



Full&Default Power Mode									
GSM850 A/B									
Item	Batt Average Power (dBm)			Transp. Limit	Frame Average Power (dBm)			Transp. Limit	
Tx Channel	126	166	261		126	166	261		
Frequency (MHz)	812.4	812.4	812.4	off	812.4	812.4	812.4	off	
DRM 1 Tx watt	32.61	32.65	32.97	33.55	33.81	33.85	33.97	34.50	
OPRS 1 Tx watt	32.66	32.64	32.61	33.55	33.58	33.64	33.61	34.55	
OPRS 2 Tx watt	29.18	29.46	29.49	30.55	29.18	29.66	29.49	34.50	
OPRS 3 Tx watt	28.00	28.30	28.15	29.00	29.74	24.10	23.89	34.74	
OPRS 4 Tx watt	25.00	25.02	25.97	27.00	23.56	23.00	23.97	34.00	
EDGE 1 Tx watt	25.38	25.72	25.42	26.55	18.38	18.72	18.42	17.85	
EDGE 2 Tx watt	25.75	23.67	23.72	24.50	17.76	17.67	17.72	18.50	
EDGE 3 Tx watt	23.14	22.77	23.54	23.50	18.35	18.51	18.25	19.24	
EDGE 4 Tx watt	20.45	20.65	20.48	21.50	17.48	17.85	17.48	18.55	
WCDMA V. A/B									
Item	WCDMA V. A/B			Transp. Limit					
Tx Channel	4152	4162	4253						
Rx Channel	4387	4467	4468	off					
Frequency (MHz)	836.4	836.4	846.6						
SOPP Rail 01	AMR 12.2kbit	23.82	24.72	23.56	25.00				
SOPP Rail 06	RMSC 12.2kbit	23.82	24.20	24.05	25.00				
SOPP Rail 6	HS-PA Subclass 1	22.80	23.27	23.15	24.00				
SOPP Rail 6	HS-PA Subclass 2	22.82	23.11	23.15	24.00				
SOPP Rail 6	HS-PA Subclass 3	22.34	22.73	22.81	23.55				
SOPP Rail 6	HS-PA Subclass 4	20.42	20.71	20.62	23.55				
SOPP Rail 6	DC-HS-PA Subclass 1	22.80	23.18	23.08	24.00				
SOPP Rail 6	DC-HS-PA Subclass 2	22.81	23.02	23.01	24.00				
SOPP Rail 6	DC-HS-PA Subclass 4	22.34	22.61	22.62	23.55				
SOPP Rail 6	DC-HS-PA Subclass 4	22.80	22.59	22.46	23.55				
SOPP Rail 6	HS-PA Subclass 1	22.84	23.11	23.05	24.00				
SOPP Rail 6	HS-PA Subclass 2	21.01	21.22	20.95	22.00				
SOPP Rail 6	HS-PA Subclass 3	21.80	22.12	22.01	23.00				
SOPP Rail 6	HS-PA Subclass 4	20.73	21.08	21.08	22.00				
SOPP Rail 6	HS-PA Subclass 5	22.89	23.23	23.12	24.00				



Band 5 Ant0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turnup time (ms)	MPE (dB)						
Channel														
800 806.5 844														
10	QPSK	1	0	22.60	22.73	22.68	24	0						
10	QPSK	1	25	22.51	22.58	22.54								
10	QPSK	1	49	22.50	22.64	20.95								
10	QPSK	25	0	21.69	21.72	21.62								
10	QPSK	25	12	21.44	21.53	21.44	23	1						
10	QPSK	25	25	21.53	21.66	21.61								
10	QPSK	50	0	21.61	21.65	21.59								
10	16QAM	1	0	21.59	21.67	21.61								
10	16QAM	1	25	21.41	21.52	21.38	23	1						
10	16QAM	1	49	21.54	21.65	21.45								
10	16QAM	25	0	20.47	20.55	20.43								
10	16QAM	25	12	20.35	20.49	20.35								
10	16QAM	25	25	20.50	20.66	20.53	22	2						
10	16QAM	50	0	20.54	20.66	20.59								
10	64QAM	1	0	20.51	20.59	20.54								
10	64QAM	1	25	20.45	20.51	20.47								
10	64QAM	1	49	20.55	20.65	20.53	21	3						
10	64QAM	25	0	19.47	19.52	19.40								
10	64QAM	25	12	19.52	19.63	19.59								
10	64QAM	25	25	19.44	19.49	19.35								
10	64QAM	50	0	19.50	19.62	19.54	19	5						
10	256QAM	1	0	17.46	17.54	17.44								
10	256QAM	1	25	17.44	17.45	17.40								
10	256QAM	1	49	17.49	17.62	17.52								
10	256QAM	25	0	17.40	17.50	17.44								
10	256QAM	25	12	17.50	17.63	17.50								
10	256QAM	25	25	17.50	17.56	17.44								
10	256QAM	50	0	17.61	17.67	17.54	19	5						
Channel														
20405 20525 20605														
5	QPSK	1	0	22.54	22.66	22.54					24	0		
5	QPSK	1	12	22.39	22.48	22.44								
5	QPSK	1	24	22.45	22.54	22.47								
5	QPSK	12	0	21.65	21.68	21.55								
5	QPSK	12	7	21.35	21.44	21.38	23	1						
5	QPSK	12	13	21.45	21.52	21.51								
5	QPSK	25	0	21.60	21.64	21.48								
5	16QAM	1	0	21.53	21.56	21.52								
5	16QAM	1	12	21.31	21.49	21.32	23	1						
5	16QAM	1	24	21.47	21.47	21.31								
5	16QAM	12	0	20.43	20.51	20.37								
5	16QAM	12	7	20.25	20.36	20.21								
5	16QAM	12	13	20.54	20.66	20.49	22	2						
5	16QAM	25	0	20.48	20.58	20.46								
5	64QAM	1	0	20.38	20.54	20.48								
5	64QAM	1	12	20.31	20.45	20.34								
5	64QAM	1	24	20.43	20.52	20.47	21	3						
5	64QAM	12	0	19.38	19.40	19.25								
5	64QAM	12	13	19.41	19.53	19.50								
5	64QAM	12	13	19.39	19.44	19.24								
5	64QAM	25	0	19.38	19.52	19.39	19	5						
5	256QAM	1	0	17.43	17.48	17.38								
5	256QAM	1	12	17.40	17.47	17.31								
5	256QAM	1	24	17.45	17.52	17.45								
5	256QAM	12	0	17.40	17.56	17.38	19	5						
5	256QAM	12	7	17.44	17.50	17.40								
5	256QAM	12	13	17.45	17.50	17.35								
5	256QAM	25	0	17.44	17.50	17.40								
Channel														
20415 20525 20605														
5	QPSK	1	0	22.51	22.63	22.54	24	0						
3	QPSK	1	8	22.42	22.53	22.41								
3	QPSK	1	14	22.38	22.60	22.51								
3	QPSK	8	0	21.66	21.68	21.56								
3	QPSK	8	7	21.39	21.43	21.34	23	1						
3	QPSK	8	7	21.40	21.55	21.57								
3	16QAM	1	0	21.56	21.57	21.48								
3	16QAM	1	0	21.49	21.55	21.52								
3	16QAM	1	8	21.34	21.41	21.31	23	1						
3	16QAM	1	14	21.42	21.51	21.39								
3	16QAM	8	0	20.41	20.49	20.39								
3	16QAM	8	4	20.21	20.40	20.21								
3	16QAM	8	7	20.32	20.51	20.47	22	2						
3	64QAM	15	0	20.48	20.61	20.50								
3	64QAM	1	0	20.47	20.44	20.45								
3	64QAM	1	8	20.33	20.40	20.33								
3	64QAM	1	14	20.43	20.62	20.43	21	3						
3	64QAM	8	0	19.35	19.40	19.33								
3	64QAM	8	4	19.38	19.50	19.33								
3	64QAM	8	7	19.38	19.39	19.23								
3	64QAM	15	0	19.37	19.54	19.46	19	5						
3	256QAM	1	0	17.38	17.41	17.34								
3	256QAM	1	8	17.37	17.38	17.27								
3	256QAM	1	14	17.40	17.57	17.37								
3	256QAM	8	0	17.26	17.41	17.26	19	5						
3	256QAM	8	4	17.39	17.59	17.47								
3	256QAM	8	7	17.40	17.52	17.40								
3	256QAM	15	0	17.47	17.60	17.46								
Channel														
20407 20525 20605														
1.4	QPSK	1	0	22.54	22.70	22.57	24	0						
1.4	QPSK	1	3	22.40	22.50	22.49								
1.4	QPSK	1	5	22.35	22.50	22.41								
1.4	QPSK	3	0	22.64	22.67	22.48								
1.4	QPSK	3	1	22.35	22.43	22.39	23	1						
1.4	QPSK	3	3	22.41	22.52	22.48								
1.4	QPSK	3	1	21.48	21.56	21.43								
1.4	16QAM	1	0	21.48	21.52	21.50								
1.4	16QAM	1	3	21.32	21.45	21.29	23	1						
1.4	16QAM	1	5	21.48	21.52	21.40								
1.4	16QAM	3	0	21.37	21.47	21.37								
1.4	16QAM	3	1	21.52	21.42	21.20								
1.4	16QAM	3	3	21.35	21.48	21.43	22	2						
1.4	16QAM	6	0	20.43	20.56	20.49								
1.4	64QAM	1	0	20.37	20.35	20.45								
1.4	64QAM	1	3	20.40	20.40	20.39								
1.4	64QAM	1	5	20.41	20.61	20.39	22	2						
1.4	64QAM	3	0	20.32	20.49	20.32								
1.4	64QAM	3	1	20.48	20.48	20.30								
1.4	64QAM	3	3	20.39	20.40	20.28								
1.4	64QAM	6	0	19.40	19.55	19.46	21	3						
1.4	256QAM	1	0	17.40	17.47	17.35								
1.4	256QAM	1	3	17.40	17.49	17.36								
1.4	256QAM	1	5	17.43	17.49	17.38								
1.4	256QAM	3	0	17.26	17.36	17.41	19	5						
1.4	256QAM	3	1	17.41	17.52	17.45								
1.4	256QAM	3	3	17.44	17.42	17.35								
1.4	256QAM	6	0	17.54	17.57	17.43	19	5						

Band 17 Ant0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPPE (dB)				
Channel												
Frequency (MHz)												
710 711 711												
10	QPSK	1	0	22.85	22.85	22.92	24	0				
10	QPSK	1	24	22.77	22.85	22.92						
10	QPSK	1	48	22.75	22.81	22.88						
10	QPSK	25	0	21.82	21.84	21.84						
10	QPSK	25	12	21.78	21.80	21.83	23	1				
10	QPSK	25	25	21.71	21.80	21.79						
10	QPSK	50	0	21.80	21.85	21.77						
10	16QAM	1	0	20.95	20.92	20.90						
10	16QAM	1	25	21.83	21.90	21.90	23	1				
10	16QAM	1	49	21.83	21.91	21.87						
10	16QAM	25	0	20.81	20.95	20.92						
10	16QAM	25	12	20.71	20.82	20.78						
10	16QAM	25	25	20.79	20.87	20.80	22	2				
10	16QAM	50	0	20.81	20.91	20.82						
10	64QAM	1	0	21.00	21.04	21.00						
10	64QAM	1	25	20.89	20.92	20.90		22	2			
10	64QAM	1	49	20.82	20.91	20.79						
10	64QAM	25	0	19.84	19.78	19.82						
10	64QAM	25	12	19.79	19.86	19.73						
10	64QAM	25	25	19.87	19.71	19.87	21	3				
10	64QAM	50	0	19.75	19.80	19.82						
10	256QAM	1	25	17.89	17.84	17.88						
10	256QAM	1	49	17.71	17.86	17.78		19	5			
10	256QAM	25	0	17.81	17.80	17.86						
10	256QAM	25	12	17.74	17.84	17.75						
10	256QAM	25	25	17.85	17.79	17.75	19	5				
10	256QAM	50	0	17.79	17.83	17.88						
Channel												
Frequency (MHz)												
706.5 710 713.5												
5	QPSK	1	0	22.71	22.85	22.83	24	0				
5	QPSK	1	12	22.70	22.71	22.71						
5	QPSK	1	24	22.68	22.75	22.61						
5	QPSK	12	0	21.76	21.90	21.80						
5	QPSK	12	7	21.67	21.79	21.71	23	1				
5	QPSK	12	13	21.65	21.75	21.69						
5	QPSK	25	0	21.67	21.77	21.64						
5	16QAM	1	0	21.98	21.97	21.92						
5	16QAM	1	12	21.89	21.93	21.84	23	1				
5	16QAM	1	24	21.78	21.80	21.75						
5	16QAM	12	0	20.67	20.91	20.77						
5	16QAM	12	7	20.64	20.70	20.64		22	2			
5	16QAM	12	13	20.71	20.72	20.70						
5	16QAM	25	0	20.75	20.78	20.78						
5	64QAM	1	0	20.90	20.95	20.90	23	2				
5	64QAM	1	12	20.80	20.92	20.84						
5	64QAM	1	24	20.88	20.91	20.89						
5	64QAM	12	0	19.83	19.86	19.81						
5	64QAM	12	7	19.83	19.83	19.84	21	3				
5	64QAM	12	13	19.90	19.92	19.93						
5	64QAM	25	0	19.81	19.78	19.77						
5	256QAM	1	0	17.84	17.82	17.76						
5	256QAM	1	12	17.75	17.85	17.75	19	5				
5	256QAM	1	24	17.88	17.75	17.83						
5	256QAM	12	0	17.76	17.71	17.74						
5	256QAM	12	7	17.80	17.75	17.83		19	5			
5	256QAM	12	13	17.87	17.85	17.71						
5	256QAM	25	0	17.72	17.88	17.76						

Band 26 for FCC Ant0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPPE (dB)				
Channel												
Frequency (MHz)												
821.5 831.5 841.5												
15	QPSK	1	0	22.58	22.77	22.67	24	0				
15	QPSK	1	37	22.47	22.57	22.52						
15	QPSK	1	74	22.39	22.63	22.54						
15	QPSK	36	0	21.51	21.63	21.60						
15	QPSK	36	20	21.50	21.58	21.50	23	1				
15	QPSK	36	36	21.40	21.54	21.46						
15	QPSK	75	0	21.59	21.67	21.62						
15	16QAM	1	0	21.72	21.80	21.70						
15	16QAM	1	37	21.56	21.71	21.63	23	1				
15	16QAM	1	74	21.55	21.68	21.63						
15	16QAM	36	0	20.49	20.52	20.48						
15	16QAM	36	20	20.68	20.73	20.62		22	2			
15	16QAM	36	39	20.64	20.67	20.63						
15	16QAM	75	0	20.50	20.58	20.52						
15	64QAM	1	0	20.68	20.72	20.69	22	2				
15	64QAM	1	37	20.55	20.64	20.54						
15	64QAM	1	74	20.65	20.70	20.72						
15	64QAM	36	0	19.54	19.65	19.59						
15	64QAM	36	20	19.52	19.74	19.61	21	3				
15	64QAM	36	39	19.54	19.68	19.54						
15	64QAM	75	0	19.50	19.64	19.51						
15	256QAM	1	0	17.52	17.63	17.57	19	5				
15	256QAM	1	37	17.56	17.61	17.55						
15	256QAM	1	74	17.59	17.67	17.57						
15	256QAM	36	0	17.52	17.63	17.57						
15	256QAM	36	20	17.65	17.72	17.65	19	5				
15	256QAM	36	39	17.52	17.65	17.61						
15	256QAM	75	0	17.61	17.68	17.57						
Channel												
Frequency (MHz)												
819 831.5 844												
10	QPSK	1	0	22.49	22.72	22.60	24	0				
10	QPSK	1	25	22.39	22.44	22.43						
10	QPSK	1	49	22.55	22.61	22.49						
10	QPSK	25	0	21.37	21.54	21.37						
10	QPSK	25	12	21.40	21.48	21.41	23	1				
10	QPSK	25	25	21.34	21.48	21.41						
10	QPSK	50	0	21.34	21.52	21.48						
10	16QAM	1	0	21.61	21.68	21.65						
10	16QAM	1	25	21.52	21.67	21.54	23	1				
10	16QAM	1	49	21.44	21.62	21.46						
10	16QAM	25	0	20.42	20.58	20.38						
10	16QAM	25	12	20.64	20.59	20.49		22	2			
10	16QAM	25	25	20.59	20.58	20.57						
10	16QAM	50	0	20.44	20.53	20.46						
10	64QAM	1	0	20.55	20.60	20.51	23	2				
10	64QAM	1	25	20.51	20.55	20.48						
10	64QAM	1	49	20.57	20.62	20.57						
10	64QAM	25	0	19.39	19.58	19.52						
10	64QAM	25	12	19.45	19.59	19.48	21	3				
10	64QAM	25	25	19.53	19.54	19.43						
10	64QAM	50	0	19.41	19.58	19.40						
10	256QAM	1	0	17.52	17.62	17.55						
10	256QAM	1	25	17.52	17.55	17.48	19	5				
10	256QAM	1	49	17.45	17.63	17.44						
10	256QAM	25	0	17.42	17.52	17.48						
10	256QAM	25	12	17.51	17.67	17.52		19	5			
10	256QAM	25	25	17.43	17.52	17.46						
10	256QAM	50	0	17.53	17.60	17.46						
Channel												
Frequency (MHz)												
815.5 831.5 847.5												
5	QPSK	1	0	22.47	22.64	22.57	24	0				
5	QPSK	1	12	22.36	22.47	22.48						
5	QPSK	1	24	22.55	22.61	22.49						
5	QPSK	12	0	21.37	21.51	21.46						
5	QPSK	12	7	21.40	21.47	21.45	23	1				
5	QPSK	12	14	21.34	21.48	21.41						
5	QPSK	25	0	21.45	21.61	21.44						
5	16QAM	1	0	21.63	21.68	21.68						
5	16QAM	1	12	21.52	21.67	21.54	23	1				
5	16QAM	1	24	21.47	21.65	21.48						
5	16QAM	12	0	20.37	20.53	20.31						
5	16QAM	12	7	20.59	20.59	20.51		22	2			
5	16QAM	12	14	20.46	20.53	20.42						
5	16QAM	25	0	20.46	20.53	20.42						
5	64QAM	1	0	20.57	20.68	20.55	22	2				
5	64QAM	1	12	20.44	20.54	20.46						
5	64QAM	1	24	20.37	20.48	20.35						
5	64QAM	12	0	19.57	19.63	19.41						
5	64QAM	12	7	19.51	19.63	19.53	21	3				
5	64QAM	12	14	19.56	19.59	19.41						
5	64QAM	25	0	17.49	17.67	17.54						
5	256QAM	1	0	17.45	17.48	17.47						
5	256QAM	1	12	17.45	17.48	17.47	19	5				
5	256QAM	1	24	17.38	17.48	17.41						
5	256QAM	12	0	17.42	17.53	17.45						
5	256QAM	12	7	17.54	17.69	17.51		19	5			
5	256QAM	12	14	17.45	17.53	17.45						
5	256QAM	25	0	17.46	17.62	17.46						
Channel												
Frequency (MHz)												
815.5 831.5 847.5												
3	QPSK	1	0	22.46	22.64	22.57	24	0				
3	QPSK	1	8	22.33	22.53	22.43						
3	QPSK	1	16	22.57	22.63	22.48						
3	QPSK	8	0	21.47	21.54	21.43						
3	QPSK	8	4	21.46	21.44	21.43	23	1				
3	QPSK	8	8	21.45	21.45	21.43						
3	QPSK	16	0	21.49	21.50	21.46						
3	16QAM	1	0	21.59	21.68	21.58						
3	16QAM	1	8	21.60	21.68	21.60	23	1				
3	16QAM	1	16	21.49	21.57	21.45						
3	16QAM	8	0	20.35	20.59	20.35						
3	16QAM	8	4	20.60	20.60	20.48		22	2			
3	16QAM	8	8	20.57	20.57	20.51						
3	16QAM	16	0	20.44	20.47	20.41						
3	64QAM	1	0	20.55	20.63	20.53	22	2				
3	64QAM	1	8	20.46	20.60	20.44						
3	64QAM	1	16	20.51	20.64	20.57						
3	64QAM	8	0	19.48	19.68	19.52						
3	64QAM	8	4	19.48	19.68	19.52	21	3				
3	64QAM	8	8	19.57	19.61	19.43						
3	64QAM	16	0	19.53	19.63	19.48						
3	256QAM	1	0	17.52	17.59	17.48						
3	256QAM	1	8	17.44	17.53	17.44	19	5				
3	256QAM	1	16	17.51	17.61	17.43						
3	256QAM	8	0	17.39	17.54	17.43						
3	256QAM	8	4	17.53	17.69	17.51		19	5			
3	256QAM	8	8	17.45	17.53	17.45						
3	256QAM	16	0	17.47	17.56	17.54						
Channel												
Frequency (MHz)												
26097 26098 27073												
1.4	QPSK	1	0	22.51	22.66	22.62	24	0				
1.4	QPSK	1	8	22.36	22.54	22.46						
1.4	QPSK	1	16	22.49	22.54	22.51						
1.4	QPSK	8	0	21.54	21.54	21.53						
1.4	QPSK	8	22	22.39	22.52	22.42	23	1				
1.4	QPSK	8	44	22.46	22.46	22.46						
1.4	QPSK	16	0	21.55	21.64	21.57						
1.4	16QAM	1	0	21.68	21.68	21.64						
1.4	16QAM	1	8	21.63	21.68	21.64	23	1				
1.4	16QAM	1	16	21.58	21.68	21.64						
1.4	16QAM	8	0	20.41	20.45	20.40						
1.4	16QAM	8	22	20.58	20.58	20.48		22	2			
1.4	16QAM	8	44	20.47	20.54	20.49						
1.4	16QAM	16	0	20.53	20.66	20.55						
1.4	64QAM	1	0	20.57	20.67	20.58	22	2				
1.4	64QAM	1	8	20.49	20.62	20.48						
1.4	64QAM	1	16	20.57	20.62	20.48						
1.4	64QAM	8	0	17.54	17.61	17.48						
1.4	256QAM	1	0	17.51	17.68	17.42	19	5				
1.4	256QAM	1	8	17.47	17.63	17.42						
1.4	256QAM	1	16	17.58	17.69	17.58						
1.4	256QAM	8	0	17.57	17.68	17.58		19	5			
1.4	256QAM	8	22	17.48	17.48	17.52						
1.4	256QAM	16	0	17.58	17.69	17.58						
1.4	256QAM	16	8	17.51	17.50	17.53						

Band 41 Ant0												
RW [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 limit (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				39750	40188	40620	41058	41490				
20	QPSK	1	0	22.12	22.24	22.36	22.27	22.27	22.27			
20	QPSK	1	40	22.03	21.87	22.01	21.96	22.00				0
20	QPSK	1	80	22.02	22.00	22.10	22.06	22.10				
20	QPSK	50	0	21.08	21.11	21.25	21.10	21.22				
20	QPSK	50	24	21.01	20.97	21.01	20.96	21.02				22
20	QPSK	50	48	20.90	21.03	20.98	20.94	21.02				1
20	QPSK	100	0	20.92	20.99	21.05	21.00	21.04				
20	16QAM	1	0	21.00	20.96	21.09	21.06	21.04				
20	16QAM	1	40	20.92	20.86	20.94	20.90	20.91				22
20	16QAM	1	80	20.82	20.78	20.89	20.77	20.89				
20	16QAM	50	0	19.96	19.87	20.06	19.86	19.91				
20	16QAM	50	24	20.02	20.00	20.12	20.00	20.04				21
20	16QAM	50	50	19.83	19.89	19.95	19.80	19.89				
20	16QAM	100	0	20.03	20.04	20.14	19.99	20.05				
20	16QAM	100	0	20.12	20.15	20.26	20.15	20.16				
20	16QAM	1	40	20.04	19.99	20.12	20.01	19.95				21
20	16QAM	1	80	20.11	20.05	20.20	20.15	20.15				
20	16QAM	50	0	19.95	19.94	19.97	19.96	19.93				
20	16QAM	50	24	19.83	19.86	19.91	19.76	19.81				
20	16QAM	50	50	19.89	19.90	19.92	19.84	19.84				
20	256QAM	1	0	17.04	17.00	17.10	17.05	17.00				
20	256QAM	1	40	16.91	16.88	16.84	16.91	16.91				18
20	256QAM	1	80	17.05	16.99	17.11	16.99	16.98				
20	256QAM	50	0	16.94	16.99	16.99	16.99	16.99				
20	256QAM	50	24	16.80	16.75	16.84	16.81	16.78				18
20	256QAM	50	50	16.75	16.77	16.84	16.73	16.75				
20	256QAM	100	0	16.83	16.82	16.87	16.73	16.75				
Channel												
Frequency (MHz)				39750	40173	40620	41058	41515				
				22.11	22.29	22.30	22.27	22.22		Turn-up limit (dBm)	MPR (dB)	
16	QPSK	1	0	22.11	22.29	22.30	22.27	22.22				
16	QPSK	1	37	21.87	21.91	21.95	21.89	21.94				23
16	QPSK	1	74	21.86	21.94	22.04	22.00	22.09				
16	QPSK	36	0	21.00	21.09	21.19	21.04	21.16				
16	QPSK	36	20	20.95	20.91	20.95	20.89	20.96				22
16	QPSK	36	40	20.92	20.97	20.97	20.97	20.97				1
16	QPSK	75	0	20.86	20.93	20.99	20.94	20.98				
16	16QAM	1	0	20.94	20.93	21.03	21.00	20.98				
16	16QAM	1	40	20.95	20.96	20.96	20.94	20.78				22
16	16QAM	1	74	20.78	20.73	20.83	20.71	20.74				
16	16QAM	36	0	19.89	19.81	20.00	19.80	19.85				
16	16QAM	36	20	19.86	19.84	19.92	19.84	19.87				21
16	16QAM	36	39	19.77	19.82	19.89	19.75	19.83				2
16	16QAM	75	0	19.97	19.98	20.05	19.94	20.00				
16	16QAM	1	0	20.04	20.13	20.20	20.10	20.07				
16	16QAM	1	37	19.98	19.93	20.05	19.92	19.89				21
16	16QAM	1	74	20.05	19.99	20.19	20.08	20.04				2
16	16QAM	36	0	19.89	19.87	19.91	19.80	19.86				
16	16QAM	36	20	18.79	18.80	18.85	18.70	18.75				
16	16QAM	36	40	18.82	18.82	18.82	18.82	18.82				20
16	16QAM	75	0	19.07	19.05	19.03	19.04	19.05				3
16	256QAM	1	0	18.98	18.94	17.04	16.99	18.94				
16	256QAM	1	40	19.05	18.92	18.95	18.95	18.95				18
16	256QAM	1	74	18.99	18.92	17.05	18.93	18.92				5
16	256QAM	36	0	18.93	18.89	18.94	18.94	18.90				
16	256QAM	36	20	18.94	18.72	18.88	18.75	18.72				18
16	256QAM	36	39	18.84	18.71	18.78	18.67	18.69				5
16	256QAM	75	0	18.97	18.96	18.96	18.96	18.96				
Channel												
Frequency (MHz)				39750	40160	40620	41058	41540				
				22.11	22.28	22.30	22.27	22.22		Turn-up limit (dBm)	MPR (dB)	
16	QPSK	1	0	22.11	22.28	22.30	22.27	22.22				
16	QPSK	1	25	21.87	21.91	21.95	21.89	21.94				23
16	QPSK	1	49	21.86	21.94	22.04	22.00	22.09				
16	QPSK	25	0	21.01	21.05	21.19	21.04	21.16				
16	QPSK	25	12	20.95	20.90	20.95	20.89	20.96				
16	QPSK	25	25	20.93	20.97	21.02	20.88	20.96				22
16	QPSK	50	0	20.86	20.93	20.98	20.94	20.98				1
16	16QAM	1	0	20.93	20.93	21.04	21.00	20.98				
16	16QAM	1	25	20.78	20.80	20.88	20.94	20.75				22
16	16QAM	1	49	20.79	20.77	20.83	20.71	20.74				1
16	16QAM	25	0	19.90	19.81	20.00	19.80	19.85				
16	16QAM	25	14	19.96	19.93	20.08	19.96	19.98				
16	16QAM	25	19	19.77	19.83	19.89	19.75	19.84				
16	16QAM	50	0	19.97	19.98	20.05	19.94	20.00				
16	16QAM	1	25	19.98	19.93	20.06	19.95	19.89				21
16	16QAM	1	49	20.05	19.99	20.14	20.09	20.04				
16	16QAM	25	0	18.89	18.88	19.01	18.91	18.97				
16	16QAM	25	12	18.77	18.79	18.85	18.70	18.75				20
16	16QAM	25	25	18.83	18.84	18.88	18.78	18.78				3
16	16QAM	50	0	18.97	18.95	19.04	18.95	18.96				
16	256QAM	1	0	16.99	16.94	17.05	16.99	16.95				
16	256QAM	1	25	16.95	16.92	16.99	16.85	16.95				18
16	256QAM	1	49	16.89	16.89	17.05	16.93	16.92				5
16	256QAM	25	0	16.92	16.89	16.95	16.94	16.89				
16	256QAM	25	0	16.74	16.73	16.80	16.75	16.72				18
16	256QAM	25	25	16.84	16.70	16.78	16.67	16.69				
16	256QAM	50	0	16.88	16.86	16.88	16.96	16.97				
Channel												
Frequency (MHz)				39750	40146	40620	41058	41565				
				22.11	22.28	22.30	22.27	22.22		Turn-up limit (dBm)	MPR (dB)	
16	QPSK	1	0	22.11	22.28	22.30	22.27	22.22				
16	QPSK	1	12	21.68	21.91	21.95	21.90	21.84				23
16	QPSK	1	24	21.66	21.94	22.04	22.00	22.09				
16	QPSK	12	0	21.00	21.05	21.19	21.04	21.16				
16	QPSK	12	7	20.95	20.90	20.95	20.89	20.96				
16	QPSK	12	14	20.93	20.97	21.02	20.88	20.96				22
16	QPSK	25	0	20.86	20.93	20.99	20.94	20.98				
16	16QAM	1	0	20.90	20.90	21.03	21.00	20.98				
16	16QAM	1	12	20.84	20.88	21.03	20.98	20.96				22
16	16QAM	1	24	20.78	20.73	20.83	20.71	20.73				
16	16QAM	12	0	19.90	19.86	20.05	19.80	19.85				
16	16QAM	12	7	19.95	19.94	20.06	19.94	19.99				21
16	16QAM	12	13	19.77	19.83	19.89	19.74	19.83				
16	16QAM	25	0	19.90	19.86	19.95	19.84	19.90				
16	16QAM	1	12	19.90	19.90	20.06	19.95	19.89				21
16	16QAM	24	0	19.82	19.85	20.14	20.09	20.04				
16	16QAM	12	0	18.89	18.88	19.02	18.90	18.93				
16	16QAM	12	7	18.77	18.78	18.88	18.70	18.75				20
16	16QAM	12	13	18.82	18.83	18.85	18.78	18.78				
16	16QAM	25	0	18.97	18.95	19.04	18.94	18.96				
16	256QAM	1	0	16.98	16.94	17.05	16.99	16.95				
16	256QAM	1	12	16.90	16.82	16.88	16.85	16.84				18
16	256QAM	1	24	16.89	16.83	17.05	16.93	16.93				5
16	256QAM	12	0	16.92	16.89	16.95	16.94	16.89				
16	256QAM	12	7	16.74	16.73	16.88	16.70	16.72				
16	256QAM	12	13	16.84	16.71	16.78	16.67	16.70				
16	256QAM	25	0	16.88	16.86	16.88	16.96	16.98				

Band 41 HPUE Ant0												
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 limit (dBm)	MPR (dB)	
Channel												
Frequency [MHz]				36750	40185	46320	41055	41860				
20	QPSK <td>1</td> <td>0</td> <td>24.16</td> <td>24.21</td> <td>24.26</td> <td>24.30</td> <td>24.35</td> <td>24.37</td> <td>24.5</td> <td>0</td> <td></td>	1	0	24.16	24.21	24.26	24.30	24.35	24.37	24.5	0	
20	QPSK <td>1</td> <td>49</td> <td>24.11</td> <td>24.21</td> <td>24.23</td> <td>24.30</td> <td>24.30</td> <td>24.32</td> <td></td> <td></td> <td></td>	1	49	24.11	24.21	24.23	24.30	24.30	24.32			
20	QPSK <td>1</td> <td>98</td> <td>24.08</td> <td>24.26</td> <td>24.22</td> <td>24.32</td> <td>24.32</td> <td>24.37</td> <td></td> <td></td> <td></td>	1	98	24.08	24.26	24.22	24.32	24.32	24.37			
20	QPSK <td>1</td> <td>147</td> <td>24.21</td> <td>24.26</td> <td>24.28</td> <td>24.30</td> <td>24.30</td> <td>24.32</td> <td></td> <td></td> <td></td>	1	147	24.21	24.26	24.28	24.30	24.30	24.32			
20	QPSK <td>50</td> <td>24</td> <td>24.16</td> <td>24.26</td> <td>24.30</td> <td>24.35</td> <td>24.35</td> <td>24.37</td> <td>24.5</td> <td>0</td> <td></td>	50	24	24.16	24.26	24.30	24.35	24.35	24.37	24.5	0	
20	QPSK <td>50</td> <td>73</td> <td>24.08</td> <td>24.26</td> <td>24.22</td> <td>24.32</td> <td>24.32</td> <td>24.37</td> <td></td> <td></td> <td></td>	50	73	24.08	24.26	24.22	24.32	24.32	24.37			
20	QPSK <td>100</td> <td>0</td> <td>24.15</td> <td>24.12</td> <td>24.20</td> <td>24.16</td> <td>24.20</td> <td>24.20</td> <td></td> <td></td> <td></td>	100	0	24.15	24.12	24.20	24.16	24.20	24.20			
20	16QAM <td>1</td> <td>0</td> <td>24.18</td> <td>24.22</td> <td>24.24</td> <td>24.24</td> <td>24.24</td> <td>24.24</td> <td>24.5</td> <td>0</td> <td></td>	1	0	24.18	24.22	24.24	24.24	24.24	24.24	24.5	0	
20	16QAM <td>1</td> <td>49</td> <td>24.08</td> <td>24.20</td> <td>24.21</td> <td>24.22</td> <td>24.22</td> <td>24.21</td> <td></td> <td></td> <td></td>	1	49	24.08	24.20	24.21	24.22	24.22	24.21			
20	16QAM <td>1</td> <td>99</td> <td>24.00</td> <td>23.98</td> <td>23.98</td> <td>23.99</td> <td>24.01</td> <td>24.01</td> <td></td> <td></td> <td></td>	1	99	24.00	23.98	23.98	23.99	24.01	24.01			
20	16QAM <td>50</td> <td>0</td> <td>23.15</td> <td>23.13</td> <td>23.21</td> <td>23.08</td> <td>23.12</td> <td>23.12</td> <td></td> <td></td> <td></td>	50	0	23.15	23.13	23.21	23.08	23.12	23.12			
20	16QAM <td>50</td> <td>25</td> <td>23.20</td> <td>23.15</td> <td>23.23</td> <td>23.10</td> <td>23.18</td> <td>23.18</td> <td></td> <td></td> <td></td>	50	25	23.20	23.15	23.23	23.10	23.18	23.18			
20	16QAM <td>50</td> <td>50</td> <td>23.10</td> <td>23.11</td> <td>23.19</td> <td>22.99</td> <td>23.11</td> <td>23.11</td> <td>24</td> <td>0.5</td> <td></td>	50	50	23.10	23.11	23.19	22.99	23.11	23.11	24	0.5	
20	16QAM <td>100</td> <td>0</td> <td>22.08</td> <td>22.22</td> <td>22.34</td> <td>22.00</td> <td>22.27</td> <td>22.27</td> <td></td> <td></td> <td></td>	100	0	22.08	22.22	22.34	22.00	22.27	22.27			
20	16QAM <td>100</td> <td>25</td> <td>22.30</td> <td>22.45</td> <td>22.57</td> <td>22.16</td> <td>22.43</td> <td>22.43</td> <td></td> <td></td> <td></td>	100	25	22.30	22.45	22.57	22.16	22.43	22.43			
20	64QAM <td>1</td> <td>49</td> <td>23.21</td> <td>23.22</td> <td>23.28</td> <td>23.23</td> <td>23.12</td> <td>23.12</td> <td>24</td> <td>0.5</td> <td></td>	1	49	23.21	23.22	23.28	23.23	23.12	23.12	24	0.5	
20	64QAM <td>1</td> <td>98</td> <td>23.12</td> <td>23.13</td> <td>23.19</td> <td>23.07</td> <td>23.13</td> <td>23.13</td> <td></td> <td></td> <td></td>	1	98	23.12	23.13	23.19	23.07	23.13	23.13			
20	64QAM <td>50</td> <td>0</td> <td>22.21</td> <td>22.17</td> <td>22.31</td> <td>22.08</td> <td>22.12</td> <td>22.12</td> <td></td> <td></td> <td></td>	50	0	22.21	22.17	22.31	22.08	22.12	22.12			
20	64QAM <td>50</td> <td>25</td> <td>22.11</td> <td>22.07</td> <td>22.15</td> <td>21.97</td> <td>22.01</td> <td>22.01</td> <td>23</td> <td>1.5</td> <td></td>	50	25	22.11	22.07	22.15	21.97	22.01	22.01	23	1.5	
20	64QAM <td>100</td> <td>0</td> <td>22.12</td> <td>22.09</td> <td>22.20</td> <td>21.98</td> <td>22.04</td> <td>22.04</td> <td></td> <td></td> <td></td>	100	0	22.12	22.09	22.20	21.98	22.04	22.04			
20	64QAM <td>100</td> <td>0</td> <td>22.21</td> <td>22.20</td> <td>22.32</td> <td>22.00</td> <td>22.20</td> <td>22.20</td> <td></td> <td></td> <td></td>	100	0	22.21	22.20	22.32	22.00	22.20	22.20			
20	256QAM <td>1</td> <td>0</td> <td>20.20</td> <td>20.20</td> <td>20.32</td> <td>20.22</td> <td>20.19</td> <td>20.19</td> <td>21</td> <td>3.5</td> <td></td>	1	0	20.20	20.20	20.32	20.22	20.19	20.19	21	3.5	
20	256QAM <td>1</td> <td>49</td> <td>20.12</td> <td>20.10</td> <td>20.20</td> <td>20.14</td> <td>20.11</td> <td>20.11</td> <td></td> <td></td> <td></td>	1	49	20.12	20.10	20.20	20.14	20.11	20.11			
20	256QAM <td>1</td> <td>99</td> <td>20.33</td> <td>20.26</td> <td>20.38</td> <td>20.13</td> <td>20.17</td> <td>20.17</td> <td></td> <td></td> <td></td>	1	99	20.33	20.26	20.38	20.13	20.17	20.17			
20	256QAM <td>50</td> <td>0</td> <td>20.18</td> <td>20.18</td> <td>20.28</td> <td>20.17</td> <td>20.16</td> <td>20.16</td> <td></td> <td></td> <td></td>	50	0	20.18	20.18	20.28	20.17	20.16	20.16			
20	256QAM <td>50</td> <td>24</td> <td>19.99</td> <td>20.07</td> <td>20.13</td> <td>20.07</td> <td>19.96</td> <td>19.96</td> <td>21</td> <td>3.5</td> <td></td>	50	24	19.99	20.07	20.13	20.07	19.96	19.96	21	3.5	
20	256QAM <td>50</td> <td>50</td> <td>19.84</td> <td>19.90</td> <td>20.00</td> <td>19.89</td> <td>19.99</td> <td>19.99</td> <td></td> <td></td> <td></td>	50	50	19.84	19.90	20.00	19.89	19.99	19.99			
20	256QAM <td>100</td> <td>0</td> <td>20.15</td> <td>20.15</td> <td>20.27</td> <td>20.22</td> <td>20.22</td> <td>20.21</td> <td></td> <td></td> <td></td>	100	0	20.15	20.15	20.27	20.22	20.22	20.21			
Channel				36725	40173	46306	41060	41815				
Frequency [MHz]				24.13	24.13	24.13	24.13	24.13				
15	QPSK <td>1</td> <td>0</td> <td>24.08</td> <td>24.17</td> <td>24.13</td> <td>24.24</td> <td>24.24</td> <td>24.09</td> <td>24.5</td> <td>0</td> <td></td>	1	0	24.08	24.17	24.13	24.24	24.24	24.09	24.5	0	
15	QPSK <td>1</td> <td>37</td> <td>24.05</td> <td>24.20</td> <td>24.15</td> <td>24.08</td> <td>24.08</td> <td>24.08</td> <td></td> <td></td> <td></td>	1	37	24.05	24.20	24.15	24.08	24.08	24.08			
15	QPSK <td>1</td> <td>74</td> <td>24.03</td> <td>24.02</td> <td>24.11</td> <td>24.03</td> <td>24.08</td> <td>24.08</td> <td></td> <td></td> <td></td>	1	74	24.03	24.02	24.11	24.03	24.08	24.08			
15	QPSK <td>1</td> <td>111</td> <td>24.09</td> <td>24.10</td> <td>24.12</td> <td>24.10</td> <td>24.10</td> <td>24.10</td> <td></td> <td></td> <td></td>	1	111	24.09	24.10	24.12	24.10	24.10	24.10			
15	QPSK <td>25</td> <td>20</td> <td>24.02</td> <td>24.22</td> <td>24.17</td> <td>24.03</td> <td>24.04</td> <td>24.04</td> <td>24.5</td> <td>0</td> <td></td>	25	20	24.02	24.22	24.17	24.03	24.04	24.04	24.5	0	
15	QPSK <td>25</td> <td>45</td> <td>24.04</td> <td>24.16</td> <td>24.11</td> <td>24.03</td> <td>24.11</td> <td>24.11</td> <td></td> <td></td> <td></td>	25	45	24.04	24.16	24.11	24.03	24.11	24.11			
15	QPSK <td>75</td> <td>0</td> <td>24.08</td> <td>24.07</td> <td>24.15</td> <td>24.08</td> <td>24.09</td> <td>24.09</td> <td></td> <td></td> <td></td>	75	0	24.08	24.07	24.15	24.08	24.09	24.09			
15	16QAM <td>1</td> <td>0</td> <td>24.05</td> <td>24.13</td> <td>24.19</td> <td>24.09</td> <td>24.13</td> <td>24.13</td> <td>24.5</td> <td>0</td> <td></td>	1	0	24.05	24.13	24.19	24.09	24.13	24.13	24.5	0	
15	16QAM <td>1</td> <td>37</td> <td>24.03</td> <td>24.10</td> <td>24.15</td> <td>24.03</td> <td>24.05</td> <td>24.05</td> <td></td> <td></td> <td></td>	1	37	24.03	24.10	24.15	24.03	24.05	24.05			
15	16QAM <td>1</td> <td>74</td> <td>23.86</td> <td>23.94</td> <td>23.99</td> <td>23.85</td> <td>23.95</td> <td>23.95</td> <td></td> <td></td> <td></td>	1	74	23.86	23.94	23.99	23.85	23.95	23.95			
15	16QAM <td>25</td> <td>0</td> <td>23.11</td> <td>23.07</td> <td>23.08</td> <td>22.98</td> <td>23.01</td> <td>23.01</td> <td></td> <td></td> <td></td>	25	0	23.11	23.07	23.08	22.98	23.01	23.01			
15	16QAM <td>25</td> <td>25</td> <td>23.10</td> <td>23.10</td> <td>23.20</td> <td>23.03</td> <td>23.10</td> <td>23.10</td> <td>24</td> <td>0.5</td> <td></td>	25	25	23.10	23.10	23.20	23.03	23.10	23.10	24	0.5	
15	16QAM <td>50</td> <td>36</td> <td>22.02</td> <td>22.97</td> <td>23.10</td> <td>22.90</td> <td>23.01</td> <td>23.01</td> <td></td> <td></td> <td></td>	50	36	22.02	22.97	23.10	22.90	23.01	23.01			
15	16QAM <td>50</td> <td>61</td> <td>22.16</td> <td>22.22</td> <td>22.30</td> <td>22.17</td> <td>22.22</td> <td>22.22</td> <td></td> <td></td> <td></td>	50	61	22.16	22.22	22.30	22.17	22.22	22.22			
15	64QAM <td>1</td> <td>0</td> <td>23.21</td> <td>23.30</td> <td>23.39</td> <td>23.28</td> <td>23.18</td> <td>23.18</td> <td></td> <td></td> <td></td>	1	0	23.21	23.30	23.39	23.28	23.18	23.18			
15	64QAM <td>1</td> <td>37</td> <td>23.13</td> <td>23.11</td> <td>23.18</td> <td>23.12</td> <td>23.07</td> <td>23.07</td> <td>24</td> <td>0.5</td> <td></td>	1	37	23.13	23.11	23.18	23.12	23.07	23.07	24	0.5	
15	64QAM <td>1</td> <td>74</td> <td>23.23</td> <td>23.27</td> <td>23.33</td> <td>23.24</td> <td>23.23</td> <td>23.23</td> <td></td> <td></td> <td></td>	1	74	23.23	23.27	23.33	23.24	23.23	23.23			
15	64QAM <td>36</td> <td>0</td> <td>22.17</td> <td>22.05</td> <td>22.23</td> <td>22.03</td> <td>22.05</td> <td>22.05</td> <td></td> <td></td> <td></td>	36	0	22.17	22.05	22.23	22.03	22.05	22.05			
15	64QAM <td>36</td> <td>25</td> <td>22.18</td> <td>22.03</td> <td>22.60</td> <td>21.93</td> <td>22.01</td> <td>22.01</td> <td>23</td> <td>1.5</td> <td></td>	36	25	22.18	22.03	22.60	21.93	22.01	22.01	23	1.5	
15	64QAM <td>50</td> <td>22</td> <td>22.07</td> <td>22.01</td> <td>22.10</td> <td>21.93</td> <td>22.01</td> <td>22.01</td> <td></td> <td></td> <td></td>	50	22	22.07	22.01	22.10	21.93	22.01	22.01			
15	64QAM <td>75</td> <td>0</td> <td>22.14</td> <td>22.21</td> <td>22.23</td> <td>22.14</td> <td>22.10</td> <td>22.10</td> <td></td> <td></td> <td></td>	75	0	22.14	22.21	22.23	22.14	22.10	22.10			
15	256QAM <td>1</td> <td>37</td> <td>20.04</td> <td>19.99</td> <td>20.14</td> <td>20.04</td> <td>20.05</td> <td>20.05</td> <td>21</td> <td>3.5</td> <td></td>	1	37	20.04	19.99	20.14	20.04	20.05	20.05	21	3.5	
15	256QAM <td>1</td> <td>74</td> <td>20.25</td> <td>20.21</td> <td>20.31</td> <td>20.03</td> <td>20.03</td> <td>20.03</td> <td></td> <td></td> <td></td>	1	74	20.25	20.21	20.31	20.03	20.03	20.03			
15	256QAM <td>25</td> <td>0</td> <td>19.99</td> <td>19.99</td> <td>19.99</td> <td>19.99</td> <td>19.99</td> <td>19.99</td> <td></td> <td></td> <td></td>	25	0	19.99	19.99	19.99	19.99	19.99	19.99			
15	256QAM <td>36</td> <td>20</td> <td>19.89</td> <td>19.98</td> <td>19.99</td> <td>19.85</td> <td>19.84</td> <td>19.84</td> <td>21</td> <td>3.5</td> <td></td>	36	20	19.89	19.98	19.99	19.85	19.84	19.84	21	3.5	
15	256QAM <td>50</td> <td>28</td> <td>19.80</td> <td>19.81</td> <td>20.06</td> <td>19.81</td> <td>19.85</td> <td>19.85</td> <td></td> <td></td> <td></td>	50	28	19.80	19.81	20.06	19.81	19.85	19.85			
15	256QAM <td>75</td> <td>0</td> <td>19.97</td> <td>19.97</td> <td>20.10</td> <td>19.97</td> <td>19.98</td> <td>19.98</td> <td></td> <td></td> <td></td>	75	0	19.97	19.97	20.10	19.97	19.98	19.98			
Channel				36700	40166	46306	41060	41860				
Frequency [MHz]				24.08	24.14	24.14	24.14	24.14				
15	QPSK <td>1</td> <td>0</td> <td>24.08</td> <td>24.17</td> <td>24.13</td> <td>24.24</td> <td>24.24</td> <td>24.02</td> <td>24.5</td> <td>0</td> <td></td>	1	0	24.08	24.17	24.13	24.24	24.24	24.02	24.5	0	
15	QPSK <td>1</td> <td>25</td> <td>23.88</td> <td>24.07</td> <td>24.15</td> <td>24.06</td> <td>24.06</td> <td>24.06</td> <td></td> <td></td> <td></td>	1	25	23.88	24.07	24.15	24.06	24.06	24.06			
15	QPSK <td>1</td> <td>49</td> <td>24.07</td> <td>24.12</td> <td>24.13</td> <td>24.06</td> <td>24.06</td> <td>24.06</td> <td></td> <td></td> <td></td>	1	49	24.07	24.12	24.13	24.06	24.06	24.06			
15	QPSK <td>25</td> <td>0</td> <td>24.10</td> <td>24.12</td> <td>24.20</td> <td>24.10</td> <td>24.09</td> <td>24.09</td> <td></td> <td></td> <td></td>	25	0	24.10	24.12	24.20	24.10	24.09	24.09			
15	QPSK <td>25</td> <td>12</td> <td>24.03</td> <td>24.12</td> <td>24.20</td> <td>24.11</td> <td>24.11</td> <td>24.11</td> <td>24.5</td> <td>0</td> <td></td>	25	12	24.03	24.12	24.20	24.11	24.11	24.11	24.5	0	
15	QPSK <td>25</td> <td>37</td> <td>24.08</td> <td>24.10</td> <td>24.12</td> <td>24.10</td> <td>24.10</td> <td>24.10</td> <td></td> <td></td> <td></td>	25	37	24.08	24.10	24.12	24.10	24.10	24.10			
15	QPSK <td>50</td> <td>0</td> <td>24.04</td> <td>24.06</td> <td>24.14</td> <td>24.10</td> <td>24.07</td> <td>24.07</td> <td></td> <td></td> <td></td>	50	0	24.04	24.06	24.14	24.10	24.07	24.07			
15	16QAM <td>1</td> <td>0</td> <td>24.04</td> <td>24.08</td> <td>24.09</td> <td>24.18</td> <td>24.08</td> <td>24.08</td> <td>24.5</td> <td>0</td> <td></td>	1	0	24.04	24.08	24.09	24.18	24.08	24.08	24.5	0	
15	16QAM <td>1</td> <td>49</td> <td>23.86</td> <td>23.84</td> <td>23.89</td> <td>23.95</td> <td>23.94</td> <td>23.94</td> <td></td> <td></td> <td></td>	1	49	23.86	23.84	23.89	23.95	23.94	23.94			
15	16QAM <td>25</td> <td>0</td> <td>23.05</td> <td>23.01</td> <td>23.11</td> <td>22.99</td> <td>22.99</td> <td>22.99</td> <td></td> <td></td> <td></td>	25	0	23.05	23.01	23.11	22.99	22.99	22.99			
15	16QAM <td>25</td> <td>12</td> <td>23.06</td> <td>23.04</td> <td>23.16</td> <td>23.11</td> <td>23.13</td> <td>23.13</td> <td></td> <td></td> <td></td>	25	12	23.06	23.04	23.16	23.11	23.13	23.13			
15	16QAM <td>50</td> <td>25</td> <td>22.97</td> <td>22.97</td> <td>23.13</td> <td>22.84</td> <td>23.00</td> <td>23.00</td> <td></td> <td></td> <td></td>	50	25	22.97	22.97	23.13	22.84	23.00	23.00			
15	64QAM <td>1</td> <td>0</td> <td>23.13</td> <td>23.13</td> <td>23.13</td> <td>23.13</td> <td>23.13</td> <td>23.13</td> <td></td> <td></td> <td></td>	1	0	23.13	23.13	23.13	23.13	23.13	23.13			
15	64QAM <td>1</td> <td>0</td> <td>23.22</td> <td>23.30</td> <td>23.47</td> <td>23.27</td> <td>23.28</td> <td>23.28</td> <td>24</td> <td>0.5</td> <td></td>	1	0	23.22	23.30	23.47	23.27	23.28	23.28	24	0.5	
15	64QAM <td>1</td> <td>25</td> <td>23.14</td> <td>23.15</td> <td>23.23</td> <td>23.09</td> <td>23.02</td> <td>23.02</td> <td></td> <td></td> <td></td>	1	25	23.14	23.15	23.23	23.09	23.02	23.02			
15	64QAM <td>1</td> <td>49</td> <td>23.13</td> <td>23.13</td> <td>23.18</td> <td>23.06</td> <td>23.07</td> <td>23.07</td> <td></td> <td></td> <td></td>	1	49	23.13	23.13	23.18	23.06	23.07	23.07			
15	64QAM <td>25</td> <td>0</td> <td>22.13</td> <td>22.10</td> <td>22.21</td> <td>22.03</td> <td>22.07</td> <td>22.07</td> <td></td> <td></td> <td></td>	25	0	22.13	22.10	22.21	22.03	22.07	22.07			
15	64QAM <td>25</td> <td>12</td> <td>21.88</td> <td>21.84</td> <td>22.06</td> <td>21.85</td> <td>21.97</td> <td>21.97</td> <td>23</td> <td>1.5</td> <td></td>	25	12	21.88	21.84	22.06	21.85	21.97	21.97	23	1.5	
15	64QAM <td>50</td> <td>0</td> <td>22.12</td> <td>22.12</td> <td>22.28</td> <td>22.11</td> <td>22.12</td> <td>22.12</td> <td></td> <td></td> <td></td>	50	0	22.12	22.12	22.28	22.11	22.12	22.12			
15	64QAM <td>50</td> <td>0</td> <td>22.12</td> <td>22.12</td> <td>22.28</td> <td>22.11</td> <td>22.12</td> <td>22.12</td> <td></td> <td></td> <td></td>	50	0	22.12	22.12	22.28	22.11	22.12	22.12			
15	256QAM <td>1</td> <td>25</td> <td>20.12</td> <td>19.98</td> <td>20.17</td> <td>20.07</td> <td>20.01</td> <td>20.01</td> <td>21</td> <td>3.5</td> <td></td>	1	25	20.12	19.98	20.17	20.07	20.01	20.01	21	3.5	
15	256QAM <td>1</td> <td>49</td> <td>20.19</td> <td>20.14</td> <td>20.29</td> <td>20.09</td> <td>20.09</td> <td>20.09</td> <td></td> <td></td> <td></td>	1	49	20.19	20.14	20.29	20.09	20.09	20.09			
15	256QAM <td>25</td> <td>0</td> <td>20.04</td> <td>20.04</td> <td>20.06</td> <td>20.04</td> <td>20.04</td> <td>20.04</td> <td></td> <td></td> <td></td>	25	0	20.04	20.04	20.06	20.04	20.04	20.04			
15	256QAM <td>25</td> <td>12</td> <td>19.91</td> <td>19.95</td> <td>20.06</td> <td>19.96</td> <td>19.92</td> <td>19.92</td> <td>21</td> <td>3.5</td> <td></td>	25	12	19.91	19.95	20.06	19.96	19.92	19.92	21	3.5	
15	256QAM <td>50</td> <td>25</td> <td>19.80</td> <td>19.80</td> <td>19.85</td> <td>19.84</td> <td>19.87</td> <td>19.87</td> <td></td> <td></td> <td></td>	50	25	19.80	19.80	19.85	19.84	19.87	19.87			
15	256QAM <td>50</td> <td>50</td> <td>19.94</td> <td>20.05</td> <td>20.05</td> <td>19.97</td> <td>20.05</td> <td>20.05</td> <td></td> <td></td> <td></td>	50	50	19.94	20.05	20.05	19.97	20.05	20.05			
Channel				36675	40166	46306	41060	41860				
Frequency [MHz]				24.08	24.14	24.14	24.14	24.14				
15	QPSK <td>1</td> <td>0</td> <td>24.08</td> <td>24.17</td> <td>24.13</td> <td>24.24</td> <td>24.24</td> <td>24.02</td> <td>24.5</td> <td>0</td> <td></td>	1	0	24.08	24.17	24.13	24.24	24.24	24.02	24.5	0	
15	QPSK <td>1</td> <td>12</td> <td>23.88</td> <td>24.17</td> <td>24.15</td> <td>24.08</td> <td>24.07</td> <td>24.07</td> <td></td> <td></td> <td></td>	1	12	23.88	24.17	24.15	24.08	24.07	24.07			
15	QPSK <td>1</td> <td>25</td> <td>24.07</td> <td>24.12</td> <td>24.13</td> <td>24.06</td> <td>24.06</td> <td>24.06</td> <td></td> <td></td> <td></td>	1	25	24.07	24.12	24.13	24.06	24.06	24.06			
15	QPSK <td>12</td> <td>0</td> <td>24.14</td> <td>24.15</td> <td>24.28</td> <td>24.18</td> <td>24.14</td> <td>24.14</td> <td></td> <td></td> <td></td>	12	0	24.14	24.15	24.28	24.18	24.14	24.14			
15	QPSK <td>12</td> <td>7</td> <td>24.13</td> <td>24.21</td> <td>24.15</td> <td>24.10</td> <td>24.07</td> <td>24.07</td> <td></td> <td></td> <td></td>	12	7	24.13	24.21	24.15	24.10	24.07	24.07			
15	QPSK <td>25</td> <td>0</td> <td>24.03</td> <td>24.12</td> <td>24.20</td> <td>24.10</td> <td>24.12</td> <td>24.12</td> <td></td> <td></td> <td></td>	25	0	24.03	24.12	24.20	24.10	24.12	24.12			
15	QPSK <td>25</td> <td>0</td> <td>24.01</td> <td>23.99</td> <td>24.19</td> <td>24.03</td> <td>24.08</td> <td>24.08</td> <td></td> <td></td> <td></td>	25	0	24.01	23.99	24.19	24.03	24.08	24.08			
15	16QAM <td>1</td> <td>0</td> <td>24.10</td> <td>24.14</td> <td>24.17</td> <td>24.12</td> <td>24.12</td> <td>24.12</td> <td>24.5</td> <td>0</td> <td></td>	1	0	24.10	24.14	24.17	24.12	24.12	24.12	24.5	0	
15	16QAM <td>1</td> <td>12</td> <td>23.84</td> <td>24.11</td> <td>24.12</td> <td>24.03</td> <td>24.03</td> <td>24.03</td> <td></td> <td></td> <td></td>	1	12	23.84	24.11	24.12	24.03	24.03	24.03			
15	16QAM <td>1</td> <td>24</td> <td>23.94</td> <td>23.95</td> <td>23.98</td> <td>23.94</td> <td>23.92</td> <td>23.92</td> <td></td> <td></td> <td></td>	1	24	23.94	23.95	23.98	23.94	23.92	23.92			
15	16QAM <td>12</td> <td>7</td> <td>23.12</td> <td>23.02</td> <td>23.10</td> <td>23.03</td> <td>23.07</td> <td>23.07</td> <td></td> <td></td> <td></td>	12	7	23.12	23.02	23.10	23.03	23.07	23.07			
15	16QAM <td>12</td> <td>7</td> <td>23.15</td> <td>23.09</td> <td>23.30</td> <td>23.09</td> <td>23.11</td> <td>23.11</td> <td>24</td> <td>0.5</td> <td></td>	12	7	23.15	23.09	23.30	23.09	23.11	23.11	24	0.5	
15	16QAM <td>12</td> <td>13</td> <td>23.01</td> <td>23.09</td> <td>23.18</td> <td>22.95</td> <td>23.05</td> <td>23.05</td> <td></td> <td></td> <td></td>	12	13	23.01	23.09	23.18	22.95	23.05	23.05			
15	16QAM <td>25</td> <td>0</td> <td>23.13</td> <td>23.13</td> <td>23.18</td> <td>23.08</td> <td>23.12</td> <td>23.12</td> <td></td> <td></td> <td></td>	25	0	23.13	23.13	23.18	23.08	23.12	23.12			
15	64QAM <td>1</td> <td>0</td> <td>23.24</td> <td>23.31</td> <td>23.38</td> <td>23.31</td> <td>23.28</td> <td>23.28</td> <td></td> <td></td> <td></td>	1	0	23.24	23.31	23.38	23.31	23.28	23.28			
15	64QAM <td>1</td> <td>12</td> <td>23.09</td> <td>23.11</td> <td>23.23</td> <td>23.19</td> <td>23.06</td> <td>23.06</td> <td>24</td> <td>0.5</td> <td></td>	1	12	23.09	23.11	23.23	23.19	23.06	23.06	24	0.5	
15	64QAM <td>1</td> <td>25</td> <td>23.13</td> <td>23.13</td> <td>23.18</td> <td>23.06</td> <td>23.12</td> <td>23.12</td> <td></td> <td></td> <td></td>	1	25	23.13	23.13	23.18	23.06	23.12	23.12			
15	64QAM <td>12</td> <td>0</td> <td>22.10</td> <td>22.10</td> <td>22.27</td> <td>21.98</td> <td>22.07</td> <td>22.07</td> <td></td> <td></td> <td></td>	12	0	22.10	22.10	22.27	21.98	22.07	22.07			
15	64QAM <td>12</td> <td>7</td> <td>22.11</td> <td>22.02</td> <td>22.22</td> <td>22.01</td> <td>22.19</td> <td>22.19</td> <td></td> <td></td> <td></td>	12	7	22.11	22.02	22.22	22.01	22.19	22.19			
15	64QAM <td>25</td> <td>0</td> <td>22.12</td> <td>22.23</td> <td>22.28</td> <td>22.17</td> <td>22.17</td> <td>22.17</td> <td>23</td> <td>1.5</td> <td></td>	25	0	22.12	22.23	22.28	22.17	22.17	22.17	23	1.5	
15	64QAM <td>25</td> <td>12</td> <td>22.15</td> <td>22.15</td> <td>22.27</td> <td>22.00</td> <td>22.01</td> <td>22.01</td> <td></td> <td></td> <td></td>	25	12	22.15	22.15	22.27	22.00	22.01	22.01			
15	256QAM <td>1</td> <td>12</td> <td>20.03</td> <td>20.04</td> <td>20.18</td> <td>19.99</td> <td>20.07</td> <td>20.07</td> <td>21</td> <td>3.5</td> <td></td>	1	12	20.03	20.04	20.18	19.99	20.07	20.07	21	3.5	
15	256QAM <td>1</td> <td>24</td> <td>20.26</td> <td>20.18</td> <td>20.33</td> <td>20.05</td> <td>20.05</td> <td>20.05</td> <td></td> <td></td> <td></td>	1	24	20.26	20.18	20.33	20.05	20.05	20.05			
15	256QAM <td>12</td> <td>0</td> <td>19.98</td> <td>19.98</td> <td>19.98</td> <td>19.98</td> <td>19.98</td> <td>19.98</td> <td></td> <td></td> <td></td>	12	0	19.98	19.98	19.98	19.98	19.98	19.98			
15	256QAM <td>12</td> <td>7</td> <td>19.89</td> <td>20.00</td> <td>20.04</td> <td>19.81</td> <td>19.89</td> <td>19.89</td> <td>21</td> <td>3.5</td> <td></td>	12	7	19.89	20.00	20.04	19.81	19.89	19.89	21	3.5	
15	256QAM <td>12</td> <td>13</td> <td>19.81</td> <td>19.78</td> <td>20.05</td> <td>19.89</td> <td>19.96</td> <td>19.96</td> <td></td> <td></td> <td></td>	12	13	19.81	19.78	20.05	19.89	19.96	19.96			
15	256QAM <td>25</td> <td>0</td> <td>19.97</td> <td>19.97</td> <td>20.05</td> <td>19.97</td> <td>19.97</td> <td>19.97</td> <td></td> <td></td> <td></td>	25	0	19.97	19.97	20.05	19.97	19.97	19.97			

CDMA2000 1X									
Channel	Sect-Average Power (dBm)			TxPower Limit	Frame-Average Power (dBm)			TxPower Limit	
	19B.2	19B.4	19B.6		19B.2	19B.4	19B.6		
TX Channel	19B	19B	19B.1	Limit	19B	19B	19B.1	Limit	
Frequency (MHz)	894.2	894.4	894.6	(dBm)	894.2	894.4	894.6	(dBm)	
CDMA 1 Tx-Mile	32.74	32.78	32.83	33.00	23.74	23.78	23.83	24.00	
OPRS 1 Tx-Mile	32.47	32.71	32.80	33.00	23.87	23.71	23.88	24.00	
OPRS 2 Tx-Mile	25.55	25.49	25.41	30.50	23.55	23.48	23.41	24.00	
OPRS 3 Tx-Mile	28.10	28.53	28.15	29.00	23.84	23.77	23.89	24.74	
OPRS 4 Tx-Mile	28.34	28.54	28.00	27.50	23.34	23.54	23.00	24.00	
EDGE 1 Tx-Mile	25.75	25.91	25.84	27.00	18.75	18.91	18.84	18.00	
EDGE 2 Tx-Mile	24.07	24.21	23.85	25.50	18.07	18.21	17.85	18.00	
EDGE 3 Tx-Mile	22.84	22.57	22.74	24.00	18.58	18.71	18.48	18.74	
EDGE 4 Tx-Mile	20.84	20.69	20.81	22.00	17.84	17.69	17.81	18.00	
CDMA2000 1X-EV-DO									
Channel	Sect-Average Power (dBm)			TxPower Limit	Frame-Average Power (dBm)			TxPower Limit	
	19B.2	19B.4	19B.6		19B.2	19B.4	19B.6		
TX Channel	19B.2	19B.4	19B.6	Limit	19B.2	19B.4	19B.6	Limit	
Frequency (MHz)	19B.2	19B.4	19B.6	(dBm)	19B.2	19B.4	19B.6	(dBm)	
CDMA 1 Tx-Mile	20.52	20.52	20.41	30.22	20.52	20.52	20.41	27.00	
OPRS 1 Tx-Mile	20.21	20.45	20.33	30.50	20.21	20.45	20.33	27.00	
OPRS 2 Tx-Mile	20.68	20.86	20.62	27.00	19.68	19.86	19.62	21.00	
OPRS 3 Tx-Mile	24.10	24.32	24.11	25.50	19.84	20.09	19.85	27.04	
OPRS 4 Tx-Mile	21.67	21.51	21.77	23.00	18.67	18.51	18.77	25.00	
EDGE 1 Tx-Mile	19.85	19.85	19.83	25.00	14.85	14.85	14.83	18.00	
EDGE 2 Tx-Mile	22.83	22.27	22.88	23.50	18.83	18.27	18.88	17.99	
EDGE 3 Tx-Mile	20.76	21.06	20.92	22.00	18.50	18.80	18.66	17.74	
EDGE 4 Tx-Mile	18.48	18.75	18.58	20.00	15.48	15.75	15.58	17.00	
WCDMA 3.1									
Channel	Sect-Average Power (dBm)			TxPower Limit	Frame-Average Power (dBm)			TxPower Limit	
	19B.2	19B.4	19B.6		19B.2	19B.4	19B.6		
TX Channel	19B.2 <td>19B.4</td> <td>19B.6</td> <td>Limit</td> <td>19B.2<td>19B.4</td><td>19B.6</td><td>Limit</td><td></td></td>	19B.4	19B.6	Limit	19B.2 <td>19B.4</td> <td>19B.6</td> <td>Limit</td> <td></td>	19B.4	19B.6	Limit	
Frequency (MHz)	19B.2 <td>19B.4</td> <td>19B.6</td> <td>(dBm)</td> <td>19B.2<td>19B.4</td><td>19B.6</td><td>(dBm)</td><td></td></td>	19B.4	19B.6	(dBm)	19B.2 <td>19B.4</td> <td>19B.6</td> <td>(dBm)</td> <td></td>	19B.4	19B.6	(dBm)	
WCDMA 1 Tx-Mile	22.50	22.76	22.84	24.00	22.76	23.02	23.00	23.76	25.00
WCDMA 2 Tx-Mile	22.84	23.61	23.78	24.00	22.95	23.10	23.00	23.83	24.01
WCDMA 3 Tx-Mile	22.48	22.62	22.38	23.00	22.57	22.73	22.48	22.83	23.57
WCDMA 4 Tx-Mile	22.48	22.63	22.45	23.00	22.50	22.77	22.58	22.83	24.00
WCDMA 5 Tx-Mile	22.01	22.08	21.85	22.50	22.11	22.15	22.03	22.37	24.48
WCDMA 6 Tx-Mile	22.04	22.08	21.84	22.50	22.12	22.14	22.00	22.54	24.48
WCDMA 7 Tx-Mile	22.28	22.61	22.49	23.00	22.40	22.77	22.61	23.00	24.48
WCDMA 8 Tx-Mile	22.50	22.75	22.52	23.00	22.62	22.78	22.60	22.76	24.48
WCDMA 9 Tx-Mile	21.87	21.85	21.78	22.50	21.97	21.95	21.87	22.41	24.48
WCDMA 10 Tx-Mile	21.92	21.83	21.89	22.50	22.04	21.95	21.89	22.27	24.48
WCDMA 11 Tx-Mile	22.48	22.61	22.53	24.00	22.58	22.81	22.80	23.76	25.00
WCDMA 12 Tx-Mile	20.48	20.47	20.44	22.00	20.59	20.51	20.50	20.99	23.50
WCDMA 13 Tx-Mile	21.46	21.43	21.44	22.00	21.52	21.53	21.50	21.78	23.50
WCDMA 14 Tx-Mile	20.44	20.49	20.47	22.00	20.52	20.58	20.56	20.80	23.50
WCDMA 15 Tx-Mile	22.36	22.65	22.54	24.00	22.61	22.65	22.63	23.00	25.00



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	20.91	21.15	21.14	22	0			
20	QPSK	1	49	20.81	20.96	20.93					
20	QPSK	1	99	20.91	21.09	21.08	21	1			
20	QPSK	50	0	20.08	20.10	19.91					
20	QPSK	50	24	20.03	20.00	20.00	20	2			
20	QPSK	50	50	20.98	20.98	20.93					
20	QPSK	100	0	19.90	20.03	19.93	21	1			
20	16QAM	1	49	20.02	20.08	20.04					
20	16QAM	50	99	19.95	19.95	19.85	21	1			
20	16QAM	50	50	19.93	19.94	19.94					
20	16QAM	50	24	19.76	19.81	19.81	20	2			
20	16QAM	50	50	19.88	19.95	19.79					
20	64QAM	1	0	19.02	19.07	19.03	19	3			
20	64QAM	1	49	19.10	19.06	19.09					
20	64QAM	1	99	19.04	19.02	19.04	20	2			
20	64QAM	50	0	18.99	19.02	19.12					
20	64QAM	50	24	17.79	17.81	17.82	17	5			
20	64QAM	50	50	17.76	17.81	17.76					
20	64QAM	100	0	17.84	18.05	17.76	17	5			
20	256QAM	1	49	19.93	19.97	19.91					
20	256QAM	1	99	19.81	19.98	19.98	17	5			
20	256QAM	50	50	19.75	19.83	19.86					
20	256QAM	50	24	19.75	19.83	19.86	17	5			
20	256QAM	50	50	19.84	19.90	19.88					
20	256QAM	100	0	19.97	19.99	19.99	17	5			
20	256QAM	100	0	19.97	19.99	19.99					
Channel											
Frequency (MHz)											
15	QPSK	1	0	20.79	21.06	20.94	22	0			
15	QPSK	1	24	20.80	20.96	20.96					
15	QPSK	1	74	20.90	20.99	20.96	21	1			
15	QPSK	36	0	20.04	20.09	19.99					
15	QPSK	36	0	20.98	20.99	19.95	21	1			
15	QPSK	36	39	19.95	20.05	19.93					
15	QPSK	75	0	19.96	19.99	19.99	21	1			
15	QPSK	75	0	19.95	19.99	19.99					
15	16QAM	1	37	19.85	19.98	19.85	21	1			
15	16QAM	1	37	19.85	19.98	19.85					
15	16QAM	36	74	19.96	19.96	19.96	20	2			
15	16QAM	36	20	19.73	19.80	19.71					
15	16QAM	36	20	19.73	19.80	19.71	19	3			
15	16QAM	75	0	19.97	19.97	19.97					
15	64QAM	1	0	19.03	19.14	19.15	20	2			
15	64QAM	1	0	19.03	19.14	19.15					
15	64QAM	1	74	19.05	19.04	19.02	19	3			
15	64QAM	36	0	17.89	17.89	17.86					
15	64QAM	36	39	17.81	17.82	17.89	17	5			
15	64QAM	75	0	17.84	17.86	17.88					
15	256QAM	1	37	19.83	19.90	19.88	17	5			
15	256QAM	1	74	19.81	19.92	19.88					
15	256QAM	36	20	19.89	19.98	19.75	17	5			
15	256QAM	36	20	19.74	19.82	19.72					
15	256QAM	75	0	19.95	19.97	19.97	17	5			
15	256QAM	75	0	19.95	19.97	19.97					
Channel											
Frequency (MHz)											
5	QPSK	1	0	20.95	20.94	20.99	22	0			
5	QPSK	1	24	20.88	20.97	20.92					
5	QPSK	1	12	20.83	21.01	20.94	21	1			
5	QPSK	12	7	19.89	19.92	19.87					
5	QPSK	12	13	19.99	20.05	20.03	21	1			
5	QPSK	12	13	19.99	20.05	20.03					
5	16QAM	1	0	20.02	19.99	19.98	21	1			
5	16QAM	1	12	19.87	19.96	19.85					
5	16QAM	1	12	19.87	19.96	19.85	21	1			
5	16QAM	12	0	19.80	19.90	19.84					
5	16QAM	12	7	19.82	19.82	19.78	20	2			
5	16QAM	12	7	19.82	19.82	19.78					
5	16QAM	25	0	19.80	19.10	19.01	20	2			
5	16QAM	25	0	19.80	19.10	19.01					
5	64QAM	1	0	19.04	19.07	19.03	19	3			
5	64QAM	1	0	19.04	19.07	19.03					
5	64QAM	1	24	19.01	19.00	19.92	17	5			
5	64QAM	12	0	17.83	18.06	17.91					
5	64QAM	12	0	17.85	17.86	17.86	17	5			
5	64QAM	12	13	17.81	17.84	17.87					
5	64QAM	25	0	17.81	18.06	17.82	17	5			
5	64QAM	25	0	17.83	18.02	17.97					
5	256QAM	1	12	19.84	19.90	19.86	17	5			
5	256QAM	1	24	19.84	19.90	19.86					
5	256QAM	1	24	19.84	19.90	19.86	17	5			
5	256QAM	12	7	19.70	19.80	19.71					
5	256QAM	12	7	19.70	19.80	19.71	17	5			
5	256QAM	12	13	19.75	19.80	19.82					
5	256QAM	25	0	19.86	19.90	19.97	17	5			
5	256QAM	25	0	19.86	19.90	19.97					
Channel											
Frequency (MHz)											
3	QPSK	1	0	20.85	21.10	20.90	22	0			
3	QPSK	1	8	20.88	21.00	20.83					
3	QPSK	1	14	20.88	21.02	21.02	21	1			
3	QPSK	8	0	20.02	20.00	19.14					
3	QPSK	8	4	19.91	19.90	19.80	21	1			
3	QPSK	8	7	19.88	19.90	19.84					
3	16QAM	1	0	20.01	20.00	20.00	21	1			
3	16QAM	1	8	19.88	20.00	19.90					
3	16QAM	1	8	19.84	19.86	19.83	20	2			
3	16QAM	8	0	19.90	19.97	19.91					
3	16QAM	8	4	19.79	19.85	19.70	20	2			
3	16QAM	8	7	19.81	19.84	19.81					
3	64QAM	1	0	19.00	19.15	19.11	20	2			
3	64QAM	1	0	19.86	19.86	19.91					
3	64QAM	14	0	19.05	19.01	19.90	19	3			
3	64QAM	14	0	19.05	19.01	19.90					
3	64QAM	8	0	17.71	17.89	17.86	17	5			
3	64QAM	8	7	17.74	17.87	17.88					
3	256QAM	1	8	19.91	19.96	19.92	17	5			
3	256QAM	1	8	19.86	19.90	19.86					
3	256QAM	8	0	19.86	19.92	19.80	17	5			
3	256QAM	8	4	19.78	19.89	19.74					
3	256QAM	8	4	19.76	19.86	19.76	17	5			
3	256QAM	15	0	19.92	19.94	19.90					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	20.86	21.03	20.95	22	0			
1.4	QPSK	1	3	20.81	20.99	20.91					
1.4	QPSK	1	5	20.91	21.01	20.97	21	1			
1.4	QPSK	3	1	20.92	20.97	20.90					
1.4	QPSK	3	1	20.92	20.97	20.90	21	1			
1.4	QPSK	3	1	20.92	20.97	20.90					
1.4	16QAM	1	0	20.06	20.00	19.97	21	1			
1.4	16QAM	1	0	20.06	20.00	19.97					
1.4	16QAM	1	3	19.95	19.95	19.87	21	1			
1.4	16QAM	1	3	19.95	19.95	19.87					
1.4	16QAM	3	0	19.95	19.98	19.94	20	2			
1.4	16QAM	3	0	19.97	19.90	19.85					
1.4	16QAM	6	0	19.87	19.92	19.93	20	2			
1.4	16QAM	6	0	19.87	19.92	19.93					
1.4	16QAM	6	3	19.89	19.92	19.93	20	2			
1.4	16QAM	6	3	19.90	19.95	19.92					
1.4	64QAM	1	0	19.02	19.06	19.03	19	3			
1.4	64QAM	1	0	19.02	19.06	19.03					
1.4	64QAM	3	1	19.78	19.88	19.80	19	3			
1.4	64QAM	3	1	19.78	19.88	19.80					
1.4	64QAM	6	0	17.96	17.97	17.97	19	3			
1.4	64QAM	6	0	17.96	17.97	17.97					
1.4	256QAM	1	0	19.96	19.99	19.92	17	5			
1.4	256QAM	1	0	19.96	19.99	19.92					
1.4	256QAM	1	3	19.97	19.97	19.97	17	5			
1.4	256QAM	1	3	19.97	19.97	19.97					
1.4	256QAM	3	0	19.92	19.97	19.85	17	5			
1.4	256QAM	3	0	19.92	19.97	19.85					
1.4	256QAM	3	3	19.73	19.73	19.76	17	5			
1.4	256QAM	3	3	19.73	19.73	19.76					



Band 12 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power High Ch / Freq.	Turn-up (dB)	APR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.58	22.70	22.62	24	0	
	QPSK	1	25	22.53	22.70	22.58			
	QPSK	1	49	22.56	22.70	22.67			
	QPSK	25	0	21.68	21.71	21.64			
	QPSK	25	12	21.54	21.68	21.58			
	QPSK	25	25	21.62	21.66	21.62			
	QPSK	50	0	21.60	21.67	21.63			
	16QAM	1	0	21.70	21.75	21.64			
	16QAM	1	25	21.54	21.63	21.51			
	16QAM	1	49	21.57	21.66	21.63			
10	16QAM	25	0	20.63	20.70	20.66	22	2	
	16QAM	25	12	20.63	20.74	20.63			
	16QAM	25	25	20.66	20.76	20.72			
	16QAM	50	0	20.64	20.73	20.69			
	64QAM	1	0	20.80	20.89	20.83			
	64QAM	1	25	20.67	20.77	20.64			
	64QAM	1	49	20.63	20.66	20.64			
	64QAM	25	0	19.52	19.65	19.54			
	64QAM	25	12	19.62	19.71	19.59			
	64QAM	25	25	19.51	19.59	19.55			
10	64QAM	50	0	19.62	19.70	19.62	21	3	
	256QAM	1	0	17.57	17.71	17.66			
	256QAM	1	25	17.51	17.65	17.56			
	256QAM	1	49	17.54	17.66	17.62			
	256QAM	25	0	17.56	17.69	17.64			
	256QAM	25	12	17.69	17.74	17.62			
	256QAM	25	25	17.56	17.62	17.56			
	256QAM	50	0	17.56	17.62	17.56			
	Channel			17.53	17.65	17.52			
	Frequency (MHz)			701.5	707.5	713.5			
5	QPSK	1	0	22.47	22.70	22.49	24	0	
	QPSK	1	12	22.40	22.68	22.51			
	QPSK	1	24	22.42	22.56	22.44			
	QPSK	12	0	21.65	21.65	21.52			
	QPSK	12	7	21.40	21.60	21.52			
	QPSK	12	13	21.53	21.56	21.49			
	QPSK	25	0	21.62	21.66	21.62			
	16QAM	1	0	21.58	21.64	21.57			
	16QAM	1	12	21.46	21.51	21.39			
	16QAM	12	0	20.48	20.66	20.52			
5	16QAM	12	7	20.55	20.69	20.49	22	2	
	16QAM	12	13	20.63	20.74	20.63			
	16QAM	25	0	20.59	20.61	20.59			
	64QAM	1	0	20.74	20.81	20.76			
	64QAM	1	24	21.44	21.62	21.39			
	64QAM	1	24	20.52	20.63	20.50			
	64QAM	12	0	19.45	19.51	19.50			
	64QAM	12	13	19.46	19.51	19.44			
	64QAM	25	0	19.67	19.60	19.49			
	256QAM	1	0	17.46	17.59	17.52			
5	256QAM	1	12	17.36	17.45	17.47	19	5	
	256QAM	1	24	17.45	17.58	17.56			
	256QAM	12	0	17.46	17.56	17.46			
	256QAM	12	7	17.48	17.55	17.48			
	256QAM	12	13	17.42	17.53	17.49			
	256QAM	25	0	17.44	17.54	17.46			
	Channel			230.05	230.95	231.05			
	Frequency (MHz)			701.5	707.5	713.5			
3	QPSK	1	0	22.47	22.67	22.49	24	0	
	QPSK	1	8	22.39	22.51	22.46			
	QPSK	1	14	22.44	22.43	22.52			
	QPSK	8	0	21.60	21.59	21.60			
	QPSK	8	4	21.43	21.59	21.49			
	QPSK	8	7	21.56	21.62	21.50			
	16QAM	1	0	21.54	21.55	21.51			
	16QAM	1	0	21.62	21.67	21.54			
	16QAM	1	8	21.44	21.60	21.38			
	16QAM	8	0	20.55	20.62	20.50			
3	16QAM	8	4	20.55	20.65	20.56	22	2	
	16QAM	8	7	20.67	20.66	20.62			
	16QAM	15	0	20.51	20.67	20.59			
	64QAM	1	0	20.76	20.80	20.77			
	64QAM	1	8	20.55	20.70	20.54			
	64QAM	1	14	20.54	20.64	20.55			
	64QAM	8	0	19.41	19.58	19.47			
	64QAM	8	4	19.40	19.67	19.51			
	64QAM	8	7	19.45	19.52	19.46			
	64QAM	15	0	19.54	19.60	19.50			
3	256QAM	1	0	17.53	17.60	17.55	19	5	
	256QAM	1	8	17.44	17.50	17.52			
	256QAM	1	14	17.41	17.62	17.56			
	256QAM	8	0	17.51	17.55	17.52			
	256QAM	8	4	17.54	17.63	17.47			
	256QAM	8	7	17.44	17.54	17.47			
	256QAM	15	0	17.60	17.59	17.57			
	Channel			230.17	230.95	231.73			
	Frequency (MHz)			699.7	707.5	715.3			
1.4	QPSK	1	0	22.53	22.61	22.55	24	0	
	QPSK	1	3	22.41	22.53	22.53			
	QPSK	1	5	22.48	22.55	22.50			
	QPSK	3	0	22.64	22.57	22.52			
	QPSK	3	1	22.44	22.55	22.43			
	QPSK	3	3	22.49	22.63	22.59			
	QPSK	8	0	21.67	21.64	21.55			
	16QAM	1	0	21.61	21.63	21.54			
	16QAM	1	3	21.45	21.54	21.39			
	16QAM	1	5	21.47	21.63	21.48			
1.4	16QAM	3	0	21.48	21.55	21.46	23	1	
	16QAM	3	1	21.53	21.71	21.54			
	16QAM	3	3	21.56	21.73	21.67			
	16QAM	6	0	20.53	20.65	20.60			
	64QAM	1	0	20.74	20.80	20.74			
	64QAM	1	3	20.64	20.64	20.53			
	64QAM	1	5	20.49	20.60	20.55			
	64QAM	3	0	20.43	20.50	20.40			
	64QAM	3	1	20.52	20.60	20.49			
	64QAM	3	3	20.41	20.47	20.44			
1.4	64QAM	6	0	19.53	19.59	19.50	21	3	
	256QAM	1	0	17.46	17.51	17.56			
	256QAM	1	3	17.36	17.50	17.49			
	256QAM	1	5	17.47	17.51	17.57			
	256QAM	3	0	17.50	17.56	17.57			
	256QAM	3	1	17.53	17.70	17.59			
	256QAM	3	3	17.51	17.47	17.45			
	256QAM	6	0	17.53	17.57	17.54			
	Channel			230.17	230.95	231.73			
	Frequency (MHz)			699.7	707.5	715.3			

Band 13 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power (dBm) CR, Freq.	Power (dBm) CR, Freq.	Power (dBm) CR, Freq.	Turn-up step (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0		22.52	22.52	24	0	
10	QPSK	1	25		22.43	22.43			
10	QPSK	1	49		22.37	22.37			
10	QPSK	25	0		21.49	21.49			
10	QPSK	25	12		21.44	21.44			
10	QPSK	25	25		21.41	21.41			
10	QPSK	50	0		21.46	21.46			
10	16QAM	1	0		21.70	21.70			
10	16QAM	1	25		21.56	21.56	23	1	
10	16QAM	1	49		21.51	21.51			
10	16QAM	25	0		20.62	20.62			
10	16QAM	25	12		20.57	20.57			
10	16QAM	25	25		20.49	20.49			
10	16QAM	50	0		20.42	20.42			
10	16QAM	50	25		20.36	20.36			
10	16QAM	1	25		20.54	20.54			
10	16QAM	1	49		20.51	20.51			
10	16QAM	25	0		20.44	20.44			
10	16QAM	25	12		20.51	20.51			
10	16QAM	25	25		20.45	20.45			
10	16QAM	50	0		20.46	20.46			
10	256QAM	1	0		17.58	17.58			
10	256QAM	1	25		17.46	17.46	19	5	
10	256QAM	1	49		17.43	17.43			
10	256QAM	25	0		17.50	17.50			
10	256QAM	25	12		17.42	17.42			
10	256QAM	25	25		17.42	17.42			
10	256QAM	50	0		17.43	17.43			
10	256QAM	50	25		17.35	17.35			
10	256QAM	1	25	2305	2305	2305			
10	256QAM	1	49	2305	2305	2305			
10	256QAM	25	0	2305	2305	2305			
10	256QAM	25	12	2305	2305	2305			
10	256QAM	25	25	2305	2305	2305			
10	256QAM	50	0	2305	2305	2305			
10	256QAM	50	25	2305	2305	2305			
5	QPSK	1	0	22.43	22.48	22.41	24	0	
5	QPSK	1	12	22.41	22.34	22.34			
5	QPSK	1	25	22.33	22.34	22.37			
5	QPSK	12	0	21.42	21.37	21.46			
5	QPSK	12	7	21.35	21.31	21.31			
5	QPSK	12	12	21.36	21.32	21.36			
5	QPSK	25	0	21.37	21.36	21.39			
5	16QAM	1	0	21.66	21.65	21.63			
5	16QAM	1	25	21.51	21.53	21.61	23	1	
5	16QAM	1	49	21.50	21.47	21.43			
5	16QAM	12	0	20.46	20.46	20.39			
5	16QAM	12	7	20.37	20.34	20.34			
5	16QAM	12	12	20.48	20.44	20.35			
5	16QAM	25	0	20.36	20.33	20.34			
5	16QAM	25	12	20.53	20.50	20.63			
5	16QAM	25	12	20.50	20.48	20.40			
5	16QAM	1	24	20.47	20.44	20.47			
5	16QAM	1	49	19.47	19.46	19.42			
5	16QAM	12	0	19.41	19.42	19.45			
5	16QAM	12	12	19.36	19.40	19.35			
5	16QAM	12	25	19.36	19.32	19.33			
5	256QAM	1	0	17.43	17.43	17.45			
5	256QAM	1	12	17.35	17.40	17.39	19	5	
5	256QAM	1	24	17.36	17.41	17.36			
5	256QAM	12	0	17.38	17.45	17.47			
5	256QAM	12	7	17.35	17.30	17.34			
5	256QAM	12	12	17.43	17.46	17.45			
5	256QAM	25	0	17.38	17.32	17.32			
5	256QAM	25	0	17.38	17.32	17.32			

Band 25 Ant1																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 26145	Power Mid Ch./Freq. 26146	Power High Ch./Freq. 26190	Turnup time (sec)	MPR (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	21.03	21.18	21.18			22	0						
20	QPSK	1	49	20.90	21.01	20.93										
20	QPSK	1	99	21.07	21.10	21.05										
20	QPSK	50	0	20.07	20.13	20.03			21	1						
20	QPSK	50	24	20.04	20.10	20.03										
20	QPSK	50	50	20.03	20.12	20.06										
20	QPSK	100	0	19.81	19.92	19.82			21	1						
20	16QAM	1	0	20.03	20.13	20.07										
20	16QAM	1	49	19.95	19.95	19.96			21	1						
20	16QAM	1	99	19.98	20.05	19.98										
20	16QAM	50	0	19.94	19.94	19.90			20	2						
20	16QAM	50	24	19.79	19.95	19.94										
20	16QAM	50	50	19.85	19.86	19.88			20	2						
20	16QAM	100	0	19.82	19.82	19.80										
20	84QAM	1	0	19.14	19.18	19.12			20	2						
20	84QAM	1	49	19.04	19.04	19.00										
20	84QAM	1	99	19.07	19.15	19.10			19	3						
20	84QAM	50	0	17.85	17.99	17.87										
20	84QAM	50	24	17.80	17.88	17.83			19	3						
20	84QAM	50	50	17.83	17.88	17.77										
20	84QAM	100	0	17.91	18.03	17.93			17	5						
20	256QAM	1	49	15.96	16.07	15.94										
20	256QAM	1	99	15.81	15.96	15.84			17	5						
20	256QAM	50	0	15.89	16.02	15.88										
20	256QAM	50	24	15.82	15.87	15.83			17	5						
20	256QAM	50	50	15.77	15.89	15.84										
20	256QAM	100	0	15.03	15.10	15.02										
Channel																
Frequency (MHz)																
18	QPSK	1	0	18.67	18.80	18.78			22	0						
18	QPSK	1	37	18.51	18.64	21.06										
18	QPSK	1	74	20.96	21.04	20.86			21	1						
18	QPSK	36	0	19.99	20.05	19.92										
18	QPSK	36	18	19.94	20.02	19.91			21	1						
18	QPSK	75	0	19.84	19.97	19.86										
18	16QAM	1	0	19.88	19.88	19.85			21	1						
18	16QAM	1	37	19.80	19.88	19.85										
18	16QAM	1	74	19.82	19.80	19.85			20	2						
18	16QAM	36	0	18.90	19.01	18.91										
18	16QAM	36	36	18.80	18.83	18.78			20	2						
18	16QAM	75	0	18.80	18.90	18.88										
18	84QAM	1	0	19.09	19.10	19.06			20	2						
18	84QAM	1	37	19.06	19.02	19.07										
18	84QAM	1	74	19.07	19.04	19.07			19	3						
18	84QAM	36	0	17.78	17.84	17.80										
18	84QAM	36	20	17.75	17.74	17.74			19	3						
18	84QAM	36	36	17.75	17.78	17.77										
18	84QAM	75	0	17.80	17.89	17.78			17	5						
18	256QAM	1	0	15.85	15.92	15.87										
18	256QAM	1	37	15.85	15.95	15.87			17	5						
18	256QAM	1	74	15.87	15.84	15.69										
18	256QAM	50	0	15.85	15.98	15.86			17	5						
18	256QAM	50	24	15.71	15.83	15.84										
18	256QAM	50	36	15.63	15.85	15.79										
Channel																
Frequency (MHz)																
10	QPSK	1	0	20.91	21.04	21.06			22			0				
10	QPSK	1	25	20.76	20.86	20.87										
10	QPSK	1	49	20.93	20.98	20.84			21	1						
10	QPSK	25	0	19.99	20.05	19.96										
10	QPSK	25	12	19.90	19.98	19.95			21	1						
10	QPSK	25	25	19.92	20.06	19.97										
10	QPSK	50	0	19.01	19.02	19.02			21	1						
10	QPSK	50	0	19.01	19.08	19.00										
10	16QAM	1	26	19.88	19.91	19.91			20	2						
10	16QAM	1	49	19.91	19.91	19.88										
10	16QAM	25	0	18.96	18.92	18.89			20	2						
10	16QAM	25	12	18.76	18.77	18.75										
10	16QAM	25	25	18.76	18.78	18.78			20	2						
10	16QAM	50	0	18.84	18.93	18.89										
10	84QAM	1	0	19.08	19.08	19.08			20	2						
10	84QAM	1	24	19.01	19.01	19.01										
10	84QAM	1	49	19.02	19.01	19.02			19	3						
10	84QAM	25	0	17.71	17.92	17.75										
10	84QAM	25	12	17.72	17.80	17.78			19	3						
10	84QAM	25	25	17.70	17.85	17.71										
10	84QAM	50	0	17.67	17.93	17.62			17	5						
10	256QAM	1	0	15.91	15.91	15.91										
10	256QAM	1	26	15.90	15.96	15.87			17	5						
10	256QAM	25	0	15.85	15.85	15.85										
10	256QAM	25	12	15.75	15.84	15.73			17	5						
10	256QAM	25	25	15.66	15.81	15.73										
10	256QAM	50	0	15.02	15.02	15.00										
Channel																
Frequency (MHz)																
5	QPSK	1	0	20.91	21.04	21.06			22	0						
5	QPSK	1	12	20.82	20.91	20.83										
5	QPSK	1	24	20.91	21.03	20.91			21	1						
5	QPSK	12	0	20.00	20.04	20.00										
5	QPSK	12	7	19.95	20.05	19.90			21	1						
5	QPSK	12	13	19.97	20.00	19.99										
5	QPSK	25	0	19.85	19.92	19.85			21	1						
5	16QAM	1	0	19.98	20.07	19.93										
5	16QAM	1	12	19.85	19.88	19.90			20	2						
5	16QAM	1	24	19.84	19.88	19.82										
5	16QAM	12	0	18.83	18.93	18.92			20	2						
5	16QAM	12	7	18.69	18.78	18.78										
5	16QAM	12	13	18.72	18.81	18.80			20	2						
5	16QAM	25	0	18.82	18.97	18.81										
5	84QAM	1	0	19.02	19.11	19.02			20	2						
5	84QAM	1	12	18.87	18.90	18.90										
5	84QAM	1	24	19.02	19.11	19.05			19	3						
5	84QAM	12	0	17.75	17.93	17.75										
5	84QAM	12	7	17.73	17.84	17.75			19	3						
5	84QAM	12	13	17.74	17.72	17.72										
5	84QAM	25	0	17.88	17.94	17.75			17	5						
5	256QAM	1	0	15.93	15.97	15.82										
5	256QAM	1	12	15.81	15.91	15.90			17	5						
5	256QAM	1	24	15.71	15.84	15.76										
5	256QAM	12	0	15.76	15.91	15.84			17	5						
5	256QAM	12	7	15.78	15.74	15.80										
5	256QAM	12	13	15.75	15.82	15.81			17	5						
5	256QAM	25	0	15.00	15.01	15.00										
Channel																
Frequency (MHz)																
3	QPSK	1	0	20.94	21.12	21.09			22			0				
3	QPSK	1	8	20.77	20.98	20.83										
3	QPSK	1	16	20.90	21.08	21.04			21	1						
3	QPSK	8	0	20.01	20.01	19.90										
3	QPSK	8	4	19.95	20.06	19.84			21	1						
3	QPSK	8	12	19.98	20.04	19.94										
3	QPSK	16	0	19.82	19.88	19.80			21	1						
3	16QAM	1	0	19.97	20.04	19.96										
3	16QAM	1	8	19.93	19.93	19.90			21	1						
3	16QAM	1	16	19.83	19.91	19.91										
3	16QAM	8	0	19.81	19.91	19.87			20	2						
3	16QAM	8	4	19.72	19.83	19.79										
3	16QAM	8	8	19.80	19.91	19.77			20	2						
3	16QAM	8	16	19.87	19.97	19.87										
3	16QAM	16	0	19.01	19.10	19.08			20	2						
3	84QAM	1	8	18.88	18.99	18.88										
3	84QAM	1	16	18.93	19.03	18.93			19	3						
3	84QAM	8	0	17.78	17.87	17.82										
3	84QAM	8	8	17.75	17.82	17.72			19	3						
3	84QAM	8	16	17.78	17.78	17.73										
3	16QAM	16	0	17.76	17.84	17.78			17	5						
3	256QAM	1	0	15.82	16.00	15.83										
3	256QAM	1	8	15.80	15.91	15.83			17	5						
3	256QAM	1	16	15.77	15.88	15.81										
3	256QAM	8	0	15.86	15.97	15.86			17	5						
3	256QAM	8	8	15.79	15.82	15.81										
3	256QAM	8	16	15.70	15.79	15.71			17	5						
3	256QAM	15	0	15.04	15.02	15.03										
Channel																
Frequency (MHz)																
1.4	QPSK	1	0	18.67	18.80	18.78			22			0				
1.4	QPSK	1	8	20.97	21.09	21.07										
1.4	QPSK	1	16	20.80	21.02	20.98			21	1						
1.4	QPSK	1	8	20.93	20.96	20.88										
1.4	QPSK	3	0	21.04	21.04	20.98			21	1						
1.4	QPSK	3	8	20.92	20.97	20.93										
1.4	QPSK	3	16	20.86	20.90	20.84			21	1						
1.4	QPSK	6	0	19.84	19.92	19.80										
1.4	16QAM	1	0	19.93	20.00	19.96			21	1						
1.4	16QAM	1	8	19.93	19.99	19.93										

Band 38 Ant1									
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Co (dBm)	Power High Co (dBm)	Power High Ch (dBm)	Turn-up test (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.67	21.67	21.67			
20	QPSK	1	49	21.45	21.57	21.49	23	0	
20	QPSK	1	99	21.39	21.48	21.39			
20	QPSK	56	20	20.54	20.61	20.54			
20	QPSK	56	24	20.54	20.61	20.51	22	1	
20	QPSK	56	50	20.53	20.58	20.49			
20	QPSK	56	76	20.53	20.57	20.51			
20	16QAM	1	0	20.60	20.63	20.50			
20	16QAM	1	49	20.60	20.63	20.50	22	1	
20	16QAM	1	99	20.47	20.48	20.48			
20	16QAM	56	0	19.62	19.68	19.61			
20	16QAM	56	24	19.62	19.68	19.60			
20	16QAM	56	50	19.48	19.54	19.48	21	2	
20	16QAM	56	76	19.57	19.64	19.49			
20	16QAM	156	0	19.57	19.64	19.49			
20	16QAM	156	24	19.47	19.57	19.47			
20	16QAM	1	49	19.67	19.66	19.56	21	2	
20	16QAM	1	99	19.40	19.54	19.39			
20	16QAM	56	0	18.47	18.57	18.54			
20	16QAM	56	24	18.53	18.63	18.52	20		
20	16QAM	56	50	18.38	18.48	18.46			
20	16QAM	106	0	18.50	18.60	18.48			
20	256QAM	1	0	16.51	16.56	16.47			
20	256QAM	1	49	16.37	16.46	16.32	18	5	
20	256QAM	1	99	16.46	16.52	16.39			
20	256QAM	56	24	16.34	16.40	16.30			
20	256QAM	56	50	16.60	16.63	16.51	18	5	
20	256QAM	106	0	16.60	16.63	16.50			
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.67	21.67	21.67			
20	QPSK	1	37	21.37	21.43	21.43	23	0	
20	QPSK	1	74	21.26	21.37	21.33			
20	QPSK	56	20	20.47	20.53	20.47			
20	QPSK	56	20	20.47	20.57	20.42	22	1	
20	QPSK	56	20	20.47	20.57	20.42			
20	QPSK	76	0	20.34	20.40	20.38			
20	16QAM	1	0	20.48	20.59	20.38			
20	16QAM	1	49	20.34	20.40	20.38	22	1	
20	16QAM	1	74	20.39	20.54	20.42			
20	16QAM	56	0	19.49	19.45	19.42			
20	16QAM	56	24	19.25	19.43	19.32			
20	16QAM	56	39	19.43	19.48	19.42	21	2	
20	16QAM	76	0	19.44	19.40	19.39			
20	16QAM	76	24	19.38	19.47	19.38			
20	16QAM	1	37	19.48	19.52	19.44	21	2	
20	16QAM	1	74	19.41	19.51	19.39			
20	16QAM	56	0	18.34	18.47	18.42			
20	16QAM	56	20	18.48	18.51	18.48			
20	16QAM	56	20	18.32	18.51	18.24	20	3	
20	16QAM	76	0	18.38	18.53	18.41			
20	256QAM	1	0	16.47	16.51	16.40			
20	256QAM	1	49	16.33	16.43	16.23	18	5	
20	256QAM	1	99	16.46	16.52	16.39			
20	256QAM	56	24	16.34	16.40	16.30			
20	256QAM	56	50	16.60	16.63	16.51	18	5	
20	256QAM	106	0	16.60	16.63	16.50			
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.67	21.67	21.67			
20	QPSK	1	25	21.37	21.53	21.48	23	0	
20	QPSK	1	25	21.37	21.53	21.48			
20	QPSK	1	49	21.30	21.36	21.28			
20	QPSK	1	74	21.24	21.34	21.41			
20	QPSK	56	12	20.48	20.51	20.38			
20	QPSK	56	20	20.48	20.51	20.38			
20	QPSK	56	28	20.48	20.51	20.38			
20	QPSK	56	5	20.42	20.51	20.39			
20	16QAM	1	0	20.47	20.54	20.42			
20	16QAM	1	49	20.34	20.49	20.42	22	1	
20	16QAM	1	99	20.34	20.49	20.38			
20	16QAM	26	0	19.37	19.48	19.44			
20	16QAM	26	19	19.19	19.41	19.40			
20	16QAM	26	19	19.41	19.48	19.41			
20	16QAM	26	19	19.54	19.59	19.34			
20	16QAM	1	0	19.44	19.45	19.44			
20	16QAM	1	25	19.44	19.63	19.41	21	2	
20	16QAM	1	49	19.33	19.43	19.33			
20	16QAM	26	0	18.35	18.33	18.48			
20	16QAM	26	12	18.46	18.52	18.40			
20	16QAM	26	19	18.46	18.52	18.43	20	3	
20	16QAM	56	0	18.42	18.53	18.44			
20	256QAM	1	0	16.46	16.46	16.34			
20	256QAM	1	49	16.34	16.45	16.29	18	5	
20	256QAM	1	99	16.46	16.52	16.39			
20	256QAM	56	12	16.34	16.42	16.29			
20	256QAM	56	20	16.34	16.42	16.29			
20	256QAM	56	28	16.32	16.40	16.40			
20	256QAM	26	12	16.28	16.39	16.30	18	5	
20	256QAM	26	19	16.50	16.59	16.39			
20	256QAM	56	12	16.29	16.40	16.39			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.67	21.67	21.67			
5	QPSK	1	12	21.41	21.46	21.46	23	0	
5	QPSK	1	24	21.30	21.35	21.29			
5	QPSK	12	0	20.42	20.54	20.38			
5	QPSK	12	7	20.42	20.54	20.38	22	1	
5	QPSK	26	0	20.44	20.58	20.36			
5	16QAM	1	0	20.49	20.60	20.49			
5	16QAM	1	12	20.49	20.60	20.49	22	1	
5	16QAM	1	24	20.43	20.55	20.39			
5	16QAM	12	0	19.47	19.58	19.39			
5	16QAM	12	7	19.23	19.38	19.32	21	2	
5	16QAM	12	13	19.41	19.43	19.44			
5	16QAM	26	0	19.42	19.54	19.38			
5	16QAM	1	0	19.44	19.48	19.40			
5	16QAM	1	12	19.47	19.53	19.53	21	2	
5	16QAM	1	49	19.29	19.45	19.30			
5	16QAM	26	13	18.46	18.48	18.49			
5	16QAM	26	19	18.47	18.48	18.47			
5	256QAM	1	0	16.38	16.39	16.38			
5	256QAM	1	12	16.24	16.32	16.28	18	5	
5	256QAM	1	24	16.38	16.43	16.28			
5	256QAM	12	0	16.47	16.47	16.49			
5	256QAM	12	7	16.25	16.29	16.27	18	5	
5	256QAM	26	13	16.54	16.54	16.49			
5	256QAM	26	19	16.38	16.53	16.49			

Band 38 HPUE Ant1									
RF [MHz]	Modulation	RIS Size	RF Offset	Power Low [mW]	Power Mid [mW]	Power High [mW]	Turn-up time (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				37850	38050	38250			
20	QPSK	1	0	23.60	23.60	23.61			
20	QPSK	1	46	23.36	23.49	23.41		24.5	0
20	QPSK	1	99	23.35	23.46	23.38			
20	QPSK	1	151	23.37	23.47	23.51			
20	QPSK	50	24	23.46	23.59	23.56		24.5	0
20	QPSK	50	50	23.46	23.49	23.49			
20	QPSK	50	99	23.46	23.49	23.59			
20	16QAM	1	0	23.56	23.61	23.57			
20	16QAM	1	46	23.56	23.66	23.58		24.5	0
20	16QAM	1	99	23.56	23.57	23.56			
20	16QAM	50	0	22.83	22.98	22.94			
20	16QAM	50	24	22.83	22.98	22.98			
20	16QAM	50	50	22.80	22.87	22.85		24	0.5
20	16QAM	100	0	22.58	22.67	22.55			
20	16QAM	100	24	22.58	22.67	22.73			
20	64QAM	1	49	22.69	22.74	22.59		24	0.5
20	64QAM	1	99	22.63	22.62	22.69			
20	64QAM	50	0	22.50	22.58	22.58			
20	64QAM	50	24	22.49	22.62	22.63			
20	64QAM	50	50	22.46	22.55	22.41		23	1.5
20	64QAM	100	0	21.55	21.60	21.53			
20	256QAM	1	0	19.62	19.71	19.63			
20	256QAM	1	46	19.62	19.62	19.62		21	3.5
20	256QAM	1	99	19.63	19.67	19.56			
20	256QAM	50	0	19.53	19.58	19.52			
20	256QAM	50	24	19.53	19.58	19.43		21	3.5
20	256QAM	50	50	19.61	19.64	19.54			
20	256QAM	100	0	19.48	19.54	19.41			
Channel									
Frequency (MHz)				37925	38075	38225	Turn-up time (dBm)	MFR (dB)	
15	QPSK	1	0	23.35	23.35	23.37			
15	QPSK	1	37	23.25	23.39	23.28		24.5	0
15	QPSK	1	74	23.30	23.38	23.30			
15	QPSK	25	0	23.35	23.35	23.39			
15	QPSK	36	20	23.35	23.49	23.48		24.5	0
15	QPSK	36	25	23.49	23.52	23.48			
15	16QAM	1	0	23.61	23.60	23.62			
15	16QAM	1	37	23.37	23.48	23.43		24.5	0
15	16QAM	1	74	23.43	23.48	23.52			
15	16QAM	36	0	22.40	22.47	22.38			
15	16QAM	36	20	22.42	22.46	22.42			
15	16QAM	36	36	22.48	22.54	22.53		24	0.5
15	16QAM	75	0	22.45	22.51	22.43			
15	16QAM	75	0	22.49	22.52	22.46			
15	64QAM	1	37	22.46	22.48	22.51		24	0.5
15	64QAM	1	74	22.46	22.46	22.58			
15	64QAM	36	0	22.43	22.54	22.39			
15	64QAM	36	20	22.47	22.56	22.47			
15	64QAM	75	0	21.41	21.55	21.41		23	1.5
15	256QAM	1	0	19.55	19.63	19.55			
15	256QAM	1	37	19.45	19.49	19.45		21	3.5
15	256QAM	1	74	19.56	19.65	19.49			
15	256QAM	25	0	19.42	19.42	19.42			
15	256QAM	25	0	19.45	19.45	19.45			
15	256QAM	36	30	19.67	19.68	19.40			
15	256QAM	75	0	19.33	19.38	19.38			
Channel									
Frequency (MHz)				37900	38050	38200	Turn-up time (dBm)	MFR (dB)	
10	QPSK	1	0	23.35	23.41	23.37			
10	QPSK	1	25	23.24	23.36	23.33		24.5	0
10	QPSK	1	40	23.24	23.34	23.31			
10	QPSK	1	55	23.24	23.34	23.31			
10	QPSK	25	12	23.33	23.44	23.43		24.5	0
10	QPSK	25	25	23.44	23.47	23.41			
10	QPSK	50	0	23.41	23.48	23.55			
10	16QAM	1	0	23.58	23.61	23.60			
10	16QAM	1	25	23.58	23.61	23.57		24.5	0
10	16QAM	1	49	23.44	23.59	23.49			
10	16QAM	25	0	22.44	22.45	22.38			
10	16QAM	25	12	22.46	22.46	22.39			
10	16QAM	25	25	22.51	22.60	22.47		24	0.5
10	16QAM	50	0	22.53	22.53	22.41			
10	64QAM	1	0	22.59	22.73	22.55			
10	64QAM	1	25	22.63	22.65	22.47		24	0.5
10	64QAM	1	49	22.63	22.65	22.59			
10	64QAM	25	0	22.43	22.51	22.39			
10	64QAM	25	12	22.42	22.54	22.38			
10	64QAM	25	25	22.45	22.54	22.31		23	1.5
10	64QAM	50	0	21.42	21.48	21.43			
10	256QAM	1	0	19.49	19.49	19.47			
10	256QAM	1	25	19.38	19.48	19.42		21	3.5
10	256QAM	1	49	19.49	19.62	19.50			
10	256QAM	25	0	19.30	19.40	19.44			
10	256QAM	25	12	19.40	19.48	19.36		21	3.5
10	256QAM	25	25	19.52	19.58	19.47			
10	256QAM	50	0	19.38	19.39	19.38			
Channel									
Frequency (MHz)				37975	38080	38220	Turn-up time (dBm)	MFR (dB)	
5	QPSK	1	0	23.43	23.48	23.41			
5	QPSK	1	12	23.22	23.40	23.25		24.5	0
5	QPSK	1	24	23.24	23.36	23.28			
5	QPSK	12	0	23.53	23.58	23.55			
5	QPSK	12	7	23.33	23.49	23.51			
5	QPSK	12	12	23.41	23.45	23.38			
5	QPSK	25	0	23.48	23.47	23.58			
5	16QAM	1	0	23.62	23.61	23.62			
5	16QAM	1	12	23.58	23.61	23.43		24.5	0
5	16QAM	1	24	23.47	23.58	23.50			
5	16QAM	12	0	22.46	22.46	22.39			
5	16QAM	12	7	22.45	22.46	22.29			
5	16QAM	12	13	22.57	22.66	22.48			
5	16QAM	25	0	22.46	22.50	22.47			
5	64QAM	1	0	22.60	22.62	22.49			
5	64QAM	1	12	22.52	22.63	22.46		24	0.5
5	64QAM	1	24	22.45	22.45	22.51			
5	64QAM	12	0	22.45	22.52	22.40			
5	64QAM	12	7	22.37	22.42	22.39			
5	64QAM	12	13	22.45	22.45	22.39		23	1.5
5	256QAM	1	0	21.41	21.53	21.41			
5	256QAM	1	12	19.50	19.52	19.50		21	3.5
5	256QAM	1	24	19.49	19.60	19.48			
5	256QAM	12	0	19.30	19.31	19.30			
5	256QAM	12	7	19.39	19.51	19.37		21	3.5
5	256QAM	12	13	19.48	19.55	19.39			
5	256QAM	25	0	19.34	19.51	19.44			

Band 41 Ant1												
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Mid Ch / Freq.	Power High Mid Ch / Freq.	Power Low Hgh Ch / Freq.	Power High Hgh Ch / Freq.	Turn-up time (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				39792	40188	40620	41066	41490	41915			
Power (dBm)				24.44	24.44	24.44	24.44	24.44	24.44			
20	QPSK	1	0	21.44	21.64	21.70	21.59	21.61	21.61	23	0	
20	QPSK	1	40	21.39	21.48	21.58	21.49	21.47	21.47			
20	QPSK	1	80	21.51	21.51	21.61	21.51	21.51	21.51			
20	QPSK	50	0	20.51	20.64	20.68	20.58	20.48	20.48			
20	QPSK	50	24	20.36	20.45	20.57	20.48	20.38	20.38			
20	QPSK	50	48	20.58	20.54	20.54	20.51	20.52	20.52	22	1	
20	QPSK	100	0	20.41	20.53	20.60	20.52	20.44	20.44			
20	16QAM	1	0	20.46	20.56	20.61	20.46	20.49	20.49			
20	16QAM	1	40	20.38	20.37	20.51	20.45	20.32	20.32			
20	16QAM	1	80	20.38	20.46	20.58	20.49	20.43	20.43			
20	16QAM	50	0	19.33	19.42	19.55	19.46	19.44	19.44	21	2	
20	16QAM	50	24	19.22	19.40	19.46	19.34	19.26	19.26			
20	16QAM	50	50	19.38	19.44	19.52	19.48	19.40	19.40			
20	16QAM	100	0	18.44	18.44	18.55	18.51	18.41	18.41			
20	16QAM	100	0	18.55	19.04	19.74	19.57	19.55	19.55			
20	16QAM	1	40	19.47	19.52	19.63	19.49	19.43	19.43	21	2	
20	16QAM	1	80	19.52	19.57	19.60	19.52	19.53	19.53			
20	16QAM	50	0	18.35	18.46	18.52	18.39	18.33	18.33			
20	16QAM	50	24	18.20	18.35	18.40	18.28	18.24	18.24			
20	16QAM	50	50	18.24	18.34	18.48	18.37	18.25	18.25			
20	16QAM	100	0	18.39	18.50	18.61	18.53	18.47	18.47	20	3	
20	256QAM	1	0	18.46	18.54	18.67	18.58	18.51	18.51			
20	256QAM	1	40	18.55	18.60	18.71	18.59	18.56	18.56			
20	256QAM	1	80	18.46	18.48	18.62	18.48	18.47	18.47			
20	256QAM	50	0	18.47	18.57	18.67	18.47	18.38	18.38			
20	256QAM	50	24	18.35	18.45	18.54	18.48	18.40	18.40	18	5	
20	256QAM	50	50	18.49	18.57	18.68	18.61	18.54	18.54			
20	256QAM	100	0	18.48	18.47	18.73	18.64	18.53	18.53			
Channel												
Frequency (MHz)				39792	40173	40620	41066	41615	41915			
Power (dBm)				23.53	23.48	23.93	23.73	23.92	23.92			
18	QPSK	1	0	21.33	21.69	21.63	21.54	21.53	21.53	23	0	
18	QPSK	1	37	21.38	21.34	21.46	21.44	21.38	21.38			
18	QPSK	1	74	21.40	21.41	21.60	21.48	21.41	21.41			
18	QPSK	36	0	20.44	20.60	20.60	20.50	20.34	20.34			
18	QPSK	36	20	20.30	20.39	20.52	20.35	20.26	20.26			
18	QPSK	36	40	20.27	20.35	20.46	20.40	20.34	20.34	22	1	
18	QPSK	75	0	20.27	20.44	20.48	20.46	20.34	20.34			
18	16QAM	1	0	20.38	20.44	20.56	20.33	20.44	20.44			
18	16QAM	1	37	20.28	20.35	20.45	20.32	20.25	20.25			
18	16QAM	1	74	20.27	20.38	20.45	20.37	20.37	20.37			
18	16QAM	36	0	19.20	19.39	19.48	19.37	19.41	19.41	21	2	
18	16QAM	36	20	19.26	19.37	19.51	19.31	19.25	19.25			
18	16QAM	36	36	19.33	19.39	19.47	19.37	19.31	19.31			
18	16QAM	75	0	19.29	19.37	19.45	19.47	19.32	19.32			
18	16QAM	1	0	19.45	19.53	19.71	19.61	19.49	19.49			
18	16QAM	1	37	19.38	19.43	19.58	19.44	19.37	19.37	21	2	
18	16QAM	1	74	19.46	19.54	19.59	19.52	19.35	19.35			
18	16QAM	36	0	18.30	18.32	18.42	18.30	18.30	18.30			
18	16QAM	36	20	18.05	18.31	18.38	18.29	18.19	18.19			
18	16QAM	36	36	18.08	18.28	18.35	18.24	18.13	18.13			
18	16QAM	75	0	18.24	18.44	18.48	18.45	18.43	18.43	20	3	
18	256QAM	1	0	18.40	18.42	18.59	18.49	18.44	18.44			
18	256QAM	1	37	18.41	18.44	18.54	18.41	18.35	18.35			
18	256QAM	1	74	18.34	18.42	18.58	18.34	18.42	18.42			
18	256QAM	36	0	18.20	18.36	18.53	18.40	18.22	18.22			
18	256QAM	36	20	18.32	18.31	18.44	18.41	18.25	18.25	18	5	
18	256QAM	36	36	18.34	18.49	18.55	18.52	18.48	18.48			
18	256QAM	75	0	18.36	18.50	18.58	18.58	18.50	18.50			
Channel												
Frequency (MHz)				39792	40160	40620	41066	41540	41940			
Power (dBm)				23.01	23.47	23.93	23.73	23.92	23.92			
18	QPSK	1	0	21.40	21.68	21.62	21.47	21.44	21.43	23.00	0	
18	QPSK	1	25	21.32	21.43	21.47	21.44	21.41	21.41			
18	QPSK	1	49	21.47	21.46	21.50	21.49	21.44	21.44			
18	QPSK	25	0	20.48	20.50	20.58	20.45	20.38	20.38			
18	QPSK	25	12	20.22	20.38	20.42	20.30	20.26	20.26			
18	QPSK	25	25	20.23	20.38	20.45	20.39	20.19	20.19	22	1	
18	QPSK	50	0	20.20	20.42	20.48	20.45	20.32	20.32			
18	16QAM	1	0	20.34	20.41	20.54	20.35	20.48	20.48			
18	16QAM	1	25	20.30	20.30	20.38	20.31	20.22	20.22			
18	16QAM	1	49	20.27	20.37	20.44	20.36	20.34	20.34			
18	16QAM	25	0	19.29	19.38	19.45	19.33	19.34	19.34	21	2	
18	16QAM	25	12	19.36	19.26	19.31	19.26	19.11	19.11			
18	16QAM	25	25	19.35	19.30	19.47	19.43	19.32	19.32			
18	16QAM	50	0	19.40	19.37	19.55	19.37	19.32	19.32			
18	16QAM	1	0	19.50	19.53	19.65	19.63	19.41	19.41			
18	16QAM	1	25	19.44	19.44	19.50	19.38	19.31	19.31	21	2	
18	16QAM	1	49	19.42	19.47	19.55	19.49	19.47	19.47			
18	16QAM	25	0	18.25	18.36	18.43	18.25	18.19	18.19			
18	16QAM	25	12	18.13	18.31	18.31	18.24	18.14	18.14			
18	16QAM	25	25	18.16	18.30	18.44	18.26	18.22	18.22			
18	16QAM	50	0	18.30	18.45	18.57	18.46	18.37	18.37	20	3	
18	256QAM	1	0	18.39	18.40	18.56	18.52	18.43	18.43			
18	256QAM	1	25	18.47	18.50	18.64	18.52	18.51	18.51			
18	256QAM	1	49	18.38	18.34	18.48	18.36	18.40	18.40			
18	256QAM	25	0	18.25	18.44	18.52	18.38	18.21	18.21			
18	256QAM	25	12	18.32	18.39	18.42	18.37	18.20	18.20	18	5	
18	256QAM	25	25	18.35	18.42	18.57	18.52	18.48	18.48			
18	256QAM	50	0	18.33	18.58	18.63	18.61	18.42	18.42			
Channel												
Frequency (MHz)				39875	40148	40620	41066	41665	41965			
Power (dBm)				23.01	23.48	23.93	23.73	23.92	23.92			
5	QPSK	1	0	21.38	21.65	21.55	21.48	21.39	21.39	23.00	0	
5	QPSK	1	12	21.28	21.54	21.44	21.39	21.33	21.33			
5	QPSK	1	24	21.36	21.40	21.50	21.51	21.47	21.47			
5	QPSK	12	0	20.37	20.51	20.61	20.42	20.42	20.39	23	0	
5	QPSK	12	7	20.23	20.59	20.61	20.40	20.29	20.29			
5	QPSK	12	14	20.25	20.77	20.77	20.42	20.27	20.27			
5	QPSK	25	0	20.27	20.50	20.59	20.44	20.31	20.31			
5	QPSK	25	10	20.41	20.46	20.54	20.39	20.39	20.39			
5	16QAM	1	0	20.41	20.46	20.54	20.39	20.39	20.39	22	1	
5	16QAM	1	12	20.37	20.42	20.50	20.35	20.27	20.27			
5	16QAM	1	24	20.26	20.32	20.43	20.35	20.29	20.29			
5	16QAM	12	7	20.27	20.52	20.52	20.33	20.21	20.21			
5	16QAM	12	14	19.16	19.33	19.36	19.30	19.18	19.18			
5	16QAM	12	19	19.33	19.33	19.44	19.44	19.25	19.25	21	2	
5	16QAM	25	0	19.38	19.32	19.42	19.37	19.30	19.30			
5	16QAM	1	0	19.53	19.54	19.66	19.55	19.50	19.50			
5	16QAM	1	12	19.38	19.38	19.47	19.39	19.36	19.36			
5	16QAM	1	24	19.38	19.46	19.53	19.47	19.40	19.40			
5	16QAM	12	0	18.20	18.35	18.41	18.27	18.23	18.23	20	3	
5	16QAM	12	7	18.17	18.23	18.31	18.19	18.12	18.12			
5	16QAM	12	14	18.18	18.31	18.41	18.21	18.17	18.17			
5	16QAM	25	0	18.30	18.47	18.55	18.50	18.38	18.38			
5	16QAM	25	10	18.40	18.45	18.56	18.51	18.45	18.45			
5	256QAM	1	0	18.50	18.56	18.63	18.55	18.49	18.49	18	5	
5	256QAM	1	24	18.44	18.35	18.48	18.41	18.43	18.43			
5	256QAM	12	0	18.24	18.44	18.47	18.42	18.24	18.24			
5	256QAM	12	7	18.27	18.37	18.45	18.41	18.37	18.37			
5	256QAM	12	19	18.42	18.53	18.62	18.56	18.47	18.47			
5	256QAM	25	0	18.43	18.52	18.60	18.55	18.46	18.46	18	5	
5	256QAM	25	10	18.46	18.46	18.60	18.55	18.46	18.46			
5	256QAM	50	0	18.46	18.56	18.63	18.63	18.46	18.46			
Channel												

GSM1900 A/G									
Tx Channel		Base Average Power (dBm)			Tx Power		Frame Average Power (dBm)		
Tx Channel		812	861	810	Limit	812	861	810	Limit
Transmit (dBm)		100.0	100.0	100.0	(dBm)	100.0	100.0	100.0	(dBm)
CRM 1 Tx Wd		20.31	20.34	20.40	30.00	20.31	20.34	20.40	21.00
CRM 1 Tx Wd		20.34	20.47	20.43	30.00	20.34	20.47	20.43	21.00
CRM 3 Tx Wd		20.08	20.84	20.72	27.00	19.88	19.84	19.72	21.00
CRM 3 Tx Wd		24.42	24.35	24.48	25.00	20.18	20.09	20.22	21.24
CRM 4 Tx Wd		21.84	21.00	21.88	23.00	18.64	18.00	18.88	20.00
EDGE 1 Tx Wd		23.82	23.87	23.88	25.00	14.82	14.87	14.88	16.00
EDGE 2 Tx Wd		22.10	22.78	22.13	23.00	14.10	16.18	14.13	17.00
EDGE 4 Tx Wd		20.00	20.00	20.00	22.00	18.64	16.72	16.80	17.24
EDGE 4 Tx Wd		18.75	18.81	18.81	20.00	18.75	18.80	18.81	17.00
WCDMA 1 A/G									
Band		WCDMA 1 A/G			Tx Power		WCDMA 1 A/G		
Tx Channel		5862	5900	5938	Limit	5862	5900	5938	Limit
Tx Channel		5902	5900	5938	(dBm)	5902	5900	5938	(dBm)
Transmit (dBm)		19.69	19.54	19.50	25.00	19.18	19.53	19.41	25.00
SOPP Rel 56		23.49	23.54	23.50	25.00	23.18	23.53	23.41	25.00
SOPP Rel 56		23.45	23.62	23.55	25.00	23.37	23.62	23.46	25.00
SOPP Rel 6		23.25	23.42	23.38	24.00	23.02	23.31	23.24	24.00
SOPP Rel 6		23.18	23.40	23.32	24.00	23.30	23.49	23.39	24.00
SOPP Rel 6		22.75	22.73	22.72	23.00	22.60	22.71	22.69	23.00
SOPP Rel 6		22.71	22.70	22.74	23.00	22.83	22.66	22.83	23.00
SOPP Rel 6		22.40	22.21	22.34	24.00	22.00	22.04	22.14	24.00
SOPP Rel 6		23.15	23.35	23.34	24.00	23.17	23.34	23.17	24.00
SOPP Rel 6		22.75	22.76	22.74	23.00	22.85	22.83	22.86	23.00
SOPP Rel 6		22.77	22.81	22.77	23.00	22.81	23.12	22.87	23.00
SOPP Rel 6		23.32	23.33	23.36	25.00	23.02	23.11	23.26	25.00
SOPP Rel 6		21.82	21.83	21.81	23.00	21.66	21.82	21.81	23.00
SOPP Rel 6		22.30	22.53	22.34	24.00	22.02	22.05	22.21	24.00
SOPP Rel 6		21.31	21.23	21.35	23.00	21.05	21.01	21.15	23.00
SOPP Rel 6		23.32	23.35	23.36	25.00	23.08	23.12	23.31	25.00

Band 2 Ant2													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 18000	Power High Ch./Freq. 18000	Power High Ch./Freq. 18000	Turnup time (sec)	MPR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	22.58	22.70	22.65			24	0			
20	QPSK	1	49	22.48	22.60	22.55							
20	QPSK	1	99	22.50	22.64	22.57			23	1			
20	QPSK	50	0	21.61	21.70	21.62							
20	QPSK	50	24	21.64	21.71	21.68							
20	QPSK	50	50	21.47	21.62	21.50							
20	QPSK	100	0	21.52	21.67	21.59			23	1			
20	16QAM	50	0	21.70	21.79	21.75							
20	16QAM	1	49	21.62	21.76	21.71			22	2			
20	16QAM	1	99	21.77	21.82	21.78							
20	16QAM	50	0	20.51	20.62	20.49			21	3			
20	16QAM	50	24	20.58	20.67	20.55							
20	16QAM	50	50	20.57	20.72	20.66							
20	16QAM	100	0	20.54	20.69	20.59							
20	64QAM	1	0	20.59	20.74	20.67			21	3			
20	64QAM	1	49	20.77	20.90	20.80							
20	64QAM	50	0	20.61	20.73	20.63			20	5			
20	64QAM	50	0	19.54	19.59	19.55							
20	64QAM	50	24	19.55	19.65	19.52							
20	64QAM	50	50	19.64	19.75	19.62							
20	64QAM	100	0	19.53	19.63	19.58			19	5			
20	256QAM	1	49	17.76	17.87	17.80							
20	256QAM	1	99	17.66	17.75	17.67			19	5			
20	256QAM	50	0	17.60	17.64	17.62							
20	256QAM	50	24	17.54	17.61	17.49							
20	256QAM	50	50	17.65	17.71	17.61							
20	256QAM	100	0	17.54	17.59	17.57							
Channel													
Frequency (MHz)													
16	QPSK	1	0	22.44	22.46	22.41			24	0			
16	QPSK	1	74	22.41	22.47	22.43							
16	QPSK	1	74	22.47	22.57	22.43			23	1			
16	QPSK	36	0	21.53	21.67	21.51							
16	QPSK	36	20	21.57	21.66	21.59							
16	QPSK	36	39	21.35	21.58	21.43							
16	QPSK	75	0	21.49	21.58	21.55			23	1			
16	16QAM	1	21.61	21.68	21.63								
16	16QAM	1	37	21.59	21.62	21.61			22	2			
16	16QAM	36	0	20.38	20.57	20.38							
16	16QAM	36	20	20.50	20.62	20.59							
16	16QAM	36	39	20.48	20.72	20.55							
16	16QAM	75	0	20.52	20.59	20.53			22	2			
16	64QAM	1	0	20.46	20.60	20.50							
16	64QAM	1	37	20.54	20.70	20.64			21	3			
16	64QAM	1	74	20.50	20.62	20.59							
16	64QAM	36	0	19.48	19.61	19.51							
16	64QAM	36	20	19.44	19.68	19.54							
16	64QAM	36	39	19.49	19.65	19.51			19	5			
16	64QAM	75	0	19.39	19.59	19.47							
16	256QAM	1	0	17.50	17.55	17.50			19	5			
16	256QAM	1	37	17.69	17.70	17.72							
16	256QAM	1	74	17.60	17.68	17.58							
16	256QAM	36	0	17.51	17.58	17.56							
16	256QAM	36	20	17.39	17.50	17.42			19	5			
16	256QAM	36	39	17.52	17.66	17.55							
16	256QAM	75	0	17.46	17.59	17.43							
Channel													
Frequency (MHz)													
10	QPSK	1	0	22.60	22.67	22.63			24	0			
10	QPSK	1	25	22.57	22.52	22.45							
10	QPSK	1	49	22.41	22.53	22.53			23	1			
10	QPSK	36	0	21.56	21.66	21.57							
10	QPSK	25	12	21.56	21.57	21.54							
10	QPSK	25	25	21.36	21.47	21.40							
10	QPSK	50	0	21.62	21.68	21.64			23	1			
10	16QAM	1	0	21.62	21.67	21.52							
10	16QAM	1	26	21.53	21.64	21.61			22	2			
10	16QAM	1	51	21.60	21.69	21.64							
10	16QAM	25	0	20.37	20.57	20.39							
10	16QAM	25	12	20.43	20.62	20.49							
10	16QAM	36	0	20.50	20.63	20.57			21	3			
10	16QAM	36	20	20.50	20.70	20.59							
10	16QAM	50	0	20.55	20.67	20.59			22	2			
10	64QAM	1	0	20.51	20.62	20.53							
10	64QAM	1	24	20.52	20.61	20.58			21	3			
10	64QAM	1	49	20.48	20.64	20.57							
10	64QAM	25	0	19.46	19.54	19.50							
10	64QAM	25	12	19.42	19.54	19.48							
10	64QAM	25	25	19.53	19.70	19.55			19	5			
10	64QAM	50	0	19.49	19.54	19.52							
10	256QAM	1	0	17.55	17.58	17.58			19	5			
10	256QAM	1	26	17.69	17.67	17.66							
10	256QAM	1	49	17.60	17.70	17.54							
10	256QAM	25	0	17.46	17.51	17.50							
10	256QAM	25	12	17.45	17.50	17.57			19	5			
10	256QAM	25	25	17.52	17.61	17.53							
10	256QAM	50	0	17.43	17.48	17.48							
Channel													
Frequency (MHz)													
5	QPSK	1	0	22.40	22.50	22.45			24	0			
5	QPSK	1	12	22.42	22.52	22.49							
5	QPSK	1	24	22.42	22.52	22.54			23	1			
5	QPSK	12	0	21.52	21.73	21.60							
5	QPSK	12	7	21.56	21.57	21.52							
5	QPSK	12	13	21.39	21.50	21.44							
5	QPSK	25	0	21.43	21.58	21.46			23	1			
5	16QAM	1	0	21.62	21.65	21.54							
5	16QAM	1	12	21.58	21.62	21.66			22	2			
5	16QAM	1	24	21.65	21.70	21.67							
5	16QAM	12	0	20.41	20.52	20.38							
5	16QAM	12	7	20.47	20.60	20.45							
5	16QAM	12	13	20.44	20.58	20.50			21	3			
5	16QAM	25	0	20.59	20.66	20.58							
5	64QAM	1	0	20.46	20.56	20.52			22	2			
5	64QAM	1	12	20.44	20.71	20.52							
5	64QAM	1	24	20.51	20.58	20.54							
5	64QAM	12	0	19.39	19.53	19.55							
5	64QAM	12	7	19.45	19.55	19.43			21	3			
5	64QAM	12	13	19.50	19.63	19.59							
5	64QAM	25	0	19.49	19.57	19.50			19	5			
5	256QAM	1	0	17.47	17.60	17.58							
5	256QAM	1	12	17.68	17.77	17.71			19	5			
5	256QAM	1	24	17.56	17.66	17.63							
5	256QAM	12	0	17.49	17.59	17.43							
5	256QAM	12	7	17.50	17.47	17.51							
5	256QAM	12	13	17.50	17.69	17.54			19	5			
5	256QAM	25	0	17.49	17.50	17.45							
Channel													
Frequency (MHz)													
3	QPSK	1	0	22.54	22.57	22.55			24	0			
3	QPSK	1	8	22.42	22.57	22.44							
3	QPSK	1	14	22.47	22.51	22.46			23	1			
3	QPSK	8	0	21.51	21.66	21.51							
3	QPSK	8	4	21.52	21.61	21.58							
3	QPSK	8	7	21.40	21.53	21.44							
3	QPSK	15	0	21.39	21.63	21.47			23	1			
3	16QAM	1	0	21.62	21.72	21.62							
3	16QAM	1	8	21.54	21.64	21.61			23	1			
3	16QAM	1	14	21.67	21.78	21.72							
3	16QAM	1	20	21.41	20.63	20.43			22	2			
3	16QAM	1	26	20.43	20.56	20.48							
3	16QAM	8	0	20.47	20.63	20.57			21	3			
3	16QAM	15	0	20.60	20.59	20.50							
3	16QAM	15	8	20.45	20.63	20.49			22	2			
3	16QAM	15	14	20.63	20.68	20.54							
3	16QAM	15	20	20.49	20.64	20.55			21	3			
3	16QAM	8	4	19.48	19.52	19.48							
3	16QAM	8	7	19.50	19.54	19.47			19	5			
3	256QAM	1	0	17.55	17.65	17.54							
3	256QAM	1	8	17.66	17.75	17.70			19	5			
3	256QAM	1	14	17.61	17.73	17.68							
3	256QAM	15	0	17.42	17.47	17.47							
3	256QAM	15	8	17.52	17.59	17.47							
3	256QAM	15	14	17.40	17.46	17.45							
Channel													
Frequency (MHz)													
1.4	QPSK	1	0	22.43	22.64	22.50			24	0			
1.4	QPSK	1	8	22.40	22.55	22.45							
1.4	QPSK	1	14	22.38	22.60	22.45			23	1			
1.4	QPSK	3	0	22.00	22.62	22.55							
1.4	QPSK	3	7	22.04	22.62	22.58							
1.4	QPSK	3	14	22.05	22.52	22.52							
1.4	QPSK	6	0	21.46	21.58	21.46			23	1			
1.4	16QAM	1	0	21.73	21.73	21.66							
1.4	16QAM	1	3	21.54	21.63	21.56			22	2			
1.4	16QAM	1	6	21.85	21.76	21.74							
1.4	16QAM	3	0	21.53	21.52	21.42							
1.4	16QAM	3	3	21.48	21.48	21.37							
1.4	16QAM	6	0	20.47	20.61	20.50			22	2			
1.4	16QAM	6	3	20.66	20.73	20.65							
1.4	16QAM	6	6	20.51	20.69	20.61			21	3			
1.4	16QAM	6	9	20.43	20.62	20.48							
1.4	16QAM	3	0	19.50	19.49	19.47			19	5			
1.4	16QAM	3	3	17.50	17.64	17.58							
1.4	16QAM	3	6	17.42	17.57	17.47			19	5			
1.4	16Q												

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)	Time-up (ms)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.56	22.72	22.83	24	0				
20	QPSK	1	49	22.54	22.68	22.67						
20	QPSK	1	99	22.52	22.69	22.87						
20	QPSK	50	0	21.68	21.75	21.70						
20	QPSK	50	24	21.67	21.64	21.63	23	1				
20	QPSK	50	50	21.63	21.71	21.83						
20	QPSK	100	0	21.50	21.63	21.55						
20	16QAM	1	0	21.62	21.73	21.79						
20	16QAM	1	49	21.56	21.70	21.85	23	1				
20	16QAM	1	99	21.55	21.64	21.67						
20	16QAM	50	0	20.62	20.69	20.65						
20	16QAM	50	24	20.50	20.53	20.50						
20	16QAM	50	50	20.67	20.71	20.66	22	2				
20	16QAM	100	0	20.59	20.70	20.63						
20	64QAM	1	0	20.65	20.70	20.63						
20	64QAM	1	49	20.63	20.77	20.72						
20	64QAM	1	99	20.57	20.62	20.54	21	3				
20	64QAM	50	0	19.53	19.63	19.51						
20	64QAM	50	24	19.59	19.69	19.56						
20	64QAM	50	50	19.51	19.54	19.65						
20	256QAM	1	0	17.64	17.77	17.62	19	5				
20	256QAM	1	49	17.58	17.62	17.53						
20	256QAM	1	99	17.65	17.74	17.67						
20	256QAM	50	0	17.56	17.64	17.61						
20	256QAM	50	24	17.56	17.68	17.58						
20	256QAM	50	50	17.67	17.73	17.64						
20	256QAM	100	0	17.66	17.69	17.71						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.57	22.66	22.67	24	0				
15	QPSK	1	37	22.43	22.62	22.53						
15	QPSK	1	74	22.47	22.60	22.34						
15	QPSK	36	0	21.83	21.87	21.58						
15	QPSK	36	39	21.51	21.59	21.60	23	1				
15	QPSK	75	0	21.43	21.57	21.42						
15	16QAM	1	0	21.48	21.60	21.61						
15	16QAM	1	37	21.46	21.65	21.59						
15	16QAM	1	74	21.47	21.57	21.42	23	1				
15	16QAM	36	0	20.54	20.62	20.60						
15	16QAM	36	20	20.48	20.57	20.39						
15	16QAM	50	0	20.48	20.55	20.57						
15	16QAM	50	24	20.50	20.54	20.51	22	2				
15	16QAM	75	0	20.48	20.55	20.57						
15	64QAM	1	0	20.57	20.57	20.58						
15	64QAM	1	37	20.60	20.62	20.64						
15	64QAM	36	0	19.46	19.53	19.43	21	3				
15	64QAM	36	39	19.55	19.56	19.52						
15	64QAM	75	0	19.54	19.58	19.57						
15	256QAM	1	0	17.53	17.65	17.54						
15	256QAM	1	37	17.49	17.54	17.41	19	5				
15	256QAM	1	74	17.53	17.66	17.63						
15	256QAM	36	0	17.65	17.62	17.42						
15	256QAM	36	20	17.47	17.53	17.48						
15	256QAM	36	39	17.67	17.69	17.59	20	0				
15	256QAM	75	0	17.61	17.68	17.55						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.59	22.62	22.62	24	0				
10	QPSK	1	25	22.42	22.57	22.50						
10	QPSK	1	49	22.38	22.51	22.34						
10	QPSK	25	0	21.53	21.67	21.58						
10	QPSK	25	12	21.42	21.58	21.44	23	1				
10	QPSK	25	25	21.59	21.66	21.60						
10	QPSK	50	0	21.39	21.61	21.48						
10	16QAM	1	0	21.58	21.60	21.62						
10	16QAM	1	25	21.47	21.65	21.51	23	1				
10	16QAM	1	50	21.50	21.63	21.63						
10	16QAM	25	0	20.48	20.57	20.39						
10	16QAM	25	12	20.54	20.58	20.38						
10	16QAM	50	0	20.56	20.58	20.44	22	2				
10	16QAM	50	24	20.50	20.54	20.58						
10	64QAM	1	0	20.58	20.63	20.52						
10	64QAM	1	25	20.54	20.58	20.58						
10	64QAM	1	49	20.52	20.49	20.48	21	3				
10	64QAM	25	0	19.45	19.58	19.45						
10	64QAM	25	12	19.55	19.55	19.47						
10	64QAM	25	25	19.54	19.63	19.55						
10	64QAM	50	0	19.51	19.56	19.46	19	5				
10	256QAM	1	0	17.58	17.72	17.55						
10	256QAM	1	25	17.48	17.48	17.41						
10	256QAM	1	49	17.56	17.62	17.52						
10	256QAM	25	0	17.44	17.58	17.38	19	5				
10	256QAM	25	12	17.49	17.59	17.36						
10	256QAM	25	25	17.64	17.60	17.58						
10	256QAM	50	0	17.58	17.62	17.51						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.47	22.55	22.55	24	0				
5	QPSK	1	12	22.46	22.62	22.44						
5	QPSK	1	24	22.37	22.55	22.36						
5	QPSK	12	0	21.54	21.71	21.62						
5	QPSK	12	7	21.44	21.60	21.37	23	1				
5	QPSK	12	13	21.67	21.62	21.59						
5	QPSK	25	0	21.48	21.53	21.47						
5	16QAM	1	0	21.50	21.68	21.59						
5	16QAM	1	12	21.45	21.66	21.59	23	1				
5	16QAM	1	24	21.43	21.45	21.11						
5	16QAM	12	0	20.57	20.59	20.53						
5	16QAM	12	7	20.53	20.53	20.39						
5	16QAM	12	13	20.56	20.52	20.45	22	2				
5	16QAM	25	0	20.48	20.56	20.38						
5	64QAM	1	0	20.54	20.57	20.50						
5	64QAM	1	12	20.56	20.70	20.58						
5	64QAM	1	24	20.46	20.47	20.47	21	3				
5	64QAM	12	0	19.39	19.53	19.41						
5	64QAM	12	7	19.54	19.59	19.48						
5	64QAM	12	13	19.57	19.69	19.62						
5	64QAM	25	0	19.62	19.65	19.56	19	5				
5	256QAM	1	0	17.53	17.67	17.56						
5	256QAM	1	12	17.54	17.53	17.39						
5	256QAM	1	24	17.60	17.70	17.62						
5	256QAM	12	0	17.48	17.53	17.43	19	5				
5	256QAM	12	7	17.41	17.62	17.48						
5	256QAM	12	13	17.58	17.65	17.59						
5	256QAM	25	0	17.63	17.65	17.53						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.51	22.60	22.53	24	0				
3	QPSK	1	8	22.42	22.59	22.45						
3	QPSK	1	14	22.39	22.47	22.43						
3	QPSK	3	0	21.58	21.67	21.57						
3	QPSK	6	4	21.52	21.61	21.36	23	1				
3	QPSK	6	7	21.58	21.60	21.58						
3	QPSK	15	0	21.46	21.65	21.48						
3	16QAM	1	0	21.49	21.69	21.62	23	1				
3	16QAM	1	8	21.45	21.61	21.57						
3	16QAM	1	14	21.42	21.57	21.53						
3	16QAM	3	0	20.55	20.62	20.50	22	2				
3	16QAM	3	8	20.50	20.59	20.48						
3	16QAM	3	14	20.53	20.54	20.37						
3	16QAM	6	0	20.51	20.64	20.51	21	3				
3	16QAM	6	8	20.50	20.72	20.59						
3	16QAM	6	14	20.47	20.61	20.50						
3	16QAM	8	0	19.47	19.60	19.35	21	3				
3	16QAM	8	8	19.52	19.61	19.51						
3	16QAM	8	14	19.48	19.59	19.50						
3	16QAM	15	0	17.52	17.68	17.57	19	5				
3	16QAM	15	8	17.53	17.63	17.48						
3	16QAM	15	14	17.53	17.73	17.65						
3	16QAM	1	0	17.53	17.67	17.56	19	5				
3	16QAM	1	8	17.45	17.58	17.47						
3	16QAM	1	14	17.53	17.62	17.51						
3	16QAM	3	0	17.45	17.58	17.47	19	5				
3	16QAM	3	8	17.45	17.58	17.47						
3	16QAM	3	14	17.45	17.66	17.44						
3	16QAM	6	0	17.59	17.67	17.58	19	5				
3	16QAM	6	8	17.59	17.67	17.58						
3	16QAM	6	14	17.59	17.67	17.58						



Band 38 Ant2											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up limit (dBm)	MPR (dB)			
Channel				37650	38050	38150					
Frequency (MHz)											
20	QPSK	1	0	22.72	22.50	22.88	24	0			
20	QPSK	1	49	22.71	22.84	22.80					
20	QPSK	1	99	22.83	22.77	22.71					
20	QPSK	50	0	21.82	21.89	21.83					
20	QPSK	50	24	21.84	21.89	21.79	23	1			
20	QPSK	50	50	21.82	21.82	21.75					
20	QPSK	100	0	21.81	21.90	21.85					
20	16QAM	1	0	21.76	21.85	21.78					
20	16QAM	1	49	21.66	21.74	21.69	23	1			
20	16QAM	1	99	21.74	21.81	21.73					
20	16QAM	50	0	20.81	20.88	20.80					
20	16QAM	50	24	20.77	20.80	20.70					
20	16QAM	50	50	20.83	20.76	20.71	22	2			
20	16QAM	100	0	20.80	20.85	20.74					
20	64QAM	1	0	20.85	20.90	20.84					
20	64QAM	1	49	20.78	20.91	20.83					
20	64QAM	1	99	20.74	20.84	20.73	21	3			
20	64QAM	50	0	19.78	19.85	19.72					
20	64QAM	50	24	19.76	19.81	19.77					
20	64QAM	50	50	19.68	19.78	19.69					
20	64QAM	100	0	19.82	19.96	19.72	19	5			
20	256QAM	1	0	17.84	17.94	17.82					
20	256QAM	1	49	17.79	17.88	17.85					
20	256QAM	1	99	17.89	17.82	17.84					
20	256QAM	50	0	17.78	17.86	17.73	19	5			
20	256QAM	50	24	17.80	17.83	17.74					
20	256QAM	50	50	17.82	17.78	17.67					
20	256QAM	100	0	17.85	17.80	17.81					
Channel				37625	38050	38177	Time-up limit (dBm)				
Frequency (MHz)											
15	QPSK	1	0	22.60	22.73	22.73	24	0			
15	QPSK	1	37	22.66	22.73	22.68					
15	QPSK	1	74	22.63	22.63	22.64					
15	QPSK	36	0	21.79	21.89	21.84					
15	QPSK	36	20	21.75	21.78	21.76	23	1			
15	QPSK	36	56	21.78	21.78	21.73					
15	QPSK	75	0	21.76	21.82	21.70					
15	16QAM	1	0	21.67	21.73	21.65					
15	16QAM	1	37	21.56	21.61	21.67	23	1			
15	16QAM	1	74	21.60	21.70	21.70					
15	16QAM	36	0	20.72	20.73	20.67					
15	16QAM	36	20	20.62	20.68	20.59					
15	16QAM	36	56	20.54	20.70	20.58	22	2			
15	16QAM	75	0	20.81	20.88	20.69					
15	64QAM	1	0	20.78	20.84	20.73					
15	64QAM	1	37	20.85	20.79	20.69					
15	64QAM	1	74	20.63	20.73	20.61	21	3			
15	64QAM	36	0	19.87	19.71	19.62					
15	64QAM	36	20	19.89	19.74	19.64					
15	64QAM	36	56	19.82	19.68	19.62					
15	64QAM	75	0	19.71	19.89	19.75	19	5			
15	256QAM	1	0	17.78	17.82	17.78					
15	256QAM	1	37	17.75	17.74	17.75					
15	256QAM	1	74	17.81	17.82	17.80					
15	256QAM	36	0	17.85	17.81	17.68	19			5	
15	256QAM	36	20	17.75	17.78	17.63					
15	256QAM	36	56	17.48	17.68	17.63					
15	256QAM	75	0	17.70	17.86	17.67					
Channel				37600	38050	38200	Time-up limit (dBm)				
Frequency (MHz)											
10	QPSK	1	0	22.68	22.78	22.73	24	0			
10	QPSK	1	25	22.61	22.79	22.73					
10	QPSK	1	49	22.81	22.82	22.85					
10	QPSK	25	0	21.74	21.86	21.81					
10	QPSK	25	12	21.79	21.79	21.69	23	1			
10	QPSK	25	25	21.82	21.82	21.75					
10	QPSK	50	0	21.73	21.86	21.77					
10	16QAM	1	0	21.70	21.70	21.68					
10	16QAM	1	25	21.58	21.66	21.66	23	1			
10	16QAM	1	49	21.64	21.67	21.64					
10	16QAM	25	0	20.70	20.84	20.73					
10	16QAM	25	12	20.68	20.74	20.68					
10	16QAM	25	25	20.48	20.53	20.53	22	2			
10	16QAM	50	0	20.78	20.88	20.79					
10	64QAM	1	0	20.79	20.84	20.72					
10	64QAM	1	25	20.71	20.85	20.77					
10	64QAM	1	49	20.68	20.80	20.62	22	2			
10	64QAM	25	0	19.74	19.82	19.69					
10	64QAM	25	12	19.64	19.70	19.68					
10	64QAM	25	25	19.55	19.65	19.58					
10	64QAM	50	0	19.76	19.87	19.81	21	3			
10	256QAM	1	0	17.74	17.83	17.68					
10	256QAM	1	25	17.68	17.78	17.76					
10	256QAM	1	49	17.81	17.88	17.75					
10	256QAM	25	0	17.88	17.74	17.59	19	5			
10	256QAM	25	12	17.73	17.86	17.64					
10	256QAM	25	25	17.50	17.71	17.53					
10	256QAM	50	0	17.78	17.78	17.78					
Channel				37725	38050	38225	Time-up limit (dBm)				
Frequency (MHz)											
5	QPSK	1	0	22.63	22.75	22.74	24	0			
5	QPSK	1	12	22.68	22.70	22.68					
5	QPSK	1	24	22.56	22.69	22.58					
5	QPSK	12	0	21.88	21.89	21.85					
5	QPSK	12	7	21.71	21.77	21.75	23	1			
5	QPSK	12	13	21.79	21.79	21.71					
5	QPSK	25	0	21.74	21.87	21.72					
5	16QAM	1	0	21.72	21.80	21.71					
5	16QAM	1	12	21.62	21.81	21.62	23	1			
5	16QAM	1	24	21.60	21.74	21.68					
5	16QAM	12	0	20.72	20.81	20.69					
5	16QAM	12	7	20.74	20.67	20.65					
5	16QAM	12	13	20.48	20.67	20.62	22	2			
5	16QAM	25	0	20.85	20.82	20.74					
5	64QAM	1	0	20.82	20.81	20.80					
5	64QAM	1	12	20.73	20.85	20.77					
5	64QAM	1	24	20.66	20.77	20.68	22	2			
5	64QAM	12	0	19.65	19.72	19.68					
5	64QAM	12	7	19.72	19.76	19.68					
5	64QAM	12	13	19.68	19.69	19.64					
5	64QAM	25	0	19.73	19.83	19.88	21	3			
5	256QAM	1	0	17.72	17.87	17.74					
5	256QAM	1	12	17.87	17.84	17.75					
5	256QAM	1	24	17.82	17.78	17.77					
5	256QAM	12	0	17.73	17.75	17.68	19	5			
5	256QAM	12	7	17.77	17.76	17.69					
5	256QAM	12	13	17.49	17.65	17.58					
5	256QAM	25	0	17.72	17.83	17.66					

Band 38 HPUE Ant2												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up limit (dBm)	MPR (dB)				
Channel				37650	38050	38150						
Frequency (MHz)												
20	QPSK	1	0	24.76	24.95	24.69	25.5	0				
20	QPSK	1	49	24.71	24.79	24.67						
20	QPSK	1	99	24.63	24.73	24.67						
20	QPSK	50	0	24.85	24.90	24.79						
20	QPSK	50	24	24.81	24.89	24.76	25.5	0				
20	QPSK	100	0	24.94	24.94	24.87	25.5	0				
20	16QAM	1	0	24.72	24.82	24.71						
20	16QAM	1	49	24.67	24.77	24.66						
20	16QAM	1	99	24.55	24.64	24.55						
20	16QAM	50	0	23.76	23.89	23.84	25	0.5				
20	16QAM	50	24	23.73	23.84	23.73						
20	16QAM	50	50	23.66	23.77	23.66						
20	16QAM	100	0	23.02	23.06	23.02						
20	64QAM	1	0	24.06	24.15	24.05	25	0.5				
20	64QAM	1	49	23.86	23.98	23.86						
20	64QAM	1	99	23.73	23.83	23.69						
20	64QAM	50	0	22.88	22.92	22.88						
20	64QAM	50	24	22.73	22.85	22.71	24	1.5				
20	64QAM	50	50	22.60	22.70	22.60	22	3.5				
20	256QAM	1	0	20.94	21.01	20.92						
20	256QAM	1	49	20.88	20.96	20.88						
20	256QAM	1	99	20.75	20.84	20.70						
20	256QAM	50	0	20.86	20.96	20.79	22	3.5				
20	256QAM	50	24	20.72	20.79	20.64						
20	256QAM	50	50	20.73	20.67	20.58						
20	256QAM	100	0	20.00	20.00	20.00						
Channel				37625	38025	38175	Time-up limit (dBm)	MPR (dB)				
Frequency (MHz)												
15	QPSK	1	0	24.73	24.88	24.72	25.5	0				
15	QPSK	1	37	24.61	24.75	24.67						
15	QPSK	1	74	24.54	24.66	24.49						
15	QPSK	36	0	24.73	24.78	24.68						
15	QPSK	36	20	24.71	24.85	24.68	25.5	0				
15	QPSK	36	40	24.63	24.75	24.63	25.5	0				
15	QPSK	75	0	24.78	24.80	24.83						
15	16QAM	1	0	24.83	24.95	24.84						
15	16QAM	1	37	24.71	24.82	24.71						
15	16QAM	1	74	24.67	24.72	24.63	25	0.5				
15	16QAM	36	0	23.62	23.65	23.79						
15	16QAM	36	20	23.62	23.78	23.67						
15	16QAM	36	40	23.60	23.65	23.54						
15	16QAM	75	0	23.78	23.78	23.78	25	0.5				
15	64QAM	1	0	23.94	23.97	23.97						
15	64QAM	1	37	23.77	23.79	23.81						
15	64QAM	1	74	23.67	23.73	23.67						
15	64QAM	36	0	22.79	22.74	22.84	24	1.5				
15	64QAM	36	20	22.66	22.77	22.76						
15	64QAM	36	40	22.71	22.71	22.68						
15	64QAM	75	0	22.74	22.68	22.78						
15	256QAM	1	0	20.77	20.76	20.75	22	3.5				
15	256QAM	1	74	20.64	20.78	20.63						
15	256QAM	36	0	20.68	20.70	20.70						
15	256QAM	36	20	20.58	20.71	20.68						
15	256QAM	36	50	20.59	20.75	20.68	22	3.5				
15	256QAM	75	0	20.60	20.67	20.67						
Channel <th>37600</th> <th>38000</th> <th>38200</th> <th>Time-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>				37600	38000	38200				Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)												
5	QPSK	1	0	24.74	24.84	24.74	25.5	0				
5	QPSK	1	25	24.56	24.68	24.52						
5	QPSK	1	50	24.48	24.58	24.48						
5	QPSK	25	0	24.52	24.57	24.67						
5	QPSK	25	12	24.67	24.84	24.68	25.5	0				
5	QPSK	25	37	24.58	24.71	24.52						
5	QPSK	50	0	24.70	24.87	24.77						
5	16QAM	1	0	24.78	24.91	24.82						
5	16QAM	1	25	24.68	24.80	24.75	25.5	0				
5	16QAM	1	50	24.64	24.78	24.71						
5	16QAM	25	0	23.61	23.75	23.81						
5	16QAM	25	12	23.59	23.72	23.85						
5	16QAM	25	37	23.68	23.63	23.54	25	0.5				
5	16QAM	50	0	23.62	23.67	23.78						
5	64QAM	1	0	24.00	24.01	23.95						
5	64QAM	1	25	23.74	23.68	23.79						
5	64QAM	1	50	23.71	23.71	23.64	24	1.5				
5	64QAM	25	0	22.76	22.80	22.76						
5	64QAM	25	12	22.62	22.61	22.70						
5	64QAM	25	37	22.70	22.72	22.58						
5	64QAM	50	0	22.76	22.72	22.62	22	3.5				
5	256QAM	1	0	20.68	20.70	20.79						
5	256QAM	1	25	20.63	20.61	20.75						
5	256QAM	1	49	20.71	20.73	20.68						
5	256QAM	25	0	20.65	20.67	20.65	22	3.5				
5	256QAM	25	12	20.66	20.70	20.54						
5	256QAM	25	37	20.66	20.72	20.70						
5	256QAM	50	0	20.00	20.00	20.00						
Channel				37775	38075	38225	Time-up limit (dBm)	MPR (dB)				
Frequency (MHz)												
5	QPSK	1	0	24.64	24.68	24.64	25.5	0				
5	QPSK	1	12	24.67	24.75	24.58						
5	QPSK	1	25	24.64	24.71	24.61						
5	QPSK	12	0	24.74	24.79	24.68						
5	QPSK	12	7	24.77	24.85	24.68	25.5	0				
5	QPSK	25	0	24.62	24.77	24.69						
5	QPSK	25	12	24.54	24.71	24.61						
5	16QAM	1	0	24.48	24.57	24.44						
5	16QAM	1	24	24.48	24.57	24.44	25.5	0				
5	16QAM	1	49	24.36	24.47	24.36						
5	16QAM	12	7	23.69	23.80	23.65						
5	16QAM	12	13	23.60	23.68	23.59						
5	16QAM	25	0	23.65	23.78	23.78	25	0.5				
5	64QAM	1	0	24.00	23.93	23.92						
5	64QAM	1	12	23.79	23.89	23.82						
5	64QAM	1	25	23.74	23.81	23.81						
5	64QAM	12	0	22.88	22.81	22.84	24	1.5				
5	64QAM	12	7	22.86	22.87	22.86						
5	64QAM	12	13	22.72	22.74	22.66						
5	64QAM	25	0	22.84	22.68	22.84						
5	256QAM	1	0	20.68	20.68	20.68	22	3.5				
5	256QAM	1	12	20.80	20.88	20.80						
5	256QAM	1	24	20.67	20.72	20.73						
5	256QAM	1	49	20.59	20.67	20.53						
5	256QAM	12	7	20.59	20.67	20.53	22	3.5				
5	256QAM	12	13	20.62	20.60	20.54						
5	256QAM	25	0	20.64	20.64	20.64						
5	256QAM	25	12	20.64	20.64	20.64						

Band 41 Ant2												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low-Mid Ch / Freq	Power Mid Ch / Freq	Power High-Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPR (dB)		
Channel												
Frequency (MHz)				39765	40185	40620	41055	41490				
20	QPSK	1	0	22.71	22.85	22.94	22.89	22.86	24	0		
20	QPSK	1	49	22.65	22.73	22.79	22.75	22.72				
20	QPSK	1	89	22.56	22.73	22.84	22.71	22.76				
20	QPSK	50	0	21.79	21.82	21.86	21.79	21.80				
20	QPSK	50	24	21.79	21.72	21.85	21.78	21.75				
20	QPSK	50	50	21.83	21.82	21.81	21.79	21.80	23	1		
20	QPSK	100	0	21.82	21.86	21.90	21.81	21.79				
20	16QAM	1	0	21.81	21.83	21.88	21.81	21.79				
20	16QAM	1	49	21.71	21.72	21.75	21.69	21.66				
20	16QAM	1	99	21.86	21.82	21.75	21.69	21.66				
20	16QAM	50	0	20.79	20.80	20.84	20.89	20.92	22	2		
20	16QAM	50	24	20.77	20.69	20.85	20.78	20.71				
20	16QAM	50	50	20.77	20.82	20.88	20.83	20.84				
20	16QAM	100	0	20.87	20.78	20.90	20.84	20.76				
20	16QAM	1	0	20.92	20.81	20.95	20.72	20.92				
20	64QAM	1	49	20.79	20.80	20.91	20.88	20.77	22	2		
20	64QAM	1	99	20.76	20.81	20.84	20.72	20.71				
20	64QAM	50	0	19.73	19.70	19.84	19.70	19.78				
20	64QAM	50	24	19.68	19.73	19.77	19.65	19.64				
20	64QAM	50	50	19.70	19.71	19.70	19.72	19.70				
20	64QAM	100	0	19.79	19.79	19.92	19.81	19.79	21	3		
20	256QAM	1	0	17.77	17.84	17.95	17.82	17.84				
20	256QAM	1	49	17.71	17.71	17.83	17.72	17.76				
20	256QAM	1	99	17.65	17.70	17.78	17.67	17.65				
20	256QAM	50	0	17.63	17.78	17.86	17.67	17.76				
20	256QAM	50	24	17.69	17.70	17.74	17.66	17.61	19	5		
20	256QAM	50	50	17.68	17.65	17.80	17.73	17.71				
20	256QAM	100	0	17.80	17.80	17.86	17.80	17.86				
Channel												
Frequency (MHz)				39765	40173	40620	41068	41515	Tune-up Int (dB)	MPR (dB)		
16	QPSK	1	0	22.61	22.72	22.84	22.81	22.82	24	0		
16	QPSK	1	37	22.82	22.89	22.69	22.83	22.87				
16	QPSK	1	74	22.71	22.67	22.72	22.84	22.74				
16	QPSK	36	0	21.72	21.67	21.86	21.71	21.75				
16	QPSK	36	20	21.69	21.57	21.78	21.64	21.70				
16	QPSK	75	0	21.67	21.62	21.78	21.67	21.77	23	1		
16	QPSK	75	0	21.67	21.62	21.78	21.67	21.77				
16	16QAM	1	0	21.71	21.76	21.82	21.78	21.86				
16	16QAM	1	37	21.61	21.60	21.65	21.74	21.67				
16	16QAM	1	74	21.55	21.56	21.67	21.64	21.57				
16	16QAM	36	0	20.72	20.72	20.90	20.74	20.77	22	2		
16	16QAM	36	20	20.64	20.64	20.80	20.65	20.65				
16	16QAM	36	36	20.68	20.69	20.76	20.73	20.78				
16	16QAM	75	0	20.78	20.82	20.86	20.76	20.84				
16	64QAM	1	0	20.71	20.72	20.89	20.75	20.88				
16	64QAM	1	37	20.76	20.75	20.83	20.78	20.87	22	2		
16	64QAM	1	74	20.73	20.76	20.77	20.87	20.87				
16	64QAM	36	0	19.84	19.88	19.77	19.85	19.74				
16	64QAM	36	20	19.54	19.69	19.71	19.56	19.52				
16	64QAM	75	0	19.75	19.74	19.85	19.72	19.88				
16	256QAM	1	0	17.64	17.73	17.75	17.76	17.71	19	5		
16	256QAM	1	37	17.60	17.67	17.68	17.68	17.58				
16	256QAM	1	74	17.50	17.60	17.72	17.63	17.59				
16	256QAM	36	0	17.73	17.68	17.73	17.75	17.63				
16	256QAM	36	20	17.63	17.61	17.69	17.60	17.52				
16	256QAM	36	39	17.57	17.51	17.66	17.61	17.84	19	5		
16	256QAM	75	0	17.88	17.80	17.85	17.72	17.72				
Channel												
Frequency (MHz)				39765	40160	40620	41068	41540	Tune-up Int (dB)	MPR (dB)		
10	QPSK	1	0	22.67	22.72	22.84	22.81	22.78	24.00	0		
10	QPSK	1	25	22.58	22.81	22.72	22.80	22.80				
10	QPSK	1	49	22.70	22.83	22.78	22.82	22.74				
10	QPSK	1	74	21.65	21.79	21.84	21.72	21.71				
10	QPSK	25	12	21.74	21.58	21.73	21.71	21.72				
10	QPSK	25	25	21.73	21.76	21.81	21.74	21.75	23	1		
10	QPSK	50	0	21.79	21.74	21.75	21.75	21.74				
10	16QAM	1	0	21.87	21.74	21.77	21.88	21.72				
10	16QAM	1	25	21.68	21.69	21.76	21.85	21.56				
10	16QAM	1	49	21.61	21.61	21.63	21.63	21.60				
10	16QAM	25	0	20.70	20.70	20.82	20.85	20.74	22	2		
10	16QAM	25	12	20.69	20.58	20.75	20.86	20.66				
10	16QAM	25	25	20.70	20.73	20.81	20.80	20.76				
10	16QAM	50	0	20.76	20.65	20.80	20.81	20.71				
10	64QAM	1	0	20.71	20.72	20.89	20.73	20.76				
10	64QAM	1	25	20.73	20.74	20.78	20.77	20.69	22	2		
10	64QAM	1	49	20.70	20.68	20.70	20.87	20.57				
10	64QAM	25	0	19.59	19.39	19.70	19.63	19.63				
10	64QAM	25	12	19.61	19.66	19.64	19.53	19.59				
10	64QAM	25	25	19.58	19.67	19.75	19.63	19.66				
10	64QAM	50	0	19.76	19.84	19.84	19.89	19.87	19	5		
10	256QAM	1	0	17.73	17.71	17.77	17.77	17.71				
10	256QAM	1	25	17.58	17.61	17.76	17.80	17.71				
10	256QAM	1	49	17.58	17.57	17.64	17.59	17.58				
10	256QAM	25	0	17.73	17.64	17.83	17.77	17.83				
10	256QAM	25	12	17.86	17.83	17.69	17.63	17.82	19	5		
10	256QAM	25	25	17.61	17.54	17.73	17.61	17.63				
10	256QAM	50	0	17.81	17.75	17.81	17.75	17.79				
Channel												
Frequency (MHz)				39675	40148	40620	41093	41565	Tune-up Int (dB)	MPR (dB)		
5	QPSK	1	0	22.65	22.75	22.84	22.84	22.78	24.00	0		
5	QPSK	1	12	22.51	22.83	22.67	22.87	22.87				
5	QPSK	1	24	22.83	22.58	22.78	22.58	22.86				
5	QPSK	12	0	21.60	21.83	21.85	21.73	21.76				
5	QPSK	12	7	21.71	21.68	21.79	21.69	21.64				
5	QPSK	12	13	21.68	21.79	21.80	21.73	21.78	23	1		
5	QPSK	26	0	21.76	21.72	21.79	21.73	21.74				
5	QPSK	1	0	21.69	21.79	21.75	21.78	21.68				
5	16QAM	1	0	21.71	21.68	21.71	21.82	21.61				
5	16QAM	1	12	21.67	21.68	21.68	21.68	21.68				
5	16QAM	1	24	21.66	21.64	21.68	21.66	21.57	22	2		
5	16QAM	12	0	20.67	20.67	20.84	20.67	20.76				
5	16QAM	12	7	20.64	20.60	20.70	20.68	20.63				
5	16QAM	12	13	20.70	20.70	20.76	20.72	20.70				
5	16QAM	26	0	20.73	20.67	20.85	20.69	20.65				
5	64QAM	1	0	20.70	20.74	20.87	20.73	20.76	22	2		
5	64QAM	1	12	20.74	20.77	20.87	20.63	20.67				
5	64QAM	1	24	20.73	20.84	20.86	20.80	20.75				
5	64QAM	12	0	19.63	19.66	19.78	19.60	19.71				
5	64QAM	12	7	19.63	19.68	19.68	19.55	19.56				
5	64QAM	12	13	19.60	19.63	19.64	19.46	19.46	19	5		
5	64QAM	26	0	19.74	19.76	19.83	19.68	19.69				
5	256QAM	1	0	17.68	17.72	17.74	17.74	17.71				
5	256QAM	1	12	17.62	17.56	17.69	17.68	17.67				
5	256QAM	1	24	17.57	17.60	17.73	17.62	17.58				
5	256QAM	12	0	17.78	17.71	17.84	17.72	17.71	19	5		
5	256QAM	12	7	17.59	17.56	17.70	17.62	17.61				
5	256QAM	12	13	17.67	17.57	17.66	17.61	17.61				
5	256QAM	26	0	17.80	17.77	17.79	17.74	17.74				



Band 42 FCC Part27Q Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				42190	42190	42190				
20	QPSK	1	0	20.91	21.15	21.10	21.5	0		
20	QPSK	1	49	20.96	21.11	21.04				
20	QPSK	1	99	20.95	21.03	20.91				
20	QPSK	50	0	19.09	19.10	19.07	20.5	1		
20	QPSK	50	24	19.03	19.07	18.96				
20	QPSK	50	50	19.01	19.05	18.97				
20	16QAM	1	0	19.99	20.05	19.95	20.5	1		
20	16QAM	1	49	19.84	19.97	19.84				
20	16QAM	1	99	20.04	20.10	19.98				
20	16QAM	50	0	17.92	18.91	17.93	19.5	2		
20	16QAM	50	24	18.11	18.13	18.07				
20	16QAM	50	50	17.95	18.02	17.87				
20	16QAM	100	0	18.93	18.96	18.93	19.5	2		
20	16QAM	100	50	19.05	19.15	19.02				
20	64QAM	1	49	18.97	19.11	18.99				
20	64QAM	1	99	19.03	19.07	18.98	19.5	2		
20	64QAM	50	0	17.00	17.06	17.02				
20	64QAM	50	24	16.84	16.97	16.86				
20	64QAM	50	50	17.01	17.10	17.05	18.5	3		
20	64QAM	100	0	16.97	17.02	16.88				
20	256QAM	1	0	19.55	19.70	19.57				
20	256QAM	1	49	19.41	19.52	19.46	20.5	1		
20	256QAM	1	99	19.51	19.63	19.60				
20	256QAM	50	0	16.71	16.77	16.67				
20	256QAM	50	24	16.56	16.58	16.51	20.5	1		
20	256QAM	50	50	16.81	16.75	16.68				
20	256QAM	100	0	16.83	16.76	16.74				
Channel										
Frequency (MHz)				42195	42195	42195	Turn-up time (dBm)	MPR (dB)		
15	QPSK	1	0	20.82	21.13	21.05	21.5	0		
15	QPSK	1	37	20.82	21.04	20.88				
15	QPSK	1	74	20.81	20.96	20.83				
15	QPSK	36	0	19.05	19.01	19.01	20.5	1		
15	QPSK	36	20	18.92	18.97	18.89				
15	QPSK	36	36	18.87	18.92	18.86				
15	QPSK	75	0	16.87	16.92	16.86	20.5	1		
15	16QAM	1	0	19.87	19.95	19.85				
15	16QAM	1	37	19.73	19.86	19.77				
15	16QAM	1	74	19.96	20.02	19.95	19.5	2		
15	16QAM	36	0	17.87	18.01	17.84				
15	16QAM	36	20	18.05	18.04	17.87				
15	16QAM	36	36	17.82	17.96	17.73	19.5	2		
15	16QAM	75	0	17.92	17.97	17.88				
15	64QAM	1	0	19.07	19.07	19.03				
15	64QAM	1	37	18.86	18.99	18.89	19.5	2		
15	64QAM	1	74	18.96	19.05	18.96				
15	64QAM	36	0	16.86	16.94	16.87				
15	64QAM	36	20	16.69	16.93	16.78	18.5	3		
15	64QAM	36	36	16.92	16.97	16.85				
15	64QAM	75	0	16.96	16.99	16.92				
15	256QAM	1	0	19.46	19.67	19.52	20.5	1		
15	256QAM	1	37	19.35	19.49	19.40				
15	256QAM	1	74	19.42	19.57	19.48				
15	256QAM	36	0	16.61	16.73	16.54	20.5	1		
15	256QAM	36	20	16.51	16.59	16.59				
15	256QAM	36	36	16.50	16.68	16.59				
15	256QAM	75	0	16.58	16.69	16.63	20.5	1		
Channel										
Frequency (MHz)				42190	42190	42190	Turn-up time (dBm)	MPR (dB)		
10	QPSK	1	0	20.89	21.06	21.01	21.5	0		
10	QPSK	1	25	20.86	20.97	20.96				
10	QPSK	1	49	20.83	20.99	20.83				
10	QPSK	25	0	18.96	19.03	19.04	20.5	1		
10	QPSK	25	12	18.96	18.97	18.87				
10	QPSK	25	25	18.83	18.92	18.79				
10	QPSK	50	0	18.94	19.01	18.92	20.5	1		
10	16QAM	1	0	19.91	20.00	19.88				
10	16QAM	1	25	19.78	19.84	19.77				
10	16QAM	1	49	19.97	20.05	19.88	19.5	2		
10	16QAM	25	0	17.86	18.00	17.80				
10	16QAM	25	25	17.82	17.97	17.75				
10	16QAM	50	0	17.86	17.86	18.01	19.5	2		
10	64QAM	1	0	19.03	19.11	18.94				
10	64QAM	1	25	18.91	18.96	18.91				
10	64QAM	1	49	18.92	19.05	18.87	18.5	3		
10	64QAM	25	0	16.86	17.03	16.91				
10	64QAM	25	12	16.75	16.86	16.72				
10	64QAM	25	25	16.94	17.00	17.02	20.5	1		
10	64QAM	50	0	16.90	16.90	16.77				
10	256QAM	1	0	19.52	19.59	19.42				
10	256QAM	1	25	19.24	19.46	19.36	20.5	1		
10	256QAM	1	49	19.45	19.54	19.54				
10	256QAM	25	0	16.53	16.67	16.59				
10	256QAM	25	12	16.47	16.56	16.54	20.5	1		
10	256QAM	25	25	16.48	16.55	16.52				
10	256QAM	50	0	16.54	16.58	16.56				
Channel										
Frequency (MHz)				42115 <th>42160</th> <th>42060</th> <th>Turn-up time (dBm)</th> <th>MPR (dB)</th> <th colspan="2"></th>	42160	42060	Turn-up time (dBm)	MPR (dB)		
5	QPSK	1	0	20.86	21.12	21.05	21.5	0		
5	QPSK	1	12	20.90	21.05	20.99				
5	QPSK	1	24	20.88	20.96	20.85				
5	QPSK	12	0	18.03	18.09	18.00	20.5	1		
5	QPSK	12	7	18.97	18.91	18.89				
5	QPSK	12	13	18.85	18.99	18.83				
5	QPSK	25	0	16.96	16.96	16.89	20.5	1		
5	16QAM	1	0	19.94	20.00	19.89				
5	16QAM	1	12	19.78	19.90	19.77				
5	16QAM	1	24	19.95	20.05	19.91	19.5	2		
5	16QAM	12	5	17.86	18.01	17.87				
5	16QAM	12	7	18.05	18.06	18.00				
5	16QAM	12	13	17.88	17.97	17.82	19.5	2		
5	16QAM	25	0	17.87	18.00	17.87				
5	64QAM	1	0	19.07	19.11	19.03				
5	64QAM	1	12	18.92	19.05	18.84	18.5	3		
5	64QAM	1	24	18.96	19.02	18.92				
5	64QAM	12	0	16.94	17.01	16.86				
5	64QAM	12	5	16.77	16.86	16.74	18.5	3		
5	64QAM	12	13	16.96	17.03	17.01				
5	64QAM	25	0	16.92	16.98	16.82				
5	256QAM	1	0	19.52	19.67	19.51	20.5	1		
5	256QAM	1	12	19.36	19.48	19.41				
5	256QAM	1	24	19.45	19.57	19.54				
5	256QAM	12	0	16.58	16.72	16.61	20.5	1		
5	256QAM	12	7	16.51	16.62	16.54				
5	256QAM	12	13	16.54	16.63	16.51				



Band 43 for FCC use Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Take-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				43690	44090	44490				
20	QPSK	1	0	20.86	21.00	20.97		21.5	0	
20	QPSK	1	49	20.71	20.80	20.83				
20	QPSK	1	99	20.80	20.86	20.77				
20	QPSK	50	0	18.86	18.93	18.78				
20	QPSK	50	24	18.81	18.84	18.74		20.5	1	
20	QPSK	50	50	18.70	18.71	18.62				
20	QPSK	100	0	18.75	18.84	18.78				
20	16QAM	1	0	18.84	18.87	18.72		20.5	1	
20	16QAM	1	49	18.78	18.77	18.82				
20	16QAM	1	99	18.75	18.83	18.78				
20	16QAM	50	0	17.86	17.80	17.84				
20	16QAM	50	24	17.84	17.81	17.85		19.5	2	
20	16QAM	50	50	17.87	17.78	17.80				
20	16QAM	100	0	17.74	17.87	17.77				
20	64QAM	1	0	18.89	18.95	18.91		19.5	2	
20	64QAM	1	49	18.83	18.92	18.85				
20	64QAM	1	99	18.82	18.96	18.82				
20	64QAM	50	0	18.82	18.95	18.93				
20	64QAM	50	24	18.91	18.82	18.87		18.5	3	
20	64QAM	50	50	18.85	18.95	18.81				
20	64QAM	100	0	18.88	18.82	18.74				
20	256QAM	1	0	19.45	19.58	19.45				
20	256QAM	1	49	19.48	19.47	19.49		20.5	1	
20	256QAM	1	99	19.46	19.48	19.51				
20	256QAM	50	0	19.59	19.48	19.50				
20	256QAM	50	24	19.59	19.50	19.59		20.5	1	
20	256QAM	50	50	19.50	19.60	19.52				
20	256QAM	100	0	19.49	19.53	19.50				
Channel										
Frequency (MHz)				43690	44090	44515	Take-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	20.73	20.97	20.85		21.5	0	
15	QPSK	1	37	20.68	20.70	20.63				
15	QPSK	1	74	20.71	20.71	20.68				
15	QPSK	36	0	18.79	18.82	18.68				
15	QPSK	36	20	18.73	18.75	18.59		20.5	1	
15	QPSK	75	0	18.71	18.78	18.74				
15	16QAM	1	0	19.77	19.77	19.64		20.5	1	
15	16QAM	1	37	19.68	19.76	19.74				
15	16QAM	1	74	19.68	19.71	19.70				
15	16QAM	36	0	17.74	17.78	17.72				
15	16QAM	36	20	17.70	17.74	17.70		19.5	2	
15	16QAM	36	39	17.81	17.75	17.79				
15	16QAM	75	0	17.60	17.76	17.75				
15	64QAM	1	0	19.79	19.81	19.81		19.5	2	
15	64QAM	1	37	18.69	18.78	18.72				
15	64QAM	1	74	18.69	18.75	18.74				
15	64QAM	36	0	18.79	18.85	18.79		18.5	3	
15	64QAM	36	20	18.89	18.78	18.79				
15	64QAM	75	0	18.58	18.79	18.65				
15	256QAM	1	0	19.38	19.48	19.37		20.5	1	
15	256QAM	1	37	19.41	19.35	19.35				
15	256QAM	1	74	19.31	19.41	19.48				
15	256QAM	36	0	19.44	19.37	19.49		20.5	1	
15	256QAM	36	20	19.53	19.46	19.47				
15	256QAM	36	39	19.44	19.46	19.45				
15	256QAM	75	0	19.42	19.48	19.54				
Channel										
Frequency (MHz)				43690	44090	44550	Take-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	20.79	20.96	20.72		21.5	0	
10	QPSK	1	25	20.58	20.77	20.59				
10	QPSK	1	49	20.68	20.78	20.72				
10	QPSK	25	0	18.75	18.80	18.72				
10	QPSK	25	12	18.74	18.73	18.60		20.5	1	
10	QPSK	25	25	18.58	18.73	18.65				
10	QPSK	50	0	18.84	18.77	18.63				
10	16QAM	1	0	19.76	19.83	19.57		20.5	1	
10	16QAM	1	25	18.69	18.83	18.68				
10	16QAM	1	49	19.69	19.80	19.69				
10	16QAM	25	0	17.74	17.77	17.70		19.5	2	
10	16QAM	25	12	17.76	17.67	17.78				
10	16QAM	25	25	17.81	17.72	17.74				
10	16QAM	50	0	17.63	17.77	17.62				
10	64QAM	1	0	19.86	19.83	19.82		19.5	2	
10	64QAM	1	25	18.70	18.84	18.72				
10	64QAM	1	49	18.70	18.81	18.70				
10	64QAM	25	0	18.74	18.89	18.81		18.5	3	
10	64QAM	25	12	18.87	18.77	18.78				
10	64QAM	25	25	18.75	18.71	18.70				
10	64QAM	50	0	18.57	18.87	18.80				
10	256QAM	1	0	19.32	19.61	19.43		20.5	1	
10	256QAM	1	25	18.43	18.41	18.45				
10	256QAM	1	49	19.40	19.36	19.45				
10	256QAM	25	0	19.39	19.52	19.37		20.5	1	
10	256QAM	25	12	19.47	19.46	19.54				
10	256QAM	25	25	19.40	19.53	19.40				
10	256QAM	50	0	19.34	19.45	19.32				
Channel										
Frequency (MHz)				43615 <th>44090</th> <th>44560</th> <th>Take-up limit (dBm)</th> <th colspan="2">MPR (dB)</th> <th></th>	44090	44560	Take-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	20.79	20.96	20.72		21.5	0	
5	QPSK	1	12	20.66	20.74	20.68				
5	QPSK	1	24	20.74	20.80	20.70				
5	QPSK	12	0	18.79	18.87	18.71		20.5	1	
5	QPSK	12	7	18.75	18.79	18.68				
5	QPSK	12	13	18.64	18.76	18.69				
5	QPSK	25	0	18.69	18.78	18.71				
5	16QAM	1	0	19.78	19.81	19.68		20.5	1	
5	16QAM	1	12	18.74	18.71	18.76				
5	16QAM	1	24	19.60	19.78	19.70				
5	16QAM	12	0	17.81	17.84	17.78		19.5	2	
5	16QAM	12	7	17.78	17.75	17.76				
5	16QAM	12	13	17.80	17.71	17.77				
5	16QAM	25	0	17.67	17.81	17.71				
5	64QAM	1	0	18.82	18.90	18.86		19.5	2	
5	64QAM	1	12	18.76	18.87	18.78				
5	64QAM	1	24	18.76	18.82	18.76				
5	64QAM	12	0	18.75	18.89	18.86		18.5	3	
5	64QAM	12	7	18.85	18.75	18.81				
5	64QAM	12	13	18.79	18.80	18.74				
5	64QAM	25	0	18.84	18.76	18.87				
5	256QAM	1	0	19.40	19.52	19.38		20.5	1	
5	256QAM	1	12	19.41	19.42	19.43				
5	256QAM	1	24	19.41	19.43	19.45				
5	256QAM	12	0	19.43	19.58	19.48				
5	256QAM	12	7	19.52	19.55	19.53		20.5	1	
5	256QAM	12	13	19.45	19.55	19.47				
5	256QAM	25	0	19.43	19.45	19.34				

Band 48_FCC Ant3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq. [dBm]	Power Low Mid Ch / Freq. [dBm]	Power High Ch / Freq. [dBm]	Power High Ch / Freq. [dBm]	Take-up limit (dBm)	MPR (dB)	
Channel										
Frequency (MHz)				56580	56680	56780	56880			
20	QPSK	1	0	20.46	20.60	20.53	20.34		21.5	0
20	QPSK	1	49	20.41	20.56	20.43	20.33			
20	QPSK	1	99	20.48	20.51	20.49	20.30			
20	QPSK	50	0	19.14	19.10	19.16	18.93			
20	QPSK	50	24	19.08	19.12	19.03	18.95		20.5	1
20	QPSK	50	50	19.11	19.18	19.11	19.03			
20	QPSK	100	0	19.12	19.10	19.01	18.95			
20	16QAM	1	0	19.01	19.06	19.02	18.99		20.5	1
20	16QAM	1	49	19.04	19.04	19.05	19.07			
20	16QAM	1	99	19.01	19.02	19.02	19.05			
20	16QAM	50	0	17.86	18.07	17.93	17.86		19.5	2
20	16QAM	50	24	17.89	17.89	17.86	17.88			
20	16QAM	50	50	17.80	17.80	17.95	17.87			
20	16QAM	100	0	18.02	18.07	18.01	17.94			
20	64QAM	1	0	18.97	19.02	19.02	19.04		19.5	2
20	64QAM	1	49	18.89	18.87	18.90	18.75			
20	64QAM	1	99	18.93	18.94	19.00	18.91			
20	64QAM	50	0	18.90	17.88	17.82	18.88		18.5	3
20	64QAM	50	24	18.95	17.85	18.93	18.86			
20	64QAM	50	50	17.81	17.80	17.83	18.90			
20	64QAM	100	0	17.82	17.86	17.73	17.81			
20	256QAM	1	0	19.67	19.72	19.69	19.45		20.5	1
20	256QAM	1	49	19.61	19.68	19.65	19.40			
20	256QAM	1	99	19.67	19.67	19.68	19.49			
20	256QAM	50	0	19.69	19.74	19.67	19.54			
20	256QAM	50	24	19.62	19.63	19.67	19.39			
20	256QAM	50	50	19.68	19.68	19.69	19.47			
20	256QAM	100	0	19.65	19.69	19.65	19.46			
Channel										
Frequency (MHz)				56785	56885	56985	56985	Take-up limit (dBm)	MPR (dB)	
20	QPSK	1	0	20.45	20.45	20.45	20.26		21.5	0
20	QPSK	1	37	20.37	20.52	20.38	20.24			
20	QPSK	1	74	20.42	20.39	20.39	20.21			
20	QPSK	50	0	19.08	19.08	19.08	18.78			
20	QPSK	50	24	18.99	19.00	18.91	18.86		20.5	1
20	QPSK	50	50	19.00	19.00	18.98	18.78			
20	QPSK	75	0	19.07	19.05	19.07	18.86			
20	16QAM	1	0	17.78	18.82	19.77	19.80		19.5	2
20	16QAM	1	37	17.97	19.00	19.73	19.83			
20	16QAM	1	74	18.88	19.85	19.78	19.72			
20	16QAM	50	0	17.86	19.04	17.90	17.80		19.5	2
20	16QAM	50	24	17.89	19.01	17.87	17.81			
20	16QAM	50	39	17.89	17.84	17.87	17.83			
20	16QAM	100	0	18.00	18.98	19.87	19.88		19.5	2
20	64QAM	1	0	18.90	18.98	19.79	19.80			
20	64QAM	1	37	18.78	18.86	19.76	19.87		19.5	2
20	64QAM	1	74	18.87	19.83	19.83	19.74			
20	64QAM	50	0	18.88	18.90	18.87	18.84		19.5	2
20	64QAM	50	25	18.92	19.93	19.89	19.81			
20	64QAM	50	50	18.88	18.88	18.89	19.80		18.5	3
20	64QAM	75	0	18.92	17.04	17.05	19.81			
20	256QAM	1	0	19.53	19.43	19.56	19.44		20.5	1
20	256QAM	1	37	19.53	19.43	19.56	19.44			
20	256QAM	1	74	19.53	19.54	19.65	19.49			
20	256QAM	50	0	19.52	19.46	19.58	19.47			
20	256QAM	50	25	19.52	19.50	19.51	19.47		20.5	1
20	256QAM	50	39	19.57	19.64	19.59	19.37			
20	256QAM	100	0	19.51	19.51	19.51	19.55			
Channel										
Frequency (MHz)				56995	57095	57095	56995	Take-up limit (dBm)	MPR (dB)	
5	QPSK	20	0	20.45	20.46	20.46	20.26		21.5	0
5	QPSK	1	25	20.29	20.48	20.38	20.23			
5	QPSK	20	0	20.37	20.37	20.37	20.18			
5	QPSK	25	0	19.02	19.12	19.06	18.86		20.5	1
5	QPSK	25	12	19.01	19.04	19.05	18.81			
5	QPSK	50	0	18.98	19.13	19.03	18.84		20.5	1
5	QPSK	50	0	19.00	19.13	19.02	19.01			
5	16QAM	1	0	19.86	19.91	19.77	19.86		20.5	1
5	16QAM	1	25	19.77	19.88	19.87	19.85			
5	QPSK	1	49	19.82	19.82	19.76	19.71			
5	16QAM	1	0	17.86	18.01	17.87	17.83		19.5	2
5	16QAM	1	25	17.86	17.84	17.84	17.80			
5	16QAM	25	12	17.89	17.80	17.80	17.84		19.5	2
5	16QAM	50	0	18.00	18.00	18.00	18.00			
5	64QAM	1	0	18.80	18.98	18.88	18.71		19.5	2
5	64QAM	1	25	18.87	18.98	18.79	18.84			
5	64QAM	1	49	18.90	18.89	18.84	18.78			
5	64QAM	25	0	18.83	19.03	19.02	19.01		19.5	2
5	64QAM	25	12	19.00	19.91	19.88	19.77		18.5	3
5	64QAM	50	0	18.97	19.00	18.97	18.93			
5	64QAM	50	1	18.91	17.05	17.02	18.89			
5	64QAM	100	0	18.91	18.91	18.91	18.93		20.5	1
5	256QAM	1	0	19.47	19.47	19.48	19.43		20.5	1
5	256QAM	1	25	19.48	19.47	19.48	19.45			
5	256QAM	1	49	19.61	19.60	19.61	19.42			
5	256QAM	25	12	19.61	19.60	19.64	19.47			
5	256QAM	25	12	19.61	19.54	19.58	19.45			
5	256QAM	50	26	19.62	19.54	19.58	19.32		20.5	1
5	256QAM	50	26	19.62	19.54	19.58	19.32			
Channel										
Frequency (MHz)				56995	57095	57095	56995	Take-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.45	20.46	20.46	20.26		21.5	0
5	QPSK	1	12	20.35	20.61	20.38	20.28			
5	QPSK	1	25	20.42	20.46	20.46	20.24			
5	QPSK	12	0	19.08	19.14	19.10	18.90		20.5	1
5	QPSK	12	7	19.02	19.06	19.06	18.90			
5	16QAM	1	0	19.04	19.06	19.06	18.90		20.5	1
5	16QAM	1	12	19.07	19.11	19.07	18.94			
5	16QAM	1	25	19.07	19.08	19.04	18.88			
5	16QAM	1	0	18.94	19.09	19.89	19.82		20.5	1
5	16QAM	1	12	18.97	19.08	19.88	19.77			
5	16QAM	1	24	18.95	19.06	19.76	19.69			
5	16QAM	12	0	17.88	18.01	17.87	17.83		19.5	2
5	16QAM	12	7	17.89	17.93	17.90	17.83			
5	16QAM	12	13	17.84	17.87	17.89	17.81			
5	16QAM	12	19	18.01	18.11	18.12	18.09		19.5	2
5	16QAM	1	0	18.86	18.97	18.85	18.77			
5	64QAM	1	12	18.92	18.91	18.83	18.70		19.5	2
5	64QAM	1	25	18.91	18.93	18.84	18.79			
5	64QAM	12	0	18.90	17.03	16.95	18.82			
5	64QAM	12	13	18.90	17.00	16.97	18.84			
5	64QAM	12	19	18.95	19.09	19.07	18.94		19.5	3
5	64QAM	1	0	16.97	17.59	16.97	16.95			
5	256QAM	1	0	19.61	19.67	19.62	19.59		20.5	1
5	256QAM	1	12	19.61	19.62	19.54	19.46			
5	256QAM	1	24	19.61	19.60	19.62	19.44			
5	256QAM	12	0	19.61	19.67	19.62	19.46		20.5	1
5	256QAM	12	7	19.68	19.68	19.61	19.53			
5	256QAM	12	13	19.60	19.61	19.60	19.42		20.5	1
5	256QAM	12	19	19.63	19.78	19.68	19.59			

Band 41 Ant4															
RW [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 limit (dBm)	MPR (dB)				
Channel															
Frequency (MHz)															
20	QPSK	1	0	18.92	19.13	19.25	19.25	19.25	19.25	20	0				
20	QPSK	1	40	18.89	19.06	19.13	19.08	19.07	19.07						
20	QPSK	1	80	18.87	18.95	19.01	18.96	18.93	18.93						
20	QPSK	50	0	17.97	18.30	18.38	18.02	18.10	18.10						
20	QPSK	50	24	17.96	17.97	18.06	17.99	17.94	17.94						
20	QPSK	100	0	17.96	18.10	18.18	18.12	18.06	18.06	19	1				
20	QPSK	100	0	17.84	18.01	18.09	17.94	17.94	17.94						
20	16QAM	1	0	17.94	18.08	18.18	18.12	18.06	18.06						
20	16QAM	1	40	17.82	17.95	18.03	17.98	17.94	17.94						
20	16QAM	1	80	17.82	17.96	18.10	17.98	18.03	18.03						
20	16QAM	50	0	16.95	16.95	17.07	16.96	16.98	16.98	18	2				
20	16QAM	50	24	16.74	16.84	16.95	16.84	16.89	16.89						
20	16QAM	50	50	16.70	16.76	16.89	16.78	16.80	16.80						
20	16QAM	100	0	16.71	17.07	17.12	17.07	17.02	17.02						
20	16QAM	100	0	16.58	17.05	17.19	17.15	17.05	17.05						
20	16QAM	1	40	16.85	16.86	16.84	16.87	16.85	16.85	18	2				
20	16QAM	1	80	15.91	15.96	15.92	15.93	15.93	15.93						
20	16QAM	50	0	15.90	15.97	16.05	15.98	15.99	15.99						
20	16QAM	50	24	15.71	15.85	15.92	15.83	15.84	15.84						
20	16QAM	50	50	15.92	15.89	16.03	15.98	15.99	15.99						
20	16QAM	100	0	15.88	16.06	16.11	16.00	15.99	15.99	17	3				
20	256QAM	1	0	13.77	13.84	13.88	13.87	13.86	13.86						
20	256QAM	1	40	13.83	14.10	14.12	14.01	14.05	14.05						
20	256QAM	1	80	13.88	13.96	14.02	13.94	13.89	13.89						
20	256QAM	50	0	13.81	13.92	13.95	13.80	13.82	13.82						
20	256QAM	50	24	13.73	13.92	13.95	13.80	13.82	13.82	15	5				
20	256QAM	50	50	13.79	13.95	14.00	13.92	13.91	13.91						
20	256QAM	100	0	13.82	14.04	14.06	14.06	14.09	14.09						
Channel															
Frequency (MHz)															
16	QPSK	1	0	18.79	18.93	19.12	18.78	19.13	19.13	20	0				
16	QPSK	1	37	18.77	18.98	19.08	18.91	18.95	18.95						
16	QPSK	1	74	18.81	19.78	19.96	19.86	19.84	19.84						
16	QPSK	36	0	17.83	17.86	18.08	17.78	18.05	18.05						
16	QPSK	36	20	17.78	17.90	17.93	17.84	17.80	17.80						
16	QPSK	75	0	17.82	17.85	17.97	17.82	17.85	17.85	19	1				
16	QPSK	75	0	17.70	17.97	17.98	17.85	17.83	17.83						
16	16QAM	1	0	17.89	18.03	18.14	17.99	17.97	17.97						
16	16QAM	1	37	17.89	17.98	18.09	17.96	17.96	17.96						
16	16QAM	1	74	17.85	17.90	18.03	17.94	17.92	17.92						
16	16QAM	36	0	16.73	16.83	17.02	16.65	16.85	16.85	18	2				
16	16QAM	36	20	16.85	16.92	17.05	16.73	16.91	16.91						
16	16QAM	36	39	16.58	16.64	16.80	16.72	16.68	16.68						
16	16QAM	75	0	16.76	17.02	17.09	16.69	16.93	16.93						
16	16QAM	75	0	16.92	16.91	17.06	17.11	16.96	16.96						
16	16QAM	1	37	16.68	16.76	16.84	16.79	16.75	16.75	18	2				
16	16QAM	1	74	16.77	16.91	16.97	16.90	16.95	16.95						
16	16QAM	36	0	15.81	15.85	15.91	15.88	15.92	15.92						
16	16QAM	36	20	15.99	15.76	16.80	15.71	15.74	15.74						
16	16QAM	36	39	15.82	15.83	15.90	15.75	15.89	15.89						
16	16QAM	75	0	15.51	15.97	16.00	15.90	15.95	15.95	15	5				
16	256QAM	1	0	13.73	13.77	13.87	13.78	13.80	13.80						
16	256QAM	1	40	13.70	13.80	13.85	13.69	13.79	13.79						
16	256QAM	1	74	13.77	13.85	13.90	13.88	13.86	13.86						
16	256QAM	36	0	13.77	13.98	14.01	13.91	13.97	13.97						
16	256QAM	36	20	13.70	13.80	13.85	13.69	13.79	13.79	15	5				
16	256QAM	36	39	13.72	13.82	13.85	13.79	13.86	13.86						
16	256QAM	75	0	13.79	13.90	14.03	13.93	14.00	14.00						
Channel															
Frequency (MHz)															
8	QPSK	1	0	18.93	19.08	19.13	18.93	19.14	19.14	20	0				
8	QPSK	1	25	18.79	18.92	19.02	18.84	19.03	19.03						
8	QPSK	1	49	18.76	18.84	18.80	18.90	18.80	18.80						
8	QPSK	25	0	17.89	17.96	18.00	17.80	18.00	18.00						
8	QPSK	25	12	17.75	17.88	17.97	17.83	17.86	17.86						
8	QPSK	25	18	17.87	17.88	18.02	17.82	17.88	17.88	19	1				
8	QPSK	50	0	17.70	17.92	17.94	17.84	17.84	17.84						
8	16QAM	1	0	17.88	17.88	18.09	17.87	17.88	17.88						
8	16QAM	1	25	17.12	17.81	17.89	17.86	17.82	17.82						
8	16QAM	1	49	17.84	17.91	17.97	17.92	17.86	17.86						
8	16QAM	25	0	16.71	16.82	17.01	16.65	16.85	16.85	18	2				
8	16QAM	25	12	16.84	16.78	16.86	16.86	16.79	16.79						
8	16QAM	25	18	16.63	16.63	16.84	16.67	16.75	16.75						
8	16QAM	50	0	16.80	16.83	17.01	17.03	16.99	16.99						
8	16QAM	50	0	16.91	16.90	17.09	17.09	16.95	16.95						
8	16QAM	1	25	16.70	16.83	16.89	16.80	16.76	16.76	18	2				
8	16QAM	1	49	16.87	16.87	17.00	16.80	16.87	16.87						
8	16QAM	25	0	15.85	15.83	16.00	15.94	15.89	15.89						
8	16QAM	25	12	15.67	15.74	15.80	15.70	15.79	15.79						
8	16QAM	25	18	15.79	15.75	15.95	15.79	15.86	15.86						
8	16QAM	50	0	15.86	15.85	16.03	15.92	15.89	15.89	15	5				
8	256QAM	1	0	13.72	13.71	13.87	13.72	13.82	13.82						
8	256QAM	1	25	13.83	14.04	14.10	13.90	13.91	13.91						
8	256QAM	1	49	13.82	13.91	13.97	13.81	13.79	13.79						
8	256QAM	25	0	13.73	13.93	13.83	13.81	13.82	13.82						
8	256QAM	25	12	13.83	13.96	13.84	13.73	13.89	13.89	15	5				
8	256QAM	25	25	13.72	13.92	13.91	13.79	13.79	13.79						
8	256QAM	50	0	13.83	13.95	14.06	13.99	14.04	14.04						
Channel															
Frequency (MHz)															
5	QPSK	1	0	18.85	18.95	19.21	18.95	19.18	19.18	20	0				
5	QPSK	1	15	18.83	18.93	19.09	18.95	18.99	18.99						
5	QPSK	1	24	18.76	18.79	18.93	18.88	18.84	18.84						
5	QPSK	12	0	17.86	17.96	18.04	17.86	18.02	18.02						
5	QPSK	12	7	17.85	17.85	18.01	17.83	17.84	17.84						
5	QPSK	12	13	17.90	17.80	17.96	17.86	17.93	17.93	19	1				
5	QPSK	25	0	17.74	17.90	17.96	17.86	17.84	17.84						
5	16QAM	1	0	17.87	17.99	18.09	17.88	17.94	17.94						
5	16QAM	1	15	17.68	17.84	17.97	17.80	17.87	17.87						
5	16QAM	1	24	17.82	17.89	17.97	17.89	17.86	17.86						
5	16QAM	12	7	17.74	17.84	17.93	17.84	17.86	17.86	18	2				
5	16QAM	12	13	17.82	17.74	17.88	17.75	17.80	17.80						
5	16QAM	12	19	17.81	17.71	17.81	17.68	17.73	17.73						
5	16QAM	25	0	16.87	17.00	17.07	16.87	17.00	17.00						
5	16QAM	25	12	16.71	16.74	16.85	16.82	16.72	16.72						
5	16QAM	1	12	16.74	16.77	16.87	16.87	16.81	16.81	17	3				
5	16QAM	1	18	16.58	16.58	16.75	16.72	16.65	16.65						
5	16QAM	12	0	15.97	15.99	16.03	15.96	15.98	15.98						
5	16QAM	12	13	15.92	15.92	16.03	15.94	15.95	15.95						
5	16QAM	25	0	15.88	15.90	16.03	15.86	15.88	15.88						
5	256QAM	1	0	13.72	13.72	13.85	13.72	13.82	13.82	15	5				
5	256QAM	1	24	13.83	13.95	14.04	13.86	13.90	13.90						
5	256QAM	1	24	13.84	13.94	13.97	13.80	13.83	13.83						
5	256QAM	12	0	13.72	13.99	14.03	13.83	13.93	13.93						
5	256QAM	12	7	13.87	13.82	13.81	13.73	13.77	13.77						
5	256QAM	12	13	13.88	13.92	13.96	13.86	13.89	13.89	15	5				
5	256QAM	12	19	13.87	13.94	14.00	13.81	13.87	13.87						
5	256QAM	25	0	13.82	13.94	14.05	13.91	14.02	14.02						
Channel															
Frequency (MHz)															
5	QPSK	1	0	18.86	18.96	19.22	18.96	19.19	19.19	20	0				
5	QPSK	1	12	18.83	18.93	19.09	18.95	18.99	18.99						
5	QPSK	1	24	18.78	18.88	19.04	18.90	18.94	18.94						
5	QPSK	12	0	17.86	17.96	18.04	17.87	18.03	18.03						
5	QPSK	12	7	17.85	17.85	18.01	17.83	17.84	17.84						
5	QPSK	12	13	17.90	17.80	17.96	17.86	17.93	17.93	19	1				
5	QPSK	25	0	17.74	17.90	17.96	17.86	17.84	17.84						
5	16QAM	1	0	17.87	17.99	18.09	17.88	17.94	17.94						
5	16QAM	1	12	17.68	17.84	17.97	17.80	17.87	17.87						
5	16QAM	1	24	17.82	17.89	17.97	17.89	17.86	17.86						
5	16QAM	12	7	17.74	17.84	17.93	17.84	17.86	17.86	18	2				



Band 42 FCC Part27Q Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				42190	42190	42190				
				3645	3645	3645				
20	QPSK	1	0	19.24	19.51	19.41				
20	QPSK	1	49	19.48	19.49	19.43		20		0
20	QPSK	1	99	19.42	19.55	19.52				
20	QPSK	50	0	19.53	19.51	19.51				
20	QPSK	50	24	18.40	18.53	18.41		19		1
20	QPSK	50	50	18.38	18.51	18.43				
20	QPSK	100	0	18.42	18.50	18.47				
20	16QAM	1	0	18.41	18.46	18.32		19		1
20	16QAM	1	49	18.39	18.41	18.40				
20	16QAM	1	99	18.41	18.32	18.49				
20	16QAM	50	0	17.41	17.51	17.36				
20	16QAM	50	24	17.47	17.40	17.39		18		2
20	16QAM	50	50	17.46	17.46	17.48				
20	16QAM	100	0	17.46	17.35	17.27				
20	64QAM	1	0	17.41	17.52	17.37				
20	64QAM	1	49	17.39	17.48	17.43		18		2
20	64QAM	1	99	17.37	17.44	17.42				
20	64QAM	50	0	16.48	16.52	16.49				
20	64QAM	50	24	16.50	16.38	16.43		17		3
20	64QAM	50	50	16.44	16.40	16.42				
20	64QAM	100	0	16.40	16.51	16.37				
20	256QAM	1	0	16.11	16.13	16.00				
20	256QAM	1	49	16.09	16.07	16.10		19		1
20	256QAM	1	99	16.03	16.03	16.02				
20	256QAM	50	0	15.07	16.26	16.11				
20	256QAM	50	24	15.13	15.07	15.14		19		1
20	256QAM	50	50	15.17	15.09	15.09				
20	256QAM	100	0	15.12	16.23	16.05				
Channel										
Frequency (MHz)				42165	42160	42115	Turn-up limit (dBm)	MPR (dB)		
				3612.3	3612	3612.5				
15	QPSK	1	0	19.18	19.53	19.43				
15	QPSK	1	37	19.36	19.39	19.40		20		0
15	QPSK	1	74	19.37	19.47	19.49				
15	QPSK	36	0	18.49	18.50	18.47				
15	QPSK	36	20	18.33	18.46	18.36		19		1
15	QPSK	36	36	18.36	18.36	18.36				
15	QPSK	75	0	16.27	16.36	16.42				
15	16QAM	1	0	18.31	18.40	18.29				
15	16QAM	1	37	18.31	18.36	18.27		19		1
15	16QAM	1	74	18.27	18.29	18.30				
15	16QAM	36	0	17.28	17.45	17.33				
15	16QAM	36	20	17.35	17.33	17.27		18		2
15	16QAM	36	36	17.33	17.42	17.35				
15	16QAM	75	0	17.33	17.44	17.29				
15	64QAM	1	0	17.26	17.49	17.28				
15	64QAM	1	37	17.35	17.44	17.34		18		2
15	64QAM	1	74	17.34	17.33	17.26				
15	64QAM	36	0	16.36	16.43	16.45				
15	64QAM	36	20	16.39	16.26	16.29		17		3
15	64QAM	36	36	16.34	16.34	16.34				
15	64QAM	75	0	15.29	15.44	15.25				
15	256QAM	1	0	15.07	15.01	17.06		19		1
15	256QAM	1	37	15.03	15.05	16.00				
15	256QAM	1	74	17.92	18.00	17.97				
15	256QAM	36	0	17.97	18.17	18.07				
15	256QAM	36	20	18.04	18.02	18.10		19		1
15	256QAM	36	36	18.04	18.00	18.04				
15	256QAM	75	0	16.03	16.16	16.09				
Channel										
Frequency (MHz)				42160	42160	42160	Turn-up limit (dBm)	MPR (dB)		
				3611.5	3611	3611				
10	QPSK	1	0	19.29	19.49	19.27				
10	QPSK	1	25	19.42	19.44	19.32		20		0
10	QPSK	1	49	19.29	19.46	19.43				
10	QPSK	25	0	18.40	18.55	18.45				
10	QPSK	25	12	18.31	18.42	18.32		19		1
10	QPSK	25	25	18.29	18.46	18.34				
10	QPSK	50	0	18.32	18.36	18.39				
10	16QAM	1	0	18.30	18.39	18.21				
10	16QAM	1	25	18.29	18.28	18.28		19		1
10	16QAM	1	49	18.28	18.28	18.32				
10	16QAM	25	0	17.33	17.44	17.24				
10	16QAM	25	12	17.36	17.31	17.26		18		2
10	16QAM	25	25	17.35	17.36	17.44				
10	16QAM	50	0	17.41	17.39	17.22				
10	64QAM	1	0	17.33	17.38	17.25				
10	64QAM	1	25	17.28	17.34	17.35		18		2
10	64QAM	1	49	17.26	17.39	17.27				
10	64QAM	25	0	16.30	16.46	16.40				
10	64QAM	25	12	16.43	16.33	16.37		17		3
10	64QAM	25	25	16.38	16.26	16.26				
10	64QAM	50	0	16.34	16.45	16.25				
10	256QAM	1	0	16.08	16.02	17.94				
10	256QAM	1	25	16.00	17.96	18.06		19		1
10	256QAM	1	49	17.95	17.96	17.98				
10	256QAM	25	0	17.86	18.12	17.97				
10	256QAM	25	12	18.03	17.96	18.03		19		1
10	256QAM	25	25	18.04	18.02	17.94				
10	256QAM	50	0	16.08	18.09	18.05				
Channel										
Frequency (MHz)				42115	42160	42160	Turn-up limit (dBm)	MPR (dB)		
				3611.5	3610	3611.5				
5	QPSK	1	0	19.18	19.54	19.36				
5	QPSK	1	24	19.40	19.42	19.37		20		0
5	QPSK	1	49	19.36	19.50	19.45				
5	QPSK	12	0	18.48	18.56	18.46				
5	QPSK	12	7	18.34	18.48	18.36		19		1
5	QPSK	12	13	18.31	18.45	18.37				
5	QPSK	25	0	18.36	18.44	18.41				
5	16QAM	1	0	18.35	18.39	18.27				
5	16QAM	1	12	18.33	18.36	18.35		19		1
5	16QAM	1	24	18.35	18.25	18.35				
5	16QAM	12	0	17.35	17.45	17.29				
5	16QAM	12	7	17.41	17.34	17.33		18		2
5	16QAM	12	13	17.34	17.40	17.41				
5	16QAM	25	0	17.41	17.45	17.32				
5	64QAM	1	0	17.35	17.48	17.32				
5	64QAM	1	12	17.33	17.41	17.38		18		2
5	64QAM	1	24	17.30	17.38	17.37				
5	64QAM	12	0	16.33	16.46	16.43				
5	64QAM	12	7	16.44	16.32	16.37		17		3
5	64QAM	12	13	16.38	16.34	16.35				
5	64QAM	25	0	16.35	16.45	16.30				
5	256QAM	1	0	16.08	16.08	17.95				
5	256QAM	1	12	16.02	18.00	18.04		19		1
5	256QAM	1	24	17.98	17.98	17.98				
5	256QAM	12	0	18.01	18.14	18.05				
5	256QAM	12	7	18.07	18.00	18.09		19		1
5	256QAM	12	13	18.12	18.03	18.03				
5	256QAM	25	0	16.05	16.17	18.09				

