.75	19.64						
15	256QAM	75	0	19.43	19.71	19.67						
Channel												
Frequency [MHz]												
10	QPSK	1	0	19.99	20.07	20.05	21.2	0				
10	QPSK	1	25	19.94	20.03	20.02						
10	QPSK	1	49	19.88	19.94	19.92						
10	QPSK	25	13	19.80	20.04	19.83	21.2	0				
10	QPSK	25	13	19.90	19.94	19.92						
10	QPSK	25	13	19.98	19.96	19.96						
10	16QAM	1	0	20.03	19.97	19.96	21.2	0				
10	16QAM	1	25	19.97	20.00	20.01						
10	16QAM	25	0	19.91	19.97	19.90	21.2	0				
10	16QAM	25	12	19.89	19.94	19.88						
10	16QAM	50	0	19.85	19.93	19.73						
10	64QAM	1	0	19.88	19.94	19.99	21.2	0				
10	64QAM	1	49	19.93	19.90	19.98						
10	64QAM	1	99	19.81	19.93	19.95						
10	64QAM	25	0	19.82	19.86	19.88	21.2	0				
10	64QAM	25	12	19.87	19.89	19.75						
10	64QAM	50	25	19.68	19.84	19.74						
10	256QAM	1	25	19.78	19.62	19.70	20.5	0.7				
10	256QAM	1	49	19.81	19.71	19.86						
10	256QAM	25	12	19.58	19.74	19.74						
10	256QAM	25	12	19.60	19.78	19.76	20.5	0.7				
10	256QAM	25	12	19.63	19.69	19.80						
10	256QAM	50	25	19.41	19.70	19.69						
Channel												
Frequency [MHz]												
5	QPSK	1	0	19.99	20.07	20.05	21.2	0				
5	QPSK	1	12	19.96	20.03	20.09						
5	QPSK	1	24	19.93	19.94	20.03						
5	QPSK	8	4	19.83	20.05	19.83	21.2	0				
5	QPSK	8	7	19.82	19.90	19.84						
5	QPSK	15	0	19.80	19.90	19.98						
5	16QAM	1	0	20.07	19.99	20.05	21.2	0				
5	16QAM	1	8	19.95	19.90	19.94						
5	16QAM	1	16	19.84	19.85	19.93						
5	16QAM	8	0	19.78	19.90	19.93	21.2	0				
5	16QAM	8	4	19.73	19.94	19.72						
5	16QAM	15	0	19.76	19.82	19.82						
5	64QAM	1	0	19.87	19.89	20.02	21.2	0				
5	64QAM	1	16	19.88	20.01	19.96						
5	64QAM	1	14	19.78	19.82	19.85						
5	64QAM	8	0	19.89	19.87	19.81	21.2	0				
5	64QAM	8	4	19.82	19.87	19.79						
5	256QAM	1	0	19.94	19.83	19.79						
5	256QAM	1	8	19.81	19.77	19.69	20.5	0.7				
5	256QAM	8	0	19.86	19.77	19.69						
5	256QAM	8	4	19.80	19.75	19.72						
5	256QAM	15	0	19.55	19.68	19.60	20.5	0.7				
5	256QAM	15	0	19.52	19.74	19.71						
5	256QAM	15	0	19.43	19.65	19.63						
Channel												
Frequency [MHz]												
1.4	QPSK	1	0	19.92	20.01	19.98	21.2	0				
1.4	QPSK	1	3	20.03	20.00	20.00						
1.4	QPSK	1	5	19.87	20.00	20.11						
1.4	QPSK	3	0	19.96	19.99	19.94	21.2	0				
1.4	QPSK	3	1	19.85	20.10	19.80						
1.4	16QAM	1	0	19.86	19.99	19.99						
1.4	16QAM	1	0	20.01	19.99	20.03	21.2	0				
1.4	16QAM	1	3	19.97	19.99	19.95						
1.4	16QAM	3	0	19.84	19.95	19.93						
1.4	16QAM	3	0	19.80	19.99	19.93	21.2	0				
1.4	16QAM	3	1	19.77	19.79	19.73						
1.4	16QAM	6	0	19.80	19.82	19.71	21.2	0				
1.4	16QAM	6	0	19.82	19.80	19.67						
1.4	64QAM	1	0	19.87	19.80	19.93						
1.4	64QAM	1	0	19.92	19.82	19.92	21.2	0				
1.4	64QAM	1	3	19.90	19.88	19.84						
1.4	64QAM	3	0	19.79	19.87	19.78						
1.4	64QAM	3	0	19.73	19.85	19.80	21.2	0				
1.4	64QAM	6	0	19.87	19.79	19.74						
1.4	64QAM	6	0	19.87	19.79	19.74						
1.4	64QAM	6	0	19.83	19.71	19.68	20.5	0.7				
1.4	64QAM	6	0	19.87	19.74	19.67						
1.4	64QAM	6	0	19.80	19.68	19.68						
1.4	256QAM	3	0	19.51	19.71	19.65						



Band 12 Ant0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MPR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.59	22.64	22.52	24	0				
10	QPSK	1	25	22.53	22.54	22.43						
10	QPSK	1	49	22.54	22.61	22.43						
10	QPSK	25	0	22.55	22.58	22.49						
10	QPSK	25	12	22.48	22.49	22.46	24	0				
10	QPSK	25	25	22.47	22.59	22.41						
10	QPSK	50	0	22.47	22.54	22.44						
10	16QAM	1	0	22.45	22.49	22.46						
10	16QAM	1	25	22.40	22.42	22.33	24	0				
10	16QAM	1	49	22.38	22.42	22.36						
10	16QAM	25	0	21.82	21.89	21.82						
10	16QAM	25	12	21.86	21.75	21.71						
10	16QAM	25	25	21.73	21.81	21.76	23.5	0.5				
10	16QAM	50	0	21.76	21.83	21.73						
10	64QAM	1	0	21.85	21.90	21.87						
10	64QAM	1	25	21.82	21.84	21.78						
10	64QAM	1	49	21.83	21.86	21.80	22.5	1.5				
10	64QAM	25	0	20.78	20.80	20.72						
10	64QAM	25	12	20.87	20.72	20.89						
10	64QAM	25	25	20.89	20.75	20.86						
10	256QAM	1	0	18.60	18.69	18.62	20.5	3.5				
10	256QAM	1	25	18.73	18.83	18.77						
10	256QAM	1	49	18.73	18.83	18.78						
10	256QAM	25	0	18.60	18.82	18.77						
10	256QAM	25	12	18.70	18.74	18.70	20.5	3.5				
10	256QAM	25	25	18.65	18.72	18.66						
10	256QAM	50	0	20.95	20.98	20.95						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.52	22.55	22.48	24	0				
5	QPSK	1	12	22.47	22.49	22.38						
5	QPSK	1	24	22.50	22.52	22.38						
5	QPSK	12	0	22.52	22.54	22.46						
5	QPSK	12	7	22.48	22.43	22.41	24	0				
5	QPSK	12	13	22.48	22.42	22.35						
5	QPSK	25	0	22.41	22.49	22.42						
5	16QAM	1	0	22.41	22.45	22.38						
5	16QAM	1	12	22.34	22.39	22.30	24	0				
5	16QAM	1	0	22.32	22.38	22.31						
5	16QAM	12	0	21.76	21.80	21.76						
5	16QAM	12	7	21.78	21.79	21.68						
5	16QAM	12	7	21.80	21.82	21.73	23.5	0.5				
5	16QAM	25	0	21.70	21.78	21.64						
5	64QAM	1	0	21.78	21.86	21.78						
5	64QAM	1	0	21.74	21.80	21.77						
5	64QAM	1	24	21.76	21.79	21.61	22.5	1.5				
5	64QAM	12	0	20.74	20.71	20.62						
5	64QAM	12	13	20.70	20.72	20.63						
5	64QAM	25	0	20.68	20.67	20.63						
5	256QAM	1	0	18.76	18.81	18.73	20.5	3.5				
5	256QAM	1	12	18.69	18.81	18.73						
5	256QAM	1	24	18.68	18.77	18.70						
5	256QAM	12	0	18.73	18.75	18.69						
5	256QAM	12	7	18.61	18.71	18.68	20.5	3.5				
5	256QAM	12	7	18.66	18.64	18.50						
5	256QAM	12	13	18.61	18.64	18.57						
5	256QAM	25	0	20.95	20.98	20.95						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.50	22.55	22.44	24	0				
3	QPSK	1	14	22.51	22.56	22.39						
3	QPSK	1	0	22.47	22.50	22.40						
3	QPSK	8	4	22.43	22.44	22.42						
3	QPSK	8	4	22.44	22.48	22.38	24	0				
3	16QAM	1	0	22.44	22.48	22.38						
3	16QAM	1	0	22.39	22.44	22.43						
3	16QAM	1	8	22.38	22.38	22.25						
3	16QAM	1	14	22.31	22.38	22.23	23.5	0.5				
3	16QAM	8	0	21.79	21.84	21.80						
3	16QAM	8	4	21.89	21.87	21.65						
3	16QAM	8	7	21.72	21.73	21.60						
3	16QAM	15	0	21.87	21.80	21.69	23.5	0.5				
3	64QAM	1	0	21.80	21.84	21.81						
3	64QAM	1	8	21.72	21.82	21.74						
3	64QAM	1	14	21.78	21.81	21.79						
3	64QAM	8	0	20.71	20.77	20.69	22.5	1.5				
3	64QAM	8	4	20.67	20.65	20.65						
3	64QAM	8	7	20.61	20.67	20.61						
3	64QAM	15	0	20.69	20.68	20.66						
3	256QAM	1	0	18.71	18.80	18.75	20.5	3.5				
3	256QAM	1	8	18.65	18.70	18.67						
3	256QAM	1	14	18.69	18.74	18.72						
3	256QAM	8	0	18.76	18.75	18.75						
3	256QAM	8	4	18.65	18.71	18.63	20.5	3.5				
3	256QAM	8	7	18.58	18.64	18.50						
3	256QAM	15	0	18.62	18.75	18.67						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.53	22.55	22.48	24	0				
1.4	QPSK	1	3	22.46	22.49	22.40						
1.4	QPSK	1	5	22.48	22.56	22.39						
1.4	QPSK	3	0	22.45	22.46	22.36						
1.4	QPSK	3	1	22.42	22.42	22.39	24	0				
1.4	QPSK	3	3	22.41	22.41	22.39						
1.4	QPSK	6	0	22.43	22.47	22.37						
1.4	16QAM	1	0	22.42	22.41	22.39						
1.4	16QAM	1	3	22.33	22.35	22.23	24	0				
1.4	16QAM	1	6	22.27	22.38	22.26						
1.4	16QAM	3	0	22.43	22.43	22.36						
1.4	16QAM	3	1	22.38	22.38	22.27						
1.4	16QAM	3	3	22.31	22.39	22.29	23.5	0.5				
1.4	16QAM	6	0	21.72	21.76	21.69						
1.4	64QAM	1	0	21.79	21.84	21.84						
1.4	64QAM	1	3	21.72	21.77	21.69						
1.4	64QAM	1	5	21.77	21.82	21.77	23.5	0.5				
1.4	64QAM	3	0	21.80	21.84	21.82						
1.4	64QAM	3	1	21.75	21.77	21.70						
1.4	64QAM	3	3	21.78	21.81	21.81						
1.4	64QAM	6	0	20.62	20.69	20.62	22.5	1.5				
1.4	256QAM	1	0	18.72	18.86	18.78						
1.4	256QAM	1	3	18.71	18.70	18.72						
1.4	256QAM	1	5	18.71	18.73	18.76						
1.4	256QAM	3	0	18.77	18.73	18.69	20.5	3.5				
1.4	256QAM	3	1	18.67	18.71	18.67						
1.4	256QAM	3	3	18.59	18.66	18.56						
1.4	256QAM	6	0	18.65	18.74	18.68						

Band 13 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.76	22.76	22.76	23.4	0	
10	QPSK	1	25	22.71	22.71	22.71			
10	QPSK	1	49	22.68	22.68	22.68			
10	QPSK	25	0	22.71	22.71	22.71			
10	QPSK	25	12	22.64	22.64	22.64	23.4	0	
10	QPSK	25	25	22.62	22.62	22.62			
10	QPSK	50	0	22.63	22.63	22.63			
10	16QAM	1	0	22.59	22.59	22.59			
10	16QAM	1	25	22.48	22.48	22.48	23.4		
10	16QAM	1	49	22.53	22.53	22.53	23.4	0	
10	16QAM	25	0	22.58	22.58	22.58			
10	16QAM	25	12	22.51	22.51	22.51			
10	16QAM	25	25	22.45	22.45	22.45			
10	16QAM	50	0	22.28	22.28	22.28	23.4	0	
10	16QAM	50	25	22.11	22.11	22.11			
10	16QAM	1	26	22.38	22.38	22.38			
10	16QAM	1	49	22.53	22.53	22.53			
10	16QAM	25	12	22.51	22.51	22.51	22.5	0.9	
10	16QAM	25	25	22.30	22.30	22.30			
10	16QAM	50	0	22.34	22.34	22.34			
10	16QAM	50	25	22.11	22.11	22.11			
10	25QAM	1	0	19.11	19.11	19.11	20.5	2.9	
10	25QAM	1	25	19.20	19.20	19.20			
10	25QAM	1	49	19.31	19.31	19.31			
10	25QAM	25	0	19.56	19.56	19.56			
10	25QAM	25	12	19.51	19.51	19.51	20.5	2.9	
10	25QAM	25	25	19.42	19.42	19.42			
10	25QAM	50	0	19.44	19.44	19.44			
10	25QAM	50	25	19.25	19.25	19.25			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.68	22.70	22.64	23.4	0	
5	QPSK	1	12	22.67	22.61	22.62			
5	QPSK	1	24	22.60	22.63	22.60			
5	QPSK	12	8	22.59	22.57	22.55			
5	QPSK	12	7	22.67	22.61	22.62	23.4	0	
5	QPSK	12	23	22.55	22.55	22.55			
5	QPSK	25	0	22.52	22.59	22.55			
5	16QAM	1	8	22.43	22.48	22.43			
5	16QAM	1	24	22.46	22.48	22.46	23.4	0	
5	16QAM	1	49	22.48	22.48	22.48			
5	16QAM	12	0	22.18	22.25	22.16			
5	16QAM	12	23	22.17	22.43	22.32			
5	16QAM	12	13	22.31	22.41	22.37	23.4	0	
5	16QAM	25	0	22.20	22.23	22.21			
5	16QAM	25	11	22.10	22.35	22.16			
5	16QAM	1	12	22.26	22.38	22.27			
5	16QAM	1	24	22.41	22.47	22.38	22.5	0.9	
5	16QAM	12	7	21.30	21.31	21.27			
5	16QAM	12	7	21.30	21.31	21.27			
5	16QAM	12	13	21.16	21.21	21.16			
5	25QAM	1	0	19.12	19.18	19.12	20.5	2.9	
5	25QAM	1	0	18.99	19.05	19.01			
5	25QAM	1	12	19.14	19.16	19.10			
5	25QAM	1	24	19.42	19.46	19.43			
5	25QAM	12	12	19.39	19.48	19.45	20.5	2.9	
5	25QAM	12	7	19.35	19.41	19.39			
5	25QAM	12	13	19.41	19.45	19.41			
5	25QAM	25	0	19.25	19.35	19.27			



Band 25 Ant0												
BM (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Int. (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
1850 1860 1870												
20	QPSK	1	0	20.13	20.21	20.15			21.2	0		
20	QPSK	1	49	20.11	20.19	20.13						
20	QPSK	1	99	20.06	20.15	20.17						
20	QPSK	50	0	20.07	20.15	20.08						
20	QPSK	50	24	19.99	20.11	20.01			21.2	0		
20	QPSK	50	50	20.04	20.06	19.98						
20	QPSK	100	0	20.03	20.08	20.02						
20	16QAM	1	0	20.11	20.08	20.10						
20	16QAM	1	49	20.03	20.15	20.15			21.2	0		
20	16QAM	1	99	19.96	20.09	20.06						
20	16QAM	50	0	19.97	20.09	19.99						
20	16QAM	50	24	19.87	20.18	19.99						
20	16QAM	50	50	20.01	19.96	19.91			21.2	0		
20	16QAM	100	0	19.92	20.00	19.93						
20	16QAM	1	0	20.09	20.10	20.09						
20	8QAM	1	49	20.04	20.10	20.11			21.2	0		
20	8QAM	1	99	19.94	19.87	19.65						
20	8QAM	50	0	20.04	20.02	20.03						
20	8QAM	50	24	19.91	20.16	19.93						
20	8QAM	50	50	20.01	20.04	19.95			21.2	0		
20	8QAM	100	0	19.95	20.02	19.93						
20	8QAM	1	0	19.95	19.97	19.94						
20	256QAM	1	99	19.94	19.87	19.65			20	1.2		
20	256QAM	1	74	19.61	19.83	19.62						
20	256QAM	36	0	19.82	19.85	19.69						
20	256QAM	36	20	19.43	19.95	19.52						
20	256QAM	36	36	19.35	19.81	19.41			20	1.2		
20	256QAM	75	0	19.43	19.82	19.43						
Channel												
26595 26340 26640												
Frequency (MHz)												
1857.5 1860 1907.5												
15	QPSK	1	0	20.10	20.13	20.12			21.2	0		
15	QPSK	1	37	20.06	20.08	20.06						
15	QPSK	1	74	20.02	20.13	20.09						
15	QPSK	36	0	20.03	20.10	19.99						
15	QPSK	36	20	19.95	20.11	19.84			21.2	0		
15	QPSK	36	36	19.99	20.03	19.84						
15	QPSK	75	0	19.96	19.99	20.00						
15	16QAM	1	0	19.99	20.00	20.08						
15	16QAM	1	37	19.95	20.08	20.10			21.2	0		
15	16QAM	1	74	19.95	20.07	20.08						
15	16QAM	36	0	19.87	19.96	19.94						
15	16QAM	36	20	19.74	20.04	19.76						
15	16QAM	36	36	19.84	19.92	19.87			21.2	0		
15	16QAM	75	0	19.78	19.89	19.80						
15	8QAM	1	0	19.98	20.03	19.97						
15	8QAM	1	37	19.94	20.05	19.95			21.2	0		
15	8QAM	1	74	19.90	19.95	19.90						
15	8QAM	36	0	19.96	20.00	19.96						
15	8QAM	36	20	19.81	19.97	19.85						
15	8QAM	36	36	19.99	20.07	19.95			21.2	0		
15	8QAM	75	0	19.90	19.97	19.79						
15	256QAM	1	0	19.83	19.87	19.65						
15	256QAM	1	37	19.51	19.95	19.55			20	1.2		
15	256QAM	1	74	19.61	19.83	19.62						
15	256QAM	36	0	19.82	19.85	19.69						
15	256QAM	36	20	19.43	19.95	19.52						
15	256QAM	36	36	19.35	19.81	19.41			20	1.2		
15	256QAM	75	0	19.43	19.82	19.43						
Channel												
26665 26340 26675												
Frequency (MHz)												
1855 1860 1910												
10	QPSK	1	0	20.06	20.15	20.10			21.2	0		
10	QPSK	1	12	19.98	20.11	20.13						
10	QPSK	1	24	19.98	20.04	20.10						
10	QPSK	12	0	20.02	20.10	20.09						
10	QPSK	12	7	19.88	20.17	19.89			21.2	0		
10	QPSK	12	13	19.93	20.03	19.94						
10	QPSK	25	0	19.14	19.98	19.85						
10	16QAM	1	0	20.01	20.06	19.97						
10	16QAM	1	12	19.95	20.09	20.11			21.2	0		
10	16QAM	1	24	19.95	20.02	19.93						
10	16QAM	12	0	19.84	19.99	19.85						
10	16QAM	12	7	19.82	20.03	19.82						
10	16QAM	12	13	19.97	19.92	19.84			21.2	0		
10	16QAM	25	0	19.84	19.91	19.83						
10	8QAM	1	0	20.00	20.04	19.96						
10	8QAM	1	12	19.91	20.07	20.01			21.2	0		
10	8QAM	1	24	19.85	19.94	20.06						
10	8QAM	12	0	19.96	19.91	19.90						
10	8QAM	12	7	19.83	20.06	19.83						
10	8QAM	12	13	19.97	19.95	19.88			21.2	0		
10	8QAM	25	0	19.84	19.94	19.80						
10	256QAM	1	0	19.82	19.87	19.59						
10	256QAM	1	12	19.57	19.83	19.58						
10	256QAM	1	24	19.60	19.87	19.59			20	1.2		
10	256QAM	12	0	19.54	19.87	19.50						
10	256QAM	12	7	19.41	19.49	19.52						
10	256QAM	12	13	19.39	19.46	19.41						
10	256QAM	25	0	19.45	19.80	19.46			20	1.2		
Channel												
26665 26340 26675												

Band 30 Ant0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-on time (dB)	MPR (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	18.22	18.22	18.22	19.2	0			
10	QPSK	1	25	18.25	18.25	18.25					
10	QPSK	1	49	18.24	18.24	18.24					
10	QPSK	25	0	18.24	18.24	18.24	19.2	0			
10	QPSK	25	12	18.14	18.14	18.14					
10	QPSK	25	25	18.17	18.17	18.17					
10	QPSK	50	0	18.17	18.17	18.17	19.2	0			
10	16QAM	1	25	18.23	18.23	18.23					
10	16QAM	1	49	18.25	18.25	18.25					
10	16QAM	25	0	18.19	18.19	18.19	19.2	0			
10	16QAM	25	12	18.19	18.19	18.19					
10	16QAM	25	25	18.12	18.12	18.12					
10	16QAM	50	0	18.14	18.14	18.14	19.2	0			
10	64QAM	1	25	18.25	18.25	18.25					
10	64QAM	1	49	18.25	18.25	18.25					
10	64QAM	25	0	18.19	18.19	18.19	19.2	0			
10	64QAM	25	12	18.19	18.19	18.19					
10	64QAM	25	25	18.10	18.10	18.10					
10	256QAM	1	0	18.25	18.25	18.25	18	1.2			
10	256QAM	1	25	18.25	18.25	18.25					
10	256QAM	1	49	18.25	18.25	18.25					
10	256QAM	25	0	18.23	18.23	18.23	18	1.2			
10	256QAM	25	12	18.23	18.23	18.23					
10	256QAM	25	25	18.14	18.14	18.14					
10	256QAM	50	0	18.23	18.23	18.23					
10	256QAM	50	0	18.23	18.23	18.23					
10	256QAM	50	0	18.23	18.23	18.23					
Channel											
Frequency (MHz)											
5	QPSK	1	0	18.27	18.19	18.28	19.2	0			
5	QPSK	1	12	18.22	18.22	18.26					
5	QPSK	1	24	18.31	18.22	18.29					
5	QPSK	12	0	18.12	18.18	18.18	19.2	0			
5	QPSK	12	7	18.06	18.07	18.03					
5	QPSK	12	13	18.15	18.13	18.04					
5	QPSK	25	0	18.08	18.08	18.09	19.2	0			
5	16QAM	1	0	18.18	18.08	18.15					
5	16QAM	1	12	18.15	18.19	18.14					
5	16QAM	1	24	18.22	18.27	18.24	19.2	0			
5	16QAM	12	0	18.14	18.12	18.15					
5	16QAM	12	7	18.00	18.04	18.04					
5	16QAM	12	13	18.03	18.01	18.05	19.2	0			
5	16QAM	1	0	18.19	18.29	18.18					
5	16QAM	25	0	18.07	18.11	18.08					
5	64QAM	1	0	18.18	18.20	18.14	19.2	0			
5	64QAM	1	12	18.19	18.29	18.15					
5	64QAM	1	24	18.16	18.21	18.20					
5	64QAM	12	0	18.12	18.08	18.02	19.2	0			
5	64QAM	12	7	18.03	17.97	17.96					
5	64QAM	12	13	17.97	18.03	18.04					
5	64QAM	25	0	18.00	18.01	18.02	18	1.2			
5	256QAM	1	0	18.26	18.23	18.18					
5	256QAM	1	12	18.16	18.21	18.15					
5	256QAM	1	24	18.24	18.27	18.18	18	1.2			
5	256QAM	12	0	18.20	18.26	18.17					
5	256QAM	12	7	18.10	18.19	18.10					
5	256QAM	12	13	18.08	18.15	18.19					
5	256QAM	25	0	18.08	18.17	18.08					
5	256QAM	25	0	18.08	18.17	18.08					

Band 66 Ant0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	18.27	18.44	18.30	19.1	0			
20	QPSK	1	49	18.25	18.34	18.23					
20	QPSK	1	99	18.25	18.36	18.23					
20	QPSK	50	0	18.24	18.25	18.15	19.1	0			
20	QPSK	50	24	18.13	18.22	18.12					
20	QPSK	50	50	18.18	18.17	18.13					
20	QPSK	100	0	18.13	18.22	18.12	19.1	0			
20	16QAM	1	0	18.21	18.21	18.20					
20	16QAM	1	49	18.12	18.20	18.10					
20	16QAM	1	99	18.17	18.32	18.21	19.1	0			
20	16QAM	50	0	18.11	18.18	18.08					
20	16QAM	50	24	18.18	18.12	18.05					
20	16QAM	50	50	18.15	18.15	18.07	19.1	0			
20	16QAM	100	0	18.07	18.10	18.09					
20	64QAM	1	0	18.17	18.24	18.20	19.1	0			
20	64QAM	1	49	18.13	18.18	18.09					
20	64QAM	1	99	18.22	18.30	18.20					
20	64QAM	50	0	18.12	18.19	18.02	19.1	0			
20	64QAM	50	24	18.10	18.11	18.02					
20	64QAM	50	50	18.05	18.08	18.07					
20	64QAM	100	0	18.07	18.10	18.09	19.1	0			
20	256QAM	1	0	18.15	18.24	18.23					
20	256QAM	1	49	18.18	18.22	18.09					
20	256QAM	1	99	18.15	18.23	18.15	19.1	0			
20	256QAM	50	0	18.05	18.08	18.07					
20	256QAM	50	50	18.05	18.08	18.07					
20	256QAM	100	0	18.07	18.10	18.09	19.1	0			
20	256QAM	50	24	18.18	18.14	17.99					
20	256QAM	50	50	18.05	18.13	18.07					
20	256QAM	100	0	17.99	18.02	17.97					
20	256QAM	100	0	17.99	18.02	17.97					
20	256QAM	100	0	17.99	18.02	17.97					
Channel											
Frequency (MHz)											
15	QPSK	1	0	18.21	18.41	18.22	19.1	0			
15	QPSK	1	37	18.19	18.38	18.14					
15	QPSK	1	74	18.14	18.34	18.12					
15	QPSK	36	0	18.14	18.26	18.12	19.1	0			
15	QPSK	36	19	18.10	18.19	17.98					
15	QPSK	36	39	18.05	18.14	18.08					
15	QPSK	75	0	18.09	18.09	18.07	19.1	0			
15	16QAM	1	0	18.18	18.17	18.17					
15	16QAM	1	37	18.05	18.07	17.99					
15	16QAM	1	74	18.15	18.24	18.17	19.1	0			
15	16QAM	36	0	18.07	18.07	17.98					
15	16QAM	36	20	18.14	18.08	17.99					
15	16QAM	36	39	17.95	18.05	17.95	19.1	0			
15	16QAM	75	0	17.98	18.04	18.00					
15	64QAM	1	0	18.07	18.14	18.07	19.1	0			
15	64QAM	1	37	18.01	18.13	18.07					
15	64QAM	1	74	18.09	18.13	18.03					
15	64QAM	36	0	18.05	18.04	17.94	19.1	0			
15	64QAM	36	20	18.04	18.06	17.95					
15	64QAM	36	39	17.95	18.05	17.95					
15	64QAM	75	0	17.98	18.04	18.00	19.1	0			
15	256QAM	1	0	18.05	18.13	18.07					
15	256QAM	1	37	18.11	18.10	17.97					
15	256QAM	1	74	18.05	18.20	18.05	19.1	0			
15	256QAM	36	0	18.01	18.03	17.96					
15	256QAM	36	20	18.11	18.03	17.90					
15	256QAM	36	39	17.98	18.07	17.93	19.1	0			
15	256QAM	75	0	17.98	18.07	17.93					
15	256QAM	75	0	17.98	18.07	17.93					
Channel											
Frequency (MHz)											
10	QPSK	1	0	18.21	18.40	18.22	19.1	0			
10	QPSK	1	25	18.12	18.28	18.18					
10	QPSK	1	49	18.22	18.30	18.15					
10	QPSK	12	0	18.11	18.18	18.18	19.1	0			
10	QPSK	25	12	18.17	18.08	17.99					
10	QPSK	25	25	18.11	18.14	18.09	19.1	0			
10	QPSK	25	37	18.07	18.13	18.03					
10	QPSK	25	49	18.01	18.10	18.01					
10	QPSK	36	0	18.14	18.11	18.08	19.1	0			
10	QPSK	36	19	18.09	18.16	18.07					
10	QPSK	36	39	18.04	18.11	18.01					
10	QPSK	75	0	18.07	18.16	18.07	19.1	0			
10	QPSK	75	0	18.07	18.16	18.07					
10	QPSK	75	0	18.07	18.16	18.07					
10	16QAM	1	0	18.18	18.18	18.17	19.1	0			
10	16QAM	1	25	18.07	18.16	18.07					
10	16QAM	1	49	18.11	18.20	18.17					
10	16QAM	25	0	18.07	18.16	18.08	19.1	0			
10	16QAM	25	12	18.04	18.12	18.03					
10	16QAM	25	25	18.01	18.12	17.98					
10	16QAM	50	0	17.99	18.08	17.96	19.1	0			
10	16QAM	50	12	18.04	18.13	18.03					
10	16QAM	50	25	18.01	18.12	17.98					
10	16QAM	1	0	18.08	18.13	18.01	19.1	0			
10	16QAM	1	49	18.11	18.27	18.17					
10	16QAM	1	99	18.13	18.13	18.03					
10	16QAM	25	12	18.08	18.07	17.92	19.1	0			
10	16QAM	25	25	17.99	17.99	17.92					
10	16QAM	25	37	18.03	18.03	17.92					
10	16QAM	50	0	18.02	18.10	18.00	19.1	0			
10	16QAM	50	12	18.01	18.08	17.96					
10	16QAM	50	25	17.99	17.99	17.92					
10	256QAM	1	0	18.03	18.03	18.00	19.1	0			
10	256QAM	1	25	18.01	18.10	18.01					
10	256QAM	1	49	18.04	18.10	18.01					
10	256QAM	25	0	18.02	18.10	18.00	19.1	0			
10	256QAM	25	12	18.01	18.08	17.96					
10	256QAM	25	25	17.99	17.99	17.92					
10	256QAM	50	0	18.02	18.10	18.00	19.1	0			
10	256QAM	50	12	18.01	18.08	17.96					
10	256QAM	50	25	17.99	17.99	17.92					
10	256QAM	1	0	18.03	18.10	18.00	19.1	0			
10	256QAM	1	25	18.01	18.10	18.01					
10	256QAM	1	49	18.04	18.10	18.01					
10	256QAM	25	0	18.02	18.10	18.00	19.1	0			
10	256QAM	25	12	18.01	18.08	17.96					
10	256QAM	25	25	17.99	17.99	17.92					
10	256QAM	50	0	18.02	18.10	18.00	19.1	0			
10	256QAM	50	12	18.01	18.08	17.96					
10	256QAM	50	25	17.99	17.99	17.92					
10	256QAM	1	0	18.03	18.10	18.00	19.1	0			
10	256QAM	1	25	18.01	18.10	18.01					
10	256QAM	1	49	18.04	18.10	18.01					
10	256QAM	25	0	18.02	18.10	18.00	19.1	0			
10	256QAM	25	12	18.01	18.08	17.96					
10	256QAM	25	25	17.99	17.99	17.92					
10	256QAM	50	0	18.02	18.10	18.00	19.1	0			
10	256QAM	50	12	18.01	18.08	17.96					
10	256QAM	50	25	17.99	17.99	17.92					
10	256QAM	1	0	18.03	18.10	18.00	19.1	0			
10	256QAM	1	25	18.01	18.10	18.01					
10	256QAM	1	49	18.04	18.10	18.01					
10	256QAM	25	0	18.02	18.10	18.00	19.1	0			
10	256QAM	25	12	18.01	18.08	17.96					
10	256QAM	25	25	17.99	17.99	17.92					
10	256QAM	50	0	18.02	18.10	18.00	19.1	0			
10	256QAM	50	12	18.01	18.08	17.96					
10	256QAM	50	25	17.99	17.99	17.92					
10	256QAM	1	0	18.03	18.10	18.00	19.1	0			
10	256QAM	1	25	18.01	18.10	18.01					
10	256QAM	1	49	18.04	18.10	18.01					
10	256QAM	25	0	18.02	18.10	18.00	19.1	0			
10	256QAM	25	12	18.01	18.08	17.96					
10	256QAM	25	25	17.99	17.99	17.92					
10	256QAM	50	0	18.02	18.10	18.00	19.1	0			
10	256QAM	50	12	18.01	18.08	17.96					
10	256QAM	50	25	17.99	17.99	17.92					
10	256QAM	1	0	18.03	18.10	18.00	19.1	0			
10	256QAM	1	25	18.01	18.10	18.01					
10	256QAM	1	49	18.04	18.10	18.01					
10	256QAM	25	0	18.02	18.10	18.00	19.1	0			
10	256QAM	25	12	18.01	18.08	17.96					
10	256QAM	25	25	17.99	17.99	17.92					
10	256QAM	50	0	18.02	18.10	18.00	19.1	0			
10	256QAM	50	12	18.01	18.08	17.96					
10	256QAM	50	25	17.99	17.99	17.92					
10	256QAM	1	0	18.03	18.10	18.00	19.1	0			
10	256QAM	1	25	18.01	18.10	18.01					
10	256QAM	1	49	18.04	18.10	18.01					
10	256QAM	25	0	18.02	18.10	18.00	19.1	0			
10	256QAM	25	12	18.01	18.08	17.96					
10	256QAM	25	25	17.99	17.99	17.92					
10	256QAM	50	0	18.02	18.10	18.00	19.1	0			
10	256QAM	50	12	18.01	18.08	17.96					
10	256QAM	50	25	17.99	17.99	17.92					
10	256QAM	1	0	18.03	18.10	18.00	19.1	0			
10	256QAM	1	25	18.01	18.10	18.01					
10	256QAM	1	49	18.04	18.10	18.01					
10	256QAM	25	0	18.02	18.10	18.00	19.1	0			
10	256QAM	25	12	18.01	18.08	17.96					
10	256QAM	25	25	17.99	17.99	17.92					
10	256QAM	50	0	18.02	18.10	18.00	19.1				

Band 38 Ant0									
RF [MHz]	Modulation	RB Size	RB Offset	Power / Ch [mW]	Power / Ch [mW]	Power / Ch [mW]	Time-up limit (dB)	MPE (dB)	
Channel				37850	36900	36150			
Frequency (MHz)				19.17	19.43	19.13			
20	QPSK	1	0	19.17	19.43	19.13			
20	QPSK	1	49	19.26	19.30	19.30			20.6
20	QPSK	1	98	19.34	19.35	19.34			
20	QPSK	50	0	19.31	19.31	19.31			
20	QPSK	50	24	19.30	19.32	19.24			
20	QPSK	100	0	19.30	19.30	19.30			0
20	QPSK	100	0	19.15	19.32	19.14			
20	16QAM	1	0	19.26	19.26	19.22			
20	16QAM	1	49	19.32	19.32	19.17			20.6
20	16QAM	1	98	19.18	19.23	19.29			
20	16QAM	50	0	18.92	18.93	18.92			
20	16QAM	50	24	18.96	18.96	18.86			20
20	16QAM	50	50	18.73	18.92	18.86			
20	16QAM	50	74	18.76	18.92	18.86			
20	16QAM	100	0	18.76	18.85	18.72			
20	16QAM	100	0	18.76	18.85	18.72			
20	16QAM	100	0	18.99	18.86	18.61			20
20	16QAM	100	0	18.99	18.86	18.76			
20	16QAM	50	50	17.84	17.87	17.83			
20	16QAM	50	24	17.73	17.86	17.74			19
20	16QAM	50	74	17.81	17.84	17.73			
20	16QAM	100	0	17.71	17.82	17.72			
20	256QAM	1	0	15.92	15.93	15.91			
20	256QAM	1	49	15.91	15.91	15.79			17
20	256QAM	1	98	15.87	15.91	15.76			
20	256QAM	50	0	15.78	15.87	15.77			
20	256QAM	50	24	15.76	15.91	15.76			17
20	256QAM	50	50	15.71	15.78	15.71			
20	256QAM	100	0	15.76	15.78	15.74			
Channel				37850	36900	36150			
Frequency (MHz)				19.17	19.43	19.13			
15	QPSK	1	0	19.17	19.43	19.13			
15	QPSK	1	37	19.12	19.30	19.24			20.6
15	QPSK	1	74	19.10	19.32	19.21			
15	QPSK	36	0	19.10	19.31	19.28			
15	QPSK	36	20	18.98	19.22	19.18			20.6
15	QPSK	36	56	18.98	19.22	19.17			
15	QPSK	75	0	19.13	19.10	19.10			
15	16QAM	1	0	19.14	19.17	19.18			
15	16QAM	1	37	19.13	19.13	19.04			20.6
15	16QAM	1	74	19.16	19.20	19.25			
15	16QAM	36	0	18.80	19.10	19.82			
15	16QAM	36	20	18.81	18.86	18.68			20
15	16QAM	36	56	18.61	18.67	18.75			
15	16QAM	75	0	18.69	18.70	18.73			
15	16QAM	1	37	18.55	18.54	18.52			20
15	16QAM	1	74	18.53	18.53	18.53			
15	16QAM	36	0	17.79	17.84	17.87			19
15	16QAM	36	20	17.77	17.82	17.77			
15	16QAM	36	56	17.59	17.81	17.65			
15	16QAM	75	0	17.86	17.79	17.66			
15	16QAM	1	0	15.79	15.86	15.62			
15	256QAM	1	49	15.75	15.86	15.73			17
15	256QAM	1	98	15.80	15.87	15.68			
15	256QAM	50	0	15.72	15.79	15.63			
15	256QAM	50	24	15.72	15.79	15.73			17
15	256QAM	50	50	15.64	15.66	15.65			
15	256QAM	100	0	15.68	15.72	15.62			
Channel				37850	36900	36150			
Frequency (MHz)				19.17	19.43	19.13			
5	QPSK	1	0	19.17	19.43	19.13			
5	QPSK	1	24	19.23	19.30	19.21			20.6
5	QPSK	1	48	19.13	19.26	19.16			
5	QPSK	12	0	19.14	19.23	19.28			
5	QPSK	25	12	19.02	19.19	19.15			20.6
5	QPSK	25	25	19.03	19.19	19.13			
5	QPSK	50	0	19.05	19.20	19.04			
5	16QAM	1	0	19.14	19.17	19.18			
5	16QAM	1	24	19.18	19.18	19.13			20.6
5	16QAM	1	48	19.07	19.17	19.17			
5	16QAM	25	0	18.80	19.16	18.89			
5	16QAM	25	12	18.82	18.96	18.87			20
5	16QAM	25	25	18.69	18.86	18.77			
5	16QAM	50	0	18.73	18.73	18.66			
5	16QAM	1	0	16.71	16.75	16.78			20
5	16QAM	1	25	16.65	16.86	16.80			
5	16QAM	1	48	16.67	16.78	16.70			
5	16QAM	25	12	17.72	17.81	17.69			
5	16QAM	25	12	17.68	17.75	17.66			19
5	16QAM	25	25	17.77	17.85	17.74			
5	16QAM	50	0	17.64	17.74	17.67			
5	256QAM	1	0	15.79	15.86	15.61			
5	256QAM	1	24	15.75	15.86	15.73			17
5	256QAM	1	48	15.80	15.87	15.68			
5	256QAM	12	0	15.72	15.79	15.63			
5	256QAM	25	12	15.73	15.79	15.68			17
5	256QAM	25	25	15.59	15.74	15.65			
5	256QAM	50	0	15.68	15.72	15.67			
Channel				37775	36800	36225			
Frequency (MHz)				19.17	19.43	19.13			
5	QPSK	1	12	19.23	19.30	19.21			20.6
5	QPSK	1	24	19.13	19.26	19.14			
5	QPSK	12	0	19.14	19.23	19.28			
5	QPSK	12	7	18.97	19.23	19.22			20.6
5	QPSK	12	14	19.03	19.19	19.18			
5	QPSK	24	0	19.06	19.22	19.06			
5	16QAM	1	0	19.19	19.18	19.16			
5	16QAM	1	12	19.18	19.18	19.07			20.6
5	16QAM	1	24	19.06	19.20	19.22			
5	16QAM	12	0	18.83	18.82	18.88			
5	16QAM	12	7	18.82	18.95	18.79			20
5	16QAM	12	14	18.63	18.83	18.75			
5	16QAM	24	0	18.73	18.73	18.66			
5	16QAM	1	0	16.55	16.70	16.76			20
5	16QAM	1	12	16.57	16.62	16.74			
5	16QAM	1	24	16.57	16.71	17.61			
5	16QAM	12	7	17.75	17.81	17.66			19
5	16QAM	12	14	17.77	17.85	17.74			
5	16QAM	24	0	17.65	17.74	17.67			
5	256QAM	1	0	15.80	15.86	15.79			
5	256QAM	1	12	15.75	15.86	15.74			17
5	256QAM	1	24	15.76	15.85	15.72			
5	256QAM	12	7	15.70	15.75	15.67			
5	256QAM	12	14	15.61	15.73	15.62			17
5	256QAM	24	0	15.63	15.72	15.67			

Band 41 Ant0										
BNr (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power Line (Ch./Freq)	Power (W)	Power Line (Ch./Freq)	Power (W)	Power Line (Ch./Freq)	Power (W)
Channel										Time-up limit (min)
Frequency (MHz)										MPE (dB)
20	QPSK	1	0	19.20	19.21	19.21	19.21	19.20	19.21	20.6
20	QPSK	1	49	19.26	19.31	19.31	19.31	19.30	19.31	
20	QPSK	1	98	19.31	19.34	19.34	19.32	19.32	19.32	
20	QPSK	50	19	19.35	19.36	19.36	19.34	19.34	19.36	
20	QPSK	50	24	19.12	19.19	19.41	19.37	19.37	19.00	
20	QPSK	100	1	19.20	19.21	19.21	19.21	19.20	19.21	20.6
20	16QAM	1	0	19.20	19.31	19.34	19.33	19.32	19.31	
20	16QAM	1	49	19.26	19.31	19.31	19.31	19.30	19.31	
20	16QAM	1	98	19.26	19.32	19.32	19.30	19.31	19.31	
20	16QAM	50	0	19.17	19.28	19.41	19.30	19.30	19.04	
20	16QAM	50	24	19.21	19.22	19.30	19.24	19.23	19.08	
20	16QAM	50	19	19.18	19.20	19.33	19.23	19.03		
20	16QAM	100	0	19.14	19.30	19.29	19.27	19.04		
20	16QAM	100	1	19.15	19.34	19.33	19.22	19.04		
20	64QAM	1	0	19.18	19.20	19.33	19.23	19.03		
20	64QAM	1	49	19.04	19.17	19.22	19.16	18.96		
20	64QAM	1	98	19.04	19.17	19.22	19.14	18.97		
20	64QAM	50	0	19.18	19.27	19.34	19.22	19.21		
20	64QAM	50	24	19.19	19.27	19.42	19.23	19.05		
20	64QAM	50	19	19.00	19.22	19.35	19.21	19.03		
20	64QAM	100	0	19.19	19.23	19.35	19.21	19.03		
20	256QAM	1	0	19.22	19.28	19.33	19.24	19.00		
20	256QAM	1	49	19.21	19.31	19.30	19.24	19.04		
20	256QAM	1	98	19.03	19.16	19.20	19.04	18.94		
20	256QAM	50	0	19.18	19.27	19.37	19.22	19.05		
20	256QAM	50	24	19.26	19.35	19.35	19.20	19.04		
20	256QAM	50	19	19.03	19.11	19.12	19.01	18.90		
20	256QAM	100	0	19.18	19.23	19.35	19.21	19.00		
Channel										Time-up limit (min)
Frequency (MHz)										MPE (dB)
15	QPSK	1	0	19.20	19.21	19.21	19.21	19.20	19.21	20.6
15	QPSK	1	37	19.15	19.21	19.32	19.23	19.09		
15	QPSK	1	74	19.08	19.31	19.34	19.34	19.09		
15	QPSK	50	19	19.11	19.26	19.30	19.26	19.00		
15	QPSK	50	24	19.11	19.06	19.35	19.27	19.01		
15	QPSK	50	36	19.12	19.14	19.35	19.27	19.01		
15	QPSK	75	0	19.12	19.16	19.28	19.20	19.05		
15	16QAM	1	0	19.21	19.19	19.27	19.23	19.07		
15	16QAM	1	37	19.15	19.21	19.32	19.23	19.09		
15	16QAM	1	74	19.08	19.31	19.34	19.34	19.09		
15	16QAM	50	19	19.11	19.26	19.30	19.26	19.00		
15	16QAM	50	24	19.11	19.06	19.35	19.27	19.01		
15	16QAM	50	36	19.12	19.14	19.35	19.27	19.01		
15	16QAM	75	0	19.12	19.16	19.28	19.20	19.05		
15	64QAM	1	0	19.18	19.20	19.33	19.23	19.03		
15	64QAM	1	37	19.08	19.13	19.15	19.04	18.84		
15	64QAM	1	74	19.00	19.02	19.02	18.91	18.71		
15	64QAM	50	19	19.10	19.20	19.27	19.10	19.17		
15	64QAM	50	24	19.08	19.17	19.30	19.19	19.07		
15	64QAM	50	36	19.12	19.13	19.29	19.19	19.07		
15	64QAM	75	0	19.16	19.14	19.28	19.11	18.83		
15	256QAM	1	0	19.12	19.24	19.26	19.14	18.88		
15	256QAM	1	37	19.09	19.01	19.13	19.02	18.80		
15	256QAM	1	74	19.06	19.02	19.06	19.00	18.80		
15	256QAM	50	19	19.10	19.11	19.25	19.10	19.16		
15	256QAM	50	24	19.07	18.97	19.05	18.98	19.06		
15	256QAM	50	36	19.06	19.06	19.06	19.02	19.10		
Channel										Time-up limit (min)
Frequency (MHz)										MPE (dB)
5	QPSK	1	0	19.18	19.22	19.24	19.24	19.18	19.06	20.6
5	QPSK	1	25	19.21	19.30	19.34	19.26	19.12	19.04	21
5	QPSK	1	49	19.08	19.31	19.31	19.28	18.88		
5	QPSK	1	74	19.05	19.35	19.35	19.24	18.88		
5	QPSK	12	0	19.01	19.14	19.37	19.28	19.07		
5	QPSK	12	12	19.03	19.12	19.37	19.28	19.07		
5	QPSK	50	0	19.18	19.12	19.27	19.11	19.05		
5	16QAM	1	0	19.16	19.22	19.26	19.26	19.19		
5	16QAM	1	25	19.22	19.24	19.34	19.24	19.11		
5	16QAM	1	49	19.18	19.11	19.22	19.23	19.25		
5	16QAM	25	0	19.13	19.20	19.36	19.29	19.01		
5	16QAM	25	12	19.14	19.14	19.31	19.24	19.04		
5	16QAM	25	25	19.14	19.18	19.30	19.19	19.01		
5	16QAM	50	0	19.12	19.13	19.29	19.20	19.01		
5	64QAM	1	0	19.06	19.07	19.26	19.20	18.96		
5	64QAM	1	25	19.02	19.08	19.17	19.12	18.91		
5	64QAM	1	49	19.05	19.05	19.16	19.04	18.87		
5	64QAM	25	0	19.13	19.25	19.29	19.13	19.11		
5	64QAM	25	12	19.08	19.22	19.40	19.21	19.04		
5	64QAM	25	25	19.09	19.18	19.28	19.09	19.05		
5	64QAM	50	0	19.14	19.21	19.19	19.10	18.88		
5	256QAM	1	0	19.20	19.23	19.36	19.30	19.06		
5	256QAM	1	25	19.02	19.15	19.20	19.04	18.97		
5	256QAM	1	49	18.87	19.13	19.15	19.05	18.88		
5	256QAM	25	0	19.12	19.12	19.25	19.08	19.01		
5	256QAM	25	12	19.12	19.13	19.21	19.10	19.15		
5	256QAM	25	25	19.05	19.06	19.06	18.95	19.06		
5	256QAM	50	0	19.12	19.16	19.20	19.08	19.05		
Channel										Time-up limit (min)
Frequency (MHz)										MPE (dB)
5	QPSK	1	12	19.21	19.29	19.28	19.31	19.09	21	0
5	QPSK	1	24	19.04	19.23	19.36	19.30	19.06		
5	QPSK	12	0	19.04	19.29	19.34	19.23	19.06		
5	QPSK	12	12	19.04	19.29	19.34	19.23	19.06		
5	QPSK	25	0	19.08	19.11	19.35	19.30	19.03		
5	16QAM	1	0	19.19	19.26	19.32	19.30	19.24		
5	16QAM	1	12	19.13	19.11	19.13	19.11	19.14		
5	16QAM	1	24	19.14	19.20	19.18	19.28	19.23		
5	16QAM	12	0	19.11	19.24	19.36	19.23	19.06		
5	16QAM	12	12	19.11	19.24	19.36	19.23	19.06		
5	16QAM	12	24	19.11	19.14	19.29	19.14	19.04		
5	16QAM	25	0	19.11	19.14	19.27	19.11	19.05		
5	64QAM	1	0	19.08	19.04	19.23	19.10	18.99		
5	64QAM	1	12	19.05	19.03	19.17	19.03	18.91		
5	64QAM	1	24	19.03	19.13	19.22	19.04	18.93		
5	64QAM	12	0	19.12	19.16	19.31	19.11	19.14		
5	64QAM	12	7	19.08	19.23	19.31	19.17	19.04		
5	64QAM	12	12	19.11	19.09	19.29	19.20	19.05		
5	64QAM	25	0	19.11	19.18	19.27	19.17	18.96		
5	256QAM	1	0	19.16	19.26	19.22	19.10	18.88		
5	256QAM	1	12	19.02	19.15	19.22	19.04	18.91		
5	256QAM	1	24	18.87	19.00	19.07	19.14	18.83		
5	256QAM	12	0	19.02	19.17	19.18	19.08	18.95		
5	256QAM	12	7	19.21	19.11	19.28	19.10	19.21		
5	256QAM	12	13	19.00	19.09	19.04	19.02	19.07		
5	256QAM	12	24	19.13	19.13	19.12	19.14	19.14		

Band 41 HPUE Ant0											
RF Mhz	Modulation	RIS size	RF Offset	Power (dBm) (C/F)	Power (dBm) (C/F)	Power (dBm) (C/F)	Power (dBm) (C/F)	Power (dBm) (C/F)	Power (dBm) (C/F)	Turn-up limit (dBm)	MPE (dB)
Channel											
Frequency (MHz)											
20	QPSK	0	0	28.84	28.82	21.22	20.92	21.90	20.63		
20	QPSK	1	49	29.77	28.85	22.54	20.86	20.86	20.63	22.2	0
20	QPSK	1	49	29.77	28.86	20.87	20.86	20.86	20.58		
20	QPSK	50	0	29.77	28.86	20.87	20.86	20.86	20.58		
20	QPSK	50	24	28.83	28.70	20.57	20.57	20.57	20.55	22.2	0
20	QPSK	50	24	28.83	28.70	20.57	20.57	20.57	20.55		
20	QPSK	100	0	29.69	29.70	20.58	20.58	20.58	20.55		
20	16QAM	1	0	26.78	26.82	20.91	20.88	20.84	20.78		
20	16QAM	1	49	26.78	26.84	20.88	20.88	20.88	20.78	22.2	0
20	16QAM	1	99	27.72	26.88	20.81	20.86	20.86	20.75		
20	16QAM	50	0	26.73	26.74	20.94	20.78	20.48	20.48		
20	16QAM	50	24	26.73	26.77	20.84	20.77	20.77	20.58	22.2	0
20	16QAM	50	24	26.73	26.70	20.79	20.76	20.76	20.49		
20	16QAM	100	0	26.63	26.76	20.79	20.69	20.62	20.52		
20	16QAM	100	0	26.63	26.82	20.79	20.74	20.74	20.52	22.2	0
20	16QAM	100	24	26.68	26.70	20.71	20.65	20.61	20.47		
20	16QAM	100	24	26.68	26.76	20.76	20.70	20.70	20.52		
20	16QAM	100	0	26.68	26.76	20.76	20.70	20.70	20.52		
20	16QAM	100	0	26.68	26.78	20.85	20.69	20.74	20.56		
20	16QAM	50	24	26.74	26.73	20.88	20.78	20.78	20.56	22.2	0
20	16QAM	50	24	26.74	26.71	20.83	20.73	20.73	20.56		
20	16QAM	100	0	26.84	26.73	20.87	20.69	20.57	20.52		
20	25QPSK	1	0	29.78	29.74	20.77	20.70	20.70	20.50		
20	25QPSK	1	49	29.54	29.54	20.78	20.78	20.78	20.55	22.2	0
20	25QPSK	1	99	29.51	29.64	20.71	20.79	20.79	20.56		
20	25QPSK	50	0	29.78	29.78	20.77	20.70	20.70	20.52		
20	25QPSK	50	24	29.78	29.68	20.85	20.81	20.77	20.57	22.2	0
20	25QPSK	50	24	29.62	29.55	20.57	20.59	20.68	20.56		
20	25QPSK	100	0	29.71	29.71	20.77	20.72	20.65	20.52		
Channel											
Frequency (MHz)											
15	QPSK	0	0	29.81	29.74	20.53	20.53	20.53	20.58	Turn-up limit (dBm)	MPE (dB)
15	QPSK	1	37	29.71	29.78	20.85	20.75	20.84	20.64	22	0
15	QPSK	1	74	29.67	29.82	20.86	20.81	20.47	20.47		
15	QPSK	36	0	29.78	29.73	20.74	20.74	20.74	20.49	22.2	0
15	QPSK	36	20	29.58	29.61	20.34	20.79	20.79	20.47		
15	QPSK	36	20	29.58	29.61	20.34	20.79	20.79	20.47		
15	QPSK	75	0	29.64	29.60	20.85	20.65	20.52	20.52		
15	16QAM	1	0	26.68	26.72	20.89	20.78	20.79	20.79	22.2	0
15	16QAM	1	37	26.63	26.55	20.89	20.81	20.47	20.47		
15	16QAM	1	74	26.68	26.84	20.79	20.88	20.62	20.62		
15	16QAM	36	0	26.68	26.84	20.84	20.88	20.36	20.36	22.2	0
15	16QAM	36	20	26.68	26.83	20.73	20.74	20.81	20.81		
15	16QAM	36	39	26.65	26.56	20.69	20.65	20.42	20.42		
15	16QAM	75	0	26.50	26.56	20.72	20.68	20.42	20.42		
15	16QAM	1	37	26.62	26.57	20.88	20.52	20.41	20.41	22.2	0
15	16QAM	1	74	26.63	26.67	20.87	20.87	20.41	20.41		
15	16QAM	36	0	26.53	26.71	20.72	20.58	20.69	20.69		
15	16QAM	36	20	26.71	26.66	20.90	20.69	20.48	20.48	22.2	0
15	16QAM	36	20	26.60	26.81	20.89	20.89	20.48	20.48		
15	16QAM	75	0	26.60	26.89	20.75	20.64	20.53	20.53		
15	25QPSK	1	0	29.74	29.62	20.68	20.64	20.59	20.59		
15	25QPSK	1	37	29.51	29.51	20.63	20.75	20.51	20.51		
15	25QPSK	1	74	29.47	29.56	20.62	20.76	20.42	20.42		
15	25QPSK	36	0	29.74	29.68	20.75	20.72	20.69	20.69	22.2	0
15	25QPSK	36	20	29.64	29.53	20.62	20.61	20.55	20.55		
15	25QPSK	36	20	29.62	29.55	20.62	20.62	20.55	20.55		
Channel											
Frequency (MHz)											
10	QPSK	0	0	29.78	29.79	20.91	20.91	20.49	20.49	Turn-up limit (dBm)	MPE (dB)
10	QPSK	1	25	29.64	29.82	20.83	20.81	20.66	20.66	22	0
10	QPSK	1	49	28.80	28.76	20.91	20.81	20.53	20.53		
10	QPSK	12	0	29.72	29.72	20.89	20.89	20.54	20.54		
10	QPSK	25	12	29.65	29.57	20.88	20.78	20.44	20.44		
10	QPSK	25	12	29.53	29.53	20.72	20.72	20.38	20.38	22.2	0
10	QPSK	50	0	29.59	29.58	20.87	20.66	20.42	20.42		
10	16QAM	1	0	26.69	26.72	20.83	20.84	20.79	20.79	22.2	0
10	16QAM	1	12	26.68	26.53	20.73	20.73	20.48	20.48		
10	16QAM	1	49	26.60	26.58	20.71	20.84	20.87	20.87		
10	16QAM	25	0	26.65	26.63	20.85	20.89	20.44	20.44		
10	16QAM	25	12	26.72	26.87	20.72	20.72	20.48	20.48	22.2	0
10	16QAM	25	25	26.71	26.56	20.68	20.70	20.38	20.38		
10	16QAM	50	0	26.54	26.67	20.87	20.87	20.48	20.48		
10	16QAM	50	0	26.47	26.50	20.81	20.72	20.48	20.48		
10	16QAM	1	25	26.64	26.61	20.61	20.66	20.48	20.48	22.2	0
10	16QAM	1	49	26.44	26.46	20.61	20.63	20.48	20.48		
10	16QAM	25	0	26.53	26.64	20.73	20.64	20.63	20.63		
10	16QAM	25	12	26.71	26.51	20.50	20.62	20.50	20.50	22.2	0
10	16QAM	25	25	26.62	26.56	20.62	20.62	20.48	20.48		
10	16QAM	50	0	26.62	26.64	20.76	20.66	20.51	20.51		
10	25QPSK	1	0	29.66	29.61	20.73	20.57	20.49	20.49		
10	25QPSK	1	25	29.48	29.42	20.69	20.79	20.51	20.51	22.2	0
10	25QPSK	1	49	29.38	29.58	20.59	20.78	20.44	20.44		
10	25QPSK	12	0	29.48	29.48	20.67	20.67	20.40	20.40		
10	25QPSK	25	12	29.74	29.62	20.79	20.79	20.71	20.71	22.2	0
10	25QPSK	25	25	29.64	29.43	20.45	20.45	20.45	20.45		
Channel											
Frequency (MHz)											
5	QPSK	0	0	29.78	29.77	20.93	20.93	20.62	20.62	Turn-up limit (dBm)	MPE (dB)
5	QPSK	1	12	29.71	29.79	20.83	20.75	20.84	20.64	22	0
5	QPSK	1	24	29.67	29.82	20.86	20.81	20.49	20.49		
5	QPSK	12	0	29.74	29.79	20.83	20.84	20.54	20.54		
5	QPSK	12	12	29.65	29.56	20.85	20.83	20.49	20.49	22.2	0
5	QPSK	25	0	29.58	29.72	20.87	20.87	20.46	20.46		
5	QPSK	25	0	29.55	29.58	20.79	20.65	20.50	20.50		
5	16QAM	1	0	26.68	26.79	20.85	20.83	20.74	20.74	22.2	0
5	16QAM	1	12	26.63	26.55	20.87	20.87	20.47	20.47		
5	16QAM	1	24	26.65	26.81	20.78	20.84	20.84	20.84		
5	16QAM	12	0	26.59	26.69	20.87	20.71	20.37	20.37	22.2	0
5	16QAM	12	12	26.73	26.72	20.73	20.73	20.48	20.48		
5	16QAM	12	13	26.65	26.59	20.74	20.74	20.48	20.48		
5	16QAM	25	0	26.54	26.67	20.72	20.72	20.48	20.48		
5	16QAM	25	0	26.46	26.54	20.71	20.70	20.46	20.46		
5	16QAM	1	12	26.51	26.57	20.64	20.67	20.48	20.48	22.2	0
5	16QAM	1	24	26.48	26.48	20.64	20.64	20.47	20.47		
5	16QAM	12	0	26.64	26.67	20.73	20.67	20.63	20.63		
5	16QAM	12	7	26.69	26.64	20.91	20.68	20.45	20.45	22.2	0
5	16QAM	12	13	26.64	26.61	20.89	20.89	20.45	20.45		
5	25QPSK	1	0	29.66	29.61	20.86	20.86	20.47	20.47		
5	25QPSK	1	12	29.48	29.42	20.84	20.84	20.44	20.44	22.2	0
5	25QPSK	1	24	29.43	29.52	20.57	20.66	20.46	20.46		
5	25QPSK	12	0	29.58	29.64	20.72	20.62	20.40	20.40		
5	25QPSK	12	7	29.70	29.58	20.75	20.77	20.59	20.59		
5	25QPSK	12	13	29.51	29.52	20.50	20.56	20.57	20.57	22.2	0
5	25QPSK	12	25	29.63	29.52	20.65	20.65	20.51	20.51		

		GSM 850 Airt					GSM 850 Airt		
CDMA850		Base Average Power (dBm)			Tune-up Limit		Frame Average Power (dBm)		
Tx Channel		188	190	201	190		188	190	201
Frequency (MHz)		824.2	832.4	844.6	(dBm)		824.2	832.4	844.6
GSM 1 Tx watt		21.50	21.50	21.50	21.50		21.50	21.50	21.50
GPRS 1 Tx watt		31.07	31.08	30.95	32.00		22.07	22.08	21.95
GPRS 2 Tx watt		22.72	22.75	22.60	23.00		21.72	21.75	21.60
GPRS 3 Tx watt		24.42	24.51	24.34	27.50		22.76	22.25	22.08
GPRS 4 Tx watt		24.44	24.49	24.37	26.00		21.44	21.49	21.37
EDGE 1 Tx watt		25.00	25.00	25.00	26.00		19.00	19.00	19.00
EDGE 2 Tx watt		23.77	23.67	23.83	25.00		17.77	17.87	17.83
EDGE 3 Tx watt		22.79	22.78	22.80	23.50		18.44	18.50	18.24
EDGE 4 Tx watt		20.37	20.69	20.62	21.50		17.97	17.89	17.82
		GSM 1900 Airt					GSM 1900 Airt		
CDMA1900		Base Average Power (dBm)			Tune-up Limit		Frame Average Power (dBm)		
Tx Channel		1812	1860	1908	1812		1812	1860	1908
Frequency (MHz)		1812.2	1860	1908.8	(dBm)		1812.2	1860	1908.8
GSM 1 Tx watt		26.58	26.58	26.16	27.50		17.38	17.51	17.16
GPRS 1 Tx watt		25.51	26.06	25.24	27.50		17.51	17.46	17.25
GPRS 2 Tx watt		24.36	24.37	24.24	24.00		18.36	18.37	18.24
GPRS 3 Tx watt		21.05	21.75	21.68	22.00		17.20	17.59	17.40
GPRS 4 Tx watt		20.40	20.39	20.21	21.50		17.40	17.39	17.21
EDGE 1 Tx watt		22.58	22.44	22.47	24.00		16.58	16.54	16.47
EDGE 2 Tx watt		22.88	22.65	22.77	24.00		16.88	16.95	16.77
EDGE 3 Tx watt		21.04	21.09	21.57	22.50		17.38	17.45	17.31
EDGE 4 Tx watt		19.47	19.53	19.42	20.50		16.47	16.53	16.42
		WCDMA 8 Airt					WCDMA 8 Airt		
Base		WCDMA 8			Tune-up Limit		WCDMA 8		
Tx Channel		8662	8666	8668	8662		8662	8666	8668
Frequency (MHz)		1822.4	1830	1837.8	(dBm)		1822.4	1830	1837.8
ISPP Run#0		15.76	15.76	15.49	16.80		16.73	16.57	16.51
ISPP Run#0		15.44	15.00	15.47	16.80		16.80	16.50	16.85
ISPP Run#1		14.42	14.62	14.57	15.80		15.96	16.11	15.96
ISPP Run#1		14.27	14.39	14.48	15.80		15.83	15.95	16.00
ISPP Run#1		13.88	14.02	14.23	15.30		15.30	15.61	15.88
ISPP Run#1		13.14	13.22	13.08	15.30		15.02	15.75	15.43
ISPP Run#1		14.89	14.88	14.43	15.80		16.31	16.95	16.94
ISPP Run#1		14.91	14.92	14.71	16.80		16.30	16.31	17.10
ISPP Run#1		14.16	14.28	14.27	15.30		15.57	15.75	15.61
ISPP Run#1		13.86	14.23	14.16	15.30		15.41	15.62	15.65
ISPP Run#1		14.67	14.67	14.47	16.80		16.30	16.80	17.10
ISPP Run#1		12.64	12.24	12.40	13.80		14.14	13.77	14.01
ISPP Run#1		13.48	13.73	13.37	14.80		14.96	15.08	14.96
ISPP Run#1		12.45	12.48	12.85	13.80		13.90	14.00	14.22
ISPP Run#1		14.65	14.75	14.68	16.80		16.10	16.38	16.10
		WCDMA 4 Airt					WCDMA 4 Airt		
Base		WCDMA 4			Tune-up Limit		WCDMA 4		
Tx Channel		4102	4102	4102	4102		4102	4102	4102
Frequency (MHz)		4102	4102	4102	(dBm)		4102	4102	4102
ISPP Run#0		15.76	15.76	15.49	16.80		16.73	16.57	16.51
ISPP Run#0		15.44	15.00	15.47	16.80		16.80	16.50	16.85
ISPP Run#1		14.42	14.62	14.57	15.80		15.96	16.11	15.96
ISPP Run#1		14.27	14.39	14.48	15.80		15.83	15.95	16.00
ISPP Run#1		13.88	14.02	14.23	15.30		15.30	15.61	15.88
ISPP Run#1		13.14	13.22	13.08	15.30		15.02	15.75	15.43
ISPP Run#1		14.89	14.88	14.43	15.80		16.31	16.95	16.94
ISPP Run#1		14.91	14.92	14.71	16.80		16.30	16.31	17.10
ISPP Run#1		14.16	14.28	14.27	15.30		15.57	15.75	15.61
ISPP Run#1		13.86	14.23	14.16	15.30		15.41	15.62	15.65
ISPP Run#1		14.67	14.67	14.47	16.80		16.30	16.80	17.10
ISPP Run#1		12.64	12.24	12.40	13.80		14.14	13.77	14.01
ISPP Run#1		13.48	13.73	13.37	14.80		14.96	15.08	14.96
ISPP Run#1		12.45	12.48	12.85	13.80		13.90	14.00	14.22
ISPP Run#1		14.65	14.75	14.68	16.80		16.10	16.38	16.10



Band 2 Ant1									
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freqs	Power Mod Ch / Freqs	Power Mod Ch / Freqs	Turn-up time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.12	16.20	16.10			
10	QPSK	1	49	16.14	16.16	16.21	17.5	0	
10	QPSK	1	99	16.84	16.88	16.96			
10	QPSK	5	0	16.03	16.10	16.97			
10	QPSK	5	24	16.01	16.06	16.93			
10	QPSK	50	0	16.97	16.99	16.74	17.5	0	
10	QPSK	100	0	16.06	16.03	16.96			
10	16QAM	1	49	16.94	16.97	16.96			
10	16QAM	1	49	16.83	16.92	16.86	17.5	0	
10	16QAM	50	0	16.80	16.86	16.96			
10	16QAM	50	24	16.96	16.99	16.87			
10	16QAM	50	50	16.87	16.90	16.74	17.5	0	
10	16QAM	50	0	16.87	16.90	16.92			
10	64QAM	1	0	16.10	16.00	16.92			
10	64QAM	1	49	16.77	16.70	16.76	17.5	0	
10	64QAM	1	99	16.85	16.91	16.92			
10	64QAM	50	0	16.02	16.14	16.91			
10	64QAM	50	24	16.87	16.90	16.94	17.5	0	
10	64QAM	50	50	16.88	16.90	16.92			
10	64QAM	100	0	16.82	16.94	16.92			
10	256QAM	1	49	16.74	16.83	16.76	17.5	0	
10	256QAM	1	99	16.83	16.83	16.91			
10	256QAM	50	0	16.83	16.82	16.93			
10	256QAM	50	24	16.91	16.87	16.89	17.5	0	
10	256QAM	50	50	16.83	16.82	16.96			
10	256QAM	100	0	16.85	16.88	16.92			
Channel									
Frequency (MHz)									
15	QPSK	1	0	16.97	16.99	16.75	Turn-up time (sec)	MPR (dB)	
15	QPSK	1	49	16.99	16.72	16.93	17.5	0	
15	QPSK	1	99	16.81	16.86	16.91			
15	QPSK	50	0	16.99	16.14	16.93			
15	QPSK	50	24	16.87	16.90	16.95	17.5	0	
15	QPSK	36	39	16.86	16.82	16.71			
15	QPSK	75	0	16.84	16.86	16.96			
15	16QAM	1	0	16.87	16.92	16.92			
15	16QAM	1	37	16.81	16.89	16.85	17.5	0	
15	16QAM	1	99	16.81	16.86	16.96			
15	16QAM	36	74	16.85	16.90	16.94			
15	16QAM	36	20	16.91	16.81	16.94	17.5	0	
15	16QAM	36	0	16.92	16.85	16.96			
15	16QAM	75	0	16.81	16.80	16.89			
15	64QAM	1	0	16.85	16.93	16.98	17.5	0	
15	64QAM	1	99	16.85	16.91	16.92			
15	64QAM	1	74	16.76	16.90	16.73			
15	64QAM	36	0	16.85	16.85	16.77	17.5	0	
15	64QAM	36	74	16.77	16.91	16.78			
15	64QAM	36	39	16.77	16.91	16.81			
15	64QAM	75	0	16.70	16.81	16.86			
15	256QAM	1	37	16.89	16.90	16.70	17.5	0	
15	256QAM	1	74	16.71	16.96	16.97			
15	256QAM	36	0	16.86	16.90	16.93			
15	256QAM	36	20	16.92	16.84	16.93	17.5	0	
15	256QAM	36	39	16.74	16.73	16.91			
15	256QAM	75	0	16.85	16.88	16.91			
Channel									
Frequency (MHz)									
16	QPSK	1	0	16.85	16.89	16.95	Turn-up time (sec)	MPR (dB)	
16	QPSK	1	25	16.89	16.78	16.78	17.5	0	
16	QPSK	1	49	16.77	16.99	16.92			
16	QPSK	25	0	16.89	16.89	16.99			
16	QPSK	25	13	16.97	16.89	16.83	17.5	0	
16	QPSK	25	25	16.89	16.80	16.70			
16	QPSK	25	39	16.85	16.85	16.88			
16	16QAM	1	0	16.83	16.92	16.86			
16	16QAM	1	25	16.81	16.83	16.81	17.5	0	
16	16QAM	1	75	16.81	16.86	16.94			
16	16QAM	25	0	16.96	16.99	16.92			
16	16QAM	25	12	16.89	16.82	16.79	17.5	0	
16	16QAM	25	13	16.81	16.78	16.82			
16	16QAM	50	0	16.82	16.90	16.91			
16	64QAM	1	0	16.06	16.94	16.93	17.5	0	
16	64QAM	1	49	16.85	16.75	16.83			
16	64QAM	1	49	16.81	16.93	16.76			
16	64QAM	25	0	16.91	16.07	16.79	17.5	0	
16	64QAM	25	13	16.77	16.94	16.86			
16	64QAM	25	25	16.82	16.83	16.83			
16	64QAM	50	0	16.71	16.93	16.85	17.5	0	
16	256QAM	1	25	16.82	16.90	16.85			
16	256QAM	1	25	16.71	16.78	16.86	17.5	0	
16	256QAM	25	12	16.88	16.81	16.86			
16	256QAM	25	25	16.72	16.72	16.94	17.5	0	
16	256QAM	50	0	16.87	16.94	16.94			
Channel									
Frequency (MHz)									
3	QPSK	1	0	16.10	16.20	16.04	Turn-up time (sec)	MPR (dB)	
3	QPSK	1	8	16.91	16.86	16.81	17.5	0	
3	QPSK	1	14	16.75	16.87	16.86			
3	QPSK	8	0	16.89	16.13	16.24			
3	QPSK	8	4	16.98	16.88	16.83	17.5	0	
3	QPSK	8	7	16.88	16.77	16.87			
3	QPSK	15	0	16.88	16.92	16.94			
3	16QAM	1	0	16.83	16.94	16.95			
3	16QAM	1	8	16.79	16.85	16.80	17.5	0	
3	16QAM	1	16QAM	1	16.87	16.86			
3	16QAM	8	0	16.89	16.93	16.77			
3	16QAM	8	4	16.86	16.85	16.73	17.5	0	
3	16QAM	15	0	16.76	16.89	16.81			
3	64QAM	1	0	16.77	16.98	16.85	17.5	0	
3	64QAM	1	0	16.82	16.90	16.91			
3	64QAM	15	0	16.69	16.71	16.98	17.5	0	
3	64QAM	1	14	16.89	16.91	16.70			
3	64QAM	8	0	16.89	16.93	16.80			
3	64QAM	8	7	16.78	16.87	16.98	17.5	0	
3	64QAM	15	0	16.93	16.94	16.92			
3	256QAM	1	8	16.85	16.80	16.99	17.5	0	
3	256QAM	8	0	16.96	16.99	16.98			
3	256QAM	8	4	16.83	16.79	16.95	17.5	0	
3	256QAM	8	7	16.73	16.79	16.92			
3	256QAM	15	0	16.86	16.90	16.90			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	16.07	16.20	16.02	Turn-up time (sec)	MPR (dB)	
1.4	QPSK	1	3	16.86	16.85	16.81	17.5	0	
1.4	QPSK	1	5	16.80	16.86	16.96			
1.4	QPSK	3	0	16.96	16.12	16.98			
1.4	QPSK	3	1	16.99	16.91	16.82	17.5	0	
1.4	QPSK	3	1	16.93	16.86	16.71			
1.4	QPSK	6	16QAM	1	16.89	16.93			
1.4	16QAM	1	0	16.90	16.90	16.89	17.5	0	
1.4	16QAM	1	3	16.73	16.86	16.87			
1.4	16QAM	1	0	16.71	16.89	16.96	17.5	0	
1.4	16QAM	3	0	16.86	16.97	16.87			
1.4	16QAM	3	0	16.91	16.70	16.84			
1.4	16QAM	6	0	16.78	16.71	16.87	17.5	0	
1.4	16QAM	6	0	16.82	16.99	16.89			
1.4	16QAM	6	0	16.80	16.97	16.92			
1.4	16QAM	1	0	16.68	16.89	16.89			
1.4	64QAM	1	5	16.77	16.98	16.74	17.5	0	
1.4	64QAM	1	6	16.86	16.94	16.94			
1.4	64QAM	3	0	16.85	16.98	16.86			
1.4	64QAM	3	3	16.78	16.80	16.81	17.5	0	
1.4	256QAM	1	0	16.98	16.99	16.90			
1.4	256QAM	1	3	16.84	16.70	16.70			
1.4	256QAM	1	6	16.78	16.95	16.96	17.5	0	
1.4	256QAM	3	0	16.92	16.94	16.91			
1.4	256QAM	3	1	16.77	16.83	16.98			
1.4	256QAM	6	0	16.76	16.70	16.14	17.5	0	
1.4	256QAM	6	0	16.88	16.87	16.77			

Band 4 Ant1									
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freqs	Power Mod Ch / Freqs	Power Mod Ch / Freqs	Turnup time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.37	16.46	16.42			
15	QPSK	1	49	16.20	16.21	16.21	17.8	0	
10	QPSK	1	99	16.27	16.21	16.26			
10	QPSK	50	0	16.36	16.36	16.32			
10	QPSK	50	24	16.17	16.17	16.26	17.8	0	
10	QPSK	50	50	16.27	16.27	16.16			
10	QPSK	100	0	16.25	16.28	16.23			
10	16QAM	1	49	16.14	16.21	16.15	17.8	0	
10	16QAM	1	99	16.18	16.17	16.20			
10	16QAM	50	24	16.10	16.10	16.20	17.8	0	
10	16QAM	50	50	16.11	16.11	16.07			
10	16QAM	100	0	16.15	16.15	16.16			
20	QPSK	1	0	16.35	16.30	16.24			
15	QPSK	1	49	16.19	16.22	16.14	17.8	0	
10	QPSK	1	99	16.26	16.20	16.26			
10	QPSK	50	0	16.22	16.21	16.19			
10	QPSK	50	24	16.10	16.10	16.20	17.8	0	
10	QPSK	50	50	16.11	16.11	16.07			
10	QPSK	100	0	16.15	16.15	16.12			
20	QPSK	1	0	16.24	16.36	16.21			
15	QPSK	1	49	16.15	16.27	16.16	17.8	0	
10	QPSK	1	99	16.16	16.18	16.26			
10	QPSK	50	24	16.23	16.22	16.20			
10	QPSK	50	50	16.24	16.24	16.19	17.8	0	
10	QPSK	50	50	16.20	16.21	16.14			
10	QPSK	100	0	16.29	16.29	16.16			
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.17.5	17.17.5	17.17.5	Turnup time (sec)	MPR (dB)	
15	QPSK	1	49	16.33	16.37	16.47.5	17.8	0	
10	QPSK	1	99	16.18	16.28	16.15			
10	QPSK	1	74	16.25	16.10	16.23			
10	QPSK	50	0	16.30	16.24	16.23			
10	QPSK	50	24	16.22	16.21	16.20	17.8	0	
10	QPSK	50	50	16.23	16.23	16.19			
10	QPSK	100	0	16.22	16.23	16.12			
10	16QAM	1	49	16.17	16.18	16.16	17.8	0	
10	16QAM	1	99	16.07	16.17	16.09			
10	16QAM	50	24	16.28	16.28	16.15	17.8	0	
10	16QAM	50	50	16.01	16.15	16.06			
10	16QAM	100	0	16.09	16.09	16.06	17.8	0	
10	16QAM	75	0	16.21	16.10	16.02			
10	16QAM	1	0	16.29	16.22	16.17			
10	16QAM	1	49	16.15	16.15	16.15	17.8	0	
10	16QAM	1	99	16.16	16.16	16.16			
10	16QAM	1	74	15.98	16.13	16.10			
10	16QAM	50	0	16.11	16.29	16.03			
10	16QAM	50	24	16.03	16.13	16.03	17.8	0	
10	16QAM	50	50	15.99	16.14	16.06			
10	16QAM	75	0	16.10	16.14	16.02			
10	16QAM	100	0	16.02	16.02	16.02			
10	25QAM	1	37	16.03	16.18	16.13	17.8	0	
10	25QAM	1	74	16.10	16.15	16.20			
10	25QAM	50	0	16.05	16.10	16.02			
10	25QAM	50	24	16.03	16.13	16.08	17.8	0	
10	25QAM	50	50	16.15	16.07	16.02			
10	25QAM	100	0	16.23	16.23	16.16			
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.17.5	17.17.5	17.17.5	Turnup time (sec)	MPR (dB)	
15	QPSK	1	49	16.22	16.32	16.26	17.8	0	
10	QPSK	1	26	16.09	16.33	16.27			
10	QPSK	1	49	16.24	16.08	16.14			
10	QPSK	1	99	16.30	16.33	16.28			
10	QPSK	50	12	16.09	16.21	16.07	17.8	0	
10	QPSK	50	25	16.24	16.24	16.04			
10	QPSK	50	50	16.15	16.18	16.10			
10	QPSK	100	0	16.14	16.20	16.26			
10	16QAM	1	26	16.09	16.10	16.05	17.8	0	
10	16QAM	1	49	16.15	16.15	16.15			
10	16QAM	1	99	16.08	16.18	16.13			
10	16QAM	25	0	16.28	16.18	16.13			
10	16QAM	25	12	15.90	16.07	16.06	17.8	0	
10	16QAM	50	12	16.04	16.15	16.06			
10	16QAM	50	0	16.14	16.13	16.00			
10	16QAM	50	25	16.32	16.30	16.10			
10	16QAM	50	50	16.15	16.14	16.06	17.8	0	
10	16QAM	100	0	16.00	16.06	16.06			
10	25QAM	1	49	16.00	16.27	16.01			
10	25QAM	25	12	16.04	16.17	16.03	17.8	0	
10	25QAM	50	12	16.07	16.07	16.07			
10	25QAM	50	0	16.12	16.28	16.08			
10	25QAM	100	0	16.01	16.20	16.17			
10	25QAM	1	26	16.14	16.14	16.14	17.8	0	
10	25QAM	25	0	16.10	16.10	16.20			
10	25QAM	25	12	16.02	16.11	16.20			
10	25QAM	50	12	16.01	16.01	16.01	17.8	0	
10	25QAM	50	50	16.22	16.22	16.10			
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.17.5	17.17.5	17.17.5	Turnup time (sec)	MPR (dB)	
15	QPSK	1	49	16.27	16.44	16.30	17.8	0	
10	QPSK	1	12	16.10	16.34	16.26			
10	QPSK	1	24	16.19	16.07	16.15			
10	QPSK	1	24	16.13	16.21	16.14			
10	QPSK	12	7	16.09	16.14	16.06	17.8	0	
10	QPSK	12	13	16.04	16.13	16.04			
10	QPSK	25	0	16.18	16.24	16.21			
10	QPSK	1	0	16.17	16.29	16.19			
10	QPSK	1	6	16.17	16.29	16.19	17.8	0	
10	QPSK	1	12	16.07	16.18	16.10			
10	QPSK	12	0	16.21	16.18	16.13			
10	QPSK	12	13	16.07	16.18	16.10	17.8	0	
10	QPSK	12	13	16.00	16.03	16.04			
10	QPSK	25	0	16.14	16.16	16.06			
10	QPSK	25	13	16.17	16.17	16.07	17.8	0	
10	QPSK	1	12	16.07	16.16	16.07			
10	QPSK	1	24	15.95	16.10	16.07			
10	QPSK	12	7	16.07	16.08	15.98	17.8	0	
10	QPSK	12	13	15.99	16.14	16.01			
10	QPSK	12	13	16.02	16.04	15.99			
10	25QAM	1	0	16.10	16.20	16.11			
10	25QAM	1	12	16.00	16.21	16.01	17.8	0	
10	25QAM	1	24	16.13	16.14	16.14			
10	25QAM	12	0	16.18	16.12	16.23			
10	25QAM	12	13	16.04	16.10	16.04			
10	25QAM	25	0	16.12	16.16	16.10	17.8	0	
10	25QAM	25	13	16.22	16.16	16.10			
Channel									
Frequency (MHz)									
3	QPSK	1	0	17.11.5	17.12.2	17.13.5	Turnup time (sec)	MPR (dB)	
3	QPSK	1	0	16.27	16.35	16.42	17.8	0	
3	QPSK	1	8	16.15	16.29	16.20			
3	QPSK	1	24	16.20	16.22	16.22			
3	QPSK	8	0	16.24	16.35	16.29			
3	QPSK	8	4	16.08	16.14	16.09	17.8	0	
3	QPSK	15	0	16.20	16.22	16.18			
3	QPSK	15	0	16.24	16.24	16.20			
3	QPSK	15	0	16.20	16.19	16.20	17.8	0	
3	QPSK	15	0	16.07	16.04	16.12			
3	QPSK	15	0	16.19	16.27	16.17			
3	QPSK	15	0	16.07	16.18	16.10	17.8	0	
3	QPSK	8	7	16.00	16.04	15.99			
3	QPSK	15	0	16.14	16.16	16.16			
3	QPSK	15	0	16.21	16.21	16.16	17.8	0	
3	QPSK	1	8	16.00	16.09	16.01			
3	QPSK	8	14	16.12	16.20	16.09	17.8	0	
3	QPSK	8	14	16.02	16.15	15.99			
3	QPSK	8	4	16.02	16.15	15.99	17.8	0	
3	QPSK	15	0	16.05	16.11	16.06			
3	25QAM	1	0	16.15	16.24	16.11			
3	25QAM	1	14	16.14	16.10	16.13	17.8	0	
3	25QAM	8	0	16.13	16.11	16.21			
3	25QAM	8	7	16.12	16.09	16.10	17.8	0	
3	25QAM	15	0	16.22	16.16	16.10			
Channel									
Frequency (MHz)									
14	QPSK	1	0	17.01.7	17.02.5	17.04.3	Turnup time (sec)	MPR (dB)	
14	QPSK	1	0	16.26	16.42	16.28	17.8	0	
14	QPSK	1	8	16.15	16.27	16.16			
14	QPSK	1	8	16.14	16.10	16.22			
14	QPSK	3	0	16.33	16.36	16.25			
14	QPSK	3	0	16.08	16.22	16.16			
14	QPSK	3	3	16.24	16.18	16.21	17.8	0	
14	QPSK	6	0	16.19	16.24	16.14			
14	QPSK	6	0	16.25	16.25	16.25	17.8	0	
14	QPSK	1	3	16.06	16.14	16.04			
14	QPSK	1	3	16.13	16.09	16.12	17.8	0	
14	QPSK	1	14	16.23	16.23	16.16			
14	QPSK	1	3	15.95	16.06	15.97			
14	QPSK	3	3	16.09	16.01	16.02	17.8	0	
14	QPSK	3	3	16.07	16.17	16.07			
14	QPSK	1	0	16.33	16.21	16.10			
14	QPSK	1	8	16.08	16.20	16.10	17.8	0	
14	QPSK	1	14	16.03	16.17	16.03			
14	QPSK	3	1	16.07	16.11	16.06			
14	QPSK	3	3	16.09	16.03	16.03	17.8	0	



Band 12 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.32	21.47	21.24			
10	QPSK	1	25	21.13	21.13	21.13	22.8	0	
10	QPSK	1	49	21.12	21.14	21.24			
10	QPSK	25	0	21.31	21.36	21.27			
10	QPSK	25	12	21.03	21.20	21.13	22.8	0	
10	QPSK	25	25	21.21	21.20	21.20			
10	QPSK	50	0	21.17	21.24	21.13			
10	16QAM	1	0	21.38	21.37	21.38	22.8	0	
10	16QAM	1	25	21.05	21.09	21.05			
10	16QAM	1	49	21.02	21.04	21.15			
10	16QAM	25	0	21.20	21.23	21.20	22.8	0	
10	16QAM	25	12	20.94	21.28	21.04			
10	16QAM	25	25	21.07	21.14	21.18			
10	16QAM	50	0	21.05	21.20	21.02			
10	64QAM	1	0	21.25	21.36	21.10	22.8	0	
10	64QAM	1	25	21.03	21.16	21.10			
10	64QAM	1	49	21.05	21.01	21.15			
10	64QAM	25	0	20.95	20.92	20.97			
10	64QAM	25	12	20.88	21.01	20.80	22	0.6	
10	64QAM	25	25	20.93	20.81	20.84			
10	64QAM	50	0	20.91	20.83	20.81			
10	256QAM	1	0	18.94	18.92	18.90	20	2.6	
10	256QAM	1	25	18.87	18.90	18.87			
10	256QAM	1	49	18.79	18.84	18.83			
10	256QAM	25	0	18.93	18.86	18.80	20	2.6	
10	256QAM	25	12	18.70	18.92	18.88			
10	256QAM	25	25	18.80	18.80	18.80			
10	256QAM	50	0	18.87	18.85	18.85			
Channel									
Frequency (MHz)									
8	QPSK	1	0	21.24	21.44	21.22			
8	QPSK	1	24	21.07	21.09	21.05	22.8	0	
8	QPSK	1	48	21.08	21.04	21.15			
8	QPSK	12	0	21.21	21.33	21.24			
8	QPSK	12	7	21.01	21.24	21.02	22.8	0	
8	QPSK	12	13	21.19	21.14	21.13			
8	QPSK	25	0	21.09	21.18	21.10			
8	16QAM	1	0	21.21	21.29	21.04	22.8	0	
8	16QAM	1	12	20.93	21.02	20.92			
8	16QAM	1	24	20.97	20.98	21.04			
8	16QAM	12	0	21.07	21.13	21.15	22.8	0	
8	16QAM	12	7	20.88	21.24	21.02			
8	16QAM	12	13	21.06	21.04	21.06			
8	64QAM	1	0	21.00	21.12	20.88			
8	64QAM	1	0	21.11	21.25	20.90	22.8	0	
8	64QAM	1	24	20.99	20.98	21.04			
8	64QAM	1	24	20.91	20.99	21.10			
8	64QAM	12	0	20.85	20.70	20.76	22	0.6	
8	64QAM	12	7	20.87	20.96	20.78			
8	64QAM	12	13	20.95	20.95	20.78			
8	64QAM	25	0	20.72	20.79	20.75			
8	256QAM	1	0	18.92	18.82	18.87	20	2.6	
8	256QAM	1	12	18.85	18.90	18.79			
8	256QAM	1	24	18.75	18.82	18.78			
8	256QAM	12	0	18.83	18.75	18.84	20	2.6	
8	256QAM	12	13	18.86	18.86	18.79			
8	256QAM	25	0	18.78	18.75	18.75			
Channel									
Frequency (MHz)									
3	QPSK	1	0	21.05	21.43	21.09			
3	QPSK	1	8	21.01	21.15	21.06	22.8	0	
3	QPSK	1	16	21.05	21.04	21.14			
3	QPSK	8	0	21.20	21.23	21.20			
3	QPSK	8	7	20.92	21.24	21.05	22.8	0	
3	QPSK	8	7	21.18	21.15	21.07			
3	16QAM	1	0	21.15	21.32	21.04			
3	16QAM	1	8	21.01	20.87	20.87	22.8	0	
3	16QAM	1	16	20.98	20.92	21.04			
3	16QAM	8	0	21.13	21.19	21.11			
3	16QAM	8	4	20.85	21.24	20.98	22.8	0	
3	16QAM	8	11	21.00	21.11	21.10			
3	64QAM	1	0	21.00	21.07	20.99			
3	64QAM	1	0	21.13	21.29	21.08	22.8	0	
3	64QAM	1	8	20.92	21.13	21.01			
3	64QAM	1	16	21.02	20.95	21.06			
3	64QAM	8	0	20.70	20.87	20.87	22	0.6	
3	64QAM	8	4	20.46	20.89	20.76			
3	64QAM	8	7	20.87	20.82	20.80			
3	64QAM	16	0	20.87	20.59	20.59			
3	256QAM	1	0	18.82	18.82	18.87	20	2.6	
3	256QAM	1	8	18.74	18.79	18.81			
3	256QAM	1	16	18.74	18.82	18.78			
3	256QAM	8	0	18.68	18.85	18.87	20	2.6	
3	256QAM	8	4	18.49	18.78	18.73			
3	256QAM	8	7	18.84	18.88	18.79			
3	256QAM	16	0	18.78	18.75	18.75			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	21.21	21.25	21.21			
1.4	QPSK	1	3	21.02	21.08	21.08	22.8	0	
1.4	QPSK	1	5	21.08	21.08	21.17			
1.4	QPSK	3	0	21.23	21.25	21.15			
1.4	QPSK	3	1	21.04	21.06	21.01			
1.4	QPSK	3	3	21.03	21.11	21.12	22.8	0	
1.4	16QAM	1	0	21.24	21.22	21.16			
1.4	16QAM	1	0	20.98	21.22	21.09			
1.4	16QAM	1	3	21.08	21.12	21.18	22.8	0	
1.4	16QAM	1	5	21.07	21.20	21.07			
1.4	16QAM	3	0	21.22	21.25	21.15			
1.4	16QAM	3	1	20.96	20.98	20.88			
1.4	16QAM	3	3	20.91	20.93	21.05	22.8	0	
1.4	16QAM	6	0	21.13	21.09	21.17			
1.4	64QAM	1	0	20.90	21.18	20.90			
1.4	64QAM	1	3	21.05	21.09	21.12	22.8	0	
1.4	64QAM	1	5	21.01	21.11	20.97			
1.4	64QAM	3	0	21.18	21.27	21.08			
1.4	64QAM	3	0	20.95	21.12	21.00	22	0.6	
1.4	64QAM	3	3	20.98	20.99	21.11			
1.4	64QAM	6	0	20.88	20.88	20.77			
1.4	256QAM	1	0	18.83	18.84	18.77	20	2.6	
1.4	256QAM	1	3	18.73	18.73	18.78			
1.4	256QAM	1	5	18.94	18.74	18.78			
1.4	256QAM	3	0	18.72	18.86	18.85	20	2.6	
1.4	256QAM	3	1	18.64	18.89	18.82			
1.4	256QAM	3	0	18.89	18.73	18.74			
1.4	256QAM	6	0	18.91	18.65	18.70	20	2.6	

Band 13 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0		78.2				
10	QPSK	1	25		21.47		22.8		0
10	QPSK	1	49		21.48				
10	QPSK	25	0		21.58				
10	QPSK	25	12		21.48		22.8		0
10	QPSK	25	25		21.35				
10	16QAM	1	0		21.39		22.8		0
10	16QAM	1	25		21.27				
10	16QAM	1	49		21.25				
10	16QAM	25	0		21.37		22.8		0
10	16QAM	25	12		21.42				
10	16QAM	25	25		21.43				
10	16QAM	50	0		21.48				
10	64QAM	1	0		21.40		22.8		0
10	64QAM	1	25		21.22				
10	64QAM	1	49		21.31				
10	64QAM	25	0		21.21				
10	64QAM	25	12		21.86		22		0.8
10	64QAM	25	25		21.86				
10	64QAM	50	0		21.43				
10	256QAM	1	0		18.90		20		2.8
10	256QAM	1	25		18.79				
10	256QAM	1	49		18.77				
10	256QAM	25	0		19.04		20		2.8
10	256QAM	25	12		18.89				
10	256QAM	25	25		18.86				
10	256QAM	50	0		18.13				
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.58	21.58	21.58			
5	QPSK	1	12	21.38	21.42	21.45	22.8		0
5	QPSK	1	24	21.37	21.39	21.33			
5	QPSK	12	0	21.43	21.54	21.48			
5	QPSK	12	7	21.38	21.40	21.34	22.8		0
5	QPSK	12	13	21.28	21.22	21.30			
5	QPSK	25	0	21.34	21.39	21.38			
5	16QAM	1	0	21.25	21.30	21.32	22.8		0
5	16QAM	1	12	21.26	21.25	21.14			
5	16QAM	1	24	21.22	21.12	21.12			
5	16QAM	12	0	21.23	21.33	21.27			
5	16QAM	12	6	21.34	21.38	21.38	22.8		0
5	16QAM	12	18	21.35	21.41	21.36			
5	16QAM	25	0	21.39	21.38	21.36			
5	256QAM	1	0	18.90	18.43	18.54	22.8		0
5	256QAM	1	12	21.09	21.14	21.10			
5	256QAM	1	24	21.20	21.20	21.19			
5	256QAM	12	0	21.12	21.12	21.06	22		0.8
5	256QAM	12	7	21.04	20.90	21.01			
5	256QAM	12	19	21.02	20.95	21.01			
5	256QAM	25	0	21.50	21.37	21.29			
5	256QAM	1	18.09	18.04	18.05				
5	256QAM	1	12	18.00	18.00	18.00	20		2.8
5	256QAM	12	0	18.00	18.00	18.00			
5	256QAM	12	6	19.14	19.26	19.18			
5	256QAM	12	7	19.19	19.12	19.18	20		2.8
5	256QAM	12	13	19.10	18.99	18.98			
5	256QAM	12	19	19.36	19.36	19.35			



Band 25 Ant1															
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freq	Power Mod Ch / Freq	Power Mod Ch / Freq	Turn-up time (sec)	MPR (dB)							
Channel															
Frequency (MHz)															
20	QPSK	1	0	16.21	16.20	16.13	17.5	0							
20	QPSK	1	49	16.02	16.13	16.04									
20	QPSK	1	99	15.98	16.17	16.05	17.5	0							
20	QPSK	50	0	16.13	16.22	16.09									
20	QPSK	50	24	16.05	16.20	16.13	17.5	0							
20	QPSK	50	50	16.00	15.93	15.85									
20	QPSK	100	0	16.07	16.17	16.03	17.5	0							
20	QPSK	100	24	15.98	16.17	15.99									
20	16QAM	1	49	15.88	15.98	15.91	17.5	0							
20	16QAM	50	99	15.92	16.04	16.01									
20	16QAM	1	99	15.90	16.07	15.94	17.5	0							
20	16QAM	50	24	16.00	15.95	15.94									
20	16QAM	50	50	15.93	16.01	15.76	17.5	0							
20	16QAM	100	0	15.97	16.02	15.96									
20	64QAM	1	0	16.16	16.17	16.09	17.5	0							
20	64QAM	1	49	15.90	16.07	15.94									
20	64QAM	50	0	16.04	16.20	16.02	17.5	0							
20	64QAM	50	24	15.92	16.00	15.99									
20	64QAM	100	0	15.95	16.10	15.97	17.5	0							
20	256QAM	1	49	15.87	15.90	15.83			17.5	0					
20	256QAM	1	99	15.95	16.11	16.03	17.5	0							
20	256QAM	50	24	15.97	15.76	15.76									
20	256QAM	50	50	15.88	15.90	15.73									
20	256QAM	100	0	15.84	16.07	15.98									
Channel															
Frequency (MHz)															
15	QPSK	1	0	16.17	16.15	16.29	17.5	0							
15	QPSK	1	24	15.95	15.94	15.89									
15	QPSK	1	74	15.86	16.08	15.91	17.5	0							
15	QPSK	36	0	16.01	16.08	16.02			17.5	0					
15	QPSK	36	24	15.96	15.95	15.85			17.5	0					
15	QPSK	36	39	15.94	15.83	15.72			17.5	0					
15	QPSK	75	0	16.01	16.12	16.06			17.5	0					
15	QPSK	75	0	16.03	16.03	16.03			17.5	0					
15	16QAM	1	37	15.75	15.84	15.85	17.5	0							
15	16QAM	1	74	15.67	16.02	16.07			17.5	0					
15	16QAM	36	24	15.95	15.89	15.87	17.5	0							
15	16QAM	36	20	15.89	15.82	15.89			17.5	0					
15	16QAM	75	0	15.83	16.00	15.87	17.5	0							
15	64QAM	1	0	16.12	16.03	16.04			17.5	0					
15	64QAM	1	39	15.91	15.77	15.94	17.5	0							
15	64QAM	1	74	15.79	15.94	15.87									
15	64QAM	36	0	15.88	16.17	15.97			17.5	0					
15	64QAM	36	24	15.89	15.82	15.89			17.5	0					
15	64QAM	36	39	15.90	15.75	15.74	17.5	0							
15	64QAM	75	0	15.87	16.02	15.92			17.5	0					
15	256QAM	1	49	15.86	15.98	15.86			17.5	0					
15	256QAM	1	37	15.75	15.79	15.72			17.5	0					
15	256QAM	1	74	15.87	15.87	15.96	17.5	0							
15	256QAM	50	24	15.95	15.86	15.86			17.5	0					
15	256QAM	36	20	15.95	15.87	15.75			17.5	0					
15	256QAM	36	29	15.77	15.87	15.84			17.5	0					
15	256QAM	75	0	15.84	16.03	15.85									
Channel															
Frequency (MHz)															
20	QPSK	1	0	16.05	16.06	16.06	17.5	0							
20	QPSK	1	25	15.89	15.89	15.90			17.5	0					
20	QPSK	1	49	15.92	16.12	15.95	17.5	0							
20	QPSK	25	0	16.07	16.12	16.06			17.5	0					
20	QPSK	25	13	15.95	15.87	15.89			17.5	0					
20	QPSK	25	25	15.93	15.83	15.79			17.5	0					
20	QPSK	50	0	16.01	16.02	16.02			17.5	0					
20	16QAM	1	0	16.05	16.07	16.01			17.5	0					
20	16QAM	1	25	15.79	15.91	15.83			17.5	0					
20	16QAM	1	49	15.85	16.02	15.86			17.5	0					
20	16QAM	25	0	15.91	16.03	15.89			17.5	0					
20	16QAM	25	12	15.83	15.84	15.81			17.5	0					
20	16QAM	50	0	15.82	16.16	15.71			17.5	0					
20	16QAM	50	0	15.86	16.07	15.88			17.5	0					
20	64QAM	1	49	15.88	15.98	15.89			17.5	0					
20	64QAM	25	0	15.99	16.10	15.89			17.5	0					
20	64QAM	25	0	15.84	15.90	15.82			17.5	0					
20	64QAM	25	25	15.90	15.71	15.83			17.5	0					
20	64QAM	50	0	15.92	16.01	15.83			17.5	0					
20	256QAM	1	25	15.91	15.84	15.85			17.5	0					
20	256QAM	1	26	15.75	15.87	15.79					17.5	0			
20	256QAM	1	49	15.85	16.06	15.99					17.5	0			
20	256QAM	12	0	15.80	15.80	15.87					17.5	0			
20	256QAM	1	12	15.83	15.80	15.77			17.5	0					
20	256QAM	1	13	15.82	15.84	15.82					17.5	0			
20	256QAM	1	14	15.89	15.84	15.81					17.5	0			
20	256QAM	1	15	15.92	15.86	15.83					17.5	0			
20	256QAM	1	16	16.02	16.00	16.00			17.5	0					
20	256QAM	1	17	15.92	15.98	15.73					17.5	0			
20	256QAM	1	18	15.88	15.75	15.88					17.5	0			
20	256QAM	1	19	15.89	15.96	15.91	17.5	0							
20	256QAM	1	20	15.89	15.96	15.91	17.5	0							
20	256QAM	1	21	15.89	15.96	15.91			17.5	0					
20	256QAM	1	22	15.89	15.96	15.91			17.5	0					
20	256QAM	1	23	15.89	15.96	15.91			17.5	0					
20	256QAM	1	24	15.78	15.94	15.81	17.5	0							
20	256QAM	1	25	15.85	16.16	15.87			17.5	0					
20	256QAM	12	7	15.84	15.89	15.86			17.5	0					
20	256QAM	12	19	15.94	15.73	15.87			17.5	0					
20	256QAM	1	19	15.82	15.84	15.87	17.5	0							
20	256QAM	1	20	15.89	15.84	15.81			17.5	0					
20	256QAM	1	21	15.87	15.81	15.86			17.5	0					
20	256QAM	1	22	15.87	15.81	15.86			17.5	0					
20	256QAM	1	23	15.87	15.81	15.86	17.5	0							
20	256QAM	1	24	15.81	15.82	15.87			17.5	0					
20	256QAM	1	25	15.80	15.87	15.82			17.5	0					
20	256QAM	1	26	15.82	15.87	15.82			17.5	0					
20	256QAM	1	27	15.82	15.87	15.82	17.5	0							
20	256QAM	1	28	15.82	15.87	15.82			17.5	0					
20	256QAM	1	29	15.82	15.87	15.82			17.5	0					
20	256QAM	1	30	15.82	15.87	15.82			17.5	0					
20	256QAM	1	31	15.82	15.87	15.82	17.5	0							
20	256QAM	1	32	15.82	15.87	15.82			17.5	0					
20	256QAM	1	33	15.82	15.87	15.82			17.5	0					
20	256QAM	1	34	15.82	15.87	15.82			17.5	0					
20	256QAM	1	35	15.82	15.87	15.82	17.5	0							
20	256QAM	1	36	15.82	15.87	15.82			17.5	0					
20	256QAM	1	37	15.82	15.87	15.82			17.5	0					
20	256QAM	1	38	15.82	15.87	15.82			17.5	0					
20	256QAM	1	39	15.82	15.87	15.82	17.5	0							
20	256QAM	1	40	15.82	15.87	15.82			17.5	0					
20	256QAM	1	41	15.82	15.87	15.82			17.5	0					
20	256QAM	1	42	15.82	15.87	15.82			17.5	0					
20	256QAM	1	43	15.82	15.87	15.82	17.5	0							
20	256QAM	1	44	15.82	15.87	15.82			17.5	0					
20	256QAM	1	45	15.82	15.87	15.82			17.5	0					
20	256QAM	1	46	15.82	15.87	15.82			17.5	0					
20	256QAM	1	47	15.82	15.87	15.82	17.5	0							
20	256QAM	1	48	15.82	15.87	15.82			17.5	0					
20	256QAM	1	49	15.82	15.87	15.82			17.5	0					
20	256QAM	1	50	15.82	15.87	15.82			17.5	0					
20	256QAM	1	51	15.82	15.87	15.82	17.5	0							
20	256QAM	1	52	15.82	15.87	15.82			17.5	0					
20	256QAM	1	53	15.82	15.87	15.82			17.5	0					
20	256QAM	1	54	15.82	15.87	15.82			17.5	0					
20	256QAM	1	55	15.82	15.87	15.82	17.5	0							
20	256QAM	1	56	15.82	15.87	15.82			17.5	0					
20	256QAM	1	57	15.82	15.87	15.82			17.5	0					
20	256QAM	1	58	15.82	15.87	15.82			17.5	0					
20	256QAM	1	59	15.82	15.87	15.82	17.5	0							
20	256QAM	1	60	15.82	15.87	15.82			17.5	0					
20	256QAM	1	61	15.82	15.87	15.82			17.5	0					
20	256QAM	1	62	15.82	15.87	15.82			17.5	0					
20	256QAM	1	63	15.82	15.87	15.82	17.5	0							
20	256QAM	1	64	15.82	15.87	15.82			17.5	0					
20	256QAM	1	65	15.82	15.87	15.82			17.5	0					
20	256QAM	1	66	15.82	15.87	15.82			17.5	0					
20	256QAM	1	67	15.82	15.87	15.82	17.5	0							
20	256QAM	1	68	15.82	15.87	15.82			17.5	0					
20	256QAM	1	69	15.82	15.87	15.82			17.5	0					
20	256QAM	1	70	15.82	15.87	15.82			17.5	0					
20															

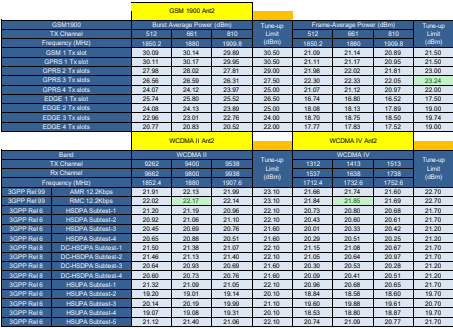
Band 71 Ant1										
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Total up limit (dBm)	MPE (dB)		
Channel				13322	13322	13322				
Frequency (MHz)				683	683	688				
20	QPSK	1	0	22.98	22.92	22.81	24	0		
20	QPSK	1	49	22.85	22.85	22.84				
20	QPSK	1	99	22.81	22.97	22.74				
20	QPSK	50	0	22.94	22.97	22.87	24	0		
20	QPSK	50	24	22.89	22.89	22.72				
20	QPSK	50	50	22.81	22.80	22.72				
20	QPSK	100	0	22.89	22.93	22.82	24	0		
20	16QAM	1	0	22.79	22.80	22.85				
20	16QAM	1	49	22.73	22.77	22.68				
20	16QAM	1	99	22.81	22.89	22.81	24	0		
20	16QAM	50	0	22.68	22.77	22.73				
20	16QAM	50	24	22.16	22.14	21.97				
20	16QAM	50	50	22.91	22.93	21.87	23	1		
20	16QAM	100	0	22.15	22.16	22.10				
20	16QAM	1	0	22.28	22.42	22.25				
20	16QAM	1	49	22.11	22.09	22.21	23	1		
20	16QAM	1	99	22.13	22.34	22.10				
20	16QAM	50	24	21.15	21.09	20.85				
20	16QAM	50	50	20.93	21.03	20.98	20	4		
20	16QAM	100	0	21.14	21.07	20.98				
20	256QAM	1	0	19.04	19.09	18.93				
20	256QAM	1	49	18.79	18.88	18.85	20	4		
20	256QAM	1	99	18.75	19.03	18.81				
20	256QAM	50	0	18.87	18.18	18.85				
20	256QAM	50	24	18.98	18.91	18.88	20	4		
20	256QAM	50	50	18.84	18.82	18.73				
20	256QAM	100	0	18.86	18.93	18.82				
Channel				133197	133297	133397				
Frequency (MHz)				670.5	680.5	690.5				
15	QPSK	1	0	22.75	22.88	22.82	24	0		
15	QPSK	1	37	22.72	22.89	22.84				
15	QPSK	1	74	22.71	22.87	22.69				
15	QPSK	36	0	22.68	22.85	22.79	24	0		
15	QPSK	36	20	22.84	22.83	22.81				
15	QPSK	36	39	22.72	22.59	22.48				
15	16QAM	1	0	22.80	22.89	22.72	24	0		
15	16QAM	1	37	22.87	22.57	22.53				
15	16QAM	1	74	22.41	22.68	22.49				
15	16QAM	36	0	21.88	22.14	21.95	23	1		
15	16QAM	36	20	22.02	22.03	21.89				
15	16QAM	36	39	21.90	21.92	21.85				
15	16QAM	75	0	22.05	22.04	21.85	22	2		
15	16QAM	1	0	22.10	22.34	22.57				
15	16QAM	1	37	22.09	22.02	22.18				
15	16QAM	1	74	22.05	22.17	21.93	22	2		
15	16QAM	36	0	20.93	21.12	20.81				
15	16QAM	36	20	21.05	20.94	20.85				
15	16QAM	36	39	20.77	20.77	20.75	20	4		
15	16QAM	75	0	21.09	21.00	20.88				
15	256QAM	1	0	18.85	18.94	18.81				
15	256QAM	1	37	18.80	18.87	18.74	20	4		
15	256QAM	1	74	18.82	18.91	18.69				
15	256QAM	36	0	18.83	18.92	18.85				
15	256QAM	36	20	18.73	18.76	18.72	20	4		
15	256QAM	36	39	18.68	18.83	18.67				
15	256QAM	75	0	18.60	18.67	18.73				
Channel				133172	133272	133372				
Frequency (MHz)				668	678	683				
10	QPSK	1	0	22.84	22.86	22.79	24	0		
10	QPSK	1	25	22.58	22.66	22.68				
10	QPSK	1	49	22.74	22.86	22.51				
10	QPSK	25	0	22.71	22.89	22.72	24	0		
10	QPSK	25	12	22.76	22.74	22.60				
10	QPSK	25	25	22.77	22.71	22.52				
10	16QAM	1	0	22.88	22.88	22.75	24	0		
10	16QAM	1	0	22.79	22.68	22.71				
10	16QAM	1	25	22.86	22.69	22.39				
10	16QAM	1	49	22.81	22.66	22.48	23	1		
10	16QAM	25	0	22.09	22.04	21.98				
10	16QAM	25	12	21.99	21.91	21.82				
10	16QAM	25	25	21.93	21.76	21.77	23	1		
10	16QAM	50	0	22.09	22.02	21.93				
10	16QAM	1	0	22.13	22.27	22.06				
10	16QAM	1	25	21.98	22.06	22.14	23	1		
10	16QAM	1	49	21.97	22.10	21.88				
10	16QAM	25	0	21.03	21.08	21.00				
10	16QAM	25	12	20.96	20.90	20.85	22	2		
10	16QAM	50	0	20.89	20.84	20.88				
10	256QAM	1	0	18.95	18.92	18.85				
10	256QAM	1	25	18.85	18.77	18.73	20	4		
10	256QAM	1	49	18.68	18.89	18.59				
10	256QAM	25	0	18.74	19.00	18.81				
10	256QAM	25	12	18.80	18.88	18.85	20	4		
10	256QAM	25	25	18.68	18.76	18.54				
10	256QAM	50	0	18.78	18.92	18.82				
Channel				133147	133247	133347				
Frequency (MHz)				665.5	675.5	685.5				
5	QPSK	1	0	22.82	22.95	22.68	24	0		
5	QPSK	1	12	22.71	22.65	22.77				
5	QPSK	1	24	22.84	22.90	22.62				
5	QPSK	12	0	22.85	22.72	22.69	24	0		
5	QPSK	12	7	22.71	22.72	22.48				
5	QPSK	12	13	22.62	22.54	22.48				
5	QPSK	25	0	22.84	22.79	22.74	24	0		
5	16QAM	1	0	22.83	22.69	22.72				
5	16QAM	1	12	22.48	22.58	22.46				
5	16QAM	1	24	22.14	22.67	22.48	23	1		
5	16QAM	12	0	21.91	22.20	22.01				
5	16QAM	12	7	21.97	21.92	21.88				
5	16QAM	12	13	21.86	21.96	21.70	23	1		
5	16QAM	25	0	22.10	22.11	22.00				
5	16QAM	1	0	22.08	22.18	22.01				
5	16QAM	1	12	22.03	22.05	22.04	22	2		
5	16QAM	1	24	21.87	22.21	21.79				
5	16QAM	12	0	20.97	21.04	20.82				
5	16QAM	12	7	21.00	20.89	20.75	20	4		
5	16QAM	12	13	20.76	20.87	20.79				
5	16QAM	25	0	20.93	20.88	20.86				
5	256QAM	1	0	18.92	18.87	18.87	20	4		
5	256QAM	1	12	18.68	18.79	18.77				
5	256QAM	1	24	18.54	18.94	18.71	20	4		
5	256QAM	12	0	18.72	19.12	18.71				
5	256QAM	12	7	18.85	18.83	18.78	20	4		
5	256QAM	12	13	18.71	18.86	18.67				
5	256QAM	25	0	18.80	18.85	18.87				



Band 38 Ant1														
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	18.91	19.01	18.75	20.4	0						
20	QPSK	1	49	18.87	18.78	18.56								
20	QPSK	1	99	18.85	18.73	18.78								
20	QPSK	50	0	18.95	18.95	18.73								
20	QPSK	50	24	18.72	18.68	18.52	20.4	0						
20	QPSK	50	49	18.52	18.58	18.78								
20	QPSK	100	0	18.69	18.77	18.69								
20	15QAM	1	0	18.99	18.99	18.68								
20	15QAM	1	49	18.77	18.58	18.48	20.4	0						
20	15QAM	1	99	18.78	18.67	18.48								
20	15QAM	50	0	18.48	18.59	18.51								
20	15QAM	50	24	18.42	18.59	18.48								
20	15QAM	50	50	18.28	18.48	18.37	20	0.4						
20	15QAM	100	0	18.22	18.54	18.27								
20	15QAM	100	1	18.71	18.71	18.77								
20	15QAM	1	49	18.74	18.71	18.71								
20	15QAM	50	0	17.80	17.83	17.87	19	1.4						
20	15QAM	50	24	17.60	17.62	17.57								
20	15QAM	50	50	17.45	17.57	17.55								
20	15QAM	100	0	17.71	17.66	17.84								
20	25QAM	1	0	18.81	18.76	18.76	17	3.4						
20	25QAM	1	49	18.71	18.65	18.63								
20	25QAM	1	99	18.72	18.66	18.73								
20	25QAM	50	0	18.64	18.67	18.66								
20	25QAM	50	24	18.61	18.59	18.59	17	3.4						
20	25QAM	50	50	18.62	18.68	18.64								
20	25QAM	100	0	18.65	18.67	18.67								
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.78	18.84	18.66			20.4	0				
15	QPSK	1	37	18.83	18.69	18.52								
15	QPSK	1	74	18.72	18.81	18.71								
15	QPSK	36	0	18.84	18.78	18.45								
15	QPSK	36	20	18.67	18.78	18.45	20.4	0						
15	QPSK	36	36	18.68	18.68	18.68								
15	QPSK	75	0	18.67	18.70	18.65								
15	15QAM	1	0	18.81	18.85	18.85								
15	15QAM	1	37	18.81	18.81	18.81	20	0.4						
15	15QAM	1	74	18.71	18.67	18.45								
15	15QAM	36	0	18.41	18.51	18.41								
15	15QAM	36	39	18.18	18.43	18.25								
15	15QAM	75	0	18.40	18.53	18.22	20	0.4						
15	15QAM	1	0	18.64	18.68	18.70								
15	15QAM	1	37	18.67	18.65	18.67								
15	15QAM	74	0	18.53	18.59	18.62								
15	15QAM	36	0	17.51	17.50	17.58	19	1.4						
15	15QAM	36	20	17.47	17.50	17.44								
15	15QAM	36	39	17.52	17.54	17.56								
15	15QAM	75	0	17.52	17.54	17.56								
15	25QAM	1	0	18.73	18.65	18.65	17	3.4						
15	25QAM	1	37	18.65	18.65	18.65								
15	25QAM	1	74	18.69	18.57	18.52								
15	25QAM	36	0	18.58	18.50	18.57								
15	25QAM	36	0	18.58	18.50	18.57	17	3.4						
15	25QAM	36	20	18.52	18.59	18.49								
15	25QAM	36	39	18.57	18.61	18.59								
15	25QAM	75	0	18.70	18.68	18.68								
Channel														
Frequency (MHz)														
10	QPSK	1	0	18.78	18.84	18.66	20.4	0						
10	QPSK	1	25	18.79	18.67	18.49								
10	QPSK	1	49	18.80	18.68	18.49								
10	QPSK	25	0	18.81	18.81	18.60								
10	QPSK	25	12	18.64	18.86	18.43	20.4	0						
10	QPSK	25	25	18.60	18.77	18.52								
10	QPSK	50	0	18.66	18.57	18.59								
10	15QAM	1	0	18.78	18.77	18.65								
10	15QAM	1	25	18.63	18.66	18.41	20.4	0						
10	15QAM	1	49	18.67	18.57	18.45								
10	15QAM	25	0	18.39	18.48	18.42								
10	15QAM	25	19	18.33	18.35	18.38								
10	15QAM	50	0	18.18	18.39	18.28	20	0.4						
10	15QAM	50	0	18.40	18.53	18.16								
10	15QAM	50	25	18.70	18.65	18.64								
10	15QAM	1	49	18.55	18.52	18.57								
10	15QAM	25	0	17.47	17.51	17.61	19	1.4						
10	15QAM	25	12	17.54	17.53	17.51								
10	15QAM	25	25	17.57	17.48	17.47								
10	15QAM	50	0	17.61	17.57	17.59								
10	25QAM	1	0	18.73	18.69	18.64	17	3.4						
10	25QAM	1	25	18.66	18.52	18.59								
10	25QAM	1	49	18.68	18.56	18.54								
10	25QAM	25	0	18.56	18.52	18.59								
10	25QAM	25	0	18.56	18.52	18.59	17	3.4						
10	25QAM	25	12	18.51	18.59	18.48								
10	25QAM	25	25	18.58	18.57	18.51								
10	25QAM	50	0	18.65	18.63	18.66								
Channel														
Frequency (MHz)														
5	QPSK	1	0	18.70	18.84	18.67	20.4	0						
5	QPSK	1	12	18.83	18.60	18.51								
5	QPSK	1	24	18.76	18.60	18.59								
5	QPSK	12	0	18.84	18.84	18.60								
5	QPSK	12	7	18.60	18.80	18.49	20.4	0						
5	QPSK	12	13	18.53	18.76	18.53								
5	QPSK	25	0	18.57	18.66	18.59								
5	15QAM	1	0	18.84	18.77	18.68								
5	15QAM	1	12	18.72	18.59	18.49	20.4	0						
5	15QAM	1	24	18.67	18.54	18.43								
5	15QAM	12	0	18.34	18.51	18.42								
5	15QAM	12	7	18.31	18.34	18.36								
5	15QAM	12	13	18.16	18.41	18.31	20	0.4						
5	15QAM	25	0	18.44	18.58	18.23								
5	15QAM	1	0	18.70	18.61	18.67								
5	15QAM	1	49	18.68	18.56	18.60								
5	15QAM	25	0	18.58	18.50	18.56	20	0.4						
5	15QAM	25	0	18.58	18.50	18.56								
5	15QAM	25	12	18.42	18.63	18.45								
5	15QAM	25	13	17.49	17.48	17.52								
5	15QAM	12	13	17.49	17.48	17.53	19	1.4						
5	15QAM	25	0	17.65	17.68	17.59								
5	15QAM	25	12	17.71	17.69	17.75								
5	15QAM	25	13	17.71	17.69	17.75								
5	25QAM	1	0	18.64	18.55	18.57	17	3.4						
5	25QAM	1	24	18.60	18.63	18.54								
5	25QAM	1	49	18.61	18.59	18.56								
5	25QAM	12	7	18.53	18.51	18.51	17	3.4						
5	25QAM	12	13	18.35	18.58	18.40								
5	25QAM	12	13	18.35	18.58	18.40								



Band 48_FCC Ant1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power High Ch / Freqs	Power High Mod Ch / Freqs	Power High Mod Ch / Freqs	Turn-up time (dBm)	MPP (dB)	
Channel				56540	56630	56760	56850	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56540	56630	56760	56850			
20	QPSK	1	0	19.02	19.20	19.04	19.06	20	0	
20	QPSK	1	49	18.88	19.05	19.03	18.89			
20	QPSK	1	99	19.02	19.11	19.07	19.08			
20	QPSK	50	0	19.03	19.08	19.07	19.04			
20	QPSK	50	24	18.80	19.00	18.98	18.91	20	0	
20	QPSK	50	39	18.90	19.02	18.98	18.94			
20	QPSK	100	0	18.82	19.03	19.01	18.89			
20	16QAM	1	0	18.89	19.66	18.86	18.71			
20	16QAM	1	49	18.82	19.66	18.58	18.59	20	0	
20	16QAM	1	99	18.50	18.66	18.56	18.59			
20	16QAM	50	0	18.97	19.70	18.94	18.64			
20	16QAM	50	24	18.81	19.84	18.52	18.54			
20	8QAM	100	0	18.54	18.66	18.54	18.54	20	0	
20	8QAM	1	0	18.35	18.45	18.42	18.42			
20	8QAM	1	49	18.53	18.62	18.58	18.58			
20	8QAM	1	99	18.35	18.35	18.26	18.31			
20	8QAM	50	0	18.42	18.45	18.39	18.42	20	0	
20	8QAM	50	24	18.31	18.40	18.32	18.34			
20	8QAM	50	50	18.25	18.32	18.28	18.24			
20	8QAM	100	0	18.37	18.39	18.32	18.37			
20	25QAM	1	0	18.45	18.45	18.37	18.38	18	2	
20	25QAM	1	49	18.30	18.37	18.33	18.31			
20	25QAM	1	99	18.25	18.32	18.28	18.26			
20	25QAM	50	0	18.71	18.18	18.14	18.12			
20	25QAM	50	24	18.05	18.08	18.02	18.04	18	2	
20	25QAM	50	50	18.10	18.14	18.06	18.06			
20	25QAM	100	0	18.04	18.11	18.02	18.08			
20	25QAM	100	0	18.04	18.11	18.02	18.08			
Channel				56715	56820	56760	56850	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56715	56820	56760	56850			
15	QPSK	1	0	18.03	19.07	18.39	18.38	20	0	
15	QPSK	1	37	18.74	19.01	18.88	18.77			
15	QPSK	1	74	18.90	19.02	18.96	18.88			
15	QPSK	86	2	18.87	19.02	19.00	18.81			
15	QPSK	86	20	18.72	18.93	18.89	18.87	20	0	
15	QPSK	86	39	18.72	18.83	18.88	18.88			
15	QPSK	75	0	18.78	18.94	18.95	18.82			
15	16QAM	1	0	18.59	18.63	18.62	18.67			
15	16QAM	1	37	18.57	18.54	18.52	18.45	20	0	
15	16QAM	1	74	18.40	18.59	18.54	18.57			
15	16QAM	58	0	18.55	18.61	18.60	18.58			
15	16QAM	86	20	18.51	18.54	18.40	18.47			
15	16QAM	86	39	18.51	18.53	18.42	18.43	20	0	
15	16QAM	75	0	18.48	18.61	18.50	18.42			
15	8QAM	1	0	18.34	18.40	18.39	18.37			
15	8QAM	1	37	18.40	18.60	18.53	18.51			
15	8QAM	1	74	18.25	18.31	18.16	18.26	20	0	
15	8QAM	86	0	18.35	18.35	18.33	18.29			
15	8QAM	58	20	18.28	18.31	18.24	18.24			
15	8QAM	86	39	18.16	18.25	18.24	18.25			
15	8QAM	75	0	18.31	18.37	18.29	18.27	18	2	
15	25QAM	1	0	18.41	18.37	18.33	18.32			
15	25QAM	1	37	18.20	18.34	18.28	18.28			
15	25QAM	1	74	18.18	18.28	18.20	18.18			
15	25QAM	58	0	18.03	18.12	18.10	18.06	18	2	
15	25QAM	86	20	18.07	18.00	18.02	18.05			
15	25QAM	86	39	18.03	18.07	18.03	18.04			
15	25QAM	75	0	18.02	18.06	18.03	18.02			
Channel				56290	56818	56760	56850	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56290	56818	56760	56850			
10	QPSK	1	0	18.91	19.16	19.02	18.97	20	0	
10	QPSK	1	25	18.77	18.98	18.90	18.80			
10	QPSK	1	49	18.97	19.08	19.04	18.93			
10	QPSK	25	0	18.84	19.09	19.01	18.92			
10	QPSK	25	12	18.70	18.98	18.91	18.85	20	0	
10	QPSK	25	25	18.78	19.91	18.95	18.82			
10	QPSK	50	0	18.74	19.92	18.96	18.82			
10	16QAM	1	0	18.03	18.67	18.53	18.64			
10	16QAM	1	25	18.48	18.64	18.45	18.50	20	0	
10	16QAM	1	49	18.41	18.62	18.52	18.47			
10	16QAM	25	0	18.40	18.58	18.51	18.61			
10	16QAM	25	12	18.50	18.61	18.49	18.45			
10	16QAM	25	25	18.50	18.61	18.49	18.45	20	0	
10	8QAM	50	0	18.30	18.40	18.39	18.33			
10	8QAM	1	25	18.40	18.54	18.53	18.49			
10	8QAM	1	49	18.27	18.30	18.20	18.28			
10	8QAM	25	0	18.40	18.40	18.31	18.29	20	0	
10	8QAM	25	12	18.23	18.33	18.25	18.26			
10	8QAM	25	25	18.18	18.24	18.22	18.18			
10	8QAM	50	0	18.27	18.30	18.27	18.29			
10	25QAM	1	0	18.41	18.41	18.35	18.32	18	2	
10	25QAM	1	25	18.25	18.35	18.25	18.25			
10	25QAM	1	49	18.21	18.23	18.25	18.16			
10	25QAM	25	0	18.04	18.11	18.09	18.08			
10	25QAM	25	12	18.00	18.04	18.05	18.04	18	2	
10	25QAM	25	25	18.07	18.00	18.04	18.03			
10	25QAM	50	0	18.03	18.03	18.03	18.06			
Channel				56290	56818	56760	56765	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56290	56818	56760	56765			
5	QPSK	1	0	18.91	19.14	19.02	18.93	20	0	
5	QPSK	1	12	18.70	18.99	18.92	18.81			
5	QPSK	1	24	18.97	19.06	19.01	18.96			
5	QPSK	12	0	18.80	18.99	18.97	18.81			
5	QPSK	12	7	18.89	18.89	18.85	18.89	20	0	
5	QPSK	12	13	18.74	18.95	18.94	18.77			
5	QPSK	25	0	18.78	18.66	18.97	18.78			
5	16QAM	1	0	18.07	18.67	18.54	18.66			
5	16QAM	1	12	18.48	18.54	18.49	18.51	20	0	
5	16QAM	1	24	18.40	18.54	18.47	18.48			
5	16QAM	12	0	18.44	18.58	18.59	18.53			
5	16QAM	12	7	18.58	18.54	18.39	18.45			
5	16QAM	12	13	18.48	18.51	18.37	18.50	20	0	
5	16QAM	25	0	18.40	18.61	18.53	18.45			
5	8QAM	1	0	18.31	18.37	18.36	18.35			
5	8QAM	1	12	18.43	18.54	18.52	18.59			
5	8QAM	1	24	18.24	18.28	18.20	18.25	20	0	
5	8QAM	12	0	18.34	18.43	18.31	18.40			
5	8QAM	12	7	18.25	18.31	18.29	18.26			
5	8QAM	12	13	18.18	18.27	18.20	18.18			
5	8QAM	25	0	18.35	18.35	18.24	18.30	18	2	
5	25QAM	1	0	18.41	18.35	18.31	18.32			
5	25QAM	1	12	18.25	18.30	18.28	18.21			
5	25QAM	1	24	18.17	18.24	18.20	18.18			
5	25QAM	12	0	18.04	18.11	18.08	18.08	18	2	
5	25QAM	12	7	18.00	18.01	18.03	18.03	18	2	





Band 2 Ant2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.20	21.13	21.19	22.6	0						
20	QPSK	1	49	20.97	21.07	21.08								
20	QPSK	1	99	21.02	21.08	20.98								
20	QPSK	50	0	21.14	21.15	21.00								
20	QPSK	50	24	20.98	21.10	20.98	22.6	0						
20	QPSK	50	50	21.10	21.12	21.10								
20	16QAM	100	0	21.12	21.21	21.06								
20	16QAM	50	0	21.02	21.02	21.06								
20	16QAM	1	49	20.97	21.09	20.96	22.6	0						
20	16QAM	1	99	20.92	20.93	21.01								
20	16QAM	50	0	21.12	21.17	21.25								
20	16QAM	50	24	20.92	21.17	20.96								
20	16QAM	50	50	21.04	21.22	20.96	22.5	0.1						
20	16QAM	100	0	21.02	21.19	21.11								
20	64QAM	1	0	21.24	21.25	21.18								
20	64QAM	1	49	21.09	21.12	21.08								
20	64QAM	1	99	21.10	21.10	21.02	22.5	0.1						
20	64QAM	50	0	19.85	20.01	19.79								
20	64QAM	50	24	19.94	20.03	19.75								
20	64QAM	100	0	19.74	20.16	19.83								
20	256QAM	1	49	18.08	18.02	17.83	19.5	3.1						
20	256QAM	1	99	18.12	18.06	18.15								
20	256QAM	50	0	17.86	18.09	18.01								
20	256QAM	50	24	17.95	17.91	17.92								
20	256QAM	50	50	17.81	18.01	18.08	19.5	3.1						
20	256QAM	100	0	17.85	18.05	18.15								
Channel														
Frequency (MHz)														
16	QPSK	1	0	21.17	21.23	21.07	22.6	0						
16	QPSK	1	37	20.89	21.11	20.96								
16	QPSK	1	74	20.97	21.06	20.92								
16	QPSK	36	0	21.06	21.08	20.98								
16	QPSK	36	39	21.02	21.03	21.00	22.6	0						
16	QPSK	36	39	21.05	20.99	20.97								
16	QPSK	75	0	21.01	21.13	21.01								
16	16QAM	1	0	20.96	21.01	20.95								
16	16QAM	1	37	20.94	20.97	20.88	22.6	0						
16	16QAM	1	74	20.92	21.02	20.94								
16	16QAM	36	0	21.04	20.98	21.19								
16	16QAM	36	39	20.72	21.08	20.89								
16	16QAM	36	39	21.06	21.06	20.97	22.5	0.1						
16	16QAM	75	0	20.92	21.07	21.02								
16	64QAM	1	0	21.11	21.18	21.02								
16	64QAM	1	37	20.87	20.99	20.87								
16	64QAM	1	74	20.91	21.23	21.13	21.5	1.1						
16	64QAM	36	0	19.85	19.77	19.81								
16	64QAM	36	39	19.76	19.76	19.82								
16	64QAM	36	39	19.54	19.95	19.85								
16	64QAM	75	0	19.60	19.85	19.70	19.5	3.1						
16	256QAM	1	0	17.86	17.86	17.84								
16	256QAM	1	37	18.05	17.97	17.83								
16	256QAM	1	74	18.05	17.74	17.83								
16	256QAM	36	0	17.82	17.82	17.82	19.5	3.1						
16	256QAM	36	39	17.82	17.82	17.84								
16	256QAM	36	39	17.76	17.82	18.01								
16	256QAM	75	0	17.86	17.82	17.84								
Channel														
Frequency (MHz)														
16	QPSK	1	0	21.16	21.27	21.05	22.6	0						
16	QPSK	1	25	20.89	21.13	20.98								
16	QPSK	1	49	20.96	21.04	20.96								
16	QPSK	36	0	21.04	21.07	20.96								
16	QPSK	25	12	20.91	21.07	21.02	22.6	0						
16	QPSK	25	25	21.00	21.00	20.97								
16	QPSK	50	0	20.94	20.95	21.03								
16	16QAM	1	0	20.94	20.95	21.03								
16	16QAM	1	25	20.90	20.96	20.90	22.6	0						
16	16QAM	1	49	20.82	20.96	20.88								
16	16QAM	25	0	21.04	21.05	21.11								
16	16QAM	25	12	20.96	21.02	20.78								
16	16QAM	50	0	20.97	21.03	20.98	22.5	0.1						
16	16QAM	50	24	20.90	21.06	21.02								
16	64QAM	1	0	21.12	21.07	21.02								
16	64QAM	1	24	20.82	20.93	20.84								
16	64QAM	1	49	20.94	21.17	21.02	21.5	1.1						
16	64QAM	25	0	19.79	19.87	19.75								
16	64QAM	25	12	19.85	19.94	19.81								
16	64QAM	25	25	19.55	19.94	19.81								
16	64QAM	50	0	19.52	19.88	19.75	19.5	3.1						
16	256QAM	1	0	17.78	17.82	17.85								
16	256QAM	1	25	18.04	17.80	17.79								
16	256QAM	25	0	17.79	17.83	17.77								
16	256QAM	25	12	17.81	17.76	17.81	19.5	3.1						
16	256QAM	25	25	17.67	17.87	18.03								
16	256QAM	50	0	17.81	18.02	17.83								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.06	21.26	21.10	22.6	0						
5	QPSK	1	12	20.86	21.05	20.96								
5	QPSK	1	24	20.92	21.03	20.96								
5	QPSK	12	0	21.06	21.10	20.98								
5	QPSK	12	7	20.97	21.05	20.91	22.6	0						
5	QPSK	12	13	21.06	21.01	21.07								
5	QPSK	25	0	21.08	21.17	21.01								
5	16QAM	1	0	20.95	20.99	20.96								
5	16QAM	1	12	20.84	21.04	20.92	22.6	0						
5	16QAM	1	24	20.78	20.93	20.86								
5	16QAM	12	0	20.95	21.04	20.96								
5	16QAM	12	7	20.65	20.82	20.79								
5	16QAM	12	13	20.89	21.02	20.83	22.5	0.1						
5	16QAM	25	0	20.80	21.11	21.04								
5	64QAM	1	0	21.12	21.06	21.02								
5	64QAM	1	12	20.83	20.85	20.89								
5	64QAM	1	24	20.89	21.10	21.17	21.5	1.1						
5	64QAM	12	0	19.67	19.90	19.68								
5	64QAM	12	7	19.78	19.90	19.68								
5	64QAM	12	13	19.61	19.85	19.76								
5	64QAM	25	0	19.67	19.91	19.73	19.5	3.1						
5	256QAM	1	0	17.83	17.83	17.82								
5	256QAM	1	12	17.90	17.85	17.74								
5	256QAM	1	24	17.99	17.84	17.94								
5	256QAM	12	0	17.82	17.84	17.88	19.5	3.1						
5	256QAM	12	7	17.85	17.79	17.85								
5	256QAM	12	13	17.85	17.79	17.85	19.5	3.1						
5	256QAM	25	0	17.81	18.02	18.03								
Channel														
Frequency (MHz)														
3	QPSK	1	0	21.06	21.26	21.10	22.6	0						
3	QPSK	1	4	20.91	21.13	20.97								
3	QPSK	1	8	20.97	21.05	20.98								
3	QPSK	8	0	21.08	21.08	20.90								
3	QPSK	8	4	20.86	21.05	20.96	22.6	0						
3	QPSK	8	8	21.04	21.03	21.04								
3	QPSK	16	0	21.03	21.14	21.00								
3	16QAM	1	0	20.98	21.03	20.98								
3	16QAM	1	4	20.89	21.03	20.93	22.6	0						
3	16QAM	1	8	20.79	20.86	20.96								
3	16QAM	8	0	21.14	21.14	21.04								
3	16QAM	8	4	20.92	21.00	20.77								
3	16QAM	8	7	20.84	20.99	20.86	22.5	0.1						
3	16QAM	16	0	20.87	21.07	20.91								
3	16QAM	16	4	21.08	21.08	21.06								
3	64QAM	1	0	20.99	21.08	20.98								
3	64QAM	1	8	20.99	21.08	20.98	22.5	0.1						
3	64QAM	8	0	19.80	19.76	19.82								
3	64QAM	8	4	19.82	19.95	19.84								
3	64QAM	8	7	19.61	19.85	19.76								
3	64QAM	16	0	19.52	19.91	19.89	21.5	1.1						
3	256QAM	1	0	18.03	18.12	18.02								
3	256QAM	1	8	17.97	17.83	17.78								
3	256QAM	1	16	18.08	17.81	18.00								
3	256QAM	8	0	17.76	17.83	17.78	19.5	3.1						
3	256QAM	8	4	17.79	17.77	17.79								
3	256QAM	8	7	17.83	17.85	17.86								
3	256QAM	16	0	17.86	18.10	18.02								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	21.19	21.19	21.08	22.6	0						
1.4	QPSK	1	0	20.98	21.08	20.98								
1.4	QPSK	1	0	20.92	21.01	20.93								
1.4	QPSK	3	0	21.12	21.08	20.98								
1.4	QPSK	3	0	20.98	21.08	20.98	22.6	0						
1.4	QPSK	3	3	21.05	21.04	20.98								
1.4	QPSK	6	0	21.11	21.26	21.07								
1.4	QPSK	6	3	20.97	21.10	20.97								
1.4	QPSK	1	3	21.18	21.25	21.08	22.6	0						
1.4	QPSK	1	6	20.90	21.16	20.91								
1.4	QPSK	3	0	21.12	21.10	20.97								
1.4	QPSK	3	3	20.85	21.04	20.97								
1.4	QPSK	1	0	20.85	21.04	20.97	22.5	0.1						
1.4	QPSK	1	3	20.99	21.12	21.04								
1.4	QPSK	3	0	20.91	21.03	21.00								
1.4	QPSK	3	3	20.87	21.01	20.95								
1.4	QPSK	3	0	20.81	20.82	20.85	21.5	1.1						
1.4	QPSK	6	0	19.60	19.84	19.86								
1.4	QPSK	6	3	19.53	19.83	19.83								
1.4	QPSK	6	6	19.55	19.81	19.75								
1.4	QPSK	1	6	17.97	17.74	17.86	19.5	3.1						
1.4	QPSK	1	12	17.96	17.86	17.88								
1.4	QPSK	3	0	17.84	17.87	17.85								
1.4	QPSK	3	3	17.62										

Band 25 Ant2																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. (dBm)	Power Middle Ch / Freq. (dBm)	Power High Ch / Freq. (dBm)	Turn-up time (s)	MPE (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	21.27	21.40	21.24	22.6	0								
20	QPSK	1	49	21.08	21.26	21.06										
20	QPSK	1	99	21.15	21.17	21.01										
20	QPSK	50	0	21.18	21.23	21.12										
20	QPSK	50	24	21.02	21.14	21.08	22.6	0								
20	QPSK	50	50	21.20	21.20	21.13										
20	QPSK	100	0	21.22	21.27	21.11										
20	16QAM	1	0	21.15	21.22	21.16										
20	16QAM	1	49	21.11	21.14	21.05	22.6	0								
20	16QAM	1	99	21.02	21.07	21.06										
20	16QAM	50	0	21.19	21.09	21.05										
20	16QAM	50	24	20.99	21.13	20.95										
20	16QAM	50	50	21.07	21.06	20.94	22.5	0.1								
20	16QAM	100	0	21.10	21.12	20.99										
20	64QAM	1	0	21.14	21.23	21.15										
20	64QAM	1	49	21.09	21.28	21.05										
20	64QAM	15	99	21.03	21.16	21.03	21.5	1.1								
20	64QAM	50	0	20.15	20.14	20.11										
20	64QAM	50	24	19.90	20.16	19.90										
20	64QAM	100	0	20.13	20.12	19.99										
20	256QAM	1	0	18.32	18.22	18.07	19.5	3.1								
20	256QAM	1	49	18.05	18.20	18.00										
20	256QAM	1	99	17.87	18.08	17.87										
20	256QAM	50	0	17.98	18.08	17.85										
20	256QAM	50	24	17.99	18.04	18.00	19.5	3.1								
20	256QAM	50	50	17.88	18.06	17.89										
20	256QAM	100	0	17.90	18.07	17.89										
Channel																
Frequency (MHz)																
15	QPSK	1	0	18.57	18.60	18.57	22.6	0								
15	QPSK	1	37	21.16	21.36	21.12										
15	QPSK	1	74	21.04	21.13	20.93										
15	QPSK	36	0	21.14	21.16	21.03										
15	QPSK	36	36	21.02	21.05	21.00	22.6	0								
15	QPSK	36	36	21.16	21.12	21.07										
15	QPSK	75	0	21.09	21.16	21.07										
15	16QAM	1	0	21.04	21.16	21.03										
15	16QAM	1	37	20.98	21.10	21.01	22.6	0								
15	16QAM	1	74	20.92	21.02	20.97										
15	16QAM	36	0	20.92	20.84	20.82										
15	16QAM	36	20	20.75	21.09	20.91										
15	16QAM	36	20	20.93	20.90	20.84	22.5	0.1								
15	16QAM	75	0	20.91	20.90	20.84										
15	64QAM	1	0	20.87	20.98	20.96										
15	64QAM	1	37	20.79	20.92	20.87										
15	64QAM	1	74	20.95	20.95	20.81	21.5	1.1								
15	64QAM	36	0	20.08	19.98	19.98										
15	64QAM	36	20	19.76	19.99	19.82										
15	64QAM	36	36	19.90	20.05	19.76										
15	64QAM	75	0	20.01	19.86	19.76	19.5	3.1								
15	256QAM	1	0	17.79	17.83	17.80										
15	256QAM	1	37	17.75	17.84	17.82										
15	256QAM	36	0	17.84	17.86	17.86										
15	256QAM	36	20	17.80	17.84	17.77	19.5	3.1								
15	256QAM	36	36	17.74	18.05	17.73										
15	256QAM	75	0	17.76	17.82	17.83										
15	256QAM	75	0	17.76	17.82	17.83										
Channel																
Frequency (MHz)																
10	QPSK	1	0	20.93	20.94	20.94	22.6	0								
10	QPSK	1	25	20.98	21.22	21.03										
10	QPSK	1	49	21.03	21.13	20.92										
10	QPSK	25	0	21.06	21.20	21.06										
10	QPSK	25	12	20.91	21.08	21.03	22.6	0								
10	QPSK	25	25	21.16	21.10	21.01										
10	16QAM	1	0	21.05	21.16	21.04										
10	16QAM	1	0	21.02	21.14	21.06										
10	16QAM	1	25	21.02	21.04	20.99	22.6	0								
10	16QAM	1	49	20.98	21.01	20.90										
10	16QAM	25	0	20.97	21.08	20.90										
10	16QAM	25	12	20.96	20.88	20.93										
10	16QAM	25	12	21.03	20.98	20.70	22.5	0.1								
10	16QAM	50	0	20.85	20.98	20.74										
10	64QAM	1	0	20.90	21.20	21.11										
10	64QAM	1	25	20.94	21.19	20.88										
10	64QAM	1	49	20.98	21.02	20.98	21.5	1.1								
10	64QAM	25	0	19.99	20.21	19.87										
10	64QAM	25	12	19.86	20.21	19.75										
10	64QAM	25	25	19.76	20.03	19.68										
10	64QAM	50	0	19.98	19.97	19.94	19.5	3.1								
10	256QAM	1	0	18.11	18.15	18.05										
10	256QAM	1	25	17.99	18.03	17.75										
10	256QAM	1	49	17.82	17.95	17.73										
10	256QAM	25	0	17.82	17.87	17.87	19.5	3.1								
10	256QAM	25	12	17.83	17.77	17.84										
10	256QAM	25	25	17.82	17.88	17.81										
10	256QAM	50	0	17.86	17.82	18.02										
Channel																
Frequency (MHz)																
5	QPSK	1	0	21.51	21.52	21.47	22.6	0								
5	QPSK	1	12	21.01	21.19	20.95										
5	QPSK	1	24	21.12	21.11	20.98										
5	QPSK	12	0	21.15	21.09	21.06										
5	QPSK	12	7	20.95	21.00	21.02	22.6	0								
5	QPSK	12	13	21.11	21.08	21.05										
5	16QAM	1	0	21.12	21.14	21.02										
5	16QAM	1	0	21.05	21.10	21.08										
5	16QAM	1	12	21.05	21.05	21.02	22.6	0								
5	16QAM	1	24	20.92	20.97	20.95										
5	16QAM	12	0	21.05	20.98	20.95										
5	16QAM	12	7	20.89	21.08	20.77										
5	16QAM	12	13	20.83	20.87	20.81	22.5	0.1								
5	16QAM	25	0	20.91	20.90	20.84										
5	64QAM	1	0	20.97	21.19	20.97										
5	64QAM	1	12	20.89	21.08	20.92										
5	64QAM	1					22.5	0.1								
5	64QAM	24	20.90	21.09	20.94											
5	64QAM	12	13	20.86	20.92	20.84										
5	64QAM	25	0	19.98	20.02	19.84										
5	64QAM	25	13	19.82	20.04	19.79	21.5	1.1								
5	64QAM	25	25	19.74	19.94	19.70										
5	64QAM	50	0	19.93	19.93	19.93										
5	64QAM	50	0	19.93	19.93	19.93										
5	64QAM	50	0	19.93	19.93	19.93	19.5	3.1								
5	64QAM	1	0	18.13	18.11	17.91										
5	64QAM	1	12	18.04	18.04	17.84										
5	64QAM	1	24	17.71	17.83	17.71										
5	256QAM	12	0	17.94	17.82	17.86	19.5	3.1								
5	256QAM	12	7	17.86	17.78	17.82										
5	256QAM	12	13	17.87	17.89	17.81										
5	256QAM	25	0	17.94	18.00	17.82										
Channel																
Frequency (MHz)																
3	QPSK	1	0	21.26	21.37	21.21	22.6	0								
3	QPSK	1	12	21.01	21.19	20.95										
3	QPSK	1	14	21.12	21.07	20.98										
3	QPSK	8	0	21.11	21.18	21.08										
3	QPSK	8	8	21.06	21.09	21.05	22.6	0								
3	QPSK	8	8	21.06	21.09	21.05										
3	16QAM	1	0	21.15	21.24	20.99										
3	16QAM	1	12	21.08	21.18	21.04										
3	16QAM	1	8	21.09	21.08	20.95	22.6	0								
3	16QAM	1	14	20.96	21.01	20.98										
3	16QAM	8	0	21.02	21.03	20.93										
3	16QAM	8	4	20.92	20.93	20.93										
3	16QAM	8	7	20.94	20.99	20.75	22.5	0.1								
3	16QAM	8	7	21.05	20.97	20.91										
3	64QAM	1	0	21.07	21.01	20.96										
3	64QAM	1	8	21.00	21.22	20.93										
3	64QAM	8	0	19.85	20.02	19.80	21.5	1.1								
3	64QAM	8	4	19.78	20.02	19.83										
3	64QAM	8	7	19.79	19.93	19.79										
3	64QAM	16	0	20.09	19.98	19.79										
3	256QAM	1	0	17.86	18.00	17.83	19.5	3.1								
3	256QAM	1	8	17.81	17.89	17.81										
3	256QAM	1	14	17.80	17.82	17.82										
3	256QAM	8	0	17.82	17.86	17.84										
3	256QAM	8	4	17.94	17.94	17.79	19.5	3.1								
3	256QAM	8	7	17.84	17.89	17.73										
3	256QAM	8	7	17.84	17.89	17.73										
3	256QAM	16	0	17.86	17.86	17.86										
Channel																
Frequency (MHz)																
1.4	QPSK	1	0	21.20	21.37	21.19	22.6	0								
1.4	QPSK	1	12	21.02	21.19	20.93										
1.4	QPSK	1	8	21.10	21.13	20.93										
1.4	QPSK	3	0	21.00	21.07	21.04										
1.4	QPSK	3	3	21.12	21.11	20.93	22.6	0								
1.4	QPSK	3	3	21.12	21.11	20.93										
1.4	16QAM	1	0	21.02	21.11	21.01										
1.4	16QAM	1	3	21.13	21.07	21.07										
1.4	16QAM	1	12	21.05	21.05	20.92	22.6	0								
1.4	16QAM	3	0	21.12	21.10	21.13										
1.4	16QAM	3	3	21.05	21.01	20.97										
1.4	16QAM	6	0	20.93	20.93	20.86										
1.4	16QAM	6	3	21.06	21.09	20.91	22.5	0.1								
1.4	16QAM	6	3	21.06	21.09	20.91										
1.4	16QAM	6	6	20.87	20.89	20.73										
1.4	16QAM	6	6	19.92	20.03	19.85										
1.4	16QAM	6	6	18.01	17.99	17.88	21.5	1.1								
1.4	16QAM	6	3	17.89	18.10	17.84										

Band 38 Ant2									
BRF (MHz)	Modulation	RB Size	RF Offset	Power Level Ch1 / Ch2 / Freq	Power Level Ch1 / Ch2 / Freq	Power Level Ch1 / Ch2 / Freq	Turn-up time (min)	MPE (dB)	
Frequency (MHz)				37860	38060	38160			
20	QPSK	1	0	20.12	20.25	20.63			
20	QPSK	1	-49	20.32	20.59	20.63	21.3	0	
20	QPSK	1	50	20.42	20.59	20.54			
20	QPSK	50	0	20.33	20.34	20.40			
20	QPSK	50	-24	20.29	20.34	20.34	21.3	0	
20	QPSK	50	24	20.27	20.34	20.29			
20	QPSK	100	0	20.40	20.45	20.50			
20	16QAM	1	0	20.29	20.31	20.26			
20	16QAM	1	-49	20.23	20.31	20.23	21.3	0	
20	16QAM	1	50	20.21	20.22	20.27			
20	16QAM	50	0	19.24	19.30	19.34			
20	16QAM	50	-24	19.34	19.34	19.27	21	0.3	
20	16QAM	50	24	19.34	19.23	19.23			
20	16QAM	100	0	19.27	19.36	19.30			
20	64QAM	1	0	19.33	19.36	19.37			
20	64QAM	1	-49	19.30	19.36	19.32	21	0.3	
20	64QAM	1	50	19.30	19.32	19.33			
20	64QAM	50	0	18.36	18.39	18.25			
20	64QAM	50	-24	18.20	18.32	18.23	20	1.3	
20	64QAM	50	24	18.31	18.23	18.23			
20	64QAM	100	0	18.20	18.38	18.32			
20	256QAM	1	0	16.23	16.33	16.31			
20	256QAM	1	-49	16.29	16.23	16.23	18	3.3	
20	256QAM	1	50	16.27	16.31	16.20			
20	256QAM	50	0	16.26	16.32	16.24			
20	256QAM	50	-24	16.23	16.34	16.25	18	3.3	
20	256QAM	50	24	16.31	16.23	16.25			
Channel				37860	38060	38170	Turn-up time (min)	MPE (dB)	
Frequency (MHz)				20.12	20.45	20.12			
5	QPSK	1	0	20.29	20.69	20.69			
5	QPSK	1	-47	20.30	20.47	20.59	21.3	0	
5	QPSK	1	50	20.31	20.59	20.41			
5	QPSK	50	0	20.25	20.44	20.32			
5	QPSK	50	-24	20.21	20.25	20.24	21.3	0	
5	QPSK	50	24	20.21	20.33	20.17			
5	QPSK	75	0	20.28	20.44	20.19			
5	16QAM	1	0	20.23	20.26	20.21			
5	16QAM	1	-49	20.23	20.23	20.08	21.3	0	
5	16QAM	1	50	20.12	20.16	20.20			
5	16QAM	50	0	19.18	19.21	19.28			
5	16QAM	50	-24	19.19	19.22	19.11	21	0.3	
5	16QAM	50	24	19.05	19.22	19.15			
5	16QAM	75	0	19.15	19.22	19.15			
5	64QAM	1	0	19.29	19.33	19.23			
5	64QAM	1	-37	19.18	19.31	19.27	21	0.3	
5	64QAM	1	54	19.16	19.26	19.22			
5	64QAM	36	0	18.25	18.31	18.18			
5	64QAM	36	-20	18.14	18.21	18.10	20	1.3	
5	64QAM	36	20	18.20	18.21	18.13			
5	256QAM	1	0	16.18	16.22	16.21			
5	256QAM	1	-37	16.23	16.18	16.15	18	3.3	
5	256QAM	1	54	16.23	16.18	16.18			
5	256QAM	36	0	16.11	16.22	16.15	18	3.3	
5	256QAM	36	-20	16.14	16.26	16.21			
5	256QAM	36	20	16.14	16.26	16.15	18	3.3	
5	256QAM	50	0	16.19	16.28	16.24			
Channel				37770	38060	38220	Turn-up time (min)	MPE (dB)	
Frequency (MHz)				20.16	20.49	20.16			
5	QPSK	1	0	20.26	20.67	20.67			
5	QPSK	1	-52	20.26	20.50	20.54	21.3	0	
5	QPSK	1	54	20.26	20.50	20.48			
5	QPSK	25	0	20.24	20.44	20.32			
5	QPSK	25	-12	20.17	20.30	20.22	21.3	0	
5	QPSK	25	12	20.17	20.32	20.22			
5	QPSK	50	0	20.35	20.36	20.34			
5	16QAM	1	0	20.20	20.23	20.19			
5	16QAM	1	-49	20.20	20.20	20.05	21.3	0	
5	16QAM	1	50	20.11	20.17	20.19			
5	16QAM	25	0	19.18	19.22	19.26			
5	16QAM	25	-12	19.15	19.24	19.16	21	0.3	
5	16QAM	25	12	19.05	19.16	19.18			
5	64QAM	1	0	19.15	19.32	19.23			
5	64QAM	1	0	19.27	19.37	19.29			
5	64QAM	1	-25	19.26	19.25	19.28	21	0.3	
5	64QAM	1	49	19.26	19.23	19.21			
5	64QAM	25	0	18.32	18.33	18.19			
5	64QAM	25	-12	18.16	18.20	18.16	20	1.3	
5	64QAM	25	12	18.16	18.20	18.16			
5	64QAM	50	0	18.25	18.33	18.23			
5	64QAM	50	-12	18.13	18.24	18.24			
5	256QAM	1	0	16.25	16.28	16.18	18	3.3	
5	256QAM	1	-49	16.19	16.28	16.18			
5	256QAM	25	0	16.15	16.26	16.21			
5	256QAM	25	-12	16.10	16.26	16.20	18	3.3	
5	256QAM	25	12	16.10	16.26	16.21			
5	256QAM	50	0	16.16	16.28	16.16			
Channel				37770	38060	38220	Turn-up time (min)	MPE (dB)	
Frequency (MHz)				20.16	20.49	20.16			
5	QPSK	1	0	20.26	20.67	20.67			
5	QPSK	1	-52	20.26	20.50	20.54	21.3	0	
5	QPSK	1	54	20.26	20.50	20.48			
5	QPSK	12	0	20.26	20.44	20.36			
5	QPSK	12	-7	20.24	20.25	20.23	21.3	0	
5	QPSK	12	7	20.24	20.25	20.23			
5	QPSK	25	0	20.29	20.37	20.23			
5	QPSK	25	-1	20.26	20.22	20.26	21.3	0	
5	QPSK	25	1	20.27	20.28	20.14			
5	16QAM	1	0	20.14	20.14	20.14			
5	16QAM	1	-24	20.14	20.14	20.22	21	0.3	
5	16QAM	1	24	20.14	20.14	20.14			
5	16QAM	12	7	19.07	19.30	19.15	20	0.3	
5	16QAM	12	-13	19.07	19.24	19.20			
5	64QAM	1	0	19.23	19.26	19.20			
5	64QAM	1	0	19.26	19.35	19.21	21	0.3	
5	64QAM	1	-12	19.17	19.28	19.19			
5	64QAM	1	24	19.17	19.28	19.20			
5	64QAM	12	7	18.18	18.18	18.14	20	1.3	
5	64QAM	12	-13	18.18	18.18	18.14			
5	64QAM	25	0	18.20	18.25	18.29			
5	64QAM	25	-12	18.16	18.22	18.23	18	3.3	
5	256QAM	1	0	16.23	16.33	16.30			
5	256QAM	1	-24	16.18	16.33	16.17			
5	256QAM	12	0	16.28	16.29	16.23			
5	256QAM	12	-7	16.15	16.28	16.20	18	3.3	
5	256QAM	12	7	16.15	16.28	16.20			
5	256QAM	25	0	16.15	16.23	16.20			

Band 41 Ant2											
RF [MHz]	Modulation	RB Size	RB Offset	Power Level Ch. 1 / 2	Power Level Ch. 3 / 4	Power Level Ch. 5 / 6	Power Level Ch. 7 / 8	Power Level Ch. 9 / 10	Power Level Ch. 11 / 12	Time-up limit (sec)	MFR (dB)
Channel											
20	QPSK	1	0	89789	43185	40600	41005	41480			
20	QPSK	1	5	20.54	20.58	20.71	20.74	20.58			
20	QPSK	1	49	20.54	20.42	20.73	20.70	20.48		21.3	0
20	QPSK	50	0	20.54	20.49	20.64	20.67	20.44			
20	QPSK	50	50	20.54	20.46	20.64	20.64	20.43			
20	QPSK	50	24	20.48	20.41	20.67	20.58	20.48		21.3	0
20	QPSK	100	0	20.52	20.45	20.66	20.67	20.45			
20	QPSK	100	0	20.51	20.00	20.71	20.58	20.48			
20	QPSK	100	50	20.52	20.46	20.69	20.67	20.46		21.3	0
20	QPSK	50	0	20.58	20.52	20.76	20.75	20.54			
20	QPSK	50	24	20.53	20.28	20.64	20.53	20.40		21.3	0
20	QPSK	50	50	20.37	20.35	20.45	20.50	20.26			
20	QPSK	100	0	20.39	20.49	20.64	20.67	20.44			
20	QPSK	100	0	20.38	20.44	20.64	20.64	20.45			
20	QPSK	1	49	20.47	20.38	20.61	20.62	20.37		21.3	0
20	QPSK	1	5	20.52	20.38	20.42	20.42	20.24			
20	QPSK	50	0	20.52	20.55	20.74	20.55	20.55			
20	QPSK	50	24	20.37	20.33	20.59	20.50	20.38		21.3	0
20	QPSK	50	50	20.38	20.42	20.58	20.58	20.34			
20	QPSK	100	0	20.48	20.54	20.67	20.54	20.41			
20	25QAM	1	0	18.14	18.19	18.31	18.11	18.08			
20	25QAM	1	49	17.89	17.93	18.35	18.35	17.91		19.5	1.8
20	25QAM	1	59	17.88	18.06	18.06	18.16	17.87			
20	25QAM	50	0	17.89	17.93	18.35	18.35	17.91			
20	25QAM	50	24	17.85	17.85	18.16	18.08	17.85		19.5	1.8
20	25QAM	50	50	18.05	18.08	18.05	17.88	17.87			
20	25QAM	100	0	17.89	18.13	18.35	18.35	17.86			
Channel											
20	QPSK	1	0	89779	43173	40600	41005	41515			
20	QPSK	1	5	20.54	20.43	20.73	20.73	20.43			
20	QPSK	1	39	20.47	20.39	20.68	20.68	20.42		21	0
20	QPSK	1	74	20.21	20.41	20.68	20.68	20.41			
20	QPSK	50	0	20.52	20.45	20.74	20.65	20.50			
20	QPSK	50	20	20.34	20.30	20.58	20.51	20.34		21.3	0
20	QPSK	50	50	20.34	20.30	20.58	20.51	20.43			
20	QPSK	75	0	20.43	20.52	20.65	20.47	20.45			
20	QPSK	1	0	20.38	20.58	20.59	20.59	20.37			
20	QPSK	1	50	20.38	20.55	20.59	20.59	20.38		21.3	0
20	QPSK	1	74	20.09	20.30	20.50	20.41	20.18			
20	QPSK	26	0	20.42	20.58	20.71	20.68	20.42		21.3	0
20	QPSK	26	20	20.20	20.21	20.35	20.44	20.20			
20	QPSK	50	0	20.42	20.40	20.58	20.58	20.40			
20	QPSK	50	24	20.34	20.51	20.64	20.50	20.42			
20	QPSK	1	37	20.48	20.27	20.50	20.52	20.32		21.3	0
20	QPSK	1	74	20.25	20.24	20.43	20.43	20.18			
20	QPSK	50	0	20.48	20.48	20.63	20.52	20.48			
20	QPSK	50	20	20.30	20.24	20.46	20.38	20.30		21.3	0
20	QPSK	50	50	20.30	20.24	20.46	20.38	20.25			
20	QPSK	75	0	20.43	20.52	20.59	20.46	20.33			
20	QPSK	1	0	17.77	17.86	18.01	17.86	17.78		19.5	1.8
20	25QAM	1	37	17.77	17.86	18.01	18.04	17.78			
20	25QAM	1	74	17.83	17.98	17.82	18.05	17.78			
20	25QAM	50	0	17.86	17.86	18.05	18.05	17.85			
20	25QAM	50	20	17.82	17.86	18.00	17.75	17.79		19.5	1.8
20	25QAM	50	50	17.91	17.84	17.82	17.78	17.87			
20	25QAM	100	0	17.73	17.93	18.01	18.01	17.80			
Channel											
20	QPSK	1	0	89789	43185	40600	41005	41560			
20	QPSK	1	5	20.54	20.43	20.73	20.73	20.43			
20	QPSK	1	29	20.41	20.29	20.64	20.67	20.38		21	0
20	QPSK	50	0	20.52	20.45	20.69	20.65	20.44			
20	QPSK	50	26	20.43	20.63	20.69	20.52	20.53			
20	QPSK	25	12	20.43	20.38	20.63	20.47	20.33		21.3	0
20	QPSK	25	38	20.43	20.38	20.63	20.47	20.38			
20	QPSK	50	0	20.48	20.55	20.61	20.44	20.37			
20	QPSK	1	0	20.44	20.57	20.67	20.62	20.38			
20	QPSK	1	29	20.43	20.35	20.64	20.49	20.29		21.3	0
20	QPSK	1	49	20.18	20.36	20.58	20.46	20.18			
20	QPSK	26	0	20.53	20.55	20.73	20.67	20.49			
20	QPSK	26	20	20.43	20.43	20.64	20.43	20.31		21.3	0
20	QPSK	25	26	20.34	20.24	20.53	20.41	20.26			
20	QPSK	25	38	20.34	20.24	20.53	20.41	20.35			
20	QPSK	50	0	20.48	20.50	20.60	20.57	20.38		21.3	0
20	QPSK	1	29	20.35	20.29	20.63	20.50	20.25			
20	QPSK	1	49	20.19	20.27	20.48	20.48	20.18			
20	QPSK	25	0	20.45	20.46	20.64	20.42	20.35			
20	QPSK	25	12	20.28	20.27	20.46	20.45	20.33		21.3	0
20	QPSK	25	38	20.27	20.28	20.46	20.45	20.19			
20	QPSK	50	0	20.48	20.43	20.60	20.48	20.37			
20	QPSK	50	26	20.48	20.51	20.61	20.47	20.40			
20	25QAM	1	29	17.94	17.91	18.04	18.07	17.78		19.5	1.8
20	25QAM	1	49	17.84	17.88	17.86	18.06	17.76			
20	25QAM	50	0	17.86	18.01	18.04	18.04	17.85			
20	25QAM	25	12	17.72	17.82	17.67	17.86	17.70		19.5	1.8
20	25QAM	25	38	17.86	17.85	18.01	17.76	17.89			
20	25QAM	50	0	17.86	18.01	18.04	18.04	17.85			
Channel											
20	QPSK	1	0	89679	43146	40600	41005	41569			
20	QPSK	1	5	20.54	20.68	20.67	20.74	20.68			
5	QPSK	1	12	20.43	20.29	20.69	20.58	20.34		21	0
5	QPSK	12	0	20.53	20.30	20.64	20.50	20.43			
5	QPSK	12	0	20.57	20.66	20.66	20.50	20.50			
5	QPSK	12	7	20.33	20.29	20.64	20.50	20.38			
5	QPSK	12	13	20.31	20.27	20.42	20.30	20.30			
5	QPSK	25	0	20.41	20.52	20.63	20.47	20.40			
5	QPSK	1	0	20.49	20.60	20.65	20.58	20.43			
5	QPSK	1	12	20.42	20.30	20.64	20.49	20.31		21.3	0
5	QPSK	1	24	20.43	20.43	20.58	20.44	20.43			
5	QPSK	12	0	20.48	20.57	20.64	20.44	20.44			
5	QPSK	12	0	20.25	20.16	20.59	20.43	20.33		21.3	0
5	QPSK	12	13	20.28	20.27	20.37	20.37	20.21			
5	QPSK	1	0	20.49	20.41	20.58	20.41	20.33			
5	QPSK	1	12	20.50	20.56	20.64	20.52	20.33			
5	QPSK	1	12	20.36	20.52	20.48	20.57	20.22		21.3	0
5	QPSK	1	24	20.19	20.27	20.38	20.38	20.18			
5	QPSK	12	0	20.42	20.52	20.67	20.44	20.46			
5	QPSK	12	7	20.32	20.24	20.55	20.41	20.31			
5	QPSK	12	13	20.39	20.38	20.55	20.41	20.17		21.3	0
5	QPSK	25	0	20.41	20.43	20.55	20.46	20.37			
5	25QAM	1	12	18.33	18.12	18.35	18.12	18.12			
5	25QAM	1	24	17.75	17.35	18.16	18.01	17.78		19.5	1.8
5	25QAM	1	49	17.80	17.80	17.84	17.81	17.71			
5	25QAM	12	0	17.82	18.14	18.08	18.08	17.82			
5	25QAM	12	7	17.75	17.71	17.99	17.87	17.79			
5	25QAM	12	13	17.82	17.80	17.86	17.87	17.78		19.5	1.8

