



Band 42 Ant10 DSIS									
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				42190	42990	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	21.07	21.12	21.05	21.7	0	
20	QPSK	1	49	21.03	21.05	20.99			
20	QPSK	1	99	20.83	20.84	20.92			
20	QPSK	50	0	21.06	21.10	21.07	21.7	0	
20	QPSK	50	24	21.03	21.03	21.07			
20	QPSK	50	50	20.98	21.04	20.97			
20	QPSK	100	0	20.96	21.07	21.03	21.7	0	
20	16QAM	1	0	21.06	21.07	20.97			
20	16QAM	1	49	20.99	20.93	20.94			
20	16QAM	1	99	20.91	20.87	20.86	21.7	0	
20	16QAM	50	0	21.04	20.86	21.04			
20	16QAM	50	24	20.97	20.96	21.11			
20	16QAM	50	50	21.05	21.04	21.02	21.7	0	
20	16QAM	100	0	20.98	21.10	21.05			
20	16QAM	1	0	21.02	21.06	20.92			
20	64QAM	1	0	20.96	20.88	20.92	21.7	0	
20	64QAM	1	49	20.84	20.79	20.73			
20	64QAM	50	0	21.02	20.98	21.05			
20	64QAM	50	24	20.95	21.02	21.07	21.7	0	
20	64QAM	50	50	21.02	21.04	21.00			
20	64QAM	100	0	21.06	21.10	21.05			
20	256QAM	1	0	19.79	19.76	19.86	20.7	1	
20	256QAM	1	49	19.59	19.46	19.58			
20	256QAM	1	99	19.59	19.49	19.84			
20	256QAM	50	0	19.66	19.94	19.94	20.7	1	
20	256QAM	50	24	19.59	19.80	19.81			
20	256QAM	50	50	19.84	19.64	19.78			
20	256QAM	100	0	19.86	19.75	19.73			
Channel				42165	42500	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	20.99	21.00	20.86	21.7	0	
15	QPSK	1	37	21.05	20.92	20.81			
15	QPSK	1	74	20.84	20.74	20.90			
15	QPSK	36	0	20.88	20.91	21.02	21.7	0	
15	QPSK	36	20	20.85	20.83	20.95			
15	QPSK	36	39	20.91	20.84	20.83			
15	QPSK	75	0	20.96	20.86	20.93	21.7	0	
15	16QAM	1	0	21.04	20.90	20.76			
15	16QAM	1	37	20.79	20.89	20.77			
15	16QAM	1	74	20.75	20.86	20.76	21.7	0	
15	16QAM	36	0	20.98	20.85	20.83			
15	16QAM	36	20	20.89	20.77	20.90			
15	16QAM	36	39	20.91	20.83	21.02	21.7	0	
15	16QAM	75	0	20.88	21.09	20.93			
15	64QAM	1	0	20.83	21.04	20.81			
15	64QAM	1	37	20.98	20.72	20.74	21.7	0	
15	64QAM	1	74	20.84	20.71	20.74			
15	64QAM	36	0	20.93	20.88	20.98			
15	64QAM	36	20	20.88	20.86	21.05	21.7	0	
15	64QAM	36	39	20.98	20.98	20.82			
15	64QAM	75	0	20.91	20.96	20.86			
15	256QAM	1	0	19.61	19.86	19.81	20.7	1	
15	256QAM	1	37	19.53	19.64	19.78			
15	256QAM	1	74	19.68	19.49	19.81			
15	256QAM	36	0	19.73	19.94	19.92	20.7	1	
15	256QAM	36	20	19.68	19.69	19.75			
15	256QAM	36	39	19.80	19.74	19.83			
15	256QAM	75	0	19.69	19.72	19.82			
Channel				42140	42500	43040			
Frequency (MHz)				3455	3500	3543			
10	QPSK	1	0	21.01	20.98	20.97	21.7	0	
10	QPSK	1	25	20.87	20.88	20.74			
10	QPSK	1	49	20.69	20.80	20.70			
10	QPSK	25	0	20.82	21.05	20.89	21.7	0	
10	QPSK	25	12	20.98	20.82	20.96			
10	QPSK	25	25	20.82	20.79	20.78			
10	QPSK	50	0	20.79	20.88	20.92	21.7	0	
10	16QAM	1	0	20.81	20.97	20.81			
10	16QAM	1	25	20.83	20.68	20.82			
10	16QAM	1	49	20.72	20.81	20.81	21.7	0	
10	16QAM	25	0	20.87	20.83	21.00			
10	16QAM	25	12	20.74	20.90	21.01			
10	16QAM	25	25	20.96	20.93	20.98	21.7	0	
10	16QAM	50	0	20.94	20.83	20.95			
10	64QAM	1	0	20.80	20.96	20.68			
10	64QAM	1	25	20.92	20.70	20.80	21.7	0	
10	64QAM	1	49	20.79	20.69	20.65			
10	64QAM	25	0	20.76	20.79	20.88			
10	64QAM	25	12	20.74	20.83	21.01	21.7	0	
10	64QAM	25	25	20.76	20.93	20.82			
10	64QAM	50	0	20.83	20.83	20.82			
10	256QAM	1	0	19.83	19.95	19.77	20.7	1	
10	256QAM	1	25	19.98	19.51	19.56			
10	256QAM	1	49	19.58	19.80	19.74			
10	256QAM	25	0	19.70	19.88	19.94	20.7	1	
10	256QAM	25	12	19.71	19.77	19.81			
10	256QAM	25	25	19.81	19.75	19.91			
10	256QAM	50	0	19.73	19.84	19.85			
Channel				42115	42500	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	20.86	20.95	20.88	21.7	0	
5	QPSK	1	12	20.97	21.02	20.89			
5	QPSK	1	24	20.76	20.64	20.78			
5	QPSK	12	0	20.82	21.00	20.91	21.7	0	
5	QPSK	12	7	20.85	20.79	20.90			
5	QPSK	12	13	20.94	20.80	20.72			
5	QPSK	25	0	20.87	20.94	20.94	21.7	0	
5	16QAM	1	0	21.01	21.03	20.82			
5	16QAM	1	12	20.85	20.90	20.68			
5	16QAM	1	24	20.78	20.83	20.81	21.7	0	
5	16QAM	12	0	20.78	20.74	20.92			
5	16QAM	12	7	20.84	20.72	20.94			
5	16QAM	12	13	20.79	20.80	20.87	21.7	0	
5	16QAM	25	0	20.84	20.94	20.84			
5	64QAM	1	0	20.97	20.95	20.71			
5	64QAM	1	12	20.81	20.77	20.81	21.7	0	
5	64QAM	1	24	20.76	20.62	20.68			
5	64QAM	12	0	20.88	20.85	20.97			
5	64QAM	12	7	20.90	20.76	20.98	21.7	0	
5	64QAM	12	13	20.90	20.87	20.79			
5	64QAM	25	0	20.87	21.05	20.99			
5	256QAM	1	0	19.71	19.92	19.68	20.7	1	
5	256QAM	1	12	19.62	19.55	19.67			
5	256QAM	1	24	19.60	19.43	19.82			
5	256QAM	12	0	19.81	19.99	19.79	20.7	1	
5	256QAM	12	7	19.69	19.80	19.78			
5	256QAM	12	13	19.83	19.71	19.91			
5	256QAM	25	0	19.90	19.64	19.85			

Band 48 Ant10 DSIS									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	17.43	17.63	17.66	17.43	18.5	0
20	QPSK	1	49	17.53	17.39	17.45	17.53		
20	QPSK	1	99	17.20	17.35	17.26	17.33		
20	QPSK	50	0	17.18	17.19	17.42	17.07	18.5	0
20	QPSK	50	24	17.02	17.00	17.01	17.11		
20	QPSK	50	50	16.94	17.08	16.94	17.04		
20	QPSK	100	0	16.98	17.09	17.15	17.06	18.5	0
20	16QAM	1	0	17.07	17.10	16.98	17.03		
20	16QAM	1	49	16.95	16.97	17.02	16.95		
20	16QAM	1	99	16.92	16.81	16.88	16.83	18.5	0
20	16QAM	50	0	17.04	16.80	16.74	17.12		
20	16QAM	50	24	16.88	17.07	16.93	17.00		
20	16QAM	50	50	16.99	17.07	17.11	17.04	18.5	0
20	16QAM	100	0	16.97	17.11	17.07	17.06		
20	64QAM	1	0	17.11	17.13	17.11	16.98		
20	64QAM	1	49	16.87	16.78	16.98	16.97	18.5	0
20	64QAM	1	99	16.91	16.81	16.81	16.65		
20	64QAM	50	0	17.03	17.29	17.05	16.92		
20	64QAM	50	24	17.04	16.95	16.99	17.16	18.5	0
20	64QAM	50	50	16.82	16.97	16.88	16.80		
20	64QAM	100	0	17.20	17.61	17.49	17.53		
20	256QAM	1	0	17.13	17.34	17.07	17.01	18.5	0
20	256QAM	1	49	17.28					



Band 42 Ant11 DSIS									
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				42190	42990	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	21.15	21.18	21.08	22.5	0	
20	QPSK	1	49	21.03	20.94	20.92			
20	QPSK	1	99	21.16	21.09	21.05			
20	QPSK	50	0	20.05	20.14	20.02	21.5	1	
20	QPSK	50	24	19.94	20.05	20.05			
20	QPSK	50	50	20.06	20.04	20.09			
20	QPSK	100	0	20.07	20.19	20.04	21.5	1	
20	16QAM	1	0	20.07	20.04	20.12			
20	16QAM	1	49	19.79	19.90	19.90			
20	16QAM	1	99	20.07	20.03	19.99	20.5	2	
20	16QAM	50	0	19.13	19.05	19.08			
20	16QAM	50	24	19.93	19.03	19.15			
20	16QAM	50	50	19.03	19.04	19.01	20.5	2	
20	16QAM	100	0	19.08	19.08	19.98			
20	16QAM	1	0	19.92	19.04	19.15			
20	64QAM	1	0	19.09	19.03	19.01	19.5	3	
20	64QAM	1	99	18.84	18.92	18.82			
20	64QAM	50	0	18.05	18.06	18.17			
20	64QAM	50	24	18.07	18.04	18.03	17.5	5	
20	64QAM	50	50	17.94	18.05	18.08			
20	64QAM	100	0	17.99	18.08	18.02			
20	256QAM	1	0	16.08	16.12	16.20	17.5	5	
20	256QAM	1	49	15.96	15.99	15.94			
20	256QAM	1	99	16.17	16.18	15.96			
20	256QAM	50	0	15.99	16.15	16.05	17.5	5	
20	256QAM	50	24	15.91	16.15	16.02			
20	256QAM	50	50	16.02	15.95	15.98			
20	256QAM	100	0	16.17	16.08	16.07			
Channel				42165	42500	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	21.13	21.06	21.10	22.5	0	
15	QPSK	1	37	20.95	20.88	20.89			
15	QPSK	1	74	21.17	20.91	20.94			
15	QPSK	36	0	19.85	20.07	19.98	21.5	1	
15	QPSK	36	20	19.73	20.07	19.90			
15	QPSK	36	39	19.98	20.04	20.10			
15	QPSK	75	0	20.04	20.01	20.05	21.5	1	
15	16QAM	1	0	19.88	19.82	19.96			
15	16QAM	1	37	19.82	19.70	19.68			
15	16QAM	1	74	20.02	19.99	19.94	20.5	2	
15	16QAM	36	0	18.97	18.92	18.94			
15	16QAM	36	20	18.73	18.88	18.12			
15	16QAM	36	39	18.86	18.99	18.90	20.5	2	
15	16QAM	75	0	19.00	18.89	18.90			
15	64QAM	1	0	18.83	18.83	18.93			
15	64QAM	1	37	19.14	18.93	18.83	20.5	2	
15	64QAM	1	74	18.78	18.81	18.83			
15	64QAM	36	0	17.95	17.86	17.93			
15	64QAM	36	20	17.97	18.07	17.96	19.5	3	
15	64QAM	36	39	17.83	17.95	18.07			
15	64QAM	75	0	17.75	17.94	17.79			
15	256QAM	1	0	16.02	15.96	16.03	17.5	5	
15	256QAM	1	37	15.93	15.91	16.01			
15	256QAM	1	74	16.10	15.80	16.01			
15	256QAM	36	0	15.81	16.00	16.01	17.5	5	
15	256QAM	36	20	15.85	16.16	15.79			
15	256QAM	36	39	15.85	16.15	16.12			
15	256QAM	75	0	15.97	16.10	16.14			
Channel				42140	42500	43040			
Frequency (MHz)				3455	3500	3543			
10	QPSK	1	0	21.01	21.09	20.95	22.5	0	
10	QPSK	1	25	20.81	20.83	20.95			
10	QPSK	1	49	20.99	20.90	20.85			
10	QPSK	25	0	19.92	19.99	19.81	21.5	1	
10	QPSK	25	12	19.76	19.83	19.99			
10	QPSK	25	25	20.07	20.01	19.89			
10	QPSK	50	0	20.14	19.91	19.94	21.5	1	
10	16QAM	1	0	20.04	19.88	20.00			
10	16QAM	1	25	19.83	19.89	19.85			
10	16QAM	1	49	20.02	19.93	19.90	20.5	2	
10	16QAM	25	0	18.93	18.91	19.10			
10	16QAM	25	12	18.72	18.89	19.02			
10	16QAM	25	25	19.00	18.93	19.00	20.5	2	
10	16QAM	50	0	19.07	19.10	18.97			
10	64QAM	1	0	18.76	18.81	18.94			
10	64QAM	1	25	18.88	18.98	18.78	19.5	3	
10	64QAM	1	49	18.76	18.77	18.70			
10	64QAM	25	0	17.94	17.99	18.06			
10	64QAM	25	12	17.83	18.09	18.06	17.5	5	
10	64QAM	25	25	17.82	17.99	18.11			
10	64QAM	50	0	18.00	18.01	17.78			
10	256QAM	1	0	15.99	16.18	15.90	17.5	5	
10	256QAM	1	25	15.79	15.83	16.00			
10	256QAM	1	49	15.90	15.91	15.92			
10	256QAM	25	0	15.90	16.06	15.81	17.5	5	
10	256QAM	25	12	15.71	15.72	15.92			
10	256QAM	25	25	16.03	15.93	15.92			
10	256QAM	50	0	16.22	16.03	15.83			
Channel				42115	42500	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	21.11	21.05	21.03	22.5	0	
5	QPSK	1	12	20.78	20.85	20.87			
5	QPSK	1	24	21.06	21.04	20.97			
5	QPSK	12	0	19.89	19.82	19.81	21.5	1	
5	QPSK	12	7	19.91	19.87	19.81			
5	QPSK	12	13	20.05	19.97	19.92			
5	QPSK	25	0	19.95	19.99	19.90	21.5	1	
5	16QAM	1	0	19.99	19.83	19.91			
5	16QAM	1	12	19.82	19.88	19.78			
5	16QAM	1	24	19.98	20.08	19.76	20.5	2	
5	16QAM	12	0	19.13	18.98	18.88			
5	16QAM	12	7	18.87	19.03	19.09			
5	16QAM	12	13	18.80	18.83	18.82	20.5	2	
5	16QAM	25	0	19.02	18.90	18.74			
5	64QAM	1	0	18.80	18.86	19.03			
5	64QAM	1	12	19.07	18.94	18.79	19.5	3	
5	64QAM	1	24	18.86	18.90	18.73			
5	64QAM	12	0	17.84	18.09	18.13			
5	64QAM	12	7	18.09	17.99	17.87	17.5	5	
5	64QAM	12	13	17.74	17.97	18.01			
5	64QAM	25	0	17.87	17.95	17.93			
5	256QAM	1	0	16.10	15.97	16.03	17.5	5	
5	256QAM	1	12	15.81	15.76	15.89			
5	256QAM	1	24	16.15	15.95	15.86			
5	256QAM	12	0	15.91	15.72	15.76	17.5	5	
5	256QAM	12	7	15.88	15.79	15.70			
5	256QAM	12	13	16.08	16.03	15.84			
5	256QAM	25	0	16.02	16.04	15.79			

Band 48 Ant11 DSIS									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	18.63	18.73	18.75	18.63	20	0
20	QPSK	1	49	18.55	18.71	18.55	18.52		
20	QPSK	1	99	18.70	18.60	18.58	18.57		
20	QPSK	50	0	17.72	17.85	17.87	17.64	19	1
20	QPSK	50	24	17.79	17.61	17.63	17.71		
20	QPSK	50	50	17.65	17.65	17.71	17.78		
20	QPSK	100	0	17.76	17.82	17.88	17.74	19	1
20	16QAM	1	0	17.81	17.57	17.77	17.73		
20	16QAM	1	49	17.85	17.89	17.85	17.83		
20	16QAM	1	99	17.76	17.87	17.86	17.82	18	2
20	16QAM	50	0	16.67	16.68	16.81	16.72		
20	16QAM	50	24	16.68	16.77	16.87	16.83		
20	16QAM	50	50	16.83	16.74	16.63	16.64	18	2
20	16QAM	100	0	16.67	16.70	16.73	16.83		
20	64QAM	1	0	16.63	16.45	16.66	16.48		
20	64QAM	1	49	16.58	16.66	16.41	16.56	17	3
20	64QAM	1	99	16.41	16.38	16.40	16.58		
20	64QAM	50	0	15.78	15.68	15.79	15.74		
20	64QAM	50	24	15.67	15.90	15.88	15.74	17	3
20	64QAM	50	50	15.75	15.66	15.72	15.71		
20	64QAM	100	0	15.77	15.79	15.77	15.94		
20	256QAM	1	0	13.66	13.74	13.49	13.60	15	5
20	256QAM	1	49	13.61	13.80	13.64			



Band 42 Ant12 DSI5										
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				42190	42590	42990				
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	20.33	20.35	20.27	22	0		
20	QPSK	1	49	20.12	20.20	20.16				
20	QPSK	1	99	20.21	20.19	20.20				
20	QPSK	50	0	19.38	19.41	19.36				
20	QPSK	50	24	19.33	19.33	19.32	21	1		
20	QPSK	50	50	19.30	19.27	19.26				
20	QPSK	100	0	19.29	19.34	19.23				
20	16QAM	1	0	19.26	19.45	19.28				
20	16QAM	1	49	19.39	19.37	19.14	21	1		
20	16QAM	1	99	19.25	19.44	19.34				
20	16QAM	50	0	18.46	18.33	18.37				
20	16QAM	50	24	18.35	18.33	18.25				
20	16QAM	50	50	18.22	18.30	18.22	20	2		
20	16QAM	100	0	18.33	18.29	18.35				
20	64QAM	1	0	18.20	18.17	18.28				
20	64QAM	1	49	18.07	18.19	18.22				
20	64QAM	1	99	18.12	18.10	18.21	20	2		
20	64QAM	50	0	17.40	17.38	17.36				
20	64QAM	50	24	17.37	17.29	17.22				
20	64QAM	50	50	17.23	17.25	17.21				
20	64QAM	100	0	17.38	17.23	17.21	19	3		
20	256QAM	1	0	15.35	15.41	15.26				
20	256QAM	1	49	15.19	15.09	15.11				
20	256QAM	1	99	15.12	15.29	15.25				
20	256QAM	50	0	15.43	15.50	15.37	17	5		
20	256QAM	50	24	15.33	15.40	15.30				
20	256QAM	50	50	15.36	15.25	15.36				
20	256QAM	100	0	15.30	15.28	15.19				
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3457.5	3500	3542.5				
15	QPSK	1	0	20.13	20.20	20.10	22	0		
15	QPSK	1	37	20.12	20.07	20.05				
15	QPSK	1	74	20.05	20.13	20.03				
15	QPSK	36	0	19.27	19.28	19.34				
15	QPSK	36	20	19.25	19.26	19.25	21	1		
15	QPSK	36	39	19.22	19.10	19.09				
15	QPSK	75	0	19.23	19.13	19.15				
15	16QAM	1	0	19.19	19.36	19.20				
15	16QAM	1	37	19.31	19.23	19.03	21	1		
15	16QAM	1	74	19.08	19.31	19.20				
15	16QAM	36	0	18.40	18.23	18.30				
15	16QAM	36	20	18.22	18.24	18.07				
15	16QAM	36	39	18.15	18.17	18.04	20	2		
15	16QAM	75	0	18.29	18.17	18.24				
15	64QAM	1	0	18.03	18.06	18.16				
15	64QAM	1	37	18.08	18.15	18.26				
15	64QAM	1	74	18.10	18.17	18.01	20	2		
15	64QAM	36	0	17.35	17.33	17.19				
15	64QAM	36	20	17.33	17.13	17.14				
15	64QAM	36	39	17.12	17.21	17.16				
15	64QAM	75	0	17.25	17.18	17.11	19	3		
15	256QAM	1	0	15.20	15.29	15.05				
15	256QAM	1	37	15.07	15.00	15.08				
15	256QAM	1	74	15.05	15.16	15.00				
15	256QAM	36	0	15.24	15.24	15.35	17	5		
15	256QAM	36	20	15.28	15.24	15.35				
15	256QAM	36	39	15.25	15.11	15.23				
15	256QAM	75	0	15.30	15.18	15.12				
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3455	3500	3545				
10	QPSK	1	0	20.12	20.08	20.10	22	0		
10	QPSK	1	25	20.00	20.07	20.06				
10	QPSK	1	49	20.08	20.13	20.06				
10	QPSK	25	0	19.18	19.08	19.12				
10	QPSK	25	12	19.09	19.14	19.13	21	1		
10	QPSK	25	25	19.23	19.11	19.09				
10	QPSK	50	0	19.16	19.20	19.08				
10	16QAM	1	0	19.11	19.35	19.12				
10	16QAM	1	25	19.42	19.40	19.09	21	1		
10	16QAM	1	49	19.00	19.15	19.12				
10	16QAM	25	0	18.27	18.11	18.14				
10	16QAM	25	12	18.17	18.14	18.00				
10	16QAM	25	25	18.13	18.19	18.05	20	2		
10	16QAM	50	0	18.16	18.12	18.15				
10	64QAM	1	0	18.11	18.03	18.17				
10	64QAM	1	25	18.10	18.25	18.26				
10	64QAM	1	49	18.09	18.18	18.08	20	2		
10	64QAM	25	0	17.24	17.19	17.07				
10	64QAM	25	12	17.22	17.20	17.10				
10	64QAM	25	25	17.10	17.14	17.15				
10	64QAM	50	0	17.18	17.04	17.04	19	3		
10	256QAM	1	0	15.13	15.18	15.07				
10	256QAM	1	25	15.06	15.19	15.07				
10	256QAM	1	49	15.11	15.10	15.16				
10	256QAM	25	0	15.17	15.09	15.12	17	5		
10	256QAM	25	12	15.01	15.03	15.23				
10	256QAM	25	25	15.33	15.19	15.11				
10	256QAM	50	0	15.25	15.30	15.04				
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3452.5	3500	3547.5				
5	QPSK	1	0	20.20	20.10	20.00	22	0		
5	QPSK	1	12	20.03	20.15	20.07				
5	QPSK	1	24	20.08	20.13	20.07				
5	QPSK	12	0	19.16	19.13	19.20				
5	QPSK	12	7	19.09	19.06	19.06	21	1		
5	QPSK	12	13	19.13	19.10	19.19				
5	QPSK	25	0	19.23	19.20	19.07				
5	16QAM	1	0	19.10	19.30	19.24				
5	16QAM	1	12	19.27	19.27	19.03	21	1		
5	16QAM	1	24	19.06	19.27	19.04				
5	16QAM	12	0	18.26	18.13	18.15				
5	16QAM	12	7	18.05	18.13	18.01				
5	16QAM	12	13	18.06	18.23	18.18	20	2		
5	16QAM	25	0	18.13	18.08	18.06				
5	64QAM	1	0	18.14	18.04	18.22				
5	64QAM	1	12	18.10	18.22	18.21				
5	64QAM	1	24	18.03	18.12	18.06	20	2		
5	64QAM	12	0	17.15	17.09	17.13				
5	64QAM	12	7	17.27	17.13	17.11				
5	64QAM	12	13	17.14	17.10	17.14				
5	64QAM	25	0	17.21	17.08	17.05	19	3		
5	256QAM	1	0	15.34	15.22	15.01				
5	256QAM	1	12	15.05	15.10	15.03				
5	256QAM	1	24	15.32	15.17	15.10				
5	256QAM	12	0	15.18	15.13	15.31	17	5		
5	256QAM	12	7	15.10	15.07	15.08				
5	256QAM	12	13	15.06	15.17	15.28				
5	256QAM	25	0	15.23	15.09	15.11				

Band 48 Ant12 DSI5											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				55340	55890	56160	56640				
Frequency (MHz)				3500	3609	3641	3690				
20	QPSK	1	0	17.69	17.78	17.79	17.58	19.5	0		
20	QPSK	1	49	17.72	17.72	17.59	17.67				
20	QPSK	1	99	17.74	17.74	17.54	17.63				
20	QPSK	50	0	16.89	16.93	16.99	16.90				
20	QPSK	50	24	16.87	16.88	16.81	16.90	18.5	1		
20	QPSK	50	50	16.75	16.78	16.85	16.79				
20	QPSK	100	0	16.81	16.86	16.87	16.83				
20	16QAM	1	0	16.96	16.77	16.84	16.80				
20	16QAM	1	49	16.59	16.72	16.68	16.86	18.5	1		
20	16QAM	1	99	16.60	16.73	16.71	16.61				
20	16QAM	50	0	15.92	15.91	15.84	15.93				
20	16QAM	50	24	15.86	15.96	15.90	15.82				
20	16QAM	50	50	15.76	15.83	15.84	15.81	17.5	2		
20	16QAM	100	0	15.91	15.83	15.89	15.79				
20	64QAM	1	0	15.74	15.69	15.75	15.71				
20	64QAM	1	49	15.78	15.77	15.67	15.50				
20	64QAM	1	99	15.54	15.65	15.66	15.56	17.5	2		
20	64QAM	50	0	14.82	14.99	14.84	14.81				
20	64QAM	50	24	14.85	14.82	14.95	14.93				
20	64QAM	50	50	14.68	14.84	14.80	14.85				
20	64QAM	100	0	14.90	14.80	14.87	14.81	16.5	3		
20	256QAM	1	0	12.69	12.76	12.76	12.59				
20	256QAM	1	49	12.73	12.82	12.60	12.66				
20	256QAM	1	99	12.70	12.54	12.65	12.64				
20	256QAM	50	0	12.94							