Band 42 FCC Part96 Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel				43190	43340	43460				
Frequency (MHz)				3666	3675	3686				
20	QPSK	1	0	19.14	19.51	19.32				
20	QPSK	1	49	19.38	19.39	19.34	20	0		
20	QPSK	1	99	19.32	19.49	19.43				
20	QPSK	50	0	18.43	18.51	18.41				
20	QPSK	50	24	18.39	18.43	18.31	19	1		
20	QPSK	50	50	18.27	18.41	18.33				
20	QPSK	100	0	18.32	18.40	18.38				
20	16QAM	1	0	18.32	18.36	18.22		19	1	
20	16QAM	1	49	18.29	18.31	18.31		19	1	
20	16QAM	1	99	18.31	18.23	18.30				
20	16QAM	50	0	17.31	17.41	17.26		18	2	
20	16QAM	50	24	17.37	17.31	17.29				
20	16QAM	50	50	17.31	17.36	17.38				
20	16QAM	100	0	17.29	17.42	17.27				
20	64QAM	1	0	17.31	17.42	17.27				
20	64QAM	1	49	17.29	17.38	17.33	18	2		
20	64QAM	1	99	17.37	17.33	17.32				
20	64QAM	50	0	16.29	16.41	16.30				
20	64QAM	50	24	16.40	16.28	16.33		17	3	
20	64QAM	50	50	16.30	16.37	16.32				
20	64QAM	100	0	16.30	16.42	16.27				
20	256QAM	1	0	16.00	16.03	16.00				
20	256QAM	1	49	17.29	17.39	17.30	19	1		
20	256QAM	1	99	17.37	17.63	17.62				
20	256QAM	50	0	17.17	17.29	17.22				
20	256QAM	50	24	16.03	17.07	16.04	19	1		
20	256QAM	50	50	16.02	17.08	17.09				
20	256QAM	100	0	16.02	16.13	16.09				
Channel				43155 <th>43345<th>43515</th><th>Turn-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	43345 <th>43515</th> <th>Turn-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	43515	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3712	3723	3734				
15	QPSK	1	0	19.14	19.51	19.32				
15	QPSK	1	24	19.26	19.29	19.30	20	0		
15	QPSK	1	74	19.27	19.32	19.39				
15	QPSK	50	0	18.39	18.42	18.32				
15	QPSK	50	24	18.23	18.36	18.28				
15	QPSK	50	50	18.16	18.29	18.28				
15	QPSK	75	0	18.18	18.26	18.32				
15	16QAM	1	0	18.21	18.30	18.19				
15	16QAM	1	24	18.21	18.19	18.17	19	1		
15	16QAM	1	74	18.17	18.19	18.20				
15	16QAM	50	0	17.18	17.26	17.23				
15	16QAM	50	24	17.23	17.23	17.19	18	2		
15	16QAM	50	50	17.22	17.30	17.25				
15	16QAM	75	0	17.22	17.29	17.29				
15	64QAM	1	0	17.16	17.40	17.18				
15	64QAM	1	24	17.26	17.34	17.24	18	2		
15	64QAM	1	74	17.22	17.25	17.28				
15	64QAM	50	0	16.29	16.38	16.19				
15	64QAM	50	24	16.29	16.16	16.19	17	3		
15	64QAM	50	50	16.16	16.28	16.19				
15	64QAM	75	0	16.19	16.34	16.15				
15	256QAM	1	0	16.00	16.03	16.00				
15	256QAM	1	24	17.03	17.05	17.00	19	1		
15	256QAM	1	74	17.62	17.60	17.68				
15	256QAM	50	0	16.00	16.03	16.00				
15	256QAM	50	24	17.04	17.02	17.04	18	1		
15	256QAM	50	50	17.03	17.09	17.09				
Channel				43140 <th>43340<th>43560</th><th>Turn-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	43340 <th>43560</th> <th>Turn-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	43560	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3749	3760	3771				
10	QPSK	1	0	19.08	19.34	19.26				
10	QPSK	1	25	19.32	19.34	19.22	20	0		
10	QPSK	1	50	19.29	19.34	19.30				
10	QPSK	25	0	18.30	18.48	18.32				
10	QPSK	25	12	18.21	18.32	18.22	19	1		
10	QPSK	25	37	18.29	18.32	18.24				
10	QPSK	50	0	18.22	18.28	18.28				
10	16QAM	1	0	18.20	18.20	18.15				
10	16QAM	1	25	18.18	18.19	18.18	19	1		
10	16QAM	1	49	18.18	18.17	18.22				
10	16QAM	25	0	17.23	17.36	17.14				
10	16QAM	25	12	17.28	17.28	17.25	18	2		
10	16QAM	25	37	17.20	17.28	17.24				
10	16QAM	50	0	17.31	17.31	17.23				
10	64QAM	1	0	17.23	17.29	17.17				
10	64QAM	1	25	17.18	17.24	17.28	18	2		
10	64QAM	25	0	16.20	16.30	16.19				
10	64QAM	25	12	16.33	16.23	16.27	17	3		
10	64QAM	25	37	16.26	16.31	16.17				
10	64QAM	50	0	16.24	16.35	16.16				
10	64QAM	50	12	17.06	17.06	17.04				
10	256QAM	1	0	16.00	16.03	16.00	19	1		
10	256QAM	1	25	17.00	17.08	17.05				
10	256QAM	1	49	17.85	17.86	17.87				
10	256QAM	25	0	17.17	18.02	17.84	19	1		
10	256QAM	25	12	17.82	17.87	17.83				
10	256QAM	25	37	17.84	17.82	17.84				
10	256QAM	50	0	17.17	17.89	17.89				
Channel				43115 <th>43340<th>43565</th><th>Turn-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	43340 <th>43565</th> <th>Turn-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	43565	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3808	3824	3840				
5	QPSK	1	0	19.08	19.34	19.26				
5	QPSK	1	12	19.30	19.32	19.27	20	0		
5	QPSK	1	25	19.32	19.34	19.26				
5	QPSK	12	0	18.38	18.47	18.36				
5	QPSK	12	7	18.24	18.38	18.26	19	1		
5	16QAM	1	0	18.26	18.26	18.17				
5	16QAM	1	12	18.23	18.29	18.25	18	2		
5	16QAM	1	25	18.23	18.29	18.25				
5	16QAM	12	0	18.26	18.15	18.25				
5	16QAM	12	7	17.31	17.24	17.23	18	2		
5	16QAM	12	13	17.24	17.38	17.31				
5	64QAM	1	0	17.31	17.38	17.27				
5	64QAM	1	12	17.23	17.31	17.28	18	2		
5	64QAM	1	25	17.23	17.31	17.27				
5	64QAM	12	0	16.23	16.35	16.18				
5	64QAM	12	7	16.26	16.27	16.28	17	3		
5	64QAM	12	13	16.28	16.24	16.24				
5	256QAM	1	0	16.00	16.03	16.00	19	1		
5	256QAM	1	12	17.02	17.00	17.04				
5	256QAM	1	24	17.86	17.86	17.86				
5	256QAM	12	0	17.18	18.05	17.86	19	1		
5	256QAM	12	7	17.87	17.89	18.00				
5	256QAM	12	13	18.03	17.80	17.89				



Band 43 for FCC use Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)				43690	44090	44490				
20	QPSK	1	0	19.84	19.90	19.99	20	0		
20	QPSK	1	49	19.48	19.58	19.54				
20	QPSK	50	0	19.44	19.52	19.42				
20	QPSK	50	5	19.26	19.32	19.22				
20	QPSK	50	24	18.14	18.24	18.18	19	1		
20	QPSK	50	50	18.16	18.26	18.18				
20	QPSK	100	0	18.11	18.23	18.21				
20	16QAM	1	0	18.18	18.30	18.23				
20	16QAM	1	49	18.23	18.33	18.27	19	1		
20	16QAM	1	99	18.19	18.18	18.18				
20	16QAM	50	0	17.23	17.30	17.26				
20	16QAM	50	24	17.31	17.20	17.25				
20	16QAM	50	50	17.33	17.31	17.29	18	2		
20	16QAM	100	0	17.20	17.26	17.19				
20	8QAM	1	0	17.21	17.35	17.25				
20	8QAM	1	49	17.26	17.31	17.25				
20	8QAM	1	99	17.26	17.30	17.33	18	2		
20	8QAM	50	0	16.30	16.34	16.31				
20	8QAM	50	24	16.29	16.20	16.29				
20	8QAM	50	50	16.27	16.20	16.25				
20	8QAM	100	0	16.16	16.25	16.13	17	3		
20	256QAM	1	0	16.13	16.27	16.15				
20	256QAM	1	49	16.14	16.22	16.23				
20	256QAM	1	99	16.22	16.21	16.14				
20	256QAM	36	0	16.27	16.33	16.27	19	1		
20	256QAM	36	24	16.27	16.33	16.27				
20	256QAM	50	24	16.24	16.21	16.30				
20	256QAM	50	50	16.21	16.23	16.25				
20	256QAM	100	0	16.14	16.25	16.18	19	1		
Channel				43695	44095	44515	Turn-up limit (dBm)	MPE (dB)		
Frequency (MHz)				43695	44095	44515				
15	QPSK	1	0	19.18	19.10	19.13	20	0		
15	QPSK	1	37	19.42	19.50	19.47				
15	QPSK	1	74	19.38	19.46	19.36				
15	QPSK	36	0	19.20	19.25	19.19				
15	QPSK	36	20	18.08	18.17	18.13	19	1		
15	QPSK	36	36	18.10	18.19	18.13				
15	QPSK	75	0	18.04	18.17	18.16				
15	16QAM	1	0	18.12	18.24	18.17				
15	16QAM	1	37	18.16	18.17	18.15	19	1		
15	16QAM	1	74	18.13	18.13	18.11				
15	16QAM	36	0	17.18	17.30	17.19				
15	16QAM	36	20	17.25	17.14	17.20				
15	16QAM	36	36	17.28	17.26	17.29	18	2		
15	16QAM	75	0	17.14	17.20	17.12				
15	8QAM	1	0	17.16	17.30	17.15				
15	8QAM	1	37	17.19	17.25	17.18				
15	8QAM	1	74	17.19	17.23	17.19	18	2		
15	8QAM	36	0	16.24	16.28	16.25				
15	8QAM	36	20	16.23	16.14	16.23				
15	8QAM	36	36	16.25	16.25	16.25				
15	8QAM	75	0	16.10	16.19	16.05	17	3		
15	256QAM	1	0	16.07	16.22	16.09				
15	256QAM	1	37	16.08	16.15	16.07				
15	256QAM	1	74	16.18	16.14	16.09				
15	256QAM	36	0	16.21	16.27	16.21	19	1		
15	256QAM	36	20	16.19	16.15	16.25				
15	256QAM	36	36	16.16	16.17	16.20				
15	256QAM	75	0	16.08	16.16	16.11				
Channel				43695	44095	44515	Turn-up limit (dBm)	MPE (dB)		
Frequency (MHz)				43695 <th>44095<th>44515</th><th></th><th></th><th></th><th></th></th>	44095 <th>44515</th> <th></th> <th></th> <th></th> <th></th>	44515				
10	QPSK	1	0	19.87	19.80	19.80	20	0		
10	QPSK	1	25	19.43	19.49	19.49				
10	QPSK	1	49	19.39	19.46	19.38				
10	QPSK	25	0	19.10	19.26	19.18				
10	QPSK	25	12	18.08	18.18	18.11	19	1		
10	QPSK	25	25	18.11	18.20	18.12				
10	QPSK	50	0	18.06	18.18	18.16				
10	16QAM	1	0	18.12	18.23	18.17				
10	16QAM	1	25	18.17	18.18	18.16	19	1		
10	16QAM	1	49	18.13	18.12	18.12				
10	16QAM	25	0	17.16	17.29	17.21				
10	16QAM	25	12	17.26	17.14	17.29				
10	16QAM	25	25	17.28	17.25	17.19	18	2		
10	16QAM	50	0	17.14	17.19	17.11				
10	8QAM	1	0	17.16	17.26	17.14				
10	8QAM	1	25	17.21	17.24	17.19				
10	8QAM	1	49	17.18	17.25	17.24	18	2		
10	8QAM	25	0	16.23	16.28	16.25				
10	8QAM	25	12	16.22	16.14	16.22				
10	8QAM	25	25	16.21	16.14	16.18				
10	8QAM	50	0	16.11	16.20	16.08	17	3		
10	256QAM	1	0	16.07	16.21	16.09				
10	256QAM	1	25	16.08	16.17	16.10				
10	256QAM	1	49	16.15	16.14	16.09				
10	256QAM	25	0	16.22	16.28	16.21	19	1		
10	256QAM	25	12	16.19	16.14	16.25				
10	256QAM	25	25	16.16	16.17	16.19				
10	256QAM	50	0	16.08	16.19	16.13				
Channel				43615	44040	44565	Turn-up limit (dBm)	MPE (dB)		
Frequency (MHz)				43615	44040	44565				
5	QPSK	1	0	19.88	19.80	19.84	20	0		
5	QPSK	1	12	19.42	19.50	19.47				
5	QPSK	1	24	19.37	19.45	19.36				
5	QPSK	12	0	18.46	18.56	18.15				
5	QPSK	12	7	18.08	18.18	18.11	19	1		
5	QPSK	12	13	18.10	18.20	18.13				
5	QPSK	25	0	18.06	18.16	18.10				
5	16QAM	1	0	18.12	18.23	18.17				
5	16QAM	1	12	18.18	18.16	18.17	19	1		
5	16QAM	1	24	18.13	18.12	18.11				
5	16QAM	12	0	17.17	17.19	17.21				
5	16QAM	12	7	17.26	17.14	17.19				
5	16QAM	12	13	17.27	17.25	17.19	18	2		
5	16QAM	25	0	17.13	17.20	17.13				
5	8QAM	1	0	17.19	17.29	17.13				
5	8QAM	1	12	17.21	17.25	17.20				
5	8QAM	1	24	17.17	17.24	17.23	18	2		
5	8QAM	12	0	16.25	16.28	16.24				
5	8QAM	12	7	16.23	16.14	16.23				
5	8QAM	12	13	16.20	16.16	16.18				
5	8QAM	25	0	16.11	16.16	16.08	17	3		



Reduced Power Mode for DS12 Standalone

Continous Avg		RdM Average Power (dBm)			Txm-up			Txm-Average Power (dBm)			Txm-up	
Tx Channel		158	160	261	Line	158	160	261	Line		Line	
Frequency (MHz)		804.2	804.6	818.8	(dBm)	804.2	804.6	818.8	(dBm)			
DRM 1 Tx out		32.61	32.66	32.57	33.50	23.61	23.66	23.57	24.50			
OPR1 3 Tx out		32.58	32.64	32.51	33.50	23.58	23.64	23.51	24.50			
OPR1 3 Tx side		25.18	25.05	25.40	30.50	15.18	23.58	23.95	24.50			
OPR1 3 Tx side		28.00	28.86	28.15	29.00	20.74	24.10	23.89	24.74			
OPR1 4 Tx side		25.09	26.02	25.97	27.00	22.09	23.02	22.97	24.00			
EDGE 1 Tx out		25.36	25.72	25.42	26.50	16.36	16.72	16.42	17.50			
EDGE 3 Tx out		23.70	23.27	23.72	24.00	17.70	17.37	17.72	18.00			
EDGE 3 Tx side		22.54	22.77	22.54	23.50	16.26	16.51	16.26	16.24			
EDGE 4 Tx side		20.46	20.60	20.46	21.00	17.46	17.60	17.46	18.00			
WCDMA V-Ave												
Burst		WCDMA V-Ave										
Tx Channel		4132	4161	4233								
Rx Channel		4367	4407	4458								
Frequency (MHz)		2514	2524	2535								
SCPP Rel 99		AMR 12.2kbit	23.88	24.13	23.90	25.00						
SCPP Rel 99		AMR 12.2kbit	23.92	24.22	24.05	25.00						
SCPP Rel 6		HSDPA Subsect 1	23.90	23.27	23.15	24.00						
SCPP Rel 6		HSDPA Subsect 2	22.92	23.11	23.19	24.00						
SCPP Rel 6		HSDPA Subsect 3	23.94	22.75	23.61	23.00						
SCPP Rel 6		HSDPA Subsect 4	22.42	22.71	22.62	23.50						
SCPP Rel 6		DC-HSDPA Subsect 1	22.96	22.76	23.08	24.00						
SCPP Rel 6		DC-HSDPA Subsect 2	23.81	23.07	23.07	24.00						
SCPP Rel 6		DC-HSDPA Subsect 3	22.94	22.61	22.62	23.50						
SCPP Rel 6		DC-HSDPA Subsect 4	23.30	22.59	22.46	23.00						
SCPP Rel 6		HSPA Subsect 1	22.84	23.11	23.00	24.00						
SCPP Rel 6		HSPA Subsect 2	21.01	21.23	20.66	22.00						
SCPP Rel 6		HSPA Subsect 3	21.92	22.17	22.01	23.00						
SCPP Rel 6		HSPA Subsect 4	20.73	21.06	21.08	22.00						
SCPP Rel 6		HSPA Subsect 5	21.85	23.01	23.10	24.00						

GSM900 Airtel	Band Average Power (dBm)			Tuning Limit	Fracile Average Power (dBm)			Tuning Limit
	512	561	610		512	561	610	
TX Channel	512	561	610	(dBm)	512	561	610	(dBm)
Frequency (MHz)	844.2	846.4	848.6		844.2	846.4	848.6	
OPRR 1 Tx Watt	32.14	32.73	32.83	33.20	23.14	23.73	23.63	24.00
OPRR 1 Tx Watt	32.87	32.71	32.65	33.50	23.67	23.71	23.50	24.00
OPRR 2 Tx Watt	29.50	29.48	29.41	30.00	23.55	23.46	23.41	24.00
OPRR 3 Tx Watt	26.10	26.50	26.15	26.00	23.84	23.57	23.80	24.10
OPRR 4 Tx Watt	26.34	26.54	26.50	27.00	23.34	23.54	23.50	24.00
EDGE 1 Tx Watt	25.15	25.51	25.84	27.00	18.75	18.01	18.84	18.00
EDGE 2 Tx Watt	24.07	24.20	23.88	23.50	18.07	18.20	17.88	18.50
EDGE 3 Tx Watt	22.84	22.97	22.74	24.00	18.58	18.71	18.48	19.14
EDGE 4 Tx Watt	20.84	20.50	20.81	22.00	17.84	17.69	17.81	18.00

GSM900 Airtel								
	Band Average Power (dBm)			Tuning Limit	Frac. Band Average Power (dBm)			Tuning Limit
	512	561	610		512	561	610	
TX Channel	512	561	610	(dBm)	512	561	610	(dBm)
Frequency (MHz)	844.2	846.4	848.6		844.2	846.4	848.6	
OPRR 1 Tx Watt	26.35	26.54	26.51	28.00	17.55	17.04	17.51	18.00
OPRR 1 Tx Watt	26.40	26.62	26.55	28.00	17.80	17.62	17.55	18.00
OPRR 3 Tx Watt	23.84	23.85	23.77	25.00	17.84	17.85	17.77	18.00
OPRR 3 Tx Watt	21.92	22.00	21.93	23.30	17.69	17.77	17.67	18.04
OPRR 4 Tx Watt	20.56	20.70	20.66	22.00	17.56	17.77	17.66	18.00
OPRR 4 Tx Watt	24.11	24.57	25.04	25.00	15.11	15.57	14.94	16.00
EDGE 2 Tx Watt	22.47	22.75	22.94	23.50	16.47	16.73	16.94	17.50
EDGE 3 Tx Watt	21.32	21.57	21.20	22.00	17.06	17.31	16.94	17.74
EDGE 4 Tx Watt	19.18	19.40	19.33	20.00	16.18	16.40	16.33	17.00

WCDMA V Airtel				WCDMA V Airtel				WCDMA V Airtel			
Band	WCDMA V Airtel			Tuning Limit	WCDMA V Airtel			Tuning Limit	WCDMA V Airtel		
	9302	9400	9508		13152	14116	15513		41152	41852	42330
TX Channel	9302	9400	9508	(dBm)	13152	14116	15513	(dBm)	41152	41852	42330
Frequency (MHz)	1820.4	1880	1907.6		17192.4	17251.6	17592.8		850.4	836.4	846.6
SCPP PWR 50	15.76	15.20	12.83	17.20	18.50	18.82	18.60	18.00	23.72	23.00	23.81
SCPP PWR 50	15.81	15.07	15.06	17.20	18.83	17.05	18.88	18.00	23.83	24.00	23.90
SCPP PWR 50	15.01	15.40	15.19	16.20	15.77	16.77	16.01	17.00	22.83	22.97	22.76
SCPP PWR 50	15.06	15.35	15.24	16.20	15.83	16.03	15.11	17.00	22.82	22.96	22.85
SCPP PWR 50	14.70	14.79	14.80	15.70	16.22	15.65	15.48	16.50	22.87	22.48	22.16
SCPP PWR 50	14.64	14.71	14.63	15.70	15.93	15.54	15.01	16.50	22.64	22.48	22.16
SCPP PWR 50	15.10	15.10	15.10	16.20	15.82	16.04	15.50	17.00	23.10	22.85	22.60
SCPP PWR 50	15.02	15.21	15.22	16.20	15.73	15.80	15.83	17.00	22.76	22.84	22.90
SCPP PWR 50	14.51	14.70	14.63	15.70	15.24	15.46	15.30	16.50	22.41	22.48	22.16
SCPP PWR 50	14.66	14.60	14.57	15.70	15.37	15.42	15.29	16.50	22.27	22.22	22.07
SCPP PWR 50	15.04	15.30	15.01	16.20	15.75	16.00	15.83	17.00	22.80	22.76	22.50
SCPP PWR 50	13.04	13.00	13.08	14.20	13.79	14.09	13.74	15.00	20.79	20.69	20.50
SCPP PWR 50	13.64	13.90	13.70	15.20	14.63	14.84	14.66	16.00	21.75	21.87	21.66
SCPP PWR 50	12.88	12.80	12.86	14.20	13.81	13.59	13.56	15.00	20.80	20.72	20.60
SCPP PWR 50	13.03	13.00	13.01	16.20	15.80	16.00	15.96	17.00	22.90	22.86	22.76

GSM1900 Aircel							
TX Channel	Rx Channel Power (dBm)			Tune-up	Tx Channel Power (dBm)		
Frequency (MHz)	512	861	1311	1414	512	861	1311
GSM 1 Tx Min	20.34	20.47	20.43	20.50	20.34	20.47	20.43
GPRS 1 Tx Min	20.34	20.47	20.43	20.50	20.34	20.47	20.43
GPRS 2 Tx Min	20.66	20.84	20.72	20.60	19.66	19.84	19.72
GPRS 3 Tx Min	20.42	20.23	20.48	20.50	20.16	20.09	20.22
GPRS 4 Tx Min	21.64	21.00	21.86	23.00	19.64	18.92	18.80
EDGE 1 Tx Min	23.62	23.67	23.68	23.00	14.62	14.67	14.68
EDGE 2 Tx Min	20.16	22.16	22.13	23.00	16.16	16.16	16.13
EDGE 3 Tx Min	20.90	20.00	20.95	22.00	16.64	16.72	16.69
EDGE 4 Tx Min	18.75	18.53	18.81	20.00	15.75	15.83	15.81

WCDMA II Aircel							
BSP	WCDMA II Aircel			Tune-up	WCDMA IV Aircel		
Rx Channel	5262	5640	6038	Line	1312	1413	1513
SC Channel	9582	9600	9608	(dBm)	1557	1606	1738
SCPP Rel 56	23.85	23.03	23.86	25.00	23.81	24.05	23.90
SCPP Rel 56	23.85	24.05	23.86	25.00	23.82	24.12	24.06
SCPP Rel 56	22.97	22.70	22.79	24.00	23.02	23.12	23.00
SCPP Rel 56	22.92	22.66	22.79	24.00	23.09	23.09	23.81
SCPP Rel 56	22.41	22.44	22.22	23.00	22.49	22.59	23.33
SCPP Rel 56	22.30	22.39	22.17	23.00	22.69	22.62	22.40
SCPP Rel 56	22.60	22.69	22.64	24.00	22.60	22.74	22.60
SCPP Rel 56	22.75	22.61	22.74	24.00	22.87	22.66	22.73
SCPP Rel 56	22.44	22.20	22.21	23.00	22.49	22.58	22.29
SCPP Rel 56	22.37	22.25	22.12	23.00	22.42	22.36	22.75
SCPP Rel 56	22.96	22.66	22.78	24.00	22.85	22.86	22.75
SCPP Rel 56	20.17	20.64	20.80	22.00	20.66	21.03	20.70
SCPP Rel 56	21.74	21.91	21.63	23.00	21.62	22.00	21.74
SCPP Rel 56	20.86	20.81	20.80	22.00	20.86	20.86	20.81
SCPP Rel 56	22.09	22.00	22.78	24.00	22.89	23.03	22.83



Band 5 Ant0														
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 800 806.5 844														
10	QPSK	1	0	22.60	22.73	22.68	24	0						
10	QPSK	1	25	22.51	22.58	22.54								
10	QPSK	1	49	22.50	22.64	22.55								
10	QPSK	25	0	21.69	21.72	21.62								
10	QPSK	25	12	21.44	21.53	21.44	23	1						
10	QPSK	25	25	21.53	21.66	21.61								
10	QPSK	50	0	21.61	21.65	21.59								
10	16QAM	1	0	21.59	21.67	21.61								
10	16QAM	1	25	21.41	21.52	21.38	23	1						
10	16QAM	1	49	21.54	21.65	21.45								
10	16QAM	25	0	20.47	20.55	20.43								
10	16QAM	25	12	20.35	20.49	20.35								
10	16QAM	25	25	20.50	20.66	20.53	22	2						
10	16QAM	50	0	20.54	20.65	20.59								
10	64QAM	1	0	20.51	20.59	20.54								
10	64QAM	1	25	20.45	20.51	20.47								
10	64QAM	1	49	20.55	20.65	20.53	21	3						
10	64QAM	25	0	19.47	19.52	19.40								
10	64QAM	25	12	19.52	19.63	19.59								
10	64QAM	25	25	19.44	19.49	19.35								
10	64QAM	50	0	19.50	19.62	19.54	19	5						
10	256QAM	1	0	17.46	17.54	17.44								
10	256QAM	1	25	17.44	17.45	17.40								
10	256QAM	1	49	17.49	17.62	17.52								
10	256QAM	25	0	17.40	17.50	17.44								
10	256QAM	25	12	17.50	17.63	17.50								
10	256QAM	25	25	17.50	17.56	17.44								
10	256QAM	50	0	17.61	17.67	17.54	19	5						
Channel 20405 20525 20605														
5	QPSK	1	0	22.54	22.66	22.54					24	0		
5	QPSK	1	12	22.39	22.48	22.44								
5	QPSK	1	24	22.45	22.54	22.47								
5	QPSK	12	0	21.65	21.68	21.55								
5	QPSK	12	7	21.35	21.44	21.39	23	1						
5	QPSK	12	13	21.45	21.52	21.51								
5	QPSK	25	0	21.60	21.54	21.48								
5	16QAM	1	0	21.53	21.56	21.52								
5	16QAM	1	12	21.31	21.49	21.32	23	1						
5	16QAM	1	24	21.47	21.47	21.31								
5	16QAM	12	0	20.43	20.51	20.37								
5	16QAM	12	7	20.25	20.36	20.21								
5	16QAM	12	13	20.54	20.66	20.49	22	2						
5	16QAM	25	0	20.48	20.58	20.46								
5	64QAM	1	0	20.38	20.54	20.48								
5	64QAM	1	12	20.31	20.45	20.34								
5	64QAM	1	24	20.43	20.52	20.47	21	3						
5	64QAM	12	0	19.38	19.40	19.25								
5	64QAM	12	13	19.41	19.53	19.50								
5	64QAM	12	13	19.39	19.44	19.24								
5	64QAM	25	0	19.38	19.52	19.39	19	5						
5	256QAM	1	0	17.43	17.46	17.38								
5	256QAM	1	12	17.40	17.47	17.31								
5	256QAM	1	24	17.45	17.52	17.45								
5	256QAM	12	0	17.40	17.46	17.36	19	5						
5	256QAM	12	7	17.44	17.50	17.40								
5	256QAM	12	13	17.45	17.50	17.35								
5	256QAM	25	0	17.44	17.50	17.46								
Channel 20415 20525 20605														
5	QPSK	1	0	22.51	22.63	22.54					24	0		
3	QPSK	1	8	22.42	22.53	22.41								
3	QPSK	1	14	22.38	22.60	22.51								
3	QPSK	8	0	21.66	21.68	21.56								
3	QPSK	8	7	21.39	21.43	21.34	23	1						
3	QPSK	8	7	21.40	21.55	21.57								
3	16QAM	1	0	21.54	21.57	21.48								
3	16QAM	1	0	21.49	21.55	21.52								
3	16QAM	1	8	21.34	21.41	21.31	23	1						
3	16QAM	1	14	21.42	21.51	21.39								
3	16QAM	8	0	20.41	20.49	20.39								
3	16QAM	8	4	20.21	20.40	20.21								
3	16QAM	8	7	20.35	20.51	20.47	22	2						
3	64QAM	15	0	20.48	20.61	20.50								
3	64QAM	1	0	20.47	20.44	20.45								
3	64QAM	1	8	20.33	20.40	20.33								
3	64QAM	1	14	20.43	20.62	20.43	21	3						
3	64QAM	8	0	19.35	19.40	19.33								
3	64QAM	8	4	19.38	19.50	19.33								
3	64QAM	8	7	19.38	19.39	19.23								
3	64QAM	15	0	19.37	19.54	19.46	19	5						
3	256QAM	1	0	17.38	17.41	17.34								
3	256QAM	1	8	17.37	17.38	17.27								
3	256QAM	1	14	17.40	17.57	17.37								
3	256QAM	8	0	17.26	17.41	17.25	19	5						
3	256QAM	8	4	17.39	17.59	17.47								
3	256QAM	8	7	17.40	17.52	17.40								
3	256QAM	15	0	17.47	17.60	17.46								
Channel 20407 20525 20605														
1.4	QPSK	1	0	22.54	22.70	22.57					24	0		
1.4	QPSK	1	3	22.40	22.50	22.49								
1.4	QPSK	1	5	22.35	22.50	22.41								
1.4	QPSK	3	0	22.64	22.67	22.48								
1.4	QPSK	3	1	22.35	22.43	22.39	23	1						
1.4	QPSK	3	3	22.41	22.52	22.48								
1.4	QPSK	3	1	21.48	21.56	21.43								
1.4	16QAM	1	0	21.48	21.52	21.50								
1.4	16QAM	1	3	21.32	21.45	21.29	23	1						
1.4	16QAM	1	5	21.48	21.52	21.40								
1.4	16QAM	3	0	21.37	21.47	21.37								
1.4	16QAM	3	1	21.52	21.42	21.20								
1.4	16QAM	3	3	21.35	21.48	21.43	22	2						
1.4	16QAM	6	0	20.43	20.56	20.49								
1.4	64QAM	1	0	20.37	20.35	20.45								
1.4	64QAM	1	3	20.40	20.40	20.39								
1.4	64QAM	1	5	20.41	20.61	20.39	22	2						
1.4	64QAM	3	0	20.32	20.49	20.32								
1.4	64QAM	3	1	20.48	20.48	20.30								
1.4	64QAM	3	3	20.39	20.40	20.26								
1.4	64QAM	6	0	19.40	19.55	19.46	21	3						
1.4	256QAM	1	0	17.40	17.47	17.35								
1.4	256QAM	1	3	17.40	17.49	17.36								
1.4	256QAM	1	5	17.43	17.49	17.36								
1.4	256QAM	3	0	17.26	17.36	17.41	19	5						
1.4	256QAM	3	1	17.41	17.52	17.45								
1.4	256QAM	3	3	17.44	17.42	17								
1.4	256QAM	6	0	17.54	17.57	17.43	19	5						

Band 17 Ant0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (dB)	MPFS (dB)				
Channel												
Frequency (MHz)												
710 711 711												
10	QPSK	1	0	22.85	22.85	22.92	24	0				
10	QPSK	1	24	22.77	22.85	22.92						
10	QPSK	1	48	22.75	22.81	22.88						
10	QPSK	25	0	21.82	21.84	21.84						
10	QPSK	25	12	21.78	21.80	21.83	23	1				
10	QPSK	25	25	21.71	21.69	21.79						
10	QPSK	50	0	21.80	21.85	21.77						
10	16QAM	1	0	20.95	20.92	20.90						
10	16QAM	1	25	21.83	21.90	21.90	23	1				
10	16QAM	1	49	21.83	21.91	21.87						
10	16QAM	25	0	20.81	20.95	20.92						
10	16QAM	25	12	20.71	20.82	20.78						
10	16QAM	25	25	20.79	20.87	20.80	22	2				
10	16QAM	50	0	20.81	20.91	20.82						
10	64QAM	1	0	21.00	21.04	21.00						
10	64QAM	1	25	20.89	20.92	20.90		22	2			
10	64QAM	1	49	20.82	20.91	20.79						
10	64QAM	25	0	19.84	19.78	19.62						
10	64QAM	25	12	19.79	19.86	19.73						
10	64QAM	25	25	19.87	19.71	19.57	21	3				
10	64QAM	50	0	19.75	19.69	19.82						
10	256QAM	1	0	17.69	17.69	17.66						
10	256QAM	1	25	17.85	17.84	17.88		19	5			
10	256QAM	1	49	17.71	17.86	17.78						
10	256QAM	25	0	17.81	17.80	17.86						
10	256QAM	25	12	17.74	17.84	17.75	19	5				
10	256QAM	25	25	17.85	17.79	17.75						
10	256QAM	50	0	17.79	17.83	17.78						
Channel												
Frequency (MHz)												
706.5 710 713.5												
5	QPSK	1	0	22.71	22.85	22.83	24	0				
5	QPSK	1	12	22.70	22.71	22.71						
5	QPSK	1	24	22.68	22.75	22.61						
5	QPSK	12	0	21.76	21.90	21.80						
5	QPSK	12	7	21.67	21.79	21.71	23	1				
5	QPSK	12	13	21.65	21.75	21.69						
5	QPSK	25	0	21.67	21.77	21.64						
5	16QAM	1	0	21.98	21.97	21.92						
5	16QAM	1	12	21.89	21.93	21.84	23	1				
5	16QAM	1	24	21.78	21.80	21.75						
5	16QAM	12	0	20.67	20.91	20.77						
5	16QAM	12	7	20.64	20.70	20.64		22	2			
5	16QAM	12	13	20.71	20.72	20.70						
5	16QAM	25	0	20.75	20.78	20.78						
5	64QAM	1	0	20.90	20.85	20.90	23	2				
5	64QAM	1	12	20.80	20.82	20.84						
5	64QAM	1	24	20.88	20.91	20.89						
5	64QAM	12	0	19.83	19.86	19.81						
5	64QAM	12	7	19.83	19.83	19.84	21	3				
5	64QAM	12	13	19.90	19.92	19.93						
5	64QAM	25	0	19.81	19.78	19.77						
5	256QAM	1	0	17.84	17.82	17.76						
5	256QAM	1	12	17.75	17.85	17.75	19	5				
5	256QAM	1	24	17.88	17.75	17.69						
5	256QAM	12	0	17.78	17.77	17.74						
5	256QAM	12	7	17.80	17.75	17.83						
5	256QAM	12	13	17.87	17.65	17.71	19	5				
5	256QAM	25	0	17.72	17.68	17.76						

Band 26 for FCC Ant0													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (dBm)	MPFS (dB)					
Channel													
Frequency (MHz)													
821.5 831.5 841.5													
15	QPSK	1	0	22.58	22.77	22.67	24	0					
15	QPSK	1	37	22.47	22.57	22.52							
15	QPSK	1	74	22.39	22.63	22.54							
15	QPSK	36	0	21.51	21.63	21.60							
15	QPSK	36	20	21.50	21.59	21.50	23	1					
15	QPSK	36	36	21.40	21.54	21.46							
15	QPSK	75	0	21.59	21.67	21.67							
15	16QAM	1	0	21.72	21.80	21.70							
15	16QAM	1	37	21.56	21.71	21.63	23	1					
15	16QAM	1	74	21.55	21.68	21.63							
15	16QAM	36	0	20.49	20.52	20.48							
15	16QAM	36	20	20.68	20.73	20.62		22	2				
15	16QAM	36	39	20.64	20.67	20.67							
15	16QAM	75	0	20.50	20.58	20.52							
15	64QAM	1	0	20.68	20.72	20.69	22	2					
15	64QAM	1	37	20.55	20.64	20.54							
15	64QAM	1	74	20.65	20.78	20.72							
15	64QAM	36	0	19.54	19.65	19.59							
15	64QAM	36	20	19.52	19.74	19.61	21	3					
15	64QAM	36	39	19.54	19.68	19.54							
15	64QAM	75	0	19.50	19.64	19.51							
15	256QAM	1	0	17.46	17.71	17.46							
15	256QAM	1	37	17.56	17.61	17.55	19	5					
15	256QAM	1	74	17.59	17.67	17.57							
15	256QAM	36	0	17.52	17.63	17.57							
15	256QAM	36	20	17.65	17.72	17.65		19	5				
15	256QAM	36	39	17.52	17.65	17.61							
15	256QAM	75	0	17.61	17.68	17.57							
Channel													
Frequency (MHz)													
819 831.5 844													
10	QPSK	1	0	22.49	22.72	22.60	24	0					
10	QPSK	1	25	22.39	22.44	22.43							
10	QPSK	1	49	22.55	22.61	22.49							
10	QPSK	25	0	21.37	21.54	21.37							
10	QPSK	25	12	21.40	21.48	21.41	23	1					
10	QPSK	25	25	21.34	21.48	21.41							
10	QPSK	50	0	21.54	21.52	21.48							
10	16QAM	1	0	21.61	21.68	21.65							
10	16QAM	1	25	21.52	21.67	21.54	23	1					
10	16QAM	1	49	21.44	21.62	21.46							
10	16QAM	25	0	20.42	20.58	20.38							
10	16QAM	25	12	20.64	20.59	20.49		22	2				
10	16QAM	25	25	20.59	20.58	20.57							
10	16QAM	50	0	20.44	20.53	20.46							
10	64QAM	1	0	20.55	20.60	20.51	23	2					
10	64QAM	1	25	20.51	20.55	20.48							
10	64QAM	1	49	20.57	20.62	20.57							
10	64QAM	25	0	19.39	19.58	19.52							
10	64QAM	25	12	19.45	19.59	19.48	21	3					
10	64QAM	25	25	19.53	19.54	19.43							
10	64QAM	50	0	19.41	19.58	19.40							
10	256QAM	1	0	17.57	17.62	17.55							
10	256QAM	1	25	17.52	17.55	17.48	19	5					
10	256QAM	1	49	17.45	17.63	17.44							
10	256QAM	25	0	17.42	17.52	17.48							
10	256QAM	25	12	17.51	17.67	17.52		19	5				
10	256QAM	25	25	17.43	17.52	17.46							
10	256QAM	50	0	17.53	17.60	17.46							
Channel			819.5 831.5 843.5			Tune-up (dBm)	MPFS (dB)						
5	QPSK	1	0	22.47	22.64	22.57	24	0					
5	QPSK	1	12	22.36	22.47	22.48							
5	QPSK	1	24	22.50	22.57	22.49							
5	QPSK	12	0	21.37	21.51	21.46							
5	QPSK	12	7	21.40	21.47	21.45	23	1					
5	QPSK	12	14	21.34	21.48	21.41							
5	QPSK	25	0	21.45	21.61	21.44							
5	16QAM	1	0	21.63	21.68	21.68							
5	16QAM	1	12	21.52	21.65	21.54	23	1					
5	16QAM	1	24	21.47	21.65	21.48							
5	16QAM	12	0	20.37	20.53	20.31							
5	16QAM	12	7	20.59	20.59	20.51		22	2				
5	16QAM	12	14	20.46	20.53	20.42							
5	16QAM	25	0	20.46	20.53	20.42							
5	64QAM	1	0	20.57	20.68	20.59	22	2					
5	64QAM	1	12	20.44	20.54	20.46							
5	64QAM	1	24	20.37	20.48	20.35							
5	64QAM	12	0	19.57	19.69	19.41							
5	64QAM	12	7	19.51	19.63	19.53	21	3					
5	64QAM	12	14	19.56	19.59	19.41							
5	64QAM	25	0	17.49	17.67	17.54							
5	256QAM	1	0	17.45	17.48	17.47							
5	256QAM	1	12	17.58	17.48	17.47	19	5					
5	256QAM	1	24	17.45	17.53	17.45							
5	256QAM	12	0	17.54	17.69	17.51							
5	256QAM	12	7	17.47	17.58	17.47		19	5				
5	256QAM	12	14	17.47	17.52	17.46							
5	256QAM	25	0	17.46	17.62	17.46							
Channel			819.5 831.5 843.5			Tune-up (dBm)	MPFS (dB)						
3	QPSK	1	0	22.46	22.64	22.57	24	0					
3	QPSK	1	8	22.33	22.53	22.43							
3	QPSK	1	16	22.57	22.61	22.49							
3	QPSK	8	0	21.47	21.54	21.43							
3	QPSK	8	4	21.46	21.44	21.43	23	1					
3	QPSK	8	8	21.45	21.45	21.43							
3	QPSK	16	0	21.49	21.50	21.46							
3	16QAM	1	0	21.59	21.68	21.58							
3	16QAM	1	8	21.60	21.68	21.60	23	1					
3	16QAM	1	16	21.49	21.57	21.45							
3	16QAM	8	0	20.35	20.59	20.35							
3	16QAM	8	4	20.60	20.60	20.48		22	2				
3	16QAM	8	8	20.57	20.57	20.51							
3	16QAM	16	0	20.44	20.47	20.41							
3	64QAM	1	0	20.55	20.63	20.55	22	2					
3	64QAM	1	8	20.46	20.60	20.44							
3	64QAM	1	16	20.51	20.64	20.57							
3	64QAM	8	0	19.48	19.68	19.52							
3	64QAM	8	4	19.48	19.68	19.52	21	3					
3	64QAM	8	8	19.57	19.61	19.43							
3	64QAM	16	0	19.53	19.63	19.48							
3	256QAM	1	0	17.52	17.59	17.49							
3	256QAM	1	8	17.44	17.53	17.44	19	5					
3	256QAM	1	16	17.51	17.61	17.53							
3	256QAM	8	0	17.39	17.54	17.43							
3	256QAM	8	4	17.33	17.69	17.51		19	5				
3	256QAM	8	8	17.47	17.58	17.47							
3	256QAM	16	0	17.47	17.56	17.54							
Channel			26097 26098 27033			Tune-up (dBm)	MPFS (dB)						
1.4	QPSK	1	0	22.51	22.66	22.62	24	0					
1.4	QPSK	1	8	22.36	22.54	22.46							
1.4	QPSK	1	16	22.49	22.54	22.51							
1.4	QPSK	8	0	21.54	21.54	21.51							
1.4	QPSK	8	8	22.39	22.52	22.42	23	1					
1.4	QPSK	8	16	22.46	22.46	22.46							
1.4	QPSK	16	0	21.55	21.64	21.57							
1.4	16QAM	1	0	21.68	21.69	21.64							
1.4	16QAM	1	8	21.63	21.68	21.64	23	1					
1.4	16QAM	1	16	21.58	21.66	21.58							
1.4	16QAM	8	0	20.41	20.45	20.40							
1.4	16QAM	8	8	20.57	20.58	20.48		22	2				
1.4	16QAM	8	16	20.47	20.54	20.45							
1.4	16QAM	16	0	20.33	20.66	20.35							
1.4	64QAM	1	0	20.57	20.67	20.58	22	2					
1.4	64QAM	1	8	20.49	20.62	20.48							
1.4	64QAM	1	16	20.57	20.62	20.48							
1.4	64QAM	8	0	17.54	17.61	17.48							
1.4	256QAM	1	0	17.51	17.68	17.42	19	5					
1.4	256QAM	1	8	17.40	17.63	17.40							
1.4	256QAM	1	16	17.48	17.48	17.52							
1.4	256QAM	8	0	17.58	17.69	17.58		19	5				
1.4	256QAM	8	8	17.57	17.68	17.58							
1.4	256QAM	16	0	17.51	17.50	17.53							



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	17.21	17.22	17.16			
20	QPSK	1	49	17.17	17.22	17.16	18.4	0	
20	QPSK	1	99	17.05	17.14	17.03			
20	QPSK	1	0	17.23	17.22	17.12			
20	QPSK	13	0	17.13	17.22	17.14			
20	QPSK	50	0	17.10	17.22	17.11	18.4	0	
20	QPSK	100	0	17.05	17.15	17.03			
20	QPSK	150	0	17.10	17.14	17.02			
20	16QAM	1	49	17.06	17.18	17.06	18.4	0	
20	16QAM	1	99	17.11	17.20	17.13			
20	16QAM	50	0	17.07	17.20	17.16			
20	16QAM	50	24	17.02	17.12	16.99	18.4	0	
20	16QAM	50	50	17.10	17.20	17.16			
20	16QAM	100	0	17.14	17.21	17.11			
20	16QAM	1	0	17.07	17.12	17.01			
20	16QAM	1	49	17.05	17.15	17.02	18.4	0	
20	16QAM	1	99	17.07	17.20	17.16			
20	16QAM	50	0	16.99	17.10	17.05			
20	16QAM	24	24	17.04	17.14	17.01	18.4	0	
20	16QAM	50	50	17.10	17.20	17.16			
20	16QAM	100	0	17.03	17.17	17.01			
20	256QAM	1	49	15.97	15.93	15.93	17	1.4	
20	256QAM	1	99	15.98	16.11	16.04			
20	256QAM	50	50	15.99	16.07	16.02			
20	256QAM	50	24	15.81	15.94	15.85	17	1.4	
20	256QAM	50	50	15.83	15.98	15.86			
20	256QAM	100	0	15.85	16.01	15.96			
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.08	17.13	17.08			
15	QPSK	1	49	17.17	17.14	17.06	18.4	0	
15	QPSK	1	74	16.98	17.01	16.98			
15	QPSK	36	0	17.16	17.22	17.09			
15	QPSK	36	39	17.06	17.14	17.05	18.4	0	
15	QPSK	36	39	17.07	17.14	16.99			
15	QPSK	75	0	16.96	17.07	16.96			
15	16QAM	1	0	16.98	17.07	16.91			
15	16QAM	1	37	17.01	17.09	16.98	18.4	0	
15	16QAM	1	74	16.99	17.04	16.96			
15	16QAM	36	39	17.08	17.22	17.11			
15	16QAM	36	39	16.95	17.06	16.93	18.4	0	
15	16QAM	75	0	16.97	17.04	16.92			
15	16QAM	75	0	17.03	17.09	17.04			
15	64QAM	1	0	16.85	16.97	16.98			
15	64QAM	1	37	16.92	17.04	16.98	18.4	0	
15	64QAM	1	74	16.97	17.13	17.09			
15	64QAM	36	0	16.88	17.07	16.98			
15	64QAM	36	39	17.01	17.09	17.09	18.4	0	
15	64QAM	75	0	16.84	17.03	17.02			
15	256QAM	1	37	15.93	15.95	15.98	17	1.4	
15	256QAM	1	74	15.91	16.02	15.98			
15	256QAM	36	39	15.96	16.05	15.96			
15	256QAM	36	39	15.98	15.99	15.75	17	1.4	
15	256QAM	36	39	15.74	16.02	15.72			
15	256QAM	75	0	15.95	16.01	15.96			
Channel									
Frequency (MHz)									
10	QPSK	1	0	16.95	16.99	16.95			
10	QPSK	1	25	17.03	17.16	17.04	18.4	0	
10	QPSK	1	49	16.99	17.09	16.99			
10	QPSK	1	74	16.97	17.04	16.96			
10	QPSK	25	13	17.07	17.20	17.08	18.4	0	
10	QPSK	25	25	16.95	17.17	17.00			
10	QPSK	25	25	16.97	17.17	17.00			
10	16QAM	1	0	17.00	17.09	16.90			
10	16QAM	1	25	16.91	17.14	16.96	18.4	0	
10	16QAM	1	49	16.99	17.17	17.08			
10	16QAM	25	0	17.09	17.17	17.11			
10	16QAM	25	12	16.93	16.97	16.89	18.4	0	
10	16QAM	25	12	16.97	17.15	17.06			
10	16QAM	50	0	17.02	17.07	17.08			
10	64QAM	1	0	16.98	17.05	16.98			
10	64QAM	1	49	16.93	17.08	16.92	18.4	0	
10	64QAM	1	49	17.04	17.08	17.10			
10	64QAM	25	0	16.90	17.00	16.95			
10	64QAM	25	0	16.95	17.13	17.02	18.4	0	
10	64QAM	50	0	16.89	17.13	17.01			
10	256QAM	1	49	15.92	15.98	15.97	17	1.4	
10	256QAM	1	25	15.93	15.90	15.83			
10	256QAM	1	49	15.93	16.04	15.96			
10	256QAM	1	25	15.98	15.95	15.77	17	1.4	
10	256QAM	25	12	16.72	15.90	15.71			
10	256QAM	25	25	15.78	15.90	15.83	17	1.4	
10	256QAM	50	0	15.86	16.00	15.95			
Channel									
Frequency (MHz)									
3	QPSK	1	0	17.07	17.23	17.09			
3	QPSK	1	8	17.08	17.20	16.97	18.4	0	
3	QPSK	1	14	17.02	17.04	16.99			
3	QPSK	8	4	17.10	17.13	17.07			
3	QPSK	8	4	17.01	17.21	17.00	18.4	0	
3	QPSK	8	7	17.03	17.12	17.05			
3	QPSK	8	7	17.00	17.05	16.98			
3	16QAM	1	0	16.99	17.04	16.93			
3	16QAM	1	8	16.93	17.11	16.91	18.4	0	
3	16QAM	1	14	17.04	17.09	17.05			
3	16QAM	8	0	17.09	17.19	17.12			
3	16QAM	8	4	16.95	17.05	16.94	18.4	0	
3	16QAM	15	0	17.09	17.17	17.15			
3	16QAM	15	0	16.99	17.14	16.97			
3	64QAM	1	0	16.96	17.08	16.96	18.4	0	
3	64QAM	1	8	16.98	17.09	16.97			
3	64QAM	1	14	16.99	17.18	17.10			
3	64QAM	8	0	16.99	17.07	16.91	18.4	0	
3	64QAM	8	4	17.04	17.17	17.12			
3	256QAM	1	0	15.95	16.09	16.04			
3	256QAM	1	8	15.91	15.96	15.92	17	1.4	
3	256QAM	8	4	15.96	16.06	16.06			
3	256QAM	8	4	15.96	16.02	15.80	17	1.4	
3	256QAM	15	0	15.92	16.04	15.90			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	17.14	17.22	17.10			
1.4	QPSK	1	5	17.04	17.15	17.07	18.4	0	
1.4	QPSK	1	5	16.97	17.11	16.99			
1.4	QPSK	5	0	17.10	17.20	16.97			
1.4	QPSK	3	1	17.01	17.10	17.11			
1.4	QPSK	3	1	17.06	17.15	16.99	18.4	0	
1.4	16QAM	1	0	16.95	17.11	16.93			
1.4	16QAM	1	0	17.07	17.01	16.93			
1.4	16QAM	3	0	16.95	17.07	17.06	18.4	0	
1.4	16QAM	3	0	17.10	17.15	17.06			
1.4	16QAM	3	0	17.09	17.17	17.04			
1.4	16QAM	5	0	17.05	17.12	17.06	18.4	0	
1.4	16QAM	5	0	17.01	17.09	17.00			
1.4	64QAM	1	0	16.99	17.08	17.07	18.4	0	
1.4	64QAM	1	5	16.97	17.09	17.06			
1.4	64QAM	3	3	17.05	17.17	17.08			
1.4	64QAM	3	3	16.95	17.11	17.06	18.4	0	
1.4	256QAM	1	0	15.96	16.09	16.02			
1.4	256QAM	1	3	15.93	15.97	15.87	17	1.4	
1.4	256QAM	1	5	15.95	15.97	15.80			
1.4	256QAM	3	1	15.73	15.95	15.75	17	1.4	
1.4	256QAM	3	1	15.94	16.07	15.96	17	1.4	

Band 4 Ant1									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freq	Power Hsp Ch / Freq	Power Hsp Ch / Freq	Turnup time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.45	17.61	17.63			
20	QPSK	1	49	17.42	17.63	17.63	18.4	0	
20	QPSK	1	99	17.45	17.60	17.41			
20	QPSK	50	0	17.56	17.68	17.62			
20	QPSK	50	24	17.53	17.68	17.56	18.4	0	
20	QPSK	50	50	17.45	17.66	17.60			
20	QPSK	100	0	17.49	17.67	17.64			
20	16QAM	1	49	17.41	17.61	17.59	18.4	0	
20	16QAM	1	49	17.43	17.58	17.46			
20	16QAM	1	99	17.32	17.48	17.33			
20	16QAM	50	0	17.36	17.47	17.35			
20	16QAM	50	24	17.43	17.57	17.48	18.4	0	
20	16QAM	50	50	17.46	17.59	17.43			
20	16QAM	100	0	17.55					
20	16QAM	1	49	17.42	17.48	17.46	18.4	0	
20	16QAM	1	49	17.44	17.53	17.41			
20	16QAM	1	99	17.34	17.50	17.35			
20	16QAM	50	24	17.34	17.47	17.34	18.4	0	
20	16QAM	50	50	17.39	17.47	17.32			
20	256QAM	1	0	16.27	16.39	16.34			
20	256QAM	1	49	16.22	16.35	16.21	17.5	0	
20	256QAM	1	99	16.12	16.26	16.13			
20	256QAM	50	0	16.27	16.33	16.23			
20	256QAM	50	24	16.21	16.33	16.20	17.5	0	
20	256QAM	50	50	16.23	16.30	16.23			
20	256QAM	100	0	16.19	16.26	16.22			
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.175	17.215	17.475			
15	QPSK	1	30	17.36	17.47	17.43	18.4	0	
15	QPSK	1	60	17.48	17.48	17.48			
15	QPSK	1	74	17.36	17.30	17.30			
15	QPSK	36	0	17.32	17.49	17.38			
15	QPSK	36	36	17.47	17.50	17.38	18.4	0	
15	QPSK	36	99	17.33	17.40	17.40			
15	QPSK	75	0	17.43	17.48	17.43			
15	QPSK	75	36	17.38	17.43	17.43	18.4	0	
15	16QAM	1	37	17.31	17.47	17.40			
15	16QAM	1	74	17.26	17.39	17.23			
15	16QAM	36	0	17.34	17.40	17.40	18.4	0	
15	16QAM	36	20	17.31	17.44	17.41			
15	16QAM	36	99	17.37	17.38	17.30			
15	16QAM	36	39	17.48	17.39	17.39	18.4	0	
15	16QAM	1	0	17.32	17.40	17.29			
15	16QAM	1	37	17.31	17.39	17.28	18.4	0	
15	16QAM	36	0	17.33	17.40	17.39			
15	16QAM	36	39	17.39	17.36	17.39	18.4	0	
15	16QAM	36	20	17.21	17.43	17.29			
15	16QAM	36	99	17.34	17.35	17.26	18.4	0	
15	16QAM	75	0	17.33	17.42	17.24			
15	16QAM	75	36	16.06	16.10	16.02	17.5	0.9	
15	256QAM	1	39	16.06	16.10	16.02			
15	256QAM	1	74	16.05	16.21	16.04	17.5	0.9	
15	256QAM	1	99	16.07	16.22	16.05			
15	256QAM	36	20	16.15	16.12	16.09	17.5	0.9	
15	256QAM	36	99	16.11	16.19	16.17			
15	256QAM	36	30	16.11	16.19	16.17			
15	256QAM	75	0	16.02	16.22	16.04	17.5	0.9	
Channel									
Frequency (MHz)									
10	QPSK	1	0	17.15	17.21	17.43			
10	QPSK	1	24	17.41	17.50	17.43	18.4	0	
10	QPSK	1	49	17.38	17.45	17.33			
10	QPSK	1	74	17.41	17.48	17.38	18.4	0	
10	QPSK	25	12	17.41	17.46	17.43			
10	QPSK	25	26	17.30	17.47	17.43			
10	QPSK	25	49	17.53	17.53	17.43	18.4	0	
10	QPSK	25	74	17.27	17.48	17.43			
10	QPSK	1	26	17.40	17.48	17.33	18.4	0	
10	QPSK	25	0	17.43	17.43	17.33			
10	QPSK	25	49	17.22	17.39	17.29			
10	QPSK	25	12	17.34	17.53	17.34	18.4	0	
10	QPSK	25	26	17.48	17.48	17.38			
10	QPSK	50	0	17.49	17.51	17.42			
10	QPSK	1	0	17.26	17.42	17.29			
10	QPSK	1	49	17.38	17.46	17.31	18.4	0	
10	QPSK	25	0	17.37	17.44	17.31			
10	QPSK	25	49	17.27	17.42	17.29			
10	QPSK	50	0	17.33	17.42	17.28			
10	QPSK	50	26	16.29	16.29	16.29	17.5	0	
10	QPSK	1	26	16.15	16.22	16.09			
10	256QAM	1	49	16.08	16.16	16.07	17.5	0.9	
10	256QAM	1	99	16.12	16.19	16.10			
10	256QAM	25	12	16.15	16.19	16.02	17.5	0.9	
10	256QAM	25	26	16.11	16.19	16.11			
10	256QAM	25	49	16.11	16.19	16.11	17.5	0.9	
Channel									
Frequency (MHz)									
5	QPSK	1	0	17.41	17.57	17.38			
5	QPSK	1	12	17.27	17.45	17.45	18.4	0	
5	QPSK	1	24	17.38	17.43	17.27			
5	QPSK	1	49	17.48	17.48	17.38	18.4	0	
5	QPSK	12	0	17.50	17.49	17.49			
5	QPSK	12	13	17.38	17.50	17.37			
5	QPSK	12	24	17.38	17.49	17.41	18.4	0	
5	QPSK	1	0	17.31	17.46	17.31			
5	QPSK	1	12	17.38	17.54	17.33			
5	QPSK	1	24	17.27	17.37	17.23	18.4	0	
5	QPSK	12	0	17.23	17.41	17.28			
5	QPSK	12	13	17.47	17.47	17.37	18.4	0	
5	QPSK	12	13	17.33	17.46	17.30			
5	QPSK	25	0	17.43	17.51	17.41			
5	QPSK	25	13	17.43	17.43	17.33	18.4	0	
5	QPSK	1	12	17.30	17.36	17.31			
5	QPSK	1	24	17.28	17.44	17.35			
5	QPSK	1	49	17.37	17.37	17.27	18.4	0	
5	QPSK	12	13	17.35	17.43	17.32			
5	QPSK	12	13	17.28	17.41	17.29	18.4	0	
5	256QAM	1	0	16.14	16.28	16.07			
5	256QAM	1	12	16.07	16.13	16.07	17.5	0.9	
5	256QAM	1	24	16.12	16.18	16.12			
5	256QAM	12	0	16.22	16.23	16.21			
5	256QAM	12	7	16.18	16.14	16.03	17.5	0.9	
5	256QAM	12	13	16.18	16.19	16.16			
5	256QAM	25	0	16.07	16.14	16.11	17.5	0.9	
Channel									
Frequency (MHz)									
3	QPSK	1	0	17.36	17.46	17.44			
3	QPSK	1	8	17.33	17.44	17.40	18.4	0	
3	QPSK	1	16	17.38	17.44	17.38			
3	QPSK	8	0	17.47	17.50	17.40			
3	QPSK	8	8	17.49	17.50	17.39	18.4	0	
3	QPSK	16	0	17.37	17.47	17.43			
3	QPSK	16	8	17.39	17.47	17.43	18.4	0	
3	QPSK	1	14	17.25	17.34	17.21			
3	QPSK	8	0	17.26	17.44	17.20			
3	QPSK	8	8	17.37	17.48	17.41	18.4	0	
3	QPSK	16	0	17.31	17.38	17.37			
3	QPSK	16	8	17.43	17.53	17.42			
3	QPSK	1	0	17.24	17.37	17.21			
3	QPSK	1	8	17.31	17.41	17.37	18.4	0	
3	QPSK	1	14	17.35	17.45	17.32			
3	QPSK	8	0	17.25	17.35	17.25	18.4	0	
3	256QAM	1	0	16.20	16.34	16.08			
3	256QAM	1	8	16.13	16.13	16.03	17.5	0.9	
3	256QAM	1	14	15.98	16.22	16.05			
3	256QAM	8	0	16.14	16.18	16.08			
3	256QAM	8	8	16.20	16.20	16.10	17.5	0.9	
3	256QAM	8	14	16.17	16.20	16.16			
3	256QAM	15	0	16.07	16.15	16.03	17.5	0.9	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	17.107	17.215	17.643			
1.4	QPSK	1	37	17.31	17.48	17.48	18.4	0	
1.4	QPSK	1	74	17.47	17.47	17.47			
1.4	QPSK	1	37	17.38	17.37	17.38	18.4	0	
1.4	QPSK	3	0	17.40	17.48	17.30			
1.4	QPSK	3	37	17.43	17.43	17.43			
1.4	QPSK	3	74	17.31	17.45	17.29	18.4	0	
1.4	QPSK	6	0	17.42	17.47	17.46			
1.4	QPSK	6	37	17.48	17.48	17.48	18.4	0	
1.4	QPSK	3	0	17.30	17.46	17.40			
1.4	16QAM	1	37	17.25	17.32	17.26			
1.4	16QAM	3	0	17.42	17.43	17.38	18.4	0	
1.4	16QAM	3	37	17.38	17.37	17.33			
1.4	16QAM	3	74	17.25	17.38	17.33	18.4	0	
1.4	16QAM	1	0	17.28	17.37	17.33			
1.4	16QAM	1	37	17.32	17.44	17.32	18.4	0	
1.4	16QAM	3	0	17.39	17.35	17.29			
1.4	16QAM	3	37	17.30	17.21	17.21	18.4	0	
1.4	16QAM	1	0	16.12	16.26	16.08			
1.4	16QAM	1	37	16.18	16.18	16.08	17.5	0.9	
1.4	16QAM	3	0	16.10	16.21	16.02			
1.4	256QAM	3	3	16.14	16.18	16.16	17.5	0.9	

Band 2 Ant1											
BS (MHz)	Modulation	PRB Size	PRB Offset	Power (dBm)	Power (dBm) Ch. 1 / Power (dBm) Ch. 2	Power (dBm) Ch. 1 / Power (dBm) Ch. 2	Power (dBm) Ch. 1 / Power (dBm) Ch. 2	Turn-on (dBm)	MFR (dB)		
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.58	22.78	22.92					
10	QPSK	1	25	22.63	22.85	22.98				24	0
10	QPSK	1	50	22.68	22.90	23.02					
10	QPSK	25	0	21.68	21.71	21.64					
10	QPSK	25	12	21.54	21.68	21.56					
10	QPSK	25	18	21.62	21.65	21.62				23	1
10	QPSK	50	0	21.60	21.67	21.63					
10	QPSK	50	0	21.70	21.75	21.64					
10	QPSK	50	25	21.54	21.63	21.51					
10	QPSK	1	49	21.57	21.63	21.61				23	1
10	QPSK	25	0	20.63	20.70	20.66					
10	QPSK	25	12	20.68	20.73	20.69					
10	QPSK	25	25	20.68	20.78	20.72				22	2
10	QPSK	50	0	20.64	20.73	20.69					
10	QPSK	50	25	20.64	20.77	20.69					
10	QPSK	1	25	20.67	20.77	20.68				24	2
10	QPSK	1	49	20.63	20.68	20.64					
10	QPSK	25	12	20.64	20.65	20.64					
10	QPSK	25	18	19.62	19.71	19.65				21	3
10	QPSK	25	25	19.51	19.59	19.55					
10	QPSK	50	0	19.54	19.70	19.62					
10	25QAM	1	0	17.57	17.71	17.68					
10	25QAM	1	25	17.51	17.60	17.58				19	5
10	25QAM	1	50	17.54	17.60	17.62					
10	25QAM	25	0	17.56	17.69	17.64					
10	25QAM	25	12	17.59	17.74	17.62					
10	25QAM	25	18	17.62	17.74	17.67					
10	25QAM	50	0	17.66	17.71	17.66				19	5
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.47	22.70	22.65					
5	QPSK	1	12	22.40	22.58	22.51				24	0
5	QPSK	1	25	22.45	22.63	22.54					
5	QPSK	12	0	21.55	21.55	21.50					
5	QPSK	12	7	21.40	21.62	21.52					
5	QPSK	12	14	21.56	21.62	21.54					
5	QPSK	25	0	21.52	21.56	21.52					
5	QPSK	25	0	21.58	21.64	21.57					
5	QPSK	25	12	21.51	21.62	21.51				24	1
5	QPSK	25	18	21.44	21.62	21.50					
5	QPSK	12	0	20.48	20.68	20.52					
5	QPSK	12	7	20.63	20.68	20.60					
5	QPSK	12	14	20.53	20.68	20.60				22	2
5	QPSK	25	0	20.59	20.61	20.59					
5	QPSK	25	12	20.59	20.61	20.59					
5	QPSK	25	18	20.59	20.61	20.59					
5	QPSK	1	12	20.51	20.67	20.57				22	2
5	QPSK	1	24	20.52	20.63	20.50					
5	QPSK	12	7	19.50	19.57	19.50					
5	QPSK	12	14	19.48	19.51	19.44					
5	QPSK	12	0	19.49	19.50	19.47				19	5
5	QPSK	12	0	17.49	17.64	17.52					
5	25QAM	1	12	17.38	17.48	17.47					
5	25QAM	1	24	17.42	17.58	17.48					
5	25QAM	12	0	17.47	17.62	17.50					
5	25QAM	12	7	17.48	17.68	17.48				19	5
5	25QAM	12	14	17.50	17.68	17.50					
5	25QAM	25	0	17.54	17.57	17.52					
Channel											
Frequency (MHz)											
3	QPSK	1	0	22.51	22.67	22.85					
3	QPSK	1	8	22.39	22.51	22.62				24	0
3	QPSK	1	16	22.44	22.63	22.82					
3	QPSK	8	0	21.60	21.59	21.60					
3	QPSK	8	4	21.43	21.59	21.49				23	1
3	QPSK	8	7	21.31	21.62	21.50					
3	QPSK	15	0	21.54	21.55	21.51					
3	QPSK	1	0	21.62	21.67	21.54					
3	QPSK	1	8	21.60	21.67	21.54				23	1
3	QPSK	1	16	21.53	21.65	21.51					
3	QPSK	8	0	20.55	20.62	20.60					
3	QPSK	8	4	20.56	20.65	20.59					
3	QPSK	8	7	20.57	20.66	20.62					
3	QPSK	15	0	20.51	20.67	20.58					
3	QPSK	15	8	20.50	20.60	20.57					
3	QPSK	1	8	20.55	20.70	20.54				22	2
3	QPSK	1	16	20.54	20.64	20.55					
3	QPSK	8	0	19.49	19.57	19.51				21	3
3	QPSK	8	4	19.48	19.67	19.54					
3	QPSK	8	7	19.45	19.52	19.46					
3	QPSK	15	0	19.40	19.50	19.45					
3	QPSK	1	8	17.53	17.60	17.55					
3	25QAM	8	0	17.44	17.60	17.50					
3	25QAM	8	4	17.43	17.62	17.58					
3	25QAM	8	7	17.51	17.66	17.56					
3	25QAM	15	0	17.51	17.56	17.52					
3	25QAM	8	4	17.54	17.63	17.47				19	5
3	25QAM	8	7	17.54	17.67	17.54					
3	25QAM	15	0	17.60	17.59	17.57					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	22.52	22.67	22.83					
1.4	QPSK	1	3	22.41	22.53	22.53					
1.4	QPSK	1	6	22.48	22.59	22.52				24	0
1.4	QPSK	1	9	22.53	22.62	22.61					
1.4	QPSK	3	1	22.44	22.59	22.49					
1.4	QPSK	3	3	22.49	22.63	22.53					
1.4	QPSK	3	6	21.57	21.64	21.58				23	1
1.4	QPSK	1	0	21.61	21.63	21.54					
1.4	QPSK	1	3	21.45	21.54	21.39					
1.4	QPSK	1	6	21.47	21.63	21.48				23	1
1.4	QPSK	3	0	21.48	21.55	21.56					
1.4	QPSK	3	1	21.53	21.71	21.54					
1.4	QPSK	3	3	21.56	21.73	21.62					
1.4	QPSK	1	0	20.53	20.65	20.60				22	2
1.4	QPSK	1	3	20.53	20.65	20.54					
1.4	QPSK	1	6	20.54	20.65	20.64					
1.4	QPSK	1	9	20.49	20.60	20.55				22	2
1.4	QPSK	3	0	20.52	20.60	20.50					
1.4	QPSK	3	3	20.41	20.47	20.44					
1.4	QPSK	6	0	19.49	19.59	19.54				21	3
1.4	25QAM	1	6	17.46	17.57	17.56					
1.4	25QAM	3	3	17.38	17.50	17.49					
1.4	25QAM	3	6	17.51	17.67	17.51					
1.4	25QAM	3	0	17.50	17.66	17.57					
1.4	25QAM	6	0	17.53	17.70	17.55					
1.4	25QAM	6	3	17.47	17.67	17.54					
1.4	25QAM	6	0	17.63	17.57	17.51					

Band 3 Ant1									
BM (MHz)	Modulation	RB Size	RB Offset	Power P _{max} (dBm)	Power P _{max} (dBm)	Power P _{max} (dBm)	Turn-up time (s)	MFR (dB)	
Channel				23000	23000	23000			
10	QPSK	1	0	22.02	22.02				
10	QPSK	1	26	22.48	22.48		24	0	
10	QPSK	25	60	23.37	23.37				
10	QPSK	25	60	23.49	23.49				
10	QPSK	25	12	21.44	21.44		23	1	
10	QPSK	25	12	21.44	21.44				
10	QPSK	56	0	21.46	21.46				
10	QPSK	1	0	21.70	21.70				
10	QPSK	1	26	21.86	21.86		23	1	
10	QPSK	1	49	21.57	21.57				
10	QPSK	25	0	20.62	20.62				
10	QPSK	25	0	20.63	20.63				
10	QPSK	25	25	20.49	20.49		22	2	
10	QPSK	50	0	20.42	20.42				
10	QPSK	50	0	20.43	20.43				
10	QPSK	1	26	20.54	20.54		22	2	
10	QPSK	1	49	20.61	20.61				
10	QPSK	1	26	20.54	20.54				
10	QPSK	25	12	19.51	19.51		21	3	
10	QPSK	25	25	19.45	19.45				
10	QPSK	1	0	17.58	17.58				
10	QPSK	1	26	17.48	17.48		19	5	
10	QPSK	1	26	17.40	17.40				
10	QPSK	24	0	17.50	17.50				
10	QPSK	25	12	17.42	17.42		19	5	
10	QPSK	25	12	17.43	17.43				
10	QPSK	56	0	17.43	17.43				
Channel				23005	23005	23005			
5	QPSK	1	0	22.43	22.48	22.41			
5	QPSK	1	12	22.41	22.34	22.34	24	0	
5	QPSK	1	26	22.33	22.34	22.27			
5	QPSK	12	0	21.42	21.37	21.48			
5	QPSK	12	7	21.35	21.31	21.31	23	1	
5	QPSK	12	13	21.36	21.30	21.29			
5	QPSK	12	13	21.37	21.36	21.39			
5	QPSK	1	0	21.66	21.65	21.61			
5	QPSK	1	12	21.60	21.53	21.61			
5	QPSK	1	26	21.50	21.47	21.43			
5	QPSK	12	0	20.45	20.46	20.39			
5	QPSK	12	7	20.37	20.34	20.34			
5	QPSK	12	13	20.46	20.44	20.36	22	4	
5	QPSK	25	0	20.36	20.39	20.33			
5	QPSK	1	0	20.53	20.60	20.63			
5	QPSK	1	12	20.50	20.48	20.45	22	2	
5	QPSK	1	26	20.47	20.44	20.47			
5	QPSK	12	0	19.47	19.49	19.42			

Band 17 Ant1									
IM	MHz	Accession	IRB file	IRB Office	Power [dBm]	Power [dBm]	Power [dBm]	Turn-up [dBm]	MFR [dBm]
Channel					2370	2370	2380		
Frequency [MHz]					71.3				
10	SPSR	1	0		22.70	22.76	22.82		
10	SPSR	1	20		22.57	22.67	22.55	24	0
10	SPSR	1	40		22.53	22.63	22.54		
10	SPSR	25	0		21.58	21.70	21.57		
10	SPSR	25	14		21.51	21.65	21.60	23	
10	SPSR	25	28		21.53	21.67	21.63	23	19
10	SPSR	50	0		21.54	21.67	21.60		
10	ISQAM	1	0		21.76	21.84	21.77		
10	ISQAM	1	40		21.68	21.76	21.71	23	1
10	ISQAM	1	40		21.62	21.76	21.71		
10	ISQAM	25	0		20.51	20.61	20.49		
10	ISQAM	25	14		20.43	20.55	20.48	22	
10	ISQAM	25	28		20.43	20.55	20.43	22	2
10	ISQAM	50	0		20.45	20.58	20.50		
10	ISQAM	50	14		20.41	20.57	20.53	22	
10	ISQAM	50	28		20.33	20.51	20.47	22	2
10	ISQAM	1	40		20.54	20.68	20.54		
10	ISQAM	1	40		20.46	20.58	20.54		
10	ISQAM	25	12		19.45	19.57	19.32		
10	ISQAM	25	25		19.46	19.62	19.39		
10	ISQAM	25	25		19.32	19.47	19.31	19	
10	ISQAM	1	0		17.65	17.69			
10	ISQAM	1	20		17.49	17.59	17.56	19	5
10	ISQAM	1	20		17.46	17.58	17.56		
10	ISQAM	24	0		17.56	17.63	17.57		
10	ISQAM	24	12		17.52	17.67	17.44		
10	ISQAM	24	12		17.43	17.51	17.37		
10	ISQAM	24	50		17.53	17.67	17.57	19	5
Channel					2375	2375	2385		
Frequency [MHz]					71.3				
5	SPSR	1	0		22.63	22.71	22.60		
5	SPSR	1	12		22.51	22.59	22.42	24	0
5	SPSR	25	0		22.46	22.48	22.42		
5	SPSR	25	12		21.52	21.60	21.52		
5	SPSR	12	7		21.41	21.57	21.55		
5	SPSR	12	13		21.43	21.46	21.38		
5	SPSR	12	13		21.49	21.52	21.43		
5	ISQAM	1	0		21.55	21.60	21.60		
5	ISQAM	1	12		21.48	21.54	21.54		
5	ISQAM	1	24		21.51	21.58	21.65		
5	ISQAM	12	7		20.55	20.53	20.36		
5	ISQAM	12	7		20.49	20.49	20.36	22	2
5	ISQAM	25	0		20.32	20.49	20.37		
5	ISQAM	25	12		20.49	20.68	20.66		
5	ISQAM	1	12		20.49	20.51	20.43	22	2
5	ISQAM	1	24		20.51	20.61	20.43		
5	ISQAM	12	12		19.43	19.46	19.30		
5	ISQAM	12	12		19.32	19.46	19.30		
5	ISQAM	12	13		19.31	19.31	19.36	21	3
5	ISQAM	25	0		19.39	19.41	19.35		
5	ISQAM	25	12		17.62	17.60	17.62		
5	ISQAM	1	12		17.46	17.46	17.57	19	5
5	ISQAM	1	24		17.42	17.57	17.53		
5	ISQAM	12	12		17.43	17.43	17.42		
5	ISQAM	12	7		17.37	17.34	17.37	19	5
5	ISQAM	25	13		17.38	17.45	17.31		
5	ISQAM	25	13		17.23	17.23	17.23		



Band 25 Ant1										
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	17.19	17.23	17.22				
20	QPSK	1	49	17.08	17.14	17.12	18.4	0		
20	QPSK	1	99	17.05	17.01	16.97				
20	QPSK	50	0	17.11	17.10	17.16				
20	QPSK	50	24	17.11	17.07	16.98	18.4	0		
20	QPSK	50	50	17.07	17.04	17.05				
20	QPSK	100	0	17.01	17.12	16.99				
20	16QAM	100	0	17.19	17.16	17.16	17.4	1		
20	16QAM	1	49	16.99	17.19	17.06				
20	16QAM	1	99	17.05	17.15	17.13				
20	16QAM	50	0	17.12	17.19	17.02				
20	16QAM	50	24	17.13	17.12	17.09	18.4	0		
20	16QAM	50	50	17.07	17.16	17.09				
20	16QAM	100	0	17.04	17.21	17.09				
20	84QAM	1	0	17.00	17.01	17.02				
20	84QAM	1	49	17.03	17.15	17.15	18.4	0		
20	84QAM	50	0	17.03	17.06	17.02				
20	84QAM	50	24	17.05	17.13	17.06	18.4	0		
20	84QAM	100	0	17.08	17.01	16.97				
20	256QAM	1	49	15.83	15.97	15.88	17	1.4		
20	256QAM	1	99	15.85	15.79	15.89				
20	256QAM	50	0	15.83	15.89	15.87				
20	256QAM	50	24	15.73	15.91	15.89	17	1.4		
20	256QAM	50	50	15.69	15.85	15.77				
20	256QAM	100	0	15.67	15.84	15.79				
Channel										
Frequency (MHz)										
16	QPSK	1	0	16.73	17.12	16.92				
16	QPSK	1	37	17.17	17.17	16.91	18.4	0		
16	QPSK	1	74	16.81	17.05	16.86				
16	QPSK	36	0	17.00	17.09	17.05				
16	QPSK	36	25	16.96	16.99	16.93	18.4	0		
16	QPSK	36	39	17.03	16.94	17.01				
16	QPSK	75	0	16.95	17.05	17.05				
16	16QAM	1	15	17.06	17.15	17.05				
16	16QAM	1	37	16.84	16.99	16.94	17.4	1		
16	16QAM	36	0	16.85	16.96	16.93				
16	16QAM	36	20	17.00	17.04	16.98	18.4	0		
16	16QAM	36	25	16.96	16.99	16.93				
16	16QAM	75	0	16.97	17.02	16.99				
16	16QAM	1	37	16.95	17.09	16.96	18.4	0		
16	84QAM	1	0	16.96	17.11	16.95				
16	84QAM	36	0	16.92	16.93	16.95	18.4	0		
16	84QAM	36	25	16.95	16.97	16.95				
16	84QAM	75	0	16.93	16.94	16.95				
16	256QAM	1	49	15.83	15.93	15.85				
16	256QAM	1	37	15.80	15.85	15.80	17	1.4		
16	256QAM	1	74	15.86	15.72	15.85				
16	256QAM	50	0	15.86	15.85	15.84				
16	256QAM	50	24	15.67	15.87	15.80	17	1.4		
16	256QAM	36	39	15.84	15.75	15.84				
16	256QAM	75	0	15.83	15.83	15.86				
Channel										
Frequency (MHz)										
16	QPSK	1	0	16.70	17.04	16.70				
16	QPSK	1	25	16.92	17.17	17.07	18.4	0		
16	QPSK	1	49	16.92	16.93	16.87				
16	QPSK	36	0	16.92	16.95	16.90				
16	QPSK	36	25	17.02	16.99	16.90	18.4	0		
16	QPSK	36	25	16.94	17.07	16.95				
16	QPSK	75	0	16.94	17.07	17.04				
16	16QAM	1	0	16.97	16.98	16.97				
16	16QAM	1	0	17.03	17.05	17.04				
16	16QAM	1	26	16.80	16.97	16.83	17.4	1		
16	16QAM	36	0	16.96	17.04	16.94				
16	16QAM	36	49	16.96	16.97	16.94				
16	16QAM	25	0	17.05	17.13	16.94				
16	16QAM	25	12	16.98	17.14	17.05	18.4	0		
16	16QAM	36	24	16.90	16.97	16.94				
16	16QAM	50	0	16.96	17.05	17.04				
16	84QAM	1	0	16.80	17.01	16.91	18.4	0		
16	84QAM	1	24	16.82	16.93	16.85				
16	84QAM	1	49	16.83	17.01	16.80				
16	84QAM	25	0	17.01	16.93	16.99	18.4	0		
16	84QAM	25	12	17.02	17.04	17.01				
16	84QAM	25	25	16.97	17.11	16.95				
16	84QAM	50	0	16.92	17.03	16.96				
16	84QAM	50	0	16.92	17.03	16.96				
16	84QAM	50	24	16.93	17.06	16.95	18.4	0		
16	84QAM	50	24	16.93	17.06	16.95				
16	84QAM	50	50	16.90	17.01	16.97				
16	84QAM	75	0	16.94	17.00	16.99				
16	256QAM	1	49	15.75	15.83	15.75				
16	256QAM	1	26	15.76	15.82	15.73	17	1.4		
16	256QAM	1	49	15.81	15.86	15.89				
16	256QAM	25	0	15.88	15.81	15.84				
16	256QAM	25	12	15.87	15.74	15.80	17	1.4		
16	256QAM	25	25	15.81	15.72	15.75				
16	256QAM	50	0	15.87	15.85	15.91				
Channel										
Frequency (MHz)										
5	QPSK	1	0	16.74	17.10	16.74				
5	QPSK	1	12	16.94	17.08	16.96	18.4	0		
5	QPSK	1	24	16.98	16.97	16.85				
5	QPSK	12	0	17.01	17.08	17.01				
5	QPSK	12	7	16.95	17.04	16.93	18.4	0		
5	QPSK	12	13	16.93	16.86	16.97				
5	QPSK	25	0	16.93	17.17	17.03				
5	16QAM	1	0	17.06	17.05	16.98				
5	16QAM	1	12	16.90	16.99	16.95	17.4	1		
5	16QAM	1	24	17.11	17.14	17.08				
5	16QAM	12	0	17.05	17.02	16.96				
5	16QAM	12	7	17.09	17.12	16.99	18.4	0		
5	16QAM	12	13	17.05	17.04	16.98				
5	16QAM	25	0	17.01	16.98	17.03				
5	84QAM	1	0	16.88	16.89	16.81	18.4	0		
5	84QAM	1	12	17.05	16.99	17.02				
5	84QAM	1	24	17.02	16.94	16.80				
5	84QAM	12	0	16.90	16.97	16.94	18.4	0		
5	84QAM	12	7	16.94	17.08	16.85				
5	84QAM	12	13	16.97	17.11	16.96				
5	84QAM	25	0	16.79	16.95	16.99				
5	256QAM	1	49	15.79	15.85	15.85				
5	256QAM	1	12	15.77	15.87	15.81	17	1.4		
5	256QAM	1	24	15.88	15.78	15.85				
5	256QAM	12	0	15.89	15.83	15.88				
5	256QAM	12	7	15.70	15.85	15.75	17	1.4		
5	256QAM	12	13	15.49	15.81	15.74				
5	256QAM	25	0	15.85	15.85	15.86				
Channel										
Frequency (MHz)										
3	QPSK	1	0	16.84	17.16	17.01				
3	QPSK	1	8	17.02	17.15	17.01	18.4	0		
3	QPSK	1	14	17.02	17.02	16.94				
3	QPSK	8	0	17.15	17.09	17.05	18.4	0		
3	QPSK	8	4	17.08	16.89	16.82				
3	QPSK	8	7	16.94	16.90	16.90				
3	QPSK	15	0	16.98	17.08	16.92				
3	16QAM	1	0	16.98	17.09	17.08				
3	16QAM	1	8	16.83	16.92	16.94	17.4	1		
3	16QAM	1	14	16.98	17.16	17.08				
3	16QAM	8	0	17.07	17.03	16.94	18.4	0		
3	16QAM	8	4	17.01	17.04	16.89				
3	16QAM	8	7	17.05	17.15	16.98				
3	16QAM	15	0	16.92	17.19	17.02				
3	84QAM	1	0	16.81	17.00	16.81	18.4	0		
3	84QAM	1	8	16.94	17.09	16.93				
3	84QAM	1	14	16.93	16.92	16.84				
3	84QAM	8	4	16.94	17.09	16.96	18.4	0		
3	84QAM	8	7	16.96	16.99	16.87				
3	84QAM	15	0	16.97	17.06	16.92				
3	256QAM	1	0	15.70	15.83	15.69				
3	256QAM	1	8	15.70	15.83	15.81	17	1.4		
3	256QAM	1	14	15.81	15.72	15.85				
3	256QAM	8	4	15.69	15.78	15.84				
3	256QAM	8	7	15.65	15.74	15.77	17	1.4		
3	256QAM	15	0	15.86	15.84	15.86				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	16.71	17.08	16.74				
1.4	QPSK	1	8	17.03	17.16	17.00	18.4	0		
1.4	QPSK	1	14	17.03	17.03	16.95				
1.4	QPSK	1	8	16.96	16.98	16.77	18.4	0		
1.4	QPSK	1	0	17.09	17.10	17.10				
1.4	QPSK	1	8	17.05	17.05	17.05				
1.4	QPSK	1	14	17.05	17.07	17.02				
1.4	QPSK	8	0	16.98	17.17	16.96	18.4	0		
1.4	QPSK	8	4	17.02	16.99	16.94				
1.4	QPSK	8	7	17.06	17.04	16.98	17.4	1		
1.4	QPSK	15	0	17.00	17.08	17.00		</		



Band 38 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				31650	31650	31650			
20	QPSK	1	0	18.02	18.02	17.92	18.9	0	
20	QPSK	1	49	17.88	17.92	17.79			
20	QPSK	1	99	17.81	17.92	17.80			
20	QPSK	50	0	17.89	18.03	17.91			
20	QPSK	50	24	17.80	17.90	17.74	18.9	0	
20	QPSK	50	50	17.85	17.93	17.83			
20	QPSK	100	0	17.90	17.94	17.89			
20	16QAM	1	0	17.82	18.03	17.91			
20	16QAM	1	49	17.69	17.90	17.83	18.9	0	
20	16QAM	1	99	17.88	17.90	17.95			
20	16QAM	50	24	17.80	18.04	18.00			
20	16QAM	50	50	17.82	17.91	17.81			
20	16QAM	50	50	17.68	18.00	17.88	18.9	0	
20	16QAM	100	0	17.79	17.91	17.87			
20	84QAM	1	0	17.80	17.95	17.75			
20	84QAM	1	49	17.80	17.90	17.77			
20	84QAM	1	99	17.83	17.90	17.81	18	0.9	
20	84QAM	50	24	17.83	17.95	17.82			
20	84QAM	50	50	17.84	18.00	17.89			
20	84QAM	100	0	17.83	17.81	17.94			
20	256QAM	1	0	15.69	15.73	15.70	16	2.9	
20	256QAM	1	49	15.65	15.69	15.68			
20	256QAM	1	99	15.69	15.72	15.65			
20	256QAM	50	24	15.71	15.67	15.67			
20	256QAM	50	24	15.58	15.57	15.55	16	2.9	
20	256QAM	50	50	15.75	15.60	15.73			
20	256QAM	100	0	15.76	15.60	15.73			
Channel									
Frequency (MHz)				31650	31650	31675	Tune-up Int. (dBm)	MPR (dB)	
15	QPSK	1	0	17.74	17.85	17.72	18.9	0	
15	QPSK	1	37	17.74	17.78	17.72			
15	QPSK	1	74	17.68	17.83	17.68			
15	QPSK	36	0	17.80	17.89	17.86			
15	QPSK	36	20	17.67	17.83	17.71	18.9	0	
15	QPSK	36	50	17.67	17.87	17.71			
15	QPSK	75	0	17.77	17.89	17.74			
15	16QAM	1	0	17.78	17.86	17.88			
15	16QAM	1	37	17.78	17.80	17.81	18.9	0	
15	16QAM	1	74	17.77	17.88	17.80			
15	16QAM	36	0	17.78	17.87	17.86			
15	16QAM	36	20	17.78	17.87	17.82			
15	16QAM	36	50	17.83	17.91	17.77	18.9	0	
15	16QAM	75	0	17.70	17.86	17.74			
15	84QAM	1	0	17.70	17.79	17.62			
15	84QAM	1	37	17.68	17.83	17.64			
15	84QAM	1	74	17.70	17.85	17.71	18	0.9	
15	84QAM	36	0	17.82	17.77	17.80			
15	84QAM	36	20	17.76	17.88	17.71			
15	84QAM	36	50	17.80	17.88	17.80			
15	84QAM	75	0	17.80	17.96	17.82	16	2.9	
15	256QAM	1	0	15.65	15.68	15.67			
15	256QAM	1	37	15.60	15.60	15.44			
15	256QAM	1	74	15.66	15.68	15.64			
15	256QAM	36	0	15.45	15.69	15.59			
15	256QAM	36	20	15.24	15.45	15.45	16	2.9	
15	256QAM	36	50	15.71	15.78	15.71			
15	256QAM	75	0	15.58	15.74	15.66			
Channel									
Frequency (MHz)				31650	31650	31650	Tune-up Int. (dBm)	MPR (dB)	
10	QPSK	1	0	17.84	17.86	17.67	18.9	0	
10	QPSK	1	25	17.81	17.88	17.71			
10	QPSK	1	49	17.67	17.82	17.68			
10	QPSK	25	0	17.80	17.89	17.76			
10	QPSK	25	12	17.60	17.84	17.68	18.9	0	
10	QPSK	25	25	17.72	17.91	17.69			
10	QPSK	50	0	17.77	17.83	17.81			
10	16QAM	1	0	17.86	17.88	17.79			
10	16QAM	1	25	17.75	17.87	17.83	18.9	0	
10	16QAM	1	49	17.81	17.87	17.81			
10	16QAM	25	0	17.82	17.91	17.82			
10	16QAM	25	12	17.71	17.78	17.70			
10	16QAM	25	25	17.80	17.86	17.81	18.9	0	
10	16QAM	50	0	17.73	17.79	17.80			
10	84QAM	1	0	17.77	17.87	17.67			
10	84QAM	1	25	17.69	17.80	17.74			
10	84QAM	1	49	17.70	17.82	17.88	18.9	0	
10	84QAM	25	0	17.74	17.77	17.64			
10	84QAM	25	12	17.79	17.90	17.89			
10	84QAM	25	25	17.80	17.93	17.80			
10	84QAM	50	0	17.73	17.86	17.82	18	0.9	
10	256QAM	1	0	15.71	15.68	15.53			
10	256QAM	1	25	15.64	15.69	15.40			
10	256QAM	1	49	15.65	15.69	15.55			
10	256QAM	25	0	15.80	15.68	15.57			
10	256QAM	25	12	15.24	15.60	15.54	16	2.9	
10	256QAM	25	25	15.54	15.65	15.57			
10	256QAM	50	0	15.64	15.83	15.66			
Channel									
Frequency (MHz)				31775	36000	36225	Tune-up Int. (dBm)	MPR (dB)	
5	QPSK	1	0	17.83	18.01	17.86	18.9	0	
5	QPSK	1	12	17.73	17.78	17.74			
5	QPSK	1	24	17.74	17.89	17.72			
5	QPSK	12	0	17.82	17.97	17.82			
5	QPSK	12	7	17.68	17.77	17.68	18.9	0	
5	QPSK	12	13	17.77	17.83	17.69			
5	QPSK	25	0	17.88	17.86	17.75			
5	16QAM	1	0	17.86	17.97	17.87			
5	16QAM	1	12	17.79	17.88	17.80	18.9	0	
5	16QAM	1	24	17.78	17.86	17.69			
5	16QAM	12	0	17.82	17.95	17.84			
5	16QAM	12	7	17.68	17.78	17.76			
5	16QAM	12	13	17.84	17.88	17.77	18.9	0	
5	16QAM	25	0	17.76	17.85	17.80			
5	16QAM	1	0	17.71	17.79	17.67			
5	16QAM	1	12	17.79	17.78	17.87			
5	84QAM	1	0	17.76	17.79	17.84	18.9	0	
5	84QAM	1	24	17.78	17.86	17.76			
5	84QAM	12	0	17.81	17.89	17.86			
5	84QAM	12	7	17.70	17.90	17.75			
5	84QAM	12	13	17.80	17.82	17.80	18	0.9	
5	84QAM	25	0	17.76	17.86	17.83			
5	256QAM	1	0	15.53	15.61	15.51			
5	256QAM	1	12	15.38	15.57	15.47			
5	256QAM	1	24	15.61	15.60	15.43	16	2.9	
5	256QAM	12	0	15.51	15.60	15.66			
5	256QAM	12	7	15.47	15.45	15.47			
5	256QAM	12	13	15.80	15.75	15.58			
5	256QAM	25	0	15.61	15.70	15.58	16	2.9	
5	256QAM	25	12	15.47	15.45	15.47			
5	256QAM	25	25	15.75	15.68	15.58			
5	256QAM	50	0	15.61	15.70	15.58			

Band 38 HPUE Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37650	36000	36150			
20	QPSK	1	0	19.32	19.45	19.40	20.5	0	
20	QPSK	1	49	19.24	19.36	19.24	20.5	0	
20	QPSK	50	0	19.29	19.40	19.29	20.5	0	
20	QPSK	50	24	19.22	19.37	19.17	20.5	0	
20	QPSK	100	0	19.25	19.35	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	
20	QPSK	100	0	19.25	19.37	19.25	20.5	0	



Band 41 Ant1												
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power Low Hgh Ch / Freq	Power High Hgh Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel												
				39750	40188	40620	41068	41490				
Frequency (MHz)												
20	QPSK	1	0	18.05	18.10	18.15	18.03	17.98				
20	QPSK	1	40	17.98	18.05	18.14	17.96	18.02	18.0		0	
20	QPSK	1	80	17.98	18.06	18.10	17.98	18.07				
20	QPSK	50	0	17.94	17.97	18.12	18.03	18.02				
20	QPSK	50	24	17.89	17.88	18.02	17.94	17.86			18.0	
20	QPSK	50	48	17.95	17.95	18.05	18.02	18.02				
20	QPSK	100	0	17.91	17.90	18.05	17.87	17.90				
20	16QAM	1	0	17.89	17.93	17.98	17.80	17.83				
20	16QAM	1	40	17.89	17.91	18.00	17.82	17.87	18.0		0	
20	16QAM	1	80	17.89	17.94	18.05	17.92	18.09				
20	16QAM	50	0	18.04	18.04	18.06	18.03	17.96				
20	16QAM	50	24	17.92	17.93	18.04	17.97	17.88				
20	16QAM	50	50	17.90	18.00	18.07	18.01	17.93			18.0	
20	16QAM	100	0	17.92	17.92	18.00	17.82	17.82				
20	16QAM	100	0	17.95	17.95	17.99	17.84	17.87				
20	16QAM	1	40	18.06	18.01	18.13	18.06	18.02			18.0	
20	16QAM	1	80	17.93	17.96	18.11	18.07	18.03				
20	16QAM	50	0	18.03	18.07	18.10	18.01	18.07				
20	16QAM	50	24	17.93	17.95	18.11	17.98	17.99			18.0	
20	16QAM	50	50	17.99	17.97	18.14	17.96	18.04				
20	16QAM	100	0	17.88	17.93	18.02	17.89	17.84				
20	256QAM	1	0	18.46	18.54	18.67	18.58	18.51				
20	256QAM	1	40	18.55	18.60	18.71	18.59	18.56			18.0	
20	256QAM	1	80	18.46	18.48	18.62	18.48	18.47				
20	256QAM	50	0	18.47	18.57	18.67	18.47	18.46				
20	256QAM	50	24	18.38	18.45	18.54	18.48	18.40			18.0	
20	256QAM	50	50	18.49	18.57	18.66	18.51	18.54				
20	256QAM	100	0	18.48	18.47	18.73	18.64	18.53				
Channel												
				39750	40173	40620	41066	41615		Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)												
15	QPSK	1	0	17.95	18.03	18.04	17.74	17.87				
15	QPSK	1	37	17.89	17.94	18.06	17.91	17.88			18.0	
15	QPSK	1	74	17.87	17.98	18.00	17.82	18.04				
15	QPSK	36	0	17.84	17.91	17.98	17.82	17.85				
15	QPSK	36	20	17.77	17.76	17.93	17.89	17.72			18.0	
15	QPSK	36	40	17.89	17.87	17.95	17.82	17.85				
15	QPSK	75	0	17.85	17.87	17.95	17.82	17.78				
15	16QAM	1	0	17.81	17.80	17.87	17.72	17.76				
15	16QAM	1	37	17.89	17.91	18.05	17.82	17.89			18.0	
15	16QAM	1	74	17.88	17.84	17.91	17.79	17.87				
15	16QAM	36	0	17.87	17.86	18.00	18.00	17.89				
15	16QAM	36	20	17.83	17.86	18.00	17.78	17.85			18.0	
15	16QAM	36	39	17.84	17.91	17.93	17.86	17.87				
15	16QAM	75	0	17.87	17.78	18.06	17.96	17.83				
15	16QAM	1	0	17.80	17.79	17.87	17.77	17.80				
15	16QAM	1	37	17.88	17.93	18.07	17.98	17.91			18.0	
15	16QAM	1	74	17.84	17.87	18.04	17.97	18.06				
15	16QAM	36	0	17.83	18.03	18.02	17.93	17.85				
15	16QAM	36	20	17.85	17.85	17.97	17.85	17.88			18.0	
15	16QAM	36	39	17.86	17.98	17.98	17.86	17.86				
15	16QAM	75	0	17.74	17.82	17.98	17.75	17.87				
15	256QAM	1	0	18.40	18.42	18.59	18.49	18.44				
15	256QAM	1	40	18.51	18.46	18.54	18.51	18.45			18.0	
15	256QAM	1	74	18.34	18.42	18.58	18.34	18.42				
15	256QAM	36	0	18.20	18.36	18.53	18.40	18.22				
15	256QAM	36	20	18.32	18.31	18.44	18.41	18.25			18.0	
15	256QAM	36	39	18.34	18.49	18.55	18.52	18.45				
15	256QAM	75	0	18.36	18.50	18.58	18.53	18.50				
Channel												
				39750	40160	40620	41068	41640		Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)												
10	QPSK	1	0	17.91	18.01	18.03	17.98	17.83				
10	QPSK	1	25	17.84	17.92	18.01	17.88	17.96			18.90	
10	QPSK	1	49	17.82	17.96	18.01	17.79	18.05				
10	QPSK	25	0	17.85	17.91	18.05	17.83	17.95				
10	QPSK	25	12	17.75	17.80	17.91	17.81	17.81			18.9	
10	QPSK	25	25	17.83	17.95	18.03	17.91	17.89				
10	QPSK	50	0	17.75	17.87	17.89	17.73	17.77				
10	16QAM	1	0	17.79	17.86	17.89	17.75	17.72				
10	16QAM	1	25	17.80	17.80	18.03	17.90	18.00			18.9	
10	16QAM	1	49	17.88	17.86	17.96	17.80	17.87				
10	16QAM	25	0	17.83	17.95	17.97	17.99	17.86				
10	16QAM	25	12	17.87	17.83	17.84	17.73	17.83			18.9	
10	16QAM	25	25	17.75	17.84	18.01	17.80	17.82				
10	16QAM	50	0	17.80	17.87	17.85	17.67	17.62				
10	16QAM	1	0	17.78	17.76	17.85	17.70	17.81				
10	16QAM	1	25	17.82	17.97	18.06	17.91	17.88			18.9	
10	16QAM	1	49	17.81	17.93	18.04	18.03	18.05				
10	16QAM	25	0	17.82	18.01	18.01	17.89	17.80				
10	16QAM	25	12	17.89	17.85	17.88	17.90	17.82			18.9	
10	16QAM	25	25	17.86	17.88	18.10	17.82	17.85				
10	16QAM	50	0	17.82	17.88	17.88	17.81	17.83				
10	256QAM	1	0	18.39	18.40	18.56	18.52	18.43				
10	256QAM	1	25	18.47	18.50	18.64	18.52	18.51			18.0	
10	256QAM	1	49	18.38	18.34	18.48	18.36	18.40				
10	256QAM	25	0	18.25	18.44	18.52	18.38	18.21				
10	256QAM	25	12	18.32	18.39	18.42	18.37	18.30			18.0	
10	256QAM	25	25	18.35	18.42	18.57	18.52	18.48				
10	256QAM	50	0	18.33	18.58	18.63	18.61	18.42				
Channel												
				39675	40140	40620	41060	41660		Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)												
5	QPSK	1	0	17.91	18.01	18.03	17.98	17.83				
5	QPSK	1	12	17.85	17.91	18.01	17.88	17.89			18.90	
5	QPSK	1	24	17.96	17.98	17.99	17.84	17.88				
5	QPSK	12	0	17.82	17.87	18.00	17.86	17.97				
5	QPSK	12	7	17.84	17.81	17.98	17.87	17.76			18.9	
5	QPSK	12	13	17.97	17.87	17.96	17.97	17.85				
5	QPSK	25	0	17.81	17.77	17.91	17.74	17.79				
5	16QAM	1	0	17.84	17.85	17.86	17.89	17.76				
5	16QAM	1	12	17.82	17.89	18.03	17.87	17.82			18.9	
5	16QAM	1	24	17.84	17.83	17.93	17.86	17.85				
5	16QAM	12	0	17.86	17.92	17.93	17.97	17.87			18.9	
5	16QAM	12	7	17.88	17.87	18.01	17.73	17.83				
5	16QAM	12	13	17.85	17.87	17.94	17.90	17.80				
5	16QAM	25	0	17.86	17.85	18.04	18.03	17.88				
5	16QAM	1	0	17.80	17.80	17.80	17.74	17.81			18.9	
5	16QAM	1	12	18.03	17.96	18.00	17.92	17.86				
5	16QAM	1	24	17.78	17.93	17.98	17.98	17.96				
5	16QAM	12	0	17.86	17.96	17.88	17.87	18.03				
5	16QAM	12	7	17.79	17.90	17.89	17.85	17.85			18.9	
5	16QAM	12	13	17.85	17.90	18.07	17.82	17.91			18.9	
5	16QAM	25	0	17.93	17.95	17.95	17.83	17.84				
5	256QAM	1	0	18.38	18.41	18.56	18.55	18.45				
5	256QAM	1	12	18.50	18.56	18.63	18.55	18.49			18.0	
5	256QAM	1	24	18.44	18.35	18.48	18.41	18.43				
5	256QAM	12	0	18.42	18.44	18.58	18.42	18.22				
5	256QAM	12	7	18.27	18.37	18.45	18.41	18.37				
5	256QAM	12	13	18.42	18.53	18.62	18.55	18.47				
5	256QAM	25	0	18.38	18.52	18.60	18.52	18.45				

Band 2 Ant2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turnup time (sec)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	22.58	22.70	22.65	24	0						
20	QPSK	1	49	22.48	22.60	22.55								
20	QPSK	1	99	22.50	22.64	22.57								
20	QPSK	50	0	21.61	21.76	21.62								
20	QPSK	50	24	21.64	21.71	21.67	23	1						
20	QPSK	50	50	21.47	21.62	21.50								
20	QPSK	100	0	21.52	21.67	21.59								
20	16QAM	50	0	21.70	21.79	21.75								
20	16QAM	1	49	21.62	21.76	21.71	23	1						
20	16QAM	1	99	21.77	21.82	21.78								
20	16QAM	50	0	20.51	20.60	20.59								
20	16QAM	50	24	20.58	20.67	20.59								
20	16QAM	50	50	20.57	20.72	20.66	22	2						
20	16QAM	100	0	20.54	20.69	20.59								
20	16QAM	1	0	20.59	20.74	20.67								
20	16QAM	1	49	20.77	20.90	20.89								
20	16QAM	50	0	19.51	19.75	19.63	22	2						
20	16QAM	50	0	19.54	19.69	19.59								
20	16QAM	50	24	19.59	19.65	19.52								
20	16QAM	50	50	19.64	19.75	19.62								
20	16QAM	100	0	19.53	19.63	19.58	21	3						
20	16QAM	1	0	19.70	19.79	19.75								
20	256QAM	1	49	17.66	17.75	17.67								
20	256QAM	1	99	17.60	17.64	17.62								
20	256QAM	50	0	17.60	17.64	17.62	19	5						
20	256QAM	50	24	17.54	17.61	17.49								
20	256QAM	50	50	17.65	17.71	17.61								
20	256QAM	100	0	17.54	17.69	17.61								
Channel														
Frequency (MHz)														
16	QPSK	1	0	22.44	22.66	22.61	24	0						
16	QPSK	1	74	22.41	22.48	22.47								
16	QPSK	1	74	22.47	22.67	22.43								
16	QPSK	36	0	21.53	21.67	21.51								
16	QPSK	36	20	21.57	21.66	21.62	23	1						
16	QPSK	36	36	21.35	21.58	21.43								
16	QPSK	75	0	21.49	21.68	21.55								
16	16QAM	1	0	21.61	21.68	21.60								
16	16QAM	1	37	21.59	21.62	21.61	23	1						
16	16QAM	1	74	21.61	21.73	21.68								
16	16QAM	36	0	20.38	20.57	20.38								
16	16QAM	36	20	20.50	20.62	20.59								
16	16QAM	36	20	20.58	20.73	20.65	22	2						
16	16QAM	75	0	20.52	20.58	20.53								
16	16QAM	75	0	20.48	20.60	20.50								
16	16QAM	1	37	20.54	20.70	20.62								
16	16QAM	1	74	20.50	20.62	20.59	21	3						
16	16QAM	36	0	19.48	19.61	19.51								
16	16QAM	36	20	19.44	19.58	19.47								
16	16QAM	36	36	19.49	19.55	19.51								
16	16QAM	75	0	19.39	19.59	19.47	19	5						
16	256QAM	1	0	17.50	17.61	17.55								
16	256QAM	1	37	17.69	17.70	17.72								
16	256QAM	1	74	17.60	17.68	17.58								
16	256QAM	36	0	17.51	17.66	17.58	19	5						
16	256QAM	36	20	17.59	17.50	17.42								
16	256QAM	36	36	17.52	17.66	17.55								
16	256QAM	75	0	17.48	17.69	17.63								
Channel														
Frequency (MHz)														
16	QPSK	1	0	22.40	22.63	22.61	24	0						
16	QPSK	1	25	22.37	22.52	22.45								
16	QPSK	1	49	22.41	22.53	22.53								
16	QPSK	36	0	21.56	21.66	21.57								
16	QPSK	25	12	21.56	21.57	21.54	23	1						
16	QPSK	25	25	21.36	21.47	21.40								
16	QPSK	50	0	21.62	21.68	21.64								
16	16QAM	1	0	21.62	21.67	21.52								
16	16QAM	1	26	21.53	21.64	21.61	23	1						
16	16QAM	1	69	21.60	21.69	21.64								
16	16QAM	25	0	20.37	20.57	20.39								
16	16QAM	25	12	20.43	20.62	20.49								
16	16QAM	36	0	20.50	20.63	20.57	22	2						
16	16QAM	36	12	20.60	20.70	20.67								
16	16QAM	50	0	20.55	20.57	20.59								
16	16QAM	1	0	20.51	20.62	20.53								
16	16QAM	1	49	20.48	20.64	20.57	22	2						
16	16QAM	25	0	19.46	19.54	19.50								
16	16QAM	25	12	19.42	19.54	19.48								
16	16QAM	25	25	19.53	19.70	19.55								
16	16QAM	50	0	19.49	19.54	19.50	21	3						
16	256QAM	1	0	17.55	17.68	17.59								
16	256QAM	1	26	17.69	17.67	17.66								
16	256QAM	1	49	17.60	17.70	17.54								
16	256QAM	25	0	17.46	17.51	17.50	19	5						
16	256QAM	25	12	17.45	17.50	17.57								
16	256QAM	25	25	17.52	17.61	17.53								
16	256QAM	50	0	17.43	17.48	17.38								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.40	22.63	22.61	24	0						
5	QPSK	1	12	22.42	22.52	22.49								
5	QPSK	1	24	22.42	22.52	22.54								
5	QPSK	12	0	21.52	21.73	21.60								
5	QPSK	12	7	21.56	21.57	21.52	23	1						
5	QPSK	12	13	21.39	21.50	21.44								
5	QPSK	26	0	21.43	21.58	21.46								
5	16QAM	1	0	21.62	21.65	21.54								
5	16QAM	1	12	21.58	21.62	21.66	23	1						
5	16QAM	1	24	21.65	21.70	21.67								
5	16QAM	12	0	20.41	20.52	20.38								
5	16QAM	12	7	20.47	20.60	20.45								
5	16QAM	12	13	20.44	20.58	20.50	22	2						
5	16QAM	25	0	20.59	20.66	20.58								
5	16QAM	1	0	20.48	20.56	20.52								
5	16QAM	1	12	20.54	20.71	20.62								
5	16QAM	1	24	20.51	20.58	20.54	22	2						
5	16QAM	12	0	19.39	19.63	19.55								
5	16QAM	12	7	19.45	19.55	19.43								
5	16QAM	12	13	19.50	19.63	19.59								
5	16QAM	25	0	19.49	19.67	19.50	21	3						
5	256QAM	1	0	17.47	17.60	17.58								
5	256QAM	1	12	17.68	17.77	17.71								
5	256QAM	1	24	17.56	17.66	17.63								
5	256QAM	12	0	17.48	17.59	17.53	19	5						
5	256QAM	12	0	17.48	17.59	17.53								
5	256QAM	12	13	17.50	17.47	17.41								
5	256QAM	12	25	17.48	17.51	17.44								
5	256QAM	25	0	17.49	17.50	17.47	19	5						
5	256QAM	25	0	17.49	17.50	17.47								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.40	22.63	22.61	24	0						
3	QPSK	1	8	22.42	22.57	22.44								
3	QPSK	1	24	22.42	22.52	22.45								
3	QPSK	12	0	21.52	21.73	21.60								
3	QPSK	8	4	21.51	21.66	21.51	23	1						
3	QPSK	8	4	21.52	21.61	21.58								
3	QPSK	15	0	21.49	21.53	21.48								
3	QPSK	15	0	21.39	21.63	21.47								
3	16QAM	1	0	21.62	21.72	21.62	23	1						
3	16QAM	1	8	21.54	21.64	21.61								
3	16QAM	15	0	20.47	20.78	20.72								
3	16QAM	1	0	20.61	20.53	20.49								
3	16QAM	15	0	20.45	20.57	20.52	22	2						
3	16QAM	8	7	20.43	20.63	20.57								
3	16QAM	15	0	20.60	20.69	20.67								
3	16QAM	15	0	20.48	20.58	20.54								
3	16QAM	8	8	20.63	20.68	20.64	22	2						
3	16QAM	8	14	20.53	20.64	20.59								
3	16QAM	8	14	20.50	20.64	20.55								
3	16QAM	8	14	20.49	20.64	20.55								
3	16QAM	8	4	19.48	19.52	19.46	21	3						
3	16QAM	8	14	19.53	19.63	19.53								
3	16QAM	15	0	19.42	19.50	19.57								
3	256QAM	1	0	17.55	17.65	17.54								
3	256QAM	1	14	17.61	17.76	17.73	19	5						
3	256QAM	1	14	17.58	17.65	17.62								
3	256QAM	8	7	17.59	17.57	17.44								
3	256QAM	8	7	17.52	17.59	17.47								
3	256QAM	15	0	17.40	17.46	17.35	19	5						
3	256QAM	15	0	17.40	17.46	17.35								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.43	22.64	22.52	24	0						
1.4	QPSK	1	8	22.42	22.57	22.44								
1.4	QPSK	1	24	22.42	22.52	22.45								
1.4	QPSK	12	0	21.52	21.73	21.60								
1.4	QPSK	8	4	21.51	21.66	21.51	23	1						
1.4	QPSK	8	4	21.52	21.61	21.58								
1.4	QPSK	15	0	21.49	21.53	21.48								
1.4	QPSK	15	0	21.39	21.63	21.47								
1.4	16QAM	1	0	21.62	21.72	21.62	23	1						
1.4	16QAM	1	8	21.54	21.64	21.61								
1.4	16QAM	15	0	20.47	20.78	20.72								
1.4	16QAM	1	0	20.61	20.53	20.49								
1.4	16QAM	15	0	20.45	20.57	20.52	22	2						
1.4	16QAM	8	7	20.43	20.63	20.57								
1.4	16QAM	15	0	20.60	20.69	20.67								
1.4	16QAM	15	0	20.48	20.58	20.54								
1.4	16QAM	8	8	20.63	20.68	20.64	22	2						
1.4	16QAM	8	14	20.53	20.64	20.59								
1.4	16QAM	8	14	20.50	20.64	20.55								
1.4	16QAM	8	14	20.49	20.64	20.55								
1.4	16QAM	8	4	19.48	19.52	19.46	21	3						
1.4	16QAM	8	14	19.53	19.63	19.53								
1.4	16QAM	15	0	19.42	19.50	19.57								
1.4	256QAM	1	0	17.55	17.65	17.54								
1.4	256QAM	1	14	17.61	17.76	17.73	19	5						
1.4	256QAM	1	14	17.58										

Band 25 Ant2														
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq. (dBm)	Power Middle Ch./Freq. (dBm)	Power High Ch./Freq. (dBm)	Turn-up (dB)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	22.56	22.72	22.83	24	0						
20	QPSK	1	49	22.54	22.68	22.67								
20	QPSK	1	99	22.52	22.69	22.87								
20	QPSK	50	0	21.68	21.75	21.70								
20	QPSK	50	24	21.67	21.64	21.63	23	1						
20	QPSK	50	50	21.63	21.71	21.83								
20	QPSK	100	0	21.50	21.63	21.55								
20	16QAM	1	0	21.62	21.73	21.79								
20	16QAM	1	49	21.56	21.70	21.85	23	1						
20	16QAM	1	99	21.55	21.64	21.67								
20	16QAM	50	0	20.62	20.69	20.65								
20	16QAM	50	24	20.50	20.53	20.50								
20	16QAM	50	50	20.67	20.71	20.66	22	2						
20	16QAM	100	0	20.59	20.70	20.63								
20	64QAM	1	0	20.65	20.70	20.63								
20	64QAM	1	49	20.63	20.77	20.72								
20	64QAM	1	99	20.57	20.62	20.54	22	2						
20	64QAM	50	0	19.53	19.63	19.51								
20	64QAM	50	24	19.59	19.69	19.56								
20	64QAM	50	50	19.51	19.54	19.55								
20	64QAM	100	0	19.57	19.77	17.62	19	5						
20	256QAM	1	0	17.64	17.77	17.62								
20	256QAM	1	49	17.58	17.62	17.53								
20	256QAM	1	99	17.65	17.74	17.67								
20	256QAM	50	0	17.56	17.64	17.61								
20	256QAM	50	24	17.56	17.68	17.58								
20	256QAM	50	50	17.67	17.73	17.64								
20	256QAM	100	0	17.66	17.69	17.71	19	5						
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.43	22.62	22.58					24	0		
15	QPSK	1	37	22.45	22.61	22.48								
15	QPSK	1	74	22.47	22.60	22.34								
15	QPSK	36	0	21.83	21.87	21.58								
15	QPSK	36	36	21.51	21.59	21.60	23	1						
15	QPSK	36	39	21.43	21.57	21.42								
15	QPSK	75	0	21.48	21.60	21.51								
15	16QAM	1	0	21.48	21.60	21.51								
15	16QAM	1	37	21.46	21.65	21.59	23	1						
15	16QAM	1	74	21.47	21.57	21.41								
15	16QAM	36	0	20.54	20.62	20.60								
15	16QAM	36	20	20.48	20.57	20.39								
15	16QAM	50	0	20.48	20.55	20.57	22	2						
15	16QAM	50	24	20.48	20.55	20.57								
15	64QAM	1	0	20.57	20.57	20.58								
15	64QAM	1	37	20.60	20.62	20.64								
15	64QAM	1	74	20.47	20.52	20.40	22	2						
15	64QAM	36	0	19.46	19.53	19.43								
15	64QAM	36	36	19.50	19.56	19.45								
15	64QAM	36	39	19.55	19.55	19.52								
15	64QAM	75	0	19.54	19.58	19.57	21	3						
15	256QAM	1	0	17.53	17.65	17.54								
15	256QAM	1	37	17.49	17.54	17.41								
15	256QAM	1	74	17.53	17.66	17.63								
15	256QAM	36	0	17.65	17.62	17.42	19	5						
15	256QAM	36	20	17.47	17.53	17.48								
15	256QAM	36	39	17.57	17.59	17.59								
15	256QAM	75	0	17.41	17.48	17.35								
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.59	22.62	22.62	24	0						
10	QPSK	1	25	22.42	22.57	22.50								
10	QPSK	1	49	22.38	22.51	22.34								
10	QPSK	25	0	21.53	21.67	21.58								
10	QPSK	25	12	21.42	21.58	21.44	23	1						
10	QPSK	25	25	21.59	21.66	21.60								
10	QPSK	25	39	21.39	21.61	21.48								
10	16QAM	1	0	21.58	21.60	21.62								
10	16QAM	1	25	21.47	21.65	21.51	23	1						
10	16QAM	1	50	21.50	21.63	21.63								
10	16QAM	25	0	20.48	20.57	20.39								
10	16QAM	25	12	20.54	20.58	20.38								
10	16QAM	36	0	20.56	20.58	20.44	22	2						
10	16QAM	36	20	20.50	20.54	20.58								
10	64QAM	1	0	20.58	20.63	20.52								
10	64QAM	1	25	20.54	20.58	20.58								
10	64QAM	1	49	20.52	20.49	20.48	22	2						
10	64QAM	25	0	19.45	19.55	19.42								
10	64QAM	25	12	19.55	19.55	19.47								
10	64QAM	25	25	19.54	19.63	19.55								
10	64QAM	50	0	19.51	19.56	19.46	21	3						
10	256QAM	1	0	17.58	17.72	17.55								
10	256QAM	1	25	17.48	17.48	17.41								
10	256QAM	1	49	17.56	17.62	17.52								
10	256QAM	25	0	17.44	17.58	17.38	19	5						
10	256QAM	25	12	17.49	17.59	17.36								
10	256QAM	25	25	17.64	17.60	17.59								
10	256QAM	50	0	17.58	17.62	17.51								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.47	22.52	22.44	24	0						
5	QPSK	1	12	22.46	22.52	22.44								
5	QPSK	1	24	22.37	22.55	22.36								
5	QPSK	12	0	21.54	21.71	21.62								
5	QPSK	12	7	21.44	21.60	21.37	23	1						
5	QPSK	12	13	21.57	21.62	21.59								
5	QPSK	25	0	21.48	21.53	21.47								
5	16QAM	1	0	21.50	21.68	21.59								
5	16QAM	1	12	21.45	21.58	21.59	23	1						
5	16QAM	1	24	21.43	21.45	21.11								
5	16QAM	12	0	20.57	20.59	20.53								
5	16QAM	12	7	20.53	20.53	20.39								
5	16QAM	12	13	20.56	20.52	20.45	22	2						
5	16QAM	25	0	20.48	20.56	20.38								
5	64QAM	1	0	20.54	20.57	20.50								
5	64QAM	1	12	20.56	20.70	20.58								
5	64QAM	1	24	20.46	20.47	20.47	22	2						
5	64QAM	12	0	19.39	19.53	19.41								
5	64QAM	12	7	19.54	19.55	19.48								
5	64QAM	12	13	19.57	19.59	19.62								
5	64QAM	25	0	19.52	19.59	19.56	21	3						
5	256QAM	1	0	17.53	17.67	17.56								
5	256QAM	1	12	17.54	17.53	17.39								
5	256QAM	1	24	17.60	17.70	17.62								
5	256QAM	12	0	17.48	17.53	17.43	19	5						
5	256QAM	12	7	17.41	17.62	17.49								
5	256QAM	12	13	17.58	17.65	17.59								
5	256QAM	25	0	17.63	17.66	17.53	19	5						
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.51	22.69	22.53					24	0		
3	QPSK	1	12	22.44	22.65	22.44								
3	QPSK	1	14	22.39	22.47	22.43								
3	QPSK	8	0	21.59	21.67	21.57								
3	QPSK	8	7	21.51	21.61	21.52	23	1						
3	QPSK	8	7	21.58	21.68	21.58								
3	QPSK	16	0	21.48	21.55	21.58								
3	16QAM	1	0	21.48	21.68	21.62								
3	16QAM	1	8	21.45	21.61	21.57	23	1						
3	16QAM	1	14	21.42	21.57	21.53								
3	16QAM	8	0	20.50	20.52	20.50								
3	16QAM	8	4	20.50	20.58	20.46								
3	16QAM	8	7	20.53	20.56	20.50	22	2						
3	16QAM	8	7	20.54	20.64	20.51								
3	64QAM	1	0	20.51	20.64	20.51								
3	64QAM	1	8	20.50	20.72	20.59								
3	64QAM	8	0	19.47	19.60	19.47	22	2						
3	64QAM	8	4	19.47	19.60	19.39								
3	64QAM	8	7	19.47	19.59	19.41								
3	64QAM	16	0	19.42	19.62	19.51								
3	64QAM	1	0	17.52	17.68	17.58	21	3						
3	64QAM	1	8	17.52	17.68	17.48								
3	64QAM	1	14	17.53	17.73	17.65								
3	64QAM	1	14	17.60	17.77	17.68								
3	256QAM	1	0	17.51	17.69	17.53	19	5						
3	256QAM	8	4	17.51	17.69	17.53								
3	256QAM	8	7	17.61	17.64	17.51								
3	256QAM	16	0	17.50	17.62	17.51								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.41	22.59	22.33	24	0						
1.4	QPSK	1	0	22.44	22.58	22.24								
1.4	QPSK	1	8	22.47	22.55	22.23								
1.4	QPSK	1	8	22.46	22.56	22.23								
1.4	QPSK	3	0	22.42	22.49	22.24	23	1						
1.4	QPSK	3	3	22.37	22.58	22.20								
1.4	QPSK	3	3	22.40	22.59	22.20								
1.4	16QAM	1	0	21.49	21.65	21.57								
1.4	16QAM	1	3	21.42	21.60	21.58	23	1						
1.4	16QAM	1	3	21.50	21.65	21.53								
1.4	16QAM	3	0	21.52	21.59	21.51								
1.4	16QAM	3	1	21.62	21.65	21.64								
1.4	16QAM	6	0	20.55	20.61	20.57	22	2						
1.4	16QAM	6	1	20.55	20.59	20.52								
1.4	16QAM	6	1	20.74	20.75	20.45								
1.4	16QAM	6	1	20.50	20.47	20.21								
1.4	16QAM	3	0	20.39	20.54	20.44	22	2						
1.4	16QAM	3	0	20.39	20.54	20.44								
1.4	16QAM	3	0	20.57	20.71	20.54								
1.4	16QAM	3	0	19.50	19.66	19.41								
1.4	16QAM	3	1	17.45	17.55	17.47	19	5						
1.4	16QAM	3	1	17.45	17.55	17.47								
1.4	16QAM	3	1	17.53	17.52	17.50								
1.4	16QAM	3	1	17.55	17.66	17.61								
1.4	16QAM	3	1	17.45	17.55	17.47								
1.4	16QAM	3	1	17.46	17.65	17.44								

Band 41 Ant0												
RW [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 limit (dBm)	MPR (dB)	
Channel												
				39750	40188	40620	41058	41490	41922			
				22.12	22.24	22.36	22.27	22.22	22.22			
20	QPSK	1	0	22.12	22.24	22.36	22.27	22.22	22.22	23	0	
20	QPSK	1	40	22.03	21.87	22.01	21.98	22.00	21.98			
20	QPSK	1	80	22.02	21.86	22.10	22.06	22.12	22.10			
20	QPSK	50	0	21.08	21.11	21.25	21.10	21.22	21.22			
20	QPSK	50	24	21.01	20.97	21.01	20.96	21.02	21.02	22	1	
20	QPSK	50	48	20.90	21.03	20.86	20.94	21.02	21.02			
20	QPSK	100	0	20.92	20.99	21.05	21.00	21.04	21.04			
20	16QAM	1	0	21.00	20.96	21.09	21.06	21.04	21.04	22	1	
20	16QAM	1	40	20.92	20.86	20.94	20.90	20.91	20.91			
20	16QAM	1	80	20.92	20.78	20.89	20.77	20.89	20.89			
20	16QAM	50	0	19.96	19.87	20.08	19.86	19.91	19.91			
20	16QAM	50	24	20.02	20.00	20.12	20.00	20.04	20.04	21	2	
20	16QAM	50	50	19.93	19.89	19.95	19.89	19.89	19.89			
20	16QAM	100	0	20.02	20.04	20.14	19.96	20.02	20.02			
20	16QAM	100	1	20.15	20.15	20.26	20.15	20.14	20.14			
20	16QAM	1	40	20.04	19.99	20.12	20.01	19.95	19.95	21	2	
20	16QAM	1	80	20.11	20.05	20.20	20.15	20.15	20.15			
20	16QAM	50	0	19.95	19.94	19.97	19.96	19.93	19.93			
20	16QAM	50	24	19.93	19.86	19.91	19.76	19.81	19.81	20	3	
20	16QAM	50	50	19.90	19.80	19.92	19.84	19.84	19.84			
20	16QAM	100	0	19.93	19.91	19.10	19.00	19.02	19.02			
20	256QAM	1	0	17.04	17.00	17.10	17.05	17.00	17.00			
20	256QAM	1	40	16.91	16.86	16.94	16.91	16.91	16.91	18	5	
20	256QAM	1	80	17.05	16.99	17.11	16.99	16.98	16.98			
20	256QAM	50	0	16.94	16.90	16.99	16.96	16.96	16.96			
20	256QAM	50	24	16.90	16.75	16.94	16.81	16.78	16.78	18	5	
20	256QAM	50	50	16.75	16.77	16.84	16.73	16.75	16.75			
20	256QAM	100	0	16.93	16.90	17.04	17.00	17.00	17.00			
Channel												
				39755	40173	40620	41058	41515	41915			
				22.11	22.29	22.30	22.27	22.22	22.22			
16	QPSK	1	0	22.11	22.29	22.30	22.27	22.22	22.22	23	0	
16	QPSK	1	37	21.87	21.91	21.95	21.89	21.94	21.94			
16	QPSK	1	74	21.96	21.94	22.04	22.00	22.09	22.09			
16	QPSK	1	80	21.00	21.09	21.19	21.04	21.16	21.16			
16	QPSK	36	20	20.05	20.91	20.95	20.89	20.96	20.96	22	1	
16	QPSK	36	56	20.02	20.97	21.02	20.97	21.02	21.02			
16	QPSK	75	0	20.86	20.93	20.99	20.94	20.98	20.98			
16	16QAM	1	0	20.94	20.93	21.03	21.00	20.98	20.98	22	1	
16	16QAM	1	40	20.95	20.96	20.98	20.94	20.78	20.78			
16	16QAM	1	74	20.78	20.73	20.83	20.71	20.74	20.74			
16	16QAM	36	0	19.89	19.81	20.00	19.80	19.85	19.85	21	2	
16	16QAM	36	36	19.86	19.84	19.92	19.84	19.87	19.87			
16	16QAM	36	56	19.77	19.82	19.89	19.75	19.83	19.83			
16	16QAM	75	0	19.97	19.98	20.05	19.94	20.00	20.00			
16	16QAM	1	0	20.04	20.13	20.20	20.10	20.07	20.07	21	2	
16	16QAM	1	37	19.98	19.93	20.05	19.95	19.89	19.89			
16	16QAM	1	74	20.05	19.99	20.19	20.08	20.04	20.04			
16	16QAM	36	0	19.89	19.87	19.91	19.80	19.86	19.86	20	3	
16	16QAM	36	20	19.78	19.80	19.85	19.79	19.75	19.75			
16	16QAM	36	56	19.82	19.86	19.88	19.85	19.82	19.82			
16	16QAM	75	0	19.97	19.95	19.93	19.94	19.95	19.95			
16	256QAM	1	0	19.98	19.94	17.04	16.99	16.94	16.94	18	5	
16	256QAM	1	40	19.95	19.92	19.95	19.85	19.85	19.85			
16	256QAM	1	74	19.99	19.92	17.05	16.93	16.92	16.92			
16	256QAM	36	0	19.93	19.89	19.94	19.84	19.90	19.90			
16	256QAM	36	36	19.94	19.73	19.88	19.75	19.72	19.72	18	5	
16	256QAM	36	56	19.84	19.71	19.78	19.67	19.69	19.69			
16	256QAM	75	0	19.97	19.96	19.98	19.96	19.96	19.96			
Channel												
				39760	40168	40620	41058	41515	41915			
				22.11	22.28	22.29	22.21	22.21	22.21			
16	QPSK	1	0	22.11	22.28	22.29	22.21	22.21	22.21	23.00	0	
16	QPSK	1	25	21.97	21.91	21.95	21.90	21.94	21.94			
16	QPSK	1	40	21.05	21.94	22.04	22.00	22.09	22.09			
16	QPSK	1	80	21.01	21.09	21.19	21.04	21.16	21.16			
16	QPSK	25	12	20.95	20.90	20.95	20.89	20.96	20.96	22	1	
16	QPSK	25	26	20.93	20.97	21.02	20.88	20.96	20.96			
16	QPSK	50	0	20.86	20.93	20.98	20.94	20.98	20.98			
16	16QAM	1	0	20.93	20.93	21.04	21.00	20.98	20.98	22	1	
16	16QAM	1	25	20.78	20.80	20.88	20.94	20.75	20.75			
16	16QAM	1	40	20.78	20.73	20.83	20.71	20.74	20.74			
16	16QAM	25	0	19.90	19.81	20.00	19.80	19.85	19.85	21	2	
16	16QAM	25	14	19.96	19.93	20.08	19.96	19.98	19.98			
16	16QAM	25	18	19.77	19.83	19.89	19.75	19.84	19.84			
16	16QAM	50	0	19.97	19.98	20.05	19.94	20.00	20.00			
16	16QAM	1	25	19.98	19.93	20.06	19.95	19.89	19.89	21	2	
16	16QAM	1	40	20.05	19.99	20.14	20.09	20.04	20.04			
16	16QAM	25	0	19.89	19.88	19.91	19.91	19.97	19.97			
16	16QAM	25	12	19.77	19.79	19.85	19.70	19.75	19.75	20	3	
16	16QAM	25	26	19.93	19.84	19.88	19.78	19.78	19.78			
16	16QAM	50	0	19.97	19.95	19.94	19.95	19.96	19.96			
16	256QAM	1	0	16.99	16.94	17.05	16.99	16.95	16.95	18	5	
16	256QAM	1	25	16.95	16.92	16.99	16.85	16.95	16.95			
16	256QAM	1	40	16.99	16.93	17.05	16.93	16.92	16.92			
16	256QAM	25	0	16.92	16.89	16.95	16.84	16.89	16.89			
16	256QAM	25	12	16.74	16.79	16.83	16.75	16.73	16.73	18	5	
16	256QAM	25	26	16.94	16.70	16.78	16.67	16.65	16.65			
16	256QAM	50	0	16.88	16.86	16.88	16.96	16.97	16.97			

Band 41 HPUE Ant0												
RW [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 limit (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				39750	40188	40620	41058	41490				
20	QPSK	1	0	24.16	24.21	24.30	24.26	24.17	24.17			
20	QPSK	1	40	24.11	24.21	24.25	24.10	24.10	24.12	24.5	0	
20	QPSK	1	80	24.08	24.29	24.31	24.13	24.12	24.12			
20	QPSK	50	0	24.21	24.26	24.34	24.33	24.22	24.22	24.5	0	
20	QPSK	50	24	24.16	24.26	24.30	24.15	24.17	24.17			
20	QPSK	50	48	24.13	24.29	24.27	24.17	24.22	24.22			
20	QPSK	100	0	24.15	24.12	24.24	24.16	24.20	24.20			
20	16QAM	1	0	24.16	24.22	24.24	24.23	24.21	24.21	24.5	0	
20	16QAM	1	40	24.02	24.10	24.15	24.05	24.01	24.01			
20	16QAM	1	80	24.00	23.98	24.03	23.99	24.01	24.01			
20	16QAM	50	0	23.16	23.13	23.26	23.20	23.18	23.18	24	0.5	
20	16QAM	50	24	23.20	23.13	23.26	23.20	23.18	23.18			
20	16QAM	50	50	23.10	23.11	23.19	22.99	23.11	23.11			
20	16QAM	100	0	23.22	23.22	23.34	23.20	23.22	23.22			
20	16QAM	100	1	23.35	23.43	23.53	23.35	23.33	23.33			
20	16QAM	1	40	23.21	23.22	23.29	23.23	23.12	23.12	24	0.5	
20				23.32	23.39	23.49	23.32	23.33	23.33			
20	16QAM	50	0	22.21	22.17	22.31	22.05	22.12	22.12			
20	16QAM	50	24	22.11	22.07	22.15	21.97	22.01	22.01	23	1.5	
20	16QAM	50	48	22.12	22.08	22.15	21.98	22.04	22.04			
20	16QAM	100	0	22.21	22.30	22.32	22.20	22.20	22.20			
20	16QAM	100	1	23.25	23.30	23.32	23.20	23.21	23.21			
20	256QAM	1	0	20.25	20.20	20.32	20.22	20.19	20.19	21	3.5	
20	256QAM	1	40	20.20	20.25	20.34	20.19	20.20	20.20			
20	256QAM	1	80	20.33	20.26	20.38	20.13	20.17	20.17			
20	256QAM	50	0	19.78	19.78	19.95	19.73	19.75	19.75	21	3.5	
20	256QAM	50	24	19.95	20.07	20.13	20.07	19.96	19.96			
20	256QAM	50	50	19.84	19.93	20.09	19.89	19.90	19.90			
20	256QAM	100	0	20.15	20.13	20.21	20.03	20.03	20.03			
Channel				39750	40188	40620	41058	41490				
Frequency (MHz)				24.16	24.21	24.30	24.26	24.17				
15	QPSK	1	0	24.16	24.21	24.30	24.26	24.17	24.17			
15	QPSK	1	37	24.05	24.20	24.15	24.09	24.06	24.06	25	0	
15	QPSK	1	74	24.03	24.00	24.11	24.03	24.04	24.04			
15	QPSK	50	0	24.16	24.26	24.34	24.33	24.22	24.22	24.5	0	
15	QPSK	50	24	24.02	24.22	24.17	24.05	24.04	24.04			
15	QPSK	50	48	24.10	24.24	24.22	24.10	24.11	24.11			
15	QPSK	100	0	24.08	24.07	24.15	24.08	24.14	24.14			
15	16QAM	1	0	24.08	24.13	24.15	24.08	24.14	24.14	24.5	0	
15	16QAM	1	37	23.92	24.01	23.93	23.86	23.89	23.89			
15	16QAM	1	74	23.86	23.94	23.99	23.89	23.95	23.95			
15	16QAM	50	0	23.11	23.07	23.08	22.99	23.01	23.01	24	0.5	
15	16QAM	50	24	23.10	23.03	23.03	22.93	22.93	22.93			
15	16QAM	50	39	23.02	22.97	23.10	22.90	23.01	23.01	23	1.5	
15	16QAM	100	0	23.16	23.26	23.29	23.15	23.16	23.16			
15	16QAM	100	1	23.21	23.30	23.39	23.23	23.28	23.28			
15	16QAM	1	37	23.11	23.11	23.16	23.12	23.17	23.17	24	0.5	
15	16QAM	1	74	23.27	23.14	23.23	23.13	23.23	23.23			
15	16QAM	50	0	22.17	22.05	22.23	22.03	22.05	22.05			
15	16QAM	50	24	22.18	22.03	22.11	21.93	22.03	22.03			
15	16QAM	50	39	21.98	22.01	22.09	21.89	22.03	22.03	23	1.5	
15	16QAM	100	0	22.24	22.31	22.34	22.21	22.22	22.22			
15	16QAM	100	1	23.14	23.21	23.23	23.14	23.15	23.15			
15	256QAM	1	0	20.24	20.19	20.34	20.14	20.14	20.14	21	3.5	
15	256QAM	1	37	20.24	20.19	20.31	20.03	20.03	20.03			
15	256QAM	1	74	20.11	20.16	20.28	20.03	20.03	20.03			
15	256QAM	50	0	19.87	19.98	20.08	19.85	19.84	19.84	21	3.5	
15	256QAM	50	24	19.80	19.81	20.05	19.81	19.85	19.85			
15	256QAM	50	39	19.60	19.64	20.01	19.57	19.61	19.61			
Channel				39750	40188	40620	41058	41490				
Frequency (MHz)				24.16	24.21	24.30	24.26	24.17				
5	QPSK	1	0	24.16 <td>24.21<td>24.30<td>24.26<td>24.17</td><td>24.17</td><td>24.50</td><td>0</td><td></td></td></td></td>	24.21 <td>24.30<td>24.26<td>24.17</td><td>24.17</td><td>24.50</td><td>0</td><td></td></td></td>	24.30 <td>24.26<td>24.17</td><td>24.17</td><td>24.50</td><td>0</td><td></td></td>	24.26 <td>24.17</td> <td>24.17</td> <td>24.50</td> <td>0</td> <td></td>	24.17	24.17	24.50	0	
5	QPSK	1	25	23.98 <td>24.07</td> <td>24.15</td> <td>24.06</td> <td>24.06</td> <td>24.06</td> <td>24.50</td> <td>0</td> <td></td>	24.07	24.15	24.06	24.06	24.06	24.50	0	
5	QPSK	1	49	23.97	24.06	24.14	24.05	24.05	24.05			
5	QPSK	25	0	24.10	24.12	24.25	24.15	24.09	24.09	24.5	0	
5	QPSK	25	12	24.02	24.12	24.20	24.11	24.11	24.11			
5	QPSK	25	24	24.03	24.25	24.13	24.03	24.13	24.13			
5	QPSK	50	0	24.04	24.08	24.14	24.10	24.07	24.07	24.5	0	
5	16QAM	1	0	24.04	24.08	24.09	24.16	24.06	24.06			
5	16QAM	1	25	23.88	24.03	24.03	24.03	24.03	24.03	24.5	0	
5	16QAM	1	49	23.86	23.84	23.99	23.85	23.94	23.94			
5	16QAM	25	0	23.05	23.01	23.11	22.99	22.99	22.99	24	0.5	
5	16QAM	25	12	23.06	23.08	23.13	22.93	23.11	23.11			
5	16QAM	25	24	22.97	22.97	23.13	22.84	23.05	23.05			
5	16QAM	50	0	23.13	23.14	23.14	23.03	23.13	23.13			
5	16QAM	1	0	23.22	23.25	23.47	23.27	23.28	23.28	24	0.5	
5	16QAM	1	25	23.14	23.15	23.23	23.09	23.26	23.26			
5	16QAM	1	49	23.18	23.14	23.23	23.07	23.24	23.24			
5	16QAM	25	0	22.13	22.10	22.21	22.03	22.17	22.17	23	1.5	
5	16QAM	25	12	21.98	21.94	22.05	21.89	22.07	22.07			
5	16QAM	25	24	22.02	22.02	22.18	21.97	22.10	22.10			
5	16QAM	50	0	22.12	22.25	22.29	22.11	22.10	22.10			
5	16QAM	50	12	22.13	22.14	22.23	22.05	22.13	22.13			
5	256QAM	1	0	19.97	19.98	20.17	20.07	20.10	20.10	21	3.5	
5	256QAM	1	49	19.79	20.14	20.29	20.09	20.09	20.09			
5	256QAM	1	80	20.04	20.12	20.25	20.06	20.06	20.06			
5	256QAM	25	12	19.91	19.95	20.06	19.96	19.92	19.92	21	3.5	
5	256QAM	25	24	19.90	19.88	19.95	19.84	19.87	19.87			
5	256QAM	50	0	19.84	19.85	20.09	19.84	19.85	19.85			
Channel				39675	40140	40620	41080	41565				
Frequency (MHz)				24.08	24.16	24.30	24.26	24.14				
5	QPSK	1	0	24.08 <td>24.16<td>24.30<td>24.26<td>24.14<td>24.14</td><td>24.50</td><td>0</td><td></td></td></td></td></td>	24.16 <td>24.30<td>24.26<td>24.14<td>24.14</td><td>24.50</td><td>0</td><td></td></td></td></td>	24.30 <td>24.26<td>24.14<td>24.14</td><td>24.50</td><td>0</td><td></td></td></td>	24.26 <td>24.14<td>24.14</td><td>24.50</td><td>0</td><td></td></td>	24.14 <td>24.14</td> <td>24.50</td> <td>0</td> <td></td>	24.14	24.50	0	
5	QPSK	1	12	23.98 <td>24.17<td>24.15</td><td>23.99</td><td>24.07</td><td>24.07</td><td>24.50</td><td>0</td><td></td></td>	24.17 <td>24.15</td> <td>23.99</td> <td>24.07</td> <td>24.07</td> <td>24.50</td> <td>0</td> <td></td>	24.15	23.99	24.07	24.07	24.50	0	
5	QPSK	1	24	23.96 <td>24.16</td> <td>24.14</td> <td>23.98</td> <td>24.03</td> <td>24.03</td> <td></td> <td></td> <td></td>	24.16	24.14	23.98	24.03	24.03			
5	QPSK	12	0	24.14	24.15	24.28	24.18	24.14	24.14			
5	QPSK	12	7	24.13	24.21	24.15	24.10	24.12	24.12			
5	QPSK	12	14	24.03	24.22	24.12	24.07	24.10	24.10			
5	QPSK	25	0	24.01	23.99	24.18	24.03	24.08	24.08	24.5	0	
5	QPSK	1	0	24.10	24.14	24.17	24.12	24.12	24.12			
5	QPSK	1	12	24.01	24.11	24.11	24.01	24.08	24.08			
5	16QAM	1	24	23.94	23.95	23.96	23.94	23.92	23.92	24	0.5	
5	16QAM	1	12	23.92	23.99	24.00	23.92	23.97	23.97			
5	16QAM	12	7	23.15	23.29	23.26	23.09	23.11	23.11			
5	16QAM	12	13	23.11	23.29	23.15	22.99	23.15	23.15			
5	16QAM	1	0	23.24	23.31	23.38	23.31	23.28	23.28	24	0.5	
5	16QAM	1	12	23.00	23.11	23.23	23.19	23.05	23.05			
5	16QAM	1	24	23.02	23.14	23.27	23.14	23.30	23.30			
5	16QAM	12	13	22.10	22.15	22.27	21.98	22.17	22.17	23	1.5	
5	16QAM	1	0	21.98	22.07	22.07	21.95	21.97	21.97			
5	16QAM	1	12	22.01	21.99	22.07	21.89	22.01	22.01			
5	16QAM	25	0	22.12	22.23	22.25	22.17	22.17	22.17			
5	16QAM	25	12	22.08	22.15	22.22	22.03	22.12	22.12			
5	256QAM	1	12	20.03	20.04	20.18	19.95	20.07	20.07	21	3.5	
5	256QAM	1	24	20.26	20.18	20.33	20.05	20.05	20.05			
5	256QAM	1	49	20.09	20.16	20.28	20.04	20.04	20.04			
5	256QAM	12										



Band 38 Ant2												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.72	22.90	22.86	24	0				
20	QPSK	1	49	22.71	22.84	22.80						
20	QPSK	1	98	22.68	22.77	22.71						
20	QPSK	50	0	21.82	21.90	21.93						
20	QPSK	50	24	21.84	21.89	21.79	23	1				
20	QPSK	50	50	21.88	21.89	21.79						
20	QPSK	100	0	21.81	21.90	21.85						
20	16QAM	1	0	21.76	21.85	21.78						
20	16QAM	1	49	21.68	21.74	21.60	23	1				
20	16QAM	1	99	21.74	21.81	21.73						
20	16QAM	50	0	20.81	20.86	20.80						
20	16QAM	50	24	20.77	20.80	20.70						
20	16QAM	50	50	20.83	20.76	20.71	22	2				
20	16QAM	100	0	20.80	20.80	20.64						
20	16QAM	100	1	20.85	20.90	20.84						
20	64QAM	1	49	20.78	20.91	20.83						
20	64QAM	1	99	20.74	20.84	20.74	21	3				
20	64QAM	50	0	19.78	19.85	19.72						
20	64QAM	50	24	19.76	19.81	19.77						
20	64QAM	50	50	19.88	19.70	19.68						
20	25QAM	1	0	17.84	17.94	17.82	19	5				
20	25QAM	1	49	17.79	17.86	17.85						
20	25QAM	1	99	17.89	17.92	17.84						
20	25QAM	50	0	17.78	17.86	17.73						
20	25QAM	50	24	17.80	17.83	17.74	19	5				
20	25QAM	50	50	17.82	17.78	17.67						
20	25QAM	100	0	17.85	17.87	17.61						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.60	22.70	22.74				24	0	
15	QPSK	1	47	22.68	22.73	22.68						
15	QPSK	1	74	22.63	22.63	22.84						
15	QPSK	36	0	21.79	21.89	21.84						
15	QPSK	36	20	21.75	21.78	21.78	23	1				
15	QPSK	36	49	21.78	21.87	21.87						
15	QPSK	75	0	21.76	21.82	21.70						
15	16QAM	1	0	21.67	21.73	21.65						
15	16QAM	1	47	21.65	21.65	21.67	23	1				
15	16QAM	1	74	21.60	21.70	21.70						
15	16QAM	36	0	20.72	20.73	20.67						
15	16QAM	36	20	20.62	20.65	20.58						
15	16QAM	36	49	20.54	20.70	20.56	22	2				
15	16QAM	75	0	20.81	20.86	20.69						
15	16QAM	1	0	20.78	20.84	20.73						
15	64QAM	1	27	20.68	20.70	20.69						
15	64QAM	1	74	20.63	20.74	20.81	21	3				
15	64QAM	36	0	19.87	19.71	19.82						
15	64QAM	36	20	18.89	19.74	19.64						
15	64QAM	36	49	19.82	19.82	19.62						
15	64QAM	75	0	19.71	19.90	19.70	19	5				
15	25QAM	1	0	17.78	17.82	17.78						
15	25QAM	1	47	17.85	17.84	17.83						
15	25QAM	1	74	17.81	17.82	17.80						
15	25QAM	36	0	17.65	17.81	17.88	19	5				
15	25QAM	36	20	17.75	17.77	17.63						
15	25QAM	36	49	17.48	17.68	17.63						
15	25QAM	75	0	17.70	17.86	17.67						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.48	22.72	22.74	24	0				
10	QPSK	1	25	22.81	22.79	22.73						
10	QPSK	1	49	22.81	22.82	22.65						
10	QPSK	36	0	21.74	21.89	21.81						
10	QPSK	25	12	21.79	21.78	21.69	23	1				
10	QPSK	25	25	21.82	21.82	21.70						
10	QPSK	50	0	21.73	21.86	21.77						
10	16QAM	1	0	21.76	21.70	21.60						
10	16QAM	1	25	21.88	21.86	21.86	23	1				
10	16QAM	1	49	21.64	21.67	21.64						
10	16QAM	25	0	20.70	20.77	20.71						
10	16QAM	25	12	20.68	20.74	20.65						
10	16QAM	25	25	20.46	20.64	20.63	22	2				
10	16QAM	50	0	20.76	20.88	20.79						
10	16QAM	1	0	20.79	20.84	20.72						
10	16QAM	1	25	20.71	20.85	20.77						
10	16QAM	1	49	20.66	20.80	20.62	22	2				
10	16QAM	25	0	19.74	19.82	19.60						
10	16QAM	25	12	19.64	19.70	19.88						
10	16QAM	25	25	19.65	19.65	19.58						
10	16QAM	50	0	19.76	19.87	19.81	21	3				
10	25QAM	1	0	17.74	17.83	17.68						
10	25QAM	1	25	17.88	17.76	17.76						
10	25QAM	1	49	17.81	17.88	17.75						
10	25QAM	25	0	17.68	17.74	17.69	19	5				
10	25QAM	25	12	17.73	17.69	17.64						
10	25QAM	25	25	17.50	17.71	17.63						
10	25QAM	50	0	17.76	17.78	17.78						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.63	22.75	22.74	24	0				
5	QPSK	1	12	22.58	22.70	22.68						
5	QPSK	1	24	22.58	22.69	22.58						
5	QPSK	12	0	21.88	21.88	21.88						
5	QPSK	12	7	21.71	21.77	21.75	23	1				
5	QPSK	12	13	21.79	21.79	21.71						
5	QPSK	26	0	21.74	21.81	21.72						
5	16QAM	1	0	21.72	21.80	21.71						
5	16QAM	1	12	21.62	21.81	21.62	23	1				
5	16QAM	1	24	21.60	21.74	21.68						
5	16QAM	12	0	20.72	20.81	20.69						
5	16QAM	12	7	20.74	20.67	20.58						
5	16QAM	12	13	20.88	20.81	20.62	22	2				
5	16QAM	25	0	20.85	20.92	20.74						
5	16QAM	1	0	20.82	20.90	20.80						
5	16QAM	1	12	20.73	20.86	20.77						
5	16QAM	1	24	20.68	20.77	20.68	21	3				
5	16QAM	12	0	19.88	19.72	19.68						
5	16QAM	12	7	19.72	19.70	19.66						
5	16QAM	12	13	19.88	19.69	19.64						
5	16QAM	26	0	19.71	19.83	19.66	19	5				
5	25QAM	1	0	17.72	17.87	17.74						
5	25QAM	1	12	17.67	17.84	17.75						
5	25QAM	1	24	17.82	17.70	17.77						
5	25QAM	12	0	17.73	17.75	17.65	19	5				
5	25QAM	12	7	17.77	17.76	17.69						
5	25QAM	12	13	17.69	17.65	17.58						
5	25QAM	26	0	17.72	17.83	17.66						

Band 38 HPUE Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37850	38000	38150			
20	QPSK	1	0	24.75	24.90	24.89	25.5	0	
20	QPSK	1	49	24.71	24.79	24.67			
20	QPSK	1	99	24.69	24.75	24.67			
20	QPSK	50	0	24.85	24.90	24.79			
20	QPSK	50	24	24.81	24.89	24.76	25.5	0	
20	QPSK	50	50	24.83	24.83	24.77			
20	QPSK	100	0	24.84	24.94	24.90			
20	16QAM	1	0	24.72	24.		25.5	0	
20	16QAM	1	49	24.68	24.76	24.64			
20	16QAM	1	99	24.65	24.64	24.51			
20	16QAM	50	0	24.76	24.81	24.84			
20	16QAM	50	24	24.72	24.79	24.67	25	0.5	
20	16QAM	50	50	24.75	24.75	24.71			
20	16QAM	100	0	24.82	24.90	24.92			
20	64QAM	1	0	24.70	24.75	24.70	25	0.5	
20	64QAM	1	49	24.68	24.68	24.58			
20	64QAM	1	99	24.65	24.65	24.50			
20	64QAM	50	0	24.75	24.80	24.82			
20	64QAM	50	24	24.71	24.78	24.66	25	0.5	
20	64QAM	50	50	24.73	24.73	24.69			
20	64QAM	100	0	24.82	24.92	24.93			
20	256QAM	1	0	20.94	21.01	20.99	22	3.5	
20	256QAM	1	49	20.92	20.92	20.82			
20	256QAM	1	99	20.75	20.84	20.74			
20	256QAM	50	0	20.96	21.00	20.97			
20	256QAM	50	24	20.72	20.79	20.65	22	3.5	
20	256QAM	50	50	20.73	20.67	20.59			
20	256QAM	100	0	20.80	20.87	20.78			
Channel				37825	38000	38175	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				24.75	24.90	24.74			
15	QPSK	1	37	24.63	24.68	24.67	25.5	0	
15	QPSK	1	37	24.61	24.75	24.67			
15	QPSK	1	74	24.63	24.68	24.69			
15	QPSK	36	20	24.65	24.68	24.68			
15	QPSK	36	20	24.71	24.65	24.66	25.5	0	
15	QPSK	36	56	24.67	24.68	24.65			
15	QPSK	75	0	24.78	24.60	24.84			
15	16QAM	1	0	24.63	24.60	24.84	25.5	0	
15	16QAM	1	37	24.63	24.75	24.67			
15	16QAM	1	74	24.67	24.72	24.63			
15	16QAM	36	0	23.62	23.62	23.79			
15	16QAM	36	0	23.62	23.78	23.62	25	0.5	
15	16QAM	36	39	23.60	23.60	23.54			
15	16QAM	75	0	23.60	23.60	23.60			
15	64QAM	1	0	23.94	24.07	23.97	24	1.0	
15	64QAM	1	37	23.77	23.94	23.87			
15	64QAM	1	74	23.81	23.93	23.87			
15	64QAM	36	0	22.79	22.79	22.74			
15	64QAM	36	20	22.66	22.77	22.74	24	1.0	
15	64QAM	36	56	22.66	22.77	22.68			
15	64QAM	75	0	22.74	22.68	22.89			
15	256QAM	1	37	20.77	20.86	20.78	22	3.5	
15	256QAM	1	74	20.64	20.76	20.63			
15	256QAM	1	99	20.63	20.75	20.65			
15	256QAM	36	20	20.58	20.71	20.68			
15	256QAM	36	39	20.59	20.78	20.68	22	3.5	
15	256QAM	36	56	20.60	20.77	20.67			
15	256QAM	75	0	20.60	20.60	20.60			
Channel				37800	38000	38200	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				24.68	24.74	24.64			
10	QPSK	1	0	24.68 <td>24.74<td>24.64</td><td rowspan="4">25.5</td><td rowspan="4">0</td><td rowspan="4"></td></td>	24.74 <td>24.64</td> <td rowspan="4">25.5</td> <td rowspan="4">0</td> <td rowspan="4"></td>	24.64	25.5	0	
10	QPSK	1	25	24.66 <td>24.69<td>24.52</td></td>	24.69 <td>24.52</td>	24.52			
10	QPSK	1	50	24.66 <td>24.67</td> <td>24.52</td>	24.67	24.52			
10	QPSK	25	0	24.82	24.87	24.87			
10	QPSK	25	12	24.87 <td>24.84<td>24.68</td><td rowspan="3">25.5</td><td rowspan="3">0</td><td rowspan="3"></td></td>	24.84 <td>24.68</td> <td rowspan="3">25.5</td> <td rowspan="3">0</td> <td rowspan="3"></td>	24.68	25.5	0	
10	QPSK	25	37	24.87 <td>24.84<td>24.62</td></td>	24.84 <td>24.62</td>	24.62			
10	QPSK	50	0	24.70 <td>24.86<td>24.77</td></td>	24.86 <td>24.77</td>	24.77			
10	16QAM	1	0	24.78 <td>24.81</td> <td>24.82</td> <td rowspan="4">25.5</td> <td rowspan="4">0</td> <td rowspan="4"></td>	24.81	24.82	25.5	0	
10	16QAM	1	25	24.79 <td>24.80</td> <td>24.79</td>	24.80	24.79			
10	16QAM	1	49	24.84 <td>24.78</td> <td>24.81</td>	24.78	24.81			
10	16QAM	25	0	23.61	23.73	23.81			
10	16QAM	25	12	23.59	23.73	23.68	25	0.5	
10	16QAM	25	25	23.58	23.63	23.54			
10	16QAM	50	0	23.78	23.87	23.87			
10	64QAM	1	0	24.00	24.01	23.89	25	0.5	
10	64QAM	1	25	23.74	23.68	23.75			
10	64QAM	1	49	23.78	23.78	23.64			
10	64QAM	25	0	22.76	22.80	22.78			
10	64QAM	25	12	22.62	22.81	22.75	24	1.0	
10	64QAM	25	25	22.79	22.79	22.68			
10	64QAM	50	0	22.76	22.83	22.82			
10	256QAM	1	0	20.80	20.90	20.79	22	3.5	
10	256QAM	1	25	20.83	20.81	20.75			
10	256QAM	1	49	20.71	20.73	20.64			
10	256QAM	25	0	20.67	20.86	20.67			
10	256QAM	25	12	20.66	20.76	20.68	22	3.5	
10	256QAM	25	25	20.68	20.72	20.70			
10	256QAM	50	0	20.67	20.82	20.82			
Channel				37775	38000	38225	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				24.64	24.68	24.54			
5	QPSK	1	0	24.64 <td>24.68<td>24.54<td rowspan="4">25.5</td><td rowspan="4">0</td><td rowspan="4"></td></td></td>	24.68 <td>24.54<td rowspan="4">25.5</td><td rowspan="4">0</td><td rowspan="4"></td></td>	24.54 <td rowspan="4">25.5</td> <td rowspan="4">0</td> <td rowspan="4"></td>	25.5	0	
5	QPSK	1	12	24.67 <td>24.75<td>24.58</td></td>	24.75 <td>24.58</td>	24.58			
5	QPSK	1	24	24.67 <td>24.77<td>24.61</td></td>	24.77 <td>24.61</td>	24.61			
5	QPSK	12	0	24.74 <td>24.79<td>24.68</td></td>	24.79 <td>24.68</td>	24.68			
5	QPSK	12	7	24.77 <td>24.85<td>24.68</td><td rowspan="3">25.5</td><td rowspan="3">0</td><td rowspan="3"></td></td>	24.85 <td>24.68</td> <td rowspan="3">25.5</td> <td rowspan="3">0</td> <td rowspan="3"></td>	24.68	25.5	0	
5	QPSK	12	19	24.77 <td>24.84</td> <td>24.67</td>	24.84	24.67			
5	QPSK	25	0	24.79 <td>24.97<td>24.88</td></td>	24.97 <td>24.88</td>	24.88			
5	16QAM	1	0	24.62 <td>24.71</td> <td>24.69</td> <td rowspan="4">25.5</td> <td rowspan="4">0</td> <td rowspan="4"></td>	24.71	24.69	25.5	0	
5	16QAM	1	12	24.67 <td>24.71</td> <td>24.61</td>	24.71	24.61			
5	16QAM	1	24	24.68 <td>24.57</td> <td>24.42</td>	24.57	24.42			
5	16QAM	12	0	23.62	23.62	23.69			
5	16QAM	12	7	23.69	23.80	23.65	25	0.5	
5	16QAM	12	13	23.60	23.63	23.59			
5	16QAM	25	0	23.78	23.86	23.78			
5	64QAM	1	0	24.00	23.96	23.82	24	1.0	
5	64QAM	1	12	23.79	23.69	23.81			
5	64QAM	1	24	23.79	23.76	23.64			
5	64QAM	12	0	22.82	22.81	22.82			
5	64QAM	12	7	22.86	22.82	22.69	24	1.0	
5	64QAM	12	19	22.79	22.76	22.66			
5	64QAM	25	0	22.84	22.88	22.84			
5	256QAM	1	0	20.79	20.87	20.80	22	3.5	
5	256QAM	1	12	20.80	20.88	20.80			
5	256QAM	1	24	20.67	20.72	20.67			
5	256QAM	12	0	20.67	20.88	20.68			
5	256QAM	12	7	20.59	20.67	20.53	22	3.5	
5	256QAM	12	13	20.62	20.62	20.64			
5	256QAM	25	0	20.62	20.82	20.82			

Band 41 Ant2																	
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Mid Ch / Freq.	Power High Mid Ch / Freq.	Power Low Hgh Ch / Freq.	Power High Hgh Ch / Freq.	Turn-up limit (dBm)	MPR (dB)						
Channel																	
Frequency (MHz)				39750	40185	40600	41066	41490	41915								
Power (dBm)				26.65	26.65	26.65	26.65	26.65	26.65								
20	QPSK	1	5	22.71	22.85	22.84	22.89	22.86	22.88	24	0						
20	QPSK	1	40	22.65	22.73	22.79	22.75	22.72	22.72								
20	QPSK	1	80	22.78	22.75	22.84	22.71	22.78	22.76								
20	QPSK	50	5	21.79	21.90	21.94	21.85	21.80	21.80								
20	QPSK	50	24	21.76	21.72	21.85	21.78	21.75	21.75								
20	QPSK	50	40	21.80	21.82	21.81	21.78	21.76	21.76	23	1						
20	QPSK	100	5	21.82	21.86	21.90	21.79	21.84	21.84								
20	16QAM	1	5	21.81	21.83	21.88	21.81	21.79	21.79								
20	16QAM	1	40	21.71	21.72	21.81	21.69	21.68	21.68								
20	16QAM	1	99	21.86	21.82	21.75	21.89	21.83	21.83								
20	16QAM	50	5	20.79	20.89	20.84	20.99	20.92	20.92	22	2						
20	16QAM	50	24	20.77	20.88	20.83	20.76	20.71	20.71								
20	16QAM	50	50	20.77	20.80	20.88	20.83	20.84	20.84								
20	16QAM	100	5	20.87	20.76	20.90	20.84	20.76	20.76								
20	16QAM	100	5	20.52	20.81	20.93	20.75	20.52	20.52								
20	16QAM	1	40	20.79	20.80	20.91	20.88	20.77	20.77	22	2						
20	16QAM	1	99	20.75	20.81	20.84	20.72	20.71	20.71								
20	16QAM	50	5	19.73	19.70	19.84	19.70	19.78	19.78								
20	16QAM	50	24	19.86	19.73	19.77	19.85	19.84	19.84								
20	16QAM	50	50	19.70	19.71	19.79	19.74	19.70	19.70								
20	16QAM	100	5	19.79	19.78	19.92	19.81	19.79	19.79	21	3						
20	256QAM	1	5	17.77	17.84	17.90	17.82	17.84	17.84								
20	256QAM	1	40	17.71	17.73	17.83	17.72	17.75	17.75								
20	256QAM	1	99	17.66	17.70	17.78	17.67	17.66	17.66								
20	256QAM	50	5	17.63	17.68	17.86	17.60	17.78	17.78								
20	256QAM	50	24	17.69	17.70	17.74	17.66	17.61	17.61	19	5						
20	256QAM	50	50	17.68	17.68	17.80	17.73	17.71	17.71								
20	256QAM	100	5	17.68	17.68	17.80	17.78	17.69	17.69								
Channel																	
Frequency (MHz)				39753	40173	40600	41068	41515	41915								
Power (dBm)				26.65	26.65	26.65	26.65	26.65	26.65								
15	QPSK	1	5	22.61	22.72	22.86	22.81	22.82	22.82	24	0						
15	QPSK	1	37	22.52	22.68	22.66	22.83	22.67	22.67								
15	QPSK	1	74	22.71	22.67	22.72	22.84	22.74	22.74								
15	QPSK	36	5	21.72	21.87	21.86	21.71	21.75	21.75								
15	QPSK	36	20	21.69	21.57	21.78	21.64	21.70	21.70								
15	QPSK	75	5	21.67	21.73	21.86	21.67	21.77	21.77	23	1						
15	16QAM	1	5	21.71	21.76	21.82	21.75	21.86	21.86								
15	16QAM	1	37	21.61	21.60	21.69	21.54	21.57	21.57								
15	16QAM	1	74	21.55	21.52	21.67	21.54	21.57	21.57								
15	16QAM	36	5	20.72	20.72	20.90	20.74	20.77	20.77								
15	16QAM	36	20	20.64	20.54	20.85	20.65	20.85	20.85	22	2						
15	16QAM	36	39	20.68	20.69	20.75	20.73	20.78	20.78								
15	16QAM	75	5	20.78	20.82	20.80	20.76	20.84	20.84								
15	16QAM	1	37	20.71	20.72	20.89	20.75	20.88	20.88								
15	16QAM	1	74	20.75	20.76	20.77	20.87	20.87	20.87								
15	256QAM	1	5	19.84	19.88	19.77	19.85	19.74	19.74	21	3						
15	256QAM	36	20	19.54	19.69	19.71	19.96	19.52	19.52								
15	256QAM	36	39	19.62	19.68	19.68	19.85	19.62	19.62								
15	256QAM	75	5	19.75	19.74	19.85	19.76	19.85	19.85								
15	256QAM	1	5	17.64	17.73	17.75	17.78	17.71	17.71								
15	256QAM	1	37	17.69	17.72	17.84	17.63	17.63	17.63	19	5						
15	256QAM	1	74	17.60	17.60	17.72	17.63	17.59	17.59								
15	256QAM	36	5	17.73	17.68	17.73	17.75	17.63	17.63								
15	256QAM	36	20	17.63	17.61	17.68	17.60	17.62	17.62								
15	256QAM	36	39	17.67	17.61	17.66	17.61	17.68	17.68								
15	256QAM	75	5	17.66	17.60	17.86	17.72	17.64	17.64	20	0						
Channel																	
Frequency (MHz)				39760	40160	40600	41068	41540	41940								
Power (dBm)				26.65	26.65	26.65	26.65	26.65	26.65								
15	QPSK	1	25	22.59	22.81	22.72	22.80	22.60	22.60	24	0						
15	QPSK	1	49	22.70	22.63	22.78	22.82	22.74	22.74								
15	QPSK	25	5	21.75	21.79	21.84	21.71	21.75	21.75								
15	QPSK	25	12	21.74	21.68	21.73	21.71	21.72	21.72								
15	QPSK	25	25	21.73	21.76	21.81	21.74	21.75	21.75								
15	QPSK	50	5	21.70	21.74	21.79	21.75	21.75	21.74	23	1						
15	16QAM	1	5	21.67	21.74	21.77	21.68	21.72	21.72								
15	16QAM	1	25	21.68	21.69	21.76	21.58	21.68	21.68								
15	16QAM	1	49	21.61	21.57	21.63	21.63	21.60	21.60								
15	16QAM	25	5	20.70	20.70	20.82	20.85	20.74	20.74								
15	16QAM	25	19	20.69	20.56	20.75	20.68	20.58	20.58	22	2						
15	16QAM	25	35	20.75	20.73	20.81	20.80	20.75	20.75								
15	16QAM	50	5	20.76	20.85	20.80	20.81	20.71	20.71								
15	16QAM	50	19	20.69	20.69	20.80	20.80	20.75	20.75								
15	16QAM	1	25	20.73	20.74	20.78	20.77	20.69	20.69								
15	16QAM	1	49	20.70	20.68	20.70	20.67	20.57	20.57	22	2						
15	16QAM	25	5	19.69	19.69	19.78	19.63	19.63	19.63								
15	16QAM	25	12	19.61	19.68	19.64	19.53	19.59	19.59								
15	16QAM	25	25	19.56	19.57	19.75	19.63	19.66	19.66								
15	16QAM	50	5	19.76	19.64	19.64	19.69	19.67	19.67								
15	256QAM	1	5	17.73	17.71	17.77	17.77	17.73	17.73	21	3						
15	256QAM	1	25	17.66	17.61	17.70	17.60	17.71	17.71								
15	256QAM	1	49	17.58	17.57	17.64	17.59	17.58	17.58								
15	256QAM	25	5	17.73	17.64	17.83	17.77	17.63	17.63								
15	256QAM	25	12	17.66	17.63	17.68	17.63	17.52	17.52								
15	256QAM	25	25	17.61	17.54	17.73	17.61	17.63	17.63	19	5						
15	256QAM	50	5	17.81	17.77	17.81	17.74	17.75	17.75								
Channel																	
Frequency (MHz)				39763	40164	40600	41068	41965	41965								
Power (dBm)				26.65	26.65	26.65	26.65	26.65	26.65								
15	QPSK	1	12	22.53	22.76	22.84	22.82	22.78	22.78	24		0					
15	QPSK	1	25	22.61	22.63	22.67	22.67	22.67	22.67								
15	QPSK	1	49	22.70	22.63	22.75	22.79	22.71	22.71								
15	QPSK	12	5	21.65	21.63	21.85	21.73	21.76	21.76								
15	QPSK	12	7	21.71	21.68	21.79	21.69	21.74	21.74								
15	QPSK	25	1	21.68	21.72	21.79	21.72	21.78	21.78	23	1						
15	QPSK	25	1	21.69	21.79	21.78	21.73	21.68	21.68								
15	QPSK	25	1	21.61	21.68	21.75	21.65	21.61	21.61								
15	16QAM	1	24	21.64	21.48	21.68	21.66	21.57	21.57								
15	16QAM	1	18	21.55	21.57	21.64	21.55	21.56	21.56								
15	16QAM	12	7	20.64	20.60	20.70	20.65	20.63	20.63	22	2						
15	16QAM	12	13	20.70	20.70	20.75	20.70	20.70	20.70								
15	16QAM	25	1	20.73	20.67	20.82	20.70	20.65	20.65								
15	16QAM	1	20	20.79	20.73	20.85	20.64	20.61	20.61								
15	16QAM	1	12	20.71	20.74	20.87	20.70	20.66	20.66								
15	16QAM	24	24	20.71	20.67	20.87	20.67	20.66	20.66	21	3						
15	16QAM	12	13	19.63	19.63	19.67	19.66	19.66	19.66								
15	16QAM	25	1	19.74	19.76	19.83	19.69	19.69	19.69								
15	256QAM	1	1	17.68	17.72	17.84	17.67	17.67	17.67								
15	256QAM	12	7	17.59	17.56	17.70	17.62	17.61	17.61								
15	256QAM	12	13	17.57	17.57	17.68	17.61	17.59	17.59	19	5						
15	256QAM	25	1	17.81	17.77	17.81	17.74	17.75	17.75								
Channel																	
Frequency (MHz)				39765	40164	40600	41068	41965	41965								
Power (dBm)				26.65	26.65	26.65	26.65	26.65	26.65								



Band 42 FCC Part27Q Ant3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)			
Channel				42190	42590	42990					
Frequency (MHz)											
20	QPSK	1	0	20.91	21.13	21.10	21.5	0			
20	QPSK	1	49	20.96	21.11	21.04					
20	QPSK	1	98	20.98	21.03	20.91					
20	QPSK	50	0	19.09	19.15	19.07	20.5	1			
20	QPSK	50	24	19.03	19.07	18.96					
20	QPSK	50	50	19.01	19.03	18.99					
20	HQAM	1	0	19.09	20.05	19.95	20.5	1			
20	HQAM	1	49	19.04	19.97	19.94					
20	HQAM	1	99	20.04	20.10	19.98					
20	HQAM	50	0	17.92	18.07	17.93	19.5	2			
20	HQAM	50	24	18.11	18.15	18.07					
20	HQAM	50	50	17.96	18.02	17.87					
20	HQAM	100	0	18.03	18.06	18.03	19.5	2			
20	HQAM	100	0	19.13	19.15	19.05					
20	HQAM	1	49	18.97	19.11	18.99					
20	HQAM	1	99	19.03	19.07	18.98	18.5	3			
20	HQAM	50	24	17.00	17.05	17.02					
20	HQAM	50	50	17.00	17.07	17.06					
20	HQAM	100	0	16.97	17.02	16.88	20.5	1			
20	25SQAM	1	0	19.03	19.10	19.07					
20	25SQAM	1	49	19.01	19.12	19.06					
20	25SQAM	1	99	19.51	19.63	19.49	20.5	1			
20	25SQAM	50	0	19.11	19.17	19.07					
20	25SQAM	50	24	19.06	19.48	19.61					
20	25SQAM	50	50	19.61	19.70	19.68	20.5	1			
20	25SQAM	100	0	19.03	19.10	19.04					
Channel				42195	42595	43015					
Frequency (MHz)											
15	QPSK	1	0	20.92	21.03	21.06	21.5	0			
15	QPSK	1	47	20.82	21.04	20.98					
15	QPSK	1	74	20.91	20.96	20.83					
15	QPSK	36	0	19.05	19.01	19.01	20.5	1			
15	QPSK	36	20	18.92	18.97	18.89					
15	QPSK	36	36	19.07	19.04	18.96					
15	QPSK	75	0	18.87	19.02	18.88	20.5	1			
15	HQAM	1	0	19.07	19.05	19.05					
15	HQAM	1	47	19.73	19.07	19.77					
15	HQAM	1	74	19.06	20.02	19.85	19.5	2			
15	HQAM	36	0	17.87	18.01	17.84					
15	HQAM	36	20	18.05	18.04	17.92					
15	HQAM	36	36	17.82	17.98	17.73	19.5	2			
15	HQAM	75	0	17.82	17.87	17.88					
15	HQAM	1	0	19.07	19.03	19.03					
15	HQAM	1	27	18.98	19.00	18.89	19.5	2			
15	HQAM	1	74	18.96	19.05	18.98					
15	HQAM	36	0	16.88	16.84	16.87					
15	HQAM	36	20	16.69	16.59	16.78	18.5	3			
15	HQAM	36	36	17.00	17.00	16.96					
15	HQAM	75	0	16.95	16.95	16.92					
15	25SQAM	1	0	19.46	19.67	19.52	20.5	1			
15	25SQAM	1	27	19.75	19.46	19.48					
15	25SQAM	1	74	19.42	19.57	19.48					
15	25SQAM	36	0	19.61	19.73	19.54	20.5	1			
15	25SQAM	36	20	19.51	19.59	19.59					
15	25SQAM	36	36	19.59	19.68	19.59					
15	25SQAM	75	0	19.47	19.65	19.60					
Channel				42140	42590	43040					
Frequency (MHz)											
10	QPSK	1	0	20.49	21.04	21.01	21.5	0			
10	QPSK	1	25	20.86	20.97	20.96					
10	QPSK	1	49	20.83	20.99	20.83					
10	QPSK	25	0	18.96	19.02	18.94	20.5	1			
10	QPSK	25	12	18.90	18.97	18.87					
10	QPSK	25	25	18.83	18.92	18.79					
10	QPSK	50	0	18.84	18.91	18.92	20.5	1			
10	HQAM	1	0	19.91	20.00	19.80					
10	HQAM	1	25	19.78	19.84	19.77					
10	HQAM	1	49	19.97	20.05	19.86	19.5	2			
10	HQAM	25	0	17.88	18.02	17.86					
10	HQAM	25	12	17.88	18.02	17.84					
10	HQAM	25	24	17.82	17.97	17.78	19.5	2			
10	HQAM	50	0	17.96	17.88	18.01					
10	HQAM	1	0	19.03	19.11	19.04	19.5	2			
10	HQAM	1	25	18.91	18.98	18.91					
10	HQAM	1	49	19.02	19.05	18.87					
10	HQAM	25	0	16.86	17.03	16.91	18.5	3			
10	HQAM	25	12	16.75	16.88	16.72					
10	HQAM	25	25	16.84	17.00	17.02					
10	HQAM	50	0	16.90	16.90	16.77	20.5	1			
10	25SQAM	1	0	19.52	19.59	19.42					
10	25SQAM	1	25	19.54	19.46	19.39					
10	25SQAM	1	49	19.65	19.54	19.54	20.5	1			
10	25SQAM	25	0	19.58	19.67	19.48					
10	25SQAM	25	12	19.47	19.50	19.44					
10	25SQAM	25	25	19.45	19.55	19.55	20.5	1			
10	25SQAM	50	0	19.54	19.67	19.49					
Channel				42115 <th>42590</th> <th>43065</th> <td colspan="3" rowspan="2"></td>	42590	43065					
Frequency (MHz)											
5	QPSK	1	0	20.86	21.02	21.05	21.5	0			
5	QPSK	1	12	20.90	21.05	20.99					
5	QPSK	1	24	20.98	20.99	20.85					
5	QPSK	12	0	19.02	19.02	19.00	20.5	1			
5	QPSK	12	7	18.97	19.01	18.90					
5	QPSK	12	13	18.85	18.98	18.83					
5	QPSK	26	0	16.98	16.90	16.90	20.5	1			
5	HQAM	1	0	19.04	20.00	19.80					
5	HQAM	1	12	19.78	19.80	19.77					
5	HQAM	1	24	19.08	20.05	19.91	19.5	2			
5	HQAM	12	0	17.86	18.01	17.87					
5	HQAM	12	7	18.05	18.06	18.00					
5	HQAM	12	13	17.88	17.97	17.82	19.5	2			
5	HQAM	25	0	17.87	18.00	17.97					
5	HQAM	1	0	19.07	19.11	19.03					
5	HQAM	1	12	18.92	19.05	19.04	18.5	3			
5	HQAM	1	24	18.98	19.02	18.92					
5	HQAM	12	0	16.84	17.01	16.96					
5	HQAM	12	7	16.77	16.91	16.80	20.5	1			
5	HQAM	12	13	16.96	17.03	17.01					
5	HQAM	26	0	16.93	16.98	16.92					
5	25SQAM	1	0	19.49	19.64	19.51	20.5	1			
5	25SQAM	1	12	19.36	19.46	19.41					
5	25SQAM	1	24	19.45	19.57	19.54					
5	25SQAM	12	0	19.04	19.72	19.61	20.5	1			
5	25SQAM	12	7	19.51	19.62	19.54					
5	25SQAM	12	13	19.54	19.63	19.61					
5	25SQAM	25	0	19.59	19.69	19.67					

Band 42 FCC Part96 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)	
Channel				43190	43340	43490			
Frequency (MHz)									
20	QPSK	1	0	20.77	21.06	21.00	21.5	0	
20	QPSK	1	49	20.88	21.01	20.99			
20	QPSK	50	0	18.99	19.04	18.94			
20	QPSK	50	24	18.98	19.07	18.83	20.5	1	
20	QPSK	100	0	16.99	17.04	16.74			
20	QPSK	100	0	16.89	16.93	16.78			
20	16QAM	1	0	19.87	19.94	19.88	20.5	1	
20	16QAM	1	49	19.88	19.93	19.73			
20	16QAM	1	99	19.95	20.01	19.92			
20	16QAM	50	0	17.81	17.83	17.85	19.5	2	
20	16QAM	50	24	17.82	17.83	17.63			
20	16QAM	50	50	17.89	17.92	17.77			
20	16QAM	100	0	17.86	18.01	17.96	19.5	2	
20	16QAM	100	0	17.76	17.84	17.64			
20	16QAM	100	0	16.86	16.91	16.78			
20	16QAM	1	49	18.99	19.04	18.85	19.5	2	
20	16QAM	1	99	19.02	19.08	18.92			
20	16QAM	50	0	16.99	17.02	16.95			
20	16QAM	50	24	16.77	16.88	16.72	18.5	3	
20	16QAM	50	50	17.00	17.03	16.98			
20	16QAM	100	0	16.86	16.91	16.78			
20	25QAM	1	49	19.47	19.49	19.48	20.5	1	
20	25QAM	1	99	19.48	19.53	19.43			
20	25QAM	1	99	19.42	19.53	19.45			
20	25QAM	1	49	19.48	19.53	19.52	20.5	1	
20	25QAM	50	0	19.47	19.50	19.47			
20	25QAM	50	0	19.50	19.53	19.47			
Channel				43165 <th>43315<th>43465</th><th colspan="3"></th></th>	43315 <th>43465</th> <th colspan="3"></th>	43465			
Frequency (MHz)									
15	QPSK	1	0	20.68	20.91	20.91	21.5	0	
15	QPSK	1	37	20.72	20.90	20.85			
15	QPSK	1	74	20.82	20.90	20.71			
15	QPSK	36	0	18.81	18.84	18.84	20.5	1	
15	QPSK	36	20	18.84	18.84	18.68			
15	QPSK	75	0	16.81	16.80	16.75			
15	16QAM	1	0	19.74	19.83	19.71	20.5	1	
15	16QAM	1	37	19.83	19.88	19.73			
15	16QAM	1	74	19.84	19.86	19.72			
15	16QAM	36	0	17.81	17.84	17.82	19.5	2	
15	16QAM	36	20	17.86	17.84	17.69			
15	16QAM	36	39	17.73	17.81	17.63			
15	16QAM	75	0	16.82	16.81	16.77	19.5	2	
15	16QAM	75	0	16.81	16.80	16.75			
15	16QAM	1	37	18.74	18.94	18.82			
15	16QAM	1	74	18.85	18.93	18.75	19.5	2	
15	16QAM	36	0	16.74	16.69	16.68			
15	16QAM	36	20	16.83	16.85	16.66			
15	16QAM	36	39	16.83	16.85	16.64	19.5	3	
15	16QAM	75	0	16.72	16.81	16.69			
15	16QAM	75	0	16.71	16.80	16.68			
15	25QAM	1	37	19.24	19.39	19.29	20.5	1	
15	25QAM	1	74	19.27	19.44	19.35			
15	25QAM	1	74	19.21	19.40	19.35			
15	25QAM	36	0	19.45	19.53	19.45	20.5	1	
15	25QAM	36	39	19.42	19.59	19.45			
15	25QAM	36	0	19.50	19.57	19.57			
Channel				43140 <th>43290<th>43440</th><th colspan="3"></th></th>	43290 <th>43440</th> <th colspan="3"></th>	43440			
Frequency (MHz)									
10	QPSK	1	0	20.70	20.97	20.90	21.5	0	
10	QPSK	1	25	20.75	20.84	20.85			
10	QPSK	1	25	20.78	20.78	20.73			
10	QPSK	25	0	18.91	19.03	18.92	20.5	1	
10	QPSK	25	12	18.86	18.84	18.78			
10	QPSK	50	0	16.89	16.87	16.88			
10	16QAM	1	0	19.84	19.93	19.83	20.5	1	
10	16QAM	1	25	19.88	19.89	19.71			
10	16QAM	1	49	19.85	19.99	19.73			
10	16QAM	25	0	17.75	17.88	17.77	19.5	2	
10	16QAM	25	12	17.82	17.87	17.68			
10	16QAM	25	12	17.76	17.82	17.73			
10	16QAM	50	0	16.75	16.78	16.77	19.5	2	
10	16QAM	50	0	16.96	16.93	16.88			
10	16QAM	1	25	18.77	18.89	18.84			
10	16QAM	1	49	18.86	18.92	18.82	19.5	2	
10	16QAM	25	0	16.77	16.97	16.77			
10	16QAM	25	12	16.82	16.72	16.80			
10	16QAM	50	0	16.79	16.80	16.80	18.5	3	
10	16QAM	50	0	16.80	16.82	16.80			
10	16QAM	50	0	16.78	16.80	16.77			
10	25QAM	1	25	19.20	19.40	19.25	20.5	1	
10	25QAM	1	49	19.32	19.47	19.40			
10	25QAM	1	25	19.33	19.47	19.44			
10	25QAM	25	12	19.43	19.51	19.43	20.5	1	
10	25QAM	25	12	19.42	19.45	19.50			
10	25QAM	25	0	19.50	19.50	19.50			
Channel				43115 <th>43265<th>43415</th><th colspan="3"></th></th>	43265 <th>43415</th> <th colspan="3"></th>	43415			
Frequency (MHz)									
5	QPSK	1	0	20.72	20.99	20.91	21.5	0	
5	QPSK	1	12	20.75	20.91	20.92			
5	QPSK	12	24	20.83	20.92	20.74			
5	QPSK	12	0	18.92	18.96	18.86	20.5	1	
5	QPSK	12	7	18.89	18.94	18.77			
5	QPSK	25	0	16.83	16.86	16.81			
5	16QAM	1	0	19.79	19.85	19.78	20.5	1	
5	16QAM	1	12	19.83	19.89	19.82			
5	16QAM	1	24	19.88	19.93	19.81			
5	16QAM	12	7	17.80	17.87	17.74	19.5	2	
5	16QAM	12	7	17.93	17.97	17.92			
5	16QAM	12	13	17.81	17.88	17.75			
5	16QAM	1	12	17.86	17.87	17.82	19.5	2	
5	16QAM	1	24	17.84	17.83	17.83			
5	16QAM	12	0	16.86	16.91	16.89			
5	16QAM	12	0	16.82	16.87	16.89	18.5	3	
5	16QAM	12	12	16.83	16.85	16.80			
5	16QAM	12	13	16.89	16.86	16.80			
5	16QAM	25	0	16.82	16.83	16.74	20.5	1	
5	16QAM	25	0	16.82	16.83	16.74			
5	16QAM	12	12	19.25	19.39	19.32			
5	25QAM	1	12	19.25	19.39	19.32	20.5	1	
5	25QAM	1	24	19.38	19.49	19.40			
5	25QAM	1	12	19.43	19.53	19.43			
5	25QAM	12	7	19.37	19.49	19.48	20.5	1	
5	25QAM	12	13	19.41	19.48	19.48			
5	25QAM	12	13	19.44	19.49	19.45			



Band 43 for FCC use Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				43650	44050	44450			
20	QPSK	1	0	20.73	21.52	20.77	21.5	0	
20	QPSK	1	49	20.71	20.80	20.74			
20	QPSK	1	98	20.20	20.60	20.77			
20	QPSK	50	0	18.86	19.50	18.78	20.5	1	
20	QPSK	50	24	18.81	18.84	18.74			
20	QPSK	50	50	18.70	18.70	18.78			
20	QPSK	100	0	18.75	18.84	18.76	20.5	1	
20	HQAM	1	0	19.84	19.87	19.72			
20	HQAM	1	49	19.79	19.77	19.82			
20	HQAM	1	99	19.75	19.83	19.78	19.5	2	
20	HQAM	50	0	17.86	17.80	17.84			
20	HQAM	50	50	17.81	17.78	17.81			
20	HQAM	50	50	17.87	17.78	17.83	19.5	2	
20	HQAM	100	0	17.74	17.87	17.77			
20	HQAM	1	0	18.95	18.95	18.91			
20	HQAM	1	49	18.83	18.82	18.83	18.5	3	
20	HQAM	1	99	18.80	18.90	18.82			
20	HQAM	50	24	16.81	16.82	16.87			
20	HQAM	50	50	16.85	16.85	16.81	20.5	1	
20	HQAM	100	0	16.69	16.82	16.74			
20	25QAM	1	0	19.45	19.58	19.45	20.5	1	
20	25QAM	1	49	19.46	19.47	19.49			
20	25QAM	1	99	19.46	19.49	19.51			
20	25QAM	50	24	19.59	19.50	19.59	20.5	1	
20	25QAM	50	50	19.59	19.50	19.59			
20	25QAM	50	50	19.50	19.49	19.52			
20	25QAM	100	0	19.49	19.49	19.59			
Channel									
Frequency (MHz)				43655	44055	44515	Tune-up limit (dBm)	MPR (dB)	
3607.5				3600	3600	3607.5			
15	QPSK	1	0	20.73	20.92	20.68	21.5	0	
15	QPSK	1	47	20.68	20.70	20.63			
15	QPSK	1	74	20.71	20.71	20.68			
15	QPSK	36	0	18.79	18.82	18.68	20.5	1	
15	QPSK	36	20	18.73	18.75	18.69			
15	QPSK	36	36	18.74	18.74	18.74			
15	QPSK	75	0	18.71	18.79	18.74	20.5	1	
15	HQAM	1	0	19.77	19.77	19.64			
15	HQAM	1	37	19.68	19.74	19.74			
15	HQAM	1	74	19.66	19.71	19.70	19.5	2	
15	HQAM	36	0	17.74	17.78	17.72			
15	HQAM	36	20	17.70	17.71	17.70			
15	HQAM	36	39	17.81	17.75	17.79	19.5	2	
15	HQAM	75	0	17.60	17.76	17.75			
15	HQAM	1	0	18.79	18.81	18.81			
15	HQAM	1	37	18.69	18.79	18.72	18.5	3	
15	HQAM	1	74	18.69	18.75	18.74			
15	HQAM	36	0	16.79	16.82	16.78			
15	HQAM	36	20	16.89	16.78	16.73	20.5	1	
15	HQAM	36	39	16.89	16.79	16.85			
15	HQAM	75	0	16.59	16.70	16.65			
15	25QAM	1	0	19.36	19.48	19.37	20.5	1	
15	25QAM	1	37	19.41	19.35	19.38			
15	25QAM	1	74	19.31	19.41	19.48			
15	25QAM	36	0	19.44	19.57	19.49	20.5	1	
15	25QAM	36	20	19.53	19.49	19.47			
15	25QAM	36	39	19.44	19.46	19.45			
15	25QAM	75	0	19.42	19.49	19.34			
Channel									
Frequency (MHz)				43660	44060	44560	Tune-up limit (dBm)	MPR (dB)	
3607.5				3600	3600	3607.5			
10	QPSK	1	0	20.79	20.96	20.72	21.5	0	
10	QPSK	1	25	20.58	20.77	20.58			
10	QPSK	1	49	20.68	20.78	20.72			
10	QPSK	25	0	18.75	18.86	18.72	20.5	1	
10	QPSK	25	12	18.74	18.73	18.65			
10	QPSK	25	25	18.66	18.73	18.65			
10	QPSK	50	0	18.64	18.77	18.63	20.5	1	
10	HQAM	1	0	19.76	19.83	19.67			
10	HQAM	1	25	19.69	19.83	19.68			
10	HQAM	1	49	19.69	19.80	19.65	19.5	2	
10	HQAM	25	0	17.74	17.77	17.70			
10	HQAM	25	12	17.78	17.67	17.75			
10	HQAM	25	25	17.81	17.72	17.74	19.5	2	
10	HQAM	50	0	17.63	17.77	17.62			
10	HQAM	1	0	18.86	18.84	18.82	18.5	3	
10	HQAM	1	25	18.70	18.84	18.72			
10	HQAM	1	49	18.70	18.81	18.73			
10	HQAM	25	0	16.74	16.80	16.61	20.5	1	
10	HQAM	25	12	16.87	16.77	16.78			
10	HQAM	25	25	16.75	16.71	16.70			
10	HQAM	50	0	16.67	16.87	16.69	19.5	2	
10	HQAM	50	25	16.87	16.80	16.74			
10	HQAM	12	7	17.80	17.71	17.77	19.5	2	
10	HQAM	12	0	17.81	17.84	17.78			
10	HQAM	12	7	17.78	17.75	17.76			
10	HQAM	12	11	17.80	17.77	17.77	18.5	3	
10	HQAM	25	0	17.67	17.81	17.71			
10	HQAM	1	0	18.82	18.80	18.80			
10	HQAM	1	12	18.76	18.87	18.78	20.5	1	
10	HQAM	1	24	18.76	18.82	18.76			
10	HQAM	12	7	16.75	16.80	16.80			
10	HQAM	12	7	16.85	16.75	16.81	18.5	3	
10	HQAM	12	13	16.79	16.80	16.74			
10	HQAM	1	0	19.79	19.81	19.66			
10	HQAM	1	12	19.74	19.71	19.78	20.5	1	
10	HQAM	1	24	19.69	19.78	19.73			
10	HQAM	12	0	17.81	17.84	17.78			
10	HQAM	12	7	17.78	17.75	17.76	19.5	2	
10	HQAM	12	11	17.80	17.77	17.77			
10	HQAM	25	0	17.67	17.81	17.71			
10	HQAM	1	0	18.82	18.80	18.80	19.5	2	
10	HQAM	1	12	18.76	18.87	18.78			
10	HQAM	1	24	18.76	18.82	18.76			
10	HQAM	12	7	16.75	16.80	16.80	20.5	1	
10	HQAM	12	13	16.84	16.76	16.69			
10	HQAM	1	0	19.79	19.81	19.66			
10	HQAM	1	12	19.74	19.71	19.78	20.5	1	
10	HQAM	1	24	19.69	19.78	19.73			
10	HQAM	12	0	17.81	17.84	17.78			
10	HQAM	12	7	17.78	17.75	17.76	19.5	2	
10	HQAM	12	11	17.80	17.77	17.77			
10	HQAM	25	0	17.67	17.81	17.71			
10	HQAM	1	0	18.82	18.80	18.80	19.5	2	
10	HQAM	1	12	18.76	18.87	18.78			
10	HQAM	1	24	18.76	18.82	18.76			
10	HQAM	12	7	16.75	16.80	16.80	20.5	1	
10	HQAM	12	13	16.84	16.76	16.69			
10	HQAM	1	0	19.79	19.81	19.66			
10	HQAM	1	12	19.74	19.71	19.78	20.5	1	
10	HQAM	1	24	19.69	19.78	19.73			
10	HQAM	12	0	17.81	17.84	17.78			
10	HQAM	12	7	17.78	17.75	17.76	19.5	2	
10	HQAM	12	11	17.80	17.77	17.77			
10	HQAM	25	0	17.67	17.81	17.71			
10	HQAM	1	0	18.82	18.80	18.80	19.5	2	
10	HQAM	1	12	18.76	18.87	18.78			
10	HQAM	1	24	18.76	18.82	18.76			
10	HQAM	12	7	16.75	16.80	16.80	20.5	1	
10	HQAM	12	13	16.84	16.76	16.69			
10	HQAM	1	0	19.79	19.81	19.66			
10	HQAM	1	12	19.74	19.71	19.78	20.5	1	
10	HQAM	1	24	19.69	19.78	19.73			
10	HQAM	12	0	17.81	17.84	17.78			
10	HQAM	12	7	17.78	17.75	17.76	19.5	2	
10	HQAM	12	11	17.80	17.77	17.77			
10	HQAM	25	0	17.67	17.81	17.71			
10	HQAM	1	0	18.82	18.80	18.80	19.5	2	
10	HQAM	1	12	18.76	18.87	18.78			
10	HQAM	1	24	18.76	18.82	18.76			
10	HQAM	12	7	16.75	16.80	16.80	20.5	1	
10	HQAM	12	13	16.84	16.76	16.69			
10	HQAM	1	0	19.79	19.81	19.66			
10	HQAM	1	12	19.74	19.71	19.78	20.5	1	
10	HQAM	1	24	19.69	19.78	19.73			
10	HQAM	12	0	17.81	17.84	17.78			
10	HQAM	12	7	17.78	17.75	17.76	19.5	2	
10	HQAM	12	11	17.80	17.77	17.77			
10	HQAM	25	0	17.67	17.81	17.71			
10	HQAM	1	0	18.82	18.80	18.80	19.5	2	
10	HQAM	1	12	18.76	18.87	18.78			
10	HQAM	1	24	18.76	18.82	18.76			
10	HQAM	12	7	16.75	16.80	16.80	20.5	1	
10	HQAM	12	13	16.84	16.76	16.69			
10	HQAM	1	0	19.79	19.81	19.66			
10	HQAM	1	12	19.74	19.71	19.78	20.5	1	
10	HQAM	1	24	19.69	19.78	19.73			
10	HQAM	12	0	17.81	17.84	17.78			
10	HQAM	12	7	17.78	17.75	17.76	19.5	2	
10	HQAM	12	11	17.80	17.77	17.77			
10	HQAM	25	0	17.67	17.81	17.71			
10	HQAM	1	0	18.82	18.80	18.80	19.5	2	
10	HQAM	1	12	18.76	18.87	18.78			
10	HQAM	1	24	18.76	18.82	18.76			
10	HQAM	12	7	16.75	16.80	16.80	20.5	1	
10	HQAM	12	13	16.84	16.76	16.69			
10	HQAM	1	0	19.79	19.81	19.66			
10	HQAM	1	12	19.74	19.71	19.78	20.5	1	
10	HQAM	1	24	19.69	19.78	19.73			
10	HQAM	12	0	17.81	17.84	17.78			
10	HQAM								

Band 41 Ant4															
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Middle Ch / Freq	Power High Middle Ch / Freq	Power High Middle Ch / Freq	Power High Middle Ch / Freq	Power High Middle Ch / Freq	Turn-up limit (dBm)	MPR (dB)				
Channel															
Frequency (MHz)															
20	QPSK	1	0	18.92	19.13	19.25	19.35	19.45	19.55	19.5	0				
20	QPSK	1	40	18.89	19.06	19.13	19.08	19.07	19.06						
20	QPSK	1	80	18.87	18.95	19.01	18.96	18.95	18.93						
20	QPSK	50	0	17.97	18.10	18.15	18.02	18.10	18.10						
20	QPSK	50	24	17.96	17.97	18.08	17.99	17.94	17.94						
20	QPSK	100	0	17.96	18.10	18.15	18.02	18.10	18.10	19	0.5				
20	16QAM	1	0	17.94	18.08	18.18	18.12	18.06	18.06						
20	16QAM	1	40	17.92	17.95	18.03	17.98	17.94	17.94						
20	16QAM	1	80	17.92	17.96	18.10	17.98	18.03	18.03						
20	16QAM	50	0	16.95	16.95	17.07	16.96	16.98	16.98						
20	16QAM	50	24	16.74	16.84	16.95	16.84	16.88	16.88	18	1.5				
20	16QAM	50	50	16.70	16.76	16.89	16.78	16.80	16.80						
20	16QAM	100	0	16.71	16.77	17.12	16.77	16.77	16.77						
20	16QAM	100	0	16.58	17.05	17.19	17.15	17.05	17.05						
20	16QAM	1	40	16.85	16.86	16.84	16.87	16.85	16.85						
20	16QAM	1	80	16.81	16.96	17.02	16.93	16.93	16.93	18	1.5				
20	16QAM	50	0	15.90	15.97	16.05	15.98	15.99	15.99						
20	16QAM	50	24	15.71	15.85	15.92	15.83	15.84	15.84						
20	16QAM	50	50	15.92	15.89	16.03	15.98	15.99	15.99						
20	16QAM	100	0	15.88	16.06	16.11	16.00	15.99	15.99						
20	256QAM	1	0	13.77	13.84	13.88	13.87	13.86	13.86	17	2.5				
20	256QAM	1	40	13.83	14.10	14.12	14.01	14.05	14.05						
20	256QAM	1	80	13.88	13.96	14.02	13.94	13.89	13.89						
20	256QAM	50	0	13.79	13.92	13.95	13.84	13.88	13.88						
20	256QAM	50	24	13.73	13.92	13.95	13.80	13.82	13.82						
20	256QAM	50	50	13.79	13.95	14.00	13.92	13.91	13.91	15	4.5				
20	256QAM	100	0	13.82	14.04	14.06	14.06	14.08	14.08						
Channel															
Frequency (MHz)															
16	QPSK	1	0	18.72	18.98	19.12	18.78	18.78	18.78				20	0	
16	QPSK	1	37	18.77	18.98	19.08	18.91	18.88	18.88						
16	QPSK	1	74	18.81	18.78	18.96	18.86	18.84	18.84						
16	QPSK	36	0	17.83	17.98	18.08	17.78	18.05	18.05						
16	QPSK	36	20	17.78	17.90	17.93	17.84	17.80	17.80						
16	QPSK	75	0	17.78	17.97	17.98	17.85	17.83	17.83	19	0.5				
16	16QAM	1	0	17.89	18.03	18.14	17.99	17.97	17.97						
16	16QAM	1	37	17.89	17.98	18.07	17.90	17.89	17.89						
16	16QAM	1	74	17.85	17.90	18.03	17.84	17.92	17.92						
16	16QAM	36	0	16.73	16.83	17.02	16.65	16.85	16.85						
16	16QAM	36	20	16.85	16.84	16.80	16.73	16.81	16.81	18	1.5				
16	16QAM	36	39	16.58	16.64	16.80	16.72	16.68	16.68						
16	16QAM	75	0	16.76	17.02	17.09	16.68	16.93	16.93						
16	16QAM	1	0	16.92	16.91	17.06	17.11	16.95	16.95						
16	16QAM	1	37	16.88	16.76	16.84	16.79	16.75	16.75						
16	16QAM	1	74	16.77	16.91	16.97	16.90	16.95	16.95	17	2.5				
16	16QAM	36	0	15.81	15.85	15.91	15.88	15.85	15.85						
16	16QAM	36	20	15.59	15.76	15.80	15.71	15.74	15.74						
16	16QAM	36	39	15.88	15.88	15.88	15.75	15.89	15.89						
16	16QAM	75	0	15.51	15.97	16.00	15.90	15.95	15.95						
16	256QAM	1	0	13.73	13.77	13.87	13.78	13.80	13.80	15	4.5				
16	256QAM	1	37	13.84	14.03	14.12	13.97	13.95	13.95						
16	256QAM	1	74	13.77	13.85	13.90	13.88	13.86	13.86						
16	256QAM	36	0	13.77	13.98	14.01	13.91	13.97	13.97						
16	256QAM	36	20	13.70	13.80	13.85	13.69	13.97	13.97						
16	256QAM	36	39	13.74	13.82	13.85	13.79	13.86	13.86	15	4.5				
16	256QAM	75	0	13.79	13.90	14.03	13.78	13.99	13.99						
Channel															
Frequency (MHz)															
16	QPSK	1	0	18.83	19.06	19.16	18.80	18.80	18.80	19.50	0				
16	QPSK	1	25	18.79	18.92	19.02	18.84	19.03	19.03						
16	QPSK	1	49	18.76	18.84	18.90	18.90	18.80	18.80						
16	QPSK	25	0	17.88	17.96	18.00	17.80	17.96	17.96						
16	QPSK	25	12	17.75	17.85	17.97	17.93	17.86	17.86						
16	QPSK	25	25	17.87	18.02	17.98	17.88	17.82	17.82	19	0.5				
16	QPSK	50	0	17.79	17.92	17.94	17.84	17.87	17.87						
16	16QAM	1	0	17.88	17.88	18.09	17.87	17.88	17.88						
16	16QAM	1	25	17.72	17.81	17.89	17.86	17.82	17.82						
16	16QAM	1	49	17.84	17.91	17.97	17.92	17.87	17.87						
16	16QAM	25	0	16.71	16.82	17.01	16.65	16.85	16.85	18	1.5				
16	16QAM	25	12	16.84	16.78	16.86	16.86	16.75	16.75						
16	16QAM	25	25	16.83	16.83	16.84	16.87	16.75	16.75						
16	16QAM	50	0	16.80	16.83	17.01	17.03	16.99	16.99						
16	16QAM	50	12	16.81	16.90	17.09	17.09	16.95	16.95						
16	16QAM	1	25	16.70	16.83	16.89	16.80	16.76	16.76	18	1.5				
16	16QAM	1	49	16.87	16.87	17.00	16.80	16.87	16.87						
16	16QAM	25	0	15.85	15.83	16.00	15.94	15.88	15.88						
16	16QAM	25	12	15.87	15.74	15.80	15.70	15.79	15.79						
16	16QAM	25	25	15.79	15.75	15.85	15.79	15.86	15.86						
16	16QAM	50	0	15.86	15.85	16.03	15.92	15.89	15.89	17	2.5				
16	256QAM	1	0	13.72	13.71	13.87	13.72	13.82	13.82						
16	256QAM	1	25	13.83	14.04	14.10	13.90	13.91	13.91						
16	256QAM	1	49	13.82	13.91	13.97	13.81	13.78	13.78						
16	256QAM	25	0	13.73	13.93	13.93	13.81	13.92	13.92						
16	256QAM	25	12	13.83	13.96	13.94	13.75	13.89	13.89	15	4.5				
16	256QAM	25	25	13.72	13.92	13.91	13.78	13.78	13.78						
16	256QAM	50	0	13.83	13.95	14.06	13.99	14.04	14.04						
Channel															
Frequency (MHz)															
5	QPSK	1	0	18.85	18.95	19.21	18.95	19.18	19.18	19.50	0				
5	QPSK	1	15	18.83	18.93	19.09	18.95	18.99	18.99						
5	QPSK	1	24	18.76	18.79	18.93	18.88	18.84	18.84						
5	QPSK	12	0	17.86	17.96	18.04	17.78	18.02	18.02						
5	QPSK	12	7	17.85	17.85	18.01	17.93	17.84	17.84						
5	QPSK	12	13	17.90	17.80	17.96	17.86	17.93	17.93	19	0.5				
5	QPSK	25	0	17.74	17.90	17.96	17.86	17.84	17.84						
5	16QAM	1	0	17.87	17.99	18.05	18.05	17.94	17.94	19	0.5				
5	16QAM	1	15	17.88	17.99	18.05	18.05	17.94	17.94						
5	16QAM	1	24	17.87	17.89	17.97	17.88	17.87	17.87						
5	16QAM	12	0	17.84	17.89	17.97	17.78	17.88	17.88						
5	16QAM	12	7	16.82	16.74	16.88	16.75	16.80	16.80						
5	16QAM	12	13	16.87	16.71	16.81	16.86	16.73	16.73	18	1.5				
5	16QAM	25	0	16.85	17.00	17.07	16.87	17.00	17.00						
5	16QAM	1	0	15.90	16.98	17.09	17.07	16.98	16.98						
5	16QAM	1	12	16.71	16.74	16.85	16.82	16.72	16.72						
5	16QAM	1	24	16.74	16.77	16.87	16.87	16.76	16.76						
5	16QAM	12	0	15.88	15.76	15.85	15.70	15.72	15.72	17	2.5				
5	16QAM	12	13	15.77	15.85	15.96	15.85	15.88	15.88						
5	16QAM	25	0	15.52	15.99	16.03	15.96	15.98	15.98						
5	256QAM	1	0	13.72	13.73	13.86	13.72	13.82	13.82						
5	256QAM	12	7	13.87	13.82	13.91	13.77	13.87	13.87						
5	256QAM	12	13	13.88	13.92	13.96	13.86	13.88	13.88	15	4.5				
5	256QAM	25	0	13.79	13.99	14.00	13.91	13.97	13.97						
Channel															
Frequency (MHz)															
5	QPSK	1	0	18.85	18.95	19.21	18.95	19.18	19.18				19.50	0	
5	QPSK	1	12	18.83	18.93	19.09	18.95	18.99	18.99						
5	QPSK	1	24	18.76	18.79	18.93	18.88	18.84	18.84						
5	QPSK	12	0	17.86	17.96	18.04	17.78	18.02	18.02						
5	QPSK	12	7	17.85	17.85	18.01	17.93	17.84	17.84						
5	QPSK	12	13	17.90	17.80	17.96	17.86	17.93	17.93	19	0.5				
5	QPSK	25	0	17.74	17.90	17.96	17.86	17.84	17.84						
5	16QAM	1	0	17.87	17.99	18.05	18.05	17.94	17.94	19	0.5				
5	16QAM	1	12	17.88	17.99	18.05	18.05	17.94	17.94						
5	16QAM	1	24	17.87	17.89	17.97	17.88	17.87	17.87						
5	16QAM	12	0	17.84	17.89	17.97	17.78	17.88	17.88						
5	16QAM	12	7	16.82	16.74	16.88	16.75	16.80	16.80						
5	16QAM	12	13	16.87	16.71	16.81	16.86	16.73	16.73	18	1.5				
5	16QAM	25	0	16.85	17.00	17.07	16.87	17.00	17.00						
5	16QAM	1	0	15.90	16.98	17.09	17.07	16.98	16.98						
5	16QAM	1	12	16.71	16.74	16.85	16.82	16.72							