Band 41 HPUE Ant2												
BW [MHz]	Modulation	RIS Size	RIS Offset	Power [mW] Ch 1/Freq	Power [mW] Ch 2/Freq	Power [mW] Ch 3/Freq	Power [mW] Ch 4/Freq	Power [mW] Ch 5/Freq	Power [mW] Ch 6/Freq	Turn-on time (dBm)	MPE (dB)	
Channel												
Frequency [MHz]												
20	QPSK	0	0	22.28	22.32	22.32	22.32	22.32	22.32			
20	QPSK	1	49	22.15	22.08	22.28	22.34	22.21	22.11	22.9	0	
20	QPSK	50	19	21.89	22.02	22.18	22.18	22.16	22.06			
20	QPSK	50	19	22.11	22.25	22.25	22.25	22.25	22.25			
20	QPSK	50	24	22.03	21.96	22.31	22.22	22.17	22.07	22.9	0	
20	QPSK	100	0	22.03	22.03	22.03	22.03	22.03	22.03			
20	QPSK	100	0	22.15	22.19	22.15	22.15	22.19	22.09			
20	16QAM	1	0	22.09	22.21	22.28	22.29	22.31	22.31	22.9	0	
20	16QAM	1	49	22.03	21.93	22.33	22.24	22.19	22.04			
20	16QAM	1	99	21.81	22.01	22.18	22.14	22.14	21.84			
20	16QAM	50	0	22.12	22.25	22.32	22.08	22.12	22.02			
20	16QAM	50	24	21.99	21.87	22.31	22.22	22.17	22.07	22.9	0	
20	16QAM	50	24	22.00	21.98	22.11	22.14	22.10				
20	16QAM	100	0	22.04	22.09	22.29	22.10	22.09				
20	16QAM	100	0	22.13	22.28	22.28	22.13	22.04				
20	64QAM	1	49	22.08	21.96	22.26	22.20	22.02	21.92	22.9	0	
20	64QAM	1	99	21.84	21.94	22.17	22.17	22.17	21.76			
20	64QAM	50	0	22.05	22.15	22.30	22.14	22.12				
20	64QAM	50	24	21.93	21.95	22.14	22.07	21.96		22.9	0	
20	64QAM	50	24	21.93	22.05	22.15	22.08	22.08				
20	64QAM	100	0	22.11	22.15	22.24	22.13	22.00				
20	256QAM	1	0	21.32	21.49	21.52	21.35	21.38		22.5	0.4	
20	256QAM	1	49	21.37	21.41	21.52	21.37	21.38				
20	256QAM	1	99	21.24	21.22	21.34	21.28	21.38				
20	256QAM	50	0	21.32	21.35	21.45	21.30	21.31				
20	256QAM	50	24	21.32	21.25	21.17	21.15	21.06				
20	256QAM	50	24	21.42	21.32	21.49	21.14	21.23				
20	256QAM	100	0	21.43	21.43	21.43	21.43	21.43				
Channel												
Frequency [MHz]												
15	QPSK	1	37	22.18	22.24	22.32	22.32	22.32	22.12			
15	QPSK	1	37	22.11	21.98	22.24	22.20	22.19	21.9	23	0	
15	QPSK	74	0	21.80	22.01	22.16	22.09	21.86				
15	QPSK	74	0	22.15	22.11	22.11	22.11	22.11	22.11			
15	QPSK	36	20	21.62	21.93	22.28	22.11	21.85		22.9	0	
15	QPSK	36	20	21.62	21.93	22.28	22.11	21.85				
15	QPSK	75	0	22.07	22.11	22.28	22.15	22.07				
15	16QAM	1	0	22.05	22.08	22.21	22.17	22.07		22.9	0	
15	16QAM	1	49	22.05	22.05	22.18	22.07	22.08				
15	16QAM	1	74	21.71	21.97	22.16	22.09	21.81				
15	16QAM	36	0	22.08	22.17	22.25	22.04	22.07				
15	16QAM	36	20	21.81	21.75	22.30	22.07	21.87				
15	16QAM	36	39	21.92	21.91	22.04	22.01	21.81				
15	16QAM	75	0	22.05	22.09	22.22	22.15	22.05				
15	64QAM	1	0	22.11	22.19	22.16	22.13	22.07				
15	64QAM	1	37	21.95	22.16	22.22	22.09	21.89		22.9	0	
15	64QAM	1	74	21.81	21.94	22.11	22.04	21.86				
15	64QAM	36	0	22.01	22.02	22.16	22.07	21.99				
15	64QAM	36	20	21.86	21.91	22.08	21.98	21.84		22.9	0	
15	64QAM	36	20	21.80	22.02	22.15	22.06	21.95				
15	64QAM	75	0	22.03	22.03	22.20	22.05	21.93				
15	256QAM	1	0	21.56	21.15	21.13	21.15	21.16		22.5	0.4	
15	256QAM	1	37	21.12	21.91	21.27	21.68	21.34				
15	256QAM	1	74	21.08	21.86	21.21	21.53	21.17				
15	256QAM	36	20	21.15	21.11	21.03	20.95	21.00		22.5	0.4	
15	256QAM	36	39	21.04	21.08	21.44	20.95	20.96				
15	256QAM	75	0	21.36	21.38	21.18	21.16					
Channel												
Frequency [MHz]												
10	QPSK	0	0	22.24	22.24	22.24	22.24	22.24	22.24			
10	QPSK	1	25	22.13	21.98	22.24	22.30	22.18		23	0	
10	QPSK	25	16	21.88	22.01	22.16	22.11	22.11				
10	QPSK	25	16	22.09	22.22	22.22	22.09	22.14				
10	QPSK	25	12	22.01	21.91	22.23	22.19	21.87				
10	QPSK	50	0	22.08	22.10	22.23	22.10	22.03		22.9	0	
10	QPSK	50	0	22.03	22.07	22.30	22.04	22.00				
10	16QAM	1	0	21.97	22.17	22.21	22.16	21.94				
10	16QAM	1	49	21.98	22.01	22.19	22.19	21.89				
10	16QAM	1	49	21.71	21.87	22.07	22.03	22.16				
10	16QAM	25	0	22.00	22.15	22.28	22.02	22.05				
10	16QAM	25	12	21.86	21.78	22.06	22.01	21.85				
10	16QAM	25	25	21.96	21.85	22.05	22.01	21.85				
10	16QAM	50	0	21.98	21.96	22.10	22.03	21.88		22.9	0	
10	64QAM	1	0	22.13	22.20	22.16	22.21	21.94				
10	64QAM	1	25	22.02	21.92	22.17	22.13	21.91		22.9	0	
10	64QAM	1	49	21.85	21.84	22.06	22.02	21.86				
10	64QAM	25	0	22.00	22.05	22.16	22.05	22.05				
10	64QAM	25	12	21.83	21.87	22.11	21.96	21.83		22.9	0	
10	64QAM	25	19	21.90	21.97	22.10	22.04	21.88				
10	64QAM	50	0	22.02	22.03	22.15	22.03	21.94				
10	256QAM	1	0	21.08	21.08	21.08	21.08	21.14				
10	256QAM	1	25	21.27	21.04	21.27	21.00	21.33		22.5	0.4	
10	256QAM	1	49	21.05	21.18	21.21	21.25	21.27				
10	256QAM	1	25	21.05	21.05	21.05	21.05	21.18				
10	256QAM	25	12	21.08	21.19	21.06	21.10	21.04		22.5	0.4	
10	256QAM	25	25	21.08	21.15	21.03	20.98	21.16				
10	256QAM	50	0	21.30	21.31	21.31	21.31	21.31				
Channel												
Frequency [MHz]												
5	QPSK	0	0	22.26	22.26	22.26	22.26	22.26	22.26			
5	QPSK	1	12	22.05	21.93	22.16	22.32	22.04		23	0	
5	QPSK	12	0	21.88	22.00	22.15	22.10	22.10				
5	QPSK	12	0	22.08	22.16	22.30	22.18	22.23				
5	QPSK	12	7	21.91	21.90	22.21	22.09	21.88				
5	QPSK	25	0	22.00	22.00	22.12	22.02	22.02				
5	QPSK	25	0	22.13	22.07	22.21	22.09	21.95				
5	QPSK	1	12	22.02	22.11	22.16	22.17	22.06				
5	QPSK	1	12	21.92	21.90	22.15	22.04	21.94		22.9	0	
5	16QAM	1	24	21.70	21.94	22.14	22.07	21.70				
5	16QAM	1	12	22.01	22.06	22.11	22.06	22.07				
5	16QAM	12	7	21.81	21.76	22.15	22.03	21.89				
5	16QAM	12	13	21.88	21.90	22.06	22.06	21.88				
5	16QAM	1	0	22.00	22.04	22.16	22.06	22.06				
5	64QAM	1	0	22.11	22.21	22.14	22.11	21.95				
5	64QAM	1	12	21.99	21.88	22.21	22.09	21.86		22.9	0	
5	64QAM	1	24	21.88	21.89	22.17	22.07	21.81				
5	64QAM	12	13	21.80	21.90	22.04	22.04	21.84				
5	64QAM	25	0	22.04	22.12	22.11	22.09	21.94				
5	256QAM	1	0	21.08	21.08	21.08	21.08	21.14				
5	256QAM	1	12	21.20	21.06	21.30	21.20	21.25		22.5	0.4	
5	256QAM	1	24	21.04	21.02	21.13	21.10	21.12				
5	256QAM	1	25	21.08	21.11	21.04	21.08	21.00				
5	256QAM	12	7	21.12	21.17	21.37	20.92	20.92		20.91		
5	256QAM	12	13	21.99	21.01	21.29	20.95	20.99				
5	256QAM	12	13	21.20	21.31	21.31	21.22	21.07				



Band 48_FCC Ant2														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power Low Mod Ch / Freqs	Power High Mod Ch / Freqs	Power High Ch / Freqs	Turn-up time (dB)	MFR (dB)					
Channel				56540	56550	56150	56650							
Frequency (MHz)				56540	56550	56150	56650							
20	QPSK	1	0	19.22	19.40	19.24	19.12	21	0					
20	QPSK	1	49	19.20	19.35	19.20	19.07							
20	QPSK	1	99	19.18	19.36	19.16	19.04							
20	QPSK	50	0	19.23	19.28	19.20	19.01							
20	QPSK	50	24	19.18	19.22	19.08	19.04	21	0					
20	QPSK	50	50	19.17	19.21	19.11	19.02							
20	QPSK	100	0	19.19	19.26	19.12	19.01							
20	16QAM	1	0	19.28	19.30	19.33	19.22	21	0					
20	16QAM	1	49	19.25	19.27	19.23	19.20							
20	16QAM	1	99	19.20	19.20	19.26	19.26							
20	16QAM	50	0	19.23	19.31	19.20	19.23							
20	16QAM	50	24	19.18	19.22	19.13	19.11	21	0					
20	16QAM	50	50	19.16	19.21	19.14	19.13							
20	64QAM	100	0	19.16	19.27	19.16	19.12							
20	64QAM	1	0	19.15	19.22	19.20	19.25	21	0					
20	64QAM	1	49	19.15	19.13	19.08	19.12							
20	64QAM	1	99	19.02	19.14	19.11	19.10							
20	64QAM	50	0	19.22	19.34	19.27	19.18							
20	64QAM	50	24	19.26	19.36	19.17	19.12	20	1					
20	64QAM	50	50	19.25	19.25	19.16	19.15							
20	64QAM	100	0	19.26	19.24	19.07	19.19							
20	256QAM	1	0	19.27	19.35	19.20	19.12							
20	256QAM	1	49	19.27	19.33	19.12	19.12	18	3					
20	256QAM	1	99	19.30	19.31	19.17	19.09							
20	256QAM	50	0	19.24	19.43	19.18	19.09							
20	256QAM	50	24	19.20	19.35	19.23	19.12							
20	256QAM	50	50	19.28	19.32	19.14	19.05	18	3					
20	256QAM	100	0	19.14	19.22	19.05	19.12							
Channel				56115	56520	56160	56665							
Frequency (MHz)				56115	56520	56160	56665							
15	QPSK	1	0	19.14	19.33	19.19	19.25	21	0					
15	QPSK	1	37	19.18	19.28	19.13	19.05							
15	QPSK	1	74	19.07	19.20	19.11	19.02							
15	QPSK	86	0	19.19	19.26	19.13	19.03							
15	QPSK	86	20	19.08	19.14	19.02	19.01	21	0					
15	QPSK	75	0	19.10	19.13	19.04	19.04							
15	QPSK	75	0	19.12	19.22	19.08	19.08							
15	16QAM	1	0	19.19	19.20	19.31	19.15	21	0					
15	16QAM	1	37	19.26	19.24	19.24	19.13							
15	16QAM	1	74	19.20	19.21	19.25	19.23							
15	16QAM	58	0	19.21	19.27	19.14	19.21							
15	16QAM	86	20	19.14	19.12	19.04	19.05	21	0					
15	16QAM	86	59	19.06	19.17	19.11	19.05							
15	16QAM	75	0	19.08	19.18	19.08	19.01							
15	64QAM	1	0	19.11	19.14	19.12	19.21	21	0					
15	64QAM	1	37	19.06	19.11	19.06	19.07							
15	64QAM	1	74	19.02	19.05	19.07	19.02							
15	64QAM	86	0	19.11	19.31	19.21	19.13	20	1					
15	64QAM	86	20	19.24	19.34	19.14	19.09							
15	64QAM	86	59	19.22	19.21	19.06	19.07							
15	64QAM	75	0	19.20	19.15	19.02	19.05	18	3					
15	256QAM	1	0	19.26	19.29	19.17	19.05							
15	256QAM	1	37	19.21	19.28	19.01	19.05							
15	256QAM	1	74	19.21	19.22	19.13	19.04							
15	256QAM	86	0	19.16	19.41	19.17	19.08	18	3					
15	256QAM	86	20	19.18	19.33	19.14	19.03							
15	256QAM	86	59	19.25	19.30	19.04	19.09							
15	256QAM	86	75	19.25	19.30	19.04	19.02							
Channel				56250	56115	56160	56665							
Frequency (MHz)				56250	56115	56160	56665							
10	QPSK	1	0	19.12	19.32	19.15	19.08	21	0					
10	QPSK	1	25	19.18	19.27	19.15	19.05							
10	QPSK	1	49	19.14	19.18	19.11	19.06							
10	QPSK	25	0	19.19	19.21	19.15	19.08							
10	QPSK	25	12	19.14	19.14	19.02	19.00	21	0					
10	QPSK	25	25	19.09	19.14	19.04	19.05							
10	16QAM	1	0	19.14	19.18	19.07	19.00							
10	16QAM	1	0	19.26	19.28	19.31	19.11	21	0					
10	16QAM	1	25	19.23	19.24	19.21	19.14							
10	16QAM	1	49	19.26	19.24	19.20	19.20							
10	16QAM	25	0	19.13	19.22	19.16	19.17							
10	16QAM	25	12	19.12	19.19	19.10	19.08	21	0					
10	16QAM	25	25	19.04	19.16	19.05	19.05							
10	16QAM	50	0	19.11	19.26	19.18	19.04							
10	64QAM	1	0	19.14	19.20	19.09	19.23	21	0					
10	64QAM	1	25	19.11	19.12	19.08	19.04							
10	64QAM	1	49	19.08	19.03	19.05	19.06							
10	64QAM	25	0	19.12	19.25	19.20	19.13							
10	64QAM	25	12	19.18	19.27	19.12	19.06	20	1					
10	64QAM	25	25	19.18	19.14	19.05	19.05							
10	64QAM	50	0	19.25	19.22	19.00	19.09							
10	256QAM	1	0	19.24	19.31	19.17	19.02	18	3					
10	256QAM	1	25	19.18	19.23	19.04	19.05							
10	256QAM	1	49	19.22	19.30	19.13	19.07							
10	256QAM	25	0	19.20	19.37	19.12	19.02							
10	256QAM	25	12	19.17	19.19	19.14	19.08	18	3					
10	256QAM	25	25	19.17	19.25	19.12	19.05							
10	256QAM	50	0	19.03	19.18	19.05	19.03							
Channel				56525	56115	56160	56675							
Frequency (MHz)				56525	56115	56160	56675							
5	QPSK	1	0	19.12	19.35	19.17	19.03	21	0					
5	QPSK	1	12	19.18	19.30	19.15	19.03							
5	QPSK	1	24	19.11	19.23	19.09	19.03							
5	QPSK	12	0	19.17	19.21	19.19	19.08							
5	QPSK	12	7	19.09	19.14	19.05	19.01	21	0					
5	QPSK	12	19	19.12	19.17	19.01	19.06							
5	QPSK	25	0	19.18	19.18	19.03	19.08							
5	QPSK	1	0	19.27	19.24	19.24	19.17							
5	16QAM	1	12	19.18	19.19	19.15	19.14	21	0					
5	16QAM	1	24	19.21	19.26	19.20	19.23							
5	16QAM	12	0	19.14	19.21	19.11	19.19							
5	16QAM	12	7	19.18	19.15	19.09	19.06							
5	16QAM	12	13	19.04	19.11	19.12	19.03	21	0					
5	16QAM	1	0	19.11	19.23	19.15	19.06							
5	16QAM	1	12	19.04	19.04	19.09	19.06							
5	16QAM	1	24	19.08	19.08	19.05	19.06							
5	64QAM	12	0	19.19	19.24	19.25	19.15	20	1					
5	64QAM	1	12	19.24	19.30	19.14	19.05							
5	64QAM	12	13	19.19	19.23	19.21	19.14							
5	64QAM	25	0	19.23	19.19	19.05	19.07	18	3					
5	256QAM	1	0	19.27	19.30	19.12	19.02							
5	256QAM	1	12	19.17	19.29	19.09	19.06							
5	256QAM	1	24	19.24	19.31	19.12	19.02							
5	256QAM	12	0	19.21	19.32	19.12	19.02	18	3					
5	256QAM	12	7	19.16	19.32	19.13	19.05							
5	256QAM	12	13	19.16	19.29	19.10	19.04							
5	256QAM	25	0	19.07	19.18	19.05	19.03							
Channel				56695	56115	56160	56715							
Frequency (MHz)				56695	56115	56160	56715							



GSM1900 Airc3									
Band		Band Average Power (dBm)			Turn-up	From Average Power (dBm)			Turn-up
TS Channel	Power	1852	1861	1870	Limit	1882	1891	1900	Turn-up
Frequency (MHz)		1852.2	1861.2	1870.2	1872.8	1882.2	1891.2	1900.2	1902.8
GSM Tx Watt		30.04	30.08	30.70	32.00	21.94	21.98	21.70	23.00
GPRS 1 Tx watt		19.95	30.70	19.80	32.00	17.95	21.98	17.80	22.00
GPRS 2 Tx watt		28.73	29.88	29.85	29.50	22.73	22.88	22.85	23.00
GPRS 3 Tx watt		29.01	29.21	29.11	27.00	21.70	21.06	21.45	23.04
GPRS 4 Tx watt		24.62	24.98	24.88	26.00	21.60	21.08	21.68	23.04
EDGE 1 Tx watt		24.59	24.02	24.59	26.00	17.59	17.52	17.55	19.00
EDGE 2 Tx watt		24.86	24.01	24.82	26.00	18.86	18.91	18.62	19.00
EDGE 3 Tx watt		23.78	23.83	23.74	24.50	18.52	18.57	18.46	20.24
EDGE 4 Tx watt		21.02	21.00	21.02	22.50	18.50	18.56	18.55	19.00
WCDMA II Airc3									
Band		WCDMA II			Turn-up	WCDMA IV			Turn-up
TS Channel	Power	8832	8840	8838	Limit	8732	8738	8738	Turn-up
Frequency (MHz)		8832.4	8840	8837.6	8838	8732.4	8737.6	8737.6	8737.6
SCPP Rel 99	RAM 12.24us	20.27	20.42	20.42	22.00	21.00	21.08	21.02	22.00
SCPP Rel 99	RAM 12.24us	20.46	20.65	20.47	22.00	21.05	21.13	21.01	22.38
SCPP Rel 6	HSDPA Subcar-1	19.00	19.27	19.36	21.00	18.00	19.20	19.00	21.00
SCPP Rel 6	HSDPA Subcar-2	19.40	19.49	19.38	21.00	18.00	20.08	19.91	21.00
SCPP Rel 6	HSDPA Subcar-3	19.04	19.06	19.02	20.50	18.00	19.50	19.53	20.00
SCPP Rel 6	HSDPA Subcar-4	19.01	19.03	19.05	20.50	18.00	19.50	19.53	20.00
SCPP Rel 6	DC-HSDPA Subcar-1	19.34	19.35	19.31	21.00	18.90	19.85	19.91	21.00
SCPP Rel 6	DC-HSDPA Subcar-2	19.47	19.48	19.37	21.00	18.82	19.85	19.91	21.00
SCPP Rel 6	DC-HSDPA Subcar-3	18.99	19.10	18.98	20.50	18.54	19.63	19.63	20.00
SCPP Rel 6	DC-HSDPA Subcar-4	18.60	18.68	18.61	20.50	18.26	19.63	19.63	20.00
SCPP Rel 6	HSPA Subcar-1	19.32	19.35	19.31	21.00	18.83	20.00	19.85	21.00
SCPP Rel 6	HSPA Subcar-2	17.05	17.00	17.00	18.00	18.02	18.16	18.00	19.30
SCPP Rel 6	HSPA Subcar-3	18.48	18.52	18.54	20.00	18.95	19.16	19.00	19.30
SCPP Rel 6	HSPA Subcar-4	17.48	17.43	17.44	19.00	17.81	18.17	18.13	19.30
SCPP Rel 6	HSPA Subcar-5	18.25	18.42	18.36	21.00	18.86	19.94	19.94	21.00

Band 2 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 18750	Power High Ch./Freq. 18900	Power High Ch./Freq. 19100	Turnup time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.31	20.30	20.16			
20	QPSK	1	49	20.20	20.21	20.02	21.4	0	
20	QPSK	1	99	20.28	20.09	20.12			
20	QPSK	50	0	20.22	20.31	20.16			
20	QPSK	50	24	20.09	20.15	20.01	21.4	0	
20	QPSK	50	50	19.94	20.20	20.15			
20	QPSK	100	0	20.12	20.20	20.16			
20	16QAM	1	0	20.30	20.34	20.20	21.4	0	
20	16QAM	1	49	20.09	20.23	19.96			
20	16QAM	1	99	20.17	20.12	20.11			
20	16QAM	50	0	20.10	20.25	20.09			
20	16QAM	50	24	20.14	20.09	19.97	21.4	0	
20	16QAM	50	50	19.91	20.11	19.94			
20	16QAM	100	0	20.09	20.27	20.15			
20	84QAM	1	0	20.23	20.25	20.10			
20	84QAM	1	49	20.14	20.25	19.92	21.4	0	
20	84QAM	1	99	20.14	20.05	20.05			
20	84QAM	50	0	20.10	20.34	20.05			
20	84QAM	50	24	20.03	20.20	20.03	21.4	0	
20	84QAM	50	50	19.91	20.20	20.03			
20	84QAM	100	0	20.06	20.14	20.10			
20	256QAM	1	49	19.98	19.29	19.12	20.5	0.9	
20	256QAM	1	99	19.12	19.09	18.97			
20	256QAM	50	0	19.13	19.21	19.07			
20	256QAM	50	24	19.03	19.11	18.99	20.5	0.9	
20	256QAM	50	50	18.97	18.92	18.85			
20	256QAM	100	0	18.96	19.16	19.05			
Channel									
Frequency (MHz)									
18	QPSK	1	0	18.75	18.80	18.62			
18	QPSK	1	0	20.25	20.05	20.24	21.4	0	
18	QPSK	1	37	20.16	20.23	19.94			
18	QPSK	1	74	20.26	20.11	20.15			
18	QPSK	36	0	20.22	20.29	20.15			
18	QPSK	36	36	20.17	20.21	20.09	21.4	0	
18	QPSK	36	39	19.96	20.21	20.11			
18	QPSK	75	0	20.13	20.34	20.16			
18	16QAM	1	0	20.27	20.34	20.13	21.4	0	
18	16QAM	1	37	20.13	20.14	19.98			
18	16QAM	1	74	20.18	20.08	20.13			
18	16QAM	36	0	20.15	20.28	20.02			
18	16QAM	36	20	20.17	20.10	19.94	21.4	0	
18	16QAM	36	39	19.79	20.10	19.94			
18	16QAM	75	0	20.12	20.27	20.17			
18	84QAM	1	0	20.15	20.33	20.08	21.4	0	
18	84QAM	1	37	20.13	20.33	20.08			
18	84QAM	1	74	20.17	19.95	20.02			
18	84QAM	36	0	20.09	20.25	20.07	21.4	0	
18	84QAM	36	20	19.97	20.25	20.09			
18	84QAM	36	39	19.94	20.15	20.10			
18	84QAM	75	0	20.11	20.23	20.20			
18	256QAM	1	0	19.92	19.97	19.92	20.5	0.9	
18	256QAM	1	37	19.78	19.91	19.92			
18	256QAM	1	74	19.86	19.92	19.87			
18	256QAM	36	0	19.86	19.92	19.86			
18	256QAM	36	20	19.88	19.93	19.84	20.5	0.9	
18	256QAM	36	39	18.74	18.86	18.77			
18	256QAM	75	0	18.87	18.92	18.87			
Channel									
Frequency (MHz)									
10	QPSK	1	0	20.26	20.05	20.25	21.4	0	
10	QPSK	1	25	20.20	20.23	20.02			
10	QPSK	1	49	20.28	20.08	20.11			
10	QPSK	25	0	20.24	20.25	20.09	21.4	0	
10	QPSK	25	12	20.13	20.23	20.09			
10	QPSK	25	25	20.19	20.21	20.08			
10	QPSK	50	0	20.12	20.30	20.16			
10	16QAM	1	0	20.26	20.34	20.19			
10	16QAM	1	25	20.05	20.20	20.02	21.4	0	
10	16QAM	1	49	20.19	20.14	20.03			
10	16QAM	25	0	20.13	20.27	20.09			
10	16QAM	25	12	20.08	20.03	19.95	21.4	0	
10	16QAM	25	25	19.93	20.13	19.92			
10	16QAM	50	0	20.09	20.30	20.12			
10	84QAM	1	0	20.23	20.33	20.11	21.4	0	
10	84QAM	1	24	20.07	20.28	20.04			
10	84QAM	1	49	20.21	19.98	19.92			
10	84QAM	25	0	20.08	20.32	20.04	21.4	0	
10	84QAM	25	12	19.96	20.20	20.04			
10	84QAM	25	25	19.91	20.24	20.04			
10	84QAM	50	0	20.05	20.21	20.10			
10	256QAM	1	0	19.88	19.92	19.88	20.5	0.9	
10	256QAM	1	26	19.80	19.92	19.81			
10	256QAM	1	49	19.89	19.86	19.79			
10	256QAM	25	0	19.08	19.08	19.08			
10	256QAM	25	12	18.89	19.93	19.83	20.5	0.9	
10	256QAM	25	25	18.86	19.71	18.64			
10	256QAM	50	0	18.78	18.78	18.78			
Channel									
Frequency (MHz)									
5	QPSK	1	0	20.26	20.05	20.25	21.4	0	
5	QPSK	1	12	20.19	20.22	20.02			
5	QPSK	1	24	20.25	20.05	20.13			
5	QPSK	12	0	20.31	20.05	20.01			
5	QPSK	12	7	20.11	20.22	20.02			
5	QPSK	12	13	19.98	20.27	20.11			
5	QPSK	20	0	20.14	20.44	20.18	21.4	0	
5	16QAM	1	0	20.25	20.35	20.20			
5	16QAM	1	12	20.03	20.14	19.92	21.4	0	
5	16QAM	1	24	20.21	20.04	20.04			
5	16QAM	12	0	20.15	20.23	20.02			
5	16QAM	12	7	20.11	20.12	19.94	21.4	0	
5	16QAM	12	13	19.92	20.14	20.03			
5	16QAM	25	0	20.17	20.26	20.09			
5	84QAM	1	0	20.19	20.24	20.17	21.4	0	
5	84QAM	1	12	20.19	20.21	19.92			
5	84QAM	1	24	20.16	19.96	19.98			
5	84QAM	12	0	20.08	20.26	20.07	21.4	0	
5	84QAM	12	7	19.97	20.27	19.99			
5	84QAM	12	13	19.93	20.15	20.01			
5	84QAM	25	0	20.08	20.14	20.19			
5	256QAM	1	0	19.92	19.92	19.92	20.5	0.9	
5	256QAM	1	12	19.86	19.84	19.90			
5	256QAM	1	24	19.89	19.92	19.80			
5	256QAM	12	0	19.91	19.13	19.91			
5	256QAM	12	7	19.80	19.92	19.89	20.5	0.9	
5	256QAM	12	13	19.82	19.74	19.80			
5	256QAM	25	0	19.88	19.98	19.87			
Channel									
Frequency (MHz)									
3	QPSK	1	0	20.28	20.05	20.25	21.4	0	
3	QPSK	1	8	20.15	20.26	19.96			
3	QPSK	1	14	20.20	20.09	20.11			
3	QPSK	8	0	20.24	20.05	20.17			
3	QPSK	8	4	20.15	20.22	20.04	21.4	0	
3	QPSK	8	7	20.03	20.23	20.10			
3	QPSK	15	0	20.21	20.25	20.04			
3	16QAM	1	0	20.32	20.30	20.17	21.4	0	
3	16QAM	1	8	20.09	20.17	20.00			
3	16QAM	1	14	20.20	20.00	20.08			
3	16QAM	8	0	20.06	20.24	20.06	21.4	0	
3	16QAM	8	4	20.10	20.00	19.96			
3	16QAM	8	7	19.92	20.10	19.99			
3	16QAM	15	0	20.15	20.29	20.10			
3	84QAM	1	0	20.12	20.26	20.08	21.4	0	
3	84QAM	1	8	20.12	20.30	19.92			
3	84QAM	1	14	20.10	20.01	20.03			
3	84QAM	8	0	20.11	20.30	20.10			
3	84QAM	8	4	20.00	20.12	19.97	21.4	0	
3	84QAM	8	7	19.93	20.14	20.08			
3	84QAM	15	0	20.15	20.23	19.92			
3	256QAM	1	0	19.02	19.07	19.02	20.5	0.9	
3	256QAM	1	8	19.85	19.88	19.90			
3	256QAM	1	14	19.86	19.91	19.80			
3	256QAM	8	0	19.91	19.05	19.90			
3	256QAM	8	4	19.90	18.87	18.80	20.5	0.9	
3	256QAM	8	7	19.91	18.91	18.80			
3	256QAM	15	0	19.71	19.91	19.83			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	20.30	20.05	20.17	21.4	0	
1.4	QPSK	1	3	20.21	20.29	19.95			
1.4	QPSK	1	5	20.31	20.14	20.14			
1.4	QPSK	3	0	20.17	20.05	20.13			
1.4	QPSK								

Band 25 Ant3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up time (s)	MPE (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	20.38	20.43	20.29	21.4	0			
20	QPSK	1	49	20.23	20.34	20.37					
20	QPSK	1	99	20.33	20.18	20.22					
20	QPSK	50	0	20.28	20.42	20.24					
20	QPSK	50	24	20.23	20.27	20.12	21.4	0			
20	QPSK	50	50	20.06	20.31	20.18					
20	QPSK	100	0	20.26	20.36	20.28					
20	16QAM	1	0	20.35	20.38	20.32					
20	16QAM	1	99	20.24	20.15	20.20	21.4	0			
20	16QAM	50	0	20.19	20.39	20.10					
20	16QAM	50	24	20.19	20.14	20.05					
20	16QAM	100	0	20.18	20.27	20.23					
20	64QAM	1	0	20.26	20.37	20.21	21.4	0			
20	64QAM	1	49	20.21	20.32	20.02					
20	64QAM	50	0	20.14	20.39	20.14					
20	64QAM	50	24	20.10	20.25	20.07					
20	64QAM	50	50	20.10	20.32	20.14	21.4	0			
20	64QAM	100	0	20.18	20.27	20.23					
20	256QAM	1	0	18.11	18.26	18.06					
20	256QAM	1	49	18.85	18.08	18.82					
20	256QAM	1	99	18.87	18.89	18.95	20.5	0.9			
20	256QAM	50	0	18.05	18.92	18.03					
20	256QAM	50	24	18.00	19.13	18.83					
20	256QAM	50	50	18.84	18.12	19.03					
20	256QAM	100	0	18.01	18.17	18.03	Turn-up time (s)	MPE (dB)			
Channel											
Frequency (MHz)				1897.5	2040.6	2061.5	Turn-up time (s)	MPE (dB)			
15	QPSK	1	0	20.32	20.37	20.24	21.4	0			
15	QPSK	1	37	20.10	20.31	19.99					
15	QPSK	1	74	20.30	20.08	20.19					
15	QPSK	36	0	20.23	20.33	20.17					
15	QPSK	36	24	20.13	20.14	20.05	21.4	0			
15	QPSK	36	36	19.94	20.27	20.14					
15	QPSK	75	0	20.19	20.29	20.16					
15	16QAM	1	0	20.27	20.33	20.23					
15	16QAM	1	37	20.11	20.23	19.98	21.4	0			
15	16QAM	1	74	20.17	20.08	20.02					
15	16QAM	36	0	20.08	20.27	20.05					
15	16QAM	36	20	20.12	20.02	19.97					
15	16QAM	36	20	20.12	20.02	19.97	21.4	0			
15	16QAM	75	0	20.11	20.21	20.18					
15	64QAM	1	0	20.19	20.26	20.19					
15	64QAM	1	49	20.11	20.26	20.07					
15	64QAM	1	74	20.11	19.09	20.04	21.4	0			
15	64QAM	36	0	20.10	20.26	20.08					
15	64QAM	36	20	20.02	20.13	20.04					
15	64QAM	36	36	19.95	20.13	20.05					
15	64QAM	75	0	20.10	20.16	20.14	21.4	0			
15	256QAM	1	0	18.01	18.12	18.03					
15	256QAM	1	37	18.67	18.82	18.72					
15	256QAM	1	74	18.77	18.74	18.88					
15	256QAM	36	0	18.88	18.16	18.95	20.5	0.9			
15	256QAM	36	20	18.77	18.89	18.58					
15	256QAM	36	36	18.75	18.81	18.99					
15	256QAM	75	0	18.80	18.87	18.83					
Channel											
Frequency (MHz)				1895	1898	1910	Turn-up time (s)	MPE (dB)			
10	QPSK	1	0	20.34	20.32	20.24	21.4	0			
10	QPSK	1	25	20.10	20.21	20.01					
10	QPSK	1	49	20.23	20.15	20.20					
10	QPSK	25	0	20.19	20.29	20.18					
10	QPSK	25	12	20.12	20.13	20.08	21.4	0			
10	QPSK	25	25	19.95	20.29	20.08					
10	QPSK	50	0	20.13	20.23	20.16					
10	16QAM	1	0	20.30	20.35	20.22					
10	16QAM	1	25	20.03	20.22	20.00	21.4	0			
10	16QAM	1	49	20.11	20.08	19.96					
10	16QAM	25	0	20.12	20.23	20.07					
10	16QAM	25	12	20.18	20.08	19.95					
10	16QAM	25	25	19.98	20.19	19.95	21.4	0			
10	16QAM	50	0	20.08	20.21	20.17					
10	64QAM	1	0	20.22	20.27	20.16					
10	64QAM	1	25	20.15	20.23	20.04					
10	64QAM	1	49	20.14	20.01	20.01	21.4	0			
10	64QAM	25	0	20.02	20.27	20.03					
10	64QAM	25	25	20.05	20.19	19.94					
10	64QAM	25	25	19.98	20.23	20.11					
10	64QAM	50	0	20.14	20.21	20.16	21.4	0			
10	256QAM	1	0	18.01	18.15	18.05					
10	256QAM	1	25	18.76	18.90	18.74					
10	256QAM	1	49	18.70	18.86	18.79					
10	256QAM	25	0	18.88	18.16	18.95	20.5	0.9			
10	256QAM	25	12	18.74	18.90	18.68					
10	256QAM	25	25	18.75	18.98	18.93					
10	256QAM	50	0	18.96	18.91	18.72					
Channel											
Frequency (MHz)				1892.5	2040.6	2066.5	Turn-up time (s)	MPE (dB)			
5	QPSK	1	0	20.33	20.32	20.23	21.4	0			
5	QPSK	1	12	20.16	20.27	20.01					
5	QPSK	1	24	20.21	20.12	20.18					
5	QPSK	12	0	20.19	20.29	20.17					
5	QPSK	12	7	20.21	20.25	20.05	21.4	0			
5	QPSK	12	13	20.03	20.20	20.10					
5	QPSK	25	0	20.18	20.25	20.12					
5	16QAM	1	0	20.29	20.32	20.23					
5	16QAM	1	12	20.03	20.15	19.91	21.4	0			
5	16QAM	1	24	20.21	20.09	20.17					
5	16QAM	12	0	20.06	20.28	20.07					
5	16QAM	12	7	20.07	20.08	19.98					
5	16QAM	12	13	19.88	20.12	19.93	21.4	0			
5	16QAM	25	0	20.13	20.27	20.16					
5	64QAM	1	0	20.23	20.32	20.16					
5	64QAM	1	24	20.08	20.22	19.92					
5	64QAM	1	24	20.13	20.02	20.01	21.4	0			
5	64QAM	12	0	20.09	20.25	20.08					
5	64QAM	12	13	19.99	20.19	19.94					
5	64QAM	12	13	19.98	20.18	20.08					
5	64QAM	25	0	20.11	20.20	20.12	21.4	0			
5	256QAM	1	0	18.02	18.17	18.89					
5	256QAM	1	12	18.75	18.76	18.78					
5	256QAM	1	24	18.83	18.94	18.74					
5	256QAM	12	0	18.97	18.96	18.87	20.5	0.9			
5	256QAM	12	7	18.93	18.89	18.88					
5	256QAM						20.5	0.9			
5	256QAM	12	13	18.91	18.88	18.87					
5	256QAM	25	0	19.92	19.96	18.81	20.5	0.9			
5	256QAM	25	25	19.92	19.96	18.81					
Channel											
Frequency (MHz)				1891.5	2040.6	2065.5	Turn-up time (s)	MPE (dB)			
3	QPSK	1	0	20.35	20.35	20.25	21.4	0			
3	QPSK	1	8	20.18	20.24	19.93					
3	QPSK	1	16	20.19	20.18	20.18					
3	QPSK	8	0	20.13	20.33	20.17					
3	QPSK	8	8	20.18	20.20	20.05	21.4	0			
3	QPSK	16	0	20.18	20.29	20.14					
3	QPSK	16	8	20.23	20.28	19.99					
3	16QAM	1	0	20.21	20.35	20.19					
3	16QAM	1	16	20.22	20.08	20.16	21.4	0			
3	16QAM	8	0	20.05	20.27	20.07					
3	16QAM	8	8	19.96	20.26	20.07					
3	16QAM	8	16	19.87	20.15	19.88					
3	16QAM	16	0	20.22	20.29	20.19	21.4	0			
3	16QAM	16	8	20.17	20.30	20.12					
3	64QAM	1	0	20.14	20.23	20.18					
3	64QAM	8	0	20.05	20.33	19.96					
3	64QAM	8	8	20.09	20.22	20.11	21.4	0			
3	64QAM	16	0	19.99	20.12	19.92					
3	64QAM	16	8	19.96	20.16	19.92					
3	64QAM	16	16	19.85	20.16	19.87					
3	64QAM	32	0	19.91	20.15	20.18	20.5	0.9			
3	256QAM	1	0	18.00	18.15	18.86					
3	256QAM	1	16	18.77	18.86	18.80					
3	256QAM	1	32	18.81	18.91	18.74					
Channel											
Frequency (MHz)				1890.7	1986	1974	Turn-up time (s)	MPE (dB)			
1.4	QPSK	1	0	20.28	20.38	20.27	21.4	0			
1.4	QPSK	1	8	20.22	20.20	20.13					
1.4	QPSK	1	16	20.25	20.09	20.16					
1.4	QPSK	3	0	20.23	20.32	20.21					
1.4	QPSK	3	8	20.25	20.22	20.15	21.4	0			
1.4	QPSK	3	16	20.16	20.29	20.14					
1.4	QPSK	16	0	20.23	20.28	20.19					
1.4	16QAM	1	0	20.21	20.35	20.19					
1.4	16QAM	1	16	20.22	20.08	20.16	21.4	0			
1.4	16QAM	8	0	20.05	20.27	20.07					
1.4	16QAM	8	8	19.96	20.26	20.07					
1.4	16QAM	8	16	19.87	20.15	19.88					
1.4	16QAM	16	0	20.22	20.29	20.19	21.4	0			
1.4	16QAM	16	8	20.17	20.30	20.12					
1.4	64QAM	1	0	20.14	20.23	20.18					
1.4	64QAM	8	0	20.05	20.36	20.07					
1.4	64QAM	8	8	20.09	20.22	20.11	21.4	0			
1.4	64QAM	16	0	19.91	20.15	20.18					
1.4	64QAM	16	8	19.90	20.14	20.18					
1.4	64QAM	16	16	19.83	20.14	20.18					
1.4	64QAM	32	0	19.91	20.14	20.18	21.4	0			
1.4	256QAM	1	0	18.00	18.15	18.87					
1.4	256QAM	1	16	18.75	18.80	18.77					
1.4	256QAM	1	32	18.86	18.91	18.77					
1.4	256QAM	16	0	18.90	18.88	18.87	20.5	0.9			
1.4	256QAM	16	8	18.82	18.87	18.87					
1.4	256QAM	32	0	18.72	18.94	17.99	20.3	0.9			
1.4	256QAM	32	8	18.72	18.94	17.99					



Band 38 Ant3																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPE (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	21.56	21.63	21.43	22.8	0								
20	QPSK	1	49	21.57	21.47	21.27										
20	QPSK	1	99	21.62	21.49	21.31										
20	QPSK	50	0	21.49	21.53	21.31										
20	QPSK	50	24	21.38	21.36	21.08	22.8	0								
20	QPSK	100	0	21.48	21.55	21.27										
20	16QAM	1	0	21.46	21.59	21.34										
20	16QAM	1	49	21.39	21.37	21.17										
20	16QAM	1	99	21.41	21.30	21.14	22	0.8								
20	16QAM	50	0	20.94	20.94	20.92										
20	16QAM	50	24	20.92	20.92	20.98										
20	16QAM	50	50	20.40	20.36	20.18										
20	16QAM	100	0	20.92	20.92	20.91	22	0.8								
20	16QAM	1	0	20.92	20.92	20.96										
20	16QAM	1	49	20.45	20.39	20.11										
20	16QAM	1	99	20.33	20.33	20.33										
20	16QAM	50	0	19.46	19.61	19.38	21	1.8								
20	16QAM	50	24	19.46	19.58	19.43										
20	16QAM	50	50	19.37	19.33	19.15										
20	16QAM	100	0	19.38	19.37	19.30										
20	256QAM	1	0	17.50	17.53	17.34	19	3.8								
20	256QAM	1	49	17.33	17.49	17.14										
20	256QAM	1	99	17.34	17.37	17.22										
20	256QAM	50	0	17.42	17.42	17.36										
20	256QAM	50	24	17.44	17.55	17.38	19	3.8								
20	256QAM	50	50	17.39	17.33	17.18										
20	256QAM	100	0	17.39	17.33	17.17										
Channel																
Frequency (MHz)																
15	QPSK	1	0	21.43	21.63	21.43	22.8	0								
15	QPSK	1	37	21.63	21.43	21.44										
15	QPSK	1	74	21.46	21.33	21.24										
15	QPSK	36	0	21.39	21.50	21.26										
15	QPSK	36	20	21.31	21.30	21.03	22.8	0								
15	QPSK	75	0	21.39	21.46	21.26										
15	QPSK	75	24	21.36	21.45	21.63										
15	16QAM	1	0	21.38	21.46	21.22										
15	16QAM	1	37	21.39	21.39	21.37	22.8	0								
15	16QAM	1	74	21.29	21.23	21.08										
15	16QAM	36	0	20.41	20.40	20.25										
15	16QAM	36	20	20.32	20.28	20.04										
15	16QAM	36	39	20.36	20.31	20.11	22	0.8								
15	16QAM	75	0	20.46	20.43	20.23										
15	16QAM	75	24	20.39	20.41	21.06										
15	16QAM	75	39	20.28	20.29	20.10										
15	256QAM	1	0	20.27	20.28	20.13	22	0.8								
15	256QAM	1	37	20.36	20.35	20.28										
15	256QAM	1	74	20.27	20.26	20.13										
15	256QAM	36	0	19.36	19.35	19.28										
15	256QAM	36	20	19.36	19.44	19.37	21	1.8								
15	256QAM	36	39	19.36	19.36	19.37										
15	256QAM	75	0	19.33	19.31	19.06										
15	256QAM	75	0	17.41	17.42	17.27										
15	256QAM	75	24	17.39	17.37	17.26	19	3.8								
15	256QAM	75	39	17.39	17.37	17.17										
15	256QAM	100	0	17.39	17.34	17.12										
Channel																
Frequency (MHz)																
10	QPSK	1	0	21.50	21.46	21.44	22.8	0								
10	QPSK	1	25	21.50	21.45	21.21										
10	QPSK	1	49	21.52	21.33	21.19										
10	QPSK	1	49	21.45	21.45	21.26										
10	QPSK	25	0	21.36	21.26	21.01	22.8	0								
10	QPSK	25	25	21.19	21.16	21.11										
10	QPSK	25	49	21.42	21.42	21.18										
10	16QAM	1	0	21.39	21.63	21.28										
10	16QAM	1	0	21.39	21.63	21.28	22.8	0								
10	16QAM	1	25	21.29	21.26	21.08										
10	16QAM	1	49	21.32	21.37	21.26										
10	16QAM	25	0	20.51	20.46	20.26										
10	16QAM	25	0	20.39	20.39	20.02	22	0.8								
10	16QAM	25	19	20.34	20.29	20.01										
10	16QAM	25	25	20.35	20.25	20.06										
10	16QAM	50	0	20.49	20.47	20.10										
10	16QAM	1	0	20.39	20.39	20.10	22	0.8								
10	16QAM	1	25	20.39	20.32	20.10										
10	16QAM	1	49	20.39	20.29	20.10										
10	16QAM	25	0	19.40	19.32	19.35										
10	16QAM	25	12	19.34	19.40	19.38	21	1.8								
10	16QAM	25	25	19.24	19.21	19.07										
10	16QAM	50	0	19.39	19.33	19.18										
10	256QAM	1	0	17.44	17.47	17.22										
10	256QAM	1	25	17.37	17.39	17.02	19	3.8								
10	256QAM	1	49	17.51	17.51	17.09										
10	256QAM	25	0	17.41	17.47	17.27										
10	256QAM	25	12	17.36	17.40	17.34										
10	256QAM	25	25	17.39	17.27	17.10	19	3.8								
10	256QAM	50	0	17.28	17.28	17.07										
Channel																
Frequency (MHz)																
5	QPSK	1	0	21.44	21.56	21.36	22.8	0								
5	QPSK	1	12	21.65	21.55	21.25										
5	QPSK	1	24	21.49	21.38	21.25										
5	QPSK	12	0	21.46	21.42	21.28										
5	QPSK	12	7	21.36	21.31	21.05	22.8	0								
5	QPSK	12	13	21.23	21.22	21.09										
5	QPSK	25	0	21.49	21.46	21.34										
5	16QAM	1	0	21.39	21.62	21.21										
5	16QAM	1	12	21.27	21.32	21.10	22.8	0								
5	16QAM	1	24	21.53	21.56	21.67										
5	16QAM	12	0	20.40	20.40	20.22										
5	16QAM	12	7	20.33	20.33	20.26										
5	16QAM	12	13	20.37	20.32	20.15	22	0.8								
5	16QAM	25	0	20.43	20.43	20.19										
5	16QAM	25														
5	16QAM	1	0	19.32	19.32	19.04	22	0.8								
5	16QAM	1	12	20.38	20.27	20.04										
5	16QAM	1	24	20.38	20.30	20.10										
5	16QAM	12	0	19.33	19.30	19.01										
5	16QAM	12	13	19.33	19.30	19.01	21	1.8								
5	16QAM	25	0	19.31	19.31	19.15										
5	16QAM	25	12	19.33	19.43	19.37										
5	256QAM	1	0	17.29	17.32	17.06										
5	256QAM	1	24	17.50	17.25	17.14	19	3.8								
5	256QAM	12	0	17.39	17.43	17.29										
5	256QAM	12	7	17.36	17.37	17.18										
5	256QAM	12	13	17.38	17.23	17.07										
5	256QAM	25	0	17.28	17.28	17.04	19	3.8								
5	256QAM	25	12	17.36	17.40	17.34										
5	256QAM	25	25	17.39	17.27	17.10										
5	256QAM	50	0	17.28	17.28	17.07										



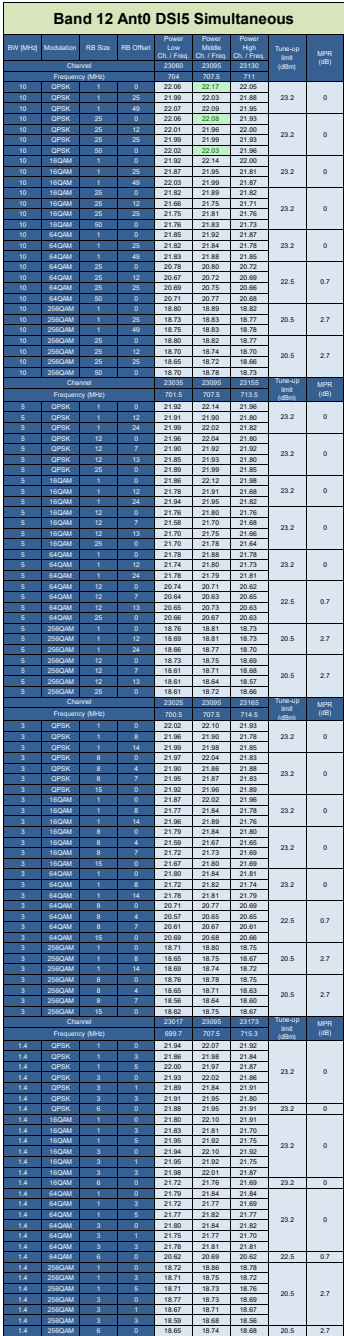
Band 48_FCC Ant3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Freq / Power Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPP (dB)	
Channel				56540	56630	56760	56840	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56610	56700	56830	56920			
20	QPSK	1	0	18.40	18.48	18.43	18.46	19.8	0	
20	QPSK	1	49	18.35	18.38	18.41	18.40			
20	QPSK	1	99	18.30	18.30	18.36	18.38			
20	QPSK	50	0	18.21	18.43	18.39	18.37			
20	QPSK	50	24	18.26	18.33	18.26	18.33	19.8	0	
20	QPSK	50	50	18.20	18.34	18.26	18.27			
20	QPSK	100	0	18.24	18.37	18.26	18.30			
20	16QAM	1	0	18.33	18.44	18.37	18.37			
20	16QAM	1	49	18.29	18.34	18.23	18.41	19.8	0	
20	16QAM	1	99	18.37	18.36	18.17	18.39			
20	16QAM	50	0	18.31	18.41	18.31	18.46			
20	16QAM	50	24	18.31	18.27	18.23	18.29			
20	16QAM	50	50	18.26	18.26	18.25	18.29	19.8	0	
20	64QAM	100	0	18.22	18.22	18.26	18.24			
20	64QAM	1	0	18.25	18.41	18.21	18.41			
20	64QAM	1	49	18.21	18.35	18.17	18.38			
20	64QAM	1	99	18.38	18.33	18.26	18.37	19.8	0	
20	64QAM	50	0	18.20	18.38	18.20	18.21			
20	64QAM	50	24	18.21	18.28	18.17	18.22			
20	64QAM	50	50	18.27	18.22	18.18	18.27			
20	256QAM	100	0	18.23	18.30	18.13	18.31	19.8	0	
20	256QAM	1	0	18.27	18.33	18.21	18.28			
20	256QAM	1	49	18.27	18.28	18.21	18.33			
20	256QAM	1	99	18.52	18.22	18.30	18.27			
20	256QAM	50	0	18.27	18.31	18.27	18.27	19.8	0	
20	256QAM	50	24	18.20	18.33	18.29	18.21			
20	256QAM	50	50	18.34	18.25	18.18	18.33			
20	256QAM	100	0	18.18	18.29	18.20	18.28			
Channel				56715	56820	56960	57065	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56775	56870	57010	57115			
15	QPSK	1	0	18.34	18.35	18.39	18.41	19.8	0	
15	QPSK	1	37	18.22	18.29	18.34	18.34			
15	QPSK	1	74	18.21	18.20	18.30	18.15			
15	QPSK	86	0	18.08	18.39	18.38	18.25			
15	QPSK	86	20	18.20	18.26	18.19	18.19	19.8	0	
15	QPSK	75	0	18.18	18.29	18.19	18.21			
15	QPSK	75	0	18.18	18.30	18.14	18.25			
15	16QAM	1	0	18.27	18.35	18.30	18.34			
15	16QAM	1	37	18.20	18.29	18.16	18.24	19.8	0	
15	16QAM	1	74	18.32	18.25	18.14	18.28			
15	16QAM	86	0	18.27	18.37	18.25	18.43			
15	16QAM	86	20	18.08	18.15	18.00	18.28			
15	16QAM	86	39	18.17	18.18	18.17	18.23	19.8	0	
15	16QAM	75	0	18.14	18.12	18.16	18.23			
15	64QAM	1	0	18.15	18.36	18.20	18.28			
15	64QAM	1	37	18.00	18.27	18.13	18.36			
15	64QAM	1	74	18.17	18.23	18.15	18.30	19.8	0	
15	64QAM	86	0	18.20	18.31	18.25	18.21			
15	64QAM	86	20	18.10	18.13	18.03	18.12			
15	64QAM	86	39	18.27	18.17	18.16	18.25			
15	64QAM	75	0	18.10	18.10	18.09	18.23	19.8	0	
15	256QAM	1	0	18.17	18.29	18.18	18.25			
15	256QAM	1	37	18.20	18.15	18.08	18.20			
15	256QAM	1	74	18.28	18.18	18.22	18.22			
15	256QAM	86	0	18.14	18.24	18.17	18.13	19.8	0	
15	256QAM	86	20	18.00	18.20	18.18	18.09			
15	256QAM	86	39	18.20	18.19	18.13	18.26			
15	256QAM	75	0	18.00	18.22	18.16	18.23			
Channel				56920	56955	56965	57000	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56955	56975	56975	56975			
10	QPSK	1	0	18.37	18.40	18.37	18.38	19.8	0	
10	QPSK	1	25	18.23	18.36	18.39	18.28			
10	QPSK	1	49	18.18	18.21	18.25	18.23			
10	QPSK	25	0	18.10	18.33	18.26	18.24			
10	QPSK	25	12	18.10	18.30	18.16	18.22	19.8	0	
10	QPSK	25	25	18.23	18.25	18.16	18.19			
10	16QAM	1	0	18.20	18.25	18.18	18.24			
10	16QAM	1	0	18.24	18.37	18.25	18.36			
10	16QAM	1	25	18.18	18.31	18.14	18.29	19.8	0	
10	16QAM	1	49	18.28	18.26	18.13	18.33			
10	16QAM	25	0	18.22	18.36	18.20	18.38			
10	16QAM	25	12	18.00	18.22	18.20	18.28			
10	16QAM	25	25	18.25	18.18	18.14	18.24	19.8	0	
10	16QAM	50	0	18.13	18.11	18.22	18.25			
10	64QAM	1	0	18.23	18.33	18.27	18.23			
10	64QAM	1	25	18.07	18.22	18.08	18.28	19.8	0	
10	64QAM	1	49	18.23	18.29	18.23	18.24			
10	64QAM	25	0	18.18	18.35	18.26	18.22			
10	64QAM	25	12	18.11	18.19	18.11	18.12			
10	64QAM	25	25	18.28	18.19	18.17	18.34	19.8	0	
10	64QAM	80	0	18.10	18.28	18.10	18.23			
10	256QAM	1	0	18.18	18.27	18.18	18.21			
10	256QAM	1	25	18.14	18.16	18.11	18.25			
10	256QAM	1	49	18.25	18.08	18.26	18.13	19.8	0	
10	256QAM	25	0	18.10	18.19	18.22	18.22			
10	256QAM	25	12	18.11	18.28	18.25	18.18			
10	256QAM	25	25	18.25	18.20	18.08	18.21			
10	256QAM	50	0	18.08	18.25	18.15	18.17	Turn-up time (dBm)	MPP (dB)	
Channel				56955	56975	56975	56975			
Frequency (MHz)				56955	56975	56975	56975			
5	QPSK	1	0	18.31	18.36	18.35	18.32	19.8	0	
5	QPSK	1	12	18.20	18.31	18.27	18.33			
5	QPSK	1	24	18.22	18.25	18.27	18.21			
5	QPSK	12	0	18.17	18.30	18.30	18.23			
5	QPSK	12	7	18.10	18.29	18.18	18.23	19.8	0	
5	QPSK	12	13	18.18	18.20	18.20	18.20			
5	QPSK	25	0	18.18	18.34	18.19	18.18			
5	16QAM	1	0	18.23	18.41	18.24	18.33			
5	16QAM	1	12	18.18	18.21	18.14	18.33	19.8	0	
5	16QAM	1	24	18.36	18.24	18.15	18.23			
5	16QAM	12	0	18.26	18.36	18.26	18.39			
5	16QAM	12	7	18.07	18.15	18.10	18.26			
5	16QAM	12	13	18.27	18.23	18.20	18.23	19.8	0	
5	16QAM	25	0	18.10	18.11	18.18	18.28			
5	64QAM	1	0	18.24	18.38	18.25	18.31			
5	64QAM	1	12	18.00	18.31	18.04	18.20			
5	64QAM	1	24	18.18	18.24	18.18	18.29	19.8	0	
5	64QAM	12	0	18.23	18.33	18.27	18.37			
5	64QAM	12	7	18.10	18.13	18.10	18.16			
5	64QAM	12	13	18.28	18.18	18.13	18.34			
5	64QAM	25	0	18.18	18.25	18.10	18.18	19.8	0	
5	256QAM	1	0	18.18	18.24	18.12	18.20			
5	256QAM	1	12	18.18	18.23	18.08	18.22			
5	256QAM	1	24	18.22	18.19	18.18	18.17			
5	256QAM	25	0	18.10	18.29	18.29	18.15	19.8	0	
5	256QAM	25	12	18.13	18.27	18.22	18.18			
5	256QAM	25	25	18.22	18.22	18.09	18.20			
5	256QAM	50	0	18.16	18.16	18.15	18.18			

Band 48_FCC Ant5										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mod Ch / Freq	Power High Mod Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MFR (dB)	
Channel				56540	56630	56760	56850	Turn-up time (dBm)	MFR (dB)	
Frequency (MHz)				56540	56630	56760	56850			
20	QPSK	1	0	20.14	20.23	20.10	19.99	21.3	0	
20	QPSK	1	49	19.86	20.09	20.06	19.92			
20	QPSK	1	99	20.02	20.11	20.01	19.98			
20	QPSK	50	0	20.03	20.10	20.07	19.92			
20	QPSK	50	24	20.03	20.02	19.98	19.84	21.3	0	
20	QPSK	50	50	19.88	20.07	19.98	19.89			
20	QPSK	100	0	20.05	20.11	20.04	19.85			
20	16QAM	1	0	19.97	20.10	19.99	19.90			
20	16QAM	1	49	20.02	20.17	20.02	20.03	21.3	0	
20	16QAM	1	99	20.02	20.05	19.95	20.04			
20	16QAM	50	0	19.95	19.88	20.02	19.93			
20	16QAM	50	24	19.95	20.04	19.97	20.05			
20	16QAM	50	50	19.95	20.00	19.89	19.96	21.3	0	
20	64QAM	100	0	19.95	19.95	19.95	19.95			
20	64QAM	1	0	20.07	20.21	20.08	20.05			
20	64QAM	1	49	20.10	20.11	20.07	19.96			
20	64QAM	1	99	19.92	20.01	19.84	19.95	21.3	0	
20	64QAM	50	0	20.03	19.86	20.01	20.07			
20	64QAM	50	24	20.00	20.04	19.91	19.92			
20	64QAM	50	50	19.87	20.04	19.92	19.95			
20	256QAM	100	0	19.93	20.01	19.97	19.91	21.3	0	
20	256QAM	1	0	19.95	20.10	19.89	19.92			
20	256QAM	1	49	19.95	19.99	20.04	20.03			
20	256QAM	1	99	20.00	20.08	19.84	19.88			
20	256QAM	50	0	19.97	20.03	20.05	20.08	21.3	0	
20	256QAM	50	24	19.91	19.98	19.83	19.88			
20	256QAM	50	50	19.81	19.89	20.01	19.89			
20	256QAM	100	0	19.95	20.05	20.00	19.95			
Channel				56515	56620	56760	56865	Turn-up time (dBm)	MFR (dB)	
Frequency (MHz)				56515	56620	56760	56865			
15	QPSK	1	0	20.03	20.19	20.03	19.95	21.3	0	
15	QPSK	1	37	19.80	20.01	20.03	19.82			
15	QPSK	1	74	19.91	20.07	19.91	19.81			
15	QPSK	86	0	20.01	20.12	20.01	19.75			
15	QPSK	86	20	19.91	19.97	19.95	19.74	21.3	0	
15	QPSK	75	0	19.97	20.03	19.87	19.77			
15	QPSK	75	0	19.93	20.05	19.98	19.81			
15	16QAM	1	0	19.90	20.02	19.86	19.79			
15	16QAM	1	37	19.88	20.11	19.95	19.88	21.3	0	
15	16QAM	1	74	19.95	20.01	19.95	19.89			
15	16QAM	58	0	19.82	19.90	19.95	19.87			
15	16QAM	86	20	19.82	20.00	19.82	19.87			
15	16QAM	86	39	19.80	19.96	19.85	19.88	21.3	0	
15	16QAM	75	0	19.85	19.92	19.84	19.83			
15	64QAM	1	0	19.95	20.10	20.02	20.02			
15	64QAM	1	37	20.01	20.08	19.97	19.99			
15	64QAM	1	74	19.85	19.97	19.90	19.85	21.3	0	
15	64QAM	58	0	19.92	19.93	19.99	20.00			
15	64QAM	58	20	19.91	20.01	19.86	19.79			
15	64QAM	86	20	19.75	19.92	19.75	19.81			
15	64QAM	75	0	19.92	19.95	19.89	19.81	21.3	0	
15	256QAM	1	0	19.91	19.96	19.76	19.87			
15	256QAM	1	37	19.92	19.90	19.95	19.88			
15	256QAM	1	74	19.95	20.05	19.78	19.85			
15	256QAM	58	0	19.85	19.94	20.02	19.98	21.3	0	
15	256QAM	86	20	19.85	19.85	19.75	19.74			
15	256QAM	86	39	19.76	19.93	19.97	19.81			
15	256QAM	75	0	19.87	20.02	19.87	19.74			
Channel				56520	56615	56760	56865	Turn-up time (dBm)	MFR (dB)	
Frequency (MHz)				56520	56615	56760	56865			
10	QPSK	1	0	20.08	20.18	20.05	19.87	21.3	0	
10	QPSK	1	25	19.83	20.01	19.95	19.83			
10	QPSK	1	49	19.95	19.87	19.93	19.83			
10	QPSK	15	0	19.93	20.07	20.05	19.75			
10	QPSK	25	12	19.80	19.88	19.86	19.77	21.3	0	
10	QPSK	25	25	19.89	20.01	19.92	19.79			
10	QPSK	50	0	20.02	19.97	19.99	19.74			
10	16QAM	1	0	19.93	20.03	19.84	19.85			
10	16QAM	1	25	19.98	20.10	19.94	19.86	21.3	0	
10	16QAM	1	49	19.91	19.94	19.92	19.98			
10	16QAM	25	0	19.82	19.87	19.99	19.89			
10	16QAM	25	12	19.85	19.90	19.79	19.82			
10	16QAM	50	0	19.90	19.80	19.86	19.86	21.3	0	
10	64QAM	1	0	20.00	20.09	20.03	20.04			
10	64QAM	1	25	20.05	20.08	19.95	19.87			
10	64QAM	1	49	19.81	19.91	19.81	19.92			
10	64QAM	25	0	20.01	19.91	19.98	20.03	21.3	0	
10	64QAM	25	12	19.88	19.99	19.86	19.89			
10	64QAM	25	25	19.83	20.01	19.81	19.83			
10	256QAM	1	0	19.85	19.88	19.87	19.78			
10	256QAM	1	25	19.89	20.02	19.80	19.87	21.3	0	
10	256QAM	1	49	19.85	19.89	19.93	19.84			
10	256QAM	1	25	19.85	19.83	19.92	20.00			
10	256QAM	25	12	19.87	19.90	19.75	19.80			
10	256QAM	25	25	19.75	19.90	19.88	19.75	21.3	0	
10	256QAM	50	0	19.91	19.95	19.87	19.73			
10	256QAM	50	0	19.95	19.97	19.87	19.73			
Channel				56525	56610	56760	56875			
Frequency (MHz)				56525	56610	56760	56875			
5	QPSK	1	0	20.05	20.11	20.05	19.91	21.3	0	
5	QPSK	1	12	19.90	20.03	19.98	19.79			
5	QPSK	1	24	19.94	20.04	19.91	19.86			
5	QPSK	12	0	19.84	20.06	20.03	19.71			
5	QPSK	12	7	19.93	19.98	19.86	19.75	21.3	0	
5	QPSK	12	19	19.84	19.96	19.88	19.87			
5	QPSK	25	0	19.93	20.06	19.97	19.77			
5	16QAM	1	0	19.87	20.10	19.90	19.78			
5	16QAM	1	12	20.01	20.05	19.89	19.94	21.3	0	
5	16QAM	1	24	19.95	19.94	19.80	19.87			
5	16QAM	12	0	19.89	19.91	19.99	19.90			
5	16QAM	12	7	19.76	20.00	19.93	20.02			
5	16QAM	12	19	19.87	19.96	19.77	19.89	21.3	0	
5	16QAM	25	0	19.95	19.89	19.80	19.93			
5	64QAM	1	0	19.94	20.11	20.04	20.03			
5	64QAM	1	12	20.02	19.99	19.94	19.89			
5	64QAM	1	24	19.81	19.90	19.73	19.84	21.3	0	
5	64QAM	12	0	19.84	19.83	19.86	20.01			
5	64QAM	12	7	19.97	19.99	19.83	19.72			
5	64QAM	12	19	19.81	19.89	19.81	19.90			
5	256QAM	1	0	19.86	19.89	19.86	19.82	21.3	0	
5	256QAM	1	12	19.91	20.01	19.83	19.80			
5	256QAM	1	24	19.91	19.92	19.95	20.00			
5	256QAM	1	12	19.81	20.01	19.72	19.75	21.3	0	
5	256QAM	12	0	19.89	19.92	19.91	19.90			
5	256QAM	12	7	19.86	19.92	19.71	19.78			
5	256QAM	12	19	19.76	19.93	19.82	19.86	21.3	0	
5	256QAM	19	0	19.87	19.95	19.85	19.78			
5	256QAM	19	7	19.89	19.90	19.80	19.83			



Band 2 Ant0 DS15 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Hsp / Ch / Freq	Power Hsp / Ch / Freq	Turn-up time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.04	19.02	19.13			
20	QPSK	1	49	19.04	19.02	19.13	20.4	0	
20	QPSK	1	99	19.03	19.13	19.18			
20	QPSK	1	0	19.02	19.13	19.03			
20	QPSK	50	24	19.03	19.02	19.03			
20	QPSK	50	50	19.06	19.00	19.06			
20	QPSK	100	0	19.04	19.02	19.06			
20	16QAM	1	0	19.02	19.00	19.00			
20	16QAM	1	49	19.07	19.00	19.00	20.4	0	
20	16QAM	50	24	19.08	19.02	19.07			
20	16QAM	50	50	19.06	19.00	19.04			
20	16QAM	100	0	19.06	19.00	19.04			
20	64QAM	1	0	19.06	19.00	19.04			
20	64QAM	1	49	19.04	19.00	19.00	20.4	0	
20	64QAM	1	99	19.01	19.00	19.00			
20	64QAM	50	0	19.04	19.00	19.00			
20	64QAM	50	24	19.79	19.00	19.00			
20	64QAM	50	50	19.06	19.00	19.04			
20	64QAM	100	0	19.07	19.00	19.01			
20	256QAM	1	49	19.02	19.00	19.00	20.4	0	
20	256QAM	1	99	19.00	19.00	19.07			
20	256QAM	50	24	19.03	19.00	19.00			
20	256QAM	50	50	19.07	19.04	19.06			
20	256QAM	100	0	19.09	19.00	19.01			
20	256QAM	100	0	19.09	19.00	19.01			
Channel									
Frequency (MHz)									
15	QPSK	1	0	19.00	19.00	19.00			
15	QPSK	1	49	19.00	19.00	19.00	20.4	0	
15	QPSK	1	99	19.00	19.00	19.00			
15	QPSK	50	0	19.00	19.00	19.00			
15	QPSK	50	24	19.00	19.00	19.00			
15	QPSK	36	39	19.06	19.00	19.00			
15	QPSK	75	0	19.00	19.00	19.00			
15	16QAM	1	0	19.00	19.00	19.00			
15	16QAM	1	37	19.04	19.07	19.00	20.4	0	
15	16QAM	36	39	19.06	19.00	19.00			
15	16QAM	75	0	19.00	19.00	19.00			
15	16QAM	36	20	19.06	19.01	19.01			
15	16QAM	75	0	19.00	19.00	19.00			
15	64QAM	1	0	19.03	19.01	19.01			
15	64QAM	1	37	19.04	19.07	19.00	20.4	0	
15	64QAM	1	74	19.04	19.00	19.00			
15	64QAM	36	0	19.03	19.00	19.00			
15	64QAM	36	39	19.06	19.00	19.00			
15	64QAM	75	0	19.00	19.00	19.00			
15	256QAM	1	37	19.00	19.00	19.00	20.4	0	
15	256QAM	1	74	19.01	19.02	19.04			
15	256QAM	36	20	19.04	19.01	19.01			
15	256QAM	36	39	19.06	19.01	19.03			
15	256QAM	75	0	19.04	19.01	19.03			
Channel									
Frequency (MHz)									
10	QPSK	1	0	18.92	18.90	18.90			
10	QPSK	1	25	18.90	18.90	19.13	20.4	0	
10	QPSK	1	49	18.83	19.04	19.15			
10	QPSK	25	0	18.90	18.90	19.13			
10	QPSK	25	25	18.86	19.00	19.03			
10	QPSK	25	25	18.85	18.98	19.01			
10	QPSK	25	49	18.86	19.00	19.03			
10	16QAM	1	0	18.89	19.01	19.03			
10	16QAM	1	25	18.83	19.06	19.02	20.4	0	
10	16QAM	25	0	18.82	19.07	19.02			
10	16QAM	25	12	18.84	18.87	18.82			
10	16QAM	50	0	18.80	19.00	19.00			
10	64QAM	1	0	18.89	19.00	19.00			
10	64QAM	1	49	18.82	19.00	19.04			
10	64QAM	25	0	18.75	19.02	19.00			
10	64QAM	25	12	18.86	18.80	18.79			
10	64QAM	50	0	18.78	19.00	19.00			
10	256QAM	1	49	18.81	19.00	19.00	20.4	0	
10	256QAM	1	25	18.85	19.00	19.02			
10	256QAM	25	0	18.85	19.00	19.00			
10	256QAM	25	12	18.83	18.90	18.79			
10	256QAM	25	25	18.87	19.00	19.00			
10	256QAM	50	0	18.84	19.00	19.07			
Channel									
Frequency (MHz)									
5	QPSK	1	12	19.02	19.00	19.07	20.4	0	
5	QPSK	1	24	19.01	19.00	19.10			
5	QPSK	1	36	19.00	19.00	19.00			
5	QPSK	12	7	19.05	19.02	19.06			
5	QPSK	12	13	19.04	19.02	19.00			
5	QPSK	25	0	19.00	19.00	19.00			
5	16QAM	1	0	19.04	19.00	19.00			
5	16QAM	1	12	19.01	19.00	19.03			
5	16QAM	12	7	19.00	19.00	19.00			
5	16QAM	12	13	19.03	19.01	19.01			
5	16QAM	25	0	19.06	19.00	19.07			
5	64QAM	1	0	19.02	19.00	19.00			
5	64QAM	1	12	19.01	19.00	19.03			
5	64QAM	12	7	19.00	19.00	19.00			
5	64QAM	12	13	19.03	19.01	19.01			
5	64QAM	25	0	19.06	19.00	19.07			
5	256QAM	1	0	19.02	19.00	19.00			
5	256QAM	1	12	19.01	19.00	19.03			
5	256QAM	12	7	19.00	19.00	19.00			
5	256QAM	12	13	19.03	19.01	19.01			
5	256QAM	25	0	19.06	19.00	19.07			
Channel									
Frequency (MHz)									
3	QPSK	1	0	19.08	19.17	19.02			
3	QPSK	1	8	19.08	19.06	19.06	20.4	0	
3	QPSK	1	14	19.08	19.03	19.12			
3	QPSK	8	0	19.05	19.07	19.06			
3	QPSK	8	4	19.06	19.00	19.06			
3	QPSK	8	7	19.02	19.00	19.06			
3	QPSK	15	0	19.00	19.00	19.00			
3	16QAM	1	0	19.00	19.00	19.00			
3	16QAM	1	8	19.03	19.00	19.07	20.4	0	
3	16QAM	8	0	19.00	19.00	19.00			
3	16QAM	8	4	19.07	19.00	19.01			
3	16QAM	8	7	19.07	19.00	19.01			
3	16QAM	15	0	19.00	19.00	19.00			
3	64QAM	1	0	19.00	19.00	19.01			
3	64QAM	1	8	19.07	19.00	19.01			
3	64QAM	8	0	19.00	19.00	19.00			
3	64QAM	8	4	19.06	19.00	19.04			
3	64QAM	8	7	19.02	19.04	19.78			
3	256QAM	1	0	19.00	19.00	19.00			
3	256QAM	1	8	19.06	19.04	19.08			
3	256QAM	8	0	19.01	19.00	19.04			
3	256QAM	8	4	19.07	19.00	19.04			
3	256QAM	8	7	19.02	19.00	19.04			
3	256QAM	15	0	19.04	19.07	19.77			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	19.04	19.00	19.00			
1.4	QPSK	1	3	19.02	19.00	19.11			
1.4	QPSK	1	5	19.00	19.00	19.12	20.4	0	
1.4	QPSK	3	0	19.00	19.00	19.00			
1.4	QPSK	3	1	19.03	19.01	19.05			
1.4	QPSK	3	3	19.00	19.00	19.01			
1.4	QPSK	3	5	19.02	19.00	19.00			
1.4	16QAM	1	0	19.06	19.00	19.01			
1.4	16QAM	1	3	19.00	19.00	19.00	20.4	0	
1.4	16QAM	1	5	19.70	19.00	19.00			
1.4	16QAM	3	0	19.06	19.00	19.01			
1.4	16QAM	3	3	19.00	19.00	19.00			
1.4	16QAM	3	5	19.70	19.00	19.00			
1.4	64QAM	1	0	19.06	19.00	19.01			
1.4	64QAM	1	3	19.00	19.00	19.00			
1.4	64QAM	1	5	19.70	19.00	19.00			
1.4	64QAM	3	0	19.02	19.00	19.04			
1.4	64QAM	3	3	19.07	19.00	19.00			
1.4	64QAM	3	5	19.70	19.00	19.00			
1.4	256QAM	1	0	19.06	19.00	19.01			
1.4	256QAM	1	3	19.00	19.00	19.00			
1.4	256QAM	1	5	19.70	19.00	19.00			
1.4	256QAM	3	0	19.02	19.00	19.04			
1.4	256QAM	3	3	19.07	19.00	19.00			
1.4	256QAM	3	5	19.70	19.00	19.00			
1.4	256QAM	5	0	19.78	19.00	19.75	20.4	0	

Band 4 Ant0 DS15 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Hsp / Ch / Freq	Power Hsp / Ch	Turn-on rate	MPE (dB)	
Channel 1									
20	QPSK	1	0	17.33	17.33	17.46			
20	QPSK	1	46	17.28	17.48	17.33		18.3	0
20	QPSK	50	0	17.33	17.33	17.46			
20	QPSK	50	0	17.44	17.48	17.33			
20	QPSK	50	24	17.37	17.46	17.19		18.3	0
20	QPSK	50	24	17.48	17.48	17.33			
20	QPSK	100	0	17.25	17.46	17.33			
20	QPSK	1	0	17.32	17.32	17.33			
20	QPSK	1	46	17.27	17.48	17.33		18.3	0
20	QPSK	50	50	17.34	17.36	17.20			
20	QPSK	50	50	17.48	17.48	17.33			
20	QPSK	50	50	17.29	17.20	17.23		18.3	0
20	QPSK	1	0	17.22	17.30	17.33			
20	QPSK	1	46	17.23	17.30	17.33			
20	QPSK	1	99	17.23	17.44	17.33			
20	QPSK	1	46	17.28	17.48	17.33			
20	QPSK	50	24	17.36	17.48	17.33			
20	QPSK	50	24	17.47	17.48	17.33		18.3	0
20	QPSK	100	0	17.22	17.28	17.23			
20	QPSK	1	0	17.32	17.34	17.33			
20	QPSK	1	46	17.23	17.44	17.33			
20	QPSK	50	50	17.31	17.33	17.29			
20	QPSK	50	50	17.21	17.21	17.29		18.3	0
20	QPSK	50	50	17.19	17.14	17.15			
20	QPSK	100	0	17.22	17.34	17.26	Turn-on rate	MPE (dB)	
Channel 2									
15	QPSK	1	0	17.15	17.32	17.47.5			
15	QPSK	1	46	17.22	17.37	17.48		18.3	0
15	QPSK	50	0	17.22	17.38	17.29			
15	QPSK	1	74	17.29	17.30	17.31			
15	QPSK	50	24	17.41	17.39	17.19			
15	QPSK	50	24	17.32	17.31	17.29			
15	QPSK	36	99	17.21	17.18	17.21			
15	QPSK	75	0	17.20	17.26	17.28			
15	QPSK	75	0	17.23	17.46	17.30			
15	QPSK	1	37	17.16	17.34	17.26		18.3	0
15	QPSK	1	74	17.17	17.38	17.29			
15	QPSK	36	26	17.23	17.25	17.29			
15	QPSK	36	26	17.14	17.21	17.68			
15	QPSK	36	36	17.17	17.15	17.13			
15	QPSK	36	36	17.13	17.25	17.29		18.3	0
15	QPSK	1	0	17.20	17.46	17.33			
15	QPSK	1	37	17.11	17.36	17.28			
15	QPSK	36	26	17.20	17.21	17.20			
15	QPSK	36	0	17.26	17.16	17.21		18.3	0
15	QPSK	36	0	17.16	17.18	17.20			
15	QPSK	75	0	17.19	17.19	17.20			
15	QPSK	1	37	17.13	17.46	17.32			
15	QPSK	1	74	17.21	17.25	17.29			
15	QPSK	1	74	17.22	17.43	17.22			
15	QPSK	36	26	17.21	17.22	17.24			
15	QPSK	36	26	17.11	17.22	17.24		18.3	0
15	QPSK	36	36	17.11	17.36	17.29			
15	QPSK	75	0	17.17	17.17	17.20			
15	QPSK	36	30	17.09	17.08	17.06	Turn-on rate	MPE (dB)	
Channel 3									
10	QPSK	1	0	17.15	17.32	17.53			
10	QPSK	1	46	17.29	17.47	17.39		18.3	0
10	QPSK	25	0	17.34	17.34	17.29			
10	QPSK	1	49	17.35	17.37	17.31			
10	QPSK	25	12	17.39	17.46	17.29			
10	QPSK	25	12	17.24	17.24	17.29		18.3	0
10	QPSK	25	26	17.27	17.19	17.13			
10	QPSK	25	26	17.21	17.26	17.29			
10	QPSK	1	49	17.21	17.46	17.33			
10	QPSK	1	26	17.22	17.27	17.26			
10	QPSK	1	26	17.12	17.27	17.25			
10	QPSK	25	12	17.23	17.25	17.29		18.3	0
10	QPSK	25	12	17.13	17.25	17.29			
10	QPSK	50	0	17.12	17.23	17.27			
10	QPSK	50	0	17.12	17.23	17.28			
10	QPSK	1	0	17.13	17.38	17.39			
10	QPSK	1	46	17.24	17.43	17.31		18.3	0
10	QPSK	1	49	17.22	17.28	17.19			
10	QPSK	25	0	17.24	17.14	17.22			
10	QPSK	25	12	17.24	17.24	17.29			
10	QPSK	25	26	17.22	17.10	17.21		18.3	0
10	QPSK	50	0	17.10	17.17	17.11			
10	QPSK	1	49	17.24	17.33	17.29			
10	QPSK	1	49	17.22	17.38	17.29			
10	QPSK	25	12	17.28	17.28	17.29		18.3	0
10	QPSK	25	12	17.15	17.18	17.26			
10	QPSK	25	26	17.22	17.03	17.24			
10	QPSK	25	26	17.12	17.12	17.24	Turn-on rate	MPE (dB)	
Channel 4									
5	QPSK	1	0	17.13	17.31	17.51			
5	QPSK	1	12	17.20	17.41	17.26		18.3	0
5	QPSK	1	24	17.38	17.41	17.27			
5	QPSK	12	0	17.28	17.28	17.26			
5	QPSK	12	0	17.30	17.27	17.11		18.3	0
5	QPSK	12	18	17.18	17.16	17.15			
5	QPSK	12	18	17.16	17.28	17.24			
5	QPSK	1	0	17.22	17.28	17.29			
5	QPSK	1	12	17.10	17.28	17.25			
5	QPSK	12	0	17.28	17.17	17.08			
5	QPSK	12	18	17.08	17.23	17.09		18.3	0
5	QPSK	12	18	17.17	17.28	17.27			
5	QPSK	25	0	17.13	17.24	17.12			
5	QPSK	12	14	17.14	17.35	17.27		18.3	0
5	QPSK	1	24	17.21	17.29	17.23			
5	QPSK	12	0	17.24	17.14	17.07			
5	QPSK	12	18	17.22	17.11	17.02		18.3	0
5	QPSK	12	18	17.21	17.21	17.21			
5	QPSK	1	12	17.18	17.30	17.29			
5	QPSK	1	12	17.26	17.32	17.08		18.3	0
5	QPSK	12	0	17.42	17.42	17.29			
5	QPSK	12	0	17.23	17.20	17.23			
5	QPSK	12	7	17.09	17.14	17.05		18.3	0
5	QPSK	25	0	17.13	17.28	17.19			
5	QPSK	25	0	17.13	17.28	17.19	Turn-on rate	MPE (dB)	
Channel 5									
3	QPSK	1	0	17.23	17.50	17.40			
3	QPSK	1	8	17.26	17.37	17.30		18.3	0
3	QPSK	8	0	17.30	17.30	17.26			
3	QPSK	8	0	17.42	17.45	17.21			
3	QPSK	8	8	17.32	17.34	17.06			
3	QPSK	16	0	17.17	17.18	17.29			
3	QPSK	16	0	17.12	17.31	17.24			
3	QPSK	1	0	17.23	17.42	17.30			
3	QPSK	1	8	17.29	17.32	17.26		18.3	0
3	QPSK	1	14	17.23	17.35	17.29			
3	QPSK	8	0	17.21	17.23	17.06			
3	QPSK	8	8	17.11	17.20	17.26			
3	QPSK	8	8	17.21	17.11	17.14			
3	QPSK	15	0	17.11	17.29	17.04			
3	QPSK	16	0	17.17	17.46	17.36			
3	QPSK	1	0	17.14	17.28	17.29		18.3	0
3	QPSK	1	14	17.20	17.21	17.21			
3	QPSK	8	8	17.18	17.18	17.24			
3	QPSK	8	8	17.19	17.03	17.18			
3	QPSK	8	8	17.30	17.24	17.11			
3	QPSK	1	0	17.15	17.48	17.29			
3	QPSK	1	0	17.21	17.34	17.07			
3	QPSK	16	14	17.20	17.46	17.29		18.3	0
3	QPSK	8	0	17.28	17.28	17.17			
3	QPSK	8	0	17.17	17.17	17.06			
3	QPSK	8	0	17.12	17.20	17.06			
3	QPSK	15	0	17.10	17.21	17.15	Turn-on rate	MPE (dB)	
Channel 6									
14	QPSK	1	0	17.10	17.53	17.54.3			
14	QPSK	1	0	17.24	17.54	17.39		18.3	0
14	QPSK	1	3	17.22	17.45	17.25			
14	QPSK	3	0	17.23	17.45	17.25			
14	QPSK	3	0	17.37	17.37	17.29			
14	QPSK	3	0	17.32	17.36	17.13			
14	QPSK	5	0	17.14	17.32	17.24		18.3	0
14	QPSK	1	0	17.29	17.39	17.31			
14	QPSK	1	0	17.09	17.28	17.17			
14	QPSK	1	0	17.20	17.30	17.22			
14	QPSK	3	0	17.29	17.29	17.26		18.3	0
14	QPSK	3	0	17.19	17.43	17.25			
14	QPSK	3	0	17.17	17.36	17.29			
14	QPSK	1	0	17.32	17.48	17.23			
14	QPSK	3	0	17.17	17.31	17.26		18.3	0
14	QPSK	3	0	17.19	17.09	17.07			
14	QPSK	3	0	17.13	17.09	17.13			



Band 14 Ant0 DSI5 Simultaneous								
SW Band	Modulator	RF Bw	RF Offset	Power Level Ch. 1/Freq.	Power Level Ch. 2/Freq.	Power Level Ch. 3/Freq.	Transmit Rate (Mbps)	MPEK (dB)
Channel				23000				
Frequency (MHz)				Ch. 1/Freq.	Ch. 2/Freq.	Ch. 3/Freq.		
10	QPSK	1	0	21.88	21.88	21.88	23	0
10	QPSK	1	25	21.81	21.81	21.81		
10	QPSK	1	50	21.72	21.72	21.72		
10	QPSK	25	0	21.80	21.80	21.80		
10	QPSK	25	12	21.65	21.65	21.65		
10	QPSK	25	25	21.76	21.76	21.76		
10	16QAM	1	0	21.68	21.68	21.68	23	0
10	16QAM	1	25	21.70	21.70	21.70		
10	16QAM	1	49	21.62	21.62	21.62		
10	16QAM	25	0	21.70	21.70	21.70		
10	16QAM	25	12	21.68	21.68	21.68		
10	16QAM	25	25	21.63	21.63	21.63		
10	16QAM	50	0	21.65	21.65	21.65	23	0
10	16QAM	50	12	21.75	21.75	21.75		
10	16QAM	1	25	21.74	21.74	21.74		
10	64QAM	1	49	21.69	21.69	21.69		
10	64QAM	25	0	21.67	21.67	21.67		
10	64QAM	25	12	21.65	21.65	21.65		
10	64QAM	25	25	21.60	21.60	21.60	23	0
10	64QAM	25	50	21.51	21.51	21.51		
10	256QAM	1	0	20.33	20.33	20.33		
10	256QAM	1	25	20.23	20.23	20.23		
10	256QAM	1	49	20.28	20.28	20.28		
10	256QAM	25	0	20.21	20.21	20.21		
10	256QAM	25	12	20.14	20.14	20.14	21	2
10	256QAM	25	25	20.13	20.13	20.13		
10	256QAM	50	0	20.14	20.14	20.14		
Channel				23005	23000	23005		
Frequency (MHz)				Ch. 1/Freq.	Ch. 2/Freq.	Ch. 3/Freq.		
5	QPSK	1	0	21.77	21.88	21.78	23	0
5	QPSK	1	12	21.72	21.71	21.78		
5	QPSK	1	24	21.66	21.63	21.68		
5	QPSK	12	0	21.76	21.76	21.76		
5	QPSK	12	7	21.51	21.61	21.51		
5	QPSK	12	14	21.70	21.68	21.68		
5	QPSK	25	0	21.63	21.65	21.64	23	0
5	16QAM	1	6	21.68	21.70	21.68		
5	16QAM	1	12	21.67	21.61	21.63		
5	16QAM	1	18	21.49	21.58	21.57		
5	16QAM	12	0	21.86	21.64	21.68		
5	16QAM	12	6	21.63	21.63	21.63		
5	16QAM	12	18	21.60	21.50	21.50	23	0
5	16QAM	25	0	21.53	21.68	21.58		
5	16QAM	25	6	21.65	21.65	21.65		
5	16QAM	1	12	21.54	21.69	21.68		
5	64QAM	1	24	21.54	21.60	21.58		
5	64QAM	1	12	21.59	21.59	21.59	23	0
5	64QAM	12	0	21.48	21.48	21.44		
5	64QAM	12	18	21.57	21.52	21.57		
5	64QAM	25	0	21.54	21.52	21.49		
5	64QAM	25	12	21.55	21.55	21.55		
5	256QAM	1	12	20.07	20.15	20.13		
5	256QAM	1	24	20.19	20.29	20.20	21	2
5	256QAM	12	0	20.05	20.16	20.15		
5	256QAM	12	7	20.02	20.11	20.07		
5	256QAM	12	15	20.02	20.07	20.00	21	2
5	256QAM	25	0	20.00	20.00	20.00		

[illegible]



Band 25 Ant0 DSIS Simultaneous												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Fires	Power Middle Ch./Fires	Power High Ch./Fires	Time-up (ms)	MPR (dB)				
Channel												
Frequency (MHz)												
1800 1880 1900												
20	QPSK	1	0	19.11	19.20	19.17	20.4	0				
15	QPSK	1	49	19.10	19.23	19.24						
20	QPSK	1	99	19.05	19.19	19.20						
20	QPSK	50	0	19.05	19.20	19.14	20.4	0				
20	QPSK	50	24	19.04	19.17	19.08						
20	QPSK	50	50	19.04	19.11	19.09						
20	QPSK	100	0	19.08	19.14	19.04	20.4	0				
20	16QAM	1	0	19.09	19.12	19.11						
20	16QAM	1	49	19.05	19.12	19.15						
20	16QAM	1	99	19.02	19.06	19.12	20.4	0				
20	16QAM	50	0	19.09	19.07	19.02						
20	16QAM	50	24	19.01	19.08	19.02						
20	16QAM	50	50	19.01	19.02	19.04	20.4	0				
20	16QAM	100	0	19.03	19.11	19.04						
20	64QAM	1	0	19.00	19.20	19.13	20.4	0				
20	64QAM	1	49	19.03	19.15	19.11						
20	64QAM	1	99	19.06	19.10	19.15						
20	64QAM	50	0	19.06	19.10	19.09	20.4	0				
20	64QAM	50	24	19.01	19.12	19.03						
20	64QAM	50	50	19.01	19.05	19.05						
20	64QAM	100	0	19.07	19.08	19.09	20.4	0				
20	256QAM	1	0	19.06	19.17	19.11						
20	256QAM	1	49	19.01	19.10	19.09						
20	256QAM	1	99	19.04	19.14	19.18	20.4	0				
20	256QAM	50	0	19.09	19.10	19.04						
20	256QAM	50	24	19.07	19.13	19.07						
20	256QAM	50	50	19.01	19.08	19.07	20.4	0				
20	256QAM	100	0	19.03	19.07	19.07						
Channel												
Frequency (MHz)												
1807.5 1880 1907.5												
15	QPSK	1	0	19.00	19.13	19.12	20.4	0				
10	QPSK	1	37	19.03	19.10	19.19						
15	QPSK	1	74	19.02	19.12	19.15						
10	QPSK	36	0	19.01	19.16	19.07	20.4	0				
15	QPSK	36	20	19.01	19.11	19.03						
10	QPSK	36	39	19.03	19.07	19.05						
10	QPSK	75	0	19.00	19.02	19.06	20.4	0				
15	16QAM	1	0	19.06	19.02	19.08						
15	16QAM	1	37	19.01	19.08	19.09	20.4	0				
15	16QAM	1	74	19.06	19.09	19.07						
15	16QAM	36	0	19.03	19.09	19.07	20.4	0				
15	16QAM	36	20	19.00	19.08	19.04						
15	16QAM	36	39	19.04	19.09	19.02						
15	64QAM	1	0	19.04	19.18	19.09	20.4	0				
15	64QAM	1	37	19.04	19.09	19.03						
15	64QAM	1	74	19.01	19.02	19.09						
15	64QAM	36	0	19.03	19.02	19.09	20.4	0				
15	64QAM	36	20	19.03	19.05	19.06						
15	64QAM	36	39	19.04	19.02	19.02						
15	64QAM	75	0	19.01	19.01	19.06						
15	256QAM	1	0	19.04	19.10	19.14	20.4	0				
15	256QAM	1	37	19.04	19.10	19.15						
15	256QAM	1	74	19.09	19.12	19.11						
15	256QAM	36	0	19.06	19.12	19.04						
15	256QAM	36	20	19.08	19.09	19.03	20.4	0				
15	256QAM	36	39	19.00	19.09	19.03						
15	256QAM	75	0	19.03	19.05	19.03						
Channel												
Frequency (MHz)												
1855 1880 1910												
10	QPSK	1	0	19.03	19.10	19.10	20.4	0				
10	QPSK	1	25	19.01	19.19	19.16						
10	QPSK	1	49	19.06	19.10	19.10		20.4	0			
10	QPSK	25	0	19.09	19.09	19.04						
10	QPSK	25	13	19.06	19.09	19.03	20.4	0				
10	QPSK	25	26	19.06	19.04	19.07						
10	QPSK	50	0	19.00	19.02	19.02		20.4	0			
10	16QAM	1	0	19.02	19.09	19.03						
10	16QAM	1	25	19.01	19.02	19.04	20.4	0				
10	16QAM	1	49	19.03	19.09	19.03						
10	16QAM	25	0	19.07	19.09	19.03	20.4	0				
10	16QAM	25	13	19.78	19.06	19.04						
10	16QAM	25	26	19.00	19.00	19.12						
10	16QAM	50	0	19.08	19.03	19.03						
10	64QAM	1	0	19.05	19.16	19.03	20.4	0				
10	64QAM	1	25	19.02	19.10	19.09						
10	64QAM	1	49	19.06	19.09	19.11						
10	64QAM	25	0	19.08	19.06	19.03						
10	64QAM	25	13	19.01	19.06	19.09	20.4	0				
10	64QAM	25	26	19.09	19.07	19.06						
10	64QAM	50	0	19.02	19.05	19.00						
10	256QAM	1	0	19.00	19.12	19.05						
10	256QAM	1	25	19.09	19.14	19.13	20.4	0				
10	256QAM	1	49	19.05	19.14	19.14						
10	256QAM	25	0	19.01	19.09	19.03						
10	256QAM	25	13	19.02	19.07	19.07						
10	256QAM	25	26	19.07	19.02	19.00	20.4	0				
10	256QAM	50	0	19.04	19.02	19.09						
Channel												
Frequency (MHz)												
1865 1880 1910												
5	QPSK	1	0	19.74	19.22	19.12	20.4	0				
5	QPSK	1	12	19.08	19.14	19.19						
5	QPSK	1	24	19.01	19.05	19.09		20.4	0			
5	QPSK	12	0	19.09	19.09	19.04						
5	QPSK	12	7	19.01	19.04	19.07	20.4	0				
5	QPSK	12	13	19.04	19.09	19.02						
5	QPSK	25	0	19.01	19.11	19.02		20.4	0			
5	16QAM	1	0	19.08	19.09	19.06						
5	16QAM	1	12	19.03	19.04	19.10	20.4	0				
5	16QAM	1	24	19.06	19.06	19.04						
5	16QAM	12	0	19.01	19.07	19.06	20.4	0				
5	16QAM	12	7	19.07	19.02	19.05						
5	16QAM	12	14	19.02	19.07	19.14						
5	16QAM	25	0	19.01	19.07	19.06						
5	64QAM	1	0	19.07	19.09	19.09	20.4	0				
5	64QAM	1	12	19.07	19.07	19.03						
5	64QAM	1	24	19.04	19.09	19.01						
5	64QAM	12	0	19.08	19.06	19.04						
5	64QAM	12	7	19.05	19.02	19.06	20.4	0				
5	64QAM	12	14	19.05	19.02	19.09						
5	64QAM	25	0	19.06	19.09	19.06						
5	64QAM	25	13	19.08	19.01	19.04						
5	256QAM	1	0	19.09	19.16	19.06	20.4	0				
5	256QAM	1	12	19.05	19.19	19.17						
5	256QAM	1	24	19.07	19.06	19.15						
5	256QAM	12	0	19.02	19.10	19.09						
5	256QAM	12	7	19.03	19.14	19.01	20.4	0				
5	256QAM	12	14	19.07	19.03	19.06						
5	256QAM	25	0	19.03	19.09	19.09		20.4	0			
5	256QAM	25	13	19.05								

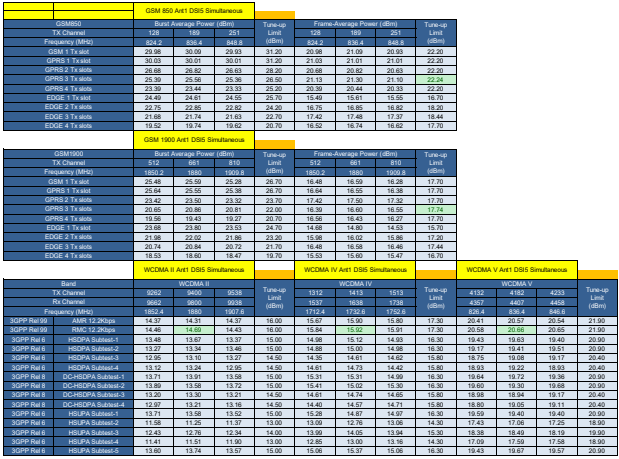
Band 30 Ant0 DSI5 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power Hgh Ch./Freq.	Tune-up (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	17.30	17.30	17.30	18.3	0	
10	QPSK	1	25	17.20	17.20	17.20			
10	QPSK	1	49	17.08	17.08	17.08			
10	QPSK	25	0	17.20	17.20	17.20	18.3	0	
10	QPSK	25	12	17.14	17.14	17.14			
10	QPSK	25	25	17.11	17.11	17.11			
10	QPSK	50	0	17.16	17.16	17.16	18.3	0	
10	16QAM	1	0	17.20	17.20	17.20			
10	16QAM	1	25	17.05	17.05	17.05			
10	16QAM	1	49	17.14	17.14	17.14	18.3	0	
10	16QAM	1	75	17.14	17.14	17.14			
10	16QAM	25	12	17.08	17.08	17.08			
10	16QAM	25	25	17.08	17.08	17.08	18.3	0	
10	16QAM	50	0	17.13	17.13	17.13			
10	16QAM	1	0	17.25	17.25	17.25			
10	84QAM	1	25	17.07	17.07	17.07	18.3	0	
10	84QAM	1	49	17.07	17.07	17.07			
10	84QAM	25	0	17.19	17.19	17.19			
10	84QAM	25	12	17.05	17.05	17.05	18.3	0	
10	84QAM	25	25	17.08	17.08	17.08			
10	84QAM	50	0	17.03	17.03	17.03			
10	256QAM	1	0	16.35	16.35	16.35	18	0.3	
10	256QAM	1	25	16.29	16.29	16.29			
10	256QAM	1	49	16.32	16.32	16.32			
10	256QAM	25	0	16.29	16.29	16.29	18	0.3	
10	256QAM	25	12	16.29	16.29	16.29			
10	256QAM	25	25	16.23	16.23	16.23			
10	256QAM	50	0	16.25	16.25	16.25			
Channel									
Frequency (MHz)									
5	QPSK	1	0	17.24	17.22	17.20	18.3	0	
5	QPSK	1	12	17.13	17.08	17.15			
5	QPSK	1	24	17.19	17.12	17.14			
5	QPSK	12	0	17.20	17.12	17.12	18.3	0	
5	QPSK	12	7	17.11	17.07	17.08			
5	QPSK	12	13	17.00	17.03	16.99			
5	QPSK	25	0	17.08	17.03	17.08	18.3	0	
5	16QAM	1	0	17.17	17.15	17.18			
5	16QAM	1	12	17.10	17.09	17.12			
5	16QAM	1	24	17.00	17.09	17.09	18.3	0	
5	16QAM	12	0	17.06	17.04	17.03			
5	16QAM	12	7	17.01	16.97	16.97			
5	16QAM	12	13	16.98	16.95	16.97	18.3	0	
5	84QAM	1	0	17.11	17.07	17.08			
5	84QAM	1	24	16.97	17.01	16.99			
5	84QAM	12	0	17.17	17.15	17.14	18.3	0	
5	84QAM	12	7	16.98	16.95	16.97			
5	84QAM	12	13	17.00	16.98	17.01			
5	84QAM	25	0	16.99	16.99	16.90	18	0.3	
5	256QAM	1	0	16.26	16.27	16.16			
5	256QAM	1	24	16.24	16.27	16.18			
5	256QAM	12	0	16.20	16.26	16.17	18	0.3	
5	256QAM	12	7	16.10	16.19	16.10			
5	256QAM	12	13	16.08	16.15	16.10			
5	256QAM	24	0	16.08	16.17	16.00			

Band 66 Ant0 DSI5 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power Hgh Ch./Freq.	Tune-up (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.43	17.44	17.54	18.3	0	
20	QPSK	1	49	17.42	17.57	17.42			
20	QPSK	1	99	17.46	17.59	17.45			
20	QPSK	50	0	17.49	17.51	17.37	18.3	0	
20	QPSK	50	24	17.43	17.45	17.30			
20	QPSK	50	50	17.43	17.33	17.36			
20	QPSK	100	0	17.34	17.44	17.34	18.3	0	
20	16QAM	1	0	17.39	17.59	17.42			
20	16QAM	1	49	17.34	17.51	17.35			
20	16QAM	1	99	17.33	17.54	17.37	18.3	0	
20	16QAM	50	0	17.40	17.41	17.33			
20	16QAM	50	24	17.29	17.41	17.17			
20	16QAM	50	50	17.34	17.35	17.27	18.3	0	
20	16QAM	100	0	17.28	17.41	17.30			
20	84QAM	1	0	17.36	17.55	17.41	18.3	0	
20	84QAM	1	49	17.31	17.47	17.37			
20	84QAM	50	0	17.39	17.40	17.31			
20	84QAM	50	24	17.36	17.39	17.22	18.3	0	
20	84QAM	50	50	17.31	17.31	17.26			
20	84QAM	100	0	17.28	17.40	17.27			
20	256QAM	1	0	17.37	17.59	17.49	18.3	0	
20	256QAM	1	49	17.35	17.43	17.35			
20	256QAM	1	99	17.39	17.58	17.36			
20	256QAM	50	0	17.36	17.41	17.40	18.3	0	
20	256QAM	50	24	17.31	17.34	17.19			
20	256QAM	50	50	17.32	17.28	17.26			
20	256QAM	100	0	17.27	17.40	17.27			
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.36	17.41	17.51	18.3	0	
15	QPSK	1	37	17.36	17.48	17.39			
15	QPSK	1	74	17.38	17.47	17.34			
15	QPSK	36	0	17.43	17.42	17.27	18.3	0	
15	QPSK	36	18	17.40	17.41	17.22			
15	QPSK	36	36	17.37	17.22	17.31			
15	16QAM	75	0	17.24	17.32	17.32	18.3	0	
15	16QAM	1	0	17.27	17.54	17.39			
15	16QAM	1	37	17.28	17.49	17.31			
15	16QAM	1	74	17.37	17.48	17.37	18.3	0	
15	16QAM	36	0	17.37	17.51	17.37			
15	16QAM	36	74	17.30	17.33	17.22			
15	16QAM	36	20	17.22	17.31	17.04	18.3	0	
15	16QAM	36	50	17.26	17.38	17.26			
15	16QAM	75	0	17.16	17.37	17.22			
15	84QAM	1	0	17.23	17.46	17.37	18.3	0	
15	84QAM	1	37	17.25	17.51	17.37			
15	84QAM	1	74	17.30	17.41	17.33			
15	84QAM	36	0	17.32	17.28	17.26	18.3	0	
15	84QAM	36	74	17.26	17.34	17.25			
15	84QAM	36	36	17.37	17.05	17.25			
15	84QAM	75	0	17.25	17.28	17.22	18.3	0	
15	256QAM	1	0	17.26	17.50	17.19			
15	256QAM	1	74	17.25	17.43	17.26			
15	256QAM	36	0	17.32	17.36	17.25	18.3	0	
15	256QAM	36	20	17.17	17.32	17.06			
15	256QAM	36	36	17.21	17.15	17.14			
15	256QAM	75	0	17.15	17.24	17.24			
Channel									
Frequency (MHz)									
5	QPSK	1	0	17.15	17.45	17.75	18.3	0	
5	QPSK	1	25	17.37	17.47	17.37			
5	QPSK	1	49	17.40	17.48	17.40			
5	QPSK	12	0	17.38	17.38	17.38	18.3	0	
5	QPSK	12	7	17.32	17.32	17.24			
5	QPSK	12	13	17.34	17.28	17.27			
5	QPSK	25	0	17.36	17.34	17.27	18.3	0	
5	16QAM	1	0	17.25	17.40	17.29			
5	16QAM	1	25	17.27	17.48	17.29			
5	16QAM	1	49	17.20	17.48	17.29	18.3	0	
5	16QAM	25	0	17.34	17.33	17.25			
5	16QAM	25	12	17.27	17.27	17.11			
5	16QAM	25	25	17.18	17.18	17.18	18.3	0	
5	16QAM	50	0	17.22	17.33	17.20			
5	84QAM	1	0	17.33	17.53	17.34	18.3	0	
5	84QAM	1	24	17.37	17.47	17.37			
5	84QAM	1	49	17.40	17.48	17.40			
5	84QAM	12	0	17.38	17.38	17.38			
5	84QAM	12	7	17.32	17.32	17.24			
5	84QAM	12	13	17.34	17.28	17.27			
5	84QAM	25	0	17.36	17.34	17.27			
5	16QAM	1	0	17.25	17.40	17.29			
5	16QAM	1	25	17.27	17.48	17.29			
5	16QAM	1	49	17.20	17.48	17.29			
5	16QAM	25	0	17.34	17.33	17.25			
5	16QAM	25	12	17.27	17.27	17.11			
5	16QAM	25	25	17.18	17.18	17.18			
5	16QAM	50	0	17.22	17.33	17.20			
5	84QAM	1	0	17.33	17.53	17.34			
5	84QAM	1	24	17.37	17.47	17.37			
5	84QAM	1	49	17.40	17.48	17.40			
5	84QAM	12	0	17.38	17.38	17.38			
5	84QAM	12	7	17.32	17.32	17.24			
5	84QAM	12	13	17.34	17.28	17.27			
5	84QAM	25	0	17.36	17.34	17.27			
5	16QAM	1	0	17.25	17.40	17.29			
5	16QAM	1	25	17.27	17.48	17.29			
5	16QAM	1	49	17.20	17.48	17.29			
5	16QAM	25	0	17.34	17.33	17.25			
5	16QAM	25	12	17.27	17.27	17.11			
5	16QAM	25	25	17.18	17.18	17.18			
5	16QAM	50	0	17.22	17.33	17.20			
5	84QAM	1	0	17.33	17.53	17.34			
5	84QAM	1	24	17.37	17.47	17.37			
5	84QAM	1	49	17.40	17.48	17.40			
5	84QAM	12	0	17.38	17.38	17.38			
5	84QAM	12	7	17.32	17.32	17.24			
5	84QAM	12	13	17.34	17.28	17.27			
5	84QAM	25	0	17.36	17.34	17.27			
5	16QAM	1	0	17.25	17.40	17.29			
5	16QAM	1	25	17.27	17.48	17.29			
5	16QAM	1	49	17.20	17.48	17.29			
5	16QAM	25	0	17.34	17.33	17.25			
5	16QAM	25	12	17.27	17.27	17.11			
5	16QAM	25	25	17.18	17.18	17.18			
5	16QAM	50	0	17.22	17.33	17.20			
5	84QAM	1	0	17.33	17.53	17.34			
5	84QAM	1	24	17.37	17.47	17.37			
5	84QAM	1	49	17.40	17.48	17.40			
5	84QAM	12	0	17.38	17.38	17.38			
5	84QAM	12	7	17.32	17.32	17.24			
5	84QAM	12	13	17.34	17.28	17.27			
5	84QAM	25	0	17.36	17.34	17.27			
5	16QAM	1	0	17.25	17.40	17.29			
5	16QAM	1	25	17.27	17.48	17.29			
5	16QAM	1	49	17.20	17.48	17.29			
5	16QAM	25	0	17.34	17.33	17.25			
5	16QAM	25	12	17.27	17.27	17.11			
5	16QAM	25	25	17.18	17.18	17.18			
5	16QAM	50	0	17.22	17.33	17.20			
5	84QAM	1	0	17.33	17.53	17.34			
5	84QAM	1	24	17.37	17.47	17.37			
5	84QAM	1	49	17.40	17.48	17.40			
5	84QAM	12	0	17.38	17.38	17.38			
5	84QAM	12	7	17.32	17.32	17.24			
5	84QAM	12	13	17.34	17.28	17.27			
5	84QAM	25	0	17.36	17.34	17.27			
5	16QAM	1	0	17.25	17.40	17.29			
5	16QAM	1	25	17.27	17.48	17.29			
5	16QAM	1	49	17.20	17.48	17.29			
5	16QAM	25	0	17.34	17.33	17.25			
5	16QAM	25	12	17.27	17.27	17.11			
5	16QAM	25	25	17.18	17.18	17.18			
5	16QAM	50	0	17.22	17.33	17.20			
5	84QAM	1	0	17.33	17.53	17.34			
5	84QAM	1	24	17.37	17.47	17.37			
5	84QAM	1	49	17.40	17.48	17.40			
5	84QAM	12	0	17.38	17.38	17.38			
5	84QAM	12	7	17.32	17.32	17.24			
5	84QAM	12	13	17.34	17.28	17.27			
5	84QAM	25	0	17.36	17.34	17.27			
5	16QAM	1	0	17.25	17.40	17.29			
5	16QAM	1	25	17.27	17.48	17.29			
5	16QAM	1	49	17.20	17.48	17.29			
5	16QAM	25	0	17.34	17.33	17.25			
5	16QAM	25	12	17.27	17.27	17.11			
5	16QAM	25	25	17.18	17.18	17.18			
5	16QAM	50	0	17.22	17.33	17.20			
5	84QAM	1	0	17.33	17.53	17.34			
5	84QAM	1	24	17.37	17.47	17.37			
5	84QAM	1	49	17.40	17.48	17.40			
5	84QAM	12	0	17.38	17.38	17.38			
5	84QAM	12	7	17.32	17.32	17.24			
5	84QAM	12	13	17.34	17.28	17.27			
5	84QAM	25	0	17.36	17.34	17.27			
5	16QAM	1	0	17.25	17.40	17.29			
5	16QAM	1	25	17.27	17.48	17.29			
5	16QAM	1	49	17.20	17.48	17.29			
5	16QAM	25	0	17.34	17.33	17.25			
5	16QAM	25							



Band 38 Ant0 DS15 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37950	38050	38150			
20	QPSK	1	0	18.23	18.55	18.43			
20	QPSK	1	49	18.22	18.40	18.26	19.8	0	
20	QPSK	50	0	18.26	18.58	18.20			
20	QPSK	50	0	18.22	18.42	18.31			
20	QPSK	50	24	18.08	18.36	18.38	19.8	0	
20	QPSK	100	0	18.21	18.53	18.15			
20	QPSK	100	0	18.09	18.22	18.17			
20	QPSK	1	0	18.26	18.29	18.23	19.8	0	
20	HQAM	1	49	18.09	18.23	18.15			
20	HQAM	1	99	18.14	18.19	18.22			
20	HQAM	50	24	18.17	18.26	18.15			
20	HQAM	50	24	18.17	18.29	18.21	19.8	0	
20	HQAM	100	0	18.21	18.22	18.20			
20	HQAM	100	0	17.97	18.22	18.15			
20	HQAM	1	49	18.11	18.16	18.10	19.8	0	
20	HQAM	1	99	18.15	18.17	18.11			
20	HQAM	50	0	17.84	17.92	17.83			
20	HQAM	50	24	17.73	17.86	17.74			
20	HQAM	50	50	17.71	17.84	17.73			
20	HQAM	100	0	17.71	17.82	17.76	19	0.8	
20	25QAM	1	0	15.92	15.93	15.91			
20	25QAM	1	49	15.93	15.98	15.75	17	2.8	
20	25QAM	1	99	15.87	15.91	15.76			
20	25QAM	50	0	15.88	15.92	15.81			
20	25QAM	50	24	15.78	15.87	15.74	17	2.8	
20	25QAM	50	50	15.71	15.78	15.71			
20	25QAM	100	0	15.71	15.73	15.71			
Channel									
Frequency (MHz)				37950	38050	38150	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	18.13	18.45	18.43			
15	QPSK	1	37	18.09	18.38	18.18	19.8	0	
15	QPSK	1	74	18.13	18.25	18.16			
15	QPSK	36	0	18.19	18.27	18.21			
15	QPSK	36	20	17.97	18.27	18.31	19.8	0	
15	QPSK	36	36	18.06	18.19	18.15			
15	QPSK	75	0	18.00	18.16	18.11			
15	HQAM	1	0	18.20	18.25	18.20	19.8	0	
15	HQAM	1	37	18.05	18.13	18.06			
15	HQAM	1	74	18.10	18.00	18.11			
15	HQAM	36	0	18.20	18.26	18.11			
15	HQAM	36	20	18.05	18.23	18.08	19.8	0	
15	HQAM	36	36	18.04	18.18	18.16			
15	HQAM	75	0	18.17	18.18	18.13			
15	HQAM	75	0	17.89	18.19	18.08	19.8	0	
15	HQAM	1	37	18.00	18.19	17.97			
15	HQAM	1	74	18.10	18.06	18.01			
15	HQAM	36	0	17.75	17.84	17.75	19	0.8	
15	HQAM	36	20	17.62	17.82	17.71			
15	HQAM	36	36	18.00	18.05	18.00			
15	HQAM	75	0	17.66	17.75	17.66	17	2.8	
15	25QAM	1	0	15.79	15.86	15.82			
15	25QAM	1	37	15.80	15.85	15.75	19	0.8	
15	25QAM	1	74	15.84	15.85	15.85			
15	25QAM	36	0	15.79	15.77	15.87			
15	25QAM	36	20	15.75	15.84	15.73	17	2.8	
15	25QAM	36	36	15.84	15.86	15.85			
15	25QAM	75	0	15.75	15.80	15.82			
Channel									
Frequency (MHz)				25715	25715	25715	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	18.16	18.47	18.30			
10	QPSK	1	25	18.15	18.27	18.18	19.8	0	
10	QPSK	1	49	18.15	18.30	18.11			
10	QPSK	1	74	18.15	18.35	18.25			
10	QPSK	25	12	17.96	18.23	18.36	19.8	0	
10	QPSK	25	25	18.14	18.17	18.05			
10	QPSK	25	49	18.00	18.05	18.15			
10	HQAM	1	0	18.21	18.17	18.14	19.8	0	
10	HQAM	1	25	18.03	18.16	18.07			
10	HQAM	1	49	18.00	18.05	18.15			
10	HQAM	25	0	18.16	18.19	18.01			
10	HQAM	25	12	18.06	18.21	18.08	19.8	0	
10	HQAM	25	25	18.04	18.23	18.14			
10	HQAM	50	0	18.13	18.12	18.18			
10	HQAM	50	0	18.04	18.24	18.14	19.8	0	
10	HQAM	1	25	18.00	18.11	18.04	19.8	0	
10	HQAM	1	49	18.01	18.09	18.08			
10	HQAM	25	0	17.72	17.80	17.78	19	0.8	
10	HQAM	25	12	17.88	17.75	17.66			
10	HQAM	25	25	17.59	17.75	17.60			
10	HQAM	50	0	17.64	17.74	17.66			
10	25QAM	1	0	15.79	15.86	15.81			
10	25QAM	1	25	15.75	15.80	15.73	17	2.8	
10	25QAM	1	49	15.80	15.87	15.85			
10	25QAM	25	0	15.70	15.77	15.69			
10	25QAM	25	12	15.75	15.78	15.66	17	2.8	
10	25QAM	25	25	15.59	15.74	15.65			
10	25QAM	50	0	15.68	15.70	15.67			

Band 41 Ant0 DS15 Simultaneous											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
20	QPSK	1	0	18.20	18.32	18.33	18.37	18.12			
20	QPSK	1	49	18.24	18.31	18.44	18.34	18.14		19.8	0
20	QPSK	50	0	18.26	18.35	18.43	18.30	18.11			
20	QPSK	50	0	18.22	18.33	18.49	18.39	18.12			
20	QPSK	50	24	18.11	18.19	18.40	18.41	18.08		19.8	0
20	QPSK	100	0	18.20	18.33	18.33	18.20	18.20			
20	QPSK	100	0	18.16	18.19	18.33	18.28	18.08			
20	16QAM	1	0	18.34	18.30	18.35	18.30	18.20			
20	16QAM	50	24	18.22	18.17	18.22	18.20	18.20		19.8	0
20	16QAM	1	99	18.24	18.19	18.20	18.38	18.20			
20	16QAM	50	0	18.25	18.23	18.21	18.21	17.98			
20	16QAM	50	24	18.16	18.26	18.37	18.25	18.09		19.8	0
20	16QAM	50	50	18.14	18.17	18.38	18.26	17.99			
20	16QAM	100	0	18.20	18.24	18.20	18.20	18.20			
20	16QAM	100	0	17.97	18.09	18.20	18.25	18.05			
20	16QAM	1	49	18.08	18.15	18.27	18.13	17.85		19.8	0
20	16QAM	1	99	18.08	18.21	18.27	18.17	17.90			
20	16QAM	50	0	18.12	18.31	18.36	18.24	18.25			
20	16QAM	50	24	18.15	18.23	18.44	18.19	18.01		19.8	0
20	16QAM	50	50	18.18	18.25	18.37	18.20	18.10			
20	16QAM	100	0	18.17	18.26	18.31	18.28	18.19			
20	25QAM	1	0	18.20	18.23	18.30	18.26	17.96			
20	25QAM	1	49	18.05	18.15	18.41	18.35	18.01		19.8	0
20	25QAM	1	99	18.07	18.13	18.23	18.22	17.87			
20	25QAM	50	0	18.12	18.25	18.31	18.20	18.03			
20	25QAM	50	24	18.20	18.20	18.37	18.24	18.23		19.8	0
20	25QAM	50	50	18.03	18.09	18.18	18.18	18.22			
20	25QAM	100	0	18.17	18.16	18.33	18.21	18.21			
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
15	QPSK	1	0	18.17	18.29	18.31	18.32	18.19			
15	QPSK	1	37	18.16	18.18	18.31	18.21	18.09		20	0
15	QPSK	1	74	18.15	18.28	18.30	18.16	18.00			
15	QPSK	36	0	18.18	18.24	18.43	18.32	18.07			
15	QPSK	36	20	18.00	18.13	18.36	18.26	17.88		19.8	0
15	QPSK	75	0	18.11	18.08	18.22	18.24	18.03			
15	16QAM	1	0	18.21	18.18	18.23	18.21	18.22		19.8	0
15	16QAM	1	37	18.07	18.09	18.20	18.20	18.08			
15	16QAM	1	74	18.15	18.08	18.07	18.20	18.15			
15	16QAM	36	0	18.04	18.18	18.31	18.12	17.85			
15	16QAM	36	20	18.05	18.12	18.30	18.20	17.81		19.8	0
15	16QAM	36	36	18.01	18.08	18.34	18.20	17.81			
15	16QAM	75	0	18.15	18.26	18.26	18.26	17.81			
15	16QAM	75	0	17.89	17.85	18.19	18.15	17.88		19.8	0
15	16QAM	1	37	18.00	18.02	18.14	18.00	17.90			
15	16QAM	1	74	17.99	18.19	18.21	18.11	17.82			
15	16QAM	36	0	18.06	18.27	18.23	18.12	18.03			
15	16QAM	36	20	18.05	18.17	18.31	18.14	17.88		19.8	0
15	16QAM	36	36	18.00	18.15	18.15	18.15	17.88			
15	16QAM	75	0	18.08	18.18	18.21	18.16	17.86		19.8	0
15	25QAM	1	0	18.08	18.18	18.21	18.16	17.86			
15	25QAM	1	37	17.93	18.04	18.21	18.03	17.88		19.8	0
15	25QAM	1	74	17.98	18.08	18.20	18.13	17.85			
15	25QAM	36	0	18.08	18.04	18.20	18.11	18.01			
15	25QAM	36	20	18.05	18.10	18.30	18.17	17.87		19.8	0
15	25QAM	36	36	18.01	18.05	18.31	18.02	18.00		19.8	0
15	25QAM	75	0	18.19	18.19	18.32	18.22	18.17			
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
10	QPSK	1	0	18.20	18.32	18.33	18.37	18.12			
10	QPSK	1	25	18.19	18.22	18.32	18.23	18.08		20	0
10	QPSK	1	49	18.18	18.25	18.35	18.24	18.07			
10	QPSK	25	0	18.15	18.25	18.40	18.31	18.02			
10	QPSK	25	12	18.02	18.09	18.27	18.37	17.87		19.8	0
10	QPSK	50	0	18.20	18.33	18.33	18.20	18.20			
10	QPSK	50	0	18.04	18.08	18.26	18.18	17.87			
10	16QAM	1	0	18.22	18.18	18.26	18.23	18.16			
10	16QAM	1	25	18.19	18.12	18.19	18.20	18.00			
10	16QAM	1	49	18.15	18.14	18.08	18.33	18.24			
10	16QAM	25	0	18.07	18.27	18.32	18.16	17.85			
10	16QAM	25	12	18.13	18.17	18.33	18.21	17.85		19.8	0
10	16QAM	50	0	18.03	18.08	18.26	18.20	17.85			
10	16QAM	50	0	18.00	18.08	18.26	18.20	17.85			
10	16QAM	50	12	18.05	18.11	18.26	18.27	17.81			
10	16QAM	1	0	17.87	17.95	18.18	18.24	17.84			
10	16QAM	1	25	18.04	18.13	18.15	18.00	17.88			
10	16QAM	1	49	18.00	18.09	18.27	18.07	17.81		19.8	0
10	16QAM	25	0	18.01	18.25	18.31	18.20	18.15			
10	16QAM	25	12	18.03	18.12	18.37	18.09	17.84			
10	16QAM	50	0	18.02	18.27	18.32	18.21	17.85		19.8	0
10	16QAM	50	0	18.13	18.12	18.26	18.17	18.07			
10	16QAM	50	12	18.16	18.14	18.15	18.27	17.87			
10	25QAM	1	0	18.00	18.03	18.28	18.23	17.87			
10	25QAM	1	49	17.97	18.01	18.10	18.13	17.85			
10	25QAM	25	0	18.05	18.26	18.32	18.24	17.86		19.8	0
10	25QAM	25	12	18.24	18.13	18.27	18.12	18.15			
10	25QAM	50	0	18.07	17.99	18.14	18.03	18.11			
10	25QAM	50	0	18.03	18.04	18.20	18.22	18.07		19.8	0
Channel											
Frequency (MHz)				39675	40170	40600	41060	41465			
5	QPSK	1	0	18.26	18.28	18.40	18.40	18.04			
5	QPSK	1	12	18.20	18.25	18.33	18.24	18.00			
5	QPSK	1	24	18.05	18.10	18.35	18.28	17.88		20	0
5	QPSK	12	0	18.16	18.20	18.39	18.26	18.03			
5	QPSK	12	7	18.05	18.09	18.36	18.31	17.99			
5	QPSK	24	0	18.13	18.15	18.32	18.27	18.02			
5	QPSK	24	0	18.04	18.08	18.22	18.15	18.03			
5	16QAM	1	0	18.32	18.22	18.27	18.22	18.16			
5	16QAM	1	12	18.08	18.12	18.26	18.17	18.14		19.8	0
5	16QAM	1	24	18.17	18.08	18.16	18.32	18.24			
5	16QAM	12	0	18.06	18.26	18.32	18.26	18.10			
5	16QAM	12	7	18.11	18.21	18.30	18.15	18.04			
5	16QAM	12	13	18.02	18.14	18.33	18.14	17.95			
5	16QAM	24	0	18.18	18.28	18.38	18.27	18.08			
5	16QAM	1	0	17.83	18.00	18.26	18.22	17.82			
5	16QAM	1	12	17.85	18.08	18.14	18.07	17.80			
5	16QAM	1	24	17.86	18.06	18.10	18.07	17.87			
5	16QAM	12	13	18.05	18.16	18.26	18.17	17.99			
5	16QAM	24	0	18.10	18.13	18.27	18.24	18.01			
5	25QAM	1	0	18.03	18.07	18.29	18.21	17.87			
5	25QAM	1	12	18.02	18.07	18.29	18.25	17.89			
5	25QAM	1	24	18.04	17.99	18.12	18.11	17.81			
5	25QAM	12	0	18.04	18.02	18.15	18.04	17.99			
5	25QAM	12	7	18.24	18.06	18.34	18.18	18.20			
5	25QAM	12	13	17.86	18.00	18.07	18.04	18.10			
5	25QAM	24	0	18.15	18.12	18.25	18.15	18.10			





Band 12 Ant1 DS15 Simultaneous														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Int. (dB)	MPR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	20.33	20.49	20.18	21.8	0						
10	QPSK	1	25	20.16	20.15	20.15								
10	QPSK	1	49	20.07	20.12	20.25								
10	QPSK	25	0	20.35	20.38	20.28								
10	QPSK	25	12	19.98	20.25	20.18	21.8	0						
10	QPSK	25	25	20.20	20.23	20.17								
10	QPSK	50	0	20.20	20.25	20.09								
10	16QAM	1	0	20.21	20.41	20.06								
10	16QAM	1	25	20.09	20.13	20.10	21.8	0						
10	16QAM	1	49	20.03	20.06	20.15								
10	16QAM	25	0	20.33	20.29	20.22								
10	16QAM	25	12	19.90	20.22	20.17								
10	16QAM	25	25	20.08	20.20	20.13	21.8	0						
10	16QAM	50	0	20.11	20.15	20.03								
10	64QAM	1	0	20.24	20.37	20.09								
10	64QAM	1	25	20.08	20.13	20.04								
10	64QAM	1	49	19.99	20.09	20.22	21.8	0						
10	64QAM	25	0	20.24	20.35	20.21								
10	64QAM	25	12	19.91	20.12	20.10								
10	64QAM	25	25	20.16	20.19	20.07								
10	64QAM	50	0	20.09	20.23	20.04	20	1.8						
10	256QAM	1	0	19.64	19.62	18.96								
10	256QAM	1	25	19.87	19.90	19.87								
10	256QAM	1	49	19.73	19.84	19.83								
10	256QAM	25	0	19.85	19.89	19.90	20	1.8						
10	256QAM	25	12	19.70	19.82	19.88								
10	256QAM	25	25	19.80	19.80	19.90								
10	256QAM	50	0	19.65	19.65	19.65								
Channel														
Frequency (MHz)														
5	QPSK	1	0	20.27	20.43	20.11	21.8	0						
5	QPSK	1	12	20.08	20.13	20.07								
5	QPSK	1	24	19.98	20.01	20.13								
5	QPSK	12	0	20.25	20.25	20.24								
5	QPSK	12	7	19.94	20.16	20.16	21.8	0						
5	QPSK	12	13	20.14	20.14	20.08								
5	QPSK	25	0	20.08	20.24	20.09								
5	16QAM	1	0	20.08	20.32	20.01								
5	16QAM	1	12	19.96	20.01	19.98	21.8	0						
5	16QAM	1	24	19.87	19.97	20.09								
5	16QAM	12	0	20.21	20.18	20.17								
5	16QAM	12	7	19.87	20.13	20.05								
5	16QAM	12	13	20.08	20.10	20.07	21.8	0						
5	16QAM	25	0	19.99	20.07	19.89								
5	64QAM	1	0	20.11	20.30	19.96								
5	64QAM	1	12	19.97	20.03	19.95								
5	64QAM	1	24	19.94	19.99	20.10	21.8	0						
5	64QAM	12	0	20.16	20.25	20.13								
5	64QAM	12	7	19.83	20.09	20.02								
5	64QAM	12	13	20.12	20.15	20.04								
5	64QAM	25	0	20.03	20.18	19.91	20	1.8						
5	256QAM	1	0	19.67	19.67	19.67								
5	256QAM	1	12	19.86	19.80	19.79								
5	256QAM	1	24	19.75	19.82	19.78								
5	256QAM	12	0	19.82	19.85	19.75	20	1.8						
5	256QAM	12	7	19.73	19.70	19.84								
5	256QAM	12	13	19.86	19.76	19.71								
5	256QAM	25	0	19.78	19.75	19.75								
Channel														
Frequency (MHz)														
3	QPSK	1	0	20.25	20.41	20.06	21.8	0						
3	QPSK	1	8	20.10	20.08	20.03								
3	QPSK	1	14	20.01	20.07	20.18								
3	QPSK	8	0	20.32	20.30	20.17								
3	QPSK	8	4	19.86	20.11	20.14	21.8	0						
3	QPSK	8	7	20.16	20.10	20.13								
3	QPSK	16	0	20.15	20.25	20.09								
3	16QAM	1	0	20.12	20.34	19.97								
3	16QAM	1	8	19.89	20.05	20.05	21.8	0						
3	16QAM	1	14	19.90	20.00	20.06								
3	16QAM	8	0	20.30	20.19	20.11								
3	16QAM	8	4	19.84	20.16	20.07								
3	16QAM	8	7	20.00	20.08	20.03	21.8	0						
3	16QAM	15	0	19.99	20.07	19.92								
3	64QAM	1	0	20.11	20.32	20.03								
3	64QAM	1	8	20.03	20.01	19.96								
3	64QAM	1	14	19.85	20.08	20.14	21.8	0						
3	64QAM	8	0	20.14	20.21	20.18								
3	64QAM	8	4	19.81	20.06	20.05								
3	64QAM	8	7	20.04	20.09	19.98								
3	64QAM	15	0	20.08	20.11	20.02	21.8	0						
3	256QAM	1	0	19.65	19.62	18.97								
3	256QAM	1	8	19.74	19.70	19.81								
3	256QAM	1	14	19.74	19.82	19.76								
3	256QAM	8	0	19.68	19.82	19.87	20	1.8						
3	256QAM	8	4	19.49	19.76	19.73								
3	256QAM	8	7	19.64	19.65	19.79								
3	256QAM	15	0	19.78	19.75	19.75								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	20.21	20.38	20.06	21.8	0						
1.4	QPSK	1	3	20.10	20.11	20.06								
1.4	QPSK	1	5	20.02	20.05	20.16								
1.4	QPSK	3	0	20.28	20.25	20.17								
1.4	QPSK	3	1	19.84	20.22	20.10	21.8	0						
1.4	QPSK	3	3	20.13	20.17	20.08								
1.4	QPSK	6	0	20.16	20.21	20.03								
1.4	16QAM	1	0	20.07	20.30	20.00								
1.4	16QAM	1	3	20.04	20.09	20.04	21.8	0						
1.4	16QAM	1	6	19.83	19.98	20.11								
1.4	16QAM	3	0	20.21	20.17	20.16								
1.4	16QAM	3	1	19.84	20.09	20.05								
1.4	16QAM	3	3	19.95	20.15	20.08	21.8	0						
1.4	16QAM	6	0	19.99	20.07	19.90								
1.4	64QAM	1	0	20.18	20.24	20.04								
1.4	64QAM	1	3	19.96	20.01	19.95								
1.4	64QAM	1	5	19.85	19.98	20.11	21.8	0						
1.4	64QAM	3	0	20.15	20.27	20.07								
1.4	64QAM	3	1	19.85	20.03	20.02								
1.4	64QAM	3	3	20.10	20.19	20.02								
1.4	64QAM	6	0	20.07	20.14	20.01	21.8	0						
1.4	256QAM	1	0	19.63	19.64	19.77								
1.4	256QAM	1	3	19.73	19.73	19.78								
1.4	256QAM	1	5	19.64	19.73	19.78	20	1.8						
1.4	256QAM	3	0	19.72	19.86	19.85								
1.4	256QAM	3	1	19.84	19.83	19.82								
1.4	256QAM	3	3	19.73	19.73	19.78								
1.4	256QAM	6	0	19.51	19.65	19.70								
Channel														

Band 25 Ant1 DS15 Simultaneous												
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turnup Int. (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	15.24	15.35	15.12			16.7	0		
20	QPSK	1	49	15.07	14.98	14.87						
20	QPSK	1	99	14.94	14.92	14.87						
20	QPSK	50	0	15.11	15.26	15.07						
20	QPSK	50	24	15.04	15.07	14.88			16.7	0		
20	QPSK	50	50	15.01	14.91	14.86						
20	QPSK	100	0	15.01	15.15	15.08						
20	16QAM	1	0	15.09	15.18	15.09						
20	16QAM	1	49	14.85	14.93	14.94			16.7	0		
20	16QAM	1	99	14.93	14.98	14.86						
20	16QAM	50	0	15.05	15.15	15.01						
20	16QAM	50	24	14.95	14.96	14.99						
20	16QAM	50	50	14.90	14.92	14.79			16.7	0		
20	16QAM	100	0	14.95	15.11	14.97						
20	8QAM	1	0	15.14	15.21	15.11						
20	8QAM	1	49	14.90	14.92	14.81			16.7	0		
20	8QAM	1	99	14.91	15.11	14.82						
20	8QAM	50	0	14.99	15.26	15.08						
20	8QAM	50	24	14.96	14.99	14.87						
20	8QAM	50	50	15.01	14.95	15.08			16.7	0		
20	8QAM	100	0	14.98	15.09	15.03						
20	8QAM	100	24	14.95	15.16	15.08						
20	8QAM	100	49	14.82	14.92	14.89						
Channel												
Frequency (MHz)												
15	QPSK	1	0	15.07.5	14.80	15.07.5			16.7	0		
15	QPSK	1	37	14.98	14.90	14.87						
15	QPSK	1	74	14.89	15.08	14.98						
15	QPSK	36	0	15.08	15.18	14.88						
15	QPSK	36	20	14.98	14.87	14.80			16.7	0		
15	QPSK	75	0	14.88	15.10	14.87						
15	16QAM	1	0	15.05	15.07	14.89						
15	16QAM	1	37	14.83	14.89	14.82						
15	16QAM	1	74	14.91	14.95	15.00			16.7	0		
15	16QAM	36	0	15.00	15.11	14.81						
15	16QAM	36	20	14.91	14.82	14.87						
15	16QAM	75	0	14.85	15.08	14.89						
15	8QAM	1	0	15.03	15.10	15.03			16.7	0		
15	8QAM	1	37	14.77	14.86	14.75						
15	8QAM	1	74	14.80	15.04	14.80						
15	8QAM	36	0	14.97	15.16	15.05						
15	8QAM	36	20	14.85	14.88	14.73			16.7	0		
15	8QAM	36	39	14.90	14.75	14.55						
15	8QAM	75	0	14.90	14.98	14.86						
15	256QAM	1	0	14.83	14.86	15.00						
15	256QAM	1	37	14.78	14.85	14.83			16.7	0		
15	256QAM	1	74	14.87	15.05	15.01						
15	256QAM	36	0	14.87	15.17	15.02						
15	256QAM	36	20	14.59	14.95	14.75						
15	256QAM	36	39	14.88	14.81	14.76			16.7	0		
15	256QAM	75	0	14.97	14.85	14.81						
Channel												
Frequency (MHz)												
10	QPSK	1	0	15.05	14.80	15.10					16.7	0
10	QPSK	1	25	15.03	14.89	14.82						
10	QPSK	1	49	14.82	15.12	14.87						
10	QPSK	25	0	14.98	15.16	14.85						
10	QPSK	25	12	14.97	14.94	14.86			16.7	0		
10	QPSK	25	25	14.97	14.84	14.82						
10	QPSK	50	0	14.92	15.08	14.85						
10	16QAM	1	0	15.04	15.12	15.03						
10	16QAM	1	25	14.84	14.81	14.87			16.7	0		
10	16QAM	1	49	14.81	15.02	14.87						
10	16QAM	25	0	14.91	15.02	14.83						
10	16QAM	25	12	14.93	14.88	14.81						
10	16QAM	50	0	14.89	15.07	14.82			16.7	0		
10	8QAM	1	0	15.04	15.14	15.06						
10	8QAM	1	25	14.84	14.83	14.71						
10	8QAM	1	49	14.81	15.02	14.87						
10	8QAM	25	0	14.93	15.16	14.86			16.7	0		
10	8QAM	25	12	14.91	14.90	14.74						
10	8QAM	25	25	14.88	14.71	14.90						
10	8QAM	50	0	14.92	14.97	14.82						
10	256QAM	1	0	14.96	15.05	14.85			16.7	0		
10	256QAM	1	25	14.73	14.85	14.78						
10	256QAM	1	49	14.89	15.09	15.01						
10	256QAM	25	0	15.01	15.18	14.89						
10	256QAM	25	12	14.92	14.96	14.78			16.7	0		
10	256QAM	25	25	14.83	14.79	14.71						
10	256QAM	50	0	14.94	15.01	14.85						
Channel												
Frequency (MHz)												
5	QPSK	1	0	15.13	15.26	14.93			16.7	0		
5	QPSK	1	12	15.04	14.88	14.94						
5	QPSK	1	24	14.89	15.10	15.03						
5	QPSK	12	0	15.03	15.22	14.88						
5	QPSK	12	7	14.97	15.04	14.89			16.7	0		
5	QPSK	12	13	14.92	14.80	14.80						
5	QPSK	25	0	14.97	15.13	15.06						
5	16QAM	1	0	14.97	15.06	15.00						
5	16QAM	1	12	14.74	14.86	14.87			16.7	0		
5	16QAM	1	24	14.88	14.98	14.88						
5	16QAM	12	0	14.99	15.12	14.86						
5	16QAM	12	7	14.92	14.84	14.81						
5	16QAM	25	0	14.78	14.82	14.71			16.7	0		
5	16QAM	25	0	14.84	15.04	14.93						
5	8QAM	1	0	15.09	15.18	15.08						
5	8QAM	1	12	14.78	14.90	14.73						
5	8QAM	1	24	14.88	15.08	14.88			16.7	0		
5	8QAM	12	0	14.88	15.14	14.86						
5	8QAM	12	7	14.86	14.89	14.79						
5	8QAM	25	0	14.95	14.73	14.89						
5	8QAM	25	13	14.87	15.02	14.91			16.7	0		
5	256QAM	1	0	14.89	15.08	15.05						
5	256QAM	1	12	14.71	14.82	14.79						
5	256QAM	1	24	14.92	15.09	14.90						
5	256QAM	12	0	14.99	15.19	15.02			16.7	0		
5	256QAM	12	7	14.92	14.94	14.74						
5	256QAM	25	0	14.95	14.94	14.82						
Channel												
Frequency (MHz)												
3	QPSK	1	0	15.19	15.20	15.04			16.7	0		
3	QPSK	1	8	15.00	14.84	14.93						
3	QPSK	1	14	14.89	15.13	15.00						
3	QPSK	8	0	15.05	15.19	15.01						
3	QPSK	8	4	14.85	14.96	14.92			16.7	0		
3	QPSK	8	7	14.90	14.80	14.82						
3	QPSK	16	0	14.88	15.05	15.02						
3	16QAM	1	0	15.07	15.07	15.06						
3	16QAM	1	8	14.81	14.82	14.80			16.7	0		
3	16QAM	1	14	14.89	14.87	14.84						
3	16QAM	8	0	14.98	15.09	14.94						
3	16QAM	8	4	14.93	14.92	14.84						
3	16QAM	16	0	14.92	15.03	15.01			16.7	0		
3	16QAM	16	8	14.91	15.09	14.99						
3	16QAM	32	0	14.72	14.79	14.79						
3	16QAM	32	8	14.85	15.07	14.93						
3	16QAM	32	16	14.93	15.12	15.03			16.7	0		
3	16QAM	64	0	14.91	14.96	14.79						
3	256QAM	1	0	14.89	15.09	15.02						
3	256QAM	1	8	14.71	14.82	14.79						
3	256QAM	1	16	14.99	15.18	14.84			16.7	0		
3	256QAM	16	0	14.90	15.01	14.88						
3	256QAM	16	8	14.83	14.91	14.84						
3	256QAM	32	0	14.93	14.93	14.82						
3	256QAM	32	8	14.89	14.82	14.82						
3	256QAM	32	16	14.90	14.80	14.82			16.7	0		
3	256QAM	64	0	14.90	15.13	15.03						
3	256QAM	64	8	14.92	14.98	14.87						
3	256QAM	64	16	14.84	14.77	14.80						
3	256QAM	64	24	14.93	14.93	14.82			16.7	0		
3	256QAM	128	0	14.93	14.93	14.82						
3	256QAM	128	8	14.93	14.93	14.82						
3	256QAM	128	16	14.93	14.93	14.82						



Band 30 Ant1 DSIS Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Time-up (ms)	APR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.42	23.10		19.5	0		
10	QPSK	1	26	18.13	18.10					
10	QPSK	1	49	18.10	18.16					
10	QPSK	25	0	18.17			19.5	0		
10	QPSK	25	12	18.10						
10	QPSK	25	25	18.03						
10	QPSK	50	0	18.05			19.5	0		
10	16QAM	1	0	18.30						
10	16QAM	1	26	18.02						
10	16QAM	1	49	18.06			19.5	0		
10	16QAM	25	0	18.04						
10	16QAM	25	12	18.04						
10	16QAM	25	25	17.96			19.5	0		
10	16QAM	50	0	17.96						
10	16QAM	1	0	18.30						
10	16QAM	1	26	18.06			19.5	0		
10	16QAM	1	49	18.02						
10	16QAM	25	0	18.13						
10	16QAM	25	12	18.06			19.5	0		
10	16QAM	25	25	17.96						
10	16QAM	50	0	17.96						
10	256QAM	1	0	16.30			18	1.5		
10	256QAM	1	26	16.32						
10	256QAM	1	49	16.22						
10	256QAM	25	0	16.31			18	1.5		
10	256QAM	25	12	16.21						
10	256QAM	25	25	16.18						
10	256QAM	50	0	16.30			18	1.5		
10	256QAM	50	0	16.30						
10	256QAM	50	0	16.30						
Channel				27165	27175	27175			Time-up (ms)	APR (dB)
Frequency (MHz)				2307.5	2310	2312.5	19.5	0		
5	QPSK	1	0	18.40	18.39	18.29				
5	QPSK	1	12	18.05	18.04	18.04				
5	QPSK	1	24	18.01	17.99	18.05	19.5	0		
5	QPSK	12	0	18.13	18.11	18.14				
5	QPSK	12	7	17.98	18.04	18.03				
5	QPSK	12	13	17.84	17.96	17.97	19.5	0		
5	QPSK	25	0	17.98	17.91	17.95				
5	16QAM	1	0	18.27	18.28	18.28				
5	16QAM	1	12	17.92	17.88	17.88	19.5	0		
5	16QAM	1	24	17.97	17.88	18.06				
5	16QAM	12	0	18.02	18.01	17.98				
5	16QAM	12	7	17.86	17.92	17.91	19.5	0		
5	16QAM	12	13	17.80	17.88	17.88				
5	16QAM	25	0	17.88	17.92	17.85				
5	16QAM	25	0	17.88	17.92	17.85	19.5	0		
5	16QAM	1	0	18.30	18.20	18.31				
5	16QAM	1	12	18.05	18.04	18.03				
5	16QAM	1	24	17.95	17.95	17.88	19.5	0		
5	16QAM	12	0	18.05	18.11	18.07				
5	16QAM	12	13	17.99	17.98	17.94				
5	16QAM	12	13	17.92	17.94	17.93	19.5	0		
5	16QAM	25	0	17.75	17.75	17.75				
5	16QAM	1	0	18.25	18.12	18.22				
5	256QAM	1	12	16.06	16.08	16.05	18	1.5		
5	256QAM	1	24	16.18	16.08	16.08				
5	256QAM	12	0	16.12	16.12	16.25				
5	256QAM	12	7	16.15	16.15	16.16	18	1.5		
5	256QAM	12	13	16.04	16.10	16.01				
5	256QAM	25	0	16.22	16.22	16.15				

Band 66 Ant1 DSIS Simultaneous												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Time-up (ms)	APR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	16.56	16.66	16.64	17	0				
20	QPSK	1	49	16.40	16.40	16.47						
20	QPSK	1	99	16.46	16.37	16.32						
20	QPSK	50	0	16.44	16.51	16.45	17	0				
20	QPSK	50	24	16.41	16.43	16.31						
20	QPSK	50	50	16.35	16.46	16.34						
20	QPSK	100	0	16.48	16.45	16.36	17	0				
20	16QAM	1	0	16.43	16.51	16.35						
20	16QAM	1	49	16.28	16.43	16.31						
20	16QAM	1	99	16.29	16.34	16.39	17	0				
20	16QAM	50	0	16.45	16.43	16.33						
20	16QAM	50	24	16.21	16.31	16.21						
20	16QAM	50	50	16.23	16.34	16.29	17	0				
20	16QAM	100	0	16.38	16.46	16.24						
20	16QAM	1	0	16.50	16.55	16.50						
20	16QAM	1	49	16.42	16.38	16.26	17	0				
20	16QAM	1	99	16.29	16.38	16.28						
20	16QAM	50	0	16.30	16.45	16.37						
20	16QAM	50	24	16.34	16.38	16.25	17	0				
20	16QAM	50	50	16.20	16.34	16.25						
20	16QAM	100	0	16.33	16.40	16.38						
20	256QAM	1	49	16.37	16.43	16.36	17	0				
20	256QAM	1	99	16.31	16.34	16.41						
20	256QAM	50	0	16.32	16.35	16.42						
20	256QAM	50	24	16.31	16.37	16.22	17	0				
20	256QAM	50	50	16.24	16.34	16.28						
20	256QAM	100	0	16.34	16.38	16.26						
Channel												
Frequency (MHz)				13047	13052	13057	Time-up (ms)	APR (dB)				
				1771.5	1774	1772.5	17	0				
15	QPSK	1	0	16.44	16.61	16.61						
15	QPSK	1	37	16.36	16.44	16.43						
15	QPSK	1	74	16.43	16.29	16.48	17	0				
15	QPSK	36	0	16.30	16.44	16.38						
15	QPSK	36	36	16.33	16.38	16.27						
15	QPSK	36	39	16.32	16.35	16.28	17	0				
15	QPSK	75	0	16.33	16.42	16.26						
15	16QAM	1	0	16.31	16.47	16.43						
15	16QAM	1	37	16.18	16.32	16.26	17	0				
15	16QAM	36	0	16.42	16.35	16.38						
15	16QAM	36	36	16.42	16.35	16.24						
15	16QAM	36	39	16.16	16.24	16.18	17	0				
15	16QAM	75	0	16.31	16.35	16.19						
15	16QAM	75	0	16.31	16.35	16.19						
15	16QAM	1	0	16.43	16.52	16.42	17	0				
15	16QAM	1	37	16.24	16.36	16.14						
15	16QAM	1	74	16.20	16.25	16.35						
15	16QAM	36	0	16.24	16.37	16.29	17	0				
15	16QAM	36	36	16.29	16.33	16.34						
15	16QAM	36	39	16.33	16.33	16.22						
15	16QAM	75	0	16.24	16.30	16.34	17	0				
15	16QAM	75	0	16.27	16.30	16.40						
15	256QAM	1	37	16.25	16.33	16.33						
15	256QAM	36	0	16.27	16.29	16.32	17	0				
15	256QAM	36	36	16.33	16.34	16.24						
15	256QAM	36	39	16.20	16.24	16.15						
15	256QAM	75	0	16.20	16.24	16.15	17	0				
15	256QAM	75	0	16.23	16.26	16.35						
15	256QAM	75	0	16.24	16.30	16.14						
Channel												
Frequency (MHz)				13052	13057	13062	Time-up (ms)	APR (dB)				
				1772.5	1774.5	1776.5	17	0				
10	QPSK	1	0	16.51	16.65	16.65						
10	QPSK	1	25	16.38	16.41	16.41						
10	QPSK	1	49	16.34	16.27	16.16	17	0				
10	QPSK	1	74	16.34	16.48	16.48						
10	QPSK	20	12	16.30	16.38	16.23						
10	QPSK	20	26	16.27	16.37	16.27	17	0				
10	QPSK	20	39	16.36	16.38	16.31						
10	QPSK	20	50	16.31	16.41	16.53						
10	16QAM	1	0	16.31	16.47	16.43	17	0				
10	16QAM	1	49	16.15	16.28	16.19						
10	16QAM	20	0	16.37	16.35	16.27						
10	16QAM	20	26	16.29	16.32	16.24	17	0				
10	16QAM	20	39	16.32	16.39	16.15						
10	16QAM	20	50	16.28	16.48	16.18						
10	16QAM	1	0	16.30	16.31	16.13	17	0				
10	16QAM	1	49	16.21	16.26	16.32						
10	16QAM	1	74	16.18	16.23	16.33						
10	16QAM	20	12	16.23	16.27	16.21	17	0				
10	16QAM	20	26	16.10	16.32	16.25						
10	16QAM	20	39	16.29	16.27	16.23						
10	256QAM	1	0	16.40	16.41	16.44	17	0				
10	256QAM	1	25	16.31	16.36	16.31						
10	256QAM	1	49	16.34	16.29	16.23						
10	256QAM	20	12	16.29	16.37	16.29	17	0				
10	256QAM	20	26	16.36	16.37	16.33						
10	256QAM	20	39	16.24	16.31	16.15						
10	256QAM	20	50	16.30	16.31	16.12	17	0				
Channel												
Frequency (MHz)				13057	13062	13067			Time-up (ms)	APR (dB)		
				1776.5	1778.5	1779.5	17	0				
5	QPSK	1	0	16.53	16.55	16.59						
5	QPSK	1	12	16.27	16.41	16.44						
5	QPSK	1	25	16.38	16.41	16.41	17	0				
5	QPSK	1	49	16.34	16.27	16.16						
5	QPSK	12	0	16.32	16.34	16.48						
5	QPSK	12	7	16.30	16.34	16.22	17	0				
5	QPSK	12	19	16.33	16.33	16.36						
5	QPSK	20	0	16.35	16.43	16.20						
5	QPSK	20	12	16.35	16.46	16.46	17	0				
5	QPSK	20	26	16.25	16.31	16.39						
5	QPSK	20	39	16.32	16.31	16.31						
5	16QAM	1	0	16.31	16.46	16.46	17	0				
5	16QAM	1	12	16.10	16.28	16.15						
5	16QAM	12	0	16.37	16.38	16.50						
5	16QAM	12	13	16.27	16.28	16.10	17	0				
5	16QAM	12	26	16.33	16.33	16.33						
5	16QAM	12	39	16.29	16.35	16.18						
5	16QAM	1	0	16.33	16.33	16.13	17	0				
5	16QAM	1	12	16.25	16.34	16.20						
5	16QAM	12	0	16.28	16.28	16.13						
5	16QAM	12	7	16.27	16.32	16.19	17	0				
5	16QAM	12	19	16.33	16.33	16.33						
5	16QAM	20	0	16.28	16.28	16.13						
5	16QAM	1	0	16.40	16.42	16.43	17	0				
5	16QAM	1	12	16.31	16.35	16.35						
5	16QAM	1	25	16.35	16.35	16.35						
5	16QAM	1	49	16.28	16.28	16.13	17	0				
5	16QAM	1	74	16.26	16.31	16.33						
5	16QAM	20	0	16.33	16.29	16.34						
5	256QAM	1	0	16.33	16.29	16.34	17	0				
5	256QAM	1	12	16.18	16.34	16.18						
5	256QAM	12	0	16.21	16.29	16.38						
5	256QAM	12	13	16.21	16.29	16.14	17	0				
5	256QAM	20	0	16.26	16.33	16.12						
Channel												
Frequency (MHz)				13062	13067	13072	Time-up (ms)	APR (dB)				
				1777.5	1779.5	1780.5	17	0				
3	QPSK	1	0	16.53	16.53	16.58						
3	QPSK	1	12	16.27	16.43	16.43						
3	QPSK	1	25	16.37	16.43	16.43	17	0				
3	QPSK	1	49	16.37	16.42	16.32						
3	QPSK	1	74	16.37	16.43	16.48						
3	QPSK	8	7	16.21	16.34	16.32	17	0				
3	QPSK	15	0	16.33	16.37	16.26						
3	QPSK	15	7	16.31	16.40	16.40						
3	16QAM	1	0	16.30	16.31	16.27	17	0				
3	16QAM	1	14	16.25	16.32	16.33						
3	16QAM	8	0	16.31	16.30	16.30						
3	16QAM	8	4	16.11	16.26	16.11	17	0				
3	16QAM	8	8	16.29	16.26	16.27						
3	16QAM	8	12	16.33	16.32	16.14						
3	16QAM	1	0	16.40	16.45	16.48	17	0				
3	16QAM	1	14	16.28	16.34	16.34						
3	16QAM	1	28	16.34	16.34	16.34						
3	16QAM	8	0	16.28	16.34	16.33	17	0				
3	16QAM	8	4	16.30	16.33	16.33						
3	16QAM	8	7	16.14	16.20	16.20						
3	16QAM	1	0	16.24	16.32	16.28	17	0				
3	16QAM	1	14	16.28	16.32	16.32						
3	16QAM	1	28	16.34	16.34	16.34						
3	16QAM	1	49	16.32	16.38	16.37	17	0				
3	16QAM	1	74	16.27	16.23	16.37						
3	16QAM	8	0	16.33	16.33	16.33						
3	16QAM	8	4	16.28	16.31	16.11	17	0				
3	16QAM	8	7	16.27	16.26	16.21						
3	16QAM	8	12	16.23	16.33	16.33						
Channel												
Frequency (MHz)				13067	13072	13077	Time-up (ms)	APR (dB)				
				1777.5	1780.5	1783.5	17	0				
1.4	QPSK	1	0	16.50	16.46	16.42						
1.4	QPSK	1	14	16.37	16.24	16.43						
1.4	QPSK	1	28	16.37	16.37	16.43	17	0				
1.4	QPSK	3	0	16.39	16.38	16.21						
1.4	QPSK	3	3	16.33	16.42	16.20						
1.4	QPSK	3	30	16.28	16.31	16						



Band 38 Ant1 DS15 Simultaneous														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	18.02	18.15	17.90	10.6	0						
20	QPSK	1	49	17.97	17.97	17.71								
20	QPSK	1	99	17.94	17.77	17.79								
20	QPSK	50	0	17.95	18.05	17.78								
20	QPSK	50	24	17.77	18.05	17.83	10.6	0						
20	QPSK	100	0	17.78	17.82	17.87								
20	15QAM	1	0	18.00	17.95	17.87								
20	15QAM	1	49	17.95	17.93	17.75								
20	15QAM	1	99	17.91	17.90	17.82	10.6	0						
20	15QAM	50	0	17.92	17.92	17.81								
20	15QAM	50	24	17.75	17.93	17.78								
20	15QAM	50	50	17.80	17.86	17.66								
20	15QAM	100	0	17.92	17.95	17.77	10.6	0						
20	15QAM	1	0	17.91	18.05	17.78								
20	15QAM	1	49	17.96	17.89	17.82								
20	15QAM	1	99	18.02	17.92	17.80								
20	15QAM	50	0	17.85	17.87	17.85	19	0.6						
20	15QAM	50	24	17.65	17.82	17.57								
20	15QAM	50	50	17.65	17.87	17.55								
20	15QAM	100	0	17.71	17.86	17.84								
20	25QAM	1	0	18.01	18.76	18.76	17	2.6						
20	25QAM	1	49	18.71	18.95	18.93								
20	25QAM	1	99	18.72	18.96	18.75								
20	25QAM	50	0	18.64	18.92	18.64								
20	25QAM	50	24	18.61	18.95	18.59	17	2.6						
20	25QAM	50	50	18.62	18.66	18.64								
20	25QAM	100	0	18.63	18.93	18.67								
Channel														
Frequency (MHz)														
15	QPSK	1	0	17.84	17.84	17.84	10.6	0						
15	QPSK	1	37	17.84	17.89	17.81								
15	QPSK	1	74	17.87	17.83	17.76								
15	QPSK	36	0	17.89	17.93	17.78								
15	QPSK	36	20	17.67	18.00	17.84	10.6	0						
15	QPSK	36	59	17.84	17.95	17.87								
15	QPSK	75	0	17.70	17.76	17.76								
15	15QAM	1	0	17.89	17.88	17.79								
15	15QAM	1	37	17.89	17.87	17.73	10.6	0						
15	15QAM	1	74	17.77	17.71	17.72								
15	15QAM	36	0	17.84	17.74	17.82								
15	15QAM	36	20	17.72	17.93	17.68								
15	15QAM	36	59	17.65	17.79	17.62	10.6	0						
15	15QAM	75	0	17.82	17.77	17.72								
15	15QAM	75	0	17.83	18.01	17.75								
15	15QAM	1	37	17.83	17.78	17.88								
15	15QAM	1	74	17.84	17.76	17.84	19	0.6						
15	15QAM	36	0	17.81	17.80	17.75								
15	15QAM	36	20	17.47	17.50	17.44								
15	15QAM	36	59	17.62	17.56	17.44								
15	15QAM	75	0	17.82	17.84	17.86	17	2.6						
15	25QAM	1	0	18.73	18.61	18.65								
15	25QAM	1	49	18.57	18.51	18.59								
15	25QAM	1	99	18.56	18.57	18.52								
15	25QAM	50	0	18.56	18.50	18.48	17	2.6						
15	25QAM	50	24	18.55	18.50	18.49								
15	25QAM	50	50	18.57	18.61	18.59								
15	25QAM	75	0	18.70	18.66	18.63								
Channel														
Frequency (MHz)														
10	QPSK	1	0	25.71	25.90	26.15	10.6	0						
10	QPSK	1	25	17.89	17.82	17.62								
10	QPSK	1	49	17.83	17.72	17.74								
10	QPSK	25	0	17.83	17.87	17.64								
10	QPSK	25	12	17.64	17.94	17.64	10.6	0						
10	QPSK	25	25	17.66	17.93	17.60								
10	QPSK	25	37	17.75	17.91	17.76								
10	QPSK	50	0	17.82	17.80	17.84								
10	15QAM	1	0	17.82	17.80	17.84	10.6	0						
10	15QAM	1	25	17.81	17.79	17.82								
10	15QAM	1	49	17.80	17.78	17.78								
10	15QAM	25	0	17.78	17.74	17.89								
10	15QAM	25	12	17.62	17.85	17.68	10.6	0						
10	15QAM	25	25	17.63	17.86	17.66								
10	15QAM	25	37	17.65	17.80	17.64								
10	15QAM	50	0	17.81	17.85	17.73								
10	15QAM	50	0	17.80	17.72	17.86	10.6	0						
10	15QAM	50	24	17.79	17.68	17.63								
10	15QAM	50	49	17.83	17.72	17.86								
10	15QAM	25	12	17.64	17.85	17.67								
10	15QAM	25	25	17.65	17.80	17.64	19	0.6						
10	15QAM	25	37	17.67	17.82	17.66								
10	15QAM	50	0	17.80	17.78	17.86								
10	15QAM	50	24	17.69	17.82	17.67								
10	25QAM	1	0	18.96	18.92	18.90	17	2.6						
10	25QAM	1	25	18.95	18.92	18.89								
10	25QAM	1	49	18.98	18.96	18.90								
10	25QAM	25	0	18.93	18.94	18.93								
10	25QAM	25	12	18.91	18.95	18.88	17	2.6						
10	25QAM	25	25	18.92	18.94	18.90								
10	25QAM	25	37	18.94	18.93	18.91								
10	25QAM	50	0	18.95	18.93	18.96								
Channel														
Frequency (MHz)														
5	QPSK	1	0	17.88	18.06	17.78	10.6	0						
5	QPSK	1	12	17.85	17.87	17.68								
5	QPSK	1	24	17.89	17.84	17.70								
5	QPSK	12	0	17.82	17.92	17.70								
5	QPSK	12	7	17.84	17.84	17.83	10.6	0						
5	QPSK	12	13	17.67	17.86	17.63								
5	QPSK	12	19	17.73	17.84	17.73								
5	15QAM	1	0	17.98	17.82	17.76								
5	15QAM	1	12	17.81	17.79	17.86	10.6	0						
5	15QAM	1	24	17.86	17.71	17.80								
5	15QAM	12	0	17.80	17.76	17.79								
5	15QAM	12	7	17.71	17.83	17.72								
5	15QAM	12	13	17.61	17.79	17.67	10.6	0						
5	15QAM	12	19	17.61	17.79	17.67								
5	15QAM	25	0	17.80	17.84	17.86								
5	15QAM	25	0	17.88	17.96	17.88								
5	15QAM	1	49	18.05	18.06	18.00	19	0.6						
5	15QAM	1	24	18.03	17.79	17.85								
5	15QAM	12	0	17.81	17.77	17.84								
5	15QAM	12	7	17.71	17.83	17.72								
5	15QAM	12	13	17.49	17.82	17.52	19	0.6						
5	15QAM	12	19	17.51	17.88	17.50								
5	15QAM	25	0	17.65	17.88	17.49								
5	15QAM	25	0	18.71	18.69	18.61								
5	25QAM	1	0	18.64	18.63	18.57	17	2.6						
5	25QAM	1	24	18.60	18.53	18.44								
5	25QAM	12	0	18.61	18.59	18.56								
5	25QAM	12	7	18.63	18.51	18.51								
5	25QAM	12	13	18.50	18.58	18.51	17	2.6						
5	25QAM	12	19	18.52	18.56	18.51								
5	25QAM	25	0	18.51	18.50	18.48								
5	25QAM	25	0	18.51	18.50	18.48								



Band 48_FCC Ant1 DS15 Default												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Mode Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPP (dB)			
Channel				56540	56630	56760	56850					
Frequency (MHz)				56540	56630	56760	56850					
20	QPSK	1	0	19.02	19.20	19.04	19.06	20	0			
20	QPSK	1	49	18.88	19.05	19.03	18.89					
20	QPSK	1	99	19.02	19.11	19.07	19.08					
20	QPSK	50	0	19.03	19.08	19.07	19.04					
20	QPSK	50	24	18.80	19.00	18.98	18.91	20	0			
20	QPSK	50	39	18.90	19.02	18.98	18.94					
20	QPSK	100	0	18.82	19.03	19.01	18.89					
20	16QAM	1	0	18.89	19.68	18.86	18.71					
20	16QAM	1	49	18.82	19.66	18.58	18.58	20	0			
20	16QAM	1	99	18.50	18.66	18.56	18.59					
20	16QAM	50	0	18.97	19.70	18.94	18.64					
20	16QAM	50	24	18.81	19.84	18.52	18.54					
20	16QAM	50	50	18.56	18.83	18.50	18.57	20	0			
20	64QAM	100	0	18.54	18.66	18.41	18.24					
20	64QAM	1	0	18.35	18.45	18.42	18.42					
20	64QAM	1	49	18.53	18.62	18.58	18.58					
20	64QAM	1	99	18.35	18.35	18.26	18.31	20	0			
20	64QAM	50	0	18.42	18.45	18.39	18.42					
20	64QAM	50	24	18.31	18.40	18.32	18.34					
20	64QAM	50	50	18.25	18.32	18.28	18.24					
20	64QAM	100	0	18.37	18.39	18.32	18.37	20	0			
20	256QAM	1	0	18.45	18.45	18.37	18.38					
20	256QAM	1	49	18.30	18.37	18.33	18.31					
20	256QAM	1	99	18.25	18.32	18.28	18.26					
20	256QAM	50	0	18.71	18.18	18.14	18.12	18	2			
20	256QAM	50	24	18.05	18.08	18.02	18.04					
20	256QAM	50	50	18.10	18.14	18.06	18.06					
20	256QAM	100	0	18.04	18.11	18.02	18.08					
Channel				56715	56820	56760	56850					
Frequency (MHz)				56715	56820	56760	56850					
15	QPSK	1	0	18.03	19.07	18.39	18.38	20	0			
15	QPSK	1	37	18.74	19.01	18.88	18.77					
15	QPSK	1	74	18.90	19.02	18.96	18.88					
15	QPSK	86	0	18.87	19.02	19.00	18.81					
15	QPSK	86	20	18.72	18.93	18.89	18.87	20	0			
15	QPSK	75	0	18.72	18.83	18.88	18.88					
15	QPSK	75	0	18.78	18.94	18.95	18.82					
15	16QAM	1	0	18.59	18.63	18.62	18.67					
15	16QAM	1	37	18.07	18.54	18.52	18.45	20	0			
15	16QAM	1	74	18.40	18.59	18.54	18.57					
15	16QAM	58	0	18.55	18.61	18.60	18.58					
15	16QAM	86	20	18.51	18.54	18.40	18.47					
15	16QAM	86	39	18.51	18.53	18.42	18.43	20	0			
15	16QAM	75	0	18.48	18.61	18.50	18.42					
15	64QAM	1	0	18.34	18.40	18.39	18.37					
15	64QAM	1	37	18.40	18.60	18.53	18.51					
15	64QAM	1	74	18.25	18.31	18.16	18.26	20	0			
15	64QAM	86	0	18.35	18.35	18.33	18.29					
15	64QAM	86	20	18.28	18.31	18.24	18.24					
15	64QAM	86	39	18.25	18.25	18.24	18.25					
15	64QAM	75	0	18.31	18.37	18.29	18.27	18	2			
15	256QAM	1	0	18.41	18.37	18.33	18.32					
15	256QAM	1	37	18.20	18.34	18.28	18.28					
15	256QAM	1	74	18.18	18.28	18.20	18.18					
15	256QAM	86	0	18.03	18.12	18.10	18.06	18			2	
15	256QAM	86	20	18.07	18.00	18.02	18.05					
15	256QAM	86	39	18.03	18.07	18.03	18.04					
15	256QAM	75	0	18.02	18.06	18.03	18.02					
Channel				56930	56810	56760	56990					
Frequency (MHz)				56930	56810	56760	56990					
10	QPSK	1	0	18.91	19.16	19.02	18.97	20	0			
10	QPSK	1	25	18.77	18.98	18.90	18.80					
10	QPSK	1	49	18.97	19.08	19.04	18.93					
10	QPSK	25	0	18.84	19.09	19.01	18.92					
10	QPSK	25	12	18.70	18.98	18.91	18.85	20	0			
10	QPSK	25	25	18.78	18.91	18.95	18.82					
10	QPSK	80	0	18.74	19.02	18.96	18.82					
10	16QAM	1	0	18.03	18.67	18.53	18.64					
10	16QAM	1	25	18.48	18.64	18.45	18.50	20	0			
10	16QAM	1	49	18.41	18.62	18.52	18.47					
10	16QAM	25	0	18.40	18.58	18.51	18.61					
10	16QAM	25	12	18.50	18.61	18.49	18.45					
10	16QAM	25	25	18.50	18.61	18.49	18.45	20	0			
10	64QAM	1	0	18.30	18.40	18.39	18.33					
10	64QAM	1	25	18.40	18.54	18.53	18.49					
10	64QAM	1	49	18.27	18.30	18.20	18.28					
10	64QAM	25	0	18.40	18.40	18.31	18.29	20	0			
10	64QAM	25	12	18.23	18.33	18.25	18.26					
10	64QAM	25	25	18.18	18.24	18.22	18.18					
10	64QAM	80	0	18.27	18.30	18.27	18.29					
10	256QAM	1	0	18.41	18.41	18.35	18.32	18	2			
10	256QAM	1	25	18.25	18.35	18.25	18.25					
10	256QAM	1	49	18.21	18.23	18.25	18.18					
10	256QAM	25	0	18.04	18.11	18.09	18.08					
10	256QAM	25	12	18.00	18.04	18.05	18.04	18	2			
10	256QAM	25	25	18.07	18.00	18.04	18.03					
10	256QAM	50	0	18.03	18.03	18.03	18.06					
Channel				56920	56810	56710	56710					
Frequency (MHz)				56920	56810	56710	56710					
5	QPSK	1	0	18.91	19.14	19.02	18.93	20	0			
5	QPSK	1	12	18.70	18.99	18.92	18.81					
5	QPSK	1	24	18.97	19.06	19.01	18.99					
5	QPSK	12	0	18.80	18.99	18.97	18.81					
5	QPSK	12	7	18.89	18.89	18.85	18.89	20	0			
5	QPSK	12	13	18.74	18.95	18.94	18.77					
5	QPSK	25	0	18.78	18.66	18.97	18.78					
5	16QAM	1	0	18.07	18.67	18.54	18.66					
5	16QAM	1	12	18.48	18.54	18.49	18.51	20	0			
5	16QAM	1	24	18.40	18.54	18.47	18.48					
5	16QAM	12	0	18.44	18.58	18.59	18.53					
5	16QAM	12	7	18.58	18.54	18.39	18.45					
5	16QAM	12	13	18.48	18.51	18.37	18.50	20	0			
5	64QAM	25	0	18.40	18.61	18.53	18.45					
5	64QAM	1	0	18.31	18.37	18.36	18.35					
5	64QAM	1	12	18.43	18.54	18.52	18.50					
5	64QAM	1	24	18.24	18.28	18.20	18.25	20	0			
5	64QAM	12	0	18.34	18.43	18.31	18.40					
5	64QAM	12	7	18.25	18.31	18.29	18.26					
5	64QAM	12	13	18.18	18.27	18.20	18.18					
5	64QAM	25	0	18.30	18.30	18.24	18.30	18	2			
5	256QAM	1	0	18.41	18.35	18.32	18.31					
5	256QAM	1	12	18.25	18.30	18.28	18.21					
5	256QAM	1	24	18.17	18.24	18.20	18.18					
5	256QAM	12	0	18.04	18.11	18.08	18.08	18	2			
5	256QAM	12	7	18.00	18.01	18.03	18.03	18	2			
5	256QAM	12	13	18.00	18.10	18.02	18.03					