Band 42 Ant13 DSIS										
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)				42190	42590	42990				
20	QPSK	1	0	19.84	19.96	19.65	20.7	0		
20	QPSK	1	49	19.85	19.83	19.80				
20	QPSK	1	99	19.73	19.85	19.50				
20	QPSK	50	0	19.77	19.90	19.83				
20	QPSK	50	24	19.75	19.87	19.84	20.7	0		
20	QPSK	50	50	19.72	19.74	19.62				
20	QPSK	100	0	19.79	19.80	19.77				
20	16QAM	1	0	19.77	19.86	19.71				
20	16QAM	1	49	19.75	19.52	19.52	20.7	0		
20	16QAM	1	99	19.78	19.82	19.54				
20	16QAM	50	0	19.52	19.80	19.80				
20	16QAM	50	24	19.71	19.90	19.78				
20	16QAM	50	50	19.63	19.62	19.68	20.7	0		
20	16QAM	100	0	19.79	19.89	19.79				
20	64QAM	1	0	19.72	19.62	19.63				
20	64QAM	1	49	19.86	19.65	19.69				
20	64QAM	1	99	19.86	19.81	19.50	20.7	0		
20	64QAM	50	0	19.80	19.64	19.66				
20	64QAM	50	24	19.76	19.81	19.91				
20	64QAM	50	50	19.78	19.66	19.62				
20	64QAM	100	0	19.69	19.87	19.93	20.7	0		
20	256QAM	1	0	19.58	19.74	19.49				
20	256QAM	1	49	19.81	19.70	19.63				
20	256QAM	1	99	19.60	19.78	19.37				
20	256QAM	50	0	19.78	19.65	19.71	20.7	0		
20	256QAM	50	24	19.60	19.83	19.73				
20	256QAM	50	50	19.61	19.92	19.50				
20	256QAM	100	0	19.46	19.74	19.66				
Channel Frequency (MHz)				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	19.53	19.76	19.51	20.7	0		
15	QPSK	1	37	19.70	19.81	19.61				
15	QPSK	1	74	19.53	19.67	19.52				
15	QPSK	36	0	19.49	19.81	19.78				
15	QPSK	36	20	19.88	19.96	19.71	20.7	0		
15	QPSK	36	39	19.54	19.77	19.71				
15	QPSK	75	0	19.62	19.84	19.78				
15	16QAM	1	0	19.61	19.66	19.62				
15	16QAM	1	37	19.66	19.56	19.46	20.7	0		
15	16QAM	1	74	19.59	19.73	19.41				
15	16QAM	36	0	19.47	19.74	19.65				
15	16QAM	36	20	19.63	19.86	19.77				
15	16QAM	36	39	19.52	19.71	19.60	20.7	0		
15	16QAM	75	0	19.54	19.80	19.64				
15	64QAM	1	0	19.64	19.65	19.51				
15	64QAM	1	37	19.69	19.46	19.52				
15	64QAM	1	74	19.76	19.68	19.42	20.7	0		
15	64QAM	36	0	19.59	19.64	19.64				
15	64QAM	36	20	19.68	19.76	19.78				
15	64QAM	36	39	19.66	19.54	19.50				
15	64QAM	75	0	19.40	19.78	19.73	20.7	0		
15	256QAM	1	0	19.60	19.59	19.55				
15	256QAM	1	37	19.77	19.60	19.45				
15	256QAM	1	74	19.65	19.65	19.38				
15	256QAM	36	0	19.73	19.43	19.49	20.7	0		
15	256QAM	36	20	19.62	19.65	19.59				
15	256QAM	36	39	19.45	19.66	19.37				
15	256QAM	75	0	19.53	19.58	19.49				
Channel Frequency (MHz)				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	19.65	19.86	19.54	20.7	0		
10	QPSK	1	25	19.83	19.73	19.77				
10	QPSK	1	49	19.67	19.83	19.60				
10	QPSK	25	0	19.72	19.87	19.79				
10	QPSK	25	12	19.77	19.90	19.85	20.7	0		
10	QPSK	25	25	19.59	19.80	19.60				
10	QPSK	50	0	19.63	19.75	19.74				
10	16QAM	1	0	19.58	19.73	19.58				
10	16QAM	1	25	19.57	19.44	19.56	20.7	0		
10	16QAM	1	49	19.68	19.73	19.54				
10	16QAM	25	0	19.59	19.73	19.57				
10	16QAM	25	12	19.76	19.86	19.83				
10	16QAM	25	25	19.39	19.53	19.50	20.7	0		
10	16QAM	50	0	19.75	19.79	19.63				
10	64QAM	1	0	19.55	19.65	19.66				
10	64QAM	1	25	19.78	19.53	19.54				
10	64QAM	1	49	19.80	19.62	19.53	20.7	0		
10	64QAM	25	0	19.75	19.60	19.61				
10	64QAM	25	12	19.74	19.62	19.76				
10	64QAM	25	25	19.55	19.69	19.68				
10	64QAM	50	0	19.40	19.79	19.63	20.7	0		
10	256QAM	1	0	19.61	19.55	19.41				
10	256QAM	1	25	19.63	19.72	19.63				
10	256QAM	1	49	19.72	19.55	19.38				
10	256QAM	25	0	19.68	19.63	19.55	20.7	0		
10	256QAM	25	12	19.63	19.66	19.67				
10	256QAM	25	25	19.47	19.64	19.44				
10	256QAM	50	0	19.35	19.68	19.48				
Channel Frequency (MHz)				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	19.58	19.83	19.56	20.7	0		
5	QPSK	1	12	19.66	19.80	19.64				
5	QPSK	1	24	19.61	19.68	19.38				
5	QPSK	12	0	19.54	19.86	19.89				
5	QPSK	12	7	19.78	19.92	19.67	20.7	0		
5	QPSK	12	13	19.66	19.57	19.61				
5	QPSK	25	0	19.69	19.79	19.69				
5	16QAM	1	0	19.51	19.62	19.52				
5	16QAM	1	12	19.67	19.49	19.46	20.7	0		
5	16QAM	1	24	19.52	19.70	19.53				
5	16QAM	12	0	19.46	19.75	19.63				
5	16QAM	12	7	19.74	19.80	19.73				
5	16QAM	12	13	19.51	19.71	19.56	20.7	0		
5	16QAM	25	0	19.52	19.72	19.61				
5	64QAM	1	0	19.57	19.70	19.65				
5	64QAM	1	12	19.74	19.54	19.72				
5	64QAM	1	24	19.80	19.52	19.45	20.7	0		
5	64QAM	12	0	19.57	19.74	19.63				
5	64QAM	12	7	19.58	19.66	19.83				
5	64QAM	12	13	19.58	19.56	19.67				
5	64QAM	25	0	19.31	19.73	19.62	20.7	0		
5	256QAM	1	0	19.60	19.74	19.35				
5	256QAM	1	12	19.62	19.69	19.64				
5	256QAM	1	24	19.60	19.73	19.43				
5	256QAM	12	0	19.71	19.53	19.68	20.7	0		
5	256QAM	12	7	19.67	19.71	19.66				
5	256QAM	12	13	19.41	19.66	19.31				
5	256QAM	25	0	19.52	19.74	19.60				

Band 48 Ant13 DSIS											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel Frequency (MHz)				55340	55890	56160	56640				
20	QPSK	1	0	19.30	19.41	19.47	19.37	20.5	0		
20	QPSK	1	49	19.32	19.23	19.28	19.14				
20	QPSK	1	99	19.42	19.37	19.19	19.21				
20	QPSK	50	0	19.20	19.38	19.45	19.31				
20	QPSK	50	24	19.30	19.38	19.42	19.32	20.5	0		
20	QPSK	50	50	19.31	19.28	19.19	19.38				
20	QPSK	100	0	19.41	19.39	19.42	19.34				
20	16QAM	1	0	19.03	18.93	19.13	19.24				
20	16QAM	1	49	19.03	18.98	19.20	19.21	20.5	0		
20	16QAM	1	99	19.22	19.33	19.00	19.20				
20	16QAM	50	0	19.09	19.25	19.28	19.37				
20	16QAM	50	24	19.10	19.07	19.14	19.18				
20	16QAM	50	50	19.17	19.42	19.02	19.28	20.5	0		
20	16QAM	100	0	19.41	19.19	19.35	19.20				
20	64QAM	1	0	19.19	19.06	19.24	19.14				
20	64QAM	1	49	18.98	19.27	18.97	19.15				
20	64QAM	1	99	19.34	19.23	19.01	19.18	20.5	0		
20	64QAM	50	0	19.12	19.20	19.31	19.37				
20	64QAM	50	24	19.17	19.28	19.39	19.21				
20	64QAM	50	50	19.14	19.32	19.18	19.19				
20	64QAM	100	0	19.45	19.27	19.21	19.27	18.5	2		
20	256QAM	1	0	17.39	17.24	17.01	17.27				
20	256QAM	1	49	17.17	17.22	16.97	17.11				
20	256QAM	1	99	17.26	17.18	17.23	17.25				
20	256QAM	50	0	17.24	17.26	17.23	17.41	18.5	2		
20	256QAM	50	24	17.05	17.31	17.51	17.43				
20	256QAM	50	50	17.32</							



Ant 10 Default Power		DS13&4									
CA_42C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Lev	Measure d Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
42190	42388	QPSK	1	99	1	0	1	0	24.02	25.70	
42590	42788	QPSK	1	0	1	99	1	0	24.07	25.70	
42990	42792	QPSK	1	0	1	99	1	0	24.03	25.70	
42190	42388	QPSK	1	49	50	0	1	0	23.26	24.70	
42590	42788	QPSK	50	0	1	49	1	0	23.27	24.70	
42990	42792	QPSK	50	0	1	49	1	0	23.09	24.70	

Ant 11 Default Power		DS11&4&5									
CA_42C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Lev	Measure d Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
42190	42388	QPSK	1	99	1	0	1	0	20.56	22.50	
42590	42788	QPSK	1	0	1	99	1	0	20.76	22.50	
42990	42792	QPSK	1	0	1	99	1	0	20.56	22.50	
42190	42388	QPSK	1	49	50	0	1	0	20.12	21.50	
42590	42788	QPSK	50	0	1	49	1	0	20.26	21.50	
42990	42792	QPSK	50	0	1	49	1	0	20.25	21.50	

Ant 12 Default Power		DS11&4&5									
CA_42C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Lev	Measure d Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
42190	42388	QPSK	1	99	1	0	1	0	20.13	22.00	
42590	42788	QPSK	1	0	1	99	1	0	20.3	22.00	
42990	42792	QPSK	1	0	1	99	1	0	20.03	22.00	
42190	42388	QPSK	1	49	50	0	1	0	19.61	21.00	
42590	42788	QPSK	50	0	1	49	1	0	19.8	21.00	
42990	42792	QPSK	50	0	1	49	1	0	19.83	21.00	

Ant 13 Default Power		DS11									
CA_42C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Lev	Measure d Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
42190	42388	QPSK	1	99	1	0	1	0	24.17	25.70	
42590	42788	QPSK	1	0	1	99	1	0	24.07	25.70	
42990	42792	QPSK	1	0	1	99	1	0	24.02	25.70	
42190	42388	QPSK	1	49	50	0	1	0	23.27	24.70	
42590	42788	QPSK	50	0	1	49	1	0	23.32	24.70	
42990	42792	QPSK	50	0	1	49	1	0	23.18	24.70	

Ant 10 Down power		DS11&5									
CA_42C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Lev	Measure d Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
42190	42388	QPSK	1	99	1	0	1	0	19.96	21.70	
42590	42788	QPSK	1	0	1	99	1	0	20.13	21.70	
42990	42792	QPSK	1	0	1	99	1	0	19.88	21.70	
42190	42388	QPSK	1	49	50	0	1	0	19.67	21.70	
42590	42788	QPSK	50	0	1	49	1	0	19.84	21.70	
42990	42792	QPSK	50	0	1	49	1	0	19.79	21.70	

Ant 13 Down power		DS11&5									
CA_42C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Lev	Measure d Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
42190	42388	QPSK	1	99	1	0	1	0	19.16	20.70	
42590	42788	QPSK	1	0	1	99	1	0	19.25	20.70	
42990	42792	QPSK	1	0	1	99	1	0	19.16	20.70	
42190	42388	QPSK	1	49	50	0	1	0	19.16	20.70	
42590	42788	QPSK	50	0	1	49	1	0	19.22	20.70	
42990	42792	QPSK	50	0	1	49	1	0	19.14	20.70	



DL CA

2CA DL

CA List	PCC										SCC				Power	
	LTE		BW (MHz)	UL	UL	Mod.	UL#	UL	Band	BW (MHz)	DL	DL	Tx. Power (dBm)	Tx. Power (dBm)		
	Band	Ant		Freq. (MHz)	Channel		RB	RB Offset			Freq. (MHz)	Channel				
	Band	Ant	RB	RB Offset	Band	RB	RB Offset	Band	RB	RB Offset						
CA_2C	Band 2	Ant3	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.8	1098	24.25	24.28		
	Band 2	Ant4	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.8	1098	23.86	24.03		
CA_2A_5A	Band 2	Ant3	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	24.12	24.28		
	Band 2	Ant4	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	23.96	24.03		
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	24.04	24.24		
CA_2A_66A	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	24.26	24.31		
	Band 2	Ant3	20M	1880	18900	QPSK	1	0	Band 66	20M	2145	66786	24.24	24.28		
	Band 2	Ant4	20M	1880	18900	QPSK	1	0	Band 66	20M	2145	66786	24	24.03		
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	24.17	24.2		
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	22.95	23.07		
CA_7A_42A	Band 7	Ant3	20M	2535	21100	QPSK	1	0	Band 42	20M	3500	42590	24.3	24.35		
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	Band 42	20M	3500	42590	24.36	24.38		
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	Band 42	20M	3500	42590	24.62	24.77		
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 42	20M	3500	42590	23.13	23.21		
	Band 42	Ant10	20M	3500	42590	QPSK	1	0	Band 7	20M	2655	3100	24.84	24.84		
	Band 42	Ant11	20M	3500	42590	QPSK	1	0	Band 7	20M	2655	3100	21.08	21.18		
	Band 42	Ant12	20M	3500	42590	QPSK	1	0	Band 7	20M	2655	3100	20.28	20.95		
	Band 42	Ant13	20M	3500	42590	QPSK	1	0	Band 7	20M	2655	3100	21.77	24.85		
CA_38C	Band 38	Ant3	20M	2595	38000	QPSK	1	0	Band 38	20M	2614.8	38198	24.27	24.32		
	Band 38	Ant5	20M	2595	38000	QPSK	1	0	Band 38	20M	2614.8	38198	24.29	24.37		
	Band 38	Ant4	20M	2595	38000	QPSK	1	0	Band 38	20M	2614.8	38198	24.8	24.81		
	Band 38	Ant0	20M	2595	38000	QPSK	1	0	Band 38	20M	2614.8	38198	22.85	22.94		
CA_41C	Band 41	Ant3	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	24.24	24.37		
	Band 41	Ant5	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	24.3	24.38		
CA_5A_41A	Band 41	Ant4	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	24.82	24.84		
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	22.94	22.95		
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	24.2	24.24		
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	24.26	24.31		
	Band 41	Ant3	20M	2593	40620	QPSK	1	0	Band 5	10M	881.5	2525	24.27	24.37		
CA_4A_48A	Band 41	Ant5	20M	2593	40620	QPSK	1	0	Band 5	10M	881.5	2525	24.28	24.38		
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	Band 5	10M	881.5	2525	24.71	24.84		
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 5	10M	881.5	2525	22.91	22.95		
	Band 4	Ant3	20M	1732.5	20175	QPSK	1	0	Band 48	20M	3641	56150	24.36	24.47		
	Band 4	Ant5	20M	1732.5	20175	QPSK	1	0	Band 48	20M	3641	56150	22.94	23.01		
	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0	Band 48	20M	3641	56150	24	24.11		
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	Band 48	20M	3641	56150	23	23.04		
	Band 48	Ant10	20M	3641	56150	QPSK	1	0	Band 4	20M	2132.5	2175	22.33	22.42		
CA_5A_48A	Band 48	Ant11	20M	3641	56150	QPSK	1	0	Band 4	20M	2132.5	2175	18.61	18.75		
	Band 48	Ant12	20M	3641	56150	QPSK	1	0	Band 4	20M	2132.5	2175	17.67	17.79		
	Band 48	Ant13	20M	3641	56150	QPSK	1	0	Band 4	20M	2132.5	2175	22.34	22.42		
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 48	20M	3641	56150	24.2	24.24		
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 48	20M	3641	56150	24.18	24.31		
	Band 48	Ant10	20M	3641	56150	QPSK	1	0	Band 5	10M	881.5	2525	22.32	22.42		
CA_12A_48A	Band 48	Ant11	20M	3641	56150	QPSK	1	0	Band 5	10M	881.5	2525	18.67	18.75		
	Band 48	Ant12	20M	3641	56150	QPSK	1	0	Band 5	10M	881.5	2525	17.76	17.79		
	Band 48	Ant13	20M	3641	56150	QPSK	1	0	Band 5	10M	881.5	2525	22.35	22.42		
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0	Band 48	20M	3641	56150	24.49	24.54		
	Band 12	Ant1	10M	707.5	23095	QPSK	1	0	Band 48	20M	3641	56150	24.31	24.46		
	Band 48	Ant10	20M	3641	56150	QPSK	1	0	Band 12	10M	737.5	5095	22.34	22.42		
CA_41A_48A	Band 48	Ant11	20M	3641	56150	QPSK	1	0	Band 12	10M	737.5	5095	18.69	18.75		
	Band 48	Ant12	20M	3641	56150	QPSK	1	0	Band 12	10M	737.5	5095	17.69	17.79		
	Band 48	Ant13	20M	3641	56150	QPSK	1	0	Band 12	10M	737.5	5095	22.32	22.42		
	Band 41	Ant3	20M	2593	40620	QPSK	1	0	Band 48	20M	3641	56150	24.22	24.37		
	Band 41	Ant5	20M	2593	40620	QPSK	1	0	Band 48	20M	3641	56150	24.24	24.38		
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	Band 48	20M	3641	56150	24.69	24.84		
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 48	20M	3641	56150	22.85	22.95		
	Band 48	Ant10	20M	3641	56150	QPSK	1	0	Band 41	20M	2593	40620	22.36	22.42		
CA_48A_48A	Band 48	Ant11	20M	3641	56150	QPSK	1	0	Band 41	20M	2593	40620	18.68	18.75		
	Band 48	Ant12	20M	3641	56150	QPSK	1	0	Band 41	20M	2593	40620	17.72	17.79		
	Band 48	Ant13	20M	3641	56150	QPSK	1	0	Band 41	20M	2593	40620	22.35	22.42		
	Band 48	Ant10	20M	3641	56150	QPSK	1	0	Band 48	5M	3697.5	56715	22.35	22.42		
CA_48A_66A	Band 48	Ant11	20M	3641	56150	QPSK	1	0	Band 48	5M	3697.5	56715	18.69	18.75		
	Band 48	Ant12	20M	3641	56150	QPSK	1	0	Band 48	5M	3697.5	56715	17.76	17.79		
	Band 48	Ant13	20M	3641	56150	QPSK	1	0	Band 48	5M	3697.5	56715	22.29	22.42		
	Band 48	Ant10	20M	3641	56150	QPSK	1	0	Band 66	20M	2145	66786	22.3	22.42		
CA_42C	Band 48	Ant11	20M	3641	56150	QPSK	1	0	Band 66	20M	2145	66786	18.7	18.75		
	Band 48	Ant12	20M	3641	56150	QPSK	1	0	Band 66	20M	2145	66786	17.75	17.79		
	Band 48	Ant13	20M	3641	56150	QPSK	1	0	Band 66	20M	2145	66786	22.36	22.42		
	Band 66	Ant3	20M	1745	132322	QPSK	1	0	Band 48	20M	3641	56150	24.45	24.48		
	Band 66	Ant5	20M	1745	132322	QPSK	1	0	Band 48	20M	3641	56150	22.9	23.03		
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	Band 48	20M	3641	56150	24.16	24.2		
CA_66B	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 48	20M	3641	56150	23.04	23.07		
	Band 42	Ant10	20M	3575	43340	QPSK	1	0	Band 42	20M	3594.8	43538	24.86	24.84		
	Band 42	Ant11	20M	3575	43340	QPSK	1	0	Band 42	20M	3594.8	43538	22.51	22.5		
	Band 42	Ant12	20M	3575	43340	QPSK	1	0	Band 42	20M	3594.8	43538	20.24	20.35		
	Band 42	Ant13	20M	3575	43340	QPSK	1	0	Band 42	20M	3594.8	43538	24.82	24.85		
CA_66C	Band 66	Ant0	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.3	66979	22.94	23.07		
	Band 66	Ant3	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.3	66979	24.34	24.48		
	Band 66	Ant4	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.3	66979	24.08	24.2		
	Band 66	Ant5	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.3	66979	22.82	23.03		
CA_66C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	22.97	23.07		
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	24.42	24.48		
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	24.09	24.2		
CA_66C	Band 66	Ant4	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	22.85	23.03		



3CA DL

3CA List	PCC								SCC1				SCC2				Power	
	LTE	BW	UL	UL	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA		
	Band	Ant	(MHz)	Freq (MHz)	Channel	RB	Offset	Band	(MHz)	Freq (MHz)	Channel	Band	(MHz)	Freq (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)	
CA_2A_4A_5A	Band 2	An3	20M	1880	18900	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	24.19	24.28	
	Band 2	An4	20M	1880	18900	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	23.98	24.03	
	Band 4	An4	20M	1732.5	20175	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	24.03	24.11	
	Band 4	An0	20M	1732.5	20175	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	22.91	23.04	
	Band 5	An1	10M	836.5	20525	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.19	24.24	
CA_2A_4A_7A	Band 2	An3	20M	1880	18900	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	24.25	24.28	
	Band 2	An4	20M	1880	18900	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	23.95	24.03	
	Band 4	An4	20M	1732.5	20175	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	23.98	24.11	
	Band 4	An0	20M	1732.5	20175	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	22.93	23.04	
	Band 7	An4	20M	2535	21100	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.74	24.77	
CA_2A_7A_7A	Band 2	An3	20M	1880	18900	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	24.22	24.28	
	Band 2	An4	20M	1880	18900	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	23.97	24.03	
	Band 7	An3	20M	2535	21100	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	24.3	24.35	
	Band 7	An5	20M	2535	21100	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	24.31	24.38	
	Band 7	An4	20M	2535	21100	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	24.7	24.77	
CA_2A_7C	Band 2	An3	20M	1880	18900	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.24	24.28	
	Band 2	An4	20M	1880	18900	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.97	24.03	
	Band 7	An4	20M	2535	21100	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	24.66	24.77	
	Band 7	An0	20M	2535	21100	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	23.15	23.21	
	Band 4	An3	20M	1732.5	20175	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.43	24.47	
CA_4A_7C	Band 4	An5	20M	1732.5	20175	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.96	23.01	
	Band 4	An0	20M	1732.5	20175	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.04	24.11	
	Band 4	An0	20M	1732.5	20175	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.93	23.04	
	Band 7	An3	20M	2535	21100	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	24.29	24.35	
	Band 7	An5	20M	2535	21100	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	24.33	24.38	
CA_5A_7A_7A	Band 7	An4	20M	2535	21100	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	24.64	24.77	
	Band 7	An0	20M	2535	21100	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	23.06	23.21	
	Band 5	An0	10M	836.5	20525	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	24.16	24.24	
	Band 5	An1	10M	836.5	20525	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	24.23	24.31	
	Band 7	An3	20M	2535	21100	1	0	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	24.27	24.35	
CA_5A_7C	Band 7	An5	20M	2535	21100	1	0	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	24.23	24.38	
	Band 7	An4	20M	2535	21100	1	0	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	24.63	24.77	
	Band 7	An0	20M	2535	21100	1	0	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	23.1	23.21	
	Band 5	An0	10M	836.5	20525	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.17	24.24	
	Band 5	An1	10M	836.5	20525	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.21	24.31	
CA_5A_7A_66A	Band 7	An3	20M	2535	21100	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	24.2	24.35	
	Band 7	An5	20M	2535	21100	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	24.3	24.38	
	Band 7	An4	20M	2535	21100	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	24.7	24.77	
	Band 7	An0	20M	2535	21100	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	23.11	23.21	
	Band 5	An0	10M	836.5	20525	1	0	Band 7	20M	2655	3100	Band 66	20M	2145	66786	24.11	24.24	
CA_5A_66A_66A	Band 5	An1	10M	836.5	20525	1	0	Band 7	20M	2655	3100	Band 66	20M	2145	66786	24.2	24.31	
	Band 7	An3	20M	2535	21100	1	0	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	24.27	24.35	
	Band 7	An5	20M	2535	21100	1	0	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	24.24	24.38	
	Band 7	An4	20M	2535	21100	1	0	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	24.63	24.77	
	Band 7	An0	20M	2535	21100	1	0	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	23.08	23.21	
CA_7A_66A_66A	Band 66	An3	20M	1745	132322	1	0	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	24.42	24.48	
	Band 66	An5	20M	1745	132322	1	0	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	22.98	23.03	
	Band 66	An4	20M	1745	132322	1	0	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	24.13	24.2	
	Band 66	An0	20M	1745	132322	1	0	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	23.02	23.07	
	Band 5	An0	10M	836.5	20525	1	0	Band 66	20M	2145	66786	Band 66	5M	2197.5	67311	24.14	24.24	
CA_12A_66A_66A	Band 5	An1	10M	836.5	20525	1	0	Band 66	20M	2145	66786	Band 66	5M	2197.5	67311	24.24	24.31	
	Band 66	An3	20M	1745	132322	1	0	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	24.34	24.48	
	Band 66	An5	20M	1745	132322	1	0	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	22.89	23.03	
	Band 66	An4	20M	1745	132322	1	0	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	24.07	24.2	
	Band 66	An0	20M	1745	132322	1	0	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	23.02	23.07	
CA_41A_41A_41A	Band 7	An3	20M	2535	21100	1	0	Band 66	20M	2145	66786	Band 66	5M	2197.5	67311	24.2	24.35	
	Band 7	An5	20M	2535	21100	1	0	Band 66	20M	2145	66786	Band 66	5M	2197.5	67311	24.32	24.38	
	Band 7	An4	20M	2535	21100	1	0	Band 66	20M	2145	66786	Band 66	5M	2197.5	67311	24.71	24.77	
	Band 7	An0	20M	2535	21100	1	0	Band 66	20M	2145	66786	Band 66	5M	2197.5	67311	23.12	23.21	
	Band 66	An3	20M	1745	132322	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	24.41	24.48	



3CA DL

3CA List	PCC					SCC1				SCC2				Power	
	LTE	BW	BW	UL	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
	Band	Ant	(MHz)	Freq	Channel	Band	(MHz)	Freq	Channel	Band	(MHz)	Freq	Channel	Tx. Power	Tx. Power
				(MHz)				(MHz)				(MHz)		(dBm)	(dBm)
CA_5A_7A_66A	Band 7	Ant7	20M	2535	21100	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	23.21	23.24



4CA DL

Configure	PCC					SCC1				SCC2				SCC3				Power	
	LTE	BW	BW	UL	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
	Band	Ant	(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_7C-66A-66A	Band 7	Ant7	20M	2535	21100	Band 7	20M	2674.8	3298	Band 66	20M	2145	66786	Band 66	5M	2177.5	67111	23.2	23.24



4CA DL

Configure	PCC						SCC1				SCC2				SCC3				Power			
	LTE	Ant	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
	Band		(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
CA_TC_66A_66A	Band 7	Ant3	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2145	66786	Band 66	5M	2197.5	67311	24.25	24.35
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2145	66786	Band 66	5M	2197.5	67311	24.28	24.38
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2145	66786	Band 66	5M	2197.5	67311	23.16	23.21
	Band 66	Ant3	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.43	24.48
	Band 66	Ant5	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.04	23.03
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	21.21	24.2
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.94	23.07