Band 42 FCC Part27Q Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				42190	42590	42990				
20	QPSK	1	0	19.24	19.61	19.41	20	0		
20	QPSK	1	49	19.46	19.49	19.43				
20	QPSK	1	99	19.43	19.52	19.46				
20	QPSK	50	0	18.53	19.61	19.41				
20	QPSK	50	24	18.40	18.53	18.41	19	1		
20	QPSK	50	50	18.28	18.53	18.43				
20	QPSK	100	0	18.42	18.50	18.47				
20	HQAM	1	0	18.41	18.46	18.32				
20	HQAM	1	49	18.59	18.41	18.40	19	1		
20	HQAM	1	99	18.41	18.32	18.40				
20	HQAM	50	24	17.41	17.51	17.38				
20	HQAM	50	50	17.47	17.40	17.39				
20	HQAM	50	50	17.40	17.40	17.48	18	2		
20	HQAM	100	0	17.48	17.52	17.37				
20	8QAM	1	0	17.41	17.51	17.37				
20	8QAM	1	49	17.59	17.48	17.43				
20	8QAM	1	99	17.37	17.44	17.40	18	2		
20	8QAM	50	0	16.40	16.52	16.48				
20	8QAM	50	24	16.00	16.38	16.43				
20	8QAM	50	50	16.44	16.40	16.42				
20	8QAM	100	0	16.40	16.51	16.37	17	3		
20	25QAM	1	0	18.11	18.13	18.00				
20	25QAM	1	49	18.09	18.07	18.10				
20	25QAM	1	99	18.03	18.03	18.02				
20	25QAM	50	0	18.07	18.06	18.11	19	1		
20	25QAM	50	24	18.13	18.07	18.14				
20	25QAM	50	50	18.17	18.09	18.09				
20	25QAM	100	0	18.12	18.23	18.15				
Channel										
Frequency (MHz)				42196	42596	43016	Tune-up Int. (dBm)	MPR (dB)		
3473.5				3503	3542.5	3582				
15	QPSK	1	0	19.18	19.53	19.33	20	0		
15	QPSK	1	47	19.36	19.39	19.40				
15	QPSK	1	74	19.37	19.47	19.49				
15	QPSK	36	0	18.49	18.49	18.47				
15	QPSK	36	20	18.33	18.48	18.36	19	1		
15	QPSK	36	50	18.38	18.44	18.38				
15	QPSK	75	0	18.27	18.38	18.42				
15	HQAM	1	0	18.31	18.40	18.29				
15	HQAM	1	47	18.31	18.28	18.27	19	1		
15	HQAM	1	74	18.27	18.29	18.30				
15	HQAM	36	0	17.28	17.45	17.33				
15	HQAM	36	20	17.28	17.33	17.27				
15	HQAM	36	50	17.33	17.42	17.35	18	2		
15	HQAM	75	0	17.33	17.44	17.29				
15	8QAM	1	0	17.28	17.40	17.28				
15	8QAM	1	27	17.38	17.44	17.34				
15	HQAM	1	74	17.34	17.35	17.38	18	2		
15	8QAM	36	0	16.38	16.43	16.45				
15	8QAM	36	20	16.39	16.29	16.29				
15	8QAM	36	50	16.29	16.29	16.29				
15	8QAM	75	0	16.20	16.44	16.25	17	3		
15	25QAM	1	0	18.07	18.01	17.88				
15	25QAM	1	47	18.03	17.85	17.85				
15	25QAM	1	74	17.92	18.00	17.87				
15	25QAM	36	0	17.87	18.17	18.07	19	1		
15	25QAM	36	20	18.04	18.02	18.10				
15	25QAM	36	50	18.04	18.00	18.04				
15	25QAM	75	0	18.02	18.10	18.00				
Channel										
Frequency (MHz)				421140	42690	43090	Tune-up Int. (dBm)	MPR (dB)		
3473.5				3545	3585	3624.5				
10	QPSK	1	0	19.29	19.44	19.37	20	0		
10	QPSK	1	25	19.42	19.44	19.32				
10	QPSK	1	49	19.29	19.48	19.43				
10	QPSK	25	0	18.40	18.50	18.40				
10	QPSK	25	12	18.31	18.42	18.32	19	1		
10	QPSK	25	25	18.29	18.48	18.34				
10	QPSK	50	0	18.32	18.38	18.30				
10	HQAM	1	0	18.30	18.39	18.21				
10	HQAM	1	25	18.29	18.28	18.28	19	1		
10	HQAM	1	49	18.28	18.38	18.32				
10	HQAM	25	0	17.33	17.44	17.24				
10	HQAM	25	12	17.28	17.31	17.26				
10	HQAM	25	25	17.30	17.35	17.28	18	2		
10	HQAM	50	0	17.41	17.39	17.22				
10	8QAM	1	0	17.33	17.39	17.26				
10	8QAM	1	25	17.28	17.34	17.28				
10	8QAM	1	49	17.26	17.39	17.27	18	2		
10	8QAM	25	0	16.30	16.40	16.40				
10	8QAM	25	12	16.43	16.33	16.37				
10	8QAM	25	25	16.36	16.26	16.28				
10	8QAM	50	0	16.34	16.45	16.25	17	3		
10	25QAM	1	0	18.08	18.02	17.94				
10	25QAM	1	25	18.00	17.95	18.08				
10	25QAM	1	49	17.95	17.96	17.88				
10	25QAM	25	0	17.96	18.12	17.87	19	1		
10	25QAM	25	12	18.03	17.99	18.00				
10	25QAM	25	25	18.04	18.02	17.94				
10	25QAM	50	0	18.08	18.00	18.05				
Channel										
Frequency (MHz)				42115	42695	43095	Tune-up Int. (dBm)	MPR (dB)		
3473.5				3545.5	3585.5	3625.5				
5	QPSK	1	0	19.18	19.54	19.36	20	0		
5	QPSK	1	12	19.40	19.42	19.37				
5	QPSK	1	24	19.36	19.50	19.45				
5	QPSK	12	0	18.48	18.56	18.48				
5	QPSK	12	7	18.34	18.48	18.36	19	1		
5	QPSK	12	13	18.31	18.42	18.37				
5	QPSK	25	0	18.36	18.44	18.41				
5	HQAM	1	0	18.35	18.39	18.27				
5	HQAM	1	12	18.33	18.38	18.35	19	1		
5	HQAM	1	24	18.26	18.20	18.05				
5	HQAM	12	0	17.35	17.45	17.29				
5	HQAM	12	7	17.41	17.34	17.33				
5	HQAM	12	13	17.34	17.40	17.41	18	2		
5	HQAM	25	0	17.41	17.45	17.32				
5	HQAM	1	0	17.35	17.46	17.32				
5	HQAM	1	12	17.33	17.41	17.38				
5	8QAM	1	24	17.30	17.38	17.37	18	2		
5	8QAM	12	0	16.33	16.40	16.43				
5	8QAM	12	7	16.44	16.32	16.37				
5	8QAM	12	13	16.38	16.34	16.35				
5	8QAM	25	0	16.35	16.45	16.30	17	3		
5	25QAM	1	0	18.06	18.08	17.95				
5	25QAM	1	12	18.02	18.00	18.04				
5	25QAM	1	24	17.96	17.88	17.88				
5	25QAM	12	0	18.01	18.14	18.05	19	1		
5	25QAM	12	7	18.07	18.00	18.09				
5	25QAM	12	13	18.12	18.00	18.03				
5	25QAM	25	0	18.05	18.17	18.09				

Band 42 FCC Part96 Ant8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				43190	43540	43890			
20	QPSK	1	0	19.13	19.55	19.28	20	0	
20	QPSK	1	49	19.40	19.38	19.31			
20	QPSK	1	99	19.31	19.44	19.38			
20	QPSK	50	0	18.45	18.54	18.42			
20	QPSK	50	24	18.35	18.49	18.33	19	1	
20	QPSK	50	73	18.26	18.37	18.27			
20	QPSK	100	0	18.28	18.28	18.28			
20	16QAM	1	0	18.30	18.40	18.30			
20	16QAM	1	49	18.33	18.33	18.34	19	1	
20	16QAM	1	99	18.26	18.18	18.30			
20	16QAM	50	0	17.34	17.41	17.27			
20	16QAM	50	24	17.33	17.43	17.27			
20	16QAM	100	0	17.37	17.40	17.28	18	2	
20	16QAM	100	24	17.35	17.46	17.28			
20	16QAM	1	49	17.28	17.42	17.30			
20	16QAM	1	99	17.21	17.33	17.33			
20	64QAM	50	0	16.32	16.43	16.35	18	2	
20	64QAM	50	24	16.37	16.30	16.38			
20	64QAM	100	0	16.37	16.30	16.28			
20	64QAM	100	0	16.30	16.41	16.28			
20	256QAM	1	0	18.00	18.03	17.99	17	3	
20	256QAM	1	49	18.00	17.97	17.96			
20	256QAM	1	99	17.95	17.92	17.90			
20	256QAM	50	0	17.98	17.98	17.97			
20	256QAM	50	24	18.01	17.95	18.00	19	1	
20	256QAM	50	73	18.07	18.03	18.02			
20	256QAM	100	0	18.03	18.03	18.03			
Channel				43165	43160	43161			
Frequency (MHz)				43165	43160	43161 <th>Tune-up Int. (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up Int. (dBm)	MPR (dB)	
10	QPSK	1	0	19.03	19.44	19.26	20	0	
10	QPSK	1	37	19.27	19.34	19.26			
10	QPSK	1	74	19.28	19.34	19.37			
10	QPSK	25	0	18.35	18.42	18.35			
10	QPSK	36	20	18.24	18.33	18.24	19	1	
10	QPSK	36	56	18.24	18.33	18.23			
10	QPSK	75	0	18.19	18.23	18.19			
10	16QAM	1	0	18.19	18.33	18.21			
10	16QAM	1	37	18.18	18.17	18.13	19	1	
10	16QAM	1	74	18.20	18.17	18.18			
10	16QAM	36	0	17.21	17.38	17.28			
10	16QAM	36	36	17.29	17.29	17.29			
10	16QAM	36	39	17.28	17.52	17.28	18	2	
10	16QAM	36	74	17.27	17.52	17.27			
10	16QAM	75	0	17.12	17.35	17.10			
10	64QAM	1	0	17.26	17.36	17.27			
10	64QAM	1	37	17.27	17.36	17.27	18	2	
10	64QAM	1	74	17.24	17.31	17.24			
10	64QAM	36	0	16.22	16.32	16.22			
10	64QAM	36	20	16.30	16.20	16.19			
10	64QAM	75	0	16.14	16.24	16.11	17	3	
10	64QAM	75	0	16.14	16.24	16.11			
10	256QAM	1	0	17.93	17.80	17.85			
10	256QAM	1	74	17.81	17.87	17.81			
10	256QAM	1	99	17.84	17.85	17.85	19	1	
10	256QAM	36	20	17.98	17.91	17.94			
10	256QAM	36	59	17.98	17.92	17.92			
10	256QAM	75	0	17.93	17.83	17.97			
Channel <td>43140</td> <td>43140</td> <td>43140</td> <td>Tune-up Int. (dBm)</td>				43140	43140	43140	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				43140	43140	43140			
10	QPSK	1	0	19.09	19.37	19.26	20	0	
10	QPSK	1	25	19.33	19.38	19.24			
10	QPSK	1	49	19.34	19.31	19.35			
10	QPSK	25	0	18.34	18.51	18.35			
10	QPSK	25	12	18.18	18.32	18.20	19	1	
10	QPSK	25	25	18.21	18.31	18.23			
10	QPSK	50	0	18.26	18.28	18.30			
10	16QAM	1	0	18.25	18.30	18.29			
10	16QAM	1	25	18.16	18.22	18.19	19	1	
10	16QAM	1	49	18.23	18.18	18.18			
10	16QAM	25	0	17.25	17.32	17.12			
10	16QAM	25	12	17.28	17.17	17.20			
10	16QAM	25	12	17.25	17.25	17.29	18	2	
10	16QAM	25	25	17.34	17.23	17.28			
10	64QAM	1	0	17.25	17.33	17.11			
10	64QAM	1	25	17.13	17.22	17.29			
10	64QAM	25	0	17.20	17.24	17.22	18	2	
10	64QAM	25	0	16.20	16.36	16.27			
10	64QAM	25	12	16.30	16.23	16.24			
10	64QAM	25	49	16.29	16.30	16.29			
10	64QAM	50	0	16.29	16.23	16.15	17	3	
10	64QAM	50	0	16.29	16.23	16.15			
10	256QAM	1	0	17.93	17.80	17.86			
10	256QAM	1	25	17.91	17.85	17.92			
10	256QAM	1	49	17.83	17.87	17.85	19	1	
10	256QAM	25	12	17.85	17.81	17.86			
10	256QAM	25	12	17.89	17.88	17.97			
10	256QAM	25	25	17.95	17.88	17.97			
Channel <td>43115</td> <td>43140</td> <td>43169</td> <td>Tune-up Int. (dBm)</td>				43115	43140	43169	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				43115	43140	43169			
5	QPSK	1	0	19.09	19.48	19.26	20	0	
5	QPSK	1	12	19.29	19.36	19.31			
5	QPSK	1	24	19.23	19.33	19.33			
5	QPSK	12	0	18.34	18.40	18.36			
5	QPSK	12	7	18.26	18.41	18.27	19	1	
5	QPSK	13	13	18.19	18.17	18.27			
5	QPSK	25	0	18.26	18.16	18.36			
5	16QAM	1	0	18.20	18.32	18.21			
5	16QAM	1	12	18.19	18.19	18.23	19	1	
5	16QAM	1	24	18.26	18.15	18.23			
5	16QAM	12	0	17.20	17.25	17.22			
5	16QAM	12	7	17.29	17.25	17.28			
5	16QAM	12	13	17.20	17.33	17.33	18	2	
5	64QAM	1	0	17.21	17.31	17.24			
5	64QAM	1	12	17.30	17.39	17.28			
5	64QAM	1	12	17.23	17.35	17.30			
5	64QAM	12	24	17.24	17.31	17.23	18	2	
5	64QAM	12	0	16.25	16.33	16.34			
5	64QAM	12	12	16.29	16.29	16.34			
5	64QAM	12	13	16.30	16.30	16.27			
5	64QAM	25	0	16.20	16.37	16.17	19	1	
5	64QAM	25	0	16.20	16.37	16.17			
5	256QAM	1	0	17.91	17.84	17.83			
5	256QAM	1	24	17.89	17.81	17.84			
5	256QAM	1	9	17.88	18.07	17.86	19	1	
5	256QAM	12	7	18.01	17.95	17.96			
5	256QAM	12	13	18.02	17.95	17.91			
5	256QAM	25	0	17.93	17.89	17.93			



Band 43 for FCC Ant8														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)						
Channel														
Frequency (MHz)														
43690 44090 44490														
20	QPSK	1	0	19.64	19.65	19.59	20	0						
20	QPSK	1	49	19.48	19.58	19.54								
20	QPSK	1	99	19.34	19.32	19.40								
20	QPSK	50	0	18.26	18.32	18.22								
20	QPSK	50	24	18.14	18.24	18.18	19	1						
20	QPSK	50	50	18.06	18.26	18.18								
20	QPSK	100	0	18.11	18.23	18.21								
20	HQAM	1	0	18.18	18.30	18.23								
20	HQAM	1	49	18.33	18.32	18.22	19	1						
20	HQAM	1	99	18.19	18.19	18.18								
20	HQAM	50	24	17.51	17.50	17.26								
20	HQAM	50	50	17.51	17.50	17.25								
20	HQAM	50	50	17.43	17.41	17.25	18	2						
20	HQAM	100	0	17.28	17.28	17.45								
20	HQAM	100	0	17.21	17.25	17.20								
20	HQAM	1	49	17.26	17.31	17.25								
20	HQAM	1	99	17.35	17.30	17.30	17	3						
20	HQAM	50	0	16.30	16.34	16.31								
20	HQAM	50	24	16.29	16.30	16.29								
20	HQAM	50	50	16.27	16.30	16.25								
20	HQAM	100	0	16.16	16.26	16.13	19	1						
20	25SQAM	1	0	16.13	16.27	16.15								
20	25SQAM	1	49	16.14	16.30	16.23								
20	25SQAM	1	99	16.22	16.21	16.14								
20	25SQAM	50	0	16.07	16.30	16.27	19	1						
20	25SQAM	50	24	16.24	16.21	16.30								
20	25SQAM	50	50	16.21	16.23	16.25								
20	25SQAM	100	0	16.14	16.28	16.18								
Channel														
Frequency (MHz)														
43690 44090 44515														
15	QPSK	1	0	19.38	19.40	19.33	20	0						
15	QPSK	1	47	19.42	19.50	19.47								
15	QPSK	1	74	19.38	19.46	19.36								
15	QPSK	36	0	18.20	18.25	18.16								
15	QPSK	36	20	18.08	18.17	18.13	19	1						
15	QPSK	36	36	18.18	18.17	18.16								
15	QPSK	75	0	18.04	18.17	18.16								
15	HQAM	1	0	18.12	18.24	18.17								
15	HQAM	1	47	18.18	18.17	18.16	19	1						
15	HQAM	1	74	18.13	18.13	18.11								
15	HQAM	36	0	17.18	17.30	17.19								
15	HQAM	36	20	17.25	17.27	17.20								
15	HQAM	36	36	17.28	17.26	17.20	18	2						
15	HQAM	75	0	17.14	17.20	17.12								
15	HQAM	1	0	17.16	17.30	17.15								
15	HQAM	1	27	17.19	17.20	17.18								
15	HQAM	1	74	17.19	17.25	17.18	18	2						
15	HQAM	36	0	16.24	16.35	16.25								
15	HQAM	36	20	16.23	16.14	16.23								
15	HQAM	36	36	16.20	16.15	16.05								
15	HQAM	75	0	16.10	16.15	16.05	17	3						
15	25SQAM	1	0	16.07	16.22	16.09								
15	25SQAM	1	47	16.08	16.15	16.17								
15	25SQAM	1	74	16.16	16.14	16.08								
15	25SQAM	36	0	16.21	16.27	16.21	19	1						
15	25SQAM	36	20	16.19	16.15	16.25								
15	25SQAM	36	36	16.16	16.17	16.20								
15	25SQAM	75	0	16.10	16.16	16.13								
Channel														
Frequency (MHz)														
43690 44090 44590														
10	QPSK	1	0	19.37	19.40	19.37	20	0						
10	QPSK	1	25	19.43	19.49	19.40								
10	QPSK	1	49	19.39	19.40	19.38								
10	QPSK	25	0	18.16	18.20	18.16								
10	QPSK	25	12	18.08	18.18	18.11	19	1						
10	QPSK	25	25	18.11	18.20	18.12								
10	QPSK	50	0	18.06	18.15	18.16								
10	HQAM	1	0	18.12	18.23	18.17								
10	HQAM	1	25	18.17	18.16	18.16	19	1						
10	HQAM	1	49	18.13	18.12	18.12								
10	HQAM	25	0	17.16	17.29	17.21								
10	HQAM	25	12	17.26	17.42	17.20								
10	HQAM	25	25	17.26	17.25	17.18	18	2						
10	HQAM	50	0	17.14	17.19	17.11								
10	HQAM	1	0	17.16	17.29	17.14								
10	HQAM	1	25	17.21	17.24	17.19								
10	HQAM	1	49	17.18	17.25	17.24	18	2						
10	HQAM	25	0	16.23	16.26	16.25								
10	HQAM	25	12	16.22	16.14	16.22								
10	HQAM	25	25	16.21	16.14	16.18								
10	HQAM	50	0	16.11	16.20	16.08	17	3						
10	25SQAM	1	0	16.07	16.21	16.09								
10	25SQAM	1	25	16.06	16.11	16.17								
10	25SQAM	1	49	16.15	16.14	16.08								
10	25SQAM	25	0	16.22	16.20	16.21	19	1						
10	25SQAM	25	12	16.20	16.14	16.25								
10	25SQAM	25	25	16.19	16.14	16.26								
10	25SQAM	50	0	16.10	16.19	16.16								
10	25SQAM	25	25	16.15	16.17	16.19	19	1						
10	25SQAM	50	0	16.08	16.19	16.13								
Channel														
Frequency (MHz)														
3692.5 3693 3693.5 3697.5														
5	QPSK	1	0	19.68	19.60	19.54	20	0						
5	QPSK	1	12	19.62	19.50	19.47								
5	QPSK	1	24	19.37	19.45	19.36								
5	QPSK	12	0	18.20	18.48	18.19								
5	QPSK	12	7	18.08	18.18	18.11	19	1						
5	QPSK	12	13	18.00	18.20	18.13								
5	QPSK	26	0	16.08	16.16	16.16								
5	HQAM	1	0	18.12	18.23	18.17								
5	HQAM	1	12	18.18	18.18	18.17	19	1						
5	HQAM	1	24	18.13	18.12	18.11								
5	HQAM	12	0	17.17	17.29	17.21								
5	HQAM	12	7	17.26	17.14	17.19								
5	HQAM	12	13	17.27	17.25	17.19	18	2						
5	HQAM	26	0	17.13	17.20	17.13								
5	HQAM	1	0	17.15	17.26	17.13								
5	HQAM	1	12	17.21	17.20	17.20								
5	HQAM	1	24	17.17	17.24	17.23	18	2						
5	HQAM	12	0	16.25	16.26	16.24								



Reduced Power Mode for DS12 Simultaneous

GSM850 A/G						
GSM850 A/G		Rx/Tx Average Power (dBm)			Frame-Average Power (dBm)	
Tx Channel		100	100	201	Limit	Limit
Frequency (MHz)		894.2	894.4	894.6	894.2	894.6
GSM 1 Tx rate		32.61	32.65	32.67	33.00	33.61
GPRS 1 Tx rate		31.90	32.04	32.11	33.00	33.10
GPRS 2 Tx rate		29.18	29.08	29.40	30.00	29.18
GPRS 3 Tx rate		28.00	28.00	28.18	28.00	28.18
GPRS 4 Tx rate		25.99	26.00	25.97	27.00	26.00
EDGE 1 Tx rate		25.98	25.72	25.42	26.00	18.36
EDGE 2 Tx rate		23.76	23.07	23.72	24.00	17.76
EDGE 3 Tx rate		22.54	22.07	22.54	23.00	18.28
EDGE 4 Tx rate		22.46	22.05	22.46	21.00	17.46

WCDMA V. A/G			
Band		WCDMA V. A/G	
Tx Channel		8152	4033
Tx Channel		4037	4037
Frequency (MHz)		826.4	826.4
SOPF Rule 95		23.08	24.78
SOPF Rule 95		23.92	24.00
SOPF Rule 6		22.60	23.15
SOPF Rule 6		22.92	23.11
SOPF Rule 6		22.34	22.75
SOPF Rule 6		22.42	22.21
SOPF Rule 6		22.00	23.08
SOPF Rule 6		22.61	23.00
SOPF Rule 6		22.34	22.01
SOPF Rule 6		22.30	22.48
SOPF Rule 6		22.84	23.11
SOPF Rule 6		21.01	20.00
SOPF Rule 6		21.00	20.00
SOPF Rule 6		20.73	21.08
SOPF Rule 6		22.89	23.12

CDMA2000 1X									
CDMA2000 1X									
TX Channel	Sect-Average Power (dBm)			TxPower Limit	Frame-Average Power (dBm)			TxPower Limit	
Frequency (MHz)	189.2	189.4	189.6	(dBm)	189.2	189.4	189.6	(dBm)	
CDMA 1 Tx-Mid	32.74	32.78	32.83	33.10	23.74	23.78	23.83	24.10	
OPRS 1 Tx-Mid	32.40	32.71	32.80	33.10	23.47	23.71	23.80	24.10	
OPRS 2 Tx-Mid	25.55	25.49	25.41	30.10	23.55	23.49	23.41	24.10	
OPRS 3 Tx-Mid	27.81	28.52	28.15	28.40	23.55	23.77	23.89	24.14	
OPRS 4 Tx-Mid	26.14	26.54	26.05	27.10	23.34	23.54	23.65	24.10	
EDGE 1 Tx-Mid	25.75	25.91	25.84	27.00	18.75	18.91	18.84	18.90	
EDGE 2 Tx-Mid	24.07	24.21	23.85	25.50	13.07	13.21	12.85	13.00	
EDGE 3 Tx-Mid	22.84	22.57	22.74	24.00	18.58	18.71	18.48	18.74	
EDGE 4 Tx-Mid	20.84	20.69	20.81	22.00	17.84	17.69	17.81	18.00	
CDMA2000 1X									
TX Channel	Sect-Average Power (dBm)			TxPower Limit	Frame-Average Power (dBm)			TxPower Limit	
Frequency (MHz)	1890.2	1890	1890.8	(dBm)	1890.2	1890	1890.8	(dBm)	
CDMA 1 Tx-Mid	25.75	25.50	25.85	27.00	18.75	18.68	18.85	18.90	
OPRS 1 Tx-Mid	22.24	22.46	22.29	24.00	16.24	16.46	16.29	16.50	
OPRS 2 Tx-Mid	21.07	21.08	21.12	22.30	15.81	15.82	15.86	15.94	
OPRS 3 Tx-Mid	19.23	19.25	19.26	21.00	16.23	16.25	16.26	16.50	
EDGE 1 Tx-Mid	15.56	15.61	15.60	16.00	14.56	14.61	14.60	15.00	
EDGE 2 Tx-Mid	22.80	22.19	22.82	23.50	16.80	16.19	16.82	17.50	
EDGE 3 Tx-Mid	20.75	21.02	20.97	22.00	15.44	15.79	15.57	15.74	
EDGE 4 Tx-Mid	18.43	18.73	18.54	20.00	15.43	15.74	15.54	15.70	
WCDMA 3.1									
WCDMA 3.1									
TX Channel	Sect-Average Power (dBm)			TxPower Limit	Frame-Average Power (dBm)			TxPower Limit	
Frequency (MHz)	1892.4	1890	1897.6	(dBm)	1712.4	1732.6	1752.6	(dBm)	
CDMA 1 Tx-Mid	14.81	15.01	14.72	16.20	15.67	15.96	15.80	17.00	
OPRS 1 Tx-Mid	15.00	15.01	15.78	16.20	15.86	16.05	15.85	17.00	
OPRS 2 Tx-Mid	13.90	14.10	14.00	15.20	14.87	15.16	15.17	16.00	
OPRS 3 Tx-Mid	13.90	14.15	14.14	15.20	14.85	15.00	15.00	16.00	
OPRS 4 Tx-Mid	13.49	13.67	13.55	14.70	14.41	14.71	14.53	15.50	
EDGE 1 Tx-Mid	13.56	13.46	13.42	14.70	14.40	14.56	14.56	15.00	
EDGE 2 Tx-Mid	13.84	14.14	14.05	15.20	14.83	14.80	14.93	16.00	
EDGE 3 Tx-Mid	13.35	13.56	13.55	14.70	14.36	14.52	14.52	15.00	
EDGE 4 Tx-Mid	13.40	13.57	13.36	14.70	14.28	14.54	14.39	15.50	
OPRS 1 Tx-Mid	13.88	14.08	13.92	15.20	13.90	13.91	14.00	15.00	
OPRS 2 Tx-Mid	11.88	12.21	11.88	13.20	13.21	13.19	13.25	14.00	
OPRS 3 Tx-Mid	12.68	13.00	12.81	14.20	14.64	14.13	14.56	15.00	
OPRS 4 Tx-Mid	11.73	11.99	11.89	13.20	13.05	13.08	13.05	14.00	
EDGE 1 Tx-Mid	13.85	14.08	14.03	15.20	13.01	13.02	13.09	16.00	

GSM1900 Aircel									
Tx Channel		Base Average Power (dBm)			Tx Power		Frame Average Power (dBm)		
Rx Channel		812	861	810	Link	(dBm)	812	861	810
Frequency (MHz)		1893.2	1900	1893.8	(dBm)		1893.2	1900	1893.8
GSM 1 Tx slot		20.31	20.34	20.40	30.00	20.31	20.34	20.40	21.00
OPMS 1 Tx slot		20.34	20.47	20.43	30.00	20.34	20.47	20.43	21.00
OPMS 2 Tx slot		20.66	20.84	20.72	27.00	19.66	19.84	19.72	21.00
OPMS 3 Tx slot		24.42	24.30	24.48	25.00	20.18	20.09	20.22	21.24
OPMS 4 Tx slot		21.64	21.02	21.60	23.00	14.64	15.00	14.80	20.00
EDGE 1 Tx slot		23.82	23.87	23.88	25.00	14.82	14.87	14.83	16.00
EDGE 2 Tx slot		22.10	22.16	22.13	23.00	16.10	16.16	16.13	17.00
EDGE 3 Tx slot		20.00	20.06	20.05	22.00	14.64	16.72	16.60	17.74
EDGE 4 Tx slot		18.75	18.83	18.81	20.00	11.75	13.83	13.81	17.00
WCDMA 8 Aircel									
Base		WCDMA 8 Aircel			Tx Power		WCDMA 14 Aircel		
Rx Channel		9802	9800	9808	Link	(dBm)	9812	9810	9818
Rx Channel		9802	9800	9808	Link	(dBm)	9812	9810	9818
Frequency (MHz)		112.24	112.00	112.07	(dBm)		112.14	112.00	112.12
SCPP Rel 99		23.86	23.00	23.86	25.00	23.81	24.00	23.90	25.00
SCPP Rel 99		23.88	24.00	23.98	25.00	23.92	24.10	24.08	25.00
SCPP Rel 6		22.87	22.50	22.70	24.00	23.00	23.22	23.00	24.00
SCPP Rel 6		22.92	22.80	22.78	24.00	23.08	23.02	23.01	24.00
SCPP Rel 6		22.41	22.44	22.43	23.00	22.48	22.20	22.34	23.00
SCPP Rel 6		22.30	22.50	22.17	23.00	22.88	22.82	22.40	23.00
SCPP Rel 6		22.06	22.88	22.84	24.00	23.28	23.84	22.90	24.00
SCPP Rel 6		22.75	22.81	22.74	24.00	23.97	22.98	22.73	24.00
SCPP Rel 6		22.44	22.50	22.21	23.00	22.82	22.58	22.29	23.00
SCPP Rel 6		22.37	22.23	22.10	23.00	22.42	22.28	22.12	23.00
SCPP Rel 6		22.86	22.88	22.78	24.00	22.95	22.86	22.72	24.00
SCPP Rel 6		20.77	20.94	20.80	22.00	20.88	21.00	20.70	22.00
SCPP Rel 6		21.74	21.51	21.63	23.00	21.02	22.00	21.74	23.00
SCPP Rel 6		20.86	20.81	20.80	22.00	20.80	20.86	20.81	22.00
SCPP Rel 6		22.69	22.86	22.78	24.00	22.83	23.03	22.83	24.00



Band 5 Ant0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turnup time (ms)	MPE (dB)						
Channel														
800 806.5 844														
10	QPSK	1	0	22.60	22.73	22.68	24	0						
10	QPSK	1	25	22.51	22.58	22.54								
10	QPSK	1	49	22.50	22.64	22.55								
10	QPSK	25	0	21.69	21.72	21.62								
10	QPSK	25	12	21.44	21.53	21.44	23	1						
10	QPSK	25	25	21.53	21.66	21.61								
10	QPSK	50	0	21.61	21.65	21.59								
10	16QAM	1	0	21.59	21.67	21.61								
10	16QAM	1	25	21.41	21.52	21.38	23	1						
10	16QAM	1	49	21.54	21.65	21.45								
10	16QAM	25	0	20.47	20.55	20.43								
10	16QAM	25	12	20.35	20.49	20.35								
10	16QAM	25	25	20.50	20.66	20.53	22	2						
10	16QAM	50	0	20.54	20.65	20.59								
10	64QAM	1	0	20.51	20.59	20.54								
10	64QAM	1	25	20.45	20.51	20.47								
10	64QAM	1	49	20.55	20.65	20.53	21	3						
10	64QAM	25	0	19.47	19.52	19.40								
10	64QAM	25	12	19.52	19.63	19.59								
10	64QAM	25	25	19.44	19.49	19.35								
10	64QAM	50	0	19.50	19.62	19.54	19	5						
10	256QAM	1	0	17.46	17.54	17.44								
10	256QAM	1	25	17.44	17.45	17.40								
10	256QAM	1	49	17.49	17.62	17.52								
10	256QAM	25	0	17.40	17.50	17.44								
10	256QAM	25	12	17.50	17.63	17.50								
10	256QAM	25	25	17.50	17.56	17.44								
10	256QAM	50	0	17.61	17.67	17.54	19	5						
Channel														
20405 20525 20605														
5	QPSK	1	0	22.54	22.66	22.54					24	0		
5	QPSK	1	12	22.39	22.48	22.44								
5	QPSK	1	24	22.45	22.54	22.47								
5	QPSK	12	0	21.65	21.68	21.55								
5	QPSK	12	7	21.35	21.44	21.39	23	1						
5	QPSK	12	13	21.45	21.52	21.51								
5	QPSK	25	0	21.60	21.54	21.48								
5	16QAM	1	0	21.53	21.56	21.52								
5	16QAM	1	12	21.31	21.49	21.32	23	1						
5	16QAM	1	24	21.47	21.47	21.31								
5	16QAM	12	0	20.43	20.51	20.37								
5	16QAM	12	7	20.25	20.36	20.21								
5	16QAM	12	13	20.54	20.66	20.49	22	2						
5	16QAM	25	0	20.48	20.58	20.46								
5	64QAM	1	0	20.38	20.54	20.48								
5	64QAM	1	12	20.31	20.45	20.34								
5	64QAM	1	24	20.43	20.52	20.47	21	3						
5	64QAM	12	0	19.38	19.40	19.25								
5	64QAM	12	13	19.41	19.53	19.50								
5	64QAM	12	13	19.39	19.44	19.24								
5	64QAM	25	0	19.38	19.52	19.39	19	5						
5	256QAM	1	0	17.43	17.49	17.38								
5	256QAM	1	12	17.40	17.47	17.31								
5	256QAM	1	24	17.45	17.52	17.45								
5	256QAM	12	0	17.40	17.56	17.38	19	5						
5	256QAM	12	7	17.44	17.50	17.40								
5	256QAM	12	13	17.45	17.50	17.35								
5	256QAM	25	0	17.44	17.50	17.40								
Channel														
20415 20525 20605														
5	QPSK	1	0	22.51	22.63	22.54	24	0						
3	QPSK	1	8	22.42	22.53	22.41								
3	QPSK	1	14	22.38	22.60	22.51								
3	QPSK	8	0	21.66	21.68	21.55								
3	QPSK	8	7	21.39	21.43	21.34	23	1						
3	QPSK	8	7	21.40	21.55	21.57								
3	16QAM	1	0	21.54	21.57	21.48								
3	16QAM	1	0	21.49	21.55	21.52								
3	16QAM	1	8	21.34	21.41	21.31	23	1						
3	16QAM	1	14	21.42	21.51	21.39								
3	16QAM	8	0	20.41	20.49	20.39								
3	16QAM	8	4	20.21	20.40	20.21								
3	16QAM	8	7	20.32	20.51	20.47	22	2						
3	64QAM	15	0	20.48	20.61	20.50								
3	64QAM	1	0	20.47	20.44	20.45								
3	64QAM	1	8	20.33	20.40	20.33								
3	64QAM	1	14	20.43	20.62	20.43	21	3						
3	64QAM	8	0	19.35	19.40	19.33								
3	64QAM	8	4	19.38	19.50	19.33								
3	64QAM	8	7	19.38	19.39	19.23								
3	64QAM	15	0	19.37	19.54	19.46	19	5						
3	256QAM	1	0	17.38	17.41	17.34								
3	256QAM	1	8	17.37	17.38	17.27								
3	256QAM	1	14	17.40	17.57	17.37								
3	256QAM	8	0	17.26	17.41	17.25	19	5						
3	256QAM	8	4	17.39	17.59	17.47								
3	256QAM	8	7	17.40	17.52	17.40								
3	256QAM	15	0	17.47	17.60	17.46								
Channel														
20407 20525 20605														
1.4	QPSK	1	0	22.54	22.70	22.57	24	0						
1.4	QPSK	1	3	22.40	22.50	22.49								
1.4	QPSK	1	5	22.35	22.50	22.41								
1.4	QPSK	3	0	22.64	22.67	22.48								
1.4	QPSK	3	1	22.35	22.43	22.39	23	1						
1.4	QPSK	3	3	22.41	22.52	22.48								
1.4	QPSK	3	1	21.48	21.56	21.43								
1.4	16QAM	1	0	21.48	21.52	21.50								
1.4	16QAM	1	3	21.32	21.45	21.29	23	1						
1.4	16QAM	1	5	21.48	21.52	21.40								
1.4	16QAM	3	0	21.37	21.47	21.37								
1.4	16QAM	3	1	21.52	21.42	21.20								
1.4	16QAM	3	3	21.35	21.48	21.43	22	2						
1.4	16QAM	6	0	20.43	20.56	20.49								
1.4	64QAM	1	0	20.37	20.35	20.45								
1.4	64QAM	1	3	20.40	20.40	20.39								
1.4	64QAM	1	5	20.41	20.61	20.39	22	2						
1.4	64QAM	3	0	20.32	20.49	20.32								
1.4	64QAM	3	1	20.48	20.48	20.30								
1.4	64QAM	3	3	20.39	20.40	20.26								
1.4	64QAM	6	0	19.40	19.55	19.46	21	3						
1.4	256QAM	1	0	17.40	17.47	17.35								
1.4	256QAM	1	3	17.40	17.49	17.36								
1.4	256QAM	1	5	17.43	17.49	17.38								
1.4	256QAM	3	0	17.26	17.36	17.41	19	5						
1.4	256QAM	3	1	17.41	17.52	17.45								
1.4	256QAM	3	3	17.44	17.42	17.35								
1.4	256QAM	6	0	17.54	17.57	17.43	19	5						

Band 17 Ant0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPFS (dB)				
Channel												
Frequency (MHz)												
710 711 711												
10	QPSK	1	0	22.85	22.85	22.92	24	0				
10	QPSK	1	24	22.77	22.85	22.92						
10	QPSK	1	48	22.75	22.81	22.88						
10	QPSK	25	0	21.82	21.84	21.84						
10	QPSK	25	12	21.78	21.80	21.83	23	1				
10	QPSK	25	25	21.71	21.80	21.79						
10	QPSK	50	0	21.80	21.85	21.77						
10	16QAM	1	0	20.95	20.92	20.90						
10	16QAM	1	25	21.83	21.90	21.90	23	1				
10	16QAM	1	49	21.83	21.91	21.87						
10	16QAM	25	0	20.81	20.95	20.92						
10	16QAM	25	12	20.71	20.82	20.78						
10	16QAM	25	25	20.79	20.87	20.80	22	2				
10	16QAM	50	0	20.81	20.91	20.82						
10	64QAM	1	0	21.00	21.04	21.00						
10	64QAM	1	25	20.89	20.92	20.90		22	2			
10	64QAM	1	49	20.82	20.91	20.79						
10	64QAM	25	0	19.84	19.78	19.82						
10	64QAM	25	12	19.79	19.86	19.73						
10	64QAM	25	25	19.87	19.71	19.87	21	3				
10	64QAM	50	0	19.75	19.80	19.82						
10	256QAM	1	0	17.89	17.89	17.86						
10	256QAM	1	25	17.85	17.84	17.88		19	5			
10	256QAM	1	49	17.71	17.86	17.78						
10	256QAM	25	0	17.81	17.80	17.86						
10	256QAM	25	12	17.74	17.84	17.75	19	5				
10	256QAM	25	25	17.85	17.79	17.75						
10	256QAM	50	0	17.79	17.83	17.88						
Channel												
Frequency (MHz)												
706.5 710 713.5												
5	QPSK	1	0	22.71	22.85	22.83	24	0				
5	QPSK	1	12	22.70	22.71	22.71						
5	QPSK	1	24	22.68	22.75	22.61						
5	QPSK	12	0	21.76	21.80	21.80						
5	QPSK	12	7	21.67	21.79	21.71	23	1				
5	QPSK	12	13	21.65	21.75	21.69						
5	QPSK	25	0	21.67	21.77	21.64						
5	16QAM	1	0	21.98	21.97	21.92						
5	16QAM	1	12	21.89	21.93	21.84	23	1				
5	16QAM	1	24	21.79	21.80	21.75						
5	16QAM	12	0	20.67	20.91	20.77						
5	16QAM	12	7	20.64	20.70	20.64		22	2			
5	16QAM	12	13	20.71	20.72	20.70						
5	16QAM	25	0	20.75	20.78	20.78						
5	64QAM	1	0	20.90	20.85	20.90	23	2				
5	64QAM	1	12	20.80	20.82	20.84						
5	64QAM	1	24	20.88	20.91	20.89						
5	64QAM	12	0	19.83	19.86	19.81						
5	64QAM	12	7	19.83	19.83	19.84	21	3				
5	64QAM	12	13	19.90	19.92	19.93						
5	64QAM	25	0	19.81	19.78	19.77						
5	256QAM	1	0	17.84	17.82	17.76						
5	256QAM	1	12	17.75	17.85	17.75	19	5				
5	256QAM	1	24	17.88	17.75	17.69						
5	256QAM	12	0	17.76	17.77	17.74						
5	256QAM	12	7	17.80	17.75	17.83						
5	256QAM	12	13	17.87	17.65	17.71	19	5				
5	256QAM	25	0	17.72	17.68	17.76						

Band 26 for FCC Ant0													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPFS (dB)					
Channel													
Frequency (MHz)													
821.5 831.5 841.5													
15	QPSK	1	0	22.58	22.77	22.67	24	0					
15	QPSK	1	37	22.47	22.57	22.52							
15	QPSK	1	74	22.39	22.63	22.54							
15	QPSK	36	0	21.51	21.63	21.60							
15	QPSK	36	20	21.50	21.58	21.50	23	1					
15	QPSK	36	36	21.40	21.54	21.46							
15	QPSK	75	0	21.59	21.67	21.67							
15	16QAM	1	0	21.72	21.80	21.70							
15	16QAM	1	37	21.56	21.71	21.63	23	1					
15	16QAM	1	74	21.55	21.68	21.63							
15	16QAM	36	0	20.49	20.52	20.48							
15	16QAM	36	20	20.68	20.73	20.62		22	2				
15	16QAM	36	39	20.64	20.67	20.67							
15	16QAM	75	0	20.50	20.58	20.52							
15	64QAM	1	0	20.68	20.72	20.69	22	2					
15	64QAM	1	37	20.55	20.64	20.54							
15	64QAM	1	74	20.65	20.70	20.72							
15	64QAM	36	0	19.54	19.65	19.59							
15	64QAM	36	20	19.52	19.74	19.61	21	3					
15	64QAM	36	39	19.54	19.68	19.54							
15	64QAM	75	0	19.50	19.64	19.51							
15	256QAM	1	0	17.46	17.71	17.46							
15	256QAM	1	37	17.56	17.61	17.65	19	5					
15	256QAM	1	74	17.59	17.67	17.67							
15	256QAM	36	0	17.52	17.63	17.57							
15	256QAM	36	20	17.65	17.72	17.65		19	5				
15	256QAM	36	39	17.52	17.65	17.61							
15	256QAM	75	0	17.61	17.68	17.57							
Channel													
Frequency (MHz)													
819 831.5 844													
10	QPSK	1	0	22.49	22.72	22.60	24	0					
10	QPSK	1	25	22.39	22.44	22.43							
10	QPSK	1	49	22.55	22.61	22.49							
10	QPSK	25	0	21.37	21.54	21.57							
10	QPSK	25	12	21.40	21.48	21.41	23	1					
10	QPSK	25	25	21.34	21.48	21.41							
10	QPSK	50	0	21.54	21.59	21.58							
10	16QAM	1	0	21.81	21.88	21.85							
10	16QAM	1	25	21.52	21.67	21.54	23	1					
10	16QAM	1	49	21.44	21.62	21.46							
10	16QAM	25	0	20.42	20.58	20.38							
10	16QAM	25	12	20.64	20.59	20.49		22	2				
10	16QAM	25	25	20.59	20.58	20.57							
10	16QAM	50	0	20.44	20.53	20.46							
10	64QAM	1	0	20.55	20.60	20.51	23	2					
10	64QAM	1	25	20.51	20.55	20.48							
10	64QAM	1	49	20.57	20.65	20.57							
10	64QAM	25	0	19.39	19.58	19.52							
10	64QAM	25	12	19.45	19.59	19.48	21	3					
10	64QAM	25	25	19.53	19.54	19.43							
10	64QAM	50	0	19.41	19.58	19.40							
10	256QAM	1	0	17.57	17.62	17.55							
10	256QAM	1	25	17.52	17.55	17.48	19	5					
10	256QAM	1	49	17.45	17.63	17.44							
10	256QAM	25	0	17.42	17.52	17.48							
10	256QAM	25	12	17.51	17.67	17.52		19	5				
10	256QAM	25	25	17.43	17.52	17.46							
10	256QAM	50	0	17.53	17.60	17.46							
Channel			819.5 831.5 843.5			Tune-up (mHz)	MPFS (dB)						
5	QPSK	1	0	22.47	22.64	22.57	24	0					
5	QPSK	1	12	22.36	22.47	22.48							
5	QPSK	1	24	22.50	22.57	22.49							
5	QPSK	12	0	21.37	21.51	21.46							
5	QPSK	12	7	21.40	21.47	21.45	23	1					
5	QPSK	12	14	21.34	21.48	21.41							
5	QPSK	25	0	21.45	21.61	21.44							
5	16QAM	1	0	21.83	21.88	21.88							
5	16QAM	1	12	21.52	21.66	21.54	23	1					
5	16QAM	1	24	21.47	21.65	21.46							
5	16QAM	12	0	20.37	20.53	20.41							
5	16QAM	12	7	20.59	20.59	20.51		22	2				
5	16QAM	25	0	20.46	20.53	20.42							
5	16QAM	25	7	20.67	20.57	20.57							
5	64QAM	1	0	20.49	20.54	20.46	22	2					
5	64QAM	1	24	20.37	20.48	20.35							
5	64QAM	12	0	19.51	19.63	19.53							
5	64QAM	12	7	19.55	19.59	19.41							
5	64QAM	12	14	19.57	19.61	19.43	21	3					
5	64QAM	25	0	17.48	17.67	17.54							
5	64QAM	25	7	17.45	17.48	17.47							
5	64QAM	25	14	17.58	17.48	17.43							
5	256QAM	1	0	17.42	17.53	17.45	19	5					
5	256QAM	1	7	17.54	17.69	17.51							
5	256QAM	1	14	17.47	17.58	17.47							
Channel			819.5 831.5 843.5			Tune-up (mHz)		MPFS (dB)					
3	QPSK	1	0	22.46	22.64	22.57		24	0				
3	QPSK	1	8	22.33	22.53	22.43							
3	QPSK	1	16	22.57	22.62	22.48							
3	QPSK	8	0	21.47	21.54	21.53							
3	QPSK	8	4	21.46	21.44	21.43	23	1					
3	QPSK	8	8	21.45	21.45	21.45							
3	QPSK	15	0	21.49	21.50	21.49							
3	16QAM	1	0	21.89	21.88	21.88							
3	16QAM	1	8	21.60	21.68	21.58	23	1					
3	16QAM	1	16	21.49	21.57	21.45							
3	16QAM	8	0	20.35	20.59	20.35							
3	16QAM	8	8	20.60	20.48	20.48		22	2				
3	16QAM	7	0	20.57	20.57	20.51							
3	16QAM	15	0	20.44	20.47	20.41							
3	64QAM	1	0	20.53	20.60	20.53	22	2					
3	64QAM	1	8	20.46	20.60	20.44							
3	64QAM	1	16	20.51	20.64	20.57							
3	64QAM	8	0	19.48	19.68	19.52							
3	64QAM	8	4	19.48	19.68	19.57	21	3					
3	64QAM	8	8	19.57	19.61	19.43							
3	64QAM	15	0	19.53	19.63	19.48							
3	64QAM	8	0	17.52	17.59	17.43							
3	256QAM	1	0	17.44	17.59	17.44	19	5					
3	256QAM	1	8	17.51	17.61	17.43							
3	256QAM	8	0	17.39	17.54	17.47							
3	256QAM	8	4	17.53	17.69	17.51		19	5				
3	256QAM	8	8	17.48	17.63	17.43							
3	256QAM	15	0	17.47	17.56	17.54							
Channel			26097 26097 27073			Tune-up (mHz)	MPFS (dB)						
1.4	QPSK	1	0	22.51	22.66	22.62	24	0					
1.4	QPSK	1	0	22.36	22.54	22.46							
1.4	QPSK	1	0	22.49	22.54	22.51							
1.4	QPSK	3	0	22.45	22.54	22.51							
1.4	QPSK	3	0	22.39	22.52	22.42	23	1					
1.4	QPSK	3	0	22.40	22.46	22.46							
1.4	QPSK	3	0	21.55	21.64	21.57							
1.4	16QAM	1	0	21.68	21.69	21.64							
1.4	16QAM	1	0	21.63	21.68	21.64	23	1					
1.4	16QAM	3	0	21.58	21.68	21.58							
1.4	16QAM	3	0	21.58	21.58	21.58							
1.4	16QAM	6	0	20.41	20.45	20.40		22	2				
1.4	16QAM	6	0	20.37	20.59	20.37							
1.4	16QAM	3	0	20.47	20.54	20.49							
1.4	64QAM	1	0	20.53	20.66	20.53	22	2					
1.4	64QAM	3	0	20.57	20.62	20.55							
1.4	64QAM	3	0	20.49	20.62	20.49							
1.4	64QAM	3	0	20.57	20.62	20.48							
1.4	64QAM	6	0	17.54	17.61	17.48	21	3					
1.4	64QAM	6	0	17.51	17.58	17.42							
1.4	64QAM	6	0	17.40	17.43	17.32							
1.4	256QAM	1	0	17.58	17.59	17.58		19	5				
1.4	256QAM	3	0	17.57	17.58	17.58							
1.4	256QAM	6	0	17.51	17.50	17.53							



Band 2 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Max/Ch / Freqs	Power Min/Ch / Freqs	Power Max/Ch / Freqs	Turn-up time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.24	16.23	16.19			
20	QPSK	1	49	16.18	16.22	16.13	17.4	0	
20	QPSK	1	99	16.09	16.20	16.05			
20	QPSK	50	0	16.19	16.23	16.23			
20	QPSK	50	24	16.08	16.17	16.08	17.4	0	
20	QPSK	50	50	16.13	16.19	16.12			
20	QPSK	100	0	16.09	16.23	16.17			
20	QPSK	100	24	16.21	16.26	16.15			
20	16QAM	1	49	16.13	16.20	16.08	17.4	0	
20	16QAM	1	99	16.24	16.26	16.19			
20	16QAM	50	50	16.17	16.21	16.14			
20	16QAM	50	24	16.14	16.24	16.14	17.4	0	
20	16QAM	100	0	16.17	16.21	16.14			
20	16QAM	100	24	16.07	16.16	16.16			
20	64QAM	1	0	16.13	16.20	16.10			
20	64QAM	1	49	16.10	16.16	16.05	17.4	0	
20	64QAM	1	99	16.20	16.26	16.23			
20	64QAM	50	0	16.02	16.16	16.12			
20	64QAM	50	24	16.09	16.21	16.09	17.4	0	
20	64QAM	50	50	16.11	16.15	16.04			
20	64QAM	100	0	16.19	16.26	16.25			
20	64QAM	100	24	16.07	16.16	16.16			
20	256QAM	1	49	15.97	15.93	15.93	17	0.4	
20	256QAM	1	99	16.08	16.11	16.04			
20	256QAM	50	0	15.97	16.07	15.95			
20	256QAM	50	24	16.01	15.94	15.85	17	0.4	
20	256QAM	50	50	15.83	15.98	15.86			
20	256QAM	100	0	15.99	16.01	15.95			
Channel									
Frequency (MHz)									
15	QPSK	1	0	16.17	16.18	16.03			
15	QPSK	1	0	16.14	16.17	16.08			
15	QPSK	1	24	16.12	16.06	16.03	17.4	0	
15	QPSK	1	74	16.06	16.09	16.02			
15	QPSK	36	0	16.14	16.21	16.19			
15	QPSK	36	24	16.03	16.06	16.05	17.4	0	
15	QPSK	36	39	16.09	16.09	16.08			
15	QPSK	75	0	16.06	16.10	16.10			
15	16QAM	1	99	16.18	16.16	16.02	17.4	0	
15	16QAM	1	37	16.05	16.11	15.98			
15	16QAM	1	74	16.07	16.10	16.07			
15	16QAM	36	20	16.09	16.14	16.04	17.4	0	
15	16QAM	36	49	16.07	16.10	16.04			
15	16QAM	75	0	15.94	16.03	15.98			
15	64QAM	1	0	16.06	16.10	15.97	17.4	0	
15	64QAM	1	39	16.11	16.15	16.04			
15	64QAM	1	74	16.01	16.23	16.15			
15	64QAM	36	0	16.00	16.02	16.06	17.4	0	
15	64QAM	36	24	16.09	16.16	16.08			
15	64QAM	36	39	15.99	16.12	16.04			
15	64QAM	75	0	16.16	16.18	16.20			
15	256QAM	1	37	15.93	15.95	15.98	17	0.4	
15	256QAM	1	74	16.01	16.02	15.98			
15	256QAM	36	20	15.89	15.98	15.95			
15	256QAM	36	24	15.98	15.98	15.75	17	0.4	
15	256QAM	36	39	16.14	15.92	16.12			
15	256QAM	75	0	16.05	16.01	16.05			
Channel									
Frequency (MHz)									
10	QPSK	1	0	16.05	16.06	16.05			
10	QPSK	1	25	16.10	16.08	16.01	17.4	0	
10	QPSK	1	49	16.09	16.10	16.02			
10	QPSK	25	13	15.95	16.07	15.96			
10	QPSK	25	25	16.03	16.07	16.08			
10	QPSK	25	39	16.01	16.03	16.11			
10	16QAM	1	0	16.07	16.17	16.08			
10	16QAM	1	25	16.03	16.15	15.98	17.4	0	
10	16QAM	1	49	16.08	16.10	16.06			
10	16QAM	25	0	16.09	16.10	16.13			
10	16QAM	25	12	16.08	16.20	16.03	17.4	0	
10	16QAM	25	12	16.06	16.17	16.07			
10	16QAM	50	0	16.00	16.09	16.08			
10	64QAM	1	0	16.03	16.11	15.99	17.4	0	
10	64QAM	1	0	16.06	16.16	16.06			
10	64QAM	1	49	16.15	16.16	16.20			
10	64QAM	25	0	15.90	16.06	16.06	17.4	0	
10	64QAM	25	0	16.05	16.16	16.07			
10	64QAM	25	25	16.02	16.12	16.03			
10	64QAM	50	0	16.12	16.22	16.16			
10	256QAM	1	0	15.96	16.01	15.97	17	0.4	
10	256QAM	1	25	16.03	15.95	15.83			
10	256QAM	1	49	16.03	16.04	15.96			
10	256QAM	25	0	15.98	15.98	15.77			
10	256QAM	25	12	16.12	15.90	16.11	17	0.4	
10	256QAM	25	25	16.10	16.00	15.83			
10	256QAM	50	0	15.86	16.00	15.95			
Channel									
Frequency (MHz)									
5	QPSK	1	0	16.13	16.19	16.20			
5	QPSK	1	12	16.13	16.19	16.20	17.4	0	
5	QPSK	1	24	16.00	16.14	15.99			
5	QPSK	1	39	16.08	16.20	16.11			
5	QPSK	12	7	16.04	16.00	15.97			
5	QPSK	12	13	16.04	16.09	16.03			
5	QPSK	25	0	16.02	16.13	16.04			
5	16QAM	1	0	16.15	16.18	16.05			
5	16QAM	1	12	16.08	16.15	15.97	17.4	0	
5	16QAM	1	12	16.12	16.14	16.06			
5	16QAM	12	0	16.10	16.11	16.04			
5	16QAM	12	7	16.00	16.13	16.04			
5	16QAM	12	13	16.03	16.17	16.08	17.4	0	
5	16QAM	25	0	15.96	16.08	16.07			
5	64QAM	1	0	16.09	16.16	16.07	17.4	0	
5	64QAM	1	12	16.12	16.14	16.06			
5	64QAM	12	0	16.10	16.19	16.18			
5	64QAM	12	7	16.02	16.19	16.07	17.4	0	
5	64QAM	25	0	16.06	16.08	16.07			
5	64QAM	25	0	16.10	16.19	16.18			
5	64QAM	12	0	15.88	16.04	15.96			
5	64QAM	25	0	16.05	16.13	16.14			
5	256QAM	1	0	16.03	16.08	15.97	17	0.4	
5	256QAM	1	12	16.04	15.95	15.86			
5	256QAM	1	24	16.04	15.96	15.88			
5	256QAM	12	0	15.94	16.01	15.93			
5	256QAM	12	7	16.10	16.14	16.06	17	0.4	
5	256QAM	12	13	16.15	16.00	15.82			
5	256QAM	25	0	15.90	16.01	15.97			
Channel									
Frequency (MHz)									
3	QPSK	1	0	16.13	16.20	16.15	17.4	0	
3	QPSK	1	8	16.11	16.11	16.00			
3	QPSK	1	14	16.02	16.06	15.98			
3	QPSK	8	0	16.14	16.15	16.16			
3	QPSK	8	4	16.08	16.07	15.96			
3	QPSK	8	7	16.10	16.10	16.00			
3	QPSK	15	0	15.97	16.12	16.06			
3	16QAM	1	0	16.09	16.24	16.02	17.4	0	
3	16QAM	1	8	16.03	16.13	15.98			
3	16QAM	1	15	16.19	16.27	16.04			
3	16QAM	8	0	16.04	16.14	16.05	17.4	0	
3	16QAM	8	4	16.05	16.16	15.99			
3	16QAM	15	0	16.08	16.11	16.05			
3	16QAM	15	0	16.13	16.08	16.02	17.4	0	
3	64QAM	1	0	15.97	16.06	15.90	17.4	0	
3	64QAM	1	14	16.11	16.17	16.17			
3	64QAM	8	0	16.02	16.16	16.04	17.4	0	
3	64QAM	8	7	16.04	16.13	15.95			
3	256QAM	1	0	15.95	16.08	16.04	17	0.4	
3	256QAM	1	8	15.91	15.96	15.82			
3	256QAM	8	0	15.86	16.01	15.98			
3	256QAM	8	0	15.86	16.02	15.80			
3	256QAM	8	4	16.18	15.89	15.74	17	0.4	
3	256QAM	15	0	15.70	15.84	15.76			
3	256QAM	15	0	15.92	16.04	15.90			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	16.15	16.20	16.10			
1.4	QPSK	1	3	16.05	16.12	16.02	17.4	0	
1.4	QPSK	1	5	16.00	16.15	15.90			
1.4	QPSK	3	0	16.08	16.20	16.17			
1.4	QPSK	3	1	16.05	16.10	16.01			
1.4	16QAM	1	0	16.06	16.06	16.00	17.4	0	
1.4	16QAM	1	3	16.05	16.16	16.04			
1.4	16QAM	1	5	16.05	16.13	16.11	17.4	0	
1.4	16QAM	3	0	16.08	16.08	16.02			
1.4	16QAM	3	3	16.12	16.16	16.09			
1.4	16QAM	5	0	16.01	16.18	16.09			
1.4	16QAM	5	3	16.12	16.15	16.04			
1.4	16QAM	5	5	16.08	16.08	16.02	17.4	0	
1.4	16QAM	15	0	16.01	16.13	16.02			
1.4	16QAM	15	3	16.04	16.13	16.07			
1.4	16QAM	15	5	16.14	16.12	16.01			
1.4	16QAM	30	0	16.01	16.16	16.07	17.4	0	
1.4	16QAM	30	3	16.07	16.16	16.03			
1.4	16QAM	30	5	16.12	16.12	15.99			
1.4	64QAM	1	0	16.14	16.20	16.14	17.4	0	
1.4	64QAM	1	5	16.06	16.09	16.02			
1.4	64QAM	1	5	16.06	16.07	15			



Band 12 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	APR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.58	22.70	22.82			
10	QPSK	1	20	22.63	22.75	22.87	24	0	
10	QPSK	1	40	22.68	22.70	22.87			
10	QPSK	25	0	21.68	21.71	21.84			
10	QPSK	25	12	21.64	21.68	21.75			
10	QPSK	25	25	21.62	21.66	21.82	23	1	
10	QPSK	50	0	21.60	21.67	21.83			
10	16QAM	1	0	21.70	21.75	21.84			
10	16QAM	1	20	21.54	21.63	21.91	23	1	
10	16QAM	1	40	21.57	21.66	21.83			
10	16QAM	25	0	20.83	20.70	20.86			
10	16QAM	25	12	20.83	20.74	20.83	22	2	
10	16QAM	25	25	20.86	20.78	20.72			
10	16QAM	50	0	20.84	20.73	20.89			
10	64QAM	1	0	20.80	20.89	20.83			
10	64QAM	1	20	20.87	20.77	20.84	22	2	
10	64QAM	1	40	20.83	20.88	20.84			
10	64QAM	25	0	19.52	19.65	19.54			
10	64QAM	25	12	19.62	19.71	19.59			
10	64QAM	25	25	19.51	19.58	19.55	21	3	
10	64QAM	50	0	19.62	19.70	19.62			
10	256QAM	1	0	17.57	17.71	17.66			
10	256QAM	1	20	17.51	17.65	17.56	19	5	
10	256QAM	1	40	17.54	17.68	17.62			
10	256QAM	25	0	17.58	17.69	17.64			
10	256QAM	25	12	17.59	17.74	17.62	19	5	
10	256QAM	25	25	17.56	17.62	17.56			
10	256QAM	50	0	17.53	17.66	17.52			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.47	22.70	22.49			
5	QPSK	1	12	22.40	22.68	22.81	24	0	
5	QPSK	1	24	22.42	22.66	22.44			
5	QPSK	12	0	21.85	21.85	21.82			
5	QPSK	12	7	21.40	21.62	21.82	23	1	
5	QPSK	12	13	21.53	21.56	21.49			
5	QPSK	25	0	21.52	21.56	21.52			
5	16QAM	1	0	21.58	21.64	21.57			
5	16QAM	1	12	21.46	21.51	21.39	23	1	
5	16QAM	1	24	21.48	21.62	21.39			
5	16QAM	12	0	20.48	20.66	20.52			
5	16QAM	12	7	20.55	20.68	20.49	22	2	
5	16QAM	12	13	20.53	20.66	20.49			
5	16QAM	25	0	20.58	20.61	20.59			
5	64QAM	1	0	20.74	20.81	20.76			
5	64QAM	1	12	20.67	20.74	20.67	22	2	
5	64QAM	1	24	20.62	20.63	20.50			
5	64QAM	12	0	19.45	19.51	19.50			
5	64QAM	12	7	19.48	19.51	19.44	21	3	
5	64QAM	12	13	19.46	19.51	19.44			
5	64QAM	25	0	19.67	19.60	19.49			
5	256QAM	1	0	17.43	17.46	17.46			
5	256QAM	1	12	17.36	17.42	17.37	19	5	
5	256QAM	1	24	17.45	17.58	17.56			
5	256QAM	12	0	17.48	17.55	17.48			
5	256QAM	12	7	17.48	17.55	17.48	19	5	
5	256QAM	12	13	17.42	17.53	17.49			
5	256QAM	25	0	17.42	17.54	17.42			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.87	22.87	22.87			
3	QPSK	1	8	22.38	22.51	22.46	24	0	
3	QPSK	1	16	22.44	22.63	22.52			
3	QPSK	8	0	21.60	21.59	21.60			
3	QPSK	8	4	21.43	21.59	21.49	23	1	
3	QPSK	8	7	21.66	21.62	21.50			
3	QPSK	16	0	21.54	21.56	21.51			
3	16QAM	1	0	21.62	21.67	21.54			
3	16QAM	1	8	21.44	21.60	21.38	23	1	
3	16QAM	1	16	21.61	21.65	21.36			
3	16QAM	8	0	20.55	20.62	20.60			
3	16QAM	8	4	20.65	20.66	20.56	22	2	
3	16QAM	8	7	20.67	20.66	20.62			
3	16QAM	15	0	20.51	20.67	20.59			
3	64QAM	1	0	20.76	20.80	20.77			
3	64QAM	1	8	20.65	20.70	20.54	22	2	
3	64QAM	1	16	20.54	20.64	20.55			
3	64QAM	8	0	19.41	19.58	19.47			
3	64QAM	8	4	19.40	19.67	19.51	21	3	
3	64QAM	8	7	19.45	19.52	19.46			
3	64QAM	15	0	19.54	19.60	19.50			
3	256QAM	1	0	17.53	17.60	17.55			
3	256QAM	1	8	17.44	17.50	17.52	19	5	
3	256QAM	1	16	17.41	17.52	17.56			
3	256QAM	8	0	17.54	17.63	17.47			
3	256QAM	8	4	17.54	17.63	17.47	19	5	
3	256QAM	8	7	17.44	17.54	17.47			
3	256QAM	15	0	17.60	17.59	17.57			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.53	22.61	22.45			
1.4	QPSK	1	3	22.41	22.53	22.53	24	0	
1.4	QPSK	1	5	22.48	22.55	22.59			
1.4	QPSK	3	0	22.64	22.57	22.52			
1.4	QPSK	3	1	22.44	22.55	22.43			
1.4	QPSK	3	3	22.49	22.63	22.59	23	1	
1.4	QPSK	8	0	21.67	21.64	21.55			
1.4	16QAM	1	0	21.61	21.63	21.54			
1.4	16QAM	1	3	21.45	21.54	21.39	23	1	
1.4	16QAM	1	5	21.47	21.63	21.48			
1.4	16QAM	3	0	21.48	21.65	21.66			
1.4	16QAM	3	1	21.63	21.71	21.64			
1.4	16QAM	8	0	21.66	21.73	21.67			
1.4	16QAM	6	0	20.53	20.66	20.60	22	2	
1.4	64QAM	1	0	20.74	20.80	20.74			
1.4	64QAM	1	3	20.64	20.64	20.53			
1.4	64QAM	1	5	20.49	20.60	20.55	22	2	
1.4	64QAM	3	0	20.43	20.50	20.40			
1.4	64QAM	3	1	20.52	20.60	20.49			
1.4	64QAM	3	3	20.41	20.47	20.44	21	3	
1.4	64QAM	6	0	19.53	19.59	19.50			
1.4	256QAM	1	0	17.46	17.67	17.56			
1.4	256QAM	1	3	17.36	17.50	17.49	19	5	
1.4	256QAM	1	5	17.47	17.51	17.57			
1.4	256QAM	3	0	17.50	17.56	17.57			
1.4	256QAM	3	1	17.53	17.70	17.65			
1.4	256QAM	3	3	17.31	17.47	17.45	19	5	
1.4	256QAM	6	0	17.63	17.51	17.54			

Band 13 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	APR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0		762				
10	QPSK	1	20		22.52		24	0	
10	QPSK	1	40		22.47				
10	QPSK	25	0		21.49				
10	QPSK	25	12		21.44		23	1	
10	QPSK	25	25		21.41				
10	QPSK	50	0		21.46				
10	16QAM	1	0		21.70				
10	16QAM	1	20		21.54		23	1	
10	16QAM	1	40		21.57				
10	16QAM	25	0		20.52				
10	16QAM	25	12		20.43		22	2	
10	16QAM	25	25		20.49				
10	16QAM	50	0		20.42				
10	64QAM	1	0		20.66				
10	64QAM	1	20		20.54		22	2	
10	64QAM	1	40		20.51				
10	64QAM	25	0		19.54				
10	64QAM	25	12		19.51		21	3	
10	64QAM	25	25		19.45				
10	64QAM	50	0		19.37				
10	256QAM	1	0		17.56				
10	256QAM	1	20		17.46		19	5	
10	256QAM	1	40		17.49				
10	256QAM	25	0		17.50				
10	256QAM	25	12		17.42		19	5	
10	256QAM	25	25		17.43				
10	256QAM	50	0		17.43				
Channel									
Frequency (MHz)									
5	QPSK	1	0		779.5				
5	QPSK	1	12		22.43	22.48	22.41	24	0
5	QPSK	1	24		22.41	22.34	22.34		
5	QPSK	12	0		21.42	21.37	21.46		
5	QPSK	12	7		21.35	21.31	21.31	23	1
5	QPSK	12	13		21.36	21.26	21.29		
5	QPSK	25	0		21.37	21.36	21.39		

Band 25 Ant1												
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	16.22	16.23	16.03			17.4	0		
20	QPSK	1	49	16.12	16.13	16.08						
20	QPSK	1	99	16.18	16.25	16.13			17.4	0		
20	QPSK	50	0	16.24	16.26	16.10						
20	QPSK	50	24	16.07	16.21	16.03			17.4	0		
20	QPSK	50	50	16.19	16.23	16.09						
20	QPSK	100	0	16.25	16.27	16.21			17.4	0		
20	16QAM	50	0	16.15	16.23	16.14						
20	16QAM	1	49	16.21	16.18	16.26			17.4	0		
20	16QAM	1	99	16.25	16.18	16.19						
20	16QAM	50	0	16.16	16.12	16.27			17.4	0		
20	16QAM	50	24	16.13	16.22	16.17						
20	16QAM	50	50	16.16	16.11	16.17			17.4	0		
20	16QAM	100	0	16.18	16.15	16.17						
20	64QAM	1	0	16.03	16.19	16.10			17.4	0		
20	64QAM	1	49	16.03	16.19	16.10						
20	64QAM	50	0	16.12	16.26	16.21			17.4	0		
20	64QAM	50	24	16.12	16.26	16.21						
20	64QAM	50	50	16.10	16.26	16.23			17.4	0		
20	64QAM	100	0	16.23	16.11	16.14						
20	256QAM	1	0	15.96	16.07	15.84			17.4	0		
20	256QAM	1	49	15.91	16.03	15.87						
20	256QAM	1	99	15.81	15.96	15.84			17.4	0		
20	256QAM	50	0	15.89	16.02	15.86						
20	256QAM	50	24	15.82	15.97	15.79			17.4	0		
20	256QAM	50	50	15.77	15.89	15.84						
20	256QAM	100	0	16.03	16.10	16.02						
Channel												
Frequency (MHz)												
16	QPSK	1	0	16.10	16.11	15.92			17.4	0		
16	QPSK	1	37	15.97	16.08	16.01						
16	QPSK	1	74	16.12	16.18	16.06			17.4	0		
16	QPSK	36	0	16.09	16.18	15.95						
16	QPSK	36	20	16.01	16.08	15.98			17.4	0		
16	QPSK	36	39	16.14	16.19	15.94						
16	QPSK	75	0	16.21	16.12	16.05			17.4	0		
16	16QAM	1	0	16.05	16.22	16.08						
16	16QAM	1	37	16.09	16.17	16.11			17.4	0		
16	16QAM	1	74	16.14	16.15	16.11						
16	16QAM	36	0	16.11	16.21	16.17			17.4	0		
16	16QAM	36	20	16.09	16.16	16.07						
16	16QAM	36	39	16.16	16.23	16.04			17.4	0		
16	16QAM	75	0	16.13	16.22	16.08						
16	64QAM	1	0	15.96	16.07	15.99			17.4	0		
16	64QAM	1	37	15.91	16.04	16.03						
16	64QAM	1	74	15.13	15.25	15.04			17.4	0		
16	64QAM	36	0	16.16	16.23	16.05						
16	64QAM	36	20	16.09	16.17	16.10			17.4	0		
16	64QAM	36	39	16.16	16.23	16.10						
16	64QAM	75	0	16.12	16.24	16.04			17.4	0		
16	64QAM	75	0	15.96	16.07	15.95						
16	256QAM	1	0	15.85	15.95	15.87			17.4	0		
16	256QAM	1	37	15.85	15.95	15.87						
16	256QAM	1	74	15.67	15.84	15.69			17.4	0		
16	256QAM	50	0	15.86	15.89	15.86						
16	256QAM	50	24	15.71	15.83	15.84			17.4	0		
16	256QAM	50	50	15.71	15.83	15.84						
16	256QAM	100	0	15.63	15.85	15.79						
Channel												
Frequency (MHz)												
16	QPSK	1	0	16.08	16.09	15.97			17.4	0		
16	QPSK	1	25	16.16	16.11	15.99						
16	QPSK	1	49	16.12	16.12	16.01			17.4	0		
16	QPSK	12	0	16.16	16.16	16.06						
16	QPSK	25	12	15.95	16.15	15.98			17.4	0		
16	QPSK	25	25	16.04	16.09	16.06						
16	QPSK	36	0	16.12	16.12	16.02			17.4	0		
16	QPSK	36	36	16.12	16.12	16.02						
16	16QAM	1	0	16.05	16.19	16.02			17.4	0		
16	16QAM	1	26	16.11	16.22	16.11						
16	16QAM	1	49	16.16	16.23	16.13			17.4	0		
16	16QAM	25	12	16.05	16.15	16.03						
16	16QAM	36	0	16.13	16.23	16.08			17.4	0		
16	16QAM	36	36	16.13	16.23	16.08						
16	16QAM	50	0	16.06	16.22	16.10			17.4	0		
16	16QAM	50	24	16.03	16.13	16.03						
16	64QAM	1	0	15.93	16.03	15.93			17.4	0		
16	64QAM	1	49	16.12	16.23	16.13						
16	64QAM	25	0	16.22	16.21	16.03			17.4	0		
16	64QAM	25	12	16.05	16.15	16.03						
16	64QAM	50	0	16.12	16.20	16.06			17.4	0		
16	64QAM	50	24	16.03	16.13	16.03						
16	64QAM	50	50	16.06	16.22	16.10			17.4	0		
16	64QAM	100	0	16.03	16.13	16.03						
16	256QAM	1	0	15.93	16.03	15.93			17.4	0		
16	256QAM	1	49	16.12	16.23	16.13						
16	256QAM	25	0	16.22	16.21	16.03			17.4	0		
16	256QAM	25	12	16.05	16.15	16.03						
16	256QAM	50	0	16.12	16.20	16.06			17.4	0		
16	256QAM	50	24	16.03	16.13	16.03						
16	256QAM	50	50	16.06	16.22	16.10			17.4	0		
16	256QAM	100	0	16.03	16.13	16.03						
16	256QAM	175	0	15.19	15.41	15.19						
Channel												
Frequency (MHz)												
3	QPSK	1	0	16.13	16.21	16.03			17.4	0		
3	QPSK	1	12	16.01	16.05	15.96						
3	QPSK	1	24	16.08	16.18	16.04			17.4	0		
3	QPSK	12	0	16.11	16.11	16.01						
3	QPSK	12	7	15.96	16.17	15.93			17.4	0		
3	QPSK	12	13	16.14	16.11	15.99						
3	QPSK	20	0	16.10	16.10	16.03			17.4	0		
3	QPSK	20	1	16.10	16.18	16.10						
3	16QAM	1	12	16.09	16.17	16.14			17.4	0		
3	16QAM	1	24	16.21	16.16	16.04						
3	16QAM	12	0	16.04	16.20	16.14			17.4	0		
3	16QAM	12	7	16.06	16.17	16.08						
3	16QAM	12	13	16.24	16.17	16.07			17.4	0		
3	16QAM	25	0	16.09	16.20	16.12						
3	64QAM	1	0	15.97	16.15	15.99			17.4	0		
3	64QAM	1	12	15.92	16.12	16.09						
3	64QAM	1	24	16.09	16.27	16.07			17.4	0		
3	64QAM	12	0	16.13	16.25	16.11						
3	64QAM	12	7	16.00	16.17	16.08			17.4	0		
3	64QAM	12	13	15.95	16.11	15.91						
3	64QAM	20	0	16.16	16.18	16.06			17.4	0		
3	256QAM	1	0	15.93	15.97	15.82						
3	256QAM	1	12	15.81	15.91	15.90			17.4	0		
3	256QAM	1	24	15.71	15.84	15.76						
3	256QAM	12	0	15.76	15.91	15.84			17.4	0		
3	256QAM	12	7	15.78	15.74	15.61						
3	256QAM	12	13	15.63	15.86	15.61			17.4	0		
3	256QAM	25	0	15.90	16.01	15.96						
Channel												
Frequency (MHz)												
3	QPSK	1	0	16.09	16.20	16.10			17.4	0		
3	QPSK	1	8	16.05	16.08	16.04						
3	QPSK	1	15	16.11	16.11	16.01			17.4	0		
3	QPSK	8	0	16.14	16.16	15.96						
3	QPSK	8	4	15.98	16.12	15.98			17.4	0		
3	QPSK	16	0	16.11	16.23	16.15						
3	16QAM	1	0	16.05	16.15	16.01			17.4	0		
3	16QAM	1	8	16.02	16.23	16.13						
3	16QAM	1	14	16.18	16.17	16.04			17.4	0		
3	16QAM	8	0	16.08	16.26	16.16						
3	16QAM	8	4	16.02	16.12	16.02			17.4	0		
3	16QAM	16	0	16.21	16.28	16.18						
3	16QAM	16	8	16.11	16.27	16.12			17.4	0		
3	16QAM	16	14	16.08	16.12	16.04						
3	64QAM	1	8	15.98	16.10	15.97			17.4	0		
3	64QAM	1	14	16.09	16.22	16.12						
3	64QAM	8	0	16.13	16.19	16.14			17.4	0		
3	64QAM	8	4	16.01	16.18	16.12						
3	64QAM	16	0	16.17	16.26	16.16			17.4	0		
3	64QAM	16	8	16.09	16.16	16.04						
3	256QAM	1	0	15.82	16.00	15.83			17.4	0		
3	256QAM	1	8	15.81	15.97	15.81						
3	256QAM	1	14	15.70	15.89	15.74			17.4	0		
3	256QAM	8	0	15.70	15.79	15.71						
3	256QAM	16	0	15.94	16.02	15.94						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	16.12	16.25	15.90			17.4	0		
1.4	QPSK	1	3	16.07	16.16	16.07						
1.4	QPSK	1	6	16.08	16.07	16.07			17.4	0		
1.4	QPSK	3	0	16.16	16.13	16.08						
1.4	QPSK	3	3	16.05	16.16	16.05			17.4	0		
1.4	QPSK	3	6	16.06	16.13	16.08						
1.4	QPSK	6	0	16.20	16.17	16.10			17.			



Band 38 Ant1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	50	0	16.99	17.03	16.94	17.9	0				
20	QPSK	1	49	16.71	16.88	16.84						
20	QPSK	1	49	16.91	16.90	16.90						
20	QPSK	50	0	16.85	17.00	16.85						
20	QPSK	50	24	16.93	16.98	16.87	17.9	0				
20	QPSK	50	50	16.76	16.82	16.79						
20	QPSK	100	0	16.81	16.90	16.80						
20	16QAM	1	0	16.79	16.91	16.83						
20	16QAM	1	49	16.96	16.86	16.83	17.9	0				
20	16QAM	1	99	16.77	16.87	16.82						
20	16QAM	50	24	16.82	16.88	16.81						
20	16QAM	50	50	16.74	16.91	16.78						
20	16QAM	100	0	16.82	16.92	16.81	17.9	0				
20	16QAM	1	0	16.83	16.85	16.72						
20	16QAM	1	49	16.83	16.86	16.87						
20	16QAM	1	99	16.82	16.85	16.71						
20	64QAM	1	40	16.83	16.96	16.87	17.9	0				
20	64QAM	1	90	16.77	16.85	16.71						
20	64QAM	50	5	16.77	16.86	16.73						
20	64QAM	50	24	16.92	16.95	16.80						
20	64QAM	50	49	16.89	16.93	16.69	17.9	0				
20	64QAM	100	0	16.89	16.93	16.79						
20	25QAM	1	0	16.51	16.56	16.47						
20	25QAM	1	49	16.61	16.66	16.52						
20	25QAM	1	99	16.46	16.52	16.39	17.9	0				
20	25QAM	50	24	16.58	16.59	16.50						
20	25QAM	50	24	16.34	16.44	16.40						
20	25QAM	50	50	16.80	16.83	16.81						
20	25QAM	100	0	16.82	16.82	16.50	17.9	0				
Channel												
Frequency (MHz)												
15	QPSK	1	0	16.73	17.00	16.12				17.9	0	
15	QPSK	1	47	16.66	16.82	16.60						
15	QPSK	1	74	16.68	16.76	16.69						
15	QPSK	36	0	16.80	16.87	16.77						
15	QPSK	36	20	16.78	16.88	16.73	17.9	0				
15	QPSK	36	36	16.68	16.80	16.70						
15	QPSK	75	0	16.71	16.91	16.71						
15	16QAM	1	0	16.68	16.82	16.73						
15	16QAM	1	47	16.65	16.80	16.60	17.9	0				
15	16QAM	1	74	16.64	16.74	16.72						
15	16QAM	36	0	16.74	16.79	16.63						
15	16QAM	36	20	16.74	16.84	16.70						
15	16QAM	36	36	16.65	16.85	16.77	17.9	0				
15	16QAM	75	0	16.77	16.81	16.70						
15	16QAM	1	0	16.73	16.72	16.60						
15	64QAM	1	37	16.70	16.92	16.76						
15	64QAM	1	74	16.76	16.75	16.60	17.9	0				
15	64QAM	36	0	16.74	16.82	16.61						
15	64QAM	36	20	16.80	16.84	16.74						
15	64QAM	36	36	16.67	16.87	16.74						
15	64QAM	75	0	16.81	16.92	16.70	17.9	0				
15	25QAM	1	0	16.47	16.51	16.40						
15	25QAM	1	47	16.79	16.83	16.63						
15	25QAM	1	74	16.40	16.49	16.30						
15	25QAM	36	0	16.52	16.46	16.38						
15	25QAM	36	20	16.50	16.50	16.25	17.9	0				
15	25QAM	36	36	16.54	16.55	16.47						
15	25QAM	75	0	16.43	16.57	16.44						
Channel												
Frequency (MHz)												
10	QPSK	1	0	16.90	16.46	16.46	17.9	0				
10	QPSK	1	25	16.59	16.83	16.71						
10	QPSK	1	49	16.76	16.87	16.68						
10	QPSK	25	0	16.81	16.87	16.77						
10	QPSK	25	12	16.84	16.89	16.72	17.9	0				
10	QPSK	25	25	16.73	16.72	16.69						
10	QPSK	50	0	16.74	16.86	16.70						
10	16QAM	1	0	16.76	16.85	16.77						
10	16QAM	1	25	16.80	16.85	16.79	17.9	0				
10	16QAM	1	49	16.72	16.80	16.74						
10	16QAM	25	0	16.65	16.77	16.62						
10	16QAM	25	12	16.74	16.82	16.64						
10	16QAM	50	0	16.81	16.78	16.77	17.9	0				
10	16QAM	50	0	16.73	16.85	16.71						
10	16QAM	1	0	16.79	16.70	16.70						
10	16QAM	1	25	16.79	16.82	16.80						
10	16QAM	1	49	16.70	16.73	16.58	17.9	0				
10	16QAM	25	0	16.72	16.75	16.63						
10	16QAM	25	12	16.86	16.88	16.85						
10	16QAM	25	25	16.85	16.94	16.76						
10	16QAM	50	0	16.78	16.89	16.71	17.9	0				
10	25QAM	1	0	16.46	16.40	16.34						
10	25QAM	1	25	16.54	16.40	16.19						
10	25QAM	1	49	16.80	16.40	16.28						
10	25QAM	25	0	16.52	16.50	16.40						
10	25QAM	25	12	16.28	16.20	16.50	17.9	0				
10	25QAM	25	25	16.50	16.40	16.30						
10	25QAM	50	0	16.41	16.58	16.44						
Channel												
Frequency (MHz)												
5	QPSK	1	0	16.85	16.91	16.90	17.9	0				
5	QPSK	1	12	16.95	16.75	16.70						
5	QPSK	1	24	16.98	16.80	16.65						
5	QPSK	12	0	16.81	16.86	16.76						
5	QPSK	12	7	16.89	16.91	16.79	17.9	0				
5	QPSK	12	13	16.71	16.72	16.60						
5	QPSK	26	0	16.67	16.80	16.73						
5	16QAM	1	0	16.71	16.80	16.70						
5	16QAM	1	12	16.89	16.93	16.85	17.9	0				
5	16QAM	1	24	16.82	16.74	16.76						
5	16QAM	12	0	16.66	16.79	16.66						
5	16QAM	12	7	16.72	16.86	16.77						
5	16QAM	12	13	16.82	16.75	16.76	17.9	0				
5	16QAM	25	0	16.72	16.81	16.75						
5	64QAM	1	0	16.80	16.77	16.64						
5	64QAM	1	12	16.73	16.83	16.80						
5	64QAM	1	24	16.76	16.78	16.65	17.9	0				
5	64QAM	12	0	16.67	16.86	16.69						
5	64QAM	12	7	16.81	16.87	16.68						
5	64QAM	12	13	16.83	16.80	16.80						
5	64QAM	25	0	16.81	16.78	16.67	17.9	0				
5	25QAM	1	0	16.39	16.40	16.38						
5	25QAM	1	12	16.24	16.32	16.28						
5	25QAM	1	24	16.38	16.43	16.28						
5	25QAM	12	0	16.38	16.47	16.45	17.9	0				
5	25QAM	12	7	16.25	16.25	16.27						
5	25QAM	12	13	16.54	16.54	16.39						
5	25QAM	25	0	16.38	16.50	16.46						

Band 38 HPUE Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.43	16.45	16.34	19.5	0	
20	QPSK	1	49	16.31	16.37	16.24			
20	QPSK	1	99	16.35	16.42	16.31			
20	QPSK	50	0	16.26	16.41	16.30			
20	QPSK	50	24	16.33	16.37	16.26	19.5	0	
20	QPSK	50	50	16.20	16.31	16.25			
20	QPSK	100	0	16.27	16.36	16.29			
20	16QAM	1	0	16.33	16.39	16.21			
20	16QAM	1	49	16.25	16.31	16.19	19.5		
20	16QAM	1	99	16.31	16.34	16.23	19.5	0	
20	16QAM	50	0	16.26	16.36	16.25			
20	16QAM	50	24	16.22	16.38	16.22			
20	16QAM	50	50	16.24	16.31	16.23			
20	16QAM	100	0	16.26	16.36	16.25	19.5	0	
20	256QAM	1	0	16.29	16.42	16.34			
20	256QAM	1	49	16.23	16.33	16.20			
20	256QAM	1	99	16.31	16.44	16.30			
20	256QAM	50	0	16.26	16.41	16.30	19.5	0	
20	256QAM	50	24	16.27	16.38	16.21			
20	256QAM	50	50	16.29	16.36	16.23			
20	256QAM	100	0	16.32	16.39	16.24			
Channel									
Frequency (MHz)									
15	QPSK	1	0	16.36	16.43	16.12	19.5	0	
15	QPSK	1	37	16.17	16.28	16.18			
15	QPSK	1	74	16.22	16.28	16.28			
15	QPSK	36	0	16.20	16.30	16.20			
15	QPSK	36	20	16.29	16.25	16.11	19.5	0	
15	QPSK	36	36	16.14	16.19	16.03			
15	QPSK	75	0	16.12	16.29	16.24			
15	16QAM	1	0	16.19	16.36	16.08			
15	16QAM	1	37	16.23	16.23	16.09	19.5		
15	16QAM	1	74	16.06	16.24	16.09	19.5	0	
15	16QAM	36	0	16.24	16.32	16.25			
15	16QAM	36	36	16.13	16.23	16.09			
15	16QAM	36	39	16.14	16.19	16.26			
15	16QAM	75	0	16.15	16.26	16.24	19.5	0	
15	64QAM	1	0	16.15	16.28	16.23			
15	64QAM	1	37	16.26	16.28	16.27			
15	64QAM	1	74	16.10	16.25	16.25			
15	64QAM	36	0	16.26	16.26	16.08	19.5	0	
15	64QAM	36	20	16.19	16.31	16.18			
15	64QAM	36	39	16.22	16.18	16.11			
15	64QAM	75	0	16.16	16.23	16.17			
15	256QAM	1	0	16.16	16.23	16.17	19.5	0	
15	256QAM	1	37	16.09	16.22	16.07			
15	256QAM	1	74	16.19	16.39	16.28			
15	256QAM	36	0	16.24	16.25	16.23			
15	256QAM	36	20	16.16	16.18	16.12	19.5	0	
15	256QAM	36	39	16.23	16.24	16.19			
15	256QAM	75	0	16.26	16.28	16.25			
15	256QAM	100	0	16.32	16.39	16.24			
Channel									
Frequency (MHz)									
10	QPSK	1	0	16.31	16.41	16.20	19.5	0	
10	QPSK	1	25	16.23	16.31	16.18			
10	QPSK	1	50	16.26	16.31	16.22			
10	QPSK	25	0	16.19	16.28	16.25			
10	QPSK	25	12	16.27	16.31	16.13	19.5	0	
10	QPSK	25	25	16.20	16.34	16.24			
10	QPSK	50	0	16.22	16.27	16.24			
10	16QAM	1	0	16.25	16.32	16.17			
10	16QAM	1	25	16.27	16.30	16.27	19.5	0	
10	16QAM	1	49	16.08	16.22	16.13			
10	16QAM	25	0	16.22	16.34	16.24			
10	16QAM	25	12	16.14	16.25	16.25			
10	16QAM	25	12	16.07	16.28	16.21	19.5	0	
10	16QAM	50	0	16.21	16.37	16.27			
10	64QAM	1	0	16.09	16.29	16.25			
10	64QAM	1	25	16.20	16.36	16.26			
10	64QAM	1	49	16.29	16.29	16.29	19.5	0	
10	64QAM	25	0	16.25	16.27	16.14			
10	64QAM	25	12	16.12	16.28	16.16			
10	64QAM	25	12	16.14	16.25	16.20			
10	64QAM	50	0	16.21	16.28	16.24	19.5	0	
10	256QAM	1	0	16.16	16.26	16.21			
10	256QAM	1	25	16.08	16.24	16.15			
10	256QAM	1	49	16.27	16.40	16.33			
10	256QAM	25	0	16.25	16.28	16.25	19.5	0	
10	256QAM	25	12	16.21	16.24	16.20			
10	256QAM	25	12	16.24	16.27	16.13			
10	256QAM	50	0	16.27	16.35	16.27			
Channel									
Frequency (MHz)									
5	QPSK	1	0	16.31	16.43	16.16	19.5	0	
5	QPSK	1	12	16.26	16.35	16.24			
5	QPSK	1	25	16.23	16.31	16.25			
5	QPSK	12	0	16.21	16.31	16.21			
5	QPSK	12	7	16.27	16.25	16.16	19.5	0	
5	QPSK	25	0	16.13	16.30	16.17			
5	16QAM	1	0	16.29	16.28	16.07			
5	16QAM	1	12	16.13	16.26	16.07			
5	16QAM	1	24	16.15	16.29	16.16	19.5	0	
5	16QAM	12	7	16.25	16.26	16.06			
5	16QAM	12	7	16.17	16.28	16.05			
5	16QAM	12	13	16.15	16.16	16.16			
5	16QAM	1	0	16.13	16.28	16.28	19.5	0	
5	16QAM	1	12	16.20	16.35	16.26			
5	16QAM	1	24	16.12	16.21	16.12			
5	16QAM	12	13	16.21	16.25	16.12			
5	16QAM	1	0	16.23	16.22	16.12	19.5	0	
5	16QAM	1	12	16.16	16.27	16.11			
5	16QAM	1	24	16.11	16.30	16.16			
5	16QAM	25	0	16.21	16.30	16.19			
5	256QAM	1	0	16.28	16.28	16.28	19.5	0	
5	256QAM	1	12	16.13	16.25	16.15			
5	256QAM	1	24	16.18	16.40	16.30			
5	256QAM	1	12	16.27	16.35	16.27			
5	256QAM	12	7	16.22	16.27	16.07	19.5	0	
5	256QAM	12	13	16.21	16.21	16.16			
5	256QAM	12	13	16.20	16.25	16.21			
5	256QAM	12	7	16.22	16.27	16.07			

Band 41 Ant1												
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power Low Hgh Ch / Freq	Power High Hgh Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				39790	40188	40620	41095	41490				
				2501	2547	2593	2639	2685				
20	QPSK	1	0	16.86	16.97	17.01	16.93	17.05				
20	QPSK	1	49	17.02	16.96	17.05	16.87	16.88		17.9	0	
20	QPSK	1	98	16.96	17.05	17.09	16.96	16.93				
20	QPSK	50	0	17.00	16.90	17.02	16.93	16.89				
20	QPSK	50	24	16.94	16.91	16.97	16.83	16.86		17.9	0	
20	QPSK	50	49	16.93	16.94	16.95	16.85	16.85				
20	QPSK	100	0	16.85	16.82	16.95	16.89	16.92				
20	16QAM	1	0	16.83	16.84	16.95	16.84	16.82				
20	16QAM	1	49	17.02	17.01	17.09	16.96	16.97		17.9	0	
20	16QAM	1	99	17.05	16.95	17.09	17.01	16.94				
20	16QAM	50	0	16.96	16.77	16.99	16.77	16.76				
20	16QAM	50	24	16.79	16.84	16.97	16.85	16.85		17.9	0	
20	16QAM	50	50	16.89	16.96	17.05	16.89	16.90				
20	16QAM	100	0	16.91	17.00	17.05	16.85	17.02				
20	16QAM	100	1	16.75	16.85	16.95	16.77	16.75				
20	16QAM	1	49	16.72	16.78	16.87	16.78	16.83		17.9	0	
20	16QAM	1	99	16.87	16.97	16.95	16.93	16.85				
20	16QAM	50	0	16.87	16.83	16.97	16.85	16.85				
20	16QAM	50	24	16.90	16.90	17.03	16.89	16.93		17.9	0	
20	16QAM	50	50	16.95	16.91	17.01	16.98	16.95				
20	16QAM	100	0	16.88	16.93	16.96	16.81	16.89				
20	256QAM	1	0	16.46	16.54	16.67	16.58	16.51				
20	256QAM	1	49	16.95	16.89	16.71	16.59	16.56		17.9	0	
20	256QAM	1	99	16.46	16.48	16.62	16.48	16.47				
20	256QAM	50	0	16.47	16.57	16.67	16.47	16.46				
20	256QAM	50	24	16.35	16.45	16.54	16.48	16.40		17.9	0	
20	256QAM	50	50	16.49	16.57	16.65	16.51	16.54				
20	256QAM	100	0	16.48	16.47	16.73	16.64	16.63				
Channel												
Frequency (MHz)				39795	40173	40620	41098	41515	Turn-up limit (dBm)	MPR (dB)		
				2501.5	2547.5	2593	2637.5	2682.5				
16	QPSK	1	0	16.81	16.81	17.02	16.78	16.75				
16	QPSK	1	37	16.88	16.92	16.91	16.84	16.78		18	0	
16	QPSK	1	74	16.93	16.93	16.93	16.93	16.80				
16	QPSK	36	0	16.94	16.84	16.94	16.78	16.76				
16	QPSK	36	20	16.84	16.84	16.92	16.73	16.69		17.9	0	
16	QPSK	36	40	16.86	16.86	16.96	16.76	16.76				
16	QPSK	75	0	16.81	16.73	16.85	16.76	16.86				
16	16QAM	1	0	16.75	16.71	16.81	16.73	16.73				
16	16QAM	1	74	16.97	16.93	16.95	16.86	16.87		17.9	0	
16	16QAM	1	74	16.97	16.85	16.95	16.89	16.89				
16	16QAM	36	0	16.76	16.66	16.90	16.74	16.73				
16	16QAM	36	39	16.85	16.78	16.83	16.76	16.72		17.9	0	
16	16QAM	36	39	16.79	16.86	16.95	16.74	16.78				
16	16QAM	75	0	16.83	16.90	17.03	16.83	16.96				
16	16QAM	1	0	16.84	16.81	16.84	16.73	16.71		17.9	0	
16	16QAM	1	37	16.89	16.87	16.83	16.73	16.69				
16	16QAM	1	74	16.74	16.75	16.82	16.69	16.76				
16	16QAM	36	0	16.78	16.77	16.83	16.73	16.71				
16	16QAM	36	20	16.78	16.84	17.00	16.78	16.79		17.9	0	
16	16QAM	36	39	16.86	16.84	16.96	16.76	16.76				
16	16QAM	75	0	16.74	16.85	16.93	16.59	16.51				
16	256QAM	1	0	16.40	16.42	16.59	16.49	16.44				
16	256QAM	1	49	16.91	16.84	16.54	16.41	16.46		17.9	0	
16	256QAM	1	74	16.34	16.42	16.58	16.34	16.42				
16	256QAM	36	0	16.20	16.36	16.53	16.40	16.22				
16	256QAM	36	39	16.32	16.31	16.44	16.41	16.35		17.9	0	
16	256QAM	36	39	16.34	16.49	16.55	16.52	16.45				
16	256QAM	75	0	16.36	16.46	16.58	16.46	16.50				
Channel												
Frequency (MHz)				2501.5	2547	2593	2639	2685	Turn-up limit (dBm)	MPR (dB)		
				2501.5	2547	2593	2639	2685				
16	QPSK	1	0	16.81	16.87	16.96	16.83	16.80				
16	QPSK	1	25	16.88	16.82	16.99	16.79	16.80		17.90	0	
16	QPSK	1	49	16.84	16.97	16.85	16.91	16.79				
16	QPSK	25	0	16.86	16.86	16.90	16.86	16.86				
16	QPSK	25	12	16.84	16.77	16.86	16.69	16.71		17.9	0	
16	QPSK	25	25	16.72	16.81	16.93	16.69	16.73				
16	QPSK	50	0	16.81	16.71	16.85	16.85	16.79				
16	16QAM	1	0	16.80	16.76	16.83	16.73	16.67		17.9	0	
16	16QAM	1	25	16.88	16.92	17.03	16.84	16.86				
16	16QAM	1	49	16.89	16.89	17.01	16.94	16.89				
16	16QAM	25	0	16.81	16.70	16.88	16.66	16.74				
16	16QAM	25	12	16.80	16.72	16.89	16.72	16.69		17.9	0	
16	16QAM	25	25	16.75	16.85	17.01	16.77	16.81				
16	16QAM	50	0	16.80	16.85	16.94	16.84	16.97				
16	16QAM	1	0	16.74	16.92	16.89	16.76	16.69				
16	16QAM	1	25	16.82	16.89	16.75	16.72	16.70		17.9	0	
16	16QAM	1	49	16.77	16.80	16.85	16.85	16.82				
16	16QAM	25	0	16.78	16.69	16.92	16.81	16.72				
16	16QAM	25	12	16.84	16.82	16.90	16.85	16.88		17.9	0	
16	16QAM	25	25	16.85	16.79	16.89	16.81	16.78				
16	16QAM	50	0	16.82	16.88	16.87	16.77	16.81				
16	256QAM	1	0	16.39	16.40	16.56	16.52	16.43				
16	256QAM	1	25	16.47	16.50	16.64	16.52	16.51		17.9	0	
16	256QAM	1	49	16.39	16.34	16.48	16.36	16.40				
16	256QAM	25	0	16.25	16.44	16.52	16.38	16.21				
16	256QAM	25	12	16.32	16.39	16.42	16.37	16.30		17.9	0	
16	256QAM	25	25	16.35	16.42	16.57	16.52	16.48				
16	256QAM	50	0	16.33	16.58	16.63	16.61	16.42				

Band 41 HPUE Ant1												
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power Low Hgh Ch / Freq	Power High Hgh Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				39790	40188	40620	41095	41490				
				2501	2548	2593	2638	2684				
20	QPSK	1	0	16.37	16.35	16.55	16.32	16.40				
20	QPSK	1	49	16.36	16.32	16.45	16.40	16.33		19.5	0	
20	QPSK	1	99	16.32	16.43	16.45	16.48	16.43				
20	QPSK	50	0	16.42	16.29	16.46	16.40	16.38				
20	QPSK	50	24	16.34	16.26	16.44	16.44	16.31		19.5	0	
20	QPSK	50	49	16.29	16.40	16.45	16.37	16.38				
20	QPSK	100	0	16.43	16.41	16.52	16.43	16.37				
20	16QAM	1	0	16.31	16.32	16.47	16.30	16.42				
20	16QAM	1	49	16.32	16.39	16.44	16.37	16.37		19.5	0	
20	16QAM	1	99	16.47	16.47	16.54	16.47	16.37				
20	16QAM	50	0	16.24	16.26	16.41	16.37	16.32				
20	16QAM	50	24	16.35	16.32	16.49	16.39	16.37		19.5	0	
20	16QAM	50	50	16.41	16.41	16.47	16.51	16.52				
20	16QAM	100	0	16.25	16.32	16.44	16.26	16.35				
20	16QAM	1	0	16.32	16.35	16.39	16.27	16.25				
20	16QAM	1	49	16.32	16.27	16.42	16.25	16.30		19.5	0	
20	16QAM	1	99	16.43	16.46	16.50	16.29	16.35				
20	16QAM	50	0	16.30	16.41	16.44	16.36	16.34				
20	16QAM	50	24	16.43	16.34	16.50	16.37	16.47		19.5	0	</

Band 2 Ant2													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turnup time (sec)	MPR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	22.58	22.70	22.65			24	0			
20	QPSK	1	49	22.48	22.60	22.55							
20	QPSK	1	99	22.50	22.64	22.57			23	1			
20	QPSK	50	0	21.61	21.76	21.62							
20	QPSK	50	24	21.64	21.71	21.68							
20	QPSK	50	50	21.47	21.62	21.59							
20	QPSK	100	0	21.52	21.67	21.59			23	1			
20	16QAM	100	0	21.70	21.79	21.74							
20	16QAM	1	49	21.62	21.76	21.71			23	1			
20	16QAM	1	99	21.77	21.82	21.78							
20	16QAM	50	0	20.51	20.52	20.49							
20	16QAM	50	24	20.58	20.67	20.55							
20	16QAM	50	50	20.57	20.72	20.68			22	2			
20	16QAM	100	0	20.54	20.69	20.59							
20	64QAM	1	0	20.59	20.74	20.67			21	3			
20	64QAM	1	49	20.77	20.90	20.89							
20	64QAM	50	0	19.54	19.58	19.59							
20	64QAM	50	24	19.56	19.65	19.52							
20	64QAM	50	50	19.64	19.75	19.62			19	5			
20	64QAM	100	0	19.53	19.63	19.58							
20	256QAM	1	99	17.66	17.75	17.67			19	5			
20	256QAM	1	49	17.76	17.87	17.78							
20	256QAM	50	0	17.60	17.64	17.62							
20	256QAM	50	24	17.54	17.61	17.49							
20	256QAM	50	50	17.65	17.71	17.61			20	5			
20	256QAM	100	0	17.54	17.62	17.57							
Channel													
Frequency (MHz)													
16	QPSK	1	0	22.44	22.46	22.41			24	0			
16	QPSK	1	74	22.41	22.44	22.47							
16	QPSK	1	74	22.47	22.57	22.43			23	1			
16	QPSK	36	0	21.53	21.67	21.51							
16	QPSK	36	20	21.57	21.66	21.59							
16	QPSK	36	39	21.35	21.58	21.43							
16	QPSK	75	0	21.49	21.68	21.63			23	1			
16	16QAM	75	0	21.61	21.86	21.80							
16	16QAM	1	37	21.59	21.62	21.61			23	1			
16	16QAM	1	74	21.61	21.73	21.68							
16	16QAM	36	0	20.38	20.57	20.38							
16	16QAM	36	20	20.50	20.62	20.59							
16	16QAM	36	39	20.48	20.72	20.63			22	2			
16	16QAM	75	0	20.52	20.58	20.53							
16	64QAM	1	0	20.48	20.60	20.50			22	2			
16	64QAM	1	37	20.54	20.69	20.64							
16	64QAM	1	74	20.50	20.62	20.59							
16	64QAM	36	0	19.48	19.58	19.51							
16	64QAM	36	20	19.44	19.58	19.54			21	3			
16	64QAM	36	39	19.49	19.65	19.54							
16	64QAM	75	0	19.39	19.59	19.47			19	5			
16	256QAM	1	37	17.59	17.70	17.72							
16	256QAM	1	74	17.60	17.68	17.58							
16	256QAM	36	0	17.51	17.58	17.56							
16	256QAM	36	20	17.39	17.50	17.42			19	5			
16	256QAM	36	39	17.52	17.66	17.55							
16	256QAM	75	0	17.48	17.59	17.43							
Channel													
Frequency (MHz)													
16	QPSK	1	0	22.40	22.42	22.45			24	0			
16	QPSK	1	25	22.37	22.52	22.45							
16	QPSK	1	49	22.41	22.53	22.53			23	1			
16	QPSK	36	0	21.56	21.66	21.57							
16	QPSK	36	20	21.58	21.67	21.54							
16	QPSK	36	25	21.36	21.47	21.40							
16	QPSK	75	0	21.60	21.79	21.64			23	1			
16	16QAM	75	0	21.62	21.87	21.82							
16	16QAM	1	26	21.53	21.64	21.51			23	1			
16	16QAM	1	69	21.60	21.69	21.64							
16	16QAM	25	0	20.37	20.57	20.39							
16	16QAM	25	12	20.43	20.62	20.49							
16	16QAM	36	0	20.50	20.63	20.57			22	2			
16	16QAM	36	20	20.53	20.67	20.59							
16	64QAM	1	49	20.48	20.64	20.57			22	2			
16	64QAM	1	26	20.46	20.54	20.49							
16	64QAM	25	12	19.42	19.54	19.48							
16	64QAM	25	25	19.53	19.70	19.55							
16	64QAM	50	0	19.49	19.54	19.52			19	5			
16	256QAM	1	0	17.55	17.68	17.60							
16	256QAM	1	25	17.89	17.67	17.66							
16	256QAM	1	49	17.60	17.70	17.54							
16	256QAM	25	0	17.46	17.51	17.55			19	5			
16	256QAM	25	12	17.45	17.50	17.57							
16	256QAM	25	25	17.52	17.61	17.53							
Channel													
Frequency (MHz)													
5	QPSK	1	0	22.49	22.63	22.59			24	0			
5	QPSK	1	12	22.42	22.52	22.49							
5	QPSK	1	24	22.42	22.52	22.54			23	1			
5	QPSK	12	0	21.57	21.73	21.63							
5	QPSK	12	7	21.56	21.57	21.52							
5	QPSK	12	13	21.39	21.50	21.44							
5	QPSK	26	0	21.43	21.58	21.46			23	1			
5	16QAM	1	0	21.62	21.65	21.54							
5	16QAM	1	12	21.58	21.62	21.66			23	1			
5	16QAM	1	24	21.65	21.70	21.67							
5	16QAM	12	0	20.41	20.52	20.38							
5	16QAM	12	7	20.47	20.60	20.45							
5	16QAM	12	13	20.44	20.58	20.50			22	2			
5	16QAM	25	0	20.59	20.66	20.58							
5	64QAM	1	0	20.48	20.56	20.52			22	2			
5	64QAM	1	12	20.64	20.71	20.62							
5	64QAM	1	24	20.51	20.58	20.54							
5	64QAM	12	0	19.39	19.53	19.55							
5	64QAM	12	7	19.45	19.55	19.43			21	3			
5	64QAM	12	13	19.50	19.63	19.59							
5	64QAM	26	0	19.49	19.57	19.50			19	5			
5	256QAM	1	12	17.68	17.77	17.71							
5	256QAM	1	12	17.76	17.87	17.78							
5	256QAM	1	24	17.60	17.64	17.62							
5	256QAM	12	0	17.49	17.56	17.43			19	5			
5	256QAM	12	7	17.50	17.47	17.51							
5	256QAM	12	13	17.50	17.68	17.54							
5	256QAM	26	0	17.49	17.50	17.45							
Channel													
Frequency (MHz)													
3	QPSK	1	0	22.54	22.67	22.55			24	0			
3	QPSK	1	8	22.42	22.57	22.44							
3	QPSK	1	14	22.47	22.51	22.46			23	1			
3	QPSK	8	0	21.51	21.66	21.51							
3	QPSK	8	4	21.52	21.61	21.58							
3	QPSK	8	7	21.40	21.53	21.44							
3	QPSK	16	0	21.39	21.63	21.47			23	1			
3	16QAM	1	0	21.62	21.72	21.62							
3	16QAM	1	8	21.54	21.64	21.51			22	2			
3	16QAM	1	14	21.67	21.78	21.72							
3	16QAM	8	0	20.41	20.53	20.43							
3	16QAM	8	4	20.43	20.56	20.49			21	3			
3	16QAM	8	7	20.47	20.63	20.57							
3	16QAM	16	0	20.60	20.69	20.59			22	2			
3	16QAM	16	8	20.62	20.71	20.64							
3	16QAM	16	14	20.63	20.84	20.64							
3	16QAM	8	14	20.50	20.64	20.55							
3	64QAM	1	0	19.48	19.52	19.46			21	3			
3	64QAM	1	8	19.53	19.63	19.53							
3	64QAM	16	0	19.42	19.50	19.57			19	5			
3	256QAM	1	0	17.55	17.65	17.54							
3	256QAM	1	14	17.61	17.78	17.78							
3	256QAM	1	14	17.68	17.85	17.82							
3	256QAM	8	0	17.59	17.57	17.44			19	5			
3	256QAM	8	4	17.62	17.68	17.61							
3	256QAM	8	7	17.52	17.59	17.47							
3	256QAM	16	0	17.49	17.48	17.45							
Channel													
Frequency (MHz)													
1.4	QPSK	1	0	22.43	22.64	22.52			24	0			
1.4	QPSK	1	8	22.43	22.55	22.45							
1.4	QPSK	1	14	22.48	22.53	22.49			23	1			
1.4	QPSK	8	0	21.51	21.66	21.51							
1.4	QPSK	8	4	21.52	21.61	21.58							
1.4	QPSK	8	7	21.40	21.53	21.44							
1.4	QPSK	16	0	21.39	21.63	21.47			23	1			
1.4	16QAM	1	0	21.62	21.72	21.62							
1.4	16QAM	1	8	21.54	21.64	21.51			22	2			
1.4	16QAM	1	14	21.67	21.78	21.72							
1.4	16QAM	8	0	20.41	20.53	20.43							
1.4	16QAM	8	4	20.43	20.56	20.49			21	3			
1.4	16QAM	8	7	20.47	20.63	20.57							
1.4	16QAM	16	0	20.60	20.69	20.59			22	2			
1.4	16QAM	16	8	20.62	20.71	20.64							
1.4	16QAM	16	14	20.63	20.84	20.64							
1.4	16QAM	8	14	20.50	20.64	20.55							
1.4	64QAM	1	0	19.48	19.52	19.46			21	3			
1.4	64QAM	1	8	19.53	19.63	19.53							
1.4	64QAM	16	0	19.42	19.50	19.57			19	5			
1.4	256QAM	1	0	17.55	17.65	17.54							
1.4	256QAM	1	14	17.61	17.78	17.78							
1.4	256QAM	1	14	17.68	17.85	17.82							
1.4	256QAM	8	0</										

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)	Time-up (ms)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	22.56	22.72	22.83	24	0						
20	QPSK	1	49	22.54	22.68	22.67								
20	QPSK	1	99	22.52	22.69	22.87								
20	QPSK	50	0	21.68	21.75	21.70								
20	QPSK	50	24	21.67	21.64	21.63	23	1						
20	QPSK	50	50	21.63	21.71	21.83								
20	QPSK	100	0	21.50	21.63	21.55								
20	16QAM	1	0	21.62	21.73	21.79								
20	16QAM	1	49	21.56	21.70	21.85	23	1						
20	16QAM	1	99	21.55	21.64	21.67								
20	16QAM	50	0	20.62	20.69	20.65								
20	16QAM	50	24	20.50	20.53	20.50								
20	16QAM	50	50	20.67	20.71	20.66	22	2						
20	16QAM	100	0	20.59	20.70	20.63								
20	64QAM	1	0	20.65	20.70	20.63								
20	64QAM	1	49	20.63	20.77	20.72								
20	64QAM	1	99	20.57	20.62	20.54	22	2						
20	64QAM	50	0	19.53	19.63	19.51								
20	64QAM	50	24	19.59	19.69	19.56								
20	64QAM	50	50	19.51	19.54	19.55								
20	64QAM	100	0	19.57	19.77	17.62	19	5						
20	256QAM	1	0	17.53	17.65	17.54								
20	256QAM	1	49	17.58	17.62	17.53								
20	256QAM	1	99	17.65	17.74	17.67								
20	256QAM	50	0	17.56	17.64	17.60								
20	256QAM	50	24	17.56	17.68	17.58								
20	256QAM	50	50	17.67	17.73	17.64								
20	256QAM	100	0	17.66	17.69	17.71	19	5						
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.43	22.62	22.58					24	0		
15	QPSK	1	37	22.45	22.61	22.48								
15	QPSK	1	74	22.47	22.60	22.34								
15	QPSK	36	0	21.83	21.87	21.58								
15	QPSK	36	36	21.51	21.59	21.60	23	1						
15	QPSK	36	39	21.43	21.57	21.42								
15	QPSK	75	0	21.48	21.60	21.51								
15	16QAM	1	0	21.48	21.60	21.51								
15	16QAM	1	37	21.46	21.65	21.59	23	1						
15	16QAM	1	74	21.47	21.57	21.41								
15	16QAM	36	0	20.54	20.62	20.60								
15	16QAM	36	20	20.48	20.57	20.39								
15	16QAM	50	0	20.48	20.55	20.57	22	2						
15	16QAM	50	24	20.48	20.55	20.57								
15	64QAM	1	0	20.57	20.57	20.58								
15	64QAM	1	37	20.60	20.62	20.64								
15	64QAM	1	74	20.47	20.52	20.40	21	3						
15	64QAM	36	0	19.46	19.53	19.43								
15	64QAM	36	36	19.50	19.56	19.45								
15	64QAM	36	39	19.55	19.55	19.52								
15	64QAM	75	0	19.54	19.58	19.57	19	5						
15	256QAM	1	0	17.53	17.65	17.54								
15	256QAM	1	37	17.49	17.54	17.41								
15	256QAM	1	74	17.53	17.66	17.63								
15	256QAM	36	0	17.65	17.62	17.42	19	5						
15	256QAM	36	20	17.47	17.53	17.48								
15	256QAM	36	39	17.57	17.59	17.59								
15	256QAM	75	0	17.41	17.46	17.35								
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.59	22.62	22.62	24	0						
10	QPSK	1	25	22.42	22.57	22.50								
10	QPSK	1	49	22.38	22.51	22.34								
10	QPSK	25	0	21.53	21.67	21.58								
10	QPSK	25	12	21.42	21.58	21.44	23	1						
10	QPSK	25	25	21.59	21.66	21.60								
10	QPSK	50	0	21.39	21.61	21.48								
10	16QAM	1	0	21.58	21.60	21.62								
10	16QAM	1	25	21.47	21.65	21.51	23	1						
10	16QAM	1	50	21.50	21.63	21.63								
10	16QAM	25	0	20.48	20.57	20.39								
10	16QAM	25	12	20.54	20.58	20.38								
10	16QAM	50	0	20.56	20.58	20.44	22	2						
10	16QAM	50	24	20.50	20.54	20.58								
10	64QAM	1	0	20.58	20.63	20.52								
10	64QAM	1	25	20.54	20.58	20.58								
10	64QAM	1	49	20.52	20.49	20.48	21	3						
10	64QAM	25	0	19.45	19.58	19.45								
10	64QAM	25	12	19.55	19.55	19.47								
10	64QAM	25	25	19.54	19.63	19.55								
10	64QAM	50	0	19.51	19.56	19.46	19	5						
10	256QAM	1	0	17.58	17.72	17.55								
10	256QAM	1	25	17.48	17.48	17.41								
10	256QAM	1	49	17.56	17.62	17.52								
10	256QAM	25	0	17.44	17.58	17.38	19	5						
10	256QAM	25	12	17.49	17.59	17.36								
10	256QAM	25	25	17.64	17.60	17.58								
10	256QAM	50	0	17.58	17.62	17.51								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.47	22.52	22.44	24	0						
5	QPSK	1	12	22.46	22.52	22.44								
5	QPSK	1	24	22.37	22.55	22.36								
5	QPSK	12	0	21.54	21.71	21.62								
5	QPSK	12	7	21.44	21.60	21.37	23	1						
5	QPSK	12	13	21.57	21.62	21.59								
5	QPSK	25	0	21.46	21.53	21.47								
5	16QAM	1	0	21.50	21.68	21.59								
5	16QAM	1	12	21.45	21.66	21.59	23	1						
5	16QAM	1	24	21.43	21.45	21.11								
5	16QAM	12	0	20.57	20.59	20.53								
5	16QAM	12	7	20.53	20.53	20.39								
5	16QAM	12	13	20.56	20.52	20.45	22	2						
5	16QAM	25	0	20.48	20.56	20.38								
5	64QAM	1	0	20.54	20.57	20.50								
5	64QAM	1	12	20.56	20.70	20.58								
5	64QAM	1	24	20.46	20.47	20.47	21	3						
5	64QAM	12	0	19.39	19.53	19.41								
5	64QAM	12	7	19.54	19.59	19.48								
5	64QAM	12	13	19.57	19.59	19.62								
5	64QAM	25	0	19.52	19.59	19.56	19	5						
5	256QAM	1	0	17.53	17.67	17.56								
5	256QAM	1	12	17.54	17.53	17.39								
5	256QAM	1	24	17.60	17.70	17.62								
5	256QAM	12	0	17.46	17.53	17.43	19	5						
5	256QAM	12	7	17.41	17.62	17.49								
5	256QAM	12	13	17.58	17.65	17.55								
5	256QAM	25	0	17.63	17.66	17.53	19	5						
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.51	22.69	22.53					24	0		
3	QPSK	1	12	22.44	22.65	22.44								
3	QPSK	1	14	22.39	22.47	22.43								
3	QPSK	8	0	21.59	21.67	21.57								
3	QPSK	8	7	21.51	21.61	21.52	23	1						
3	QPSK	8	7	21.58	21.68	21.58								
3	QPSK	16	0	21.48	21.55	21.51								
3	16QAM	1	0	21.48	21.68	21.62								
3	16QAM	1	8	21.45	21.67	21.57	23	1						
3	16QAM	1	14	21.42	21.57	21.53								
3	16QAM	8	0	20.52	20.58	20.55								
3	16QAM	8	4	20.50	20.58	20.50								
3	16QAM	8	7	20.53	20.56	20.49	22	2						
3	16QAM	8	11	20.54	20.64	20.51								
3	64QAM	1	0	20.51	20.64	20.51								
3	64QAM	1	8	20.50	20.72	20.59								
3	64QAM	8	0	19.47	19.60	19.47	21	3						
3	64QAM	8	4	19.47	19.60	19.39								
3	64QAM	8	7	19.52	19.68	19.51								
3	64QAM	8	11	19.52	19.70	19.50								
3	64QAM	16	0	19.42	19.62	19.51	19	5						
3	64QAM	16	4	19.47	19.68	19.48								
3	256QAM	1	0	17.52	17.66	17.55								
3	256QAM	1	8	17.53	17.63	17.48								
3	256QAM	1	14	17.60	17.72	17.62	19	5						
3	256QAM	8	0	17.51	17.69	17.53								
3	256QAM	8	4	17.51	17.69	17.53								
3	256QAM	8	7	17.61	17.64	17.51								
3	256QAM	8	11	17.60	17.70	17.62								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.41	22.59	22.33	24	0						
1.4	QPSK	1	0	22.44	22.54	22.24								
1.4	QPSK	1	8	22.47	22.55	22.23								
1.4	QPSK	3	0	22.46	22.56	22.26								
1.4	QPSK	3	3	22.42	22.49	22.22	23	1						
1.4	QPSK	3	3	22.57	22.58	22.20								
1.4	QPSK	3	3	22.59	22.60	22.22								
1.4	16QAM	1	0	21.49	21.65	21.57								
1.4	16QAM	1	3	21.42	21.60	21.56	23	1						
1.4	16QAM	1	3	21.50	21.65	21.53								
1.4	16QAM	3	0	21.52	21.59	21.51								
1.4	16QAM	3	1	21.62	21.65	21.64								
1.4	16QAM	3	1	21.63	21.67	21.61	23	1						
1.4	16QAM	6	0	20.55	20.61	20.57								
1.4	16QAM	6	0	20.55	20.59	20.52								
1.4	16QAM	6	0	20.74	20.75	20.48								
1.4	16QAM	1	0	20.50	20.47	20.21	22	2						
1.4	16QAM	3	0	20.39	20.54	20.44								
1.4	16QAM	3	0	20.45	20.54	20.44								
1.4	16QAM	3	0	20.57	20.61	20.54								
1.4	16QAM	3	0	19.50	19.59	19.41	19	5						
1.4	16QAM	3	0	17.45	17.55	17.47								
1.4	16QAM	3	1	17.53	17.52	17.50								
1.4	16QAM	3	1	17.45	17.65	17.44								
1.4	16QAM	3	1	17.45	17.55	17.47	19	5						
1.4	16QAM	6	0	17.59	17.57	17.55								

Band 41 Ant0															
RW [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 limit (dBm)	MPR (dB)				
Channel															
39750 40188 40620 41066 41490															
Frequency (MHz)															
20	QPSK	1	0	22.12	22.24	22.30	22.27	22.22	22.22	23	0				
20	QPSK	1	40	22.03	21.87	22.01	21.98	22.00	22.00						
20	QPSK	1	80	22.02	21.89	22.10	22.06	22.10	22.10						
20	QPSK	50	0	21.08	21.11	21.25	21.10	21.22	21.22						
20	QPSK	50	24	21.01	20.97	21.01	20.96	21.02	21.02	22	1				
20	QPSK	50	48	20.90	21.03	20.98	20.94	21.02	21.02						
20	QPSK	100	0	20.92	20.99	21.05	21.00	21.04	21.04						
20	16QAM	1	0	21.00	20.96	21.09	21.06	21.04	21.04						
20	16QAM	1	40	20.92	20.86	20.94	20.90	20.91	20.91	22	1				
20	16QAM	1	80	20.82	20.79	20.89	20.77	20.89	20.89						
20	16QAM	50	0	19.96	19.87	20.08	19.86	19.91	19.91						
20	16QAM	50	24	20.02	20.00	20.12	20.00	20.04	20.04						
20	16QAM	50	50	19.93	19.89	19.95	19.89	19.89	19.89	21	2				
20	16QAM	100	0	20.02	20.04	20.14	20.06	20.09	20.09						
20	16QAM	100	1	20.15	20.15	20.26	20.15	20.14	20.14						
20	16QAM	1	40	20.04	19.99	20.12	20.01	19.95	19.95						
20	16QAM	1	80	20.11	20.05	20.20	20.15	20.15	20.15	21	2				
20	16QAM	50	0	19.95	19.94	19.97	19.96	19.93	19.93						
20	16QAM	50	24	19.93	19.86	19.91	19.76	19.81	19.81						
20	16QAM	50	50	19.89	19.80	19.92	19.84	19.84	19.84						
20	16QAM	100	0	19.93	19.91	19.10	19.00	19.02	19.02	20	3				
20	256QAM	1	0	17.04	17.00	17.10	17.05	17.00	17.00						
20	256QAM	1	40	16.91	16.86	16.94	16.91	16.91	16.91						
20	256QAM	1	80	17.05	16.99	17.11	16.99	16.98	16.98						
20	256QAM	50	0	16.94	16.90	16.99	16.96	16.92	16.92	18	5				
20	256QAM	50	24	16.80	16.75	16.84	16.81	16.78	16.78						
20	256QAM	50	50	16.75	16.77	16.84	16.73	16.75	16.75						
20	256QAM	100	0	16.93	16.88	16.94	16.73	16.75	16.75						
Channel															
39750 40173 40620 41066 41515															
Frequency (MHz)															
15	QPSK	1	0	22.11	22.29	22.30	22.27	22.22	22.22	23	0				
15	QPSK	1	37	21.87	21.91	21.95	21.89	21.84	21.84						
15	QPSK	1	74	21.86	21.94	22.04	22.00	22.09	22.09						
15	QPSK	1	80	21.00	21.09	21.19	21.04	21.16	21.16						
15	QPSK	36	20	20.95	20.91	20.95	20.89	20.96	20.96	22	1				
15	QPSK	36	40	20.98	20.97	20.98	20.97	20.97	20.97						
15	QPSK	75	0	20.86	20.93	20.99	20.94	20.98	20.98						
15	16QAM	1	0	20.94	20.93	21.03	21.00	20.98	20.98						
15	16QAM	1	40	20.95	20.96	20.98	20.94	20.78	20.78	22	1				
15	16QAM	1	74	20.78	20.73	20.83	20.71	20.74	20.74						
15	16QAM	36	0	19.89	19.81	20.00	19.80	19.85	19.85						
15	16QAM	36	36	19.86	19.84	19.92	19.84	19.87	19.87						
15	16QAM	36	39	19.77	19.62	19.89	19.75	19.83	19.83	21	2				
15	16QAM	75	0	19.97	19.98	20.05	19.94	20.00	20.00						
15	16QAM	1	0	20.04	20.13	20.20	20.10	20.07	20.07						
15	16QAM	1	37	19.98	19.93	20.05	19.92	19.89	19.89						
15	16QAM	1	74	20.05	19.99	20.19	20.08	20.04	20.04	20	3				
15	16QAM	36	0	19.89	19.87	19.91	19.80	19.86	19.86						
15	16QAM	36	20	19.78	19.80	19.85	19.79	19.75	19.75						
15	16QAM	36	36	19.82	19.82	19.86	19.82	19.82	19.82						
15	16QAM	75	0	19.97	19.95	19.93	19.94	19.95	19.95	18	5				
15	256QAM	1	0	19.98	19.94	17.04	16.99	16.94	16.94						
15	256QAM	1	40	19.95	19.92	16.95	16.85	16.85	16.85						
15	256QAM	1	74	19.99	19.92	17.05	16.93	16.92	16.92						
15	256QAM	36	0	19.93	19.89	19.94	19.84	19.90	19.90	18	5				
15	256QAM	36	36	19.94	19.73	19.88	19.75	19.72	19.72						
15	256QAM	36	39	19.84	19.71	19.78	19.67	19.69	19.69						
15	256QAM	75	0	19.97	19.96	19.98	19.96	19.96	19.96						
Channel															
39750 40160 40620 41066 41540															
Frequency (MHz)															
10	QPSK	1	0	22.11	22.28	22.29	22.21	22.21	22.21	23.00	0				
10	QPSK	1	25	21.97	21.91	21.95	21.90	21.94	21.94						
10	QPSK	1	49	21.85	21.84	22.04	22.00	22.09	22.09						
10	QPSK	25	15	21.01	21.05	21.16	21.04	21.16	21.16						
10	QPSK	25	12	20.95	20.90	20.95	20.89	20.96	20.96	22	1				
10	QPSK	25	25	20.93	20.97	21.02	20.88	20.96	20.96						
10	QPSK	50	0	20.86	20.93	20.98	20.94	20.98	20.98						
10	16QAM	1	0	20.93	20.93	21.04	21.00	20.98	20.98						
10	16QAM	1	25	20.78	20.80	20.88	20.84	20.75	20.75	22	1				
10	16QAM	1	49	20.79	20.77	20.83	20.71	20.74	20.74						
10	16QAM	25	0	19.90	19.81	20.00	19.80	19.85	19.85						
10	16QAM	25	19	19.96	19.93	20.08	19.96	19.98	19.98						
10	16QAM	25	16	19.77	19.83	19.89	19.75	19.84	19.84	21	2				
10	16QAM	50	0	19.97	19.98	20.05	19.94	20.00	20.00						
10	16QAM	1	25	19.98	19.93	20.06	19.95	19.89	19.89						
10	16QAM	1	49	20.05	19.99	20.14	20.09	20.04	20.04						
10	16QAM	25	0	19.89	19.88	19.91	19.91	19.87	19.87	20	3				
10	16QAM	25	12	19.77	19.79	19.85	19.70	19.75	19.75						
10	16QAM	25	25	19.93	19.84	19.88	19.78	19.78	19.78						
10	16QAM	50	0	19.97	19.95	19.94	19.95	19.96	19.96						
10	256QAM	1	0	16.99	16.94	17.05	16.99	16.95	16.95	18	5				
10	256QAM	1	25	16.95	16.92	16.98	16.85	16.95	16.95						
10	256QAM	1	49	16.99	16.93	17.05	16.93	16.92	16.92						
10	256QAM	25	0	16.92	16.89	16.95	16.84	16.89	16.89						
10	256QAM	25	0	16.74	16.73	16.80	16.75	16.72	16.72	18	5				
10	256QAM	25	0	16.74	16.73	16.80	16.75	16.72	16.72						
10	256QAM	25	25	16.94	16.70	16.78	16.67	16.69	16.69						
10	256QAM	50	0	16.98	16.86	16.98	16.96	16.97	16.97						
Channel															
39675 40140 40620 41066 41565															
Frequency (MHz)															
5	QPSK	1	0	22.11	22.28	22.29	22.21	22.21	22.21	23.00	0				
5	QPSK	1	12	21.08	21.91	21.95	21.90	21.94	21.94						
5	QPSK	1	24	21.06	21.94	22.04	22.00	22.09	22.09						
5	QPSK	12	0	21.00	21.05	21.19	21.04	21.16	21.16						
5	QPSK	12	7	20.95	20.90	20.95	20.89	20.96	20.96	22	1				
5	QPSK	12	14	20.93	20.97	21.02	20.88	20.96	20.96						
5	QPSK	25	0	20.86	20.93	20.99	20.94	20.98	20.98						
5	QPSK	1	0	20.90	20.90	21.03	21.00	20.98	20.98						
5	16QAM	1	0	20.94	20.94	21.04	21.00	20.98	20.98	22	1				
5	16QAM	1	24	20.78	20.73	20.83	20.71	20.74	20.74						
5	16QAM	12	7	19.90	19.94	20.06	19.94	19.99	19.99						
5	16QAM	12	13	19.93	19.83	19.90	19.74	19.83	19.83						
5	16QAM	25	0	19.90	19.86	19.95	19.84	19.90	19.90	21	2				
5	16QAM	1	12	19.90	19.90	20.00	19.95	19.89	19.89						
5	16QAM	24	24	20.02	20.02	20.12	20.00	20.04	20.04						
5	16QAM	12	0	19.89	19.88	19.92	19.80	19.87	19.87						
5	16QAM	12	7	19.77	19.78	19.85	19.70	19.75	19.75	20	3				
5	16QAM	12	13	19.93	19.83	19.90	19.74	19.78	19.78						
5	16QAM	25	0	19.97	19.95	19.94	19.94	19.96	19.96						
5	16QAM	25	13	19.98	19.84	19.88	19.78	19.84	19.84						
5	256QAM	1	0	16.99	16.92	16.98	16.85	16.94	16.94	18	5				
5	256QAM	1	12	16.99	16.93	17.05	16.93	16.93	16.93						
5	256QAM	1	24	16.92	16.89	16.95	16.84	16.89	16.89						
5	256QAM	12	7	16.94	16.73	16.80	16.70	16.72	16.72						
5	256QAM	12	13	16.97	16.71	16.78	16.67	16.69	16.69	18	5				
5	256QAM	25	0	16.98	16.86	16.98	16.96	16.97	16.97						

Band 41 HPUE Ant0												
RW [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 limit (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				39750	40188	40620	41066	41490				
20	QPSK	1	0	24.16	24.17	25.30	25.30	24.23	24.17			
20	QPSK	1	48	24.11	24.21	24.25	24.30	24.10	24.12	24.5	0	
20	QPSK	1	96	24.08	24.20	24.32	24.32	24.12	24.17			
20	QPSK	1	144	24.01	24.26	24.30	24.30	24.10	24.22			
20	QPSK	80	24	24.16	24.26	24.30	24.30	24.10	24.17	24.5	0	
20	QPSK	80	72	24.11	24.26	24.30	24.30	24.10	24.22			
20	QPSK	160	0	24.15	24.12	24.24	24.24	24.10	24.20			
20	16QAM	1	0	24.18	24.22	24.24	24.24	24.23	24.21			
20	16QAM	1	48	24.00	24.00	24.10	24.10	24.00	24.00	24.5	0	
20	16QAM	1	96	24.00	23.98	24.03	23.99	24.01	24.01			
20	16QAM	80	0	23.10	23.13	23.21	23.26	23.10	23.12			
20	16QAM	80	48	23.20	23.13	23.21	23.26	23.10	23.12	24	0.1	
20	16QAM	80	96	23.10	23.11	23.19	23.09	23.11	23.11			
20	16QAM	160	0	23.28	23.23	23.34	23.29	23.27	23.27			
20	16QAM	160	48	23.33	23.26	23.34	23.33	23.26	23.33			
20	16QAM	1	48	23.21	23.22	23.39	23.39	23.23	23.22	24	0.1	
20	16QAM	1	96	23.32	23.28	23.39	23.39	23.23	23.33			
20	16QAM	80	0	22.21	22.17	22.31	22.30	22.10	22.12			
20	16QAM	80	24	22.11	22.07	22.25	21.87	22.10	22.14	23	1.5	
20	16QAM	80	72	22.08	22.03	22.15	21.78	22.04	22.04			
20	16QAM	160	0	22.21	22.30	22.32	22.30	22.20	22.20			
20	256QAM	1	0	20.25	20.20	20.32	20.22	20.10	20.18	21	3.5	
20	256QAM	1	48	20.31	20.23	20.28	20.14	20.12	20.18			
20	256QAM	1	96	20.33	20.26	20.36	20.13	20.17	20.17			
20	256QAM	80	0	19.15	19.10	19.18	19.17	19.18	19.18			
20	256QAM	80	24	19.05	20.07	20.35	20.07	19.05	19.05	21	3.5	
20	256QAM	80	50	19.04	19.80	20.09	19.89	19.09	19.09			
20	256QAM	160	0	20.15	20.13	20.20	20.22	20.20	20.20			
Channel				39728	40173	40626	41088	41510				
Frequency (MHz)				39727	40172	40625	41087	41509				
15	QPSK	1	0	24.05	24.17	24.12	23.98	24.03	24.03			
15	QPSK	1	39	24.05	24.20	24.15	24.08	24.08	24.08	25	0	
15	QPSK	1	78	24.03	24.02	24.11	24.03	24.08	24.08			
15	QPSK	1	117	24.00	24.20	24.16	24.21	24.10	24.10			
15	QPSK	80	20	24.02	24.22	24.17	24.03	24.04	24.04	24.5	0	
15	QPSK	80	59	24.03	24.17	24.12	24.03	24.11	24.11			
15	QPSK	160	0	24.08	24.07	24.15	24.08	24.10	24.10			
15	16QAM	1	0	24.08	24.13	24.15	24.09	24.13	24.13			
15	16QAM	1	39	23.80	24.01	23.93	23.83	23.92	23.92	24.5	0	
15	16QAM	1	78	23.86	23.94	23.99	23.85	23.95	23.95			
15	16QAM	80	0	23.11	23.07	23.08	22.99	23.01	23.01			
15	16QAM	80	39	23.10	23.03	23.10	23.16	23.10	23.10	24	0.5	
15	16QAM	80	78	23.02	22.97	23.15	22.90	23.01	23.01			
15	16QAM	160	0	23.08	23.10	23.16	23.20	23.18	23.18			
15	16QAM	1	0	23.21	23.30	23.39	23.28	23.31	23.31			
15	16QAM	1	37	23.13	22.51	23.16	23.03	23.07	23.07	24	0.5	
15	16QAM	1	74	23.27	23.14	23.14	23.25	23.23	23.23			
15	16QAM	80	0	22.17	22.08	22.23	22.03	22.08	22.08			
15	16QAM	80	39	21.98	22.03	22.00	21.94	22.03	22.03	23	1.5	
15	16QAM	80	78	22.01	22.00	22.01	21.97	22.01	22.01			
15	16QAM	160	0	22.14	22.21	22.23	22.18	22.21	22.21			
15	256QAM	1	0	20.04	19.99	20.04	20.04	20.02	20.01	21	3.5	
15	256QAM	1	37	20.25	20.21	20.31	20.03	20.05	20.05			
15	256QAM	1	74	20.11	20.05	20.05	19.85	19.85	19.85			
15	256QAM	80	20	19.85	19.88	19.88	19.89	19.84	19.84	21	3.5	
15	256QAM	80	39	19.86	19.81	20.05	19.86	19.85	19.85			
15	256QAM	160	0	20.00	20.04	20.07	20.17	20.01	20.01			
Channel				39698	40140	40626	41085	41560				
Frequency (MHz)				39697	40139	40625	41084	41559				
5	QPSK	1	0	24.08	24.16	24.10	24.00	24.00	24.00			
5	QPSK	1	12	23.98	24.17	24.10	23.98	24.07	24.07	24.5	0	
5	QPSK	1	24	23.96	24.24	24.16	23.98	24.08	24.08			
5	QPSK	12	0	24.14	24.15	24.20	24.18	24.18	24.18			
5	QPSK	12	7	24.13	24.21	24.25	24.10	24.07	24.07			
5	QPSK	12	14	24.03	24.22	24.24	24.03	24.12	24.12	24.5	0	
5	QPSK	80	0	24.01	23.99	24.18	24.03	24.08	24.08			
5	16QAM	1	0	24.15	24.14	24.17	24.12	24.12	24.12			
5	16QAM	1	24	24.14	23.98	24.14	23.98	24.08	24.08	24.5	0	
5	16QAM	1	24	23.94	23.95	23.96	23.94	23.92	23.92			
5	16QAM	12	0	23.02	23.05	23.09	23.07	23.07	23.07			
5	16QAM	12	0	23.15	22.99	23.20	23.09	23.11	23.11			
5	16QAM	12	13	23.01	22.99	23.10	22.95	23.05	23.05			
5	16QAM	1	12	23.18	23.13	23.20	23.08	23.12	23.12	24	0.5	
5	16QAM	1	0	23.24	23.31	23.38	23.31	23.26	23.26			
5	16QAM	1	12	23.09	23.11	23.23	23.10	23.05	23.05	24	0.5	
5	16QAM	1	24	23.20	23.21	23.27	23.24	23.20	23.20			
5	16QAM	12	0	21.08	22.02	22.02	21.98	21.99	21.99	23	1.5	
5	16QAM	12	0	22.01	22.01	22.02	22.00	22.01	22.01			
5	16QAM	12	0	22.12	22.23	22.25	22.17	22.17	22.17			
5	256QAM	1	0	20.05	20.05	20.05	20.05	20.12	20.12	21	3.5	
5	256QAM	1	12	20.03	20.04	20.18	19.99	20.07	20.07	21	3.5	
5	256QAM	1	12	20.26	20.18	20.33	20.05	20.05	20.05			
5	256QAM	12	0	20.05	20.08	20.19	19.97	20.04	20.04			
5	256QAM	12	7	19.89	20.00	20.04	20.01	19.89	19.89	21	3.5	
5	256QAM	12	13	20.01	19.78	20.05	19.86	19.96	19.96			
5	256QAM	160	0	20.07	20.03	20.17	20.01	20.15	20.15			



Band 38 Ant2												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.72	22.90	22.86	24	0				
20	QPSK	1	49	22.71	22.84	22.80						
20	QPSK	1	98	22.68	22.77	22.71						
20	QPSK	50	0	21.82	21.90	21.93						
20	QPSK	50	24	21.84	21.89	21.79	23	1				
20	QPSK	50	99	21.88	21.79	21.82						
20	QPSK	100	0	21.81	21.95	21.85						
20	16QAM	1	0	21.76	21.85	21.78						
20	16QAM	1	49	21.68	21.74	21.69	23	1				
20	16QAM	1	99	21.74	21.81	21.73						
20	16QAM	50	0	20.81	20.85	20.80						
20	16QAM	50	24	20.77	20.80	20.70						
20	16QAM	50	50	20.83	20.76	20.71	22	2				
20	16QAM	100	0	20.80	20.96	20.84						
20	16QAM	1	0	20.95	20.95	20.85						
20	16QAM	1	49	20.78	20.91	20.83						
20	16QAM	1	99	20.74	20.84	20.74	21	3				
20	16QAM	50	0	19.78	19.85	19.72						
20	16QAM	50	24	19.76	19.81	19.77						
20	16QAM	50	50	19.88	19.70	19.68						
20	256QAM	1	0	17.84	17.94	17.82	19	5				
20	256QAM	1	49	17.79	17.86	17.85						
20	256QAM	1	99	17.89	17.92	17.84						
20	256QAM	50	0	17.78	17.86	17.73						
20	256QAM	50	24	17.80	17.83	17.74	19	5				
20	256QAM	50	50	17.82	17.78	17.67						
20	256QAM	100	0	17.85	17.87	17.81						
20	256QAM	100	0	17.85	17.87	17.81						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.60	22.75	22.74	24	0				
15	QPSK	1	47	22.68	22.73	22.68						
15	QPSK	1	74	22.63	22.63	22.84						
15	QPSK	36	0	21.79	21.89	21.84						
15	QPSK	36	20	21.75	21.78	21.78	23	1				
15	QPSK	36	49	21.78	21.67	21.67						
15	QPSK	75	0	21.76	21.82	21.70						
15	16QAM	1	0	21.67	21.73	21.65						
15	16QAM	1	47	21.25	21.45	21.47	23	1				
15	16QAM	1	74	21.60	21.70	21.70						
15	16QAM	36	0	20.72	20.73	20.67						
15	16QAM	36	20	20.62	20.65	20.58						
15	16QAM	36	39	20.54	20.70	20.56	22	2				
15	16QAM	75	0	20.81	20.86	20.69						
15	16QAM	1	0	20.78	20.84	20.73						
15	16QAM	1	27	20.68	20.70	20.69						
15	16QAM	1	74	20.63	20.73	20.81	21	3				
15	16QAM	36	0	19.87	19.71	19.82						
15	16QAM	36	20	18.89	19.74	19.64						
15	16QAM	36	39	19.52	19.62	19.52						
15	16QAM	75	0	19.71	19.95	19.75	19	5				
15	256QAM	1	0	17.78	17.82	17.78						
15	256QAM	1	47	17.85	17.84	17.85						
15	256QAM	1	74	17.81	17.82	17.80						
15	256QAM	36	0	17.65	17.81	17.88	19	5				
15	256QAM	36	20	17.75	17.77	17.63						
15	256QAM	36	39	17.48	17.68	17.63						
15	256QAM	75	0	17.70	17.86	17.67						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.48	22.72	22.74	24	0				
10	QPSK	1	25	22.81	22.79	22.73						
10	QPSK	1	49	22.81	22.82	22.65						
10	QPSK	36	0	21.74	21.85	21.81						
10	QPSK	25	12	21.79	21.78	21.69	23	1				
10	QPSK	25	25	21.82	21.82	21.75						
10	QPSK	50	0	21.73	21.86	21.77						
10	16QAM	1	0	21.76	21.70	21.65						
10	16QAM	1	25	21.88	21.86	21.86	23	1				
10	16QAM	1	49	21.64	21.67	21.64						
10	16QAM	25	0	20.70	20.77	20.71						
10	16QAM	25	12	20.68	20.74	20.65						
10	16QAM	25	25	20.46	20.63	20.63	22	2				
10	16QAM	50	0	20.76	20.88	20.79						
10	16QAM	1	0	20.79	20.84	20.72						
10	16QAM	1	25	20.71	20.85	20.77						
10	16QAM	1	49	20.66	20.80	20.62	22	2				
10	16QAM	25	0	19.74	19.82	19.68						
10	16QAM	25	12	19.64	19.70	19.88						
10	16QAM	25	25	19.65	19.65	19.58						
10	16QAM	50	0	19.76	19.87	19.81	21	3				
10	256QAM	1	0	17.74	17.83	17.68						
10	256QAM	1	25	17.88	17.76	17.76						
10	256QAM	1	49	17.81	17.85	17.75						
10	256QAM	25	0	17.68	17.74	17.69	19	5				
10	256QAM	25	12	17.73	17.69	17.64						
10	256QAM	25	25	17.50	17.71	17.63						
10	256QAM	50	0	17.76	17.78	17.78						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.63	22.75	22.74	24	0				
5	QPSK	1	12	22.58	22.70	22.68						
5	QPSK	1	24	22.58	22.69	22.58						
5	QPSK	12	0	21.88	21.82	21.88						
5	QPSK	12	7	21.71	21.77	21.75	23	1				
5	QPSK	12	13	21.79	21.79	21.71						
5	QPSK	26	0	21.74	21.67	21.72						
5	16QAM	1	0	21.72	21.80	21.71						
5	16QAM	1	12	21.62	21.81	21.62	23	1				
5	16QAM	1	24	21.69	21.74	21.68						
5	16QAM	12	0	20.72	20.81	20.69						
5	16QAM	12	7	20.74	20.67	20.58						
5	16QAM	12	13	20.88	20.81	20.62	22	2				
5	16QAM	25	0	20.85	20.92	20.74						
5	16QAM	1	0	20.82	20.91	20.80						
5	16QAM	1	12	20.73	20.86	20.77						
5	16QAM	1	24	20.68	20.77	20.68	22	2				
5	16QAM	12	0	19.88	19.72	19.88						
5	16QAM	12	7	19.72	19.75	19.66						
5	16QAM	12	13	19.88	19.69	19.64						
5	16QAM	25	0	19.71	19.83	19.86	21	3				
5	256QAM	1	0	17.72	17.87	17.74						
5	256QAM	1	12	17.67	17.84	17.75						
5	256QAM	1	24	17.82	17.79	17.77						
5	256QAM	12	0	17.73	17.76	17.65	19	5				
5	256QAM	12	7	17.77	17.76	17.69						
5	256QAM	12	13	17.69	17.65	17.58						
5	256QAM	25	0	17.72	17.83	17.68						

Band 38 HPUE Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	24.75	24.95	24.89	25.5	0	
20	QPSK	1	49	24.71	24.79	24.67			
20	QPSK	1	99	24.69	24.75	24.67			
20	QPSK	50	0	24.85	24.90	24.79			
20	QPSK	50	24	24.81	24.89	24.76	25.5	0	
20	QPSK	50	99	24.83	24.83	24.77			
20	16QAM	1	0	24.72	24.94	24.81	25.5	0	
20	16QAM	1	49	24.68	24.76	24.64			
20	16QAM	1	99	24.66	24.72	24.64			
20	16QAM	50	0	24.82	24.87	24.76			
20	16QAM	50	24	24.78	24.86	24.73	25	0.5	
20	16QAM	50	99	24.80	24.80	24.74			
20	64QAM	1	0	24.70	24.92	24.80	25.5	0.5	
20	64QAM	1	49	24.66	24.74	24.62			
20	64QAM	1	99	24.64	24.70	24.62			
20	64QAM	50	0	24.80	24.85	24.74			
20	64QAM	50	24	24.76	24.84	24.71	25	0.5	
20	64QAM	50	99	24.78	24.78	24.72			
20	256QAM	1	0	24.68	24.90	24.78	22	3.5	
20	256QAM	1	49	24.64	24.72	24.60			
20	256QAM	1	99	24.62	24.68	24.60			
20	256QAM	50	0	24.78	24.83	24.72			
20	256QAM	50	24	24.74	24.82	24.69	22	3.5	
20	256QAM	50	99	24.76	24.76	24.70			
20	256QAM	50	24	24.72	24.79	24.65	22	3.5	
20	256QAM	50	99	24.74	24.80	24.70			
Channel									
Frequency (MHz)									
15	QPSK	1	0	24.73	24.93	24.74	25.5	0	
15	QPSK	1	37	24.61	24.75	24.67			
15	QPSK	1	74	24.63	24.69	24.60			
15	QPSK	36	0	24.87	24.88	24.86			
15	QPSK	36	20	24.71	24.85	24.68	25.5	0	
15	QPSK	36	74	24.69	24.73	24.65			
15	QPSK	75	0	24.78	24.80	24.84	25.5	0	
15	16QAM	1	0	24.83	24.90	24.84			
15	16QAM	1	37	24.70	24.79	24.71			
15	16QAM	1	74	24.67	24.72	24.63			
15	16QAM	36	0	24.82	24.82	24.79	25.5	0	
15	16QAM	36	20	24.67	24.78	24.62			
15	16QAM	36	74	24.69	24.73	24.65	25	0.5	
15	16QAM	36	99	24.60	24.63	24.54			
15	64QAM	1	0	24.76	24.80	24.76	25.5	0.5	
15	64QAM	1	37	24.64	24.67	24.57			
15	64QAM	1	74	24.61	24.66	24.56			
15	64QAM	36	0	24.87	24.88	24.86			
15	64QAM	36	20	24.72	24.81	24.64	24	1.5	
15	64QAM	36	74	24.68	24.72	24.60			
15	64QAM	75	0	24.74	24.78	24.82	25.5	0.5	
15	16QAM	1	0	24.83	24.90	24.84			
15	16QAM	1	37	24.70	24.79	24.71			
15	16QAM	1	74	24.67	24.72	24.63			
15	16QAM	36	0	24.82	24.82	24.79	25.5	0	
15	16QAM	36	20	24.67	24.77	24.62			
15	16QAM	36	74	24.69	24.73	24.61	25	0.5	
15	16QAM	36	99	24.60	24.63	24.54			
15	256QAM	1	0	24.76	24.80	24.76	22	3.5	
15	256QAM	1	37	24.67	24.76	24.68			
15	256QAM	1	74	24.64	24.69	24.63			
15	256QAM	36	0	24.87	24.88	24.86			
15	256QAM	36	20	24.72	24.81	24.64	22	3.5	
15	256QAM	36	74	24.68	24.72	24.60			
15	256QAM	36	99	24.59	24.70	24.53	22	3.5	
15	256QAM	36	99	24.60	24.67	24.57			
Channel									
Frequency (MHz)									
5	QPSK	1	0	24.58	24.74	24.56	25.5	0	
5	QPSK	1	25	24.66	24.68	24.52			
5	QPSK	1	49	24.68	24.67	24.54			
5	QPSK	25	0	24.82	24.87	24.81			
5	QPSK	25	12	24.67	24.84	24.68	25.5	0	
5	QPSK	25	49	24.69	24.82	24.62			
5	QPSK	50	0	24.70	24.86	24.77	25.5	0	
5	16QAM	1	0	24.78	24.81	24.82			
5	16QAM	1	25	24.69	24.70	24.69			
5	16QAM	1	49	24.84	24.78	24.81			
5	16QAM	25	0	24.81	24.83	24.81	25.5	0	
5	16QAM	25	12	24.69	24.73	24.68			
5	16QAM	25	49	24.79	24.80	24.78	25	0.5	
5	16QAM	25	99	24.68	24.71	24.65			
5	64QAM	1	0	24.70	24.73	24.73	25.5	0.5	
5	64QAM	1	25	24.74	24.68	24.71			
5	64QAM	1	49	24.78	24.70	24.74			
5	64QAM	25	0	24.80	24.81	24.80			
5	64QAM	25	12	24.68	24.72	24.68	24	1.5	
5	64QAM	25	49	24.74	24.76	24.74			
5	64QAM	50	0	24.76	24.83	24.82	25	0.5	
5	64QAM	50	25	24.69	24.79	24.70			
5	256QAM	1	0	24.70	24.73	24.73	22	3.5	
5	256QAM	1	25	24.83	24.81	24.83			
5	256QAM	1	49	24.79	24.77	24.77			
5	256QAM	25	0	24.86	24.87	24.86			
5	256QAM	25	12	24.66	24.70	24.66	22	3.5	
5	256QAM	25	49	24.72	24.74	24.72			
5	256QAM	25	99	24.60	24.72	24.50	22	3.5	
5	256QAM	25	99	24.62	24.69	24.52			
Channel									
Frequency (MHz)									
5	QPSK	1	0	24.54	24.68	24.56	25.5	0	
5	QPSK	1	12	24.67	24.75	24.58			
5	QPSK	1	24	24.67	24.71	24.61			
5	QPSK	12	0	24.74	24.79	24.68			
5	QPSK	12	7	24.77	24.85	24.68	25.5	0	
5	QPSK	12	24	24.74	24.77	24.69			
5	QPSK	25	0	24.79	24.87	24.80	25.5	0	
5	QPSK	25	12	24.62	24.71	24.60			
5	QPSK	25	24	24.67	24.71	24.61			
5	QPSK	12	49	24.71	24.78	24.61			
5	16QAM	1	0	24.48	24.57	24.42	25.5	0	
5	16QAM	1	12	24.62	24.63	24.50			
5	16QAM	1	24	24.73	24.69	24.59	25	0.5	
5	16QAM	12	7	24.69	24.80	24.65			
5	16QAM	12	13	24.60	24.63	24.59	25	0.5	
5	16QAM	12	24	24.73	24.68	24.70			
5	64QAM	1	0	24.40	24.50	24.35	25	0.5	
5	64QAM	1	12	24.59	24.59	24.43			
5	64QAM	1	24	24.71	24.71	24.64			
5	64QAM	12	7	24.70	24.80	24.65			
5	64QAM	12	13	24.62	24.62	24.58	24	1.5	
5	64QAM	12	24	24.73	24.70	24.76			
5	64QAM	25	0	24.84	24.88	24.84	22	3.5	
5	64QAM	25	12	24.70	24.73	24.68			
5	256QAM	1	0	24.67	24.72	24.67	22	3.5	
5	256QAM	1	12	24.80	24.80	24.80			
5	256QAM	1	24	24.87	24.72	24.72			
5	256QAM	12	7	24.67	24.88	24.67			
5	256QAM	12	7	24.59	24.87	24.53	22	3.5	
5	256QAM	12	13	24.62	24.62	24.54			

Band 41 Ant2												
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Mid Ch / Freq.	Power High Mid Ch / Freq.	Power Low Hgh Ch / Freq.	Power High Hgh Ch / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				39750	40185	40620	41055	41490	41925			
20	QPSK	1	5	22.71	22.85	22.84	22.89	22.88	22.88			
20	QPSK	1	40	22.65	22.73	22.79	22.75	22.72	22.72	24	0	
20	QPSK	1	80	22.78	22.75	22.84	22.71	22.78	22.78			
20	QPSK	50	5	21.79	21.90	21.94	21.85	21.80	21.80			
20	QPSK	50	24	21.76	21.72	21.85	21.78	21.75	21.75	23	1	
20	QPSK	50	40	21.80	21.82	21.81	21.78	21.75	21.75			
20	QPSK	100	5	21.82	21.86	21.90	21.79	21.84	21.84			
20	16QAM	1	5	21.81	21.83	21.88	21.81	21.79	21.79	23	1	
20	16QAM	1	40	21.71	21.72	21.81	21.68	21.68	21.68			
20	16QAM	1	99	21.86	21.82	21.75	21.89	21.83	21.83			
20	16QAM	50	5	20.79	20.89	20.84	20.99	20.92	20.92			
20	16QAM	50	24	20.77	20.88	20.83	20.76	20.71	20.71	22	2	
20	16QAM	50	50	20.77	20.80	20.88	20.83	20.84	20.84			
20	16QAM	100	5	20.87	20.76	20.90	20.84	20.76	20.76			
20	16QAM	1	5	20.52	20.81	20.93	20.75	20.52	20.52			
20	16QAM	1	40	20.79	20.80	20.91	20.88	20.77	20.77	22	2	
20	16QAM	1	99	20.75	20.81	20.84	20.72	20.71	20.71			
20	16QAM	50	5	19.73	19.70	19.84	19.70	19.78	19.78			
20	16QAM	50	24	19.86	19.73	19.77	19.85	19.84	19.84	21	3	
20	16QAM	50	50	19.70	19.71	19.79	19.74	19.70	19.70			
20	16QAM	100	5	19.79	19.78	19.92	19.81	19.79	19.79			
20	256QAM	1	5	17.77	17.84	17.90	17.82	17.84	17.84			
20	256QAM	1	40	17.73	17.75	17.83	17.72	17.75	17.75	19	5	
20	256QAM	1	99	17.66	17.70	17.78	17.67	17.66	17.66			
20	256QAM	50	5	17.63	17.68	17.76	17.60	17.78	17.78			
20	256QAM	50	24	17.69	17.70	17.74	17.66	17.61	17.61	19	5	
20	256QAM	50	50	17.68	17.68	17.80	17.73	17.71	17.71			
20	256QAM	100	5	17.68	17.68	17.80	17.78	17.69	17.69			
Channel												
Frequency (MHz)				39753	40173	40620	41058	41491	41915	Turn-up limit (dBm)	MPR (dB)	
Power (dBm)				26.6	26.6	26.6	26.6	26.6	26.6			
15	QPSK	1	5	22.61	22.72	22.86	22.81	22.82	22.82			
15	QPSK	1	37	22.52	22.68	22.66	22.83	22.67	22.67	24	0	
15	QPSK	1	74	22.71	22.67	22.72	22.84	22.74	22.74			
15	QPSK	36	5	21.72	21.87	21.86	21.71	21.75	21.75			
15	QPSK	36	20	21.69	21.57	21.78	21.64	21.70	21.70	23	1	
15	QPSK	36	40	21.68	21.73	21.68	21.68	21.68	21.68			
15	QPSK	75	5	21.67	21.60	21.76	21.67	21.77	21.77			
15	16QAM	1	5	21.71	21.76	21.82	21.75	21.86	21.86			
15	16QAM	1	37	21.61	21.60	21.69	21.54	21.57	21.57	23	1	
15	16QAM	1	74	21.55	21.56	21.67	21.84	21.57	21.57			
15	16QAM	36	5	20.72	20.72	20.90	20.74	20.77	20.77			
15	16QAM	36	20	20.64	20.54	20.85	20.65	20.65	20.65	22	2	
15	16QAM	36	39	20.68	20.69	20.75	20.73	20.78	20.78			
15	16QAM	75	5	20.78	20.82	20.80	20.76	20.84	20.84			
15	16QAM	1	37	20.71	20.72	20.89	20.75	20.68	20.68	22	2	
15	16QAM	1	74	20.75	20.76	20.77	20.87	20.87	20.87			
15	256QAM	1	5	19.64	19.68	19.77	19.65	19.74	19.74	21	3	
15	256QAM	36	20	19.54	19.69	19.71	19.59	19.52	19.52			
15	256QAM	36	39	19.58	19.68	19.68	19.55	19.55	19.55	21	3	
15	256QAM	75	5	19.75	19.74	19.85	19.76	19.85	19.85			
15	256QAM	1	5	17.64	17.73	17.75	17.78	17.71	17.71	19	5	
15	256QAM	1	37	17.69	17.72	17.84	17.61	17.62	17.62			
15	256QAM	1	74	17.60	17.60	17.72	17.63	17.59	17.59			
15	256QAM	36	5	17.73	17.68	17.73	17.75	17.63	17.63	19	5	
15	256QAM	36	20	17.63	17.61	17.68	17.60	17.52	17.52			
15	256QAM	36	39	17.67	17.61	17.66	17.61	17.61	17.61	19	5	
15	256QAM	75	5	17.66	17.60	17.85	17.72	17.64	17.64			
Channel												
Frequency (MHz)				39750	40160	40620	41058	41490	41940	Turn-up limit (dBm)	MPR (dB)	
Power (dBm)				26.6	26.6	26.6	26.6	26.6	26.6			
5	QPSK	1	5	22.67	22.78	22.88	22.80	22.80	22.80			
5	QPSK	1	25	22.59	22.81	22.72	22.80	22.80	22.80	24.00	0	
5	QPSK	1	40	22.70	22.63	22.78	22.82	22.74	22.74			
5	QPSK	25	5	21.75	21.79	21.84	21.75	21.79	21.79			
5	QPSK	25	12	21.74	21.68	21.73	21.71	21.72	21.72	23	1	
5	QPSK	25	25	21.73	21.76	21.81	21.74	21.75	21.75			
5	QPSK	50	5	21.70	21.74	21.79	21.75	21.75	21.74			
5	16QAM	1	5	21.67	21.74	21.77	21.68	21.72	21.72			
5	16QAM	1	25	21.68	21.69	21.76	21.58	21.60	21.60	23	1	
5	16QAM	1	40	21.61	21.57	21.63	21.63	21.60	21.60			
5	16QAM	25	5	20.70	20.70	20.82	20.85	20.74	20.74			
5	16QAM	25	19	20.69	20.56	20.75	20.68	20.59	20.59	22	2	
5	16QAM	25	39	20.75	20.73	20.81	20.80	20.75	20.75			
5	16QAM	50	5	20.76	20.85	20.80	20.81	20.71	20.71			
5	16QAM	50	19	20.69	20.69	20.80	20.79	20.74	20.74			
5	16QAM	1	25	20.73	20.74	20.78	20.77	20.69	20.69	22	2	
5	16QAM	1	40	20.70	20.68	20.70	20.67	20.57	20.57			
5	16QAM	25	5	19.69	19.69	19.78	19.63	19.63	19.63	21	3	
5	16QAM	25	12	19.61	19.68	19.64	19.53	19.59	19.59			
5	16QAM	25	25	19.56	19.57	19.75	19.63	19.66	19.66			
5	16QAM	50	5	19.78	19.64	19.64	19.69	19.67	19.67			
5	256QAM	1	5	17.73	17.71	17.77	17.77	17.73	17.73			
5	256QAM	1	25	17.66	17.61	17.70	17.60	17.71	17.71	19	5	
5	256QAM	1	40	17.58	17.57	17.64	17.59	17.58	17.58			
5	256QAM	11	7	17.73	17.64	17.83	17.77	17.63	17.63			
5	256QAM	25	12	17.66	17.60	17.63	17.54	17.62	17.62	19	5	
5	256QAM	25	25	17.51	17.54	17.73	17.61	17.53	17.53			
5	256QAM	50	5	17.61	17.75	17.81	17.75	17.79	17.79			
Channel												
Frequency (MHz)				39675	40144	40620	41059	41490	41965	Turn-up limit (dBm)	MPR (dB)	
Power (dBm)				26.6	26.6	26.6	26.6	26.6	26.6			
5	QPSK	1	5	22.65	22.75	22.84	22.84	22.78	22.78			
5	QPSK	1	12	22.51	22.63	22.67	22.87	22.67	22.67	24.00	0	
5	QPSK	1	24	22.63	22.58	22.78	22.58	22.66	22.66			
5	QPSK	12	5	21.66	21.63	21.80	21.73	21.76	21.76			
5	QPSK	12	7	21.71	21.68	21.79	21.69	21.74	21.74	23	1	
5	QPSK	12	13	21.66	21.79	21.80	21.73	21.79	21.79			
5	QPSK	25	5	21.70	21.72	21.79	21.75	21.74	21.74			
5	16QAM	1	5	21.69	21.79	21.75	21.78	21.68	21.68	23	1	
5	16QAM	1	12	21.61	21.68	21.73	21.62	21.61	21.61			
5	16QAM	1	24	21.66	21.68	21.80	21.66	21.67	21.67			
5	16QAM	12	7	20.64	20.60	20.70	20.69	20.63	20.63	22	2	
5	16QAM	12	13	20.70	20.70	20.76	20.72	20.70	20.70			
5	16QAM	25	5	20.75	20.67	20.76	20.69	20.68	20.68			
5	16QAM	1	5	20.79	20.73	20.85	20.84	20.71	20.71	22	2	
5	16QAM	1	12	20.71	20.74	20.87	20.79	20.66	20.66			
5	16QAM	1	24	20.71	20.67	20.80	20.63	20.66	20.66			
5	16QAM	12	5	19.63	19.66	19.78	19.66	19.71	19.71	21	3	
5	16QAM	12	7	19.63	19.69	19.69	19.55	19.56	19.56			
5	16QAM	25	5	19.68	19.63	19.67	19.66	19.66	19.66			
5	16QAM	25	12	19.64	19.63	19.67	19.56	19.56	19.56			
5	256QAM	1	5	17.74	17.76	17.83	19.69	19.69	19.69			
5	256QAM	1	12	17.68	17.72	17.84	17.61	17.62	17.62			
5	256QAM	12	7	17.59	17.56	17.69	17.68	17.67	17.67			
5	256QAM	12	13	17.57	17.60	17.73	17.52	17.58	17.58			
5	256QAM	25	5	17.78	17.74	17.84	17.76	17.71	17.71			
5	256QAM	25										



Band 42 FCC Part27Q Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				20.91	21.15	21.10			
20	QPSK	1	0	20.91	21.15	21.10	21.5	0	
20	QPSK	1	49	20.96	21.11	21.04			
20	QPSK	1	98	20.98	21.02	20.91			
20	QPSK	50	0	19.09	19.15	19.07			
20	QPSK	50	24	19.03	19.07	18.96	20.5	1	
20	QPSK	50	50	18.91	18.95	18.89			
20	QPSK	100	0	19.01	19.05	18.97			
20	16QAM	1	0	19.69	20.05	19.95	20.5	1	
20	16QAM	1	49	19.74	19.97	19.94			
20	16QAM	1	99	20.04	20.10	19.98			
20	16QAM	50	24	17.92	18.07	17.93			
20	16QAM	50	50	18.11	18.15	18.07	19.5	2	
20	16QAM	50	50	17.96	18.02	17.87			
20	16QAM	100	0	18.03	18.06	18.01			
20	16QAM	1	0	19.13	19.15	19.09			
20	16QAM	1	49	18.97	19.11	18.99	19.5	2	
20	16QAM	1	99	19.03	19.07	18.98			
20	16QAM	50	24	17.00	17.10	17.06			
20	16QAM	100	0	16.97	17.02	16.98			
20	256QAM	1	0	19.65	19.70	19.57			
20	256QAM	1	49	19.61	19.72	19.48	20.5	1	
20	256QAM	1	99	19.51	19.63	19.49			
20	256QAM	50	24	19.11	19.17	19.07			
20	256QAM	50	24	19.06	19.48	19.61	20.5	1	
20	256QAM	50	50	19.61	19.70	19.48			
20	256QAM	100	0	19.62	19.70	19.74			
Channel				42196	42596	43016	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				347.3	350.3	354.3			
15	QPSK	1	0	20.82	21.13	21.06	21.5	0	
15	QPSK	1	47	20.82	21.04	20.98			
15	QPSK	1	74	20.91	20.96	20.83			
15	QPSK	36	0	19.05	19.01	19.01			
15	QPSK	36	20	18.92	18.97	18.89	20.5	1	
15	QPSK	36	36	18.97	18.92	18.86			
15	16QAM	1	0	18.87	19.05	19.05			
15	16QAM	1	47	19.73	19.87	19.77	20.5	1	
15	16QAM	1	74	19.06	20.02	19.85			
15	16QAM	36	0	17.87	18.01	17.84			
15	16QAM	36	36	18.02	18.04	17.92	19.5	2	
15	16QAM	36	36	17.82	17.98	17.73			
15	16QAM	75	0	17.82	17.87	17.88			
15	16QAM	1	0	19.07	19.07	19.03			
15	16QAM	1	27	18.98	19.09	18.89	19.5	2	
15	16QAM	1	74	18.96	19.05	18.98			
15	16QAM	36	0	16.88	16.84	16.97			
15	16QAM	36	20	16.89	16.93	16.78	18.5	3	
15	16QAM	36	36	17.02	17.05	16.92			
15	16QAM	75	0	16.95	16.95	16.92			
15	256QAM	1	0	19.46	19.67	19.52	20.5	1	
15	256QAM	1	47	19.75	19.84	19.48			
15	256QAM	1	74	19.42	19.57	19.48			
15	256QAM	36	0	19.61	19.73	19.54	20.5	1	
15	256QAM	36	20	19.51	19.59	19.59			
15	256QAM	36	36	19.59	19.68	19.59			
15	256QAM	75	0	19.47	19.65	19.60			
Channel				42140	42540	43040	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				345.5	350.5	354.5			
10	QPSK	1	0	20.48	21.04	21.01	21.5	0	
10	QPSK	1	25	20.86	20.97	20.96			
10	QPSK	1	49	20.83	20.99	20.83			
10	QPSK	25	0	18.96	19.02	18.94			
10	QPSK	25	12	18.96	18.97	18.87	20.5	1	
10	QPSK	25	25	18.83	18.92	18.79			
10	QPSK	50	0	18.94	19.01	18.92			
10	16QAM	1	0	19.91	20.00	19.80	20.5	1	
10	16QAM	1	25	19.78	19.84	19.77			
10	16QAM	1	49	19.97	20.05	19.86			
10	16QAM	25	0	17.88	18.02	17.89			
10	16QAM	25	12	17.88	18.02	17.84	19.5	2	
10	16QAM	25	25	17.82	17.97	17.76			
10	16QAM	50	0	17.96	17.88	18.01			
10	16QAM	1	0	19.03	19.11	18.94			
10	16QAM	1	25	18.91	18.96	18.94	19.5	2	
10	16QAM	1	49	18.92	19.05	18.87			
10	16QAM	25	0	16.86	17.03	16.91			
10	16QAM	25	12	16.75	16.88	16.72	18.5	3	
10	16QAM	25	25	16.84	17.00	17.02			
10	16QAM	50	0	16.90	16.90	16.77			
10	256QAM	1	0	19.52	19.59	19.42	20.5	1	
10	256QAM	1	25	19.34	19.46	19.39			
10	256QAM	1	49	19.45	19.54	19.34			
10	256QAM	25	0	19.58	19.67	19.48			
10	256QAM	25	12	19.47	19.50	19.44	20.5	1	
10	256QAM	25	25	19.45	19.55	19.35			
10	256QAM	50	0	19.54	19.67	19.49			
Channel				42116	42516	43066	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				345.1	350.1	354.6			
5	QPSK	1	0	20.86	21.12	21.05	21.5	0	
5	QPSK	1	12	20.90	21.05	20.99			
5	QPSK	1	24	20.98	20.99	20.85			
5	QPSK	12	0	19.03	19.09	19.00	20.5	1	
5	QPSK	12	7	18.97	19.01	18.90			
5	QPSK	12	13	18.85	18.98	18.83			
5	QPSK	26	0	18.98	19.00	18.99			
5	16QAM	1	0	19.94	20.00	19.80	20.5	1	
5	16QAM	1	12	19.78	19.80	19.77			
5	16QAM	1	24	19.98	20.05	19.91			
5	16QAM	12	0	17.86	18.01	17.87			
5	16QAM	12	7	18.05	18.06	18.00	19.5	2	
5	16QAM	12	13	17.88	17.97	17.82			
5	16QAM	26	0	17.97	18.00	17.97			
5	16QAM	1	0	19.07	19.11	19.03			
5	16QAM	1	12	18.92	19.05	18.94	19.5	2	
5	16QAM	1	24	18.98	19.02	18.92			
5	16QAM	12	7	16.77	16.91	16.80	18.5	3	
5	16QAM	26	0	16.93	16.98	16.82			
5	256QAM	1	0	19.49	19.64	19.51	20.5	1	
5	256QAM	1	12	19.38	19.46	19.41			
5	256QAM	1	24	19.45	19.57	19.34			
5	256QAM	12	0	19.61	19.62	19.54	20.5	1	
5	256QAM	12	13	19.54	19.63	19.61			
5	256QAM	26	0	19.58	19.69	19.67			

Band 42 FCC Part96 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)	
Channel				43190	43340	43490			
Frequency (MHz)				20.85	21.15	20.99			
20	QPSK	1	0	20.85 <td>21.15</td> <td>20.99</td> <td></td> <td></td> <td></td>	21.15	20.99			
20	QPSK	1	49	20.83	21.05	20.97	21.5	0	
20	QPSK	50	0	20.88	20.95	20.82			
20	QPSK	50	24	18.88	18.97	18.84	20.5	1	
20	QPSK	50	50	18.77	18.86	18.75			
20	QPSK	100	0	18.89	18.92	18.84			
20	16QAM	1	0	19.85	19.91	19.82	20.5	1	
20	16QAM	1	49	19.75	19.85	19.72			
20	16QAM	1	99	19.92	20.01	19.87			
20	16QAM	50	0	17.83	17.92	17.88			
20	16QAM	50	24	17.80	17.91	17.79	19.5	2	
20	16QAM	50	50	17.85	17.96	17.74			
20	16QAM	100	0	17.82	17.84	17.82			
20	16QAM	1	0	19.05	19.09	19.03			
20	16QAM	1	49	18.87	19.04	18.88	19.5	2	
20	16QAM	1	99	18.95	18.95	18.87			
20	16QAM	50	24	16.88	16.86	16.80			
20	16QAM	50	50	16.89	16.86	16.80	18.5	3	
20	16QAM	50	99	16.88	17.01	16.97			
20	16QAM	100	0	16.87	16.89	16.82			
20	256QAM	1	0	19.50	19.64	19.44	20.5	1	
20	256QAM	1	49	19.31	19.44	19.38			
20	256QAM	1	99	19.40	19.54	19.49			
20	256QAM	50	24	18.72	18.86	18.66	20.5	1	
20	256QAM	50	24	18.41	19.57	19.48			
20	256QAM	50	50	19.62	19.55	19.60			
20	256QAM	100	0	19.62	19.46	19.67			
Channel				43185	43340	43515			
Frequency (MHz)				347.3	347.5	350.5			
15	QPSK	1	0	20.69 <td>21.18<td>20.93</td><td></td><td></td><td></td></td>	21.18 <td>20.93</td> <td></td> <td></td> <td></td>	20.93			
15	QPSK	1	37	20.68 <td>20.91<td>20.89</td><td>21.5</td><td>0</td><td></td></td>	20.91 <td>20.89</td> <td>21.5</td> <td>0</td> <td></td>	20.89	21.5	0	
15	QPSK	1	74	20.80 <td>20.90</td> <td>20.71</td> <td></td> <td></td> <td></td>	20.90	20.71			
15	QPSK	36	0	18.91	18.98	18.91			
15	QPSK	36	20	18.87	18.85	18.77	20.5	1	
15	QPSK	36	36	18.72	18.81	18.72			
15	QPSK	75	0	18.81	18.92	18.75			
15	16QAM	1	0	19.79	19.89	19.80	20.5	1	
15	16QAM	1	37	19.83	19.93	19.73			
15	16QAM	1	74	19.88	19.97	19.77			
15	16QAM	36	0	17.81	17.82	17.73			
15	16QAM	36	20	17.72	17.84	17.68	19.5	2	
15	16QAM	36	36	17.76	17.87	17.63			
15	16QAM	75	0	17.76	17.87	17.73			
15	16QAM	1	0	19.07	19.09	19.03			
15	16QAM	1	37	18.77	18.97	18.76	19.5	2	
15	16QAM	1	74	18.84	18.95	18.65			
15	16QAM	36	0	16.82	16.88	16.80			
15	16QAM	36	20	16.97	16.80	16.80	18.5	3	
15	16QAM	36	36	16.76	16.80	16.80			
15	16QAM	75	0	16.78	16.75	16.74			
15	16QAM	1	0	19.09	19.10	19.03			
15	16QAM	1	37	19.30	19.39	19.27			
15	256QAM	1	0	19.28	19.48	19.28	20.5	1	
15	256QAM	1	37	19.43	19.43	19.43			
15	256QAM	1	74	19.48	19.49	19.43			
15	256QAM	36	20	19.41	19.49	19.33	20.5	1	
15	256QAM	36	36	19.38	19.54	19.49			
15	256QAM	75	0	19.62	19.61	19.60			
Channel				43180	43340	43500			
Frequency (MHz)				347.3	347.5	350.5			
10	QPSK	1	0	20.70	21.01	20.94			
10	QPSK	1	25	20.74	20.88	20.84	21.5	0	
10	QPSK	25	0	18.89	18.93	18.90			
10	QPSK	25	12	18.90	18.86	18.81			
10	QPSK	25	25	18.75	18.81	18.75	20.5	1	
10	QPSK	50	0	18.88	18.88	18.80			
10	16QAM	1	0	19.82	19.92	19.75	20.5	1	
10	16QAM	1	25	19.89	19.79	19.79			
10	16QAM	1	49	19.89	19.91	19.73			
10	16QAM	25	0	17.72	17.84	17.64			
10	16QAM	25	12	17.70	17.82	17.68	19.5	2	
10	16QAM	25	25	17.73	17.85	17.63			
10	16QAM	50	0	17.83	17.80	17.68			
10	16QAM	1	0	19.04	19.00	18.87			
10	16QAM	1	25	18.82	18.87	18.75	19.5	2	
10	16QAM	1	49	18.80	18.83	18.73			
10	16QAM	25	0	16.74	16.89	16.82			
10	16QAM	25	12	16.81	16.76	16.82	18.5	3	
10	16QAM	25	25	16.82	16.79	16.80			
10	16QAM	50	0	16.83	16.83	16.66			
10	16QAM	50	25	16.84	16.80	16.69	18.5	3	
10	256QAM	1	0	19.48	19.49	19.39			
10	256QAM	1	25	19.24	19.32	19.33			
10	256QAM	1	49	19.24	19.48	19.49			
10	256QAM	25	0	19.43	19.43	19.43			
10	256QAM	25	12	19.39	19.44	19.42	20.5	1	
10	256QAM	25	25	19.33	19.47	19.46			
10	256QAM	50	0	19.43	19.43	19.43			
Channel				43115	43340	43560			
Frequency (MHz)				20.79	20.94	20.94			
5	QPSK	1	0	20.79 <td>21.01</td> <td>20.94</td> <td></td> <td></td> <td></td>	21.01	20.94			
5	QPSK	1	12	20.85 <td>20.96</td> <td>20.94</td> <td>21.5</td> <td>0</td> <td></td>	20.96	20.94	21.5	0	
5	QPSK	12	0	18.93 <td>19.03</td> <td>18.95</td> <td></td> <td></td> <td></td>	19.03	18.95			
5	QPSK	12	7	18.96	19.03	18.95			
5	QPSK	12	7	18.73	18.91	18.84	20.5	1	
5	QPSK	25	0	18.82	18.98	18.73			
5	QPSK	25	12	19.66	19.66	19.60			
5	QPSK	25	12	19.66	19.66	19.60	20.5	1	
5	16QAM	1	24	19.83	19.92	19.75			
5	16QAM	1	24	19.83	19.92	19.75			
5	16QAM	12	7	17.91	18.04	17.97	19.5	2	
5	16QAM	12	13	17.83	17.86	17.89			
5	16QAM	12	13	17.84	17.84	17.84			
5	16QAM	1	0	19.00	18.99	18.89			
5	16QAM	1	12	18.80	18.88	18.87	19.5	2	
5	16QAM	1	24	18.84	18.84	18.84			
5	16QAM	12	0	16.87	16.88	16.85	18.5	3	
5	16QAM	12	0	16.88	16.88	16.85			
5	16QAM	25	0	16.79	16.80	16.70			
5	256QAM	1	12	19.33	19.43	19.43			
5	256QAM	1	12	19.22	19.34	19.38	20.5	1	
5	256QAM	1	24	19.29	19.45	19.47			
5	256QAM	12	0	19.63	19.64	19.64			
5	256QAM	12	7	19.36	19.49	19.49			
5	256QAM	12	13	19.48	19.54	19.48			
5	256QAM	12	13	19.48	19.52	19.48	20.5	1	



Band 43 for FCC use Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				43650	44000	44400			
20	QPSK	1	0	20.73	21.52	20.77	21.5	0	
20	QPSK	1	49	20.71	20.80	20.74			
20	QPSK	1	98	20.20	20.60	20.77			
20	QPSK	50	0	18.86	19.50	18.78	20.5	1	
20	QPSK	50	24	18.81	18.84	18.74			
20	QPSK	50	50	18.70	18.70	18.78			
20	QPSK	100	0	18.75	18.84	18.76	20.5	1	
20	HQAM	1	0	19.84	19.87	19.72			
20	HQAM	1	49	19.79	19.77	19.82			
20	HQAM	1	99	19.75	19.83	19.78	19.5	2	
20	HQAM	50	0	17.86	17.80	17.84			
20	HQAM	50	50	17.81	17.78	17.81			
20	HQAM	50	50	17.87	17.78	17.83	19.5	2	
20	HQAM	100	0	17.74	17.87	17.77			
20	HQAM	1	0	19.85	19.85	19.81			
20	HQAM	1	49	18.83	18.82	18.83	18.5	3	
20	HQAM	1	99	18.80	18.95	18.82			
20	HQAM	50	24	16.81	16.82	16.87			
20	HQAM	50	50	16.85	16.85	16.81	20.5	1	
20	HQAM	100	0	16.69	16.82	16.74			
20	25QAM	1	0	19.45	19.58	19.45	20.5	1	
20	25QAM	1	49	19.46	19.47	19.49			
20	25QAM	1	99	19.46	19.49	19.51			
20	25QAM	50	24	19.59	19.59	19.59	20.5	1	
20	25QAM	50	24	19.59	19.60	19.59			
20	25QAM	50	50	19.59	19.60	19.62			
Channel									
Frequency (MHz)				43655	44005	44515	Tune-up Int. (dBm)	MPR (dB)	
3677.5				3677.5	3677.5	3677.5			
15	QPSK	1	0	20.73	20.92	20.68	21.5	0	
15	QPSK	1	47	20.68	20.70	20.63			
15	QPSK	1	74	20.71	20.71	20.68			
15	QPSK	36	0	18.79	18.82	18.68	20.5	1	
15	QPSK	36	20	18.73	18.75	18.69			
15	QPSK	36	36	18.74	18.74	18.74			
15	QPSK	75	0	18.71	18.79	18.74	20.5	1	
15	HQAM	1	0	19.77	19.77	19.64			
15	HQAM	1	37	19.68	19.74	19.74			
15	HQAM	1	74	19.66	19.71	19.70	19.5	2	
15	HQAM	36	0	17.74	17.78	17.72			
15	HQAM	36	20	17.70	17.71	17.70			
15	HQAM	36	39	17.81	17.75	17.79	19.5	2	
15	HQAM	75	0	17.60	17.76	17.75			
15	HQAM	1	0	18.79	18.81	18.81			
15	HQAM	1	37	18.69	18.79	18.72	18.5	3	
15	HQAM	1	74	18.69	18.75	18.74			
15	HQAM	36	0	16.79	16.82	16.78			
15	HQAM	36	20	16.89	16.78	16.73	20.5	1	
15	HQAM	36	39	16.89	16.79	16.85			
15	HQAM	75	0	16.59	16.70	16.65			
15	25QAM	1	0	19.36	19.48	19.37	20.5	1	
15	25QAM	1	37	19.41	19.35	19.38			
15	25QAM	1	74	19.51	19.41	19.48			
15	25QAM	36	0	19.44	19.57	19.49	20.5	1	
15	25QAM	36	20	19.53	19.49	19.47			
15	25QAM	36	39	19.44	19.46	19.45			
15	25QAM	75	0	19.42	19.45	19.34			
Channel									
Frequency (MHz)				43660	44005	44560	Tune-up Int. (dBm)	MPR (dB)	
3677.5				3677.5	3677.5	3677.5			
10	QPSK	1	0	20.79	20.90	20.72	21.5	0	
10	QPSK	1	25	20.58	20.77	20.58			
10	QPSK	1	49	20.68	20.78	20.72			
10	QPSK	25	0	18.75	18.86	18.72	20.5	1	
10	QPSK	25	12	18.74	18.73	18.65			
10	QPSK	25	25	18.66	18.73	18.65			
10	QPSK	50	0	18.64	18.77	18.63	20.5	1	
10	HQAM	1	0	19.76	19.83	19.67			
10	HQAM	1	25	19.69	19.83	19.68			
10	HQAM	1	49	19.69	19.80	19.65	19.5	2	
10	HQAM	25	0	17.74	17.77	17.70			
10	HQAM	25	12	17.78	17.67	17.75			
10	HQAM	25	25	17.81	17.72	17.74	19.5	2	
10	HQAM	50	0	17.63	17.77	17.62			
10	HQAM	1	0	18.86	18.83	18.82	18.5	3	
10	HQAM	1	25	18.70	18.84	18.72			
10	HQAM	1	49	18.70	18.81	18.78			
10	HQAM	25	0	16.74	16.80	16.81	20.5	1	
10	HQAM	25	12	16.87	16.77	16.78			
10	HQAM	25	25	16.75	16.71	16.70			
10	HQAM	50	0	16.67	16.87	16.69	20.5	1	
10	HQAM	50	0	16.67	16.80	16.69			
10	25QAM	1	0	19.32	19.51	19.43			
10	25QAM	1	25	19.43	19.41	19.45	20.5	1	
10	25QAM	1	49	19.40	19.35	19.45			
10	25QAM	25	0	19.39	19.52	19.37			
10	25QAM	25	12	19.47	19.40	19.54	20.5	1	
10	25QAM	25	25	19.40	19.53	19.40			
10	25QAM	50	0	19.34	19.45	19.32			
Channel									
Frequency (MHz)				43665	44005	44565	Tune-up Int. (dBm)	MPR (dB)	
3677.5				3677.5	3677.5	3677.5			
5	QPSK	1	0	20.79	20.96	20.72	21.5	0	
5	QPSK	1	12	20.58	20.74	20.58			
5	QPSK	1	24	20.74	20.80	20.70			
5	QPSK	12	0	18.79	18.87	18.71	20.5	1	
5	QPSK	12	7	18.75	18.79	18.68			
5	QPSK	12	13	18.64	18.76	18.69			
5	QPSK	25	0	18.69	18.79	18.71	20.5	1	
5	HQAM	1	0	19.79	19.81	19.66			
5	HQAM	1	12	19.74	19.71	19.78			
5	HQAM	1	24	19.69	19.78	19.73	19.5	2	
5	HQAM	12	0	17.81	17.84	17.78			
5	HQAM	12	7	17.78	17.75	17.78			
5	HQAM	12	13	17.80	17.71	17.77	18.5	2	
5	HQAM	25	0	17.67	17.81	17.71			
5	HQAM	1	0	18.82	18.80	18.80			
5	HQAM	1	12	18.76	18.87	18.78	18.5	3	
5	HQAM	1	24	18.76	18.82	18.76			
5	HQAM	12	0	16.75	16.80	16.86			
5	HQAM	12	7	16.85	16.75	16.81	20.5	1	
5	HQAM	12	13	16.79	16.80	16.74			
5	HQAM	25	0	16.64	16.76	16.67			
5	25QAM	1	0	19.40	19.52	19.43	20.5	1	
5	25QAM	1	12	19.41	19.42	19.43			
5	25QAM	1	24	19.41	19.43	19.45			
5	25QAM	12	0	19.43	19.58	19.46	20.5	1	
5	25QAM	12	7	19.52	19.55	19.53			
5	25QAM	12	13	19.45	19.55	19.47			
5	25QAM	25	0	19.43	19.46	19.34			

Band 48_FCC Ant3												
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.				
Channel												
Frequency (MHz)				56400	56800	561600	56400	56400				
20	QPSK	1	0	20.46	20.60	20.53	20.34	20.34	21.5	0		
20	QPSK	1	49	20.41	20.56	20.43	20.33	20.33				
20	QPSK	1	99	20.40	20.51	20.49	20.30	20.30				
20	QPSK	50	0	19.14	19.19	19.16	19.07	19.07	20.5	1		
20	QPSK	50	24	19.08	19.12	19.03	18.96	18.96				
20	QPSK	50	50	19.11	19.18	19.09	18.99	18.99				
20	QPSK	100	0	19.12	19.15	19.01	18.95	18.95	20.5	1		
20	16QAM	1	0	19.91	19.96	19.92	19.69	19.69				
20	16QAM	1	49	19.84	19.84	19.84	19.77	19.77				
20	16QAM	1	99	19.81	19.82	19.82	19.70	19.70	18.5	3		
20	16QAM	50	0	17.95	18.07	17.93	17.80	17.80				
20	16QAM	50	24	17.95	17.99	17.99	17.88	17.88				
20	16QAM	50	50	17.99	17.93	17.95	17.87	17.87	18.5	2		
20	16QAM	100	0	18.13	18.17	18.11	17.94	17.94				
20	16QAM	100	0	18.11	18.22	18.05	17.88	17.88				
20	64QAM	1	49	18.69	18.67	18.80	18.70	18.70	18.5	2		
20	64QAM	1	99	18.63	18.64	18.84	18.74	18.74				
20	64QAM	50	0	16.96	17.08	17.02	16.88	16.88				
20	64QAM	50	24	16.95	17.05	16.93	16.86	16.86	18.5	3		
20	64QAM	50	50	17.01	17.00	16.98	16.91	16.91				
20	64QAM	100	0	17.02	17.16	17.13	17.01	17.01				
20	256QAM	1	0	19.87	19.72	19.69	19.49	19.49	20.5	1		
20	256QAM	1	49	19.81	19.58	19.58	19.51	19.51				
20	256QAM	1	99	19.87	19.67	19.68	19.49	19.49				
20	256QAM	50	0	19.87	19.74	19.67	19.49	19.49	20.5	1		
20	256QAM	50	24	19.62	19.63	19.57	19.39	19.39				
20	256QAM	50	50	19.65	19.68	19.68	19.59	19.59				
Channel				56516	56820	561600	56516	56516	Time-up limit (dBm)	MPE (dB)		
Frequency (MHz)				56524	56828	561600	56524	56524				
15	QPSK	1	37	20.37	20.52	20.38	20.24	20.24	21.5	0		
15	QPSK	1	74	20.40	20.50	20.49	20.21	20.21				
15	QPSK	1	100	20.40	20.58	20.43	20.18	20.18				
15	QPSK	36	20	18.90	19.00	18.91	18.86	18.86	19.5	2		
15	QPSK	36	56	19.06	19.10	19.08	18.78	18.78				
15	QPSK	75	0	19.07	19.05	19.07	18.96	18.96				
15	16QAM	1	0	19.78	19.82	19.77	19.60	19.60	20.5	1		
15	16QAM	1	74	19.77	19.80	19.80	19.72	19.72				
15	16QAM	1	100	19.86	19.85	19.78	19.72	19.72				
15	16QAM	36	0	17.98	18.04	17.90	17.86	17.86	19.5	2		
15	16QAM	36	36	17.93	17.86	17.92	17.80	17.80				
15	16QAM	36	39	17.89	17.84	17.87	17.73	17.73				
15	16QAM	75	0	18.10	18.08	18.07	17.94	17.94	19.5	2		
15	64QAM	1	74	18.05	18.06	18.09	18.00	18.00				
15	64QAM	1	37	17.98	18.06	18.06	17.95	17.95				
15	64QAM	1	74	18.07	18.03	18.05	17.95	17.95	18.5	3		
15	64QAM	36	0	18.86	18.90	18.87	18.84	18.84				
15	64QAM	36	20	18.92	18.93	18.89	18.81	18.81				
15	64QAM	75	0	18.89	18.90	18.89	18.81	18.81	20.5	1		
15	256QAM	1	0	19.52	19.24	19.25	19.01	19.01				
15	256QAM	1	37	19.53	19.40	19.56	19.44	19.44				
15	256QAM	1	74	19.53	19.54	19.65	19.46	19.46	20.5	1		
15	256QAM	36	0	19.52	19.58	19.56	19.46	19.46				
15	256QAM	36	20	19.54	19.52	19.51	19.45	19.45				
15	256QAM	36	39	19.57	19.64	19.59	19.37	19.37	20.5	1		
15	256QAM	75	0	19.61	19.57	19.61	19.55	19.55				
Channel				56930	56918	561600	56930	56930			Time-up limit (dBm)	MPE (dB)
Frequency (MHz)				56938	56910	561600	56938	56938				
10	QPSK	1	25	20.42	20.48	20.43	20.28	20.28	21.5	0		
10	QPSK	1	0	20.39	20.48	20.38	20.23	20.23				
10	QPSK	1	25	20.37	20.37	20.36	20.20	20.20				
10	QPSK	25	12	19.02	19.12	19.06	18.96	18.96	20.5	1		
10	QPSK	25	12	19.01	19.04	18.95	18.81	18.81				
10	QPSK	25	12	19.08	19.13	19.03	18.84	18.84				
10	QPSK	50	0	19.06	19.13	19.02	19.01	19.01	20.5	1		
10	16QAM	1	0	19.86	19.91	19.77	19.68	19.68				
10	16QAM	1	25	19.73	19.86	19.87	19.65	19.65				
10	16QAM	1	49	19.82	19.82	19.76	19.71	19.71	18.5	3		
10	16QAM	25	0	17.95	18.01	17.87	17.83	17.83				
10	16QAM	25	12	17.88	17.96	17.86	17.80	17.80				
10	16QAM	25	12	17.89	17.80	17.80	17.74	17.74	19.5	2		
10	16QAM	25	12	18.04	18.03	18.07	17.97	17.97				
10	64QAM	1	0	18.80	18.90	18.88	18.71	18.71				
10	64QAM	1	25	18.87	18.88	18.78	18.69	18.69	18.5	2		
10	64QAM	1	49	18.95	18.92	18.84	18.78	18.78				
10	64QAM	25	0	18.83	18.93	18.92	18.84	18.84				
10	64QAM	25	12	18.90	18.91	18.88	18.77	18.77	18.5	3		
10	64QAM	25	12	18.95	18.87	18.91	18.83	18.83				
10	64QAM	50	0	19.01	17.05	17.08	16.95	16.95				
10	256QAM	1	0	19.67	19.61	19.61	19.46	19.46	20.5	1		
10	256QAM	1	25	19.48	19.47	19.48	19.40	19.40				
10	256QAM	1	49	19.61	19.60	19.61	19.42	19.42				
10	256QAM	1	25	19.44	19.46	19.48	19.40	19.40	20.5	1		
10	256QAM	25	12	19.51	19.60	19.64	19.47	19.47				
10	256QAM	25	12	19.55	19.54	19.58	19.32	19.32				
10	256QAM	50	0	19.65	19.60	19.60	19.55	19.55	20.5	1		
Channel				56956	56910	561710	56956	56956			Time-up limit (dBm)	MPE (dB)
Frequency (MHz)				56964	56910	561710	56956	56956				
5	QPSK	1	0	20.42	20.53	20.48	20.28	20.28	21.5	0		
5	QPSK	1	12	20.35	20.51	20.40	20.28	20.28				
5	QPSK	1	24	20.38	20.48	20.38	20.24	20.24				
5	QPSK	12	0	19.08	19.14	19.10	18.96	18.96	20.5	1		
5	QPSK	12	7	19.03	19.08	18.99	18.90	18.90				
5	QPSK	12	12	19.04	19.11	19.00	18.91	18.91				
5	QPSK	25	0	19.07	19.08	19.04	18.88	18.88	20.5	1		
5	16QAM	1	0	18.84	19.00	19.00	18.80	18.80				
5	16QAM	1	12	18.74	19.08	19.08	18.77	18.77				
5	16QAM	1	24	19.05	19.06	19.07	18.99	18.99	19.5	2		
5	16QAM	12	9	17.90	18.01	17.97	17.80	17.80				
5	16QAM	12	9	17.93	17.93	17.90	17.83	17.83				
5	16QAM	12	13	17.94	17.87	17.89	17.81	17.81	19.5	2		
5	16QAM	12	9	18.07	18.11	18.12	18.08	18.08				
5	64QAM	1	0	18.86	18.97	18.85	18.77	18.77				
5	64QAM	1	12	18.82	18.91	18.85	18.70	18.70	19.5	2		
5	64QAM	1	24	18.91	18.80	18.84	18.78	18.78				
5	64QAM	12	0	18.90	17.03	16.95	16.82	16.82				
5	64QAM	12	7	18.85	18.99	18.98	18.80	18.80	18.5	3		
5	64QAM	12	13	18.95	18.96	18.97	18.84	18.84				
5	64QAM	25	0	19.07	17.00	17.07	16.96	16.96				
5	256QAM	1	0	19.67	19.67	19.67	19.46	19.46	20.5	1		
5	256QAM	1	12	19.54	19.62	19.54	19.44	19.44				
5	256QAM	1	24	19.61	19.60	19.62	19.46	19.46				
5	256QAM	1	12	19.47	19.47	19.47	19.40	19.40	20.5	1		
5	256QAM	12	7	19.50	19.58	19.61	19.53	19.53				
5	256QAM	12	9	19.50	19.51	19.60	19.42	19.42				
5	256QAM	12	13	19.63	19.78	19.78	19.59	19.59	20.5	1		
Channel				56978	56910	561710	56978	56978			Time-up limit (dBm)	MPE (dB)
Frequency (MHz)				56986	56910	561710	56978	56978				

Band 41 Ant4															
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power Low Hgh Ch / Freq	Power High Hgh Ch / Freq	Turn-up limit (dBm)	MPR (dB)				
Channel															
Frequency (MHz)				39792	40188	40620	41066	41490	41914						
20	QPSK	1	0	18.01	18.15	18.24	18.33	18.44	18.54	18.9	0				
20	QPSK	1	49	17.95	18.02	18.10	18.04	17.97							
20	QPSK	50	0	18.01	18.11	18.13	17.98	17.95							
20	QPSK	50	24	17.92	18.05	18.02	17.95	17.88							
20	QPSK	100	0	17.92	17.99	18.02	17.90	17.89		18.9	0				
20	QPSK	100	0	17.79	17.86	18.03	17.79	17.80							
20	16QAM	1	0	17.90	18.03	18.13	18.06	18.01							
20	16QAM	1	49	17.85	17.92	17.99	17.93	17.89							
20	16QAM	1	99	17.87	17.92	18.05	17.93	17.88		18	0.9				
20	16QAM	50	0	18.05	18.09	17.81	18.01	18.01							
20	16QAM	50	24	18.08	18.77	18.89	18.75	18.82							
20	16QAM	50	50	18.60	18.70	18.82	18.72	18.74							
20	16QAM	100	0	18.04	17.97	17.87	17.96	18.02		18	0.9				
20	16QAM	100	0	18.53	18.95	17.13	17.10	18.55							
20	16QAM	1	49	18.75	18.80	18.89	18.80	18.73							
20	16QAM	1	99	18.85	18.94	17.81	18.87	18.92							
20	16QAM	50	0	18.85	18.91	18.99	18.93	18.94		17	1.9				
20	16QAM	50	24	18.88	18.78	18.85	18.77	18.77							
20	16QAM	50	50	18.75	18.84	18.97	18.84	18.92							
20	16QAM	100	0	18.89	18.96	18.95	18.93	18.94							
20	256QAM	1	0	18.89	18.96	18.95	18.93	18.94		15	3.9				
20	256QAM	1	49	13.70	13.79	13.92	13.80	13.82							
20	256QAM	1	99	13.86	13.91	13.97	13.88	13.83							
20	256QAM	50	0	13.98	13.85	13.89	13.75	13.75							
20	256QAM	50	24	13.08	13.85	13.89	13.75	13.75		15	3.9				
20	256QAM	50	50	13.74	13.88	13.84	13.87	13.88							
20	256QAM	100	0	13.88	13.88	14.01	14.01	14.01							
Channel															
Frequency (MHz)				39792	40173	40620	41066	41615	41914			Turn-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	17.95	18.09	18.18	18.02	18.05	18.04	19	0				
15	QPSK	1	37	17.89	17.96	18.04	17.86	17.81							
15	QPSK	1	74	17.86	18.04	18.08	17.92	18.02							
15	QPSK	36	20	17.79	17.87	17.96	17.90	17.82							
15	QPSK	36	20	17.87	17.96	17.85	17.84	17.84		18.9	0				
15	QPSK	75	0	17.72	17.90	17.97	17.84	17.84							
15	16QAM	1	0	17.85	17.96	18.07	18.01	17.95							
15	16QAM	1	37	17.81	17.94	17.93	17.86	17.83							
15	16QAM	1	74	17.81	17.85	17.99	17.89	17.93		18	0.9				
15	16QAM	36	0	18.72	18.83	18.94	18.85	18.85							
15	16QAM	36	39	18.82	18.71	18.83	18.72	18.75							
15	16QAM	36	39	18.59	18.64	18.76	18.66	18.68							
15	16QAM	75	0	18.79	18.85	17.81	18.93	18.89		18	0.9				
15	16QAM	1	0	18.87	18.93	17.88	17.94	18.92							
15	16QAM	1	37	18.79	18.74	18.83	18.74	18.67							
15	16QAM	1	74	18.79	18.85	18.95	18.81	18.85							
15	16QAM	36	0	18.78	18.85	18.92	18.85	18.88		17	1.9				
15	16QAM	36	39	18.82	18.70	18.84	18.75	18.78							
15	16QAM	75	0	18.87	18.96	18.99	18.91	18.92							
15	256QAM	1	0	18.87	18.96	18.99	18.91	18.92							
15	256QAM	1	37	18.79	18.84	18.96	18.84	18.84		15	3.9				
15	256QAM	1	74	18.90	18.98	17.92	17.93	18.90							
15	256QAM	36	0	18.93	17.10	17.14	18.98	17.11							
15	256QAM	36	39	18.85	18.98	17.92	18.82	18.89							
15	256QAM	75	0	18.79	18.92	18.84	18.96	18.96		15	3.9				
15	256QAM	75	0	13.87	13.82	13.89	13.82	13.81							
15	256QAM	100	0	13.88	13.88	14.01	14.01	14.01							
Channel															
Frequency (MHz)				39792	40160	40620	41066	41540	41914	Turn-up limit (dBm)	MPR (dB)				
18	QPSK	1	0	17.96	18.10	18.19	18.02	18.05	18.04	18.9	0				
18	QPSK	1	25	17.88	17.96	18.05	17.98	17.91							
18	QPSK	1	49	17.85	18.04	18.08	17.92	18.02							
18	QPSK	25	0	17.87	17.95	18.09	17.91	17.95							
18	QPSK	25	12	17.79	17.86	17.95	17.89	17.83		18.9	0				
18	QPSK	25	25	17.86	17.95	17.98	17.84	17.84							
18	QPSK	50	0	17.72	17.85	17.88	17.83	17.89							
18	16QAM	1	0	17.83	17.87	18.07	18.00	17.88							
18	16QAM	1	25	17.72	17.85	17.93	17.88	17.83		18.9	0				
18	16QAM	1	49	17.81	17.87	18.05	17.89	17.83							
18	16QAM	25	0	18.72	18.83	18.95	18.86	18.85							
18	16QAM	25	19	18.81	18.72	18.83	18.71	18.72							
18	16QAM	25	19	18.60	18.63	18.75	18.66	18.62		18	0.9				
18	16QAM	50	0	18.77	18.86	17.81	18.95	18.89							
18	16QAM	1	25	18.70	18.74	18.84	18.75	18.67							
18	16QAM	1	49	18.75	18.88	18.95	18.80	18.85							
18	16QAM	25	0	18.85	18.93	18.93	18.85	18.85		17	1.9				
18	16QAM	25	12	18.80	18.79	18.91	18.72	18.70							
18	16QAM	25	25	18.70	18.79	18.92	18.76	18.87							
18	16QAM	50	0	18.93	18.92	18.99	18.86	18.87							
18	256QAM	1	0	13.89	13.72	13.86	13.75	13.76		15	3.9				
18	256QAM	1	49	13.75	13.84	13.90	13.83	13.75							
18	256QAM	25	0	13.73	13.83	13.85	13.82	13.85							
18	256QAM	25	0	13.82	13.89	13.82	13.86	13.89							
18	256QAM	25	25	13.57	13.81	13.85	13.82	13.81		15	3.9				
18	256QAM	50	0	13.80	13.92	14.04	13.92	13.98							
Channel															
Frequency (MHz)				39679.5	40148	40620	41066	41605	41965	Turn-up limit (dBm)	MPR (dB)				
5	QPSK	1	0	17.94	18.05	18.19	18.02	18.08		18.9	0				
5	QPSK	1	12	17.89	17.95	18.03	17.98	17.91							

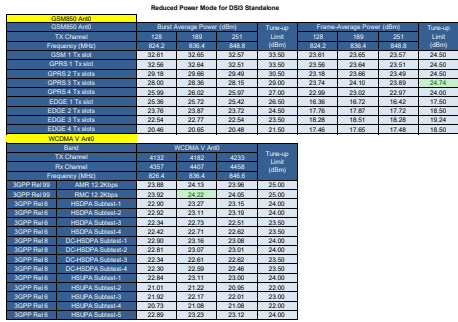


Band 42 FCC Part27Q Ant8											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)			
Channel				42190	42590	42990					
Frequency (MHz)				3415	3500	3545					
20	QPSK	1	0	19.24	19.51	19.41	20	0			
20	QPSK	1	40	19.46	19.49	19.43					
20	QPSK	1	80	19.42	19.55	19.52					
20	QPSK	50	0	17.53	17.61	17.51					
20	QPSK	50	24	17.40	17.53	17.41	19	1			
20	QPSK	50	50	17.48	17.43	17.43					
20	QPSK	100	0	17.42	17.50	17.47					
20	HQAM	1	0	18.41	18.46	18.32					
20	HQAM	1	40	18.39	18.41	18.40	19	1			
20	HQAM	1	80	18.41	18.32	18.40					
20	HQAM	50	24	18.41	18.31	18.36					
20	HQAM	50	50	18.07	18.40	18.39					
20	HQAM	100	0	18.38	18.52	18.37	18	2			
20	8QAM	1	0	17.41	17.52	17.37					
20	8QAM	1	40	17.39	17.48	17.43					
20	8QAM	1	80	17.37	17.48	17.50					
20	8QAM	50	0	15.40	15.52	15.40	17	3			
20	8QAM	50	24	15.50	15.38	15.43					
20	8QAM	50	50	15.44	15.40	15.42					
20	8QAM	100	0	15.40	15.51	15.37					
20	25QAM	1	0	18.11	18.13	18.00	19	1			
20	25QAM	1	40	18.09	18.07	18.10					
20	25QAM	1	80	18.03	18.03	18.02					
20	25QAM	50	0	17.28	17.40	17.17					
20	25QAM	50	24	18.13	18.07	18.14	19	1			
20	25QAM	50	50	18.17	18.09	18.09					
20	25QAM	100	0	18.12	18.23	18.15					
Channel				42196	42596	43016					
Frequency (MHz)				3417.3	3500	3542.5					
15	QPSK	1	0	19.18	19.31	19.31	20			0	
15	QPSK	1	47	19.36	19.39	19.40					
15	QPSK	1	74	19.37	19.47	19.49					
15	QPSK	36	0	17.49	17.60	17.47					
15	QPSK	36	20	17.53	17.48	17.36	19	1			
15	QPSK	36	47	17.48	17.48	17.48					
15	QPSK	75	0	17.27	17.38	17.42					
15	HQAM	1	0	18.31	18.40	18.29					
15	HQAM	1	47	18.31	18.28	18.27	19	1			
15	HQAM	1	74	18.27	18.29	18.30					
15	HQAM	36	0	16.28	16.45	16.33					
15	HQAM	36	20	16.31	16.33	16.27					
15	HQAM	36	47	16.33	16.42	16.35	18	2			
15	HQAM	75	0	16.33	16.44	16.29					
15	HQAM	1	0	17.28	17.40	17.28					
15	HQAM	1	27	17.38	17.44	17.34					
15	HQAM	1	74	17.34	17.33	17.38	18	2			
15	HQAM	36	0	15.38	15.43	15.45					
15	8QAM	36	20	15.39	15.29	15.29					
15	8QAM	36	47	15.38	15.44	15.35					
15	8QAM	75	0	15.29	15.44	15.25	17	3			
15	25QAM	1	0	18.07	18.01	17.88					
15	25QAM	1	47	18.03	17.85	17.85					
15	25QAM	1	74	17.92	18.00	17.87					
15	25QAM	36	0	17.07	18.17	18.07	19	1			
15	25QAM	36	20	18.04	18.02	18.10					
15	25QAM	36	47	18.04	18.00	18.04					
15	25QAM	75	0	18.02	18.10	18.00					
Channel				43115	43515	43915					
Frequency (MHz)				3415.5	3500	3542.5					
10	QPSK	1	0	19.29	19.40	19.32	20	0			
10	QPSK	1	25	19.42	19.44	19.37					
10	QPSK	1	49	19.29	19.40	19.43					
10	QPSK	36	0	17.48	17.58	17.40					
10	QPSK	25	12	17.31	17.42	17.32	19	1			
10	QPSK	25	25	17.29	17.48	17.34					
10	QPSK	50	0	17.52	17.38	17.38					
10	HQAM	1	0	18.30	18.39	18.21					
10	HQAM	1	25	18.29	18.26	18.28	19	1			
10	HQAM	1	49	18.29	18.38	18.32					
10	HQAM	25	0	16.33	16.44	16.24					
10	HQAM	25	12	16.38	16.31	16.36					
10	HQAM	25	25	16.30	16.35	16.44	18	2			
10	HQAM	50	0	16.41	16.39	16.22					
10	HQAM	1	0	17.23	17.28	17.26					
10	8QAM	1	25	17.28	17.34	17.38					
10	8QAM	1	49	17.26	17.39	17.27	18	2			
10	8QAM	25	0	15.30	15.40	15.40					
10	8QAM	25	12	15.43	15.33	15.37					
10	8QAM	25	25	15.36	15.26	15.28					
10	8QAM	50	0	15.34	15.45	15.25	17	3			
10	25QAM	1	0	18.08	18.02	17.94					
10	25QAM	1	25	18.00	17.96	18.08					
10	25QAM	1	49	17.95	17.98	17.88					
10	25QAM	25	0	17.06	18.12	17.67	19	1			
10	25QAM	25	12	18.03	17.99	18.00					
10	25QAM	25	25	18.04	18.02	17.94					
10	25QAM	50	0	18.08	18.00	18.05					
Channel				43115.5	43515	43915.5					
Frequency (MHz)				3415.5	3500	3542.5					
5	QPSK	1	0	19.18	19.54	19.36	20	0			
5	QPSK	1	12	19.40	19.42	19.37					
5	QPSK	1	24	19.36	19.50	19.45					
5	QPSK	12	0	17.48	17.58	17.48					
5	QPSK	12	7	17.54	17.48	17.36	19	1			
5	QPSK	12	13	17.31	17.42	17.37					
5	QPSK	26	0	17.38	17.44	17.41					
5	HQAM	1	0	18.35	18.39	18.27					
5	HQAM	1	12	18.33	18.38	18.35	19	1			
5	HQAM	1	24	18.26	18.25	18.26					
5	HQAM	12	0	16.35	16.40	16.29					
5	HQAM	12	7	16.41	16.34	16.33					
5	HQAM	12	13	16.34	16.40	16.41	18	2			
5	HQAM	25	0	16.41	16.40	16.32					
5	HQAM	1	0	17.35	17.46	17.32					
5	HQAM	1	12	17.53	17.41	17.38					
5	8QAM	1	24	17.30	17.38	17.37	18	2			
5	8QAM	12	0	15.33	15.46	15.43					
5	8QAM	12	7	15.44	15.37	15.37					
5	8QAM	12	13	15.38	15.34	15.35					
5	8QAM	26	0	15.35	15.45	15.30	17	3			
5	25QAM	1	0	18.06	18.00	17.95					
5	25QAM	1	12	18.02	18.00	18.04					
5	25QAM	1	24	17.96	17.98	17.88					
5	25QAM	12	0	18.01	18.14	18.05	19	1			
5	25QAM	12	7	18.07	18.00	18.09					
5	25QAM	12	13	18.12	18.00	18.03					
5	25QAM	26	0	18.05	18.17	18.09					