GBM 1000 And Default						
GBM1000	Band Average Power (dBm)			Frame Average Power (dBm)		
Rx Channel	1810	1810	1810	Limit	1810	1810
Frequency (MHz)	1800.0	1800	1800.0	Limit	1800.0	1800.0
GBM 1 Tx rate	30.09	30.14	30.09	30.00	31.09	30.09
GBM 1 Tx rate	30.11	30.17	30.09	30.00	31.11	30.09
GBM 2 Tx rate	27.68	28.02	27.81	29.00	27.68	27.81
GBM 3 Tx rate	26.96	26.09	26.31	27.00	22.30	22.00
GBM 4 Tx rate	24.07	24.12	23.97	25.00	21.07	20.97
EDGE 1 Tx rate	23.74	23.00	23.50	20.00	18.74	18.50
EDGE 2 Tx rate	24.08	24.13	23.80	25.00	18.08	17.80
EDGE 3 Tx rate	22.89	23.01	22.76	24.00	18.70	18.50
EDGE 4 Tx rate	21.77	20.00	20.90	22.00	17.77	17.50
WCDMA II And DSS Simultaneous				WCDMA IV And DSS Simultaneous		
Band	WCDMA II			WCDMA IV		
Rx Channel	8600	8600	8600	Limit	8600	8600
Frequency (MHz)	8600.0	8600	8600.0	Limit	8600.0	8600.0
SOPF Rel 99	20.96	21.14	21.00	22.00	20.70	20.60
SOPF Rel 99	21.02	21.16	21.11	22.00	20.80	20.80
SOPF Rel 6	19.16	20.00	20.00	21.00	18.70	18.60
SOPF Rel 6	19.07	20.08	20.07	21.00	18.38	18.58
SOPF Rel 6	19.51	19.74	19.74	20.00	19.00	19.50
SOPF Rel 6	19.89	19.94	19.48	20.00	19.37	19.30
SOPF Rel 6	20.49	20.42	20.13	21.00	20.14	19.71
SOPF Rel 6	20.44	20.18	20.44	21.00	20.08	20.01
SOPF Rel 6	19.05	19.00	19.48	20.00	19.30	19.27
SOPF Rel 6	19.05	19.27	19.77	20.00	19.17	19.50
SOPF Rel 6	19.32	20.04	20.08	21.00	19.91	19.60
SOPF Rel 6	19.30	19.00	19.12	19.00	17.97	17.50
SOPF Rel 6	19.11	19.14	19.00	20.00	18.64	18.50
SOPF Rel 6	18.09	18.13	18.35	19.00	17.50	17.51
SOPF Rel 6	20.07	20.46	20.07	21.00	19.70	20.00

Band 2 Ant2 DS15 Simultaneous														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 1867.5	Power Mid Ch./Freq. 1880.0	Power High Ch./Freq. 1892.5	Time-up Init. (sec)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	20.16	20.24	20.23	21.8	0						
20	QPSK	1	49	20.00	20.21	20.21								
20	QPSK	1	99	19.88	20.08	19.87								
20	QPSK	50	0	20.09	20.11	20.10								
20	QPSK	50	24	19.85	20.02	20.03	21.8	0						
20	QPSK	50	50	20.08	20.05	20.02								
20	QPSK	100	0	20.08	20.24	20.14								
20	16QAM	50	0	20.08	20.08	20.18								
20	16QAM	1	49	19.88	20.07	19.97	21.8	0						
20	16QAM	1	99	20.04	19.97	19.97								
20	16QAM	50	0	19.90	20.07	19.99								
20	16QAM	50	24	19.85	19.94	19.85								
20	16QAM	50	50	20.06	19.94	19.82	21.5	0.3						
20	16QAM	100	0	19.74	20.16	19.93								
20	64QAM	1	0	20.05	20.30	20.21								
20	64QAM	1	49	19.83	20.01	19.84								
20	64QAM	1	99	19.95	20.04	19.99	21.5	0.3						
20	64QAM	50	0	19.85	20.01	19.79								
20	64QAM	50	24	19.94	20.03	19.76								
20	64QAM	50	50	20.06	19.94	19.82								
20	64QAM	100	0	19.74	20.16	19.93	19.5	2.3						
20	64QAM	1	49	18.08	19.02	18.11								
20	256QAM	1	49	18.12	18.06	18.15								
20	256QAM	3	24	17.95	17.91	17.92								
20	256QAM	50	24	17.95	17.91	17.92								
20	256QAM	50	50	17.81	18.01	18.08								
20	256QAM	100	0	17.76	18.14	18.15								
Channel														
Frequency (MHz)														
16	QPSK	1	0	20.04	20.23	20.10	21.8	0						
16	QPSK	1	37	19.87	20.01	19.98								
16	QPSK	1	74	19.86	20.01	19.84								
16	QPSK	36	0	20.08	20.08	20.03								
16	QPSK	36	39	19.88	20.00	19.91	21.8	0						
16	QPSK	75	0	20.01	20.19	20.04								
16	16QAM	1	0	19.98	20.16	20.11								
16	16QAM	1	37	19.88	19.96	19.92								
16	16QAM	1	74	19.86	19.98	19.92	21.8	0						
16	16QAM	36	0	19.86	20.00	19.90								
16	16QAM	36	39	19.83	19.89	19.85								
16	16QAM	36	75	20.09	20.02	19.99								
16	64QAM	1	0	19.98	20.22	20.10	21.8	0						
16	64QAM	1	37	19.87	19.99	19.94								
16	64QAM	1	74	19.83	19.91	19.83								
16	64QAM	36	0	19.85	19.77	19.81								
16	64QAM	36	39	19.84	19.95	19.85	21.5	0.3						
16	64QAM	75	0	19.80	19.86	19.76								
16	256QAM	1	0	17.86	17.97	17.84								
16	256QAM	1	37	18.05	17.87	17.83								
16	256QAM	1	74	18.05	17.74	17.83	19.5	2.3						
16	256QAM	36	0	17.84	17.87	17.87								
16	256QAM	36	20	17.82	17.87	17.84								
16	256QAM	36	39	17.76	17.82	18.01								
16	256QAM	75	0	17.86	17.82	18.01	19.5	2.3						
16	256QAM	75	20	17.86	17.82	18.01								
Channel														
Frequency (MHz)														
10	QPSK	1	0	20.07	20.08	19.95					21.8	0		
10	QPSK	1	25	19.89	20.12	19.95								
10	QPSK	1	49	19.85	19.99	19.85								
10	QPSK	25	0	19.89	20.00	19.92								
10	QPSK	25	12	19.81	19.98	19.92	21.8	0						
10	QPSK	25	25	20.01	20.01	19.97								
10	QPSK	25	49	19.86	19.95	19.91								
10	16QAM	1	0	20.03	20.16	20.14								
10	16QAM	1	25	19.87	20.00	19.94	21.8	0						
10	16QAM	1	49	19.87	19.98	19.92								
10	16QAM	25	0	19.89	20.02	19.89								
10	16QAM	25	12	19.85	19.93	19.89								
10	16QAM	36	0	19.84	19.97	19.87	21.8	0						
10	16QAM	36	24	19.85	19.90	19.85								
10	16QAM	50	0	20.07	19.95	19.91								
10	64QAM	1	0	19.92	20.17	20.18								
10	64QAM	1	49	19.83	19.98	19.84	21.8	0						
10	64QAM	1	99	19.83	19.98	19.84								
10	64QAM	25	0	19.79	19.87	19.74								
10	64QAM	25	12	19.81	19.94	19.81								
10	64QAM	25	25	19.95	19.94	19.81	21.5	0.3						
10	64QAM	50	0	19.82	19.88	19.75								
10	256QAM	1	0	17.92	17.92	17.82								
10	256QAM	1	25	18.04	17.80	17.79								
10	256QAM	1	25	18.01	17.87	17.81	19.5	2.3						
10	256QAM	25	12	17.81	17.78	17.81								
10	256QAM	25	25	17.67	17.67	18.03								
10	256QAM	50	0	17.81	18.00	17.83								
Channel														
Frequency (MHz)														
5	QPSK	1	0	20.05	20.20	20.11	21.8	0						
5	QPSK	1	12	19.91	20.14	19.89								
5	QPSK	1	24	19.90	20.06	19.87								
5	QPSK	12	0	19.88	20.01	19.84								
5	QPSK	12	7	19.82	19.95	19.80	21.8	0						
5	QPSK	12	13	20.04	19.88	19.93								
5	QPSK	25	0	19.85	20.17	19.87								
5	16QAM	1	0	19.89	20.24	20.07								
5	16QAM	1	12	19.85	20.05	19.85	21.8	0						
5	16QAM	1	24	19.82	19.83	19.82								
5	16QAM	12	0	19.88	19.94	19.92								
5	16QAM	12	7	19.86	19.92	19.87								
5	16QAM	12	13	19.85	19.81	19.81	21.8	0						
5	16QAM	25	0	20.07	19.97	19.99								
5	64QAM	1	0	20.02	20.17	20.19								
5	64QAM	1	12	19.88	19.88	19.84								
5	64QAM	1	24	19.87	20.01	19.80	21.5	0.3						
5	64QAM	12	0	19.87	19.90	19.68								
5	64QAM	12	7	19.78	19.90	19.68								
5	64QAM	12	13	19.81	19.81	19.73								
5	256QAM	1	0	17.93	17.93	17.82	19.5	2.3						
5	256QAM	1	12	17.90	17.80	17.71								
5	256QAM	1	24	17.89	17.84	17.94								
5	256QAM	12	0	17.82	17.82	17.82								
5	256QAM	12	7	17.76	17.79	17.86	19.5	2.3						
5	256QAM	12	13	17.85	17.79	17.86								
5	256QAM	25	0	17.81	18.02	18.00	19.5	2.3						
Channel														
Frequency (MHz)														
3	QPSK	1	0	20.05	20.20	20.11					21.8	0		
3	QPSK	1	12	19.91	20.14	19.89								
3	QPSK	1	24	19.90	20.06	19.87								
3	QPSK	12	0	19.88	20.01	19.84								
3	QPSK	12	7	19.82	19.95	19.80	21.8	0						
3	QPSK	12	13	20.04	19.88	19.93								
3	QPSK	25	0	19.85	20.17	19.87								
3	16QAM	1	0	19.89	20.24	20.07								
3	16QAM	1	12	19.85	20.05	19.85	21.8	0						
3	16QAM	1	24	19.82	19.83	19.82								
3	16QAM	12	0	19.88	19.94	19.92								
3	16QAM	12	7	19.86	19.92	19.87								
3	16QAM	12	13	19.85	19.81	19.81	21.8	0						
3	16QAM	25	0	20.07	19.97	19.99								
3	64QAM	1	0	20.02	20.17	20.19								
3	64QAM	1	12	19.88	19.88	19.84								
3	64QAM	1	24	19.87	20.01	19.80	21.5	0.3						
3	64QAM	12	0	19.87	19.90	19.68								
3	64QAM	12	7	19.78	19.90	19.68								
3	64QAM	12	13	19.81	19.81	19.73								
3	256QAM	1	0	17.93	17.93	17.82	19.5	2.3						
3	256QAM	1	12	17.90	17.80	17.71								
3	256QAM	1	24	17.89	17.84	17.94								
3	256QAM	12	0	17.82	17.82	17.82								
3	256QAM	12	7	17.76	17.79	17.86	19.5	2.3						
3	256QAM	12	13	17.85	17.79	17.86								
3	256QAM	25	0	17.81	18.02	18.00	19.5	2.3						
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	20.05	20.23	20.21					21.8	0		
1.4	QPSK	1	12	19.91	20.15	19.90								
1.4	QPSK	1	24	19.90	20.08	19.87								
1.4	QPSK	1	49	19.81	20.05	19.87								
1.4	QPSK	1	99	19.81	20.05	19.87	21.8	0						
1.4	QPSK	3	0	19.91	20.05	19.87								
1.4	QPSK	3	24	19.96	20.00	19.98								
1.4	QPSK	3	49	19.82	20.00	19.88								
1.4	QPSK	3	99	19.82	20.00	19.88	21.8	0						
1.4	QPSK	3	204	20.04	19.94	19.84								
1.4	QPSK	6	0	20.00	20.18	20.10								
1.4	QPSK	6	24	19.95	20.01	19.94								
1.4	QPSK	6	49	19.86	20.01	19.84	21.5	0.3						
1.4	QPSK	6	99	19.94	19.91	19.92								
1.4	QPSK	6	204	19.94	19.91	19.92								
1.4	QPSK	6	408	19.84	19.89	19.88								
1.4	QPSK	3	0	19.87	19.94	19.88	21.8	0						
1.4	QPSK	3	24	19.93	19.81	19.89								
1.4	QPSK	3	49	19.86	19.94	19.88								
1.4	QPSK	3	99	19.86	19.94	19.88								
1.4	QPSK	3	204	20.00	20.19	20.19	21.8	0						
1.4	QPSK	3	408	19.96	19.91	19.86								
1.4	QPSK	3	816	19.86	19.86	19.86								
1.4	QPSK	3	1632	19.86	19.86	19.86								
1.4	QPSK	3	0	20.08	20.22	20.11	21.8	0						
1.4	QPSK	3	24	19.95	20.12	19.90								
1.4	QPSK	3	49	19.85	20.04	19.83								
1.4	QPSK	3	99	19.85	20.04	19.83								
1.4	QPSK	3	204	20.00	20.18	20.18	21.5	0.3						
1.4	QPSK	3	408	19.90	19.94	19.88								
1.4	QPSK	3	816	19.80	19.84	19.88								
1.4	QPSK	3	1632	19.80	19.84	19.88								

Band 25 Ant2 DSI5 Simultaneous														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 2645	Power Middle Ch./Freq. 2646	Power High Ch./Freq. 2647	Turn-up time (sec)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	20.22	20.47	20.27	21.8	0						
20	QPSK	1	48	20.05	20.24	20.10								
20	QPSK	1	96	20.09	20.13	20.01								
20	QPSK	50	0	20.15	20.20	20.18	21.8	0						
20	QPSK	50	24	19.97	20.12	20.08								
20	QPSK	50	50	20.17	20.16	20.08								
20	QPSK	100	0	20.21	20.30	20.17	21.8	0						
20	16QAM	1	0	20.16	20.38	20.24								
20	16QAM	1	48	19.99	20.11	20.02								
20	16QAM	1	96	20.08	20.06	19.99	21.8	0						
20	16QAM	50	0	20.03	20.14	20.13								
20	16QAM	50	24	19.95	20.04	19.93								
20	16QAM	50	50	20.10	20.03	20.05	21.8	0						
20	16QAM	100	0	20.16	20.16	20.15								
20	64QAM	1	0	20.11	20.30	20.24								
20	64QAM	1	48	19.96	20.12	19.97	21.8	0						
20	64QAM	50	0	19.98	20.06	19.97								
20	64QAM	50	0	20.15	20.14	20.11								
20	64QAM	50	24	19.90	20.16	19.90	21.5	0.3						
20	64QAM	50	50	20.00	20.11	19.91								
20	64QAM	100	0	20.16	20.16	20.15								
20	64QAM	100	0	20.13	20.12	19.99	19.5	2.3						
20	256QAM	1	0	19.93	19.92	19.97								
20	256QAM	1	48	19.05	19.20	19.00								
20	256QAM	1	96	17.87	18.08	17.87	19.5	2.3						
20	256QAM	50	0	17.88	17.88	17.88								
20	256QAM	50	24	17.99	18.04	18.00								
20	256QAM	50	50	17.88	18.08	17.89	19.5	2.3						
20	256QAM	50	0	17.88	18.08	17.89								
20	256QAM	100	0	17.90	17.90	17.89								
Channel														
Frequency (MHz)														
15	QPSK	1	0	19.87	19.90	19.87	21.8	0						
15	QPSK	1	48	19.75	19.81	19.73								
15	QPSK	1	74	20.05	20.06	19.95								
15	QPSK	36	0	20.03	20.14	20.11	21.8	0						
15	QPSK	36	18	19.87	19.91	19.90								
15	QPSK	36	36	20.07	20.05	20.03								
15	QPSK	75	0	20.16	20.17	20.09	21.8	0						
15	16QAM	1	0	20.10	20.32	20.17								
15	16QAM	1	37	19.89	19.98	19.93								
15	16QAM	1	74	20.11	20.04	19.95	21.8	0						
15	16QAM	36	0	19.96	20.03	19.96								
15	16QAM	36	20	19.82	19.98	19.85								
15	16QAM	36	37	19.93	19.99	19.96	21.8	0						
15	16QAM	75	0	20.04	20.09	19.98								
15	64QAM	1	0	19.69	20.32	20.15	21.8	0						
15	64QAM	1	48	19.73	19.97	19.83								
15	64QAM	1	74	19.85	20.02	19.95								
15	64QAM	36	0	20.06	19.98	19.98	21.5	0.3						
15	64QAM	36	20	19.76	19.99	19.76								
15	64QAM	36	39	19.90	20.05	19.76								
15	64QAM	75	0	20.01	19.86	19.76	19.5	2.3						
15	256QAM	1	0	17.79	18.13	17.80								
15	256QAM	1	74	17.75	17.84	17.82								
15	256QAM	36	0	17.86	17.86	17.86	19.5	2.3						
15	256QAM	36	20	17.80	17.84	17.77								
15	256QAM	36	39	17.74	18.05	17.73								
15	256QAM	75	0	17.74	17.80	17.83	19.5	2.3						
15	256QAM	75	0	17.76	17.82	17.83								
Channel														
Frequency (MHz)														
10	QPSK	1	0	20.14	20.44	20.14					21.8	0		
10	QPSK	1	25	19.95	20.21	19.98								
10	QPSK	1	49	20.00	20.03	19.94								
10	QPSK	25	0	20.08	20.17	20.08	21.8	0						
10	QPSK	25	12	19.94	19.97	20.02								
10	QPSK	25	25	20.09	20.02	19.96								
10	QPSK	50	0	20.08	20.18	20.04	21.8	0						
10	16QAM	1	0	20.04	20.23	20.18								
10	16QAM	1	25	19.89	20.09	19.89								
10	16QAM	1	49	19.95	20.08	19.91	21.8	0						
10	16QAM	25	0	19.93	19.99	19.86								
10	16QAM	25	12	19.80	19.99	19.86								
10	16QAM	25	25	20.03	19.98	19.83	21.8	0						
10	16QAM	50	0	20.04	20.08	20.08								
10	64QAM	1	0	20.02	20.29	20.17	21.8	0						
10	64QAM	1	25	19.89	20.06	19.89								
10	64QAM	1	49	19.89	20.06	19.87								
10	64QAM	25	0	19.99	20.01	19.87	21.5	0.3						
10	64QAM	25	12	19.86	20.01	19.75								
10	64QAM	25	25	19.76	20.03	19.68								
10	64QAM	50	0	19.98	19.97	19.94	19.5	2.3						
10	256QAM	1	0	18.11	18.16	18.05								
10	256QAM	1	25	17.96	18.03	17.75								
10	256QAM	1	49	17.85	17.85	17.73	19.5	2.3						
10	256QAM	25	0	17.82	17.87	17.87								
10	256QAM	25	12	17.71	17.77	17.84								
10	256QAM	25	25	17.82	17.88	17.81	19.5	2.3						
10	256QAM	50	0	17.86	17.82	18.02								
10	256QAM	50	0	17.86	17.82	18.02								
Channel														
Frequency (MHz)														
5	QPSK	1	0	20.13	20.43	20.13	21.8	0						
5	QPSK	1	12	20.02	20.17	19.96								
5	QPSK	1	24	19.95	20.01	20.08								
5	QPSK	12	0	19.96	19.93	19.96	21.8	0						
5	QPSK	12	7	19.84	19.93	19.92								
5	QPSK	12	13	20.14	20.08	20.04								
5	QPSK	24	0	20.09	20.02	19.98	21.8	0						
5	16QAM	1	0	20.13	20.23	20.17								
5	16QAM	1	12	19.94	20.06	19.99								
5	16QAM	1	24	20.00	19.94	19.83	21.8	0						
5	16QAM	12	0	19.97	20.11	20.02								
5	16QAM	12	7	19.83	19.93	19.91								
5	16QAM	12	13	20.06	19.94	19.96	21.8	0						
5	16QAM	25	0	20.03	20.03	20.00								
5	64QAM	1	0	20.00	20.29	20.15	21.8	0						
5	64QAM	1	12	19.87	20.03	19.87								
5	64QAM	1	24	19.90	19.89	19.82								
5	64QAM	12	0	19.99	20.02	19.94	21.5	0.3						
5	64QAM	12	13	19.78	19.97	19.78								
5	64QAM	25	0	19.82	20.04	19.83								
5	64QAM	25	13	19.94	19.93	19.89	19.5	2.3						
5	64QAM	50	0	19.13	19.11	17.91								
5	256QAM	1	0	17.85	17.85	17.71								
5	256QAM	1	24	17.71	17.83	17.83	19.5	2.3						
5	256QAM	12	0	17.94	17.82	17.88								
5	256QAM	12	7	17.82	17.86	17.74								
5	256QAM	12	13	17.87	17.89	17.87	19.5	2.3						
5	256QAM	25	0	17.84	18.00	17.82								
5	256QAM	25	0	17.84	17.88	17.83								
Channel														
Frequency (MHz)														
3	QPSK	1	0	20.10	20.34	20.17	21.8	0						
3	QPSK	1	12	20.02	20.17	19.96								
3	QPSK	1	24	19.95	20.01	20.08								
3	QPSK	1	14	20.00	20.05	19.97	21.8	0						
3	QPSK	8	0	20.11	20.17	20.05								
3	QPSK	8	7	19.97	20.02	19.95								
3	QPSK	8	7	20.13	20.13	19.94	21.8	0						
3	QPSK	16	0	20.13	20.19	20.11								
3	QPSK	16	7	19.92	20.01	20.05								
3	16QAM	1	8	19.90	20.05	19.88	21.8	0						
3	16QAM	1	14	20.02	20.00	19.86								
3	16QAM	1	20	19.95	20.00	19.85								
3	16QAM	8	4	19.89	20.01	19.92	21.8	0						
3	16QAM	8	4	19.89	20.01	19.92								
3	16QAM	8	4	19.89	20.01	19.92								
3	16QAM	8	4	19.89	20.01	19.92	21.8	0						
3	16QAM	8	4	19.89	20.01	19.92								
3	16QAM	8	4	19.89	20.01	19.92								
3	16QAM	16	0	20.09	19.98	19.93	21.5	0.3						
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93	19.5	2.3						
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93	19.5	2.3						
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93	19.5	2.3						
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93	19.5	2.3						
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93	19.5	2.3						
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93	19.5	2.3						
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93	19.5	2.3						
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93	19.5	2.3						
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93								
3	16QAM	16	0	19.98	20.02	19.93								



Band 38 Ant2 DS15 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.56	19.50	19.57	20.5	0		
20	QPSK	1	49	19.31	19.45	19.44				
20	QPSK	1	99	19.37	19.45	19.37				
20	QPSK	1	49	19.45	19.45	19.51				
20	QPSK	50	24	19.21	19.44	19.27	20.5	0		
20	QPSK	50	24	19.50	19.52	19.38				
20	QPSK	100	0	19.46	19.53	19.42				
20	HQAM	1	0	19.42	19.51	19.40				
20	HQAM	1	49	19.15	19.38	19.35	20.5	0		
20	HQAM	1	99	19.23	19.43	19.38				
20	HQAM	50	0	19.42	19.51	19.39				
20	HQAM	50	24	19.07	19.52	19.28				
20	HQAM	50	50	19.19	19.26	19.27	20.5	0		
20	HQAM	100	0	19.22	19.46	19.40				
20	HQAM	100	0	19.52	19.51	19.50				
20	HQAM	1	49	19.14	19.48	19.43				
20	HQAM	50	0	19.38	19.39	19.25	20	0.5		
20	HQAM	50	24	18.20	19.32	18.23				
20	HQAM	50	50	19.24	19.31	19.23				
20	HQAM	100	0	19.29	19.38	19.32				
20	25QAM	1	0	19.23	19.33	19.31	18	2.5		
20	25QAM	1	49	19.27	19.51	19.17				
20	25QAM	1	99	19.27	19.31	19.29				
20	25QAM	50	24	18.23	19.34	18.26				
20	25QAM	50	50	19.18	19.31	19.28	18	2.5		
20	25QAM	100	0	19.24	19.40	19.33				
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.52	19.50	19.43	20.5	0		
15	QPSK	1	37	19.28	19.44	19.47				
15	QPSK	1	74	19.29	19.32	19.36				
15	QPSK	36	20	19.18	19.48	19.27				
15	QPSK	36	20	19.52	19.47	19.49	20.5	0		
15	QPSK	75	0	19.44	19.48	19.35				
15	HQAM	1	0	19.41	19.47	19.43				
15	HQAM	1	74	19.21	19.37	19.42				
15	HQAM	1	74	19.20	19.42	19.37	20.5	0		
15	HQAM	36	0	19.47	19.55	19.25				
15	HQAM	36	20	19.15	19.47	19.49				
15	HQAM	36	39	19.13	19.23	19.24				
15	HQAM	75	0	19.21	19.48	19.25	20.5	0		
15	HQAM	75	0	19.25	19.52	19.48				
15	HQAM	1	37	19.14	19.48	19.44				
15	HQAM	1	74	19.26	19.29	19.20				
15	HQAM	1	49	19.41	19.51	19.49	20	0.5		
15	HQAM	36	20	19.14	19.21	19.22				
15	HQAM	36	39	19.14	19.21	19.22				
15	HQAM	75	0	19.15	19.32	19.21				
15	25QAM	1	0	19.11	19.27	19.18	18	2.5		
15	25QAM	1	49	19.27	19.50	19.18				
15	25QAM	1	74	19.23	19.32	19.18				
15	25QAM	36	20	19.14	19.27	19.15				
15	25QAM	36	39	19.14	19.26	19.21	18	2.5		
15	25QAM	75	0	19.10	19.36	19.24				
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.50	19.51	19.50	20.5	0		
10	QPSK	1	25	19.24	19.47	19.54				
10	QPSK	1	49	19.52	19.47	19.31				
10	QPSK	25	0	19.45	19.51	19.41				
10	QPSK	25	12	19.20	19.50	19.32	20.5	0		
10	QPSK	25	25	19.28	19.30	19.38				
10	QPSK	50	0	19.37	19.50	19.39				
10	HQAM	1	0	19.40	19.49	19.41				
10	HQAM	1	25	19.20	19.33	19.40	20.5	0		
10	HQAM	1	49	19.24	19.51	19.36				
10	HQAM	25	0	19.49	19.46	19.39				
10	HQAM	25	19	19.10	19.44	19.33				
10	HQAM	1	0	19.50	19.47	19.41	20.5	0		
10	HQAM	1	25	19.15	19.38	19.35				
10	HQAM	25	0	19.32	19.33	19.19				
10	HQAM	50	0	19.30	19.44	19.41				
10	HQAM	1	25	19.14	19.44	19.41	20.5	0		
10	HQAM	1	49	19.17	19.31	19.41				
10	HQAM	25	12	19.18	19.20	19.16				
10	HQAM	25	25	19.25	19.33	19.23				
10	HQAM	50	0	19.25	19.33	19.23	20	0.5		
10	HQAM	50	0	19.25	19.33	19.23				
10	25QAM	1	0	19.13	19.27	19.14				
10	25QAM	1	25	19.26	19.37	19.24				
10	25QAM	1	49	19.15	19.38	19.16	18	2.5		
10	25QAM	1	49	19.15	19.38	19.16				
10	25QAM	25	0	19.15	19.24	19.21				
10	25QAM	25	25	19.10	19.35	19.30				
10	25QAM	25	25	19.07	19.25	19.21	18	2.5		
10	25QAM	50	0	19.19	19.36	19.22				
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.50	19.51	19.50	20.5	0		
5	QPSK	1	12	19.30	19.54	19.44				
5	QPSK	1	24	19.42	19.49	19.30				
5	QPSK	12	0	19.45	19.57	19.52				
5	QPSK	12	7	19.16	19.48	19.28	20.5	0		
5	QPSK	12	13	19.35	19.37	19.34				
5	QPSK	25	0	19.44	19.44	19.36				
5	HQAM	1	0	19.39	19.41	19.39				
5	HQAM	1	12	19.19	19.34	19.39	20.5	0		
5	HQAM	1	24	19.20	19.52	19.30				
5	HQAM	12	0	19.42	19.53	19.28				
5	HQAM	12	7	19.08	19.47	19.27				
5	HQAM	12	13	19.23	19.19	19.26	20.5	0		
5	HQAM	25	0	19.24	19.51	19.25				
5	HQAM	25	0	19.49	19.34	19.49				
5	HQAM	1	12	19.09	19.46	19.46				
5	HQAM	1	24	19.21	19.34	19.21	20	0.5		
5	HQAM	12	0	19.20	19.30	19.19				
5	HQAM	12	7	19.07	19.28	19.14				
5	HQAM	12	13	19.18	19.18	19.14				
5	HQAM	25	0	19.20	19.25	19.29	20	0.5		
5	HQAM	25	0	19.20	19.25	19.29				
5	HQAM	25	12	19.16	19.20	19.17				
5	25QAM	1	0	19.23	19.30	19.21				
5	25QAM	1	24	18.18	19.31	18.17	18	2.5		
5	25QAM	12	0	19.28	19.28	19.23				
5	25QAM	12	7	19.15	19.28	19.20				
5	25QAM	12	13	19.15	19.23	19.20				



Band 48_FCC Ant2 Default														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPP (dB)					
Channel				56500	56600	56700	56800							
Frequency (MHz)				56500	56600	56700	56800							
20	QPSK	1	0	19.22	19.40	19.24	19.12	21	0					
20	QPSK	1	49	19.20	19.38	19.20	19.07							
20	QPSK	1	99	19.18	19.36	19.16	19.04							
20	QPSK	50	0	19.23	19.26	19.20	19.01							
20	QPSK	50	24	19.18	19.22	19.08	19.04	21	0					
20	QPSK	50	39	19.17	19.21	19.11	19.02							
20	QPSK	100	0	19.19	19.26	19.12	19.01							
20	16QAM	1	0	19.26	19.30	19.33	19.22							
20	16QAM	1	49	19.25	19.27	19.23	19.20	21	0					
20	16QAM	1	99	19.20	19.20	19.26	19.26							
20	16QAM	50	0	19.23	19.31	19.20	19.23							
20	16QAM	50	24	19.18	19.22	19.13	19.11							
20	64QAM	100	0	19.16	19.27	19.16	19.10	21	0					
20	64QAM	1	0	19.15	19.22	19.20	19.26							
20	64QAM	1	49	19.13	19.13	19.08	19.12							
20	64QAM	1	99	19.03	19.14	19.11	19.05							
20	64QAM	50	0	19.22	19.34	19.27	19.18	20	1					
20	64QAM	50	24	19.26	19.36	19.17	19.12							
20	64QAM	50	50	19.25	19.25	19.10	19.15							
20	64QAM	100	0	19.26	19.24	19.07	19.19							
20	256QAM	1	0	19.27	19.35	19.20	19.12	18	3					
20	256QAM	1	49	19.27	19.33	19.12	19.09							
20	256QAM	1	99	19.30	19.31	19.17	19.09							
20	256QAM	50	0	19.24	19.43	19.18	19.09							
20	256QAM	50	24	19.20	19.35	19.23	19.12	18	3					
20	256QAM	50	50	19.28	19.32	19.14	19.05							
20	256QAM	100	0	19.14	19.22	19.05	19.12							
20	256QAM	100	0	19.14	19.22	19.05	19.12							
Channel				56700	56800	56900	56900							
Frequency (MHz)				56700	56800	56900	56900							
15	QPSK	1	0	19.14	19.33	19.19	19.25	21	0					
15	QPSK	1	37	19.18	19.28	19.13	19.05							
15	QPSK	1	74	19.07	19.20	19.11	19.02							
15	QPSK	86	0	19.19	19.26	19.13	19.03							
15	QPSK	86	20	19.08	19.14	19.02	19.01	21	0					
15	16QAM	1	0	19.10	19.13	19.04	19.08							
15	QPSK	75	0	19.12	19.22	19.08	19.08							
15	16QAM	1	0	19.19	19.20	19.31	19.15	21	0					
15	16QAM	1	37	19.26	19.24	19.14	19.13							
15	16QAM	1	74	19.20	19.21	19.25	19.23							
15	16QAM	58	0	19.21	19.27	19.14	19.21							
15	16QAM	86	20	19.14	19.12	19.04	19.05	21	0					
15	16QAM	86	39	19.06	19.17	19.11	19.05							
15	16QAM	75	0	19.06	19.18	19.08	19.01							
15	64QAM	1	0	19.11	19.14	19.12	19.21							
15	64QAM	1	37	19.06	19.11	19.06	19.07	21	0					
15	64QAM	1	74	19.03	19.05	19.07	19.02							
15	64QAM	86	0	19.11	19.31	19.21	19.13							
15	64QAM	86	20	19.24	19.34	19.14	19.06	20	1					
15	64QAM	86	37	19.22	19.27	19.06	19.07							
15	64QAM	75	0	19.20	19.15	19.02	19.05							
15	256QAM	1	0	19.26	19.29	19.17	19.05	18	3					
15	256QAM	1	37	19.21	19.28	19.01	19.05							
15	256QAM	1	74	19.21	19.22	19.13	19.04							
15	256QAM	86	0	19.16	19.41	19.17	19.08							
15	256QAM	86	20	19.16	19.33	19.14	19.03	18	3					
15	256QAM	86	39	19.25	19.30	19.04	19.09							
15	256QAM	86	50	19.25	19.30	19.04	19.02							
15	256QAM	75	0	19.04	19.40	19.02	19.02							
Channel				56900	56900	56900	56900							
Frequency (MHz)				56900	56900	56900	56900							
10	QPSK	1	0	19.12	19.32	19.15	19.08	21	0					
10	QPSK	1	25	19.16	19.27	19.15	19.05							
10	QPSK	1	49	19.14	19.18	19.11	19.06							
10	QPSK	25	0	19.19	19.21	19.13	19.08							
10	QPSK	25	12	19.14	19.14	19.02	19.00	21	0					
10	QPSK	25	25	19.09	19.14	19.04	19.05							
10	16QAM	1	0	19.14	19.18	19.07	19.00							
10	16QAM	1	0	19.26	19.28	19.31	19.11	21	0					
10	16QAM	1	25	19.23	19.24	19.21	19.14							
10	16QAM	1	49	19.26	19.24	19.20	19.20							
10	16QAM	25	0	19.13	19.22	19.16	19.17							
10	16QAM	25	12	19.12	19.19	19.10	19.08	21	0					
10	16QAM	25	25	19.04	19.16	19.05	19.05							
10	16QAM	50	0	19.11	19.26	19.16	19.04							
10	64QAM	1	0	19.14	19.20	19.09	19.23	21	0					
10	64QAM	1	25	19.11	19.12	19.08	19.04							
10	64QAM	1	49	19.08	19.03	19.05	19.06							
10	64QAM	25	0	19.12	19.25	19.20	19.13							
10	64QAM	25	12	19.18	19.27	19.12	19.06	20	1					
10	64QAM	25	25	19.18	19.14	19.05	19.05							
10	64QAM	50	0	19.25	19.22	19.00	19.06							
10	256QAM	1	0	19.24	19.31	19.17	19.02							
10	256QAM	1	25	19.16	19.23	19.04	19.05	18	3					
10	256QAM	1	49	19.22	19.30	19.13	19.07							
10	256QAM	25	0	19.20	19.37	19.12	19.02							
10	256QAM	25	12	19.17	19.19	19.14	19.08							
10	256QAM	25	25	19.17	19.25	19.12	19.05	18	3					
10	256QAM	50	0	19.03	19.18	19.05	19.03							
Channel				56900	56900	56900	56900							
Frequency (MHz)				56900	56900	56900	56900							
5	QPSK	1	0	19.12	19.35	19.17	19.03	21	0					
5	QPSK	1	12	19.16	19.30	19.15	19.03							
5	QPSK	1	24	19.11	19.23	19.09	19.03							
5	QPSK	12	0	19.17	19.21	19.19	19.03							
5	QPSK	12	7	19.09	19.14	19.05	19.01	21	0					
5	QPSK	12	19	19.13	19.17	19.01	19.06							
5	QPSK	25	0	19.16	19.16	19.03	19.08							
5	QPSK	25	0	19.16	19.15	19.03	19.08							
5	QPSK	1	0	19.27	19.24	19.24	19.17	21	0					
5	QPSK	1	12	19.18	19.19	19.15	19.14							
5	16QAM	1	24	19.21	19.26	19.20	19.23							
5	16QAM	12	0	19.14	19.21	19.11	19.19							
5	16QAM	12	7	19.16	19.15	19.09	19.06	21	0					
5	16QAM	12	13	19.04	19.11	19.12	19.03							
5	16QAM	1	0	19.11	19.21	19.13	19.24							
5	16QAM	1	12	19.04	19.04	19.00	19.06							
5	16QAM	1	24	19.04	19.04	19.00	19.06	21	0					
5	16QAM	12	13	19.18	19.25	19.18	19.05							
5	64QAM	12	0	19.19	19.24	19.25	19.12							
5	64QAM	25	0	19.23	19.19	19.05	19.07							
5	256QAM	1	0	19.23	19.30	19.15	19.02	18	3					
5	256QAM	1	12	19.17	19.29	19.09	19.05							
5	256QAM	1	24	19.24	19.21	19.12	19.02							
5	256QAM	12	0	19.21	19.32	19.12	19.02							
5	256QAM	12	7	19.17	19.32	19.13	19.05	18	3					
5	256QAM	12	13	19.16	19.29	19.10	19.04							
5	256QAM	12	19	19.17	19.17	19.02	19.03							
5	256QAM	25	0	19.23	19.29	19.15	19.02							

GSM 1900 A and DBS Simultaneous									
GSM1900	Base Average Power (dBm)			Transmit	Trans-Average Power (dBm)			Transmit	
	1800.2	1800	1800.8		1800.2	1800	1800.8		
Frequency (MHz)	1800.2	1800	1800.8	dBm	1800.2	1800	1800.8	dBm	
Down Tx Max	30.06	30.06	29.91	-31.40	21.06	21.06	20.91	-22.40	
GPMS 1 Tx max	19.70	20.11	19.93	-31.40	21.70	21.11	20.93	-22.40	
GPMS 2 Tx max	27.78	27.94	27.96	-28.40	21.78	21.94	21.96	-22.40	
GPMS 3 Tx max	25.12	25.31	25.16	-26.70	20.86	21.06	20.90	-22.44	
GPMS 4 Tx max	24.07	24.03	24.01	-25.30	21.07	21.03	21.01	-22.20	
EDGE 1 Tx max	23.74	23.73	23.67	-27.20	18.74	18.73	18.67	-18.20	
EDGE 2 Tx max	23.94	23.08	23.03	-25.20	17.94	17.98	17.93	-18.20	
EDGE 3 Tx max	22.40	22.85	22.79	-23.70	18.44	18.89	18.53	-18.44	
EDGE 4 Tx max	24.07	20.91	20.80	-21.70	17.87	17.81	17.60	-18.70	
WCDMA II A and DBS Simultaneous									
Band	WCDMA II			Transmit	WCDMA IV			Transmit	
	1800.2	1800	1800.8		1712.4	1712	1712.8		
Frequency (MHz)	1800.2	1800	1800.8	dBm	1712.4	1712	1712.8	dBm	
SCPP Rel 99	19.57	19.54	19.58	-21.20	21.72	20.58	19.91	-21.50	
SCPP Rel 99	19.56	19.57	19.50	-21.20	20.09	20.53	20.04	-21.50	
SCPP Rel 6	18.40	18.21	18.52	-20.20	18.84	18.83	18.70	-20.50	
SCPP Rel 6	18.48	18.64	18.52	-20.40	18.83	18.84	18.85	-20.80	
SCPP Rel 6	18.02	18.16	18.04	-19.70	18.89	18.90	18.46	-20.00	
SCPP Rel 6	17.97	18.32	18.05	-19.70	18.44	18.57	18.55	-20.00	
SCPP Rel 6	18.49	18.51	18.37	-20.20	18.89	18.84	18.92	-20.50	
SCPP Rel 6	18.47	18.83	18.42	-20.20	18.87	18.94	18.93	-20.50	
SCPP Rel 6	18.14	18.20	18.10	-19.70	18.57	18.84	18.60	-20.00	
SCPP Rel 6	17.83	18.39	18.06	-19.70	18.34	18.72	18.57	-20.00	
SCPP Rel 6	18.47	18.44	18.43	-20.20	18.85	18.94	18.88	-20.50	
SCPP Rel 6	18.47	18.60	18.55	-19.20	17.00	17.72	17.05	-18.50	
SCPP Rel 6	17.40	17.88	17.82	-19.20	17.96	18.23	18.07	-18.50	
SCPP Rel 6	18.58	18.49	18.57	-18.20	18.98	17.19	17.10	-18.50	
SCPP Rel 6	18.42	18.27	18.51	-20.20	18.91	18.88	18.84	-20.50	

Band 2 Ant3 DS15 Simultaneous												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (sec)	MPR (dB)				
Channel												
1860 1860 1900												
20	QPSK	1	0	18.16	19.31	19.20	20.6	0				
20	QPSK	1	49	19.07	19.15	19.03						
20	QPSK	1	99	18.16	19.09	19.04						
20	QPSK	50	0	19.21	19.24	19.03						
20	QPSK	50	24	19.08	19.12	19.08	20.6	0				
20	QPSK	50	50	18.93	19.17	19.09						
20	QPSK	100	0	19.09	19.15	19.12						
20	16QAM	1	0	19.16	19.14	19.09						
20	16QAM	1	49	19.08	19.09	19.81	20.6	0				
20	16QAM	1	99	18.11	18.86	19.01						
20	16QAM	50	0	19.01	19.22	19.07						
20	16QAM	50	24	18.99	19.18	19.06						
20	16QAM	50	50	18.72	19.10	19.07	20.6	0				
20	16QAM	100	0	19.02	19.09	19.07						
20	64QAM	1	0	19.05	19.12	19.91						
20	64QAM	1	49	19.08	19.13	19.86	20.6	0				
20	64QAM	50	0	19.06	19.14	19.85						
20	64QAM	50	0	19.08	19.11	19.97						
20	64QAM	50	24	19.01	19.09	19.94						
20	256QAM	1	0	19.08	19.29	19.12	20.5	0.1				
20	256QAM	1	49	19.07	19.28	19.11						
20	256QAM	1	99	18.12	19.09	19.07						
20	256QAM	50	0	19.13	19.21	19.07						
20	256QAM	50	24	19.03	19.11	19.89	20.5	0.1				
20	256QAM	50	50	18.97	19.92	19.85						
20	256QAM	100	0	19.06	19.16	19.95						
18615 18615 19025												
18615 18615 19025												
16	QPSK	1	0	18.11	19.27	19.17	20.6	0				
16	QPSK	1	37	18.95	19.81	19.83						
16	QPSK	1	74	19.06	19.07	19.94						
16	QPSK	36	0	19.10	19.14	19.88						
16	QPSK	36	39	18.84	19.13	19.93	20.6	0				
16	QPSK	75	0	19.04	19.10	19.12						
16	16QAM	1	0	19.05	19.94	19.84						
16	16QAM	1	37	18.96	19.81	19.74						
16	16QAM	1	74	19.08	19.09	19.97	20.6	0				
16	16QAM	36	0	19.93	19.12	19.79						
16	16QAM	36	20	19.91	19.19	19.94						
16	16QAM	36	39	18.70	19.98	19.94						
16	16QAM	75	0	19.02	19.98	19.97	20.6	0				
16	64QAM	1	0	19.03	19.99	19.88						
16	64QAM	1	37	19.06	19.99	19.87						
16	64QAM	36	0	19.04	19.95	19.90						
16	64QAM	36	20	18.97	19.98	19.84	20.6	0				
16	64QAM	36	20	18.97	19.98	19.84						
16	64QAM	75	0	19.92	19.93	19.84						
16	256QAM	1	0	19.03	19.97	19.87						
16	256QAM	1	37	18.96	19.84	19.86	20.5	0.1				
16	256QAM	1	74	19.96	19.92	19.87						
16	256QAM	36	20	19.98	19.93	19.84						
16	256QAM	36	39	18.74	18.86	18.77						
Channel				18615	18615	19025						
18615 18615 19025												
18615 18615 19025												
10	QPSK	1	0	18.03	19.29	19.19	20.6	0				
10	QPSK	1	25	19.02	19.92	19.85						
10	QPSK	1	49	19.07	19.95	19.86						
10	QPSK	12	0	19.09	19.71	19.87						
10	QPSK	25	12	18.94	19.08	19.95	20.6	0				
10	QPSK	25	25	18.90	19.14	19.96						
10	QPSK	50	0	19.07	19.07	19.97						
10	16QAM	1	0	19.10	19.95	19.87						
10	16QAM	1	25	18.98	19.93	19.77	20.6	0				
10	16QAM	1	49	19.06	19.98	19.87						
10	16QAM	25	0	19.07	19.12	19.87						
10	16QAM	25	12	18.97	19.13	19.91						
10	16QAM	36	20	19.43	19.08	19.93	20.6	0				
10	16QAM	50	0	19.10	19.96	19.93						
10	64QAM	1	0	19.96	19.92	19.87						
10	64QAM	1	24	19.03	19.95	19.84						
10	64QAM	1	49	19.05	19.89	19.84	20.6	0				
10	64QAM	25	0	19.96	19.95	19.86						
10	64QAM	25	12	19.09	19.94	19.82						
10	64QAM	25	25	19.09	19.94	19.82						
10	64QAM	50	0	19.83	19.97	19.88	20.5	0.1				
10	256QAM	1	0	19.88	19.92	19.89						
10	256QAM	1	25	18.89	19.82	19.81						
10	256QAM	1	49	19.89	19.86	19.79						
10	256QAM	25	12	18.89	19.93	19.83	20.5	0.1				
10	256QAM	25	25	18.86	19.71	19.84						
10	256QAM	50	0	19.78	19.86	19.78						
18625 18625 19075												
18625 18625 19075												
5	QPSK	1	0	18.14	19.26	19.16			20.6	0		
5	QPSK	1	12	19.02	19.95	19.80						
5	QPSK	1	24	19.10	19.91	19.99						
5	QPSK	12	0	19.17	19.18	19.99						
5	QPSK	12	7	19.05	19.90	19.90	20.6	0				
5	QPSK	12	13	19.90	19.94	19.95						
5	QPSK	25	0	19.09	19.92	19.99						
5	16QAM	1	0	19.06	19.93	19.97						
5	16QAM	1	12	19.98	19.92	19.88	20.6	0				
5	16QAM	1	24	19.03	19.95	19.94						
5	16QAM	12	0	19.87	19.10	19.85						
5	16QAM	12	7	19.89	19.96	19.84						
5	16QAM	12	13	19.83	19.91	19.87	20.6	0				
5	16QAM	25	0	19.88	19.98	19.94						
5	64QAM	1	0	19.86	19.91	19.88						
5	64QAM	1	12	19.01	19.93	19.81						
5	64QAM	1	24	19.05	19.89	19.84	20.6	0				
5	64QAM	12	0	19.03	19.90	19.94						
5	64QAM	12	7	19.89	19.90	19.89						
5	64QAM	12	13	19.88	19.92	19.85						
5	64QAM	25	0	19.85	19.95	19.93	20.5	0.1				
5	256QAM	1	0	19.82	19.92	19.92						
5	256QAM	1	12	18.86	19.84	19.80						
5	256QAM	1	24	19.89	19.86	19.79						
5	256QAM	12	0	19.01	19.13	19.91	20.5	0.1				
5	256QAM	12	7	19.88	19.92	19.86						
5	256QAM	12	13	19.82	19.94	19.87						
5	256QAM	25	0	19.88	19.98	19.91						
Channel				18625	18625	19075						
18625 18625 19075												
18625 18625 19075												
3	QPSK	1	0	18.14	19.26	19.16	20.6	0				
3	QPSK	1	8	19.00	19.94	19.81						
3	QPSK	1	24	19.10	19.91	19.99						
3	QPSK	12	0	19.17	19.18	19.99						
3	QPSK	8	8	19.04	19.92	19.88	20.6	0				
3	QPSK	8	16	19.90	19.94	19.94						
3	QPSK	16	0	19.03	19.10	19.90						
3	QPSK	16	8	19.95	19.99	19.92						
3	16QAM	1	0	19.06	19.99	19.96	20.6	0				
3	16QAM	1	8	19.98	19.92	19.88						
3	16QAM	1	24	19.09	19.91	19.99						
3	16QAM	8	8	19.91	19.94	19.94						
3	16QAM	8	16	19.02	19.92	19.78	20.6	0				
3	16QAM	8	24	19.96	19.90	19.88						
3	16QAM	16	0	19.02	19.93	19.93						
3	16QAM	16	8	19.92	19.92	19.87						
3	256QAM	1	0	19.02	19.97	19.82	20.5	0.1				
3	256QAM	1	8	19.97	19.98	19.88						
3	256QAM	1	24	19.08	19.98	19.94						
3	256QAM	8	8	19.91	19.99	19.94						
3	256QAM	8	16	18.86	19.96	19.94	20.5	0.1				
3	256QAM	8	24	19.91	19.99	19.90						
3	256QAM	16	0	19.81	19.81	19.83						
3	256QAM	15	0	18.71	18.91	18.93						
18671 1880 1909.3												
18671 1880 1909.3												
1.4	QPSK	1	0	19.10	19.27	19.13	20.6	0				
1.4	QPSK	1	8	19.00	19.94	19.81						
1.4	QPSK	1	24	19.10	19.91	19.99						
1.4	QPSK	1	40	19.17	19.18	19.99						
1.4	QPSK	1	0	19.08	19.96	19.85	20.6	0				
1.4	QPSK	8	8	19.94	19.92	19.88						
1.4	QPSK	8	16	19.03	19.11	19.90						
1.4	QPSK	16	0	19.04	19.92	19.88						
1.4	QPSK	16	8	19.90	19.94	19.94	20.6	0				
1.4	QPSK	16	16	19.03	19.10	19.90						
1.4	QPSK	32	0	19.06	19.99	19.96						
1.4	QPSK	32	8	19.95	19.92	19.92						
1.4	16QAM	1	0	19.06	19.93	19.93	20.6	0				
1.4	16QAM	1	8	19.92	19.98	19.88						
1.4	16QAM	1	24	19.09	19.99	19.99						
1.4	16QAM	8	8	19.91	19.94	19.94						
1.4	16QAM	8	16	19.05	19.91	19.92	20.6	0				
1.4	16QAM	8	24	19.93	19.97	19.97						
1.4	16QAM	16	0	19.05	19.94	19.97						
1.4	16QAM	16	8	19.92	19.92	19.78						
1.4	16QAM	16	16	19.96	19.90	19.88	20.6	0				
1.4	16QAM	32	0	19.08	19.93	19.93						
1.4	16QAM	32	8	19.97	19.97	19.97						
1.4	16QAM	32	16	19.01	19.93	19.73						
1.4	16QAM	32	24	19.92	19.95	19.87	20.6	0				
1.4	16QAM	64	0	19.03	19.85	19.87						
1.4	16QAM	64	8	19.92	19.98	19.98						
1.4	16QAM	64	16	19.99	19.99							

Band 25 Ant3 DSI5 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-up Int. (s)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.26	19.32	19.23	20.6	0		
20	QPSK	1	49	19.17	19.23	19.23				
20	QPSK	1	99	19.26	19.13	19.10	20.6	0		
20	QPSK	50	0	19.23	19.25	19.10				
20	QPSK	50	24	19.15	19.25	19.08	20.6	0		
20	QPSK	50	50	19.08	19.27	19.14				
20	QPSK	100	0	19.20	19.23	19.20	20.6	0		
20	16QAM	1	0	19.22	19.23	19.14				
20	16QAM	1	49	19.13	19.24	19.01	20.6	0		
20	16QAM	1	99	19.18	19.07	19.02				
20	16QAM	50	0	19.12	19.27	19.05	20.6	0		
20	16QAM	50	24	19.04	19.13	19.03				
20	16QAM	50	50	19.05	19.24	19.01	20.6	0		
20	16QAM	100	0	19.08	19.17	19.11				
20	64QAM	1	0	19.15	19.21	19.11	20.6	0		
20	64QAM	1	49	19.13	19.24	19.01				
20	64QAM	25	0	19.03	19.15	19.09	20.6	0		
20	64QAM	50	0	19.14	19.15	19.09				
20	64QAM	50	24	19.04	19.13	19.03	20.6	0		
20	64QAM	50	50	19.05	19.24	19.01				
20	64QAM	100	0	19.08	19.17	19.11	20.5	0.1		
20	256QAM	1	49	19.05	19.07	19.06				
20	256QAM	1	49	19.05	18.99	19.02	20.5	0.1		
20	256QAM	1	99	19.07	18.99	19.05				
20	256QAM	50	0	19.05	19.02	19.03	20.5	0.1		
20	256QAM	50	24	19.00	19.13	19.03				
20	256QAM	50	50	19.04	19.12	19.03	20.5	0.1		
20	256QAM	100	0	19.12	19.07	19.07				
20	256QAM	100	0	19.12	19.07	19.07				
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.20	19.20	19.15	20.6	0		
15	QPSK	1	24	19.12	19.22	19.05				
15	QPSK	1	74	19.21	19.09	19.04	20.6	0		
15	QPSK	36	0	19.19	19.20	19.07				
15	QPSK	36	36	19.14	19.20	19.08	20.6	0		
15	QPSK	36	36	19.07	19.17	19.05				
15	16QAM	1	0	19.11	19.16	19.11	20.6	0		
15	16QAM	1	37	19.05	19.16	19.01				
15	16QAM	1	74	19.11	19.01	19.05	20.6	0		
15	16QAM	36	0	19.10	19.16	19.02				
15	16QAM	36	20	19.00	19.12	19.02	20.6	0		
15	16QAM	36	36	19.04	19.07	19.00				
15	16QAM	75	0	19.03	19.00	19.08	20.6	0		
15	64QAM	1	0	19.11	19.09	19.07				
15	64QAM	1	49	19.06	19.12	19.02	20.6	0		
15	64QAM	1	74	19.11	19.08	19.03				
15	64QAM	36	0	19.01	19.04	19.06	20.6	0		
15	64QAM	36	26	19.06	19.04	19.02				
15	64QAM	36	36	19.01	19.15	19.08	20.6	0		
15	64QAM	75	0	19.09	19.04	19.08				
15	256QAM	1	0	19.01	19.12	19.05	20.5	0.1		
15	256QAM	1	37	19.07	19.02	19.02				
15	256QAM	1	74	19.07	19.04	19.06	20.5	0.1		
15	256QAM	36	0	19.00	19.04	19.01				
15	256QAM	36	20	19.07	19.09	19.08	20.5	0.1		
15	256QAM	36	36	19.05	19.01	19.09				
15	256QAM	75	0	19.00	19.07	19.00	20.5	0.1		
15	256QAM	75	0	19.00	19.07	19.00				
15	256QAM	75	0	19.00	19.07	19.00				
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.08	19.22	19.15	20.6	0		
10	QPSK	1	26	19.08	19.24	19.06				
10	QPSK	1	49	19.18	19.08	19.06	20.6	0		
10	QPSK	25	0	19.10	19.13	19.06				
10	QPSK	25	12	19.03	19.11	19.02	20.6	0		
10	QPSK	25	25	19.02	19.15	19.09				
10	16QAM	1	0	19.08	19.16	19.01	20.6	0		
10	16QAM	1	26	19.02	19.17	19.00				
10	16QAM	25	0	19.05	19.17	19.03	20.6	0		
10	16QAM	25	12	19.04	19.09	19.00				
10	16QAM	25	26	19.04	19.07	19.00	20.6	0		
10	16QAM	50	0	19.08	19.02	19.13				
10	64QAM	1	0	19.05	19.14	19.01	20.6	0		
10	64QAM	1	26	19.00	19.13	19.06				
10	64QAM	1	49	19.05	19.06	19.09	20.6	0		
10	64QAM	25	0	19.03	19.04	19.06				
10	64QAM	25	12	19.06	19.02	19.03	20.6	0		
10	64QAM	25	26	19.07	19.20	19.09				
10	64QAM	50	0	19.04	19.08	19.03	20.6	0		
10	256QAM	1	0	19.01	19.12	19.05				
10	256QAM	1	26	19.06	19.00	19.04	20.5	0.1		
10	256QAM	1	49	19.07	19.08	19.09				
10	256QAM	25	0	19.00	19.04	19.01	20.5	0.1		
10	256QAM	25	12	19.05	19.06	19.08				
10	256QAM	25	26	19.05	19.08	19.08	20.5	0.1		
10	256QAM	50	0	19.06	19.01	19.09				
10	256QAM	50	0	19.06	19.01	19.09	20.5	0.1		
10	256QAM	50	0	19.06	19.01	19.09				
10	256QAM	50	0	19.06	19.01	19.09				
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.20	19.20	19.15	20.6	0		
5	QPSK	1	12	19.10	19.23	19.02				
5	QPSK	1	24	19.23	19.09	19.07	20.6	0		
5	QPSK	12	0	19.18	19.12	19.06				
5	QPSK	12	7	19.08	19.12	19.05	20.6	0		
5	QPSK	12	13	19.08	19.23	19.15				
5	16QAM	1	0	19.19	19.13	19.02	20.6	0		
5	16QAM	1	12	19.07	19.18	19.01				
5	16QAM	1	24	19.15	19.01	19.05	20.6	0		
5	16QAM	12	0	19.10	19.24	19.02				
5	16QAM	12	7	19.01	19.13	19.01	20.6	0		
5	16QAM	12	13	19.15	19.07	19.03				
5	16QAM	25	0	19.02	19.03	19.13	20.6	0		
5	64QAM	1	0	19.05	19.15	19.05				
5	64QAM	1	24	19.09	19.19	19.08	20.6	0		
5	64QAM	1	24	19.02	19.09	19.07				
5	64QAM	12	0	19.05	19.03	19.04	20.6	0		
5	64QAM	12	7	19.08	19.07	19.07				
5	64QAM	12	13	19.07	19.21	19.07	20.6	0		
5	64QAM	25	0	19.06	19.13	19.09				
5	256QAM	1	0	19.02	19.17	19.08	20.5	0.1		
5	256QAM	1	12	19.07	19.18	19.08				
5	256QAM	1	24	19.03	19.04	19.04	20.5	0.1		
5	256QAM	12	0	19.07	19.06	19.07				
5	256QAM	12	13	19.08	19.09	19.02	20.5	0.1		
5	256QAM	12	13	19.08	19.09	19.02				
5	256QAM	25	0	19.02	19.06	19.01	20.5	0.1		
5	256QAM	25	0	19.02	19.06	19.01				
5	256QAM	25	0	19.02	19.06	19.01	20.5	0.1		
5	256QAM	25	0	19.02	19.06	19.01				
5	256QAM	25	0	19.02	19.06	19.01				
Channel										
Frequency (MHz)										
3	QPSK	1	0	19.24	19.27	19.19	20.6	0		
3	QPSK	1	14	19.16	19.28	19.16				
3	QPSK	1	14	19.17	19.10	19.10	20.6	0		
3	QPSK	8	0	19.18	19.19	19.01				
3	QPSK	8	8	19.11	19.14	19.02	20.6	0		
3	QPSK	8	7	19.06	19.14	19.02				
3	16QAM	1	0	19.11	19.09	19.11	20.6	0		
3	16QAM	1	14	19.05	19.13	19.09				
3	16QAM	1	14	19.12	19.01	19.06	20.6	0		
3	16QAM	8	0	19.04	19.13	19.09				
3	16QAM	8	4	19.02	19.18	19.05	20.6	0		
3	16QAM	8	7	19.06	19.13	19.03				
3	16QAM	8	7	19.09	19.07	19.03	20.6	0		
3	16QAM	16	0	19.07	19.07	19.00				
3	64QAM	1	0	19.03	19.20	19.06	20.6	0		
3	64QAM	1	14	19.11	19.09	19.09				
3	64QAM	8	0	19.10	19.08	19.02	20.6	0		
3	64QAM	8	4	19.01	19.09	19.05				
3	64QAM	8	7	19.07	19.18	19.01	20.6	0		
3	64QAM	16	0	19.03	19.07	19.03				
3	256QAM	1	0	19.01	19.12	19.05	20.5	0.1		
3	256QAM	1	14	19.07	19.08	19.08				
3	256QAM	1	14	19.07	19.08	19.08	20.5	0.1		
3	256QAM	8	0	19.03	19.05	19.03				
3	256QAM	8	7	19.08	19.06	19.08	20.5	0.1		
3	256QAM	8	7	19.08	19.06	19.08				
3	256QAM	8	7	19.08	19.06	19.08	20.5	0.1		
3	256QAM	8	7	19.08	19.06	19.08				
3	256QAM	8	7	19.08	19.06	19.08				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	19.04	19.28	19.13	20.6	0		
1.4	QPSK	1	3	19.04	19.28	19.13				
1.4	QPSK	1	3	19.04	19.28	19.13	20.6	0		
1.4	QPSK	1	3	19.04	19.28	19.13				
1.4	QPSK	1	3							



Band 38 Ant3 DS15 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up Int. (dBm)	MPE (dB)		
Channel										
Frequency (MHz)				37860	38800	38150				
20	QPSK	1	0	20.71	20.82	20.59	22	0		
20	QPSK	1	49	20.55	20.55	20.40				
20	QPSK	1	99	20.62	20.61	20.39				
20	QPSK	50	0	20.64	20.73	20.44				
20	QPSK	50	24	20.41	20.58	20.29	22	0		
20	QPSK	50	49	20.49	20.74	20.35				
20	QPSK	100	0	20.62	20.83	20.37				
20	16QAM	1	0	20.72	20.74	20.43				
20	16QAM	1	49	20.61	20.47	20.26	22	0		
20	16QAM	1	99	20.57	20.56	20.24				
20	16QAM	50	0	20.54	20.74	20.32				
20	16QAM	50	24	20.40	20.42	20.08				
20	16QAM	50	50	20.44	20.56	20.31	21.2	0.8		
20	16QAM	100	0	20.54	20.57	20.31				
20	16QAM	100	1	20.45	20.25	20.26				
20	16QAM	1	49	20.45	20.39	20.11				
20	16QAM	1	99	20.33	20.31	20.23	21.2	0.8		
20	16QAM	50	0	19.48	19.87	19.38				
20	16QAM	50	24	19.46	19.58	19.43				
20	16QAM	50	50	19.37	19.33	19.15				
20	16QAM	100	0	19.38	19.37	19.20	20.2	1.8		
20	256QAM	1	0	17.50	17.53	17.34				
20	256QAM	1	49	17.39	17.34	17.14				
20	256QAM	1	99	17.34	17.37	17.22				
20	256QAM	50	24	17.44	17.55	17.38	18.2	3.8		
20	256QAM	50	50	17.39	17.33	17.18				
20	256QAM	50	100	17.39	17.33	17.17				
20	256QAM	100	0	17.42	17.43	17.24				
20	256QAM	100	1	17.33	17.34	17.15				
Channel										
Frequency (MHz)				37865	38805	38175	Time-up Int. (dBm)	MPE (dB)		
15	QPSK	1	0	20.73	20.79	20.57	22	0		
15	QPSK	1	37	20.43	20.49	20.30				
15	QPSK	1	74	20.49	20.53	20.31				
15	QPSK	36	0	20.36	20.68	20.38				
15	QPSK	36	20	20.38	20.45	20.23	22	0		
15	QPSK	36	40	20.49	20.54	20.31				
15	QPSK	75	0	20.58	20.55	20.27				
15	16QAM	1	0	20.65	20.63	20.31				
15	16QAM	1	37	20.43	20.44	20.23	22	0		
15	16QAM	1	74	20.43	20.53	20.32				
15	16QAM	36	0	20.41	20.40	20.25				
15	16QAM	36	20	20.37	20.48	20.26				
15	16QAM	36	39	20.38	20.31	20.11	21.2	0.8		
15	16QAM	75	0	20.46	20.43	20.23				
15	16QAM	75	0	19.37	19.58	19.28				
15	16QAM	1	37	20.28	20.29	20.10				
15	16QAM	1	74	20.27	20.28	20.13	21.2	0.8		
15	16QAM	36	0	20.46	20.43	20.23				
15	16QAM	36	39	20.36	20.31	20.11				
15	16QAM	75	0	19.36	19.55	19.28				
15	256QAM	1	0	17.42	17.42	17.23	18.2	3.8		
15	256QAM	1	37	17.43	17.43	17.26				
15	256QAM	1	74	17.20	17.30	17.11				
15	256QAM	36	0	17.40	17.47	17.24				
15	256QAM	36	39	17.29	17.27	17.10	18.2	3.8		
15	256QAM	75	0	17.30	17.34	17.12				
15	256QAM	75	0	17.30	17.34	17.12				
Channel										
Frequency (MHz)				37865	38805	38175	Time-up Int. (dBm)	MPE (dB)		
10	QPSK	1	0	20.73	20.79	20.57	22	0		
10	QPSK	1	25	20.43	20.49	20.30				
10	QPSK	1	49	20.49	20.57	20.27				
10	QPSK	1	20	20.65	20.68	20.36				
10	QPSK	25	12	20.39	20.56	20.25	22	0		
10	QPSK	25	25	20.27	20.66	20.29				
10	QPSK	25	49	20.63	20.64	20.33				
10	QPSK	1	0	20.63	20.65	20.35				
10	16QAM	1	0	20.63	20.65	20.35	22	0		
10	16QAM	1	25	20.49	20.34	20.19				
10	16QAM	1	49	20.41	20.50	20.15				
10	16QAM	25	0	20.51	20.49	20.25				
10	16QAM	25	12	20.33	20.49	20.33	21.2	0.8		
10	16QAM	25	25	20.34	20.39	20.21				
10	16QAM	50	0	20.49	20.50	20.20				
10	16QAM	50	12	20.33	20.32	20.10				
10	16QAM	1	49	20.30	20.29	20.10	21.2	0.8		
10	16QAM	25	0	19.40	19.32	19.15				
10	16QAM	25	12	19.34	19.45	19.38				
10	16QAM	25	25	19.24	19.21	19.07				
10	256QAM	1	0	17.44	17.47	17.22	18.2	3.8		
10	256QAM	1	25	17.37	17.39	17.02				
10	256QAM	1	49	17.21	17.31	17.09				
10	256QAM	25	0	17.41	17.47	17.27				
10	256QAM	25	12	17.30	17.40	17.24	18.2	3.8		
10	256QAM	25	25	17.30	17.40	17.24				
10	256QAM	50	0	17.28	17.28	17.07				
10	256QAM	50	12	17.30	17.27	17.07				
Channel										
Frequency (MHz)				37775	38695	38225	Time-up Int. (dBm)	MPE (dB)		
5	QPSK	1	0	20.73	20.78	20.57	22	0		
5	QPSK	1	12	20.51	20.51	20.35				
5	QPSK	1	24	20.59	20.49	20.29				
5	QPSK	12	0	20.56	20.69	20.39				
5	QPSK	12	7	20.32	20.48	20.24	22	0		
5	QPSK	12	13	20.38	20.65	20.25				
5	QPSK	25	0	20.54	20.61	20.29				
5	16QAM	1	0	20.66	20.61	20.39				
5	16QAM	1	12	20.54	20.43	20.19	22	0		
5	16QAM	1	24	20.43	20.51	20.21				
5	16QAM	12	0	20.43	20.45	20.22				
5	16QAM	12	7	20.33	20.33	20.25				
5	16QAM	12	13	20.37	20.32	20.15	21.2	0.8		
5	16QAM	25	0	20.44	20.43	20.19				
5	16QAM	25	0	20.44	20.51	20.31				
5	16QAM	25	7	20.36	20.27	20.04				
5	16QAM	1	24	20.26	20.28	20.09	21.2	0.8		
5	16QAM	12	0	19.32	19.46	19.35				
5	16QAM	12	7	19.36	19.46	19.38				
5	16QAM	25	0	19.31	19.31	19.15				
5	256QAM	1	0	17.43	17.47	17.26	18.2	3.8		
5	256QAM	1	12	17.29	17.32	17.06				
5	256QAM	1	24	17.20	17.25	17.14				
5	256QAM	12	0	17.29	17.43	17.29				
5	256QAM	12	7	17.36	17.51	17.28	18.2	3.8		
5	256QAM	12	13	17.36	17.31	17.07	18.2	3.8		
5	256QAM	25	0	17.28	17.28	17.04				
5	256QAM	25	7	17.37	17.52	17.24				



Band 48_FCC Ant3 DSIS Simultaneous										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MFR (dB)	
Channel				56540	56630	56150	56650			
Frequency (MHz)				56540	56630	56150	56650			
20	QPSK	1	0	17.40	17.55	17.48	17.52			
20	QPSK	1	49	17.38	17.35	17.39	17.37	19	0	
20	QPSK	1	99	17.21	17.25	17.30	17.23			
20	QPSK	50	0	17.22	17.46	17.40	17.37			
20	QPSK	50	24	17.23	17.37	17.29	17.34	19	0	
20	QPSK	50	50	17.20	17.30	17.24	17.28			
20	QPSK	100	0	17.20	17.34	17.28	17.32			
20	16QAM	1	0	17.31	17.40	17.39	17.40	19	0	
20	16QAM	1	49	17.28	17.38	17.21	17.45			
20	16QAM	1	99	17.35	17.35	17.34	17.41			
20	16QAM	50	0	17.25	17.42	17.28	17.44			
20	16QAM	50	24	17.20	17.24	17.24	17.27	19	0	
20	16QAM	50	50	17.26	17.22	17.24	17.29			
20	64QAM	100	0	17.25	17.27	17.26	17.28			
20	64QAM	1	0	17.25	17.41	17.37	17.41			
20	64QAM	1	49	17.25	17.38	17.22	17.39	19	0	
20	64QAM	1	99	17.35	17.35	17.20	17.42			
20	64QAM	50	0	17.20	17.35	17.30	17.25			
20	64QAM	50	24	17.20	17.31	17.20	17.28	19	0	
20	64QAM	50	50	17.43	17.18	17.18	17.28			
20	64QAM	100	0	17.22	17.24	17.11	17.26			
20	256QAM	1	0	17.25	17.31	17.25	17.34			
20	256QAM	1	49	17.20	17.31	17.17	17.27	19	0	
20	256QAM	1	99	17.33	17.17	17.31	17.25			
20	256QAM	50	0	17.22	17.26	17.31	17.21			
20	256QAM	50	24	17.25	17.27	17.28	17.19	19	0	
20	256QAM	50	50	17.35	17.22	17.15	17.30			
20	256QAM	100	0	17.15	17.27	17.14	17.23			
Channel				56515	56620	56165	56645	Turn-up time (dBm)	MFR (dB)	
Frequency (MHz)				56515	56620	56165	56645			
15	QPSK	1	0	17.30	17.54	17.45	17.41			
15	QPSK	1	37	17.30	17.23	17.25	17.32	19	0	
15	QPSK	1	74	17.18	17.32	17.26	17.16			
15	QPSK	86	0	17.18	17.39	17.38	17.28			
15	QPSK	86	20	17.19	17.24	17.21	17.31	19	0	
15	QPSK	75	0	17.27	17.33	17.29	17.24			
15	QPSK	75	0	17.17	17.20	17.24	17.26			
15	16QAM	1	0	17.19	17.29	17.27	17.28			
15	16QAM	1	37	17.18	17.31	17.17	17.27	19	0	
15	16QAM	1	74	17.33	17.24	17.09	17.39			
15	16QAM	86	0	17.28	17.29	17.17	17.41			
15	16QAM	86	20	17.15	17.13	17.18	17.24	19	0	
15	16QAM	86	39	17.14	17.18	17.15	17.24			
15	16QAM	75	0	17.18	17.14	17.25	17.23			
15	64QAM	1	0	17.17	17.38	17.24	17.29			
15	64QAM	1	37	17.11	17.25	17.13	17.29	19	0	
15	64QAM	1	74	17.27	17.38	17.20	17.34			
15	64QAM	86	0	17.21	17.30	17.24	17.24			
15	64QAM	86	20	17.06	17.17	17.16	17.19	19	0	
15	64QAM	86	39	17.24	17.05	17.12	17.15			
15	64QAM	75	0	17.11	17.12	17.05	17.15			
15	256QAM	1	0	17.19	17.23	17.18	17.14	19	0	
15	256QAM	1	37	17.22	17.21	17.04	17.24			
15	256QAM	1	74	17.22	17.09	17.20	17.17			
15	256QAM	86	0	17.16	17.21	17.18	17.25			
15	256QAM	86	20	17.21	17.27	17.16	17.12	19	0	
15	256QAM	86	39	17.30	17.09	17.04	17.24			
15	256QAM	75	0	17.08	17.24	17.02	17.10			
Channel				56520	56115	56115	56615	Turn-up time (dBm)	MFR (dB)	
Frequency (MHz)				56520	56075	56025	56075			
10	QPSK	1	0	17.30	17.51	17.35	17.42			
10	QPSK	1	25	17.30	17.25	17.25	17.30	19	0	
10	QPSK	1	49	17.23	17.24	17.30	17.10			
10	QPSK	15	0	17.10	17.43	17.27	17.23	19	0	
10	QPSK	25	12	17.10	17.31	17.21	17.23			
10	QPSK	25	25	17.18	17.34	17.20	17.19			
10	16QAM	1	0	17.25	17.31	17.21	17.29			
10	16QAM	1	0	17.24	17.36	17.28	17.36	19	0	
10	16QAM	1	25	17.24	17.28	17.17	17.33			
10	16QAM	1	49	17.27	17.28	17.10	17.34			
10	16QAM	25	0	17.27	17.36	17.25	17.38			
10	16QAM	25	12	17.15	17.19	17.20	17.28	19	0	
10	16QAM	25	25	17.15	17.09	17.15	17.19			
10	16QAM	50	0	17.14	17.23	17.14	17.26			
10	64QAM	1	0	17.10	17.31	17.30	17.29			
10	64QAM	1	25	17.21	17.20	17.14	17.25	19	0	
10	64QAM	1	49	17.29	17.27	17.14	17.38			
10	64QAM	25	0	17.10	17.26	17.27	17.15			
10	64QAM	25	12	17.13	17.27	17.11	17.22	19	0	
10	64QAM	25	25	17.35	17.11	17.14	17.27			
10	64QAM	50	0	17.10	17.17	17.00	17.17			
10	256QAM	1	0	17.22	17.28	17.22	17.16			
10	256QAM	1	25	17.19	17.27	17.12	17.30	19	0	
10	256QAM	1	49	17.25	17.24	17.18	17.21			
10	256QAM	25	0	17.17	17.18	17.25	17.22			
10	256QAM	25	12	17.20	17.25	17.14	17.13	19	0	
10	256QAM	25	25	17.22	17.12	17.10	17.20			
10	256QAM	50	0	17.08	17.23	17.03	17.12			
Channel				56525	56070	56070	56070	Turn-up time (dBm)	MFR (dB)	
Frequency (MHz)				56525	56070	56015	56070			
5	QPSK	1	0	17.31	17.48	17.41	17.46			
5	QPSK	1	12	17.27	17.22	17.27	17.33	19	0	
5	QPSK	1	24	17.17	17.25	17.33	17.11			
5	QPSK	12	0	17.09	17.38	17.38	17.26			
5	QPSK	12	7	17.13	17.20	17.27	17.21	19	0	
5	QPSK	12	13	17.15	17.32	17.18	17.19			
5	QPSK	25	0	17.24	17.25	17.23	17.28			
5	16QAM	1	0	17.20	17.34	17.34	17.36			
5	16QAM	1	12	17.19	17.28	17.08	17.43	19	0	
5	16QAM	1	24	17.28	17.25	17.06	17.34			
5	16QAM	12	0	17.25	17.34	17.15	17.34			
5	16QAM	12	7	17.14	17.16	17.19	17.24	19	0	
5	16QAM	12	13	17.21	17.13	17.17	17.23			
5	16QAM	25	0	17.15	17.19	17.18	17.36			
5	64QAM	1	0	17.18	17.28	17.31	17.20	19	0	
5	64QAM	1	12	17.17	17.32	17.11	17.39			
5	64QAM	1	24	17.32	17.34	17.20	17.39			
5	64QAM	12	0	17.19	17.25	17.19	17.28			
5	64QAM	12	7	17.09	17.26	17.12	17.21	19	0	
5	64QAM	12	13	17.30	17.09	17.15	17.34			
5	64QAM	25	0	17.44	17.11	17.00	17.18			
5	256QAM	1	0	17.20	17.27	17.23	17.14			
5	256QAM	1	12	17.25	17.19	17.09	17.27	19	0	
5	256QAM	1	24	17.20	17.08	17.22	17.22			
5	256QAM	12	0	17.15	17.25	17.21	17.21			
5	256QAM	12	7	17.12	17.28	17.23	17.08	19	0	
5	256QAM	12	13	17.30	17.14	17.03	17.22			
5	256QAM	25	0	17.02	17.16	17.11	17.13			

Band 48_FCC Ant5 DSI5 Simultaneous												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPP (dB)			
Channel				56540	56630	56760	56850					
Frequency (MHz)				56540	56630	56760	56850					
20	QPSK	1	0	19.11	19.20	19.12	18.97	20.5	0			
20	QPSK	1	49	18.93	19.05	19.05	18.90					
20	QPSK	1	99	18.97	19.14	19.06	18.95					
20	QPSK	50	0	19.07	19.16	19.08	18.87					
20	QPSK	50	24	18.97	19.07	19.04	18.87	20.5	0			
20	QPSK	50	50	19.02	19.02	19.02	18.87					
20	QPSK	100	0	19.06	19.07	19.04	18.85					
20	16QAM	1	0	19.08	19.10	19.02	18.91	20.5	0			
20	16QAM	1	49	18.92	19.03	19.09	18.92					
20	16QAM	1	99	18.92	19.05	18.87	18.90					
20	16QAM	50	0	19.01	19.06	19.01	18.86					
20	16QAM	50	24	18.91	19.07	19.06	18.84	20.5	0			
20	16QAM	50	50	18.84	18.90	18.92	18.79					
20	64QAM	100	0	19.02	19.06	19.06	18.91					
20	64QAM	1	0	19.05	19.11	19.04	18.94	20.5	0			
20	64QAM	1	49	18.85	18.96	18.96	18.76					
20	64QAM	1	99	18.87	19.00	18.93	18.85					
20	64QAM	50	0	19.01	19.11	19.04	18.75					
20	64QAM	50	24	18.89	18.98	18.96	18.76	20.5	0			
20	64QAM	50	50	18.88	18.95	19.00	18.80					
20	64QAM	100	0	18.95	18.95	18.90	18.83					
20	256QAM	1	0	19.02	19.13	19.05	18.87	20.5	0			
20	256QAM	1	49	18.85	18.98	19.02	18.80					
20	256QAM	1	99	18.85	19.04	18.91	18.83					
20	256QAM	50	0	19.02	19.08	19.04	18.79					
20	256QAM	50	24	18.83	19.03	19.00	18.75	20.5	0			
20	256QAM	50	50	18.93	18.98	18.93	18.81					
20	256QAM	100	0	19.01	19.04	18.95	18.81					
Channel				56715	56820	56760	56865					
Frequency (MHz)				56715	56820	56760	56865					
15	QPSK	1	0	19.08	19.14	19.09	18.93	20.5	0			
15	QPSK	1	37	18.87	18.97	18.89	18.78					
15	QPSK	1	74	18.88	19.12	18.92	18.82					
15	QPSK	50	0	19.05	19.03	19.02	18.79					
15	QPSK	50	20	18.89	18.96	19.05	18.76	20.5	0			
15	QPSK	50	50	18.99	18.95	18.99	18.84					
15	QPSK	75	0	18.99	18.96	19.01	18.73					
15	16QAM	1	0	18.88	19.05	18.94	18.77	20.5	0			
15	16QAM	1	37	18.70	18.98	18.96	18.77					
15	16QAM	1	74	18.70	19.02	18.78	18.60					
15	16QAM	50	0	18.98	18.94	18.93	18.67					
15	16QAM	50	20	18.70	19.05	18.87	18.73	20.5	0			
15	16QAM	50	50	18.85	18.81	18.79	18.67					
15	16QAM	75	0	18.93	18.82	18.89	18.68					
15	64QAM	1	0	18.87	19.08	18.95	18.72	20.5	0			
15	64QAM	1	37	18.81	18.85	18.92	18.64					
15	64QAM	1	74	18.77	18.88	18.91	18.79					
15	64QAM	50	0	18.91	19.05	18.84	18.63					
15	64QAM	50	20	18.71	18.89	18.87	18.70	20.5	0			
15	64QAM	50	50	18.81	18.82	18.82	18.61					
15	64QAM	75	0	18.87	18.85	18.82	18.72					
15	256QAM	1	0	18.88	19.02	18.97	18.81	20.5	0			
15	256QAM	1	37	18.81	18.93	18.91	18.75					
15	256QAM	1	74	18.82	18.91	18.90	18.70					
15	256QAM	50	0	18.90	19.05	18.91	18.63					
15	256QAM	50	20	18.70	18.98	18.99	18.63	20.5	0			
15	256QAM	50	50	18.87	18.85	18.82	18.79					
15	256QAM	75	0	18.80	18.99	18.89	18.67					
Channel				56730	56715	56760	56745					
Frequency (MHz)				56730	56715	56760	56745					
10	QPSK	1	0	19.00	19.14	19.03	18.88	20.5	0			
10	QPSK	1	25	18.81	19.01	18.97	18.84					
10	QPSK	1	49	18.93	19.01	18.90	18.85					
10	QPSK	25	0	19.03	19.09	19.06	18.84					
10	QPSK	25	12	18.89	19.03	19.02	18.82	20.5	0			
10	QPSK	25	25	18.94	18.95	18.97	18.82					
10	QPSK	50	0	19.02	19.01	18.99	18.79					
10	16QAM	1	0	18.97	19.07	18.93	18.68	20.5	0			
10	16QAM	1	25	18.77	18.89	18.88	18.78					
10	16QAM	1	49	18.87	19.08	18.95	18.81					
10	16QAM	25	0	18.94	18.97	18.89	18.68	20.5	0			
10	16QAM	25	12	18.82	18.85	18.85	18.68					
10	16QAM	25	25	18.85	18.84	18.79	18.68					
10	16QAM	50	0	18.95	18.84	18.84	18.74	20.5	0			
10	64QAM	1	0	18.85	19.08	18.96	18.78					
10	64QAM	1	25	18.73	18.83	18.94	18.73					
10	64QAM	1	49	18.74	18.88	18.80	18.60	20.5	0			
10	64QAM	25	0	18.81	19.08	18.84	18.67					
10	64QAM	25	12	18.78	18.83	18.84	18.73					
10	64QAM	25	25	18.86	18.93	18.85	18.75	20.5	0			
10	64QAM	50	0	18.89	18.84	18.78	18.72					
10	256QAM	1	0	18.89	19.03	19.00	18.80					
10	256QAM	1	25	18.78	18.92	18.98	18.71	20.5	0			
10	256QAM	1	49	18.75	19.07	18.89	18.71					
10	256QAM	25	0	18.84	18.90	18.91	18.65					
10	256QAM	25	12	18.70	18.93	18.90	18.68	20.5	0			
10	256QAM	25	25	18.84	18.90	18.84	18.70					
10	256QAM	50	0	18.91	18.99	18.89	18.68					
Channel				56745	56730	56760	56745					
Frequency (MHz)				56745	56730	56760	56745					
5	QPSK	1	0	19.01	19.06	19.03	18.85	20.5	0			
5	QPSK	1	12	18.82	19.00	19.02	18.84					
5	QPSK	1	24	18.85	19.05	19.00	18.82					
5	QPSK	12	0	19.01	19.02	18.96	18.86					
5	QPSK	12	7	18.92	18.95	18.94	18.75	20.5	0			
5	QPSK	12	19	18.89	18.91	18.89	18.84					
5	QPSK	25	0	18.90	18.97	19.02	18.77					
5	16QAM	1	0	19.03	19.02	18.91	18.86	20.5	0			
5	16QAM	1	12	18.78	18.98	18.93	18.76					
5	16QAM	1	24	18.90	19.00	18.85	18.78					
5	16QAM	12	0	18.94	19.01	19.06	18.68	20.5	0			
5	16QAM	12	7	18.85	18.94	18.85	18.77					
5	16QAM	12	19	18.81	18.78	18.80	18.69					
5	16QAM	25	0	18.90	18.88	18.80	18.71	20.5	0			
5	64QAM	1	0	18.95	19.04	18.93	18.71					
5	64QAM	1	12	18.74	18.88	18.92	18.74					
5	64QAM	1	24	18.80	18.88	18.85	18.82	20.5	0			
5	64QAM	12	0	18.92	19.08	18.88	18.69					
5	64QAM	12	7	18.79	18.89	18.91	18.71					
5	64QAM	12	19	18.93	18.92	18.76	18.67	20.5	0			
5	64QAM	25	0	18.89	18.87	18.86	18.80					
5	256QAM	1	0	18.94	19.07	19.03	18.73					
5	256QAM	1	12	18.78	18.88	18.93	18.71	20.5	0			
5	256QAM	1	24	18.74	19.02	18.78	18.71					
5	256QAM	12	0	18.92	18.98	18.91	18.68					
5	256QAM	12	7	18.77	18.94	18.97	18.64	20.5	0			
5	256QAM	12	19	18.85	18.82	18.86	18.68					
5	256QAM	25	0	18.89	18.91	18.89	18.76					



Reduced Power Mode for Main PA DS13 Simultaneous

GSM 1800 Ant Default									
Base Average Power (dBm)				Tune-up		Flare Average Power (dBm)			
TX Channel	198	199	201	Limit	dBm	198	199	201	Tune-up Limit
Frequency (MHz)	184.2	184.4	184.6	(dBm)		184.2	184.4	184.6	
GSM 1 Tx Ant	33.08	33.03	33.05	33.00	33.00	24.01	24.01	23.95	24.00
OPRS 1 Tx Ant	33.02	33.04	32.98	33.00	24.02	24.04	23.98		24.00
OPRS 2 Tx Ant	23.41	23.63	23.59	23.50	23.61	23.63	23.58		24.00
OPRS 3 Tx Ant	23.20	23.23	23.16	23.00	23.94	23.97	23.90		25.00
OPRS 4 Tx Ant	26.40	26.47	26.43	27.00	23.40	23.47	23.43		24.00
EDGE 1 Tx Ant	25.51	25.54	25.49	26.00	18.51	18.54	18.49		17.00
EDGE 2 Tx Ant	23.80	23.80	23.80	25.00	17.60	17.60	17.60		16.00
EDGE 3 Tx Ant	23.07	23.07	23.01	23.00	18.51	18.61	18.50		18.00
EDGE 4 Tx Ant	20.58	20.61	20.53	21.00	17.58	17.61	17.53		18.00

GSM 1900 Ant Default									
Base Average Power (dBm)				Tune-up		Flare Average Power (dBm)			
TX Channel	810	811	813	Limit	dBm	810	811	813	Tune-up Limit
Frequency (MHz)	1850.2	1850	1850.8	(dBm)		1850.2	1850	1850.8	
GSM 1 Tx Ant	28.83	28.73	28.84	28.40	17.61	17.59	17.64		18.40
OPRS 1 Tx Ant	28.82	28.84	28.40	28.40	17.60	17.64	17.40		18.40
OPRS 2 Tx Ant	24.47	24.51	24.52	25.40	18.47	18.51	18.32		18.40
OPRS 3 Tx Ant	25.51	25.53	25.54	25.70	18.25	18.27	18.28		18.44
OPRS 4 Tx Ant	26.70	26.72	26.50	27.40	17.70	17.72	17.50		18.40
EDGE 1 Tx Ant	25.70	25.75	24.60	26.00	18.10	18.25	18.00		17.00
EDGE 2 Tx Ant	23.80	23.87	23.35	24.00	17.60	17.67	17.35		18.00
EDGE 3 Tx Ant	22.96	22.92	22.52	23.00	16.18	16.18	15.98		16.24
EDGE 4 Tx Ant	20.27	20.33	20.10	21.00	17.27	17.33	17.00		18.00

WCDMA II Ant Default									
Base				Tune-up		WCDMA IV Ant Default			
TX Channel	8852	8850	8838	Limit	dBm	1512	1513	1518	Tune-up Limit
Frequency (MHz)	1920.2	1920	1917.8	(dBm)		1512.4	1512.6	1512.2	
WCDMA II Ant 12 Slots	18.75	18.74	18.75	18.00	17.24	17.24	17.25	17.10	17.44
WCDMA II Ant 12 Slots	18.33	18.48	18.44	18.00	17.74	17.60	17.78	18.10	24.32
WCDMA II Ant 12 Slots	17.20	17.24	17.10	18.00	16.52	16.50	16.67	18.10	23.43
WCDMA II Ant 12 Slots	17.76	17.78	17.33	18.00	16.52	16.71	16.76	18.10	23.21
WCDMA II Ant 12 Slots	18.00	18.00	18.00	18.70	18.50	18.57	18.57	17.00	22.57
WCDMA II Ant 12 Slots	18.85	17.09	18.80	18.10	18.24	18.46	18.37	17.80	22.83
WCDMA II Ant 12 Slots	17.02	17.05	17.23	18.00	16.99	16.98	16.71	18.10	23.02
WCDMA II Ant 12 Slots	17.04	17.00	17.01	18.00	17.04	16.74	16.97	18.10	23.27
WCDMA II Ant 12 Slots	18.09	18.08	17.61	18.10	18.44	18.00	18.56	17.80	22.83
WCDMA II Ant 12 Slots	18.77	18.00	18.00	18.70	18.30	18.09	18.40	17.80	22.83
WCDMA II Ant 12 Slots	17.51	17.33	17.31	18.00	17.00	16.85	16.79	18.10	23.51
WCDMA II Ant 12 Slots	18.30	18.11	18.20	18.00	14.84	14.85	14.80	18.10	21.50
WCDMA II Ant 12 Slots	18.30	18.48	18.20	17.00	15.77	16.04	15.70	17.10	22.25
WCDMA II Ant 12 Slots	15.00	15.07	15.53	16.00	14.63	14.87	15.03	16.10	21.00
WCDMA II Ant 12 Slots	17.44	17.57	17.45	18.00	16.00	17.02	16.80	18.10	24.45

WCDMA V Ant DS13									
Base				Tune-up		WCDMA V Ant DS13			
TX Channel	8852	8850	8838	Limit	dBm	1512	1513	1518	Tune-up Limit
Frequency (MHz)	1920.2	1920	1917.8	(dBm)		1512.4	1512.6	1512.2	
WCDMA V Ant DS13	18.75	18.74	18.75	18.00	17.24	17.24	17.25	17.10	17.44
WCDMA V Ant DS13	18.33	18.48	18.44	18.00	17.74	17.60	17.78	18.10	24.32
WCDMA V Ant DS13	17.20	17.24	17.10	18.00	16.52	16.50	16.67	18.10	23.43
WCDMA V Ant DS13	17.76	17.78	17.33	18.00	16.52	16.71	16.76	18.10	23.21
WCDMA V Ant DS13	18.00	18.00	18.00	18.70	18.50	18.57	18.57	17.00	22.57
WCDMA V Ant DS13	18.85	17.09	18.80	18.10	18.24	18.46	18.37	17.80	22.83
WCDMA V Ant DS13	17.02	17.05	17.23	18.00	16.99	16.98	16.71	18.10	23.02
WCDMA V Ant DS13	17.04	17.00	17.01	18.00	17.04	16.74	16.97	18.10	23.27
WCDMA V Ant DS13	18.09	18.08	17.61	18.10	18.44	18.00	18.56	17.80	22.83
WCDMA V Ant DS13	18.77	18.00	18.00	18.70	18.30	18.09	18.40	17.80	22.83
WCDMA V Ant DS13	17.51	17.33	17.31	18.00	17.00	16.85	16.79	18.10	23.51
WCDMA V Ant DS13	18.30	18.11	18.20	18.00	14.84	14.85	14.80	18.10	21.50
WCDMA V Ant DS13	18.30	18.48	18.20	17.00	15.77	16.04	15.70	17.10	22.25
WCDMA V Ant DS13	15.00	15.07	15.53	16.00	14.63	14.87	15.03	16.10	21.00
WCDMA V Ant DS13	17.44	17.57	17.45	18.00	16.00	17.02	16.80	18.10	24.45



Band 2 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Min [dBm]	Power Max [dBm]	Power Avg [dBm]	Time-up Time [sec]	MPR (dB)	
Channel									
Frequency [MHz]									
20	QPSK	1	0	20.35	20.54	20.50			
20	QPSK	3	4	20.38	20.57	20.53	21.3	0	
20	QPSK	1	99	20.31	20.39	20.41			
20	QPSK	50	0	20.38	20.43	20.26			
20	QPSK	15	24	20.15	20.25	20.20	21.3	0	
20	QPSK	50	50	20.27	20.39	20.15			
20	QPSK	100	0	20.33	20.43	20.27			
20	16QAM	50	0	20.32	20.39	20.36			
20	16QAM	1	49	20.26	20.27	20.24	21.3	0	
20	16QAM	1	99	20.23	20.31	20.26			
20	16QAM	3	9	20.36	20.40	20.32			
20	16QAM	50	24	20.17	20.27	20.13	21.3	0	
20	16QAM	50	50	20.16	20.26	20.16			
20	16QAM	50	0	20.34	20.38	20.15			
20	64QAM	1	0	20.25	20.16	20.97	21.3	0	
20	64QAM	1	49	20.24	20.32	20.27			
20	64QAM	1	99	20.27	20.26	20.31			
20	64QAM	50	0	20.28	20.38	20.16			
20	64QAM	50	24	20.12	20.32	20.13	21.3	0	
20	64QAM	50	50	20.16	20.26	20.16			
20	64QAM	50	0	20.34	20.38	20.15			
20	64QAM	100	0	20.22	20.31	20.23			
20	256QAM	1	0	19.86	19.86	19.84			
20	256QAM	1	49	19.89	19.89	19.84	20	1.3	
20	256QAM	1	99	19.92	19.81	19.73			
20	256QAM	50	0	19.85	19.85	19.76			
20	256QAM	50	24	19.68	19.79	19.66	20	1.3	
20	256QAM	50	50	19.58	19.78	19.73			
20	256QAM	100	0	19.67	19.67	19.67			
Channel									
Frequency [MHz]									
15	QPSK	1	0	19.57	19.60	19.62			
15	QPSK	3	4	20.31	20.42	20.41	21.3	0	
15	QPSK	1	97	20.27	20.36	20.31			
15	QPSK	1	74	20.24	20.30	20.36			
15	QPSK	36	0	20.30	20.34	20.22			
15	QPSK	36	39	20.10	20.16	20.13	21.3	0	
15	QPSK	36	39	20.24	20.30	20.26			
15	QPSK	75	0	20.24	20.40	20.18			
15	16QAM	1	0	20.30	20.36	20.35			
15	16QAM	1	37	20.22	20.17	20.11	21.3	0	
15	16QAM	1	74	20.26	20.32	20.31			
15	16QAM	36	0	20.32	20.31	20.11			
15	16QAM	36	20	20.15	20.17	20.11	21.3	0	
15	16QAM	36	39	20.16	20.20	20.16			
15	16QAM	75	0	20.26	20.31	20.01			
15	64QAM	1	0	20.13	20.51	20.26	21.3	0	
15	64QAM	1	37	20.11	20.29	20.20			
15	64QAM	1	74	20.24	20.14	20.26			
15	64QAM	36	0	20.21	20.20	20.05			
15	64QAM	36	39	20.06	20.17	20.15	21.3	0	
15	64QAM	36	39	20.14	20.19	20.08			
15	256QAM	1	0	19.84	19.84	19.82			
15	256QAM	1	37	19.84	19.79	19.85	20	1.3	
15	256QAM	1	74	19.86	19.71	19.84			
15	256QAM	36	0	19.74	19.86	19.84			
15	256QAM	36	39	19.54	19.56	19.63	20	1.3	
15	256QAM	36	39	19.66	19.76	19.64			
15	256QAM	75	0	19.43	19.71	19.67			
Channel									
Frequency [MHz]									
10	QPSK	1	0	20.30	20.39	20.35			
10	QPSK	1	25	20.34	20.27	20.36	21.3	0	
10	QPSK	1	49	20.20	20.26	20.31			
10	QPSK	25	13	20.06	20.28	20.20			
10	QPSK	25	25	20.17	20.19	20.08	21.3	0	
10	QPSK	25	25	20.20	20.23	20.14			
10	16QAM	1	0	20.30	20.40	20.27			
10	16QAM	1	25	20.14	20.21	20.15	21.3	0	
10	16QAM	1	49	20.26	20.29	20.19			
10	16QAM	25	12	20.08	20.22	20.08			
10	16QAM	25	12	20.02	20.15	20.06	21.3	0	
10	16QAM	50	0	20.25	20.27	20.02			
10	64QAM	1	0	20.21	20.44	20.27			
10	64QAM	1	25	20.17	20.21	20.14	21.3	0	
10	64QAM	1	49	20.23	20.18	20.16			
10	64QAM	25	0	20.25	20.25	20.07			
10	64QAM	25	12	20.04	20.20	20.06	21.3	0	
10	64QAM	25	25	20.14	20.13	20.05			
10	64QAM	50	0	20.13	20.24	20.12			
10	256QAM	1	0	19.87	19.87	19.73			
10	256QAM	1	25	19.81	19.71	19.86	20	1.3	
10	256QAM	1	49	19.88	19.74	19.76			
10	256QAM	25	0	19.68	19.79	19.74			
10	256QAM	25	12	19.50	19.61	19.80	20	1.3	
10	256QAM	25	25	19.53	19.69	19.76			
10	256QAM	50	0	19.41	19.67	19.59			
Channel									
Frequency [MHz]									
5	QPSK	1	0	20.27	20.40	20.33			
5	QPSK	1	12	20.24	20.23	20.35	21.3	0	
5	QPSK	1	24	20.19	20.30	20.33			
5	QPSK	12	0	20.34	20.30	20.16			
5	QPSK	12	7	20.10	20.21	20.14			
5	QPSK	12	13	20.20	20.22	20.04	21.3	0	
5	QPSK	12	13	20.20	20.33	20.16			
5	16QAM	1	0	20.22	20.40	20.32			
5	16QAM	1	12	20.16	20.22	20.21	21.3	0	
5	16QAM	1	24	20.11	20.25	20.25			
5	16QAM	12	0	20.25	20.33	20.12			
5	16QAM	12	7	20.03	20.14	20.06	21.3	0	
5	16QAM	12	13	20.08	20.21	20.16			
5	16QAM	25	0	20.23	20.39	20.10			
5	64QAM	1	0	20.22	20.46	20.28	21.3	0	
5	64QAM	1	12	20.12	20.26	20.19			
5	64QAM	1	24	20.19	20.10	20.21			
5	64QAM	12	0	20.18	20.26	20.16			
5	64QAM	12	7	20.01	20.21	20.14	21.3	0	
5	64QAM	12	13	20.12	20.20	20.16			
5	64QAM	25	0	20.16	20.26	20.04			
5	64QAM	25	0	19.60	19.78	19.76			
5	256QAM	1	0	19.82	19.73	19.68	20	1.3	
5	256QAM	1	24	19.84	19.71	19.84			
5	256QAM	12	0	19.60	19.79	19.73			
5	256QAM	12	7	19.55	19.69	19.69	20	1.3	
5	256QAM	12	13	19.52	19.74	19.66			
5	256QAM	25	0	19.42	19.68	19.63			
Channel									
Frequency [MHz]									
3	QPSK	1	0	20.27	20.43	20.45			
3	QPSK	1	8	20.18	20.24	20.24	21.3	0	
3	QPSK	1	14	20.22	20.31	20.38			
3	QPSK	8	0	20.30	20.34	20.16			
3	QPSK	8	4	20.03	20.21	20.13	21.3	0	
3	QPSK	8	7	20.13	20.21	20.16			
3	QPSK	8	14	20.24	20.30	20.16			
3	16QAM	1	0	20.25	20.40	20.31			
3	16QAM	1	8	20.17	20.15	20.14	21.3	0	
3	16QAM	1	14	20.17	20.26	20.16			
3	16QAM	8	0	20.34	20.34	20.11			
3	16QAM	8	4	20.08	20.15	20.03	21.3	0	
3	16QAM	8	7	20.06	20.14	20.00			
3	16QAM	16	0	20.28	20.29	20.10			
3	64QAM	1	0	20.22	20.46	20.28	21.3	0	
3	64QAM	1	8	20.17	20.36	20.20			
3	64QAM	1	14	20.18	20.17	20.18			
3	64QAM	8	0	20.18	20.24	20.16			
3	64QAM	8	20.08	20.38	20.01	21.3	0		
3	64QAM	8	7	20.13	20.16	20.08			
3	64QAM	16	0	19.94	19.63	19.79			
3	256QAM	1	8	19.81	19.77	19.69	20	1.3	
3	256QAM	8	0	19.86	19.76	19.72			
3	256QAM	8	4	19.55	19.68	19.60	20	1.3	
3	256QAM	8	7	19.52	19.74	19.67			
3	256QAM	16	0	19.43	19.69	19.63			
Channel									
Frequency [MHz]									
1.4	QPSK	1	0	20.24	20.44	20.36			
1.4	QPSK	1	3	20.23	20.24	20.29	21.3	0	
1.4	QPSK	1	5	20.19	20.26	20.27			
1.4	QPSK	3	0	20.27	20.40	20.19			
1.4	QPSK	3	1	20.04	20.20	20.10			
1.4	QPSK	3	5	20.13	20.19	20.05	21.3	0	
1.4	QPSK	3	5	20.28	20.30	20.26			
1.4	16QAM	1	0	20.25	20.41	20.33			
1.4	16QAM	1	3	20.21	20.25	20.25	21.3	0	
1.4	16QAM	1	5	20.18	20.22	20.21			
1.4	16QAM	3	0	20.26	20.36	20.14	21.3	0	
1.4	16QAM	3	1	20.10	20.24	20.09			
1.4	16QAM	3	5	20.09	20.13	20.07			
1.4	16QAM	3	5	20.12	20.11	20.11	21.3	0	
1.4	16QAM	3	5	20.19	20.51	20.27			
1.4	16QAM	3	5	20.21	20.23	20.22			
1.4	16QAM	3	5	20.15	20.17	20.15			
1.4	16QAM	3	5	20.24	20.32	20.19	21.3	0	
1.4	64QAM	1	0	19.97	19.79	19.74			
1.4	64QAM	1	3	19.73	19.71	19.68			
1.4	64QAM	3	0	19.67	19.74	19.69			



Band 12 Ant0 Default														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up (dB)	MPR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.59	22.64	22.52	24	0						
10	QPSK	1	25	22.53	22.54	22.43								
10	QPSK	1	49	22.54	22.54	22.41								
10	QPSK	25	0	22.55	22.58	22.49								
10	QPSK	25	12	22.48	22.45	22.46	24	0						
10	QPSK	25	25	22.47	22.50	22.41								
10	QPSK	50	0	22.47	22.54	22.44								
10	16QAM	1	0	22.45	22.49	22.46								
10	16QAM	1	25	22.40	22.42	22.33	24	0						
10	16QAM	1	49	22.38	22.42	22.36								
10	16QAM	25	0	21.82	21.89	21.82								
10	16QAM	25	12	21.86	21.81	21.72			23.5					
10	16QAM	25	25	21.75	21.81	21.76	24	0						
10	16QAM	50	0	21.75	21.80	21.73								
10	64QAM	1	0	21.85	21.90	21.87								
10	64QAM	1	25	21.82	21.84	21.78			23.5					
10	64QAM	1	49	21.83	21.86	21.85	22.5	1.5						
10	64QAM	25	0	20.78	20.77	20.69								
10	64QAM	25	12	20.67	20.72	20.69								
10	64QAM	25	25	20.69	20.75	20.66								
10	64QAM	50	0	20.71	20.77	20.68	20.5	3.5						
10	256QAM	1	0	18.80	18.89	18.80								
10	256QAM	1	25	18.73	18.83	18.77								
10	256QAM	1	49	18.75	18.83	18.78								
10	256QAM	25	0	18.80	18.76	18.77	20.5	3.5						
10	256QAM	25	12	18.70	18.74	18.70								
10	256QAM	25	25	18.65	18.72	18.66								
10	256QAM	50	0	18.65	18.72	18.66								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.52	22.55	22.48	24	0						
5	QPSK	1	12	22.47	22.45	22.38								
5	QPSK	1	24	22.50	22.52	22.38								
5	QPSK	12	0	22.52	22.54	22.48								
5	QPSK	12	7	22.48	22.43	22.41	24	0						
5	QPSK	12	13	22.46	22.42	22.35								
5	QPSK	25	0	22.41	22.45	22.38								
5	16QAM	1	0	22.41	22.45	22.38								
5	16QAM	1	12	22.34	22.39	22.30	24	0						
5	16QAM	1	24	22.32	22.38	22.31								
5	16QAM	12	0	21.76	21.80	21.76								
5	16QAM	12	7	21.78	21.70	21.68			23.5					
5	16QAM	12	13	21.80	21.75	21.68	22.5	1.5						
5	16QAM	25	0	21.76	21.78	21.64								
5	64QAM	1	0	21.78	21.88	21.78								
5	64QAM	1	24	21.74	21.75	21.61			23.5					
5	64QAM	12	0	20.74	20.71	20.65	22.5	1.5						
5	64QAM	12	7	20.84	20.78	20.68								
5	64QAM	12	13	20.05	20.73	20.63								
5	64QAM	25	0	20.66	20.67	20.63								
5	256QAM	1	0	18.75	18.75	18.75	20.5	3.5						
5	256QAM	1	12	18.68	18.81	18.73								
5	256QAM	12	0	18.70	18.71	18.68								
5	256QAM	12	7	18.61	18.71	18.68								
5	256QAM	12	13	18.61	18.64	18.67	20.5	3.5						
5	256QAM	25	0	18.62	18.64	18.66								
5	256QAM	25	7	18.62	18.70	18.67								
5	256QAM	25	13	18.62	18.70	18.67								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.50	22.55	22.44	24	0						
3	QPSK	1	8	22.50	22.48	22.39								
3	QPSK	1	14	22.51	22.57	22.41								
3	QPSK	8	0	22.47	22.45	22.40								
3	QPSK	8	6	22.43	22.44	22.42	24	0						
3	QPSK	8	7	22.44	22.46	22.38								
3	16QAM	1	0	22.44	22.45	22.38								
3	16QAM	1	0	22.39	22.44	22.43								
3	16QAM	1	8	22.38	22.38	22.25	24	0						
3	16QAM	1	16	22.31	22.38	22.33								
3	16QAM	8	0	21.79	21.84	21.80								
3	16QAM	8	4	21.89	21.87	21.85			23.5					
3	64QAM	1	0	21.72	21.73	21.60	23.5	0.5						
3	64QAM	15	0	21.87	21.80	21.89								
3	64QAM	1	0	21.80	21.84	21.81								
3	64QAM	1	8	21.72	21.62	21.74								
3	64QAM	1	14	21.78	21.81	21.79	22.5	1.5						
3	64QAM	8	0	20.71	20.77	20.69								
3	64QAM	8	4	20.67	20.65	20.65								
3	64QAM	8	7	20.61	20.67	20.61								
3	256QAM	1	0	18.69	18.68	18.66	20.5	3.5						
3	256QAM	1	8	18.65	18.70	18.67								
3	256QAM	1	14	18.68	18.74	18.72								
3	256QAM	8	0	18.70	18.70	18.70								
3	256QAM	8	4	18.65	18.71	18.63	20.5	3.5						
3	256QAM	8	7	18.56	18.64	18.60								
3	256QAM	15	0	18.62	18.70	18.67								
3	256QAM	15	5	18.62	18.70	18.67								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.53	22.55	22.48	24	0						
1.4	QPSK	1	3	22.48	22.48	22.40								
1.4	QPSK	1	5	22.48	22.56	22.39								
1.4	QPSK	3	0	22.45	22.48	22.38								
1.4	QPSK	3	1	22.42	22.42	22.39	24	0						
1.4	QPSK	3	3	22.41	22.41	22.39								
1.4	QPSK	8	0	22.43	22.47	22.37								
1.4	16QAM	1	0	22.42	22.41	22.39								
1.4	16QAM	1	0	22.33	22.35	22.23	24	0						
1.4	16QAM	1	8	22.27	22.38	22.26								
1.4	16QAM	3	0	22.43	22.43	22.39								
1.4	16QAM	3	1	22.38	22.38	22.27								
1.4	16QAM	3	3	22.31	22.30	22.29	23.5	0.5						
1.4	64QAM	1	0	21.72	21.76	21.69								
1.4	64QAM	1	3	21.72	21.77	21.69								
1.4	64QAM	1	5	21.77	21.82	21.77								
1.4	64QAM	3	0	21.80	21.84	21.82								
1.4	64QAM	3	3	21.75	21.77	21.70	22.5	1.5						
1.4	256QAM	1	0	18.62	18.68	18.62								
1.4	256QAM	1	5	18.72	18.80	18.78								
1.4	256QAM	1	3	18.71	18.70	18.72								
1.4	256QAM	1	5	18.71	18.73	18.76	20.5	3.5						
1.4	256QAM	3	0	18.77	18.75	18.69								
1.4	256QAM	3	3	18.67	18.71	18.67	20.5	3.5						
1.4	256QAM	3	5	18.67	18.74	18.68								
1.4	256QAM	6	0	18.65	18.74	18.68								
1.4	256QAM	6	0	18.65	18.74	18.68								
Channel														
Frequency (MHz)														

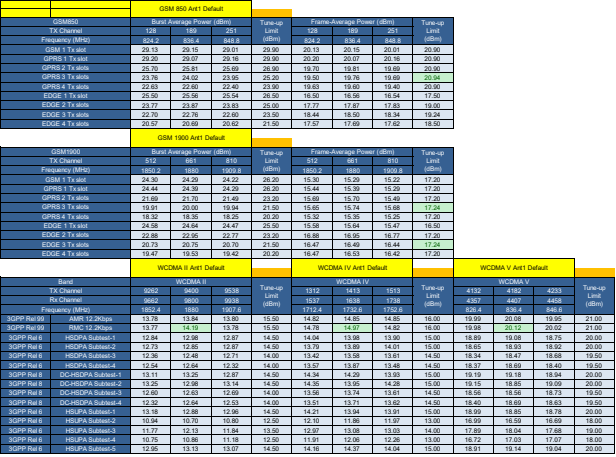


Band 25 Ant0 DSI 3														
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./F.Freq.	Power Hsp./F.Freq.	Turnup time (sec)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	20.42	20.65	20.54	21.3	0						
20	QPSK	1	49	20.41	20.44	20.48								
20	QPSK	1	99	20.42	20.47	20.46	21.3	0						
20	QPSK	50	0	20.44	20.51	20.51								
20	QPSK	50	24	20.27	20.43	20.28	21.3	0						
20	QPSK	50	50	20.32	20.37	20.29								
20	QPSK	100	0	20.40	20.47	20.37	21.3	0						
20	QPSK	100	50	20.38	20.50	20.41								
20	16QAM	1	99	20.33	20.38	20.39	21.3	0						
20	16QAM	1	50	20.41	20.46	20.27								
20	16QAM	50	24	20.24	20.41	20.25	21.3	0						
20	16QAM	50	50	20.25	20.29	20.26								
20	16QAM	100	0	20.32	20.59	20.50	21.3	0						
20	16QAM	100	50	20.31	20.41	20.41								
20	64QAM	1	49	20.31	20.41	20.41	21.3	0						
20	64QAM	1	99	20.39	20.35	20.36								
20	64QAM	50	24	20.17	20.34	20.34	21.3	0						
20	64QAM	50	50	20.19	20.34	20.35								
20	256QAM	100	0	20.29	20.34	20.33	20	1.3						
20	256QAM	1	49	19.68	19.71	19.64								
20	256QAM	1	99	19.64	19.67	19.65	20	1.3						
20	256QAM	50	24	19.57	19.63	19.58								
20	256QAM	50	50	19.61	19.62	19.52	20	1.3						
20	256QAM	50	50	19.45	19.54	19.50								
20	256QAM	100	0	19.12	19.58	19.52	20	1.3						
20	256QAM	100	0	19.17	19.58	19.52								
Channel														
Frequency (MHz)														
15	QPSK	1	0	20.33	20.59	20.44	21.3	0						
15	QPSK	1	37	20.33	20.34	20.46								
15	QPSK	1	74	20.34	20.34	20.43	21.3	0						
15	QPSK	36	0	20.32	20.42	20.23								
15	QPSK	36	36	20.30	20.35	20.22	21.3	0						
15	QPSK	75	0	20.37	20.34	20.30								
15	QPSK	75	0	20.28	20.34	20.30	21.3	0						
15	16QAM	1	0	20.28	20.39	20.36								
15	16QAM	1	37	20.26	20.39	20.30	21.3	0						
15	16QAM	1	74	20.31	20.32	20.28								
15	16QAM	36	0	20.28	20.41	20.15	21.3	0						
15	16QAM	36	20	20.15	20.39	20.08								
15	16QAM	36	39	20.11	20.38	20.14	21.3	0						
15	16QAM	75	0	20.31	20.39	20.16								
15	64QAM	1	0	20.24	20.53	20.43	21.3	0						
15	64QAM	1	37	20.20	20.51	20.45								
15	64QAM	1	74	20.32	20.23	20.32	21.3	0						
15	64QAM	36	0	20.30	20.44	20.15								
15	64QAM	36	36	20.09	20.22	20.13	21.3	0						
15	64QAM	75	0	20.24	20.26	20.28								
15	256QAM	1	0	19.65	19.68	19.66	20	1.3						
15	256QAM	1	37	19.61	19.65	19.59								
15	256QAM	1	74	19.61	19.63	19.62	20	1.3						
15	256QAM	36	20	19.43	19.58	19.52								
15	256QAM	36	39	19.35	19.51	19.41	20	1.3						
15	256QAM	75	0	19.43	19.52	19.43								
15	256QAM	75	0	19.43	19.52	19.43	20	1.3						
15	256QAM	75	0	19.43	19.52	19.43								
Channel														
Frequency (MHz)														
10	QPSK	1	0	20.33	20.33	20.36	21.3	0						
10	QPSK	1	24	20.39	20.39	20.41								
10	QPSK	1	25	20.32	20.31	20.41	21.3	0						
10	QPSK	25	12	20.21	20.40	20.18								
10	QPSK	25	25	20.24	20.30	20.18	21.3	0						
10	QPSK	50	0	20.44	20.44	20.44								
10	16QAM	1	0	20.29	20.48	20.44	21.3	0						
10	16QAM	1	25	20.30	20.31	20.28								
10	16QAM	1	26	20.32	20.32	20.32	21.3	0						
10	16QAM	25	0	20.29	20.39	20.29								
10	16QAM	25	12	20.19	20.25	20.18	21.3	0						
10	16QAM	25	25	20.31	20.24	20.19								
10	16QAM	50	0	20.33	20.37	20.11	21.3	0						
10	16QAM	50	0	20.27	20.45	20.44								
10	16QAM	50	0	20.27	20.45	20.44	21.3	0						
10	16QAM	50	25	20.15	20.23	20.19								
10	16QAM	50	25	20.15	20.23	20.19	21.3	0						
10	16QAM	50	50	20.15	20.38	20.16								
10	16QAM	100	0	20.33	20.33	20.33	21.3	0						
10	16QAM	100	0	20.33	20.33	20.33								
10	16QAM	100	0	20.33	20.33	20.33	21.3	0						
10	16QAM	100	25	20.15	20.23	20.19								
10	64QAM	1	0	20.25	20.53	20.43	21.3	0						
10	64QAM	1	49	20.36	20.27	20.20								
10	64QAM	1	49	20.36	20.27	20.20	21.3	0						
10	64QAM	25	0	20.29	20.44	20.21								
10	64QAM	25	0	20.29	20.44	20.21	21.3	0						
10	64QAM	25	25	20.15	20.23	20.19								
10	256QAM	100	0	19.44	19.51	19.50	20	1.3						
10	256QAM	100	0	19.44	19.51	19.50								
10	256QAM	100	0	19.44	19.51	19.50	20	1.3						
10	256QAM	100	0	19.44	19.51	19.50								
Channel														
Frequency (MHz)														
5	QPSK	1	0	20.28	20.60	20.51	21.3	0						
5	QPSK	1	12	20.33	20.31	20.30								
5	QPSK	1	24	20.39	20.39	20.41	21.3	0						
5	QPSK	12	7	20.17	20.39	20.23								
5	QPSK	12	13	20.19	20.33	20.16	21.3	0						
5	QPSK	25	0	20.28	20.34	20.24								
5	16QAM	1	0	20.28	20.48	20.46	21.3	0						
5	16QAM	1	12	20.24	20.27	20.33								
5	16QAM	12	7	20.14	20.30	20.13	21.3	0						
5	16QAM	12	13	20.15	20.32	20.14								
5	16QAM	25	0	20.25	20.37	20.21	21.3	0						
5	16QAM	25	0	20.23	20.31	20.34								
5	16QAM	12	0	20.29	20.42	20.18	21.3	0						
5	16QAM	12	7	20.14	20.30	20.13								
5	16QAM	12	13	20.15	20.32	20.14	21.3	0						
5	16QAM	25	0	20.25	20.37	20.21								
5	16QAM	25	0	20.23	20.31	20.34	21.3	0						
5	16QAM	12	0	20.29	20.42	20.18								
5	16QAM	12	7	20.14	20.30	20.13	21.3	0						
5	16QAM	12	13	20.15	20.32	20.14								
5	16QAM	25	0	20.25	20.37	20.21	21.3	0						
5	16QAM	25	0	20.23	20.31	20.34								
5	16QAM	12	0	20.29	20.42	20.18	21.3	0						
5	16QAM	12	7	20.14	20.30	20.13								
5	16QAM	12	13	20.15	20.32	20.14	21.3	0						
5	16QAM	25	0	20.25	20.37	20.21								
5	16QAM	25	0	20.23	20.31	20.34	21.3	0						
5	16QAM	12	0	20.29	20.42	20.18								
5	16QAM	12	7	20.14	20.30	20.13	21.3	0						
5	16QAM	12	13	20.15	20.32	20.14								
5	16QAM	25	0	20.25	20.37	20.21	21.3	0						
5	16QAM	25	0	20.23	20.31	20.34								
5	16QAM	12	0	20.29	20.42	20.18	21.3	0						
5	16QAM	12	7	20.14	20.30	20.13								
5	16QAM	12	13	20.15	20.32	20.14	21.3	0						
5	16QAM	25	0	20.25	20.37	20.21								
5	16QAM	25	0	20.23	20.31	20.34	21.3	0						
5	16QAM	12	0	20.29	20.42	20.18								
5	16QAM	12	7	20.14	20.30	20.13	21.3	0						
5	16QAM	12	13	20.15	20.32	20.14								
5	16QAM	25	0	20.25	20.37	20.21	21.3	0						
5	16QAM	25	0	20.23	20.31	20.34								
5	16QAM	12	0	20.29	20.42	20.18	21.3	0						
5	16QAM	12	7	20.14	20.30	20.13								
5	16QAM	12	13	20.15	20.32	20.14	21.3	0						
5	16QAM	25	0	20.25	20.37	20.21								
5	16QAM	25	0	20.23	20.31	20.34	21.3	0						
5	16QAM	12	0	20.29	20.42	20.18								
5	16QAM	12	7	20.14	20.30	20.13	21.3	0						
5	16QAM	12	13	20.15	20.32	20.14								
5	16QAM	25	0	20.25	20.37	20.21	21.3	0						
5	16QAM	25	0	20.23	20.31	20.34								
5	16QAM	12	0	20.29	20.42	20.18	21.3	0						
5	16QAM	12	7	20.14	20.30	20.13								
5	16QAM	12	13	20.15	20.32	20.14	21.3	0						
5	16QAM	25	0	20.25	20.37	20.21								
5	16QAM	25	0	20.23	20.31	20.34	21.3	0						
5	16QAM	12	0	20.29	20.42	20.18								
5	16QAM	12	7	20.14	20.30	20.13	21.3	0						
5	16QAM	12	13	20.15	20.32	20.14								
5	16QAM	25	0	20.25	20.37	20.21	21.3	0						
5	16QAM	25	0	20.23	20.31	20.34								
5	16QAM	12	0	20.29	20.42	20.18	21.3	0						
5	16QAM	12	7	20.14	20.30	20.13								
5	16QAM	12	13	20.15	20.32	20.14	21.3							

Band 71 Ant0 Default										
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Total up limit (dBm)	MPE (dB)		
Channel				133222	133322	133372				
Frequency (MHz)				673	683	688				
20	QPSK	1	0	22.85	22.91	22.77	24	0		
20	QPSK	1	49	22.77	22.88	22.73				
20	QPSK	1	99	22.82	22.85	22.69				
20	QPSK	50	0	22.79	22.94	22.72				
20	QPSK	50	24	22.72	22.74	22.68	24	0		
20	QPSK	50	50	22.76	22.80	22.67				
20	QPSK	100	0	22.71	22.79	22.65				
20	16QAM	1	0	22.69	22.76	22.67				
20	16QAM	1	49	22.85	22.71	22.63	24	0		
20	16QAM	1	99	22.87	22.73	22.69				
20	16QAM	50	0	22.13	22.22	22.19				
20	16QAM	50	24	22.96	22.14	22.08			23.5	
20	16QAM	50	50	22.13	22.16	22.06	23.5	0.5		
20	16QAM	100	0	22.11	22.16	22.07				
20	64QAM	1	0	22.17	22.21	22.17				
20	64QAM	1	49	22.06	22.12	22.01				
20	64QAM	1	99	22.15	22.19	22.12	22.5	1.5		
20	64QAM	50	0	21.15	21.24	21.21				
20	64QAM	50	24	21.12	21.17	21.14				
20	64QAM	50	50	21.06	21.15	21.13				
20	64QAM	100	0	21.14	21.17	21.09	20.5	3.5		
20	256QAM	1	0	19.15	19.19	19.14				
20	256QAM	1	49	19.01	19.10	19.03				
20	256QAM	1	99	19.10	19.13	19.11				
20	256QAM	50	0	19.09	19.12	19.04	20.5	3.5		
20	256QAM	50	24	19.08	19.05	19.08				
20	256QAM	50	50	19.07	19.10	19.07				
20	256QAM	100	0	19.01	19.08	19.10				
Channel				133197	133297	133397	Total up limit (dBm)	MPE (dB)		
Frequency (MHz)				670.5	680.5	685.5				
15	QPSK	1	0	22.80	22.87	22.72	24	0		
15	QPSK	1	37	22.71	22.85	22.67				
15	QPSK	1	74	22.74	22.82	22.60				
15	QPSK	36	0	22.71	22.76	22.65				
15	QPSK	36	20	22.62	22.66	22.62	24	0		
15	QPSK	36	39	22.69	22.74	22.63				
15	QPSK	75	0	22.69	22.72	22.64				
15	16QAM	1	0	22.81	22.86	22.64				
15	16QAM	1	37	22.62	22.69	22.58	24	0		
15	16QAM	1	74	22.59	22.65	22.64				
15	16QAM	36	0	22.08	22.13	22.16				
15	16QAM	36	20	22.01	22.10	22.01			23.5	
15	16QAM	36	39	22.03	22.08	22.01	23.5	0.5		
15	16QAM	75	0	22.02	22.07	22.03				
15	64QAM	1	0	22.12	22.11	22.08				
15	64QAM	1	37	21.04	21.07	21.01				
15	64QAM	1	74	22.09	22.15	22.04	22.5	1.5		
15	64QAM	36	0	21.08	21.21	21.16				
15	64QAM	36	20	21.09	21.07	21.08				
15	64QAM	36	39	20.95	21.10	21.01				
15	64QAM	75	0	21.12	21.11	21.01	20.5	3.5		
15	256QAM	1	0	19.07	19.10	19.04				
15	256QAM	1	37	18.96	19.01	19.02				
15	256QAM	1	74	19.01	19.03	19.04				
15	256QAM	36	0	19.02	19.04	19.03	20.5	3.5		
15	256QAM	36	20	18.91	18.99	18.96				
15	256QAM	36	39	19.02	19.01	18.97				
15	256QAM	75	0	18.92	19.02	18.95				
Channel				133172	133272	133372	Total up limit (dBm)	MPE (dB)		
Frequency (MHz)				668	678	683				
10	QPSK	1	0	22.76	22.87	22.74	24	0		
10	QPSK	1	25	22.71	22.78	22.64				
10	QPSK	1	49	22.76	22.81	22.60				
10	QPSK	25	0	22.71	22.81	22.67				
10	QPSK	25	12	22.65	22.70	22.58	24	0		
10	QPSK	25	25	22.68	22.71	22.59				
10	QPSK	50	0	22.62	22.71	22.58				
10	16QAM	1	0	22.83	22.71	22.63				
10	16QAM	1	25	22.83	22.64	22.61	24	0		
10	16QAM	1	49	22.84	22.68	22.65				
10	16QAM	25	0	22.07	22.17	22.16				
10	16QAM	25	12	22.00	22.08	21.99			23.5	
10	16QAM	25	25	22.03	22.12	21.98	23.5	0.5		
10	16QAM	50	0	22.07	22.11	22.01				
10	64QAM	1	0	22.12	22.15	22.10				
10	64QAM	1	25	22.02	22.06	21.98				
10	64QAM	1	49	22.05	22.15	22.08	22.5	1.5		
10	64QAM	25	0	21.06	21.19	21.12				
10	64QAM	25	12	21.05	21.12	21.11				
10	64QAM	25	25	21.00	21.07	21.06				
10	64QAM	50	0	21.05	21.11	21.04	20.5	3.5		
10	256QAM	1	0	19.09	19.12	19.05				
10	256QAM	1	25	18.98	19.01	19.04				
10	256QAM	1	49	19.04	19.04	19.05				
10	256QAM	25	0	18.99	19.10	19.02	20.5	3.5		
10	256QAM	25	12	18.95	18.96	18.94				
10	256QAM	25	25	19.04	19.02	19.01				
10	256QAM	50	0	18.95	19.02	18.93				
Channel				133147	133247	133347	Total up limit (dBm)	MPE (dB)		
Frequency (MHz)				665.5	675.5	680.5				
5	QPSK	1	0	22.82	22.59	22.73	24	0		
5	QPSK	1	12	22.75	22.82	22.65				
5	QPSK	1	24	22.74	22.82	22.65				
5	QPSK	12	0	22.70	22.78	22.62				
5	QPSK	12	7	22.82	22.66	22.59	24	0		
5	QPSK	12	13	22.72	22.76	22.58				
5	QPSK	25	0	22.63	22.73	22.59				
5	16QAM	1	0	22.85	22.72	22.59				
5	16QAM	1	12	22.68	22.68	22.67	24	0		
5	16QAM	1	24	22.81	22.68	22.65				
5	16QAM	12	0	22.04	22.13	22.12				
5	16QAM	12	7	22.04	22.08	22.02			23.5	
5	16QAM	12	13	22.10	22.09	22.02	23.5	0.5		
5	16QAM	25	0	22.05	22.07	22.00				
5	64QAM	1	0	22.10	22.14	22.12				
5	64QAM	1	12	21.08	22.07	22.02				
5	64QAM	1	24	22.10	22.14	22.05	22.5	1.5		
5	64QAM	12	0	21.08	21.16	21.15				
5	64QAM	12	7	21.05	21.12	21.10				
5	64QAM	12	13	20.99	21.06	21.05				
5	16QAM	25	0	21.10	21.09	21.02	20.5	3.5		
5	256QAM	1	0	19.08	19.14	19.06	20.5	3.5		
5	256QAM	1	12	19.01	19.03	19.05				
5	256QAM	1	24	19.04	19.09	19.04				
5	256QAM	12	0	19.01	19.02	19.01				
5	256QAM	12	7	19.00	19.02	19.05	20.5	3.5		
5	256QAM	12	13	19.02	19.05	19.01				
5	256QAM	25	0	18.99	19.02	18.97				
5	256QAM	25	12	19.02	19.01	18.98				



Band 38 Ant0 DSI 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)				37465	38050	38150				
20	QPSK	1	0	20.76	20.92	20.74	22	0		
20	QPSK	1	48	20.73	20.83	20.68				
20	QPSK	50	0	19.91	19.94	19.92	21	1		
20	QPSK	50	24	18.80	18.85	18.70				
20	QPSK	50	48	18.85	18.75	18.65	20	2		
20	QPSK	100	0	18.76	18.81	18.76				
20	HQAM	1	0	18.70	18.77	18.73	21	1		
20	HQAM	1	48	18.85	18.75	18.68				
20	HQAM	1	96	18.82	18.71	18.58	20	2		
20	HQAM	50	0	18.80	18.82	18.84				
20	HQAM	50	24	18.75	18.84	18.79	19	3		
20	HQAM	50	50	18.73	18.87	18.95				
20	HQAM	100	0	18.78	18.88	18.72	17	5		
20	HQAM	100	1	18.80	18.86	18.76				
20	HQAM	50	1	18.80	18.86	18.76	20	2		
20	HQAM	50	48	18.80	18.78	18.68				
20	HQAM	100	0	17.84	17.92	17.83	19	3		
20	HQAM	100	1	17.73	17.86	17.74				
20	HQAM	50	1	17.71	17.84	17.73	17	5		
20	HQAM	100	0	17.71	17.82	17.79				
20	HQAM	100	1	15.92	15.93	15.91	17	5		
20	HQAM	50	1	15.92	15.88	15.78				
20	HQAM	50	24	15.87	15.91	15.76	17	5		
20	HQAM	50	48	15.87	15.82	15.71				
20	HQAM	100	0	15.78	15.87	15.75	17	5		
20	HQAM	100	50	15.71	15.78	15.71				
20	HQAM	100	0	15.76	15.78	15.74				
Channel										
Frequency (MHz)				37425	38050	38175				
15	QPSK	1	0	20.73	20.94	20.72	22	0		
15	QPSK	1	37	20.68	20.72	20.58				
15	QPSK	1	74	20.72	20.75	20.62	21	1		
15	QPSK	36	0	19.82	19.83	19.68				
15	QPSK	36	20	19.67	19.81	19.58	20	2		
15	QPSK	36	36	19.67	19.80	19.75				
15	QPSK	75	0	19.67	19.77	19.67	21	1		
15	HQAM	1	0	19.58	19.71	19.48				
15	HQAM	1	37	19.56	19.63	19.63	21	1		
15	HQAM	1	74	19.52	19.60	19.48				
15	HQAM	36	0	18.85	18.79	18.82	20	2		
15	HQAM	36	20	18.87	18.80	18.62				
15	HQAM	36	36	18.81	18.87	18.76	19	3		
15	HQAM	75	0	18.70	18.74	18.76				
15	HQAM	75	0	17.75	17.84	17.78	17	5		
15	HQAM	1	37	18.85	18.84	18.82				
15	HQAM	1	74	18.83	18.75	18.72	19	3		
15	HQAM	36	0	17.75	17.84	17.78				
15	HQAM	36	20	17.82	17.82	17.71	17	5		
15	HQAM	36	36	17.77	17.84	17.85				
15	HQAM	75	0	17.66	17.75	17.66	19	3		
15	HQAM	75	0	15.79	15.88	15.73				
15	HQAM	1	37	15.75	15.84	15.73	17	5		
15	HQAM	1	74	15.84	15.85	15.85				
15	HQAM	36	0	15.79	15.77	15.65	17	5		
15	HQAM	36	20	15.81	15.84	15.73				
15	HQAM	36	36	15.84	15.86	15.73	17	5		
15	HQAM	75	0	15.75	15.80	15.62				
15	HQAM	75	0	15.75	15.80	15.62				
Channel										
Frequency (MHz)				37400	38050	38200				
10	QPSK	1	0	20.71	20.94	20.61	22	0		
10	QPSK	1	25	20.69	20.76	20.61				
10	QPSK	1	50	20.71	20.76	20.61	21	1		
10	QPSK	20	0	19.84	19.87	19.76				
10	QPSK	25	12	19.69	19.76	19.61	21	1		
10	QPSK	25	37	19.69	19.76	19.68				
10	QPSK	50	0	19.70	19.73	19.69	20	2		
10	HQAM	1	0	19.60	19.68	19.62				
10	HQAM	1	25	19.59	19.72	19.61	21	1		
10	HQAM	1	49	19.50	19.66	19.51				
10	HQAM	20	0	18.80	18.76	18.89	20	2		
10	HQAM	20	12	18.82	18.79	18.87				
10	HQAM	25	25	18.68	18.86	18.77	19	3		
10	HQAM	50	0	18.73	18.83	18.78				
10	HQAM	50	0	18.71	18.70	18.78	20	2		
10	HQAM	1	25	18.65	18.80	18.70				
10	HQAM	1	49	18.65	18.80	18.70	19	3		
10	HQAM	20	0	17.72	17.89	17.78				
10	HQAM	25	12	17.68	17.73	17.68	17	5		
10	HQAM	25	37	17.73	17.75	17.69				
10	HQAM	50	0	17.64	17.74	17.68	17	5		
10	HQAM	50	1	15.79	15.79	15.61				
10	HQAM	1	25	15.75	15.80	15.73	17	5		
10	HQAM	1	49	15.80	15.87	15.68				
10	HQAM	20	0	15.75	15.79	15.68	17	5		
10	HQAM	20	12	15.73	15.78	15.66				
10	HQAM	25	25	15.50	15.74	15.68	17	5		
10	HQAM	25	37	15.55	15.70	15.62				
Channel										
Frequency (MHz)				37375	38050	38225				
5	QPSK	1	0	20.67	20.94	20.61	22	0		
5	QPSK	1	12	20.68	20.74	20.64				
5	QPSK	1	25	20.68	20.74	20.64	21	1		
5	QPSK	12	0	19.81	19.84	19.71				
5	QPSK	12	7	19.73	19.76	19.63	20	2		
5	QPSK	12	14	19.73	19.76	19.72				
5	QPSK	25	0	19.68	19.78	19.69	21	1		
5	HQAM	1	0	19.66	19.66	19.63				
5	HQAM	1	12	19.66	19.66	19.62	21	1		
5	HQAM	1	25	19.61	19.61	19.54				
5	HQAM	12	7	19.66	19.73	19.70	20	2		
5	HQAM	12	14	19.63	18.83	18.75				
5	HQAM	1	25	18.74	18.71	18.68	19	3		
5	HQAM	1	49	18.75	18.78	18.76				
5	HQAM	1	12	18.67	18.62	18.54	20	2		
5	HQAM	12	7	17.69	17.71	17.66				
5	HQAM	12	14	17.66	17.68	17.60	19	3		
5	HQAM	25	0	17.65	17.74	17.71				
5	HQAM	25	12	17.68	17.70	17.66	17	5		
5	HQAM	25	25	15.76	15.80	15.74				
5	HQAM	1	25	15.75	15.85	15.72	17	5		
5	HQAM	1	49	15.75	15.79	15.67				
5	HQAM	12	7	15.70	15.77	15.67	17	5		
5	HQAM	12	14	15.61	15.73	15.62				
5	HQAM	12	25	15.71	15.75	15.67				





Band 2 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Min [dBm]	Power Max [dBm]	Power Avg [dBm]	Turn-up Time [s]	MPR (dB)	
Channel									
Frequency [MHz]									
20	QPSK	1	0	15.10	15.30	15.02			
20	QPSK	1	49	14.84	14.92	14.88	16.7	0	
20	QPSK	1	99	14.86	15.08	15.01			
20	QPSK	1	0	15.10	15.17	15.04			
20	QPSK	50	24	15.02	15.02	14.94	16.7	0	
20	QPSK	50	50	14.94	14.94	14.87			
20	QPSK	100	0	15.06	15.09	15.04			
20	16QAM	1	0	14.89	15.27	14.90	16.7	0	
20	16QAM	1	49	14.81	14.84	14.81			
20	16QAM	1	99	14.82	14.84	14.84			
20	16QAM	50	24	14.86	14.96	14.80	16.7	0	
20	16QAM	50	50	14.81	14.91	14.73			
20	16QAM	100	0	15.01	15.01	14.86			
20	64QAM	1	0	14.91	15.20	14.86			
20	64QAM	1	49	14.85	14.95	14.96	16.7	0	
20	64QAM	1	99	14.82	15.05	14.83			
20	64QAM	50	0	14.97	14.97	14.89			
20	64QAM	50	24	14.93	14.94	14.88	16.7	0	
20	64QAM	50	50	14.84	14.98	14.75			
20	64QAM	100	0	14.95	15.15	14.87			
20	256QAM	1	49	14.86	14.91	14.86	16.7	0	
20	256QAM	1	99	14.82	15.06	14.83			
20	256QAM	50	0	15.01	14.99	14.87	16.7	0	
20	256QAM	50	50	14.89	14.87	14.75			
20	256QAM	100	0	14.89	14.87	14.80			
Channel									
Frequency [MHz]									
15	QPSK	1	0	15.07	15.08	15.03			
15	QPSK	1	49	14.85	14.86	14.83	16.7	0	
15	QPSK	1	74	14.84	14.95	14.93			
15	QPSK	36	0	15.08	15.08	14.85			
15	QPSK	36	39	14.98	14.98	14.85	16.7	0	
15	QPSK	36	39	14.91	14.95	14.71			
15	QPSK	75	0	14.86	14.89	14.75			
15	16QAM	1	0	14.85	15.16	14.91	16.7	0	
15	16QAM	1	37	14.76	14.78	14.79			
15	16QAM	37	74	14.81	14.81	14.86	16.7	0	
15	16QAM	36	0	14.93	14.94	14.90			
15	16QAM	36	20	14.78	14.92	14.79	16.7	0	
15	16QAM	75	0	14.81	15.03	14.83			
15	64QAM	1	0	14.84	15.10	14.83			
15	64QAM	1	49	14.85	14.88	14.86	16.7	0	
15	64QAM	1	74	14.76	14.92	14.88			
15	64QAM	36	0	14.81	14.90	14.84			
15	64QAM	36	39	14.76	14.92	14.75	16.7	0	
15	64QAM	75	0	14.87	15.11	14.79			
15	256QAM	1	0	14.84	15.04	14.84			
15	256QAM	1	37	14.78	14.89	14.79	16.7	0	
15	256QAM	1	74	14.76	15.02	14.76			
15	256QAM	36	0	14.86	14.75	14.75	16.7	0	
15	256QAM	36	39	14.85	14.82	14.72			
15	256QAM	75	0	14.81	14.87	14.74	16.7	0	
Channel									
Frequency [MHz]									
10	QPSK	1	0	15.05	14.80	14.95			
10	QPSK	1	25	15.07	14.90	14.83	16.7	0	
10	QPSK	1	49	14.85	14.88	14.93			
10	QPSK	25	0	15.02	15.03	15.02			
10	QPSK	25	12	14.99	14.98	14.84	16.7	0	
10	QPSK	25	25	14.90	14.91	14.78			
10	QPSK	50	0	14.96	15.02	14.92			
10	16QAM	1	0	14.84	15.22	14.92	16.7	0	
10	16QAM	1	25	14.72	14.77	14.76			
10	16QAM	1	49	14.86	14.86	14.86	16.7	0	
10	16QAM	25	0	14.90	14.90	14.88			
10	16QAM	25	12	14.78	14.86	14.76	16.7	0	
10	16QAM	25	12	14.76	14.80	14.75			
10	16QAM	50	0	14.92	15.12	14.77			
10	16QAM	50	1	14.84	15.17	14.81	16.7	0	
10	64QAM	1	0	14.76	14.81	14.76			
10	64QAM	1	49	14.86	14.86	14.86	16.7	0	
10	64QAM	25	0	14.89	14.87	14.81			
10	64QAM	25	12	14.78	14.84	14.75	16.7	0	
10	64QAM	50	0	14.92	15.12	14.77			
10	64QAM	50	1	14.81	15.09	14.82			
10	256QAM	1	0	14.81	15.04	14.83			
10	256QAM	1	12	14.78	14.84	14.75	16.7	0	
10	256QAM	1	25	14.73	14.86	14.79			
10	256QAM	25	0	14.96	14.96	14.87	16.7	0	
10	256QAM	25	12	14.77	14.76	14.76			
10	256QAM	25	25	14.82	14.84	14.72	16.7	0	
10	256QAM	50	0	14.88	14.88	14.84			
Channel									
Frequency [MHz]									
5	QPSK	1	0	15.03	15.20	14.97			
5	QPSK	1	12	14.84	14.90	14.81	16.7	0	
5	QPSK	1	24	14.85	14.95	14.84			
5	QPSK	12	0	14.94	15.01	14.94			
5	QPSK	12	7	14.93	14.98	14.88	16.7	0	
5	QPSK	12	13	14.91	14.89	14.76			
5	QPSK	25	0	14.91	15.07	14.96			
5	16QAM	1	0	14.84	15.23	14.89	16.7	0	
5	16QAM	1	12	14.78	14.74	14.80			
5	16QAM	1	24	14.77	14.80	14.76	16.7	0	
5	16QAM	12	0	14.92	14.90	14.88			
5	16QAM	12	7	14.78	14.80	14.72	16.7	0	
5	16QAM	12	13	14.76	14.80	14.75			
5	16QAM	25	0	14.93	15.00	14.86			
5	64QAM	1	0	14.87	15.23	14.81	16.7	0	
5	64QAM	1	12	14.82	14.88	14.88			
5	64QAM	1	24	14.74	14.90	14.84			
5	64QAM	12	0	14.93	14.93	14.78	16.7	0	
5	64QAM	12	13	14.83	14.87	14.80			
5	64QAM	25	0	14.86	15.17	14.70			
5	256QAM	1	0	14.84	15.07	14.83			
5	256QAM	1	12	14.79	14.86	14.80	16.7	0	
5	256QAM	1	24	14.76	14.92	14.75			
5	256QAM	12	0	14.93	14.83	14.84	16.7	0	
5	256QAM	12	7	14.82	14.77	14.74			
5	256QAM	12	13	14.82	14.76	14.71	16.7	0	
5	256QAM	25	0	14.93	14.93	14.84			
Channel									
Frequency [MHz]									
3	QPSK	1	0	15.03	15.01	14.94			
3	QPSK	1	8	14.86	14.86	14.84	16.7	0	
3	QPSK	1	14	14.82	14.86	14.98			
3	QPSK	8	0	15.01	15.01	14.85	16.7	0	
3	QPSK	8	4	14.96	14.94	14.83			
3	QPSK	8	7	14.85	14.94	14.78	16.7	0	
3	QPSK	15	0	15.01	15.00	14.95			
3	16QAM	1	0	14.86	15.11	14.86	16.7	0	
3	16QAM	1	8	14.77	14.80	14.74			
3	16QAM	1	14	14.73	14.87	14.81	16.7	0	
3	16QAM	8	0	14.89	14.86	14.84			
3	16QAM	8	4	14.77	14.86	14.79	16.7	0	
3	16QAM	15	0	14.76	14.80	14.72			
3	64QAM	1	0	14.93	14.98	14.88	16.7	0	
3	64QAM	1	8	14.81	14.86	14.77			
3	64QAM	1	14	14.81	14.84	14.90			
3	64QAM	8	0	14.83	14.84	14.79	16.7	0	
3	64QAM	8	4	14.89	14.89	14.81			
3	64QAM	8	7	14.76	14.78	14.71	16.7	0	
3	64QAM	15	0	14.87	15.09	14.88			
3	256QAM	1	8	14.77	14.88	14.80	16.7	0	
3	256QAM	1	14	14.75	14.80	14.79			
3	256QAM	8	0	14.94	14.89	14.84	16.7	0	
3	256QAM	8	4	14.77	14.78	14.72			
3	256QAM	8	7	14.82	14.80	14.72	16.7	0	
3	256QAM	15	0	14.88	14.95	14.85			
Channel									
Frequency [MHz]									
1.4	QPSK	1	0	15.06	15.27	14.99			
1.4	QPSK	1	3	14.90	14.85	14.84	16.7	0	
1.4	QPSK	1	5	14.82	15.00	14.94			
1.4	QPSK	3	0	15.07	15.03	15.00			
1.4	QPSK	3	1	15.00	14.97	14.96	16.7	0	
1.4	QPSK	3	3	14.89	14.97	14.78			
1.4	QPSK	6	0	14.96	15.06	14.96	16.7	0	
1.4	16QAM	1	0	14.82	15.10	14.92			
1.4	16QAM	1	3	14.75	14.75	14.76	16.7	0	
1.4	16QAM	1	5	14.77	14.85	14.88			
1.4	16QAM	3	0	14.96	14.87	14.87	16.7	0	
1.4	16QAM	3	1	14.71	14.98	14.73			
1.4	16QAM	3	3	14.76	14.85	14.80	16.7	0	
1.4	16QAM	6	0	14.93	14.83	14.83			
1.4	16QAM	6	1	14.83	15.17	14.80	16.7	0	
1.4	16QAM	6	3	14.83	14.83	14.80			
1.4	16QAM	6	5	14.75	14.93	14.79	16.7	0	
1.4	16QAM	6	7	14.83	14.84	14.79			
1.4	16QAM	6	9	14.87	14.89	14.84			
1.4	16QAM	6	11	14.78	14.78	14.78	16.7	0	
1.4	16QAM	6	13	14.89	14.90	14.82			
1.4	16QAM	6	15	14.83	15.07	14.80	16.7	0	
1.4	16QAM	6	17	14.89	14.89	14.81			
1.4	16QAM	6	19	14.77	14.77	14.77	16.7	0	
1.4	16QAM	6	21	14.87	14.87	14.80			
1.4	16QAM</								



Band 12 Ant1 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	20.61	20.72	20.84			
10	QPSK	1	25	20.61	20.72	20.84	22	0	
10	QPSK	1	49	20.47	20.53	20.52			
10	QPSK	25	0	20.58	20.53	20.58			
10	QPSK	25	12	20.38	20.53	20.48	22	0	
10	QPSK	25	25	20.52	20.49	20.52			
10	QPSK	50	0	20.53	20.56	20.52			
10	16QAM	1	0	20.53	20.59	20.44			
10	16QAM	1	25	20.37	20.38	20.35	22	0	
10	16QAM	1	49	20.42	20.38	20.37			
10	16QAM	25	0	20.61	20.59	20.49			
10	16QAM	25	12	20.43	20.43	20.33	22	0	
10	16QAM	25	25	20.29	20.21	20.45			
10	16QAM	50	0	20.49	20.44	20.45			
10	64QAM	1	0	20.58	20.60	20.59			
10	64QAM	1	25	20.39	20.56	20.38	22	0	
10	64QAM	1	49	20.38	20.45	20.52			
10	64QAM	25	0	20.47	20.52	20.39			
10	64QAM	25	12	20.69	20.61	20.60	22	0	
10	64QAM	25	25	20.32	20.48	20.40			
10	64QAM	50	0	20.34	20.42	20.52			
10	256QAM	1	25	18.87	18.90	18.87	20	2	
10	256QAM	1	49	18.79	18.84	18.83			
10	256QAM	25	0	18.79	18.82	18.80			
10	256QAM	25	12	18.70	18.82	18.88	20	2	
10	256QAM	25	25	18.80	18.80	18.90			
10	256QAM	50	0						
Channel									
Frequency (MHz)									
5	QPSK	1	0	20.81	20.81	20.82			
5	QPSK	1	24	20.47	20.49	20.28	22	0	
5	QPSK	1	48	20.38	20.41	20.47			
5	QPSK	12	0	20.47	20.52	20.47			
5	QPSK	12	7	20.24	20.41	20.36	22	0	
5	QPSK	12	13	20.42	20.39	20.42			
5	QPSK	25	0	20.59	20.48	20.59			
5	16QAM	1	0	20.48	20.44	20.41			
5	16QAM	1	12	20.35	20.32	20.29	22	0	
5	16QAM	1	24	20.36	20.34	20.23			
5	16QAM	12	0	20.49	20.62	20.47			
5	16QAM	12	7	20.35	20.53	20.22	22	0	
5	16QAM	12	13	20.17	20.27	20.41			
5	64QAM	1	0	20.53	20.51	20.54			
5	64QAM	1	24	20.41	20.58	20.38	22	0	
5	64QAM	1	48	20.27	20.34	20.50			
5	64QAM	12	0	20.33	20.45	20.33			
5	64QAM	12	7	20.46	20.46	20.28	22	0	
5	64QAM	12	13	20.25	20.44	20.36			
5	64QAM	25	0	20.28	20.56	20.48			
5	256QAM	1	0	18.67	18.67	18.60	20	2	
5	256QAM	1	12	18.65	18.80	18.79			
5	256QAM	1	24	18.75	18.82	18.78			
5	256QAM	12	7	18.53	18.75	18.84	20	2	
5	256QAM	12	13	18.56	18.76	18.71			
5	256QAM	25	0						
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	20.42	20.42	20.52			
1.4	QPSK	1	3	20.42	20.41	20.30	22	0	
1.4	QPSK	1	5	20.35	20.49	20.41			
1.4	QPSK	3	0	20.48	20.54	20.51			
1.4	QPSK	3	1	20.24	20.45	20.43			
1.4	QPSK	3	3	20.43	20.47	20.48	22	0	
1.4	16QAM	1	0	20.47	20.49	20.38			
1.4	16QAM	1	3	20.31	20.26	20.21	22	0	
1.4	16QAM	1	5	20.37	20.25	20.31			
1.4	16QAM	3	0	20.54	20.62	20.41			
1.4	16QAM	3	1	20.30	20.31	20.19	22	0	
1.4	16QAM	3	3	20.18	20.38	20.36			
1.4	16QAM	6	0	20.38	20.31	20.43	22	0	
1.4	64QAM	1	0	20.44	20.50	20.54			
1.4	64QAM	1	3	20.31	20.49	20.22	22	0	
1.4	64QAM	1	5	20.35	20.34	20.44			
1.4	64QAM	3	0	20.40	20.45	20.28			
1.4	64QAM	3	1	20.61	20.57	20.43	22	0	
1.4	64QAM	3	3	20.23	20.37	20.37			
1.4	64QAM	6	0	20.22	20.37	20.47	22	0	
1.4	256QAM	1	0	18.83	18.94	18.77			
1.4	256QAM	1	3	18.73	18.73	18.78			
1.4	256QAM	1	5	18.94	18.74	18.78	20	2	
1.4	256QAM	3	0	18.72	18.86	18.85			
1.4	256QAM	3	1	18.64	18.89	18.82			
1.4	256QAM	3	3	18.89	18.73	18.74	20	2	
1.4	256QAM	6	0	18.91	18.65	18.70			

Band 13 Ant1 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0		19.47				
10	QPSK	1	25		19.35		20.7	0	
10	QPSK	1	49		19.49				
10	QPSK	25	0		19.46				
10	QPSK	25	12		19.34		20.7	0	
10	QPSK	25	25		19.34				
10	QPSK	50	0		19.45				
10	16QAM	1	0		19.41				
10	16QAM	1	25		19.38		20.7	0	
10	16QAM	1	49		19.35				
10	16QAM	25	0		19.38				
10	16QAM	25	12		19.25		20.7	0	
10	16QAM	25	25		19.43				
10	16QAM	50	0		19.32				
10	64QAM	1	0		19.44				
10	64QAM	1	25		19.36		20.7	0	
10	64QAM	1	49		19.27				
10	64QAM	25	0		19.42				
10	64QAM	25	12		19.21		20.7	0	
10	64QAM	25	25		19.35				
10	64QAM	50	0		19.40				
10	256QAM	1	25		18.95		20	0.7	
10	256QAM	1	49		18.87				
10	256QAM	25	0		18.94				
10	256QAM	25	12		19.28		20	0.7	
10	256QAM	25	25		19.18				
10	256QAM	50	0		19.43				
Channel									
Frequency (MHz)									
5	QPSK	1	0	19.41	19.44	19.44			
5	QPSK	1	12	19.30	19.27	19.32	20.7	0	
5	QPSK	1	24	19.33	19.34	19.29			
5	QPSK	12	0	19.43	19.35	19.40			
5	QPSK	12	7	19.31	19.31	19.30	20.7	0	
5	QPSK	12	13	19.39	19.30	19.24			
5	QPSK	25	0	19.48	19.37				
5	16QAM	1	0	19.40	19.38	19.39			
5	16QAM	1	12	19.34	19.35	19.34	20.7	0	
5	16QAM	1	24	19.30	19.27	19.26			
5	16QAM	12	0	19.28	19.28	19.24			
5	16QAM	12	7	19.12	19.17	19.15	20.7	0	
5	16QAM	12	13	19.22	19.12	19.21			
5	64QAM	1	0	19.19	19.28	19.28			
5	64QAM	1	6	19.42	19.46	19.43	20.7	0	
5	64QAM	1	12	19.30	19.20	19.16			
5	64QAM	1	24	19.22	19.20	19.21			
5	64QAM	12	0	19.40	19.38	19.38			
5	64QAM	12	6	19.10	19.17	19.11	20.7	0	
5	64QAM	12	13	19.13	19.10	19.13			
5	64QAM	25	0	19.37	19.30	19.36			
5	256QAM	1	0	18.90	18.90	18.75	20	0.7	
5	256QAM	1	12	18.90	18.90	18.90			
5	256QAM	1	24	18.89	18.88	18.82			
5	256QAM	12	6	19.14	19.20	19.18			
5	256QAM	12	7	19.19	19.10	19.15	20	0.7	
5	256QAM	12	13	19.10	18.99	18.98			
5	256QAM	25	0	19.38	19.38	19.33			

Band 14 Ant1 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0		19.01				
10	QPSK	1	25		18.98		20.3	0	
10	QPSK	1	49		18.77				
10	QPSK	25	0		18.86				
10	QPSK	25	12		18.72		20.3	0	
10	QPSK	25	25		18.83				
10	QPSK	50	0		18.87				
10	16QAM	1	0		18.88				
10	16QAM	1	25		18.72		20.3	0	
10	16QAM	1	49		18.66				
10	16QAM	25	0		18.83				
10	16QAM	25	12		18.66		20.3	0	
10	16QAM	25	25		18.73				
10	16QAM	50	0		18.78				
10	16QAM	1	26		18.78		20.3	0	
10	16QAM	1	49		18.76				
10	16QAM	25	26		18.78		20.3	0	
10	16QAM	25	12		18.83				
10	16QAM	25	25		18.78				
10	16QAM	50	0		18.79				
10	256QAM	1	0		18.79				
10	256QAM	1	25		18.82		20.3	0	
10	256QAM	1	49		18.71				
10	256QAM	25	0		18.78				
10	256QAM	25	12		18.78				
10	256QAM	25	25		18.77				
10	256QAM	50	0		18.76				
Channel									
Frequency (MHz)									
5	QPSK	1	0		19.09	19.01	19.95		
5	QPSK	1	12		18.73	18.81	18.82		
5	QPSK	1	24		18.73	18.71	18.70		
5	QPSK	12	0		18.77	18.73	18.79		
5	QPSK	12	7		18.65	18.60	18.66		20.3
5	QPSK	12	14		18.76	18.70	18.63		
5	QPSK	25	0		18.75	18.81	18.81		
5	16QAM	1	6		18.95	18.91	18.94		
5	16QAM	1	14		18.64	18.67	18.64		20.3
5	16QAM	12	0		18.57	18.58	18.59		
5	16QAM	12	0		18.79	18.73	18.78		
5	16QAM	12	6		18.63	18.63	18.60		20.3
5	16QAM	12	18		18.67	18.70	18.61		
5	16QAM	25	0		18.68	18.76	18.75		
5	16QAM	25	12		18.75	18.75	18.63		20.3
5	16QAM	1	12		18.66	18.68	18.64		
5	16QAM	1	24		18.69	18.66	18.74		
5	16QAM	12	0		18.74	18.74	18.73		
5	16QAM	12	7		18.50	18.50	18.52		
5	16QAM	12	19		18.63	18.57	18.56		20.3
5	16QAM	25	0		18.69	18.70	18.77		
5	16QAM	25	12		18.68	18.76	18.70		
5	256QAM	1	12		18.77	18.74	18.79		20.3
5	256QAM	1	24		18.75	18.75	18.58		
5	256QAM	12	0		18.74	18.73	18.70		
5	256QAM	12	7		18.53	18.55	18.51		
5	256QAM	12	19		18.59	18.67	18.58		
5	256QAM	25	0		18.65	18.68	18.66		

Band 25 Ant1 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
26145 26145 26145										
Frequency (MHz)										
20	QPSK	1	0	15.14	15.43	15.15				
20	QPSK	1	49	15.03	15.01	14.95	16.7	0		
20	QPSK	1	99	14.98	15.10	15.13				
20	QPSK	50	0	15.12	15.17	15.08				
20	QPSK	50	24	15.08	15.18	14.98				
20	QPSK	50	50	15.00	15.04	14.98	16.7	0		
20	QPSK	100	0	15.14	15.20	15.09				
20	16QAM	1	0	15.01	15.32	15.05				
20	16QAM	1	49	14.84	14.94	14.89	16.7	0		
20	16QAM	1	99	14.92	15.01	14.97				
20	16QAM	50	0	15.03	15.08	15.04				
20	16QAM	50	24	14.90	15.07	14.98	16.7	0		
20	16QAM	50	50	14.80	14.93	14.85				
20	16QAM	100	0	15.08	15.09	14.95				
20	84QAM	1	0	15.00	15.37	14.97				
20	84QAM	1	49	14.93	14.98	14.90	16.7	0		
20	84QAM	1	99	14.88	15.14	14.97				
20	84QAM	50	0	15.09	15.10	14.95				
20	84QAM	50	24	14.99	15.02	14.96	16.7	0		
20	84QAM	50	50	14.92	14.95	14.79				
20	84QAM	100	0	15.02	15.18	14.95				
20	256QAM	1	0	14.96	15.25	15.10				
20	256QAM	1	49	15.00	14.95	14.93	16.7	0		
20	256QAM	1	99	14.95	15.10	14.96				
20	256QAM	50	0	14.96	14.98	14.85				
20	256QAM	50	24	14.90	14.95	14.84	16.7	0		
20	256QAM	50	50	14.95	14.99	14.76				
20	256QAM	100	0	15.05	15.09	15.00				
Channel										
26115 26140 26115										
Frequency (MHz)										
15	QPSK	1	0	15.06	15.31	15.04				
15	QPSK	1	37	15.00	14.98	14.84	16.7	0		
15	QPSK	1	74	14.84	15.08	15.04				
15	QPSK	36	0	15.09	15.12	15.00				
15	QPSK	36	20	14.99	15.07	14.91	16.7	0		
15	QPSK	36	36	14.88	14.94	14.72				
15	QPSK	75	0	15.04	15.07	15.02				
15	16QAM	1	0	14.93	15.24	14.88				
15	16QAM	1	37	14.81	14.89	14.81	16.7	0		
15	16QAM	1	74	14.86	14.95	14.85				
15	16QAM	36	0	14.98	14.95	15.00				
15	16QAM	36	20	14.83	15.01	14.83	16.7	0		
15	16QAM	36	36	14.73	14.91	14.75				
15	16QAM	75	0	15.08	15.01	14.84				
15	84QAM	1	0	14.87	15.33	14.84				
15	84QAM	1	37	14.85	14.88	14.80	16.7	0		
15	84QAM	1	74	14.88	15.10	14.93				
15	84QAM	36	0	15.02	15.08	14.90				
15	84QAM	36	20	14.96	14.95	14.82	16.7	0		
15	84QAM	36	36	14.82	14.85	14.72				
15	84QAM	75	0	14.97	15.09	14.86				
15	256QAM	1	0	14.88	15.12	15.05				
15	256QAM	1	37	14.97	14.85	14.84	16.7	0		
15	256QAM	1	74	14.82	14.96	14.90				
15	256QAM	36	0	14.96	14.98	14.85				
15	256QAM	36	20	14.85	14.91	14.71	16.7	0		
15	256QAM	36	36	14.88	14.85	14.72				
15	256QAM	75	0	14.98	14.93	14.81				
Channel										
26065 26140 26065										
Frequency (MHz)										
10	QPSK	1	0	14.92	15.30	15.00				
10	QPSK	1	25	14.92	14.98	14.81	16.7	0		
10	QPSK	1	49	14.95	15.04	15.10				
10	QPSK	12	0	15.05	15.15	14.98				
10	QPSK	12	13	14.99	15.08	14.94	16.7	0		
10	QPSK	25	25	14.95	14.98	14.78				
10	QPSK	36	0	15.11	15.13	15.05				
10	16QAM	1	0	14.88	15.20	15.02				
10	16QAM	1	25	14.72	14.92	14.79	16.7	0		
10	16QAM	1	49	14.83	14.98	14.83				
10	16QAM	25	0	14.99	14.93	14.90				
10	16QAM	25	12	14.87	14.97	14.82	16.7	0		
10	16QAM	25	26	14.70	14.91	14.74				
10	16QAM	50	0	15.03	15.04	14.88				
10	84QAM	1	0	14.89	15.28	14.85	16.7	0		
10	84QAM	1	26	14.78	14.82	14.85				
10	84QAM	1	49	14.78	15.05	14.93				
10	84QAM	25	0	15.01	15.02	14.83				
10	84QAM	25	12	14.91	14.90	14.83	16.7	0		
10	84QAM	25	26	14.85	14.88	14.71				
10	84QAM	50	0	14.93	15.15	14.88				
10	256QAM	1	0	14.84	15.22	15.02				
10	256QAM	1	25	14.90	14.87	14.90	16.7	0		
10	256QAM	1	49	14.92	14.99	14.85				
10	256QAM	25	0	14.95	14.99	15.03				
10	256QAM	25	12	14.78	14.88	14.73	16.7	0		
10	256QAM	25	26	14.82	14.86	15.03				
10	256QAM	50	0	14.93	14.98	14.88				
Channel										
26065 26065 26065										
Frequency (MHz)										
5	QPSK	1	0	14.92	15.30	15.00				
5	QPSK	1	12	14.80	14.90	14.92	16.7	0		
5	QPSK	1	24	14.88	15.05	15.08				
5	QPSK	12	0	15.05	15.15	14.98				
5	QPSK	12	7	15.03	15.12	14.94	16.7	0		
5	QPSK	12	13	14.98	14.93	14.75				
5	QPSK	25	0	15.05	15.14	14.85				
5	16QAM	1	0	14.93	15.23	15.00				
5	16QAM	1	12	14.77	14.90	14.82	16.7	0		
5	16QAM	1	24	14.83	14.94	14.83				
5	16QAM	12	0	14.94	15.03	14.84				
5	16QAM	12	7	14.82	14.95	14.81	16.7	0		
5	16QAM	12	13	14.74	14.88	14.72				
5	16QAM	25	0	14.99	14.98	14.84				
5	84QAM	1	0	14.92	15.28	14.84	16.7	0		
5	84QAM	1	12	14.90	14.93	14.85				
5	84QAM	1	24	14.85	15.07	14.94				
5	84QAM	12	0	15.06	15.03	14.89				
5	84QAM	12	7	14.85	14.98	14.81	16.7	0		
5	84QAM	12	13	14.79	14.91	14.73				
5	84QAM	25	0	14.96	15.14	14.83				
5	256QAM	1	0	14.94	15.21	15.07				
5	256QAM	1	12	14.87	14.90	14.86	16.7	0		
5	256QAM	1	24	14.92	15.05	14.83				
5	256QAM	12	0	14.96	14.98	14.86				
5	256QAM	12	7	14.81	14.85	14.75	16.7	0		
5	256QAM	12	13	14.83	14.90	14.74				
5	256QAM	25	0	15.03	14.95	14.85				
Channel										
26047 26040 26047										
Frequency (MHz)										
3	QPSK	1	0	15.03	15.30	15.03				
3	QPSK	1	8	14.95	14.88	14.88	16.7	0		
3	QPSK	1	14	14.87	15.01	15.03				
3	QPSK	8	0	15.06	15.10	15.02				
3	QPSK	8	4	14.97	15.09	14.88	16.7	0		
3	QPSK	8	7	14.95	15.02	14.82				
3	QPSK	16	0	15.00	15.17	14.89				
3	16QAM	1	0	14.97	15.22	15.02				
3	16QAM	1	8	14.74	14.90	14.79	16.7	0		
3	16QAM	1	14	14.89	14.97	14.83				
3	16QAM	8	0	14.90	14.96	14.95				
3	16QAM	8	4	14.85	15.01	14.80	16.7	0		
3	16QAM	8	7	14.75	14.88	14.79				
3	16QAM	16	0	15.01	14.95	14.89				
3	84QAM	1	0	14.86	15.31	14.89	16.7	0		
3	84QAM	1	8	14.82	14.93	14.89				
3	84QAM	1	14	14.85	15.02	14.91				
3	84QAM	8	0	15.03	15.07	14.84				
3	84QAM	8	4	14.90	14.92	14.81	16.7	0		
3	84QAM	8	7	14.80	14.88	14.83				
3	84QAM	16	0	14.89	15.13	14.92				
3	84QAM	16	8	14.87	14.98	14.89				
3	84QAM	16	14	14.89	14.94	14.84	16.7	0		
3	256QAM	1	0	14.90	15.07	14.82				
3	256QAM	1	8	14.82	14.90	14.82	16.7	0		
3	256QAM	1	14	14.85	14.96	14.87				
3	256QAM	8	0	14.88	14.98	14.73				
3	256QAM	8	7	14.87	14.96	15.03	16.7	0		
3	256QAM	16	0	14.92	14.95	14.80				
Channel										
26047 26040 26047										
Frequency (MHz)										
1.4	QPSK	1	0	15.08	15.31	15.01				
1.4	QPSK	1	8	14.98	14.88	14.88	16.7	0		
1.4	QPSK	1	6	14.92	15.07	15.05				
1.4	QPSK	3	0	15.08	15.08	14.94				
1.4	QPSK	3	3	14.96	15.06	14.98	16.7	0		
1.4	QPSK	3	6	14.96	15.00	14.78				
1.4	QPSK	6	0	15.17	15.17	15.02				