Full Power level/Default Power level for 5G NR

n5 Ant0 Default DFT-15									
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				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	24.99	25.01	24.80			
20	PI2 BPSK	1	53	25.06	25.07	24.80	25.5	0.0	
20	PI2 BPSK	1	104	24.74	24.96	24.85			
20	PI2 BPSK	50	0	24.55	24.53	24.43	25.0	0.5	
20	PI2 BPSK	50	28	24.92	25.06	24.85	25.5	0.0	
20	PI2 BPSK	50	59	24.46	24.49	24.36	25.0	0.5	
20	PI2 BPSK	100	0	24.40	24.47	24.29			
20	QPSK	1	1	24.99	25.20	25.15			
20	QPSK	1	53	25.09	25.15	25.08	25.5	0.0	
20	QPSK	1	104	24.97	25.13	25.06			
20	QPSK	50	0	23.94	24.09	23.97	24.5	1.0	
20	QPSK	50	28	25.13	25.17	25.08	25.5	0.0	
20	QPSK	50	58	23.93	24.05	23.94	24.5	1.0	
20	QPSK	100	0	23.89	24.06	23.88			
20	16QAM	1	1	23.80	23.97	23.80	24.5	1.0	
20	64QAM	1	1	22.39	22.43	22.37	23.0	2.5	
20	256QAM	1	1	20.26	20.40	20.20	21.0	4.5	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	25.17	25.14	25.11	25.5	0.0	
Channel				168900	167300	168900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	25.19	25.10	25.12	25.5	0.0	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
5	QPSK	1	1	25.08	25.16	25.02	25.5	0.0	

n7 Ant0 Default DFT-15									
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	PI2 BPSK	1	1	23.29	23.47	23.40			
40	PI2 BPSK	1	108	23.24	23.38	23.18	24.5	0.0	
40	PI2 BPSK	1	214	23.24	23.38	23.19			
40	PI2 BPSK	108	0	22.73	22.86	22.72	24.0	0.5	
40	PI2 BPSK	108	54	23.21	23.39	23.27	24.5	0.0	
40	PI2 BPSK	108	108	22.82	22.82	22.81	24.0	0.5	
40	PI2 BPSK	216	0	22.76	22.86	22.72			
40	QPSK	1	1	23.47	23.52	23.40			
40	QPSK	1	108	23.29	23.33	23.18	24.5	0.0	
40	QPSK	1	214	23.16	23.32	23.17			
40	QPSK	108	0	22.24	22.40	22.27	23.5	1.0	
40	QPSK	108	54	23.29	23.44	23.40	24.5	0.0	
40	QPSK	108	108	22.39	22.42	22.41	23.5	1.0	
40	QPSK	216	0	22.35	22.39	22.18			
40	16QAM	1	1	22.33	22.44	22.44	23.5	1.0	
40	64QAM	1	1	20.81	20.82	20.66	22.0	2.5	
40	256QAM	1	1	19.04	19.08	18.89	20.0	4.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2533	2555			
30	QPSK	1	1	23.16	23.32	23.30	24.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	23.18	23.38	23.29	24.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	23.19	23.41	23.30	24.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2533	2562.5			
15	QPSK	1	1	23.15	23.24	23.24	24.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.17	23.38	23.37	24.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.23	23.38	23.34	24.5	0.0	

n6 Ant0 Default DFT-15									
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			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	22.70	22.75	22.77			
40	PI2 BPSK	1	108	22.90	22.93	22.98	24.5	0.0	
40	PI2 BPSK	1	214	22.81	22.81	22.83			
40	PI2 BPSK	108	0	22.34	22.28	22.24	24.0	0.5	
40	PI2 BPSK	108	54	22.84	22.87	22.83	24.5	0.0	
40	PI2 BPSK	108	108	22.46	22.40	22.40	24.0	0.5	
40	PI2 BPSK	216	0	22.43	22.41	22.48			
40	QPSK	1	1	22.91	22.95	22.85			
40	QPSK	1	108	22.84	22.92	22.83	24.5	0.0	
40	QPSK	1	214	22.89	22.80	22.86			
40	QPSK	108	0	21.90	21.85	21.87	23.5	1.0	
40	QPSK	108	54	22.98	22.91	22.90	24.5	0.0	
40	QPSK	108	108	21.92	21.92	21.97	23.5	1.0	
40	QPSK	216	0	21.91	21.99	21.93			
40	16QAM	1	1	22.08	22.07	22.03	23.5	1.0	
40	64QAM	1	1	20.56	20.55	20.55	22.0	2.5	
40	256QAM	1	1	18.17	18.10	18.07	20.0	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.72	22.71	22.74	24.5	0.0	
Channel				344500	349000	348000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.75	22.81	22.84	24.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.76	22.70	22.75	24.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.67	22.78	22.83	24.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.76	22.75	22.86	24.5	0.0	



n38 Ant0 Default DFT-30								
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	PI/2 BPSK	1	1	23.15	23.08	23.07		
40	PI/2 BPSK	1	53	22.99	23.06	23.15	24.5	0.0
40	PI/2 BPSK	1	104	23.12	23.15	23.10		
40	PI/2 BPSK	50	0	22.34	22.36	22.32	24.0	0.5
40	PI/2 BPSK	50	28	23.16	23.16	23.16	24.5	0.0
40	PI/2 BPSK	50	56	22.76	22.78	22.75	24.0	0.5
40	PI/2 BPSK	100	0	22.52	22.49	22.52		
40	QPSK	1	1	23.16	23.19	23.06		
40	QPSK	1	53	23.18	23.15	23.12	24.5	0.0
40	QPSK	1	104	23.08	23.06	23.09		
40	QPSK	50	0	21.78	21.73	21.71	23.5	1.0
40	QPSK	50	28	22.90	22.93	22.89	24.5	0.0
40	QPSK	50	56	22.27	22.27	22.25	23.5	1.0
40	QPSK	100	0	21.86	21.96	21.88		
40	16QAM	1	1	22.08	22.12	22.07	23.5	1.0
40	64QAM	1	1	20.68	20.71	20.77	22.0	2.5
40	256QAM	1	1	18.83	18.80	18.79	20.0	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99	24.5	0.0
30	QPSK	1	1	23.03	23.03	22.95		
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610	24.5	0.0
20	QPSK	1	1	23.03	23.16	23.12		
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49	24.5	0.0
15	PI/2 BPSK	1	1	23.12	23.05	23.07		
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98	24.5	0.0
10	PI/2 BPSK	1	1	23.03	23.09	23.07		

n41 Ant0 Default DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.06	23.08	23.10		
100	PI/2 BPSK	1	137	23.11	23.09	23.16	24.5	0.0
100	PI/2 BPSK	1	271	22.78	22.74	22.76		
100	PI/2 BPSK	135	0	22.50	22.49	22.49	24.0	0.5
100	PI/2 BPSK	135	69	23.11	23.12	23.16	24.5	0.0
100	PI/2 BPSK	135	138	22.81	22.76	22.76	24.0	0.5
100	PI/2 BPSK	270	0	22.51	22.49	22.53		
100	QPSK	1	1	23.17	23.20	23.18		
100	QPSK	1	137	23.12	23.13	23.19	24.5	0.0
100	QPSK	1	271	22.85	22.78	22.83		
100	QPSK	135	0	22.01	21.94	22.01	23.5	1.0
100	QPSK	135	69	22.95	23.01	22.96	24.5	0.0
100	QPSK	135	138	22.34	22.28	22.24	23.5	1.0
100	QPSK	270	0	21.96	21.97	21.94		
100	16QAM	1	1	21.92	21.92	21.95	23.5	1.0
100	64QAM	1	1	20.51	20.46	20.44	22.0	2.5
100	256QAM	1	1	19.02	19.03	19.03	20.0	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	24.5	0.0
90	QPSK	1	1	23.13	23.09	23.13		
Channel				507204	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	24.5	0.0
80	QPSK	1	1	23.11	23.09	23.10		
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	24.5	0.0
70	QPSK	1	1	23.09	23.04	23.08		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98	24.5	0.0
60	QPSK	1	1	23.12	23.05	23.07		
Channel				504204	518598	532996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	24.5	0.0
50	QPSK	1	1	23.02	23.13	23.15		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	24.5	0.0
40	QPSK	1	1	23.08	23.09	23.07		
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	24.5	0.0
30	QPSK	1	1	23.05	23.15	23.09		
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	24.5	0.0
20	QPSK	1	1	23.08	23.11	23.05		



n5 Ant1 Default DFT-15								
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				166300	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	25.01	24.94	24.97	25.7	0.0
20	PI/2 BPSK	1	53	24.91	24.96	24.94		
20	PI/2 BPSK	1	104	24.76	24.83	24.75		
20	PI/2 BPSK	50	0	24.36	24.32	24.27	25.2	0.5
20	PI/2 BPSK	50	28	24.62	24.67	24.96	25.7	0.0
20	PI/2 BPSK	50	56	24.31	24.25	24.31	25.2	0.5
20	PI/2 BPSK	100	0	24.30	24.32	24.44		
20	QPSK	1	1	24.90	25.04	24.97	25.7	0.0
20	QPSK	1	53	24.91	24.84	24.82		
20	QPSK	1	104	24.79	24.72	24.64		
20	QPSK	50	0	23.94	23.97	23.97	24.7	1.0
20	QPSK	50	28	24.67	24.95	24.83	25.7	0.0
20	QPSK	50	56	23.75	23.84	23.77	24.7	1.0
20	QPSK	100	0	23.89	23.95	23.93		
20	16QAM	1	1	24.06	24.07	23.99	24.7	1.0
20	64QAM	1	1	22.44	22.40	22.50	23.2	2.5
20	256QAM	1	1	20.24	20.24	20.15	21.2	4.5
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	24.93	24.83	24.88	25.7	0.0
Channel				165900	167300	168300	Tune-up limit	MPR
Frequency (MHz)				839	836.5	844	(dBm)	(dB)
10	QPSK	1	1	24.78	24.85	24.92	25.7	0.0
Channel				165300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	24.82	24.83	24.79	25.7	0.0



n7 Ant3 Default DFT-15								
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	PI/2 BPSK	1	1	23.07	23.18	23.19	24.0	0.0
40	PI/2 BPSK	1	108	23.05	23.15	23.13		
40	PI/2 BPSK	1	214	22.96	23.06	22.97		
40	PI/2 BPSK	108	0	22.56	22.66	22.54	23.5	0.5
40	PI/2 BPSK	108	54	23.07	23.15	23.11	24.0	0.0
40	PI/2 BPSK	108	108	22.58	22.66	22.71	23.5	0.5
40	PI/2 BPSK	216	0	22.49	22.56	22.49		
40	QPSK	1	1	23.18	23.20	23.19	24.0	0.0
40	QPSK	1	108	23.09	23.16	23.13		
40	QPSK	1	214	23.16	23.11	23.01		
40	QPSK	108	0	22.20	22.10	22.06	23.0	1.0
40	QPSK	108	54	23.03	23.13	23.11	24.0	0.0
40	QPSK	108	108	22.13	22.08	22.06	23.0	1.0
40	QPSK	216	0	21.99	22.09	22.05		
40	16QAM	1	1	22.34	22.42	22.34	23.0	1.0
40	64QAM	1	1	20.79	20.75	20.75	21.5	2.5
40	256QAM	1	1	18.74	18.62	18.57	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	24.0	0.0
30	PI/2 BPSK	1	1	22.92	23.00	23.10	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	24.0	0.0
25	PI/2 BPSK	1	1	22.97	23.18	23.00	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	24.0	0.0
20	QPSK	1	1	22.94	23.00	23.01	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0
15	QPSK	1	1	22.92	23.11	23.04	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	24.0	0.0
10	QPSK	1	1	22.92	23.05	23.08	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0
5	QPSK	1	1	22.99	23.13	23.18	24.0	0.0

n66 Ant3 Default DFT-15								
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		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	22.74	22.78	22.81	24.0	0.0
40	PI/2 BPSK	1	108	22.64	22.73	22.67		
40	PI/2 BPSK	1	214	22.76	22.72	22.77		
40	PI/2 BPSK	108	0	22.06	22.16	22.19	23.5	0.5
40	PI/2 BPSK	108	54	22.81	22.69	22.70	24.0	0.0
40	PI/2 BPSK	108	108	22.13	22.17	22.25	23.5	0.5
40	PI/2 BPSK	216	0	22.28	22.28	22.40		
40	QPSK	1	1	22.80	22.82	22.73	24.0	0.0
40	QPSK	1	108	22.78	22.76	22.66		
40	QPSK	1	214	22.71	22.79	22.70		
40	QPSK	108	0	21.79	21.76	21.66	23.0	1.0
40	QPSK	108	54	22.61	22.70	22.68	24.0	0.0
40	QPSK	108	108	21.73	21.73	21.82	23.0	1.0
40	QPSK	216	0	21.75	21.80	21.72		
40	16QAM	1	1	22.05	22.01	21.96	23.0	1.0
40	64QAM	1	1	20.45	20.45	20.35	21.5	2.5
40	256QAM	1	1	18.28	18.20	18.13	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	24.0	0.0
30	PI/2 BPSK	1	1	22.71	22.75	22.84	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	22.68	22.73	22.70	24.0	0.0
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0
15	QPSK	1	1	22.63	22.63	22.68	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	22.71	22.88	22.70	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	22.54	22.79	22.84	24.0	0.0



n38 Ant3 Default DFT-30								
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	PI/2 BPSK	1	1	22.94	22.97	22.83		
40	PI/2 BPSK	1	53	22.74	22.92	22.71	24.0	0.0
40	PI/2 BPSK	1	104	22.81	22.96	22.91		
40	PI/2 BPSK	50	0	22.35	22.42	22.34	23.5	0.5
40	PI/2 BPSK	50	28	22.71	22.84	22.73	24.0	0.0
40	PI/2 BPSK	50	56	22.27	22.41	22.22		
40	PI/2 BPSK	100	0	22.29	22.39	22.18	23.5	0.5
40	QPSK	1	1	22.96	22.98	22.85		
40	QPSK	1	53	22.81	22.96	22.76	24.0	0.0
40	QPSK	1	104	22.86	22.97	22.97		
40	QPSK	50	0	21.82	21.91	21.91	23.0	1.0
40	QPSK	50	28	22.81	22.87	22.82	24.0	0.0
40	QPSK	50	56	21.97	21.99	21.95		
40	QPSK	100	0	21.66	21.87	21.74	23.0	1.0
40	16QAM	1	1	21.81	21.93	21.75	23.0	1.0
40	64QAM	1	1	20.43	20.54	20.33	21.5	2.5
40	256QAM	1	1	18.30	18.51	18.36	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	22.81	22.85	22.97	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.87	22.88	22.79	24.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	22.12	22.25	22.23	24.0	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	22.17	22.23	22.17	24.0	0.0

n41 Ant3 Default DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.96	22.88	22.86		
100	PI/2 BPSK	1	137	22.79	22.84	22.72	24.0	0.0
100	PI/2 BPSK	1	271	22.94	22.86	22.83		
100	PI/2 BPSK	135	0	22.13	22.25	22.25	23.5	0.5
100	PI/2 BPSK	135	69	22.86	22.84	22.90	24.0	0.0
100	PI/2 BPSK	135	138	22.63	22.71	22.73		
100	PI/2 BPSK	270	0	22.31	22.38	22.29	23.5	0.5
100	QPSK	1	1	22.88	22.99	22.94		
100	QPSK	1	137	22.82	22.86	22.86	24.0	0.0
100	QPSK	1	271	22.49	22.50	22.53		
100	QPSK	135	0	21.68	21.86	21.77	23.0	1.0
100	QPSK	135	69	22.88	22.97	22.86	24.0	0.0
100	QPSK	135	138	21.87	21.84	21.89		
100	QPSK	270	0	21.73	21.85	21.84	23.0	1.0
100	16QAM	1	1	21.86	21.89	21.93	23.0	1.0
100	64QAM	1	1	20.09	20.13	20.11	21.5	2.5
100	256QAM	1	1	18.44	18.53	18.44	19.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.88	22.77	22.74	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.98	22.86	22.68	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.90	22.79	22.83	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.78	22.83	22.67	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.77	22.79	22.68	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.82	22.86	22.77	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.01	22.80	22.68	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.77	22.71	22.66	24.0	0.0



n7 Ant4 Default DFT-15								
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	PI/2 BPSK	1	1	25.36	25.24	25.27	25.5	0.0
40	PI/2 BPSK	1	108	25.23	25.24	25.22		
40	PI/2 BPSK	1	214	25.20	25.23	25.16		
40	PI/2 BPSK	108	0	24.75	24.77	24.81		
40	PI/2 BPSK	108	54	25.26	25.32	25.24	25.5	0.0
40	PI/2 BPSK	108	108	24.75	24.79	24.72	25.0	0.5
40	PI/2 BPSK	216	0	24.79	24.75	24.75		
40	QPSK	1	1	25.12	25.37	25.34	25.5	0.0
40	QPSK	1	108	25.18	25.20	25.30		
40	QPSK	1	214	25.30	25.18	25.18		
40	QPSK	108	0	24.13	24.20	24.08	24.5	1.0
40	QPSK	108	54	25.24	25.27	25.26	25.5	0.0
40	QPSK	108	108	24.36	24.25	24.15	24.5	1.0
40	QPSK	216	0	24.14	24.22	24.18		
40	16QAM	1	1	24.46	24.42	24.33	24.5	1.0
40	64QAM	1	1	22.91	22.88	22.98	23.0	2.5
40	256QAM	1	1	20.92	20.86	20.78	21.0	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	25.15	25.06	25.09	25.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	25.10	25.21	25.13	25.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	25.25	25.09	25.16	25.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	25.21	25.04	25.24	25.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	25.32	25.22	25.11	25.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	25.22	25.21	25.12	25.5	0.0

n66 Ant4 Default DFT-15								
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		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	24.38	24.49	24.41	25.5	0.0
40	PI/2 BPSK	1	108	24.50	24.51	24.65		
40	PI/2 BPSK	1	214	24.54	24.60	24.65		
40	PI/2 BPSK	108	0	24.06	24.09	23.97		
40	PI/2 BPSK	108	54	24.61	24.65	24.59	25.5	0.0
40	PI/2 BPSK	108	108	24.18	24.09	24.12	25.0	0.5
40	PI/2 BPSK	216	0	24.18	24.17	24.12		
40	QPSK	1	1	24.65	24.66	24.55	25.5	0.0
40	QPSK	1	108	24.64	24.60	24.61		
40	QPSK	1	214	24.35	24.46	24.45		
40	QPSK	108	0	23.65	23.57	23.62	24.5	1.0
40	QPSK	108	54	24.62	24.64	24.59	25.5	0.0
40	QPSK	108	108	23.60	23.62	23.59	24.5	1.0
40	QPSK	216	0	23.58	23.68	23.60		
40	16QAM	1	1	24.00	23.94	24.00	24.5	1.0
40	64QAM	1	1	22.19	22.14	22.12	23.0	2.5
40	256QAM	1	1	20.17	20.12	20.16	21.0	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	24.28	24.37	24.20	25.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	24.24	24.37	24.20	25.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	24.28	24.43	24.26	25.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	24.28	24.30	24.24	25.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	24.27	24.36	24.30	25.5	0.0



n38 Ant4 Default DFT-30								
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	PI/2 BPSK	1	1	24.80	24.52	24.42		
40	PI/2 BPSK	1	53	24.49	24.60	24.49	25.5	0.0
40	PI/2 BPSK	1	104	24.51	24.57	24.53		
40	PI/2 BPSK	50	0	24.18	24.16	24.25	25.0	0.5
40	PI/2 BPSK	50	28	24.61	24.58	24.66	25.5	0.0
40	PI/2 BPSK	50	56	24.03	24.11	24.11		
40	PI/2 BPSK	100	0	24.02	24.10	24.01	25.0	0.5
40	QPSK	1	1	24.51	24.66	24.63		
40	QPSK	1	53	24.61	24.58	24.65	25.5	0.0
40	QPSK	1	104	24.56	24.63	24.53		
40	QPSK	50	0	23.76	23.67	23.64	24.5	1.0
40	QPSK	50	28	24.59	24.67	24.60	25.5	0.0
40	QPSK	50	56	23.65	23.76	23.83	24.5	1.0
40	QPSK	100	0	23.84	23.99	23.91		
40	16QAM	1	1	23.23	23.26	23.30	24.5	1.0
40	64QAM	1	1	21.89	21.92	22.01	23.0	2.5
40	256QAM	1	1	20.17	20.07	20.00	21.0	4.5
Channel				517092	518000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	24.62	24.52	24.55	25.5	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	24.61	24.46	24.47	25.5	0.0
Channel				515592	518000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	24.13	24.26	24.16	25.5	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	24.04	24.23	24.20	25.5	0.0

n41 Ant4 Default DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	24.71	24.62	24.73		
100	PI/2 BPSK	1	137	24.89	24.90	24.85	25.5	0.0
100	PI/2 BPSK	1	271	24.76	24.85	24.89		
100	PI/2 BPSK	135	0	24.11	24.12	24.00	25.0	0.5
100	PI/2 BPSK	135	69	24.86	24.84	24.82	25.5	0.0
100	PI/2 BPSK	135	138	24.51	24.48	24.45		
100	PI/2 BPSK	270	0	24.41	24.41	24.38	25.0	0.5
100	QPSK	1	1	24.81	24.92	24.79		
100	QPSK	1	137	24.76	24.75	24.66	25.5	0.0
100	QPSK	1	271	24.81	24.80	24.78		
100	QPSK	135	0	23.91	24.01	24.11	24.5	1.0
100	QPSK	135	69	24.83	24.87	24.68	25.5	0.0
100	QPSK	135	138	24.06	24.03	23.96		
100	QPSK	270	0	23.88	23.96	23.92	24.5	1.0
100	16QAM	1	1	23.88	23.91	23.86	24.5	1.0
100	64QAM	1	1	22.59	22.53	22.47	23.0	2.5
100	256QAM	1	1	20.32	20.35	20.43	21.0	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	24.78	24.51	24.83	25.5	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	24.67	24.72	24.74	25.5	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	24.72	24.65	24.71	25.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	24.59	24.50	24.65	25.5	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	24.80	24.60	24.61	25.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	24.82	24.68	24.61	25.5	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	24.76	24.59	24.82	25.5	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	24.66	24.51	24.76	25.5	0.0



n7 Ant5 Default DFT-15								
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	PI/2 BPSK	1	1	21.64	21.65	21.58		
40	PI/2 BPSK	1	108	21.56	21.60	21.63	23.0	0.0
40	PI/2 BPSK	1	214	21.60	21.58	21.51		
40	PI/2 BPSK	108	0	21.10	21.05	21.01	22.5	0.5
40	PI/2 BPSK	108	54	21.54	21.53	21.58	23.0	0.0
40	PI/2 BPSK	108	108	21.14	21.07	21.06		
40	PI/2 BPSK	216	0	20.95	21.05	21.02	22.5	0.5
40	QPSK	1	1	21.64	21.68	21.55		
40	QPSK	1	108	21.67	21.58	21.60	23.0	0.0
40	QPSK	1	214	21.43	21.52	21.62		
40	QPSK	108	0	20.62	20.55	20.61	22.0	1.0
40	QPSK	108	54	21.48	21.49	21.40	23.0	0.0
40	QPSK	108	108	20.50	20.57	20.58	22.0	1.0
40	QPSK	216	0	20.46	20.65	20.58		
40	16QAM	1	1	20.78	20.89	20.91	22.0	1.0
40	64QAM	1	1	19.35	19.34	19.39	20.5	2.5
40	256QAM	1	1	19.35	19.33	19.42	18.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	23.0	0.0
30	QPSK	1	1	21.60	21.49	21.45		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	23.0	0.0
25	QPSK	1	1	21.43	21.65	21.43		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	23.0	0.0
20	QPSK	1	1	21.62	21.47	21.43		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	23.0	0.0
15	QPSK	1	1	21.48	21.64	21.39		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	23.0	0.0
10	QPSK	1	1	21.64	21.61	21.43		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	23.0	0.0
5	QPSK	1	1	21.44	21.63	21.55		

n66 Ant5 Default DFT-15								
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		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	21.61	21.73	21.75		
40	PI/2 BPSK	1	108	21.77	21.75	21.67	23.0	0.0
40	PI/2 BPSK	1	214	21.60	21.72	21.64		
40	PI/2 BPSK	108	0	21.32	21.25	21.33	22.5	0.5
40	PI/2 BPSK	108	54	21.71	21.67	21.59	23.0	0.0
40	PI/2 BPSK	108	108	21.13	21.22	21.28		
40	PI/2 BPSK	216	0	21.28	21.24	21.20	22.5	0.5
40	QPSK	1	1	21.60	21.78	21.72		
40	QPSK	1	108	21.73	21.74	21.66	23.0	0.0
40	QPSK	1	214	21.71	21.76	21.75		
40	QPSK	108	0	20.86	20.77	20.86	22.0	1.0
40	QPSK	108	54	21.57	21.68	21.59	23.0	0.0
40	QPSK	108	108	20.76	20.74	20.64	22.0	1.0
40	QPSK	216	0	20.72	20.79	20.67		
40	16QAM	1	1	20.87	20.90	20.95	22.0	1.0
40	64QAM	1	1	19.45	19.35	19.29	20.5	2.5
40	256QAM	1	1	19.34	19.39	19.40	18.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	23.0	0.0
30	QPSK	1	1	21.54	21.55	21.71		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	23.0	0.0
20	QPSK	1	1	21.57	21.62	21.68		
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	23.0	0.0
15	QPSK	1	1	21.58	21.61	21.66		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	23.0	0.0
10	QPSK	1	1	21.46	21.80	21.76		
Channel				342000	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	23.0	0.0
5	QPSK	1	1	21.59	21.71	21.76		



n38 Ant5 Default DFT-30								
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	PI/2 BPSK	1	1	24.59	24.57	24.63		
40	PI/2 BPSK	1	53	24.55	24.53	24.46	25.7	0.0
40	PI/2 BPSK	1	104	24.61	24.63	24.52		
40	PI/2 BPSK	50	0	23.90	24.02	23.93	25.2	0.5
40	PI/2 BPSK	50	28	24.53	24.48	24.38	25.7	0.0
40	PI/2 BPSK	50	56	24.09	24.10	24.12	25.2	0.5
40	PI/2 BPSK	100	0	24.10	23.98	23.90		
40	QPSK	1	1	24.57	24.65	24.61		
40	QPSK	1	53	24.50	24.56	24.48	25.7	0.0
40	QPSK	1	104	24.58	24.60	24.58		
40	QPSK	50	0	23.55	23.53	23.50	24.7	1.0
40	QPSK	50	28	24.40	24.45	24.42	25.7	0.0
40	QPSK	50	56	23.57	23.58	23.47	24.7	1.0
40	QPSK	100	0	23.37	23.47	23.37		
40	16QAM	1	1	23.95	23.87	23.93	24.7	1.0
40	64QAM	1	1	22.25	22.27	22.16	23.2	2.5
40	256QAM	1	1	19.89	20.03	19.97	21.2	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	24.42	24.43	24.43	25.7	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	24.45	24.48	24.45	25.7	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	24.42	24.55	24.60	25.7	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	24.45	24.44	24.50	25.7	0.0

n41 Ant5 Default DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	24.56	24.60	24.65		
100	PI/2 BPSK	1	137	24.56	24.56	24.63	25.7	0.0
100	PI/2 BPSK	1	271	24.51	24.51	24.52		
100	PI/2 BPSK	135	0	23.87	23.99	24.06	25.2	0.5
100	PI/2 BPSK	135	69	24.65	24.54	24.50	25.7	0.0
100	PI/2 BPSK	135	138	24.01	24.04	24.15	25.2	0.5
100	PI/2 BPSK	270	0	23.85	23.94	23.95		
100	QPSK	1	1	24.62	24.69	24.67		
100	QPSK	1	137	24.53	24.58	24.62	25.7	0.0
100	QPSK	1	271	24.65	24.65	24.57		
100	QPSK	135	0	23.44	23.49	23.41	24.7	1.0
100	QPSK	135	69	24.38	24.48	24.45	25.7	0.0
100	QPSK	135	138	23.56	23.57	23.58	24.7	1.0
100	QPSK	270	0	23.45	23.51	23.36		
100	16QAM	1	1	23.72	23.78	23.87	24.7	1.0
100	64QAM	1	1	22.16	22.17	22.09	23.2	2.5
100	256QAM	1	1	20.08	19.97	20.06	21.2	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	24.46	24.57	24.48	25.7	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	24.38	24.41	24.63	25.7	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	24.42	24.54	24.44	25.7	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	24.45	24.52	24.51	25.7	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	24.42	24.55	24.64	25.7	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	24.48	24.49	24.56	25.7	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	24.45	24.44	24.50	25.7	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	24.42	24.40	24.64	25.7	0.0