Band 42 FCC Part96 Ant8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel				43190	43540	43690			
Frequency (MHz)				34190	34715	34960			
20	QPSK	1	0	19.12	19.55	19.28	20	0	
20	QPSK	1	49	19.37	19.38	19.31			
20	QPSK	1	80	19.31	19.47	19.45			
20	QPSK	50	0	17.38	17.53	17.35			
20	QPSK	50	24	17.33	17.42	17.32	19	1	
20	QPSK	50	50	17.28	17.44	17.32			
20	QPSK	100	0	17.30	17.50	17.38	18	2	
20	16QAM	1	0	18.33	18.35	18.35			
20	16QAM	50	49	18.24	18.33	18.30			
20	16QAM	1	99	18.27	18.17	18.27			
20	16QAM	50	0	18.34	18.45	18.31	18	2	
20	16QAM	50	24	18.27	18.34	18.35			
20	16QAM	50	50	18.26	18.36	18.34			
20	16QAM	1	0	18.34	18.42	18.26			
20	16QAM	50	24	18.27	18.34	18.35	17	3	
20	16QAM	50	50	18.26	18.36	18.34			
20	16QAM	1	49	17.27	17.42	17.33			
20	16QAM	50	0	18.34	18.44	18.34			
20	16QAM	50	0	15.25	15.43	15.38	17	3	
20	16QAM	50	24	15.39	15.27	15.30			
20	16QAM	50	50	15.38	15.43	15.38			
20	16QAM	1	0	15.33	15.44	15.28			
20	25QAM	1	0	18.01	17.99	17.95	19	1	
20	25QAM	1	49	17.96	17.95	17.98			
20	25QAM	1	99	17.97	17.95	17.87			
20	25QAM	1	0	17.94	18.12	17.94			
20	25QAM	50	24	17.95	17.94	18.07	19	1	
20	25QAM	50	50	18.08	17.95	17.95			
20	25QAM	100	0	17.94	18.08	17.95			
Channel				43195	43545	43695			
Frequency (MHz)				34195	34720	34965			
15	QPSK	1	37	19.25	19.27	19.25	20	0	
15	QPSK	1	74	19.31	19.49	19.47			
15	QPSK	1	111	17.45	17.41	17.43			
15	QPSK	30	0	17.25	17.34	17.27			
15	QPSK	30	37	17.26	17.34	17.27	19	1	
15	QPSK	30	74	17.27	17.37	17.34			
15	16QAM	1	0	18.23	18.34	18.18			
15	16QAM	30	37	18.24	18.23	18.24			
15	16QAM	1	74	18.13	18.23	18.24	18	2	
15	16QAM	30	0	18.21	18.36	18.21			
15	16QAM	30	37	18.23	18.23	18.23			
15	16QAM	30	74	18.25	18.30	18.22			
15	16QAM	30	0	18.24	18.36	18.22	18	2	
15	16QAM	30	37	17.13	17.38	17.27			
15	16QAM	1	37	17.23	17.35	17.23			
15	16QAM	30	74	17.24	17.23	17.23			
15	16QAM	30	0	15.30	15.29	15.33	17	3	
15	16QAM	30	25	15.33	15.21	15.21			
15	16QAM	30	50	15.33	15.21	15.21			
15	16QAM	75	0	15.23	15.33	15.28			
15	25QAM	1	0	17.95	17.93	17.95	19	1	
15	25QAM	1	37	17.95	17.93	17.88			
15	25QAM	1	74	17.93	17.91	17.83			
15	25QAM	1	111	17.91	17.90	17.88			
15	25QAM	30	0	17.80	17.80	17.95	19	1	
15	25QAM	30	37	17.80	17.89	17.81			
15	25QAM	30	74	17.82	18.04	17.82			
Channel				43190	43540	43690			
Frequency (MHz)				34190	34715	34960			
10	QPSK	1	25	19.10	19.40	19.25	20	0	
10	QPSK	1	50	19.30	19.30	19.22			
10	QPSK	1	75	19.23	19.49	19.23			
10	QPSK	25	12	17.29	17.49	17.29			
10	QPSK	25	12	17.21	17.28	17.18	19	1	
10	QPSK	25	37	17.18	17.37	17.18			
10	QPSK	50	0	17.22	17.22	17.28			
10	16QAM	1	0	18.23	18.25	18.06			
10	16QAM	1	25	18.21	18.19	18.19	19	1	
10	16QAM	1	49	18.16	18.14	18.19			
10	16QAM	25	0	18.27	18.34	18.16			
10	16QAM	25	12	18.22	18.20	18.20			
10	16QAM	25	25	18.23	18.21	18.30	18	2	
10	16QAM	25	37	18.28	18.28	18.28			
10	16QAM	1	0	17.25	17.32	17.17			
10	16QAM	1	25	17.14	17.23	17.25			
10	16QAM	25	12	17.14	17.23	17.25	17	3	
10	16QAM	25	12	15.31	15.22	15.24			
10	16QAM	25	12	15.28	15.15	15.25			
10	16QAM	50	0	15.20	15.34	15.10			
10	16QAM	1	0	17.94	17.97	17.95	17	3	
10	25QAM	1	25	17.85	17.89	17.95			
10	25QAM	1	49	17.87	17.83	17.74			
10	25QAM	1	75	17.89	17.89	17.88			
10	25QAM	25	12	17.84	17.82	17.96	17	3	
10	25QAM	25	25	17.85	17.82	17.88			
10	25QAM	25	37	17.89	17.89	17.88			
Channel				43115	43540	43695			
Frequency (MHz)				34115	34715	34965			
5	QPSK	1	12	19.08	19.47	19.25	20	0	
5	QPSK	1	12	19.34	19.29	19.23			
5	QPSK	24	24	18.33	18.46	18.33			
5	QPSK	12	0	17.38	17.50	17.33			
5	QPSK	12	7	17.27	17.38	17.23	19	1	
5	QPSK	12	12	17.27	17.38	17.23			
5	QPSK	25	0	17.24	17.37	17.32			
5	QPSK	12	12	18.28	18.33	18.12			
5	16QAM	1	12	18.27	18.31	18.15	18	2	
5	16QAM	1	24	18.28	18.12	18.22			
5	16QAM	1	0	18.27	18.36	18.28			
5	16QAM	12	7	18.30	18.29	18.35			
5	16QAM	12	13	18.23	18.33	18.18	18	2	
5	16QAM	1	0	17.22	17.39	17.28			
5	16QAM	1	12	17.23	17.41	17.38			
5	16QAM	12	13	15.32	15.15	15.28			
5	16QAM	1	0	15.30	15.22	15.21	17	3	
5	16QAM	25	0	15.28	15.33	15.23			
5	25QAM	1	12	17.82	17.87	17.92			
5	25QAM	1	24	17.85	17.82	17.86			
5	25QAM	1	0	17.82	17.87	17.89	17	3	
5	25QAM	12	7	18.00	17.98	17.99			
5	25QAM	12	13	18.00	17.97	17.99			
5	25QAM	12	13	17.95	18.00	17.95			



Band 43 for FCC use Ant8														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	18.64	18.65	18.69	20	0						
20	QPSK	1	49	18.48	18.58	18.54								
20	QPSK	1	98	18.44	18.52	18.42								
20	QPSK	50	0	17.26	17.32	17.22								
20	QPSK	50	24	17.14	17.24	17.18	19	1						
20	QPSK	50	50	16.98	17.08	17.02								
20	QPSK	100	0	17.11	17.23	17.21								
20	16QAM	1	0	18.18	18.30	18.23								
20	16QAM	1	49	18.03	18.12	18.22	19	1						
20	16QAM	1	99	18.19	18.18	18.18								
20	16QAM	50	0	16.23	16.35	16.26								
20	16QAM	50	50	16.31	16.20	16.25								
20	16QAM	100	0	16.20	16.26	16.16	18	2						
20	16QAM	100	0	17.21	17.25	17.20								
20	16QAM	1	49	17.06	17.31	17.25								
20	64QAM	1	49	17.06	17.31	17.25								
20	64QAM	1	99	17.07	17.30	17.30	18	2						
20	64QAM	50	0	15.30	15.34	15.31								
20	64QAM	50	24	15.29	15.20	15.29								
20	64QAM	50	50	15.27	15.20	15.25								
20	64QAM	100	0	15.16	15.26	15.13	17	3						
20	64QAM	100	0	15.16	15.26	15.13								
20	64QAM	1	0	17.13	17.27	17.15								
20	256QAM	1	99	17.22	17.21	17.14								
20	256QAM	50	0	17.07	17.32	17.17	19	1						
20	256QAM	50	24	17.04	17.21	17.20								
20	256QAM	50	50	17.01	17.23	17.25								
20	256QAM	100	0	17.04	17.27	17.18								
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.13	18.40	18.13	20	0						
15	QPSK	1	47	18.42	18.50	18.47								
15	QPSK	1	74	18.38	18.46	18.36								
15	QPSK	36	0	17.20	17.26	17.18								
15	QPSK	36	20	17.08	17.17	17.13	19	1						
15	QPSK	36	36	17.08	17.17	17.13								
15	QPSK	75	0	17.04	17.17	17.16								
15	16QAM	1	0	18.12	18.24	18.17								
15	16QAM	1	47	18.13	18.13	18.15	19	1						
15	16QAM	1	74	18.13	18.13	18.11								
15	16QAM	36	0	16.18	16.30	16.19								
15	16QAM	36	20	16.25	16.34	16.20								
15	16QAM	36	36	16.28	16.28	16.20	18	2						
15	16QAM	75	0	16.14	16.20	16.12								
15	16QAM	1	0	17.16	17.20	17.15								
15	64QAM	1	27	17.19	17.25	17.18								
15	64QAM	1	74	17.19	17.23	17.18	18	2						
15	64QAM	36	0	15.24	15.35	15.25								
15	64QAM	36	20	15.23	15.14	15.23								
15	64QAM	36	36	15.10	15.15	15.05								
15	64QAM	75	0	15.07	15.18	15.06	19	1						
15	256QAM	1	0	17.07	17.22	17.09								
15	256QAM	1	47	17.08	17.15	17.17								
15	256QAM	1	74	17.16	17.14	17.08								
15	256QAM	36	0	17.21	17.27	17.21	19	1						
15	256QAM	36	20	17.19	17.15	17.25								
15	256QAM	36	36	17.16	17.17	17.20								
15	256QAM	75	0	17.02	17.16	17.13								
Channel														
Frequency (MHz)														
10	QPSK	1	0	18.07	18.40	18.07	20	0						
10	QPSK	1	25	18.43	18.49	18.40								
10	QPSK	1	49	18.39	18.40	18.36								
10	QPSK	25	0	17.09	17.20	17.16								
10	QPSK	25	12	17.06	17.18	17.11	19	1						
10	QPSK	25	25	17.11	17.20	17.12								
10	QPSK	50	0	17.06	17.16	17.16								
10	16QAM	1	0	18.12	18.23	18.17								
10	16QAM	1	25	18.17	18.16	18.10	19	1						
10	16QAM	1	49	18.13	18.12	18.12								
10	16QAM	25	0	16.16	16.29	16.21								
10	16QAM	25	12	16.26	16.25	16.19								
10	16QAM	25	25	16.20	16.25	16.10	18	2						
10	16QAM	50	0	16.14	16.19	16.11								
10	16QAM	1	0	17.16	17.20	17.14								
10	64QAM	1	25	17.21	17.24	17.19								
10	64QAM	1	49	17.18	17.25	17.24	18	2						
10	64QAM	25	0	15.23	15.28	15.25								
10	64QAM	25	12	15.22	15.14	15.22								
10	64QAM	25	25	15.21	15.14	15.18								
10	64QAM	50	0	15.11	15.20	15.08	17	3						
10	256QAM	1	0	17.07	17.21	17.09								
10	256QAM	1	25	17.06	17.11	17.17								
10	256QAM	1	49	17.15	17.14	17.09								
10	256QAM	25	0	17.02	17.26	17.21	19	1						
10	256QAM	25	12	17.09	17.14	17.21								
10	256QAM	25	25	17.15	17.17	17.26								
10	256QAM	50	0	17.08	17.19	17.13								
Channel														
Frequency (MHz)														
5	QPSK	1	0	18.68	18.60	18.54	20	0						
5	QPSK	1	12	18.42	18.50	18.47								
5	QPSK	1	24	18.37	18.45	18.36								
5	QPSK	12	0	17.40	17.26	17.18								
5	QPSK	12	7	17.08	17.18	17.11	19	1						
5	QPSK	12	13	17.10	17.20	17.13								
5	QPSK	26	0	17.08	17.16	17.16								
5	16QAM	1	0	18.12	18.23	18.17								
5	16QAM	1	12	18.18	18.18	18.17	19	1						
5	16QAM	1	24	18.13	18.12	18.11								
5	16QAM	12	0	16.17	16.29	16.21								
5	16QAM	12	7	16.25	16.14	16.19								
5	16QAM	12	13	16.27	16.25	16.19	18	2						
5	16QAM	26	0	16.13	16.20	16.13								
5	64QAM	1	0	17.15	17.26	17.13								
5	64QAM	1	12	17.21	17.25	17.20								
5	64QAM	1	24	17.17	17.24	17.23	18	2						
5	64QAM	12	0	15.20	15.26	15.24								
5	64QAM	12	7	15.23	15.14	15.23								
5	64QAM	12	13	15.20	15.10	15.18								
5	64QAM	26	0	15.11	15.10	15.06	17	3						
5	256QAM	1	0	17.07	17.22	17.09								
5	256QAM	1	12	17.07	17.18	17.17								
5	256QAM	1	24	17.15	17.16	17.09	19	1						
5	256QAM	12	0	17.02	17.26	17.21								
5	256QAM	12	7	17.08	17.15	17.24								
5	256QAM	12	13	17.16	17.16	17.18								
Channel														
Frequency (MHz)														



CDMA2000 1X										
Channel A1		Sidel Average Power (dBm)				Tx Power				
TX Channel	RB Channel	198.2	198.4	198.6	Limit	198	199	201	Limit	
Frequency (MHz)		894.2	895.4	896.6	(dBm)	894.2	895.6	896.6	(dBm)	
CDMA 1 Tx-Mid		32.74	32.78	32.83	33.00	23.74	23.78	23.83	24.00	
OPRS 1 Tx-Mid		32.67	32.71	32.80	33.00	23.67	23.71	23.80	24.00	
OPRS 2 Tx-Mid		25.55	25.49	25.41	30.50	23.55	23.49	23.41	24.00	
OPRS 3 Tx-Mid		28.10	28.25	28.15	29.00	23.84	23.97	23.89	24.14	
OPRS 4 Tx-Mid		26.34	26.54	26.05	27.50	23.34	23.54	23.05	24.00	
EDGE 1 Tx-Mid		25.75	25.91	25.84	27.00	18.75	18.91	18.84	18.00	
EDGE 2 Tx-Mid		24.07	24.23	24.05	25.50	18.07	18.23	17.95	18.00	
EDGE 3 Tx-Mid		22.84	22.97	22.74	24.00	18.58	18.71	18.48	18.74	
EDGE 4 Tx-Mid		20.84	20.89	20.81	22.00	17.84	17.89	17.81	18.00	
CDMA2000 1X-EV-DO										
Channel A1		Sidel Average Power (dBm)				Tx Power				
TX Channel	RB Channel	198.2	198.4	198.6	Limit	198.2	198.4	198.6	Limit	
Frequency (MHz)		894.2	895.4	896.6	(dBm)	894.2	895.4	896.6	(dBm)	
CDMA 1 Tx-Mid		25.01	25.20	25.37	27.60	17.61	17.65	17.67	18.00	
OPRS 1 Tx-Mid		26.58	26.60	26.65	27.60	17.58	17.68	17.65	18.00	
OPRS 2 Tx-Mid		23.04	23.06	23.05	24.00	17.04	17.06	17.05	18.00	
OPRS 3 Tx-Mid		21.81	21.82	21.79	22.00	17.35	17.36	17.33	18.00	
OPRS 4 Tx-Mid		21.05	21.06	21.11	21.60	18.05	18.06	18.11	18.60	
EDGE 1 Tx-Mid		19.16	19.20	19.23	20.00	14.16	14.18	14.21	16.00	
EDGE 2 Tx-Mid		22.84	22.90	22.81	23.50	18.84	18.90	18.81	17.99	
EDGE 3 Tx-Mid		20.84	20.89	20.84	22.00	18.84	18.89	18.79	17.74	
EDGE 4 Tx-Mid		18.46	18.70	18.58	20.00	15.46	15.70	15.58	17.00	
WCDMA 3.1										
Channel		Sidel Average Power (dBm)				Tx Power				
TX Channel	RB Channel	198.2	198.4	198.6	Limit	198.2	198.4	198.6	Limit	
Frequency (MHz)		894.2	895.4	896.6	(dBm)	894.2	895.4	896.6	(dBm)	
CDMA 1 Tx-Mid		17.02	17.11	17.07	18.30	16.00	16.10	16.20	17.00	
OPRS 1 Tx-Mid		17.14	17.25	17.17	18.30	16.17	16.31	16.38	17.00	
OPRS 2 Tx-Mid		16.05	16.30	16.25	17.30	15.28	15.63	15.55	16.50	
OPRS 3 Tx-Mid		16.12	16.25	16.28	17.30	15.30	15.51	15.57	16.50	
OPRS 4 Tx-Mid		15.81	15.70	15.65	16.80	14.75	15.11	14.92	16.00	
OPRS 5 Tx-Mid		15.66	15.71	15.76	16.80	14.66	15.01	14.91	16.00	
OPRS 6 Tx-Mid		16.14	16.21	16.28	17.30	15.35	15.49	15.48	16.00	
OPRS 7 Tx-Mid		16.01	16.15	16.18	17.30	15.25	15.39	15.39	16.00	
OPRS 8 Tx-Mid		15.64	15.71	15.68	16.80	14.76	14.89	14.91	16.00	
OPRS 9 Tx-Mid		15.58	15.62	15.61	16.80	14.82	14.89	14.80	16.00	
OPRS 10 Tx-Mid		15.96	16.01	16.03	17.30	15.02	15.10	15.09	16.00	
OPRS 11 Tx-Mid		15.07	15.23	15.14	16.30	13.05	14.27	14.93	15.79	
OPRS 12 Tx-Mid		15.00	15.05	15.10	16.30	13.15	13.24	13.26	16.00	
OPRS 13 Tx-Mid		14.00	15.17	15.20	16.30	14.25	14.55	14.32	14.00	
OPRS 14 Tx-Mid		17.02	17.21	17.17	17.30	16.11	16.50	16.62	16.00	

COM1000 Avg2									
Tx Channel		Start Average Power (dBm)			Time-up		Frame Average Power (dBm)		
Tx Channel		512	861	810	Limit	512	861	810	Limit
Frame Average Power (dBm)		860.2	860.0	859.8	(dBm)	860.2	860.0	859.8	(dBm)
CRM 1 Tx slot		20.31	20.34	20.40	30.00	20.31	20.34	20.40	21.00
OPRS 1 Tx slot		20.34	20.47	20.43	30.00	20.34	20.47	20.43	21.00
OPRS 3 Tx slots		21.00	20.94	20.72	27.00	20.98	20.94	19.72	21.00
OPRS 4 Tx slots		24.42	24.35	24.48	25.00	20.16	20.09	20.22	21.24
EDGE 1 Tx slot		21.64	21.02	21.06	23.00	18.64	18.02	18.86	20.00
EDGE 2 Tx slot		23.82	23.87	23.88	25.00	14.82	14.87	14.88	16.00
EDGE 3 Tx slots		22.10	22.18	22.13	23.00	16.10	16.16	16.12	17.00
EDGE 4 Tx slots		20.00	20.08	20.05	22.00	16.04	16.29	16.60	17.24
EDGE 5 Tx slots		18.75	18.83	18.81	20.00	12.75	12.83	12.81	17.00
VTCMA II Avg2									
Band		VTCMA II Avg2			Time-up		VTCMA IV Avg2		
Tx Channel		8662	8660	8638	Limit	8662	8660	8638	Limit
Tx Channel		8662	8660	8638	(dBm)	8662	8660	8638	(dBm)
Frame Average Power (dBm)		8662.4	8660.0	8638.0	(dBm)	8662.4	8660.0	8638.0	(dBm)
SOPP Rel 99		AMR 12 slots	21.07	21.00	21.76	23.00	21.03	21.73	21.74
SOPP Rel 99		RNC 12 slots	21.94	21.09	21.89	23.00	21.89	21.07	21.82
SOPP Rel 8		HSDPA Subslot 1	20.75	20.14	20.72	22.00	20.74	20.09	20.58
SOPP Rel 8		HSDPA Subslot 2	20.85	20.73	20.71	22.00	20.85	20.67	20.64
SOPP Rel 8		HSDPA Subslot 3	20.52	20.28	20.16	21.25	20.19	20.31	19.99
SOPP Rel 8		HSDPA Subslot 4	20.19	20.02	20.14	21.75	20.35	20.34	20.17
SOPP Rel 8		DC-HSDPA Subslot 1	20.02	20.15	20.12	22.00	20.09	20.07	20.06
SOPP Rel 8		DC-HSDPA Subslot 2	20.05	20.05	20.02	20.00	20.15	20.15	21.00
SOPP Rel 8		DC-HSDPA Subslot 3	20.40	20.30	20.09	21.75	20.30	20.31	20.02
SOPP Rel 8		DC-HSDPA Subslot 4	20.33	20.20	20.07	21.75	20.14	20.09	19.83
SOPP Rel 8		HSPA Subslot 1	21.84	21.71	21.83	22.00	21.75	21.71	21.48
SOPP Rel 7		HSPA Subslot 2	18.58	18.07	18.62	20.00	18.25	18.22	18.45
SOPP Rel 8		HSPA Subslot 3	20.69	20.70	20.40	21.00	20.73	20.68	20.37
SOPP Rel 8		HSPA Subslot 4	19.76	19.72	19.73	20.00	19.52	19.75	19.67
SOPP Rel 8		HSPA Subslot 5	21.09	21.75	21.76	22.00	21.66	21.56	21.80

Band 5 Ant0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Turn-up time (dB)	MPE (dB)				
Channel												
20465 20525 20625												
10	QPSK	1	0	22.60	22.73	22.68			24	0		
10	QPSK	1	25	22.51	22.58	22.54						
10	QPSK	1	49	22.80	22.84	22.83			23	1		
10	QPSK	25	0	21.69	21.72	21.62						
10	QPSK	25	12	21.44	21.53	21.44			23	1		
10	QPSK	25	25	21.63	21.66	21.61						
10	QPSK	50	0	21.61	21.65	21.59			23	1		
10	QPSK	1	0	21.69	21.67	21.61						
10	HQAM	1	25	21.41	21.52	21.38			22	2		
10	HQAM	1	49	21.54	21.60	21.45						
10	HQAM	25	0	20.47	20.55	20.43			21	3		
10	HQAM	25	12	20.35	20.49	20.35						
10	HQAM	25	25	20.50	20.60	20.50			19	5		
10	HQAM	50	0	20.54	20.68	20.59						
10	HQAM	1	0	20.51	20.59	20.54			22	2		
10	HQAM	1	25	20.45	20.51	20.47						
10	HQAM	1	49	20.55	20.65	20.55			21	3		
10	HQAM	25	0	19.47	19.53	19.40						
10	HQAM	25	12	19.52	19.63	19.53			19	5		
10	HQAM	25	25	19.44	19.49	19.35						
10	HQAM	50	0	19.50	19.62	19.54			19	5		
10	HQAM	1	25	17.46	17.54	17.42						
10	HQAM	1	25	17.44	17.48	17.40			19	5		
10	HQAM	1	49	17.49	17.62	17.52						
10	HQAM	25	0	17.40	17.50	17.44			19	5		
10	HQAM	25	12	17.50	17.63	17.55						
10	HQAM	25	25	17.50	17.68	17.44			19	5		
10	HQAM	50	0	17.51	17.67	17.54						
Channel												
20465 20525 20625												
5	QPSK	1	0	22.54	22.68	22.54			24	0		
5	QPSK	1	12	22.39	22.48	22.44						
5	QPSK	1	24	22.45	22.54	22.47			23	1		
5	QPSK	12	0	21.65	21.68	21.55						
5	QPSK	12	7	21.35	21.44	21.38			23	1		
5	QPSK	12	13	21.45	21.52	21.51						
5	QPSK	25	0	21.59	21.54	21.46			23	1		
5	QPSK	1	0	21.53	21.58	21.52						
5	HQAM	1	12	21.31	21.56	21.32			22	2		
5	HQAM	1	24	21.47	21.48	21.31						
5	HQAM	12	0	20.43	20.51	20.37			21	3		
5	HQAM	12	7	20.25	20.36	20.21						
5	HQAM	12	13	20.41	20.48	20.49			22	2		
5	HQAM	25	0	20.46	20.58	20.46						
5	HQAM	1	0	20.38	20.54	20.48			22	2		
5	HQAM	1	12	20.31	20.52	20.42						
5	HQAM	1	24	20.43	20.55	20.47			21	3		
5	HQAM	12	0	19.36	19.40	19.24						
5	HQAM	12	7	19.41	19.53	19.50			21	3		
5	HQAM	12	13	19.39	19.44	19.24						
5	HQAM	25	0	19.36	19.52	19.39			19	5		
5	HQAM	1	0	17.43	17.46	17.40						
5	HQAM	1	12	17.40	17.40	17.31			19	5		
5	HQAM	1	24	17.45	17.55	17.45						
5	HQAM	12	0	17.35	17.46	17.35			19	5		
5	HQAM	12	7	17.44	17.60	17.45						
5	HQAM	12	13	17.45	17.50	17.35			19	5		
5	HQAM	25	0	17.54	17.60	17.48						
Channel												
20465 20525 20643												
3	QPSK	1	0	22.54	22.68	22.63			24	0		
3	QPSK	1	8	22.42	22.53	22.41						
3	QPSK	1	14	22.36	22.60	22.51			23	1		
3	QPSK	8	0	21.66	21.66	21.58						
3	QPSK	8	4	21.39	21.49	21.34			23	1		
3	QPSK	8	7	21.40	21.55	21.57						
3	HQAM	1	0	21.64	21.67	21.58			23	1		
3	HQAM	1	0	21.49	21.55	21.52						
3	HQAM	1	8	21.34	21.41	21.31			22	2		
3	HQAM	1	14	21.42	21.57	21.35						
3	HQAM	8	0	20.41	20.49	20.35			21	3		
3	HQAM	8	4	20.21	20.40	20.21						
3	HQAM	8	7	20.35	20.51	20.47			22	2		
3	HQAM	15	0	20.46	20.61	20.50						
3	HQAM	1	0	20.47	20.44	20.45			22	2		
3	HQAM	1	8	20.33	20.40	20.33						
3	HQAM	1	14	20.43	20.62	20.43			21	3		
3	HQAM	8	0	19.35	19.40	19.23						
3	HQAM	8	4	19.36	19.52	19.23			19	5		
3	HQAM	8	7	19.36	19.39	19.23						
3	HQAM	15	0	19.37	19.54	19.46			19	5		
3	HQAM	1	0	17.36	17.41	17.34						
3	HQAM	1	8	17.37	17.38	17.22			19	5		
3	HQAM	1	14	17.46	17.57	17.37						
3	HQAM	8	0	17.32	17.41	17.25			19	5		
3	HQAM	8	4	17.39	17.59	17.47						
3	HQAM	8	7	17.40	17.52	17.40			19	5		
3	HQAM	15	0	17.47	17.60	17.46						
Channel												
20465 20526 20643												
1.4	QPSK	1	0	22.54	22.70	22.52			24	0		
1.4	QPSK	1	3	22.40	22.50	22.49						
1.4	QPSK	1	5	22.35	22.59	22.41			23	1		
1.4	QPSK	3	0	22.64	22.67	22.48						
1.4	QPSK	3	1	22.35	22.43	22.39			23	1		
1.4	QPSK	3	3	22.41	22.52	22.48						
1.4	QPSK	8	0	21.48	21.56	21.48			22	2		
1.4	QPSK	1	0	21.48	21.52	21.58						
1.4	HQAM	1	3	21.32	21.45	21.29			23	1		
1.4	HQAM	1	5	21.48	21.52	21.45						
1.4	HQAM	3	0	21.37	21.47	21.37			22	2		
1.4	HQAM	3	1	21.32	21.42	21.20						
1.4	HQAM	3	3	21.35	21.48	21.43			21	3		
1.4	HQAM	8	0	20.43	20.56	20.49						
1.4	HQAM	1	0	20.37	20.55	20.45			22	2		
1.4	HQAM	1	3	20.40	20.40	20.39						
1.4	HQAM	1	5	20.41	20.61	20.39			22	2		
1.4	HQAM	3	0	20.32	20.49	20.32						
1.4	HQAM	3	1	20.48	20.48	20.50			21	3		
1.4	HQAM	3	3	20.39	20.40	20.28						
1.4	HQAM	8	0	19.40	19.59	19.44			19	5		
1.4	HQAM	1	0	17.40	17.47	17.36						
1.4	HQAM	1	3	17.40	17.40	17.36			19	5		
1.4	HQAM	1	5	17.43	17.48	17.36						
1.4	HQAM	3	0	17.26	17.36	17.41			19	5		
1.4	HQAM	3	1	17.41	17.52	17.45						
1.4	HQAM	3	3	17.44	17.42	17.25			19	5		
1.4	HQAM	8	0	17.54	17.57	17.45						

Band 12 Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Turn-up time (dB)	MPE (dB)		
Channel										
704 707.5 711										
10	QPSK	1	0	22.78	22.98	22.85			24	0
10	QPSK	1	25	22.71	22.81	22.87				
10	QPSK	1	49	22.79	22.91	22.87			23	1
10	QPSK	25	0	21.74	21.69					
10	QPSK	25	12	21.74	21.80	21.68				
10	QPSK	1	25	21.75	21.85	21.73			23	1
10	QPSK	1	0	21.89	22.02	21.90				
10	QPSK	1	25	21.89	22.02	21.90				
10	QPSK	1	49	21.91	22.03	21.91				
10	QPSK	1	25	21.91	22.03	21.91				
10	QPSK	1	49	21.92	22.02	21.92				
10	QPSK	1	25	21.92	22.02	21.92				
10	QPSK	1	49	21.93	22.03	21.93				
10	QPSK	1	25	21.93	22.03	21.93				
10	QPSK	1	49	21.94	22.04	21.94				
10	QPSK	1	25	21.94	22.04	21.94				
10	QPSK	1	49	21.95	22.05	21.95				
10	QPSK	1	25	21.95	22.05	21.95				
10	QPSK	1	49	21.96	22.06	21.96				
10	QPSK	1	25	21.96	22.06	21.96				
10	QPSK	1	49	21.97	22.07	21.97				
10	QPSK	1	25	21.97	22.07	21.97				
10	QPSK	1	49	21.98	22.08	21.98				
10	QPSK	1	25	21.98	22.08	21.98				
10	QPSK	1	49	21.99	22.09	21.99				
10	QPSK	1	25	21.99	22.09	21.99				
10	QPSK	1	49	22.00	22.10	22.00				
10	QPSK	1	25	22.00	22.10	22.00				
10	QPSK	1	49	22.01	22.11	22.01				
10	QPSK	1	25	22.01	22.11	22.01				
10	QPSK	1	49	22.02	22.12	22.02				
10	QPSK	1	25	22.02	22.12	22.02				
10	QPSK	1	49	22.03	22.13	22.03				
10	QPSK	1	25	22.03	22.13	22.03				
10	QPSK	1	49	22.04	22.14	22.04				
10	QPSK	1	25	22.04	22.14	22.04				
10	QPSK	1	49	22.05	22.15	22.05				
10	QPSK	1	25	22.05	22.15	22.05				
10	QPSK	1	49	22.06	22.16	22.06				
10	QPSK	1	25	22.06	22.16	22.06				
10	QPSK	1	49	22.07	22.17	22.07				
10	QPSK	1	25	22.07	22.17	22.07				
10	QPSK	1	49	22.08	22.18	22.08				
10	QPSK	1	25	22.08	22.18	22.08				
10	QPSK	1	49	22.09	22.19	22.09				
10	QPSK	1	25	22.09	22.19	22.09				
10	QPSK	1	49	22.10	22.20	22.10				
10	QPSK	1	25	22.10	22.20	22.10				
10	QPSK	1	49	22.11	22.21	22.11				
10	QPSK	1	25	22.11	22.21	22.11				
10	QPSK	1	49	22.12	22.22	22.12				
10	QPSK	1	25	22.12	22.22	22.12				
10	QPSK	1	49	22.13	22.23	22.13				
10	QPSK	1	25	22.13	22.23	22.13				
10	QPSK	1	49	22.14	22.24	22.14				
10	QPSK	1	25	22.14	22.24	22.14				
10	QPSK	1	49	22.15	22.25	22.15				
10	QPSK	1	25	22.15	22.25	22.15				
10	QPSK	1	49	22.16	22.26	22.16				
10	QPSK	1	25	22.16	22.26	22.16				
10	QPSK	1	49	22.17	22.27	22.17				
10	QPSK	1	25	22.17	22.27	22.17				
10	QPSK	1	49	22.18	22.28	22.18				
10	QPSK	1	25	22.18	22.28	22.18				
10	QPSK	1	49	22.19	22.29	22.19				
10	QPSK	1	25	22.19	22.29	22.19				
10	QPSK	1	49	22.20	22.30	22.20				
10	QPSK	1	25	22.20	22.30	22.20				
10	QPSK	1	49	22.21	22.31	22.21				
10	QPSK	1	25	22.21	22.31	22.21				
10	QPSK	1	49	22.22	22.32	22.22				
10	QPSK	1	25	22.22	22.32	22.22				
10	QPSK	1	49	22.23	22.33	22.23				
10	QPSK	1	25	22.23	22.33	22.23				
10	QPSK	1	49	22.24	22.34	22.24				
10	QPSK	1	25	22.24	22.34	22.24				
10	QPSK	1	49	22.25	22.35	22.25				
10	QPSK	1	25	22.25	22.35	22.25				
10	QPSK	1	49	22.26	22.36	22.26				
10	QPSK	1	25	22.26	22.36	22.26				
10	QPSK	1	49	22.27	22.37	22.27				
10	QPSK	1	25	22.27	22.37	22.27				
10	QPSK	1	49	22.28	22.38	22.28				
10	QPSK	1	25	22.28	22.38	22.28				
10	QPSK	1	49	22.29	22.39	22.29				
10	QPSK	1	25	22.29	22.39	22.29				
10	QPSK	1	49	22.30	22.40	22.30				
10	QPSK	1	25	22.30	22.40	22.30				
10	QPSK	1	49	22.31	22.41	22.31				
10	QPSK	1	25	22.31	22.41	22.31				
10	QPSK	1	49	22.32	22.42	22.32				
10	QPSK	1	25	22.32	22.42	22.32				
10	QPSK	1	49	22.33	22.43	22.33				
10	QPSK	1	25	22.33	22.43	22.33				
10	QPSK	1	49	22.34	22.44	22.34				
10	QPSK	1	25	22.34	22.44	22.34				
10	QPSK	1	49	22.35	22.45	22.35				
10	QPSK	1	25	22.35	22.45	22.35				
10	QPSK	1	49	22.36	22.46	22.36				
10	QPSK	1	25	22.36	22.46	22.36				
10	QPSK	1	49	22.37	22.47	22.37				
10	QPSK	1	25	22.37	22.47	22.37				
10	QPSK	1	49	22.38	22.48	22.38				
10	QPSK	1	25	22.38	22.48	22.38				
10	QPSK	1	49	22.39	22.49	22.39				
10	QPSK	1	25	22.39	22.49	22.39				
10	QPSK	1	49	22.40	22.50	22.40				
10	QPSK	1	25	22.40	22.50	22.40				
10	QPSK	1	49	22.41	22.51	22.41				
10	QPSK	1	25	22.41	22.51	22.41				
10	QPSK	1	49	22.42	22.52	22.42				
10	QPSK	1	25	22.42	22.52	22.42				
10	QPSK	1	49	22.43	22.53	22.43				
10	QPSK	1	25	22.43	22.53	22.43				
10	QPSK	1	49	22.44	22.54	22.44				
10	QPSK	1	25	22.44	22.54	22.44				
10	QPSK	1	49	22.45	22.55	22.45				
10	QPSK	1	25	22.45	22.55	22.45				
10	QPSK	1	49	22.46	22.56	22.46				
10	QPSK	1	25	22.46	22.56	22.46				
10	QPSK	1	49	22.47	22.57	22.47				
10	QPSK	1	25	22.47	22.57	22.47				
10	QPSK	1	49	22.48	22.58	22.48				
10	QPSK	1	25	22.48	22.58	22.48				
10	QPSK	1	49	22.49	22.59	22.49				
10	QPSK	1	25	22.49	22.59	22.49				
10	QPSK	1	49	22.50	22.60	22.50				
10	QPSK	1	25	22.50	22.60	22.50				
10	QPSK	1	49	22.51	22.61	22.51				
10	QPSK	1	25	22.51	22.61	22.51				
10	QPSK	1	49	22.52	22.62	22.52				
10	QPSK	1	25	22.52	22.62	22.52				
10	QPSK	1	49	22.53	22.63	22.53				
10	QPSK	1	25	22.53	22.63	22.53				
10	QPSK	1	49	22.54	22.64	22.54				
10	QPSK	1	25	22.54	22.64	22.54				
10	QPSK	1	49	22.55	22.65	22.55				
10	QPSK	1	25	22.55	22.65	22.55				
10	QPSK	1	49	22.56	22.66	22.56				
10	QPSK	1	25	22.56	22.66	22.56				
10	QPSK	1	49	22.57	22.67	22.57				
10	QPSK	1	25	22.57	22.67	22.57				
10	QPSK	1	49	22.58	22.68	22.58				
10	QPSK	1	25	22.58	22.68	22.58				
10	QPSK	1	49	22.59	22.69	22.59				
10	QPSK	1	25	22.59	22.69	22.59				
10	QPSK	1	49	22.60	22.70	22.60				
10	QPSK	1	25	22.60	22.70	22.60				
10	QPSK	1	49	22.61	22.71	22.61				
10	QPSK	1	25	22.61	22.71	22.61				
10	QPSK	1	49	22.62	22.72	22.62				
10	QPSK	1	25	22.62	22.72	22.62				
10	QPSK	1	49	22.63	22.73	22.63				
10	QPSK	1	25	22.63	22.73	22.63				
10	QPSK	1	49	22.64	22.74	22.64				
10	QPSK	1	25	22.64	22.74	22.64				
10	QPSK	1	49	22.65	22.75	22.65</				



Band 17 Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)				7090	70950	71000				
10	QPSK	1	0	22.85	22.85	22.82	24	0		
10	QPSK	1	25	22.77	22.86	22.82				
10	QPSK	1	49	22.75	22.81	22.68				
10	QPSK	25	0	21.82	21.94	21.84				
10	QPSK	25	12	21.78	21.90	21.83	23	1		
10	QPSK	25	25	21.71	21.85	21.79				
10	QPSK	50	0	21.80	21.86	21.77				
10	16QAM	1	0	22.05	22.02	22.04				
10	16QAM	1	25	21.83	21.98	21.90	23	1		
10	16QAM	1	49	21.83	21.91	21.87				
10	16QAM	25	0	20.81	20.95	20.92				
10	16QAM	25	12	20.79	20.92	20.79				
10	16QAM	25	25	20.79	20.87	20.80	22	2		
10	16QAM	50	0	20.81	20.91	20.82				
10	16QAM	1	0	21.00	21.04	21.00				
10	16QAM	1	25	20.89	20.92	20.86				
10	16QAM	1	49	20.82	20.87	20.79	21	3		
10	16QAM	25	0	19.84	19.78	19.85				
10	16QAM	25	12	19.79	19.86	19.73				
10	16QAM	25	25	19.87	19.71	19.87				
10	16QAM	50	0	19.75	19.89	19.85	19	5		
10	256QAM	1	0	17.89	18.01	17.86				
10	256QAM	1	25	17.89	17.94	17.88				
10	256QAM	1	49	17.71	17.86	17.78				
10	256QAM	25	0	17.81	17.99	17.86	19	5		
10	256QAM	25	12	17.74	17.84	17.75				
10	256QAM	25	25	17.65	17.79	17.75				
10	256QAM	50	0	17.79	17.83	17.78				
Channel										
Frequency (MHz)				708.5	710	710.5	Turn-up Int. (dB)	MPE (dB)		
5	QPSK	1	0	22.71	22.85	22.83	24	0		
5	QPSK	1	12	22.70	22.71	22.71				
5	QPSK	1	24	22.68	22.75	22.61				
5	QPSK	12	0	21.76	21.90	21.80				
5	QPSK	12	7	21.67	21.79	21.71	23	1		
5	QPSK	12	13	21.65	21.75	21.69				
5	QPSK	25	0	21.67	21.77	21.64				
5	16QAM	1	0	21.98	21.97	21.95				
5	16QAM	1	12	21.69	21.93	21.84	23	1		
5	16QAM	1	24	21.78	21.89	21.75				
5	16QAM	12	0	20.87	20.91	20.77				
5	16QAM	12	7	20.84	20.70	20.64				
5	16QAM	12	13	20.71	20.75	20.70	22	2		
5	16QAM	25	0	20.75	20.78	20.78				
5	16QAM	1	0	20.90	20.95	20.90				
5	16QAM	1	12	20.80	20.92	20.93				
5	16QAM	1	24	20.68	20.81	20.59	21	3		
5	16QAM	12	0	19.53	19.66	19.61				
5	16QAM	12	7	19.58	19.59	19.64				
5	16QAM	12	13	19.60	19.62	19.53				
5	16QAM	25	0	19.61	19.78	19.77	19	5		
5	256QAM	1	0	17.84	17.92	17.79				
5	256QAM	1	12	17.75	17.85	17.75				
5	256QAM	1	24	17.58	17.76	17.63				
5	256QAM	12	0	17.76	17.77	17.74	19	5		
5	256QAM	12	7	17.60	17.75	17.63				
5	256QAM	12	13	17.57	17.65	17.71				
5	256QAM	25	0	17.72	17.68	17.75				

Band 26 for FCC Ant0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turnup Int. (dB)	MPE (dB)				
Channel												
Frequency (MHz)				821.5	821.5	821.5						
15	QPSK	1	0	22.58	22.77	22.67	24	0				
15	QPSK	1	37	22.47	22.87	22.52						
15	QPSK	1	74	22.59	22.83	22.54						
15	QPSK	36	0	21.51	21.63	21.60						
15	QPSK	36	20	21.50	21.58	21.55	23	1				
15	QPSK	36	39	21.40	21.54	21.46						
15	QPSK	75	0	21.59	21.67	21.57						
15	16QAM	1	0	21.72	21.80	21.70						
15	16QAM	1	37	21.56	21.71	21.63	23	1				
15	16QAM	1	74	21.65	21.68	21.53						
15	16QAM	36	0	20.49	20.62	20.48						
15	16QAM	36	20	20.58	20.73	20.52						
15	16QAM	36	39	20.64	20.67	20.61	22	2				
15	16QAM	75	0	20.59	20.68	20.52						
15	16QAM	1	0	20.68	20.72	20.60						
15	16QAM	1	37	20.55	20.64	20.54						
15	16QAM	1	74	20.65	20.76	20.72	21	3				
15	16QAM	36	0	19.64	19.63	19.59						
15	16QAM	36	20	19.62	19.74	19.61						
15	16QAM	36	39	19.64	19.65	19.54						
15	256QAM	1	0	17.48	17.71	17.66	19	5				
15	256QAM	1	37	17.56	17.61	17.52						
15	256QAM	1	74	17.59	17.67	17.57						
15	256QAM	36	0	17.62	17.63	17.57						
15	256QAM	36	20	17.65	17.72	17.65	19	5				
15	256QAM	36	39	17.62	17.65	17.61						
15	256QAM	75	0	17.61	17.65	17.57						
Channel												
Frequency (MHz)				819	821.5	824				Turnup Int. (dB)	MPE (dB)	
10	QPSK	1	0	22.49	22.72	22.85	24	0				
10	QPSK	1	25	22.59	22.44	22.45						
10	QPSK	1	49	22.56	22.51	22.40						
10	QPSK	25	0	21.37	21.54	21.37						
10	QPSK	25	12	21.40	21.48	21.41	23	1				
10	QPSK	25	25	21.34	21.48	21.41						
10	QPSK	50	0	21.54	21.52	21.50						
10	16QAM	1	0	21.61	21.68	21.65						
10	16QAM	1	25	21.52	21.67	21.54	23	1				
10	16QAM	1	49	21.44	21.62	21.46						
10	16QAM	25	0	20.42	20.58	20.38						
10	16QAM	25	12	20.64	20.59	20.49						
10	16QAM	25	25	20.64	20.56	20.48	22	2				
10	16QAM	50	0	20.44	20.53	20.48						
10	16QAM	1	0	20.55	20.60	20.51						
10	16QAM	1	25	20.21	20.55	20.46						
10	16QAM	1	49	20.57	20.05	20.07	21	3				
10	16QAM	25	0	19.59	19.56	19.52						
10	16QAM	25	12	19.58	19.60	19.56						
10	16QAM	25	25	19.53	19.54	19.42						
10	16QAM	50	0	19.41	19.66	19.40	19	5				
10	256QAM	1	0	17.52	17.62	17.55						
10	256QAM	1	25	17.52	17.52	17.42						
10	256QAM	1	49	17.45	17.63	17.44						
10	256QAM	25	0	17.42	17.55	17.45	19	5				
10	256QAM	25	12	17.51	17.57	17.52						
10	256QAM	25	25	17.43	17.52	17.46						
10	256QAM	50	0	17.53	17.60	17.45						
Channel												
Frequency (MHz)				26715	26865	27015	Turnup Int. (dB)	MPE (dB)				
5	QPSK	1	0	22.47	22.54	22.57	24	0				
5	QPSK	1	12	22.36	22.47	22.48						
5	QPSK	1	24	22.55	22.50	22.47						
5	QPSK	12	0	21.37	21.51	21.48						
5	QPSK	12	7	21.40	21.47	21.43	23	1				
5	QPSK	12	13	21.28	21.45	21.31						
5	QPSK	25	0	21.45	21.61	21.44						
5	16QAM	1	0	21.63	21.68	21.65						
5	16QAM	1	12	21.52	21.67	21.54	23	1				
5	16QAM	1	24	21.47	21.55	21.40						
5	16QAM	12	0	20.37	20.53	20.41						
5	16QAM	12	7	20.59	20.50	20.43						
5	16QAM	12	13	20.59	20.59	20.51	22	2				
5	16QAM	25	0	20.46	20.53	20.42						
5	16QAM	25	12	20.63	20.52	20.46						
5	16QAM	25	25	20.63	20.52	20.46						
5	16QAM	1	0	20.44	20.44	20.44	22	2				
5	16QAM	1	12	20.44	20.45	20.44						
5	16QAM	1	24	20.57	20.68	20.55						
5	16QAM	12	0	19.47	19.67	19.54						
5	16QAM	12	7	19.51	19.83	19.53	21	3				
5	16QAM	12	13	19.56	19.59	19.41						
5	16QAM	12	25	19.52	19.57	19.44						
5	16QAM	25	0	17.46	17.67	17.54						
5	256QAM	1	0	17.46	17.67	17.54	19	5				
5	256QAM	1	12	17.45	17.48	17.47						
5	256QAM	1	24	17.52	17.52	17.42						
5	256QAM	1	49	17.45	17.63	17.44						
5	256QAM	12	0	17.40	17.53	17.43						
5	256QAM	12	7	17.54	17.69	17.51						
5	256QAM	12	13	17.59	17.57	17.47	19	5				
5	256QAM	12	25	17.46	17.62	17.48						
Channel												
Frequency (MHz)				26705	26855	27005				Turnup Int. (dB)	MPE (dB)	
3	QPSK	1	0	22.46	22.54	22.57	24	0				
3	QPSK	1	8	22.33	22.53	22.43						
3	QPSK	1	16	22.52	22.48	22.43						
3	QPSK	8	0	21.47	21.54	21.53						
3	QPSK	8	4	21.46	21.44	21.43	23	1				
3	QPSK	8	12	21.45	21.42	21.43						
3	QPSK	16	0	21.49	21.59	21.48						
3	16QAM	1	0	21.59	21.68	21.56						
3	16QAM	1	8	21.46	21.63	21.45	23	1				
3	16QAM	1	16	21.49	21.57	21.51						
3	16QAM	8	0	20.35	20.69	20.39						
3	16QAM	8	4	20.62	20.60	20.48						
3	16QAM	8	12	20.57	20.57	20.51	22	2				
3	16QAM	16	0	20.44	20.47	20.41						
3	16QAM	16	8	20.55	20.43	20.41						
3	16QAM	16	16	20.46	20.56	20.44						
3	16QAM	1	0	20.46	20.46	20.46	22	2				
3	16QAM	1	8	20.46	20.46	20.46						
3	16QAM	1	16	20.51	20.64	20.57						
3	16QAM	8	0	19.48	19.83	19.52						
3	16QAM	8	4	19.57	19.61	19.43	21	3				
3	16QAM	8	12	19.52	19.53	19.48						
3	16QAM	16	0	17.52	17.58	17.48						
3	256QAM	1	8	17.44	17.50	17.44						
3	256QAM	1	16	17.51	17.61	17.50	19	5				
3	256QAM	8	0	17.39	17.54	17.43						
3	256QAM	8	4	17.53	17.69	17.51						
3	256QAM	8	12	17.55	17.51	17.50						
3	256QAM	16	0	17.47	17.56	17.54	19	5				
Channel												
Frequency (MHz)				26697	26847	26997				Turnup Int. (dB)	MPE (dB)	
14	QPSK	1	0	22.51	22.66	22.63				24	0	
14	QPSK	1	5	22.36	22.54	22.45						
14	QPSK	1	9	22.49	22.51	22.51						
14	QPSK	1	14	22.41	22.48	22.43						
14	QPSK	3	0	22.39	22.52	22.45	23	1				
14	QPSK	3	2	22.29	22.48	22.42						
14	QPSK	3	5	22.55	22.44	22.51						
14	16QAM	1	0	21.68	21.69	21.64						
14	16QAM	1	5	21.53	21.74	21.54	23	1				
14	16QAM	1	9	21.59	21.68	21.52						
14	16QAM	3	0	20.41	20.45	20.40						
14	16QAM	3	2	20.58	20.44	20.44						
14	16QAM	1	0	20.47	20.54	20.45	22	2				
14	16QAM	1	5	20.33	20.66	20.33						
14	16QAM	1	9	20.57	20.60	20.55						
14	16QAM	3	0	20.49	20.62	20.45						
14	16QAM	3	2	20.57	20.62	20.41	21	3				
14	16QAM	3	5	20.50	20.58	20.47						
14	16QAM	1	0	17.54	17.61	17.48						
14	256QAM	1	3	17.51	17.66	17.42						
14	256QAM	1	9	17.63	17.63	17.43	19	5				
14	256QAM	3	0	17.48	17.48	17.52						
14	256QAM	3	2	17.58	17.59	17.58						
14	256QAM	3	5	17.57	17.59	17.53						

Band 2 Ant1												
RF (MHz)	Modulation	RF BW	RF Offset	Power (dBm)	Power (dBm) Ch. 1	Power (dBm) Ch. 2	Power (dBm) Ch. 3	Turn-on time (ms)	MFR (dB)			
Channel												
20	QPSK	1	0	17.21	17.28	17.18						
20	QPSK	1	49	17.17	17.28	17.13	18.4	0				
20	QPSK	1	98	17.17	17.28	17.13						
20	QPSK	50	0	17.23	17.38	17.12						
20	QPSK	50	24	17.13	17.25	17.14	18.4	0				
20	QPSK	50	49	17.15	17.25	17.09						
20	QPSK	100	0	17.05	17.16	17.03						
20	QPSK	1	0	17.10	17.14	17.02						
20	QPSK	1	49	17.02	17.15	17.00	18.4	0				
20	QPSK	1	99	17.11	17.20	17.13						
20	QPSK	50	25	17.17	17.26	17.19						
20	QPSK	50	50	17.02	17.15	17.00	18.4	0				
20	QPSK	50	99	17.19	17.24	17.19						
20	QPSK	1	0	17.07	17.12	17.01						
20	QPSK	1	49	17.05	17.15	17.05	18.4	0				
20	QPSK	1	99	17.06	17.16	17.06						
20	QPSK	50	24	17.04	17.14	17.04	18.4	0				
20	QPSK	50	49	17.03	17.13	17.03						
20	QPSK	100	0	17.03	17.17	17.11						
20	QPSK	1	0	16.89	16.98	16.88						
20	QPSK	1	49	16.81	16.93	16.83	17	1.4				
20	QPSK	1	99	16.88	16.91	16.84						
20	QPSK	50	25	16.97	16.97	16.92						
20	QPSK	50	50	17.01	17.04	16.98	17	1.4				
20	QPSK	50	99	16.93	16.95	16.86						
20	QPSK	100	0	16.99	16.93	16.90						
Channel												
	Frequency (MHz)			1807.5	1800	1802.5						
15	QPSK	1	0	17.08	17.13	17.08						
15	QPSK	1	49	17.17	17.17	17.17	18.4	0				
15	QPSK	1	74	16.98	17.01	16.95						
15	QPSK	36	0	17.16	17.22	17.08						
15	QPSK	36	49	17.02	17.22	17.08	18.4	0				
15	QPSK	36	99	16.97	17.14	17.09						
15	QPSK	75	0	16.94	17.09	16.99						
15	QPSK	75	49	16.92	17.02	16.91	18.4	0				
15	QPSK	75	99	16.97	17.01	16.97						
15	QPSK	1	0	17.01	17.11	17.01						
15	QPSK	1	74	17.04	17.11	17.11						
15	QPSK	36	20	16.95	17.06	16.93	18.4	0				
15	QPSK	36	39	17.12	17.20	17.24						
15	QPSK	36	49	17.03	17.08	17.04	18.4	0				
15	QPSK	1	0	16.95	16.97	16.95						
15	QPSK	1	37	17.02	17.06	16.98	18.4	0				
15	QPSK	1	74	17.03	17.08	17.08						
15	QPSK	36	20	16.88	17.07	16.96						
15	QPSK	36	39	16.98	17.04	16.92	18.4	0				
15	QPSK	36	49	16.97	17.04	16.97						
15	QPSK	75	0	16.94	17.03	17.02						
15	QPSK	75	49	16.92	17.03	16.92	18.4	0				
15	QPSK	75	99	16.97	17.01	16.97						
15	QPSK	1	0	16.83	16.95	16.85	17	1.4				
15	QPSK	1	74	16.91	16.92	16.88						
15	QPSK	36	20	16.90	16.92	16.88	17	1.4				
15	QPSK	36	39	16.95	16.96	16.92						
15	QPSK	36	49	16.98	16.99	16.94	17	1.4				
15	QPSK	36	99	16.94	16.95	16.89						
15	QPSK	75	0	16.90	16.91	16.87						
15	QPSK	75	49	16.93	16.94	16.89	17	1.4				
15	QPSK	75	99	16.94	16.95	16.90						
Channel												
	Frequency (MHz)			1807.5	1800	1802.5						
3	QPSK	1	0	17.07	17.23	17.09						
3	QPSK	1	8	17.08	17.22	17.09	18.4	0				
3	QPSK	1	16	17.07	17.22	17.09						
3	QPSK	8	0	17.10	17.13	17.01						
3	QPSK	8	8	17.01	17.21	17.09	18.4	0				
3	QPSK	8	16	17.03	17.19	17.09						
3	QPSK	16	0	17.02	17.02	16.98						
3	QPSK	16	8	16.99	17.04	16.93	18.4	0				
3	QPSK	16	16	17.11	17.11	17.09						
3	QPSK	1	14	17.04	17.07	17.03						
3	QPSK	8	0	17.09	17.19	17.12	18.4	0				
3	QPSK	8	8	17.05	17.05	17.04						
3	QPSK	8	16	17.09	17.17	17.12						
3	QPSK	16	0	16.98	17.14	16.97						
3	QPSK	16	8	16.96	17.08	16.98	18.4	0				
3	QPSK	16	16	16.98	17.09	16.97						
3	QPSK	1	14	16.99	17.16	17.10						
3	QPSK	8	8	16.94	17.01	16.91	18.4	0				
3	QPSK	16	0	17.17	17.17	17.16						
3	QPSK	16	8	16.92	17.08	16.95	17	1.4				
3	QPSK	1	0	16.95	16.98	16.84						
3	QPSK	1	16	16.93	16.98	16.83	17	1.4				
3	QPSK	1	14	16.96	16.94	16.93						
3	QPSK	8	0	16.86	16.92	16.84	17	1.4				
3	QPSK	8	8	16.90	16.90	16.84						
3	QPSK	8	16	16.76	16.84	16.76	18.4	0				
3	QPSK	16	0	16.92	16.94	16.90						
Channel												
	Frequency (MHz)			1807.7	1800	1809.3						
1.4	QPSK	1	0	17.14	17.22	17.10						
1.4	QPSK	1	3	17.06	17.21	17.05	18.4	0				
1.4	QPSK	1	6	17.07	17.11	17.02						
1.4	QPSK	3	0	17.10	17.22	16.97						
1.4	QPSK	3	3	17.03	17.13	17.03	18.4	0				
1.4	QPSK	3	6	17.06	17.15	17.05						
1.4	QPSK	6	0	16.95	17.12	16.98	18.4	0				
1.4	QPSK	6	3	16.91	16.97	16.87						
1.4	QPSK	1	0	17.00	17.04	16.94						
1.4	QPSK	1	3	16.96	17.07	17.06						
1.4	QPSK	1	6	16.95	17.02	16.92	18.4	0				
1.4	QPSK	3	0	16.91	17.06	16.97						
1.4	QPSK	3	3	16.91	17.07	17.07	18.4	0				
1.4	QPSK	3	6	16.87	17.09	16.82						
1.4	QPSK	6	0	16.96	17.08	16.96						
1.4	QPSK	6	3	17.05	17.17	17.08	18.4	0				
1.4	QPSK	6	6	16.95	17.11	17.08						
1.4	QPSK	1	0	16.86	16.99	16.82						
1.4	QPSK	1	3	16.83	16.97	16.87	17	1.4				
1.4	QPSK	1	6	16.88	16.87	16.84						
1.4	QPSK	3	0	16.92	16.97	16.90						
1.4	QPSK	3	3	16.76	16.91	16.80	18.4	0				
1.4	QPSK	3	6	16.73	16.93	16.78						

Band 4 Ant1												
SW (MHz)	Channel	RF Band	RF Chn	Power (dBm)	Power (dBm)	Power (dBm)	Turn-on Time (s)	MFR (dB)				
Frequency (MHz)									Turn-on Time (s)	MFR (dB)		
20	QPSK	1	6	17.41	17.41	17.53						
20	QPSK	1	49	17.40	17.43	17.48	18.8	0				
20	QPSK	1	98	17.40	17.43	17.48						
20	QPSK	50	6	17.55	17.56	17.60						
20	QPSK	50	24	17.53	17.56	17.58	18.8	0				
20	QPSK	50	98	17.53	17.56	17.60						
20	QPSK	100	6	17.49	17.57	17.54						
20	QPSK	100	6	17.41	17.51	17.58						
20	QPSK	100	98	17.41	17.51	17.58	18.8	0				
20	HQDM	1	99	17.32	17.46	17.33						
20	HQDM	1	99	17.36	17.47	17.43						
20	HQDM	50	99	17.43	17.48	17.46	18.8	0				
20	HQDM	50	99	17.46	17.53	17.49						
20	HQDM	100	99	17.38	17.50	17.37						
20	HQDM	100	99	17.42	17.48	17.44	18.8	0				
20	HQDM	100	99	17.45	17.50	17.45						
20	HQDM	50	24	17.34	17.47	17.34	18.8	0				
20	HQDM	50	24	17.38	17.48	17.38						
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						
20	HQDM	100	6	17.89	17.28	17.32	17.5	1				
20	HQDM	100	6	17.89	17.28	17.32						

Band 5 Ant1												
WW (MHz)	Modulation	RIS Slot	RIS Offset	Power Ch. 1/Freq. 20450	Power Ch. 2/Freq. 20500	Power Ch. 3/Freq. 20600	Turnup rate (dB)	MPE (dB)				
Channel									Frequency (MHz)			
15	QPSK	1	0	22.28	22.43	22.48						
15	QPSK	1	26	22.30	22.43	22.38		24	0			
15	QPSK	15	0	22.32	22.37	22.42						
15	QPSK	25	0	21.43	21.48	21.38						
15	QPSK	25	12	21.36	21.40	21.33			23	1		
15	QPSK	25	38	21.38	21.43	21.29						
15	QPSK	50	0	21.38	21.43	21.37						
15	QPSK	50	15	21.48	21.61	21.60						
15	QPSK	50	30	21.31	21.44	21.52			23	1		
15	HQPSK	1	0	21.52	21.55	21.42						
15	HQPSK	25	0	20.34	20.38	20.29						
15	HQPSK	25	12	20.30	20.27	20.24						
15	HQPSK	25	38	20.31	20.42	20.31			22	2		
15	HQPSK	50	0	20.31	20.44	20.32						
15	HQPSK	50	15	20.43	20.46	20.33						
15	HQPSK	50	30	20.22	20.34	20.27			22	2		
15	HQPSK	50	45	20.25	20.36	20.28						
15	HQPSK	25	0	19.35	19.34	19.25						
15	HQPSK	25	12	19.37	19.45	19.30			21	3		
15	HQPSK	25	38	19.38	19.40	19.35						
15	HQPSK	50	0	19.42	19.51	19.45						
15	DSSS(1M)	1	0	17.38	17.40	17.29						
15	DSSS(1M)	1	15	17.41	17.47	17.37			19	5		
15	DSSS(1M)	1	49	17.38	17.44	17.33						
15	DSSS(1M)	25	0	17.28	17.33	17.24						
15	DSSS(1M)	25	12	17.30	17.35	17.25						
15	DSSS(1M)	25	38	17.41	17.51	17.38						
15	DSSS(1M)	50	0	17.41	17.45	17.31						
Frequency (MHz)									20450	20500	20600	
5	QPSK	1	0	22.28	22.41	22.45						
5	QPSK	1	26	22.33	22.46	22.41		24	0			
5	QPSK	1	24	22.12	22.22	22.10						
5	QPSK	12	0	21.39	21.42	21.33						
5	QPSK	12	12	21.39	21.43	21.33			23	1		
5	QPSK	25	0	21.26	21.36	21.27						
5	HQPSK	1	0	21.36	21.39	21.29						
5	HQPSK	1	12	21.17	21.39	21.28			23	1		
5	HQPSK	12	24	21.48	21.41	21.38						
5	HQPSK	12	38	20.38	20.36	20.24						
5	HQPSK	12	7	20.30	20.30	20.27			22	2		
5	HQPSK	12	19	20.18	20.39	20.21						
5	HQPSK	25	0	20.38	20.38	20.24						
5	HQPSK	1	0	20.28	20.35	20.29						
5	HQPSK	1	12	20.07	20.23	20.21			22	2		
5	HQPSK	1	24	20.34	20.34	20.21						
5	HQPSK	12	0	19.14	19.22	19.18						
5	HQPSK	12	7	19.31	19.37	19.19			21	3		
5	HQPSK	12	19	19.32	19.39	19.26						
5	HQPSK	25	0	19.33	19.44	19.41						
5	HQPSK	25	12	19.34	19.45	19.42						
5	DSSS(1M)	1	0	17.38	17.40	17.29						
5	DSSS(1M)	1	15	17.41	17.47	17.37			19	5		
5	DSSS(1M)	1	49	17.38	17.44	17.33						
5	DSSS(1M)	25	0	17.28	17.33	17.24						
5	DSSS(1M)	25	12	17.30	17.35	17.25						
5	DSSS(1M)	25	38	17.41	17.51	17.38						
5	DSSS(1M)	50	0	17.41	17.45	17.31						
Channel									20450	20500	20600	
Frequency (MHz)									20450	20500	20600	
14	QPSK	1	0	22.28	22.43	22.33						
14	QPSK	1	3	22.33	22.39	22.28		24	0			
14	QPSK	1	6	22.19	22.31	22.08						
14	QPSK	8	0	21.32	21.39	21.30						
14	QPSK	8	1	22.24	22.28	22.22			23	1		
14	QPSK	9	0	22.27	22.29	22.20						
14	QPSK	9	3	22.31	22.33	22.30						
14	HQPSK	1	0	21.35	21.38	21.28						
14	HQPSK	1	3	21.23	21.34	21.23						
14	HQPSK	1	6	21.48	21.51	21.35			23	1		
14	HQPSK	8	0	21.31	21.28	21.24						
14	HQPSK	8	1	21.27	21.40	21.38						
14	HQPSK	9	0	21.26	21.38	21.28						
14	HQPSK	9	0	20.24	20.36	20.38			22	2		
14	HQPSK	9	3	20.33	20.37	20.21						
14	HQPSK	9	6	20.12	20.20	20.20						
14	HQPSK	9	6	20.29	20.29	20.24			22	2		
14	HQPSK	9	9	20.10	20.29	20.17						
14	HQPSK	9	1	20.30	20.41	20.27						
14	HQPSK	9	3	20.27	20.28	20.26			21	3		
14	HQPSK	9	6	20.27	20.40	19.30						
14	DSSS(1M)	1	0	17.30	17.35	17.19						
14	DSSS(1M)	1	3	17.27	17.37	17.31						
14	DSSS(1M)	1	6	17.32	17.33	17.29						
14	DSSS(1M)	9	0	17.12	17.25	17.19			19	5		
14	DSSS(1M)	9	1	17.31	17.32	17.35						
14	DSSS(1M)	9	3	17.28	17.45	17.30						
14	DSSS(1M)	9	0	17.30	17.37	17.27			19	5		

Band 7 Ant1									
HW Model	Modulation	RB Size	RB Chn#	Power Ch./Frac. dBm/0	Power Ch./Frac. dBm/10	Power Ch./Frac. dBm/20	Turn-on rate	Mbps (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.63	19.71	21.61			
20	QPSK	1	49	19.54	19.67	19.55		20.8	0
20	QPSK	1	99	19.63	19.71	19.61			
20	QPSK	50	0	19.54	19.67	19.58			
20	QPSK	50	24	19.50	19.54	19.51		20.8	0
20	QPSK	50	24	19.60	19.64	19.61			
20	QPSK	100	0	19.50	19.55	19.44			
20	16QAM	1	0	19.60	19.66	19.60			
20	16QAM	1	49	19.52	19.65	19.49		20.8	0
20	16QAM	1	99	19.59	19.64	19.60			
20	16QAM	50	0	19.41	19.44	19.40			
20	16QAM	50	24	19.36	19.42	19.40			
20	16QAM	50	50	19.30	19.45	19.37		20.5	0.3
20	16QAM	100	0	19.30	19.45	19.37			
20	64QAM	1	0	19.50	19.52	19.57			
20	64QAM	1	49	19.41	19.47	19.33		20.5	0.3
20	64QAM	1	99	19.53	19.55	19.56			
20	64QAM	50	0	19.32	19.47	19.36			
20	64QAM	50	24	19.29	19.38	19.25		19.5	1.3
20	64QAM	50	24	19.33	19.46	19.35			
20	64QAM	100	0	19.46	19.50	19.46			
20	256QAM	1	0	19.49	19.60	19.47		17.5	3.3
20	256QAM	1	49	19.33	19.57	19.39			
20	256QAM	1	99	19.44	19.54	19.46			
20	256QAM	50	0	19.45	19.54	19.50			
20	256QAM	50	24	19.36	19.47	19.45			
20	256QAM	50	50	19.40	19.47	19.43		17.5	3.3
20	256QAM	100	0	19.40	19.43	19.36			
Frequency (MHz)									
15	QPSK	1	0	19.53	19.58	19.58			
15	QPSK	1	49	19.43	19.54	19.43		20.8	0
15	QPSK	1	99	19.53	19.58	19.58			
15	QPSK	1	74	19.47	19.49	19.50			
15	QPSK	36	0	19.47	19.57	19.46		20.8	0
15	QPSK	36	36	19.48	19.57	19.44			
15	QPSK	75	0	19.43	19.52	19.36			
15	16QAM	1	0	19.53	19.57	19.57			
15	16QAM	1	37	19.40	19.56	19.53		20.8	0
15	16QAM	1	74	19.49	19.49	19.45			
15	16QAM	1	74	19.49	19.49	19.45			
15	16QAM	36	36	19.24	19.33	19.29		20.5	0.3
15	16QAM	36	36	19.25	19.37	19.32			
15	16QAM	75	0	19.33	19.35	19.19			
15	64QAM	1	0	19.42	19.47	19.19		20.5	0.3
15	64QAM	1	37	19.35	19.52	19.16			
15	64QAM	36	0	19.25	19.36	19.28			
15	64QAM	36	36	19.17	19.24	19.16		19.5	1.3
15	64QAM	36	36	19.20	19.27	19.25			
15	64QAM	75	0	19.34	19.45	19.38			
15	256QAM	1	0	19.43	19.46	19.39		17.5	3.3
15	256QAM	1	37	19.36	19.46	19.27			
15	256QAM	1	74	19					
15	256QAM	1	74	19					
15	256QAM	36	36	19.27	19.36	19.28			
15	256QAM	36	36	19.28	19.37	19.30			
15	256QAM	75	0	19.33	19.43	19.15			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.62	22.01	22.93			
5	QPSK	1	12	19.56	19.59	19.48		20.8	0
5	QPSK	1	49	19.48	19.54	19.41			
5	QPSK	1	99	19.56	19.59	19.48			
5	QPSK	12	0	19.52	19.52	19.48			
5	QPSK	12	12	19.46	19.60	19.46		20.8	0
5	QPSK	12	13	19.54	19.51	19.43			
5	QPSK	25	0	19.46	19.60	19.46			
5	QPSK	25	12	19.43	19.49	19.49		20.8	0
5	QPSK	25	25	19.51	19.55	19.46			
5	QPSK	25	25	19.53	19.53	19.46			
5	16QAM	1	0	19.55	19.61	19.44			
5	16QAM	1	25	19.49	19.63	19.52		20.8	0
5	16QAM	1	49	19.53	19.61	19.53			
5	16QAM	25	0	19.30	19.44	19.36			
5	16QAM	25	12	19.28	19.34	19.27		20.5	0.3
5	16QAM	25	25	19.18	19.37	19.28			
5	16QAM	50	0	19.39	19.46	19.49			
5	16QAM	50	25	19.29	19.44	19.23		20.5	0.3
5	16QAM	50	50	19.30	19.46	19.28			
5	64QAM	1	0	19.23	19.41	19.25			
5	64QAM	1	49	19.34	19.44	19.35		19.5	1.3
5	64QAM	1	99	19.42	19.53	19.41			
5	64QAM	25	0	19.24	19.35	19.21			
5	64QAM	25	12	19.23	19.32	19.15		17.5	3.3
5	64QAM	25	25	19.38	19.44	19.34			
5	256QAM	1	0	19.40	19.45	19.36		17.5	3.3
5	256QAM	1	12	19.34	19.41	19.30			
5	256QAM	1	49	19.38	19.44	19.36			
5	256QAM	1	99	19.40	19.45	19.36			
5	256QAM	12	0	19.34	19.41	19.38			
5	256QAM	12	12	19.33	19.36	19.24		17.5	3.3
5	256QAM	12	13	19.31	19.36	19.20			
5	256QAM	25	0	19.33	19.37	19.15			

Band 12 Ant1														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Meds Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.58	22.79	22.62	24	0						
10	QPSK	1	25	22.53	22.63	22.59								
10	QPSK	1	49	22.86	22.70	22.67	23	1						
10	QPSK	25	0	21.68	21.71	21.64								
10	QPSK	25	12	21.54	21.68	21.58	23	1						
10	QPSK	25	25	21.62	21.66	21.62								
10	QPSK	50	0	21.60	21.67	21.63	23	1						
10	HQAM	1	0	21.70	21.75	21.64								
10	HQAM	1	25	21.54	21.63	21.53	22	2						
10	HQAM	1	49	21.57	21.69	21.63								
10	HQAM	25	0	20.63	20.70	20.66	21	3						
10	HQAM	25	12	20.63	20.74	20.63								
10	HQAM	25	25	20.68	20.78	20.72	22	2						
10	HQAM	50	0	20.54	20.73	20.59								
10	HQAM	1	0	20.80	20.89	20.84	22	2						
10	HQAM	1	25	20.67	20.77	20.64								
10	HQAM	1	49	20.63	20.88	20.64	21	3						
10	HQAM	25	0	19.62	19.65	19.54								
10	HQAM	25	12	19.62	19.71	19.59	19	5						
10	HQAM	25	25	19.51	19.58	19.55								
10	HQAM	50	0	19.62	19.70	19.62	19	5						
10	HQAM	1	25	17.57	17.71	17.68								
10	25SQAM	1	25	17.51	17.65	17.58	19	5						
10	25SQAM	1	49	17.54	17.66	17.62								
10	25SQAM	25	0	17.56	17.67	17.64	19	5						
10	25SQAM	25	12	17.59	17.74	17.63								
10	25SQAM	25	25	17.68	17.62	17.58	19	5						
10	25SQAM	50	0	17.68	17.62	17.58								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.47	22.70	22.49	24	0						
5	QPSK	1	12	22.40	22.58	22.51								
5	QPSK	1	24	22.42	22.56	22.44	23	1						
5	QPSK	12	0	21.65	21.68	21.50								
5	QPSK	12	7	21.49	21.62	21.52	23	1						
5	QPSK	12	13	21.53	21.56	21.49								
5	QPSK	25	0	21.52	21.58	21.52	23	1						
5	HQAM	1	0	21.58	21.64	21.52								
5	HQAM	1	12	21.46	21.62	21.57	22	2						
5	HQAM	1	24	21.44	21.62	21.59								
5	HQAM	12	0	20.48	20.66	20.52	21	3						
5	HQAM	12	7	20.55	20.68	20.49								
5	HQAM	12	13	20.53	20.64	20.51	22	2						
5	HQAM	25	0	20.59	20.61	20.59								
5	HQAM	1	0	20.74	20.81	20.76	22	2						
5	HQAM	1	12	20.67	20.67	20.55								
5	HQAM	1	24	20.52	20.63	20.50	21	3						
5	HQAM	12	0	19.45	19.51	19.50								
5	HQAM	12	7	19.46	19.53	19.50	19	5						
5	HQAM	12	13	19.49	19.51	19.41								
5	HQAM	25	0	19.57	19.60	19.49	19	5						
5	25SQAM	1	0	17.49	17.54	17.52								
5	25SQAM	1	12	17.36	17.48	17.47	19	5						
5	25SQAM	1	24	17.45	17.58	17.56								
5	25SQAM	12	0	17.47	17.62	17.52	19	5						
5	25SQAM	12	7	17.48	17.68	17.48								
5	25SQAM	12	13	17.42	17.53	17.49	19	5						
5	25SQAM	25	0	17.54	17.57	17.46								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.51	22.67	22.55	24				0			
3	QPSK	1	8	22.39	22.51	22.46								
3	QPSK	1	14	22.44	22.63	22.52	23	1						
3	QPSK	8	0	21.60	21.59	21.49								
3	QPSK	8	4	21.43	21.59	21.49	23	1						
3	QPSK	8	7	21.66	21.62	21.50								
3	HQAM	1	0	21.54	21.56	21.53	23	1						
3	HQAM	1	0	21.62	21.67	21.54								
3	HQAM	1	8	21.44	21.60	21.38	22	2						
3	HQAM	1	14	21.63	21.65	21.55								
3	HQAM	8	0	20.59	20.62	20.60	21	3						
3	HQAM	8	4	20.55	20.65	20.58								
3	HQAM	8	7	20.57	20.68	20.62	22	2						
3	HQAM	15	0	20.51	20.67	20.58								
3	HQAM	1	0	20.76	20.80	20.77	22	2						
3	HQAM	8	0	20.55	20.70	20.54								
3	HQAM	1	14	20.54	20.64	20.55	21	3						
3	HQAM	8	4	19.41	19.58	19.47								
3	HQAM	8	7	19.45	19.52	19.46	19	5						
3	HQAM	15	0	19.54	19.60	19.50								
3	25SQAM	1	0	17.53	17.60	17.55	19	5						
3	25SQAM	1	8	17.44	17.50	17.50								
3	25SQAM	1	14	17.41	17.62	17.58	19	5						
3	25SQAM	8	0	17.51	17.56	17.52								
3	25SQAM	8	4	17.54	17.63	17.47	19	5						
3	25SQAM	8	7	17.44	17.54	17.47								
3	25SQAM	15	0	17.60	17.59	17.57	19	5						
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.52	22.57	22.53			24	0				
1.4	QPSK	1	3	22.41	22.53	22.53								
1.4	QPSK	1	5	22.48	22.55	22.50	23	1						
1.4	QPSK	3	0	22.64	22.57	22.52								
1.4	QPSK	3	1	22.44	22.59	22.43	23	1						
1.4	QPSK	3	3	22.49	22.63	22.59								
1.4	QPSK	8	0	21.57	21.64	21.55	23	1						
1.4	HQAM	1	0	21.61	21.63	21.54								
1.4	HQAM	1	3	21.45	21.54	21.39	22	2						
1.4	HQAM	1	5	21.47	21.63	21.48								
1.4	HQAM	3	0	21.48	21.58	21.58	21	3						
1.4	HQAM	3	1	21.63	21.71	21.64								
1.4	HQAM	3	3	21.56	21.73	21.67	22	2						
1.4	HQAM	8	0	20.63	20.65	20.60								
1.4	HQAM	1	0	20.74	20.80	20.74	22	2						
1.4	HQAM	1	3	20.64	20.64	20.53								
1.4	HQAM	1	5	20.49	20.60	20.55	21	3						
1.4	HQAM	3	0	20.43	20.50	20.40								
1.4	HQAM	3	1	20.52	20.60	20.49	19	5						
1.4	HQAM	3	3	20.41	20.47	20.44								

Band 25 Ant1																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Turn-up time (sec)	MPE (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	16.95	17.32	17.13	18.4	0								
20	QPSK	1	49	17.22	17.28	17.20										
20	QPSK	1	99	17.13	17.17	17.03										
20	QPSK	50	0	17.22	17.25	17.20										
20	QPSK	50	24	17.14	17.18	17.12	18.4	0								
20	16QAM	1	49	17.06	17.21	17.07										
20	16QAM	1	99	17.21	17.29	17.22										
20	16QAM	50	0	17.24	17.28	17.24										
20	16QAM	50	24	17.22	17.27	17.16	18.4	0								
20	16QAM	50	50	17.16	17.26	17.12										
20	16QAM	100	0	17.17	17.25	17.17										
20	16QAM	100	0	17.03	17.19	17.07										
20	16QAM	1	49	17.14	17.25	17.20	18.4	0								
20	16QAM	1	99	17.10	17.18	17.03										
20	16QAM	50	0	17.15	17.22	17.18										
20	16QAM	50	24	17.16	17.24	17.10										
20	16QAM	50	50	17.17	17.25	17.12	18.4	0								
20	16QAM	100	0	17.11	17.16	17.12										
20	256QAM	1	0	15.96	16.07	15.94										
20	256QAM	1	37	15.95	15.93	15.87										
20	256QAM	1	99	15.81	15.96	15.84	17	1.4								
20	256QAM	50	0	15.86	15.97	15.89										
20	256QAM	50	24	15.82	15.97	15.79										
20	256QAM	50	50	15.77	15.89	15.84										
20	256QAM	100	0	15.83	15.95	15.83	17	1.4								
20	256QAM	100	0	15.75	15.85	15.79										
20	256QAM	100	0	15.19	15.30	15.23										
20	256QAM	100	0	15.11	15.22	15.15										
Channel																
Frequency (MHz)																
16	QPSK	1	0	16.88	17.28	17.07	18.4	0								
16	QPSK	1	37	17.19	17.24	17.08										
16	QPSK	1	74	16.99	17.10	16.92										
16	QPSK	36	0	17.08	17.18	17.13										
16	QPSK	36	24	17.00	17.14	16.98	18.4	0								
16	QPSK	36	39	17.11	17.09	17.05										
16	QPSK	75	0	17.00	17.17	17.13										
16	16QAM	1	124	17.18	17.19	17.13										
16	16QAM	1	37	16.92	17.11	17.01	18.4	0								
16	16QAM	1	74	17.08	17.18	17.12										
16	16QAM	36	0	17.16	17.24	17.03										
16	16QAM	36	20	17.11	17.19	17.02										
16	16QAM	36	20	17.03	17.14	17.00	18.4	0								
16	16QAM	75	0	17.12	17.14	17.14										
16	16QAM	1	0	16.94	17.06	16.93										
16	16QAM	1	37	17.06	17.21	17.08										
16	16QAM	1	74	17.05	17.03	16.96	18.4	0								
16	16QAM	36	0	17.00	17.15	17.11										
16	16QAM	36	20	17.06	17.18	17.06										
16	16QAM	36	39	17.01	17.13	17.04										
16	16QAM	75	0	17.00	17.04	17.01	17	1.4								
16	256QAM	1	0	15.95	15.95	15.90										
16	256QAM	1	37	15.85	15.96	15.89										
16	256QAM	1	74	15.67	15.84	15.68										
16	256QAM	50	0	15.70	15.82	15.74	17	1.4								
16	256QAM	50	24	15.71	15.83	15.84										
16	256QAM	50	39	15.63	15.85	15.79										
16	256QAM	50	50	15.19	15.30	15.23										
Channel																
Frequency (MHz)																
10	QPSK	1	0	16.84	17.27	17.06	18.4	0								
10	QPSK	1	25	17.10	17.21	17.10										
10	QPSK	1	49	17.09	17.05	16.92										
10	QPSK	25	0	17.08	17.05	16.97										
10	QPSK	25	25	17.04	17.11	17.06	18.4	0								
10	QPSK	50	0	17.08	17.12	17.07										
10	16QAM	1	0	17.10	17.22	17.21										
10	16QAM	1	26	16.91	17.14	16.97										
10	16QAM	1	49	17.16	17.18	17.12	18.4	0								
10	16QAM	25	0	17.19	17.15	17.09										
10	16QAM	25	12	17.12	17.23	17.09										
10	16QAM	36	0	17.03	17.14	17.03										
10	16QAM	50	0	17.03	17.18	17.21	18.4	0								
10	16QAM	1	0	16.95	17.06	16.98										
10	16QAM	1	24	17.03	17.03	16.96										
10	16QAM	1	49	16.96	17.05	16.89										
10	16QAM	25	0	17.05	17.10	17.04	18.4	0								
10	16QAM	25	12	17.06	17.14	17.05										
10	16QAM	25	25	17.08	17.17	16.97										
10	16QAM	50	0	17.00	17.10	17.05										
10	256QAM	1	0	15.91	15.96	15.87	17	1.4								
10	256QAM	1	26	15.90	15.96	15.87										
10	256QAM	1	49	15.70	15.91	15.80										
10	256QAM	25	0	15.85	15.85	15.84										
10	256QAM	25	12	15.75	15.84	15.73	17	1.4								
10	256QAM	25	25	15.66	15.81	15.75										
10	256QAM	50	0	15.92	15.96	15.90										
10	256QAM	50	0	15.19	15.30	15.23										
Channel																
Frequency (MHz)																
5	QPSK	1	0	16.84	17.28	17.06	18.4	0								
5	QPSK	1	12	17.11	17.28	17.12										
5	QPSK	1	24	17.07	17.02	17.00										
5	QPSK	12	0	17.11	17.18	17.11										
5	QPSK	12	7	17.02	17.13	17.04	18.4	0								
5	QPSK	12	13	17.09	17.04	17.04										
5	QPSK	25	0	17.04	17.22	17.20										
5	16QAM	1	0	17.12	17.22	17.11										
5	16QAM	1	12	17.02	17.06	17.00	18.4	0								
5	16QAM	1	24	17.15	17.18	17.12										
5	16QAM	12	0	17.15	17.18	17.02										
5	16QAM	12	7	17.17	17.07	17.07	18.4	0								
5	16QAM	25	0	17.11	17.14	17.11										
5	16QAM	25	12	17.07	17.17	17.04										
5	16QAM	1	12	17.08	17.15	17.07										
5	16QAM	1	24	17.07	17.10	16.93	18.4	0								
5	16QAM	12	0	17.13	17.18	17.08										
5	16QAM	12	7	17.01	17.20	17.02										
5	16QAM	12	13	17.09	17.19	17.04										
5	256QAM	1	0	15.91	15.91	15.82	17	1.4								
5	256QAM	1	12	15.90	15.96	15.87										
5	256QAM	1	24	15.71	15.84	15.71										
5	256QAM	12	0	15.76	15.91	15.84										
5	256QAM	12	7	15.67	15.86	15.73										
5	256QAM	12	13	15.63	15.86	15.81										
5	256QAM	25	0	15.90	16.01	15.96										
Channel																
Frequency (MHz)																
3	QPSK	1	0	16.92	17.25	17.05	18.4	0								
3	QPSK	1	12	17.12	17.26	17.10										
3	QPSK	1	24	17.08	17.04	17.00										
3	QPSK	8	0	17.19	17.15	17.15										
3	QPSK	8	4	17.10	17.05	16.94	18.4	0								
3	QPSK	8	12	17.09	17.08	16.96										
3	QPSK	16	0	17.01	17.22	17.08										
3	16QAM	1	0	17.12	17.22	17.11										
3	16QAM	1	8	16.93	17.05	17.01	18.4	0								
3	16QAM	1	14	17.10	17.24	17.11										
3	16QAM	8	4	17.14	17.15	17.01										
3	16QAM	8	7	17.11	17.22	17.08										
3	16QAM	1	12	17.03	17.17	17.11	18.4	0								
3	16QAM	1	8	16.99	17.05	16.95										
3	16QAM	8	4	17.05	17.11	17.09										
3	16QAM	8	7	17.07	17.18	17.07										
3	16QAM	8	4	17.12	17.20	17.07	18.4	0								
3	16QAM	16	0	17.07	17.12	17.06										
3	256QAM	1	0	15.82	16.00	15.83										
3	256QAM	1	8	15.91	15.91	15.83										
3	256QAM	1	14	15.77	15.87	15.72	17	1.4								
3	256QAM	8	0	15.86	15.97	15.86										
3	256QAM	8	4	15.79	15.89	15.86										
3	256QAM	8	7	15.79	15.79	15.71										
3	256QAM	16	0	15.94	15.96	15.93										
3	256QAM	16	0	15.19	15.30	15.23										
Channel																
Frequency (MHz)																
1.4	QPSK	1	0	16.87	17.22	17.01	18.4	0								
1.4	QPSK	1	16	17.17	17.24	17.10										
1.4	QPSK	1	0	16.87	17.14	16.86										
1.4	QPSK	3	0	17.14	17.25	17.13										
1.4	QPSK	3	0	17.05	17.05	16.94	18.4	0								
1.4	QPSK	3	1	17.02	17.12	16.96										
1.4	QPSK	3	1	17.12	17.18	17.01										
1.4	QPSK	3	1	17.11	17.17	16.99										
1.4	QPSK	3	1	17.07	17.17	17.01	18.4	0								
1.4	QPSK	3	1	17.07	17.17	17.01										
1.4	QPSK	3	1	17.05	17.03	16.95										
1.4	QPSK	3	0	17.04	17.13	17.06										
1.4	QPSK	3	0	17.14	17.14	17.07	18.4	0								
1.4	QPSK	3	0	17.03	17.13	17.01										
1.4	QPSK	3	0	17.06	17.13	17.07										
1.4	QPSK	3	0	15.90	15.92	15.86										
1.4	256QAM	1	0	15.77	15.81	15.74	17	1.4								
1.4	256QAM	1	8	15.82	15.87	15.80										
1.4	256QAM	3	0	15.89	15.78	15.73										
1.4	256QAM	3	0	15.71	15.78	15.74										
1.4	256QAM	3	0	15.19	15.30	15.23										
Channel																
Frequency (MHz)																



Band 38 Ant1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)			
Channel				37650	38000	38150					
Frequency (MHz)				2574.5	2599.5	2611.5					
20	QPSK	1	0	19.96	20.01	20.11	21.2	0			
20	QPSK	1	49	19.94	20.19	20.08					
20	QPSK	1	99	19.90	20.05	19.99					
20	QPSK	50	0	20.04	20.10	20.02					
20	QPSK	50	24	19.91	20.14	20.10	21.2	0			
20	QPSK	50	50	19.93	20.19	19.98					
20	QPSK	100	0	20.01	20.15	20.00					
20	16QAM	1	0	19.88	20.07	19.95					
20	16QAM	1	49	19.95	20.00	19.96	21.2	0			
20	16QAM	1	99	19.90	20.12	20.05					
20	16QAM	50	0	19.92	19.98	19.91					
20	16QAM	50	50	19.93	19.95	19.40					
20	16QAM	50	50	19.48	19.54	19.48	21	0.2			
20	16QAM	100	0	19.97	19.99	19.49					
20	84QAM	1	0	19.90	19.91	19.47					
20	84QAM	1	49	19.97	19.86	19.58					
20	84QAM	1	99	19.80	19.54	19.39	20	1.2			
20	84QAM	50	24	18.53	18.63	18.52					
20	84QAM	50	50	18.38	18.52	18.45					
20	84QAM	100	0	18.90	18.60	18.48					
20	256QAM	1	0	18.51	18.56	18.47	18	3.2			
20	256QAM	1	49	18.97	18.46	18.30					
20	256QAM	1	99	18.46	18.52	18.39					
20	256QAM	50	0	18.48	18.50	18.50					
20	256QAM	50	24	18.34	18.44	18.40	18	3.2			
20	256QAM	50	50	18.60	18.63	18.61					
20	256QAM	100	0	18.50	18.60	18.50					
Channel				37625	38000	38175				Tune-up Int. (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2599.5	2617.5					
15	QPSK	1	0	19.90	20.13	20.04	21.2			0	
15	QPSK	1	47	19.91	20.13	19.97					
15	QPSK	1	74	19.77	19.95	19.83					
15	QPSK	36	0	20.04	20.10	19.98					
15	QPSK	36	20	19.99	20.03	19.97	21.2	0			
15	QPSK	36	20	19.99	20.03	19.97					
15	QPSK	75	0	19.90	20.04	19.99					
15	16QAM	1	0	19.79	19.99	19.84					
15	16QAM	1	47	19.90	19.97	19.94	21.2	0			
15	16QAM	1	74	19.79	19.97	20.05					
15	16QAM	36	0	19.47	19.47	19.43					
15	16QAM	36	20	19.94	19.35	19.34					
15	16QAM	36	39	19.04	19.48	19.35	21	0.2			
15	16QAM	75	0	19.51	19.50	19.38					
15	84QAM	1	0	19.45	19.45	19.35					
15	84QAM	1	27	19.46	19.62	19.47					
15	84QAM	1	74	19.25	19.46	19.25	20	1.2			
15	84QAM	36	0	18.97	18.92	18.40					
15	84QAM	36	20	18.43	18.59	18.51					
15	84QAM	36	39	18.42	18.47	18.46					
15	84QAM	75	0	18.90	19.05	18.44	18	3.2			
15	256QAM	1	0	18.45	18.51	18.34					
15	256QAM	1	47	19.75	18.33	18.18					
15	256QAM	1	74	18.40	18.40	18.38					
15	256QAM	36	0	18.53	18.59	18.44	18	3.2			
15	256QAM	36	20	18.19	18.37	18.31					
15	256QAM	36	39	18.51	18.48	18.39					
15	256QAM	75	0	18.48	18.50	18.37					
Channel				37610	38000	38170	Tune-up Int. (dBm)			MPR (dB)	
Frequency (MHz)				2571.5	2599.5	2615.5					
10	QPSK	1	0	19.84	20.02	20.02	21.2	0			
10	QPSK	1	25	19.79	20.13	19.98					
10	QPSK	1	49	19.75	19.86	19.88					
10	QPSK	25	0	19.90	20.10	19.87					
10	QPSK	25	12	19.74	20.02	20.08	21.2	0			
10	QPSK	25	25	19.77	19.95	19.97					
10	QPSK	50	0	19.84	20.10	19.90					
10	16QAM	1	0	19.85	20.03	19.88					
10	16QAM	1	25	19.81	19.99	19.88	21.2	0			
10	16QAM	1	49	19.78	20.04	19.91					
10	16QAM	25	0	19.43	19.55	19.39					
10	16QAM	25	12	19.18	19.32	19.26					
10	16QAM	25	25	19.44	19.52	19.43	21	0.2			
10	16QAM	50	0	19.51	19.49	19.42					
10	84QAM	1	0	19.33	19.57	19.34					
10	84QAM	1	25	19.50	19.57	19.49					
10	84QAM	1	49	19.37	19.37	19.30	20	1.2			
10	84QAM	25	0	18.44	18.43	18.42					
10	84QAM	25	12	18.02	18.59	18.35					
10	84QAM	25	25	18.24	18.40	18.29					
10	84QAM	50	0	18.43	18.51	18.38	18	3.2			
10	256QAM	1	0	18.38	18.43	18.46					
10	256QAM	1	25	18.07	18.35	18.16					
10	256QAM	1	49	18.01	18.45	18.25					
10	256QAM	25	0	18.44	18.50	18.40	18	3.2			
10	256QAM	25	12	18.24	18.30	18.27					
10	256QAM	25	25	18.57	18.52	18.49					
10	256QAM	50	0	18.42	18.46	18.49					
Channel				3773.5	38000	38225	Tune-up Int. (dBm)			MPR (dB)	
Frequency (MHz)				2573.5	2595	2617.5					
5	QPSK	1	0	19.80	20.13	20.01	21.2	0			
5	QPSK	1	12	19.87	20.03	19.98					
5	QPSK	1	24	19.97	19.89	19.93					
5	QPSK	12	0	20.00	20.07	20.00					
5	QPSK	12	7	19.79	20.05	20.01	21.2	0			
5	QPSK	12	13	19.83	20.02	19.92					
5	QPSK	26	0	19.98	19.99	19.69					
5	16QAM	1	0	19.82	19.93	19.85					
5	16QAM	1	12	19.80	19.91	19.82	21.2	0			
5	16QAM	1	24	19.86	19.90	20.03					
5	16QAM	12	0	19.47	19.44	19.36					
5	16QAM	12	7	19.19	19.43	19.37					
5	16QAM	12	13	19.31	19.41	19.45	21	0.2			
5	16QAM	25	0	19.83	19.50	19.32					
5	16QAM	1	0	19.44	19.52	19.44					
5	16QAM	1	12	19.61	19.52	19.39					
5	84QAM	1	24	19.33	19.51	19.22	21	0.2			
5	84QAM	12	0	18.38	18.40	18.47					
5	84QAM	12	7	18.41	18.47	18.48					
5	84QAM	12	13	18.24	18.41	18.38					
5	84QAM	25	0	18.39	18.46	18.32	18	3.2			
5	256QAM	1	0	18.41	18.39	18.37					
5	256QAM	1	12	18.33	18.38	18.18					
5	256QAM	1	24	18.20	18.30	18.24					
5	256QAM	12	0	18.28	18.40	18.47	18	3.2			
5	256QAM	12	7	18.20	18.40	18.31					
5	256QAM	12	13	18.44	18.50	18.38					
5	256QAM	25	0	18.43	18.50	18.37					

Band 38 HPUE Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2599.5	2599.5	2611.5			
20	QPSK	1	0	21.70	21.52	21.63	22.8	0	
20	QPSK	1	49	21.68	21.73	21.61			
20	QPSK	1	99	21.60	21.47	21.58			
20	QPSK	50	0	21.71	21.79	21.69			
20	QPSK	5	0	21.69	21.69	21.69	22.8	0	
20	QPSK	50	24	21.59	21.73	21.69			
20	QPSK	100	0	21.55	21.68	21.64			
20	QPSK	100	0	21.55	21.68	21.64			
20	16QAM	1	0	21.58	21.68	21.54	22.8	0	
20	16QAM	1	49	21.57	21.78	21.57			
20	16QAM	1	99	21.58	21.73	21.62			
20	16QAM	50	0	21.63	21.77	21.64			
20	16QAM	5	0	21.62	21.76	21.64	22.8	0	
20	16QAM	50	24	21.49	21.82	21.53			
20	16QAM	100	0	21.50	21.80	21.63			
20	16QAM	100	0	21.50	21.80	21.63			
20	256QAM	1	0	19.62	19.71	19.60	21	1.8	
20	256QAM	1	49	19.52	19.82	19.55			
20	256QAM	1	99	19.63	19.67	19.56			
20	256QAM	1	149	19.53	19.79	19.50			
20	256QAM	1	0	19.62	19.71	19.60	21	1.8	
20	256QAM	1	49	19.49	19.55	19.45			
20	256QAM	1	99	19.61	19.64	19.54			
20	256QAM	1	149	19.48	19.52	19.48			
Channel				37825	38000	38175	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				2597.5	2597.5	2612.5			
15	QPSK	1	0	21.64	21.71	21.63	22.8	0	
15	QPSK	1	37	21.62	21.64	21.47			
15	QPSK	1	74	21.65	21.64	21.57			
15	QPSK	36	0	21.64	21.72	21.64			
15	QPSK	36	20	21.48	21.68	21.64	22.8	0	
15	QPSK	36	56	21.48	21.68	21.64			
15	QPSK	36	92	21.48	21.68	21.64			
15	QPSK	36	128	21.48	21.68	21.64			
15	QPSK	1	0	21.45	21.56	21.60	22.8	0	
15	16QAM	1	0	21.52	21.57	21.43			
15	16QAM	1	37	21.54	21.74	21.43			
15	16QAM	1	74	21.58	21.68	21.51			
15	16QAM	36	0	21.53	21.71	21.51	22.8	0	
15	16QAM	36	36	21.55	21.60	21.45			
15	16QAM	36	72	21.67	21.69	21.63			
15	16QAM	36	108	21.67	21.69	21.63			
15	16QAM	1	0	21.49	21.57	21.60	22.8	0	
15	16QAM	1	37	21.36	21.59	21.44			
15	16QAM	1	74	21.60	21.55	21.66			
15	16QAM	36	0	21.59	21.66	21.57			
15	16QAM	36	20	21.58	21.61	21.49	22.8	0	
15	16QAM	36	56	21.58	21.61	21.49			
15	16QAM	36	92	21.58	21.61	21.49			
15	16QAM	36	128	21.58	21.61	21.49			
15	16QAM	1	0	21.64	21.74	21.54	22.8	0	
15	16QAM	1	37	21.65	21.74	21.54			
15	16QAM	1	74	21.60	21.69	21.58			
15	16QAM	36	0	21.60	21.69	21.58			
15	256QAM	1	0	19.38	19.49	19.40	21	1.8	
15	256QAM	1	37	19.38	19.55	19.40			
15	256QAM	1	74	19.42	19.48	19.35			
15	256QAM	36	0	19.40	19.45	19.32			
15	256QAM	36	20	19.40	19.45	19.32	21	1.8	
15	256QAM	36	56	19.37	19.58	19.40			
15	256QAM	36	92	19.43	19.58	19.35			
15	256QAM	36	128	19.43	19.58	19.35			
Channel				37800	38000	38200	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				2595.0	2595.0	2617.5			
10	QPSK	1	0	21.68	21.77	21.63	22.8	0	
10	QPSK	1	25	21.62	21.63	21.66			
10	QPSK	1	50	21.65	21.64	21.67			
10	QPSK	25	0	21.61	21.65	21.62			
10	QPSK	25	12	21.51	21.66	21.66	22.8	0	
10	QPSK	25	37	21.51	21.66	21.66			
10	QPSK	25	62	21.51	21.66	21.66			
10	QPSK	25	87	21.51	21.66	21.66			
10	QPSK	1	0	21.42	21.62	21.63	22.8	0	
10	16QAM	1	0	21.48	21.58	21.41			
10	16QAM	1	25	21.49	21.74	21.41			
10	16QAM	1	49	21.60	21.69	21.50			
10	16QAM	25	0	21.58	21.66	21.58	22.8	0	
10	16QAM	25	12	21.48	21.62	21.53			
10	16QAM	25	25	21.59	21.76	21.54			
10	16QAM	25	37	21.56	21.69	21.50			
10	16QAM	1	0	21.54	21.63	21.54	22.8	0	
10	16QAM	1	25	21.44	21.64	21.39			
10	16QAM	1	49	21.57	21.74	21.47			
10	16QAM	25	0	21.68	21.66	21.61			
10	16QAM	25	12	21.56	21.64	21.51	22.8	0	
10	16QAM	25	25	21.48	21.63	21.45			
10	16QAM	25	37	21.56	21.75	21.47			
10	16QAM	25	49	21.59	21.67	21.49			
10	256QAM	1	0	19.38	19.57	19.47	21	1.8	
10	256QAM	1	49	19.49	19.62	19.50			
10	256QAM	1	99	19.40	19.63	19.45			
10	256QAM	25	12	19.40	19.48	19.36			
10	256QAM	25	25	19.42	19.58	19.47	21	1.8	
10	256QAM	25	37	19.38	19.58	19.35			
10	256QAM	25	49	19.40	19.58	19.35			
10	256QAM	25	61	19.38	19.58	19.35			
Channel				37775	38000	38225	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				2592.5	2592.5	2617.5			
5	QPSK	1	0	21.68	21.77	21.63	22.8	0	
5	QPSK	1	12	21.54	21.60	21.58			
5	QPSK	1	24	21.52	21.60	21.58			
5	QPSK	12	0	21.63	21.70	21.67			
5	QPSK	12	7	21.47	21.63	21.61	22.8	0	
5	QPSK	12	14	21.47	21.63	21.61			
5	QPSK	25	0	21.49	21.63	21.53			
5	16QAM	1	0	21.46	21.60	21.45			
5	16QAM	1	12	21.56	21.62	21.45	22.8	0	
5	16QAM	1	24	21.56	21.62	21.45			
5	16QAM	1	24	21.60	21.59	21.50			
5	16QAM	1	24	21.59	21.57	21.50			
5	16QAM	12	7	21.53	21.59	21.48	22.8	0	
5	16QAM	12	13	21.66	21.70	21.54			
5	16QAM	1	12	21.51	21.70	21.50			
5	16QAM	1	0	21.53	21.68	21.59			
5	16QAM	1	12	21.38	21.57	21.47	22.8	0	
5	16QAM	1	24	21.55	21.71	21.63			
5	16QAM	1	0	21.65	21.72	21.57			
5	16QAM	1	7	21.47	21.65	21.57			
5	16QAM	12	13	21.47	21.55	21.53	22.8	0	
5	16QAM	25	0	21.61	21.59	21.60			
5	16QAM	25	0	21.60	21.61	21.50			
5	256QAM	1	12	19.48	19.58	19.42			
5	256QAM	1	24	19.49	19.60	19.40	21	1.8	
5	256QAM	1	49	19.40	19.54	19.45			
5	256QAM	12	7	19.39	19.51	19.37			
5	256QAM	12	13	19.46	19.55	19.30			
5	256QAM	12	13	19.39	19.50	19.30	21	1.8	
5	256QAM	12	13	19.46	19.55	19.30			
5	256QAM	12	13	19.40	19.50	19.30			
5	256QAM	12	13	19.39	19.51	19.37			

Band 41 Ant1												
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power Low Hgh Ch / Freq	Power High Hgh Ch / Freq	Turn-up test (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				39750	40188	40600	41066	41490	41914			
20	QPSK	1	0	20.00	20.24	20.13	20.15	20.02	20.02			
20	QPSK	1	40	20.11	20.20	20.28	20.17	20.12	20.12	21.2	0	
20	QPSK	1	40	20.13	20.18	20.23	20.11	20.18	20.18			
20	QPSK	50	5	20.22	20.11	20.27	20.12	20.07	20.07			
20	QPSK	50	24	20.16	20.12	20.20	20.11	20.17	20.17	21.2	0	
20	QPSK	50	40	20.05	20.14	20.24	20.20	20.20	20.20			
20	QPSK	100	0	20.11	20.12	20.15	20.01	20.02	20.02			
20	16QAM	1	0	20.01	20.01	20.16	20.01	20.08	20.08	21.2	0	
20	16QAM	1	40	20.22	20.21	20.26	20.19	20.15	20.15			
20	16QAM	1	99	20.14	20.14	20.23	20.12	20.13	20.13			
20	16QAM	50	0	19.93	19.42	19.55	19.46	19.44	19.44			
20	16QAM	50	24	19.92	19.40	19.46	19.34	19.29	19.29	21	0.2	
20	16QAM	50	50	19.59	19.44	19.52	19.48	19.40	19.40			
20	16QAM	100	0	19.44	19.44	19.55	19.51	19.41	19.41			
20	16QAM	100	0	19.55	19.45	19.74	19.57	19.55	19.55			
20	16QAM	1	49	19.47	19.52	19.63	19.49	19.43	19.43	21	0.2	
20	16QAM	1	99	19.52	19.52	19.60	19.52	19.52	19.52			
20	16QAM	50	5	19.35	19.48	19.52	19.39	19.33	19.33			
20	16QAM	50	24	19.20	19.35	19.40	19.28	19.24	19.24	20	1.2	
20	16QAM	50	50	19.24	19.34	19.48	19.37	19.25	19.25			
20	16QAM	100	0	19.39	19.50	19.61	19.53	19.47	19.47			
20	256QAM	1	0	19.46	19.54	19.67	19.58	19.51	19.51	18	3.2	
20	256QAM	1	40	19.55	19.59	19.71	19.59	19.56	19.56			
20	256QAM	1	99	19.46	19.48	19.62	19.48	19.47	19.47			
20	256QAM	50	0	19.42	19.50	19.57	19.47	19.47	19.47			
20	256QAM	50	24	19.35	19.45	19.54	19.48	19.40	19.40	18	3.2	
20	256QAM	50	50	19.49	19.57	19.66	19.61	19.54	19.54			
20	256QAM	100	0	19.48	19.47	19.73	19.64	19.53	19.53			
Channel												
Frequency (MHz)				39750	40173	40600	41066	41515	41914	Turn-up test (dBm)	MPR (dB)	
18	QPSK	1	0	19.92	20.19	20.16	20.13	19.93	19.93	21	0	
18	QPSK	1	37	19.98	20.08	20.13	20.11	20.02	20.02			
18	QPSK	1	74	20.03	20.15	20.12	19.98	19.96	19.96			
18	QPSK	36	20	20.07	20.08	20.04	20.03	20.05	20.05	21.2	0	
18	QPSK	36	39	19.99	20.04	20.03	19.87	19.86	19.86			
18	16QAM	1	0	19.92	19.94	20.00	19.97	19.90	19.90	21.2	0	
18	16QAM	1	37	19.97	20.10	20.20	20.06	20.09	20.09			
18	16QAM	1	74	20.10	20.03	20.16	20.04	20.00	20.00			
18	16QAM	36	0	19.20	19.39	19.48	19.37	19.41	19.41	21	0.2	
18	16QAM	36	39	19.26	19.37	19.31	19.25	19.25	19.25			
18	16QAM	36	39	19.33	19.39	19.47	19.37	19.31	19.31			
18	16QAM	75	0	19.29	19.37	19.45	19.47	19.32	19.32	21	0.2	
18	16QAM	1	0	19.45	19.53	19.71	19.61	19.49	19.49	1		
18	16QAM	1	37	19.38	19.43	19.58	19.44	19.37	19.37	21	0.2	
18	16QAM	1	74	19.46	19.54	19.59	19.52	19.35	19.35			
18	16QAM	36	0	19.30	19.32	19.42	19.30	19.30	19.30	20	1.2	
18	16QAM	36	20	19.05	19.31	19.36	19.29	19.19	19.19			
18	16QAM	36	39	19.24	19.34	19.35	19.24	19.15	19.15			
18	16QAM	75	0	19.24	19.44	19.48	19.45	19.43	19.43			
18	256QAM	1	0	19.40	19.42	19.59	19.49	19.44	19.44	18	3.2	
18	256QAM	1	37	19.41	19.46	19.54	19.51	19.45	19.45			
18	256QAM	1	74	19.34	19.42	19.58	19.34	19.42	19.42			
18	256QAM	36	0	19.20	19.36	19.53	19.40	19.22	19.22	18	3.2	
18	256QAM	36	39	19.32	19.41	19.44	19.41	19.29	19.29			
18	256QAM	36	39	19.34	19.49	19.55	19.52	19.48	19.48			
18	256QAM	75	0	19.36	19.50	19.58	19.53	19.50	19.50			
Channel												
Frequency (MHz)				39750	40160	40600	41066	41540	41940	Turn-up test (dBm)	MPR (dB)	
18	QPSK	1	0	19.98	20.17	20.13	20.03	19.94	19.94	21	0	
18	QPSK	1	25	20.05	20.05	20.17	20.03	19.94	19.94	21	0	
18	QPSK	1	49	20.03	20.10	20.11	19.94	19.89	19.89			
18	QPSK	25	0	20.09	20.02	20.12	19.86	19.81	19.81	21.2	0	
18	QPSK	25	12	20.11	19.98	20.03	20.01	20.04	20.04			
18	QPSK	25	25	20.05	20.05	20.18	20.16	20.01	20.01			
18	QPSK	50	0	20.04	20.01	19.98	19.87	19.81	19.81	21.2	0	
18	16QAM	1	0	19.94	19.98	20.07	19.96	20.09	20.09			
18	16QAM	1	25	20.06	20.04	20.10	20.01	20.09	20.09			
18	16QAM	1	49	20.07	20.04	20.18	20.00	20.03	20.03			
18	16QAM	25	0	19.29	19.38	19.45	19.33	19.34	19.34	21	0.2	
18	16QAM	25	19	19.36	19.26	19.31	19.26	19.11	19.11			
18	16QAM	25	19	19.35	19.30	19.47	19.43	19.32	19.32			
18	16QAM	50	0	19.40	19.37	19.55	19.37	19.32	19.32			
18	16QAM	1	0	19.92	19.93	19.95	19.83	19.41	19.41	21	0.2	
18	16QAM	1	25	19.44	19.44	19.50	19.38	19.31	19.31			
18	16QAM	1	49	19.42	19.47	19.55	19.49	19.47	19.47			
18	16QAM	25	0	19.20	19.30	19.43	19.25	19.29	19.29	20	1.2	
18	16QAM	25	12	19.13	19.31	19.31	19.24	19.14	19.14			
18	16QAM	25	25	19.16	19.30	19.44	19.26	19.22	19.22			
18	16QAM	50	0	19.30	19.45	19.57	19.46	19.37	19.37			
18	256QAM	1	0	19.39	19.40	19.56	19.52	19.43	19.43	18	3.2	
18	256QAM	1	25	19.47	19.50	19.64	19.52	19.51	19.51			
18	256QAM	1	49	19.38	19.34	19.48	19.36	19.40	19.40			
18	256QAM	25	0	19.25	19.44	19.52	19.38	19.21	19.21	18	3.2	
18	256QAM	25	0	19.23	19.39	19.42	19.37	19.20	19.20			
18	256QAM	25	25	19.35	19.42	19.57	19.52	19.48	19.48			
18	256QAM	50	0	19.33	19.58	19.63	19.61	19.47	19.47			
Channel												
Frequency (MHz)				39750	40148	40600	41066	41565	41965	Turn-up test (dBm)	MPR (dB)	
18	QPSK	1	0	19.94	20.14	20.14	19.94	19.94	19.94	21	0	
18	QPSK	1	12	19.95	20.07	20.15	20.09	19.88	19.88	21	0	
18	QPSK	1	24	19.93	20.03	20.11	20.05	19.87	19.87			
18	QPSK	12	0	20.04	19.96	20.13	20.04	20.17	20.17			
18	QPSK	12	7	20.04	20.05	20.07	19.96	20.10	20.10	21.2	0	
18	QPSK	12	19	20.04	20.03	20.05	19.93	20.01	20.01			
18	QPSK	25	0	19.84	19.99	20.02	19.98	19.98	19.98			
18	QPSK	25	1	19.96	19.93	20.01	19.93	19.97	19.97			
18	16QAM	1	12	19.98	19.98	20.13	19.91	20.02	20.02	21.2	0	
18	16QAM	1	24	20.03	20.02	20.09	20.09	20.20	20.20			
18	16QAM	12	7	19.92	19.97	20.01	19.92	20.01	20.01			
18	16QAM	12	7	19.16	19.33	19.36	19.30	19.18	19.18	21	0.2	
18	16QAM	12	13	19.33	19.33	19.44	19.44	19.39	19.39			
18	16QAM	25	0	19.26	19.32	19.41	19.30	19.30	19.30			
18	16QAM	1	0	19.93	19.94	19.66	19.95	19.95	19.95			
18	16QAM	1	12	19.38	19.38	19.07	19.36	19.36	19.36	21	0.2	
18	16QAM	1	24	19.36	19.47	19.50	19.46	19.47	19.47			
18	16QAM	12	0	19.20	19.35	19.41	19.27	19.23	19.23			
18	16QAM	12	7	19.17	19.31	19.31	19.14	19.13	19.13			
18	16QAM	12	13	19.16	19.31	19.41	19.28	19.22	19.22			
18	16QAM	25	0	19.30	19.47	19.55	19.50	19.36	19.36			
18	16QAM	25	1	19.36	19.41	19.51	19.46	19.31	19.31			
18	256QAM	1	12	19.50	19.56	19.63	19.55	19.49	19.49	18	3.2	
18	256QAM	1	24	19.44	19.35	19.48	19.41	19.43	19.43			
18	256QAM	12	0	19.25	19.44	19.52	19.42	19.22	19.22			
18	256QAM	12	7	19.27	19.37	19.45	19.41	19.37	19.37			
18	256QAM	12	13	19.42	19.53	19.62	19.55	19.47	19.47			
18	256QAM	25	0	19.33	19.52	19.60	19.55	19.40	19.40			

Band 41 HPUE Ant1												
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power Low Hgh Ch / Freq	Power High Hgh Ch / Freq	Turn-up test (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				39750	40188	40600	41066	41490	41914			
20	QPSK	1	0	21.60	21.74	21.87	21.82	21.62	21.62	22.8	0	
20	QPSK	1	40	21.57	21.69	21.73	21.62	21.56	21.56			
20	QPSK	1	80	21.60	21.63	21.71	21.63	21.54	21.54			
20	QPSK	50	0	21.70	21.70	21.84	21.78	21.78	21.78	22.8	0	
20	QPSK	50	24	21.75	21.76	21.83	21.70	21.71	21.71			
20	QPSK	50	40	21.62	21.62	21.72	21.63	21.62	21.62			
20	QPSK	100	0	21.76	21.70	21.83	21.73	21.80	21.80			
20	16QAM	1	0	21.70	21.66	21.73	21.61	21.57	21.57	22.8	0	
20	16QAM	1	40	21.68	21.68	21.75	21.71	21.57	21.57			
20	16QAM	1	99	21.77	21.70	21.83	21.71	21.74	21.74			
20	16QAM	50	0	21.74	21.72	21.81	21.69	21.69	21.69			
20	16QAM	50	24	21.69	21.68	21.75	21.71	21.55	21.55	22.8	0	
20	16QAM	50	50	21.60	21.60	21.77	21.70	21.71	21.71			
20	16QAM	100	0	21.60	21.59	21.76	21.68	21.68	21.68			
20	16QAM	1	0	21.95	21.71	21.77	21.92	21.92	21.92	22.8	0	
20	16QAM	1	40	21.68	21.63	21.74	21.56	21.65	21.65			
20	16QAM	1	99	21.51	21.62	21.76	21.73	21.74	21.74			
20	16QAM	50	5	21.33	21.43	21.55	21.51	21.49	21.49			
20	16QAM	50	24	21.44	21.53	21.60	21.47	21.56	21.56	22.8	0	
20	16QAM	50	40	21.29	21.46	21.58	21.43	21.58	21.58			
20	16QAM	100	0	21.38	21.58	21.69	21.51	21.51	21.51			
20	25QAM	1	0	19.49	19.57	19.67	19.54	19.56	19.56	21	1.8	
20	25QAM	1	40	19.42	19.44	19.50	19.41	19.41	19.41			
20	25QAM	1	99	19.48	19.53	19.62	19.54	19.49	19.49			
20	25QAM	50	0	19.47	19.47	19.54	19.50	19.45	19.45			
20	25QAM	50	24	19.32	19.47	19.53	19.42	19.42	19.42	21	1.8	
20	25QAM	50	40	19.43	19.51	19.64	19.52	19.47	19.47			
20	25QAM	100	0	19.46	19.47	19.60	19.47	19.47	19.47			
Channel												
Frequency (MHz)				39750	40188	40600	41066	41490	41914	Turn-up test (dBm)	MPR (dB)	
15	QPSK	1	0	21.60	21.74	21.87	21.82	21.62	21.62	22.8	0	
15	QPSK	1	37	21.51	21.58	21.64	21.50	21.41	21.41	23	0	
15	QPSK	1	74	21.50	21.55	21.59	21.55	21.46	21.46			
15	QPSK	50	0	21.63	21.66	21.76	21.68	21.68	21.68	22.8	0	
15	QPSK	50	37	21.58	21.67	21.69	21.60	21.65	21.65			
15	QPSK	50	74	21.63	21.62	21.68	21.60	21.65	21.65			
15	QPSK	100	0	21.72	21.63	21.74	21.67	21.61	21.61			
15	16QAM	1	0	21.63	21.49	21.58	21.56	21.47	21.47	22.8	0	
15	16QAM	1	37	21.48	21.43	21.44	21.39	21.34	21.34			
15	16QAM	1	74	21.64	21.64	21.59	21.57	21.55	21.55			
15	16QAM	50	0	21.58	21.63	21.68	21.68	21.60	21.60	22.8	0	
15	16QAM	50	37	21.64	21.59	21.61	21.57	21.54	21.54			
15	16QAM	50	74	21.61	21.56	21.71	21.60	21.65	21.65			
15	16QAM	100	0	21.61	21.52	21.63	21.57	21.55	21.55			
15	16QAM	1	0	21.40	21.65	21.66	21.45	21.63	21.63			
15	16QAM	1	37	21.65	21.47	21.58	21.48	21.53	21.53	22.8	0	
15	16QAM	1	74	21.68	21.74	21.51	21.70	21.66	21.66			
15	16QAM	50	0	21.21	21.37	21.50	21.38	21.38	21.38			
15	16QAM	50	37	21.32	21.41	21.46	21.34	21.42	21.42	22.8	0	
15	16QAM	50	74	21.19	21.34	21.49	21.36	21.45	21.45			
15	16QAM	100	0	21.25	21.45	21.52	21.47	21.52	21.52			
15	25QAM	1	0	19.37	19.37	19.37	19.37	19.37	19.37	21	1.8	
15	25QAM	1	37	19.37	19.34	19.35	19.35	19.35	19.35			
15	25QAM	1	74	19.39	19.40	19.35	19.38	19.45	19.45			
15	25QAM	50	0	19.38	19.36	19.36	19.36	19.36	19.36	21	1.8	
15	25QAM	50	37	19.34	19.30	19.40	19.35	19.39	19.39			
15	25QAM	50	74	19.32	19.44	19.33	19.44	19.46	19.46			
15	25QAM	100	0	19.31	19.33	19.33	19.33	19.33	19.33			
Channel												
Frequency (MHz)				39750	40188	40600	41066	41490	41914	Turn-up test (dBm)	MPR (dB)	
10	QPSK	1	0	21.60	21.74	21.87	21.82	21.62	21.62	22.8	0	
10	QPSK	1	25	21.52	21.63	21.67	21.56	21.49	21.49	22.8	0	
10	QPSK	1	50	21.48	21.56	21.61	21.50	21.43	21.43			
10	QPSK	25	0	21.66	21.60	21.67	21.67	21.67	21.67			
10	QPSK	25	12	21.67	21.64	21.67	21.64	21.67	21.67	22.8	0	
10	QPSK	25	37	21.67	21.64	21.67	21.64	21.67	21.67			
10	QPSK	50	0	21.66	21.61	21.69	21.68	21.63	21.63			
10	16QAM	1	0	21.58	21.43	21.63	21.50	21.40	21.40	22.8	0	
10	16QAM	1	25	21.57	21.42	21.62	21.49	21.48	21.48			
10	16QAM	1	49	21.73	21.61	21.72	21.57	21.56	21.56			
10	16QAM	25	0	21.62	21.63	21.76	21.67	21.61	21.61			
10	16QAM	25	12	21.65	21.49	21.65	21.49	21.51	21.51	22.8	0	
10	16QAM	25	37	21.68	21.54	21.66	21.58	21.64	21.64			
10	16QAM	50	0	21.68	21.64	21.76	21.68	21.63	21.63			
10	16QAM	1	0	21.51	21.57	21.67	21.52	21.43	21.43			
10	16QAM	1	25	21.51	21.49	21.71	21.53	21.59	21.59	22.8	0	
10	16QAM	1	49	21.70	21.52	21.68	21.62	21.62	21.62			
10	16QAM	25	0	21.22	21.34	21.43	21.41	21.39	21.39			
10	16QAM	25	12	21.31	21.48	21.53	21.42	21.49	21.49	22.8	0	
10	16QAM	25	37	21.17	21.37	21.47	21.45	21.48	21.48			
10	16QAM	50	0	21.30	21.51	21.52	21.37	21.46	21.46			
10	25QAM	1	0	19.47	19.47	19.47	19.47	19.49	19.49	21	1.8	
10	25QAM	1	25	19.31	19.39	19.41	19.35	19.38	19.38			
10	25QAM	1	49	19.40	19.40	19.35	19.42	19.45	19.45			
10	25QAM	25	0	19.40	19.38	19.38	19.41	19.43	19.43	21	1.8	
10	25QAM	25	12	19.21	19.39	19.40	19.26	19.35	19.35			
10	25QAM	25	37	19.30	19.36	19.40	19.42	19.45	19.45			
10	25QAM	50	0	19.27	19.37	19.38	19.37	19.40	19.40	21	1.8	
Channel												
Frequency (MHz)				39675	40148	40600	41066	41490	41965	Turn-up test (dBm)	MPR (dB)	
5	QPSK	1	0	21.60	21.74	21.87	21.82	21.62	21.62	22.8	0	
5	QPSK	1	12	21.59	21.57	21.58	21.53	21.59	21.59	22.8	0	
5	QPSK	1	24	21.59	21.54	21.58	21.53	21.45	21.45			
5	QPSK	12	0	21.65	21.59	21.69	21.71	21.72	21.72			
5	QPSK	12	7	21.65	21.69	21.65	21.67	21.57	21.57	22.8	0	
5	QPSK	25	0	21.63	21.56	21.68	21.65	21.67	21.67			
5	QPSK	25	12	21.65	21.50	21.62	21.46	21.47	21.47			
5	16QAM	1	0	21.63	21.52	21.65	21.48	21.58	21.58	22.8	0	
5	16QAM	1	24	21.64	21.62	21.70	21.67	21.56	21.56			
5	16QAM	12	7	21.70	21.67	21.70	21.65	21.56	21.56			
5	16QAM	12	13	21.65	21.58	21.57	21.57	21.56	21.56	22.8	0	
5	16QAM	12	13	21.54	21.51	21.61	21.66	21.68	21.68			
5	16QAM	1	0	21.62	21.62	21.62	21.62	21.59	21.59			
5	16QAM	1	0	21.63	21.59	21.66	21.68	21.68	21.68			
5	16QAM	1	12	21.65	21.57	21.70	21.62	21.48	21.48	22.8	0	
5	16QAM	1	24	21.60	21.52	21.64	21.44	21.44	21.44			
5	16QAM	12	0	21.60	21.50	21.61	21.57	21.49	21.49			
5	16QAM	25	0	21.35	21.51	21.49	21.33	21.49	21.49			
5	25QAM	1	0	19.43	19.46	19.47	19.47	19.53	19.53	21	1.8	
5	25QAM	1	12	19.33	19.33	19.42	19.35	19.36	19.36			
5	25QAM	1	24	19.34	19.47	19.36	19.46	19.40	19.40	21	1.8	
5	25QAM	12	0	19.37	19.38	19.38	19.38	19.38	19.38			
5	25QAM	12	7	19.21	19.34	19.42	19.30	19.28	19.28			
5	25QAM	12	13	19.29	19.40	19.33	19.47	19.46	19.46	21	1.8	

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)	MPR (dB)										
Channel																		
Frequency (MHz)																		
20	QPSK	1	0	21.30	21.47	21.35	22.6	0										
20	QPSK	1	49	21.34	21.41	21.30												
20	QPSK	1	99	21.36	21.39	21.34												
20	QPSK	50	0	21.41	21.45	21.35												
20	QPSK	50	24	21.24	21.34	21.29	22.6	0										
20	QPSK	50	50	21.32	21.42	21.28												
20	QPSK	100	0	21.28	21.33	21.23												
20	16QAM	50	0	21.25	21.3	21.19												
20	16QAM	1	49	21.41	21.45	21.36	22.6	0										
20	16QAM	1	99	21.30	21.44	21.39												
20	16QAM	50	0	20.51	20.55	20.49												
20	16QAM	50	24	20.58	20.67	20.55												
20	16QAM	50	50	20.57	20.72	20.66	22	0.6										
20	16QAM	100	0	20.54	20.59	20.52												
20	84QAM	1	0	20.59	20.74	20.67												
20	84QAM	1	49	20.77	20.89	20.89												
20	84QAM	1	99	20.61	20.73	20.83	21	1.6										
20	84QAM	50	0	19.54	19.55	19.59												
20	84QAM	50	24	19.55	19.65	19.52												
20	84QAM	50	50	19.64	19.75	19.62												
20	84QAM	100	0	19.53	19.63	19.58	19	3.6										
20	256QAM	1	49	17.76	17.87	17.79												
20	256QAM	1	99	17.66	17.75	17.67												
20	256QAM	50	0	17.62	17.72	17.65												
20	256QAM	50	24	17.54	17.61	17.49	19	3.6										
20	256QAM	50	50	17.65	17.71	17.61												
20	256QAM	100	0	17.54	17.59	17.51												
Channel																		
Frequency (MHz)																		
16	QPSK	1	0	21.21	21.32	21.31	22.6	0										
16	QPSK	1	37	21.23	21.36	21.25												
16	QPSK	1	74	21.30	21.34	21.29												
16	QPSK	36	0	21.32	21.29	21.19												
16	QPSK	36	39	21.22	21.28	21.12	22.6	0										
16	QPSK	75	0	21.11	21.27	21.20												
16	16QAM	1	0	21.09	21.23	21.13												
16	16QAM	1	37	21.38	21.39	21.27												
16	16QAM	1	74	21.41	21.37	21.29	22.6	0										
16	16QAM	36	0	20.38	20.57	20.38												
16	16QAM	36	0	20.38	20.57	20.38												
16	16QAM	36	20	20.50	20.62	20.59												
16	16QAM	36	39	20.52	20.63	20.52	22	0.6										
16	16QAM	75	0	20.52	20.58	20.53												
16	84QAM	1	0	20.46	20.60	20.50												
16	84QAM	1	37	20.54	20.70	20.62	22	0.6										
16	84QAM	1	74	20.50	20.62	20.59												
16	84QAM	36	0	19.48	19.61	19.51												
16	84QAM	36	0	19.48	19.61	19.58												
16	84QAM	36	39	19.50	19.64	19.54	21	1.6										
16	84QAM	36	39	19.49	19.55	19.51												
16	84QAM	75	0	19.39	19.59	19.47												
16	256QAM	1	0	17.52	17.58	17.58												
16	256QAM	1	37	17.69	17.77	17.72	19	3.6										
16	256QAM	1	74	17.60	17.68	17.58												
16	256QAM	36	0	17.51	17.66	17.58												
16	256QAM	36	20	17.39	17.50	17.42												
16	256QAM	36	39	17.52	17.66	17.55	19	3.6										
16	256QAM	75	0	17.46	17.57	17.43												
Channel																		
Frequency (MHz)																		
16	QPSK	1	0	21.18	21.30	21.26			22.6	0								
16	QPSK	1	25	21.26	21.35	21.24												
16	QPSK	1	49	21.34	21.23	21.26												
16	QPSK	36	0	21.36	21.30	21.23												
16	QPSK	25	12	21.12	21.32	21.23	22.6	0										
16	QPSK	25	25	21.25	21.30	21.13												
16	QPSK	75	0	21.12	21.32	21.23												
16	16QAM	1	0	21.17	21.23	21.13												
16	16QAM	1	26	21.30	21.42	21.22	22.6	0										
16	16QAM	1	49	21.26	21.38	21.29												
16	16QAM	25	0	20.37	20.57	20.39												
16	16QAM	25	12	20.43	20.62	20.49												
16	16QAM	50	0	20.50	20.63	20.57	21	0.6										
16	16QAM	50	12	20.48	20.58	20.48												
16	16QAM	50	0	20.55	20.57	20.59												
16	84QAM	1	0	20.51	20.62	20.53												
16	84QAM	1	24	20.72	20.83	20.68	22	0.6										
16	84QAM	1	49	20.48	20.64	20.57												
16	84QAM	25	0	19.46	19.54	19.50												
16	84QAM	25	12	19.42	19.54	19.48												
16	84QAM	50	0	19.53	19.70	19.55	19	3.6										
16	84QAM	50	0	19.49	19.54	19.52												
16	256QAM	1	0	17.55	17.68	17.58												
16	256QAM	1	26	17.69	17.67	17.66												
16	256QAM	1	49	17.60	17.70	17.54	19	3.6										
16	256QAM	25	0	17.46	17.51	17.50												
16	256QAM	25	12	17.45	17.50	17.42												
16	256QAM	25	25	17.52	17.61	17.53												
16	256QAM	50	0	17.43	17.48	17.38	19	3.6										
16	256QAM	50	0	17.43	17.48	17.38												
Channel																		
Frequency (MHz)																		
5	QPSK	1	0	21.23	21.30	21.26	22.6	0										
5	QPSK	1	12	21.28	21.35	21.13												
5	QPSK	1	24	21.24	21.28	21.21												
5	QPSK	12	0	21.36	21.33	21.26												
5	QPSK	12	7	21.11	21.19	21.13	22.6	0										
5	QPSK	12	19	21.23	21.30	21.15												
5	QPSK	25	0	21.21	21.28	21.20												
5	16QAM	1	0	21.20	21.17	21.04												
5	16QAM	1	12	21.27	21.33	21.20	22.6	0										
5	16QAM	1	24	21.15	21.27	21.14												
5	16QAM	12	0	20.41	20.52	20.38												
5	16QAM	12	7	20.47	20.60	20.45												
5	16QAM	12	19	20.44	20.58	20.50	22	0.6										
5	16QAM	25	0	20.59	20.58	20.56												
5	16QAM	25	12	20.57	20.57	20.57												
5	84QAM	1	12	20.64	20.71	20.65												
5	84QAM	1	24	20.51	20.58	20.54	22	0.6										
5	84QAM	12	0	19.39	19.63	19.58												
5	84QAM	12	7	19.45	19.55	19.43												
5	84QAM	12	19	19.50	19.63	19.50												
5	84QAM	25	0	19.49	19.57	19.53	21	1.6										
5	84QAM	25	12	19.47	19.57	19.49												
5	84QAM	25	19	19.50	19.58	19.50												
5	256QAM	1	0	17.47	17.60	17.50												
5	256QAM	1	12	17.62	17.67	17.63	19	3.6										
5	256QAM	1	24	17.55	17.65	17.57												
5	256QAM	12	0	17.49	17.59	17.43												
5	256QAM	12	19	17.47	17.57	17.43												
5	256QAM	12	19	17.50	17.68	17.54	19	3.6										
5	256QAM	25	0	17.49	17.50	17.45												
Channel																		
Frequency (MHz)																		
3	QPSK	1	0	21.16	21.30	21.27			22.6	0								
3	QPSK	1	6	21.21	21.28	21.14												
3	QPSK	1	12	21.29	21.34	21.22												
3	QPSK	8	0	21.37	21.37	21.34												
3	QPSK	8	4	21.07	21.30	21.15	22.6	0										
3	QPSK	8	12	21.18	21.36	21.15												
3	QPSK	16	0	21.25	21.30	21.28												
3	16QAM	1	0	21.20	21.25	21.15												
3	16QAM	1	6	21.25	21.40	21.27	22.6	0										
3	16QAM	1	14	21.20	21.41	21.28												
3	16QAM	8	0	20.41	20.63	20.47												
3	16QAM	8	4	20.43	20.56	20.51												
3	16QAM	8	7	20.47	20.63	20.57	22	0.6										
3	16QAM	16	0	20.59	20.62	20.59												
3	16QAM	16	7	20.45	20.63	20.52												
3	84QAM	1	6	20.63	20.68	20.64												
3	84QAM	1	12	20.61	20.64	20.64	21	1.6										
3	84QAM	8	0	19.50	19.64	19.50												
3	84QAM	8	4	19.48	19.52	19.48												
3	84QAM	8	7	19.53	19.63	19.53												
3	84QAM	16	0	19.42	19.50	19.51	19	3.6										
3	256QAM	1	0	17.55	17.65	17.54												
3	256QAM	1	6	17.68	17.76	17.63												
3	256QAM	1	14	17.58	17.67	17.60												
3	256QAM	8	0	17.46	17.59	17.44	19	3.6										
3	256QAM	8	4	17.48	17.60	17.44												
Channel																		
Frequency (MHz)																		
1.4	QPSK	1	0	21.15	21.39	21.27			22.6	0								
1.4	QPSK	1	6	21.21	21.34	21.22												
1.4	QPSK	1	12	21.28	21.36	21.23												
1.4	QPSK	8	0	21.26	21.29	21.25												
1.4	QPSK	8	4	21.00	21.36	21.15	22.6	0										
1.4	QPSK	8	12	21.11	21.39	21.15												
1.4	QPSK	16	0	21.25	21.30	21.28												
1.4	16QAM	1	0	21.21	21.39	21.25												
1.4	16QAM	1	6	21.26	21.40	21.27	22.6	0										
1.4	16QAM	1	14	21.20	21.41	21.28												
1.4	16QAM	8	0	20.41	20.64	20.47												
1.4	16QAM	8	4	20.43	20.56	20.51												
1.4	16QAM	8	7	20.47	20.63	20.57	22	0.6										
1.4	16QAM	16	0	20.59	20.62	20.59												
1.4	16QAM	16	7	20.45	20.63	20.52												
1.4	84QAM	1	6	20.63	20.68	20.64												
1.4	84QAM	1	12	20.61	20.64	20.64	21	1.6										
1.4	84QAM	8	0	19.50	19.64	19.50												
1.4	84QAM	8																

Band 25 Ant2														
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq. 2645	Power Middle Ch / Freq. 2646	Power High Ch / Freq. 2647	Turn-up (dBm)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.25	21.55	21.33	22.6	0						
20	QPSK	1	49	21.27	21.42	21.31								
20	QPSK	1	99	21.35	21.39	21.29								
20	QPSK	50	0	21.38	21.42	21.39								
20	QPSK	50	24	21.30	21.41	21.34	22.6	0						
20	QPSK	50	50	21.27	21.39	21.21								
20	QPSK	100	0	21.34	21.46	21.40								
20	16QAM	1	0	21.37	21.44	21.34								
20	16QAM	1	49	21.33	21.43	21.37	22.6	0						
20	16QAM	1	99	21.42	21.40	21.34								
20	16QAM	50	0	20.62	20.69	20.65								
20	16QAM	50	24	20.60	20.63	20.60								
20	16QAM	50	50	20.67	20.71	20.68	22	0.6						
20	16QAM	100	0	20.69	20.69	20.64								
20	64QAM	1	0	20.65	20.70	20.67								
20	64QAM	1	49	20.63	20.71	20.72								
20	64QAM	1	99	20.67	20.65	20.64	22	0.6						
20	64QAM	50	0	19.53	19.63	19.51								
20	64QAM	50	24	19.59	19.69	19.56								
20	64QAM	50	50	19.61	19.74	19.65								
20	64QAM	100	0	19.57	19.65	19.61	19	3.6						
20	256QAM	1	0	17.64	17.77	17.62								
20	256QAM	1	49	17.58	17.62	17.53								
20	256QAM	1	99	17.65	17.74	17.67								
20	256QAM	50	0	17.56	17.64	17.61								
20	256QAM	50	24	17.56	17.68	17.58								
20	256QAM	50	50	17.67	17.73	17.64								
20	256QAM	100	0	17.66	17.69	17.61								
Channel														
Frequency (MHz)														
15	QPSK	1	0	21.23	21.36	21.29	22.6	0						
15	QPSK	1	37	21.19	21.38	21.17								
15	QPSK	1	74	21.30	21.29	21.16								
15	QPSK	36	0	21.33	21.30	21.31								
15	QPSK	36	20	21.23	21.35	21.24	22.6	0						
15	QPSK	36	39	21.16	21.28	21.06								
15	QPSK	75	0	21.39	21.30	21.25								
15	16QAM	1	1	21.28	21.32	21.24								
15	16QAM	1	37	21.29	21.39	21.25	22.6	0						
15	16QAM	1	74	21.24	21.27	21.26								
15	16QAM	36	0	20.48	20.57	20.39								
15	16QAM	36	20	20.48	20.55	20.40								
15	16QAM	50	0	20.48	20.55	20.57	22	0.6						
15	16QAM	50	24	20.48	20.55	20.57								
15	16QAM	75	0	20.48	20.55	20.57								
15	64QAM	1	0	20.57	20.57	20.58								
15	64QAM	1	37	20.60	20.63	20.64	22	0.6						
15	64QAM	1	74	20.47	20.52	20.40								
15	64QAM	36	0	19.46	19.53	19.43								
15	64QAM	36	20	19.50	19.56	19.45								
15	64QAM	36	39	19.55	19.55	19.52	21	1.6						
15	64QAM	75	0	19.54	19.58	19.57								
15	256QAM	1	0	17.53	17.55	17.54								
15	256QAM	1	37	17.49	17.54	17.41								
15	256QAM	1	74	17.63	17.66	17.63	19	3.6						
15	256QAM	36	0	17.60	17.62	17.46								
15	256QAM	36	20	17.47	17.53	17.48								
15	256QAM	36	39	17.57	17.59	17.59								
15	256QAM	75	0	17.41	17.48	17.45	19	3.6						
15	256QAM	75	20	17.41	17.48	17.45								
15	256QAM	75	39	17.41	17.48	17.45								
15	256QAM	75	60	17.41	17.48	17.45								
Channel														
Frequency (MHz)														
10	QPSK	1	0	21.11	21.44	21.28	22.6	0						
10	QPSK	1	25	21.12	21.27	21.27								
10	QPSK	1	49	21.24	21.27	21.13								
10	QPSK	25	0	21.23	21.27	21.29								
10	QPSK	25	12	21.18	21.31	21.29	22.6	0						
10	QPSK	25	25	21.21	21.26	21.09								
10	QPSK	50	0	21.24	21.28	21.25								
10	16QAM	1	0	21.21	21.34	21.29								
10	16QAM	1	25	21.26	21.27	21.22	22.6	0						
10	16QAM	1	50	21.33	21.37	21.17								
10	16QAM	25	0	20.48	20.57	20.39								
10	16QAM	25	12	20.54	20.58	20.38								
10	16QAM	50	0	20.56	20.58	20.44	22	0.6						
10	16QAM	50	25	20.50	20.54	20.58								
10	64QAM	1	0	20.58	20.63	20.52								
10	64QAM	1	25	20.54	20.58	20.58								
10	64QAM	1	49	20.52	20.49	20.48	22	0.6						
10	64QAM	25	0	19.45	19.58	19.45								
10	64QAM	25	12	19.55	19.55	19.47								
10	64QAM	25	25	19.54	19.63	19.55								
10	64QAM	50	0	19.51	19.56	19.45	21	1.6						
10	256QAM	1	0	17.58	17.71	17.58								
10	256QAM	1	25	17.48	17.48	17.41								
10	256QAM	1	49	17.56	17.62	17.52								
10	256QAM	25	0	17.44	17.59	17.39	19	3.6						
10	256QAM	25	12	17.49	17.59	17.36								
10	256QAM	25	25	17.64	17.60	17.59								
10	256QAM	50	0	17.58	17.62	17.51								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.23	21.36	21.29	22.6	0						
5	QPSK	1	12	21.14	21.32	21.24								
5	QPSK	1	24	21.21	21.29	21.24								
5	QPSK	12	0	21.23	21.26	21.38								
5	QPSK	12	7	21.27	21.33	21.30	22.6	0						
5	QPSK	12	13	21.12	21.26	21.14								
5	QPSK	25	0	21.31	21.43	21.33								
5	16QAM	1	0	21.28	21.32	21.24								
5	16QAM	1	12	21.26	21.34	21.33	22.6	0						
5	16QAM	1	24	21.28	21.31	21.21								
5	16QAM	12	0	20.57	20.59	20.53								
5	16QAM	12	7	20.53	20.53	20.39								
5	16QAM	12	13	20.56	20.52	20.45	22	0.6						
5	16QAM	25	0	20.48	20.56	20.38								
5	64QAM	1	0	20.54	20.57	20.50								
5	64QAM	1	12	20.56	20.70	20.59								
5	64QAM	1	24	20.46	20.47	20.47	21	1.6						
5	64QAM	12	0	19.39	19.53	19.41								
5	64QAM	12	7	19.44	19.56	19.48	21	1.6						
5	64QAM	12	13	19.52	19.48	19.62								
5	64QAM	12	25	19.52	19.56	19.48								
5	64QAM	1	0	17.53	17.67	17.58								
5	64QAM	1	12	17.54	17.53	17.39	19	3.6						
5	64QAM	1	24	17.60	17.58	17.46								
5	64QAM	12	0	17.46	17.53	17.43								
5	64QAM	12	7	17.41	17.52	17.48								
5	64QAM	12	13	17.45	17.48	17.36	19	3.6						
5	64QAM	12	25	17.45	17.48	17.36								
5	64QAM	25	0	17.63	17.55	17.43								
5	256QAM	1	0	17.63	17.75	17.63								
5	256QAM	25	0	17.58	17.60	17.47								
Channel														
Frequency (MHz)														
3	QPSK	1	0	21.11	21.46	21.28	22.6	0						
3	QPSK	1	8	21.17	21.32	21.27								
3	QPSK	1	16	21.21	21.30	21.28								
3	QPSK	8	0	21.30	21.39	21.33								
3	QPSK	8	4	21.19	21.27	21.19	22.6	0						
3	QPSK	8	12	21.26	21.31	21.24								
3	QPSK	16	0	21.31	21.34	21.33								
3	16QAM	1	0	21.28	21.36	21.29								
3	16QAM	1	8	21.24	21.38	21.29	22.6	0						
3	16QAM	1	16	21.31	21.34	21.31								
3	16QAM	8	0	20.61	20.63	20.59								
3	16QAM	8	4	20.61	20.58	20.42								
3	16QAM	8	12	20.55	20.58	20.45	22	0.6						
3	16QAM	16	0	20.53	20.56	20.49								
3	64QAM	1	0	20.51	20.64	20.51								
3	64QAM	1	8	20.50	20.72	20.59								
3	64QAM	1	16	20.48	20.73	20.64	21	1.6						
3	64QAM	8	0	19.47	19.61	19.51								
3	64QAM	8	4	19.47	19.63	19.51	21	1.6						
3	64QAM	8	12	19.48	19.59	19.48								
3	64QAM	16	0	19.42	19.62	19.51								
3	64QAM	16	8	19.52	17.68	17.48								
3	64QAM	1	0	17.52	17.68	17.48	19	3.6						
3	64QAM	1	8	17.53	17.67	17.47								
3	64QAM	1	16	17.58	17.69	17.47								
3	64QAM	8	0	17.46	17.53	17.43								
3	64QAM	1	14	17.60	17.67	17.58	19	3.6						
3	64QAM	8	0	17.52	17.61	17.46								
3	64QAM	8	4	17.51	17.68	17.47								
3	64QAM	8	12	17.51	17.68	17.47								
3	64QAM	8	16	17.61	17.64	17.51	19	3.6						
3	64QAM	16	0	17.58	17.60	17.47								
3	256QAM	1	0	17.60	17.72	17.60								
3	256QAM	1	8	17.62	17.70	17.62								
3	256QAM	1	16	17.53	17.72	17.50	19	3.6						
3	256QAM	8	0	17.49	17.68	17.62								
3	256QAM	8	4	17.49	17.68	17.62								
3	256QAM	8	12	17.49	17.68	17.62								
3	256QAM	8	16	17.58	17.69	17.61	22	0.6						
3	256QAM	16	0	20.55	20.56	20.50								
3	256QAM	16	8	20.55	20.56	20.49								
3	256QAM	16	16	20.55	20.56	20.49								
3	256QAM	1	0	19.39	19.54									

Band 41 Ant0												
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Mid Ch / Freq.	Power High Mid Ch / Freq.	Power Low Hgh Ch / Freq.	Power High Hgh Ch / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel												
				39790	40188	40620	41056	41490	41924			
				2102	21418	2173	22178	22502	22936			
20	QPSK	1	0	21.02	21.43	21.35	21.27	21.22	21.22			
20	QPSK	1	40	21.00	20.98	21.03	20.98	21.03	20.98	21.6	0	
20	QPSK	1	80	21.02	20.99	21.10	21.04	21.13	21.03			
20	QPSK	50	0	21.05	21.08	21.12	21.08	20.98	21.08			
20	QPSK	50	24	21.06	20.99	21.08	20.96	21.01	21.06	21.6	0	
20	QPSK	50	48	20.93	21.04	20.87	20.96	20.97	20.93			
20	QPSK	100	0	20.93	20.96	21.06	20.99	21.02	20.93			
20	16QAM	1	0	21.02	20.96	21.08	21.05	21.02	21.02	21.6	0	
20	16QAM	1	40	20.92	20.95	20.95	20.98	20.92	20.92			
20	16QAM	1	80	20.79	20.77	20.87	20.75	20.82	20.79			
20	16QAM	50	0	19.97	19.89	20.04	19.99	19.96	19.96			
20	16QAM	50	24	20.04	19.96	20.12	20.00	20.02	20.02	20.6	1	
20	16QAM	50	50	19.94	19.86	19.97	19.83	19.91	19.91			
20	16QAM	100	0	20.02	20.02	20.15	20.06	20.07	20.02			
20	16QAM	100	1	20.17	20.17	20.27	20.17	20.14	20.14			
20	16QAM	1	40	20.02	20.02	20.10	20.00	19.96	19.96	20.6	1	
20	16QAM	1	80	20.13	20.06	20.10	20.13	20.12	20.12			
20	16QAM	50	0	18.95	18.98	19.05	18.93	18.95	18.95			
20	16QAM	50	24	18.85	18.84	18.88	18.74	18.84	18.84	19.6	2	
20	16QAM	50	50	18.87	18.81	18.84	18.66	18.85	18.85			
20	16QAM	100	0	18.02	18.03	18.10	18.06	18.04	18.04			
20	256QAM	1	0	17.04	17.00	17.13	17.03	17.03	17.03			
20	256QAM	1	40	16.88	16.90	16.86	16.88	16.89	16.89	17.6	4	
20	256QAM	1	80	17.06	17.01	17.10	16.97	16.97	16.97			
20	256QAM	50	0	16.98	16.98	16.98	16.91	16.98	16.98			
20	256QAM	50	24	16.82	16.85	16.84	16.81	16.80	16.80	17.6	4	
20	256QAM	50	50	16.72	16.73	16.85	16.71	16.78	16.78			
20	256QAM	100	0	16.85	16.84	16.92	17.00	16.97	16.97			
Channel												
				39795	40173	40620	41056	41515	41915			
				2102.5	21413	2173	2217.8	22502.5	22936			
16	QPSK	1	0	21.02	21.29	21.26	21.18	21.21	21.21			
16	QPSK	1	37	20.84	20.87	21.04	20.86	20.92	20.87	22	0	
16	QPSK	1	74	20.91	20.91	21.06	21.07	21.00	20.90			
16	QPSK	1	8	20.99	21.03	21.01	20.94	20.91	20.91			
16	QPSK	36	20	20.89	20.88	20.95	20.90	20.97	20.87	21.6	0	
16	QPSK	36	36	20.79	20.87	20.86	20.86	20.86	20.86			
16	QPSK	75	0	20.90	20.90	20.97	20.88	20.89	20.89			
16	16QAM	1	0	20.33	20.30	20.37	20.31	20.38	20.38	21.6	0	
16	16QAM	1	40	20.48	20.30	20.31	20.75	20.75	20.75			
16	16QAM	1	74	20.70	20.72	20.78	20.71	20.72	20.72			
16	16QAM	36	0	19.94	19.77	19.95	19.79	19.84	19.84	20.6	1	
16	16QAM	36	36	19.80	19.80	19.80	19.85	19.85	19.85			
16	16QAM	36	39	19.69	19.72	19.86	19.72	19.78	19.78			
16	16QAM	75	0	19.91	20.01	20.00	19.89	19.93	19.93			
16	16QAM	1	0	20.05	20.08	20.22	20.07	20.00	20.00	20.6	1	
16	16QAM	1	37	19.96	19.99	20.03	19.89	19.89	19.89			
16	16QAM	1	74	20.06	19.97	20.09	20.06	20.05	20.05			
16	16QAM	36	0	18.85	18.80	18.93	18.89	18.80	18.80	19.6	2	
16	16QAM	36	20	18.75	18.72	18.74	18.64	18.71	18.71			
16	16QAM	36	36	18.75	18.75	18.75	18.74	18.74	18.74			
16	16QAM	75	0	18.07	18.05	18.07	18.00	18.04	18.04			
16	256QAM	1	0	17.01	16.88	16.99	16.91	16.88	16.88	17.6	4	
16	256QAM	1	40	16.84	16.87	16.74	16.74	16.74	16.74			
16	256QAM	1	74	16.93	16.96	16.96	16.89	16.91	16.91			
16	256QAM	36	0	16.94	16.87	16.94	16.77	16.89	16.89	17.6	4	
16	256QAM	36	36	16.95	16.89	16.83	16.74	16.84	16.84			
16	256QAM	36	39	16.86	16.70	16.75	16.59	16.68	16.68			
16	256QAM	75	0	16.93	16.80	16.90	16.87	16.87	16.87			
Channel												
				39795.5	40173.5	40620.5	41056.5	41515.5	41915.5			
				2102.5	21413.5	2173.5	2217.85	22502.5	22936.5			
16	QPSK	1	0	21.07	21.29	21.22	21.16	21.20	21.20			
16	QPSK	1	25	21.04	21.05	21.01	20.98	21.03	21.00	21.60	0	
16	QPSK	1	49	20.98	20.97	21.05	20.90	20.92	20.92			
16	QPSK	1	35	20.84	20.97	20.97	20.86	20.86	20.86			
16	QPSK	25	12	20.99	20.86	20.97	20.83	20.89	20.89	21.6	0	
16	QPSK	25	25	20.80	20.95	21.04	20.85	20.88	20.88			
16	QPSK	50	0	20.89	20.90	20.97	20.90	20.90	20.90			
16	16QAM	1	0	20.98	20.83	21.02	20.81	20.81	20.81	21.6	0	
16	16QAM	1	25	20.71	20.83	20.83	20.81	20.78	20.78			
16	16QAM	1	49	20.07	20.61	20.75	20.69	20.74	20.74			
16	16QAM	25	0	19.90	19.79	19.86	19.79	19.86	19.86	20.6	1	
16	16QAM	25	16	19.90	19.86	20.06	19.91	19.87	19.87			
16	16QAM	25	19	19.77	19.81	19.85	19.79	19.75	19.75			
16	16QAM	50	0	19.95	19.88	20.09	19.91	20.02	20.02			
16	16QAM	50	16	19.95	19.98	20.04	19.94	19.98	19.98	20.6	1	
16	16QAM	1	49	20.02	19.93	20.09	20.03	20.04	20.04			
16	16QAM	25	0	18.81	18.90	18.81	18.81	18.85	18.85			
16	16QAM	25	12	18.82	18.76	18.73	18.59	18.80	18.80	19.6	2	
16	16QAM	25	25	18.79	18.87	18.90	18.83	18.81	18.81			
16	16QAM	50	0	18.94	18.97	19.07	18.92	18.91	18.91			
16	256QAM	1	0	16.94	16.90	17.07	16.92	16.95	16.95	17.6	4	
16	256QAM	1	25	16.73	16.79	16.86	16.81	16.84	16.84			
16	256QAM	1	49	16.97	16.97	17.04	16.91	16.95	16.95			
16	256QAM	25	0	16.95	16.86	16.88	16.78	16.82	16.82			
16	256QAM	25	16	16.78	16.77	16.82	16.64	16.75	16.75	17.6	4	
16	256QAM	25	25	16.61	16.70	16.75	16.64	16.69	16.69			
16	256QAM	50	0	16.90	16.89	17.01	16.91	16.96	16.96			
Channel												
				39795.5	40173.5	40620.5	41056.5	41515.5	41915.5			
				2102.5	21413.5	2173.5	2217.85	22502.5	22936.5			
5	QPSK	1	0	21.05	21.23	21.11	21.04	21.14	21.14	21.60	0	
5	QPSK	1	15	20.92	20.87	21.04	20.98	20.89	20.89			
5	QPSK	1	24	21.04	21.02	21.00	20.98	20.95	20.95			
5	QPSK	12	0	20.90	21.07	20.99	20.86	20.86	20.86			
5	QPSK	12	7	20.94	20.85	20.95	20.83	20.88	20.88	21.6	0	
5	QPSK	12	13	20.83	20.90	21.01	20.93	20.91	20.91			
5	QPSK	25	0	20.81	20.91	20.83	20.91	20.91	20.91			
5	16QAM	1	0	20.97	20.87	20.95	20.90	20.97	20.97	21.6	0	
5	16QAM	1	12	20.70	20.82	20.90	20.77	20.87	20.87			
5	16QAM	1	24	20.85	20.63	20.72	20.66	20.78	20.78			
5	16QAM	12	0	19.94	19.83	19.96	19.79	19.85	19.85	20.6	1	
5	16QAM	12	7	19.97	19.87	20.09	19.94	19.93	19.93			
5	16QAM	12	13	19.78	19.72	19.84	19.69	19.80	19.80			
5	16QAM	25	0	19.89	20.02	20.03	19.89	20.04	20.04	20.6	1	
5	16QAM	1	0	20.02	20.05	20.10	20.09	20.08	20.08			
5	16QAM	1	12	19.81	19.89	19.99	19.86	19.80	19.80			
5	16QAM	1	24	20.09	19.97	20.09	20.01	20.01	20.01			
5	16QAM	12	0	18.91	18.92	18.92	18.86	18.95	18.95	19.6	2	



Band 38 Ant2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)		
Channel				37650	38050	38150				
Frequency (MHz)				2248	2292	2316				
20	QPSK	1	0	22.72	22.92	22.98	23.5	0		
20	QPSK	1	49	22.71	22.84	22.80				
20	QPSK	1	98	22.68	22.77	22.71				
20	QPSK	50	0	21.82	21.90	21.93				
20	QPSK	50	24	21.84	21.89	21.79	22.9	0.6		
20	QPSK	50	49	21.88	21.88	21.88				
20	QPSK	100	0	21.81	21.95	21.85				
20	16QAM	1	0	21.76	21.85	21.78				
20	16QAM	1	49	21.68	21.74	21.60	22.9	0.6		
20	16QAM	1	99	21.74	21.81	21.73				
20	16QAM	50	0	20.81	20.85	20.80				
20	16QAM	50	24	20.77	20.80	20.70				
20	16QAM	50	50	20.83	20.76	20.71	21.9	1.6		
20	16QAM	100	0	20.80	20.96	20.84				
20	8QAM	1	0	20.95	20.95	20.85				
20	8QAM	1	49	20.78	20.91	20.83				
20	8QAM	1	99	20.74	20.84	20.74	21.9	1.6		
20	8QAM	50	0	19.78	19.85	19.72				
20	8QAM	50	24	19.76	19.81	19.77				
20	8QAM	50	50	19.88	19.70	19.68				
20	8QAM	100	0	19.82	19.96	19.90	20.9	2.6		
20	256QAM	1	0	17.84	17.94	17.82				
20	256QAM	1	49	17.79	17.86	17.85				
20	256QAM	1	99	17.89	17.92	17.84				
20	256QAM	50	0	17.78	17.86	17.73	18.9	4.6		
20	256QAM	50	24	17.80	17.83	17.74				
20	256QAM	50	50	17.82	17.78	17.67				
20	256QAM	100	0	17.85	17.87	17.81				
Channel				37650	38050	38175	Tune-up Int. (dBm)	MPR (dB)		
Frequency (MHz)				2377.5	2395	2417.5				
15	QPSK	1	0	22.60	22.75	22.74	23.5	0		
15	QPSK	1	47	22.68	22.73	22.68				
15	QPSK	1	74	22.63	22.63	22.64				
15	QPSK	36	0	21.79	21.89	21.84				
15	QPSK	36	20	21.75	21.78	21.78	22.9	0.6		
15	QPSK	36	49	21.78	21.87	21.83				
15	QPSK	75	0	21.76	21.82	21.70				
15	16QAM	1	0	21.67	21.73	21.65				
15	16QAM	1	47	21.65	21.67	21.67	22.9	0.6		
15	16QAM	1	74	21.60	21.70	21.70				
15	16QAM	36	0	20.73	20.73	20.67				
15	16QAM	36	20	20.62	20.65	20.58	21.9	1.6		
15	16QAM	36	49	20.54	20.70	20.56				
15	16QAM	75	0	20.81	20.86	20.69				
15	16QAM	1	0	20.78	20.84	20.73				
15	8QAM	1	27	20.68	20.70	20.69	21.9	1.6		
15	8QAM	1	74	20.63	20.73	20.61				
15	8QAM	36	0	19.87	19.71	19.82				
15	8QAM	36	20	18.69	19.74	19.64				
15	8QAM	36	49	19.82	19.82	19.82	20.9	2.6		
15	8QAM	75	0	19.71	19.95	19.75				
15	256QAM	1	0	17.78	17.82	17.78				
15	256QAM	1	47	17.85	17.84	17.85	18.9	4.6		
15	256QAM	1	74	17.81	17.82	17.80				
15	256QAM	36	0	17.65	17.81	17.68				
15	256QAM	36	20	17.75	17.77	17.63				
15	256QAM	36	49	17.48	17.68	17.63	18.9	4.6		
15	256QAM	75	0	17.70	17.86	17.67				
Channel				37650	38050	38200	Tune-up Int. (dBm)	MPR (dB)		
Frequency (MHz)				2515	2595	2615				
10	QPSK	1	0	22.48	22.72	22.73	23.5	0		
10	QPSK	1	25	22.81	22.79	22.73				
10	QPSK	1	49	22.61	22.62	22.65				
10	QPSK	25	0	21.74	21.85	21.81				
10	QPSK	25	12	21.79	21.78	21.69	22.9	0.6		
10	QPSK	25	25	21.62	21.62	21.75				
10	QPSK	50	0	21.73	21.86	21.77				
10	16QAM	1	0	21.78	21.70	21.65				
10	16QAM	1	25	21.68	21.68	21.66	22.9	0.6		
10	16QAM	1	49	21.64	21.67	21.64				
10	16QAM	25	0	20.70	20.77	20.71				
10	16QAM	25	12	20.68	20.74	20.65	21.9	1.6		
10	16QAM	25	25	20.46	20.63	20.63				
10	16QAM	50	0	20.76	20.88	20.79				
10	16QAM	50	25	20.66	20.80	20.62				
10	8QAM	1	25	20.74	20.82	20.68	21.9	1.6		
10	8QAM	25	0	19.74	19.82	19.68				
10	8QAM	25	12	19.64	19.70	19.68				
10	8QAM	25	25	19.65	19.65	19.58				
10	8QAM	50	0	19.76	19.87	19.81	20.9	2.6		
10	256QAM	1	0	17.74	17.83	17.68				
10	256QAM	1	25	17.68	17.74	17.69				
10	256QAM	1	49	17.81	17.85	17.75				
10	256QAM	25	0	17.68	17.74	17.69	18.9	4.6		
10	256QAM	25	12	17.73	17.69	17.64				
10	256QAM	25	25	17.50	17.71	17.63				
10	256QAM	50	0	17.78	17.78	17.78				
Channel				3773.5	3805	3822.5	Tune-up Int. (dBm)	MPR (dB)		
Frequency (MHz)				2248	2292	2316				
5	QPSK	1	0	22.63	22.75	22.74	23.5	0		
5	QPSK	1	12	22.58	22.70	22.68				
5	QPSK	1	24	22.58	22.69	22.58				
5	QPSK	12	0	21.88	21.82	21.88				
5	QPSK	12	7	21.71	21.77	21.75	22.9	0.6		
5	QPSK	12	13	21.79	21.79	21.71				
5	QPSK	25	0	21.74	21.85	21.72				
5	16QAM	1	0	21.72	21.80	21.71				
5	16QAM	1	12	21.62	21.61	21.62	22.9	0.6		
5	16QAM	1	24	21.60	21.74	21.68				
5	16QAM	12	7	20.72	20.67	20.58				
5	16QAM	12	13	20.68	20.67	20.62	21.9	1.6		
5	16QAM	25	0	20.85	20.92	20.74				
5	8QAM	1	0	20.82	20.91	20.80				
5	8QAM	1	12	20.73	20.86	20.77				
5	8QAM	1	24	20.68	20.77	20.68	21.9	1.6		
5	8QAM	12	0	19.88	19.72	19.68				
5	8QAM	12	7	19.72	19.75	19.66				
5	8QAM	12	13	19.68	19.69	19.64				
5	8QAM	25	0	19.71	19.83	19.66	20.9	2.6		
5	256QAM	1	0	17.72	17.87	17.74				
5	256QAM	1	12	17.67	17.84	17.75				
5	256QAM	1	24	17.82	17.79	17.77	18.9	4.6		
5	256QAM	12	0	17.73	17.76	17.65				
5	256QAM	12	7	17.77	17.76	17.69				
5	256QAM	12	13	17.69	17.65	17.58				
5	256QAM	25	0	17.72	17.83	17.68	18.9	4.6		

Band 38 HPUE Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel				37850	38050	38150			
Frequency (MHz)				2488	2496	2496			
20	QPSK	1	0	24.18	24.25	24.22	25.1	0	
20	QPSK	1	49	23.99	24.12	24.04			
20	QPSK	1	99	24.12	24.16	24.12			
20	QPSK	50	0	24.12	24.20	24.08			
20	QPSK	5	0	24.07	24.19	24.03	25.1	0	
20	QPSK	5	49	23.99	24.12	24.04			
20	QPSK	5	99	24.12	24.16	24.12			
20	QPSK	100	0	24.13	24.23	24.17			
20	16QAM	1	0	24.14	24.24	24.13	25.1	0	
20	16QAM	1	49	23.98	24.02	24.02			
20	16QAM	1	99	24.09	24.20	24.20			
20	16QAM	50	0	23.76	23.83	23.84			
20	16QAM	5	0	23.99	24.12	23.71	24.9	0.2	
20	16QAM	5	49	23.96	23.77	23.88			
20	16QAM	5	99	23.66	23.66	23.92			
20	16QAM	100	0	23.62	24.06	23.90			
20	64QAM	1	0	24.15	24.25	24.10	24.9	0.2	
20	64QAM	1	49	23.88	23.68	23.99			
20	64QAM	1	99	23.88	23.68	23.99			
20	64QAM	50	0	22.88	22.82	22.88			
20	64QAM	5	0	22.73	22.85	22.71	23.9	1.2	
20	64QAM	5	49	22.73	22.85	22.71			
20	64QAM	5	99	22.88	22.82	22.88			
20	64QAM	100	0	22.88	22.82	22.88			
20	256QAM	1	0	20.94	21.01	20.99	21.9	3.2	
20	256QAM	1	49	20.99	20.98	20.98			
20	256QAM	1	99	20.75	20.84	20.74			
20	256QAM	50	0	20.76	20.80	20.76			
20	256QAM	5	0	20.76	20.80	20.76	21.9	3.2	
20	256QAM	5	49	20.76	20.80	20.76			
20	256QAM	5	99	20.76	20.80	20.76			
20	256QAM	100	0	20.80	20.87	20.87			
Channel				37825	38025	38175	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				2477.5	2485	2472.5			
10	QPSK	1	0	24.08	24.16	24.12	25.1	0	
10	QPSK	1	37	23.94	24.08	23.99			
10	QPSK	1	74	24.03	24.10	24.03			
10	QPSK	36	0	24.08	24.16	24.08			
10	QPSK	36	20	24.04	24.11	23.93	24.9	0	
10	QPSK	36	56	24.06	24.13	23.94			
10	QPSK	75	0	24.02	24.10	24.07			
10	16QAM	1	0	24.00	24.14	24.07			
10	16QAM	1	37	23.94	24.06	23.97	25.1	0	
10	16QAM	1	74	24.03	24.10	24.03			
10	16QAM	36	0	23.92	23.92	23.79			
10	16QAM	36	20	23.97	23.97	23.87			
10	16QAM	36	56	23.92	23.93	23.87	24.9	0.2	
10	16QAM	36	99	23.60	23.65	23.54			
10	16QAM	75	0	23.60	23.60	23.79			
10	64QAM	1	0	23.94	24.07	23.97			
10	64QAM	1	37	23.77	23.94	23.87	24.9	0.2	
10	64QAM	1	74	23.93	24.06	23.87			
10	64QAM	36	0	22.79	22.79	22.74			
10	64QAM	36	20	22.66	22.77	22.72			
10	64QAM	36	56	22.66	22.77	22.71	23.9	1.2	
10	64QAM	36	99	22.74	22.88	22.89			
10	64QAM	75	0	22.74	22.88	22.89			
10	256QAM	1	37	20.77	20.86	20.79			
10	256QAM	1	74	20.64	20.76	20.63	21.9	3.2	
10	256QAM	1	99	20.64	20.76	20.63			
10	256QAM	36	0	20.58	20.71	20.68			
10	256QAM	36	20	20.58	20.71	20.68			
10	256QAM	36	56	20.59	20.78	20.68	21.9	3.2	
10	256QAM	36	99	20.59	20.78	20.68			
10	256QAM	75	0	20.60	20.87	20.67			
10	256QAM	100	0	20.60	20.87	20.67			
Channel				37800	38000	38200	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				2497	2494	2494			
10	QPSK	1	0	24.07	24.14 <td>24.14</td> <td rowspan="4">25.1</td> <td rowspan="4">0</td> <td rowspan="4"></td>	24.14	25.1	0	
10	QPSK	1	25	23.91	24.08	23.98			
10	QPSK	1	49	24.05	24.06	24.05			
10	QPSK	25	0	23.99	24.13	23.95			
10	QPSK	25	12	24.00	24.06	24.04	25.1	0	
10	QPSK	25	37	24.01	24.05	23.93			
10	QPSK	50	0	24.05	24.14	24.03			
10	16QAM	1	0	23.99	24.11	24.12			
10	16QAM	1	25	24.01	24.18	24.18	25.1	0	
10	16QAM	1	49	23.96	24.10	24.10			
10	16QAM	25	0	23.81	23.73	23.81			
10	16QAM	25	12	23.99	23.73	23.86			
10	16QAM	25	37	23.88	23.63	23.54	24.9	0.2	
10	16QAM	25	49	23.93	23.67	23.87			
10	64QAM	1	0	24.00	24.01	23.89			
10	64QAM	1	25	23.74	23.68	23.73			
10	64QAM	1	49	23.99	23.73	23.84	24.9	0.2	
10	64QAM	25	0	22.76	22.80	22.78			
10	64QAM	25	12	22.62	22.81	22.73			
10	64QAM	25	37	22.66	22.76	22.76			
10	64QAM	50	0	22.76	22.83	22.82	23.9	1.2	
10	64QAM	50	12	22.76	22.83	22.82			
10	256QAM	1	25	20.80	20.79	20.79			
10	256QAM	1	49	20.83	20.81	20.75			
10	256QAM	1	25	20.73	20.79	20.64	21.9	3.2	
10	256QAM	1	49	20.71	20.73	20.64			
10	256QAM	25	12	20.66	20.70	20.68			
10	256QAM	25	37	20.66	20.70	20.68			
10	256QAM	25	25	20.68	20.72	20.70	21.9	3.2	
10	256QAM	25	49	20.69	20.72	20.68			
10	256QAM	50	0	20.82	20.82	20.82			
10	256QAM	100	0	20.82	20.82	20.82			
Channel				37775	38025	38225	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				2494	2494	2494			
5	QPSK	1	0	24.12	24.18	24.14	25.1	0	
5	QPSK	1	12	23.88	24.08	23.87			
5	QPSK	1	24	24.04	24.06	24.07			
5	QPSK	12	0	24.05	24.15	23.99			
5	QPSK	12	7	24.04	24.06	23.99	25.1	0	
5	QPSK	12	19	24.04	24.06	23.99			
5	QPSK	25	0	24.05	24.15	24.09			
5	16QAM	1	0	24.05	24.12	24.09			
5	16QAM	1	12	24.01	24.12	24.04	25.1	0	
5	16QAM	1	24	24.01	24.12	24.04			
5	16QAM	1	24	23.99	24.06	24.01			
5	16QAM	12	0	23.82	23.82	23.86			
5	16QAM	12	7	23.69	23.80	23.65	24.9	0.2	
5	16QAM	12	19	23.80	23.83	23.89			
5	64QAM	1	0	24.00	24.00	23.78			
5	64QAM	1	12	23.79	23.89	23.84			
5	64QAM	1	24	23.71	23.81	23.81	24.9	0.2	
5	64QAM	12	0	22.82	22.81	22.82			
5	64QAM	12	7	22.66	22.82	22.69			
5	64QAM	12	19	22.74	22.76	22.68			
5	64QAM	25	0	22.84	22.88	22.84	23.9	1.2	
5	64QAM	25	12	22.84	22.88	22.84			
5	256QAM	1	24	20.73	20.86	20.73			
5	256QAM	1	12	20.80	20.88	20.80			
5	256QAM	1	24	20.67	20.72	20.67	21.9	3.2	
5	256QAM	1	12	20.67	20.72	20.67			
5	256QAM	12	7	20.59	20.67	20.53			
5	256QAM	12	19	20.62	20.62	20.64			
5	256QAM	12	24	20.64	20.68	20.67	21.9	3.2	
5	256QAM	12	7	20.59	20.67	20.53			
5	256QAM	12	19	20.62	20.62	20.64			
5	256QAM	12	24	20.64	20.68	20.67			

Band 41 Ant2													
RW [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.	Power Low Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel													
39750 40185 40620 41066 41490													
Frequency (MHz)													
20	QPSK	1	5	22.71	22.85	22.84	22.79	22.75	22.72			23.5	0
20	QPSK	1	40	22.85	22.73	22.79	22.75	22.72					
20	QPSK	50	5	21.79	21.90	21.94	21.85	21.80					
20	QPSK	50	24	21.79	21.72	21.85	21.78	21.75				22.9	0.6
20	QPSK	50	40	21.80	21.52	21.81	21.78	21.75					
20	QPSK	100	0	21.82	21.86	21.90	21.79	21.84					
20	16QAM	1	5	21.81	21.83	21.88	21.81	21.79				22.9	0.6
20	16QAM	1	40	21.71	21.72	21.81	21.69	21.68					
20	16QAM	1	80	21.86	21.62	21.75	21.69	21.63					
20	16QAM	50	5	20.79	20.89	20.94	20.89	20.82				21.9	1.6
20	16QAM	50	24	20.77	20.68	20.83	20.76	20.71					
20	16QAM	50	50	20.77	20.60	20.68	20.63	20.64					
20	16QAM	100	0	20.67	20.79	20.85	20.84	20.78					
20	16QAM	1	5	20.52	20.81	20.93	20.75	20.52					
20	16QAM	1	40	20.79	20.80	20.91	20.88	20.77				21.9	1.6
20	16QAM	1	80	20.75	20.93	20.94	20.72	20.71					
20	16QAM	50	5	19.73	19.70	19.84	19.70	19.78					
20	16QAM	50	24	19.86	19.73	19.77	19.85	19.74				20.9	2.6
20	16QAM	50	50	19.70	19.71	19.79	19.74	19.70					
20	16QAM	100	0	19.79	19.79	19.92	19.81	19.79					
20	256QAM	1	0	17.77	17.84	17.90	17.82	17.84					
20	256QAM	1	40	17.73	17.71	17.83	17.72	17.75				18.9	4.6
20	256QAM	1	80	17.66	17.70	17.78	17.67	17.66					
20	256QAM	50	5	17.63	17.68	17.86	17.60	17.78					
20	256QAM	50	24	17.69	17.70	17.74	17.66	17.61				18.9	4.6
20	256QAM	50	50	17.68	17.68	17.80	17.73	17.71					
20	256QAM	100	0	17.68	17.68	17.80	17.78	17.80					
Channel													
39750 40173 40620 41066 41615													
Frequency (MHz)													
15	QPSK	1	5	22.61	22.72	22.86	22.71	22.82				24	0
15	QPSK	1	37	22.62	22.68	22.66	22.83	22.67					
15	QPSK	1	74	22.71	22.67	22.72	22.84	22.74					
15	QPSK	1	80	21.72	21.87	21.86	21.71	21.75					
15	QPSK	36	20	21.69	21.57	21.78	21.64	21.70				22.9	0.6
15	QPSK	36	40	21.68	21.73	21.86	21.67	21.78					
15	QPSK	75	5	21.67	21.80	21.76	21.67	21.77					
15	16QAM	1	0	21.71	21.76	21.82	21.75	21.86				22.9	0.6
15	16QAM	1	40	21.61	21.60	21.80	21.64	21.67					
15	16QAM	1	74	21.55	21.66	21.87	21.84	21.57					
15	16QAM	36	0	20.72	20.72	20.90	20.74	20.77				21.9	1.6
15	16QAM	36	39	20.64	20.54	20.82	20.85	20.75					
15	16QAM	36	39	20.68	20.69	20.75	20.73	20.78					
15	16QAM	75	0	20.78	20.82	20.80	20.76	20.84				21.9	1.6
15	16QAM	1	0	20.71	20.72	20.89	20.75	20.88					
15	16QAM	1	37	20.76	20.76	20.83	20.78	20.87					
15	16QAM	1	74	20.75	20.76	20.77	20.87	20.87					
15	16QAM	36	39	19.84	19.86	19.77	19.85	19.74				20.9	2.6
15	16QAM	36	20	19.54	19.69	19.71	19.59	19.52					
15	16QAM	75	5	19.75	19.74	19.85	19.76	19.85					
15	256QAM	1	0	17.64	17.73	17.75	17.78	17.71				18.9	4.6
15	256QAM	1	40	17.63	17.68	17.80	17.60	17.62					
15	256QAM	1	74	17.60	17.60	17.72	17.63	17.59					
15	256QAM	36	0	17.73	17.68	17.73	17.75	17.63				18.9	4.6
15	256QAM	36	39	17.63	17.61	17.68	17.60	17.62					
15	256QAM	36	39	17.67	17.51	17.66	17.61	17.61					
15	256QAM	75	0	17.66	17.60	17.86	17.72	17.84					
Channel													
39750 40160 40620 41066 41540													
Frequency (MHz)													
10	QPSK	1	0	22.67	22.76	22.89	22.80	22.82				23.50	0
10	QPSK	1	25	22.59	22.81	22.72	22.80	22.80					
10	QPSK	1	40	22.70	22.63	22.78	22.82	22.74					
10	QPSK	25	0	21.75	21.79	21.84	21.75	21.78					
10	QPSK	25	12	21.74	21.68	21.73	21.71	21.72				22.9	0.6
10	QPSK	25	25	21.73	21.76	21.81	21.74	21.75					
10	QPSK	50	5	21.70	21.74	21.79	21.75	21.74					
10	16QAM	1	0	21.67	21.74	21.77	21.68	21.72				22.9	0.6
10	16QAM	1	25	21.68	21.69	21.76	21.68	21.68					
10	16QAM	1	80	21.61	21.57	21.63	21.63	21.60					
10	16QAM	25	0	20.70	20.70	20.82	20.85	20.74				21.9	1.6
10	16QAM	25	19	20.69	20.56	20.75	20.68	20.58					
10	16QAM	25	25	20.75	20.73	20.81	20.80	20.75					
10	16QAM	50	0	20.76	20.65	20.80	20.81	20.71					
10	16QAM	50	19	20.69	20.56	20.75	20.68	20.58				21.9	1.6
10	16QAM	50	25	20.75	20.73	20.81	20.80	20.75					
10	16QAM	1	25	20.73	20.74	20.78	20.77	20.69				21.9	1.6
10	16QAM	1	40	20.70	20.68	20.70	20.67	20.57					
10	16QAM	25	0	19.69	19.69	19.78	19.63	19.63				20.9	2.6
10	16QAM	25	12	19.61	19.68	19.64	19.53	19.59					
10	16QAM	25	25	19.56	19.57	19.75	19.63	19.66					
10	16QAM	50	0	19.76	19.64	19.64	19.69	19.67					
10	256QAM	1	0	17.73	17.71	17.77	17.77	17.73				18.9	4.6
10	256QAM	1	25	17.66	17.61	17.70	17.60	17.71					
10	256QAM	1	40	17.68	17.64	17.69	17.59	17.58					
10	256QAM	25	0	17.73	17.64	17.83	17.77	17.63				18.9	4.6
10	256QAM	25	0	17.66	17.66	17.63	17.53	17.63					
10	256QAM	25	25	17.61	17.64	17.73	17.61	17.63					
10	256QAM	50	0	17.61	17.75	17.81	17.75	17.79					
Channel													
39750 40154 40620 41066 41665													
Frequency (MHz)													
5	QPSK	1	0	22.65	22.75	22.84	22.84	22.78				23.50	0
5	QPSK	1	15	22.61	22.63	22.67	22.87	22.67					
5	QPSK	1	24	22.63	22.58	22.78	22.58	22.66					
5	QPSK	12	0	21.66	21.63	21.80	21.73	21.76					
5	QPSK	12	7	21.71	21.68	21.79	21.69	21.64				22.9	0.6
5	QPSK	12	13	21.66	21.79	21.80	21.73	21.79					
5	QPSK	25	0	21.70	21.72	21.79	21.75	21.74					
5	16QAM	1	0	21.69	21.79	21.75	21.78	21.68				22.9	0.6
5	16QAM	1	12	21.61	21.68	21.73	21.62	21.61					
5	16QAM	1	24	21.66	21.46	21.62	21.66	21.57					
5	16QAM	12	7	20.64	20.60	20.70	20.69	20.63				21.9	1.6
5	16QAM	12	13	20.70	20.70	20.76	20.72	20.70					
5	16QAM	25	0	20.75	20.67	20.85	20.64	20.71				21.9	1.6
5	16QAM	1	0	20.79	20.73	20.85	20.64	20.71					
5	16QAM	1	12	20.71	20.74	20.87	20.79	20.66					
5	16QAM	1	24	20.71	20.67	20.80	20.72	20.66					
5	16QAM	12	0	19.63	19.65	19.78	19.60	19.71					
5	16QAM	12	7	19.63	19.67	19.69	19.55	19.56					
5	16QAM	12	13	19.60	19.63	19.63	19.56	19.56				20.9	2.6
5	16QAM	25	0	19.74	19.76	19.83	19.69	19.69					
5	256QAM	1	0	17.68	17.72	17.84	17.74	17.70				18.9	4.6
5	256QAM	1	12	17.62	17.56	17.69	17.68	17.67					
5	256QAM	1	24	17.67	17.60	17.73	17.62	17.58					
5	256QAM	12	0	17.78	17.79	17.89	17.78	17.71				18.9	4.6
5	256QAM	12	7	17.59	17.56	17.70	17.62	17.61					
5	256QAM	12	13	17.67	17.57	17.68	17.61	17.59					



Band 42 FCC Part27Q Ant3												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med. Ch / Freq.	Power High Ch / Freq.	Turn-up Int. (dBm)	MPR (dB)				
Channel												
Frequency (MHz)				42180	42190	42195						
20	QPSK	1	0	20.22	20.31	20.45	21.5	0				
20	QPSK	1	49	20.28	20.37	20.33						
20	QPSK	1	99	20.35	20.37	20.33						
20	QPSK	50	0	20.34	20.45	20.34						
20	QPSK	50	24	20.27	20.34	20.29						
20	QPSK	100	0	20.31	20.38	20.25	20.5	1				
20	QPSK	100	0	20.39	20.48	20.42						
20	16QAM	1	0	20.31	20.48	20.33						
20	16QAM	1	49	20.31	20.44	20.32						
20	16QAM	1	99	20.44	20.48	20.43						
20	16QAM	50	0	19.30	19.38	19.26	19.5	2				
20	16QAM	50	24	19.32	19.42	19.28						
20	16QAM	50	50	19.28	19.34	19.25						
20	16QAM	100	0	19.35	19.38	19.27						
20	16QAM	100	0	19.35	19.45	19.42						
20	64QAM	1	49	19.25	19.38	19.25	19.5	2				
20	64QAM	1	99	19.34	19.45	19.35						
20	64QAM	50	0	18.17	18.22	18.14						
20	64QAM	50	24	18.08	18.11	18.03						
20	64QAM	50	50	18.15	18.21	18.08						
20	64QAM	100	0	18.09	18.20	18.12	18.5	3				
20	256QAM	1	0	18.15	18.21	18.14						
20	256QAM	1	49	18.21	18.27	18.14						
20	256QAM	1	99	18.97	18.10	18.00						
20	256QAM	50	0	18.23	18.28	18.13						
20	256QAM	50	24	18.14	18.23	18.08	18.5	5				
20	256QAM	50	50	18.02	18.14	18.03						
20	256QAM	100	0	18.18	18.26	18.15						
Channel												
Frequency (MHz)				42190	42195	42199				Turn-up Int. (dBm)	MPR (dB)	
15	QPSK	1	0	20.26	20.42	20.33				21.5	0	
15	QPSK	1	37	20.16	20.24	20.28						
15	QPSK	1	74	20.20	20.30	20.10						
15	QPSK	36	0	20.25	20.42	20.20						
15	QPSK	36	20	20.16	20.28	20.20						
15	QPSK	75	0	20.32	20.34	20.28	20.5	1				
15	16QAM	1	0	20.19	20.39	20.26						
15	16QAM	1	37	20.30	20.30	20.21						
15	16QAM	1	74	20.31	20.39	20.30						
15	16QAM	36	0	19.22	19.34	19.20						
15	16QAM	36	20	19.22	19.38	19.30	19.5	2				
15	16QAM	36	39	19.13	19.23	19.12						
15	16QAM	75	0	19.30	19.27	19.32						
15	64QAM	1	0	19.29	19.32	19.30						
15	64QAM	1	37	19.23	19.29	19.12						
15	64QAM	1	74	19.29	19.38	19.23	19.5	2				
15	64QAM	36	0	18.13	18.14	18.09						
15	64QAM	36	20	17.95	17.98	17.92						
15	64QAM	75	0	18.00	18.13	18.05						
15	256QAM	1	0	18.05	18.16	18.06						
15	256QAM	1	37	18.15	18.15	18.08	18.5	5				
15	256QAM	1	74	18.08	18.07	18.08						
15	256QAM	36	0	18.15	18.15	18.04						
15	256QAM	36	20	18.00	18.10	18.00						
15	256QAM	36	39	18.08	18.06	18.07						
15	256QAM	75	0	18.14	18.15	18.06	18.5					
Channel												
Frequency (MHz)				42199	42199	42199				Turn-up Int. (dBm)	MPR (dB)	
10	QPSK	1	0	20.21	20.43	20.33				21.5	0	
10	QPSK	1	25	20.15	20.32	20.29						
10	QPSK	1	49	20.18	20.22	20.07						
10	QPSK	25	0	20.29	20.32	20.25						
10	QPSK	25	12	20.23	20.30	20.23						
10	QPSK	50	0	20.31	20.35	20.28	20.5	1				
10	QPSK	50	0	20.31	20.35	20.28						
10	16QAM	1	0	20.23	20.42	20.19						
10	16QAM	1	25	20.22	20.29	20.18						
10	16QAM	1	49	20.33	20.37	20.33						
10	16QAM	25	0	19.23	19.35	19.15	19.5	2				
10	16QAM	25	12	19.27	19.38	19.18						
10	16QAM	25	25	19.15	19.30	19.15						
10	16QAM	50	0	19.31	19.33	19.22						
10	64QAM	1	0	19.24	19.38	19.27						
10	64QAM	1	25	19.20	19.31	19.20	19.5	2				
10	64QAM	1	49	19.22	19.29	19.16						
10	64QAM	25	0	18.03	18.17	18.00						
10	64QAM	25	12	17.96	18.06	17.94						
10	64QAM	25	25	18.08	18.13	17.99						
10	64QAM	50	0	17.95	18.08	17.97	18.5	3				
10	256QAM	1	0	18.02	18.11	18.00						
10	256QAM	1	25	18.10	18.21	18.01						
10	256QAM	1	49	18.88	18.08	18.05						
10	256QAM	25	0	18.21	18.23	18.07						
10	256QAM	25	12	18.00	18.06	18.02	18.5	5				
10	256QAM	25	25	18.09	18.00	18.02						
10	256QAM	50	0	18.03	18.17	18.07						
Channel												
Frequency (MHz)				42200	42199	42199				Turn-up Int. (dBm)	MPR (dB)	
5	QPSK	1	0	20.22	20.41	20.30				21.5	0	
5	QPSK	1	12	20.20	20.23	20.27						
5	QPSK	1	24	20.19	20.29	20.09						
5	QPSK	12	0	20.07	20.08	20.19						
5	QPSK	12	7	20.22	20.36	20.15						
5	QPSK	12	13	20.20	20.30	20.18	20.5	1				
5	QPSK	25	0	20.33	20.37	20.29						
5	16QAM	1	0	20.17	20.38	20.20						
5	16QAM	1	12	20.19	20.39	20.21						
5	16QAM	1	24	20.30	20.34	20.28	20.5	1				
5	16QAM	12	0	19.18	19.26	19.21						
5	16QAM	12	7	19.23	19.37	19.18						
5	16QAM	12	13	19.15	19.27	19.09						
5	16QAM	25	0	19.30	19.33	19.32						
5	64QAM	1	0	19.29	19.37	19.36	19.5	2				
5	64QAM	1	12	19.17	19.32	19.13						
5	64QAM	1	24	19.26	19.27	19.19						
5	64QAM	12	0	18.04	18.11	18.11						
5	64QAM	12	7	17.95	18.00	17.95						
5	64QAM	12	13	18.09	18.08	18.01	18.5	3				
5	64QAM	25	0	18.06	18.16	18.03						
5	256QAM	1	0	18.13	18.07	18.02						
5	256QAM	1	12	18.11	18.23	18.06						
5	256QAM	1	24	18.81	18.01	18.07						
5	256QAM	12	0	18.12	18.19	18.08	18.5	5				
5	256QAM	12	7	18.02	18.13	18.02						
5	256QAM	12	13	18.02	18.08	18.00						
5	256QAM	25	0	18.04	18.02	18.10						
5	256QAM	25	0	18.04	18.02	18.10						

Band 42 FCC Part96 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med. Ch / Freq.	Power High Ch / Freq.	Turn-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				43190	43190	43190			
20	QPSK	1	0	20.14	20.40	20.32			
20	QPSK	1	49	20.22	20.28	20.21	21.5	0	
20	QPSK	50	0	20.11	20.22	20.10			
20	QPSK	50	0	20.20	20.20	20.20			
20	QPSK	50	24	20.21	20.27	20.23	20.5	1	
20	QPSK	100	0	20.21	20.21	20.21			
20	QPSK	100	0	20.29	20.34	20.24			
20	16QAM	1	0	20.25	20.29	20.26			
20	16QAM	1	49	20.28	20.32	20.22	20.5	1	
20	16QAM	1	99	20.38	20.33	20.28			
20	16QAM	50	0	19.19	19.28	19.14			
20	16QAM	50	0	19.28	19.28	19.17			
20	16QAM	50	19	19.17	19.21	19.18	19.5	2	
20	16QAM	100	0	19.30	19.32	19.24			
20	16QAM	100	0	19.28	19.28	19.27			
20	64QAM	1	49	19.14	19.22	19.18	19.5	2	
20	64QAM	1	99	19.28	19.28	19.28			
20	64QAM	50	0	18.06	18.11	18.02			
20	64QAM	50	24	18.00	18.03	17.94	18.5	3	
20	64QAM	100	0	17.95	18.06	17.98			
20	256QAM	1	0	16.08	16.08	16.08			
20	256QAM	1	0	16.14	16.12	16.09	16.5	5	
20	256QAM	1	50	15.87	16.04	15.90			
20	256QAM	1	99	15.94	15.94	15.94			
20	256QAM	50	24	15.00	15.15	15.05	16.5	5	
20	256QAM	50	50	15.83	16.07	15.93			
20	256QAM	100	0	16.10	16.10	16.10			
Channel									
Frequency (MHz)				43165	43165	43165	Turn-up Int. (dBm)	MPR (dB)	
15	QPSK	1	0	20.11	20.24	20.20			
15	QPSK	1	37	20.05	20.19	20.18	21.5	0	
15	QPSK	1	74	20.13	20.24	20.19			
15	QPSK	36	0	20.12	20.12	20.12			
15	QPSK	36	20	20.08	20.15	20.05	20.5	1	
15	QPSK	36	36	20.08	20.13	20.13			
15	QPSK	75	0	20.23	20.28	20.20			
15	16QAM	1	0	20.11	20.23	20.21	20.5	1	
15	16QAM	1	37	20.05	20.19	20.18			
15	16QAM	1	74	20.19	20.26	20.19			
15	16QAM	36	0	19.14	19.26	19.13			
15	16QAM	36	0	19.15	19.28	19.12	19.5	2	
15	16QAM	36	30	19.07	19.10	19.01			
15	16QAM	75	0	19.21	19.25	19.15			
15	64QAM	1	37	19.10	19.14	19.03	19.5	2	
15	64QAM	1	74	19.23	19.24	19.13			
15	64QAM	36	0	18.08	18.01	17.96			
15	64QAM	36	20	17.82	17.80	17.77			
15	64QAM	75	0	17.93	17.98	17.84			
15	256QAM	1	37	16.05	16.08	15.99	16.5	5	
15	256QAM	1	74	15.78	15.86	15.69			
15	256QAM	1	111	15.76	15.86	15.69			
15	256QAM	36	20	16.01	16.14	15.95	16.5	5	
15	256QAM	36	50	15.87	16.00	15.81			
15	256QAM	75	0	16.07	16.07	16.02			
Channel									
Frequency (MHz)				43140	43140	43140	Turn-up Int. (dBm)	MPR (dB)	
5	QPSK	1	0	20.12	20.31	20.27			
5	QPSK	1	25	20.09	20.24	20.14	21.5	0	
5	QPSK	1	49	20.16	20.21	20.16			
5	QPSK	25	0	20.14	20.19	20.17			
5	QPSK	25	12	20.11	20.07	20.09	20.5	1	
5	QPSK	25	12	20.13	20.07	20.04			
5	16QAM	1	0	20.19	20.28	20.17			
5	16QAM	1	0	20.17	20.30	20.11			
5	16QAM	1	25	20.19	20.30	20.19	20.5	1	
5	16QAM	1	49	20.26	20.26	20.26			
5	16QAM	25	0	19.13	19.26	19.07			
5	16QAM	25	12	19.21	19.19	19.08	19.5	2	
5	16QAM	25	25	19.10	19.17	19.05			
5	64QAM	1	0	19.23	19.23	19.18			
5	64QAM	1	0	19.11	19.19	19.10			
5	64QAM	1	25	19.11	19.18	19.12	19.5	2	
5	64QAM	1	49	19.09	19.11	19.01			
5	64QAM	25	0	17.89	18.10	17.80			
5	64QAM	25	12	17.89	17.97	17.84	18.5	3	
5	64QAM	25	49	18.01	18.02	17.86			
5	64QAM	50	0	17.80	18.02	17.84			
5	256QAM	1	25	15.96	16.06	15.86	16.5	5	
5	256QAM	1	25	15.99	16.08	15.95			
5	256QAM	1	49	15.74	15.87	15.83			
5	256QAM	25	0	16.02	16.02	15.98	16.5	5	
5	256QAM	25	12	16.99	16.98	16.91			
5	256QAM	25	25	15.81	15.87	15.81			
5	256QAM	50	0	16.09	16.05	16.05	16.5	5	
Channel									
Frequency (MHz)				43115	43115	43115	Turn-up Int. (dBm)	MPR (dB)	
5	QPSK	1	0	20.13	20.31	20.26			
5	QPSK	1	12	20.06	20.15	20.17	21.5	0	
5	QPSK	1	24	20.14	20.20	20.14			
5	QPSK	12	0	20.16	20.29	20.12			
5	QPSK	12	0	20.13	20.18	20.01	20.5	1	
5	QPSK	12	12	20.07	20.11	20.08			
5	QPSK	25	0	20.25	20.28	20.19			
5	16QAM	1	0	20.12	20.26	20.11			
5	16QAM	1	12	20.11	20.11	20.11	20.5	1	
5	16QAM	1	24	20.31	20.19	20.20			
5	16QAM	12	0	19.07	19.13	19.13			
5	16QAM	12	7	19.15	19.18	19.10	19.5	2	
5	16QAM	12	13	19.05	19.20	19.00			
5	16QAM	12	19	19.21	19.26	19.22			
5	64QAM	1	0	19.17	19.26	19.28			
5	64QAM	1	12	19.05	19.25	19.04	19.5	2	
5	64QAM	1	24	19.12	19.04	19.01			
5	64QAM	12	0	17.92	18.01	17.98			
5	64QAM	12	7	17.87	17.97	17.75			
5	64QAM	12	13	18.04	18.01	17.94			
5	64QAM	25	0	17.96	18.02	17.94			
5	256QAM	1	25	15.96	16.02	15.93	16.5	5	
5	256QAM	1	25	15.96	16.06	15.93			
5	256QAM	1	24	15.68	15.86	15.75			
5	256QAM	12	0	16.00	16.00	15.98	16.5	5	
5	256QAM	12	7	15.93	16.02	15.97			
5	256QAM	12	13	15.82	16.00	15.78			
5	256QAM	25	0	15.98	16.00	15.91	16.5	5	



Band 43 for FCC use Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel				43690	44090	44490				
Frequency (MHz)				43690	44090	44490				
20	QPSK	1	0	20.37	20.47	20.52	21.5	0		
20	QPSK	1	49	20.45	20.40	20.38				
20	QPSK	1	99	20.35	20.41	20.39				
20	QPSK	50	0	20.32	20.40	20.50	21.5	0		
20	QPSK	50	24	20.36	20.37	20.35				
20	QPSK	50	50	20.34	20.37	20.35				
20	QPSK	100	0	20.28	20.30	20.21	21.5	0		
20	16QAM	1	0	20.29	20.41	20.30				
20	16QAM	1	49	20.36	20.32	20.31				
20	16QAM	1	99	20.24	20.31	20.38	21.5	0		
20	16QAM	50	0	20.29	20.36	20.18				
20	16QAM	50	24	20.24	20.24	20.32				
20	16QAM	50	50	20.34	20.29	20.31	21.5	0		
20	16QAM	100	0	20.35	20.45	20.23				
20	64QAM	1	0	20.33	20.32	20.34				
20	64QAM	1	49	20.91	20.29	20.34	21.5	0		
20	64QAM	1	99	20.34	20.38	20.33				
20	64QAM	50	0	19.93	19.92	19.97				
20	64QAM	50	24	20.00	19.99	19.91	21	0.5		
20	64QAM	50	50	19.84	19.98	19.94				
20	64QAM	100	0	19.94	19.96	19.84				
20	256QAM	1	0	17.87	17.77	17.76	19	2.5		
20	256QAM	1	49	17.87	17.87	17.89				
20	256QAM	1	99	17.71	17.82	17.75				
20	256QAM	50	0	17.73	17.66	17.61	19	2.5		
20	256QAM	50	24	17.64	17.66	17.62				
20	256QAM	50	50	17.70	17.88	17.80				
20	256QAM	100	0	17.63	17.81	17.82				
Channel				43690	44090	44515	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				43690	44090	44515				
15	QPSK	1	0	20.28	20.38	20.23	21.5	0		
15	QPSK	1	37	20.41	20.40	20.27				
15	QPSK	1	74	20.34	20.30	20.33				
15	QPSK	36	0	20.26	20.40	20.27	21.5	0		
15	QPSK	36	20	20.28	20.36	20.26				
15	QPSK	36	36	20.26	20.26	20.20				
15	16QAM	1	0	20.24	20.40	20.26	21.5	0		
15	16QAM	1	37	20.29	20.36	20.23				
15	16QAM	1	74	20.21	20.29	20.23				
15	16QAM	36	0	20.20	20.34	20.15	21.5	0		
15	16QAM	36	20	20.15	20.12	20.20				
15	16QAM	36	36	20.22	20.14	20.25				
15	16QAM	75	0	20.29	20.35	20.14	21.5	0		
15	64QAM	1	0	20.31	20.30	20.30				
15	64QAM	1	37	20.21	20.28	20.23				
15	64QAM	1	74	20.16	20.27	20.19	21	0.5		
15	64QAM	36	0	19.93	19.91	19.93				
15	64QAM	36	20	20.01	19.79	19.83				
15	64QAM	36	36	19.83	19.83	19.83	19	2.5		
15	64QAM	75	0	19.92	19.94	19.72				
15	256QAM	1	0	17.86	17.76	17.76				
15	256QAM	1	37	17.77	17.76	17.76	19	2.5		
15	256QAM	1	74	17.71	17.69	17.74				
15	256QAM	36	0	17.70	17.78	17.63				
15	256QAM	36	20	17.64	17.66	17.77	19	2.5		
15	256QAM	36	36	17.65	17.77	17.78				
15	256QAM	75	0	17.66	17.67	17.46				
15	256QAM	100	0	17.63	17.81	17.82				
Channel				43690	44090	44515	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				43690	44090	44515				
10	QPSK	1	0	20.24	20.39	20.20	21.5	0		
10	QPSK	1	25	20.38	20.33	20.30				
10	QPSK	1	49	20.26	20.29	20.38				
10	QPSK	25	0	20.34	20.27	20.28	21.5	0		
10	QPSK	25	12	20.33	20.31	20.29				
10	QPSK	25	25	20.35	20.38	20.30				
10	16QAM	1	0	20.20	20.34	20.20	21.5	0		
10	16QAM	1	0	20.16	20.33	20.17				
10	16QAM	1	25	20.36	20.26	20.19				
10	16QAM	1	49	20.19	20.18	20.34	21.5	0		
10	16QAM	25	0	20.28	20.26	20.15				
10	16QAM	25	12	20.17	20.21	20.19				
10	16QAM	25	25	20.30	20.23	20.25	21.5	0		
10	16QAM	50	0	20.35	20.40	20.19				
10	64QAM	1	0	20.24	20.23	20.21				
10	64QAM	1	25	20.24	20.29	20.12	21.5	0		
10	64QAM	1	49	20.25	20.26	20.15				
10	64QAM	25	0	19.80	19.81	19.87				
10	64QAM	25	12	19.91	19.86	19.83	21	0.5		
10	64QAM	25	25	19.76	19.85	19.86				
10	64QAM	50	0	19.84	19.88	19.75				
10	256QAM	1	0	17.57	17.71	17.66	19	2.5		
10	256QAM	1	25	17.78	17.66	17.66				
10	256QAM	1	49	17.70	17.76	17.70				
10	256QAM	25	0	17.62	17.75	17.61	19	2.5		
10	256QAM	25	12	17.67	17.66	17.76				
10	256QAM	25	25	17.62	17.70	17.68				
10	256QAM	50	0	17.62	17.69	17.47				
Channel				43690.5	44090.5	44560	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				43690.5	44090.5	44560				
5	QPSK	1	0	20.28	20.43	20.25	21.5	0		
5	QPSK	1	12	20.36	20.33	20.32				
5	QPSK	1	24	20.26	20.36	20.38				
5	QPSK	12	0	20.29	20.36	20.25	21.5	0		
5	QPSK	12	7	20.29	20.35	20.23				
5	QPSK	12	13	20.25	20.38	20.21				
5	QPSK	25	0	20.16	20.39	20.09	21.5	0		
5	16QAM	1	0	20.23	20.34	20.20				
5	16QAM	1	12	20.36	20.24	20.18				
5	16QAM	1	24	20.23	20.23	20.33	21.5	0		
5	16QAM	12	0	20.21	20.29	20.07				
5	16QAM	12	7	20.24	20.12	20.23				
5	16QAM	12	13	20.24	20.22	20.31	21.5	0		
5	16QAM	25	0	20.39	20.32	20.24				
5	64QAM	1	0	20.29	20.32	20.22				
5	64QAM	1	12	20.21	20.23	20.12	21.5	0		
5	64QAM	1	24	20.18	20.22	20.07				
5	64QAM	12	0	19.88	19.91	19.86				
5	64QAM	12	7	19.94	19.93	19.82	21	0.5		
5	64QAM	12	13	19.72	19.84	19.88				
5	64QAM	25	0	19.82	19.93	19.72				
5	256QAM	1	0	17.68	17.78	17.71	19	2.5		
5	256QAM	1	12	17.87	17.74	17.82				
5	256QAM	1	24	17.63	17.81	17.76				
5	256QAM	12	0	17.62	17.75	17.60	19	2.5		
5	256QAM	12	7	17.67	17.66	17.76				
5	256QAM	12	7	17.66	17.84	17.74				
5	256QAM	12	13	17.62	17.86	17.74				
5	256QAM	25	0	17.70	17.86	17.71	19	2.5		
5	256QAM	25	12	17.62	17.69	17.81				
5	256QAM	25	25	17.62	17.79	17.75				

Band 41 Ant4															
RW [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)															
20	QPSK	1	0	18.92	19.13	19.25	19.25	19.25	19.25	20	0				
20	QPSK	1	40	18.89	19.06	19.13	19.08	19.07	19.07						
20	QPSK	1	80	18.87	18.95	19.01	18.96	18.93	18.93						
20	QPSK	50	0	17.97	18.30	18.38	18.02	18.10	18.10						
20	QPSK	50	24	17.96	17.97	18.06	17.99	17.94	17.94						
20	QPSK	100	0	17.96	18.10	18.18	18.12	18.06	18.06	19	1				
20	QPSK	100	0	17.84	18.01	18.09	17.94	17.94	17.94						
20	16QAM	1	0	17.94	18.08	18.18	18.12	18.06	18.06						
20	16QAM	1	40	17.82	17.95	18.03	17.98	17.94	17.94						
20	16QAM	1	80	17.82	17.96	18.10	17.98	18.03	18.03						
20	16QAM	50	0	16.95	16.95	17.07	16.96	16.98	16.98	18	2				
20	16QAM	50	24	16.74	16.84	16.95	16.84	16.89	16.89						
20	16QAM	50	50	16.70	16.76	16.89	16.78	16.80	16.80						
20	16QAM	100	0	16.71	17.07	17.12	17.07	17.02	17.02						
20	16QAM	100	0	16.58	17.05	17.19	17.15	17.05	17.05						
20	16QAM	1	40	16.85	16.86	16.84	16.87	16.85	16.85	18	2				
20	16QAM	1	80	15.91	15.96	15.92	15.93	15.93	15.93						
20	16QAM	50	0	15.90	15.97	16.05	15.98	15.99	15.99						
20	16QAM	50	24	15.71	15.85	15.92	15.83	15.84	15.84						
20	16QAM	50	50	15.92	15.89	16.03	15.98	15.99	15.99						
20	16QAM	100	0	15.88	16.06	16.11	16.00	15.99	15.99	17	3				
20	256QAM	1	0	13.77	13.84	13.88	13.87	13.86	13.86						
20	256QAM	1	40	13.83	14.10	14.12	14.01	14.05	14.05						
20	256QAM	1	80	13.88	13.96	14.02	13.94	13.89	13.89						
20	256QAM	50	0	13.81	13.92	13.95	13.80	13.82	13.82						
20	256QAM	50	24	13.73	13.92	13.95	13.80	13.82	13.82	15	5				
20	256QAM	50	50	13.79	13.95	14.00	13.92	13.91	13.91						
20	256QAM	100	0	13.82	14.04	14.06	14.06	14.09	14.09						
Channel															
Frequency (MHz)															
16	QPSK	1	0	18.79	18.93	19.12	18.78	19.13	19.13	20	0				
16	QPSK	1	37	18.77	18.98	19.08	18.91	18.85	18.85						
16	QPSK	1	74	18.81	19.78	19.96	19.86	19.84	19.84						
16	QPSK	36	0	17.83	17.86	18.08	17.78	18.05	18.05						
16	QPSK	36	20	17.78	17.90	17.93	17.84	17.80	17.80						
16	QPSK	75	0	17.82	17.85	17.97	17.82	17.85	17.85	19	1				
16	QPSK	75	0	17.70	17.97	17.98	17.85	17.83	17.83						
16	16QAM	1	0	17.89	18.03	18.14	17.99	17.97	17.97						
16	16QAM	1	37	17.89	17.98	18.09	17.96	17.96	17.96						
16	16QAM	1	74	17.85	17.90	18.03	17.94	17.92	17.92						
16	16QAM	36	0	16.73	16.83	17.02	16.65	16.85	16.85	18	2				
16	16QAM	36	20	16.85	16.82	16.82	16.73	16.71	16.71						
16	16QAM	36	39	16.58	16.64	16.80	16.72	16.68	16.68						
16	16QAM	75	0	16.76	17.02	17.09	16.69	16.93	16.93						
16	16QAM	75	0	16.92	16.91	17.06	17.11	16.96	16.96						
16	16QAM	1	37	16.68	16.76	16.84	16.79	16.75	16.75	18	2				
16	16QAM	1	74	16.77	16.91	16.97	16.90	16.95	16.95						
16	16QAM	36	0	15.81	15.85	15.91	15.88	15.85	15.85						
16	16QAM	36	20	15.99	15.76	16.80	15.71	15.74	15.74						
16	16QAM	36	39	15.82	15.83	15.83	15.73	15.69	15.69						
16	16QAM	75	0	15.51	15.97	16.00	15.90	15.95	15.95	17	3				
16	256QAM	1	0	13.73	13.77	13.87	13.78	13.80	13.80						
16	256QAM	1	40	13.70	13.80	13.85	13.69	13.75	13.75						
16	256QAM	1	74	13.77	13.85	13.90	13.88	13.86	13.86						
16	256QAM	36	0	13.77	13.98	14.01	13.91	13.97	13.97						
16	256QAM	36	20	13.70	13.80	13.85	13.69	13.75	13.75	15	5				
16	256QAM	36	39	13.72	13.82	13.85	13.79	13.85	13.85						
16	256QAM	75	0	13.79	13.93	14.03	13.93	14.00	14.00						
Channel															
Frequency (MHz)															
8	QPSK	1	0	18.93	19.06	19.20	18.93	19.19	19.19	20	0				
8	QPSK	1	25	18.79	18.92	19.02	18.84	19.03	19.03						
8	QPSK	1	49	18.76	18.84	18.80	18.90	18.80	18.80						
8	QPSK	25	0	17.89	17.96	18.00	17.80	18.00	18.00						
8	QPSK	25	12	17.75	17.85	17.97	17.83	17.86	17.86						
8	QPSK	25	18	17.87	17.88	18.02	17.82	17.88	17.88	19	1				
8	QPSK	50	0	17.70	17.92	17.94	17.84	17.84	17.84						
8	16QAM	1	0	17.88	17.88	18.09	17.87	17.88	17.88						
8	16QAM	1	25	17.12	17.81	17.89	17.86	17.82	17.82						
8	16QAM	1	49	17.84	17.91	17.97	17.92	17.86	17.86						
8	16QAM	25	0	16.71	16.82	17.01	16.65	16.85	16.85	18	2				
8	16QAM	25	19	16.84	16.78	16.86	16.86	16.79	16.79						
8	16QAM	25	39	16.63	16.63	16.84	16.67	16.75	16.75						
8	16QAM	50	0	16.80	16.83	17.01	17.03	16.99	16.99						
8	16QAM	50	0	16.91	16.90	17.09	17.09	16.99	16.99						
8	16QAM	1	25	16.70	16.83	16.89	16.80	16.76	16.76	18	2				
8	16QAM	1	49	16.87	16.87	17.00	16.80	16.87	16.87						
8	16QAM	25	0	15.85	15.83	16.00	15.94	15.89	15.89						
8	16QAM	25	12	15.67	15.74	15.80	15.70	15.79	15.79						
8	16QAM	25	25	15.79	15.75	15.95	15.79	15.86	15.86						
8	16QAM	50	0	15.86	15.85	16.03	15.92	15.89	15.89	15	5				
8	256QAM	1	0	13.72	13.71	13.87	13.72	13.82	13.82						
8	256QAM	1	25	13.83	14.04	14.10	13.90	13.91	13.91						
8	256QAM	1	49	13.82	13.91	13.97	13.81	13.79	13.79						
8	256QAM	25	0	13.73	13.93	13.93	13.81	13.82	13.82						
8	256QAM	25	0	13.83	13.96	13.84	13.73	13.89	13.89	15	5				
8	256QAM	25	25	13.72	13.92	13.91	13.79	13.79	13.79						
8	256QAM	50	0	13.83	13.95	14.06	13.99	14.04	14.04						
Channel															
Frequency (MHz)															
5	QPSK	1	0	18.85	18.95	19.21	18.95	19.18	19.18	20	0				
5	QPSK	1	15	18.83	18.93	19.09	18.95	18.99	18.99						
5	QPSK	1	24	18.76	18.79	18.93	18.88	18.84	18.84						
5	QPSK	12	0	17.86	17.96	18.04	17.86	18.02	18.02						
5	QPSK	12	7	17.85	17.85	18.01	17.83	17.84	17.84						
5	QPSK	12	13	17.90	17.80	17.96	17.86	17.93	17.93	19	1				
5	QPSK	25	0	17.74	17.90	17.96	17.86	17.84	17.84						
5	16QAM	1	0	17.87	17.99	18.09	17.88	17.94	17.94						
5	16QAM	1	15	17.68	17.84	17.97	17.80	17.87	17.87						
5	16QAM	1	24	17.82	17.89	17.97	17.89	17.86	17.86						
5	16QAM	12	7	17.74	17.84	17.93	17.76	17.86	17.86	18	2				
5	16QAM	12	13	17.82	17.74	17.88	17.75	17.80	17.80						
5	16QAM	12	19	17.81	17.71	17.81	17.68	17.73	17.73						
5	16QAM	25	0	16.87	17.00	17.07	16.87	17.00	17.00						
5	16QAM	25	12	16.71	16.74	16.85	16.62	16.72	16.72						
5	16QAM	1	12	16.74	16.77	16.87	16.67	16.81	16.81	17	2				
5	16QAM	1	18	16.77	16.83	16.90	16.69	16.82	16.82						
5	16QAM	25	0	15.88	15.76	15.92	15.70	15.72	15.72						
5	16QAM	25	12	15.77	15.80	15.93	15.68	15.80	15.80						
5	16QAM	25	18	15.97	15.99	16.03	15.86	15.88	15.88						
5	256QAM	1	0	13.72	13.72	13.85	13.72	13.82	13.82	15	5				
5	256QAM	1	25	13.83	13.95	14.04	13.80	13.89	13.89						
5	256QAM	1	24	13.84	13.94	13.97	13.80	13.80	13.80						
5	256QAM	12	0	13.72	13.99	14.03	13.83	13.87	13.87						
5	256QAM	12	7	13.87	13.82	13.81	13.73	13.73	13.73						
5	256QAM	12	13	13.88	13.92	13.96	13.86	13.89	13.89	15	5				
5	256QAM	12	19	13.87	13.94	14.00	13.81	13.84	13.84						
5	256QAM	25	0	13.82	13.95	14.06	13.99	14.04	14.04						
Channel															
Frequency (MHz)															
5	QPSK	1	0	18.83	18.95	19.21	18.95	19.18	19.18	20	0				
5	QPSK	1	12	18.78	18.93	18.99	18.85	18.90	18.90						
5	QPSK	1	24	18.76	18.84	18.80	18.90	18.80	18.80						
5	QPSK	12	0	17.86	17.96	18.04	17.86	18.02	18.02						
5	QPSK	12	7	17.85	17.85	18.01	17.83	17.84	17.84						
5	QPSK	12	13	17.90	17.80	17.96	17.86	17.93	17.93	19	1				
5	QPSK	25	0	17.74	17.90	17.96	17.86	17.84	17.84						
5	16QAM	1	0	17.87	17.99	18.09	17.88	17.94	17.94						
5	16QAM	1	12	17.68	17.84	17.97	17.80	17.87	17.87						
5	16QAM	1	24	17.82	17.89	17.97	17.89	17.86	17.86						
5	16QAM	12	7	17.74	17.84	17.93	17.76	17.86	17.86	18	2				