Band 38 Ant1 Default											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up Int (s/min)	MPE (dB)			
Channel											
Frequency (MHz)				39750	39800	39850					
20	QPSK	1	0	19.32	19.35	19.35	20.3	0			
20	QPSK	1	49	19.24	19.23	19.07					
20	QPSK	1	99	19.30	19.30	19.09					
20	QPSK	50	19	19.17	19.18	19.08					
20	QPSK	50	24	19.10	19.23	19.04					
20	QPSK	50	29	19.20	19.20	19.08					
20	QPSK	100	0	19.12	19.21	19.08	20.3	0			
20	16QAM	1	0	19.20	19.20	19.09					
20	16QAM	1	49	19.08	19.08	19.07					
20	16QAM	1	99	19.31	19.31	19.04					
20	16QAM	50	0	18.40	18.40	18.31					
20	16QAM	50	24	18.75	18.75	18.46					
20	16QAM	50	29	18.28	18.48	18.37	20	0.3			
20	16QAM	100	0	18.50	18.50	18.27					
20	16QAM	100	0	18.75	18.75	18.47					
20	64QAM	1	49	18.74	18.71	18.71					
20	64QAM	1	99	18.64	18.64	18.68					
20	64QAM	50	0	17.60	17.63	17.67					
20	64QAM	50	24	17.60	17.62	17.67	19	1.3			
20	64QAM	50	29	17.67	17.67	17.60					
20	64QAM	100	0	17.71	17.76	17.64					
20	256QAM	1	0	15.81	15.76	15.76					
20	256QAM	1	49	15.81	15.69	15.63					
20	256QAM	1	99	15.92	15.68	15.73					
20	256QAM	50	24	15.64	15.64	15.69	17	3.3			
20	256QAM	50	29	15.61	15.59	15.57					
20	256QAM	50	50	15.62	15.66	15.64					
20	256QAM	100	0	15.74	15.70	15.70					
Channel											
Frequency (MHz)				39825	39875	39925			Time-up Int (s/min)	MPE (dB)	
10	QPSK	1	0	19.12	19.10	19.12	20.3	0			
10	QPSK	1	37	19.13	19.11	19.07					
10	QPSK	1	74	19.20	19.19	19.08					
10	QPSK	1	111	19.14	19.12	19.07					
10	QPSK	36	20	19.03	19.13	19.04					
10	QPSK	36	57	19.08	19.08	19.03					
10	QPSK	72	0	19.00	19.00	19.04	20.3	0			
10	16QAM	1	0	19.10	19.10	19.09					
10	16QAM	1	37	19.13	19.13	19.11					
10	16QAM	1	74	19.21	19.03	19.02					
10	16QAM	36	0	18.41	19.01	19.41					
10	16QAM	36	37	18.33	19.04	19.33					
10	16QAM	36	74	18.10	18.43	19.25	20	0.3			
10	16QAM	72	0	18.43	18.43	18.22					
10	16QAM	72	0	18.64	18.68	18.70					
10	64QAM	1	37	18.67	18.66	18.67					
10	64QAM	1	74	18.53	18.53	18.62					
10	64QAM	36	0	17.61	17.62	17.58					
10	64QAM	36	20	17.47	17.60	17.44	19	1.3			
10	64QAM	36	57	17.62	17.61	17.61					
10	64QAM	72	0	17.62	17.64	17.56					
10	256QAM	1	0	15.69	15.62	15.63					
10	256QAM	1	37	15.68	15.62	15.63					
10	256QAM	1	74	15.60	15.57	15.52					
10	256QAM	36	0	15.45	15.52	15.53	17	3.3			
10	256QAM	36	37	15.45	15.50	15.50					
10	256QAM	36	74	15.51	15.51	15.49					
10	256QAM	72	0	15.67	15.61	15.63					
10	256QAM	72	0	15.74	15.70	15.68					
10	256QAM	100	0	15.70	15.68	15.68					
Channel											
Frequency (MHz)				39900	39950	40000	Time-up Int (s/min)	MPE (dB)			
10	QPSK	1	0	19.12	19.10	19.11	20.3	0			
10	QPSK	1	25	19.18	19.10	19.04					
10	QPSK	1	49	19.17	19.10	19.08					
10	QPSK	20	0	19.15	19.10	19.11					
10	QPSK	20	12	18.98	19.12	19.01					
10	QPSK	20	25	19.01	19.10	19.09					
10	QPSK	50	0	18.99	19.15	19.02	20.3	0			
10	16QAM	1	0	19.13	19.08	19.02					
10	16QAM	1	25	19.07	19.09	19.09					
10	16QAM	1	49	19.07	19.04	19.08					
10	16QAM	20	0	18.30	18.46	18.42					
10	16QAM	20	12	18.30	18.30	18.30					
10	16QAM	20	25	18.18	18.35	18.28	20	0.3			
10	16QAM	50	0	18.40	18.43	18.43					
10	64QAM	1	0	18.64	18.65	18.67					
10	64QAM	1	25	18.70	18.66	18.68					
10	64QAM	20	0	17.60	17.60	17.60					
10	64QAM	20	0	17.47	17.41	17.61					
10	64QAM	20	12	17.64	17.65	17.61	19	1.3			
10	64QAM	20	25	17.47	17.47	17.47					
10	64QAM	50	0	17.61	17.57	17.59					
10	64QAM	50	0	18.73	18.73	18.64					
10	256QAM	1	25	15.65	15.62	15.52					
10	256QAM	1	49	15.68	15.66	15.60					
10	256QAM	20	0	15.63	15.63	15.60	17	3.3			
10	256QAM	20	12	15.61	15.48	15.48					
10	256QAM	20	25	15.66	15.67	15.55					
10	256QAM	50	0	15.70	15.67	15.67					
Channel											
Frequency (MHz)				39975	40025	40075			Time-up Int (s/min)	MPE (dB)	
5	QPSK	1	0	19.14	19.10	19.10	20.3	0			
5	QPSK	1	12	19.20	19.21	19.08					
5	QPSK	1	24	19.23	19.23	19.09					
5	QPSK	12	0	19.11	19.07	19.15					
5	QPSK	12	7	19.06	19.15	19.04					
5	QPSK	12	14	19.13	19.13	19.70					
5	16QAM	1	0	19.00	19.15	19.06	20.3	0			
5	16QAM	1	0	19.17	19.03	19.04					
5	16QAM	1	12	19.05	19.03	19.74					
5	16QAM	1	24	19.05	19.01	19.09					
5	16QAM	12	7	19.34	19.34	19.42					
5	16QAM	12	7	19.31	19.34	19.36					
5	16QAM	12	13	18.96	18.41	19.31	20	0.3			
5	16QAM	24	0	18.44	18.38	18.23					
5	64QAM	1	0	18.70	18.61	18.67					
5	64QAM	1	12	18.42	18.63	18.65					
5	64QAM	1	24	18.42	18.64	18.64					
5	64QAM	12	13	17.48	17.48	17.49					
5	64QAM	12	13	17.48	17.48	17.49	19	1.3			
5	64QAM	20	0	17.65	17.68	17.59					
5	256QAM	1	12	15.64	15.63	15.57					
5	256QAM	1	24	15.60	15.63	15.64					
5	256QAM	12	0	15.71	15.69	15.66					
5	256QAM	12	7	15.63	15.51	15.51					
5	256QAM	12	13	15.63	15.58	15.58	17	3.3			
5	256QAM	20	0	15.60	15.60	15.61					
5	256QAM	20	13	15.61	15.58	15.58					
5	256QAM	20	26	15.61	15.58	15.58					
5	256QAM	20	39	15.61	15.58	15.58					
5	256QAM	20	52	15.61	15.58	15.58					



Band 48_FCC Ant1 DSI 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MFR (dB)	
Channel				56540	56630	56760	56840	Turn-up time (dBm)	MFR (dB)	
Frequency (MHz)				56610	56700	56830	56920			
20	QPSK	1	0	18.01	18.26	17.99	18.12	19.2	0	
20	QPSK	1	49	17.88	18.00	18.03	17.87			
20	QPSK	1	99	18.00	18.08	18.10	17.98			
20	QPSK	50	0	17.94	17.99	18.02	17.97			
20	QPSK	50	24	17.86	17.96	18.00	17.89	19.2	0	
20	QPSK	50	50	17.79	17.92	17.95	17.82			
20	QPSK	100	0	17.87	17.93	17.97	17.82			
20	16QAM	1	0	17.72	17.75	17.87	17.85			
20	16QAM	1	49	17.68	17.83	17.77	17.64	19.2	0	
20	16QAM	1	99	17.50	17.71	17.80	17.57			
20	16QAM	50	0	17.62	17.72	17.81	17.65			
20	16QAM	50	24	17.65	17.83	17.75	17.63			
20	16QAM	50	50	17.56	17.66	17.56	17.60	19.2	0	
20	64QAM	100	0	17.50	17.70	17.58	17.51			
20	64QAM	1	0	17.41	17.51	17.45	17.46			
20	64QAM	1	49	17.48	17.58	17.54	17.56			
20	64QAM	1	99	17.38	17.35	17.33	17.35	19.2	0	
20	64QAM	50	0	17.41	17.51	17.45	17.46			
20	64QAM	50	24	17.27	17.42	17.29	17.31			
20	64QAM	50	50	17.25	17.31	17.22	17.31			
20	256QAM	100	0	18.45	18.34	18.37	18.38	18	1.2	
20	256QAM	1	0	18.32	18.37	18.33	18.31			
20	256QAM	1	99	18.25	18.32	18.28	18.26			
20	256QAM	50	0	18.17	18.18	18.14	18.12			
20	256QAM	50	24	18.05	18.08	18.02	18.04	18	1.2	
20	256QAM	50	50	18.10	18.14	18.08	18.06			
20	256QAM	100	0	18.04	18.11	18.05	18.08			
20	256QAM	100	0	18.04	18.11	18.05	18.08			
Channel				56315	56420	56760	56865	Turn-up time (dBm)	MFR (dB)	
Frequency (MHz)				56385	56490	56742	56847			
15	QPSK	1	0	17.98	18.07	17.34	17.38	19.2	0	
15	QPSK	1	37	17.74	17.86	17.83	17.76			
15	QPSK	1	74	17.87	17.97	18.04	17.87			
15	QPSK	86	0	17.82	17.94	17.99	17.87			
15	QPSK	86	20	17.78	17.86	17.92	17.79	19.2	0	
15	QPSK	86	37	17.67	17.86	17.34	17.78			
15	QPSK	75	0	17.76	17.89	17.88	17.79			
15	16QAM	1	0	17.62	17.68	17.62	17.61			
15	16QAM	1	37	17.57	17.58	17.46	17.43	19.2	0	
15	16QAM	1	74	17.39	17.68	17.57	17.43			
15	16QAM	58	0	17.54	17.69	17.57	17.57			
15	16QAM	86	20	17.63	17.62	17.48	17.44			
15	16QAM	86	39	17.48	17.59	17.51	17.54	19.2	0	
15	16QAM	75	0	17.43	17.62	17.47	17.43			
15	64QAM	1	0	17.38	17.41	17.31	17.35			
15	64QAM	1	37	17.41	17.51	17.40	17.53			
15	64QAM	1	74	17.20	17.28	17.22	17.23	19.2	0	
15	64QAM	38	0	17.35	17.41	17.35	17.38			
15	64QAM	38	20	17.22	17.38	17.20	17.29			
15	64QAM	86	20	17.20	17.29	17.20	17.20			
15	64QAM	75	0	17.23	17.20	17.20	17.25	18	1.2	
15	256QAM	1	0	18.41	18.37	18.33	18.32			
15	256QAM	1	37	18.20	18.34	18.28	18.26			
15	256QAM	1	74	18.18	18.28	18.20	18.18			
15	256QAM	38	0	18.03	18.12	18.10	18.06			
15	256QAM	86	20	18.07	18.00	18.02	18.05	18	1.2	
15	256QAM	38	39	18.03	18.07	18.03	18.04			
15	256QAM	75	0	18.02	18.06	18.03	18.02			
Channel				56250	56310	56760	56865	Turn-up time (dBm)	MFR (dB)	
Frequency (MHz)				56320	56397.5	56742	56847			
10	QPSK	1	0	17.97	18.16	17.56	18.08	19.2	0	
10	QPSK	1	25	17.78	17.89	17.98	17.81			
10	QPSK	1	49	17.95	17.88	18.00	17.83			
10	QPSK	16	0	17.84	18.04	17.96	17.81			
10	QPSK	25	12	17.77	17.80	17.89	17.79	19.2	0	
10	QPSK	25	25	17.68	17.98	17.94	17.82			
10	QPSK	86	0	17.79	17.86	17.84	17.82			
10	16QAM	1	0	17.63	17.70	17.80	17.62			
10	16QAM	1	25	17.60	17.50	17.44	17.48	19.2	0	
10	16QAM	1	49	17.48	17.60	17.55	17.49			
10	16QAM	25	0	17.58	17.66	17.55	17.51			
10	16QAM	24	16	17.54	17.56	17.46	17.48			
10	16QAM	86	20	17.47	17.58	17.48	17.52	19.2	0	
10	16QAM	50	0	17.38	17.65	17.44	17.48			
10	64QAM	1	0	17.35	17.43	17.30	17.39			
10	64QAM	1	25	17.38	17.53	17.46	17.53			
10	64QAM	1	49	17.49	17.32	17.49	17.24	19.2	0	
10	64QAM	25	0	17.38	17.44	17.38	17.42			
10	64QAM	25	12	17.22	17.38	17.22	17.23			
10	64QAM	25	25	17.22	17.27	17.49	17.27			
10	64QAM	86	0	17.21	17.29	17.24	17.36	18	1.2	
10	256QAM	1	0	18.41	18.41	18.35	18.32			
10	256QAM	1	25	18.20	18.35	18.25	18.26			
10	256QAM	1	49	18.21	18.23	18.25	18.18			
10	256QAM	25	0	18.04	18.11	18.09	18.08	18	1.2	
10	256QAM	25	12	18.00	18.04	18.05	18.04			
10	256QAM	25	25	18.07	18.00	18.04	18.03			
10	256QAM	50	0	18.03	18.03	18.03	18.06			
Channel				56295	56397.5	56742	56847	Turn-up time (dBm)	MFR (dB)	
Frequency (MHz)				56365	56490	56742	56847			
5	QPSK	1	0	17.98	18.13	17.88	18.00	19.2	0	
5	QPSK	1	14	17.91	17.88	17.91	17.79			
5	QPSK	1	24	17.94	18.03	18.07	17.81			
5	QPSK	12	0	17.89	17.99	17.89	17.81			
5	QPSK	12	7	17.91	17.89	17.93	17.80	19.2	0	
5	QPSK	12	13	17.75	17.95	17.91	17.77			
5	QPSK	25	0	17.80	17.97	17.90	17.88			
5	16QAM	1	0	17.63	17.63	17.62	17.59			
5	16QAM	1	12	17.59	17.59	17.47	17.43	19.2	0	
5	16QAM	1	24	17.57	17.61	17.62	17.49			
5	16QAM	12	0	17.58	17.68	17.59	17.52			
5	16QAM	12	7	17.57	17.59	17.42	17.43			
5	16QAM	12	13	17.48	17.60	17.51	17.59	19.2	0	
5	16QAM	25	0	17.37	17.63	17.45	17.42			
5	64QAM	1	0	17.37	17.39	17.26	17.41			
5	64QAM	1	12	17.41	17.50	17.40	17.49			
5	64QAM	1	24	17.20	17.33	17.49	17.27	19.2	0	
5	64QAM	12	0	17.38	17.40	17.32	17.43			
5	64QAM	12	7	17.05	17.35	17.21	17.24			
5	64QAM	12	13	17.50	17.50	17.49	17.49			
5	64QAM	16	0	17.38	17.52	17.31	17.35	18	1.2	
5	256QAM	1	0	18.41	18.35	18.31	18.32			
5	256QAM	1	12	18.20	18.30	18.28	18.21			
5	256QAM	1	24	18.17	18.24	18.20	18.18	18	1.2	
5	256QAM	16	0	18.05	18.11	18.08	18.06			
5	256QAM	12	7	18.00	18.01	18.03	18.00			
5	256QAM	12	13	18.05	18.10	18.02	18.03	18	1.2	
5	256QAM	12	13	18.05	18.10	18.02	18.03			
5	256QAM	12	13	18.05	18.10	18.02	18.03			

GSM 1900 Aired Default							
Tx Channel	Band Average Power (dBm)			Tx Channel	Frame Average Power (dBm)		
	1800.2	1800	1800.8		1800.2	1800	1800.8
Frequency (MHz)	1800.2	1800	1800.8	Limit	1800.2	1800	1800.8
OPHS 1 Tx site	30.09	30.14	30.89	30.30	31.09	31.14	32.89
OPHS 1 Tx site	30.11	30.17	30.95	30.30	31.11	31.17	32.95
OPHS 2 Tx site	27.68	28.02	27.81	29.00	27.68	28.02	27.81
OPHS 3 Tx site	28.49	28.09	28.31	27.50	28.30	28.33	27.50
OPHS 4 Tx site	24.07	24.52	23.97	25.00	24.07	24.52	23.97
EDGE 1 Tx site	23.74	23.00	23.50	25.00	18.74	18.00	18.50
EDGE 2 Tx site	24.08	24.13	23.80	25.00	18.08	18.13	17.80
EDGE 3 Tx site	22.89	23.01	22.76	24.00	18.70	18.75	18.50
EDGE 4 Tx site	23.77	23.03	23.50	23.00	17.77	17.83	18.50

WCDMA II Aired Default							
Tx Channel	Band			Tx Channel	Band		
	3800.2	3800	3800.8		3800.2	3800	3800.8
Frequency (MHz)	3800.2	3800	3800.8	Limit	3800.2	3800	3800.8
SOPP Rel 99	22.09	22.13	22.07	23.80	22.09	22.05	22.81
SOPP Rel 99	22.08	22.15	22.14	23.80	22.81	22.89	22.87
SOPP Rel 6	21.10	21.17	20.00	22.00	21.70	21.04	21.66
SOPP Rel 6	20.90	21.01	21.07	22.00	21.48	21.85	21.60
SOPP Rel 6	20.48	20.73	20.73	22.00	20.54	21.50	22.50
SOPP Rel 6	20.07	20.50	20.57	22.00	21.07	21.50	21.28
SOPP Rel 6	21.42	21.86	20.98	22.00	22.05	22.09	21.68
SOPP Rel 6	21.78	21.03	21.40	22.00	22.05	21.17	21.97
SOPP Rel 6	20.68	20.07	20.70	22.00	21.08	21.50	21.50
SOPP Rel 6	20.00	20.00	20.00	22.00	21.00	21.35	21.40
SOPP Rel 6	21.33	21.07	21.00	22.00	21.92	21.65	22.80
SOPP Rel 6	19.25	19.01	19.04	20.00	19.78	19.50	20.00
SOPP Rel 6	20.13	20.05	20.00	21.00	20.07	20.08	21.00
SOPP Rel 6	19.95	19.11	19.40	20.00	19.54	19.81	20.80
SOPP Rel 6	21.21	21.35	21.13	22.00	21.80	22.10	22.80



Band 2 Ant2 Default														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.24	21.33	21.25	22.3	0						
20	QPSK	1	49	21.17	21.22	21.20								
20	QPSK	1	99	21.18	21.23	21.11								
20	QPSK	50	0	21.19	21.25	21.11	22.3	0						
20	QPSK	50	24	20.96	21.24	21.04								
20	QPSK	50	50	21.12	21.19	20.97								
20	QPSK	100	0	21.07	21.13	21.03	22.3	0						
20	QPSK	100	0	21.15	21.28	21.08								
20	QPSK	1	49	20.98	21.18	21.05								
20	16QAM	1	99	21.16	21.12	21.05	22.3	0						
20	16QAM	50	0	21.01	21.11	20.99								
20	16QAM	50	24	20.89	21.18	20.93								
20	16QAM	50	50	21.02	21.05	20.81	22.3	0						
20	16QAM	100	0	20.99	21.05	20.93								
20	16QAM	1	0	21.04	21.10	21.09								
20	64QAM	1	49	20.96	21.15	20.98	22.3	0						
20	64QAM	50	0	20.95	21.10	20.99								
20	64QAM	50	24	19.94	20.93	19.75								
20	64QAM	50	50	19.78	20.90	19.96	21.5	0.8						
20	64QAM	100	0	19.74	20.16	19.93								
20	256QAM	1	49	18.08	19.02	17.83								
20	256QAM	1	99	18.12	18.00	18.15	19.5	2.8						
20	256QAM	50	0	17.96	18.00	18.07								
20	256QAM	50	24	17.95	17.91	17.92								
20	256QAM	50	50	17.81	18.01	18.08	19.5	2.8						
20	256QAM	100	0	17.85	18.14	18.05								
Channel														
Frequency (MHz)														
16	QPSK	1	0	21.17	21.18	21.18			22.3	0				
16	QPSK	1	37	21.08	21.22	20.99								
16	QPSK	1	74	21.11	21.14	21.06								
16	QPSK	36	0	21.14	21.12	21.03	22.3	0						
16	QPSK	36	36	21.01	21.06	20.95								
16	QPSK	36	39	21.03	21.10	20.97								
16	16QAM	75	0	21.03	21.10	20.97	22.3	0						
16	16QAM	1	0	21.04	21.23	20.95								
16	16QAM	1	37	20.92	21.10	21.01								
16	16QAM	36	20	20.84	21.05	20.82	22.3	0						
16	16QAM	36	20	20.96	20.95	20.87								
16	16QAM	1	0	20.96	21.03	20.97								
16	64QAM	1	37	20.94	21.00	20.92	22.3	0						
16	64QAM	36	20	19.85	19.77	19.81								
16	64QAM	36	20	19.76	19.78	19.82								
16	64QAM	75	0	19.60	19.85	19.70	21.5	0.8						
16	256QAM	1	0	17.86	17.84	17.84								
16	256QAM	1	37	16.05	17.97	17.83								
16	256QAM	1	74	16.05	17.74	17.83	19.5	2.8						
16	256QAM	36	20	17.84	17.84	17.84								
16	256QAM	36	20	17.82	17.87	17.84								
16	256QAM	36	39	17.76	17.82	18.01	19.5	2.8						
16	256QAM	75	0	17.76	17.82	18.01								
16	256QAM	75	0	17.86	17.82	17.86								
Channel														
Frequency (MHz)														
16	QPSK	1	0	21.16	21.18	21.18	22.3	0						
16	QPSK	1	25	21.09	21.24	20.97								
16	QPSK	1	49	21.15	21.12	21.02								
16	QPSK	25	0	21.07	21.14	21.07	22.3	0						
16	QPSK	25	12	20.91	21.12	21.00								
16	QPSK	25	25	21.00	21.13	20.91								
16	16QAM	75	0	21.02	21.09	20.97	22.3	0						
16	16QAM	1	0	21.07	21.19	20.99								
16	16QAM	1	25	20.84	21.11	21.00								
16	16QAM	25	0	20.95	21.05	20.99	22.3	0						
16	16QAM	25	12	20.82	21.13	20.92								
16	16QAM	25	12	20.90	21.01	20.93								
16	16QAM	50	0	20.96	20.92	20.89	22.3	0						
16	16QAM	50	0	20.90	21.08	21.05								
16	16QAM	1	24	20.84	21.12	20.94								
16	64QAM	1	49	20.84	21.06	20.92	21.5	0.8						
16	64QAM	25	0	19.79	19.87	19.74								
16	64QAM	25	12	19.81	19.94	19.81								
16	64QAM	25	25	19.55	19.94	19.81	19.5	2.8						
16	64QAM	50	0	19.52	19.88	19.75								
16	256QAM	1	0	17.78	17.83	17.85								
16	256QAM	1	25	17.84	17.79	17.78	19.5	2.8						
16	256QAM	1	49	17.92	17.75	17.88								
16	256QAM	25	0	17.78	17.83	17.85								
16	256QAM	25	12	17.81	17.76	17.81	19.5	2.8						
16	256QAM	25	25	17.67	17.97	18.03								
16	256QAM	50	0	17.81	18.02	17.83								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.13	21.13	21.13	22.3	0						
5	QPSK	1	12	21.06	21.22	21.05								
5	QPSK	1	24	21.11	21.18	21.01								
5	QPSK	12	0	21.14	21.17	21.04	22.3	0						
5	QPSK	12	7	21.08	21.16	20.92								
5	QPSK	12	13	21.04	21.13	20.85								
5	QPSK	25	0	21.03	21.09	20.93	22.3	0						
5	16QAM	1	0	21.13	21.19	20.96								
5	16QAM	1	12	20.98	21.12	20.93								
5	16QAM	1	24	21.03	21.02	20.91	22.3	0						
5	16QAM	12	0	20.91	21.08	20.92								
5	16QAM	12	7	20.77	21.14	20.79								
5	16QAM	12	13	20.88	20.90	20.77	22.3	0						
5	16QAM	25	0	20.88	20.95	20.84								
5	16QAM	1	0	21.00	20.96	21.03								
5	64QAM	1	0	20.93	21.05	20.97	22.3	0						
5	64QAM	1	24	20.85	21.01	20.94								
5	64QAM	12	0	19.67	19.90	19.68								
5	64QAM	12	7	19.78	19.90	19.68	21.5	0.8						
5	64QAM	12	13	19.61	19.82	19.76								
5	64QAM	25	0	19.67	19.91	19.73								
5	256QAM	1	0	17.93	18.01	17.82	19.5	2.8						
5	256QAM	1	12	17.90	17.85	17.71								
5	256QAM	1	24	17.99	17.84	17.94								
5														



Band 25 Ant2 DSI 3														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.30	21.40	21.24	23.3	0						
20	QPSK	1	49	21.20	21.30	21.16								
20	QPSK	1	99	21.21	21.26	21.13								
20	QPSK	50	0	21.24	21.33	21.19								
20	QPSK	50	24	21.02	21.29	21.10	23.3	0						
20	QPSK	50	50	21.18	21.27	21.08								
20	16QAM	1	49	21.07	21.26	21.09								
20	16QAM	1	99	21.19	21.17	21.09								
20	16QAM	50	0	21.10	21.29	21.12	23.3	0						
20	16QAM	50	24	20.93	21.29	21.04								
20	16QAM	50	50	21.08	21.19	21.04								
20	64QAM	1	0	21.14	21.23	21.15								
20	64QAM	1	49	21.09	21.26	21.05	23.3	0						
20	64QAM	1	99	21.03	21.16	21.03								
20	64QAM	50	0	20.15	20.14	20.11								
20	64QAM	50	24	19.80	20.16	19.90								
20	64QAM	50	50	20.00	20.11	19.91	21.5	0.8						
20	256QAM	1	49	18.05	18.20	18.00								
20	256QAM	1	99	17.87	18.08	17.97								
20	256QAM	50	24	17.99	18.04	18.00								
20	256QAM	50	50	17.88	18.08	17.89	19.5	2.8						
20	256QAM	100	0	17.90	17.99	17.89								
Channel														
Frequency (MHz)														
15	QPSK	1	0	21.20	21.24	21.18	23.3	0						
15	QPSK	1	49	21.17	21.23	21.09								
15	QPSK	1	74	21.12	21.22	21.05								
15	QPSK	36	0	21.13	21.24	21.11								
15	QPSK	36	24	20.90	21.22	21.08	23.3	0						
15	QPSK	36	36	21.14	21.20	20.97								
15	QPSK	75	0	21.08	21.16	20.96								
15	16QAM	1	0	21.17	21.32	21.12								
15	16QAM	1	37	21.02	21.23	20.98	23.3	0						
15	16QAM	1	74	21.07	21.22	20.97								
15	16QAM	36	0	21.05	21.12	20.99								
15	16QAM	36	20	20.85	21.13	20.91								
15	16QAM	36	20	20.85	21.13	20.91	23.3	0						
15	16QAM	75	0	21.04	21.10	21.01								
15	64QAM	1	0	20.67	20.98	20.96								
15	64QAM	1	49	20.70	20.99	20.97								
15	64QAM	1	74	20.95	20.96	20.91	21.5	0.8						
15	64QAM	36	0	20.08	19.98	19.98								
15	64QAM	36	20	19.76	19.99	19.97								
15	64QAM	36	36	19.90	20.00	19.76								
15	64QAM	75	0	20.01	19.86	19.76	19.5	2.8						
15	256QAM	1	0	17.90	17.93	17.83								
15	256QAM	1	37	17.79	18.13	17.90								
15	256QAM	1	74	17.75	17.84	17.92								
15	256QAM	36	0	17.82	17.87	17.87	19.5	2.8						
15	256QAM	36	20	17.80	17.84	17.77								
15	256QAM	36	36	17.74	18.00	17.73								
15	256QAM	75	0	17.74	18.00	17.83								
Channel														
Frequency (MHz)														
10	QPSK	1	0	21.18	21.28	21.16	23.3	0						
10	QPSK	1	25	21.12	21.23	21.15								
10	QPSK	1	49	21.08	21.28	21.09								
10	QPSK	25	0	21.12	21.28	21.10								
10	QPSK	25	12	20.91	21.19	21.01	23.3	0						
10	QPSK	25	25	21.07	21.20	21.00								
10	QPSK	50	0	21.08	21.24	21.06								
10	16QAM	1	0	21.08	21.22	21.14								
10	16QAM	1	25	20.94	21.23	21.06	23.3	0						
10	16QAM	1	49	21.07	21.09	20.90								
10	16QAM	25	0	21.06	21.10	20.99								
10	16QAM	25	12	20.89	21.09	20.92								
10	16QAM	25	12	20.88	21.09	20.87	23.3	0						
10	16QAM	50	0	21.07	21.04	20.94								
10	64QAM	1	0	20.90	21.20	21.11								
10	64QAM	1	25	20.94	21.19	21.08								
10	64QAM	1	49	20.98	21.00	20.97	21.5	0.8						
10	64QAM	25	0	19.99	20.01	19.97								
10	64QAM	25	12	19.76	20.03	19.88								
10	64QAM	50	0	19.98	19.97	19.94								
10	256QAM	1	0	18.11	18.05	17.85	19.5	2.8						
10	256QAM	1	25	17.99	18.03	17.75								
10	256QAM	1	49	17.85	17.95	17.73								
10	256QAM	25	0	17.82	17.87	17.87								
10	256QAM	25	12	17.77	17.77	17.84	19.5	2.8						
10	256QAM	25	25	17.82	17.88	17.81								
10	256QAM	50	0	17.86	17.82	18.02								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.23	21.29	21.11	23.3	0						
5	QPSK	1	12	21.10	21.26	21.16								
5	QPSK	1	24	21.15	21.24	21.09								
5	QPSK	12	0	21.16	21.27	21.10								
5	QPSK	12	7	20.91	21.20	21.05	23.3	0						
5	QPSK	12	13	21.08	21.20	21.01								
5	QPSK	25	0	21.08	21.24	21.06								
5	16QAM	1	0	21.11	21.31	21.15								
5	16QAM	1	12	20.97	21.23	21.06	23.3	0						
5	16QAM	1	24	21.12	21.09	21.01								
5	16QAM	12	0	20.97	21.19	21.01								
5	16QAM	12	7	20.84	21.11	20.97								
5	16QAM	12	13	21.06	21.03	20.96	23.3	0						
5	16QAM	25	0	21.06	21.03	20.96								
5	64QAM	1	0	20.97	21.19	20.97								
5	64QAM	1	12	20.89	21.08	20.92								
5	64QAM	1	24	20.90	21.08	20.97	21.5	0.8						
5	64QAM	12	0	19.99	20.02	19.94								
5	64QAM	12	13	19.78	19.97	19.78								
5	64QAM	12	13	19.82	20.04	19.83								
5	64QAM	25	0	20.04	20.07	19.79	19.5	2.8						
5	256QAM	1	0	18.13	18.11	17.91								
5	256QAM	1	12	17.93	18.01	17.91								
5	256QAM	1	24	17.71	17.83	17.75								
5	256QAM	12	0	17.94	17.82	17.88	19.5	2.8						
5	256QAM	12	7	17.87	17.99	17.81								
5	256QAM	12	13	17.87	17.86	17.81								
5	256QAM	25	0	17.84	18.00	17.82								



Band 38 Ant2 DSI 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)	MPE (dB)			
Channel											
Frequency (MHz)				39760	39800	39850					
20	QPSK	1	0	21.25	21.31	21.23	22.6	0			
20	QPSK	1	49	21.27	21.28	21.18					
20	QPSK	1	99	21.23	21.26	21.26					
20	QPSK	50	0	20.33	20.50	20.40					
20	QPSK	50	24	20.29	20.34	20.34	22	0.6			
20	QPSK	50	49	20.21	20.30	20.38					
20	QPSK	100	0	20.40	20.45	20.29					
20	16QAM	1	0	20.29	20.31	20.26					
20	16QAM	1	49	20.21	20.30	20.18	22	0.6			
20	16QAM	1	99	20.21	20.22	20.27					
20	16QAM	50	0	19.24	19.30	19.24					
20	16QAM	50	24	19.15	19.34	19.27					
20	16QAM	50	50	19.12	19.27	19.23	21	1.6			
20	16QAM	100	0	19.27	19.28	19.30					
20	16QAM	100	1	0	19.15	19.40					
20	8QAM	1	49	19.30	19.38	19.32					
20	8QAM	1	99	19.32	19.39	19.31	21	1.6			
20	8QAM	50	0	18.30	18.39	18.25					
20	8QAM	50	24	18.20	18.32	18.23					
20	8QAM	50	50	18.24	18.31	18.23					
20	8QAM	100	0	18.29	18.38	18.32	20	2.6			
20	25QAM	1	0	18.23	18.33	18.31					
20	25QAM	1	49	18.23	18.33	18.17					
20	25QAM	1	99	18.27	18.31	18.29					
20	25QAM	50	0	18.26	18.33	18.34	18	4.6			
20	25QAM	50	24	18.23	18.34	18.26					
20	25QAM	50	49	18.18	18.31	18.26					
20	25QAM	100	0	18.26	18.33	18.30					
Channel											
Frequency (MHz)				39765	39805	39815	Time-up Int (dBm)	MPE (dB)			
15	QPSK	1	0	21.23	21.23	21.15	22.6	0			
15	QPSK	1	37	21.18	21.21	21.07					
15	QPSK	1	74	21.20	21.20	21.20					
15	QPSK	36	0	20.21	20.25	20.24					
15	QPSK	36	20	20.21	20.25	20.24	22	0.6			
15	QPSK	36	37	20.20	20.23	20.17					
15	QPSK	75	0	20.28	20.41	20.19					
15	16QAM	1	0	20.23	20.26	20.21					
15	16QAM	1	37	20.19	20.23	20.18	22	0.6			
15	16QAM	1	74	20.12	20.16	20.20					
15	16QAM	36	0	19.18	19.21	19.28					
15	16QAM	36	20	19.19	19.22	19.23					
15	16QAM	36	39	19.05	19.22	19.15	21	1.6			
15	16QAM	75	0	19.15	19.29	19.18					
15	16QAM	75	0	19.20	19.34	19.23					
15	16QAM	1	37	19.18	19.31	19.27					
15	8QAM	1	74	19.16	19.36	19.22	20	2.6			
15	8QAM	1	49	19.20	19.31	19.18					
15	8QAM	36	20	18.14	18.21	18.10					
15	8QAM	36	39	18.20	18.27	18.11					
15	8QAM	75	0	19.18	19.32	19.21	18	4.6			
15	25QAM	1	0	18.15	18.27	18.25					
15	25QAM	1	37	18.17	18.25	18.18					
15	25QAM	1	74	18.23	18.23	18.18					
15	25QAM	36	0	18.14	18.26	18.21	18	4.6			
15	25QAM	36	20	18.27	18.27	18.15					
15	25QAM	36	39	18.14	18.26	18.21					
15	25QAM	75	0	18.19	18.36	18.24					
Channel											
Frequency (MHz)				39760	39800	39800	Time-up Int (dBm)	MPE (dB)			
10	QPSK	1	0	21.23	21.23	21.15	22.6	0			
10	QPSK	1	25	21.23	21.23	21.13					
10	QPSK	1	49	21.13	21.19	21.10					
10	QPSK	25	0	20.30	20.44	20.30					
10	QPSK	25	13	20.17	20.30	20.22	22	0.6			
10	QPSK	25	25	20.19	20.31	20.22					
10	QPSK	50	0	20.28	20.42	20.20					
10	16QAM	1	0	20.20	20.23	20.14					
10	16QAM	1	0	20.20	20.23	20.16	22	0.6			
10	16QAM	1	25	20.12	20.28	20.10					
10	16QAM	1	49	20.11	20.17	20.19					
10	16QAM	25	0	19.18	19.27	19.26					
10	16QAM	25	12	19.15	19.24	19.15	21	1.6			
10	16QAM	25	25	19.05	19.16	19.18					
10	16QAM	50	0	19.15	19.32	19.23					
10	8QAM	1	49	19.27	19.37	19.10					
10	8QAM	1	0	19.27	19.37	19.10	21	1.6			
10	8QAM	12	0	19.14	19.20	19.22					
10	8QAM	12	7	19.07	19.30	19.15					
10	8QAM	12	13	19.01	19.24	19.20					
10	8QAM	25	0	19.23	19.26	19.28	21	1.6			
10	8QAM	25	0	19.26	19.30	19.21					
10	8QAM	12	0	18.29	18.30	18.19					
10	8QAM	12	7	18.02	18.28	18.14					
10	8QAM	25	0	18.29	18.30	18.25	20	2.6			
10	8QAM	25	12	18.30	18.30	18.20					
10	8QAM	25	12	18.30	18.30	18.20					
10	8QAM	25	12	18.30	18.30	18.20					
5	25QAM	1	0	18.10	18.20	18.21	18	4.6			
5	25QAM	1	12	18.23	18.20	18.07					
5	25QAM	1	24	18.15	18.10	18.17					
5	25QAM	12	0	18.13	18.26	18.23					
5	25QAM	12	7	18.15	18.28	18.20	18	4.6			
5	25QAM	12	13	18.15	18.23	18.20					
5	25QAM	25	0	18.26	18.29	18.26					
5	25QAM	25	0	18.26	18.29	18.26					

Band 41 Ant2 DSI 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (ms)	MFR (dB)	
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
20	QPSK	1	0	21.16	21.10	21.00	21.23	21.05	22.6	0	
20	QPSK	1	49	20.96	20.95	21.17	21.08	21.01			
20	QPSK	50	99	21.01	20.94	21.14	21.02	20.87			
20	QPSK	50	99	21.01	20.94	21.14	21.02	20.87			
20	QPSK	50	24	20.98	20.94	21.01	21.00	20.93			
20	QPSK	50	24	20.98	20.94	21.01	21.00	20.93			
20	QPSK	100	0	21.05	21.01	21.04	21.12	20.97			
20	QPSK	100	0	21.05	21.01	21.04	21.12	20.97			
20	16QAM	1	0	21.07	21.07	21.23	21.14	21.07			
20	16QAM	1	49	20.84	20.84	21.00	20.91	20.83			
20	16QAM	1	99	20.80	21.03	21.23	21.10	20.81			
20	16QAM	50	0	21.10	21.10	21.21	21.16	21.01			
20	16QAM	50	49	21.07	21.05	21.19	21.08	20.93			
20	16QAM	50	50	21.01	21.56	21.21	21.04	20.97			
20	16QAM	100	0	20.77	20.85	21.01	20.97	20.71			
20	16QAM	100	0	21.06	21.06	21.13	21.08	20.93			
20	64QAM	1	49	21.07	21.10	21.22	20.99	20.85			
20	64QAM	1	99	20.83	21.03	21.23	21.09	20.83			
20	64QAM	50	0	20.20	20.20	20.30	20.17	20.08			
20	64QAM	50	24	19.99	20.10	20.26	20.11	20.05			
20	64QAM	50	24	19.99	20.10	20.26	20.11	20.05			
20	64QAM	100	0	20.21	20.94	20.37	20.07	20.01			
20	256QAM	1	49	18.14	18.10	18.31	18.11	18.06			
20	256QAM	1	99	17.96	18.03	18.21	18.00	17.91			
20	256QAM	1	99	17.88	18.06	18.06	18.16	17.87			
20	256QAM	50	0	18.00	18.17	18.17	18.11	18.03			
20	256QAM	50	24	17.85	17.95	18.05	18.00	17.82			
20	256QAM	50	50	18.00	18.00	18.05	17.95	17.88			
20	256QAM	100	0	17.99	18.16	18.16	18.10	18.03			
Channel											
Frequency (MHz)				39750	40173	40620	41055	41511	Turn-up time (ms)	MFR (dB)	
5	QPSK	1	0	21.11	21.08	21.03	21.27	21.04	22.6	0	
5	QPSK	1	37	20.84	20.90	21.13	21.01	20.88			
5	QPSK	1	74	20.80	20.87	21.01	20.91	20.82			
5	QPSK	25	0	20.93	21.02	21.10	21.13	21.04			
5	QPSK	25	12	20.90	20.88	21.11	21.03	20.95			
5	QPSK	25	12	20.84	20.90	21.03	20.98	20.89			
5	QPSK	75	0	20.95	20.88	21.13	21.04	20.80			
5	16QAM	1	0	20.99	21.04	21.15	21.08	21.01			
5	16QAM	1	37	20.80	21.08	21.20	21.01	20.84			
5	16QAM	1	74	20.87	20.91	21.15	20.88	20.67			
5	16QAM	25	0	21.07	20.98	21.13	21.04	21.19			
5	16QAM	25	12	20.97	20.92	21.10	20.97	21.19			
5	16QAM	25	39	20.92	20.92	21.15	21.01	20.90			
5	16QAM	75	0	20.95	20.88	21.13	21.04	20.87			
5	64QAM	1	0	20.97	20.99	21.09	20.98	21.07			
5	64QAM	1	37	20.93	20.24	21.11	20.99	20.85			
5	64QAM	1	74	20.78	20.78	21.00	20.81	20.77			
5	64QAM	25	0	20.20	20.11	20.20	19.91	19.83			
5	64QAM	25	12	19.78	19.84	20.07	19.86	19.99			
5	64QAM	25	39	19.78	19.84	20.07	19.86	19.99			
5	64QAM	75	0	20.09	19.82	20.14	19.87	19.90			
5	256QAM	1	0	17.87	17.86	17.94	17.86	17.86			
5	256QAM	1	37	17.77	17.88	18.01	18.04	17.86			
5	256QAM	1	74	17.67	17.86	17.92	18.05	17.78			
5	256QAM	25	0	17.86	17.86	17.92	17.86	17.86			
5	256QAM	25	12	17.82	17.86	18.00	17.96	17.77			
5	256QAM	25	39	17.91	17.84	17.92	17.96	17.87			
5	256QAM	75	0	17.71	17.83	18.01	18.01	17.86			
Channel											
Frequency (MHz)				39670	40160	40620	41055	41540	Turn-up time (ms)	MFR (dB)	
5	QPSK	1	0	21.11	21.08	21.03	21.27	21.04	22.6	0	
5	QPSK	1	25	20.90	20.81	21.13	21.05	20.94			
5	QPSK	1	74	20.80	20.87	21.01	20.91	20.82			
5	QPSK	25	0	20.93	21.10	21.12	21.04	21.07			
5	QPSK	25	12	20.87	20.89	21.07	21.05	20.81			
5	QPSK	25	12	20.84	20.90	21.03	20.98	20.89			
5	QPSK	60	0	20.95	20.92	21.11	21.08	20.81			
5	16QAM	1	0	21.05	20.99	21.16	21.05	21.15			
5	16QAM	1	25	20.90	21.08	21.20	21.01	20.87			
5	16QAM	1	49	20.72	20.95	21.20	20.95	20.73			
5	16QAM	25	0	21.04	21.05	21.10	21.14	21.17			
5	16QAM	25	12	21.02	21.02	21.10	20.98	21.07			
5	16QAM	25	25	20.91	20.87	21.08	20.91	20.86			
5	16QAM	25	25	20.88	20.90	21.08	20.91	20.86			
5	64QAM	1	0	21.01	21.08	21.14	20.93	21.17			
5	64QAM	1	25	20.88	21.04	21.10	20.93	20.91			
5	64QAM	1	74	20.80	20.82	21.00	20.81	20.72			
5	64QAM	25	0	19.69	20.14	20.14	20.10	19.62			
5	64QAM	25	12	19.75	20.03	20.10	19.98	19.98			
5	64QAM	25	12	19.87	20.06	20.10	19.97	19.88			
5	64QAM	25	0	20.11	19.84	20.27	19.85	19.91			
5	64QAM	25	12	19.68	19.71	19.87	19.81	19.61			
5	256QAM	1	25	17.91	17.91	18.04	18.07	17.76			
5	256QAM	1	49	17.84	17.88	17.88	18.06	17.76			
5	256QAM	1	74	17.82	17.88	17.88	17.96	17.76			
5	256QAM	25	12	17.72	17.82	18.07	17.83	17.70			
5	256QAM	25	25	17.86	17.85	18.01	17.76	17.69			
5	256QAM	60	0	17.84	17.84	17.86	17.80	17.75			
Channel											
Frequency (MHz)				39670	40145	40620	41055	41560	Turn-up time (ms)	MFR (dB)	
5	QPSK	1	0	21.10	20.98	21.00	21.20	21.05	22.6	0	
5	QPSK	1	12	20.88	20.88	21.07	21.08	20.95			
5	QPSK	1	24	20.81	20.84	21.00	20.97	20.79			
5	QPSK	12	0	21.05	20.99	21.20	21.02	21.09			
5	QPSK	12	7	20.89	20.83	21.10	20.93	20.90			
5	QPSK	25	0	20.93	21.02	21.10	21.02	20.84			
5	QPSK	25	0	20.95	20.89	21.13	21.08	20.74			
5	16QAM	1	0	20.98	20.95	21.09	21.04	21.07			
5	16QAM	1	12	20.89	20.92	21.07	20.97	20.84			
5	16QAM	1	24	20.71	20.87	21.21	20.90	21.07			
5	16QAM	12	0	21.08	21.02	21.11	21.04	21.16			
5	16QAM	12	7	21.00	20.92	21.14	20.98	21.11			
5	16QAM	12	13	20.93	20.82	21.18	20.99	20.83			
5	64QAM	1	0	20.75	20.86	21.00	20.88	20.81			
5	64QAM	1	12	21.03	21.09	21.11	21.02	21.07			
5	64QAM	1	12	20.91	21.00	21.10	20.88	20.92			
5	64QAM	1	24	20.73	21.01	21.10	20.84	20.76			
5	64QAM	12	0	19.15	20.03	20.24	19.92	20.00			
5	64QAM	12	13	19.75	20.04	20.19	19.98	19.94			
5	64QAM	12	13	19.87	20.03	20.19	19.98	19.94			
5	64QAM	25	0	20.12	19.77	20.14	19.68	19.84			
5	256QAM	1	12	17.82	17.82	17.87	17.82	17.83			
5	256QAM	12	7	17.75	17.95	18.16	18.10	17.78			
5	256QAM	1	24	17.80	17.86	17.84	17.81	17.71			
5	256QAM	1	24	17.80	17.86	17.86	17.80	17.78			
5	256QAM	12	7	17.72	17.71	17.89	17.87	17.78			
5	256QAM	12	13	17.82	17.85	17.96	17.87	17.89			



Band 48_FCC Ant2 DSI 3											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power Mid Ch / Freqs	Power High Ch / Freqs	Power High Ch / Freqs	Turn-up time (dBm)	MFR (dB)		
Channel				56500	56600	56700	56800				
Frequency (MHz)				56500	56600	56700	56800				
20	QPSK	1	0	19.22	19.40	19.24	19.12	21	0		
20	QPSK	1	49	19.20	19.38	19.20	19.07				
20	QPSK	1	99	19.18	19.28	19.16	19.04				
20	QPSK	50	0	19.23	19.26	19.20	19.01				
20	QPSK	50	24	19.18	19.22	19.08	19.04	21	0		
20	QPSK	50	50	19.17	19.21	19.11	19.02				
20	QPSK	100	0	19.19	19.26	19.12	19.01				
20	16QAM	1	0	19.26	19.30	19.33	19.22	21	0		
20	16QAM	1	49	19.25	19.27	19.23	19.20				
20	16QAM	1	99	19.20	19.20	19.26	19.26				
20	16QAM	50	0	19.22	19.31	19.20	19.23				
20	16QAM	50	24	19.18	19.22	19.13	19.11	21	0		
20	16QAM	50	50	19.16	19.21	19.14	19.13				
20	64QAM	100	0	19.16	19.27	19.16	19.10				
20	64QAM	1	0	19.15	19.22	19.20	19.26	21	0		
20	64QAM	1	49	19.13	19.13	19.08	19.12				
20	64QAM	1	99	19.03	19.14	19.11	19.05				
20	64QAM	50	0	19.22	19.34	19.27	19.18	20	1		
20	64QAM	50	24	19.26	19.36	19.17	19.12				
20	64QAM	50	50	19.25	19.25	19.16	19.15				
20	64QAM	100	0	19.26	19.24	19.07	19.19				
20	256QAM	1	0	19.27	19.35	19.20	19.12	18	3		
20	256QAM	1	49	19.27	19.33	19.12	19.09				
20	256QAM	1	99	19.30	19.31	19.17	19.09				
20	256QAM	50	0	19.24	19.43	19.18	19.09				
20	256QAM	50	24	19.20	19.35	19.23	19.12	18	3		
20	256QAM	50	50	19.28	19.32	19.14	19.05				
20	256QAM	100	0	19.14	19.22	19.06	19.12				
Channel				56315	56400	56500	56600	Turn-up time (dBm)	MFR (dB)		
Frequency (MHz)				56315	56400	56500	56600				
15	QPSK	1	0	19.14	19.33	19.19	19.05	21	0		
15	QPSK	1	37	19.18	19.28	19.13	19.08				
15	QPSK	1	74	19.07	19.20	19.11	19.02				
15	QPSK	86	0	19.19	19.26	19.13	19.03				
15	QPSK	86	20	19.08	19.14	19.02	19.01	21	0		
15	16QAM	1	0	19.10	19.13	19.04	19.08				
15	QPSK	75	0	19.12	19.22	19.08	19.08				
15	16QAM	1	0	19.19	19.20	19.31	19.15	21	0		
15	16QAM	1	37	19.26	19.24	19.14	19.13				
15	16QAM	1	74	19.20	19.21	19.25	19.23				
15	16QAM	58	0	19.21	19.27	19.14	19.21				
15	16QAM	86	20	19.14	19.12	19.04	19.05	21	0		
15	16QAM	86	59	19.06	19.17	19.11	19.05				
15	16QAM	75	0	19.06	19.18	19.08	19.01				
15	64QAM	1	0	19.11	19.14	19.12	19.21	21	0		
15	64QAM	1	37	19.06	19.11	19.06	19.07				
15	64QAM	1	74	19.03	19.09	19.07	19.02				
15	64QAM	86	0	19.11	19.31	19.21	19.13	20	1		
15	64QAM	58	20	19.24	19.34	19.14	19.09				
15	64QAM	86	59	19.22	19.27	19.06	19.07				
15	64QAM	75	0	19.20	19.15	19.02	19.05	18	3		
15	256QAM	1	0	19.26	19.29	19.17	19.05				
15	256QAM	1	37	19.21	19.28	19.01	19.05				
15	256QAM	1	74	19.21	19.22	19.13	19.04				
15	256QAM	58	0	19.16	19.41	19.17	19.08	18	3		
15	256QAM	86	20	19.16	19.33	19.14	19.03				
15	256QAM	86	59	19.25	19.30	19.04	19.09				
15	256QAM	75	0	19.04	19.40	19.02	19.02	18	3		
15	256QAM	100	0	19.14	19.22	19.06	19.12				
15	256QAM	100	0	19.14	19.22	19.06	19.12				
Channel				56250	56315	56400	56500	Turn-up time (dBm)	MFR (dB)		
Frequency (MHz)				56250	56315	56400	56500				
10	QPSK	1	0	19.12	19.32	19.15	19.08	21	0		
10	QPSK	1	25	19.16	19.27	19.15	19.05				
10	QPSK	1	49	19.14	19.18	19.11	19.06				
10	QPSK	25	0	19.19	19.21	19.13	19.06				
10	QPSK	25	12	19.14	19.14	19.02	19.00	21	0		
10	QPSK	25	25	19.09	19.14	19.04	19.05				
10	QPSK	50	0	19.14	19.18	19.07	19.00				
10	16QAM	1	0	19.26	19.28	19.31	19.11	21	0		
10	16QAM	1	25	19.23	19.24	19.21	19.14				
10	16QAM	1	49	19.26	19.24	19.20	19.20				
10	16QAM	25	0	19.13	19.22	19.16	19.17				
10	16QAM	25	12	19.12	19.19	19.10	19.08	21	0		
10	16QAM	25	25	19.04	19.16	19.05	19.05				
10	16QAM	50	0	19.11	19.26	19.18	19.04				
10	64QAM	1	0	19.14	19.20	19.09	19.23	21	0		
10	64QAM	1	25	19.11	19.12	19.08	19.04				
10	64QAM	1	49	19.08	19.03	19.05	19.06				
10	64QAM	25	0	19.12	19.25	19.20	19.13				
10	64QAM	25	12	19.16	19.27	19.12	19.06	20	1		
10	64QAM	25	25	19.18	19.14	19.05	19.05				
10	64QAM	50	0	19.25	19.22	19.00	19.09				
10	256QAM	1	0	19.24	19.31	19.17	19.02				
10	256QAM	1	25	19.16	19.23	19.04	19.05	18	3		
10	256QAM	1	49	19.22	19.30	19.13	19.07				
10	256QAM	25	0	19.20	19.37	19.12	19.02				
10	256QAM	25	12	19.17	19.19	19.14	19.08				
10	256QAM	25	25	19.17	19.25	19.12	19.05	18	3		
10	256QAM	50	0	19.03	19.18	19.05	19.03				
Channel				56025	56100	56200	56300	Turn-up time (dBm)	MFR (dB)		
Frequency (MHz)				56025	56100	56200	56300				
5	QPSK	1	0	19.12	19.36	19.17	19.03	21	0		
5	QPSK	1	12	19.16	19.30	19.15	19.03				
5	QPSK	1	24	19.11	19.23	19.09	19.03				
5	QPSK	12	0	19.17	19.21	19.19	19.03				
5	QPSK	12	7	19.04	19.14	19.05	19.01	21	0		
5	QPSK	12	19	19.13	19.17	19.01	19.06				
5	QPSK	25	0	19.16	19.16	19.03	19.09				
5	QPSK	25	0	19.16	19.16	19.03	19.09				
5	QPSK	1	0	19.27	19.24	19.24	19.17	21	0		
5	16QAM	1	12	19.18	19.19	19.15	19.14				
5	16QAM	1	24	19.21	19.26	19.20	19.23				
5	16QAM	12	0	19.14	19.21	19.11	19.19	21	0		
5	16QAM	12	7	19.16	19.15	19.0	19.19				
5	16QAM	12	19	19.15	19.15	19.0	19.19				
5	16QAM	12	13	19.04	19.11	19.12	19.03	21	0		
5	16QAM	1	0	19.11	19.21	19.23	19.13				
5	16QAM	1	12	19.04	19.04	19.00	19.06				
5	16QAM	1	24	19.04	19.04	19.00	19.06				
5	16QAM	12	13	19.18	19.25	19.18	19.05	20	1		
5	16QAM	12	19	19.19	19.23	19.01	19.14				
5	16QAM	25	0	19.23	19.19	19.05	19.07				
5	256QAM	1	0	19.23	19.30	19.15	19.05	18	3		
5	256QAM	1	12	19.17	19.29	19.09	19.05				
5	256QAM	1	24	19.24	19.21	19.12	19.02				
5	256QAM	12	0	19.21	19.32	19.12	19.02				
5	256QAM	12	7	19.17	19.32	19.13	19.05	18	3		
5	256QAM	12	13	19.16	19.29	19.10	19.04				
5	256QAM	12	19	19.17	19.17	19.02	19.05				



GDM1900 A43 Default											
GDM1900		Band Average Power (dBm)			Tune-up		From Average Power (dBm)			Tune-up	
Tx Channel		1852.2	1861	1870	Limit	1852.2	1861	1870	Limit		
Frequency (MHz)		1850.2	1860	1869.8	(dBm)	1850.2	1860	1869.8	(dBm)		
DME Tx watt		28.15	28.26	28.13	29.70	18.15	18.26	18.13	20.70		
GPRM 1 Tx watt		18.30	20.32	18.13	20.70	18.30	18.32	18.13	20.70		
GPRM 2 Tx watt		22.23	21.33	22.31	25.35	18.25	18.33	19.31	20.70		
GPRM 3 Tx watt		24.14	24.27	24.02	25.00	18.08	20.01	18.81	20.14		
GPRM 4 Tx watt		22.48	22.57	22.48	23.70	18.48	18.57	18.48	20.70		
EDGE 1 Tx watt		23.59	24.02	23.59	26.00	17.59	17.92	17.59	18.00		
EDGE 2 Tx watt		24.86	24.01	24.82	26.00	18.86	18.91	18.82	20.00		
EDGE 3 Tx watt		23.78	23.83	23.74	24.50	18.52	18.57	18.48	20.24		
EDGE 4 Tx watt		21.02	21.09	21.02	22.50	18.08	18.08	18.02	19.50		
WCDMA II A43 DSB 3											
Band		WCDMA II		Tune-up		WCDMA IV		Tune-up			
Tx Channel		1852.2	1861	1870	Limit	1712.2	1719	1728	Limit		
Frequency (MHz)		1850.2	1860	1869.8	(dBm)	1710.2	1718	1728	(dBm)		
SCPP Rel 99		18.53	19.44	18.44	21.00	18.37	18.41	19.22	21.00		
SCPP Rel 99		18.39	18.59	18.48	21.00	18.42	18.53	18.42	21.00		
SCPP Rel 6		18.59	18.43	18.51	20.00	18.54	18.28	18.52	20.00		
SCPP Rel 6		18.38	18.47	18.42	20.00	18.52	18.42	18.37	20.00		
SCPP Rel 6		17.01	18.04	17.87	18.90	17.01	18.90	17.01	18.90		
SCPP Rel 6		17.02	18.34	18.05	19.95	17.05	18.11	17.03	19.95		
SCPP Rel 8		18.40	18.35	18.22	20.00	18.39	18.35	18.28	20.00		
SCPP Rel 8		18.40	18.34	18.42	20.00	18.34	18.51	18.45	20.00		
SCPP Rel 8		17.06	18.03	17.03	18.90	17.02	18.00	17.03	18.90		
SCPP Rel 8		17.06	18.01	18.01	18.90	17.06	18.04	17.03	18.90		
SCPP Rel 6		18.38	18.34	18.32	20.00	18.31	18.32	18.32	20.00		
SCPP Rel 6		18.29	18.58	18.40	18.00	18.40	18.33	18.41	18.00		
SCPP Rel 8		17.02	17.00	17.00	19.00	17.04	17.05	17.04	19.00		
SCPP Rel 6		18.55	18.51	18.40	18.00	18.41	18.82	18.31	20.00		

Band 2 Ant3 Default														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APRS (dB)						
Channel														
Frequency (MHz)				1800	1800	1800								
20	QPSK	1	0	18.35	18.40	18.27	19.7	0						
20	QPSK	1	49	18.03	18.01	18.06								
20	QPSK	1	99	18.19	18.12	18.06								
20	QPSK	50	0	18.10	18.25	18.04								
20	QPSK	50	24	18.00	18.00	18.06	19.7	0						
20	QPSK	50	50	17.88	18.19	17.98								
20	QPSK	100	0	18.01	18.21	18.01								
20	16QAM	50	0	18.32	18.31	18.07								
20	16QAM	1	49	18.05	18.05	17.88	19.7	0						
20	16QAM	1	99	18.22	17.94	17.93								
20	16QAM	50	0	17.92	18.19	17.94								
20	16QAM	50	24	17.82	17.94	17.90								
20	16QAM	50	50	17.78	18.05	18.04	19.7	0						
20	16QAM	100	0	17.94	18.05	17.84								
20	84QAM	1	0	18.09	18.30	18.18								
20	84QAM	1	49	18.00	18.05	17.81								
20	84QAM	1	99	18.10	18.04	17.91	19.7	0						
20	84QAM	50	0	18.11	18.21	17.94								
20	84QAM	50	24	17.88	17.97	17.76								
20	84QAM	50	50	17.82	17.95	17.92								
20	84QAM	100	0	17.98	18.07	17.83	19.7	0						
20	84QAM	1	49	17.85	17.92	17.76								
20	256QAM	1	99	17.83	17.85	17.87								
20	256QAM	50	0	17.81	17.85	17.82								
20	256QAM	50	24	17.92	18.13	17.83	19.7	0						
20	256QAM	50	50	17.88	18.10	17.97								
20	256QAM	100	0	17.87	18.09	17.95								
Channel														
1807.5 1807.5 1807.5														
16	QPSK	1	0	18.21	18.35	18.19	19.7	0						
16	QPSK	1	37	17.99	17.86	17.85								
16	QPSK	1	74	18.15	18.01	18.04								
16	QPSK	36	0	18.00	18.19	18.00								
16	QPSK	36	25	17.90	18.00	17.90	19.7	0						
16	QPSK	36	39	17.77	18.06	17.83								
16	QPSK	75	0	17.95	18.12	17.90								
16	16QAM	1	0	18.27	18.20	17.96								
16	16QAM	1	37	18.00	17.99	17.82	19.7	0						
16	16QAM	1	74	18.15	18.06	17.94								
16	16QAM	36	0	17.84	18.08	17.90								
16	16QAM	36	20	17.77	17.90	17.89								
16	16QAM	36	29	17.74	17.92	17.91	19.7	0						
16	16QAM	75	0	17.85	18.00	17.80								
16	84QAM	1	0	18.05	18.27	18.15								
16	84QAM	1	37	17.87	17.98	17.86								
16	84QAM	1	74	17.99	17.95	17.85	19.7	0						
16	84QAM	36	0	18.08	18.15	17.91								
16	84QAM	36	29	17.85	17.97	17.87								
16	84QAM	36	39	17.78	17.95	17.87								
16	84QAM	75	0	17.95	18.03	17.79	19.7	0						
16	256QAM	1	0	17.86	18.06	17.86								
16	256QAM	1	37	17.83	17.81	17.70								
16	256QAM	1	74	18.07	17.85	17.82								
16	256QAM	36	0	17.80	17.85	17.82	19.7	0						
16	256QAM	36	29	17.84	18.01	17.79								
16	256QAM	36	39	17.75	18.04	17.91								
16	256QAM	75	0	17.82	17.92	17.82								
Channel														
1805.0 1805.0 1805.0														
10	QPSK	1	0	18.20	18.27	18.10	19.7	0						
10	QPSK	1	25	17.83	17.95	17.87								
10	QPSK	1	49	18.15	18.10	18.02								
10	QPSK	25	0	18.05	18.00	17.90								
10	QPSK	25	12	17.89	17.95	17.90	19.7	0						
10	QPSK	25	25	17.78	18.14	17.92								
10	QPSK	50	0	17.89	18.00	17.89								
10	16QAM	1	0	18.20	18.25	18.02								
10	16QAM	1	25	17.94	17.92	17.83	19.7	0						
10	16QAM	1	49	18.10	17.95	17.91								
10	16QAM	25	0	17.83	18.14	17.81								
10	16QAM	25	12	17.85	17.90	17.78								
10	16QAM	50	0	17.85	17.98	17.78	19.7	0						
10	16QAM	50	24	17.85	17.98	17.84								
10	16QAM	50	50	17.81	18.03	17.77								
10	84QAM	1	0	18.03	18.21	18.04								
10	84QAM	1	24	17.87	17.92	17.81	19.7	0						
10	84QAM	1	49	18.01	18.00	17.87								
10	84QAM	25	0	18.01	18.08	17.89								
10	84QAM	25	12	17.81	17.92	17.80								
10	84QAM	25	25	17.78	17.90	17.87	19.7	0						
10	84QAM	50	0	17.96	17.96	17.73								
10	256QAM	1	0	17.88	17.88	17.74								
10	256QAM	1	25	17.77	17.83	17.74								
10	256QAM	25	0	17.88	17.85	17.67	19.7	0						
10	256QAM	25	12	17.89	18.05	17.79								
10	256QAM	25	25	17.78	17.95	17.82								
10	256QAM	50	0	17.74	17.92	17.81								
Channel														
1802.5 1802.5 1802.5														
5	QPSK	1	0	18.26	18.30	18.10	19.7	0						
5	QPSK	1	12	18.00	17.95	17.89								
5	QPSK	1	24	18.12	17.99	18.05								
5	QPSK	12	0	18.04	18.06	17.90								
5	QPSK	12	7	17.94	18.02	17.89	19.7	0						
5	QPSK	12	13	17.85	18.07	17.87								
5	QPSK	25	0	17.98	18.15	17.98								
5	16QAM	1	0	18.24	18.24	18.04								
5	16QAM	1	12	18.00	18.01	17.76	19.7	0						
5	16QAM	1	24	18.14	17.89	17.80								
5	16QAM	12	0	17.90	18.09	17.85								
5	16QAM	12	7	17.95	17.91	17.81								
5	16QAM	12	13	17.73	17.98	17.82	19.7	0						
5	16QAM	25	0	17.90	17.96	17.81								
5	84QAM	1	0	17.88	18.30	18.10								
5	84QAM	1	12	17.92	17.97	17.88								
5	84QAM	1	24	18.08	17.90	17.88	19.7	0						
5	84QAM	12	0	18.03	18.10	17.82								
5	84QAM	12	7	17.82	17.82	17.68								
5	84QAM	12	13	17.72	17.90	17.85								
5	84QAM	25	0	17.92	18.04	17.77	19.7	0						
5	256QAM	1	0	17.99	18.10	17.85								
5	256QAM	1	12	17.83	17.88	17.65								
5	256QAM	1	12	17.83	17.88	17.65	19.7	0						
5	256QAM	12	0	17.92	18.02	17.77								
5	256QAM	12	13	17.75	17.92	17.85								
5	256QAM	12	13	17.85	18.03	17.85	19.7	0						
5	256QAM	25	0	17.84	17.92	17.82								
5	256QAM	25	12	17.84	18.04	17.84								
5	256QAM	25	13	17.75	17.92	17.85								
5	256QAM	50	0	17.79	18.07	17.85	19.7	0						
5	256QAM	50	12	17.79	18.07	17.85								
5	256QAM	50	13	17.70	18.04	17.77								
5	256QAM	100	0	17.76	17.93	17.80	19.7	0						
5	256QAM	100	12	17.76	17.93	17.80								
5	256QAM	100	13	17.65	17.90	17.77								
Channel														
1801.5 1801.5 1801.5														
3	QPSK	1	0	18.21	18.34	18.18	19.7	0						
3	QPSK	1	8	17.96	17.91	17.88								
3	QPSK	1	16	18.11	18.05	17.98								
3	QPSK	8	0	18.06	18.17	17.96								
3	QPSK	8	4	17.89	17.97	17.88	19.7	0						
3	QPSK	8	8	17.84	18.10	17.95								
3	QPSK	15	0	17.96	18.16	17.96								
3	QPSK	15	4	17.87	18.07	17.96								
3	QPSK	1	0	17.97	18.02	17.78	19.7	0						
3	QPSK	1	14	18.11	17.82	17.83								
3	QPSK	1	28	18.12	17.92	17.92								
3	QPSK	8	4	17.79	17.97	17.88								
3	QPSK	8	7	17.70	17.84	17.88	19.7	0						
3	QPSK	8	14	17.83	17.95	17.95								
3	QPSK	15	0	17.97	18.20	18.13								
3	QPSK	15	8	17.87	18.01	17.85								
3	QPSK	1	0	17.93	17.93	17.83	19.7	0						
3	QPSK	1	8	18.06	18.19	17.90								
3	QPSK	8	4	17.80	17.81	17.85								
3	QPSK	8	7	17.87	17.94	17.90								
3	QPSK	15	0	17.91	17.99	17.79	19.7	0						
3	QPSK	15	0	17.94	18.11	17.86								
3	QPSK	15	8	17.84	17.90	17.86								
3	QPSK	15	14	17.74	17.88	17.78								
3	QPSK	8	4	17.81	17.96	17.94	19.7	0						
3	QPSK	8	7	17.84	18.01	17.93								
3	QPSK	8	7	17.85	18.01	17.93								
3	QPSK	15	0	17.76	17.93	17.80								
Channel														
1800.5 1800.5 1800.5														
1.4	QPSK	1	0	18.22	18.31	18.15	19.7	0						
1.4	QPSK	1	8	18.00	18.00	17.95								
1.4	QPSK	1	16	18.10	18.03	18.02								
1.4	QPSK	3	0	17.97	18.17	17.92								
1.4	QPSK	3	8	17.95	17.95	17.87	19.7	0						
1.4	QPSK	3	16	17.86	18.13	17.88								
1.4	QPSK	6	0	17.92	18.07	17.96								
1.4	QPSK	6	8	17.90	17.90	17.80								
1.4	QPSK	1	0	18.15	18.21	18.04	19.7	0						
1.4	QPSK	1	8	18.00	18.00	17.90								
1.4	QPSK	1	16	18.10	18.03	18.00								
1.4	QPSK	3	0	17.79	17.99	17.90								
1.4	QPSK	3	8	17.76	17.									

Band 25 Ant3 DSI 3												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up time (s)	MPE (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	18.44	18.45	18.50	19.7	0				
20	QPSK	1	49	18.13	18.13	18.13						
20	QPSK	1	99	18.24	18.26	18.17						
20	QPSK	50	0	18.17	18.15	18.15						
20	QPSK	50	24	18.12	18.12	18.03	19.7	0				
20	QPSK	50	50	18.01	18.22	18.12						
20	QPSK	100	0	18.13	18.23	18.03						
20	16QAM	1	0	18.35	18.37	18.21						
20	16QAM	1	49	18.16	18.14	17.99	19.7	0				
20	16QAM	1	99	18.24	18.06	18.04						
20	16QAM	50	0	18.09	18.27	18.04						
20	16QAM	50	24	17.95	17.97	17.95						
20	16QAM	50	50	17.81	18.04	18.04	19.7	0				
20	16QAM	100	0	18.05	18.10	17.96						
20	64QAM	1	0	18.21	18.36	18.22						
20	64QAM	1	49	18.08	18.10	18.00						
20	64QAM	1	99	18.15	18.11	18.00	19.7	0				
20	64QAM	50	0	18.17	18.29	18.03						
20	64QAM	50	24	18.01	17.95	17.87						
20	64QAM	100	0	17.88	18.07	17.96						
20	256QAM	1	49	17.95	18.03	17.88	19.7	0				
20	256QAM	1	99	17.85	18.02	18.00						
20	256QAM	50	0	18.12	18.26	18.07						
20	256QAM	50	24	17.98	18.16	17.88						
20	256QAM	50	50	17.91	18.18	18.04	19.7	0				
20	256QAM	100	0	17.98	18.07	17.93						
Channel												
Frequency (MHz)												
15	QPSK	1	0	18.55	18.54	18.51	19.7	0				
15	QPSK	1	27	18.08	18.08	18.03						
15	QPSK	1	74	18.13	18.15	18.13						
15	QPSK	36	0	18.08	18.16	18.09						
15	QPSK	36	20	18.04	18.02	17.88	19.7	0				
15	QPSK	36	36	17.96	18.10	18.06						
15	QPSK	75	0	18.06	18.16	17.99						
15	16QAM	1	0	18.32	18.29	18.11						
15	16QAM	1	37	18.05	18.07	17.87	19.7	0				
15	16QAM	1	74	18.12	18.20	18.07						
15	16QAM	36	0	18.03	18.16	17.93						
15	16QAM	36	20	17.85	17.87	17.83						
15	16QAM	36	20	17.85	17.87	17.83	19.7	0				
15	16QAM	75	0	17.93	18.04	17.79						
15	64QAM	1	0	18.14	18.22	18.09						
15	64QAM	1	49	18.01	18.12	17.84						
15	64QAM	1	74	18.04	18.03	17.87	19.7	0				
15	64QAM	36	0	18.08	18.18	17.99						
15	64QAM	36	20	17.81	18.03	17.91						
15	64QAM	36	36	17.81	18.07	17.96						
15	64QAM	75	0	18.03	17.99	17.88	19.7	0				
15	256QAM	1	0	18.08	18.16	17.98						
15	256QAM	1	37	17.78	17.99	17.75						
15	256QAM	1	74	17.84	17.89	17.87						
15	256QAM	36	0	17.86	18.05	17.86	19.7	0				
15	256QAM	36	20	17.85	18.14	17.84						
15	256QAM	36	36	17.78	18.11	17.99						
15	256QAM	75	0	17.83	18.07	17.85						
Channel												
Frequency (MHz)												
10	QPSK	1	0	18.52	18.52	18.42	19.7	0				
10	QPSK	1	25	18.07	18.01	17.95						
10	QPSK	1	49	18.19	18.08	18.04						
10	QPSK	25	0	18.15	18.23	18.03						
10	QPSK	25	12	18.09	18.05	17.91	19.7	0				
10	QPSK	25	25	17.88	18.15	17.99						
10	QPSK	50	0	18.05	18.12	17.97						
10	16QAM	1	0	18.32	18.27	18.16						
10	16QAM	1	25	18.05	18.08	17.94	19.7	0				
10	16QAM	1	49	18.10	17.99	17.84						
10	16QAM	25	0	17.98	18.17	18.01						
10	16QAM	25	12	17.83	17.87	17.87						
10	16QAM	25	25	17.78	17.89	18.02	19.7	0				
10	16QAM	50	0	17.93	18.05	17.86						
10	64QAM	1	0	18.09	18.26	18.11						
10	64QAM	1	25	17.90	18.03	18.03						
10	64QAM	1	49	18.12	18.01	17.91	19.7	0				
10	64QAM	25	0	18.08	18.17	17.99						
10	64QAM	25	12	17.82	17.92	17.77						
10	64QAM	25	25	17.76	18.04	17.91						
10	64QAM	50	0	17.95	18.04	17.78	19.7	0				
10	256QAM	1	0	18.15	18.15	17.87						
10	256QAM	1	25	17.84	17.94	17.78						
10	256QAM	1	49	17.82	17.96	17.94						
10	256QAM	25	0	17.86	18.05	18.01	19.7	0				
10	256QAM	25	12	17.88	18.12	17.81						
10	256QAM	25	25	17.84	18.07	17.94						
10	256QAM	50	0	17.85	18.04	17.78						
Channel												
Frequency (MHz)												
5	QPSK	1	0	18.52	18.52	18.42	19.7	0				
5	QPSK	1	12	18.05	18.10	17.90						
5	QPSK	1	24	18.13	18.14	18.10						
5	QPSK	12	0	18.05	18.16	18.11						
5	QPSK	12	7	18.05	18.03	17.95	19.7	0				
5	QPSK	12	13	17.88	18.19	18.03						
5	QPSK	25	0	18.01	18.20	18.18						
5	16QAM	1	0	18.27	18.24	18.09						
5	16QAM	1	12	18.13	18.01	17.87	19.7	0				
5	16QAM	1	24	18.10	17.93	17.86						
5	16QAM	12	0	18.04	18.16	17.96						
5	16QAM	12	7	17.88	17.85	17.85						
5	16QAM	12	13	17.78	17.85	18.01	19.7	0				
5	16QAM	25	0	17.95	18.02	17.78						
5	64QAM	1	0	18.11	18.23	18.17						
5	64QAM	1	12	18.02	17.89	17.86						
5	64QAM	1	24	18.09	18.08	17.87	19.7	0				
5	64QAM	12	0	18.14	18.16	17.91						
5	64QAM	12	7	17.85	17.84	17.79						
5	64QAM	12	13	17.83	17.87	17.81						
5	64QAM	25	0	17.98	18.03	17.82	19.7	0				
5	256QAM	1	0	18.08	18.16	17.89						
5	256QAM	1	12	17.77	18.01	17.73						
5	256QAM	1	24	17.84	17.96	17.89						
5	256QAM	12	0	18.09	18.11	17.88	19.7	0				
5	256QAM	12	7	17.86	18.12	17.76						
5	256QAM	12	13	17.78	18.06	17.97						
5	256QAM	25	0	17.86	18.05	17.80						
Channel												
Frequency (MHz)												
3	QPSK	1	0	18.37	18.36	18.24	19.7	0				
3	QPSK	1	12	18.06	18.10	17.90						
3	QPSK	1	24	18.13	18.14	18.10						
3	QPSK	12	0	18.05	18.16	18.11						
3	QPSK	12	7	18.05	18.03	17.95	19.7	0				
3	QPSK	12	13	17.88	18.19	18.03						
3	QPSK	25	0	18.01	18.20	18.18						
3	16QAM	1	0	18.27	18.24	18.09						
3	16QAM	1	12	18.13	18.01	17.87	19.7	0				
3	16QAM	1	24	18.10	17.93	17.86						
3	16QAM	12	0	18.04	18.16	17.96						
3	16QAM	12	7	17.88	17.85	17.85						
3	16QAM	12	13	17.78	17.85	18.01	19.7	0				
3	16QAM	25	0	17.95	18.02	17.78						
3	64QAM	1	0	18.11	18.23	18.17						
3	64QAM	1	12	18.02	17.89	17.86						
3	64QAM	1	24	18.09	18.08	17.87	19.7	0				
3	64QAM	12	0	18.14	18.16	17.91						
3	64QAM	12	7	17.85	17.84	17.79						
3	64QAM	12	13	17.83	17.87	17.81						
3	64QAM	25	0	17.98	18.03	17.82	19.7	0				
3	256QAM	1	0	18.08	18.16	17.89						
3	256QAM	1	12	17.77	18.01	17.73						
3	256QAM	1	24	17.84	17.96	17.89						
3	256QAM	12	0	18.09	18.11	17.88	19.7	0				
3	256QAM	12	7	17.86	18.12	17.76						
3	256QAM	12	13	17.78	18.06	17.97						
3	256QAM	25	0	17.86	18.05	17.80						
Channel												
Frequency (MHz)												
3	QPSK	1	0	18.37	18.36	18.24	19.7	0				
3	QPSK	1	12	18.06	18.10	17.90						
3	QPSK	1	24	18.13	18.14	18.10						
3	QPSK	12	0	18.05	18.16	18.11						
3	QPSK	12	7	18.05	18.03	17.95	19.7	0				
3	QPSK	12	13	17.88	18.19	18.03						
3	QPSK	25	0	18.01	18.20	18.18						
3	16QAM	1	0	18.27	18.24	18.09						
3	16QAM	1	12	18.13	18.01	17.87	19.7	0				
3	16QAM	1	24	18.10	17.93	17.86						
3	16QAM	12	0	18.04	18.16	17.96						
3	16QAM	12	7	17.88	17.85	17.85						
3	16QAM	12	13	17.78	17.85	18.01	19.7	0				
3	16QAM	25	0	17.95	18.02	17.78						
3	64QAM	1	0	18.11	18.23	18.17						
3	64QAM	1	12	18.02	17.89	17.86						
3	64QAM	1	24	18.09	18.08	17.87	19.7	0				
3	64QAM	12	0	18.14	18.16	17.91						
3	64QAM	12	7	17.85	17.84	17.79						
3	64QAM	12	13	17.83	17.87	17.81						
3	64QAM	25	0	17.98	18.03	17.82	19.7	0				
3	256QAM	1	0	18.08	18.16	17.89						
3	256QAM	1	12	17.77	18.01	17.73						
3	256QAM	1	24	17.84	17.96	17.89						
3	256QAM	12	0	18.09	18.11	17.88	19.7	0				
3	256QAM	12	7	17.86	18.12	17.76						
3	256QAM	12	13	17.78	18.06	17.97						
3	256QAM	25	0	17.86	18.05	17.80						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	18.31	18.31	18.17	19.7	0				
1.4	QPSK	1	8	18.07	18.07	18.04						
1.4	QPSK	1	16	18.11	18.06	18.04						
1.4	QPSK	3	0	18.13	18.25	18.13						
1.4	QPSK	3	8	17.98	18.10	18.07	19.7	0				
1.4	QPSK	3	16	18.02	18.10	18.07						
1.4	QPSK	3	24	18.12	18.10	18.01						
1.												



Band 38 Ant3 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)				39760	39800	39850				
20	QPSK	1	0	18.65	18.64	18.61	19.6	0		
20	QPSK	1	49	18.58	18.66	18.41				
20	QPSK	1	99	18.62	18.61	18.43				
20	QPSK	50	0	18.66	18.71	18.57				
20	QPSK	50	24	18.49	18.52	18.31	19.6	0		
20	QPSK	50	49	18.55	18.62	18.36				
20	QPSK	100	0	18.73	18.76	18.43				
20	16QAM	1	0	18.64	18.61	18.40				
20	16QAM	1	49	18.59	18.56	18.36	19.6	0		
20	16QAM	1	99	18.52	18.53	18.56				
20	16QAM	50	0	18.58	18.58	18.29				
20	16QAM	50	24	18.55	18.62	18.35				
20	16QAM	50	50	18.44	18.44	18.34	19.6	0		
20	16QAM	100	0	18.53	18.46	18.17				
20	16QAM	1	0	18.57	18.57	18.40				
20	16QAM	1	49	18.27	18.39	18.56				
20	16QAM	1	99	18.52	18.49	18.56	19.6	0		
20	16QAM	50	0	18.50	18.52	18.56				
20	16QAM	50	24	18.46	18.52	18.56				
20	16QAM	50	50	18.35	18.48	18.32				
20	16QAM	100	0	18.38	18.45	18.32	19.6	0		
20	256QAM	1	0	17.50	17.53	17.24				
20	256QAM	1	49	17.35	17.39	17.14				
20	256QAM	1	99	17.34	17.37	17.22				
20	256QAM	50	0	17.42	17.41	17.30				
20	256QAM	50	24	17.44	17.55	17.38	19.6	0.6		
20	256QAM	50	50	17.39	17.33	17.18				
20	256QAM	100	0	17.40	17.38	17.17				
Channel										
Frequency (MHz)				39765	39805	39815	Time-up limit (dBm)	MPE (dB)		
15	QPSK	1	0	18.57	18.72	18.43	19.6	0		
15	QPSK	1	37	18.51	18.62	18.36				
15	QPSK	1	74	18.59	18.54	18.38				
15	QPSK	36	0	18.57	18.64	18.53				
15	QPSK	36	20	18.28	18.50	18.21	19.6	0		
15	QPSK	36	49	18.57	18.54	18.33				
15	QPSK	75	0	18.71	18.73	18.31				
15	16QAM	1	0	18.54	18.71	18.34				
15	16QAM	1	37	18.47	18.73	18.48	19.6	0		
15	16QAM	1	74	18.52	18.43	18.28				
15	16QAM	36	0	18.46	18.57	18.25				
15	16QAM	36	20	18.52	18.56	18.29				
15	16QAM	36	39	18.38	18.32	18.22	19.6	0		
15	16QAM	75	0	18.47	18.44	18.11				
15	16QAM	1	0	18.52	18.54	18.33				
15	16QAM	1	37	18.19	18.37	18.51				
15	16QAM	1	74	18.36	18.33	18.47	19.6	0		
15	16QAM	36	0	18.53	18.59	18.52				
15	16QAM	36	20	18.57	18.55	18.41				
15	16QAM	36	39	18.47	18.46	18.27				
15	16QAM	75	0	18.53	18.32	18.30	19.6	0.6		
15	256QAM	1	0	17.41	17.42	17.17				
15	256QAM	1	37	17.35	17.35	17.07				
15	256QAM	1	74	17.29	17.30	17.11				
15	256QAM	36	0	17.40	17.48	17.17	19.6	0.6		
15	256QAM	36	20	17.43	17.43	17.26				
15	256QAM	36	39	17.29	17.27	17.11				
15	256QAM	75	0	17.33	17.34	17.12				
Channel										
Frequency (MHz)				39760	39800	39820	Time-up limit (dBm)	MPE (dB)		
10	QPSK	1	0	18.53	18.72	18.47	19.6	0		
10	QPSK	1	25	18.53	18.56	18.28				
10	QPSK	1	49	18.60	18.55	18.30				
10	QPSK	25	0	18.57	18.64	18.50				
10	QPSK	25	12	18.29	18.48	18.18	19.6	0		
10	QPSK	25	25	18.30	18.58	18.23				
10	QPSK	50	0	18.63	18.73	18.31				
10	16QAM	1	0	18.53	18.73	18.30				
10	16QAM	1	25	18.49	18.40	18.47	19.6	0		
10	16QAM	1	49	18.43	18.40	18.44				
10	16QAM	25	0	18.49	18.38	18.25				
10	16QAM	25	12	18.42	18.54	18.24				
10	16QAM	50	0	18.43	18.38	18.28	19.6	0		
10	16QAM	50	0	18.40	18.38	18.05				
10	16QAM	1	25	18.20	18.27	18.45				
10	16QAM	1	49	18.48	18.38	18.45				
10	16QAM	25	12	18.42	18.50	18.51	19.6	0		
10	16QAM	25	25	18.26	18.36	18.28				
10	16QAM	50	0	18.27	18.37	18.22				
10	256QAM	1	0	17.44	17.47	17.22				
10	256QAM	1	25	17.37	17.28	17.22	19.6	0.6		
10	256QAM	1	49	17.21	17.31	17.09				
10	256QAM	25	0	17.41	17.47	17.27				
10	256QAM	25	12	17.35	17.49	17.34				
10	256QAM	25	25	17.29	17.27	17.10	19.6	0.6		
10	256QAM	50	0	17.28	17.28	17.07				
Channel										
Frequency (MHz)				39775	39805	39825	Time-up limit (dBm)	MPE (dB)		
5	QPSK	1	0	18.55	18.74	18.54	19.6	0		
5	QPSK	1	12	18.54	18.55	18.31				
5	QPSK	1	24	18.54	18.49	18.39				
5	QPSK	12	0	18.53	18.68	18.48				
5	QPSK	12	7	18.36	18.48	18.18	19.6	0		
5	QPSK	12	13	18.36	18.55	18.24				
5	QPSK	25	0	18.56	18.72	18.40				
5	16QAM	1	0	18.52	18.69	18.30				
5	16QAM	1	12	18.43	18.45	18.51	19.6	0		
5	16QAM	1	24	18.50	18.41	18.40				
5	16QAM	12	0	18.52	18.60	18.51				
5	16QAM	12	7	18.53	18.54	18.29				
5	16QAM	12	13	18.52	18.38	18.22	19.6	0		
5	16QAM	25	0	18.53	18.36	18.06				
5	16QAM	25	0	18.53	18.39	18.06				
5	16QAM	1	0	18.53	18.59	18.51				
5	16QAM	1	24	18.41	18.41	18.46	19.6	0		
5	16QAM	12	0	18.46	18.73	18.53				
5	16QAM	12	7	18.36	18.52	18.47				
5	16QAM	12	13	18.25	18.48	18.24				
5	16QAM	25	0	18.35	18.37	18.33	19.6	0.6		
5	16QAM	1	0	17.43	17.47	17.17				
5	256QAM	1	12	17.29	17.32	17.09				
5	256QAM	1	24	17.30	17.25	17.14				
5	256QAM	12	0	17.32	17.43	17.29	19.6	0.6		
5	256QAM	12	7	17.36	17.51	17.28				
5	256QAM	12	13	17.27	17.23	17.07				
5	256QAM	25	0	17.37	17.23	17.07				
5	256QAM	25	12	17.32	17.49	17.24				

Band 48_FCC Ant3 DSI 3												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPP (dB)			
Channel				56340	56350	56350	56340					
Frequency (MHz)				56340	56350	56350	56340					
20	QPSK	1	0	16.87	16.98	16.84	16.83	18	0			
20	QPSK	1	49	16.65	16.74	16.85	16.72					
20	QPSK	1	89	16.69	16.77	16.72	16.64					
20	QPSK	50	0	16.66	16.82	16.74	16.77					
20	QPSK	50	24	16.83	16.76	16.72	16.76	18	0			
20	QPSK	50	39	16.72	16.76	16.68	16.67					
20	QPSK	100	0	16.66	16.83	16.83	16.74					
20	16QAM	1	0	16.76	16.76	16.73	16.71					
20	16QAM	1	49	16.81	16.80	16.84	16.80	18	0			
20	16QAM	1	89	16.76	16.77	16.71	16.71					
20	16QAM	50	0	16.86	16.75	16.70	16.83					
20	16QAM	50	24	16.85	16.68	16.66	16.76					
20	16QAM	50	39	16.66	16.70	16.67	16.69	18	0			
20	64QAM	100	0	16.65	16.72	16.65	16.68					
20	64QAM	1	0	16.75	16.76	16.82	16.74					
20	64QAM	1	49	16.67	16.83	16.85	16.81					
20	64QAM	1	89	16.68	16.71	16.82	16.78	18	0			
20	64QAM	50	0	16.65	16.67	16.58	16.75					
20	64QAM	50	24	16.59	16.63	16.70	16.67					
20	64QAM	50	39	16.75	16.69	16.82	16.72					
20	256QAM	1	0	16.56	16.58	16.82	16.72	18	0			
20	256QAM	1	49	16.55	16.70	16.84	16.76					
20	256QAM	1	89	16.58	16.67	16.82	16.77					
20	256QAM	1	39	16.69	16.70	16.81	16.84					
20	256QAM	50	0	16.72	16.70	16.74	16.68	18	0			
20	256QAM	50	24	16.75	16.63	16.81	16.71					
20	256QAM	50	39	16.82	16.70	16.71	16.76					
20	256QAM	100	0	16.67	16.65	16.65	16.68					
Channel				56375	56380	56380	56375					
Frequency (MHz)				56375	56380	56380	56375					
15	QPSK	1	0	16.60	16.60	16.79	16.72	18	0			
15	QPSK	1	37	16.61	16.62	16.81	16.61					
15	QPSK	1	74	16.65	16.68	16.87	16.61					
15	QPSK	86	0	16.66	16.73	16.69	16.74					
15	QPSK	86	20	16.60	16.65	16.63	16.76	18	0			
15	QPSK	86	37	16.67	16.69	16.68	16.68					
15	QPSK	75	0	16.63	16.80	16.56	16.70					
15	16QAM	1	0	16.63	16.73	16.61	16.66					
15	16QAM	1	37	16.62	16.66	16.56	16.73	18	0			
15	16QAM	1	74	16.67	16.66	16.64	16.67					
15	16QAM	56	0	16.60	16.63	16.64	16.76					
15	16QAM	56	20	16.51	16.60	16.56	16.65					
15	16QAM	86	39	16.62	16.66	16.82	16.63	18	0			
15	16QAM	75	0	16.61	16.63	16.49	16.56					
15	64QAM	1	0	16.65	16.66	16.80	16.69					
15	64QAM	1	37	16.54	16.81	16.85	16.72					
15	64QAM	1	74	16.61	16.68	16.54	16.66	18	0			
15	64QAM	56	0	16.63	16.84	16.52	16.67					
15	64QAM	56	20	16.47	16.52	16.59	16.58					
15	64QAM	86	39	16.72	16.58	16.66	16.66					
15	256QAM	1	0	16.44	16.53	16.43	16.52	18	0			
15	256QAM	1	37	16.46	16.68	16.54	16.74					
15	256QAM	1	74	16.63	16.68	16.48	16.73					
15	256QAM	56	0	16.61	16.57	16.72	16.61					
15	256QAM	56	20	16.63	16.60	16.55	16.63	18	0			
15	256QAM	56	39	16.72	16.50	16.59	16.66					
15	256QAM	75	0	16.67	16.53	16.54	16.62					
Channel				56390	56395	56395	56390					
Frequency (MHz)				56390	56395	56395	56390					
10	QPSK	1	0	16.64	16.66	16.74	16.73	18	0			
10	QPSK	1	25	16.55	16.68	16.77	16.64					
10	QPSK	1	49	16.46	16.67	16.60	16.52					
10	QPSK	25	0	16.59	16.69	16.63	16.66					
10	QPSK	25	12	16.64	16.72	16.69	16.76	18	0			
10	QPSK	25	25	16.65	16.68	16.69	16.62					
10	16QAM	1	0	16.54	16.60	16.57	16.71					
10	16QAM	1	0	16.60	16.65	16.68	16.68	18	0			
10	16QAM	1	25	16.61	16.76	16.51	16.75					
10	16QAM	1	49	16.75	16.71	16.63	16.68					
10	16QAM	25	0	16.59	16.66	16.64	16.78					
10	16QAM	25	12	16.61	16.64	16.66	16.76	18	0			
10	16QAM	25	25	16.65	16.66	16.62	16.63					
10	16QAM	50	0	16.65	16.67	16.61	16.63					
10	64QAM	1	0	16.63	16.66	16.76	16.67	18	0			
10	64QAM	1	25	16.61	16.70	16.63	16.70					
10	64QAM	1	49	16.60	16.58	16.51	16.68					
10	64QAM	25	0	16.60	16.63	16.47	16.67					
10	64QAM	25	12	16.55	16.52	16.66	16.57	18	0			
10	64QAM	25	25	16.64	16.58	16.60	16.68					
10	64QAM	50	0	16.52	16.55	16.41	16.68					
10	256QAM	1	0	16.42	16.65	16.60	16.79					
10	256QAM	1	25	16.50	16.58	16.54	16.65	18	0			
10	256QAM	1	49	16.55	16.67	16.57	16.73					
10	256QAM	25	0	16.59	16.68	16.71	16.57					
10	256QAM	25	12	16.71	16.65	16.51	16.66					
10	256QAM	25	25	16.65	16.57	16.64	16.74	18	0			
10	256QAM	50	0	16.54	16.57	16.52	16.57					
Channel				56395	56395	56395	56395					
Frequency (MHz)				56395	56395	56395	56395					
5	QPSK	1	0	16.64	16.63	16.76	16.76	18	0			
5	QPSK	1	12	16.57	16.62	16.80	16.65					
5	QPSK	1	24	16.54	16.70	16.81	16.59					
5	QPSK	12	0	16.60	16.69	16.67	16.66					
5	QPSK	12	7	16.59	16.62	16.65	16.76	18	0			
5	QPSK	12	13	16.65	16.66	16.60	16.60					
5	QPSK	25	0	16.59	16.75	16.49	16.71					
5	16QAM	1	0	16.70	16.67	16.60	16.67					
5	16QAM	1	12	16.69	16.75	16.58	16.71	18	0			
5	16QAM	1	24	16.70	16.70	16.66	16.65					
5	16QAM	12	0	16.63	16.65	16.56	16.78					
5	16QAM	12	7	16.54	16.59	16.56	16.72					
5	16QAM	12	13	16.59	16.63	16.60	16.63	18	0			
5	16QAM	25	0	16.58	16.64	16.56	16.66					
5	64QAM	1	0	16.67	16.69	16.77	16.63					
5	64QAM	1	12	16.45	16.75	16.64	16.73					
5	64QAM	1	24	16.62	16.63	16.52	16.68	18	0			
5	64QAM	12	0	16.67	16.65	16.52	16.64					
5	64QAM	12	7	16.52	16.52	16.63	16.55					
5	64QAM	12	13	16.66	16.69	16.55	16.67					
5	256QAM	1	0	16.51	16.60	16.49	16.58	18	0			
5	256QAM	1	12	16.47	16.57	16.59	16.64					
5	256QAM	1	24	16.60	16.64	16.47	16.71					
5	256QAM	12	0	16.64	16.62	16.68	16.61					
5	256QAM	12	7	16.68	16.59	16.54	16.61	18	0			
5	256QAM	12	13	16.69	16.59	16.62	16.66					
5	256QAM	25	0	16.57	16.65	16.47	16.68					



Band 48_FCC Ant5 DSI 3														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Low Ch / Freq	Power High Modulo Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPP (dB)					
Channel				56540	56630	56760	56840							
Frequency (MHz)				56610	56690	56740	56820							
20	QPSK	1	0	17.05	17.23	17.16	16.98	18.6	0					
20	QPSK	1	49	16.94	17.06	17.05	16.93							
20	QPSK	1	99	17.05	17.13	17.01	16.89							
20	QPSK	50	0	17.15	17.23	17.12	16.90							
20	QPSK	50	24	17.01	16.99	17.04	16.81	18.6	0					
20	QPSK	50	50	16.97	17.06	17.04	16.93							
20	QPSK	100	0	17.07	17.06	16.88	16.75							
20	16QAM	1	0	16.95	17.14	17.12	17.03	18.6	0					
20	16QAM	1	49	17.03	17.13	17.07	17.01							
20	16QAM	1	99	16.95	17.07	16.99	17.05							
20	16QAM	50	0	17.05	16.97	17.01	16.90							
20	16QAM	50	24	16.90	16.93	16.89	16.86	18.6	0					
20	16QAM	50	50	16.94	17.06	17.02	16.94							
20	64QAM	100	0	16.90	17.02	16.93	16.89							
20	64QAM	1	0	16.90	17.07	17.06	17.03	18.6	0					
20	64QAM	1	49	17.10	17.13	17.05	16.99							
20	64QAM	1	99	16.95	16.95	16.81	17.03							
20	64QAM	50	0	16.95	17.03	17.00	17.03							
20	64QAM	50	24	16.91	16.93	16.89	16.86	18.6	0					
20	64QAM	50	50	16.87	16.98	16.92	16.83							
20	64QAM	100	0	16.90	17.02	16.93	16.89							
20	256QAM	1	0	17.13	17.07	17.06	17.03	18.6	0					
20	256QAM	1	49	17.10	17.12	17.04	17.00							
20	256QAM	1	99	17.01	17.04	16.93	16.84							
20	256QAM	50	0	17.04	16.93	17.06	17.07							
20	256QAM	50	24	16.95	16.95	16.86	16.83	18.6	0					
20	256QAM	50	50	16.77	16.88	16.98	16.95							
20	256QAM	100	0	16.78	16.96	17.00	16.90							
Channel				56315	56420	56760	56865							
Frequency (MHz)				56325	56410	56715	56815							
15	QPSK	1	0	17.01	17.18	17.16	16.95	18.6	0					
15	QPSK	1	37	16.90	16.96	17.01	16.89							
15	QPSK	1	74	16.98	17.09	16.93	16.84							
15	QPSK	56	0	17.06	17.16	17.03	16.88							
15	QPSK	56	29	16.95	16.90	16.99	16.71	18.6	0					
15	QPSK	56	56	16.97	16.95	16.97	16.83							
15	QPSK	75	0	17.01	17.00	16.78	16.71							
15	16QAM	1	0	16.88	17.01	17.04	16.90	18.6	0					
15	16QAM	1	37	16.90	17.07	16.96	16.84							
15	16QAM	1	74	16.83	16.96	16.97	17.02							
15	16QAM	56	0	16.96	16.88	16.93	16.80							
15	16QAM	56	29	16.82	16.80	16.81	16.81	18.6	0					
15	16QAM	56	56	16.80	17.01	16.90	16.83							
15	16QAM	75	0	16.85	16.95	16.82	16.74							
15	64QAM	1	0	17.02	17.06	17.10	16.99	18.6	0					
15	64QAM	1	37	16.96	17.10	17.01	16.91							
15	64QAM	1	74	16.74	16.88	16.74	16.91							
15	64QAM	56	0	16.90	16.97	16.87	16.82							
15	64QAM	56	29	16.82	16.80	16.81	16.81	18.6	0					
15	64QAM	75	0	16.75	16.82	16.84	16.74							
15	64QAM	75	0	16.85	16.90	16.82	16.74							
15	256QAM	1	0	16.99	17.01	16.99	16.97	18.6	0					
15	256QAM	1	37	17.00	17.07	16.98	16.89							
15	256QAM	1	74	16.88	17.02	16.85	16.71							
15	256QAM	56	0	17.02	16.89	17.04	17.05							
15	256QAM	56	29	16.93	16.92	16.81	16.72	18.6	0					
15	256QAM	56	56	16.65	16.92	16.91	16.82							
15	256QAM	75	0	16.85	16.93	16.96	16.81							
Channel				56525	56610	56760	56850							
Frequency (MHz)				56535	56575	56625	56715							
10	QPSK	1	0	17.01	17.21	17.16	16.98	18.6	0					
10	QPSK	1	25	16.90	17.03	16.93	16.79							
10	QPSK	1	49	16.97	17.05	16.94	16.75							
10	QPSK	16	0	17.11	17.16	16.99	16.71							
10	QPSK	25	12	16.98	16.91	16.96	16.69	18.6	0					
10	QPSK	25	25	16.95	16.93	16.95	16.91							
10	QPSK	16	0	17.05	16.95	16.82	16.68							
10	16QAM	1	0	16.87	17.08	17.08	16.91	18.6	0					
10	16QAM	1	25	16.96	17.09	16.96	16.82							
10	16QAM	1	49	16.88	17.02	16.99	16.89							
10	16QAM	25	0	16.89	16.89	16.91	16.83							
10	16QAM	25	12	16.78	16.85	16.82	16.83	18.6	0					
10	16QAM	25	25	16.91	17.00	16.92	16.84							
10	16QAM	50	0	16.88	17.05	16.93	16.94							
10	64QAM	1	0	16.99	17.01	17.01	17.02	18.6	0					
10	64QAM	1	25	17.01	17.09	16.94	16.93							
10	64QAM	1	49	16.77	16.93	16.74	16.94							
10	64QAM	25	0	16.83	16.94	16.88	16.97							
10	64QAM	25	12	16.88	16.80	16.81	16.72	18.6	0					
10	64QAM	25	25	16.83	16.89	16.85	16.80							
10	64QAM	50	0	16.79	17.00	16.88	16.79							
10	256QAM	1	0	17.00	16.97	17.03	16.99	18.6	0					
10	256QAM	1	25	17.05	17.08	16.94	16.96							
10	256QAM	1	49	16.95	16.99	16.88	16.75							
10	256QAM	25	0	16.97	16.87	17.02	16.95							
10	256QAM	25	12	16.90	16.86	16.79	16.75	18.6	0					
10	256QAM	25	25	16.71	16.93	16.94	16.95							
10	256QAM	50	0	16.68	16.92	16.93	16.86							
Channel				56525	56575	56625	56715							
Frequency (MHz)				56535	56577	56627	56717							
5	QPSK	1	0	16.94	17.13	17.12	16.97	18.6	0					
5	QPSK	1	12	16.87	17.03	16.94	16.85							
5	QPSK	1	24	16.97	17.09	16.91	16.80							
5	QPSK	12	0	17.08	17.20	17.03	16.78							
5	QPSK	12	7	16.93	16.91	16.94	16.75	18.6	0					
5	QPSK	12	13	16.93	16.92	16.97	16.86							
5	QPSK	25	0	16.97	17.01	16.82	16.79							
5	16QAM	1	0	16.92	17.04	17.09	17.01	18.6	0					
5	16QAM	1	12	16.99	17.09	17.02	16.95							
5	16QAM	1	24	16.90	16.96	16.86	17.00							
5	16QAM	12	0	16.98	16.90	16.89	16.82							
5	16QAM	12	9	16.87	16.89	16.94	16.77	18.6	0					
5	16QAM	12	13	16.91	17.03	16.96	16.83							
5	16QAM	12	25	16.75	16.99	16.92	16.85							
5	64QAM	1	0	17.02	17.09	17.08	17.07							
5	64QAM	1	12	17.03	17.00	16.94	16.96	18.6		0				
5	64QAM	1	24	16.97	17.07	16.97	17.01							
5	64QAM	12	0	16.89	16.97	16.88	16.95							
5	64QAM	12	9	16.82	16.82	16.79	16.84	18.6	0					
5	64QAM	12	13	16.82	16.93	16.88	16.76							
5	64QAM	25	0	16.84	16.97	16.86	16.78							
5	256QAM	1	0	17.03	17.04	17.04	17.03	18.6	0					
5	256QAM	1	12	17.03	17.05	16.92	16.92							
5	256QAM	1	24	16.96	16.99	16.85	16.73							
5	256QAM	12	0	16.91	16.83	16.83	16.68							
5	256QAM	12	7	16.94	16.88	16.84	16.75	18.6	0					
5	256QAM	12	13	16.79	16.89	16.89	16.90							
5	256QAM	12	25	16.62	16.91	16.91	16.88							



Reduced Power Mode for Main PA DSI10

GSM 850 Amd									
		Base Average Power (dBm)			Turn-up		Flare/Average Power (dBm)		
TX Channel		198	199	201	Limit	198	199	201	Turn-up Limit
Frequency (MHz)		824.2	824.4	824.8	(dBm)	824.2	824.4	824.8	(dBm)
GSM 1 Tx slot		33.35	33.21	33.25	33.20	33.09	34.21	33.15	34.00
GPRS 1 Tx slot		33.02	33.04	32.98	33.00	24.02	24.04	23.98	24.00
GPRS 2 Tx slot		24.81	25.03	25.08	30.00	23.87	23.83	23.79	24.50
GPRS 3 Tx slot		25.20	25.53	25.15	29.50	23.94	23.97	23.95	25.24
GPRS 4 Tx slot		26.40	26.47	26.43	27.00	23.40	23.47	23.43	24.00
EDGE 1 Tx slot		25.51	25.54	25.49	26.50	18.51	18.54	18.49	17.50
EDGE 2 Tx slot		23.90	23.90	23.86	25.00	17.90	17.92	17.86	18.00
EDGE 3 Tx slot		23.52	23.67	23.61	23.00	18.51	18.61	18.59	18.24
EDGE 4 Tx slot		20.58	20.61	20.53	21.00	17.58	17.61	17.53	18.50
GSM 1800 Amd									
		Base Average Power (dBm)			Turn-up		Flare/Average Power (dBm)		
TX Channel		1802	1803	1805	Limit	1802	1803	1805	Turn-up Limit
Frequency (MHz)		1852.2	1852	1850.8	(dBm)	1852.2	1852	1850.8	(dBm)
GSM 1 Tx slot		27.50	27.62	27.58	27.00	18.52	18.63	18.56	18.50
GPRS 1 Tx slot		25.88	25.93	25.44	27.50	16.88	16.83	16.44	18.10
GPRS 2 Tx slot		23.58	23.56	23.28	25.50	17.58	17.50	17.28	18.10
GPRS 3 Tx slot		23.20	23.21	23.03	23.00	17.94	17.95	17.87	18.34
GPRS 4 Tx slot		18.84	18.73	18.67	21.00	16.84	16.75	16.67	18.88
EDGE 1 Tx slot		21.15	21.25	21.04	22.00	17.16	17.25	17.04	18.86
EDGE 2 Tx slot		18.58	18.67	18.54	21.50	15.58	15.67	15.54	18.12
EDGE 3 Tx slot		16.40	16.53	16.17	20.50	14.14	14.25	13.91	18.84
EDGE 4 Tx slot		15.32	15.27	15.15	15.50	13.32	13.27	13.15	15.50
WCDMA 8 Amd									
Band		8882	8900	8938	Turn-up	8918	8940	8958	Turn-up
Rx Channel		8882	8900	8938	Limit	8918	8938	8958	Limit
Frequency (MHz)		1527.4	1524	1521.6	(dBm)	1527.4	1524	1521.6	(dBm)
SOPF Rx (9)		15.34	15.21	15.31	17.00	14.82	14.81	14.80	17.65
SOPF Rx (9)		18.18	18.39	18.30	17.00	14.32	15.08	15.03	18.00
SOPF Rx (8)		14.35	14.36	14.17	16.00	13.85	13.96	13.85	15.00
SOPF Rx (6)		14.65	14.19	14.27	16.00	13.73	13.88	14.00	15.00
SOPF Rx (6)		13.73	13.93	14.56	15.00	13.49	13.93	13.67	14.50
SOPF Rx (6)		13.74	13.59	13.74	15.00	13.40	13.53	13.38	14.30
SOPF Rx (6)		14.61	14.88	14.29	16.00	14.09	14.10	13.95	15.00
SOPF Rx (8)		14.42	14.27	14.52	16.00	14.20	13.83	14.12	15.00
SOPF Rx (8)		14.09	14.01	13.90	16.00	13.68	13.85	13.73	14.50
SOPF Rx (8)		13.18	13.39	13.18	15.00	13.53	13.60	13.53	14.30
SOPF Rx (6)		14.48	14.28	14.17	16.00	14.05	13.95	13.85	15.00
SOPF Rx (6)		12.34	12.03	12.58	14.00	11.88	11.89	11.88	18.84
SOPF Rx (6)		13.29	13.18	13.13	15.00	12.83	13.04	12.85	15.00
SOPF Rx (6)		12.15	12.44	12.81	14.00	11.77	11.89	12.20	13.00
SOPF Rx (6)		14.41	14.47	14.45	16.00	14.02	14.20	14.07	15.00
WCDMA V Amd									
		Base Average Power (dBm)			Turn-up		Flare/Average Power (dBm)		
Tx Channel		4102	4102	4102	Limit	4102	4102	4102	Turn-up Limit
Frequency (MHz)		4102	4102	4102	(dBm)	4102	4102	4102	(dBm)
SOPF Rx (9)		15.34	15.21	15.31	17.00	14.82	14.81	14.80	17.65
SOPF Rx (9)		18.18	18.39	18.30	17.00	14.32	15.08	15.03	18.00
SOPF Rx (8)		14.35	14.36	14.17	16.00	13.85	13.96	13.85	15.00
SOPF Rx (6)		14.65	14.19	14.27	16.00	13.73	13.88	14.00	15.00
SOPF Rx (6)		13.73	13.93	14.56	15.00	13.49	13.93	13.67	14.50
SOPF Rx (6)		13.74	13.59	13.74	15.00	13.40	13.53	13.38	14.30
SOPF Rx (6)		14.61	14.88	14.29	16.00	14.09	14.10	13.95	15.00
SOPF Rx (8)		14.42	14.27	14.52	16.00	14.20	13.83	14.12	15.00
SOPF Rx (8)		14.09	14.01	13.90	16.00	13.68	13.85	13.73	14.50
SOPF Rx (8)		13.18	13.39	13.18	15.00	13.53	13.60	13.53	14.30
SOPF Rx (6)		14.48	14.28	14.17	16.00	14.05	13.95	13.85	15.00
SOPF Rx (6)		12.34	12.03	12.58	14.00	11.88	11.89	11.88	18.84
SOPF Rx (6)		13.29	13.18	13.13	15.00	12.83	13.04	12.85	15.00
SOPF Rx (6)		12.15	12.44	12.81	14.00	11.77	11.89	12.20	13.00
SOPF Rx (6)		14.41	14.47	14.45	16.00	14.02	14.20	14.07	15.00



Band 2 Ant0													
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Fires	Power High Ch./Fires	Power High Ch./Fires	Turn-up time (dB)	MPR (dB)					
Channel													
1800 1800 1800													
20	QPSK	1	0	18.05	18.17	17.89	19.1	0					
20	QPSK	1	49	17.70	17.91	17.72							
20	QPSK	1	99	17.75	17.83	18.04							
20	QPSK	50	0	17.73	18.08	17.88							
20	QPSK	50	24	17.78	17.88	17.89	19.1	0					
20	QPSK	50	50	17.87	18.05	17.76							
20	QPSK	100	0	17.90	17.92	17.83							
20	QPSK	100	50	17.87	17.97	17.78							
20	16QAM	1	49	17.93	17.90	17.69	19.1	0					
20	16QAM	1	99	17.94	17.98	17.75							
20	16QAM	50	0	17.70	17.91	17.72							
20	16QAM	50	24	17.80	17.90	17.69							
20	16QAM	50	50	17.84	17.92	17.81	19.1	0					
20	16QAM	100	0	17.83	17.87	17.69							
20	8QAM	1	0	17.89	17.90	17.92							
20	8QAM	1	49	17.92	18.04	17.84							
20	8QAM	1	99	17.80	17.87	17.85	19.1	0					
20	8QAM	50	0	17.80	17.86	17.62							
20	8QAM	50	24	17.45	17.95	17.72							
20	8QAM	50	50	17.87	17.88	17.75							
20	256QAM	1	99	17.95	17.87	17.75	19.1	0					
20	256QAM	50	0	17.82	17.86	17.62							
20	256QAM	50	24	17.83	17.84	17.71							
20	256QAM	50	50	17.88	17.78	17.71							
20	256QAM	100	0	17.81	17.86	17.64							
Channel													
1807.5 1800 1815													
15	QPSK	1	0	18.07.5	18.08	18.02.5	19.1	0					
15	QPSK	1	0	18.02	18.08	18.08							
15	QPSK	1	74	17.93	17.85	17.89							
15	QPSK	1	74	17.63	17.85	17.89							
15	QPSK	50	0	17.70	18.04	17.78	19.1	0					
15	QPSK	50	24	17.80	17.82	17.89							
15	QPSK	36	36	17.87	17.85	17.66							
15	QPSK	75	0	17.77	17.89	17.75							
15	16QAM	1	37	17.82	17.85	17.67	19.1	0					
15	16QAM	1	37	17.82	17.85	17.67							
15	16QAM	36	0	17.66	17.89	17.61							
15	16QAM	36	0	17.66	17.89	17.61							
15	16QAM	36	20	17.48	17.84	17.52	19.1	0					
15	16QAM	36	20	17.48	17.84	17.52							
15	16QAM	75	0	17.42	17.85	17.57							
15	8QAM	1	0	17.90	17.87	17.85							
15	8QAM	1	99	17.80	17.82	17.89	19.1	0					
15	8QAM	50	0	17.82	17.77	17.85							
15	8QAM	1	74	17.77	17.77	17.85							
15	8QAM	36	0	17.48	17.74	17.58							
15	8QAM	36	20	17.58	17.75	17.58	19.1	0					
15	8QAM	36	20	17.58	17.75	17.58							
15	8QAM	75	0	17.42	17.85	17.57							
15	8QAM	1	0	17.90	17.87	17.85							
15	256QAM	1	37	17.79	17.80	17.72	19.1	0					
15	256QAM	1	37	17.79	17.80	17.72							
15	256QAM	36	0	17.48	17.82	17.58							
15	256QAM	36	0	17.48	17.82	17.58							
15	256QAM	36	20	17.77	17.82	17.61	19.1	0					
15	256QAM	36	20	17.77	17.82	17.61							
15	256QAM	75	0	17.87	17.71	17.58							
15	256QAM	75	0	17.82	17.77	17.64							
Channel													
1805 1800 1815													
10	QPSK	1	0	18.05	18.15	18.05	19.1	0					
10	QPSK	1	25	17.98	18.05	17.85							
10	QPSK	1	49	17.84	17.82	17.82							
10	QPSK	1	49	17.82	17.85	17.85							
10	QPSK	25	12	17.82	17.85	17.87	19.1	0					
10	QPSK	25	25	17.84	17.86	17.62							
10	QPSK	50	0	17.82	17.85	17.85							
10	QPSK	50	0	17.98	17.80	17.87							
10	16QAM	1	0	17.98	17.80	17.87	19.1	0					
10	16QAM	1	25	17.89	17.77	17.65							
10	16QAM	1	49	17.81	17.85	17.85							
10	16QAM	25	0	17.68	17.80	17.69							
10	16QAM	25	12	17.51	17.79	17.51	19.1	0					
10	16QAM	25	25	17.81	17.78	17.68							
10	16QAM	50	0	17.46	17.77	17.48							
10	16QAM	50	0	17.68	17.81	17.85							
10	8QAM	1	49	17.88	17.83	17.83	19.1	0					
10	8QAM	1	49	17.74	17.83	17.87							
10	8QAM	25	12	17.57	17.76	17.63							
10	8QAM	25	25	17.63	17.78	17.68							
10	8QAM	25	25	17.63	17.78	17.68	19.1	0					
10	8QAM	50	0	17.52	17.84	17.69							
10	8QAM	50	0	17.52	17.84	17.69							
10	256QAM	1	49	17.48	17.86	17.72							
10	256QAM	1	49	17.48	17.86	17.72	19.1	0					
10	256QAM	25	12	17.73	17.71	17.61							
10	256QAM	25	25	17.54	17.72	17.58							
10	256QAM	50	0	17.58	17.72	17.67							
Channel													
1802.5 1800 1815													
5	QPSK	1	0	18.02.5	18.05	18.02.5	19.1	0					
5	QPSK	1	12	17.92	18.03	17.85							
5	QPSK	1	24	17.63	17.85	17.85							
5	QPSK	12	0	17.42	18.05	17.85							
5	QPSK	12	7	17.78	17.78	17.74	19.1	0					
5	QPSK	12	13	17.89	17.89	17.72							
5	QPSK	25	0	17.41	17.78	17.75							
5	QPSK	25	0	17.60	17.88	17.67							
5	16QAM	1	12	17.88	17.78	17.66	19.1	0					
5	16QAM	1	12	17.88	17.78	17.66							
5	16QAM	12	7	17.58	17.80	17.61							
5	16QAM	12	7	17.58	17.80	17.61							
5	16QAM	25	0	17.41	17.83	17.48	19.1	0					
5	16QAM	25	0	17.41	17.83	17.48							
5	16QAM	25	12	17.69	17.82	17.67							
5	16QAM	25	12	17.69	17.82	17.67							
5	8QAM	1	0	17.96	17.92	17.87	19.1	0					
5	8QAM	1	24	17.78	17.77	17.82							
5	8QAM	12	0	17.50	17.77	17.68							
5	8QAM	12	7	17.39	17.81	17.68							
5	8QAM	12	13	17.87	17.84	17.62	19.1	0					
5	8QAM	25	0	17.63	17.71	17.62							
5	8QAM	1	0	17.87	17.84	17.83							
5	256QAM	1	12	17.86	17.89	17.69							
5	256QAM	1	24	17.48	17.75	17.62	19.1	0					
5	256QAM	1	24	17.48	17.75	17.62							
5	256QAM	12	0	17.50	17.77	17.68							
5	256QAM	12	0	17.39	17.81	17.68							
5	256QAM	12	13	17.87	17.84	17.62							
5	256QAM	25	0	17.63	17.71	17.62							
5	256QAM	25	12	17.69	17.82	17.67							
5	256QAM	25	12	17.69	17.82	17.67							
5	256QAM	50	0	17.69	17.67	17.55	19.1	0					
5	256QAM	50	0	17.69	17.67	17.55							
5	256QAM	50	0	17.69	17.67	17.55							
5	256QAM	50	0	17.69	17.67	17.55							
5	256QAM	50	0	17.69	17.67	17.55							
5	256QAM	50	0	17.69	17.67	17.55							
Channel													
1807.5 1800 1815													
3	QPSK	1	0	18.07	18.08	17.86	19.1	0					
3	QPSK	1	8	17.97	18.03	17.83							
3	QPSK	1	24	17.63	17.85	17.85							
3	QPSK	1	24	17.63	17.85	17.85							
3	QPSK	8	4	17.83	17.79	17.83	19.1	0					
3	QPSK	8	4	17.83	17.79	17.83							
3	QPSK	8	4	17.83	17.79	17.83							
3	QPSK	8	4	17.83	17.79	17.83							
3	QPSK	15	0	17.76	17.80	17.69	19.1	0					
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69	19.1	0					
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69	19.1	0					
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69	19.1	0					
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69	19.1	0					
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69	19.1	0					
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69							
3	QPSK	15	0	17.76	17.80	17.69	19.1	0					
3	QPSK	15	0	17.76	17.80	17.69							
3</													

Band 12 Ant0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MPR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	21.39	21.47	21.30	22.7	0						
10	QPSK	1	25	21.30	21.39	21.22								
10	QPSK	1	49	21.32	21.42	21.20								
10	QPSK	25	0	21.32	21.42	21.36								
10	QPSK	25	12	21.30	21.30	21.21	22.7	0						
10	QPSK	25	25	21.31	21.39	21.24								
10	QPSK	50	0	21.28	21.30	21.21								
10	16QAM	1	0	21.28	21.40	21.06								
10	16QAM	1	25	21.04	21.32	21.14	22.7	0						
10	16QAM	1	49	21.10	21.16	21.15								
10	16QAM	25	0	21.23	21.19	21.19								
10	16QAM	25	12	21.09	21.10	21.13								
10	16QAM	25	25	21.14	21.16	21.11	22.7	0						
10	16QAM	50	0	21.14	21.16	20.98								
10	64QAM	1	0	21.16	21.20	21.25								
10	64QAM	1	25	21.13	21.24	21.00								
10	64QAM	1	49	21.10	21.36	21.11	22.5	0.2						
10	64QAM	25	0	20.78	20.80	20.72								
10	64QAM	25	12	20.67	20.72	20.69								
10	64QAM	25	25	20.69	20.75	20.66								
10	64QAM	50	0	20.71	20.77	20.68	20.5	2.2						
10	256QAM	1	25	18.73	18.83	18.77								
10	256QAM	1	49	18.73	18.83	18.78								
10	256QAM	25	0	18.60	18.82	18.67								
10	256QAM	25	12	18.70	18.74	18.70	20.5	2.2						
10	256QAM	25	25	18.65	18.72	18.66								
10	256QAM	50	0	18.65	18.72	18.66								
10	256QAM	50	0	18.70	18.78	18.73								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.29	21.31	21.09	22.7	0						
5	QPSK	1	12	21.00	21.16	20.97								
5	QPSK	1	24	21.17	21.37	21.04								
5	QPSK	12	0	21.29	21.31	21.08								
5	QPSK	12	13	21.09	21.09	21.08	22.7	0						
5	QPSK	12	13	21.14	21.09	21.06								
5	QPSK	25	0	21.07	21.16	21.17								
5	16QAM	1	0	21.12	21.23	20.95								
5	16QAM	1	12	20.30	21.17	20.89	22.7	0						
5	16QAM	1	24	21.08	20.99	20.97								
5	16QAM	12	0	21.04	21.08	21.04								
5	16QAM	12	7	21.03	20.87	20.92								
5	16QAM	12	7	20.84	20.86	20.65	22.5	0.2						
5	16QAM	12	13	20.97	20.96	21.01								
5	16QAM	25	0	20.98	21.00	20.72								
5	64QAM	1	0	21.03	21.00	21.03								
5	64QAM	1	24	20.97	21.02	20.97	22.7	0						
5	64QAM	12	0	20.74	20.71	20.62								
5	64QAM	12	7	20.67	20.69	20.61								
5	64QAM	12	13	20.95	20.72	20.63								
5	256QAM	1	0	18.76	18.81	18.73	20.5	2.2						
5	256QAM	1	12	18.69	18.81	18.73								
5	256QAM	12	0	18.73	18.75	18.69								
5	256QAM	12	7	18.61	18.71	18.68								
5	256QAM	12	7	18.61	18.64	18.57	20.5	2.2						
5	256QAM	12	13	18.61	18.64	18.57								
5	256QAM	25	0	18.61	18.72	18.66								
Channel														
Frequency (MHz)														
3	QPSK	1	0	21.29	21.31	21.09	22.7	0						
3	QPSK	1	8	21.08	21.29	21.01								
3	QPSK	1	14	21.21	21.18	21.13								
3	QPSK	8	0	21.12	21.27	21.07								
3	QPSK	8	7	21.03	21.19	21.02	22.7	0						
3	QPSK	8	7	21.08	21.07	21.06								
3	16QAM	1	0	21.10	21.23	21.07								
3	16QAM	1	8	20.89	21.37	20.99								
3	16QAM	1	8	21.04	21.09	20.86	22.7	0						
3	16QAM	8	0	21.19	21.03	21.02								
3	16QAM	8	4	20.85	21.00	20.96								
3	16QAM	8	7	20.87	21.01	20.96								
3	16QAM	15	0	21.06	21.07	20.89	22.7	0						
3	64QAM	1	0	21.02	21.12	20.80								
3	64QAM	1	14	20.93	21.19	20.93								
3	64QAM	8	0	20.71	20.77	20.69								
3	64QAM	8	4	20.67	20.85	20.85	22.5	0.2						
3	64QAM	8	7	20.61	20.67	20.61								
3	256QAM	1	0	18.71	18.80	18.75								
3	256QAM	1	8	18.65	18.75	18.67								
3	256QAM	1	14	18.69	18.74	18.72	20.5	2.2						
3	256QAM	8	0	18.76	18.78	18.75								
3	256QAM	8	4	18.65	18.71	18.63								
3	256QAM	8	7	18.66	18.64	18.60								
3	256QAM	15	0	18.62	18.75	18.67	20.5	2.2						
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	21.24	21.43	21.12					22.7	0		
1.4	QPSK	1	3	21.22	21.26	21.01								
1.4	QPSK	1	5	21.16	21.26	21.05								
1.4	QPSK	3	0	21.16	21.24	21.12								
1.4	QPSK	3	1	21.27	21.19	20.97	22.7	0						
1.4	QPSK	3	3	21.20	21.20	21.03								
1.4	QPSK	6	0	21.11	21.29	21.02								
1.4	16QAM	1	0	21.17	21.27	20.80								
1.4	16QAM	1	3	20.84	21.12	20.90	22.7	0						
1.4	16QAM	1	5	21.05	20.91	20.96								
1.4	16QAM	3	0	21.00	21.19	21.13								
1.4	16QAM	3	1	21.05	20.98	20.95								
1.4	16QAM	3	3	20.80	21.14	20.92	22.7	0						
1.4	16QAM	6	0	20.95	21.11	20.93								
1.4	64QAM	1	0	21.13	21.09	21.04								
1.4	64QAM	1	3	21.08	21.22	20.94								
1.4	64QAM	1	5	20.85	21.21	21.06	22.7	0						
1.4	64QAM	3	0	21.13	21.36	21.09								
1.4	64QAM	3	1	21.14	21.31	21.17								
1.4	64QAM	3	3	21.22	21.31	21.03								
1.4	64QAM	6	0	20.62	20.69	20.62	22.5	0.2						
1.4	256QAM	1	0	18.72	18.86	18.78								
1.4	256QAM	1	3	18.71	18.75	18.72								
1.4	256QAM	1	5	18.71	18.73	18.76								
1.4	256QAM	3	0	18.77	18.73	18.89	20.5	2.2						
1.4	256QAM	3	1	18.67	18.71	18.67								
1.4	256QAM	3	3	18.59	18.66	18.56								
1.4	256QAM	6	0	18.65	18.74	18.68								

Band 13 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MPR (dB)	
Channel				25020					
Frequency (MHz)									
10	QPSK	1	0	21.68	21.67	21.68	22.5	0	
10	QPSK	1	25	21.67	21.67	21.67			
10	QPSK	1	50	21.67	21.67	21.67			
10	QPSK	25	0	21.63	21.63	21.63			
10	QPSK	25	12	21.54	21.54	21.54	22.5	0	
10	QPSK	25	25	21.54	21.54	21.54			
10	QPSK	50	0	21.51	21.51	21.51			
10	16QAM	1	0	21.53	21.53	21.53			
10	16QAM	1	25	21.54	21.54	21.54	22.5	0	
10	16QAM	1	50	21.55	21.55	21.55			
10	16QAM	25	0	21.49	21.49	21.49			
10	16QAM	25	12	21.43	21.43	21.43			
10	16QAM	25	25	21.38	21.38	21.38	22.5	0	
10	16QAM	50	0	21.36	21.36	21.36			
10	16QAM	50	25	21.36	21.36	21.36			
10	16QAM	1	0	19.11	19.11	19.11			
10	25QAM	1	0	19.25	19.25	19.25	20.5	2	
10	25QAM	1	25	19.25	19.25	19.25			
10	25QAM	1	50	19.25	19.25	19.25			
10	25QAM	25	0	19.58	19.58	19.58			
10	25QAM	25	12	19.51	19.51	19.51	20.5	2	
10	25QAM	25	25	19.42	19.42	19.42			
10	25QAM	50	0	19.44	19.44	19.44			
10	25QAM	50	25	19.44	19.44	19.44			
Channel				23005			23020		
Frequency (MHz)				229.9	229.9	229.9	Tune-up Int. (dB)		MPR (dB)
5	QPSK	1	0	21.58	21.41	21.55	22.5	0	
5	QPSK	1	12	21.43	21.63	21.59			
5	QPSK	1	24	21.44	21.64	21.54			
5	QPSK	12	0	21.49	21.39	21.42			
5	QPSK	12	7	21.46	21.42	21.28	22.5	0	
5	QPSK	12	14	21.47	21.41	21.43			
5	QPSK	25	0	21.40	21.54	21.37			
5	16QAM	1	0	21.41	21.48	21.43			
5	16QAM	1	12	21.46	21.43	21.48	22.5	0	
5	16QAM	1	24	21.27	21.51	21.25			
5	16QAM	12	0	21.47	21.49	21.48			
5	16QAM	12	7	21.27	21.19	21.18			
5	16QAM	12	19	21.13	21.21	21.11	22.5	0	
5	16QAM	25	0	21.16	21.33	21.23			
5	16QAM	25	0	21.22	21.26	21.25			
5	16QAM	25	18	21.05	21.05	21.01			
5	25QAM	1	12	19.14	19.16	19.13	20.5	2	
5	25QAM	1	24	19.16	19.16	19.16			
5	25QAM	12	0	19.39	19.49	19.45			
5	25QAM	12	7	19.35	19.41	19.39			
5	25QAM	12	19	19.35	19.41	19.34	20.5	2	
5	25QAM	25	0	19.35	19.41	19.34			
5	25QAM	25	18	19.35	19.41	19.27			
5	25QAM	25	19	19.35	19.41	19.27			

Band 25 Ant0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 26145	Power Med Ch / Freq. 26150	Power High Ch / Freq. 26155	Turn-up Int. (dB)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	18.09	18.20	18.25	19.1	0						
20	QPSK	1	49	18.17	18.18	18.21								
20	QPSK	1	99	17.99	18.20	18.10								
20	QPSK	50	0	18.00	18.16	17.94								
20	QPSK	50	24	17.94	18.14	18.05	19.1	0						
20	QPSK	50	50	18.13	18.13	18.02								
20	QPSK	100	0	18.02	18.11	18.02								
20	HQAM	1	0	17.89	18.07	18.00								
20	HQAM	1	49	17.88	18.00	17.85	19.1	0						
20	HQAM	1	99	17.87	18.04	17.86								
20	HQAM	50	0	17.90	18.05	17.80								
20	HQAM	50	24	17.86	18.03	17.80								
20	HQAM	50	50	18.05	18.07	17.97	19.1	0						
20	HQAM	100	0	17.77	18.06	17.79								
20	HQAM	1	0	17.92	18.11	18.05								
20	HQAM	1	49	17.87	18.07	17.85								
20	HQAM	1	99	17.88	18.06	17.84	19.1	0						
20	HQAM	50	0	17.83	17.93	17.77								
20	HQAM	50	24	17.88	18.06	17.86								
20	HQAM	50	50	17.83	18.02	17.86								
20	HQAM	100	0	17.67	18.06	17.65	19.1	0						
20	SSBQAM	1	0	18.03	18.12	18.00								
20	SSBQAM	1	49	18.00	18.14	17.89								
20	SSBQAM	1	99	17.79	18.12	17.88								
20	SSBQAM	50	0	17.74	18.09	17.78	19.1	0						
20	SSBQAM	50	24	17.86	17.92	17.83								
20	SSBQAM	50	50	17.60	17.83	17.79								
20	SSBQAM	100	0	17.64	17.81	17.61								
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.02	18.24	18.18	19.1	0						
15	QPSK	1	37	18.07	18.15	17.86								
15	QPSK	1	74	17.86	18.16	17.86								
15	QPSK	36	0	17.86	18.04	17.80								
15	QPSK	36	20	17.85	18.01	18.00	19.1	0						
15	QPSK	36	36	18.01	18.10	17.80								
15	QPSK	75	0	17.83	18.01	17.80								
15	HQAM	1	0	17.85	18.00	17.84								
15	HQAM	1	37	17.85	17.84	17.71	19.1	0						
15	HQAM	1	74	17.73	17.82	17.81								
15	HQAM	36	0	17.87	17.83	17.82								
15	HQAM	36	20	17.73	17.80	17.73								
15	HQAM	36	36	17.82	18.00	17.71	19.1	0						
15	HQAM	75	0	17.65	18.00	17.81								
15	HQAM	1	0	17.86	18.09	17.88								
15	HQAM	1	37	17.87	18.01	17.81								
15	HQAM	1	74	17.73	18.04	17.85	19.1	0						
15	HQAM	36	0	17.73	17.83	17.74								
15	HQAM	36	20	17.68	17.86	17.68								
15	HQAM	36	36	17.87	17.92	17.87								
15	HQAM	75	0	17.69	17.85	17.87	19.1	0						
15	SSBQAM	1	0	17.81	18.04	17.80								
15	SSBQAM	1	37	17.50	18.05	17.87								
15	SSBQAM	1	74	17.67	17.89	17.78								
15	SSBQAM	36	0	17.60	17.87	17.66	19.1	0						
15	SSBQAM	36	20	17.79	17.84	17.79								
15	SSBQAM	36	36	17.82	17.84	17.77								
15	SSBQAM	75	0	17.70	17.82	17.81								
Channel														
Frequency (MHz)														
10	QPSK	1	0	18.00	18.21	18.10	19.1	0						
10	QPSK	1	25	18.09	18.06	17.98								
10	QPSK	1	49	17.87	18.14	18.03								
10	QPSK	25	0	17.82	18.05	17.80								
10	QPSK	25	12	17.88	18.05	17.89	19.1	0						
10	QPSK	25	25	18.10	18.00	17.88								
10	QPSK	50	0	17.88	17.87	17.80								
10	HQAM	1	0	17.87	18.05	17.92								
10	HQAM	1	25	17.60	17.81	17.75	19.1	0						
10	HQAM	1	49	17.14	18.01	17.80								
10	HQAM	25	0	17.85	18.00	17.80								
10	HQAM	25	12	17.83	18.00	17.75								
10	HQAM	50	0	17.68	17.88	17.80	19.1	0						
10	HQAM	50	25	17.72	18.01	17.87								
10	HQAM	1	0	17.87	18.02	17.88								
10	HQAM	1	25	17.67	17.86	17.73								
10	HQAM	1	49	17.83	18.02	17.85	19.1	0						
10	HQAM	25	0	17.76	17.80	17.71								
10	HQAM	25	12	17.67	17.88	17.82								
10	HQAM	50	0	17.69	17.90	17.82								
10	HQAM	50	0	17.64	17.91	17.88	19.1	0						
10	SSBQAM	1	0	17.01	18.00	17.81								
10	SSBQAM	1	25	17.67	18.05	17.80								
10	SSBQAM	1	49	17.70	18.04	17.81								
10	SSBQAM	25	0	17.61	18.06	17.71	19.1	0						
10	SSBQAM	25	12	17.83	17.83	17.81								
10	SSBQAM	25	25	17.67	17.81	17.68								
10	SSBQAM	50	0	17.75	17.88	17.72								
Channel														
Frequency (MHz)														
5	QPSK	1	0	18.02	18.18	18.00	19.1	0						
5	QPSK	1	12	18.13	18.11	18.04								
5	QPSK	1	24	17.87	18.11	18.06								
5	QPSK	12	0	17.85	18.03	17.85								
5	QPSK	12	7	17.88	18.04	17.84	19.1	0						
5	QPSK	12	13	18.05	18.09	17.89								
5	QPSK	36	0	17.80	18.08	17.80								
5	HQAM	1	0	17.82	17.99	17.91								
5	HQAM	1	12	17.60	17.84	17.75	19.1	0						
5	HQAM	1	24	17.84	17.82	17.84								
5	HQAM	12	0	17.88	17.97	17.77								
5	HQAM	12	7	17.72	17.97	17.67								
5	HQAM	36	0	17.69	18.04	17.89	19.1	0						
5	HQAM	36	0	17.72	17.93	17.67								
5	HQAM	1	0	17.65	18.08	17.97								
5	HQAM	1	12	17.84	18.03	17.78								
5	HQAM	1	24	17.80	17.99	17.90	19.1	0						
5	HQAM	12	0	17.60	17.86	17.73								
5	HQAM	12	7	17.67	17.89	17.74								
5	HQAM	36	0	17.89	17.86	17.80								
5	HQAM	12	13	17.89	17.86	17.80	19.1	0						
5	HQAM	25	0	17.84	17.89	17.82								
5	SSBQAM	1	0	17.69	17.88	17.80								
5	SSBQAM	1	12	17.92	18.04	17.78								
5	SSBQAM	1	24	17.74	18.06	17.75	19.1	0						



Band 30 Ant0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR (dB)			
Channel											
Frequency (MHz)											
16	QPSK	1	0	15.30	21.10		16.2	0			
16	QPSK	1	24	15.26							
16	QPSK	1	48	15.18							
16	QPSK	25	0	15.21							
16	QPSK	25	12	15.02			16.2	0			
16	QPSK	25	25	14.98							
16	QPSK	50	0	15.16							
16	16QAM	1	0	15.20							
16	16QAM	1	24	15.22			16.2	0			
16	16QAM	1	48	15.09							
16	16QAM	25	0	15.11							
16	16QAM	25	12	14.92							
16	16QAM	25	25	14.96			16.2	0			
16	16QAM	50	0	15.11							
16	16QAM	1	0	15.20							
16	64QAM	1	24	15.15			16.2	0			
16	64QAM	1	48	15.07							
16	64QAM	25	0	15.17							
16	64QAM	25	12	14.96							
16	64QAM	25	25	14.98			16.2	0			
16	64QAM	50	0	15.04							
16	256QAM	1	24	15.12							
16	256QAM	1	48	15.14							
16	256QAM	25	0	15.14			16.2	0			
16	256QAM	25	12	14.99							
16	256QAM	25	25	15.02							
16	256QAM	50	0	15.10							
Channel											
Frequency (MHz)											
5	QPSK	1	0	15.25	21.25	27.05	16.2	0			
5	QPSK	1	12	15.13	15.12	15.20					
5	QPSK	1	24	15.11	15.14	15.11					
5	QPSK	12	0	15.12	15.18	15.11					
5	QPSK	12	7	14.97	14.92	14.91	16.2	0			
5	QPSK	12	13	15.04	15.05	15.06					
5	QPSK	20	0	15.13	15.06	15.06					
5	16QAM	1	0	15.15	15.10	15.13					
5	16QAM	1	12	15.18	15.11	15.17	16.2	0			
5	16QAM	1	24	15.03	14.97	15.06					
5	16QAM	12	0	15.08	15.05	14.99					
5	16QAM	12	7	14.81	14.83	14.81					
5	16QAM	12	13	14.97	14.94	14.93	16.2	0			
5	16QAM	25	0	15.03	15.02	15.05					
5	64QAM	1	0	15.18	15.17	15.17					
5	64QAM	1	12	15.07	15.06	15.07					
5	64QAM	1	24	14.96	15.03	14.93	16.2	0			
5	64QAM	12	7	14.86	14.90	14.86					
5	64QAM	12	13	14.92	14.92	14.95					
5	64QAM	25	0	14.96	14.94	14.96					
5	256QAM	1	0	15.13	15.20	15.14	16.2	0			
5	256QAM	1	12	15.00	15.05	15.04					
5	256QAM	1	24	15.05	15.12	15.01					
5	256QAM	12	0	15.06	15.05	15.05					
5	256QAM	12	7	14.95	14.94	14.89	16.2	0			
5	256QAM	12	13	14.91	14.95	14.95					
5	256QAM	25	0	15.04	14.98	15.01					

Band 66 Ant0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	14.69	14.71	14.68	15.9	0			
20	QPSK	1	48	14.52	14.63	14.63					
20	QPSK	1	96	14.58	14.60	14.43					
20	QPSK	50	0	14.49	14.60	14.60					
20	QPSK	50	24	14.58	14.43	14.63	15.9	0			
20	QPSK	50	50	14.49	14.49	14.39					
20	QPSK	100	0	14.40	14.57	14.50					
20	16QAM	1	0	14.53	14.48	14.44					
20	16QAM	1	48	14.28	14.39	14.28	15.9	0			
20	16QAM	1	96	14.44	14.48	14.26					
20	16QAM	50	0	14.23	14.45	14.39					
20	16QAM	50	24	14.38	14.34	14.21					
20	16QAM	50	50	14.26	14.31	14.21	15.9	0			
20	16QAM	100	0	14.13	14.36	14.22					
20	64QAM	1	0	14.62	14.61	14.36					
20	64QAM	1	48	14.42	14.53	14.13					
20	64QAM	1	96	14.46	14.54	14.31	15.9	0			
20	64QAM	50	0	14.32	14.44	14.56					
20	64QAM	50	24	14.49	14.30	14.21					
20	64QAM	50	50	14.25	14.24	14.27					
20	64QAM	100	0	14.13	14.36	14.22	15.9	0			
20	256QAM	1	0	14.44	14.46	14.26					
20	256QAM	1	48	14.34	14.36	14.29					
20	256QAM	1	96	14.50	14.46	14.39					
20	256QAM	50	0	14.21	14.55	14.39	15.9	0			
20	256QAM	50	24	14.44	14.28	14.25					
20	256QAM	50	50	14.37	14.32	14.22					
20	256QAM	100	0	14.07	14.41	14.27					
Channel											
Frequency (MHz)											
15	QPSK	1	0	14.61	14.61	14.51	15.9	0			
15	QPSK	1	37	14.46	14.58	14.39					
15	QPSK	1	74	14.50	14.56	14.33					
15	QPSK	36	0	14.45	14.60	14.53					
15	QPSK	36	18	14.52	14.40	14.39	15.9	0			
15	QPSK	36	36	14.44	14.38	14.26					
15	QPSK	75	0	14.43	14.46	14.27					
15	16QAM	1	0	14.42	14.38	14.31					
15	16QAM	1	37	14.21	14.30	14.21	15.9	0			
15	16QAM	1	74	14.44	14.55	14.35					
15	16QAM	36	0	14.10	14.38	14.35					
15	16QAM	36	20	14.32	14.24	14.10					
15	16QAM	36	37	14.25	14.25	14.26	15.9	0			
15	16QAM	75	0	14.07	14.27	14.08					
15	64QAM	1	0	14.42	14.53	14.31					
15	64QAM	1	37	14.44	14.44	14.31					
15	64QAM	1	74	14.39	14.40	14.25	15.9	0			
15	64QAM	36	0	14.26	14.38	14.45					
15	64QAM	36	20	14.42	14.35	14.26					
15	64QAM	36	37	14.15	14.14	14.24					
15	64QAM	75	0	14.04	14.31	14.15	15.9	0			
15	64QAM	1	0	14.41	14.53	14.31					
15	64QAM	1	37	14.20	14.26	14.27					
15	256QAM	1	74	14.42	14.42	14.30					
15	256QAM	36	0	14.23	14.46	14.35	15.9	0			
15	256QAM	36	20	14.35	14.25	14.17					
15	256QAM	36	39	14.32	14.20	14.18					
15	256QAM	75	0	14.18	14.27	14.02					
Channel											
Frequency (MHz)											
10	QPSK	1	0	14.66	14.67	14.42	15.9	0			
10	QPSK	1	25	14.38	14.52	14.24					
10	QPSK	1	49	14.44	14.47	14.32					
10	QPSK	49	0	14.46	14.46	14.39					
10	QPSK	25	12	14.51	14.33	14.30	15.9	0			
10	QPSK	25	25	14.41	14.43	14.38					
10	QPSK	50	0	14.30	14.51	14.51					
10	16QAM	1	0	14.43	14.37	14.36					
10	16QAM	1	25	14.25	14.29	14.17	15.9	0			
10	16QAM	1	49	14.35	14.37	14.31					
10	16QAM	25	0	14.20	14.42	14.28					
10	16QAM	25	12	14.34	14.28	14.18					
10	16QAM	25	12	14.17	14.26	14.07	15.9	0			
10	16QAM	50	0	14.07	14.30	14.00					
10	64QAM	1	0	14.45	14.55	14.22					
10	64QAM	1	25	14.40	14.41	14.15					
10	64QAM	1	49	14.41	14.45	14.28	15.9	0			
10	64QAM	25	0	14.28	14.32	14.24	15.9	0			
10	64QAM	25	12	14.42	14.35	14.26					
10	64QAM	25	12	14.37	14.31	14.27					
10	64QAM	50	0	14.17	14.44	14.27					
10	64QAM	25	12	14.17	14.44	14.27	15.9	0			
10	64QAM	25	12	14.42	14.37	14.17					
10	64QAM	25	12	14.33	14.24	14.11					
10	64QAM	50	0	14.18	14.38	14.10					
Channel											
Frequency (MHz)											
5	QPSK	1	0	17.15	17.16	17.17	15.9	0			
5	QPSK	1	0	16.84	16.88	16.84					
5	QPSK	1	12	14.67	14.61	14.29					
5	QPSK	1	12	14.51	14.62	14.30					
5	QPSK	12	0	14.40	14.62	14.40	15.9	0			
5	QPSK	12	7	14.52	14.30	14.29					
5	QPSK	12	14	14.17	14.38	14.38					
5	QPSK	25	0	14.30	14.53	14.19					
5	QPSK	25	0	14.50	14.48	14.36	15.9	0			
5	QPSK	25	12	14.17	14.38	14.38					
5	QPSK	25	12	14.17	14.38	14.38					
5	QPSK	25	12	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38					
5	QPSK	12	0	14.17	14.38	14.38	15.9	0			
5	QPSK										



Band 38 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)				37650	38050	38450			
20	QPSK	1	0	17.78	17.87	17.78		18.6	0
20	QPSK	1	48	17.57	17.84	17.72			
20	QPSK	1	88	17.57	17.74	17.64			
20	QPSK	50	0	17.68	17.83	17.72			
20	QPSK	50	24	17.69	17.75	17.72		18.6	0
20	QPSK	50	50	17.58	17.79	17.66			
20	QPSK	100	0	17.49	17.71	17.66			
20	HQAM	1	0	17.66	17.76	17.64		18.6	0
20	HQAM	1	48	17.56	17.79	17.66			
20	HQAM	1	99	17.67	17.66	17.62			
20	HQAM	50	0	17.73	17.75	17.71			
20	HQAM	50	24	17.58	17.66	17.61		18.6	0
20	HQAM	50	50	17.73	17.75	17.66			
20	HQAM	100	0	17.46	17.72	17.61			
20	BAGAM	1	0	17.78	17.55	17.67			
20	BAGAM	1	48	17.53	17.67	17.67		18.6	0
20	BAGAM	1	99	17.60	17.51	17.58			
20	BAGAM	50	0	17.65	17.66	17.54			
20	BAGAM	50	24	17.75	17.68	17.65		18.6	0
20	BAGAM	50	50	17.54	17.60	17.60			
20	BAGAM	100	0	17.39	17.66	17.64			
20	25SQAM	1	0	15.92	15.93	15.91			
20	25SQAM	1	48	15.92	15.88	15.78		17	1.6
20	25SQAM	1	99	15.87	15.91	15.76			
20	25SQAM	50	0	15.86	15.82	15.71			
20	25SQAM	50	24	15.78	15.87	15.74		17	1.6
20	25SQAM	50	50	15.71	15.76	15.71			
20	25SQAM	100	0	15.59	15.73	15.67			
Channel									
Frequency (MHz)				37650	38050	38450	Turn-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	17.72	17.83	17.66			
15	QPSK	1	37	17.45	17.68	17.61		18.6	0
15	QPSK	1	74	17.63	17.69	17.69			
15	QPSK	36	0	17.56	17.79	17.64			
15	QPSK	36	20	17.57	17.64	17.62		18.6	0
15	QPSK	36	50	17.66	17.67	17.71			
15	QPSK	75	0	17.36	17.68	17.60			
15	HQAM	1	0	17.53	17.66	17.77			
15	HQAM	1	37	17.56	17.59	17.66		18.6	0
15	HQAM	1	74	17.55	17.65	17.54			
15	HQAM	36	0	17.54	17.78	17.67			
15	HQAM	36	20	17.62	17.72	17.66		18.6	0
15	HQAM	36	50	17.42	17.60	17.60			
15	HQAM	75	0	17.38	17.73	17.52			
15	HQAM	75	37	17.67	17.67	17.71			
15	BAGAM	1	0	17.49	17.76	17.58		18.6	0
15	BAGAM	1	37	17.50	17.76	17.57			
15	BAGAM	36	0	17.54	17.74	17.66			
15	BAGAM	36	20	17.69	17.79	17.77		18.6	0
15	BAGAM	36	50	17.64	17.64	17.64			
15	BAGAM	75	0	17.29	17.65	17.60			
15	25SQAM	1	0	15.79	15.86	15.82			
15	25SQAM	1	37	15.79	15.86	15.82		17	1.6
15	25SQAM	1	74	15.84	15.85	15.69			
15	25SQAM	36	0	15.79	15.77	15.67			
15	25SQAM	36	20	15.74	15.84	15.66		17	1.6
15	25SQAM	36	50	15.64	15.66	15.65			
15	25SQAM	75	0	15.55	15.69	15.63			
Channel									
Frequency (MHz)				25175	25575	25975	Turn-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	17.75	17.67	17.75			
5	QPSK	1	12	17.68	17.67	17.61		18.6	0
5	QPSK	1	24	17.54	17.67	17.65			
5	QPSK	12	0	17.64	17.77	17.62			
5	QPSK	12	7	17.63	17.62	17.60		18.6	0
5	QPSK	12	13	17.35	17.68	17.64			
5	HQAM	1	0	17.62	17.70	17.71			
5	HQAM	1	12	17.60	17.71	17.65		18.6	0
5	HQAM	1	24	17.54	17.68	17.67			
5	HQAM	12	0	17.46	17.61	17.64			
5	HQAM	12	7	17.62	17.65	17.65		18.6	0
5	HQAM	12	13	17.36	17.67	17.66			
5	HQAM	25	0	17.46	17.72	17.66			
5	HQAM	25	12	17.67	17.68	17.67		18.6	0
5	HQAM	25	12	17.65	17.65	17.65			
5	BAGAM	1	0	17.50	17.68	17.56			
5	BAGAM	1	12	17.53	17.66	17.65		18.6	0
5	BAGAM	1	24	17.46	17.61	17.64			
5	BAGAM	12	0	17.63	17.65	17.65			
5	BAGAM	12	7	17.62	17.65	17.65		18.6	0
5	BAGAM	12	13	17.52	17.71	17.77			
5	BAGAM	25	0	17.34	17.77	17.71			
5	25SQAM	1	0	15.80	15.86	15.79			
5	25SQAM	1	12	15.79	15.78	15.74		17	1.6
5	25SQAM	1	24	15.75	15.85	15.72			
5	25SQAM	12	0	15.79	15.72	15.72			
5	25SQAM	12	7	15.70	15.77	15.67		17	1.6
5	25SQAM	12	13	15.61	15.73	15.60			
5	25SQAM	25	0	15.71	15.73	15.67			

Band 41 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)				38950	40165	40600	41035	41460	
20	QPSK	1	0	17.63	17.51	17.93	17.80	17.96	
20	QPSK	1	48	17.70	17.83	18.03	17.83	17.68	18.6
20	QPSK	1	88	17.56	17.81	18.07	17.81	17.75	
20	QPSK	50	0	17.85	17.83	18.01	17.84	17.62	
20	QPSK	50	24	17.83	17.94	18.00	17.87	17.59	18.6
20	QPSK	50	50	17.76	17.74	17.85	17.86	17.58	
20	QPSK	100	0	17.62	17.74	17.94	17.88	17.63	
20	16QAM	1	0	17.77	17.78	17.88	17.90	17.78	18.6
20	16QAM	1	48	17.71	17.86	17.92	17.78	17.58	
20	16QAM	1	99	17.86	17.81	18.01	17.86	17.73	
20	16QAM	50	0	17.77	17.71	17.85	17.86	17.49	
20	16QAM	50	24	17.71	17.86	17.88	17.86	17.56	18.6
20	16QAM	50	50	17.74	17.62	17.88	17.80	17.57	
20	16QAM	100	0	17.66	17.65	17.80	17.69	17.50	
20	64QAM	1	0	17.75	17.84	17.97	17.87	17.67	
20	64QAM	1	48	17.68	17.89	17.96	17.78	17.64	18.6
20	64QAM	1	99	17.86	17.84	17.99	17.86	17.54	
20	64QAM	50	0	17.71	17.73	17.96	17.81	17.49	
20	64QAM	50	24	17.71	17.91	17.94	17.89	17.52	18.6
20	64QAM	50	50	17.68	17.71	17.95	17.88	17.51	
20	64QAM	100	0	17.73	17.80	17.91	17.80	17.50	
20	25QAM	1	0	17.73	17.81	18.04	17.82	17.73	
20	25QAM	1	48	17.64	17.77	17.95	17.77	17.56	18.6
20	25QAM	1	99	17.87	17.86	17.99	17.77	17.70	
20	25QAM	50	0	17.74	17.77	17.90	17.72	17.50	
20	25QAM	50	24	17.75	17.88	17.96	17.82	17.54	18.6
20	25QAM	50	50	17.66	17.87	17.88	17.69	17.52	
20	25QAM	100	0	17.75	17.67	17.81	17.68	17.48	
Channel									
Frequency (MHz)				38950	40173	40600	41068	41515	
15	QPSK	1	0	17.73	17.81	18.00	17.83	17.60	
15	QPSK	1	37	17.61	17.72	17.96	17.72	17.56	19
15	QPSK	1	74	17.83	17.87	17.96	17.81	17.51	
15	QPSK	36	0	17.62	17.80	17.95	17.74	17.57	
15	QPSK	36	20	17.73	17.85	17.92	17.83	17.51	18.6
15	QPSK	36	50	17.66	17.77	17.86	17.72	17.46	
15	QPSK	75	0	17.72	17.64	17.91	17.81	17.53	
15	16QAM	1	0	17.73	17.73	17.85	17.78	17.78	
15	16QAM	1	37	17.66	17.80	17.89	17.80	17.48	18.6
15	16QAM	1	74	17.81	17.70	17.87	17.83	17.69	
15	16QAM	36	0	17.64	17.87	17.82	17.78	17.42	
15	16QAM	36	20	17.67	17.76	17.80	17.80	17.41	18.6
15	16QAM	36	50	17.64	17.58	17.73	17.84	17.51	
15	16QAM	75	0	17.56	17.86	17.79	17.70	17.48	
15	25QAM	1	0	17.71	17.70	17.83	17.82	17.49	
15	25QAM	1	37	17.54	17.83	17.92	17.70	17.51	18.6
15	25QAM	1	74	17.76	17.73	17.85	17.78	17.67	
15	25QAM	36	0	17.65	17.84	17.90	17.75	17.46	
15	25QAM	36	20	17.66	17.86	17.87	17.77	17.46	18.6
15	25QAM	36	50	17.64	17.61	17.82	17.80	17.43	
15	25QAM	75	0	17.67	17.56	17.83	17.75	17.35	
15	25QAM	75	37	17.66	17.73	17.81	17.74	17.60	18.6
15	25QAM	75	74	17.60	17.72	17.81	17.78	17.63	
15	25QAM								
Channel									
Frequency (MHz)				38950	40186	40600	41060	41540	
10	QPSK	1	0	17.63	17.51	17.93	17.80	17.96	
10	QPSK	1	25	17.64	17.74	17.93	17.77	17.66	19
10	QPSK	1	50	17.56	17.81	18.07	17.81	17.75	
10	QPSK	20	0	17.82	17.72	17.93	17.71	17.56	
10	QPSK	20	12	17.77	17.84	17.94	17.85	17.48	18.6
10	QPSK	20	25	17.76	17.83	17.95	17.86	17.50	
10	QPSK	50	0	17.73	17.70	17.83	17.76	17.52	
10	16QAM	1	0	17.66	17.59	17.84	17.78	17.43	
10	16QAM	1	25	17.65	17.85	17.98	17.86	17.44	18.6
10	16QAM	1	49	17.76	17.73	17.82	17.80	17.83	
10	16QAM	20	0	17.66	17.59	17.84	17.74	17.36	
10	16QAM	20	12	17.63	17.75	17.83	17.86	17.47	18.6
10	16QAM	20	25	17.67	17.50	17.82	17.78	17.48	
10	16QAM	50	0	17.62	17.62	17.82	17.74	17.48	
10	64QAM	1	0	17.72	17.81	17.92	17.77	17.56	
10	64QAM	1	25	17.45	17.61	17.84	17.65	17.51	18.6
10	64QAM	1	49	17.72	17.79	17.88	17.82	17.71	
10	64QAM	20	0	17.63	17.59	17.88	17.74	17.44	
10	64QAM	20	12	17.65	17.79	17.80	17.81	17.44	18.6
10	64QAM	20	25	17.67	17.63	17.83	17.86	17.42	
10	64QAM	50	0	17.64	17.48	17.82	17.67	17.48	
10	25QAM	1	0	17.73	17.72	17.83	17.74	17.50	
10	25QAM	1	25	17.62	17.66	17.90	17.70	17.59	18.6
10	25QAM	1	49	17.78	17.75	17.86	17.84	17.67	
10	25QAM	20	0	17.65	17.67	17.86	17.68	17.48	
10	25QAM	20	12	17.61	17.76	17.84	17.81	17.49	18.6
10	25QAM	20	25	17.64	17.55	17.80	17.72	17.47	
10	25QAM	50	0	17.75	17.61	17.80	17.68	17.44	
Channel									
Frequency (MHz)				38950	40146	40600	41068	41565	
5	QPSK	1	0	17.73	17.67	17.90	17.80	17.72	
5	QPSK	1	12	17.63	17.76	17.99	17.77	17.66	19
5	QPSK	1	24	17.62	17.86	18.00	17.82	17.69	
5	QPSK	12	0	17.82	17.73	17.96	17.77	17.51	
5	QPSK	12	7	17.79	17.86	17.94	17.83	17.55	
5	QPSK	20	0	17.71	17.69	17.84	17.85	17.57	18.6
5	QPSK	20	1	17.69	17.69	17.96	17.84	17.67	
5	QPSK	20	12	17.71	17.85	17.98	17.84	17.48	18.6
5	16QAM	1	0	17.76	17.69	17.83	17.78	17.61	
5	16QAM	1	24	17.76	17.69	17.83	17.78	17.61	
5	16QAM	12	0	17.64	17.64	17.83	17.69	17.52	18.6
5	16QAM	12	7	17.63	17.84	17.91	17.90	17.49	
5	16QAM	12	13	17.83	17.80	17.81	17.81	17.48	
5	16QAM	20	0	17.62	17.62	17.82	17.76	17.51	18.6
5	64QAM	1	0	17.67	17.81	17.85	17.83	17.65	
5	64QAM	1	12	17.50	17.58	17.83	17.65	17.50	18.6
5	64QAM	1	24	17.77	17.73	17.82	17.79	17.71	
5	64QAM	12	13	17.61	17.61	17.80	17.80	17.47	
5	64QAM	20	0	17.66	17.64	17.83	17.77	17.46	
5	25QAM	1	0	17.77	17.73	17.83	17.79	17.45	
5	25QAM	1	12	17.65	17.76	17.82	17.80	17.47	18.6
5	25QAM	12	7	17.61	17.61	17.80	17.80	17.47	
5	25QAM	12	7	17.61	17.84	17.81	17.79	17.48	
5	25QAM	12	13	17.63	17.60	17.82	17.94	17.50	
5	25QAM	20	0	17.75	17.64	17.80	17.72	17.54	



		GSM 850 Airt					GSM 850 Airt					GSM 850 Airt		
		Base Average Power (dBm)					Tune-up Limit					Frame Average Power (dBm)		
Tx Channel		158	160	261			158	160	261			158	160	261
Frequency (MHz)		824.2	824.4	844.8			824.2	824.4	844.8			824.2	824.4	844.8
GSM 1 Tx ch		20.86	20.68	20.77			20.50	20.60	20.68			20.77	20.86	21.10
GPRS 1 Tx ch		20.79	20.70	20.63			20.70	20.70	20.70			20.63	20.70	21.10
GPRS 2 Tx ch		20.27	20.44	20.24			20.27	20.44	20.24			20.24	20.24	21.10
GPRS 3 Tx ch		20.07	20.00	20.00			20.00	20.00	20.00			20.00	20.00	21.10
GPRS 4 Tx ch		20.23	20.18	20.04			20.23	20.18	20.04			20.04	20.18	21.10
EDGE 1 Tx ch		20.10	20.21	20.31			20.10	20.21	20.31			20.31	20.21	21.10
EDGE 2 Tx ch		20.51	20.48	20.05			20.05	20.48	20.51			20.05	20.48	20.51
EDGE 3 Tx ch		20.34	20.30	20.30			20.30	20.30	20.30			20.30	20.30	20.34
EDGE 4 Tx ch		19.78	19.50	19.20			19.20	19.50	19.78			19.20	19.50	19.78
		GSM 1900 Airt					GSM 1900 Airt					GSM 1900 Airt		
		Base Average Power (dBm)					Tune-up Limit					Frame Average Power (dBm)		
Tx Channel		1512	1512	1512			1512	1512	1512			1512	1512	1512
Frequency (MHz)		1850.2	1850	1850.8			1850.2	1850	1850.8			1850.2	1850	1850.8
GSM 1 Tx ch		16.10	16.11	16.12			16.10	16.11	16.12			16.10	16.11	16.12
GPRS 1 Tx ch		15.75	15.84	15.72			15.75	15.84	15.72			15.75	15.84	15.72
GPRS 2 Tx ch		17.62	17.68	17.47			17.62	17.68	17.47			17.62	17.68	17.47
GPRS 3 Tx ch		16.13	16.14	15.60			15.60	16.14	16.13			15.60	16.14	16.13
GPRS 4 Tx ch		16.70	16.77	16.71			16.70	16.77	16.71			16.70	16.77	16.71
EDGE 1 Tx ch		15.12	15.17	15.64			15.12	15.17	15.64			15.12	15.17	15.64
EDGE 2 Tx ch		15.36	15.40	15.27			15.20	15.36	15.40			15.20	15.36	15.40
EDGE 3 Tx ch		12.10	12.10	12.03			12.10	12.10	12.03			12.10	12.10	12.03
EDGE 4 Tx ch		9.97	9.90	9.97			9.97	9.90	9.97			9.97	9.90	9.97
		WCDMA 8 Airt					WCDMA 8 Airt					WCDMA 8 Airt		
		Base					Tune-up Limit					WCDMA 8 Airt		
Tx Channel		8602	8602	8602			8602	8602	8602			8602	8602	8602
Frequency (MHz)		1852.4	1852	1852.8			1852.4	1852	1852.8			1852.4	1852	1852.8
ISPP Run#1		11.05	11.11	11.07			11.05	11.11	11.07			11.05	11.11	11.07
ISPP Run#2		11.15	11.22	11.13			11.15	11.22	11.13			11.15	11.22	11.13
ISPP Run#3		10.33	10.22	10.27			10.33	10.22	10.27			10.33	10.22	10.27
ISPP Run#4		10.03	10.22	10.20			10.03	10.22	10.20			10.03	10.22	10.20
ISPP Run#5		8.75	8.60	8.61			8.75	8.60	8.61			8.75	8.60	8.61
ISPP Run#6		8.02	8.00	8.00			8.02	8.00	8.00			8.02	8.00	8.00
ISPP Run#7		10.53	10.30	10.21			10.53	10.30	10.21			10.53	10.30	10.21
ISPP Run#8		10.06	10.20	10.07			10.06	10.20	10.07			10.06	10.20	10.07
ISPP Run#9		10.07	10.07	10.17			10.07	10.07	10.17			10.07	10.07	10.17
ISPP Run#10		8.76	8.60	8.61			8.76	8.60	8.61			8.76	8.60	8.61
ISPP Run#11		10.47	10.20	10.32			10.47	10.20	10.32			10.47	10.20	10.32
ISPP Run#12		8.30	8.02	8.07			8.30	8.02	8.07			8.30	8.02	8.07
ISPP Run#13		9.30	9.01	9.03			9.30	9.01	9.03			9.30	9.01	9.03
ISPP Run#14		8.25	8.00	8.71			8.25	8.00	8.71			8.25	8.00	8.71
ISPP Run#15		10.17	10.40	10.30			10.17	10.40	10.30			10.17	10.40	10.30



Band 2 Ant1													
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Mod Ch./F.Freq.	Power Hsp Ch./F.Freq.	Power Hsp Ch./F.Freq.	Turn-up Time (sec)	MPR (dB)					
Channel													
Frequency [MHz]													
20	QPSK	1	0	11.79	11.84	11.88	13	0					
20	QPSK	1	49	11.82	11.84	11.82							
20	QPSK	1	99	11.87	11.71	11.89							
20	QPSK	50	0	11.86	11.75	11.48	13	0					
20	QPSK	50	24	11.89	11.87	11.54							
20	QPSK	50	50	11.84	11.49	11.42							
20	QPSK	100	0	11.83	11.75	11.81	13	0					
20	QPSK	100	24	11.87	11.77	11.74							
20	QPSK	100	50	11.82	11.77	11.74							
20	16QAM	1	49	11.55	11.62	11.46	13	0					
20	16QAM	50	99	11.45	11.54	11.43							
20	16QAM	50	99	11.51	11.54	11.47		13	0				
20	16QAM	50	24	11.56	11.45	11.41	13						
20	16QAM	100	0	11.59	11.77	11.51							
20	16QAM	1	49	11.37	11.50	11.41	13	0					
20	16QAM	50	0	11.52	11.74	11.39			13				
20	16QAM	50	24	11.57	11.81	11.36							
20	16QAM	50	50	11.50	11.42	11.42	13	0					
20	16QAM	100	0	11.63	11.50	11.60							
20	16QAM	1	49	11.44	11.56	11.45	13	0					
20	16QAM	1	99	11.51	11.54	11.47			13	0			
20	16QAM	25	11.79	11.76	11.51								
20	16QAM	50	0	11.52	11.74	11.39	13	0					
20	16QAM	50	24	11.57	11.81	11.36			13				
20	16QAM	100	0	11.63	11.48	11.28							
Channel													
Frequency [MHz]													
15	QPSK	1	0	16.975	16.980	16.953	13	0					
15	QPSK	1	49	16.97	16.82	16.52							
15	QPSK	1	99	11.87	11.75	11.54		13	0				
15	QPSK	1	24	11.47	11.81	11.31	13		0				
15	QPSK	1	74	11.35	11.60	11.58							
15	QPSK	36	0	11.62	11.70	11.36	13	0					
15	QPSK	36	49	11.40	11.48	11.45			13	0			
15	QPSK	36	99	11.31	11.41	11.35							
15	QPSK	75	0	11.60	11.67	11.31	13	0					
15	QPSK	75	0	11.57	11.68	11.66			13	0			
15	16QAM	1	37	11.46	11.48	11.55							
15	16QAM	1	74	11.35	11.50	11.38	13	0					
15	16QAM	36	20	11.53	11.49	11.37			13	0			
15	16QAM	36	20	11.44	11.39	11.30	13	0					
15	16QAM	36	49	11.50	11.53	11.42		13	0				
15	16QAM	75	0	11.45	11.54	11.29		13	0				
15	16QAM	1	0	11.66	11.67	11.39	13	0					
15	16QAM	1	99	11.50	11.53	11.42		13	0				
15	16QAM	1	24	11.41	11.57	11.51		13	0				
15	16QAM	36	0	11.41	11.61	11.27	13	0					
15	16QAM	36	49	11.51	11.56	11.39		13	0				
15	16QAM	36	99	11.44	11.37	11.37		13	0				
15	16QAM	75	0	11.66	11.46	11.56	13	0					
15	16QAM	75	0	11.63	11.45	11.54		13	0				
15	16QAM	1	37	11.34	11.49	11.36		13	0				
15	16QAM	1	74	11.48	11.46	11.34	13	0					
15	16QAM	36	0	11.48	11.48	11.43		13	0				
15	16QAM	36	20	11.54	11.29	11.39	13	0					
15	16QAM	36	20	11.54	11.29	11.39			13	0			
15	16QAM	36	49	11.34	11.38	11.22			13	0			
15	16QAM	75	0	11.50	11.59	11.36			13	0			
Channel													
Frequency [MHz]													
10	QPSK	1	0	11.715	11.712	11.715	12.8	0					
10	QPSK	1	49	11.71	11.71	11.71							
10	QPSK	1	99	11.71	11.71	11.71		12.8	0				
10	QPSK	1	24	11.71	11.71	11.71	12.8	0					
10	QPSK	1	74	11.71	11.71	11.71		12.8	0				
10	QPSK	12	0	11.71	11.71	11.71	12.8	0					
10	QPSK	12	49	11.71	11.71	11.71		12.8	0				
10	QPSK	12	99	11.71	11.71	11.71		12.8	0				
10	QPSK	25	0	11.71	11.71	11.71	12.8	0					
10	QPSK	25	49	11.71	11.71	11.71		12.8	0				
10	QPSK	25	99	11.71	11.71	11.71		12.8	0				
10	QPSK	36	0	11.71	11.71	11.71	12.8	0					
10	QPSK	36	49	11.71	11.71	11.71		12.8	0				
10	QPSK	36	99	11.71	11.71	11.71		12.8	0				
10	QPSK	75	0	11.71	11.71	11.71	12.8	0					
10	QPSK	75	0	11.71	11.71	11.71		12.8	0				
10	QPSK	75	49	11.71	11.71	11.71		12.8	0				
10	QPSK	75	99	11.71	11.71	11.71	12.8	0					
10	QPSK	100	0	11.71	11.71	11.71	12.8	0					
10	QPSK	100	49	11.71	11.71	11.71		12.8	0				
10	QPSK	100	99	11.71	11.71	11.71		12.8	0				
10	QPSK	125	0	11.71	11.71	11.71	12.8	0					
10	QPSK	125	49	11.71	11.71	11.71		12.8	0				
10	QPSK	125	99	11.71	11.71	11.71		12.8	0				
10	QPSK	150	0	11.71	11.71	11.71	12.8	0					
10	QPSK	150	49	11.71	11.71	11.71		12.8	0				
10	QPSK	150	99	11.71	11.71	11.71		12.8	0				
10	QPSK	175	0	11.71	11.71	11.71	12.8	0					
10	QPSK	175	49	11.71	11.71	11.71		12.8	0				
10	QPSK	175	99	11.71	11.71	11.71		12.8	0				
10	QPSK	200	0	11.71	11.71	11.71	12.8	0					
10	QPSK	200	49	11.71	11.71	11.71		12.8	0				
10	QPSK	200	99	11.71	11.71	11.71		12.8	0				
10	QPSK	225	0	11.71	11.71	11.71	12.8	0					
10	QPSK	225	49	11.71	11.71	11.71		12.8	0				
10	QPSK	225	99	11.71	11.71	11.71		12.8	0				
10	QPSK	250	0	11.71	11.71	11.71	12.8	0					
10	QPSK	250	49	11.71	11.71	11.71		12.8	0				
10	QPSK	250	99	11.71	11.71	11.71		12.8	0				
10	QPSK	275	0	11.71	11.71	11.71	12.8	0					
10	QPSK	275	49	11.71	11.71	11.71		12.8	0				
10	QPSK	275	99	11.71	11.71	11.71		12.8	0				
10	QPSK	300	0	11.71	11.71	11.71	12.8	0					
10	QPSK	300	49	11.71	11.71	11.71		12.8	0				
10	QPSK	300	99	11.71	11.71	11.71		12.8	0				
10	QPSK	325	0	11.71	11.71	11.71	12.8	0					
10	QPSK	325	49	11.71	11.71	11.71		12.8	0				
10	QPSK	325	99	11.71	11.71	11.71		12.8	0				
10	QPSK	350	0	11.71	11.71	11.71	12.8	0					
10	QPSK	350	49	11.71	11.71	11.71		12.8	0				
10	QPSK	350	99	11.71	11.71	11.71		12.8	0				
10	QPSK	375	0	11.71	11.71	11.71	12.8	0					
10	QPSK	375	49	11.71	11.71	11.71		12.8	0				
10	QPSK	375	99	11.71	11.71	11.71		12.8	0				
10	QPSK	400	0	11.71	11.71	11.71	12.8	0					
10	QPSK	400	49	11.71	11.71	11.71		12.8	0				
10	QPSK	400	9										

Band 12 Ant1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	19.97	19.93	19.99			21.4	0		
10	QPSK	1	25	19.94	19.89	19.93						
10	QPSK	1	49	19.83	19.79	19.83						
10	QPSK	25	0	19.93	19.88	19.94						
10	QPSK	25	12	19.70	19.85	19.94			21.4	0		
10	QPSK	25	25	19.78	19.79	19.91						
10	QPSK	50	0	19.83	19.85	19.74						
10	16QAM	1	0	19.86	19.86	19.83						
10	16QAM	1	25	19.78	19.80	19.72			21.4	0		
10	16QAM	1	49	19.74	19.66	19.83						
10	16QAM	25	0	19.70	19.87	19.78						
10	16QAM	25	12	19.84	19.68	19.71						
10	16QAM	25	25	19.96	19.59	19.65			21.4	0		
10	16QAM	50	0	19.72	19.72	19.51						
10	64QAM	1	0	19.90	19.77	19.95						
10	64QAM	1	25	19.88	19.81	19.90			21.4	0		
10	64QAM	1	49	19.73	19.75	19.81						
10	64QAM	25	0	19.66	19.85	19.90						
10	64QAM	25	12	19.50	19.75	19.98				21.4	0	
10	64QAM	25	25	19.65	19.55	19.76						
10	64QAM	50	0	19.59	19.90	19.83						
Channel												
Frequency (MHz)												
5	QPSK	1	0	19.71	19.81	19.94			21.4	0		
5	QPSK	1	12	19.83	19.72	19.87						
5	QPSK	1	24	19.82	19.72	19.89						
5	QPSK	12	0	19.89	19.82	19.79						
5	QPSK	12	7	19.64	19.61	19.72			21.4	0		
5	QPSK	12	13	19.60	19.64	19.64						
5	QPSK	25	0	19.56	19.84	19.93						
5	16QAM	1	0	19.80	19.75	19.81						
5	16QAM	1	12	19.56	19.61	19.55			21.4	0		
5	16QAM	12	0	19.64	19.62	19.66						
5	16QAM	12	0	19.51	19.72	19.55						
5	16QAM	12	7	19.75	19.45	19.58				21.4	0	
5	16QAM	12	7	19.83	19.58	19.67						
5	16QAM	25	0	19.62	19.60	19.44						
5	64QAM	1	0	19.87	19.80	19.83			20	1.4		
5	64QAM	1	12	19.66	19.80	19.75						
5	64QAM	1	24	19.75	18.62	18.58						
5	64QAM	12	0	19.62	19.65	19.75						
5	256QAM	1	0	19.60	19.58	19.45			20	1.4		
5	256QAM	1	12	19.65	19.60	19.79						
5	256QAM	1	24	19.75	18.75	18.71						
5	256QAM	12	0	19.62	19.65	19.75						
5	256QAM	12	7	19.53	19.70	19.84						
5	256QAM	12	13	19.58	18.75	18.71						
Channel												
Frequency (MHz)												
3	QPSK	1	0	19.61	19.62	19.75			21.4	0		
3	QPSK	1	8	19.76	19.79	19.75						
3	QPSK	1	14	19.60	19.59	19.73						
3	QPSK	8	0	19.77	19.79	19.67						
3	QPSK	8	7	19.62	19.69	19.89			21.4	0		
3	QPSK	8	7	19.58	19.62	19.82						
3	16QAM	1	0	19.71	19.62	19.82						
3	16QAM	1	0	19.81	19.62	19.70				21.4	0	
3	16QAM	1	8	19.62	19.64	19.58						
3	16QAM	1	8	19.64	19.60	19.46						
3	16QAM	8	0	19.48	19.70	19.52				21.4	0	
3	16QAM	8	4	19.48	19.43	19.58						
3	16QAM	8	7	19.43	19.53	19.45						
3	16QAM	15	0	19.52	19.59	19.42						
3	64QAM	1	0	19.69	19.68	19.87			21.4	0		
3	64QAM	1	8	19.80	19.54	19.70						
3	64QAM	1	14	19.60	19.60	19.48						
3	64QAM	8	0	19.58	19.55	19.61				21.4	0	
3	64QAM	8	4	19.42	19.50	19.53						
3	64QAM	8	7	19.58	19.43	19.72						
3	256QAM	1	0	19.65	19.62	19.57						
3	256QAM	1	8	19.74	19.70	19.61			20	1.4		
3	256QAM	1	14	19.74	18.62	18.76						
3	256QAM	8	0	19.60	19.65	19.67						
3	256QAM	8	4	19.49	19.78	19.73						
3	256QAM	8	7	19.54	19.65	19.79			20	1.4		
3	256QAM	15	0	19.78	19.75	19.75						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	19.51	19.55	19.76			21.4	0		
1.4	QPSK	1	3	19.82	19.56	19.61						
1.4	QPSK	1	5	19.68	19.52	19.72						
1.4	QPSK	3	0	19.82	19.75	19.67						
1.4	QPSK	3	1	19.57	19.62	19.70			21.4	0		
1.4	QPSK	3	3	19.70	19.71	19.80						
1.4	16QAM	1	0	19.80	19.70	19.58						
1.4	16QAM	1	0	19.71	19.61	19.57				21.4	0	
1.4	16QAM	1	8	19.71	19.61	19.50						
1.4	16QAM	3	0	19.49	19.81	19.52						
1.4	16QAM	3	1	19.41	19.60	19.59						
1.4	16QAM	3	3	19.42	19.50	19.40			21.4	0		
1.4	16QAM	6	0	19.48	19.58	19.48						
1.4	64QAM	1	0	19.64	19.60	19.68						
1.4	64QAM	1	3	19.78	19.58	19.63				21.4	0	
1.4	64QAM	1	5	19.47	19.64	19.47						
1.4	64QAM	3	0	19.48	19.56	19.72						
1.4	64QAM	3	3	19.44	19.54	19.59						
1.4	64QAM	3	3	19.60	19.40	19.54			21.4	0		
1.4	64QAM	6	0	19.49	19.60	19.57						
1.4	256QAM	1	0	19.63	19.84	19.77						
1.4	256QAM	1	3	19.73	19.73	19.78						
1.4	256QAM	1	5	19.64	19.74	19.76			20	1.4		
1.4	256QAM	3	0	19.72	19.86	19.85						
1.4	256QAM	3	1	19.64	19.89	19.62						
1.4	256QAM	6	0	19.51	19.65	19.70						

Band 13 Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0		782	782			21.3	0
10	QPSK	1	25		782					
10	QPSK	1	49		782					
10	QPSK	25	0		782					
10	QPSK	25	12		782				21.3	0
10	QPSK	25	25		782					
10	QPSK	50	0		782					
10	16QAM	1	0		782					
10	16QAM	1	25		782				21.3	0
10	16QAM	1	49		782					
10	16QAM	25	0		782					
10	16QAM	25	12		782					
10	16QAM	25	25		782				21.3	0
10	16QAM	50	0		782					
10	16QAM	1	25		782					
10	16QAM	1	49		782					
10	16QAM	25	12		782				21.3	0
10	16QAM	25	25		782					
10	16QAM	50	0		782					
10	16QAM	1	0		782					
10	25QAM	1	0		782				20	1.3
10	25QAM	1	25		782					
10	25QAM	1	49		782					
10	25QAM	25	0		782					
10	25QAM	25	12		782				20	1.3
10	25QAM	25	25		782					
10	25QAM	50	0		782					
10	25QAM	1	0		782					
Channel				776.5	782	787.5				
Frequency (MHz)				776.5	782	787.5				
5	QPSK	1	0	78.80	78.82	78.84			21.3	0
5	QPSK	1	12	78.72	78.69	78.65				
5	QPSK	1	24	78.61	78.76	78.78				
5	QPSK	12	0	78.50	78.70	78.82				
5	QPSK	12	7	78.72	78.67	78.69			21.3	0
5	QPSK	12	14	78.60	78.60	78.72				
5	QPSK	25	0	78.69	78.86	78.87				
5	16QAM	1	0	78.63	78.65	78.61				
5	16QAM	1	12	78.71	78.56	78.56			21.3	0
5	16QAM	1	24	78.67	78.70	78.84				
5	16QAM	12	0	78.67	78.65	78.74				
5	16QAM	12	7	78.68	78.52	78.67				
5	16QAM	12	13	78.65	78.52	78.58			21.3	0
5	16QAM	25	0	78.78	78.76	78.68				
5	16QAM	1	0	78.51	78.62	78.55				
5	16QAM	1	12	78.51	78.56	78.66				
5	16QAM	1	24	78.70	78.84	78.77			21.3	0
5	16QAM	12	0	78.68	78.75	78.76				
5	16QAM	12	7	78.68	78.82	78.69				
5	16QAM	12	13	78.56	78.49	78.48				
5	25QAM	1	0	78.62	78.48	78.43			20	1.3
5	25QAM	1	0	78.09	78.04	78.15				
5	25QAM	1	12	78.00	78.09	78.08				
5	25QAM	12	0	78.04	78.12	78.02				
5	25QAM	12	24	78.14	78.28	78.18			20	1.3
5	25QAM	12	7	78.19	78.19	78.12				
5	25QAM	25	0	78.19	78.36	78.33				
5	25QAM	25	0	78.36	78.38	78.33				



Band 25 Ant1														
BM (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 26140	Power Mid Ch / Freq. 26340	Power High Ch / Freq. 26590	Turn-up Int. (dB)	MPN (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	11.92	11.95	11.87	13	0						
20	QPSK	1	49	11.72	11.71	11.85								
20	QPSK	1	99	11.71	11.80	11.81								
20	QPSK	50	0	11.87	11.89	11.71								
20	QPSK	50	24	11.75	11.73	11.83	13	0						
20	QPSK	50	50	11.82	11.64	11.68								
20	QPSK	100	0	11.81	11.84	11.69								
20	16QAM	1	0	11.79	11.84	11.80								
20	16QAM	1	49	11.86	11.85	11.81	13	0						
20	16QAM	1	99	11.83	11.88	11.70								
20	16QAM	50	0	11.75	11.77	11.87								
20	16QAM	50	24	11.82	11.59	11.59								
20	16QAM	50	50	11.86	11.82	11.62	13	0						
20	16QAM	100	0	11.88	11.79	11.59								
20	16QAM	1	0	11.83	11.88	11.76								
20	8QAM	1	49	11.81	11.99	11.96								
20	8QAM	1	99	11.83	11.73	11.71	13	0						
20	8QAM	50	0	11.79	11.85	11.67								
20	8QAM	50	24	11.72	11.85	11.49								
20	8QAM	50	50	11.58	11.57	11.45								
20	8QAM	100	0	11.78	11.73	11.54	13	0						
20	8QAM	1	0	11.86	11.81	11.63								
20	256QAM	1	49	11.66	11.87	11.51								
20	256QAM	1	99	11.60	11.73	11.73								
20	256QAM	50	0	11.76	11.54	11.65	13	0						
20	256QAM	50	24	11.72	11.70	11.60								
20	256QAM	50	50	11.58	11.67	11.46								
20	256QAM	100	0	11.75	11.73	11.53								
Channel														
Frequency (MHz)														
15	QPSK	1	0	1857.5	1880	1907.5	13	0						
15	QPSK	1	37	11.89	11.86	11.84								
15	QPSK	1	74	11.60	11.73	11.76								
15	QPSK	36	0	11.81	11.77	11.82								
15	QPSK	36	20	11.70	11.68	11.64	13	0						
15	QPSK	36	36	11.54	11.61	11.61								
15	QPSK	75	0	11.78	11.79	11.87								
15	16QAM	1	0	11.72	11.73	11.70								
15	16QAM	1	37	11.64	11.67	11.58	13	0						
15	16QAM	1	74	11.56	11.59	11.58								
15	16QAM	36	0	11.63	11.63	11.62								
15	16QAM	36	20	11.50	11.50	11.47								
15	16QAM	36	36	11.49	11.49	11.47	13	0						
15	16QAM	75	0	11.61	11.72	11.56								
15	8QAM	1	0	11.79	11.82	11.65								
15	8QAM	1	37	11.48	11.48	11.47								
15	8QAM	1	74	11.52	11.60	11.55	13	0						
15	8QAM	36	0	11.73	11.69	11.54								
15	8QAM	36	20	11.47	11.56	11.47								
15	8QAM	36	36	11.54	11.50	11.37								
15	8QAM	75	0	11.76	11.74	11.55	13	0						
15	256QAM	1	0	11.86	11.75	11.73								
15	256QAM	1	37	11.61	11.60	11.57								
15	256QAM	1	74	11.52	11.61	11.68								
15	256QAM	36	0	11.66	11.73	11.62	13	0						
15	256QAM	36	20	11.68	11.65	11.52								
15	256QAM	36	36	11.49	11.52	11.35								
15	256QAM	75	0	11.68	11.70	11.54								
Channel														
Frequency (MHz)														
10	QPSK	1	0	1855	1880	1910	13	0						
10	QPSK	1	25	11.70	11.66	11.63								
10	QPSK	1	49	11.69	11.72	11.74								
10	QPSK	25	0	11.74	11.76	11.81								
10	QPSK	25	12	11.67	11.71	11.81	13	0						
10	QPSK	25	25	11.56	11.62	11.64								
10	QPSK	80	0	11.75	11.76	11.80								
10	16QAM	1	0	11.74	11.70	11.73								
10	16QAM	1	25	11.61	11.63	11.49	13	0						
10	16QAM	1	49	11.50	11.58	11.68								
10	16QAM	25	0	11.65	11.70	11.53								
10	16QAM	25	12	11.52	11.54	11.43								
10	16QAM	25	25	11.52	11.54	11.36	13	0						
10	16QAM	80	0	11.58	11.68	11.45								
10	8QAM	1	0	11.79	11.76	11.69								
10	8QAM	1	25	11.53	11.57	11.52								
10	8QAM	1	49	11.50	11.70	11.63	13	0						
10	8QAM	25	0	11.71	11.72	11.43								
10	8QAM	25	12	11.61	11.54	11.43								
10	8QAM	25	25	11.52	11.54	11.36								
10	8QAM	50	0	11.67	11.71	11.63	13	0						
10	256QAM	1	0	11.78	11.73	11.71								
10	256QAM	1	25	11.63	11.63	11.47								
10	256QAM	1	49	11.47	11.62	11.66								
10	256QAM	25	0	11.71	11.62	11.55	13	0						
10	256QAM	25	12	11.76	11.59	11.51								
10	256QAM	25	25	11.48	11.47	11.43								
10	256QAM	50	0	11.71	11.65	11.44								
Channel														
Frequency (MHz)														
5	QPSK	1	0	11.63	11.64	11.57	13	0						
5	QPSK	1	12	11.69	11.65	11.60								
5	QPSK	1	24	11.62	11.67	11.73								
5	QPSK	12	0	11.82	11.77	11.59								
5	QPSK	12	7	11.62	11.64	11.53	13	0						
5	QPSK	12	13	11.50	11.58	11.45								
5	QPSK	25	0	11.76	11.60	11.45								
5	16QAM	1	0	11.77	11.73	11.67								
5	16QAM	1	12	11.63	11.58	11.51	13	0						
5	16QAM	1	24	11.56	11.64	11.64								
5	16QAM	12	0	11.82	11.69	11.61								
5	16QAM	12	7	11.53	11.45	11.47								
5	16QAM	12	13	11.51	11.48	11.47	13	0						
5	16QAM	25	0	11.61	11.69	11.59								
5	8QAM	1	0	11.79	11.83	11.66								
5	8QAM	1	12	11.56	11.45	11.47								
5	8QAM	1	24	11.59	11.67	11.59	13	0						
5	8QAM	12	0	11.76	11.80	11.51								
5	8QAM	12	7	11.64	11.58	11.59								
5	8QAM	12	13	11.48	11.48	11.38								
5	8QAM	25	0	11.70	11.69	11.62	13	0						
5	256QAM	1	0	11.82	11.71	11.74								
5	256QAM	1	12	11.67	11.54	11.								