Par270 n77 Ant10 Default DFT-30

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)				65000	65000	65000		
100	PI2 BPSK	1	1	24.81	24.93	24.85		
100	PI2 BPSK	1	137	24.92	24.98	24.87		0.0
100	PI2 BPSK	1	271	24.86	24.89	24.91		
100	PI2 BPSK	135	0	24.24	24.35	24.31	25.2	0.5
100	PI2 BPSK	135	69	24.93	24.90	24.86	25.7	0.0
100	PI2 BPSK	135	138	24.27	24.28	24.36		0.5
100	PI2 BPSK	270	0	24.25	24.35	24.30		
100	QPSK	1	1	24.94	25.02	24.92		
100	QPSK	1	137	24.81	24.87	24.76		0.0
100	QPSK	1	271	24.72	24.72	24.67		
100	QPSK	135	0	23.70	23.77	23.84	24.7	1.0
100	QPSK	135	69	24.78	24.80	24.73	25.7	0.0
100	QPSK	135	138	23.86	23.73	23.65		
100	QPSK	270	0	23.77	23.87	23.80	24.7	1.0
100	16QAM	1	1	23.90	23.91	23.86	24.7	1.0
100	64QAM	1	1	22.12	22.09	22.18	23.2	2.5
100	256QAM	1	1	20.20	20.21	20.13	21.2	4.5
Channel								
Frequency (MHz)				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3745.02	3840	3935.01	25.7	0.0
Channel								
Frequency (MHz)				64900	65000	65000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3940.02	25.7	0.0
Channel								
Frequency (MHz)				64900	65000	65000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	24.74	24.72	24.80	25.7	0.0
Channel								
Frequency (MHz)				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3730.02	3840	3950.01	25.7	0.0
Channel								
Frequency (MHz)				64800	65000	65000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	24.64	24.85	24.76	25.7	0.0
Channel								
Frequency (MHz)				64800	65000	65000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	24.68	24.89	24.83	25.7	0.0
Channel								
Frequency (MHz)				64768	65000	65034	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3715.02	3840	3965.01	25.7	0.0
Channel								
Frequency (MHz)				64700	65000	65000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	24.68	24.81	24.81	25.7	0.0
Channel								
Frequency (MHz)				64716	65000	65034	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3702.50	3840	3972.51	25.7	0.0
Channel								
Frequency (MHz)				64700	65000	65000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	24.53	24.33	24.42	25.7	0.0

Par27Q n77 Ant10 Default DFT-30

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)				63000	63334	63500		
100	PI2 BPSK	1	1	24.75	24.75	24.75		
100	PI2 BPSK	1	137	25.05	25.05	25.05	25.7	0.0
100	PI2 BPSK	1	271	24.92	24.92	24.92		
100	PI2 BPSK	135	0	24.43	24.43	24.43	25.2	0.5
100	PI2 BPSK	135	69	25.00	25.00	25.00	25.2	0.0
100	PI2 BPSK	135	138	24.32	24.32	24.32		
100	PI2 BPSK	270	0	24.37	24.37	24.37	25.7	0.5
100	QPSK	1	1	25.13	25.13	25.13		
100	QPSK	1	137	24.79	24.79	24.79	25.7	0.0
100	QPSK	1	271	24.53	24.53	24.53		
100	QPSK	135	0	23.82	23.82	23.82	24.7	0.0
100	QPSK	135	69	24.77	24.77	24.77		
100	QPSK	135	138	23.91	23.91	23.91		
100	QPSK	270	0	23.85	23.85	23.85	25.7	1.0
100	16QAM	1	1	23.71	23.71	23.71	24.7	1.0
100	64QAM	1	1	22.16	22.16	22.16	23.2	2.5
100	256QAM	1	1	20.27	20.27	20.27	21.2	4.5
Channel								
Frequency (MHz)				63000	63334	63500	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3495	3500.01	3505.02	25.7	0.0
Channel								
Frequency (MHz)				62968	63334	63500	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3490.02	3500.01	3510	25.7	0.0
Channel								
Frequency (MHz)				62900	63334	63434	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	24.51	25.07	24.69	25.7	0.0
Channel								
Frequency (MHz)				62868	63334	63500	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3485.01	3500.01	3515.01	25.7	0.0
Channel								
Frequency (MHz)				62800	63334	63500	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	24.67	24.99	24.86	25.7	0.0
Channel								
Frequency (MHz)				62734	63334	63534	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3478.01	3500.01	3533.01	25.7	0.0
Channel								
Frequency (MHz)				62700	63334	63500	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	24.57	24.97	24.73	25.7	0.0
Channel								
Frequency (MHz)				62634	63334	63568	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3465	3500.01	3535.02	25.7	0.0
Channel								
Frequency (MHz)				62600	63334	63500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	24.77	24.81	24.79	25.7	0.0
Channel								
Frequency (MHz)				62534	63334	63500	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3455.01	3500.01	3545.01	25.7	0.0

Par270 n78 Ant10 Default PC3 DFT-30

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)				65000	65000	65000		
100	PI2 BPSK	1	1	25.11	25.11	25.11		
100	PI2 BPSK	1	137	25.13	25.13	25.13	25.7	0.0
100	PI2 BPSK	1	271	25.08	25.08	25.08		
100	PI2 BPSK	135	0	25.23	25.23	25.23	26.2	0.5
100	PI2 BPSK	135	69	25.26	25.26	25.26	25.7	0.0
100	PI2 BPSK	135	138	25.11	25.11	25.11		0.5
100	PI2 BPSK	270	0	25.01	25.01	25.01	25.2	0.0
100	QPSK	1	1	25.33	25.33	25.33		
100	QPSK	1	137	25.30	25.30	25.30	25.7	0.0
100	QPSK	1	271	25.08	25.08	25.08		
100	QPSK	135	0	25.03	25.03	25.03	24.7	1.0
100	QPSK	135	69	25.10	25.10	25.10	25.7	0.0
100	QPSK	135	138	25.09	25.09	25.09		
100	QPSK	270	0	25.13	25.13	25.13	24.7	1.0
100	16QAM	1	1	24.38	24.38	24.38	24.7	1.0
100	64QAM	1	1	22.86	22.86	22.86	23.2	2.5
100	256QAM	1	1	20.78	20.78	20.78	21.2	4.5
Channel								
Frequency (MHz)				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3745.02	3750	3755.01	25.7	0.0
Channel								
Frequency (MHz)				64900	65000	65000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.27	25.03	25.14	25.7	0.0
Channel								
Frequency (MHz)				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.14	25.02	25.03	25.7	0.0
Channel								
Frequency (MHz)				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3730.02	3750	3770.01	25.7	0.0
Channel								
Frequency (MHz)				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.28	25.12	25.00	25.7	0.0
Channel								
Frequency (MHz)				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.17	25.07	25.00	25.7	0.0
Channel								
Frequency (MHz)				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3715.02	3750	3785.01	25.7	0.0
Channel								
Frequency (MHz)				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.12	25.14	25.04	25.7	0.0
Channel								
Frequency (MHz)				64716	65000	65284	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3702.50	3750	3782.51	25.7	0.0
Channel								
Frequency (MHz)				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	24.22	24.29	24.35	25.7	0.0



Part27Q n78 Ant10 Default PC3 DFT-30									
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				633334			3500.01		
Frequency (MHz)									
100	PI2 BPSK	1	1	2474					
100	PI2 BPSK	1	137	2475			25.7	0.0	
100	PI2 BPSK	1	271	2497					
100	PI2 BPSK	135	0	2476			25.2	0.5	
100	PI2 BPSK	135	69	2497			25.7	0.0	
100	PI2 BPSK	135	138	2479			25.2	0.5	
100	PI2 BPSK	270	0	2477					
100	QPSK	1	1	3508					
100	QPSK	1	137	2501			25.7	0.0	
100	QPSK	1	271	2477					
100	QPSK	135	0	2458			24.7	1.0	
100	QPSK	135	69	2476			25.7	0.0	
100	QPSK	135	138	2471			24.7	1.0	
100	QPSK	270	0	2491					
100	16QAM	1	1	2401			24.7	1.0	
100	16QAM	1	1	2244			23.2	2.5	
100	256QAM	1	1	2044			21.2	4.5	
Channel				633000			3500.01		
Frequency (MHz)									
90	QPSK	1	1	2460	2473	2474	25.7	0.0	
Channel				633000			3500.01		
Frequency (MHz)									
80	QPSK	1	1	2484	2481	2454	25.7	0.0	
Channel				633000			3500.01		
Frequency (MHz)									
70	QPSK	1	1	2470	2481	2474	25.7	0.0	
Channel				633000			3500.01		
Frequency (MHz)									
60	QPSK	1	1	2476	2482	2489	25.7	0.0	
Channel				631000			3500.01		
Frequency (MHz)									
50	QPSK	1	1	2477	2485	2453	25.7	0.0	
Channel				631000			3500.01		
Frequency (MHz)									
40	QPSK	1	1	2482	2498	2472	25.7	0.0	
Channel				631000			3500.01		
Frequency (MHz)									
30	QPSK	1	1	2471	2488	2482	25.7	0.0	
Channel				630000			3500.01		
Frequency (MHz)									
20	QPSK	1	1	2473	2453	2486	25.7	0.0	
Channel				630000			3500.01		
Frequency (MHz)									
15	QPSK	1	1	2497	2518	2507	25.7	0.0	
Channel				630334			3500.01		
Frequency (MHz)									
10	QPSK	1	1	2512	2530	2520	25.7	0.0	

Part27Q n78 Ant10 Default PC2 DFT-30									
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			3750		
Frequency (MHz)									
100	PI2 BPSK	1	1	2629					
100	PI2 BPSK	1	137	2622			27.0	0.0	
100	PI2 BPSK	1	271	2607					
100	PI2 BPSK	135	0	2620			26.5	0.5	
100	PI2 BPSK	135	69	2629			27.0	0.0	
100	PI2 BPSK	135	138	2631			26.5	0.5	
100	PI2 BPSK	270	0	2609					
100	QPSK	1	1	3634					
100	QPSK	1	137	2623			27.0	0.0	
100	QPSK	1	271	2631					
100	QPSK	135	0	2620			26.0	1.0	
100	QPSK	135	69	2622			27.0	0.0	
100	QPSK	135	138	2610			26.0	1.0	
100	QPSK	270	0	2610					
100	16QAM	1	1	2527			26.0	1.0	
100	16QAM	1	1	2393			24.5	2.5	
100	256QAM	1	1	2188			22.5	4.5	
Channel				650000			650334		
Frequency (MHz)									
90	QPSK	1	1	2618	2632	2593	27.0	0.0	
Channel				650000			650000		
Frequency (MHz)									
80	QPSK	1	1	2611	2625	2598	27.0	0.0	
Channel				649800			651000		
Frequency (MHz)									
70	QPSK	1	1	2621	2625	2611	27.0	0.0	
Channel				649800			650000		
Frequency (MHz)									
60	QPSK	1	1	2618	2615	2593	27.0	0.0	
Channel				649800			650000		
Frequency (MHz)									
50	QPSK	1	1	2625	2615	2605	27.0	0.0	
Channel				649800			652000		
Frequency (MHz)									
40	QPSK	1	1	2627	2613	2591	27.0	0.0	
Channel				647888			652334		
Frequency (MHz)									
30	QPSK	1	1	2608	2623	2609	27.0	0.0	
Channel				647888			650000		
Frequency (MHz)									
20	QPSK	1	1	2607	2616	2609	27.0	0.0	
Channel				647888			650000		
Frequency (MHz)									
15	QPSK	1	1	2591	2594	2603	27.0	0.0	
Channel				647000			653000		
Frequency (MHz)									
10	QPSK	1	1	2603	2593	2601	27.0	0.0	

Part27Q n78 Ant10 Default PC2 DFT-30									
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				633334			3500.01		
Frequency (MHz)									
100	PI2 BPSK	1	1	2591					
100	PI2 BPSK	1	137	2600			27.0	0.0	
100	PI2 BPSK	1	271	2591					
100	PI2 BPSK	135	0	2591			26.5	0.5	
100	PI2 BPSK	135	69	2599			27.0	0.0	
100	PI2 BPSK	135	138	2593			26.5	0.5	
100	PI2 BPSK	270	0	2592					
100	QPSK	1	1	3614					
100	QPSK	1	137	2611			27.0	0.0	
100	QPSK	1	271	2596					
100	QPSK	135	0	2590			26.0	1.0	
100	QPSK	135	69	2590			27.0	0.0	
100	QPSK	135	138	2582			26.0	1.0	
100	QPSK	270	0	2588					
100	16QAM	1	1	2507			26.0	1.0	
100	16QAM	1	1	2383			24.5	2.5	
100	256QAM	1	1	2181			22.5	4.5	
Channel				633000			3500.01		
Frequency (MHz)									
90	QPSK	1	1	2607	2600	2570	27.0	0.0	
Channel				633000			3500.01		
Frequency (MHz)									
80	QPSK	1	1	2588	2604	2578	27.0	0.0	
Channel				632000			3500.01		
Frequency (MHz)									
70	QPSK	1	1	2606	2615	2590	27.0	0.0	
Channel				632000			3500.01		
Frequency (MHz)									
60	QPSK	1	1	2608	2609	2579	27.0	0.0	
Channel				631000			3500.01		
Frequency (MHz)									
50	QPSK	1	1	2592	2610	2587	27.0	0.0	
Channel				631000			3500.01		
Frequency (MHz)									
40	QPSK	1	1	2597	2606	2589	27.0	0.0	
Channel				631000			3500.01		
Frequency (MHz)									
30	QPSK	1	1	2603	2608	2586	27.0	0.0	
Channel				630000			3500.01		
Frequency (MHz)									
20	QPSK	1	1	2591	2599	2585	27.0	0.0	
Channel				630000			3500.01		
Frequency (MHz)									
15	QPSK	1	1	2607	2600	2608	27.0	0.0	
Channel				630334			3500.01		
Frequency (MHz)									
10	QPSK	1	1	2609	2681	2673	27.0	0.0	



Par270 n77 Ant11 Default DFT-30

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)				65000	65000	65000		
100	PI2 BPSK	1	1	25.06	25.13	25.14		
100	PI2 BPSK	1	137	25.14	25.28	25.21		0.0
100	PI2 BPSK	1	271	25.19	25.12	25.16		
100	PI2 BPSK	135	0	24.77	24.66	24.60	25.2	0.5
100	PI2 BPSK	135	69	25.07	25.23	25.17	25.7	0.0
100	PI2 BPSK	135	138	24.50	24.58	24.67		0.5
100	PI2 BPSK	270	0	24.65	24.63	24.62		
100	QPSK	1	1	25.15	25.41	25.09		
100	QPSK	1	137	25.20	25.19	25.15	25.7	0.0
100	QPSK	1	271	25.23	25.29	25.28		
100	QPSK	135	0	23.96	24.13	24.28	24.7	1.0
100	QPSK	135	69	25.10	25.20	25.05	25.7	0.0
100	QPSK	135	138	24.20	24.07	24.13	24.7	1.0
100	QPSK	270	0	23.87	23.99	23.86		
100	16QAM	1	1	24.38	24.32	24.25	24.7	1.0
100	64QAM	1	1	22.96	22.89	22.97	23.2	2.5
100	256QAM	1	1	20.59	20.58	20.64	21.2	4.5
Channel								
Frequency (MHz)				64968	65000	65234	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	25.04	25.25	25.08	25.7	0.0
Channel				64934	65000	65208	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	24.87	25.09	25.11	25.7	0.0
Channel				64900	65000	66300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725	3840	3945		
70	QPSK	1	1	24.98	24.96	24.98	25.7	0.0
Channel				64868	65000	66334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	25.10	25.26	24.59	25.7	0.0
Channel				64834	65000	66300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	25.18	25.07	25.19	25.7	0.0
Channel				64800	65000	66400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3950		
40	QPSK	1	1	24.97	25.04	25.14	25.7	0.0
Channel				64768	65000	66434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	25.12	24.92	25.04	25.7	0.0
Channel				64734	65000	66400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	25.00	25.08	24.92	25.7	0.0
Channel				64700	65000	66434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.50	3840	3972.51		
15	QPSK	1	1	24.43	24.53	24.43	25.7	0.0
Channel				64700	65000	66500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	24.53	24.33	24.42	25.7	0.0

Part27Q n77 Ant11 Default DFT-30

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)				63000	63334	63500		
100	PI2 BPSK	1	1	25.03	25.14	25.14		
100	PI2 BPSK	1	137	25.23	25.23	25.23	25.7	0.0
100	PI2 BPSK	1	271	25.05	25.05	25.05		
100	PI2 BPSK	135	0	24.83	24.83	24.83	25.2	0.5
100	PI2 BPSK	135	69	25.22	25.22	25.22	25.7	0.0
100	PI2 BPSK	135	138	24.76	24.76	24.76		0.5
100	PI2 BPSK	270	0	24.86	24.86	24.86		
100	QPSK	1	1	25.25	25.25	25.25		
100	QPSK	1	137	25.06	25.06	25.06	25.7	0.0
100	QPSK	1	271	25.16	25.16	25.16		
100	QPSK	135	0	24.10	24.10	24.10	24.7	1.0
100	QPSK	135	69	25.09	25.09	25.09	25.7	0.0
100	QPSK	135	138	24.02	24.02	24.02	24.7	1.0
100	QPSK	270	0	24.01	24.01	24.01		
100	16QAM	1	1	24.50	24.50	24.50	24.7	1.0
100	64QAM	1	1	22.86	22.86	22.86	23.2	2.5
100	256QAM	1	1	20.69	20.69	20.69	21.2	4.5
Channel								
Frequency (MHz)				63000	63334	63568	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	26.12	25.19	25.00	25.7	0.0
Channel				63268	63334	63500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	24.92	24.93	25.07	25.7	0.0
Channel				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	24.97	24.92	25.08	25.7	0.0
Channel				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	26.14	25.17	25.00	25.7	0.0
Channel				63166	63334	63500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	25.07	25.13	25.03	25.7	0.0
Channel				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	24.98	25.04	25.00	25.7	0.0
Channel				63100	63334	63568	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	25.08	24.98	24.92	25.7	0.0
Channel				63068	63334	63500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	24.92	24.96	24.85	25.7	0.0
Channel				63030	63334	63618	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	24.42	24.37	24.24	25.7	0.0
Channel				63034	63334	63634	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	24.44	24.45	24.33	25.7	0.0

Part270 n78 Ant11 Default PC3 DFT-30

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)				65000	65000	65000		
100	PI2 BPSK	1	1	25.24	25.24	25.24		
100	PI2 BPSK	1	137	25.23	25.23	25.23	25.7	0.0
100	PI2 BPSK	1	271	25.33	25.33	25.33		
100	PI2 BPSK	135	0	25.15	25.15	25.15	25.2	0.5
100	PI2 BPSK	135	69	25.22	25.22	25.22	25.7	0.0
100	PI2 BPSK	135	138	25.14	25.14	25.14		0.5
100	PI2 BPSK	270	0	25.08	25.08	25.08		
100	QPSK	1	1	25.34	25.34	25.34		
100	QPSK	1	137	25.23	25.23	25.23	25.7	0.0
100	QPSK	1	271	25.28	25.28	25.28		
100	QPSK	135	0	24.48	24.48	24.48	24.7	1.0
100	QPSK	135	69	25.11	25.11	25.11	25.7	0.0
100	QPSK	135	138	24.67	24.67	24.67	24.7	1.0
100	QPSK	270	0	24.59	24.59	24.59		
100	16QAM	1	1	24.83	24.83	24.83	24.7	1.0
100	64QAM	1	1	23.11	23.11	23.11	23.2	2.5
100	256QAM	1	1	21.11	21.11	21.11	21.2	4.5
Channel								
Frequency (MHz)				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	25.09	25.19	25.47	25.7	0.0
Channel				64934	65000	65058	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	25.06	25.23	25.33	25.7	0.0
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	25.13	25.30	25.18	25.7	0.0
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	25.00	25.12	25.23	25.7	0.0
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	25.21	25.06	25.19	25.7	0.0
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3760		
40	QPSK	1	1	25.01	25.30	25.13	25.7	0.0
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	25.08	25.11	25.09	25.7	0.0
Channel				64734	65000	65300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	25.23	25.25	25.10	25.7	0.0
Channel				64700	65000	65334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.50	3750	3792.51		
15	QPSK	1	1	24.27	24.31	24.30	25.7	0.0
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	24.22	24.29	24.35	25.7	0.0



Part27Q 78 Ant11 Default PC3 DFT-30									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3500.01	3500.01	3500.01			
100	PI2 BPSK	1	1	25.07	25.07	25.07			
100	PI2 BPSK	1	137	25.29	25.29	25.29	25.7	0.0	
100	PI2 BPSK	1	271	25.45	25.45	25.45			
100	PI2 BPSK	135	0	25.20	25.20	25.20	25.2	0.5	
100	PI2 BPSK	135	69	25.02	25.02	25.02	25.7	0.0	
100	PI2 BPSK	135	138	25.15	25.15	25.15	25.2	0.5	
100	PI2 BPSK	270	0	25.18	25.18	25.18			
100	QPSK	1	1	25.49	25.49	25.49			
100	QPSK	1	137	25.47	25.47	25.47	25.7	0.0	
100	QPSK	1	271	25.23	25.23	25.23			
100	QPSK	135	0	24.33	24.33	24.33	24.7	1.0	
100	QPSK	135	69	24.04	24.04	24.04	25.7	0.0	
100	QPSK	135	138	24.82	24.82	24.82	24.7	1.0	
100	QPSK	270	0	24.69	24.69	24.69			
100	16QAM	1	1	24.71	24.71	24.71	24.7	1.0	
100	16QAM	1	1	23.03	23.2	23.2	24.5	2.5	
100	256QAM	1	1	21.14	21.14	21.14	21.2	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.14	25.13	25.31	25.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3500.01	3510	25.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.01	25.29	25.29	25.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	63200	63334	63434	MPR		
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.97	25.21	25.14	25.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63200	63334	63468	MPR		
Channel									
Frequency (MHz)									
80	QPSK	1	1	3480	3500.01	3520.02	25.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63168	63334	63500	MPR		
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.12	25.12	25.13	25.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63134	63334	63534	MPR		
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.97	25.24	25.24	25.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63100	63334	63668	MPR		
Channel									
Frequency (MHz)									
30	QPSK	1	1	3465	3500.01	3535.02	25.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63068	63334	63500	MPR		
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.24	25.18	25.11	25.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63050	63334	63618	MPR		
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.97	25.18	25.07	25.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63034	63334	63634	MPR		
Channel									
Frequency (MHz)									
10	QPSK	1	1	3455.01	3500.01	3545.01	25.7	0.0	

Part27Q n78 Ant11 Default PC2 DFT-30									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	65000	65000	65000			
100	PI2 BPSK	1	1	26.44	26.44	26.44	27.0	0.0	
100	PI2 BPSK	1	137	26.49	26.49	26.49			
100	PI2 BPSK	1	271	26.51	26.51	26.51			
100	PI2 BPSK	135	0	26.28	26.28	26.28	26.5	0.5	
100	PI2 BPSK	135	69	26.53	26.53	26.53	27.0	0.0	
100	PI2 BPSK	135	138	26.53	26.53	26.53	26.5	0.5	
100	PI2 BPSK	270	0	26.46	26.46	26.46			
100	QPSK	1	1	26.50	26.50	26.50			
100	QPSK	1	137	26.48	26.48	26.48	27.0	0.0	
100	QPSK	1	271	26.49	26.49	26.49			
100	QPSK	135	0	25.77	25.77	25.77	26.0	1.0	
100	QPSK	135	69	26.32	26.32	26.32	27.0	0.0	
100	QPSK	135	138	25.91	25.91	25.91	26.0	1.0	
100	QPSK	270	0	25.91	25.91	25.91			
100	16QAM	1	1	26.07	26.07	26.07	26.0	1.0	
100	16QAM	1	1	24.55	24.55	24.5	24.5	2.5	
100	256QAM	1	1	22.34	22.34	22.3	22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	26.24	26.44	26.55	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64900	65000	65100	MPR		
Channel									
Frequency (MHz)									
80	QPSK	1	1	26.32	26.41	26.45	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	64868	65000	65134	MPR		
Channel									
Frequency (MHz)									
70	QPSK	1	1	26.42	26.30	26.86	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64800	65000	65200	MPR		
Channel									
Frequency (MHz)									
60	QPSK	1	1	26.24	26.57	26.51	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64768	65000	65168	MPR		
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.34	26.47	26.59	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64800	65000	65200	MPR		
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.45	26.48	26.53	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	64768	65000	65234	MPR		
Channel									
Frequency (MHz)									
30	QPSK	1	1	26.45	26.40	26.38	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64734	65000	65268	MPR		
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.46	26.47	26.53	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	64700	65000	65300	MPR		
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.81	25.94	26.03	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	64700	65000	65300	MPR		
Channel									
Frequency (MHz)									
10	QPSK	1	1	26.03	25.93	26.01	27.0	0.0	