Band 42 FCC Part27Q Ant8											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)			
Channel				42190	42590	42990					
Frequency (MHz)											
20	QPSK	1	0	16.46	16.50	16.52	17.4	0			
20	QPSK	1	49	16.43	16.49	16.43					
20	QPSK	1	99	16.37	16.39	16.34					
20	QPSK	50	0	16.50	16.57	16.44					
20	QPSK	50	24	16.36	16.49	16.42	17.4	0			
20	QPSK	50	50	16.45	16.47	16.40					
20	QPSK	100	0	16.29	16.45	16.42					
20	16QAM	1	0	16.40	16.46	16.38					
20	16QAM	1	49	16.35	16.42	16.31	17.4	0			
20	16QAM	1	99	16.23	16.37	16.31					
20	16QAM	50	24	16.36	16.46	16.40					
20	16QAM	50	50	16.30	16.42	16.36					
20	16QAM	100	0	16.28	16.47	16.39	17.4	0			
20	84QAM	1	0	16.42	16.52	16.43					
20	84QAM	1	49	16.48	16.54	16.65					
20	84QAM	1	99	16.45	16.52	16.41					
20	84QAM	50	0	16.31	16.34	16.25	17.4	0			
20	84QAM	50	24	16.41	16.53	16.49					
20	84QAM	50	50	16.47	16.52	16.43					
20	84QAM	100	0	16.32	16.42	16.41					
20	256QAM	1	0	16.37	16.42	16.30	16.5	0.9			
20	256QAM	1	49	16.40	16.47	16.44					
20	256QAM	1	99	16.46	16.49	16.44					
20	256QAM	50	0	16.42	16.49	16.37					
20	256QAM	50	24	16.29	16.39	16.30	16.5	0.9			
20	256QAM	50	50	16.43	16.48	16.60					
20	256QAM	100	0	16.35	16.37	16.29					
Channel				42190	42590	42990					
Frequency (MHz)											
15	QPSK	1	0	16.43	16.47	16.50	17.4	0			
15	QPSK	1	47	16.31	16.40	16.30					
15	QPSK	1	74	16.16	16.29	16.30					
15	QPSK	36	0	16.27	16.35	16.38					
15	QPSK	36	20	16.32	16.41	16.26	17.4	0			
15	QPSK	36	36	16.34	16.47	16.27					
15	QPSK	75	0	16.22	16.39	16.38					
15	16QAM	1	0	16.38	16.44	16.31					
15	16QAM	1	47	16.20	16.37	16.24	17.4	0			
15	16QAM	1	74	16.24	16.27	16.20					
15	16QAM	36	0	16.22	16.41	16.33					
15	16QAM	36	36	16.20	16.36	16.17					
15	16QAM	36	36	16.28	16.44	16.28	17.4	0			
15	16QAM	75	0	16.30	16.32	16.26					
15	84QAM	1	0	16.28	16.39	16.29					
15	84QAM	1	27	16.40	16.51	16.41					
15	84QAM	1	74	16.33	16.36	16.34	17.4	0			
15	84QAM	36	0	16.23	16.27	16.18					
15	84QAM	36	20	16.33	16.42	16.38					
15	84QAM	36	36	16.30	16.37	16.26					
15	84QAM	75	0	16.20	16.33	16.31	16.5	0.9			
15	256QAM	1	0	16.28	16.30	16.23					
15	256QAM	1	47	16.35	16.38	16.28					
15	256QAM	1	74	16.44	16.49	16.41					
15	256QAM	36	0	16.32	16.39	16.23	16.5	0.9			
15	256QAM	36	20	16.24	16.37	16.29					
15	256QAM	36	36	16.38	16.39	16.35					
15	256QAM	75	0	16.16	16.27	16.14					
Channel				42190	42590	42990					
Frequency (MHz)											
10	QPSK	1	0	16.28	16.40	16.34	17.4	0			
10	QPSK	1	25	16.34	16.47	16.34					
10	QPSK	1	49	16.22	16.29	16.28					
10	QPSK	25	0	16.42	16.47	16.52					
10	QPSK	25	12	16.27	16.40	16.24	17.4	0			
10	QPSK	25	25	16.32	16.38	16.39					
10	QPSK	50	0	16.31	16.36	16.37					
10	16QAM	1	0	16.31	16.32	16.36					
10	16QAM	1	25	16.13	16.32	16.16	17.4	0			
10	16QAM	1	49	16.16	16.24	16.29					
10	16QAM	25	0	16.28	16.39	16.33					
10	16QAM	25	12	16.19	16.22	16.13					
10	16QAM	25	25	16.26	16.35	16.33	17.4	0			
10	16QAM	50	0	16.29	16.36	16.22					
10	84QAM	1	0	16.30	16.43	16.36					
10	84QAM	1	25	16.34	16.47	16.48					
10	84QAM	1	49	16.33	16.49	16.32	17.4	0			
10	84QAM	25	0	16.26	16.27	16.12					
10	84QAM	25	12	16.37	16.40	16.36					
10	84QAM	25	25	16.31	16.42	16.33					
10	84QAM	50	0	16.24	16.36	16.34	16.5	0.9			
10	256QAM	1	0	16.26	16.29	16.21					
10	256QAM	1	25	16.35	16.46	16.40					
10	256QAM	1	49	16.44	16.47	16.40					
10	256QAM	25	0	16.27	16.30	16.26	16.5	0.9			
10	256QAM	25	12	16.29	16.34	16.21					
10	256QAM	25	25	16.36	16.40	16.35					
10	256QAM	50	0	16.26	16.30	16.16					
Channel				42190	42590	42990					
Frequency (MHz)											
5	QPSK	1	0	16.42	16.49	16.59	17.4	0			
5	QPSK	1	12	16.33	16.40	16.34					
5	QPSK	1	24	16.21	16.25	16.28					
5	QPSK	12	0	16.42	16.50	16.37					
5	QPSK	12	7	16.28	16.36	16.26	17.4	0			
5	QPSK	12	13	16.30	16.34	16.29					
5	QPSK	26	0	16.19	16.29	16.29					
5	16QAM	1	0	16.38	16.39	16.32					
5	16QAM	1	12	16.14	16.25	16.22	17.4	0			
5	16QAM	1	24	16.13	16.20	16.23					
5	16QAM	12	0	16.19	16.36	16.27					
5	16QAM	12	7	16.23	16.34	16.16					
5	16QAM	12	13	16.29	16.44	16.32	17.4	0			
5	16QAM	25	0	16.32	16.38	16.19					
5	84QAM	1	0	16.41	16.43	16.23					
5	84QAM	1	12	16.43	16.45	16.49					
5	84QAM	1	24	16.35	16.50	16.36	17.4	0			
5	84QAM	12	0	16.22	16.22	16.21					
5	84QAM	12	7	16.35	16.45	16.41					
5	84QAM	12	13	16.42	16.44	16.37					
5	84QAM	26	0	16.16	16.31	16.36	17.4	0			
5	256QAM	1	0	16.33	16.29	16.28					
5	256QAM	1	12	16.29	16.43	16.39					
5	256QAM	1	24	16.49	16.48	16.47					
5	256QAM	12	0	16.37	16.37	16.22	16.5	0.9			
5	256QAM	12	7	16.30	16.27	16.27	16.5	0.9			
5	256QAM	12	13	16.36	16.43	16.38					



Band 43 for FCC use Ant8											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				43690	44090	44490					
Frequency (MHz)				3600	3600	3600					
20	QPSK	1	0	18.38	18.42	18.38	19.1	0			
20	QPSK	1	49	18.41	18.40	18.29					
20	QPSK	1	89	18.31	18.29	18.25					
20	QPSK	50	0	18.38	18.39	18.17					
20	QPSK	50	24	18.18	18.38	18.21	19	0.1			
20	QPSK	50	50	18.18	18.38	18.24					
20	QPSK	100	0	18.27	18.38	18.27					
20	HQAM	1	0	18.17	18.31	18.26					
20	HQAM	1	49	18.27	18.31	18.21	19	0.1			
20	HQAM	1	89	18.28	18.39	18.15					
20	HQAM	50	24	17.40	17.45	17.22					
20	HQAM	50	50	17.55	17.55	17.28					
20	HQAM	100	0	17.28	17.41	17.25	18	1.1			
20	HQAM	100	1	17.25	17.25	17.25					
20	HQAM	1	49	17.25	17.25	17.25					
20	HQAM	1	89	17.29	17.37	17.15					
20	HQAM	50	24	16.21	16.30	16.21	17	2.1			
20	HQAM	50	50	16.21	16.30	16.21					
20	HQAM	100	0	16.43	16.38	16.34					
20	HQAM	100	1	16.34	16.36	16.10					
20	256QAM	1	49	14.14	14.30	14.22	15	4.1			
20	256QAM	1	89	14.21	14.30	14.19					
20	256QAM	50	24	14.13	14.37	14.37					
20	256QAM	50	50	14.31	14.35	14.22					
20	256QAM	100	0	14.31	14.35	14.15	15	4.1			
20	256QAM	100	1	14.31	14.35	14.15					
Channel				43690	44090	44490					
Frequency (MHz)				3607.5	3600	3607.5					
15	QPSK	1	0	18.29	18.41	18.27	19.1	0			
15	QPSK	1	47	18.41	18.39	18.28					
15	QPSK	1	74	18.09	18.23	18.18					
15	QPSK	36	0	18.39	18.39	18.18					
15	QPSK	36	20	18.08	18.33	18.17	19	0.1			
15	QPSK	36	50	18.08	18.33	18.28					
15	QPSK	75	0	18.31	18.29	18.27					
15	HQAM	1	0	18.18	18.23	18.14					
15	HQAM	1	47	18.24	18.21	18.21	19	0.1			
15	HQAM	1	74	18.20	18.39	18.15					
15	HQAM	36	0	17.31	17.38	17.22					
15	HQAM	36	20	17.12	17.23	17.13					
15	HQAM	36	59	17.14	17.39	17.22	18	1.1			
15	HQAM	75	0	17.28	17.35	17.28					
15	HQAM	1	0	17.22	17.29	17.22					
15	HQAM	1	27	17.21	17.28	17.03					
15	HQAM	1	74	17.24	17.26	17.03	18	1.1			
15	HQAM	36	0	16.24	16.27	16.03					
15	HQAM	36	20	16.13	16.29	16.15					
15	HQAM	36	59	16.25	16.34	16.14					
15	HQAM	75	0	16.40	16.35	16.31	17	2.1			
15	256QAM	1	0	14.25	14.24	14.01					
15	256QAM	1	47	14.15	14.23	14.21					
15	256QAM	1	74	14.11	14.25	14.10					
15	256QAM	36	0	14.37	14.32	14.27	15	4.1			
15	256QAM	36	20	14.01	14.29	14.27					
15	256QAM	36	59	14.22	14.23	14.18					
15	256QAM	75	0	14.18	14.37	14.15					
Channel				43690	44090	44490					
Frequency (MHz)				3603.5	3600	3607.5					
10	QPSK	1	0	18.38	18.42	18.38	19.1	0			
10	QPSK	1	25	18.27	18.31	18.19					
10	QPSK	1	49	18.04	18.17	18.25					
10	QPSK	50	0	18.38	18.39	18.15					
10	QPSK	25	12	18.12	18.29	18.07	19	0.1			
10	QPSK	25	25	18.22	18.23	18.23					
10	QPSK	50	0	18.28	18.35	18.14					
10	HQAM	1	0	18.12	18.19	18.13					
10	HQAM	1	25	18.22	18.28	18.11	19	0.1			
10	HQAM	1	49	18.18	18.38	18.04					
10	HQAM	25	0	17.34	17.38	17.12					
10	HQAM	25	12	17.11	17.21	17.15					
10	HQAM	25	25	17.15	17.25	17.15	18	1.1			
10	HQAM	50	0	17.32	17.35	17.30					
10	HQAM	1	0	17.11	17.15	17.10					
10	HQAM	1	25	17.28	17.30	17.13					
10	HQAM	1	49	17.23	17.32	17.21	18	1.1			
10	HQAM	25	0	16.24	16.15	16.09					
10	HQAM	25	12	16.18	16.23	16.15					
10	HQAM	25	25	16.16	16.32	16.13					
10	HQAM	50	0	16.28	16.31	16.29	17	2.1			
10	256QAM	1	0	14.23	14.26	13.99					
10	256QAM	1	25	14.04	14.22	14.13					
10	256QAM	1	49	14.08	14.27	14.08					
10	256QAM	25	0	14.26	14.41	14.28	15	4.1			
10	256QAM	25	12	14.08	14.24	14.17					
10	256QAM	25	25	14.25	14.25	14.12					
10	256QAM	50	0	14.25	14.29	14.15					
Channel				43690	44090	44490					
Frequency (MHz)				3603.5	3600	3607.5					
5	QPSK	1	0	18.36	18.36	18.13	19.1	0			
5	QPSK	1	12	18.36	18.40	18.28					
5	QPSK	1	24	17.98	18.23	18.16					
5	QPSK	12	0	18.30	18.34	18.08					
5	QPSK	12	7	18.07	18.28	18.17	19	0.1			
5	QPSK	12	13	18.19	18.50	18.17					
5	QPSK	25	0	18.25	18.29	18.17					
5	HQAM	1	0	18.15	18.21	18.19					
5	HQAM	1	12	18.23	18.31	18.20	19	0.1			
5	HQAM	1	24	18.27	18.34	18.15					
5	HQAM	12	0	17.26	17.32	17.18					
5	HQAM	12	7	17.03	17.27	17.22					
5	HQAM	12	13	17.07	17.38	17.12	18	1.1			
5	HQAM	25	0	17.26	17.32	17.30					
5	HQAM	1	0	17.13	17.17	17.22					
5	HQAM	1	12	17.19	17.37	17.06					
5	HQAM	1	24	17.28	17.27	17.03	18	1.1			
5	HQAM	12	0	16.28	16.27	16.11					
5	HQAM	12	7	16.10	16.21	16.11					
5	HQAM	12	13	16.10	16.38	16.11					
5	HQAM	25	0	16.40	16.25	16.29	17	2.1			
5	256QAM	1	0	14.22	14.30	14.05					
5	256QAM	1	12	14.08	14.27	14.14					
5	256QAM	1	24	14.14	14.25	14.15					
5	256QAM	12	0	14.47	14.35	14.27	15	4.1			
5	256QAM	12	7	14.05	14.38	14.22					
5	256QAM	12	13	14.24	14.24	14.03					
5	256QAM	25	0	14.22	14.34	14.18					



Reduced Power Mode for DBS Simultaneous

GSM850 40W							
Channel	Ratc Average Power (dBm)			Tx Power Limit (dBm)	Power Average Power (dBm)		
	126	180	261		126	180	261
Frequency (MHz)	824.2	837.4	848.8	870.0	824.2	837.4	848.8
GSM 1 Tx max	33.83	32.65	32.52	33.50	33.83	33.50	33.52
OPMS 1 Tx max	32.56	32.64	32.52	33.50	33.56	33.64	33.52
OPMS 1 Tx min	23.16	23.06	23.49	23.00	23.16	23.06	23.49
OPMS 3 Tx max	28.00	28.36	28.10	29.00	23.74	24.10	23.69
OPMS 4 Tx max	25.09	26.02	25.97	27.00	22.89	23.92	22.87
EDGE 1 Tx max	23.76	23.72	23.42	26.00	18.76	18.72	18.42
EDGE 2 Tx max	23.76	23.67	23.72	24.50	17.76	17.67	17.72
EDGE 3 Tx max	23.54	22.77	22.54	23.50	18.54	18.51	18.54
EDGE 4 Tx max	20.48	20.05	20.48	21.50	17.48	17.05	17.48

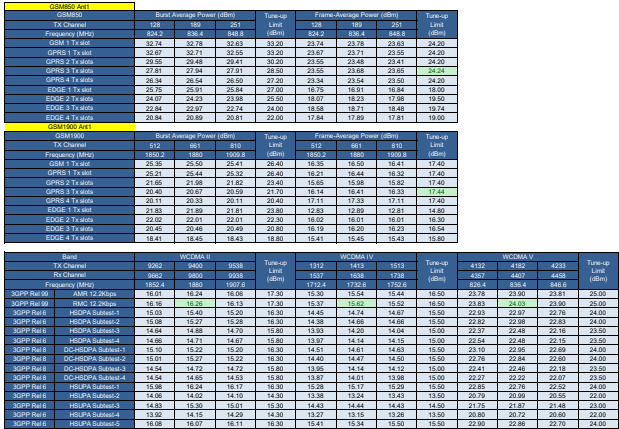
WCDMA 4 40W							
Tx Channel	WCDMA V			Tx Power Limit (dBm)			
	#152	#152	#153				
Frequency (MHz)	824.4	836.4	848.8	870.0			
SCPP Rel 99	33.10	34.13	33.10	35.10			
SCPP Rel 99	33.02	34.02	34.02	35.02			
SCPP Rel 6	22.80	22.87	23.10	24.00			
SCPP Rel 6	HS-DSA Subcar-1	22.80	22.87	23.10			
SCPP Rel 6	HS-DSA Subcar-2	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-3	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-4	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-5	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-6	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-7	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-8	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-9	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-10	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-11	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-12	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-13	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-14	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-15	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-16	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-17	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-18	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-19	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-20	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-21	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-22	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-23	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-24	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-25	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-26	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-27	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-28	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-29	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-30	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-31	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-32	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-33	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-34	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-35	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-36	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-37	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-38	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-39	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-40	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-41	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-42	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-43	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-44	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-45	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-46	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-47	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-48	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-49	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-50	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-51	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-52	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-53	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-54	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-55	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-56	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-57	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-58	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-59	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-60	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-61	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-62	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-63	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-64	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-65	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-66	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-67	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-68	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-69	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-70	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-71	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-72	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-73	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-74	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-75	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-76	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-77	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-78	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-79	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-80	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-81	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-82	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-83	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-84	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-85	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-86	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-87	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-88	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-89	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-90	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-91	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-92	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-93	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-94	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-95	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-96	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-97	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-98	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-99	22.84	22.93	23.50			
SCPP Rel 6	HS-DSA Subcar-100	22.84	22.93	23.50			

Band 5 Ant0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turnup time (ms)	MPE (dB)						
Channel														
800 806.5 844														
10	QPSK	1	0	22.60	22.73	22.68	24	0						
10	QPSK	1	25	22.51	22.58	22.54								
10	QPSK	1	49	22.50	22.64	22.55								
10	QPSK	25	0	21.69	21.72	21.62								
10	QPSK	25	12	21.44	21.53	21.44	23	1						
10	QPSK	25	25	21.53	21.66	21.61								
10	QPSK	50	0	21.61	21.65	21.59								
10	16QAM	1	0	21.59	21.67	21.61								
10	16QAM	1	25	21.41	21.52	21.38	23	1						
10	16QAM	1	49	21.54	21.65	21.45								
10	16QAM	25	0	20.47	20.55	20.43								
10	16QAM	25	12	20.35	20.49	20.35								
10	16QAM	25	25	20.50	20.66	20.53	22	2						
10	16QAM	50	0	20.54	20.65	20.59								
10	64QAM	1	0	20.51	20.59	20.54								
10	64QAM	1	25	20.45	20.51	20.47								
10	64QAM	1	49	20.55	20.65	20.53	21	3						
10	64QAM	25	0	19.47	19.52	19.40								
10	64QAM	25	12	19.52	19.63	19.59								
10	64QAM	25	25	19.44	19.49	19.35								
10	64QAM	50	0	19.50	19.62	19.54	19	5						
10	256QAM	1	25	17.44	17.45	17.40								
10	256QAM	1	49	17.49	17.62	17.52								
10	256QAM	25	12	17.40	17.56	17.44								
10	256QAM	25	25	17.50	17.63	17.50	19	5						
10	256QAM	50	0	17.50	17.56	17.44								
10	256QAM	50	0	17.40	17.50	17.40								
Channel														
20405 20525 20605														
5	QPSK	1	0	826.5	836.5	846.5	24	0						
5	QPSK	1	12	22.59	22.68	22.54								
5	QPSK	1	24	22.45	22.48	22.44								
5	QPSK	1	24	22.45	22.54	22.47								
5	QPSK	12	0	21.65	21.68	21.55	23	1						
5	QPSK	12	7	21.35	21.44	21.39								
5	QPSK	12	13	21.45	21.52	21.51								
5	QPSK	25	0	21.60	21.54	21.48								
5	16QAM	1	0	21.53	21.56	21.52	23	1						
5	16QAM	1	12	21.31	21.49	21.32								
5	16QAM	12	0	20.43	20.51	20.37								
5	16QAM	12	7	20.25	20.36	20.21								
5	16QAM	12	13	20.54	20.66	20.49	22	2						
5	16QAM	25	0	20.48	20.58	20.46								
5	64QAM	1	0	20.38	20.54	20.48								
5	64QAM	1	12	21.47	21.47	21.31								
5	64QAM	1	24	20.43	20.52	20.47	21	3						
5	64QAM	12	0	19.38	19.40	19.25								
5	64QAM	12	13	19.41	19.53	19.50								
5	64QAM	12	13	19.39	19.44	19.24								
5	64QAM	25	0	19.38	19.52	19.39	19	5						
5	256QAM	1	0	17.43	17.48	17.38								
5	256QAM	1	12	17.46	17.49	17.33								
5	256QAM	1	24	17.45	17.52	17.45								
5	256QAM	12	0	17.40	17.40	17.36	19	5						
5	256QAM	12	7	17.44	17.50	17.40								
5	256QAM	12	13	17.45	17.50	17.35								
5	256QAM	25	0	17.44	17.50	17.46								
Channel														
20415 20525 20605														
5	QPSK	1	0	826.5	836.5	846.5	24	0						
3	QPSK	1	8	22.42	22.53	22.41								
3	QPSK	1	14	22.38	22.60	22.51								
3	QPSK	8	0	21.65	21.68	21.55								
3	QPSK	8	7	21.39	21.43	21.34	23	1						
3	QPSK	8	7	21.40	21.55	21.57								
3	16QAM	1	0	21.54	21.57	21.50								
3	16QAM	1	0	21.49	21.55	21.52								
3	16QAM	1	8	21.34	21.41	21.31	23	1						
3	16QAM	1	14	21.42	21.57	21.39								
3	16QAM	8	0	20.41	20.49	20.39								
3	16QAM	8	4	20.21	20.40	20.21								
3	16QAM	8	7	20.32	20.51	20.47	22	2						
3	16QAM	15	0	20.48	20.61	20.50								
3	64QAM	1	0	20.47	20.44	20.45								
3	64QAM	1	8	20.33	20.40	20.33								
3	64QAM	1	14	20.43	20.62	20.43	21	3						
3	64QAM	8	0	19.35	19.40	19.33								
3	64QAM	8	4	19.38	19.50	19.33								
3	64QAM	8	7	19.38	19.39	19.23								
3	64QAM	15	0	19.37	19.54	19.46	19	5						
3	256QAM	1	0	17.38	17.41	17.34								
3	256QAM	1	8	17.37	17.38	17.27								
3	256QAM	1	14	17.40	17.57	17.37								
3	256QAM	8	0	17.26	17.41	17.26	19	5						
3	256QAM	8	4	17.39	17.59	17.47								
3	256QAM	8	7	17.40	17.52	17.40								
3	256QAM	15	0	17.47	17.60	17.46								
Channel														
20407 20525 20605														
1.4	QPSK	1	0	22.54	22.70	22.57	24	0						
1.4	QPSK	1	3	22.40	22.50	22.49								
1.4	QPSK	1	5	22.35	22.50	22.41								
1.4	QPSK	3	0	22.64	22.67	22.48								
1.4	QPSK	3	1	22.35	22.43	22.39	23	1						
1.4	QPSK	3	3	22.41	22.52	22.48								
1.4	QPSK	3	1	21.48	21.56	21.43								
1.4	16QAM	1	0	21.48	21.52	21.50								
1.4	16QAM	1	3	21.32	21.45	21.29	23	1						
1.4	16QAM	1	5	21.48	21.52	21.40								
1.4	16QAM	3	0	21.37	21.47	21.37								
1.4	16QAM	3	1	21.52	21.42	21.20								
1.4	16QAM	3	3	21.35	21.48	21.43	22	2						
1.4	16QAM	6	0	20.43	20.56	20.49								
1.4	64QAM	1	0	20.37	20.35	20.45								
1.4	64QAM	1	3	20.40	20.40	20.39								
1.4	64QAM	1	5	20.41	20.61	20.39	22	2						
1.4	64QAM	3	0	20.32	20.49	20.32								
1.4	64QAM	3	1	20.48	20.48	20.30								
1.4	64QAM	3	3	20.39	20.40	20.28								
1.4	64QAM	6	0	19.40	19.55	19.46	21	3						
1.4	256QAM	1	0	17.40	17.47	17.35								
1.4	256QAM	1	3	17.40	17.40	17.36								
1.4	256QAM	1	5	17.43	17.49	17.38								
1.4	256QAM	3	0	17.26	17.36	17.41	19	5						
1.4	256QAM	3	1	17.41	17.52	17.45								
1.4	256QAM	3	3	17.44	17.42	17.33								
1.4	256QAM	6	0	17.54	17.57	17.43	19	5						

Band 17 Ant0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
700 710 711												
10	QPSK	1	0	22.85	22.85	22.92	24	0				
10	QPSK	1	24	22.77	22.85	22.92						
10	QPSK	1	48	22.75	22.81	22.88						
10	QPSK	25	0	21.82	21.84	21.84	23	1				
10	QPSK	25	12	21.78	21.80	21.83						
10	QPSK	25	25	21.71	21.80	21.79						
10	QPSK	50	0	21.80	21.85	21.77	23	1				
10	16QAM	1	0	20.95	20.92	20.90						
10	16QAM	1	25	21.83	21.90	21.90						
10	16QAM	1	49	21.83	21.91	21.87	22	2				
10	16QAM	25	0	20.81	20.95	20.92						
10	16QAM	25	12	20.71	20.82	20.75						
10	16QAM	25	25	20.79	20.87	20.80	21	3				
10	16QAM	50	0	20.81	20.91	20.82						
10	64QAM	1	0	21.00	21.04	21.00						
10	64QAM	1	25	20.89	20.92	20.90	22	2				
10	64QAM	1	49	20.82	20.91	20.79						
10	64QAM	25	0	19.84	19.78	19.62						
10	64QAM	25	12	19.79	19.86	19.73	19	5				
10	64QAM	25	25	19.87	19.71	19.57						
10	64QAM	50	0	19.75	19.80	19.82						
10	256QAM	1	25	17.89	17.84	17.88	19	5				
10	256QAM	1	49	17.71	17.86	17.78						
10	256QAM	25	0	17.81	17.80	17.86						
10	256QAM	25	12	17.74	17.84	17.75	19	5				
10	256QAM	25	25	17.85	17.79	17.75						
10	256QAM	50	0	17.79	17.83	17.88						
Channel												
Frequency (MHz)												
706.5 710 713.5												
5	QPSK	1	0	22.71	22.85	22.83	24	0				
5	QPSK	1	12	22.70	22.71	22.71						
5	QPSK	1	24	22.68	22.75	22.61						
5	QPSK	12	0	21.76	21.90	21.80	23	1				
5	QPSK	12	7	21.67	21.79	21.71						
5	QPSK	12	13	21.65	21.75	21.66						
5	QPSK	25	0	21.67	21.77	21.64	23	1				
5	16QAM	1	0	21.98	21.97	21.92						
5	16QAM	1	12	21.89	21.93	21.84						
5	16QAM	1	24	21.78	21.80	21.75	22	2				
5	16QAM	12	0	20.67	20.91	20.77						
5	16QAM	12	7	20.64	20.70	20.64						
5	16QAM	12	13	20.71	20.72	20.70	21	3				
5	16QAM	25	0	20.75	20.78	20.78						
5	64QAM	1	0	20.90	20.95	20.90						
5	64QAM	1	12	20.80	20.82	20.84	22	2				
5	64QAM	1	24	20.88	20.91	20.89						
5	64QAM	12	0	19.83	19.86	19.81						
5	64QAM	12	7	19.83	19.83	19.84	21	3				
5	64QAM	12	13	19.90	19.92	19.93						
5	64QAM	25	0	19.81	19.76	19.77						
5	256QAM	1	0	17.84	17.82	17.76	19	5				
5	256QAM	1	12	17.75	17.85	17.75						
5	256QAM	1	24	17.88	17.75	17.69						
5	256QAM	12	0	17.76	17.71	17.74	19	5				
5	256QAM	12	7	17.80	17.75	17.83						
5	256QAM	12	13	17.87	17.65	17.71						
5	256QAM	25	0	17.72	17.68	17.76						

Band 26 for FCC Ant0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
821.5 831.5 841.5												
15	QPSK	1	0	22.58	22.77	22.67	24	0				
15	QPSK	1	37	22.47	22.57	22.52						
15	QPSK	1	74	22.39	22.63	22.54						
15	QPSK	36	0	21.51	21.63	21.60	23	1				
15	QPSK	36	20	21.50	21.58	21.50						
15	QPSK	36	36	21.40	21.54	21.46						
15	QPSK	75	0	21.59	21.67	21.67	23	1				
15	16QAM	1	0	21.72	21.80	21.70						
15	16QAM	1	37	21.56	21.71	21.63						
15	16QAM	1	74	21.55	21.68	21.63	22	2				
15	16QAM	36	0	20.49	20.52	20.48						
15	16QAM	36	20	20.68	20.73	20.62						
15	16QAM	36	36	20.64	20.67	20.67	22	2				
15	16QAM	75	0	20.50	20.58	20.52						
15	64QAM	1	0	20.68	20.72	20.69						
15	64QAM	1	37	20.55	20.64	20.54	22	2				
15	64QAM	1	74	20.65	20.70	20.72						
15	64QAM	36	0	19.54	19.65	19.59						
15	64QAM	36	20	19.52	19.74	19.61	21	3				
15	64QAM	36	39	19.54	19.68	19.54						
15	64QAM	75	0	19.50	19.64	19.51						
15	256QAM	1	0	17.52	17.63	17.57	19	5				
15	256QAM	1	37	17.56	17.62	17.65						
15	256QAM	1	74	17.59	17.67	17.67						
15	256QAM	36	0	17.52	17.63	17.57	19	5				
15	256QAM	36	20	17.65	17.72	17.65						
15	256QAM	36	39	17.52	17.65	17.61						
15	256QAM	75	0	17.61	17.68	17.57						
15	256QAM	75	0	17.46	17.60	17.47						
Channel												
Frequency (MHz)												
819 831.5 844												
10	QPSK	1	0	22.49	22.72	22.60	24	0				
10	QPSK	1	25	22.39	22.44	22.43						
10	QPSK	1	49	22.55	22.61	22.49						
10	QPSK	25	0	21.37	21.54	21.57	23	1				
10	QPSK	25	12	21.40	21.48	21.41						
10	QPSK	25	25	21.34	21.48	21.41						
10	QPSK	50	0	21.54	21.59	21.48	23	1				
10	16QAM	1	0	21.81	21.88	21.85						
10	16QAM	1	25	21.52	21.67	21.54						
10	16QAM	1	49	21.44	21.62	21.46	22	2				
10	16QAM	25	0	20.42	20.58	20.38						
10	16QAM	25	12	20.64	20.59	20.49						
10	16QAM	25	25	20.59	20.58	20.51	21	3				
10	16QAM	50	0	20.44	20.53	20.46						
10	64QAM	1	0	20.55	20.60	20.51						
10	64QAM	1	25	20.51	20.55	20.48	22	2				
10	64QAM	1	49	20.57	20.65	20.57						
10	64QAM	25	0	19.39	19.58	19.52						
10	64QAM	25	12	19.45	19.59	19.48	21	3				
10	64QAM	25	25	19.53	19.54	19.43						
10	64QAM	50	0	19.41	19.58	19.40						
10	256QAM	1	0	17.57	17.62	17.55	19	5				
10	256QAM	1	25	17.52	17.65	17.48						
10	256QAM	1	49	17.45	17.63	17.44						
10	256QAM	25	0	17.42	17.52	17.48	19	5				
10	256QAM	25	12	17.51	17.67	17.52						
10	256QAM	25	25	17.43	17.							
Channel												
Frequency (MHz)												
815.5 831.5 847.5												
3	QPSK	1	0	22.46	22.64	22.57	24	0				
3	QPSK	1	12	22.36	22.47	22.48						
3	QPSK	1	24	22.41	22.51	22.46						
3	QPSK	12	0	21.37	21.51	21.46	23	1				
3	QPSK	12	7	21.40	21.47	21.45						
3	QPSK	12	14	21.35	21.48	21.41						
3	QPSK	25	0	21.45	21.61	21.44	23	1				
3	16QAM	1	0	21.83	21.88	21.88						
3	16QAM	1	12	21.52	21.65	21.58						
3	16QAM	1	24	21.47	21.65	21.46	22	2				
3	16QAM	12	0	20.37	20.53	20.41						
3	16QAM	12	7	20.59	20.59	20.51						
3	16QAM	12	14	20.59	20.59	20.51	22	2				
3	16QAM	25	0	20.46	20.53	20.42						
3	16QAM	25	7	20.67	20.53	20.46						
3	16QAM	1	24	20.37	20.48	20.35	21	3				
3	16QAM	1	36	20.57	20.61	20.41						
3	16QAM	1	48	19.51	19.63	19.53						
3	16QAM	12	15	19.55	19.59	19.41	19	5				
3	16QAM	12	27	17.45	17.48	17.47						
3	16QAM	12	39	17.58	17.47	17.43						
3	16QAM	1	48	17.45	17.53	17.43	19	5				
3	16QAM	12	7	17.54	17.69	17.51						
3	16QAM	12	14	17.47	17.52	17.47						
3	16QAM	12	27	17.46	17.62	17.46						
3	256QAM	1	0	17.46	17.62	17.46						
Channel												
Frequency (MHz)												
26097 26097 27073												
1.4	QPSK	1	0	22.51	22.66	22.62	24	0				
1.4	QPSK	1	8	22.36	22.54	22.46						
1.4	QPSK	1	16	22.49	22.57	22.51						
1.4	QPSK	1	0	21.49	21.54	21.53	23	1				
1.4	QPSK	3	0	21.45	21.53	21.48						
1.4	QPSK	3	22	21.39	21.52	21.42						
1.4	QPSK	15	0	21.55	21.64	21.57	23	1				
1.4	16QAM	1	0	21.68	21.69	21.64						
1.4	16QAM	1	8	21.57	21.68	21.58						
1.4	16QAM	1	16	21.65	21.68	21.64	23	1				
1.4	16QAM	15	0	21.51	21.58	21.52						
1.4	16QAM	15	8	21.58	21.56	21.52						
1.4	16QAM	6	0	20.41	20.45	20.40	22	2				
1.4	16QAM	6	22	20.59	20.48	20.40						
1.4	16QAM	6	44	20.47	20.54	20.48						
1.4	16QAM	1	6	20.33	20.68	20.35	22	2				
1.4	16QAM	3	0	19.57	19.67	19.62						
1.4	16QAM	3	20	20.49	20.62	20.55						
1.4	16QAM	3	0	20.37	20.62	20.41	21	3				
1.4	16QAM	6	6	17.54	17.61	17.48						
1.4	16QAM	1	16	17.51	17.68	17.42						
1.4	16QAM	1	32	17.51	17.68	17.42	19	5				
1.4	16QAM	1	48	17.48	17.48	17.52						
1.4	16QAM	3	16	17.57	17.59	17.58						
1.4	16QAM	1	48	17.57	17.58	17.58	19	5				
1.4	16QAM	3	32	17.57	17.58	17.58						
1.4	16QAM	3	48	17.51	17.50	17.53						
1.4	256QAM	1	0	17.51	17.50	17.53	19	5				
1.4	256QAM	1	16	17.51	17.50	17.53						
1.4	256QAM	1	32	17.51	17.50	17.53						

Band 41 Ant0												
RW [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 limit (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				39750	40188	40620	41056	41490	41924			
20	QPSK	1	0	19.72	19.78	19.83	19.85	19.78	19.76	20.5	0	
20	QPSK	1	40	19.63	19.60	19.74	19.58	19.62	19.60			
20	QPSK	1	80	19.71	19.66	19.81	19.76	19.77	19.77			
20	QPSK	50	0	19.67	19.75	19.79	19.65	19.75	19.75			
20	QPSK	50	24	19.63	19.65	19.72	19.68	19.65	19.65	20.5	0	
20	QPSK	50	48	19.60	19.63	19.76	19.65	19.65	19.65			
20	QPSK	100	0	19.67	19.65	19.73	19.71	19.68	19.68			
20	16QAM	1	0	19.68	19.76	19.79	19.75	19.73	19.73	20.5	0	
20	16QAM	1	40	19.63	19.74	19.76	19.69	19.68	19.68			
20	16QAM	1	80	19.75	19.72	19.86	19.69	19.79	19.79			
20	16QAM	50	0	19.66	19.75	19.62	19.72	19.76	19.76			
20	16QAM	50	24	19.70	19.74	19.83	19.75	19.79	19.79	20.5	0	
20	16QAM	50	50	19.77	19.72	19.80	19.67	19.79	19.79			
20	16QAM	100	0	19.72	19.71	19.85	19.74	19.77	19.77			
20	16QAM	100	24	19.62	19.62	19.75	19.61	19.71	19.71	20.5	0	
20	16QAM	1	40	19.74	19.78	19.84	19.82	19.75	19.75			
20	16QAM	1	80	19.64	19.67	19.81	19.76	19.79	19.79			
20	16QAM	50	0	19.65	19.68	19.85	19.73	19.85	19.85			
20	16QAM	50	24	19.65	19.84	19.88	19.74	19.84	19.84	20	0.5	
20	16QAM	50	50	19.67	19.81	19.84	19.66	19.85	19.85			
20	16QAM	100	0	19.62	19.63	19.10	19.96	19.94	19.94			
20	256QAM	1	0	17.04	17.00	17.13	17.03	17.01	17.01	18	2.5	
20	256QAM	1	40	16.86	16.90	16.86	16.86	16.89	16.89			
20	256QAM	1	80	17.06	17.01	17.10	16.97	16.97	16.97			
20	256QAM	50	0	16.98	16.96	16.96	16.91	16.96	16.96			
20	256QAM	50	24	16.92	16.85	16.94	16.81	16.80	16.80	18	2.5	
20	256QAM	50	50	16.72	16.73	16.85	16.71	16.78	16.78			
20	256QAM	100	0	16.95	16.94	17.00	17.00	17.01	17.01			
Channel												
Frequency (MHz)				39750	40173	40620	41066	41515	41962	Turn-up limit (dBm)	MPR (dB)	
Power (dBm)				23.0	23.0	23.0	23.0	23.0	23.0			
16	QPSK	1	0	19.61	19.79	19.83	19.12	19.72	19.72	21	0	
16	QPSK	1	37	19.67	19.64	19.68	19.85	19.82	19.82			
16	QPSK	1	74	19.62	19.60	19.68	19.66	19.68	19.68			
16	QPSK	36	0	19.62	19.75	19.69	19.55	19.65	19.65	21	0	
16	QPSK	36	20	19.59	19.56	19.64	19.53	19.51	19.51	20.5	0	
16	QPSK	36	40	19.59	19.56	19.62	19.59	19.59	19.59			
16	QPSK	75	0	19.44	19.62	19.60	19.63	19.60	19.60			
16	16QAM	1	0	19.58	19.61	19.65	19.65	19.59	19.59	20.5	0	
16	16QAM	1	37	19.60	19.54	19.72	19.63	19.64	19.64			
16	16QAM	1	74	19.62	19.62	19.77	19.58	19.58	19.58			
16	16QAM	36	0	19.54	19.60	19.69	19.68	19.72	19.72	20.5	0	
16	16QAM	36	20	19.56	19.56	19.62	19.67	19.67	19.67			
16	16QAM	36	39	19.72	19.68	19.72	19.54	19.73	19.73			
16	16QAM	75	0	19.59	19.60	19.71	19.66	19.76	19.76	20.5	0	
16	16QAM	1	37	19.63	19.62	19.64	19.52	19.61	19.61			
16	16QAM	1	74	19.61	19.53	19.77	19.71	19.61	19.61			
16	16QAM	36	0	19.65	19.60	19.63	19.69	19.60	19.60	20	0.5	
16	16QAM	36	20	19.75	19.72	19.74	19.64	19.71	19.71			
16	16QAM	36	39	19.65	19.60	19.62	19.65	19.65	19.65			
16	256QAM	1	0	19.57	19.55	19.57	19.50	19.54	19.54			
16	256QAM	1	37	16.94	16.87	16.87	16.74	16.74	16.74	18	2.5	
16	256QAM	1	74	16.93	16.86	16.86	16.74	16.74	16.74			
16	256QAM	36	0	16.93	16.88	16.93	16.89	16.89	16.89	18	2.5	
16	256QAM	36	20	16.75	16.69	16.83	16.74	16.65	16.65			
16	256QAM	36	39	16.85	16.70	16.75	16.59	16.68	16.68	18	2.5	
16	256QAM	75	0	16.93	16.80	16.90	16.87	16.87	16.87			
Channel												
Frequency (MHz)				39750	40140	40620	41080	41568	41962	Turn-up limit (dBm)	MPR (dB)	
Power (dBm)				24.0	24.0	24.0	24.0	24.0	24.0			
10	QPSK	1	0	19.64	19.78	19.79	19.50	19.64	19.64	20.50	0	
10	QPSK	1	25	19.55	19.48	19.69	19.48	19.48	19.48			
10	QPSK	1	49	19.62	19.58	19.74	19.61	19.62	19.62			
10	QPSK	25	0	19.62	19.69	19.70	19.65	19.65	19.65	20.5	0	
10	QPSK	25	12	19.54	19.59	19.67	19.62	19.59	19.59			
10	QPSK	25	25	19.47	19.50	19.65	19.60	19.65	19.65			
10	QPSK	50	0	19.44	19.56	19.64	19.57	19.60	19.60	20.5	0	
10	16QAM	1	0	19.62	19.71	19.66	19.65	19.79	19.79	20.5	0	
10	16QAM	1	25	19.58	19.61	19.67	19.67	19.58	19.58			
10	16QAM	1	49	19.70	19.67	19.72	19.61	19.58	19.58			
10	16QAM	25	0	19.55	19.61	19.75	19.69	19.62	19.62	20.5	0	
10	16QAM	25	12	19.56	19.61	19.73	19.66	19.66	19.66			
10	16QAM	25	25	19.68	19.64	19.72	19.56	19.73	19.73			
10	16QAM	50	0	19.68	19.67	19.80	19.65	19.76	19.76	20.5	0	
10	16QAM	1	0	19.64	19.62	19.70	19.48	19.61	19.61			
10	16QAM	1	25	19.61	19.63	19.69	19.71	19.57	19.57	20.5	0	
10	16QAM	1	49	19.51	19.60	19.73	19.72	19.62	19.62			
10	16QAM	25	0	19.61	19.60	19.81	19.81	19.85	19.85	20	0.5	
10	16QAM	25	12	19.62	19.70	19.73	19.59	19.80	19.80			
10	16QAM	25	25	19.79	19.87	19.90	19.83	19.81	19.81			
10	16QAM	50	0	19.84	19.87	19.97	19.92	19.91	19.91			
10	256QAM	1	0	16.94	16.90	17.07	16.95	16.95	16.95	18	2.5	
10	256QAM	1	25	16.73	16.79	16.88	16.81	16.84	16.84			
10	256QAM	1	49	16.97	16.97	17.04	16.91	16.85	16.85			
10	256QAM	25	0	16.95	16.86	16.88	16.78	16.82	16.82	18	2.5	
10	256QAM	25	12	16.78	16.77	16.82	16.68	16.79	16.79			
10	256QAM	25	25	16.61	16.70	16.75	16.64	16.69	16.69			
10	256QAM	50	0	16.90	16.89	17.01	16.91	16.96	16.96			
Channel												
Frequency (MHz)				3498.5	3545.5	3593	3640.50	3687.5	3734.5	Turn-up limit (dBm)	MPR (dB)	
Power (dBm)				24.0	24.0	24.0	24.0	24.0	24.0			
5	QPSK	1	0	19.67	19.70	19.76	19.56	19.68	19.68	20.50	0	
5	QPSK	1	12	19.50	19.50	19.66	19.52	19.49	19.49			
5	QPSK	1	24	19.59	19.55	19.77	19.64	19.62	19.62			
5	QPSK	12	0	19.64	19.67	19.74	19.67	19.71	19.71	20.5	0	
5	QPSK	12	7	19.50	19.56	19.58	19.58	19.58	19.58			
5	QPSK	12	13	19.53	19.53	19.68	19.60	19.55	19.55			
5	QPSK	25	0	19.67	19.54	19.63	19.56	19.59	19.59	20.5	0	
5	16QAM	1	0	19.64	19.67	19.73	19.61	19.68	19.68			
5	16QAM	1	12	19.58	19.64	19.62	19.64	19.54	19.54	20.5	0	
5	16QAM	1	24	19.65	19.62	19.75	19.67	19.62	19.62			
5	16QAM	12	0	19.51	19.62	19.73	19.67	19.67	19.67	20.5	0	
5	16QAM	12	7	19.58	19.68	19.70	19.61	19.66	19.66			
5	16QAM	12	13	19.62	19.60	19.77	19.61	19.64	19.64			
5	16QAM	25	0	19.61	19.68	19.74	19.62	19.76	19.76	20.5	0	
5	16QAM	1	0	19.57	19.64	19.60	19.53	19.59	19.59			
5	16QAM	1	12	19.60	19.67	19.79	19.73	19.60	19.60			
5	16QAM	1	24	19.52	19.60	19.74	19.68	19.61	19.61	20	0.5	
5	16QAM	12	0	19.52	19.63	19.73	19.80	19.73	19.73			
5	16QAM	12	7	19.58	19.68	19.69	19.73	19.68	19.68			
5	16QAM	12	13	19.60	19.58	19.79	19.73	19.68	19.68			
5	16QAM	25	0	19.60	19.66	19.68	19.63	19.68	19.68	20	0.5	
5	16QAM	25	12	19.52	19.58	19.60	19.53	19.58	19.58			
5	16QAM	25	24	19.78	19.69	19.69	19.73	19.68	19.68			
5	256QAM	1	0	16.98	16.82	16.73	16.96	16.87	16.87	18	2.5	
5	256QAM	1	12	16.85	16.85	16.98	16.89	16.89	16.89			



Band 2 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.24	16.31	16.19			
20	QPSK	1	49	16.18	16.22	16.22	17.4	0	
20	QPSK	1	99	16.09	16.19	16.05			
20	QPSK	50	0	16.19	16.26	16.23			
20	QPSK	24	0	16.08	16.17	16.12	17.4	0	
20	QPSK	50	50	16.13	16.19	16.12			
20	QPSK	100	0	16.09	16.23	16.17			
20	QPSK	100	0	16.21	16.28	16.15			
20	HQAM	1	49	16.13	16.20	16.08	17.4	0	
20	HQAM	1	99	16.24	16.28	16.19			
20	HQAM	50	0	16.17	16.23	16.17			
20	HQAM	50	24	16.14	16.24	16.14	17.4	0	
20	HQAM	50	50	16.14	16.21	16.14			
20	HQAM	100	0	16.07	16.16	16.12			
20	HQAM	1	0	16.13	16.25	16.10			
20	HQAM	1	49	16.10	16.16	16.05	17.4	0	
20	HQAM	50	99	16.20	16.29	16.23			
20	HQAM	50	0	16.02	16.16	16.12			
20	HQAM	50	24	16.09	16.21	16.09	17.4	0	
20	HQAM	50	25	16.11	16.18	16.04			
20	HQAM	100	0	16.19	16.28	16.25			
20	HQAM	1	49	15.97	16.03	15.93			
20	25SSBAM	1	99	15.98	16.11	16.04	17	0.4	
20	25SSBAM	50	0	15.97	16.07	16.02			
20	25SSBAM	50	24	15.81	15.94	15.85	17	0.4	
20	25SSBAM	50	50	15.83	15.88	15.88			
20	25SSBAM	100	0	15.90	16.13	0			
Channel									
Frequency (MHz)									
15	QPSK	1	0	16.07	16.05	16.02			
15	QPSK	1	37	16.12	16.08	16.02	17.4	0	
15	QPSK	1	74	16.06	16.09	16.02			
15	QPSK	36	0	16.14	16.21	16.10			
15	QPSK	36	20	15.93	16.08	16.02	17.4	0	
15	QPSK	36	39	16.09	16.09	16.09			
15	QPSK	75	0	16.06	16.10	16.10			
15	HQAM	1	0	16.16	16.19	16.02			
15	HQAM	1	37	16.05	16.11	15.98	17.4	0	
15	HQAM	1	74	16.13	16.18	16.10			
15	HQAM	36	0	16.07	16.10	16.07			
15	HQAM	36	20	16.09	16.14	16.04	17.4	0	
15	HQAM	36	39	16.08	16.12	16.02			
15	HQAM	75	0	15.94	16.03	15.98			
15	HQAM	1	0	16.08	16.12	15.97			
15	HQAM	37	16.00	16.15	16.02	17.4	0		
15	HQAM	1	74	16.11	16.23	16.15			
15	HQAM	36	0	15.90	16.02	16.06			
15	HQAM	36	20	15.99	16.12	15.94	17.4	0	
15	HQAM	36	39	15.99	16.12	15.94			
15	HQAM	75	0	16.16	16.18	16.20			
15	HQAM	1	0	15.94	16.01	15.98			
15	25SSBAM	1	37	15.93	15.95	15.96	17	0.4	
15	25SSBAM	1	74	15.91	16.02	15.98			
15	25SSBAM	50	0	15.96	16.03	15.96			
15	25SSBAM	36	20	15.89	15.88	15.75	17	0.4	
15	25SSBAM	36	39	15.74	15.92	15.72			
15	25SSBAM	75	0	15.95	16.01	15.98			
Channel									
Frequency (MHz)									
10	QPSK	1	0	16.10	16.11	16.10			
10	QPSK	1	25	16.10	16.08	16.01	17.4	0	
10	QPSK	1	49	15.99	16.10	16.02			
10	QPSK	25	0	16.14	16.15	16.14			
10	QPSK	25	12	15.95	16.07	15.96	17.4	0	
10	QPSK	25	25	16.03	16.07	16.08			
10	QPSK	100	0	16.09	16.10	16.09			
10	HQAM	1	0	16.07	16.17	16.06			
10	HQAM	1	25	16.03	16.15	15.98	17.4	0	
10	HQAM	1	49	16.10	16.23	16.10			
10	HQAM	25	0	16.09	16.15	16.13			
10	HQAM	25	12	16.06	16.12	16.02	17.4	0	
10	HQAM	25	25	16.10	16.12	16.01			
10	HQAM	50	0	16.00	16.09	16.08			
10	HQAM	1	0	16.03	16.11	15.99			
10	HQAM	1	25	15.96	16.06	16.01	17.4	0	
10	HQAM	1	49	16.15	16.15	16.20			
10	HQAM	25	0	15.90	16.06	16.06			
10	HQAM	25	12	16.05	16.12	16.02	17.4	0	
10	HQAM	25	25	16.02	16.12	15.99			
10	HQAM	50	0	16.12	16.22	16.15			
10	HQAM	50	0	15.96	16.05	16.05			
10	25SSBAM	1	25	15.93	15.92	15.83	17	0.4	
10	25SSBAM	1	49	15.83	16.04	15.96			
10	25SSBAM	50	0	15.99	15.98	15.97			
10	25SSBAM	25	12	15.72	15.90	15.71	17	0.4	
10	25SSBAM	25	25	15.78	15.90	15.83			
10	25SSBAM	50	0	15.96	16.00	15.96			
Channel									
Frequency (MHz)									
5	QPSK	1	0	16.13	16.17	16.17			
5	QPSK	1	12	16.13	16.15	16.10	17.4	0	
5	QPSK	1	24	16.00	16.14	15.99			
5	QPSK	12	0	16.08	16.20	16.17			
5	QPSK	12	7	16.04	16.05	15.97	17.4	0	
5	QPSK	12	13	16.04	16.09	16.03			
5	QPSK	25	0	16.02	16.13	16.13			
5	HQAM	1	0	16.15	16.18	16.05			
5	HQAM	1	12	15.98	16.15	15.97	17.4	0	
5	HQAM	1	24	16.12	16.14	16.04			
5	HQAM	12	0	16.10	16.11	16.04			
5	HQAM	12	7	16.00	16.13	16.04	17.4	0	
5	HQAM	12	13	16.03	16.17	16.02			
5	HQAM	25	0	15.96	16.08	16.07			
5	HQAM	1	0	16.09	16.15	16.07			
5	HQAM	1	12	16.06	16.09	15.97	17.4	0	
5	HQAM	1	24	16.10	16.19	16.18			
5	HQAM	12	0	15.88	16.09	16.00			
5	HQAM	12	7	16.02	16.13	16.02	17.4	0	
5	HQAM	12	13	16.06	16.13	15.94			
5	HQAM	25	0	16.05	16.16	16.14			
5	25SSBAM	1	0	16.03	16.05	15.97			
5	25SSBAM	1	12	15.94	15.95	15.86	17	0.4	
5	25SSBAM	1	24	15.94	16.01	15.95			
5	25SSBAM	12	0	15.93	15.98	15.89			
5	25SSBAM	12	7	15.70	15.86	15.79	17	0.4	
5	25SSBAM	12	13	15.75	15.90	15.82			
5	25SSBAM	25	0	15.90	16.01	15.97			
Channel									
Frequency (MHz)									
3	QPSK	1	0	16.13	16.28	16.15			
3	QPSK	1	8	16.11	16.11	16.09	17.4	0	
3	QPSK	1	14	16.02	16.06	15.96			
3	QPSK	8	0	16.14	16.15	16.15			
3	QPSK	8	4	15.96	16.07	15.98	17.4	0	
3	QPSK	8	7	16.10	16.10	16.00			
3	QPSK	16	0	15.97	16.12	16.09			
3	HQAM	1	0	16.09	16.24	16.02	17.4	0	
3	HQAM	1	8	16.03	16.13	15.98			
3	HQAM	1	14	16.19	16.21	16.04			
3	HQAM	8	0	16.04	16.14	16.05			
3	HQAM	8	4	16.05	16.16	15.99	17.4	0	
3	HQAM	8	7	16.08	16.11	16.00			
3	HQAM	16	0	15.93	16.06	16.02			
3	HQAM	1	0	16.08	16.11	15.99			
3	HQAM	1	8	15.97	16.04	15.89	17.4	0	
3	HQAM	1	14	16.11	16.17	16.17			
3	HQAM	8	4	16.05	16.13	16.02			
3	HQAM	8	7	16.04	16.13	15.99	17.4	0	
3	HQAM	16	0	15.95	16.08	16.04			
3	25SSBAM	1	8	15.91	15.96	15.82	17	0.4	
3	25SSBAM	1	14	15.98	16.04	15.92			
3	25SSBAM	8	0	15.89	16.02	15.89			
3	25SSBAM	8	4	15.78	15.89	15.74	17	0.4	
3	25SSBAM	8	7	15.76	15.84	15.76			
3	25SSBAM	16	0	15.92	16.04	15.96			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	16.15	16.19	16.10			
1.4	QPSK	1	3	16.05	16.12	16.02			
1.4	QPSK	1	5	16.00	16.10	15.96	17.4	0	
1.4	QPSK	3	0	16.08	16.20	16.17			
1.4	QPSK	3	1	15.92	16.13	16.01			
1.4	QPSK	3	3	16.06	16.09	16.03			
1.4	QPSK	5	0	16.05	16.18	16.09	17.4	0	
1.4	HQAM	1	0	16.16	16.21	16.06			
1.4	HQAM	1	3	16.09	16.1	16.01			
1.4	HQAM	1	5	16.04	16.14	16.04	17.4	0	
1.4	HQAM	3	0	16.08	16.08	16.13			
1.4	HQAM	3	1	16.01	16.18	16.09			
1.4	HQAM	5	0	16.03	16.16	16.04	17.4	0	
1.4	HQAM	5	3	16.01	16.13	16.02			
1.4	HQAM	1	0	16.13	16.27	16.07			
1.4	HQAM	1	3	16.14	16.14	16.13			
1.4	HQAM	3	0	16.05	16.14	16.10			
1.4	HQAM	3	3	16.14	16.20	16.14	17.4	0	
1.4	HQAM	5	0	16.02	16.16	16.12			
1.4	25SSBAM	1	3	15.93	15.97	15.87	17	0.4	
1.4	25SSBAM	1	5	15.86	16.07	15.94			
1.4	25SSBAM	3	0	15.92	16.09	15.99			
1.4	25SSBAM	3	1	15.75	15.91	15.80	17	0.4	



Band 7 Ant1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Main Ch./Freq.	Power High Ch./Freq.	Turn-on rate (dB)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	15.41	15.42	15.36			16.6	0		
20	QPSK	1	49	15.26	15.32	15.33						
20	QPSK	1	99	15.33	15.38	15.24			16.6	0		
20	QPSK	50	0	15.31	15.42	15.39						
20	QPSK	50	24	15.17	15.29	15.18			16.6	0		
20	QPSK	50	50	15.29	15.39	15.25						
20	QPSK	100	0	15.15	15.30	15.17			16.6	0		
20	16QAM	1	0	15.34	15.43	15.31						
20	16QAM	1	49	15.24	15.34	15.27			16.6	0		
20	16QAM	50	50	15.24	15.30	15.16						
20	16QAM	50	24	15.16	15.33	15.18			16.6	0		
20	16QAM	50	50	15.18	15.29	15.20						
20	16QAM	100	0	15.14	15.29	15.21			16.6	0		
20	64QAM	1	49	15.27	15.40	15.27						
20	64QAM	1	99	15.34	15.39	15.29			16.6	0		
20	64QAM	50	0	15.22	15.28	15.23						
20	64QAM	50	24	15.29	15.32	15.30			16.6	0		
20	64QAM	50	50	15.21	15.33	15.19						
20	64QAM	100	0	15.26	15.38	15.24			16.6	0		
20	256QAM	1	49	15.23	15.29	15.18						
20	256QAM	1	99	15.25	15.29	15.23			16.6	0		
20	256QAM	50	0	15.31	15.34	15.26						
20	256QAM	50	24	15.19	15.29	15.15			16.6	0		
20	256QAM	50	50	15.19	15.28	15.21						
20	256QAM	100	0	15.28	15.42	15.38			Turn-on rate (dB)			
Channel												
Frequency (MHz)												
15	QPSK	1	0	15.28	15.33	15.24			16.6	0		
15	QPSK	1	37	15.12	15.21	15.06						
15	QPSK	1	74	15.29	15.24	15.09			16.6	0		
15	QPSK	36	0	15.18	15.26	15.27						
15	QPSK	36	25	15.04	15.22	15.14			16.6	0		
15	QPSK	36	39	15.23	15.25	15.11						
15	QPSK	75	0	15.09	15.20	15.19			16.6	0		
15	16QAM	1	1	15.22	15.29	15.24						
15	16QAM	1	37	15.19	15.32	15.16			16.6	0		
15	16QAM	1	74	15.13	15.22	15.19						
15	16QAM	36	0	15.10	15.20	15.06			16.6	0		
15	16QAM	36	20	15.05	15.29	15.24						
15	16QAM	36	25	15.15	15.25	15.11			16.6	0		
15	16QAM	75	0	15.10	15.14	15.11						
15	64QAM	1	0	15.27	15.29	15.25			16.6	0		
15	64QAM	1	37	15.15	15.26	15.11						
15	64QAM	1	74	15.26	15.30	15.23			16.6	0		
15	64QAM	36	0	15.08	15.23	15.15						
15	64QAM	36	25	15.13	15.17	15.05			16.6	0		
15	64QAM	36	39	15.13	15.17	15.08						
15	64QAM	75	0	15.10	15.14	15.11			16.6	0		
15	256QAM	1	37	15.20	15.31	15.25						
15	256QAM	1	74	15.26	15.30	15.23			16.6	0		
15	256QAM	36	0	15.07	15.16	15.13						
15	256QAM	36	25	15.13	15.17	15.13			16.6	0		
15	256QAM	36	39	15.08	15.20	15.13						
15	256QAM	75	0	15.12	15.20	15.20			16.6	0		
15	256QAM	1	37	15.11	15.21	15.18						
15	256QAM	1	74	15.12	15.16	15.16			16.6	0		
15	256QAM	36	0	15.06	15.20	15.16						
15	256QAM	36	20	15.12	15.23	15.08			16.6	0		
15	256QAM	36	39	15.13	15.24	15.12						
15	256QAM	75	0	15.13	15.16	15.12			Turn-on rate (dB)			
Channel												
Frequency (MHz)												
10	QPSK	1	0	15.34	15.33	15.26			16.6	0		
10	QPSK	1	25	15.15	15.21	15.04						
10	QPSK	1	49	15.26	15.21	15.11			16.6	0		
10	QPSK	12	0	15.26	15.32	15.33						
10	QPSK	25	13	15.09	15.20	15.08			16.6	0		
10	QPSK	25	25	15.16	15.30	15.20						
10	16QAM	1	0	15.05	15.24	15.03			16.6	0		
10	16QAM	1	0	15.30	15.35	15.29						
10	16QAM	1	25	15.19	15.30	15.17			16.6	0		
10	16QAM	1	49	15.18	15.30	15.16						
10	16QAM	1	49	15.18	15.30	15.23			16.6	0		
10	16QAM	25	0	15.19	15.18	15.12						
10	16QAM	25	12	15.05	15.26	15.24			16.6	0		
10	16QAM	25	25	15.07	15.16	15.06						
10	16QAM	50	0	15.01	15.19	15.17			16.6	0		
10	64QAM	1	0	15.20	15.28	15.17						
10	64QAM	1	25	15.16	15.31	15.15			16.6	0		
10	64QAM	1	49	15.21	15.26	15.17						
10	64QAM	25	0	15.14	15.22	15.11			16.6	0		
10	64QAM	25	12	15.19	15.25	15.07						
10	64QAM	25	25	15.15	15.27	15.07			16.6	0		
10	64QAM	50	0	15.16	15.30	15.20						
Channel												
Frequency (MHz)												
5	QPSK	1	0	15.34	15.33	15.26			16.6	0		
5	QPSK	1	12	15.15	15.25	15.16						
5	QPSK	1	24	15.21	15.23	15.09			16.6	0		
5	QPSK	12	0	15.16	15.26	15.33						
5	QPSK	12	7	15.06	15.17	15.04			16.6	0		
5	QPSK	12	13	15.16	15.32	15.11						
5	QPSK	25	0	15.07	15.21	15.04			16.6	0		
5	16QAM	1	0	15.29	15.30	15.31						
5	16QAM	1	12	15.20	15.28	15.11			16.6	0		
5	16QAM	1	24	15.20	15.29	15.22						
5	16QAM	12	0	15.17	15.21	15.07			16.6	0		
5	16QAM	12	7	15.05	15.20	15.20						
5	16QAM	12	13	15.10	15.19	15.08			16.6	0		
5	16QAM	25	0	15.06	15.22	15.12						
5	64QAM	1	0	15.24	15.40	15.21			16.6	0		
5	64QAM	1	12	15.20	15.30	15.14						
5	64QAM	1	24	15.24	15.32	15.17			16.6	0		
5	64QAM	12	0	15.11	15.23	15.15						
5	64QAM	12	7	15.22	15.21	15.11			16.6	0		
5	64QAM	12	13	15.13	15.22	15.12						
5	64QAM	25	0	15.16	15.30	15.16			16.6	0		
5	256QAM	1	0	15.19	15.36	15.12						
5	256QAM	1	12	15.11	15.20	15.15			16.6	0		
5	256QAM	1	24	15.17	15.22	15.12						
5	256QAM	12	0	15.17	15.32	15.24			16.6	0		
5	256QAM	12	7	15.10	15.14	15.02						
5	256QAM	12	13	15.13	15.24	15.12			Turn-on rate (dB)			
5	256QAM	25	0	15.13	15.30	15.24						
5	256QAM	25	0	15.13	15.30	15.24						

Band 12 Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Main Ch./Freq.	Power High Ch./Freq.	Turn-up rate (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.58	22.70	22.62			24	0
10	QPSK	1	25	22.53	22.70	22.62				
10	QPSK	1	49	22.56	22.70	22.67			23	1
10	QPSK	25	0	21.68	21.71	21.64				
10	QPSK	25	12	21.54	21.68	21.58			23	1
10	QPSK	25	25	21.62	21.68	21.63				
10	QPSK	50	0	21.60	21.67	21.63			23	1
10	QPSK	50	1	21.70	21.75	21.64				
10	QPSK	50	25	21.64	21.71	21.63			23	1
10	QPSK	50	50	21.57	21.66	21.59				
10	QPSK	25	0	20.83	20.70	20.98			22	2
10	QPSK	25	25	20.83	20.69	20.92				
10	QPSK	25	50	20.68	20.78	20.72			22	2
10	QPSK	50	0	20.84	20.73	20.99				
10	QPSK	50	25	20.83	20.69	20.94			22	2
10	QPSK	50	50	20.72	20.84	20.84				
10	QPSK	1	25	20.67	20.77	20.64			21	3
10	QPSK	1	49	20.63	20.68	20.64				
10	QPSK	1	73	20.54	20.65	20.58			21	3
10	QPSK	1	98	20.62	20.71	20.59				
10	QPSK	25	0	19.91	19.98	19.95			19	5
10	QPSK	25	25	19.82	19.79	19.82				
10	QPSK	25	50	19.77	19.71	19.68			19	5
10	QPSK	50	0	19.59	19.74	19.62				
10	QPSK	50	25	19.59	19.62	19.58			19	5
10	QPSK	50	50	19.66	19.71	19.66				
Unbrk-bw (dB)										
MPR (dB)										
Channel										
Frequency (MHz)										
8	QPSK	1	0	22.17	22.70	22.43			24	0
8	QPSK	1	12	22.04	22.58	22.31				
8	QPSK	1	25	22.06	22.44	22.06			23	1
8	QPSK	12	0	21.65	21.65	21.62				
8	QPSK	12	7	21.40	21.62	21.52			23	1
8	QPSK	12	14	21.56	21.41	21.52				
8	QPSK	25	0	21.53	21.56	21.52			21	1
8	QPSK	25	1	21.58	21.64	21.57				
8	QPSK	25	12	21.58	21.59	21.58			21	1
8	QPSK	25	25	21.61	21.62	21.59				
8	QPSK	12	5	20.48	20.66	20.52			22	2
8	QPSK	12	18	20.53	20.68	20.68				
8	QPSK	25	0	20.59	20.61	20.59			22	2
8	QPSK	25	12	20.61	20.61	20.58				
8	QPSK	1	12	20.81	20.87	20.75			22	2
8	QPSK	1	24	20.82	20.63	20.60				
8	QPSK	1	49	20.85	20.65	20.65			21	3
8	QPSK	12	7	19.30	19.37	19.30				
8	QPSK	12	13	19.48	19.51	19.48			19	5
8	QPSK	12	25	19.57	19.60	19.49				
8	QPSK	25	0	17.40	17.64	17.62			19	5
8	QPSK	25	1	17.36	17.46	17.47				
8	QPSK	25	12	17.36	17.46	17.46			19	5
8	QPSK	25	25	17.47	17.62	17.55				
8	QPSK	25	50	17.48	17.58	17.48			19	5
8	QPSK	50	0	17.53	17.61	17.53				
8	QPSK	50	25	17.54	17.57	17.60			Unbrk-bw (dB)	
MPR (dB)										
Channel										
Frequency (MHz)										
8	QPSK	1	0	22.51	22.67	22.35			24	0
8	QPSK	1	8	22.39	22.51	22.48				
8	QPSK	1	16	22.44	22.56	22.43			23	1
8	QPSK	8	0	21.60	21.59	21.60				
8	QPSK	8	4	21.43	21.59	21.49			23	1
8	QPSK	8	16	21.56	21.56	21.56				
8	QPSK	16	0	21.54	21.55	21.51			23	1
8	QPSK	16	1	21.62	21.67	21.54				
8	QPSK	16	8	21.63	21.63	21.60			22	2
8	QPSK	16	14	21.53	21.55	21.55				
8	QPSK	8	8	20.56	20.62	20.60			22	2
8	QPSK	8	16	20.62	20.65	20.62				
8	QPSK	8	7	20.57	20.58	20.62			22	2
8	QPSK	15	0	20.51	20.67	20.58				
8	QPSK	15	8	20.60	20.67	20.57			22	2
8	QPSK	15	14	20.63	20.77	20.67				
8	QPSK	8	8	20.55	20.57	20.54			21	3
8	QPSK	1	14	20.54	20.64	20.55				
8	QPSK	8	4	19.49	19.47	19.49			21	3
8	QPSK	8	7	19.45	19.52	19.48				
8	QPSK	8	15	19.45	19.50	19.45			19	5
8	QPSK	8	25	19.46	19.50	19.46				
8	QPSK	1	0	17.53	17.70	17.50			19	5
8	QPSK	1	8	17.44	17.50	17.50				
8	QPSK	1	16	17.42	17.58	17.52			19	5
8	QPSK	8	0	17.51	17.56	17.52				
8	QPSK	8	4	17.54	17.63	17.47			19	5
8	QPSK	8	14	17.54	17.67	17.47				
8	QPSK	16	0	17.50	17.58	17.57			Unbrk-bw (dB)	
MPR (dB)										
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.52	22.67	22.55			24	0
1.4	QPSK	1	25	22.41	22.53	22.53				
1.4	QPSK	1	49	22.48	22.56	22.50			23	1
1.4	QPSK	3	0	22.94	22.97	22.92				
1.4	QPSK	3	1	22.44	22.98	22.43			23	1
1.4	QPSK	3	25	22.49	22.83	22.90				
1.4	QPSK	3	49	21.57	21.64	21.57			23	1
1.4	QPSK	1	0	21.61	21.63	21.54				
1.4	QPSK	1	3	21.45	21.54	21.39			23	1
1.4	QPSK	1	25	21.47	21.63	21.44				
1.4	QPSK	3	1	21.48	21.55	21.56			23	1
1.4	QPSK	3	25	21.49	21.71	21.54				
1.4	QPSK	3	49	21.56	21.67	21.67			22	2
1.4	QPSK	6	0	20.53	20.65	20.60				
1.4	QPSK	6	1	20.59	20.74	20.64			22	2
1.4	QPSK	3	25	20.64	20.64	20.63				
1.4	QPSK	1	3	20.49	20.60	20.55			22	2
1.4	QPSK	1	25	20.59	20.60	20.49				
1.4	QPSK	3	3	20.41	20.47	20.44			21	3
1.4	QPSK	3	49	20.59	20.59	20.59				
1.4	QPSK	1	1	17.46	17.67	17.56			19	5
1.4	QPSK	1	3	17.36	17.50	17.49				
1.4	QPSK	1	25	17.37	17.51	17.51			19	5
1.4	QPSK	3	0	17.50	17.66	17.57				
1.4	QPSK	3	1	17.53	17.70	17.55			19	5
1.4	QPSK	3	25	17.47	17.67	17.54				
1.4	QPSK	6	0	17.63	17.57	17.54			19	5

Band 25 Ant1														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 26145	Power Middle Ch./Freq. 26146	Power High Ch./Freq. 26147	Turn-up time (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	16.22	16.36	16.13			17.4	0				
20	QPSK	1	49	16.12	16.19	16.08								
20	QPSK	1	99	16.18	16.26	16.14								
20	QPSK	50	0	16.24	16.30	16.10								
20	QPSK	50	24	16.07	16.21	16.02			17.4	0				
20	QPSK	50	49	16.19	16.23	16.09								
20	QPSK	100	0	16.25	16.27	16.21								
20	16QAM	1	0	16.15	16.26	16.14								
20	16QAM	1	49	16.21	16.28	16.19			17.4	0				
20	16QAM	1	99	16.25	16.26	16.14								
20	16QAM	50	24	16.13	16.32	16.27								
20	16QAM	50	50	16.28	16.31	16.26								
20	16QAM	100	0	16.18	16.30	16.17			17.4	0				
20	64QAM	1	0	16.06	16.20	16.10								
20	64QAM	1	49	16.03	16.16	16.10								
20	64QAM	50	0	16.17	16.30	16.17			17.4	0				
20	64QAM	50	24	16.12	16.26	16.21								
20	64QAM	100	0	16.23	16.31	16.14								
20	256QAM	1	0	15.96	16.07	15.84			17	0.4				
20	256QAM	1	49	15.95	16.03	15.84								
20	256QAM	1	99	15.81	15.98	15.84								
20	256QAM	50	0	15.97	16.06	15.96								
20	256QAM	50	24	15.82	15.87	15.78			17	0.4				
20	256QAM	50	50	15.77	15.89	15.84								
20	256QAM	100	0	15.93	16.00	15.82								
Channel														
Frequency (MHz)														
16	QPSK	1	0	16.10	16.31	15.92			17.4	0				
16	QPSK	1	49	15.97	16.08	16.01								
16	QPSK	1	74	16.12	16.18	16.05								
16	QPSK	36	0	16.09	16.18	15.95								
16	QPSK	36	24	16.01	16.08	15.98			17.4	0				
16	QPSK	36	36	16.14	16.18	15.94								
16	QPSK	75	0	16.21	16.12	16.15								
16	16QAM	1	0	16.05	16.22	16.08								
16	16QAM	1	37	16.09	16.17	16.11			17.4	0				
16	16QAM	1	74	16.14	16.21	16.10								
16	16QAM	36	20	16.11	16.21	16.10								
16	16QAM	36	39	16.10	16.19	16.08								
16	16QAM	36	39	16.12	16.19	16.08			17.4	0				
16	16QAM	75	0	16.13	16.22	16.08								
16	64QAM	1	0	15.98	16.07	15.99								
16	64QAM	1	49	15.96	16.04	15.93			17.4	0				
16	64QAM	1	74	16.13	16.26	16.04								
16	64QAM	36	0	16.16	16.23	16.05								
16	64QAM	36	20	16.00	16.07	15.98			17.4	0				
16	64QAM	36	36	16.04	16.11	16.10								
16	64QAM	75	0	16.12	16.24	16.04								
16	256QAM	1	0	15.85	15.96	15.87			17	0.4				
16	256QAM	1	37	15.87	15.84	15.89								
16	256QAM	36	0	15.90	15.98	15.86								
16	256QAM	36	20	15.71	15.83	15.84								
16	256QAM	36	36	15.83	15.85	15.79			17	0.4				
16	256QAM	75	0	15.81	16.03	15.83								
Channel														
Frequency (MHz)														
16	QPSK	1	0	16.09	16.09	15.97			17.4	0				
16	QPSK	1	25	16.09	16.09	15.97								
16	QPSK	1	49	16.12	16.12	16.01								
16	QPSK	25	0	15.95	16.10	15.88								
16	QPSK	25	25	16.04	16.09	16.06			17.4	0				
16	QPSK	50	0	16.12	16.12	16.01								
16	16QAM	1	0	16.05	16.19	16.02								
16	16QAM	1	25	16.11	16.22	16.11			17.4	0				
16	16QAM	25	0	16.08	16.20	16.21								
16	16QAM	25	12	16.05	16.15	16.03								
16	16QAM	25	25	16.08	16.18	16.03			17.4	0				
16	16QAM	50	0	16.08	16.22	16.10								
16	64QAM	1	0	16.03	16.13	16.03								
16	64QAM	1	49	16.12	16.23	16.13			17.4	0				
16	64QAM	25	0	16.22	16.21	16.02								
16	64QAM	25	25	16.05	16.19	16.20								
16	64QAM	50	0	16.12	16.20	16.06			17	0.4				
16	256QAM	1	0	15.91	15.96	15.87								
16	256QAM	1	25	15.90	15.98	15.87								
16	256QAM	1	49	16.70	15.91	15.86								
16	256QAM	25	0	15.85	15.88	15.86			17	0.4				
16	256QAM	25	12	15.75	15.84	15.73								
16	256QAM	25	25	15.85	15.81	15.73								
16	256QAM	50	0	15.92	15.98	15.96								
Channel														
Frequency (MHz)														
5	QPSK	1	0	16.13	16.23	16.15			17.4	0				
5	QPSK	1	12	16.01	16.05	15.96								
5	QPSK	1	24	16.08	16.18	16.04								
5	QPSK	12	0	16.11	16.17	16.04								
5	QPSK	12	7	15.96	16.17	15.93			17.4	0				
5	QPSK	12	13	16.14	16.11	15.99								
5	QPSK	26	0	16.10	16.16	16.03								
5	16QAM	1	0	16.10	16.18	16.10								
5	16QAM	1	12	16.09	16.17	16.14			17.4	0				
5	16QAM	1	24	16.21	16.18	16.04								
5	16QAM	12	0	16.04	16.26	16.14								
5	16QAM	12	7	16.08	16.17	16.08								
5	16QAM	12	13	16.24	16.17	16.07			17.4	0				
5	16QAM	25	0	16.09	16.20	16.12								
5	64QAM	1	0	15.97	16.15	15.99								
5	64QAM	1	12	15.92	16.12	16.00			17.4	0				
5	64QAM	1	24	16.09	16.27	16.07								
5	64QAM	12	0	16.13	16.25	16.11								
5	64QAM	12	13	16.00	16.17	16.08			17.4	0				
5	64QAM	25	0	15.95	16.11	16.11								
5	64QAM	25	0	16.18	16.16	16.06								
5	256QAM	1	0	15.89	15.97	15.82			17	0.4				
5	256QAM	1	12	15.81	15.91	15.90								
5	256QAM	1	24	15.71	15.94	15.76								
5	256QAM	12	0	15.76	15.91	15.84								
5	256QAM	12	7	15.78	15.74	15.66			17	0.4				
5	256QAM	12	13	15.83	15.86	15.81								
5	256QAM	25	0	15.90	16.01	15.96								
Channel														
Frequency (MHz)														
3	QPSK	1	0	16.09	16.22	15.99			17.4	0				
3	QPSK	1	7	16.00	16.08	16.04								
3	QPSK	1	14	16.07	16.17	16.03								
3	QPSK	8	0	16.14	16.16	15.96								
3	QPSK	8	4	15.98	16.12	15.98			17.4	0				
3	QPSK	8	11	16.05	16.17	16.01								
3	QPSK	15	0	16.11	16.23	16.15								
3	16QAM	1	0	16.05	16.16	16.07								
3	16QAM	1	7	16.09	16.23	16.15			17.4	0				
3	16QAM	1	14	16.18	16.17	16.04								
3	16QAM	8	0	16.10	16.19	16.14								
3	16QAM	8	7	16.02	16.15	16.14								
3	16QAM	7	7	16.21	16.28	16.05			17.4	0				
3	16QAM	15	0	16.07	16.22	16.12								
3	64QAM	1	0	15.98	16.12	15.99								
3	64QAM	1	8	15.98	16.10	15.87			17.4	0				
3	64QAM	8	8	16.02	16.15	16.10								
3	64QAM	8	4	16.01	16.18	16.12								
3	64QAM	15	0	16.17	16.23	16.11			17.4	0				
3	64QAM	15	0	16.09	16.26	16.08								
3	256QAM	1	0	15.82	16.00	15.83								
3	256QAM	1	7	15.81	15.93	15.84			17	0.4				
3	256QAM	1	14	15.77	15.87	15.72								
3	256QAM	8	0	15.86	15.97	15.86								
3	256QAM	8	7	15.80	15.88	15.81								
3	256QAM	7	7	15.73	15.79	15.68			17	0.4				
3	256QAM	15	0	15.94	16.02	15.85								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	16.12	16.25	15.99			17.4	0				
1.4	QPSK	1	7	16.05	16.17	16.07								
1.4	QPSK	1	14	16.08	16.18	16.01								
1.4	QPSK	3	0	16.16	16.13	16.02								
1.4	QPSK	3	3	16.05	16.15	16.02			17.4	0				
1.4	QPSK	3	7	16.05	16.16	16.05								
1.4	QPSK	3	14	16.17	16.17	16.01								
1.4	QPSK	6	0	16.20	16.16	16.11								
1.4	16QAM	1	0	16.20	16.24	16.14			17.4	0				
1.4	16QAM	1	7	16.20	16.20	16.14								
1.4	16QAM	1	14	16.09	16.14	16.08								
1.4	16QAM	3	0	16.18	16.24	16.12								
1.4	16QAM	3	7	16.18	16.18	16.14			17.4	0				
1.4	16QAM	3	14	16.01	16.12	16.02								
1.4	16QAM	6	0	16.06	16.14	16.06								
1.4	16QAM	6	7	16.17	16.17	16.07			17.4	0				
1.4	16QAM	6	14	16.08	16.21	16.18								
1.4	64QAM	1	0	16.10	16.18	16.08								
1.4	64QAM	1	7	16.10	16.16	16.05			17.4	0				
1.4	64QAM	1	14	16.02	16.16	16.02								
1.4	64QAM	3	0	15.90	16.02	15.98								
1.4	256QAM	1	0	15.77	15.81	15.74			17	0.4				
1.4														



Band 38 Ant1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)			
Channel				37650	38050	38150					
Frequency (MHz)				2574.5	2595.5	2615.5					
20	QPSK	1	0	16.10	15.23	15.21	17.2	0			
20	QPSK	1	49	16.09	15.23	15.18					
20	QPSK	1	98	16.07	15.10	15.06					
20	QPSK	50	0	16.01	15.17	15.11					
20	QPSK	50	24	16.11	15.14	15.07	17.2	0			
20	QPSK	50	98	15.98	15.13	15.08					
20	QPSK	100	0	16.16	15.20	15.18					
20	HQAM	1	0	16.13	16.16	16.02					
20	HQAM	1	49	16.04	16.10	16.05	17.2	0			
20	HQAM	1	99	16.03	16.10	16.15					
20	HQAM	50	24	16.07	16.16	16.01					
20	HQAM	50	98	16.07	16.15	16.11					
20	HQAM	50	50	16.08	16.21	16.07	17.2	0			
20	HQAM	100	0	16.04	16.17	16.05					
20	84QAM	1	0	16.14	16.23	16.10					
20	84QAM	1	49	16.17	16.23	16.20					
20	84QAM	1	99	16.06	16.00	15.98	17.2	0			
20	84QAM	50	24	16.12	16.15	16.03					
20	84QAM	50	98	16.12	16.15	16.03					
20	84QAM	100	0	16.03	16.18	16.03					
20	256QAM	1	0	16.02	16.10	15.99	17.2	0			
20	256QAM	1	49	16.06	16.10	16.15					
20	256QAM	1	99	15.97	16.12	16.08					
20	256QAM	50	24	16.02	16.12	16.07					
20	256QAM	50	24	16.01	16.11	15.95	17.2	0			
20	256QAM	50	50	16.03	16.10	15.84					
20	256QAM	100	0	16.01	16.23	16.13					
Channel				37625	38050	38175					
Frequency (MHz)				2577.5	2595.5	2617.5					
15	QPSK	1	0	16.03	15.14	15.14	17.2	0			
15	QPSK	1	37	16.07	15.14	15.12					
15	QPSK	1	74	15.92	16.04	16.00					
15	QPSK	36	0	15.95	16.01	16.01					
15	QPSK	36	20	16.02	16.08	15.90	17.2	0			
15	QPSK	36	58	16.02	16.07	15.98					
15	QPSK	75	0	16.07	16.11	16.08					
15	HQAM	1	0	15.98	16.09	15.89					
15	HQAM	1	37	15.94	16.08	15.95	17.2	0			
15	HQAM	1	74	15.94	16.04	16.07					
15	HQAM	36	0	15.92	15.97	15.93					
15	HQAM	36	20	15.93	16.04	16.03					
15	HQAM	36	58	16.01	16.09	15.95	17.2	0			
15	HQAM	75	0	15.87	16.07	16.09					
15	HQAM	1	27	16.07	16.17	16.11					
15	HQAM	1	74	15.95	15.95	15.90					
15	HQAM	36	0	16.03	16.12	15.98	17.2	0			
15	84QAM	36	20	15.85	16.09	15.88					
15	84QAM	36	58	16.07	16.07	15.97					
15	84QAM	75	0	15.91	16.02	15.85					
15	256QAM	1	0	15.92	15.98	15.85	17.2	0			
15	256QAM	1	37	15.95	16.02	15.95					
15	256QAM	1	74	15.87	16.01	15.92					
15	256QAM	36	0	15.92	16.03	15.90					
15	256QAM	36	20	15.98	16.09	15.88	17.2	0			
15	256QAM	36	58	15.91	16.03	15.85					
15	256QAM	36	75	0	16.12	16.14					
15	256QAM	75	0	16.12	16.14	16.00					
Channel				37600	38050	38200					
Frequency (MHz)				2571.5	2595.5	2617.5					
10	QPSK	1	0	16.03	16.21	16.16	17.2	0			
10	QPSK	1	25	15.98	16.18	16.15					
10	QPSK	1	49	15.91	15.94	15.84					
10	QPSK	25	0	15.93	16.02	15.96					
10	QPSK	25	12	15.98	16.11	15.88	17.2	0			
10	QPSK	25	25	15.96	16.06	15.99					
10	QPSK	50	0	16.04	16.07	16.13					
10	HQAM	1	0	16.03	16.12	15.90					
10	HQAM	1	25	15.91	15.93	15.80	17.2	0			
10	HQAM	1	49	16.00	16.10	16.08					
10	HQAM	25	0	16.02	16.02	15.97					
10	HQAM	25	12	16.04	16.06	16.01					
10	HQAM	25	25	15.98	16.18	15.95	17.2	0			
10	HQAM	50	0	15.97	16.08	15.89					
10	HQAM	25	0	16.04	16.00	16.14					
10	HQAM	1	25	15.91	15.94	15.84					
10	84QAM	1	49	15.94	15.93	15.92	17.2	0			
10	84QAM	25	0	16.03	16.12	15.98					
10	84QAM	25	12	15.92	15.97	15.98					
10	84QAM	25	25	16.08	16.06	15.98					
10	84QAM	50	0	15.93	16.08	15.88	17.2	0			
10	256QAM	1	0	15.88	16.02	15.84					
10	256QAM	1	25	15.95	16.13	15.99					
10	256QAM	1	49	15.89	16.05	15.98					
10	256QAM	25	0	15.94	16.05	15.82	17.2	0			
10	256QAM	25	12	15.98	15.98	15.82					
10	256QAM	25	25	15.91	15.94	15.84					
10	256QAM	50	0	16.14	16.15	16.07					
Channel				37775	38050	38225					
Frequency (MHz)				2577.5	2595.5	2617.5					
5	QPSK	1	0	15.95	16.16	16.07	17.2	0			
5	QPSK	1	12	15.93	16.11	16.02					
5	QPSK	1	24	16.03	15.99	15.92					
5	QPSK	12	0	15.94	16.10	16.08					
5	QPSK	12	7	15.97	16.00	15.91	17.2	0			
5	QPSK	12	13	15.84	16.03	15.95					
5	QPSK	25	0	16.04	16.11	16.09					
5	HQAM	1	0	16.08	16.05	16.00					
5	HQAM	1	12	15.98	15.98	15.85	17.2	0			
5	HQAM	1	24	15.95	16.00	16.09					
5	HQAM	12	0	15.93	15.94	15.85					
5	HQAM	12	7	16.01	16.06	16.00					
5	HQAM	12	13	15.91	16.09	16.02	17.2	0			
5	HQAM	25	0	16.01	16.04	15.97					
5	HQAM	1	0	16.09	16.09	16.04					
5	HQAM	1	12	15.95	16.02	15.97					
5	HQAM	12	13	15.96	16.08	15.87	17.2	0			
5	HQAM	25	0	15.95	16.13	15.93					
5	256QAM	1	0	15.90	16.00	15.92					
5	256QAM	1	12	15.93	16.05	16.09					
5	256QAM	1	24	15.80	15.90	15.83	17.2	0			
5	256QAM	12	0	15.98	16.05	15.82					
5	256QAM	12	7	15.85	15.90	15.88					
5	256QAM	12	13	15.93	15.94	15.90					
5	256QAM	25	0	16.15	16.20	16.00	17.2	0			
5	256QAM	25	0	16.15	16.20	16.00					

Band 38 HPUE Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)	
Channel				37850	38050	38150			
Frequency (MHz)				2599.5	2609.5	2619.5			
20	QPSK	1	0	17.67	17.73	17.66	18.8	0	
20	QPSK	1	49	17.62	17.64	17.61			
20	QPSK	50	98	17.60	17.71	17.68			
20	QPSK	50	24	17.61	17.67	17.62			
20	QPSK	50	98	17.56	17.62	17.58	18.8	0	
20	QPSK	100	0	17.54	17.70	17.65			
20	16QAM	1	0	17.71	17.73	17.65			
20	16QAM	1	49	17.62	17.64	17.61	18.8	0	
20	16QAM	1	98	17.60	17.73	17.68			
20	16QAM	50	0	17.53	17.68	17.55			
20	16QAM	50	24	17.54	17.67	17.59			
20	16QAM	50	98	17.57	17.70	17.60	18.8	0	
20	16QAM	100	0	17.57	17.70	17.56			
20	16QAM	100	50	17.55	17.66	17.56			
20	64QAM	1	0	17.60	17.74	17.66	18.8	0	
20	64QAM	1	49	17.55	17.66	17.58			
20	64QAM	50	0	17.55	17.55	17.48			
20	64QAM	50	24	17.60	17.71	17.58			
20	64QAM	50	98	17.58	17.73	17.65	18.8	0	
20	64QAM	100	0	17.61	17.73	17.60			
20	64QAM	100	50	17.56	17.69	17.56			
20	256QAM	1	0	17.56	17.69	17.56	18.8	0	
20	256QAM	1	49	17.62	17.66	17.59			
20	256QAM	50	0	17.52	17.61	17.54			
20	256QAM	50	24	17.56	17.65	17.57			
20	256QAM	50	98	17.55	17.65	17.57	18.8	0	
20	256QAM	100	0	17.57	17.67	17.59			
20	256QAM	100	50	17.51	17.62	17.53			
Channel				37825	38025	38175			
Frequency (MHz)				2612.5	2622.5	2637.5			
15	QPSK	1	0	17.72	17.72	17.61	18.8	0	
15	QPSK	1	37	17.38	17.55	17.58			
15	QPSK	1	74	17.56	17.61	17.59			
15	QPSK	36	0	17.45	17.51	17.54			
15	QPSK	36	37	17.60	17.52	17.50	18.8	0	
15	QPSK	36	74	17.56	17.56	17.56			
15	QPSK	72	0	17.37	17.53	17.50			
15	16QAM	1	0	17.60	17.63	17.53	18.8	0	
15	16QAM	1	37	17.44	17.58	17.53			
15	16QAM	1	74	17.51	17.51	17.50			
15	16QAM	36	0	17.46	17.62	17.55			
15	16QAM	36	37	17.48	17.46	17.41	18.8	0	
15	16QAM	36	74	17.49	17.53	17.49			
15	16QAM	72	0	17.50	17.56	17.50			
15	64QAM	1	0	17.51	17.59	17.51	18.8	0	
15	64QAM	1	37	17.45	17.67	17.51			
15	64QAM	1	74	17.45	17.62	17.52			
15	64QAM	36	0	17.39	17.62	17.41			
15	64QAM	36	25	17.62	17.63	17.44	18.8	0	
15	64QAM	36	74	17.55	17.62	17.42			
15	64QAM	72	0	17.55	17.70	17.64			
15	256QAM	1	0	17.50	17.56	17.50	18.8	0	
15	256QAM	1	37	17.40	17.64	17.48			
15	256QAM	1	74	17.48	17.54	17.45			
15	256QAM	36	0	17.55	17.56	17.46			
15	256QAM	36	25	17.52	17.53	17.50	18.8	0	
15	256QAM	36	74	17.52	17.52	17.47			
15	256QAM	72	0	17.39	17.47	17.38			
Channel				37800	38000	38200			
Frequency (MHz)				2622.5	2632.5	2647.5			
10	QPSK	1	0	17.52	17.60	17.51	18.8	0	
10	QPSK	1	25	17.43	17.60	17.51			
10	QPSK	25	50	17.52	17.59	17.51			
10	QPSK	25	75	17.35	17.59	17.51			
10	QPSK	25	12	17.49	17.58	17.58	18.8	0	
10	QPSK	25	25	17.49	17.57	17.57			
10	QPSK	50	0	17.45	17.64	17.50			
10	16QAM	1	0	17.67	17.63	17.57	18.8	0	
10	16QAM	1	25	17.39	17.57	17.51			
10	16QAM	1	49	17.44	17.47	17.46			
10	16QAM	25	0	17.44	17.55	17.49			
10	16QAM	25	12	17.41	17.59	17.48	18.8	0	
10	16QAM	25	25	17.48	17.68	17.68			
10	16QAM	50	0	17.58	17.64	17.59			
10	64QAM	1	0	17.40	17.62	17.53	18.8	0	
10	64QAM	1	25	17.38	17.64	17.57			
10	64QAM	25	0	17.39	17.62	17.37			
10	64QAM	25	12	17.51	17.64	17.50			
10	64QAM	25	25	17.39	17.68	17.68	18.8	0	
10	64QAM	50	0	17.45	17.64	17.63			
10	64QAM	50	12	17.46	17.61	17.59			
10	256QAM	1	0	17.46	17.58	17.47	18.8	0	
10	256QAM	1	49	17.49	17.59	17.43			
10	256QAM	1	98	17.40	17.58	17.45			
10	256QAM	25	12	17.49	17.54	17.46			
10	256QAM	25	25	17.34	17.56	17.38	18.8	0	
10	256QAM	25	50	17.39	17.64	17.42			
10	256QAM	50	0	17.37	17.62	17.35			
Channel				37775	38075	38225			
Frequency (MHz)				2625.5	2637.5	2647.5			
5	QPSK	1	0	17.46	17.63	17.57	18.8	0	
5	QPSK	1	12	17.49	17.49	17.49			
5	QPSK	24	0	17.63	17.61	17.48			
5	QPSK	12	0	17.35	17.53	17.48			
5	QPSK	12	7	17.46	17.56	17.66	18.8	0	
5	QPSK	12	19	17.39	17.57	17.48			
5	QPSK	25	0	17.38	17.59	17.49			
5	16QAM	1	0	17.68	17.60	17.57	18.8	0	
5	16QAM	1	12	17.42	17.59	17.48			
5	16QAM	1	24	17.44	17.57	17.51			
5	16QAM	12	0	17.40	17.57	17.51			
5	16QAM	12	7	17.38	17.50	17.40	18.8	0	
5	16QAM	12	13	17.44	17.61	17.68			
5	16QAM	1	0	17.62	17.52	17.48			
5	64QAM	1	0	17.49	17.60	17.57	18.8	0	
5	64QAM	1	12	17.47	17.60	17.49			
5	64QAM	1	24	17.49	17.71	17.48			
5	64QAM	12	13	17.50	17.71	17.52			
5	64QAM	25	0	17.60	17.63	17.50	18.8	0	
5	64QAM	25	12	17.43	17.59	17.48			
5	256QAM	1	12	17.38	17.52	17.40			
5	256QAM	1	24	17.55	17.52	17.46	18.8	0	
5	256QAM	1	36	17.50	17.65	17.52			
5	256QAM	12	7	17.51	17.50	17.40			
5	256QAM	12	13	17.36	17.53	17.48			

Band 41 Ant1																
RW [MHz]	Modulation	RB Size	RB Offset	Power Level Ch / Freq	Power Level Middle Ch / Freq	Power Level Middle Ch / Freq	Power Level Middle Ch / Freq	Power Level Middle Ch / Freq	Turn-up limit (dBm)	MPR (dB)						
Channel																
Frequency (MHz)				39792	40188	40620	41056	41496								
20	QPSK	1	0	16.16	16.27	16.32	16.20	16.20	17.2	0						
20	QPSK	1	40	16.05	16.19	16.22	16.18	16.16								
20	QPSK	1	80	16.07	16.20	16.23	16.14	16.07								
20	QPSK	50	0	16.12	16.13	16.24	16.22	16.20								
20	QPSK	50	24	16.15	16.12	16.18	16.03	16.11								
20	QPSK	100	0	16.15	16.14	16.17	16.08	16.15	17.2	0						
20	QPSK	100	0	16.19	16.07	16.22	16.16	16.06								
20	16QAM	1	0	16.13	16.08	16.22	16.19	16.19								
20	16QAM	1	40	16.12	16.10	16.18	16.15	16.14								
20	16QAM	1	80	16.13	16.13	16.16	16.02	16.12								
20	16QAM	50	0	16.23	16.26	16.28	16.15	16.12	17.2	0						
20	16QAM	50	24	16.09	16.12	16.21	16.10	16.10								
20	16QAM	50	50	16.15	16.22	16.28	16.21	16.19								
20	16QAM	100	0	16.12	16.09	16.15	16.04	16.12								
20	16QAM	100	0	16.14	16.05	16.22	16.13	16.15								
20	16QAM	1	40	16.04	16.09	16.18	16.15	16.14	17.2	0						
20	16QAM	1	80	16.15	16.08	16.20	16.14	16.11								
20	16QAM	50	0	16.09	16.12	16.21	16.10	16.10								
20	16QAM	50	24	16.10	16.11	16.27	16.21	16.11								
20	16QAM	50	50	16.04	16.05	16.17	16.01	16.11								
20	16QAM	100	0	16.19	16.20	16.22	16.18	16.09	17.2	0						
20	256QAM	1	0	16.03	16.07	16.15	15.99	16.05								
20	256QAM	1	40	16.14	16.27	16.29	16.23	16.16								
20	256QAM	1	80	16.17	16.17	16.27	16.25	16.13								
20	256QAM	50	0	16.05	16.26	16.28	16.12	16.05								
20	256QAM	50	24	16.23	16.12	16.26	16.12	16.05	17.2	0						
20	256QAM	50	50	16.10	16.14	16.27	16.20	16.14								
20	256QAM	100	0	16.02	16.25	16.29	16.15	16.08								
Channel																
Frequency (MHz)				39792	40173	40620	41056	41515	Turn-up limit (dBm)	MPR (dB)						
				2302.5	2344.8	2393	2437.8	2492.5								
16	QPSK	1	37	15.93	16.04	16.05	15.96	16.09	17	0						
16	QPSK	1	74	15.96	16.08	16.20	15.99	16.03								
16	QPSK	36	0	16.02	16.07	16.14	16.07	15.93								
16	QPSK	36	20	16.05	16.08	16.05	15.98	16.06								
16	QPSK	75	0	16.05	16.13	16.07	16.03	16.04								
16	QPSK	75	0	16.05	16.06	16.07	15.99	15.97	17.2	0						
16	16QAM	1	0	16.06	15.91	16.14	16.15	16.03								
16	16QAM	1	74	16.04	16.07	16.04	16.06	16.04								
16	16QAM	1	74	16.11	16.08	16.08	15.91	15.98								
16	16QAM	36	0	16.14	16.11	16.18	16.03	15.96								
16	16QAM	36	39	16.06	16.06	16.13	16.01	16.09	17.2	0						
16	16QAM	36	39	16.02	16.10	16.19	16.18	16.10								
16	16QAM	75	0	16.00	16.02	16.05	15.95	15.97								
16	16QAM	1	0	15.98	16.07	16.14	16.03	16.12								
16	16QAM	1	37	15.97	15.96	16.03	16.04	16.06								
16	16QAM	1	74	16.05	16.03	16.08	16.11	15.97	17.2	0						
16	16QAM	36	0	15.95	15.95	16.07	16.03	16.03								
16	16QAM	36	20	16.10	15.97	16.11	16.15	16.01								
16	16QAM	75	0	16.05	16.07	16.17	16.10	16.05								
16	256QAM	1	0	15.99	16.04	16.09	15.95	15.95								
16	256QAM	1	37	16.02	16.24	16.21	16.07	16.05	17.2	0						
16	256QAM	1	74	16.00	16.06	16.22	16.19	15.96								
16	256QAM	36	0	16.15	16.23	16.20	16.12	16.06								
16	256QAM	36	39	16.17	15.96	16.23	16.08	16.05								
16	256QAM	36	39	15.94	16.00	16.10	16.13	16.09								
16	256QAM	75	0	16.13	16.10	16.26	16.06	16.22	17.2	0						
Channel																
Frequency (MHz)				39792	40160	40620	41056	41560					Turn-up limit (dBm)	MPR (dB)		
				2301	2344	2393	2437	2492								
16	QPSK	1	0	16.04	16.14	16.18	16.16	16.16	17.20	0						
16	QPSK	1	25	15.99	16.13	16.13	16.04	16.07								
16	QPSK	1	49	15.90	16.11	16.20	15.98	16.02								
16	QPSK	25	0	16.04	16.06	16.10	16.15	15.92								
16	QPSK	25	12	15.99	15.95	16.16	15.96	16.04								
16	QPSK	25	25	16.07	16.06	16.03	15.93	15.93	17.2	0						
16	QPSK	50	0	16.13	16.01	16.06	16.08	16.12								
16	16QAM	1	0	16.03	16.06	16.15	16.03	16.12								
16	16QAM	1	25	16.08	16.07	16.14	15.97	16.01								
16	16QAM	1	49	15.98	16.06	16.01	15.90	16.05								
16	16QAM	25	0	16.18	16.14	16.14	16.03	16.03	17.2	0						
16	16QAM	25	12	16.06	16.05	16.12	16.07	15.93								
16	16QAM	25	25	15.99	16.08	16.22	16.08	16.03								
16	16QAM	50	0	16.09	15.91	16.08	15.90	16.10								
16	16QAM	1	25	15.93	16.03	16.11	16.10	16.05								
16	16QAM	1	49	16.08	16.02	16.07	16.11	15.95	17.2	0						
16	16QAM	25	0	15.93	16.06	16.10	16.00	16.14								
16	16QAM	25	12	16.11	15.96	16.15	16.08	16.02								
16	16QAM	25	25	15.94	15.98	16.10	15.94	16.02								
16	16QAM	50	0	16.13	16.13	16.19	16.07	15.93								
16	256QAM	1	0	15.87	16.01	16.09	15.92	15.97	17.2	0						
16	256QAM	1	25	16.06	16.14	16.20	16.15	16.10								
16	256QAM	1	49	16.10	16.13	16.13	16.10	16.01								
16	256QAM	25	0	16.05	16.17	16.17	16.12	16.17								
16	256QAM	25	12	16.11	16.04	16.10	16.01	16.03								
16	256QAM	25	25	15.98	15.90	16.23	16.10	16.05	17.2	0						
16	256QAM	50	0	16.09	16.09	16.25	15.96	16.13								
Channel																
Frequency (MHz)				39978	40140	40620	41093	41568	Turn-up limit (dBm)	MPR (dB)						
				2506	2548	2593	2639	2685								
5	QPSK	1	0	16.06	16.10	16.25	16.08	16.10	17.20	0						
5	QPSK	1	12	15.99	16.00	16.00	16.00	16.05								
5	QPSK	1	24	15.97	16.00	16.15	16.04	15.93								
5	QPSK	12	0	15.96	16.10	16.18	16.08	15.94								
5	QPSK	12	7	15.95	16.07	16.08	15.92	15.95	17.2	0						
5	QPSK	12	12	16.08	16.04	16.07	15.98	15.88								
5	QPSK	25	0	16.18	15.93	16.12	16.00	16.01								
5	QPSK	25	0	15.99	15.96	16.19	16.05	16.09								
5	QPSK	15	12	16.04	16.04	16.03	15.86	16.02								
5	16QAM	1	24	16.03	16.03	16.04	15.96	16.10	17.2	0						
5	16QAM	1	24	16.17	16.16	16.17	16.12	16.09								
5	16QAM	12	12	16.05	15.98	16.09	16.02	15.90								
5	16QAM	12	13	16.07	16.17	16.26	16.07	16.08								
5	16QAM	15	0	16.01	16.01	16.04	16.00	16.00								
5	16QAM	1	12	16.09	16.05	16.10	16.00	15.99	17.2	0						
5	16QAM	1	12	16.09	16.07	16.07	16.07	15.99								
5	16QAM	12	13	16.03	16.03	16.04	15.98	16.02								
5	16QAM	1	25	16.07	16.10	16.22	16.11	15.98								
5	256QAM	1	12	16.02	16.02	16.11	16.02	15.98								
5	256QAM	1	12	16.12	16.20	16.19	16.07	16.08	17.2	0						
5	256QAM	1	24	16.10	16.02	16.19	16.19	15.99								
5	256QAM	12	12	16.19	16.19	16.17	16.17	16.07								
5	256QAM	12	7	16.19	15.86	16.22	16.07	16.02								
5	256QAM	25	0	15.93	16.00	16.15	16.16	16.04								

GSM1200 AUC										
Cell Type	Base Average Power (dBm)				Time-up	Frame Average Power (dBm)				Time-up
Tx Channel	812	861	810	Limit	812	861	810	Limit		
Frequency (MHz)	1800.2	1800	1800.8	(dBm)	1800.2	1800	1800.8	(dBm)		
OPNS 1 Tx Min	26.68	26.69	26.57	27.26	17.48	17.69	17.57	18.26		
OPNS 3 Tx Min	27.32	27.59	27.37	28.26	18.92	19.29	18.97	19.26		
OPNS 5 Tx Min	27.72	27.75	27.73	28.55	17.48	17.69	17.47	18.24		
EDGE 1 Tx Min	20.81	20.61	20.84	21.26	17.61	17.61	17.64	18.26		
EDGE 3 Tx Min	23.15	23.14	23.11	23.69	14.15	14.14	14.11	16.69		
EDGE 2 Tx Min	21.67	21.63	21.56	23.69	15.67	15.63	15.69	17.26		
EDGE 4 Tx Min	20.03	20.02	20.01	22.69	15.77	15.76	15.75	17.74		
EDGE 6 Tx Min	18.01	18.02	18.01	20.69	15.01	15.03	15.01	17.69		
WCDMA II AUC										
Band	WCDMA II				Time-up	WCDMA IV AUC				Time-up
Tx Channel	5862	5860	5858	Limit	5812	5811	5813	Limit		
Rx Channel	5862	5860	5858	(dBm)	5812	5808	5798	(dBm)		
Frequency (MHz)	1824	1824	1824	20.50	1812	1812	1812	20.50		
SOPP Rel 99	18.55	18.58	18.56	20.50	18.12	18.12	18.12	20.50		
SOPP Rel 99	18.63	18.71	18.64	20.50	18.39	18.64	18.31	20.50		
SOPP Rel 6	18.37	18.57	18.38	19.50	18.38	18.65	18.25	19.50		
SOPP Rel 6	18.82	18.39	18.37	19.50	18.59	18.52	18.33	19.50		
SOPP Rel 6	18.50	18.70	17.87	19.40	17.65	18.70	17.62	19.50		
SOPP Rel 6	18.07	17.69	17.84	19.40	18.02	18.10	17.95	19.50		
SOPP Rel 6	DC-HSPA Subcar-1	18.77	18.44	18.47	19.00	18.68	18.59	18.31	19.50	
SOPP Rel 6	DC-HSPA Subcar-2	18.38	18.50	18.37	19.00	18.42	18.60	18.31	19.50	
SOPP Rel 6	DC-HSPA Subcar-3	18.15	18.05	17.85	19.40	17.85	18.08	17.78	19.50	
SOPP Rel 6	DC-HSPA Subcar-4	18.05	17.85	17.70	19.40	17.60	17.85	17.52	19.50	
SOPP Rel 6	HSPA Subcar-1	19.47	19.38	19.37	19.50	18.12	18.47	18.17	19.50	
SOPP Rel 6	HSPA Subcar-2	17.21	17.40	17.59	17.50	17.18	17.40	17.25	17.50	
SOPP Rel 6	HSPA Subcar-3	18.45	18.47	18.23	18.50	18.47	18.50	18.17	18.50	
SOPP Rel 6	HSPA Subcar-4	17.50	17.47	17.46	17.50	17.23	17.48	17.40	17.50	
SOPP Rel 6	HSPA Subcar-5	19.08	19.00	18.83	19.50	19.28	19.41	19.28	19.50	



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)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.60	18.62	18.68	20.1	0		
20	QPSK	1	49	18.67	18.67	18.67				
20	QPSK	1	99	18.59	18.73	18.68				
20	QPSK	50	0	18.69	18.62	18.67				
20	QPSK	50	24	18.71	18.71	18.63	20.1	0		
20	QPSK	50	50	18.60	18.74	18.69				
20	16QAM	100	0	18.70	18.64	18.60				
20	16QAM	1	0	18.71	18.71	18.66				
20	16QAM	1	49	18.71	18.70	18.69	20.1	0		
20	16QAM	1	99	18.65	18.74	18.66				
20	16QAM	50	0	18.67	18.70	18.68				
20	16QAM	50	24	18.68	18.80	18.70				
20	16QAM	50	50	18.64	18.76	18.64	20.1	0		
20	16QAM	100	0	18.70	18.75	18.63				
20	84QAM	1	0	18.63	18.77	18.72				
20	84QAM	1	49	18.69	18.84	18.76				
20	84QAM	50	0	18.69	18.80	18.69	20.1	0		
20	84QAM	50	24	18.80	18.94	18.89				
20	84QAM	100	0	18.80	18.74	18.77				
20	84QAM	100	0	18.80	18.74	18.67				
20	256QAM	1	49	17.76	17.76	17.78	19	1.1		
20	256QAM	1	99	17.66	17.75	17.67				
20	256QAM	50	0	17.66	17.66	17.67				
20	256QAM	50	24	17.64	17.61	17.61				
20	256QAM	50	50	17.65	17.71	17.61	19	1.1		
20	256QAM	100	0	17.54	17.60	17.61				
Channel				1867.5	1869.0	1919.0	Time-up limit (sec)	MPR (dB)		
Frequency (MHz)										
15	QPSK	1	0	18.66	18.78	18.76	20.1	0		
15	QPSK	1	25	18.62	18.76	18.69				
15	QPSK	1	74	18.50	18.61	18.50				
15	QPSK	36	0	18.47	18.66	18.59				
15	QPSK	36	25	18.48	18.64	18.63	20.1	0		
15	QPSK	36	39	18.59	18.50	18.52				
15	QPSK	75	0	18.53	18.67	18.61				
15	16QAM	1	0	18.62	18.64	18.61				
15	16QAM	1	37	18.58	18.68	18.57	20.1	0		
15	16QAM	1	74	18.48	18.57	18.48				
15	16QAM	36	0	18.66	18.63	18.63				
15	16QAM	36	25	18.61	18.65	18.63				
15	16QAM	75	0	18.58	18.67	18.65	20.1	0		
15	84QAM	1	0	18.47	18.69	18.67				
15	84QAM	1	37	18.53	18.65	18.60				
15	84QAM	1	74	18.56	18.71	18.56				
15	84QAM	36	0	18.42	18.58	18.51	20.1	0		
15	84QAM	36	25	18.54	18.62	18.54				
15	84QAM	36	39	18.55	18.50	18.52				
15	84QAM	75	0	18.68	18.67	18.53				
15	256QAM	1	49	17.65	17.65	17.66	19	1.1		
15	256QAM	1	99	17.69	17.70	17.72				
15	256QAM	1	74	17.60	17.68	17.58				
15	256QAM	50	0	17.61	17.64	17.66				
15	256QAM	50	24	17.59	17.50	17.42	19	1.1		
15	256QAM	50	39	17.62	17.66	17.55				
15	256QAM	75	0	17.46	17.46	17.43				
Channel				1869.0	1869.0	1919.0	Time-up limit (sec)	MPR (dB)		
Frequency (MHz)										
10	QPSK	1	0	18.63	18.78	18.76	20.1	0		
10	QPSK	1	25	18.63	18.71	18.56				
10	QPSK	1	49	18.54	18.66	18.59				
10	QPSK	25	0	18.62	18.62	18.62				
10	QPSK	25	12	18.63	18.68	18.51	20.1	0		
10	QPSK	25	25	18.47	18.65	18.62				
10	QPSK	25	39	18.59	18.50	18.52				
10	16QAM	1	0	18.56	18.65	18.62				
10	16QAM	1	25	18.64	18.64	18.58	20.1	0		
10	16QAM	1	49	18.57	18.73	18.58				
10	16QAM	25	0	18.64	18.74	18.61				
10	16QAM	25	12	18.65	18.73	18.58				
10	16QAM	25	12	18.67	18.73	18.58	20.1	0		
10	16QAM	25	25	18.67	18.73	18.58				
10	16QAM	50	0	18.56	18.61	18.59				
10	84QAM	1	0	18.49	18.67	18.59				
10	84QAM	1	24	18.50	18.60	18.50	20.1	0		
10	84QAM	1	49	18.61	18.77	18.59				
10	84QAM	25	0	18.51	18.70	18.59				
10	84QAM	25	12	18.75	18.67	18.56				
10	84QAM	25	25	18.59	18.67	18.65	20.1	0		
10	84QAM	50	0	18.47	18.67	18.59				
10	256QAM	1	49	17.55	17.68	17.68				
10	256QAM	1	25	17.69	17.67	17.66				
10	256QAM	1	49	17.60	17.70	17.54	19	1.1		
10	256QAM	25	0	17.66	17.61	17.61				
10	256QAM	25	12	17.45	17.50	17.37				
10	256QAM	25	25	17.62	17.61	17.53				
10	256QAM	50	0	17.43	17.48	17.38	19	1.1		
Channel				1869.0	1869.0	1919.0	Time-up limit (sec)	MPR (dB)		
Frequency (MHz)										
5	QPSK	1	0	18.74	18.78	18.76	20.1	0		
5	QPSK	1	12	18.62	18.66	18.61				
5	QPSK	1	24	18.63	18.60	18.63				
5	QPSK	12	0	18.65	18.68	18.61				
5	QPSK	12	7	18.60	18.66	18.50	20.1	0		
5	QPSK	12	13	18.65	18.67	18.61				
5	QPSK	20	0	18.64	18.73	18.76				
5	16QAM	1	0	18.65	18.67	18.62				
5	16QAM	1	12	18.60	18.69	18.65	20.1	0		
5	16QAM	1	24	18.65	18.75	18.62				
5	16QAM	12	0	18.68	18.73	18.66				
5	16QAM	12	7	18.61	18.72	18.63				
5	16QAM	12	13	18.66	18.67	18.63	20.1	0		
5	16QAM	25	0	18.66	18.64	18.56				
5	84QAM	1	0	18.54	18.63	18.61				
5	84QAM	1	12	18.63	18.61	18.73				
5	84QAM	1	24	18.60	18.65	18.56	20.1	0		
5	84QAM	12	0	18.59	18.64	18.60				
5	84QAM	12	7	18.60	18.74	18.63				
5	84QAM	12	13	18.61	18.67	18.60				
5	84QAM	20	0	18.53	18.66	18.56	20.1	0		
5	256QAM	1	0	17.47	17.60	17.56				
5	256QAM	1	12	17.68	17.71	17.71				
5	256QAM	1	24	17.56	17.66	17.63				
5	256QAM	12	0	17.49	17.50	17.43	19	1.1		
5	256QAM	12	7	17.50	17.47	17.41				
5	256QAM	12	13	17.50	17.68	17.54				
5	256QAM	25	0	17.49	17.50		19	1.1		
Channel				1869.5	1869.0	1909.0	Time-up limit (sec)	MPR (dB)		
Frequency (MHz)										
3	QPSK	1	0	18.73	18.77	18.74	20.1	0		
3	QPSK	1	8	18.59	18.68	18.62				
3	QPSK	1	16	18.62	18.66	18.61				
3	QPSK	8	0	18.66	18.70	18.54				
3	QPSK	8	4	18.59	18.62	18.50	20.1	0		
3	QPSK	8	12	18.67	18.69	18.64				
3	QPSK	15	0	18.70	18.74	18.71				
3	16QAM	1	0	18.62	18.71	18.64				
3	16QAM	1	8	18.62	18.69	18.64	20.1	0		
3	16QAM	1	16	18.62	18.68	18.64				
3	16QAM	15	0	18.65	18.62	18.53				
3	16QAM	15	8	18.62	18.67	18.61				
3	16QAM	15	8	18.62	18.69	18.64	20.1	0		
3	16QAM	8	7	18.53	18.66	18.51				
3	84QAM	1	0	18.54	18.73	18.63				
3	84QAM	1	8	18.59	18.70	18.71				
3	84QAM	1	16	18.56	18.70	18.67	20.1	0		
3	84QAM	8	7	18.53	18.72	18.68				
3	84QAM	8	13	18.60	18.67	18.67				
3	84QAM	15	0	18.60	18.65	18.52				
3	256QAM	1	0	17.65	17.65	17.63	19	1.1		
3	256QAM	1	14	17.68	17.68	17.60				
3	256QAM	8	0	17.56	17.57	17.44				
3	256QAM	8	7	17.52	17.59	17.47				
3	256QAM	15	0	17.40	17.46	17.46	19	1.1		
Channel				1869.7	1869.0	1909.3	Time-up limit (sec)	MPR (dB)		
Frequency (MHz)										
1.4	QPSK	1	0	18.73	18.66	18.62	20.1	0		
1.4	QPSK	1	8	18.59	18.72	18.63				
1.4	QPSK	1	16	18.62	18.66	18.61				
1.4	QPSK	8	0	18.66	18.70	18.54				
1.4	QPSK	8	4	18.59	18.62	18.50	20.1	0		
1.4	QPSK	8	12	18.67	18.69	18.64				
1.4	QPSK	15	0	18.70	18.74	18.71				
1.4	16QAM	1	0	18.62	18.71	18.64				
1.4	16QAM	1	8	18.62	18.69	18.64	20.1	0		
1.4	16QAM	1	16	18.62	18.68	18.64				
1.4	16QAM	15	0	18.65	18.62	18.53				
1.4	16QAM	15	8	18.62	18.67	18.61				
1.4	16QAM	15	8	18.62	18.69	18.64	20.1	0		
1.4	16QAM	8	7	18.53	18.66	18.51				
1.4	84QAM	1	0	18.54	18.73	18.63				
1.4	84QAM	1	8	18.59	18.70	18.71				
1.4	84QAM	1	16	18.56	18.70	18.67	20.1	0		
1.4	84QAM	8	7	18.53	18.72	18.68				
1.4	84QAM	8	13	18.60	18.67	18.67				
1.4	84QAM	15	0	18.60	18.65	18.52				
1.4	256QAM	1	0	17.65	17.65	17.63	19	1.1		
1.4	256QAM	1	14	17.68	17.68	17.60				
1.4	256QAM	8	0	17.56	17.57	17.44				
1.4	256QAM	8	7	17.52	17.59	17.47				
1.4	256QAM	15	0	17.40	17.46	17.46	19	1.1		
Channel				1869.7	1869.0	1909.3	Time-up limit (sec)	MPR (dB)		
Frequency (MHz)										
1.4	QPSK	1	0	18.73	18.66	18.62	20.1	0		
1.4	QPSK	1	8	18.59	18.					

Band 25 Ant2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 2645	Power Middle Ch / Freq. 2648	Power High Ch / Freq. 2650	Time-up (ms)	TPR (dB)						
Channel														
20	QPSK	1	0	18.89	18.94	18.78	20.1	0	20.4	0				
20	QPSK	1	49	18.86	18.78	18.81								
20	QPSK	1	99	18.76	18.82	18.76								
20	QPSK	50	0	18.76	18.82	18.75								
20	QPSK	50	24	18.78	18.82	18.79								
20	QPSK	50	50	18.81	18.89	18.76	20.1	0	20.4	0				
20	QPSK	100	0	18.87	18.83	18.72								
20	16QAM	1	0	18.76	18.81	18.82								
20	16QAM	1	49	18.84	18.92	18.78								
20	16QAM	1	99	18.79	18.87	18.77								
20	16QAM	50	0	18.73	18.82	18.74	20.1	0	20.4	0				
20	16QAM	50	24	18.72	18.77	18.82								
20	16QAM	50	50	18.80	18.87	18.86								
20	16QAM	100	0	18.77	18.82	18.78								
20	16QAM	1	0	18.71	18.86	18.73								
20	64QAM	1	49	18.79	18.83	18.75	20.1	0	20.4	0				
20	64QAM	1	99	18.78	18.90	18.83								
20	64QAM	50	0	18.86	18.78	18.82								
20	64QAM	50	24	18.88	18.76	18.82								
20	64QAM	50	50	18.73	18.89	18.85								
20	64QAM	100	0	18.72	18.87	18.73	20.1	0	20.4	0				
20	256QAM	1	0	17.64	17.77	17.62								
20	256QAM	1	49	17.58	17.62	17.53								
20	256QAM	1	99	17.65	17.74	17.67								
20	256QAM	50	0	17.56	17.64	17.61								
20	256QAM	50	24	17.56	17.68	17.58	19	1.1	19	1.4				
20	256QAM	50	50	17.67	17.73	17.64								
20	256QAM	100	0	17.65	17.69	17.61								
Channel														
1807.5 1880 1907.5														
15	QPSK	1	0	18.77	18.92	18.73	20.1	0	20.4	0				
15	QPSK	1	37	18.84	18.86	18.81								
15	QPSK	1	74	18.72	18.86	18.83								
15	QPSK	36	0	18.73	18.74	18.81								
15	QPSK	36	20	18.70	18.86	18.71								
15	QPSK	36	39	18.70	18.81	18.84	20.1	0	20.4	0				
15	QPSK	75	0	18.71	18.73	18.80								
15	16QAM	1	0	18.71	18.75	18.73								
15	16QAM	1	37	18.79	18.79	18.82								
15	16QAM	36	0	18.67	18.73	18.79								
15	16QAM	36	20	18.60	18.76	18.89	20.1	0	20.4	0				
15	16QAM	36	39	18.57	18.69	18.83								
15	16QAM	75	0	18.69	18.72	18.71								
15	64QAM	1	0	18.88	18.72	18.88								
15	64QAM	1	37	18.87	18.76	18.83								
15	64QAM	1	74	18.71	18.82	18.74	20.1	0	20.4	0				
15	64QAM	36	0	18.71	18.82	18.74								
15	64QAM	36	20	18.88	18.78	18.88								
15	64QAM	36	39	18.90	18.87	18.81								
15	64QAM	75	0	18.89	18.81	18.84								
15	256QAM	1	0	17.53	17.66	17.54	19	1.1	19	1.4				
15	256QAM	1	37	17.49	17.54	17.41								
15	256QAM	1	74	17.63	17.66	17.63								
15	256QAM	36	0	17.60	17.63	17.48								
15	256QAM	36	20	17.47	17.53	17.48								
15	256QAM	36	39	17.67	17.69	17.59	19	1.1	19	1.4				
15	256QAM	75	0	17.61	17.68	17.58								
Channel														
2690 2694 2696														
10	QPSK	1	0	18.89	18.81	18.81	20.1	0	20.4	0				
10	QPSK	1	25	18.82	18.83	18.82								
10	QPSK	1	49	18.89	18.70	18.84								
10	QPSK	25	0	18.89	18.82	18.82								
10	QPSK	25	12	18.88	18.70	18.86								
10	QPSK	25	25	18.77	18.75	18.87	20.1	0	20.4	0				
10	QPSK	50	0	18.83	18.78	18.84								
10	16QAM	1	0	18.71	18.70	18.89								
10	16QAM	1	25	18.72	18.87	18.86								
10	16QAM	1	49	18.74	18.82	18.74								
10	16QAM	25	0	18.89	18.89	18.89	20.1	0	20.4	0				
10	16QAM	25	12	18.88	18.86	18.81								
10	16QAM	25	25	18.89	18.86	18.86								
10	16QAM	50	0	18.72	18.72	18.89								
10	64QAM	1	0	18.88	18.76	18.82								
10	64QAM	1	25	18.84	18.72	18.82	20.1	0	20.4	0				
10	64QAM	1	49	18.82	18.78	18.86								
10	64QAM	25	0	18.83	18.72	18.88								
10	64QAM	25	12	18.80	18.72	18.88								
10	64QAM	25	25	18.71	18.78	18.82								
10	64QAM	50	0	18.84	18.81	18.81	20.1	0	20.4	0				
10	256QAM	1	0	17.68	17.73	17.48								
10	256QAM	1	25	17.48	17.59	17.48								
10	256QAM	1	49	17.56	17.62	17.52								
10	256QAM	25	0	17.58	17.62	17.51								
10	256QAM	25	12	17.49	17.59	17.50	19	1.1	19	1.4				
10	256QAM	25	25	17.64	17.60	17.58								
Channel														
2695 2694 2696														
5	QPSK	1	0	18.76	18.78	18.80					20.1	0	20.4	0
5	QPSK	1	12	18.55	18.85	18.55								
5	QPSK	1	24	18.88	18.88	18.81								
5	QPSK	12	0	18.73	18.78	18.86								
5	QPSK	12	7	18.86	18.80	18.72								
5	QPSK	12	13	18.75	18.81	18.82	20.1	0	20.4	0				
5	QPSK	25	0	18.81	18.86	18.86								
5	16QAM	1	0	18.85	18.72	18.71								
5	16QAM	1	12	18.72	18.80	18.74								
5	16QAM	1	24	18.70	18.82	18.74								
5	16QAM	12	0	18.87	18.72	18.82	20.1	0	20.4	0				
5	16QAM	12	7	18.80	18.81	18.86								
5	16QAM	12	13	18.84	18.71	18.75								
5	64QAM	1	0	18.78	18.74	18.74								
5	64QAM	1	12	18.86	18.87	18.87								
5	64QAM	1	24	18.73	18.73	18.71	20.1	0	20.4	0				
5	64QAM	12	0	18.84	18.73	18.85								
5	64QAM	12	7	18.82	18.72	18.86								
5	64QAM	12	13	18.80	18.83	18.77								
5	64QAM	25	0	18.89	18.79	18.83								
5	256QAM	1	0	17.63	17.67	17.58	19	1.1	19	1.4				
5	256QAM	1	12	17.54	17.50	17.39								
5	256QAM	1	24	17.60	17.60	17.62								
5	256QAM	12	0	17.48	17.63	17.43								
5	256QAM	12	7	17.41	17.62	17.48								
5	256QAM	12	13	17.58	17.55	17.59	19	1.1	19	1.4				
5	256QAM	25	0	17.63	17.65	17.53								
Channel														
1807.5 1880 1913.5														
3	QPSK	1	0	18.80	18.80	18.72					20.1	0	20.4	0
3	QPSK	1	14	18.88	18.88	18.86								
3	QPSK	1	14	18.70	18.71	18.87								
3	QPSK	8	0	18.86	18.83	18.80								
3	QPSK	8	7	18.72	18.79	18.81								
3	QPSK	8	7	18.77	18.70	18.67	20.1	0	20.4	0				
3	QPSK	16	0	18.80	18.89	18.83								
3	QPSK	16	7	18.78	18.78	18.87								
3	16QAM	1	8	18.81	18.87	18.88								
3	16QAM	1	14	18.82	18.79	18.85								
3	16QAM	8	0	18.81	18.80	18.85	20.1	0	20.4	0				
3	16QAM	8	7	18.74	18.86	18.87								
3	16QAM	8	7	18.76	18.74	18.76								
3	16QAM	8	7	18.78	18.84	18.87								
3	16QAM	16	0	18.82	18.72	18.89								
3	16QAM	16	7	18.80	18.83	18.89	20.1	0	20.4	0				
3	16QAM	16	7	18.87	18.79	18.80								
3	16QAM	16	7	18.86	18.79	18.80								
3	16QAM	16	7	18.85	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80	20.1	0	20.4	0				
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80	20.1	0	20.4	0				
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80	20.1	0	20.4	0				
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80	20.1	0	20.4	0				
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80	20.1	0	20.4	0				
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80	20.1	0	20.4	0				
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80	20.1	0	20.4	0				
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80	20.1	0	20.4	0				
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								
3	16QAM	16	7	18.82	18.79	18.80								

Band 38 Ant2											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)			
Channel				37650	38050	38150					
Frequency (MHz)				2248	2290	2310					
20	QPSK	1	0	22.72	22.90	23.08	23.5	0			
20	QPSK	1	40	22.71	22.84	22.80					
20	QPSK	1	80	22.68	22.77	22.71					
20	QPSK	50	0	21.82	21.90	21.93					
20	QPSK	50	24	21.84	21.89	21.79	22.9	0.6			
20	QPSK	50	40	21.88	21.88	21.79					
20	QPSK	100	0	21.81	21.90	21.85					
20	16QAM	1	0	21.76	21.85	21.78					
20	16QAM	1	40	21.68	21.74	21.60	22.9	0.6			
20	16QAM	1	80	21.74	21.81	21.72					
20	16QAM	50	0	20.81	20.85	20.80					
20	16QAM	50	24	20.77	20.80	20.70					
20	16QAM	50	50	20.63	20.70	20.71	21.9	1.6			
20	16QAM	100	0	20.60	20.65	20.64					
20	84QAM	1	0	20.35	20.35	20.85					
20	84QAM	1	40	20.78	20.91	20.83					
20	84QAM	1	80	20.74	20.80	20.74	20.9	2.6			
20	84QAM	50	0	19.78	19.85	19.72					
20	84QAM	50	24	19.76	19.81	19.77					
20	84QAM	50	50	19.68	19.70	19.68					
20	84QAM	100	0	19.82	19.96	19.90	18.9	4.6			
20	256QAM	1	0	17.84	17.94	17.82					
20	256QAM	1	40	17.79	17.86	17.85					
20	256QAM	1	80	17.89	17.92	17.84					
20	256QAM	50	0	17.78	17.86	17.73	18.9	4.6			
20	256QAM	50	24	17.80	17.83	17.74					
20	256QAM	50	50	17.62	17.78	17.67					
20	256QAM	100	0	17.65	17.82	17.61					
Channel				37650	38050	38175					
Frequency (MHz)				2377.5	2395	2417.5					
15	QPSK	1	0	22.60	22.70	22.74	23.5	0			
15	QPSK	1	40	22.68	22.73	22.68					
15	QPSK	1	74	22.63	22.63	22.84					
15	QPSK	36	0	21.79	21.80	21.84					
15	QPSK	36	20	21.75	21.78	21.78	22.9	0.6			
15	QPSK	36	40	21.78	21.87	21.63					
15	QPSK	75	0	21.76	21.82	21.70					
15	16QAM	1	0	21.67	21.73	21.65					
15	16QAM	1	40	21.65	21.67	21.47	22.9	0.6			
15	16QAM	1	74	21.60	21.70	21.70					
15	16QAM	36	0	20.73	20.73	20.67					
15	16QAM	36	20	20.62	20.65	20.58	21.9	1.6			
15	16QAM	36	39	20.54	20.70	20.56					
15	16QAM	75	0	20.81	20.86	20.69					
15	84QAM	1	0	20.78	20.84	20.73					
15	84QAM	1	27	20.68	20.70	20.69	21.9	1.6			
15	84QAM	1	74	20.63	20.73	20.81					
15	84QAM	36	0	19.87	19.71	19.82					
15	84QAM	36	20	18.69	19.74	19.64					
15	84QAM	36	39	18.62	19.62	19.62	20.9	2.6			
15	84QAM	75	0	19.71	19.90	19.70					
15	256QAM	1	0	17.78	17.82	17.78					
15	256QAM	1	40	17.85	17.84	17.85	18.9	4.6			
15	256QAM	1	74	17.81	17.82	17.80					
15	256QAM	36	0	17.65	17.81	17.88					
15	256QAM	36	20	17.75	17.77	17.63					
15	256QAM	36	39	17.48	17.68	17.63	18.9	4.6			
15	256QAM	75	0	17.70	17.86	17.67					
Channel				37650	38050	38200					
Frequency (MHz)				2515	2590	2615					
10	QPSK	1	0	22.48	22.72	22.74	23.5	0			
10	QPSK	1	25	22.81	22.79	22.73					
10	QPSK	1	49	22.61	22.62	22.65					
10	QPSK	25	0	21.74	21.80	21.81					
10	QPSK	25	12	21.79	21.78	21.60	22.9	0.6			
10	QPSK	25	25	21.62	21.62	21.75					
10	QPSK	50	0	21.73	21.80	21.77					
10	16QAM	1	0	21.70	21.70	21.60					
10	16QAM	1	25	21.68	21.68	21.98	22.9	0.6			
10	16QAM	1	49	21.64	21.67	21.64					
10	16QAM	25	0	20.70	20.77	20.71					
10	16QAM	25	12	20.68	20.74	20.65	21.9	1.6			
10	16QAM	25	25	20.46	20.63	20.63					
10	16QAM	50	0	20.76	20.88	20.79					
10	84QAM	1	0	20.66	20.80	20.62	21.9	1.6			
10	84QAM	1	25	20.74	20.82	20.68					
10	84QAM	25	0	19.74	19.82	19.60					
10	84QAM	25	12	19.84	19.70	19.88	20.9	2.6			
10	84QAM	25	25	19.65	19.65	19.58					
10	84QAM	50	0	19.78	19.87	19.81					
10	256QAM	1	0	17.74	17.80	17.68					
10	256QAM	1	25	17.68	17.76	17.76	18.9	4.6			
10	256QAM	1	49	17.81	17.85	17.75					
10	256QAM	25	0	17.68	17.74	17.69					
10	256QAM	25	12	17.73	17.69	17.64					
10	256QAM	25	25	17.50	17.71	17.63	18.9	4.6			
10	256QAM	50	0	17.78	17.78	17.78					
Channel				3773.5	3806	3822.5					
Frequency (MHz)				2573.5	2596	2618.5					
5	QPSK	1	0	22.63	22.75	22.74	23.5	0			
5	QPSK	1	12	22.58	22.70	22.68					
5	QPSK	1	24	22.58	22.69	22.58					
5	QPSK	12	0	21.88	21.82	21.88					
5	QPSK	12	7	21.71	21.77	21.75	22.9	0.6			
5	QPSK	12	13	21.79	21.79	21.71					
5	QPSK	25	0	21.74	21.80	21.72					
5	16QAM	1	0	21.72	21.80	21.71					
5	16QAM	1	12	21.62	21.61	21.62	22.9	0.6			
5	16QAM	1	24	21.60	21.74	21.68					
5	16QAM	12	7	20.72	20.67	20.56					
5	16QAM	12	13	20.48	20.67	20.62	21.9	1.6			
5	16QAM	25	0	20.85	20.92	20.74					
5	84QAM	1	0	20.82	20.91	20.80					
5	84QAM	1	12	20.73	20.86	20.77	21.9	1.6			
5	84QAM	1	24	20.68	20.77	20.68					
5	84QAM	12	0	19.88	19.72	19.88					
5	84QAM	12	7	19.72	19.75	19.66	20.9	2.6			
5	84QAM	12	13	19.88	19.60	19.64					
5	84QAM	25	0	19.71	19.83	19.66					
5	256QAM	1	0	17.72	17.87	17.74					
5	256QAM	1	12	17.67	17.84	17.75	18.9	4.6			
5	256QAM	1	24	17.82	17.70	17.77					
5	256QAM	12	0	17.73	17.75	17.68					
5	256QAM	12	7	17.77	17.76	17.69					
5	256QAM	12	13	17.69	17.65	17.58	18.9	4.6			
5	256QAM	25	0	17.72	17.83	17.66					

Band 38 HPUE Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel				37850	38050	38150			
Frequency (MHz)				2480	2490	2490			
20	QPSK	1	0	24.18	24.25	24.22	25.1	0	
20	QPSK	1	49	23.99	24.12	24.04			
20	QPSK	1	80	24.12	24.16	24.12			
20	QPSK	50	0	24.12	24.20	24.08			
20	QPSK	50	24	24.07	24.19	24.03	25.1	0	
20	QPSK	50	49	24.07	24.19	24.03			
20	QPSK	100	0	24.13	24.23	24.17			
20	16QAM	1	0	24.14	24.24	24.20	25.1	0	
20	16QAM	1	49	23.98	24.02	24.02			
20	16QAM	1	80	24.09	24.20	24.13			
20	16QAM	1	99	24.09	24.24	24.13			
20	16QAM	50	0	23.76	23.83	23.84	24.9	0.2	
20	16QAM	50	24	23.76	23.83	23.71			
20	16QAM	50	50	23.66	23.77	23.68			
20	16QAM	100	0	23.62	24.06	23.92			
20	16QAM	100	0	23.62	24.06	23.92	24.9	0.2	
20	16QAM	100	24	23.62	24.06	23.92			
20	16QAM	100	49	23.80	23.68	23.59			
20	16QAM	100	74	23.80	23.68	23.59			
20	16QAM	50	0	22.88	22.92	22.88	23.9	1.2	
20	16QAM	50	24	22.73	22.85	22.71			
20	16QAM	50	49	22.73	22.85	22.71			
20	16QAM	100	0	22.88	22.98	22.93			
20	256QAM	1	0	20.94	21.01	20.99	21.9	3.2	
20	256QAM	1	49	20.94	21.01	20.99			
20	256QAM	1	80	20.76	20.84	20.74			
20	256QAM	1	99	20.76	20.84	20.74			
20	256QAM	50	0	20.72	20.79	20.64	21.9	3.2	
20	256QAM	50	24	20.72	20.79	20.64			
20	256QAM	50	50	20.73	20.67	20.65			
20	256QAM	100	0	20.80	20.87	20.87			
Channel				37825	38025	38175	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				2477.5	2487.5	2492.5			
10	QPSK	1	0	24.08	24.16	24.12	25.1	0	
10	QPSK	1	37	23.94	24.08	23.99			
10	QPSK	1	74	24.03	24.10	24.03			
10	QPSK	1	80	24.05	24.10	24.05			
10	QPSK	36	20	24.04	24.11	23.93	24.9	0	
10	QPSK	36	56	24.05	24.10	23.94			
10	QPSK	75	0	24.02	24.10	24.07			
10	16QAM	1	0	24.00	24.14	24.07	25.1	0	
10	16QAM	1	37	23.94	24.08	23.94			
10	16QAM	1	74	23.98	24.02	23.97			
10	16QAM	36	0	23.62	23.68	23.79	24.9	0.2	
10	16QAM	36	36	23.62	23.68	23.67			
10	16QAM	36	75	23.62	23.65	23.54			
10	16QAM	75	0	23.60	23.68	23.65			
10	16QAM	1	0	23.94	24.07	23.97	24.9	0.2	
10	16QAM	1	37	23.77	23.94	23.87			
10	16QAM	1	74	23.81	23.92	23.87			
10	16QAM	36	0	22.79	22.79	22.74	23.9	1.2	
10	16QAM	36	20	22.66	22.77	22.72			
10	16QAM	36	56	22.66	22.77	22.71			
10	16QAM	75	0	22.74	22.88	22.89			
10	256QAM	1	0	20.77	20.80	20.75	21.9	3.2	
10	256QAM	1	37	20.77	20.80	20.75			
10	256QAM	1	74	20.64	20.76	20.63			
10	256QAM	1	80	20.64	20.76	20.63			
10	256QAM	36	0	20.58	20.71	20.68	21.9	3.2	
10	256QAM	36	20	20.58	20.71	20.68			
10	256QAM	36	59	20.59	20.78	20.68			
10	256QAM	75	0	20.60	20.67	20.67			
Channel				37800	38000	38200	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				2497	2497	2497			
10	QPSK	1	0	24.07	24.14	24.14	25.1	0	
10	QPSK	1	25	23.91	24.08	23.98			
10	QPSK	1	49	24.05	24.08	24.05			
10	QPSK	25	0	23.99	24.13	23.95			
10	QPSK	25	12	24.00	24.06	24.04	25.1	0	
10	QPSK	25	37	24.01	24.06	24.03			
10	QPSK	50	0	24.05	24.14	24.03			
10	16QAM	1	0	23.99	24.11	24.12	25.1	0	
10	16QAM	1	25	23.94	24.08	23.94			
10	16QAM	1	49	23.96	24.10	24.10			
10	16QAM	25	0	23.61	23.73	23.81	24.9	0.2	
10	16QAM	25	12	23.59	23.73	23.66			
10	16QAM	25	25	23.58	23.63	23.54			
10	16QAM	50	0	23.63	23.87	23.87			
10	16QAM	1	0	24.00	24.01	23.99	24.9	0.2	
10	16QAM	1	25	23.74	23.68	23.73			
10	16QAM	1	49	23.68	23.76	23.76			
10	16QAM	25	0	22.76	22.80	22.78	23.9	1.2	
10	16QAM	25	12	22.62	22.81	22.73			
10	16QAM	25	25	22.76	22.76	22.74			
10	16QAM	50	0	22.76	22.83	22.82			
10	256QAM	1	0	20.80	20.79	20.79	21.9	3.2	
10	256QAM	1	25	20.83	20.81	20.75			
10	256QAM	1	49	20.71	20.73	20.64			
10	256QAM	1	74	20.73	20.76	20.67	21.9	3.2	
10	256QAM	1	80	20.73	20.76	20.67			
10	256QAM	25	12	20.66	20.70	20.68			
10	256QAM	25	25	20.66	20.72	20.70			
10	256QAM	50	0	20.82	20.82	20.82			
Channel				37775	38075	38225	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				2494.5	2494.5	2494.5			
5	QPSK	1	0	24.12	24.18	24.14	25.1	0	
5	QPSK	1	12	23.88	24.08	23.87			
5	QPSK	1	24	24.04	24.15	24.07			
5	QPSK	12	0	24.05	24.15	23.99			
5	QPSK	12	7	24.04	24.06	23.99	25.1	0	
5	QPSK	24	0	24.04	24.15	23.99			
5	QPSK	24	0	24.05	24.15	24.09			
5	16QAM	1	0	24.09	24.12	24.09	25.1	0	
5	16QAM	1	12	24.01	24.12	24.04			
5	16QAM	1	24	23.99	24.06	24.01			
5	16QAM	12	0	23.62	23.68	23.68	24.9	0.2	
5	16QAM	12	7	23.69	23.69	23.65			
5	16QAM	12	13	23.60	23.63	23.59			
5	16QAM	1	0	23.80	23.86	23.78	24.9	0.2	
5	16QAM	1	12	23.79	23.89	23.84			
5	16QAM	1	24	23.71	23.81	23.84			
5	16QAM	12	0	22.82	22.81	22.82	23.9	1.2	
5	16QAM	12	7	22.86	22.82	22.89			
5	16QAM	12	13	22.74	22.76	22.78			
5	16QAM	25	0	22.84	22.88	22.84			
5	256QAM	1	0	20.79	20.82	20.80	21.9	3.2	
5	256QAM	1	12	20.80	20.80	20.80			
5	256QAM	1	24	20.67	20.72	20.67			
5	256QAM	1	25	20.67	20.68	20.68	21.9	3.2	
5	256QAM	12	7	20.59	20.67	20.53			
5	256QAM	12	13	20.62	20.62	20.64			
5	256QAM	25	0	20.84	20.84	20.84			

Band 41 Ant2													
RW [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	Power Low Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)
Channel													
Frequency (MHz)				39790	40188	40620	41058	41490	41922	42354	42786		
20	QPSK	1	5	22.71	22.85	22.84	22.89	22.79	22.75	22.72	22.68	23.5	0
20	QPSK	1	40	22.65	22.73	22.79	22.75	22.72					
20	QPSK	50	5	21.79	21.90	21.94	21.85	21.80					
20	QPSK	50	24	21.76	21.72	21.85	21.78	21.75				22.0	0.6
20	QPSK	100	0	21.82	21.86	21.90	21.79	21.84					
20	16QAM	1	5	21.81	21.83	21.88	21.81	21.79					
20	16QAM	1	40	21.71	21.72	21.81	21.69	21.68				22.0	0.6
20	16QAM	1	80	21.86	21.82	21.75	21.69	21.63					
20	16QAM	50	5	20.79	20.89	20.94	20.89	20.82					
20	16QAM	50	24	20.77	20.68	20.83	20.76	20.71				21.0	1.6
20	16QAM	50	50	20.77	20.60	20.68	20.63	20.64					
20	16QAM	100	0	20.87	20.76	20.80	20.84	20.77					
20	16QAM	100	5	20.52	20.81	20.93	20.75	20.52					
20	16QAM	1	40	20.79	20.80	20.91	20.88	20.77				21.0	1.6
20	16QAM	1	80	20.78	20.81	20.84	20.72	20.71					
20	16QAM	50	5	19.73	19.70	19.84	19.70	19.78					
20	16QAM	50	24	19.66	19.73	19.77	19.65	19.64				20.0	2.6
20	16QAM	50	50	19.70	19.71	19.79	19.74	19.70					
20	16QAM	100	0	19.79	19.78	19.92	19.81	19.79					
20	256QAM	1	0	17.77	17.84	17.90	17.82	17.84					
20	256QAM	1	40	17.73	17.75	17.83	17.72	17.75				18.0	4.6
20	256QAM	1	80	17.66	17.70	17.78	17.67	17.66					
20	256QAM	50	5	17.63	17.68	17.86	17.60	17.78					
20	256QAM	50	24	17.69	17.70	17.74	17.66	17.61				18.0	4.6
20	256QAM	50	50	17.68	17.68	17.80	17.73	17.71					
20	256QAM	100	0	17.68	17.68	17.80	17.78	17.69					
Channel													
Frequency (MHz)				39795	40173	40620	41066	41616	42166	42716	43266	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	5	22.61	22.72	22.86	22.81	22.82				24	0
15	QPSK	1	37	22.62	22.68	22.66	22.83	22.67					
15	QPSK	1	74	22.71	22.67	22.72	22.84	22.74					
15	QPSK	1	80	21.72	21.87	21.86	21.71	21.75					
15	QPSK	36	20	21.69	21.57	21.78	21.64	21.70				22.0	0.6
15	QPSK	36	20	21.68	21.73	21.86	21.68	21.78					
15	QPSK	75	5	21.67	21.80	21.76	21.67	21.77					
15	16QAM	1	0	21.71	21.78	21.82	21.75	21.86					
15	16QAM	1	40	21.61	21.60	21.69	21.64	21.67				22.0	0.6
15	16QAM	1	74	21.55	21.66	21.67	21.84	21.57					
15	16QAM	36	0	20.72	20.72	20.90	20.74	20.77					
15	16QAM	36	39	20.64	20.54	20.62	20.65	20.65				21.0	1.6
15	16QAM	36	39	20.68	20.69	20.75	20.73	20.78					
15	16QAM	75	0	20.78	20.82	20.80	20.76	20.84					
15	16QAM	1	0	20.71	20.72	20.89	20.75	20.68				21.0	1.6
15	16QAM	1	37	20.76	20.75	20.83	20.78	20.67					
15	16QAM	1	74	20.75	20.76	20.77	20.67	20.67					
15	16QAM	36	39	19.64	19.58	19.77	19.65	19.74				20.0	2.6
15	16QAM	36	39	19.54	19.69	19.71	19.59	19.52					
15	16QAM	75	5	19.75	19.74	19.85	19.76	19.65					
15	256QAM	1	0	17.64	17.73	17.75	17.78	17.71				18.0	4.6
15	256QAM	1	40	17.63	17.68	17.80	17.60	17.62					
15	256QAM	1	74	17.60	17.60	17.72	17.63	17.59					
15	256QAM	36	0	17.73	17.68	17.73	17.75	17.63				18.0	4.6
15	256QAM	36	39	17.63	17.61	17.68	17.60	17.62					
15	256QAM	75	0	17.66	17.60	17.86	17.72	17.64					
Channel													
Frequency (MHz)				39990	40160	40620	41098	41540	42002	42464	42926	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	0	22.67	22.78	22.89	22.80	22.82				23.00	0
10	QPSK	1	25	22.59	22.81	22.72	22.80	22.80					
10	QPSK	1	40	22.70	22.63	22.78	22.82	22.74					
10	QPSK	25	0	21.75	21.79	21.84	21.75	21.78					
10	QPSK	25	12	21.74	21.68	21.73	21.71	21.72				22.0	0.6
10	QPSK	25	25	21.75	21.76	21.81	21.74	21.75					
10	QPSK	50	5	21.70	21.74	21.79	21.75	21.74					
10	16QAM	1	0	21.67	21.74	21.77	21.68	21.72				22.0	0.6
10	16QAM	1	25	21.68	21.65	21.76	21.68	21.68					
10	16QAM	1	40	21.61	21.57	21.63	21.63	21.60					
10	16QAM	25	0	20.70	20.70	20.82	20.69	20.74				21.0	1.6
10	16QAM	25	14	20.69	20.56	20.75	20.66	20.69					
10	16QAM	25	25	20.75	20.73	20.81	20.80	20.77					
10	16QAM	50	0	20.76	20.65	20.80	20.81	20.71					
10	16QAM	50	14	20.69	20.66	20.78	20.69	20.74				21.0	1.6
10	16QAM	1	25	20.73	20.74	20.78	20.77	20.69					
10	16QAM	1	40	20.70	20.68	20.70	20.67	20.57					
10	16QAM	25	0	19.69	19.69	19.78	19.63	19.63				20.0	2.6
10	16QAM	25	12	19.61	19.68	19.64	19.53	19.59					
10	16QAM	25	25	19.56	19.57	19.75	19.63	19.66					
10	16QAM	50	0	19.78	19.64	19.84	19.69	19.67					
10	256QAM	1	0	17.73	17.71	17.77	17.77	17.73				18.0	4.6
10	256QAM	1	25	17.66	17.61	17.70	17.60	17.71					
10	256QAM	1	40	17.58	17.62	17.64	17.59	17.58					
10	256QAM	25	0	17.73	17.64	17.83	17.77	17.63				18.0	4.6
10	256QAM	25	0	17.66	17.60	17.63	17.54	17.62					
10	256QAM	25	25	17.51	17.54	17.73	17.61	17.53					
10	256QAM	50	0	17.61	17.75	17.81	17.75	17.79					
Channel													
Frequency (MHz)				3697.5	3694.5	3690.5	3684.50	3687.5	3681.5	3677.5	3673.5	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	0	22.65	22.75	22.84	22.84	22.78				23.00	0
5	QPSK	1	15	22.61	22.63	22.67	22.67	22.67					
5	QPSK	1	24	22.63	22.58	22.78	22.58	22.66					
5	QPSK	12	0	21.66	21.63	21.80	21.73	21.76					
5	QPSK	12	7	21.71	21.68	21.79	21.69	21.64				22.0	0.6
5	QPSK	12	13	21.66	21.79	21.80	21.73	21.79					
5	QPSK	25	0	21.78	21.72	21.79	21.75	21.74					
5	16QAM	1	0	21.69	21.79	21.75	21.78	21.68				22.0	0.6
5	16QAM	1	12	21.61	21.68	21.73	21.62	21.61					
5	16QAM	1	24	21.66	21.46	21.62	21.66	21.57					
5	16QAM	12	0	20.67	20.70	20.88	20.74	20.76				21.0	1.6
5	16QAM	12	7	20.64	20.60	20.70	20.69	20.63					
5	16QAM	12	13	20.70	20.70	20.76	20.72	20.70					
5	16QAM	25	0	20.75	20.67	20.76	20.69	20.68				21.0	1.6
5	16QAM	1	0	20.79	20.73	20.89	20.84	20.71					
5	16QAM	1	12	20.71	20.74	20.87	20.79	20.66					
5	16QAM	1	24	20.71	20.67	20.80	20.63	20.66					
5	16QAM	12	0	19.63	19.66	19.78	19.66	19.71				20.0	2.6
5	16QAM	12	7	19.63	19.67	19.68	19.55	19.62					
5	16QAM	12	13	19.60	19.63	19.67	19.66	19.58					
5	16QAM	25	0	19.74	19.76	19.83	19.68	19.69					
5	256QAM	1	0	17.68	17.72	17.84	17.72	17.70				18.0	4.6
5	256QAM	1	12	17.62	17.56	17.69	17.68	17.67					
5	256QAM	1	24	17.57	17.60	17.73	17.62	17.58					
5	256QAM	12	0	17.78	17.79	17.91	17.74	17.71				18.0	4.6
5	256QAM	12	7	17.59	17.56	17.70	17.62	17.61					
5	256QAM	12	13	17.57	17.57	17.68	17.61	17.59					



Band 42 FCC Part27Q Ant3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)			
Channel				42190	42590	42990					
Frequency (MHz)											
20	QPSK	1	0	19.48	19.57	19.44	20.6	0			
20	QPSK	1	49	19.31	19.45	19.37					
20	QPSK	1	99	19.48	19.55	19.49					
20	QPSK	50	0	19.41	19.57	19.43					
20	QPSK	50	24	19.34	19.48	19.40	20.6	0			
20	QPSK	50	50	19.38	19.45	19.38					
20	QPSK	100	0	19.29	19.42	19.36					
20	16QAM	1	0	19.37	19.44	19.34					
20	16QAM	1	49	19.45	19.55	19.44	20.6	0			
20	16QAM	1	99	19.32	19.43	19.38					
20	16QAM	50	0	19.44	19.58	19.42					
20	16QAM	50	24	19.39	19.43	19.43					
20	16QAM	50	50	19.35	19.40	19.28	19.5	1.1			
20	16QAM	100	0	19.43	19.49	19.44					
20	84QAM	1	0	19.32	19.45	19.41					
20	84QAM	1	49	19.46	19.44	19.38					
20	84QAM	1	99	19.35	19.42	19.33	19.5	1.1			
20	84QAM	50	0	18.43	18.44	18.39					
20	84QAM	50	24	18.41	18.42	18.44					
20	84QAM	50	50	18.34	18.40	18.38					
20	84QAM	100	0	18.40	18.48	18.47	18.5	2.1			
20	256QAM	1	0	18.20	18.36	18.18					
20	256QAM	1	49	18.27	18.33	18.23					
20	256QAM	1	99	18.18	18.25	18.22					
20	256QAM	50	0	18.27	18.32	18.19	18.5	4.1			
20	256QAM	50	24	18.22	18.33	18.21					
20	256QAM	50	50	18.24	18.38	18.20					
20	256QAM	100	0	18.19	18.25	18.25					
Channel				42190	42590	43015	Tune-up Int. (dBm) MPR (dB)				
Frequency (MHz)											
15	QPSK	1	0	19.22	19.43	19.43	20.6	0			
15	QPSK	1	47	19.23	19.39	19.30					
15	QPSK	1	74	19.36	19.40	19.40					
15	QPSK	36	0	19.35	19.41	19.30					
15	QPSK	36	20	19.27	19.37	19.34	20.6	0			
15	QPSK	36	48	19.38	19.43	19.38					
15	QPSK	75	0	19.14	19.30	19.28					
15	16QAM	1	0	19.30	19.37	19.22					
15	16QAM	1	47	19.28	19.41	19.32	20.6	0			
15	16QAM	1	74	19.26	19.32	19.26					
15	16QAM	36	0	19.38	19.46	19.37					
15	16QAM	36	20	19.43	19.42	19.33					
15	16QAM	36	39	19.28	19.25	19.12	19.5	1.1			
15	16QAM	75	0	19.37	19.43	19.38					
15	84QAM	1	0	19.23	19.32	19.30					
15	84QAM	1	27	19.31	19.30	19.25					
15	84QAM	1	74	19.27	19.34	19.19	19.5	1.1			
15	84QAM	36	0	18.24	18.35	18.27					
15	84QAM	36	20	18.35	18.39	18.23					
15	84QAM	36	39	18.22	18.25	18.15					
15	84QAM	75	0	18.30	18.33	18.17	18.5	2.1			
15	256QAM	1	0	18.19	18.34	18.21					
15	256QAM	1	47	18.28	18.34	18.20					
15	256QAM	1	74	18.18	18.26	18.21					
15	256QAM	36	0	18.23	18.34	18.20	18.5	4.1			
15	256QAM	36	20	18.25	18.34	18.22					
15	256QAM	36	39	18.18	18.30	18.25					
15	256QAM	75	0	18.27	18.34	18.21					
Channel				42190	42590	43015	Tune-up Int. (dBm) MPR (dB)				
Frequency (MHz)											
10	QPSK	1	0	19.28	19.40	19.40	20.6	0			
10	QPSK	1	25	19.19	19.37	19.28					
10	QPSK	1	49	18.44	18.47	19.39					
10	QPSK	36	0	19.20	19.47	19.31					
10	QPSK	25	12	19.23	19.40	19.36	20.6	0			
10	QPSK	25	25	19.27	19.38	19.31					
10	QPSK	50	0	19.18	19.37	19.33					
10	16QAM	1	0	19.33	19.32	19.27					
10	16QAM	1	25	19.35	19.43	19.40	20.6	0			
10	16QAM	1	49	19.24	19.38	19.33					
10	16QAM	25	0	19.32	19.43	19.35					
10	16QAM	25	12	19.46	19.47	19.39					
10	16QAM	25	25	19.24	19.37	19.22	19.5	1.1			
10	16QAM	50	0	19.34	19.43	19.33					
10	84QAM	1	0	19.27	19.29	19.16					
10	84QAM	1	25	19.29	19.30	19.22	19.5	1.1			
10	84QAM	1	49	19.23	19.37	19.28					
10	84QAM	25	0	18.20	18.31	18.21					
10	84QAM	25	12	18.31	18.35	18.19	18.5	2.1			
10	84QAM	25	25	18.25	18.27	18.23					
10	84QAM	50	0	18.24	18.32	18.30					
10	256QAM	1	0	18.23	18.30	18.24					
10	256QAM	1	25	18.26	18.37	18.18	18.5	4.1			
10	256QAM	1	49	18.23	18.27	18.25					
10	256QAM	25	0	18.26	18.37	18.17					
10	256QAM	25	12	18.23	18.26	18.20					
10	256QAM	25	25	18.25	18.34	18.21	18.5	4.1			
10	256QAM	50	0	18.18	18.30	18.27					
Channel				42190	42590	43015	Tune-up Int. (dBm) MPR (dB)				
Frequency (MHz)											
5	QPSK	1	0	19.23	19.40	19.40	20.6	0			
5	QPSK	1	12	19.19	19.40	19.22					
5	QPSK	1	24	19.40	19.47	19.42					
5	QPSK	12	0	19.36	19.47	19.38					
5	QPSK	12	7	19.20	19.40	19.38	20.6	0			
5	QPSK	12	13	19.31	19.32	19.34					
5	QPSK	26	0	19.18	19.32	19.23					
5	16QAM	1	0	19.28	19.37	19.22					
5	16QAM	1	12	19.42	19.47	19.40	20.6	0			
5	16QAM	1	24	19.25	19.30	19.25					
5	16QAM	12	0	19.36	19.37	19.33					
5	16QAM	12	7	19.39	19.47	19.29					
5	16QAM	12	13	19.23	19.28	19.22	19.5	1.1			
5	16QAM	25	0	19.34	19.36	19.34					
5	84QAM	1	0	19.22	19.33	19.30					
5	84QAM	1	12	19.31	19.30	19.28					
5	84QAM	1	24	19.31	19.30	19.20	19.5	1.1			
5	84QAM	12	0	18.21	18.34	18.21					
5	84QAM	12	7	18.25	18.37	18.17					
5	84QAM	12	13	18.22	18.24	18.25					
5	84QAM	26	0	18.27	18.30	18.20	18.5	2.1			
5	256QAM	1	0	18.23	18.32	18.20					
5	256QAM	1	12	18.26	18.37	18.18					
5	256QAM	1	24	18.21	18.30	18.25					
5	256QAM	12	0	18.27	18.34	18.19	18.5	4.1			
5	256QAM	12	7	18.19	18.38	18.19					
5	256QAM	12	13	18.27	18.30	18.22					
5	256QAM	26	0	18.20	18.28	18.21					

Band 42 FCC Part96 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)	
Channel				43190	43340	43490			
Frequency (MHz)									
20	QPSK	1	0	19.42	19.45	19.37	20.6	0	
20	QPSK	1	49	19.22	19.39	19.27			
20	QPSK	1	99	19.40	19.46	19.35			
20	QPSK	50	0	19.35	19.40	19.36			
20	QPSK	50	24	19.26	19.41	19.26	20.6	0	
20	QPSK	100	0	19.30	19.45	19.35			
20	QPSK	100	0	19.21	19.37	19.27			
20	16QAM	1	0	19.24	19.30	19.20			
20	16QAM	1	0	19.38	19.38	19.30	20.6	0	
20	16QAM	1	59	19.20	19.25	19.33			
20	16QAM	50	0	19.38	19.40	19.35			
20	16QAM	50	24	19.26	19.41	19.36			
20	16QAM	100	0	19.22	19.39	19.31	19.5	1.1	
20	16QAM	100	0	19.31	19.36	19.28			
20	16QAM	100	0	19.22	19.38	19.30			
20	16QAM	100	0	19.31	19.37	19.21			
20	16QAM	1	49	19.30	19.37	19.21	19.5	1.1	
20	16QAM	1	99	19.38	19.43	19.32			
20	16QAM	50	0	19.33	19.34	19.28			
20	16QAM	50	24	19.26	19.38	19.29			
20	16QAM	100	0	19.28	19.39	19.32	18.5	2.1	
20	16QAM	100	0	19.38	19.40	19.35			
20	16QAM	100	0	19.28	19.39	19.38			
20	16QAM	100	0	19.38	19.40	19.35			
20	25QAM	1	0	19.08	19.10	19.02	16.5	4.1	
20	25QAM	1	49	18.88	18.94	18.84			
20	25QAM	1	99	19.12	19.15	19.08			
20	25QAM	1	149	18.88	18.94	18.84			
20	25QAM	1	199	19.12	19.15	19.08	16.5	4.1	
20	25QAM	1	249	18.88	18.94	18.84			
20	25QAM	50	24	19.11	19.22	19.12			
20	25QAM	50	50	19.11	19.21	19.11			
Channel				43165 <th>43315<th>43465</th><th colspan="3"></th></th>	43315 <th>43465</th> <th colspan="3"></th>	43465			
Frequency (MHz)									
15	QPSK	1	0	19.12	19.33	19.28	20.6	0	
15	QPSK	1	37	19.10	19.30	19.25			
15	QPSK	1	74	19.23	19.34	19.28			
15	QPSK	1	111	19.20	19.31	19.26			
15	QPSK	36	20	19.17	19.24	19.28	20.6	0	
15	QPSK	36	56	19.22	19.33	19.27			
15	QPSK	36	93	19.27	19.32	19.23			
15	QPSK	75	0	19.08	19.21	19.22			
15	16QAM	1	0	19.22	19.27	19.21	20.6	0	
15	16QAM	1	37	19.24	19.29	19.24			
15	16QAM	1	74	19.19	19.25	19.20			
15	16QAM	36	0	19.31	19.31	19.25			
15	16QAM	36	0	19.31	19.34	19.23	19.5	1.1	
15	16QAM	36	39	19.22	19.26	19.06			
15	16QAM	36	75	19.22	19.26	19.06			
15	16QAM	75	0	19.15	19.21	19.19			
15	16QAM	1	37	19.22	19.30	19.22	19.5	1.1	
15	16QAM	1	74	19.14	19.21	19.09			
15	16QAM	36	0	19.09	19.24	19.18			
15	16QAM	36	20	19.27	19.29	19.18			
15	16QAM	36	20	19.16	19.18	19.11	18.5	2.1	
15	16QAM	36	56	19.22	19.26	19.06			
15	16QAM	75	0	19.24	19.24	19.04			
15	16QAM	75	0	19.24	19.24	19.04			
15	25QAM	1	0	19.15	19.21	19.19	16.5	4.1	
15	25QAM	1	37	19.14	19.22	19.15			
15	25QAM	1	74	19.10	19.11	19.07			
15	25QAM	1	111	19.10	19.10	19.05			
15	25QAM	36	20	19.19	19.24	19.18	16.5	4.1	
15	25QAM	36	56	19.13	19.20	19.12			
15	25QAM	36	93	19.14	19.21	19.12			
15	25QAM	75	0	19.14	19.14	19.12			
Channel				43140	43190	43440			
Frequency (MHz)									
10	QPSK	1	0	19.19	19.19	19.19	20.6	0	
10	QPSK	1	25	19.11	19.28	19.19			
10	QPSK	1	49	19.33	19.27	19.27			
10	QPSK	25	0	19.21	19.33	19.18			
10	QPSK	25	12	19.18	19.28	19.20	20.6	0	
10	QPSK	25	12	19.18	19.28	19.20			
10	QPSK	50	0	19.03	19.29	19.30			
10	16QAM	1	0	19.21	19.25	19.21			
10	16QAM	1	0	19.28	19.28	19.30	20.6	0	
10	16QAM	1	49	19.14	19.23	19.21			
10	16QAM	25	0	19.23	19.30	19.24			
10	16QAM	25	12	19.36	19.30	19.20			
10	16QAM	25	12	19.36	19.30	19.20	19.5	1.1	
10	16QAM	25	12	19.16	19.28	19.13			
10	16QAM	50	0	19.20	19.31	19.21			
10	16QAM	50	0	19.15	19.18	19.19			
10	16QAM	1	25	19.17	19.21	19.11	19.5	1.1	
10	16QAM	1	49	19.18	19.29	19.14			
10	16QAM	25	0	19.22	19.27	19.07			
10	16QAM	25	12	19.27	19.21	19.05			
10	16QAM	25	12	19.17	19.17	19.16	18.5	2.1	
10	16QAM	25	12	19.18	19.12	19.16			
10	16QAM	50	0	19.14	19.24	19.18			
10	16QAM	50	0	19.16	19.26	19.18			
10	25QAM	1	0	19.16	19.20	19.18	16.5	4.1	
10	25QAM	1	25	19.12	19.20	19.03			
10	25QAM	1	49	19.16	19.15	19.06			
10	25QAM	1	74	19.16	19.16	19.06			
10	25QAM	25	12	19.13	19.25	19.20	16.5	4.1	
10	25QAM	25	12	19.13	19.25	19.20			
10	25QAM	25	12	19.13	19.25	19.20			
10	25QAM	25	12	19.13	19.25	19.20			
Channel				43115 <th>43165<th>43415</th><th colspan="3"></th></th>	43165 <th>43415</th> <th colspan="3"></th>	43415			
Frequency (MHz)									
5	QPSK	1	0	19.14	19.43	19.19	20.6	0	
5	QPSK	1	12	19.07	19.34	19.09			
5	QPSK	1	24	19.23	19.23	19.29			
5	QPSK	12	0	19.27	19.41	19.24			
5	QPSK	12	7	19.10	19.34	19.15	20.6	0	
5	QPSK	12	13	19.21	19.31	19.23			
5	QPSK	25	0	19.08	19.29	19.10			
5	QPSK	25	0	19.26	19.38	19.19			
5	16QAM	1	12	19.36	19.31	19.23	20.6	0	
5	16QAM	1	24	19.17	19.28	19.14			
5	16QAM	12	7	19.20	19.35	19.26			
5	16QAM	12	7	19.26	19.38	19.22			
5	16QAM	12	13	19.12	19.14	19.07	19.5	1.1	
5	16QAM	12	13	19.21	19.26	19.20			
5	16QAM	1	0	19.08	19.29	19.21			
5	16QAM	1	12	19.25	19.29	19.13			
5	16QAM	12	0	19.15	19.25	19.13	18.5	2.1	
5	16QAM	12	0	19.17	19.22	19.09			
5	16QAM	12	13	19.08	19.12	19.09			
5	16QAM	25	0	19.12	19.24	19.13			
5	25QAM	1	0	19.06	19.24	19.08	16.5	4.1	
5	25QAM	1	12	19.20	19.28	19.05			
5	25QAM	1	24	19.09	19.15	19.11			
5	25QAM	1	36	19.17	19.25	19.09			
5	25QAM	12	7	19.08	19.31	19.08	16.5	4.1	
5	25QAM	12	13	19.14	19.26	19.10			
5	25QAM	12	13	19.06	19.27	19.07			
5	25QAM	12	13	19.06	19.27	19.07			



Band 43 for FCC use Ant3														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	20.34	20.55	20.42	21.5	0						
20	QPSK	1	49	20.28	20.44	20.41								
20	QPSK	1	99	20.29	20.40	20.41								
20	QPSK	50	0	19.11	19.22	19.14								
20	QPSK	50	24	19.06	19.13	19.04	20.5	1						
20	QPSK	50	50	19.03	19.10	19.06								
20	QPSK	100	0	19.07	19.18	19.16								
20	HQAM	1	0	19.69	19.80	19.87								
20	HQAM	1	49	19.68	19.81	19.78	20.5	1						
20	HQAM	1	99	19.76	19.83	19.76								
20	HQAM	50	24	17.81	17.87	17.81								
20	HQAM	50	50	17.81	17.85	17.81	19.5	2						
20	HQAM	100	0	17.87	17.87	17.84								
20	HQAM	100	0	18.95	18.94	18.95								
20	64QAM	1	49	18.73	18.87	18.81	19.5	2						
20	64QAM	1	99	18.96	18.95	18.93								
20	64QAM	50	0	18.05	17.91	18.02								
20	64QAM	50	24	18.06	17.91	18.06								
20	64QAM	100	0	18.99	17.96	18.91	18.5	3						
20	64QAM	100	0	19.54	19.63	19.59								
20	25SQAM	1	0	19.58	19.59	19.51								
20	25SQAM	1	99	19.55	19.53	19.54	20.5	1						
20	25SQAM	50	0	19.63	19.77	19.67								
20	25SQAM	50	24	19.60	19.53	19.60								
20	25SQAM	50	50	19.67	19.71	19.65	20.5	1						
20	25SQAM	100	0	19.70	19.76	19.69								
Channel														
Frequency (MHz)														
15	QPSK	1	0	20.20	20.33	20.43	21.5	0						
15	QPSK	1	47	20.28	20.28	20.32								
15	QPSK	1	74	20.36	20.34	20.42								
15	QPSK	36	0	19.04	19.11	19.09								
15	QPSK	36	20	18.98	18.98	19.00	20.5	1						
15	QPSK	36	50	18.98	18.98	19.00								
15	QPSK	75	0	19.08	19.12	19.05								
15	HQAM	1	0	19.75	19.83	19.79								
15	HQAM	1	47	19.63	19.68	19.67	20.5	1						
15	HQAM	1	74	19.69	19.85	19.80								
15	HQAM	36	0	17.74	17.86	17.76								
15	HQAM	36	20	17.82	17.82	17.76	19.5	2						
15	HQAM	36	50	17.81	17.81	17.70								
15	HQAM	75	0	17.81	18.15	18.10								
15	64QAM	1	0	18.82	18.82	18.76	19.5	2						
15	64QAM	1	27	18.82	18.89	18.83								
15	64QAM	1	74	18.81	18.74	18.92								
15	64QAM	36	0	18.81	17.82	18.81	18.5	3						
15	64QAM	36	20	18.86	17.69	18.86								
15	64QAM	36	50	18.86	17.69	18.86								
15	64QAM	75	0	18.95	17.04	18.95								
15	25SQAM	1	0	19.53	19.48	19.47	20.5	1						
15	25SQAM	1	47	19.47	19.52	19.47								
15	25SQAM	1	74	19.40	19.37	19.38								
15	25SQAM	36	0	19.56	19.69	19.55	20.5	1						
15	25SQAM	36	20	19.51	19.39	19.49								
15	25SQAM	36	50	19.71	19.61	19.61								
15	25SQAM	75	0	19.68	19.76	19.71								
Channel														
Frequency (MHz)														
10	QPSK	1	0	20.28	20.40	20.42	21.5	0						
10	QPSK	1	25	20.32	20.32	20.44								
10	QPSK	1	49	20.46	20.28	20.43								
10	QPSK	25	0	19.08	19.08	19.08								
10	QPSK	25	12	19.04	19.13	19.08	20.5	1						
10	QPSK	25	25	18.99	19.04	19.02								
10	QPSK	50	0	19.06	19.15	19.11								
10	HQAM	1	0	19.77	19.68	19.82								
10	HQAM	1	25	19.71	19.94	19.82	20.5	1						
10	HQAM	1	49	19.69	19.79	19.80								
10	HQAM	25	0	17.88	18.04	17.87								
10	HQAM	25	12	17.81	17.81	17.83	19.5	2						
10	HQAM	25	24	17.82	17.83	17.76								
10	HQAM	50	0	17.98	17.87	18.14								
10	64QAM	1	0	18.78	18.80	18.71	19.5	2						
10	64QAM	1	25	18.59	18.87	18.84								
10	64QAM	1	49	18.96	18.76	18.95								
10	64QAM	25	0	18.81	18.80	18.83								
10	64QAM	25	12	18.85	17.91	18.78	18.5	3						
10	64QAM	25	25	18.77	18.76	18.88								
10	64QAM	50	0	18.85	18.86	18.83								
10	25SQAM	1	0	19.46	19.62	19.42								
10	25SQAM	1	25	19.45	19.52	19.38	20.5	1						
10	25SQAM	1	49	19.48	19.38	19.45								
10	25SQAM	25	0	19.55	19.62	19.60								
10	25SQAM	25	12	19.55	19.55	19.60	20.5	1						
10	25SQAM	25	25	19.57	19.75	19.55								
10	25SQAM	50	0	19.58	19.80	19.68								
Channel														
Frequency (MHz)														
5	QPSK	1	0	20.27	20.50	20.35	21.5	0						
5	QPSK	1	12	20.18	20.30	20.24								
5	QPSK	1	24	20.41	20.40	20.27								
5	QPSK	12	0	19.08	19.11	19.07								
5	QPSK	12	7	18.95	19.14	19.00	20.5	1						
5	QPSK	12	13	18.93	19.13	19.06								
5	QPSK	26	0	19.03	19.16	19.03								
5	HQAM	1	0	19.84	19.82	19.75								
5	HQAM	1	12	19.85	19.83	19.82	20.5	1						
5	HQAM	1	24	19.85	19.70	19.65								
5	HQAM	12	0	17.85	17.87	17.70								
5	HQAM	12	7	17.79	17.82	17.74	19.5	2						
5	HQAM	12	13	17.83	17.77	17.82								
5	HQAM	26	0	17.83	18.08	18.10								
5	HQAM	1	0	18.71	18.80	18.79	19.5	2						
5	HQAM	1	12	18.74	18.80	18.78								
5	HQAM	1	24	18.94	18.72	18.82								
5	HQAM	12	0	18.83	17.03	18.78								
5	HQAM	12	7	18.85	18.85	18.70	18.5	3						
5	HQAM	12	13	18.86	18.72	18.89								
5	HQAM	26	0	18.93	17.80	18.82								
5	25SQAM	1	0	19.47	19.61	19.40								
5	25SQAM	1	12	19.47	19.51	19.39	20.5	1						
5	25SQAM	1	24	19.54	19.38	19.38								
5	25SQAM	12	0	19.62	19.68	19.60								
5	25SQAM	12	7	19.42	19.58	19.55	20.5	1						
5	25SQAM	12	13	19.52	19.70	19.58								
5	25SQAM	26	0	19.58	19.80	19.70								

Band 41 Ant4														
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power Low Hgh Ch / Freq	Power High Hgh Ch / Freq	Turn-up limit (dBm)	MPR (dB)			
Channel				39750	40158	40620	41058	41490						
Frequency (MHz)				2501.5	2547.5	2593.5	2639.5	2685.5						
20	QPSK	1	0	16.82	16.75	16.75	16.75	16.84				18	0	
20	QPSK	1	40	16.88	16.82	16.82	16.78	16.74						
20	QPSK	1	80	16.89	16.74	16.72	16.67	16.63						
20	QPSK	50	0	16.69	16.68	16.63	16.75	16.77				18	0	
20	QPSK	50	24	16.54	16.67	16.76	16.74	16.67						
20	QPSK	50	48	16.70	16.65	16.63	16.73	16.67						
20	QPSK	100	0	16.62	16.61	16.70	16.62	16.64				18	0	
20	16QAM	1	0	16.61	16.72	16.91	16.65	16.67						
20	16QAM	1	40	16.68	16.68	16.62	16.64	16.62						
20	16QAM	1	80	16.75	16.64	16.57	16.78	16.81				18	0	
20	16QAM	50	0	16.63	16.63	16.73	16.57	16.64						
20	16QAM	50	24	16.49	16.46	16.64	16.50	16.53						
20	16QAM	50	48	16.72	16.63	16.58	16.67	16.72				18	0	
20	16QAM	100	0	16.50	16.49	16.65	16.46	16.57						
20	16QAM	100	0	16.71	16.25	16.92	16.50	16.55						
20	16QAM	1	40	16.48	16.64	16.61	16.77	16.58				18	0	
20	16QAM	1	80	16.71	16.53	16.64	16.77	16.57						
20	16QAM	50	0	16.63	16.55	16.68	16.57	16.66						
20	16QAM	50	24	16.35	16.60	16.72	16.64	16.53				17	1	
20	16QAM	50	48	16.72	16.59	16.61	16.53	16.71						
20	16QAM	100	0	16.43	16.51	16.59	16.51	16.53						
20	256QAM	1	0	14.62	14.58	14.60	14.67	14.64				15	3	
20	256QAM	1	40	14.33	14.58	14.75	14.64	14.63						
20	256QAM	1	80	14.69	14.59	14.63	14.65	14.69						
20	256QAM	50	0	14.67	14.54	14.58	14.49	14.52				15	3	
20	256QAM	50	24	14.64	14.56	14.70	14.56	14.69						
20	256QAM	50	48	14.37	14.57	14.74	14.68	14.64						
20	256QAM	100	0	14.30	14.53	14.45	14.48	14.48						
Channel				14.46	14.49	14.6	14.62	14.64						
Frequency (MHz)				2687.5	2743.5	2799.5	2855.5	2911.5						
16	QPSK	1	0	16.61	16.69	16.94	16.73	16.73				18	0	
16	QPSK	1	37	16.67	16.80	16.71	16.79	16.71						
16	QPSK	1	74	16.74	16.58	16.61	16.78	16.69						
16	QPSK	36	0	16.69	16.69	16.76	16.68	16.62				18	0	
16	QPSK	36	20	16.48	16.61	16.62	16.73	16.54						
16	QPSK	36	40	16.64	16.61	16.61	16.61	16.61						
16	QPSK	75	0	16.51	16.58	16.69	16.51	16.48				18	0	
16	16QAM	1	0	16.75	16.63	16.87	16.58	16.62						
16	16QAM	1	37	16.63	16.63	16.61	16.57	16.58						
16	16QAM	1	74	16.73	16.54	16.53	16.72	16.78				18	0	
16	16QAM	36	0	16.41	16.69	16.55	16.68	16.53						
16	16QAM	36	20	16.68	16.62	16.64	16.74	16.62						
16	16QAM	36	39	16.58	16.57	16.51	16.56	16.58				18	0	
16	16QAM	75	0	16.43	16.33	16.48	16.33	16.49						
16	16QAM	1	0	16.59	16.45	16.79	16.53	16.74						
16	16QAM	1	37	16.43	16.58	16.55	16.71	16.48				18	0	
16	16QAM	1	74	16.56	16.66	16.52	16.66	16.56						
16	16QAM	36	0	16.58	16.44	16.60	16.56	16.58						
16	16QAM	36	20	16.40	16.54	16.63	16.69	16.54				17	1	
16	16QAM	36	39	16.68	16.46	16.60	16.42	16.46						
16	16QAM	75	0	16.43	16.40	16.45	16.45	16.45						
16	256QAM	1	0	14.45	14.35	14.50	14.40	14.46				15	3	
16	256QAM	1	37	14.51	14.42	14.46	14.45	14.45						
16	256QAM	1	74	14.52	14.41	14.40	14.45	14.49						
16	256QAM	36	0	14.23	14.31	14.41	14.33	14.32				15	3	
16	256QAM	36	20	14.53	14.32	14.48	14.47	14.45						
16	256QAM	36	39	14.16	14.41	14.53	14.44	14.41						
16	256QAM	75	0	14.36	14.37	14.42	14.44	14.43						
Channel				39750	40160	40620	41058	41540						
Frequency (MHz)				2501.5	2547.5	2593.5	2639.5	2685.5						
16	QPSK	1	0	16.49	16.49	16.49	16.73	16.73				18	0	
16	QPSK	1	25	16.55	16.70	16.59	16.70	16.59						
16	QPSK	1	49	16.71	16.58	16.65	16.72	16.70						
16	QPSK	25	0	16.58	16.48	16.65	16.65	16.65				18	0	
16	QPSK	25	12	16.49	16.57	16.67	16.64	16.59						
16	QPSK	25	25	16.69	16.61	16.44	16.53	16.73						
16	QPSK	50	0	16.43	16.50	16.58	16.48	16.58				18	0	
16	16QAM	1	0	16.67	16.59	16.81	16.48	16.48						
16	16QAM	1	25	16.54	16.60	16.50	16.58	16.48						
16	16QAM	1	49	16.62	16.54	16.48	16.71	16.63				18	0	
16	16QAM	25	0	16.44	16.63	16.58	16.34	16.53						
16	16QAM	25	12	16.29	16.41	16.51	16.43	16.43						
16	16QAM	25	25	16.48	16.45	16.52	16.53	16.54				18	0	
16	16QAM	50	0	16.39	16.37	16.58	16.29	16.49						
16	16QAM	50	0	16.63	16.47	16.62	16.52	16.70						
16	16QAM	1	25	16.48	16.50	16.55	16.67	16.39				18	0	
16	16QAM	1	49	16.57	16.46	16.60	16.61	16.45						
16	16QAM	25	0	16.48	16.36	16.61	16.00	16.27						
16	16QAM	25	12	16.43	16.50	16.60	16.58	16.41				17	1	
16	16QAM	25	25	16.58	16.56	16.50	16.52	16.49						
16	16QAM	50	0	16.32	16.34	16.41	16.37	16.35						
16	256QAM	1	0	14.46	14.35	14.50	14.49	14.44				15	3	
16	256QAM	1	25	14.13	14.40	14.33	14.46	14.46						
16	256QAM	1	49	14.53	14.42	14.43	14.45	14.50						
16	256QAM	25	0	14.23	14.29	14.38	14.31	14.35				15	3	
16	256QAM	25	0	14.42	14.39	14.47	14.44	14.43						
16	256QAM	25	25	14.15	14.35	14.51	14.45	14.45						
16	256QAM	50	0	14.51	14.39	14.40	14.45	14.49						
Channel				3967.5	40160	40620	41058	41565						
Frequency (MHz)				2687.5	2743.5	2799.5	2855.5	2911.5						
5	QPSK	1	0	16.72	16.63	16.88	16.72	16.63				18	0	
5	QPSK	1	12	16.62	16.71	16.67	16.72	16.63						
5	QPSK	1	24	16.79	16.64	16.62	16.82	16.71						
5	QPSK	12	0	16.62	16.64	16.73	16.67	16.64				18	0	
5	QPSK	12	7	16.54	16.58	16.56	16.50	16.58						
5	QPSK	12	13	16.61	16.62	16.55	16.63	16.68						
5	QPSK	25	0	16.53	16.54	16.64	16.55	16.49				18	0	
5	16QAM	1	0	16.64	16.67	16.77	16.52	16.51						
5	16QAM	1	12	16.60	16.63	16.50	16.52	16.49						
5	16QAM	1	24	16.69	16.64	16.50	16.76	16.65				18	0	
5	16QAM	1	12	16.68	16.61	16.50	16.75	16.61						
5	16QAM	12	7	16.38	16.44	16.60	16.55	16.58						
5	16QAM	12	13	16.60	16.52	16.59	16.51	16.67				18	0	
5	16QAM	25	0	16.40	16.52	16.62	16.43	16.42						
5	16QAM	1	0	16.60	16.44	16.60	16.59	16.64						
5	16QAM	1	12	16.42	16.53	16.60	16.64	16.58				17	1	
5	16QAM	1	24	16.66	16.51	16.64	16.71	16.54						
5	16QAM	25	0	16.38	16.55	16.62	16.47	16.48						
5	16QAM	25	12	16.46	16.40	16.55	16.34	16.52				15	3	
5	16QAM	25	13	16.41	16.46	16.53	16.43	16.43						
5	256QAM	1	0	14.10	14.38	14.49	14.42	14.44						
5	256QAM	1	24	14.53	14.36	14.39	14.46	14.53				15	3	
5	256QAM	1	48	14.21	14.29	14.44	14.43	14.43						
5	256QAM	1	72	14.42	14.33	14.50	14.46	14.45						
5	256QAM	12	0	14.34	14.42	14.54	14.46	14.42				15		3
5	256QAM	12	13	14.44	14.37	14.56	14.46	14.46						
5	256QAM	12	25	14.14	14.34	14.50	14.44	14.45						



Band 42 FCC Part27Q Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)		
Channel				42190	42590	42990				
Frequency (MHz)				3445	3500	3545				
20	QPSK	1	0	15.51	15.52	15.47	16.4	0		
20	QPSK	1	49	15.46	15.53	15.44				
20	QPSK	1	99	15.45	15.57	15.44				
20	QPSK	50	0	15.48	15.54	15.50				
20	QPSK	50	24	15.36	15.48	15.38	16.4	0		
20	QPSK	50	50	15.37	15.45	15.39				
20	QPSK	100	0	15.38	15.47	15.37				
20	HQAM	1	0	15.44	15.56	15.43				
20	HQAM	1	49	15.40	15.52	15.46	16.4	0		
20	HQAM	1	99	15.31	15.44	15.37				
20	HQAM	50	0	15.40	15.53	15.39				
20	HQAM	50	24	15.46	15.55	15.47				
20	HQAM	50	50	15.27	15.37	15.22	16.4	0		
20	HQAM	100	0	15.27	15.47	15.27				
20	84QAM	1	0	15.25	15.35	15.24				
20	84QAM	1	49	15.49	15.52	15.40				
20	84QAM	1	99	15.38	15.45	15.35	16.4	0		
20	84QAM	50	0	15.31	15.39	15.30				
20	84QAM	50	24	15.38	15.42	15.36				
20	84QAM	50	50	15.40	15.52	15.43				
20	84QAM	100	0	15.37	15.48	15.34	16.4	0		
20	256QAM	1	0	15.30	15.43	15.29				
20	256QAM	1	49	15.44	15.47	15.38				
20	256QAM	1	99	15.48	15.54	15.45				
20	256QAM	50	0	15.39	15.47	15.38	16.4	0		
20	256QAM	50	24	15.33	15.39	15.35				
20	256QAM	50	50	15.47	15.57	15.47				
20	256QAM	100	0	15.39	15.39	15.39				
Channel				42195	42595	43015	Tune-up Int. (dBm)	MPR (dB)		
Frequency (MHz)				3447.5	3500	3547.5				
15	QPSK	1	0	15.44	15.52	15.30	16.4	0		
15	QPSK	1	37	15.32	15.44	15.37				
15	QPSK	1	74	15.36	15.44	15.36				
15	QPSK	36	0	15.34	15.39	15.38				
15	QPSK	36	20	15.30	15.39	15.23	16.4	0		
15	QPSK	36	56	15.39	15.49	15.29				
15	QPSK	75	0	15.32	15.32	15.31				
15	HQAM	1	0	15.40	15.45	15.37				
15	HQAM	1	37	15.28	15.45	15.39	16.4	0		
15	HQAM	1	74	15.21	15.33	15.22				
15	HQAM	36	0	15.26	15.40	15.34				
15	HQAM	36	20	15.41	15.45	15.34				
15	HQAM	36	56	15.13	15.28	15.13	16.4	0		
15	HQAM	75	0	15.13	15.33	15.15				
15	HQAM	1	0	15.15	15.39	15.19				
15	HQAM	1	37	15.38	15.43	15.28				
15	HQAM	1	74	15.32	15.31	15.21	16.4	0		
15	HQAM	36	0	15.20	15.37	15.24				
15	HQAM	36	20	15.25	15.30	15.24				
15	HQAM	36	56	15.20	15.27	15.22				
15	HQAM	75	0	15.25	15.35	15.24	16.4	0		
15	256QAM	1	0	15.25	15.36	15.17				
15	256QAM	1	37	15.28	15.34	15.20				
15	256QAM	1	74	15.41	15.45	15.31				
15	256QAM	36	0	15.33	15.33	15.25	16.4	0		
15	256QAM	36	20	15.30	15.30	15.26				
15	256QAM	36	56	15.34	15.47	15.33				
15	256QAM	75	0	15.19	15.30	15.20				
Channel				42190	42590	43015	Tune-up Int. (dBm)	MPR (dB)		
Frequency (MHz)				3445	3500	3545				
10	QPSK	1	0	15.44	15.44	15.40	16.4	0		
10	QPSK	1	25	15.31	15.50	15.37				
10	QPSK	1	49	15.36	15.40	15.41				
10	QPSK	36	0	15.41	15.45	15.47				
10	QPSK	25	12	15.22	15.35	15.24	16.4	0		
10	QPSK	25	25	15.34	15.37	15.32				
10	QPSK	50	0	15.34	15.35	15.26				
10	HQAM	1	0	15.34	15.41	15.34				
10	HQAM	1	25	15.37	15.45	15.38	16.4	0		
10	HQAM	1	49	15.24	15.37	15.31				
10	HQAM	25	0	15.28	15.44	15.25				
10	HQAM	25	12	15.41	15.42	15.40				
10	HQAM	25	25	15.20	15.23	15.08	16.4	0		
10	HQAM	50	0	15.14	15.36	15.14				
10	HQAM	1	0	15.20	15.22	15.16				
10	HQAM	1	25	15.43	15.39	15.34				
10	HQAM	1	49	15.24	15.37	15.28	16.4	0		
10	HQAM	25	0	15.21	15.28	15.25				
10	HQAM	25	12	15.30	15.36	15.26				
10	HQAM	25	25	15.29	15.36	15.30				
10	HQAM	50	0	15.31	15.35	15.29	16.4	0		
10	256QAM	1	0	15.20	15.37	15.25				
10	256QAM	1	25	15.29	15.42	15.30				
10	256QAM	1	49	15.42	15.45	15.35				
10	256QAM	25	0	15.32	15.38	15.30	16.4	0		
10	256QAM	25	12	15.30	15.30	15.20				
10	256QAM	25	25	15.42	15.45	15.40				
10	256QAM	50	0	15.18	15.28	15.17				
Channel				42195	42595	43015	Tune-up Int. (dBm)	MPR (dB)		
Frequency (MHz)				3452.5	3500	3547.5				
5	QPSK	1	0	15.41	15.54	15.34	16.4	0		
5	QPSK	1	12	15.34	15.41	15.30				
5	QPSK	1	24	15.31	15.40	15.35				
5	QPSK	12	0	15.38	15.47	15.40				
5	QPSK	12	7	15.25	15.34	15.30	16.4	0		
5	QPSK	12	13	15.31	15.32	15.27				
5	QPSK	26	0	15.28	15.39	15.27				
5	HQAM	1	0	15.31	15.40	15.30				
5	HQAM	1	12	15.37	15.39	15.42	16.4	0		
5	HQAM	1	24	15.27	15.38	15.25				
5	HQAM	12	0	15.27	15.40	15.24				
5	HQAM	12	7	15.40	15.50	15.37				
5	HQAM	12	13	15.15	15.27	15.14	16.4	0		
5	HQAM	25	0	15.16	15.33	15.20				
5	HQAM	1	0	15.21	15.30	15.13				
5	HQAM	1	12	15.41	15.40	15.37				
5	84QAM	1	24	15.35	15.38	15.27	16.4	0		
5	84QAM	12	0	15.27	15.30	15.25				
5	84QAM	12	7	15.32	15.33	15.31				
5	84QAM	12	13	15.27	15.40	15.29				
5	84QAM	26	0	15.31	15.38	15.26	16.4	0		
5	256QAM	1	0	15.23	15.31	15.15				
5	256QAM	1	12	15.37	15.35	15.23				
5	256QAM	1	24	15.44	15.45	15.39				
5	256QAM	12	0	15.31	15.33	15.34	16.4	0		
5	256QAM	12	7	15.25	15.26	15.29				
5	256QAM	12	13	15.38	15.45	15.34				
5	256QAM	25	0	15.25	15.22	15.22				

Band 42 FCC Part96 Ant8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)	
Channel				43190	43540	43890			
Frequency (MHz)				3445	3500	3545			
20	QPSK	1	0	15.37	15.55	15.41	16.4	0	
20	QPSK	1	49	15.35	15.46	15.36			
20	QPSK	1	99	15.35	15.40	15.38			
20	QPSK	50	0	15.36	15.48	15.44			
20	QPSK	50	24	15.30	15.38	15.32	16.4	0	
20	QPSK	100	0	15.31	15.34	15.33	16.4	0	
20	QPSK	100	0	15.31	15.34	15.33			
20	QPSK	100	0	15.31	15.34	15.33			
20	QPSK	100	0	15.31	15.34	15.33			
20	QPSK	1	49	15.30	15.39	15.34	16.4	0	
20	QPSK	1	99	15.30	15.34	15.31			
20	QPSK	50	0	15.32	15.44	15.37			
20	QPSK	50	0	15.32	15.44	15.37			
20	QPSK	50	24	15.22	15.29	15.24	16.4	0	
20	QPSK	50	24	15.22	15.29	15.24			
20	QPSK	100	0	15.23	15.34	15.27			
20	QPSK	100	0	15.23	15.34	15.27			
20	QPSK	1	49	15.18	15.28	15.19	16.4	0	
20	QPSK	1	99	15.18	15.21	15.17			
20	QPSK	50	0	15.21	15.48	15.39			
20	QPSK	50	0	15.21	15.48	15.39			
20	QPSK	50	24	15.28	15.29	15.22	16.4	0	
20	QPSK	50	24	15.28	15.29	15.22			
20	QPSK	100	0	15.14	15.28	15.17			
20	QPSK	100	0	15.14	15.28	15.17			
Channel				43165 <th>43510<th>43815<th colspan="3"></th></th></th>	43510 <th>43815<th colspan="3"></th></th>	43815 <th colspan="3"></th>			
Frequency (MHz)				3442.5	3497.5	3532.5			
15	QPSK	1	37	15.22	15.38	15.31	16.4	0	
15	QPSK	1	74	15.26	15.38	15.29			
15	QPSK	1	111	15.29	15.38	15.28			
15	QPSK	36	20	15.22	15.26	15.14			
15	QPSK	36	20	15.22	15.26	15.14	16.4	0	
15	QPSK	36	20	15.22	15.26	15.14			
15	QPSK	36	20	15.22	15.26	15.14			
15	QPSK	75	0	15.17	15.17	15.08			
15	QPSK	1	0	15.31	15.33	15.24	16.4	0	
15	QPSK	1	37	15.20	15.31	15.22			
15	QPSK	1	74	15.13	15.21	15.15			
15	QPSK	36	0	15.18	15.37	15.24			
15	QPSK	36	0	15.23	15.29	15.28	16.4	0	
15	QPSK	36	39	15.13	15.19	15.08			
15	QPSK	75	0	15.12	15.12	15.04			
15	QPSK	75	0	15.12	15.12	15.04			
15	QPSK	1	37	15.27	15.31	15.17	16.4	0	
15	QPSK	1	74	15.26	15.36	15.24			
15	QPSK	36	0	15.12	15.36	15.22			
15	QPSK	36	0	15.12	15.36	15.22			
15	QPSK	36	20	15.12	15.13	15.10	16.4	0	
15	QPSK	36	20	15.12	15.13	15.10			
15	QPSK	75	0	15.20	15.21	15.12			
15	QPSK	75	0	15.20	15.21	15.12			
15	QPSK	1	37	15.27	15.31	15.17	16.4	0	
15	QPSK	1	74	15.27	15.31	15.17			
15	QPSK	36	20	15.19	15.24	15.14			
15	QPSK	36	20	15.19	15.24	15.14			
15	QPSK	36	39	15.28	15.40	15.24	16.4	0	
15	QPSK	36	39	15.28	15.40	15.24			
15	QPSK	75	0	15.12	15.12	15.08			
15	QPSK	75	0	15.12	15.12	15.08			
Channel				43140	43590	43840			
Frequency (MHz)				3435	3490	3535			
10	QPSK	1	0	15.38	15.38	15.38	16.4	0	
10	QPSK	1	25	15.22	15.40	15.28			
10	QPSK	1	49	15.34	15.29	15.30			
10	QPSK	25	12	15.14	15.21	15.16			
10	QPSK	25	12	15.14	15.21	15.16	16.4	0	
10	QPSK	25	12	15.14	15.21	15.16			
10	QPSK	25	12	15.14	15.21	15.16			
10	QPSK	50	0	15.24	15.23	15.18			
10	QPSK	1	0	15.23	15.30	15.26	16.4	0	
10	QPSK	1	25	15.29	15.31	15.27			
10	QPSK	1	49	15.19	15.26	15.23			
10	QPSK	25	0	15.15	15.16	15.16			
10	QPSK	25	12	15.35	15.36	15.34	16.4	0	
10	QPSK	25	12	15.35	15.36	15.34			
10	QPSK	50	0	15.13	15.12	15.13			
10	QPSK	50	0	15.13	15.12	15.13			
10	QPSK	50	0	15.17	15.18	15.17	16.4	0	
10	QPSK	50	0	15.17	15.18	15.17			
10	QPSK	50	0	15.17	15.18	15.17			
10	QPSK	50	0	15.17	15.18	15.17			
10	QPSK	1	25	15.37	15.38	15.22	16.4	0	
10	QPSK	1	49	15.17	15.28	15.19			
10	QPSK	25	0	15.11	15.13	15.17			
10	QPSK	25	0	15.11	15.13	15.17			
10	QPSK	25	12	15.24	15.24	15.12	16.4	0	
10	QPSK	25	12	15.24	15.24	15.12			
10	QPSK	50	0	15.21	15.27	15.07			
10	QPSK	50	0	15.21	15.27	15.07			
10	QPSK	50	0	15.08	15.11	15.11	16.4	0	
10	QPSK	50	0	15.08	15.11	15.11			
10	QPSK	50	0	15.08	15.11	15.11			
10	QPSK	50	0	15.08	15.11	15.11			
10	QPSK	1	25	15.21	15.28	15.15	16.4	0	
10	QPSK	1	49	15.35	15.34	15.20			
10	QPSK	25	0	15.22	15.23	15.23			
10	QPSK	25	0	15.22	15.23	15.23			
10	QPSK	25	12	15.21	15.16	15.18	16.4	0	
10	QPSK	25	12	15.21	15.16	15.18			
10	QPSK	25	12	15.21	15.16	15.18			
10	QPSK	25	12	15.21	15.16	15.18			
10	QPSK	25	12	15.27	15.37	15.31	16.4	0	
10	QPSK	25	12	15.27	15.37	15.31			
10	QPSK	25	12	15.27	15.37	15.31			
10	QPSK	25	12	15.27	15.37	15.31			
Channel				43115 <th>43565</th> <th>43815</th> <th colspan="3"></th>	43565	43815			
Frequency (MHz)				3430	3485	3530			
5	QPSK	1	12	15.33	15.46	15.36	16.4	0	
5	QPSK	1	12	15.27	15.36	15.28			
5	QPSK	12	0	15.11	15.25	15.25			
5	QPSK	12	0	15.11	15.25	15.25			
5	QPSK	12	0	15.11	15.25	15.25	16.4	0	
5	QPSK	12	0	15.11	15.25	15.25			
5	QPSK	12	0	15.11	15.25	15.25			
5	QPSK	25	0	15.18	15.27	15.13			
5	QPSK	1	12	15.21	15.38	15.30	16.4	0	
5	QPSK	1	12	15.21	15.38	15.30			
5	QPSK	12	0	15.11	15.22	15.10			
5	QPSK	12	0	15.11	15.22	15.10			
5	QPSK	1	24	15.12	15.31	15.17	16.4	0	
5	QPSK	1	24	15.12	15.31	15.17			
5	QPSK	12	0	15.20	15.20	15.16			
5	QPSK	12	0	15.20	15.20	15.16			
5	QPSK	12	7	15.30	15.30	15.27	16.4	0	
5	QPSK	12	7	15.30	15.30	15.27			
5	QPSK	12	13	15.01	15.21	15.00			
5	QPSK	12	13	15.04	15.21	15.00			
5	QPSK	1	12	15.08	15.05	15.05	16.4	0	
5	QPSK	1	12	15.08	15.05	15.05			
5	QPSK	1	12	15.08	15.05	15.05			
5	QPSK	1	12	15.08	15.05	15.05			
5	QPSK	1	12	15.17	15.24	15.12	16.4	0	
5	QPSK	1	12	15.17	15.24	15.12			
5	QPSK	12	0	15.23	15.23	15.21			
5	QPSK	12	0	15.23	15.23	15.21			
5	QPSK	1	25	15.23	15.21	15.17	16.4	0	
5	QPSK	1	25	15.23	15.21	15.17			
5	QPSK	12	0	15.13	15.23	15.13			
5	QPSK	12	0	15.13	15.23	15.13			
5	QPSK	1	12	15.32	15.24	15.30	16.4	0	
5	QPSK	1	12	15.32	15.24	15.30			
5	QPSK	1	24	15.35	15.43	15.31			
5	QPSK	1	24	15.35	15.43	15.31			
5	QPSK	1	12	15.22	15.27	15.28	16.4	0	
5	QPSK	1	12	15.22	15.27	15.28			
5	QPSK	12	7	15.17	15.15	15.22			
5	QPSK	12	7	15.17	15.15	15.22			
5	QPSK	12	13	15.30	15.32	15.26	16.4	0	
5	QPSK	12	13	15.30	15.32	15.26			
5	QPSK	12	13	15.11	15.27	15.17			
5	QPSK	12	13	15.11	15.27	15.17			



Band 43 for FCC use Ant8											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				43695	44095	44495					
Frequency (MHz)				3697.5	3697.5	3697.5					
20	QPSK	1	0	17.06	17.15	17.09	18.1	0			
20	QPSK	1	49	17.06	17.13	17.00					
20	QPSK	1	98	16.93	17.00	16.92					
20	QPSK	50	0	17.04	17.15	17.09					
20	QPSK	50	24	17.02	17.08	16.93	18.1	0			
20	QPSK	50	50	17.02	17.03	16.90					
20	QPSK	100	0	17.03	17.05	17.04					
20	16QAM	1	0	15.94	17.05	16.99					
20	16QAM	1	49	17.00	17.12	17.02	18.1	0			
20	16QAM	1	99	16.89	17.01	16.86					
20	16QAM	50	0	16.96	17.00	16.92					
20	16QAM	50	24	16.99	17.05	16.90					
20	16QAM	50	50	17.05	17.16	17.01	18	0.1			
20	16QAM	100	0	16.98	17.02	16.90					
20	8QAM	1	0	16.95	17.02	16.85					
20	8QAM	1	49	17.06	17.14	17.09					
20	8QAM	1	99	16.95	17.00	16.80	17	1.1			
20	8QAM	50	0	16.93	16.91	16.80					
20	8QAM	50	24	16.00	16.08	15.93					
20	8QAM	50	50	16.10	16.11	16.00					
20	8QAM	100	0	15.92	16.04	15.90	15	3.1			
20	25QAM	1	0	14.02	14.04	13.98					
20	25QAM	1	49	13.98	14.02	14.00					
20	25QAM	1	99	14.06	14.11	13.96					
20	25QAM	50	0	14.02	14.02	14.04	15	3.1			
20	25QAM	50	24	13.94	13.97	13.87					
20	25QAM	50	50	14.05	14.03	14.04					
20	25QAM	100	0	13.98	14.00	13.95					
Channel				43665	44095	44515					
Frequency (MHz)				3694.5	3694.5	3699.5					
15	QPSK	1	0	16.94	17.02	17.03	18.1	0			
15	QPSK	1	47	17.01	17.01	16.96					
15	QPSK	1	74	16.88	16.94	16.81					
15	QPSK	36	0	16.84	17.00	17.02					
15	QPSK	36	20	16.98	17.01	16.86	18.1	0			
15	QPSK	36	56	16.86	16.87	16.79					
15	QPSK	75	0	17.00	17.05	16.91					
15	16QAM	1	0	16.87	16.96	16.85					
15	16QAM	1	47	17.02	17.02	16.97	18.1	0			
15	16QAM	1	74	16.82	16.99	16.79					
15	16QAM	36	0	16.89	16.91	16.82					
15	16QAM	36	20	16.82	16.92	16.84					
15	16QAM	36	56	16.91	17.06	16.90	18	0.1			
15	16QAM	75	0	16.87	16.96	16.93					
15	16QAM	1	0	16.76	16.94	16.84					
15	16QAM	1	27	17.02	17.10	17.05					
15	8QAM	1	74	16.76	16.91	16.94	18	0.1			
15	8QAM	36	0	16.85	16.97	16.77					
15	8QAM	36	20	15.97	16.04	15.85					
15	8QAM	36	56	16.89	16.92	16.80					
15	8QAM	75	0	15.94	15.95	15.95	17	1.1			
15	25QAM	1	0	13.83	14.02	13.97					
15	25QAM	1	47	13.95	14.02	13.94					
15	25QAM	1	74	14.03	14.06	13.85					
15	25QAM	36	0	13.88	14.00	13.95	15	3.1			
15	25QAM	36	20	13.91	13.95	13.82					
15	25QAM	36	56	13.96	13.90	13.91					
15	25QAM	75	0	13.96	14.01	13.86					
Channel				43640	44095	44540					
Frequency (MHz)				3692.0	3692.0	3697.0					
10	QPSK	1	0	17.08	17.12	17.01	18.1	0			
10	QPSK	1	25	17.03	17.08	16.90					
10	QPSK	1	49	16.83	17.00	16.79					
10	QPSK	25	0	16.93	17.05	16.96					
10	QPSK	25	12	16.97	17.02	16.80	18.1	0			
10	QPSK	25	25	16.96	16.98	16.89					
10	QPSK	50	0	16.88	16.96	17.00					
10	16QAM	1	0	16.88	17.00	16.90					
10	16QAM	1	25	16.85	17.04	16.98	18.1	0			
10	16QAM	1	49	16.83	16.87	16.80					
10	16QAM	25	0	16.89	16.99	16.84					
10	16QAM	25	12	16.87	17.02	16.86					
10	16QAM	50	0	16.89	17.03	16.88	18	0.1			
10	16QAM	50	25	16.85	16.96	16.84					
10	16QAM	1	0	16.84	16.80	16.74					
10	16QAM	1	25	17.00	17.05	17.05					
10	8QAM	1	25	16.77	16.98	16.95	18	0.1			
10	8QAM	25	0	15.88	15.90	15.78					
10	8QAM	25	12	15.87	15.97	15.81					
10	8QAM	25	25	16.06	16.02	15.91					
10	8QAM	50	0	15.85	16.02	15.98	17	1.1			
10	25QAM	1	0	14.00	13.97	13.94					
10	25QAM	1	25	13.91	13.96	13.97					
10	25QAM	1	49	14.00	14.02	13.85					
10	25QAM	25	0	13.98	14.07	13.83	15	3.1			
10	25QAM	25	12	13.91	13.91	13.86					
10	25QAM	25	25	13.95	13.95	14.01					
10	25QAM	50	0	13.89	14.06	13.96					