Band 30 Ant1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power Hgh Ch / Freq.	Time-up (sec)	APR (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	14.15	14.15	14.15	15.3	0			
10	QPSK	1	25	13.94	13.94	13.94					
10	QPSK	1	49	13.88	13.88	13.88					
10	QPSK	25	0	14.05	14.05	14.05	15.3	0			
10	QPSK	25	12	13.99	13.99	13.99					
10	QPSK	25	25	13.89	13.89	13.89					
10	QPSK	50	0	14.05	14.05	14.05	15.3	0			
10	16QAM	1	25	13.88	13.88	13.88					
10	16QAM	1	49	13.84	13.84	13.84					
10	16QAM	1	49	13.95	13.95	13.95	15.3	0			
10	16QAM	25	12	13.95	13.95	13.95					
10	16QAM	25	25	13.78	13.78	13.78					
10	16QAM	50	0	13.94	13.94	13.94	15.3	0			
10	16QAM	1	0	14.05	14.05	14.05					
10	16QAM	1	25	13.84	13.84	13.84					
10	16QAM	1	49	13.91	13.91	13.91	15.3	0			
10	16QAM	25	0	14.05	14.05	14.05					
10	16QAM	25	12	13.93	13.93	13.93					
10	16QAM	25	25	13.76	13.76	13.76	15.3	0			
10	16QAM	50	0	13.99	13.99	13.99					
10	256QAM	1	0	14.09	14.09	14.09					
10	256QAM	1	25	13.84	13.84	13.84	15.3	0			
10	256QAM	1	49	13.97	13.97	13.97					
10	256QAM	25	12	13.87	13.87	13.87					
10	256QAM	25	25	13.81	13.81	13.81	15.3	0			
10	256QAM	50	0	13.94	13.94	13.94					
10	256QAM	50	0	13.99	13.99	13.99					
Channel											
Frequency (MHz)											
5	QPSK	1	0	14.05	14.04	14.05	15.3	0			
5	QPSK	1	12	13.86	13.87	13.91					
5	QPSK	1	24	13.92	13.87	13.84					
5	QPSK	12	0	13.97	13.97	14.02	15.3	0			
5	QPSK	12	7	13.98	13.93	13.87					
5	QPSK	12	13	13.79	13.76	13.84					
5	QPSK	25	0	13.92	13.92	13.95	15.3	0			
5	16QAM	1	0	13.92	13.88	13.85					
5	16QAM	1	12	13.83	13.78	13.85					
5	16QAM	1	24	13.77	13.74	13.71	15.3	0			
5	16QAM	12	0	13.90	13.85	13.81					
5	16QAM	12	7	13.91	13.86	13.88					
5	16QAM	1	0	13.79	13.82	13.91	15.3	0			
5	16QAM	25	0	13.91	13.87	13.84					
5	16QAM	1	0	13.95	13.96	13.99					
5	16QAM	1	12	13.73	13.74	13.76	15.3	0			
5	16QAM	1	24	13.81	13.86	13.88					
5	16QAM	12	13	13.85	13.75	13.69					
5	16QAM	25	0	13.90	13.89	13.95	15.3	0			
5	256QAM	1	0	14.05	14.03	14.03					
5	256QAM	1	12	13.75	13.61	13.76					
5	256QAM	1	24	13.84	13.80	13.89	15.3	0			
5	256QAM	12	0	13.92	13.92	13.86					
5	256QAM	12	7	13.74	13.65	13.65					
5	256QAM	12	13	13.67	13.75	13.77	15.3	0			
5	256QAM	25	0	13.88	13.85	13.90					

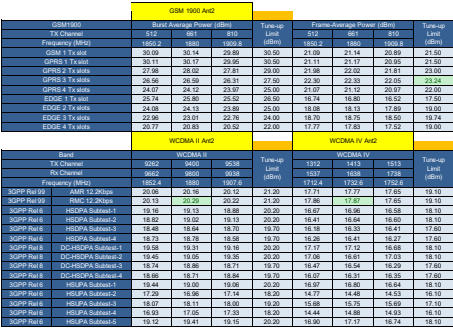
Band 66 Ant1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Time-up (sec)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	11.45	11.54	11.62	12.8	0			
20	QPSK	1	49	11.33	11.33	11.33					
20	QPSK	1	99	11.34	11.38	11.41					
20	QPSK	50	0	11.41	11.44	11.42	12.8	0			
20	QPSK	50	24	11.25	11.25	11.24					
20	QPSK	50	50	11.27	11.30	11.26					
20	QPSK	100	0	11.38	11.42	11.38	12.8	0			
20	16QAM	1	1	11.35	11.45	11.45					
20	16QAM	1	49	11.24	11.26	11.30					
20	16QAM	1	99	11.32	11.24	11.31	12.8	0			
20	16QAM	25	0	11.32	11.49	11.28					
20	16QAM	50	24	11.22	11.30	11.39					
20	16QAM	50	50	11.14	11.20	11.21	12.8	0			
20	16QAM	100	0	11.36	11.29	11.24					
20	16QAM	1	0	11.34	11.42	11.43					
20	16QAM	1	49	11.23	11.25	11.21	12.8	0			
20	16QAM	1	99	11.29	11.24	11.37					
20	16QAM	50	0	11.27	11.35	11.37					
20	256QAM	1	49	11.22	11.24	11.27	12.8	0			
20	256QAM	1	99	11.27	11.33	11.30					
20	256QAM	1	74	11.21	11.26	11.24					
20	256QAM	25	0	11.26	11.34	11.36	12.8	0			
20	256QAM	50	24	11.18	11.25	11.13					
20	256QAM	50	50	11.16	11.27	11.21					
20	256QAM	100	0	11.26	11.29	11.22	12.8	0			
20	256QAM	1	0	11.30	11.32	11.33					
20	256QAM	1	0	11.34	11.42	11.43					
Channel											
Frequency (MHz)											
15	QPSK	1	0	11.35	11.45	11.39	12.8	0			
15	QPSK	1	37	11.21	11.19	11.25					
15	QPSK	1	74	11.31	11.26	11.34					
15	QPSK	36	0	11.31	11.31	11.32	12.8	0			
15	QPSK	36	39	11.21	11.21	11.20					
15	QPSK	36	39	11.24	11.27	11.13					
15	QPSK	75	0	11.27	11.39	11.25	12.8	0			
15	QPSK	75	0	11.32	11.46	11.35					
15	16QAM	1	37	11.21	11.26	11.18					
15	16QAM	36	0	11.36	11.45	11.41	12.8	0			
15	16QAM	36	20	11.19	11.35	11.19					
15	16QAM	36	20	11.11	11.17	11.11					
15	16QAM	36	20	11.16	11.25	11.13	12.8	0			
15	16QAM	75	0	11.25	11.21	11.20					
15	16QAM	75	0	11.24	11.34	11.37					
15	16QAM	1	0	11.29	11.30	11.27	12.8	0			
15	16QAM	1	74	11.21	11.14	11.27					
15	16QAM	36	0	11.25	11.25	11.28					
15	16QAM	36	39	11.14	11.13	11.05	12.8	0			
15	16QAM	36	39	11.17	11.20	11.18					
15	16QAM	75	0	11.27	11.20	11.18					
15	256QAM	1	37	11.10	11.10	11.10	12.8	0			
15	256QAM	1	74	11.16	11.26	11.25					
15	256QAM	36	0	11.26	11.33	11.24					
15	256QAM	36	20	11.14	11.22	11.09	12.8	0			
15	256QAM	36	39	11.05	11.14	11.17					
15	256QAM	75	0	11.20	11.25	11.17					
Channel											
Frequency (MHz)											
10	QPSK	1	0	11.45	11.45	11.45	12.8	0			
10	QPSK	1	25	11.23	11.21	11.22					
10	QPSK	1	49	11.24	11.27	11.33					
10	QPSK	12	0	11.23	11.23	11.24	12.8	0			
10	QPSK	12	13	11.19	11.19	11.14					
10	QPSK	25	12	11.19	11.19	11.14					
10	QPSK	25	25	11.22	11.19	11.14	12.8	0			
10	QPSK	50	0	11.26	11.26	11.27					
10	16QAM	1	0	11.24	11.44	11.41					
10	16QAM	1	25	11.21	11.16	11.24	12.8	0			
10	16QAM	1	49	11.21	11.18	11.19					
10	16QAM	25	0	11.26	11.32	11.19					
10	16QAM	25	12	11.19	11.18	11.10					
10	16QAM	25	25	11.16	11.16	11.12	12.8	0			
10	16QAM	50	0	11.28	11.28	11.28					
10	16QAM	1	25	11.13	11.13	11.13					
10	16QAM	1	49	11.26	11.11	11.10	12.8	0			
10	16QAM	1	99	11.25	11.25	11.25					
10	16QAM	25	12	11.02	11.01	11.08					
10	16QAM	25	25	11.06	11.16	11.12	12.8	0			
10	16QAM	50	0	11.19	11.19	11.19					
10	16QAM	1	25	11.09	11.41	11.38					
10	256QAM	1	25	11.14	11.16	11.20	12.8	0			
10	256QAM	1	49	11.14	11.16	11.20					
10	256QAM	25	0	11.28	11.33	11.24					
10	256QAM	25	12	11.11	11.12	11.04	12.8	0			
10	256QAM	25	25	11.11	11.12	11.04					
10	256QAM	50	0	11.15	11.19	11.08					
10	256QAM	50	12	11.23	11.23	11.17	12.8	0			
10	256QAM	12	7	11.28	11.27	11.10					
10	256QAM	12	13	11.13	11.13	11.13					
Channel											
Frequency (MHz)											
5	QPSK	1	0	11.33	11.50	11.43	12.8	0			
5	QPSK	1	12	11.24	11.27	11.25					
5	QPSK	1	24	11.25	11.28	11.30					
5	QPSK	12	7	11.37	11.41	11.33	12.8	0			
5	QPSK	12	7	11.47	11.24	11.15					
5	QPSK	12	13	11.24	11.22	11.19					
5	QPSK	25	0	11.32	11.36	11.14	12.8	0			
5	QPSK	25	0	11.23	11.37	11.34					
5	QPSK	25	13	11.21	11.22	11.19					
5	16QAM	1	24	11.27	11.17	11.23	12.8	0			
5	16QAM	12	0	11.28	11.26	11.25					
5	16QAM	12	13	11.22	11.22	11.19					
5	16QAM	12	13	11.02	11.07	11.17	12.8	0			
5	16QAM	25	0	11.28	11.26	11.25					
5	16QAM	25	13	11.31	11.34	11.31					
5	16QAM	1	12	11.15	11.19	11.08	12.8	0			
5	16QAM	1	12	11.11	11.11	11.11					
5	16QAM	12	0	11.23	11.30	11.34					
5	16QAM	12	7	11.07	11.12	11.10	12.8	0			
5	16QAM	12	13	11.13	11.13	11.13					
5	16QAM	25	0	11.23	11.27	11.19					
5	256QAM	1	0	11.28	11.37	11.38	12.8	0			
5	256QAM	1	12	11.13	11.13	11.13					
5	256QAM	1	24	11.19	11.24	11.34					
5	256QAM	12	0	11.21	11.38	11.29	12.8	0			
5	256QAM	12	13	11.24	11.14	11.14					
5	256QAM	12	13	11.07	11.24	11.18					
5	256QAM	25	0	11.19	11.20	11.10	12.8	0			
Channel											
Frequency (MHz)											
3	QPSK	1	0	11.38	11.42	11.48			12.8	0	
3	QPSK	1	14	11.28	11.28	11.31					
3	QPSK	1	14	11.24	11.30	11.31					
3	QPSK	8	0	11.35	11.40	11.38	12.8	0			
3	QPSK	8	7	11.21	11.24	11.23					
3	QPSK	8	7	11.16	11.19	11.12					
3	QPSK	16	0	11.30	11.38	11.32	12.8	0			
3	QPSK	16	0	11.40	11.40	11.43					
3	QPSK	16	8	11.11	11.21	11.22					
3	16QAM	1	14	11.19	11.16	11.20	12.8	0			
3	16QAM	1	14	11.25	11.27	11.27					
3	16QAM	8	4	11.15	11.19	11.09					
3	16QAM	8	7	11.00	11.15	11.11	12.8	0			
3	16QAM	8	7	11.08	11.25	11.19					
3	16QAM	16	0	11.26	11.31	11.11					
3	16QAM	1	8	11.09	11.18	11.18	12.8	0			
3	16QAM	1	8	11.11	11.19	11.19					
3	16QAM	8	0	11.15	11.31	11.27					
3	256QAM	1	14	11.11	11.15	11.13	12.8	0			
3	256QAM	1	14	11.09	11.21	11.11					
3	256QAM	8	4	11.08	11.24	11.13					
3	256QAM	16	0	11.20	11.28	11.13	12.8	0			
3	256QAM	16	0	11.25	11.30	11.25					
3	256QAM	1	14	11.10	11.11	11.24					
3	256QAM	1	14	11.21	11.28	11.28	12.8	0			
3	256QAM	8	4	11.12	11.14	11.02					
3	256QAM	8	7	11.12	11.14	11.04					
3	256QAM	8	7	11.21	11.24	11.19	12.8	0			
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	11.42	11.42	11.42			12.8	0	
1.4	QPSK	1	14	11.26	11.22	11.31					
1.4	QPSK	1	5	11.30	11.34	11.29					
1.4	QPSK	1	5	11.30	11.34	11.29	12.8	0			
1.4	QPSK	1	14	11.26	11.22	11.31					
1.4	QPSK	3	3	11.22	11.27	11.15					
1.4	QPSK	3	3	11.22	11.18	11.25	12.8	0			
1.4	QPSK	3	3	11.22	11.27	11.15					
1.4	16QAM	1	0	11.31	11.44	11.32					
1.4	16QAM	1	3	11.21	11.22	11.19	12.8	0			
1.4	16QAM	3	3	11.27	11.26	11.23					
1.4	16QAM	3	3	11.26	11.30	11.24					
1.4	16QAM	3	3	11.16	11.24	11.18	12.8	0			
1.4	16QAM	6	0	11.28	11.22	11.14					
1.4	16QAM	3	3	11.24	11.35	11.31					
1.4	16QAM	1	6	11.19	11.19	11.19	12.8	0			
1.4	16QAM	3	6	11.24	11.27	11.34					
1.4	16QAM	3	6	11.24	11.22	11.24					
1.4	16QAM	3	6	11.23	11.30	11.12	12.8	0			
1.4	16QAM	6	0	11.28	11.25	11.14					
1.4	16QAM	1	3	11.10	11.10	11.20					
1.4	256QAM	1	3	11.14	11.27	11.28	12.8	0			
1.4	256QAM	1	14	11.27	11						



Band 38 Ant1													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Frq.	Power Mid Ch / Frq.	Power High Ch / Frq.	Turn-up time (dBm)	MPE (dB)					
Channel													
Frequency (MHz)				37860	38800	38850							
20	QPSK	1	0	13.45	13.57	13.36	14.7	0					
20	QPSK	1	49	13.55	13.42	13.28							
20	QPSK	1	99	13.42	13.41	13.37	14.7	0					
20	QPSK	50	0	13.47	13.45	13.43							
20	QPSK	50	24	13.31	13.38	13.06	14.7	0					
20	QPSK	50	49	13.25	13.39	13.02							
20	QPSK	100	0	13.42	13.47	13.44	14.7	0					
20	16QAM	1	0	13.49	13.43	13.31							
20	16QAM	1	49	13.59	13.46	13.30	14.7	0					
20	16QAM	1	99	13.29	13.28	13.33							
20	16QAM	50	0	13.35	13.45	13.31	14.7	0					
20	16QAM	50	24	13.25	13.39	13.02							
20	16QAM	50	50	13.11	13.35	13.07	14.7	0					
20	16QAM	100	0	13.23	13.42	13.31							
20	16QAM	100	1	0	13.37	13.32	14.7	0					
20	16QAM	100	1	49	13.38	13.37							
20	16QAM	1	99	13.37	13.37	13.32	14.7	0					
20	16QAM	50	0	13.28	13.50	13.41							
20	16QAM	50	24	13.22	13.37	13.02	14.7	0					
20	16QAM	50	49	13.07	13.26	13.08							
20	16QAM	100	0	13.29	13.42	13.40	14.7	0					
20	16QAM	100	1	0	13.31	13.41							
20	16QAM	1	99	13.42	13.41	13.38	14.7	0					
20	256QAM	1	0	13.47	13.46	13.34							
20	256QAM	1	49	13.25	13.25	13.28	14.7	0					
20	256QAM	50	0	13.27	13.25	13.28							
20	256QAM	50	24	13.17	13.25	13.05	14.7	0					
20	256QAM	50	49	13.12	13.45	13.15							
20	256QAM	100	0	13.22	13.40	13.35	14.7	0					
Channel													
Frequency (MHz) <td>37860</td> <td>38800</td> <td>38850</td> <td></td> <td></td> <td colspan="3"></td>				37860	38800	38850							
15	QPSK	1	0	13.33	13.47	13.31			14.7	0			
15	QPSK	1	37	13.32	13.35	13.21							
15	QPSK	1	74	13.24	13.32	13.23	14.7	0					
15	QPSK	36	0	13.27	13.44	13.35							
15	QPSK	36	20	13.26	13.36	13.02	14.7	0					
15	QPSK	36	36	13.24	13.40	13.31							
15	QPSK	75	0	13.39	13.34	13.31	14.7	0					
15	QPSK	75	1	0	13.38	13.34							
15	16QAM	1	0	13.38	13.34	13.36	14.7	0					
15	16QAM	1	37	13.37	13.36	13.33							
15	16QAM	1	74	13.25	13.34	13.29	14.7	0					
15	16QAM	36	0	13.22	13.35	13.21							
15	16QAM	36	20	13.25	13.35	13.03	14.7	0					
15	16QAM	36	36	12.99	13.27	13.04							
15	16QAM	75	0	13.30	13.29	13.15	14.7	0					
15	16QAM	75	1	0	13.32	13.41							
15	16QAM	1	74	13.24	13.31	13.33	14.7	0					
15	16QAM	36	0	13.25	13.40	13.31							
15	16QAM	36	20	13.25	13.35	13.02	14.7	0					
15	16QAM	36	36	12.99	13.27	13.04							
15	16QAM	75	0	13.30	13.29	13.15	14.7	0					
15	16QAM	75	1	0	13.32	13.41							
15	256QAM	1	0	13.37	13.41	13.31	14.7	0					
15	256QAM	1	37	13.41	13.21	13.15							
15	256QAM	1	74	13.20	13.32	13.17	14.7	0					
15	256QAM	36	0	13.23	13.35	13.28							
15	256QAM	36	20	13.12	13.29	13.02	14.7	0					
15	256QAM	36	36	12.99	13.41	13.05							
15	256QAM	75	0	13.30	13.29	13.17	14.7	0					
15	256QAM	75	1	0	13.32	13.40							
Channel													
Frequency (MHz) <td>37860</td> <td>38800</td> <td>38850</td> <td></td> <td></td> <td colspan="3"></td>				37860	38800	38850							
5	QPSK	1	0	13.19	13.47	13.31	14.7	0					
5	QPSK	1	25	13.49	13.35	13.18							
5	QPSK	1	1	13.49	13.35	13.35	14.7	0					
5	QPSK	25	0	13.44	13.40	13.35							
5	QPSK	25	12	13.19	13.49	13.34	14.7	0					
5	QPSK	25	25	13.19	13.39	13.17							
5	QPSK	50	0	13.33	13.33	13.33	14.7	0					
5	16QAM	1	0	13.38	13.32	13.34							
5	16QAM	1	25	13.19	13.21	13.14	14.7	0					
5	16QAM	1	49	13.17	13.21	13.24							
5	16QAM	25	0	13.27	13.41	13.28	14.7	0					
5	16QAM	25	12	13.10	13.33	13.09							
5	16QAM	25	25	13.07	13.25	13.00	14.7	0					
5	16QAM	50	0	13.32	13.33	13.33							
5	16QAM	1	0	13.29	13.39	13.28	14.7	0					
5	16QAM	1	25	13.32	13.27	13.23							
5	16QAM	25	0	13.15	13.35	13.30	14.7	0					
5	16QAM	25	12	13.11	13.29	12.98							
5	16QAM	25	25	12.99	13.22	12.97	14.7	0					
5	16QAM	50	0	13.23	13.39	13.32							
5	16QAM	50	1	13.25	13.31	13.24	14.7	0					
5	256QAM	1	25	13.32	13.22	13.13							
5	256QAM	1	49	13.21	13.17	13.25	14.7	0					
5	256QAM	25	0	13.13	13.38	13.21							
5	256QAM	25	12	13.10	13.26	13.01	14.7	0					
5	256QAM	25	25	12.98	13.38	13.10							
5	256QAM	50	0	13.27	13.35	13.27	14.7	0					
Channel													
Frequency (MHz) <td>37775</td> <td>38800</td> <td>38825</td> <td></td> <td></td> <td colspan="3"></td>				37775	38800	38825							
5	QPSK	1	0	13.17	13.40	13.31			14.7	0			
5	QPSK	1	12	13.50	13.31	13.14							
5	QPSK	1	1	13.50	13.31	13.27	14.7	0					
5	QPSK	12	0	13.35	13.45	13.31							
5	QPSK	12	7	13.19	13.26	13.01	14.7	0					
5	QPSK	12	14	13.19	13.26	13.13							
5	QPSK	25	0	13.32	13.41	13.36	14.7	0					
5	16QAM	1	0	13.46	13.36	13.33							
5	16QAM	1	12	13.14	13.24	13.14	14.7	0					
5	16QAM	1	24	13.26	13.26	13.30							
5	16QAM	12	0	13.23	13.35	13.25	14.7	0					
5	16QAM	12	7	13.14	13.31	12.90							
5	16QAM	12	13	12.97	13.26	13.04	14.7	0					
5	16QAM	25	0	13.26	13.31	13.28							
5	16QAM	1	0	13.28	13.48	13.23	14.7	0					
5	16QAM	1	12	13.31	13.33	13.31							
5	16QAM	1	24	13.17	13.31	13.30	14.7	0					
5	16QAM	12	0	13.24	13.47	13.32							
5	16QAM	12	7	13.14	13.37	13.32	14.7	0					
5	16QAM	12	13	13.04	13.23	13.04							
5	16QAM	25	0	13.25	13.38	13.27	14.7	0					
5	16QAM	25	12	13.27	13.32	13.32							
5	256QAM	1	12	13.41	13.15	13.14	14.7	0					
5	256QAM	1	24	13.23	13.20	13.21							
5	256QAM	12	0	13.19	13.38	13.28	14.7	0					
5	256QAM	12	7	13.11	13.38	13.01							
5	256QAM	12	13	13.09	13.42	13.21	14.7	0					
5	256QAM	25	0	13.17	13.15	13.15							



Band 48_FCC Ant1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPP (dB)	
Channel				56540	56630	56760	56850	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56610	56700	56830	56920			
20	QPSK	1	0	14.90	15.25	14.98	15.01	15.6	0	
20	QPSK	1	49	14.88	15.12	14.95	14.93			
20	QPSK	1	99	14.90	15.04	15.14	15.09			
20	QPSK	50	0	14.92	15.14	15.01	15.04			
20	QPSK	50	24	14.84	15.03	15.01	14.92	15.6	0	
20	QPSK	50	50	14.87	15.04	14.95	14.78			
20	QPSK	100	0	14.80	15.08	15.02	14.89			
20	16QAM	1	0	14.98	15.20	14.93	14.97	15.6	0	
20	16QAM	1	49	14.75	15.00	14.89	14.87			
20	16QAM	1	99	14.90	14.97	15.09	14.93			
20	16QAM	50	0	14.85	15.09	14.91	14.91			
20	16QAM	50	24	14.72	14.91	14.88	14.82	15.6	0	
20	16QAM	50	50	14.77	14.96	14.84	14.74			
20	64QAM	100	0	14.72	14.95	14.85	14.78			
20	64QAM	1	0	14.04	15.16	14.87	14.85	15.6	0	
20	64QAM	1	49	14.75	15.00	14.82	14.85			
20	64QAM	1	99	14.95	14.92	15.01	14.87			
20	64QAM	50	0	14.84	15.05	14.94	14.98			
20	64QAM	50	24	14.74	14.91	14.88	14.82	15.6	0	
20	64QAM	50	50	14.83	15.00	14.92	14.87			
20	64QAM	100	0	14.79	15.03	14.93	14.83			
20	256QAM	1	0	14.97	15.23	14.86	14.95	15.6	0	
20	256QAM	1	49	14.75	15.08	14.87	14.86			
20	256QAM	1	99	14.85	14.94	15.01	14.95			
20	256QAM	50	0	14.80	14.12	14.95	14.88			
20	256QAM	50	24	14.81	14.95	14.93	14.89	15.6	0	
20	256QAM	50	50	14.76	14.98	14.83	14.73			
20	256QAM	100	0	14.85	14.98	14.85	14.88			
Channel				56315	56420	56760	56865	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56345	56450	56790	56895			
15	QPSK	1	0	14.93	15.14	14.95	14.91	15.6	0	
15	QPSK	1	37	14.78	15.03	14.82	14.86			
15	QPSK	1	74	14.93	14.90	15.10	14.97			
15	QPSK	86	0	14.82	15.06	14.96	15.01			
15	QPSK	86	20	14.76	14.98	14.93	14.82	15.6	0	
15	QPSK	75	0	14.77	14.90	14.98	14.88			
15	QPSK	75	0	14.72	14.98	14.90	14.79			
15	16QAM	1	0	14.88	15.16	14.81	14.83	15.6	0	
15	16QAM	1	37	14.56	14.94	14.76	14.83			
15	16QAM	1	74	14.81	14.87	15.01	14.85			
15	16QAM	58	0	14.87	15.01	14.78	14.84			
15	16QAM	86	20	14.64	14.85	14.82	14.73	15.6	0	
15	16QAM	86	39	14.63	14.84	14.77	14.64			
15	16QAM	75	0	14.58	14.88	14.90	14.73			
15	64QAM	1	0	14.89	15.05	14.82	14.78			
15	64QAM	1	37	14.68	14.87	14.73	14.70	15.6	0	
15	64QAM	1	74	14.75	14.86	14.96	14.74			
15	64QAM	86	0	14.75	14.86	14.91	14.85			
15	64QAM	86	20	14.63	14.87	14.86	14.73			
15	256QAM	86	0	14.70	14.92	14.84	14.78	15.6	0	
15	256QAM	75	0	14.72	14.90	14.90	14.71			
15	256QAM	1	0	14.91	15.14	14.77	14.85			
15	256QAM	1	37	14.83	15.03	14.83	14.73			
15	256QAM	1	74	14.73	14.83	14.98	14.92	15.6	0	
15	256QAM	86	0	14.69	15.00	14.89	14.83			
15	256QAM	86	20	14.67	14.82	14.80	14.82			
15	256QAM	86	39	14.65	14.86	14.71	14.69			
Channel				56290	56418	56760	56890	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56320	56448	56790	56918			
10	QPSK	1	0	14.88	15.12	14.84	14.82	15.6	0	
10	QPSK	1	25	14.75	15.09	14.91	14.80			
10	QPSK	1	49	14.88	14.99	15.05	14.86			
10	QPSK	25	0	14.86	15.05	14.90	14.84			
10	QPSK	25	12	14.71	14.93	14.87	14.87	15.6	0	
10	QPSK	25	25	14.78	15.02	14.89	14.87			
10	QPSK	50	0	14.71	15.03	14.91	14.86			
10	16QAM	1	0	14.90	15.08	14.86	14.86	15.6	0	
10	16QAM	1	25	14.71	14.96	14.83	14.83			
10	16QAM	1	49	14.85	14.92	15.02	14.82			
10	16QAM	25	0	14.82	15.03	14.77	14.88			
10	16QAM	25	12	14.63	14.85	14.67	14.72	15.6	0	
10	16QAM	25	25	14.65	14.93	14.72	14.67			
10	16QAM	50	0	14.58	14.95	14.85	14.68			
10	64QAM	1	0	14.80	15.07	14.81	14.86	15.6	0	
10	64QAM	1	25	14.71	14.96	14.71	14.76			
10	64QAM	1	49	14.80	14.79	14.90	14.85			
10	64QAM	25	0	14.75	14.98	14.90	14.80			
10	64QAM	25	12	14.60	14.85	14.83	14.73	15.6	0	
10	64QAM	25	25	14.72	14.92	14.86	14.96			
10	64QAM	50	0	14.73	14.97	14.88	14.75			
10	256QAM	1	0	14.89	15.13	14.82	14.82			
10	256QAM	1	25	14.85	15.04	14.73	14.82	15.6	0	
10	256QAM	1	49	14.77	14.84	14.93	14.82			
10	256QAM	25	0	14.77	15.03	14.92	14.82			
10	256QAM	25	12	14.74	14.82	14.81	14.81			
10	256QAM	25	25	14.65	14.83	14.81	14.84	15.6	0	
10	256QAM	50	0	14.63	14.90	14.83	14.75			
Channel				56265	56400	56760	56875	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56295	56430	56770	56885			
5	QPSK	1	0	14.92	15.15	14.86	14.86	15.6	0	
5	QPSK	1	12	14.80	15.10	14.87	14.83			
5	QPSK	1	24	14.91	14.97	15.07	14.99			
5	QPSK	12	0	14.89	15.04	14.94	15.08			
5	QPSK	12	7	14.79	14.98	14.88	14.88	15.6	0	
5	QPSK	12	13	14.82	15.00	14.92	14.71			
5	QPSK	25	0	14.75	14.95	14.97	14.83			
5	16QAM	1	0	14.93	15.10	14.84	14.84			
5	16QAM	1	12	14.87	14.88	14.78	14.77	15.6	0	
5	16QAM	1	24	14.80	14.87	14.96	14.88			
5	16QAM	12	0	14.85	15.06	14.79	14.87			
5	16QAM	12	7	14.82	14.80	14.84	14.73			
5	16QAM	12	13	14.65	14.90	14.77	14.67	15.6	0	
5	16QAM	25	0	14.60	14.86	14.80	14.68			
5	64QAM	1	0	14.83	15.11	14.81	14.76			
5	64QAM	1	12	14.70	14.96	14.79	14.80			
5	64QAM	1	24	14.77	14.90	14.92	14.80	15.6	0	
5	64QAM	12	0	14.85	14.99	14.85	14.80			
5	64QAM	12	7	14.68	14.87	14.80	14.70			
5	64QAM	12	13	14.79	14.94	14.84	14.60			
5	256QAM	1	0	14.80	15.01	14.81	14.76	15.6	0	
5	256QAM	1	12	14.62	15.03	14.79	14.75			
5	256QAM	1	24	14.81	14.87	14.88	14.84			
5	256QAM	12	0	14.70	15.00	14.84	14.87			
5	256QAM	12	7	14.73	14.93	14.88	14.79	15.6	0	
5	256QAM	12	13	14.64	14.93	14.76	14.66			
5	256QAM	25	0	14.85	14.84	14.78	14.75			
5	256QAM	25	12	14.74	14.93	14.88	14.79			



Band 2 Ant2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq 18750	Power Mid Ch / Freq 18900	Power High Ch / Freq 19050	Turnup (dBm)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	18.84	18.82	18.84	20.4	0						
20	QPSK	1	49	18.85	18.83	18.87								
20	QPSK	1	99	18.84	18.86	18.87								
20	QPSK	50	0	18.75	18.80	18.86								
20	QPSK	50	24	18.53	18.87	19.23	20.4	0						
20	QPSK	50	50	18.56	18.82	18.82								
20	QPSK	100	0	18.58	18.82	18.84								
20	16QAM	1	0	18.70	18.81	18.81								
20	16QAM	1	49	18.45	18.74	18.96	20.4	0						
20	16QAM	1	99	18.51	18.76	18.83								
20	16QAM	50	0	18.82	18.84	18.88								
20	16QAM	50	24	18.88	18.81	18.95								
20	16QAM	50	50	18.98	18.77	18.81	20.4	0						
20	16QAM	100	0	18.98	18.92	18.96								
20	64QAM	1	0	18.71	18.70	18.68								
20	64QAM	1	49	18.63	18.75	18.96								
20	64QAM	50	0	18.82	18.83	18.89	20.4	0						
20	64QAM	50	0	18.75	18.69	18.67								
20	64QAM	50	24	18.45	18.88	18.95								
20	64QAM	50	50	18.58	18.95	18.98								
20	256QAM	1	49	18.08	18.02	17.83	19.5	0.9						
20	256QAM	1	99	18.12	18.06	18.15								
20	256QAM	50	0	18.12	18.20	18.11								
20	256QAM	50	24	17.95	17.91	17.92								
20	256QAM	50	50	17.81	18.01	18.08	19.5	0.9						
20	256QAM	100	0	17.95	18.14	18.15								
Channel														
Frequency (MHz)														
18	QPSK	1	0	18.82	18.81	18.70	20.4	0						
18	QPSK	1	37	18.83	18.78	18.74								
18	QPSK	1	74	18.41	18.83	18.42								
18	QPSK	36	0	18.70	18.86	18.53								
18	QPSK	36	25	18.42	18.74	18.86	20.4	0						
18	QPSK	36	39	18.49	18.73	18.58								
18	QPSK	75	0	18.53	18.72	18.58								
18	16QAM	1	0	18.65	18.71	18.74								
18	16QAM	1	37	18.43	18.63	18.64	20.4	0						
18	16QAM	1	74	18.49	18.64	18.64								
18	16QAM	36	0	18.79	18.54	18.44								
18	16QAM	36	20	18.61	18.74	18.45								
18	16QAM	36	20	18.44	18.74	18.64	20.4	0						
18	16QAM	75	0	18.54	18.69	18.61								
18	64QAM	1	0	18.68	18.65	18.62								
18	64QAM	1	37	18.54	18.69	18.64								
18	64QAM	1	74	18.48	18.72	18.41	20.4	0						
18	64QAM	36	0	18.63	18.63	18.58								
18	64QAM	36	20	18.43	18.67	18.61								
18	64QAM	36	39	18.52	18.54	18.52								
18	64QAM	75	0	18.48	18.58	18.53	19.5	0.9						
18	256QAM	1	37	17.97	17.97	17.97								
18	256QAM	1	74	18.05	17.74	17.85								
18	256QAM	36	20	17.84	17.82	17.82								
18	256QAM	36	20	17.82	17.87	17.84	19.5	0.9						
18	256QAM	36	39	17.76	17.82	18.01								
18	256QAM	75	0	17.48	17.68	17.68								
Channel														
Frequency (MHz)														
18	QPSK	1	0	18.71	18.73	18.80	20.4	0						
18	QPSK	1	25	18.48	18.72	18.80								
18	QPSK	1	49	18.51	18.73	18.50								
18	QPSK	36	0	18.41	18.68	18.68								
18	QPSK	36	25	18.41	18.78	18.68	20.4	0						
18	QPSK	25	12	18.41	18.78	18.68								
18	QPSK	25	25	18.46	18.72	18.80								
18	QPSK	50	0	18.50	18.69	18.69								
18	16QAM	1	0	18.63	18.67	18.72	20.4	0						
18	16QAM	1	26	18.42	18.68	18.60								
18	16QAM	1	49	18.56	18.72	18.41								
18	16QAM	25	0	18.73	18.62	18.64								
18	16QAM	25	12	18.41	18.69	18.45	20.4	0						
18	16QAM	25	25	18.48	18.59	18.45								
18	64QAM	1	0	18.45	18.48	18.45								
18	64QAM	1	26	18.04	17.80	17.79								
18	64QAM	1	49	17.92	17.75	17.88	19.5	0.9						
18	64QAM	25	0	17.78	17.63	17.67								
18	64QAM	25	12	17.81	17.76	17.81								
18	64QAM	25	25	17.67	17.67	18.03								
18	256QAM	50	0	17.81	18.02	17.83	19.5	0.9						
Channel														
Frequency (MHz)														
5	QPSK	1	0	18.71	18.81	18.71	20.4	0						
5	QPSK	1	12	18.53	18.74	18.81								
5	QPSK	1	24	18.62	18.73	18.43								
5	QPSK	12	0	18.73	18.87	18.83								
5	QPSK	12	7	18.42	18.76	18.82	20.4	0						
5	QPSK	12	13	18.45	18.74	18.60								
5	QPSK	26	0	18.15	18.78	18.53								
5	16QAM	1	0	18.58	18.49	18.75								
5	16QAM	1	12	18.47	18.68	18.63	20.4	0						
5	16QAM	1	24	18.48	18.68	18.57								
5	16QAM	12	0	18.77	18.61	18.95								
5	16QAM	12	7	18.56	18.69	18.42								
5	16QAM	12	13	18.52	18.70	18.95	20.4	0						
5	16QAM	25	0	18.55	18.66	18.47								
5	64QAM	1	0	18.67	18.63	18.59								
5	64QAM	1	12	18.54	18.71	18.45								
5	64QAM	1	24	18.59	18.76	18.45	20.4	0						
5	64QAM	12	0	18.66	18.57	18.57								
5	64QAM	12	7	18.46	18.58	18.49								
5	64QAM	12	13	18.48	18.61	18.51								
5	64QAM	26	0	18.46	18.55	18.46	20.4	0						
5	256QAM	1	0	17.93	18.11	18.02								
5	256QAM	1	12	17.90	17.85	17.74								
5	256QAM	1	24	17.99	17.84	17.94								
5	256QAM	12	0	17.92	17.84	17.88	19.5	0.9						
5	256QAM	12	7	17.76	17.76	17.85								
5	256QAM	12	13	17.85	17.79	17.88								
5	256QAM	25	0	17.81	18.02	18.02								
Channel														

Band 25 Ant2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turnup time (s)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	18.92	19.00	18.94	20.4	0						
20	QPSK	1	49	18.79	18.83	18.79								
20	QPSK	1	99	18.79	18.83	18.79								
20	QPSK	50	0	18.93	18.93	18.98								
20	QPSK	50	24	18.77	18.83	18.75	20.4	0						
20	QPSK	50	50	18.82	18.80	18.76								
20	QPSK	100	0	18.82	18.84	18.75								
20	16QAM	1	0	18.86	18.87	18.85								
20	16QAM	1	49	18.68	18.82	18.73	20.4	0						
20	16QAM	1	99	18.68	18.82	18.73								
20	16QAM	50	0	18.90	18.81	18.74								
20	16QAM	50	24	18.74	18.88	18.81								
20	16QAM	50	50	18.72	18.86	18.84	20.4	0						
20	16QAM	100	0	18.70	18.84	18.65								
20	64QAM	1	0	18.78	18.86	18.87								
20	64QAM	1	49	18.76	18.96	18.71								
20	64QAM	1	99	18.68	18.87	18.72	20.4	0						
20	64QAM	50	0	18.83	18.85	18.85								
20	64QAM	50	24	18.67	18.92	18.87								
20	64QAM	100	0	18.70	18.81	18.73								
20	256QAM	1	0	18.82	18.82	18.67	19.5	0.9						
20	256QAM	1	49	18.05	18.20	18.00								
20	256QAM	1	99	17.97	18.08	17.97								
20	256QAM	50	0	18.70	18.80	18.65								
20	256QAM	50	24	17.99	18.04	18.00	19.5	0.9						
20	256QAM	50	50	17.88	18.08	17.89								
20	256QAM	100	0	17.87	18.07	17.89								
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.87	18.86	18.92	20.4	0						
15	QPSK	1	49	18.75	18.89	18.89								
15	QPSK	1	74	18.67	18.83	18.76								
15	QPSK	36	0	18.90	18.81	18.78								
15	QPSK	36	24	18.74	18.86	18.87	20.4	0						
15	QPSK	36	39	18.73	18.83	18.69								
15	QPSK	75	0	18.77	18.87	18.71								
15	16QAM	1	0	18.78	18.84	18.78								
15	16QAM	1	37	18.60	18.88	18.60	20.4	0						
15	16QAM	1	74	18.52	18.92	18.67								
15	16QAM	36	0	18.85	18.72	18.87								
15	16QAM	36	20	18.65	18.85	18.49								
15	16QAM	36	20	18.65	18.85	18.49	20.4	0						
15	16QAM	75	0	18.69	18.85	18.55								
15	64QAM	1	0	18.78	18.77	18.82								
15	64QAM	1	49	18.73	18.79	18.83								
15	64QAM	1	74	18.63	18.83	18.60	20.4	0						
15	64QAM	36	0	18.80	18.80	18.76								
15	64QAM	36	20	18.54	18.84	18.69								
15	64QAM	36	39	18.57	18.73	18.53								
15	64QAM	75	0	18.69	18.71	18.82	19.5	0.9						
15	256QAM	1	0	18.69	18.71	18.82								
15	256QAM	1	37	17.79	18.13	17.80								
15	256QAM	1	74	17.75	17.84	17.82								
15	256QAM	36	0	18.69	18.68	18.66	19.5	0.9						
15	256QAM	36	20	17.80	17.84	17.77								
15	256QAM	36	39	17.74	18.05	17.73								
15	256QAM	75	0	17.82	17.86	17.83								
Channel														
Frequency (MHz)														
10	QPSK	1	0	18.78	18.84	18.84	20.4	0						
10	QPSK	1	25	18.67	18.82	18.69								
10	QPSK	1	49	18.71	18.88	18.77								
10	QPSK	25	0	18.83	18.82	18.80								
10	QPSK	25	12	18.67	18.69	18.64	20.4	0						
10	QPSK	25	25	18.76	18.79	18.71								
10	QPSK	80	0	18.69	18.88	18.68								
10	16QAM	1	0	18.83	18.78	18.73								
10	16QAM	1	25	18.58	18.83	18.59	20.4	0						
10	16QAM	1	49	18.61	18.92	18.70								
10	16QAM	25	0	18.80	18.76	18.69								
10	16QAM	25	12	18.69	18.82	18.52								
10	16QAM	25	12	18.68	18.78	18.52	20.4	0						
10	16QAM	50	0	18.72	18.81	18.59								
10	64QAM	1	0	18.68	18.80	18.83								
10	64QAM	1	25	18.63	18.82	18.61								
10	64QAM	1	49	18.63	18.85	18.66	20.4	0						
10	64QAM	25	0	18.73	18.76	18.72								
10	64QAM	25	12	18.68	18.87	18.62								
10	64QAM	25	25	18.63	18.74	18.61								
10	64QAM	50	0	18.63	18.74	18.61	20.4	0						
10	256QAM	1	0	18.11	18.85	18.65								
10	256QAM	1	25	17.96	18.03	17.75								
10	256QAM	1	49	17.85	17.85	17.73								
10	256QAM	25	0	17.82	17.87	17.81	19.5	0.9						
10	256QAM	25	12	17.77	17.77	17.84								
10	256QAM	25	25	17.82	17.86	17.81								
10	256QAM	50	0	17.86	17.82	18.02								
Channel														
Frequency (MHz)														
5	QPSK	1	0	18.59	18.87	18.61	20.4	0						
5	QPSK	1	12	18.75	18.89	18.69								
5	QPSK	1	24	18.67	18.83	18.72								
5	QPSK	12	0	18.67	18.84	18.75								
5	QPSK	12	7	18.65	18.85	18.72	20.4	0						
5	QPSK	12	13	18.68	18.80	18.71								
5	QPSK	24	0	18.78	18.84	18.70								
5	16QAM	1	0	18.81	18.78	18.76								
5	16QAM	1	12	18.58	18.80	18.71	20.4	0						
5	16QAM	1	24	18.67	18.73	18.70								
5	16QAM	12	0	18.81	18.68	18.66								
5	16QAM	12	7	18.69	18.74	18.52								
5	16QAM	12	13	18.62	18.74	18.60	20.4	0						
5	16QAM	25	0	18.64	18.82	18.83								
5	64QAM	1	0	18.71	18.86	18.77								
5	64QAM	1	12	18.72	18.86	18.68								
5	64QAM	1	24	18.53	18.78	18.64	20.4	0						
5	64QAM	12	0	18.72	18.79	18.79								
5	64QAM	12	13	18.62	18.84	18.57								
5	64QAM	12	13	18.68	18.68	18.64								
5	64QAM	25	0	18.67	18.87	18.67	20.4	0						
5	256QAM	1	0	18.13	18.11	17.91								
5	256QAM	1	12	17.93	18.01	17.91								
5	256QAM	1	24	17.71	17.82	17.76								
5	256QAM	12	0	17.94	17.92	17.88	19.5	0.9						
5	256QAM	12	7	17.87	17.99	17.74								
5	256QAM	12	13	17.87	17.86	17.81								



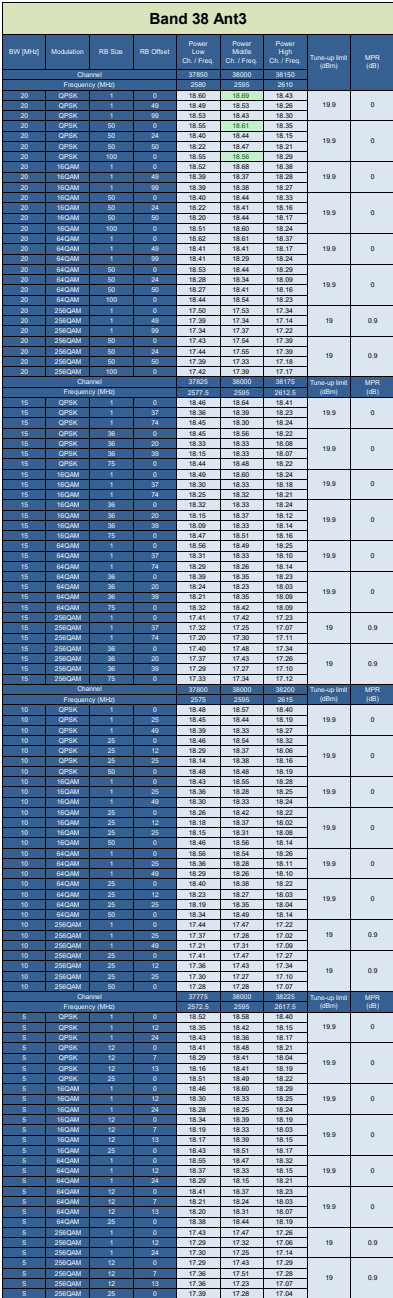
Band 38 Ant2																
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPE (dB)								
Channel																
Frequency (MHz)				39760	39800	39160										
20	QPSK	1	0	18.85	18.90	18.97	20.1	0								
20	QPSK	1	49	18.89	18.94	18.89										
20	QPSK	1	99	18.93	18.96	18.76										
20	QPSK	50	0	18.91	18.95	18.90										
20	QPSK	50	24	18.98	18.92	18.74	20.1	0								
20	QPSK	50	49	18.82	18.90	18.86										
20	QPSK	100	0	18.72	18.90	18.87										
20	16QAM	1	0	18.80	18.88	18.88										
20	16QAM	1	49	18.85	18.92	18.87	20.1	0								
20	16QAM	1	99	18.93	18.97	18.74										
20	16QAM	50	0	18.82	18.89	18.82										
20	16QAM	50	24	18.45	18.92	18.87										
20	16QAM	50	49	18.84	18.81	18.86	20.1	0								
20	16QAM	100	0	18.77	18.90	18.90										
20	16QAM	100	1	18.84	18.85	18.84										
20	8QAM	1	0	18.75	18.85	18.75										
20	8QAM	1	49	18.70	18.80	18.78	20.1	0								
20	8QAM	1	99	18.87	18.76	18.75										
20	8QAM	50	0	18.36	18.39	18.25										
20	8QAM	50	24	18.20	18.32	18.23										
20	8QAM	50	50	18.24	18.31	18.23	20	0.1								
20	8QAM	100	0	18.29	18.38	18.32										
20	8QAM	100	1	18.23	18.33	18.21										
20	25QAM	1	0	18.23	18.33	18.21										
20	25QAM	1	49	18.20	18.33	18.17	18	2.1								
20	25QAM	1	99	18.27	18.31	18.29										
20	25QAM	50	0	18.24	18.30	18.24										
20	25QAM	50	24	18.23	18.34	18.26										
20	25QAM	50	49	18.18	18.31	18.25	18	2.1								
20	25QAM	100	0	18.20	18.32	18.23										
20	25QAM	100	1	18.27	18.30	18.23										
Channel																
Frequency (MHz)				39765	39800	39175						Time-up limit (dBm)	MPE (dB)			
15	QPSK	1	0	18.83	18.90	18.92	20.1	0								
15	QPSK	1	37	18.70	18.88	18.85										
15	QPSK	1	74	18.64	18.89	18.76										
15	QPSK	36	0	18.87	18.90	18.76										
15	QPSK	36	20	18.57	18.90	18.76	20.1	0								
15	QPSK	36	36	18.59	18.89	18.82										
15	QPSK	75	0	18.75	18.94	18.94										
15	QPSK	75	0	18.75	18.94	18.94										
15	16QAM	1	0	18.84	18.89	18.93	20.1	0								
15	16QAM	1	74	18.81	18.93	18.78										
15	16QAM	1	74	18.59	18.73	18.73										
15	16QAM	36	0	18.82	18.87	18.90										
15	16QAM	36	20	18.45	18.90	18.82	20.1	0								
15	16QAM	36	39	18.57	18.77	18.63										
15	16QAM	75	0	18.72	18.80	18.81										
15	16QAM	75	0	18.75	18.90	18.82										
15	8QAM	1	0	18.72	18.80	18.81	20.1	0								
15	8QAM	1	37	18.67	18.92	18.84										
15	8QAM	1	74	18.67	18.92	18.84										
15	8QAM	36	0	18.53	18.86	18.84										
15	8QAM	36	20	18.51	18.83	18.75	20.1	0.1								
15	8QAM	36	39	18.50	18.89	18.82										
15	8QAM	75	0	18.67	18.92	18.84										
15	8QAM	75	0	18.67	18.92	18.84										
15	25QAM	1	0	18.50	18.59	18.66	19.5	0.6								
15	25QAM	1	37	18.51	18.63	18.75										
15	25QAM	1	74	17.83	17.96	17.92										
15	25QAM	36	0	17.95	18.03	18.04										
15	25QAM	36	20	17.88	17.89	17.96	19.5	0.6								
15	25QAM	36	39	17.91	17.84	17.92										
15	25QAM	75	0	17.73	17.82	17.85										
15	25QAM	75	0	17.73	17.82	17.85										
Channel																
Frequency (MHz)				39765	39800	39200	Time-up limit (dBm)	MPE (dB)								
10	QPSK	1	0	18.84	18.90	18.92	20	0								
10	QPSK	1	25	18.76	18.84	18.96										
10	QPSK	1	49	18.63	18.69	18.88										
10	QPSK	1	74	18.70	18.89	18.91										
10	QPSK	25	12	18.63	18.67	18.96	20.1	0								
10	QPSK	25	25	18.67	18.69	18.86										
10	QPSK	50	0	18.14	18.81	18.81										
10	QPSK	50	0	18.78	18.74	18.80										
10	16QAM	1	0	18.78	18.74	18.80	20.1	0								
10	16QAM	1	25	18.58	18.64	18.81										
10	16QAM	1	49	18.50	18.63	18.81										
10	16QAM	25	0	18.67	18.66	18.86										
10	16QAM	25	12	18.62	18.72	18.86	20.1	0								
10	16QAM	25	25	18.52	18.64	18.87										
10	16QAM	50	0	18.54	18.70	18.81										
10	16QAM	50	0	18.62	18.73	18.86										
10	8QAM	1	0	18.67	18.72	18.86	20.1	0								
10	8QAM	1	25	18.56	18.64	18.81										
10	8QAM	1	49	18.50	18.63	18.81										
10	8QAM	25	0	18.76	18.63	18.87										
10	8QAM	25	12	18.53	18.63	18.78	20.1	0.1								
10	8QAM	25	25	18.68	18.62	18.71										
10	8QAM	50	0	18.58	18.61	18.80										
10	8QAM	50	0	18.68	18.61	18.21										
10	25QAM	1	0	17.94	17.91	18.04	19.5	0.6								
10	25QAM	1	49	17.84	17.88	17.86										
10	25QAM	25	0	18.12	18.01	18.04										
10	25QAM	25	12	17.92	17.90	18.07										
10	25QAM	25	25	17.95	17.95	17.76	19.5	0.6								
10	25QAM	25	49	17.87	17.86	18.17										
10	25QAM	50	0	17.87	17.86	17.80										
10	25QAM	50	0	17.87	17.86	17.80										
Channel																
Frequency (MHz)				39775	39800	39220	Time-up limit (dBm)	MPE (dB)								
5	QPSK	1	0	18.77	18.91	18.94	20.1	0								
5	QPSK	1	12	18.72	18.94	18.97										

Band 48_FCC Ant2														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power Mid Ch / Freqs	Power High Ch / Freqs	Power High Ch / Freqs	Turn-up time (dBm)	MFR (dB)					
Channel				56540	56550	56560	56560							
Frequency (MHz)				56540	56550	56560	56560							
20	QPSK	1	0	19.22	19.40	19.24	19.12	21	0					
20	QPSK	1	49	19.20	19.38	19.20	19.07							
20	QPSK	1	99	19.18	19.28	19.16	19.04							
20	QPSK	50	0	19.23	19.26	19.20	19.01							
20	QPSK	50	24	19.19	19.22	19.08	19.04	21	0					
20	QPSK	50	50	19.17	19.21	19.11	19.02							
20	QPSK	100	0	19.19	19.26	19.12	19.01							
20	16QAM	1	0	19.26	19.30	19.33	19.22	21	0					
20	16QAM	1	49	19.25	19.27	19.23	19.20							
20	16QAM	1	99	19.20	19.20	19.26	19.26							
20	16QAM	50	0	19.22	19.31	19.20	19.23							
20	16QAM	50	24	19.18	19.22	19.13	19.11	21	0					
20	16QAM	50	50	19.16	19.21	19.14	19.13							
20	64QAM	100	0	19.16	19.27	19.16	19.12							
20	64QAM	1	0	19.22	19.34	19.27	19.18	20	1					
20	64QAM	50	24	19.26	19.36	19.17	19.12							
20	64QAM	50	50	19.25	19.25	19.16	19.15							
20	64QAM	100	0	19.26	19.24	19.07	19.19							
20	256QAM	1	0	19.27	19.35	19.20	19.12	18	3					
20	256QAM	1	49	19.27	19.33	19.12	19.09							
20	256QAM	1	99	19.30	19.31	19.17	19.09							
20	256QAM	50	0	19.24	19.43	19.18	19.09							
20	256QAM	50	24	19.20	19.35	19.23	19.12	18	3					
20	256QAM	50	50	19.28	19.32	19.14	19.05							
20	256QAM	100	0	19.14	19.22	19.05	19.12							
Channel				56515	56520	56560	56565							
Frequency (MHz)				56515	56520	56560	56565							
15	QPSK	1	0	19.14	19.33	19.19	19.25	21	0					
15	QPSK	1	37	19.18	19.28	19.13	19.08							
15	QPSK	1	74	19.07	19.20	19.11	19.02							
15	QPSK	50	0	19.19	19.25	19.13	19.03							
15	QPSK	50	20	19.08	19.14	19.02	19.01	21	0					
15	QPSK	50	50	19.10	19.13	19.04	19.08							
15	QPSK	75	0	19.12	19.22	19.08	19.08							
15	16QAM	1	0	19.19	19.20	19.31	19.15	21	0					
15	16QAM	1	37	19.26	19.24	19.14	19.13							
15	16QAM	1	74	19.20	19.21	19.25	19.23							
15	16QAM	50	0	19.21	19.27	19.14	19.21							
15	16QAM	50	20	19.14	19.12	19.04	19.05	21	0					
15	16QAM	50	50	19.06	19.17	19.11	19.05							
15	16QAM	75	0	19.06	19.18	19.08	19.01							
15	64QAM	1	0	19.11	19.14	19.12	19.21	21	0					
15	64QAM	1	37	19.06	19.11	19.06	19.07							
15	64QAM	1	74	19.02	19.05	19.07	19.02							
15	64QAM	50	0	19.11	19.31	19.21	19.13	20	1					
15	64QAM	50	20	19.24	19.34	19.14	19.09							
15	64QAM	50	50	19.22	19.21	19.06	19.07							
15	64QAM	75	0	19.20	19.15	19.02	19.06							
15	256QAM	1	0	19.26	19.29	19.17	19.05	18	3					
15	256QAM	1	37	19.21	19.28	19.01	19.05							
15	256QAM	1	74	19.21	19.22	19.13	19.04							
15	256QAM	50	0	19.16	19.41	19.17	19.08							
15	256QAM	50	20	19.18	19.33	19.14	19.03	18	3					
15	256QAM	50	50	19.25	19.30	19.04	19.09							
15	256QAM	50	75	19.25	19.20	19.02	19.02							
Channel				56520	56525	56560	56565							
Frequency (MHz)				56520	56525	56560	56565							
10	QPSK	1	0	19.12	19.32	19.15	19.08	21	0					
10	QPSK	1	25	19.16	19.27	19.15	19.05							
10	QPSK	1	49	19.14	19.18	19.11	19.06							
10	QPSK	25	0	19.19	19.21	19.13	19.08							
10	QPSK	25	12	19.14	19.14	19.02	19.00	21	0					
10	QPSK	25	25	19.09	19.14	19.04	19.05							
10	QPSK	50	0	19.14	19.18	19.07	19.00							
10	16QAM	1	0	19.26	19.28	19.31	19.11	21	0					
10	16QAM	1	25	19.23	19.24	19.21	19.14							
10	16QAM	1	49	19.26	19.24	19.20	19.20							
10	16QAM	25	0	19.13	19.22	19.16	19.17	21	0					
10	16QAM	25	12	19.12	19.19	19.10	19.08							
10	16QAM	25	25	19.04	19.16	19.05	19.05							
10	16QAM	50	0	19.11	19.26	19.18	19.04							
10	64QAM	1	0	19.14	19.20	19.09	19.23	21	0					
10	64QAM	1	25	19.11	19.12	19.08	19.04							
10	64QAM	1	49	19.08	19.03	19.05	19.06							
10	64QAM	25	0	19.12	19.25	19.20	19.13	20	1					
10	64QAM	25	12	19.18	19.27	19.12	19.06							
10	64QAM	25	25	19.18	19.14	19.05	19.05							
10	64QAM	50	0	19.25	19.22	19.00	19.06							
10	256QAM	1	0	19.24	19.31	19.17	19.02	18	3					
10	256QAM	1	25	19.16	19.23	19.04	19.05							
10	256QAM	1	49	19.22	19.30	19.13	19.07							
10	256QAM	25	0	19.20	19.37	19.12	19.02							
10	256QAM	25	12	19.17	19.19	19.14	19.08	18	3					
10	256QAM	25	25	19.17	19.25	19.12	19.05							
10	256QAM	50	0	19.03	19.18	19.05	19.03							
Channel				56525	56530	56560	56565							
Frequency (MHz)				56525	56530	56560	56565							
5	QPSK	1	0	19.12	19.35	19.17	19.03	21	0					
5	QPSK	1	12	19.16	19.30	19.15	19.03							
5	QPSK	1	24	19.11	19.23	19.09	19.03							
5	QPSK	12	0	19.17	19.21	19.19	19.08							
5	QPSK	12	7	19.09	19.14	19.05	19.01	21	0					
5	QPSK	12	19	19.12	19.17	19.01	19.06							
5	QPSK	25	0	19.16	19.16	19.03	19.08							
5	16QAM	1	0	19.27	19.24	19.24	19.17	21	0					
5	16QAM	1	12	19.18	19.19	19.15	19.14							
5	16QAM	1	24	19.21	19.26	19.20	19.23							
5	16QAM	12	0	19.14	19.21	19.11	19.19	21	0					
5	16QAM	12	7	19.16	19.									



Band 2 Ant3														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR3 (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	17.25	17.53	17.20	18.6	0						
20	QPSK	1	49	17.15	17.47	17.24								
20	QPSK	1	99	17.45	17.30	17.27								
20	QPSK	50	0	17.30	17.40	17.31								
20	QPSK	50	24	17.34	17.37	17.30	18.6	0						
20	QPSK	50	50	17.20	17.37	17.14								
20	QPSK	100	0	17.47	17.51	17.33								
20	16QAM	50	0	17.33	17.36	17.36								
20	16QAM	1	49	17.05	17.42	17.03	18.6	0						
20	16QAM	1	99	17.31	17.28	17.20								
20	16QAM	50	0	17.20	17.20	17.14								
20	16QAM	50	24	17.04	17.12	17.07								
20	16QAM	50	50	17.13	17.26	16.91	18.6	0						
20	16QAM	100	0	17.28	17.32	17.14								
20	256QAM	1	49	17.11	17.41	17.25								
20	256QAM	1	99	17.30	17.32	17.16								
20	256QAM	50	0	17.24	17.37	17.17	18.6	0						
20	256QAM	50	24	17.21	17.27	16.94								
20	256QAM	50	50	16.99	17.34	16.99								
20	256QAM	100	0	17.20	17.29	17.00								
Channel														
Frequency (MHz)														
16	QPSK	1	0	16.95	16.90	16.95	18.6	0						
16	QPSK	1	37	17.16	17.45	17.12								
16	QPSK	1	74	17.42	17.26	17.21								
16	QPSK	36	0	17.21	17.41	17.28								
16	QPSK	36	20	17.30	17.31	17.22	18.6	0						
16	QPSK	36	39	17.08	17.33	17.06								
16	QPSK	75	0	17.35	17.47	17.27								
16	16QAM	1	0	17.22	17.20	17.20								
16	16QAM	1	37	16.98	17.34	16.95	18.6	0						
16	16QAM	1	74	17.24	17.30	17.15								
16	16QAM	36	0	17.14	17.23	17.03								
16	16QAM	36	20	16.90	17.08	17.03								
16	16QAM	36	39	17.05	17.36	17.00	18.6	0						
16	16QAM	75	0	17.18	17.18	17.15								
16	84QAM	1	0	17.16	17.34	17.05								
16	84QAM	1	37	17.05	17.29	17.00								
16	84QAM	1	74	17.21	17.27	16.95	18.6	0						
16	84QAM	36	0	17.22	17.30	17.24								
16	84QAM	36	20	17.01	17.31	17.00								
16	84QAM	36	39	16.97	17.34	16.91								
16	84QAM	75	0	17.16	17.27	17.01	18.6	0						
16	256QAM	1	0	17.14	17.34	17.00								
16	256QAM	1	37	17.07	17.33	17.21								
16	256QAM	1	74	17.21	17.21	17.19								
16	256QAM	36	0	17.03	17.35	17.01	18.6	0						
16	256QAM	36	20	17.13	17.23	16.90								
16	256QAM	36	39	16.88	17.30	16.91								
16	256QAM	75	0	17.19	17.28	17.00								
Channel														
Frequency (MHz)														
10	QPSK	1	0	16.95	16.90	16.95	18.6	0						
10	QPSK	1	25	17.12	17.42	17.14								
10	QPSK	1	49	17.34	17.16	17.16								
10	QPSK	12	0	17.27	17.27	17.27								
10	QPSK	25	12	17.32	17.28	17.17	18.6	0						
10	QPSK	25	25	17.13	17.33	17.11								
10	QPSK	50	0	17.36	17.47	17.27								
10	16QAM	1	0	17.31	17.33	17.29								
10	16QAM	1	25	17.00	17.35	16.93	18.6	0						
10	16QAM	1	49	17.26	17.30	17.00								
10	16QAM	25	0	17.07	17.24	17.10								
10	16QAM	25	12	16.90	17.05	17.03								
10	16QAM	36	0	17.10	17.33	17.00	18.6	0						
10	16QAM	36	25	17.03	17.28	17.00								
10	16QAM	50	0	17.23	17.10	17.17								
10	84QAM	1	0	17.13	17.37	17.13								
10	84QAM	1	25	17.00	17.33	17.00	18.6	0						
10	84QAM	1	49	17.25	17.15	16.98								
10	84QAM	25	0	17.28	17.36	17.24								
10	84QAM	25	12	17.03	17.34	17.00								
10	84QAM	25	25	17.00	17.24	16.85	18.6	0						
10	84QAM	50	0	17.17	17.26	17.15								
10	256QAM	1	0	17.19	17.31	17.00								
10	256QAM	1	25	16.99	17.46	17.16								
10	256QAM	1	49	17.20	17.22	17.04	18.6	0						
10	256QAM	25	0	17.13	17.27	17.04								
10	256QAM	25	12	17.15	17.24	16.86								
10	256QAM	25	25	16.94	17.25	16.86								
10	256QAM	50	0	17.22	17.18	17.16	18.6	0						
10	256QAM	50	0	17.22	17.18	17.16								
Channel														
Frequency (MHz)														
5	QPSK	1	0	16.93	16.93	16.93	18.6	0						
5	QPSK	1	12	17.06	17.41	17.13								
5	QPSK	1	24	17.33	17.25	17.13								
5	QPSK	12	0	17.15	17.43	17.02								
5	QPSK	12	7	17.28	17.28	17.19	18.6	0						
5	QPSK	12	13	17.12	17.29	17.01								
5	QPSK	25	0	17.43	17.43	17.31								
5	16QAM	1	0	17.25	17.32	17.27								
5	16QAM	1	12	16.93	17.31	16.96	18.6	0						
5	16QAM	1	24	17.25	17.22	17.13								
5	16QAM	12	0	17.14	17.24	17.12								
5	16QAM	12	7	16.95	16.98	17.03								
5	16QAM	12	13	17.05	17.29	16.88	18.6	0						
5	16QAM	25	0	17.22	17.14	17.12								
5	84QAM	1	0	17.17	17.44	17.12								
5	84QAM	1	12	17.06	17.24	17.00								
5	84QAM	1	24	17.24	17.26	17.00	18.6	0						
5	84QAM	12	0	17.27	17.25	17.21								
5	84QAM	12	7	17.09	17.21	16.99								
5	84QAM	12	13	17.02	17.26	16.85								
5	84QAM	25	0	17.14	17.25	17.02	18.6	0						
5	256QAM	1	0	17.19	17.31									

Band 25 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up time (s)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.52	17.67	17.41			
20	QPSK	1	48	17.40	17.48	17.30	18.6	0	
20	QPSK	1	96	17.63	17.44	17.33			
20	QPSK	50	0	17.53	17.65	17.44			
20	QPSK	50	24	17.41	17.49	17.33			
20	QPSK	50	50	17.29	17.56	17.26	18.6	0	
20	QPSK	100	0	17.52	17.65	17.44			
20	16QAM	1	0	17.41	17.53	17.39			
20	16QAM	1	48	17.26	17.53	17.25	18.6	0	
20	16QAM	1	96	17.47	17.51	17.26			
20	16QAM	50	0	17.40	17.49	17.30			
20	16QAM	50	24	17.28	17.36	17.27	18.6	0	
20	16QAM	50	50	17.28	17.52	17.27			
20	16QAM	100	0	17.44	17.62	17.34			
20	64QAM	1	0	17.59	17.62	17.31			
20	64QAM	1	48	17.37	17.46	17.25	18.6	0	
20	64QAM	1	96	17.47	17.49	17.34			
20	64QAM	50	0	17.46	17.49	17.34			
20	64QAM	50	24	17.33	17.39	17.25	18.6	0	
20	64QAM	50	50	17.44	17.62	17.34			
20	64QAM	100	0	17.40	17.47	17.32			
20	256QAM	1	0	17.38	17.51	17.40			
20	256QAM	1	48	17.35	17.54	17.28	18.6	0	
20	256QAM	1	96	17.40	17.37	17.23			
20	256QAM	50	0	17.40	17.37	17.23			
20	256QAM	50	24	17.33	17.43	17.20	18.6	0	
20	256QAM	50	50	17.16	17.51	17.16			
20	256QAM	100	0	17.40	17.51	17.16			
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.46	17.54	17.38			
15	QPSK	1	24	17.36	17.52	17.22	18.6	0	
15	QPSK	1	74	17.45	17.40	17.20			
15	QPSK	36	0	17.50	17.51	17.41			
15	QPSK	36	24	17.30	17.40	17.21	18.6	0	
15	QPSK	36	36	17.24	17.46	17.17			
15	16QAM	1	0	17.41	17.50	17.40			
15	16QAM	1	74	17.28	17.52	17.34	18.6	0	
15	16QAM	1	37	17.19	17.48	17.13			
15	16QAM	1	74	17.44	17.51	17.34			
15	16QAM	36	0	17.35	17.39	17.18	18.6	0	
15	16QAM	36	20	17.19	17.28	17.16			
15	16QAM	36	20	17.20	17.34	17.16			
15	16QAM	36	20	17.20	17.39	17.13			
15	16QAM	75	0	17.33	17.43	17.28			
15	64QAM	1	0	17.45	17.51	17.27	18.6	0	
15	64QAM	1	74	17.32	17.51	17.27			
15	64QAM	1	74	17.41	17.35	17.24			
15	64QAM	36	0	17.37	17.45	17.25	18.6	0	
15	64QAM	36	20	17.30	17.45	17.25			
15	64QAM	36	36	17.14	17.41	17.08			
15	64QAM	75	0	17.29	17.36	17.29			
15	256QAM	1	0	17.39	17.49	17.16	18.6	0	
15	256QAM	1	37	17.19	17.49	17.16			
15	256QAM	1	74	17.30	17.31	17.16			
15	256QAM	36	0	17.20	17.35	17.16	18.6	0	
15	256QAM	36	20	17.25	17.36	17.18			
15	256QAM	36	36	17.11	17.39	17.12			
15	256QAM	75	0	17.40	17.51	17.12			
Channel									
Frequency (MHz)									
10	QPSK	1	0	17.30	17.46	17.34			
10	QPSK	1	26	17.28	17.57	17.27	18.6	0	
10	QPSK	1	49	17.42	17.41	17.28			
10	QPSK	25	0	17.40	17.54	17.38			
10	QPSK	25	12	17.29	17.46	17.22	18.6	0	
10	QPSK	25	25	17.20	17.45	17.13			
10	QPSK	100	0	17.30	17.46	17.13			
10	16QAM	1	0	17.34	17.51	17.32			
10	16QAM	1	26	17.15	17.43	17.15	18.6	0	
10	16QAM	1	49	17.40	17.29	17.13			
10	16QAM	25	0	17.28	17.39	17.26			
10	16QAM	25	12	17.26	17.34	17.21	18.6	0	
10	16QAM	25	12	17.20	17.39	17.13			
10	16QAM	50	0	17.34	17.34	17.23			
10	64QAM	1	0	17.39	17.58	17.26	18.6	0	
10	64QAM	1	26	17.35	17.42	17.11			
10	64QAM	1	49	17.41	17.37	17.23			
10	64QAM	25	0	17.32	17.44	17.31	18.6	0	
10	64QAM	25	12	17.20	17.32	17.16			
10	64QAM	25	25	17.08	17.44	17.06			
10	64QAM	50	0	17.37	17.42	17.27			
10	256QAM	1	0	17.35	17.55	17.25	18.6	0	
10	256QAM	1	26	17.26	17.43	17.25			
10	256QAM	1	49	17.37	17.25	17.15			
10	256QAM	25	0	17.25	17.44	17.36			
10	256QAM	25	12	17.30	17.36	17.10	18.6	0	
10	256QAM	25	25	17.10	17.39	17.15			
10	256QAM	50	0	17.44	17.47	17.32			
Channel									
Frequency (MHz)									
5	QPSK	1	0	17.45	17.63	17.43			
5	QPSK	1	24	17.27	17.58	17.22	18.6	0	
5	QPSK	1	12	17.29	17.56	17.22			
5	QPSK	12	0	17.44	17.51	17.33			
5	QPSK	12	7	17.33	17.44	17.25	18.6	0	
5	QPSK	12	13	17.26	17.52	17.20			
5	QPSK	26	0	17.42	17.54	17.37			
5	16QAM	1	0	17.34	17.57	17.36	18.6	0	
5	16QAM	1	12	17.19	17.50	17.19			
5	16QAM	1	24	17.35	17.27	17.16			
5	16QAM	12	0	17.31	17.41	17.28			
5	16QAM	12	7	17.20	17.33	17.18	18.6	0	
5	16QAM	12	13	17.24	17.46	17.11			
5	16QAM	26	0	17.36	17.39	17.25			
5	64QAM	1	0	17.43	17.50	17.27	18.6	0	
5	64QAM	1	12	17.27	17.46	17.16			
5	64QAM	1	24	17.44	17.37	17.29			
5	64QAM	12	0	17.30	17.44	17.25	18.6	0	
5	64QAM	12	13	17.20	17.32	17.16			
5	64QAM	12	13	17.12	17.51	17.09			
5	64QAM	26	0	17.38	17.43	17.19			
5	256QAM	1	0	17.33	17.58	17.27	18.6	0	
5	256QAM	1	12	17.25	17.51	17.26			
5	256QAM	1	24	17.26	17.34	17.19			
5	256QAM	12	0	17.42	17.46	17.30	18.6	0	
5	256QAM	12	7	17.28	17.39	17.18			
5	256QAM	12	10	17.09	17.46	17.09			
5	256QAM	26	0	17.44	17.52	17.28			
Channel									
Frequency (MHz)									
3	QPSK	1	0	17.49	17.65	17.31			
3	QPSK	1	8	17.27	17.53	17.16	18.6	0	
3	QPSK	1	14	17.44	17.40	17.31			
3	QPSK	8	0	17.41	17.57	17.35			
3	QPSK	8	4	17.33	17.37	17.25	18.6	0	
3	QPSK	8	7	17.17	17.50	17.18			
3	QPSK	8	7	17.48	17.46	17.40			
3	16QAM	1	0	17.34	17.54	17.28	18.6	0	
3	16QAM	1	8	17.23	17.56	17.16			
3	16QAM	1	14	17.36	17.16	17.23			
3	16QAM	8	0	17.32	17.40	17.16	18.6	0	
3	16QAM	8	4	17.20	17.32	17.25			
3	16QAM	8	7	17.17	17.47	17.13			
3	16QAM	16	0	17.36	17.37	17.28			
3	64QAM	1	0	17.48	17.57	17.19	18.6	0	
3	64QAM	1	8	17.25	17.36	17.22			
3	64QAM	1	14	17.44	17.34	17.26			
3	64QAM	8	0	17.36	17.41	17.29	18.6	0	
3	64QAM	8	7	17.16	17.48	17.12			
3	64QAM	16	0	17.30	17.42	17.06			
3	256QAM	1	0	17.34	17.47	17.18	18.6	0	
3	256QAM	1	8	17.29	17.50	17.18			
3	256QAM	1	14	17.34	17.29	17.18			
3	256QAM	8	0	17.42	17.37	17.37			
3	256QAM	8	4	17.28	17.29	17.13	18.6	0	
3	256QAM	8	7	17.50	17.45	17.06			
3	256QAM	16	0	17.30	17.42	17.31			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	17.39	17.62	17.30			
1.4	QPSK	1	3	17.37	17.47	17.22	18.6	0	
1.4	QPSK	1	5	17.43	17.25	17.31			
1.4	QPSK	3	0	17.48	17.57	17.42			
1.4	QPSK	3	3	17.36	17.46	17.21	18.6	0	
1.4	QPSK	3	3	17.22	17.50	17.23			
1.4	QPSK	5	0	17.47	17.46	17.41			
1.4	QPSK	5	2	17.41	17.28	17.18			
1.4	QPSK	5	2	17.27	17.49	17.20	18.6	0	
1.4	QPSK	1	3	17.16	17.27	17.17			
1.4	QPSK	1	5	17.23	17.39	17.09			
1.4	QPSK	1	5	17.27	17.40	17.13	18.6	0	
1.4	QPSK	3	0	17.47	17.55	17.25			
1.4	QPSK	3	3	17.40	17.49	17.24			
1.4	QPSK	3	5	17.39	17.34	17.23			
1.4	QPSK	3	5	17.37	17.46	17.27	18.6	0	
1.4	QPSK	3	5	17.33	17.31	17.20			
1.4	QPSK	5	0	17.30	17.40	17.19	18.6	0	



Band 41 HPUE Ant3											
BRy (MHz)	Modulation	RS Size	RB Offset	Power Class (dBm)	Power Class (dBm)	Power Class (dBm)	Power Class (dBm)	Power Class (dBm)	Power Class (dBm)	Turn-up limit (dBm)	MPE (dB)
Channel											
Frequency (MHz)											
20	QPSK	0	0	20.31	20.41	20.43	20.41	20.43	20.41	20.43	
20	QPSK	1	49	20.06	20.20	20.17	20.28	20.20	20.18	20.08	21.5
20	QPSK	1	59	20.17	20.13	20.30	20.12	20.12	20.04	20.12	
20	QPSK	50	24	20.38	20.32	20.18	20.18	20.17	20.17	20.17	
20	QPSK	50	24	20.01	20.06	20.09	20.12	20.12	20.08	20.08	
20	QPSK	50	24	20.05	20.02	20.17	20.05	20.05	20.01	20.01	
20	QPSK	100	0	20.15	20.22	20.12	20.23	20.20	20.18	20.18	
20	16QAM	1	0	20.22	20.37	20.31	20.28	20.11	20.11	20.11	
20	16QAM	1	49	20.02	20.17	20.18	20.18	20.17	20.17	20.17	21.5
20	16QAM	1	59	20.15	20.03	20.16	20.06	20.06	20.06	20.06	
20	16QAM	50	0	20.28	20.29	20.35	20.17	20.03	20.03	20.03	
20	16QAM	50	24	20.34	20.32	20.18	20.18	20.18	20.18	20.18	
20	16QAM	50	24	20.05	20.15	20.16	20.19	20.05	20.05	20.05	
20	16QAM	50	0	20.04	20.14	20.25	20.16	20.04	20.04	20.04	
20	16QAM	50	24	20.04	20.18	20.06	20.16	20.04	20.04	20.04	
20	64QAM	1	49	19.69	20.13	20.08	20.17	20.08	20.08	20.08	
20	64QAM	1	59	19.74	20.16	20.08	20.17	20.08	20.08	20.08	
20	64QAM	50	0	20.30	20.23	20.25	20.27	20.05	20.05	20.05	
20	64QAM	50	24	19.88	19.87	20.00	19.99	20.01	20.01	20.01	21.5
20	64QAM	50	24	20.00	20.18	20.06	20.16	20.00	20.00	20.00	
20	64QAM	100	0	20.11	20.12	20.27	20.17	20.06	20.06	20.06	
20	256QAM	1	49	19.97	20.30	20.31	20.31	20.16	20.16	20.16	
20	256QAM	1	59	19.97	20.17	20.06	20.16	20.06	20.06	20.06	
20	256QAM	1	59	20.05	20.00	20.19	20.06	20.01	20.01	20.01	
20	256QAM	50	0	20.11	20.23	20.17	20.27	20.06	20.06	20.06	
20	256QAM	50	24	19.93	20.02	19.97	20.05	20.01	20.01	20.01	21.5
20	256QAM	50	24	20.05	20.15	20.17	20.28	20.02	20.02	20.02	
20	256QAM	100	0	20.10	20.17	20.23	20.23	20.02	20.02	20.02	
Channel											
Frequency (MHz)											
15	QPSK	0	0	20.23	20.24	20.23	20.23	20.23	20.23	20.23	
15	QPSK	1	37	19.68	20.15	20.09	20.23	20.08	20.08	20.08	22
15	QPSK	1	74	20.06	20.01	20.28	20.04	20.00	20.00	20.00	
15	QPSK	20	0	20.32	20.26	20.15	20.15	20.15	20.15	20.15	
15	QPSK	36	20	19.84	19.93	19.94	20.01	20.18	20.18	20.18	
15	QPSK	36	20	20.03	20.03	20.15	20.15	20.18	20.18	20.18	21.5
15	QPSK	75	0	20.05	20.12	20.28	20.18	20.09	20.09	20.09	
15	16QAM	1	0	20.09	20.26	20.27	20.16	20.09	20.09	20	
15	16QAM	1	37	19.68	20.15	20.09	20.23	20.07	20.07	20.07	
15	16QAM	1	74	20.05	20.06	20.25	20.06	20.02	20.02	20.02	
15	16QAM	20	0	20.22	20.20	20.29	20.15	20.18	20.18	20.18	
15	16QAM	20	0	19.84	19.90	19.90	20.00	20.06	20.06	20.06	
15	16QAM	36	20	19.83	19.93	19.95	19.93	20.08	20.08	20.08	21.5
15	16QAM	36	20	19.88	19.98	19.99	20.00	20.14	20.14	20.14	
15	16QAM	75	0	20.06	20.04	20.17	20.06	20.06	20.03	20.03	
15	16QAM	0	0	20.06	20.11	20.24	20.14	20.06	20.06	20.06	
15	256QAM	1	49	19.85	20.01	19.94	20.08	20.11	20.11	20.11	21.5
15	256QAM	1	74	19.65	19.91	20.12	20.03	19.87	20.03	20.03	
15	256QAM	1	74	19.68	19.91	20.12	20.03	19.87	20.03	20.03	
15	256QAM	20	0	20.32	20.26	20.15	20.15	20.15	20.15	20.15	
15	256QAM	36	20	19.81	19.90	19.91	20.02	20.02	20.02	20.02	
15	256QAM	36	20	20.02	20.13	20.08	20.16	20.09	20.09	20.09	
15	256QAM	75	0	20.07	20.02	20.18	20.18	20.02	20.02	20.02	
Channel											
Frequency (MHz)											
10	QPSK	0	0	20.29	20.16	20.14	20.14	20.13	20.13	20.13	
10	QPSK	1	25	20.00	20.14	20.10	20.21	20.13	20.13	20.13	22
10	QPSK	1	25	20.00	20.14	20.10	20.21	20.13	20.13	20.13	
10	QPSK	20	0	20.32	20.27	20.17	20.20	20.08	20.08	20.08	
10	QPSK	25	12	19.85	19.95	19.92	20.07	19.95	19.95	19.95	
10	QPSK	25	12	20.10	20.21	20.19	20.21	20.14	20.14	20.14	21.5
10	QPSK	50	0	20.11	20.15	20.31	20.14	20.20	20.20	20.20	
10	16QAM	1	0	20.15	20.32	20.29	20.18	20.09	20.09	20.09	
10	16QAM	1	25	19.96	20.04	20.19	20.19	20.05	20.05	20.05	21.5
10	16QAM	1	49	20.02	20.19	20.07	20.03	20.03	20.03	20.03	
10	16QAM	20	0	20.18	20.23	20.25	20.03	20.06	20.06	20.06	
10	16QAM	25	12	19.83	19.90	19.84	20.04	20.04	20.04	20.04	
10	16QAM	50	0	20.01	20.05	20.25	20.12	20.05	20.05	20.05	21.5
10	16QAM	50	0	20.07	20.14	20.25	20.14	20.03	20.03	20.03	
10	64QAM	1	0	20.17	20.30	20.27	20.34	20.11	20.11	20.11	
10	64QAM	1	25	19.69	20.08	20.04	20.12	20.03	20.03	20.03	21.5
10	64QAM	1	49	19.67	19.97	20.17	20.17	20.03	20.03	20.03	
10	64QAM	25	0	20.21	20.12	20.18	20.19	20.02	20.02	20.02	
10	64QAM	25	12	19.89	19.94	19.96	19.95	20.08	20.08	20.08	21.5
10	64QAM	50	0	20.00	20.09	20.20	20.19	20.06	20.06	20.06	
10	64QAM	50	0	20.01	20.01	20.21	20.12	20.05	20.05	20.05	
10	256QAM	1	25	19.82	19.96	19.99	20.14	20.11	20.11	20.11	
10	256QAM	1	25	19.87	20.14	19.98	20.11	20.03	20.03	20.03	
10	256QAM	1	49	20.00	19.92	20.16	19.97	20.03	20.03	20.03	
10	256QAM	25	12	19.88	19.93	19.96	19.97	20.04	20.04	20.04	
10	256QAM	25	12	19.90	19.98	19.96	19.91	19.91	19.91	19.91	
10	256QAM	25	25	20.02	20.08	20.00	20.15	20.09	20.09	20.09	
10	256QAM	50	0	20.02	20.05	20.20	20.14	20.04	20.04	20.04	
Channel											
Frequency (MHz)											
5	QPSK	0	0	20.26	20.36	20.36	20.36	20.36	20.36	20.36	
5	QPSK	1	12	20.01	20.16	20.05	20.17	20.07	20.07	20.07	22
5	QPSK	1	24	20.09	20.24	20.13	20.17	20.03	20.03	20.03	
5	QPSK	12	0	20.26	20.28	20.28	20.22	20.09	20.09	20.09	
5	QPSK	12	7	19.93	20.00	19.97	20.10	20.02	20.02	20.02	
5	QPSK	25	0	20.10	20.13	20.28	20.17	20.07	20.07	20.07	
5	QPSK	25	0	20.03	20.09	20.25	20.18	20.15	20.15	20.15	
5	16QAM	1	0	20.11	20.28	20.18	20.17	20.05	20.05	20.05	
5	16QAM	1	12	19.97	20.13	19.93	20.13	20.01	20.01	20.01	21.5
5	16QAM	1	24	20.02	20.15	20.10	19.92	19.79	19.79	19.79	
5	16QAM	12	7	19.80	19.88	19.84	19.95	19.95	19.95	19.95	
5	16QAM	12	13	19.86	20.02	20.12	20.08	19.98	19.98	19.98	
5	16QAM	25	0	20.08	20.18	20.25	20.17	20.02	20.02	20.02	
5	64QAM	1	0	20.18	20.24	20.22	20.30	20.05	20.05	20.05	
5	64QAM	1	12	19.97	20.06	20.04	20.14	20.04	20.04	20.04	21.5
5	64QAM	1	24	19.92	19.98	19.98	19.91	19.97	19.97	19.97	
5	64QAM	12	13	19.90	20.08	20.08	20.09	20.01	20.01	20.01	
5	64QAM	25	0	20.07	20.01	20.17	20.07	19.97	19.97	19.97	
5	256QAM	1	12	19.84	19.96	19.96	19.96	19.96	19.96	19.96	
5	256QAM	1	24	19.81	20.01	19.98	20.00	20.02	20.02	20.02	
5	256QAM	12	13	19.83	19.89	19.93	19.94	19.97	19.97	19.97	
5	256QAM	12	13	19.87	19.97	19.94	19.97	19.98	19.98	19.98	
5	256QAM	12	13	20.09	20.11	20.08	20.15	20.09	20.09	20.09	
5	256QAM	25	0	20.07	20.02	20.17	20.07	20.02	20.02	20.02	



Band 48_FCC Ant3														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power Low Meds Ch / Freqs	Power High Meds Ch / Freqs	Power High Ch / Freqs	Turn-up time (dBm)	MFR (dB)					
Channel				56540	56630	56760	56840							
Frequency (MHz)				56540	56630	56760	56840							
20	QPSK	1	0	12.51	12.60	12.48	12.48	14	0					
20	QPSK	1	49	12.43	12.43	12.49	12.48							
20	QPSK	1	99	12.42	12.39	12.41	12.38							
20	QPSK	50	0	12.32	12.44	12.43	12.46							
20	QPSK	50	24	12.37	12.49	12.38	12.43	14	0					
20	QPSK	50	99	12.38	12.47	12.42	12.35							
20	QPSK	100	0	12.35	12.54	12.44	12.45							
20	16QAM	1	0	12.40	12.56	12.38	12.38							
20	16QAM	1	49	12.35	12.31	12.43	12.43	14	0					
20	16QAM	1	99	12.30	12.37	12.38	12.31							
20	16QAM	50	0	12.21	12.35	12.39	12.35							
20	16QAM	50	24	12.24	12.39	12.32	12.37							
20	16QAM	50	50	12.34	12.38	12.36	12.28	14	0					
20	16QAM	100	0	12.26	12.51	12.37	12.28							
20	64QAM	1	0	12.45	12.55	12.35	12.45							
20	64QAM	1	49	12.38	12.37	12.44	12.43							
20	64QAM	1	99	12.35	12.34	12.35	12.28	14	0					
20	64QAM	50	0	12.27	12.32	12.29	12.23							
20	64QAM	50	24	12.28	12.38	12.27	12.39							
20	64QAM	50	50	12.35	12.43	12.31	12.23							
20	256QAM	1	0	12.26	12.44	12.40	12.32	14	0					
20	256QAM	1	0	12.42	12.50	12.43	12.47							
20	256QAM	1	49	12.35	12.33	12.43	12.40							
20	256QAM	1	99	12.38	12.33	12.32	12.24							
20	256QAM	50	0	12.22	12.33	12.29	12.28	14	0					
20	256QAM	50	24	12.29	12.43	12.29	12.30							
20	256QAM	50	50	12.38	12.35	12.35	12.31							
20	256QAM	100	0	12.33	12.48	12.33	12.38							
Channel				56715	56820	56760	56855							
Frequency (MHz)				56715	56820	56760	56855							
15	QPSK	1	0	12.43	12.49	12.39	12.48	14	0					
15	QPSK	1	37	12.33	12.30	12.43	12.42							
15	QPSK	1	74	12.38	12.27	12.31	12.36							
15	QPSK	86	0	12.24	12.39	12.30	12.27							
15	QPSK	86	20	12.33	12.41	12.25	12.29	14	0					
15	QPSK	75	0	12.38	12.41	12.31	12.28							
15	QPSK	75	0	12.27	12.47	12.41	12.38							
15	16QAM	1	0	12.28	12.47	12.27	12.30							
15	16QAM	1	37	12.27	12.34	12.36	12.24	14	0					
15	16QAM	1	74	12.25	12.28	12.28	12.19							
15	16QAM	58	0	12.08	12.33	12.30	12.28							
15	16QAM	86	20	12.22	12.35	12.12	12.31							
15	16QAM	86	58	12.22	12.25	12.30	12.19	14	0					
15	16QAM	75	0	12.24	12.47	12.25	12.31							
15	64QAM	1	0	12.48	12.48	12.28	12.32							
15	64QAM	1	37	12.35	12.33	12.36	12.40							
15	64QAM	1	74	12.27	12.28	12.25	12.27	14	0					
15	64QAM	58	0	12.24	12.28	12.19	12.21							
15	64QAM	58	20	12.16	12.27	12.22	12.23							
15	64QAM	86	58	12.28	12.36	12.27	12.28							
15	64QAM	75	0	12.13	12.40	12.32	12.27	14	0					
15	256QAM	1	0	12.29	12.43	12.29	12.41							
15	256QAM	1	37	12.31	12.34	12.38	12.32							
15	256QAM	1	74	12.28	12.28	12.24	12.18							
15	256QAM	58	0	12.10	12.23	12.26	12.29	14	0					
15	256QAM	86	20	12.25	12.35	12.17	12.15							
15	256QAM	86	58	12.30	12.25	12.22	12.23							
15	256QAM	75	0	12.27	12.46	12.22	12.26							
Channel				56920	56915	56925	56915							
Frequency (MHz)				56920	56915	56925	56915							
10	QPSK	1	0	12.40	12.49	12.46	12.47	14	0					
10	QPSK	1	25	12.31	12.32	12.43	12.38							
10	QPSK	1	49	12.37	12.30	12.37	12.30							
10	QPSK	16	0	12.28	12.33	12.37	12.34							
10	QPSK	25	12	12.25	12.37	12.30	12.30	14	0					
10	QPSK	25	25	12.29	12.36	12.37	12.22							
10	QPSK	80	0	12.24	12.51	12.40	12.31							
10	16QAM	1	0	12.27	12.46	12.26	12.24							
10	16QAM	1	25	12.33	12.20	12.33	12.38	14	0					
10	16QAM	1	49	12.22	12.26	12.32	12.29							
10	16QAM	25	0	12.07	12.24	12.26	12.31							
10	16QAM	25	12	12.18	12.36	12.27	12.24							
10	16QAM	80	0	12.03	12.25	12.23	12.15	14	0					
10	16QAM	50	0	12.18	12.47	12.25	12.30							
10	64QAM	1	0	12.48	12.48	12.25	12.40							
10	64QAM	1	25	12.29	12.35	12.40	12.31							
10	64QAM	1	49	12.27	12.27	12.32	12.22	14	0					
10	64QAM	25	0	12.17	12.22	12.16	12.24							
10	64QAM	25	12	12.18	12.34	12.22	12.27							
10	64QAM	80	0	12.13	12.41	12.28	12.21							
10	256QAM	1	0	12.29	12.39	12.32	12.42	14	0					
10	256QAM	1	25	12.25	12.28	12.35	12.28							
10	256QAM	1	49	12.28	12.25	12.21	12.18							
10	256QAM	25	0	12.18	12.23	12.22	12.27							
10	256QAM	25	12	12.25	12.51	12.25	12.28							
10	256QAM	25	25	12.21	12.30	12.28	12.25	14	0					
10	256QAM	50	0	12.20	12.38	12.31	12.34							
Channel				56975	56970	56975	56975							
Frequency (MHz)				56975	56970	56975	56975							
5	QPSK	1	0	12.45	12.51	12.46	12.42	14		0				
5	QPSK	1	12	12.35	12.35	12.46	12.42							
5	QPSK	1	24	12.35	12.27	12.38	12.29							
5	QPSK	12	0	12.25	12.38	12.30	12.38							
5	QPSK	12	7	12.33	12.42	12.32	12.39	14	0					
5	QPSK	12	13	12.33	12.33	12.28	12.27							
5	QPSK	25	0	12.21	12.47	12.36	12.41							
5	16QAM	1	0	12.37	12.48	12.23	12.26							
5	16QAM	1	12	12.26	12.23	12.38	12.35	14	0					
5	16QAM	1	24	12.17	12.51	12.26	12.28							
5	16QAM	12	0	12.16	12.25	12.28	12.33							
5	16QAM	12	7	12.14	12.36	12.16	12.30							
5	16QAM	12	13	12.24	12.30	12.30	12.21	14	0					



Band 48_FCC Ant5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power Low Middle Ch / Freqs	Power High Middle Ch / Freqs	Power High Ch / Freqs	Turn-up limit (dBm)	MPP (dB)
Channel				56540	56550	56560	56565	Turn-up limit (dBm)	MPP (dB)
Frequency (MHz)				56540	56550	56560	56565		
20	QPSK	1	0	14.65	14.75	14.87	14.93	15.8	0
20	QPSK	1	49	14.52	14.63	14.48	14.38		
20	QPSK	1	99	14.42	14.53	14.61	14.38		
20	QPSK	50	0	14.68	14.50	14.52	14.38		
20	QPSK	50	24	14.46	14.51	14.44	14.29	15.8	0
20	QPSK	50	50	14.47	14.58	14.46	14.32		
20	QPSK	100	0	14.44	14.54	14.53	14.30		
20	16QAM	1	0	14.69	14.63	14.61	14.50	15.8	0
20	16QAM	1	49	14.47	14.45	14.44	14.35		
20	16QAM	1	99	14.34	14.47	14.48	14.21		
20	16QAM	50	0	14.60	14.52	14.45	14.31		
20	16QAM	50	24	14.37	14.47	14.36	14.27	15.8	0
20	16QAM	50	50	14.44	14.44	14.36	14.29		
20	64QAM	100	0	14.32	14.57	14.45	14.24		
20	64QAM	1	0	14.05	14.72	14.61	14.44	15.8	0
20	64QAM	1	49	14.43	14.44	14.46	14.26		
20	64QAM	1	99	14.31	14.67	14.48	14.33		
20	64QAM	50	0	14.40	14.40	14.45	14.35		
20	64QAM	50	24	14.32	14.38	14.31	14.15	15.8	0
20	64QAM	50	50	14.36	14.65	14.38	14.28		
20	64QAM	100	0	14.32	14.46	14.47	14.26		
20	256QAM	1	0	14.61	14.62	14.60	14.42	15.8	0
20	256QAM	1	49	14.40	14.50	14.44	14.34		
20	256QAM	1	99	14.39	14.43	14.49	14.22		
20	256QAM	50	0	14.40	14.55	14.41	14.38		
20	256QAM	50	24	14.44	14.40	14.31	14.26	15.8	0
20	256QAM	50	50	14.38	14.63	14.41	14.25		
20	256QAM	100	0	14.37	14.43	14.45	14.28		
Channel				56515	56520	56560	56565	Turn-up limit (dBm)	MPP (dB)
Frequency (MHz)				56515	56520	56560	56565		
15	QPSK	1	0	14.63	14.65	14.60	14.43	15.8	0
15	QPSK	1	37	14.40	14.47	14.41	14.32		
15	QPSK	1	74	14.31	14.51	14.54	14.38		
15	QPSK	86	0	14.40	14.51	14.45	14.35		
15	QPSK	86	20	14.30	14.43	14.35	14.25	15.8	0
15	QPSK	75	0	14.41	14.50	14.40	14.28		
15	QPSK	75	0	14.40	14.43	14.47	14.19		
15	16QAM	1	0	14.46	14.58	14.58	14.46	15.8	0
15	16QAM	1	37	14.40	14.57	14.36	14.29		
15	16QAM	1	74	14.21	14.35	14.45	14.14		
15	16QAM	86	0	14.38	14.44	14.32	14.26		
15	16QAM	86	20	14.33	14.43	14.32	14.25	15.8	0
15	16QAM	86	39	14.37	14.41	14.25	14.25		
15	16QAM	75	0	14.26	14.38	14.43	14.10		
15	64QAM	1	0	14.54	14.67	14.48	14.40	15.8	0
15	64QAM	1	37	14.41	14.40	14.32	14.14		
15	64QAM	1	74	14.27	14.39	14.44	14.20		
15	64QAM	86	0	14.40	14.37	14.39	14.24		
15	64QAM	86	20	14.26	14.35	14.28	14.12	15.8	0
15	64QAM	86	39	14.24	14.40	14.35	14.11		
15	64QAM	75	0	14.26	14.37	14.38	14.11		
15	256QAM	1	0	14.62	14.60	14.42	14.39	15.8	0
15	256QAM	1	37	14.40	14.43	14.36	14.28		
15	256QAM	1	74	14.32	14.41	14.36	14.10		
15	256QAM	86	0	14.40	14.49	14.33	14.23		
15	256QAM	86	20	14.30	14.40	14.20	14.13	15.8	0
15	256QAM	86	39	14.33	14.43	14.28	14.18		
15	256QAM	75	0	14.25	14.36	14.42	14.20		
Channel				56595	56595	56595	56595	Turn-up limit (dBm)	MPP (dB)
Frequency (MHz)				56595	56595	56595	56595		
10	QPSK	1	0	14.64	14.62	14.62	14.44	15.8	0
10	QPSK	1	25	14.38	14.41	14.35	14.29		
10	QPSK	1	49	14.31	14.60	14.54	14.31		
10	QPSK	15	0	14.47	14.40	14.43	14.30		
10	QPSK	25	12	14.52	14.39	14.31	14.24	15.8	0
10	QPSK	25	25	14.39	14.50	14.39	14.23		
10	QPSK	50	0	14.33	14.45	14.45	14.27		
10	16QAM	1	0	14.63	14.67	14.60	14.46	15.8	0
10	16QAM	1	25	14.38	14.38	14.40	14.22		
10	16QAM	1	49	14.21	14.35	14.46	14.15		
10	16QAM	25	0	14.43	14.40	14.43	14.20		
10	16QAM	25	12	14.32	14.42	14.28	14.21	15.8	0
10	16QAM	25	25	14.34	14.37	14.33	14.24		
10	16QAM	50	0	14.29	14.46	14.38	14.20		
10	64QAM	1	0	14.46	14.58	14.52	14.39	15.8	0
10	64QAM	1	25	14.40	14.38	14.32	14.24		
10	64QAM	1	49	14.27	14.42	14.41	14.27		
10	64QAM	25	0	14.43	14.41	14.37	14.30		
10	64QAM	25	12	14.22	14.28	14.24	14.03	15.8	0
10	64QAM	25	25	14.24	14.45	14.35	14.20		
10	64QAM	50	0	14.29	14.38	14.39	14.16		
10	256QAM	1	0	14.46	14.53	14.46	14.39	15.8	0
10	256QAM	1	25	14.42	14.41	14.42	14.26		
10	256QAM	1	49	14.27	14.38	14.40	14.15		
10	256QAM	25	0	14.41	14.60	14.37	14.31		
10	256QAM	25	12	14.35	14.27	14.16	14.23	15.8	0
10	256QAM	25	25	14.32	14.41	14.38	14.21		
10	256QAM	50	0	14.26	14.32	14.42	14.16		
Channel				56595	56595	56595	56595	Turn-up limit (dBm)	MPP (dB)
Frequency (MHz)				56595	56595	56595	56595		
5	QPSK	1	0	14.60	14.63	14.53	14.40	15.8	0
5	QPSK	1	12	14.42	14.50	14.38	14.29		
5	QPSK	1	24	14.30	14.46	14.48	14.23		
5	QPSK	12	0	14.63	14.51	14.46	14.28		
5	QPSK	12	7	14.40	14.45	14.41	14.24	15.8	0
5	QPSK	12	13	14.39	14.59	14.37	14.29		
5	QPSK	25	0	14.33	14.45	14.42	14.29		
5	16QAM	1	0	14.61	14.62	14.55	14.37	15.8	0
5	16QAM	1	12	14.40	14.42	14.34	14.24		
5	16QAM	1	24	14.29	14.36	14.46	14.18		
5	16QAM	12	0	14.46	14.45	14.41	14.19		
5	16QAM	12	7	14.27	14.35	14.30	14.16	15.8	0
5	16QAM	12	13	14.34	14.36	14.23	14.19		
5	16QAM	25	0	14.21	14.38	14.35	14.19		
5	64QAM	1	0	14.63	14.69	14.48	14.37	15.8	0
5	64QAM	1	12	14.32	14.37	14.38	14.21		
5	64QAM	1	24	14.25	14.42	14.44	14.24		
5	64QAM	12	0	14.42	14.43	14.38	14.27		
5	64QAM	12	7	14.29	14.32	14.21	14.10	15.8	0
5	64QAM	12	13	14.30	14.60	14.24	14.21		
5	64QAM	25	0	14.36	14.33	14.36	14.20		
5	256QAM	1	0	14.61	14.56	14.45	14.34	15.8	0
5	256QAM	1	12	14.46	14.42	14.32	14.30		
5	256QAM	1	24	14.29	14.39	14.46	14.15		
5	256QAM	12	0	14.46	14.49	14.36	14.30		
5	256QAM	12	7	14.38	14.27	14.29	14.19	15.8	0
5	256QAM	12	13	14.29	14.40	14.32	14.18		
5	256QAM	25	0	14.26	14.39	14.39	14.20		



Reduced Power Mode for Main PA DSI9

		GSM 850 Amd			GSM 900 Amd			GSM 1800 Amd		
Band		Tx Power (dBm)			Tx Power (dBm)			Tx Power (dBm)		
Tx Channel		126	168	261	126	168	261	126	168	261
Frequency (MHz)		812.2	813.4	814.6	812.2	813.4	814.6	812.2	813.4	814.6
GSM 1 Tx limit		23.26	23.21	23.26	23.26	23.21	23.26	23.26	23.21	23.26
OPRS 1 Tx limit		23.02	23.04	23.08	23.02	23.04	23.08	23.02	23.04	23.08
OPRS 3 Tx limit		23.41	23.01	23.02	23.41	23.01	23.02	23.41	23.01	23.02
OPRS 3 Tx side		23.22	23.23	23.18	23.22	23.23	23.18	23.22	23.23	23.18
OPRS 3 Tx side		23.40	23.42	23.43	23.40	23.42	23.43	23.40	23.42	23.43
EDGE 1 Tx limit		23.01	23.04	23.08	23.01	23.04	23.08	23.01	23.04	23.08
EDGE 2 Tx limit		23.90	23.82	23.88	23.90	23.82	23.88	23.90	23.82	23.88
EDGE 3 Tx limit		23.27	23.07	23.01	23.27	23.07	23.01	23.27	23.07	23.01
EDGE 4 Tx limit		23.18	23.01	23.03	23.18	23.01	23.03	23.18	23.01	23.03
		GSM 1800 Amd			GSM 1800 Amd			GSM 1800 Amd		
Band		Tx Power (dBm)			Tx Power (dBm)			Tx Power (dBm)		
Tx Channel		512	861	810	512	861	810	512	861	810
Frequency (MHz)		1852.2	1853.4	1854.6	1852.2	1853.4	1854.6	1852.2	1853.4	1854.6
GSM 1 Tx limit		23.61	23.63	23.44	23.61	23.63	23.44	23.61	23.63	23.44
OPRS 1 Tx limit		23.80	23.84	23.46	23.80	23.84	23.46	23.80	23.84	23.46
OPRS 3 Tx limit		23.40	23.42	23.43	23.40	23.42	23.43	23.40	23.42	23.43
OPRS 3 Tx side		23.51	23.51	23.54	23.51	23.51	23.54	23.51	23.51	23.54
OPRS 4 Tx limit		23.70	23.72	23.72	23.70	23.72	23.72	23.70	23.72	23.72
EDGE 1 Tx limit		23.90	23.92	23.90	23.90	23.92	23.90	23.90	23.92	23.90
EDGE 2 Tx limit		23.80	23.87	23.92	23.80	23.87	23.92	23.80	23.87	23.92
EDGE 3 Tx limit		23.76	23.62	23.72	23.76	23.62	23.72	23.76	23.62	23.72
EDGE 4 Tx limit		23.27	23.33	23.09	23.27	23.33	23.09	23.27	23.33	23.09
		WCDMA R Amd			WCDMA R Amd			WCDMA R Amd		
Band		Tx Power (dBm)			Tx Power (dBm)			Tx Power (dBm)		
Tx Channel		5052	5056	5058	5052	5056	5058	5052	5056	5058
Frequency (MHz)		2021.4	2021.6	2021.8	2021.4	2021.6	2021.8	2021.4	2021.6	2021.8
SCPP-Rail0		17.68	17.77	17.87	18.76	17.83	17.79	17.83	18.10	18.24
SCPP-Rail1		17.68	17.67	17.74	18.76	17.74	17.67	17.74	18.10	18.24
SCPP-Rail2		18.77	18.76	18.88	17.76	18.82	18.80	18.87	18.10	18.24
SCPP-Rail3		18.83	18.78	18.74	17.76	18.52	18.71	18.76	18.10	18.24
SCPP-Rail4		18.15	18.31	18.40	17.76	18.30	18.37	18.51	17.76	18.24
SCPP-Rail5		18.41	18.58	18.51	17.76	18.24	18.48	18.37	17.76	18.24
SCPP-Rail6		17.72	17.72	17.74	17.76	18.58	18.71	18.10	18.10	18.24
SCPP-Rail7		17.07	18.77	18.99	17.76	17.04	18.74	18.97	18.10	18.24
SCPP-Rail8		18.43	18.47	18.52	17.76	18.44	18.50	18.58	17.76	18.24
SCPP-Rail9		18.28	18.49	18.48	17.76	18.30	18.59	18.40	17.76	18.24
SCPP-Rail10		18.38	18.79	18.76	17.76	17.05	18.85	18.79	18.10	18.24
SCPP-Rail11		18.84	18.82	18.80	18.76	18.84	18.85	18.80	18.10	18.24
SCPP-Rail12		18.76	18.52	18.68	18.76	18.77	18.04	18.52	17.76	18.24
SCPP-Rail13		18.76	18.82	18.80	18.76	18.43	18.87	18.58	18.10	18.24
SCPP-Rail14		18.88	17.71	18.98	17.76	18.99	17.82	18.80	18.10	18.24
		WCDMA R Amd			WCDMA R Amd			WCDMA R Amd		
Band		Tx Power (dBm)			Tx Power (dBm)			Tx Power (dBm)		
Tx Channel		4152	4156	4238	4152	4156	4238	4152	4156	4238
Frequency (MHz)		2021.4	2021.6	2021.8	2021.4	2021.6	2021.8	2021.4	2021.6	2021.8
SCPP-Rail0		17.68	17.77	17.87	18.76	17.83	17.79	17.83	18.10	18.24
SCPP-Rail1		17.68	17.67	17.74	18.76	17.74	17.67	17.74	18.10	18.24
SCPP-Rail2		18.77	18.76	18.88	17.76	18.82	18.80	18.87	18.10	18.24
SCPP-Rail3		18.83	18.78	18.74	17.76	18.52	18.71	18.76	18.10	18.24
SCPP-Rail4		18.15	18.31	18.40	17.76	18.30	18.37	18.51	17.76	18.24
SCPP-Rail5		18.41	18.58	18.51	17.76	18.24	18.48	18.37	17.76	18.24
SCPP-Rail6		17.72	17.72	17.74	17.76	18.58	18.71	18.10	18.10	18.24
SCPP-Rail7		17.07	18.77	18.99	17.76	17.04	18.74	18.97	18.10	18.24
SCPP-Rail8		18.43	18.47	18.52	17.76	18.44	18.50	18.58	17.76	18.24
SCPP-Rail9		18.28	18.49	18.48	17.76	18.30	18.59	18.40	17.76	18.24
SCPP-Rail10		18.38	18.79	18.76	17.76	17.05	18.85	18.79	18.10	18.24
SCPP-Rail11		18.84	18.82	18.80	18.76	18.84	18.85	18.80	18.10	18.24
SCPP-Rail12		18.76	18.52	18.68	18.76	18.77	18.04	18.52	17.76	18.24
SCPP-Rail13		18.76	18.82	18.80	18.76	18.43	18.87	18.58	18.10	18.24
SCPP-Rail14		18.88	17.71	18.98	17.76	18.99	17.82	18.80	18.10	18.24



Band 2 Ant0												
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Max [Ch / Freq]	Power Min [Ch / Freq]	Power Max [Ch / Freq]	Turn-up time [sec]	MPR [dB]				
Channel												
Frequency [MHz]												
20	QPSK	1	0	20.48	20.50	20.54	21.3	0				
20	QPSK	1	49	20.45	20.47	20.44						
20	QPSK	1	99	20.37	20.49	20.41						
20	QPSK	50	0	20.48	20.52	20.38						
20	QPSK	50	24	20.35	20.41	20.35						
20	QPSK	50	50	20.35	20.41	20.30						
20	QPSK	100	0	20.48	20.49	20.45						
20	QPSK	100	24	20.40	20.40	20.39						
20	QPSK	1	99	20.34	20.32	20.45	21.3	0				
20	QPSK	1	99	20.32	20.32	20.45						
20	QPSK	50	0	20.36	20.33	20.21						
20	QPSK	50	24	20.38	20.35	20.21						
20	QPSK	50	50	20.29	20.40	20.30						
20	QPSK	100	0	20.32	20.40	20.39						
20	QPSK	100	24	20.29	20.30	20.29						
20	QPSK	1	49	20.42	20.43	20.31	21.3	0				
20	QPSK	1	99	20.32	20.35	20.30						
20	QPSK	50	0	20.39	20.39	20.21						
20	QPSK	50	24	20.38	20.45	20.36						
20	QPSK	50	50	20.35	20.41	20.32						
20	QPSK	100	0	20.28	20.39	20.32						
20	QPSK	100	24	20.28	20.39	20.32						
20	QPSK	1	49	19.89	19.86	19.84	20.5	0.8				
20	QPSK	1	99	19.82	19.81	19.73						
20	QPSK	50	0	19.86	19.80	19.73						
20	QPSK	50	24	19.68	19.77	19.66						
20	QPSK	50	50	19.58	19.78	19.73						
20	QPSK	100	0	19.61	19.75	19.71						
Channel												
Frequency [MHz]												
15	QPSK	1	0	20.38	20.42	20.49	21.3	0				
15	QPSK	1	49	20.37	20.41	20.35						
15	QPSK	1	74	20.25	20.38	20.34						
15	QPSK	36	0	20.42	20.44	20.34						
15	QPSK	36	24	20.22	20.34	20.25						
15	QPSK	36	39	20.23	20.37	20.23						
15	QPSK	75	0	20.37	20.39	20.41	21.3	0				
15	QPSK	75	0	20.28	20.32	20.32						
15	QPSK	1	37	20.25	20.25	20.36						
15	QPSK	1	74	20.16	20.28	20.24						
15	QPSK	36	24	20.31	20.28	20.28						
15	QPSK	36	39	20.29	20.39	20.23						
15	QPSK	75	0	20.25	20.37	20.16						
15	QPSK	1	0	20.28	20.45	20.37	21.3	0				
15	QPSK	1	99	20.25	20.37	20.16						
15	QPSK	36	0	20.22	20.32	20.21						
15	QPSK	36	24	20.34	20.33	20.12						
15	QPSK	36	39	20.12	20.32	20.15						
15	QPSK	75	0	20.16	20.33	20.26						
15	QPSK	75	0	20.16	20.33	20.26						
15	QPSK	1	37	19.84	19.78	19.85	20.5	0.8				
15	QPSK	1	74	19.86	19.71	19.84						
15	QPSK	36	24	19.84	19.84	19.84						
15	QPSK	36	39	19.54	19.89	19.83						
15	QPSK	75	0	19.58	19.76	19.84						
15	QPSK	75	0	19.43	19.71	19.87						
Channel												
Frequency [MHz]												
10	QPSK	1	0	20.41	20.42	20.34	21.3	0				
10	QPSK	1	25	20.41	20.42	20.34						
10	QPSK	1	49	20.29	20.37	20.42						
10	QPSK	1	74	20.29	20.34	20.38						
10	QPSK	25	12	20.29	20.29	20.23						
10	QPSK	25	25	20.25	20.29	20.26						
10	QPSK	1	0	20.37	20.39	20.37	21.3	0				
10	QPSK	1	0	20.37	20.40	20.29						
10	QPSK	1	25	20.29	20.37	20.37						
10	QPSK	1	25	20.29	20.31	20.27						
10	QPSK	25	12	20.33	20.31	20.18						
10	QPSK	25	12	20.33	20.18	20.18						
10	QPSK	50	0	20.28	20.40	20.27						
10	QPSK	50	0	20.18	20.40	20.27						
10	QPSK	1	49	20.22	20.30	20.27	21.3	0				
10	QPSK	1	49	20.29	20.42	20.26						
10	QPSK	25	0	20.28	20.24	20.17						
10	QPSK	25	0	20.27	20.38	20.23						
10	QPSK	25	25	20.17	20.38	20.26						
10	QPSK	50	0	20.21	20.25	20.20	21.3	0				
10	QPSK	50	0	20.21	20.25	20.20						
10	QPSK	50	0	20.22	19.83	19.79						
10	QPSK	1	25	19.81	19.71	19.86	20.5	0.8				
10	QPSK	1	25	19.88	19.74	19.86						
10	QPSK	25	12	19.68	19.79	19.74						
10	QPSK	25	12	19.50	19.79	19.80						
10	QPSK	25	25	19.53	19.69	19.76						
10	QPSK	50	0	19.41	19.79	19.89						
Channel												
Frequency [MHz]												
5	QPSK	1	0	20.37	20.37	20.31	21.3	0				
5	QPSK	1	12	20.34	20.37	20.31						
5	QPSK	1	24	20.37	20.45	20.42						
5	QPSK	36	0	20.43	20.43	20.35						
5	QPSK	12	7	20.31	20.39	20.26						
5	QPSK	12	13	20.24	20.35	20.26						
5	QPSK	1	0	20.29	20.35	20.31	21.3	0				
5	QPSK	1	0	20.30	20.48	20.36						
5	QPSK	1	12	20.24	20.33	20.32						
5	QPSK	1	24	20.28	20.45	20.34						
5	QPSK	12	0	20.26	20.28	20.19						
5	QPSK	12	7	20.26	20.30	20.16						
5	QPSK	12	13	20.17	20.27	20.23						
5	QPSK	25	0	20.33	20.40	20.18						
5	QPSK	1	0	20.19	20.43	20.39	21.3	0				
5	QPSK	1	0	20.17	20.27	20.23						
5	QPSK	1	24	20.27	20.39	20.29						
5	QPSK	12	0	20.32	20.26	20.28						
5	QPSK	12	0	20.30	20.41	20.32						
5	QPSK	12	13	20.21	20.33	20.29						
5	QPSK	25	0	20.14	20.29	20.19						
5	QPSK	1	0	19.80	19.78	19.78	20.5	0.8				
5	QPSK	1	12	19.82	19.73	19.86						
5	QPSK	12	13	19.80	19.79	19.73						
5	QPSK	25	0	19.52	19.74	19.86						
5	QPSK	25	0	19.42	19.66	19.63						
Channel												
Frequency [MHz]												
3	QPSK	1	0	20.38	20.47	20.47	21.3	0				
3	QPSK	1	8	20.43	20.44	20.40						
3	QPSK	1	14	20.31	20.36	20.35						
3	QPSK	8	0	20.37	20.47	20.35						
3	QPSK	8	4	20.24	20.38	20.22						
3	QPSK	8	7	20.27	20.27	20.26						
3	QPSK	1	0	20.32	20.40	20.40	21.3	0				
3	QPSK	1	0	20.33	20.48	20.25						
3	QPSK	1	8	20.32	20.30	20.40						
3	QPSK	1	14	20.23	20.45	20.35						
3	QPSK	8	0	20.27	20.28	20.28						
3	QPSK	8	4	20.28	20.22	20.08						
3	QPSK	15	0	20.24	20.39	20.19						
3	QPSK	15	0	20.28	20.41	20.18						
3	QPSK	1	0	20.17	20.41	20.46	21.3	0				
3	QPSK	1	0	20.34	20.39	20.31						
3	QPSK	1	14	20.25	20.45	20.2						

Band 2 Ant0									
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Max [Ch / Freq]	Power Min [Ch / Freq]	Power Max [Ch / Freq]	Turn-up time [sec]	MPR [dB]	
Channel									
Frequency [MHz]									
1.4	QPSK	1	0	20.36	20.43	20.51	21.3	0	
1.4	QPSK	1	8	20.40	20.44	20.47			
1.4	QPSK	1	14	20.31	20.36	20.35			
1.4	QPSK	8	0	20.37	20.47	20.35			
1.4	QPSK	8	4	20.24	20.38	20.22			
1.4	QPSK	8	7	20.27	20.27	20.26			
1.4	QPSK	1	0	20.32	20.40	20.40	21.3	0	
1.4	QPSK	1	0	20.33	20.48	20.25			
1.4	QPSK	1	8	20.32	20.30	20.40			
1.4	QPSK	1	14	20.23	20.45	20.35			
1.4	QPSK	8	0	20.27	20.28	20.28			
1.4	QPSK	8	4	20.28	20.22	20.08			
1.4	QPSK	15	0	20.24	20.39	20.19			
1.4	QPSK	15	0	20.28	20.41	20.18			
1.4	QPSK	1	0	20.17	20.41	20.46	21.3	0	
1.4	QPSK	1	0	20.34	20.39	20.31			
1.4	QPSK	1	14	20.25	20.45	20.2			

Band 2 Ant0									
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Max [Ch / Freq]	Power Min [Ch / Freq]	Power Max [Ch / Freq]	Turn-up time [sec]	MPR [dB]	
Channel									
Frequency [MHz]									
1.4	QPSK	1	0	20.36	20.43	20.51	21.3	0	
1.4	QPSK	1	8	20.40	20.44	20.47			
1.4	QPSK	1	14	20.31	20.36	20.35			
1.4	QPSK	8	0	20.37	20.47	20.35			
1.4	QPSK	8	4	20.24	20.38	20.22			
1.4	QPSK	8	7	20.27	20.27	20.26			
1.4	QPSK	1	0	20.32	20.40	20.40	21.3	0	
1.4	QPSK	1	0	20.33	20.48	20.25			
1.4	QPSK	1	8	20.32	20.30	20.40			
1.4	QPSK	1	14	20.23	20.45	20.35			
1.4	QPSK	8	0	20.27	20.28	20.28			
1.4	QPSK	8	4	20.28	20.22	20.08			
1.4	QPSK	15	0	20.24	20.39	20.19			
1.4	QPSK	15	0	20.28	20.41	20.18			
1.4	QPSK	1	0	20.17	20.41	20.46	21.3	0	
1.4	QPSK	1	0	20.34	20.39	20.31			
1.4	QPSK	1	14	20.25	20.45	20.2			

Band 2 Ant0									
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Max [Ch / Freq]	Power Min [Ch / Freq]	Power Max [Ch / Freq]	Turn-up time [sec]	MPR [dB]	
Channel									
Frequency [MHz]									
1.4	QPSK	1	0	20.36	20.43	20.51	21.3	0	
1.4	QPSK	1	8	20.40	20.44	20.47			
1.4	QPSK	1	14	20.31	20.36	20.35			
1.4	QPSK	8	0	20.37	20.47	20.35			
1.4	QPSK	8	4	20.24	20.38	20.22			
1.4	QPSK	8	7	20.27	20.27	20.26			
1.4	QPSK	1	0	20.32	20.40	20.40	21.3	0	
1.4	QPSK	1	0	20.33	20.48	20.25			
1.4	QPSK	1	8	20.32	20.30	20.40			
1.4	QPSK	1	14	20.23	20.45	20.35			
1.4	QPSK	8	0	20.27	20.28	20.28			
1.4	QPSK	8	4	20.28	20.22	20.08			
1.4	QPSK	15	0	20.24	20.39	20.19			
1.4	QPSK	15	0	20.28	20.41	20.18			
1.4	QPSK	1	0	20.17	20.41	20.46	21.3	0	
1.4	QPSK	1	0	20.34	20.39	20.31			
1.4	QPSK	1	14	20.25					



Band 12 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.59	22.64	22.52	24	0	
10	QPSK	1	25	22.53	22.54	22.43			
10	QPSK	1	49	22.54	22.61	22.43			
10	QPSK	25	0	22.55	22.58	22.49			
10	QPSK	25	12	22.48	22.49	22.46	24	0	
10	QPSK	25	25	22.47	22.59	22.41			
10	QPSK	50	0	22.47	22.54	22.44			
10	16QAM	1	0	22.45	22.49	22.46			
10	16QAM	1	25	22.40	22.42	22.33	24	0	
10	16QAM	1	49	22.38	22.42	22.36			
10	16QAM	25	0	21.82	21.89	21.82			
10	16QAM	25	12	21.86	21.79	21.71			
10	16QAM	25	25	21.75	21.81	21.78	23.5	0.5	
10	16QAM	50	0	21.76	21.83	21.73			
10	64QAM	1	0	21.85	21.90	21.87			
10	64QAM	1	25	21.82	21.84	21.76			
10	64QAM	1	49	21.83	21.86	21.80	22.5	1.5	
10	64QAM	25	0	20.78	20.79	20.72			
10	64QAM	25	12	20.87	20.72	20.89			
10	64QAM	25	25	20.89	20.75	20.86			
10	256QAM	1	25	18.73	18.83	18.77	20.5	3.5	
10	256QAM	1	49	18.73	18.83	18.78			
10	256QAM	25	0	18.80	18.82	18.87			
10	256QAM	25	12	18.76	18.74	18.70			
10	256QAM	25	25	18.70	18.72	18.66	20.5	3.5	
10	256QAM	50	0	20.95	20.98	20.95			
10	256QAM	50	0	18.70	18.78	18.73			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.52	22.55	22.48	24	0	
5	QPSK	1	12	22.47	22.48	22.38			
5	QPSK	1	24	22.50	22.52	22.38			
5	QPSK	12	0	22.52	22.54	22.46			
5	QPSK	12	7	22.48	22.43	22.41	24	0	
5	QPSK	12	13	22.44	22.42	22.35			
5	QPSK	25	0	22.41	22.48	22.40			
5	16QAM	1	0	22.41	22.45	22.38			
5	16QAM	1	12	22.34	22.39	22.30	24	0	
5	16QAM	1	24	22.32	22.38	22.31			
5	16QAM	12	0	21.76	21.80	21.76			
5	16QAM	12	7	21.78	21.79	21.68			
5	16QAM	12	13	21.80	21.82	21.66	23.5	0.5	
5	16QAM	25	0	21.70	21.78	21.64			
5	64QAM	1	0	21.78	21.86	21.78			
5	64QAM	1	12	21.74	21.80	21.71			
5	64QAM	1	24	21.76	21.79	21.61	22.5	1.5	
5	64QAM	12	0	20.74	20.71	20.65			
5	64QAM	12	13	20.70	20.72	20.63			
5	64QAM	25	0	20.68	20.67	20.63			
5	256QAM	1	0	18.76	18.81	18.73	20.5	3.5	
5	256QAM	1	12	18.69	18.81	18.73			
5	256QAM	1	24	18.66	18.77	18.70			
5	256QAM	12	0	18.73	18.75	18.69			
5	256QAM	12	7	18.61	18.71	18.68	20.5	3.5	
5	256QAM	12	13	18.67	18.64	18.57			
5	256QAM	25	0	18.61	18.72	18.66			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.50	22.58	22.48	24	0	
3	QPSK	1	14	22.51	22.57	22.41			
3	QPSK	1	28	22.47	22.50	22.48			
3	QPSK	8	0	22.43	22.44	22.42			
3	QPSK	8	7	22.44	22.48	22.38	24	0	
3	QPSK	16	0	22.42	22.46	22.36			
3	16QAM	1	0	22.39	22.44	22.43			
3	16QAM	1	8	22.38	22.38	22.25			
3	16QAM	1	16	22.31	22.38	22.33	23.5	0.5	
3	16QAM	8	0	21.79	21.84	21.80			
3	16QAM	8	4	21.89	21.87	21.65			
3	16QAM	8	7	21.72	21.73	21.60			
3	64QAM	1	0	21.87	21.80	21.69	23.5	0.5	
3	64QAM	1	0	21.80	21.84	21.81			
3	64QAM	1	8	21.72	21.82	21.74			
3	64QAM	1	14	21.78	21.81	21.79			
3	64QAM	8	0	20.71	20.77	20.69	22.5	1.5	
3	64QAM	8	4	20.67	20.65	20.65			
3	64QAM	8	7	20.61	20.67	20.61			
3	64QAM	15	0	20.69	20.68	20.66			
3	256QAM	1	0	18.71	18.80	18.75	20.5	3.5	
3	256QAM	1	8	18.65	18.70	18.67			
3	256QAM	1	14	18.69	18.74	18.72			
3	256QAM	8	0	18.76	18.78	18.75			
3	256QAM	8	4	18.65	18.71	18.63	20.5	3.5	
3	256QAM	8	7	18.58	18.64	18.50			
3	256QAM	15	0	18.62	18.75	18.67			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.53	22.55	22.48	24	0	
1.4	QPSK	1	3	22.46	22.49	22.40			
1.4	QPSK	1	5	22.48	22.56	22.39			
1.4	QPSK	3	0	22.45	22.46	22.36			
1.4	QPSK	3	1	22.42	22.42	22.39	24	0	
1.4	QPSK	3	3	22.41	22.41	22.39			
1.4	QPSK	6	0	22.43	22.47	22.37			
1.4	16QAM	1	0	22.42	22.41	22.39			
1.4	16QAM	1	3	22.33	22.35	22.23	24	0	
1.4	16QAM	1	6	22.27	22.38	22.26			
1.4	16QAM	3	0	22.43	22.43	22.36			
1.4	16QAM	3	1	22.38	22.38	22.27			
1.4	16QAM	3	3	22.31	22.39	22.29	23.5	0.5	
1.4	16QAM	6	0	21.72	21.76	21.69			
1.4	64QAM	1	0	21.79	21.84	21.84			
1.4	64QAM	1	3	21.72	21.77	21.69			
1.4	64QAM	1	5	21.77	21.82	21.77	23.5	0.5	
1.4	64QAM	3	0	21.80	21.84	21.82			
1.4	64QAM	3	1	21.75	21.77	21.70			
1.4	64QAM	3	3	21.78	21.81	21.81			
1.4	64QAM	6	0	20.62	20.69	20.62	22.5	1.5	
1.4	256QAM	1	0	18.72	18.86	18.78			
1.4	256QAM	1	3	18.71	18.70	18.72			
1.4	256QAM	1	5	18.71	18.73	18.76			
1.4	256QAM	3	0	18.77	18.73	18.89	20.5	3.5	
1.4	256QAM	3	1	18.67	18.71	18.67			
1.4	256QAM	3	3	18.59	18.66	18.56			
1.4	256QAM	6	0	18.65	18.74	18.68			

Band 13 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.76	22.76	22.76	24	0	
10	QPSK	1	25	22.71	22.71	22.71			
10	QPSK	1	49	22.68	22.68	22.68			
10	QPSK	25	0	22.71	22.71	22.71			
10	QPSK	25	12	22.64	22.64	22.64	24	0	
10	QPSK	25	25	22.62	22.62	22.62			
10	QPSK	50	0	22.63	22.63	22.63			
10	16QAM	1	0	22.59	22.59	22.59			
10	16QAM	1	25	22.48	22.48	22.48	24	0	
10	16QAM	1	49	22.53	22.53	22.53			
10	16QAM	25	0	22.54	22.54	22.54			
10	16QAM	25	12	22.50	22.50	22.50			
10	16QAM	25	25	22.45	22.45	22.45	23.5	0.5	
10	16QAM	50	0	22.46	22.46	22.46			
10	16QAM	50	25	22.11	22.11	22.11			
10	16QAM	1	26	22.38	22.38	22.38			
10	16QAM	1	49	22.53	22.53	22.53	23.5	0.5	
10	16QAM	1	25	22.40	22.40	22.40			
10	16QAM	25	12	21.38	21.38	21.38			
10	16QAM	25	25	21.30	21.30	21.30			
10	16QAM	50	0	21.34	21.34	21.34	22.5	1.5	
10	25QAM	1	0	19.11	19.11	19.11			
10	25QAM	1	25	19.00	19.00	19.00			
10	25QAM	1	49	19.01	19.01	19.01			
10	25QAM	25	0	19.56	19.56	19.56	20.5	3.5	
10	25QAM	25	12	19.51	19.51	19.51			
10	25QAM	50	0	19.42	19.42	19.42			
10	25QAM	50	25	19.44	19.44	19.44			
Channel				22.65 <th>22.65<th>22.65<th>22.65<th>22.65<th>22.65</th></th></th></th></th>	22.65 <th>22.65<th>22.65<th>22.65<th>22.65</th></th></th></th>	22.65 <th>22.65<th>22.65<th>22.65</th></th></th>	22.65 <th>22.65<th>22.65</th></th>	22.65 <th>22.65</th>	22.65
Frequency (MHz)				77.95 <th>78.25<th>78.64<th>78.64<th>78.64<th>78.64</th></th></th></th></th>	78.25 <th>78.64<th>78.64<th>78.64<th>78.64</th></th></th></th>	78.64 <th>78.64<th>78.64<th>78.64</th></th></th>	78.64 <th>78.64<th>78.64</th></th>	78.64 <th>78.64</th>	78.64
10	QPSK	1	0	22.68	22.70	22.64	24	0	
5	QPSK	1	12	22.67	22.61	22.62			
5	QPSK	1	24	22.60	22.63	22.62			
5	QPSK	12	8	22.59	22.67	22.60			
5	QPSK	12	7	22.67	22.61	22.62	24	0	
5	QPSK	12	19	22.46	22.55	22.46			
5	QPSK	25	0	22.52	22.59	22.52			
5	16QAM	1	8	22.43	22.48	22.43			
5	16QAM	1	24	22.46	22.48	22.46	24	0	
5	16QAM	1	24	22.39	22.48	22.42			
5	16QAM	12	0	22.18	22.25	22.16			
5	16QAM	12	19	22.11	22.21	22.11			
5	16QAM	25	0	22.20	22.23	22.21	23.5	0.5	
5	16QAM	25	12	22.11	22.05	22.06			
5	16QAM	1	12	22.26	22.38	22.27			
5	16QAM	1	24	22.41	22.47	22.38			
5	16QAM	12	7	21.30	21.31	21.27	22.5	1.5	
5	16QAM	12	7	21.30	21.31	21.27			
5	16QAM	12	19	21.16	21.21	21.16			
5	16QAM	12	19	21.12	21.15	21.05			
5	25QAM	1	0	18.99	19.05	19.01	20.5	3.5	
5	25QAM	1	12	19.14	19.16	19.10			
5	25QAM	1	24	19.42	19.46	19.43			
5	25QAM	12	19	19.49	19.48	19.45			
5	25QAM	12	7	19.35	19.41	19.39	20.5	3.5	
5	25QAM	12	19	19.41	19.43	19.41			
5	25QAM	25	0	19.25	19.35	19.27			
5	25QAM	25	12	19.25	19.35	19.27			



Band 25 Ant0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
1850 1860 1900														
20	QPSK	1	0	20.54	20.55	20.60	21.3	0						
20	QPSK	1	49	20.52	20.59	20.62								
20	QPSK	1	99	20.47	20.62	20.63								
20	QPSK	50	0	20.54	20.56	20.62	21.3	0						
20	QPSK	50	24	20.45	20.54	20.62								
20	QPSK	50	50	20.47	20.54	20.38								
20	QPSK	100	0	20.45	20.55	20.47	21.3	0						
20	HQDM	1	0	20.43	20.62	20.51								
20	HQDM	1	49	20.41	20.48	20.46								
20	HQDM	1	99	20.37	20.61	20.46	21.3	0						
20	HQDM	50	0	20.56	20.43	20.41								
20	HQDM	50	24	20.49	20.44	20.31								
20	HQDM	50	50	20.37	20.48	20.35	21.3	0						
20	HQDM	100	0	20.49	20.52	20.32								
20	HQDM	1	0	20.42	20.50	20.50								
20	HQDM	1	49	20.48	20.49	20.44	21.3	0						
20	HQDM	1	99	20.43	20.58	20.44								
20	HQDM	50	24	20.41	20.51	20.34								
20	HQDM	50	50	20.35	20.51	20.35	21.3	0						
20	HQDM	100	0	20.52	20.48	20.44								
20	SSBQAM	1	0	19.88	19.71	19.64								
20	SSBQAM	1	49	19.86	19.69	19.62	20	1.3						
20	SSBQAM	1	99	19.64	19.67	19.65								
20	SSBQAM	50	24	19.57	19.63	19.62								
20	SSBQAM	50	24	19.51	19.59	19.55	20	1.3						
20	SSBQAM	100	50	19.45	19.54	19.50								
20	SSBQAM	100	0	19.52	19.58	19.47								
Channel														
2611.5 2634.0 2661.5														
Frequency (MHz)														
1857.5 1860 1907.5														
15	QPSK	1	0	20.42	20.52	20.57	21.3	0						
15	QPSK	1	37	20.42	20.56	20.43								
15	QPSK	1	74	20.34	20.56	20.44								
15	QPSK	25	0	20.50	20.47	20.38	21.3	0						
15	QPSK	25	25	20.40	20.45	20.45								
15	QPSK	36	36	20.44	20.51	20.33								
15	QPSK	75	0	20.36	20.41	20.41	21.3	0						
15	HQDM	1	0	20.39	20.56	20.48								
15	HQDM	1	37	20.35	20.37	20.39								
15	HQDM	1	74	20.28	20.47	20.35	21.3	0						
15	HQDM	36	0	20.41	20.40	20.39								
15	HQDM	36	25	20.31	20.33	20.19								
15	HQDM	75	0	20.38	20.44	20.31	21.3	0						
15	HQDM	1	0	20.29	20.48	20.41								
15	HQDM	1	37	20.45	20.39	20.42								
15	HQDM	1	74	20.37	20.53	20.40	21.3	0						
15	HQDM	36	0	20.31	20.39	20.38								
15	HQDM	36	25	20.28	20.37	20.31								
15	HQDM	36	36	20.32	20.46	20.25	21.3	0						
15	HQDM	75	0	20.29	20.44	20.40								
15	SSBQAM	1	0	19.63	19.67	19.65								
15	SSBQAM	1	37	19.61	19.66	19.56	20	1.3						
15	SSBQAM	1	74	19.61	19.63	19.62								
15	SSBQAM	36	0	19.62	19.55	19.62								
15	SSBQAM	36	25	19.43	19.58	19.52	20	1.3						
15	SSBQAM	75	0	19.35	19.51	19.41								
15	SSBQAM	75	0	19.43	19.52	19.43								
Channel														
2659.0 2634.0 2664.0														
Frequency (MHz)														
1855 1860 1910														
10	QPSK	1	0	20.41	20.54	20.52	21.3	0						
10	QPSK	1	25	20.42	20.51	20.43								
10	QPSK	1	49	20.34	20.55	20.44								
10	QPSK	15	0	20.47	20.47	20.47	21.3	0						
10	QPSK	25	12	20.38	20.52	20.39								
10	QPSK	25	25	20.39	20.50	20.34								
10	QPSK	36	36	20.42	20.43	20.42	21.3	0						
10	HQDM	1	0	20.32	20.51	20.40								
10	HQDM	1	25	20.36	20.44	20.45								
10	HQDM	1	49	20.34	20.48	20.35	21.3	0						
10	HQDM	25	0	20.42	20.37	20.39								
10	HQDM	25	12	20.32	20.31	20.24								
10	HQDM	36	25	20.27	20.39	20.29	21.3	0						
10	HQDM	50	0	20.31	20.41	20.32								
10	HQDM	1	0	20.34	20.50	20.43								
10	HQDM	1	25	20.38	20.44	20.45	21.3	0						
10	HQDM	1	49	20.36	20.48	20.32								
10	HQDM	25	0	20.39	20.41	20.32								
10	HQDM	25	12	20.31	20.40	20.35	21.3	0						
10	HQDM	36	25	20.26	20.43	20.38								
10	HQDM	50	0	20.18	20.35	20.40								
10	SSBQAM	1	0	19.65	19.68	19.67	20	1.3						
10	SSBQAM	1	25	19.69	19.65	19.54								
10	SSBQAM	1	49	19.59	19.64	19.55								
10	SSBQAM	25	0	19.51	19.58	19.52	20	1.3						
10	SSBQAM	25	12	19.44	19.51	19.50								
10	SSBQAM	25	25	19.37	19.50	19.44								
10	SSBQAM	50	0	19.46	19.51	19.47	20	1.3						
10	SSBQAM	1	0	19.46	19.51	19.47								
10	SSBQAM	1	25	19.46	19.51	19.47								
Channel														
2665.5 2634.0 2667.5														
Frequency (MHz)														
1852.5 1860 1912.5														
5	QPSK	1	0	20.41	20.53	20.52	21.3	0						
5	QPSK	1	12	20.43	20.48	20.42								
5	QPSK	1	24	20.44	20.59	20.43								
5	QPSK	1	0	20.43	20.47	20.35	21.3	0						
5	QPSK	12	7	20.41	20.45	20.32								
5	QPSK	12	13	20.35	20.50	20.38								
5	QPSK	15	0	20.37	20.51	20.35	21.3	0						
5	HQDM	1	0	20.30	20.50	20.44								
5	HQDM	1	12	20.27	20.38	20.42								
5	HQDM	1	24	20.25	20.58	20.35	21.3	0						
5	HQDM	12	5	20.37	20.35	20.39								
5	HQDM	12	7	20.28	20.38	20.18								
5	HQDM	15	0	20.29	20.35	20.25	21.3	0						
5	HQDM	25	0	20.33	20.42	20.34								
5	HQDM	1	0	20.37	20.49	20.42								

Band 30 Ant0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	18.32			19.1	0			
10	QPSK	1	24	18.31							
10	QPSK	1	48	18.28							
10	QPSK	25	0	18.21			19.1	0			
10	QPSK	25	12	18.21							
10	QPSK	25	25	18.17							
10	QPSK	50	0	18.11			19.1	0			
10	16QAM	1	0	18.24							
10	16QAM	1	24	18.22							
10	16QAM	1	48	18.16			19.1	0			
10	16QAM	25	0	18.08							
10	16QAM	25	12	18.09							
10	16QAM	25	25	18.06			19.1	0			
10	16QAM	50	0	18.09							
10	16QAM	1	0	18.21			19.1	0			
10	64QAM	1	24	18.17							
10	64QAM	1	48	18.24							
10	64QAM	25	0	18.14			19.1	0			
10	64QAM	25	12	18.16							
10	64QAM	25	25	18.10							
10	64QAM	50	0	18.07			18	1.1			
10	256QAM	1	0	18.35							
10	256QAM	1	25	18.29							
10	256QAM	1	48	18.32			18	1.1			
10	256QAM	25	0	18.29							
10	256QAM	25	12	18.29							
10	256QAM	25	25	18.23			18	1.1			
10	256QAM	50	0	18.23							
Channel											
Frequency (MHz)											
5	QPSK	1	0	18.23	18.22	18.27	19.1	0			
5	QPSK	1	12	18.23	18.22	18.29					
5	QPSK	1	24	18.22	18.14	18.21					
5	QPSK	12	0	18.09	18.12	18.12	19.1	0			
5	QPSK	12	7	18.14	18.10	18.17					
5	QPSK	12	13	18.06	18.10	18.05					
5	QPSK	25	0	18.06	18.06	18.09	19.1	0			
5	16QAM	1	0	18.16	18.12	18.12					
5	16QAM	1	24	18.08	18.04	18.03					
5	16QAM	12	0	18.03	18.04	17.98	19.1	0			
5	16QAM	12	7	18.05	18.01	18.06					
5	16QAM	12	13	18.07	18.11	18.03					
5	16QAM	25	0	18.08	18.04	17.99	19.1	0			
5	64QAM	1	0	18.15	18.13	18.09					
5	64QAM	1	12	18.13	18.14	18.11					
5	64QAM	1	24	18.11	18.11	18.10	19.1	0			
5	64QAM	12	0	18.08	18.04	18.08					
5	64QAM	12	7	18.06	18.11	18.03					
5	64QAM	12	13	18.01	18.05	17.95	19.1	0			
5	64QAM	25	0	18.04	17.99	17.96					
5	256QAM	1	0	18.26	18.26	18.18					
5	256QAM	1	12	18.15	18.21	18.10	18	1.1			
5	256QAM	1	24	18.24	18.27	18.18					
5	256QAM	12	0	18.20	18.26	18.17					
5	256QAM	12	7	18.10	18.10	18.10	18	1.1			
5	256QAM	12	13	18.08	18.15	18.10					
5	256QAM	25	0	18.08	18.17	18.09					

Band 66 Ant0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR3 (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	19.55	19.56	19.62	20.5	0			
20	QPSK	1	48	19.51	19.48	19.43					
20	QPSK	1	96	19.50	19.51	19.49					
20	QPSK	50	0	19.39	19.51	19.42	20.5	0			
20	QPSK	50	24	19.35	19.47	19.33					
20	QPSK	50	50	19.30	19.38	19.30					
20	QPSK	100	0	19.37	19.48	19.38	20.5	0			
20	16QAM	1	0	19.45	19.46	19.46					
20	16QAM	1	48	19.42	19.44	19.33					
20	16QAM	1	96	19.45	19.38	19.45	20.5	0			
20	16QAM	50	0	19.34	19.44	19.38					
20	16QAM	50	24	19.30	19.39	19.31					
20	16QAM	50	50	19.22	19.33	19.18	20.5	0			
20	16QAM	100	0	19.24	19.32	19.34					
20	256QAM	1	0	19.41	19.40	19.40	20	0.5			
20	256QAM	1	48	19.40	19.39	19.39					
20	256QAM	1	96	19.46	19.47	19.40					
20	256QAM	50	0	19.25	19.35	19.25	20	0.5			
20	256QAM	50	24	19.27	19.35	19.25					
20	256QAM	50	50	19.27	19.35	19.25					
20	256QAM	100	0	19.25	19.28	19.20					
Channel											
Frequency (MHz)											
15	QPSK	1	0	19.52	19.49	19.42	20.5	0			
15	QPSK	1	37	19.41	19.45	19.32					
15	QPSK	1	74	19.41	19.43	19.37					
15	QPSK	36	0	19.33	19.47	19.35	20.5	0			
15	QPSK	36	18	19.35	19.45	19.35					
15	QPSK	36	36	19.17	19.34	19.24					
15	QPSK	75	0	19.35	19.32	19.26	20.5	0			
15	16QAM	1	0	19.45	19.38	19.27					
15	16QAM	1	37	19.38	19.32	19.29					
15	16QAM	1	74	19.40	19.31	19.35	20.5	0			
15	16QAM	36	0	19.25	19.38	19.28					
15	16QAM	36	20	19.25	19.31	19.28					
15	16QAM	36	36	19.23	19.40	19.23	20.5	0			
15	16QAM	75	0	19.23	19.40	19.23					
15	64QAM	1	0	19.41	19.45	19.33	20.5	0			
15	64QAM	1	37	19.40	19.37	19.31					
15	64QAM	1	74	19.40	19.31	19.35					
15	64QAM	36	0	19.20	19.38	19.24	20.5	0			
15	64QAM	36	20	19.25	19.35	19.25					
15	64QAM	36	36	19.15	19.30	19.12					
15	64QAM	75	0	19.16	19.31	19.23	20	0.5			
15	256QAM	1	0	19.36	19.35	19.36					
15	256QAM	1	37	19.29	19.28	19.28					
15	256QAM	1	74	19.42	19.44	19.31	20	0.5			
15	256QAM	36	0	19.25	19.34	19.25					
15	256QAM	36	20	19.15	19.31	19.18					
15	256QAM	36	36	19.20	19.24	19.10	20	0.5			
15	256QAM	75	0	19.12	19.33	19.25					
Channel											
Frequency (MHz)											
10	QPSK	1	0	19.44	19.44	19.43	20.5	0			
10	QPSK	1	25	19.42	19.40	19.34					
10	QPSK	1	49	19.46	19.45	19.47					
10	QPSK	25	0	19.29	19.39	19.29	20.5	0			
10	QPSK	25	12	19.29	19.38	19.25					
10	QPSK	25	25	19.23	19.35	19.20					
10	QPSK	50	0	19.32	19.32	19.26	20.5	0			
10	16QAM	1	0	19.39	19.35	19.33					
10	16QAM	1	25	19.29	19.35	19.23					
10	16QAM	1	49	19.37	19.34	19.34	20.5	0			
10	16QAM	25	0	19.32	19.40	19.32					
10	16QAM	25	12	19.24	19.38	19.18					
10	16QAM	25	25	19.18	19.22	19.13	20.5	0			
10	16QAM	50	0	19.25	19.38	19.20					
10	64QAM	1	0	19.41	19.47	19.31	20.5	0			
10	64QAM	1	25	19.							