Part27Q 78 Ant11 Default PC2 DFT-30									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3500.01	3500.01	3500.01			
100	PI2 BPSK	1	1	26.45	26.45	26.45			
100	PI2 BPSK	1	137	26.54	26.54	26.54	27.0	0.0	
100	PI2 BPSK	1	271	26.40	26.40	26.40			
100	PI2 BPSK	135	0	26.20	26.20	26.20	26.5	0.5	
100	PI2 BPSK	135	69	26.33	26.33	26.33	27.0	0.0	
100	PI2 BPSK	135	138	26.31	26.31	26.31	26.5	0.5	
100	PI2 BPSK	270	0	26.16	26.16	26.16			
100	QPSK	1	1	26.59	26.59	26.59			
100	QPSK	1	137	26.34	26.34	26.34	27.0	0.0	
100	QPSK	1	271	26.51	26.51	26.51			
100	QPSK	135	0	25.90	25.90	25.90	26.0	1.0	
100	QPSK	135	69	26.26	26.26	26.26	27.0	0.0	
100	QPSK	135	138	25.79	25.79	25.79	26.0	1.0	
100	QPSK	270	0	25.72	25.72	25.72			
100	16QAM	1	1	26.11	26.11	26.11	26.0	1.0	
100	16QAM	1	1	24.50	24.50	24.5	24.5	2.5	
100	256QAM	1	1	22.16	22.16	22.1	22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	26.18	26.38	26.59	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3500.01	3510	25.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	26.34	26.52	26.59	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	63200	63334	63434	MPR		
Channel									
Frequency (MHz)									
70	QPSK	1	1	26.44	26.31	26.55	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63200	63334	63468	MPR		
Channel									
Frequency (MHz)									
80	QPSK	1	1	3480	3500.01	3520.02	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63168	63334	63500	MPR		
Channel									
Frequency (MHz)									
60	QPSK	1	1	26.26	26.48	26.52	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63134	63334	63534	MPR		
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.29	26.43	26.56	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63100	63334	63668			



Par270 n77 Ant12 Default DFT-30									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.32	24.48	24.51			
100	PI2 BPSK	1	137	24.41	24.36	24.35	25.7	0.0	
100	PI2 BPSK	1	271	24.49	24.41	24.44			
100	PI2 BPSK	135	0	23.78	23.67	23.76	25.2	0.5	
100	PI2 BPSK	135	69	24.20	24.22	24.18	25.7	0.0	
100	PI2 BPSK	135	138	23.73	23.83	23.79			
100	PI2 BPSK	270	0	23.83	23.74	23.88	25.2	0.5	
100	QPSK	1	1	23.31	23.58	24.35			
100	QPSK	1	137	24.44	24.44	24.48	25.7	0.0	
100	QPSK	1	271	24.51	24.54	24.57			
100	QPSK	135	0	23.35	23.28	23.41	24.7	1.0	
100	QPSK	135	69	24.18	23.38	24.34	25.7	0.0	
100	QPSK	135	138	23.19	23.21	23.11			
100	QPSK	270	0	23.23	23.35	23.16	24.7	1.0	
100	16QAM	1	1	23.19	23.22	23.04	24.7	1.0	
100	16QAM	1	1	22.07	21.96	21.81	23.2	2.5	
100	256QAM	1	1	19.90	19.71	19.81	21.2	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.26	24.37	24.33	25.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.33	24.33	24.27	25.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.40	24.43	24.30	25.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.32	24.32	24.30	25.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.31	24.38	24.25	25.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.38	24.21	24.41	25.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.40	24.23	24.51	25.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.42	24.32	24.29	25.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.43	24.53	24.43	25.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.53	24.33	24.42	25.7	0.0	

Part270 n77 Ant12 Default DFT-30									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.45					
100	PI2 BPSK	1	137	24.20			25.7	0.0	
100	PI2 BPSK	1	271	24.48					
100	PI2 BPSK	135	0	23.68					
100	PI2 BPSK	135	69	24.18			25.7	0.0	
100	PI2 BPSK	135	138	23.65					
100	PI2 BPSK	270	0	23.91			25.2	0.5	
100	QPSK	1	1	23.83					
100	QPSK	1	137	24.50			25.7	0.0	
100	QPSK	1	271	24.53					
100	QPSK	135	0	23.20					
100	QPSK	135	69	24.06			25.7	0.0	
100	QPSK	135	138	23.31					
100	QPSK	270	0	23.29			24.7	1.0	
100	16QAM	1	1	23.28			24.7	1.0	
100	16QAM	1	1	21.92			23.2	2.5	
100	256QAM	1	1	19.65			21.2	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.42	24.41	24.30	25.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.40	24.28	24.44	25.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.41	24.34	24.40	25.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.40	24.32	24.43	25.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.30	24.27	24.21	25.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.43	24.23	24.49	25.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.34	24.18	24.43	25.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.28	24.33	24.20	25.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.42	24.37	24.24	25.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.44	24.45	24.33	25.7	0.0	

Part270 n78 Ant12 Default PC3 DFT-30									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.95					
100	PI2 BPSK	1	137	22.91			24.0	0.0	
100	PI2 BPSK	1	271	23.00					
100	PI2 BPSK	135	0	22.53			23.5	0.5	
100	PI2 BPSK	135	69	22.91			24.0	0.0	
100	PI2 BPSK	135	138	22.56					
100	PI2 BPSK	270	0	22.51			23.5	0.5	
100	QPSK	1	1	23.10					
100	QPSK	1	137	22.98			24.0	0.0	
100	QPSK	1	271	23.08					
100	QPSK	135	0	21.94			23.0	1.0	
100	QPSK	135	69	23.05			24.0	0.0	
100	QPSK	135	138	21.94					
100	QPSK	270	0	22.07			23.0	1.0	
100	16QAM	1	1	22.00			23.0	1.0	
100	16QAM	1	1	20.59			21.5	2.5	
100	256QAM	1	1	18.51			19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.00	23.01	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.03	23.00	23.05	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.98	23.03	22.97	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.03	22.98	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.95	22.95	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.04	23.00	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.95	22.94	22.97	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.01	22.97	23.05	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.98	23.03	22.97	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.95	22.95	23.03	24.0	0.0	



Part27Q 78 Ant12 Default PC3 DFT-30

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3500.01	3500.01			
100	PI2 BPSK	1	137	23.01	23.01		24.0	0.0
100	PI2 BPSK	1	271	22.14	22.14			
100	PI2 BPSK	135	0	22.70	22.70			
100	PI2 BPSK	135	69	23.08	23.08		24.0	0.0
100	PI2 BPSK	135	138	22.73	22.73			
100	PI2 BPSK	270	0	22.61	22.61		23.5	0.5
100	QPSK	1	1	3500.01	3500.01			
100	QPSK	1	137	23.15	23.15		24.0	0.0
100	QPSK	1	271	23.26	23.26			
100	QPSK	135	0	22.04	22.04			
100	QPSK	135	69	23.16	23.16		24.0	0.0
100	QPSK	135	138	22.09	22.09			
100	QPSK	270	0	22.25	22.25		23.0	1.0
100	16QAM	1	1	22.19	22.19		23.0	1.0
100	64QAM	1	1	20.80	20.80		21.5	2.5
100	256QAM	1	1	19.82	19.82		19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.23	23.19	23.13	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.16	23.22	23.17	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.21	23.17	23.23	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.23	23.15	23.18	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.19	23.20	23.14	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.21	23.12	23.20	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.17	23.10	23.19	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.17	23.13	23.16	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.21	23.17	23.23	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.21	23.12	23.14	24.0	0.0

Part27O n78 Ant12 Default PC2 DFT-30

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3750	3750		
100	PI2 BPSK	1	137	25.11	25.11		27.0	0.0
100	PI2 BPSK	1	271	25.13	25.13			
100	PI2 BPSK	135	0	24.80	24.80		26.5	0.5
100	PI2 BPSK	135	69	25.03	25.03		27.0	0.0
100	PI2 BPSK	135	138	24.64	24.64			
100	PI2 BPSK	270	0	24.85	24.85		26.5	0.5
100	QPSK	1	1	3750.01	3750.01			
100	QPSK	1	137	25.09	25.09		27.0	0.0
100	QPSK	1	271	25.15	25.15			
100	QPSK	135	0	24.03	24.03		26.0	1.0
100	QPSK	135	69	25.10	25.10		27.0	0.0
100	QPSK	135	138	24.07	24.07			
100	QPSK	270	0	24.18	24.18		26.0	1.0
100	16QAM	1	1	24.10	24.10		26.0	1.0
100	64QAM	1	1	22.73	22.73		24.5	2.5
100	256QAM	1	1	20.60	20.60		22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	26.09	24.95	25.05	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.12	25.05	24.92	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.98	24.95	24.86	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.90	25.02	25.04	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.21	24.93	25.06	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.10	24.84	24.93	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.08	25.13	24.99	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.96	24.79	25.07	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.03	25.07	25.05	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.12	25.02	25.13	27.0	0.0

Part27Q 78 Ant12 Default PC2 DFT-30

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3500.01	3500.01			
100	PI2 BPSK	1	137	25.03	25.03		27.0	0.0
100	PI2 BPSK	1	271	25.08	25.08			
100	PI2 BPSK	135	0	24.60	24.60		26.5	0.5
100	PI2 BPSK	135	69	25.14	25.14		27.0	0.0
100	PI2 BPSK	135	138	24.71	24.71			
100	PI2 BPSK	270	0	24.67	24.67		26.5	0.5
100	QPSK	1	1	3500.01	3500.01			
100	QPSK	1	137	25.03	25.03		27.0	0.0
100	QPSK	1	271	25.03	25.03			
100	QPSK	135	0	24.13	24.13			
100	QPSK	135	69	25.08	25.08		27.0	0.0
100	QPSK	135	138	24.19	24.19			
100	QPSK	270	0	24.01	24.01		26.0	1.0
100	16QAM	1	1	24.11	24.11		26.0	1.0
100	64QAM	1	1	22.89	22.89		24.5	2.5
100	256QAM	1	1	20.51	20.51		22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.22	24.96	25.02	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.01	25.06	24.99	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.01	24.95	24.87	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.03	25.07	25.05	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.16	24.80	25.00	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.08	24.97	25.02	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.12	25.02	24.89	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.84	24.83	24.92	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.21	25.13	25.06	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.10	25.13	25.07	27.0	0.0



Par270 n77 Ant13 Default DFT-30

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	PI2 BPSK	1	1	25.04	25.10	25.11		
100	PI2 BPSK	1	137	25.04	25.07	25.09	25.7	0.0
100	PI2 BPSK	1	271	24.91	24.90	24.96		
100	PI2 BPSK	135	0	24.48	24.48	24.57	25.2	0.5
100	PI2 BPSK	135	69	25.01	24.94	24.96	25.7	0.0
100	PI2 BPSK	135	138	24.29	24.29	24.26	25.2	0.5
100	PI2 BPSK	270	0	24.58	24.49	24.53		
100	QPSK	1	1	25.04	25.12	25.07		
100	QPSK	1	137	24.96	25.08	25.09	25.7	0.0
100	QPSK	1	271	24.90	24.88	24.94		
100	QPSK	135	0	24.03	23.97	24.05	24.7	1.0
100	QPSK	135	69	25.06	25.11	25.01	25.7	0.0
100	QPSK	135	138	23.89	23.94	23.93	24.7	1.0
100	QPSK	270	0	24.01	24.04	23.96		
100	16QAM	1	1	23.88	23.92	23.91	24.7	1.0
100	16QAM	1	1	22.68	22.69	22.86	23.2	2.5
100	256QAM	1	1	20.54	20.55	20.02	21.2	4.5
Channel								
Frequency (MHz)				649688	650000	650334	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	1	24.85	25.06	25.05	25.7	0.0
Channel								
Frequency (MHz)				3740.01	3840	3945	Tune-up limit (dB)	MPR (dB)
80	QPSK	1	1	24.96	24.96	24.86	25.7	0.0
Channel								
Frequency (MHz)				649000	650000	650000	Tune-up limit (dB)	MPR (dB)
70	QPSK	1	1	24.83	24.93	24.89	25.7	0.0
Channel								
Frequency (MHz)				648668	650000	650334	Tune-up limit (dB)	MPR (dB)
60	QPSK	1	1	25.04	25.10	25.02	25.7	0.0
Channel								
Frequency (MHz)				3725.01	3840	3955.02	Tune-up limit (dB)	MPR (dB)
50	QPSK	1	1	24.84	24.97	25.11	25.7	0.0
Channel								
Frequency (MHz)				648000	650000	650000	Tune-up limit (dB)	MPR (dB)
40	QPSK	1	1	25.02	25.10	25.00	25.7	0.0
Channel								
Frequency (MHz)				647668	650000	650334	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	24.98	25.08	24.94	25.7	0.0
Channel								
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dB)	MPR (dB)
20	QPSK	1	1	24.92	25.03	24.92	25.7	0.0
Channel								
Frequency (MHz)				647168	650000	650334	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	24.43	24.53	24.43	25.7	0.0
Channel								
Frequency (MHz)				647000	650000	650000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	24.53	24.43	24.42	25.7	0.0

Part270 n77 Ant13 Default DFT-30

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)				3500.01				
100	PI2 BPSK	1	1	24.98	24.98	24.98		
100	PI2 BPSK	1	137	24.92	24.92	24.92	25.7	0.0
100	PI2 BPSK	1	271	24.85	24.85	24.85		
100	PI2 BPSK	135	0	24.37	24.37	24.37	25.2	0.5
100	PI2 BPSK	135	69	24.93	24.93	24.93	25.7	0.0
100	PI2 BPSK	135	138	24.18	24.18	24.18	25.2	0.5
100	PI2 BPSK	270	0	24.51	24.51	24.51		
100	QPSK	1	1	25.10	25.10	25.10		
100	QPSK	1	137	24.80	24.80	24.80	25.7	0.0
100	QPSK	1	271	24.78	24.78	24.78		
100	QPSK	135	0	23.92	23.92	23.92	24.7	1.0
100	QPSK	135	69	23.98	23.98	23.98	25.7	0.0
100	QPSK	135	138	23.88	23.88	23.88	24.7	1.0
100	QPSK	270	0	23.84	23.84	23.84		
100	16QAM	1	1	23.93	23.93	23.93	24.7	1.0
100	16QAM	1	1	22.48	22.48	23.2	23.2	2.5
100	256QAM	1	1	20.46	20.46	20.12	21.2	4.5
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	123	24.76	24.76	25.03	25.7	0.0
Channel								
Frequency (MHz)				3485.01	3500.01	3515.01	Tune-up limit (dB)	MPR (dB)
80	QPSK	1	109	24.83	24.88	25.05	25.7	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dB)	MPR (dB)
70	QPSK	1	95	24.79	25.07	24.84	25.7	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dB)	MPR (dB)
60	QPSK	1	81	25.18	25.13	24.67	25.7	0.0
Channel								
Frequency (MHz)				3475.02	3500.01	3525	Tune-up limit (dB)	MPR (dB)
50	QPSK	1	67	24.72	24.87	24.94	25.7	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dB)	MPR (dB)
40	QPSK	1	53	24.85	24.94	25.23	25.7	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	39	24.98	24.96	25.00	25.7	0.0
Channel								
Frequency (MHz)				3465.02	3500.01	3535.02	Tune-up limit (dB)	MPR (dB)
20	QPSK	1	26	24.72	25.25	25.05	25.7	0.0
Channel								
Frequency (MHz)				630500	633334	636168	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	24.42	24.47	24.24	25.7	0.0
Channel								
Frequency (MHz)				630334	633334	636334	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	24.44	24.45	24.43	25.7	0.0

Part270 n78 Ant13 Default PC3 DFT-30

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	3750	3750		
100	PI2 BPSK	1	1	22.94	22.94	22.94		
100	PI2 BPSK	1	137	22.87	22.87	22.87	24.0	0.0
100	PI2 BPSK	1	271	22.71	22.71	22.71		
100	PI2 BPSK	135	0	22.38	22.38	22.38	23.5	0.5
100	PI2 BPSK	135	69	22.79	22.79	22.79	24.0	0.0
100	PI2 BPSK	135	138	22.39	22.39	22.39	23.5	0.5
100	PI2 BPSK	270	0	22.40	22.40	22.40		
100	QPSK	1	1	23.22	23.22	23.22		
100	QPSK	1	137	23.18	23.18	23.18	24.0	0.0
100	QPSK	1	271	22.93	22.93	22.93		
100	QPSK	135	0	21.94	21.94	21.94	23.0	1.0
100	QPSK	135	69	23.01	23.01	23.01	24.0	0.0
100	QPSK	135	138	21.88	21.88	21.88	23.0	1.0
100	QPSK	270	0	21.82	21.82	21.82		
100	16QAM	1	1	21.67	21.67	21.67	23.0	1.0
100	16QAM	1	1	20.37	20.37	20.37	21.5	2.5
100	256QAM	1	1	19.48	19.48	19.48	19.5	4.5
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	1	23.13	23.08	23.07	24.0	0.0
Channel								
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dB)	MPR (dB)
80	QPSK	1	1	23.17	23.13	23.13	24.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dB)	MPR (dB)
70	QPSK	1	1	23.10	23.07	23.13	24.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dB)	MPR (dB)
60	QPSK	1	1	23.08	23.17	23.09	24.0	0.0
Channel								
Frequency (MHz)				3720	3750	3780	Tune-up limit (dB)	MPR (dB)
50	QPSK	1	1	23.14	23.10	23.14	24.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dB)	MPR (dB)
40	QPSK	1	1	23.08	23.15	23.10	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	23.12	23.17	23.07	24.0	0.0
Channel								
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dB)	MPR (dB)
20	QPSK	1	1	23.17	23.10	23.11	24.0	0.0
Channel								
Frequency (MHz)				647168	650000	652634	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	22.96	23.03	22.97	24.0	0.0
Channel								
Frequency (MHz)				3705	3750	3795	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	22.95	22.95	23.03	24.0	0.0



Part27Q n78 Ant13 Default PC3 DFT-30									
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				63300.0					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	22.88					
100	PI2 BPSK	1	137	23.27			24.0	0.0	
100	PI2 BPSK	1	271	23.08					
100	PI2 BPSK	135	0	22.80			23.5	0.5	
100	PI2 BPSK	135	69	22.91			24.0	0.0	
100	PI2 BPSK	135	138	22.27			23.5	0.5	
100	PI2 BPSK	270	0	22.28					
100	QPSK	1	1	23.95					
100	QPSK	1	137	23.45			24.0	0.0	
100	QPSK	1	271	22.99					
100	QPSK	135	0	22.38			23.0	1.0	
100	QPSK	135	69	23.17			24.0	0.0	
100	QPSK	135	138	21.87			23.0	1.0	
100	QPSK	270	0	21.89					
100	16QAM	1	1	21.65			23.0	1.0	
100	64QAM	1	1	20.55			21.5	2.5	
100	256QAM	1	1	19.55			18.5	4.5	
Channel				63300.0	63333.4	63366.8	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	23.38	23.38	23.41	24.0	0.0	
Channel				63366.8	63333.4	63300.0	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	23.41	23.38	23.37	24.0	0.0	
Channel				63333.4	63333.4	63433.4	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	95	23.37	23.32	23.33	24.0	0.0	
Channel				63200.0	63333.4	63466.8	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	23.38	23.38	23.31	24.0	0.0	
Channel				63166.8	63333.4	63500.0	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	23.33	23.40	23.40	24.0	0.0	
Channel				63133.4	63333.4	63533.4	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	23.32	23.32	23.38	24.0	0.0	
Channel				63100.0	63333.4	63566.8	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	39	23.38	23.37	23.33	24.0	0.0	
Channel				63066.8	63333.4	63600.0	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	23.35	23.29	23.32	24.0	0.0	
Channel				63050.0	63333.4	63616.8	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.02			
15	QPSK	1	1	23.21	23.17	23.23	24.0	0.0	
Channel				63033.4	63333.4	63633.4	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3450.01	3500.01	3545.01			
10	QPSK	1	1	23.21	23.12	23.10	24.0	0.0	

Part27O n78 Ant13 Default PC2 DFT-30									
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				65000.0					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1	25.83					
100	PI2 BPSK	1	137	25.81			27.0	0.0	
100	PI2 BPSK	1	271	25.82					
100	PI2 BPSK	135	0	25.31			26.5	0.5	
100	PI2 BPSK	135	69	25.70			27.0	0.0	
100	PI2 BPSK	135	138	25.24			26.5	0.5	
100	PI2 BPSK	270	0	25.28					
100	QPSK	1	1	26.10					
100	QPSK	1	137	26.02			27.0	0.0	
100	QPSK	1	271	25.78					
100	QPSK	135	0	24.89			26.0	1.0	
100	QPSK	135	69	25.89			27.0	0.0	
100	QPSK	135	138	24.80			26.0	1.0	
100	QPSK	270	0	24.75					
100	16QAM	1	1	24.62			26.0	1.0	
100	64QAM	1	1	23.22			24.5	2.5	
100	256QAM	1	1	21.41			22.5	4.5	
Channel				64966.8	65000.0	65033.4	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	25.83	25.82	25.88	27.0	0.0	
Channel				65033.4	65000.0	65066.8	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	25.83	25.85	25.98	27.0	0.0	
Channel				64900.0	65000.0	65100.0	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	25.80	25.88	25.99	27.0	0.0	
Channel				64866.8	65000.0	65133.4	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	25.88	25.92	25.83	27.0	0.0	
Channel				64833.4	65000.0	65166.8	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	25.92	25.89	25.98	27.0	0.0	
Channel				64800.0	65000.0	65200.0	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	25.98	25.91	25.97	27.0	0.0	
Channel				64766.8	65000.0	65233.4	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	25.80	25.87	25.88	27.0	0.0	
Channel				64833.4	65000.0	65266.8	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	25.83	25.89	25.98	27.0	0.0	
Channel				64716.8	65000.0	65283.4	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.02	3750	3795.01			
15	QPSK	1	1	25.03	25.07	25.05	27.0	0.0	
Channel				64700.0	65000.0	65300.0	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	25.12	25.02	25.13	27.0	0.0	

Part27Q n78 Ant13 Default PC2 DFT-30									
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				63300.0					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	25.73					
100	PI2 BPSK	1	137	26.02			27.0	0.0	
100	PI2 BPSK	1	271	25.84					
100	PI2 BPSK	135	0	25.54			26.5	0.5	
100	PI2 BPSK	135	69	25.68			27.0	0.0	
100	PI2 BPSK	135	138	25.10			26.5	0.5	
100	PI2 BPSK	270	0	25.09					
100	QPSK	1	1	25.87					
100	QPSK	1	137	26.20			27.0	0.0	
100	QPSK	1	271	25.76					
100	QPSK	135	0	25.15			26.0	1.0	
100	QPSK	135	69	25.94			27.0	0.0	
100	QPSK	135	138	24.72			26.0	1.0	
100	QPSK	270	0	24.72					
100	16QAM	1	1	24.48			26.0	1.0	
100	64QAM	1	1	23.34			24.5	2.5	
100	256QAM	1	1	21.38			22.5	4.5	
Channel				63300.0	63333.4	63366.8	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	25.85	25.84	25.84	27.0	0.0	
Channel				63366.8	63333.4	63400.0	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	25.80	25.92	25.88	27.0	0.0	
Channel				63333.4	63333.4	63433.4	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	95	25.83	25.97	25.93	27.0	0.0	
Channel				63200.0	63333.4	63466.8	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	25.73	25.83	25.71	27.0	0.0	
Channel				63166.8	63333.4	63500.0	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	25.88	25.88	25.93	27.0	0.0	
Channel				63133.4	63333.4	63533.4	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	25.91	25.86	25.83	27.0	0.0	
Channel				63100.0	63333.4	63566.8	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	39	25.79	25.95	26.00	27.0	0.0	
Channel				63066.8	63333.4	63600.0	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	25.76	25.79	25.89	27.0	0.0	
Channel				63050.0	63333.4	63616.8	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
15	QPSK	1	1	25.21	25.13	25.06	27.0	0.0	