Band 48_FCC Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mode Ch / Freq	Power High Mode Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55836	56150	56646			
Frequency (MHz)				3699.5	3699.5	3699.5	3699.5			
20	QPSK	1	0	17.30	17.35	17.31	17.26	18.1	0	
20	QPSK	1	49	17.02	17.08	17.12	17.06			
20	QPSK	1	99	17.13	17.21	17.09	17.01			
20	QPSK	50	0	17.16	17.21	17.14	17.05			
20	QPSK	50	24	17.08	17.13	17.08	16.98	18.1	0	
20	QPSK	50	50	17.11	17.16	17.05	17.04			
20	QPSK	100	0	16.96	17.08	17.04	16.90			
20	16QAM	1	0	17.03	17.14	17.04	16.94	18.1	0	
20	16QAM	1	49	17.11	17.15	17.09	16.95			
20	16QAM	1	99	17.00	17.06	17.02	16.95			
20	16QAM	50	0	17.03	17.13	17.06	16.94			
20	16QAM	50	24	16.89	17.01	16.97	16.85	18	0.1	
20	16QAM	50	50	17.07	17.12	17.09	16.96			
20	16QAM	100	0	17.02	17.16	17.02	16.90			
20	8QAM	1	0	17.04	17.11	16.97	16.95	18	0.1	
20	8QAM	1	49	17.10	17.16	17.01	16.88			
20	8QAM	1	99	16.93	16.99	16.97	16.85			
20	8QAM	50	0	16.88	16.97	16.94	16.87			
20	8QAM	50	24	16.89	16.97	16.94	16.87	17	1.1	
20	8QAM	100	0	16.95	16.99	16.97	16.88			
20	25QAM	1	0	14.25	14.29	14.22	14.26			
20	25QAM	1	49	17.10	17.15	17.02	16.98	18	0.1	
20	25QAM	1	99	14.10	14.28	14.09	14.03			
20	25QAM	50	0	14.24	14.29	14.22	14.16			
20	25QAM	50	24	14.27	14.37	14.21	14.23	15	3.1	
20	25QAM	100	0	14.04	14.06	14.05	14.00			
20	25QAM	100	50	14.04	14.06	14.05	14.00			
Channel				56115	56628	56940	56665			
Frequency (MHz)				3700.5	3700.5	3700.5	3700.5			
10	QPSK	1	0	17.19	17.21	17.27	17.18	18.1	0	
10	QPSK	1	47	17.00	17.06	17.09	17.06			
10	QPSK	1	74	17.18	17.18	17.01	16.98			
10	QPSK	50	0	17.17	17.18	17.07	16.99			
10	QPSK	50	24	17.04	17.07	17.02	16.98	18.1	0	
10	QPSK	50	50	17.03	17.07	17.05	16.92			
10	QPSK	75	0	16.89	16.97	16.99	16.87			
10	16QAM	1	0	17.01	17.12	16.93	16.87	18.1	0	
10	16QAM	1	47	17.13	17.13	16.94	16.86			
10	16QAM	1	74	17.00	17.01	16.87	16.93			
10	16QAM	50	0	16.97	17.11	16.88	16.94			
10	16QAM	50	24	16.88	16.93	16.92	16.83	17	1.1	
10	16QAM	50	50	17.05	17.07	17.02	16.96			
10	16QAM	75	0	17.00	17.11	16.96	16.89			
10	8QAM	1	0	16.92	17.10	16.94	16.86	18	0.1	
10	8QAM	1	47	17.03	17.13	16.97	16.95			
10	8QAM	1	74	16.96	16.96	16.81	16.82			
10	8QAM	50	0	16.93	16.07	15.94	15.77			
10	8QAM	50	24	15.83	15.89	15.85	15.77	17	1.1	
10	8QAM	50	50	15.90	15.92	15.88	15.77			
10	8QAM	75	0	16.03	16.05	15.82	15.65			
10	25QAM	1	0	13.85	14.03	14.01	14.09	15	3.1	
10	25QAM	1	74	14.02	14.23	14.09	14.04			
10	25QAM	50	0	13.96	14.08	14.06	14.15			
10	25QAM	50	24	14.24	14.27	14.22	14.26	15	3.1	
10	25QAM	100	0	13.92	13.95	14.00	14.04			
10	25QAM	100	50	13.98	14.08	14.00	14.00			
Channel				56290	56616	56948	56960			
Frequency (MHz)				3701.5	3701.5	3701.5	3701.5			
10	QPSK	1	0	17.21	17.23	17.23	17.18	18.1	0	
10	QPSK	1	25	16.87	17.02	17.07	17.02			
10	QPSK	1	50	17.09	17.09	16.96	16.87			
10	QPSK	25	0	17.08	17.05	16.99	16.95			
10	QPSK	25	12	16.91	17.08	16.97	16.87	18.1	0	
10	QPSK	25	37	17.07	17.05	16.98	16.92			
10	QPSK	50	0	16.88	17.02	17.00	16.75			
10	16QAM	1	0	16.91	17.02	16.98	16.79	18.1	0	
10	16QAM	1	25	17.09	17.09	16.96	16.87			
10	16QAM	1	49	16.83	16.90	16.87	16.87			
10	16QAM	25	0	17.11	17.11	16.86	16.91			
10	16QAM	25	12	16.86	16.98	16.92	16.79	18	0.1	
10	16QAM	25	37	16.93	16.98	16.92	16.87			
10	16QAM	50	0	16.01	16.08	15.91	15.80			
10	8QAM	1	0	17.01	16.96	16.91	16.80	18	0.1	
10	8QAM	1	25	17.01	17.06	16.88	16.91			
10	8QAM	1	49	16.88	16.98	16.88	16.74			
10	8QAM	25	0	15.88	15.96	15.91	15.82			
10	8QAM	25	12	15.74	15.87	15.79	15.72	17	1.1	
10	8QAM	25	37	15.89	15.92	15.84	15.71			
10	8QAM	50	0	15.00	15.06	15.04	15.88			
10	25QAM	1	0	14.19	14.29	14.26	14.19	15	3.1	
10	25QAM	1	25	13.81	13.95	14.03	14.01			
10	25QAM	1	49	14.03	14.12	13.94	13.93			
10	25QAM	25	0	14.03	14.08	14.00	14.17	15	3.1	
10	25QAM	25	12	14.12	14.36	14.12	14.26			
10	25QAM	25	37	14.04	14.01	14.01	14.04			
Channel				56265	56604	56970	56976			
Frequency (MHz)				3702.5	3702.5	3702.5	3702.5			
5	QPSK	1	0	17.16	17.16	17.23	17.13	18.1	0	
5	QPSK	1	12	16.80	17.03	16.87	16.90			
5	QPSK	1	25	17.09	17.09	16.94	16.87			
5	QPSK	12	0	17.10	17.17	17.11	17.02			
5	QPSK	12	7	17.00	17.10	17.02	16.92	18.1	0	
5	QPSK	12	17	17.11	17.02	16.95	16.82			
5	QPSK	25	0	16.91	16.98	16.91	16.80			
5	QPSK	25	1	16.97	17.07	16.90	16.81	18.1	0	
5	QPSK	25	12	16.90	17.02	17.01	16.94			
5	QPSK	1	24	16.04	16.96	16.93	16.89			
5	16QAM	1	0	16.87	16.97	16.96	16.81	18	0.1	
5	16QAM	12	7	16.79	16.93	16.95	16.76			
5	16QAM	12	13	16.99	16.88	16.93	16.87			
5	16QAM	12	17	17.02	17.04	17.02	16.82			
5	8QAM	1	0	16.87	17.02	16.82	16.88	18	0.1	
5	8QAM	1	12	16.80	17.05	16.96	16.94			
5	8QAM	1	24	16.93	17.03	16.98	16.79			
5	8QAM	12	0	15.91	15.97	15.86	15.83			
5	8QAM	12	13	15.95	15.97	15.83	15.72	17	1.1	
5	8QAM	12	17	16.03	16.03	15.82	15.87			
5	8QAM	25	0	15.90	15.88	15.99	15.76			
5	25QAM	1	0	14.15	14.15	14.15	14.15	15	3.1	
5	25QAM	1	12	13.84	14.00	14.10	14.05			
5	25QAM	1	24	14.06	14.21	13.99	13.93			
5	25QAM	12	7	14.01	14.09	14.02	13.98	15	3.1	
5	25QAM	12	17	14.24	14.22	14.04	14.00			
5	25QAM	12	19	14.34	13.99	13.94	13.90			
5	25QAM	25	0	14.08	14.03	14.11	14.02	15	3.1	
5	25QAM	25	12	14.08	14.03	14.03	14.03			
5	25QAM	25	19	14.08	14.03	14.03	14.03			



Reduced Power Mode for DSB

COMMITT A/B						
Sust. Average Power (dBm)			Turn-up		Frame-Average Power (dBm)	
Tx Channel			Limit		Limit	
Frequency (MHz)			(dBm)		(dBm)	
DMM V Tx ant.						
QPRS 1 Tx ant.	32.60	32.64	32.67	33.00	23.00	23.04
QPRS 2 Tx ant.	29.18	29.68	29.40	30.00	23.18	23.68
QPRS 3 Tx ant.	28.00	28.36	28.10	29.00	21.74	22.89
QPRS 4 Tx ant.	25.00	26.00	25.97	27.00	22.00	23.00
EDGE 1 Tx ant.	25.36	25.72	25.42	26.00	16.36	16.72
EDGE 2 Tx ant.	23.76	23.87	23.72	24.00	17.76	17.77
EDGE 3 Tx ant.	22.54	22.77	22.54	23.00	18.28	18.28
EDGE 4 Tx ant.	20.46	20.60	20.46	21.00	17.46	17.46
WCDMA V Ant						
Burst			WCDMA V Ant		Turn-up	
Tx Channel			Limit		Limit	
Frequency (MHz)			(dBm)		(dBm)	
3GPP Rel99	AMR 12.2kbps	23.88	24.13	23.96	25.06	
3GPP Rel99	AMR 12.2kbps	23.02	24.22	24.00	25.00	
3GPP Rel6	HSPA Subnet-1	23.00	23.07	23.15	24.00	
3GPP Rel6	HSPA Subnet-2	22.92	23.11	23.19	24.00	
3GPP Rel6	HSPA Subnet-3	23.24	22.73	22.83	23.00	
3GPP Rel6	HSPA Subnet-4	22.42	22.71	22.82	23.00	
3GPP Rel6	DC-HSPA Subnet-1	22.66	22.76	22.68	24.00	
3GPP Rel6	DC-HSPA Subnet-2	22.81	23.07	23.01	24.00	
3GPP Rel6	DC-HSPA Subnet-3	22.34	22.61	22.62	23.00	
3GPP Rel6	DC-HSPA Subnet-4	22.30	22.59	22.46	23.00	
3GPP Rel6	HSPA Subnet-1	22.84	23.11	23.00	24.00	
3GPP Rel6	HSPA Subnet-2	21.01	21.30	20.96	22.00	
3GPP Rel6	HSPA Subnet-3	21.92	22.77	22.01	23.00	
3GPP Rel6	HSPA Subnet-4	20.73	21.08	21.06	22.00	
3GPP Rel6	HSPA Subnet-5	21.89	23.03	23.12	24.00	

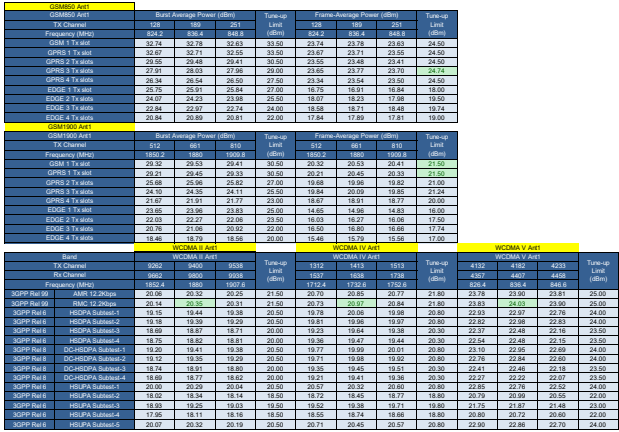
Band 5 Ant0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq (MHz)	Power Mid Ch / Freq (MHz)	Power High Ch / Freq (MHz)	Turn-up time (ms)	APR (dB)						
Channel														
800 806.5 844														
10	QPSK	1	0	22.60	22.73	22.68	24	0						
10	QPSK	1	25	22.51	22.58	22.54								
10	QPSK	1	49	22.50	22.64	22.55								
10	QPSK	25	0	21.69	21.72	21.62								
10	QPSK	25	12	21.44	21.53	21.44	23	1						
10	QPSK	25	25	21.53	21.66	21.61								
10	QPSK	50	0	21.61	21.65	21.59								
10	16QAM	1	0	21.59	21.67	21.61								
10	16QAM	1	25	21.41	21.52	21.38	23	1						
10	16QAM	1	49	21.54	21.65	21.45								
10	16QAM	25	0	20.47	20.55	20.43								
10	16QAM	25	12	20.35	20.49	20.35								
10	16QAM	25	25	20.50	20.66	20.55	22	2						
10	16QAM	50	0	20.54	20.65	20.59								
10	64QAM	1	0	20.51	20.59	20.54								
10	64QAM	1	25	20.45	20.51	20.47								
10	64QAM	1	49	20.55	20.65	20.53	21	3						
10	64QAM	25	0	19.47	19.52	19.40								
10	64QAM	25	12	19.52	19.63	19.59								
10	64QAM	25	25	19.44	19.49	19.34								
10	64QAM	50	0	19.50	19.62	19.54	19	5						
10	256QAM	1	0	17.46	17.54	17.47								
10	256QAM	1	25	17.44	17.48	17.45								
10	256QAM	1	49	17.49	17.62	17.52								
10	256QAM	25	0	17.40	17.56	17.44	19	5						
10	256QAM	25	12	17.50	17.63	17.50								
10	256QAM	25	25	17.50	17.56	17.44								
10	256QAM	50	0	17.61	17.67	17.54								
Channel														
20405 20525 20605														
5	QPSK	1	0	22.54	22.66	22.54	24	0						
5	QPSK	1	12	22.39	22.48	22.44								
5	QPSK	1	24	22.45	22.54	22.47								
5	QPSK	12	0	21.65	21.68	21.55								
5	QPSK	12	7	21.35	21.44	21.39	23	1						
5	QPSK	12	13	21.45	21.52	21.51								
5	QPSK	25	0	21.60	21.54	21.48								
5	16QAM	1	0	21.53	21.56	21.52								
5	16QAM	1	12	21.31	21.49	21.32	23	1						
5	16QAM	1	24	21.47	21.47	21.31								
5	16QAM	12	0	20.43	20.51	20.37								
5	16QAM	12	7	20.25	20.36	20.21								
5	16QAM	12	13	20.54	20.66	20.49	22	2						
5	16QAM	25	0	20.48	20.58	20.46								
5	64QAM	1	0	20.38	20.54	20.48								
5	64QAM	1	12	20.31	20.45	20.34								
5	64QAM	1	24	20.43	20.52	20.47	21	3						
5	64QAM	12	0	19.38	19.40	19.25								
5	64QAM	12	13	19.41	19.51	19.43								
5	64QAM	12	13	19.39	19.44	19.24								
5	64QAM	25	0	19.38	19.52	19.39	19	5						
5	256QAM	1	0	17.43	17.49	17.38								
5	256QAM	1	12	17.40	17.49	17.31								
5	256QAM	1	24	17.45	17.52	17.45								
5	256QAM	12	0	17.40	17.56	17.38	19	5						
5	256QAM	12	7	17.44	17.50	17.40								
5	256QAM	12	13	17.45	17.50	17.35								
5	256QAM	25	0	17.44	17.50	17.40								
Channel														
20415 20525 20605														
5	QPSK	1	0	22.51	22.63	22.54	24	0						
5	QPSK	1	8	22.42	22.53	22.41								
5	QPSK	1	14	22.38	22.60	22.51								
5	QPSK	8	0	21.66	21.68	21.55								
5	QPSK	8	7	21.39	21.43	21.34	23	1						
5	QPSK	8	7	21.40	21.55	21.57								
5	16QAM	1	0	21.54	21.57	21.48								
5	16QAM	1	0	21.49	21.55	21.52								
5	16QAM	1	8	21.34	21.41	21.31	23	1						
5	16QAM	1	14	21.42	21.51	21.39								
5	16QAM	8	0	20.41	20.49	20.39								
5	16QAM	8	4	20.21	20.40	20.21								
5	16QAM	8	7	20.32	20.51	20.47	22	2						
5	64QAM	15	0	20.48	20.61	20.50								
5	64QAM	1	0	20.47	20.44	20.45								
5	64QAM	1	8	20.33	20.40	20.33								
5	64QAM	1	14	20.43	20.62	20.43	21	3						
5	64QAM	8	0	19.35	19.40	19.33								
5	64QAM	8	4	19.38	19.50	19.33								
5	64QAM	8	7	19.38	19.39	19.23								
5	64QAM	15	0	19.37	19.54	19.46	19	5						
5	256QAM	1	0	17.38	17.41	17.34								
5	256QAM	1	8	17.37	17.38	17.27								
5	256QAM	1	14	17.40	17.57	17.37								
5	256QAM	8	0	17.26	17.41	17.25	19	5						
5	256QAM	8	4	17.39	17.59	17.47								
5	256QAM	8	7	17.40	17.52	17.40								
5	256QAM	15	0	17.47	17.60	17.46								
Channel														
20407 20525 20605														
1.4	QPSK	1	0	22.54	22.70	22.57	24	0						
1.4	QPSK	1	3	22.40	22.50	22.49								
1.4	QPSK	1	5	22.35	22.50	22.41								
1.4	QPSK	3	0	22.64	22.67	22.48								
1.4	QPSK	3	1	22.35	22.43	22.39	23	1						
1.4	QPSK	3	3	22.41	22.52	22.48								
1.4	QPSK	3	1	21.48	21.56	21.43								
1.4	16QAM	1	0	21.48	21.52	21.50								
1.4	16QAM	1	3	21.32	21.45	21.29	23	1						
1.4	16QAM	1	5	21.48	21.52	21.40								
1.4	16QAM	3	0	21.37	21.47	21.37								
1.4	16QAM	3	1	21.52	21.42	21.20								
1.4	16QAM	3	3	21.35	21.48	21.43	22	2						
1.4	16QAM	6	0	20.43	20.56	20.49								
1.4	64QAM	1	0	20.37	20.35	20.45								
1.4	64QAM	1	3	20.40	20.40	20.39								
1.4	64QAM	1	5	20.41	20.61	20.39	22	2						
1.4	64QAM	3	0	20.32	20.49	20.32								
1.4	64QAM	3	1	20.48	20.48	20.30								
1.4	64QAM	3	3	20.39	20.40	20.28								
1.4	64QAM	6	0	19.40	19.55	19.46	21	3						
1.4	256QAM	1	0	17.40	17.47	17.35								
1.4	256QAM	1	3	17.40	17.49	17.36								
1.4	256QAM	1	5	17.43	17.49	17.38								
1.4	256QAM	3	0	17.26	17.36	17.41	19	5						
1.4	256QAM	3	1	17.41	17.52	17.45								
1.4	256QAM	3	3	17.4	17.45	17.35	19	5						
1.4	256QAM	6	0	17.54	17.57	17.43								

Band 17 Ant0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPPE (dB)				
Channel												
Frequency (MHz)												
710 711 711												
10	QPSK	1	0	22.85	22.85	22.92	24	0				
10	QPSK	1	24	22.77	22.85	22.92						
10	QPSK	1	48	22.75	22.81	22.88						
10	QPSK	25	0	21.82	21.84	21.84						
10	QPSK	25	12	21.78	21.80	21.83	23	1				
10	QPSK	25	25	21.71	21.80	21.79						
10	QPSK	50	0	21.80	21.85	21.77						
10	16QAM	1	0	20.95	20.92	20.90						
10	16QAM	1	25	21.83	21.90	21.90	23	1				
10	16QAM	1	49	21.83	21.91	21.87						
10	16QAM	25	0	20.81	20.95	20.92						
10	16QAM	25	12	20.71	20.82	20.78						
10	16QAM	25	25	20.79	20.87	20.80	22	2				
10	16QAM	50	0	20.81	20.91	20.82						
10	64QAM	1	0	21.00	21.04	21.00						
10	64QAM	1	25	20.89	20.92	20.90		22	2			
10	64QAM	1	49	20.82	20.91	20.79						
10	64QAM	25	0	19.84	19.78	19.82						
10	64QAM	25	12	19.79	19.86	19.73						
10	64QAM	25	25	19.87	19.71	19.87	21	3				
10	64QAM	50	0	19.75	19.80	19.82						
10	256QAM	1	25	17.89	17.84	17.88						
10	256QAM	1	49	17.71	17.86	17.78		19	5			
10	256QAM	25	0	17.81	17.80	17.86						
10	256QAM	25	12	17.74	17.84	17.75						
10	256QAM	25	25	17.85	17.79	17.75	19	5				
10	256QAM	50	0	17.79	17.83	17.88						
Channel												
Frequency (MHz)												
706.5 710 713.5												
5	QPSK	1	0	22.71	22.85	22.83	24	0				
5	QPSK	1	12	22.70	22.71	22.71						
5	QPSK	1	24	22.68	22.75	22.61						
5	QPSK	12	0	21.76	21.90	21.80						
5	QPSK	12	7	21.67	21.79	21.71	23	1				
5	QPSK	12	13	21.65	21.75	21.69						
5	QPSK	25	0	21.67	21.77	21.64						
5	16QAM	1	0	21.98	21.97	21.92						
5	16QAM	1	12	21.89	21.93	21.84	23	1				
5	16QAM	1	24	21.78	21.80	21.75						
5	16QAM	12	0	20.67	20.91	20.77						
5	16QAM	12	7	20.64	20.70	20.64		22	2			
5	16QAM	12	13	20.71	20.72	20.70						
5	16QAM	25	0	20.75	20.78	20.78						
5	64QAM	1	0	20.90	20.95	20.90	23	2				
5	64QAM	1	12	20.80	20.92	20.84						
5	64QAM	1	24	20.88	20.91	20.89						
5	64QAM	12	0	19.83	19.86	19.81						
5	64QAM	12	7	19.83	19.83	19.84	21	3				
5	64QAM	12	13	19.90	19.92	19.93						
5	64QAM	25	0	19.81	19.78	19.77						
5	256QAM	1	0	17.84	17.82	17.76						
5	256QAM	1	12	17.75	17.85	17.75	19	5				
5	256QAM	1	24	17.88	17.75	17.83						
5	256QAM	12	0	17.76	17.71	17.74						
5	256QAM	12	7	17.80	17.75	17.83		19	5			
5	256QAM	12	13	17.87	17.85	17.71						
5	256QAM	25	0	17.72	17.88	17.76						

Band 26 for FCC Ant0													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPPE (dB)					
Channel													
Frequency (MHz)													
821.5 831.5 841.5													
15	QPSK	1	0	22.58	22.77	22.67	24	0					
15	QPSK	1	37	22.47	22.57	22.52							
15	QPSK	1	74	22.39	22.63	22.54							
15	QPSK	36	0	21.51	21.63	21.60							
15	QPSK	36	20	21.50	21.58	21.50	23	1					
15	QPSK	36	36	21.40	21.54	21.46							
15	QPSK	75	0	21.59	21.67	21.62							
15	16QAM	1	0	21.72	21.80	21.70							
15	16QAM	1	37	21.56	21.71	21.63	23	1					
15	16QAM	1	74	21.55	21.68	21.63							
15	16QAM	36	0	20.49	20.52	20.48							
15	16QAM	36	20	20.68	20.73	20.62		22	2				
15	16QAM	36	39	20.64	20.67	20.67							
15	16QAM	75	0	20.50	20.58	20.52							
15	64QAM	1	0	20.68	20.72	20.69	22	2					
15	64QAM	1	37	20.55	20.64	20.54							
15	64QAM	1	74	20.65	20.70	20.72							
15	64QAM	36	0	19.54	19.65	19.59							
15	64QAM	36	20	19.52	19.74	19.61	21	3					
15	64QAM	36	39	19.54	19.68	19.54							
15	64QAM	75	0	19.50	19.64	19.51							
15	256QAM	1	0	17.46	17.71	17.46							
15	256QAM	1	37	17.56	17.61	17.55	19	5					
15	256QAM	1	74	17.59	17.67	17.57							
15	256QAM	36	0	17.52	17.63	17.57							
15	256QAM	36	20	17.65	17.72	17.65		19	5				
15	256QAM	36	39	17.52	17.65	17.61							
15	256QAM	75	0	17.61	17.68	17.57							
Channel													
Frequency (MHz)													
819 831.5 844													
10	QPSK	1	0	22.49	22.72	22.60	24	0					
10	QPSK	1	25	22.39	22.44	22.43							
10	QPSK	1	49	22.55	22.61	22.49							
10	QPSK	25	0	21.37	21.54	21.37							
10	QPSK	25	12	21.40	21.48	21.41	23	1					
10	QPSK	25	25	21.34	21.48	21.41							
10	QPSK	50	0	21.54	21.52	21.48							
10	16QAM	1	0	21.81	21.88	21.85							
10	16QAM	1	25	21.52	21.67	21.54	23	1					
10	16QAM	1	49	21.44	21.62	21.46							
10	16QAM	25	0	20.42	20.58	20.38							
10	16QAM	25	12	20.64	20.59	20.49		22	2				
10	16QAM	25	25	20.59	20.58	20.57							
10	16QAM	50	0	20.44	20.53	20.46							
10	64QAM	1	0	20.55	20.60	20.51	23	2					
10	64QAM	1	25	20.51	20.55	20.48							
10	64QAM	1	49	20.57	20.62	20.57							
10	64QAM	25	0	19.39	19.58	19.52							
10	64QAM	25	12	19.45	19.59	19.48	21	3					
10	64QAM	25	25	19.53	19.54	19.43							
10	64QAM	50	0	19.41	19.58	19.40							
10	256QAM	1	0	17.52	17.62	17.55							
10	256QAM	1	25	17.52	17.55	17.48	19	5					
10	256QAM	1	49	17.45	17.63	17.44							
10	256QAM	25	0	17.42	17.52	17.48							
10	256QAM	25	12	17.51	17.67	17.52		19	5				
10	256QAM	25	25	17.43	17.52	17.46							
10	256QAM	50	0	17.53	17.60	17.46							
Channel													
Frequency (MHz)													
815.5 831.5 847.5													
5	QPSK	1	0	22.47	22.64	22.57	24	0					
5	QPSK	1	12	22.36	22.47	22.48							
5	QPSK	1	24	22.50	22.57	22.49							
5	QPSK	12	0	21.37	21.51	21.46							
5	QPSK	12	7	21.40	21.47	21.45	23	1					
5	QPSK	12	14	21.34	21.48	21.41							
5	QPSK	25	0	21.45	21.61	21.44							
5	16QAM	1	0	21.83	21.88	21.88							
5	16QAM	1	12	21.52	21.66	21.54	23	1					
5	16QAM	1	24	21.47	21.65	21.46							
5	16QAM	12	0	20.37	20.53	20.41							
5	16QAM	12	7	20.59	20.59	20.51		22	2				
5	16QAM	12	14	20.46	20.53	20.42							
5	16QAM	25	0	20.46	20.53	20.46							
5	64QAM	1	0	20.47	20.54	20.46	22	2					
5	64QAM	1	12	20.47	20.54	20.46							
5	64QAM	1	24	20.37	20.48	20.35							
5	64QAM	12	0	19.37	19.48	19.41							
5	64QAM	12	7	19.51	19.63	19.53	21	3					
5	64QAM	12	14	19.56	19.59	19.41							
5	64QAM	25	0	17.49	17.67	17.54							
5	256QAM	1	0	17.45	17.48	17.47							
5	256QAM	1	12	17.45	17.48	17.43	19	5					
5	256QAM	1	24	17.38	17.47	17.43							
5	256QAM	12	0	17.40	17.53	17.43							
5	256QAM	12	7	17.54	17.69	17.51		19	5				
5	256QAM	12	14	17.46	17.53	17.46							
5	256QAM	25	0	17.46	17.62	17.46							
Channel													
Frequency (MHz)													
815.5 831.5 847.5													
3	QPSK	1	0	22.46	22.64	22.57	24	0					
3	QPSK	1	8	22.33	22.53	22.43							
3	QPSK	1	16	22.57	22.61	22.49							
3	QPSK	8	0	21.47	21.54	21.43							
3	QPSK	8	4	21.46	21.44	21.43	23	1					
3	QPSK	8	8	21.40	21.45	21.43							
3	QPSK	15	0	21.49	21.50	21.46							
3	16QAM	1	0	21.89	21.88	21.88							
3	16QAM	1	8	21.60	21.68	21.58	23	1					
3	16QAM	1	16	21.49	21.57	21.45							
3	16QAM	8	0	20.35	20.59	20.35							
3	16QAM	8	4	20.60	20.60	20.48		22	2				
3	16QAM	8	7	20.57	20.57	20.51							
3	16QAM	15	0	20.44	20.47	20.41							
3	64QAM	1	0	20.44	20.53	20.43	22	2					
3	64QAM	1	8	20.46	20.60	20.44							
3	64QAM	1	16	20.51	20.64	20.57							
3	64QAM	8	0	19.35	19.48	19.34							
3	64QAM	8	4	19.48	19.48	19.32	21	3					
3	64QAM	8	7	19.57	19.61	19.43							
3	64QAM	15	0	19.33	19.48	19.34							
3	64QAM	8	0	17.52	17.59	17.48							
3	256QAM	1	0	17.44	17.59	17.44	19	5					
3	256QAM	1	8	17.51	17.61	17.53							
3	256QAM	8	0	17.39	17.54	17.43							
3	256QAM	8	4	17.53	17.69	17.51		19	5				
3	256QAM	8	7	17.45	17.53	17.45							
3	256QAM	15	0	17.47	17.56	17.54							
Channel													
Frequency (MHz)													
26097 26099 27073													
1.4	QPSK	1	0	22.51	22.66	22.62	24	0					
1.4	QPSK	1	3	22.36	22.54	22.46							
1.4	QPSK	1	6	22.49	22.54	22.51							
1.4	QPSK	3	0	21.54	21.64	21.57							
1.4	QPSK	3	2	22.39	22.52	22.45	23	1					
1.4	QPSK	3	5	22.40	22.46	22.44							
1.4	QPSK	6	0	21.55	21.64	21.57							
1.4	16QAM	1	0	21.68	21.69	21.64							
1.4	16QAM	1	3	21.63	21.68	21.64	23	1					
1.4	16QAM	1	6	21.45	21.60	21.44							
1.4	16QAM	3	0	21.36	21.59	21.42							
1.4	16QAM	3	2	21.81	21.88	21.82		22	2				
1.4	16QAM	3	5	21.58	21.58	21.52							
1.4	16QAM	6	0	20.41	20.45	20.40							
1.4	64QAM	1	0	20.37	20.59	20.38	22	2					
1.4	64QAM	1	3	20.47	20.54	20.43							
1.4	64QAM	1	6	20.43	20.66	20.53							
1.4	64QAM	3	0	19.37	19.62	19.35							
1.4	64QAM	3	2	20.49	20.62	20.45	21	3					
1.4	64QAM	3	5	20.57	20.62	20.47							
1.4	64QAM	6	0	17.54	17.61	17.48							
1.4	256QAM	1	0	17.51	17.68	17.42							
1.4	256QAM	1	3	17.48	17.48	17.42	19	5					
1.4	256QAM	1	6	17.37	17.59	17.58							
1.4	256QAM	3	0	17.57	17.58	17.49							
1.4	256QAM	3	2	17.48	17.48	17.42		19	5				
1.4	256QAM	3	5	17.58	17.69	17.58							
1.4	256QAM	6	0	17.51	17.50	17.53							
1.4	256QAM	6	2	17.51	17.50	17.53							

Band 41 Ant0										
RF [MHz]	Modulation	RIS Size	RF Offset	Power Low Ch. Power	Power Lower Ch. Power	Power Middle Ch. Power	Power High Ch. Power	Power Power Ch. Power	Time-up (ms)	MPE (dB)
Channel										
Frequency (MHz)				39750	40155	40620	41005	41400		
20	QPSK	1	0	20.65	20.65	20.65	20.65	20.65		
20	QPSK	1	48	20.65	20.78	20.84	20.82	20.78	22	0
20	QPSK	1	96	20.69	20.78	20.84	20.82	20.84		
20	QPSK	50	24	20.78	20.81	20.85	20.86	20.81		
20	QPSK	50	24	20.76	20.80	20.86	20.80	20.92		
20	QPSK	50	24	20.88	20.96	20.89	20.88	20.89	22	0
20	QPSK	100	24	20.78	20.81	20.85	20.86	20.81		
20	16QAM	1	0	20.62	20.64	20.67	20.69	20.68		
20	16QAM	1	48	20.70	20.75	20.77	20.73	20.78	22	0
20	16QAM	1	96	20.70	20.65	20.75	20.64	20.58		
20	16QAM	50	1	18.85	19.75	20.05	18.85	19.83		
20	16QAM	50	24	19.85	19.88	19.92	19.94	19.84		
20	16QAM	50	100	19.81	19.83	19.84	19.85	19.91	21	1
20	16QAM	100	0	20.05	20.05	20.01	19.92	20.01		
20	16QAM	100	48	19.98	19.98	19.98	19.98	19.98		
20	64QAM	1	48	19.95	20.02	20.07	19.98	19.92	21	1
20	64QAM	1	96	20.07	19.92	20.17	20.08	19.98		
20	64QAM	50	19	19.48	19.48	19.58	19.34	19.44		
20	64QAM	50	24	19.35	19.23	19.33	19.17	19.25	20	2
20	64QAM	50	48	19.35	19.28	19.35	19.28	19.34		
20	64QAM	100	0	19.33	19.41	19.57	19.35	19.34		
20	256QAM	1	12	16.82	16.87	17.03	16.87	16.87	18	4
20	256QAM	1	48	16.82	16.96	16.85	16.83	16.78		
20	256QAM	1	96	16.86	17.00	17.03	16.93	16.87		
20	256QAM	50	1	16.88	16.83	16.88	16.86	16.90		
20	256QAM	50	24	16.88	16.88	16.87	16.82	16.77		
20	256QAM	100	0	16.87	16.89	16.77	16.73	16.70		
20	256QAM	100	48	16.86	16.86	16.84	16.82	16.86		
Channel										
Frequency (MHz)				39725	40173	40626	41000	41415		
15	QPSK	1	0	20.65	20.65	20.63	20.67	20.63		
15	QPSK	1	48	20.65	20.65	20.63	20.67	20.63		
15	QPSK	1	96	20.63	20.65	20.71	20.61	20.73		
15	QPSK	1	74	20.63	20.72	20.72	20.74	20.62		
15	QPSK	18	20	20.63	20.63	20.63	20.63	20.63		
15	QPSK	36	20	20.74	20.84	20.87	20.74	20.89	22	0
15	QPSK	36	20	20.74	20.84	20.87	20.74	20.89		
15	QPSK	75	0	20.73	20.76	20.86	20.84	20.77		
15	16QAM	1	0	20.68	20.71	20.64	20.68	20.71		
15	16QAM	1	48	20.68	20.71	20.64	20.68	20.71		
15	16QAM	1	96	20.68	20.71	20.64	20.68	20.71		
15	16QAM	1	74	20.70	20.73	20.68	20.65	20.51		
15	16QAM	36	0	19.83	19.69	19.65	19.80	19.70		
15	16QAM	36	0	19.83	19.79	19.75	19.86	19.56		
15	16QAM	36	36	19.71	19.79	19.79	19.72	19.79	21	1
15	16QAM	75	0	19.81	19.91	19.97	19.87	19.91		
15	16QAM	75	0	19.80	19.88	19.93	19.88	19.88		
15	64QAM	1	37	19.84	19.95	20.04	19.82	19.91	21	1
15	64QAM	1	74	19.84	19.95	20.04	19.82	19.91		
15	64QAM	36	0	19.83	19.83	19.83	19.83	19.83		
15	64QAM	36	0	19.37	19.28	19.34	19.24	19.44		
15	64QAM	36	20	19.22	19.21	19.30	19.25	19.19		
15	64QAM	36	20	19.33	19.33	19.41	19.26	19.32	20	2
15	64QAM	75	0	19.42	19.30	19.43	19.26	19.41		
15	256QAM	1	0	16.81	16.81	16.90	16.84	16.84		
15	256QAM	1	48	16.83	16.85	16.86	16.80	16.84		
15	256QAM	1	74	16.85	16.87	16.98	16.84	16.84	18	4
15	256QAM	1	96	16.86	16.74	16.84	16.76	16.81		
15	256QAM	18	20	16.87	16.87	16.87	16.87	16.87		
15	256QAM	36	20	16.84	16.81	16.84	16.68	16.89		
15	256QAM	75	0	16.88	16.78	16.86	16.53	16.86		
Channel										
Frequency (MHz)				39675	40160	40626	41000	41460		
5	QPSK	1	0	20.73	20.73	20.73	20.73	20.73		
5	QPSK	1	25	20.53	20.77	20.73	20.69	20.64	22	0
5	QPSK	1	49	20.84	20.84	20.74	20.72	20.79		
5	QPSK	25	49	20.77	20.82	20.82	20.83	20.83		
5	QPSK	25	12	20.72	20.76	20.88	20.75	20.81	22	0
5	QPSK	25	12	20.80	20.80	20.80	20.74	20.81		
5	QPSK	50	1	20.72	20.81	20.83	20.59	20.74		
5	16QAM	1	0	20.81	20.75	20.65	20.88	20.94		
5	16QAM	1	48	20.87	20.84	20.77	20.89	20.89	22	0
5	16QAM	1	49	20.57	20.50	20.72	20.40	20.64		
5	16QAM	25	0	19.72	19.85	20.04	19.84	19.76		
5	16QAM	25	12	19.83	19.83	19.83	19.90	19.82		
5	16QAM	25	19	19.74	19.75	19.75	19.80	19.70		
5	16QAM	50	0	19.83	19.85	19.85	19.92	19.89		
5	64QAM	1	25	19.85	19.96	20.10	19.80	20.02		
5	64QAM	1	25	19.85	19.90	19.97	19.88	19.90	21	1
5	64QAM	1	49	19.82	19.87	19.88	19.90	19.82		
5	64QAM	25	0	19.32	19.27	19.42	19.23	19.38		
5	64QAM	25	12	19.35	19.27	19.29	19.28	19.19		
5	64QAM	25	19	19.23	19.33	19.33	19.21	19.33	20	2
5	64QAM	50	0	19.46	19.29	19.42	19.30	19.31		
5	256QAM	1	12	16.73	16.91	16.94	16.76	16.81		
5	256QAM	1	25	16.73	16.91	16.94	16.76	16.79	18	4
5	256QAM	1	49	16.85	16.84	16.85	16.82	16.84		
5	256QAM	1	74	16.85	16.85	16.85	16.73	16.70		
5	256QAM	25	12	16.67	16.56	16.76	16.72	16.67	18	4
5	256QAM	25	19	16.67	16.57	16.67	16.61	16.63		
5	256QAM	50	0	16.86	16.72	16.82	16.59	16.85		
Channel										
Frequency (MHz)				39675	40166	40626	41000	41465		
5	QPSK	1	0	20.76	20.76	20.74	20.78	20.74		
5	QPSK	1	12	20.68	20.80	20.91	20.85	20.82	22	0
5	QPSK	1	24	20.74	20.84	20.84	20.84	20.84		
5	QPSK	12	0	20.81	20.87	20.92	20.84	20.83		
5	QPSK	12	7	20.67	20.73	20.91	20.76	20.83	22	0
5	QPSK	12	7	20.78	20.78	20.77	20.80	20.77		
5	QPSK	25	0	20.73	20.84	20.82	20.65	20.75		
5	QPSK	25	12	20.73	20.80	20.80	20.82	20.81		
5	16QAM	1	12	20.81	20.81	20.81	20.80	20.68	22	0
5	16QAM	1	24	20.60	20.58	20.70	20.52	20.48		
5	16QAM	1	12	20.76	20.76	20.76	20.76	20.76		
5	16QAM	12	7	19.89	19.77	19.99	19.74	19.98	21	1
5	16QAM	12	13	19.63	19.68	19.75	19.73	19.80		
5	16QAM	12	19	19.63	19.68	19.75	19.73	19.80		
5	64QAM	1	24	20.05	20.02	20.10	19.87	19.91		
5	64QAM	1	12	19.76	19.94	19.90	19.73	19.95	21	1
5	64QAM	1	24	19.87	19.87	19.87	19.87	19.87		
5	64QAM	12	0	19.33	19.20	19.42	19.24	19.30		
5	64QAM	12	7	19.38	19.18	19.34	19.01	19.32		
5	64QAM	12	13	19.38	19.18	19.34	19.01	19.32		
5	64QAM	25	0	19.43	19.20	19.42	19.26	19.32	20	2
5	256QAM	1	12	16.77	16.81	16.81	16.63	16.81		
5	256QAM	1	24	16.84	16.82	16.80	16.63	16.74	18	4
5	256QAM	1	24	16.90	16.83	16.87	16.84	16.93		
5	256QAM	12	12	16.89	16.87	16.87	16.74	16.81		
5	256QAM	12	7	16.81	16.82	16.82	16.77	16.70	18	4
5	256QAM	12	13	16.80	16.81	16.89	16.94	16.82		
5	256QAM	12	19	16.77	16.77	16.89	16.80	16.81		

Band 41 HPUE Ant0										
RF [MHz]	Modulation	RIS Size	RF Offset	Power Low Co. [Frac]	Power Low-Mid Co. [Frac]	Power Mid-High Co. [Frac]	Power High-Mid Co. [Frac]	Power High-High Co. [Frac]	Turn-up time (dBm)	MPE (dB)
Channel										
Frequency (MHz)				30755	40185	40626	41055	41480		
5	QPSK	1	0	22.03	22.03	22.03	22.03	22.03		
5	QPSK	1	49	22.11	22.25	22.25	22.25	22.16		
5	QPSK	1	99	21.99	22.04	22.18	22.37	22.53	23.6	0
5	QPSK	1	149	22.07	22.11	22.21	22.27	22.08		
5	QPSK	50	24	21.94	22.18	22.21	22.07	22.06		
5	QPSK	50	74	21.93	22.02	22.05	21.97	22.02	23.6	0
5	QPSK	50	99	22.01	22.04	22.18	22.34	22.54		
5	16QAM	1	0	21.96	22.12	22.16	22.12	22.11		
5	16QAM	1	49	21.86	21.86	21.86	21.86	21.86		
5	16QAM	1	99	21.78	21.83	21.83	21.85	21.87	23.6	0
5	16QAM	1	149	21.85	21.89	21.93	21.82	21.84		
5	16QAM	50	5	22.03	21.98	22.11	21.86	21.95		
5	16QAM	50	24	21.95	22.05	22.05	21.94	21.96		
5	16QAM	50	74	21.93	21.99	22.07	21.82	21.90	23.6	0
5	16QAM	50	99	22.03	22.07	22.24	22.16	22.23		
5	16QAM	100	0	22.20	22.05	22.05	22.05	22.05		
5	16QAM	1	49	22.13	22.16	22.19	22.17	22.06	23.6	0
5	16QAM	1	99	22.23	22.16	22.16	22.13	22.21		
5	16QAM	50	24	21.95	21.95	21.95	21.97	21.92		
5	16QAM	50	74	21.95	21.95	21.95	21.97	21.92	23	0.6
5	16QAM	50	99	21.95	21.93	21.93	21.92	21.96		
5	16QAM	100	0	21.95	21.93	21.93	21.94	21.99		
5	256QAM	1	0	19.50	19.47	19.59	19.48	19.49		
5	256QAM	1	49	19.32	19.28	19.45	19.43	19.35	23	2.6
5	256QAM	1	99	19.81	19.85	19.84	19.28	19.34		
5	256QAM	50	5	19.38	19.47	19.44	19.25	19.36		
5	256QAM	50	24	19.24	19.25	19.25	19.37	19.13	23	2.6
5	256QAM	50	74	19.24	19.26	19.26	19.24	19.25		
5	256QAM	50	99	19.12	19.06	19.25	19.14	19.10		
5	256QAM	100	0	19.25	19.25	19.25	19.37	19.44		
Channel										
Frequency (MHz)				30755	40173	40626	41065	41450	Turn-up time (dBm)	MPE (dB)
5	QPSK	1	0	22.13	22.13	22.13	22.17	22.17		
5	QPSK	1	49	22.03	22.08	22.08	22.03	22.07		
5	QPSK	1	99	22.04	21.95	22.09	22.02	21.88	24	0
5	QPSK	1	149	21.91	21.99	22.04	21.94	22.12		
5	QPSK	50	24	21.85	21.94	22.04	21.89	22.09		
5	QPSK	50	74	21.92	22.07	22.13	21.99	21.94		
5	QPSK	50	99	21.87	21.94	22.04	21.89	22.09	23.6	0
5	QPSK	75	0	21.87	21.94	22.02	21.85	22.03		
5	16QAM	1	0	21.85	22.08	22.09	22.09	22.04		
5	16QAM	1	49	21.81	21.84	21.84	21.86	21.74	23.6	0
5	16QAM	1	74	21.83	21.75	21.82	21.7	21.76		
5	16QAM	50	5	21.90	21.85	22.08	21.88	21.93		
5	16QAM	50	24	21.84	21.75	21.85	21.69	21.86	23.6	0
5	16QAM	50	74	21.84	21.88	22.09	21.7	21.88		
5	16QAM	50	99	22.12	21.91	22.21	22.01	22.08		
5	16QAM	100	0	21.77	21.84	22.05	21.98	22.05		
5	16QAM	1	99	22.06	22.05	22.09	22.03	22.01	23.6	0
5	16QAM	1	149	21.96	21.96	22.05	21.88	22.08		
5	16QAM	50	24	21.92	21.90	21.90	21.94	21.93		
5	16QAM	50	74	21.92	21.91	21.91	21.94	21.93	23	0.6
5	16QAM	50	99	21.92	21.90	21.90	21.94	21.93		
5	256QAM	1	0	19.41	19.31	19.46	19.38	19.37		
5	256QAM	1	49	19.16	19.16	19.36	19.32	19.18	23	2.6
5	256QAM	1	99	19.64	19.64	19.64	19.16	19.22		
5	256QAM	50	5	19.52	19.42	19.56	19.38	19.37		
5	256QAM	50	24	19.38	19.38	19.38	19.50	19.26	23	2.6
5	256QAM	50	74	19.44	19.44	19.44	19.44	19.44		
5	256QAM	50	99	19.31	19.21	19.44	19.44	19.31		
5	256QAM	100	0	19.44	19.44	19.44	19.56	19.63		
Channel										
Frequency (MHz)				30755	40166	40626	41065	41450	Turn-up time (dBm)	MPE (dB)
5	QPSK	1	0	22.07	22.09	22.18	22.03	22.09		
5	QPSK	1	49	22.04	21.87	21.99	22.01	21.85	23.6	0
5	QPSK	1	99	21.88	21.88	22.02	22.01	21.97		
5	QPSK	1	149	21.85	21.85	22.01	21.84	22.01		
5	QPSK	50	12	21.80	21.89	22.02	21.96	21.91	23.6	0
5	QPSK	50	12	21.80	21.89	22.02	21.96	21.91		
5	QPSK	50	12	21.80	21.89	22.02	21.96	21.91	23.6	0
5	QPSK	50	5	21.95	21.89	22.05	21.87	21.97		
5	16QAM	1	0	21.76	22.03	22.04	22.03	21.95		
5	16QAM	1	49	21.72	21.81	21.86	21.77	21.87	23.6	0
5	16QAM	1	99	21.68	21.67	21.80	21.77	21.83		
5	16QAM	25	0	21.89	21.89	21.86	21.85	21.86		
5	16QAM	25	12	21.89	21.89	21.86	21.85	21.86		
5	16QAM	25	25	21.83	21.90	22.02	21.74	21.91		
5	16QAM	50	6	21.87	21.87	21.87	21.86	21.86	23.6	0
5	16QAM	50	0	22.05	21.88	21.95	22.12	21.88		
5	16QAM	1	25	22.08	22.03	22.04	22.02	21.99		
5	16QAM	1	25	22.10	22.03	22.03	22.02	22.04		
5	16QAM	25	0	21.30	21.20	21.44	21.22	21.17		
5	16QAM	25	12	21.22	21.04	21.12	21.08	21.24	23	0.6
5	16QAM	25	13	21.22	21.04	21.12	21.13	21.15		
5	16QAM	50	0	21.22	21.35	21.41	21.33	21.21		
5	256QAM	1	0	19.42	19.34	19.45	19.43	19.43		
5	256QAM	1	49	19.14	19.14	19.33	19.28	19.14	23	2.6
5	256QAM	1	99	19.62	19.61	19.61	19.10	19.18		
5	256QAM	50	5	19.58	19.58	19.58	19.38	19.38		
5	256QAM	50	12	19.19	19.19	19.29	19.23	19.02	23	2.6
5	256QAM	50	25	19.02	19.01	19.05	19.11	19.11		
5	256QAM	100	0	19.25	19.25	19.25	19.37	19.38		
Channel										
Frequency (MHz)				30675 <th>40146<th>40626<th>41065<th>41455</th><th>Turn-up time (dBm)</th><th>MPE (dB)</th></th></th></th>	40146 <th>40626<th>41065<th>41455</th><th>Turn-up time (dBm)</th><th>MPE (dB)</th></th></th>	40626 <th>41065<th>41455</th><th>Turn-up time (dBm)</th><th>MPE (dB)</th></th>	41065 <th>41455</th> <th>Turn-up time (dBm)</th> <th>MPE (dB)</th>	41455	Turn-up time (dBm)	MPE (dB)
5	QPSK	1	0	22.03	22.03	22.03	22.03	22.03		
5	QPSK	1	49	22.04	21.86	21.98	21.97	21.89	23.6	0
5	QPSK	1	99	21.84	21.84	22.04	22.04	21.96		
5	QPSK	12	0	21.97	21.97	22.09	22.09	22.01		
5	QPSK	12	7	21.78	22.06	22.19	22.03	21.90		
5	16QAM	1	0	21.73	22.05	22.05	22.05	21.96	23.6	0
5	16QAM	1	49	21.69	21.81	21.88	21.84	21.86		
5	16QAM	25	0	22.03	21.91	21.98	21.87	21.88		
5	16QAM	1	21	21.85	21.99	22.01	21.96	22.07		
5	16QAM	12	12	21.73	21.73	21.82	21.78	21.82	23	0.6
5	16QAM	1	24	21.65	21.81	21.89	21.83	21.83		
5	16QAM	1	24	21.65	21.81	21.89	21.83	21.83	23.6	0
5	16QAM	12	7	21.96	21.88	22.00	22.06	22.08		
5	16QAM	12	13	21.88	21.87	21.91	21.79	21.97		
5	16QAM	1	22	22.03	22.03	22.03	22.03	22.03		
5	16QAM	1	22	22.04	22.03	22.05	22.05	21.96	23.6	0
5	16QAM	1	22	22.04	22.03	22.05	22.05	21.96		
5	16QAM	25	13	21.30	21.14	21.16	21.13	21.15	23	0.6
5	16QAM	25	0	21.20	21.43	21.53	21.32	21.31		
5	256QAM	1	0	19.42	19.34	19.45	19.43	19.43		
5	256QAM	1	49	19.14	19.14	19.33	19.28	19.14	23	2.6
5	256QAM	1	99	19.62	19.61	19.61	19.10	19.18		
5	256QAM	50	5	19.58	19.58	19.58	19.38	19.38		
5	256QAM	50	12	19.19	19.19	19.29	19.23	19.02	23	2.6
5	256QAM	50	25	19.02	19.01	19.05	19.11	19.11		
5	256QAM	100	0	19.25	19.25	19.25	19.37	19.38		





Band 2 Ant1											
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freq	Power Hsp Ch / Freq	Power Ch / Freq	Turn-up Time (sec)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	20.20	20.20	20.20	21.5	0			
20	QPSK	1	49	20.07	20.24	20.18					
20	QPSK	1	99	19.97	20.16	20.10					
20	QPSK	50	24	19.97	20.03	19.98					
20	QPSK	50	50	19.97	20.03	19.98					
20	QPSK	100	0	19.76	19.76	19.81	21	0.5			
20	16QAM	1	0	19.93	20.17	20.00					
20	16QAM	1	49	19.87	20.03	19.97					
20	16QAM	50	24	19.76	19.84	19.84					
20	16QAM	50	50	19.76	19.84	19.76					
20	64QAM	1	0	19.03	19.10	19.15	20	1.5			
20	64QAM	1	49	18.95	19.02	18.95					
20	64QAM	1	99	19.13	19.02	19.00					
20	64QAM	50	24	17.89	17.85	17.85					
20	64QAM	50	50	17.89	17.85	17.85					
20	64QAM	100	0	17.75	17.74	17.75	19	2.5			
20	256QAM	1	49	15.83	15.87	15.84					
20	256QAM	1	99	15.80	16.01	15.77					
20	256QAM	50	24	15.83	15.91	15.92					
20	256QAM	50	50	15.85	15.74	15.81					
20	256QAM	50	150	15.72	15.91	15.89	17	4.5			
20	256QAM	100	0	15.94	16.01	16.02					
Channel											
Frequency (MHz)											
15	QPSK	1	0	19.87	19.80	19.82			21.5	0	
15	QPSK	1	24	20.18	20.25	20.26					
15	QPSK	1	74	20.26	20.21	20.18					
15	QPSK	36	0	20.04	20.09	19.98					
15	QPSK	36	39	19.95	20.05	19.94					
15	QPSK	36	39	19.95	20.05	19.94	21	0.5			
15	QPSK	75	0	19.96	19.98	19.96					
15	16QAM	1	19	19.95	19.98	19.85					
15	16QAM	1	74	19.80	20.00	19.83					
15	16QAM	36	74	19.86	19.88	19.86					
15	16QAM	36	20	19.73	19.80	19.71	20	1.5			
15	16QAM	75	0	19.82	19.82	19.83					
15	16QAM	75	0	19.97	19.91	19.90					
15	64QAM	1	0	19.03	19.14	19.15					
15	64QAM	1	39	19.13	19.02	19.03					
15	64QAM	1	74	19.05	19.04	19.02	19	2.5			
15	64QAM	36	0	17.89	17.89	17.96					
15	64QAM	36	39	17.81	17.82	17.89					
15	64QAM	75	0	17.84	17.86	17.88					
15	256QAM	1	37	15.83	15.95	15.98					
15	256QAM	1	74	15.91	16.02	15.98	17	4.5			
15	256QAM	36	20	15.88	15.95	15.86					
15	256QAM	36	39	15.88	15.89	15.75					
15	256QAM	36	39	15.74	15.82	15.72					
15	256QAM	36	39	15.74	15.82	15.72					
15	256QAM	100	0	15.95	15.95	15.95	17	4.5			
Channel											
Frequency (MHz)											
10	QPSK	1	0	20.19	20.19	20.22	21.5	0			
10	QPSK	1	24	20.15	20.14	20.26					
10	QPSK	1	49	20.26	20.20	20.10					
10	QPSK	1	74	20.26	20.20	20.10					
10	QPSK	25	12	19.93	20.14	19.96					
10	QPSK	25	25	19.99	20.02	20.02	21	0.5			
10	QPSK	25	49	19.89	19.99	19.92					
10	16QAM	1	0	20.00	19.98	19.98					
10	16QAM	1	25	19.88	19.83	19.81					
10	16QAM	1	49	19.88	19.85	19.86					
10	16QAM	25	12	19.71	19.85	19.77	20	1.5			
10	16QAM	25	25	19.84	19.83	19.78					
10	16QAM	50	0	19.86	19.80	19.76					
10	16QAM	50	0	19.86	19.80	19.85					
10	64QAM	1	0	19.05	19.15	19.05					
10	64QAM	1	49	18.95	19.04	19.06	19	2.5			
10	64QAM	25	0	17.86	17.86	17.90					
10	64QAM	25	25	17.81	17.86	17.89					
10	64QAM	50	0	17.88	17.88	17.89					
10	64QAM	50	0	17.98	17.98	17.92					
10	256QAM	1	25	15.93	15.92	15.83	17	4.5			
10	256QAM	1	49	15.83	16.04	15.96					
10	256QAM	25	12	15.88	15.95	15.77					
10	256QAM	25	12	15.72	15.90	15.71					
10	256QAM	25	25	15.78	15.80	15.83					
10	256QAM	50	0	15.88	15.94	15.95	17	4.5			
Channel											
Frequency (MHz)											
5	QPSK	1	0	20.14	20.14	20.14	21.5	0			
5	QPSK	1	12	20.19	20.20	20.24					
5	QPSK	1	24	20.23	20.24	20.08					
5	QPSK	1	36	20.18	20.11	20.08					
5	QPSK	12	7	19.89	19.92	19.87					
5	QPSK	12	13	19.99	20.05	20.03	21	0.5			
5	QPSK	25	0	19.90	20.01	19.91					
5	16QAM	1	0	20.02	19.99	19.96					
5	16QAM	1	12	19.87	19.96	19.85					
5	16QAM	1	24	19.81	19.93	19.83					
5	16QAM	12	0	19.90	19.90	19.94	20	1.5			
5	16QAM	12	7	19.82	19.80	19.78					
5	16QAM	25	0	19.82	19.80	19.81					
5	16QAM	25	0	19.80	19.10	19.03					
5	64QAM	1	0	19.04	19.07	19.03					
5	64QAM	1	36	19.07	19.02	19.09	19	2.5			
5	64QAM	12	13	17.89	17.86	17.86					
5	64QAM	25	0	17.81	17.86	17.82					
5	64QAM	25	0	18.03	18.00	18.07					
5	256QAM	1	12	15.87	15.91	15.90					
5	256QAM	1	24	15.91	16.00	15.98	17	4.5			
5	256QAM	12	13	15.78	15.86	15.78					
5	256QAM	12	7	15.70	15.80	15.73					
5	256QAM	25	13	15.75	15.80	15.82					
5	256QAM	25	13	15.86	15.91	15.97					
5	256QAM	50	0	15.96	16.01	15.97	17	4.5			
Channel											
Frequency (MHz)											
3	QPSK	1	0	20.18	20.13	20.21	21.5	0			
3	QPSK	1	8	20.11	20.10	20.16					
3	QPSK	1	14	20.20	20.21	20.15					
3	QPSK	8	4	19.91	20.00	19.80					
3	QPSK	8	7	19.88	19.90	19.94					
3	QPSK	15	0	19.84	19.87	19.94	21	0.5			
3	16QAM	1	0	20.01	20.00	19.90					
3	16QAM	1	8	19.88	20.02	19.90					
3	16QAM	1	14	19.84	19.91	19.83					
3	16QAM	8	0	19.90	19.87	19.91					
3	16QAM	8	4	19.79	19.86	19.70	20	1.5			
3	16QAM	15	0	19.81	19.86	19.81					
3	16QAM	15	0	19.87	19.85	19.92					
3	64QAM	1	0	19.00	19.10	19.11					
3	64QAM	1	15	19.86	19.86	19.91					
3	64QAM	1	14	19.05	19.01	19.90	19	2.5			
3	64QAM	8	0	17.71	17.89	17.86					
3	64QAM	8	7	17.74	17.67	17.88					
3	256QAM	1	0	15.95	15.98	16.04					
3	256QAM	1	8	15.91	15.96	15.92					
3	256QAM	1	14	15.96	16.02	15.94	17	4.5			
3	256QAM	15	0	15.83	15.90	15.87					
3	256QAM	15	14	15.86	15.92	15.88					
3	256QAM	8	0	15.86	15.82	15.83					
3	256QAM	8	7	15.76	15.84	15.75					
3	256QAM	15	0	15.92	16.04	15.95	17	4.5			
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	20.19	20.11	20.27	21.5	0			
1.4	QPSK	1	8	20.11	20.10	20.16					
1.4	QPSK	1	14	20.25	20.22	20.20					
1.4	QPSK	3	0	20.18	20.20	20.28					
1.4	QPSK	3	24	20.24	20.21	20.18					
1.4	QPSK	6	0	19.87	20.00	19.97	21	0.5			
1.4	QPSK	6	8	19.88	19.99	19.97					
1.4	QPSK	1	3	19.78	19.97	19.89					
1.4	16QAM	1	8	19.90	19.96	19.87					
1.4	16QAM	1	14	19.92	19.98	19.84					
1.4	16QAM	3	0	19.77	19.88	19.75	20	1.5			
1.4	16QAM	3	8	19.87	19.90	19.85					
1.4	16QAM	3	14	19.92	19.92	19.83					
1.4	16QAM	6	0	19.59	19.10	19.03					
1.4	16QAM	6	8	19.76	19.80	19.74					
1.4	16QAM	6	14	19.81	19.86	19.80	19	2.5			
1.4	16QAM	6	0	17.96	17.97	17.87					
1.4	16QAM	6	8	17.96	17.97	17.87					
1.4	16QAM	6	14	17.96	17.97	17.87					
1.4	256QAM	3	0	15.92	16.07	15.90					
1.4	256QAM	3	8	15.76	15.84	15.75	17	4.5			
1.4	256QAM	3	14	15.83	15.92	15.87					
1.4	256QAM	6	0	15.86	15.87	15.94					
1.4	256QAM	6	8	15.73	15.83	15.75					
1.4	256QAM	6	14	15.73	15.83	15.75					



Band 12 Ant1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turnup (dB)	MPR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.58	22.70	22.82	24	0				
10	QPSK	1	25	22.53	22.80	22.87						
10	QPSK	1	49	22.56	22.70	22.87						
10	QPSK	25	0	21.68	21.71	21.84						
10	QPSK	25	12	21.54	21.68	21.81	23	1				
10	QPSK	25	25	21.62	21.66	21.82						
10	QPSK	50	0	21.60	21.67	21.83						
10	16QAM	1	0	21.70	21.75	21.84						
10	16QAM	1	25	21.54	21.63	21.81	23	1				
10	16QAM	1	49	21.57	21.68	21.83						
10	16QAM	25	0	20.83	20.70	20.86						
10	16QAM	25	12	20.83	20.74	20.83						
10	16QAM	25	25	20.88	20.78	20.72	22	2				
10	16QAM	50	0	20.84	20.73	20.89						
10	64QAM	1	0	20.80	20.89	20.80						
10	64QAM	1	25	20.87	20.77	20.84						
10	64QAM	1	49	20.83	20.88	20.84	21	3				
10	64QAM	25	0	19.82	19.85	19.84						
10	64QAM	25	12	19.82	19.71	19.89						
10	64QAM	25	25	19.51	19.58	19.55						
10	64QAM	50	0	19.82	19.70	19.82	19	5				
10	256QAM	1	0	17.57	17.71	17.86						
10	256QAM	1	25	17.51	17.65	17.86						
10	256QAM	1	49	17.54	17.68	17.82						
10	256QAM	25	0	17.56	17.59	17.84	19	5				
10	256QAM	25	12	17.89	17.74	17.82						
10	256QAM	25	25	17.56	17.82	17.86						
10	256QAM	50	0	17.58	17.82	17.86						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.47	22.70	22.49	24	0				
5	QPSK	1	12	22.40	22.68	22.81						
5	QPSK	1	24	22.42	22.56	22.44						
5	QPSK	12	0	21.85	21.85	21.82						
5	QPSK	12	7	21.40	21.60	21.82	23	1				
5	QPSK	12	13	21.53	21.56	21.49						
5	QPSK	25	0	21.82	21.86	21.82						
5	16QAM	1	0	21.58	21.64	21.57						
5	16QAM	1	12	21.48	21.51	21.39	23	1				
5	16QAM	1	24	21.49	21.62	21.39						
5	16QAM	12	0	20.48	20.66	20.52						
5	16QAM	12	7	20.05	20.88	20.49						
5	16QAM	12	13	20.53	20.59	20.51	22	2				
5	16QAM	25	0	20.59	20.61	20.59						
5	64QAM	1	0	20.74	20.81	20.76						
5	64QAM	1	24	21.49	21.62	21.39						
5	64QAM	1	24	20.52	20.63	20.50	21	3				
5	64QAM	12	0	19.45	19.51	19.50						
5	64QAM	12	13	19.48	19.51	19.44						
5	64QAM	25	0	19.87	19.80	19.49						
5	256QAM	1	0	17.46	17.56	17.46	19	5				
5	256QAM	1	12	17.38	17.42	17.47						
5	256QAM	1	24	17.45	17.58	17.56						
5	256QAM	12	0	17.48	17.48	17.48						
5	256QAM	12	7	17.48	17.58	17.48	19	5				
5	256QAM	12	13	17.42	17.53	17.49						
5	256QAM	25	0	17.54	17.54	17.54						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.51	22.67	22.35	24	0				
3	QPSK	1	8	22.39	22.51	22.46						
3	QPSK	1	14	22.44	22.43	22.52						
3	QPSK	8	0	21.60	21.59	21.60						
3	QPSK	8	4	21.43	21.59	21.49	23	1				
3	QPSK	8	7	21.56	21.62	21.50						
3	16QAM	1	0	21.54	21.55	21.51						
3	16QAM	1	0	21.62	21.67	21.54						
3	16QAM	1	8	21.44	21.60	21.38	23	1				
3	16QAM	1	14	21.61	21.65	21.38						
3	16QAM	8	4	20.55	20.62	20.80						
3	16QAM	8	4	20.55	20.65	20.58						
3	16QAM	8	7	20.87	20.68	20.82	22	2				
3	64QAM	15	0	20.51	20.87	20.59						
3	64QAM	1	0	20.76	20.80	20.77						
3	64QAM	1	8	20.55	20.70	20.54						
3	64QAM	1	14	20.54	20.64	20.55	21	3				
3	64QAM	8	0	19.41	19.58	19.47						
3	64QAM	8	4	19.40	19.67	19.51						
3	64QAM	8	7	19.45	19.52	19.46						
3	64QAM	15	0	19.54	19.80	19.50	19	5				
3	256QAM	1	0	17.53	17.60	17.55						
3	256QAM	1	8	17.44	17.50	17.52						
3	256QAM	1	14	17.41	17.62	17.58						
3	256QAM	8	0	17.51	17.55	17.52	19	5				
3	256QAM	8	4	17.54	17.63	17.47						
3	256QAM	8	7	17.44	17.54	17.47						
3	256QAM	15	0	17.60	17.59	17.57						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.52	22.61	22.45	24	0				
1.4	QPSK	1	3	22.41	22.53	22.53						
1.4	QPSK	1	5	22.48	22.55	22.59						
1.4	QPSK	3	0	22.64	22.57	22.52						
1.4	QPSK	3	1	22.44	22.55	22.43	23	1				
1.4	QPSK	3	3	22.49	22.63	22.59						
1.4	QPSK	8	0	21.67	21.64	21.55						
1.4	16QAM	1	0	21.61	21.63	21.54						
1.4	16QAM	1	3	21.45	21.54	21.39	23	1				
1.4	16QAM	1	5	21.47	21.63	21.48						
1.4	16QAM	3	0	21.48	21.55	21.86						
1.4	16QAM	3	1	21.53	21.71	21.54						
1.4	16QAM	3	3	21.56	21.73	21.67	22	2				
1.4	16QAM	6	0	20.53	20.65	20.80						
1.4	64QAM	1	0	20.74	20.80	20.74						
1.4	64QAM	1	3	20.64	20.64	20.53						
1.4	64QAM	1	5	20.49	20.60	20.55	22	2				
1.4	64QAM	3	0	20.43	20.50	20.40						
1.4	64QAM	3	1	20.52	20.60	20.49						
1.4	64QAM	3	3	20.41	20.47	20.44						
1.4	64QAM	6	0	19.53	19.59	19.50	21	3				
1.4	256QAM	1	0	17.46	17.47	17.56						
1.4	256QAM	1	3	17.36	17.50	17.49						
1.4	256QAM	1	5	17.47	17.51	17.57						
1.4	256QAM	3	0	17.50	17.56	17.57	19	5				
1.4	256QAM	3	1	17.53	17.70	17.55						
1.4	256QAM	3	3	17.51	17.47	17.45						
1.4	256QAM	6	0	17.53	17.57	17.54						

Band 13 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up (dB)	MPER (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.52	22.52	22.52	24	0	
10	QPSK	1	25	22.48	22.48	22.48			
10	QPSK	1	49	22.37	22.37	22.37			
10	QPSK	25	0	21.49	21.49	21.49			
10	QPSK	25	12	21.44	21.44	21.44	23	1	
10	QPSK	25	25	21.41	21.41	21.41			
10	QPSK	50	0	21.46	21.46	21.46			
10	16QAM	1	0	21.70	21.70	21.70			
10	16QAM	1	25	21.64	21.64	21.64	23	1	
10	16QAM	1	49	21.57	21.57	21.57			
10	16QAM	25	0	20.52	20.52	20.52			
10	16QAM	25	12	20.43	20.43	20.43			
10	16QAM	50	0	20.49	20.49	20.49	22	2	
10	16QAM	50	25	20.42	20.42	20.42			
10	16QAM	50	49	20.68	20.68	20.68			
10	16QAM	1	26	20.54	20.54	20.54			
10	16QAM	1	49	20.51	20.51	20.51	21	3	
10	16QAM	1	73	20.54	20.54	20.54			
10	16QAM	25	12	19.51	19.51	19.51			
10	16QAM	25	25	18.48	18.48	18.48			
10	16QAM	25	49	18.37	18.37	18.37	19	5	
10	25QAM	1	0	17.58	17.58	17.58			
10	25QAM	1	25	17.48	17.48	17.48			
10	25QAM	1	49	17.40	17.40	17.40			
10	25QAM	25	0	17.50	17.50	17.50	19	5	
10	25QAM	25	12	17.42	17.42	17.42			
10	25QAM	25	25	17.43	17.43	17.43			
10	25QAM	50	0	17.43	17.43	17.43			
Channel				776.5	776.5	776.5	Turn-up (dB)	MPER (dB)	
Frequency (MHz)				776.5	776.5	776.5			
5	QPSK	1	0	22.43	22.48	22.41	24	0	
5	QPSK	1	12	22.41	22.34	22.34			
5	QPSK	1	24	21.33	21.34	21.34			
5	QPSK	12	0	21.42	21.37	21.37			
5	QPSK	12	7	21.35	21.31	21.31	23	1	
5	QPSK	12	14	21.36	21.30	21.30			
5	QPSK	25	0	21.37	21.31	21.31			
5	16QAM	1	0	21.66	21.65	21.65			
5	16QAM	1	24	21.60	21.53	21.61	22	2	
5	16QAM	1	24	21.50	21.47	21.47			
5	16QAM	12	0	20.46	20.46	20.39			
5	16QAM	12	13	20.46	20.44	20.35			
5	16QAM	25	0	20.38	20.33	20.34	22	2	
5	16QAM	25	13	20.33	20.30	20.33			
5	16QAM	1	12	20.50	20.48	20.40			
5	16QAM	1	24	20.47	20.44	20.47			
5	16QAM	12	7	19.47	19.42	19.45	21	3	
5	16QAM	12	13	19.36	19.40	19.35			
5	16QAM	12	25	19.26	19.25	19.33			
5	25QAM	1	0	17.43	17.43	17.43			
5	25QAM	1	12	17.35	17.40	17.32	19	5	
5	25QAM	1	24	17.41	17.41	17.38			
5	25QAM	12	7	17.35	17.30	17.34			
5	25QAM	12	25	17.36	17.36	17.36			
5	25QAM	25	0	17.38	17.28	17.32	19	5	
5	25QAM	25	12	17.38	17.28	17.32			
5	25QAM	25	25	17.38	17.28	17.32			
5	25QAM	50	0	17.38	17.28	17.32			



Band 25 Ant1														
BW (MHz)	Modulation	RB Size	RB 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	20.29	20.34	20.34	21	0	21	0				
20	QPSK	1	49	20.19	20.33	20.22								
20	QPSK	1	99	20.24	20.33	20.22								
20	QPSK	50	0	20.07	20.13	20.06								
20	QPSK	50	24	20.04	20.10	20.03								
20	QPSK	50	50	19.92	20.02	19.92	21	0.5	21	0.5				
20	16QAM	100	0	19.81	19.92	19.83								
20	16QAM	1	0	20.03	20.15	20.07								
20	16QAM	1	49	19.95	20.05	19.98								
20	16QAM	1	99	19.98	20.05	19.98								
20	16QAM	50	0	19.94	19.94	19.90	20	1.5	20	1.5				
20	16QAM	50	24	19.79	19.89	19.84								
20	16QAM	50	50	19.85	19.96	19.86								
20	16QAM	100	0	19.92	19.95	19.92								
20	16QAM	1	0	19.14	19.18	19.12								
20	64QAM	1	49	19.94	19.94	19.90	20	1.5	20	1.5				
20	64QAM	1	99	19.97	19.95	19.90								
20	64QAM	50	0	17.85	17.99	17.87								
20	64QAM	50	24	17.80	17.88	17.83								
20	64QAM	50	50	17.83	17.88	17.77								
20	64QAM	100	0	17.91	18.03	17.93	19	2.5	19	2.5				
20	64QAM	1	49	15.95	15.91	15.90								
20	256QAM	1	99	15.91	15.96	15.84								
20	256QAM	50	0	15.86	15.92	15.84								
20	256QAM	50	24	15.82	15.87	15.79								
20	256QAM	50	50	15.77	15.89	15.84	17	4.5	17	4.5				
20	256QAM	100	0	15.03	15.04	15.02								
Channel														
Frequency (MHz)														
18	QPSK	1	0	20.24	20.28	20.28	21	0	21	0				
18	QPSK	1	37	20.10	20.23	20.13								
18	QPSK	1	74	20.20	20.23	20.20								
18	QPSK	36	0	19.99	20.05	19.92								
18	QPSK	36	36	19.95	19.99	19.90								
18	QPSK	36	39	19.94	19.92	19.91	21	0.5	21	0.5				
18	QPSK	75	0	19.84	19.97	19.78								
18	16QAM	1	0	19.88	19.88	19.85								
18	16QAM	1	37	19.80	19.88	19.85								
18	16QAM	36	0	18.90	19.01	18.91								
18	16QAM	36	20	18.67	18.82	18.72	20	1.5	20	1.5				
18	16QAM	36	39	18.67	18.82	18.72								
18	16QAM	75	0	18.80	18.99	18.92								
18	64QAM	1	0	19.09	19.10	19.06								
18	64QAM	1	37	19.01	19.04	18.98								
18	64QAM	36	0	17.78	17.84	17.80	19	2.5	19	2.5				
18	64QAM	36	20	17.76	17.82	17.78								
18	64QAM	36	39	17.75	17.77	17.63								
18	64QAM	75	0	17.80	17.88	17.78								
18	256QAM	1	0	15.85	15.93	15.85								
18	256QAM	1	37	15.85	15.95	15.87	17	4.5	17	4.5				
18	256QAM	1	74	15.87	15.84	15.69								
18	256QAM	36	0	15.75	15.83	15.84								
18	256QAM	36	20	15.71	15.83	15.84								
18	256QAM	36	39	15.63	15.85	15.79								
18	256QAM	75	0	15.14	15.17	15.13	17	4.5	17	4.5				
Channel														
Frequency (MHz)														
18	QPSK	1	0	20.27	20.29	20.29					21	0	21	0
18	QPSK	1	25	20.16	20.21	20.10								
18	QPSK	1	49	20.19	20.33	20.22								
18	QPSK	36	0	19.97	20.04	19.90								
18	QPSK	36	36	19.95	19.98	19.95								
18	QPSK	25	12	19.90	19.98	19.95	21	0.5	21	0.5				
18	QPSK	25	25	19.92	20.06	19.97								
18	QPSK	75	0	19.87	19.98	19.87								
18	16QAM	1	0	19.91	19.98	19.90								
18	16QAM	1	26	19.88	19.91	19.91								
18	16QAM	1	49	19.81	19.87	19.80	20	1.5	20	1.5				
18	16QAM	25	0	18.96	19.02	18.89								
18	16QAM	25	12	18.76	18.77	18.75								
18	16QAM	36	0	18.70	18.84	18.78								
18	16QAM	50	0	18.84	18.93	18.89								
18	64QAM	1	0	19.08	19.05	19.08	20	1.5	20	1.5				
18	64QAM	1	24	18.91	18.91	18.87								
18	64QAM	1	49	18.92	19.01	18.92								
18	64QAM	25	0	17.71	17.92	17.75								
18	64QAM	25	12	17.72	17.88	17.75								
18	64QAM	25	25	17.70	17.85	17.71	19	2.5	19	2.5				
18	64QAM	50	0	17.87	17.93	17.82								
18	256QAM	1	0	15.91	15.91	15.87								
18	256QAM	1	26	15.90	15.96	15.87								
18	256QAM	1	49	15.70	15.91	15.86								
18	256QAM	25	0	15.85	15.88	15.85	17	4.5	17	4.5				
18	256QAM	25	12	15.75	15.84	15.73								
18	256QAM	25	25	15.66	15.81	15.75								
18	256QAM	50	0	15.02	15.02	15.06								
Channel														
Frequency (MHz)														
18	QPSK	1	0	20.28	20.29	20.29	21	0	21	0				
18	QPSK	1	12	20.10	20.21	20.07								
18	QPSK	1	24	20.16	20.27	20.16								
18	QPSK	12	0	19.90	20.04	19.85								
18	QPSK	12	7	19.95	20.05	19.90								
18	QPSK	12	13	19.97	20.00	19.99	21	0.5	21	0.5				
18	QPSK	25	0	19.85	19.92	19.83								
18	16QAM	1	0	19.98	20.07	19.93								
18	16QAM	1	12	19.85	19.98	19.90								
18	16QAM	1	24	19.84	19.93	19.82								
18	16QAM	12	0	18.83	18.93	18.92	20	1.5	20	1.5				
18	16QAM	12	7	18.69	18.78	18.78								
18	16QAM	12	13	18.72	18.81	18.80								
18	16QAM	25	0	18.82	18.97	18.81								
18	64QAM	1	0	19.02	19.11	19.02								
18	64QAM	1	12	18.87	18.99	18.90	20	1.5	20	1.5				
18	64QAM	1	24	19.02	19.11	19.05								
18	64QAM	12	0	17.75	17.93	17.78								
18	64QAM	12	7	17.73	17.84	17.75								
18	64QAM	12	13	17.74	17.78	17.72								
18	64QAM	25	0	17.88	17.94	17.75	19	2.5	19	2.5				
18	256QAM	1	0	15.93	15.97	15.82								
18	256QAM	1	12	15.81	15.91	15.90								
18	256QAM	1	24	15.71	15.84	15.76								
18	256QAM	12	0	15.76	15.91	15.84								
18	256QAM	12	7	15.78	15.74	15.69	17	4.5	17	4.5				
18	256QAM	12	13	15.75	15.80	15.81								
18	256QAM	25	0	15.00	15.01	15.00								
Channel														
Frequency (MHz)														
18	QPSK	1	0	20.25	20.25	20.25	21	0	21	0				
18	QPSK	1	8	20.13	20.21	20.16								
18	QPSK	1	16	20.10	20.22	20.18								
18	QPSK	8	0	20.01	20.01	19.98								
18	QPSK	8	8	19.95	20.00	19.94								
18	QPSK	8	16	19.98	20.04	19.98	21	0.5	21	0.5				
18	QPSK	16	0	19.82	19.98	19.89								
18	QPSK	1	0	19.97	20.04	19.98								
18	16QAM	1	8	19.89	19.93	19.93								
18	16QAM	1	16	19.83	19.91	19.91								
18	16QAM	8	0	19.91	19.91	19.87	20	1.5	20	1.5				
18	16QAM	8	8	19.72	19.83	19.79								
18	16QAM	8	16	19.80	19.91	19.77								
18	16QAM	16	0	19.87	19.97	19.87								
18	16QAM	16	8	19.01	19.10	19.10								
18	64QAM	1	8	19.89	19.89	19.88	20	1.5	20	1.5				
18	64QAM	1	16	19.83	19.93	19.89								
18	64QAM	8	0	17.78	17.87	17.82								
18	64QAM	8	8	17.75	17.82	17.72								
18	64QAM	8	16	17.78	17.78	17.75								
18	64QAM	16	0	17.76	17.84	17.78	19	2.5	19	2.5				
18	256QAM	1	0	15.82	15.90	15.83								
18	256QAM	1	8	15.81	15.91	15.88								
18	256QAM	1	16	15.71	15.83	15.74								
18	256QAM	16	0	15.76	15.87	15.72								
18	256QAM	1	14	15.77	15.87	15.72	17	4.5	17	4.5				
18	256QAM	8	0	15.86	15.97	15.86								
18	256QAM	8	8	15.79	15.82	15.81								
18	256QAM	8	16	15.70	15.79	15.71								
18	256QAM	15	0	15.04	15.02	15.05								
Channel														
Frequency (MHz)														
14	QPSK	1	0	20.21	20.29	20.27	21	0	21	0				
14	QPSK	1	8	20.07	20.18	20.12								
14	QPSK	1	16	20.12	20.24	20.17								
14	QPSK	3	0	20.16	20.26	20.21								
14	QPSK	3	8	20.21	20.31	20.23								
14	QPSK	3	16	20.17	20.30	20.20	21	0.5	21	0.5				
14	QPSK	8	0	19.84	19.89	19.85								
14	QPSK	1	0	19.98	20.03	19.98								
14	16QAM	1	8	19.84	19.90	19.86								
14	16QAM	1	16	19.83	19.90	19.87								
14	16QAM	3	0	19.74	19.81	19.80	21	0.5	21	0.5				
14	16QAM	3	8	19.80	19.82	19.83								
14	16QAM	3	16	19.63	19.80	19.81								
14	16QAM	8	0	19.05	19.14	19.07								
14	16QAM	8	8	19.06	19.15	19.06								
14	64QAM	1	8	19.09	19.11	19.09	20	1.5	20	1.5				
14	64QAM	1	16	18.76	18.93	18.75								
14	64QAM	3	0	18.82	18.92	18.87								
14	64QAM	3	8	18.73	18.81	18.78								
14	64QAM	8	0	17.78	17.89	17.78								
14	64QAM	8	8	17.76	17.86	17.76	19	2.5	19	2.5				
14	64QAM	8	16	17.79	17.81	17.74								
14	256QAM	1	0	15.90	15.92	15.88								
14	256QAM	1	8	15.77	15.81	15.74								
14	256QAM	1	16	15.67	15.82	15.73								
14	256QAM	3	0	15.69	15.78	15.73	17	4.5	17	4.5				
14	256QAM	3	8	15.71	15.78	15.74								
14	256QAM	3	16	15.61	15.83	15.74								
14	256QAM	8	0	15.02										

Band 38 Ant1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)		
Channel				37650	38050	38150				
Frequency (MHz)										
20	QPSK	1	0	21.51	21.55	21.58	22.3	0		
20	QPSK	1	40	21.45	21.57	21.49				
20	QPSK	1	80	21.39	21.48	21.38				
20	QPSK	50	0	20.53	20.55	20.51	22	0.3		
20	QPSK	50	24	20.54	20.61	20.51				
20	QPSK	50	48	20.53	20.54	20.58				
20	QPSK	100	0	20.48	20.51	20.47	22	0.3		
20	HQAM	1	0	20.60	20.63	20.59				
20	HQAM	1	40	20.63	20.53	20.49				
20	HQAM	1	80	20.35	20.47	20.42	21	1.3		
20	HQAM	50	24	19.52	19.58	19.51				
20	HQAM	50	48	19.53	19.46	19.40				
20	HQAM	50	50	19.48	19.54	19.48	21	1.3		
20	HQAM	100	0	19.52	19.64	19.49				
20	HQAM	100	0	19.50	19.51	19.47				
20	HQAM	1	40	19.57	19.66	19.58	20	1.3		
20	HQAM	1	80	19.40	19.54	19.39				
20	HQAM	50	0	18.47	18.57	18.54				
20	HQAM	50	24	18.53	18.63	18.52	20	2.3		
20	HQAM	50	50	18.38	18.52	18.45				
20	HQAM	100	0	18.50	18.60	18.48				
20	256QAM	1	0	18.51	18.56	18.47	18	4.3		
20	256QAM	1	40	18.37	18.46	18.32				
20	256QAM	1	80	18.46	18.52	18.39				
20	256QAM	50	0	18.52	18.56	18.50	18	4.3		
20	256QAM	50	24	18.34	18.44	18.40				
20	256QAM	50	50	18.60	18.63	18.61				
20	256QAM	100	0	18.50	18.60	18.53				
Channel				37625	38050	38175	Tune-up Int. (dBm)	MPR (dB)		
Frequency (MHz)										
15	QPSK	1	0	21.17	21.43	21.54	22.3	0		
15	QPSK	1	37	21.38	21.43	21.40				
15	QPSK	1	74	21.25	21.37	21.33				
15	QPSK	36	0	20.40	20.50	20.42	22	0.3		
15	QPSK	36	20	20.47	20.57	20.42				
15	QPSK	36	40	20.42	20.48	20.42				
15	QPSK	75	0	20.34	20.50	20.38	22	0.3		
15	HQAM	1	0	20.48	20.59	20.38				
15	HQAM	1	37	20.35	20.47	20.42				
15	HQAM	1	74	20.39	20.54	20.40	21	1.3		
15	HQAM	36	0	19.48	19.45	19.42				
15	HQAM	36	20	19.20	19.43	19.38				
15	HQAM	36	36	19.43	19.46	19.42	21	1.3		
15	HQAM	75	0	19.44	19.60	19.35				
15	HQAM	1	0	19.38	19.47	19.35				
15	HQAM	1	37	19.48	19.52	19.44	21	1.3		
15	HQAM	1	74	19.32	19.43	19.29				
15	HQAM	36	0	18.34	18.47	18.42				
15	HQAM	36	20	18.48	18.51	18.38	20	2.3		
15	HQAM	36	40	18.42	18.45	18.38				
15	HQAM	75	0	18.35	18.52	18.41				
15	256QAM	1	0	18.47	18.51	18.40	18	4.3		
15	256QAM	1	37	18.37	18.53	18.32				
15	256QAM	1	74	18.40	18.49	18.37				
15	256QAM	36	0	18.52	18.46	18.38	18	4.3		
15	256QAM	36	20	18.30	18.38	18.25				
15	256QAM	36	36	18.54	18.55	18.47				
15	256QAM	75	0	18.43	18.57	18.44				
Channel				37600	38050	38175	Tune-up Int. (dBm)	MPR (dB)		
Frequency (MHz)										
10	QPSK	1	0	21.43	21.51	21.44	22.3	0		
10	QPSK	1	25	21.37	21.49	21.37				
10	QPSK	1	49	21.30	21.38	21.28				
10	QPSK	25	0	20.30	20.54	20.41	22	0.3		
10	QPSK	25	12	20.48	20.51	20.38				
10	QPSK	25	25	20.39	20.53	20.40				
10	QPSK	50	0	20.42	20.51	20.38	22	0.3		
10	HQAM	1	0	20.47	20.54	20.42				
10	HQAM	1	25	20.33	20.47	20.46				
10	HQAM	1	49	20.34	20.49	20.33	21	1.3		
10	HQAM	25	0	19.37	19.48	19.46				
10	HQAM	25	12	19.39	19.41	19.36				
10	HQAM	25	25	19.41	19.45	19.41	21	1.3		
10	HQAM	50	0	19.34	19.50	19.34				
10	HQAM	1	0	19.44	19.54	19.44				
10	HQAM	1	25	19.33	19.46	19.31	20	2.3		
10	HQAM	25	0	18.35	18.53	18.48				
10	HQAM	25	12	18.46	18.52	18.40				
10	HQAM	25	25	18.33	18.47	18.32	20	2.3		
10	HQAM	50	0	18.42	18.53	18.44				
10	256QAM	1	0	18.46	18.45	18.34				
10	256QAM	1	25	18.34	18.45	18.19	18	4.3		
10	256QAM	1	49	18.60	18.45	18.29				
10	256QAM	25	0	18.52	18.50	18.40				
10	256QAM	25	12	18.28	18.52	18.50	18	4.3		
10	256QAM	25	25	18.50	18.45	18.30				
10	256QAM	50	0	18.50	18.45	18.37				
10	256QAM	50	0	18.41	18.58	18.44				
Channel				37776	38050	38225	Tune-up Int. (dBm)	MPR (dB)		
Frequency (MHz)										
5	QPSK	1	0	21.42	21.55	21.46	22.3	0		
5	QPSK	1	12	21.41	21.46	21.46				
5	QPSK	1	24	21.31	21.44	21.25				
5	QPSK	12	0	20.40	20.54	20.38	22	0.3		
5	QPSK	12	7	20.42	20.54	20.38				
5	QPSK	12	13	20.47	20.45	20.46				
5	QPSK	25	0	20.44	20.50	20.36	22	0.3		
5	HQAM	1	0	20.49	20.55	20.44				
5	HQAM	1	12	20.39	20.40	20.38				
5	HQAM	1	24	20.43	20.55	20.39	21	1.3		
5	HQAM	12	0	19.47	19.52	19.36				
5	HQAM	12	7	19.23	19.38	19.32				
5	HQAM	12	13	19.41	19.43	19.44	21	1.3		
5	HQAM	25	0	19.52	19.54	19.36				
5	HQAM	1	0	19.44	19.46	19.39				
5	HQAM	1	12	19.47	19.53	19.33	20	2.3		
5	HQAM	1	24	19.29	19.50	19.30				
5	HQAM	12	0	18.34	18.44	18.40				
5	HQAM	12	7	18.44	18.51	18.40	18	4.3		
5	HQAM	12	13	18.26	18.45	18.37				
5	HQAM	25	0	18.47	18.48	18.42				
5	256QAM	1	0	18.39	18.40	18.38	18	4.3		
5	256QAM	1	12	18.24	18.32	18.28				
5	256QAM	1	24	18.38	18.43	18.28				
5	256QAM	12	0	18.38	18.47	18.45	18	4.3		
5	256QAM	12	7	18.25	18.25	18.27				
5	256QAM	12	13	18.54	18.54	18.39				
5	256QAM	25	0	18.38	18.50	18.46				

Band 38 HPUE Ant1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)				
Channel				37850	38050	38150						
Frequency (MHz)												
20	QPSK	1	0	22.52	22.57	22.51	23.9	0				
20	QPSK	1	49	22.33	22.54	22.51						
20	QPSK	50	99	22.48	22.56	22.48						
20	QPSK	50	24	22.31	22.51	22.48	23.9	0				
20	QPSK	50	74	22.34	22.51	22.48						
20	QPSK	100	0	22.48	22.50	22.42						
20	16QAM	1	0	22.80	22.84	22.80	23.9	0				
20	16QAM	1	49	22.63	22.82	22.63						
20	16QAM	1	99	22.48	22.81	22.47						
20	16QAM	50	0	22.37	22.44	22.34	23.9	0				
20	16QAM	50	49	22.18	22.41	22.20						
20	16QAM	50	99	22.51	22.44	22.37						
20	16QAM	100	0	22.50	22.42	22.36	23.9	0				
20	16QAM	100	49	22.33	22.40	22.32						
20	16QAM	100	99	22.61	22.41	22.52						
20	64QAM	1	0	23.07	23.11	23.03	23.9	0				
20	64QAM	1	49	22.81	22.41	22.52						
20	64QAM	50	0	22.44	22.42	22.36						
20	64QAM	50	24	22.33	22.60	22.48	23	0.0				
20	64QAM	50	74	22.33	22.60	22.47						
20	64QAM	100	0	21.47	21.81	21.50						
20	256QAM	1	0	18.53	19.62	18.50	21	2.0				
20	256QAM	1	49	19.37	19.61	19.41						
20	256QAM	1	99	19.60	19.62	19.54						
20	256QAM	50	0	17.40	17.40	17.39	21	2.0				
20	256QAM	50	24	15.40	19.42	19.32						
20	256QAM	50	74	15.63	19.69	19.45						
20	256QAM	100	0	19.37	19.37	19.30						
Channel				37825	38025	38175						
Frequency (MHz)				21.71	22.48	22.41						
15	QPSK	1	0	22.48	22.54	22.41	23.9	0				
15	QPSK	1	37	22.24	22.46	22.37						
15	QPSK	1	74	22.40	22.50	22.30						
15	QPSK	36	0	22.23	22.31	22.21	23.9	0				
15	QPSK	36	20	22.27	22.38	22.34						
15	QPSK	36	56	22.27	22.33	22.25						
15	QPSK	75	0	22.33	22.42	22.30	23.9	0				
15	16QAM	1	0	22.53	22.58	22.43						
15	16QAM	1	37	22.37	22.47	22.37						
15	16QAM	1	74	22.41	22.54	22.38	23.9	0				
15	16QAM	36	0	22.31	22.42	22.29						
15	16QAM	36	20	22.34	22.45	22.34						
15	16QAM	36	56	22.34	22.35	22.23	23.9	0				
15	16QAM	75	0	22.44	22.47	22.37						
15	64QAM	1	0	22.51	22.51	22.38						
15	64QAM	1	37	22.38	22.38	22.42	23.9	0				
15	64QAM	1	74	22.42	22.47	22.47						
15	64QAM	36	0	22.39	22.37	22.37						
15	64QAM	36	20	22.18	22.59	22.48	23	0.0				
15	64QAM	36	56	22.18	22.59	22.48						
15	64QAM	75	0	21.32	21.38	21.46						
15	256QAM	1	0	19.37	19.37	19.30	21	2.0				
15	256QAM	1	37	19.23	19.49	19.29						
15	256QAM	1	74	19.43	19.48	19.52						
15	256QAM	36	0	19.26	19.26	19.26	21	2.0				
15	256QAM	36	20	19.35	19.39	19.22						
15	256QAM	36	59	19.52	19.62	19.45						
15	256QAM	75	0	19.37	19.37	19.30						
Channel				37800	38000	38200						
Frequency (MHz)				21.46	22.56	22.41						
10	QPSK	1	0	22.46	22.56 <td>22.41</td> <td rowspan="3">23.9</td> <td rowspan="3">0</td> <td rowspan="3"></td>	22.41	23.9	0				
10	QPSK	1	25	22.17	22.43	22.33						
10	QPSK	1	49	22.37	22.43	22.33						
10	QPSK	25	0	22.27	22.41	22.15	23.9	0				
10	QPSK	25	12	22.27	22.36	22.29						
10	QPSK	25	37	22.27	22.34	22.11						
10	QPSK	50	0	22.33	22.45	22.37	23.9	0				
10	16QAM	1	0	22.51	22.58	22.38						
10	16QAM	1	25	22.36	22.39	22.33						
10	16QAM	1	49	22.40	22.54	22.32	23.9	0				
10	16QAM	25	0	22.32	22.47	22.22						
10	16QAM	25	12	22.33	22.39	22.14						
10	16QAM	25	37	22.32	22.41	22.20	23.9	0				
10	16QAM	50	0	22.33	22.43	22.33						
10	64QAM	1	0	22.60	22.25	22.48						
10	64QAM	1	25	22.42	22.33	22.45	23.9	0				
10	64QAM	1	49	22.47	22.47	22.47						
10	64QAM	25	0	22.38	22.36	22.23						
10	64QAM	25	12	22.27	22.30	22.28	23	0.0				
10	64QAM	25	37	22.24	22.34	22.16						
10	64QAM	50	0	21.20	21.42	21.37						
10	256QAM	1	0	19.34	19.39	19.49	21	2.0				
10	256QAM	1	25	19.31	19.50	19.25						
10	256QAM	1	49	19.49	19.65	19.58						
10	256QAM	25	0	19.33	19.33	19.20	21	2.0				
10	256QAM	25	12	19.33	19.24	19.18						
10	256QAM	25	37	19.45	19.61	19.27						
10	256QAM	50	0	19.30	19.30	19.27						
Channel				37775	38075	38225						
Frequency (MHz)				21.41	22.63	22.41						
5	QPSK	1	0	22.41	22.63 <td>22.41</td> <td rowspan="3">23.9</td> <td rowspan="3">0</td> <td rowspan="3"></td>	22.41	23.9	0				
5	QPSK	1	12	22.19	22.43	22.38						
5	QPSK	1	24	22.19	22.43	22.38						
5	QPSK	12	0	22.26	22.41	22.28	23.9	0				
5	QPSK	12	7	22.16	22.27	22.24						
5	QPSK	12	19	22.16	22.27	22.24						
5	16QAM	1	0	22.32	22.32	22.24	23.9	0				
5	16QAM	1	12	22.40	22.38	22.17						
5	16QAM	1	24	22.43	22.41	22.33						
5	16QAM	12	0	22.30	22.30	22.22	23.9	0				
5	16QAM	12	7	22.21	22.26	22.19						
5	16QAM	12	19	22.24	22.33	22.24						
5	64QAM	1	0	22.42	22.32	22.41	23.9	0				
5	64QAM	1	12	22.36	22.27	22.41						
5	64QAM	1	24	22.36	22.27	22.41						
5	64QAM	12	0	22.32	22.23	22.38	23	0.0				
5	64QAM	12	7	22.23	22.42	22.28						
5	64QAM	12	19	22.24	22.41	22.27						
5	256QAM	1	0	19.24	19.24	19.24	21	2.0				
5	256QAM	1	12	19.20	19.64	19.25						
5	256QAM	1	24	19.53	19.49	19.25						
5	256QAM	12	0	19.24	19.24	19.24	21	2.0				
5	256QAM	12	7	19.32	19.34	19.18						
5	256QAM	12	19	19.42	19.41	19.18						
5	256QAM	25	0	19.29	19.34	19.27						

Band 41 Ant1														
RW [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 limit (dBm)	MPR (dB)			
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.44	21.64	21.70	21.59	21.61	21.63	22.3	0			
20	QPSK	1	40	21.39	21.48	21.58	21.49	21.47	21.53					
20	QPSK	1	80	21.51	21.51	21.64	21.58	21.56	21.63					
20	QPSK	50	0	20.51	20.64	20.68	20.58	20.48	20.68					
20	QPSK	50	24	20.36	20.45	20.57	20.48	20.38	20.58	22	0.3			
20	QPSK	50	48	20.38	20.48	20.54	20.51	20.52	20.53					
20	QPSK	100	0	20.41	20.53	20.60	20.52	20.44	20.60					
20	16QAM	1	0	20.46	20.56	20.61	20.48	20.49	20.60					
20	16QAM	1	40	20.38	20.37	20.51	20.45	20.32	20.52	22	0.3			
20	16QAM	1	80	20.38	20.46	20.58	20.49	20.43	20.58					
20	16QAM	50	0	19.53	19.42	19.55	19.46	19.40	19.58					
20	16QAM	50	24	19.52	19.40	19.46	19.34	19.26	19.58					
20	16QAM	50	50	19.58	19.44	19.52	19.48	19.40	19.60	21	1.3			
20	16QAM	100	0	19.44	19.44	19.55	19.51	19.41	19.55					
20	16QAM	1	0	19.55	19.54	19.74	19.57	19.55	19.74					
20	16QAM	1	40	19.47	19.52	19.63	19.49	19.43	19.63					
20	16QAM	1	80	19.52	19.52	19.60	19.52	19.52	19.60	20	2.3			
20	16QAM	50	0	18.55	18.46	18.52	18.39	18.33	18.52					
20	16QAM	50	24	18.52	18.35	18.40	18.28	18.24	18.52					
20	16QAM	50	50	18.54	18.34	18.48	18.37	18.25	18.52					
20	16QAM	100	0	18.39	18.50	18.61	18.53	18.47	18.61	18	4.3			
20	256QAM	1	0	18.46	18.54	18.67	18.58	18.51	18.67					
20	256QAM	1	40	18.55	18.60	18.71	18.59	18.56	18.71					
20	256QAM	1	80	18.46	18.48	18.62	18.48	18.47	18.62					
20	256QAM	50	0	18.52	18.52	18.67	18.47	18.38	18.67	18	4.3			
20	256QAM	50	24	18.35	18.45	18.54	18.48	18.40	18.54					
20	256QAM	50	50	18.49	18.57	18.68	18.61	18.54	18.68					
20	256QAM	100	0	18.48	18.47	18.73	18.64	18.53	18.73					
Channel														
Frequency (MHz)														
18	QPSK	1	0	21.53	21.69	21.65	21.54	21.53	21.65	22	0			
18	QPSK	1	37	21.38	21.34	21.46	21.44	21.38	21.46					
18	QPSK	1	74	21.40	21.41	21.60	21.48	21.41	21.60					
18	QPSK	36	20	20.30	20.39	20.52	20.35	20.26	20.52					
18	QPSK	36	20	20.27	20.32	20.49	20.40	20.29	20.49	22	0.3			
18	QPSK	75	0	20.27	20.44	20.48	20.46	20.34	20.48					
18	16QAM	1	0	20.38	20.44	20.56	20.33	20.44	20.56					
18	16QAM	1	40	20.28	20.35	20.45	20.32	20.25	20.45					
18	16QAM	1	74	20.27	20.38	20.45	20.37	20.37	20.45	22	0.3			
18	16QAM	36	0	19.20	19.39	19.48	19.37	19.41	19.48					
18	16QAM	36	36	19.28	19.37	19.51	19.25	19.35	19.51					
18	16QAM	36	36	19.33	19.39	19.47	19.37	19.31	19.47					
18	16QAM	75	0	19.20	19.37	19.45	19.47	19.32	19.45	21	1.3			
18	16QAM	1	0	19.45	19.53	19.71	19.61	19.49	19.71					
18	16QAM	1	37	19.38	19.43	19.58	19.44	19.37	19.58					
18	16QAM	1	74	19.46	19.54	19.59	19.52	19.35	19.59					
18	16QAM	36	0	18.50	18.52	18.42	18.30	18.30	18.50	20	2.3			
18	16QAM	36	20	18.55	18.31	18.38	18.29	18.19	18.38					
18	16QAM	36	36	18.52	18.32	18.35	18.24	18.15	18.35					
18	16QAM	75	0	18.24	18.44	18.48	18.45	18.43	18.48					
18	256QAM	1	0	18.40	18.42	18.59	18.49	18.44	18.59	18	4.3			
18	256QAM	1	40	18.41	18.44	18.54	18.51	18.44	18.54					
18	256QAM	1	74	18.34	18.42	18.58	18.34	18.42	18.58					
18	256QAM	36	0	18.20	18.36	18.53	18.40	18.22	18.53					
18	256QAM	36	36	18.32	18.31	18.44	18.41	18.26	18.44	18	4.3			
18	256QAM	36	36	18.34	18.49	18.55	18.55	18.40	18.55					
20	256QAM	75	0	18.36	18.50	18.58	18.50	18.50	18.58					
20	256QAM	100	0	18.36	18.50	18.58	18.50	18.50	18.58					
Channel														
Frequency (MHz)														
18	QPSK	1	0	21.40	21.68	21.62	21.47	21.43	21.68	22.30	0			
18	QPSK	1	25	21.32	21.43	21.47	21.44	21.41	21.47					
18	QPSK	1	40	21.47	21.48	21.50	21.49	21.44	21.48					
18	QPSK	25	0	20.48	20.50	20.58	20.45	20.39	20.58					
18	QPSK	25	12	20.22	20.38	20.42	20.30	20.26	20.38	22	0.3			
18	QPSK	25	25	20.23	20.38	20.45	20.35	20.19	20.38					
18	QPSK	50	0	20.20	20.42	20.48	20.45	20.32	20.48					
18	16QAM	1	0	20.34	20.41	20.54	20.35	20.48	20.54					
18	16QAM	1	25	20.30	20.30	20.38	20.31	20.22	20.38	22	0.3			
18	16QAM	1	40	20.27	20.31	20.44	20.36	20.34	20.44					
18	16QAM	25	0	19.29	19.38	19.45	19.33	19.34	19.45					
18	16QAM	25	16	19.38	19.26	19.31	19.26	19.11	19.31	21	1.3			
18	16QAM	25	16	19.35	19.30	19.47	19.43	19.32	19.47					
18	16QAM	50	0	19.40	19.37	19.55	19.37	19.32	19.55					
18	16QAM	1	0	19.50	19.53	19.65	19.63	19.41	19.65					
18	16QAM	1	25	19.44	19.44	19.50	19.38	19.31	19.50	21	1.3			
18	16QAM	1	40	19.42	19.47	19.55	19.49	19.47	19.55					
18	16QAM	25	0	18.25	18.30	18.43	18.25	18.19	18.43					
18	16QAM	25	12	18.13	18.31	18.31	18.24	18.14	18.31					
18	16QAM	25	25	18.16	18.30	18.44	18.26	18.22	18.44	20	2.3			
18	16QAM	50	0	18.30	18.45	18.57	18.46	18.37	18.57					
18	256QAM	1	0	18.39	18.40	18.56	18.52	18.43	18.56					
18	256QAM	1	25	18.47	18.50	18.64	18.52	18.51	18.64					
18	256QAM	1	40	18.38	18.34	18.48	18.36	18.40	18.48	18	4.3			
18	256QAM	25	0	18.25	18.44	18.52	18.38	18.21	18.52					
18	256QAM	25	12	18.32	18.39	18.42	18.37	18.20	18.42					
18	256QAM	25	25	18.35	18.42	18.57	18.52	18.48	18.57					
18	256QAM	50	0	18.33	18.58	18.63	18.61	18.42	18.63	20	2.3			
18	256QAM	100	0	18.33	18.58	18.63	18.61	18.42	18.63					

Band 41 HPUE Ant1												
RW [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 limit (dBm)	MPR (dB)	
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.56	22.47	22.70	22.63	22.42	22.70	23.9	0	
20	QPSK	1	40	22.38	22.53	22.66	22.60	22.38	22.66			
20	QPSK	1	80	22.42	22.49	22.50	22.48	22.32	22.50			
20	QPSK	50	0	22.51	22.40	22.53	22.44	22.45	22.53			
20	QPSK	50	24	22.22	22.40	22.42	22.36	22.28	22.42	23.9	0	
20	QPSK	50	48	22.25	22.41	22.47	22.36	22.32	22.46			
20	QPSK	100	0	22.34	22.40	22.50	22.48	22.32	22.50			
20	16QAM	1	0	22.46	22.57	22.63	22.69	22.45	22.69			
20	16QAM	1	40	22.41	22.43	22.48	22.48	22.45	22.48	23.9	0	
20	16QAM	1	80	22.47	22.51	22.66	22.66	22.49	22.66			
20	16QAM	50	0	22.27	22.29	22.40	22.46	22.30	22.46			
20	16QAM	50	24	22.34	22.46	22.50	22.48	22.32	22.50			
20	16QAM	50	50	22.33	22.47	22.51	22.49	22.47	22.51	23.9	0	
20	16QAM	100	0	22.25	22.38	22.56	22.42	22.46	22.56			
20	16QAM	100	24	22.28	22.40	22.42	22.36	22.28	22.42			
20	16QAM	1	40	22.43	22.38	22.51	22.56	22.47	22.51			
20	16QAM	1	80	22.41	22.43	22.48	22.48	22.45	22.48	23.9	0	
20	16QAM	50	0	21.36	21.30	21.54	21.43	21.43	21.51			
20	16QAM	50	24	21.41	21.44	21.51	21.42	21.43	21.51			
20	16QAM	100	0	21.20	21.45	21.53	21.48	21.36	21.53			
20	16QAM	100	24	21.41	21.41	21.56	21.46	21.46	21.57	23	0.8	
20	16QAM	1	0	19.40	19.60	19.66	19.65	19.42	19.65			
20	16QAM	1	40	19.33	19.40	19.45	19.45	19.36	19.45			
20	256QAM	1	56	19.42	19.52	19.62	19.48	19.35	19.62			
20	256QAM	1	80	19.37	19.37	19.47	19.36	19.36	19.47	21	2.9	
20	256QAM	10	24	19.20	19.36	19.42	19.34	19.35	19.35			
20	256QAM	50	50	19.37	19.50	19.55	19.45	19.45	19.55			
20	256QAM	100	0	19.37	19.48	19.54	19.43	19.43	19.54			
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.53	22.47	22.70	22.63	22.42	22.70	23.9	0	
15	QPSK	1	37	22.25	22.43	22.53	22.52	22.26	22.53			
15	QPSK	1	74	22.44	22.50	22.51	22.54	22.32	22.54			
15	QPSK	50	0	22.24	22.40	22.45	22.44	22.24	22.44			
15	QPSK	50	20	22.22	22.31	22.37	22.31	22.15	22.37	23	0	
15	QPSK	50	40	22.22	22.31	22.37	22.31	22.15	22.37			
15	QPSK	100	0	22.22	22.31	22.37	22.31	22.15	22.37			
15	QPSK	1	0	22.20	22.40	22.51	22.26	22.20	22.51			
15	16QAM	1	0	22.36	22.49	22.61	22.66	22.27	22.67	23.9	0	
15	16QAM	1	37	22.17	22.38	22.47	22.47	22.17	22.47			
15	16QAM	1	74	22.34	22.52	22.59	22.59	22.27	22.59			
15	16QAM	50	0	22.28	22.27	22.47	22.39	22.16	22.47			
15	16QAM	50	20	22.27	22.34	22.40	22.34	22.16	22.40	23	0.8	
15	16QAM	50	40	22.27	22.34	22.40	22.34	22.16	22.40			
15	16QAM	100	0	22.25	22.45	22.41	22.42	22.26	22.46			
15	16QAM	1	0	22.27	22.34	22.47	22.39	22.16	22.47			
15	16QAM	1	37	22.38	22.38	22.51	22.43	22.28	22.51	23	0	
15	16QAM	1	74	21.40	21.40	21.53	21.45	21.40	21.53			
15	16QAM	50	0	21.34	21.20	21.47	21.30	21.40	21.47			
15	16QAM	50	20	21.41	21.46	21.53	21.43	21.47	21.53			
15	16QAM	50	40	21.40	21.46	21.53	21.43	21.47	21.53	21	2.9	
15	16QAM	75	0	21.30	21.47	21.53	21.46	21.46	21.53			
15	16QAM	1	0	19.37	19.42	19.45	19.45	19.36	19.45			
15	256QAM	1	37	19.20	19.28	19.52	19.35	19.20	19.52			
15	256QAM	1	74	19.38	19.42	19.62	19.38	19.38	19.62	21	2.9	
15	256QAM	1	111	19.33	19.41	19.45	19.45	19.34	19.45			
15	256QAM	50	20	19.18	19.20	19.45	19.32	19.14	19.45			
15	256QAM	50	39	19.28	19.42	19.47	19.44	19.50	19.50			
15	256QAM	100	0	19.38	19.38	19.52	19.38	19.51	19.51	21	2.9	
15	256QAM	1	0	19.37	19.42	19.45	19.45	19.36	19.45			
15	256QAM	1	37	19.20	19.28	19.52	19.35	19.20	19.52			
15	256QAM	1	74	19.38	19.42	19.62	19.38	19.38	19.62			
15	256QAM	1	111	19.33	19.41	19.45	19.45	19.34	19.45	21	2.9	
15	256QAM	50	20	19.18	19.20	19.45	19.32	19.14	19.45			
15	256QAM	50	39	19.28	19.42	19.47	19.44	19.50	19.50			
15	256QAM	100	0	19.38	19.38	19.52	19.38	19.51	19.51			
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.53	22.47	22.70	22.63	22.42	22.70	23.9	0	
10	QPSK	1	25	22.23	22.47	22.56	22.56	22.28	22.56			
10	QPSK	1	49	22.37	22.46	22.50	22.50	22.27	22.50			
10	QPSK	25	0	22.12	22.25	22.35	22.35	22.12	22.35			
10	QPSK	25	12	22.17	22.30	22.37	22.32	22.19	22.37	23.9	0	
10	QPSK	25	25	22.12	22.25	22.35	22.35	22.12	22.35			
10	QPSK	100	0	22.20	22.28	22.38	22.12	22.12	22.38			
10	16QAM	1	0	22.30	22.46	22.46	22.51	22.48	22.51			
10	16QAM	1	25	22.31	22.45	22.48	22.48	22.31	22.48	23.9	0	
10	16QAM	1	49	22.29	22.45	22.63	22.63	22.44	22.63			
10	16QAM	25	0	22.14	22.18	22.46	22.37	22.16	22.46			
10	16QAM	25	12	22.47	22.43	22.48	22.43	22.30	22.48			
10	16QAM	25	25	22.20	22.36	22.34	22.32	22.43	22.34	23	0.8	
10	16QAM	100	0	22.20	22.36	22.34	22.32	22.43	22.34			
10	16QAM	1	0	22.48	22.47	22.53	22.44	22.48	22.53			
10	16QAM	1	25	22.31	22.21	22.39	22.49	22.32	22.49			
10	16QAM	1	49	22.34	22.31	22.42	22.42	22.31	22.42	23	0.8	
10	16QAM	25	0	21.31	21.27	21.50	21.36	21.47	21.50			
10	16QAM	25	12	21.37	22.21	21.39	21.31	21.34	21.39			
10	16QAM	25	25	21.34	21.42	21.42	21.33	21.32	21.42			
10	16QAM	50	0	21.25	21.41	21.41	21.21	21.41	21.41	23	0.8	
10	16QAM	50	25	21.32	21.44	21.44	21.36	21.39	21.44			
10	256QAM	1	26	19.27	19.34	19.43	19.15	19.22	19.43			
10	256QAM	1	49	19.35	19.34	19.45	19.44	19.20	19.45			
10	256QAM	1	74	19.35	19.42	19.46	19.42	19.32	19.46	21	2.9	
10	256QAM	25	12	19.26	19.30	19.34	19.30	19.27	19.34			
10	256QAM	25	25	19.35	19.36	19.47	19.34	19.42	19.47			
10	256QAM	100	0	19.39	19.39	19.50	19.39	19.50	19.50			
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.53	22.47	22.70	22.63	22.42	22.70	23.9	0	
5	QPSK	1	12	22.23	22.48	22.50	22.38	22.26	22.50			
5	QPSK	1	24	22.27	22.41	22.43	22.43	22.21	22.43			
5	QPSK	12	0	22.13	22.33	22.35	22.20	22.33	22.33			
5	QPSK	12	7	22.06	22.20	22.24	22.21	22.07	22.24	23.9	0	
5	QPSK	25	0	22.28	22.33	22.36	22.23	22.29	22.36			
5	16QAM	1	0	22.31	22.43	22.48	22.39	22.57	22.48			
5	16QAM	1	12	22.29	22.41	22.42	22.37	22.30	22.42			
5	16QAM	1	24	22.28	22.36	22.50	22.52	22.29	22.50	23	0.8	
5	16QAM	12	7	22.13	22.12	22.22	22.10	22.19	22.22			
5	16QAM	12	13	22.45	22.47	22.41	22.39	22.52	22.41			
5	16QAM	12	13	22.14	22.28	22.34	22.39	22.35	22.34			
5	16QAM	1	0	22.08	22.21	22.25	22.22	22.03	22.25	23	0.8	
5	16QAM	1	0	22.42	22.44	22.56	22.42	22.47	22.56			
5	16QAM	1	12	22.38	22.23	22.41	22.44	22.46	22.47			
5	16QAM	24	24	22.41	22.32	22.42	22.32	22.41	22.32			
5	16QAM	12	0	21.29	21.20	21.36	21.38	21.31	21.31	23	0.8	
5	16QAM	12	7	21.52	21.28	21.42	21.35	21.41	21.41			
5	16QAM	12	13	21.60	21.38	21.42	21.33	21.47	21.47			
5	16QAM	25	0	21.22	21.30	21.39	21.35	21.40	21.40			
5	256QAM	1	24	19.32	19.38	19.41	19.41	19.41	19.41	21	2.9	
5	256QAM	1	12	19.24	19.31	19.45	19.25	19.20	19.45			
5	256QAM	1	24	19.33	19.46	19.53	19.35	19.20	19.53			
5	256QAM	10	0	19.16	19.18	19.41	19.18	19.38	19.41			
5	256QAM	10	7	19.23	19.30	19.34	19.22	19.20	19.34	21	2.9	
5	256QAM	12	13	19.16	19.38	19.47	19.18	19.45	19.45			
5	256QAM	12	13	19.1								

GSM1200 A/G									
Limit		Base Average Power (dBm)			Tx Power		Frame Average Power (dBm)		
Tx Channel		812	861	810	Limit	812	861	810	Limit
Transmit (dBm)		100.0	100.0	100.0	(dBm)	100.0	100.0	100.0	(dBm)
CRM 1 Tx Mit		20.31	20.04	20.43	30.00	20.31	20.04	20.43	21.00
CRM 1 Tx Mit		20.24	20.47	20.30	30.00	20.24	20.47	20.30	21.00
CRM 3 Tx Mit		20.06	20.04	20.72	27.00	19.86	19.84	19.72	21.00
CRM 3 Tx Mit		24.42	24.30	24.48	25.00	20.18	20.09	20.22	21.24
CRM 4 Tx Mit		21.84	21.00	21.86	23.00	19.64	18.91	19.86	20.00
EDGE 1 Tx Mit		23.82	23.87	23.88	25.00	14.82	14.87	14.88	16.00
EDGE 2 Tx Mit		22.10	22.70	22.13	23.00	14.70	16.16	14.70	17.00
EDGE 4 Tx Mit		20.00	20.00	20.00	22.00	18.64	16.72	16.61	17.24
EDGE 4 Tx Mit		18.75	18.81	18.81	20.00	12.75	15.80	12.81	17.00
WCDMA A/G									
Band		WCDMA S			Tx Power		WCDMA IV		
Tx Channel		5862	5860	5858	Limit	5812	5811	5813	Limit
Rx Channel		5862	5860	5858	(dBm)	5812	5808	5798	(dBm)
Transmit (dBm)		19.00	19.00	19.00	22.00	19.00	19.00	19.00	22.00
SOPP Rel 56		21.23	21.30	21.21	22.00	21.48	21.70	21.70	23.30
SOPP Rel 56		21.25	21.21	21.44	22.00	21.58	21.70	21.70	23.30
SOPP Rel 6		20.27	20.41	20.21	21.00	20.77	20.90	20.61	22.30
SOPP Rel 6		20.28	20.20	20.19	21.00	20.79	20.77	20.58	22.30
SOPP Rel 6		19.84	19.81	19.80	21.00	21.17	20.20	20.00	21.80
SOPP Rel 6		19.75	19.84	19.58	21.00	20.40	20.09	20.00	21.80
SOPP Rel 6		20.45	20.24	20.30	21.00	20.03	20.00	20.07	22.30
SOPP Rel 6		20.14	20.20	20.11	21.00	20.05	20.01	20.05	22.30
SOPP Rel 6		19.88	19.85	19.85	21.00	20.32	20.27	19.97	21.80
SOPP Rel 6		19.83	19.70	19.47	21.00	20.07	20.08	20.11	21.80
SOPP Rel 6		21.46	21.32	21.18	21.00	21.65	21.73	21.41	22.30
SOPP Rel 6		19.26	19.20	19.25	19.00	14.51	14.72	14.30	20.30
SOPP Rel 6		20.20	20.41	20.02	20.00	20.64	20.73	20.44	21.30
SOPP Rel 6		19.38	19.21	19.14	19.00	19.49	19.71	19.62	20.30
SOPP Rel 6		21.15	21.34	21.17	21.00	21.08	21.08	21.04	22.30

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)	MPR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	21.08	21.10	21.01			21.8	0			
20	QPSK	1	49	21.05	21.05	21.05							
20	QPSK	1	99	20.89	20.98	20.84			21.8	0			
20	QPSK	50	0	20.97	21.07	20.98							
20	QPSK	50	24	20.97	21.00	20.97			21.8	0			
20	QPSK	50	50	20.90	21.02	20.93							
20	QPSK	100	0	21.00	21.12	20.98			21.8	0			
20	16QAM	50	0	20.95	21.05	20.99							
20	16QAM	1	49	21.01	21.10	21.03			21.8	0			
20	16QAM	1	99	20.97	21.05	20.98							
20	16QAM	50	0	20.91	20.95	20.99			21.8	0			
20	16QAM	50	24	20.98	20.97	20.95							
20	16QAM	50	50	20.97	20.72	20.86			21.8	0			
20	16QAM	100	0	20.94	20.98	20.92							
20	64QAM	1	0	20.99	20.74	20.67			21.8	0			
20	64QAM	1	49	20.77	20.99	20.69							
20	64QAM	1	99	20.81	20.73	20.83			21	0.8			
20	64QAM	50	0	19.54	19.68	19.59							
20	64QAM	50	24	19.55	19.65	19.52			21	0.8			
20	64QAM	50	50	19.64	19.75	19.62							
20	64QAM	100	0	19.53	19.63	19.58			19	2.8			
20	256QAM	1	49	17.71	17.73	17.76							
20	256QAM	1	99	17.61	17.70	17.59			19	2.8			
20	256QAM	50	0	17.66	17.75	17.67							
20	256QAM	50	24	17.54	17.61	17.49			19	2.8			
20	256QAM	50	50	17.65	17.71	17.61							
20	256QAM	100	0	17.54	17.60	17.57							
Channel													
Frequency (MHz)													
18	QPSK	1	0	20.96	21.09	20.94			21.8	0			
18	QPSK	1	37	20.94	21.03	20.95							
18	QPSK	1	74	20.78	20.92	20.76			21.8	0			
18	QPSK	36	0	20.93	21.01	20.93							
18	QPSK	36	0	20.85	20.94	20.89			21.8	0			
18	QPSK	36	36	20.85	20.96	20.87							
18	QPSK	75	0	20.89	21.07	20.90			21.8	0			
18	16QAM	1	0	20.92	20.93	20.78							
18	16QAM	1	37	20.97	20.96	20.97			21.8	0			
18	16QAM	1	74	20.84	20.92	20.78							
18	16QAM	36	0	20.38	20.57	20.38			21.8	0			
18	16QAM	36	20	20.50	20.62	20.59							
18	16QAM	36	0	20.52	20.58	20.53			21.8	0			
18	16QAM	75	0	20.52	20.58	20.53							
18	64QAM	1	0	20.46	20.60	20.50			21.8	0			
18	64QAM	1	37	20.54	20.60	20.58							
18	64QAM	1	74	20.50	20.62	20.59			21	0.8			
18	64QAM	36	0	19.48	19.61	19.51							
18	64QAM	36	0	19.44	19.58	19.46			21	0.8			
18	64QAM	36	36	19.49	19.55	19.51							
18	64QAM	75	0	19.39	19.59	19.47			19	2.8			
18	256QAM	1	0	17.59	17.70	17.72							
18	256QAM	1	74	17.60	17.68	17.58			19	2.8			
18	256QAM	1	37	17.61	17.64	17.58							
18	256QAM	36	20	17.39	17.50	17.42			19	2.8			
18	256QAM	36	39	17.52	17.66	17.55							
18	256QAM	75	0	17.45	17.60	17.43							
Channel													
Frequency (MHz)													
18	QPSK	1	0	20.96	21.09	20.94			21.8	0			
18	QPSK	1	25	20.90	21.01	20.94							
18	QPSK	1	49	20.77	20.85	20.76			21.8	0			
18	QPSK	36	0	20.97	21.06	20.98							
18	QPSK	25	12	20.91	20.93	20.93			21.8	0			
18	QPSK	25	25	20.87	20.87	20.88							
18	QPSK	36	0	20.89	20.96	20.90			21.8	0			
18	16QAM	1	0	20.85	20.97	20.79							
18	16QAM	1	25	20.80	20.91	20.86			21.8	0			
18	16QAM	25	0	20.37	20.57	20.39							
18	16QAM	25	12	20.43	20.62	20.49			21.8	0			
18	16QAM	36	0	20.60	20.63	20.57							
18	16QAM	50	0	20.55	20.57	20.59			21.8	0			
18	64QAM	1	0	20.51	20.62	20.53							
18	64QAM	1	24	20.72	20.71	20.74			21.8	0			
18	64QAM	1	49	20.48	20.64	20.57							
18	64QAM	25	0	19.46	19.54	19.50			21	0.8			
18	64QAM	25	12	19.42	19.48	19.45							
18	64QAM	25	25	19.53	19.50	19.55			19	2.8			
18	64QAM	50	0	19.49	19.54	19.52							
18	256QAM	1	0	17.55	17.68	17.65			19	2.8			
18	256QAM	1	25	17.69	17.67	17.66							
18	256QAM	1	49	17.60	17.70	17.54			19	2.8			
18	256QAM	25	0	17.46	17.51	17.50							
18	256QAM	25	12	17.45	17.50	17.51			19	2.8			
18	256QAM	25	25	17.52	17.61	17.53							
18	256QAM	50	0	17.43	17.48	17.38							
Channel													
Frequency (MHz)													
5	QPSK	1	0	20.99	21.05	20.95			21.8	0			
5	QPSK	1	12	20.90	21.00	20.96							
5	QPSK	1	24	20.85	20.90	20.81			21.8	0			
5	QPSK	12	7	20.88	20.88	20.87							
5	QPSK	12	13	20.82	20.96	20.89			21.8	0			
5	QPSK	20	0	20.93	21.07	20.94							
5	16QAM	1	0	20.92	20.90	20.90			21.8	0			
5	16QAM	1	12	20.92	21.00	20.91							
5	16QAM	1	24	20.83	20.93	20.81			21.8	0			
5	16QAM	12	0	20.41	20.52	20.38							
5	16QAM	12	7	20.47	20.60	20.45			21.8	0			
5	16QAM	12	13	20.44	20.54	20.35							
5	16QAM	25	0	20.59	20.66	20.58			21.8	0			
5	64QAM	1	0	20.46	20.66	20.52							
5	64QAM	1	12	20.44	20.71	20.52			21.8	0			
5	64QAM	1	24	20.51	20.58	20.48							
5	64QAM	12	0	19.39	19.63	19.55			21	0.8			
5	64QAM	12	7	19.45	19.55	19.43							
5	64QAM	12	13	19.50	19.63	19.59			19	2.8			
5	64QAM	25	0	19.49	19.67	19.50							
5	256QAM	1	0	17.47	17.60	17.58			19	2.8			
5	256QAM	1	12	17.68	17.71	17.71							
5	256QAM	1	24	17.58	17.66	17.63			19	2.8			
5	256QAM	12	0	17.49	17.58	17.43							
5	256QAM	12	7	17.47	17.54	17.47			19	2.8			
5	256QAM	12	13	17.50	17.68	17.54							
5	256QAM	25	0	17.49	17.50	17.45							
Channel													
Frequency (MHz)													
3	QPSK	1	0	21.00	21.00	20.95			21.8	0			
3	QPSK	1	8	21.00	21.00	20.93							
3	QPSK	1	14	20.80	20.93	20.79			21.8	0			
3	QPSK	8	0	20.92	21.02	20.95							
3	QPSK	8	4	20.88	20.95	20.84			21.8	0			
3	QPSK	8	7	20.81	20.89	20.80							
3	QPSK	15	0	20.88	21.05	20.88			21.8	0			
3	16QAM	1	0	20.97	20.96	20.82							
3	16QAM	1	8	20.97	20.99	20.94			21.8	0			
3	16QAM	1	14	20.86	21.02	20.85							
3	16QAM	8	0	20.92	21.04	20.95			21.8	0			
3	16QAM	8	4	20.43	20.55	20.51							
3	16QAM	8	7	20.47	20.63	20.57			21.8	0			
3	16QAM	15	0	20.89	20.98	20.83							
3	64QAM	1	0	20.45	20.63	20.52			21.8	0			
3	64QAM	1	8	20.63	20.68	20.64							
3	64QAM	8	4	19.54	19.64	19.54			21	0.8			
3	64QAM	8	7	19.50	19.64	19.50							
3	64QAM	8	14	19.48	19.52	19.48			21	0.8			
3	64QAM	15	0	19.43	19.63	19.43							
3	256QAM	1	0	17.46	17.59	17.56			19	2.8			
3	256QAM	1	8	17.56	17.64	17.64							
3	256QAM	1	14	17.57	17.65	17.60			19	2.8			
3	256QAM	8	0	17.44	17.59	17.43							
3	256QAM	8	7	17.52	17.59	17.57			19	2.8			
3	256QAM	15	0	17.46	17.50	17.45							
Channel													
Frequency (MHz)													
1.4	QPSK	1	0	20.95	21.11	20.96			21.8		0		
1.4	QPSK	1	8	20.98	21.07	20.93							
1.4	QPSK	1	15	20.81	20.96	20.86			21.8	0			
1.4	QPSK	3	0	20.84	20.94	20.85							
1.4	QPSK	3	8	20.92	21.00	20.90			21.8	0			
1.4	QPSK	3	15	20.86	20.98	20.87							
1.4	QPSK	6	0	20.96	21.01	20.96			21.8	0			
1.4	QPSK	6	8	20.94	20.94	20.94							
1.4	QPSK	6	15	20.91	20.96	20.90			21.8	0			
1.4	QPSK	6	22	20.86	20.96	20.87							
1.4	16QAM	1	0	20.76	20.94	20.84			21.8	0			
1.4	16QAM	1	8	20.98	20.98	20.91							
1.4	16QAM	1	15	20.47	20.61	20.60			21.8	0			
1.4	16QAM	3	0	20.73	20.79	20.73							
1.4	16QAM	3	8	20.51	20.66	20.51			21.8	0			

Band 25 Ant2											
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq. 20145	Power Middle Ch / Freq. 20160	Power High Ch / Freq. 20165	Turn-up time (sec)	MPR (dB)			
Channel											
1800 1880 1900											
20	QPSK	1	0	20.97	21.22	21.10	21.8	0			
20	QPSK	1	49	21.12	21.19	21.11					
20	QPSK	1	99	21.12	21.18	21.11					
20	QPSK	50	0	21.04	21.17	21.02					
20	QPSK	50	24	20.88	21.10	21.03	21.8	0			
20	QPSK	50	50	20.92	21.03	20.92					
20	QPSK	100	0	21.09	21.16	21.11					
20	16QAM	1	0	21.06	21.10	21.04					
20	16QAM	1	49	21.03	21.10	21.04	21.8	0			
20	16QAM	1	99	21.06	21.06	21.00					
20	16QAM	50	0	20.92	20.99	20.95					
20	16QAM	50	24	20.90	20.99	20.94					
20	64QAM	1	0	20.85	20.70	20.63	21.8	0			
20	64QAM	1	49	20.83	20.77	20.73					
20	64QAM	1	99	20.57	20.62	20.64					
20	64QAM	50	0	19.53	19.65	19.51					
20	64QAM	50	24	19.59	19.69	19.56	21	0.8			
20	64QAM	50	50	19.41	19.74	19.65					
20	64QAM	100	0	19.57	19.65	19.61					
20	256QAM	1	0	17.64	17.77	17.62					
20	256QAM	1	49	17.58	17.62	17.53	19	2.8			
20	256QAM	1	99	17.65	17.74	17.61					
20	256QAM	50	0	17.56	17.64	17.61					
20	256QAM	50	24	17.56	17.68	17.58					
20	256QAM	50	50	17.67	17.73	17.64	19	2.8			
20	256QAM	100	0	17.66	17.69	17.64					
Channel											
1807.5 1880 1907.5											
15	QPSK	1	0	20.84	21.07	20.98	21.8	0			
15	QPSK	1	37	21.04	21.08	20.97					
15	QPSK	1	74	21.08	21.01	21.03					
15	QPSK	36	0	20.99	21.07	20.98					
15	QPSK	36	20	20.93	21.00	20.90	21.8	0			
15	QPSK	36	39	20.79	20.96	20.85					
15	QPSK	75	0	21.01	21.10	21.02					
15	16QAM	1	0	20.99	21.08	20.93					
15	16QAM	1	37	20.98	21.10	20.99	21.8	0			
15	16QAM	1	74	21.02	21.04	21.00					
15	16QAM	36	0	20.48	20.57	20.39					
15	16QAM	36	20	20.48	20.54	20.37					
15	16QAM	50	0	20.48	20.50	20.57	21.8	0			
15	64QAM	1	0	20.57	20.62	20.56					
15	64QAM	1	37	20.47	20.52	20.40					
15	64QAM	1	74	20.47	20.52	20.40					
15	64QAM	36	0	19.46	19.53	19.43	21	0.8			
15	64QAM	36	20	19.50	19.66	19.46					
15	64QAM	36	39	19.35	19.52	19.32					
15	64QAM	75	0	19.54	19.58	19.57					
15	256QAM	1	0	17.53	17.65	17.54	19	2.8			
15	256QAM	1	37	17.49	17.54	17.41					
15	256QAM	1	74	17.53	17.66	17.63					
15	256QAM	36	0	17.50	17.62	17.46					
15	256QAM	36	20	17.47	17.53	17.48	19	2.8			
15	256QAM	36	39	17.57	17.59	17.59					
15	256QAM	75	0	17.41	17.68	17.56					
Channel											
20900 20940 20940											
1805 1880 1910											
10	QPSK	1	0	20.93	21.14	21.04	21.8	0			
10	QPSK	1	25	20.99	21.08	21.04					
10	QPSK	1	49	21.04	21.08	21.02					
10	QPSK	1	99	21.00	21.01	21.00					
10	QPSK	25	12	20.94	21.04	20.92	21.8	0			
10	QPSK	25	25	20.81	20.91	20.82					
10	QPSK	50	0	21.02	21.12	21.02					
10	16QAM	1	0	20.91	21.04	20.90					
10	16QAM	1	25	20.93	21.10	20.94	21.8	0			
10	16QAM	1	49	20.92	20.96	20.96					
10	16QAM	25	0	20.48	20.57	20.39					
10	16QAM	25	12	20.54	20.58	20.38					
10	16QAM	36	0	20.16	20.58	20.44	21.8	0			
10	16QAM	36	20	20.50	20.54	20.38					
10	64QAM	1	0	20.58	20.63	20.52					
10	64QAM	1	25	20.54	20.58	20.58					
10	64QAM	1	49	20.52	20.49	20.48	21	0.8			
10	64QAM	25	0	19.45	19.58	19.45					
10	64QAM	25	12	19.55	19.30	19.47					
10	64QAM	25	25	19.54	19.63	19.55					
10	64QAM	50	0	19.51	19.56	19.46	19	2.8			
10	256QAM	1	0	17.58	17.71	17.58					
10	256QAM	1	25	17.48	17.48	17.41					
10	256QAM	1	49	17.56	17.62	17.52					
10	256QAM	25	0	17.44	17.58	17.38	19	2.8			
10	256QAM	25	12	17.49	17.59	17.36					
10	256QAM	25	25	17.64	17.60	17.58					
10	256QAM	50	0	17.58	17.62	17.51					
Channel											
20960 20940 20940											
1802.5 1880 1912.5											
5	QPSK	1	0	20.93	21.15	21.04	21.8	0			
5	QPSK	1	12	21.00	21.16	21.02					
5	QPSK	1	24	21.07	21.08	21.05					
5	QPSK	12	0	20.91	21.03	20.98					
5	QPSK	12	7	20.85	21.04	20.91	21.8	0			
5	QPSK	12	13	20.78	21.00	20.81					
5	QPSK	25	0	21.02	21.03	20.98					
5	16QAM	1	0	20.91	20.99	20.92					
5	16QAM	1	12	20.98	21.08	21.00	21.8	0			
5	16QAM	1	24	20.93	20.96	20.91					
5	16QAM	12	0	20.57	20.59	20.53					
5	16QAM	12	7	20.53	20.53	20.39					
5	16QAM	12	13	20.56	20.50	20.45	21.8	0			
5	16QAM	25	0	20.48	20.50	20.38					
5	64QAM	1	0	20.54	20.57	20.50					
5	64QAM	1	12	20.56	20.70	20.59					
5	64QAM	1	24	20.46	20.47	20.47	21	0.8			
5	64QAM	12	0	19.39	19.53	19.41					
5	64QAM	12	7	19.54	19.38	19.48					
5	64QAM	12	13	19.57	19.69	19.62					
5	64QAM	25	0	19.62	19.69	19.56	19	2.8			
5	256QAM	1	0	17.53	17.67	17.58					
5	256QAM	1	12	17.54	17.50	17.39					
5	256QAM	1	24	17.60	17.70	17.62					
5	256QAM	12	0	17.48	17.53	17.43	19	2.8			
5	256QAM	12	7	17.41	17.62	17.48					
5	256QAM	12	13	17.58	17.55	17.59					
5	256QAM	25	0	17.63	17.55	17.53					
Channel											
20960 20940 20940											
1802.5 1880 1912.5											
3	QPSK	1	0	20.93	21.15	21.04	21.8	0			
3	QPSK	1	8	21.05	21.05	20.97					
3	QPSK	1	14	21.08	21.12	21.06					
3	QPSK	3	0	20.92	21.14	20.95					
3	QPSK	6	4	20.88	20.97	21.00	21.8	0			
3	QPSK	6	7	20.85	20.93	20.85					
3	QPSK	6	15	21.04	21.10	21.05					
3	16QAM	1	0	21.02	21.07	20.96					
3	16QAM	1	8	20.89	21.02	20.95	21.8	0			
3	16QAM	1	14	20.98	20.99	20.91					
3	16QAM	6	0	20.51	20.63	20.55					
3	16QAM	6	4	20.50	20.56	20.42					
3	16QAM	15	0	20.53	20.56	20.49	21.8	0			
3	16QAM	15	0	20.55	20.64	20.57					
3	64QAM	1	0	20.50	20.72	20.59	21.8	0			
3	64QAM	1	8	20.47	20.53	20.43					
3	64QAM	1	14	20.47	20.53	20.43					
3	64QAM	6	0	19.47	19.61	19.39					
3	64QAM	6	4	19.47	19.61	19.51	21	0.8			
3	64QAM	6	7	19.47	19.70	19.60					
3	64QAM	15	0	19.42	19.62	19.58					
3	256QAM	1	0	17.52	17.68	17.48					
3	256QAM	1	8	17.53	17.68	17.58	19	2.8			
3	256QAM	1	14	17.60	17.67	17.65					
3	256QAM	6	0	17.52	17.61	17.46					
3	256QAM	6	7	17.51	17.68	17.51					
3	256QAM	6	15	17.61	17.64	17.61	19	2.8			
3	256QAM	15	0	17.58	17.60	17.47					
Channel											
20960 20940 20940											
1802.5 1880 1912.5											
1.4	QPSK	1	0	20.92	21.16	21.03			21.8	0	
1.4	QPSK	1	8	21.06	21.06	21.00					
1.4	QPSK	1	14	21.02	21.06	21.00					
1.4	QPSK	3	0	21.00	21.06	20.98					
1.4	QPSK	3	4	20.99	21.05	20.99	21.8	0			
1.4	QPSK	3	7	20.98	21.04	20.98					
1.4	QPSK	3	14	21.05	21.09	21.03					
1.4	QPSK	3	15	21.05	21.09	21.03					
1.4	QPSK	3	3	20.78	20.98	20.88	21.8	0			
1.4	QPSK	3	6	20.86	20.95	20.89					
1.4	QPSK	3	9	20.83	20.89	20.79					
1.4	QPSK	3	12	20.95	20.98	20.91					
1.4	16QAM	1	0	20.55	20.56	20.50	21.8	0			
1.4	16QAM	1	8	20.50	20.74	20.59					
1.4	16QAM	1	14	20.51	20.59	20.51					
1.4	16QAM	3	0	20.39	20.54	20.44					
1.4	16QAM	3	4	20.39	20.59	20.50	21.8	0			
1.4	16QAM	3	7	20.57	20.71	20.54					
1.4	16QAM	3	15	20.56	20.56	20.51					
1.4	16QAM	3	16	20.57	20.58	20.51					
1.4	16QAM	3	17	20.56	20.56	20.51	21	0.8			
1.4	16QAM	3	18	20.56	20.56	20.51					
1.4	16QAM	3	19	20.56	20.56	20.51					
1.4	16QAM	3	20	20.56	20.56	20.51					
1.4	16QAM	3	21	20.56	20.56	20.51	19	2.8			
1.4	16QAM	3	22	20.56	20.56	20.51					
1.4	16QAM	3	23	20.56	20.56	20.51					
1.4	16QAM	3	24	20.56							

Band 38 Ant2											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dB)	MPR (dB)			
Channel				37650	38050	38150					
Frequency (MHz)				2260	2290	2310					
20	QPSK	1	0	22.72	22.90	22.98	23.4	0			
20	QPSK	1	40	22.71	22.84	22.80					
20	QPSK	1	80	22.68	22.77	22.71					
20	QPSK	50	0	21.82	21.90	21.93					
20	QPSK	50	24	21.84	21.89	21.79	23	0.4			
20	QPSK	50	40	21.88	21.88	21.79					
20	QPSK	100	0	21.81	21.90	21.85					
20	16QAM	1	0	21.76	21.85	21.78					
20	16QAM	1	40	21.68	21.74	21.60	23	0.4			
20	16QAM	1	80	21.74	21.81	21.73					
20	16QAM	50	0	20.81	20.85	20.80					
20	16QAM	50	24	20.77	20.80	20.70					
20	16QAM	50	40	20.83	20.76	20.71	22	1.4			
20	16QAM	100	0	20.69	20.66	20.64					
20	16QAM	100	0	20.70	20.70	20.65					
20	64QAM	1	0	20.70	20.70	20.65					
20	64QAM	1	40	20.78	20.91	20.83	22	1.4			
20	64QAM	1	80	20.74	20.84	20.74					
20	64QAM	50	0	19.78	19.85	19.72					
20	64QAM	50	24	19.76	19.81	19.77					
20	64QAM	50	40	19.88	19.70	19.68	21	2.4			
20	64QAM	100	0	19.82	19.96	19.90					
20	256QAM	1	0	17.84	17.94	17.82					
20	256QAM	1	40	17.79	17.85	17.85	19	4.4			
20	256QAM	1	80	17.89	17.92	17.84					
20	256QAM	50	0	17.78	17.84	17.73					
20	256QAM	50	24	17.80	17.83	17.74					
20	256QAM	50	40	17.82	17.78	17.67	19	4.4			
20	256QAM	100	0	17.85	17.82	17.61					
Channel				37650	38050	38150					
Frequency (MHz)				2377.3	2395	2412.5					
15	QPSK	1	0	22.63	22.73	22.74	23.4			0	
15	QPSK	1	37	22.68	22.73	22.68					
15	QPSK	1	74	22.63	22.63	22.84					
15	QPSK	36	0	21.79	21.80	21.84					
15	QPSK	36	20	21.75	21.78	21.78	23	0.4			
15	QPSK	36	40	21.78	21.67	21.70					
15	QPSK	75	0	21.76	21.82	21.70					
15	16QAM	1	0	21.67	21.73	21.65					
15	16QAM	1	37	21.25	21.47	21.47	23	0.4			
15	16QAM	1	74	21.60	21.70	21.70					
15	16QAM	36	0	20.73	20.73	20.67					
15	16QAM	36	20	20.62	20.65	20.58	22	1.4			
15	16QAM	36	39	20.54	20.70	20.56					
15	16QAM	75	0	20.81	20.86	20.69					
15	16QAM	75	0	20.78	20.84	20.73					
15	64QAM	1	0	20.79	20.79	20.69	22	1.4			
15	64QAM	1	37	20.68	20.70	20.69					
15	64QAM	1	74	20.63	20.73	20.81					
15	64QAM	36	0	19.87	19.71	19.82					
15	64QAM	36	20	18.89	19.74	19.64	21	2.4			
15	64QAM	36	39	18.82	19.65	19.62					
15	64QAM	75	0	19.71	19.80	19.70					
15	256QAM	1	0	17.76	17.82	17.78					
15	256QAM	1	37	17.75	17.84	17.75	19	4.4			
15	256QAM	1	74	17.81	17.82	17.80					
15	256QAM	36	0	17.65	17.81	17.88					
15	256QAM	36	20	17.75	17.63	17.63					
15	256QAM	36	39	17.48	17.68	17.63	19	4.4			
15	256QAM	75	0	17.70	17.86	17.87					
Channel				37650	38050	38150					
Frequency (MHz)				2515	2525	2515					
10	QPSK	1	0	22.68	22.72	22.73	23.4	0			
10	QPSK	1	25	22.81	22.79	22.73					
10	QPSK	1	49	22.81	22.82	22.65					
10	QPSK	36	0	21.74	21.80	21.81					
10	QPSK	25	12	21.79	21.78	21.69	23	0.4			
10	QPSK	25	25	21.82	21.82	21.75					
10	QPSK	36	0	21.73	21.86	21.77					
10	16QAM	1	0	21.70	21.70	21.65					
10	16QAM	1	25	21.68	21.68	21.66	23	0.4			
10	16QAM	1	49	21.64	21.67	21.64					
10	16QAM	25	0	20.70	20.77	20.71					
10	16QAM	25	12	20.68	20.74	20.65	22	1.4			
10	16QAM	25	25	20.46	20.63	20.63					
10	16QAM	50	0	20.76	20.88	20.79					
10	16QAM	50	0	20.79	20.84	20.72					
10	64QAM	1	25	20.71	20.85	20.77	22	1.4			
10	64QAM	1	49	20.66	20.80	20.82					
10	64QAM	25	0	19.74	19.82	19.68					
10	64QAM	25	12	19.84	19.70	19.88					
10	64QAM	25	25	19.65	19.65	19.58	21	2.4			
10	64QAM	50	0	19.76	19.87	19.81					
10	256QAM	1	0	17.74	17.83	17.68					
10	256QAM	1	25	17.88	17.76	17.76	19	4.4			
10	256QAM	1	49	17.81	17.88	17.75					
10	256QAM	25	0	17.68	17.74	17.69					
10	256QAM	25	12	17.73	17.69	17.64					
10	256QAM	25	25	17.50	17.71	17.61	19	4.4			
10	256QAM	50	0	17.76	17.78	17.78					
Channel				3773.5	3800	3822.5					
Frequency (MHz)				22.63	22.75	22.74					
5	QPSK	1	0	22.63	22.75	22.74	23.4	0			
5	QPSK	1	12	22.58	22.70	22.68					
5	QPSK	1	24	22.58	22.69	22.58					
5	QPSK	12	0	21.88	21.82	21.88					
5	QPSK	12	7	21.71	21.77	21.75	23	0.4			
5	QPSK	12	13	21.79	21.79	21.71					
5	QPSK	26	0	21.74	21.67	21.72					
5	16QAM	1	0	21.72	21.80	21.71					
5	16QAM	1	12	21.62	21.81	21.62	23	0.4			
5	16QAM	1	24	21.69	21.74	21.68					
5	16QAM	12	0	20.72	20.81	20.69					
5	16QAM	12	7	20.74	20.67	20.58					
5	16QAM	12	13	20.88	20.67	20.62	22	1.4			
5	16QAM	26	0	20.85	20.92	20.74					
5	64QAM	1	0	20.82	20.91	20.80					
5	64QAM	1	12	20.73	20.86	20.77					
5	64QAM	1	24	20.68	20.77	20.68	22	1.4			
5	64QAM	1	0	19.88	19.72	19.68					
5	64QAM	12	0	19.72	19.75	19.66					
5	64QAM	12	13	19.88	19.69	19.64					
5	64QAM	26	0	19.71	19.83	19.66	21	2.4			
5	256QAM	1	0	17.72	17.87	17.74					
5	256QAM	1	12	17.67	17.84	17.75					
5	256QAM	1	24	17.82	17.70	17.77					
5	256QAM	12	0	17.73	17.76	17.65					
5	256QAM	12	7	17.77	17.76	17.69	19	4.4			
5	256QAM	12	13	17.69	17.65	17.58					
5	256QAM	26	0	17.72	17.83	17.66					

Band 38 HPUE Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel				37850	38050	38150			
Frequency (MHz)				2380	2390	2400			
20	QPSK	1	0	23.83	23.97	23.93	25	0	
20	QPSK	1	49	23.76	23.81	23.78			
20	QPSK	50	50	23.84	23.91	23.85			
20	QPSK	50	99	23.86	23.93	23.87			
20	QPSK	80	24	23.78	23.85	23.81			
20	QPSK	80	74	23.80	23.87	23.77			
20	QPSK	100	0	23.83	23.90	23.75			
20	16QAM	1	0	23.85	23.95	23.88			
20	16QAM	50	49	23.88	23.94	23.85			
20	16QAM	1	99	23.69	23.81	23.75			
20	16QAM	50	0	23.69	23.84	23.75			
20	16QAM	50	50	23.68	23.83	23.75			
20	16QAM	50	99	23.68	23.81	23.75			
20	64QAM	1	0	23.85	23.90	23.85			
20	64QAM	50	50	23.86	23.93	23.85			
20	64QAM	50	24	23.77	23.85	23.81			
20	64QAM	80	0	23.82	23.87	23.77			
20	64QAM	80	49	23.84	23.91	23.85			
20	64QAM	100	0	23.86	23.93	23.85			
20	256QAM	1	0	23.87	23.90	23.81			
20	256QAM	50	24	23.77	23.85	23.81			
20	256QAM	1	99	23.72	23.81	23.80			
20	256QAM	50	0	23.76	23.81	23.75			
20	256QAM	50	50	23.61	23.74	23.57			
20	256QAM	100	0	23.64	23.74	23.57			
Channel <th>37825</th> <th>38050</th> <th>38175</th> <th>Tune-up Int. (dBm)</th> <th colspan="2">MPR (dB)</th>				37825	38050	38175	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				2372.5	2390	2417.5			
15	QPSK	1	0	23.73	23.80	23.75	25	0	
15	QPSK	1	37	23.56	23.68	23.62			
15	QPSK	1	74	23.76	23.76	23.75			
15	QPSK	36	0	23.69	23.73	23.65			
15	QPSK	36	20	23.56	23.69	23.65			
15	QPSK	36	40	23.62	23.67	23.65			
15	QPSK	36	59	23.67	23.71	23.68			
15	16QAM	1	0	23.65	23.81	23.62			
15	16QAM	36	0	23.75	23.83	23.80			
15	16QAM	1	74	23.59	23.71	23.68			
15	16QAM	36	0	23.55	23.78	23.67			
15	16QAM	36	20	23.59	23.62	23.60			
15	16QAM	36	39	23.43	23.65	23.49			
15	16QAM	36	59	23.75	23.69	23.64			
15	64QAM	1	0	23.61	23.81	23.61			
15	64QAM	1	37	23.42	23.70	23.55			
15	64QAM	36	0	23.62	23.68	23.58			
15	64QAM	36	20	23.43	23.60	22.51			
15	64QAM	36	20	22.48	22.48	22.48			
15	64QAM	36	40	22.51	22.51	22.49			
15	64QAM	75	0	22.53	22.59	22.61			
15	256QAM	1	0	23.65	23.76	23.65			
15	256QAM	1	37	23.65	23.76	23.65			
15	256QAM	1	74	23.62	23.81	23.62			
15	256QAM	36	20	23.65	23.80	23.65			
15	256QAM	36	20	23.65	23.80	23.65			
15	256QAM	36	39	23.54	23.78	23.54			
15	256QAM	75	0	23.78	23.77	23.71			
Channel <th>37800</th> <th>38050</th> <th>38050</th> <th>Tune-up Int. (dBm)</th> <th colspan="2">MPR (dB)</th>				37800	38050	38050	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				2372.5	2390	2390			
5	QPSK	1	0	23.72	23.72	23.71	25	0	
5	QPSK	1	25	23.63	23.71	23.74			
5	QPSK	1	50	23.68	23.72	23.71			
5	QPSK	1	75	23.65	23.81	23.68			
5	QPSK	25	12	23.71	23.70	23.69			
5	QPSK	25	37	23.72	23.81	23.77			
5	QPSK	50	0	23.75	23.78	23.69			
5	16QAM	1	0	23.73	23.79	23.77			
5	16QAM	25	0	23.78	23.77	23.77			
5	16QAM	1	49	23.60	23.72	23.78			
5	16QAM	25	0	23.56	23.71	23.75			
5	16QAM	25	25	23.68	23.79	23.65			
5	16QAM	25	25	23.54	23.74	23.58			
5	64QAM	1	0	23.68	23.69	23.69			
5	64QAM	1	0	23.67	23.69	23.72			
5	64QAM	1	25	23.51	23.81	23.48			
5	64QAM	25	0	23.59	23.79	23.76			
5	64QAM	25	0	23.39	23.72	22.45			
5	64QAM	25	12	22.47	22.53	22.47			
5	64QAM	25	12	22.47	22.50	22.47			
5	64QAM	50	0	22.54	22.70	22.73			
5	64QAM	50	0	22.56	22.70	22.73			
5	256QAM	1	25	23.72	23.78	23.73			
5	256QAM	1	49	23.67	23.73	23.66			
5	256QAM	25	12	23.68	23.76	23.65			
5	256QAM	25	12	23.63	23.82	23.47			
5	256QAM	25	25	23.54	23.74	23.58			
5	256QAM	50	0	23.76	23.78	23.71			
Channel <th>37775</th> <th>38050</th> <th>38025</th> <th>Tune-up Int. (dBm)</th> <th colspan="2">MPR (dB)</th>				37775	38050	38025	Tune-up Int. (dBm)	MPR (dB)	
Frequency (MHz)				2372.5	2390	2397.5			
5	QPSK	1	0	23.63	23.72	23.67	25	0	
5	QPSK	1	12	23.63	23.72	23.65			
5	QPSK	24	24	23.71	23.74	23.74			
5	QPSK	12	0	23.62	23.67	23.62			
5	QPSK	12	0	23.59	23.73	23.73			
5	QPSK	12	12	23.63	23.71	23.71			
5	QPSK	25	0	23.65	23.82	23.59			
5	16QAM	1	0	23.79	23.82	23.74			
5	16QAM	12	12	23.67	23.77	23.66			
5	16QAM	1	24	23.60	23.72	23.68			
5	16QAM	12	0	23.56	23.76	23.70			
5	16QAM	12	7	23.55	23.75	23.64			
5	16QAM	12	13	23.45	23.61	23.63			
5	64QAM	1	0	23.76	23.81	23.67			
5	64QAM	1	0	23.69	23.68	23.74			
5	64QAM	1	12	23.43	23.67	23.51			
5	64QAM	12	24	23.43	23.71	23.51			
5	64QAM	12	0	22.44	22.55	22.43			
5	64QAM	12	0	22.46	22.48	22.43			
5	64QAM	12	13	22.44	22.49	22.43			
5	64QAM	25	0	22.48	23.71	22.80			
5	256QAM	1	0	23.74	23.74	23.64			
5	256QAM	1	12	23.62	23.77	23.74			
5	256QAM	1	24	23.53	23.82	23.42			
5	256QAM	1	24	23.58	23.86	23.59			
5	256QAM	12	7	23.56	23.85	23.42			
5	256QAM	12	13	23.54	23.84	23.45			

Band 41 Ant2														
RW [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 limit (dBm)	MPR (dB)			
Channel				39792	40185	40620	41055	41490	41925					
Frequency (MHz)				39792	40185	40620	41055	41490	41925					
20	QPSK	1	0	22.43	22.55	22.44	22.59	22.58	22.58	23.4	0			
20	QPSK	1	40	22.35	22.43	22.49	22.45	22.42	22.42					
20	QPSK	1	80	22.48	22.43	22.54	22.41	22.48	22.48					
20	QPSK	50	0	21.49	21.60	21.64	21.55	21.50	21.50					
20	QPSK	50	24	21.46	21.42	21.55	21.48	21.45	21.45	23	0.4			
20	QPSK	50	48	21.50	21.52	21.61	21.48	21.56	21.56					
20	16QAM	1	0	21.51	21.53	21.58	21.51	21.49	21.49					
20	16QAM	1	40	21.41	21.42	21.51	21.36	21.38	21.38					
20	16QAM	1	80	21.38	21.32	21.45	21.39	21.33	21.33	23	0.4			
20	16QAM	50	0	20.46	20.50	20.64	20.59	20.52	20.52					
20	16QAM	50	24	20.47	20.39	20.53	20.46	20.41	20.41					
20	16QAM	50	50	20.47	20.52	20.58	20.53	20.54	20.54					
20	16QAM	100	0	20.52	20.46	20.60	20.54	20.48	20.48	22	1.4			
20	16QAM	1	0	20.52	20.51	20.63	20.45	20.52	20.52					
20	16QAM	1	40	20.49	20.50	20.61	20.58	20.47	20.47					
20	16QAM	1	80	20.49	20.51	20.54	20.42	20.41	20.41					
20	16QAM	50	0	19.43	19.40	19.54	19.40	19.48	19.48	21	2.4			
20	16QAM	50	24	19.36	19.43	19.47	19.35	19.34	19.34					
20	16QAM	50	50	19.40	19.41	19.49	19.42	19.40	19.40					
20	16QAM	100	0	19.49	19.48	19.62	19.52	19.49	19.49					
20	256QAM	1	0	17.47	17.54	17.60	17.52	17.54	17.54	19	4.4			
20	256QAM	1	40	17.41	17.41	17.53	17.42	17.48	17.48					
20	256QAM	1	80	17.35	17.40	17.48	17.37	17.36	17.36					
20	256QAM	50	0	17.53	17.49	17.56	17.50	17.48	17.48					
20	256QAM	50	24	17.39	17.40	17.44	17.36	17.31	17.31	19	4.4			
20	256QAM	50	50	17.38	17.35	17.50	17.43	17.41	17.41					
20	256QAM	100	0	17.68	17.65	17.70	17.60	17.58	17.58					
20	256QAM	100	0	17.68	17.65	17.70	17.60	17.58	17.58					
Channel				39792	40173	40620	41096	41515	41915					
Frequency (MHz)				39792	40173	40620	41096	41515	41915					
16	QPSK	1	0	22.31	22.43	22.53	22.73	22.52	22.52	23	0			
16	QPSK	1	37	22.22	22.39	22.36	22.33	22.37	22.37					
16	QPSK	1	74	22.41	22.37	22.42	22.34	22.44	22.44					
16	QPSK	36	0	21.42	21.67	21.56	21.41	21.45	21.45					
16	QPSK	36	20	21.39	21.27	21.48	21.34	21.40	21.40	23	0.4			
16	QPSK	36	40	21.43	21.43	21.48	21.38	21.42	21.42					
16	QPSK	75	0	21.37	21.60	21.46	21.37	21.47	21.47					
16	16QAM	1	0	21.41	21.48	21.52	21.48	21.36	21.36					
16	16QAM	1	37	21.31	21.30	21.39	21.34	21.27	21.27	23	0.4			
16	16QAM	1	74	21.25	21.26	21.37	21.34	21.27	21.27					
16	16QAM	36	0	20.42	20.42	20.60	20.44	20.47	20.47					
16	16QAM	36	20	20.44	20.34	20.30	20.42	20.38	20.38					
16	16QAM	36	39	20.38	20.39	20.45	20.43	20.48	20.48	22	1.4			
16	16QAM	75	0	20.48	20.30	20.50	20.46	20.34	20.34					
16	16QAM	1	0	20.41	20.42	20.59	20.45	20.38	20.38					
16	16QAM	1	37	20.46	20.45	20.53	20.48	20.37	20.37					
16	16QAM	1	74	20.43	20.46	20.47	20.37	20.37	20.37	22	1.4			
16	16QAM	36	0	19.34	19.38	19.47	19.35	19.44	19.44					
16	16QAM	36	20	19.24	19.39	19.41	19.26	19.22	19.22					
16	16QAM	36	39	19.38	19.38	19.35	19.35	19.35	19.35					
16	16QAM	75	0	19.45	19.44	19.55	19.45	19.35	19.35	21	2.4			
16	256QAM	1	0	17.34	17.43	17.45	17.48	17.41	17.41					
16	256QAM	1	37	17.29	17.30	17.42	17.33	17.29	17.29					
16	256QAM	1	74	17.30	17.30	17.42	17.33	17.29	17.29					
16	256QAM	36	0	17.43	17.38	17.43	17.45	17.33	17.33	19	4.4			
16	256QAM	36	20	17.43	17.31	17.38	17.30	17.22	17.22					
16	256QAM	36	39	17.27	17.21	17.36	17.31	17.34	17.34					
16	256QAM	75	0	17.56	17.50	17.56	17.42	17.24	17.24					
Channel				39792	40160	40620	41096	41506	41916					
Frequency (MHz)				39792	40160	40620	41096	41506	41916					
16	QPSK	1	0	22.27	22.46	22.50	22.52	22.52	22.52	23.0	0			
16	QPSK	1	25	22.29	22.31	22.42	22.30	22.39	22.39					
16	QPSK	1	49	22.40	22.33	22.48	22.32	22.44	22.44					
16	QPSK	35	0	21.45	21.46	21.54	21.42	21.41	21.41					
16	QPSK	35	12	21.44	21.28	21.43	21.41	21.42	21.42	23	0.4			
16	QPSK	35	25	21.43	21.46	21.51	21.44	21.45	21.45					
16	QPSK	50	0	21.40	21.44	21.49	21.45	21.44	21.44					
16	16QAM	1	0	21.37	21.44	21.47	21.38	21.42	21.42					
16	16QAM	1	25	21.38	21.35	21.46	21.30	21.26	21.26	23	0.4			
16	16QAM	1	49	21.31	21.21	21.33	21.33	21.39	21.39					
16	16QAM	25	0	20.40	20.40	20.52	20.55	20.44	20.44					
16	16QAM	25	14	20.39	20.26	20.45	20.36	20.28	20.28					
16	16QAM	50	0	20.45	20.43	20.51	20.50	20.45	20.45	22	1.4			
16	16QAM	50	25	20.40	20.43	20.51	20.50	20.45	20.45					
16	16QAM	1	0	20.43	20.44	20.48	20.47	20.39	20.39					
16	16QAM	1	49	20.40	20.38	20.40	20.37	20.27	20.27					
16	16QAM	25	0	19.29	19.29	19.48	19.33	19.23	19.23	21	2.4			
16	16QAM	25	12	19.31	19.38	19.34	19.23	19.29	19.29					
16	16QAM	25	25	19.26	19.27	19.45	19.33	19.36	19.36					
16	16QAM	50	0	19.46	19.34	19.54	19.39	19.37	19.37					
16	256QAM	1	0	17.43	17.41	17.47	17.47	17.47	17.43	19	4.4			
16	256QAM	1	25	17.26	17.31	17.40	17.30	17.41	17.41					
16	256QAM	1	49	17.28	17.27	17.34	17.29	17.28	17.28					
16	256QAM	25	0	17.43	17.34	17.53	17.47	17.33	17.33					
16	256QAM	25	0	17.52	17.39	17.50	17.39	17.23	17.23	19	4.4			
16	256QAM	25	25	17.51	17.24	17.43	17.31	17.23	17.23					
16	256QAM	50	0	17.51	17.45	17.51	17.45	17.49	17.49					
Channel				39792	40148	40620	41095	41495	41915					
Frequency (MHz)				39792	40148	40620	41095	41495	41915					
5	QPSK	1	0	22.35	22.45	22.54	22.54	22.48	22.48	23.0	0			
5	QPSK	1	12	22.21	22.33	22.37	22.37	22.27	22.27					
5	QPSK	1	24	22.33	22.28	22.48	22.28	22.36	22.36					
5	QPSK	12	0	21.36	21.63	21.58	21.43	21.46	21.46					
5	QPSK	12	7	21.41	21.38	21.49	21.39	21.34	21.34	23	0.4			
5	QPSK	12	13	21.36	21.49	21.50	21.43	21.49	21.49					
5	QPSK	25	0	21.48	21.42	21.49	21.43	21.44	21.44	23	0.4			
5	QPSK	25	0	21.48	21.42	21.49	21.43	21.44	21.44					
5	16QAM	1	0	21.39	21.49	21.45	21.45	21.46	21.46	23	0.4			
5	16QAM	1	0	21.39	21.49	21.45	21.45	21.46	21.46					
5	16QAM	1	24	21.36	21.18	21.38	21.31	21.27	21.27	23	0.4			
5	16QAM	1	24	21.36	21.18	21.38	21.31	21.27	21.27					
5	16QAM	12	0	20.37	20.36	20.46	20.46	20.46	20.46	23	1.4			
5	16QAM	12	0	20.37	20.36	20.46	20.46	20.46	20.46					
5	16QAM	12	13	20.40	20.30	20.40	20.38	20.33	20.33	22	1.4			
5	16QAM	12	13	20.40	20.30	20.40	20.38	20.33	20.33					
5	16QAM	12	13	20.40	20.43	20.55	20.42	20.40	20.40	22	1.4			
5	16QAM	12	13	20.40	20.43	20.55	20.42	20.40	20.40					
5	16QAM	1	0	20.40	20.43	20.55	20.42	20.40	20.40	21	2.4			
5	16QAM	1	0	20.40	20.43	20.55	20.42	20.40	20.40					
5	16QAM	1	12	20.41	20.44	20.57	20.48	20.36	20.36	21	2.4			
5	16QAM	1	12	20.41	20.44	20.57	20.48	20.36	20.36					
5	16QAM	1	24	20.37	20.42	20.54	20.47	20.34	20.34	21	2.4			
5	16QAM	1	24	20.37	20.42	20.54	20.47	20.34	20.34					
5	256QAM	1	0	17.32	17.28	17.39	17.38	17.37	17.37	19	4.4			
5	256QAM	1	12	17.27	17.20	17.43	17.22	17.28	17.28					
5	256QAM	1	24	17.48	17.40	17.48	17.36	17.41	17.41					
5	256QAM	12	7	17.28	17.26	17.48	17.32	17.21	17.21					
5	256QAM	12	13	17.27	17.27	17.38	17.31	17.36	17.36	19	4.4			
5	256QAM	12	13	17.26	17.47	17.41	17.41	17.41	17.41					



Band 42 FCC Part27Q Ant3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)			
Channel				42190	42590	42990					
Frequency (MHz)											
20	QPSK	1	0	20.91	21.15	21.10	21.5	0			
20	QPSK	1	49	20.96	21.11	21.04					
20	QPSK	1	98	20.98	21.03	20.91					
20	QPSK	50	0	19.09	19.15	19.07	20.5	1			
20	QPSK	50	24	19.03	19.07	18.96					
20	QPSK	50	50	19.01	19.03	18.99					
20	HQAM	1	0	19.09	19.05	19.05	20.5	1			
20	HQAM	1	49	19.04	19.07	18.94					
20	HQAM	1	99	20.04	20.10	19.98					
20	HQAM	50	0	17.92	18.07	17.93	19.5	2			
20	HQAM	50	24	18.11	18.13	18.07					
20	HQAM	50	50	17.95	18.02	17.87					
20	HQAM	100	0	18.03	18.06	18.03	19.5	2			
20	HQAM	1	0	19.13	19.15	19.05					
20	HQAM	1	49	18.97	19.11	18.99					
20	HQAM	1	99	19.03	19.07	18.98	18.5	3			
20	HQAM	50	24	17.00	17.05	17.02					
20	HQAM	50	50	18.84	18.97	18.88					
20	HQAM	100	0	18.97	17.02	18.88	20.5	1			
20	25SQAM	1	0	19.03	19.10	19.07					
20	25SQAM	1	49	19.01	19.12	19.06					
20	25SQAM	1	99	19.51	19.63	19.49	20.5	1			
20	25SQAM	50	0	19.11	19.17	19.07					
20	25SQAM	50	24	19.06	19.48	19.61					
20	25SQAM	50	50	19.61	19.70	19.68	20.5	1			
20	25SQAM	100	0	19.62	19.70	19.74					
Channel				42190	42590	42910					
Frequency (MHz)											
15	QPSK	1	0	20.82	21.13	21.05	21.5	0			
15	QPSK	1	47	20.82	21.04	20.98					
15	QPSK	1	74	20.91	20.96	20.83					
15	QPSK	36	0	19.05	19.01	19.01	20.5	1			
15	QPSK	36	20	18.92	18.97	18.89					
15	QPSK	36	36	19.07	18.94	18.94					
15	QPSK	75	0	18.87	19.02	18.88	20.5	1			
15	HQAM	1	0	19.87	19.85	19.85					
15	HQAM	1	37	19.73	19.87	19.77					
15	HQAM	1	74	19.98	20.02	19.85	19.5	2			
15	HQAM	36	0	17.87	18.01	17.84					
15	HQAM	36	20	18.02	18.04	17.92					
15	HQAM	36	36	17.82	17.98	17.73	19.5	2			
15	HQAM	75	0	17.82	17.87	17.88					
15	HQAM	1	0	19.07	19.03	19.03					
15	HQAM	1	27	18.98	19.09	18.89	19.5	2			
15	HQAM	1	74	18.96	19.05	18.98					
15	HQAM	36	0	18.88	18.84	18.97					
15	HQAM	36	20	18.69	18.59	18.78	18.5	3			
15	HQAM	36	36	18.75	18.65	18.75					
15	HQAM	75	0	18.95	18.98	18.92					
15	25SQAM	1	0	19.46	19.67	19.52	20.5	1			
15	25SQAM	1	37	19.75	19.48	19.48					
15	25SQAM	1	74	19.42	19.57	19.48					
15	25SQAM	36	0	19.61	19.73	19.54	20.5	1			
15	25SQAM	36	20	19.51	19.59	19.59					
15	25SQAM	36	36	19.59	19.68	19.59					
15	25SQAM	75	0	19.62	19.65	19.60					
Channel				42190	42590	42910					
Frequency (MHz)											
10	QPSK	1	0	20.48	21.04	21.01	21.5	0			
10	QPSK	1	25	20.86	20.97	20.96					
10	QPSK	1	49	20.83	20.99	20.83					
10	QPSK	25	0	18.96	19.02	18.94	20.5	1			
10	QPSK	25	12	18.90	18.97	18.87					
10	QPSK	25	25	18.83	18.92	18.79					
10	QPSK	50	0	18.94	19.01	18.92	20.5	1			
10	HQAM	1	0	19.91	20.00	19.89					
10	HQAM	1	25	19.78	19.84	19.77					
10	HQAM	1	49	19.97	20.05	19.86	19.5	2			
10	HQAM	25	0	17.88	18.02	17.89					
10	HQAM	25	12	17.88	18.02	17.84					
10	HQAM	25	25	17.82	17.97	17.78	19.5	2			
10	HQAM	50	0	17.96	17.88	18.01					
10	HQAM	1	0	19.03	19.11	18.94	19.5	2			
10	HQAM	1	25	18.91	18.99	18.91					
10	HQAM	1	49	19.02	19.05	18.87					
10	HQAM	25	0	18.88	17.03	18.81	18.5	3			
10	HQAM	25	12	18.75	18.88	18.72					
10	HQAM	25	25	18.64	17.00	17.02					
10	HQAM	50	0	18.90	18.90	18.77	20.5	1			
10	25SQAM	1	0	19.52	19.59	19.42					
10	25SQAM	1	25	19.34	19.46	19.39					
10	25SQAM	1	49	19.45	19.54	19.54	20.5	1			
10	25SQAM	25	0	19.58	19.67	19.48					
10	25SQAM	25	12	19.47	19.55	19.44					
10	25SQAM	25	25	19.45	19.55	19.55					
10	25SQAM	50	0	19.54	19.67	19.69					
Channel				42115 <th>42590</th> <th>43065</th> <th colspan="3" rowspan="2"></th>	42590	43065					
Frequency (MHz)											
5	QPSK	1	0	20.86	21.12	21.05	21.5	0			
5	QPSK	1	12	20.90	21.05	20.99					
5	QPSK	1	24	20.98	20.99	20.85					
5	QPSK	12	0	19.03	19.09	19.00	20.5	1			
5	QPSK	12	7	18.97	19.07	18.90					
5	QPSK	12	13	18.85	18.98	18.83					
5	QPSK	25	0	18.98	19.00	18.99	20.5	1			
5	HQAM	1	0	19.94	20.00	19.89					
5	HQAM	1	12	19.78	19.80	19.77					
5	HQAM	1	24	19.98	20.05	19.91	19.5	2			
5	HQAM	12	0	17.86	18.01	17.87					
5	HQAM	12	7	18.05	18.06	18.00					
5	HQAM	12	13	17.88	17.97	17.82	19.5	2			
5	HQAM	25	0	17.87	18.00	17.97					
5	HQAM	1	0	19.07	19.11	19.03					
5	HQAM	1	12	18.92	19.00	18.94	18.5	3			
5	HQAM	1	24	18.98	19.02	18.92					
5	HQAM	12	7	18.04	17.07	18.00					
5	HQAM	12	13	18.96	17.03	17.01	20.5	1			
5	HQAM	25	0	18.93	18.98	18.92					
5	25SQAM	1	0	19.49	19.64	19.51					
5	25SQAM	1	12	19.38	19.48	19.41	20.5	1			
5	25SQAM	1	24	19.45	19.57	19.54					
5	25SQAM	12	0	19.64	19.72	19.61					
5	25SQAM	12	7	19.51	19.62	19.54	20.5	1			
5	25SQAM	12	13	19.54	19.63	19.61					
5	25SQAM	25	0	19.58	19.69	19.67					

Band 42 FCC Part96 Ant3												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)				
Channel				43190	43340	43490						
Frequency (MHz)												
20	QPSK	1	0	20.84	21.03	21.01	21.5	0				
20	QPSK	1	49	20.88	21.03	20.96						
20	QPSK	1	99	20.88	21.02	20.93						
20	QPSK	50	0	18.97	18.97	18.91	20.5	1				
20	QPSK	50	49	18.97	18.97	18.79						
20	QPSK	100	0	18.90	18.90	18.83						
20	16QAM	1	0	19.92	19.96	19.86	20.5	1				
20	16QAM	1	49	19.93	19.93	19.73						
20	16QAM	1	99	19.89	19.96	19.86						
20	16QAM	50	0	17.87	17.86	17.70	20.5	2				
20	16QAM	50	49	17.87	17.87	17.69						
20	16QAM	100	0	17.68	17.66	17.50						
20	64QAM	1	0	18.93	18.93	18.88	19.5	2				
20	64QAM	1	49	18.93	18.93	18.68						
20	64QAM	50	0	16.90	16.94	16.90						
20	64QAM	50	24	16.79	16.82	16.72	18.5	3				
20	64QAM	100	0	16.79	17.00	16.95						
20	64QAM	100	0	16.82	16.86	16.80						
20	256QAM	1	0	19.49	19.61	19.49	20.5	1				
20	256QAM	1	49	19.49	19.62	19.37						
20	256QAM	1	99	19.43	19.49	19.48						
20	256QAM	50	0	19.14	19.14	19.02	20.5	1				
20	256QAM	50	24	19.11	19.15	19.41						
20	256QAM	50	24	19.11	19.59	19.58						
Channel				43155 <th>43340</th> <th>43515</th> <th colspan="3"></th>	43340	43515						
Frequency (MHz)												
15	QPSK	1	0	20.76	21.02	20.93	21.5	0				
15	QPSK	1	37	20.72	21.02	20.90						
15	QPSK	1	74	20.69	20.86	20.74						
15	QPSK	36	0	18.94	18.94	18.83	20.5	1				
15	QPSK	36	20	18.79	18.87	18.79						
15	QPSK	72	0	18.83	18.83	18.73						
15	QPSK	72	0	18.77	18.87	18.78	20.5	1				
15	16QAM	1	0	19.79	19.89	19.79						
15	16QAM	1	37	19.79	19.89	19.65						
15	16QAM	1	74	19.88	19.87	19.79	19.5	2				
15	16QAM	36	0	17.78	17.87	17.73						
15	16QAM	36	20	17.77	17.86	17.80						
15	16QAM	36	39	17.70	17.83	17.60	18.5	2				
15	16QAM	72	0	17.63	17.63	17.53						
15	16QAM	1	0	18.97	18.94	18.94						
15	64QAM	1	37	18.76	18.89	18.74	19.5	2				
15	64QAM	1	74	18.76	18.89	18.77						
15	64QAM	36	0	16.73	16.83	16.91						
15	64QAM	36	20	16.84	16.84	16.71	18.5	3				
15	64QAM	72	0	17.65	17.65	17.62						
15	64QAM	75	0	16.75	16.76	16.61						
15	256QAM	1	0	19.49	19.51	19.49	20.5	1				
15	256QAM	1	37	19.24	19.35	19.27						
15	256QAM	1	74	19.20	19.35	19.28						
15	256QAM	36	0	19.56	19.56	19.56	20.5	1				
15	256QAM	36	20	19.42	19.50	19.44						
15	256QAM	36	39	19.38	19.56	19.50						
15	256QAM	72	0	19.51	19.57	19.51	20.5	1				
Channel				43140	43340	43560						
Frequency (MHz)												
10	QPSK	1	0	20.76	21.02	20.93	21.5	0				
10	QPSK	1	25	20.76	20.80	20.89						
10	QPSK	1	50	20.76	20.80	20.74						
10	QPSK	24	0	18.83	18.83	18.89	20.5	1				
10	QPSK	24	12	18.87	18.82	18.79						
10	QPSK	24	25	18.82	18.82	18.73						
10	QPSK	50	0	18.82	18.83	18.82	20.5	1				
10	16QAM	1	0	19.85	19.88	19.73						
10	16QAM	1	50	19.79	19.77	19.69						
10	16QAM	1	49	19.83	20.09	19.74	20.5	1				
10	16QAM	24	0	17.77	17.86	17.77						
10	16QAM	24	12	17.77	17.77	17.68						
10	16QAM	25	0	17.76	17.86	17.72	19.5	2				
10	16QAM	50	0	17.83	17.83	17.60						
10	64QAM	1	0	18.97	19.03	18.89						
10	64QAM	1	25	18.84	18.88	18.81	19.5	2				
10	64QAM	1	50	18.88	18.88	18.73						
10	64QAM	25	0	16.72	16.86	16.82						
10	64QAM	25	12	16.88	16.77	16.81	18.5	3				
10	64QAM	25	12	16.88	16.88	16.82						
10	64QAM	50	0	16.80	16.75	16.72						
10	256QAM	1	0	19.44	19.44	19.36	20.5	1				
10	256QAM	1	25	19.21	19.33	19.20						
10	256QAM	1	49	19.32	19.39	19.45						
10	256QAM	25	0	19.39	19.45	19.48	20.5	1				
10	256QAM	25	12	19.38	19.41	19.41						
10	256QAM	25	12	19.34	19.45	19.48						
10	256QAM	50	0	19.34	19.45	19.48	20.5	1				
Channel				43115 <th>43340</th> <th>43560</th> <th colspan="3"></th>	43340	43560						
Frequency (MHz)												
5	QPSK	1	0	20.76	21.02	20.93	21.5	0				
5	QPSK	1	12	20.80	20.88	20.81						
5	QPSK	1	25	20.76	20.80	20.77						
5	QPSK	12	0	18.94	19.00	18.88	20.5	1				
5	QPSK	12	7	18.90	18.87	18.79						
5	QPSK	12	13	18.88	18.88	18.69						
5	QPSK	25	0	18.88	18.94	18.79	20.5	1				
5	16QAM	1	0	19.88	19.89	19.81						
5	16QAM	1	12	19.87	19.77	19.83						
5	16QAM	1	24	19.92	19.92	19.83	20.5	1				
5	16QAM	12	7	17.76	17.76	17.77						
5	16QAM	12	7	17.97	17.99	17.92						
5	16QAM	12	13	17.76	17.82	17.71	19.5	2				
5	16QAM	25	0	17.77	17.88	17.68						
5	64QAM	1	0	19.01	18.98	18.97						
5	64QAM	1	12	18.82	18.82	18.80	19.5	2				
5	64QAM	12	7	18.82	18.88	18.79						
5	64QAM	12	13	18.81	18.86	18.83						
5	64QAM	25	0	16.82	16.87	16.77	18.5	3				
5	64QAM	25	12	16.82	16.82	16.82						
5	256QAM	1	0	19.32	19.32	19.44						
5	256QAM	1	12	19.23	19.34	19.27	20.5	1				
5	256QAM	1	24	19.35	19.43	19.48						
5	256QAM	12	7	19.47	19.47	19.47						
5	256QAM	12	7	19.40	19.55	19.49	20.5	1				
5	256QAM	12	13	19.45	19.49	19.47						
5	256QAM	25	0	19.44	19.54	19.54						



Band 43 for FCC use Ant3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	20.73	21.50	20.77	21.5	0			
20	QPSK	1	49	20.71	20.80	20.74					
20	QPSK	1	98	20.20	20.60	20.77					
20	QPSK	50	0	18.86	19.50	18.78	20.5	1			
20	QPSK	50	24	18.81	18.84	18.74					
20	QPSK	50	50	18.70	18.78	18.78					
20	QPSK	100	0	18.75	18.84	18.76	20.5	1			
20	HQAM	1	0	19.84	19.87	19.72					
20	HQAM	1	49	19.79	19.77	19.82					
20	HQAM	1	99	19.75	19.83	19.78	19.5	2			
20	HQAM	50	24	17.86	17.80	17.84					
20	HQAM	50	50	17.81	17.78	17.81					
20	HQAM	50	50	17.87	17.78	17.83	19.5	2			
20	HQAM	100	0	17.74	17.87	17.77					
20	HQAM	1	0	19.85	19.85	19.81					
20	HQAM	1	49	18.83	18.82	18.83	18.5	3			
20	HQAM	1	99	18.80	18.90	18.82					
20	HQAM	50	24	16.85	16.85	16.81					
20	HQAM	50	50	16.89	16.82	16.74	20.5	1			
20	25QAM	1	0	19.45	19.52	19.45					
20	25QAM	1	49	19.46	19.47	19.49					
20	25QAM	1	99	19.46	19.49	19.51	20.5	1			
20	25QAM	50	24	19.50	19.50	19.50					
20	25QAM	50	50	19.50	19.49	19.52					
20	25QAM	100	0	19.49	19.49	19.50	20.5	1			
Channel											
3665 3665 3665											
15	QPSK	1	0	20.73	20.92	20.68	21.5	0			
15	QPSK	1	47	20.68	20.70	20.63					
15	QPSK	1	74	20.71	20.71	20.68					
15	QPSK	36	0	18.79	18.82	18.68	20.5	1			
15	QPSK	36	20	18.73	18.75	18.69					
15	QPSK	36	36	18.74	18.74	18.74					
15	QPSK	75	0	18.71	18.79	18.74	20.5	1			
15	HQAM	1	0	19.77	19.77	19.64					
15	HQAM	1	37	19.68	19.74	19.74					
15	HQAM	1	74	19.66	19.71	19.70	19.5	2			
15	HQAM	36	0	17.74	17.78	17.72					
15	HQAM	36	20	17.70	17.71	17.70					
15	HQAM	36	36	17.81	17.75	17.79	19.5	2			
15	HQAM	75	0	17.60	17.76	17.75					
15	HQAM	1	0	18.79	18.81	18.81					
15	HQAM	1	37	18.69	18.79	18.72	18.5	3			
15	HQAM	1	74	18.69	18.75	18.74					
15	HQAM	36	0	16.79	16.82	16.75					
15	HQAM	36	20	16.89	16.78	16.73	20.5	1			
15	HQAM	36	36	16.85	16.85	16.85					
15	HQAM	75	0	16.85	16.79	16.85					
15	25QAM	1	0	19.36	19.48	19.37	20.5	1			
15	25QAM	1	37	19.41	19.35	19.38					
15	25QAM	1	74	19.51	19.41	19.48					
15	25QAM	36	0	19.44	19.57	19.49	20.5	1			
15	25QAM	36	20	19.53	19.49	19.47					
15	25QAM	36	36	19.44	19.46	19.45					
15	25QAM	75	0	19.42	19.40	19.34	20.5	1			
Channel											
3665 3665 3665											
10	QPSK	1	0	20.79	20.90	20.72	21.5	0			
10	QPSK	1	25	20.58	20.77	20.58					
10	QPSK	1	49	20.68	20.78	20.72					
10	QPSK	25	0	18.75	18.86	18.72	20.5	1			
10	QPSK	25	12	18.74	18.73	18.65					
10	QPSK	25	25	18.66	18.73	18.65					
10	QPSK	50	0	18.64	18.77	18.63	20.5	1			
10	HQAM	1	0	19.76	19.83	19.67					
10	HQAM	1	25	19.69	19.83	19.68					
10	HQAM	1	49	19.69	19.80	19.65	19.5	2			
10	HQAM	25	0	17.74	17.77	17.70					
10	HQAM	25	12	17.78	17.67	17.75					
10	HQAM	25	25	17.81	17.72	17.74	19.5	2			
10	HQAM	50	0	17.63	17.77	17.62					
10	HQAM	1	0	18.86	18.83	18.82	18.5	3			
10	HQAM	1	25	18.70	18.84	18.72					
10	HQAM	1	49	18.70	18.81	18.73					
10	HQAM	25	0	16.74	16.80	16.61	20.5	1			
10	HQAM	25	12	16.87	16.77	16.78					
10	HQAM	25	25	16.75	16.71	16.70					
10	HQAM	50	0	16.87	16.87	16.80	20.5	1			
10	25QAM	1	0	19.32	19.51	19.43					
10	25QAM	1	25	19.43	19.41	19.45					
10	25QAM	1	49	19.40	19.36	19.46	20.5	1			
10	25QAM	25	0	19.39	19.52	19.37					
10	25QAM	25	12	19.47	19.40	19.54					
10	25QAM	25	25	19.40	19.52	19.40	20.5	1			
10	25QAM	50	0	19.34	19.45	19.32					
Channel											
3667.5 3668 3669.5											
5	QPSK	1	0	20.79	20.96	20.72	21.5	0			
5	QPSK	1	12	20.55	20.74	20.58					
5	QPSK	1	24	20.74	20.80	20.70					
5	QPSK	12	0	18.78	18.87	18.71	20.5	1			
5	QPSK	12	7	18.75	18.79	18.68					
5	QPSK	12	13	18.64	18.76	18.69					
5	QPSK	25	0	18.69	18.79	18.71	20.5	1			
5	HQAM	1	0	19.79	19.81	19.66					
5	HQAM	1	12	19.74	19.71	19.78					
5	HQAM	1	24	19.69	19.78	19.73	19.5	2			
5	HQAM	12	0	17.81	17.84	17.78					
5	HQAM	12	7	17.78	17.75	17.78					
5	HQAM	12	13	17.80	17.71	17.77	18.5	2			
5	HQAM	25	0	17.67	17.81	17.71					
5	HQAM	1	0	18.82	18.80	18.80					
5	HQAM	1	12	18.76	18.87	18.78	18.5	3			
5	HQAM	1	24	18.76	18.82	18.76					
5	HQAM	12	0	16.75	16.80	16.66					
5	HQAM	12	7	16.85	16.75	16.81	20.5	1			
5	HQAM	12	13	16.79	16.80	16.74					
5	HQAM	25	0	16.84	16.78	16.82					
5	25QAM	1	0	19.40	19.52	19.38	20.5	1			
5	25QAM	1	12	19.41	19.42	19.43					
5	25QAM	1	24	19.41	19.43	19.45					
5	25QAM	12	0	19.43	19.58	19.46	20.5	1			
5	25QAM	12	7	19.52	19.55	19.53					
5	25QAM	12	13	19.45	19.55	19.47					
5	25QAM	25	0	19.43	19.46	19.34	20.5	1			
Channel											
3670.5 3670 3670.5											
5	QPSK	1	0	20.79	20.96	20.72	21.5	0			
5	QPSK	1	12	20.55	20.74	20.58					
5	QPSK	1	24	20.74	20.80	20.70					
5	QPSK	12	0	19.08	19.14	19.10	20.5	1			
5	QPSK	12	7	19.03	19.06	18.98					
5	QPSK	12	13	19.04	19.11	19.06					
5	QPSK	25	0	18.97	19.06	18.94	20.5	1			
5	HQAM	1	0	19.84	19.89	19.86					
5	HQAM	1	12	19.78	19.88	19.76					
5	HQAM	1	24	19.85	19.86	19.75	19.5	2			
5	HQAM	12	0	17.80	17.81	17.77					
5	HQAM	12	7	17.79	17.75	17.76					
5	HQAM	12	13	17.84	17.87	17.89	18.5	2			
5	HQAM	25	0	18.07	18.11	18.04					
5	HQAM	1	0	18.86	18.87	18.85					

Band 41 Ant4												
RW [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 test (dBm)	MPR (dB)	
Channel												
Frequency (MHz)												
20	QPSK	1	0	39790	40188	40620	41066	41490	41915			
20	QPSK	1	5	18.02	19.13	19.23	19.23	19.23	19.23			
20	QPSK	1	49	18.89	19.06	19.13	18.98	19.07	19.15	20	0	
20	QPSK	1	80	18.87	18.90	19.01	18.96	18.93	19.00			
20	QPSK	50	0	17.97	18.10	18.15	18.02	18.10	18.15			
20	QPSK	50	24	17.90	17.97	18.06	17.99	17.94	18.01	19	1	
20	QPSK	100	0	17.96	18.10	18.15	18.05	18.05	18.15			
20	QPSK	100	0	17.84	18.01	18.09	17.94	17.94	18.03			
20	16QAM	1	0	17.94	18.06	18.18	18.12	18.06	18.15	19	1	
20	16QAM	1	40	17.82	17.95	18.03	17.98	17.94	18.01			
20	16QAM	1	99	17.82	17.96	18.10	17.98	18.03	18.03			
20	16QAM	50	0	18.06	18.06	17.87	18.06	18.06	18.06			
20	16QAM	50	24	18.74	18.84	18.95	18.84	18.89	18.89	18	2	
20	16QAM	50	50	18.70	18.76	18.89	18.78	18.80	18.80			
20	16QAM	100	0	18.01	17.97	17.82	17.87	17.82	17.87			
20	16QAM	100	0	18.08	17.95	17.19	17.15	17.05	17.05			
20	16QAM	1	49	18.85	18.86	18.84	18.87	18.85	18.85	18	2	
20	16QAM	1	99	18.51	18.56	17.02	18.53	18.59	18.59			
20	16QAM	50	0	18.90	18.97	18.05	18.98	18.99	18.99			
20	16QAM	50	24	18.71	18.85	18.92	18.83	18.84	18.84	17	3	
20	16QAM	50	50	18.92	18.99	18.03	18.98	18.99	18.99			
20	16QAM	100	0	18.98	18.98	18.11	18.90	18.99	18.99			
20	256QAM	1	0	13.77	13.84	13.88	13.87	13.88	13.88			
20	256QAM	1	40	13.83	14.10	14.12	14.01	14.05	14.05	15	5	
20	256QAM	1	99	13.88	13.96	14.02	13.94	13.89	13.89			
20	256QAM	50	0	13.81	13.88	13.88	13.84	13.88	13.88			
20	256QAM	50	24	13.73	13.92	13.95	13.80	13.82	13.82	15	5	
20	256QAM	50	50	13.79	13.95	14.00	13.92	13.91	13.91			
20	256QAM	100	0	13.82	14.04	14.04	14.04	14.04	14.04			
Channel												
Frequency (MHz)												
18	QPSK	1	0	39790	40188	40620	41066	41490	41915			
18	QPSK	1	37	18.77	18.98	19.08	18.91	18.98	19.00	20	0	
18	QPSK	1	74	18.81	18.78	18.96	18.98	18.84	18.84			
18	QPSK	36	0	17.83	17.86	18.08	17.78	18.05	18.05			
18	QPSK	36	20	17.78	17.90	17.93	17.84	17.80	17.80	19	1	
18	QPSK	75	0	17.76	17.97	17.98	17.85	17.83	17.83			
18	16QAM	1	0	17.89	18.03	18.14	17.99	17.97	17.97			
18	16QAM	1	37	17.89	17.98	18.09	17.90	17.89	17.89	19	1	
18	16QAM	1	74	17.85	17.90	18.03	17.94	17.92	17.92			
18	16QAM	36	0	18.73	18.83	17.02	18.66	18.85	18.85			
18	16QAM	36	20	18.85	18.92	18.82	18.73	18.81	18.81	18	2	
18	16QAM	36	39	18.58	18.64	18.80	18.72	18.68	18.68			
18	16QAM	75	0	18.78	17.02	17.09	18.66	18.93	18.93			
18	16QAM	75	0	18.92	18.91	17.06	17.11	18.96	18.96	18	2	
18	16QAM	1	37	18.68	18.76	18.84	18.79	18.75	18.75			
18	16QAM	1	74	18.77	18.91	18.97	18.90	18.95	18.95			
18	16QAM	36	0	18.81	18.85	18.91	18.88	18.85	18.85	17	3	
18	16QAM	36	20	18.99	18.76	18.80	18.71	18.74	18.74			
18	16QAM	36	39	18.88	18.88	18.95	18.88	18.91	18.91			
18	16QAM	75	0	18.91	18.97	18.00	18.90	18.95	18.95			
18	256QAM	1	0	13.73	13.77	13.87	13.78	13.80	13.80	15	5	
18	256QAM	1	40	13.70	13.80	13.85	13.69	13.75	13.75			
18	256QAM	1	99	13.74	13.82	13.88	13.79	13.83	13.83			
18	256QAM	50	0	13.79	13.82	13.85	13.79	13.86	13.86			
18	256QAM	50	24	13.79	13.90	14.03	13.83	13.89	13.89			
Channel												
Frequency (MHz)												
5	QPSK	1	0	39790	40188	40620	41066	41490	41915			
5	QPSK	1	0	18.85	18.95	19.21	18.95	19.18	19.18	20	0	
5	QPSK	1	12	18.83	18.93	18.99	18.95	18.99	18.99			
5	QPSK	1	24	18.78	18.79	18.96	18.84	18.93	18.93			
5	QPSK	12	0	17.86	17.96	18.04	17.89	17.92	17.92	19	1	
5	QPSK	12	7	17.85	17.85	18.01	17.83	17.84	17.84			
5	QPSK	12	13	17.90	17.80	17.96	17.86	17.93	17.93			
5	QPSK	25	0	17.74	17.90	17.96	17.86	17.84	17.84			
5	16QAM	1	0	17.87	17.99	18.05	18.05	17.94	17.94			
5	16QAM	1	12	17.89	17.84	17.97	17.90	17.87	17.87	19	1	
5	16QAM	1	24	17.82	17.89	17.97	17.86	17.88	17.88			
5	16QAM	12	0	18.74	18.89	18.97	18.91	18.89	18.89	18	2	
5	16QAM	12	7	18.62	18.74	18.88	18.79	18.80	18.80			
5	16QAM	12	13	18.56	18.71	18.81	18.65	18.73	18.73			
5	16QAM	25	0	18.87	17.00	17.07	17.02	18.88	18.88			
5	16QAM	1	0	18.90	18.98	17.09	17.07	18.94	18.94	18	2	
5	16QAM	1	12	18.71	18.74	18.85	18.82	18.72	18.72			
5	16QAM	1	24	18.77	18.87	18.96	18.88	18.91	18.91			
5	16QAM	12	0	18.77	18.83	18.80	18.89	18.87	18.87			
5	16QAM	12	7	18.83	18.78	18.82	18.79	18.72	18.72	17	3	
5	16QAM	12	13	18.77	18.85	18.99	18.80	18.89	18.89			
5	16QAM	25	0	18.92	18.98	18.03	18.96	18.98	18.98			
5	256QAM	1	0	13.72	13.80	13.84	13.78	13.82	13.82			
5	256QAM	1	24	13.83	13.95	14.04	13.86	13.93	13.93			
5	256QAM	1	49	13.84	13.94	13.97	13.83	13.90	13.90			
5	256QAM	13	0	13.72	13.89	13.93	13.81	13.87	13.87			
5	256QAM	12	7	13.87	13.82	13.81	13.77	13.73	13.73	15	5	
5	256QAM	12	13	13.88	13.92	13.96	13.86	13.89	13.89			
5	256QAM	25	0	13.89	14.04	14.00	13.91	14.02	14.02			



Band 42 FCC Part27Q Ant8											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int. (dBm)	MPR (dB)			
Channel				42190	42590	42990					
Frequency (MHz)											
20	QPSK	1	0	19.24	19.51	19.41	20	0			
20	QPSK	1	49	19.46	19.49	19.43					
20	QPSK	1	99	19.42	19.50	19.52					
20	QPSK	50	0	17.53	17.61	17.71					
20	QPSK	50	24	17.40	17.53	17.41	19	1			
20	QPSK	50	50	17.43	17.43	17.43					
20	QPSK	100	0	17.42	17.50	17.47					
20	HQAM	1	0	18.41	18.46	18.32					
20	HQAM	1	49	18.39	18.41	18.40	19	1			
20	HQAM	1	99	18.41	18.32	18.40					
20	HQAM	50	0	18.41	18.51	18.38					
20	HQAM	50	24	18.07	18.40	18.39					
20	HQAM	50	50	18.40	18.40	18.48	18	2			
20	HQAM	100	0	18.38	18.32	18.37					
20	8QAM	1	0	17.41	17.52	17.43					
20	8QAM	1	49	17.59	17.48	17.43					
20	8QAM	1	99	17.37	17.48	17.50	18	2			
20	8QAM	50	0	15.40	15.52	15.48					
20	8QAM	50	24	15.00	15.38	15.43					
20	8QAM	50	50	15.44	15.40	15.42					
20	8QAM	100	0	15.40	15.51	15.37	17	3			
20	25QAM	1	0	18.11	18.13	18.00					
20	25QAM	1	49	18.09	18.07	18.10					
20	25QAM	1	99	18.03	18.03	18.02					
20	25QAM	50	0	17.28	17.40	17.17	19	1			
20	25QAM	50	24	18.13	18.07	18.14					
20	25QAM	50	50	18.17	18.09	18.09					
20	25QAM	100	0	18.12	18.02	18.15					
Channel				42196	42596	42916	Time-up Int. (dBm)				
Frequency (MHz)											
15	QPSK	1	0	19.18	19.51	19.43	20	0			
15	QPSK	1	47	19.36	19.39	19.40					
15	QPSK	1	74	19.37	19.47	19.49					
15	QPSK	36	0	17.49	17.60	17.47					
15	QPSK	36	20	17.33	17.48	17.36	19	1			
15	QPSK	36	47	17.48	17.48	17.48					
15	QPSK	75	0	17.27	17.38	17.42					
15	HQAM	1	0	18.31	18.40	18.29					
15	HQAM	1	47	18.31	18.28	18.27	19	1			
15	HQAM	1	74	18.27	18.29	18.30					
15	HQAM	36	0	16.28	16.45	16.33					
15	HQAM	36	20	16.32	16.33	16.27					
15	HQAM	36	47	16.33	16.42	16.35	18	2			
15	HQAM	75	0	16.33	16.44	16.29					
15	HQAM	1	0	17.28	17.40	17.28					
15	HQAM	1	27	17.38	17.44	17.34					
15	HQAM	1	74	17.34	17.35	17.38	18	2			
15	HQAM	36	0	15.38	15.43	15.45					
15	HQAM	36	20	15.39	15.29	15.29					
15	HQAM	36	47	15.38	15.44	15.25					
15	8QAM	75	0	15.20	15.44	15.25	17	3			
15	25QAM	1	0	18.07	18.01	17.88					
15	25QAM	1	47	18.03	17.85	17.85					
15	25QAM	1	74	17.92	18.00	17.87					
15	25QAM	36	0	17.07	18.17	18.07	19	1			
15	25QAM	36	20	18.04	18.02	18.10					
15	25QAM	36	47	18.04	18.00	18.04					
15	25QAM	75	0	18.03	18.10	18.00					
Channel				42140	42590	42990	Time-up Int. (dBm)				
Frequency (MHz)											
10	QPSK	1	0	19.29	19.40	19.32	20	0			
10	QPSK	1	25	19.42	19.44	19.32					
10	QPSK	1	49	19.29	19.48	19.43					
10	QPSK	36	0	17.48	17.58	17.40					
10	QPSK	25	12	17.31	17.42	17.32	19	1			
10	QPSK	25	25	17.29	17.48	17.34					
10	QPSK	50	0	17.32	17.38	17.28					
10	HQAM	1	0	18.30	18.39	18.21					
10	HQAM	1	25	18.29	18.26	18.28	19	1			
10	HQAM	1	49	18.28	18.38	18.32					
10	HQAM	25	0	16.33	16.44	16.24					
10	HQAM	25	12	16.38	16.31	16.36					
10	HQAM	25	25	16.30	16.35	16.44	18	2			
10	HQAM	50	0	16.41	16.39	16.22					
10	HQAM	1	0	17.23	17.28	17.25					
10	HQAM	1	25	17.28	17.34	17.38					
10	8QAM	1	49	17.26	17.39	17.27	18	2			
10	8QAM	25	0	15.30	15.40	15.40					
10	8QAM	25	12	15.43	15.33	15.37					
10	8QAM	25	25	15.36	15.28	15.28					
10	8QAM	50	0	15.34	15.45	15.25	17	3			
10	25QAM	1	0	18.08	18.02	17.94					
10	25QAM	1	25	18.00	17.96	18.08					
10	25QAM	1	49	17.95	17.98	17.88					
10	25QAM	25	0	17.06	18.12	17.87	19	1			
10	25QAM	25	12	18.03	17.99	18.00					
10	25QAM	25	25	18.04	18.02	17.94					
10	25QAM	50	0	18.08	18.00	18.05					
Channel				42115	42590	42990	Time-up Int. (dBm)				
Frequency (MHz)											
5	QPSK	1	0	19.18	19.54	19.36	20	0			
5	QPSK	1	12	19.40	19.42	19.37					
5	QPSK	1	24	19.36	19.50	19.45					
5	QPSK	12	0	17.48	17.58	17.48					
5	QPSK	12	7	17.54	17.48	17.38	19	1			
5	QPSK	12	13	17.31	17.42	17.37					
5	QPSK	26	0	17.38	17.44	17.41					
5	HQAM	1	0	18.35	18.39	18.27					
5	HQAM	1	12	18.33	18.38	18.35	19	1			
5	HQAM	1	24	18.26	18.20	18.35					
5	HQAM	12	0	16.35	16.40	16.29					
5	HQAM	12	7	16.41	16.34	16.33					
5	HQAM	12	13	16.34	16.40	16.41	18	2			
5	HQAM	25	0	16.41	16.40	16.32					
5	HQAM	1	0	17.35	17.45	17.32					
5	HQAM	1	12	17.43	17.41	17.38					
5	8QAM	1	24	17.30	17.38	17.37	18	2			
5	8QAM	12	0	15.33	15.40	15.43					
5	8QAM	12	7	15.44	15.32	15.37					
5	8QAM	12	13	15.38	15.34	15.35					
5	8QAM	26	0	15.35	15.40	15.30	17	3			
5	25QAM	1	0	18.06	18.08	17.95					
5	25QAM	1	12	18.02	18.00	18.04					
5	25QAM	1	24	17.98	17.98	17.88					
5	25QAM	12	0	18.01	18.14	18.05	19	1			
5	25QAM	12	7	18.07	18.00	18.09					
5	25QAM	12	13	18.12	18.00	18.03					
5	25QAM	26	0	18.05	18.17	18.09					

Band 42 FCC Part96 Ant8												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int. (dBm)	MPR (dB)				
Channel				43190	43540	43890						
Frequency (MHz)												
20	QPSK	1	0	19.10	19.50	19.35	20	0				
20	QPSK	1	49	19.33	19.41	19.34						
20	QPSK	1	99	19.30	19.44	19.35						
20	QPSK	50	0	17.43	17.50	17.44						
20	QPSK	50	24	17.33	17.46	17.36	19	1				
20	QPSK	50	50	17.28	17.45	17.28						
20	QPSK	100	0	17.29	17.38	17.29	19	1				
20	16QAM	1	0	18.32	18.36	18.30						
20	16QAM	1	49	18.34	18.34	18.32						
20	16QAM	1	99	18.28	18.28	18.30						
20	16QAM	50	0	16.29	16.40	16.28	18	2				
20	16QAM	50	24	16.34	16.34	16.28						
20	16QAM	50	50	16.27	16.36	16.24						
20	16QAM	100	0	16.35	16.46	16.27						
20	16QAM	100	0	17.31	17.31	17.28	18	2				
20	16QAM	1	49	17.32	17.39	17.30						
20	16QAM	1	99	17.28	17.32	17.28						
20	16QAM	50	0	15.34	15.42	15.40						
20	16QAM	50	24	15.41	15.27	15.27	17	3				
20	16QAM	50	50	15.32	15.29	15.27						
20	16QAM	100	0	15.35	15.38	15.28						
20	16QAM	1	0	18.02	18.06	17.90						
20	25QAM	1	49	18.04	18.01	17.96	19	1				
20	25QAM	1	99	17.93	17.96	17.87						
20	25QAM	1	0	17.97	17.97	17.84						
20	25QAM	50	24	15.05	15.06	15.04						
20	25QAM	50	50	15.04	15.04	15.04	19	1				
20	25QAM	50	0	16.01	16.01	15.93						
Channel				43165 <th>43515<th>43815</th><th colspan="3"></th></th>	43515 <th>43815</th> <th colspan="3"></th>	43815						
Frequency (MHz)												
15	QPSK	1	0	19.16	19.41	19.31	20	0				
15	QPSK	1	37	19.30	19.29	19.33						
15	QPSK	1	74	19.25	19.30	19.28						
15	QPSK	36	20	17.40	17.40	17.41						
15	QPSK	36	20	17.26	17.37	17.24	19	1				
15	QPSK	36	56	17.38	17.38	17.28						
15	QPSK	75	0	17.21	17.26	17.20						
15	16QAM	1	0	18.18	18.28	18.21						
15	16QAM	1	37	18.21	18.21	18.20	19	1				
15	16QAM	1	74	18.12	18.20	18.15						
15	16QAM	36	0	16.14	16.36	16.28						
15	16QAM	36	0	16.29	16.29	16.16						
15	16QAM	36	39	16.21	16.32	16.21	18	2				
15	16QAM	36	75	16.25	16.25	16.21						
15	16QAM	75	0	17.16	17.30	17.23						
15	16QAM	1	37	17.25	17.32	17.27						
15	16QAM	1	74	17.24	17.27	17.24	18	2				
15	16QAM	36	0	15.25	15.34	15.38						
15	16QAM	36	20	15.33	15.20	15.23						
15	16QAM	36	56	15.35	15.23	15.23						
15	16QAM	75	0	15.19	15.24	15.18	17	3				
15	16QAM	75	0	16.21	16.21	16.21						
15	25QAM	1	37	17.85	17.85	17.87						
15	25QAM	1	74	17.85	17.81	17.87						
15	25QAM	1	0	17.84	17.85	17.84	19	1				
15	25QAM	36	20	17.97	17.97	17.91						
15	25QAM	36	59	17.97	17.92	17.91						
15	25QAM	75	0	17.90	18.07	17.93						
Channel				43140	43490	43840						
Frequency (MHz)												
10	QPSK	1	0	19.09	19.39	19.26	20	0				
10	QPSK	1	25	19.34	19.33	19.34						
10	QPSK	1	49	19.17	19.40	19.28						
10	QPSK	25	0	17.27	17.43	17.25						
10	QPSK	25	12	17.24	17.33	17.28	19	1				
10	QPSK	25	37	17.22	17.41	17.21						
10	QPSK	50	0	17.21	17.26	17.22						
10	16QAM	1	0	18.22	18.25	18.15						
10	16QAM	1	25	18.25	18.21	18.16	19	1				
10	16QAM	1	49	18.18	18.21	18.24						
10	16QAM	25	0	16.26	16.35	16.19						
10	16QAM	25	12	16.28	16.28	16.22						
10	16QAM	25	37	16.19	16.28	16.30	18	2				
10	16QAM	50	0	15.35	15.35	15.18						
10	16QAM	1	0	17.23	17.24	17.11						
10	16QAM	1	25	17.16	17.21	17.13						
10	16QAM	25	12	17.29	17.29	17.23	17	3				
10	16QAM	25	37	17.29	17.29	17.23						
10	16QAM	50	0	15.20	15.25	15.16						
10	16QAM	50	0	17.04	17.04	17.01						
10	25QAM	1	25	17.88	17.88	17.88	19	1				
10	25QAM	1	49	17.82	17.81	17.87						
10	25QAM	25	12	17.91	17.91	17.81						
10	25QAM	25	37	17.85	17.83	17.89						
Channel				43115	43465	43865						
Frequency (MHz)												
5	QPSK	1	0	19.03	19.30	19.26	20	0				
5	QPSK	1	12	19.34	19.36	19.25						
5	QPSK	1	24	19.27	19.34	19.28						
5	QPSK	12	0	17.35	17.47	17.41						
5	QPSK	12	7	17.22	17.39	17.31	19	1				
5	QPSK	24	0	17.33	17.41	17.33						
5	QPSK	25	0	17.27	17.31	17.20						
5	QPSK	25	0	16.28	16.29	16.21						
5	16QAM	1	12	18.23	18.23	18.20	19	1				
5	16QAM	1	24	18.26	18.15	18.22						
5	16QAM	12	7	18.29	18.25	18.23						
5	16QAM	12	7	16.32	16.26	16.23						
5	16QAM	12	13	16.26	16.27	16.27	18	2				
5	16QAM	1	0	17.28	17.37	17.23						
5	16QAM	1	12	17.19	17.35	17.30						
5	16QAM	24	24	17.23	17.27	17.27						
5	16QAM	25	13	16.28	16.28	16.22	18	2				
5	16QAM	25	0	15.25	15.34	15.23						
5	25QAM	1	12	17.82	17.82	17.88						
5	25QAM	1	12	17.85	17.88	17.87						
5	25QAM	1	24	17.85	17.86	17.96	19	1				
5	25QAM	12	13	16.02	17.05	17.01						
5	25QAM	12	13	17.04	16.08	16.08						