Band 38 Ant0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel											
Frequency (MHz)											
20	QPSK	1	0	19.86	20.05	19.86	20.05	21	0		
20	QPSK	1	48	19.85	19.91	19.77	19.83				
20	QPSK	50	0	19.87	19.94	19.78	19.85	21	0		
20	QPSK	50	24	19.80	19.85	19.70	19.75				
20	QPSK	50	24	19.85	19.75	19.65	19.75	21	0		
20	QPSK	100	0	19.76	19.81	19.76	19.76				
20	HQAM	1	48	19.76	19.77	19.73	19.73	21	0		
20	HQAM	1	96	19.82	19.71	19.58	19.58				
20	HQAM	50	0	19.82	19.87	19.84	19.84	20	1		
20	HQAM	50	24	19.86	19.79	19.70	19.70				
20	HQAM	50	50	19.73	19.52	19.65	19.65	20	1		
20	HQAM	50	50	19.73	19.52	19.65	19.65				
20	HQAM	100	0	17.74	17.52	17.73	17.73	19	2		
20	HQAM	100	0	17.71	17.62	17.72	17.72				
20	25QAM	1	0	15.92	15.93	15.91	15.91	17	4		
20	25QAM	1	48	15.88	15.98	15.76	15.76				
20	25QAM	1	96	15.87	15.91	15.76	15.76	17	4		
20	25QAM	1	96	15.87	15.92	15.77	15.77				
20	25QAM	50	0	15.78	15.87	15.75	15.75	17	4		
20	25QAM	50	24	15.78	15.78	15.71	15.71				
20	25QAM	50	50	15.75	15.75	15.71	15.71	17	4		
20	25QAM	50	50	15.75	15.75	15.71	15.71				
Channel											
Frequency (MHz)											
15	QPSK	1	0	19.73	19.73	19.73	19.73	21	0		
15	QPSK	1	37	19.78	19.87	19.65	19.65				
15	QPSK	1	74	19.81	19.91	19.74	19.74	21	0		
15	QPSK	1	74	19.82	19.93	19.75	19.75				
15	QPSK	36	0	19.82	19.83	19.78	19.78	21	0		
15	QPSK	36	20	19.67	19.81	19.58	19.58				
15	QPSK	36	36	19.67	19.77	19.67	19.67	21	0		
15	QPSK	36	36	19.67	19.77	19.67	19.67				
15	HQAM	1	0	19.58	19.71	19.48	19.48	21	0		
15	HQAM	1	37	19.56	19.63	19.63	19.63				
15	HQAM	1	74	19.52	19.60	19.60	19.60	20	1		
15	HQAM	1	74	19.52	19.60	19.60	19.60				
15	HQAM	36	0	19.85	19.79	19.82	19.82	20	1		
15	HQAM	36	20	19.87	19.80	19.76	19.76				
15	HQAM	36	36	19.81	19.87	19.76	19.76	20	1		
15	HQAM	36	36	19.81	19.87	19.76	19.76				
15	HQAM	75	0	19.70	19.74	19.80	19.80	19	2		
15	HQAM	75	0	19.75	19.74	19.80	19.80				
15	HQAM	1	37	19.86	19.84	19.82	19.82	20	1		
15	HQAM	1	37	19.86	19.84	19.82	19.82				
15	HQAM	36	0	17.75	17.64	17.72	17.72	19	2		
15	HQAM	36	0	17.72	17.62	17.71	17.71				
15	HQAM	36	20	17.62	17.75	17.65	17.65	19	2		
15	HQAM	36	20	17.62	17.75	17.65	17.65				
15	HQAM	75	0	17.66	17.75	17.66	17.66	17	4		
15	HQAM	75	0	17.66	17.75	17.66	17.66				
15	25QAM	1	0	15.79	15.88	15.82	15.82	17	4		
15	25QAM	1	37	15.80	15.85	15.85	15.85				
15	25QAM	1	74	15.84	15.85	15.86	15.86	17	4		
15	25QAM	1	74	15.84	15.85	15.86	15.86				
15	25QAM	36	0	15.79	15.77	15.87	15.87	17	4		
15	25QAM	36	20	15.72	15.84	15.73	15.73				
15	25QAM	36	36	15.84	15.86	15.85	15.85	17	4		
15	25QAM	36	36	15.84	15.86	15.85	15.85				
Channel											
Frequency (MHz)											
10	QPSK	1	0	19.81	19.81	19.81	19.81	21	0		
10	QPSK	1	25	19.82	19.87	19.68	19.68				
10	QPSK	1	48	19.81	19.81	19.78	19.78	21	0		
10	QPSK	1	48	19.81	19.81	19.78	19.78				
10	QPSK	25	0	19.86	19.86	19.81	19.81	21	0		
10	QPSK	25	0	19.86	19.86	19.81	19.81				
10	QPSK	25	12	19.80	19.76	19.85	19.85	21	0		
10	QPSK	25	12	19.80	19.76	19.85	19.85				
10	HQAM	1	0	19.80	19.68	19.62	19.62	21	0		
10	HQAM	1	25	19.80	19.67	19.65	19.65				
10	HQAM	1	48	19.84	19.70	19.60	19.60	20	1		
10	HQAM	1	48	19.84	19.70	19.60	19.60				
10	HQAM	25	0	19.80	19.75	19.85	19.85	20	1		
10	HQAM	25	0	19.80	19.75	19.85	19.85				
10	HQAM	25	12	19.82	19.78	19.87	19.87	20	1		
10	HQAM	25	12	19.82	19.78	19.87	19.87				
10	HQAM	50	0	19.73	19.75	19.85	19.85	20	1		
10	HQAM	50	0	19.73	19.75	19.85	19.85				
10	HQAM	1	25	19.85	19.60	19.50	19.50	19	2		
10	HQAM	1	25	19.85	19.60	19.50	19.50				
10	HQAM	25	0	17.72	17.60	17.78	17.78	19	2		
10	HQAM	25	12	17.88	17.75	17.66	17.66				
10	HQAM	25	25	17.59	17.75	17.60	17.60	17	4		
10	HQAM	25	0	17.64	17.74	17.66	17.66				
10	25QAM	1	0	15.79	15.86	15.81	15.81	17	4		
10	25QAM	1	25	15.75	15.80	15.73	15.73				
10	25QAM	1	48	15.80	15.87	15.68	15.68	17	4		
10	25QAM	1	48	15.80	15.87	15.68	15.68				
10	25QAM	25	0	15.70	15.77	15.69	15.69	17	4		
10	25QAM	25	12	15.75	15.75	15.66	15.66				
10	25QAM	25	25	15.59	15.74	15.65	15.65	17	4		
10	25QAM	25	25	15.59	15.74	15.65	15.65				
10	25QAM	50	0	15.68	15.70	15.67	15.67	17	4		
10	25QAM	50	0	15.68	15.70	15.67	15.67				
Channel											
Frequency (MHz)											
5	QPSK	1	0	19.82	20.01	19.80	19.80	21	0		
5	QPSK	1	12	19.78	19.81	19.65	19.65				
5	QPSK	1	24	19.73	19.86	19.70	19.70	21	0		
5	QPSK	12	0	19.81	19.84	19.71	19.71				
5	QPSK	12	7	19.73	19.75	19.68	19.68	21	0		
5	QPSK	12	13	19.76	19.80	19.72	19.72				
5	QPSK	25	0	19.86	19.78	19.67	19.67	21	0		
5	QPSK	25	0	19.86	19.78	19.67	19.67				
5	HQAM	1	0	19.68	19.64	19.63	19.63	21	0		
5	HQAM	1	12	19.81	19.66	19.62	19.62				
5	HQAM	1	24	19.85	19.61	19.54	19.54	20	1		
5	HQAM	12	7	19.83	19.83	19.75	19.75				
5	HQAM	12	0	19.83	19.82	19.86	19.86	20	1		
5	HQAM	12	7	19.86	19.73	19.76	19.76				
5	HQAM	12	13	19.83	19.83	19.75	19.75	20	1		
5	HQAM	12	13	19.83	19.83	19.75	19.75				
5	HQAM	25	0	19.74	19.71	19.85	19.85	20	1		
5	HQAM	25	0	19.74	19.71	19.85	19.85				
5	HQAM	12	7	17.65	17.65	17.66	17.66	19	2		
5	HQAM	12	7	17.65	17.65	17.66	17.66				
5	HQAM	12	13	17.66	17.60	17.66	17.66	17	4		
5	HQAM	12	13	17.66	17.60	17.66	17.66				
5	25QAM	1	0	15.79	15.86	15.74	15.74	17	4		
5	25QAM	1	24	15.75	15.85	15.72	15.72				
5	25QAM	1	48	15.80	15.87	15.67	15.67	17	4		
5	25QAM	1	48	15.80	15.87	15.67	15.67				
5	25QAM	12	7	15.70	15.75	15.67	15.67	17	4		
5	25QAM	12	7	15.70	15.75	15.67	15.67				
5	25QAM	12	13	15.61	15.73	15.62	15.62	17	4		
5	25QAM	12	13	15.61	15.73	15.62	15.62				



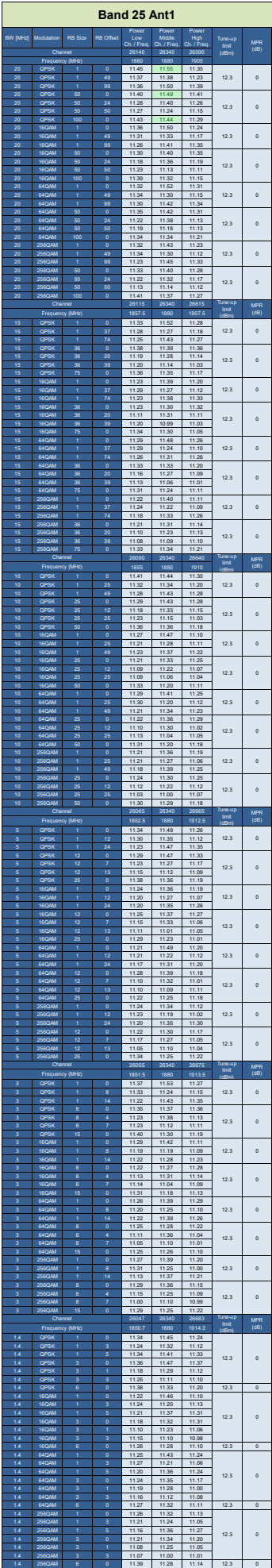
		GSM 850 Airt					
CDMA850		Base Average Power (dBm)			Frame Average Power (dBm)		
Tx Channel		188	190	201	198	199	201
Frequency (MHz)		824.2	824.4	844.8	824.2	824.4	844.8
GSM 1 Tx ch		23.48	23.42	23.53	23.49	23.42	23.53
GPRS 1 Tx ch		23.32	23.53	23.38	23.60	23.53	23.38
GPRS 2 Tx ch		26.03	26.14	26.03	26.00	26.14	26.03
GPRS 3 Tx ch		24.12	24.22	24.07	24.00	23.96	23.93
GPRS 4 Tx ch		22.79	22.89	22.71	23.60	23.79	23.71
EDGE 1 Tx ch		23.85	23.71	23.80	23.50	23.61	23.69
EDGE 2 Tx ch		24.12	24.22	24.18	25.00	18.12	18.18
EDGE 3 Tx ch		23.68	23.11	22.88	23.39	18.78	18.24
EDGE 4 Tx ch		23.92	21.04	20.97	21.90	17.92	18.04
						17.97	18.50
		GSM 1900 Airt					
CDMA1900		Base Average Power (dBm)			Frame Average Power (dBm)		
Tx Channel		1875	1880	1893	1875	1880	1893
Frequency (MHz)		1852.5	1855	1858.8	1852.5	1855	1858.8
GSM 1 Tx ch		20.05	20.04	20.16	21.80	11.05	11.04
GPRS 1 Tx ch		20.11	20.11	20.16	21.92	11.11	11.11
GPRS 2 Tx ch		18.00	18.15	17.85	19.80	12.00	12.05
GPRS 3 Tx ch		18.47	18.51	18.27	17.80	12.21	12.25
GPRS 4 Tx ch		14.10	14.14	14.14	15.80	11.10	11.14
EDGE 1 Tx ch		13.80	13.23	13.57	15.80	8.80	8.87
EDGE 2 Tx ch		13.80	13.85	13.85	15.50	7.85	7.85
EDGE 3 Tx ch		12.57	12.04	12.58	13.80	8.31	8.28
EDGE 4 Tx ch		10.45	10.57	10.21	11.80	7.45	7.21
		WCDMA 8 Airt			WCDMA 19 Airt		
Base		WCDMA 8			WCDMA 19		
Tx Channel		8862	8865	8868	1912	1913	1915
Frequency (MHz)		1822.4	1825	1827.8	1912.4	1912.6	1912.8
SPPF Run#1		12.43	12.53	12.52	13.70	9.72	9.73
SPPF Run#2		12.27	12.03	12.53	13.70	10.83	10.80
SPPF Run#3		11.42	11.50	11.52	12.70	10.07	10.08
SPPF Run#4		11.41	11.48	11.63	12.70	9.68	9.69
SPPF Run#5		10.89	11.18	11.31	12.20	9.30	9.35
SPPF Run#6		11.76	11.55	11.02	13.20	9.35	9.45
SPPF Run#7		11.81	11.86	11.48	12.70	10.32	10.04
SPPF Run#8		11.93	11.56	11.90	12.70	10.76	9.87
SPPF Run#9		11.23	11.38	11.40	12.20	9.55	9.75
SPPF Run#10		12.04	11.23	11.53	12.20	9.44	9.69
SPPF Run#11		11.78	11.07	11.56	12.70	10.25	9.89
SPPF Run#12		9.88	9.94	9.44	10.70	8.08	7.75
SPPF Run#13		10.96	10.73	10.86	11.70	8.93	8.88
SPPF Run#14		9.49	9.58	9.90	10.70	7.85	8.01
SPPF Run#15		11.78	11.88	11.12	12.70	10.10	9.90
		WCDMA 5 Airt			WCDMA 5 Airt		
Base		WCDMA 5			WCDMA 5		
Tx Channel		4102	4102	4102	4102	4102	4102
Frequency (MHz)		4367	4407	4468	4367	4407	4468
SPPF Run#1		12.43	12.53	12.52	13.70	9.72	9.73
SPPF Run#2		12.27	12.03	12.53	13.70	10.83	10.80
SPPF Run#3		11.42	11.50	11.52	12.70	10.07	10.08
SPPF Run#4		11.41	11.48	11.63	12.70	9.68	9.69
SPPF Run#5		10.89	11.18	11.31	12.20	9.30	9.35
SPPF Run#6		11.76	11.55	11.02	13.20	9.35	9.45
SPPF Run#7		11.81	11.86	11.48	12.70	10.32	10.04
SPPF Run#8		11.93	11.56	11.90	12.70	10.76	9.87
SPPF Run#9		11.23	11.38	11.40	12.20	9.55	9.75
SPPF Run#10		12.04	11.23	11.53	12.20	9.44	9.69
SPPF Run#11		11.78	11.07	11.56	12.70	10.25	9.89
SPPF Run#12		9.88	9.94	9.44	10.70	8.08	7.75
SPPF Run#13		10.96	10.73	10.86	11.70	8.93	8.88
SPPF Run#14		9.49	9.58	9.90	10.70	7.85	8.01
SPPF Run#15		11.78	11.88	11.12	12.70	10.10	9.90



Band 2 Ant1									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (dBm)	MPR (dB)
Channel									
1800 - 1860									
20	QPSK	1	0	11.36	11.48	11.23		12.3	0
20	QPSK	1	49	11.36	11.47	11.33			
20	QPSK	1	99	11.32	11.43	11.27			
20	QPSK	50	0	11.26	11.47	11.33		12.3	0
20	QPSK	50	24	11.28	11.28	11.28			
20	QPSK	50	50	11.25	11.16	11.11			
20	QPSK	100	0	11.31	11.38	11.18			
20	16QAM	1	0	11.34	11.45	11.45		12.3	0
20	16QAM	1	49	11.24	11.21	11.33			
20	16QAM	1	99	11.23	11.32	11.33			
20	16QAM	50	0	11.10	11.26	11.25			
20	16QAM	50	24	11.13	11.33	11.31		12.3	0
20	16QAM	50	50	11.10	11.40	11.36			
20	16QAM	100	0	11.31	11.24	11.15			
20	256QAM	1	0	11.23	11.34	11.14		12.3	0
20	256QAM	1	49	11.27	11.09	11.09			
20	256QAM	1	99	11.16	11.36	11.19			
20	256QAM	50	0	11.10	11.30	11.21			
20	256QAM	50	24	11.10	11.20	11.10			
20	256QAM	50	50	11.11	11.11	11.08		12.3	0
20	256QAM	100	0	11.20	11.23	11.23			
Channel									
1860 - 1880									
16	QPSK	1	0	11.25	11.34	11.19		12.3	0
16	QPSK	1	23	11.32	11.32	11.32			
16	QPSK	1	74	11.26	11.32	11.21			
16	QPSK	36	0	11.13	11.33	11.24		12.3	0
16	QPSK	36	1	11.18	11.18	11.13			
16	QPSK	36	39	11.22	11.09	11.09			
16	QPSK	73	0	11.26	11.27	11.09			
16	16QAM	1	1	11.22	11.36	11.06		12.3	0
16	16QAM	1	37	11.11	11.14	11.03			
16	16QAM	36	0	11.14	11.22	11.18			
16	16QAM	36	20	11.06	11.21	11.01		12.3	0
16	16QAM	36	39	11.02	11.16	11.08			
16	16QAM	75	0	11.29	11.07	11.03			
16	64QAM	1	0	11.22	11.34	11.17		12.3	0
16	64QAM	1	37	11.07	11.10	11.03			
16	64QAM	1	74	11.19	11.21	11.07			
16	64QAM	36	0	11.20	11.34	11.19			
16	64QAM	36	39	11.02	11.08	11.02		12.3	0
16	64QAM	36	39	10.96	11.03	10.97			
16	64QAM	75	0	11.18	11.17	11.02			
16	256QAM	1	37	11.21	11.10	10.94		12.3	0
16	256QAM	1	74	11.08	11.29	11.16			
16	256QAM	36	0	11.08	11.26	11.08			
16	256QAM	36	39	10.99	11.05	10.97			
16	256QAM	36	39	11.06	11.04	11.01		12.3	0
16	256QAM	75	0	11.15	11.25	11.11			
Channel									
1880 - 1890									
16	QPSK	1	0	11.25	11.30	11.05		12.3	0
16	QPSK	1	25	11.25	11.29	11.05			
16	QPSK	1	49	11.19	11.31	11.14			
16	QPSK	36	0	11.12	11.31	11.07		12.3	0
16	QPSK	36	1	11.13	11.18	11.11			
16	QPSK	25	12	11.13	11.18	11.11			
16	QPSK	25	25	11.13	11.01	11.05			
16	QPSK	73	0	11.27	11.11	11.01		12.3	0
16	16QAM	1	0	11.23	11.33	11.11			
16	16QAM	1	26	11.14	11.12	11.05		12.3	0
16	16QAM	36	0	11.08	11.26	11.09			
16	16QAM	25	0	11.06	11.27	11.14			
16	16QAM	25	12	11.08	11.23	10.99		12.3	0
16	16QAM	36	0	11.06	11.31	11.08			
16	16QAM	50	0	11.26	11.15	10.92			
16	64QAM	1	0	11.16	11.33	11.18		12.3	0
16	64QAM	1	13	11.05	11.26	11.01			
16	64QAM	1	49	11.14	11.20	11.21			
16	64QAM	25	0	11.21	11.26	11.24		12.3	0
16	64QAM	25	12	11.05	11.28	11.02			
16	64QAM	25	25	10.98	11.06	10.90			
16	64QAM	50	0	11.29	11.22	11.04			
16	256QAM	1	0	11.21	11.09	11.02		12.3	0
16	256QAM	1	26	11.23	11.16	10.98			
16	256QAM	1	49	11.11	11.34	11.12			
16	256QAM	15	0	11.18	11.22	11.09			
16	256QAM	25	12	11.04	11.10	11.06		12.3	0
16	256QAM	25	25	11.00	11.04	10.97			
16	256QAM	50	0	11.22	11.23	11.15			
Channel									
1890 - 1900									
5	QPSK	1	0	11.31	11.43	11.15		12.3	0
5	QPSK	1	12	11.26	11.27	11.14			
5	QPSK	1	24	11.27	11.40	11.17			
5	QPSK	12	0	11.21	11.36	11.11		12.3	0
5	QPSK	12	7	11.12	11.18	11.00			
5	QPSK	12	13	11.22	11.12	10.97			
5	QPSK	15	0	11.08	11.28	11.04			
5	16QAM	1	0	11.31	11.31	11.12		12.3	0
5	16QAM	1	12	11.18	11.13	11.10			
5	16QAM	1	109	11.21	11.21	11.01			
5	16QAM	12	0	11.09	11.26	11.16		12.3	0
5	16QAM	12	7	11.06	11.23	11.05			
5	16QAM	12	13	11.02	11.08	11.01			
5	16QAM	25	0	11.27	11.10	11.02			
5	64QAM	1	0	11.16	11.41	11.21		12.3	0
5	64QAM	1	18	11.07	11.09	11.02			
5	64QAM	1	24	11.15	11.22	11.22			
5	64QAM	12	0	11.15	11.26	11.24		12.3	0
5	64QAM	12	7	11.04	11.31	11.06			
5	64QAM	12	13	11.03	11.07	10.95			
5	64QAM	25	0	11.25	11.16	11.05			
5	256QAM	1	0	11.12	11.20	11.03		12.3	0
5	256QAM	1	12	11.19	11.12	10.94			
5	256QAM	1	24	11.08	11.25	11.10			
5	256QAM	12	0	11.14	11.22	11.09			
5	256QAM	12	7	11.00	11.07	10.99		12.3	0
5	256QAM	12	13	11.02	11.09	10.94			
5	256QAM	15	0	11.24	11.25	11.14			
Channel									
1900 - 1910									
3	QPSK	1	0	11.32	11.39	11.17		12.3	0
3	QPSK	1	8	11.24	11.21	11.05			
3	QPSK	1	14	11.26	11.30	11.14			
3	QPSK	8	4	11.08	11.26	11.03		12.3	0
3	QPSK	8	7	11.12	11.11	11.03			
3	QPSK	15	0	11.18	11.13	11.08			
3	16QAM	1	0	11.31	11.36	11.08		12.3	0
3	16QAM	1	8	11.12	11.17	11.08			
3	16QAM	1	11	11.12	11.22	11.21			
3	16QAM	8	4	11.06	11.33	11.19		12.3	0
3	16QAM	8	7	11.07	11.27	11.08			
3	16QAM	15	0	11.14	11.09	11.02			
3	64QAM	1	0	11.13	11.15	11.04		12.3	0
3	64QAM	1	14	11.12	11.19	11.18			
3	64QAM	8	0	11.01	11.24	10.98			
3	64QAM	8	7	10.96	11.00	10.93		12.3	0
3	64QAM	15	0	11.14	11.27	11.03			
3	256QAM	1	0	11.24	11.27	11.03			
3	256QAM	1	8	11.25	11.13	10.99		12.3	0
3	256QAM	10	0	11.27	11.17	11.01			
3	256QAM	8	4	11.20	11.17	11.15			
3	256QAM	8	4	11.00	11.09	11.05		12.3	0
3	256QAM	8	7	11.07	11.07	10.99			
3	256QAM	15	0	11.19	11.25	11.15			
Channel									
1910 - 1920									
1.4	QPSK	1	0	11.22	11.43	11.15		12.3	0
1.4	QPSK	1	3	11.25	11.26	11.10			
1.4	QPSK	1	5	11.20	11.31	11.16			
1.4	QPSK	3	0	11.23	11.45	11.31		12.3	0
1.4	QPSK	3	1	11.16	11.19	11.09			
1.4	QPSK	3	3	11.17	11.05	10.96			
1.4	QPSK	3	21	11.13	11.15	11.05		12.3	0
1.4	16QAM	1	0	11.25	11.42	11.45			
1.4	16QAM	1	3	11.10	11.17	11.00			
1.4	16QAM	1	5	11.15	11.25	11.24		12.3	0
1.4	16QAM	1	11	11.23	11.11	11.01			
1.4	16QAM	3	1	11.06	11.35	11.01			
1.4	16QAM	3	3	11.11	11.07	10.99		12.3	0
1.4	16QAM	3	11	11.20	11.14	11.01			
1.4	16QAM	3	11	11.10	11.13	10.98			
1.4	16QAM	3	11	11.12	11.10	11.07		12.3	0
1.4	16QAM	3	11	11.13	11.10	11.07			
1.4	16QAM	3	11	11.13	11.28	11.11			
1.4	16QAM	3	3	11.01	11.07	10.95		12.3	0
1.4	16QAM	3	3	11.01	11.07	10.95			
1.4	16QAM	3	3	11.01	11.07	10.95		47.3	0

Band 12 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Int. (dB)	MPR (dB)	
Channel									
Frequency [MHz]									
10	QPSK	1	0	16.77	16.83	16.74	18.2	0	
10	QPSK	1	25	16.82	16.88	16.80			
10	QPSK	1	49	16.82	16.79	16.72			
10	QPSK	25	0	16.76	16.83	16.87			
10	QPSK	25	12	16.85	16.89	16.85	18.2	0	
10	QPSK	25	25	16.71	16.79	16.72			
10	QPSK	50	0	16.70	16.85	16.78			
10	16QAM	1	0	16.72	16.75	16.83			
10	16QAM	1	25	16.59	16.62	16.53	18.2	0	
10	16QAM	1	49	16.53	16.57	16.55			
10	16QAM	25	0	16.72	16.71	16.82			
10	16QAM	25	12	16.52	16.57	16.82			
10	16QAM	25	25	16.58	16.58	16.84	18.2	0	
10	16QAM	50	0	16.59	16.58	16.57			
10	64QAM	1	0	16.71	16.76	16.71			
10	64QAM	1	25	16.58	16.61	16.55	18.2	0	
10	64QAM	1	49	16.58	16.55	16.82			
10	64QAM	25	0	16.66	16.68	16.61			
10	64QAM	25	12	16.44	16.52	16.58			
10	64QAM	25	25	16.65	16.62	16.80	18.2	0	
10	64QAM	50	0	16.63	16.75	16.66			
10	256QAM	1	25	16.48	16.61	16.54			
10	256QAM	1	49	16.58	16.64	16.67	18.2	0	
10	256QAM	25	0	16.62	16.65	16.57			
10	256QAM	25	12	16.48	16.59	16.57			
10	256QAM	25	25	16.64	16.64	16.65			
10	256QAM	50	0	16.64	16.65	16.59	18.2	0	
10	256QAM	50	0	16.65	16.65	16.59			
Channel									
Frequency [MHz]									
5	QPSK	1	0	16.84	16.76	16.81	18.2	0	
5	QPSK	1	12	16.93	16.86	16.81			
5	QPSK	1	24	16.56	16.61	16.62			
5	QPSK	12	0	16.70	16.73	16.84			
5	QPSK	12	7	16.47	16.49	16.82	18.2	0	
5	QPSK	12	13	16.60	16.59	16.58			
5	QPSK	25	0	16.72	16.72	16.84			
5	16QAM	1	0	16.59	16.62	16.52			
5	16QAM	1	12	16.50	16.49	16.39	18.2	0	
5	16QAM	1	24	16.50	16.51	16.59			
5	16QAM	12	0	16.61	16.58	16.52			
5	16QAM	12	7	16.44	16.50	16.58			
5	16QAM	25	0	16.45	16.59	16.54	18.2	0	
5	64QAM	1	0	16.58	16.59	16.58			
5	64QAM	1	24	16.50	16.51	16.48			
5	64QAM	1	24	16.44	16.52	16.58			
5	64QAM	12	0	16.56	16.62	16.58	18.2	0	
5	64QAM	12	13	16.49	16.59	16.58			
5	64QAM	12	13	16.55	16.52	16.51			
5	64QAM	25	0	16.60	16.64	16.55			
5	256QAM	1	0	16.62	16.61	16.55	18.2	0	
5	256QAM	1	12	16.43	16.50	16.44			
5	256QAM	1	24	16.48	16.61	16.54			
5	256QAM	12	0	16.52	16.59	16.46			
5	256QAM	12	7	16.38	16.49	16.54	18.2	0	
5	256QAM	12	13	16.59	16.54	16.57			
5	256QAM	25	0	16.60	16.63	16.47			
Channel									
Frequency [MHz]									
3	QPSK	1	0	16.68	16.72	16.82	18.2	0	
3	QPSK	1	8	16.55	16.57	16.58			
3	QPSK	1	16	16.57	16.65	16.64			
3	QPSK	8	0	16.71	16.71	16.71			
3	QPSK	8	4	16.47	16.61	16.67	18.2	0	
3	QPSK	8	4	16.63	16.62	16.67			
3	16QAM	1	0	16.67	16.68	16.66			
3	16QAM	1	8	16.60	16.65	16.57	18.2	0	
3	16QAM	8	0	16.52	16.60	16.50			
3	16QAM	8	0	16.63	16.59	16.54			
3	16QAM	8	4	16.43	16.55	16.50			
3	16QAM	15	0	16.51	16.59	16.44	18.2	0	
3	64QAM	1	0	16.62	16.62	16.67			
3	64QAM	1	8	16.53	16.49	16.46			
3	64QAM	1	14	16.54	16.52	16.52			
3	64QAM	8	0	16.59	16.65	16.57	18.2	0	
3	64QAM	8	4	16.36	16.53	16.48			
3	64QAM	8	7	16.52	16.58	16.49			
3	64QAM	15	0	16.60	16.70	16.55			
3	256QAM	1	0	16.65	16.70	16.51	18.2	0	
3	256QAM	1	8	16.37	16.50	16.40			
3	256QAM	1	14	16.49	16.54	16.51			
3	256QAM	8	0	16.56	16.67	16.44			
3	256QAM	8	4	16.38	16.52	16.47	18.2	0	
3	256QAM	8	7	16.59	16.57	16.59			
3	256QAM	15	0	16.58	16.60	16.53			
Channel									
Frequency [MHz]									
1.4	QPSK	1	0	16.70	16.73	16.82	18.2	0	
1.4	QPSK	1	3	16.49	16.59	16.50			
1.4	QPSK	1	5	16.58	16.67	16.67			
1.4	QPSK	3	0	16.72	16.76	16.64			
1.4	QPSK	3	1	16.43	16.56	16.56	18.2	0	
1.4	QPSK	3	3	16.64	16.63	16.67			
1.4	QPSK	6	0	16.67	16.71	16.61			
1.4	16QAM	1	0	16.70	16.69	16.54			
1.4	16QAM	1	3	16.53	16.55	16.50	18.2	0	
1.4	16QAM	1	6	16.48	16.55	16.58			
1.4	16QAM	3	0	16.66	16.68	16.54			
1.4	16QAM	3	1	16.46	16.53	16.57			
1.4	16QAM	3	3	16.48	16.53	16.57	18.2	0	
1.4	16QAM	6	0	16.47	16.61	16.46			
1.4	64QAM	1	0	16.68	16.63	16.67			
1.4	64QAM	1	3	16.48	16.54	16.50			
1.4	64QAM	1	5	16.45	16.61	16.52	18.2	0	
1.4	64QAM	3	0	16.58	16.62	16.50			
1.4	64QAM	3	1	16.35	16.54	16.48			
1.4	64QAM	3	3	16.52	16.59	16.54			
1.4	64QAM	6	0	16.58	16.61	16.52	18.2	0	
1.4	256QAM	1	0	16.62	16.73	16.55			
1.4	256QAM	1	3	16.37	16.50	16.46			
1.4	256QAM	1	5	16.47	16.61	16.54			
1.4	256QAM	3	0	16.60	16.67	16.54	18.2	0	
1.4	256QAM	3	1	16.33	16.47	16.52			
1.4	256QAM	3	3	16.59	16.56	16.61			
1.4	256QAM	6	0	16.56	16.64	16.54			

Band 13 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Int. (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	19.32	19.32		19.5	0	
10	QPSK	1	25	19.12	19.12				
10	QPSK	1	49	19.16	19.16				
10	QPSK	25	0	19.29	19.29				
10	QPSK	25	12	19.07	19.07		19.5	0	
10	QPSK	25	25	19.08	19.08				
10	QPSK	50	0	19.25	19.25				
10	16QAM	1	0	19.25	19.25				
10	16QAM	1	25	19.00	19.00		19.5	0	
10	16QAM	1	49	19.16	19.16				
10	16QAM	25	0	19.29	19.29				
10	16QAM	25	12	19.07	19.07				
10	16QAM	25	25	19.08	19.08		19.5	0	
10	16QAM	50	0	19.25	19.25				
10	16QAM	50	0	19.14	19.14				
10	16QAM	1	26	19.07	19.07				
10	64QAM	1	26	19.07	19.07		19.5	0	
10	64QAM	1	49	19.16	19.16				
10	64QAM	1	73	19.25	19.25				
10	64QAM	25	12	17.96	17.96				
10	64QAM	25	25	17.98	17.98		19.5	0	
10	64QAM	50	0	18.17	18.17				
10	256QAM	1	0	18.26	18.26				
10	256QAM	1	25	18.07	18.07				
10	256QAM	1	26	18.07	18.07		19.5	0	
10	256QAM	25	0	18.18	18.18				
10	256QAM	25	12	17.98	17.98				
10	256QAM	25	25	17.99	17.99				
10	256QAM	50	0	18.20	18.20		19.5	0	
10	256QAM	50	0	18.10	18.10				
10	256QAM	1	26	17.97	17.97				
10	256QAM	1	49	18.07	18.07				
10	64QAM	1	0	18.17	18.15	18.09	19.5	0	
10	64QAM	1	24	17.94	17.95	17.93			
10	64QAM	1	24	17.99	17.98	17.98			
10	64QAM	12	0	18.09	18.11	18.07			
10	64QAM	12	0	17.96	17.93	17.98	19.5	0	
10	64QAM	12	19	17.93	17.96	17.92			
10	64QAM	25	0	18.11	18.03	18.06			
10	64QAM	25	0	18.11	18.15	18.21			
10	64QAM	1	12	17.97	17.95	17.91	19.5	0	
10	64QAM	1	24	17.94	17.95	17.98			
10	64QAM	12	7	18.16	18.19	18.23			
10	64QAM	12	7	17.88	17.89	17.93			
10	64QAM	12	19	17.84	17.85	17.88	19.5	0	
10	64QAM	24	0	18.13	18.13	18.04			
10	256QAM	1	0	18.19	18.15	18.22			
10	256QAM	1	12	18.00	18.03	18.06			
10	256QAM	12	0	18.05	18.05	18.01	19.5	0	
10	256QAM	12	19	18.06	18.05	18.07			
10	256QAM	12	7	17.82	17.84	17.89			
10	256QAM	25	0	17.96	17.96	17.96			
10	256QAM	25	0	18.12	18.07	18.11	19.5	0	
10	256QAM	25	0	18.12	18.07	18.11			
10	256QAM	25	0	18.12	18.07	18.11			
10	256QAM	25	0	18.12	18.07	18.11			



Band 26 for FCC Ant1											
RF Band	Modulation	RF BS	RF CH	Power (dBm)	Power (dBm) Ch/Freq	Power (dBm) Ch/Freq	Power (dBm) Ch/Freq	Transmit rate (Mbps)	MPE (dB)		
Channel											
15	QPSK	1	0	16.87	16.87	16.87	16.87				
15	QPSK	1	31	16.88	16.87	16.88	16.88	16.2	0		
15	QPSK	1	62	16.89	16.88	16.89	16.89				
15	QPSK	36	0	16.87	16.88	16.86	16.86				
15	QPSK	36	31	16.38	16.32	16.32	16.32	16.2	0		
15	QPSK	36	62	16.37	16.36	16.34	16.34				
15	QPSK	75	0	16.50	16.50	16.47	16.47				
15	QPSK	75	31	16.52	16.74	16.59	16.59				
15	QPSK	75	62	16.48	16.74	16.54	16.54	16.2	0		
15	QPSK	1	74	16.88	16.55	16.58	16.58				
15	QPSK	36	0	16.49	16.52	16.48	16.48				
15	QPSK	36	31	16.37	16.47	16.33	16.33				
15	QPSK	36	62	16.28	16.48	16.24	16.24	16.2	0		
15	QPSK	75	0	16.41	16.54	16.41	16.41				
15	QPSK	75	31	16.42	16.74	16.48	16.48				
15	QPSK	75	62	16.45	16.64	16.46	16.46	16.2	0		
15	QPSK	1	37	16.45	16.64	16.46	16.46				
15	QPSK	1	74	16.39	16.54	16.44	16.44				
15	QPSK	36	37	16.35	16.44	16.35	16.35				
15	QPSK	36	74	16.34	16.49	16.28	16.28	16.2	0		
15	QPSK	75	37	16.31	16.44	16.30	16.30				
15	QPSK	75	74	16.40	16.40	16.44	16.40				
15	25QPSK	1	0	16.48	16.57	16.39	16.39	16.2	0		
15	25QPSK	1	31	16.48	16.57	16.39	16.39				
15	25QPSK	1	74	16.48	16.57	16.39	16.39				
15	25QPSK	36	0	16.47	16.44	16.43	16.43				
15	25QPSK	36	31	16.24	16.44	16.33	16.33				
15	25QPSK	36	62	16.44	16.44	16.48	16.48	16.2	0		
15	25QPSK	75	0	16.41	16.47	16.40	16.40				
Channel											
15	25QPSK	75	31	16.41	16.47	16.40	16.40	16.2	0		
Frequency (MHz)											
10	QPSK	1	0	16.80	16.80	16.80	16.80				
10	QPSK	1	25	16.48	16.50	16.40	16.40	16.2	0		
10	QPSK	1	50	16.48	16.50	16.40	16.40				
10	QPSK	25	0	16.54	16.45	16.53	16.53				
10	QPSK	25	12	16.25	16.41	16.22	16.22	16.2	0		
10	QPSK	25	37	16.25	16.41	16.22	16.22				
10	QPSK	50	0	16.38	16.51	16.43	16.43				
10	QPSK	50	12	16.59	16.60	16.52	16.52				
10	QPSK	50	37	16.48	16.51	16.44	16.44	16.2	0		
10	QPSK	1	49	16.47	16.43	16.34	16.34				
10	QPSK	25	0	16.40	16.47	16.33	16.33				
10	QPSK	25	12	16.45	16.52	16.22	16.22				
10	QPSK	25	37	16.24	16.38	16.23	16.23	16.2	0		



Band 30 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	12.17			13.4	0	
10	QPSK	1	25	11.95					
10	QPSK	1	49	11.82					
10	QPSK	25	0	12.05			13.4	0	
10	QPSK	25	12	11.93					
10	QPSK	25	25	11.88					
10	QPSK	50	0	12.01			13.4	0	
10	16QAM	1	0	12.07					
10	16QAM	1	25	11.84					
10	16QAM	1	49	11.89			13.4	0	
10	16QAM	25	0	11.98					
10	16QAM	25	12	11.82					
10	16QAM	25	25	11.85			13.4	0	
10	16QAM	50	0	11.93					
10	64QAM	1	0	12.14					
10	64QAM	1	25	11.96			13.4	0	
10	64QAM	1	49	11.87					
10	64QAM	25	0	11.93					
10	64QAM	25	12	11.81			13.4	0	
10	64QAM	25	25	11.85					
10	256QAM	50	0	11.91					
10	256QAM	1	0	12.08			13.4	0	
10	256QAM	1	25	11.86					
10	256QAM	1	49	11.79					
10	256QAM	25	0	12.03			13.4	0	
10	256QAM	25	12	11.84					
10	256QAM	25	25	11.77					
10	256QAM	50	0	11.92					
Channel									
Frequency (MHz)									
5	QPSK	1	0	12.11	12.11	12.05	13.4	0	
5	QPSK	1	12	11.90	11.84	11.87			
5	QPSK	1	24	11.82	11.87	11.84			
5	QPSK	12	0	11.97	11.90	11.90	13.4	0	
5	QPSK	12	7	11.87	11.82	11.88			
5	QPSK	12	13	11.76	11.81	11.85			
5	QPSK	25	0	11.85	11.86	11.89	13.4	0	
5	16QAM	1	0	11.93	11.86	11.86			
5	16QAM	1	12	11.77	11.81	11.81			
5	16QAM	1	24	11.78	11.84	11.83	13.4	0	
5	16QAM	12	0	11.86	11.83	11.89			
5	16QAM	12	7	11.69	11.78	11.89			
5	16QAM	12	13	11.59	11.73	11.73	13.4	0	
5	64QAM	1	0	11.87	11.87	11.91			
5	64QAM	1	0	12.11	12.06	12.08			
5	64QAM	1	12	11.70	11.73	11.73	13.4	0	
5	64QAM	12	7	11.70	11.73	11.73			
5	64QAM	12	13	11.72	11.76	11.77			
5	256QAM	1	0	11.97	11.85	11.85	13.4	0	
5	256QAM	1	12	11.76	11.76	11.72			
5	256QAM	1	24	11.74	11.66	11.79			
5	256QAM	12	0	11.98	11.86	11.85	13.4	0	
5	256QAM	12	7	11.72	11.76	11.77			
5	256QAM	12	13	11.70	11.70	11.79			
5	256QAM	25	0	11.82	11.83	11.82			

Band 66 Ant1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	10.97	11.03	10.96	12.3	0			
20	QPSK	1	49	10.82	10.86	10.89					
20	QPSK	1	99	10.85	10.84	10.90					
20	QPSK	50	0	10.92	10.99	10.89	12.3	0			
20	QPSK	50	24	10.85	10.85	10.91					
20	QPSK	50	50	10.82	10.80	10.72					
20	16QAM	1	0	10.89	10.95	10.87	12.3	0			
20	16QAM	1	49	10.76	10.84	10.68					
20	16QAM	1	99	10.81	10.75	10.83					
20	16QAM	50	0	10.86	10.91	10.78	12.3	0			
20	16QAM	50	24	10.78	10.79	10.72					
20	16QAM	50	50	10.73	10.75	10.69					
20	64QAM	1	0	10.92	10.90	10.90	12.3	0			
20	64QAM	1	49	10.76	10.76	10.87					
20	64QAM	1	99	10.73	10.74	10.87					
20	64QAM	50	0	10.89	10.93	10.82	12.3	0			
20	64QAM	50	24	10.79	10.79	10.72					
20	64QAM	50	50	10.74	10.74	10.67					
20	256QAM	1	0	10.72	10.75	10.77	12.3	0			
20	256QAM	1	49	10.82	10.89	10.80					
20	256QAM	1	99	10.75	10.74	10.73					
20	256QAM	50	0	10.82	10.86	10.78	12.3	0			
20	256QAM	50	24	10.78	10.72	10.78					
20	256QAM	50	50	10.71	10.71	10.65					
Channel											
Frequency (MHz)											
15	QPSK	1	0	10.89	10.92	10.84	12.3	0			
15	QPSK	1	37	10.71	10.81	10.87					
15	QPSK	1	74	10.73	10.81	10.84					
15	QPSK	36	0	10.84	10.89	10.77	12.3	0			
15	QPSK	36	18	10.74	10.80	10.88					
15	QPSK	36	36	10.77	10.78	10.87					
15	QPSK	75	0	10.72	10.80	10.89	12.3	0			
15	16QAM	1	0	10.83	10.83	10.87					
15	16QAM	1	37	10.64	10.81	10.69					
15	16QAM	1	74	10.67	10.86	10.71	12.3	0			
15	16QAM	36	0	10.82	10.88	10.72					
15	16QAM	36	20	10.71	10.69	10.59					
15	16QAM	36	37	10.73	10.73	10.64	12.3	0			
15	16QAM	75	0	10.67	10.72	10.60					
15	64QAM	1	0	10.80	10.85	10.78	12.3	0			
15	64QAM	1	37	10.73	10.73	10.63					
15	64QAM	1	74	10.65	10.69	10.75					
15	64QAM	36	0	10.76	10.83	10.72	12.3	0			
15	64QAM	36	20	10.63	10.66	10.54					
15	64QAM	36	36	10.65	10.70	10.64					
15	64QAM	75	0	10.60	10.61	10.73	12.3	0			
15	64QAM	75	0	10.81	10.86	10.71					
15	256QAM	1	37	10.68	10.72	10.67					
15	256QAM	1	74	10.74	10.84	10.70	12.3	0			
15	256QAM	1	111	10.73	10.86	10.71					
15	256QAM	36	20	10.68	10.68	10.65					
15	256QAM	36	36	10.64	10.67	10.53	12.3	0			
15	256QAM	75	0	10.75	10.71	10.65					
Channel											
Frequency (MHz)											
10	QPSK	1	0	10.83	10.83	10.84	12.3	0			
10	QPSK	1	25	10.77	10.80	10.78					
10	QPSK	1	49	10.78	10.74	10.80					
10	QPSK	25	0	10.80	10.86	10.81	12.3	0			
10	QPSK	25	12	10.76	10.78	10.73					
10	QPSK	25	25	10.80	10.72	10.82					
10	QPSK	50	0	10.73	10.76	10.77	12.3	0			
10	16QAM	1	0	10.81	10.83	10.87					
10	16QAM	1	25	10.63	10.73	10.63					
10	16QAM	1	49	10.73	10.69	10.77	12.3	0			
10	16QAM	25	0	10.83	10.84	10.68					
10	16QAM	25	12	10.73	10.73	10.61					
10	16QAM	25	25	10.85	10.60	10.81	12.3	0			
10	16QAM	50	0	10.71	10.73	10.69					
10	64QAM	1	0	10.79	10.77	10.80					
10	64QAM	1	25	10.71	10.69	10.75	12.3	0			
10	64QAM	1	49	10.65	10.70	10.73					
10	64QAM	25	0	10.81	10.90	10.74					



Band 38 Ant1												
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPE (dB)				
Channel												
37860 38000 38150												
Frequency (MHz)												
20	QPSK	1	0	15.42	15.54	15.46	16.8	0				
20	QPSK	1	49	15.45	15.38	15.21						
20	QPSK	1	99	15.45	15.37	15.37						
20	QPSK	50	0	15.42	15.47	15.34						
20	QPSK	50	24	15.24	15.43	15.16	15.8	1				
20	QPSK	50	49	15.35	15.38	15.08						
20	QPSK	100	0	15.35	15.40	15.34						
20	16QAM	1	0	15.48	15.43	15.39						
20	16QAM	1	49	15.37	15.37	15.32	16.8	0				
20	16QAM	1	99	15.38	15.38	15.15						
20	16QAM	50	0	15.26	15.40	15.23						
20	16QAM	50	24	15.17	15.38	15.06						
20	16QAM	100	0	15.18	15.38	15.30	16.8	0				
20	16QAM	100	1	0	15.29	15.29						
20	16QAM	1	0	15.32	15.41	15.41						
20	16QAM	1	49	15.36	15.32	15.12						
20	16QAM	50	0	15.41	15.32	15.34	16.8	0				
20	16QAM	50	24	15.17	15.46	15.13						
20	16QAM	50	50	15.14	15.37	15.16						
20	16QAM	100	0	15.29	15.26	15.31						
20	256QAM	1	0	15.29	15.48	15.44	16.8	0				
20	256QAM	1	49	15.32	15.37	15.15						
20	256QAM	1	99	15.39	15.27	15.19						
20	256QAM	50	0	15.29	15.47	15.30						
20	256QAM	50	24	15.21	15.38	15.05	16.8	0				
20	256QAM	50	50	15.19	15.33	15.13						
20	256QAM	100	0	15.13	15.33	15.33						
20	256QAM	100	1	0	15.26	15.32						
Channel												
37825 38000 38175												
Frequency (MHz)												
15	QPSK	1	0	15.33	15.42	15.33	16.8	0				
15	QPSK	1	37	15.32	15.25	15.13						
15	QPSK	1	74	15.26	15.23	15.17						
15	QPSK	36	0	15.44	15.40	15.26						
15	QPSK	36	20	15.18	15.45	15.12	15.8	1				
15	QPSK	36	36	15.18	15.45	15.12						
15	QPSK	75	0	15.25	15.43	15.20						
15	16QAM	1	0	15.40	15.30	15.20						
15	16QAM	1	37	15.31	15.27	15.16	16.8	0				
15	16QAM	1	74	15.33	15.25	15.15						
15	16QAM	36	0	15.23	15.37	15.11						
15	16QAM	36	39	15.13	15.31	15.01						
15	16QAM	75	0	15.26	15.21	15.20	16.8	0				
15	16QAM	75	0	15.32	15.25	15.25						
15	16QAM	1	37	15.39	15.28	15.14						
15	16QAM	1	74	15.42	15.17	15.11						
15	16QAM	36	0	15.32	15.25	15.25	16.8	0				
15	16QAM	36	20	15.09	15.35	15.11						
15	16QAM	36	39	15.08	15.35	15.07						
15	16QAM	75	0	15.15	15.15	15.27						
15	256QAM	1	0	15.35	15.43	15.34	16.8	0				
15	256QAM	1	37	15.31	15.30	15.13						
15	256QAM	1	74	15.29	15.24	15.09						
15	256QAM	1	99	15.36	15.34	15.23						
15	256QAM	36	0	15.28	15.28	15.01	16.8	0				
15	256QAM	36	39	15.09	15.24	15.06						
15	256QAM	75	0	15.21	15.20	15.16						
15	256QAM	75	0	15.26	15.25	15.25						
Channel												
37800 38000 38200												
Frequency (MHz)												
10	QPSK	1	0	15.47	15.47	15.44	16.8	0				
10	QPSK	1	25	15.39	15.28	15.13						
10	QPSK	1	49	15.40	15.28	15.13						
10	QPSK	25	0	15.45	15.45	15.35						
10	QPSK	25	12	15.11	15.37	15.02	15.8	1				
10	QPSK	25	25	15.21	15.32	15.18						
10	QPSK	50	0	15.35	15.35	15.28						
10	QPSK	50	0	15.41	15.38	15.32						
10	16QAM	1	0	15.41	15.38	15.32	16.8	0				
10	16QAM	1	25	15.30	15.17	15.06						
10	16QAM	1	49	15.27	15.30	15.16						
10	16QAM	25	0	15.21	15.37	15.30						
10	16QAM	25	12	15.06	15.40	15.01	16.8	0				
10	16QAM	25	25	15.01	15.19	15.02						
10	16QAM	50	0	15.25	15.14	15.28						
10	16QAM	50	0	15.31	15.20	15.22						
10	16QAM	25	0	15.13	15.30	15.04	16.8	0				
10	16QAM	25	12	15.08	15.40	15.01						
10	16QAM	25	25	15.05	15.35	15.05						
10	16QAM	50	0	15.25	15.16	15.28						
10	16QAM	1	0	15.42	15.29	15.41	16.8	0				
10	16QAM	1	25	15.31	15.38	15.30						
10	16QAM	1	49	15.27	15.38	15.32						
10	16QAM	25	0	15.22	15.37	15.30						
10	16QAM	25	12	15.06	15.31	15.01	16.8	0				
10	16QAM	25	25	15.01	15.19	15.02						
10	16QAM	50	0	15.25	15.15	15.28						
10	16QAM	50	0	15.31	15.20	15.22						
10	16QAM	25	0	15.13	15.30	15.04	16.8	0				
10	16QAM	25	12	15.08	15.40	15.01						
10	16QAM	25	25	15.05	15.35	15.05						
10	16QAM	50	0	15.25	15.16	15.28						
10	16QAM	1	0	15.42	15.29	15.41	16.8	0				
10	16QAM	1	25	15.31	15.38	15.30						
10	16QAM	1	49	15.27	15.38	15.32						
10	16QAM	25	0	15.22	15.37	15.30						
10	16QAM	25	12	15.06	15.31	15.01	16.8	0				
10	16QAM	25	25	15.01	15.19	15.02						
10	16QAM	50	0	15.25	15.15	15.28						
10	16QAM	50	0	15.31	15.20	15.22						
10	16QAM	25	0	15.13	15.30	15.04	16.8	0				
10	16QAM	25	12	15.08	15.40	15.01						
10	16QAM	25	25	15.05	15.35	15.05						
10	16QAM	50	0	15.25	15.16	15.28						
10	16QAM	1	0	15.42	15.29	15.41	16.8	0				
10	16QAM	1	25	15.31	15.38	15.30						
10	16QAM	1	49	15.27	15.38	15.32						
10	16QAM	25	0	15.22	15.37	15.30						
10	16QAM	25	12	15.06	15.31	15.01	16.8	0				
10	16QAM	25	25	15.01	15.19	15.02						
10	16QAM	50	0	15.25	15.15	15.28						
10	16QAM	50	0	15.31	15.20	15.22						
10	16QAM	25	0	15.13	15.30	15.04	16.8	0				
10	16QAM	25	12	15.08	15.40	15.01						
10	16QAM	25	25	15.05	15.35	15.05						
10	16QAM	50	0	15.25	15.16	15.28						
10	16QAM	1	0	15.42	15.29	15.41	16.8	0				
10	16QAM	1	25	15.31	15.38	15.30						
10	16QAM	1	49	15.27	15.38	15.32						
10	16QAM	25	0	15.22	15.37	15.30						
10	16QAM	25	12	15.06	15.31	15.01	16.8	0				
10	16QAM	25	25	15.01	15.19	15.02						
10	16QAM	50	0	15.25	15.15	15.28						
10	16QAM	50	0	15.31	15.20	15.22						
10	16QAM	25	0	15.13	15.30	15.04	16.8	0				
10	16QAM	25	12	15.08	15.40	15.01						
10	16QAM	25	25	15.05	15.35	15.05						
10	16QAM	50	0	15.25	15.16	15.28						
10	16QAM	1	0	15.42	15.29	15.41	16.8	0				
10	16QAM	1	25	15.31	15.38	15.30						
10	16QAM	1	49	15.27	15.38	15.32						
10	16QAM	25	0	15.22	15.37	15.30						
10	16QAM	25	12	15.06	15.31	15.01	16.8	0				
10	16QAM	25	25	15.01	15.19	15.02						
10	16QAM	50	0	15.25	15.15	15.28						
10	16QAM	50	0	15.31	15.20	15.22						
10	16QAM	25	0	15.13	15.30	15.04	16.8	0				
10	16QAM	25	12	15.08	15.40	15.01						
10	16QAM	25	25	15.05	15.35	15.05						
10	16QAM	50	0	15.25	15.16	15.28						
10	16QAM	1	0	15.42	15.29	15.41	16.8	0				
10	16QAM	1	25	15.31	15.38	15.30						
10	16QAM	1	49	15.27	15.38	15.32						
10	16QAM	25	0	15.22	15.37	15.30						
10	16QAM	25	12	15.06	15.31	15.01	16.8	0				
10	16QAM	25	25	15.01	15.19	15.02						
10	16QAM	50	0	15.25	15.15	15.28						
10	16QAM	50	0	15.31	15.20	15.22						
10	16QAM	25	0	15.13	15.30	15.04	16.8	0				
10	16QAM	25	12	15.08	15.40	15.01						
10	16QAM	25	25	15.05	15.35	15.05						
10	16QAM	50	0	15.25	15.16	15.28						
10	16QAM	1	0	15.42	15.29	15.41	16.8	0				
10	16QAM	1	25	15.31	15.38	15.30						
10	16QAM	1	49	15.27	15.38	15.32						
10	16QAM	25	0	15.22	15.37	15.30						
10	16QAM	25	12	15.06	15.31	15.01	16.8	0				
10	16QAM	25	25	15.01	15.19	15.02						
10	16QAM	50	0	15.25	15.15	15.28						
10	16QAM	50	0	15.31	15.20	15.22						
10	16QAM	25	0	15.13	15.30	15.04	16.8	0				
10	16QAM	25	12	15.08	15.40	15.01						
10	16QAM	25	25	15.05	15.35	15.05						
10	16QAM	50	0	15.25	15.16	15.28						
10	1											



Band 48_FCC Ant1													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPP (dB)				
Channel				56540	56630	56760	56840						
Frequency (MHz)				56540	56630	56760	56840						
20	QPSK	1	0	15.01	15.15	14.99	15.10	15.8	0				
20	QPSK	1	49	14.80	15.02	15.06	14.88						
20	QPSK	1	99	15.00	15.12	15.05	15.01						
20	QPSK	50	0	14.90	15.05	15.02	14.96						
20	QPSK	50	24	14.84	14.98	14.99	14.93	15.8	0				
20	QPSK	50	50	14.77	14.95	15.02	14.88						
20	QPSK	100	0	14.78	15.03	14.96	14.90						
20	16QAM	1	0	14.93	15.07	14.95	15.03						
20	16QAM	1	49	14.60	14.98	14.94	14.75	15.8	0				
20	16QAM	1	99	14.95	15.04	15.01	14.91						
20	16QAM	50	0	14.80	14.95	15.02	14.84						
20	16QAM	50	24	14.79	14.86	14.94	14.83						
20	16QAM	50	50	14.71	14.89	14.94	14.63	15.8	0				
20	16QAM	100	0	14.72	14.95	14.87	14.68						
20	64QAM	1	0	14.01	15.07	14.94	15.01						
20	64QAM	1	49	14.74	14.98	15.02	14.76						
20	64QAM	1	99	14.95	15.07	14.96	14.89	15.8	0				
20	64QAM	50	0	14.77	14.95	14.98	14.83						
20	64QAM	50	24	14.70	14.86	14.94	14.69						
20	64QAM	50	50	14.67	14.93	14.92	14.61						
20	64QAM	100	0	14.66	14.91	14.83	14.78	15.8	0				
20	256QAM	1	0	14.95	15.10	14.86	15.03						
20	256QAM	1	49	14.70	14.96	14.99	14.79						
20	256QAM	1	99	14.89	15.05	14.97	14.98						
20	256QAM	50	0	14.80	14.85	14.93	14.82	15.8	0				
20	256QAM	50	24	14.79	14.86	14.90	14.80						
20	256QAM	50	50	14.67	14.83	14.94	14.75						
20	256QAM	100	0	14.73	14.95	14.84	14.85						
Channel				56515	56620	56760	56865						
Frequency (MHz)				56515	56620	56760	56865						
15	QPSK	1	0	14.93	15.07	14.95	15.03	15.8	0				
15	QPSK	1	37	14.77	14.91	15.01	14.89						
15	QPSK	1	74	14.91	15.14	15.00	14.92						
15	QPSK	86	0	14.79	14.99	14.95	14.87						
15	QPSK	86	20	14.72	14.92	14.96	14.50	15.8	0				
15	QPSK	86	39	14.70	14.89	14.98	14.84						
15	QPSK	75	0	14.63	14.98	14.91	14.88						
15	16QAM	1	0	14.84	14.93	14.87	14.89	15.8	0				
15	16QAM	1	37	14.67	14.95	14.83	14.83						
15	16QAM	1	74	14.82	14.95	15.07	14.80						
15	16QAM	58	0	14.77	14.89	14.94	14.91						
15	16QAM	86	20	14.70	14.74	14.78	14.75	15.8	0				
15	16QAM	86	39	14.59	14.81	14.87	14.76						
15	16QAM	75	0	14.59	14.97	14.73	14.78						
15	64QAM	1	0	14.87	14.96	14.88	14.89						
15	64QAM	1	37	14.71	14.89	14.94	14.79	15.8	0				
15	64QAM	1	74	14.90	15.09	14.99	14.84						
15	64QAM	86	0	14.85	14.82	14.90	14.72						
15	64QAM	55	20	14.69	14.78	14.88	14.65						
15	64QAM	86	39	14.62	14.87	14.79	14.75	15.8	0				
15	256QAM	1	0	14.87	14.96	14.74	15.01						
15	256QAM	1	37	14.63	14.90	14.94	14.87						
15	256QAM	1	74	14.89	14.99	14.93	14.80						
15	256QAM	58	0	14.77	14.91	14.85	14.71	15.8	0				
15	256QAM	86	20	14.67	14.73	14.77	14.79						
15	256QAM	86	39	14.62	14.84	14.83	14.62						
15	256QAM	75	0	14.59	14.87	14.79	14.82						
Channel				56595	56710	56850	56955						
Frequency (MHz)				56595	56710	56850	56955						
10	QPSK	1	0	14.91	15.05	14.98	14.98	15.8	0				
10	QPSK	1	25	14.67	15.00	15.01	14.83						
10	QPSK	1	49	14.86	15.04	14.96	14.92						
10	QPSK	25	0	14.85	14.99	14.97	14.84						
10	QPSK	25	12	14.76	14.90	14.93	14.83	15.8	0				
10	QPSK	25	25	14.73	14.88	14.93	14.74						
10	QPSK	80	0	14.71	14.92	14.93	14.83						
10	16QAM	1	0	14.85	15.02	14.83	14.92						
10	16QAM	1	25	14.86	14.90	14.88	14.82	15.8	0				
10	16QAM	1	49	14.86	15.01	14.91	14.84						
10	16QAM	25	0	14.77	14.89	14.90	14.81						
10	16QAM	25	12	14.73	14.71	14.82	14.74						
10	16QAM	80	0	14.69	14.75	14.86	14.77	15.8	0				
10	16QAM	50	0	14.62	14.95	14.85	14.76						
10	64QAM	1	0	14.70	14.95	14.86	14.86						
10	64QAM	1	25	14.71	14.88	14.89	14.75						
10	64QAM	1	49	14.70	14.99	14.82	14.82	15.8	0				
10	64QAM	25	0	14.65	14.90	14.88	14.79						
10	64QAM	25	12	14.70	14.83	14.83	14.76						
10	64QAM	80	0	14.54	14.85	14.81	14.72						
10	256QAM	1	0	14.82	15.07	14.72	14.92	15.8	0				
10	256QAM	1	25	14.85	14.88	14.96	14.75						
10	256QAM	1	49	14.76	14.95	14.95	14.87						
10	256QAM	25	0	14.71	14.83	14.93	14.82						
10	256QAM	25	12	14.65	14.75	14.85	14.72	15.8	0				
10	256QAM	25	25	14.63	14.76	14.85	14.64						
10	256QAM	50	0	14.62	14.88	14.77	14.77						
Channel				56595	56710	56850	56955						
Frequency (MHz)				56595	56710	56850	56955						
5	QPSK	1	0	14.90	15.12	14.93	14.97	15.8	0				
5	QPSK	1	12	14.71	14.94	15.00	14.85						
5	QPSK	1	24	14.95	15.13	15.01	14.92						
5	QPSK	12	0	14.83	14.92	14.96	14.84						
5	QPSK	12	7	14.71	14.90	14.91	14.81	15.8	0				
5	QPSK	12	19	14.63	14.92	14.96	14.63						
5	QPSK	25	0	14.72	14.92	14.92	14.83						
5	16QAM	1	0	14.90	14.94	14.92	14.84						
5	16QAM	1	12	14.58	14.90	14.89	14.76	15.8	0				
5	16QAM	1	24	14.85	14.91	14.87	14.82						
5	16QAM	12	0	14.78	14.86	14.99	14.83						
5	16QAM	12	7	14.67	14.71	14.82	14.75						
5	16QAM	12	19	14.68	14.80	14.89	14.69	15.8	0				
5	64QAM	25	0	14.60	14.92	14.83	14.81						
5	64QAM	1	0	14.82	15.01	14.87	14.94						
5	64QAM	1	12	14.81	14.91	14.91	14.69						
5	64QAM	1	24	14.87	14.98	14.80	14.88	15.8	0				
5	64QAM	12	0	14.75	14.82	14.89	14.79						
5	64QAM	12	7	14.65	14.73	14.82	14.75						
5	64QAM	12	19	14.63	14.91	14.86	14.77						
5	256QAM	1	0	14.89	15.08	14.75	14.92	15.8	0				
5	256QAM	1	12	14.99	14.91	14.89	14.76						
5	256QAM	1	24	14.75	14.95	14.92	14.85						
5	256QAM	12	0	14.72	14.86	14.82	14.76						
5	256QAM	12	7	14.75	14.78	14.84	14.69	15.8	0				
5	256QAM	12	19	14.60	14.79	14.91	14.64						

	GSM 1900 A/G2					
Tx Channel	Base Average Power (dBm)			Frame Average Power (dBm)		
	1800.2	1800	1800.8	1800.2	1800	1800.8
Frequency (MHz)	1800.2	1800	1800.8	1800.2	1800	1800.8
OPHS 1 Tx rate	30.09	30.14	30.89	30.09	30.14	30.89
OPHS 1 Tx rate	30.11	30.17	30.95	30.09	30.11	30.95
OPHS 2 Tx rate	27.68	28.02	27.81	29.00	27.68	27.81
OPHS 3 Tx rate	26.49	26.09	26.31	27.00	26.30	27.00
OPHS 4 Tx rate	24.07	24.12	23.97	25.00	24.07	23.97
EDGE 1 Tx rate	23.74	23.00	23.50	20.00	18.74	18.50
EDGE 2 Tx rate	24.08	24.13	23.80	25.00	18.08	17.80
EDGE 3 Tx rate	22.89	23.01	22.76	24.00	18.70	18.00
EDGE 4 Tx rate	20.77	20.00	20.50	17.77	17.00	17.50
	WCDMA II A/G2			WCDMA IV A/G2		
Tx Channel	Base			Frame		
	1800.2	1800	1800.8	1800.2	1800	1800.8
Frequency (MHz)	1800.2	1800	1800.8	1800.2	1800	1800.8
SOPF Rel 99	18.36	18.48	18.37	20.80	21.63	21.54
SOPF Rel 99	18.54	18.66	18.32	20.80	21.65	21.54
SOPF Rel 99	18.52	18.63	18.40	19.00	20.08	20.71
SOPF Rel 6	18.32	18.40	18.50	19.80	20.34	20.55
SOPF Rel 6	18.36	18.38	18.58	19.80	20.34	20.55
SOPF Rel 6	18.04	18.25	17.97	19.30	20.25	20.41
SOPF Rel 6	18.94	18.71	18.48	19.80	20.97	20.51
SOPF Rel 6	18.88	18.50	18.95	19.80	21.02	20.85
SOPF Rel 6	18.10	18.52	18.07	19.30	20.24	20.37
SOPF Rel 6	17.90	18.21	17.52	19.20	19.97	20.30
SOPF Rel 6	18.76	18.69	18.48	19.80	20.76	20.55
SOPF Rel 6	18.50	18.30	18.54	17.80	18.80	18.40
SOPF Rel 6	17.01	17.61	17.30	18.00	18.53	18.47
SOPF Rel 6	16.41	16.47	16.71	17.80	18.38	18.87
SOPF Rel 6	16.61	16.80	16.55	18.00	18.74	18.63



Band 2 Ant2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (sec)	MPE (dB)						
Channel														
1860 1860 1860														
20	QPSK	1	0	18.69	18.68	18.66	20.3	0						
20	QPSK	1	49	18.64	18.63	18.61								
20	QPSK	1	99	18.63	18.66	18.65								
20	QPSK	50	0	18.67	18.60	18.63								
20	QPSK	50	24	18.66	18.62	18.60	20.3	0						
20	QPSK	50	50	18.62	18.68	18.62								
20	16QAM	100	0	18.64	18.60	18.66								
20	16QAM	50	0	18.65	18.65	18.65								
20	16QAM	1	49	18.69	18.69	18.73	20.3	0						
20	16QAM	1	99	18.78	18.62	18.68								
20	16QAM	50	0	18.66	18.65	18.63								
20	16QAM	50	24	18.71	18.62	18.78								
20	16QAM	50	50	18.73	18.63	18.76	20.3	0						
20	16QAM	100	0	18.71	18.65	18.74								
20	64QAM	1	0	18.94	18.95	18.99								
20	64QAM	1	49	18.83	18.97	18.78								
20	64QAM	1	99	18.79	18.91	18.73	20.3	0						
20	64QAM	50	0	18.86	18.89	18.75								
20	64QAM	50	24	18.86	18.87	18.71								
20	64QAM	50	50	18.84	18.79	18.80								
20	64QAM	100	0	18.85	18.87	18.70	19.5	0.8						
20	256QAM	1	49	18.08	18.02	17.83								
20	256QAM	1	99	18.12	18.06	18.15								
20	256QAM	50	0	18.06	18.03	18.04								
20	256QAM	50	24	17.95	17.91	17.92	19.5	0.8						
20	256QAM	50	50	17.81	18.01	18.08								
20	256QAM	100	0	17.86	17.89	17.85								
Channel														
1867.5 1867.5 1867.5														
15	QPSK	1	0	18.94	18.95	18.99	20.3	0						
15	QPSK	1	37	18.81	18.88	18.81								
15	QPSK	1	74	18.73	18.93	18.81								
15	QPSK	36	0	18.87	18.90	18.77								
15	QPSK	36	25	18.80	18.79	18.80	20.3	0						
15	QPSK	36	39	18.85	18.82	18.75								
15	QPSK	75	0	18.78	18.87	18.82								
15	16QAM	1	0	18.85	18.85	18.89								
15	16QAM	1	37	18.87	18.83	18.81	20.3	0						
15	16QAM	1	74	18.68	18.92	18.81								
15	16QAM	36	0	18.80	18.83	18.80								
15	16QAM	36	25	18.61	18.89	18.69								
15	16QAM	36	39	18.61	18.89	18.69	20.3	0						
15	16QAM	75	0	18.61	18.83	18.80								
15	64QAM	1	0	18.86	18.88	18.86								
15	64QAM	1	37	18.75	18.89	18.87								
15	64QAM	1	74	18.68	18.92	18.85	20.3	0						
15	64QAM	36	0	18.76	18.78	18.68								
15	64QAM	36	25	18.67	18.74	18.67								
15	64QAM	36	39	18.77	18.73	18.65								
15	64QAM	75	0	18.80	18.78	18.87	19.5	0.8						
15	256QAM	1	37	18.05	17.97	17.83								
15	256QAM	1	74	18.05	17.74	17.83								
15	256QAM	36	0	17.94	17.88	17.88								
15	256QAM	36	25	17.82	17.87	17.84	19.5	0.8						
15	256QAM	36	39	17.76	17.82	18.01								
15	256QAM	75	0	17.86	17.82	17.86								
Channel														
1869 1869 1869														
10	QPSK	1	0	18.95	18.98	19.05	20.3	0						
10	QPSK	1	25	18.73	18.91	18.79								
10	QPSK	1	49	18.80	18.86	18.79								
10	QPSK	25	0	18.87	18.87	18.84								
10	QPSK	25	12	18.78	18.82	18.80	20.3	0						
10	QPSK	25	25	18.78	18.75	18.77								
10	QPSK	50	0	18.86	18.87	18.82								
10	16QAM	1	0	18.96	18.77	18.83								
10	16QAM	1	25	18.69	18.96	18.69	20.3	0						
10	16QAM	1	49	18.65	18.91	18.65								
10	16QAM	25	0	18.82	18.92	18.71								
10	16QAM	25	12	18.62	18.84	18.74								
10	16QAM	36	0	18.70	18.74	18.68	20.3	0						
10	16QAM	36	25	18.74	18.62	18.68								
10	16QAM	50	0	18.67	18.79	18.63								
10	64QAM	1	0	18.83	18.82	18.85								
10	64QAM	1	24	18.77	18.90	18.74	20.3	0						
10	64QAM	1	49	18.65	18.79	18.60								
10	64QAM	25	0	18.72	18.83	18.63								
10	64QAM	25	12	18.67	18.86	18.66								
10	64QAM	25	25	18.61	18.67	18.70	20.3	0						
10	64QAM	50	0	18.72	18.83	18.67								
10	256QAM	1	49	17.08	17.08	17.08								
10	256QAM	1	25	18.04	17.80	17.79								
10	256QAM	25	0	17.78	17.83	17.87	19.5	0.8						
10	256QAM	25	25	17.67	17.67	17.65								
10	256QAM	50	0	17.81	18.02	17.83								
Channel														
1862.5 1869 1869.5														
5	QPSK	1	0	18.93	18.93	19.05			20.3	0				
5	QPSK	1	12	18.74	19.00	18.72								
5	QPSK	1	24	18.70	18.84	18.77								
5	QPSK	12	0	18.81	18.87	18.79								
5	QPSK	12	7	18.82	18.87	18.82	20.3	0						
5	QPSK	12	13	18.87	18.79	18.79								
5	QPSK	25	0	18.82	18.86	18.79								
5	16QAM	1	0	18.84	18.84	18.78								
5	16QAM	1	12	18.59	18.91	18.63	20.3	0						
5	16QAM	1	24	18.68	18.88	18.67								
5	16QAM	12	0	18.74	18.92	18.86								
5	16QAM	12	7	18.67	18.89	18.68								
5	16QAM	12	13	18.64	18.79	18.64	20.3	0						
5	16QAM	25	0	18.69	18.83	18.69								
5	64QAM	1	0	18.82	18.86	18.84								
5	64QAM	1	12	18.72	18.90	18.72								
5	64QAM	1	24	18.69	18.86	18.68	20.3	0						
5	64QAM	12	0	18.76	18.86	18.62								
5	64QAM	12	7	18.56	18.80	18.68								
5	64QAM	12	13	18.74	18.87	18.75								
5	64QAM	25	0	18.74	18.74	18.67	19.5	0.8						
5	256QAM	1	0	17.93	17.93	17.82								
5	256QAM	1	12	17.90	17.85	17.74								
5	256QAM	1	24	17.89	17.84	17.84								
5	256QAM	12	0	17.92	17.84	17.88	19.5	0.8						
5	256QAM	12	12	17.76	17.76	17.76								
5	256QAM	12	13	17.65	17.79	17.78								
5	256QAM	25	0	17.81	18.02	18.05								
Channel														
1867.5 1869 1869.5														
3	QPSK	1	0	18.96	18.96	19.04	20.3	0						
3	QPSK	1	12	18.74	19.00	18.72								
3	QPSK	1	24	18.75	18.94	18.73								
3	QPSK	12	0	18.87	18.87	18.84								
3	QPSK	8	0	18.72	18.87	18.75	20.3	0						
3	QPSK	8	4	18.86	18.78	18.78								
3	QPSK	15	0	18.73	18.91	18.82								
3	16QAM	1	0	18.85	18.85	18.89								
3	16QAM	1	8	18.60	18.85	18.60	20.3	0						
3	16QAM	1	14	18.73	18.79	18.61								
3	16QAM	8	0	18.74	18.90	18.60								
3	16QAM	8	4	18.64	18.72	18.62								
3	16QAM	8	7	18.62	18.70	18.72	20.3	0						
3	16QAM	15	0	18.75	18.75	18.75								
3	16QAM	15	8	18.61	18.86	18.67								
3	16QAM	15	14	18.71	18.84	18.69								
3	16QAM	8	4	18.73	18.83	18.66	20.3	0						
3	16QAM	8	4	18.54	18.80	18.57								
3	16QAM	15	0	18.67	18.87	18.63								
3	256QAM	1	0	18.03	18.12	18.02								
3	256QAM	1	8	18.07	17.93	17.93	19.5	0.8						
3	256QAM	1	14	17.88	17.81	18.00								
3	256QAM	8	0	17.76	17.83	17.78								
3	256QAM	8	7	17.77	17.77	17.77								
3	256QAM	8	7	17.63	17.85	17.86	19.5	0.8						
3	256QAM	15	0	17.85	18.10	18.05								
Channel														
1867.5 1869 1869.5														
1.4	QPSK	1	0	18.95	18.95	18.95			20.3	0				
1.4	QPSK	1	8	18.72	18.98	18.72								
1.4	QPSK	1	16	18.62	18.87	18.62								
1.4	QPSK	3	0	18.91	18.98	18.74								
1.4	QPSK	3	0	18.75	18.90	18.75	20.3	0						
1.4	QPSK	3	8	18.88	18.80	18.71								
1.4	QPSK	3	16	18.62	18.92	18.61								
1.4	QPSK	15	0	18.60	18.76	18.60								
1.4	QPSK	3	0	18.62	18.92	18.61	20.3	0						
1.4	QPSK	3	8	18.76	18.76	18.76								
1.4	QPSK	3	16	18.60	18.92	18.67								
1.4	QPSK	15	0	18.60	18.90	18.64								
1.4	QPSK	3	0	18.66	18.72	18.63	20.3	0						
1.4	QPSK	3	8	18.67	18.64	18.64								
1.4	QPSK	3	16	18.62	18.79	18.72								
1.4	QPSK	15	0	18.64	18.72	18.63								
1.4	QPSK	3	0	18.64	18.90	18.69	20.3	0						
1.4	QPSK	3	8	18.67	18.69	18.69								
1.4	QPSK	3	16	18.67	18.84	18.67								
1.4	QPSK	3	16	18.75	18.77	18.66								
1.4	QPSK	3	8	18.79	18.72	18.72	20.3	0						
1.4	QPSK	3	16	18.66	18.76	18.66								
1.4	QPSK	3	16	18.66	18.76	18.66								
1.4	QPSK	15	0	18.66	18.77	18.63								
1.4	QPSK	3	0	18.77	1									

Band 25 Ant2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. (dBm)	Power Middle Ch./Freq. (dBm)	Power High Ch./Freq. (dBm)	Turn-up time (s)	MPE (dB)						
Channel														
26145														
20	QPSK	1	0	19.05	19.11	19.00	20.3	0						
20	QPSK	1	48	18.92	19.12	19.92								
20	QPSK	1	96	18.95	19.08	19.92								
20	QPSK	50	0	19.02	19.04	19.96								
20	QPSK	50	24	18.88	18.98	19.88	20.3	0						
20	QPSK	50	50	18.98	18.99	19.86								
20	QPSK	100	0	18.96	19.07	19.89								
20	16QAM	1	1	19.00	19.00	19.97								
20	16QAM	1	96	18.90	18.99	19.81	20.3	0						
20	16QAM	1	48	18.92	18.95	19.83								
20	16QAM	50	0	18.90	18.99	19.89								
20	16QAM	50	24	18.78	18.91	19.84								
20	16QAM	50	50	18.86	18.95	19.80	20.3	0						
20	16QAM	100	0	18.84	18.96	19.79								
20	64QAM	1	0	19.00	19.07	19.95								
20	64QAM	1	48	18.88	19.02	19.86								
20	64QAM	1	96	18.91	18.98	19.80	20.3	0						
20	64QAM	50	0	18.96	18.93	19.84								
20	64QAM	50	24	18.78	18.91	19.84								
20	64QAM	100	0	18.84	18.91	19.83								
20	256QAM	1	48	18.05	18.20	18.00	19.5	0.8						
20	256QAM	1	96	17.87	18.08	17.97								
20	256QAM	50	50	18.94	18.91	19.83								
20	256QAM	50	24	17.99	18.04	18.00								
20	256QAM	50	50	17.88	18.08	17.89	19.5	0.8						
20	256QAM	100	0	17.90	18.07	17.89								
Channel														
26165														
1807.5														
18	QPSK	1	0	18.02	19.09	19.97	20.3	0						
18	QPSK	1	37	18.87	19.02	19.83								
18	QPSK	1	74	18.84	18.98	19.87								
18	QPSK	36	0	18.90	18.91	19.83								
18	QPSK	36	18	18.84	18.90	19.78	20.3	0						
18	QPSK	36	36	18.91	18.88	19.74								
18	QPSK	75	0	18.94	19.06	19.79								
18	16QAM	1	0	18.95	18.89	19.88								
18	16QAM	1	37	18.66	18.93	19.69	20.3	0						
18	16QAM	1	74	18.77	18.92	19.67								
18	16QAM	36	0	18.82	18.85	19.79								
18	16QAM	36	20	18.73	18.84	19.72								
18	16QAM	36	20	18.73	18.84	19.72	20.3	0						
18	16QAM	75	0	18.80	18.88	19.68								
18	64QAM	1	0	19.00	18.97	19.89								
18	64QAM	1	37	18.79	18.93	19.77								
18	64QAM	1	74	18.90	18.97	19.71	20.3	0						
18	64QAM	36	0	18.85	18.80	19.77								
18	64QAM	36	20	18.77	18.93	19.67								
18	64QAM	36	36	18.91	18.92	19.72								
18	64QAM	75	0	18.85	18.86	19.68	19.5	0.8						
18	256QAM	1	37	17.79	18.13	17.80								
18	256QAM	1	74	17.75	17.84	17.92								
18	256QAM	36	0	17.80	17.82	17.86								
18	256QAM	36	20	17.80	17.84	17.77	19.5	0.8						
18	256QAM	36	36	17.74	18.05	17.73								
18	256QAM	75	0	17.76	17.89	17.83								
Channel														
26185														
1805														
18	QPSK	1	0	18.04	19.02	19.87	20.3	0						
18	QPSK	1	25	18.81	19.00	19.89								
18	QPSK	1	49	18.90	18.98	19.81								
18	QPSK	25	0	18.91	18.92	19.82								
18	QPSK	25	12	18.74	18.84	19.82	20.3	0						
18	QPSK	25	25	18.87	18.94	19.78								
18	QPSK	50	0	18.87	19.02	19.78								
18	16QAM	1	0	18.93	18.87	19.87								
18	16QAM	1	25	18.73	18.93	19.78	20.3	0						
18	16QAM	1	49	18.81	18.98	19.87								
18	16QAM	25	0	18.86	18.93	19.81								
18	16QAM	25	12	18.73	18.81	19.75								
18	16QAM	25	25	18.82	18.88	19.75	20.3	0						
18	16QAM	50	0	18.81	18.90	19.84								
18	64QAM	1	0	19.07	19.03	19.93								
18	64QAM	1	25	18.78	18.92	19.80								
18	64QAM	1	49	18.82	18.94	19.89	20.3	0						
18	64QAM	25	0	18.90	18.87	19.73								
18	64QAM	25	12	18.82	18.82	19.76								
18	64QAM	25	25	18.83	18.78	19.70								
18	64QAM	50	0	18.79	18.86	19.75	19.5	0.8						
18	256QAM	1	0	18.11	18.25	17.85								
18	256QAM	1	25	17.99	18.03	17.75								
18	256QAM	1	49	17.85	17.85	17.73								
18	256QAM	25	0	17.82	17.87	17.87	19.5	0.8						
18	256QAM	25	12	17.77	17.77	17.84								
18	256QAM	25	25	17.82	17.88	17.81								
18	256QAM	50	0	17.86	17.82	18.02								
Channel														
26205														
1802.5														
5	QPSK	1	0	18.03	19.00	19.85	20.3	0						
5	QPSK	1	12	18.84	19.02	19.79								
5	QPSK	1	24	18.89	19.03	19.88								
5	QPSK	12	0	18.91	18.92	19.85								
5	QPSK	12	7	18.85	18.91	19.86	20.3	0						
5	QPSK	12	13	18.88	18.94	19.78								
5	QPSK	25	0	18.82	18.87	19.76								
5	16QAM	1	0	18.87	18.89	19.80								
5	16QAM	1	12	18.70	18.95	19.78	20.3	0						
5	16QAM	1	24	18.83	18.93	19.74								
5	16QAM	12	0	18.79	18.86	19.80								
5	16QAM	12	7	18.67	18.91	19.67								
5	16QAM	12	13	18.75	18.87	19.78	20.3	0						
5	16QAM	25	0	18.81	18.86	19.75								
5	64QAM	1	0	19.06	18.96	19.86								
5	64QAM	1	12	18.74	18.96	19.72								
5	64QAM	1	24	18.80	18.84	19.68	20.3	0						
5	64QAM	12	0	18.83	18.79	19.80								
5	64QAM	12	13	18.71	18.80	19.70								
5	64QAM	12	13	18.91	18.83	19.77								
5	64QAM	25	0	18.86	18.96	19.70	19.5							



Band 38 Ant2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)				39760	39800	39840				
20	QPSK	1	0	19.15	19.43	19.31	20.8	0		
20	QPSK	1	49	19.21	19.23	19.34				
20	QPSK	1	99	19.37	19.35	19.17				
20	QPSK	50	0	19.23	19.35	19.26				
20	QPSK	50	24	19.05	19.30	19.13	20.8	0		
20	QPSK	50	49	19.02	19.37	19.34				
20	QPSK	100	0	19.19	19.22	19.08				
20	HQAM	1	0	19.19	19.38	19.25				
20	HQAM	1	49	19.02	19.15	19.12	20.8	0		
20	HQAM	1	99	19.15	19.08	19.17				
20	HQAM	50	0	19.17	19.32	19.28				
20	HQAM	50	24	19.05	19.22	19.13				
20	HQAM	50	50	19.00	19.06	19.16	20.8	0		
20	HQAM	100	0	19.00	19.07	19.04				
20	HQAM	1	0	19.02	19.37	19.31				
20	HQAM	1	49	19.12	19.20	19.11				
20	HQAM	50	0	19.02	19.09	19.03	20.8	0		
20	HQAM	50	24	19.04	19.15	19.04				
20	HQAM	100	0	19.17	19.30	19.12				
20	HQAM	100	0	19.17	19.30	19.12				
20	25QAM	1	0	17.94	18.03	17.95	19.5	1.3		
20	25QAM	1	49	17.82	17.93	18.04				
20	25QAM	1	99	17.96	17.93	17.85				
20	25QAM	50	0	17.82	17.97	17.87				
20	25QAM	50	24	17.87	17.88	17.92	19.5	1.3		
20	25QAM	50	50	17.83	17.88	17.89				
20	25QAM	100	0	17.83	17.87	17.88				
20	25QAM	100	0	17.83	17.87	17.88				
Channel										
Frequency (MHz)				39765	39805	39815	Time-up limit (dBm)	MPE (dB)		
15	QPSK	1	0	19.15	19.38	19.12	20.8	0		
15	QPSK	1	37	19.19	19.05	19.21				
15	QPSK	1	74	18.92	18.99	19.08				
15	QPSK	36	0	19.07	19.30	19.14				
15	QPSK	36	20	18.95	19.19	19.04	20.8	0		
15	QPSK	36	36	19.02	19.12	19.05				
15	QPSK	75	0	19.10	19.02	19.05				
15	HQAM	1	0	19.04	19.16	19.07				
15	HQAM	1	74	18.94	19.04	19.07	20.8	0		
15	HQAM	36	0	19.06	19.17	19.12				
15	HQAM	36	39	18.93	19.07	19.05				
15	HQAM	75	0	18.92	18.88	19.13				
15	HQAM	75	0	19.14	19.29	19.05	20.8	0		
15	HQAM	1	37	18.89	19.04	19.12				
15	HQAM	1	74	18.96	19.00	18.96				
15	HQAM	36	0	19.14	19.29	19.05				
15	HQAM	36	39	18.93	19.03	19.16	20.8	0		
15	HQAM	75	0	19.02	19.02	19.01				
15	25QAM	1	0	17.74	17.85	17.78				
15	25QAM	1	37	17.82	17.89	17.78				
15	25QAM	36	0	17.69	17.69	17.66	19.5	1.3		
15	25QAM	36	39	17.69	17.85	17.77				
15	25QAM	75	0	17.82	17.87	17.89				
15	25QAM	75	0	17.82	17.87	17.89				
Channel										
Frequency (MHz)				39760	39800	39820	Time-up limit (dBm)	MPE (dB)		
10	QPSK	1	0	19.05	19.31	19.14	21	0		
10	QPSK	1	25	19.05	19.35	19.12				
10	QPSK	1	49	18.85	19.05	18.88				
10	QPSK	25	0	19.05	19.35	19.05				
10	QPSK	25	12	18.95	19.17	19.04	20.8	0		
10	QPSK	25	25	18.97	19.07	19.10				
10	QPSK	50	0	19.05	19.35	19.06				
10	HQAM	1	0	19.11	19.10	19.04				
10	HQAM	1	25	18.94	19.30	19.02	20.8	0		
10	HQAM	1	49	19.07	19.30	19.12				
10	HQAM	25	0	18.92	19.06	19.03				
10	HQAM	25	19	18.93	19.04	19.06				
10	HQAM	50	0	18.88	18.86	19.05	20.8	0		
10	HQAM	50	0	18.94	19.30	19.05				
10	HQAM	1	25	18.90	19.01	19.03				
10	HQAM	1	49	18.88	19.30	19.03				
10	HQAM	25	12	18.89	19.05	19.02	20.8	0		
10	HQAM	25	25	19.00	19.09	19.08				
10	HQAM	50	0	19.05	19.08	19.05				
10	HQAM	50	0	19.05	19.08	19.05				
10	25QAM	1	0	17.81	17.97	17.70	19.5	1.3		
10	25QAM	1	25	17.86	17.90	17.80				
10	25QAM	1	49	17.79	17.83	17.73				
10	25QAM	25	0	17.69	17.81	17.85				
10	25QAM	25	12	17.84	17.90	17.83	19.5	1.3		
10	25QAM	25	25	17.87	17.83	17.84				
10	25QAM	50	0	17.84	18.02	17.81				
10	25QAM	50	0	17.84	18.02	17.81				
Channel										
Frequency (MHz)				39775 <th>39800</th> <th>39825</th> <th>Time-up limit (dBm)</th> <th>MPE (dB)</th> <th colspan="2"></th>	39800	39825	Time-up limit (dBm)	MPE (dB)		
5	QPSK	1	0	19.05	19.28	19.13	20.8	0		
5	QPSK	1	12	19.00	19.05	19.04				
5	QPSK	1	24	18.99	19.04	19.00				
5	QPSK	12	0	19.06	19.11	19.03				
5	QPSK	12	7	18.99	19.18	19.09	20.8	0		
5	QPSK	12	13	18.92	19.11	19.03				
5	QPSK	25	0	19.05	19.13	19.06				
5	HQAM	1	0	19.00	19.11	19.12				
5	HQAM	1	12	18.92	19.08	19.08	20.8	0		
5	HQAM	1	24	19.02	19.07	19.00				
5	HQAM	12	0	19.07	19.18	19.08				
5	HQAM	12	7	18.92	19.02	19.07				
5	HQAM	12	13	18.89	18.97	19.07	20.8	0		
5	HQAM	25	0	18.89	19.00	19.08				
5	HQAM	25	0	18.92	19.22	19.02				
5	HQAM	25	0	18.95	19.02	19.12				
5	HQAM	1	24	18.96	19.01	19.04	20.8	0		
5	HQAM	12	0	18.97	19.10	19.03				
5	HQAM	12	7	18.94	19.04	19.07				
5	HQAM	12	13	19.00	18.88	19.03				
5	HQAM	25	0	18.93	19.10	19.01	20.8	0		
5	HQAM	25	0	18.97	19.17	19.07				
5	HQAM	12	0	19.05	19.28	19.05				
5	HQAM	12	7	19.01	19.03	19.02				
5	25QAM	1	0	17.71	17.84	17.75	19.5	1.3		
5	25QAM	1	12	17.81	17.86	17.80				
5	25QAM	1	24	17.86	17.85	17.71				
5	25QAM	12	0	17.70	17.81	17.80				
5	25QAM	12	7	17.83	17.89	17.80	19.5	1.3		
5	25QAM	12	13	17.82	17.75	17.80				
5	25QAM	25	0	17.69	17.81	17.80				
5	25QAM	25	12	17.82	17.87	17.80				
5	25QAM	25	25	17.87	17.83	17.80				



Band 48_FCC Ant2														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power Low Mod Ch / Freqs	Power High Ch / Freqs	Power High Mod Ch / Freqs	Turn-up time (dBm)	MFR (dB)					
Channel				56540	56550	56150	56650							
Frequency (MHz)				56540	56550	56150	56650							
20	QPSK	1	0	19.22	19.40	19.24	19.12	21	0					
20	QPSK	1	49	19.20	19.38	19.20	19.07							
20	QPSK	1	99	19.18	19.36	19.16	19.04							
20	QPSK	50	0	19.23	19.28	19.20	19.01							
20	QPSK	50	24	19.18	19.22	19.08	19.04	21	0					
20	QPSK	50	50	19.17	19.21	19.11	19.02							
20	QPSK	100	0	19.19	19.26	19.12	19.01							
20	16QAM	1	0	19.28	19.30	19.33	19.22	21	0					
20	16QAM	1	49	19.25	19.27	19.23	19.20							
20	16QAM	1	99	19.20	19.20	19.26	19.26							
20	16QAM	50	0	19.23	19.31	19.20	19.23							
20	16QAM	50	24	19.18	19.22	19.13	19.11	21	0					
20	16QAM	50	50	19.16	19.21	19.14	19.13							
20	64QAM	100	0	19.16	19.27	19.16	19.10							
20	64QAM	1	0	19.22	19.22	19.14	19.10	21	0					
20	64QAM	1	49	19.13	19.13	19.08	19.12							
20	64QAM	1	99	19.03	19.14	19.11	19.05							
20	64QAM	50	0	19.22	19.34	19.27	19.18							
20	64QAM	50	24	19.26	19.36	19.17	19.12	20	1					
20	64QAM	50	50	19.25	19.25	19.16	19.15							
20	64QAM	100	0	19.26	19.24	19.07	19.19							
20	256QAM	1	0	19.27	19.35	19.20	19.12							
20	256QAM	1	49	19.27	19.33	19.12	19.12	18	3					
20	256QAM	1	99	19.30	19.31	19.17	19.09							
20	256QAM	50	0	19.24	19.43	19.18	19.09							
20	256QAM	50	24	19.20	19.35	19.23	19.12							
20	256QAM	50	50	19.28	19.32	19.14	19.05	18	3					
20	256QAM	100	0	19.14	19.22	19.05	19.12							
Channel				56115	56520	56160	56665							
Frequency (MHz)				56115	56520	56160	56665							
15	QPSK	1	0	19.14	19.33	19.19	19.25	21	0					
15	QPSK	1	37	19.18	19.28	19.13	19.05							
15	QPSK	1	74	19.07	19.20	19.11	19.02							
15	QPSK	86	0	19.19	19.26	19.13	19.03							
15	QPSK	86	20	19.08	19.14	19.02	19.01	21	0					
15	16QAM	1	0	19.19	19.19	19.24	19.28							
15	QPSK	75	0	19.12	19.22	19.08	19.08							
15	16QAM	1	0	19.19	19.20	19.31	19.15	21	0					
15	16QAM	1	37	19.26	19.24	19.14	19.13							
15	16QAM	1	74	19.20	19.21	19.25	19.23							
15	16QAM	58	0	19.21	19.27	19.14	19.21							
15	16QAM	86	20	19.14	19.12	19.04	19.05	20	1					
15	16QAM	86	59	19.06	19.17	19.11	19.05							
15	16QAM	75	0	19.06	19.18	19.08	19.01							
15	64QAM	1	0	19.11	19.14	19.12	19.21							
15	64QAM	1	37	19.06	19.11	19.06	19.07	21	0					
15	64QAM	1	74	19.03	19.09	19.07	19.02							
15	64QAM	86	0	19.11	19.31	19.21	19.13							
15	64QAM	86	20	19.24	19.34	19.14	19.09	20	1					
15	64QAM	86	59	19.22	19.27	19.06	19.07							
15	64QAM	75	0	19.20	19.15	19.02	19.06							
15	256QAM	1	0	19.26	19.29	19.17	19.05							
15	256QAM	1	37	19.21	19.28	19.01	19.05	18	3					
15	256QAM	1	74	19.21	19.22	19.13	19.04							
15	256QAM	86	0	19.16	19.41	19.17	19.08							
15	256QAM	86	20	19.16	19.33	19.14	19.03							
15	256QAM	86	59	19.25	19.30	19.04	19.09	18	3					
15	256QAM	75	0	19.04	19.20	19.02	19.02							
Channel				56250	56115	56160	56665							
Frequency (MHz)				56250	56115	56160	56665							
10	QPSK	1	0	19.12	19.32	19.15	19.08	21	0					
10	QPSK	1	25	19.16	19.27	19.15	19.05							
10	QPSK	1	49	19.14	19.18	19.11	19.06							
10	QPSK	25	0	19.19	19.21	19.13	19.08							
10	QPSK	25	12	19.14	19.14	19.02	19.00	21	0					
10	QPSK	25	25	19.09	19.14	19.04	19.05							
10	16QAM	1	0	19.14	19.18	19.07	19.00							
10	16QAM	1	0	19.26	19.28	19.31	19.11	21	0					
10	16QAM	1	25	19.23	19.24	19.21	19.14							
10	16QAM	1	49	19.26	19.24	19.20	19.20							
10	16QAM	25	0	19.13	19.22	19.16	19.17							
10	16QAM	25	12	19.12	19.19	19.10	19.08	21	0					
10	16QAM	25	25	19.04	19.16	19.05	19.05							
10	16QAM	50	0	19.11	19.26	19.18	19.04							
10	64QAM	1	0	19.14	19.20	19.09	19.23	21	0					
10	64QAM	1	25	19.11	19.12	19.08	19.04							
10	64QAM	1	49	19.08	19.03	19.05	19.06							
10	64QAM	25	0	19.12	19.25	19.20	19.13							
10	64QAM	25	12	19.16	19.27	19.12	19.06	20	1					
10	64QAM	25	25	19.18	19.14	19.05	19.05							
10	64QAM	50	0	19.25	19.22	19.00	19.09							
10	256QAM	1	0	19.24	19.31	19.17	19.02							
10	256QAM	1	25	19.16	19.23	19.04	19.05	18	3					
10	256QAM	1	49	19.22	19.30	19.13	19.07							
10	256QAM	25	0	19.20	19.37	19.12	19.02							
10	256QAM	25	12	19.17	19.19	19.14	19.08							
10	256QAM	25	25	19.17	19.25	19.12	19.00	18	3					
10	256QAM	50	0	19.03	19.18	19.05	19.03							
Channel				56525	56115	56160	56665							
Frequency (MHz)				56525	56115	56160	56665							
5	QPSK	1	0	19.12	19.36	19.17	19.03	21	0					
5	QPSK	1	12	19.16	19.30	19.15	19.03							
5	QPSK	1	24	19.11	19.23	19.09	19.03							
5	QPSK	12	0	19.17	19.21	19.19	19.03							
5	QPSK	12	7	19.09	19.14	19.05	19.01	21	0					
5	QPSK	12	19	19.13	19.17	19.01	19.06							
5	QPSK	25	0	19.16	19.16	19.03	19.09							
5	QPSK	1	0	19.27	19.24	19.24	19.17							
5	16QAM	1	0	19.18	19.19	19.15	19.14	21	0					
5	16QAM	1	12	19.21	19.26	19.20	19.23							
5	16QAM	1	24	19.14	19.21	19.11	19.19							
5	16QAM	12	0	19.15	19.15	19.09	19.06							
5	16QAM	12	7	19.16	19.15	19.09	19.06	21	0					
5	16QAM	12	13	19.04	19.11	19.12	19.03							
5	16QAM	1	0	19.11	19.21	19.13	19.24							
5	16QAM	1	12	19.04	19.04	19.09	19.06							
5	16QAM	1	24	19.08	19.08	19.08	19.08	20	1					
5	16QAM	12	13	19.19	19.23	19.21	19.14							
5	64QAM	1	0	19.19	19.24	19.25	19.19							
5	64QAM	1	12	19.24	19.29	19.14	19.14							
5	64QAM	12	0	19.23	19.19	19.05	19.07	18	3					
5	64QAM	12	7	19.22	19.20	19.12	19.05							
5	256QAM	1	12	19.17	19.29	19.09	19.06							
5	256QAM	1	24	19.24	19.21	19.12	19.02							
5	256QAM	12	0	19.21	19.32	19.12	19.02	18	3					
5	256QAM	12	7	19.16	19.32	19.13	19.05							
5	256QAM	12	13	19.16	19.29	19.10	19.04							
5	256QAM	12	19	19.07	19.18	19.05	19.03							

GSM1900 Airc3					
GSM1900	Band Average Power (dBm)			Front Average Power (dBm)	
	TS Channel	1852.2	1862.1	1872.0	1881.9
Frequency (MHz)	1852.2	1862.1	1872.0	1881.9	1891.8
DMB Tx Watt	25.76	25.73	25.55	27.20	16.78
QPRS 1 Tx watt	25.75	25.76	25.65	27.20	16.79
QPRS 2 Tx watt	23.62	23.64	23.50	24.35	17.62
QPRS 3 Tx watt	22.01	22.15	22.16	23.20	17.75
QPRS 4 Tx watt	19.62	19.58	19.63	20.70	16.58
EDGE 1 Tx watt	21.27	21.23	21.12	22.70	12.27
EDGE 2 Tx watt	19.47	19.65	19.49	20.70	13.47
EDGE 3 Tx watt	18.31	18.64	18.42	19.20	14.65
EDGE 4 Tx watt	16.23	16.38	16.24	17.20	13.23

WCDMA II Airc3					
Band	WCDMA II			WCDMA IV	
	TS Channel	8852	8861	8870	8879
Frequency (MHz)	8852.4	8861.4	8870.4	8879.4	8888.4
SCPP Rel 99	16.76	16.76	16.76	17.60	16.76
SCPP Rel 99	16.22	16.33	16.18	17.60	16.12
SCPP Rel 99	15.00	15.23	15.00	16.00	14.86
SCPP Rel 99	15.34	15.27	15.26	16.66	15.64
SCPP Rel 99	14.75	14.84	14.76	16.70	14.52
SCPP Rel 99	14.65	14.66	14.65	16.70	14.55
SCPP Rel 99	15.15	15.12	15.09	16.69	15.01
SCPP Rel 99	15.07	15.11	15.10	16.69	15.04
SCPP Rel 99	14.57	14.64	14.76	16.70	14.63
SCPP Rel 99	14.45	14.47	14.49	16.70	14.56
SCPP Rel 99	15.14	15.13	15.10	16.69	15.07
SCPP Rel 99	13.08	13.40	13.28	14.60	13.11
SCPP Rel 99	13.25	14.37	14.21	15.00	14.41
SCPP Rel 99	13.26	13.17	13.08	14.60	13.01
SCPP Rel 99	15.15	15.17	15.06	16.69	15.08

Band 2 Ant3														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MFR (dB)						
Channel														
Frequency (MHz)				18615	18660	18900								
20	QPSK	1	0	14.79	14.87	14.74	18.2	0						
20	QPSK	1	49	14.87	14.81	14.44								
20	QPSK	1	99	14.87	14.60	14.72								
20	QPSK	50	0	14.67	14.60	14.62								
20	QPSK	50	24	14.64	14.73	14.87	18.2	0						
20	QPSK	50	50	14.47	14.76	14.82								
20	QPSK	100	0	14.64	14.60	14.71								
20	16QAM	1	0	14.80	14.81	14.80								
20	16QAM	1	49	14.55	14.64	14.86	18.2	0						
20	16QAM	1	99	14.63	14.57	14.47								
20	16QAM	50	0	14.64	14.60	14.60								
20	16QAM	50	24	14.80	14.57	14.49								
20	16QAM	100	0	14.65	14.71	14.45	18.2	0						
20	16QAM	50	24	14.80	14.57	14.49								
20	16QAM	50	50	14.49	14.46	14.45								
20	16QAM	100	0	14.70	14.84	14.69								
20	64QAM	1	0	14.51	14.68	14.41	19.2	0						
20	64QAM	1	99	14.68	14.56	14.51								
20	64QAM	50	0	14.64	14.63	14.63								
20	64QAM	50	24	14.53	14.70	14.40								
20	64QAM	100	0	14.52	14.60	14.64	19.2	0						
20	64QAM	50	24	14.57	14.62	14.47								
20	256QAM	50	50	14.42	14.71	14.45								
20	256QAM	100	0	14.54	14.69	14.54								
Channel														
Frequency (MHz)				18615	18660	18900	Turn-up time (min)	MFR (dB)						
15	QPSK	1	0	14.74	14.82	14.82	18.2	0						
15	QPSK	1	37	14.64	14.87	14.26								
15	QPSK	1	74	14.64	14.52	14.43								
15	QPSK	36	0	14.63	14.73	14.61								
15	QPSK	36	18	14.57	14.68	14.53	18.2	0						
15	QPSK	36	36	14.44	14.72	14.67								
15	QPSK	75	0	14.64	14.69	14.64								
15	16QAM	1	0	14.77	14.71	14.84								
15	16QAM	1	37	14.51	14.54	14.36	18.2	0						
15	16QAM	1	74	14.58	14.82	14.48								
15	16QAM	36	0	14.58	14.82	14.49								
15	16QAM	36	20	14.51	14.53	14.43								
15	16QAM	75	0	14.40	14.68	14.45	19.2	0						
15	16QAM	75	0	14.44	14.68	14.51								
15	64QAM	1	0	14.57	14.78	14.85								
15	64QAM	1	37	14.40	14.68	14.49								
15	64QAM	1	74	14.50	14.53	14.44	19.2	0						
15	64QAM	36	0	14.51	14.79	14.45								
15	64QAM	36	18	14.41	14.64	14.46								
15	64QAM	36	36	14.37	14.67	14.39								
15	64QAM	75	0	14.40	14.67	14.57	19.2	0						
15	64QAM	75	0	14.46	14.67	14.57								
15	256QAM	1	0	14.56	14.69	14.48								
15	256QAM	1	37	14.42	14.58	14.39								
15	256QAM	1	74	14.44	14.47	14.39	19.2	0						
15	256QAM	36	0	14.51	14.64	14.48								
15	256QAM	36	20	14.50	14.57	14.41								
15	256QAM	36	39	14.29	14.66	14.43								
15	256QAM	75	0	14.42	14.62	14.52	19.2	0						
15	256QAM	75	0	14.42	14.62	14.52								
Channel														
18660 18660 18925														
15	QPSK	1	0	14.73	14.78	14.78	18.2	0						
15	QPSK	1	25	14.62	14.69	14.34								
15	QPSK	1	49	14.65	14.68	14.43								
15	QPSK	25	0	14.65	14.68	14.43								
15	QPSK	25	12	14.52	14.72	14.53	18.2	0						
15	QPSK	25	25	14.33	14.77	14.42								
15	QPSK	50	0	14.62	14.69	14.62								
15	16QAM	1	0	14.66	14.73	14.82								
15	16QAM	1	26	14.48	14.57	14.30	18.2	0						
15	16QAM	1	49	14.58	14.68	14.49								
15	16QAM	25	0	14.58	14.79	14.49								
15	16QAM	25	12	14.54	14.50	14.39								
15	16QAM	50	0	14.40	14.58	14.41	19.2	0						
15	16QAM	50	0	14.40	14.58	14.41								
15	64QAM	1	0	14.49	14.74	14.66								
15	64QAM	1	26	14.46	14.63	14.46								
15	64QAM	1	49	14.59	14.64	14.36	19.2	0						
15	64QAM	25	0	14.53	14.80	14.40								
15	64QAM	25	12	14.43	14.69	14.36								
15	64QAM	25	25	14.31	14.67	14.31								
15	64QAM	50	0	14.43	14.52	14.44	19.2	0						
15	64QAM	50	0	14.52	14.62	14.50								
15	256QAM	1	0	14.38	14.63	14.32								
15	256QAM	1	49	14.48	14.46	14.40								
15	256QAM	25	0	14.52	14.58	14.37	19.2	0						
15	256QAM	25	0	14.52	14.58	14.37								
15	256QAM	25	12	14.46	14.51	14.44								
15	256QAM	25	25	14.37	14.63	14.33								
15	256QAM	50	0	14.41	14.57	14.38	19.2	0						
15	256QAM	50	0	14.41	14.57	14.38								
Channel														
18625 18660 18975														
5	QPSK	1	0	14.73	14.74	14.77	18.2	0						
5	QPSK	1	12	14.59	14.70	14.37								
5	QPSK	1	24	14.65	14.54	14.40								
5	QPSK	12	0	14.65	14.66	14.66								
5	QPSK	12	7	14.50	14.72	14.50	18.2	0						
5	QPSK	12	13	14.39	14.70	14.46								
5	QPSK	25	0	14.67	14.76	14.65								
5	16QAM	1	0	14.77	14.73	14.89								
5	16QAM	1	24	14.54	14.45	14.45	19.2	0						
5	16QAM	12	0	14.58	14.79	14.82								
5	16QAM	12	7	14.56	14.46	14.37								
5	16QAM	12	13	14.39	14.54	14.36								
5	16QAM	25	0	14.49	14.69	14.40	19.2	0						
5	64QAM	1	0	14.56	14.77	14.80								



Band 25 Ant3																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up time (s)	MPE (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	14.90	14.93	14.95	16.2	0								
20	QPSK	1	49	14.73	14.74	14.87										
20	QPSK	1	99	14.77	14.67	14.85										
20	QPSK	50	0	14.76	14.64	14.74										
20	QPSK	50	49	14.60	14.78	14.82	16.2	0								
20	QPSK	50	99	14.57	14.83	14.84										
20	QPSK	100	0	14.72	14.63	14.74										
20	16QAM	1	0	14.83	14.76	14.49										
20	16QAM	1	49	14.81	14.71	14.49	16.2	0								
20	16QAM	1	99	14.86	14.81	14.56										
20	16QAM	50	0	14.73	14.89	14.68										
20	16QAM	50	24	14.82	14.85	14.85										
20	16QAM	50	99	14.84	14.77	14.83	16.2	0								
20	16QAM	100	0	14.82	14.75	14.68										
20	16QAM	1	0	14.81	14.87	14.75										
20	16QAM	1	49	14.83	14.74	14.43										
20	16QAM	50	0	14.72	14.87	14.87	16.2	0								
20	16QAM	50	24	14.83	14.76	14.49										
20	16QAM	50	99	14.85	14.74	14.57										
20	16QAM	100	0	14.88	14.72	14.71										
20	256QAM	1	0	14.84	14.79	14.46	16.2	0								
20	256QAM	1	49	14.81	14.78	14.46										
20	256QAM	1	99	14.70	14.57	14.59										
20	256QAM	50	0	14.71	14.68	14.46										
20	256QAM	50	24	14.83	14.76	14.57	16.2	0								
20	256QAM	50	99	14.80	14.75	14.59										
20	256QAM	100	0	14.82	14.75	14.59										
20	256QAM	100	0	14.82	14.75	14.59										
Channel																
Frequency (MHz)																
15	QPSK	1	0	14.88	14.86	14.82	16.2	0								
15	QPSK	1	37	14.82	14.73	14.81										
15	QPSK	1	74	14.68	14.64	14.60										
15	QPSK	36	0	14.70	14.87	14.87										
15	QPSK	36	20	14.68	14.85	14.56	16.2	0								
15	QPSK	36	39	14.48	14.71	14.60										
15	QPSK	75	0	14.68	14.74	14.69										
15	16QAM	1	0	14.70	14.81	14.68										
15	16QAM	1	37	14.53	14.81	14.41	16.2	0								
15	16QAM	1	74	14.54	14.79	14.46	16.2	0								
15	16QAM	36	0	14.84	14.86	14.54										
15	16QAM	36	20	14.57	14.57	14.50										
15	16QAM	36	39	14.67	14.68	14.62										
15	16QAM	75	0	14.48	14.72	14.64	16.2	0								
15	16QAM	1	0	14.71	14.78	14.70										
15	16QAM	1	37	14.68	14.67	14.60										
15	16QAM	1	74	14.69	14.53	14.51										
15	16QAM	36	0	14.67	14.84	14.82	16.2	0								
15	16QAM	36	20	14.51	14.68	14.60										
15	16QAM	36	39	14.42	14.51	14.46										
15	16QAM	75	0	14.62	14.66	14.64										
15	256QAM	1	0	14.62	14.66	14.64	16.2	0								
15	256QAM	1	37	14.25	14.69	14.33										
15	256QAM	1	74	14.57	14.43	14.47										
15	256QAM	36	0	14.63	14.67	14.60										
15	256QAM	36	20	14.53	14.63	14.48	16.2	0								
15	256QAM	36	39	14.44	14.70	14.59										
15	256QAM	75	0	14.62	14.70	14.62										
15	256QAM	75	0	14.62	14.70	14.62										
Channel																
Frequency (MHz)																
10	QPSK	1	0	14.88	14.81	14.75	16.2	0								
10	QPSK	1	25	14.68	14.77	14.53										
10	QPSK	1	49	14.68	14.59	14.62										
10	QPSK	1	74	14.71	14.68	14.72										
10	QPSK	25	12	14.55	14.70	14.53	16.2	0								
10	QPSK	25	25	14.44	14.78	14.57										
10	QPSK	49	0	14.58	14.73	14.64										
10	16QAM	1	0	14.70	14.78	14.66										
10	16QAM	1	25	14.52	14.68	14.38	16.2	0								
10	16QAM	1	49	14.64	14.54	14.40	16.2	0								
10	16QAM	25	12	14.60	14.68	14.47										
10	16QAM	25	25	14.45	14.65	14.51										
10	16QAM	50	0	14.62	14.71	14.58										
10	16QAM	1	0	14.70	14.78	14.70	16.2	0								
10	16QAM	1	25	14.53	14.64	14.36										
10	16QAM	1	49	14.62	14.54	14.52										
10	16QAM	25	0	14.65	14.80	14.55										
10	16QAM	25	25	14.37	14.69	14.45	16.2	0								
10	16QAM	50	0	14.52	14.71	14.58										
10	256QAM	1	0	14.73	14.71	14.66										
10	256QAM	1	25	14.25	14.69	14.42										
10	256QAM	1	49	14.67	14.51	14.56	16.2	0								
10	256QAM	25	0	14.61	14.69	14.51										
10	256QAM	25	25	14.51	14.69	14.51										
10	256QAM	25	12	14.51	14.69	14.36										
10	256QAM	25	25	14.38	14.67	14.47	16.2	0								
10	256QAM	50	0	14.54	14.74	14.65										
10	256QAM	50	0	14.54	14.74	14.65										
10	256QAM	50	0	14.54	14.74	14.65										
Channel																
Frequency (MHz)																
5	QPSK	1	0	14.79	14.83	14.78	16.2	0								
5	QPSK	1	12	14.65	14.72	14.48										
5	QPSK	1	24	14.67	14.54	14.55										
5	QPSK	12	0	14.63	14.82	14.60										
5	QPSK	12	7	14.64	14.65	14.57	16.2	0								
5	QPSK	12	13	14.49	14.79	14.61										
5	QPSK	24	0	14.68	14.78	14.65										
5	16QAM	1	0	14.73	14.80	14.64										
5	16QAM	1	12	14.51	14.69	14.49	16.2	0								
5	16QAM	1	24	14.68	14.52	14.45	16.2	0								
5	16QAM	12	0	14.65	14.77	14.63										
5	16QAM	12	7	14.60	14.62	14.48										
5	16QAM	12	13	14.44	14.64	14.43	16.2	0								
5	16QAM	24	0	14.62	14.67	14.64										
5	16QAM	24	7	14.75	14.60	14.58										
5	16QAM	12	12	14.55	14.63	14.34										
5	16QAM	12	13	14.45	14.60	14.36	16.2	0								
5	16QAM	24	0	14.69	14.75	14.67										
5	16QAM	24	7	14.59	14.67	14.40										
5	16QAM	12	0	14.60	14.62	14.43										
5	256QAM	1	0	14.62	14.66	14.64										
5	256QAM	1	12	14.27	14.62	14.32										
5	256QAM	1	24	14.57	14.55	14.44										
5	256QAM	1	0	14.80	14.73	14.77	16.2	0								
5	256QAM	1	12	14.60	14.65	14.48										
5	256QAM	1	24	14.57	14.55	14.50										
5	256QAM	12	0	14.59	14.79	14.68										
5	256QAM	12	0	14.59	14.79	14.68	16.2	0								
5	256QAM	12	13	14.47	14.68	14.43										
5	256QAM	25	0	14.62	14.65	14.56										
5	256QAM	25	0	14.62	14.65	14.56										
5	256QAM	25	0	14.62	14.65	14.56	16.2	0								
5	256QAM	25	0	14.62	14.65	14.56										
5	256QAM	25	0	14.62	14.65	14.56										
5	256QAM	25	0	14.62	14.65	14.56										
Channel																
Frequency (MHz)																
3	QPSK	1	0	14.85	14.80	14.82	16.2	0								
3	QPSK	1	0	14.76	14.76	14.76										
3	QPSK	1	14	14.67	14.54	14.50										
3	QPSK	8	0	14.67	14.84	14.86										
3	QPSK	8	0	14.65	14.73	14.71	16.2	0								
3	QPSK	8	7	14.48	14.73	14.61										
3	QPSK	15	0	14.59	14.80	14.83										
3	QPSK	15	0	14.71	14.72	14.72										
3	QPSK	1	0	14.47	14.80	14.47	16.2	0								
3	QPSK	1	14	14.55	14.56	14.54										
3	QPSK	8	0	14.66	14.86	14.81										
3	QPSK	8	0	14.66	14.86	14.81										
3	QPSK	8	4	14.58	14.68	14.39	16.2	0								
3	QPSK	8	4	14.58	14.68	14.39										
3	QPSK	8	14	14.43	14.43	14.43										
3	QPSK	8	7	14.49	14.67	14.59										
3	QPSK	1	0	14.60	14.60	14.39	16.2	0								
3	QPSK	1	14	14.52	14.52	14.52										
3	QPSK	8	0	14.79	14.77	14.71										
3	QPSK	8	0	14.79	14.77	14.71										
3	QPSK	1	0	14.62	14.68	14.39	16.2	0								
3	QPSK	1	14	14.54	14.54	14.54										
3	QPSK	8	0	14.66	14.86	14.81										
3	QPSK	8	0	14.66	14.86	14.81										
3	QPSK	8	4	14.58	14.68	14.39	16.2	0								
3	QPSK	8	4	14.58	14.68	14.39										
3	QPSK	8	14	14.43	14.43	14.43										
3	QPSK	8	7	14.49	14.67	14.59										
3	QPSK	1	0	14.60	14.60	14.39	16.2	0								
3	QPSK	1	14	14.52	14.52	14.52										
3	QPSK	8	0	14.79	14.77	14.71										
3	QPSK	8	0	14.79	14.77	14.71										
3	QPSK	1	0	14.62	14.68	14.39	16.2	0								
3	QPSK	1	14	14.54	14.54	14.54										
3	QPSK	8	0	14.66	14.86	14.81										
3	QPSK	8	0	14.66	14.86	14.81										
3	QPSK	8	4	14.58	14.68	14.39	16.2	0								
3	QPSK	8	4	14.58	14.68	14.39										
3	QPSK	8	14	14.43	14.43	14.43										
3	QPSK	8	7	14.49	14.67	14.59										
3	QPSK	1	0	14.60	14.60	14.39	16.2	0	</							



Band 38 Ant3											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPE (dB)			
Channel											
Frequency (MHz)				39760	39800	39840					
20	QPSK	1	0	17.61	17.76	17.96	19	0			
20	QPSK	1	48	17.59	17.59	17.44					
20	QPSK	1	96	17.60	17.43	17.40					
20	QPSK	50	0	17.64	17.73	17.47					
20	QPSK	50	24	17.37	17.58	17.27	19	0			
20	QPSK	50	48	17.46	17.61	17.41					
20	QPSK	100	0	17.62	17.63	17.42					
20	16QAM	1	0	17.56	17.60	17.50					
20	16QAM	1	48	17.52	17.48	17.37	19	0			
20	16QAM	50	0	17.72	17.65	17.27					
20	16QAM	50	24	17.52	17.61	17.22					
20	16QAM	50	50	17.37	17.56	17.27					
20	16QAM	100	0	17.63	17.62	17.36	19	0			
20	16QAM	100	1	17.57	17.57	17.29					
20	64QAM	1	48	17.56	17.51	17.30					
20	64QAM	1	96	17.52	17.57	17.38					
20	64QAM	50	0	17.65	17.52	17.37	19	0			
20	64QAM	50	24	17.24	17.51	17.19					
20	64QAM	50	50	17.29	17.53	17.20					
20	64QAM	100	0	17.61	17.58	17.35					
20	25QAM	1	0	17.59	17.67	17.41	19	0			
20	25QAM	1	96	17.58	17.51	17.37					
20	25QAM	50	24	17.24	17.44	17.20					
20	25QAM	50	50	17.23	17.55	17.20					
20	25QAM	100	0	17.65	17.52	17.35	19	0			
Channel											
Frequency (MHz)				39765 <th>39805<th>39815<td></td><td></td><td></td></th></th>	39805 <th>39815<td></td><td></td><td></td></th>	39815 <td></td> <td></td> <td></td>					
15	QPSK	1	0	17.59	17.66	17.43	19		0		
15	QPSK	1	37	17.57	17.49	17.33					
15	QPSK	1	74	17.59	17.46	17.51					
15	QPSK	36	0	17.34	17.51	17.19					
15	QPSK	36	20	17.37	17.58	17.28	19	0			
15	QPSK	75	0	17.53	17.58	17.35					
15	16QAM	1	0	17.46	17.50	17.48					
15	16QAM	1	37	17.51	17.50	17.27					
15	16QAM	1	74	17.51	17.30	17.27	19	0			
15	16QAM	36	0	17.62	17.56	17.21					
15	16QAM	36	20	17.13	17.41	17.09					
15	16QAM	36	39	17.34	17.53	17.15					
15	16QAM	75	0	17.53	17.41	17.32	19	0			
15	16QAM	75	1	17.46	17.38	17.34					
15	64QAM	1	0	17.62	17.47	17.37					
15	64QAM	1	37	17.48	17.41	17.22					
15	64QAM	1	74	17.45	17.37	17.34	19	0			
15	64QAM	36	0	17.59	17.49	17.29					
15	64QAM	36	20	17.10	17.41	17.09					
15	64QAM	36	20	17.52	17.49	17.25					
15	64QAM	75	0	17.56	17.49	17.30	19	0			
15	25QAM	1	0	17.49	17.56	17.39					
15	25QAM	1	37	17.49	17.54	17.22					
15	25QAM	1	74	17.56	17.49	17.14					
15	25QAM	36	0	17.58	17.46	17.14	19	0			
15	25QAM	36	20	17.12	17.49	17.11					
15	25QAM	36	39	17.19	17.52	17.17					
15	25QAM	75	0	17.51	17.47	17.25					
Channel											
Frequency (MHz)				39760 <th>39800<th>39820<td></td><td></td><td></td></th></th>	39800 <th>39820<td></td><td></td><td></td></th>	39820 <td></td> <td></td> <td></td>					
10	QPSK	1	0	17.59	17.66	17.43	19	0			
10	QPSK	1	25	17.55	17.47	17.39					
10	QPSK	1	49	17.49	17.38	17.42					
10	QPSK	25	0	17.55	17.66	17.44					
10	QPSK	25	12	17.39	17.51	17.31	19	0			
10	QPSK	25	25	17.37	17.56	17.25					
10	QPSK	50	0	17.43	17.49	17.45					
10	16QAM	1	0	17.43	17.49	17.45					
10	16QAM	1	25	17.48	17.50	17.31	19	0			
10	16QAM	1	49	17.41	17.26	17.29					
10	16QAM	25	0	17.61	17.60	17.38					
10	16QAM	25	12	17.17	17.46	17.18					
10	16QAM	25	12	17.17	17.48	17.18	19	0			
10	16QAM	50	0	17.50	17.54	17.34					
10	16QAM	50	12	17.14	17.48	17.16					
10	16QAM	1	48	17.41	17.49	17.29					
10	16QAM	1	0	17.60	17.48	17.45	19	0			
10	16QAM	1	25	17.50	17.44	17.28					
10	16QAM	25	12	17.49	17.49	17.24					
10	16QAM	25	0	17.54	17.48	17.34					
10	16QAM	25	12	17.14	17.48	17.16	19	0			
10	16QAM	25	12	17.14	17.48	17.14					
10	16QAM	50	0	17.56	17.48	17.29					
10	16QAM	50	12	17.14	17.48	17.29					
10	25QAM	1	25	17.57	17.52	17.22	19	0			
10	25QAM	1	49	17.51	17.42	17.22					
10	25QAM	25	0	17.64	17.54	17.34					
10	25QAM	25	12	17.17	17.41	17.22					
10	25QAM	25	25	17.19	17.47	17.18	19	0			
10	25QAM	50	0	17.57	17.59	17.28					
Channel											
Frequency (MHz)				39775 <th>39805<th>39825<td></td><td></td><td></td></th></th>	39805 <th>39825<td></td><td></td><td></td></th>	39825 <td></td> <td></td> <td></td>					
5	QPSK	1	0	17.53	17.59	17.52	19	0			
5	QPSK	1	12	17.46	17.50	17.31					
5	QPSK	1	24	17.59	17.51	17.41					
5	QPSK	12	0	17.61	17.66	17.35					
5	QPSK	12	7	17.36	17.49	17.16	19	0			
5	QPSK	12	13	17.53	17.56	17.21					
5	QPSK	25	0	17.58	17.59	17.31					
5	16QAM	1	0	17.49	17.54	17.41					
5	16QAM	1	12	17.58	17.53	17.29	19	0			
5	16QAM	1	24	17.53	17.24	17.31					
5	16QAM	12	0	17.60	17.58	17.15					
5	16QAM	12	7	17.15	17.54	17.18					
5	16QAM	12	13	17.53	17.49	17.17	19	0			
5	16QAM	25	0	17.54	17.42	17.35					
5	16QAM	25	0	17.55	17.47	17.37					
5	16QAM	12	13	17.11	17.44	17.13					
5	64QAM	1	0	17.57	17.54	17.28	19	0			
5	64QAM	1	12	17.51	17.46	17.27					
5	64QAM	1	24	17.49	17.49	17.27					
5	64QAM	12	13	17.18	17.49	17.15					
5	64QAM	25	0	17.53	17.49	17.25	19	0			
5	64QAM	25	0	17.54	17.47	17.25					
5	25QAM	1	12	17.56	17.58	17.21					
5	25QAM	1	24	17.53	17.27	17.31					
5	25QAM	12	0	17.64	17.54	17.34	19	0			
5	25QAM	12	7	17.12	17.32	17.11					
5	25QAM	12	13	17.23	17.46	17.19					
5	25QAM	25	0	17.63	17.60	17.27					



Band 48_FCC Ant3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Meds Ch / Freq	Power High Meds Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MFR (dB)	
Channel				56540	56630	56760	56850	Turn-up time (dBm)	MFR (dB)	
Frequency (MHz)				56540	56630	56760	56850			
20	QPSK	1	0	11.87	11.99	11.86	11.98	13.1	0	
20	QPSK	1	49	11.85	11.82	11.88	11.86			
20	QPSK	1	49	11.77	11.89	11.80	11.81			
20	QPSK	50	0	11.70	11.82	11.82	11.87			
20	QPSK	50	24	11.74	11.81	11.85	11.86	13.1	0	
20	QPSK	50	50	11.70	11.86	11.85	11.82			
20	QPSK	100	0	11.76	11.90	11.76	11.81			
20	16QAM	1	0	11.82	11.87	11.81	11.84	13.1	0	
20	16QAM	1	49	11.72	11.80	11.77	11.80			
20	16QAM	1	99	11.67	11.81	11.88	11.78			
20	16QAM	50	0	11.82	11.79	11.72	11.83			
20	16QAM	50	24	11.70	11.70	11.71	11.71	13.1	0	
20	16QAM	50	50	11.74	11.88	11.79	11.69			
20	64QAM	100	0	11.65	11.85	11.72	11.78			
20	64QAM	1	0	11.75	11.85	11.79	11.57			
20	64QAM	1	49	11.71	11.85	11.79	11.81	13.1	0	
20	64QAM	1	99	11.66	11.81	11.77	11.75			
20	64QAM	50	0	11.63	11.76	11.77	11.63			
20	64QAM	50	24	11.64	11.74	11.77	11.71			
20	64QAM	50	50	11.69	11.89	11.77	11.70	13.1	0	
20	64QAM	100	0	11.66	11.87	11.86	11.76			
20	256QAM	1	0	11.85	11.91	11.81	11.80			
20	256QAM	1	49	11.89	11.86	11.75	11.82			
20	256QAM	1	99	11.69	11.83	11.75	11.69	13.1	0	
20	256QAM	50	0	11.67	11.84	11.75	11.68			
20	256QAM	50	24	11.69	11.68	11.74	11.76			
20	256QAM	50	50	11.66	11.79	11.78	11.73			
20	256QAM	100	0	11.71	11.81	11.74	11.68	Turn-up time (dBm)	MFR (dB)	
Channel				56515	56620	56760	56865			
Frequency (MHz)				56515	56620	56760	56865	Turn-up time (dBm)	MFR (dB)	
15	QPSK	1	0	11.82	11.94	11.74	11.92			
15	QPSK	1	37	11.76	11.86	11.76	11.74	13.1	0	
15	QPSK	1	74	11.86	11.76	11.72	11.76			
15	QPSK	86	0	11.62	11.82	11.77	11.74			
15	QPSK	86	20	11.66	11.76	11.73	11.74	13.1	0	
15	QPSK	75	0	11.70	11.83	11.78	11.72			
15	QPSK	75	0	11.67	11.82	11.72	11.78			
15	16QAM	1	0	11.70	11.82	11.77	11.82	13.1	0	
15	16QAM	1	37	11.60	11.72	11.71	11.67			
15	16QAM	1	74	11.57	11.71	11.60	11.65			
15	16QAM	58	0	11.48	11.74	11.65	11.79			
15	16QAM	86	20	11.59	11.63	11.70	11.62	13.1	0	
15	16QAM	98	39	11.71	11.77	11.89	11.58			
15	16QAM	75	0	11.54	11.77	11.58	11.60			
15	64QAM	1	0	11.70	11.80	11.67	11.75			
15	64QAM	1	37	11.62	11.82	11.75	11.77	13.1	0	
15	64QAM	1	74	11.56	11.76	11.64	11.66			
15	64QAM	38	0	11.50	11.84	11.59	11.79			
15	64QAM	38	20	11.50	11.71	11.68	11.66	13.1	0	
15	64QAM	38	39	11.60	11.79	11.65	11.57			
15	64QAM	75	0	11.63	11.84	11.57	11.57			
15	256QAM	1	0	11.73	11.78	11.74	11.63	13.1	0	
15	256QAM	1	37	11.50	11.75	11.66	11.69			
15	256QAM	1	74	11.59	11.69	11.72	11.50			
15	256QAM	38	0	11.55	11.80	11.64	11.75			
15	256QAM	38	20	11.59	11.64	11.81	11.65	13.1	0	
15	256QAM	38	39	11.61	11.72	11.85	11.64			
15	256QAM	75	0	11.64	11.73	11.81	11.52			
Channel				56520	56615	56760	56860	Turn-up time (dBm)	MFR (dB)	
Frequency (MHz)				56520	56615	56760	56860			
10	QPSK	1	0	11.81	11.86	11.81	11.81	13.1	0	
10	QPSK	1	25	11.87	11.81	11.84	11.73			
10	QPSK	1	49	11.70	11.85	11.74	11.70			
10	QPSK	15	0	11.60	11.76	11.76	11.80			
10	QPSK	25	12	11.69	11.77	11.82	11.74	13.1	0	
10	QPSK	25	25	11.74	11.82	11.76	11.76			
10	QPSK	86	0	11.66	11.77	11.74	11.70			
10	16QAM	1	0	11.70	11.77	11.79	11.86	13.1	0	
10	16QAM	1	25	11.68	11.72	11.64	11.73			
10	16QAM	1	49	11.58	11.69	11.59	11.73			
10	16QAM	25	0	11.54	11.73	11.62	11.81			
10	16QAM	25	10	11.57	11.87	11.72	11.68	13.1	0	
10	16QAM	25	10	11.61	11.76	11.69	11.66			
10	16QAM	50	0	11.53	11.77	11.66	11.68			
10	64QAM	1	0	11.69	11.83	11.67	11.74	13.1	0	
10	64QAM	1	25	11.61	11.82	11.73	11.72			
10	64QAM	1	49	11.65	11.76	11.67	11.70			
10	64QAM	25	0	11.54	11.72	11.65	11.71			
10	64QAM	25	12	11.58	11.66	11.87	11.60	13.1	0	
10	64QAM	25	25	11.62	11.81	11.72	11.65			
10	64QAM	86	0	11.59	11.77	11.53	11.70			
10	256QAM	1	0	11.80	11.79	11.67	11.89	13.1	0	
10	256QAM	1	25	11.85	11.79	11.65	11.72			
10	256QAM	1	49	11.59	11.71	11.71	11.60			
10	256QAM	25	0	11.62	11.73	11.69	11.74			
10	256QAM	25	10	11.56	11.64	11.66	11.67	13.1	0	
10	256QAM	25	25	11.63	11.86	11.72	11.56			
10	256QAM	50	0	11.61	11.76	11.64	11.62			
Channel				56525	56620	56760	56855	Turn-up time (dBm)	MFR (dB)	
Frequency (MHz)				56525	56620	56760	56855			
5	QPSK	1	0	11.76	11.85	11.84	11.80	13.1	0	
5	QPSK	1	10	11.60	11.87	11.79	11.75			
5	QPSK	1	24	11.65	11.76	11.88	11.71			
5	QPSK	12	0	11.87	11.76	11.79	11.86			
5	QPSK	12	7	11.80	11.69	11.77	11.67	13.1	0	
5	QPSK	12	19	11.69	11.84	11.81	11.73			
5	QPSK	25	0	11.67	11.82	11.71	11.77			
5	16QAM	1	0	11.79	11.78	11.71	11.89			
5	16QAM	1	10	11.64	11.73	11.74	11.68	13.1	0	
5	16QAM	1	24	11.60	11.76	11.63	11.71			
5	16QAM	12	0	11.51	11.66	11.61	11.72			
5	16QAM	12	7	11.65	11.59	11.69	11.68			
5	16QAM	12	19	11.60	11.79	11.87	11.67	13.1	0	
5	16QAM	25	0	11.50	11.81	11.89	11.66			
5	64QAM	1	0	11.74	11.79	11.76	11.85			
5	64QAM	1	10	11.66	11.81	11.72	11.70			
5	64QAM	1	24	11.59	11.77	11.67	11.69	13.1	0	
5	64QAM	12	0	11.52	11.66	11.66	11.71			
5	64QAM	12	7	11.54	11.70	11.70	11.66			
5	64QAM	12	19	11.58	11.78	11.70	11.64			
5	64QAM	25	0	11.58	11.76	11.56	11.71	13.1	0	
5	256QAM	1	0	11.79	11.78	11.71	11.79			
5	256QAM	1	10	11.62	11.82	11.66	11.76			



Band 48_FCC Ant5														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (dB)	MFR (dB)					
Channel				36540	36630	36760	36850							
Frequency (MHz)				36615	36705	36835	36925							
20	QPSK	1	0	14.12	14.38	14.30	14.07	14.9	0					
20	QPSK	1	49	14.09	14.14	14.13	14.11							
20	QPSK	1	89	14.11	14.25	14.16	14.00							
20	QPSK	50	0	14.21	13.25	14.23	13.04							
20	QPSK	50	24	14.10	14.14	14.08	14.00	14.9	0					
20	QPSK	50	50	14.00	14.04	14.15	13.95							
20	QPSK	100	0	14.13	13.10	14.07	13.02							
20	16QAM	1	0	14.08	14.25	14.17	14.02	14.9	0					
20	16QAM	1	49	14.03	14.09	14.02	13.98							
20	16QAM	1	99	13.98	14.21	14.03	13.97							
20	16QAM	50	0	14.08	14.17	14.14	13.96							
20	16QAM	50	24	14.01	14.02	14.00	13.97	14.9	0					
20	16QAM	50	50	14.01	14.20	14.05	13.90							
20	64QAM	100	0	14.04	14.17	14.06	13.98							
20	64QAM	1	0	14.05	14.30	14.26	13.98	14.9	0					
20	64QAM	1	49	14.03	14.00	14.09	14.05							
20	64QAM	1	99	14.02	14.12	14.01	13.96							
20	64QAM	50	0	14.12	14.20	14.12	13.90							
20	64QAM	50	24	14.04	14.07	13.95	13.89	14.9	0					
20	64QAM	50	50	14.01	14.21	14.07	13.89							
20	64QAM	100	0	14.06	14.12	14.01	13.86							
20	256QAM	1	0	14.05	14.30	14.26	13.98							
20	256QAM	1	49	13.98	14.04	14.01	13.98	14.9	0					
20	256QAM	1	99	13.98	14.22	14.05	13.93							
20	256QAM	50	0	14.08	14.10	14.16	13.98							
20	256QAM	50	24	14.02	14.02	14.00	13.94							
20	256QAM	50	50	13.95	14.14	14.11	13.88	14.9	0					
20	256QAM	100	0	14.08	14.17	14.05	13.78							
Channel				36915	37005	37135	37225							
Frequency (MHz)				36990	37080	37210	37300							
15	QPSK	1	0	14.09	14.27	14.26	14.03	14.9	0					
15	QPSK	1	37	14.04	14.01	14.05	13.99							
15	QPSK	1	74	14.06	14.12	14.14	13.97							
15	QPSK	86	0	14.10	14.12	14.20	13.87							
15	QPSK	86	20	14.03	14.10	13.98	13.89	14.9	0					
15	QPSK	75	0	13.97	14.18	14.08	13.89							
15	QPSK	75	0	14.02	14.07	13.95	13.88							
15	16QAM	1	0	13.94	14.18	14.07	13.89							
15	16QAM	1	37	13.99	14.05	13.99	13.94	14.9	0					
15	16QAM	1	74	13.87	14.18	13.99	13.75							
15	16QAM	86	0	13.99	14.04	14.11	13.74							
15	16QAM	86	20	13.95	13.91	13.95	13.74							
15	16QAM	86	39	13.93	14.16	14.02	13.78	14.9	0					
15	16QAM	75	0	13.97	14.11	13.92	13.84							
15	64QAM	1	0	14.01	14.25	14.15	13.98							
15	64QAM	1	37	13.94	13.93	13.98	13.94							
15	64QAM	1	74	13.92	14.02	14.08	13.79	14.9	0					
15	64QAM	86	0	14.00	14.08	13.98	13.86							
15	64QAM	86	20	13.90	13.97	13.82	13.78							
15	64QAM	86	39	13.95	14.14	14.00	13.75							
15	64QAM	75	0	14.04	14.07	13.95	13.75	14.9	0					
15	256QAM	1	0	14.04	14.24	14.19	13.84							
15	256QAM	1	37	13.94	13.98	13.87	13.93							
15	256QAM	1	74	13.88	14.15	13.91	13.88							
15	256QAM	86	0	14.03	14.07	14.08	13.76	14.9	0					
15	256QAM	86	20	13.92	13.94	13.87	13.81							
15	256QAM	86	39	13.87	14.10	14.08	13.85							
15	256QAM	75	0	13.96	14.10	13.99	13.77							
Channel				37230	37310	37440	37530							
Frequency (MHz)				37305	37395	37525	37615							
10	QPSK	1	0	14.04	14.29	14.17	13.98	14.9	0					
10	QPSK	1	25	14.00	14.09	14.04	13.98							
10	QPSK	1	49	14.00	14.21	14.10	13.95							
10	QPSK	16	0	14.12	14.12	14.16	13.87							
10	QPSK	25	12	14.04	14.01	13.95	13.94	14.9	0					
10	QPSK	25	25	13.95	14.22	14.09	13.84							
10	QPSK	80	0	14.04	14.17	14.02	13.86							
10	16QAM	1	0	13.98	14.18	14.14	13.96							
10	16QAM	1	25	13.97	14.07	13.96	13.90	14.9	0					
10	16QAM	1	49	13.89	14.14	13.92	13.74							
10	16QAM	25	0	14.00	14.10	14.11	13.80							
10	16QAM	25	12	13.95	13.89	13.96	13.82							
10	16QAM	25	12	13.95	14.08	13.95	13.80	14.9	0					
10	16QAM	50	0	14.00	14.14	13.85	13.83							
10	64QAM	1	0	13.94	14.27	14.20	14.01							
10	64QAM	1	25	13.95	13.90	14.05	13.89							
10	64QAM	1	49	13.94	14.09	14.06	13.88	14.9	0					
10	64QAM	25	0	14.04	14.17	13.99	13.75							
10	64QAM	25	12	13.98	13.97	13.90	13.79							
10	64QAM	25	25	13.92	14.14	13.96	13.82							
10	64QAM	80	0	13.95	14.02	13.97	13.89	14.9	0					
10	256QAM	1	0	14.02	14.23	14.23	13.89							
10	256QAM	1	25	13.85	13.90	13.90	13.81							
10	256QAM	1	49	13.85	14.18	14.01	13.87							
10	256QAM	25	0	13.86	14.10	14.11	13.82	14.9	0					
10	256QAM	25	12	13.97	13.99	13.90	13.85							
10	256QAM	25	25	13.92	14.08	14.00	13.75							
10	256QAM	50	0	14.00	14.14	13.92	13.75							
Channel				38025	38105	38235	38325							
Frequency (MHz)				38050	38140	38270	38360							
5	QPSK	1	0	14.02	14.32	14.17	13.97	14.9	0					
5	QPSK	1	12	13.95	14.08	14.02	14.01							
5	QPSK	1	24	14.02	14.17	14.05	13.99							
5	QPSK	12	0	14.14	14.10	14.21	13.87							
5	QPSK	12	7	13.97	14.08	13.98	13.97	14.9	0					
5	QPSK	12	13	13.94	14.17	14.10	13.84							
5	QPSK	25	0	14.09	14.08	13.94	13.84							
5	16QAM	1	0	14.02	14.20	14.10	13.95							
5	16QAM	1	12	13.92	13.97	13.91	13.86	14.9	0					
5	16QAM	1	24	13.86	14.08	13.90	13.77							
5	16QAM	12	0	13.95	14.04	14.05	13.75							
5	16QAM	12	7	13.94	13.93	13.93	13.83							
5	16QAM	12	13	13.95	14.18	13.95	13.80							

Reduced Power Mode for Main PA DS16

		GSM 850 Amd					GSM 850 Amd		
		Base Average Power (dBm)					Frame Average Power (dBm)		
Tx Channel		15A	15B	25.1	Tx Channel		15B	16B	25.1
Frequency (MHz)		824.2	835.4	848.8	Frequency (MHz)		824.2	835.4	848.8
GSM 1 Tx slot		20.08	23.03	23.08	GSM 1 Tx slot		20.08	24.81	23.08
GPRS 1 Tx slot		23.02	23.04	23.08	GPRS 1 Tx slot		24.02	24.04	23.08
EDGE 1 Tx slot		25.61	25.63	25.69	EDGE 1 Tx slot		23.61	23.63	23.69
GPRS 3 Tx slots		25.25	25.32	25.36	GPRS 3 Tx slots		23.94	23.97	23.99
EDGE 3 Tx slots		26.40	26.47	26.43	EDGE 3 Tx slots		23.40	23.47	23.43
EDGE 2 Tx slots		25.51	25.54	25.49	EDGE 2 Tx slots		18.51	18.54	17.50
EDGE 2 Tx slots		23.92	23.92	23.88	EDGE 2 Tx slots		17.90	17.92	17.88
EDGE 3 Tx slots		25.67	25.69	25.61	EDGE 3 Tx slots		18.31	18.31	18.24
EDGE 4 Tx slots		25.98	25.91	25.93	EDGE 4 Tx slots		17.85	17.81	18.30

		GSM 1900 Amd					GSM 1900 Amd		
		Base Average Power (dBm)					Frame Average Power (dBm)		
Tx Channel		1851.2	1855	1859.8	Tx Channel		1851.2	1855	1859.8
Frequency (MHz)		1851.2	1855	1859.8	Frequency (MHz)		1851.2	1855	1859.8
GSM 1 Tx slot		20.08	20.05	20.43	GSM 1 Tx slot		20.38	20.62	20.43
GPRS 1 Tx slot		25.63	25.65	25.45	GPRS 1 Tx slot		20.63	20.65	20.45
GPRS 3 Tx slots		27.51	27.58	27.33	GPRS 3 Tx slots		21.51	21.53	21.33
EDGE 3 Tx slots		25.35	25.31	25.88	EDGE 3 Tx slots		21.00	21.05	21.70
EDGE 2 Tx slots		23.87	23.39	23.52	EDGE 2 Tx slots		20.67	20.79	20.52
EDGE 2 Tx slot		22.59	22.52	22.49	EDGE 2 Tx slot		18.58	18.52	18.54
EDGE 2 Tx slot		23.08	23.67	23.35	EDGE 2 Tx slot		17.80	17.87	17.35
EDGE 3 Tx slots		25.38	25.45	25.15	EDGE 3 Tx slots		18.10	18.19	17.89
EDGE 4 Tx slots		25.27	25.33	25.09	EDGE 4 Tx slots		17.27	17.33	18.30

		WCDMA R Amd			WCDMA R Amd			WCDMA V Amd		
		Base					Base			Tx Power (dBm)
Tx Channel		5002	5005	5008	Tx Channel		5112	5115	5118	
Frequency (MHz)		5002	5005	5008	Frequency (MHz)		5112	5115	5118	Tx Power (dBm)
SCPP RefB		20.04	20.73	20.75	SCPP RefB		22.45	22.82	22.48	24.00
SCPP RefB		22.42	22.52	22.72	SCPP RefB		22.77	22.85	22.87	
SCPP RefB		19.78	19.85	19.77	SCPP RefB		21.83	21.89	21.80	23.00
SCPP RefB		19.61	19.70	19.63	SCPP RefB		21.58	21.75	21.79	
SCPP RefB		19.77	19.41	19.51	SCPP RefB		21.20	21.41	21.51	22.50
SCPP RefB		19.37	19.49	19.32	SCPP RefB		21.20	21.51	21.31	
SCPP RefB		20.13	20.05	19.78	SCPP RefB		21.06	21.07	21.76	23.00
SCPP RefB		20.78	20.07	21.38	SCPP RefB		22.05	21.77	22.03	
SCPP RefB		19.46	19.37	19.48	SCPP RefB		21.48	21.34	21.57	22.50
SCPP RefB		19.28	19.44	19.41	SCPP RefB		21.34	21.49	21.38	
SCPP RefB		20.03	19.71	19.77	SCPP RefB		22.02	21.85	21.82	23.00
SCPP RefB		17.45	17.52	17.73	SCPP RefB		19.81	19.59	19.68	
SCPP RefB		18.85	18.83	18.74	SCPP RefB		20.78	21.03	20.68	22.25
SCPP RefB		17.15	17.25	18.06	SCPP RefB		18.57	18.85	18.09	
SCPP RefB		19.88	20.59	19.93	SCPP RefB		21.20	22.04	21.80	23.45
SCPP RefB					SCPP RefB					



Band 2 Ant0									
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Mod Ch./F.Freq.	Power Hsp Ch./F.Freq.	Power Mod Ch./F.Freq.	Turn-up Time (sec)	MPR (dB)	
Channel									
Frequency [MHz]									
20	QPSK	1	0	23.33	23.40	23.29			
20	QPSK	1	49	23.25	23.12	23.01	24	0	
20	QPSK	1	99	23.24	23.30	23.21			
20	QPSK	50	0	23.28	23.32	23.26			
20	QPSK	50	24	23.20	23.28	23.19			
20	QPSK	50	50	23.25	23.23	23.24			
20	QPSK	100	0	23.08	23.27	23.21			
20	QPSK	100	24	23.26	23.23	23.21			
20	16QAM	1	49	23.38	23.21	23.13	24	0	
20	16QAM	1	99	23.19	23.16	23.14			
20	16QAM	50	0	23.73	23.74	23.66			
20	16QAM	50	24	23.53	22.89	22.80	23.5	0.5	
20	16QAM	50	50	23.51	22.74	22.70			
20	16QAM	100	0	22.73	22.74	22.66			
20	64QAM	1	0	22.77	22.70	22.62			
20	64QAM	1	49	22.68	22.66	22.58			
20	64QAM	1	99	22.71	22.60	22.53			
20	64QAM	50	0	21.55	21.76	21.72			
20	64QAM	50	24	21.56	21.76	21.70			
20	64QAM	50	50	21.53	21.60	21.64			
20	64QAM	100	0	21.38	21.71	21.65			
20	256QAM	1	49	19.89	19.80	19.72	20.5	3.5	
20	256QAM	1	99	19.92	19.81	19.73			
20	256QAM	50	0	19.86	19.80	19.76			
20	256QAM	50	24	19.58	19.70	19.66			
20	256QAM	50	50	19.56	19.78	19.73			
20	256QAM	100	0	19.67	19.76	19.73			
Channel									
Frequency [MHz]									
15	QPSK	1	0	23.26	23.36	23.21			
15	QPSK	1	24	23.27	23.36	23.22	24	0	
15	QPSK	1	74	23.14	23.28	23.18			
15	QPSK	36	0	23.23	23.28	23.19			
15	QPSK	36	24	23.14	23.31	23.14			
15	QPSK	36	39	23.21	23.15	23.15			
15	QPSK	75	0	23.03	23.19	23.02			
15	16QAM	1	37	23.18	23.12	23.12			
15	16QAM	1	37	22.89	23.13	23.08	24	0	
15	16QAM	36	0	22.85	22.96	22.87			
15	16QAM	36	24	22.93	22.73	22.66			
15	16QAM	36	20	22.50	22.66	22.57	23.5	0.5	
15	16QAM	75	0	22.67	22.70	22.58			
15	64QAM	1	0	22.75	22.61	22.57			
15	64QAM	1	39	22.73	22.69	22.56			
15	64QAM	1	74	22.53	22.52	22.49			
15	64QAM	36	0	21.52	21.73	21.66			
15	64QAM	36	24	21.56	21.75	21.68			
15	64QAM	36	39	21.44	21.65	21.58			
15	64QAM	75	0	21.34	21.63	21.58			
15	256QAM	1	37	19.84	19.70	19.65	20.5	3.5	
15	256QAM	1	74	19.86	19.71	19.64			
15	256QAM	36	0	19.82	19.71	19.68			
15	256QAM	36	24	19.54	19.58	19.53			
15	256QAM	36	39	19.56	19.76	19.64			
15	256QAM	75	0	19.43	19.71	19.67			
Channel									
Frequency [MHz]									
15	QPSK	1	0	23.23	23.33	23.18			
15	QPSK	1	25	23.15	23.29	23.17	24	0	
15	QPSK	1	49	23.18	23.23	23.13			
15	QPSK	1	99	23.27	23.32	23.23			
15	QPSK	25	13	23.17	23.24	23.15			
15	QPSK	25	25	23.19	23.13	23.20			
15	QPSK	100	1	23.20	23.17	23.18			
15	16QAM	1	0	23.20	23.17	23.18			
15	16QAM	1	25	22.83	23.19	23.08	24	0	
15	16QAM	1	49	23.07	23.10	23.09			
15	16QAM	25	0	22.56	22.73	22.70			
15	16QAM	25	12	22.63	22.68	22.58			
15	16QAM	25	12	22.65	22.68	22.58	23.5	0.5	
15	16QAM	50	0	22.64	22.70	22.61			
15	16QAM	50	0	22.68	22.64	22.59			
15	64QAM	1	0	22.63	22.59	22.56			
15	64QAM	1	49	22.62	22.57	22.43			
15	64QAM	25	0	21.56	21.72	21.63			
15	64QAM	25	12	21.60	21.68	21.62			
15	64QAM	25	25	21.45	21.63	21.56			
15	64QAM	50	0	21.31	21.67	21.56			
15	256QAM	1	25	19.87	19.81	19.76	20.5	3.5	
15	256QAM	1	25	19.88	19.74	19.66			
15	256QAM	25	12	19.58	19.70	19.64			
15	256QAM	25	12	19.50	19.61	19.60			
15	256QAM	25	25	19.53	19.69	19.60			
15	256QAM	50	0	19.41	19.67	19.59			
Channel									
Frequency [MHz]									
3	QPSK	1	0	23.25	23.30	23.22			
3	QPSK	1	8	23.21	23.26	23.19	24	0	
3	QPSK	1	14	23.15	23.27	23.16			
3	QPSK	8	0	23.18	23.21	23.18			
3	QPSK	8	4	23.15	23.18	23.15			
3	QPSK	8	7	23.16	23.20	23.20			
3	QPSK	16	0	23.02	23.24	23.18			
3	16QAM	1	0	23.22	23.16	23.15			
3	16QAM	1	8	22.88	23.17	23.07	24	0	
3	16QAM	1	11	23.11	23.11	23.02			
3	16QAM	8	0	22.52	22.67	22.61			
3	16QAM	8	4	22.56	22.64	22.51			
3	16QAM	8	7	22.54	22.71	22.62			
3	16QAM	16	0	22.70	22.68	22.56			
3	16QAM	1	0	22.70	22.64	22.52			
3	64QAM	1	0	22.63	22.52	22.35			
3	64QAM	1	14	22.65	22.58	22.50			
3	64QAM	8	0	21.52	21.78	21.69			
3	64QAM	8	4	21.48	21.68	21.67			
3	64QAM	8	7	21.48	21.66	21.62			
3	256QAM	1	0	19.94	19.83	19.79	20.5	3.5	
3	256QAM	1	8	19.91	19.77	19.71			
3	256QAM	8	0	19.86	19.76	19.72			
3	256QAM	8	4	19.55	19.68	19.60			
3	256QAM	8	7	19.52	19.74	19.71			
3	256QAM	16	0	19.43	19.69	19.63			
Channel									
Frequency [MHz]									
1.4	QPSK	1	0	23.25	23.34	23.24			
1.4	QPSK	1	3	23.21	23.26	23.15			
1.4	QPSK	1	5	23.19	23.25	23.13			
1.4	QPSK	3	0	23.25	23.28	23.21	24	0	
1.4	QPSK	3	1	23.16	23.20	23.12			
1.4	QPSK	3	3	23.19	23.20	23.20			
1.4	QPSK	6	0	23.03	23.16	23.16			
1.4	16QAM	1	0	23.24	23.20	23.15			
1.4	16QAM	1	3	23.13	23.15	23.08			
1.4	16QAM	1	0	23.13	23.15	23.08	24	0	
1.4	16QAM	3	0	23.21	22.90	22.56			
1.4	16QAM	3	3	22.76	22.71	22.66			
1.4	16QAM	3	10	22.18	22.68	22.62	23.5	0.8	
1.4	16QAM	6	0	22.24	22.60	22.66			
1.4	16QAM	6	3	22.52	22.62	22.65			
1.4	64QAM	1	0	21.53	21.68	21.65	23.5	0.5	
1.4	64QAM	1	1	21.56	21.60	21.61			
1.4	64QAM	1	1	21.32	21.73	21.66			
1.4	64QAM	3	0	19.37	19.79	19.74			
1.4	256QAM	1	0	19.33	19.71	19.66			
1.4	256QAM	1	5	19.37	19.73	19.68			
1.4	256QAM	3	0	19.37	19.74	19.67			
1.4	256QAM	3	1	19.52	19.66	19.60			
1.4	256QAM	3	3	19.51	19.71	19.65			



Band 12 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mod Ch / Freq	Power High Ch / Freq	Tune-up Intvl (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.59	22.64	22.52			
10	QPSK	1	25	22.53	22.54	22.43			
10	QPSK	1	49	22.54	22.61	22.43	24	0	
10	QPSK	25	0	22.55	22.65	22.49			
10	QPSK	25	12	22.48	22.49	22.48			
10	QPSK	25	25	22.47	22.59	22.41	24	0	
10	QPSK	50	0	22.47	22.54	22.44			
10	16QAM	1	0	22.45	22.49	22.46			
10	16QAM	1	25	22.40	22.42	22.35	24	0	
10	16QAM	1	49	22.38	22.42	22.36			
10	16QAM	25	0	21.82	21.89	21.82	23.5	0.5	
10	16QAM	25	12	21.86	21.79	21.71			
10	16QAM	25	25	21.73	21.81	21.76			
10	16QAM	50	0	21.76	21.83	21.73			
10	64QAM	1	0	21.85	21.90	21.87	23.5	0.5	
10	64QAM	1	25	21.82	21.84	21.78			
10	64QAM	1	49	21.83	21.86	21.80			
10	64QAM	25	0	20.78	20.80	20.72			
10	64QAM	25	12	20.87	20.72	20.69	22.5	1.5	
10	64QAM	25	25	20.69	20.75	20.66			
10	64QAM	50	0	20.71	20.77	20.68			
10	256QAM	1	25	18.73	18.83	18.77	20.5	3.5	
10	256QAM	1	49	18.73	18.83	18.78			
10	256QAM	25	0	18.75	18.82	18.77			
10	256QAM	25	12	18.70	18.74	18.70	20.5	3.5	
10	256QAM	25	25	18.65	18.72	18.66			
10	256QAM	50	0	20.65	20.66	20.65			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.52	22.55	22.48			
5	QPSK	1	12	22.47	22.49	22.38	24	0	
5	QPSK	1	24	22.50	22.52	22.38			
5	QPSK	12	0	22.52	22.54	22.46			
5	QPSK	12	12	22.48	22.43	22.41	24	0	
5	QPSK	12	13	22.44	22.42	22.35			
5	QPSK	25	0	22.41	22.49	22.42			
5	16QAM	1	0	22.41	22.45	22.38			
5	16QAM	1	12	22.34	22.39	22.30	24	0	
5	16QAM	1	24	22.32	22.38	22.31			
5	16QAM	12	0	21.78	21.80	21.76	23.5	0.5	
5	16QAM	12	7	21.78	21.79	21.68			
5	16QAM	12	13	21.64	21.68	21.73			
5	64QAM	1	0	21.70	21.78	21.64			
5	64QAM	1	6	21.78	21.86	21.78	23.5	0.5	
5	64QAM	1	12	21.87	21.87	21.80			
5	64QAM	1	24	21.78	21.79	21.61			
5	64QAM	12	0	20.74	20.71	20.62			
5	64QAM	12	7	20.84	20.77	20.68	22.5	1.5	
5	64QAM	12	13	20.05	20.73	20.53			
5	64QAM	25	0	20.68	20.67	20.63			
5	256QAM	1	0	18.74	18.75	18.74			
5	256QAM	1	12	18.69	18.87	18.73	20.5	3.5	
5	256QAM	1	24	18.66	18.77	18.70			
5	256QAM	12	0	18.72	18.75	18.68			
5	256QAM	12	7	18.61	18.71	18.68	20.5	3.5	
5	256QAM	12	13	18.61	18.64	18.57			
5	256QAM	25	0	20.65	20.66	20.66			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.59	22.58	22.48			
3	QPSK	1	8	22.50	22.48	22.39	24	0	
3	QPSK	1	14	22.51	22.57	22.41			
3	QPSK	1	8	22.47	22.50	22.40			
3	QPSK	8	0	22.43	22.44	22.42	24	0	
3	QPSK	8	7	22.44	22.48	22.38			
3	16QAM	1	0	22.44	22.48	22.38			
3	16QAM	1	0	22.39	22.44	22.43			
3	16QAM	1	8	22.38	22.38	22.25	24	0	
3	16QAM	1	14	22.31	22.38	22.35			
3	16QAM	8	0	21.79	21.84	21.80			
3	16QAM	8	4	21.89	21.87	21.65	23.5	0.5	
3	16QAM	8	7	21.72	21.73	21.60			
3	64QAM	1	0	21.87	21.80	21.69			
3	64QAM	1	0	21.80	21.84	21.81	23.5	0.5	
3	64QAM	1	8	21.72	21.82	21.74			
3	64QAM	1	14	21.78	21.81	21.79			
3	64QAM	8	0	20.71	20.77	20.69			
3	64QAM	8	4	20.67	20.65	20.65	22.5	1.5	
3	64QAM	8	7	20.61	20.67	20.61			
3	64QAM	15	0	20.69	20.68	20.66			
3	256QAM	1	0	18.71	18.80	18.75			
3	256QAM	1	8	18.65	18.70	18.67	20.5	3.5	
3	256QAM	1	14	18.69	18.74	18.72			
3	256QAM	8	0	18.76	18.75	18.75			
3	256QAM	8	4	18.65	18.71	18.63	20.5	3.5	
3	256QAM	8	7	18.56	18.64	18.50			
3	256QAM	15	0	18.62	18.75	18.67			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.53	22.55	22.48			
1.4	QPSK	1	3	22.46	22.49	22.40	24	0	
1.4	QPSK	1	5	22.48	22.56	22.39			
1.4	QPSK	3	0	22.45	22.46	22.36			
1.4	QPSK	3	1	22.42	22.42	22.39			
1.4	QPSK	3	3	22.41	22.41	22.39	24	0	
1.4	QPSK	6	0	22.43	22.47	22.37			
1.4	16QAM	1	0	22.42	22.41	22.39			
1.4	16QAM	1	3	22.33	22.35	22.23	24	0	
1.4	16QAM	1	5	22.27	22.38	22.26			
1.4	16QAM	3	0	22.43	22.43	22.36			
1.4	16QAM	3	1	22.38	22.38	22.27			
1.4	16QAM	3	3	22.31	22.39	22.29	23.5	0.5	
1.4	16QAM	6	0	21.72	21.78	21.69			
1.4	64QAM	1	0	21.79	21.84	21.84			
1.4	64QAM	1	3	21.72	21.77	21.69	23.5	0.5	
1.4	64QAM	1	5	21.77	21.82	21.77			
1.4	64QAM	3	0	21.75	21.77	21.70			
1.4	64QAM	3	3	21.78	21.81	21.81			
1.4	64QAM	6	0	20.62	20.69	20.62	22.5	1.5	
1.4	256QAM	1	0	18.72	18.86	18.78			
1.4	256QAM	1	3	18.71	18.70	18.72			
1.4	256QAM	1	5	18.71	18.73	18.76	20.5	3.5	
1.4	256QAM	3	0	18.77	18.73	18.69			
1.4	256QAM	3	1	18.67	18.71	18.67			
1.4	256QAM	1	3	18.59	18.66	18.56	20.5	3.5	
1.4	256QAM	6	0	18.65	18.75	18.68			