Reduced power level for 5G NR

n5 Ant0 DSH1 DFT-15									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	24.99	25.01	24.80			
20	PI2 BPSK	1	53	25.06	25.07	24.80	25.5	0.0	
20	PI2 BPSK	1	104	24.74	24.96	24.95			
20	PI2 BPSK	50	0	24.55	24.53	24.43	25.0	0.5	
20	PI2 BPSK	50	28	24.92	25.06	24.85	25.5	0.0	
20	PI2 BPSK	50	59	24.46	24.49	24.36	25.0	0.5	
20	PI2 BPSK	100	0	24.40	24.47	24.29			
20	QPSK	1	1	24.99	25.20	25.15			
20	QPSK	1	53	25.09	25.15	25.08	25.5	0.0	
20	QPSK	1	104	24.97	25.13	25.06			
20	QPSK	50	0	23.94	24.09	23.97	24.5	1.0	
20	QPSK	50	28	25.13	25.17	25.08	25.5	0.0	
20	QPSK	50	58	23.93	24.05	23.94	24.5	1.0	
20	QPSK	100	0	23.89	24.06	23.88			
20	16QAM	1	1	23.80	23.97	23.80	24.5	1.0	
20	64QAM	1	1	22.39	22.43	22.37	23.0	2.5	
20	256QAM	1	1	20.26	20.40	20.20	21.0	4.5	
Channel				168300	167300	168300			
Frequency (MHz)				831.5	835	841.5			
15	QPSK	1	1	25.17	25.14	25.11	25.5	0.0	
Channel				168900	167300	168900			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	25.19	25.10	25.12	25.5	0.0	
Channel				168300	167300	168300			
Frequency (MHz)				831.5	836.5	846.5			
5	QPSK	1	1	25.08	25.16	25.02	25.5	0.0	

n7 Ant0 DSH1 DFT-15									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	23.29	23.47	23.40			
40	PI2 BPSK	1	108	23.24	23.38	23.18	24.5	0.0	
40	PI2 BPSK	1	214	23.24	23.38	23.19			
40	PI2 BPSK	108	0	22.73	22.86	22.72	24.0	0.5	
40	PI2 BPSK	108	54	23.21	23.39	23.27	24.5	0.0	
40	PI2 BPSK	108	108	22.82	22.82	22.81	24.0	0.5	
40	PI2 BPSK	216	0	22.76	22.86	22.72			
40	QPSK	1	1	23.47	23.52	23.40			
40	QPSK	1	108	23.29	23.33	23.18	24.5	0.0	
40	QPSK	1	214	23.16	23.32	23.17			
40	QPSK	108	0	22.24	22.40	22.27	23.5	1.0	
40	QPSK	108	54	23.29	23.44	23.40	24.5	0.0	
40	QPSK	108	108	22.39	22.42	22.41	23.5	1.0	
40	QPSK	216	0	22.35	22.39	22.18			
40	16QAM	1	1	22.33	22.44	22.44	23.5	1.0	
40	64QAM	1	1	20.81	20.82	20.66	22.0	2.5	
40	256QAM	1	1	19.04	19.08	18.89	20.0	4.5	
Channel				503000	507000	511000			
Frequency (MHz)				2515	2533	2555			
30	QPSK	1	1	23.16	23.32	23.30	24.5	0.0	
Channel				502500	507000	511500			
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	23.18	23.38	23.29	24.5	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	23.19	23.41	23.30	24.5	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2533	2562.5			
15	QPSK	1	1	23.15	23.24	23.24	24.5	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.17	23.38	23.37	24.5	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.23	23.38	23.34	24.5	0.0	

n66 Ant0 DSH1 DFT-15									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	22.70	22.75	22.77			
40	PI2 BPSK	1	108	22.90	22.93	22.98	24.5	0.0	
40	PI2 BPSK	1	214	22.81	22.81	22.83			
40	PI2 BPSK	108	0	22.34	22.28	22.24	24.0	0.5	
40	PI2 BPSK	108	54	22.84	22.87	22.83	24.5	0.0	
40	PI2 BPSK	108	108	22.46	22.40	22.40	24.0	0.5	
40	PI2 BPSK	216	0	22.43	22.41	22.48			
40	QPSK	1	1	22.91	22.95	22.85			
40	QPSK	1	108	22.84	22.92	22.93	24.5	0.0	
40	QPSK	1	214	22.89	22.90	22.86			
40	QPSK	108	0	21.90	21.85	21.87	23.5	1.0	
40	QPSK	108	54	22.98	22.91	22.90	24.5	0.0	
40	QPSK	108	108	21.92	21.92	21.97	23.5	1.0	
40	QPSK	216	0	21.91	21.99	21.93			
40	16QAM	1	1	22.08	22.07	22.03	23.5	1.0	
40	64QAM	1	1	20.56	20.55	20.52	22.0	2.5	
40	256QAM	1	1	18.17	18.10	18.07	20.0	4.5	
Channel				345000	349000	353000			
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.72	22.71	22.74	24.5	0.0	
Channel				344500	349000	344000			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.75	22.81	22.84	24.5	0.0	
Channel				343500	349000	354500			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.76	22.70	22.75	24.5	0.0	
Channel				343000	349000	355000			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.67	22.78	22.83	24.5	0.0	
Channel				342500	349000	355500			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.76	22.75	22.86	24.5	0.0	



n38 Ant0 DS1 DFT-30								
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	PI/2 BPSK	1	1	20.95	20.88	20.87		
40	PI/2 BPSK	1	53	20.79	20.86	20.95	22.5	0.0
40	PI/2 BPSK	1	104	20.92	20.95	20.90		
40	PI/2 BPSK	50	0	20.14	20.16	20.12	22.0	0.5
40	PI/2 BPSK	50	28	20.96	20.96	20.96	22.5	0.0
40	PI/2 BPSK	50	56	20.56	20.58	20.55		
40	PI/2 BPSK	100	0	20.32	20.29	20.32	22.0	0.5
40	QPSK	1	1	20.96	20.99	20.86		
40	QPSK	1	53	20.96	20.95	20.92	22.5	0.0
40	QPSK	1	104	20.88	20.86	20.89		
40	QPSK	50	0	19.58	19.53	19.51	21.5	1.0
40	QPSK	50	28	20.70	20.73	20.69	22.5	0.0
40	QPSK	50	56	20.07	20.07	20.05		
40	QPSK	100	0	19.66	19.68	19.76	21.5	1.0
40	16QAM	1	1	19.86	19.92	19.87	21.5	1.0
40	64QAM	1	1	18.48	18.51	18.57	20.0	2.5
40	256QAM	1	1	16.63	16.60	16.59	18.0	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	20.83	20.86	20.76	22.5	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	20.90	20.96	20.92	22.5	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	20.89	20.84	20.83	22.5	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	20.80	20.89	20.87	22.5	0.0

n41 Ant0 DS1 DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.86	20.88	20.90		
100	PI/2 BPSK	1	137	20.91	20.89	20.96	22.5	0.0
100	PI/2 BPSK	1	271	20.58	20.54	20.56		
100	PI/2 BPSK	135	0	20.30	20.29	20.29	22.0	0.5
100	PI/2 BPSK	135	69	20.91	20.92	20.96	22.5	0.0
100	PI/2 BPSK	135	138	20.61	20.56	20.56		
100	PI/2 BPSK	270	0	20.31	20.29	20.33	22.0	0.5
100	QPSK	1	1	20.97	21.00	20.98		
100	QPSK	1	137	20.92	20.93	20.99	22.5	0.0
100	QPSK	1	271	20.65	20.58	20.63		
100	QPSK	135	0	19.81	19.74	19.81	21.5	1.0
100	QPSK	135	69	20.75	20.81	20.76	22.5	0.0
100	QPSK	135	138	20.14	20.08	20.04		
100	QPSK	270	0	19.76	19.77	19.74	21.5	1.0
100	16QAM	1	1	19.72	19.72	19.75	21.5	1.0
100	64QAM	1	1	18.31	18.26	18.24	20.0	2.5
100	256QAM	1	1	16.82	16.83	16.83	18.0	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.93	20.89	20.93	22.5	0.0
Channel				507204	518598	529996		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.91	20.89	20.90	22.5	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.89	20.84	20.88	22.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.92	20.85	20.87	22.5	0.0
Channel				504204	518598	532996		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	20.82	20.93	20.95	22.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.86	20.89	20.87	22.5	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.85	20.95	20.89	22.5	0.0
Channel				501204	518598	535996		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.88	20.91	20.85	22.5	0.0



n5 Ant1 DS11 DFT-15								
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)				834	836.5	839		
20	PI/2 BPSK	1	1	22.60	22.53	22.57	23.2	0.0
20	PI/2 BPSK	1	53	22.51	22.55	22.53		
20	PI/2 BPSK	1	104	22.41	22.43	22.36		
20	PI/2 BPSK	50	0	22.33	22.26	22.21	23.2	0.0
20	PI/2 BPSK	50	28	22.41	22.48	22.55	23.2	0.0
20	PI/2 BPSK	50	56	22.48	22.40	22.49	23.2	0.0
20	PI/2 BPSK	100	0	22.48	22.46	22.59		
20	QPSK	1	1	22.51	22.65	22.60	23.2	0.0
20	QPSK	1	53	22.53	22.45	22.41		
20	QPSK	1	104	22.41	22.34	22.23		
20	QPSK	50	0	22.50	22.51	22.51	23.2	0.0
20	QPSK	50	28	22.50	22.56	22.43	23.2	0.0
20	QPSK	50	56	22.35	22.42	22.37	23.2	0.0
20	QPSK	100	0	22.48	22.55	22.54		
20	16QAM	1	1	22.58	22.58	22.49	23.2	0.0
20	64QAM	1	1	22.57	22.60	22.48	23.2	0.0
20	256QAM	1	1	20.45	20.64	20.57	21.2	2.0
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	22.56	22.43	22.47	23.2	0.0
Channel				166500	167300	168300	Tune-up limit	MPR
Frequency (MHz)				839	836.5	844	(dBm)	(dB)
10	QPSK	1	1	22.37	22.48	22.52	23.2	0.0
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	22.43	22.45	22.40	23.2	0.0



n7 Ant3 DSH DFT-15								
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	PI/2 BPSK	1	1	23.07	23.18	23.19	24.0	0.0
40	PI/2 BPSK	1	108	23.05	23.15	23.13		
40	PI/2 BPSK	1	214	22.96	23.06	22.97		
40	PI/2 BPSK	108	0	22.56	22.66	22.54		
40	PI/2 BPSK	108	54	23.07	23.15	23.11	24.0	0.0
40	PI/2 BPSK	108	108	22.58	22.66	22.71	23.5	0.5
40	PI/2 BPSK	216	0	22.49	22.56	22.49		
40	QPSK	1	1	23.18	23.20	23.19	24.0	0.0
40	QPSK	1	108	23.09	23.16	23.13		
40	QPSK	1	214	23.16	23.11	23.01		
40	QPSK	108	0	22.20	22.10	22.06		
40	QPSK	108	54	23.03	23.13	23.11	24.0	0.0
40	QPSK	108	108	22.13	22.08	22.06	23.0	1.0
40	QPSK	216	0	21.99	22.09	22.05		
40	16QAM	1	1	22.34	22.42	22.34	23.0	1.0
40	64QAM	1	1	20.79	20.75	20.75	21.5	2.5
40	256QAM	1	1	18.74	18.62	18.57	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	24.0	0.0
30	PI/2 BPSK	1	1	22.92	23.00	23.10	24.0	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2557.5	24.0	0.0
25	PI/2 BPSK	1	1	22.97	23.18	23.00	24.0	0.0
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560	24.0	0.0
20	QPSK	1	1	22.94	23.00	23.01	24.0	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0
15	QPSK	1	1	22.92	23.11	23.04	24.0	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565	24.0	0.0
10	QPSK	1	1	22.92	23.05	23.08	24.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0
5	QPSK	1	1	22.99	23.13	23.18	24.0	0.0
Channel				500000	507000	514000		
Frequency (MHz)				2500	2535	2570	24.0	0.0

n66 Ant3 DSI1 DFT-15								
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		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	22.74	22.78	22.81	24.0	0.0
40	PI/2 BPSK	1	108	22.64	22.73	22.67		
40	PI/2 BPSK	1	214	22.76	22.72	22.77		
40	PI/2 BPSK	108	0	22.06	22.16	22.19		
40	PI/2 BPSK	108	54	22.81	22.89	22.70	24.0	0.0
40	PI/2 BPSK	108	108	22.13	22.17	22.25	23.5	0.5
40	PI/2 BPSK	216	0	22.28	22.28	22.40		
40	QPSK	1	1	22.80	22.82	22.73	24.0	0.0
40	QPSK	1	108	22.78	22.76	22.66		
40	QPSK	1	214	22.71	22.79	22.70		
40	QPSK	108	0	21.79	21.76	21.66		
40	QPSK	108	54	22.61	22.70	22.68	24.0	0.0
40	QPSK	108	108	21.73	21.73	21.82	23.0	1.0
40	QPSK	216	0	21.75	21.80	21.72		
40	16QAM	1	1	22.05	22.01	21.96	23.0	1.0
40	64QAM	1	1	20.45	20.45	20.35	21.5	2.5
40	256QAM	1	1	18.28	18.20	18.13	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	24.0	0.0
30	PI/2 BPSK	1	1	22.71	22.75	22.84	24.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770	24.0	0.0
20	QPSK	1	1	22.68	22.73	22.70	24.0	0.0
Channel				343000	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0
15	QPSK	1	1	22.63	22.63	22.68	24.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775	24.0	0.0
10	QPSK	1	1	22.71	22.88	22.70	24.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0
5	QPSK	1	1	22.54	22.79	22.84	24.0	0.0
Channel				342000	349000	356000		
Frequency (MHz)				1710	1745	1780	24.0	0.0



n38 Ant3 DSI1 DFT-30									
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	PI/2 BPSK	1	1	22.94	22.97	22.83			
40	PI/2 BPSK	1	53	22.74	22.92	22.71	24.0	0.0	
40	PI/2 BPSK	1	104	22.81	22.96	22.91			
40	PI/2 BPSK	50	0	22.35	22.42	22.34	23.5	0.5	
40	PI/2 BPSK	50	28	22.71	22.84	22.73	24.0	0.0	
40	PI/2 BPSK	50	56	22.27	22.41	22.22	23.5	0.5	
40	PI/2 BPSK	100	0	22.29	22.39	22.18			
40	QPSK	1	1	22.96	22.98	22.85			
40	QPSK	1	53	22.81	22.96	22.76	24.0	0.0	
40	QPSK	1	104	22.86	22.97	22.97			
40	QPSK	50	0	21.82	21.91	21.91	23.0	1.0	
40	QPSK	50	28	22.81	22.87	22.82	24.0	0.0	
40	QPSK	50	56	21.97	21.89	21.95	23.0	1.0	
40	QPSK	100	0	21.66	21.87	21.74			
40	16QAM	1	1	21.81	21.83	21.75	23.0	1.0	
40	64QAM	1	1	20.43	20.54	20.33	21.5	2.5	
40	256QAM	1	1	18.30	18.51	18.36	19.5	4.5	
Channel				517092	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	22.81	22.85	22.87	24.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	22.87	22.88	22.79	24.0	0.0	
Channel				514502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	PI/2 BPSK	1	1	22.12	22.25	22.23	24.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	PI/2 BPSK	1	1	22.17	22.23	22.17	24.0	0.0	

n41 Ant3 DSI1 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.96	22.88	22.86			
100	PI/2 BPSK	1	137	22.79	22.84	22.72	24.0	0.0	
100	PI/2 BPSK	1	271	22.94	22.86	22.83			
100	PI/2 BPSK	135	0	22.13	22.25	22.25	23.5	0.5	
100	PI/2 BPSK	135	69	22.86	22.84	22.90	24.0	0.0	
100	PI/2 BPSK	135	138	22.63	22.71	22.73	23.5	0.5	
100	PI/2 BPSK	270	0	22.31	22.38	22.29			
100	QPSK	1	1	22.88	22.99	22.84			
100	QPSK	1	137	22.82	22.98	22.86	24.0	0.0	
100	QPSK	1	271	22.49	22.50	22.53			
100	QPSK	135	0	21.68	21.86	21.77	23.0	1.0	
100	QPSK	135	69	22.88	22.97	22.86	24.0	0.0	
100	QPSK	135	138	21.87	21.84	21.89	23.0	1.0	
100	QPSK	270	0	21.73	21.85	21.84			
100	16QAM	1	1	21.86	21.89	21.93	23.0	1.0	
100	64QAM	1	1	20.09	20.13	20.11	21.5	2.5	
100	256QAM	1	1	18.44	18.53	18.44	19.5	4.5	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.98	22.77	22.74	24.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2636.02	2592.99	2649.99			
80	QPSK	1	1	22.98	22.68	22.68	24.0	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	22.90	22.79	22.83	24.0	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2528	2592.99	2659.98			
60	QPSK	1	1	22.78	22.83	22.67	24.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2621.02	2592.99	2664.99			
50	QPSK	1	1	22.77	22.79	22.68	24.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.82	22.86	22.77	24.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.91	22.80	22.68	24.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.77	22.71	22.66	24.0	0.0	



n7 Ant4 DSH DFT-15								
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	PI/2 BPSK	1	1	17.32	17.20	17.19		
40	PI/2 BPSK	1	108	17.28	17.18	17.19	17.5	0.0
40	PI/2 BPSK	1	214	17.13	17.07	17.16		
40	PI/2 BPSK	108	0	17.26	17.15	17.22	17.5	0.0
40	PI/2 BPSK	108	54	17.19	17.13	17.20	17.5	0.0
40	PI/2 BPSK	108	108	17.06	17.15	17.11		
40	PI/2 BPSK	216	0	17.15	17.18	17.21	17.5	0.0
40	QPSK	1	1	17.21	17.35	17.16		
40	QPSK	1	108	17.27	17.21	17.20	17.5	0.0
40	QPSK	1	214	17.32	17.24	17.16		
40	QPSK	108	0	17.07	17.23	17.15	16.5	1.0
40	QPSK	108	54	17.06	17.26	16.95	17.5	0.0
40	QPSK	108	108	17.13	17.15	17.17	16.5	1.0
40	QPSK	216	0	17.12	17.20	17.19		
40	16QAM	1	1	17.28	17.09	17.30	17.5	0.0
40	64QAM	1	1	17.25	17.29	17.33	17.5	0.0
40	256QAM	1	1	17.27	17.23	17.31	17.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	17.5	0.0
30	QPSK	1	1	17.24	17.23	17.07	17.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	17.5	0.0
25	QPSK	1	1	17.23	17.23	17.09	17.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	17.5	0.0
20	QPSK	1	1	17.25	17.23	17.10	17.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	17.5	0.0
15	QPSK	1	1	17.23	17.30	17.25	17.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	17.5	0.0
10	QPSK	1	1	17.20	17.08	17.15	17.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	17.5	0.0
5	QPSK	1	1	17.25	17.34	17.13	17.5	0.0

n66 Ant4 DSI1 DFT-15								
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		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	17.58	17.59	17.54		
40	PI/2 BPSK	1	108	17.59	17.62	17.51	18.5	0.0
40	PI/2 BPSK	1	214	17.58	17.57	17.56		
40	PI/2 BPSK	108	0	17.46	17.55	17.57	18.5	0.0
40	PI/2 BPSK	108	54	17.52	17.60	17.51	18.5	0.0
40	PI/2 BPSK	108	108	17.48	17.55	17.54		
40	PI/2 BPSK	216	0	17.50	17.62	17.60	18.5	0.0
40	QPSK	1	1	17.57	17.64	17.58		
40	QPSK	1	108	17.62	17.59	17.63	18.5	0.0
40	QPSK	1	214	17.55	17.57	17.48		
40	QPSK	108	0	17.50	17.56	17.47	18.5	0.0
40	QPSK	108	54	17.54	17.60	17.52	18.5	0.0
40	QPSK	108	108	17.56	17.53	17.57	18.5	0.0
40	QPSK	216	0	17.57	17.61	17.54		
40	16QAM	1	1	17.58	17.62	17.58	18.5	0.0
40	64QAM	1	1	17.60	17.63	17.51	18.5	0.0
40	256QAM	1	1	17.50	17.53	17.58	18.5	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	18.5	0.0
30	QPSK	1	1	17.49	17.58	17.50	18.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	18.5	0.0
20	QPSK	1	1	17.40	17.61	17.50	18.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	18.5	0.0
15	QPSK	1	1	17.45	17.50	17.40	18.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	18.5	0.0
10	QPSK	1	1	17.41	17.41	17.56	18.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	18.5	0.0
5	QPSK	1	1	17.49	17.45	17.33	18.5	0.0



n38 Ant4 DS1 DFT-30								
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	PI/2 BPSK	1	1	19.47	19.51	19.45		
40	PI/2 BPSK	1	53	19.35	19.35	19.31	19.5	0.0
40	PI/2 BPSK	1	104	19.36	19.45	19.50		
40	PI/2 BPSK	50	0	19.36	19.42	19.41	19.5	0.0
40	PI/2 BPSK	50	28	19.30	19.33	19.44	19.5	0.0
40	PI/2 BPSK	50	56	19.37	19.37	19.38		
40	PI/2 BPSK	100	0	19.48	19.45	19.43	19.5	0.0
40	QPSK	1	1	19.41	19.52	19.48		
40	QPSK	1	53	19.43	19.34	19.27	19.5	0.0
40	QPSK	1	104	19.50	19.45	19.49		
40	QPSK	50	0	19.22	19.31	19.27	19.5	0.0
40	QPSK	50	28	19.35	19.40	19.30	19.5	0.0
40	QPSK	50	56	19.33	19.39	19.38		
40	QPSK	100	0	19.26	19.37	19.31	19.5	0.0
40	16QAM	1	1	19.33	19.41	19.33	19.5	0.0
40	64QAM	1	1	19.49	19.51	19.43	19.5	0.0
40	256QAM	1	1	19.46	19.40	19.36	19.5	0.0
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	19.33	19.47	19.25	19.5	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	19.31	19.50	19.26	19.5	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	19.19	18.96	19.11	19.5	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	19.17	18.94	18.96	19.5	0.0

n41 Ant4 DS1 DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.21	19.13	19.14		
100	PI/2 BPSK	1	137	19.18	19.16	19.18	20.0	0.0
100	PI/2 BPSK	1	271	19.31	19.23	19.34		
100	PI/2 BPSK	135	0	19.28	19.21	19.13	20.0	0.0
100	PI/2 BPSK	135	69	19.32	19.33	19.28	20.0	0.0
100	PI/2 BPSK	135	138	19.05	19.06	19.06		
100	PI/2 BPSK	270	0	19.09	19.20	19.21	20.0	0.0
100	QPSK	1	1	19.34	19.38	19.26		
100	QPSK	1	137	19.10	19.15	19.08	20.0	0.0
100	QPSK	1	271	19.35	19.28	19.32		
100	QPSK	135	0	19.14	19.12	19.01	20.0	0.0
100	QPSK	135	69	19.14	19.23	19.13	20.0	0.0
100	QPSK	135	138	19.01	19.11	19.14		
100	QPSK	270	0	19.12	19.22	19.19	20.0	0.0
100	16QAM	1	1	19.30	19.32	19.35	20.0	0.0
100	64QAM	1	1	19.34	19.30	19.22	20.0	0.0
100	256QAM	1	1	19.11	19.12	19.00	20.0	0.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.15	19.11	19.07	20.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.17	18.96	19.37	20.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.20	18.99	19.11	20.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	18.99	19.10	19.02	20.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.19	18.96	19.11	20.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.22	18.98	19.04	20.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.17	18.94	18.96	20.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.20	18.94	18.93	20.0	0.0



n7 Ant5 DSH DFT-15								
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	PI/2 BPSK	1	1	21.64	21.65	21.58		
40	PI/2 BPSK	1	108	21.56	21.60	21.63	23.0	0.0
40	PI/2 BPSK	1	214	21.60	21.58	21.51		
40	PI/2 BPSK	108	0	21.10	21.05	21.01	22.5	0.5
40	PI/2 BPSK	108	54	21.54	21.53	21.58	23.0	0.0
40	PI/2 BPSK	108	108	21.14	21.07	21.06		
40	PI/2 BPSK	216	0	20.95	21.05	21.02	22.5	0.5
40	QPSK	1	1	21.64	21.68	21.55		
40	QPSK	1	108	21.67	21.58	21.60	23.0	0.0
40	QPSK	1	214	21.43	21.52	21.62		
40	QPSK	108	0	20.62	20.55	20.61	22.0	1.0
40	QPSK	108	54	21.48	21.49	21.40	23.0	0.0
40	QPSK	108	108	20.50	20.57	20.58	22.0	1.0
40	QPSK	216	0	20.46	20.65	20.58		
40	16QAM	1	1	20.78	20.89	20.91	22.0	1.0
40	64QAM	1	1	19.35	19.34	19.39	20.5	2.5
40	256QAM	1	1	17.35	17.33	17.42	18.5	4.5
Channel				505000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	21.60	21.49	21.45	23.0	0.0
Channel				505200	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	21.43	21.65	21.43	23.0	0.0
Channel				505000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2580		
20	QPSK	1	1	21.62	21.47	21.43	23.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2582.5		
15	QPSK	1	1	21.45	21.64	21.39	23.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	21.64	21.61	21.43	23.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.44	21.63	21.55	23.0	0.0

n66 Ant5 DSI1 DFT-15								
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		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	20.41	20.53	20.55		
40	PI/2 BPSK	1	108	20.57	20.55	20.47	22.0	0.0
40	PI/2 BPSK	1	214	20.40	20.52	20.44		
40	PI/2 BPSK	108	0	20.12	20.05	20.13	22.0	0.0
40	PI/2 BPSK	108	54	20.51	20.47	20.39	22.0	0.0
40	PI/2 BPSK	108	108	20.38	20.47	20.53		
40	PI/2 BPSK	216	0	20.51	20.49	20.45	22.0	0.0
40	QPSK	1	1	20.52	20.68	20.52		
40	QPSK	1	108	20.53	20.54	20.46	22.0	0.0
40	QPSK	1	214	20.51	20.56	20.55		
40	QPSK	108	0	20.51	20.52	20.41	22.0	0.0
40	QPSK	108	54	20.37	20.63	20.39	22.0	0.0
40	QPSK	108	108	20.46	20.44	20.34	22.0	0.0
40	QPSK	216	0	20.47	20.54	20.42		
40	16QAM	1	1	20.42	20.45	20.47	22.0	0.0
40	64QAM	1	1	19.25	19.15	19.09	20.5	1.5
40	256QAM	1	1	17.14	17.19	17.20	18.5	3.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	20.34	20.35	20.51	22.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	20.57	20.42	20.46	22.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	20.38	20.41	20.46	22.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	20.28	20.40	20.56	22.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	20.39	20.51	20.56	22.0	0.0



n38 Ant5 DS1 DFT-30								
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	PI/2 BPSK	1	1	21.28	21.23	21.29		
40	PI/2 BPSK	1	53	21.21	21.22	21.12	22.2	0.0
40	PI/2 BPSK	1	104	21.26	21.32	21.20		
40	PI/2 BPSK	50	0	20.56	20.70	20.60	22.2	0.0
40	PI/2 BPSK	50	28	21.20	21.15	21.05	22.2	0.0
40	PI/2 BPSK	50	56	20.74	20.77	20.79	22.2	0.0
40	PI/2 BPSK	100	0	20.75	20.66	20.58		
40	QPSK	1	1	21.24	21.29	21.28		
40	QPSK	1	53	21.17	21.21	21.15	22.2	0.0
40	QPSK	1	104	21.27	21.27	21.21		
40	QPSK	50	0	21.00	21.18	21.11	22.2	0.0
40	QPSK	50	28	21.09	21.30	21.07	22.2	0.0
40	QPSK	50	56	21.23	21.27	21.15	22.2	0.0
40	QPSK	100	0	21.03	21.15	21.03		
40	16QAM	1	1	21.16	21.19	21.09	22.2	0.0
40	64QAM	1	1	21.04	21.06	20.95	22.2	0.0
40	256QAM	1	1	20.26	20.34	20.43	21.2	1.0
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99	22.2	0.0
30	QPSK	1	1	21.23	21.12	21.03		
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610	22.2	0.0
20	QPSK	1	1	21.05	21.05	21.05		
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49	22.2	0.0
15	PI/2 BPSK	1	1	21.22	21.15	21.03		
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98	22.2	0.0
10	PI/2 BPSK	1	1	21.25	21.24	21.13		

n41 Ant5 DS1 DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	21.26	21.32	21.44		
100	PI/2 BPSK	1	137	21.25	21.34	21.43	22.2	0.0
100	PI/2 BPSK	1	271	21.27	21.32	21.27		
100	PI/2 BPSK	135	0	21.28	21.28	21.28	22.2	0.0
100	PI/2 BPSK	135	69	21.34	21.33	21.28	22.2	0.0
100	PI/2 BPSK	135	138	21.40	21.29	21.45	22.2	0.0
100	PI/2 BPSK	270	0	21.11	21.30	21.28		
100	QPSK	1	1	21.40	21.48	21.47		
100	QPSK	1	137	21.25	21.31	21.40	22.2	0.0
100	QPSK	1	271	21.36	21.32	21.23		
100	QPSK	135	0	21.15	21.23	21.13	22.2	0.0
100	QPSK	135	69	21.06	21.43	21.22	22.2	0.0
100	QPSK	135	138	21.21	21.33	21.34	22.2	0.0
100	QPSK	270	0	21.32	21.42	21.38		
100	16QAM	1	1	21.35	21.41	21.39	22.2	0.0
100	64QAM	1	1	21.33	21.46	21.37	22.2	0.0
100	256QAM	1	1	20.69	20.98	20.99	21.2	1.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	22.2	0.0
90	QPSK	1	1	21.26	21.37	21.28		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	22.2	0.0
80	QPSK	1	1	21.16	21.21	21.13		
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	22.2	0.0
70	QPSK	1	1	21.22	21.34	21.24		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98	22.2	0.0
60	QPSK	1	1	21.25	21.32	21.31		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	22.2	0.0
50	QPSK	1	1	21.22	21.35	21.44		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	22.2	0.0
40	QPSK	1	1	21.28	21.29	21.36		
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	22.2	0.0
30	QPSK	1	1	21.25	21.24	21.30		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	22.2	0.0
20	QPSK	1	1	21.22	21.20	21.44		