Band 43 for FCC use Ant8														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	18.64	18.65	18.69	20	0						
20	QPSK	1	49	18.48	18.58	18.54								
20	QPSK	1	98	18.44	18.52	18.42								
20	QPSK	50	0	17.26	17.32	17.22								
20	QPSK	50	24	17.14	17.24	17.18	19	1						
20	QPSK	50	50	16.98	17.08	17.02								
20	QPSK	100	0	17.11	17.23	17.21								
20	16QAM	1	0	18.18	18.30	18.23								
20	16QAM	1	49	18.03	18.12	18.22	19	1						
20	16QAM	1	99	18.19	18.18	18.18								
20	16QAM	50	0	16.23	16.35	16.26								
20	16QAM	50	24	16.21	16.30	16.25								
20	16QAM	100	0	16.20	16.26	16.16	18	2						
20	16QAM	1	0	17.21	17.25	17.16								
20	16QAM	1	49	17.06	17.31	17.25								
20	16QAM	1	99	17.28	17.30	17.30								
20	64QAM	1	40	17.06	17.31	17.25	18	2						
20	64QAM	1	89	17.07	17.32	17.26								
20	64QAM	50	0	15.30	15.34	15.31								
20	64QAM	50	24	15.29	15.20	15.29								
20	64QAM	50	50	15.27	15.20	15.25	17	3						
20	64QAM	100	0	15.16	15.26	15.13								
20	256QAM	1	0	17.13	17.27	17.15								
20	256QAM	1	49	17.14	17.23	17.23								
20	256QAM	1	99	17.22	17.21	17.14	19	1						
20	256QAM	50	0	17.07	17.17	17.17								
20	256QAM	50	24	17.24	17.21	17.20								
20	256QAM	50	50	17.21	17.23	17.25								
20	256QAM	100	0	17.14	17.25	17.18	19	1						
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.13	18.40	18.13			20	0				
15	QPSK	1	47	18.42	18.50	18.47								
15	QPSK	1	74	18.38	18.46	18.36								
15	QPSK	36	0	17.20	17.26	17.16								
15	QPSK	36	20	17.08	17.17	17.13	19	1						
15	QPSK	36	36	17.08	17.17	17.16								
15	QPSK	75	0	17.04	17.17	17.16								
15	16QAM	1	0	18.12	18.24	18.17								
15	16QAM	1	47	18.18	18.17	18.15	19	1						
15	16QAM	1	74	18.13	18.13	18.11								
15	16QAM	36	0	16.18	16.30	16.19								
15	16QAM	36	20	16.25	16.34	16.20								
15	16QAM	36	36	16.28	16.26	16.20	18	2						
15	16QAM	75	0	16.14	16.20	16.12								
15	16QAM	1	0	17.16	17.20	17.15								
15	16QAM	1	27	17.19	17.20	17.18								
15	16QAM	1	74	17.19	17.25	17.18	18	2						
15	16QAM	36	0	15.24	15.35	15.25								
15	16QAM	36	20	15.23	15.14	15.23								
15	16QAM	36	36	15.10	15.15	15.05								
15	16QAM	75	0	15.10	15.15	15.05	17	3						
15	256QAM	1	0	17.07	17.22	17.09								
15	256QAM	1	47	17.08	17.17	17.09								
15	256QAM	1	74	17.16	17.14	17.08								
15	256QAM	36	0	17.21	17.27	17.21	19	1						
15	256QAM	36	20	17.19	17.15	17.25								
15	256QAM	36	36	17.16	17.17	17.20								
15	256QAM	75	0	17.02	17.16	17.03								
Channel														
Frequency (MHz)														
10	QPSK	1	0	18.07	18.40	18.04	20	0						
10	QPSK	1	25	18.43	18.49	18.40								
10	QPSK	1	49	18.39	18.40	18.36								
10	QPSK	25	0	17.09	17.20	17.16								
10	QPSK	25	12	17.08	17.18	17.11	19	1						
10	QPSK	25	25	17.11	17.20	17.12								
10	QPSK	50	0	17.06	17.15	17.16								
10	16QAM	1	0	18.12	18.23	18.17								
10	16QAM	1	25	18.17	18.16	18.10	19	1						
10	16QAM	1	49	18.13	18.12	18.12								
10	16QAM	25	0	16.16	16.29	16.21								
10	16QAM	25	12	16.26	16.25	16.19								
10	16QAM	25	25	16.20	16.25	16.10	18	2						
10	16QAM	50	0	16.14	16.19	16.11								
10	16QAM	1	0	17.16	17.20	17.14								
10	16QAM	1	25	17.21	17.24	17.19								
10	16QAM	1	49	17.18	17.25	17.24	18	2						
10	16QAM	25	0	15.23	15.28	15.25								
10	16QAM	25	12	15.22	15.14	15.22								
10	16QAM	25	25	15.21	15.14	15.18								
10	16QAM	50	0	15.11	15.20	15.08	17	3						
10	256QAM	1	0	17.07	17.21	17.09								
10	256QAM	1	25	17.08	17.11	17.17								
10	256QAM	1	49	17.15	17.14	17.08								
10	256QAM	25	0	17.22	17.20	17.21	19	1						
10	256QAM	25	12	17.09	17.14	17.21								
10	256QAM	25	25	17.15	17.17	17.26								
10	256QAM	50	0	17.08	17.19	17.13								
Channel														
Frequency (MHz)														
5	QPSK	1	0	18.68	18.60	18.54	20	0						
5	QPSK	1	12	18.42	18.50	18.47								
5	QPSK	1	24	18.37	18.45	18.36								
5	QPSK	12	0	17.20	17.26	17.16								
5	QPSK	12	7	17.08	17.18	17.11	19	1						
5	QPSK	12	13	17.10	17.20	17.13								
5	QPSK	26	0	17.08	17.16	17.16								
5	16QAM	1	0	18.12	18.23	18.17								
5	16QAM	1	12	18.18	18.18	18.17	19	1						
5	16QAM	1	24	18.13	18.12	18.11								
5	16QAM	12	0	16.17	16.29	16.21								
5	16QAM	12	7	16.25	16.14	16.19								
5	16QAM	12	13	16.27	16.25	16.10	18	2						
5	16QAM	25	0	16.13	16.20	16.13								
5	16QAM	1	0	17.15	17.20	17.13								
5	16QAM	1	12	17.21	17.20	17.20								
5	16QAM	1	24	17.17	17.24	17.23	18	2						
5	16QAM	12	0	15.20	15.26	15.24								
5	16QAM	12	7	15.23	15.14	15.23								
5	16QAM	12	13	15.20	15.10	15.18								
5	16QAM	25	0	15.11	15.10	15.06	17	3						
5	256QAM	1	0	17.07	17.22	17.09								
5	256QAM	1	12	17.07	17.18	17.17								
5	256QAM	1	24	17.15	17.16	17.09								
5	256QAM	12	0	17.21	17.19	17.21	19	1						
5	256QAM	12	7	17.07	17.18	17.19								
5	256QAM	12	13	17.17	17.15	17.24								
5	256QAM	12	19	17.16	17.16	17.18								
Channel														
Frequency (MHz)														

Uplink CA Full Power

Ant1

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.28	22.50
21100	21298	QPSK	1	99	1	0	21.40	22.50
21350	21152	QPSK	1	0	1	99	21.20	22.50

Ant2

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.70	24.00
21100	21298	QPSK	1	99	1	0	22.81	24.00
21350	21152	QPSK	1	0	1	99	22.74	24.00

Ant1

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.30	23.00
37901	38099	QPSK	1	99	1	0	21.47	23.00
38150	37952	QPSK	1	0	1	99	21.39	23.00

Ant2

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.61	24.00
37901	38099	QPSK	1	99	1	0	22.78	24.00
38150	37952	QPSK	1	0	1	99	22.70	24.00

Ant1

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.52	23.00
40185	40383	QPSK	1	99	1	0	21.34	23.00
40620	40818	QPSK	1	99	1	0	21.56	23.00
41055	41253	QPSK	1	99	1	0	21.38	23.00
41490	41292	QPSK	1	0	1	99	21.44	23.00

Ant2

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.62	24.00
40185	40383	QPSK	1	99	1	0	22.69	24.00
40620	40818	QPSK	1	99	1	0	22.87	24.00
41055	41253	QPSK	1	99	1	0	22.76	24.00
41490	41292	QPSK	1	0	1	99	22.71	24.00

Ant0

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.11	23.00
40185	40383	QPSK	1	99	1	0	22.04	23.00
40620	40818	QPSK	1	99	1	0	22.23	23.00
41055	41253	QPSK	1	99	1	0	22.14	23.00
41490	41292	QPSK	1	0	1	99	22.20	23.00

Ant4

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.82	20.00
40185	40383	QPSK	1	99	1	0	18.95	20.00
40620	40818	QPSK	1	99	1	0	19.21	20.00
41055	41253	QPSK	1	99	1	0	18.86	20.00
41490	41292	QPSK	1	0	1	99	19.08	20.00

Ant3

CA_42C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	20.81	21.50
42590	42788	QPSK	1	99	1	0	21.10	21.50
42990	42792	QPSK	1	0	1	99	20.98	21.50

Ant8

CA_42C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	19.20	20.00
42590	42788	QPSK	1	99	1	0	19.54	20.00
42990	42792	QPSK	1	0	1	99	19.32	20.00

Uplink CA Down Power

Ant1 DS12 Standalone

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	17.26
21100	21298	QPSK	1	99	1	0	17.48
21350	21152	QPSK	1	0	1	99	17.36

Ant1 DS12 Simultaneous

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	16.21
21100	21298	QPSK	1	99	1	0	16.34
21350	21152	QPSK	1	0	1	99	16.28

Ant1 DS12 Standalone

CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
37850	38048	QPSK	1	99	1	0	17.98
37901	38099	QPSK	1	99	1	0	18.02
38150	37952	QPSK	1	0	1	99	17.94

Ant1 DS12 Simultaneous

CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
37850	38048	QPSK	1	99	1	0	16.82
37901	38099	QPSK	1	99	1	0	16.88
38150	37952	QPSK	1	0	1	99	16.73

Ant1 DS12 Standalone

CA_41C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	17.95
40185	40383	QPSK	1	99	1	0	17.99
40620	40818	QPSK	1	99	1	0	18.06
41055	41253	QPSK	1	99	1	0	18.01
41490	41292	QPSK	1	0	1	99	17.88

Ant1 DS12 Simultaneous

CA_41C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	16.79
40185	40383	QPSK	1	99	1	0	16.88
40620	40818	QPSK	1	99	1	0	17.06
41055	41253	QPSK	1	99	1	0	16.77
41490	41292	QPSK	1	0	1	99	16.89

Ant2 DS13 Standalone

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	20.23
21100	21298	QPSK	1	99	1	0	20.44
21350	21152	QPSK	1	0	1	99	20.27

Ant2 DS13 Simultaneous

CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
20850	21048	QPSK	1	99	1	0	20.23
21100	21298	QPSK	1	99	1	0	20.33
21350	21152	QPSK	1	0	1	99	20.20

Ant2 DS13 Standalone

CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
37850	38048	QPSK	1	99	1	0	22.65
37901	38099	QPSK	1	99	1	0	22.78
38150	37952	QPSK	1	0	1	99	22.79

Ant2 DS13 Simultaneous

CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
37850	38048	QPSK	1	99	1	0	22.55
37901	38099	QPSK	1	99	1	0	22.86
38150	37952	QPSK	1	0	1	99	22.67

Ant2 DS13 Standalone

CA_41C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	22.53
40185	40383	QPSK	1	99	1	0	22.80
40620	40818	QPSK	1	99	1	0	22.82
41055	41253	QPSK	1	99	1	0	22.79
41490	41292	QPSK	1	0	1	99	22.65

Ant2 DS13 Simultaneous

CA_41C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	22.67
40185	40383	QPSK	1	99	1	0	22.72
40620	40818	QPSK	1	99	1	0	22.88
41055	41253	QPSK	1	99	1	0	22.82
41490	41292	QPSK	1	0	1	99	22.66

Ant8 DS13 Standalone

CA_42C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
42190	42388	QPSK	1	99	1	0	16.39
42590	42788	QPSK	1	99	1	0	16.40
42990	42792	QPSK	1	0	1	99	16.34

Ant8 DS13 Simultaneous

CA_42C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
42190	42388	QPSK	1	99	1	0	15.45
42590	42788	QPSK	1	99	1	0	15.56
42990	42792	QPSK	1	0	1	99	15.32

Ant3 DS13 Simultaneous

CA_42C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
42190	42388	QPSK	1	99	1	0	19.35
42590	42788	QPSK	1	99	1	0	19.35
42990	42792	QPSK	1	0	1	99	19.29

Ant3 DS16 Standalone

CA_42C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
42190	42388	QPSK	1	99	1	0	20.81
42590	42788	QPSK	1	99	1	0	21.10
42990	42792	QPSK	1	0	1	99	20.98

Ant0 DS13 Standalone

CA_41C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	
39750	39948	QPSK	1	99	1	0	21.02
40185	40383	QPSK	1	99	1	0	21.17
40620	40818	QPSK	1	99	1	0	21.25
41055	41253	QPSK	1	99	1	0	21.20
41490	41292	QPSK	1	0	1	99	21.20

Ant0 DS13 Simultaneous

CA 41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dbm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.56	20.50
40185	40383	QPSK	1	99	1	0	19.71	20.50
40620	40818	QPSK	1	99	1	0	19.68	20.50
41055	41253	QPSK	1	99	1	0	19.62	20.50
41490	41292	QPSK	1	0	1	99	19.62	20.50



Anti DS13 Standalone

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	19.51	20.80
21100	21298	QPSK	1	99	1	0	19.64	20.80
21350	21152	QPSK	1	0	1	99	19.47	20.80

Anti DS13 Standalone

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	19.91	21.20
37901	38099	QPSK	1	99	1	0	20.04	21.20
38150	37952	QPSK	1	0	1	99	20.06	21.20

Anti DS13 Standalone

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.92	21.20
40185	40383	QPSK	1	99	1	0	20.09	21.20
40620	40818	QPSK	1	99	1	0	20.19	21.20
41055	41253	QPSK	1	99	1	0	19.93	21.20
41490	41292	QPSK	1	0	1	99	19.91	21.20

Anti DS16 Standalone

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.65	23.10
21100	21298	QPSK	1	99	1	0	21.68	23.10
21350	21152	QPSK	1	0	1	99	21.66	23.10

Anti DS16 Standalone

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.58	23.40
37901	38099	QPSK	1	99	1	0	22.80	23.40
38150	37952	QPSK	1	0	1	99	22.67	23.40

Anti DS16 Standalone

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.37	23.40
40185	40383	QPSK	1	99	1	0	22.41	23.40
40620	40818	QPSK	1	99	1	0	22.47	23.40
41055	41253	QPSK	1	99	1	0	22.45	23.40
41490	41292	QPSK	1	0	1	99	22.52	23.40

Anti DS16 Standalone

CA_42C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42199	42398	QPSK	1	99	1	0	19.20	20.00
42590	42789	QPSK	1	99	1	0	19.54	20.00
42990	42792	QPSK	1	0	1	99	19.32	20.00

Anti DS16 Standalone

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.72	22.00
40185	40383	QPSK	1	99	1	0	20.88	22.00
40620	40818	QPSK	1	99	1	0	20.93	22.00
41055	41253	QPSK	1	99	1	0	20.63	22.00
41490	41292	QPSK	1	0	1	99	20.80	22.00

Anti DS13 Simultaneous

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	16.60	18.00
40185	40383	QPSK	1	99	1	0	16.67	18.00
40620	40818	QPSK	1	99	1	0	16.70	18.00
41055	41253	QPSK	1	99	1	0	16.57	18.00
41490	41292	QPSK	1	0	1	99	16.82	18.00

Anti DS13 Simultaneous

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	15.20	16.60
21100	21298	QPSK	1	99	1	0	15.24	16.60
21350	21152	QPSK	1	0	1	99	15.16	16.60

Anti DS13 Simultaneous

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	16.01	17.20
37901	38099	QPSK	1	99	1	0	16.14	17.20
38150	37952	QPSK	1	0	1	99	16.05	17.20

Anti DS13 Simultaneous

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	15.96	17.20
40185	40383	QPSK	1	99	1	0	16.10	17.20
40620	40818	QPSK	1	99	1	0	16.16	17.20
41055	41253	QPSK	1	99	1	0	16.09	17.20
41490	41292	QPSK	1	0	1	99	16.04	17.20

Anti DS16

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	20.35	21.40
21100	21298	QPSK	1	99	1	0	20.48	21.40
21350	21152	QPSK	1	0	1	99	20.23	21.40

Anti DS16

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.30	22.30
37901	38099	QPSK	1	99	1	0	21.47	22.30
38150	37952	QPSK	1	0	1	99	21.42	22.30

Anti DS16

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.35	22.30
40185	40383	QPSK	1	99	1	0	21.58	22.30
40620	40818	QPSK	1	99	1	0	21.59	22.30
41055	41253	QPSK	1	99	1	0	21.56	22.30
41490	41292	QPSK	1	0	1	99	21.35	22.30

Anti DS16 Standalone

CA 41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dbm)	Tune up Power (dbm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.82	20.00
40185	40383	QPSK	1	99	1	0	19.10	20.00
40620	40818	QPSK	1	99	1	0	19.16	20.00
41055	41253	QPSK	1	99	1	0	19.02	20.00
41490	41292	QPSK	1	0	1	99	19.14	20.00

2CA DL

CA List	PCC										SCC					Power	
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuratio n	LTE	BW	DL	DL Antenna Configuratio n	With CA	Without CA		
	Band	Ant	(MHz)	Freq. (MHz)	Channel					Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)		
CA_2C	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 2	20M	1980	1098		21.03	21.14	
	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 2	20M	1980	1098		22.59	22.70	
CA_2A-4A	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 4	20M	2133	2175	4x4MIMO	21.03	21.14	
	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 4	20M	2133	2175	4x4MIMO	22.57	22.70	
CA_2A-5A	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		21.15	21.34	
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		22.71	22.88	
	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		20.92	21.14	
	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		22.61	22.70	
CA_2A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		22.52	22.73	
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		22.36	22.48	
	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	20.94	21.14	
	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.55	22.70	
CA_2A-6A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		21.24	21.45	
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		22.90	23.04	
	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	21.03	21.14	
	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	22.52	22.70	
CA_4A-5A	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		21.18	21.36	
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		22.80	22.95	
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		21.24	21.34	
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.77	22.88	
CA_4A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 4	20M	2133	2175	4x4MIMO	22.59	22.73	
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 4	20M	2133	2175	4x4MIMO	22.32	22.48	
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	21.20	21.34	
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.74	22.88	
CA_5A-7A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	21.26	21.45	
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	22.86	23.04	
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.59	22.73	
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.35	22.48	
CA_5A-41A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		21.35	21.45	
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.94	23.04	
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.51	22.73	
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.32	22.48	
CA_5A-6A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	22.59	22.73	
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	22.39	22.48	
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		21.16	21.36	
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.73	22.95	
CA_7B	Band 7	Ant1	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544	3193	4x4MIMO	21.28	21.45	
	Band 7	Ant2	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544	3193	4x4MIMO	22.93	23.04	
CA_7C	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2555	3298	4x4MIMO	21.28	21.45	
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2555	3298	4x4MIMO	22.82	23.04	
CA_7A-7A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2688	3425	4x4MIMO	21.29	21.45	
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2688	3425	4x4MIMO	22.89	23.04	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		21.30	21.45	
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		22.87	23.04	
CA_7A-26A	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.67	22.77	
	Band 26	Ant1	15M	831.5	26865	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.42	22.51	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	21.27	21.45	
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.93	23.04	
CA_7A-66A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	21.28	21.45	
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.86	23.04	
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	21.21	21.36	
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.77	22.95	
CA_26A-41A	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.57	22.77	
	Band 26	Ant1	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.29	22.51	
CA_38C	Band 38	Ant1	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2600	38048	4x4MIMO	21.48	21.65	
	Band 38	Ant2	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2600	38048	4x4MIMO	22.72	22.90	
CA_41C	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	22.16	22.32	
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	21.57	21.70	
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	22.81	22.94	
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	19.95	19.25	
CA_41A-41A	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2688	41565	4x4MIMO	22.23	22.32	
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2688	41565	4x4MIMO	21.54	21.70	
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2688	41565	4x4MIMO	22.82	22.94	
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2688	41565	4x4MIMO	19.15	19.25	
CA_41A-42A	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.14	22.32	
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	21.54	21.70	
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.73	22.94	
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	19.14	19.25	
CA_42C	Band 42	Ant3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	21.01	21.18	
	Band 42	Ant8	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	19.53	19.61	
	Band 42	Ant3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3520	42788	4x4MIMO	21.11	21.18	
	Band 42	Ant8	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3520	42788	4x4MIMO	19.52	19.61	
CA_42A-42A	Band 42	Ant3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	5M	3548	43065	4x4MIMO	21.15	21.18	
	Band 42	Ant8	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	5M	3548	43065	4x4MIMO	19.45	19.61	
CA_66B	Band 66	Ant1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164	66979	4x4MIMO	21.25	21.36	
	Band 66	Ant2	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164	66979	4x4MIMO	22.73	22.95	
CA_66C	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2165	66984	4x4MIMO	21.25	21.36	
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2165	66984	4x4MIMO	22.75	22.95	
CA_66A-66A	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2198	67311	4x4MIMO	21.17	21.36	
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2198	67311	4x4MIMO	22.85	22.95	

3CA DL

3CA List	PCC										SCC1				SCC2				Power	
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	RB	Offset	LTE	BW	DL	DL	LTE	BW	DL	DL	Tx. Power (dBm)	Tx. Power (dBm)
	Band	Ant	(MHz)	Freq (MHz)	Channel		RB	RB			Band	(MHz)	Freq (MHz)	Channel	Band	(MHz)	Freq (MHz)	Channel		
	Band	Ant	(MHz)	Freq (MHz)	Channel		RB	RB			Band	(MHz)	Freq (MHz)	Channel	Band	(MHz)	Freq (MHz)	Channel		
CA_2A-4A-5A	Band 2	Ant1	20M	1880	18900	QPSK	1	0			Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	20.94	21.14
	Band 2	Ant2	20M	1880	18900	QPSK	1	0			Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	22.53	22.70
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0			Band 5	10M	881.5	2525	Band 2	20M	1960	900	21.12	21.34
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0			Band 5	10M	881.5	2525	Band 2	20M	1960	900	22.72	22.88
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0			Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.59	22.73
CA_2A-4A-7A	Band 5	Ant1	10M	836.5	20525	QPSK	1	0			Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.28	22.48
	Band 2	Ant1	20M	1880	18900	QPSK	1	0			Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	21.04	21.14
	Band 2	Ant2	20M	1880	18900	QPSK	1	0			Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	22.51	22.70
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0			Band 7	20M	2655	3100	Band 2	20M	1960	900	21.14	21.34
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0			Band 7	20M	2655	3100	Band 2	20M	1960	900	22.79	22.88
CA_2A-5A-7A	Band 7	Ant1	20M	2535	21100	QPSK	1	0			Band 2	20M	1960	900	Band 4	20M	2132.5	2175	21.36	21.45
	Band 7	Ant2	20M	2535	21100	QPSK	1	0			Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.95	23.04
	Band 2	Ant1	20M	1880	18900	QPSK	1	0			Band 5	10M	881.5	2525	Band 7	20M	2655	3100	20.94	21.14
	Band 2	Ant2	20M	1880	18900	QPSK	1	0			Band 5	10M	881.5	2525	Band 7	20M	2655	3100	22.52	22.70
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0			Band 7	20M	2655	3100	Band 2	20M	1960	900	22.60	22.73
CA_2A-5A-66A	Band 5	Ant1	10M	836.5	20525	QPSK	1	0			Band 66	20M	2155	66886	Band 2	20M	1960	900	22.56	22.73
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0			Band 66	20M	2155	66886	Band 2	20M	1960	900	22.29	22.48
	Band 66	Ant1	20M	1745	132322	QPSK	1	0			Band 2	20M	1960	900	Band 5	10M	881.5	2525	21.16	21.36
	Band 66	Ant2	20M	1745	132322	QPSK	1	0			Band 2	20M	1960	900	Band 5	10M	881.5	2525	22.79	22.95
	Band 2	Ant1	20M	1880	18900	QPSK	1	0			Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	21.04	21.14
CA_2A-7A-7A	Band 2	Ant1	20M	1880	18900	QPSK	1	0			Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	22.50	22.70
	Band 2	Ant2	20M	1880	18900	QPSK	1	0			Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	22.50	22.70
	Band 7	Ant1	20M	2535	21100	QPSK	1	0			Band 7	5M	2687.5	3425	Band 2	20M	1960	900	21.25	21.45
	Band 7	Ant2	20M	2535	21100	QPSK	1	0			Band 7	5M	2687.5	3425	Band 2	20M	1960	900	22.84	23.04
	Band 2	Ant2	20M	1880	18900	QPSK	1	0			Band 66	20M	2155	66886	Band 7	20M	2655	3100	21.00	21.14
CA_2A-7A-66A	Band 2	Ant2	20M	1880	18900	QPSK	1	0			Band 66	20M	2155	66886	Band 7	20M	2655	3100	22.59	22.70
	Band 7	Ant1	20M	2535	21100	QPSK	1	0			Band 2	20M	1960	900	Band 66	20M	2155	66886	21.23	21.45
	Band 7	Ant2	20M	2535	21100	QPSK	1	0			Band 2	20M	1960	900	Band 66	20M	2155	66886	22.83	23.04
	Band 66	Ant1	20M	1745	132322	QPSK	1	0			Band 7	20M	2655	3100	Band 2	20M	1960	900	21.18	21.36
	Band 66	Ant2	20M	1745	132322	QPSK	1	0			Band 7	20M	2655	3100	Band 2	20M	1960	900	22.74	22.95
CA_4A-7C	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0			Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	21.20	21.34
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0			Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	22.67	22.88
	Band 7	Ant1	20M	2535	21100	QPSK	1	0			Band 7	20M	2554.8	3298	Band 4	20M	2132.5	2175	21.32	21.45
	Band 7	Ant2	20M	2535	21100	QPSK	1	0			Band 7	20M	2554.8	3298	Band 4	20M	2132.5	2175	22.93	23.04
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0			Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	22.63	22.73
CA_5A-7C	Band 5	Ant1	10M	836.5	20525	QPSK	1	0			Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	22.27	22.48
	Band 7	Ant1	20M	2535	21100	QPSK	1	0			Band 7	20M	2554.8	3298	Band 5	10M	881.5	2525	21.33	21.45
	Band 7	Ant2	20M	2535	21100	QPSK	1	0			Band 7	20M	2554.8	3298	Band 5	10M	881.5	2525	22.83	23.04
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0			Band 66	20M	2155	66886	Band 7	20M	2655	3100	22.62	22.73
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0			Band 66	20M	2155	66886	Band 7	20M	2655	3100	22.36	22.48
CA_5A-66A-66A	Band 7	Ant1	20M	2535	21100	QPSK	1	0			Band 5	10M	881.5	2525	Band 66	20M	2155	66886	21.29	21.45
	Band 7	Ant2	20M	2535	21100	QPSK	1	0			Band 5	10M	881.5	2525	Band 66	20M	2155	66886	22.92	23.04
	Band 66	Ant1	20M	1745	132322	QPSK	1	0			Band 7	20M	2655	3100	Band 5	10M	881.5	2525	21.17	21.36
	Band 66	Ant2	20M	1745	132322	QPSK	1	0			Band 7	20M	2655	3100	Band 5	10M	881.5	2525	22.77	22.95
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0			Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.58	22.73
CA_6A-66A-66A	Band 66	Ant1	20M	1745	132322	QPSK	1	0			Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	21.20	21.36
	Band 66	Ant2	20M	1745	132322	QPSK	1	0			Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	22.75	22.95
	Band 7	Ant1	20M	2535	21100	QPSK	1	0			Band 7	20M	2554.8	3298	Band 66	20M	2155	66886	21.36	21.45
	Band 7	Ant2	20M	2535	21100	QPSK	1	0			Band 7	20M	2554.8	3298	Band 66	20M	2155	66886	22.94	23.04
	Band 66	Ant1	20M	1745	132322	QPSK	1	0			Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	21.20	21.36
CA_7A-26A-66A	Band 66	Ant2	20M	1745	132322	QPSK	1	0			Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	22.80	22.95
	Band 7	Ant1	20M	2535	21100	QPSK	1	0			Band 26	15M	876.5	8865	Band 66	20M	2155	66886	21.26	21.45
	Band 7	Ant2	20M	2535	21100	QPSK	1	0			Band 26	15M	876.5	8865	Band 66	20M	2155	66886	22.87	23.04
	Band 26	Ant0	15M	831.5	26865	QPSK	1	0			Band 66	20M	2155	66886	Band 7	20M	2655	3100	22.68	22.77
	Band 26	Ant1	20M	831.5	26865	QPSK	1	0			Band 66	20M	2155	66886	Band 7	20M	2655	3100	22.33	22.51
CA_7C-66A	Band 66	Ant1	20M	1745	132322	QPSK	1	0			Band 7	20M	2655	3100	Band 26	15M	876.5	8865	21.18	21.36
	Band 66	Ant2	20M	1745	132322	QPSK	1	0			Band 7	20M	2655	3100	Band 26	15M	876.5	8865	22.75	22.95
	Band 7	Ant1	20M	2535	21100	QPSK	1	0			Band 7	20M	2554.8	3298	Band 66	20M	2155	66886	21.36	21.45
	Band 7	Ant2	20M	2535	21100	QPSK	1	0			Band 7	20M	2554.8	3298	Band 66	20M	2155	66886	22.94	23.04
	Band 66	Ant1	20M	1745	132322	QPSK	1	0			Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	21.20	21.36
CA_7A-66A-66A	Band 66	Ant2	20M	1745	132322	QPSK	1	0			Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	22.80	22.95
	Band 7	Ant1	20M	2535	21100	QPSK	1	0			Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	21.30	21.45
	Band 7	Ant2	20M	2535	21100	QPSK	1	0			Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.84	23.04
	Band 66	Ant1	20M	1745	132322	QPSK	1	0			Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	21.26	21.36
	Band 66	Ant2	20M	1745	132322	QPSK	1	0			Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	22.78	22.95
CA_26A-41C	Band 26	Ant0	15M	831.5	26865	QPSK	1	0			Band 41	20M	2593	40620	Band 41	20M	2612.8	40818	22.55	22.77
	Band 26																			

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Configure	PCC								SCC1					SCC2					SCC3					Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq (MHz)	Channel		RB	RB		Offset	Band	(MHz)	Freq (MHz)		Channel	Band	(MHz)	Freq (MHz)		Channel	Band	(MHz)	Freq (MHz)		Channel	Tx Power (dBm)
CA_2A-4A-7C	Band 2	Ant1	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	20.93	21.14
	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	22.57	22.70
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	Band 2	20M	1960	900	21.14	21.34	
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	Band 2	20M	1960	900	22.79	22.88	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	Band 2	20M	1960	900		Band 4	20M	2132.5	2175	4xMIMO	21.28	21.45
CA_5A-7C-66A	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	Band 2	20M	1960	900		Band 4	20M	2132.5	2175	4xMIMO	22.92	23.04
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	Band 66	20M	2155	66886	4xMIMO	22.57	22.73
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	Band 66	20M	2155	66886	4xMIMO	22.33	22.48
	Band 7	Ant1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	21.23	21.45
	Band 7	Ant2	20M	1745	132322	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	22.93	23.04
CA_5A-7A-66A-66A	Band 66	Ant1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 7	20M	2554.8	3298		Band 66	20M	2155	66886	4xMIMO	Band 5	10M	881.5	2525		21.18	21.36
	Band 66	Ant2	20M	2535	21100	QPSK	1	0	4xMIMO	Band 7	20M	2554.8	3298		Band 66	20M	2155	66886	4xMIMO	Band 5	10M	881.5	2525		22.83	22.95
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	22.62	22.73
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	22.34	22.48
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 5	10M	881.5	2525		21.32	21.45
CA_7C-66A-66A	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 5	10M	881.5	2525		22.89	23.04
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4xMIMO	21.25	21.36
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4xMIMO	22.78	22.95
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	21.25	21.45
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	22.87	23.04
CA_41C-41C	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2197.5	67311	4xMIMO	Band 7	20M	2655	3100	4xMIMO	Band 7	20M	2554.8	3298	4xMIMO	22.85	22.95
	Band 41	Ant0	20M	2506	39750	QPSK	1	0	4xMIMO	Band 41	20M	2525.8	39948	4xMIMO	Band 41	20M	2660.2	41292	4xMIMO	Band 41	20M	2680	41490	4xMIMO	22.13	22.32
	Band 41	Ant1	20M	2506	39750	QPSK	1	0	4xMIMO	Band 41	20M	2525.8	39948	4xMIMO	Band 41	20M	2660.2	41292	4xMIMO	Band 41	20M	2680	41490	4xMIMO	21.51	21.70
	Band 41	Ant2	20M	2506	39750	QPSK	1	0	4xMIMO	Band 41	20M	2525.8	39948	4xMIMO	Band 41	20M	2660.2	41292	4xMIMO	Band 41	20M	2680	41490	4xMIMO	22.82	22.94
	Band 41	Ant4	20M	2506	39750	QPSK	1	0	4xMIMO	Band 41	20M	2525.8	39948	4xMIMO	Band 41	20M	2660.2	41292	4xMIMO	Band 41	20M	2680	41490	4xMIMO	19.14	19.25
CA_41E	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 41	20M	2632.6	41016	4xMIMO	Band 41	20M	2652.4	41214	4xMIMO	22.17	22.32
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 41	20M	2632.6	41016	4xMIMO	Band 41	20M	2652.4	41214	4xMIMO	21.53	21.70
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 41	20M	2632.6	41016	4xMIMO	Band 41	20M	2652.4	41214	4xMIMO	22.84	22.94
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 41	20M	2632.6	41016	4xMIMO	Band 41	20M	2652.4	41214	4xMIMO	19.12	19.25
	Band 41	Ant0	20M	2506	39750	QPSK	1	0	4xMIMO	Band 41	20M	2640.4	41094	4xMIMO	Band 41	20M	2660.2	41292	4xMIMO	Band 41	20M	2680	41490	4xMIMO	22.14	22.32
CA_41A-41D	Band 41	Ant1	20M	2506	39750	QPSK	1	0	4xMIMO	Band 41	20M	2640.4	41094	4xMIMO	Band 41	20M	2660.2	41292	4xMIMO	Band 41	20M	2680	41490	4xMIMO	21.52	21.70
	Band 41	Ant2	20M	2506	39750	QPSK	1	0	4xMIMO	Band 41	20M	2640.4	41094	4xMIMO	Band 41	20M	2660.2	41292	4xMIMO	Band 41	20M	2680	41490	4xMIMO	22.79	22.94
	Band 41	Ant4	20M	2506	39750	QPSK	1	0	4xMIMO	Band 41	20M	2640.4	41094	4xMIMO	Band 41	20M	2660.2	41292	4xMIMO	Band 41	20M	2680	41490	4xMIMO	19.06	19.25
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	5M	2687.5	41565	4xMIMO	Band 41	20M	2506	39750	4xMIMO	Band 41	20M	2525.8	39948	4xMIMO	22.22	22.32
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	5M	2687.5	41565	4xMIMO	Band 41	20M	2506	39750	4xMIMO	Band 41	20M	2525.8	39948	4xMIMO	21.55	21.70
CA_41A-41A-41C	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	5M	2687.5	41565	4xMIMO	Band 41	20M	2506	39750	4xMIMO	Band 41	20M	2525.8	39948	4xMIMO	22.78	22.94
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	5M	2687.5	41565	4xMIMO	Band 41	20M	2506	39750	4xMIMO	Band 41	20M	2525.8	39948	4xMIMO	19.13	19.25
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 42	20M	3500	42590	4xMIMO	Band 42	20M	3519.8	42788	4xMIMO	22.17	22.32
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 42	20M	3500	42590	4xMIMO	Band 42	20M	3519.8	42788	4xMIMO	21.59	21.70
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 42	20M	3500	42590	4xMIMO	Band 42	20M	3519.8	42788	4xMIMO	22.77	22.94
CA_41C-42C	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 42	20M	3500	42590	4xMIMO	Band 42	20M	3519.8	42788	4xMIMO	19.04	19.25
	Band 42	Ant3	20M	3500	42590	QPSK	1	0	4xMIMO	Band 42	20M	3519.8	42788	4xMIMO	Band 41	20M	2593	40620	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	21.16	21.18
	Band 42	Ant8	20M	3500	42590	QPSK	1	0	4xMIMO	Band 42	20M	3519.8	42788	4xMIMO	Band 41	20M	2593	40620	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	19.58	19.61
	Band 42	Ant5	20M	3460	42190	QPSK	1	0	4xMIMO	Band 42	20M	3479.8	42388	4xMIMO	Band 42	20M	3499.6	42586	4xMIMO	Band 42	20M	3519.4	42784	4xMIMO	21.11	21.18
	Band 42	Ant8	20M	3460	42190	QPSK	1	0	4xMIMO	Band 42	20M	3479.8	42388	4xMIMO	Band 42	20M	3499.6	42586	4xMIMO	Band 42	20M	3519.4	42784	4xMIMO	19.43	19.61

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Configure	PCC									SCC1				SCC2				SCC3				SCC4				Power					
	LTE	BW	BW	UL		UL#	UL	DL Antenna Configuratio n		LTE	BW	DL	DL	DL Antenna Configuratio n	LTE	BW	DL	DL	DL Antenna Configuratio n	LTE	BW	DL	DL	DL Antenna Configuratio n	LTE	BW	DL	DL	DL Antenna Configuratio n	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx Power (dBm)	Tx Power (dBm)
CA_5A-7C-66A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.56	22.73
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.33	22.48
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		21.33	21.45
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		22.95	23.04
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	21.2	21.36
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.83	22.95

Full & Default power

n5 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				831.5	836.5	841.5		
20	PV2 BPSK	1	1	23.04	23.13	23.26		
20	PV2 BPSK	1	53	22.90	23.03	22.93	24.0	0.0
20	PV2 BPSK	1	104	23.00	23.10	22.97		
20	PV2 BPSK	50	0	22.56	22.64	22.55	23.5	0.5
20	PV2 BPSK	50	28	22.82	22.98	22.85	24.0	0.0
20	PV2 BPSK	50	56	22.57	22.70	22.53		
20	PV2 BPSK	100	0	22.61	22.73	22.58	23.5	0.5
20	QPSK	1	1	23.16	23.19	23.02		
20	QPSK	1	53	22.88	23.06	22.91	24.0	0.0
20	QPSK	1	104	23.09	23.12	23.04		
20	QPSK	50	0	22.15	22.17	22.13	23.0	1.0
20	QPSK	50	28	23.11	23.14	23.08	24.0	0.0
20	QPSK	50	56	22.12	22.22	22.06		
20	QPSK	100	0	22.28	22.31	22.24	23.0	1.0
20	16QAM	1	1	22.02	22.05	21.96	23.0	1.0
20	64QAM	1	1	20.97	21.02	20.95	21.5	2.5
20	256QAM	1	1	18.39	18.49	18.37	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.03	23.10	22.97	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.05	23.02	22.95	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				828.5	836.5	844.5		
5	QPSK	1	1	23.08	23.04	22.85	24.0	0.0

n41 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505200	518598	528000	24.0	0.0	
Frequency (MHz)				2645.01	2592.99	2640			
100	PQ2 BPSK	1	1	23.06	23.15	23.12			
100	PQ2 BPSK	1	137	23.00	23.07	22.97			
100	PQ2 BPSK	1	271	23.05	23.13	23.05	23.5	0.5	
100	PQ2 BPSK	135	0	22.57	22.71	22.65			
100	PQ2 BPSK	135	69	22.87	23.04	22.94			
100	PQ2 BPSK	135	138	22.56	22.68	22.51			
100	PQ2 BPSK	270	0	22.58	22.73	22.60	23.5	0.5	
100	QPSK	1	1	23.09	23.18	23.05			
100	QPSK	1	137	22.88	23.06	22.96			
100	QPSK	1	271	23.02	23.12	23.09			
100	QPSK	135	0	22.09	22.18	22.07	23.0	1.0	
100	QPSK	135	69	22.99	23.13	23.02			
100	QPSK	135	138	22.11	22.21	22.13			
100	QPSK	270	0	22.14	22.21	22.11			
100	64QAM	1	1	21.88	22.00	21.96	23.0	1.0	
100	64QAM	1	1	20.57	20.68	20.62			
100	256QAM	1	1	18.36	18.54	18.37			
Channel				508200	518598	528996			
90	QPSK	1	1	23.05	23.07	22.99	24.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2538.02	2592.99	2649.98			
80	QPSK	1	1	22.98	23.02	22.94		24.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.93	23.03	22.98		24.0	
Channel				505200	518598	531996			
Frequency (MHz)				2528	2592.99	2659.98			
60	QPSK	1	1	22.92	23.14	23.02		24.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.93	23.06	22.88	24.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.07	23.11	22.89		24.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.95	23.10	22.96	24.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.94	23.04	22.99		24.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	22.98	23.16	22.99	24.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	23.07	23.13	22.90		24.0	



n2 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000	24.0	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	23.61	23.63	23.55			
20	PI2 BPSK	1	53	23.50	23.59	23.52	23.5	0.5	
20	PI2 BPSK	1	104	23.39	23.42	23.32			
20	PI2 BPSK	50	0	23.21	23.24	23.12			
20	PI2 BPSK	50	28	23.57	23.61	23.49	24.0	0.0	
20	PI2 BPSK	50	58	23.04	23.19	23.11	23.5	0.5	
20	PI2 BPSK	100	0	23.14	23.22	23.16			
20	QPSK	1	1	23.58	23.66	23.63			
20	QPSK	1	53	23.57	23.62	23.50	24.0	0.0	
20	QPSK	1	104	23.38	23.55	23.48	23.0	1.0	
20	QPSK	50	0	22.80	22.72	22.54			
20	QPSK	50	28	23.54	23.61	23.50			
20	QPSK	50	58	22.62	22.67	22.44	23.0	1.0	
20	QPSK	100	0	22.67	22.74	22.62	23.0	1.0	
20	16QAM	1	1	22.48	22.55	22.40			
20	64QAM	1	1	21.26	21.33	21.18	21.5	2.5	
20	256QAM	1	1	18.88	18.98	18.93	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5	24.0	0.0	
15	QPSK	1	1	23.48	23.50	23.55			
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1920	1905	24.0	0.0	
10	QPSK	1	1	23.43	23.49	23.60			
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5	24.0	0.0	
5	QPSK	1	1	23.43	23.53	23.54			

n7 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000	24.0	0.0	
Frequency (MHz)				2620	2635	2650			
40	PI2 BPSK	1	1	23.18	23.25	23.21			
40	PI2 BPSK	1	108	23.20	23.30	23.17	23.5	0.5	
40	PI2 BPSK	1	214	23.22	23.28	23.21			
40	PI2 BPSK	108	0	22.82	22.89	22.82			
40	PI2 BPSK	108	54	23.24	23.33	23.24	24.0	0.0	
40	PI2 BPSK	108	108	22.75	22.88	22.79	23.5	0.5	
40	PI2 BPSK	216	0	22.77	22.91	22.79			
40	QPSK	1	1	23.27	23.34	23.31			
40	QPSK	1	108	23.12	23.27	23.09	24.0	0.0	
40	QPSK	1	214	23.19	23.24	23.08	23.0	1.0	
40	QPSK	108	0	22.20	22.32	22.24			
40	QPSK	108	54	23.20	23.29	23.27			
40	QPSK	108	108	22.22	22.38	22.25	23.0	1.0	
40	QPSK	216	0	22.30	22.35	22.34	23.0	1.0	
40	16QAM	1	1	22.22	22.27	22.18			
40	64QAM	1	1	20.90	20.97	20.87	21.5	2.5	
40	256QAM	1	1	18.73	18.75	18.58	19.5	4.5	
Channel				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2615	2635	2655	24.0	0.0	
30	QPSK	1	1	23.21	23.20	23.19			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2635	2657.5	24.0	0.0	
25	QPSK	1	1	23.10	23.18	23.14			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2610	2635	2660	24.0	0.0	
20	QPSK	1	1	23.20	23.28	23.15			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2607.5	2635	2662.5	24.0	0.0	
15	QPSK	1	1	23.18	23.29	23.14			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2605	2635	2665	24.0	0.0	
10	QPSK	1	1	23.13	23.32	23.17			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.5	2635	2667.5	24.0	0.0	
5	QPSK	1	1	23.11	23.22	23.14			

n66 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	24.0	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	23.30	23.40	23.23			
40	PI2 BPSK	1	108	23.32	23.34	23.21	23.5	0.5	
40	PI2 BPSK	1	214	23.17	23.28	23.13			
40	PI2 BPSK	108	0	22.77	22.94	22.91			
40	PI2 BPSK	108	54	23.20	23.33	23.28	24.0	0.0	
40	PI2 BPSK	108	108	22.71	22.87	22.73	23.5	0.5	
40	PI2 BPSK	216	0	22.73	22.89	22.73			
40	QPSK	1	1	23.41	23.49	23.40			
40	QPSK	1	108	23.30	23.37	23.32	24.0	0.0	
40	QPSK	1	214	23.17	23.32	23.18	23.0	1.0	
40	QPSK	108	0	22.35	22.42	22.38			
40	QPSK	108	54	23.39	23.47	23.42			
40	QPSK	108	108	22.34	22.39	22.27	23.0	1.0	
40	QPSK	216	0	22.37	22.44	22.41	23.0	1.0	
40	16QAM	1	1	22.44	22.51	22.34			
40	64QAM	1	1	21.01	21.03	20.85	21.5	2.5	
40	256QAM	1	1	18.94	19.08	18.98	19.5	4.5	
Channel				345500	349000	352500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	23.39	23.35	23.29			
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5	24.0	0.0	
25	QPSK	1	1	23.28	23.48	23.34			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	23.29	23.44	23.25			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	23.28	23.41	23.32			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	23.30	23.38	23.35			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	23.35	23.31	23.37			

n38 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	24.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	23.05	23.16	23.11			
40	PI/2 BPSK	1	53	23.01	23.12	22.97	24.0	0.0	
40	PI/2 BPSK	1	104	22.94	23.07	22.94			
40	PI/2 BPSK	50	0	22.54	22.69	22.58		23.5	
40	PI/2 BPSK	50	28	23.01	23.09	22.94	24.0	0.0	
40	PI/2 BPSK	50	56	22.57	22.61	22.45	23.5	0.5	
40	PI/2 BPSK	100	0	22.48	22.65	22.55	24.0	0.0	
40	QPSK	1	1	23.03	23.22	23.16			
40	QPSK	1	53	22.94	23.06	22.90			
40	QPSK	1	104	23.01	23.10	22.98	23.0	1.0	
40	QPSK	50	0	22.10	22.13	22.08			
40	QPSK	50	28	23.12	23.17	23.03		24.0	
40	QPSK	80	56	21.90	22.06	22.00	23.0	1.0	
40	QPSK	100	0	22.12	22.15	22.05	23.0	1.0	
40	16QAM	1	1	22.00	22.14	22.10			
40	64QAM	1	1	20.49	20.68	20.63	21.5	2.5	
40	256QAM	1	1	18.44	18.62	18.48	19.5	4.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.01	2595	2604.99	24.0	0.0	
30	QPSK	1	1	23.16	23.12	23.08	24.0	0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48	24.0	0.0	
25	QPSK	1	1	23.17	23.15	23.09	24.0	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610	24.0	0.0	
20	QPSK	1	1	23.17	23.10	23.15	24.0	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49	24.0	0.0	
15	QPSK	1	1	23.16	23.21	23.16	24.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98	24.0	0.0	
10	QPSK	1	1	23.21	23.17	23.06	24.0	0.0	

n41 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518598	520600	24.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	23.08	23.18	23.12			
100	PI/2 BPSK	1	137	23.04	23.15	22.99	24.0	0.0	
100	PI/2 BPSK	1	271	22.95	23.10	22.97			
100	PI/2 BPSK	135	0	22.56	22.71	22.61		23.5	
100	PI/2 BPSK	135	69	23.04	23.11	22.97	24.0	0.0	
100	PI/2 BPSK	135	138	22.58	22.63	22.47	23.5	0.5	
100	PI/2 BPSK	270	0	22.51	22.67	22.57	24.0	0.0	
100	QPSK	1	1	23.06	23.24	23.16			
100	QPSK	1	137	22.96	23.08	22.92			
100	QPSK	1	271	23.03	23.13	23.00	23.0	1.0	
100	QPSK	135	0	22.13	22.16	22.10			
100	QPSK	135	69	23.14	23.18	23.05		24.0	
100	QPSK	135	138	21.92	22.09	22.01	23.0	1.0	
100	QPSK	270	0	22.13	22.16	22.08	23.0	1.0	
100	16QAM	1	1	22.02	22.16	22.11			
100	64QAM	1	1	20.52	20.69	20.66	21.5	2.5	
100	256QAM	1	1	18.47	18.64	18.51	19.5	4.5	
Channel				506200	518598	520598	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	22.94	23.21	23.11	24.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	22.90	23.10	23.03	24.0	0.0	
Channel				506202	518598	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	24.0	0.0	
70	QPSK	1	1	23.00	23.12	23.13	24.0	0.0	
Channel				505200	518598	521998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	22.93	23.06	23.06	24.0	0.0	
Channel				504204	518598	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	22.91	23.17	23.06	24.0	0.0	
Channel				503202	518598	523000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	23.01	23.20	23.06	24.0	0.0	
Channel				502200	518598	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99	24.0	0.0	
30	QPSK	1	1	22.88	23.07	23.06	24.0	0.0	
Channel				501204	518598	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	23.00	23.15	23.15	24.0	0.0	
Channel				500700	518598	526498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2493.15	2592.99	2689.48	24.0	0.0	
15	QPSK	1	1	23.00	23.08	23.06	24.0	0.0	
Channel				500202	518598	527000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	24.0	0.0	
10	QPSK	1	1	22.89	23.14	23.01	24.0	0.0	

n7 Ant2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50000	50700	51000	24.0	0.0
Frequency (MHz)				2620	2635	2650		
40	PV2 BPSK	1	1	23.20	23.18	23.12	24.0	0.0
40	PV2 BPSK	1	108	23.18	23.23	23.10		
40	PV2 BPSK	1	214	23.23	23.14	23.07		
40	PV2 BPSK	108	0	22.51	22.83	22.85	23.5	0.5
40	PV2 BPSK	108	54	22.82	23.14	23.13	24.0	0.0
40	PV2 BPSK	108	108	22.88	22.74	22.61	23.5	0.5
40	PV2 BPSK	216	0	22.61	22.74	22.61		
40	QPSK	1	1	23.09	23.30	23.28	24.0	0.0
40	QPSK	1	108	23.24	23.19	23.08		
40	QPSK	1	214	23.05	23.19	23.17		
40	QPSK	108	0	22.06	22.08	22.14	23.0	1.0
40	QPSK	108	54	23.03	23.29	23.21	24.0	0.0
40	QPSK	108	108	22.17	22.25	22.27	23.0	1.0
40	QPSK	216	0	22.02	22.31	22.30		
40	16QAM	1	1	22.16	22.25	22.17	23.0	1.0
40	64QAM	1	1	20.49	20.83	20.69	21.5	2.5
40	256QAM	1	1	18.82	18.72	18.58	19.5	4.5
Channel				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2615	2635	2655		
30	QPSK	1	1	23.08	23.26	23.19	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2635	2657.5		
25	QPSK	1	1	23.01	23.10	23.12	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2610	2635	2660		
20	PV2 BPSK	1	1	23.25	23.09	23.12	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2607.5	2635	2662.5		
15	QPSK	1	1	23.01	23.19	23.24	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2605	2635	2665		
10	QPSK	1	1	22.97	23.10	23.02	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.5	2635	2667.5		
5	QPSK	1	1	23.20	23.10	23.05	24.0	0.0

n38 Ant2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				516004	519000	519996	24.0	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	22.69	22.72	22.60		
40	PI/2 BPSK	1	53	22.60	22.66	22.58		
40	PI/2 BPSK	1	104	22.59	22.60	22.56	23.5	0.5
40	PI/2 BPSK	50	0	22.07	22.15	22.12		
40	PI/2 BPSK	50	28	22.43	22.61	22.48		
40	PI/2 BPSK	50	56	21.97	22.02	21.88		
40	PI/2 BPSK	100	0	21.91	22.03	22.00	24.0	0.0
40	QPSK	1	1	22.77	22.86	22.64		
40	QPSK	1	53	22.54	22.66	22.53		
40	QPSK	1	104	22.56	22.61	22.50		
40	QPSK	50	0	21.46	21.59	21.43	23.0	1.0
40	QPSK	50	28	22.59	22.69	22.59	24.0	0.0
40	QPSK	80	56	21.51	21.54	21.53	23.0	1.0
40	QPSK	100	0	21.55	21.60	21.57	23.0	1.0
40	16QAM	1	1	21.66	21.82	21.65		
40	64QAM	1	1	20.49	20.58	20.40		
40	256QAM	1	1	17.59	17.67	17.63		
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.20	22.22	22.03	24.0	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	22.10	22.20	22.11	24.0	0.0
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.18	22.15	22.07	24.0	0.0
Channel				515502	519000	524998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	22.19	22.12	22.09	24.0	0.0
Channel				515004	519000	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	22.08	22.10	22.11	24.0	0.0

n41 Ant2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502002	518998	520000	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.86	22.94	22.91		
100	PI/2 BPSK	1	137	22.90	22.96	22.91		
100	PI/2 BPSK	1	271	22.77	22.91	22.79	23.5	0.5
100	PI/2 BPSK	135	0	22.47	22.55	22.41		
100	PI/2 BPSK	135	69	22.93	22.98	22.85		
100	PI/2 BPSK	135	138	22.40	22.49	22.44		
100	PI/2 BPSK	270	0	22.36	22.53	22.45	24.0	0.0
100	QPSK	1	1	22.96	23.03	22.99		
100	QPSK	1	137	22.87	23.00	22.85		
100	QPSK	1	271	22.82	22.97	22.82		
100	QPSK	135	0	22.06	22.11	22.06	23.0	1.0
100	QPSK	135	69	22.93	22.97	22.91	24.0	0.0
100	QPSK	135	138	21.96	22.01	21.92	23.0	1.0
100	QPSK	270	0	21.98	22.03	21.94	23.0	1.0
100	16QAM	1	1	21.91	22.08	21.97		
100	64QAM	1	1	20.48	20.61	20.56		
100	256QAM	1	1	18.48	18.52	18.46		
Channel				502000	518998	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.92	22.96	22.88	24.0	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	22.90	22.89	22.96	24.0	0.0
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.90	22.86	22.92	24.0	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.98		
60	QPSK	1	1	22.90	22.99	22.82	24.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.94	22.94	22.87	24.0	0.0
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.88	22.91	22.86	24.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.99		
30	QPSK	1	1	22.89	22.93	22.86	24.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.93	22.97	22.91	24.0	0.0
Channel				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2499.15	2592.99	2684.48		
15	QPSK	1	1	22.82	22.85	22.88	24.0	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.88	22.90	22.81	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				655000	655000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.75	22.80	22.68	24.0	0.0
100	PI/2 BPSK	1	137	22.64	22.75	22.68		
100	PI/2 BPSK	1	271	22.67	22.71	22.59		
100	PI/2 BPSK	135	0	22.16	22.30	22.26		
100	PI/2 BPSK	135	69	22.61	22.77	22.70	24.0	0.0
100	PI/2 BPSK	135	138	22.24	22.32	22.29	23.5	0.5
100	PI/2 BPSK	270	0	22.26	22.37	22.35	24.0	0.0
100	QPSK	1	1	22.75	22.81	22.64		
100	QPSK	1	137	22.66	22.79	22.69		
100	QPSK	1	271	22.67	22.74	22.66		
100	QPSK	135	0	21.67	21.82	21.80	23.0	1.0
100	QPSK	135	69	22.63	22.78	22.71	24.0	0.0
100	QPSK	135	138	21.66	21.75	21.66	23.0	1.0
100	QPSK	270	0	21.76	21.82	21.81	23.0	1.0
100	16QAM	1	1	21.37	21.48	21.32		
100	64QAM	1	1	20.01	20.16	20.11		
100	256QAM	1	1	18.14	18.18	18.09		
Channel				649568	655000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.74	22.74	22.47	24.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.65	22.69	22.58	24.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.73	22.64	22.61	24.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	22.63	22.65	22.56	24.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.62	22.72	22.50	24.0	0.0
Channel				648000	655000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.74	22.77	22.57	24.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.75	22.70	22.49	24.0	0.0
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	22.66	22.67	22.56	24.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.73	22.71	22.47	24.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	22.73	22.75	22.60	24.0	0.0
Channel				647000	655000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.67	22.78	22.52	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				653000	653000	660000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	25.68	25.78	25.74	27.0	0.0
100	PI/2 BPSK	1	137	25.65	25.62	25.79		
100	PI/2 BPSK	1	271	25.64	25.77	25.60		
100	PI/2 BPSK	135	0	25.22	25.37	25.20		
100	PI/2 BPSK	135	69	25.77	25.85	25.82	27.0	0.0
100	PI/2 BPSK	135	138	25.27	25.33	25.18	26.5	0.5
100	PI/2 BPSK	270	0	25.29	25.39	25.24	27.0	0.0
100	QPSK	1	1	25.70	25.69	25.84		
100	QPSK	1	137	25.67	25.62	25.80		
100	QPSK	1	271	25.69	25.78	25.68		
100	QPSK	135	0	24.69	24.61	24.69	26.0	1.0
100	QPSK	135	69	25.66	25.77	25.72	27.0	0.0
100	QPSK	135	138	24.64	24.62	24.72	26.0	1.0
100	QPSK	270	0	24.71	24.90	24.83	26.0	1.0
100	16QAM	1	1	24.77	24.85	24.79		
100	64QAM	1	1	23.35	23.39	23.28		
100	256QAM	1	1	20.99	21.02	20.88		
Channel				649568	655000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	25.62	25.62	25.69	27.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	25.70	25.72	25.72	27.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	25.72	25.78	25.70	27.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	25.65	25.77	25.61	27.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	25.69	25.74	25.75	27.0	0.0
Channel				648000	655000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	25.65	25.81	25.70	27.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	25.65	25.71	25.75	27.0	0.0
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	25.73	25.76	25.79	27.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	25.75	25.79	25.61	27.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	25.73	25.85	25.74	27.0	0.0
Channel				647000	655000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	25.66	25.86	25.80	27.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)			
Channel				3750	3750	3750					
Frequency (MHz)											
100	PI2 BPSK	1	1		22.90		24.0	0.0			
100	PI2 BPSK	1	137		22.97						
100	PI2 BPSK	1	271		22.97						
100	PI2 BPSK	135	0		22.59		23.5				
100	PI2 BPSK	135	69		22.92		24.0				
100	PI2 BPSK	135	138		22.64		23.5				
100	PI2 BPSK	270	0		22.69						
100	QPSK	1	1		23.08		24.0	0.0			
100	QPSK	1	137		23.04						
100	QPSK	1	271		23.00						
100	QPSK	135	0		22.03		23.0				
100	QPSK	135	69		23.01		24.0				
100	QPSK	135	138		22.03		1.0				
100	QPSK	270	0		22.19		23.0				
100	16QAM	1	1		21.92		23.0				
100	64QAM	1	1		20.97		21.5				
100	256QAM	1	1		18.93		19.5				
Channel				649668	650000	650334	Tune-up limit	MPR			
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)			
90	QPSK	1	1	22.88	22.75	22.84	24.0	0.0			
Channel				649334	650000	650668	Tune-up limit	MPR			
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)			
80	QPSK	1	1	22.92	22.84	22.82	24.0	0.0			
Channel				649000	650000	651000	Tune-up limit	MPR			
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)			
70	QPSK	1	1	22.98	23.01	22.80	24.0	0.0			
Channel				648668	650000	651334	Tune-up limit	MPR			
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)			
60	QPSK	1	1	22.85	22.87	22.88	24.0	0.0			
Channel				648334	650000	651668	Tune-up limit	MPR			
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)			
50	QPSK	1	1	22.78	22.89	22.86	24.0	0.0			
Channel				648000	650000	652000	Tune-up limit	MPR			
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)			
40	QPSK	1	1	22.84	22.85	22.86	24.0	0.0			
Channel				647668	650000	652334	Tune-up limit	MPR			
Frequency (MHz)				3715.02	3750	3765.01	(dBm)	(dB)			
30	QPSK	1	1	22.85	22.85	22.85	24.0	0.0			
Channel				647500	650000	652500	Tune-up limit	MPR			
Frequency (MHz)				3712.5	3750	3787.5	(dBm)	(dB)			
25	QPSK	1	1	22.91	23.02	22.90	24.0	0.0			
Channel				647334	650000	652668	Tune-up limit	MPR			
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)			
20	QPSK	1	1	22.83	22.91	22.83	24.0	0.0			
Channel				647168	650000	652834	Tune-up limit	MPR			
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)			
15	QPSK	1	1	22.86	22.87	22.84	24.0	0.0			
Channel				647000	650000	653000	Tune-up limit	MPR			
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)			
10	QPSK	1	1	22.87	22.91	22.84	24.0	0.0			

Part270 n78 PC2 Ant3											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)			
Channel				3750	3750	3750					
Frequency (MHz)											
100	PI2 BPSK	1	1		25.80		27.0	0.0			
100	PI2 BPSK	1	137		25.79						
100	PI2 BPSK	1	271		25.63						
100	PI2 BPSK	135	0		25.42		26.5				
100	PI2 BPSK	135	69		25.75		27.0				
100	PI2 BPSK	135	138		25.25		26.5				
100	PI2 BPSK	270	0		25.28						
100	QPSK	1	1		25.96		27.0	0.0			
100	QPSK	1	137		25.82						
100	QPSK	1	271		25.69						
100	QPSK	135	0		24.91		26.0				
100	QPSK	135	69		25.84		27.0				
100	QPSK	135	138		24.71		26.0				
100	QPSK	270	0		24.75		26.0				
100	16QAM	1	1		25.07		26.0				
100	64QAM	1	1		23.73		24.5				
100	256QAM	1	1		21.55		22.5				
Channel				649668	650000	650334	Tune-up limit	MPR			
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)			
90	QPSK	1	1	25.80	25.85	25.78	27.0	0.0			
Channel				649334	650000	650668	Tune-up limit	MPR			
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)			
80	QPSK	1	1	25.80	25.78	25.85	27.0	0.0			
Channel				649000	651000	651000	Tune-up limit	MPR			
Frequency (MHz)				3735	#VALUE!	3765	(dBm)	(dB)			
70	QPSK	1	1	25.73	25.75	25.75	27.0	0.0			
Channel				648668	650000	651334	Tune-up limit	MPR			
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)			
60	QPSK	1	1	25.80	25.81	25.81	27.0	0.0			
Channel				648334	650000	651668	Tune-up limit	MPR			
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)			
50	QPSK	1	1	25.77	25.79	25.65	27.0	0.0			
Channel				648000	650000	652000	Tune-up limit	MPR			
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)			
40	QPSK	1	1	25.81	25.84	25.79	27.0	0.0			
Channel				647668	650000	652334	Tune-up limit	MPR			
Frequency (MHz)				3715.02	3750	3765.01	(dBm)	(dB)			
30	QPSK	1	1	25.75	25.74	25.81	27.0	0.0			
Channel				647500	650000	652500	Tune-up limit	MPR			
Frequency (MHz)				3712.5	3750	3787.5	(dBm)	(dB)			
25	QPSK	1	1	25.80	25.75	25.74	27.0	0.0			
Channel				647334	650000	652668	Tune-up limit	MPR			
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)			
20	QPSK	1	1	25.72	25.78	25.80	27.0	0.0			
Channel				647168	650000	652834	Tune-up limit	MPR			
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)			
15	QPSK	1	1	25.78	25.82	25.82	27.0	0.0			
Channel				647000	650000	653000	Tune-up limit	MPR			
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)			
10	QPSK	1	1	25.80	25.66	25.73	27.0	0.0			

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				500202	518598	539000	22.5	0.0	
Frequency (MHz)				2548.01	2592.99	2640			
100	PV2 BPSK	1	1	20.97	21.10	21.02			
100	PV2 BPSK	1	137	21.11	21.06	21.07	22.5	0.0	
100	PV2 BPSK	1	271	20.79	20.88	20.77			
100	PV2 BPSK	135	0	20.48	20.59	20.55		22.0	
100	PV2 BPSK	135	69	20.74	20.88	20.76	22.5	0.0	
100	PV2 BPSK	135	138	20.58	20.64	20.55			
100	PV2 BPSK	270	0	20.66	20.79	20.63	22.0	0.5	
100	QPSK	1	1	21.02	21.12	21.06			
100	QPSK	1	137	20.95	21.07	20.96		22.5	
100	QPSK	1	271	20.81	20.93	20.76	21.5	1.0	
100	QPSK	135	0	20.63	20.77	20.62			
100	QPSK	135	69	21.07	21.09	21.00	22.5	0.0	
100	QPSK	135	138	20.32	20.39	20.25			
100	QPSK	270	0	20.33	20.48	20.45		21.5	
100	16QAM	1	1	20.19	20.29	20.18	21.5	1.0	
100	64QAM	1	1	19.56	19.73	19.66			
100	256QAM	1	1	17.71	17.79	17.75		18.0	
Channel				500202	518598	539998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	20.88	20.99	20.97		22.5	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	20.87	21.02	20.99		22.5	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	20.89	21.07	20.89	22.5	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98		22.5	
60	QPSK	1	1	20.99	21.03	21.03	22.5	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.98		22.5	
50	QPSK	1	1	20.88	21.09	21.00	22.5	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670		22.5	
40	QPSK	1	1	20.91	20.96	21.02	22.5	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2714.98		22.5	
30	QPSK	1	1	20.92	20.95	21.02	22.5	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99		22.5	
20	QPSK	1	1	20.98	20.99	20.98	22.5	0.0	
Channel				500700	518598	536498			
Frequency (MHz)				2501.5	2592.99	2682.48		22.5	
15	QPSK	1	1	21.00	21.09	21.03	22.5	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685		22.5	
10	QPSK	1	1	21.00	21.00	20.96			

Part270 n77 Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	24.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	23.55	23.61	23.05			
100	PI/2 BPSK	1	137	23.44	23.56	23.03	24.0	0.0	
100	PI/2 BPSK	1	271	23.22	23.41	23.05			
100	PI/2 BPSK	135	0	23.42	23.35	23.11			23.5
100	PI/2 BPSK	135	69	23.38	23.55	23.01	24.0	0.0	
100	PI/2 BPSK	135	138	23.26	23.35	22.91	23.5	0.5	
100	PI/2 BPSK	270	0	23.49	23.43	22.98	24.0	0.0	
100	QPSK	1	1	23.54	23.65	23.08			
100	QPSK	1	137	23.49	23.53	23.10			
100	QPSK	1	271	23.35	23.43	23.03	23.0	1.0	
100	QPSK	135	0	22.66	22.65	22.95			
100	QPSK	135	69	23.51	23.58	23.01			24.0
100	QPSK	135	138	22.44	22.36	22.29	23.0	1.0	
100	QPSK	270	0	22.43	22.45	22.38	23.0	1.0	
100	16QAM	1	1	22.54	22.59	22.68			
100	64QAM	1	1	21.45	21.34	20.98			21.5
100	256QAM	1	1	19.01	19.03	19.05	19.5	4.5	
Channel				649968	650000	650334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.47	22.59	22.01	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3740.01	3740	3940.02			
80	QPSK	1	1	22.50	22.60	22.03	24.0	0.0	
Channel				649000	650000	650300	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.47	22.51	22.06	24.0	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.38	22.54	22.01	24.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.44	22.57	22.05	24.0	0.0	
Channel				648000	650000	650300	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.47	22.63	22.05	24.0	0.0	
Channel				647668	650000	650334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	22.51	22.53	22.01	24.0	0.0	
Channel				647500	650000	650500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	22.49	22.60	22.05	24.0	0.0	
Channel				647334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.50	22.55	22.05	24.0	0.0	
Channel				647168	650000	650834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.47	22.58	22.04	24.0	0.0	
Channel				647000	650000	650300	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.38	22.64	22.03	24.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	24.0	0.0	
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		23.56				
100	PI/2 BPSK	1	137		23.51		24.0	0.0	
100	PI/2 BPSK	1	271		23.36				
100	PI/2 BPSK	135	0		23.30				23.5
100	PI/2 BPSK	135	69		23.50		24.0	0.0	
100	PI/2 BPSK	135	138		23.30		23.5	0.5	
100	PI/2 BPSK	270	0		23.38				
100	QPSK	1	1		23.40				
100	QPSK	1	137		23.48		24.0	0.0	
100	QPSK	1	271		23.38				
100	QPSK	135	0		22.60				23.0
100	QPSK	135	69		23.53		24.0	0.0	
100	QPSK	135	138		22.38		23.0	1.0	
100	QPSK	270	0		22.39				
100	16QAM	1	1		22.54		23.0	1.0	
100	64QAM	1	1		21.29		21.5	2.5	
100	256QAM	1	1		18.98		19.5	4.5	
Channel				649968	650000	650334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.66	22.67	22.82	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.63	22.69	22.72	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.68	22.61	22.74	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	22.64	22.68	22.68	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.74	22.68	22.73	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.68	22.74	22.81	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	22.72	22.72	22.82	24.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	22.74	22.62	22.61	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	22.74	22.60	22.59	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	22.71	22.71	22.65	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.67	22.73	22.68	24.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	23.21	23.30	23.15		
100	PI2 BPSK	1	137	23.15	23.19	23.13	24.0	0.0
100	PI2 BPSK	1	271	23.05	23.15	23.00		
100	PI2 BPSK	135	0	22.81	22.76	22.85	23.5	0.5
100	PI2 BPSK	135	69	23.18	23.23	23.07	24.0	0.0
100	PI2 BPSK	135	138	22.52	22.88	22.58	23.5	0.5
100	PI2 BPSK	270	0	22.58	22.73	22.62		
100	QPSK	1	1	23.25	23.33	23.18		
100	QPSK	1	137	23.09	23.25	23.12	24.0	0.0
100	QPSK	1	271	22.97	23.13	23.08		
100	QPSK	135	0	22.20	22.31	22.21	23.0	1.0
100	QPSK	135	69	23.22	23.25	22.92	24.0	0.0
100	QPSK	135	138	22.83	22.18	22.08	23.0	1.0
100	QPSK	270	0	22.28	22.31	21.98		
100	16QAM	1	1	22.24	22.38	22.27	23.0	1.0
100	64QAM	1	1	20.68	20.83	20.65	21.5	2.5
100	256QAM	1	1	18.45	18.59	18.56	19.5	4.5
Channel				645000	650000	642334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	23.13	23.18	23.07	24.0	0.0
Channel				649334	650000	662698	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	23.22	23.18	22.96	24.0	0.0
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	23.25	23.20	22.95	24.0	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	23.22	23.29	22.97	24.0	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	23.23	23.28	23.02	24.0	0.0
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	23.20	23.18	22.95	24.0	0.0
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3953.01		
30	QPSK	1	1	23.15	23.20	23.03	24.0	0.0
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	23.12	23.17	23.00	24.0	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	23.21	23.28	23.00	24.0	0.0
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	23.21	23.22	23.05	24.0	0.0
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	23.25	23.21	23.04	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	25.27	25.23	24.56		
100	PI2 BPSK	1	137	25.16	25.15	24.54	26.5	0.0
100	PI2 BPSK	1	271	25.17	25.27	24.97		
100	PI2 BPSK	135	0	24.81	24.84	24.30	26.0	0.5
100	PI2 BPSK	135	69	25.25	25.21	24.57	26.5	0.0
100	PI2 BPSK	135	138	24.63	24.63	24.06	26.0	0.5
100	PI2 BPSK	270	0	24.72	24.77	24.24		
100	QPSK	1	1	25.28	25.35	24.62		
100	QPSK	1	137	25.33	25.26	24.53	26.5	0.0
100	QPSK	1	271	25.09	25.13	24.51		
100	QPSK	135	0	24.41	24.31	23.71	25.5	1.0
100	QPSK	135	69	25.22	25.30	24.62	26.5	0.0
100	QPSK	135	138	24.17	24.11	24.25	25.5	1.0
100	QPSK	270	0	24.23	24.32	23.75		
100	16QAM	1	1	24.44	24.48	23.93	25.5	1.0
100	64QAM	1	1	22.81	22.74	22.17	24.0	2.5
100	256QAM	1	1	20.53	20.56	20.11	22.0	4.5
Channel				649000	650000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	25.20	25.12	24.52	26.5	0.0
Channel				649334	650000	662698	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	25.23	25.12	24.58	26.5	0.0
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	25.17	25.13	24.53	26.5	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	25.15	25.08	24.52	26.5	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	25.18	25.13	24.57	26.5	0.0
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	25.23	25.09	24.52	26.5	0.0
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3953.01		
30	QPSK	1	1	25.27	25.20	24.52	26.5	0.0
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	25.21	25.14	24.59	26.5	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	25.11	25.16	24.58	26.5	0.0
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	25.14	25.19	24.54	26.5	0.0
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	25.27	25.19	24.59	26.5	0.0

Part270 n78 Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		23.39		24.0	0.0	
100	PI/2 BPSK	1	137		23.34				
100	PI/2 BPSK	1	271		23.26				
100	PI/2 BPSK	135	0		22.84				
100	PI/2 BPSK	135	69		23.23		24.0	0.0	
100	PI/2 BPSK	135	138		22.80		23.5	0.5	
100	PI/2 BPSK	270	0		22.82		24.0	0.0	
100	QPSK	1	1		23.43				
100	QPSK	1	137		23.40				
100	QPSK	1	271		23.24				
100	QPSK	135	0		22.41		23.0	1.0	
100	QPSK	135	69		23.38		24.0	0.0	
100	QPSK	135	138		22.28		23.0	1.0	
100	QPSK	270	0		22.30				
100	16QAM	1	1		22.24		23.0	1.0	
100	64QAM	1	1		21.24		21.5	2.5	
100	256QAM	1	1		18.69		19.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)		
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		23.31	23.29	23.25	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)		
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		23.28	23.28	23.41	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)		
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		23.33	23.37	23.34	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)		
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		23.32	23.32	23.36	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)		
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		23.30	23.38	23.36	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)		
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		23.30	23.35	23.29	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)		
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		23.30	23.32	23.40	24.0	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)		
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1		23.33	23.35	23.38	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)		
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		23.39	23.38	23.29	24.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)		
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		23.27	23.28	23.32	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)		
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		23.35	23.40	23.34	24.0	0.0

Part270 n78 PC2 Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		25.81		26.5		0.0
100	PI2 BPSK	1	137		25.73				
100	PI2 BPSK	1	271		25.23				
100	PI2 BPSK	135	0		25.38				
100	PI2 BPSK	135	69		25.84		26.0	0.5	0.0
100	PI2 BPSK	135	138		25.37		26.0	0.5	
100	PI2 BPSK	270	0		25.41		26.5		0.0
100	QPSK	1	1		25.86				
100	QPSK	1	137		25.59				
100	QPSK	1	271		25.21				
100	QPSK	135	0		25.31		25.5	1.0	
100	QPSK	135	69		25.88		26.5	0.0	
100	QPSK	135	138		25.15		25.5	1.0	
100	QPSK	270	0		25.32				
100	16QAM	1	1		24.97		25.5	1.0	
100	64QAM	1	1		23.53		24.0	2.5	
100	256QAM	1	1		21.52		22.0	4.5	
Channel				649668	650000	650334	Tune-up limit		
Frequency (MHz)				3745.02	3750	3755.01	(dBm)		
90	QPSK	1	1		25.84	25.85	25.93	26.5	0.0
Channel				649334	650000	650668	Tune-up limit		
Frequency (MHz)				3740.01	3750	3760.02	(dBm)		
80	QPSK	1	1		25.91	25.79	25.30	26.5	0.0
Channel				649000	650000	651000	Tune-up limit		
Frequency (MHz)				3735	3750	3765	(dBm)		
70	QPSK	1	1		25.91	25.82	25.84	26.5	0.0
Channel				648668	650000	651334	Tune-up limit		
Frequency (MHz)				3730.02	3750	3770.01	(dBm)		
60	QPSK	1	1		25.90	25.88	25.87	26.5	0.0
Channel				648334	650000	651668	Tune-up limit		
Frequency (MHz)				3725.01	3750	3775.02	(dBm)		
50	QPSK	1	1		25.80	25.91	25.88	26.5	0.0
Channel				648000	650000	652000	Tune-up limit		
Frequency (MHz)				3720	3750	3780	(dBm)		
40	QPSK	1	1		25.93	25.82	25.91	26.5	0.0
Channel				647668	650000	652334	Tune-up limit		
Frequency (MHz)				3715.02	3750	3765.01	(dBm)		
30	QPSK	1	1		25.92	25.91	25.81	26.5	0.0
Channel				647500	650000	652500	Tune-up limit		
Frequency (MHz)				3712.5	3750	3787.5	(dBm)		
25	QPSK	1	1		25.81	25.82	25.85	26.5	0.0
Channel				647334	650000	652668	Tune-up limit		
Frequency (MHz)				3710.01	3750	3790.02	(dBm)		
20	QPSK	1	1		25.85	25.92	25.89	26.5	0.0
Channel				647168	650000	652834	Tune-up limit		
Frequency (MHz)				3707.52	3750	3792.51	(dBm)		
15	QPSK	1	1		25.79	25.93	25.87	26.5	0.0
Channel				647000	650000	653000	Tune-up limit		
Frequency (MHz)				3705	3750	3795	(dBm)		
10	QPSK	1	1		25.93	25.88	25.81	26.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.35	22.41	22.24		
100	PI2 BPSK	1	137	22.30	22.37	22.33	24.0	0.0
100	PI2 BPSK	1	271	22.24	22.27	22.12		
100	PI2 BPSK	135	0	22.06	22.04	21.92	23.5	0.5
100	PI2 BPSK	135	69	22.21	22.36	22.22	24.0	0.0
100	PI2 BPSK	135	138	21.69	21.67	21.55	23.5	0.5
100	PI2 BPSK	270	0	21.76	21.90	21.73		
100	QPSK	1	1	22.41	22.47	22.41		
100	QPSK	1	137	22.27	22.36	22.17	24.0	0.0
100	QPSK	1	271	22.11	22.30	22.28		
100	QPSK	135	0	21.53	21.50	21.45	23.0	1.0
100	QPSK	135	69	22.35	22.41	22.36	24.0	0.0
100	QPSK	135	138	21.36	21.36	21.21	23.0	1.0
100	QPSK	270	0	21.35	22.12	21.40		
100	16QAM	1	1	21.43	21.60	21.47	23.0	1.0
100	64QAM	1	1	20.16	20.27	20.09	21.5	2.5
100	256QAM	1	1	17.88	17.93	17.78	19.5	4.5
Channel				645000	650000	642334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.40	22.39	22.35	24.0	0.0
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.33	22.39	22.30	24.0	0.0
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.29	22.36	22.31	24.0	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	22.32	22.39	22.27	24.0	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.41	22.40	22.32	24.0	0.0
Channel				645000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3990		
40	QPSK	1	1	22.35	22.33	22.31	24.0	0.0
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3993.01		
30	QPSK	1	1	22.26	22.42	22.25	24.0	0.0
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3987.5		
25	QPSK	1	1	22.27	22.37	22.27	24.0	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3990.02		
20	QPSK	1	1	22.34	22.37	22.25	24.0	0.0
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	22.40	22.27	22.30	24.0	0.0
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.38	22.42	22.24	24.0	0.0

Part270 n77 PC2 Ant9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	25.43	25.42	25.33		
100	PI2 BPSK	1	137	25.32	25.37	25.34	27.0	0.0
100	PI2 BPSK	1	271	25.22	25.31	25.17		
100	PI2 BPSK	135	0	24.87	24.99	24.97	26.5	0.5
100	PI2 BPSK	135	69	25.33	25.42	25.37	27.0	0.0
100	PI2 BPSK	135	138	24.81	24.98	24.87	26.5	0.5
100	PI2 BPSK	270	0	24.87	24.97	24.83		
100	QPSK	1	1	25.45	25.46	25.41		
100	QPSK	1	137	25.28	25.41	25.32	27.0	0.0
100	QPSK	1	271	25.29	25.37	25.27		
100	QPSK	135	0	24.38	24.40	24.28	26.0	1.0
100	QPSK	135	69	25.43	25.44	25.41	27.0	0.0
100	QPSK	135	138	24.31	24.32	24.31	26.0	1.0
100	QPSK	270	0	24.38	24.44	24.36		
100	16QAM	1	1	24.41	24.62	24.43	26.0	1.0
100	64QAM	1	1	23.33	23.29	23.20	24.5	2.5
100	256QAM	1	1	20.88	20.91	20.80	22.5	4.5
Channel				645000	650000	642334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	25.40	25.44	25.22	27.0	0.0
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	25.33	25.43	25.19	27.0	0.0
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	25.42	25.39	25.20	27.0	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	25.31	25.40	25.22	27.0	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	25.31	25.33	25.28	27.0	0.0
Channel				645000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3990		
40	QPSK	1	1	25.36	25.36	25.29	27.0	0.0
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3993.01		
30	QPSK	1	1	25.32	25.35	25.23	27.0	0.0
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3987.5		
25	QPSK	1	1	25.26	25.37	25.18	27.0	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3990.02		
20	QPSK	1	1	25.26	25.44	25.21	27.0	0.0
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	25.40	25.38	25.29	27.0	0.0
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	25.40	25.39	25.29	27.0	0.0

Part270 n78 Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		23.52		24.0	0.0	
100	PI2 BPSK	1	137		23.42				
100	PI2 BPSK	1	271		23.04				
100	PI2 BPSK	135	0		23.09				
100	PI2 BPSK	135	69		23.48		24.0	0.0	
100	PI2 BPSK	135	138		22.73		23.5	0.5	
100	PI2 BPSK	270	0		22.70		24.0	0.0	
100	QPSK	1	1		23.72				
100	QPSK	1	137		23.37				
100	QPSK	1	271		23.05				
100	QPSK	135	0		22.64		23.0	1.0	
100	QPSK	135	69		23.57		24.0	0.0	
100	QPSK	135	138		22.27		23.0	1.0	
100	QPSK	270	0		22.44		23.0	1.0	
100	16QAM	1	1		22.73				
100	64QAM	1	1		21.27				
100	256QAM	1	1		18.92		19.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	23.54	23.60	23.50	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02 <th></th> <th colspan="2"></th>			
80	QPSK	1	1	23.51	23.59	23.65	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765 <th></th> <th colspan="2"></th>			
70	QPSK	1	1	23.65	23.56	23.53	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	23.48	23.61	23.65	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	23.57	23.53	23.61	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	23.66	23.59	23.53	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1	23.51	23.51	23.53	24.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	23.56	23.48	23.58	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	23.58	23.50	23.58	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	23.63	23.53	23.55	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	23.66	23.56	23.54	24.0	0.0	

Part270 n78 PC2 Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		26.63		27.0	0.0	
100	PI2 BPSK	1	137		26.60				
100	PI2 BPSK	1	271		26.50				
100	PI2 BPSK	135	0		26.18				
100	PI2 BPSK	135	69		26.66		26.5	0.5	
100	PI2 BPSK	135	138		26.09		26.5	0.5	
100	PI2 BPSK	270	0		26.10		27.0	0.0	
100	QPSK	1	1		26.75				
100	QPSK	1	137		26.63				
100	QPSK	1	271		26.54				
100	QPSK	135	0		25.68		26.0	1.0	
100	QPSK	135	69		26.70		27.0	0.0	
100	QPSK	135	138		25.57		26.0	1.0	
100	QPSK	270	0		25.09		26.0	1.0	
100	16QAM	1	1		25.82				
100	64QAM	1	1		24.13				
100	256QAM	1	1		21.89		22.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)		
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	26.56	26.63	26.66	27.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)		
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	26.60	26.71	26.71	27.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)		
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	26.63	26.61	26.57	27.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)		
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	26.58	26.72	26.68	27.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)		
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	26.61	26.68	26.74	27.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)		
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	26.57	26.55	26.56	27.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)		
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1	26.72	26.70	26.69	27.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)		
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	26.55	26.56	26.58	27.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)		
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	26.62	26.66	26.58	27.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)		
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	26.56	26.67	26.60	27.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)		
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	26.63	26.71	26.73	27.0	0.0	

Reduced Power Mode for DS12 Standalone

n5 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800	24.0	0.0	
Frequency (MHz)				834	836.5	838			
20	PV2 BPSK	1	1	23.04	23.13	22.99	24.0	0.0	
20	PV2 BPSK	1	53	22.90	23.03	22.93			
20	PV2 BPSK	1	104	23.00	23.10	22.97	23.5	0.5	
20	PV2 BPSK	50	0	22.56	22.64	22.55			
20	PV2 BPSK	50	28	22.82	22.98	22.85	24.0	0.0	
20	PV2 BPSK	50	58	22.57	22.70	22.53	23.5	0.5	
20	PV2 BPSK	100	0	22.61	22.73	22.58			
20	QPSK	1	1	23.16	23.19	23.02	24.0	0.0	
20	QPSK	1	53	22.86	23.06	22.91			
20	QPSK	1	104	23.09	23.12	23.04	23.0	1.0	
20	QPSK	50	0	22.15	22.17	22.13			
20	QPSK	50	28	23.11	23.14	23.08	24.0	0.0	
20	QPSK	50	58	22.12	22.22	22.06	23.0	1.0	
20	QPSK	100	0	22.26	22.31	22.24			
20	16QAM	1	1	22.02	22.05	21.96	23.0	1.0	
20	64QAM	1	1	20.87	21.02	20.85	21.5	2.5	
20	256QAM	1	1	18.39	18.49	18.37	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.03	23.10	22.97	24.0	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.06	23.02	22.95	24.0	0.0	
Channel				103300	103700	103900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.09	23.04	22.85	24.0	0.0	

n41 Ant0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Middle Ch./Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				500200	518598	528900	24.0	0.0			
Frequency (MHz)				2548.01	2592.99	2640					
100	PV2 BPSK	1	1	23.06	23.15	23.12					
100	PV2 BPSK	1	137	23.00	23.07	22.97					
100	PV2 BPSK	1	271	23.05	23.13	23.05	23.5	0.5			
100	PV2 BPSK	135	0	22.57	22.71	22.65					
100	PV2 BPSK	135	69	22.87	23.04	22.94					
100	PV2 BPSK	135	138	22.56	22.68	22.51					
100	PV2 BPSK	270	0	22.58	22.73	22.60	23.5	0.5			
100	QPSK	1	1	23.09	23.18	23.05					
100	QPSK	1	137	22.88	23.06	22.96					
100	QPSK	1	271	23.00	23.12	23.09					
100	QPSK	135	0	22.09	22.18	22.07	23.0	1.0			
100	QPSK	135	69	22.99	23.13	23.02					
100	QPSK	135	138	22.11	22.18	22.13					
100	QPSK	270	0	22.14	22.21	22.11					
100	64QAM	1	1	21.86	22.00	21.96	23.0	1.0			
100	64QAM	1	1	20.57	20.68	20.62					
100	256QAM	1	1	18.36	18.54	18.37					
Channel				500200	518598	528996	19.5	4.5			
Frequency (MHz)				2541	2592.99	2644.98	Tune-up limit (dBm)				
90	QPSK	1	1	23.05	23.07	22.99	24.0	0.0			
Channel				507204	518598	529998					
Frequency (MHz)				2538.02	2592.99	2643.99					
80	QPSK	1	1	22.98	23.02	22.94		24.0			
Channel				505202	518598	531000	Tune-up limit (dBm)				
Frequency (MHz)				2531.01	2592.99	2655	Tune-up limit (dBm)				
70	QPSK	1	1	22.93	23.03	22.98	24.0	0.0			
Channel				505200	518598	531996					
Frequency (MHz)				2528	2592.99	2659.98					
60	QPSK	1	1	22.92	23.14	23.02		24.0			
Channel				504204	518598	532998	Tune-up limit (dBm)				
Frequency (MHz)				2521.02	2592.99	2664.99	Tune-up limit (dBm)				
50	QPSK	1	1	22.93	23.06	22.85	24.0	0.0			
Channel				503202	518598	534000					
Frequency (MHz)				2516.01	2592.99	2670					
40	QPSK	1	1	23.07	23.11	22.89		24.0			
Channel				502200	518598	534996	Tune-up limit (dBm)				
Frequency (MHz)				2511	2592.99	2674.98	Tune-up limit (dBm)				
30	QPSK	1	1	22.95	23.10	22.85	24.0	0.0			
Channel				501204	518598	535998					
Frequency (MHz)				2506.02	2592.99	2679.99					
20	QPSK	1	1	22.94	23.04	22.99		24.0			
Channel				500700	518598	536496	Tune-up limit (dBm)				
Frequency (MHz)				2503.5	2592.99	2682.48	Tune-up limit (dBm)				
15	QPSK	1	1	22.98	23.16	22.99	24.0	0.0			
Channel				500202	518598	537000					
Frequency (MHz)				2501.01	2592.99	2685					
10	QPSK	1	1	23.07	23.13	22.90		24.0			



n2 DSI2 Standalone Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PQ2 BPSK	1	1	18.03	18.06	17.99	18.9	0.0	
20	PQ2 BPSK	1	53	17.86	17.91	17.73			
20	PQ2 BPSK	1	104	17.80	17.92	17.83			
20	PQ2 BPSK	50	0	17.84	17.96	17.85	18.9	0.0	
20	PQ2 BPSK	50	28	17.80	17.97	17.92	18.9	0.0	
20	PQ2 BPSK	50	58	17.75	17.90	17.81	18.9	0.0	
20	PQ2 BPSK	100	0	17.86	17.96	17.81	18.9	0.0	
20	QPSK	1	1	17.97	18.09	18.02			
20	QPSK	1	53	17.85	17.94	17.84			
20	QPSK	1	104	17.90	17.98	17.86	18.9	0.0	
20	QPSK	50	0	17.80	17.97	17.79			
20	QPSK	50	28	17.92	18.01	17.88			
20	QPSK	50	58	17.76	17.86	17.81	18.9	0.0	
20	QPSK	100	0	17.90	17.93	17.90	18.9	0.0	
20	16QAM	1	1	17.69	17.87	17.73			
20	64QAM	1	1	17.82	17.90	17.88			
20	256QAM	1	1	17.79	17.84	17.70	18.9	0.0	
Channel				1867.5	1880	1902.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	17.84	17.99	17.98	18.9	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1900	1905	(dB)		
10	QPSK	1	1	17.84	17.90	17.91	18.9	0.0	
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5	(dBm)		
5	QPSK	1	1	17.94	18.07	17.96	18.9	0.0	

n7 DSI2 Standalone Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2620	2635	2650			
40	PQ2 BPSK	1	1	15.91	15.98	15.83	16.9	0.0	
40	PQ2 BPSK	1	108	15.84	15.84	15.82			
40	PQ2 BPSK	1	214	15.85	15.82	15.89			
40	PQ2 BPSK	108	0	15.71	15.78	15.58	16.9	0.0	
40	PQ2 BPSK	108	54	15.61	15.66	15.46	16.9	0.0	
40	PQ2 BPSK	108	108	15.65	15.83	15.71	16.9	0.0	
40	PQ2 BPSK	216	0	15.62	15.85	15.81	16.9	0.0	
40	QPSK	1	1	15.84	16.07	16.03			
40	QPSK	1	108	15.84	15.80	15.57			
40	QPSK	1	214	15.64	15.84	15.71	16.9	0.0	
40	QPSK	108	0	15.79	15.88	15.79			
40	QPSK	108	54	15.74	15.90	15.89			
40	QPSK	108	108	15.85	15.89	15.82	16.9	0.0	
40	QPSK	216	0	15.74	15.82	15.75	16.9	0.0	
40	16QAM	1	1	15.53	15.71	15.63			
40	64QAM	1	1	15.78	15.78	15.68			
40	256QAM	1	1	15.72	15.71	15.61	16.9	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2615	2635	2655	(dBm)		
30	QPSK	1	1	15.78	15.98	15.87	16.9	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2612.5	2635	2657.5	(dB)		
25	QPSK	1	1	15.80	15.99	15.80	16.9	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2610	2635	2660	(dBm)		
20	PQ2 BPSK	1	1	15.75	15.85	15.83	16.9	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2607.5	2635	2662.5	(dB)		
15	QPSK	1	1	15.75	15.86	15.85	16.9	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2605	2635	2665	(dBm)		
10	QPSK	1	1	15.63	15.90	15.70	16.9	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.5	2635	2667.5	(dBm)		
5	QPSK	1	1	15.76	15.93	15.95	16.9	0.0	

n66 DSI2 Standalone Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	348000	350000			
Frequency (MHz)				1730	1745	1760			
40	PQ2 BPSK	1	1	17.55	17.51	17.46	18.6	0.0	
40	PQ2 BPSK	1	108	17.32	17.44	17.25			
40	PQ2 BPSK	1	214	17.14	17.36	17.26			
40	PQ2 BPSK	108	0	17.27	17.35	17.37	18.6	0.0	
40	PQ2 BPSK	108	54	17.23	17.34	17.33	18.6	0.0	
40	PQ2 BPSK	108	108	17.16	17.20	17.14	18.6	0.0	
40	PQ2 BPSK	216	0	17.17	17.28	17.28	18.6	0.0	
40	QPSK	1	1	17.48	17.61	17.52			
40	QPSK	1	108	17.41	17.47	17.41			
40	QPSK	1	214	17.26	17.47	17.27	18.6	0.0	
40	QPSK	108	0	17.38	17.44	17.22			
40	QPSK	108	54	17.48	17.57	17.32			
40	QPSK	108	108	17.41	17.39	17.37	18.6	0.0	
40	QPSK	216	0	17.34	17.47	17.33	18.6	0.0	
40	16QAM	1	1	17.32	17.51	17.31			
40	64QAM	1	1	17.24	17.44	17.34			
40	256QAM	1	1	17.30	17.42	17.31	18.6	0.0	
Channel				345000	348000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	(dBm)		
30	QPSK	1	1	17.06	17.08	16.81	18.6	0.0	
Channel				344500	348000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5	(dB)		
25	QPSK	1	1	17.20	16.97	16.91	18.6	0.0	
Channel				344000	348000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	(dB)		
20	QPSK	1	1	16.81	17.06	16.94	18.6	0.0	
Channel				343500	348000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)		
15	QPSK	1	1	16.89	16.98	16.96	18.6	0.0	
Channel				343000	348000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	(dBm)		
10	QPSK	1	1	16.94	16.98	16.80	18.6	0.0	
Channel				342500	348000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)		
5	QPSK	1	1	16.96	17.01	16.90	18.6	0.0	

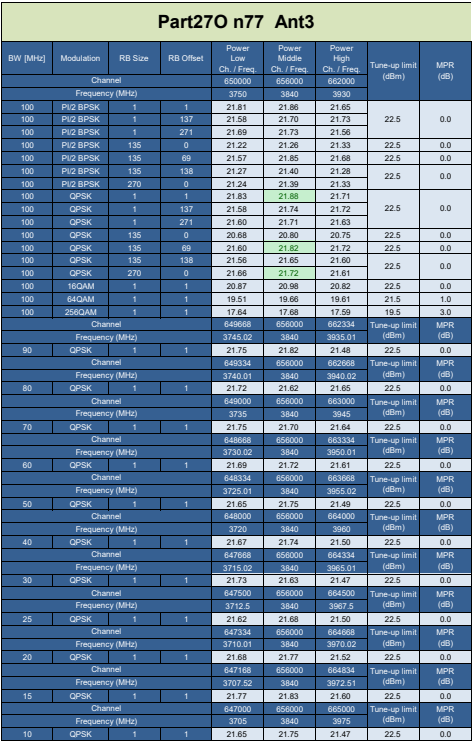
n38 Default Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PV2 BPSK	1	1	16.05	16.24	16.08	16.7	0.0	
40	PV2 BPSK	1	53	16.01	16.09	16.09			
40	PV2 BPSK	1	104	16.05	15.99	16.02			
40	PV2 BPSK	50	0	15.51	15.81	15.47			
40	PV2 BPSK	50	28	16.02	16.14	16.02	16.7	0.0	
40	PV2 BPSK	50	56	15.39	15.40	15.27	16.7	0.0	
40	PV2 BPSK	100	0	15.26	15.47	15.48	16.7	0.0	
40	QPSK	1	1	16.13	16.25	16.19			
40	QPSK	1	53	16.12	16.08	16.05			
40	QPSK	1	104	15.88	16.17	16.03			
40	QPSK	50	0	14.99	15.08	14.88	16.7	0.0	
40	QPSK	50	28	16.08	16.15	16.00	16.7	0.0	
40	QPSK	50	56	14.89	14.93	14.76	16.7	0.0	
40	QPSK	100	0	15.02	15.80	14.88	16.7	0.0	
40	16QAM	1	1	16.10	16.12	16.02			
40	64QAM	1	1	14.81	14.95	14.77			
40	256QAM	1	1	15.05	14.97	15.01			
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	16.09	16.06	15.96	16.7	0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2552.52	2595	2607.48			
25	QPSK	1	1	16.17	16.03	16.02	16.7	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	16.10	16.08	16.10	16.7	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	16.04	16.24	16.09	16.7	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	16.09	16.06	16.05	16.7	0.0	

n41 DS12 Standalone Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518998	520000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	15.97	15.99	15.91	16.7	0.0	
100	PI2 BPSK	1	137	15.80	15.94	15.69			
100	PI2 BPSK	1	271	15.96	15.88	15.87			
100	PI2 BPSK	135	0	15.83	15.91	15.83			
100	PI2 BPSK	135	69	15.86	15.90	15.87	16.7	0.0	
100	PI2 BPSK	135	138	15.70	15.84	15.77	16.7	0.0	
100	PI2 BPSK	270	0	15.84	15.89	15.82	16.7	0.0	
100	QPSK	1	1	15.98	15.98	15.91			
100	QPSK	1	137	15.92	15.89	15.80			
100	QPSK	1	271	15.85	15.88	15.91			
100	QPSK	135	0	15.87	15.93	15.78	16.7	0.0	
100	QPSK	135	69	15.92	15.96	15.85	16.7	0.0	
100	QPSK	135	138	15.83	15.81	15.74	16.7	0.0	
100	QPSK	270	0	15.90	15.94	15.88	16.7	0.0	
100	16QAM	1	1	15.77	15.83	15.74			
100	64QAM	1	1	15.79	15.88	15.85			
100	256QAM	1	1	15.86	15.87	15.75			
Channel				506200	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	15.89	16.01	15.92	16.7	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	15.81	16.03	15.97	16.7	0.0	
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	15.80	15.94	15.92	16.7	0.0	
Channel				505200	518998	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	15.93	16.04	15.94	16.7	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	15.81	16.01	15.94	16.7	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	15.82	15.95	15.94	16.7	0.0	
Channel				502200	518998	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	15.92	15.93	15.97	16.7	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	15.89	16.07	15.89	16.7	0.0	
Channel				500700	518998	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2499.15	2592.99	2684.48			
15	QPSK	1	1	15.82	15.93	15.94	16.7	0.0	
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	15.78	16.00	15.96	16.7	0.0	

n7 Ant2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	510000	24.0	0.0
Frequency (MHz)				2620	2635	2650		
40	PI2 BPSK	1	1	22.22	22.26	22.20	24.0	0.0
40	PI2 BPSK	1	108	22.13	22.23	22.11		
40	PI2 BPSK	1	214	22.15	22.21	22.12	23.5	0.5
40	PI2 BPSK	108	0	21.58	21.72	21.55		
40	PI2 BPSK	108	54	22.01	22.08	22.01	24.0	0.0
40	PI2 BPSK	108	108	21.65	21.76	21.67	23.5	0.5
40	PI2 BPSK	216	0	21.68	21.79	21.69		
40	QPSK	1	1	22.17	22.32	22.22	24.0	0.0
40	QPSK	1	108	22.18	22.24	22.16		
40	QPSK	1	214	22.10	22.27	22.10	23.0	1.0
40	QPSK	108	0	21.06	21.15	21.03		
40	QPSK	108	54	22.06	22.19	22.15	24.0	0.0
40	QPSK	108	108	21.16	21.26	21.22	23.0	1.0
40	QPSK	216	0	21.11	21.33	21.23		
40	16QAM	1	1	21.12	21.17	21.14	23.0	1.0
40	64QAM	1	1	19.59	19.62	19.65	21.5	2.5
40	256QAM	1	1	17.68	17.68	17.55	19.5	4.5
Channel				533000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2615	2635	2655		
30	QPSK	1	1	22.02	22.14	22.09	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2635	2657.5		
25	QPSK	1	1	22.09	22.27	22.10	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2610	2635	2660		
20	PI2 BPSK	1	1	22.12	22.23	22.04	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2607.5	2635	2662.5		
15	QPSK	1	1	22.07	22.15	22.07	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2605	2635	2665		
10	QPSK	1	1	22.11	22.24	22.17	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2635	2667.5		
5	QPSK	1	1	22.15	22.22	22.19	24.0	0.0

n38 Ant2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996	24.0	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	22.20	22.24	22.11		
40	PI/2 BPSK	1	53	22.10	22.18	22.08		
40	PI/2 BPSK	1	104	22.07	22.11	22.07	23.5	0.5
40	PI/2 BPSK	50	0	21.55	21.85	21.60		
40	PI/2 BPSK	50	28	22.02	22.01	22.07	24.0	0.0
40	PI/2 BPSK	50	56	22.47	22.44	22.35	23.5	0.5
40	PI/2 BPSK	100	0	22.45	22.57	22.50		
40	QPSK	1	1	22.26	22.86	22.14	24.0	0.0
40	QPSK	1	53	22.04	22.16	22.04		
40	QPSK	1	104	22.04	22.12	22.05		
40	QPSK	50	0	21.50	21.12	21.50		
40	QPSK	50	28	22.17	22.21	22.10	24.0	0.0
40	QPSK	80	56	21.50	21.04	21.60	23.0	1.0
40	QPSK	100	0	21.05	21.11	21.08		
40	16QAM	1	1	21.16	21.30	21.16	23.0	1.0
40	64QAM	1	1	19.97	20.08	19.89	21.5	2.5
40	256QAM	1	1	18.01	18.08	18.09	19.5	4.5
Channel				517002	518000	518998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.20	22.22	22.03	24.0	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2552.52	2595	2607.48		
25	QPSK	1	1	22.10	22.20	22.01	24.0	0.0
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.18	22.15	22.07	24.0	0.0
Channel				515502	519000	524998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	22.19	22.12	22.09	24.0	0.0
Channel				515004	519000	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	22.08	22.10	22.11	24.0	0.0

n41 Ant2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				506002	518998	529000	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.86	22.94	22.91		
100	PI/2 BPSK	1	137	22.90	22.96	22.91		
100	PI/2 BPSK	1	271	22.77	22.91	22.79	23.5	0.5
100	PI/2 BPSK	135	0	22.47	22.55	22.41		
100	PI/2 BPSK	135	69	22.93	22.98	22.85	24.0	0.0
100	PI/2 BPSK	135	138	22.40	22.49	22.44	23.5	0.5
100	PI/2 BPSK	270	0	22.36	22.53	22.45		
100	QPSK	1	1	22.96	23.03	22.99	24.0	0.0
100	QPSK	1	137	22.87	23.00	22.85		
100	QPSK	1	271	22.82	22.97	22.82		
100	QPSK	135	0	22.06	22.11	22.06		
100	QPSK	135	69	22.93	22.97	22.91	24.0	0.0
100	QPSK	135	138	21.96	22.01	21.92	23.0	1.0
100	QPSK	270	0	21.98	22.03	21.94		
100	16QAM	1	1	21.91	22.08	21.97	23.0	1.0
100	64QAM	1	1	20.48	20.61	20.56	21.5	2.5
100	256QAM	1	1	18.48	18.52	18.46	19.5	4.5
Channel				506000	518998	529000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.92	22.96	22.88	24.0	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	22.90	22.89	22.96	24.0	0.0
Channel				506002	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.90	22.86	22.92	24.0	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.98		
60	QPSK	1	1	22.90	22.99	22.82	24.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.94	22.94	22.87	24.0	0.0
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.88	22.91	22.86	24.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.89	22.88	22.86	24.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.93	22.97	22.91	24.0	0.0
Channel				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2499.15	2592.99	2684.48		
15	QPSK	1	1	22.82	22.85	22.88	24.0	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.88	22.90	22.81	24.0	0.0



Part270 n77 PC2 Ant3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dbm)	MPR (db)
Channel								
Frequency (MHz)				68000	66600	66600		
				3750	3840	3930		
100	PV2 BPSK	1	1	24.99	25.12	25.10		
100	PV2 BPSK	1	137	24.94	25.04	25.08	25.5	0.0
100	PV2 BPSK	1	271	24.90	25.02	24.92		
100	PV2 BPSK	135	0	25.02	25.09	25.09	25.5	0.0
100	PV2 BPSK	135	69	24.90	25.00	25.00	25.5	0.0
100	PV2 BPSK	135	138	24.91	25.00	24.94	25.5	0.0
100	PV2 BPSK	270	0	24.86	25.07	25.02		
100	QPSK	1	1	25.07	25.25	25.15		
100	QPSK	1	137	24.99	25.08	25.09	25.5	0.0
100	QPSK	1	271	24.96	25.08	24.97		
100	QPSK	135	0	25.11	25.17	25.13	25.5	0.0
100	QPSK	135	69	24.97	25.18	25.05	25.5	0.0
100	QPSK	135	138	24.93	25.07	24.98	25.5	0.0
100	QPSK	270	0	24.92	25.05	25.05	25.5	0.0
100	16QAM	1	1	25.09	25.28	25.10	25.5	0.0
100	64QAM	1	1	24.05	24.19	24.12	24.5	1.0
100	256QAM	1	1	22.05	22.19	22.14	22.5	3.0
Channel								
Frequency (MHz)				67668	65600	66234	Turn-up limit (dbm)	MPR (db)
90	QPSK	1	1	25.65	25.09	25.08	25.5	0.0
Channel								
Frequency (MHz)				68334	66600	66268	Turn-up limit (dbm)	MPR (db)
80	QPSK	1	1	24.92	25.10	24.97	25.5	0.0
Channel								
Frequency (MHz)				68500	66600	66300	Turn-up limit (dbm)	MPR (db)
70	QPSK	1	1	24.96	25.15	25.08	25.5	0.0
70	QPSK	1	1	68468	65600	66334	Turn-up limit (dbm)	MPR (db)
60	QPSK	1	1	3780.02	3840	3965.01	25.5	0.0
60	QPSK	1	1	24.92	25.02	24.94	25.5	0.0
Channel								
Frequency (MHz)				68334	65600	66368	Turn-up limit (dbm)	MPR (db)
50	QPSK	1	1	3725.01	3840	3955.02	25.5	0.0
Channel								
Frequency (MHz)				68100	65600	66500	Turn-up limit (dbm)	MPR (db)
40	QPSK	1	1	3720	3840	3950	25.5	0.0
40	QPSK	1	1	24.89	25.12	25.00	25.5	0.0
Channel								
Frequency (MHz)				68768	65600	66434	Turn-up limit (dbm)	MPR (db)
30	QPSK	1	1	3715.02	3840	3925.01	25.5	0.0
30	QPSK	1	1	24.83	25.00	24.98	25.5	0.0
Channel								
Frequency (MHz)				68500	65600	66450	Turn-up limit (dbm)	MPR (db)
20	QPSK	1	1	3712.5	3840	3967.5	25.5	0.0
20	QPSK	1	1	24.89	25.05	24.99	25.5	0.0
Channel								
Frequency (MHz)				68734	65600	66468	Turn-up limit (dbm)	MPR (db)
10	QPSK	1	1	3714.01	3840	3974.02	25.5	0.0
20	QPSK	1	1	25.07	25.09	25.08	25.5	0.0
Channel								
Frequency (MHz)				68768	65600	664834	Turn-up limit (dbm)	MPR (db)
15	QPSK	1	1	3707.52	3840	3972.51	25.5	0.0
15	QPSK	1	1	24.98	25.12	25.09	25.5	0.0
Channel								
Frequency (MHz)				68500	65600	66450	Turn-up limit (dbm)	MPR (db)
10	QPSK	1	1	3705	3840	3975	25.5	0.0
10	QPSK	1	1	24.90	25.03	24.90	25.5	0.0

Part270 n78 Ant3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)
Channel				68000	66000	66000		
Frequency (MHz)				3760	3750	3750		
100	PV2 BPSK	1	1		21.40			
100	PV2 BPSK	1	137		21.50		22.5	0.0
100	QPSK	1	271		21.43			
100	PV2 BPSK	138	0		21.51		22.0	0.5
100	PV2 BPSK	135	69		21.43		22.5	0.0
100	PV2 BPSK	135	138		21.12		22.0	0.5
100	PV2 BPSK	270	0		21.20			
100	QPSK	1	1		21.58			
100	QPSK	1	137		21.47		22.5	0.0
100	QPSK	1	271		21.51			
100	QPSK	135	0		20.52		21.5	1.0
100	QPSK	135	69		21.48		22.5	0.0
100	QPSK	135	138		20.52		21.5	1.0
100	QPSK	270	0		21.47			
100	16QAM	1	1		20.45		21.5	1.0
100	64QAM	1	1		20.46		21.5	1.0
100	256QAM	1	1		18.45		19.5	3.0
Channel				68668	65000	66034		
Frequency (MHz)				3745.02	3750	3750.01	Time-up limit (dBm)	MPR (dB)
90	QPSK	1	1	21.39	21.26	21.35	22.5	0.0
Channel				68034	65000	66068		
Frequency (MHz)				3740.01	3750	3760.02	Time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	21.39	21.30	21.32	22.5	0.0
Channel				68000	3750	65100		
Frequency (MHz)				3735	3750	3765	Time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	21.44	21.41	21.29	22.5	0.0
Channel				68668	65000	66134		
Frequency (MHz)				3740.02	3750	3770.01	Time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	21.37	21.37	21.35	22.5	0.0
Channel				68034	65000	66168		
Frequency (MHz)				3725.01	3750	3775.02	Time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	21.27	21.42	21.38	22.5	0.0
Channel				68000	3750	65200		
Frequency (MHz)				3720	3750	3780	Time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.37	21.38	21.35	22.5	0.0
Channel				68768	65000	66234		
Frequency (MHz)				3745.02	3750	3765.01	Time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.37	21.34	21.34	22.5	0.0
Channel				68760	65000	66260		
Frequency (MHz)				3712.5	3750	3787.5 <th>Time-up limit (dBm)</th> <th>MPR (dB)</th>	Time-up limit (dBm)	MPR (dB)
25	QPSK	1	1	21.43	21.42	21.38	22.5	0.0
Channel				68734	65000	66268		
Frequency (MHz)				3740.01	3750	3760.02	Time-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.30	21.43	21.30	22.5	0.0
Channel				68768	66000	66284		
Frequency (MHz)				3707.52	3750	3792.51	Time-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.38	21.37	21.44	22.5	0.0
Channel				68000	65000	66300		
Frequency (MHz)				3705 <th>3750</th> <th>3795</th> <th>Time-up limit (dBm)</th> <th>MPR (dB)</th>	3750	3795	Time-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.36	21.39	21.36	22.5	0.0

Part270 n78 PC2 Ant3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dbm)	MPR (db)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		25.06			
100	PI2 BPSK	1	137		24.96		25.5	0.0
100	PI2 BPSK	1	271		24.95			
100	PI2 BPSK	135	0		25.03		25.5	0.0
100	PI2 BPSK	135	69		25.01		25.5	0.0
100	PI2 BPSK	135	138		24.95		25.5	0.0
100	PI2 BPSK	270	0		24.97			
100	QPSK	1	1		25.15			
100	QPSK	1	137		25.07		25.5	0.0
100	QPSK	1	271		25.02			
100	QPSK	135	0		25.08		25.5	0.0
100	QPSK	135	69		25.14		25.5	0.0
100	QPSK	135	138		25.01		25.5	0.0
100	QPSK	270	0		25.07		25.5	0.0
100	16QAM	1	1		25.00		25.5	0.0
100	64QAM	1	1		24.13		24.5	1.0
100	256QAM	1	1		22.14		22.5	3.0
Channel				649668	650000	650334	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	25.01	24.99	25.01	25.5	0.0
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	24.89	25.09	24.92	25.5	0.0
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	24.91	25.06	25.04	25.5	0.0
Channel				648668	650000	651334	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3730.02	3750	3730.02		
60	QPSK	1	1	24.84	24.93	24.89	25.5	0.0
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	24.82	24.93	24.84	25.5	0.0
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	24.81	25.06	24.94	25.5	0.0
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3715.02	3750	3765.02		
30	QPSK	1	1	24.78	24.99	24.91	25.5	0.0
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3710.01	3750	3780.02		
25	QPSK	1	1	24.80	25.00	24.94	25.5	0.0
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3705	3750	3795		
20	QPSK	1	1	25.00	25.04	24.98	25.5	0.0
Channel				647188	650000	652834	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	24.92	25.07	25.03	25.5	0.0
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	24.83	24.99	24.84	25.5	0.0

n41 DS12 Standalone Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				500202	518598	528000	18.5	0.0	
Frequency (MHz)				2448.01	2592.99	2640			
100	P12 BPSK	1	1	17.09	17.11	16.95	18.5	0.0	
100	P12 BPSK	1	137	16.93	17.06	17.04			
100	P12 BPSK	1	271	16.87	17.02	16.88			
100	P12 BPSK	135	0	16.96	17.03	16.87	18.5	0.0	
100	P12 BPSK	135	69	16.88	16.97	16.88	18.5	0.0	
100	P12 BPSK	135	138	16.88	16.91	16.82	18.5	0.0	
100	P12 BPSK	270	0	16.91	16.99	16.81	18.5	0.0	
100	QPSK	1	1	17.09	17.04	17.05			
100	QPSK	1	137	16.92	17.01	16.98			
100	QPSK	1	271	16.86	16.99	16.85	18.5	0.0	
100	QPSK	135	0	17.03	17.09	17.03	18.5	0.0	
100	QPSK	135	69	16.83	17.13	16.80	18.5	0.0	
100	QPSK	135	138	16.76	16.83	16.69	18.5	0.0	
100	QPSK	270	0	16.87	17.04	16.96	18.5	0.0	
100	64QAM	1	1	16.93	17.08	16.92	18.5	0.0	
100	64QAM	1	1	17.05	17.09	16.97	18.5	0.0	
100	256QAM	1	1	16.73	16.79	16.65	18.5	0.0	
Channel				500200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	18.5 <th colspan="2">0.0</th>	0.0	
90	QPSK	1	1	16.94	16.99	16.92	18.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02 <td>2592.99</td> <td>2649.99</td> <td>18.5</td> <td colspan="2">0.0</td>	2592.99	2649.99	18.5	0.0	
80	QPSK	1	1	16.97	17.03	17.00	18.5	0.0	
Channel				506202	518598	531098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01 <td>2592.99</td> <td>2655</td> <td>18.5</td> <td colspan="2">0.0</td>	2592.99	2655	18.5	0.0	
70	QPSK	1	1	16.95	17.11	16.88	18.5	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526 <td>2592.99</td> <td>2659.98</td> <td>18.5</td> <td colspan="2">0.0</td>	2592.99	2659.98	18.5	0.0	
60	QPSK	1	1	17.06	17.10	16.89	18.5	0.0	
Channel				504204	518598	532998 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02 <td>2592.99</td> <td>2664.98</td> <td>18.5</td> <td colspan="2">0.0</td>	2592.99	2664.98	18.5	0.0	
50	QPSK	1	1	16.95	17.05	16.94	18.5	0.0	
Channel				503202	518598	534098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01 <td>2592.99</td> <td>2670</td> <td>18.5</td> <td colspan="2">0.0</td>	2592.99	2670	18.5	0.0	
40	QPSK	1	1	16.98	17.02	16.98	18.5	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511 <td>2592.99</td> <td>2674.98</td> <td>18.5</td> <td colspan="2">0.0</td>	2592.99	2674.98	18.5	0.0	
30	QPSK	1	1	16.97	17.13	16.90	18.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02 <td>2592.99</td> <td>2679.99</td> <td>18.5</td> <td colspan="2">0.0</td>	2592.99	2679.99	18.5	0.0	
20	QPSK	1	1	16.93	17.06	16.94	18.5	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.5 <td>2592.99</td> <td>2682.48</td> <td>18.5</td> <td colspan="2">0.0</td>	2592.99	2682.48	18.5	0.0	
15	QPSK	1	1	16.93	17.05	16.91	18.5	0.0	
Channel				500202	518598	537098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01 <td>2592.99</td> <td>2685</td> <td>18.5</td> <td colspan="2">0.0</td>	2592.99	2685	18.5	0.0	
10	QPSK	1	1	17.01	17.03	16.97	18.5	0.0	

Part270 n77 DSI2 Standalone Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3840	3930	23.4	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.36	22.37	22.25	23.4	0.0
100	PI/2 BPSK	1	137	22.25	22.28	22.16		
100	PI/2 BPSK	1	271	22.26	22.27	22.12		
100	PI/2 BPSK	135	0	22.23	22.34	22.22		
100	PI/2 BPSK	135	69	22.24	22.19	22.08	23.4	0.0
100	PI/2 BPSK	135	138	22.19	22.19	22.24	23.4	0.0
100	PI/2 BPSK	270	0	22.22	22.28	22.25	23.4	0.0
100	QPSK	1	1	22.34	22.44	22.19		
100	QPSK	1	137	22.30	22.41	22.09		
100	QPSK	1	271	22.12	22.24	22.35		
100	QPSK	135	0	22.20	22.12	22.29	23.4	0.0
100	QPSK	135	69	22.18	22.40	22.20	23.4	0.0
100	QPSK	135	138	22.05	22.20	22.12	23.4	0.0
100	QPSK	270	0	22.17	22.28	22.13	23.0	0.4
100	16QAM	1	1	22.11	22.09	22.02		
100	64QAM	1	1	21.18	21.23	20.72		
100	256QAM	1	1	19.31	19.35	19.36		
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	23.4	0.0
90	QPSK	1	1	22.30	22.35	22.24	23.4	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3740	3740.02	23.4	0.0
80	QPSK	1	1	22.20	22.19	22.25	23.4	0.0
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	23.4	0.0
70	QPSK	1	1	22.29	22.25	22.21	23.4	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	23.4	0.0
60	QPSK	1	1	22.18	22.25	22.23	23.4	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	23.4	0.0
50	QPSK	1	1	22.32	22.30	22.13	23.4	0.0
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	23.4	0.0
40	QPSK	1	1	22.15	22.19	22.28	23.4	0.0
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3955.01	23.4	0.0
30	QPSK	1	1	22.10	22.32	22.07	23.4	0.0
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5	23.4	0.0
25	QPSK	1	1	22.33	22.36	22.33	23.4	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	23.4	0.0
20	QPSK	1	1	22.16	22.19	22.19	23.4	0.0
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	23.4	0.0
15	QPSK	1	1	22.19	22.18	22.34	23.4	0.0
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	23.4	0.0
10	QPSK	1	1	22.30	22.25	22.20	23.4	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3750	3750	23.4	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		22.30		23.4	0.0
100	PI/2 BPSK	1	137		22.25			
100	PI/2 BPSK	1	271		22.29			
100	PI/2 BPSK	135	0		22.24			
100	PI/2 BPSK	135	69		22.15		23.4	0.0
100	PI/2 BPSK	135	138		22.07		23.4	0.0
100	PI/2 BPSK	270	0		22.25		23.4	0.0
100	QPSK	1	1		22.37			
100	QPSK	1	137		22.27			
100	QPSK	1	271		22.08			
100	QPSK	135	0		22.13		23.4	0.0
100	QPSK	135	69		22.29		23.4	0.0
100	QPSK	135	138		22.17		23.4	0.0
100	QPSK	270	0		22.31		23.0	0.4
100	16QAM	1	1		21.94			
100	64QAM	1	1		21.17			
100	256QAM	1	1		19.24			
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01	23.4	0.0
90	QPSK	1	1	22.33	22.21	22.17	23.4	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02	23.4	0.0
80	QPSK	1	1	22.21	22.12	22.12	23.4	0.0
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765	23.4	0.0
70	QPSK	1	1	22.16	22.27	22.11	23.4	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01	23.4	0.0
60	QPSK	1	1	22.14	22.18	22.16	23.4	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02	23.4	0.0
50	QPSK	1	1	22.30	22.22	22.11	23.4	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780	23.4	0.0
40	QPSK	1	1	22.07	22.16	22.23	23.4	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01	23.4	0.0
30	QPSK	1	1	22.05	22.32	22.10	23.4	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5	23.4	0.0
25	QPSK	1	1	22.30	22.30	22.23	23.4	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02	23.4	0.0
20	QPSK	1	1	22.09	22.07	22.10	23.4	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51	23.4	0.0
15	QPSK	1	1	22.08	22.03	22.28	23.4	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795	23.4	0.0
10	QPSK	1	1	22.24	22.17	22.12	23.4	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				37500	38400	39300		
100	P12 BPSK	1	1	23.21	22.30	23.15	24.0	0.0
100	P12 BPSK	1	137	22.15	22.19	22.13		
100	P12 BPSK	1	271	20.05	23.15	23.00		
100	P12 BPSK	135	0	22.61	22.76	22.65		
100	P12 BPSK	135	69	23.18	23.23	23.07	24.0	0.0
100	P12 BPSK	135	138	22.52	22.68	22.58	23.5	0.5
100	P12 BPSK	270	0	22.56	22.73	22.62	24.0	0.0
100	QPSK	1	1	23.29	23.33	23.19		
100	QPSK	1	137	23.09	23.25	23.12		
100	QPSK	1	271	22.97	23.13	23.06		
100	QPSK	135	0	22.20	22.31	22.21	23.0	1.0
100	QPSK	135	69	23.22	23.25	22.92	24.0	0.0
100	QPSK	135	138	22.03	22.18	22.08	23.0	1.0
100	QPSK	270	0	22.28	22.31	21.98	23.0	1.0
100	16QAM	1	1	22.24	22.38	22.27		
100	64QAM	1	1	20.68	20.83	20.65		
100	256QAM	1	1	18.45	18.59	18.56		
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.13	23.18	23.07	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.22	23.16	22.98	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.25	23.20	22.95	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.22	23.25	22.97	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.23	23.28	23.02	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.20	23.18	22.95	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.15	23.20	23.02	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.12	23.17	23.00	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.21	23.28	23.00	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.21	23.22	23.05	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.25	23.21	23.04	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3750	3840	3930		
100	P12 BPSK	1	1	25.04	25.03	25.13	26.5	0.0
100	P12 BPSK	1	137	25.04	25.01	25.00		
100	P12 BPSK	1	271	25.21	25.20	25.09		
100	P12 BPSK	135	0	24.54	24.81	24.82		
100	P12 BPSK	135	69	25.08	25.18	25.14	26.5	0.0
100	P12 BPSK	135	138	24.60	24.59	24.55	26.0	0.5
100	P12 BPSK	270	0	24.55	24.63	24.74	26.5	0.0
100	QPSK	1	1	25.22	25.25	25.03		
100	QPSK	1	137	25.16	25.21	24.96		
100	QPSK	1	271	25.08	24.99	25.08		
100	QPSK	135	0	24.11	24.17	24.21	25.5	1.0
100	QPSK	135	69	25.14	25.18	25.16	26.5	0.0
100	QPSK	135	138	23.99	23.98	23.97	25.5	1.0
100	QPSK	270	0	24.25	24.26	24.15	25.5	1.0
100	16QAM	1	1	24.19	24.47	24.49		
100	64QAM	1	1	22.78	22.74	22.66		
100	256QAM	1	1	20.58	20.56	20.41		
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.21	25.21	24.99	26.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.16	25.15	24.90	26.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.99	24.97	25.09	26.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.17	25.10	25.03	26.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.01	25.24	24.86	26.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.01	24.93	25.10	26.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.20	25.18	25.01	26.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	25.05	25.05	25.11	26.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.16	25.16	24.94	26.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.18	25.04	24.96	26.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.23	25.17	25.02	26.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				650000	650000	650000		
				3750	3750	3750		
100	P12 BPSK	1	1		23.39		24.0	0.0
100	P12 BPSK	1	137					
100	P12 BPSK	1	271		23.26			
100	P12 BPSK	135	0		22.94	23.5		
100	P12 BPSK	135	69		23.23		24.0	0.0
100	P12 BPSK	135	138		22.80		23.5	0.5
100	P12 BPSK	270	0		22.80		24.0	0.0
100	QPSK	1	1		23.43			
100	QPSK	1	137		23.40			
100	QPSK	1	271		23.24			
100	QPSK	135	0		22.41		23.0	1.0
100	QPSK	135	69		23.38		24.0	0.0
100	QPSK	135	138		22.28		23.0	1.0
100	QPSK	270	0		22.30		23.0	1.0
100	16QAM	1	1		22.24			
100	64QAM	1	1		21.24	21.5		
100	256QAM	1	1		18.69	19.5		
Channel								
Frequency (MHz)								
				649968	650000	650034	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3755.01		
90	QPSK	1	1	23.31	23.29	23.25	24.0	0.0
Channel								
Frequency (MHz)								
				648334	650000	650666	Tune-up limit (dBm)	MPR (dB)
				3745.01	3750	3765.02		
80	QPSK	1	1	23.28	23.26	23.41	24.0	0.0
Channel								
Frequency (MHz)								
				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)
				3735	3750	3765		
70	QPSK	1	1	23.33	23.37	23.34	24.0	0.0
Channel								
Frequency (MHz)								
				646666	650000	651334	Tune-up limit (dBm)	MPR (dB)
				3730.02	3750	3770.01		
60	QPSK	1	1	23.32	23.32	23.36	24.0	0.0
Channel								
Frequency (MHz)								
				646334	650000	651666	Tune-up limit (dBm)	MPR (dB)
				3725.01	3750	3775.02		
50	QPSK	1	1	23.39	23.39	23.36	24.0	0.0
Channel								
Frequency (MHz)								
				646000	650000	652000	Tune-up limit (dBm)	MPR (dB)
				3720	3750	3780		
40	QPSK	1	1	23.30	23.35	23.29	24.0	0.0
Channel								
Frequency (MHz)								
				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
				3715.02	3750	3765.01		
30	QPSK	1	1	23.38	23.32	23.40	24.0	0.0
Channel								
Frequency (MHz)								
				647500	650000	652200	Tune-up limit (dBm)	MPR (dB)
				3712.5	3750	3787.5		
25	QPSK	1	1	23.33	23.35	23.28	24.0	0.0
Channel								
Frequency (MHz)								
				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)
				3710.01	3750	3790.02		
20	QPSK	1	1	23.39	23.28	23.29	24.0	0.0
Channel								
Frequency (MHz)								
				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
				3707.52	3750	3792.51		
15	QPSK	1	1	23.27	23.28	23.32	24.0	0.0
Channel								
Frequency (MHz)								
				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
				3705	3750	3795		
10	QPSK	1	1	23.35	23.40	23.34	24.0	0.0

Part270 n78 PC2 Ant8								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dbm)	MPR (db)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		24.88			
100	PI2 BPSK	1	137		24.93		26.5	0.0
100	PI2 BPSK	1	271		25.18			
100	PI2 BPSK	135	0		24.75		28.0	0.5
100	PI2 BPSK	135	69		25.05		26.5	0.0
100	PI2 BPSK	135	138		24.61		28.0	0.5
100	PI2 BPSK	270	0		24.63			
100	QPSK	1	1		25.20			
100	QPSK	1	137		25.15		26.5	0.0
100	QPSK	1	271		24.88			
100	QPSK	135	0		24.17		25.5	1.0
100	QPSK	135	69		25.00		26.5	0.0
100	QPSK	135	138		23.84		25.5	1.0
100	QPSK	270	0		24.16		25.5	1.0
100	16QAM	1	1		24.32		25.5	1.0
100	64QAM	1	1		22.61		24.0	2.5
100	256QAM	1	1		20.48		22.0	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dbm)	MPR (db)
90	QPSK	1	1	25.15	25.12	24.88	26.5	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02	(dbm)	MPR (db)
80	QPSK	1	1	25.12	25.11	24.91	26.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765	Tune-up limit (dbm)	MPR (db)
70	QPSK	1	1	24.83	24.85	24.93	26.5	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit (dbm)	MPR (db)
60	QPSK	1	1	25.01	25.11	24.92	26.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02	(dbm)	MPR (db)
50	QPSK	1	1	24.92	25.12	24.76	26.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780	Tune-up limit (dbm)	MPR (db)
40	QPSK	1	1	24.84	24.89	25.07	26.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit (dbm)	MPR (db)
30	QPSK	1	1	25.14	25.17	24.95	26.5	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5	Tune-up limit (dbm)	MPR (db)
25	QPSK	1	1	25.10	25.00	24.95	26.5	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dbm)	MPR (db)
20	QPSK	1	1	24.94	24.95	25.06	26.5	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51	(dbm)	MPR (db)
15	QPSK	1	1	25.02	24.96	24.80	26.5	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795	Tune-up limit (dbm)	MPR (db)
10	QPSK	1	1	25.05	25.10	24.95	26.5	0.0



Part270 n77 Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	22.35	22.41	22.24	24.0	0.0	
100	PV2 BPSK	1	137	22.30	22.37	22.33			
100	PV2 BPSK	1	271	22.24	22.27	22.12			
100	PV2 BPSK	135	0	22.08	22.04	21.92			
100	PV2 BPSK	135	69	22.21	22.36	22.22	24.0	0.0	
100	PV2 BPSK	135	138	21.69	21.67	21.55	23.5	0.5	
100	PV2 BPSK	270	0	21.76	21.90	21.73			
100	QPSK	1	1	22.41	22.46	22.41			
100	QPSK	1	137	22.27	22.36	22.17			
100	QPSK	1	271	22.11	22.30	22.28	23.0	1.0	
100	QPSK	135	0	21.53	21.50	21.45			
100	QPSK	135	69	22.35	22.41	22.36			
100	QPSK	135	138	21.36	21.36	21.21			
100	QPSK	270	0	21.35	22.12	21.40	23.0	1.0	
100	16QAM	1	1	21.43	21.60	21.47	23.0	1.0	
100	64QAM	1	1	20.16	20.27	20.09	21.5	2.5	
100	256QAM	1	1	17.88	17.93	17.78	19.5	4.5	
Channel				648668	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.40	22.39	22.35	24.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.53	22.39	22.38	24.0	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.29	22.36	22.31	24.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.32	22.39	22.27	24.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.41	22.40	22.32	24.0	0.0	
Channel				647668	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3840	3960			
40	QPSK	1	1	22.35	22.33	22.31	24.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	22.26	22.42	22.29	24.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	22.27	22.37	22.27	24.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.34	22.37	22.25	24.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.40	22.27	22.30	24.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.38	22.42	22.24	24.0	0.0	

Part270 n77 PC2 Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	25.43	25.42	25.33	27.0	0.0	
100	PV2 BPSK	1	137	25.32	25.37	25.34			
100	PV2 BPSK	1	271	25.22	25.31	25.17			
100	PV2 BPSK	135	0	24.87	24.99	24.97			
100	PV2 BPSK	135	69	25.33	25.42	25.37	27.0	0.0	
100	PV2 BPSK	135	138	24.81	24.98	24.87	26.5	0.5	
100	PV2 BPSK	270	0	24.87	24.97	24.83			
100	QPSK	1	1	25.45	25.46	25.41			
100	QPSK	1	137	25.28	25.41	25.32			
100	QPSK	1	271	25.29	25.37	25.27	26.0	1.0	
100	QPSK	135	0	24.38	24.40	24.28			
100	QPSK	135	69	25.43	25.45	25.41			
100	QPSK	135	138	24.31	24.32	24.31			
100	QPSK	270	0	24.38	24.44	24.39	26.0	1.0	
100	16QAM	1	1	24.41	24.62	24.43	26.0	1.0	
100	64QAM	1	1	23.33	23.29	23.20	24.5	2.5	
100	256QAM	1	1	20.88	20.91	20.80	22.5	4.5	
Channel				648668	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	25.40	25.44	25.22	27.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	25.33	25.43	25.19	27.0	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	25.42	25.39	25.20	27.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	25.31	25.40	25.22	27.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	25.31	25.33	25.26	27.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	25.36	25.36	25.29	27.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	25.32	25.35	25.23	27.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	25.26	25.37	25.18	27.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	25.26	25.44	25.21	27.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	25.40	25.38	25.29	27.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	25.40	25.39	25.29	27.0	0.0	

Part270 n78 Ant9												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				650000	650000	650000						
Frequency (MHz)				3750	3750	3750						
100	PV2 BPSK	1	1		23.52		24.0	0.0				
100	PV2 BPSK	1	137		23.42							
100	PV2 BPSK	1	271		23.04							
100	PV2 BPSK	135	0		23.09							
100	PV2 BPSK	135	69		23.48		23.5	0.5				
100	PV2 BPSK	135	138		22.73		23.5	0.5				
100	PV2 BPSK	270	0		22.70							
100	QPSK	1	1		23.72							
100	QPSK	1	137		23.37							
100	QPSK	1	271		23.05		24.0	0.0				
100	QPSK	135	0		22.64		23.0	1.0				
100	QPSK	135	69		23.57							
100	QPSK	135	138		22.27							
100	QPSK	270	0		22.27							
100	16QAM	1	1		22.73		23.0	1.0				
100	64QAM	1	1		21.27		21.5	2.5				
100	256QAM	1	1		18.92							
Channel				646668	650000	650334				Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01						
90	QPSK	1	1	23.54	23.60	23.50	24.0	0.0				
Channel				646334	650000	650668	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				3740.01	3750	3760.02	(dBm)					
80	QPSK	1	1	23.51	23.59	23.45	24.0	0.0				
Channel				645000	650000	651000	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				3735	3750	3765	(dBm)					
70	QPSK	1	1	23.65	23.56	23.53	24.0	0.0				
Channel				646668	650000	651334	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				3730.02	3750	3770.01	(dBm)					
60	QPSK	1	1	23.48	23.61	23.65	24.0	0.0				
Channel				646334	650000	651668	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				3725.01	3750	3775.02	(dBm)					
50	QPSK	1	1	23.57	23.63	23.61	24.0	0.0				
Channel				644000	650000	652000	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				3720	3750	3780	(dBm)					
40	QPSK	1	1	23.66	23.59	23.53	24.0	0.0				
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				3715.02	3750	3785.01	(dBm)					
30	QPSK	1	1	23.51	23.61	23.63	24.0	0.0				
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				3712.5	3750	3787.5	(dBm)					
25	QPSK	1	1	23.56	23.48	23.28	24.0	0.0				
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				3710.01	3750	3790.02	(dBm)					
20	QPSK	1	1	23.58	23.50	23.58	24.0	0.0				
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				3707.52	3750	3792.51	(dBm)					
15	QPSK	1	1	23.63	23.63	23.55	24.0	0.0				
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				3705	3750	3795	(dBm)					
10	QPSK	1	1	23.66	23.59	23.54	24.0	0.0				

Part270 n78 PC2 Ant9								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dbm)	MPR (db)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		26.63			
100	PI2 BPSK	1	137		26.60		27.0	0.0
100	PI2 BPSK	1	271		26.50			
100	PI2 BPSK	135	0		26.18		26.5	0.5
100	PI2 BPSK	135	69		26.66		27.0	0.0
100	PI2 BPSK	135	138		26.09		26.5	0.5
100	PI2 BPSK	270	0		26.10			
100	QPSK	1	1		26.75			
100	QPSK	1	137		26.63		27.0	0.0
100	QPSK	1	271		26.54			
100	QPSK	135	0		25.68		26.0	1.0
100	QPSK	135	69		26.70		27.0	0.0
100	QPSK	135	138		26.57		26.0	1.0
100	QPSK	270	0		25.69			
100	16QAM	1	1		25.82		26.0	1.0
100	64QAM	1	1		24.13		24.5	2.5
100	256QAM	1	1		21.89		22.5	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dbm)	MPR (db)
90	QPSK	1	1	26.56	26.63	26.66	27.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dbm)	MPR (db)
80	QPSK	1	1	26.69	26.71	26.71	27.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765	Tune-up limit (dbm)	MPR (db)
70	QPSK	1	1	26.63	26.61	26.57	27.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit (dbm)	MPR (db)
60	QPSK	1	1	26.58	26.72	26.68	27.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dbm)	MPR (db)
50	QPSK	1	1	26.61	26.68	26.74	27.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780	Tune-up limit (dbm)	MPR (db)
40	QPSK	1	1	26.57	26.55	26.56	27.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit (dbm)	MPR (db)
30	QPSK	1	1	26.72	26.70	26.69	27.0	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5	Tune-up limit (dbm)	MPR (db)
25	QPSK	1	1	26.55	26.58	26.58	27.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dbm)	MPR (db)
20	QPSK	1	1	26.62	26.66	26.58	27.0	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51	Tune-up limit (dbm)	MPR (db)
15	QPSK	1	1	26.56	26.67	26.60	27.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795	Tune-up limit (dbm)	MPR (db)
10	QPSK	1	1	26.63	26.71	26.73	27.0	0.0

Reduced Power Mode for DSI2 Simultaneous

n5 Ant0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.04	23.13	22.99	24.0	0.0
20	PI2 BPSK	1	53	22.90	23.03	22.93		
20	PI2 BPSK	1	104	23.00	23.10	22.97	23.5	0.5
20	PI2 BPSK	50	0	22.58	22.84	22.55		
20	PI2 BPSK	50	28	22.82	22.98	22.85	24.0	0.0
20	PI2 BPSK	50	56	22.57	22.70	22.53	23.5	0.5
20	PI2 BPSK	100	0	22.61	22.73	22.58		
20	QPSK	1	1	23.16	23.19	23.02	24.0	0.0
20	QPSK	1	53	22.88	23.06	22.91		
20	QPSK	1	104	23.09	23.12	23.04	23.0	1.0
20	QPSK	50	0	22.15	22.17	22.13		
20	QPSK	50	28	23.11	23.14	23.08	24.0	0.0
20	QPSK	50	56	22.12	22.22	22.06	23.0	1.0
20	QPSK	100	0	22.28	22.31	22.24		
20	16QAM	1	1	22.02	22.05	21.96	23.0	1.0
20	64QAM	1	1	20.87	21.02	20.95	21.5	2.5
20	256QAM	1	1	18.39	18.49	18.37	19.5	4.5
Channel				165300	167300	169300	24.0	0.0
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.03	23.10	22.97	24.0	0.0
Channel				166800	167300	168800	24.0	0.0
Frequency (MHz)				830	836.5	844		
10	QPSK	1	1	23.05	23.02	22.95	24.0	0.0
Channel				165300	167300	169300	24.0	0.0
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.09	23.04	22.85	24.0	0.0

n41 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505202	518598	528000	24.0	0.0	
Frequency (MHz)				2645.01	2592.99	2640			
100	PB2 BPSK	1	1	23.06	23.15	23.12			
100	PB2 BPSK	1	137	23.00	23.07	22.97			
100	PB2 BPSK	1	271	23.05	23.13	23.05	23.5	0.5	
100	PB2 BPSK	135	0	22.57	22.71	22.65			
100	PB2 BPSK	135	69	22.87	23.04	22.94			
100	PB2 BPSK	135	138	22.56	22.68	22.51			
100	PB2 BPSK	270	0	22.58	22.73	22.60	23.5	0.5	
100	QPSK	1	1	23.09	23.18	23.05			
100	QPSK	1	137	22.88	23.06	22.96			
100	QPSK	1	271	23.02	23.12	23.09			
100	QPSK	135	0	22.09	22.18	22.07	23.0	1.0	
100	QPSK	135	69	22.99	23.13	23.02			
100	QPSK	135	138	22.11	22.18	22.13			
100	QPSK	270	0	22.14	22.21	22.11			
100	64QAM	1	1	21.88	22.00	21.96	23.0	1.0	
100	64QAM	1	1	20.57	20.68	20.62			
100	256QAM	1	1	18.36	18.54	18.37			
Channel				508200	518598	528996			
90	QPSK	1	1	23.05	23.07	22.99	24.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2538.02	2592.99	2649.98			
80	QPSK	1	1	22.98	23.02	22.94		24.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.93	23.03	22.98		24.0	
Channel				505200	518598	531996			
Frequency (MHz)				2528	2592.99	2659.98			
60	QPSK	1	1	22.92	23.14	23.02		24.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.93	23.06	22.88	24.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.07	23.11	22.89		24.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.95	23.10	22.96	24.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.94	23.04	22.99		24.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	22.98	23.16	22.99	24.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	23.07	23.13	22.90		24.0	



n2 DSI2 Simultaneous Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000	17.9	0.0	
Frequency (MHz)				1860	1880	1900			
20	PV2 BPSK	1	1	16.95	16.97	16.87	17.9	0.0	
20	PV2 BPSK	1	53	16.85	16.91	16.78			
20	PV2 BPSK	1	104	16.92	16.94	16.76	17.9	0.0	
20	PV2 BPSK	50	0	16.90	16.98	16.92			
20	PV2 BPSK	50	28	16.89	16.99	16.89	17.9	0.0	
20	PV2 BPSK	50	56	16.86	16.92	16.86			
20	PV2 BPSK	100	0	16.89	16.97	16.86	17.9	0.0	
20	QPSK	1	1	16.96	17.07	17.03			
20	QPSK	1	53	16.85	17.01	16.92	17.9	0.0	
20	QPSK	1	104	16.82	16.90	16.87			
20	QPSK	50	0	17.00	17.04	17.02	17.9	0.0	
20	QPSK	50	28	16.93	17.02	16.91			
20	QPSK	50	56	16.79	16.91	16.87	17.9	0.0	
20	QPSK	100	0	16.82	16.94	16.80			
20	16QAM	1	1	16.72	16.88	16.83	17.9	0.0	
20	64QAM	1	1	16.95	16.99	16.83			
20	256QAM	1	1	16.67	16.74	16.59	17.9	0.0	
Channel				371500	376000	380500			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	16.86	16.93	16.98	17.9	MPR (dB)	
Channel				371000	376000	381000	17.9	0.0	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	16.78	16.91	16.90	17.9	MPR (dB)	
Channel				375500	376000	381500	17.9	0.0	
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	16.80	17.02	16.67	17.9	MPR (dB)	

n7 DSI2 Simultaneous Ant1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				504000	507000	510000					
Frequency (MHz)				2520	2535	2550					
40	PV2 BPSK	1	1	14.88	14.85	14.71	15.9	0.0			
40	PV2 BPSK	1	108	14.71	14.78	14.75					
40	PV2 BPSK	1	214	14.78	14.84	14.72	15.9	0.0			
40	PV2 BPSK	108	0	14.85	14.82	14.90					
40	PV2 BPSK	108	54	14.86	14.95	14.73	15.9	0.0			
40	PV2 BPSK	108	108	14.77	14.78	14.71					
40	PV2 BPSK	216	0	14.81	14.94	14.73	15.9	0.0			
40	QPSK	1	1	14.85	14.98	14.90					
40	QPSK	1	108	14.82	14.83	14.80	15.9	0.0			
40	QPSK	1	214	14.78	14.82	14.78					
40	QPSK	108	0	14.88	14.86	14.94	15.9	0.0			
40	QPSK	108	54	14.82	14.87	14.83					
40	QPSK	108	108	14.67	14.90	14.72	15.9	0.0			
40	QPSK	216	0	14.77	14.84	14.72					
40	16QAM	1	1	14.82	14.85	14.77	15.9	0.0			
40	64QAM	1	1	14.79	14.94	14.79					
40	256QAM	1	1	14.61	14.68	14.48	15.9	0.0			
Channel				503000	507000	511000					
Frequency (MHz)				2515	2535	2555	Tune-up limit (dBm)				
30	QPSK	1	1	14.71	14.82	14.80	15.9	0.0			
Channel				502500	507000	511500	Tune-up limit (dBm)				
Frequency (MHz)				2512.5	2535	2557.5	MPR (dB)				
25	QPSK	1	1	14.71	14.90	14.74	15.9	0.0			
Channel				502000	507000	512000	Tune-up limit (dBm)				
Frequency (MHz)				2510	2535	2560	MPR (dB)				
20	PV2 BPSK	1	1	14.81	14.87	14.82	15.9	0.0			
Channel				501500	507000	512500	Tune-up limit (dBm)				
Frequency (MHz)				2507.5	2535	2562.5	MPR (dB)				
15	QPSK	1	1	14.83	14.84	14.87	15.9	0.0			
Channel				501000	507000	513000	Tune-up limit (dBm)				
Frequency (MHz)				2505	2535	2565	MPR (dB)				
10	QPSK	1	1	14.75	14.96	14.77	15.9	0.0			
Channel				500500	507000	513500	Tune-up limit (dBm)				
Frequency (MHz)				2502.5	2535	2567.5	MPR (dB)				
5	QPSK	1	1	14.79	14.88	14.83	15.9	0.0			

n66 DS12 Simultaneous Ant1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				346000	348000	350000	17.6	0.0			
Frequency (MHz)				1730	1745	1760					
40	PV2 BPSK	1	1	16.56	16.58	16.42	17.6	0.0			
40	PV2 BPSK	1	108	16.31	16.48	16.39					
40	PV2 BPSK	1	214	16.35	16.45	16.37	17.6	0.0			
40	PV2 BPSK	108	0	16.35	16.40	16.43					
40	PV2 BPSK	108	54	16.16	16.37	16.33	17.6	0.0			
40	PV2 BPSK	108	108	16.36	16.38	16.30					
40	PV2 BPSK	216	0	16.43	16.47	16.40	17.6	0.0			
40	QPSK	1	1	16.60	16.61	16.59					
40	QPSK	1	108	16.51	16.55	16.46	17.6	0.0			
40	QPSK	1	214	16.28	16.37	16.36					
40	QPSK	108	0	16.32	16.46	16.44	17.6	0.0			
40	QPSK	108	54	16.55	16.56	16.43					
40	QPSK	108	108	16.27	16.40	16.23	17.6	0.0			
40	QPSK	216	0	16.40	16.47	16.33					
40	16QAM	1	1	16.34	16.51	16.35	17.6	0.0			
40	64QAM	1	1	16.28	16.36	16.24					
40	256QAM	1	1	16.19	16.22	16.13	17.6	0.0			
Channel				345000	348000	353000					
Frequency (MHz)				1725	1745	1765	Tune-up limit (dBm)				
30	QPSK	1	1	16.52	16.43	16.49	17.6	0.0			
Channel				344500	348000	353500	Tune-up limit (dBm)				
Frequency (MHz)				1722.5	1745	1767.5	MPR (dB)				
25	QPSK	1	1	16.52	16.54	16.38	17.6	0.0			
Channel				344000	348000	354000	Tune-up limit (dBm)				
Frequency (MHz)				1720	1745	1770	MPR (dB)				
20	QPSK	1	1	16.48	16.46	16.56	17.6	0.0			
Channel				343500	348000	354500	Tune-up limit (dBm)				
Frequency (MHz)				1717.5	1745	1772.5	MPR (dB)				
15	QPSK	1	1	16.58	16.42	16.41	17.6	0.0			
Channel				343000	348000	355000	Tune-up limit (dBm)				
Frequency (MHz)				1715	1745	1775	MPR (dB)				
10	QPSK	1	1	16.50	16.49	16.48	17.6	0.0			
Channel				342500	348000	355500	Tune-up limit (dBm)				
Frequency (MHz)				1712.5	1745	1777.5	MPR (dB)				
5	QPSK	1	1	16.58	16.32	16.58	17.6	0.0			

n38 Default Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996	15.7	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	15.10	15.24	15.05	15.7	0.0	
40	PI/2 BPSK	1	53	14.96	15.04	15.00			
40	PI/2 BPSK	1	104	14.93	15.06	15.00	15.7	0.0	
40	PI/2 BPSK	50	0	14.53	14.56	14.47			
40	PI/2 BPSK	50	28	15.01	15.18	15.09	15.7	0.0	
40	PI/2 BPSK	50	56	14.34	14.44	14.40			
40	PI/2 BPSK	100	0	14.29	14.51	14.38	15.7	0.0	
40	QPSK	1	1	15.23	15.33	15.10			
40	QPSK	1	53	15.18	15.09	15.05	15.7	0.0	
40	QPSK	1	104	15.02	15.17	14.99			
40	QPSK	50	0	13.88	14.11	13.91	15.7	0.0	
40	QPSK	50	28	15.11	15.13	15.00			
40	QPSK	80	56	13.85	13.87	13.80	15.7	0.0	
40	QPSK	100	0	13.98	14.07	14.02			
40	16QAM	1	1	14.05	14.10	13.97	15.7	0.0	
40	64QAM	1	1	13.89	14.05	13.91			
40	256QAM	1	1	15.13	15.16	15.03	15.7	0.0	
Channel				517002	518000	518998		MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	15.18	15.09	15.05	15.7	0.0	
Channel				516504	519000	521496		MPR (dB)	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	15.21	15.11	14.97	15.7	0.0	
Channel				516000	519000	522000		MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	15.12	15.05	15.09	15.7	0.0	
Channel				515502	519000	524998		MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	15.06	15.20	15.06	15.7	0.0	
Channel				515004	519000	525996		MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	15.03	15.11	15.16	15.7	0.0	
Channel				514504	519000	526996			

n41 DS12 Simultaneous Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502002	518998	529000	15.7	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	14.49	14.60	14.54	15.7	0.0	
100	PI/2 BPSK	1	137	14.53	14.57	14.47			
100	PI/2 BPSK	1	271	14.35	14.50	14.34	15.7	0.0	
100	PI/2 BPSK	135	0	14.41	14.58	14.45			
100	PI/2 BPSK	135	69	14.44	14.54	14.48	15.7	0.0	
100	PI/2 BPSK	135	138	14.47	14.56	14.39			
100	PI/2 BPSK	270	0	14.38	14.51	14.35	15.7	0.0	
100	QPSK	1	1	14.63	14.66	14.57			
100	QPSK	1	137	14.51	14.65	14.57	15.7	0.0	
100	QPSK	1	271	14.42	14.59	14.54			
100	QPSK	135	0	14.51	14.62	14.54	15.7	0.0	
100	QPSK	135	69	14.57	14.61	14.50			
100	QPSK	135	138	14.45	14.65	14.53	15.7	0.0	
100	QPSK	270	0	14.44	14.53	14.48			
100	16QAM	1	1	14.51	14.61	14.59	15.7	0.0	
100	64QAM	1	1	14.41	14.56	14.52			
100	256QAM	1	1	14.44	14.59	14.44	15.7	0.0	
Channel				502000	518998	529000		MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	14.47	14.65	14.53	15.7	0.0	
Channel				507204	518998	529998		MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	14.60	14.65	14.52	15.7	0.0	
Channel				506202	518998	531000		MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	14.61	14.52	14.44	15.7	0.0	
Channel				505200	518998	531998		MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	14.61	14.53	14.49	15.7	0.0	
Channel				504204	518998	532998		MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	14.56	14.53	14.42	15.7	0.0	
Channel				503202	518998	534000		MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	14.57	14.50	14.46	15.7	0.0	
Channel				502200	518998	534998		MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	14.51	14.61	14.40	15.7	0.0	
Channel				501204	518998	535998		MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	14.48	14.55	14.44	15.7	0.0	
Channel				500700	518998	536998		MPR (dB)	
Frequency (MHz)				2503.15	2592.99	2684.48			
15	QPSK	1	1	14.48	14.66	14.55	15.7	0.0	
Channel				500202	518998	537000		MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	14.50	14.60	14.44	15.7	0.0	
Channel				500000	518998	537000			

n7 Ant2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	510000		
Frequency (MHz)				2620	2635	2650		
40	PI2 BPSK	1	1	22.22	22.26	22.20	24.0	0.0
40	PI2 BPSK	1	108	22.13	22.23	22.11		
40	PI2 BPSK	1	214	22.15	22.21	22.12	23.5	0.5
40	PI2 BPSK	108	0	21.58	21.72	21.55		
40	PI2 BPSK	108	54	22.01	22.08	22.03	24.0	0.0
40	PI2 BPSK	108	108	21.65	21.76	21.67	23.5	0.5
40	PI2 BPSK	216	0	21.69	21.79	21.69		
40	QPSK	1	1	22.17	22.32	22.22	24.0	0.0
40	QPSK	1	108	22.18	22.24	22.16		
40	QPSK	1	214	22.10	22.27	22.10	23.0	1.0
40	QPSK	108	0	21.06	21.15	21.12		
40	QPSK	108	54	22.06	22.19	22.15	24.0	0.0
40	QPSK	108	108	21.16	21.26	21.22	23.0	1.0
40	QPSK	216	0	21.11	21.33	21.23		
40	16QAM	1	1	21.12	21.17	21.10	23.0	1.0
40	64QAM	1	1	19.59	19.62	19.56	21.5	2.5
40	256QAM	1	1	17.66	17.68	17.55	19.5	4.5
Channel				533000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2615	2635	2655		
30	QPSK	1	1	22.02	22.14	22.09	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2635	2657.5		
25	QPSK	1	1	22.09	22.27	22.10	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2610	2635	2660		
20	PI2 BPSK	1	1	22.12	22.23	22.04	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2607.5	2635	2662.5		
15	QPSK	1	1	22.07	22.15	22.07	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2605	2635	2665		
10	QPSK	1	1	22.11	22.24	22.17	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2635	2667.5		
5	QPSK	1	1	22.15	22.22	22.19	24.0	0.0

n38 Ant2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				516004	519000	519996	24.0	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	22.69	22.72	22.60		
40	PI/2 BPSK	1	53	22.60	22.66	22.58		
40	PI/2 BPSK	1	104	22.59	22.60	22.56	23.5	0.5
40	PI/2 BPSK	50	0	22.07	22.15	22.12		
40	PI/2 BPSK	50	28	22.43	22.61	22.48	24.0	0.0
40	PI/2 BPSK	50	56	21.97	22.02	21.88	23.5	0.5
40	PI/2 BPSK	100	0	21.91	22.03	22.00	24.0	0.0
40	QPSK	1	1	22.77	22.86	22.64		
40	QPSK	1	53	22.54	22.66	22.53		
40	QPSK	1	104	22.56	22.61	22.50		
40	QPSK	50	0	21.46	21.59	21.43	23.0	1.0
40	QPSK	50	28	22.59	22.69	22.59	24.0	0.0
40	QPSK	80	56	21.51	21.54	21.53	23.0	1.0
40	QPSK	100	0	21.55	21.60	21.57	23.0	1.0
40	16QAM	1	1	21.66	21.82	21.65		
40	16QAM	1	1	20.49	20.58	20.40		
40	256QAM	1	1	17.59	17.67	17.63		
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.20	22.22	22.03	24.0	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	22.10	22.20	22.11	24.0	0.0
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.18	22.15	22.07	24.0	0.0
Channel				515502	519000	524998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	22.19	22.12	22.09	24.0	0.0
Channel				515004	519000	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	22.08	22.10	22.11	24.0	0.0

n41 Ant2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502002	518998	520000	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.86	22.94	22.91		
100	PI/2 BPSK	1	137	22.90	22.96	22.91		
100	PI/2 BPSK	1	271	22.77	22.91	22.79	23.5	0.5
100	PI/2 BPSK	135	0	22.47	22.55	22.41		
100	PI/2 BPSK	135	69	22.93	22.98	22.85	24.0	0.0
100	PI/2 BPSK	135	138	22.40	22.49	22.44	23.5	0.5
100	PI/2 BPSK	270	0	22.36	22.53	22.45	24.0	0.0
100	QPSK	1	1	22.96	23.03	22.99		
100	QPSK	1	137	22.87	23.00	22.85		
100	QPSK	1	271	22.82	22.97	22.82		
100	QPSK	135	0	22.06	22.11	22.06	23.0	1.0
100	QPSK	135	69	22.93	22.97	22.91	24.0	0.0
100	QPSK	135	138	21.96	22.01	21.92	23.0	1.0
100	QPSK	270	0	21.98	22.03	21.94	23.0	1.0
100	16QAM	1	1	21.91	22.08	21.97		
100	16QAM	1	1	20.48	20.61	20.56		
100	256QAM	1	1	18.48	18.52	18.46		
Channel				502000	518998	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.92	22.96	22.88	24.0	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	22.90	22.89	22.96	24.0	0.0
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.90	22.86	22.92	24.0	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.98		
60	QPSK	1	1	22.90	22.99	22.82	24.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.94	22.94	22.87	24.0	0.0
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.88	22.91	22.86	24.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.99		
30	QPSK	1	1	22.89	22.93	22.86	24.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.93	22.97	22.91	24.0	0.0
Channel				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2499.15	2592.99	2684.48		
15	QPSK	1	1	22.82	22.85	22.88	24.0	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.88	22.90	22.81	24.0	0.0



Part270 n77 Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	21.24	21.18	21.19			
100	P12 BPSK	1	137	21.09	21.23	21.12		0.0	
100	P12 BPSK	1	271	21.11	21.10	21.00			
100	P12 BPSK	135	0	20.84	20.79	20.73	21.5	0.0	
100	P12 BPSK	135	69	20.10	21.24	21.14	21.5	0.0	
100	P12 BPSK	135	138	20.71	20.72	20.76	21.5	0.0	
100	P12 BPSK	270	0	20.77	20.79	20.75			
100	QPSK	1	1	21.27	21.36	21.07			
100	QPSK	1	137	21.14	21.22	21.18	21.5	0.0	
100	QPSK	1	271	21.13	21.15	21.12			
100	QPSK	135	0	21.26	21.28	21.26	21.5	0.0	
100	QPSK	135	69	21.25	21.37	21.38	21.5	0.0	
100	QPSK	135	138	20.06	20.06	20.08	21.5	0.0	
100	QPSK	270	0	20.70	21.87	20.73			
100	16QAM	1	1	19.73	19.71	19.75	21.5	0.0	
100	64QAM	1	1	20.70	20.84	20.71	21.5	0.0	
100	256QAM	1	1	19.75	19.07	19.10	20.0	1.5	
Channel				648668	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.25	20.27	19.90	21.5	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.12	20.23	20.09	21.5	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.16	20.19	20.10	21.5	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.16	20.16	20.11	21.5	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.13	20.22	20.02	21.5	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.24	20.28	20.06	21.5	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3953.01			
30	QPSK	1	1	20.17	20.25	19.99	21.5	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	20.08	20.22	20.08	21.5	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.18	20.28	20.01	21.5	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.18	20.22	20.11	21.5	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.10	20.22	20.01	21.5	0.0	

Part270 n77 PC2 Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	24.30	24.41	24.34			
100	P12 BPSK	1	137	24.26	24.44	24.39	24.5	0.0	
100	P12 BPSK	1	271	24.27	24.38	24.23			
100	P12 BPSK	135	0	23.85	23.99	23.83	24.5	0.0	
100	P12 BPSK	135	69	24.41	24.48	24.44	24.5	0.0	
100	P12 BPSK	135	138	23.90	23.95	23.80	24.5	0.0	
100	P12 BPSK	270	0	23.92	24.00	23.84			
100	QPSK	1	1	24.40	24.59	24.47			
100	QPSK	1	137	24.28	24.44	24.41	24.5	0.0	
100	QPSK	1	271	24.30	24.39	24.29			
100	QPSK	135	0	23.31	23.43	23.32	24.5	0.0	
100	QPSK	135	69	24.26	24.43	24.32	24.5	0.0	
100	QPSK	135	138	23.26	23.43	23.35	24.5	0.0	
100	QPSK	270	0	23.31	23.53	23.46			
100	16QAM	1	1	23.39	23.48	23.43	24.5	0.0	
100	64QAM	1	1	23.41	23.47	23.41	24.5	0.0	
100	256QAM	1	1	21.99	21.99	21.89	22.5	2.0	
Channel				648668	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	24.25	24.46	24.30	24.5	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	24.38	24.33	24.34	24.5	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	24.34	24.40	24.33	24.5	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	24.28	24.38	24.43	24.5	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	24.30	24.38	24.36	24.5	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	24.29	24.45	24.31	24.5	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3953.01			
30	QPSK	1	1	24.30	24.32	24.37	24.5	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	24.35	24.38	24.40	24.5	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	24.38	24.40	24.44	24.5	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	24.33	24.45	24.35	24.5	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	24.30	24.38	24.43	24.5	0.0	

Part270 n78 Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	P12 BPSK	1	1			20.32			
100	P12 BPSK	1	137			20.50	21.5	0.0	
100	P12 BPSK	1	271			20.51			
100	P12 BPSK	135	0			20.16	21.5	0.0	
100	P12 BPSK	135	69			20.39	21.5	0.0	
100	P12 BPSK	135	138			20.17	21.5	0.0	
100	P12 BPSK	270	0			20.26			
100	QPSK	1	1			20.84			
100	QPSK	1	137			20.59	21.5	0.0	
100	QPSK	1	271			20.48			

Part270 n78 PC2 Ant3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		24.37			
100	PI/2 BPSK	1	137		24.40		24.5	0.0
100	PI/2 BPSK	1	271		24.33			
100	PI/2 BPSK	135	0		23.95		24.5	0.0
100	PI/2 BPSK	135	69		24.44		24.5	0.0
100	PI/2 BPSK	135	138		23.91		24.5	0.0
100	PI/2 BPSK	270	0		23.95			
100	QPSK	1	1		24.40			
100	QPSK	1	137		24.41		24.5	0.0
100	QPSK	1	271		24.35			
100	QPSK	135	0		23.40		24.5	0.0
100	QPSK	135	69		24.37		24.5	0.0
100	QPSK	135	138		23.36			
100	QPSK	270	0		23.48		24.5	0.0
100	16QAM	1	1		23.42		24.5	0.0
100	64QAM	1	1		23.43		24.5	0.0
100	256QAM	1	1		21.95		22.5	2.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	24.19	24.39	24.25	24.5	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	24.20	24.27	24.27	24.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	24.28	24.32	24.30	24.5	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	24.20	24.33	24.37	24.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	24.25	24.33	24.30	24.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	24.21	24.41	24.24	24.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	24.23	24.23	24.30	24.5	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	24.26	24.33	24.36	24.5	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	24.30	24.31	24.35	24.5	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	24.30	24.41	24.30	24.5	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	24.23	24.29	24.35	24.5	0.0



Part270 n77 DSI2 Simultaneous Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	20.31	20.27	20.17	21.5	0.0	
100	PV2 BPSK	1	137	20.20	20.19	20.16			
100	PV2 BPSK	1	271	20.21	20.19	20.34	21.5	0.0	
100	PV2 BPSK	135	0	20.10	20.22	20.19			
100	PV2 BPSK	135	69	20.20	20.21	20.11	21.5	0.0	
100	PV2 BPSK	135	138	20.25	20.27	20.27	21.5	0.0	
100	PV2 BPSK	270	0	20.08	20.24	20.24	21.5	0.0	
100	QPSK	1	1	20.20	20.55	20.04			
100	QPSK	1	137	20.15	20.20	20.08	21.5	0.0	
100	QPSK	1	271	20.18	20.30	20.30			
100	QPSK	135	0	20.27	20.37	20.36	21.5	0.0	
100	QPSK	135	69	20.29	20.35	20.22	21.5	0.0	
100	QPSK	135	138	20.17	20.03	20.14	21.5	0.0	
100	QPSK	270	0	20.18	20.33	20.28			
100	16QAM	1	1	19.89	19.94	19.74	21.5	0.0	
100	64QAM	1	1	20.27	20.22	20.23	21.5	0.0	
100	256QAM	1	1	18.55	18.59	18.63	19.5	2.0	
Channel				649500	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.16	20.24	19.88	21.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.18	20.33	19.99	21.5	0.0	
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.14	20.26	19.92	21.5	0.0	
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.24	20.24	20.02	21.5	0.0	
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.16	20.25	19.90	21.5	0.0	
Channel				647668	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.22	20.39	20.05	21.5	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	20.21	20.33	19.93	21.5	0.0	
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	20.15	20.19	20.17	21.5	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.07	20.30	19.98	21.5	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.09	20.17	19.88	21.5	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.01	20.31	20.03	21.5	0.0	

Part270 n77 PC2 DSI2 Simultaneous Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	23.22	23.33	23.28	24.5	0.0	
100	PV2 BPSK	1	137	23.23	23.16	23.20			
100	PV2 BPSK	1	271	23.27	23.10	23.29	24.5	0.0	
100	PV2 BPSK	135	0	23.16	23.20	23.13			
100	PV2 BPSK	135	69	23.23	23.30	23.27	24.5	0.0	
100	PV2 BPSK	135	138	23.26	23.27	23.29	24.5	0.0	
100	PV2 BPSK	270	0	23.13	23.17	23.16	24.5	0.0	
100	QPSK	1	1	23.22	23.38	23.10			
100	QPSK	1	137	23.22	23.30	23.11	24.5	0.0	
100	QPSK	1	271	23.17	23.30	23.21			
100	QPSK	135	0	23.26	23.32	23.33	24.5	0.0	
100	QPSK	135	69	23.21	23.38	23.31	24.5	0.0	
100	QPSK	135	138	23.16	23.22	23.15	24.5	0.0	
100	QPSK	270	0	23.18	23.27	23.25	24.5	0.0	
100	16QAM	1	1	23.04	23.10	23.02			
100	64QAM	1	1	23.02	23.10	23.03	24.5	0.0	
100	256QAM	1	1	21.50	21.60	21.30	22.5	2.0	
Channel				648668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	23.02	23.36	23.06	24.5	0.0	
Channel				649334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.02	23.29	22.97	24.5	0.0	
Channel				649000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.18	23.32	23.03	24.5	0.0	
Channel				648668	650000	653334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.13	23.22	23.08	24.5	0.0	
Channel				648334	650000	653668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.10	23.27	22.99	24.5	0.0	
Channel				648000	650000	654000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.09	23.20	22.95	24.5	0.0	
Channel				647668	650000	654334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	23.09	23.29	23.05	24.5	0.0	
Channel				647500	650000	654500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	23.12	23.29	22.92	24.5	0.0	
Channel				647334	650000	654668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.11	23.24	23.05	24.5	0.0	
Channel				647168	650000	654834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	23.19	23.30	22.99	24.5	0.0	
Channel				647000	650000	655000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.03	23.21	22.99	24.5	0.0	

Part270 n78 DSI2 Simultaneous Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PV2 BPSK	1	1		21.86		23.0	0.0	
100	PV2 BPSK	1	137		21.92				
100	PV2 BPSK	1	271		21.85		23.0	0.0	
100	PV2 BPSK	135	0		21.81				
100	PV2 BPSK	135	69		21.84		23.0	0.0	
100	PV2 BPSK	135	138		21.80		23.0	0.0	
100	PV2 BPSK	270	0		21.90				
100	QPSK	1	1		21.93		23.0	0.0	
100	QPSK	1	137		21.85				
100	QPSK	1	271		21.86		23.0	0.0	
100	QPSK	135	0		21.83				
100	QPSK	135	69		21.89		23.0	0.0	
100	QPSK	135	138		21.77				
100	QPSK	270	0		21.82		23.0	0.0	
100	16QAM	1	1		21.75				
100	64QAM	1	1		20.68		21.5	1.5	
100	256QAM	1	1		18.52		19.5	3.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	21.87	21.88	21.80	23.0	0.0	
Channel				648634	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	21.85	21.80	21.93	23.0	0.0	
Channel				645000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	21.84	21.75	21.87	23.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3750	3760.01			
60	QPSK	1	1	21.77	21.82	21.89	23.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735.01	3750	3775.02			
50	QPSK	1	1	21.76	21.78	21.90	23.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	21.81	21.87	21.82	23.0	0.0	
Channel				647688	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3765.01			
30	QPSK	1	1	21.90	21.85	21.88	23.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	21.85	21.83	21.82	23.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
20	QPSK	1	1	21.81	21.76	21.88	23.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	21.75	21.83	21.90	23.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	21.90	21.84	21.85	23.0	0.0	

Part270 n78 PC2 DSI2 Simultaneous Ant3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		24.93			
100	PI2 BPSK	1	137		24.90		26.0	0.0
100	PI2 BPSK	1	271		24.86			
100	PI2 BPSK	135	0		24.80		26.0	0.0
100	PI2 BPSK	135	69		24.78		26.0	0.0
100	PI2 BPSK	135	138		24.83		26.0	0.0
100	PI2 BPSK	270	0		24.91			
100	QPSK	1	1		24.85			
100	QPSK	1	137		24.87		26.0	0.0
100	QPSK	1	271		24.78			
100	QPSK	135	0		24.82		26.0	0.0
100	QPSK	135	69		24.93		26.0	0.0
100	QPSK	135	138		24.75		26.0	0.0
100	QPSK	270	0		24.82			
100	16QAM	1	1		24.83		26.0	0.0
100	64QAM	1	1		23.73		24.5	1.5
100	256QAM	1	1		21.55		22.5	3.5
Channel				650668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3765.02	3750	3745.01		
90	QPSK	1	1	24.87	24.90	24.92	26.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	24.82	24.87	24.90	26.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	24.82	24.80	24.89	26.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3760.01		
60	QPSK	1	1	24.81	24.79	24.87	26.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	24.92	24.85	24.84	26.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	24.89	24.82	24.90	26.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3765.01		
30	QPSK	1	1	24.83	24.79	24.78	26.0	0.0
Channel				647300	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	24.92	24.86	24.87	26.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	24.78	24.81	24.91	26.0	0.0
Channel				647188	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	24.83	24.90	24.87	26.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	24.93	24.88	24.81	26.0	0.0

n41 DSI2 Simultaneous Ant4												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				500202	518598	528000	17.5	0.0				
Frequency (MHz)				2548.01	2592.99	2640						
100	PV2 BPSK	1	1	16.06	16.10	16.01						
100	PV2 BPSK	1	137	15.99	16.07	16.03	17.5	0.0				
100	PV2 BPSK	1	271	15.86	16.02	15.99						
100	PV2 BPSK	135	0	15.98	16.08	16.06						
100	PV2 BPSK	135	69	15.78	15.96	15.85	17.5	0.0				
100	PV2 BPSK	135	138	15.70	15.85	15.77						
100	PV2 BPSK	270	0	15.84	16.01	15.87						
100	QPSK	1	1	15.93	16.49	16.06	17.5	0.0				
100	QPSK	1	137	15.95	15.99	15.95						
100	QPSK	1	271	15.80	15.97	15.80						
100	QPSK	135	0	15.98	16.05	15.89	17.5	0.0				
100	QPSK	135	69	15.94	15.99	15.89						
100	QPSK	135	138	15.76	15.91	15.84						
100	QPSK	270	0	15.87	16.03	15.87	17.5	0.0				
100	16QAM	1	1	15.99	16.08	16.05						
100	64QAM	1	1	15.97	16.02	15.86						
100	256QAM	1	1	15.83	15.86	15.75	17.5	0.0				
Channel				500200	518598	528998				Tune-up limit (dBm)		
Frequency (MHz)				2541	2592.99	2644.98				MPR (dB)		
90	QPSK	1	1	15.84	16.09	15.90	17.5	0.0				
Channel				507204	518598	529998	Tune-up limit (dBm)					
Frequency (MHz)				2536.02	2592.99	2643.99	MPR (dB)					
80	QPSK	1	1	15.88	15.98	15.92	17.5	0.0				
Channel				506202	518598	531000	Tune-up limit (dBm)					
Frequency (MHz)				2531.01	2592.99	2655	MPR (dB)					
70	QPSK	1	1	15.75	16.03	15.88	17.5	0.0				
Channel				505200	518598	531996	Tune-up limit (dBm)					
Frequency (MHz)				2526	2592.99	2659.98	MPR (dB)					
60	QPSK	1	1	15.80	15.98	16.01	17.5	0.0				
Channel				504204	518598	532998	Tune-up limit (dBm)					
Frequency (MHz)				2521.02	2592.99	2664.98	MPR (dB)					
50	QPSK	1	1	15.78	16.01	15.97	17.5	0.0				
Channel				503202	518598	534000	Tune-up limit (dBm)					
Frequency (MHz)				2516.01	2592.99	2670	MPR (dB)					
40	QPSK	1	1	15.90	16.00	15.98	17.5	0.0				
Channel				502200	518598	534996	Tune-up limit (dBm)					
Frequency (MHz)				2511	2592.99	2674.98	MPR (dB)					
30	QPSK	1	1	15.84	16.11	15.92	17.5	0.0				
Channel				501204	518598	535998	Tune-up limit (dBm)					
Frequency (MHz)				2506.02	2592.99	2679.99	MPR (dB)					
20	QPSK	1	1	15.88	16.05	15.95	17.5	0.0				
Channel				500700	518598	536496	Tune-up limit (dBm)					
Frequency (MHz)				2501.5	2592.99	2682.48	MPR (dB)					
15	QPSK	1	1	15.81	16.06	16.00	17.5	0.0				
Channel				500202	518598	537000	Tune-up limit (dBm)					
Frequency (MHz)				2501.01	2592.99	2685	MPR (dB)					
10	QPSK	1	1	15.80	16.08	16.00	17.5	0.0				

Part270 n77 DS12 Simultaneous Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				655000	655000	655000	22.4	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.30	21.22	21.17	22.4	0.0
100	PI/2 BPSK	1	137	21.15	21.24	21.11		
100	PI/2 BPSK	1	271	21.22	21.08	21.07		
100	PI/2 BPSK	135	0	21.28	21.28	21.21		
100	PI/2 BPSK	135	69	21.27	21.33	21.14	22.4	0.0
100	PI/2 BPSK	135	138	21.21	21.29	21.20	22.4	0.0
100	PI/2 BPSK	270	0	21.31	21.23	21.26	22.4	0.0
100	QPSK	1	1	21.36	21.40	21.13		
100	QPSK	1	137	21.21	21.28	21.08		
100	QPSK	1	271	21.23	21.23	21.17		
100	QPSK	135	0	21.18	21.20	21.13	22.4	0.0
100	QPSK	135	69	21.19	21.38	21.25	22.4	0.0
100	QPSK	135	138	21.23	21.17	21.16	22.4	0.0
100	QPSK	270	0	21.21	21.27	21.18	22.4	0.0
100	16QAM	1	1	21.20	21.18	21.23		
100	64QAM	1	1	21.22	21.31	20.69		
100	256QAM	1	1	19.41	19.35	19.40		
Channel				649968	655000	662834	22.4	0.0
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.08	21.27	21.34	22.4	0.0
Channel				649334	655000	662668	22.4	0.0
Frequency (MHz)				3740.01	3740	3940.02		
80	QPSK	1	1	21.30	21.31	21.35	22.4	0.0
Channel				649000	655000	663000	22.4	0.0
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.30	21.19	21.20	22.4	0.0
Channel				648668	655000	663334	22.4	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	21.24	21.30	21.25	22.4	0.0
Channel				648334	655000	663668	22.4	0.0
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.22	21.21	21.09	22.4	0.0
Channel				648000	655000	664000	22.4	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.24	21.24	21.14	22.4	0.0
Channel				647668	655000	664334	22.4	0.0
Frequency (MHz)				3713.02	3840	3963.01		
30	QPSK	1	1	21.27	21.21	21.14	22.4	0.0
Channel				647500	655000	664500	22.4	0.0
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	21.18	21.25	21.21	22.4	0.0
Channel				647334	655000	664668	22.4	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.19	21.34	21.28	22.4	0.0
Channel				647168	655000	664834	22.4	0.0
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	21.19	21.12	21.22	22.4	0.0
Channel				647000	655000	665000	22.4	0.0
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	21.21	21.27	21.35	22.4	0.0

Part270 n78 DS12 Simultaneous Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				655000	655000	655000	22.4	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		20.55		22.4	0.0
100	PI/2 BPSK	1	137		20.65			
100	PI/2 BPSK	1	271		20.55			
100	PI/2 BPSK	135	0		20.72			
100	PI/2 BPSK	135	69		20.72		22.4	0.0
100	PI/2 BPSK	135	138		20.66		22.4	0.0
100	PI/2 BPSK	270	0		20.66		22.4	0.0
100	QPSK	1	1		20.73			
100	QPSK	1	137		20.67			
100	QPSK	1	271		20.58			
100	QPSK	135	0		20.58		22.4	0.0
100	QPSK	135	69		20.69		22.4	0.0
100	QPSK	135	138		20.63		22.4	0.0
100	QPSK	270	0		20.67			
100	16QAM	1	1		20.54			
100	64QAM	1	1		20.51			
100	256QAM	1	1		19.16		19.9	2.5
Channel				649668	655000	665034	22.4	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	20.71	20.58	20.80	22.4	0.0
Channel				649334	655000	665068	22.4	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	20.54	20.69	20.55	22.4	0.0
Channel				649000	655000	665100	22.4	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	20.55	20.71	20.58	22.4	0.0
Channel				648668	655000	665134	22.4	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	20.65	20.70	20.68	22.4	0.0
Channel				648334	655000	665168	22.4	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	20.65	20.61	20.64	22.4	0.0
Channel				648000	655000	665200	22.4	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.64	20.66	20.61	22.4	0.0
Channel				647668	655000	665234	22.4	0.0
Frequency (MHz)				3713.02	3750	3783.01		
30	QPSK	1	1	20.64	20.60	20.59	22.4	0.0
Channel				647500	655000	665250	22.4	0.0
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	20.61	20.69	20.65	22.4	0.0
Channel				647334	655000	665268	22.4	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	20.57	20.56	20.57	22.4	0.0
Channel				647168	655000	6652834	22.4	0.0
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	20.61	20.67	20.67	22.4	0.0
Channel				647000	655000	665300	22.4	0.0
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	20.70	20.65	20.67	22.4	0.0

Part270 n77 Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	21.34	21.41	20.77	22.4	0.0	
100	PI2 BPSK	1	137	21.17	21.39	20.77			
100	PI2 BPSK	1	271	21.04	21.12	20.87			
100	PI2 BPSK	135	0	21.22	21.35	20.81			
100	PI2 BPSK	135	69	21.07	21.32	20.86	22.4	0.0	
100	PI2 BPSK	135	138	20.96	21.15	20.84	22.4	0.0	
100	PI2 BPSK	270	0	21.22	21.22	20.67	22.4	0.0	
100	QPSK	1	1	21.28	21.43	20.79			
100	QPSK	1	137	21.24	21.30	20.88			
100	QPSK	1	271	21.15	21.17	20.83			
100	QPSK	135	0	21.16	21.27	20.75	22.4	0.0	
100	QPSK	135	69	21.34	21.39	21.00	22.4	0.0	
100	QPSK	135	138	20.95	21.11	20.70	22.4	0.0	
100	QPSK	270	0	21.25	21.27	20.84	22.4	0.0	
100	16QAM	1	1	20.91	20.90	20.48			
100	64QAM	1	1	20.51	20.52	20.54		21.5	
100	256QAM	1	1	17.75	17.83	17.81		19.5	
Channel				64998	65000	65034	Tune-up limit		
Frequency (MHz)				3745.02	3840	3935.01	(dBm)		
90	QPSK	1	1	20.84	21.04	20.46	22.4	0.0	
Channel				649334	650000	652668	Tune-up limit		
Frequency (MHz)				3740.01	3840	3940.02	(dBm)		
80	QPSK	1	1	21.00	20.95	20.89	22.4	0.0	
Channel				649000	650000	653000	Tune-up limit		
Frequency (MHz)				3735	3840	3945	(dBm)		
70	QPSK	1	1	20.89	20.99	20.48	22.4	0.0	
Channel				648668	650000	653334	Tune-up limit		
Frequency (MHz)				3730.02	3840	3935.01	(dBm)		
60	QPSK	1	1	20.72	20.98	20.67	22.4	0.0	
Channel				648334	650000	653668	Tune-up limit		
Frequency (MHz)				3725.01	3840	3955.02	(dBm)		
50	QPSK	1	1	20.78	20.93	20.48	22.4	0.0	
Channel				648000	650000	654000	Tune-up limit		
Frequency (MHz)				3720	3840	3960	(dBm)		
40	QPSK	1	1	20.83	21.00	20.52	22.4	0.0	
Channel				647668	650000	654334	Tune-up limit		
Frequency (MHz)				3715.02	3840	3955.01	(dBm)		
30	QPSK	1	1	20.91	20.89	20.48	22.4	0.0	
Channel				647334	650000	654500	Tune-up limit		
Frequency (MHz)				3712.5	3840	3967.5	(dBm)		
25	QPSK	1	1	20.88	20.55	20.44	22.4	0.0	
Channel				647334	650000	654668	Tune-up limit		
Frequency (MHz)				3710.01	3840	3970.02	(dBm)		
20	QPSK	1	1	20.92	20.93	20.45	22.4	0.0	
Channel				647188	650000	654834	Tune-up limit		
Frequency (MHz)				3707.52	3840	3972.51	(dBm)		
15	QPSK	1	1	20.91	20.62	20.45	22.4	0.0	
Channel				647000	650000	655000	Tune-up limit		
Frequency (MHz)				3705	3840	3975	(dBm)		
10	QPSK	1	1	20.89	21.06	20.45	22.4	0.0	

Part270 n78 Ant7											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				650000	650000	650000					
Frequency (MHz)				3750	3750	3750					
100	PI/2 BPSK	1	1		21.72		22.4	0.0			
100	PI/2 BPSK	1	137		21.65						
100	PI/2 BPSK	1	271		21.49						
100	PI/2 BPSK	135	0		21.38						
100	PI/2 BPSK	135	69		21.74		21.9	0.5			
100	PI/2 BPSK	135	138		21.03		21.9	0.5			
100	PI/2 BPSK	270	0		21.43		22.4	0.0			
100	QPSK	1	1		21.78						
100	QPSK	1	137		21.52						
100	QPSK	1	271		21.42						
100	QPSK	135	0		21.34		21.4	1.0			
100	QPSK	135	69		21.78		22.4	0.0			
100	QPSK	135	138		20.78		21.4	1.0			
100	QPSK	270	0		20.89		21.4	1.0			
100	16QAM	1	1		21.14						
100	64QAM	1	1		19.05					19.9	
100	256QAM	1	1		17.41					17.9	
Channel				64998	65000	65034	Tune-up limit				
Frequency (MHz)				3745.02	3750	3755.01	(dBm)				
90	QPSK	1	1	21.73	21.72	21.89	22.4	0.0			
Channel				649334	650000	650668	Tune-up limit				
Frequency (MHz)				3740.01	3750	3760.02	(dBm)				
80	QPSK	1	1	21.54	21.57	21.75	22.4	0.0			
Channel				649000	650000	651000	Tune-up limit				
Frequency (MHz)				3735	3750	3765	(dBm)				
70	QPSK	1	1	21.72	21.60	21.74	22.4	0.0			
Channel				648668	650000	651334	Tune-up limit				
Frequency (MHz)				3730.02	3750	3770.01	(dBm)				
60	QPSK	1	1	21.72	21.72	21.65	22.4	0.0			
Channel				648334	650000	651668	Tune-up limit				
Frequency (MHz)				3725.01	3750	3775.02	(dBm)				
50	QPSK	1	1	21.71	21.59	21.69	22.4	0.0			
Channel				648000	650000	652000	Tune-up limit				
Frequency (MHz)				3720	3750	3780	(dBm)				
40	QPSK	1	1	21.74	21.67	21.88	22.4	0.0			
Channel				647668	650000	652334	Tune-up limit				
Frequency (MHz)				3715.02	3750	3765.01	(dBm)				
30	QPSK	1	1	21.65	21.75	21.63	22.4	0.0			
Channel				647334	650000	652500	Tune-up limit				
Frequency (MHz)				3712.5	3750	3787.5	(dBm)				
25	QPSK	1	1	21.58	21.62	21.64	22.4	0.0			
Channel				647334	650000	652668	Tune-up limit				
Frequency (MHz)				3710.01	3750	3790.02	(dBm)				
20	QPSK	1	1	21.59	21.67	21.67	22.4	0.0			
Channel				647188	650000	652834	Tune-up limit				
Frequency (MHz)				3707.52	3750	3792.51	(dBm)				
15	QPSK	1	1	21.73	21.65	21.70	22.4	0.0			
Channel				647000	650000	653000	Tune-up limit				
Frequency (MHz)				3705	3750	3795	(dBm)				
10	QPSK	1	1	21.75	21.68	21.76	22.4	0.0			



Part270 n77 Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	23.21	22.30	23.15	24.0	0.0	
100	PI2 BPSK	1	137	22.15	22.19	22.13			
100	PI2 BPSK	1	271	23.05	23.15	23.00			
100	PI2 BPSK	135	0	22.61	22.76	22.65			
100	PI2 BPSK	135	69	23.18	23.23	23.07	24.0	0.5	
100	PI2 BPSK	135	138	22.52	22.68	22.58	23.5	0.5	
100	PI2 BPSK	270	0	22.56	22.73	22.62			
100	QPSK	1	1	23.29	23.33	23.19	24.0	0.0	
100	QPSK	1	137	23.09	23.25	23.12			
100	QPSK	1	271	22.97	23.13	23.06			
100	QPSK	135	0	22.20	22.31	22.21			
100	QPSK	135	69	23.22	23.25	22.92	24.0	0.0	
100	QPSK	135	138	22.03	22.16	22.08	23.0	1.0	
100	QPSK	270	0	22.28	22.31	21.98			
100	16QAM	1	1	22.24	22.38	22.27	23.0	1.0	
100	64QAM	1	1	20.68	20.83	20.65	21.5	2.5	
100	256QAM	1	1	18.45	18.59	18.56	19.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	23.13	23.18	23.07	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.22	23.16	22.98	24.0	0.0	
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.25	23.20	22.95	24.0	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3840	3950.01			
60	QPSK	1	1	23.22	23.25	22.97	24.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.23	23.28	23.02	24.0	0.0	
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.20	23.18	22.95	24.0	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3953.01			
30	QPSK	1	1	23.15	23.20	23.02	24.0	0.0	
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	23.12	23.17	23.00	24.0	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.21	23.28	23.00	24.0	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	23.21	23.22	23.05	24.0	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.25	23.21	23.04	24.0	0.0	

Part270 n77 PC2 Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	26.26	25.23	24.56	26.5	0.0	
100	PI2 BPSK	1	137	26.17	25.15	24.54			
100	PI2 BPSK	1	271	26.21	25.27	24.67			
100	PI2 BPSK	135	0	25.78	24.84	24.30			
100	PI2 BPSK	135	69	26.23	25.21	24.57	26.0	0.5	
100	PI2 BPSK	135	138	25.64	24.63	24.06	26.0	0.5	
100	PI2 BPSK	270	0	25.70	24.77	24.24			
100	QPSK	1	1	26.32	25.29	24.62	26.5	0.0	
100	QPSK	1	137	26.28	25.26	24.53			
100	QPSK	1	271	26.13	25.13	24.51			
100	QPSK	135	0	25.37	24.31	23.71			
100	QPSK	135	69	26.25	25.30	24.62	26.5	0.0	
100	QPSK	135	138	25.13	24.11	24.53	25.5	1.0	
100	QPSK	270	0	25.24	24.32	23.75			
100	16QAM	1	1	25.40	24.48	23.93	25.5	1.0	
100	64QAM	1	1	23.82	22.74	22.17	24.0	2.5	
100	256QAM	1	1	21.54	20.56	20.11	22.0	4.5	
Channel				648668	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	26.17	25.12	24.52	26.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	26.29	25.12	24.50	26.5	0.0	
Channel				649000	650000	650000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	26.15	25.13	24.53	26.5	0.0	
Channel				648668	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.02	3840	3950.01			
60	QPSK	1	1	26.17	25.08	24.52	26.5	0.0	
Channel				648334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	26.21	25.13	24.57	26.5	0.0	
Channel				649000	650000	650000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	26.29	25.09	24.52	26.5	0.0	
Channel				647668	650000	654334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3713.02	3840	3953.01			
30	QPSK	1	1	26.28	25.20	24.52	26.5	0.0	
Channel				647500	650000	654500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	26.20	25.14	24.59	26.5	0.0	
Channel				647334	650000	654668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	26.15	25.16	24.58	26.5	0.0	
Channel				647168	650000	654834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	26.17	25.19	24.54	26.5	0.0	
Channel				647000	650000	655000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	26.26	25.19	24.59	26.5	0.0	

Part270 n78 Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		23.39		24.0	0.0	
100	PI2 BPSK	1	137		23.34				
100	PI2 BPSK	1	271		23.26				
100	PI2 BPSK	135	0		22.94				
100	PI2 BPSK	135	69		23.23		24.0	0.0	
100	PI2 BPSK	135	138		22.80		23.5	0.5	
100	PI2 BPSK	270	0		22.82				
100	QPSK	1	1		23.43		24.0	0.0	
100	QPSK	1	137		23.40				
100	QPSK	1	271		23.24				
100	QPSK	135	0		22.41				
100	QPSK	135	69		23.38		23.0	0.0	
100	QPSK	135	138		22.28		24.0	0.0	
100	QPSK	270	0		22.40		23.0	1.0	
100	16QAM	1	1		22.24		23.0	1.0	
100	64QAM	1	1		21.24		21.5	2.5	
100	256QAM	1	1		18.89		19.5	4.5	
Channel				646668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit	MPR	
90	QPSK	1	1	23.31	23.29	23.25	24.0	0.0	
Channel				646334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit	MPR	
80	QPSK	1	1	23.28	23.26	23.41	24.0	0.0	
Channel				645000	650000	651000			
Frequency (MHz)				3735	3750	3765	Tune-up limit	MPR	
70	QPSK	1	1	23.33	23.37	23.34	24.0	0.0	
Channel				646668	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit	MPR	
60	QPSK	1	1	23.32	23.32	23.59	24.0	0.0	
Channel				646334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit	MPR	
50	QPSK	1	1	23.39	23.38	23.36	24.0	0.0	
Channel				646000	650000	652000			
Frequency (MHz)				3720	3750	3780	Tune-up limit	MPR	
40	QPSK	1	1	23.30	23.35	23.29	24.0	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit	MPR	
30	QPSK	1	1	23.38	23.32	23.40	24.0	0.0	
Channel				647500	650000	652500			
Frequency (MHz)				3712.5	3750	3787.5	Tune-up limit	MPR	
25	QPSK	1	1	23.33	23.35	23.28	24.0	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit	MPR	
20	QPSK	1	1	23.39	23.28	23.29	24.0	0.0	
Channel				647168	650000	652834			
Frequency (MHz)				3707.52	3750	3792.51	Tune-up limit	MPR	
15	QPSK	1	1	23.27	23.28	23.32	24.0	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795	Tune-up limit	MPR	
10	QPSK	1	1	23.35	23.40	23.34	24.0	0.0	

Part270 n78 PC2 Ant8								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		25.81			
100	PI/2 BPSK	1	137		25.73		26.5	0.0
100	PI/2 BPSK	1	271		25.23			
100	PI/2 BPSK	135	0		25.38		26.0	0.5
100	PI/2 BPSK	135	69		25.84		26.5	0.0
100	PI/2 BPSK	135	138		25.37			
100	PI/2 BPSK	270	0		25.41		26.0	0.5
100	QPSK	1	1		25.26			
100	QPSK	1	137		25.59		26.5	0.0
100	QPSK	1	271		25.21			
100	QPSK	135	0		25.31		25.5	1.0
100	QPSK	135	69		25.88		26.5	0.0
100	QPSK	135	138		25.15			
100	QPSK	270	0		25.32		25.5	1.0
100	16QAM	1	1		24.97		25.5	1.0
100	64QAM	1	1		23.03		24.0	2.5
100	256QAM	1	1		21.52		22.0	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	25.84	25.85	25.93	26.5	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	25.91	25.78	25.80	26.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	25.91	25.82	25.84	26.5	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	25.90	25.88	25.87	26.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	25.80	25.91	25.88	26.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	25.93	25.82	25.91	26.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	25.92	25.91	25.81	26.5	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	25.81	25.82	25.85	26.5	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	25.86	25.92	25.89	26.5	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	25.79	25.93	25.87	26.5	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	25.93	25.88	25.81	26.5	0.0



Part270 n77 Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	22.37	22.42	22.25	24.0	0.0	
100	P12 BPSK	1	137	22.29	22.39	22.31			
100	P12 BPSK	1	271	22.25	22.28	22.12			
100	P12 BPSK	135	0	22.00	22.04	21.94			
100	P12 BPSK	135	69	22.16	22.33	22.26	24.0	0.0	
100	P12 BPSK	135	138	21.66	21.69	21.55	23.5	0.5	
100	P12 BPSK	270	0	21.80	21.87	21.74	24.0	0.0	
100	QPSK	1	1	22.42	22.46	22.39			
100	QPSK	1	137	22.30	22.37	22.19			
100	QPSK	1	271	22.14	22.31	22.26			
100	QPSK	135	0	21.49	21.53	21.42	23.0	1.0	
100	QPSK	135	69	22.38	22.41	22.33	24.0	0.0	
100	QPSK	135	138	21.33	21.36	21.25	23.0	1.0	
100	QPSK	270	0	21.35	21.43	21.40	23.0	1.0	
100	16QAM	1	1	21.43	21.59	21.46			
100	64QAM	1	1	20.18	20.27	20.12			
100	256QAM	1	1	17.88	17.94	17.78			
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.35	22.40	22.33	24.0	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.34	22.42	22.33	24.0	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.28	22.46	22.29	24.0	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.35	22.38	22.27	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.38	22.39	22.30	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.35	22.34	22.29	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.25	22.43	22.29	24.0	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.28	22.35	22.30	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.34	22.38	22.26	24.0	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.39	22.31	22.28	24.0	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.39	22.41	22.25	24.0	0.0	

Part270 n77 PC2 Ant9												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)				
Channel												
Frequency (MHz)												
100	P12 BPSK	1	1	25.38	25.44	25.32	27.0	0.0				
100	P12 BPSK	1	137	25.35	25.40	25.33						
100	P12 BPSK	1	271	25.21	25.33	25.17						
100	P12 BPSK	135	0	24.83	24.99	24.94	26.5	0.5				
100	P12 BPSK	135	69	25.35	25.41	25.38	27.0	0.0				
100	P12 BPSK	135	138	24.84	24.94	24.85	26.5	0.5				
100	P12 BPSK	270	0	24.89	24.96	24.83	27.0	0.0				
100	QPSK	1	1	25.42	25.48	25.37						
100	QPSK	1	137	25.28	25.39	25.27						
100	QPSK	1	271	25.25	25.36	25.28						
100	QPSK	135	0	24.33	24.41	24.27	26.0	1.0				
100	QPSK	135	69	25.39	25.45	25.41	27.0	0.0				
100	QPSK	135	138	24.27	24.39	24.30	26.0	1.0				
100	QPSK	270	0	24.41	24.43	24.41	26.0	1.0				
100	16QAM	1	1	24.45	24.58	24.45						
100	64QAM	1	1	23.28	23.31	23.17						
100	256QAM	1	1	20.89	20.94	20.78						
Channel												
Frequency (MHz)												
90	QPSK	1	1	25.40	25.45	25.20	Tune-up limit (dbm)	MPR (db)				
Channel												
Frequency (MHz)												
80	QPSK	1	1	25.28	25.44	25.19	Tune-up limit (dbm)	MPR (db)				
Channel												
Frequency (MHz)												
70	QPSK	1	1	25.39	25.42	25.21	Tune-up limit (dbm)	MPR (db)				
Channel												
Frequency (MHz)												
60	QPSK	1	1	25.27	25.40	25.22	Tune-up limit (dbm)	MPR (db)				
Channel												
Frequency (MHz)												
50	QPSK	1	1	25.27	25.35	25.32	Tune-up limit (dbm)	MPR (db)				
Channel												
Frequency (MHz)												
40	QPSK	1	1	25.37	25.38	25.28	Tune-up limit (dbm)	MPR (db)				
Channel												
Frequency (MHz)												
30	QPSK	1	1	25.32	25.39	25.21	Tune-up limit (dbm)	MPR (db)				
Channel												
Frequency (MHz)												
25	QPSK	1	1	25.25	25.38	25.22	Tune-up limit (dbm)	MPR (db)				
Channel												
Frequency (MHz)												
20	QPSK	1	1	25.25	25.41	25.21	Tune-up limit (dbm)	MPR (db)				
Channel												
Frequency (MHz)												
15	QPSK	1	1	25.37	25.38	25.30	Tune-up limit (dbm)	MPR (db)				
Channel												
Frequency (MHz)												
10	QPSK	1	1	25.37	25.48	25.28	Tune-up limit (dbm)	MPR (db)				

Part270 n78 Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	22.55	3750	3750	24.0	0.0	
100	P12 BPSK	1	137	22.46					
100	P12 BPSK	1	271	22.03					
100	P12 BPSK	135	0	22.11			23.5	0.5	
100	P12 BPSK	135	69				24.0	0.0	
100	P12 BPSK	135	138		21.78		23.5	0.5	
100	P12 BPSK	270	0		21.84		24.0	0.0	
100	QPSK	1	1	22.04					
100	QPSK	1	137	22.36					
100	QPSK	1	271	22.03					
100	QPSK	135	0		21.84		23.0	1.0	
100	QPSK	135	69		22.59		24.0	0.0	
100	QPSK	135	138		21.26		23.0	1.0	
100	QPSK	270	0		21.47		23.0	1.0	
100	16QAM	1	1		21.72				
100	64QAM	1	1		20.26		21.5	2.5	
100	256QAM	1	1		17.97		19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64668	65000	65034	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3750.01			
				22.58	22.58	22.51	24.0	0.0	
Channel									
				646334	65000	650668	Tune-up limit (dBm)	MPR (dB)	
				3750.01	3750	3760.02			
80	QPSK	1	1	22.47	22.56	22.61	24.0	0.0	
Channel									
				645000	65000	651000	Tune-up limit (dBm)	MPR (dB)	
				3735	3750	3765			
70	QPSK	1	1	22.80	22.54	22.53	24.0	0.0	
Channel									
				646668	65000	651334	Tune-up limit (dBm)	MPR (dB)	
				3740.02	3750	3770.01			
60	QPSK	1	1	22.54	22.57	22.54	24.0	0.0	
Channel									
				646334	65000	651668	Tune-up limit (dBm)	MPR (dB)	
				3725.01	3750	3775.02			
50	QPSK	1	1	22.58	22.53	22.61	24.0	0.0	
Channel									
				646000	65000	652000	Tune-up limit (dBm)	MPR (dB)	
				3720	3750	3780			
40	QPSK	1	1	22.48	22.62	22.61	24.0	0.0	
Channel									
				647688	65000	652334	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3765.01			
30	QPSK	1	1	22.59	22.61	22.57	24.0	0.0	
Channel									
				647500	65000	652500	Tune-up limit (dBm)	MPR (dB)	
				3712.5	3750	3787.5			
25	QPSK	1	1	22.62	22.60	22.52	24.0	0.0	
Channel									
				647334	65000	652668	Tune-up limit (dBm)	MPR (dB)	
				3740.01	3750	3760.02			
20	QPSK	1	1	22.51	22.48	22.54	24.0	0.0	
Channel									
				647168	65000	652834	Tune-up limit (dBm)	MPR (dB)	
				3707.52	3750	3792.51			
15	QPSK	1	1	22.53	22.47	22.58	24.0	0.0	
Channel									
				647000	65000	653000	Tune-up limit (dBm)	MPR (dB)	
				3705	3750	3795			
10	QPSK	1	1	22.61	22.49	22.57	24.0	0.0	

Part270 n78 PC2 Ant9								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq 650000	Power Middle Ch / Freq 650000	Power High Ch / Freq 650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		25.60			
100	PI/2 BPSK	1	137		25.57		27.0	0.0
100	PI/2 BPSK	1	271		25.51			
100	PI/2 BPSK	135	0		25.18		28.5	0.5
100	PI/2 BPSK	135	69		25.64		27.0	0.0
100	PI/2 BPSK	135	138		25.07			
100	PI/2 BPSK	270	0		25.12		28.5	0.5
100	QPSK	1	1		25.74			
100	QPSK	1	137		25.60		27.0	0.0
100	QPSK	1	271		25.52			
100	QPSK	135	0		24.67		26.0	1.0
100	QPSK	135	69		25.71		27.0	0.0
100	QPSK	135	138		24.57			
100	QPSK	270	0		24.68		26.0	1.0
100	16QAM	1	1		24.85		26.0	1.0
100	64QAM	1	1		23.14		24.5	2.5
100	256QAM	1	1		20.62		22.5	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	25.57	25.62	25.63	27.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	25.69	25.68	25.69	27.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	25.61	25.66	25.57	27.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	25.60	25.72	25.66	27.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	25.62	25.64	25.71	27.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	25.59	25.58	25.72	27.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	25.69	25.67	25.71	27.0	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	25.58	25.60	25.58	27.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	25.62	25.61	25.59	27.0	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	25.56	25.70	25.61	27.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	25.62	25.71	25.72	27.0	0.0