Band 13 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mod Ch / Freq	Power High Ch / Freq	Tune-up Intvl (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0		22.76				
10	QPSK	1	25		22.71		23.7	0	
10	QPSK	1	49		22.68				
10	QPSK	25	0		22.71				
10	QPSK	25	12		22.64		23.7	0	
10	QPSK	25	25		22.62				
10	QPSK	50	0		22.63				
10	16QAM	1	0		22.55				
10	16QAM	1	25		22.48		23.7	0	
10	16QAM	1	49		22.53				
10	16QAM	25	0		22.34				
10	16QAM	25	12		22.50		23.5	0.2	
10	16QAM	25	25		22.45				
10	16QAM	50	0		22.28				
10	64QAM	1	0		22.11				
10	64QAM	1	25		22.38		23.5	0.2	
10	64QAM	1	49		22.53				
10	64QAM	25	0		21.40				
10	64QAM	25	12		21.38		22.5	1.2	
10	64QAM	25	25		21.30				
10	64QAM	50	0		21.34				
10	256QAM	1	25		19.11		20.5	3.2	
10	256QAM	1	49		19.20				
10	256QAM	1	73		19.51				
10	256QAM	25	0		19.56				
10	256QAM	25	12		19.51		20.5	3.2	
10	256QAM	25	25		19.48				
10	256QAM	50	0		19.44				
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.68	22.70	22.64			
5	QPSK	1	12	22.57	22.61	22.52	23.7	0	
5	QPSK	1	24	22.60	22.63	22.58			
5	QPSK	12	0	22.59	22.67	22.60			
5	QPSK	12	7	22.57	22.61	22.52	23.7	0	
5	QPSK	12	13	22.46	22.55	22.49			
5	QPSK	25	0	22.52	22.59	22.50			
5	16QAM	1	0	22.43	22.46	22.43			
5	16QAM	1	12	22.41	22.45	22.39	23.7	0	
5	16QAM	1	24	22.39	22.46	22.42			
5	16QAM	12	0	22.18	22.25	22.16			
5	16QAM	12	7	22.17	22.24	22.13	23.5	0.2	
5	16QAM	12	13	22.31	22.41	22.37			
5	16QAM	25	0	22.20	22.23	22.16			
5	16QAM	25	7	22.12	22.22	22.10	23.5	0.2	
5	64QAM	1	12	22.26	22.35	22.27	23.5	0.2	
5	64QAM	1	24	22.41	22.47	22.38			
5	64QAM	1	36	21.41	21.37	21.29			
5	64QAM	12	7	21.30	21.31	21.27	22.5	1.2	
5	256QAM	12	13	21.16	21.21	21.16			
5	256QAM	1	1	21.22	21.30	21.20			
5	256QAM	1	0	18.99	19.05	19.01			
5	256QAM	1	12	19.14	19.16	19.10	20.5	3.2	
5	256QAM	12	0	19.42	19.46	19.43			
5	256QAM	12	0	19.39	19.49	19.45			
5	256QAM	12	7	19.35	19.41	19.39			
5	256QAM	12	13	19.41	19.45	19.40	20.5	3.2	
5	256QAM	12	0	19.25	19.35	19.27			



Band 25 Ant0													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MPE (dB)					
Channel													
1800 1800 1800													
20	QPSK	1	0	23.35	23.45	23.41	24	0					
20	QPSK	1	49	23.31	23.36	23.33							
20	QPSK	1	99	23.28	23.43	23.38							
20	QPSK	50	0	23.31	23.37	23.26							
20	QPSK	50	24	23.22	23.34	23.27	24	0					
20	QPSK	50	50	23.23	23.29	23.19							
20	QPSK	100	0	23.28	23.32	23.22							
20	16QAM	1	0	23.21	23.24	23.21							
20	16QAM	1	49	23.15	23.20	23.18	24	0					
20	16QAM	1	99	23.15	23.22	23.14							
20	16QAM	50	0	22.84	22.72	22.82							
20	16QAM	50	24	22.87	22.69	22.87							
20	16QAM	100	0	22.81	22.69	22.82	23.5	0.5					
20	16QAM	100	50	22.58	22.57	22.58							
20	16QAM	1	0	22.53	22.52	22.59							
20	16QAM	1	49	22.56	22.60	22.53							
20	16QAM	50	0	21.53	21.63	21.57	22.5	1.5					
20	16QAM	50	24	21.51	21.60	21.56							
20	16QAM	50	50	21.52	21.61	21.55							
20	16QAM	100	0	21.48	21.57	21.51							
20	256QAM	1	49	19.68	19.71	19.64	20.5	3.5					
20	256QAM	1	49	19.68	19.68	19.62							
20	256QAM	1	99	19.64	19.67	19.65							
20	256QAM	50	24	19.51	19.59	19.55							
20	256QAM	50	24	19.51	19.59	19.55	20.5	3.5					
20	256QAM	50	50	19.45	19.54	19.50							
20	256QAM	100	0	19.42	19.50	19.43							
20	256QAM	100	0	19.42	19.50	19.43							
Channel													
1817.5 1800 1907.5													
15	QPSK	1	0	23.33	23.36	23.33	24	0					
15	QPSK	1	37	23.24	23.31	23.24							
15	QPSK	1	74	23.22	23.37	23.33							
15	QPSK	36	0	23.26	23.33	23.24							
15	QPSK	36	20	23.18	23.26	23.16	24	0					
15	QPSK	36	36	23.17	23.21	23.10							
15	QPSK	75	0	23.24	23.28	23.13							
15	16QAM	1	0	23.11	23.14	23.14							
15	16QAM	1	37	23.07	23.15	23.10	24	0					
15	16QAM	1	74	23.06	23.17	23.04							
15	16QAM	36	0	22.82	22.70	22.55							
15	16QAM	36	20	22.82	22.83	22.63							
15	16QAM	36	36	22.54	22.58	22.58	23.5	0.5					
15	16QAM	75	0	22.55	22.58	22.53							
15	16QAM	1	0	22.47	22.57	22.50							
15	16QAM	1	37	22.48	22.56	22.50							
15	16QAM	1	74	22.43	22.52	22.52	22.5	1.5					
15	16QAM	36	0	21.49	21.60	21.51							
15	16QAM	36	20	21.44	21.54	21.48							
15	16QAM	36	36	21.42	21.57	21.53							
15	16QAM	75	0	21.42	21.54	21.42	20.5	3.5					
15	256QAM	1	49	19.63	19.67	19.62							
15	256QAM	1	37	19.51	19.56	19.56							
15	256QAM	1	74	19.61	19.63	19.62							
15	256QAM	36	0	19.52	19.62	19.49	20.5	3.5					
15	256QAM	36	20	19.43	19.52	19.52							
15	256QAM	36	36	19.35	19.51	19.41							
15	256QAM	75	0	19.43	19.52	19.43							
Channel													
20095 20140 20185													
10	QPSK	1	0	23.32	23.37	23.32	24	0					
10	QPSK	1	25	23.25	23.34	23.23							
10	QPSK	1	49	23.22	23.36	23.32							
10	QPSK	20	0	23.23	23.34	23.20							
10	QPSK	25	12	23.18	23.30	23.20	24	0					
10	QPSK	25	25	23.20	23.24	23.15							
10	QPSK	36	0	23.20	23.28	23.16							
10	16QAM	1	0	23.11	23.19	23.14							
10	16QAM	1	25	23.09	23.12	23.13	24	0					
10	16QAM	1	49	23.08	23.18	23.09							
10	16QAM	25	0	22.60	22.68	22.58							
10	16QAM	25	12	22.60	22.63	22.64							
10	16QAM	36	0	22.46	22.58	22.56	23.5	0.5					
10	16QAM	36	20	22.49	22.63	22.51							
10	16QAM	1	0	22.48	22.63	22.63							
10	16QAM	1	25	22.45	22.56	22.50							
10	16QAM	1	49	22.46	22.63	22.49	22.5	1.5					
10	16QAM	25	0	21.46	21.57	21.48							
10	16QAM	25	12	21.46	21.56	21.50							
10	16QAM	25	25	21.48	21.59	21.48							
10	16QAM	50	0	21.43	21.47	21.42	20.5	3.5					
10	256QAM	1	0	19.65	19.68	19.57							
10	256QAM	1	25	19.59	19.62	19.54							
10	256QAM	1	49	19.59	19.64	19.58							
10	256QAM	25	0	19.51	19.58	19.52	20.5	3.5					
10	256QAM	25	12	19.44	19.51	19.49							
10	256QAM	25	25	19.37	19.50	19.40							
10	256QAM	50	0	19.46	19.51	19.47							
Channel													
20065 20140 20185													
5	QPSK	1	0	23.32	23.44	23.32	24	0					
5	QPSK	1	12	23.28	23.35	23.24							
5	QPSK	1	24	23.19	23.35	23.29							
5	QPSK	12	0	23.26	23.36	23.24							
5	QPSK	12	7	23.13	23.31	23.16	24	0					
5	QPSK	12	13	23.16	23.30	23.15							
5	QPSK	25	0	23.21	23.29	23.14							
5	16QAM	1	0	23.16	23.19	23.16							
5	16QAM	1	12	23.08	23.16	23.12	24	0					
5	16QAM	1	24	23.12	23.15	23.09							
5	16QAM	12	0	22.80	22.86	22.68							
5	16QAM	12	7	22.63	22.66	22.62							
5	16QAM	12	13	22.58	22.55	22.54	23.5	0.5					
5	16QAM	25	0	22.54	22.64	22.63							
5	16QAM	1	0	22.47	22.58	22.63							
5	16QAM	1	12	22.48	22.57	22.59							
5	16QAM	1	24	22.47	22.56	22.49	22.5	1.5					
5	16QAM	12	0	21.47	21.58	21.54							
5	16QAM	12	7	21.48	21.56	21.48							
5	16QAM	12	13	21.46	21.52	21.48							
5	16QAM	25	0	21.42	21.47	21.47	20.5	3.5					
5	256QAM	1	0	19.62	19.67	19.59							
5	256QAM	1	12	19.57	19.63	19.58							
5	256QAM	1	24	19.60	19.67	19.59							
5	256QAM	12	0	19.54	19.57	19.50	20.5	3.5					
5	256QAM	12	7	19.48	19.52	19.48							
5	256QAM	12	13	19.36	19.46	19.40							
5	256QAM	25	0	19.45	19.50	19.46							
Channel													
1807.5 1800 1917.5													
3	QPSK	1	0	23.27	23.38	23.33	24	0					
3	QPSK	1	12	23.23	23.32	23.28							
3	QPSK	1	14	23.22	23.34	23.29							
3	QPSK	8	0	23.27	23.28	23.22							
3	QPSK	8	7	23.26	23.29	23.23	24	0					
3	QPSK	8	14	23.23	23.30	23.25							
3	QPSK	7	0	23.14	23.23	23.19							
3	QPSK	15	0	23.20	23.23	23.18							
3	QPSK	15	7	23.18	23.18	23.17	24	0					
3	16QAM	1	0	23.12	23.15	23.10							
3	16QAM	1	14	23.10	23.15	23.07							
3	16QAM	8	0	22.82	22.82	22.61							
3	16QAM	8	7	22.59	22.59	22.56	23.5	0.5					
3	16QAM	8	14	22.53	22.53	22.53							
3	16QAM	15	0	22.44	22.55	22.50							
3	16QAM	1	0	22.43	22.53	22.48							
3	16QAM	1	7	22.42	22.55	22.46	22.5	1.5					
3	16QAM	8	0	21.48	21.54	21.48							
3	16QAM	8	7	21.48	21.55	21.51							
3	16QAM	15	0	21.40	21.51	21.41							
3	16QAM	1	0	19.60	19.62	19.59	20.5	3.5					
3	16QAM	1	7	19.54	19.58	19.57							
3	16QAM	1	14	19.61	19.68	19.58							
3	16QAM	8	0	19.45	19.48	19.46							
3	16QAM	8	7	19.43	19.45	19.44							
3	16QAM	15	0	19.40	19.44	19.43							
Channel													
20047 20040 20043													
1.4	QPSK	1	0	23.24	23.31	23.24	24	0					
1.4	QPSK	1	3	23.22	23.29	23.31							
1.4	QPSK	1	5	23.24	23.33	23.29							
1.4	QPSK	3	0	23.22	23.30	23.27							
1.4	QPSK	3	3	23.15	23.26	23.13	24	0					
1.4	QPSK	3	5	23.12	23.26	23.20							
1.4	16QAM	1	0	23.07	23.12	23.08							
1.4	16QAM	1	3	23.04	23.14	23.08							
1.4	16QAM	3	0	23.16	23.16	23.04	23.5	0.5					
1.4	16QAM	3	3	23.25	23.25	23.17							
1.4	16QAM	3	5	23.12	23.16	23.14							
1.4	16QAM	6	0	22.53	22.60	22.53							
1.4	16QAM	1	0	22.45	22.59	22.52	23.5	0.5					
1.4	16QAM	1	3	22.47	22.57	22.50							
1.4	16QAM	1	5	22.46	22.57	22.45							
1.4	16QAM	3	0	22.49	22.54	22.47							
1.4	16QAM	3	3	21.43	21.52	21.47	22.5	1.5					
1.4	16QAM	6	0	21.40	21.48	21.46							
1.4	16QAM	1	0	19.59	19.61	19.54							
1.4	16QAM	1	3	19.61	19.60	19.58							
1.4	256QAM	1	0	19.48	19.48	19.36	20.5	3.5					
1.4	256QAM	3	0	19.45	19.53	19.49							
1.4	256QAM	3	3	19.45	19.48	19.45							
1.4	256QAM	6	0	19.43	19.55	19.44							
1.4	256QAM	6	3	19.43	19.55	19.44							
1.4	256QAM	6	6	19.43	19.55	19.44							

Band 30 Ant0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up (dB)	APR (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	20.05	20.10	20.15	21.1	0			
10	QPSK	1	25	20.01	20.10	20.19					
10	QPSK	1	49	20.00	20.10	20.20					
10	QPSK	25	0	19.89	19.90	19.91	21.1	0			
10	QPSK	25	12	19.92	19.90	19.88					
10	QPSK	25	25	19.90	19.90	19.90					
10	16QAM	1	0	19.82	19.80	19.80	21.1	0			
10	16QAM	1	25	19.80	19.80	19.80					
10	16QAM	1	49	19.72	19.72	19.72					
10	16QAM	25	0	19.37	19.37	19.37	21	0.1			
10	16QAM	25	12	19.29	19.29	19.29					
10	16QAM	25	25	19.26	19.26	19.26					
10	16QAM	50	0	19.30	19.30	19.30	21	0.1			
10	16QAM	1	0	19.26	19.26	19.26					
10	16QAM	1	25	19.26	19.26	19.26					
10	16QAM	1	49	19.16	19.16	19.16	20	1.1			
10	16QAM	25	0	18.39	18.39	18.39					
10	16QAM	25	12	18.31	18.31	18.31					
10	16QAM	50	0	18.32	18.32	18.32	18	3.1			
10	256QAM	1	0	18.20	18.20	18.20					
10	256QAM	1	25	18.29	18.29	18.16					
10	256QAM	1	49	18.32	18.32	18.32	18	3.1			
10	256QAM	25	0	18.29	18.29	18.16					
10	256QAM	25	12	18.23	18.23	18.23					
10	256QAM	50	0	18.23	18.23	18.23	20	3.5			
10	256QAM	100	0	18.23	18.23	18.23					
10	256QAM	100	0	18.23	18.23	18.23					
Channel											
Frequency (MHz)											
5	QPSK	1	0	19.95	19.98	19.96	21.1	0			
5	QPSK	1	12	19.90	19.98	19.98					
5	QPSK	1	24	19.90	19.98	19.98					
5	QPSK	12	0	19.77	19.80	19.79	21.1	0			
5	QPSK	12	7	19.86	19.80	19.82					
5	QPSK	12	13	19.84	19.84	19.86					
5	QPSK	25	0	19.70	19.78	19.75	21.1	0			
5	16QAM	1	0	19.76	19.77	19.73					
5	16QAM	1	12	19.69	19.67	19.68					
5	16QAM	1	24	19.69	19.67	19.62	21	0.1			
5	16QAM	12	0	19.32	19.28	19.30					
5	16QAM	12	7	19.20	19.22	19.26					
5	16QAM	25	0	19.20	19.16	19.24	21	0.1			
5	16QAM	1	0	19.18	19.21	19.18					
5	16QAM	1	12	19.22	19.16	19.24					
5	16QAM	1	24	19.21	19.13	19.11	20	1.1			
5	16QAM	12	0	18.31	18.36	18.30					
5	16QAM	12	7	18.33	18.32	18.16					
5	16QAM	12	13	18.32	18.33	18.26	18	3.1			
5	16QAM	25	0	18.20	18.30	18.25					
5	256QAM	1	0	18.26	18.28	18.18					
5	256QAM	1	12	18.15	18.21	18.15	18	3.1			
5	256QAM	1	24	18.24	18.27	18.18					
5	256QAM	12	0	18.20	18.26	18.17					
5	256QAM	12	7	18.10	18.19	18.10	18	3.1			
5	256QAM	12	13	18.08	18.15	18.10					
5	256QAM	25	0	18.08	18.17	18.08					

Band 66 Ant0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up (ms)	APR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.22	23.26	23.17	24	0			
20	QPSK	1	49	23.19	23.20	23.19					
20	QPSK	1	99	23.17	23.20	23.14					
20	QPSK	50	0	23.14	23.16	23.09	24	0			
20	QPSK	50	24	23.08	23.11	23.02					
20	QPSK	50	50	23.05	23.11	23.04					
20	QPSK	100	0	23.08	23.11	23.02	24	0			
20	16QAM	1	0	22.97	23.01	22.98					
20	16QAM	1	99	22.94	22.96	22.92					
20	16QAM	50	0	22.48	22.50	22.49	23.5	0.5			
20	16QAM	50	24	22.45	22.48	22.44					
20	16QAM	50	50	22.43	22.48	22.44					
20	16QAM	100	0	22.38	22.41	22.38	23.5	0.5			
20	16QAM	1	0	22.33	22.41	22.34					
20	16QAM	1	49	22.31	22.36	22.30					
20	16QAM	50	0	21.43	21.49	21.47	22.5	1.5			
20	16QAM	50	24	21.34	21.44	21.39					
20	16QAM	50	50	21.42	21.46	21.43					
20	16QAM	100	0	21.42	21.45	21.41	20.5	3.5			
20	256QAM	1	49	19.49	19.49	19.45					
20	256QAM	1	99	19.41	19.49	19.45					
20	256QAM	50	0	19.45	19.48	19.40	20.5	3.5			
20	256QAM	50	24	19.35	19.41	19.33					
20	256QAM	50	50	19.34	19.43	19.33					
20	256QAM	100	0	19.34	19.43	19.33	20	3.5			
20	256QAM	100	0	19.34	19.43	19.33					
20	256QAM	100	0	19.34	19.43	19.33					
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.14	23.21	23.15	24	0			
15	QPSK	1	37	23.09	23.11	23.03					
15	QPSK	1	74	23.14	23.17	23.07					
15	QPSK	36	0	23.10	23.16	23.05	24	0			
15	QPSK	36	18	23.04	23.08	22.99					
15	QPSK	36	39	22.98	23.02	22.96					
15	QPSK	75	0	23.01	23.04	22.97	24	0			
15	16QAM	1	0	22.92	23.00	22.95					
15	16QAM	1	37	22.95	22.95	22.88					
15	16QAM	1	74	22.96	22.96	22.87	23.5	0.5			
15	16QAM	36	0	22.40	22.46	22.45					
15	16QAM	36	20	22.41	22.48	22.40					
15	16QAM	36	39	22.36	22.45	22.35	23.5	0.5			
15	16QAM	75	0	22.28	22.45	22.31					
15	16QAM	1	0	22.25	22.33	22.25					
15	16QAM	1	37	22.31	22.32	22.25	23.5	0.5			
15	16QAM	1	74	22.20	22.31	22.22					
15	16QAM	36	0	21.39	21.44	21.36					
15	16QAM	36	20	21.37	21.40	21.37	22.5	1.5			
15	16QAM	36	39	21.37	21.40	21.37					
15	16QAM	75	0	21.40	21.35	21.36					
15	256QAM	1	0	19.43	19.46	19.34	20.5	3.5			
15	256QAM	1	37	19.40	19.50	19.36					
15	256QAM	1	74	19.33	19.46	19.42					
15	256QAM	36	0	19.36	19.40	19.36	20.5	3.5			
15	256QAM	36	20	19.31	19.37	19.29					
15	256QAM	36	39	19.30	19.40	19.30					
15	256QAM	75	0	19.34	19.43	19.33	20	3.5			
15	256QAM	100	0	19.34	19.43	19.33					
15	256QAM	100	0	19.34	19.43	19.33					
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.19	23.19	23.16	24	0			
10	QPSK	1	25	23.17	23.18	23.09					
10	QPSK	1	49	23.10	23.12	23.12					
10	QPSK	25	0	23.05	23.04	22.95	24	0			
10	QPSK	25	12	23.05	23.04	22.95					
10	QPSK	25	25	22.99	23.06	22.98					
10	QPSK	50	0	22.97	23.02	22.97	24	0			
10	16QAM	1	0	22.98	23.01	22.97					
10	16QAM	1	25	22.89	22.95	22.95					
10	16QAM	1	49	22.84	22.92	22.87	23.5	0.5			
10	16QAM	25	0	22.44	22.47	22.41					
10	16QAM	25	12	22.41	22.43	22.40					



Band 38 Ant0													
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)					
Channel													
Frequency (MHz)				37950	38050	38150							
20	QPSK	1	0	20.76	20.82	20.74	22	0					
20	QPSK	1	48	20.73	20.83	20.68							
20	QPSK	1	88	20.75	20.79	20.80	21	1					
20	QPSK	50	0	19.91	19.94	19.92							
20	QPSK	50	24	19.30	19.85	19.70	20	2					
20	QPSK	50	48	19.35	19.75	19.65							
20	HQAM	1	0	19.76	19.81	19.76	21	1					
20	HQAM	1	48	19.76	19.77	19.73							
20	HQAM	1	96	19.82	19.71	19.58	20	2					
20	HQAM	50	0	19.82	19.87	19.84							
20	HQAM	50	24	19.86	19.89	19.78	19	3					
20	HQAM	50	50	19.73	19.82	19.73							
20	HQAM	100	0	19.76	19.82	19.72	20	2					
20	HQAM	100	0	19.77	19.75	19.63							
20	HQAM	1	48	19.89	19.88	19.61	20	2					
20	HQAM	1	96	19.95	19.82	19.76							
20	HQAM	50	0	17.84	17.82	17.83	19	3					
20	HQAM	50	24	17.73	17.86	17.74							
20	HQAM	50	50	17.71	17.84	17.73	17	5					
20	HQAM	100	0	17.71	17.82	17.76							
20	25QAM	1	0	15.82	15.83	15.91	17	5					
20	25QAM	1	48	15.75	15.88	15.78							
20	25QAM	1	96	15.87	15.91	15.76	17	5					
20	25QAM	50	0	15.83	15.82	15.73							
20	25QAM	50	24	15.78	15.87	15.75	17	5					
20	25QAM	50	50	15.71	15.78	15.71							
20	25QAM	100	0	15.76	15.79	15.74							
Channel													
Frequency (MHz)				37925	38050	38175	Tune-up limit (dBm)	MFR (dB)					
				20.73	20.82	20.72							
15	QPSK	1	0	20.73	20.82	20.72	22	0					
15	QPSK	1	37	20.68	20.72	20.59							
15	QPSK	1	74	20.72	20.75	20.62	21	1					
15	QPSK	36	0	19.82	19.83	19.70							
15	QPSK	36	20	19.67	19.81	19.58	21	1					
15	QPSK	36	37	19.56	19.83	19.65							
15	QPSK	75	0	18.67	18.77	18.67	21	1					
15	HQAM	1	0	18.58	18.71	18.68							
15	HQAM	1	37	18.56	18.63	18.65	20	2					
15	HQAM	1	74	18.52	18.60	18.49							
15	HQAM	36	0	18.85	18.79	18.82	20	2					
15	HQAM	36	20	18.67	18.80	18.67							
15	HQAM	36	37	18.61	18.87	18.76	20	2					
15	HQAM	75	0	18.76	18.74	18.80							
15	HQAM	75	0	18.81	18.79	18.73	20	2					
15	HQAM	1	37	18.86	18.84	18.82							
15	HQAM	1	74	18.83	18.75	18.72	19	3					
15	HQAM	36	0	17.75	17.84	17.83							
15	HQAM	36	20	17.62	17.82	17.71	17	5					
15	HQAM	36	37	17.61	17.84	17.73							
15	HQAM	75	0	17.66	17.75	17.65	17	5					
15	25QAM	1	0	15.79	15.88	15.82							
15	25QAM	1	37	15.75	15.85	15.75	17	5					
15	25QAM	1	74	15.84	15.85	15.85							
15	25QAM	36	0	15.79	15.77	15.87	17	5					
15	25QAM	36	20	15.72	15.84	15.73							
15	25QAM	36	37	15.64	15.86	15.65	17	5					
15	25QAM	75	0	15.65	15.80	15.63							
Channel													
Frequency (MHz)				37925	38050	38225	Tune-up limit (dBm)	MFR (dB)					
				20.73	20.82	20.81							
5	QPSK	1	0	20.73	20.82	20.81	22	0					
5	QPSK	1	12	20.58	20.74	20.64							
5	QPSK	1	24	20.63	20.71	20.63	21	1					
5	QPSK	12	0	19.81	19.84	19.71							
5	QPSK	12	7	19.73	19.78	19.76	21	1					
5	QPSK	12	13	19.76	19.80	19.72							
5	HQAM	1	0	19.68	19.64	19.63	21	1					
5	HQAM	1	12	19.81	19.68	19.82							
5	HQAM	1	24	19.85	19.81	19.84	20	2					
5	HQAM	12	0	18.83	18.82	18.86							
5	HQAM	12	7	18.68	18.73	18.70	20	2					
5	HQAM	12	13	18.83	18.83	18.75							
5	HQAM	25	0	18.74	18.71	18.59	20	2					
5	HQAM	1	0	18.69	18.70	18.76							
5	HQAM	1	12	18.87	18.82	18.84	19	3					
5	HQAM	1	24	18.83	18.76	18.69							
5	HQAM	12	0	17.78	17.86	17.72	17	5					
5	HQAM	12	7	17.65	17.81	17.66							
5	HQAM	12	13	17.66	17.80	17.66	17	5					
5	HQAM	25	0	15.76	15.74	15.71							
5	25QAM	1	0	15.80	15.88	15.78	17	5					
5	25QAM	1	12	15.79	15.78	15.74							
5	25QAM	1	24	15.75	15.85	15.72	17	5					
5	25QAM	12	0	15.79	15.72	15.67							
5	25QAM	12	7	15.70	15.77	15.62	17	5					
5	25QAM	12	13	15.81	15.73	15.62							
5	25QAM	25	0	15.71	15.73	15.67							

Band 41 Ant0											
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel				38970	40185	40620	41005	41480			
Frequency (MHz)				22.26	22.43	22.32	22.40	22.45			
15	QPSK	1	0	22.26	22.40	22.32	22.40	22.45	23.8	0	
15	QPSK	1	48	22.26	22.33	22.38	22.35	22.30			
15	QPSK	1	96	22.33	22.34	22.44	22.40	22.13	23.8	0	
15	QPSK	50	0	22.25	22.26	22.40	22.38	22.12			
15	QPSK	50	24	22.14	22.23	22.35	22.38	22.05	23.8	0	
15	QPSK	50	48	22.08	22.10	22.28	22.28	22.28			
15	QPSK	100	0	22.11	22.17	22.35	22.28	22.02	23.8	0	
15	16QAM	1	0	22.27	22.36	22.37	22.22	22.38			
15	16QAM	1	48	22.18	22.18	22.25	22.28	22.28	23.8	0	
15	16QAM	1	96	22.28	22.23	22.27	22.28	22.24			
15	16QAM	50	0	22.16	22.21	22.34	22.25	22.06	23.5	0.3	
15	16QAM	50	24	22.13	22.26	22.34	22.29	22.04			
15	16QAM	50	50	22.05	22.29	22.39	22.30	22.00	23.5	0.3	
15	16QAM	100	0	22.25	22.17	22.37	22.32	22.07			
15	64QAM	1	0	22.25	22.27	22.27	22.21	22.21	23.5	0.3	
15	64QAM	1	48	22.21	22.21	22.27	22.28	22.28	23.5	0.3	
15	64QAM	1	96	22.21	22.26	22.27	22.25	22.25			
15	64QAM	50	0	21.92	21.96	22.01	21.95	21.83	22.5	1.3	
15	64QAM	50	24	21.87	21.83	21.93	21.83	21.83			
15	64QAM	50	48	21.90	21.91	21.97	21.91	21.88	22.5	1.3	
15	64QAM	100	0	21.87	21.87	21.96	21.86	21.91			
15	256QAM	1	0	20.04	20.06	20.07	20.04	20.02	20.5	3.3	
15	256QAM	1	48	19.91	19.91	19.97	19.91	19.91			
15	256QAM	1	96	19.96	19.96	19.99	19.96	19.94	20.5	3.3	
15	256QAM	50	0	19.86	19.86	19.94	19.87	19.87			
15	256QAM	50	24	19.83	19.81	19.90	19.84	19.86	20.5	3.3	
15	256QAM	50	48	19.87	19.83	19.90	19.82	19.86			
Channel				38970	40185	40620	41005	41480			
Frequency (MHz)				22.13 <th>22.24<th>22.13<th>22.19<th>22.12<td colspan="2"></td></th></th></th></th>	22.24 <th>22.13<th>22.19<th>22.12<td colspan="2"></td></th></th></th>	22.13 <th>22.19<th>22.12<td colspan="2"></td></th></th>	22.19 <th>22.12<td colspan="2"></td></th>	22.12 <td colspan="2"></td>			
15	QPSK	1	0	22.13	22.24	22.13	22.19	22.12	24	0	
15	QPSK	1	37	22.15	22.27	22.23	22.28	22.14			
15	QPSK	1	74	22.17	22.23	22.23	22.29	22.07	23.8	0	
15	QPSK	50	0	22.13	22.18	22.22	22.18	22.04			
15	QPSK	50	24	22.05	22.09	22.25	22.28	21.98	23.8	0	
15	QPSK	50	37	22.05	22.07	22.23	22.23	22.05			
15	QPSK	75	0	22.07	22.11	22.22	22.14	21.89	23.8	0	
15	16QAM	1	0	22.15	22.25	22.22	22.15	22.14			
15	16QAM	1	37	22.19	22.02	22.22	22.22	22.14	23.8	0	
15	16QAM	1	74	22.16	22.10	22.20	22.18	22.21			
15	16QAM	50	0	22.11	22.14	22.21	22.21	22.21	23.5	0.3	
15	16QAM	50	24	22.09	22.17	22.23	22.23	22.15			
15	16QAM	50	37	22.09	22.21	22.26	22.26	22.16	23.5	0.3	
15	16QAM	75	0	22.09	22.12	22.22	22.12	22.12			
15	64QAM	1	0	22.24	22.18	22.24	22.09	22.22	23.5	0.3	
15	64QAM	1	37	22.27	22.11	22.23	22.23	22.25			
15	64QAM	1	74	22.17	22.16	22.22	22.22	22.23	22.5	1.3	
15	64QAM	50	0	21.86	21.89	21.94	21.87	21.86			
15	64QAM	50	24	21.83	21.78	21.83	21.78	21.79	22.5	1.3	
15	64QAM	50	37	21.85	21.86	21.93	21.87	21.86			
15	64QAM	75	0	21.78	21.82	21.87	21.83	21.86	20.5	3.3	
15	256QAM	1	0	19.86	19.86	19.94	19.85	19.87			
15	256QAM	1	37	19.86	19.85	19.94	19.85	19.87	20.5	3.3	
15	256QAM	1	74	19.86	19.84	19.94	19.83	19.88			
15	256QAM	50	0	19.86	19.86	19.92	19.85	19.86	20.5	3.3	
15	256QAM	50	24	19.80	19.82	19.92	19.80	19.86			
15	256QAM	50	37	19.86	19.80	19.92	19.83	19.86	20.5	3.3	
15	256QAM	75	0	19.87	19.80	19.88	19.83	19.88			
Channel				38970	40185	40620	41005	41480			
Frequency (MHz)				22.13 <th>22.14<th>22.13<th>22.19<th>22.12<td colspan="2"></td></th></th></th></th>	22.14 <th>22.13<th>22.19<th>22.12<td colspan="2"></td></th></th></th>	22.13 <th>22.19<th>22.12<td colspan="2"></td></th></th>	22.19 <th>22.12<td colspan="2"></td></th>	22.12 <td colspan="2"></td>			
15	QPSK	1	0	22.13	22.14	22.13	22.19	22.12	24	0	
15	QPSK	1	25	22.21	22.25	22.23	22.29	22.13			
15	QPSK	1	50	22.13	22.19	22.18	22.19	22.13	23.8	0	
15	QPSK	25	0	22.13	22.19	22.18	22.14	22.03			
15	QPSK	25	12	22.11	22.19	22.28	22.29	22.00	23.8	0	
15	QPSK	25	25	22.10	22.07	22.23	22.23	22.05			
15	QPSK	50	0	22.07	22.06	22.28	22.22	21.92	23.8	0	
15	16QAM	1	0	22.22	22.33	22.25	22.10	22.19			
15	16QAM	1	25	22.19	22.04	22.22	22.22	22.19	23.8	0	
15	16QAM	1	48	22.24	22.17	22.17	22.21	22.13			
15	16QAM	25	0	22.10	22.17	22.26	22.24	22.00	23.5	0.3	
15	16QAM	25	12	22.05	22.13	22.22	22.22	22.15			
15	16QAM	25	25	22.08	22.07	22.25	22.22	21.87	23.5	0.3	
15	16QAM	50	0	22.11	22.17	22.25	22.22	21.98			
15	64QAM	1	0	22.23	22.23	22.25	22.21	22.21	23.5	0.3	
15	64QAM	1	25	22.16	22.09	22.18	22.12	22.03			
15	64QAM	1	48	22.11	22.12	22.19	22.17	22.17	22.5	1.3	
15	64QAM	25	0	21.86	21.93	21.97	21.90	21.87			
15	64QAM	25	12	21.82	21.75	21.80	21.78	21.81	22.5	1.3	
15	64QAM	25	25	21.85	21.81	21.88	21.84	21.84			
15	64QAM	50	0	21.80	21.79	21.91	21.81	21.87	20.5	3.3	
15	64QAM	50	25	21.85	21.79	21.86	21.86	21.89			
15	256QAM	1	0	19.86	19.82	19.88	19.85	19.87	20.5	3.3	
15	256QAM	1	48	19.82	19.80	19.89	19.80	19.89			
15	256QAM	25	0	19.86	19.83	19.90	19.87	19.86	20.5	3.3	
15	256QAM	25	12	19.82	19.86	19.88	19.86	19.81			
15	256QAM	50	0	19.87	19.82	19.85	19.85	19.88	20.5	3.3	
15	256QAM	50	25	19.85	19.86	19.92	19.85	19.86			
Channel				38970	40185	40620	41005	41480			
Frequency (MHz)				22.23 <th>22.29<th>22.47<th>22.41<th>22.13<td colspan="2"></td></th></th></th></th>	22.29 <th>22.47<th>22.41<th>22.13<td colspan="2"></td></th></th></th>	22.47 <th>22.41<th>22.13<td colspan="2"></td></th></th>	22.41 <th>22.13<td colspan="2"></td></th>	22.13 <td colspan="2"></td>			
5	QPSK	1	0	22.23	22.29	22.47	22.41	22.13	24	0	
5	QPSK	1	12	22.14	22.20	22.29	22.31	22.15			
5	QPSK	1	24	22.14	22.22	22.34	22.34	22.15	23.8	0	
5	QPSK	12	0	22.27	22.30	22.40	22.20	21.98			
5	QPSK	12	7	22.02	22.13	22.26	22.26	22.01	23.8	0	
5	QPSK	24	0	22.07	22.14	22.22	22.19	22.03			
5	QPSK	25	0	22.06	22.11	22.27	22.21	21.93	23.8	0	
5	16QAM	1	0	22.24	22.29	22.26	22.11	22.13			
5	16QAM	1	12	22.13	22.14	22.19	22.19	22.13	23.8	0	
5	16QAM	1	24	22.18	22.11	22.25	22.18	22.15			
5	16QAM	12	0	22.14	22.17	22.22	22.20	22.00	23.5	0.3	
5	16QAM	12	7	22.04	22.19	22.27	22.26	22.07			
5	16QAM	12	13	22.03	22.17	22.31	22.16	21.89	23.5	0.3	
5	16QAM	25	0	22.02	22.07	22.19	22.19	22.03			
5	64QAM	1	0	22.23	22.19	22.23	22.11	22.19	23.5	0.3	
5	64QAM	1	12	22.17	22.10	22.18	22.17	22.04			
5	64QAM	1	24	22.11	22.12	22.18	22.17	22.15	22.5	1.3	
5	64QAM	12	0	21.84	21.89	21.98	21.92	21.84			
5	64QAM	12	7	21.83	21.76	21.86	21.77	21.81	22.5	1.3	
5	64QAM	12	13	21.88	21.81	21.87	21.80	21.79			
5	64QAM	25	0	21.80	21.84	21.90	21.79	21.87	20.5	3.3	
5	64QAM	25	13	21.87	21.83	21.90	21.80	21.85			
5	256QAM	1	0	19.81	19.82	19.92	19.88	19.86	20.5	3.3	
5	256QAM	1	24	19.80	19.81	19.90	19.87	19.88			
5	256QAM	12	0	19.86	19.88	19.98	19.87	19.88	20.5	3.3	
5	256QAM	12	7	19.83	19.88	19.96	19.86	19.86			
5	256QAM	12	13	19.81	19.84	19.94	19.86	19.82	20.5	3.3	
5	256QAM	25	0	19.80	19.78	19.89	19.85	19.85			

GSM 850 Art1										
CDMA2000		Base Average Power (dBm)			Tune-up Limit		Frame Average Power (dBm)			
Tx Channel		188	188	261	188		188	188	261	
Frequency (MHz)		824.2	834.4	844.6	824.2		824.2	834.4	844.6	
GSM 1 Tx watt		23.56	23.52	23.57	23.56		24.06	24.07	23.97	
GPRS 1 Tx watt		33.08	33.10	33.30	33.50		24.08	24.10	23.99	
EDGE 1 Tx watt		29.69	29.73	29.61	30.80		23.69	23.73	23.61	
GPRS 2 Tx watt		29.26	29.31	29.11	29.50		24.00	24.00	23.86	
GPRS 4 Tx watt		28.47	28.55	28.33	27.50		23.47	23.55	23.33	
EDGE 2 Tx watt		25.00	25.00	25.04	26.00		19.50	19.56	19.54	
EDGE 2 Tx watt		23.77	23.67	23.83	25.00		17.77	17.87	17.83	
EDGE 3 Tx watt		22.79	22.78	22.89	23.50		16.44	16.50	16.24	
EDGE 4 Tx watt		20.37	20.59	20.62	21.50		17.97	17.89	17.82	
GSM 1900 Art1										
CDMA2000		Base Average Power (dBm)			Tune-up Limit		Frame Average Power (dBm)			
Tx Channel		1912	1912	1912	1912		1912	1912	1912	
Frequency (MHz)		1852.2	1852	1852.8	1852.2		1852	1852	1852.8	
GSM 1 Tx watt		26.24	26.22	26.01	30.50		26.24	26.27	26.01	
GPRS 1 Tx watt		35.28	35.31	35.04	30.50		26.25	26.31	26.05	
GPRS 2 Tx watt		32.11	32.05	32.98	28.00		21.11	21.05	22.05	
GPRS 3 Tx watt		25.60	25.60	25.43	26.00		21.30	21.43	21.17	
GPRS 4 Tx watt		23.17	23.21	22.98	24.50		20.17	20.21	19.98	
EDGE 1 Tx watt		24.56	24.54	24.47	25.50		19.56	19.54	19.47	
EDGE 2 Tx watt		22.88	22.65	22.77	24.00		18.88	18.95	18.77	
EDGE 3 Tx watt		21.94	21.69	21.57	22.50		17.38	17.45	17.31	
EDGE 4 Tx watt		19.47	19.53	19.42	20.50		16.47	16.53	16.42	
WCDMA 8 Art1										
Base		WCDMA 8			Tune-up Limit		WCDMA 8			
Tx Channel		8652	8652	8652	8652		8652	8652	8652	
Frequency (MHz)		1822.4	1824	1827.6	1822.4		1822.4	1824	1827.6	
SOPF Run#0		21.36	21.41	21.43	22.70		20.39	20.50	21.80	
SOPF Run#0		21.58	21.60	21.46	22.70		20.39	20.50	21.80	
SOPF Run#1		20.30	20.29	20.45	21.70		19.46	19.25	19.41	
SOPF Run#1		20.38	20.39	20.51	21.70		19.21	19.44	19.50	
SOPF Run#1		19.83	20.06	20.29	21.50		18.97	19.04	19.20	
SOPF Run#1		20.13	20.11	20.01	21.50		19.04	19.30	19.05	
SOPF Run#1		20.89	20.88	20.44	21.70		19.82	19.77	19.44	
SOPF Run#1		20.97	20.54	20.71	21.70		19.87	19.43	19.84	
SOPF Run#1		20.18	20.24	20.27	21.50		19.05	19.21	19.09	
SOPF Run#1		19.86	20.19	20.13	21.50		19.04	19.14	19.20	
SOPF Run#1		20.71	20.49	20.46	21.70		19.80	19.46	19.50	
SOPF Run#1		18.61	18.24	18.47	19.70		17.63	17.32	17.44	
SOPF Run#1		19.45	19.75	19.42	20.70		18.45	18.87	18.44	
SOPF Run#1		18.29	18.43	18.69	19.70		17.38	17.46	17.74	
SOPF Run#1		20.85	20.79	20.65	21.70		19.60	19.86	19.58	
WCDMA 8 Art2										
Base		WCDMA 8			Tune-up Limit		WCDMA 8			
Tx Channel		8652	8652	8652	8652		8652	8652	8652	
Frequency (MHz)		1822.4	1824	1827.6	1822.4		1822.4	1824	1827.6	
SOPF Run#0		21.36	21.41	21.43	22.70		20.39	20.50	21.80	
SOPF Run#0		21.58	21.60	21.46	22.70		20.39	20.50	21.80	
SOPF Run#1		20.30	20.29	20.45	21.70		19.46	19.25	19.41	
SOPF Run#1		20.38	20.39	20.51	21.70		19.21	19.44	19.50	
SOPF Run#1		19.83	20.06	20.29	21.50		18.97	19.04	19.20	
SOPF Run#1		20.13	20.11	20.01	21.50		19.04	19.30	19.05	
SOPF Run#1		20.89	20.88	20.44	21.70		19.82	19.77	19.44	
SOPF Run#1		20.97	20.54	20.71	21.70		19.87	19.43	19.84	
SOPF Run#1		20.18	20.24	20.27	21.50		19.05	19.21	19.09	
SOPF Run#1		19.86	20.19	20.13	21.50		19.04	19.14	19.20	
SOPF Run#1		20.71	20.49	20.46	21.70		19.80	19.46	19.50	
SOPF Run#1		18.61	18.24	18.47	19.70		17.63			



Band 2 Ant1									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freq	Power Hsp Ch / Freq	Power Hsp Ch / Freq	Turn-up Time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.69	20.67	20.63			
20	QPSK	1	49	20.71	20.73	20.67			
20	QPSK	1	99	20.60	20.60	20.62		22.1	0
20	QPSK	50	0	20.72	20.70	20.74			
20	QPSK	50	24	20.68	20.68	20.65			
20	QPSK	50	50	20.64	20.60	20.48			
20	QPSK	100	0	20.67	20.70	20.65			
20	QPSK	100	24	20.69	20.70	20.68			
20	16QAM	1	49	20.39	20.53	20.47		22.1	0
20	16QAM	1	99	20.48	20.48	20.63			
20	16QAM	50	0	20.51	20.50	20.53			
20	16QAM	50	24	20.55	20.51	20.37		22.1	0
20	16QAM	50	50	20.51	20.46	20.47			
20	16QAM	100	0	20.54	20.54	20.53			
20	64QAM	1	0	20.74	20.66	20.55		22.1	0
20	64QAM	1	49	20.52	20.52	20.44			
20	64QAM	1	99	20.51	20.50	20.36			
20	64QAM	50	0	20.59	20.67	20.55			
20	64QAM	50	24	20.46	20.60	20.51			
20	64QAM	50	50	20.59	20.56	20.47			
20	64QAM	100	0	20.59	20.62	20.56			
20	256QAM	1	49	19.40	19.43	19.42		20.5	1.6
20	256QAM	1	99	19.33	19.38	19.44			
20	256QAM	50	0	19.32	19.41	19.45			
20	256QAM	50	24	19.21	19.41	19.27		20.5	1.6
20	256QAM	50	50	19.16	19.44	19.29			
20	256QAM	100	0	19.16	19.23	19.25			
Channel									
Frequency (MHz)									
15	QPSK	1	0	20.37	20.65	20.39			
15	QPSK	1	49	20.43	20.46	20.46		22.1	0
15	QPSK	1	74	20.45	20.68	20.46			
15	QPSK	36	0	20.59	20.72	20.62			
15	QPSK	36	24	20.54	20.65	20.43		22.1	0
15	QPSK	36	39	20.58	20.59	20.39			
15	QPSK	75	0	20.62	20.70	20.61			
15	16QAM	1	37	20.57	20.52	20.32		22.1	0
15	16QAM	1	37	20.34	20.39	20.39			
15	16QAM	36	24	20.58	20.68	20.45			
15	16QAM	36	20	20.45	20.47	20.30		22.1	0
15	16QAM	75	0	20.48	20.51	20.37			
15	64QAM	1	0	20.65	20.54	20.44			
15	64QAM	1	39	20.67	20.67	20.36		22.1	0
15	64QAM	1	74	20.35	20.49	20.30			
15	64QAM	36	0	20.51	20.54	20.59			
15	64QAM	36	24	20.53	20.55	20.45		22.1	0
15	64QAM	36	39	20.47	20.52	20.40			
15	64QAM	75	0	20.43	20.51	20.46			
15	256QAM	1	37	19.20	19.30	19.23		20.5	1.6
15	256QAM	1	74	19.25	19.20	19.22			
15	256QAM	36	24	19.36	19.42	19.28			
15	256QAM	36	20	19.09	19.20	19.11		20.5	1.6
15	256QAM	39	0	19.03	19.35	19.25			
15	256QAM	75	0	19.03	19.25	19.16			
Channel									
Frequency (MHz)									
10	QPSK	1	0	20.67	20.67	20.67			
10	QPSK	1	25	20.43	20.42	20.48		22.1	0
10	QPSK	1	49	20.51	20.78	20.51			
10	QPSK	1	74	20.46	20.60	20.46			
10	QPSK	25	13	20.48	20.59	20.41		22.1	0
10	QPSK	25	25	20.59	20.58	20.37			
10	QPSK	25	39	20.58	20.58	20.46			
10	16QAM	1	0	20.59	20.69	20.53			
10	16QAM	1	25	20.32	20.47	20.41		22.1	0
10	16QAM	1	49	20.38	20.54	20.48			
10	16QAM	25	0	20.66	20.59	20.49			
10	16QAM	25	12	20.48	20.48	20.22		22.1	0
10	16QAM	25	12	20.45	20.55	20.37			
10	16QAM	50	0	20.48	20.52	20.44			
10	64QAM	1	0	20.63	20.62	20.39			
10	64QAM	1	49	20.63	20.48	20.32		22.1	0
10	64QAM	1	49	20.43	20.58	20.51			
10	64QAM	25	0	20.49	20.55	20.51			
10	64QAM	25	12	20.38	20.42	20.42		22.1	0
10	64QAM	25	25	20.51	20.44	20.47			
10	64QAM	50	0	20.54	20.47	20.45			
10	256QAM	1	12	19.38	19.45	19.31		20.5	1.6
10	256QAM	1	25	19.21	19.34	19.37			
10	256QAM	1	49	19.10	19.15	19.32			
10	256QAM	25	12	19.25	19.32	19.25			
10	256QAM	25	12	19.12	19.30	19.16		20.5	1.6
10	256QAM	25	25	19.05	19.20	19.01			
10	256QAM	50	0	19.20	19.37	19.30			
Channel									
Frequency (MHz)									
5	QPSK	1	0	20.57	20.55	20.49		22.1	0
5	QPSK	1	12	20.50	20.51	20.49			
5	QPSK	1	24	20.49	20.64	20.53			
5	QPSK	12	0	20.63	20.64	20.49			
5	QPSK	12	7	20.48	20.60	20.39		22.1	0
5	QPSK	12	13	20.50	20.51	20.40			
5	QPSK	12	13	20.57	20.61	20.49			
5	16QAM	1	0	20.58	20.68	20.50			
5	16QAM	1	12	20.26	20.44	20.40		22.1	0
5	16QAM	1	12	20.39	20.57	20.44			
5	16QAM	12	0	20.66	20.61	20.31			
5	16QAM	12	7	20.45	20.48	20.30		22.1	0
5	16QAM	12	13	20.43	20.52	20.32			
5	16QAM	25	0	20.44	20.49	20.42			
5	64QAM	1	0	20.64	20.56	20.42			
5	64QAM	1	12	20.37	20.38	20.32		22.1	0
5	64QAM	1	24	20.44	20.50	20.26			
5	64QAM	12	0	20.48	20.55	20.42			
5	64QAM	12	0	20.52	20.51	20.42		22.1	0
5	64QAM	12	13	20.50	20.49	20.41			
5	64QAM	25	0	20.53	20.47	20.46			
5	256QAM	1	12	19.40	19.47	19.37		20.5	1.6
5	256QAM	1	12	19.26	19.18	19.17			
5	256QAM	12	0	19.12	19.32	19.16			
5	256QAM	12	13	19.30	19.34	19.26			
5	256QAM	12	7	19.14	19.21	19.14		20.5	1.6
5	256QAM	12	13	19.07	19.41	19.03			
5	256QAM	25	0	19.00	19.30	19.08			
Channel									
Frequency (MHz)									
3	QPSK	1	0	20.57	20.55	20.57		22.1	0
3	QPSK	1	8	20.51	20.46	20.51			
3	QPSK	1	14	20.53	20.69	20.56			
3	QPSK	8	0	20.60	20.61	20.22		22.1	0
3	QPSK	8	4	20.52	20.59	20.44			
3	QPSK	8	7	20.56	20.49	20.42			
3	QPSK	15	0	20.51	20.63	20.58			
3	16QAM	1	0	20.62	20.60	20.51		22.1	0
3	16QAM	1	8	20.28	20.45	20.35			
3	16QAM	1	15	20.33	20.55	20.51			
3	16QAM	8	0	20.58	20.58	20.51		22.1	0
3	16QAM	8	4	20.51	20.55	20.27			
3	16QAM	15	0	20.42	20.49	20.36			
3	16QAM	15	0	20.48	20.58	20.44		22.1	0
3	16QAM	15	0	20.70	20.31	20.47			
3	64QAM	1	0	20.47	20.39	20.39		22.1	0
3	64QAM	1	14	20.37	20.52	20.25			
3	64QAM	8	0	20.50	20.50	20.47			
3	64QAM	8	4	20.38	20.56	20.43		22.1	0
3	64QAM	8	7	20.53	20.51	20.34			
3	256QAM	1	0	19.29	19.39	19.37		20.5	1.6
3	256QAM	1	8	19.26	19.31	19.36			
3	256QAM	8	0	19.22	19.30	19.25			
3	256QAM	8	0	19.22	19.43	19.28		20.5	1.6
3	256QAM	8	4	18.86	19.18	19.21			
3	256QAM	8	7	19.00	19.30	19.24			
3	256QAM	15	0	19.17	19.23	19.14		20.5	1.6
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	20.58	19.90	20.54		22.1	0
1.4	QPSK	1	3	20.49	20.48	20.52			
1.4	QPSK	1	5	20.49	20.65	20.46			
1.4	QPSK	3	0	20.63	20.61	20.61		22.1	0
1.4	QPSK	3	1	20.44	20.54	20.47			
1.4	16QAM	1	0	20.53	20.49	20.40			
1.4	16QAM	1	3	20.58	20.65	20.54		22.1	0
1.4	16QAM	1	0	20.52	20.60	20.49			



Band 12 Ant1														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-on Int. (dB)	MPR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.62	22.65	22.67	24	0						
10	QPSK	1	25	22.46	22.54	22.55								
10	QPSK	1	49	22.46	22.47	22.48								
10	QPSK	25	0	22.56	22.61	22.62	24	0						
10	QPSK	25	12	22.35	22.54	22.62								
10	QPSK	25	25	22.47	22.46	22.48								
10	QPSK	50	0	22.53	22.59	22.66	24	0						
10	16QAM	1	0	22.54	22.57	22.68								
10	16QAM	1	25	22.34	22.38	22.37								
10	16QAM	1	49	22.39	22.41	22.37	23	1						
10	16QAM	25	0	21.81	21.87	21.84								
10	16QAM	25	12	21.83	21.85	21.88								
10	16QAM	25	25	21.80	21.81	21.81	22	2						
10	16QAM	50	0	21.80	21.87	21.79								
10	8QAM	1	25	21.94	22.06	21.92								
10	8QAM	1	49	22.32	21.93	21.83	23	1						
10	8QAM	25	0	22.02	21.93	21.89								
10	8QAM	25	12	21.95	22.06	21.87								
10	8QAM	25	25	21.88	21.88	21.87	22	2						
10	8QAM	50	0	21.91	20.81	20.84								
10	8QAM	50	12	20.91	20.83	20.81								
10	256QAM	1	25	18.84	18.92	18.90	20	4						
10	256QAM	1	49	18.87	18.89	18.87								
10	256QAM	1	73	18.79	18.84	18.83								
10	256QAM	25	0	18.80	18.89	19.00	20	4						
10	256QAM	25	12	18.70	18.82	18.88								
10	256QAM	25	25	18.80	18.80	18.80								
10	256QAM	50	0	18.80	18.80	18.80								
10	256QAM	50	12	18.80	18.80	18.83								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.41	22.42	22.62	24	0						
5	QPSK	1	12	22.27	22.46	22.19								
5	QPSK	1	24	22.25	22.36	22.33								
5	QPSK	12	0	22.37	22.37	22.39	24	0						
5	QPSK	12	7	22.20	22.36	22.29								
5	QPSK	12	13	22.40	22.32	22.28								
5	16QAM	25	0	22.40	22.40	22.37	24	0						
5	16QAM	1	0	22.36	22.44	22.38								
5	16QAM	1	12	22.09	22.23	22.14								
5	16QAM	12	0	21.89	21.71	21.47	23	1						
5	16QAM	12	7	21.58	21.70	21.54								
5	16QAM	25	0	21.73	21.77	21.83								
5	8QAM	1	0	21.95	22.03	21.87	23	1						
5	8QAM	1	12	21.75	21.94	21.68								
5	8QAM	1	24	21.85	21.70	21.85								
5	8QAM	12	0	20.85	20.86	20.78	22	2						
5	8QAM	12	7	20.84	20.86	20.78								
5	8QAM	12	13	20.58	20.85	20.75								
5	8QAM	25	0	20.72	20.79	20.75	20	4						
5	256QAM	1	0	18.87	18.88	18.88								
5	256QAM	1	12	18.86	18.88	18.79								
5	256QAM	1	24	18.75	18.82	18.87	20	4						
5	256QAM	12	0	18.53	18.75	18.84								
5	256QAM	12	7	18.58	18.76	18.85								
5	256QAM	25	0	18.58	18.76	18.85								
5	256QAM	25	12	18.58	18.76	18.85								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.14	22.14	22.45	24	0						
3	QPSK	1	8	22.41	22.41	22.31								
3	QPSK	1	14	22.24	22.29	22.24								
3	QPSK	8	0	22.30	22.38	22.29	24	0						
3	QPSK	8	4	22.09	22.44	22.33								
3	QPSK	8	7	22.22	22.39	22.28								
3	16QAM	1	0	22.42	22.38	22.33	24	0						
3	16QAM	1	0	22.49	22.37	22.25								
3	16QAM	1	8	22.23	22.22	22.14								
3	16QAM	16	0	21.54	21.54	21.49	23	1						
3	16QAM	8	4	21.38	21.58	21.64								
3	16QAM	8	7	21.53	21.56	21.58								
3	16QAM	15	0	21.55	21.83	21.60	23	1						
3	8QAM	1	0	22.04	22.05	21.82								
3	8QAM	1	8	21.80	21.86	21.73								
3	8QAM	1	14	21.96	21.87	21.75	22	2						
3	8QAM	8	0	20.70	20.67	20.67								
3	8QAM	8	4	20.46	20.68	20.76								
3	8QAM	8	7	20.67	20.62	20.60	20	4						
3	256QAM	15	0	18.56	18.62	18.67								
3	256QAM	1	8	18.74	18.70	18.61								
3	256QAM	1	14	18.74	18.82	18.76	20	4						
3	256QAM	8	0	18.68	18.65	18.67								
3	256QAM	8	4	18.46	18.76	18.73								
3	256QAM	8	7	18.54	18.68	18.75	20	4						
3	256QAM	15	0	18.78	18.75	18.75								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	21.54	21.54	21.45	24	0						
1.4	QPSK	1	3	22.26	22.47	22.30								
1.4	QPSK	1	5	22.32	22.41	22.26								
1.4	QPSK	3	0	22.34	22.50	22.31	24	0						
1.4	QPSK	3	1	22.22	22.30	22.28								
1.4	QPSK	3	3	22.33	22.38	22.41								
1.4	16QAM	1	0	22.41	22.44	22.34	24	0						
1.4	16QAM	1	0	22.46	22.43	22.45								
1.4	16QAM	1	3	22.26	22.27	22.22								
1.4	16QAM	3	0	22.36	22.31	22.22	24	0						
1.4	16QAM	3	0	22.46	22.37	22.43								
1.4	16QAM	3	1	22.11	22.31	22.29								
1.4	16QAM	3	3	22.32	22.26	22.18	23	1						
1.4	16QAM	8	0	21.81	21.71	21.68								
1.4	8QAM	1	0	21.98	22.08	21.89								
1.4	8QAM	1	3	21.69	22.01	21.78	23	1						
1.4	8QAM	1	5	21.82	21.86	21.89								
1.4	8QAM	3	0	21.93	22.11	21.83								
1.4	8QAM	3	1	21.83	22.02	21.86	22	2						
1.4	8QAM	3	3	21.77	21.71	21.83								
1.4	8QAM	6	0	20.86	20.98	20.77								
1.4	256QAM	1	0	18.83	18.84	18.77	20	4						
1.4	256QAM	1	3	18.73	18.73	18.78								
1.4	256QAM	1	5	18.94	18.74	18.76								
1.4	256QAM	3	0	18.72	18.86	18.85	20	4						
1.4	256QAM	3	1	18.84	18.89	18.82								
1.4	256QAM	3	3	18.69	18.74	18.74								
1.4	256QAM	6	0	18.91	18.85	18.75	20	4						
1.4	256QAM	6	0	18.91	18.85	18.75								
1.4	256QAM	6	0	18.91	18.85	18.75								

Band 13 Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Transmit (dBm)	MPE (dB)		
Chennel				Frequency (MHz)	2350	2360				
10	QPSK	1	0		-23.03					
10	QPSK	1	25		-23.46		24	0		
10	QPSK	1	49		-23.03					
10	QPSK	25	0		-23.56					
10	QPSK	25	12		-23.43		24	0		
10	QPSK	25	25		-23.41					
10	QPSK	50	0		-23.55					
10	16QAM	1	0		-23.42		24	0		
10	16QAM	1	25		-23.24					
10	16QAM	1	49		-23.30					
10	16QAM	25	0		-23.31		23	1		
10	16QAM	25	12		-23.24					
10	16QAM	25	25		-23.26					
10	16QAM	50	0		-23.45					
10	16QAM	50	25		-21.15		23	1		
10	16QAM	1	26		-21.53					
10	16QAM	1	49		-21.51					
10	16QAM	25	0		-21.52		22	2		
10	16QAM	25	12		-21.08					
10	16QAM	25	25		-21.11					
10	16QAM	50	0		-21.43		20	4		
10	25QAM	1	0		-18.20					
10	25QAM	1	25		-18.06		20	4		
10	25QAM	1	49		-18.07					
10	25QAM	25	0		-19.34					
10	25QAM	25	12		-19.28		20	4		
10	25QAM	25	25		-19.28					
10	25QAM	50	0		-19.43					
Chennel				2365	2375		Transmit (dBm)	MPE (dB)		
Frequency (MHz)				2365	2375	2385				
5	QPSK	1	0	-22.84	-22.47	-22.45				
5	QPSK	1	12	-22.28	-22.32	-22.29	24	0		
5	QPSK	1	24	-22.41	-22.43	-22.33				
5	QPSK	12	0	-22.36	-22.41	-22.38				
5	QPSK	12	7	-22.37	-22.38	-22.28	24	0		
5	QPSK	12	19	-22.36	-22.37	-22.27				
5	QPSK	25	0	-22.28	-22.44	-22.44				
5	16QAM	1	0	-22.28	-22.23	-22.30				
5	16QAM	1	12	-22.04	-22.20	-22.16	24	0		
5	16QAM	1	24	-22.11	-22.25	-22.25				
5	16QAM	12	0	-22.24	-22.24	-22.27				
5	16QAM	12	7	-22.19	-22.20	-22.08	23	1		
5	16QAM	12	19	-22.06	-22.17	-22.15				
5	16QAM	25	0	-22.32	-22.32	-22.29	20	4		
5	16QAM	25	12	-21.06	-21.10	-21.03				
5	16QAM	1	12	-21.08	-21.10	-21.03	23	1		
5	16QAM	1	24	-21.02	-21.05	-21.07				
5	16QAM	12	0	-21.02	-21.03	-21.06	22	2		
5	16QAM	12	7	-21.04	-20.90	-21.01				
5	16QAM	12	19	-21.02	-20.95	-21.01				
5	16QAM	25	0	-21.36	-21.37	-21.29				
5	25QAM	1	18.59	-19.54	-19.54	-19.45	20	4		
5	25QAM	1	12	-18.00	-18.00	-18.00				
5	25QAM	1	24	-18.00	-18.00	-18.00				
5	25QAM	12	0	-19.14	-19.26	-19.16				
5	25QAM	12	7	-19.19	-19.12	-19.15	20	4		
5	25QAM	12	19	-19.10	-18.99	-18.98				
5	25QAM	25	0	-19.36	-19.36	-19.33				

Band 25 Ant1														
BM (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turnup time (sec)	MPN (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	20.81	20.96	20.78	22.1	0	24	0				
20	QPSK	1	49	20.71	20.70	20.72								
20	QPSK	1	99	20.86	20.86	20.75								
20	QPSK	50	0	20.88	20.91	20.81								
20	QPSK	50	24	20.70	20.72	20.85	22.1	0	24	0				
20	QPSK	50	50	20.72	20.72	20.83								
20	QPSK	100	0	20.81	20.82	20.78								
20	16QAM	1	0	20.77	20.78	20.79								
20	16QAM	1	49	20.50	20.69	20.53	22.1	0	24	0				
20	16QAM	1	99	20.58	20.76	20.71								
20	16QAM	50	0	20.83	20.82	20.89								
20	16QAM	50	24	20.80	20.67	20.52								
20	16QAM	50	50	20.82	20.60	20.58	22.1	0	24	0				
20	16QAM	100	0	20.88	20.75	20.82								
20	8QAM	1	0	20.80	20.81	20.86								
20	8QAM	1	49	20.59	20.61	20.54								
20	8QAM	1	99	20.64	20.66	20.49	22.1	0	24	0				
20	8QAM	50	0	20.72	20.75	20.69								
20	8QAM	50	24	20.57	20.87	20.56								
20	8QAM	50	50	20.65	20.66	20.59								
20	8QAM	100	0	20.73	20.72	20.63	22.1	0	24	0				
20	8QAM	1	0	20.57	20.46	20.28								
20	8QAM	1	49	19.18	19.22	19.27								
20	256QAM	1	99	19.22	19.42	19.21								
20	256QAM	50	0	19.25	19.26	19.24	20.5	1.6	20	4				
20	256QAM	50	24	19.27	19.23	19.11								
20	256QAM	50	50	19.17	19.20	19.63								
20	256QAM	100	0	19.24	19.36	19.22								
Channel														
Frequency (MHz)														
15	QPSK	1	0	1817.5	1880	1907.5	22.1	0	24	0				
15	QPSK	1	37	20.87	20.80	20.74								
15	QPSK	1	74	20.87	20.88	20.83								
15	QPSK	1	74	20.83	20.72	20.66								
15	QPSK	36	0	20.81	20.78	20.88	22.1	0	24	0				
15	QPSK	36	20	20.59	20.87	20.81								
15	QPSK	36	36	20.61	20.84	20.52								
15	QPSK	75	0	20.69	20.66	20.73								
15	16QAM	1	0	20.71	20.73	20.65	22.1	0	24	0				
15	16QAM	1	37	20.35	20.57	20.45								
15	16QAM	1	74	20.47	20.68	20.57								
15	16QAM	36	0	20.74	20.68	20.54								
15	16QAM	36	20	20.58	20.53	20.41	22.1	0	24	0				
15	16QAM	36	36	20.55	20.58	20.48								
15	16QAM	75	0	20.63	20.64	20.50								
15	8QAM	1	0	20.72	20.71	20.56								
15	8QAM	1	37	20.48	20.68	20.47	22.1	0	24	0				
15	8QAM	1	74	20.48	20.61	20.42								
15	8QAM	36	0	20.59	20.64	20.56								
15	8QAM	36	20	20.55	20.58	20.45								
15	8QAM	36	36	20.53	20.50	20.51	22.1	0	24	0				
15	8QAM	75	0	20.66	20.60	20.52								
15	256QAM	1	0	18.28	18.41	18.25								
15	256QAM	1	37	18.96	19.12	18.98								
15	256QAM	1	74	19.13	18.27	19.17	20.5	1.6	20	4				
15	256QAM	36	0	18.21	18.11	18.28								
15	256QAM	36	20	19.08	19.01	18.85								
15	256QAM	36	39	19.12	18.96	18.80								
15	256QAM	75	0	18.18	18.27	18.22	20.5	1.6	20	4				
Channel														
Frequency (MHz)														
10	QPSK	1	0	20.79	20.80	20.74	22.1	0	24	0				
10	QPSK	1	25	20.56	20.58	20.65								
10	QPSK	1	49	20.55	20.72	20.61								
10	QPSK	25	0	20.80	20.80	20.83								
10	QPSK	25	12	20.65	20.58	20.57	22.1	0	24	0				
10	QPSK	25	25	20.66	20.69	20.48								
10	QPSK	80	0	20.62	20.73	20.63								
10	16QAM	1	0	20.62	20.73	20.63								
10	16QAM	1	25	20.40	20.54	20.41	22.1	0	24	0				
10	16QAM	1	49	20.47	20.68	20.57								
10	16QAM	25	0	20.70	20.68	20.64								
10	16QAM	25	12	20.50	20.55	20.48								
10	16QAM	25	25	20.50	20.52	20.49	22.1	0	24	0				
10	16QAM	50	0	20.53	20.68	20.48								
10	8QAM	1	0	20.65	20.75	20.57								
10	8QAM	1	25	20.45	20.46	20.42								
10	8QAM	1	49	20.58	20.56	20.36	22.1	0	24	0				
10	8QAM	25	0	20.58	20.59	20.62								
10	8QAM	25	12	20.42	20.62	20.45								
10	8QAM	25	25	20.50	20.52	20.49								
10	8QAM	50	0	20.61	20.61	20.58	20.5	1.6	20	4				
10	256QAM	1	0	19.28	19.22	18.99								
10	256QAM	1	25	18.92	18.96	18.92								
10	256QAM	1	49	18.97	18.94	18.95								
10	256QAM	25	0	19.15	19.15	19.15	20.5	1.6	20	4				
10	256QAM	25	12	19.83	19.83	19.82								
10	256QAM	25	25	18.98	18.16	18.91								
10	256QAM	50	0	19.18	19.11	19.01								
Channel														
Frequency (MHz)														
5	QPSK	1	0	20.63	20.83	20.64	22.1	0	24	0				
5	QPSK	1	12	20.64	20.59	20.60								
5	QPSK	1	24	20.60	20.73	20.70								
5	QPSK	12	0	20.76	20.75	20.79								
5	QPSK	12	7	20.63	20.65	20.57	22.1	0	24	0				
5	QPSK	12	13	20.60	20.64	20.51								
5	QPSK	25	0	20.67	20.77	20.72								
5	16QAM	1	0	20.61	20.68	20.61								
5	16QAM	1	12	20.45	20.54	20.43	22.1	0	24	0				
5	16QAM	1	24	20.45	20.64	20.57								
5	16QAM	12	0	20.66	20.70	20.64								
5	16QAM	12	7	20.54	20.56	20.49								
5	16QAM	12	13	20.57	20.45	20.51	22.1	0	24	0				
5	16QAM	25	0	20.83	20.65	20.51								
5	8QAM	1	0	20.67	20.76	20.58								
5	8QAM	1	12	20.44	20.48	20.49								
5	8QAM	1	24	20.51	20.57	20.39	22.1	0	24	0				
5	8QAM	12	0	20.58	20.62	20.56								
5	8QAM	12	7	20.45	20.59	20.49								
5	8QAM	12	13	20.61	20.57	20.49								
5	8QAM	25	0	20.60	20.81	20.63	22.1	0	24	0				
5	256QAM	1	0	19.17	19.20	18.94								
5	256QAM	1	12	18.98	19.18	19.11								
5	256QAM	1	24	18.98			20.5	1.6	20	4				
5	256QAM	12	0	19.11	19.20	19.05								
5	256QAM	12	7	19.17	19.15	19.22								
5	256QAM	12	13	19.09	19.07	19.06	20.5	1.6	20	4				
5	256QAM	25	0	18.99	18.14	19.11								
5	256QAM	25	12	18.99	18.99	18.99								
Channel														
Frequency (MHz)														
3	QPSK	1	0	20.70	20.95	20.63	22.1	0	24	0				
3	QPSK	1	12	20.64	20.60	20.63								
3	QPSK	1	24	20.55	20.82	20.60								
3	QPSK	8	0	20.62	20.79	20.72								
3	QPSK	8	7	20.62	20.62	20.62	22.1	0	24	0				
3	QPSK	8	14	20.61	20.61	20.61								
3	QPSK	8	21	20.61	20.60	20.54								
3	QPSK	16	0	20.67	20.69	20.71								
3	16QAM	1	0	20.67	20.76	20.58	22.1	0	24	0				
3	16QAM	1	14	20.49	20.67	20.61								
3	16QAM	1	28	20.57	20.59	20.40								
3	16QAM	8	0	20.52	20.53	20.39								
3	16QAM	8	7	20.47	20.48	20.45	22.1	0	24	0				
3	16QAM	8	14	20.58	20.61	20.49								
3	16QAM	8	21	20.60	20.62	20.52								
3	16QAM	16	0	20.60	20.68	20.63								
3	16QAM	16	7	20.51	20.59	20.43	22.1	0	24	0				
3	16QAM	16	14	20.58	20.62	20.55								
3	16QAM	16	21	20.62	20.62	20.55								
3	16QAM	32	0	20.66	20.66	20.66	20.5	1.6	20	4				
3	256QAM	1	0	19.15	19.15	19.15								
3	256QAM	1	7	19.15	19.15	19.15								
3	256QAM	8	0	19.16	19.08	19.08	20.5	1.6	20	4				
3	256QAM	8	7	18.96	19.03	18.97								
3	256QAM	8	14	19.05	19.04	19.04								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	20.74	20.90	20.61	22.1	0	24	0				
1.4	QPSK	1	14	20.62	20.60	20.62								
1.4	QPSK	1	28	20.55	20.73	20.60								
1.4	QPSK	8	0	20.60	20.80	20.72								
1.4	QPSK	8	7	20.55	20.60	20.60	22.1	0	24	0				
1.4	QPSK	8	14	20.62	20.62	20.62								
1.4	QPSK	8	21	20.63	20.59	20.53								
1.4	QPSK	16	0	20.77	20.79	20.79								
1.4	16QAM	1	0	20.71	20.82	20.69	22.1	0	24	0				
1.4	16QAM	1	7	20.38	20.62	20.45								
1.4	16QAM	1	14	20.58	20.61	20.43								
1.4	16QAM	8	0	20.68	20.66	20.65								
1.4	16QAM	8	7	20.58	20.61	20.57	22.1	0	24	0				
1.4	16QAM	8	14	20.63	20.63	20.63								
1.4	16QAM	8	21	20.63	20.63	20.63								
1.4	16QAM	16	0	20.68	20.68	20.68	22.1	0	24	0				
1.4	16QAM	16	7	20.73	20.73	20.63								
1.4	16QAM	16	14	20.65	20.65	20.65								
1.4	16QAM	16	21	20.68	20.68	20.68	22.1	0	24	0				
1.4	16QAM	32	0	20.73	20.73	20.63								
1.4	16QAM	32	7	20.65	20.65	20.65								
1.4	16QAM	32	14	20.68	20.68	20.68	20.5	1.6	20	4				
1.4	256QAM	1	0	19.17	19.15	19.15								
1.4	256QAM	1	7	19.17	19.15	19.15								
1.4	256QAM	8	0	19.11	19.11	19.10	20.5	1.6	20	4				
1.4	256													

Band 30 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR (dB)	
Channel									
Frequency (MHz)									
16	QPSK	1	0	20.69	20.70	20.68	21.6	0	
16	QPSK	1	24	20.64	20.65	20.62			
16	QPSK	1	48	20.56	20.41	20.47			
16	QPSK	25	0	20.48	20.45	20.44			
16	QPSK	25	12	20.37	20.48	20.44	21.6	0	
16	QPSK	25	24	20.30	20.46	20.44			
16	QPSK	50	0	20.37	20.39	20.39			
16	16QAM	1	0	20.33	20.33	20.33			
16	16QAM	1	24	20.25	20.25	20.25	21.6	0	
16	16QAM	1	48	20.17	20.17	20.17			
16	16QAM	25	0	20.10	20.10	20.10			
16	16QAM	25	12	20.02	20.02	20.02			
16	16QAM	25	24	19.94	19.94	19.94	21	0.6	
16	16QAM	50	0	19.86	19.86	19.86			
16	16QAM	1	0	19.37	19.37	19.37			
16	16QAM	1	24	19.29	19.29	19.29			
16	16QAM	1	48	19.21	19.21	19.21	21.6	0.6	
16	16QAM	25	0	19.13	19.13	19.13			
16	16QAM	25	12	19.05	19.05	19.05			
16	16QAM	25	24	18.97	18.97	18.97			
16	16QAM	50	0	18.89	18.89	18.89	18	3.6	
16	16QAM	1	24	18.81	18.81	18.81			
16	16QAM	1	48	18.73	18.73	18.73			
16	16QAM	25	0	18.65	18.65	18.65			
16	16QAM	25	12	18.57	18.57	18.57	21	0.6	
16	16QAM	25	24	18.49	18.49	18.49			
16	16QAM	50	0	18.41	18.41	18.41			
16	16QAM	1	0	18.33	18.33	18.33			
16	16QAM	1	24	18.25	18.25	18.25	20	1.6	
16	16QAM	1	48	18.17	18.17	18.17			
16	16QAM	25	0	18.09	18.09	18.09			
16	16QAM	25	12	18.01	18.01	18.01			
16	16QAM	25	24	17.93	17.93	17.93	18	3.6	
16	16QAM	50	0	17.85	17.85	17.85			
16	16QAM	1	24	17.77	17.77	17.77			
16	16QAM	1	48	17.69	17.69	17.69			
16	16QAM	25	0	17.61	17.61	17.61	21	0.6	
16	16QAM	25	12	17.53	17.53	17.53			
16	16QAM	25	24	17.45	17.45	17.45			
16	16QAM	50	0	17.37	17.37	17.37			
16	16QAM	1	0	17.29	17.29	17.29	20	1.6	
16	16QAM	1	24	17.21	17.21	17.21			
16	16QAM	1	48	17.13	17.13	17.13			
16	16QAM	25	0	17.05	17.05	17.05			
16	16QAM	25	12	16.97	16.97	16.97	18	3.6	
16	16QAM	25	24	16.89	16.89	16.89			
16	16QAM	50	0	16.81	16.81	16.81			
16	16QAM	1	24	16.73	16.73	16.73			
16	16QAM	1	48	16.65	16.65	16.65	21	0.6	
16	16QAM	25	0	16.57	16.57	16.57			
16	16QAM	25	12	16.49	16.49	16.49			
16	16QAM	25	24	16.41	16.41	16.41			
16	16QAM	50	0	16.33	16.33	16.33	20	1.6	
16	16QAM	1	0	16.25	16.25	16.25			
16	16QAM	1	24	16.17	16.17	16.17			
16	16QAM	1	48	16.09	16.09	16.09			
16	16QAM	25	0	16.01	16.01	16.01	18	3.6	
16	16QAM	25	12	15.93	15.93	15.93			
16	16QAM	25	24	15.85	15.85	15.85			
16	16QAM	50	0	15.77	15.77	15.77			
16	16QAM	1	0	15.69	15.69	15.69	21	0.6	
16	16QAM	1	24	15.61	15.61	15.61			
16	16QAM	1	48	15.53	15.53	15.53			
16	16QAM	25	0	15.45	15.45	15.45			
16	16QAM	25	12	15.37	15.37	15.37	20	1.6	
16	16QAM	25	24	15.29	15.29	15.29			
16	16QAM	50	0	15.21	15.21	15.21			
16	16QAM	1	0	15.13	15.13	15.13			
16	16QAM	1	24	15.05	15.05	15.05	18	3.6	
16	16QAM	1	48	14.97	14.97	14.97			
16	16QAM	25	0	14.89	14.89	14.89			
16	16QAM	25	12	14.81	14.81	14.81			
16	16QAM	25	24	14.73	14.73	14.73	21	0.6	
16	16QAM	50	0	14.65	14.65	14.65			
16	16QAM	1	0	14.57	14.57	14.57			
16	16QAM	1	24	14.49	14.49	14.49			
16	16QAM	1	48	14.41	14.41	14.41	20	1.6	
16	16QAM	25	0	14.33	14.33	14.33			
16	16QAM	25	12	14.25	14.25	14.25			
16	16QAM	25	24	14.17	14.17	14.17			
16	16QAM	50	0	14.09	14.09	14.09	18	3.6	
16	16QAM	1	0	14.01	14.01	14.01			
16	16QAM	1	24	13.93	13.93	13.93			
16	16QAM	1	48	13.85	13.85	13.85			
16	16QAM	25	0	13.77	13.77	13.77	21	0.6	
16	16QAM	25	12	13.69	13.69	13.69			
16	16QAM	25	24	13.61	13.61	13.61			
16	16QAM	50	0	13.53	13.53	13.53			
16	16QAM	1	0	13.45	13.45	13.45	20	1.6	
16	16QAM	1	24	13.37	13.37	13.37			
16	16QAM	1	48	13.29	13.29	13.29			
16	16QAM	25	0	13.21	13.21	13.21			
16	16QAM	25	12	13.13	13.13	13.13	18	3.6	
16	16QAM	25	24	13.05	13.05	13.05			
16	16QAM	50	0	12.97	12.97	12.97			
16	16QAM	1	0	12.89	12.89	12.89			
16	16QAM	1	24	12.81	12.81	12.81	21	0.6	
16	16QAM	1	48	12.73	12.73	12.73			
16	16QAM	25	0	12.65	12.65	12.65			
16	16QAM	25	12	12.57	12.57	12.57			
16	16QAM	25	24	12.49	12.49	12.49	20	1.6	
16	16QAM	50	0	12.41	12.41	12.41			
16	16QAM	1	0	12.33	12.33	12.33			
16	16QAM	1	24	12.25	12.25	12.25			
16	16QAM	1	48	12.17	12.17	12.17	18	3.6	
16	16QAM	25	0	12.09	12.09	12.09			
16	16QAM	25	12	12.01	12.01	12.01			
16	16QAM	25	24	11.93	11.93	11.93			
16	16QAM	50	0	11.85	11.85	11.85	21	0.6	
16	16QAM	1	0	11.77	11.77	11.77			
16	16QAM	1	24	11.69	11.69	11.69			
16	16QAM	1	48	11.61	11.61	11.61			
16	16QAM	25	0	11.53	11.53	11.53	20	1.6	
16	16QAM	25	12	11.45	11.45	11.45			
16	16QAM	25	24	11.37	11.37	11.37			
16	16QAM	50	0	11.29	11.29	11.29			
16	16QAM	1	0	11.21	11.21	11.21	18	3.6	
16	16QAM	1	24	11.13	11.13	11.13			
16	16QAM	1	48	11.05	11.05	11.05			
16	16QAM	25	0	10.97	10.97	10.97			

Band 38 Ant1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up Int (s/min)	MPE (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	20.42	20.55	20.52	22	0			
20	QPSK	1	49	20.45	20.53	20.31					
20	QPSK	1	99	20.32	20.38	20.33					
20	QPSK	50	0	19.70	19.70	19.71					
20	QPSK	50	24	19.52	19.57	19.41	21	1			
20	QPSK	50	49	19.40	19.57	19.54					
20	QPSK	100	0	19.59	19.65	19.54					
20	16QAM	1	0	19.61	19.58	19.55					
20	16QAM	1	49	19.44	19.57	19.33	21	1			
20	16QAM	1	99	19.50	19.41	19.41					
20	16QAM	50	0	18.46	18.39	18.51					
20	16QAM	50	24	18.42	18.39	18.46					
20	16QAM	50	50	18.26	18.48	18.37	20	2			
20	16QAM	100	0	18.22	18.54	18.37					
20	16QAM	1	0	18.75	18.71	18.77					
20	16QAM	1	49	18.74	18.71	18.71					
20	16QAM	1	99	18.61	18.63	18.65	20	2			
20	16QAM	50	0	17.80	17.83	17.87					
20	16QAM	50	24	17.60	17.62	17.57					
20	16QAM	50	50	17.65	17.57	17.55					
20	16QAM	100	0	17.71	17.66	17.84	19	3			
20	256QAM	1	0	15.81	15.78	15.76					
20	256QAM	1	49	15.71	15.80	15.63					
20	256QAM	1	99	15.72	15.66	15.73					
20	256QAM	50	0	15.64	15.67	15.66	17	5			
20	256QAM	50	24	15.61	15.59	15.59					
20	256QAM	50	50	15.62	15.68	15.64					
20	256QAM	100	0	15.62	15.67	15.67					
Channel											
Frequency (MHz)											
15	QPSK	1	0	20.42	20.55	20.42	22	0			
15	QPSK	1	37	20.38	20.49	20.24					
15	QPSK	1	74	20.20	20.29	20.21					
15	QPSK	36	0	19.84	19.88	19.59					
15	QPSK	36	20	19.45	19.45	19.29	21	1			
15	QPSK	36	36	19.42	19.42	19.29					
15	QPSK	75	0	19.51	19.57	19.50					
15	16QAM	1	0	19.51	19.50	19.48					
15	16QAM	1	37	19.39	19.50	19.23	21	1			
15	16QAM	1	74	19.40	19.37	19.36					
15	16QAM	36	0	18.41	18.51	18.41					
15	16QAM	36	36	18.33	18.34	18.35					
15	16QAM	36	39	18.18	18.43	18.25	20	2			
15	16QAM	75	0	18.40	18.53	18.27					
15	16QAM	1	0	18.84	18.68	18.70					
15	16QAM	1	37	18.67	18.65	18.67					
15	16QAM	74	0	18.53	18.50	18.62	19	3			
15	16QAM	36	20	17.67	17.50	17.44					
15	16QAM	36	39	17.52	17.50	17.44					
15	16QAM	75	0	17.52	17.54	17.56					
15	256QAM	1	0	15.73	15.65	15.65	17	5			
15	256QAM	1	37	15.68	15.62	15.63					
15	256QAM	36	0	15.56	15.50	15.57					
15	256QAM	36	39	15.57	15.57	15.59					
15	256QAM	36	39	15.57	15.57	15.59	17	5			
15	256QAM	75	0	15.70	15.66	15.63					
15	256QAM	75	0	15.70	15.66	15.63					
15	256QAM	75	0	15.70	15.66	15.63					
Channel											
Frequency (MHz)											
10	QPSK	1	0	20.42	20.55	20.42	22	0			
10	QPSK	1	25	20.35	20.46	20.23					
10	QPSK	1	49	20.19	20.34	20.25					
10	QPSK	1	99	20.15	20.37	20.16					
10	QPSK	25	12	19.41	19.47	19.34	21	1			
10	QPSK	25	25	19.38	19.59	19.46					
10	QPSK	50	0	19.45	19.50	19.42					
10	16QAM	1	0	19.58	19.54	19.51					
10	16QAM	1	0	19.58	19.54	19.51	21	1			
10	16QAM	1	25	19.38	19.60	19.22					
10	16QAM	1	49	19.37	19.32	19.29					
10	16QAM	25	0	18.39	18.48	18.42					
10	16QAM	25	19	18.33	18.29	18.35	20	2			
10	16QAM	25	19	18.36	18.35	18.28					
10	16QAM	50	0	18.40	18.53	18.16					
10	16QAM	50	0	18.40	18.53	18.16					
10	16QAM	1	25	18.70	18.65	18.64	20	2			
10	16QAM	1	49	18.55	18.52	18.57					
10	16QAM	25	0	17.47	17.51	17.41					
10	16QAM	25	12	17.54	17.55	17.52					
10	16QAM	25	25	17.59	17.48	17.47	19	3			
10	16QAM	50	0	17.61	17.57	17.59					
10	256QAM	1	0	15.73	15.69	15.64					
10	256QAM	1	25	15.66	15.52	15.59					
10	256QAM	1	49	15.68	15.56	15.60	17	5			
10	256QAM	25	0	15.60	15.55	15.60					
10	256QAM	25	12	15.61	15.49	15.48					
10	256QAM	25	25	15.58	15.57	15.51					
10	256QAM	50	0	15.65	15.63	15.66	17	5			
10	256QAM	50	0	15.65	15.63	15.66					
10	256QAM	50	0	15.65	15.63	15.66					
10	256QAM	50	0	15.65	15.63	15.66					

Band 41 Ant1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up Int (s/min)	MPE (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	21.59	22.04	22.03	21.97	21.98	21.88	23	0
20	QPSK	1	49	21.59	21.98	21.88	21.67	21.89	21.73		
20	QPSK	1	99	21.67	22.03	21.96	21.78	21.74	21.76		
20	QPSK	50	0	21.81	21.95	22.03	21.79	21.75	21.85		
20	QPSK	50	24	21.87	21.73	21.84	21.80	21.80	21.63	23	0
20	QPSK	50	49	21.70	21.78	21.77	21.70	21.76	21.76		
20	QPSK	100	0	21.78	21.94	21.97	21.67	21.63	21.67		
20	16QAM	1	0	21.76	21.83	22.03	21.60	21.74	21.70		
20	16QAM	1	49	21.58	21.93	21.83	21.65	21.85	21.61	23	0
20	16QAM	1	99	21.53	21.93	21.71	21.65	21.61	21.61		
20	16QAM	50	0	21.86	22.00	22.05	21.86	21.75	21.85		
20	16QAM	50	24	21.86	21.82	21.90	21.70	21.70	21.70		
20	16QAM	50	49	21.58	22.00	21.80	21.76	21.76	21.61	22.5	0.5
20	16QAM	100	0	21.73	21.86	21.92	21.75	21.74	21.74		
20	16QAM	100	24	21.58	21.82	21.90	21.58	21.58	21.45		
20	64QAM	1	49	21.56	21.58	21.65	21.70	21.69	21.69		
20	64QAM	1	99	21.56	21.58	21.65	21.65	21.65	21.55	20.5	2.5
20	64QAM	50	0	21.78	21.82	21.85	21.82	21.73	21.82		
20	64QAM	50	24	21.54	21.69	21.61	21.58	21.68	21.68		
20	64QAM	50	49	21.56	21.62	21.67	21.56	21.62	21.62		
20	256QAM	1	0	19.34	19.75	19.85	19.58	19.48	19.48	20.5	2.5
20	256QAM	1	49	19.34	19.68	19.77	19.45	19.28	19.28		
20	256QAM	1	99	19.40	19.66	19.65	19.56	19.38	19.38		
20	256QAM	50	0	19.56	19.69	19.71	19.50	19.42	19.42		
20	256QAM	50	24	19.40	19.54	19.52	19.31	19.34	19.34	20.5	2.5
20	256QAM	50	49	19.44	19.62	19.62	19.42	19.38	19.38		
20	256QAM	100	0	19.72	19.77	19.62	19.42	19.39	19.39		
20	256QAM	100	24	19.40	19.54	19.54	19.42	19.45	19.45		
Channel											
Frequency (MHz)											
20	QPSK	1	0	21.73	21.96	21.93	21.77	21.78	21.68	23	0
20	QPSK	1	37	21.77	21.96	21.80	21.59	21.77	21.73		
20	QPSK	1	74	21.54	21.86	21.71	21.75	21.63	21.63		
20	QPSK	50	0	21.78	21.86	21.79	21.77	21.71	21.81		
20	QPSK	50	24	21.58	21.66	21.63	21.56	21.48	21.48	23	0
20	QPSK	50	49	21.57	21.63	21.63	21.56	21.67	21.67		
20	QPSK	100	0	21.70	21.90	21.85	21.80	21.73	21.85		
20	16QAM	1	0	21.72	21.90	21.65	21.70	21.68	21.68		
20	16QAM	1	37	21.74	21.89	21.69	21.69	21.68	21.68	23	0
20	16QAM	1	74	21.43	21.81	21.60	21.62	21.49	21.49		
20	16QAM	50	0	21.77	21.97	21.86	21.79	21.71	21.71		
20	16QAM	50	24	21.74	21.82	21.82	21.62	21.63	21.63		
20	16QAM	50	49	21.47	21.97	21.75	21.72	21.72	21.68	22.5	0.5
20	16QAM	100	0	21.56	21.76	21.71	21.62	21.68	21.68		
20	64QAM	1	0	21.40	21.48	21.77	21.46	21.41	21.41		
20	64QAM	1	37	21.51	21.48	21.80	21.63	21.68	21.67		
20	64QAM	1	74	21.58	21.43	21.80	21.72	21.48	21.48	23	0
20	64QAM	50	0	21.72	21.76	21.69	21.70	21.67	21.67		
20	64QAM	50	24	21.44	21.63	21.84	21.66	21.63	21.63		
20	64QAM	50	49	21.48	21.63	21.84	21.66	21.63	21.63		
20	64QAM	75	0	21.56	21.73	21.81	21.70	21.50	21.50	20.5	2.5
20	256QAM	1	0	19.34	19.66	19.75	19.47	19.23	19.23		
20	256QAM	1	37	19.30	19.56	19.58	19.33	19.23	19.23		
20	256QAM	1	74	19.31	19.57	19.59	19.47	19.20	19.20		
20	256QAM	50	0	19.58	19.75	19.84	19.49	19.40	19.40	20.5	2.5
20	256QAM	50	24	19.41	19.75	19.46	19.16	19.26	19.26		
20	256QAM	50	49	19.41	19.20	19.47	19.37	19.46	19.46		
20	256QAM	75	0	19.36	19.54	19.48	19.32	19.23	19.23		
Channel											
Frequency (MHz)											
20	QPSK	1	0	21.70	21.93	21.93	21.70	21.71	21.61	23	0
20	QPSK	1	25	21.80	21.90	21.81	21.62	21.62	21.62		
20	QPSK	1	50	21.57	21.84	21.84	21.57	21.57	21.57		
20	QPSK	25	0	21.71	21.82	21.82	21.75	21.66	21.66		
20	QPSK	25	12	21.61	21.95	21.81	21.62	21.45	21.45	23	0
20	QPSK	25	37	21.60	21.82	21.82	21.57	21.68	21.68		
20	QPSK	50	0	21.66	21.84	21.82	21.78	21.54	21.54		
20	16QAM	1	0	21.73	21.87	21.65	21.70	21.74	21.74		
20	16QAM	1	25	21.72	21.86	21.68	21.68	21.68	21.68	23	0
20	16QAM	1	50	21.47	21.87	21.68	21.62	21.52	21.52		
20	16QAM	25	0	21.73	21.87	22.02	21.76	21.86	21.86		
20	16QAM	25	12	21.68	21.85	21.85	21.66	21.75	21.75		
20	16QAM	25	25	21.65	21.96	21.67	21.62	21.54	21.54	22.5	0.5
20	16QAM	50	0	21.68	21.75	21.75	21.65	21.65	21.65		
20	64QAM	1	0	21.50	21.51	21.67	21.48	21.65	21.65		
20	64QAM	1	25	21.65	21.65	21.62	21.58	21.53	21.53		
20	64QAM	1	50	21.58	21.63	21.63	21.58	21.43	21.43	23	0
20	64QAM	25	0	21.67	21.70	21.83	21.70	21.68	21.68		
20	64QAM	25	12	21.46	21.58	21.83	21.47	21.54	21.54		
20	64QAM	25	25	21.53	21.56	21.81	21.47	21.56	21.56		
20	64QAM	50	0	21.61	21.75	21.68	21.68	21.43	21.43	22.5	0.5
20	64QAM	50	25	21.42	21.60	21.86	21.46	21.50	21.50		
20	256QAM	1	25	19.32	19.51	19.59	19.27	19.23	19.23		
20	256QAM	1	49	19.21	19.47	19.67	19.41	19.18	19.18		
20	256QAM	1	73	19.52	19.53	19.47	19.40	19.26	19.26	20.5	2.5
20	256QAM	25	12	19.26	19.34	19.06	19.14	19.12	19.12		
20	256QAM	25	25	19.40	19.32	19.43	19.26	19.42	19.42		
20	256QAM	50	0	19.36	19.36	19.40	19.36	19.26	19.26		
Channel											
Frequency (MHz)											
20	QPSK	1	0	21.56	21.96	22.04	21.93	21.93	21.83	23	0
20	QPSK	1	12	21.61	21.93	21.83	21.62	21.77	21.73		
20	QPSK	1	25	21.57	21.96	21.86	21.62	21.71	21.63		
20	QPSK	12	0	21.76	21.82	21.93	21.80	21.68	21.68		
20	QPSK	12	7	21.65	21.67	21.85	21.68	21.69	21.69	23	0
20	QPSK	12	21	21.62	21.66	21.86	21.62	21.67	21.67		
20	QPSK	25	0	21.68	21.82	21.90	21.71	21.57	21.57		
20	16QAM	1	0	21.74	21.91	21.85	21.71	21.74	21.74		
20	16QAM	1	12	21.68	21.83	21.87	21.64	21.76	21.76	23	0
20	16QAM	1	25	21.61	21.81	21.58	21.60	21.57	21.57		
20	16QAM	12	7	21.70	21.69	21.66	21.54	21.66	21.66		
20	16QAM	12	21	21.60	21.58	21.68	21.62	21.65	21.65		
20	64QAM	1	0	21.50	21.51	21.67	21.48	21.65	21.65	23	0
20	64QAM	1	12	21.65	21.65	21.62	21.58	21.53	21.53		
20	64QAM	1	25	21.58	21.63	21.63	21.58	21.43	21.43		
20	64QAM	12	0	21.66	21.70	21.86	21.74	21.68	21.68		
20	64QAM	12	7	21.66	21.71	21.87	21.62	21.66	21.66	22.5	0.5
20	64QAM	12	21	21.49	21.52	21.67	21.57	21.53	21.53		
20	64QAM	25	0	21.43	21.61	21.81	21.46	21.66	21.66		
20	64QAM	25	0	21.58	21.78	21.79	21.67	21.58	21.58		
20	256QAM	1	0	19.32	19.50	19.58	19.28	19.23	19.23	20.5	2.5
20	256QAM	1	24	19.31	19.52	19.58	19.47	19.20	19.20		
20	256QAM	12	7	19.50	19.50	19.46	19.46	19.22	19.22		
20	256QAM	12	7	19.41	19.22	19.52	19.18	19.20	19.20		
20	256QAM	12	21	19.31	19.22	19.42	19.25	19.47	19.47	20.5	2.5
20	256QAM	12	21	19.36	19.19	19.40	19.25	19.22	19.22		



Band 48_FCC Ant1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power High Ch / Freqs	Power High Mod Ch / Freqs	Power High Mod Ch / Freqs	Turn-up time (dBm)	MPP (dB)	
Channel				56540	56550	56550	56560	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56610	56620	56630	56640			
20	QPSK	1	0	19.02	19.20	19.04	19.06	20	0	
20	QPSK	1	49	18.88	19.05	19.03	18.89			
20	QPSK	1	99	19.02	19.11	19.07	19.08			
20	QPSK	50	0	19.03	19.08	19.07	19.04			
20	QPSK	50	24	18.80	19.00	18.98	18.91	20	0	
20	QPSK	50	39	18.90	19.02	18.98	18.94			
20	QPSK	100	0	18.82	19.03	19.01	18.89			
20	16QAM	1	0	18.89	19.68	18.86	18.71			
20	16QAM	1	49	18.82	19.66	18.58	18.59	20	0	
20	16QAM	1	99	18.50	18.66	18.56	18.59			
20	16QAM	50	0	18.97	19.70	18.94	18.64			
20	16QAM	50	24	18.81	19.84	18.52	18.54			
20	8QAM	100	0	18.54	18.66	18.54	18.54	20	0	
20	8QAM	1	0	18.35	18.45	18.42	18.42			
20	8QAM	1	49	18.53	18.62	18.58	18.58			
20	8QAM	1	99	18.35	18.35	18.36	18.31			
20	8QAM	50	0	18.42	18.45	18.39	18.42	20	0	
20	8QAM	50	24	18.31	18.40	18.32	18.34			
20	8QAM	50	50	18.25	18.32	18.28	18.24			
20	8QAM	100	0	18.37	18.39	18.32	18.37			
20	25QAM	1	0	18.45	18.45	18.37	18.38	18	2	
20	25QAM	1	49	18.30	18.37	18.33	18.31			
20	25QAM	1	99	18.25	18.32	18.28	18.26			
20	25QAM	50	0	18.71	18.18	18.14	18.12			
20	25QAM	50	24	18.05	18.08	18.02	18.04	18	2	
20	25QAM	50	50	18.10	18.14	18.06	18.06			
20	25QAM	100	0	18.04	18.11	18.02	18.08			
20	25QAM	100	0	18.04	18.11	18.02	18.08			
Channel				56515	56520	56560	56565	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56515	56520	56560	56565			
15	QPSK	1	0	18.03	19.07	18.39	18.38	20	0	
15	QPSK	1	37	18.74	19.01	18.88	18.77			
15	QPSK	1	74	18.90	19.02	18.96	18.88			
15	QPSK	86	0	18.87	19.02	19.00	18.81			
15	QPSK	86	20	18.72	18.93	18.89	18.87	20	0	
15	QPSK	75	0	18.72	18.83	18.88	18.88			
15	QPSK	75	0	18.78	18.94	18.95	18.82			
15	16QAM	1	0	18.59	18.63	18.62	18.67			
15	16QAM	1	37	18.57	18.54	18.52	18.45	20	0	
15	16QAM	1	74	18.40	18.59	18.54	18.57			
15	16QAM	58	0	18.55	18.61	18.60	18.58			
15	16QAM	86	0	18.51	18.54	18.40	18.47			
15	16QAM	86	39	18.51	18.53	18.42	18.43	20	0	
15	16QAM	75	0	18.48	18.61	18.50	18.42			
15	8QAM	1	0	18.34	18.40	18.39	18.37			
15	8QAM	1	37	18.40	18.60	18.53	18.51			
15	8QAM	1	74	18.25	18.31	18.16	18.26	20	0	
15	8QAM	86	0	18.35	18.35	18.33	18.29			
15	8QAM	58	20	18.28	18.31	18.24	18.24			
15	8QAM	86	39	18.16	18.25	18.24	18.25			
15	8QAM	75	0	18.31	18.37	18.29	18.27	18	2	
15	25QAM	1	0	18.41	18.37	18.33	18.32			
15	25QAM	1	37	18.20	18.34	18.28	18.26			
15	25QAM	1	74	18.18	18.28	18.20	18.18			
15	25QAM	58	0	18.03	18.12	18.10	18.06	18	2	
15	25QAM	86	20	18.07	18.00	18.02	18.05			
15	25QAM	86	39	18.03	18.07	18.03	18.04			
15	25QAM	75	0	18.02	18.06	18.03	18.02			
Channel				56990	56995	57030	56990	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56990	56995	57030	56990			
10	QPSK	1	0	18.90	19.16	19.02	18.97	20	0	
10	QPSK	1	25	18.77	18.98	18.90	18.80			
10	QPSK	1	49	18.97	19.08	19.04	18.93			
10	QPSK	25	0	18.84	19.09	19.01	18.92			
10	QPSK	25	12	18.70	18.98	18.91	18.85	20	0	
10	QPSK	25	25	18.78	19.91	18.95	18.82			
10	QPSK	50	0	18.74	19.92	18.96	18.82			
10	16QAM	1	0	18.03	18.67	18.53	18.64			
10	16QAM	1	25	18.48	18.64	18.49	18.50	20	0	
10	16QAM	1	49	18.41	18.62	18.52	18.47			
10	16QAM	25	0	18.40	18.58	18.51	18.61			
10	16QAM	25	12	18.50	18.61	18.49	18.45			
10	16QAM	25	12	18.50	18.61	18.49	18.45	20	0	
10	8QAM	25	0	18.30	18.40	18.39	18.33			
10	8QAM	1	25	18.40	18.54	18.53	18.49			
10	8QAM	1	49	18.27	18.30	18.20	18.28			
10	8QAM	25	0	18.40	18.40	18.31	18.29	20	0	
10	8QAM	25	12	18.23	18.33	18.25	18.26			
10	8QAM	25	25	18.18	18.24	18.22	18.18			
10	8QAM	80	0	18.27	18.30	18.27	18.29			
10	25QAM	1	0	18.41	18.41	18.35	18.32	18	2	
10	25QAM	1	25	18.25	18.39	18.25	18.25			
10	25QAM	1	49	18.51	18.23	18.25	18.18			
10	25QAM	25	0	18.04	18.11	18.09	18.08			
10	25QAM	25	12	18.00	18.04	18.05	18.04	18	2	
10	25QAM	25	25	18.07	18.00	18.04	18.03			
10	25QAM	50	0	18.03	18.03	18.03	18.06			
Channel				56995	56997	57041	56997.5	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56995	56997	57041	56997.5			
5	QPSK	1	0	18.91	19.14	19.02	18.93	20	0	
5	QPSK	1	12	18.70	19.09	19.02	18.81			
5	QPSK	1	24	18.97	19.06	19.01	18.96			
5	QPSK	12	0	18.80	18.99	18.97	18.81			
5	QPSK	12	7	18.89	18.89	18.85	18.89	20	0	
5	QPSK	12	13	18.74	18.95	18.94	18.77			
5	QPSK	25	0	18.78	18.66	18.97	18.78			
5	16QAM	1	0	18.97	18.67	18.54	18.66			
5	16QAM	1	12	18.48	18.54	18.49	18.51	20	0	
5	16QAM	1	24	18.40	18.54	18.47	18.48			
5	16QAM	12	0	18.44	18.58	18.59	18.53			
5	16QAM	12	7	18.58	18.54	18.39	18.45			
5	16QAM	12	13	18.48	18.51	18.37	18.50	20	0	
5	16QAM	25	0	18.40	18.61	18.53	18.46			
5	8QAM	1	0	18.31	18.37	18.36	18.35			
5	8QAM	1	12	18.43	18.54	18.52	18.59			
5	8QAM	1	24	18.24	18.28	18.20	18.25	20	0	
5	8QAM	12	0	18.34	18.43	18.31	18.40			
5	8QAM	12	7	18.25	18.31	18.29	18.26			
5	8QAM	12	13	18.18	18.27	18.20	18.18			
5	8QAM	25	0	18.30	18.30	18.24	18.30	18	2	
5	25QAM	1	0	18.41	18.35	18.31	18.32			
5	25QAM	1	12	18.25	18.30	18.28	18.21			
5	25QAM	1	24	18.17	18.24	18.20	18.18			
5	25QAM	12	0	18.04	18.11	18.08	18.08	18	2	
5	25QAM	12	7	18.00	18.01	18.03	18.03	18	2	



Band 2 Ant2									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Fires	Power High Ch./Fires	Power Low Ch./Fires	Power High Ch./Fires	Turn-up time (secs)	MFR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.70	21.70	21.74			
20	QPSK	1	49	21.81	21.86	21.84		23.5	0
20	QPSK	1	99	21.82	21.86	21.86			
20	QPSK	50	0	21.86	21.73	21.68			
20	QPSK	50	24	21.86	21.81	21.82		23.5	0
20	QPSK	50	50	21.82	21.80	21.80			
20	QPSK	100	0	21.81	21.80	21.83			
20	16QAM	1	49	21.87	21.87	21.83			
20	16QAM	1	49	21.87	21.86	21.86		23.5	0
20	16QAM	1	99	21.83	21.49	21.50			
20	16QAM	50	0	21.12	21.17	21.25			
20	16QAM	50	24	20.92	21.17	20.98		22.5	1
20	16QAM	50	50	20.92	21.18	21.00			
20	16QAM	100	0	21.04	21.22	20.86			
20	64QAM	1	0	21.24	21.25	21.18		22.5	1
20	64QAM	1	49	21.00	21.12	21.06			
20	64QAM	1	99	21.10	21.30	21.22			
20	64QAM	50	0	19.85	20.01	19.79			
20	64QAM	50	24	19.94	20.09	19.78		21.5	2
20	64QAM	50	50	19.78	20.00	19.86			
20	64QAM	100	0	19.74	20.16	19.93			
20	256QAM	1	49	18.08	18.02	17.83		19.5	4
20	256QAM	1	99	18.12	18.00	18.15			
20	256QAM	50	0	17.96	18.00	18.01			
20	256QAM	50	24	17.95	17.91	17.82		19.5	4
20	256QAM	50	50	17.87	18.01	18.08			
20	256QAM	100	0	17.86	18.00	18.04			
Channel									
Frequency (MHz)									
15	QPSK	1	0	18.07	18.00	18.05		23.5	0
15	QPSK	1	0	18.07	18.00	18.05			
15	QPSK	1	74	21.39	21.61	21.69			
15	QPSK	36	39	21.39	21.68	21.43			
15	QPSK	36	39	21.27	21.39	21.47		23.5	0
15	QPSK	75	0	21.52	21.59	21.41			
15	16QAM	1	0	21.38	21.48	21.55			
15	16QAM	1	37	21.37	21.39	21.24		23.5	0
15	16QAM	36	39	21.38	21.48	21.55			
15	16QAM	36	74	21.04	20.98	21.19			
15	16QAM	36	20	20.72	21.08	20.88		22.5	1
15	16QAM	36	20	20.72	21.08	20.88			
15	16QAM	75	0	20.92	21.07	21.02			
15	64QAM	1	0	21.11	21.18	21.02		22.5	1
15	64QAM	36	39	20.87	20.92	20.87			
15	64QAM	1	74	20.91	21.23	21.13			
15	64QAM	36	0	19.95	19.77	19.61			
15	64QAM	36	74	19.95	19.86	19.82		21.5	2
15	64QAM	36	39	19.94	19.95	19.95			
15	64QAM	75	0	19.86	19.95	19.97			
15	256QAM	1	0	17.86	17.86	17.86		19.5	4
15	256QAM	1	74	18.05	17.97	17.83			
15	256QAM	1	74	18.05	17.94	17.83			
15	256QAM	36	39	17.82	17.87	17.84		19.5	4
15	256QAM	36	39	17.77	17.82	18.01			
15	256QAM	75	0	17.86	17.86	17.86			
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.81	21.79	21.81		23.5	0
10	QPSK	1	25	21.35	21.54	21.46			
10	QPSK	1	49	21.45	21.52	21.51			
10	QPSK	12	0	21.48	21.48	21.48			
10	QPSK	25	12	21.40	21.39	21.42			
10	QPSK	25	25	21.34	21.49	21.42			
10	QPSK	50	0	21.22	21.43	21.49			
10	16QAM	1	0	21.22	21.53	21.47		23.5	0
10	16QAM	1	25	21.28	21.38	21.39			
10	16QAM	25	12	21.04	21.05	21.11			
10	16QAM	25	12	20.64	21.02	20.78		22.5	1
10	16QAM	25	12	20.67	21.02	20.78			
10	16QAM	50	0	20.50	20.95	21.02			
10	64QAM	1	0	21.12	21.07	20.96		22.5	1
10	64QAM	25	25	20.88	20.92	21.00			
10	64QAM	1	49	20.94	21.17	21.02			
10	64QAM	25	0	19.79	19.87	19.74			
10	64QAM	25	12	19.81	19.78	19.84		21.5	2
10	64QAM	25	25	19.92	19.94	19.81			
10	64QAM	50	0	19.92	19.89	19.75			
10	256QAM	1	0	17.96	17.96	17.96		19.5	4
10	256QAM	1	49	17.96	17.96	17.96			
10	256QAM	1	49	17.96	17.96	17.96			
10	256QAM	25	12	17.81	17.78	17.81		19.5	4
10	256QAM	25	25	17.87	17.87	18.02			
10	256QAM	50	0	17.81	18.02	18.03			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.81	21.79	21.81		23.5	0
5	QPSK	1	12	21.57	21.62	21.29			
5	QPSK	1	24	21.53	21.53	21.54			
5	QPSK	12	0	21.48	21.48	21.48			
5	QPSK	12	7	21.26	21.43	21.47			
5	QPSK	12	13	21.45	21.40	21.50			
5	QPSK	12	13	21.47	21.44	21.44			
5	16QAM	1	0	21.33	21.52	21.44		23.5	0
5	16QAM	1	12	21.11	21.35	21.31			
5	16QAM	12	0	21.29	21.25	21.28			
5	16QAM	12	0	20.95	21.04	20.99			
5	16QAM	12	7	20.65	20.92	20.79		22.5	1
5	16QAM	12	13	20.89	21.02	20.83			
5	16QAM	25	0	20.80	21.11	21.04			
5	16QAM	1	0	21.12	21.08	21.02		22.5	1
5	64QAM	1	0	20.83	20.80	21.00			
5	64QAM	1	24	20.89	21.10	21.17			
5	64QAM	12	0	19.67	19.90	19.68			
5	64QAM	12	13	19.78	19.90	19.89		21.5	2
5	64QAM	12	13	19.81	19.88	19.78			
5	64QAM	25	0	19.61	19.91	19.73			
5	256QAM	1	0	17.93	18.11	18.02			
5	256QAM	1	12	17.79	17.85	17.74		19.5	4
5	256QAM	1	24	17.99	17.94	17.84			
5	256QAM	12	0	17.82	17.84	17.88			
5	256QAM	12	7	17.76	17.79	17.85		19.5	4
5	256QAM	12	13	17.85	17.79	17.86			
5	256QAM	25	0	17.81	18.02	18.02			
Channel									
Frequency (MHz)									
3	QPSK	1	0	21.57	21.74	21.63		23.5	0
3	QPSK	1	8	21.68	21.48	21.42			
3	QPSK	1	14	21.44	21.50	21.46			
3	QPSK	8	0	21.52	21.61	21.51			
3	QPSK	8	4	21.23	21.43	21.27		23.5	0
3	QPSK	8	7	21.38	21.43	21.41			
3	QPSK	8	7	21.54	21.46	21.58			
3	16QAM	1	0	21.29	21.49	21.39			
3	16QAM	1	8	21.25	21.38	21.37		23.5	0
3	16QAM	8	0	21.46	21.38	21.34			
3	16QAM	8	0	21.08	21.14	21.11			
3	16QAM	8	4	20.72	21.00	20.77		22.5	1
3	16QAM	8	7	20.84	20.99	20.85			
3	16QAM	16	0	20.90	20.97	20.91			
3	64QAM	1	0	21.08	21.08	20.99		22.5	1
3	64QAM	1	8	20.99	21.08	20.98			
3	64QAM	1	14	21.06	21.38	21.34			
3	64QAM	8	0	21.08	21.14	21.11			
3	64QAM	8	4	20.72	21.00	20.77		22.5	1
3	64QAM	8	7	20.84	20.99	20.85			
3	64QAM	16	0	20.90	20.97	20.91			
3	256QAM	1	0	18.03	18.12	18.02			
3	256QAM	1	8	18.01	17.93	17.73		19.5	4
3	256QAM	8	0	17.86	17.81	17.81			
3	256QAM	8	4	17.76	17.83	17.76		19.5	4
3	256QAM	8	7	17.79	17.77	17.73			
3	256QAM	16	0	17.82	17.86	17.88			
3	256QAM	16	0	17.85	18.10	18.10		19.5	4
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	21.43	21.75	21.59		23.5	0
1.4	QPSK	1	3	21.49	21.47	21.42			
1.4	QPSK	1	5	21.54	21.69	21.46			
1.4	QPSK	3	1	21.41	21.64	21.61			
1.4	QPSK	3	1	21.25	21.54	21.46			
1.4	QPSK	3	3	21.62	20.97	21.54		23.5	0
1.4	QPSK	3	5	21.52	21.61	21.58			
1.4	16QAM	1	0	21.09	21.52	21.54			
1.4	16QAM	1	3	21.27	21.41	21.25			
1.4	16QAM	1	5	21.38	21.22	21.26		23.5	0
1.4	16QAM	3	1	21.23	21.58	21.46			
1.4	16QAM	3	3	21.11	21.36	21.25			
1.4	16QAM	3	5	21.36	21.44	21.28		22.5	1
1.4	16QAM	3	3	21.22	21.21	21.31			
1.4	16QAM	3	5	21.25	21.31	21.42			
1.4	64QAM	1	0	21.10	21.30	21.42			
1.4	64QAM	1	3	21.27	21.62	21.43		22.5	1
1.4	64QAM	1	5	21.14	21.34	21.40			
1.4	64QAM	3	1	20.90	20.90	20.85		21.5	2
1.4	256QAM	1	0	17.86	18.10	18.02			
1.4	256QAM	1	3	17.86	17.86	17.86		19.5	4
1.4	256QAM	3	1	17.84	17.87	17.88			
1.4	256QAM	3	3	17.82	17.86				

Band 30 Ant2												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPE (dB)				
Channel												
2310												
10	QPSK	1	0	21.44			23	0				
10	QPSK	1	25	21.50								
10	QPSK	1	49	21.95								
10	QPSK	25	0	21.50			23	0				
10	QPSK	25	12	21.23								
10	QPSK	25	25	21.13								
10	QPSK	50	0	21.31			23	0				
10	16QAM	1	0	21.28								
10	16QAM	1	25	21.08								
10	16QAM	1	49	21.21			22	1				
10	16QAM	25	0	20.26								
10	16QAM	25	12	20.22								
10	16QAM	25	25	20.03			21	2				
10	16QAM	50	0	20.10								
10	16QAM	1	0	20.30								
10	84QAM	1	25	20.26			22	1				
10	84QAM	1	49	20.13								
10	84QAM	25	0	19.25								
10	84QAM	25	12	19.16			21	2				
10	84QAM	25	25	19.16								
10	84QAM	50	0	19.25								
10	256QAM	1	25	17.28			19	4				
10	256QAM	1	49	17.02								
10	256QAM	25	0	17.20								
10	256QAM	25	12	17.18			19	4				
10	256QAM	25	25	17.28								
10	256QAM	50	0	17.23								
Channel												
27735												
5	QPSK	1	0	21.21	21.21	21.25	24	0				
5	QPSK	1	12	21.16	21.22	21.28						
5	QPSK	1	24	21.24	21.18	21.21						
5	QPSK	12	0	21.16	21.15	21.23	23	0				
5	QPSK	12	7	21.09	21.13	21.11						
5	QPSK	12	13	21.02	21.04	21.08						
5	QPSK	20	0	21.26	21.25	21.14	23	0				
5	16QAM	1	0	21.12	21.21	21.04						
5	16QAM	1	12	21.08	21.01	21.02						
5	16QAM	1	24	21.06	21.09	21.05	23	0				
5	16QAM	12	0	20.18	20.18	20.22						
5	16QAM	12	7	20.00	20.17	20.01						
5	16QAM	12	13	19.87	19.98	19.93	22	1				
5	16QAM	25	0	20.09	20.09	20.06						
5	84QAM	1	0	20.22	20.12	20.26						
5	84QAM	1	12	20.03	20.01	20.08	22	1				
5	84QAM	1	24	20.08	20.00	20.05						
5	84QAM	12	0	19.02	19.11	19.14						
5	84QAM	12	7	19.07	19.08	19.03	21	2				
5	84QAM	12	13	19.08	19.05	19.04						
5	84QAM	25	0	19.14	19.18	19.02						
5	256QAM	1	0	17.24	17.01	17.08	19	4				
5	256QAM	1	12	17.11	17.05	17.04						
5	256QAM	1	24	17.05	17.06	17.09						
5	256QAM	12	0	17.15	17.14	17.16	19	4				
5	256QAM	12	7	17.14	17.07	17.01						
5	256QAM	12	13	17.15	17.03	17.13						
5	256QAM	25	0	17.08	17.10	17.07						

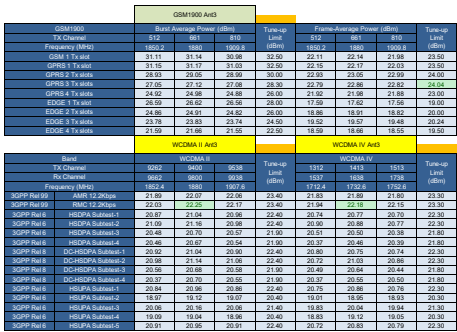
Band 66 Ant2												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPE (dB)				
Channel												
13027.5 - 13025.5 - 13027.5												
1740 1765 1790												
20	QPSK	1	0	21.69	21.53	21.76	23	0				
20	QPSK	1	49	21.76	21.86	21.71						
20	QPSK	1	99	21.79	21.88	21.68						
20	QPSK	50	0	21.60	21.60	21.70	23	0				
20	QPSK	50	24	21.69	21.78	21.62						
20	QPSK	50	50	21.75	21.76	21.69						
20	QPSK	100	0	21.72	21.79	21.64	23	0				
20	16QAM	1	0	21.72	21.74	21.63						
20	16QAM	1	49	21.53	21.70	21.51						
20	16QAM	1	99	21.54	21.84	21.46	22	1				
20	16QAM	50	0	20.97	20.99	20.77						
20	16QAM	50	24	20.81	20.92	20.77						
20	16QAM	50	50	20.90	20.81	20.81	22	1				
20	16QAM	100	0	20.96	20.97	20.96						
20	84QAM	1	0	20.89	21.03	20.94						
20	84QAM	1	49	20.82	20.89	20.72	21	2				
20	84QAM	1	99	20.81	20.80	20.86						
20	84QAM	50	0	19.94	19.94	19.74						
20	84QAM	50	24	19.76	19.84	19.70	21	2				
20	84QAM	50	50	19.80	19.87	19.81						
20	84QAM	100	0	19.78	20.05	19.73						
20	256QAM	1	0	18.04	18.10	17.87	19	4				
20	256QAM	1	49	17.92	17.96	17.74						
20	256QAM	1	99	17.83	18.08	17.73						
20	256QAM	50	0	17.88	17.94	17.81	19	4				
20	256QAM	50	24	17.87	17.89	17.75						
20	256QAM	50	50	17.86	17.83	17.68						
20	256QAM	100	0	17.81	17.80	17.68						
Channel												
13044.7 - 13022.2 - 13026.7												
1717.5 1745 1772.5												
15	QPSK	1	0	21.73	21.86	21.60	23	0				
15	QPSK	1	37	21.68	21.84	21.91						
15	QPSK	1	74	21.71	21.64	21.40						
15	QPSK	36	0	21.55	21.75	21.61	23	0				
15	QPSK	36	20	21.65	21.61	21.49						
15	QPSK	36	39	21.60	21.52	21.41						
15	QPSK	75	0	21.47	21.61	21.94	23	0				
15	16QAM	1	0	21.62	21.60	21.65						
15	16QAM	1	37	21.47	21.53	21.39						
15	16QAM	1	74	21.39	21.38	21.49	22	1				
15	16QAM	36	0	20.76	20.92	20.53						
15	16QAM	36	20	20.68	20.77	20.61						
15	16QAM	36	39	20.69	20.55	20.62	21	2				
15	16QAM	75	0	20.77	20.79	20.83						
15	84QAM	1	0	20.70	20.81	20.77						
15	84QAM	1	37	20.76	20.85	20.47	22	1				
15	84QAM	1	74	20.57	20.57	20.51						
15	84QAM	36	0	19.89	19.84	19.50						
15	84QAM	36	20	19.85	19.60	19.47	21	2				
15	84QAM	36	39	19.85	19.70	19.40						
15	84QAM	75	0	19.88	19.85	19.50						
15	256QAM	1	0	17.82	17.94	17.61	19	4				
15	256QAM	1	37	17.87	17.84	17.61						
15	256QAM	1	74	17.60	17.88	17.69						
15	256QAM	36	0	17.71	17.83	17.70	19	4				
15	256QAM	36	20	17.75	17.70	17.59						
15	256QAM	36	39	17.67	17.77	17.65						
15	256QAM	75	0	17.56	17.70	17.58						
Channel												
13052.2 - 13030.2 - 13040.7												
1715 1745 1775												
10	QPSK	1	0	21.68	21.69	21.70	23	0				
10	QPSK	1	25	21.71	21.72	21.44						
10	QPSK	1	49	21.70	21.68	21.50						
10	QPSK	25	0	21.64	21.78	21.62	23	0				
10	QPSK	25	20	21.65	21.61	21.49						
10	QPSK	25	25	21.61	21.63	21.33						
10	QPSK	75	0	21.42	21.63	21.91	23	0				
10	16QAM	1	0	21.67	21.63	21.65						
10	16QAM	1	25	21.33	21.41	21.45						
10	16QAM	1	49	21.30	21.50	21.41	22	1				
10	16QAM	25	0	20.77	20.93	20.51						
10	16QAM	25	20	20.69	20.60	20.52						
10	16QAM	25	25	20.70	20.60	20.63	22	1				
10	16QAM	50	0	20.70	20.79	20.86						
10	16QAM	50	20	20.78	20.78	20.78						
10	16QAM	1	0	20.70	20.79	20.79	21	2				
10	16QAM	1	49	20.66	20.67	20.58						
10	16QAM	1	99	20.63	20.68	20.56						
10	16QAM	25	0	19.82	19.76	19.55	21	2				
10	16QAM	25	12	19.69	19.76	19.56						
10	16QAM	25	25	19.70	19.62	19.59						
10	256QAM	1	0	17.77	17.84	17.61	19	4				
10	256QAM	1	25	17.66	17.88	17.62						
10	256QAM	1	49	17.63	17.86	17.61						
10	256QAM	25	0	17.75	17.86	17.62	19	4				
10	256QAM	25	12	17.60	17.82	17.71						
10	256QAM	25	25	17.77	17.74	17.47						
10	256QAM	50	0	17.61	17.65	17.64						
Channel												
13059.7 - 13032.2 - 13036.7												
1710.5 1740 1770.5												
5	QPSK	1	0	21.70	21.69	21.69	23	0				
5	QPSK	1	12	21.63	21.73	21.53						
5	QPSK	1	24	21.67	21.63	21.40						
5	QPSK	12	0	21.58	21.69	21.65	23	0				
5	QPSK	12	7	21.47	21.54	21.40						
5	QPSK	12	14	21.59	21.70	21.21						
5	QPSK	20	0	21.68	21.62	21.65	23	0				
5	QPSK	20	6	21.57	21.64	21.38						
5	QPSK	20	12	21.27	21.49	21.20						
5	16QAM	1	0	21.30	21.39	21.36	22	1				
5	16QAM	12	0	20.76	20.79	20.68						
5	16QAM	12	7	20.68	20.76	20.45						
5	16QAM	20	0	20.65	20.68	20.61	22	1				
5	16QAM	20	6	20.76	20.68	20.66						
5	16QAM	20	12	20.66	20.61	20.37						
5	16QAM	12	0	19.84	19.73	19.62	21	2				
5	16QAM	12	7	19.69	19.71	19.63						
5	16QAM	12	14	19.62	19.62	19.58						
5	256QAM	1	0	19.63	19.93	19.53	21	2				
5	256QAM	1	6	19.79	19.60	19.73						
5	256QAM	1	12	19.60	19.72	19.44						
5	256QAM	12	0	17.67	17.83	17.61	19	4				
5	256QAM	12	7	17.67	17.73	17.68						
5	256QAM	12	14	17.84	17.74	17.47						
5	256QAM	20	0	17.68	17.77	17.62	19	4				
5	256QAM	20	6	17.76	17.83	17.66						
5	256QAM	20	12	17.65	17.77	17.55						
Channel												
13071.5 - 13022.2 - 13026.7												
1711.5 1745 1778.5												
3	QPSK	1	0	21.63	21.78	21.67				23	0	
3	QPSK	1	12	21.62	21.75	21.49						
3	QPSK	1	24	21.63	21.66	21.45						
3	QPSK	8	0	21.71	21.74	21.47	23	0				
3	QPSK	8	4	21.46	21.65	21.20						
3	QPSK	8	8	21.56	21.64	21.40						
3	QPSK	16	0	21.65	21.75	21.60	23	0				
3	QPSK	16	4	21.63	21.66	21.40						
3	QPSK	16	8	21.40	21.58	21.27						
3	16QAM	1	0	21.28	21.58	21.24	23	0				
3	16QAM	1	8	20.77	21.24	21.04						
3	16QAM	1	16	20.78	21.01	20.98						
3	16QAM	8	0	20.96	20.94	20.84	22	1				
3	16QAM	8	4	20.54	20.84	20.52						
3	16QAM	8	8	20.65	20.68	20.46						
3	16QAM	16	0	20.76	20.80	20.70	21	2				
3	16QAM	16	4	20.87	20.87	20.67						
3	16QAM	16	8	20.67	20.84	20.52						
3	256QAM	1	0	17.79	17.93	17.65	19	4				
3	256QAM	1	14	17.66	17.84	17.60						
3	256QAM	1	28	17.75	17.80	17.55						
3	256QAM	8	0	17.73	17.77	17.67	19	4				
3	256QAM	8	4	17.68	17.70	17.53						
3	256QAM	8	8	17.68	17.76	17.58						
Channel												
13079.5 - 13022.2 - 13026.7												
1710.5 1745 1778.5												
14	QPSK	1	0	21.76	21.76	21.76				23	0	
14	QPSK	1	3	21.70	21.65	21.50						
14	QPSK	1	6	21.70	21.65	21.45						
14	QPSK	1	9	21.70	21.65	21.45	23	0				
14	QPSK	1	12	21.62	21.56	21.37						
14	QPSK	3	0	21.61	21.60	21.32						
14	16QAM	1	0	21.49	21.67	21.45	23	0				
14	16QAM	1	3	21.33	21.48	21.36						
14	16QAM	1	6	21.38	21.38	21.31						
14	16QAM	3	0	21.50	21.61	21.49	23	0				
14	16QAM	3	1	21.69	21.68	21.58						
14	16QAM	3	2	21.68	21.68	21.53						
14	16QAM	6	0	20.88	20.90	20.81	22	1				
14	16QAM	6	1	20.94	20.94	20.87						
14	16QAM	6	2	20.69	20.69	20.64						
14	16QAM	6	5	20.55	20.63	20.58	22	1				
14	16QAM	6	8	20.62	20.65	20.56						
14	16QAM	6	9	20.62	20.65	20.56						
14	16QAM	6	12	20.84	20.69	20.62	21	2				
14	16QAM	6	15	19.71	19.94	19.41						
14	16QAM	6	18	19.81	19.81	17.61						
14	256QAM	1	0	17.69	17.89	17.65	19	4				
14	256QAM	1	3	17.63	17.89	17.66						
14	256QAM	1	6	17.63	17.86	17.66						
14	256QAM	3	0	17.84	17.82	17.68	19	4				
14	256QAM	3	1	17.87	17.87	17.68						
14	256QAM	3	2	17.63	17.79	17.52						



Band 38 Ant2													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)	MPE (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	21.25	21.31	21.23	23	0					
20	QPSK	1	49	21.27	21.28	21.18							
20	QPSK	1	99	21.23	21.28	21.26							
20	QPSK	50	0	20.33	20.50	20.40							
20	QPSK	50	24	20.29	20.34	20.34	22	1					
20	QPSK	50	50	20.27	20.32	20.38							
20	QPSK	100	0	20.40	20.45	20.29							
20	HQAM	1	0	20.29	20.31	20.26							
20	HQAM	1	49	20.21	20.32	20.18	22	1					
20	HQAM	1	99	20.23	20.22	20.27							
20	HQAM	50	0	19.24	19.30	19.24							
20	HQAM	50	24	19.15	19.24	19.27							
20	HQAM	50	50	19.12	19.27	19.23	21	2					
20	HQAM	100	0	19.27	19.36	19.30							
20	HQAM	100	1	19.13	19.40	19.26							
20	HQAM	1	49	19.30	19.38	19.32							
20	HQAM	1	99	19.23	19.39	19.31	21	2					
20	HQAM	50	0	18.16	18.39	18.25							
20	HQAM	50	24	18.20	18.32	18.23							
20	HQAM	50	50	18.24	18.31	18.23							
20	HQAM	100	0	18.29	18.38	18.32	20	3					
20	HQAM	100	1	18.23	18.33	18.31							
20	HQAM	1	99	18.23	18.33	18.17							
20	HQAM	1	99	18.27	18.31	18.29							
20	HQAM	50	24	18.23	18.34	18.26	18	5					
20	HQAM	50	50	18.18	18.31	18.28							
20	HQAM	100	0	18.27	18.40	18.13							
20	HQAM	100	1	18.23	18.33	18.18							
Channel													
Frequency (MHz)													
15	QPSK	1	0	21.25	21.31	21.18	23	0					
15	QPSK	1	37	21.18	21.21	21.07							
15	QPSK	1	74	21.20	21.20	21.20							
15	QPSK	36	0	20.34	20.40	20.35							
15	QPSK	36	20	20.21	20.25	20.24	22	1					
15	QPSK	36	56	20.23	20.34	20.32							
15	QPSK	75	0	20.28	20.41	20.19							
15	HQAM	1	0	20.23	20.26	20.21							
15	HQAM	1	37	20.20	20.23	20.16	22	1					
15	HQAM	1	74	20.12	20.16	20.20							
15	HQAM	36	0	19.18	19.21	19.28							
15	HQAM	36	20	19.17	19.23	19.23							
15	HQAM	36	39	19.08	19.22	19.15	21	2					
15	HQAM	75	0	19.15	19.29	19.18							
15	HQAM	75	0	19.20	19.34	19.23							
15	HQAM	1	37	19.18	19.31	19.27							
15	HQAM	1	74	19.16	19.36	19.22	20	3					
15	HQAM	36	0	18.25	18.31	18.18							
15	HQAM	36	20	18.24	18.31	18.21							
15	HQAM	36	39	18.24	18.32	18.21							
15	HQAM	75	0	18.15	18.32	18.21	18	5					
15	HQAM	75	0	18.15	18.27	18.16							
15	HQAM	1	74	18.23	18.33	18.18							
15	HQAM	36	0	18.14	18.26	18.30							
15	HQAM	36	20	18.23	18.27	18.15	18	5					
15	HQAM	36	39	18.14	18.26	18.21							
15	HQAM	75	0	18.10	18.36	18.24							
Channel													
Frequency (MHz)													
10	QPSK	1	0	21.25	21.30	21.15	23	0					
10	QPSK	1	25	21.23	21.26	21.13							
10	QPSK	1	49	21.13	21.19	21.10							
10	QPSK	25	0	20.34	20.44	20.36							
10	QPSK	25	13	20.17	20.30	20.22	22	1					
10	QPSK	25	25	20.19	20.31	20.22							
10	QPSK	50	0	20.35	20.52	20.24							
10	HQAM	1	0	20.20	20.23	20.14							
10	HQAM	1	25	20.12	20.28	20.10	22	1					
10	HQAM	1	49	20.11	20.17	20.19							
10	HQAM	25	0	19.18	19.27	19.26							
10	HQAM	25	12	19.15	19.24	19.15							
10	HQAM	25	25	19.05	19.16	19.18	21	2					
10	HQAM	50	0	19.15	19.32	19.23							
10	HQAM	50	0	19.20	19.35	19.28							
10	HQAM	1	25	19.20	19.25	19.28							
10	HQAM	1	49	19.25	19.32	19.21	21	2					
10	HQAM	25	0	18.18	18.20	18.18							
10	HQAM	25	12	18.16	18.20	18.16							
10	HQAM	50	0	18.25	18.33	18.23							
10	HQAM	50	0	18.13	18.27	18.24	20	3					
10	HQAM	1	25	18.26	18.16	18.10							
10	HQAM	1	49	18.15	18.28	18.18							
10	HQAM	12	0	18.15	18.24	18.21							
10	HQAM	12	0	18.10	18.26	18.20	18	5					
10	HQAM	25	25	18.07	18.25	18.21							
10	HQAM	50	0	18.19	18.38	18.22							
Channel													
Frequency (MHz)													
5	QPSK	1	0	21.25	21.26	21.19			23	0			
5	QPSK	1	12	21.22	21.26	21.11							
5	QPSK	1	24	21.16	21.20	21.21							
5	QPSK	12	0	20.26	20.44	20.36							
5	QPSK	12	0	20.24	20.30	20.25	22	1					
5	QPSK	12	13	20.17	20.34	20.19							
5	QPSK	25	25	20.20	20.37	20.23							
5	QPSK	25	25	20.26	20.22	20.14							
5	HQAM	1	12	20.12	20.28	20.14	22	1					
5	HQAM	1	24	20.13	20.14	20.14							
5	HQAM	12	0	19.14	19.20	19.22							
5	HQAM	12	7	19.07	19.30	19.15							
5	HQAM	12	13	19.01	19.24	19.20	21	2					
5	HQAM	25	0	19.23	19.26	19.20							
5	HQAM	25	0	19.26	19.30	19.21							
5	HQAM	1	12	19.17	19.28	19.19	21	2					
5	HQAM	1	24	19.14	19.14	19.14							
5	HQAM	12	0	18.18	18.18	18.14							
5	HQAM	12	13	18.16	18.18	18.14							
5	HQAM	25	0	18.20	18.25	18.20	18	5					
5	HQAM	25	0	18.18	18.22	18.21							
5	HQAM	1	12	18.23	18.20	18.07							
5	HQAM	1	24	18.16	18.19	18.17							
5	HQAM	12	0	18.28	18.29	18.23							
5	HQAM	12	7	18.15	18.28	18.20							
5	HQAM	12	13	18.15	18.23	18.20							
5	HQAM	25	25	18.07	18.25	18.20	18	5					
5	HQAM	25	25	18.07	18.25	18.20							
5	HQAM	25	25	18.07	18.25	18.20							
5	HQAM	25	25	18.07	18.25	18.20							



Band 48_FCC Ant2														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power High Mod Ch / Freqs	Power High Mod Ch / Freqs	Power High Ch / Freqs	Turn-up time (dBm)	MPP (dB)					
Channel				56540	56550	56150	56650							
Frequency (MHz)				56540	56550	56150	56650							
20	QPSK	1	0	19.22	19.40	19.24	19.12	21	0					
20	QPSK	1	49	19.20	19.38	19.20	19.07							
20	QPSK	1	89	19.18	19.36	19.16	19.04							
20	QPSK	50	0	19.23	19.26	19.20	19.01							
20	QPSK	50	24	19.18	19.22	19.08	19.04	21	0					
20	QPSK	50	39	19.17	19.21	19.11	19.02							
20	QPSK	100	0	19.19	19.26	19.12	19.01							
20	16QAM	1	0	19.28	19.30	19.33	19.22	21	0					
20	16QAM	1	49	19.25	19.27	19.23	19.20							
20	16QAM	1	99	19.20	19.20	19.26	19.26							
20	16QAM	50	0	19.23	19.31	19.20	19.23							
20	16QAM	50	24	19.18	19.22	19.13	19.11	21	0					
20	16QAM	50	39	19.16	19.21	19.14	19.13							
20	64QAM	100	0	19.16	19.27	19.16	19.10							
20	64QAM	1	0	19.22	19.22	19.16	19.10	21	0					
20	64QAM	1	49	19.13	19.13	19.08	19.12							
20	64QAM	1	99	19.05	19.14	19.11	19.05							
20	64QAM	50	0	19.22	19.34	19.27	19.18							
20	64QAM	50	24	19.26	19.36	19.17	19.12	20	1					
20	64QAM	50	39	19.25	19.25	19.16	19.15							
20	64QAM	100	0	19.26	19.24	19.07	19.19							
20	256QAM	1	0	19.27	19.35	19.20	19.12							
20	256QAM	1	49	19.27	19.33	19.12	19.12	18	3					
20	256QAM	1	99	19.30	19.31	19.17	19.09							
20	256QAM	50	0	19.24	19.43	19.18	19.09							
20	256QAM	50	24	19.20	19.35	19.23	19.12							
20	256QAM	50	39	19.28	19.32	19.14	19.05	18	3					
20	256QAM	100	0	19.14	19.22	19.05	19.12							
Channel				56115	56520	56160	56665							
Frequency (MHz)				56115	56520	56160	56665							
15	QPSK	1	0	19.14	19.33	19.19	19.25	21	0					
15	QPSK	1	37	19.18	19.28	19.13	19.05							
15	QPSK	1	74	19.07	19.20	19.11	19.02							
15	QPSK	86	0	19.19	19.26	19.13	19.03							
15	QPSK	86	20	19.08	19.14	19.02	19.01	21	0					
15	16QAM	1	0	19.10	19.13	19.04	19.08							
15	QPSK	75	0	19.12	19.22	19.08	19.06							
15	16QAM	1	0	19.19	19.20	19.31	19.15	21	0					
15	16QAM	1	37	19.26	19.24	19.14	19.13							
15	16QAM	1	74	19.20	19.21	19.25	19.23							
15	16QAM	38	0	19.21	19.27	19.14	19.21							
15	16QAM	86	20	19.14	19.12	19.04	19.05	21	0					
15	16QAM	86	39	19.06	19.17	19.11	19.05							
15	16QAM	75	0	19.08	19.18	19.08	19.01							
15	64QAM	1	0	19.11	19.14	19.12	19.21							
15	64QAM	1	37	19.06	19.11	19.06	19.07	21	0					
15	64QAM	1	74	19.03	19.09	19.07	19.02							
15	64QAM	38	0	19.11	19.31	19.21	19.13							
15	64QAM	38	20	19.24	19.34	19.14	19.06							
15	64QAM	75	0	19.22	19.27	19.06	19.07	20	1					
15	64QAM	75	0	19.20	19.15	19.02	19.05							
15	256QAM	1	0	19.26	19.29	19.17	19.05							
15	256QAM	1	37	19.21	19.28	19.01	19.05							
15	256QAM	1	74	19.21	19.22	19.13	19.04	18	3					
15	256QAM	38	0	19.16	19.41	19.17	19.08							
15	256QAM	38	20	19.16	19.33	19.14	19.03							
15	256QAM	38	39	19.25	19.30	19.04	19.09							
Channel				56164	56160	56164	56162							
Frequency (MHz)				56164	56160	56164	56162							
10	QPSK	1	0	19.12	19.32	19.15	19.08	21	0					
10	QPSK	1	25	19.16	19.27	19.15	19.05							
10	QPSK	1	49	19.14	19.18	19.11	19.06							
10	QPSK	25	0	19.19	19.21	19.13	19.08							
10	QPSK	25	12	19.14	19.14	19.02	19.00	21	0					
10	QPSK	25	25	19.09	19.14	19.04	19.05							
10	16QAM	1	0	19.14	19.18	19.07	19.00							
10	16QAM	1	0	19.26	19.28	19.31	19.11	21	0					
10	16QAM	1	25	19.23	19.24	19.21	19.14							
10	16QAM	1	49	19.26	19.24	19.20	19.20							
10	16QAM	25	0	19.13	19.22	19.16	19.17							
10	16QAM	25	12	19.12	19.19	19.10	19.08	21	0					
10	16QAM	25	25	19.04	19.16	19.05	19.05							
10	16QAM	50	0	19.11	19.26	19.18	19.04							
10	64QAM	1	0	19.14	19.20	19.09	19.23	21	0					
10	64QAM	1	25	19.11	19.12	19.08	19.04							
10	64QAM	1	49	19.08	19.03	19.05	19.06							
10	64QAM	25	0	19.12	19.25	19.20	19.13							
10	64QAM	25	12	19.16	19.27	19.12	19.06	20	1					
10	64QAM	25	25	19.18	19.14	19.05	19.05							
10	64QAM	50	0	19.25	19.22	19.00	19.06							
10	256QAM	1	0	19.24	19.31	19.17	19.02							
10	256QAM	1	25	19.16	19.23	19.04	19.05	18	3					
10	256QAM	1	49	19.22	19.30	19.13	19.07							
10	256QAM	25	0	19.20	19.37	19.12	19.02							
10	256QAM	25	12	19.17	19.19	19.14	19.08							
10	256QAM	25	25	19.17	19.25	19.12	19.05	18	3					
10	256QAM	50	0	19.03	19.18	19.05	19.03							
Channel				56515	56510	56410	56515							
Frequency (MHz)				56515	56510	56410	56515							
5	QPSK	1	0	19.12	19.36	19.17	19.03	21	0					
5	QPSK	1	12	19.16	19.30	19.15	19.03							
5	QPSK	1	24	19.11	19.23	19.09	19.03							
5	QPSK	12	0	19.17	19.21	19.19	19.03							
5	QPSK	12	7	19.09	19.14	19.05	19.01	21	0					
5	QPSK	12	19	19.13	19.17	19.01	19.06							
5	QPSK	25	0	19.16	19.16	19.03	19.08							
5	QPSK	1	0	19.27	19.24	19.24	19.17							
5	16QAM	1	12	19.18	19.19	19.15	19.14	21	0					
5	16QAM	1	24	19.21	19.26	19.20	19.23							
5	16QAM	12	0	19.14	19.21	19.11	19.19							
5	16QAM	12	7	19.16	19.15	19.09	19.06							
5	16QAM	12	13	19.04	19.11	19.12	19.03	21	0					
5	16QAM	1	0	19.11	19.23	19.13	19.24							
5	16QAM	1	12	19.04	19.04	19.00	19.06							
5	16QAM	1	24	19.08	19.08	19.05	19.06							
5	64QAM	12	0	19.19	19.24	19.25	19.15	20	1					
5	64QAM	1	12	19.24	19.30	19.14	19.25							
5	64QAM	12	13	19.19	19.23	19.21	19.14							
5	64QAM	25	0	19.23	19.19	19.05	19.07							
5	256QAM	1	0	19.23	19.30	19.16	19.05	18	3					
5	256QAM	1	12	19.17	19.29	19.09	19.06							
5	256QAM	1	24	19.24	19.21	19.12	19.02							
5	256QAM	12	0	19.21	19.32	19.12	19.02							
5	256QAM	12	7	19.16	19.32	19.13	19.05	18	3					
5	256QAM	12	13	19.16	19.29	19.10	19.04							
Channel				56615	56610	56510	56615							
Frequency (MHz)				56615	56610	56510	56615							



Band 2 Ant3												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 18000	Power Mid Ch./Freq. 18600	Power High Ch./Freq. 19100	Turnup time (sec)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.22	20.30	20.34	21.6	0				
20	QPSK	1	49	20.25	20.43	20.58						
20	QPSK	1	99	20.34	20.25	20.21						
20	QPSK	50	0	20.34	20.30	20.25						
20	QPSK	50	24	20.16	20.32	20.47	21.6	0				
20	QPSK	50	50	20.10	20.25	20.11						
20	QPSK	100	0	20.23	20.33	20.14						
20	16QAM	100	0	20.27	20.30	20.14						
20	16QAM	1	49	20.07	20.25	20.06	21.6	0				
20	16QAM	1	99	20.27	20.15	19.95						
20	16QAM	50	0	20.41	20.40	20.29						
20	16QAM	50	24	20.47	20.27	20.27						
20	16QAM	50	50	20.14	20.40	20.02	21.6	0				
20	16QAM	100	0	20.33	20.17	20.20						
20	64QAM	1	0	20.25	20.38	20.18						
20	64QAM	1	49	20.32	20.40	20.04	21.6	0				
20	64QAM	1	99	20.06	20.21	20.10						
20	64QAM	50	0	19.91	20.09	20.03						
20	64QAM	50	24	19.97	20.08	19.90	21.6	0				
20	64QAM	100	0	19.77	20.00	19.79						
20	256QAM	1	49	19.97	19.95	19.97						
20	256QAM	1	99	19.12	19.09	18.97	20.5	1.1				
20	256QAM	50	0	19.13	19.21	19.07						
20	256QAM	50	24	19.03	19.11	18.99						
20	256QAM	50	50	18.97	18.92	18.85						
Channel												
Frequency (MHz)												
18	QPSK	1	0	20.33	20.45	20.33	21.6	0				
18	QPSK	1	37	20.17	20.45	20.07						
18	QPSK	1	74	20.30	20.29	20.18						
18	QPSK	36	0	20.34	20.32	20.16						
18	QPSK	36	37	20.13	20.20	20.11	21.6	0				
18	QPSK	36	74	20.19	20.29	20.12						
18	QPSK	75	0	20.21	20.24	20.15						
18	16QAM	1	0	20.34	20.41	20.17						
18	16QAM	1	37	19.98	20.18	20.04	21.6	0				
18	16QAM	1	74	20.08	20.29	19.93						
18	16QAM	36	0	20.43	20.35	20.34						
18	16QAM	36	37	20.17	20.40	20.32						
18	16QAM	36	74	20.14	20.21	20.15	21.6	0				
18	16QAM	75	0	20.31	20.23	20.21						
18	64QAM	1	0	20.25	20.36	20.27						
18	64QAM	1	37	20.34	20.09	20.04	21.6	0				
18	64QAM	1	74	20.14	20.21	20.15						
18	64QAM	36	0	19.94	20.04	20.02						
18	64QAM	36	37	20.06	20.08	19.97	21.6	0				
18	64QAM	36	74	20.02	20.10	19.95						
18	64QAM	75	0	20.04	20.09	19.99						
18	256QAM	1	0	19.93	19.97	19.93	20.5	1.1				
18	256QAM	1	37	19.78	19.81	19.82						
18	256QAM	1	74	18.96	19.02	18.97						
18	256QAM	36	0	18.96	18.96	18.96						
18	256QAM	36	37	18.98	18.93	18.84	20.5	1.1				
18	256QAM	36	74	18.74	18.86	18.77						
18	256QAM	75	0	18.87	18.87	18.87						
Channel												
Frequency (MHz)												
18	QPSK	1	0	20.27	20.30	20.25	21.6	0				
18	QPSK	1	25	20.15	20.37	20.10						
18	QPSK	1	49	20.30	20.30	20.21						
18	QPSK	25	0	20.16	20.35	20.20						
18	QPSK	25	12	20.15	20.33	20.08	21.6	0				
18	QPSK	25	25	20.10	20.28	20.10						
18	QPSK	50	0	20.20	20.30	20.10						
18	16QAM	1	0	20.25	20.32	20.14						
18	16QAM	1	25	20.08	20.27	20.04	21.6	0				
18	16QAM	1	49	20.31	20.07	19.99						
18	16QAM	25	0	20.34	20.32	20.27						
18	16QAM	25	12	20.48	20.36	20.35	21.6	0				
18	16QAM	50	0	20.41	20.43	20.37						
18	16QAM	50	0	20.25	20.16	20.21						
18	64QAM	1	0	20.27	20.35	20.17	21.6	0				
18	64QAM	1	25	20.36	20.26	20.24						
18	64QAM	1	49	20.12	20.17	20.09						
18	64QAM	25	0	19.98	20.07	20.05						
18	64QAM	25	12	19.78	20.02	19.79	21.6	0				
18	64QAM	50	0	20.04	20.12	20.04						
18	256QAM	1	0	19.88	19.05	19.05						
18	256QAM	1	25	18.96	18.82	18.81	20.5	1.1				
18	256QAM	1	49	18.89	18.86	18.79						
18	256QAM	25	0	19.08	19.08	19.08						
18	256QAM	25	12	18.89	18.93	18.83						
18	256QAM	25	25	18.86	18.71	18.64	20.5	1.1				
18	256QAM	50	0	18.78	18.78	18.78						
18	256QAM	50	12	18.76	18.76	18.76						
18	256QAM	50	25	18.74	18.74	18.74						
18	256QAM	1	0	18.92	19.02	18.92	20.5	1.1				
18	256QAM	1	12	18.86	18.84	19.00						
18	256QAM	1	24	18.89	18.92	18.90						
18	256QAM	12	0	19.01	19.13	18.91						
18	256QAM	12	7	18.80	18.92	18.89	20.5	1.1				
18	256QAM	12	13	18.82	18.90	18.88						
18	256QAM	12	19	18.84	18.84	18.84						
18	256QAM	25	0	18.88	18.94	18.91						
Channel												
Frequency (MHz)												
3	QPSK	1	0	20.23	20.40	20.10	21.6	0				
3	QPSK	1	8	20.15	20.42	20.15						
3	QPSK	1	24	20.30	20.23	20.19						
3	QPSK	12	0	20.36	20.45	20.36						
3	QPSK	12	7	20.19	20.30	20.09	21.6	0				
3	QPSK	12	13	20.14	20.30	20.12						
3	QPSK	20	0	20.23	20.23	20.09						
3	16QAM	1	0	20.25	20.44	20.16						
3	16QAM	1	12	19.97	20.24	20.02	21.6	0				
3	16QAM	1	24	20.26	20.38	20.06						
3	16QAM	12	0	20.42	20.39	20.30						
3	16QAM	12	7	20.41	20.35	20.36						
3	16QAM	12	13	20.13	20.41	20.27	21.6	0				
3	16QAM	25	0	20.27	20.12	20.16						
3	64QAM	1	0	20.16	20.42	20.22	21.6	0				
3	64QAM	1	12	20.25	20.40	20.21						
3	64QAM	1	24	20.10	20.26	20.14						
3	64QAM	12	0	19.93	20.06	20.04	21.6	0				
3	64QAM	12	7	19.94	20.09	19.73						
3	64QAM	12	13	19.76	20.12	19.84						
3	64QAM	25	0	20.03	20.14	20.07						
3	256QAM	1	0	18.92	19.02	18.92	20.5	1.1				
3	256QAM	1	12	18.86	18.84	19.00						
3	256QAM	1	24	18.89	18.92	18.90						
3	256QAM	12	0	19.01	19.13	18.91						
3	256QAM	12	7	18.80	18.92	18.89	20.5	1.1				
3	256QAM	12	13	18.82	18.90	18.88						
3	256QAM	12	19	18.84	18.84	18.84						
3	256QAM	25	0	18.88	18.94	18.91						
Channel												
Frequency (MHz)												
3	QPSK	1	0	20.23	20.40	20.10	21.6	0				
3	QPSK	1	8	20.15	20.42	20.15						
3	QPSK	1	24	20.30	20.23	20.19						
3	QPSK	12	0	20.36	20.45	20.36						
3	QPSK	12	7	20.19	20.30	20.09	21.6	0				
3	QPSK	12	13	20.14	20.30	20.12						
3	QPSK	20	0	20.23	20.23	20.09						
3	16QAM	1	0	20.25	20.44	20.16						
3	16QAM	1	12	19.97	20.24	20.02	21.6	0				
3	16QAM	1	24	20.26	20.38	20.06						
3	16QAM	12	0	20.42	20.39	20.30						
3	16QAM	12	7	20.41	20.35	20.36						
3	16QAM	12	14	20.24	20.36	20.30	21.6	0				
3	16QAM	25	0	20.41	20.12	20.16						
3	16QAM	25	12	20.46	20.38	20.38	21.6	0				
3	16QAM	50	0	20.12	20.40	20.03						
3	16QAM	50	12	20.23	20.23	20.23						
3	16QAM	50	24	20.23	20.40	20.24	21.6	0				
3	16QAM	100	0	20.28	20.40	20.17						
3	64QAM	1	0	19.95	20.08	19.97						
3	64QAM	1	8	19.87	20.08	19.83	21.6	0				
3	64QAM	1	24	19.99	20.09	19.92						
3	64QAM	12	0	19.82	19.97	19.82						
3	64QAM	12	14	19.86	19.88	19.84	20.5	1.1				
3	64QAM	25	0	18.91	19.09	18.93						
3	64QAM	25	12	18.90	18.87	18.88						
3	64QAM	25	24	18.81	18.81	18.83						
3	256QAM	15	0	18.71	18.90	18.77	20.5	1.1				
3	256QAM	15	8	18.70	18.88	18.79						
3	256QAM	15	24	18.82	18.82	18.82						
3	256QAM	15	40	18.90	18.84	18.77						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	20.24	20.42	20.10	21.6	0				
1.4	QPSK	1	8	20.16	20.44	20.14						
1.4	QPSK	1	24	20.30	20.23	20.19						
1.4	QPSK	1	40	20.29	20.22	20.16						
1.4	QPSK	1	56	20.26	20.36	20.16	21.6	0				
1.4	QPSK	1	72	20.24	20.27	20.21						
1.4	QPSK	3	0	20.15	20.27	20.08						
1.4	QPSK	3	16	20.25	20.34	20.10						
1.4	QPSK	3	32	20.26	20.38	20.18	21.6	0				

Band 25 Ant3												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 16440	Power Middle Ch./Freq. 16440	Power High Ch./Freq. 16440	Turnup time (s)	MPE (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.38	20.40	20.45			21.6	0		
20	QPSK	1	49	20.38	20.42	20.23						
20	QPSK	1	99	20.42	20.38	20.27			21.6	0		
20	QPSK	50	0	20.41	20.45	20.29						
20	QPSK	50	24	20.29	20.39	20.25			21.6	0		
20	QPSK	50	50	20.25	20.38	20.24						
20	QPSK	100	0	20.31	20.38	20.23			21.6	0		
20	16QAM	1	0	20.39	20.39	20.24						
20	16QAM	1	49	20.13	20.31	20.11			21.6	0		
20	16QAM	1	99	20.33	20.20	20.03						
20	16QAM	50	0	20.48	20.47	20.36			21.6	0		
20	16QAM	50	24	20.53	20.42	20.43						
20	16QAM	50	50	20.26	20.51	20.16			21.6	0		
20	16QAM	100	0	20.38	20.27	20.30						
20	64QAM	1	0	20.31	20.51	20.32			21.6	0		
20	64QAM	1	49	20.38	20.45	20.12						
20	64QAM	1	99	20.19	20.35	20.14			21.6	0		
20	64QAM	50	0	20.07	20.19	20.11						
20	64QAM	50	24	19.94	20.17	19.99			21.6	0		
20	64QAM	50	50	19.88	20.16	19.90						
20	256QAM	1	0	19.11	19.26	19.88			20.5	1.1		
20	256QAM	1	49	18.92	19.27	19.81						
20	256QAM	1	99	18.97	19.26	19.93			20.5	1.1		
20	256QAM	50	0	19.05	19.22	19.93						
20	256QAM	50	24	19.13	19.28	19.03						
20	256QAM	50	50	18.94	19.12	19.03						
20	256QAM	100	0	19.01	19.17	18.92						
Channel												
Frequency (MHz)												
15	QPSK	1	0	18.67	18.88	19.07			21.6	0		
15	QPSK	1	37	20.27	20.40	20.33						
15	QPSK	1	74	20.18	20.48	20.09			21.6	0		
15	QPSK	36	0	20.38	20.34	20.20						
15	QPSK	36	36	20.19	20.29	20.12			21.6	0		
15	QPSK	36	36	20.15	20.30	20.14						
15	QPSK	75	0	20.26	20.22	20.17			21.6	0		
15	16QAM	1	0	20.35	20.38	20.18						
15	16QAM	1	37	20.09	20.15	19.96			21.6	0		
15	16QAM	1	74	20.24	20.24	19.93						
15	16QAM	36	0	20.42	20.38	20.24			21.6	0		
15	16QAM	36	20	20.38	20.48	20.36						
15	256QAM	36	20	20.38	20.48	20.36			21.6	0		
15	256QAM	36	20	20.18	20.43	20.01						
15	64QAM	1	0	20.23	20.45	20.18			21.6	0		
15	64QAM	1	49	20.20	20.17	20.10						
15	64QAM	1	74	20.08	20.17	20.10			21.6	0		
15	64QAM	36	0	20.01	20.12	19.96						
15	64QAM	36	20	19.80	20.07	19.82			20.5	1.1		
15	64QAM	36	36	19.72	20.05	19.75						
15	64QAM	75	0	20.08	20.13	20.02			20.5	1.1		
15	256QAM	1	0	18.87	18.92	18.72						
15	256QAM	1	37	18.77	18.74	18.88			20.5	1.1		
15	256QAM	36	0	18.88	18.95	18.96						
15	256QAM	36	20	18.77	18.89	18.58			20.5	1.1		
15	256QAM	36	36	18.75	18.91	18.99						
15	256QAM	75	0	18.80	18.87	18.80			20.5	1.1		
Channel												
Frequency (MHz)												
10	QPSK	1	0	18.65	18.86	19.18					21.6	0
10	QPSK	1	25	20.23	20.38	20.11						
10	QPSK	1	49	20.33	20.22	20.14			21.6	0		
10	QPSK	25	0	20.32	20.32	20.18						
10	QPSK	25	12	20.21	20.31	20.14			21.6	0		
10	QPSK	25	25	20.14	20.31	20.09						
10	QPSK	50	0	20.20	20.32	20.11			21.6	0		
10	16QAM	1	0	20.20	20.38	20.18						
10	16QAM	1	25	20.07	20.19	20.05			21.6	0		
10	16QAM	1	49	20.23	20.39	20.24						
10	16QAM	25	12	20.44	20.50	20.34			21.6	0		
10	16QAM	25	25	20.18	20.43	20.01						
10	16QAM	50	0	20.25	20.13	20.16			21.6	0		
10	64QAM	1	0	20.18	20.49	20.27						
10	64QAM	1	25	20.34	20.34	20.07			21.6	0		
10	64QAM	1	49	20.14	20.22	20.09						
10	64QAM	25	0	19.94	20.11	19.95			21.6	0		
10	64QAM	25	12	19.82	20.08	19.84						
10	64QAM	25	25	19.73	20.08	19.83			21.6	0		
10	64QAM	50	0	20.10	20.08	20.06						
10	256QAM	1	0	18.91	18.12	18.75			20.5	1.1		
10	256QAM	1	25	18.76	18.90	18.74						
10	256QAM	1	49	18.70	18.88	18.79			20.5	1.1		
10	256QAM	25	0	18.88	18.95	18.96						
10	256QAM	25	12	18.94	18.90	18.88			20.5	1.1		
10	256QAM	25	25	18.75	19.08	18.90						
10	256QAM	50	0	18.96	18.91	18.72			20.5	1.1		
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.22	20.48	20.11			21.6	0		
5	QPSK	1	12	20.21	20.38	20.15						
5	QPSK	1	24	20.27	20.31	20.29			21.6	0		
5	QPSK	12	0	20.33	20.32	20.16						
5	QPSK	12	7	20.24	20.29	20.05			21.6	0		
5	QPSK	12	13	20.14	20.29	20.14						
5	QPSK	25	0	20.18	20.25	20.17			21.6	0		
5	16QAM	1	0	20.25	20.38	20.11						
5	16QAM	1	12	20.00	20.17	19.99			21.6	0		
5	16QAM	1	24	20.20	20.14	19.87						
5	16QAM	12	0	20.33	20.33	20.27			21.6	0		
5	16QAM	12	7	20.49	20.54	20.29						
5	16QAM	12	13	20.13	20.41	20.08			21.6	0		
5	16QAM	25	0	20.22	20.15	20.19						
5	64QAM	1	0	20.18	20.44	20.26			21.6	0		
5	64QAM	1	12	20.34	20.39	19.99						
5	64QAM	1	24	20.07	20.23	20.17			21.6	0		
5	64QAM	12	0	19.92	20.04	19.96						
5	64QAM	12	13	19.79	20.11	19.80			21.6	0		
5	64QAM	12	13	19.77	20.04	19.84						
5	64QAM	25	0	20.08	20.06	20.09			21.6	0		
5	256QAM	1	0	19.02	18.17	18.89						
5	256QAM	1	12	18.79	18.76	18.78			20.5	1.1		
5	256QAM	1	24	18.83	18.94	18.74						
5	256QAM	12	0	18.97	18.98	18.87			20.5	1.1		
5	256QAM	12	7	18.93	18.89	18.98						
5	256QAM	12	13	18.90	18.91	18.92			20.5	1.1		
5	256QAM	25	0	18.92	18.96	18.81						
Channel												
Frequency (MHz)												
3	QPSK	1	0	20.32	20.45	20.35			21.6	0		
3	QPSK	1	8	20.24	20.43	20.12						
3	QPSK	1	14	20.35	20.27	20.21			21.6	0		
3	QPSK	8	0	20.25	20.34	20.16						
3	QPSK	8	4	20.20	20.25	20.08			21.6	0		
3	QPSK	8	14	20.28	20.28	20.19						
3	QPSK	16	0	20.16	20.33	20.17			21.6	0		
3	16QAM	1	0	20.24	20.39	20.17						
3	16QAM	1	8	20.01	20.28	19.99			21.6	0		
3	16QAM	1	14	20.26	20.07	19.97						
3	16QAM	8	0	20.32	20.39	20.27			21.6	0		
3	16QAM	8	4	20.25	20.34	20.18						
3	16QAM	8	14	20.33	20.23	20.18			21.6	0		
3	16QAM	16	0	19.97	20.12	19.82						
3	16QAM	16	8	19.93	20.03	19.83			20.5	1.1		
3	16QAM	16	14	19.77	19.88	19.80						
3	256QAM	8	0	19.01	19.11	18.84			20.5	1.1		
3	256QAM	8	8	19.01	19.09	18.88						
3	256QAM	8	14	18.88	18.86	18.86			20.5	1.1		
3	256QAM	16	0	18.81	18.92	18.74						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	19.67	19.80	19.14			21.6	0		
1.4	QPSK	1	0	20.32	20.44	20.30						
1.4	QPSK	1	0	20.47	20.21	20.12			21.6	0		
1.4	QPSK	1	5	20.33	20.21	20.18						
1.4	QPSK	3	0	20.27	20.31	20.14			21.6	0		
1.4	QPSK	3	0	20.25	20.25	20.12						
1.4	QPSK	3	3	20.18	20.22	20.12			21.6	0		
1.4	QPSK	3	3	20.17	20.20	20.05						
1.4	QPSK	1	0	20.17	20.30	20.01			21.6	0		
1.4	QPSK	1	5	20.07	20.22	20.04						
1.4	QPSK	1	5	20.28	20.09	19.94			21.6	0		
1.4	QPSK	1	5	20.34	20.14	20.04						
1.4	QPSK	3	3	20.47	20.48	20.38			21.6	0		
1.4	QPSK	3	3	20.12	20.39	20.04						
1.4	QPSK	3	3	20.33	20.14	20.04			21.6	0		
1.4	QPSK	3	3	20.26	20.49	20.23						
1.4	QPSK	1	0	20.11	20.28	20.18			21.6	0		
1.4	QPSK	1	0	20.00	20.00	19.99						
1.4	QPSK	1	0	20.00	20.00	19.99			21.6	0		
1.4	QPSK	1	0									



Band 38 Ant3											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (dBm)	MFR (dB)			
Channel											
	Frequency (MHz)			37650	38050	38150					
20	QPSK	1	0	21.83	21.85	21.84	23.2	0			
20	QPSK	1	48	21.87	21.83	21.49					
20	QPSK	50	0	21.74	21.84	21.84	23	0.2			
20	QPSK	50	0	21.69	21.81	21.65					
20	QPSK	50	24	21.46	21.76	21.54	23	0.2			
20	QPSK	50	24	20.54	20.40	20.30					
20	HQAM	1	48	21.54	21.62	21.71	23	0.2			
20	HQAM	100	0	21.72	21.81	21.65					
20	HQAM	1	0	21.66	21.73	21.61	22	1.2			
20	HQAM	50	24	20.37	20.40	20.08					
20	HQAM	50	24	20.37	20.40	20.08	22	1.2			
20	HQAM	50	50	20.40	20.35	20.23					
20	HQAM	1	0	20.49	20.55	20.35	22	1.2			
20	HQAM	1	48	20.46	20.39	20.11					
20	HQAM	1	96	20.33	20.31	20.33	21	2.2			
20	HQAM	50	0	19.46	19.51	19.38					
20	HQAM	50	24	19.46	19.58	19.43	19	4.2			
20	HQAM	50	50	19.37	19.33	19.15					
20	HQAM	100	0	19.36	19.37	19.26	19	4.2			
20	HQAM	100	0	17.50	17.53	17.54					
20	HQAM	1	48	17.54	17.56	17.54	19	4.2			
20	HQAM	1	96	17.34	17.37	17.22					
20	HQAM	50	24	17.44	17.54	17.38	19	4.2			
20	HQAM	50	50	17.38	17.53	17.18					
20	HQAM	100	0	17.38	17.53	17.18	19	4.2			
Channel											
	Frequency (MHz)			37650	38050	38150			Turn-up time (dBm)	MFR (dB)	
15	QPSK	1	0	21.75	21.83	21.84	23.2	0			
15	QPSK	1	37	21.80	21.88	21.47					
15	QPSK	1	74	21.70	21.86	21.36	23	0.2			
15	QPSK	36	0	21.57	21.75	21.64					
15	QPSK	36	20	21.35	21.63	21.26	23	0.2			
15	QPSK	36	20	21.46	21.69	21.29					
15	QPSK	75	0	21.59	21.77	21.42	23	0.2			
15	HQAM	1	0	21.61	21.63	21.49					
15	HQAM	1	37	21.46	21.69	21.29	22	1.2			
15	HQAM	1	74	21.57	21.44	21.34					
15	HQAM	36	0	20.41	20.40	20.25	22	1.2			
15	HQAM	36	20	20.35	20.35	20.20					
15	HQAM	36	20	20.36	20.31	20.11	22	1.2			
15	HQAM	75	0	20.48	20.43	20.23					
15	HQAM	75	0	20.37	20.48	20.16	21	2.2			
15	HQAM	1	37	20.56	20.29	20.10					
15	HQAM	1	74	20.27	20.26	20.13	19	4.2			
15	HQAM	36	0	19.36	19.55	19.38					
15	HQAM	36	20	19.36	19.44	19.37	19	4.2			
15	HQAM	36	20	19.37	19.43	19.25					
15	HQAM	75	0	19.33	19.31	19.05	19	4.2			
15	HQAM	75	0	17.41	17.42	17.23					
15	HQAM	1	37	17.41	17.43	17.25	19	4.2			
15	HQAM	1	74	17.20	17.21	17.10					
15	HQAM	36	0	17.40	17.48	17.34	19	4.2			
15	HQAM	36	20	17.39	17.47	17.36					
15	HQAM	36	20	17.39	17.47	17.10	19	4.2			
15	HQAM	75	0	17.38	17.37	17.12					
Channel											
	Frequency (MHz)			37650	38050	38050	Turn-up time (dBm)	MFR (dB)			
10	QPSK	1	0	21.76	21.83	21.84	23.2	0			
10	QPSK	1	25	21.83	21.87	21.46					
10	QPSK	1	48	21.67	21.81	21.38	23	0.2			
10	QPSK	1	48	21.65	21.82	21.62					
10	QPSK	25	0	21.35	21.59	21.29	23	0.2			
10	QPSK	25	12	21.41	21.67	21.31					
10	HQAM	1	0	21.86	21.81	21.47	23	0.2			
10	HQAM	1	25	21.41	21.84	21.23					
10	HQAM	1	48	21.62	21.67	21.51	22	1.2			
10	HQAM	25	0	20.51	20.46	20.26					
10	HQAM	25	12	20.34	20.29	20.21	22	1.2			
10	HQAM	50	0	20.35	20.35	20.20					
10	HQAM	50	0	20.48	20.47	20.02	22	1.2			
10	HQAM	50	0	19.40	19.52	19.35					
10	HQAM	1	25	20.35	20.32	20.00	21	2.2			
10	HQAM	1	48	20.30	20.28	20.10					
10	HQAM	25	0	19.40	19.52	19.35	21	2.2			
10	HQAM	25	12	19.34	19.45	19.36					
10	HQAM	25	12	19.24	19.21	19.07	19	4.2			
10	HQAM	50	0	19.30	19.23	19.18					
10	HQAM	100	0	17.44	17.47	17.22	19	4.2			
10	HQAM	1	48	17.37	17.26	17.02					
10	HQAM	1	48	17.21	17.31	17.06	19	4.2			
10	HQAM	25	0	17.41	17.47	17.27					
10	HQAM	25	12	17.35	17.43	17.24	19	4.2			
10	HQAM	25	12	17.30	17.27	17.10					
10	HQAM	50	0	17.38	17.28	17.03	19	4.2			
10	HQAM	50	0	17.38	17.27	17.03					