Par270 n77 Ant10 DSH DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	18.74	18.94	18.83	19.7	0.0	
100	PI/2 BPSK	1	137	18.89	18.89	18.80			
100	PI/2 BPSK	1	271	18.92	18.95	18.85			
100	PI/2 BPSK	135	0	18.26	18.40	18.41			
100	PI/2 BPSK	135	69	18.78	18.90	18.83			
100	PI/2 BPSK	135	138	18.36	18.19	18.34			
100	PI/2 BPSK	270	0	18.19	18.46	18.29			
100	QPSK	1	1	18.74	18.98	18.83			
100	QPSK	1	137	18.89	18.89	18.80			
100	QPSK	1	271	18.92	18.95	18.85			
100	QPSK	135	0	18.74	18.85	18.83	19.7	0.0	
100	QPSK	135	69	18.89	18.94	18.80	19.7	0.0	
100	QPSK	135	138	18.92	18.85	18.85	19.7	0.0	
100	QPSK	270	0	18.26	18.42	18.41	19.7	0.0	
100	16QAM	1	1	18.89	18.90	18.83	19.7	0.0	
100	64QAM	1	1	18.36	18.19	18.34	19.7	0.0	
100	256QAM	1	1	18.19	18.46	18.29	19.7	0.0	
Channel				646968	650000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	18.82	18.96	18.84	19.7	0.0	
Channel				646334	650000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	18.91	18.90	18.73	19.7	0.0	
Channel				646000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	18.82	18.64	18.85	19.7	0.0	
Channel				646968	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	18.99	18.93	18.79	19.7	0.0	
Channel				646334	650000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	18.94	18.89	18.87	19.7	0.0	
Channel				646000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	18.82	18.86	18.92	19.7	0.0	
Channel				647968	650000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	19.01	18.98	18.90	19.7	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	18.92	18.96	18.77	19.7	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.82	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	18.84	18.89	18.80	19.7	0.0	
Channel				647000	650000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	18.56	18.84	18.78	19.7	0.0	

Part27Q n77 Ant10 DSH DFT-30									
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				633000	633334	633668			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI/2 BPSK	1	1	18.74	18.74	18.74	19.7	0.0	
100	PI/2 BPSK	1	137	18.82	18.82	18.82			
100	PI/2 BPSK	1	271	19.00	19.00	19.00			
100	PI/2 BPSK	135	0	18.41	18.41	18.41			
100	PI/2 BPSK	135	69	19.07	19.07	19.07			
100	PI/2 BPSK	135	138	18.41	18.41	18.41			
100	PI/2 BPSK	270	0	18.34	18.34	18.34			
100	QPSK	1	1	19.10	19.10	19.10			
100	QPSK	1	137	18.74	18.74	18.74			
100	QPSK	1	271	18.74	18.74	18.74			
100	QPSK	135	0	19.00	19.00	19.00	19.7	0.0	
100	QPSK	135	69	19.08	19.08	19.08	19.7	0.0	
100	QPSK	135	138	18.41	18.41	18.41	19.7	0.0	
100	QPSK	270	0	18.99	18.99	18.99	19.7	0.0	
100	16QAM	1	1	18.41	18.41	18.41	19.7	0.0	
100	64QAM	1	1	18.34	18.34	18.34	19.7	0.0	
100	256QAM	1	1	18.26	18.26	18.26	19.7	0.0	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	123	18.84	18.81	18.86	19.7	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	109	18.81	18.92	18.91	19.7	0.0	
Channel				632334	633334	634334	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)	
70	QPSK	1	95	18.97	19.00	18.78	19.7	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	81	19.04	18.94	18.78	19.7	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	67	18.97	18.88	18.88	19.7	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	53	18.84	18.89	18.80	19.7	0.0	
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	39	18.85	18.80	18.87	19.7	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	26	18.95	18.95	18.91	19.7	0.0	
Channel				630500	633334	636168	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)	
15	QPSK	1	1	18.82	18.86	18.92	19.7	0.0	
Channel				630334	633334	636334	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	1	18.82	18.86	18.77	19.7	0.0	



Part270 n78 Ant10 DSI1 PC2&PC3 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					650000				
Frequency (MHz)					3750				
100	PI/2 BPSK	1	1		19.28		20.0	0.0	
100	PI/2 BPSK	1	137		19.38				
100	PI/2 BPSK	1	271		19.30		20.0	0.0	
100	PI/2 BPSK	135	0		19.31				
100	PI/2 BPSK	135	69		19.33		20.0	0.0	
100	PI/2 BPSK	135	138		19.29		20.0	0.0	
100	PI/2 BPSK	270	0		19.23		20.0	0.0	
100	QPSK	1	1		19.43		20.0	0.0	
100	QPSK	1	137		19.37				
100	QPSK	1	271		19.38		20.0	0.0	
100	QPSK	135	0		19.24				
100	QPSK	135	69		19.27		20.0	0.0	
100	QPSK	135	138		19.24		20.0	0.0	
100	QPSK	270	0		19.25		20.0	0.0	
100	16QAM	1	1		19.14		20.0	0.0	
100	64QAM	1	1		19.33		20.0	0.0	
100	256QAM	1	1		19.40		20.0	0.0	
Channel					649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)					3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1		19.10	19.35	19.24	20.0	0.0
Channel					648334	650000	650668	Tune-up limit	MPR
Frequency (MHz)					3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1		19.11	19.15	19.38	20.0	0.0
Channel					649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)					3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1		19.27	19.17	19.38	20.0	0.0
Channel					648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)					3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1		19.10	19.22	19.35	20.0	0.0
Channel					648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)					3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1		19.05	19.21	19.31	20.0	0.0
Channel					648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)					3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1		19.00	19.30	19.36	20.0	0.0
Channel					647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)					3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1		19.20	19.19	19.21	20.0	0.0
Channel					647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)					3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1		19.05	19.29	19.18	20.0	0.0
Channel					647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)					3707.62	3750	3792.51	(dBm)	(dB)
15	QPSK	1	1		19.92	19.21	19.18	20.0	0.0
Channel					647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)					3705	3750	3795	(dBm)	(dB)
10	QPSK	1	1		19.23	19.16	19.17	20.0	0.0

Part27Q 78 Ant10 DSI1 PC2&PC3 DFT-30									
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					633334				
Frequency (MHz)					3500.01				
100	PI/2 BPSK	1	1		19.31		20.0	0.0	
100	PI/2 BPSK	1	137		19.36				
100	PI/2 BPSK	1	271		19.28		20.0	0.0	
100	PI/2 BPSK	135	0		19.37				
100	PI/2 BPSK	135	69		19.23		20.0	0.0	
100	PI/2 BPSK	135	138		19.31		20.0	0.0	
100	PI/2 BPSK	270	0		19.32		20.0	0.0	
100	QPSK	1	1		19.50		20.0	0.0	
100	QPSK	1	137		19.30				
100	QPSK	1	271		19.29		20.0	0.0	
100	QPSK	135	0		19.32				
100	QPSK	135	69		19.35		20.0	0.0	
100	QPSK	135	138		19.25		20.0	0.0	
100	QPSK	270	0		19.27		20.0	0.0	
100	16QAM	1	1		19.19		20.0	0.0	
100	64QAM	1	1		19.35		20.0	0.0	
100	256QAM	1	1		19.49		20.0	0.0	
Channel					633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)					3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	123		18.98	19.24	19.18	20.0	0.0
Channel					632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)					3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	109		18.98	19.08	19.37	20.0	0.0
Channel					632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)					3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	95		19.10	19.98	19.19	20.0	0.0
Channel					632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)					3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	81		19.15	19.27	19.27	20.0	0.0
Channel					631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)					3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	67		18.92	19.21	19.18	20.0	0.0
Channel					631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)					3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	53		18.89	19.24	19.19	20.0	0.0
Channel					631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)					3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	39		19.23	19.16	19.17	20.0	0.0
Channel					630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)					3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	26		19.02	19.01	19.03	20.0	0.0
Channel					630500	633334	636168	Tune-up limit	MPR
Frequency (MHz)					3457.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	1		19.19	19.29	19.35	20.0	0.0
Channel					630334	633334	636334	Tune-up limit	MPR
Frequency (MHz)					3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1		19.08	19.21	19.31	20.0	0.0



Par27O n77 Ant11 DSH DFT-30									
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	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	20.13	20.20	20.08			
100	PI/2 BPSK	1	137	20.14	20.20	20.15	20.7	0.0	
100	PI/2 BPSK	1	271	20.18	20.08	20.13			
100	PI/2 BPSK	135	0	20.15	20.24	20.05	20.7	0.0	
100	PI/2 BPSK	135	69	20.23	20.35	20.32	20.7	0.0	
100	PI/2 BPSK	135	138	20.22	20.20	20.19	20.7	0.0	
100	PI/2 BPSK	270	0	19.97	20.12	20.20			
100	QPSK	1	1	20.06	20.27	20.10			
100	QPSK	1	137	20.18	20.23	20.11	20.7	0.0	
100	QPSK	1	271	20.11	20.01	20.06			
100	QPSK	135	0	20.15	20.24	20.15	20.7	0.0	
100	QPSK	135	69	20.17	20.38	20.06	20.7	0.0	
100	QPSK	135	138	19.98	20.20	20.19	20.7	0.0	
100	QPSK	270	0	20.10	20.20	20.17			
100	16QAM	1	1	19.95	20.03	20.05	20.7	0.0	
100	64QAM	1	1	20.04	20.37	20.09	20.7	0.0	
100	256QAM	1	1	20.22	20.16	20.06	20.7	0.0	
Channel				648668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	19.94	20.13	20.03	20.7	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	20.06	20.08	19.89	20.7	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	20.06	20.19	20.00	20.7	0.0	
Channel				648668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	20.03	20.21	20.00	20.7	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	19.96	20.09	20.05	20.7	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	20.05	20.23	20.04	20.7	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	19.98	20.21	20.01	20.7	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	20.05	20.23	20.06	20.7	0.0	
Channel				647168	656000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	19.96	20.07	19.99	20.7	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	19.86	20.15	19.93	20.7	0.0	

Part27Q n77 Ant11 DSH DFT-30									
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				630000	633334	636668			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI/2 BPSK	1	1	20.12	20.12	20.12			
100	PI/2 BPSK	1	137	20.09	20.09	20.09	20.7	0.0	
100	PI/2 BPSK	1	271	20.07	20.07	20.07			
100	PI/2 BPSK	135	0	20.05	20.05	20.05	20.7	0.0	
100	PI/2 BPSK	135	69	20.11	20.11	20.11	20.7	0.0	
100	PI/2 BPSK	135	138	20.05	20.05	20.05	20.7	0.0	
100	PI/2 BPSK	270	0	19.92	20.00	20.00	20.7	0.0	
100	QPSK	1	1	20.25	20.25	20.25			
100	QPSK	1	137	20.13	20.13	20.13	20.7	0.0	
100	QPSK	1	271	20.00	20.00	20.00			
100	QPSK	135	0	20.03	20.03	20.03	20.7	0.0	
100	QPSK	135	69	20.21	20.21	20.21	20.7	0.0	
100	QPSK	135	138	20.14	20.14	20.14	20.7	0.0	
100	QPSK	270	0	20.03	20.03	20.03	20.7	0.0	
100	16QAM	1	1	19.96	20.00	20.00	20.7	0.0	
100	64QAM	1	1	19.86	20.00	20.00	20.7	0.0	
100	256QAM	1	1	20.00	20.00	20.00	20.7	0.0	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	123	19.94	20.22	20.05	20.7	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	109	19.85	20.10	19.95	20.7	0.0	
Channel				632334	633334	634334	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)	
70	QPSK	1	95	20.08	20.20	19.91	20.7	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	81	19.91	20.17	20.01	20.7	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	67	19.88	20.07	19.99	20.7	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	53	20.02	20.16	20.09	20.7	0.0	
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	39	19.86	20.15	19.93	20.7	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	26	19.96	20.21	20.06	20.7	0.0	
Channel				630500	633334	636168	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)	
15	QPSK	1	1	20.05	20.23	20.04	20.7	0.0	
Channel				630334	633334	636334	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	1	20.03	20.21	20.00	20.7	0.0	



Part270 n78 Ant11 DS11 PC2&PC3 DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	22.45			23.0	0.0
100	PI/2 BPSK	1	137	22.52				
100	PI/2 BPSK	1	271	22.42			23.0	0.0
100	PI/2 BPSK	135	0	22.32				
100	PI/2 BPSK	135	69	22.45			23.0	0.0
100	PI/2 BPSK	135	138	22.45			23.0	0.0
100	PI/2 BPSK	270	0	22.43			23.0	0.0
100	QPSK	1	1	22.57			23.0	0.0
100	QPSK	1	137	22.46				
100	QPSK	1	271	22.38			23.0	0.0
100	QPSK	135	0	22.42				
100	QPSK	135	69	22.50			23.0	0.0
100	QPSK	135	138	22.49			23.0	0.0
100	QPSK	270	0	22.53			23.0	0.0
100	16QAM	1	1	22.28			23.0	0.0
100	64QAM	1	1	22.51			23.0	0.0
100	256QAM	1	1	22.01			22.5	0.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.40	22.41	22.50	23.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.37	22.23	22.41	23.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.47	22.35	22.40	23.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.38	22.41	22.47	23.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.43	22.25	22.52	23.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.42	22.26	22.37	23.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.48	22.33	22.41	23.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.35	22.24	22.51	23.0	0.0
Channel				647000	650000	652834		
Frequency (MHz)				3705	3750	3795		
15	QPSK	1	1	22.41	22.27	22.48	23.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.33	22.42	22.30	23.0	0.0

Part27Q n78 Ant11 DS11 PC2&PC3 DFT-30								
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				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	22.26			23.0	0.0
100	PI/2 BPSK	1	137	22.33				
100	PI/2 BPSK	1	271	22.28			23.0	0.0
100	PI/2 BPSK	135	0	22.33				
100	PI/2 BPSK	135	69	22.37			23.0	0.0
100	PI/2 BPSK	135	138	22.44			23.0	0.0
100	PI/2 BPSK	270	0	22.38			23.0	0.0
100	QPSK	1	1	22.59			23.0	0.0
100	QPSK	1	137	22.42				
100	QPSK	1	271	22.18			23.0	0.0
100	QPSK	135	0	22.27				
100	QPSK	135	69	22.46			23.0	0.0
100	QPSK	135	138	22.44			23.0	0.0
100	QPSK	270	0	22.45			23.0	0.0
100	16QAM	1	1	22.12			23.0	0.0
100	64QAM	1	1	22.31			23.0	0.0
100	256QAM	1	1	21.06			22.5	0.5
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	22.31	22.32	22.37	23.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	22.46	22.33	22.46	23.0	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	95	22.89	22.32	22.33	23.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	22.35	22.20	22.41	23.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	22.41	22.27	22.48	23.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	22.47	22.36	22.42	23.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	22.32	22.24	22.50	23.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	22.33	22.42	22.30	23.0	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	22.43	22.25	22.52	23.0	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	22.47	22.35	22.40	23.0	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)								
100	PI2 BPSK	1	1	24.32	24.48	24.51		
100	PI2 BPSK	1	137	24.41	24.36	24.35	25.7	0.0
100	PI2 BPSK	1	271	24.49	24.41	24.44		
100	PI2 BPSK	135	0	23.78	23.67	23.76	25.2	0.5
100	PI2 BPSK	135	69	24.20	24.22	24.18	25.7	0.0
100	PI2 BPSK	135	138	23.73	23.83	23.79		
100	PI2 BPSK	270	0	23.83	23.74	23.86	25.2	0.5
100	QPSK	1	1	24.31	24.38	24.35		
100	QPSK	1	137	24.44	24.44	24.48	25.7	0.0
100	QPSK	1	271	24.51	24.54	24.57		
100	QPSK	135	0	23.35	23.28	23.41	24.7	1.0
100	QPSK	135	69	24.18	24.20	24.34	25.7	0.0
100	QPSK	135	138	23.19	23.21	23.11		
100	QPSK	270	0	23.23	23.35	23.16	24.7	1.0
100	16QAM	1	1	23.19	23.22	23.04	24.7	1.0
100	64QAM	1	1	22.07	21.89	21.81	23.2	2.5
100	256QAM	1	1	19.90	19.71	19.81	21.2	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	24.26	24.27	24.33	25.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.33	24.33	24.27	25.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.49	24.43	24.30	25.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.32	24.32	24.38	25.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.31	24.38	24.25	25.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.30	24.21	24.41	25.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.40	24.23	24.51	25.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.42	24.32	24.29	25.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.43	24.53	24.43	25.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.53	24.43	24.42	25.7	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)								
100	PI2 BPSK	1	1		24.45			
100	PI2 BPSK	1	137		24.20		25.7	0.0
100	PI2 BPSK	1	271		24.49			
100	PI2 BPSK	135	0		23.68			
100	PI2 BPSK	135	69		24.16		25.7	0.0
100	PI2 BPSK	135	138		23.85			
100	PI2 BPSK	270	0		23.91		25.2	0.5
100	QPSK	1	1		24.63			
100	QPSK	1	137		24.50		25.7	0.0
100	QPSK	1	271		24.53			
100	QPSK	135	0		23.20			
100	QPSK	135	69		24.05		25.7	0.0
100	QPSK	135	138		23.31			
100	QPSK	270	0		23.26		24.7	1.0
100	16QAM	1	1		23.28		24.7	1.0
100	64QAM	1	1		21.92		23.2	2.5
100	256QAM	1	1		19.65		21.2	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	24.42	24.41	24.30	25.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	24.40	24.26	24.44	25.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	95	24.41	24.34	24.40	25.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	24.40	24.32	24.43	25.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	24.30	24.27	24.21	25.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	24.43	24.23	24.49	25.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	39	24.34	24.16	24.43	25.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	24.28	24.33	24.20	25.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.42	24.37	24.24	25.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.44	24.45	24.43	25.7	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)								
100	PI2 BPSK	1	1		23.05			
100	PI2 BPSK	1	137		22.91		24.0	0.0
100	PI2 BPSK	1	271		23.00			
100	PI2 BPSK	135	0		22.53		23.5	0.5
100	PI2 BPSK	135	69		22.91		24.0	0.0
100	PI2 BPSK	135	138		22.56			
100	PI2 BPSK	270	0		22.51		23.5	0.5
100	QPSK	1	1		23.10			
100	QPSK	1	137		22.89		24.0	0.0
100	QPSK	1	271		23.08			
100	QPSK	135	0		21.94		23.0	1.0
100	QPSK	135	69		23.05		24.0	0.0
100	QPSK	135	138		21.94			
100	QPSK	270	0		22.07		23.0	1.0
100	16QAM	1	1		22.00		23.0	1.0
100	64QAM	1	1		20.69		21.5	2.5
100	256QAM	1	1		19.51		19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.00	23.01	22.98	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.03	23.00	23.05	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.96	23.03	22.97	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.03	22.98	23.03	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.95	22.95	23.03	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.04	23.00	23.01	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.95	22.94	22.97	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.01	22.97	23.05	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.96	23.03	22.97	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.95	22.95	23.03	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								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.27	3500.01			
100	PI2 BPSK	1	137	23.01			24.0	0.0
100	PI2 BPSK	1	271	22.14				
100	PI2 BPSK	135	0	22.70				
100	PI2 BPSK	135	69	23.08			24.0	0.0
100	PI2 BPSK	135	138	22.73				
100	PI2 BPSK	270	0	22.61			23.5	0.5
100	QPSK	1	1	23.25				
100	QPSK	1	137	23.15			24.0	0.0
100	QPSK	1	271	23.26				
100	QPSK	135	0	22.04				
100	QPSK	135	69	23.16			24.0	0.0
100	QPSK	135	138	22.09				
100	QPSK	270	0	22.25			23.0	1.0
100	16QAM	1	1	22.19			23.0	1.0
100	64QAM	1	1	20.80			21.5	2.5
100	256QAM	1	1	19.82			19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	23.23	3500.01	3505.02	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	23.16	3500.01	3510	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	95	23.21	3500.01	3520	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	23.23	3500.01	3520.02	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	23.19	3500.01	3525	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	23.12	3500.01	3530	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	39	23.17	3500.01	3540	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	23.17	3500.01	3540	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.21	3500.01	3545.01	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.21	3500.01	3545.01	24.0	0.0

Part27Q n78 Ant12 DSH1 PC2 DFT-30

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.18	3750	3750		
100	PI2 BPSK	1	137	25.01			27.0	0.0
100	PI2 BPSK	1	271	25.13				
100	PI2 BPSK	135	0	24.80			26.5	0.5
100	PI2 BPSK	135	69	25.03			27.0	0.0
100	PI2 BPSK	135	138	24.64				
100	PI2 BPSK	270	0	24.85			26.5	0.5
100	QPSK	1	1	25.23				
100	QPSK	1	137	25.09			27.0	0.0
100	QPSK	1	271	25.15				
100	QPSK	135	0	24.03			26.0	1.0
100	QPSK	135	69	25.10			27.0	0.0
100	QPSK	135	138	24.07				
100	QPSK	270	0	24.18			26.0	1.0
100	16QAM	1	1	24.10			26.0	1.0
100	64QAM	1	1	22.73			24.5	2.5
100	256QAM	1	1	20.60			22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.09	65000	65034	25.05	27.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.12	65000	65034	25.05	27.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.98	65000	65034	24.86	27.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.90	65000	65034	25.04	27.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.21	65000	65034	25.06	27.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.10	65000	65034	25.03	27.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.08	65000	65034	24.99	27.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.96	65000	65034	25.07	27.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.03	65000	65034	25.05	27.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.12	65000	65034	25.13	27.0

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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)								
100	PI2 BPSK	1	1	25.03	3500.01			
100	PI2 BPSK	1	137	25.11			27.0	0.0
100	PI2 BPSK	1	271	25.08				
100	PI2 BPSK	135	0	24.60				
100	PI2 BPSK	135	69	25.14			27.0	0.0
100	PI2 BPSK	135	138	24.71				
100	PI2 BPSK	270	0	24.67			26.5	0.5
100	QPSK	1	1	25.27				
100	QPSK	1	137	25.07			27.0	0.0
100	QPSK	1	271	25.03				
100	QPSK	135	0	24.13				
100	QPSK	135	69	25.08			27.0	0.0
100	QPSK	135	138	24.19				
100	QPSK	270	0	24.01			26.0	1.0
100	16QAM	1	1	24.11			26.0	1.0
100	64QAM	1	1	22.89			24.5	2.5
100	256QAM	1	1	20.51			22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	25.22	3500.01	3505.02	25.02	27.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	25.01	3500.01	3510	24.99	27.0
Channel								
Frequency (MHz)								
70	QPSK	1	95	25.01	3500.01	3520	24.87	27.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	25.03	3500.01	3520.02	25.05	27.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	25.16	3500.01	3525	25.00	27.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	25.08	3500.01	3530	25.02	27.0
Channel								
Frequency (MHz)								
30	QPSK	1	39	25.12	3500.01	3540	25.02	27.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	24.84	3500.01	3540	24.92	27.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.21	3500.01	3545	25.06	27.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.10	3500.01	3545	25.07	27.0



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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)								
100	PI2 BPSK	1	1	25.04	25.10	25.11		
100	PI2 BPSK	1	137	25.04	25.07	25.09	25.7	0.0
100	PI2 BPSK	1	271	24.91	24.90	24.98		
100	PI2 BPSK	135	0	24.48	24.48	24.57	25.2	0.5
100	PI2 BPSK	135	69	25.01	24.84	24.98	25.7	0.0
100	PI2 BPSK	135	138	24.29	24.29	24.25	25.2	0.5
100	PI2 BPSK	270	0	24.58	24.49	24.53		
100	QPSK	1	1	25.04	25.12	25.07		
100	QPSK	1	137	24.88	25.08	25.08	25.7	0.0
100	QPSK	1	271	24.90	24.88	24.94		
100	QPSK	135	0	24.03	23.97	24.05	24.7	1.0
100	QPSK	135	69	25.08	25.11	25.01	25.7	0.0
100	QPSK	135	138	23.89	23.94	23.93	24.7	1.0
100	QPSK	270	0	24.01	24.04	23.98		
100	16QAM	1	1	23.88	23.92	23.91	24.7	1.0
100	16QAM	1	1	22.68	22.68	22.86	23.2	2.5
100	256QAM	1	1	20.54	20.55	20.02	21.2	4.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.85	25.08	25.05	25.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.96	24.98	24.86	25.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.83	24.93	24.88	25.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.84	24.97	25.11	25.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.84	24.97	25.11	25.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.02	25.10	25.04	25.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.98	25.08	24.94	25.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.92	25.03	24.92	25.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.43	24.53	24.43	25.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.53	24.43	24.42	25.7	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)								
100	PI2 BPSK	1	1		24.98			
100	PI2 BPSK	1	137		25.14		25.7	0.0
100	PI2 BPSK	1	271		24.90			
100	PI2 BPSK	135	0		24.49		25.2	0.5
100	PI2 BPSK	135	69		25.08		25.7	0.0
100	PI2 BPSK	135	138		24.48		25.2	0.5
100	PI2 BPSK	270	0		24.30		25.2	0.5
100	QPSK	1	1		25.30		25.7	0.0
100	QPSK	1	137		25.08		25.7	0.0
100	QPSK	1	271		24.90			
100	QPSK	135	0		24.08		25.7	0.0
100	QPSK	135	69		24.43		24.7	1.0
100	QPSK	135	138		23.80		24.7	1.0
100	QPSK	270	0		24.11		24.7	1.0
100	16QAM	1	1		23.89		24.7	1.0
100	16QAM	1	1		22.42		23.2	2.5
100	256QAM	1	1		20.55		21.2	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	24.92	25.01	25.21	25.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	24.83	24.88	25.05	25.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	85	24.79	25.07	24.94	25.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	25.18	25.13	24.67	25.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	24.72	24.87	24.94	25.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	24.85	24.94	25.23	25.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	39	24.98	24.96	25.00	25.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	25.14	25.25	25.05	25.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.42	24.37	24.24	25.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.44	24.45	24.33	25.7	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)								
100	PI2 BPSK	1	1		22.94		24.0	0.0
100	PI2 BPSK	1	137		22.87		24.0	0.0
100	PI2 BPSK	1	271		22.71		23.5	0.5
100	PI2 BPSK	135	0		22.38		24.0	0.0
100	PI2 BPSK	135	69		22.79		23.5	0.5
100	PI2 BPSK	135	138		22.39		24.0	0.0
100	PI2 BPSK	270	0		22.46		23.5	0.5
100	QPSK	1	1		23.22		24.0	0.0
100	QPSK	1	137		23.18		23.0	1.0
100	QPSK	1	271		22.93		21.5	2.5
100	QPSK	135	0		21.94		23.0	1.0
100	QPSK	135	69		23.01		24.0	0.0
100	QPSK	135	138		21.89		23.0	1.0
100	QPSK	270	0		21.82		23.0	1.0
100	16QAM	1	1		21.87		21.5	2.5
100	16QAM	1	1		20.37		19.5	4.5
100	256QAM	1	1		18.49		19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.13	23.08	23.07	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.17	23.13	23.13	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.10	23.07	23.13	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.08	23.17	23.09	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.14	23.10	23.14	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.08	23.15	23.10	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.12	23.17	23.07	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.17	23.18	23.11	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.96	23.03	22.97	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.95	22.95	23.03	24.0	0.0