Reduced Power Mode for DS13 Standalone

n5 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800	24.0	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	23.04	23.13	22.99	24.0	0.0	
20	PI2 BPSK	1	53	22.90	23.03	22.93			
20	PI2 BPSK	1	104	23.00	23.10	22.97	23.5	0.5	
20	PI2 BPSK	50	0	22.96	22.84	22.55			
20	PI2 BPSK	50	28	22.82	22.98	22.85	24.0	0.0	
20	PI2 BPSK	50	56	22.57	22.70	22.53	23.5	0.5	
20	PI2 BPSK	100	0	22.61	22.73	22.58			
20	QPSK	1	1	23.16	23.19	23.02	24.0	0.0	
20	QPSK	1	53	22.88	23.06	22.91			
20	QPSK	1	104	23.09	23.12	23.04	23.0	1.0	
20	QPSK	50	0	22.15	22.17	22.13			
20	QPSK	50	28	23.11	23.14	23.08	24.0	0.0	
20	QPSK	50	56	22.12	22.22	22.06	23.0	1.0	
20	QPSK	100	0	22.28	22.31	22.24			
20	16QAM	1	1	22.02	22.05	21.96	23.0	1.0	
20	64QAM	1	1	20.87	21.02	20.95	21.5	2.5	
20	256QAM	1	1	18.39	18.49	18.37	19.5	4.5	
Channel				165300	167000	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0	
15	QPSK	1	1	23.03	23.10	22.97			
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				820	836.5	844	24.0	0.0	
10	QPSK	1	1	23.05	23.02	22.95			
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	24.0	0.0	
5	QPSK	1	1	23.09	23.04	22.85			

n41 DSI3 Standalone Ant0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505202	518598	530998	23.4	0.0
Frequency (MHz)				2548.01	2592.99	2640		
100	PV2 BPSK	1	1	22.22	22.25	22.12	23.4	0.0
100	PV2 BPSK	1	137	22.01	22.17	22.13		
100	PV2 BPSK	1	271	22.04	22.12	22.17	23.4	0.0
100	PV2 BPSK	135	0	22.04	22.15	22.19		
100	PV2 BPSK	135	69	22.03	22.19	22.17	23.4	0.0
100	PV2 BPSK	135	138	22.01	22.22	22.11		
100	PV2 BPSK	270	0	22.01	22.20	22.08	23.4	0.0
100	QPSK	1	1	22.18	22.29	22.24		
100	QPSK	1	137	22.03	22.21	22.09	23.0	0.4
100	QPSK	1	271	22.02	22.22	22.20		
100	QPSK	135	0	22.09	22.08	22.07	23.4	0.0
100	QPSK	135	69	22.06	22.11	22.07		
100	QPSK	135	138	22.01	22.08	22.03	23.0	0.4
100	QPSK	270	0	22.14	22.21	22.11		
100	16QAM	1	1	21.88	22.00	21.96	23.0	1.9
100	64QAM	1	1	20.57	20.88	20.62		
100	256QAM	1	1	18.36	18.54	18.37	19.5	3.9
Channel				505202	518598	530998		
Frequency (MHz)				2541	2592.99	2644.98	23.4	0.0
90	QPSK	1	1	22.12	22.25	22.21		
Channel				507204	518598	529998	23.4	0.0
Frequency (MHz)				2538.02	2592.99	2643.99		
80	QPSK	1	1	22.03	22.12	22.19	23.4	0.0
Channel				505202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655	23.4	0.0
70	QPSK	1	1	22.00	22.22	22.18		
Channel				505200	518598	531996	23.4	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.05	22.23	22.19	23.4	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.98	23.4	0.0
50	QPSK	1	1	22.04	22.20	22.07		
Channel				503202	518598	534000	23.4	0.0
Frequency (MHz)				2516.01	2592.99	2679		
40	QPSK	1	1	22.02	22.15	22.18	23.4	0.0
Channel				502200	518598	534996		
Frequency (MHz)				22.01	22.24	22.22	23.4	0.0
30	QPSK	1	1	22.01	22.24	22.22		
Channel				501204	518598	535998	23.4	0.0
Frequency (MHz)				22.06	22.24	22.17		
20	QPSK	1	1	22.16	22.24	22.17	23.4	0.0
Channel				500700	518598	536496		
Frequency (MHz)				22.07	22.18	22.21	23.4	0.0
15	QPSK	1	1	22.07	22.18	22.21		
Channel				500202	518598	537000	23.4	0.0
Frequency (MHz)				22.05	22.16	22.16		
10	QPSK	1	1	22.05	22.16	22.16	23.4	0.0
Channel				22.05	22.16	22.16		



n2 Default Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000	18.5	0.0	
Frequency (MHz)				1860	1880	1900			
20	P12 BPSK	1	1	18.16	18.09	18.11	18.5	0.0	
20	P12 BPSK	1	53	17.97	18.14	17.95			
20	P12 BPSK	1	104	17.92	17.94	17.90			
20	P12 BPSK	50	0	17.76	17.79	17.59	18.5	0.0	
20	P12 BPSK	50	28	18.10	18.04	17.99	18.5	0.0	
20	P12 BPSK	50	58	17.58	17.73	17.64	18.5	0.0	
20	P12 BPSK	100	0	17.86	17.78	17.81	18.5	0.0	
20	QPSK	1	1	18.10	18.17	18.14			
20	QPSK	1	53	18.01	18.08	18.05			
20	QPSK	1	104	17.81	18.07	17.90	18.5	0.0	
20	QPSK	50	0	17.07	17.27	17.12			
20	QPSK	50	28	17.98	18.16	18.05			
20	QPSK	50	58	17.20	17.24	17.16	18.5	0.0	
20	QPSK	100	0	17.16	17.46	17.19	18.5	0.0	
20	16QAM	1	1	17.00	17.03	16.85			
20	64QAM	1	1	17.11	17.19	17.09			
20	256QAM	1	1	17.17	17.28	17.11	18.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5	18.5	0.0	
15	QPSK	1	1	18.01	17.97	18.05			
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1900	1905	18.5	0.0	
10	QPSK	1	1	17.88	17.93	18.07			
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5	18.5	0.0	
5	QPSK	1	1	17.92	18.01	17.97			

n7 Default Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000	19.7	0.0	
Frequency (MHz)				2520	2535	2550			
40	P12 BPSK	1	1	18.82	18.40	18.89	19.7	0.0	
40	P12 BPSK	1	108	18.93	18.95	18.88			
40	P12 BPSK	1	214	18.85	18.96	18.92			
40	P12 BPSK	108	0	18.59	18.82	18.51	19.7	0.0	
40	P12 BPSK	108	54	18.98	18.96	18.90	19.7	0.0	
40	P12 BPSK	108	108	18.42	18.53	18.44	19.7	0.0	
40	P12 BPSK	216	0	18.48	18.64	18.55	19.7	0.0	
40	QPSK	1	1	18.92	18.99	18.98			
40	QPSK	1	108	18.88	18.93	18.75			
40	QPSK	1	214	18.81	18.88	18.77	19.7	0.0	
40	QPSK	108	0	18.73	18.83	18.59			
40	QPSK	108	54	18.89	18.92	18.87			
40	QPSK	108	108	18.72	18.77	18.69	19.7	0.0	
40	QPSK	216	0	18.66	18.82	18.80	19.7	0.0	
40	16QAM	1	1	18.75	18.80	18.73	19.7	0.0	
40	64QAM	1	1	18.78	18.77	18.69	19.7	0.0	
40	256QAM	1	1	18.42	18.30	18.48	19.2	0.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	19.7	0.0	
30	QPSK	1	1	18.91	18.87	18.94			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	19.7	0.0	
25	QPSK	1	1	18.85	18.94	18.91			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	19.7	0.0	
20	P12 BPSK	1	1	18.88	18.89	18.78			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	19.7	0.0	
15	QPSK	1	1	18.89	18.73	18.89			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	19.7	0.0	
10	QPSK	1	1	18.79	18.81	18.81			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	19.7	0.0	
5	QPSK	1	1	18.85	18.88	18.79			

n66 DSI3 Standalone Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	18.2	0.0	
Frequency (MHz)				1730	1745	1760			
40	P12 BPSK	1	1	16.76	16.79	16.75	18.2	0.0	
40	P12 BPSK	1	108	16.71	16.90	16.89			
40	P12 BPSK	1	214	16.85	16.83	16.82			
40	P12 BPSK	108	0	16.87	16.86	16.86	18.2	0.0	
40	P12 BPSK	108	54	16.86	16.72	16.70	18.2	0.0	
40	P12 BPSK	108	108	16.87	16.87	16.66	18.2	0.0	
40	P12 BPSK	216	0	16.84	16.86	16.59	18.2	0.0	
40	QPSK	1	1	17.02	17.08	16.89			
40	QPSK	1	108	16.85	16.90	16.79			
40	QPSK	1	214	16.85	16.77	16.64	18.2	0.0	
40	QPSK	108	0	16.73	16.82	16.75			
40	QPSK	108	54	16.82	16.91	16.82			
40	QPSK	108	108	16.75	16.87	16.83	18.2	0.0	
40	QPSK	216	0	16.70	16.85	16.76	18.2	0.0	
40	16QAM	1	1	16.72	16.75	16.57			
40	64QAM	1	1	16.54	16.79	16.66			
40	256QAM	1	1	16.83	16.90	16.68	18.2	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	18.2	0.0	
30	QPSK	1	1	16.89	16.89	16.85			
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5	18.2	0.0	
25	QPSK	1	1	16.84	17.05	16.77			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	18.2	0.0	
20	QPSK	1	1	16.93	16.90	16.77			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	18.2	0.0	
15	QPSK	1	1	16.97	16.82	16.72			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	18.2	0.0	
10	QPSK	1	1	16.84	16.85	16.87			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	18.2	0.0	
5	QPSK	1	1	16.87	16.86	16.76			



n2 Default Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000	24.0	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	22.68	22.70	22.61			
20	PI2 BPSK	1	53	22.50	22.63	22.57			
20	PI2 BPSK	1	104	22.58	22.62	22.59	23.5	0.5	
20	PI2 BPSK	50	0	22.27	22.39	22.27	23.5	0.5	
20	PI2 BPSK	50	28	22.62	22.72	22.64	24.0	0.0	
20	PI2 BPSK	50	58	22.13	22.28	22.16	23.5	0.5	
20	PI2 BPSK	100	0	22.18	22.33	22.26	24.0	0.0	
20	QPSK	1	1	22.66	22.76	22.73			
20	QPSK	1	53	22.58	22.65	22.63			
20	QPSK	1	104	22.48	22.60	22.57			
20	QPSK	50	0	21.79	21.86	21.78	23.0	1.0	
20	QPSK	50	28	22.61	22.73	22.69	24.0	0.0	
20	QPSK	50	58	21.61	21.76	21.64	23.0	1.0	
20	QPSK	100	0	21.70	21.74	21.69	23.0	1.0	
20	16QAM	1	1	21.31	21.47	21.42			
20	64QAM	1	1	20.39	20.53	20.50			
20	256QAM	1	1	18.23	18.28	18.23			
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	24.0	0.0	
15	QPSK	1	1	22.52	22.71	22.62	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1920	1905	24.0	0.0	
10	QPSK	1	1	22.58	22.67	22.68	24.0	0.0	
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5	24.0	0.0	
5	QPSK	1	1	22.52	22.61	22.68	24.0	0.0	

n7 DSI3 Standalone Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000	21.5	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	20.30	20.32	20.13			
40	PI2 BPSK	1	108	20.14	20.18	20.10			
40	PI2 BPSK	1	214	20.24	20.28	20.09	21.5	0.0	
40	PI2 BPSK	108	0	20.07	20.21	20.25	21.5	0.0	
40	PI2 BPSK	108	54	20.18	20.24	20.18	21.5	0.0	
40	PI2 BPSK	108	108	20.16	20.22	20.15	21.5	0.0	
40	PI2 BPSK	216	0	20.24	20.35	20.02	21.5	0.0	
40	QPSK	1	1	20.30	20.37	20.33			
40	QPSK	1	108	20.23	20.36	20.31			
40	QPSK	1	214	20.24	20.23	20.05			
40	QPSK	108	0	20.12	20.25	20.24	20.5	1.0	
40	QPSK	108	54	20.14	20.32	20.25	21.5	0.0	
40	QPSK	108	108	20.05	20.15	20.28	20.5	1.0	
40	QPSK	216	0	20.18	20.30	20.18	21.5	0.0	
40	16QAM	1	1	20.21	20.31	20.17			
40	64QAM	1	1	20.13	20.22	20.10			
40	256QAM	1	1	18.79	18.78	18.64			
Channel				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	21.5	0.0	
30	QPSK	1	1	20.15	20.28	20.22	21.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	21.5	0.0	
25	QPSK	1	1	20.23	20.29	20.30	21.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	21.5	0.0	
20	PI2 BPSK	1	1	20.28	20.27	20.22	21.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	21.5	0.0	
15	QPSK	1	1	20.30	20.20	20.06	21.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	21.5	0.0	
10	QPSK	1	1	20.19	20.28	20.22	21.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	21.5	0.0	
5	QPSK	1	1	20.12	20.26	20.20	21.5	0.0	

n66 Default Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	24.0	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	22.59	22.63	22.51			
40	PI2 BPSK	1	108	22.47	22.56	22.49			
40	PI2 BPSK	1	214	22.45	22.60	22.45	23.5	0.5	
40	PI2 BPSK	108	0	22.11	22.15	22.10	23.5	0.5	
40	PI2 BPSK	108	54	22.51	22.59	22.49	24.0	0.0	
40	PI2 BPSK	108	108	21.97	22.05	21.91	23.5	0.5	
40	PI2 BPSK	216	0	22.09	22.11	21.99	24.0	0.0	
40	QPSK	1	1	22.71	22.76	22.64			
40	QPSK	1	108	22.43	22.53	22.41			
40	QPSK	1	214	22.47	22.51	22.47			
40	QPSK	108	0	21.53	21.64	21.46	23.0	1.0	
40	QPSK	108	54	22.62	22.69	22.59	24.0	0.0	
40	QPSK	108	108	21.51	21.63	21.52	23.0	1.0	
40	QPSK	216	0	21.81	21.86	21.57	23.0	1.0	
40	16QAM	1	1	21.76	21.87	21.81			
40	64QAM	1	1	20.36	20.52	20.35			
40	256QAM	1	1	17.90	18.02	17.89			
Channel				345500	349000	352500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1727.5	1745	1762.5	24.0	0.0	
35	QPSK	1	1	22.80	22.62	22.59	24.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	22.85	22.68	22.64	24.0	0.0	
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5	24.0	0.0	
25	QPSK	1	1	22.85	22.67	22.47	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	22.93	22.64	22.49	24.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	22.83	22.59	22.62	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	22.60	22.62	22.61	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	22.65	22.73	22.58	24.0	0.0	

n38 Ant1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				516004	519000	519996	20.2	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	19.61	19.64	19.51		
40	PI/2 BPSK	1	53	19.45	19.55	19.62	20.2	0.0
40	PI/2 BPSK	1	104	19.51	19.52	19.48		
40	PI/2 BPSK	50	0	18.97	19.15	19.00		
40	PI/2 BPSK	50	28	19.54	19.66	19.62	20.2	0.0
40	PI/2 BPSK	50	56	18.85	19.00	18.80		
40	PI/2 BPSK	100	0	18.90	18.95	18.92		
40	QPSK	1	1	19.67	19.69	19.60	20.2	0.0
40	QPSK	1	53	19.64	19.68	19.60		
40	QPSK	1	104	19.59	19.58	19.43		
40	QPSK	50	0	18.47	18.65	18.39	20.2	0.0
40	QPSK	50	28	19.65	19.72	19.58		
40	QPSK	80	56	18.33	18.48	18.31		
40	QPSK	100	0	18.43	18.62	18.45	20.2	0.0
40	16QAM	1	1	18.48	18.51	18.44		
40	64QAM	1	1	18.54	18.58	18.43		
40	256QAM	1	1	18.57	18.52	18.42	20.2	0.0
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	19.63	19.53	19.60	20.2	0.0
Channel				516504	519000	521496		
Frequency (MHz)				2552.52	2595	2607.48		
25	QPSK	1	1	19.57	19.57	19.49	20.2	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	19.58	19.50	19.67	20.2	0.0
Channel				515502	519000	524998		
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	19.60	19.61	19.63	20.2	0.0
Channel				515004	519000	525998		
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	19.63	19.67	19.55	20.2	0.0

n41 Ant1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502002	518998	520000	20.2	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	18.81	18.84	18.85		
100	PI/2 BPSK	1	137	18.82	18.90	18.65	20.2	0.0
100	PI/2 BPSK	1	271	18.69	18.85	18.71		
100	PI/2 BPSK	135	0	18.29	18.50	18.30		
100	PI/2 BPSK	135	69	18.69	18.74	18.76	20.2	0.0
100	PI/2 BPSK	135	138	18.34	18.30	18.31		
100	PI/2 BPSK	270	0	18.32	18.34	18.32		
100	QPSK	1	1	18.32	18.36	18.34	20.2	0.0
100	QPSK	1	137	18.71	18.78	18.59		
100	QPSK	1	271	18.68	18.67	18.65		
100	QPSK	135	0	18.55	18.56	18.54	20.2	0.0
100	QPSK	135	69	18.82	18.89	18.76		
100	QPSK	135	138	18.40	18.61	18.51		
100	QPSK	270	0	18.51	18.59	18.52	20.2	0.0
100	16QAM	1	1	18.49	18.72	18.63		
100	64QAM	1	1	18.24	18.47	18.38		
100	256QAM	1	1	18.25	18.52	18.37	18.0	2.2
Channel				502000	518998	520998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.61	18.86	18.85	20.2	0.0
Channel				507204	518998	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	18.64	18.77	18.79	20.2	0.0
Channel				506202	518998	531000		
Frequency (MHz)				2531.01	2592.99	2665		
70	QPSK	1	1	18.65	18.79	18.79	20.2	0.0
Channel				505200	518998	531998		
Frequency (MHz)				2524	2592.99	2659.98		
60	QPSK	1	1	18.67	18.72	18.77	20.2	0.0
Channel				504204	518998	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	18.69	18.85	18.82	20.2	0.0
Channel				503202	518998	534000		
Frequency (MHz)				2516.01	2592.99	2674.98		
40	QPSK	1	1	18.70	18.79	18.81	20.2	0.0
Channel				502200	518998	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.55	18.73	18.82	20.2	0.0
Channel				501204	518998	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.70	18.83	18.82	20.2	0.0
Channel				500700	518998	536498		
Frequency (MHz)				2503.15	2592.99	2684.48		
15	QPSK	1	1	18.76	18.74	18.85	20.2	0.0
Channel				500202	518998	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	18.54	18.88	18.72	20.2	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3840	3930		
100	P12 BPSK	1	1	15.48	15.58	15.28		
100	P12 BPSK	1	137	15.25	15.38	15.19	16.2	0.0
100	P12 BPSK	1	271	15.10	15.35	15.22		
100	P12 BPSK	135	0	15.49	15.56	15.28	16.2	0.0
100	P12 BPSK	135	69	15.25	15.38	15.18	16.2	0.0
100	P12 BPSK	135	138	15.09	15.35	15.22	16.2	0.0
100	P12 BPSK	270	0	15.49	15.57	15.29		
100	QPSK	1	1	15.55	15.60	15.35		
100	QPSK	1	137	15.31	15.44	15.25	16.2	0.0
100	QPSK	1	271	15.16	15.41	15.28		
100	QPSK	135	0	15.22	15.35	15.17	16.2	0.0
100	QPSK	135	69	15.34	15.52	15.15	16.2	0.0
100	QPSK	135	138	15.42	15.44	15.26	16.2	0.0
100	QPSK	270	0	15.23	15.45	15.16		
100	16QAM	1	1	15.07	15.32	15.19	16.2	0.0
100	64QAM	1	1	15.13	15.26	15.09	16.2	0.0
100	256QAM	1	1	15.25	15.43	15.05	16.2	0.0
Channel				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	15.25	15.40	15.24	16.2	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	15.47	15.37	15.10	16.2	0.0
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	15.37	15.41	15.14	16.2	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.02	3840	3950.01		
60	QPSK	1	1	15.37	15.50	15.22	16.2	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	15.46	15.50	15.18	16.2	0.0
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	15.39	15.43	15.18	16.2	0.0
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3713.02	3840	3953.01		
30	QPSK	1	1	15.31	15.43	15.21	16.2	0.0
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	15.29	15.33	15.19	16.2	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	15.47	15.49	15.16	16.2	0.0
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	15.43	15.44	15.17	16.2	0.0
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	15.50	15.38	15.28	16.2	0.0

Part270 n77 PC2 DSI3 Standalone Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3840	3930		
100	P12 BPSK	1	1	18.43	18.48	18.46		
100	P12 BPSK	1	137	18.41	18.45	18.43	19.2	0.0
100	P12 BPSK	1	271	18.35	18.40	18.38		
100	P12 BPSK	135	0	18.32	18.37	18.34	19.2	0.0
100	P12 BPSK	135	69	18.35	18.40	18.38	19.2	0.0
100	P12 BPSK	135	138	18.33	18.37	18.35	19.2	0.0
100	P12 BPSK	270	0	18.36	18.41	18.39		
100	QPSK	1	1	18.55	18.60	18.58		
100	QPSK	1	137	18.34	18.39	18.37	19.2	0.0
100	QPSK	1	271	18.32	18.38	18.34		
100	QPSK	135	0	18.25	18.31	18.29	19.2	0.0
100	QPSK	135	69	18.49	18.54	18.52	19.2	0.0
100	QPSK	135	138	18.32	18.36	18.34	19.2	0.0
100	QPSK	270	0	18.45	18.51	18.48		
100	16QAM	1	1	18.32	18.37	18.35	19.2	0.0
100	64QAM	1	1	18.30	18.34	18.32	19.2	0.0
100	256QAM	1	1	18.24	18.30	18.27	19.2	0.0
Channel				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.44	18.49	18.47	19.2	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.23	18.28	18.20	19.2	0.0
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	18.21	18.25	18.23	19.2	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.02	3840	3950.01		
60	QPSK	1	1	18.15	18.19	18.18	19.2	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.38	18.42	18.41	19.2	0.0
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.21	18.25	18.23	19.2	0.0
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3713.02	3840	3953.01		
30	QPSK	1	1	18.34	18.39	18.37	19.2	0.0
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	18.21	18.26	18.23	19.2	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.42	18.47	18.45	19.2	0.0
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	18.36	18.41	18.39	19.2	0.0
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	18.42	18.47	18.45	19.2	0.0

Part270 n78 DSI3 Standalone Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	P12 BPSK	1	1		15.50			
100	P12 BPSK	1	137		15.29		16.2	0.0
100	P12 BPSK	1	271		15.27			
100	P12 BPSK	135	0		15.47		16.2	0.0
100	P12 BPSK	135	69		15.29		16.2	0.0
100	P12 BPSK	135	138		15.25		16.2	0.0
100	P12 BPSK	270	0		15.49			
100	QPSK	1	1		15.59			
100	QPSK	1	137		15.35		16.2	0.0
100	QPSK	1	271		15.32			
100	QPSK	135	0		15.26		16.2	0.0
100	QPSK	135	69		15.43		16.2	0.0
100	QPSK	135	138		15.36		16.2	0.0
100	QPSK	270	0		15.37			
100	16QAM	1	1		15.23		16.2	0.0
100	64QAM	1	1		15.17		16.2	0.0
100	256QAM	1	1		15.34		16.2	0.0
Channel				649868	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	15.50	15.51	15.43	16.2	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	15.49	15.48	15.33	16.2	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	15.54	15.38	15.55	16.2	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.02	3750	3770.01		
60	QPSK	1	1	15.52	15.52	15.54	16.2	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	15.40	15.42	15.44	16.2	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	15.47	15.54	15.47	16.2	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3713.02	3750	3763.01		
30	QPSK	1	1	15.56	15.53	15.26	16.2	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3767.5		
25	QPSK	1	1	15.56	15.55	15.40	16.2	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3760.02		
20	QPSK	1	1	15.47	15.44	15.51	16.2	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	15.48	15.46	15.52	16.2	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	15.55	15.42	15.53	16.2	0.0

Part270 n78 PC2 DSI3 Standalone Ant8								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		18.44			
100	PI2 BPSK	1	137		18.41		19.2	0.0
100	PI2 BPSK	1	271		18.36			
100	PI2 BPSK	135	0		18.32		19.2	0.0
100	PI2 BPSK	135	69		18.36		19.2	0.0
100	PI2 BPSK	135	138		18.32		19.2	0.0
100	PI2 BPSK	270	0		18.37			
100	QPSK	1	1		18.36			
100	QPSK	1	137		18.35		19.2	0.0
100	QPSK	1	271		18.32			
100	QPSK	135	0		18.27		19.2	0.0
100	QPSK	135	69		18.50		19.2	0.0
100	QPSK	135	138		18.32			
100	QPSK	270	0		18.47		19.2	0.0
100	16QAM	1	1		18.33		19.2	0.0
100	64QAM	1	1		18.30		19.2	0.0
100	256QAM	1	1		18.25		19.2	0.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	18.40	18.45	18.43	19.2	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	18.19	18.23	18.22	19.2	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	18.17	18.21	18.19	19.2	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	18.10	18.15	18.14	19.2	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	18.34	18.38	18.37	19.2	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	18.17	18.21	18.19	19.2	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	18.30	18.36	18.33	19.2	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	18.17	18.22	18.19	19.2	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	18.38	18.43	18.41	19.2	0.0
Channel				647188	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	18.32	18.37	18.35	19.2	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	18.38	18.43	18.41	19.2	0.0



Part270 n77 DS13 Standalone Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	20.79	20.66	20.70	21.5	0.0	
100	P12 BPSK	1	137	20.75	20.82	20.78			
100	P12 BPSK	1	271	20.69	20.71	20.57			
100	P12 BPSK	135	0	20.81	20.77	20.69			
100	P12 BPSK	135	69	20.75	20.81	20.78	21.5	0.0	
100	P12 BPSK	135	138	20.70	20.73	20.56	21.5	0.0	
100	P12 BPSK	270	0	20.79	20.86	20.69			
100	QPSK	1	1	20.74	20.92	20.77	21.5	0.0	
100	QPSK	1	137	20.70	20.72	20.57			
100	QPSK	1	271	20.80	20.75	20.69			
100	QPSK	135	0	20.76	20.82	20.78			
100	QPSK	135	69	20.69	20.88	20.55	21.5	0.0	
100	QPSK	135	138	20.79	20.66	20.69	21.5	0.0	
100	QPSK	270	0	20.74	20.81	20.79			
100	16QAM	1	1	20.70	20.71	20.57	21.5	0.0	
100	64QAM	1	1	20.66	20.67	20.67	21.5	0.0	
100	256QAM	1	1	18.83	18.88	18.73	19.5	2.0	
Channel				3745.02	3840	3935.01	Tune-up limit MPR		
90	QPSK	1	1	20.68	20.86	20.71	21.5	0.0	
Channel				649334	650000	650968	Tune-up limit MPR		
80	QPSK	1	1	20.64	20.66	20.51	21.5	0.0	
Channel				649000	650000	650000	Tune-up limit MPR		
70	QPSK	1	1	20.74	20.69	20.63	21.5	0.0	
Channel				648668	650000	650334	Tune-up limit MPR		
60	QPSK	1	1	20.70	20.76	20.72	21.5	0.0	
Channel				648334	650000	650668	Tune-up limit MPR		
50	QPSK	1	1	20.63	20.82	20.49	21.5	0.0	
Channel				647999	650000	650000	Tune-up limit MPR		
40	QPSK	1	1	20.73	20.62	20.63	21.5	0.0	
Channel				647668	650000	654334	Tune-up limit MPR		
30	QPSK	1	1	20.69	20.75	20.73	21.5	0.0	
Channel				647500	650000	654500	Tune-up limit MPR		
25	QPSK	1	1	20.72	20.67	20.61	21.5	0.0	
Channel				647334	650000	654668	Tune-up limit MPR		
20	QPSK	1	1	20.66	20.84	20.69	21.5	0.0	
Channel				647168	650000	654834	Tune-up limit MPR		
15	QPSK	1	1	20.65	20.73	20.71	21.5	0.0	
Channel				647000	650000	655000	Tune-up limit MPR		
10	QPSK	1	1	20.72	20.67	20.62	21.5	0.0	

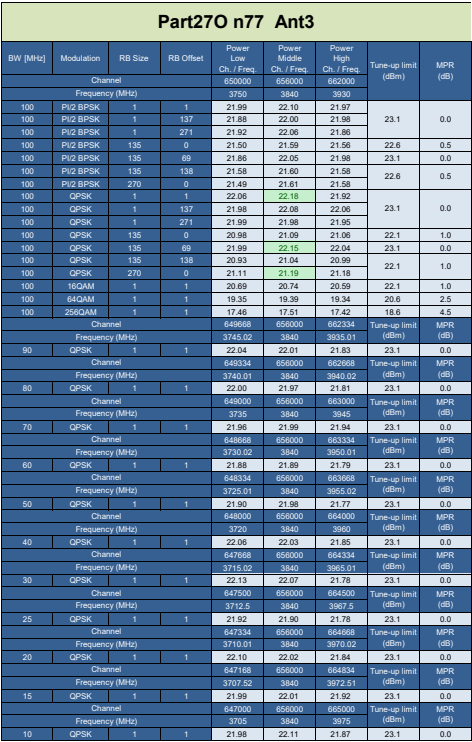
Part270 n77 PC2 DSI3 Standalone Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel <td>650000<td>650000<td>650000<td colspan="3"></td></td></td></td>				650000 <td>650000<td>650000<td colspan="3"></td></td></td>	650000 <td>650000<td colspan="3"></td></td>	650000 <td colspan="3"></td>			
Frequency (MHz) <td>3750<td>3840<td>3930<td colspan="3"></td></td></td></td>				3750 <td>3840<td>3930<td colspan="3"></td></td></td>	3840 <td>3930<td colspan="3"></td></td>	3930 <td colspan="3"></td>			
100	P12 BPSK	1	1	23.68	23.73	23.64	24.5	0.0	
100	P12 BPSK	1	137	23.63	23.70	23.59			
100	P12 BPSK	1	271	23.56	23.55	23.54			
100	P12 BPSK	135	0	23.48	23.58	23.48			
100	P12 BPSK	135	69	23.62	23.68	23.57	24.5	0.0	
100	P12 BPSK	135	138	23.52	23.54	23.51	24.5	0.0	
100	P12 BPSK	270	0	23.50	23.66	23.51			
100	QPSK	1	1	23.67	23.76	23.71	24.5	0.0	
100	QPSK	1	137	23.58	23.75	23.67			
100	QPSK	1	271	23.43	23.62	23.45			
100	QPSK	135	0	23.55	23.59	23.59	24.5	0.0	
100	QPSK	135	69	23.63	23.72	23.51	24.5	0.0	
100	QPSK	135	138	23.55	23.60	23.61	24.5	0.0	
100	QPSK	270	0	23.60	23.74	23.57			
100	16QAM	1	1	23.44	23.60	23.49	24.5	0.0	
100	64QAM	1	1	23.41	23.56	23.49	24.5	0.0	
100	256QAM	1	1	21.75	21.80	21.69	22.5	2.0	
Channel				649000	650000	650334	Tune-up limit (dBm) MPR (dB)		
90	QPSK	1	1	23.59	23.68	23.63	24.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm) MPR (dB)		
80	QPSK	1	1	23.49	23.67	23.59	24.5	0.0	
Channel				649000	650000	650000	Tune-up limit (dBm) MPR (dB)		
70	QPSK	1	1	23.53	23.66	23.49	24.5	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm) MPR (dB)		
60	QPSK	1	1	23.54	23.65	23.43	24.5	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm) MPR (dB)		
50	QPSK	1	1	23.35	23.54	23.37	24.5	0.0	
Channel				648000	650000	654000	Tune-up limit (dBm) MPR (dB)		
40	QPSK	1	1	23.47	23.51	23.51	24.5	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm) MPR (dB)		
30	QPSK	1	1	23.58	23.67	23.62	24.5	0.0	
Channel				647500	650000	654500	Tune-up limit (dBm) MPR (dB)		
25	QPSK	1	1	23.54	23.63	23.41	24.5	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm) MPR (dB)		
20	QPSK	1	1	23.51	23.64	23.49	24.5	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm) MPR (dB)		
15	QPSK	1	1	23.34	23.52	23.36	24.5	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm) MPR (dB)		
10	QPSK	1	1	23.46	23.50	23.48	24.5	0.0	

Part270 n78 DS3 Standalone Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	P12 BPSK	1	1		20.60		21.5	0.0	
100	P12 BPSK	1	137		20.76				
100	P12 BPSK	1	271		20.65				
100	P12 BPSK	135	0		20.71				
100	P12 BPSK	135	69		20.78		21.5	0.0	
100	P12 BPSK	135	138		20.67		21.5	0.0	
100	P12 BPSK	270	0		20.80				
100	QPSK	1	1		20.86		21.5	0.0	
100	QPSK	1	137		20.66				
100	QPSK	1	271		20.69				
100	QPSK	135	0		20.76				
100	QPSK	135	69		20.81		21.5	0.0	
100	QPSK	135	138		20.82		21.5	0.0	
100	QPSK	270	0		20.75				
100	16QAM	1	1		20.64		21.5	0.0	
100	64QAM	1	1		20.60		21.5	0.0	
100	256QAM	1	1		18.82		19.5	2.0	
Channel				646668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1		20.77	20.82	21.5	0.0	
Channel				646334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1		20.58	20.57	20.42	21.5	0.0
Channel				646000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		20.61	20.67	20.63	21.5	0.0
Channel				646668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3740.02	3750	3760.01	(dBm)	(dB)	
60	QPSK	1	1		20.66	20.59	20.55	21.5	0.0
Channel				646334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3735.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1		20.24	20.73	20.40	21.5	0.0
Channel				646000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1		20.65	20.53	20.54	21.5	0.0
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3765.01	(dBm)	(dB)	
30	QPSK	1	1		20.69	20.66	20.44	21.5	0.0
Channel				647500	650000	652500	Tune-up limit	MPR	
Frequency (MHz)				3712.5	3750	3787.5	(dBm)	(dB)	
25	QPSK	1	1		20.62	20.58	20.52	21.5	0.0
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.51	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1		20.57	20.74	20.80	21.5	0.0
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3795.51	(dBm)	(dB)	
15	QPSK	1	1		20.56	20.64	20.62	21.5	0.0
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		20.63	20.58	20.53	21.5	0.0

Part270 n78 PC2 DSI3 Standalone Ant9								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		23.67			
100	PI/2 BPSK	1	137		23.64		24.5	0.0
100	PI/2 BPSK	1	271		23.48			
100	PI/2 BPSK	135	0		23.52		24.5	0.0
100	PI/2 BPSK	135	69		23.62		24.5	0.0
100	PI/2 BPSK	135	138		23.48		24.5	0.0
100	PI/2 BPSK	270	0		23.59			
100	QPSK	1	1		23.70			
100	QPSK	1	137		23.69		24.5	0.0
100	QPSK	1	271		23.57			
100	QPSK	135	0		23.63		24.5	0.0
100	QPSK	135	69		23.68		24.5	0.0
100	QPSK	135	138		23.35			
100	QPSK	270	0		23.68		24.5	0.0
100	16QAM	1	1		23.54		24.5	0.0
100	64QAM	1	1		23.60		24.5	0.0
100	256QAM	1	1		21.74		22.5	2.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	23.49	23.59	23.54	24.5	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	23.40	23.59	23.49	24.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	23.44	23.67	23.40	24.5	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	23.45	23.56	23.34	24.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	23.26	23.45	23.28	24.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	23.38	23.42	23.42	24.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	23.49	23.59	23.53	24.5	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	23.45	23.55	23.31	24.5	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	23.42	23.56	23.40	24.5	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	23.25	23.43	23.27	24.5	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	23.37	23.41	23.39	24.5	0.0

n38 Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	21.1	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	20.43	20.55	20.44	21.1	0.0	
40	PI/2 BPSK	1	53	20.45	20.48	20.36			
40	PI/2 BPSK	1	104	20.30	20.39	20.38	21.1	0.0	
40	PI/2 BPSK	50	0	19.92	20.01	19.89			
40	PI/2 BPSK	50	28	20.13	20.30	20.34	21.1	0.0	
40	PI/2 BPSK	50	56	19.80	19.75	19.73			
40	PI/2 BPSK	100	0	19.65	19.81	19.86	21.1	0.0	
40	QPSK	1	1	20.55	20.56	20.42			
40	QPSK	1	53	20.35	20.41	20.37	21.1	0.0	
40	QPSK	1	104	20.32	20.43	20.22			
40	QPSK	50	0	19.23	19.41	19.26	21.1	0.0	
40	QPSK	50	28	20.46	20.55	20.37			
40	QPSK	80	56	19.36	19.30	19.27	21.1	0.0	
40	QPSK	100	0	19.46	19.48	19.34			
40	16QAM	1	1	19.49	19.60	19.42	21.1	0.0	
40	64QAM	1	1	19.33	19.39	19.33			
40	256QAM	1	1	19.45	19.41	19.46	19.5	1.6	
Channel				517002	519000	520998	21.1	MPR	
Frequency (MHz)				2595.01	2595	2604.99			
30	QPSK	1	1	20.48	20.51	20.34	21.1	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2592.52	2595	2607.48	21.1	0.0	
25	QPSK	1	1	20.43	20.43	20.48			
Channel				516000	519000	522000	21.1	MPR	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	20.53	20.54	20.34	21.1	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49	21.1	0.0	
15	QPSK	1	1	20.52	20.34	20.32			
Channel				515004	519000	522998	21.1	MPR	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	20.47	20.37	20.48	21.1	0.0	

n41 Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	520000	21.1	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	20.34	20.54	20.48	21.1	0.0	
100	PI/2 BPSK	1	137	20.42	20.41	20.44			
100	PI/2 BPSK	1	271	20.28	20.47	20.27	21.1	0.0	
100	PI/2 BPSK	135	0	19.99	20.05	19.92			
100	PI/2 BPSK	135	69	20.50	20.40	20.33	21.1	0.0	
100	PI/2 BPSK	135	138	20.00	20.01	19.98			
100	PI/2 BPSK	270	0	19.88	19.99	19.99	21.1	0.0	
100	QPSK	1	1	20.42	20.57	20.49			
100	QPSK	1	137	20.36	20.44	20.50	21.1	0.0	
100	QPSK	1	271	20.37	20.39	20.24			
100	QPSK	135	0	19.66	19.67	19.61	21.1	0.0	
100	QPSK	135	69	20.36	20.51	20.45			
100	QPSK	135	138	19.91	19.85	19.86	21.1	0.0	
100	QPSK	270	0	20.35	20.46	20.31			
100	16QAM	1	1	20.33	20.39	20.33	21.1	0.0	
100	64QAM	1	1	20.42	20.56	20.46			
100	256QAM	1	1	19.42	19.38	19.37	19.5	1.6	
Channel				506000	518998	520998	21.1	MPR	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	20.10	20.16	20.11	21.1	0.0	
Channel				507204	518998	520998			
Frequency (MHz)				2538.02	2592.99	2649.99	21.1	0.0	
80	QPSK	1	1	20.02	20.09	20.12			
Channel				506002	518998	521000	21.1	MPR	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	20.14	20.15	20.04	21.1	0.0	
Channel				505200	518998	521998			
Frequency (MHz)				2524	2592.99	2659.98	21.1	0.0	
60	QPSK	1	1	20.04	20.34	20.08			
Channel				504204	518998	522998	21.1	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	20.03	20.12	20.15	21.1	0.0	
Channel				503202	518998	523000			
Frequency (MHz)				2516.01	2592.99	2670	21.1	0.0	
40	QPSK	1	1	20.07	20.10	20.01			
Channel				502200	518998	524998	21.1	MPR	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	20.45	20.34	20.20	21.1	0.0	
Channel				501204	518998	525998			
Frequency (MHz)				2506.02	2592.99	2679.99	21.1	0.0	
20	QPSK	1	1	20.17	20.07	20.18			
Channel				500700	518998	526498	21.1	MPR	
Frequency (MHz)				2493.15	2592.99	2684.48			
15	QPSK	1	1	20.01	20.17	19.98	21.1	0.0	
Channel				500202	518998	527000			
Frequency (MHz)				2501.01	2592.99	2685	21.1	0.0	
10	QPSK	1	1	20.12	20.20	20.00			



Part270 n77 PC2 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Time-up limit (dbm)	MPR (db)	
Channel									
				68000	66600	66600			
				3750	3940	3950			
100	PV2 BPSK	1	1	25.68	25.78	25.74			
100	PV2 BPSK	1	137	25.65	25.82	25.79	26.1	0.0	
100	PV2 BPSK	1	271	25.64	25.77	25.60			
100	PV2 BPSK	135	0	25.22	25.25	25.25	25.6	0.5	
100	PV2 BPSK	135	69	25.77	25.85	25.82	25.1	0.0	
100	PV2 BPSK	135	138	25.27	25.33	25.16			
100	PV2 BPSK	270	0	25.29	25.39	25.24			
100	QPSK	1	1	25.79	25.85	25.84			
100	QPSK	1	137	25.67	25.84	25.84	26.1	0.0	
100	QPSK	1	271	25.69	25.78	25.68			
100	QPSK	135	0	24.69	24.81	24.69	26.0	0.1	
100	QPSK	135	69	25.86	25.77	25.72	26.1	0.0	
100	QPSK	135	138	24.64	24.82	24.72	26.0	0.1	
100	QPSK	270	0	24.71	24.84	24.63			
100	16QAM	1	1	24.77	24.74	24.77	26.0	0.1	
100	64QAM	1	1	23.35	23.39	23.28	24.5	1.6	
100	256QAM	1	1	20.99	21.02	20.88	22.5	3.6	
Channel									
				69600	66600	66234	Time-up limit (dbm)	MPR (db)	
				3745.02	3840	3836.01			
90	QPSK	1	1	25.62	25.82	25.69	26.1	0.0	
Channel									
				643334	666000	662698	Time-up limit (dbm)	MPR (db)	
				3740.01	3840	3840.02			
80	QPSK	1	1	25.76	25.72	25.72	26.1	0.0	
Channel									
				645000	666000	662300	Time-up limit (dbm)	MPR (db)	
				3735	3840	3945			
70	QPSK	1	1	25.72	25.78	25.70	26.1	0.0	
Channel									
				646668	666000	663334	Time-up limit (dbm)	MPR (db)	
				3740.02	3840	3905.01			
60	QPSK	1	1	25.68	25.77	25.81	26.1	0.0	
Channel									
				643334	666000	663968	Time-up limit (dbm)	MPR (db)	
				3725.01	3840	3955.02			
50	QPSK	1	1	25.68	25.74	25.75	26.1	0.0	
Channel									
				645000	666000	662500	Time-up limit (dbm)	MPR (db)	
				3720	3840	3950			
40	QPSK	1	1	25.68	25.81	25.70	26.1	0.0	
Channel									
				647668	666000	664334	Time-up limit (dbm)	MPR (db)	
				3715.02	3840	3905.01			
30	QPSK	1	1	25.68	25.71	25.75	26.1	0.0	
Channel									
				645000	666000	664500	Time-up limit (dbm)	MPR (db)	
				3712.5	3840	3967.5			
25	QPSK	1	1	25.73	25.78	25.79	26.1	0.0	
Channel									
				647334	666000	664668	Time-up limit (dbm)	MPR (db)	
				3710.01	3840	3910.02			
20	QPSK	1	1	25.76	25.79	25.81	26.1	0.0	
Channel									
				647168	666000	664834	Time-up limit (dbm)	MPR (db)	
				3707.52	3840	3972.51			
15	QPSK	1	1	25.73	25.85	25.74	26.1	0.0	
Channel									
				645000	666000	665000	Time-up limit (dbm)	MPR (db)	
				3705	3840	3975			
10	QPSK	1	1	25.66	25.88	25.80	26.1	0.0	

Part270 n78 An3									
BIW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				68000	66000	66000			
Frequency (MHz)				3760	3760	3760			
100	P2B BPSK	1	1		22.85				
100	P2B BPSK	1	137		22.92		23.1	0.0	
100	P2B BPSK	1	271		22.93				
100	P2B BPSK	135	0		22.93		22.6	0.5	
100	P2B BPSK	135	69		22.95		23.1	0.0	
100	P2B BPSK	135	138		22.98				
100	P2B BPSK	270	0		22.31		22.6	0.5	
100	QPSK	1	1		22.96				
100	QPSK	1	137		22.94		23.1	0.0	
100	QPSK	1	271		22.95				
100	QPSK	135	0		22.09		22.1	1.0	
100	QPSK	135	69		22.91		23.1	0.0	
100	QPSK	135	138		21.97				
100	QPSK	270	0		22.94		22.1	1.0	
100	16QAM	1	1		22.03		22.1	0.0	
100	64QAM	1	1		19.45		20.0	2.5	
100	256QAM	1	1		18.52		18.6	4.5	
Channel				68668	65000	66034	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3765	3765.01			
90	QPSK	1	1		22.83	22.81	22.90	23.1	0.0
Channel				686334	65000	660688	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3765	3760.02			
80	QPSK	1	1		22.93	22.81	22.92	23.1	0.0
Channel				686003	65000	661000	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3765	3765			
70	QPSK	1	1		22.95	22.94	22.86	23.1	0.0
Channel				686668	65000	661334	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3765	3765.01			
60	QPSK	1	1		22.86	22.90	22.90	23.1	0.0
Channel				686334	65000	661068	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3765	3775.02			
50	QPSK	1	1		22.82	22.97	22.84	23.1	0.0
Channel				686005	65000	660500	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3765	3760			
40	QPSK	1	1		22.85	22.85	22.88	23.1	0.0
Channel				687688	65000	662334	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3765	3765.01			
30	QPSK	1	1		22.82	22.87	22.81	23.1	0.0
Channel				687600	65000	662600	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3765	3787.5			
25	QPSK	1	1		22.86	22.95	22.81	23.1	0.0
Channel				687334	65000	662668	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.01	3765	3766.02			
20	QPSK	1	1		22.87	22.89	22.81	23.1	0.0
Channel				687668	65000	662834	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3765	3792.51			
15	QPSK	1	1		22.81	22.84	22.86	23.1	0.0
Channel				687000	65000	662765	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705 <th>3765</th> <th>3795</th> <th></th> <th></th>	3765	3795			
10	QPSK	1	1		22.82	22.83	22.82	23.1	0.0

Part270 n78 PC2 Ant3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		25.80			
100	PI/2 BPSK	1	137		25.79		26.1	0.0
100	PI/2 BPSK	1	271		25.83			
100	PI/2 BPSK	135	0		25.42		26.1	0.0
100	PI/2 BPSK	135	69		25.75		26.1	0.0
100	PI/2 BPSK	135	138		25.25		26.1	0.0
100	PI/2 BPSK	270	0		25.28			
100	QPSK	1	1		25.89			
100	QPSK	1	137		25.82		26.1	0.0
100	QPSK	1	271		25.89			
100	QPSK	135	0		24.91		26.0	0.1
100	QPSK	135	69		25.84		26.1	0.0
100	QPSK	135	138		24.71		26.0	0.1
100	QPSK	270	0		24.78			
100	16QAM	1	1		25.07		26.0	0.1
100	64QAM	1	1		23.73		24.5	1.6
100	256QAM	1	1		21.55		22.5	3.6
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	25.80	25.85	25.78	26.1	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	25.80	25.79	25.85	26.1	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	25.73	25.75	25.75	26.1	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	25.80	25.81	25.81	26.1	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	25.77	25.79	25.85	26.1	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	25.81	25.84	25.79	26.1	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	25.75	25.74	25.81	26.1	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	25.80	25.75	25.74	26.1	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	25.72	25.78	25.80	26.1	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	25.78	25.82	25.82	26.1	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	25.80	25.86	25.73	26.1	0.0

n41 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				500200	518598	539000	22.5	0.0	
Frequency (MHz)				2548.01	2592.99	2640			
100	PV2 BPSK	1	1	22.21	22.36	22.41			
100	PV2 BPSK	1	137	22.37	22.35	22.42	22.5	0.0	
100	PV2 BPSK	1	271	22.04	22.16	22.12			
100	PV2 BPSK	135	0	21.82	21.87	21.84			
100	PV2 BPSK	135	69	22.01	22.27	22.00	22.5	0.0	
100	PV2 BPSK	135	138	21.94	21.87	21.80	22.0	0.5	
100	PV2 BPSK	270	0	21.89	21.85	21.79			
100	QPSK	1	1	22.37	22.43	22.41			
100	QPSK	1	137	22.23	22.38	22.28	22.5	0.0	
100	QPSK	1	271	22.04	22.19	22.12			
100	QPSK	135	0	21.20	21.23	21.25		1.5	
100	QPSK	135	69	22.07	22.13	21.95	22.5	0.0	
100	QPSK	135	138	21.39	21.28	21.13	21.5	1.0	
100	QPSK	270	0	21.29	21.45	21.40			
100	16QAM	1	1	21.45	21.48	21.48	21.5	1.0	
100	64QAM	1	1	19.85	19.86	19.81	20.0	2.5	
100	256QAM	1	1	17.89	17.91	17.93	18.0	4.5	
Channel				500200	518598	529998	Tune-up limit		
Frequency (MHz)				2541	2592.99	2644.98	(dBm)		
90	QPSK	1	1	20.88	20.99	20.97	22.5	0.0	
Channel				507204	518598	529998	Tune-up limit		
Frequency (MHz)				2536.02	2592.99	2643.99	(dBm)		
80	QPSK	1	1	20.87	21.02	20.98	22.5	0.0	
Channel				506202	518598	531000	Tune-up limit		
Frequency (MHz)				2531.01	2592.99	2655	(dBm)		
70	QPSK	1	1	20.89	21.07	20.89	22.5	0.0	
Channel				505200	518598	531998	Tune-up limit		
Frequency (MHz)				2526	2592.99	2659.98	(dBm)		
60	QPSK	1	1	20.99	21.03	21.03	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit		
Frequency (MHz)				2521.02	2592.99	2664.98	(dBm)		
50	QPSK	1	1	20.88	21.09	21.00	22.5	0.0	
Channel				503202	518598	534000	Tune-up limit		
Frequency (MHz)				2516.01	2592.99	2670	(dBm)		
40	QPSK	1	1	20.91	20.96	21.02	22.5	0.0	
Channel				502200	518598	534998	Tune-up limit		
Frequency (MHz)				2511	2592.99	2674.98	(dBm)		
30	QPSK	1	1	20.92	20.95	21.02	22.5	0.0	
Channel				501204	518598	535998	Tune-up limit		
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)		
20	QPSK	1	1	20.98	20.99	20.98	22.5	0.0	
Channel				500700	518598	536498	Tune-up limit		
Frequency (MHz)				2501.5	2592.99	2682.48	(dBm)		
15	QPSK	1	1	21.00	21.09	21.03	22.5	0.0	
Channel				500202	518598	537000	Tune-up limit		
Frequency (MHz)				2501.01	2592.99	2685	(dBm)		
10	QPSK	1	1	21.00	21.00	20.96	22.5	0.0	

Part270 n77 Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000	24.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	23.55	23.61	23.05	24.0	0.0
100	PI/2 BPSK	1	137	23.44	23.56	23.03		
100	PI/2 BPSK	1	271	23.22	23.41	23.05		
100	PI/2 BPSK	135	0	23.42	23.35	23.11		
100	PI/2 BPSK	135	69	23.38	23.55	23.01	24.0	0.0
100	PI/2 BPSK	135	138	23.26	23.35	22.91	23.5	0.5
100	PI/2 BPSK	270	0	23.49	23.43	22.98	24.0	0.0
100	QPSK	1	1	23.54	23.65	23.08		
100	QPSK	1	137	23.49	23.53	23.10		
100	QPSK	1	271	23.35	23.43	23.03		
100	QPSK	135	0	22.66	22.65	22.95	23.0	1.0
100	QPSK	135	69	23.51	23.58	23.01	24.0	0.0
100	QPSK	135	138	22.44	22.36	22.29	23.0	1.0
100	QPSK	270	0	22.43	22.45	22.38	23.0	1.0
100	16QAM	1	1	22.54	22.59	22.68		
100	64QAM	1	1	21.45	21.34	20.98		
100	256QAM	1	1	19.01	19.03	19.05		
Channel				64968	65000	65234	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.47	22.59	22.01	24.0	0.0
Channel				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3740	3940.02		
80	QPSK	1	1	22.50	22.60	22.03	24.0	0.0
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.47	22.51	22.06	24.0	0.0
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	22.38	22.54	22.01	24.0	0.0
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.44	22.57	22.05	24.0	0.0
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.47	22.63	22.05	24.0	0.0
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3955.01		
30	QPSK	1	1	22.51	22.53	22.01	24.0	0.0
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	22.49	22.60	22.05	24.0	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.50	22.55	22.05	24.0	0.0
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	22.47	22.58	22.04	24.0	0.0
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.38	22.64	22.03	24.0	0.0

Part270 n78 Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000	24.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		23.56		24.0	0.0
100	PI/2 BPSK	1	137		23.51			
100	PI/2 BPSK	1	271		23.36			
100	PI/2 BPSK	135	0		23.30			
100	PI/2 BPSK	135	69		23.50		24.0	0.0
100	PI/2 BPSK	135	138		23.30		23.5	0.5
100	PI/2 BPSK	270	0		23.38		24.0	0.0
100	QPSK	1	1		23.40			
100	QPSK	1	137		23.48			
100	QPSK	1	271		23.38			
100	QPSK	135	0		22.60		23.0	1.0
100	QPSK	135	69		23.53		23.4	0.0
100	QPSK	135	138		22.38		23.0	1.0
100	QPSK	270	0		22.39		23.0	1.0
100	16QAM	1	1		22.54			
100	64QAM	1	1		21.29			
100	256QAM	1	1		18.98			
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.66	22.67	22.82	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.63	22.63	22.72	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.68	22.61	22.74	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.64	22.68	22.68	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.74	22.68	22.73	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.68	22.74	22.81	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.72	22.72	22.82	24.0	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	22.74	22.62	22.61	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.74	22.60	22.59	24.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	22.71	22.71	22.65	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.67	22.73	22.68	24.0	0.0

Reduced Power Mode for DSI3 Simultaneous&DSI7

n5 Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.04	23.13	22.99	24.0	0.0
20	PI2 BPSK	1	53	22.90	23.03	22.93		
20	PI2 BPSK	1	104	23.00	23.10	22.97	23.5	0.5
20	PI2 BPSK	50	0	22.58	22.84	22.55		
20	PI2 BPSK	50	28	22.82	22.98	22.85	24.0	0.0
20	PI2 BPSK	50	56	22.57	22.70	22.53	23.5	0.5
20	PI2 BPSK	100	0	22.61	22.73	22.58		
20	QPSK	1	1	23.16	23.19	23.02	24.0	0.0
20	QPSK	1	53	22.88	23.06	22.91		
20	QPSK	1	104	23.09	23.12	23.04	23.0	1.0
20	QPSK	50	0	22.15	22.17	22.13		
20	QPSK	50	28	23.11	23.14	23.08	24.0	0.0
20	QPSK	50	56	22.12	22.22	22.06	23.0	1.0
20	QPSK	100	0	22.28	22.31	22.24		
20	16QAM	1	1	22.02	22.05	21.96	23.0	1.0
20	64QAM	1	1	20.87	21.02	20.95	21.5	2.5
20	256QAM	1	1	18.39	18.49	18.37	19.5	4.5
Channel				165300	167300	169300	24.0	0.0
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.03	23.10	22.97	24.0	0.0
Channel				166800	167300	168800	24.0	0.0
Frequency (MHz)				830	836.5	844		
10	QPSK	1	1	23.05	23.02	22.95	24.0	0.0
Channel				165300	167300	169300	24.0	0.0
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.09	23.04	22.85	24.0	0.0

n41 DSI3 Simultaneous Ant0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				500202	518598	530000		
Frequency (MHz)				2548.01	2592.99	2640		
100	PV2 BPSK	1	1	19.35	19.43	19.29	20.2	0.0
100	PV2 BPSK	1	137	19.42	19.50	19.40		
100	PV2 BPSK	1	271	19.41	19.53	19.47	20.2	0.0
100	PV2 BPSK	135	0	19.43	19.47	19.42		
100	PV2 BPSK	135	69	19.33	19.44	19.29	20.2	0.0
100	PV2 BPSK	135	138	19.33	19.39	19.22	20.2	0.0
100	PV2 BPSK	270	0	19.40	19.49	19.46	20.2	0.0
100	QPSK	1	1	19.54	19.60	19.46		
100	QPSK	1	137	19.45	19.54	19.36	20.2	0.0
100	QPSK	1	271	19.41	19.57	19.48		
100	QPSK	135	0	19.41	19.44	19.37	20.2	0.0
100	QPSK	135	69	19.33	19.51	19.39	20.2	0.0
100	QPSK	135	138	19.20	19.37	19.33	20.2	0.0
100	QPSK	270	0	19.40	19.46	19.29		
100	16QAM	1	1	19.49	19.52	19.48	20.2	0.0
100	64QAM	1	1	19.41	19.53	19.36	20.2	0.0
100	256QAM	1	1	18.71	18.89	18.72	19.5	0.7
Channel				500202	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.16	19.22	18.99	20.2	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2643.99		
80	QPSK	1	1	19.08	19.13	18.97	20.2	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.02	19.15	18.97	20.2	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.18	19.18	18.96	20.2	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	19.15	19.21	18.94	20.2	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.03	19.11	19.07	20.2	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.08	19.19	19.02	20.2	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.11	19.08	19.08	20.2	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.5	2592.99	2682.48		
15	QPSK	1	1	19.08	19.12	19.05	20.2	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.15	19.10	18.98	20.2	0.0



n2 DSI3 Simultaneous Ant1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)			
Channel				372000	376000	380000					
Frequency (MHz)				1860	1880	1900					
20	P12 BPSK	1	1	16.04	16.64	16.60	17.5	0.0			
20	P12 BPSK	1	53	16.53	16.51	16.37					
20	P12 BPSK	1	104	16.44	16.57	16.37					
20	P12 BPSK	50	0	16.49	16.53	16.45	17.5	0.0			
20	P12 BPSK	50	28	16.44	16.54	16.47	17.5	0.0			
20	P12 BPSK	50	56	16.29	16.50	16.41	17.5	0.0			
20	P12 BPSK	100	0	16.51	16.59	16.47	17.5	0.0			
20	QPSK	1	1	16.56	16.66	16.60	17.5	0.0			
20	QPSK	1	53	16.42	16.58	16.44					
20	QPSK	1	104	16.46	16.64	16.41	17.5				
20	QPSK	50	0	16.40	16.56	16.30	17.5				
20	QPSK	50	28	16.41	16.58	16.32	17.5				
20	QPSK	50	56	16.35	16.30	16.34	17.5				
20	QPSK	100	0	16.36	16.45	16.41	17.5				
20	16QAM	1	1	16.33	16.49	16.29	17.5				
20	64QAM	1	1	16.45	16.43	16.42	17.5				
20	256QAM	1	1	16.34	16.49	16.29	17.5				
Channel				371500	376000	380500	Tune-up limit (dbm)	MPR (db)			
Frequency (MHz)				1857.5	1880	1902.5					
15	QPSK	1	1	16.46	16.52	16.63	17.5	0.0			
Channel				371000	376000	381000	Tune-up limit (dbm)	MPR (db)			
Frequency (MHz)				1855	1880	1905					
10	QPSK	1	1	16.51	16.56	16.44	17.5	0.0			
Channel				375500	376000	381500	Tune-up limit (dbm)	MPR (db)			
Frequency (MHz)				1862.5	1880	1907.5					
5	QPSK	1	1	16.52	16.63	16.61	17.5	0.0			

n7 DSI3 Simultaneous Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	P12 BPSK	1	1	14.36	14.46	14.43	15.5	0.0	
40	P12 BPSK	1	108	14.27	14.40	14.27			
40	P12 BPSK	1	214	14.20	14.28	14.29			
40	P12 BPSK	108	0	14.23	14.24	14.15			
40	P12 BPSK	108	54	14.03	14.18	13.96			
40	P12 BPSK	108	108	14.14	14.37	14.22			
40	P12 BPSK	216	0	14.18	14.32	14.32			
40	QPSK	1	1	14.45	14.48	14.42	15.5	0.0	
40	QPSK	1	108	14.24	14.34	14.15			
40	QPSK	1	214	14.20	14.45	14.26			
40	QPSK	108	0	14.16	14.26	14.20			
40	QPSK	108	54	14.34	14.41	14.33			
40	QPSK	108	108	14.10	14.30	14.18			
40	QPSK	216	0	14.16	14.34	14.24			
40	16QAM	1	1	14.07	14.16	14.05			
40	64QAM	1	1	14.28	14.19	14.14			
40	256QAM	1	1	14.16	14.22	14.13			
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	14.36	14.38	14.30	15.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	14.28	14.38	14.43	15.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	P12 BPSK	1	1	14.33	14.35	14.39	15.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	14.30	14.33	14.42	15.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	14.36	14.46	14.43	15.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	14.20	14.28	14.29	15.5	0.0	

n66 DS13 Simultaneous Ant1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				346000	349000	350000	17.2	0.0			
Frequency (MHz)				1720	1745	1760					
40	P12 BPSK	1	1	15.83	15.87	15.82	17.2	0.0			
40	P12 BPSK	1	108	15.75	15.80	15.73					
40	P12 BPSK	1	214	15.83	15.75	15.57	17.2				
40	P12 BPSK	108	0	15.68	15.80	15.57	17.2				
40	P12 BPSK	108	54	15.84	15.76	15.76	17.2				
40	P12 BPSK	108	108	15.79	15.80	15.79	17.2				
40	P12 BPSK	216	0	15.74	15.92	15.67	17.2				
40	QPSK	1	1	15.84	15.94	15.82	17.2	0.0			
40	QPSK	1	108	15.85	15.92	15.73					
40	QPSK	1	214	15.73	15.85	15.56	17.2				
40	QPSK	108	0	15.86	15.73	15.76	17.2				
40	QPSK	108	54	15.72	15.89	15.73	17.2				
40	QPSK	108	108	15.74	15.79	15.70	17.2				
40	QPSK	216	0	15.74	15.80	15.69	17.2				
40	16QAM	1	1	15.78	15.78	15.64	17.2				
40	64QAM	1	1	15.80	15.74	15.67	17.2				
40	256QAM	1	1	15.83	15.82	15.69	17.2				
Channel				345000	349000	350000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1725	1745	1765					
30	QPSK	1	1	15.86	15.81	15.77	17.2	0.0			
Channel				344500	349000	350500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1722.5	1745	1767.5					
25	QPSK	1	1	15.82	15.83	15.68	17.2	0.0			
Channel				344000	349000	350000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1720	1745	1770					
20	QPSK	1	1	15.64	15.91	15.76	17.2	0.0			
Channel				343500	349000	350500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1717.5	1745	1772.5					
15	QPSK	1	1	15.80	15.85	15.73	17.2	0.0			
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1715	1745	1775					
10	QPSK	1	1	15.85	15.78	15.73	17.2	0.0			
Channel				342500	349000	350500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1712.5	1745	1777.5					
5	QPSK	1	1	15.72	15.83	15.71	17.2	0.0			

n38 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				519004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	15.71	15.77	15.68	16.3	0.0	
40	PI/2 BPSK	1	53	15.55	15.69	15.66			
40	PI/2 BPSK	1	104	15.60	15.66	15.59			
40	PI/2 BPSK	50	0	15.06	15.17	15.12	15.8	0.5	
40	PI/2 BPSK	50	28	15.65	15.72	15.66	16.3	0.0	
40	PI/2 BPSK	50	56	15.00	15.09	14.93	15.8	0.5	
40	PI/2 BPSK	100	0	14.94	15.12	15.04	16.3	0.0	
40	QPSK	1	1	15.79	15.63	15.74			
40	QPSK	1	53	15.70	15.73	15.63			
40	QPSK	1	104	15.64	15.71	15.61	15.3	1.0	
40	QPSK	50	0	14.53	14.63	14.45			
40	QPSK	50	28	15.73	15.77	15.65			
40	QPSK	50	56	14.40	14.55	14.36	15.3	1.0	
40	QPSK	100	0	14.58	14.65	14.56			
40	16QAM	1	1	14.81	14.68	14.53	15.3	1.0	
40	64QAM	1	1	13.32	13.48	13.35	13.8	2.5	
40	256QAM	1	1	11.12	11.25	11.19	11.6	4.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2593.01	2595	2604.99			
30	QPSK	1	1	15.72	15.67	15.62	16.3	0.0	
Channel				516504 <th>519000</th> <th>521496</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52 <th>2595</th> <th>2607.48</th> <th colspan="3"></th>	2595	2607.48			
25	QPSK	1	1	15.72	15.71	15.64	16.3	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	15.72	15.65	15.71	16.3	0.0	
Channel				515502 <th>519000</th> <th>522498</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51 <th>2595</th> <th>2612.49</th> <th colspan="3"></th>	2595	2612.49			
15	QPSK	1	1	15.70	15.77	15.70	16.3	0.0	
Channel				515004 <th>519000</th> <th>522996</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02 <th>2595</th> <th>2614.98</th> <th colspan="3"></th>	2595	2614.98			
10	QPSK	1	1	15.75	15.71	15.61	16.3	0.0	

n41 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	520000			
Frequency (MHz)				2546.01	2552.99	2540			
100	PI2 BPSK	1	1	14.79	14.87	14.83	16.3	0.0	
100	PI2 BPSK	1	137	14.76	14.86	14.72			
100	PI2 BPSK	1	271	14.68	14.84	14.70			
100	PI2 BPSK	135	0	14.39	14.42	14.32	16.3	0.0	
100	PI2 BPSK	135	69	14.78	14.83	14.68	16.3	0.0	
100	PI2 BPSK	135	138	14.32	14.35	14.31	16.3	0.0	
100	PI2 BPSK	270	0	14.81	14.71	14.87	16.3	0.0	
100	QPSK	1	1	14.88	14.96	14.81			
100	QPSK	1	137	14.82	14.93	14.83			
100	QPSK	1	271	14.81	14.82	14.86	16.3	0.0	
100	QPSK	135	0	14.44	14.45	14.41			
100	QPSK	135	69	14.81	14.84	14.82			
100	QPSK	135	138	14.39	14.39	14.38	16.3	0.0	
100	QPSK	270	0	14.72	14.76	14.68	16.3	0.0	
100	16QAM	1	1	14.32	14.45	14.42			
100	64QAM	1	1	14.46	14.45	14.44	16.3	0.0	
100	256QAM	1	1	14.41	14.34	14.42	16.3	0.0	
Channel				509200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2552.99	2544.98			
90	QPSK	1	1	14.36	14.46	14.43	16.3	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2552.99	2549.98			
80	QPSK	1	1	14.78	14.89	14.73	16.3	0.0	
Channel				506202	518598	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2552.99	2655			
70	QPSK	1	1	14.84	14.94	14.82	16.3	0.0	
Channel				505200	518598	521998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2529	2552.99	2659.98			
60	QPSK	1	1	14.38	14.53	14.43	16.3	0.0	
Channel				504204	518598	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2552.99	2654.98			
50	QPSK	1	1	14.65	14.87	14.81	16.3	0.0	
Channel				503202	518598	524000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2552.99	2670			
40	QPSK	1	1	14.90	14.89	14.94	16.3	0.0	
Channel				502200	518598	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2552.99	2674.98			
30	QPSK	1	1	14.84	14.94	14.82	16.3	0.0	
Channel				501204	518598	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2552.99	2679.98			
20	QPSK	1	1	14.86	14.75	14.88	16.3	0.0	
Channel				500700	518598	526498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.5	2552.99	2682.48			
15	QPSK	1	1	14.77	14.89	14.74	16.3	0.0	
Channel				500202	518598	527000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2552.99	2685			
10	QPSK	1	1	14.32	14.47	14.39	16.3	0.0	

n7 DSI3 Simultaneous Ant2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	20.31	20.32	20.26	21.5	0.0
40	PI2 BPSK	1	108	20.29	20.22	20.20		
40	PI2 BPSK	1	214	20.22	20.26	20.29	21.5	0.0
40	PI2 BPSK	108	0	20.23	20.19	20.22		
40	PI2 BPSK	108	54	20.33	20.25	20.23	21.5	0.0
40	PI2 BPSK	108	108	20.23	20.32	20.31	21.5	0.0
40	PI2 BPSK	216	0	20.27	20.22	20.33	21.5	0.0
40	QPSK	1	1	20.40	20.48	20.36		
40	QPSK	1	108	20.23	20.42	20.18	21.5	0.0
40	QPSK	1	214	20.25	20.22	20.27		
40	QPSK	108	0	20.20	20.27	20.28	21.5	0.0
40	QPSK	108	54	20.23	20.32	20.29	21.5	0.0
40	QPSK	108	108	20.26	20.27	20.23	21.5	0.0
40	QPSK	216	0	20.25	20.32	20.20		
40	16QAM	1	1	20.19	20.29	20.22	21.5	0.0
40	64QAM	1	1	20.14	20.23	20.14	21.5	0.0
40	256QAM	1	1	18.80	18.81	18.67	19.4	2.1
Channel				505000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	20.32	20.24	20.14	21.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	20.16	20.18	20.20	21.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	20.25	20.29	20.16	21.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	20.16	20.21	20.17	21.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	20.16	20.17	20.14	21.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	20.22	20.25	20.15	21.5	0.0

n38 Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	21.1	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	20.29	20.36	20.20			
40	PI/2 BPSK	1	53	20.22	20.29	20.18	21.1	0.0	
40	PI/2 BPSK	1	104	20.16	20.20	20.15			
40	PI/2 BPSK	50	0	19.84	19.78	19.68			
40	PI/2 BPSK	50	28	19.99	20.19	20.10	21.1	0.0	
40	PI/2 BPSK	50	56	20.36	20.36	20.36			
40	PI/2 BPSK	100	0	19.95	19.99	19.89			
40	QPSK	1	1	20.37	20.36	20.22	21.1	0.0	
40	QPSK	1	53	20.13	20.30	20.14			
40	QPSK	1	104	20.16	20.19	20.08			
40	QPSK	50	0	19.74	19.76	19.65	21.1	0.0	
40	QPSK	50	28	20.26	20.30	20.18			
40	QPSK	80	56	19.82	19.97	19.74			
40	QPSK	100	0	19.93	20.00	19.96	21.1	0.0	
40	16QAM	1	1	20.03	20.22	20.07			
40	64QAM	1	1	19.96	20.03	20.00		21.1	
40	256QAM	1	1	20.08	20.20	20.03	20.5		0.6
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99	21.1	0.0	
30	QPSK	1	1	20.28	20.33	20.15			
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2582.52	2595	2607.48	21.1	0.0	
25	QPSK	1	1	20.27	20.30	20.04			
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610	21.1	0.0	
20	QPSK	1	1	20.29	20.28	20.13			
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49	21.1	0.0	
15	QPSK	1	1	20.30	20.22	20.17			
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98	21.1	0.0	
10	QPSK	1	1	20.20	20.18	20.24			

n41 Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502002	518998	520000	21.1	0.0	
Frequency (MHz)				2546.01	2552.99	2640			
100	PI/2 BPSK	1	1	20.35	20.46	20.43			
100	PI/2 BPSK	1	137	20.39	20.48	20.40	21.1	0.0	
100	PI/2 BPSK	1	271	20.28	20.41	20.26			
100	PI/2 BPSK	135	0	19.97	20.02	19.93			
100	PI/2 BPSK	135	69	20.43	20.47	20.38	21.1	0.0	
100	PI/2 BPSK	135	138	19.86	19.97	19.97			
100	PI/2 BPSK	270	0	19.84	20.02	19.88			
100	QPSK	1	1	20.49	20.58	20.46	21.1	0.0	
100	QPSK	1	137	20.39	20.49	20.47			
100	QPSK	1	271	20.31	20.46	20.33			
100	QPSK	135	0	19.61	19.61	19.61	21.1	0.0	
100	QPSK	135	69	20.40	20.51	20.43			
100	QPSK	135	138	19.95	20.00	19.93			
100	QPSK	270	0	20.00	20.04	19.94	21.1	0.0	
100	16QAM	1	1	19.92	20.06	19.95			
100	64QAM	1	1	19.99	20.00	19.94		21.1	
100	256QAM	1	1	19.93	20.09	19.99	20.5		0.6
Channel				502000	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2552.99	2644.98	21.1	0.0	
90	QPSK	1	1	19.91	19.99	19.89			
Channel				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2530.02	2552.99	2649.99	21.1	0.0	
80	QPSK	1	1	19.88	19.90	19.96			
Channel				506202	518998	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2552.99	2655	21.1	0.0	
70	QPSK	1	1	19.92	19.90	19.92			
Channel				505200	518998	521998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2552.99	2659.98	21.1	0.0	
60	QPSK	1	1	19.88	20.02	19.80			
Channel				504204	518998	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2552.99	2664.99	21.1	0.0	
50	QPSK	1	1	19.92	19.93	19.84			
Channel				503202	518998	523000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2552.99	2670	21.1	0.0	
40	QPSK	1	1	19.89	19.93	19.84			
Channel				502200	518998	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2552.99	2674.99	21.1	0.0	
30	QPSK	1	1	19.88	20.01	19.89			
Channel				501204	518998	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2552.99	2679.99	21.1	0.0	
20	QPSK	1	1	19.94	19.99	19.90			
Channel				500700	518998	526498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2493.15	2552.99	2684.48	21.1	0.0	
15	QPSK	1	1	19.81	19.86	19.89			
Channel				500202	518998	527000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2552.99	2685	21.1	0.0	
10	QPSK	1	1	19.88	19.91	19.78			



Part270 n77 DS13 Simultaneous Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	20.81	20.86	20.78	21.8	0.0	
100	P12 BPSK	1	137	20.79	20.84	20.74			
100	P12 BPSK	1	271	20.56	20.69	20.57			
100	P12 BPSK	135	0	20.79	20.83	20.80			
100	P12 BPSK	135	69	20.60	20.70	20.61	21.8	0.0	
100	P12 BPSK	135	138	20.63	20.78	20.76	21.8	0.0	
100	P12 BPSK	270	0	20.73	20.78	20.72	21.8	0.0	
100	QPSK	1	1	20.83	20.89	20.78			
100	QPSK	1	137	20.69	20.87	20.73			
100	QPSK	1	271	20.66	20.76	20.64			
100	QPSK	135	0	20.71	20.79	20.69	21.8	0.0	
100	QPSK	135	69	20.80	20.86	20.67	21.8	0.0	
100	QPSK	135	138	20.57	20.74	20.66	21.8	0.0	
100	QPSK	270	0	20.77	20.85	20.73	21.8	0.0	
100	16QAM	1	1	20.67	20.71	20.59			
100	64QAM	1	1	20.61	20.76	20.71			
100	256QAM	1	1	19.74	19.78	19.69	21.0	0.8	
Channel				3745.02	3840	3935.01	Tune-up limit MPR (dB)		
90	QPSK	1	1	20.17	20.26	20.14	21.8	0.0	
Channel				649334	650000	662668	Tune-up limit MPR (dB)		
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.09	20.19	20.01	21.8	0.0	
Channel				649000	650000	663000	Tune-up limit MPR (dB)		
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.20	20.22	20.02	21.8	0.0	
Channel				648668	650000	663334	Tune-up limit MPR (dB)		
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.07	20.19	20.08	21.8	0.0	
Channel				648334	650000	663668	Tune-up limit MPR (dB)		
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.07	20.22	20.10	21.8	0.0	
Channel				647999	650000	664000	Tune-up limit MPR (dB)		
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.06	20.27	20.15	21.8	0.0	
Channel				647668	650000	664334	Tune-up limit MPR (dB)		
Frequency (MHz)				3715.02	3840	3935.01			
30	QPSK	1	1	20.08	20.12	20.13	21.8	0.0	
Channel				647500	650000	664500	Tune-up limit MPR (dB)		
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	20.09	20.14	20.16	21.8	0.0	
Channel				647334	650000	664668	Tune-up limit MPR (dB)		
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.13	20.16	20.07	21.8	0.0	
Channel				647168	650000	664834	Tune-up limit MPR (dB)		
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.10	20.12	20.02	21.8	0.0	
Channel				647000	650000	665000	Tune-up limit MPR (dB)		
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.09	20.20	20.09	21.8	0.0	

Part270 n77 PC2 DS13 Simultaneous Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	23.36	23.39	23.28	24.8	0.0	
100	P12 BPSK	1	137	23.35	23.38	23.32			
100	P12 BPSK	1	271	22.99	23.12	23.09			
100	P12 BPSK	135	0	23.29	23.36	23.28			
100	P12 BPSK	135	69	23.00	23.15	23.12	24.8	0.0	
100	P12 BPSK	135	138	23.26	23.32	23.21	24.8	0.0	
100	P12 BPSK	270	0	23.12	23.20	23.04	24.8	0.0	
100	QPSK	1	1	23.34	23.72	23.38			
100	QPSK	1	137	23.25	23.35	23.22			
100	QPSK	1	271	23.21	23.31	23.26			
100	QPSK	135	0	23.24	23.33	23.21	24.8	0.0	
100	QPSK	135	69	23.36	23.62	23.24	24.8	0.0	
100	QPSK	135	138	23.14	23.28	23.11	24.8	0.0	
100	QPSK	270	0	23.24	23.60	23.16	24.8	0.0	
100	16QAM	1	1	23.19	23.26	23.20			
100	64QAM	1	1	23.35	23.39	23.28			
100	256QAM	1	1	22.01	22.02	22.01	23.3	1.5	
Channel				650000	650000	662334	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3745.02	3840	3936.01			
90	QPSK	1	1	23.30	23.38	23.23	24.8	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.27	23.25	23.31	24.8	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.27	23.33	23.35	24.8	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.31	23.38	23.20	24.8	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.29	23.32	23.26	24.8	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.32	23.24	23.31	24.8	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3715.02	3740	3935.01			
30	QPSK	1	1	23.29	23.29	23.27	24.8	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	23.23	23.27	23.25	24.8	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.21	23.32	23.29	24.8	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	23.22	23.26	23.22	24.8	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.24	23.30	23.32	24.8	0.0	

Part270 n78 DS13 Simultaneous Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	P12 BPSK	1	1			20.39	21.8	0.0	
100	P12 BPSK	1	137			20.33			
100	P12 BPSK	1	271			20.25			
100	P12 BPSK	135	0			21.8			
100	P12 BPSK	135	69			20.31	21.8	0.0	
100	P12 BPSK	135	138			20.32	21.8	0.0	
100	P12 BPSK	270	0			20.27	21.8	0.0	
100	QPSK	1	1			20.43			
100	QPSK	1	137			20.40			
100	QPSK	1	137			20.40	21.8	0.0	
100	QPSK	1	271			20.29	21.8	0.0	
100	QPSK	135	0			20.29			
100	QPSK	135	69			20.39			
100	QPSK	135	138			20.32	21.8	0.0	
100	QPSK	270	0			20.35	21.8	0.0	
100	16QAM	1	1			20.29	21.8	0.0	
100	64QAM	1	1			20.29			
100	256QAM	1	1			19.52			
Channel				646668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		20.37	20.38	20.26	21.8	0.0
Channel				646334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		20.33	20.40	20.35	21.8	0.0
Channel				645000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		20.33	20.27	20.32	21.8	0.0
Channel				646668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3750	3760.01			
60	QPSK	1	1		20.36	20.25	20.29	21.8	0.0
Channel				646334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735.01	3750	3775.02			
50	QPSK	1	1		20.25	20.34	20.29	21.8	0.0
Channel				646000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		20.33	20.38	20.32	21.8	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3741.02	3750	3765.01			
30	QPSK	1	1		20.29	20.32	20.31	21.8	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1		20.27	20.29	20.28	21.8	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.51	3750	3790.02			
20	QPSK	1	1		20.37	20.41	20.32	21.8	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		20.40	20.37	20.30	21.8	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		20.38	20.28	20.26	21.8	0.0

Part270 n78 PC2 DSI3 Simultaneous Ant3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		23.15			
100	PI/2 BPSK	1	137		23.08		24.8	0.0
100	PI/2 BPSK	1	271		22.92			
100	PI/2 BPSK	135	0		23.04		24.8	0.0
100	PI/2 BPSK	135	69		23.04		24.8	0.0
100	PI/2 BPSK	135	138		22.99		24.8	0.0
100	PI/2 BPSK	270	0		22.93			
100	QPSK	1	1		23.21			
100	QPSK	1	137		23.10		24.8	0.0
100	QPSK	1	271		22.97			
100	QPSK	135	0		23.06		24.8	0.0
100	QPSK	135	69		23.18		24.8	0.0
100	QPSK	135	138		23.03			
100	QPSK	270	0		23.08		24.8	0.0
100	16QAM	1	1		22.91		24.8	0.0
100	64QAM	1	1		22.87		24.8	0.0
100	256QAM	1	1		21.55		23.3	1.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	23.17	23.11	23.18	24.8	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	23.11	23.08	23.07	24.8	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	23.08	23.05	23.03	24.8	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	23.10	23.18	23.06	24.8	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	23.19	23.08	23.04	24.8	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	23.18	23.04	23.17	24.8	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	23.16	23.09	23.14	24.8	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	23.10	23.13	23.16	24.8	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	23.14	23.17	23.08	24.8	0.0
Channel				647188	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	23.12	23.07	23.12	24.8	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	23.04	23.19	23.05	24.8	0.0

Part270 n77 DSI3 Simultaneous Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 650000	Power Middle Ch / Freq. 650000	Power High Ch / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	23.03	23.09	22.53			
100	PI2 BPSK	1	137	22.52	23.04	22.52	23.5	0.0	
100	PI2 BPSK	1	271	22.70	22.90	22.52			
100	PI2 BPSK	135	0	22.52	22.88	22.62	23.5	0.0	
100	PI2 BPSK	135	69	22.86	23.05	22.52	23.5	0.0	
100	PI2 BPSK	135	138	22.78	22.85	22.40	23.5	0.0	
100	PI2 BPSK	270	0	22.51	22.91	22.46			
100	QPSK	1	1	23.06	23.15	22.61			
100	QPSK	1	137	23.01	23.02	22.61	23.5	0.0	
100	QPSK	1	271	22.83	22.92	22.56			
100	QPSK	135	0	22.15	22.18	22.45	23.0	0.5	
100	QPSK	135	69	22.98	23.08	22.51	23.5	0.0	
100	QPSK	135	138	22.08	22.30	22.33	23.0	0.5	
100	QPSK	270	0	21.94	22.39	22.36			
100	16QAM	1	1	22.06	22.07	22.17	23.0	0.5	
100	64QAM	1	1	20.96	20.83	20.51	21.5	2.0	
100	256QAM	1	1	18.49	18.52	18.57	19.5	4.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.99	22.09	21.51	23.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.01	22.12	21.51	23.5	0.0	
Channel				649000	650000	650300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.99	22.01	21.56	23.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.86	22.05	21.51	23.5	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.61	22.08	21.57	23.5	0.0	
Channel				648000	650000	650300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.99	22.11	21.56	23.5	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3963.01			
30	QPSK	1	1	21.59	22.04	21.53	23.5	0.0	
Channel				647300	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	21.96	22.07	21.55	23.5	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.00	22.06	21.58	23.5	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	21.94	22.10	21.53	23.5	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.88	22.16	21.52	23.5	0.0	

Part270 n78 DSI3 Simultaneous Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 650000	Power Middle Ch / Freq. 650000	Power High Ch / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		22.24				
100	PI2 BPSK	1	137		22.19		23.5	0.0	
100	PI2 BPSK	1	271		22.02				
100	PI2 BPSK	135	0		21.90		23.5	0.0	
100	PI2 BPSK	135	69		22.20		23.5	0.0	
100	PI2 BPSK	135	138		21.51		23.5	0.0	
100	PI2 BPSK	270	0		21.87				
100	QPSK	1	1		22.38				
100	QPSK	1	137		22.05		23.5	0.0	
100	QPSK	1	271		21.95				
100	QPSK	135	0		21.82		23.0	0.5	
100	QPSK	135	69		22.23		23.5	0.0	
100	QPSK	135	138		21.48		23.0	0.5	
100	QPSK	270	0		22.00				
100	16QAM	1	1		21.89		23.0	0.5	
100	64QAM	1	1		20.66		21.5	2.0	
100	256QAM	1	1		18.64		19.5	4.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.10	22.08	22.07	23.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.12	22.09	22.07	23.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.21	22.22	22.20	23.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	22.12	22.11	22.08	23.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.21	22.23	22.25	23.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.10	22.08	22.11	23.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	22.20	22.19	22.22	23.5	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	22.04	22.02	21.99	23.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	22.16	22.18	22.16	23.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	22.26	22.26	22.28	23.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.08	22.08	22.11	23.5	0.0	



Part270 n77 DS13 Simultaneous Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	14.36	13.49	14.39	15.2	0.0	
100	P12 BPSK	1	137	13.47	13.30	13.28			
100	P12 BPSK	1	271	14.23	14.36	14.18			
100	P12 BPSK	135	0	13.86	13.89	13.87	15.2	0.0	
100	P12 BPSK	135	69	14.48	14.34	14.23	15.2	0.0	
100	P12 BPSK	135	138	13.88	13.92	13.84	15.2	0.0	
100	P12 BPSK	270	0	13.76	13.89	13.84	15.2	0.0	
100	QPSK	1	1	14.49	14.51	14.38			
100	QPSK	1	137	14.21	14.37	14.36			
100	QPSK	1	271	14.27	14.38	14.33	15.2	0.0	
100	QPSK	135	0	14.17	14.33	14.32			
100	QPSK	135	69	14.43	14.45	14.18			
100	QPSK	135	138	13.96	13.94	14.08	15.2	0.0	
100	QPSK	270	0	14.14	14.25	14.22	15.2	0.0	
100	16QAM	1	1	14.45	14.48	14.34			
100	64QAM	1	1	14.17	14.33	14.32			
100	256QAM	1	1	14.23	14.34	14.29	15.2	0.0	
Channel				3745.02	3840	3935.01	Tune-up limit (dBm)		
90	QPSK	1	1	14.40	14.43	14.30	15.2	0.0	
Channel				649334	650000	650968	Tune-up limit (dBm)		
Frequency (MHz)				3740.01	3840	3940.02	(dB)		
80	QPSK	1	1	14.13	14.29	14.29	15.2	0.0	
Channel				648000	650000	650000	Tune-up limit (dBm)		
Frequency (MHz)				3735	3840	3945	(dB)		
70	QPSK	1	1	14.19	14.31	14.25	15.2	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)		
Frequency (MHz)				3730.02	3840	3950.01	(dB)		
60	QPSK	1	1	14.09	14.25	14.24	15.2	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)		
Frequency (MHz)				3725.01	3840	3955.02	(dB)		
50	QPSK	1	1	14.35	14.37	14.09	15.2	0.0	
Channel				647668	650000	650000	Tune-up limit (dBm)		
Frequency (MHz)				3720	3840	3960	(dB)		
40	QPSK	1	1	13.88	13.86	14.00	15.2	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)		
Frequency (MHz)				3715.02	3840	3935.01	(dB)		
30	QPSK	1	1	14.06	14.20	14.14	15.2	0.0	
Channel				647500	650000	654500	Tune-up limit (dBm)		
Frequency (MHz)				3712.5	3840	3967.5	(dB)		
25	QPSK	1	1	14.39	14.42	14.29	15.2	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)		
Frequency (MHz)				3710.01	3840	3970.02	(dB)		
20	QPSK	1	1	14.08	14.24	14.23	15.2	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)		
Frequency (MHz)				3707.52	3840	3972.51	(dB)		
15	QPSK	1	1	14.05	14.18	14.12	15.2	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)		
Frequency (MHz)				3705	3840	3975	(dB)		
10	QPSK	1	1	14.11	14.28	14.27	15.2	0.0	

Part270 n77 PC2 DSI3 Simultaneous Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	16.90	17.03	16.88	18.2	0.0	
100	P12 BPSK	1	137	16.83	17.07	16.94			
100	P12 BPSK	1	271	16.80	17.03	16.77			
100	P12 BPSK	135	0	16.36	16.54	16.43	18.2	0.0	
100	P12 BPSK	135	69	16.92	17.11	17.05	18.2	0.0	
100	P12 BPSK	135	138	16.48	16.55	16.38	18.2	0.0	
100	P12 BPSK	270	0	16.44	16.64	16.41	18.2	0.0	
100	QPSK	1	1	17.02	17.68	17.00			
100	QPSK	1	137	16.89	16.98	17.08			
100	QPSK	1	271	16.81	17.04	16.95	18.2	0.0	
100	QPSK	135	0	16.70	16.77	16.69			
100	QPSK	135	69	17.43	17.80	17.48			
100	QPSK	135	138	16.75	16.87	16.66	18.2	0.0	
100	QPSK	270	0	16.83	16.95	16.87	18.2	0.0	
100	16QAM	1	1	16.88	16.71	16.84			
100	64QAM	1	1	16.67	16.95	16.87			
100	256QAM	1	1	16.84	16.75	16.74	18.2	0.0	
Channel				650000	650000	650000	Tune-up limit (dbm)		
90	QPSK	1	1	16.83	17.07	16.90	18.2	0.0	
Channel				649334	650000	650968	Tune-up limit (dbm)		
Frequency (MHz)				3740.01	3840	3940.02	(db)		
80	QPSK	1	1	16.92	16.87	16.90	18.2	0.0	
Channel				648000	650000	650000	Tune-up limit (dbm)		
Frequency (MHz)				3735	3840	3945	(db)		
70	QPSK	1	1	16.89	16.99	16.96	18.2	0.0	
Channel				648668	650000	650334	Tune-up limit (dbm)		
Frequency (MHz)				3730.02	3840	3950.01	(db)		
60	QPSK	1	1	16.85	17.01	17.08	18.2	0.0	
Channel				648334	650000	650668	Tune-up limit (dbm)		
Frequency (MHz)				3725.01	3840	3955.02	(db)		
50	QPSK	1	1	16.83	16.87	17.00	18.2	0.0	
Channel				647668	650000	654334	Tune-up limit (dbm)		
Frequency (MHz)				3720	3840	3960	(db)		
40	QPSK	1	1	16.80	16.97	16.97	18.2	0.0	
Channel				647668	650000	654334	Tune-up limit (dbm)		
Frequency (MHz)				3715.02	3840	3935.01	(db)		
30	QPSK	1	1	16.84	16.89	16.88	18.2	0.0	
Channel				647500	650000	654500	Tune-up limit (dbm)		
Frequency (MHz)				3712.5	3840	3967.5	(db)		
25	QPSK	1	1	16.97	16.95	16.97	18.2	0.0	
Channel				647334	650000	654668	Tune-up limit (dbm)		
Frequency (MHz)				3710.01	3840	3970.02	(db)		
20	QPSK	1	1	16.89	16.99	16.96	18.2	0.0	
Channel				647168	650000	654834	Tune-up limit (dbm)		
Frequency (MHz)				3707.52	3840	3972.51	(db)		
15	QPSK	1	1	16.89	16.97	17.02	18.2	0.0	
Channel				647000	650000	655000	Tune-up limit (dbm)		
Frequency (MHz)				3705	3840	3975	(db)		
10	QPSK	1	1	16.88	17.05	16.98	18.2	0.0	

Part270 n78 DS13 Simultaneous Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	P12 BPSK	1	1		13.40		15.2	0.0	
100	P12 BPSK	1	137		13.22				
100	P12 BPSK	1	271		14.27				
100	P12 BPSK	135	0		13.80		15.2	0.0	
100	P12 BPSK	135	69		14.25		15.2	0.0	
100	P12 BPSK	135	138		13.83		15.2	0.0	
100	P12 BPSK	270	0		13.80		15.2	0.0	
100	QPSK	1	1		14.45				
100	QPSK	1	137		14.28				
100	QPSK	1	271		14.28		15.2	0.0	
100	QPSK	135	0		14.25				
100	QPSK	135	69		14.35				
100	QPSK	135	138		13.85		15.2	0.0	
100	QPSK	270	0		14.15		15.2	0.0	
100	16QAM	1	1		14.39				
100	64QAM	1	1		14.24		15.2	0.0	
100	256QAM	1	1		14.25		15.2	0.0	
Channel				66960	65000	650334			
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	14.27	14.28	14.27	15.2	0.0	
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	14.20	14.24	14.23	15.2	0.0	
Channel				649000	650000	651000			
Frequency (MHz)				3735 <th>3750</th> <th>3765</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	3750	3765	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	14.21	14.18	14.20	15.2	0.0	
Channel				646668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	13.84	13.83	13.80	15.2	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	14.17	14.13	14.12	15.2	0.0	
Channel				647000	650000	652000			
Frequency (MHz)				3720 <td>3750</td> <td>3780</td> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	3750	3780	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	14.30	14.28	14.33	15.2	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	14.19	14.18	14.15	15.2	0.0	
Channel				647500	650000	652500			
Frequency (MHz)				3712.5 <td>3750</td> <td>3787.5</td> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	3750	3787.5	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	14.29	14.33	14.33	15.2	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01 <td>3750</td> <td>3790.02</td> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	3750	3790.02	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	14.43	14.40	14.24	15.2	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52 <td>3750</td> <td>3792.51</td> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	3750	3792.51	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	14.28	14.34	14.29	15.2	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705 <td>3750</td> <td>3795</td> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	3750	3795	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	14.14	14.15	14.18	15.2	0.0	

Part270 n78 PC2 DSI3 Simultaneous Ant8								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		16.98			
100	PI2 BPSK	1	137		16.92		18.2	0.0
100	PI2 BPSK	1	271		16.41			
100	PI2 BPSK	135	0		16.56		18.2	0.0
100	PI2 BPSK	135	69		17.03		18.2	0.0
100	PI2 BPSK	135	138		16.56		18.2	0.0
100	PI2 BPSK	270	0		16.62			
100	QPSK	1	1		17.18			
100	QPSK	1	137		16.81		18.2	0.0
100	QPSK	1	271		16.43			
100	QPSK	135	0		16.49		18.2	0.0
100	QPSK	135	69		17.09		18.2	0.0
100	QPSK	135	138		16.37			
100	QPSK	270	0		16.52		18.2	0.0
100	16QAM	1	1		17.10		18.2	0.0
100	64QAM	1	1		16.35		18.2	0.0
100	256QAM	1	1		16.54		18.2	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	16.71	16.68	16.68	18.2	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	16.61	16.60	16.64	18.2	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	16.73	16.74	16.71	18.2	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3730.01		
60	QPSK	1	1	16.87	16.90	16.88	18.2	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	16.90	16.88	16.90	18.2	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3760		
40	QPSK	1	1	16.77	16.80	16.77	18.2	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3765.01		
30	QPSK	1	1	16.24	16.23	16.26	18.2	0.0
Channel				647300	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	16.70	16.66	16.69	18.2	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3760.02		
20	QPSK	1	1	16.63	16.61	16.64	18.2	0.0
Channel				647188	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	16.27	16.25	16.26	18.2	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	16.34	16.31	16.29	18.2	0.0



Part270 n77 DSI3 Simultaneous Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	17.02	17.07	16.98	17.9	0.0	
100	PV2 BPSK	1	137	16.87	16.97	16.86			
100	PV2 BPSK	1	271	16.93	16.99	16.84			
100	PV2 BPSK	135	0	17.01	17.08	17.03			
100	PV2 BPSK	135	69	16.84	17.04	16.96	17.9	0.0	
100	PV2 BPSK	135	138	16.83	16.99	16.93	17.9	0.0	
100	PV2 BPSK	270	0	17.04	17.09	16.97	17.9	0.0	
100	QPSK	1	1	17.04	17.09	16.97			
100	QPSK	1	137	17.06	17.06	17.00			
100	QPSK	1	271	16.93	17.02	16.87			
100	QPSK	135	0	16.98	17.07	16.96	17.9	0.0	
100	QPSK	135	69	17.00	17.11	17.05	17.9	0.0	
100	QPSK	135	138	16.82	16.91	16.86	17.9	0.0	
100	QPSK	270	0	16.86	17.05	16.91	17.9	0.0	
100	16QAM	1	1	16.95	17.04	16.92	17.9	0.0	
100	64QAM	1	1	17.03	17.05	16.80	17.9	0.0	
100	256QAM	1	1	16.90	17.00	16.94	17.9	0.0	
Channel				648668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	16.93	16.98	16.94	17.9	0.0	
Channel				649334	650000	650968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.01	3840	3940.02			
80	QPSK	1	1	17.04	17.06	16.83	17.9	0.0	
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	16.95	16.95	16.83	17.9	0.0	
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3840	3950.01			
60	QPSK	1	1	16.90	17.02	16.76	17.9	0.0	
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	16.87	17.08	16.85	17.9	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.02	3840	3960.01			
40	QPSK	1	1	17.03	16.99	16.80	17.9	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3963.01			
30	QPSK	1	1	16.92	16.97	16.77	17.9	0.0	
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	16.96	17.03	16.85	17.9	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.88	16.94	16.87	17.9	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	16.91	16.95	16.83	17.9	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	16.90	17.04	16.87	17.9	0.0	

Part270 n77 PC2 DSI3 Simultaneous Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	19.94	20.01	20.03	20.9	0.0	
100	PV2 BPSK	1	137	19.94	19.98	19.84			
100	PV2 BPSK	1	271	19.81	19.94	19.77			
100	PV2 BPSK	135	0	19.97	19.97	19.86			
100	PV2 BPSK	135	69	19.84	19.95	19.85	20.9	0.0	
100	PV2 BPSK	135	138	19.79	19.82	19.72	20.9	0.0	
100	PV2 BPSK	270	0	19.93	20.00	19.85	20.9	0.0	
100	QPSK	1	1	19.94	20.11	19.97			
100	QPSK	1	137	19.81	19.92	19.91			
100	QPSK	1	271	19.85	19.92	19.79			
100	QPSK	135	0	19.87	19.95	19.77	20.9	0.0	
100	QPSK	135	69	19.89	19.92	19.82	20.9	0.0	
100	QPSK	135	138	19.85	19.77	19.63	20.9	0.0	
100	QPSK	270	0	19.76	19.85	19.74	20.9	0.0	
100	16QAM	1	1	19.84	20.00	19.87	20.9	0.0	
100	64QAM	1	1	19.69	19.75	19.69	20.9	0.0	
100	256QAM	1	1	19.79	19.81	19.72	20.9	0.0	
Channel				648668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	19.81	19.93	19.88	20.9	0.0	
Channel				649334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3743.01	3840	3940.02			
80	QPSK	1	1	19.89	19.98	19.84	20.9	0.0	
Channel				649000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	19.76	19.89	19.81	20.9	0.0	
Channel				648668	650000	653334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720.02	3840	3950.01			
60	QPSK	1	1	19.79	19.93	19.78	20.9	0.0	
Channel				648334	650000	653668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	19.82	19.95	19.85	20.9	0.0	
Channel				647668	650000	654334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3713.02	3840	3963.01			
40	QPSK	1	1	19.72	19.89	19.81	20.9	0.0	
Channel				647668	650000	654334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3713.02	3840	3963.01			
30	QPSK	1	1	19.77	20.01	19.70	20.9	0.0	
Channel				647500	650000	654500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	19.78	19.98	19.86	20.9	0.0	
Channel				647334	650000	654668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	19.81	19.98	19.79	20.9	0.0	
Channel				647168	650000	654834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	19.80	19.92	19.85	20.9	0.0	
Channel				647000	650000	655000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	19.74	20.04	19.81	20.9	0.0	

Part270 n78 DSI3 Simultaneous Ant9										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PV2 BPSK	1	1	16.57	16.59	16.59	17.9	0.0		
100	PV2 BPSK	1	137	16.54	16.53	16.42				
100	PV2 BPSK	1	271	16.41	16.51	16.45				
100	PV2 BPSK	135	0	16.87	16.58	16.86				
100	PV2 BPSK	135	69	16.44	16.65	16.54	17.9	0.0		
100	PV2 BPSK	135	138	16.41	16.48	16.45	17.9	0.0		
100	PV2 BPSK	270	0	16.57	16.68	16.59	17.9	0.0		
100	QPSK	1	1	16.80	16.71	16.56				
100	QPSK	1	137	16.55	16.55	16.58				
100	QPSK	1	271	16.56	16.65	16.45				
100	QPSK	135	0	16.82	16.66	16.62	17.9	0.0		
100	QPSK	135	69	16.64	16.70	16.68	17.9	0.0		
100	QPSK	135	138	16.35	16.49	16.43	17.9	0.0		
100	QPSK	270	0	16.49	16.49	16.45	17.9	0.0		
100	16QAM	1	1	16.63	16.68	16.38	17.9	0.0		
100	64QAM	1	1	16.43	16.39	16.40				
100	256QAM	1	1	16.48	16.62	16.59				17.9
100	256QAM	1	1	16.48	16.62	16.59				17.9
Channel				40000	620000	20000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3745.02	3755.01				
90	QPSK	1	1	16.57	16.66	16.41	17.9	0.0		
Channel				640334	650000	650668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3760.01	3750	3760.02				
80	QPSK	1	1	16.53	16.50	16.45	17.9	0.0		
Channel				645000	650000	651000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1	16.48	16.62	16.49	17.9	0.0		
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3748.02	3750	3750.01				
60	QPSK	1	1	16.49	16.63	16.44	17.9	0.0		
Channel				648334	650000	651068	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1	16.48	16.68	16.39	17.9	0.0		
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1	16.50	16.62	16.39	17.9	0.0		
Channel				647888	650000	652334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3750	3765.01				
30	QPSK	1	1	16.51	16.50	16.43	17.9	0.0		
Channel				647600	650000	652600	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3712.5	3750	3787.5				
25	QPSK	1	1	16.57	16.64	16.50	17.9	0.0		
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1	16.56	16.57	16.50	17.9	0.0		
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3707.52	3750	3792.51				
15	QPSK	1	1	16.52	16.58	16.39	17.9	0.0		
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1	16.57	16.60	16.50	17.9	0.0		

Part270 n78 PC2 DSI3 Simultaneous Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq 650000	Power Middle Ch / Freq 650000	Power High Ch / Freq 650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	20.59	20.69	20.66		
100	PI2 BPSK	1	137	20.53	20.50	20.41	20.9	0.0
100	PI2 BPSK	1	271	20.35	20.37	20.46		
100	PI2 BPSK	135	0	20.64	20.55	20.63	20.9	0.0
100	PI2 BPSK	135	69	20.45	20.72	20.59	20.9	0.0
100	PI2 BPSK	135	138	20.45	20.46	20.44	20.9	0.0
100	PI2 BPSK	270	0	20.57	20.65	20.54		
100	QPSK	1	1	20.68	20.76	20.73		
100	QPSK	1	137	20.59	20.52	20.63	20.9	0.0
100	QPSK	1	271	20.57	20.69	20.48		
100	QPSK	135	0	20.54	20.69	20.61	20.9	0.0
100	QPSK	135	69	20.57	20.73	20.70	20.9	0.0
100	QPSK	135	138	20.40	20.30	20.42		
100	QPSK	270	0	20.50	20.59	20.48	20.9	0.0
100	16QAM	1	1	20.67	20.63	20.36	20.9	0.0
100	64QAM	1	1	20.50	20.35	20.43	20.9	0.0
100	256QAM	1	1	20.47	20.58	20.54	20.9	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	20.62	20.66	20.61	20.9	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	20.52	20.63	20.56	20.9	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	20.53	20.59	20.70	20.9	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3730.02		
60	QPSK	1	1	20.61	20.62	20.64	20.9	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	20.57	20.58	20.70	20.9	0.0
Channel				648334	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3760		
40	QPSK	1	1	20.58	20.62	20.64	20.9	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3765.01		
30	QPSK	1	1	20.65	20.72	20.67	20.9	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3767.5		
25	QPSK	1	1	20.56	20.67	20.65	20.9	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3760.02		
20	QPSK	1	1	20.66	20.70	20.57	20.9	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3762.51		
15	QPSK	1	1	20.65	20.66	20.70	20.9	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3765		
10	QPSK	1	1	20.50	20.61	20.58	20.9	0.0

n41 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				500202	518598	538000	18.2	0.0	
Frequency (MHz)				2548.01	2592.99	2640			
100	PV2 BPSK	1	1	16.67	16.80	16.72			
100	PV2 BPSK	1	137	16.80	16.76	16.78	18.2	0.0	
100	PV2 BPSK	1	271	16.49	16.59	16.47			
100	PV2 BPSK	135	0	16.28	16.30	16.25			
100	PV2 BPSK	135	69	16.44	16.57	16.46	18.2	0.0	
100	PV2 BPSK	135	138	16.28	16.34	16.26	18.2	0.0	
100	PV2 BPSK	270	0	16.35	16.48	16.34	18.2	0.0	
100	QPSK	1	1	16.72	16.96	16.76			
100	QPSK	1	137	16.66	16.77	16.65			
100	QPSK	1	271	16.52	16.63	16.47	18.2	0.0	
100	QPSK	135	0	16.32	16.47	16.33			
100	QPSK	135	69	16.76	16.79	16.71			
100	QPSK	135	138	16.76	16.69	16.70	18.2	0.0	
100	QPSK	270	0	16.68	16.78	16.69	18.2	0.0	
100	16QAM	1	1	16.38	16.39	16.39			
100	64QAM	1	1	16.39	16.49	16.44	18.2	0.0	
100	256QAM	1	1	16.40	16.41	16.35	18.0	0.2	
Channel				500202	518598	538000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	16.28	16.40	16.37	18.2	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	16.27	16.42	16.37	18.2	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	16.29	16.48	16.28	18.2	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	16.40	16.44	16.44	18.2	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	16.28	16.49	16.41	18.2	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	16.32	16.37	16.41	18.2	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2714.98			
30	QPSK	1	1	16.32	16.35	16.42	18.2	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	16.37	16.40	16.38	18.2	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.5	2592.99	2682.48			
15	QPSK	1	1	16.40	16.49	16.42	18.2	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	16.39	16.40	16.35	18.2	0.0	

Reduced Power Mode for DSI 4

n5 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800	24.0	0.0	
Frequency (MHz)				834	836.5	839			
20	PV2 BPSK	1	1	23.04	23.13	22.99	24.0	0.0	
20	PV2 BPSK	1	53	22.90	23.03	22.93			
20	PV2 BPSK	1	104	23.00	23.10	22.97			
20	PV2 BPSK	50	0	22.58	22.64	22.55	23.5	0.5	
20	PV2 BPSK	50	28	22.82	22.88	22.85	24.0	0.0	
20	PV2 BPSK	50	56	22.57	22.70	22.53	23.5	0.5	
20	PV2 BPSK	100	0	22.61	22.73	22.58			
20	QPSK	1	1	23.18	23.19	23.02	24.0	0.0	
20	QPSK	1	53	22.88	23.08	22.91			
20	QPSK	1	104	23.09	23.12	23.04			
20	QPSK	50	0	22.15	22.17	22.13	23.0	1.0	
20	QPSK	50	28	23.11	23.14	23.08	24.0	0.0	
20	QPSK	50	56	22.12	22.22	22.06	23.0	1.0	
20	QPSK	100	0	22.28	22.31	22.24			
20	16QAM	1	1	22.02	22.05	21.96	23.0	1.0	
20	64QAM	1	1	20.87	21.02	20.95	21.5	2.5	
20	256QAM	1	1	18.39	18.49	18.37	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.03	23.10	22.97	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.05	23.02	22.95	24.0	0.0	
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.09	23.04	22.85	24.0	0.0	

n41 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505202	518598	528000	24.0	0.0	
Frequency (MHz)				2645.01	2592.99	2640			
100	PB2 BPSK	1	1	23.06	23.15	23.12			
100	PB2 BPSK	1	137	23.00	23.07	22.97			
100	PB2 BPSK	1	271	23.05	23.13	23.05	23.5	0.5	
100	PB2 BPSK	135	0	22.57	22.71	22.65			
100	PB2 BPSK	135	69	22.87	23.04	22.94			
100	PB2 BPSK	135	138	22.56	22.68	22.51			
100	PB2 BPSK	270	0	22.58	22.73	22.60	23.5	0.5	
100	QPSK	1	1	23.09	23.18	23.05			
100	QPSK	1	137	22.88	23.06	22.96			
100	QPSK	1	271	23.02	23.12	23.09			
100	QPSK	135	0	22.09	22.18	22.07	23.0	1.0	
100	QPSK	135	69	22.99	23.13	23.02			
100	QPSK	135	138	22.11	22.21	22.13			
100	QPSK	270	0	22.14	22.21	22.11			
100	16QAM	1	1	21.88	22.00	21.96	23.0	1.0	
100	64QAM	1	1	20.57	20.68	20.62			
100	256QAM	1	1	18.36	18.54	18.37			
Channel				508200	518598	528998			
90	QPSK	1	1	23.05	23.07	22.99	24.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2538.02	2592.99	2649.98			
80	QPSK	1	1	22.98	23.02	22.94		24.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.93	23.03	22.98		24.0	
Channel				505200	518598	531996			
Frequency (MHz)				2528	2592.99	2659.98			
60	QPSK	1	1	22.92	23.14	23.02		24.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.93	23.06	22.88	24.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.07	23.11	22.89		24.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.95	23.10	22.96	24.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.94	23.04	22.99		24.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	22.98	23.16	22.99	24.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	23.07	23.13	22.90		24.0	



n2 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000	24.0	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	23.61	23.63	23.55			
20	PI2 BPSK	1	53	23.50	23.59	23.52	23.5	0.5	
20	PI2 BPSK	1	104	23.39	23.42	23.32			
20	PI2 BPSK	50	0	23.21	23.24	23.12			
20	PI2 BPSK	50	28	23.57	23.61	23.49	24.0	0.0	
20	PI2 BPSK	50	58	23.04	23.19	23.11	23.5	0.5	
20	PI2 BPSK	100	0	23.14	23.22	23.16			
20	QPSK	1	1	23.58	23.66	23.63			
20	QPSK	1	53	23.57	23.62	23.50	24.0	0.0	
20	QPSK	1	104	23.38	23.55	23.48	23.0	1.0	
20	QPSK	50	0	22.80	22.72	22.54			
20	QPSK	50	28	23.54	23.61	23.50			
20	QPSK	50	58	22.62	22.67	22.44	23.0	1.0	
20	QPSK	100	0	22.67	22.74	22.62	23.0	1.0	
20	16QAM	1	1	22.48	22.55	22.40			
20	64QAM	1	1	21.26	21.33	21.18	21.5	2.5	
20	256QAM	1	1	18.88	18.98	18.93	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5	24.0	0.0	
15	QPSK	1	1	23.48	23.50	23.55			
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1920	1905	24.0	0.0	
10	QPSK	1	1	23.43	23.49	23.60			
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5	24.0	0.0	
5	QPSK	1	1	23.43	23.53	23.54			

n7 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000	24.0	0.0	
Frequency (MHz)				2620	2635	2650			
40	PI2 BPSK	1	1	23.18	23.25	23.21			
40	PI2 BPSK	1	108	23.20	23.30	23.17	23.5	0.5	
40	PI2 BPSK	1	214	23.22	23.28	23.21			
40	PI2 BPSK	108	0	22.82	22.89	22.82			
40	PI2 BPSK	108	54	23.24	23.33	23.24	24.0	0.0	
40	PI2 BPSK	108	108	22.75	22.88	22.79	23.5	0.5	
40	PI2 BPSK	216	0	22.77	22.91	22.79			
40	QPSK	1	1	23.27	23.34	23.31			
40	QPSK	1	108	23.12	23.27	23.09	24.0	0.0	
40	QPSK	1	214	23.19	23.24	23.06	23.0	1.0	
40	QPSK	108	0	22.20	22.32	22.24			
40	QPSK	108	54	23.20	23.29	23.27			
40	QPSK	108	108	22.22	22.36	22.25	23.0	1.0	
40	QPSK	216	0	22.30	22.35	22.34	23.0	1.0	
40	16QAM	1	1	22.22	22.27	22.18			
40	64QAM	1	1	20.90	20.97	20.87	21.5	2.5	
40	256QAM	1	1	18.73	18.75	18.58	19.5	4.5	
Channel				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2615	2635	2655	24.0	0.0	
30	QPSK	1	1	23.21	23.20	23.19			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2635	2657.5	24.0	0.0	
25	QPSK	1	1	23.10	23.18	23.14			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2610	2635	2660	24.0	0.0	
20	QPSK	1	1	23.20	23.26	23.15			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2607.5	2635	2662.5	24.0	0.0	
15	QPSK	1	1	23.18	23.29	23.14			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2605	2635	2665	24.0	0.0	
10	QPSK	1	1	23.13	23.32	23.17			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.5	2635	2667.5	24.0	0.0	
5	QPSK	1	1	23.11	23.22	23.14			

n66 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	24.0	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	23.30	23.40	23.23			
40	PI2 BPSK	1	108	23.32	23.34	23.21	23.5	0.5	
40	PI2 BPSK	1	214	23.17	23.26	23.13			
40	PI2 BPSK	108	0	22.77	22.94	22.91			
40	PI2 BPSK	108	54	23.20	23.33	23.26	24.0	0.0	
40	PI2 BPSK	108	108	22.71	22.87	22.73	23.5	0.5	
40	PI2 BPSK	216	0	22.73	22.89	22.73			
40	QPSK	1	1	23.41	23.49	23.40			
40	QPSK	1	108	23.30	23.37	23.32	24.0	0.0	
40	QPSK	1	214	23.17	23.32	23.18	23.0	1.0	
40	QPSK	108	0	22.35	22.42	22.38			
40	QPSK	108	54	23.39	23.47	23.42			
40	QPSK	108	108	22.34	22.39	22.27	23.0	1.0	
40	QPSK	216	0	22.37	22.44	22.41	23.0	1.0	
40	16QAM	1	1	22.44	22.51	22.34			
40	64QAM	1	1	21.01	21.03	20.85	21.5	2.5	
40	256QAM	1	1	18.94	19.08	18.98	19.5	4.5	
Channel				345500	349000	352500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	23.39	23.35	23.29			
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5	24.0	0.0	
25	QPSK	1	1	23.28	23.46	23.34			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	23.29	23.44	23.25			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	23.26	23.41	23.32			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	23.30	23.38	23.35			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	23.35	23.31	23.37			

n38 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	24.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	23.05	23.16	23.11			
40	PI/2 BPSK	1	53	23.01	23.12	22.97	24.0	0.0	
40	PI/2 BPSK	1	104	22.94	23.07	22.94			
40	PI/2 BPSK	50	0	22.54	22.69	22.58		23.5	
40	PI/2 BPSK	50	28	23.01	23.09	22.94	24.0	0.0	
40	PI/2 BPSK	50	56	22.57	22.61	22.45	23.5	0.5	
40	PI/2 BPSK	100	0	22.48	22.65	22.55	24.0	0.0	
40	QPSK	1	1	23.03	23.22	23.16			
40	QPSK	1	53	22.94	23.06	22.90			
40	QPSK	1	104	23.01	23.10	22.98	23.0	1.0	
40	QPSK	50	0	22.10	22.13	22.08			
40	QPSK	50	28	23.12	23.17	23.03		24.0	
40	QPSK	80	56	21.90	22.06	22.00	23.0	1.0	
40	QPSK	100	0	22.12	22.15	22.05	23.0	1.0	
40	16QAM	1	1	22.00	22.14	22.10			
40	64QAM	1	1	20.49	20.68	20.63		21.5	
40	256QAM	1	1	18.44	18.62	18.48	19.5	4.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.01	2595	2604.99	24.0	0.0	
30	QPSK	1	1	23.16	23.12	23.08	24.0	0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48	24.0	0.0	
25	QPSK	1	1	23.17	23.15	23.09	24.0	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610	24.0	0.0	
20	QPSK	1	1	23.17	23.10	23.15	24.0	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49	24.0	0.0	
15	QPSK	1	1	23.16	23.21	23.16	24.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98	24.0	0.0	
10	QPSK	1	1	23.21	23.17	23.06	24.0	0.0	

n41 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518598	520600	24.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	23.08	23.18	23.12			
100	PI/2 BPSK	1	137	23.04	23.15	22.99	24.0	0.0	
100	PI/2 BPSK	1	271	22.95	23.10	22.97			
100	PI/2 BPSK	135	0	22.56	22.71	22.61		23.5	
100	PI/2 BPSK	135	69	23.04	23.11	22.97	24.0	0.0	
100	PI/2 BPSK	135	138	22.58	22.63	22.47	23.5	0.5	
100	PI/2 BPSK	270	0	22.51	22.67	22.57	24.0	0.0	
100	QPSK	1	1	23.06	23.24	23.16			
100	QPSK	1	137	22.96	23.08	22.92			
100	QPSK	1	271	23.03	23.13	23.00	23.0	1.0	
100	QPSK	135	0	22.13	22.16	22.10			
100	QPSK	135	69	23.14	23.18	23.05		24.0	
100	QPSK	135	138	21.92	22.09	22.01	23.0	1.0	
100	QPSK	270	0	22.13	22.16	22.08	23.0	1.0	
100	16QAM	1	1	22.02	22.16	22.11			
100	64QAM	1	1	20.52	20.69	20.66	21.5	2.5	
100	256QAM	1	1	18.47	18.64	18.51	19.5	4.5	
Channel				506200	518598	520598	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	22.94	23.21	23.11	24.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	22.90	23.10	23.03	24.0	0.0	
Channel				506202	518598	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	24.0	0.0	
70	QPSK	1	1	23.00	23.12	23.13	24.0	0.0	
Channel				505200	518598	521998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	22.93	23.06	23.06	24.0	0.0	
Channel				504204	518598	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	22.91	23.17	23.06	24.0	0.0	
Channel				503202	518598	523000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	23.01	23.20	23.06	24.0	0.0	
Channel				502200	518598	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99	24.0	0.0	
30	QPSK	1	1	22.88	23.07	23.06	24.0	0.0	
Channel				501204	518598	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	23.00	23.15	23.15	24.0	0.0	
Channel				500700	518598	526498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2493.15	2592.99	2684.48	24.0	0.0	
15	QPSK	1	1	23.00	23.08	23.06	24.0	0.0	
Channel				500202	518598	527000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	24.0	0.0	
10	QPSK	1	1	22.89	23.14	23.01	24.0	0.0	

n7 Ant2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50000	50700	51000	24.0	0.0
Frequency (MHz)				2620	2635	2650		
40	PI2 BPSK	1	1	23.20	23.18	23.12	24.0	0.0
40	PI2 BPSK	1	108	23.18	23.23	23.10		
40	PI2 BPSK	1	214	23.23	23.14	23.07		
40	PI2 BPSK	108	0	22.51	22.83	22.85	23.5	0.5
40	PI2 BPSK	108	54	22.82	23.14	23.13	24.0	0.0
40	PI2 BPSK	108	108	22.88	22.74	22.61	23.5	0.5
40	PI2 BPSK	216	0	22.61	22.74	22.61	24.0	0.0
40	QPSK	1	1	23.09	23.30	23.28		
40	QPSK	1	108	23.24	23.19	23.08		
40	QPSK	1	214	23.05	23.19	23.17	23.0	1.0
40	QPSK	108	0	22.06	22.08	22.14		
40	QPSK	108	54	23.03	23.29	23.21		
40	QPSK	108	108	22.17	22.25	22.27	23.0	1.0
40	QPSK	216	0	22.02	22.31	22.30	23.0	1.0
40	16QAM	1	1	22.16	22.25	22.17		
40	64QAM	1	1	20.49	20.83	20.69		
40	256QAM	1	1	18.82	18.72	18.58	19.5	4.5
Channel				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2615	2635	2655		
30	QPSK	1	1	23.08	23.26	23.19	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2635	2657.5		
25	QPSK	1	1	23.01	23.10	23.12	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2610	2635	2660		
20	PI2 BPSK	1	1	23.25	23.09	23.12	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2607.5	2635	2662.5		
15	QPSK	1	1	23.01	23.19	23.24	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2605	2635	2665		
10	QPSK	1	1	22.97	23.10	23.02	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.5	2635	2667.5		
5	QPSK	1	1	23.20	23.10	23.05	24.0	0.0

n38 Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	22.69	22.72	22.60			
40	PI/2 BPSK	1	53	22.60	22.66	22.58	24.0	0.0	
40	PI/2 BPSK	1	104	22.59	22.60	22.56			
40	PI/2 BPSK	50	0	22.07	22.15	22.12	23.5	0.5	
40	PI/2 BPSK	50	28	22.43	22.61	22.48	24.0	0.0	
40	PI/2 BPSK	50	56	21.97	22.02	21.88	23.5	0.5	
40	PI/2 BPSK	100	0	21.91	22.03	22.00			
40	QPSK	1	1	22.77	22.86	22.64			
40	QPSK	1	53	22.54	22.66	22.53	24.0	0.0	
40	QPSK	1	104	22.56	22.61	22.50			
40	QPSK	50	0	21.46	21.59	21.43	23.0	1.0	
40	QPSK	50	28	22.59	22.69	22.59	24.0	0.0	
40	QPSK	80	56	21.51	21.54	21.53	23.0	1.0	
40	QPSK	100	0	21.55	21.60	21.57			
40	16QAM	1	1	21.66	21.82	21.65	23.0	1.0	
40	64QAM	1	1	20.49	20.58	20.40	21.5	2.5	
40	256QAM	1	1	17.59	17.67	17.63	19.5	4.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	22.20	22.22	22.03	24.0	0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	22.10	22.20	22.11	24.0	0.0	
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.18	22.15	22.07	24.0	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.19	22.12	22.09	24.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	22.08	22.10	22.11	24.0	0.0	

n41 Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	520000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.86	22.94	22.91			
100	PI/2 BPSK	1	137	22.90	22.96	22.91	24.0	0.0	
100	PI/2 BPSK	1	271	22.77	22.91	22.79			
100	PI/2 BPSK	135	0	22.47	22.55	22.41	23.5	0.5	
100	PI/2 BPSK	135	69	22.93	22.98	22.85	24.0	0.0	
100	PI/2 BPSK	135	138	22.40	22.49	22.44	23.5	0.5	
100	PI/2 BPSK	270	0	22.36	22.53	22.45			
100	QPSK	1	1	22.96	23.03	22.99			
100	QPSK	1	137	22.87	23.00	22.85	24.0	0.0	
100	QPSK	1	271	22.82	22.97	22.82			
100	QPSK	135	0	22.06	22.11	22.06	23.0	1.0	
100	QPSK	135	69	22.93	22.97	22.91	24.0	0.0	
100	QPSK	135	138	21.96	22.01	21.92	23.0	1.0	
100	QPSK	270	0	21.98	22.03	21.94			
100	16QAM	1	1	21.91	22.08	21.97	23.0	1.0	
100	64QAM	1	1	20.48	20.61	20.56	21.5	2.5	
100	256QAM	1	1	18.48	18.52	18.46	19.5	4.5	
Channel				506000	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.92	22.96	22.88	24.0	0.0	
Channel				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	1	22.90	22.89	22.96	24.0	0.0	
Channel				506002	518998	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.90	22.86	22.92	24.0	0.0	
Channel				505200	518998	521998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	22.90	22.99	22.82	24.0	0.0	
Channel				504204	518998	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.94	22.94	22.87	24.0	0.0	
Channel				503202	518998	523000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.88	22.91	22.86	24.0	0.0	
Channel				502200	518998	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	22.89	22.92	22.86	24.0	0.0	
Channel				501204	518998	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.93	22.97	22.91	24.0	0.0	
Channel				500700	518998	526498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2499.15	2592.99	2684.48			
15	QPSK	1	1	22.82	22.85	22.88	24.0	0.0	
Channel				500202	518998	527000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	22.88	22.90	22.81	24.0	0.0	



Part270 n77 Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	22.75	22.80	22.80	24.0	0.0	
100	P12 BPSK	1	137	22.64	22.75	22.68			
100	P12 BPSK	1	271	22.67	22.71	22.59			
100	P12 BPSK	135	0	22.16	22.30	22.26			
100	P12 BPSK	135	69	22.61	22.77	22.70	24.0	0.0	
100	P12 BPSK	135	138	22.24	22.32	22.29	23.5	0.5	
100	P12 BPSK	270	0	22.26	22.37	22.35	24.0	0.0	
100	QPSK	1	1	22.79	22.81	22.84			
100	QPSK	1	137	22.66	22.79	22.69			
100	QPSK	1	271	22.67	22.74	22.66			
100	QPSK	135	0	21.87	21.82	21.80	23.0	1.0	
100	QPSK	135	69	22.63	22.78	22.71	24.0	0.0	
100	QPSK	135	138	21.86	21.76	21.86	23.0	1.0	
100	QPSK	270	0	21.76	21.82	21.81	23.0	1.0	
100	16QAM	1	1	21.37	21.48	21.32			
100	64QAM	1	1	20.01	20.16	20.11			
100	256QAM	1	1	18.14	18.18	18.09			
Channel				648959	650000	650334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	22.74	22.74	22.47	24.0	0.0	
Channel				649334	650000	650968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.65	22.69	22.59	24.0	0.0	
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.73	22.64	22.61	24.0	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	22.63	22.65	22.56	24.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.62	22.72	22.50	24.0	0.0	
Channel				647900	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.74	22.77	22.57	24.0	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3953.01			
30	QPSK	1	1	22.75	22.70	22.49	24.0	0.0	
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	22.86	22.67	22.56	24.0	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.73	22.71	22.47	24.0	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.73	22.75	22.60	24.0	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.67	22.78	22.52	24.0	0.0	

Part270 n77 PC2 Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	25.68	25.78	25.74	27.0	0.0	
100	P12 BPSK	1	137	25.65	25.82	25.79			
100	P12 BPSK	1	271	25.64	25.77	25.60			
100	P12 BPSK	135	0	25.22	25.37	25.20			
100	P12 BPSK	135	69	25.77	25.85	25.82	27.0	0.0	
100	P12 BPSK	135	138	25.27	25.33	25.18	26.5	0.5	
100	P12 BPSK	270	0	25.29	25.39	25.24	27.0	0.0	
100	QPSK	1	1	25.79	25.89	25.84			
100	QPSK	1	137	25.67	25.82	25.80			
100	QPSK	1	271	25.69	25.78	25.68			
100	QPSK	135	0	24.69	24.81	24.69	26.0	1.0	
100	QPSK	135	69	25.66	25.77	25.72	27.0	0.0	
100	QPSK	135	138	24.64	24.82	24.72	26.0	1.0	
100	QPSK	270	0	24.71	24.90	24.83	26.0	1.0	
100	16QAM	1	1	24.77	24.85	24.79			
100	64QAM	1	1	23.35	23.39	23.28			
100	256QAM	1	1	20.99	21.02	20.88			
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	25.82	25.82	25.69	27.0	0.0	
Channel				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	25.76	25.72	25.72	27.0	0.0	
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	25.72	25.78	25.70	27.0	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	25.68	25.77	25.81	27.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	25.69	25.74	25.75	27.0	0.0	
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	25.85	25.81	25.70	27.0	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3953.01			
30	QPSK	1	1	25.68	25.71	25.75	27.0	0.0	
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	25.73	25.78	25.79	27.0	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	25.76	25.79	25.81	27.0	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	25.73	25.85	25.74	27.0	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	25.66	25.86	25.80	27.0	0.0	

Part270 n78 Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	P12 BPSK	1	1		22.90		24.0	0.0	
100	P12 BPSK	1	137		22.97				
100	P12 BPSK	1	271		22.97				
100	P12 BPSK	135	0		22.59				
100	P12 BPSK	135	69		22.92		24.0	0.0	
100	P12 BPSK	135	138		22.84		23.5	0.5	
100	P12 BPSK	270	0		22.89		24.0	0.0	
100	QPSK	1	1		23.06				
100	QPSK	1	137		23.04				
100	QPSK	1	271		23.00				
100	QPSK	135	0		22.03		23.0	1.0	
100	QPSK	135	69		23.01		24.0	0.0	
100	QPSK	135	138		22.03		23.0	1.0	
100	QPSK	270	0		22.15		23.0	1.0	
100	16QAM	1	1		21.92		23.0	1.0	
100	64QAM	1	1		20.97		21.5	2.5	
100	256QAM	1	1		18.93		19.5	4.5	
Channel				646660	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.88	22.75	22.84	24.0	0.0	
Channel				646334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.92	22.84	22.93	24.0	0.0	
Channel				645000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.98	23.01	22.80	24.0	0.0	
Channel				646668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3750	3760.01			
60	QPSK	1	1	22.85	22.87	22.88	24.0	0.0	
Channel				646334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735.01	3750	3775.02			
50	QPSK	1	1	22.76	22.89	22.86	24.0	0.0	
Channel				646000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.84	22.85	22.86	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1	22.85	22.85	22.86	24.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	22.91	23.00	22.90	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	22.83	22.91	22.83	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	22.86	22.87	22.94	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.87	22.91	22.84	24.0	0.0	

Part270 n78 PC2 Ant3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq 650000	Power Middle Ch / Freq 650000	Power High Ch / Freq 650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		25.80			
100	PI/2 BPSK	1	137		25.79		27.0	0.0
100	PI/2 BPSK	1	271		25.83			
100	PI/2 BPSK	135	0		25.42		28.5	0.5
100	PI/2 BPSK	135	69		25.75		27.0	0.0
100	PI/2 BPSK	135	138		25.25		28.5	0.5
100	PI/2 BPSK	270	0		25.28			
100	QPSK	1	1		25.86			
100	QPSK	1	137		25.82		27.0	0.0
100	QPSK	1	271		25.69			
100	QPSK	135	0		24.91		28.0	1.0
100	QPSK	135	69		25.84		27.0	0.0
100	QPSK	135	138		24.71		28.0	1.0
100	QPSK	270	0		24.78			
100	16QAM	1	1		25.07		28.0	1.0
100	64QAM	1	1		23.73		24.5	2.5
100	256QAM	1	1		21.55		22.5	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	25.80	25.85	25.78	27.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	25.80	25.78	25.85	27.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	#VALUE!	3765		
70	QPSK	1	1	25.73	25.75	25.75	27.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	25.80	25.81	25.81	27.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	25.77	25.79	25.85	27.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	25.81	25.84	25.79	27.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	25.75	25.74	25.81	27.0	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	25.80	25.75	25.74	27.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	25.72	25.78	25.80	27.0	0.0
Channel				647188	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	25.78	25.82	25.82	27.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	25.80	25.66	25.73	27.0	0.0

n41 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				500202	518598	539000	22.5	0.0	
Frequency (MHz)				2548.01	2592.99	2640			
100	PV2 BPSK	1	1	20.97	21.10	21.02			
100	PV2 BPSK	1	137	21.11	21.06	21.07	22.5	0.0	
100	PV2 BPSK	1	271	20.79	20.88	20.77			
100	PV2 BPSK	135	0	20.48	20.59	20.55		22.0	
100	PV2 BPSK	135	69	20.74	20.88	20.76	22.5	0.5	
100	PV2 BPSK	135	138	20.58	20.64	20.55			
100	PV2 BPSK	270	0	20.66	20.79	20.63		22.0	
100	QPSK	1	1	21.02	21.12	21.06	22.5	0.0	
100	QPSK	1	137	20.95	21.07	20.96			
100	QPSK	1	271	20.81	20.93	20.76			
100	QPSK	135	0	20.63	20.77	20.62	21.5	1.0	
100	QPSK	135	69	21.07	21.09	21.00			
100	QPSK	135	138	20.32	20.39	20.25		21.5	
100	QPSK	270	0	20.33	20.48	20.45	21.5	1.0	
100	16QAM	1	1	20.19	20.29	20.18			
100	64QAM	1	1	19.56	19.73	19.66	20.0	2.5	
100	256QAM	1	1	17.71	17.79	17.75	18.0	4.5	
Channel				500200	518598	539998	Tune-up limit (dBm)		
Frequency (MHz)				2541	2592.99	2644.98	MPR (dB)		
90	QPSK	1	1	20.88	20.99	20.97	22.5		
Channel				507204	518598	529998	Tune-up limit (dBm)		
Frequency (MHz)				2536.02	2592.99	2643.99	MPR (dB)		
80	QPSK	1	1	20.87	21.02	20.99	22.5		
Channel				506202	518598	531000	Tune-up limit (dBm)		
Frequency (MHz)				2531.01	2592.99	2655	MPR (dB)		
70	QPSK	1	1	20.89	21.07	20.89	22.5		
Channel				505200	518598	531998	Tune-up limit (dBm)		
Frequency (MHz)				2526	2592.99	2659.98	MPR (dB)		
60	QPSK	1	1	20.99	21.03	21.03	22.5		
Channel				504204	518598	532998	Tune-up limit (dBm)		
Frequency (MHz)				2521.02	2592.99	2664.98	MPR (dB)		
50	QPSK	1	1	20.88	21.09	21.00	22.5		
Channel				503202	518598	534000	Tune-up limit (dBm)		
Frequency (MHz)				2516.01	2592.99	2670	MPR (dB)		
40	QPSK	1	1	20.91	20.96	21.02	22.5		
Channel				502200	518598	534998	Tune-up limit (dBm)		
Frequency (MHz)				2511	2592.99	2674.98	MPR (dB)		
30	QPSK	1	1	20.92	20.95	21.02	22.5		
Channel				501204	518598	535998	Tune-up limit (dBm)		
Frequency (MHz)				2506.02	2592.99	2679.99	MPR (dB)		
20	QPSK	1	1	20.98	20.99	20.98	22.5		
Channel				500700	518598	536498	Tune-up limit (dBm)		
Frequency (MHz)				2501.5	2592.99	2682.48	MPR (dB)		
15	QPSK	1	1	21.00	21.09	21.03	22.5		
Channel				500202	518598	537000	Tune-up limit (dBm)		
Frequency (MHz)				2501.01	2592.99	2685	MPR (dB)		
10	QPSK	1	1	21.00	21.00	20.96	22.5		

Part270 n77 Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	24.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	23.55	23.61	23.05			
100	PI/2 BPSK	1	137	23.44	23.56	23.03	24.0	0.0	
100	PI/2 BPSK	1	271	23.22	23.41	23.05			
100	PI/2 BPSK	135	0	23.42	23.35	23.11			23.5
100	PI/2 BPSK	135	69	23.38	23.55	23.01	24.0	0.0	
100	PI/2 BPSK	135	138	23.26	23.35	22.91	23.5	0.5	
100	PI/2 BPSK	270	0	23.49	23.43	22.98	24.0	0.0	
100	QPSK	1	1	23.54	23.65	23.08			
100	QPSK	1	137	23.49	23.53	23.10			
100	QPSK	1	271	23.35	23.43	23.03	23.0	1.0	
100	QPSK	135	0	22.66	22.65	22.95			
100	QPSK	135	69	23.51	23.58	23.01			24.0
100	QPSK	135	138	22.44	22.36	22.29	23.0	1.0	
100	QPSK	270	0	22.43	22.45	22.38	23.0	1.0	
100	16QAM	1	1	22.54	22.59	22.68			
100	64QAM	1	1	21.45	21.34	20.98			21.5
100	256QAM	1	1	19.01	19.03	19.05	19.5	4.5	
Channel				649968	650000	650334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.47	22.59	22.01	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3740.01	3740	3940.02			
80	QPSK	1	1	22.50	22.60	22.03	24.0	0.0	
Channel				649000	650000	650300	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.47	22.51	22.06	24.0	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.38	22.54	22.01	24.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.44	22.57	22.05	24.0	0.0	
Channel				647900	650000	650300	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.47	22.63	22.05	24.0	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3713.02	3840	3963.01			
30	QPSK	1	1	22.51	22.53	22.01	24.0	0.0	
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	22.49	22.60	22.05	24.0	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.50	22.55	22.05	24.0	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.47	22.58	22.04	24.0	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.38	22.64	22.03	24.0	0.0	

Part270 n78 Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	24.0	0.0	
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		23.56				
100	PI/2 BPSK	1	137		23.51		24.0	0.0	
100	PI/2 BPSK	1	271		23.36				
100	PI/2 BPSK	135	0		23.30				23.5
100	PI/2 BPSK	135	69		23.50		24.0	0.0	
100	PI/2 BPSK	135	138		23.30		23.5	0.5	
100	PI/2 BPSK	270	0		23.38				
100	QPSK	1	1		23.40				
100	QPSK	1	137		23.48		24.0	0.0	
100	QPSK	1	271		23.38				
100	QPSK	135	0		22.60				23.0
100	QPSK	135	69		23.53		24.0	0.0	
100	QPSK	135	138		22.38		23.0	1.0	
100	QPSK	270	0		22.39				
100	16QAM	1	1		22.54		23.0	1.0	
100	64QAM	1	1		21.29		21.5	2.5	
100	256QAM	1	1		18.98		19.5	4.5	
Channel				649968	650000	650334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.66	22.67	22.82	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.63	22.69	22.72	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.68	22.61	22.74	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	22.64	22.68	22.68	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.74	22.68	22.73	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.68	22.74	22.81	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3713.02	3750	3783.01			
30	QPSK	1	1	22.72	22.72	22.62	24.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	22.74	22.62	22.61	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	22.74	22.60	22.59	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	22.71	22.71	22.65	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.67	22.73	22.68	24.0	0.0	



Part270 n77 Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	24.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	23.21	23.30	23.30	24.0	0.0	
100	P12 BPSK	1	137	23.15	23.19	23.13			
100	P12 BPSK	1	271	23.05	23.15	23.00			
100	P12 BPSK	135	0	22.61	22.75	22.65		23.5	
100	P12 BPSK	135	69	23.18	23.23	23.07	24.0	0.0	
100	P12 BPSK	135	138	22.52	22.68	22.58			
100	P12 BPSK	270	0	22.56	22.73	22.62			
100	QPSK	1	1	23.29	23.35	23.19		24.0	
100	QPSK	1	137	23.09	23.25	23.12	24.0	0.0	
100	QPSK	1	271	22.97	23.13	23.06			
100	QPSK	135	0	22.20	22.31	22.21		23.0	
100	QPSK	135	69	23.22	23.25	22.92		24.0	
100	QPSK	135	138	22.03	22.16	22.08	23.0	1.0	
100	QPSK	270	0	22.28	22.31	21.98			
100	16QAM	1	1	22.24	22.38	22.27		23.0	
100	64QAM	1	1	20.68	20.83	20.65		21.5	
100	256QAM	1	1	18.45	18.59	18.56	19.5	4.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	23.13	23.18	23.07	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.22	23.16	22.98	24.0	0.0	
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.25	23.20	22.95	24.0	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.22	23.25	22.97	24.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.23	23.28	23.02	24.0	0.0	
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.20	23.18	22.95	24.0	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3953.01			
30	QPSK	1	1	23.15	23.20	23.02	24.0	0.0	
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	23.12	23.17	23.00	24.0	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.21	23.28	23.00	24.0	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	23.21	23.22	23.05	24.0	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.25	23.21	23.04	24.0	0.0	

Part270 n77 PC2 Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	24.0	0.0	
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	25.27	25.23	24.56	26.5	0.0	
100	P12 BPSK	1	137	25.16	25.15	24.54			
100	P12 BPSK	1	271	25.17	25.27	24.67			
100	P12 BPSK	135	0	24.81	24.84	24.30		26.0	
100	P12 BPSK	135	69	25.25	25.21	24.57	26.5	0.0	
100	P12 BPSK	135	138	24.63	24.63	24.06			
100	P12 BPSK	270	0	24.72	24.77	24.24			
100	QPSK	1	1	25.26	25.35	24.62		26.5	
100	QPSK	1	137	25.33	25.26	24.53	26.5	0.0	
100	QPSK	1	271	25.09	25.13	24.51			
100	QPSK	135	0	24.41	24.31	23.71		25.5	
100	QPSK	135	69	25.22	25.30	24.62		26.5	
100	QPSK	135	138	24.17	24.11	24.25	25.5	1.0	
100	QPSK	270	0	24.23	24.32	23.75			
100	16QAM	1	1	24.44	24.48	23.93		25.5	
100	64QAM	1	1	22.81	22.74	22.17		24.0	
100	256QAM	1	1	20.53	20.56	20.11	22.0	4.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	25.20	25.12	24.52	26.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	25.33	25.12	24.50	26.5	0.0	
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	25.17	25.13	24.53	26.5	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	25.15	25.08	24.52	26.5	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	25.18	25.13	24.57	26.5	0.0	
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	25.33	25.09	24.52	26.5	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3953.01			
30	QPSK	1	1	25.27	25.20	24.52	26.5	0.0	
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	25.21	25.14	24.59	26.5	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	25.11	25.16	24.56	26.5	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	25.14	25.19	24.54	26.5	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	25.27	25.19	24.59	26.5	0.0	

Part270 n78 Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000	24.0	0.0	
Frequency (MHz)				3750	3750	3750			
100	P12 BPSK	1	1		23.39		24.0	0.0	
100	P12 BPSK	1	137		23.34				
100	P12 BPSK	1	271		23.26				
100	P12 BPSK	135	0		22.94	23.5		0.5	
100	P12 BPSK	135	69		23.23	24.0	0.0		
100	P12 BPSK	135	138		22.80	23.5	0.5		
100	P12 BPSK	270	0		22.82		24.0	0.0	
100	QPSK	1	1		23.43				
100	QPSK	1	137		23.40				
100	QPSK	1	271		23.24	23.0			
100	QPSK	135	0		22.41	23.0	1.0		
100	QPSK	135	69		23.38	24.0	0.0		
100	QPSK	135	138		22.28	23.0	1.0		
100	QPSK	270	0		22.40	23.0	1.0		
100	64QAM	1	1		22.24	23.0	1.0		
100	64QAM	1	1		21.24	21.5	2.5		
100	256QAM	1	1		18.89	19.5	4.5		
Channel				646668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	23.31	23.29	23.25	24.0	0.0	
Channel				646334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	23.28	23.26	23.41	24.0	0.0	
Channel				645000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	23.33	23.37	23.34	24.0	0.0	
Channel				646668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3750	3770.01			
60	QPSK	1	1	23.32	23.32	23.39	24.0	0.0	
Channel				646334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	23.39	23.38	23.36	24.0	0.0	
Channel				646000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730	3750	3780			
40	QPSK	1	1	23.20	23.35	23.29	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.02	3750	3765.01			
30	QPSK	1	1	23.38	23.32	23.40	24.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	23.33	23.35	23.38	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.51	3750	3780.02			
20	QPSK	1	1	23.39	23.28	23.39	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	23.27	23.28	23.32	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	23.35	23.40	23.34	24.0	0.0	

Part270 n78 PC2 Ant8								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dbm)	MPR (db)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		25.81			
100	PI2 BPSK	1	137		25.73		26.5	0.0
100	PI2 BPSK	1	271		25.23			
100	PI2 BPSK	135	0		25.38		26.0	0.5
100	PI2 BPSK	135	69		25.84		26.5	0.0
100	PI2 BPSK	135	138		25.37		26.0	0.5
100	PI2 BPSK	270	0		25.41			
100	QPSK	1	1		25.26			
100	QPSK	1	137		25.59		26.5	0.0
100	QPSK	1	271		25.21			
100	QPSK	135	0		25.31		25.5	1.0
100	QPSK	135	69		25.88		26.5	0.0
100	QPSK	135	138		25.15		25.5	1.0
100	QPSK	270	0		25.32			
100	16QAM	1	1		24.97		25.5	1.0
100	64QAM	1	1		23.03		24.0	2.5
100	256QAM	1	1		21.52		22.0	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dbm)	MPR (db)
90	QPSK	1	1	25.84	25.85	25.93	26.5	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dbm)	MPR (db)
80	QPSK	1	1	25.91	25.79	25.80	26.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765	Tune-up limit (dbm)	MPR (db)
70	QPSK	1	1	25.91	25.82	25.84	26.5	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit (dbm)	MPR (db)
60	QPSK	1	1	25.90	25.88	25.87	26.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dbm)	MPR (db)
50	QPSK	1	1	25.80	25.91	25.88	26.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780	Tune-up limit (dbm)	MPR (db)
40	QPSK	1	1	25.93	25.82	25.91	26.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit (dbm)	MPR (db)
30	QPSK	1	1	25.92	25.91	25.81	26.5	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5	Tune-up limit (dbm)	MPR (db)
25	QPSK	1	1	25.81	25.82	25.85	26.5	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dbm)	MPR (db)
20	QPSK	1	1	25.86	25.92	25.89	26.5	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51	Tune-up limit (dbm)	MPR (db)
15	QPSK	1	1	25.79	25.93	25.87	26.5	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795	Tune-up limit (dbm)	MPR (db)
10	QPSK	1	1	25.93	25.88	25.81	26.5	0.0



Part270 n77 Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	20.49	20.50	20.51	21.5	0.0	
100	P12 BPSK	1	137	20.43	20.51	20.49			
100	P12 BPSK	1	271	20.42	20.42	20.42			
100	P12 BPSK	135	0	20.35	20.48	20.48	21.5	0.0	
100	P12 BPSK	135	69	20.44	20.41	20.46	21.5	0.0	
100	P12 BPSK	135	138	20.38	20.40	20.43	21.5	0.0	
100	P12 BPSK	270	0	20.46	20.43	20.45	21.5	0.0	
100	QPSK	1	1	20.55	20.62	20.62			
100	QPSK	1	137	20.42	20.46	20.41			
100	QPSK	1	271	20.37	20.48	20.47	21.5	0.0	
100	QPSK	135	0	20.39	20.39	20.37			
100	QPSK	135	69	20.54	20.61	20.55			
100	QPSK	135	138	20.37	20.46	20.41	21.5	0.0	
100	QPSK	270	0	20.50	20.60	20.53	21.5	0.0	
100	16QAM	1	1	20.39	20.41	20.43			
100	64QAM	1	1	20.32	20.35	20.31			
100	256QAM	1	1	18.42	18.55	18.51	19.5	2.0	
Channel				649668	650000	662334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	20.44	20.51	20.52	21.5	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	20.37	20.39	20.41	21.5	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.39	20.48	20.44	21.5	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	20.51	20.43	20.48	21.5	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	20.36	20.37	20.47	21.5	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	20.42	20.36	20.43	21.5	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3713.02	3840	3933.01	(dBm)	(dB)	
30	QPSK	1	1	20.43	20.36	20.39	21.5	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3712.5	3840	3967.5	(dBm)	(dB)	
25	QPSK	1	1	20.46	20.40	20.44	21.5	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	20.37	20.48	20.44	21.5	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	20.34	20.36	20.42	21.5	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	20.54	20.57	20.45	21.5	0.0	

Part270 n77 PC2 Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	24.01	23.93	23.87	24.5	0.0	
100	P12 BPSK	1	137	23.79	23.92	23.83			
100	P12 BPSK	1	271	23.86	23.88	23.79			
100	P12 BPSK	135	0	23.92	23.98	23.91	24.5	0.0	
100	P12 BPSK	135	69	23.80	23.90	23.84	24.5	0.0	
100	P12 BPSK	135	138	23.85	23.84	23.87	24.5	0.0	
100	P12 BPSK	270	0	23.74	23.86	23.85	24.5	0.0	
100	QPSK	1	1	23.99	24.10	23.91			
100	QPSK	1	137	23.79	23.93	23.85			
100	QPSK	1	271	23.86	23.89	23.85	24.5	0.0	
100	QPSK	135	0	23.94	23.95	23.88			
100	QPSK	135	69	23.80	23.90	23.83			
100	QPSK	135	138	23.78	23.88	23.86	24.5	0.0	
100	QPSK	270	0	23.87	23.93	23.86	24.5	0.0	
100	16QAM	1	1	23.72	23.86	23.81			
100	64QAM	1	1	23.87	23.87	23.85			
100	256QAM	1	1	21.77	21.94	21.84	22.5	2.0	
Channel				649668	650000	662334	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dbm)	(db)	
90	QPSK	1	1	23.71	23.88	23.82	24.5	0.0	
Channel				649334	650000	662668	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dbm)	(db)	
80	QPSK	1	1	23.80	23.81	23.70	24.5	0.0	
Channel				649000	650000	663000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3735	3840	3945	(dbm)	(db)	
70	QPSK	1	1	23.72	23.92	23.84	24.5	0.0	
Channel				648668	650000	663334	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dbm)	(db)	
60	QPSK	1	1	23.70	23.85	23.77	24.5	0.0	
Channel				648334	650000	663668	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dbm)	(db)	
50	QPSK	1	1	23.86	23.90	23.87	24.5	0.0	
Channel				648000	650000	664000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3720	3840	3960	(dbm)	(db)	
40	QPSK	1	1	23.83	23.76	23.85	24.5	0.0	
Channel				647668	650000	664334	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3713.02	3840	3933.01	(dbm)	(db)	
30	QPSK	1	1	23.85	23.80	23.70	24.5	0.0	
Channel				647500	650000	664500	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3712.5	3840	3967.5	(dbm)	(db)	
25	QPSK	1	1	23.76	23.87	23.81	24.5	0.0	
Channel				647334	650000	664668	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dbm)	(db)	
20	QPSK	1	1	23.87	23.85	23.79	24.5	0.0	
Channel				647168	650000	664834	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dbm)	(db)	
15	QPSK	1	1	23.71	23.92	23.80	24.5	0.0	
Channel				647000	650000	665000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3705	3840	3975	(dbm)	(db)	
10	QPSK	1	1	23.72	23.87	23.86	24.5	0.0	

Part270 n78 Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	P12 BPSK	1	1		20.48		21.5	0.0	
100	P12 BPSK	1	137		20.43				
100	P12 BPSK	1	271		20.39				
100	P12 BPSK	135	0		20.48		21.5	0.0	
100	P12 BPSK	135	69		20.33		21.5	0.0	
100	P12 BPSK	135	138		20.38		21.5	0.0	
100	P12 BPSK	270	0		20.45		21.5	0.0	
100	QPSK	1	1		20.62				
100	QPSK	1	137		20.46				
100	QPSK	1	271		20.50		21.5	0.0	
100	QPSK	135	0		20.40				
100	QPSK	135	69		20.61				
100	QPSK	135	138		20.43		21.5	0.0	
100	QPSK	270	0		20.55		21.5	0.0	
100	16QAM	1	1		20.38				
100	64QAM	1	1		20.33				
100	256QAM	1	1		18.50		19.5	2.0	
Channel				648668	650000	660334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	20.45	20.51	20.45	21.5	0.0	
Channel				649334	650000	660968	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	20.39	20.39	20.38	21.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	20.36	20.48	20.37	21.5	0.0	
Channel				648668	650000	661334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	20.50	20.43	20.43	21.5	0.0	
Channel				648334	650000	661668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	20.34	20.32	20.49	21.5	0.0	
Channel				648000	650000	662000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	20.44	20.34	20.44	21.5	0.0	
Channel				647668	650000	662334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	20.47	20.41	20.43	21.5	0.0	
Channel				647500	650000	662500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3712.5	3750	3787.5	(dBm)	(dB)	
25	QPSK	1	1	20.39	20.28	20.39	21.5	0.0	
Channel				647334	650000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	20.31	20.45	20.38	21.5	0.0	
Channel				647168	650000	662834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1	20.32	20.29	20.41	21.5	0.0	
Channel				647000	650000	663000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	20.48	20.55	20.39	21.5	0.0	

Part270 n78 PC2 Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq 650000	Power Middle Ch / Freq 650000	Power High Ch / Freq 650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		23.89			
100	PI/2 BPSK	1	137		23.89		24.5	0.0
100	PI/2 BPSK	1	271		23.86			
100	PI/2 BPSK	135	0		23.91		24.5	0.0
100	PI/2 BPSK	135	69		23.85		24.5	0.0
100	PI/2 BPSK	135	138		23.76		24.5	0.0
100	PI/2 BPSK	270	0		23.79			
100	QPSK	1	1		24.02			
100	QPSK	1	137		23.91		24.5	0.0
100	QPSK	1	271		23.84			
100	QPSK	135	0		23.96		24.5	0.0
100	QPSK	135	69		23.90		24.5	0.0
100	QPSK	135	138		23.86			
100	QPSK	270	0		23.93		24.5	0.0
100	16QAM	1	1		23.81		24.5	0.0
100	64QAM	1	1		23.81		24.5	0.0
100	256QAM	1	1		21.81		22.5	2.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	23.72	23.85	23.75	24.5	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	23.81	23.83	23.77	24.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	23.70	23.86	23.86	24.5	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	23.72	23.87	23.70	24.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	23.87	23.87	23.84	24.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	23.78	23.77	23.85	24.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	23.84	23.74	23.79	24.5	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	23.70	23.84	23.78	24.5	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	23.84	23.81	23.74	24.5	0.0
Channel				647188	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	23.66	23.90	23.79	24.5	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	23.70	23.88	23.83	24.5	0.0

Reduced Power Mode for DSI6

n5 DSI6 Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PK2 BPSK	1	1	23.04	23.13	22.99	24.0	0.0
20	PK2 BPSK	1	53	22.90	23.03	22.93		
20	PK2 BPSK	1	104	23.00	23.10	22.97		
20	PK2 BPSK	50	0	22.56	22.64	22.55	23.5	0.5
20	PK2 BPSK	50	28	22.82	22.98	22.85	24.0	0.0
20	PK2 BPSK	50	56	22.57	22.70	22.53	23.5	0.5
20	PK2 BPSK	100	0	22.61	22.73	22.58		
20	QPSK	1	1	23.16	23.19	23.02		
20	QPSK	1	53	22.88	23.06	22.91	24.0	0.0
20	QPSK	1	104	23.09	23.12	23.04	23.0	1.0
20	QPSK	50	0	22.15	22.17	22.13		
20	QPSK	50	28	23.11	23.14	23.08		
20	QPSK	50	56	22.12	22.22	22.06	23.0	1.0
20	QPSK	100	0	22.28	22.31	22.24		
20	16QAM	1	1	22.02	22.05	21.98	23.0	1.0
20	64QAM	1	1	20.87	21.02	20.95	21.5	2.5
20	256QAM	1	1	18.39	18.48	18.37	19.5	4.5
Channel				165300	167300	169300	24.0	0.0
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.03	23.10	22.97	24.0	0.0
Channel				165800	167300	168800	24.0	0.0
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.05	23.02	22.95	24.0	0.0
Channel				165300	167300	169300	24.0	0.0
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.09	23.04	22.85	24.0	0.0

n41 DS16 Ant0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				500200	518598	530000	20.5	0.0
Frequency (MHz)				2548.01	2592.99	2640		
100	PV2 BPSK	1	1	19.17	19.38	19.27	20.5	0.0
100	PV2 BPSK	1	137	19.40	19.41	19.38		
100	PV2 BPSK	1	271	19.23	19.32	19.39	20.5	0.0
100	PV2 BPSK	135	0	19.39	19.44	19.26		
100	PV2 BPSK	135	69	19.17	19.34	19.16	20.5	0.0
100	PV2 BPSK	135	138	19.26	19.38	19.14		
100	PV2 BPSK	270	0	19.34	19.40	19.33	20.5	0.0
100	QPSK	1	1	19.36	19.47	19.46		
100	QPSK	1	137	19.42	19.38	19.30	20.5	0.0
100	QPSK	1	271	19.27	19.42	19.33		
100	QPSK	135	0	19.30	19.37	19.27	20.5	0.0
100	QPSK	135	69	19.22	19.39	19.27		
100	QPSK	135	138	19.19	19.32	19.20	20.5	0.0
100	QPSK	270	0	19.28	19.36	19.12		
100	16QAM	1	1	19.37	19.30	19.37	20.5	0.0
100	64QAM	1	1	19.29	19.37	19.28		
100	256QAM	1	1	18.36	18.54	18.37	19.5	1.0
Channel				500200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.40	19.31	19.11	20.5	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2643.99	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.17	19.28	19.11		
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.17	19.31	19.06	20.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.99	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.36	19.32	19.11		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	19.21	19.27	19.13	20.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.08	19.23	19.31		
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2714.98		
30	QPSK	1	1	19.28	19.32	19.25	20.5	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.34	19.23	19.15		
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.5	2592.99	2682.48		
15	QPSK	1	1	19.29	19.21	19.28	20.5	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.35	19.20	19.12		



n2 DSI6 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000	21.5	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	20.31	20.36	20.16			
20	PI2 BPSK	1	53	20.29	20.24	20.15	21.5	0.0	
20	PI2 BPSK	1	164	20.03	20.13	20.05			
20	PI2 BPSK	50	0	20.24	20.26	20.34			
20	PI2 BPSK	50	28	20.14	20.25	20.12	21.5	0.0	
20	PI2 BPSK	50	56	20.03	20.18	19.98			
20	PI2 BPSK	100	0	20.27	20.35	20.32			
20	QPSK	1	1	20.17	20.40	20.21	21.5	0.0	
20	QPSK	1	53	20.02	20.12	19.94			
20	QPSK	1	104	20.38	20.32	20.24			
20	QPSK	50	0	20.26	20.39	20.19	21.5	0.0	
20	QPSK	50	28	20.32	20.35	20.21			
20	QPSK	50	56	20.22	20.24	20.16			
20	QPSK	100	0	20.15	20.30	20.28	21.5	0.0	
20	16QAM	1	1	20.14	20.09	20.01			
20	64QAM	1	1	20.06	20.04	20.16		21.5	
20	256QAM	1	1	18.78	18.95	18.76	19.5	2.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5	21.5	0.0	
15	QPSK	1	1	20.17	20.11	20.10			
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1900	1905	21.5	0.0	
10	QPSK	1	1	20.28	20.29	20.39			
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5	21.5	0.0	
5	QPSK	1	1	20.22	20.39	20.16			

n7 DSI6 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000	20.8	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	19.24	19.22	19.23			
40	PI2 BPSK	1	108	19.17	19.32	19.24	20.8	0.0	
40	PI2 BPSK	1	214	19.08	19.07	19.08			
40	PI2 BPSK	108	0	19.16	19.36	19.22			
40	PI2 BPSK	108	54	19.20	19.14	19.19	20.8	0.0	
40	PI2 BPSK	108	108	19.10	19.02	18.93			
40	PI2 BPSK	216	0	19.19	19.35	19.11			
40	QPSK	1	1	19.16	19.44	19.25	20.8	0.0	
40	QPSK	1	108	19.09	19.02	18.97			
40	QPSK	1	214	19.27	19.38	19.14			
40	QPSK	108	0	19.17	19.15	19.09	20.8	0.0	
40	QPSK	108	54	19.26	19.39	19.35			
40	QPSK	108	108	19.20	19.21	19.11			
40	QPSK	216	0	19.16	19.30	19.11	20.8	0.0	
40	16QAM	1	1	19.25	19.28	19.10			
40	64QAM	1	1	19.21	19.24	19.20		20.8	
40	256QAM	1	1	18.73	18.90	18.72	19.5	1.3	
Channel				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	20.8	0.0	
30	QPSK	1	1	19.02	19.05	19.04			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	20.8	0.0	
25	QPSK	1	1	19.10	19.98	18.85			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	20.8	0.0	
20	PI2 BPSK	1	1	19.13	19.25	19.25			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	20.8	0.0	
15	QPSK	1	1	19.06	19.38	19.13			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	20.8	0.0	
10	QPSK	1	1	19.13	19.12	19.22			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	20.8	0.0	
5	QPSK	1	1	19.28	19.11	19.12			

n66 DSI6 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	21.8	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	20.90	21.03	20.83			
40	PI2 BPSK	1	108	20.77	21.00	20.89	21.8	0.0	
40	PI2 BPSK	1	214	20.87	20.81	20.74			
40	PI2 BPSK	108	0	20.83	20.97	20.78			
40	PI2 BPSK	108	54	20.90	20.95	20.72	21.8	0.0	
40	PI2 BPSK	108	108	20.84	20.99	20.86			
40	PI2 BPSK	216	0	20.76	20.93	20.75			
40	QPSK	1	1	21.02	21.06	20.99	21.8	0.0	
40	QPSK	1	108	20.93	20.91	20.73			
40	QPSK	1	214	20.86	20.95	20.89			
40	QPSK	108	0	20.80	20.86	20.76	21.8	0.0	
40	QPSK	108	54	20.77	20.91	20.74			
40	QPSK	108	108	20.87	20.89	20.75			
40	QPSK	216	0	20.81	20.92	20.84	21.8	0.0	
40	16QAM	1	1	20.88	20.91	20.75			
40	64QAM	1	1	21.01	21.03	20.85	21.5	0.3	
40	256QAM	1	1	18.72	18.93	18.75	19.5	2.3	
Channel				345500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	21.8	0.0	
30	QPSK	1	1	20.75	20.73	20.61			
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5	21.8	0.0	
25	QPSK	1	1	20.70	20.72	20.70			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	21.8	0.0	
20	QPSK	1	1	20.80	20.81	20.66			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	21.8	0.0	
15	QPSK	1	1	20.70	20.82	20.74			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	21.8	0.0	
10	QPSK	1	1	20.74	20.78	20.74			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	21.8	0.0	
5	QPSK	1	1	20.82	20.84	20.64			

n38 DSI6 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	20.6	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.37	19.37	19.24	20.6	0.0	
40	PI/2 BPSK	1	53	19.25	19.22	18.99			
40	PI/2 BPSK	1	104	19.13	19.25	19.03	20.6	0.0	
40	PI/2 BPSK	50	0	19.32	19.25	19.26			
40	PI/2 BPSK	50	28	19.01	19.16	19.08	20.6	0.0	
40	PI/2 BPSK	50	56	19.07	19.28	19.33			
40	PI/2 BPSK	100	0	19.12	19.34	19.26	20.6	0.0	
40	QPSK	1	1	19.26	19.35	19.25			
40	QPSK	1	53	19.07	19.22	19.05	20.6	0.0	
40	QPSK	1	104	19.21	19.16	19.32			
40	QPSK	50	0	19.33	19.18	19.24	20.6	0.0	
40	QPSK	50	28	19.17	19.41	19.01			
40	QPSK	80	56	19.11	19.16	19.26	20.6	0.0	
40	QPSK	100	0	19.16	19.22	19.13			
40	16QAM	1	1	19.82	19.19	19.97	20.6	0.0	
40	64QAM	1	1	19.00	19.18	19.16			
40	256QAM	1	1	18.09	18.22	18.20	19.5	1.1	
Channel				517002	519000	520998	20.6	0.0	
Frequency (MHz)				2595.01	2595	2604.99			
30	QPSK	1	1	19.15	19.21	19.00	20.6	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2592.52	2595	2607.48	20.6	0.0	
25	QPSK	1	1	19.17	19.19	19.26		0.0	
Channel				516000	519000	520000	20.6	0.0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.03	19.17	19.04	20.6	0.0	
Channel				515502	519000	522498		0.0	
Frequency (MHz)				2577.51	2595	2612.49	20.6	0.0	
15	QPSK	1	1	19.23	19.16	19.25		0.0	
Channel				515004	519000	522998	20.6	0.0	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.24	19.20	19.32	20.6	0.0	

n41 DSI6 Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	520000	20.6	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.38	19.38	19.39	20.6	0.0	
100	PI/2 BPSK	1	137	19.24	19.24	18.98			
100	PI/2 BPSK	1	271	19.24	19.35	19.21	20.6	0.0	
100	PI/2 BPSK	135	0	19.30	19.42	19.29			
100	PI/2 BPSK	135	69	19.15	19.34	19.14	20.6	0.0	
100	PI/2 BPSK	135	138	19.24	19.33	19.33			
100	PI/2 BPSK	270	0	19.18	19.38	19.30	20.6	0.0	
100	QPSK	1	1	19.34	19.01	19.40			
100	QPSK	1	137	19.20	19.30	19.11	20.6	0.0	
100	QPSK	1	271	19.23	19.33	19.34			
100	QPSK	135	0	19.35	19.26	19.31	20.6	0.0	
100	QPSK	135	69	19.18	19.44	19.07			
100	QPSK	135	138	19.20	19.15	19.33	20.6	0.0	
100	QPSK	270	0	19.31	19.38	19.30			
100	16QAM	1	1	19.02	19.22	18.95	20.6	0.0	
100	64QAM	1	1	19.16	19.34	19.30			
100	256QAM	1	1	18.19	18.35	18.22	19.5	1.1	
Channel				506000	518998	520998	20.6	0.0	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.23	19.32	19.23	20.6	0.0	
Channel				507204	518998	520998		MPR	
Frequency (MHz)				2538.02	2592.99	2649.99	20.6	0.0	
80	QPSK	1	1	19.09	19.22	19.06		0.0	
Channel				506002	518998	521000	20.6	0.0	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.24	19.20	19.22	20.6	0.0	
Channel				505200	518998	521998		MPR	
Frequency (MHz)				2524	2592.99	2659.98	20.6	0.0	
60	QPSK	1	1	19.07	19.15	19.30		0.0	
Channel				504204	518998	522998	20.6	0.0	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.06	19.24	18.95	20.6	0.0	
Channel				503202	518998	523000		MPR	
Frequency (MHz)				2516.01	2592.99	2670	20.6	0.0	
40	QPSK	1	1	19.21	19.15	19.22		0.0	
Channel				502200	518998	524998	20.6	0.0	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	19.13	19.23	19.27	20.6	0.0	
Channel				501204	518998	525998		MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	20.6	0.0	
20	QPSK	1	1	19.12	19.27	19.30		0.0	
Channel				500700	518998	526498	20.6	0.0	
Frequency (MHz)				2499.15	2592.99	2684.48			
15	QPSK	1	1	19.22	19.28	18.96	20.6	0.0	
Channel				500202	518998	527000		MPR	
Frequency (MHz)				2501.01	2592.99	2685	20.6	0.0	
10	QPSK	1	1	19.27	19.25	19.26		0.0	

n7 DSI6 Ant2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50000	50700	51000		
Frequency (MHz)				2620	2635	2650		
40	PV2 BPSK	1	1	21.36	21.37	21.23	22.4	0.0
40	PV2 BPSK	1	108	21.25	21.39	21.18		
40	PV2 BPSK	1	214	21.33	21.22	21.23		
40	PV2 BPSK	108	0	21.24	21.27	21.20	22.4	0.0
40	PV2 BPSK	108	54	21.30	21.38	21.19	22.4	0.0
40	PV2 BPSK	108	108	21.26	21.31	21.19	22.4	0.0
40	PV2 BPSK	216	0	21.32	21.32	21.21	22.4	0.0
40	QPSK	1	1	21.36	21.43	21.26		
40	QPSK	1	108	21.22	21.30	21.24		
40	QPSK	1	214	21.30	21.29	21.24	22.4	0.0
40	QPSK	108	0	21.34	21.16	21.20		
40	QPSK	108	54	21.33	21.40	21.35		
40	QPSK	108	108	21.26	21.26	21.26	22.4	0.0
40	QPSK	216	0	21.19	21.30	21.10	22.4	0.0
40	16QAM	1	1	21.23	21.14	21.24	22.4	0.0
40	64QAM	1	1	20.21	20.41	20.21	21.5	0.9
40	256QAM	1	1	18.44	18.38	18.21	19.5	2.9
Channel				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2615	2635	2655		
30	QPSK	1	1	21.19	21.20	21.11	22.4	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2635	2657.5		
25	QPSK	1	1	21.23	21.21	21.10	22.4	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2610	2635	2660		
20	PV2 BPSK	1	1	21.12	21.26	21.24	22.4	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2607.5	2635	2662.5		
15	QPSK	1	1	21.16	21.30	21.12	22.4	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2605	2635	2665		
10	QPSK	1	1	21.17	21.21	21.09	22.4	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2602.5	2635	2667.5		
5	QPSK	1	1	21.23	21.35	21.18	22.4	0.0

n38 DSI6 Ant2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				516004	519000	519996	22.1	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	20.73	20.83	20.74	22.1	0.0
40	PI/2 BPSK	1	53	20.53	20.88	20.79		
40	PI/2 BPSK	1	104	20.43	20.74	20.59	22.1	0.0
40	PI/2 BPSK	50	0	20.53	20.51	20.51		
40	PI/2 BPSK	50	28	20.74	20.76	20.79	22.1	0.0
40	PI/2 BPSK	50	56	20.67	20.64	20.75		
40	PI/2 BPSK	100	0	20.51	20.70	20.53	22.1	0.0
40	QPSK	1	1	20.81	20.96	20.95		
40	QPSK	1	53	20.88	20.88	20.95	22.1	0.0
40	QPSK	1	104	20.71	20.91	20.63		
40	QPSK	50	0	20.77	20.73	20.78	22.1	0.0
40	QPSK	50	28	20.75	20.88	20.88		
40	QPSK	80	56	20.65	20.67	20.81	22.1	0.0
40	QPSK	100	0	20.59	20.72	20.50		
40	16QAM	1	1	20.81	20.50	20.67	22.1	0.0
40	64QAM	1	1	20.18	20.31	20.23		
40	256QAM	1	1	18.15	18.22	18.15	19.5	2.6
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	20.63	20.75	20.92	22.1	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	20.67	20.79	20.58	22.1	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	20.68	20.79	20.88	22.1	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	20.65	20.82	20.56	22.1	0.0
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	20.64	20.82	20.79	22.1	0.0

n41 DSI6 Ant2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				506002	518998	520000	22.1	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.87	20.94	20.82	22.1	0.0
100	PI/2 BPSK	1	137	20.62	20.85	20.88		
100	PI/2 BPSK	1	271	20.57	20.75	20.71	22.1	0.0
100	PI/2 BPSK	135	0	20.83	20.05	20.87		
100	PI/2 BPSK	135	69	20.88	20.92	20.96	22.1	0.0
100	PI/2 BPSK	135	138	20.76	20.68	20.80		
100	PI/2 BPSK	270	0	20.62	20.74	20.64	22.1	0.0
100	QPSK	1	1	20.87	21.04	20.99		
100	QPSK	1	137	20.79	20.89	20.85	22.1	0.0
100	QPSK	1	271	20.73	20.89	20.74		
100	QPSK	135	0	20.80	20.82	20.79	22.1	0.0
100	QPSK	135	69	20.91	20.97	20.85		
100	QPSK	135	138	20.70	20.74	20.87	22.1	0.0
100	QPSK	270	0	20.64	20.84	20.87		
100	16QAM	1	1	20.83	20.68	20.72	22.1	0.0
100	64QAM	1	1	20.25	20.32	20.25		
100	256QAM	1	1	18.28	18.33	18.26	19.5	2.6
Channel				506000	518998	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.58	20.77	20.94	22.1	0.0
Channel				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	20.57	20.69	20.62	22.1	0.0
Channel				506002	518998	521000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.72	20.71	20.81	22.1	0.0
Channel				505200	518998	521998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.98		
60	QPSK	1	1	20.67	20.71	20.59	22.1	0.0
Channel				504204	518998	522998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	20.55	20.80	20.77	22.1	0.0
Channel				503002	518998	523000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.63	20.82	20.88	22.1	0.0
Channel				502000	518998	524998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.99		
30	QPSK	1	1	20.53	20.67	20.64	22.1	0.0
Channel				501204	518998	525998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.73	20.71	20.76	22.1	0.0
Channel				500700	518998	526498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2493.15	2592.99	2684.48		
15	QPSK	1	1	20.64	20.68	20.53	22.1	0.0
Channel				500202	518998	527000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	20.46	20.72	20.76	22.1	0.0



Part270 n77 Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	22.75	22.80	22.68	24.0	0.0	
100	P12 BPSK	1	137	22.64	22.75	22.68			
100	P12 BPSK	1	271	22.67	22.71	22.59			
100	P12 BPSK	135	0	22.16	22.30	22.26			
100	P12 BPSK	135	69	22.61	22.77	22.70	24.0	0.0	
100	P12 BPSK	135	138	22.24	22.32	22.29	23.5	0.5	
100	P12 BPSK	270	0	22.26	22.37	22.35	24.0	0.0	
100	QPSK	1	1	22.79	22.81	22.64			
100	QPSK	1	137	22.66	22.79	22.69			
100	QPSK	1	271	22.67	22.74	22.66			
100	QPSK	135	0	21.67	21.82	21.80	23.0	1.0	
100	QPSK	135	69	22.63	22.78	22.71	24.0	0.0	
100	QPSK	135	138	21.66	21.76	21.66	23.0	1.0	
100	QPSK	270	0	21.76	21.82	21.81	23.0	1.0	
100	16QAM	1	1	21.37	21.48	21.32			
100	64QAM	1	1	20.01	20.16	20.11			
100	256QAM	1	1	18.14	18.18	18.09			
Channel				650000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	22.74	22.74	22.47	24.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.65	22.69	22.59	24.0	0.0	
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.73	22.64	22.61	24.0	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3840	3950.01			
60	QPSK	1	1	22.63	22.65	22.56	24.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.62	22.72	22.50	24.0	0.0	
Channel				647900	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.74	22.77	22.57	24.0	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3933.01			
30	QPSK	1	1	22.75	22.70	22.49	24.0	0.0	
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	22.66	22.67	22.56	24.0	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.73	22.71	22.47	24.0	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.73	22.75	22.60	24.0	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.67	22.78	22.52	24.0	0.0	

Part270 n77 PC2 Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	25.68	25.78	25.74	27.0	0.0	
100	P12 BPSK	1	137	25.65	25.82	25.79			
100	P12 BPSK	1	271	25.64	25.77	25.60			
100	P12 BPSK	1	135	25.22	25.37	25.20	26.5	0.5	
100	P12 BPSK	135	69	25.77	25.85	25.82	27.0	0.0	
100	P12 BPSK	135	138	25.27	25.33	25.18	26.5	0.5	
100	P12 BPSK	270	0	25.29	25.39	25.24	27.0	0.0	
100	QPSK	1	1	25.79	25.89	25.84			
100	QPSK	1	137	25.67	25.82	25.80			
100	QPSK	1	271	25.69	25.78	25.68			
100	QPSK	135	0	24.69	24.81	24.69	26.0	1.0	
100	QPSK	135	69	25.66	25.77	25.72	27.0	0.0	
100	QPSK	135	138	24.64	24.82	24.72	26.0	1.0	
100	QPSK	270	0	24.71	24.90	24.83	26.0	1.0	
100	16QAM	1	1	24.77	24.85	24.79			
100	64QAM	1	1	23.35	23.39	23.28			
100	256QAM	1	1	20.99	21.02	20.88			
Channel				649000	650000	650334	Tune-up limit (dbm)	MPR (db)	
90	QPSK	1	1	25.62	25.82	25.69	27.0	0.0	
Channel				649334	650000	650968	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	25.76	25.72	25.72	27.0	0.0	
Channel				649000	650000	650000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	25.72	25.78	25.70	27.0	0.0	
Channel				648668	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720.02	3840	3950.01			
60	QPSK	1	1	25.68	25.77	25.81	27.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	25.69	25.74	25.75	27.0	0.0	
Channel				648000	650000	650000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	25.65	25.81	25.70	27.0	0.0	
Channel				647668	650000	654334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3713.02	3840	3933.01			
30	QPSK	1	1	25.68	25.71	25.75	27.0	0.0	
Channel				647500	650000	654500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	25.73	25.76	25.79	27.0	0.0	
Channel				647334	650000	654668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	25.76	25.79	25.81	27.0	0.0	
Channel				647168	650000	654834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	25.73	25.85	25.74	27.0	0.0	
Channel				647000	650000	655000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	25.66	25.86	25.80	27.0	0.0	

Part270 n78 Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	P12 BPSK	1	1		22.90		24.0	0.0	
100	P12 BPSK	1	137		22.97				
100	P12 BPSK	1	271		22.97				
100	P12 BPSK	135	0		22.59		23.5	0.5	
100	P12 BPSK	135	69		22.92		24.0	0.0	
100	P12 BPSK	135	138		22.84		23.5	0.5	
100	P12 BPSK	270	0		22.89		24.0	0.0	
100	QPSK	1	1		23.06				
100	QPSK	1	137		23.04				
100	QPSK	1	271		23.00				
100	QPSK	135	0		22.03		23.0	0.0	
100	QPSK	135	69		23.01		24.0	0.0	
100	QPSK	135	138		22.03		23.0	1.0	
100	QPSK	270	0		22.89		24.0	0.0	
100	16QAM	1	1		21.92		23.0	0.0	
100	64QAM	1	1		20.97		21.5	2.5	
100	256QAM	1	1		18.93		19.5	4.5	
Channel				646668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.88	22.75	22.84	24.0	0.0	
Channel				646334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.82	22.84	22.83	24.0	0.0	
Channel				645000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.88	23.01	22.80	24.0	0.0	
Channel				646668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3750	3760.01			
60	QPSK	1	1	22.85	22.87	22.88	24.0	0.0	
Channel				646334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735.01	3750	3775.02			
50	QPSK	1	1	22.76	22.89	22.86	24.0	0.0	
Channel				646000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.84	22.85	22.86	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3765.01			
30	QPSK	1	1	22.85	22.85	22.86	24.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3742.5	3750	3787.5			
25	QPSK	1	1	22.91	23.00	22.92	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.51	3750	3780.02			
20	QPSK	1	1	22.83	22.91	22.83	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3737.52	3750	3792.51			
15	QPSK	1	1	22.86	22.87	22.94	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.87	22.91	22.84	24.0	0.0	

Part270 n78 PC2 Ant3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		25.80			
100	PI/2 BPSK	1	137		25.79		27.0	0.0
100	PI/2 BPSK	1	271		25.83			
100	PI/2 BPSK	135	0		25.42		28.5	0.5
100	PI/2 BPSK	135	69		25.75		27.0	0.0
100	PI/2 BPSK	135	138		25.25		28.5	0.5
100	PI/2 BPSK	270	0		25.28			
100	QPSK	1	1		25.86			
100	QPSK	1	137		25.82		27.0	0.0
100	QPSK	1	271		25.69			
100	QPSK	135	0		24.91		28.0	1.0
100	QPSK	135	69		25.84		27.0	0.0
100	QPSK	135	138		24.71		28.0	1.0
100	QPSK	270	0		24.78			
100	16QAM	1	1		25.07		28.0	1.0
100	64QAM	1	1		23.73		24.5	2.5
100	256QAM	1	1		21.55		22.5	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	25.80	25.85	25.78	27.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	25.80	25.78	25.85	27.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	#VALUE!	3765		
70	QPSK	1	1	25.73	25.75	25.75	27.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	25.80	25.81	25.81	27.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	25.77	25.79	25.85	27.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	25.81	25.84	25.79	27.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	25.75	25.74	25.81	27.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	25.80	25.75	25.74	27.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	25.72	25.78	25.80	27.0	0.0
Channel				647188	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	25.78	25.82	25.82	27.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	25.80	25.66	25.73	27.0	0.0

n41 Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Channel / Freq.	Power Middle Channel / Freq.	Power High Channel / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505200	518598	529998	21.6	0.0	
Frequency (MHz)				2548.01	2592.99	2640			
100	PB2 BPSK	1	1	20.18	20.32	20.17			
100	PB2 BPSK	1	137	20.14	20.40	20.26			
100	PB2 BPSK	1	271	20.04	20.16	20.07	21.6	0.0	
100	PB2 BPSK	135	0	20.15	20.32	20.34			
100	PB2 BPSK	135	69	20.25	20.28	20.33			
100	PB2 BPSK	135	138	20.00	20.19	20.01			
100	PB2 BPSK	270	0	20.11	20.31	20.28	21.6	0.0	
100	QPSK	1	1	20.25	20.42	20.28			
100	QPSK	1	137	20.24	20.36	20.29			
100	QPSK	1	271	20.08	20.16	20.05			
100	QPSK	135	0	20.10	20.31	20.24	21.5	0.1	
100	QPSK	135	69	20.17	20.40	20.27	21.6	0.0	
100	QPSK	135	138	20.08	20.36	20.19	21.5	0.1	
100	QPSK	270	0	20.10	20.16	20.12			
100	64QAM	1	1	20.00	20.04	19.95	21.5	0.1	
100	64QAM	1	1	18.64	18.91	18.70	20.0	1.6	
100	256QAM	1	1	16.60	16.78	16.70	18.0	3.6	
Channel				505200	518598	529998	Tune-up limit (dBm)		
Frequency (MHz)				2541	2592.99	2644.98	MPR (dB)		
90	QPSK	1	1	20.22	20.30	20.21	21.6	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)		
Frequency (MHz)				2536.02	2592.99	2643.99	MPR (dB)		
80	QPSK	1	1	20.18	20.27	20.23	21.6	0.0	
Channel				505202	518598	531000	Tune-up limit (dBm)		
Frequency (MHz)				2531.01	2592.99	2655	MPR (dB)		
70	QPSK	1	1	20.08	20.08	20.19	21.6	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)		
Frequency (MHz)				2526	2592.99	2659.98	MPR (dB)		
60	QPSK	1	1	20.10	20.31	20.13	21.6	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)		
Frequency (MHz)				2521.02	2592.99	2654.98	MPR (dB)		
50	QPSK	1	1	20.19	20.21	20.25	21.6	0.0	
Channel				532202	518598	534000	Tune-up limit (dBm)		
Frequency (MHz)				2516.01	2592.99	2679	MPR (dB)		
40	QPSK	1	1	20.03	20.29	20.07	21.6	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)		
Frequency (MHz)				2511	2592.99	2674.98	MPR (dB)		
30	QPSK	1	1	20.06	20.38	20.10	21.6	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)		
Frequency (MHz)				2506.02	2592.99	2679.99	MPR (dB)		
20	QPSK	1	1	20.03	20.07	20.14	21.6	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)		
Frequency (MHz)				2501.5	2592.99	2682.48	MPR (dB)		
15	QPSK	1	1	20.03	20.19	20.31	21.6	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)		
Frequency (MHz)				2501.01	2592.99	2685	MPR (dB)		
10	QPSK	1	1	20.28	20.18	20.26	21.6	0.0	

Part270 n77 Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	23.55	23.61	23.05	24.0	0.0	
100	PI/2 BPSK	1	137	23.44	23.56	23.03			
100	PI/2 BPSK	1	271	23.22	23.41	23.05			
100	PI/2 BPSK	135	0	23.42	23.35	23.11			
100	PI/2 BPSK	135	69	23.38	23.55	23.01	24.0	0.0	
100	PI/2 BPSK	135	138	23.26	23.35	22.91	23.5	0.5	
100	PI/2 BPSK	270	0	23.49	23.43	22.98	24.0	0.0	
100	QPSK	1	1	23.54	23.85	23.08			
100	QPSK	1	137	23.49	23.53	23.10			
100	QPSK	1	271	23.35	23.43	23.03			
100	QPSK	135	0	22.66	22.65	22.95	23.0	1.0	
100	QPSK	135	69	23.51	23.58	23.01	24.0	0.0	
100	QPSK	135	138	22.57	22.67	22.92	24.0	1.0	
100	QPSK	270	0	22.43	23.45	22.84			
100	16QAM	1	1	22.54	22.59	22.68	23.0	1.0	
100	64QAM	1	1	21.45	21.34	20.98	21.5	2.5	
100	256QAM	1	1	19.01	19.03	19.05	19.5	4.5	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.47	22.59	22.01	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3740.01	3740	3740.02			
80	QPSK	1	1	22.50	22.60	22.03	24.0	0.0	
Channel				649000	650000	650300	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.47	22.51	22.06	24.0	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.38	22.54	22.01	24.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.44	22.57	22.05	24.0	0.0	
Channel				647900	650000	650300	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.47	22.63	22.05	24.0	0.0	
Channel				647668	650000	650334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	22.51	22.53	22.01	24.0	0.0	
Channel				647500	650000	650500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	22.49	22.60	22.05	24.0	0.0	
Channel				647334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.50	22.55	22.05	24.0	0.0	
Channel				647168	650000	650834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.47	22.58	22.04	24.0	0.0	
Channel				647000	650000	650300	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.38	22.64	22.03	24.0	0.0	

Part270 n78 Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		22.74		24.0	0.0	
100	PI/2 BPSK	1	137		22.69				
100	PI/2 BPSK	1	271		22.53				
100	PI/2 BPSK	135	0		22.39				
100	PI/2 BPSK	135	69		22.71		24.0	0.0	
100	PI/2 BPSK	135	138		22.01		23.5	0.5	
100	PI/2 BPSK	270	0		22.40		24.0	0.0	
100	QPSK	1	1		22.77				
100	QPSK	1	137		22.57				
100	QPSK	1	271		22.47				
100	QPSK	135	0		22.31		23.0	1.0	
100	QPSK	135	69		22.74		24.0	0.0	
100	QPSK	135	138		21.85		23.0	1.0	
100	QPSK	270	0		22.52		23.0	1.0	
100	16QAM	1	1		22.19				
100	64QAM	1	1		21.14				
100	256QAM	1	1		19.16				
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.66	22.67	22.82	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.63	22.69	22.72	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.68	22.61	22.74	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	22.64	22.68	22.68	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.74	22.68	22.73	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.68	22.74	22.81	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	22.72	22.72	22.62	24.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	22.74	22.62	22.61	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	22.74	22.60	22.59	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	22.71	22.71	22.65	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.67	22.73	22.68	24.0	0.0	



Part270 n77 Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	20.89	20.80	20.72			
100	P12 BPSK	1	137	20.73	20.82	20.79		0.0	
100	P12 BPSK	1	271	20.89	20.76	20.84			
100	P12 BPSK	135	0	20.76	20.81	20.57	22.5	0.0	
100	P12 BPSK	135	69	20.63	20.71	20.79	22.5	0.0	
100	P12 BPSK	135	138	20.70	20.74	20.59	22.5	0.0	
100	P12 BPSK	270	0	20.72	20.76	20.56			
100	QPSK	1	1	20.74	20.99	20.81			
100	QPSK	1	137	20.93	20.74	20.76	22.5	0.0	
100	QPSK	1	271	20.72	20.70	20.67			
100	QPSK	135	0	20.84	20.69	20.66	22.5	0.0	
100	QPSK	135	69	20.90	20.94	20.83	22.5	0.0	
100	QPSK	135	138	20.76	20.82	20.75	22.5	0.0	
100	QPSK	270	0	20.74	20.85	20.84			
100	16QAM	1	1	20.68	20.75	20.66	22.5	0.0	
100	64QAM	1	1	19.74	20.08	19.87	21.5	1.0	
100	256QAM	1	1	17.88	18.11	17.80	19.5	3.0	
Channel				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	20.84	20.75	20.71	22.5	0.0	
Channel				649334	650000	650968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.67	20.79	20.73	22.5	0.0	
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.73	20.71	20.69	22.5	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.81	20.76	20.73	22.5	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.74	20.88	20.75	22.5	0.0	
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.56	20.70	20.78	22.5	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3953.01			
30	QPSK	1	1	20.73	20.74	20.69	22.5	0.0	
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	20.77	20.71	20.64	22.5	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.66	20.76	20.79	22.5	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.71	20.72	20.67	22.5	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.81	20.75	20.71	22.5	0.0	

Part270 n77 PC2 Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	24.19	24.27	23.60			
100	P12 BPSK	1	137	24.27	24.25	24.26	25.5	0.0	
100	P12 BPSK	1	271	24.27	24.16	24.31			
100	P12 BPSK	135	0	24.16	24.29	23.62	25.5	0.0	
100	P12 BPSK	135	69	24.29	24.28	24.25	25.5	0.0	
100	P12 BPSK	135	138	24.26	24.10	24.24	25.5	0.0	
100	P12 BPSK	270	0	24.22	24.20	24.24			
100	QPSK	1	1	24.26	24.36	23.61			
100	QPSK	1	137	24.32	24.29	23.53	25.5	0.0	
100	QPSK	1	271	24.06	24.09	23.54			
100	QPSK	135	0	24.19	24.25	23.63	25.5	0.0	
100	QPSK	135	69	24.25	24.29	24.28	25.5	0.0	
100	QPSK	135	138	24.24	24.17	24.21	25.5	0.0	
100	QPSK	270	0	24.22	24.26	23.54			
100	16QAM	1	1	24.28	24.17	24.29	25.5	0.0	
100	64QAM	1	1	22.72	22.80	22.67	24.0	1.5	
100	256QAM	1	1	20.76	20.78	20.71	22.0	3.5	
Channel				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	24.14	24.25	24.19	25.5	0.0	
Channel				649334	650000	650968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	24.28	24.26	24.29	25.5	0.0	
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	24.12	24.29	23.99	25.5	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	24.22	24.28	24.24	25.5	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	24.23	24.12	24.24	25.5	0.0	
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	24.31	24.25	24.16	25.5	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3953.01			
30	QPSK	1	1	24.26	24.11	24.25	25.5	0.0	
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	24.23	24.21	24.25	25.5	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	24.22	24.30	24.25	25.5	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	24.30	24.26	24.23	25.5	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	24.21	24.05	24.17	25.5	0.0	

Part270 n78 Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	P12 BPSK	1	1	20.85	20.69	20.73			
100	P12 BPSK	1	137	20.59	20.70	20.80	22.5	0.0	
100	P12 BPSK	1	271	20.79	20.67	20.59			
100	P12 BPSK	135	0	20.84	20.77	20.54	22.5	0.0	
100	P12 BPSK	135	69	20.66	20.62	20.76	22.5	0.0	
100	P12 BPSK	135	138	20.58	20.72	20.55	22.5	0.0	
100	P12 BPSK	270	0	20.74	20.65	20.57			
100	QPSK	1	1	20.74	20.93	20.81			
100	QPSK	1	137	20.92	20.60	20.73	22.5	0.0	
100	QPSK	1	271	20.67	20.59	20.67			
100	QPSK	135	0	20.78	20.72	20.61	22.5	0.0	
100	QPSK	135	69	20.79	20.82	20.81	22.5	0.0	
100	QPSK	135	138	20.60	20.71	20.61	22.5	0.0	
100	QPSK	270	0	20.84	20.77	20.77	22.5	0.0	
100	16QAM	1	1	20.54	20.63	20.55	22.5	0.0	
100	64QAM	1	1	19.75	20.07	19.74	21.5	1.0	
100	256QAM	1	1	17.54	18.09	17.79	19.5	3.0	
Channel				40495	65000	65004			
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	20.83	20.71	20.75	22.5	0.0	
Channel				640334	650000	650686			
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	20.84	20.72	20.70	22.5	0.0	
Channel				650000	650000	651000			
Frequency (MHz)				3735	3750	3765	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	20.73	20.73	20.70	22.5	0.0	
Channel				648668	650000	651334			
Frequency (MHz)				3738.02	3750	3761.01	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	20.78	20.75	20.72	22.5	0.0	
Channel				648334	650000	651068			
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	20.75	20.86	20.69	22.5	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	20.54	20.66	20.75	22.5	0.0	
Channel				741868	650000	652334			
Frequency (MHz)				3765.02	3750	3765.01	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	20.70	20.68	20.67	22.5	0.0	
Channel				740500	650000	652500			
Frequency (MHz)				3712.5	3750	3787.5	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	20.73	20.71	20.57	22.5	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3748.01	3750	3769.02	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	20.66	20.76	20.81	22.5	0.0	
Channel				647168	650000	652834			
Frequency (MHz)				3707.52	3750	3792.51	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	20.72	20.71	20.61	22.5	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	20.81	20.68	20.68	22.5	0.0	

Part270 n78 PC2 Ant8								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dbm)	MPR (db)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		24.24			
100	PI2 BPSK	1	137		24.24		25.5	0.0
100	PI2 BPSK	1	271		24.28			
100	PI2 BPSK	135	0		24.22		25.5	0.0
100	PI2 BPSK	135	69		24.20		25.5	0.0
100	PI2 BPSK	135	138		24.04		25.5	0.0
100	PI2 BPSK	270	0		24.17			
100	QPSK	1	1		24.32			
100	QPSK	1	137		24.30		25.5	0.0
100	QPSK	1	271		24.03			
100	QPSK	135	0		24.25		25.5	0.0
100	QPSK	135	69		24.23		25.5	0.0
100	QPSK	135	138		24.10		25.5	0.0
100	QPSK	270	0		24.21		25.5	0.0
100	16QAM	1	1		24.11		25.5	0.0
100	64QAM	1	1		22.78		24.0	1.5
100	256QAM	1	1		20.74		22.0	3.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dbm)	MPR (db)
90	QPSK	1	1	24.08	24.22	24.17	25.5	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dbm)	MPR (db)
80	QPSK	1	1	24.29	24.20	24.21	25.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765	Tune-up limit (dbm)	MPR (db)
70	QPSK	1	1	24.04	24.31	23.97	25.5	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3760.01	Tune-up limit (dbm)	MPR (db)
60	QPSK	1	1	24.19	24.24	24.22	25.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dbm)	MPR (db)
50	QPSK	1	1	24.22	24.05	24.18	25.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780	Tune-up limit (dbm)	MPR (db)
40	QPSK	1	1	24.23	24.26	24.17	25.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3765.01	Tune-up limit (dbm)	MPR (db)
30	QPSK	1	1	24.21	24.12	24.21	25.5	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5	Tune-up limit (dbm)	MPR (db)
25	QPSK	1	1	24.16	24.14	24.27	25.5	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dbm)	MPR (db)
20	QPSK	1	1	24.21	24.24	24.21	25.5	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51	Tune-up limit (dbm)	MPR (db)
15	QPSK	1	1	24.29	24.24	24.22	25.5	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795	Tune-up limit (dbm)	MPR (db)
10	QPSK	1	1	24.18	23.99	24.09	25.5	0.0



Part270 n77 Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	20.49	20.50	20.51	21.5	0.0	
100	P12 BPSK	1	137	20.43	20.51	20.49			
100	P12 BPSK	1	271	20.42	20.42	20.42			
100	P12 BPSK	135	0	20.35	20.48	20.48	21.5	0.0	
100	P12 BPSK	135	69	20.44	20.41	20.46	21.5	0.0	
100	P12 BPSK	135	138	20.38	20.40	20.43	21.5	0.0	
100	P12 BPSK	270	0	20.46	20.43	20.45	21.5	0.0	
100	QPSK	1	1	20.55	20.62	20.62			
100	QPSK	1	137	20.42	20.46	20.41			
100	QPSK	1	271	20.37	20.48	20.47	21.5	0.0	
100	QPSK	135	0	20.39	20.39	20.37			
100	QPSK	135	69	20.54	20.61	20.55			
100	QPSK	135	138	20.37	20.46	20.41	21.5	0.0	
100	QPSK	270	0	20.50	20.60	20.53	21.5	0.0	
100	16QAM	1	1	20.39	20.41	20.43			
100	64QAM	1	1	20.32	20.35	20.31			
100	256QAM	1	1	18.42	18.55	18.51	19.5	2.0	
Channel				649668	650000	662334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	20.44	20.51	20.52	21.5	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	20.37	20.39	20.41	21.5	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.39	20.48	20.44	21.5	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	20.51	20.43	20.48	21.5	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	20.36	20.37	20.47	21.5	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	20.42	20.36	20.43	21.5	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3713.02	3840	3953.01	(dBm)	(dB)	
30	QPSK	1	1	20.43	20.36	20.39	21.5	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3712.5	3840	3967.5	(dBm)	(dB)	
25	QPSK	1	1	20.46	20.40	20.44	21.5	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	20.37	20.48	20.44	21.5	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	20.34	20.36	20.42	21.5	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	20.54	20.57	20.45	21.5	0.0	

Part270 n77 PC2 Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	24.01	23.93	23.87	24.5	0.0	
100	P12 BPSK	1	137	23.79	23.92	23.83			
100	P12 BPSK	1	271	23.86	23.88	23.79			
100	P12 BPSK	135	0	23.92	23.98	23.91	24.5	0.0	
100	P12 BPSK	135	69	23.80	23.90	23.84	24.5	0.0	
100	P12 BPSK	135	138	23.85	23.84	23.87	24.5	0.0	
100	P12 BPSK	270	0	23.74	23.86	23.85	24.5	0.0	
100	QPSK	1	1	23.99	24.10	23.91			
100	QPSK	1	137	23.79	23.93	23.85			
100	QPSK	1	271	23.86	23.89	23.85	24.5	0.0	
100	QPSK	135	0	23.94	23.95	23.88			
100	QPSK	135	69	23.80	23.90	23.83			
100	QPSK	135	138	23.78	23.88	23.86	24.5	0.0	
100	QPSK	270	0	23.87	23.93	23.86	24.5	0.0	
100	16QAM	1	1	23.72	23.86	23.81			
100	64QAM	1	1	23.87	23.87	23.85			
100	256QAM	1	1	21.77	21.94	21.84	22.5	2.0	
Channel				649668	650000	662334	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dbm)	(db)	
90	QPSK	1	1	23.71	23.88	23.82	24.5	0.0	
Channel				649334	650000	662668	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dbm)	(db)	
80	QPSK	1	1	23.80	23.81	23.70	24.5	0.0	
Channel				649000	650000	663000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3735	3840	3945	(dbm)	(db)	
70	QPSK	1	1	23.72	23.92	23.84	24.5	0.0	
Channel				648668	650000	663334	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dbm)	(db)	
60	QPSK	1	1	23.70	23.85	23.77	24.5	0.0	
Channel				648334	650000	663668	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dbm)	(db)	
50	QPSK	1	1	23.86	23.90	23.87	24.5	0.0	
Channel				648000	650000	664000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3720	3840	3960	(dbm)	(db)	
40	QPSK	1	1	23.83	23.76	23.85	24.5	0.0	
Channel				647668	650000	664334	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3713.02	3840	3953.01	(dbm)	(db)	
30	QPSK	1	1	23.85	23.80	23.70	24.5	0.0	
Channel				647500	650000	664500	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3712.5	3840	3967.5	(dbm)	(db)	
25	QPSK	1	1	23.76	23.87	23.81	24.5	0.0	
Channel				647334	650000	664668	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dbm)	(db)	
20	QPSK	1	1	23.87	23.85	23.79	24.5	0.0	
Channel				647168	650000	664834	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dbm)	(db)	
15	QPSK	1	1	23.71	23.92	23.80	24.5	0.0	
Channel				647000	650000	665000	Tune-up limit (dbm)	MPR	
Frequency (MHz)				3705	3840	3975	(dbm)	(db)	
10	QPSK	1	1	23.72	23.87	23.86	24.5	0.0	

Part270 n78 Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	P12 BPSK	1	1		20.48		21.5	0.0	
100	P12 BPSK	1	137		20.43				
100	P12 BPSK	1	271		20.39				
100	P12 BPSK	135	0		20.48		21.5	0.0	
100	P12 BPSK	135	69		20.33		21.5	0.0	
100	P12 BPSK	135	138		20.38		21.5	0.0	
100	P12 BPSK	270	0		20.45		21.5	0.0	
100	QPSK	1	1		20.62				
100	QPSK	1	137		20.46				
100	QPSK	1	271		20.50		21.5	0.0	
100	QPSK	135	0		20.40				
100	QPSK	135	69		20.61				
100	QPSK	135	138		20.43		21.5	0.0	
100	QPSK	270	0		20.55		21.5	0.0	
100	16QAM	1	1		20.38				
100	64QAM	1	1		20.33				
100	256QAM	1	1		18.50		19.5	2.0	
Channel				648668	650000	660334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	20.45	20.51	20.45	21.5	0.0	
Channel				649334	650000	660968	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3743.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	20.39	20.39	20.38	21.5	0.0	
Channel				649000	650000	661000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	20.36	20.48	20.37	21.5	0.0	
Channel				648668	650000	661334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	20.50	20.43	20.43	21.5	0.0	
Channel				648334	650000	661968	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	20.24	20.32	20.49	21.5	0.0	
Channel				648000	650000	662600	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	20.44	20.34	20.44	21.5	0.0	
Channel				647688	650000	662334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	20.47	20.41	20.43	21.5	0.0	
Channel				647600	650000	662600	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3712.5	3750	3787.5	(dBm)	(dB)	
25	QPSK	1	1	20.39	20.28	20.39	21.5	0.0	
Channel				647334	650000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	20.31	20.45	20.38	21.5	0.0	
Channel				647168	650000	662834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1	20.32	20.29	20.41	21.5	0.0	
Channel				647000	650000	662900	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	20.48	20.55	20.39	21.5	0.0	

Part270 n78 PC2 Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq 650000	Power Middle Ch / Freq 650000	Power High Ch / Freq 650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		23.89			
100	PI/2 BPSK	1	137		23.89		24.5	0.0
100	PI/2 BPSK	1	271		23.86			
100	PI/2 BPSK	135	0		23.91		24.5	0.0
100	PI/2 BPSK	135	69		23.85		24.5	0.0
100	PI/2 BPSK	135	138		23.76		24.5	0.0
100	PI/2 BPSK	270	0		23.79			
100	QPSK	1	1		24.02			
100	QPSK	1	137		23.91		24.5	0.0
100	QPSK	1	271		23.84			
100	QPSK	135	0		23.96		24.5	0.0
100	QPSK	135	69		23.90		24.5	0.0
100	QPSK	135	138		23.86			
100	QPSK	270	0		23.93		24.5	0.0
100	16QAM	1	1		23.81		24.5	0.0
100	64QAM	1	1		23.81		24.5	0.0
100	256QAM	1	1		21.81		22.5	2.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	23.72	23.85	23.75	24.5	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	23.81	23.83	23.77	24.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	23.70	23.86	23.86	24.5	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	23.72	23.87	23.70	24.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	23.87	23.87	23.84	24.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	23.78	23.77	23.85	24.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	23.84	23.74	23.79	24.5	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	23.70	23.84	23.78	24.5	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	23.84	23.81	23.74	24.5	0.0
Channel				647188	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	23.66	23.90	23.79	24.5	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	23.70	23.88	23.83	24.5	0.0

WIFI&Bluetooth

	Art 4-6			Full power&Body-worn Standalone&Extremity for Standalone		Head for Standalone		Head for Simultaneous DBS only&Body-worn for Simultaneous WWAN+non-DBS		Head for Simultaneous WWAN+non-DBS&Body-worn for Simultaneous WWAN+non-DBS		Head for Simultaneous WWAN+non-DBS		Body-worn for Simultaneous DBS only		Hotspot for Simultaneous WWAN+non-DBS&Extremity for Simultaneous WWAN+non-DBS		Hotspot for Simultaneous WWAN+non-DBS		Extremity for Simultaneous DBS only		Extremity for Simultaneous WWAN+non-DBS		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 9Mbps	1	2412	23.84	25.50	20.85	22.50	18.77	20.50	15.75	17.50	12.80	14.50	21.78	23.50	16.29	18.00	14.27	16.00	22.82	24.50	19.81	21.50	97.86
		6	2437	21.72	23.50	20.32	22.00	16.39	20.00	15.37	17.00	12.34	14.00	21.42	23.00	15.95	17.50	14.01	16.00	22.35	24.00	19.39	21.00	
		11	2462	20.37	23.50	20.73	22.50	16.79	20.50	15.76	17.50	12.81	14.50	21.75	23.50	16.28	18.00	14.23	16.00	22.74	24.50	19.71	21.50	
		1	2412	21.18	22.50	20.66	22.50	20.50			17.50		14.50		22.50		16.26	18.00		16.00		22.50		21.50
	802.11g 9Mbps	6	2437	22.64	24.00	20.80	22.50	20.50			17.50		14.50		23.50				16.00			24.00		21.50
		9	2452	21.94	23.50	20.55	22.50	20.50			17.50		14.50		23.50				16.00			23.50		21.50
		10	2457	21.36	23.00	20.60	22.50	20.50			17.50		14.50		23.00				16.00			23.00		21.50
		11	2462	17.11	18.50	17.11	18.50	18.50			17.50		14.50		18.50				16.00			18.50		18.50
	802.11n-HT20 MCS0	1	2412	16.82	18.00		18.00			17.50		14.50		18.00				16.00			18.00		18.00	100.00
		2	2417	22.28	23.50		22.50			17.50		14.50		23.50				16.00			23.50		21.50	
		4	2437	22.66	24.00		22.50			17.50		14.50		23.50				16.00			24.00		21.50	
		9	2452	21.90	23.50		22.50			17.50		14.50		23.50				16.00			23.50		21.50	
	802.11n-HT40 MCS0	10	2457	18.18	20.50		20.50			17.50		14.50		20.50				16.00			20.50		20.50	
		11	2462	15.13	16.50		16.50			16.50		14.50		16.50				16.50			16.50		16.50	
		3	2422	17.76	18.50		18.50	Not Required	18.50	Not Required	17.50	Not Required	14.50	Not Required	18.50	Not Required	18.00	Not Required	16.00	Not Required	18.50	Not Required	18.50	
		6	2437	17.88	19.50		19.50		19.50		17.50		14.50		19.50				19.50			19.50		19.50
	802.11ac-HE20 MCS0	9	2452	15.55	17.00	Not Required			17.00		17.00		17.00		17.00				16.00			17.00		17.00
		1	2412	16.85	17.50		17.50		17.50		17.50		14.50		17.50				16.00			17.50		17.50
		2	2417	22.36	24.00		22.50		20.50		17.50		14.50		23.50				16.00			24.00		21.50
		6	2437	22.75	24.00		22.50		20.50		17.50		14.50		23.50				16.00			24.00		21.50
	802.11ac-HE40 MCS0	9	2452	22.05	23.50		22.50		20.50		17.50		14.50		23.50				16.00			23.50		21.50
		10	2457	19.23	20.50		20.50		20.50		17.50		14.50		20.50				16.00			20.50		20.50
		11	2462	15.19	16.50		16.50		16.50		16.50		14.50		16.50				16.50			16.50		16.50
		3	2422	17.81	19.50		19.50		19.50		17.50		14.50		19.50				16.00			19.50		19.50
	802.11ac-HE80 MCS0	6	2437	18.08	19.50		19.50		19.50		17.50		14.50		19.50				16.00			19.50		19.50
		9	2452	15.70	16.50		16.50		16.50		16.50		14.50		16.50				16.50			16.50		16.50

Note: The 2.4GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

Art 5-7			Full power&Extremity for Standalone		Head for Standalone&Body-worn for Simultaneous DBS only		Head for Simultaneous DBS only&Hotspot for Simultaneous WWAN+non-DBS&Extremity for Simultaneous WWAN+non-DBS		Head for Simultaneous WWAN+non-DBS		Head for Simultaneous WWAN+non-DBS		Body-worn for Standalone&Extremity for Simultaneous DBS only		Body-worn for Simultaneous WWAN+non-DBS		Body-worn for Simultaneous WWAN+non-DBS		Hotspot for Simultaneous WWAN+non-DBS			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.2GHz WLAN	802.11a 9Mbps	36	5180	20.72	21.50		20.00		17.00		15.00		12.00		21.50		17.00		14.00		14.00	99.25
		40	5200	21.68	23.00		20.00		17.00		15.00		12.00		22.00		17.00		14.00		14.00	
		44	5220	20.64	21.50		20.00		17.00		15.00		12.00		21.50		17.00		14.00		14.00	
		48	5240	21.22	23.00		20.00		17.00		15.00		12.00		22.00		17.00		14.00		14.00	
	802.11n-HT20 MCS0	36	5180	19.65	20.50	Not Required	20.00		17.00		15.00		12.00	Not Required	20.50		17.00		14.00		14.00	100.00
		40	5200	20.67	22.00		20.00		17.00		15.00		12.00		22.00		17.00		14.00		14.00	
		44	5220	20.60	22.00		20.00		17.00		15.00		12.00		21.50		17.00		14.00		14.00	
		48	5240	20.72	22.00		20.00		17.00		15.00		12.00		22.00		17.00		14.00		14.00	
	802.11n-HT40 MCS0	36	5180	17.27	18.50	17.27	18.50	Not Required	17.00	Not Required	15.00	Not Required	12.00	17.27	18.50	Not Required	17.00	Not Required	14.00	Not Required	14.00	100.00
		48	5240	21.26	22.50	19.15	20.00		17.00		15.00		12.00	20.70	22.00		17.00		14.00		14.00	
		36	5180	19.70	21.00		20.00		17.00		15.00		12.00		21.00		17.00		14.00		14.00	
		40	5200	20.72	22.00		20.00		17.00		15.00		12.00		22.00		17.00		14.00		14.00	
802.11ac-VHT20 MCS0	44	5220	20.65	22.00		20.00		17.00		15.00		12.00		22.00		17.00		14.00		14.00	100.00	
	48	5240	20.75	22.00		20.00		17.00		15.00		12.00		22.00		17.00		14.00		14.00		
	36	5180	17.30	19.00		19.00		17.00		15.00		12.00		19.00		17.00		14.00		14.00		
	48	5240	21.29	22.50		20.00		17.00		15.00		12.00		22.00		17.00		14.00		14.00		
802.11ac-VHT40 MCS0	42	5210	17.14	18.50	Not Required	18.50	16.18	17.00	14.15	15.00	11.17	12.00	Not Required	18.50	16.21	17.00	13.19	14.00	13.14	14.00	100.00	
	36	5180	19.75	21.00		20.00		17.00		15.00		12.00		21.00		17.00		14.00		14.00		
	40	5200	20.75	22.00		20.00		17.00		15.00		12.00		22.00		17.00		14.00		14.00		
	44	5220	20.69	22.00		20.00		17.00		15.00		12.00		22.00		17.00		14.00		14.00		
802.11ac-HE20 MCS0	48	5240	20.78	22.00		20.00		17.00	Not Required	15.00	Not Required	12.00		22.00	Not Required	17.00	Not Required	14.00	Not Required	14.00	100.00	
	36	5180	17.35	19.00		19.00		17.00		15.00		12.00		19.00		17.00		14.00		14.00		
	48	5240	21.35	22.50		20.00		17.00		15.00		12.00		22.00		17.00		14.00		14.00		
	802.11ac-HE80 MCS0	42	5210	17.19	18.50		18.50		17.00		15.00		12.00		18.50		17.00		14.00		14.00	

Note: The 5GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

Art 5-7				Full power&Extremity for Standalone			Head for Standalone&Body-worn for Simultaneous DBS only		Head for Simultaneous DBS only		Head for Simultaneous WWAN+non-DBS	Head for Simultaneous WWAN+non-DBS		Body-worn for Standalone&Extremity for Simultaneous DBS only	Body-worn for Simultaneous WWAN+non-DBS		Body-worn for Simultaneous WWAN+non-DBS	Body-worn for Simultaneous WWAN+non-DBS	
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Art 5+7				Full power/Extremity for Standalone		Head for Standalone/Body-worn for Standalone		Head for Simultaneous DBS only/Extremity for Simultaneous WWAN+non-DBS		Head for Simultaneous WWAN+non-DBS/Body-worn for Simultaneous WWAN+non-DBS		Head for Simultaneous WWAN+DBS/Body-worn for Simultaneous WWAN+DBS		Extremity for Simultaneous DBS only		Extremity for Simultaneous WWAN+DBS		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
S-6GHz WLAN	802.11a 6Mbps	100	5500	21.32	23.50		21.00		19.00		16.00		13.00		22.50		15.00	99.25
		116	5580	21.16	22.50		21.00		19.00		16.00		13.00		22.50		15.00	
		124	5660	21.02	22.50		21.00		19.00		16.00		13.00		22.50		15.00	
		132	5660	21.01	22.50		21.00		19.00		16.00		13.00		22.50		15.00	
		140	5700	21.55	23.00		21.00		19.00		16.00		13.00		22.50		15.00	
		144	5700	21.09	22.50		21.00		19.00		16.00		13.00		22.50		15.00	
	802.11a-HT20 MCS0	100	5500	20.61	22.50		21.00		19.00		16.00		13.00		22.00		15.00	100.00
		116	5580	20.62	22.00		21.00		19.00		16.00		13.00		22.00		15.00	
		124	5620	20.51	22.00		21.00		19.00		16.00		13.00		22.00		15.00	
		132	5660	20.30	22.00		21.00		19.00		16.00		13.00		22.00		15.00	
		140	5700	18.41	20.00		21.00		19.00		16.00		13.00		20.00		15.00	
		144	5720	20.49	22.00		21.00		19.00		16.00		13.00		22.00		15.00	
	802.11a-HT40 MCS0	102	5510	19.69	21.00		21.00		19.00		16.00		13.00		21.00		15.00	100.00
		110	5550	21.21	22.50	Not Required	21.00	Not Required	19.00	Not Required	16.00	Not Required	13.00	Not Required	22.50	Not Required	15.00	
		126	5630	21.02	22.50		21.00		19.00		16.00		13.00		22.00		15.00	
		134	5670	21.06	22.50		21.00		19.00		16.00		13.00		22.50		15.00	
		142	5710	20.90	22.00		21.00		19.00		16.00		13.00		22.00		15.00	
		150	5500	20.65	22.00		21.00		19.00		16.00		13.00		22.00		15.00	
	802.11ac-VHT20 MCS0	116	5580	20.65	22.00		21.00		19.00		16.00		13.00		22.00		15.00	100.00
		124	5600	20.54	22.00		21.00		19.00		16.00		13.00		22.00		15.00	
		132	5660	20.36	22.00		21.00		19.00		16.00		13.00		22.00		15.00	
		140	5700	18.45	20.00		21.00		19.00		16.00		13.00		20.00		15.00	
		144	5720	20.54	22.00		21.00		19.00		16.00		13.00		22.00		15.00	
		150	5510	19.75	21.00		21.00		19.00		16.00		13.00		21.00		15.00	
	802.11ac-VHT40 MCS0	110	5580	21.26	22.50		21.00		19.00		16.00		13.00		22.50		15.00	100.00
		126	5600	21.06	22.50		21.00		19.00		16.00		13.00		22.50		15.00	
		134	5670	21.09	22.50		21.00		19.00		16.00		13.00		22.50		15.00	
		142	5710	20.93	22.50		21.00		19.00		16.00		13.00		22.50		15.00	
		150	5530	19.14	20.50	19.14	20.50	18.13	19.00	15.09	16.00	12.11	13.00	19.14	20.50	14.13	15.00	
		122	5610	21.14	22.50	20.15	21.00	18.16	19.00	15.12	16.00	12.14	13.00	21.67	22.50	14.18	15.00	
	802.11ac-VHT80 MCS0	138	5690	20.97	22.50	19.99	21.00	18.01	19.00	14.97	16.00	11.98	13.00	21.51	22.50	14.02	15.00	
	802.11ac-VHT160 MCS0	114	5570	19.03	20.50		20.50		19.00		16.00		13.00		20.50		15.00	100.00
		150	5550	20.69	22.00		21.00		19.00		16.00		13.00		22.00		15.00	
		116	5580	20.65	22.00		21.00		19.00		16.00		13.00		22.00		15.00	
		124	5620	20.58	22.00		21.00		19.00		16.00		13.00		22.00		15.00	
		132	5660	20.40	22.00		21.00		19.00		16.00		13.00		22.00		15.00	
		140	5700	18.47	20.00		21.00		19.00		16.00		13.00		20.00		15.00	
	802.11ac-HE40 MCS0	144	5720	20.58	22.00		21.00		19.00		16.00		13.00		22.00		15.00	100.00
		102	5510	19.80	21.50	Not Required	21.00	Not Required	19.00	Not Required	16.00	Not Required	13.00	Not Required	21.50	Not Required	15.00	
		110	5550	21.33	22.50		21.00		19.00		16.00		13.00		22.50		15.00	
		126	5630	21.12	22.50		21.00		19.00		16.00		13.00		22.50		15.00	
		134	5670	21.15	22.50		21.00		19.00		16.00		13.00		22.50		15.00	
		142	5710	21.02	22.50		21.00		19.00		16.00		13.00		22.50		15.00	
	802.11ac-HE80 MCS0	106	5530	19.19	20.50		20.50		19.00		16.00		13.00		20.50		15.00	100.00
		122	5610	21.19	22.50		21.00		19.00		16.00		13.00		22.50		15.00	
		138	5690	21.01	22.50		21.00		19.00		16.00		13.00		22.50		15.00	
	802.11ac-HE160 MCS0	114	5570	19.09	20.50		20.50		19.00		16.00		13.00		20.50		15.00	100.00

Note: The S-6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

Art 5+7			Full power/Extremity for Standalone			Head for Standalone		Head for Simultaneous DBS only		Head for Simultaneous WWAN+non-DBS		Head for Simultaneous WWAN+DBS		Body-worn for Standalone/Extremity for Simultaneous DBS only		Body-worn for Simultaneous DBS only		Body-worn for Simultaneous WWAN+non-DBS		Body-worn for Simultaneous WWAN+DBS/Hotspot for Simultaneous WWAN+non-DBS		Hotspot for Simultaneous WWAN+DBS		Extremity for Simultaneous WWAN+non-DBS		Extremity for Simultaneous WWAN+DBS		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
5 GHz WLAN	802.11a 6Mbps	149	5745	22.49	24.00		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50		99.25	
		157	5785	22.46	24.00		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50			
		165	5825	22.53	24.00		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50			
	802.11a-HT20 MCS0	149	5745	20.38	22.00		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50		100.00	
		157	5785	20.41	22.00		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50			
		165	5825	20.49	22.00		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50			
	802.11a-HT40 MCS0	151	5755	20.91	22.50	Not Required	21.00	Not Required	19.00	Not Required	16.00	Not Required	13.00	Not Required	22.00	Not Required	20.50	Not Required	17.50	Not Required	14.50	Not Required	11.50	Not Required	18.50	Not Required	100.00	
		159	5795	21.01	22.50		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50			
		149	5745	20.41	22.00		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50			
	802.11ac-VHT20 MCS0	157	5785	20.45	22.00		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50		1000.00	
		165	5825	20.52	22.00		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50			
		151	5755	20.94	22.00		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50			
	802.11ac-VHT40 MCS0	159	5795	21.04	22.50		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50		100.00	
		155	5775	20.99	22.50	20.01	21.00	18.03	19.00	14.99	16.00	11.98	13.00	20.99	22.00	19.50	20.50	16.48	17.50	13.52	14.50	10.51	11.50	17.49	18.50	14.47	15.50	100.00
		149	5745	20.45	22.00		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50			
	802.11ac-HE20 MCS0	157	5785	20.49	22.00		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50		100.00	
165		5825	20.56	22.00		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50				
151		5755	20.91	22.50	Not Required	21.00	Not Required	19.00	Not Required	16.00	Not Required	13.00	Not Required	22.00	Not Required	20.50	Not Required	17.50	Not Required	14.50	Not Required	11.50	Not Required	18.50	Not Required			
802.11ac-HE40 MCS0	159	5795	21.19	22.50		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50		100.00		
	155	5775	21.03	22.50		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50				
	149	5745	20.45	22.00		21.00		19.00		16.00		13.00		22.00		20.50		17.50		14.50		11.50		18.50				

BT BR/EDR		Art 4			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			100µs	200µs	500µs
BR / EDR	CH 00	2402	12.72	11.77	11.81
	CH 35	2441	13.52	13.55	13.40
	CH 75	2480	12.82	11.61	11.70
Tune-up Limit			14.50	14.00	14.00

BT BR/EDR		Art 5			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			100µs	200µs	500µs
BR / EDR	CH 00	2402	12.76	11.41	11.19
	CH 35	2441	13.85	11.58	11.60
	CH 75	2480	13.19	11.32	11.00
Tune-up Limit			14.50	12.00	12.00

BLE_1M		Art 4			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			100µs	200µs	500µs
LE	CH 00	2402		12.36	
	CH 19	2440		13.87	
	CH 35	2480		12.49	
Tune-up Limit				14.00	

BLE_1M		Art 5			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			100µs	200µs	500µs
LE	CH 00	2402		12.57	
	CH 19	2440		13.40	
	CH 35	2480		12.78	
Tune-up Limit				14.00	

BLE_2M		Art 4			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			100µs	200µs	500µs
LE	CH 00	2402		12.44	
	CH 19	2440		13.79	
	CH 35	2480		12.73	
Tune-up Limit				14.00	

BLE_2M		Art 5			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			100µs	200µs	500µs
LE	CH 00	2402		12.85	
	CH 19	2440		13.44	
	CH 35	2480		12.89	
Tune-up Limit				14.00	