Band 41 Ant3											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MFR (dB)
Channel											
	Frequency (MHz)			39750	40185	40020	41005	41480			
20	QPSK	1	0	21.83	21.85	21.83	21.86	21.82		23.2	0
20	QPSK	1	48	21.73	21.78	21.74	21.62	21.71			
20	QPSK	50	0	21.68	21.80	21.70	21.68	21.68		23.2	0
20	QPSK	50	24	21.67	21.84	21.78	21.41	21.54			
20	QPSK	50	24	21.70	21.82	21.85	21.26	21.57		23.2	0
20	QPSK	100	0	21.70	21.80	21.60	21.66	21.75			
20	HQAM	1	0	21.79	21.76	21.88	21.58	21.57		23.2	0
20	HQAM	1	96	21.61	21.82	21.72	21.38	21.47			
20	HQAM	50	0	21.69	21.72	21.75	21.60	21.71		23.2	0
20	HQAM	50	24	21.61	21.82	21.84	21.24	21.47			
20	HQAM	50	50	21.64	21.44	21.78	21.50	21.50		23.2	0
20	HQAM	100	0	21.67	21.75	21.78	21.57	21.62			
20	HQAM	1	0	21.65	21.87	21.52	21.57	21.54		23.2	0
20	HQAM	1	48	21.65	21.67	21.68	21.44	21.62			
20	HQAM	1	96	21.52	21.72	21.66	21.52	21.58		23.2	0
20	HQAM	50	0	21.57	21.54	21.52	21.40	21.34			
20	HQAM	50	24	21.57	21.24	21.32	21.20	21.20		22.5	0.7
20	HQAM	50	50	21.53	21.37	21.45	21.17	21.34			
20	HQAM	100	0	21.56	21.40	21.47	21.38	21.32		20.5	2.7
20	HQAM	100	0	19.28	19.38	19.49	19.34	19.21			
20	HQAM	1	48	19.28	19.30	19.39	19.11	19.31		20.5	2.7
20	HQAM	1	96	19.18	19.32	19.14	19.18	19.18			
20	HQAM	50	24	19.15	18.97	19.17	18.98	19.05		20.5	2.7
20	HQAM	50	50	19.21	19.18	19.33	18.86	19.15			
20	HQAM	100	0	19.38	19.11	19.30	19.03	19.10			
Channel											
	Frequency (MHz)			39750	40173	40020	41008	41515		Turn-up time (dBm)	MFR (dB)
15	QPSK	1	0	21.70	21.85	21.63	21.67	21.63		23	0
15	QPSK	1	37	21.68	21.84	21.70	21.49	21.65			
15	QPSK	1	74	21.46	21.62	21.62	21.61	21.51		23.2	0
15	QPSK	36	0	21.68	21.68	21.60	21.68	21.68			
15	QPSK	36	20	21.59	21.50	21.65	21.30	21.47		23.2	0
15	QPSK	36	20	21.69	21.70	21.62	21.49	21.48			
15	QPSK	75	0	21.66	21.70	21.85	21.59	21.71		23.2	0
15	HQAM	1	0	21.7	21.73	21.73	21.55	21.44			
15	HQAM	1	37	21.56	21.81	21.67	21.37	21.46		23.2	0
15	HQAM	1	74	21.50	21.63	21.56	21.44	21.53			
15	HQAM	36	0	21.66	21.69	21.70	21.66	21.66		23.2	0
15	HQAM	36	20	21.59	21.50	21.70	21.35	21.58			
15	HQAM	36	20	21.69	21.70	21.62	21.49	21.38		23.2	0
15	HQAM	36	36	21.56	21.38	21.73	21.39	21.47			
15	HQAM	75	0	21.66	21.70	21.85	21.59	21.71		23.2	0
15	HQAM	1	0	21.68	21.87	21.62	21.38	21.48			
15	HQAM	1	37	21.62	21.57	21.62	21.38	21.45		23.2	0
15	HQAM	1	74	21.48	21.64	21.64	21.64	21.48			
15	HQAM	36	0	21.62	21.39	21.40	21.15	21.14		22.5	0.7
15	HQAM	36	20	21.57	21.30	21.58	21.68	21.50			
15	HQAM	36	20	21.68	21.69	21.65	21.37	21.12		22.5	0.7
15	HQAM	75	0	21.39	21.15	21.38	21.22	21.15			
15	HQAM	1	0	19.24	19.30	19.28	19.24	19.14		20.5	2.7
15	HQAM	1	37	19.38	19.29	19.35	19.24	19.22			
15	HQAM	1	74	19.07	19.18	19.08	19.08	19.02		20.5	2.7
15	HQAM	36	0	19.08	19.08	19.08	19.08	19.02			
15	HQAM	36	20	19.05	18.90	19.05	19.15	19.02		20.5	2.7
15	HQAM	36	30	18.99	18.91	19.08	18.85	18.85			
15	HQAM	100	0	19.16	18.74	19.14	18.87	19.06			
Channel											
	Frequency (MHz)			39675	40160	40020	41008	41568		Turn-up time (dBm)	MFR (dB)
5	QPSK	1	0	21.81	21.79	21.69	21.60	21.61		23	0
5	QPSK	1	25	21.81	21.75	21.70	21.42	21.66			
5	QPSK	1	48	21.47	21.79	21.58	21.41	21.61		23	0
5	QPSK	1	74	21.46	21.67	21.67	21.65	21.68			
5	QPSK	12	0	21.63	21.61	21.73	21.38	21.49		23.2	0
5	QPSK	12	25	21.68	21.63	21.65	21.49	21.58			
5	QPSK	60	0	21.63	21.71	21.80	21.59	21.71		23.2	0
5	HQAM	1	0	21.69	21.65	21.78	21.46	21.48			
5	HQAM	1	25	21.60	21.63	21.68	21.38	21.69		23.2	0
5	HQAM	1	49	21.53	21.83	21.45	21.30	21.42			
5	HQAM	25	0	21.64	21.59	21.68	21.37	21.59		23.2	0
5	HQAM	25	25	21.52	21.47	21.47	21.39	21.49			
5	HQAM	25	25	21.53	21.39	21.71	21.29	21.48		23.2	0
5	HQAM	50	0	21.57	21.61	21.68	21.46	21.59			
5	HQAM	50	0	21.67	21.78	21.88	21.44	21.45		23.2	0
5	HQAM	1	25	21.61	21.60	21.68	21.30	21.51			
5	HQAM	1	48	21.48	21.61	21.61	21.52	21.52		23.2	0
5	HQAM	25	0	21.42	21.38	21.37	21.28	21.28			
5	HQAM	25	12	21.21	21.02	21.14	21.13	21.30		22.5	0.7
5	HQAM	25	25	21.08	21.12	21.12	21.09	21.28			
5	HQAM	50	0	21.40	21.29	21.40	21.13	21.26		22.5	0.7
5	HQAM	50	0	19.09	19.08	19.36	19.12	19.26			
5	HQAM	1	25	19.12	19.20	19.21	19.04	19.22		20.5	2.7
5	HQAM	1	49	19.03	19.27	18.87	19.12	19.02			
5	HQAM	1	74	19.06	19.11	19.06	19.06	19.06		20.5	2.7
5	HQAM	25	12	19.11	18.84	19.04	19.05	19.05			
5	HQAM	25	25	19.08	18.99	19.11	18.88	19.04		20.5	2.7
5	HQAM	50	0	19.24	19.08	19.08	19.08	19.02			
Channel											
	Frequency (MHz)			39675	40148	40020	41008	41568		Turn-up time (dBm)	MFR (dB)
5	QPSK	1	12	21.65	21.72	21.68	21.42	21.67		23	0
5	QPSK	1	24	21.65	21.61	21.61	21.44	21.63			
5	QPSK	12	0	21.68	21.67	21.63	21.48	21.68		23.2	0
5	QPSK	12	7	21.60	21.50	21.67	21.38	21.43			
5	QPSK	25	13	21.60	21.58	21.68	21.39	21.54		23.2	0
5	QPSK	25	0	21.57	21.68	21.65	21.54	21.64			
5	HQAM	1	0	21.69	21.71	21.75	21.51	21.49		23.2	0
5	HQAM	1	12	21.56	21.82	21.68	21.37	21.57			
5	HQAM	1	24	21.44	21.81	21.47	21.40	21.49		23.2	0
5	HQAM	12	0	21.56	21.68	21.71	21.54	21.68			
5	HQAM	12	12	21.54	21.40	21.69	21.38	21.38		23.2	0
5	HQAM	12	13	21.60	21.37	21.74	21.29	21.39			
5	HQAM	25	0	21.57	21.64	21.64	21.46	21.59		23.2	0
5	HQAM	25	0	21.66	21.73	21.80	21.54	21.46			
5	HQAM	1	12	21.61	21.60	21.65	21.41	21.54		23.2	0
5	HQAM	1	24	21.48	21.61	21.61	21.50	21.50			
5	HQAM	12	0	21.30	21.40	21.26	21.14	21.07		22.5	0.7
5	HQAM	12	7	21.33	21.16	21.28	21.06	21.20			
5	HQAM	12	13	21.19	21.12	21.23	21.09	21.28		22.5	0.7
5	HQAM	25	0	21.30	21.13	21.30	21.17	21.22			
5	HQAM	1	0	19.11	19.22	19.27	19.04	19.06		20.5	2.7
5	HQAM	1	12	19.12	19.13	19.24	19.04	19.21			
5	HQAM	1	24	19.07	19.27	18.91	19.04	19.09		20.5	2.7
5	HQAM	12	0	19.21	19.17	19.18	19.04	19.09			
5	HQAM	12	7	19.07	19.07	19.06	19.04	19.05		20.5	2.7
5	HQAM	12	13	19.04	18.94	19.21	18.99	19.02			



Band 48_FCC Ant3															
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid-Hi Ch / Freq	Power High Mid-Hi Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)						
Channel				56340	56890	56190	56640								
Frequency (MHz)				3600	3600	3640	3640								
20	QPSK	1	0	19.80	19.95	19.82	19.88	20.8	0						
20	QPSK	1	49	19.69	19.80	19.84	19.77								
20	QPSK	1	99	19.85	19.72	19.80	19.86								
20	QPSK	50	0	19.71	19.86	19.87	19.77								
20	QPSK	50	24	19.68	19.72	19.69	19.72	20.8	0						
20	QPSK	50	50	19.87	19.73	19.74	19.72								
20	QPSK	100	0	19.60	19.83	19.68	19.75								
20	HQAM	1	0	19.65	19.85	19.83	19.73								
20	HQAM	1	49	19.87	19.80	19.88	19.75	20.8	0						
20	HQAM	1	99	19.80	19.74	19.85	19.76								
20	HQAM	50	0	19.73	19.81	19.85	19.81								
20	HQAM	50	24	19.63	19.87	19.83	19.76								
20	HQAM	50	50	19.63	19.66	19.74	19.70	20.8	0						
20	HQAM	100	0	19.65	19.77	19.59	19.69								
20	HQAM	1	0	19.68	19.84	19.55	19.83								
20	HQAM	1	49	19.84	19.81	19.72	19.70								
20	256QAM	1	0	19.91	19.84	19.85	19.82	20.8	0						
20	256QAM	1	99	19.82	19.88	19.88	19.86								
20	256QAM	50	0	19.80	19.88	19.86	19.88								
20	256QAM	50	24	19.91	19.93	19.81	19.93								
20	256QAM	50	50	19.83	19.81	19.89	19.84	20.8	0						
20	256QAM	100	0	19.92	19.80	19.93	19.92								
Channel				56315	56920	56160	56665					Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3627.5	3675	3642.5	3672.5								
15	QPSK	1	0	19.72	19.75	19.78	19.77	20.8	0						
15	QPSK	1	37	19.81	19.72	19.79	19.73								
15	QPSK	1	74	19.86	19.69	19.73	19.80								
15	QPSK	36	0	19.63	19.71	19.67	19.74								
15	QPSK	36	20	19.63	19.69	19.56	19.61	20.8	0						
15	QPSK	36	0	19.62	19.68	19.61	19.68								
15	QPSK	75	0	19.50	19.77	19.64	19.70								
15	HQAM	1	0	19.62	19.78	19.79	19.68								
15	HQAM	1	37	19.81	19.70	19.56	19.70	20.8	0						
15	HQAM	1	74	19.72	19.62	19.55	19.74								
15	HQAM	36	0	19.69	19.77	19.68	19.77								
15	HQAM	36	20	19.67	19.64	19.52	19.75								
15	HQAM	36	39	19.65	19.60	19.71	19.57	20.8	0						
15	HQAM	75	0	19.46	19.52	19.84	19.64								
15	HQAM	1	0	19.66	19.78	19.73	19.77								
15	HQAM	1	37	19.97	19.62	19.52	19.76								
15	HQAM	1	74	19.66	19.66	19.59	19.77	20.8	0						
15	HQAM	36	0	19.60	19.74	19.64	19.65								
15	HQAM	36	20	19.64	19.61	19.58	19.64								
15	HQAM	36	39	19.64	19.62	19.60	19.58								
15	HQAM	75	0	19.55	19.52	19.42	19.56	20.8	0						
15	256QAM	1	0	19.68	19.78	19.67	19.87								
15	256QAM	1	37	19.82	19.81	19.72	19.81								
15	256QAM	1	74	19.72	19.82	19.75	19.81								
15	256QAM	36	0	19.87	19.87	19.75	19.85	20.8	0						
15	256QAM	36	20	19.88	19.84	19.79	19.81								
15	256QAM	36	39	19.80	19.79	19.67	19.71								
15	256QAM	75	0	19.84	19.86	19.69	19.86								
Channel				56290	56815	56160	56665	Tune-up limit (dBm)	MPR (dB)						
Frequency (MHz)				3625	3697.5	3642.5	3695								
10	QPSK	1	0	19.76	19.83	19.69	19.86	20.8	0						
10	QPSK	1	25	19.60	19.73	19.75	19.71								
10	QPSK	1	49	19.54	19.61	19.68	19.66								
10	QPSK	36	0	19.60	19.82	19.65	19.65								
10	QPSK	25	12	19.59	19.59	19.60	19.60	20.8	0						
10	QPSK	25	25	19.60	19.68	19.65	19.68								
10	QPSK	50	0	19.54	19.75	19.59	19.67								
10	HQAM	1	0	19.82	19.72	19.79	19.65								
10	HQAM	1	25	19.60	19.70	19.85	19.63	20.8	0						
10	HQAM	1	49	19.75	19.71	19.50	19.64								
10	HQAM	25	0	19.69	19.68	19.61	19.83								
10	HQAM	25	12	19.60	19.62	19.59	19.65								
10	HQAM	25	25	19.55	19.64	19.65	19.67	20.8	0						
10	HQAM	50	0	19.49	19.55	19.62	19.58								
10	HQAM	1	0	19.63	19.88	19.66	19.75								
10	HQAM	1	25	19.59	19.65	19.55	19.74								
10	HQAM	1	49	19.52	19.72	19.79	19.65	20.8	0						
10	HQAM	25	0	19.60	19.70	19.79	19.66								
10	HQAM	25	12	19.62	19.68	19.64	19.61								
10	HQAM	25	25	19.55	19.64	19.65	19.67								
10	HQAM	50	0	19.49	19.55	19.62	19.58	20.8	0						
10	HQAM	1	0	19.63	19.88	19.66	19.75								
10	HQAM	1	25	19.59	19.65	19.55	19.74								
10	HQAM	1	49	19.52	19.70	19.79	19.65								
10	HQAM	25	0	19.60	19.70	19.85	19.63	20.8	0						
10	HQAM	25	12	19.61	19.69	19.57	19.57								
10	HQAM	25	25	19.54	19.61	19.58	19.59								
10	HQAM	50	0	19.61	19.58	19.52	19.57								
10	256QAM	1	0	19.63	19.76	19.58	19.60	20.8	0						
10	256QAM	1	25	19.69	19.86	19.77	19.89								
10	256QAM	1	49	19.69	19.80	19.78	19.75								
10	256QAM	25	0	19.83	19.65	19.80	19.83								
10	256QAM	25	12	19.79	19.82	19.68	19.83	20.8	0						
10	256QAM	25	25	19.75	19.77	19.80	19.76								
10	256QAM	50	0	19.80	19.76	19.82	19.82								
Channel				56265	56815	5642.5	5697.5					Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3622.5	3607	3643	3697.5								
5	QPSK	1	0	19.68	19.80	19.69	19.79	20.8	0						
5	QPSK	1	12	19.55	19.73	19.81	19.64								
5	QPSK	1	24	19.54	19.65	19.72	19.85								
5	QPSK	12	0	19.57	19.61	19.71	19.66								
5	QPSK	12	7	19.54	19.63	19.66	19.69	20.8	0						
5	QPSK	12	13	19.67	19.71	19.71	19.64								
5	QPSK	25	0	19.56	19.79	19.63	19.72								
5	HQAM	1	0	19.60	19.79	19.79	19.66								
5	HQAM	1	12	19.62	19.68	19.64	19.61	20.8	0						
5	HQAM	1	24	19.73	19.72	19.57	19.73								
5	HQAM	12	0	19.62	19.78	19.57	19.89								
5	HQAM	12	7	19.58	19.69	19.59	19.65								
5	HQAM	12	13	19.55	19.64	19.70	19.68	20.8	0						
5	HQAM	25	0	19.66	19.63	19.66	19.68								
5	HQAM	12	0	19.61	19.78	19.74	19.77								
5	HQAM	12	7	19.62	19.62	19.49	19.73								
5	HQAM	12	13	19.61	19.61	19.69	19.72	20.8	0						
5	HQAM	25	0	19.59	19.69	19.55	19.58								
5	HQAM	25	12	19.56	19.60	19.60	19.60	20.8	0						
5	HQAM	25	13	19.55	19.62	19.55	19.57								
5	HQAM	12	0	19.59	19.67	19.48	19.50	20.8	0						
5	HQAM	25	0	19.70	19.70	19.70	19.70								
5	256QAM	1	0	19.80	19.90	19.76	19.86	20.8	0						
5	256QAM	1	24	19.70	19.85	19.80	19.77								
5	256QAM	1	49	19.85	19.85	19.80	19.85	20.8	0						
5	256QAM	12	7	19.87	19.78	19.76	19.85								
5	256QAM	12	13	19.77	19.96	19.86	19.86	20.8	0						
5	256QAM	25	0	19.81	19.79	19.81	19.82								

Band 48_FCC Ant5														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power High Modem Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MFR (dB)					
Channel				56500	56590	56700	56800							
Frequency (MHz)				56600	56700	56800	56900							
20	QPSK	1	0	22.40	22.43	22.55	22.58	23.3	0					
20	QPSK	1	49	22.40	22.48	22.45	22.36							
20	QPSK	1	99	22.41	22.54	22.41	22.29							
20	QPSK	50	0	22.45	22.54	22.52	22.27							
20	QPSK	50	24	22.41	22.46	22.39	22.27	23.3	0					
20	QPSK	50	50	22.40	22.48	22.40	22.28							
20	QPSK	100	0	22.45	22.46	22.38	22.29							
20	16QAM	1	0	22.39	22.59	22.44	22.36	23.3	0					
20	16QAM	1	49	22.40	22.52	22.44	22.45							
20	16QAM	1	99	22.37	22.51	22.36	22.45							
20	16QAM	50	0	22.40	22.41	22.41	22.36							
20	16QAM	50	24	22.35	22.46	22.34	22.39	23.3	0					
20	16QAM	50	50	22.33	22.42	22.37	22.27							
20	16QAM	100	0	22.35	22.41	22.35	22.27							
20	64QAM	1	0	22.45	22.55	22.47	22.42	23.3	0					
20	64QAM	1	49	22.51	22.48	22.43	22.36							
20	64QAM	1	99	22.38	22.46	22.39	22.33							
20	64QAM	50	0	22.42	22.39	22.43	22.43							
20	64QAM	50	24	22.37	22.39	22.27	22.25	23.3	0					
20	64QAM	50	50	22.25	22.38	22.36	22.31							
20	64QAM	100	0	22.30	22.40	22.36	22.30							
20	256QAM	1	0	21.08	21.24	21.21	21.16	23	0.3					
20	256QAM	1	49	21.09	21.19	21.13	21.08							
20	256QAM	1	99	21.00	21.16	21.08	21.11							
20	256QAM	50	0	21.10	21.21	21.20	21.18							
20	256QAM	50	24	21.18	21.24	21.14	21.15	22	1.3					
20	256QAM	50	50	21.08	21.09	21.08	21.09							
20	256QAM	100	0	21.10	21.25	21.16	21.11							
Channel				56715	56800	56760	56865							
Frequency (MHz)				56715	56800	56760	56865							
15	QPSK	1	0	22.37	22.69	22.52	22.23	23.3	0					
15	QPSK	1	37	22.30	22.32	22.33	22.33							
15	QPSK	1	74	22.31	22.40	22.28	22.18							
15	QPSK	86	0	22.41	22.42	22.41	22.15							
15	QPSK	86	20	22.34	22.42	22.28	22.15	23.3	0					
15	QPSK	86	39	22.38	22.43	22.27	22.17							
15	QPSK	75	0	22.43	22.30	22.28	22.16							
15	16QAM	1	0	22.27	22.42	22.33	22.27	23.3	0					
15	16QAM	1	37	22.41	22.42	22.39	22.41							
15	16QAM	1	74	22.27	22.48	22.34	22.43							
15	16QAM	86	0	22.28	22.32	22.39	22.25							
15	16QAM	86	39	22.22	22.36	22.30	22.24	23.3	0					
15	16QAM	86	59	22.26	22.33	22.25	22.26							
15	16QAM	75	0	22.31	22.34	22.31	22.28							
15	64QAM	1	0	22.33	22.50	22.43	22.40							
15	64QAM	1	37	22.30	22.41	22.33	22.26	23.3	0					
15	64QAM	1	74	22.26	22.39	22.21	22.26							
15	64QAM	86	0	22.30	22.30	22.31	22.28							
15	64QAM	86	20	22.26	22.37	22.20	22.15							
15	64QAM	86	39	22.12	22.17	22.16	22.11	23	0.3					
15	64QAM	75	0	22.17	22.20	22.25	22.25							
15	256QAM	1	0	21.03	21.18	21.13	21.10							
15	256QAM	1	37	21.00	21.11	21.05	21.02							
15	256QAM	1	74	21.06	21.14	21.05	21.08	22	1.3					
15	256QAM	86	0	21.06	21.16	21.16	21.09							
15	256QAM	86	20	21.10	21.15	21.11	21.12							
15	256QAM	86	39	20.93	21.01	20.95	21.01							
Channel				56790	56790	56790	56790							
Frequency (MHz)				56790	56790	56790	56790							
10	QPSK	1	0	22.42	22.54	22.41	22.28	23.3	0					
10	QPSK	1	25	22.37	22.36	22.34	22.24							
10	QPSK	1	49	22.31	22.61	22.29	22.20							
10	QPSK	15	0	22.31	22.49	22.40	22.25							
10	QPSK	25	12	22.28	22.32	22.27	22.22	23.3	0					
10	QPSK	25	25	22.30	22.42	22.37	22.16							
10	16QAM	1	0	22.42	22.40	22.25	22.13							
10	16QAM	1	0	22.31	22.46	22.37	22.29	23.3	0					
10	16QAM	1	25	22.47	22.44	22.41	22.41							
10	16QAM	1	49	22.47	22.37	22.28	22.38							
10	16QAM	25	0	22.33	22.27	22.36	22.27							
10	16QAM	25	12	22.25	22.33	22.29	22.26	23.3	0					
10	16QAM	25	25	22.15	22.37	22.22	22.25							
10	16QAM	50	0	22.27	22.38	22.31	22.21							
10	64QAM	1	0	22.39	22.45	22.39	22.29	23.3	0					
10	64QAM	1	25	22.42	22.42	22.41	22.29							
10	64QAM	1	49	22.27	22.44	22.18	22.25							
10	64QAM	25	0	22.20	22.25	22.37	22.39							
10	64QAM	25	12	22.25	22.29	22.18	22.13	23.3	0					
10	64QAM	25	25	22.18	22.35	22.32	22.24							
10	64QAM	80	0	22.10	22.30	22.33	22.24							
10	256QAM	1	0	21.04	21.21	21.16	21.04	23	0.3					
10	256QAM	1	25	21.05	21.10	21.05	21.05							
10	256QAM	1	49	21.05	21.12	21.03	21.02							
10	256QAM	25	0	21.09	21.17	21.18	21.14							
10	256QAM	25	12	21.06	21.20	21.15	21.12	22	1.3					
10	256QAM	25	25	21.00	21.05	20.98	21.01							
10	256QAM	50	0	21.07	21.14	20.98	21.06							
Channel				56815	56815	56815	56815							
Frequency (MHz)				56815	56815	56815	56815							
5	QPSK	1	0	22.37	22.59	22.50	22.33	23.3	0					
5	QPSK	1	12	22.30	22.37	22.41	22.33							
5	QPSK	1	24	22.30	22.47	22.28	22.25							
5	QPSK	12	0	22.34	22.40	22.43	22.21							
5	QPSK	12	7	22.30	22.39	22.28	22.13	23.3	0					
5	QPSK	12	13	22.26	22.41	22.34	22.15							
5	QPSK	25	0	22.37	22.38	22.26	22.07							
5	16QAM	1	0	22.30	22.51	22.40	22.28							
5	16QAM	1	12	22.37	22.41	22.39	22.41	23.3	0					
5	16QAM	1	24	22.28	22.41	22.35	22.24							
5	16QAM	12	0	22.34	22.39	22.37	22.27							
5	16QAM	12	7	22.27	22.38	22.21	22.27							
5	16QAM	12	13											



Reduced Power Mode for Main PA DSI3

		GSM 850 Axi					
GSM850		Band Average Power (dBm)			Frame Average Power (dBm)		
Tx Channel		850.2	850.4	850.8	850.2	850.4	850.8
Frequency (MHz)		850.2	850.4	850.8	850.2	850.4	850.8
GSM 1 Tx max		33.08	33.01	32.95	33.08	34.01	33.95
GPRS 1 Tx max		33.02	33.04	33.06	33.02	34.04	33.98
GPRS 2 Tx max		29.81	29.83	29.85	30.85	23.83	23.85
GPRS 3 Tx max		29.25	29.27	29.29	29.25	23.27	23.29
GPRS 4 Tx max		28.40	28.42	28.43	27.80	23.40	23.43
EDGE 1 Tx max		23.51	23.54	23.56	18.51	18.54	18.56
EDGE 2 Tx max		23.88	23.89	23.88	17.88	17.89	17.88
EDGE 3 Tx max		22.57	22.67	22.61	16.57	16.61	16.58
EDGE 4 Tx max		20.58	20.61	20.53	17.58	17.61	17.53

		GSM 1900 Axi					
GSM1900		Band Average Power (dBm)			Frame Average Power (dBm)		
Tx Channel		1850.2	1850	1850.8	1850.2	1850	1850.8
Frequency (MHz)		1850.2	1850	1850.8	1850.2	1850	1850.8
GSM 1 Tx max		26.81	26.83	26.84	26.80	17.81	17.83
GPRS 1 Tx max		26.80	26.84	26.80	17.80	17.84	17.80
GPRS 2 Tx max		24.47	24.51	24.52	25.40	18.47	18.51
GPRS 3 Tx max		23.51	23.52	23.54	23.25	18.25	18.26
GPRS 4 Tx max		20.76	20.79	20.80	22.46	17.76	17.79
EDGE 1 Tx max		25.10	25.26	24.99	20.10	19.26	19.99
EDGE 2 Tx max		23.85	23.87	23.85	17.85	17.87	17.85
EDGE 3 Tx max		22.38	22.45	22.15	16.10	16.19	17.89
EDGE 4 Tx max		20.27	20.33	20.00	17.27	17.33	17.00

		WCDMA R Axi			WCDMA IV Axi			WCDMA V Axi		
Band		WCDMA R			WCDMA IV			WCDMA V		
Tx Channel		8062	8060	8058	8112	8110	8108	4132	4130	4128
Tx Channel		8062	8060	8058	8112	8110	8108	4132	4130	4128
Frequency (MHz)		1852.4	1850	1847.6	1712.4	1710.6	1708.8	836.4	836.4	836.8
ISPP Rel 99		18.35	18.24	18.38	18.80	17.86	17.86	18.10	24.45	24.52
ISPP Rel 99		18.35	18.40	18.44	18.80	17.86	17.86	18.10	24.45	24.52
ISPP Rel 99		17.20	17.34	17.19	18.60	16.82	16.90	16.87	18.10	23.38
ISPP Rel 99		17.46	17.18	17.33	18.60	16.52	16.71	16.76	18.10	23.14
ISPP Rel 99		18.89	18.88	18.89	18.10	16.30	16.37	16.31	17.80	22.72
ISPP Rel 99		18.89	18.88	18.89	18.10	16.30	16.37	16.31	17.80	22.72
ISPP Rel 99		17.52	17.59	17.23	18.60	16.90	16.98	16.71	18.10	23.51
ISPP Rel 99		17.44	17.26	17.51	18.60	17.04	16.97	16.10	23.56	23.27
ISPP Rel 99		18.89	18.88	17.01	18.10	14.44	16.30	16.86	17.80	22.87
ISPP Rel 99		18.77	18.89	18.92	18.10	16.30	16.49	16.40	17.80	22.81
ISPP Rel 99		17.61	17.30	17.31	18.60	17.06	16.85	16.79	18.10	23.51
ISPP Rel 99		18.30	18.11	18.20	16.60	14.84	14.93	14.63	16.10	21.52
ISPP Rel 99		18.30	18.43	18.20	17.60	15.77	16.04	15.70	17.10	22.26
ISPP Rel 99		18.06	18.07	18.03	16.60	14.63	14.87	15.03	16.10	21.69
ISPP Rel 99		17.44	17.57	17.45	18.60	18.99	17.02	18.89	18.10	23.45



Band 2 Ant0									
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Mod Ch./F.Freq.	Power Hsp Ch./F.Freq.	Power Hsp Ch./F.Freq.	Turn-up Time (sec)	MPR (dB)	
Channel									
Frequency [MHz]									
20	QPSK	1	0	20.35	20.54	20.50			
20	QPSK	1	49	20.36	20.52	20.50	21.3	0	
20	QPSK	1	99	20.31	20.39	20.41			
20	QPSK	50	0	20.38	20.43	20.26			
20	QPSK	50	24	20.15	20.32	20.25	21.3	0	
20	QPSK	50	50	20.27	20.39	20.15			
20	QPSK	100	0	20.33	20.43	20.27			
20	16QAM	50	0	20.32	20.39	20.26			
20	16QAM	1	49	20.26	20.27	20.24	21.3	0	
20	16QAM	1	99	20.23	20.31	20.26			
20	16QAM	50	0	20.36	20.40	20.22			
20	16QAM	50	24	20.17	20.27	20.13	21.3	0	
20	16QAM	50	50	20.10	20.20	20.06			
20	16QAM	50	0	20.34	20.38	20.15			
20	64QAM	1	0	20.25	20.10	20.07	21.3	0	
20	64QAM	1	49	20.24	20.20	20.07			
20	64QAM	1	99	20.27	20.24	20.20			
20	64QAM	50	0	20.28	20.38	20.16			
20	64QAM	50	24	20.12	20.20	20.13	21.3	0	
20	64QAM	50	50	20.16	20.20	20.06			
20	64QAM	100	0	20.22	20.31	20.23			
20	256QAM	1	0	19.86	19.86	19.84			
20	256QAM	1	49	19.89	19.80	19.72	20	1.3	
20	256QAM	1	99	19.92	19.81	19.73			
20	256QAM	50	0	19.96	19.82	19.76			
20	256QAM	50	24	19.68	19.70	19.66	20	1.3	
20	256QAM	50	50	19.58	19.78	19.73			
20	256QAM	100	0	19.97	19.90	19.87			
Channel									
Frequency [MHz]									
15	QPSK	1	0	19.97	19.90	19.75			
15	QPSK	1	49	20.31	20.42	20.41	21.3	0	
15	QPSK	1	74	20.24	20.30	20.36			
15	QPSK	36	0	20.30	20.34	20.22			
15	QPSK	36	0	20.10	20.16	20.03	21.3	0	
15	QPSK	36	39	20.24	20.30	20.25			
15	QPSK	75	0	20.24	20.40	20.18			
15	16QAM	1	0	20.30	20.36	20.35			
15	16QAM	1	37	20.22	20.17	20.11	21.3	0	
15	16QAM	1	74	20.26	20.30	20.32			
15	16QAM	36	0	20.32	20.31	20.11			
15	16QAM	36	20	20.15	20.17	20.11	21.3	0	
15	16QAM	36	0	20.12	20.15	20.10			
15	16QAM	75	0	20.26	20.31	20.01			
15	64QAM	1	0	20.13	20.51	20.26	21.3	0	
15	64QAM	1	37	20.11	20.20	20.10			
15	64QAM	1	74	20.24	20.14	20.25			
15	64QAM	36	0	20.21	20.20	20.05			
15	64QAM	36	0	20.08	20.17	20.15	21.3	0	
15	64QAM	36	39	20.06	20.17	20.15			
15	64QAM	75	0	20.14	20.19	20.08			
15	256QAM	1	0	19.84	19.85	19.87			
15	256QAM	1	37	19.84	19.70	19.65	20	1.3	
15	256QAM	1	74	19.86	19.71	19.64			
15	256QAM	36	0	19.84	19.68	19.63			
15	256QAM	36	39	19.66	19.76	19.64	20	1.3	
15	256QAM	75	0	19.43	19.71	19.67			
Channel									
Frequency [MHz]									
15	QPSK	1	0	20.31	20.42	20.41			
15	QPSK	1	49	20.28	20.30	20.32	21.3	0	
15	QPSK	1	74	20.24	20.30	20.36			
15	QPSK	36	0	20.30	20.34	20.22			
15	QPSK	36	0	20.10	20.16	20.03	21.3	0	
15	QPSK	36	39	20.24	20.30	20.25			
15	QPSK	75	0	20.24	20.40	20.18			
15	16QAM	1	0	20.30	20.36	20.35			
15	16QAM	1	37	20.22	20.17	20.11	21.3	0	
15	16QAM	1	74	20.26	20.30	20.32			
15	16QAM	36	0	20.32	20.31	20.11			
15	16QAM	36	20	20.15	20.17	20.11	21.3	0	
15	16QAM	36	0	20.12	20.15	20.10			
15	16QAM	75	0	20.26	20.31	20.01			
15	64QAM	1	0	20.13	20.51	20.26	21.3	0	
15	64QAM	1	37	20.11	20.20	20.10			
15	64QAM	1	74	20.24	20.14	20.25			
15	64QAM	36	0	20.21	20.20	20.05			
15	64QAM	36	0	20.08	20.17	20.15	21.3	0	
15	64QAM	36	39	20.06	20.17	20.15			
15	64QAM	75	0	20.14	20.19	20.08			
15	256QAM	1	0	19.84	19.85	19.87			
15	256QAM	1	37	19.84	19.70	19.65	20	1.3	
15	256QAM	1	74	19.86	19.71	19.64			
15	256QAM	36	0	19.84	19.68	19.63			
15	256QAM	36	39	19.66	19.76	19.64	20	1.3	
15	256QAM	75	0	19.43	19.71	19.67			
Channel									
Frequency [MHz]									
15	QPSK	1	0	20.31	20.42	20.41			
15	QPSK	1	49	20.28	20.30	20.32	21.3	0	
15	QPSK	1	74	20.24	20.30	20.36			
15	QPSK	36	0	20.30	20.34	20.22			
15	QPSK	36	0	20.10	20.16	20.03	21.3	0	
15	QPSK	36	39	20.24	20.30	20.25			
15	QPSK	75	0	20.24	20.40	20.18			
15	16QAM	1	0	20.30	20.36	20.35			
15	16QAM	1	37	20.22	20.17	20.11	21.3	0	
15	16QAM	1	74	20.26	20.30	20.32			
15	16QAM	36	0	20.32	20.31	20.11			
15	16QAM	36	20	20.15	20.17	20.11	21.3	0	
15	16QAM	36	0	20.12	20.15	20.10			
15	16QAM	75	0	20.26	20.31	20.01			
15	64QAM	1	0	20.13	20.51	20.26	21.3	0	
15	64QAM	1	37	20.11	20.20	20.10			
15	64QAM	1	74	20.24	20.14	20.25			
15	64QAM	36	0	20.21	20.20	20.05			
15	64QAM	36	0	20.08	20.17	20.15	21.3	0	
15	64QAM	36	39	20.06	20.17	20.15			
15	64QAM	75	0	20.14	20.19	20.08			
15	256QAM	1	0	19.84	19.85	19.87			
15	256QAM	1	37	19.84	19.70	19.65	20	1.3	
15	256QAM	1	74	19.86	19.71	19.64			
15	256QAM	36	0	19.84	19.68	19.63			
15	256QAM	36	39	19.66	19.76	19.64	20	1.3	
15	256QAM	75	0	19.43	19.71	19.67			
Channel									
Frequency [MHz]									
14	QPSK	1	0	20.24	20.44	20.28			
14	QPSK	1	49	20.23	20.43	20.27	21.3	0	
14	QPSK	1	99	20.19	20.13	20.07			
14	QPSK	3	0	20.27	20.40	20.19			
14	QPSK	3	0	20.04	20.17	20.02	21.3	0	
14	QPSK	3	3	20.13	20.25	20.20			
14	QPSK	6	0	20.28	20.32	20.20	21.3	0	
14	QPSK	6	0	20.13	20.17	20.11			
14	QPSK	1	3	20.21	20.25	20.20			
14	QPSK	1	6	20.18	20.22	20.21	21.3	0	
14	QPSK	1	9	20.16	20.20	20.14			
14	QPSK	1	12	20.10	20.24	20.09			
14	QPSK	1	3	20.09	20.13	20.07	21.3	0	
14	QPSK	1	6	20.15	20.19	20.14			
14	QPSK	1	9	20.10	20.24	20.09	21.3	0	
14	QPSK	1	12	20.07	20.11	20.05			
14	QPSK	1	15	20.11	20.15	20.11			
14	QPSK	1	18	20.06	20.10	20.06	21.3	0	
14	QPSK	1	21	20.01	20.05	20.01			
14	QPSK	1	24	20.06	20.28	20.01			
14	QPSK	1	27	20.03	20.15	20.01	21.3	0	
14	QPSK	1	30	20.01	20.13	20.01			
14	QPSK	1	33	20.06	20.28	20.01			
14	QPSK	1	36	20.03	20.15	20.01	21.3	0	
14	QPSK	1	39	20.01	20.13	20.01			
14	QPSK	1	42	20.06	20.28	20.01			
14	QPSK	1	45	20.03	20.15	20.01	21.3	0	
14	QPSK	1	48	20.01	20.13	20.01			
14	QPSK	1	51	20.06	20.28	20.01			
14	QPSK	1	54	20.03	20.15	20.01	21.3	0	
14	QPSK	1	57	20.01	20.13	20.01			
14	QPSK	1	60	20.06	20.28	20.01			
14	QPSK	1	63	20.03	20.15	20.01	21.3	0	
14	QPSK	1	66	20.01	20.13	20.01			
14	QPSK	1	69	20.06	20.28	20.01			
14	QPSK	1	72	20.03	20.15	20.01	21.3	0	
14	QPSK	1	75	20.01	20.13	20.01			
14	QPSK	1	78	20.06	20.28	20.01			
14	QPSK	1	81	20.03	20.15	20.01	21.3	0	
14	QPSK	1	84	20.01	20.13	20.01			
14	QPSK	1	87	20.06	20.28	20.01			
14	QPSK	1	90	20.03	20.15	20.01	21.3	0	
14	QPSK	1	93	20.01	20.13	20.01			
14	QPSK	1	96	20.06	20.28	20.01			
14	QPSK	1	99	20.03	20.15	20.01	21.3	0	
14	QPSK	1	102	20.01	20.13	20.01			
14	QPSK	1	105	20.06	20.28	20.01			
14	QPSK	1	108	20.03	20.15	20.01	21.3	0	
14	QPSK	1	111	20.01	2				

Band 12 Ant0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Intvl (sec)	MPR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.59	22.64	22.52	24	0				
10	QPSK	1	25	22.53	22.54	22.43						
10	QPSK	1	49	22.54	22.61	22.43						
10	QPSK	25	0	22.55	22.65	22.49						
10	QPSK	25	12	22.48	22.49	22.48						
10	QPSK	25	25	22.47	22.59	22.41	24	0				
10	QPSK	50	0	22.47	22.54	22.44						
10	16QAM	1	0	22.45	22.49	22.46						
10	16QAM	1	25	22.40	22.42	22.35						
10	16QAM	1	49	22.38	22.42	22.36						
10	16QAM	25	0	21.82	21.89	21.82	23.5	0.5				
10	16QAM	25	12	21.86	21.79	21.71						
10	16QAM	25	25	21.75	21.81	21.76						
10	16QAM	50	0	21.76	21.83	21.73						
10	64QAM	1	0	21.85	21.90	21.87						
10	64QAM	1	25	21.82	21.84	21.78	23.5	0.5				
10	64QAM	1	49	21.83	21.86	21.80						
10	64QAM	25	0	20.78	20.80	20.72						
10	64QAM	25	12	20.87	20.72	20.69						
10	64QAM	25	25	20.69	20.75	20.66						
10	64QAM	50	0	20.71	20.77	20.68	22.5	1.5				
10	256QAM	1	0	18.65	18.69	18.65						
10	256QAM	1	25	18.73	18.83	18.77						
10	256QAM	1	49	18.73	18.83	18.78						
10	256QAM	25	0	18.72	18.82	18.77						
10	256QAM	25	12	18.70	18.74	18.70	20.5	3.5				
10	256QAM	25	25	18.65	18.72	18.66						
10	256QAM	50	0	20.05	20.06	20.05						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.52	22.55	22.48	24	0				
5	QPSK	1	12	22.47	22.48	22.38						
5	QPSK	1	24	22.50	22.52	22.38						
5	QPSK	12	0	22.52	22.54	22.46						
5	QPSK	12	12	22.48	22.43	22.41						
5	QPSK	12	13	22.44	22.42	22.35	24	0				
5	QPSK	25	0	22.41	22.48	22.40						
5	16QAM	1	0	22.41	22.45	22.38						
5	16QAM	1	12	22.34	22.39	22.30						
5	16QAM	1	24	22.32	22.38	22.31	23.5	0.5				
5	16QAM	12	0	21.76	21.80	21.76						
5	16QAM	12	7	21.58	21.70	21.68						
5	16QAM	25	0	21.70	21.78	21.64						
5	64QAM	1	0	21.78	21.79	21.81						
5	64QAM	1	0	21.74	21.80	21.74	22.5	1.5				
5	64QAM	1	24	21.76	21.79	21.61						
5	64QAM	12	0	20.74	20.71	20.62						
5	64QAM	12	13	20.70	20.72	20.63						
5	64QAM	25	0	20.68	20.67	20.63						
5	256QAM	1	0	18.76	18.81	18.73	20.5	3.5				
5	256QAM	1	12	18.69	18.81	18.73						
5	256QAM	1	24	18.66	18.77	18.70						
5	256QAM	12	0	18.73	18.75	18.69						
5	256QAM	12	7	18.61	18.71	18.68						
5	256QAM	12	13	18.61	18.64	18.57	20.5	3.5				
5	256QAM	25	0	18.61	18.72	18.66						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.50	22.55	22.44	24	0				
3	QPSK	1	8	22.50	22.48	22.39						
3	QPSK	1	16	22.51	22.57	22.41						
3	QPSK	8	0	22.47	22.50	22.40						
3	QPSK	8	8	22.43	22.44	22.42						
3	16QAM	1	0	22.44	22.48	22.38	24	0				
3	16QAM	1	8	22.44	22.46	22.36						
3	16QAM	1	0	22.39	22.44	22.43						
3	16QAM	1	8	22.38	22.38	22.25						
3	16QAM	1	16	22.31	22.38	22.23						
3	16QAM	8	0	21.78	21.84	21.80	23.5	0.5				
3	16QAM	8	7	21.72	21.73	21.60						
3	16QAM	15	0	21.87	21.80	21.69						
3	16QAM	15	8	21.81	21.83	21.74						
3	16QAM	15	14	21.75	21.81	21.79						
3	64QAM	1	0	21.82	21.86	21.82	23.5	0.5				
3	64QAM	1	8	21.72	21.82	21.74						
3	64QAM	1	16	21.78	21.81	21.79						
3	64QAM	8	0	20.71	20.68	20.65						
3	64QAM	8	7	20.61	20.67	20.61						
3	64QAM	15	0	20.69	20.68	20.66	22.5	1.5				
3	256QAM	1	0	18.71	18.80	18.75						
3	256QAM	1	8	18.65	18.75	18.67						
3	256QAM	1	16	18.69	18.74	18.72						
3	256QAM	8	0	18.76	18.78	18.75						
3	256QAM	8	4	18.65	18.71	18.63	20.5	3.5				
3	256QAM	8	7	18.58	18.64	18.50						
3	256QAM	15	0	18.62	18.75	18.67						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.53	22.55	22.48	24	0				
1.4	QPSK	1	3	22.46	22.49	22.40						
1.4	QPSK	1	5	22.48	22.56	22.39						
1.4	QPSK	3	0	22.45	22.46	22.36						
1.4	QPSK	3	1	22.42	22.42	22.39						
1.4	QPSK	3	3	22.41	22.41	22.39	24	0				
1.4	QPSK	6	0	22.43	22.47	22.37						
1.4	16QAM	1	0	22.42	22.41	22.39						
1.4	16QAM	1	3	22.33	22.35	22.23						
1.4	16QAM	1	6	22.27	22.35	22.26						
1.4	16QAM	3	0	22.43	22.43	22.36	24	0				
1.4	16QAM	3	1	22.38	22.38	22.27						
1.4	16QAM	3	3	22.31	22.39	22.29						
1.4	16QAM	6	0	21.72	21.76	21.69						
1.4	64QAM	1	0	21.79	21.84	21.84	23.5	0.5				
1.4	64QAM	1	3	21.72	21.77	21.69						
1.4	64QAM	1	5	21.77	21.82	21.77						
1.4	64QAM	3	0	21.80	21.81	21.81						
1.4	64QAM	3	3	21.75	21.77	21.70						
1.4	64QAM	6	0	20.62	20.69	20.62	22.5	1.5				
1.4	256QAM	1	0	18.72	18.86	18.78						
1.4	256QAM	1	3	18.71	18.75	18.72						
1.4	256QAM	1	5	18.71	18.73	18.76						
1.4	256QAM	3	0	18.77	18.73	18.69						
1.4	256QAM	3	1	18.67	18.71	18.67	20.5	3.5				
1.4	256QAM	3	3	18.59	18.66	18.56						
1.4	256QAM	6	0	18.65	18.76	18.68						

Band 13 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Intvl (Sec)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.76	22.76	22.76	24	0	
10	QPSK	1	25	22.71	22.71	22.71			
10	QPSK	1	49	22.68	22.68	22.68			
10	QPSK	25	0	22.71	22.71	22.71			
10	QPSK	25	12	22.64	22.64	22.64			
10	QPSK	25	25	22.62	22.62	22.62	24	0	
10	QPSK	50	0	22.63	22.63	22.63			
10	16QAM	1	0	22.55	22.55	22.55			
10	16QAM	1	25	22.48	22.48	22.48			
10	16QAM	1	49	22.53	22.53	22.53			
10	16QAM	25	0	22.54	22.54	22.54	23.5	0.5	
10	16QAM	25	12	22.50	22.50	22.50			
10	16QAM	25	25	22.45	22.45	22.45			
10	16QAM	50	0	22.46	22.46	22.46	23.5	0.5	
10	16QAM	50	25	22.11	22.11	22.11			
10	16QAM	1	26	22.38	22.38	22.38			
10	16QAM	1	49	22.53	22.53	22.53			
10	16QAM	1	73	22.43	22.43	22.43			
10	16QAM	25	12	21.38	21.38	21.38	22.5	1.5	
10	16QAM	25	25	21.30	21.30	21.30			
10	16QAM	25	49	21.34	21.34	21.34			
10	25QAM	1	0	19.11	19.11	19.11			
10	25QAM	1	25	19.10	19.10	19.10			
10	25QAM	1	49	19.11	19.11	19.11	20.5	3.5	
10	25QAM	25	0	19.56	19.56	19.56			
10	25QAM	25	12	19.51	19.51	19.51			
10	25QAM	25	25	19.48	19.48	19.48			
10	25QAM	50	0	19.44	19.44	19.44			
				Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Intvl (Sec)	MPR (dB)	
Channel				779.5	782.5	784.5			
Frequency (MHz)									
10	QPSK	1	0	22.68	22.70	22.64	24	0	
5	QPSK	1	12	22.67	22.61	22.62			
5	QPSK	1	24	22.60	22.63	22.62			
5	QPSK	12	0	22.59	22.67	22.55			
5	QPSK	12	7	22.67	22.61	22.62			
5	QPSK	12	14	22.55	22.65	22.45	24	0	
5	QPSK	25	0	22.52	22.59	22.50			
5	16QAM	1	0	22.43	22.48	22.43			
5	16QAM	1	24	22.46	22.48	22.46			
5	16QAM	1	24	22.39	22.48	22.42			
5	16QAM	12	0	22.18	22.25	22.16	23.5	0.5	
5	16QAM	12	12	22.11	22.21	22.37			
5	16QAM	25	0	22.20	22.23	22.21			
5	16QAM	25	12	22.10	22.05	22.06			
5	16QAM	1	12	22.26	22.38	22.27			
5	16QAM	1	24	22.41	22.47	22.38	22.5	1.5	
5	16QAM	12	7	21.37	21.37	21.26			
5	16QAM	12	7	21.30	21.31	21.27			
5	16QAM	12	13	21.16	21.21	21.16			
5	16QAM	1	12	21.22	21.25	21.20			
5	25QAM	1	0	18.99	19.05	19.01	20.5	3.5	
5	25QAM	1	12	19.14	19.16	19.10			
5	25QAM	1	24	19.42	19.46	19.43			
5	25QAM	12	19	19.39	19.48	19.45			
5	25QAM	12	7	19.35	19.41	19.39			
5	25QAM	1	12	19.41	19.43	19.41	20.5	3.5	
5	25QAM	25	0	19.25	19.35	19.27			

Band 25 Ant0														
BM (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MPN (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	20.42	20.66	20.54	21.3	0						
20	QPSK	1	44	20.41	20.44	20.48								
20	QPSK	1	99	20.42	20.47	20.49								
20	QPSK	50	0	20.44	20.51	20.51								
20	QPSK	50	24	20.27	20.42	20.28	21.3	0						
20	QPSK	50	50	20.32	20.37	20.29								
20	QPSK	100	0	20.40	20.47	20.37								
20	16QAM	1	0	20.36	20.59	20.51								
20	16QAM	1	49	20.37	20.35	20.37	21.3	0						
20	16QAM	1	99	20.33	20.38	20.39								
20	16QAM	50	0	20.41	20.46	20.27								
20	16QAM	50	24	20.24	20.38	20.19								
20	16QAM	50	50	20.26	20.29	20.26	21.3	0						
20	16QAM	100	0	20.37	20.42	20.23								
20	8QAM	1	0	20.32	20.59	20.59								
20	8QAM	1	49	20.31	20.41	20.41								
20	8QAM	1	99	20.30	20.35	20.35	21.3	0						
20	8QAM	50	0	20.36	20.46	20.28								
20	8QAM	50	24	20.17	20.34	20.24								
20	8QAM	50	50	20.19	20.30	20.25								
20	256QAM	1	0	19.66	19.77	19.64	20	1.3						
20	256QAM	1	49	19.66	19.69	19.62								
20	256QAM	50	0	19.57	19.62	19.58								
20	256QAM	50	24	19.51	19.59	19.55								
20	256QAM	50	50	19.45	19.54	19.50								
20	256QAM	100	0	19.45	19.54	19.13								
Channel														
Frequency (MHz)														
15	QPSK	1	0	19.75	19.89	19.84	21.3	0						
15	QPSK	1	37	20.33	20.33	20.42								
15	QPSK	1	74	20.34	20.34	20.43								
15	QPSK	50	0	20.32	20.40	20.23								
15	QPSK	50	25	20.18	20.33	20.27	21.3	0						
15	QPSK	36	39	20.30	20.35	20.22								
15	QPSK	75	0	20.37	20.34	20.36								
15	16QAM	1	0	20.28	20.65	20.39								
15	16QAM	1	37	20.26	20.30	20.30	21.3	0						
15	16QAM	1	74	20.16	20.29	20.24								
15	16QAM	36	0	20.28	20.41	20.15								
15	16QAM	36	20	20.15	20.33	20.08								
15	16QAM	36	36	20.31	20.39	20.16	21.3	0						
15	16QAM	75	0	20.31	20.39	20.16								
15	8QAM	1	0	20.24	20.53	20.43								
15	8QAM	1	37	20.26	20.31	20.32								
15	8QAM	1	74	20.32	20.23	20.32	21.3	0						
15	8QAM	36	0	20.30	20.44	20.15								
15	8QAM	36	26	20.34	20.33	20.17								
15	8QAM	36	36	20.09	20.22	20.13								
15	8QAM	75	0	20.24	20.26	20.26	21.3	0						
15	256QAM	1	0	19.43	19.67	19.69								
15	256QAM	1	37	19.51	19.56	19.56								
15	256QAM	1	74	19.61	19.63	19.62								
15	256QAM	36	0	19.52	19.55	19.49	20	1.3						
15	256QAM	36	20	19.43	19.52	19.52								
15	256QAM	36	39	19.35	19.51	19.41								
15	256QAM	75	0	19.43	19.52	19.43								
Channel														
Frequency (MHz)														
10	QPSK	1	0	20.34	20.39	20.42	21.3	0						
10	QPSK	1	25	20.32	20.31	20.41								
10	QPSK	1	49	20.29	20.41	20.36								
10	QPSK	26	0	20.36	20.36	20.48								
10	QPSK	25	12	20.21	20.40	20.18	21.3	0						
10	QPSK	25	25	20.24	20.30	20.19								
10	QPSK	86	0	20.29	20.39	20.26								
10	16QAM	1	0	20.29	20.46	20.44								
10	16QAM	1	25	20.30	20.31	20.26	21.3	0						
10	16QAM	1	49	20.26	20.33	20.29								
10	16QAM	25	0	20.29	20.39	20.25								
10	16QAM	25	12	20.19	20.25	20.16								
10	16QAM	26	0	20.16	20.24	20.11	21.3	0						
10	16QAM	50	0	20.33	20.37	20.11								
10	8QAM	1	0	20.27	20.45	20.48								
10	8QAM	1	26	20.24	20.32	20.27								
10	8QAM	1	49	20.30	20.27	20.26	21.3	0						
10	8QAM	25	0	20.29	20.44	20.23								
10	8QAM	25	12	20.12	20.24	20.16								
10	8QAM	25	25	20.15	20.23	20.19								
10	256QAM	1	0	19.65	19.68	19.57	20	1.3						
10	256QAM	1	25	19.59	19.65	19.54								
10	256QAM	1	49	19.59	19.64	19.56								
10	256QAM	25	0	19.51	19.58	19.52								
10	256QAM	25	12	19.44	19.51	19.44	20	1.3						
10	256QAM	25	25	19.37	19.50	19.50								
10	256QAM	50	0	19.46	19.51	19.47								
10	256QAM	50	0	19.46	19.51	19.47								
Channel														
Frequency (MHz)														
5	QPSK	1	0	20.29	20.42	20.42	21.3	0						
5	QPSK	1	12	20.33	20.31	20.36								
5	QPSK	1	24	20.39	20.39	20.41								
5	QPSK	12	0	20.32	20.38	20.19								
5	QPSK	12	7	20.17	20.39	20.23	21.3	0						
5	QPSK	12	13	20.19	20.33	20.16								
5	QPSK	26	0	20.32	20.34	20.21								
5	16QAM	1	0	20.26	20.48	20.46								
5	16QAM	1	12	20.24	20.27	20.33	21.3	0						
5	16QAM	1	24	20.29	20.31	20.34								
5	16QAM	12	0	20.29	20.42	20.18								
5	16QAM	12	7	20.14	20.30	20.13								
5	16QAM	12	13	20.23	20.22	20.14	21.3	0						
5	16QAM	25	0	20.25	20.37	20.21								
5	8QAM	1	0	20.23	20.47	20.45								
5	8QAM	1	12	20.21	20.37	20.28								
5	8QAM	1	24	20.32	20.28	20.29	21.3	0						
5	8QAM	12	0	20.31	20.35	20.16								
5	8QAM	12	7	20.05	20.23	20.12								
5	8QAM	12	13	20.08	20.22	20.18								
5	8QAM	25	0	20.27	20.31	20.23	20	1.3						
5	256QAM	1	0	19.62	19.67	19.59								
5	256QAM	1	12	19.57	19.63	19.58								
5	256QAM	1	24	19.60	19.57	19.50								
5	256QAM	12	0	19.54	19.57	19.50	20	1.3						
5	256QAM	12	7	19.41	19.49	19.52								
5	256QAM	12	13	19.39	19.46	19.41	20	1.3						
5	256QAM	25	0	19.45	19.50	19.48								
5	256QAM	25	7	19.40	19.48	19.44								
5	256QAM	25	13	19.37	19.46	19.42								
Channel														
Frequency (MHz)														
3	QPSK	1	0	20.28	20.40	20.47	21.3	0						
3	QPSK	1	12	20.33	20.31	20.36								
3	QPSK	1	24	20.39	20.39	20.41								
3	QPSK	14	0	20.30	20.33	20.30								
3	QPSK	8	0	20.37	20.39	20.28	21.3	0						
3	QPSK	8	7	20.22	20.35	20.16								
3	QPSK	16	0	20.35	20.42	20.28								
3	16QAM	1	0	20.28	20.50	20.42								
3	16QAM	1	8	20.30	20.27	20.35	21.3	0						
3	16QAM	1	14	20.29	20.33	20.28								
3	16QAM	8	4	20.21	20.31	20.15								
3	16QAM	8	7	20.17	20.20	20.15								
3	16QAM	8	14	20.26	20.27	20.21	21.3	0						
3	16QAM	8	20	20.27	20.31	20.37								
3	16QAM	8	26	20.19	20.36	20.24								
3	16QAM	8	32	20.14	20.19	20.14								
3	16QAM	16	0	20.36	20.39	20.22	21.3	0						
3	16QAM	16	8	20.28	20.37	20.22								
3	16QAM	16	14	20.08	20.40	20.17								
3	16QAM	16	20	20.09	20.40	20.17								
3	16QAM	16	26	20.08	20.40	20.17	20	1.3						
3	256QAM	1	0	19.63	19.67	19.59								
3	256QAM	1	8	19.58	19.62	19.57								
3	256QAM	1	14	19.60	19.62	19.57								
3	256QAM	8	0	19.43	19.50	19.48	20	1.3						
3	256QAM	8	7	19.40	19.44	19.44								
3	256QAM	8	14	19.37	19.44	19.40	20	1.3						
3	256QAM	8	20	19.40	19.48	19.44								
3	256QAM	8	26	19.37	19.46	19.42								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	20.32	20.53	20.46					21.3	0		
1.4	QPSK	1	32	20.36	20.36	20.38								
1.4	QPSK	1	64	20.33	20.44	20.56								
1.4	QPSK	1	96	20.35	20.46	20.57								
1.4	QPSK	3	0	20.32	20.46	20.37	21.3	0						
1.4	QPSK	3	32	20.19	20.29	20.18								
1.4	QPSK	3	64	20.27	20.37	20.27								
1.4	QPSK	3	96	20.37	20.47	20.37								
1.4	16QAM	1	0	20.28	20.40	20.47	21.3	0						
1.4	16QAM	1	32	20.35	20.30	20.34								
1.4	16QAM	1	64	20.33	20.43	20.53								
1.4	16QAM	3	0	20.24	20.35	20.25								
1.4	16QAM	3	1	20.20	20.34	20.11	21.3	0						
1.4	16QAM	3	32	20.18	20.28	20.13								
1.4	16QAM	3	64	20.25	20.38	20.20								
1.4	16QAM	3	96	20.30	20.49	20.40								
1.4	16QAM	1	0	20.20	20.49	20.40	21.3	0						
1.4	16QAM	1	32	20.27	20.39	20.23								
1.4	16QAM	1	64	20.28	20.48	19.56								
1.4	16QAM	3	0	20.15	20.17	20.18								
1.4	16QAM	3	1	20.19	20.23	20.11	21.3	0						
1.4	16QAM	3	32	20.16	20.26	20.11								
1.4	16QAM	3	64	20.25	20.38	20.23								
1.4	16QAM	3	96	20.30	20.49	20.40								
1.4	8QAM	1	0	19.59	19.61	19.54	20	1.3						
1.4	8QAM	1	32	19.61	19.61	19.56								
1.4	8QAM	1	64	19.48	19.48	19.56								
1.4	8QAM	3	0	19.45	19.53	19.44								
1.4</														

Band 30 Ant0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up time (Sec)	APR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	19.05	19.05	19.05	21.2	0				
10	QPSK	1	25	19.01	19.01	19.01						
10	QPSK	1	49	19.01	19.01	19.01						
10	QPSK	25	0	19.05	19.05	19.05	21.2	0				
10	QPSK	25	12	19.17	19.17	19.17						
10	QPSK	25	25	19.78	19.78	19.78						
10	QPSK	50	0	19.74	19.74	19.74	21.2	0				
10	16QAM	50	0	19.77	19.77	19.77						
10	16QAM	1	25	19.70	19.70	19.70						
10	16QAM	1	49	19.70	19.70	19.70	21	0.2				
10	16QAM	25	12	19.29	19.29	19.29						
10	16QAM	25	25	19.26	19.26	19.26						
10	16QAM	50	0	19.30	19.30	19.30	21	0.2				
10	64QAM	1	0	19.26	19.26	19.26						
10	64QAM	1	25	19.26	19.26	19.26						
10	64QAM	1	49	19.16	19.16	19.16	20	1.2				
10	64QAM	25	12	19.30	19.30	19.30						
10	64QAM	25	25	19.31	19.31	19.31						
10	64QAM	25	25	19.29	19.29	19.29	18	3.2				
10	256QAM	1	0	19.29	19.29	19.29						
10	256QAM	1	25	19.29	19.29	19.29						
10	256QAM	1	49	19.32	19.32	19.32	18	3.2				
10	256QAM	25	0	19.29	19.29	19.29						
10	256QAM	25	12	19.29	19.29	19.29						
10	256QAM	50	0	19.23	19.23	19.23	18	3.2				
10	256QAM	50	0	19.23	19.23	19.23						
10	256QAM	50	0	19.23	19.23	19.23						
Channel												
Frequency (MHz)												
5	QPSK	1	0	19.62	19.61	19.61	21.2	0				
5	QPSK	1	12	19.77	19.63	19.62						
5	QPSK	1	49	19.65	19.61	19.61						
5	QPSK	12	0	19.76	19.80	19.80	21.2	0				
5	QPSK	12	7	19.68	19.70	19.72						
5	QPSK	12	13	19.66	19.66	19.73						
5	QPSK	25	0	19.68	19.68	19.68	21.2	0				
5	16QAM	1	0	19.73	19.70	19.68						
5	16QAM	1	12	19.64	19.66	19.61						
5	16QAM	1	24	19.64	19.61	19.61	21	0.2				
5	16QAM	12	0	19.23	19.31	19.25						
5	16QAM	12	7	19.19	19.21	19.14						
5	16QAM	1	0	19.19	19.21	19.14	21	0.2				
5	64QAM	1	0	19.19	19.19	19.16						
5	64QAM	1	24	19.20	19.13	19.11						
5	64QAM	12	0	19.31	19.36	19.30	20	1.2				
5	64QAM	12	7	19.33	19.33	19.16						
5	64QAM	12	13	19.32	19.33	19.28						
5	64QAM	25	0	19.20	19.30	19.25	18	3.2				
5	256QAM	1	0	19.20	19.28	19.18						
5	256QAM	1	12	19.15	19.21	19.15						
5	256QAM	1	24	19.24	19.27	19.18	18	3.2				
5	256QAM	12	0	19.20	19.26	19.17						
5	256QAM	12	7	19.17	19.19	19.10						
5	256QAM	12	13	19.08	19.15	19.10	18	3.2				
5	256QAM	25	0	19.08	19.17	19.08						
5	256QAM	25	0	19.08	19.17	19.08						

Band 66 Ant0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	19.55	19.56	19.52	20.5	0				
20	QPSK	1	49	19.48	19.48	19.43						
20	QPSK	1	99	19.50	19.51	19.49						
20	QPSK	50	0	19.39	19.51	19.42	20.5	0				
20	QPSK	50	24	19.37	19.46	19.38						
20	QPSK	50	50	19.30	19.38	19.30						
20	QPSK	100	0	19.37	19.46	19.38	20.5	0				
20	16QAM	1	0	19.48	19.44	19.40						
20	16QAM	1	49	19.42	19.44	19.31						
20	16QAM	1	99	19.45	19.38	19.45	20.5	0				
20	16QAM	50	0	19.34	19.44	19.34						
20	16QAM	50	24	19.30	19.30	19.31						
20	16QAM	50	50	19.22	19.30	19.16	20.5	0				
20	16QAM	100	0	19.34	19.32	19.34						
20	64QAM	1	0	19.41	19.40	19.40						
20	64QAM	1	49	19.40	19.38	19.38	20	0.5				
20	64QAM	1	99	19.46	19.47	19.40						
20	64QAM	50	0	19.27	19.35	19.25						
20	64QAM	50	24	19.27	19.35	19.25	20	0.5				
20	64QAM	50	50	19.25	19.28	19.20						
20	64QAM	100	0	19.27	19.35	19.25						
Channel												
Frequency (MHz)												
15	QPSK	1	0	19.52	19.49	19.42	20.5	0				
15	QPSK	1	37	19.41	19.41	19.40						
15	QPSK	1	74	19.41	19.43	19.37						
15	QPSK	36	0	19.33	19.47	19.35	20.5	0				
15	QPSK	36	18	19.25	19.25	19.28						
15	QPSK	36	39	19.17	19.34	19.24						
15	QPSK	75	0	19.27	19.32	19.28	20.5	0				
15	16QAM	1	0	19.45	19.36	19.27						
15	16QAM	1	37	19.36	19.32	19.29						
15	16QAM	1	74	19.41	19.36	19.31	20.5	0				
15	16QAM	36	0	19.25	19.38	19.28						
15	16QAM	36	20	19.25	19.31	19.28						
15	16QAM	36	39	19.26	19.40	19.30	20.5	0				
15	16QAM	75	0	19.23	19.40	19.23						
15	64QAM	1	0	19.41	19.45	19.33						
15	64QAM	1	37	19.24	19.32	19.31	20.5	0				
15	64QAM	1	74	19.40	19.31	19.35						
15	64QAM	36	0	19.20	19.38	19.24						
15	64QAM	36	20	19.26	19.36	19.24	20.5	0				
15	64QAM	36	39	19.16	19.20	19.12						
15	64QAM	36	39	19.16	19.21	19.23						
15	64QAM	75	0	19.16	19.21	19.23	20	0.5				
15	256QAM	1	0	19.29	19.29	19.29						
15	256QAM	1	37	19.42	19.44	19.31						
15	256QAM	1	74	19.42	19.44	19.31	20	0.5				
15	256QAM	36	0	19.15	19.31	19.18						
15	256QAM	36	20	19.15	19.31	19.18						
15	256QAM	36	39	19.20	19.24	19.19	20	0.5				
15	256QAM	75	0	19.12	19.22	19.13						
15	256QAM	75	0	19.12	19.22	19.13						
Channel												
Frequency (MHz)												
10	QPSK	1	0	19.44	19.44	19.44	20.5	0				
10	QPSK	1	25	19.42	19.40	19.38						
10	QPSK	1	49	19.48	19.45	19.47						
10	QPSK	1	74	19.41	19.42	19.40	20.5	0				
10	QPSK	1	99	19.45	19.45	19.48						
10	QPSK	20	12	19.26	19.36	19.23						
10	QPSK	20	25	19.22	19.30	19.20	20.5	0				
10	QPSK	20	38	19.20	19.43	19.19						
10	QPSK	20	50	19.18	19.22	19.13						
10	16QAM	1	0	19.39	19.35	19.33	20.5	0				
10	16QAM	1	26	19.29	19.35	19.23						
10	16QAM	1	49	19.35	19.40	19.35						
10	16QAM	20	0	19.32	19.40	19.32	20.5	0				
10	16QAM	20	12	19.26	19.32	19.27						
10	16QAM	20	25	19.18	19.22	19.13						
10	16QAM	20	38	19.25	19.38	19.19	20.5	0				
10	16QAM	20	50	19.23	19.36	19.18						
10	16QAM	20	50	19.23	19.36	19.18						
10	16QAM	25	12	19.27	19.34	19.17	20.5	0				
10	16QAM	25	25	19.23	19.18	19.11						
10	16QAM	25	38	19.22	19.28	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14						
10	16QAM	25	50	19.14	19.27	19.14	20.5	0				
10	16QAM	25	50	19.14	19.27	19.1						



Band 38 Ant0 DSI 3												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Peak Ch / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)				37465	38050	38150						
20	QPSK	1	0	20.76	20.92	20.74	22	0				
20	QPSK	1	48	20.73	20.83	20.68						
20	QPSK	50	0	20.75	20.79	20.76	21	1				
20	QPSK	50	0	19.91	19.94	19.92						
20	QPSK	50	24	18.80	18.85	18.70	21	1				
20	HQAM	1	0	18.76	18.77	18.73						
20	HQAM	1	48	18.75	18.75	18.68	21	1				
20	HQAM	1	96	18.82	18.71	18.58						
20	HQAM	50	0	18.92	18.82	18.84	20	2				
20	HQAM	50	24	18.75	18.62	18.56						
20	HQAM	50	50	18.73	18.62	18.65	20	2				
20	HQAM	100	0	18.76	18.52	18.72						
20	BAGAM	1	0	18.77	18.75	18.63	20	2				
20	BAGAM	1	48	18.68	18.66	18.61						
20	BAGAM	50	0	17.84	17.82	17.83	19	3				
20	BAGAM	50	24	17.73	17.66	17.74						
20	BAGAM	50	50	17.71	17.64	17.73	19	3				
20	BAGAM	100	0	17.71	17.62	17.76						
20	25QAM	1	0	15.92	15.93	15.91	17	5				
20	25QAM	1	48	15.75	15.88	15.76						
20	25QAM	1	96	15.87	15.91	15.76	17	5				
20	25QAM	50	0	15.78	15.87	15.73						
20	25QAM	50	24	15.79	15.87	15.74	17	5				
20	25QAM	50	50	15.71	15.78	15.71						
20	25QAM	100	0	15.76	15.73	15.74	15	0				
Channel												
Frequency (MHz)				37455	38050	38150				Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	20.73	20.85	20.74	22	0				
15	QPSK	1	37	20.68	20.72	20.59						
15	QPSK	1	74	20.72	20.75	20.62	21	1				
15	QPSK	36	0	19.82	19.83	19.70						
15	QPSK	36	20	19.67	19.81	19.58	21	1				
15	QPSK	75	0	19.81	19.80	19.70						
15	QPSK	75	0	19.67	19.77	19.67	21	1				
15	HQAM	1	0	19.58	19.71	19.68						
15	HQAM	1	37	19.56	19.63	19.60	20	2				
15	HQAM	1	74	19.52	19.60	19.48						
15	HQAM	36	0	18.85	18.79	18.82	20	2				
15	HQAM	36	20	18.87	18.80	18.70						
15	HQAM	36	36	18.81	18.87	18.75	15	0				
15	HQAM	75	0	18.70	18.74	18.73						
15	HQAM	75	0	18.89	18.70	18.73	15	0				
15	BAGAM	1	37	18.86	18.84	18.82						
15	BAGAM	1	74	18.93	18.75	18.72	19	3				
15	BAGAM	36	0	17.75	17.84	17.85						
15	BAGAM	36	20	17.82	17.82	17.71	17	5				
15	BAGAM	36	36	17.76	17.78	17.65						
15	BAGAM	75	0	17.66	17.75	17.67	17	5				
15	25QAM	1	0	15.79	15.88	15.82						
15	25QAM	1	37	15.85	15.86	15.81	15	0				
15	25QAM	1	74	15.84	15.85	15.85						
15	25QAM	36	0	15.79	15.77	15.67	15	0				
15	25QAM	36	20	15.81	15.84	15.71						
15	25QAM	36	36	15.84	15.86	15.65	15	0				
15	25QAM	75	0	15.75	15.80	15.62						
Channel												
Frequency (MHz)				37465	38050	38150	Tune-up limit (dBm)	MPR (dB)				
10	QPSK	1	0	20.87	20.82	20.81	22	0				
10	QPSK	1	25	20.68	20.76	20.67						
10	QPSK	1	48	20.65	20.71	20.67	21	1				
10	QPSK	25	0	19.84	19.78	19.61						
10	QPSK	25	25	19.68	19.76	19.60	21	1				
10	QPSK	50	0	19.70	19.78	19.69						
10	HQAM	1	0	19.60	19.68	19.62	21	1				
10	HQAM	1	25	19.82	19.69	19.61						
10	HQAM	1	48	19.50	19.66	19.51	20	2				
10	HQAM	25	0	18.80	18.75	18.89						
10	HQAM	25	12	18.82	18.78	18.67	20	2				
10	HQAM	25	25	18.86	18.86	18.67						
10	HQAM	25	37	18.80	18.76	18.65	20	2				
10	BAGAM	1	0	18.71	18.70	18.78						
10	BAGAM	1	25	18.65	18.60	18.50	20	2				
10	BAGAM	1	48	18.59	18.75	18.70						
10	BAGAM	25	0	17.72	17.60	17.78	19	3				
10	BAGAM	25	12	17.68	17.75	17.66						
10	BAGAM	25	25	17.59	17.75	17.60	17	5				
10	BAGAM	50	0	17.64	17.74	17.66						
10	25QAM	1	0	15.79	15.86	15.81	17	5				
10	25QAM	1	25	15.75	15.80	15.73						
10	25QAM	1	48	15.80	15.87	15.68	17	5				
10	25QAM	25	0	15.70	15.77	15.69						
10	25QAM	25	12	15.75	15.75	15.66	17	5				
10	25QAM	25	25	15.59	15.74	15.65						
10	25QAM	50	0	15.68	15.76	15.67	15	0				
Channel												
Frequency (MHz)				37475	38060	38225				Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.87	20.82	20.81	22	0				
5	QPSK	1	12	20.68	20.74	20.64						
5	QPSK	1	24	20.63	20.71	20.63	21	1				
5	QPSK	12	0	19.81	19.84	19.71						
5	QPSK	12	7	19.74	19.78	19.61	21	1				
5	QPSK	12	13	19.76	19.80	19.72						
5	QPSK	25	0	19.66	19.78	19.67	21	1				
5	HQAM	1	0	19.68	19.64	19.63						
5	HQAM	1	12	19.81	19.66	19.62	21	1				
5	HQAM	1	24	19.55	19.61	19.54						
5	HQAM	12	0	18.83	18.82	18.84	20	2				
5	HQAM	12	7	18.66	18.73	18.70						
5	HQAM	12	13	18.83	18.83	18.64	20	2				
5	HQAM	25	0	18.74	18.71	18.59						
5	HQAM	1	0	18.69	18.70	18.76	19	3				
5	HQAM	12	7	17.65	17.81	17.66						
5	BAGAM	1	24	18.63	18.76	18.69	17	5				
5	BAGAM	1	0	17.78	17.86	17.72						
5	BAGAM	12	7	17.65	17.81	17.66	17	5				
5	BAGAM	12	13	17.66	17.60	17.66						
5	BAGAM	25	0	15.76	15.74	15.71	15	0				
5	BAGAM	25	0	15.80	15.86	15.79						
5	25QAM	1	12	15.79	15.78	15.74	17	5				
5	25QAM	1	24	15.75	15.85	15.72						
5	25QAM	12	0	15.79	15.72	15.67	17	5				
5	25QAM	12	7	15.70	15.77	15.62						
5	25QAM	12	13	15.81	15.73	15.62	15	0				
5	25QAM	25	0	15.71	15.73	15.67						

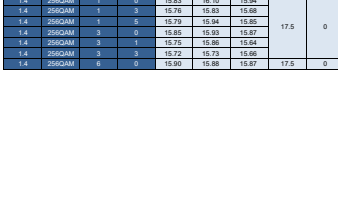
Band 41 Ant0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch [F/Freq]	Power High Ch [F/Freq]	Power Peak Ch [F/Freq]	Power Peak Ch [F/Freq]	Power Peak Ch [F/Freq]	Timeup limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	21.27	21.31	21.35	21.40	21.13	22.4	0
20	QPSK	1	48	21.28	21.33	21.37	21.35	21.33		
20	QPSK	1	96	21.29	21.38	21.45	21.42	21.30		
20	QPSK	50	0	21.30	21.31	21.45	21.42	21.30		
20	QPSK	50	24	21.60	21.20	21.37	21.37	21.30	22.4	0
20	QPSK	50	48	21.61	21.21	21.38	21.39	21.31		
20	QPSK	100	0	21.15	21.26	21.41	21.30	21.06		
20	16QAM	1	0	21.23	21.20	21.61	21.46	21.14	22.4	0
20	16QAM	1	48	21.24	21.19	21.62	21.47	21.15		
20	16QAM	1	96	21.19	21.22	21.41	21.36	21.15		
20	16QAM	50	0	21.08	21.17	21.29	21.18	21.00		
20	16QAM	50	24	21.09	21.10	21.29	21.20	21.01		
20	16QAM	50	50	21.04	21.15	21.24	21.26	21.03	22.4	0
20	16QAM	100	0	21.02	21.19	21.36	21.26	21.00		
20	16QAM	100	24	21.03	21.24	21.35	21.28	21.01		
20	16QAM	1	48	21.18	21.17	21.25	21.32	21.20	22.4	0
20	16QAM	1	96	21.19	21.16	21.26	21.33	21.20		
20	16QAM	50	0	21.17	21.20	21.63	21.39	21.14		
20	16QAM	50	24	21.22	21.15	21.24	21.21	21.26	22.4	0
20	16QAM	50	48	21.25	21.10	21.25	21.34	21.21		
20	16QAM	100	0	21.18	21.25	21.28	21.19	21.02		
20	256QAM	1	0	20.04	20.05	20.07	20.04	20.02	20.5	1.9
20	256QAM	1	48	19.99	19.99	19.97	19.99	19.91		
20	256QAM	1	96	19.90	19.96	19.99	19.96	19.94		
20	256QAM	50	0	19.90	19.96	19.99	19.96	19.95		
20	256QAM	50	24	19.93	19.91	20.00	19.94	19.90	20.5	1.9
20	256QAM	50	48	19.97	19.93	20.00	19.92	19.90		
20	256QAM	100	0	19.90	19.96	19.99	19.92	19.90		
Channel										
Frequency (MHz)				39750	40173	40620	41050	41515	Timeup limit (dBm)	MPR (dB)
15	QPSK	1	0	21.13	21.31	21.33	21.40	21.13	22.4	0
15	QPSK	1	37	21.15	21.14	21.34	21.30	21.29		
15	QPSK	1	74	21.11	21.23	21.42	21.39	21.13		
15	QPSK	38	0	21.15	21.30	21.35	21.18	21.02	22.4	0
15	QPSK	38	20	20.87	21.16	21.33	21.24	20.80		
15	QPSK	38	38	20.89	21.05	21.31	21.27	20.82		
15	QPSK	75	0	21.08	21.13	21.38	21.17	21.00		
15	16QAM	1	0	21.14	21.10	21.59	21.35	21.06	22.4	0
15	16QAM	1	37	21.09	21.15	21.60	21.36	21.07		
15	16QAM	1	74	21.16	21.12	21.33	21.25	21.06		
15	16QAM	38	0	21.06	21.07	21.25	21.15	20.91		
15	16QAM	38	38	21.09	21.00	21.21	21.19	20.91		
15	16QAM	38	38	20.95	21.04	21.10	21.15	20.87		
15	16QAM	75	0	21.08	21.13	21.29	21.18	21.01	22.4	0
15	16QAM	75	37	21.08	21.15	21.11	21.28	21.09		
15	16QAM	1	74	21.11	21.10	21.29	21.20	21.10		
15	16QAM	38	0	21.24	21.23	21.55	21.41	21.13		
15	16QAM	38	20	21.24	21.10	21.31	21.29	21.13		
15	16QAM	38	38	21.23	21.23	21.31	21.29	21.13		
15	16QAM	75	0	21.06	21.27	21.30	21.20	21.03		
15	256QAM	1	0	19.96	19.96	20.01	19.96	19.96	20.5	1.9
15	256QAM	1	37	19.96	19.95	19.99	19.95	19.87		
15	256QAM	1	74	19.86	19.94	19.94	19.95	19.88		
15	256QAM	50	0	19.90	19.90	19.92	19.92	19.86		
15	256QAM	50	20	19.90	19.92	19.92	19.92	19.86		
15	256QAM	38	38	19.90	19.90	19.92	19.83	19.85	20.5	1.9
15	256QAM	100	0	19.76	19.90	19.92	19.83	19.85		
Channel										
Frequency (MHz)				39750	40160	40620	41050	41560	Timeup limit (dBm)	MPR (dB)
15	QPSK	1	0	21.19	21.27	21.53	21.48	21.11	22	0
15	QPSK	1	48	21.21	21.11	21.28	21.30	21.13		
15	QPSK	1	96	21.19	21.17	21.39	21.36	21.13		
15	QPSK	12	0	21.15	21.26	21.35	21.35	21.14	22.4	0
15	QPSK	12	12	21.02	21.06	21.32	21.26	20.99		
15	QPSK	12	24	21.03	21.07	21.33	21.29	20.97		
15	QPSK	50	0	21.11	21.20	21.28	21.15	20.99		
15	16QAM	1	0	21.18	21.17	21.49	21.43	21.10	22.4	0
15	16QAM	1	48	21.08	21.19	21.38	21.29	21.08		
15	16QAM	25	0	20.95	21.04	21.21	21.08	20.86	22.4	0
15	16QAM	25	12	20.95	21.03	21.21	21.21	20.87		
15	16QAM	25	25	20.91	21.03	21.21	21.21	20.87		
15	16QAM	50	0	21.06	21.11	21.45	21.43	21.05	22.4	0
15	16QAM	50	24	21.16	21.11	21.45	21.43	21.05		
15	16QAM	1	25	21.04	21.12	21.21	21.25	21.08	22.4	0
15	16QAM	1	48	21.11	21.21	21.22	21.26	21.10		
15	16QAM	25	0	21.20	21.19	21.58	21.38	21.11	22.4	0
15	16QAM	25	12	21.16	21.13	21.34	21.29	21.23		
15	16QAM	25	24	21.14	21.22	21.34	21.30	21.14		
15	16QAM	50	0	21.11	21.14	21.27	21.26	21.10		
15	256QAM	1	0	20.01	19.98	20.04	19.99	19.99	20.5	1.9
15	256QAM	1	12	19.98	19.92	19.98	19.98	19.87		
15	256QAM	1	48	19.82	19.90	19.89	19.89	19.80		
15	256QAM	25	0	19.86	19.93	19.93	19.93	19.86		
15	256QAM	25	12	19.86	19.93	19.90	19.87	19.88	20.5	1.9
15	256QAM	25	25	19.82	19.88	19.98	19.86	19.81		
15	256QAM	50	0	19.76	19.92	19.92	19.83	19.85		
Channel										
Frequency (MHz)				39675	40146	40620	41050	41565	Timeup limit (dBm)	MPR (dB)
15	QPSK	1	0	21.03	21.53	21.53	21.48	21.11	22	0
15	QPSK	1	12	21.25	21.17	21.26	21.22	21.29		
15	QPSK	1	24	21.15	21.25	21.38	21.35	21.14	22.4	0
15	QPSK	12	0	21.15	21.26	21.35	21.35	21.14		
15	QPSK	12	12	21.01	21.14	21.28	21.22	21.05		
15	QPSK	25	0	21.04	21.13	21.29	21.15	20.94	22.4	0
15	QPSK	25	12	21.04	21.13	21.29	21.22	21.00		
15	16QAM	1	0	21.15	21.18	21.46	21.42	21.08	22.4	0
15	16QAM	1	12	21.25	21.15	21.29	21.26	21.20		
15	16QAM	1	24	21.16	21.13	21.33	21.29	21.11	22.4	0
15	16QAM	12	0	21.02	21.07	21.24	21.12	20.87		
15	16QAM	12	12	21.02	21.08	21.25	21.21	20.87		
15	16QAM	12	13	20.91	21.08	21.12	21.21	20.87	22.4	0
15	16QAM	25	0	21.06	21.11	21.45	21.43	21.05		
15	16QAM	25	12	21.08	21.15	21.48	21.39	21.03		
15	16QAM	1	12	21.06	21.06	21.12	21.19	21.07	22.4	0
15	16QAM	1	24	21.11	21.18	21.22	21.23	21.13		
15	16QAM	12	0	21.19	21.17	21.64	21.43	21.15	22.4	0
15	16QAM	12	12	21.21	21.18	21.26	21.22	21.29		
15	16QAM	25	0	21.14	21.16	21.48	21.33	21.14	22.4	0
15	16QAM	25	12	21.12	21.24	21.37	21.18	21.05		
15	256QAM	1	0	19.87	19.87	20.02	19.96	19.85	20.5	1.9
15	256QAM	1	12	19.81	19.82	19.98	19.87	19.86		
15	256QAM	1	24	19.80	19.91	19.90	19.87	19.88	20.5	1.9
15	256QAM	12	0	19.86	19.96	19.96	19.87	19.86		
15	256QAM	12	12	19.83	19.88	19.96	19.85	19.82	20.5	1.9
15	256QAM	12	13	19.81	19.84	19.94	19.85	19.86		
15	256QAM	25	0	19.80	19.82	19.88	19.87	19.85		



		GSM 850 Airt					GSM 850 Airt		
		Base Average Power (dBm)			Tx Channel		Tx Channel		
		198	198	201	198		198	198	201
		dBm			dBm		dBm		
Frequency (MHz)		824.2	834.4	844.8	824.2		834.4	844.8	854.0
GSM 1 Tx Ant	20.76	20.76	20.76	20.76	21.16	21.16	21.16	21.16	21.70
GPRS 1 Tx Ant	20.23	20.13	20.12	20.70	21.23	21.70	21.70	21.70	21.70
GPRS 2 Tx Ant	20.78	20.85	20.71	27.70	20.78	20.80	20.71	21.70	21.70
GPRS 3 Tx Ant	20.74	24.01	24.80	26.00	20.48	20.80	20.80	21.74	21.74
GPRS 4 Tx Ant	23.81	23.84	23.39	24.70	20.81	20.84	20.39	21.70	21.70
EDGE 1 Tx Ant	23.00	23.00	23.04	26.00	19.00	19.00	19.04	17.00	17.00
EDGE 2 Tx Ant	23.77	23.87	23.83	26.00	17.77	17.87	17.83	19.00	19.00
EDGE 3 Tx Ant	22.70	22.70	22.80	23.00	16.44	16.44	16.50	18.24	18.24
EDGE 4 Tx Ant	23.37	20.00	20.02	21.00	17.37	17.00	17.02	18.50	18.50

		GSM 1900 Airt					GSM 1900 Airt		
		Base Average Power (dBm)			Tx Channel		Tx Channel		
		157.2	158.0	159.0	157.2		158.0	159.0	159.0
		dBm			dBm		dBm		
Frequency (MHz)		1852.2	1850	1850.8	1852.2		1850	1850.8	1850.8
GSM 1 Tx Ant	25.02	25.04	25.10	27.00	16.22	16.04	16.10	18.00	18.00
GPRS 1 Tx Ant	25.34	25.34	25.14	27.00	16.34	16.14	16.14	18.00	18.00
GPRS 2 Tx Ant	22.80	22.85	22.42	24.00	16.80	16.85	16.42	18.00	18.00
GPRS 3 Tx Ant	21.01	21.00	20.80	22.00	16.70	16.70	16.60	18.04	18.04
GPRS 4 Tx Ant	18.24	18.29	18.10	21.00	16.24	16.29	16.10	18.00	18.00
EDGE 1 Tx Ant	22.60	24.04	24.07	26.00	15.60	15.04	15.07	18.00	18.00
EDGE 2 Tx Ant	22.88	22.65	22.77	24.00	16.88	16.65	16.77	18.00	18.00
EDGE 3 Tx Ant	23.04	21.80	21.57	22.00	17.38	17.45	17.31	18.04	18.04
EDGE 4 Tx Ant	19.47	19.53	19.42	20.00	16.47	16.53	16.42	17.50	17.50

		WCDMA 8 Airt			WCDMA 8 Airt			WCDMA 8 Airt		
		Base Average Power (dBm)			Base Average Power (dBm)			Base Average Power (dBm)		
		9262	9600	8038	9262			9262		
		dBm			dBm			dBm		
Frequency (MHz)		1852.4	1850	1850.8	1712.4		1712.6	1712.6		1712.6
ISPP Rel 8	AMR 12.2kbit/s	14.70	14.88	14.77	16.30	15.70	15.20	16.80	16.40	21.04
ISPP Rel 8	AMR 12.2kbit/s	14.82	15.13	14.77	16.30	15.80	15.00	16.80	16.80	21.11
ISPP Rel 8	TRFPA Subnet-1	13.82	13.86	13.84	15.30	15.50	14.93	14.91	16.80	19.99
ISPP Rel 8	TRFPA Subnet-2	13.72	13.82	13.82	15.30	14.70	14.82	14.80	15.70	20.02
ISPP Rel 8	TRFPA Subnet-3	13.39	13.45	13.87	14.80	14.37	14.08	14.87	15.30	19.46
ISPP Rel 8	TRFPA Subnet-4	13.82	13.81	13.13	14.80	14.53	14.84	14.40	15.30	19.43
ISPP Rel 8	DO-HSPA Subnet-1	14.13	14.24	13.88	15.30	15.32	14.94	14.94	15.80	20.26
ISPP Rel 8	DO-HSPA Subnet-2	14.24	13.84	14.09	15.30	14.40	14.09	14.26	15.80	20.26
ISPP Rel 8	DO-HSPA Subnet-3	13.04	13.64	13.70	14.80	14.40	14.73	14.80	15.30	19.62
ISPP Rel 8	DO-HSPA Subnet-4	13.37	13.03	13.04	14.80	14.40	14.70	14.80	15.30	19.61
ISPP Rel 8	HSPA Subnet-1	14.15	13.80	13.82	15.30	14.34	14.82	14.80	15.80	20.11
ISPP Rel 8	HSPA Subnet-2	13.84	13.72	13.78	13.80	13.16	12.86	12.83	13.80	18.05
ISPP Rel 8	HSPA Subnet-3	13.83	13.12	13.70	14.80	13.97	14.07	13.99	14.80	19.01
ISPP Rel 8	HSPA Subnet-4	13.70	13.89	12.14	13.30	12.87	13.01	13.22	13.80	17.70
ISPP Rel 8	HSPA Subnet-5	14.01	14.15	14.04	15.30	15.10	15.01	15.08	15.80	20.06



1-4	2500AM	1	3	15.12	15.16	15.16	16.7	0
1-4	2500AM	1	6	15.26	15.18	15.12		
1-4	2500AM	3	0	15.26	15.42	18.39		
1-4	2500AM	3	1	15.15	15.25	15.19		
1-4	2500AM	3	3	15.11	15.26	15.11		
1-4	2500AM	6	0	15.21	15.19	15.21	16.7	0



Band 12 Ant1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Modulo Ch./F.Freq.	Power Modulo Ch./F.Freq.	Power Modulo Ch./F.Freq.	Turn-up Int. (dB)	MPR (dB)				
Channel												
Frequency [MHz]												
10	QPSK	1	0	21.66	21.75	21.80			22.8	0		
10	QPSK	1	25	21.49	21.53	21.44						
10	QPSK	1	49	21.42	21.42	21.52						
10	QPSK	25	0	21.58	21.59	21.54			22.8	0		
10	QPSK	25	12	21.34	21.33	21.44						
10	QPSK	25	25	21.46	21.43	21.46						
10	QPSK	50	0	21.56	21.59	21.49			22.8	0		
10	16QAM	1	0	21.67	21.69	21.48						
10	16QAM	1	25	21.34	21.33	21.36						
10	16QAM	1	49	21.41	21.40	21.36			22.8	0		
10	16QAM	25	0	21.62	21.71	21.47						
10	16QAM	25	12	21.41	21.41	21.36						
10	16QAM	25	25	21.32	21.50	21.44			22.8	0		
10	16QAM	50	0	21.45	21.47	21.45						
10	64QAM	1	0	21.62	21.60	21.55			22.8	0		
10	64QAM	1	25	21.36	21.51	21.57						
10	64QAM	1	49	21.32	21.45	21.48						
10	64QAM	25	0	20.92	20.93	20.87			22	0.8		
10	64QAM	25	12	20.88	21.01	20.80						
10	64QAM	25	25	20.83	20.81	20.84						
10	256QAM	1	25	18.94	18.94	18.94			20	2.8		
10	256QAM	1	49	18.90	18.90	18.87						
10	256QAM	25	0	18.95	18.89	18.90						
10	256QAM	25	12	18.76	18.82	18.88			20	2.8		
10	256QAM	25	25	18.80	18.80	18.90						
10	256QAM	50	0	19.95	19.90	19.83						
Turn-up (dB)												
MPR (dB)												
Frequency [MHz]												
5	QPSK	1	0	21.55	21.71	21.80			22.8	0		
5	QPSK	1	12	21.40	21.46	21.37						
5	QPSK	1	24	21.38	21.40	21.40						
5	QPSK	12	0	21.52	21.55	21.43			22.8	0		
5	QPSK	12	7	21.22	21.41	21.31						
5	QPSK	12	13	21.40	21.30	21.41						
5	QPSK	25	0	21.46	21.48	21.31			22.8	0		
5	16QAM	1	0	21.50	21.49	21.42						
5	16QAM	1	12	21.24	21.24	21.31						
5	16QAM	12	0	21.49	21.67	21.44			22.8	0		
5	16QAM	12	7	21.32	21.29	21.33						
5	16QAM	12	13	21.26	21.40	21.36						
5	16QAM	25	0	21.33	21.41	21.32			22.8	0		
5	64QAM	1	0	21.48	21.55	21.51						
5	64QAM	1	24	21.34	21.39	21.32						
5	64QAM	12	0	20.85	20.70	20.76			22	0.8		
5	64QAM	12	13	20.83	20.90	20.63						
5	64QAM	25	0	20.56	20.68	20.78						
5	64QAM	25	12	20.72	20.79	20.76			20	2.8		
5	256QAM	1	0	18.97	18.80	18.83						
5	256QAM	1	12	18.86	18.80	18.79						
5	256QAM	1	24	18.75	18.62	18.58			20	2.8		
5	256QAM	12	0	18.69	18.86	18.85						
5	256QAM	12	7	18.53	18.70	18.84						
5	256QAM	12	13	18.58	18.76	18.71			Turn-up (dB)	MPR (dB)		
5	256QAM	25	0	18.68	18.75	18.66						
Channel												
Frequency [MHz]												
3	QPSK	1	0	21.54	21.69	21.47			22.8	0		
3	QPSK	1	8	21.39	21.47	21.32						
3	QPSK	1	14	21.29	21.50	21.39						
3	QPSK	8	0	21.48	21.54	21.46			22.8	0		
3	QPSK	8	7	21.24	21.47	21.30						
3	QPSK	8	7	21.35	21.36	21.33						
3	QPSK	16	0	21.62	21.62	21.40			22.8	0		
3	16QAM	1	0	21.48	21.47	21.43						
3	16QAM	1	8	21.25	21.20	21.29						
3	16QAM	1	8	21.36	21.31	21.31			22.8	0		
3	16QAM	8	0	21.58	21.67	21.42						
3	16QAM	8	4	21.37	21.36	21.29						
3	16QAM	8	7	21.24	21.48	21.36			22.8	0		
3	16QAM	15	0	21.32	21.42	21.34						
3	64QAM	1	0	21.48	21.58	21.51						
3	64QAM	1	8	21.30	21.48	21.34			22.8	0		
3	64QAM	1	14	21.25	21.33	21.34						
3	64QAM	8	0	20.70	20.67	20.67						
3	64QAM	8	4	20.46	20.80	20.76			22	0.8		
3	64QAM	8	7	20.67	20.62	20.80						
3	64QAM	15	0	20.87	20.59	20.59						
3	256QAM	1	0	18.65	18.62	18.67			20	2.8		
3	256QAM	1	8	18.74	18.70	18.61						
3	256QAM	1	14	18.74	18.62	18.76						
3	256QAM	8	0	18.68	18.65	18.67			20	2.8		
3	256QAM	8	4	18.49	18.78	18.73						
3	256QAM	8	7	18.54	18.68	18.79						
3	256QAM	15	0	18.78	18.75	18.75			Turn-up (dB)	MPR (dB)		
Channel												
Frequency [MHz]												
1.4	QPSK	1	0	21.53	21.69	21.47			22.8	0		
1.4	QPSK	1	3	21.46	21.47	21.41						
1.4	QPSK	1	5	21.31	21.46	21.40						
1.4	QPSK	3	0	21.46	21.55	21.46			22.8	0		
1.4	QPSK	3	1	21.26	21.49	21.38						
1.4	QPSK	3	3	21.40	21.36	21.32						
1.4	QPSK	6	0	21.52	21.60	21.40			22.8	0		
1.4	16QAM	1	0	21.51	21.51	21.45						
1.4	16QAM	1	3	21.25	21.21	21.30						
1.4	16QAM	1	5	21.34	21.37	21.30			22.8	0		
1.4	16QAM	3	0	21.59	21.67	21.41						
1.4	16QAM	3	1	21.31	21.30	21.29						
1.4	16QAM	3	3	21.26	21.48	21.36			22.8	0		
1.4	16QAM	6	0	21.40	21.43	21.37						
1.4	64QAM	1	0	21.52	21.51	21.48						
1.4	64QAM	1	3	21.25	21.47	21.31			22.8	0		
1.4	64QAM	1	5	21.27	21.38	21.33						
1.4	64QAM	3	0	21.71	21.47	21.48						
1.4	64QAM	3	3	21.47	21.71	21.47			22	0.8		
1.4	64QAM	6	0	20.88	20.59	20.77						
1.4	256QAM	1	0	18.63	18.64	18.77						
1.4	256QAM	1	3	18.73	18.70	18.78			20	2.8		
1.4	256QAM	1	5	18.64	18.74	18.78						
1.4	256QAM	3	0	18.72	18.86	18.88						
1.4	256QAM	3	1	18.64	18.69	18.62			20	2.8		
1.4	256QAM	3	3	18.69	18.73	18.74						
1.4	256QAM	6	0	18.91	18.65	18.70						

Band 13 Ant1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Modulo Ch./F.Freq.	Power High Ch./F.Freq.	Turn-up Int. (dB)	MPR (dB)		
Channel										
Frequency [MHz]										
10	QPSK	1	0		20.61				21.5	0
10	QPSK	1	25		20.59					
10	QPSK	1	49		20.39					
10	QPSK	25	0		20.43				21.5	0
10	QPSK	25	12		20.33					
10	QPSK	25	25		20.35					
10	QPSK	50	0		20.44				21.5	0
10	16QAM	1	0		20.60					
10	16QAM	1	25		20.38					
10	16QAM	1	49		20.33				21.5	0
10	16QAM	25	0		20.55					
10	16QAM	25	12		20.25					
10	16QAM	25	25		20.27				21.5	0
10	16QAM	50	0		20.35					
10	16QAM	50	12		20.50					
10	16QAM	1	25		20.27				21.5	0
10	16QAM	1	49		20.37					
10	16QAM	1	73		20.25					
10	16QAM	25	12		20.20				21.5	0
10	16QAM	25	25		20.28					
10	16QAM	25	49		20.41					
10	256QAM	1	0		18.20				20	1.5
10	256QAM	1	25		18.08					
10	256QAM	1	49		18.07					
10	256QAM	1	73		18.34				20	1.5
10	256QAM	25	12		18.28					
10	256QAM	25	25		19.18					
10	256QAM	50	0		19.43				20	1.5
10	256QAM	50	12		19.28					
10	256QAM	50	25		19.45					
Channel										
Frequency [MHz]										
5	QPSK	1	0	20.49	20.47	20.44			21.5	0
5	QPSK	1	12	20.29	20.27	20.26				
5	QPSK	1	24	20.32	20.27	20.27				
5	QPSK	12	0	20.38	20.40	20.31			21.5	0
5	QPSK	12	7	20.23	20.23	20.27				
5	QPSK	12	14	20.23	20.23	20.28				
5	QPSK	25	0	20.39	20.31	20.33			21.5	0
5	16QAM	1	6	20.39	20.43	20.39				
5	16QAM	1	12	20.28	20.30	20.26				
5	16QAM	1	18	20.24	20.22	20.28			21.5	0
5	16QAM	12	0	20.27	20.28	20.22				
5	16QAM	12	6	20.27	20.28	20.22				
5	16QAM	12	12	20.28	20.21	20.24			21.5	0
5	16QAM	25	0	20.21	20.22	20.26				
5	16QAM	25	6	20.44	20.43	20.44				
5	16QAM	1	12	20.17	20.21	20.15			21.5	0
5	16QAM	1	24	20.23	20.27	20.23				
5	16QAM	1	36	20.23	20.27	20.32				
5	16QAM	12	0	20.12	20.07	20.10			21.5	0
5	16QAM	12	18	20.23	20.24	20.27				
5	16QAM	25	0	20.27	20.33	20.38				
5	256QAM	1	18	18.09	18.04	18.05			20	1.5
5	256QAM	1	36	18.00	18.09	18.00				
5	256QAM	1	54	18.09	18.09	18.00				
5	256QAM	12	0	19.14	19.18	19.18			20	1.5
5	256QAM	12	7	19.19	19.12	19.15				
5	256QAM	12	13	19.10	18.99	18.98				
5	256QAM	25	0	19.36	19.36	19.33			20	1.5
5	256QAM	25	7	19.19	19.12	19.15				
5	256QAM	25	13	19.10	18.99	18.98				



Band 25 Ant1														
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up Int. (dB)	MPN (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	16.12	16.30	16.11	17.5	0						
20	QPSK	1	49	16.01	16.02	15.99								
20	QPSK	1	99	16.35	16.16	16.11								
20	QPSK	50	0	16.15	16.16	16.09								
20	QPSK	50	24	16.02	16.12	15.97	17.5	0						
20	QPSK	50	50	15.97	15.99	15.88								
20	16QAM	100	0	16.14	16.15	16.04								
20	16QAM	1	0	16.06	16.33	16.03								
20	16QAM	1	49	15.89	15.90	15.87	17.5	0						
20	16QAM	1	99	15.88	16.04	16.00								
20	16QAM	50	0	16.02	16.09	16.01								
20	16QAM	50	24	15.96	15.99	15.92								
20	16QAM	50	50	15.94	15.96	15.76	17.5	0						
20	16QAM	100	0	16.06	16.13	15.97								
20	8QAM	1	0	15.99	16.36	16.05								
20	8QAM	1	49	15.92	16.09	16.03								
20	8QAM	50	0	16.06	16.14	16.00	17.5	0						
20	8QAM	50	24	15.96	15.99	15.92								
20	8QAM	50	50	15.90	16.02	15.83								
20	256QAM	50	50	15.93	15.97	15.81								
Channel				26115	26140	26161	Turn-up Int. (dB)	MPN (dB)						
Frequency (MHz)														
15	QPSK	1	0	16.02	16.29	16.09	17.5	0						
15	QPSK	1	37	15.92	15.93	15.86								
15	QPSK	1	74	15.86	16.03	16.02								
15	QPSK	36	0	16.07	16.09	15.99								
15	QPSK	36	20	15.93	16.07	16.02	17.5	0						
15	QPSK	36	36	15.91	15.94	15.76								
15	QPSK	75	0	16.09	16.06	15.98								
15	16QAM	1	0	16.04	16.23	15.99								
15	16QAM	1	37	15.76	15.77	15.62	17.5	0						
15	16QAM	1	74	15.96	16.06	16.05								
15	16QAM	36	0	15.96	15.96	15.96								
15	16QAM	36	20	15.81	15.91	15.86								
15	16QAM	36	36	15.76	15.86	15.79	17.5	0						
15	16QAM	75	0	15.98	16.10	15.85								
15	8QAM	1	0	15.87	16.25	15.90								
15	8QAM	1	37	15.75	15.86	15.79								
15	8QAM	1	74	15.79	15.97	15.90	17.5	0						
15	8QAM	36	0	15.99	16.01	15.87								
15	8QAM	36	20	15.80	15.91	15.86								
15	8QAM	36	36	15.87	15.92	15.71								
15	8QAM	75	0	15.97	16.03	15.91	17.5	0						
15	256QAM	1	0	15.94	16.24	15.91								
15	256QAM	1	37	15.85	15.85	15.80								
15	256QAM	1	74	15.88	16.00	15.95								
15	256QAM	36	0	16.00	16.06	16.04	17.5	0						
15	256QAM	36	20	15.78	15.97	15.79								
15	256QAM	36	36	15.87	15.86	15.70								
15	256QAM	75	0	16.01	16.07	15.88								
Channel														
Frequency (MHz)														
10	QPSK	1	0	16.06	16.26	16.06	17.5	0						
10	QPSK	1	25	15.96	15.89	15.90								
10	QPSK	1	49	15.88	16.10	16.05								
10	QPSK	25	0	16.03	16.04	15.96								
10	QPSK	25	12	15.88	16.01	15.92	17.5	0						
10	QPSK	25	25	15.89	15.96	15.84								
10	QPSK	80	0	16.00	16.09	16.00								
10	16QAM	1	0	15.97	16.23	15.98								
10	16QAM	1	25	15.84	15.86	15.73	17.5	0						
10	16QAM	1	49	15.76	15.94	15.96								
10	16QAM	25	0	16.02	15.99	15.91								
10	16QAM	25	12	15.85	15.87	15.80								
10	16QAM	25	25	15.76	15.81	15.71	17.5	0						
10	16QAM	80	0	15.97	16.09	15.92								
10	8QAM	1	0	15.87	16.26	15.91								
10	8QAM	1	25	15.81	15.87	15.84								
10	8QAM	1	49	15.90	16.04	15.89	17.5	0						
10	8QAM	25	0	15.96	16.10	15.92								
10	8QAM	25	12	15.81	15.92	15.81								
10	8QAM	25	25	15.82	15.82	15.62								
10	8QAM	50	0	15.98	16.03	15.96	17.5	0						
10	256QAM	1	0	15.88	16.22	15.85								
10	256QAM	1	25	15.82	15.90	15.89								
10	256QAM	1	49	15.87	15.92	15.86								
10	256QAM	25	0	15.93	16.00	15.95	17.5	0						
10	256QAM	25	12	15.83	15.90	15.85								
10	256QAM	25	25	15.83	15.88	15.75								
10	256QAM	50	0	16.01	16.02	15.93								
Channel														
Frequency (MHz)														
5	QPSK	1	0	16.06	16.33	16.02	17.5	0						
5	QPSK	1	12	15.88	15.96	15.91								
5	QPSK	1	24	15.83	16.07	16.06								
5	QPSK	12	0	16.08	16.10	16.00								
5	QPSK	12	7	15.98	16.07	15.87	17.5	0						
5	QPSK	12	13	15.93	15.86	15.77								
5	QPSK	25	0	16.01	16.03	15.98								
5	16QAM	1	0	15.99	16.20	15.93								
5	16QAM	1	12	15.78	15.86	15.82	17.5	0						
5	16QAM	1	24	15.85	15.93	15.93								
5	16QAM	12	0	15.99	15.93	15.88								
5	16QAM	12	7	15.77	15.95	15.90								
5	16QAM	12	13	15.82	15.86	15.74	17.5	0						
5	16QAM	25	0	16.00	16.06	15.88								
5	8QAM	1	0	15.91	16.12	15.90								
5	8QAM	1	12	15.76	15.88	15.80								
5	8QAM	1	24	15.85	16.03	15.97	17.5	0						
5	8QAM	12	0	15.96	16.03	15.86								
5	8QAM	12	7	15.85	15.97	15.87								
5	8QAM	12	13	15.89	15.85	15.64								
5	8QAM	25	0	16.02	16.10	15.96	17.5	0						
5	256QAM	1	0	15.91	16.16	15.99								

Band 30 Ant1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-up limit (sec)	APR (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	17.16	23.10		18.5	0			
10	QPSK	1	26	17.19	17.38						
10	QPSK	1	49	17.13	17.07						
10	QPSK	25	0	17.24			18.5	0			
10	QPSK	25	12	17.16							
10	QPSK	25	25	17.10							
10	QPSK	50	0	17.16			18.5	0			
10	16QAM	1	0	17.28							
10	16QAM	1	26	17.07							
10	16QAM	1	49	17.09			18.5	0			
10	16QAM	25	0	17.10							
10	16QAM	25	12	17.11							
10	16QAM	25	25	16.99			18.5	0			
10	16QAM	50	0	17.04							
10	64QAM	1	0	17.32							
10	64QAM	1	26	17.07			18.5	0			
10	64QAM	1	49	17.06							
10	64QAM	25	12	17.04							
10	64QAM	25	25	17.07			18.5	0			
10	256QAM	1	0	17.07							
10	256QAM	1	0	16.92							
10	256QAM	1	26	16.16			18	0.5			
10	256QAM	1	49	16.22							
10	256QAM	25	12	16.21							
10	256QAM	25	25	16.18			18	0.5			
10	256QAM	50	0	16.10							
10	256QAM	50	0	16.30							
Channel											
Frequency (MHz)											
5	QPSK	1	0	17.28	17.25	17.21	18.5	0			
5	QPSK	1	12	17.15	17.16	17.08					
5	QPSK	1	24	17.07	17.07	17.07					
5	QPSK	12	0	17.13	17.15	17.11	18.5	0			
5	QPSK	12	7	17.13	17.06	17.02					
5	QPSK	12	13	17.07	17.07	17.04					
5	QPSK	25	0	17.07	17.09	17.03	18.5	0			
5	16QAM	1	0	17.18	17.21	17.22					
5	16QAM	1	12	17.01	16.97	16.99					
5	16QAM	1	24	16.96	16.96	16.96	18.5	0			
5	16QAM	12	0	17.06	16.98	16.99					
5	16QAM	12	7	16.98	17.02	17.02					
5	16QAM	12	13	16.96	16.97	16.92	18.5	0			
5	16QAM	25	0	16.93	16.97	16.99					
5	64QAM	1	0	17.22	17.23	17.23					
5	64QAM	1	12	16.97	16.98	16.97	18.5	0			
5	64QAM	1	24	17.01	16.96	16.97					
5	64QAM	12	0	17.11	17.10	17.12		18.5	0		
5	64QAM	12	7	16.96	17.01	16.92					
5	64QAM	12	13	16.95	16.96	17.00					
5	64QAM	25	0	16.94	16.98	16.95	18	0.5			
5	256QAM	1	0	16.92	16.93	16.93					
5	256QAM	1	12	16.06	16.08	16.05					
5	256QAM	1	24	16.18	16.08	16.08	18	0.5			
5	256QAM	12	0	16.12	16.12	16.05					
5	256QAM	12	7	16.16	16.16	16.16					
5	256QAM	12	13	16.04	16.10	16.01	18	0.5			
5	256QAM	25	0	16.22	16.22	16.15					

Band 66 Ant1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up limit (sec)	MPE (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	16.42	15.67	15.62	16.7	0			
20	QPSK	1	49	16.36	15.33	15.30					
20	QPSK	1	99	16.36	15.33	15.30					
20	QPSK	50	0	16.43	15.40	15.46	16.7	0			
20	QPSK	50	24	16.30	15.41	15.25					
20	QPSK	50	50	16.27	15.38	15.18					
20	QPSK	100	0	16.36	15.38	15.30	16.7	0			
20	16QAM	1	0	16.37	15.34	15.24					
20	16QAM	1	49	16.25	15.23	15.24					
20	16QAM	1	99	16.27	15.21	15.26	16.7	0			
20	16QAM	25	0	16.37	15.45	15.26					
20	16QAM	50	24	16.25	15.37	15.30		16.7	0		
20	16QAM	50	50	16.23	15.29	15.14					
20	16QAM	100	0	16.32	15.32	15.22	16.7	0			
20	64QAM	1	0	16.33	15.54	15.49					
20	64QAM	1	49	16.26	15.24	15.27	16.7	0			
20	64QAM	1	99	16.26	15.24	15.37					
20	64QAM	50	0	16.38	15.42	15.41		16.7	0		
20	64QAM	50	24	16.21	15.33	15.16					
20	64QAM	50	50	16.16	15.29	15.16	16.7	0			
20	256QAM	1	0	16.32	15.35	15.18					
20	256QAM	1	49	16.22	15.25	15.26	16.7	0			
20	256QAM	1	99	16.32	15.30	15.26					
20	256QAM	25	0	16.33	15.47	15.42	16.7	0			
20	256QAM	25	12	16.22	15.37	15.23					
20	256QAM	50	24	16.17	15.35	15.16	16.7	0			
20	256QAM	50	50	16.17	15.35	15.16					
20	256QAM	100	0	16.29	15.32	15.25					
Channel											
Frequency (MHz)											
15	QPSK	1	0	15.32	14.64	14.50	16.7	0			
15	QPSK	1	37	15.33	15.23	15.22					
15	QPSK	1	74	16.25	15.29	15.19					
15	QPSK	36	0	15.34	15.43	15.35	16.7	0			
15	QPSK	36	18	15.22	15.28	15.17					
15	QPSK	36	39	15.18	15.25	15.05					
15	QPSK	75	0	15.27	15.34	15.26	16.7	0			
15	16QAM	1	0	15.29	15.40	15.42					
15	16QAM	1	37	15.20	15.10	15.12		16.7	0		
15	16QAM	1	74	16.26	15.30	15.28					
15	16QAM	36	0	15.24	15.38	15.31	16.7	0			
15	16QAM	36	20	15.16	15.29	15.08					
15	16QAM	36	20	15.30	15.42	15.28		16.7	0		
15	16QAM	75	0	15.11	15.30	15.16					
15	64QAM	1	0	16.27	15.43	15.37	16.7	0			
15	64QAM	1	37	16.24	15.44	15.38					
15	64QAM	1	74	15.13	15.15	15.15		16.7	0		
15	64QAM	36	0	15.33	15.29	15.39					
15	64QAM	36	20	15.07	15.27	15.07	16.7	0			
15	64QAM	36	39	15.07	15.25	15.07					
15	64QAM	75	0	15.21	15.28	15.11		16.7	0		
15	256QAM	1	0	15.35	15.46	15.35					
15	256QAM	1	37	15.10	15.23	15.20	16.7	0			
15	256QAM	1	74	16.28	15.24	15.18					
15	256QAM	36	0	15.26	15.32	15.26	16.7	0			
15	256QAM	36	20	15.10	15.31	15.20					
15	256QAM	36	39	15.05	15.22	15.08	16.7	0			
15	256QAM	75	0	15.26	15.35	15.15					
Channel											
Frequency (MHz)											
10	QPSK	1	0	16.33	15.65	15.62	16.7	0			
10	QPSK	1	26	16.33	15.31	15.31					
10	QPSK	1	49	16.31	15.30	15.18		16.7	0		
10	QPSK	25	0	16.32	15.30	15.25					
10	QPSK	25	12	16.22	15.30	15.13	16.7	0			
10	QPSK	25	25	16.22	15.26	15.06					
10	QPSK	50	0	16.32	15.34	15.29	16.7	0			
10	16QAM	1	0	16.25	15.40	15.41					
10	16QAM	1	26	16.19	15.20	15.12		16.7	0		
10	16QAM	1	49	16.25	15.38	15.31					
10	16QAM	25	0	16.29	15.43	15.29	16.7	0			
10	16QAM	25	12	16.23	15.34	15.08					
10	16QAM	25	25	16.11	15.34	15.08	16.7	0			
10	64QAM	1	0	16.36	15.67	15.61					
10	64QAM	1	26	16.30	15.32	15.31	16.7	0			
10	64QAM	1	49	16.30	15.22	15.22					
10	64QAM	25	0	16.32	15.36	15.36		16.7	0		
10	64QAM	25	12	16.22	15.26	15.06					
10	64QAM	25	25	16.11	15.34	15.08	16.7	0			
10	256QAM	1	0	16.28	15.53	15.42					
10	256QAM	1	26	16.22	15.30	15.25	16.7	0			
10	256QAM	1	49	16.24	15.34	15.43					
10	256QAM	25	0	16.24	15.34	15.24		16.7	0		
10	256QAM	25	12	16.13	15.31	15.13					
10	256QAM	25	25	16.31	15.38	15.31	16.7	0			
10	256QAM	50	0	16.33	15.41	15.35					
10	256QAM	50	12	16.13	15.21	15.08	16.7	0			
10	256QAM	50	25	16.17	15.30	15.22					
Channel											
Frequency (MHz)											
5	QPSK	1	0	16.32	15.60	15.50	16.7	0			
5	QPSK	1	12	16.22	15.34	15.31					
5	QPSK	1	24	16.22	15.14	15.13		16.7	0		
5	QPSK	12	0	16.33	15.45	15.44					
5	QPSK	12	7	16.17	15.39	15.11	16.7	0			
5	QPSK	12	14	16.22	15.31	15.15					
5	QPSK	25	0	16.33	15.36	15.18	16.7	0			
5	QPSK	25	7	16.22	15.27	15.07					
5	QPSK	25	14	16.22	15.14	15.13		16.7	0		
5	QPSK	12	0	16.30	15.47	15.40					
5	QPSK	12	7	16.16	15.38	15.15	16.7	0			
5	QPSK	12	14	16.22	15.31	15.15					
5	QPSK	25	0	16.33	15.36	15.18	16.7	0			
5	QPSK	25	7	16.22	15.27	15.07					
5	QPSK	25	14	16.22	15.13	15.13		16.7	0		
5	QPSK	12	0	16.29	15.41	15.40					
5	QPSK	12	7	16.16	15.38	15.15	16.7	0			
5	QPSK	12	14	16.22	15.31	15.15					
5	QPSK	25	0	16.33	15.36	15.18	16.7	0			
5	QPSK	25	7	16.22	15.27	15.07					
5	QPSK	25	14	16.22	15.13	15.13		16.7	0		
5	QPSK	12	0	16.29	15.41	15.40					
5	QPSK	12	7	16.16	15.38	15.15	16.7	0			
5	QPSK	12	14	16.22	15.31	15.15					
5	QPSK	25	0	16.33	15.36	15.18	16.7	0			
5	QPSK	25	7	16.22	15.27	15.07					
5	QPSK	25	14	16.22	15.13	15.13		16.7	0		
5	QPSK	12	0	16.29	15.41	15.40					
5	QPSK	12	7	16.16	15.38	15.15	16.7	0			
5	QPSK	12	14	16.22	15.31	15.15					
5	QPSK	25	0	16.33	15.36	15.18	16.7	0			
5	QPSK	25	7	16.22	15.27	15.07					
5	QPSK	25	14	16.22	15.13	15.13		16.7	0		
5	QPSK	12	0	16.29	15.41	15.40					
5	QPSK	12	7	16.16	15.38	15.15	16.7	0			
5	QPSK	12	14	16.22	15.31	15.15					
5	QPSK	25	0	16.33	15.36	15.18	16.7	0			
5	QPSK	25	7	16.22	15.27	15.07					
5	QPSK	25	14	16.22	15.13	15.13		16.7	0		
5	QPSK	12	0	16.29	15.41	15.40					
5	QPSK	12	7	16.16	15.38	15.15	16.7	0			
5	QPSK	12	14	16.22	15.31	15.15					
5	QPSK	25	0	16.33	15.36	15.18	16.7	0			
5	QPSK	25	7	16.22	15.27	15.07					
5	QPSK	25	14	16.22	15.13	15.13		16.7	0		
5	QPSK	12	0	16.29	15.41	15.40					
5	QPSK	12	7	16.16	15.38	15.15	16.7	0			
5	QPSK	12	14	16.22	15.31	15.15					
5	QPSK	25	0	16.33	15.36	15.18	16.7	0			
5	QPSK	25	7	16.22	15.27	15.07					
5	QPSK	25	14	16.22	15.13	15.13		16.7	0		
5	QPSK	12	0	16.29	15.41	15.40					
5	QPSK	12	7	16.16	15.38	15.15	16.7	0			
5	QPSK	12	14	16.22	15.31	15.15					
5	QPSK	25	0	16.33	15.36	15.18	16.7	0			
5	QPSK	25	7	16.22	15.27	15.07					
5	QPSK	25	14	16.22	15.13	15.13		16.7	0		
5	QPSK	12	0	16.29	15.41	15.40					
5	QPSK	12	7	16.16	15.38	15.15	16.7	0			
5	QPSK	12	14	16.22	15.31	15.15					
5	QPSK	25	0	16.33	15.36	15.18	16.7	0			
5	QPSK	25	7	16.22	15.27	15.07					
5	QPSK	25	14	16.22	15.13	15.13		16.7	0		
5	QPSK	12	0	16.29	15.41	15.40					
5	QPSK	12	7	16.16	15.38	15.15	16.7	0			
5	QPSK	12	14	16.22	15.31	15.15					
5	QPSK	25	0	16.33	15.36	15.18	16.7	0			
5	QPSK	25	7	16.22	15.27	15.07					
5	QPSK	25	14	16.22	15.13	15.13		16.7	0		
5	QPSK	12	0	16.29	15.41	15.40					
5	QPSK	12	7	16.16	15.38	15.15	16.7	0			
5	QPSK	12	14	16.22	15.31	15.15					
5	QPSK	25	0	16.33	15.36	15.18	16.7	0			
5	QPSK	25	7	16.22	15.27	15.07					
5	QPSK	25	14	16.22	15.13	15.13		16.7	0		
5	QPSK	12	0	16.29	15.41	15.40					
5	QPSK	12	7	16.16	15.38	15.15	16.7				



Band 38 Ant1														
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	20.02	20.02	20.02	21.1	0						
20	QPSK	1	49	20.03	20.01	19.78								
20	QPSK	1	99	19.98	19.98	19.79								
20	QPSK	50	0	19.79	19.79	19.71								
20	QPSK	50	24	19.82	19.87	19.41	21	0.1						
20	QPSK	50	49	19.84	19.89	19.54								
20	QPSK	100	0	19.59	19.62	19.54								
20	15QAM	1	0	19.61	19.58	19.55								
20	15QAM	1	49	19.64	19.62	19.33	21	0.1						
20	15QAM	1	99	19.52	19.41	19.41								
20	15QAM	50	0	19.46	19.39	19.31								
20	15QAM	50	24	19.42	19.39	19.46								
20	15QAM	50	50	19.26	19.48	19.37	20	1.1						
20	15QAM	100	0	19.22	19.49	19.27								
20	84QAM	1	0	19.75	19.71	19.77								
20	84QAM	1	49	19.74	19.71	19.71								
20	84QAM	50	0	17.60	17.63	17.67	19	2.1						
20	84QAM	50	24	17.60	17.62	17.57								
20	84QAM	50	50	17.67	17.57	17.56								
20	84QAM	100	0	17.71	17.66	17.84								
20	256QAM	1	0	19.81	19.76	19.76	17	4.1						
20	256QAM	1	49	19.71	19.69	19.63								
20	256QAM	1	99	19.72	19.66	19.73								
20	256QAM	50	0	19.64	19.67	19.66								
20	256QAM	50	24	19.61	19.59	19.59	17	4.1						
20	256QAM	50	50	19.62	19.66	19.64								
20	256QAM	100	0	19.53	19.70	19.70								
20	256QAM	100	0	19.72	19.69	19.67								
Channel														
Frequency (MHz)														
15	QPSK	1	0	20.02	20.02	20.02	21.1	0						
15	QPSK	1	37	19.98	19.98	19.66								
15	QPSK	1	74	19.98	19.98	19.83								
15	QPSK	36	0	19.84	19.89	19.59								
15	QPSK	36	20	19.45	19.45	19.29	21	0.1						
15	QPSK	36	36	19.46	19.46	19.46								
15	QPSK	75	0	19.51	19.57	19.50								
15	15QAM	1	0	19.51	19.50	19.40								
15	15QAM	1	37	19.51	19.50	19.33	21	0.1						
15	15QAM	1	74	19.40	19.37	19.36								
15	15QAM	36	0	19.41	19.51	19.41								
15	15QAM	36	39	19.32	19.32	19.29								
15	15QAM	36	39	19.18	19.43	19.25	20	1.1						
15	15QAM	75	0	19.40	19.53	19.22								
15	84QAM	1	0	19.84	19.89	19.70								
15	84QAM	1	37	19.87	19.85	19.87								
15	84QAM	1	74	19.83	19.83	19.82	20	1.1						
15	84QAM	36	0	19.51	19.58	19.58								
15	84QAM	36	20	19.47	19.50	19.44								
15	84QAM	36	20	19.32	19.32	19.29								
15	84QAM	75	0	17.52	17.54	17.56	19	2.1						
15	256QAM	1	0	19.73	19.65	19.62								
15	256QAM	15	0	19.65	19.65	19.63								
15	256QAM	15	0	19.65	19.65	19.59								
15	256QAM	36	0	19.55	19.50	19.57	17	4.1						
15	256QAM	36	39	19.52	19.50	19.40								
15	256QAM	36	39	19.37	19.37	19.39								
15	256QAM	75	0	19.70	19.66	19.63								
Channel														
Frequency (MHz)														
10	QPSK	1	0	20.02	20.02	20.02	21.1	0						
10	QPSK	1	25	19.99	19.96	19.67								
10	QPSK	1	49	19.91	19.79	19.83								
10	QPSK	25	0	19.73	19.87	19.65								
10	QPSK	25	12	19.41	19.47	19.34	21	0.1						
10	QPSK	25	25	19.38	19.59	19.46								
10	QPSK	50	0	19.46	19.59	19.42								
10	QPSK	50	0	19.58	19.64	19.51								
10	15QAM	1	0	19.58	19.64	19.51	21	0.1						
10	15QAM	1	25	19.34	19.60	19.22								
10	15QAM	1	49	19.37	19.32	19.29								
10	15QAM	25	0	19.39	19.48	19.42								
10	15QAM	25	0	19.39	19.48	19.42	20	1.1						
10	15QAM	50	0	19.41	19.45	19.35								
10	84QAM	1	0	19.64	19.66	19.67								
10	84QAM	1	25	19.70	19.68	19.64								
10	84QAM	1	49	19.65	19.62	19.57	19	2.1						
10	84QAM	25	12	17.64	17.65	17.56								
10	84QAM	25	25	17.69	17.48	17.47								
10	84QAM	50	0	17.61	17.57	17.59								
10	256QAM	1	0	19.73	19.69	19.64	17	4.1						
10	256QAM	1	25	19.65	19.52	19.59								
10	256QAM	1	49	19.68	19.56	19.60								
10	256QAM	25	0	19.60	19.55	19.58								
10	256QAM	25	0	19.60	19.55	19.46	17	4.1						
10	256QAM	25	12	19.55	19.49	19.46								
10	256QAM	25	25	19.55	19.57	19.51								
10	256QAM	50	0	19.65	19.63	19.66								
Channel														
Frequency (MHz)														
5	QPSK	1	0	19.99	19.99	19.96	21.1	0						
5	QPSK	1	12	19.95	19.95	19.65								
5	QPSK	1	24	19.99	19.73	19.82								
5	QPSK	12	0	19.95	19.79	19.83								
5	QPSK	12	7	19.39	19.32	19.35	21	0.1						
5	QPSK	12	13	19.45	19.59	19.44								
5	QPSK	25	0	19.46	19.59	19.46								
5	15QAM	1	0	19.52	19.48	19.47								
5	15QAM	1	12	19.39	19.55	19.24	21	0.1						
5	15QAM	1	24	19.43	19.34	19.33								
5	15QAM	12	0	19.34	19.51	19.42								
5	15QAM	12	7	19.31	19.34	19.36								
5	15QAM	12	13	19.16	19.41	19.31	20	1.1						
5	15QAM	25	0	19.44	19.68	19.23								
5	84QAM	1	0	19.70	19.81	19.67								
5	84QAM	1	12	19.62	19.63	19.65								
5	84QAM	1	24	19.66	19.58	19.62	19	2.1						
5	84QAM	12	0	17.61	17.52	17.54								
5	84QAM	12	7	17.49	17.53	17.49								
5	84QAM	12	13	17.68	17.53	17.49								
5	84QAM	25	0	17.65	17.66	17.65	17	4.1						
5	256QAM	1	0	19.71	19.69	19.71								
5	256QAM	1	12	19.64	19.55	19.57								



Band 48_FCC Ant1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freqs	Power High Ch / Freqs	Power High Mod Ch / Freqs	Power High Mod Ch / Freqs	Turn-up time (dBm)	MPP (dB)	
Channel				56540	56630	56760	56850	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56540	56630	56760	56850			
20	QPSK	1	0	19.02	19.20	19.04	19.06	20	0	
20	QPSK	1	49	18.88	19.05	19.03	18.89			
20	QPSK	1	99	19.02	19.11	19.07	19.08			
20	QPSK	50	0	19.03	19.08	19.07	19.04			
20	QPSK	50	24	18.80	19.00	18.98	18.91	20	0	
20	QPSK	50	39	18.90	19.02	18.98	18.94			
20	QPSK	100	0	18.82	19.03	19.01	18.89			
20	16QAM	1	0	18.89	19.68	18.86	18.71			
20	16QAM	1	49	18.82	19.66	18.58	18.59	20	0	
20	16QAM	1	99	18.50	18.66	18.56	18.59			
20	16QAM	50	0	18.97	19.70	18.94	18.64			
20	16QAM	50	24	18.81	19.84	18.52	18.54			
20	8QAM	100	0	18.54	18.66	18.54	18.54	20	0	
20	8QAM	1	0	18.35	18.45	18.42	18.42			
20	8QAM	1	49	18.53	18.62	18.58	18.58			
20	8QAM	1	99	18.35	18.35	18.36	18.31			
20	8QAM	50	0	18.42	18.45	18.39	18.42	20	0	
20	8QAM	50	24	18.31	18.40	18.32	18.34			
20	8QAM	50	50	18.25	18.32	18.28	18.24			
20	8QAM	100	0	18.37	18.39	18.32	18.37			
20	25QAM	1	0	18.45	18.45	18.37	18.38	18	2	
20	25QAM	1	49	18.30	18.37	18.33	18.31			
20	25QAM	1	99	18.25	18.32	18.28	18.26			
20	25QAM	50	0	18.71	18.18	18.14	18.12			
20	25QAM	50	24	18.05	18.08	18.02	18.04	18	2	
20	25QAM	50	50	18.10	18.14	18.06	18.06			
20	25QAM	100	0	18.04	18.11	18.02	18.08			
20	25QAM	100	0	18.04	18.11	18.02	18.08			
Channel				56715	56820	56760	56850	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56715	56820	56760	56850			
15	QPSK	1	0	18.03	19.07	18.39	18.38	20	0	
15	QPSK	1	37	18.74	19.01	18.88	18.77			
15	QPSK	1	74	18.90	19.02	18.96	18.88			
15	QPSK	86	20	18.87	19.02	19.00	18.81			
15	QPSK	86	20	18.73	18.93	18.89	18.87	20	0	
15	QPSK	86	39	18.72	18.83	18.88	18.88			
15	QPSK	75	0	18.78	18.94	18.95	18.82			
15	16QAM	1	0	18.59	18.63	18.62	18.67			
15	16QAM	1	37	18.57	18.54	18.52	18.45	20	0	
15	16QAM	1	74	18.40	18.59	18.54	18.57			
15	16QAM	58	0	18.55	18.61	18.60	18.58			
15	16QAM	86	20	18.51	18.54	18.40	18.47			
15	16QAM	86	39	18.51	18.53	18.42	18.43	20	0	
15	16QAM	75	0	18.48	18.61	18.50	18.42			
15	8QAM	1	0	18.34	18.40	18.39	18.37			
15	8QAM	1	37	18.40	18.60	18.53	18.51			
15	8QAM	1	74	18.25	18.31	18.16	18.26	20	0	
15	8QAM	86	0	18.35	18.35	18.33	18.29			
15	8QAM	58	20	18.28	18.31	18.24	18.24			
15	8QAM	86	39	18.16	18.25	18.24	18.25			
15	8QAM	75	0	18.31	18.37	18.29	18.27	18	2	
15	25QAM	1	0	18.41	18.37	18.33	18.32			
15	25QAM	1	37	18.20	18.34	18.28	18.28			
15	25QAM	1	74	18.18	18.28	18.20	18.18			
15	25QAM	58	0	18.03	18.12	18.10	18.06	18	2	
15	25QAM	86	20	18.07	18.00	18.02	18.05			
15	25QAM	86	39	18.03	18.07	18.03	18.04			
15	25QAM	75	0	18.02	18.06	18.03	18.02			
Channel				56920	56915	56925	56915	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56920	56915	56925	56915			
10	QPSK	1	0	18.90	19.16	19.02	18.97	20	0	
10	QPSK	1	25	18.77	18.98	18.90	18.80			
10	QPSK	1	49	18.97	19.08	19.04	18.93			
10	QPSK	25	0	18.84	19.09	19.01	18.92			
10	QPSK	25	12	18.70	18.98	18.91	18.85	20	0	
10	QPSK	25	25	18.78	19.91	18.95	18.82			
10	QPSK	50	0	18.74	19.92	18.96	18.82			
10	16QAM	1	0	18.03	18.67	18.83	18.64			
10	16QAM	1	25	18.48	18.64	18.49	18.30	20	0	
10	16QAM	1	49	18.41	18.62	18.52	18.47			
10	16QAM	25	0	18.40	18.58	18.51	18.61			
10	16QAM	25	12	18.50	18.61	18.49	18.45			
10	16QAM	25	25	18.50	18.61	18.49	18.45	20	0	
10	8QAM	50	0	18.30	18.40	18.39	18.33			
10	8QAM	1	25	18.40	18.54	18.53	18.49			
10	8QAM	1	49	18.27	18.30	18.20	18.28			
10	8QAM	25	0	18.40	18.40	18.31	18.29	20	0	
10	8QAM	25	12	18.23	18.33	18.25	18.26			
10	8QAM	25	25	18.18	18.24	18.22	18.18			
10	8QAM	50	0	18.27	18.30	18.27	18.29			
10	25QAM	1	0	18.41	18.41	18.35	18.32	18	2	
10	25QAM	1	25	18.25	18.35	18.25	18.25			
10	25QAM	1	49	18.21	18.23	18.25	18.16			
10	25QAM	25	0	18.04	18.11	18.09	18.08			
10	25QAM	25	12	18.00	18.04	18.05	18.04	18	2	
10	25QAM	25	25	18.07	18.00	18.04	18.03			
10	25QAM	50	0	18.03	18.03	18.03	18.06			
Channel				56925	56915	56925	56915	Turn-up time (dBm)	MPP (dB)	
Frequency (MHz)				56925	56915	56925	56915			
5	QPSK	1	0	18.91	19.14	19.02	18.93	20	0	
5	QPSK	1	12	18.70	18.99	18.92	18.81			
5	QPSK	1	24	18.97	19.06	19.01	18.96			
5	QPSK	12	0	18.80	18.99	18.97	18.81			
5	QPSK	12	7	18.89	18.89	18.85	18.89	20	0	
5	QPSK	12	13	18.74	18.95	18.94	18.77			
5	QPSK	25	0	18.78	18.66	18.97	18.78			
5	16QAM	1	0	18.07	18.67	18.54	18.66			
5	16QAM	1	12	18.48	18.54	18.49	18.51	20	0	
5	16QAM	1	24	18.40	18.54	18.47	18.48			
5	16QAM	12	0	18.44	18.58	18.59	18.53			
5	16QAM	12	7	18.58	18.54	18.39	18.45			
5	16QAM	12	13	18.48	18.51	18.37	18.50	20	0	
5	16QAM	25	0	18.40	18.61	18.83	18.46			
5	8QAM	1	0	18.31	18.37	18.36	18.35			
5	8QAM	1	12	18.43	18.54	18.52	18.59			
5	8QAM	1	24	18.24	18.28	18.20	18.25	20	0	
5	8QAM	12	0	18.34	18.43	18.31	18.40			
5	8QAM	12	7	18.25	18.31	18.29	18.26			
5	8QAM	12	13	18.18	18.27	18.20	18.18			
5	8QAM	25	0	18.35	18.35	18.24	18.30	18	2	
5	25QAM	1	0	18.41	18.35	18.31	18.32			
5	25QAM	1	12	18.25	18.30	18.28	18.21			
5	25QAM	1	24	18.17	18.24	18.20	18.18			
5	25QAM	12	0	18.04	18.11	18.08	18.08	18	2	
5	25QAM	12	7	18.00	18.01	18.03	18.03	18	2	

GSM 1900 A/G2							
Tx Channel	Burst Average Power (dBm)			Tx Power Limit (dBm)	Frame Average Power (dBm)		
	1800.2	1800	1800.8	1800.2	1800	1800.8	1800
Frequency (MHz)	1800.2	1800	1800.8	1800.2	1800	1800.8	1800
OMNI 1 Tx max	30.09	30.14	30.09	30.09	21.14	20.99	21.59
OMNI 1 Tx min	30.11	30.17	30.05	30.05	21.11	21.17	20.95
OMNI 2 Tx max	27.68	28.02	27.81	29.00	21.98	22.02	21.81
OMNI 3 Tx max	26.49	26.09	26.31	27.00	22.30	22.33	22.05
OMNI 4 Tx max	24.07	24.12	23.97	25.00	21.07	21.12	20.97
EDGE 1 Tx max	23.74	23.00	23.52	26.00	18.74	18.00	18.52
EDGE 2 Tx max	24.08	24.13	23.80	25.00	18.08	18.13	17.89
EDGE 3 Tx max	22.89	23.01	22.76	24.00	16.70	16.75	16.54
EDGE 4 Tx max	20.77	20.93	20.52	22.00	17.77	17.83	17.50

WCDMA II A/G2							
Tx Channel	Burst			Tx Power Limit (dBm)	WCDMA IV A/G2		
	1800.2	1800	1800.8	1800.2	1800	1800.8	1800
Frequency (MHz)	1800.2	1800	1800.8	1800.2	1800	1800.8	1800
SOPF Rel 99	22.09	22.13	22.07	23.80	22.81	22.85	22.81
SOPF Rel 99 RNC 12.2kops	21.10	21.17	20.91	22.00	21.70	21.91	21.66
SOPF Rel 6	22.08	22.15	22.14	23.80	22.81	22.89	22.87
SOPF Rel 6 HSDPA Subsect-1	21.10	21.17	20.91	22.00	21.70	21.91	21.66
SOPF Rel 6 HSDPA Subsect-2	20.90	21.01	21.07	22.80	21.48	21.85	21.60
SOPF Rel 6 HSDPA Subsect-3	20.48	20.73	20.73	22.00	20.94	21.30	21.30
SOPF Rel 6 HSDPA Subsect-4	20.07	20.50	20.57	20.10	21.07	21.51	21.28
SOPF Rel 6 DC-HSDPA Subsect-1	21.42	21.86	20.98	22.80	22.85	22.09	21.68
SOPF Rel 6 DC-HSDPA Subsect-2	21.38	21.03	21.40	22.80	22.85	21.17	22.88
SOPF Rel 6 DC-HSDPA Subsect-3	20.68	20.07	20.70	22.10	21.38	21.50	21.52
SOPF Rel 6 DC-HSDPA Subsect-4	20.09	20.00	20.67	22.10	21.09	21.35	21.49
SOPF Rel 6 HSPA Subsect-1	21.33	21.07	21.00	22.80	21.92	21.65	22.85
SOPF Rel 6 HSPA Subsect-2	19.25	19.01	19.04	20.80	19.78	19.90	20.80
SOPF Rel 6 HSPA Subsect-3	20.13	20.05	20.02	21.00	20.07	20.06	21.00
SOPF Rel 6 HSPA Subsect-4	19.95	19.11	19.40	20.80	19.54	19.81	20.80
SOPF Rel 6 HSPA Subsect-5	21.21	21.35	21.13	22.80	21.85	22.10	22.80

Band 2 Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.24	21.33	21.22			22.3	0
20	QPSK	1	49	21.17	21.32	21.13				
20	QPSK	1	99	21.18	21.23	21.11				
20	QPSK	50	0	21.19	21.25	21.11				
20	QPSK	24	0	20.96	21.24	21.04				
20	QPSK	50	50	21.12	21.19	20.97			22.3	0
20	QPSK	100	0	21.07	21.13	21.03				
20	HQAM	1	0	21.15	21.28	21.08				
20	HQAM	1	49	20.98	21.18	21.05			22.3	0
20	HQAM	1	99	21.16	21.12	21.05				
20	HQAM	50	0	21.01	21.11	21.09				
20	HQAM	50	24	20.89	21.18	20.93			22.3	0
20	HQAM	50	50	21.02	21.08	20.91				
20	HQAM	100	0	20.99	21.05	20.93				
20	HQAM	1	0	21.04	21.10	21.09			22.3	0
20	HQAM	1	49	20.96	21.15	20.96				
20	HQAM	50	0	20.95	21.10	20.99				
20	HQAM	50	0	19.85	20.01	19.79				
20	HQAM	50	24	19.84	20.03	19.76			21.5	0.8
20	HQAM	50	50	19.78	20.03	19.86				
20	HQAM	100	0	19.74	20.16	19.83				
20	HQAM	1	49	18.02	18.00	17.83			19.5	2.8
20	25QAM	1	99	18.12	18.00	18.15				
20	25QAM	50	0	17.26	17.95	18.01				
20	25QAM	50	24	17.95	17.91	17.92			19.5	2.8
20	25QAM	50	50	17.81	18.01	18.08				
20	25QAM	100	0	17.76	18.14	18.09				
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.17	21.18	21.16			22.3	0
15	QPSK	1	37	21.08	21.22	20.92				
15	QPSK	1	74	21.11	21.14	21.08				
15	QPSK	36	0	21.14	21.12	21.03				
15	QPSK	36	20	20.88	21.17	20.93			22.3	0
15	QPSK	36	36	21.01	21.06	20.93				
15	QPSK	75	0	21.03	21.19	20.97				
15	HQAM	1	0	21.04	21.23	20.92				
15	HQAM	1	37	20.92	21.19	21.01			22.3	0
15	HQAM	1	74	21.12	21.07	21.04				
15	HQAM	36	0	20.87	20.99	20.99				
15	HQAM	36	20	20.84	21.05	20.82			22.3	0
15	HQAM	36	36	20.96	20.95	20.87				
15	HQAM	75	0	20.93	20.95	20.87				
15	HQAM	1	0	20.98	21.03	20.97			22.3	0
15	HQAM	1	37	20.94	21.05	20.93				
15	HQAM	1	74	20.90	20.99	20.89				
15	HQAM	36	0	19.85	19.77	19.81				
15	HQAM	36	20	19.78	19.86	19.82			21.5	0.8
15	HQAM	36	36	19.84	19.92	19.85				
15	HQAM	75	0	19.80	19.85	19.75				
15	HQAM	1	0	17.86	17.86	17.86			19.5	2.8
15	25QAM	1	37	18.05	17.97	17.93				
15	25QAM	1	74	18.09	17.74	17.93				
15	25QAM	36	0	17.84	17.83	17.82				
15	25QAM	36	20	17.82	17.87	17.84			19.5	2.8
15	25QAM	36	39	17.78	17.82	18.01				
15	25QAM	75	0	17.76	17.88	17.88				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.09	21.14	20.97			22.3	0
10	QPSK	1	49	21.15	21.12	21.02				
10	QPSK	1	99	21.07	21.14	21.07				
10	QPSK	25	12	20.91	21.12	21.09			22.3	0
10	QPSK	25	25	21.00	21.13	20.91				
10	HQAM	1	0	21.07	21.19	20.98				
10	HQAM	1	25	20.84	21.11	21.05			22.3	0
10	HQAM	1	49	21.10	21.08	20.99				
10	HQAM	25	0	20.95	21.08	20.89				
10	HQAM	25	12	20.82	21.13	20.82			22.3	0
10	HQAM	25	25	20.90	20.91	20.85				
10	HQAM	50	0	20.98	20.92	20.89				
10	HQAM	1	0	20.90	21.08	21.05			22.3	0
10	HQAM	1	25	20.94	21.12	20.93				
10	HQAM	1	49	20.84	21.08	20.92				
10	HQAM	25	0	19.79	19.87	19.74			21.5	0.8
10	HQAM	25	12	19.81	19.78	19.89				
10	HQAM	25	25	19.85	19.94	19.81				
10	HQAM	50	0	19.82	19.89	19.75				
10	25QAM	1	0	17.92	18.04	17.92				
10	25QAM	1	25	18.04	17.80	17.79			19.5	2.8
10	25QAM	1	49	17.92	17.79	17.86				
10	25QAM	12	0	17.79	17.83	17.77				
10	25QAM	25	12	17.81	17.76	17.81			19.5	2.8
10	25QAM	25	25	17.87	17.87	18.02				
10	25QAM	50	0	17.81	18.02	17.93				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.13	21.13	21.11			22.3	0
5	QPSK	1	12	21.06	21.22	21.05				
5	QPSK	1	24	21.11	21.18	21.01				
5	QPSK	12	0	21.07	21.11	21.05				
5	QPSK	12	7	20.89	21.16	20.92			22.3	0
5	QPSK	12	13	21.04	21.13	20.85				
5	QPSK	25	0	21.03	21.08	20.98				
5	HQAM	1	0	21.13	21.19	20.98			22.3	0
5	HQAM	1	12	20.86	21.12	20.93				
5	HQAM	1	24	21.03	21.02	20.95				
5	HQAM	12	0	20.91	21.08	20.89				
5	HQAM	12	7	20.77	21.14	20.79			22.3	0
5	HQAM	12	13	20.88	20.99	20.77				
5	HQAM	25	0	20.88	20.95	20.84				
5	HQAM	1	0	21.00	20.99	21.03			22.3	0
5	HQAM	1	12	20.93	21.08	20.87				
5	HQAM	1	24	20.85	21.01	20.84				
5	HQAM	12	0	19.87	19.90	19.88			21.5	0.8
5	HQAM	12	7	19.78	19.90	19.88				
5	HQAM	12	13	19.81	19.86	19.78				
5	HQAM	25	0	19.87	19.91	19.73				
5	25QAM	1	0	17.83	18.11	18.02				
5	25QAM	1	12	17.80	17.85	17.74			19.5	2.8
5	25QAM	1	24	17.89	17.84	17.94				
5	25QAM	12	0	17.82	17.84	17.88				
5	25QAM	12	13	17.85	17.79	17.88			19.5	2.8
5	25QAM	25	0	17.81	18.02	18.02				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.14	21.22	21.13			22.3	0
3	QPSK	1	8	21.04	21.21	21.03				
3	QPSK	1	14	21.15	21.17	21.03				
3	QPSK	8	0	21.15	21.11	21.09				
3	QPSK	8	4	20.84	21.15	20.81			22.3	0
3	QPSK	8	7	21.08	21.12	20.90				
3	QPSK	16	0	21.01	21.02	21.01				
3	HQAM	1	0	21.05	21.21	20.98			22.3	0
3	HQAM	1	8	20.90	21.15	20.91				
3	HQAM	1	14	21.13	21.04	20.92				
3	HQAM	8	0	20.93	20.97	20.82				
3	HQAM	8	4	20.83	21.12	20.89			22.3	0
3	HQAM	8	7	20.94	21.00	20.89				
3	HQAM	16	0	20.90	20.99	20.80				
3	HQAM	1	0	21.01	21.08	21.04			22.3	0
3	HQAM	1	8	20.94	21.11	20.88				
3	HQAM	1	14	20.85	21.04	20.87				
3	HQAM	8	0	19.88	19.76	19.82			21.5	0.8
3	HQAM	8	4	19.82	19.95	19.84				
3	HQAM	8	7	19.68	19.81	19.86				
3	HQAM	16	0	18.03	18.12	18.02				
3	25QAM	1	8	18.01	17.83	17.73			19.5	2.8
3	25QAM	1	14	17.88	17.81	17.89				
3	25QAM	8	0	17.76	17.83	17.78				
3	25QAM	8	4	17.79	17.77	17.73			19.5	2.8
3	25QAM	8	7	17.83	17.85	17.86				
3	25QAM	16	0	17.85	18.10	18.15				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.18	21.19	21.08			22.3	0
1.4	QPSK	1	3	21.05	21.28	21.05				
1.4	QPSK	1	5	21.09	21.14	21.05				
1.4	QPSK	1	7	21.11	21.16	21.07				
1.4	QPSK	3	0	20.87	21.12	20.90				
1.4	QPSK	3	3	21.03	21.08	20.92			22.3	0
1.4	HQAM	1	0	21.02	21.25	20.93				
1.4	HQAM	1	3	20.87	21.05	20.89			22.3	0
1.4	HQAM	1	5	20.91	20.99	20.88				
1.4	HQAM	3	1	20.77	21.06	20.89				
1.4	HQAM	3	3	20.82	21.03	20.85				
1.4	HQAM	6	0	20.93	20.97	20.89			22.3	0
1.4	HQAM	6	3	20.90	21.05	20.95				
1.4	HQAM	6	5	20.92	21.03	20.89				
1.4	HQAM	6	7	20.83	21.04	20.85			22.3	0
1.4	HQAM	6	9	21.27	21.03	21.03				
1.4	HQAM	6	11	21.06	21.07	21.03				

Band 25 Ant2																
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turnup time (sec)	MPR (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	21.30	21.40	21.24	22.3	0								
20	QPSK	1	49	21.20	21.26	21.13										
20	QPSK	1	99	21.21	21.28	21.13										
20	QPSK	50	0	21.24	21.31	21.19	22.3	0								
20	QPSK	50	24	21.02	21.29	21.08										
20	QPSK	50	50	21.18	21.29	21.08										
20	QPSK	100	0	21.18	21.27	21.10	22.3	0								
20	16QAM	1	0	21.19	21.38	21.17										
20	16QAM	1	49	21.07	21.26	21.09										
20	16QAM	1	99	21.19	21.17	21.09	22.3	0								
20	16QAM	50	0	21.10	21.24	21.12										
20	16QAM	50	24	20.93	21.20	21.04										
20	16QAM	50	50	21.09	21.16	20.94	22.3	0								
20	16QAM	100	0	21.10	21.13	21.06										
20	84QAM	1	0	21.14	21.23	21.15										
20	84QAM	1	49	21.09	21.26	21.05	22.3	0								
20	84QAM	1	99	21.03	21.15	21.03										
20	84QAM	50	0	20.15	20.14	20.11										
20	84QAM	50	24	19.90	20.16	19.90	21.5	0.8								
20	84QAM	50	50	20.00	20.11	19.91										
20	84QAM	100	0	20.13	20.12	19.99										
20	256QAM	1	0	18.23	18.22	18.07	19.5	2.8								
20	256QAM	1	49	17.00	18.20	17.99										
20	256QAM	1	99	17.97	18.06	17.97										
20	256QAM	50	0	18.50	18.54	18.36	19.5	2.8								
20	256QAM	50	24	17.99	18.04	18.00										
20	256QAM	50	50	17.98	18.08	17.89										
20	256QAM	100	0	17.90	18.00	17.80										
Channel																
Frequency (MHz)																
18	QPSK	1	0	18.05	18.04	18.07	22.3	0								
18	QPSK	1	33	21.20	21.34	21.18										
18	QPSK	1	74	21.12	21.22	21.06										
18	QPSK	36	0	21.13	21.24	21.11	22.3	0								
18	QPSK	36	36	20.90	21.23	21.08										
18	QPSK	36	39	21.14	21.20	20.97										
18	QPSK	75	0	21.08	21.16	20.97	22.3	0								
18	16QAM	1	0	21.17	21.30	21.12										
18	16QAM	1	37	21.02	21.23	20.98										
18	16QAM	1	74	21.07	21.09	20.96	22.3	0								
18	16QAM	36	0	21.05	21.12	20.99										
18	16QAM	36	39	20.85	21.13	20.91										
18	16QAM	36	39	20.85	21.09	20.92	22.3	0								
18	16QAM	75	0	21.04	21.10	21.01										
18	84QAM	1	0	20.97	20.98	20.96	21.5	0.8								
18	84QAM	1	33	20.93	20.97	20.91										
18	84QAM	1	74	20.96	20.95	20.91										
18	84QAM	36	0	20.96	19.98	19.98	19.5	2.8								
18	84QAM	36	39	20.96	19.98	19.98										
18	84QAM	36	39	19.90	20.00	19.75										
18	84QAM	75	0	20.91	19.98	19.76	19.5	2.8								
18	256QAM	1	0	18.12	18.12	17.99										
18	256QAM	1	37	17.79	18.13	17.80										
18	256QAM	1	74	17.75	17.84	17.62	19.5	2.8								
18	256QAM	36	0	17.99	17.99	17.84										
18	256QAM	36	39	17.74	18.00	17.73										
18	256QAM	75	0	17.79	17.83	17.63										
Channel																
Frequency (MHz)																
10	QPSK	1	0	21.40	21.39	21.13	22.3	0								
10	QPSK	1	12	21.10	21.20	21.10										
10	QPSK	1	24	21.15	21.24	21.09										
10	QPSK	12	0	21.16	21.12	21.12	22.3	0								
10	QPSK	12	7	20.91	21.20	21.00										
10	QPSK	12	13	21.08	21.20	21.01										
10	16QAM	1	0	21.11	21.31	21.15	22.3	0								
10	16QAM	1	12	20.97	21.23	21.06										
10	16QAM	1	24	21.12	21.09	21.11										
10	16QAM	12	0	20.97	21.19	21.01	22.3	0								
10	16QAM	12	7	20.84	21.11	20.97										
10	16QAM	12	13	21.06	21.03	20.96										
10	84QAM	1	0	21.06	21.03	20.96	22.3	0								
10	84QAM	1	0	20.97	21.10	20.97										
10	84QAM	1	12	20.89	21.06	20.92										
10	84QAM	12	0	20.90	21.00	20.97	21.5	0.8								
10	84QAM	12	7	19.82	20.94	19.82										
10	84QAM	12	13	19.94	20.94	19.87										
10	84QAM	25	0	18.13	18.11	17.91	19.5	2.8								
10	84QAM	25	12	17.99	18.04	17.84										
10	84QAM	25	25	17.86	17.86	17.86										
10	84QAM	50	0	17.94	17.92	17.88	19.5	2.8								
10	84QAM	50	12	17.77	17.77	17.84										
10	84QAM	50	25	17.82	17.88	17.81										
10	256QAM	1	0	17.94	18.00	17.87										
Channel																
Frequency (MHz)																
3	QPSK	1	0	21.19	21.37	21.19	22.3	0								
3	QPSK	1	12	21.22	21.21	21.15										
3	QPSK	1	14	21.11	21.15	21.05										
3	QPSK	8	0	21.17	21.18	21.14	22.3	0								
3	QPSK	8	8	20.96	21.26	21.06										
3	QPSK	8	8	21.13	21.27	21.09										
3	QPSK	16	0	21.08	21.15	20.98	22.3	0								
3	QPSK	16	8	21.15	21.23	21.08										
3	QPSK	16	8	20.94	21.31	21.07										
3	16QAM	1	14	21.08	21.12	21.02	22.3	0								
3	16QAM	1	14	20.93	21.14	20.97										
3	16QAM	8	0	20.90	21.15	20.97										
3	16QAM	8	8	20.94	21.15	20.91	22.3	0								
3	16QAM	8	8	21.00	21.22	20.93										
3	16QAM	8	8	20.96	20.99	20.94										
3	QPSK	8	0	19.85	20.03	19.80	19.5	0.8								
3	QPSK	8	8	19.87	20.02	19.83										
3	QPSK	8	8	19.84	19.93	19.80										
3	QPSK	16	0	20.09	19.98	19.75	19.5	2.8								
3	256QAM	1	0	17.86	18.01	17.83										
3	256QAM	1	14	17.80	17.82	17.82										
3	256QAM	8	0	17.86	17.86	17.86	19.5	2.8								
3	256QAM	8	8	17.94	17.94	17.79										
3	256QAM	8	8	17.84	17.89	17.71										
3	256QAM	16	0	17.87	17.87	17.87										
Channel																
Frequency (MHz)																
1.4	QPSK	1	0	21.18	21.30	21.11	22.3	0								
1.4	QPSK	1	8	21.13	21.28	21.11										
1.4	QPSK	1	8	21.10	21.21	21.05										
1.4	QPSK	3	0	21.13	21.23	21.10	22.3	0								
1.4	QPSK	3	8	20.97	21.23	21.03										
1.4	QPSK	3	8	21.16	21.20	20.96										
1.4	16QAM	1	0	21.14	21.31	21.07	22.3	0								
1.4	16QAM	1	8	21.03	21.22	20.97										
1.4	16QAM	1	8	20.98	21.14	21.01										
1.4	16QAM	3	0	20.83	21.13	20.95	22.3	0								
1.4	16QAM	3	8	20.92	21.14	21.02										
1.4	16QAM	3	8	20.87	20.89	20.87										
1.4	84QAM	1	0	19.92	20.03	19.85	21.5	0.8								
1.4	84QAM	1	8	19.91	19.91	19.87										
1.4	84QAM	3	0	17.89	18.10	17.88										
1.4	84QAM	3	8	17.79	17.82	17.71	19.5	2.8								
1.4	84QAM	3	8	17.84	17.84	17.84										
1.4	84QAM	3	8	17.87	17.88	17.83										
1.4	256QAM	1	0	17.84	17.84	17.84	19.5	2.8								
1.4	256QAM	1	8	17.87	17.93	18.00										
1.4	256QAM	1	8	17.87	17.93	18.00										



Band 38 Ant2													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)	MPE (dB)					
Channel													
Frequency (MHz)				38760	38800	38160							
20	QPSK	1	0	21.25	21.31	21.23	22.6	0					
20	QPSK	1	49	21.27	21.28	21.18							
20	QPSK	1	99	21.23	21.26	21.26							
20	QPSK	50	0	20.33	20.50	20.40							
20	QPSK	50	24	20.29	20.34	20.34	22	0.6					
20	QPSK	50	50	20.35	20.36	20.36							
20	QPSK	100	0	20.40	20.45	20.29							
20	16QAM	1	0	20.29	20.31	20.26							
20	16QAM	1	49	20.21	20.32	20.18	22	0.6					
20	16QAM	1	99	20.21	20.22	20.27							
20	16QAM	50	0	19.24	19.30	19.24							
20	16QAM	50	24	19.35	19.34	19.27							
20	16QAM	50	50	19.32	19.27	19.23	21	1.6					
20	16QAM	100	0	19.27	19.26	19.30							
20	16QAM	1	0	19.32	19.40	19.25							
20	16QAM	1	49	19.35	19.38	19.32							
20	16QAM	1	99	19.32	19.39	19.31	20	2.6					
20	16QAM	50	0	18.36	18.39	18.25							
20	16QAM	50	24	18.20	18.32	18.23							
20	16QAM	50	50	18.24	18.31	18.23							
20	16QAM	100	0	18.29	18.38	18.32	18	4.6					
20	256QAM	1	0	18.23	18.33	18.31							
20	256QAM	1	49	18.23	18.23	18.17							
20	256QAM	1	99	18.27	18.31	18.29							
20	256QAM	50	24	18.23	18.34	18.26	18	4.6					
20	256QAM	50	50	18.18	18.31	18.26							
20	256QAM	100	0	18.26	18.40	18.33							
Channel													
Frequency (MHz)				37825	38800	38175			Time-up Int (dBm)	MPE (dB)			
15	QPSK	1	0	21.23	21.23	21.18	22.6	0					
15	QPSK	1	37	21.18	21.21	21.07							
15	QPSK	1	74	21.20	21.20	21.27							
15	QPSK	36	0	20.21	20.25	20.24							
15	QPSK	36	20	20.27	20.27	20.19	22	0.6					
15	QPSK	75	0	20.28	20.41	20.18							
15	16QAM	1	0	20.23	20.26	20.21							
15	16QAM	1	37	20.32	20.33	20.18							
15	16QAM	1	74	20.12	20.16	20.20	22	0.6					
15	16QAM	36	0	19.18	19.21	19.28							
15	16QAM	36	20	19.25	19.34	19.32							
15	16QAM	36	39	19.05	19.22	19.15							
15	16QAM	75	0	19.15	19.29	19.18	21	1.6					
15	16QAM	1	0	19.29	19.34	19.32							
15	16QAM	1	37	19.18	19.31	19.27							
15	16QAM	1	74	19.16	19.36	19.22							
15	16QAM	36	0	18.25	18.31	18.18	20	2.6					
15	16QAM	36	20	18.14	18.21	18.10							
15	16QAM	36	39	18.22	18.31	18.21							
15	16QAM	75	0	18.18	18.32	18.21							
15	256QAM	1	0	18.15	18.27	18.25	18	4.6					
15	256QAM	1	37	18.21	18.35	18.28							
15	256QAM	1	74	18.23	18.32	18.18							
15	256QAM	36	0	18.14	18.26	18.21							
15	256QAM	36	20	18.27	18.27	18.15	18	4.6					
15	256QAM	36	39	18.14	18.26	18.21							
15	256QAM	75	0	18.19	18.36	18.24							
Channel													
Frequency (MHz)				37800	38800	38200			Time-up Int (dBm)	MPE (dB)			
10	QPSK	1	0	21.23	21.23	21.18	22.6	0					
10	QPSK	1	25	21.23	21.26	21.13							
10	QPSK	1	49	21.13	21.19	21.10							
10	QPSK	25	0	20.34	20.44	20.35							
10	QPSK	25	13	20.17	20.30	20.22	22	0.6					
10	QPSK	50	0	20.35	20.37	20.34							
10	QPSK	50	25	20.19	20.31	20.22							
10	QPSK	50	50	20.29	20.32	20.24							
10	16QAM	1	0	20.29	20.23	20.19	22	0.6					
10	16QAM	1	25	20.12	20.28	20.10							
10	16QAM	1	49	20.11	20.17	20.19							
10	16QAM	25	0	19.18	19.27	19.26							
10	16QAM	25	13	19.15	19.24	19.15	21	1.6					
10	16QAM	50	0	19.05	19.34	19.18							
10	16QAM	1	0	19.27	19.37	19.10							
10	16QAM	1	25	19.20	19.25	19.28							
10	16QAM	1	49	19.25	19.32	19.21	21	1.6					
10	16QAM	25	0	18.32	18.33	18.19							
10	16QAM	25	12	18.18	18.20	18.18							
10	16QAM	25	25	18.17	18.20	18.16							
10	16QAM	50	0	18.25	18.33	18.23	20	2.6					
10	256QAM	1	0	18.13	18.27	18.10							
10	256QAM	1	25	18.26	18.18	18.18							
10	256QAM	1	49	18.15	18.28	18.18							
10	256QAM	25	0	18.15	18.24	18.10	18	4.6					
10	256QAM	25	12	18.10	18.26	18.20							
10	256QAM	25	25	18.07	18.26	18.21							
10	256QAM	50	0	18.19	18.36	18.22							
Channel													
Frequency (MHz)				37775	38800	38225	Time-up Int (dBm)	MPE (dB)					
5	QPSK	1	0	21.25	21.25	21.19	22.6	0					
5	QPSK	1	12	21.22	21.25	21.11							
5	QPSK	1	24	21.16	21.20	21.21							
5	QPSK	12	0	20.25	20.44	20.36							
5	QPSK	12	7	20.34	20.35	20.25	22	0.6					
5	QPSK	12	13	20.17	20.34	20.19							
5	QPSK	25	0	20.29	20.37	20.33							
5	QPSK	25	12	20.26	20.22	20.16							
5	16QAM	1	0	20.29	20.23	20.14	22	0.6					
5	16QAM	1	12	20.12	20.28	20.14							
5	16QAM	1	24	20.13	20.14	20.14							
5	16QAM	12	7	19.07	19.30	19.15							
5	16QAM	12	13	19.01	19.24	19.20	21	1.6					
5	16QAM	25	0	19.23	19.26	19.20							
5	16QAM	1	0	19.28	19.35	19.21	20	2.6					
5	16QAM	1	12	19.17	19.28	19.19							
5	16QAM	1	24	19.14	19.14	19.14							
5	16QAM	12	13	18.18	18.18	18.18							
5	16QAM	25	0	18.20	18.25	18.29	18	4.6					
5	256QAM	1	0	18.16	18.29	18.21							
5	256QAM	1	12	18.23	18.20	18.20							
5	256QAM	1	24	18.18	18.19	18.17							
5	256QAM	12	0	18.28	18.29	18.23	18	4.6					
5	256QAM	12	7	18.15	18.28	18.20							
5	256QAM	12	13	18.15	18.23	18.20							
5	256QAM	25	0	18.19	18.36	18.22							
Channel													