Part27Q n78 Ant13 DSH PC3 DFT-30

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)				6300.01				
100	PI2 BPSK	1	1	22.88				
100	PI2 BPSK	1	137	23.27			24.0	0.0
100	PI2 BPSK	1	271	23.08				
100	PI2 BPSK	135	0	22.80			23.5	0.5
100	PI2 BPSK	135	69	22.91			24.0	0.0
100	PI2 BPSK	135	138	22.27			23.5	0.5
100	PI2 BPSK	270	0	22.28				
100	QPSK	1	1	23.95				
100	QPSK	1	137	23.45			24.0	0.0
100	QPSK	1	271	22.99				
100	QPSK	135	0	22.38			23.0	1.0
100	QPSK	135	69	23.17			24.0	0.0
100	QPSK	135	138	21.87			23.0	1.0
100	QPSK	270	0	21.89				
100	16QAM	1	1	21.65			23.0	1.0
100	64QAM	1	1	20.55			21.5	2.5
100	256QAM	1	1	19.55			18.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495				
90	QPSK	1	123	23.38	23.38	23.41	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02				
80	QPSK	1	109	23.41	23.38	23.37	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01				
70	QPSK	1	95	23.37	23.32	23.33	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480				
60	QPSK	1	81	23.38	23.38	23.31	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02				
50	QPSK	1	67	23.33	23.40	23.40	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01				
40	QPSK	1	53	23.32	23.32	23.38	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465				
30	QPSK	1	39	23.38	23.37	23.33	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02				
20	QPSK	1	26	23.35	23.29	23.32	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5				
15	QPSK	1	1	23.21	23.17	23.23	24.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01				
10	QPSK	1	1	23.21	23.12	23.10	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)				6500.01				
100	PI2 BPSK	1	1	25.83				
100	PI2 BPSK	1	137	25.81			27.0	0.0
100	PI2 BPSK	1	271	25.82				
100	PI2 BPSK	135	0	25.31			26.5	0.5
100	PI2 BPSK	135	69	25.70			27.0	0.0
100	PI2 BPSK	135	138	25.24			26.5	0.5
100	PI2 BPSK	270	0	25.28				
100	QPSK	1	1	26.10				
100	QPSK	1	137	26.02			27.0	0.0
100	QPSK	1	271	25.78				
100	QPSK	135	0	24.89			26.0	1.0
100	QPSK	135	69	25.89			27.0	0.0
100	QPSK	135	138	24.80			26.0	1.0
100	QPSK	270	0	24.75				
100	16QAM	1	1	24.62			26.0	1.0
100	64QAM	1	1	23.22			24.5	2.5
100	256QAM	1	1	21.41			22.5	4.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02				
90	QPSK	1	1	25.83	25.82	25.88	27.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01				
80	QPSK	1	1	25.83	25.85	25.98	27.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735				
70	QPSK	1	1	25.80	25.88	25.99	27.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02				
60	QPSK	1	1	25.88	25.92	25.83	27.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01				
50	QPSK	1	1	25.92	25.89	25.98	27.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720				
40	QPSK	1	1	25.98	25.91	25.97	27.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02				
30	QPSK	1	1	25.80	25.87	25.88	27.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01				
20	QPSK	1	1	25.83	25.89	25.98	27.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52				
15	QPSK	1	1	25.03	25.07	25.05	27.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705				
10	QPSK	1	1	25.12	25.02	25.13	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								
Frequency (MHz)				63500.01				
100	PI2 BPSK	1	1	25.73				
100	PI2 BPSK	1	137	26.02			27.0	0.0
100	PI2 BPSK	1	271	25.84				
100	PI2 BPSK	135	0	25.54			26.5	0.5
100	PI2 BPSK	135	69	25.68			27.0	0.0
100	PI2 BPSK	135	138	25.10			26.0	0.5
100	PI2 BPSK	270	0	25.09				
100	QPSK	1	1	25.87				
100	QPSK	1	137	26.20			27.0	0.0
100	QPSK	1	271	25.76				
100	QPSK	135	0	25.15			26.0	1.0
100	QPSK	135	69	25.94			27.0	0.0
100	QPSK	135	138	24.72			26.0	1.0
100	QPSK	270	0	24.72				
100	16QAM	1	1	24.48			26.0	1.0
100	64QAM	1	1	23.34			24.5	2.5
100	256QAM	1	1	21.38			22.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495				
90	QPSK	1	123	25.85	25.84	25.84	27.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02				
80	QPSK	1	109	25.80	25.92	25.88	27.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01				
70	QPSK	1	95	25.83	25.97	25.93	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480				
60	QPSK	1	81	25.73	25.83	25.71	27.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02				
50	QPSK	1	67	25.88	25.88	25.93	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01				
40	QPSK	1	53	25.91	25.86	25.93	27.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465				
30	QPSK	1	39	25.79	25.95	26.00	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02				
20	QPSK	1	26	25.76	25.79	25.89	27.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5				
15	QPSK	1	1	25.21	25.13	25.06	27.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01				
10	QPSK	1	1	25.10	25.13	25.07	27.0	0.0



n5 Ant0 DS3 DFT-15

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				166950	167300	167650		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	24.99	25.01	24.80		
20	PI2 BPSK	1	51	25.06	25.07	24.90	25.5	0.0
20	PI2 BPSK	1	104	24.74	24.96	24.95		
20	PI2 BPSK	50	0	24.55	24.53	24.43	25.0	0.5
20	PI2 BPSK	50	28	24.92	25.06	24.85	25.5	0.0
20	PI2 BPSK	50	56	24.46	24.49	24.36	25.0	0.5
20	PI2 BPSK	100	0	24.40	24.47	24.25		
20	QPSK	1	1	24.99	25.03	25.15		
20	QPSK	1	53	25.09	25.15	25.08	25.5	0.0
20	QPSK	1	104	24.97	25.13	25.06		
20	QPSK	50	0	23.94	24.09	23.97	24.5	1.0
20	QPSK	50	28	25.13	25.17	25.08	25.5	0.0
20	QPSK	50	56	23.93	24.05	23.94	24.5	1.0
20	QPSK	100	0	23.89	24.06	23.88		
20	16QAM	1	1	23.90	23.97	23.80	24.5	1.0
20	64QAM	1	1	22.36	22.43	22.37	23.0	2.5
20	256QAM	1	1	20.28	20.40	20.20	21.0	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	25.17	25.14	25.11	25.5	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	25.19	25.10	25.12	25.5	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	25.08	25.16	25.02	25.5	0.0

n7 Ant0 DS3 DFT-15

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	PI2 BPSK	1	1	22.82	22.80	22.59		
40	PI2 BPSK	1	108	22.55	22.83	22.64	23.5	0.0
40	PI2 BPSK	1	214	22.58	22.59	22.59		
40	PI2 BPSK	108	0	22.49	22.64	22.52	23.5	0.0
40	PI2 BPSK	108	54	22.58	22.59	22.51	23.5	0.0
40	PI2 BPSK	108	108	22.83	22.81	22.82	23.5	0.0
40	PI2 BPSK	216	0	22.52	22.83	22.58		
40	QPSK	1	1	22.51	22.87	22.50		
40	QPSK	1	108	22.55	22.85	22.81	23.5	0.0
40	QPSK	1	214	22.57	22.83	22.53		
40	QPSK	108	0	22.48	22.58	22.59	24.5	-1.0
40	QPSK	108	54	22.47	22.60	22.54	23.5	0.0
40	QPSK	108	108	22.46	22.55	22.55	24.5	-1.0
40	QPSK	216	0	22.51	22.54	22.48		
40	16QAM	1	1	22.50	22.86	22.80	23.5	0.0
40	64QAM	1	1	21.27	21.24	21.28	22.0	1.5
40	256QAM	1	1	18.13	18.10	18.17	20.0	3.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2615	2635	2655		
30	QPSK	1	1	22.41	22.54	22.35	23.5	0.0
Channel				50500	50900	511500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2612.5	2635	2657.5		
25	QPSK	1	1	22.82	22.56	22.56	23.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2610	2635	2650		
20	QPSK	1	1	22.41	22.39	22.44	23.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2607.5	2635	2662.5		
15	QPSK	1	1	22.42	22.55	22.85	23.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2605	2635	2668		
10	QPSK	1	1	22.51	22.55	22.83	23.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2602.5	2635	2670.5		
5	QPSK	1	1	22.48	22.50	22.50	23.5	0.0

n66 Ant0 DS3 DFT-15

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				345000	349000	353000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.70	22.75	22.77		
40	PI2 BPSK	1	108	22.90	22.93	22.89	24.5	0.0
40	PI2 BPSK	1	214	22.81	22.81	22.83		
40	PI2 BPSK	108	0	22.34	22.28	22.24	24.0	0.5
40	PI2 BPSK	108	54	22.84	22.87	22.83	24.5	0.0
40	PI2 BPSK	108	108	22.46	22.40	22.40	24.0	0.5
40	PI2 BPSK	216	0	22.43	22.41	22.46		
40	QPSK	1	1	22.91	22.85	22.85		
40	QPSK	1	108	22.94	22.92	22.93	24.5	0.0
40	QPSK	1	214	22.89	22.90	22.88		
40	QPSK	108	0	21.90	21.85	21.87	23.5	1.0
40	QPSK	108	54	22.86	22.91	22.80	24.5	0.0
40	QPSK	108	108	21.92	21.92	21.97	23.5	1.0
40	QPSK	216	0	21.91	21.99	21.95		
40	16QAM	1	1	22.08	22.07	22.03	23.5	1.0
40	64QAM	1	1	20.56	20.55	20.52	22.0	2.5
40	256QAM	1	1	18.17	18.10	18.07	20.0	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.72	22.71	22.74	24.5	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.75	22.81	22.84	24.5	0.0
Channel				345000	349000	354500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.76	22.70	22.75	24.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.67	22.78	22.83	24.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.76	22.75	22.86	24.5	0.0



n38 Ant0 DSI3 DFT-30								
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	PI/2 BPSK	1	1	20.95	20.88	20.87		
40	PI/2 BPSK	1	53	20.79	20.86	20.95	22.5	0.0
40	PI/2 BPSK	1	104	20.92	20.95	20.90		
40	PI/2 BPSK	50	0	20.14	20.16	20.12	22.0	0.5
40	PI/2 BPSK	50	28	20.96	20.96	20.96	22.5	0.0
40	PI/2 BPSK	50	56	20.56	20.58	20.55		
40	PI/2 BPSK	100	0	20.32	20.29	20.32	22.0	0.5
40	QPSK	1	1	20.96	20.99	20.86		
40	QPSK	1	53	20.96	20.95	20.92	22.5	0.0
40	QPSK	1	104	20.88	20.86	20.89		
40	QPSK	50	0	19.58	19.53	19.51	21.5	1.0
40	QPSK	50	28	20.70	20.73	20.69	22.5	0.0
40	QPSK	50	56	20.07	20.07	20.05		
40	QPSK	100	0	19.66	19.68	19.76	21.5	1.0
40	16QAM	1	1	19.86	19.92	19.87	21.5	1.0
40	64QAM	1	1	18.48	18.51	18.57	20.0	2.5
40	256QAM	1	1	16.63	16.60	16.59	18.0	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	20.83	20.86	20.76	22.5	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	20.90	20.96	20.92	22.5	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	20.92	20.85	20.87	22.5	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	20.85	20.95	20.89	22.5	0.0

n41 Ant0 DSI3 DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.86	20.88	20.90		
100	PI/2 BPSK	1	137	20.91	20.89	20.96	22.5	0.0
100	PI/2 BPSK	1	271	20.58	20.54	20.56		
100	PI/2 BPSK	135	0	20.30	20.29	20.29	22.0	0.5
100	PI/2 BPSK	135	69	20.91	20.92	20.96	22.5	0.0
100	PI/2 BPSK	135	138	20.61	20.56	20.56		
100	PI/2 BPSK	270	0	20.31	20.29	20.33	22.0	0.5
100	QPSK	1	1	20.97	21.00	20.98		
100	QPSK	1	137	20.92	20.93	20.99	22.5	0.0
100	QPSK	1	271	20.65	20.58	20.63		
100	QPSK	135	0	19.81	19.74	19.81	21.5	1.0
100	QPSK	135	69	20.75	20.81	20.76	22.5	0.0
100	QPSK	135	138	20.14	20.08	20.04		
100	QPSK	270	0	19.76	19.77	19.74	21.5	1.0
100	16QAM	1	1	19.72	19.72	19.75	21.5	1.0
100	64QAM	1	1	18.31	18.26	18.24	20.0	2.5
100	256QAM	1	1	16.82	16.83	16.83	18.0	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.03	20.89	20.93	22.5	0.0
Channel				507204	518598	529996		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.91	20.89	20.90	22.5	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.89	20.84	20.88	22.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.92	20.85	20.87	22.5	0.0
Channel				504204	518598	532996		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	20.82	20.93	20.95	22.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.86	20.89	20.87	22.5	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.85	20.95	20.89	22.5	0.0
Channel				501204	518598	535996		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.88	20.91	20.85	22.5	0.0



n7 Ant3 DS13 DFT-15								
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	PI/2 BPSK	1	1	21.36	21.26	21.23		
40	PI/2 BPSK	1	108	21.40	21.30	21.35	22.0	0.0
40	PI/2 BPSK	1	214	21.15	21.26	21.34		
40	PI/2 BPSK	108	0	21.28	21.32	21.34	22.0	0.0
40	PI/2 BPSK	108	54	21.16	21.18	21.17	22.0	0.0
40	PI/2 BPSK	108	108	21.09	21.19	21.22		
40	PI/2 BPSK	216	0	21.37	21.26	21.35	22.0	0.0
40	QPSK	1	1	21.46	21.47	21.31		
40	QPSK	1	108	21.41	21.29	21.19	22.0	0.0
40	QPSK	1	214	21.31	21.27	21.26		
40	QPSK	108	0	21.27	21.36	21.31	22.0	0.0
40	QPSK	108	54	21.26	21.15	21.11	22.0	0.0
40	QPSK	108	108	21.19	21.22	21.32		
40	QPSK	216	0	21.12	21.26	21.24	22.0	0.0
40	16QAM	1	1	21.34	21.35	21.39	22.0	0.0
40	64QAM	1	1	20.95	20.96	20.90	21.5	0.5
40	256QAM	1	1	18.72	18.74	18.75	19.5	2.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	22.0	0.0
30	QPSK	1	1	21.23	21.31	21.24		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	22.0	0.0
25	QPSK	1	1	21.24	21.18	21.22		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	22.0	0.0
20	QPSK	1	1	21.33	21.37	21.11		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	22.0	0.0
15	QPSK	1	1	21.15	21.05	21.21		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	22.0	0.0
10	QPSK	1	1	21.22	21.19	21.24		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	22.0	0.0
5	QPSK	1	1	21.37	21.11	21.18		

n66 Ant3 DS13 DFT-15								
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		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	21.73	21.81	21.84		
40	PI/2 BPSK	1	108	21.79	21.73	21.61	23.0	0.0
40	PI/2 BPSK	1	214	21.67	21.75	21.68		
40	PI/2 BPSK	108	0	21.68	21.67	21.61	23.0	0.0
40	PI/2 BPSK	108	54	21.77	21.72	21.78	23.0	0.0
40	PI/2 BPSK	108	108	21.63	21.72	21.70		
40	PI/2 BPSK	216	0	21.83	21.81	21.72	23.0	0.0
40	QPSK	1	1	21.76	21.85	21.83		
40	QPSK	1	108	21.70	21.73	21.72	23.0	0.0
40	QPSK	1	214	21.62	21.72	21.64		
40	QPSK	108	0	21.80	21.79	21.75	23.0	0.0
40	QPSK	108	54	21.73	21.82	21.63	23.0	0.0
40	QPSK	108	108	21.61	21.77	21.80		
40	QPSK	216	0	21.74	21.74	21.68	23.0	0.0
40	16QAM	1	1	21.82	21.84	21.70	23.0	0.0
40	64QAM	1	1	20.40	20.46	20.42	21.5	1.5
40	256QAM	1	1	18.37	18.25	18.24	19.5	3.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	23.0	0.0
30	QPSK	1	1	21.57	21.61	21.71		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	23.0	0.0
20	QPSK	1	1	21.58	21.73	21.63		
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	23.0	0.0
15	QPSK	1	1	21.59	21.78	21.72		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	23.0	0.0
10	QPSK	1	1	21.74	21.81	21.85		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	23.0	0.0
5	QPSK	1	1	21.70	21.86	21.79		



n38 Ant3 DSIS DFT-30								
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	PI/2 BPSK	1	1	20.93	20.84	20.88		
40	PI/2 BPSK	1	53	20.95	20.86	20.94	22.0	0.0
40	PI/2 BPSK	1	104	20.76	20.84	20.90		
40	PI/2 BPSK	50	0	20.97	20.88	20.80	22.0	0.0
40	PI/2 BPSK	50	28	20.80	20.80	20.71	22.0	0.0
40	PI/2 BPSK	50	56	20.66	20.77	20.69		
40	PI/2 BPSK	100	0	20.86	20.82	20.74	22.0	0.0
40	QPSK	1	1	20.86	20.98	20.96		
40	QPSK	1	53	20.94	20.95	20.88	22.0	0.0
40	QPSK	1	104	20.88	20.92	20.83		
40	QPSK	50	0	20.79	20.86	20.80	22.0	0.0
40	QPSK	50	28	20.74	20.91	20.73	22.0	0.0
40	QPSK	50	56	20.81	20.74	20.75	22.0	0.0
40	QPSK	100	0	20.81	20.90	20.88		
40	16QAM	1	1	20.79	20.70	20.73	22.0	0.0
40	64QAM	1	1	20.50	20.57	20.48	21.5	0.5
40	256QAM	1	1	18.60	18.63	18.02	19.5	2.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	20.85	20.66	20.68	22.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	20.77	20.70	20.68	22.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	20.80	20.70	20.83	22.0	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	20.77	20.70	20.68	22.0	0.0

n41 Ant3 DSIS DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	21.05	20.78	20.90		
100	PI/2 BPSK	1	137	20.85	20.87	20.74	22.0	0.0
100	PI/2 BPSK	1	271	20.97	20.74	20.90		
100	PI/2 BPSK	135	0	20.61	20.70	20.81	22.0	0.0
100	PI/2 BPSK	135	69	20.92	20.74	20.94	22.0	0.0
100	PI/2 BPSK	135	138	20.77	20.93	20.92		
100	PI/2 BPSK	270	0	20.81	20.78	20.89	22.0	0.0
100	QPSK	1	1	20.88	21.06	21.05		
100	QPSK	1	137	20.78	20.92	20.88	22.0	0.0
100	QPSK	1	271	20.50	20.54	20.56		
100	QPSK	135	0	20.78	20.91	20.73	22.0	0.0
100	QPSK	135	69	20.79	20.93	20.90	22.0	0.0
100	QPSK	135	138	20.77	20.90	20.80	22.0	0.0
100	QPSK	270	0	20.60	20.88	20.81		
100	16QAM	1	1	20.76	20.96	21.03	22.0	0.0
100	64QAM	1	1	20.08	20.13	20.16	21.5	0.5
100	256QAM	1	1	18.50	18.57	18.33	19.5	2.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.88	20.77	20.74	22.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.98	20.86	20.68	22.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.90	20.70	20.83	22.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.78	20.83	20.67	22.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	20.77	20.70	20.68	22.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.82	20.86	20.77	22.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.01	20.80	20.68	22.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.77	20.71	20.66	22.0	0.0



n7 Ant4 DS13 DFT-15								
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	PI/2 BPSK	1	1	20.28	20.24	20.18		
40	PI/2 BPSK	1	108	20.29	20.30	20.26	20.5	0.0
40	PI/2 BPSK	1	214	20.26	20.24	20.26		
40	PI/2 BPSK	108	0	20.18	20.29	20.32	20.5	0.0
40	PI/2 BPSK	108	54	20.14	20.18	20.08	20.5	0.0
40	PI/2 BPSK	108	108	20.27	20.23	20.28		
40	PI/2 BPSK	216	0	20.13	20.22	20.16	20.5	0.0
40	QPSK	1	1	20.28	20.33	20.28		
40	QPSK	1	108	20.26	20.32	20.28	20.5	0.0
40	QPSK	1	214	20.27	20.25	20.14		
40	QPSK	108	0	20.16	20.22	20.17	19.5	1.0
40	QPSK	108	54	20.15	20.26	20.15	20.5	0.0
40	QPSK	108	108	20.13	20.25	20.16		
40	QPSK	216	0	20.23	20.29	20.21	19.5	1.0
40	16QAM	1	1	20.18	20.29	20.20	20.5	0.0
40	64QAM	1	1	20.24	20.31	20.27	20.5	0.0
40	256QAM	1	1	20.14	20.25	20.23	20.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	20.5	0.0
30	QPSK	1	1	20.10	20.20	20.12		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	20.5	0.0
25	QPSK	1	1	20.05	20.12	20.05		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	20.5	0.0
20	QPSK	1	1	20.00	20.10	20.17		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	20.5	0.0
15	QPSK	1	1	20.14	20.22	20.12		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	20.5	0.0
10	QPSK	1	1	20.08	20.05	20.17		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	20.5	0.0
5	QPSK	1	1	20.27	20.06	20.20		

n66 Ant4_DS13 DFT-15								
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		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	21.72	21.66	21.63		
40	PI/2 BPSK	1	108	21.70	21.69	21.64	22.5	0.0
40	PI/2 BPSK	1	214	21.71	21.72	21.65		
40	PI/2 BPSK	108	0	21.67	21.68	21.66	22.5	0.0
40	PI/2 BPSK	108	54	21.63	21.65	21.66	22.5	0.0
40	PI/2 BPSK	108	108	21.70	21.69	21.70		
40	PI/2 BPSK	216	0	21.65	21.71	21.62	22.5	0.0
40	QPSK	1	1	21.62	21.73	21.69		
40	QPSK	1	108	21.59	21.65	21.69	22.5	0.0
40	QPSK	1	214	21.72	21.63	21.70		
40	QPSK	108	0	21.56	21.67	21.59	22.5	0.0
40	QPSK	108	54	21.60	21.69	21.66	22.5	0.0
40	QPSK	108	108	21.64	21.64	21.68		
40	QPSK	216	0	21.59	21.67	21.63	22.5	0.0
40	16QAM	1	1	21.72	21.71	21.65	22.5	0.0
40	64QAM	1	1	21.71	21.63	21.65	22.5	0.0
40	256QAM	1	1	20.17	20.12	20.04	21.0	1.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	22.5	0.0
30	QPSK	1	1	21.65	21.63	21.53		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	22.5	0.0
20	QPSK	1	1	21.70	21.47	21.50		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	22.5	0.0
15	QPSK	1	1	21.71	21.47	21.62		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	22.5	0.0
10	QPSK	1	1	21.64	21.67	21.57		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	22.5	0.0
5	QPSK	1	1	21.54	21.63	21.41		



n38 Ant4 DS13 DFT-30								
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	PI/2 BPSK	1	1	19.47	19.51	19.45		
40	PI/2 BPSK	1	53	19.35	19.35	19.31	19.5	0.0
40	PI/2 BPSK	1	104	19.36	19.45	19.50		
40	PI/2 BPSK	50	0	19.36	19.42	19.41	19.5	0.0
40	PI/2 BPSK	50	28	19.30	19.33	19.44	19.5	0.0
40	PI/2 BPSK	50	56	19.37	19.37	19.38		
40	PI/2 BPSK	100	0	19.48	19.45	19.43	19.5	0.0
40	QPSK	1	1	19.41	19.52	19.48		
40	QPSK	1	53	19.43	19.34	19.27	19.5	0.0
40	QPSK	1	104	19.50	19.45	19.49		
40	QPSK	50	0	19.22	19.31	19.27	19.5	0.0
40	QPSK	50	28	19.35	19.40	19.30	19.5	0.0
40	QPSK	50	56	19.33	19.39	19.38		
40	QPSK	100	0	19.26	19.37	19.31	19.5	0.0
40	16QAM	1	1	19.33	19.41	19.33	19.5	0.0
40	64QAM	1	1	19.49	19.51	19.43	19.5	0.0
40	256QAM	1	1	19.46	19.40	19.36	19.5	0.0
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99	19.5	0.0
30	QPSK	1	1	19.33	19.47	19.25		
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	19.31	19.50	19.26	19.5	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	19.13	19.26	19.16	19.5	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	19.04	19.23	19.20	19.5	0.0

n41 Ant4_DS13 DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	21.12	21.10	21.07		
100	PI/2 BPSK	1	137	21.06	21.09	21.12	21.5	0.0
100	PI/2 BPSK	1	271	21.05	21.12	21.09		
100	PI/2 BPSK	135	0	21.04	21.04	21.11	21.5	0.0
100	PI/2 BPSK	135	69	20.99	21.07	21.03	21.5	0.0
100	PI/2 BPSK	135	138	20.96	21.00	21.12		
100	PI/2 BPSK	270	0	21.01	21.02	20.97	21.5	0.0
100	QPSK	1	1	21.07	21.13	21.08		
100	QPSK	1	137	21.11	21.05	21.12	21.5	0.0
100	QPSK	1	271	21.06	21.10	21.09		
100	QPSK	135	0	21.07	21.06	21.00	21.5	0.0
100	QPSK	135	69	21.08	21.10	20.95	21.5	0.0
100	QPSK	135	138	20.92	20.94	20.87		
100	QPSK	270	0	20.92	21.09	20.98	21.5	0.0
100	16QAM	1	1	21.02	21.11	21.08	21.5	0.0
100	64QAM	1	1	21.00	21.07	21.05	21.5	0.0
100	256QAM	1	1	20.61	20.54	20.59	21.0	0.5
Channel				509200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.08	21.09	21.02	21.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.01	21.03	20.91	21.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.00	20.92	20.87	21.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.97	20.93	20.95	21.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.05	20.90	20.95	21.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.07	21.08	20.86	21.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	21.04	20.88	21.02	21.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.95	20.88	20.86	21.5	0.0



Par270 n77_FCC Ant10 DS18 DFT-30									
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)				65000	65000	65000			
100	PI2 BPSK	1	1	23.93	24.05	24.03			
100	PI2 BPSK	1	137	24.13	24.15	24.13			
100	PI2 BPSK	1	271	23.95	24.06	24.04			
100	PI2 BPSK	135	0	24.00	24.02	24.08	24.7	0.0	
100	PI2 BPSK	135	69	24.06	24.03	24.06	24.7	0.0	
100	PI2 BPSK	135	138	24.15	24.06	24.02	24.7	0.0	
100	PI2 BPSK	270	0	23.85	23.89	23.93			
100	QPSK	1	1	24.13	24.02	24.05			
100	QPSK	1	137	24.17	24.15	24.11	24.7	0.0	
100	QPSK	1	271	24.14	24.03	23.98			
100	QPSK	135	0	23.96	24.03	23.95	24.7	0.0	
100	QPSK	135	69	24.06	24.06	23.92	24.7	0.0	
100	QPSK	135	138	23.99	23.89	23.78	24.7	0.0	
100	QPSK	270	0	23.82	24.07	23.97			
100	16QAM	1	1	23.89	23.97	23.90	24.7	0.0	
100	16QAM	1	1	22.58	22.58	22.46	23.2	1.5	
100	256QAM	1	1	20.40	20.51	20.58	21.2	3.5	
Channel									
Frequency (MHz)				64968	65000	65234	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	23.81	24.00	24.09	24.7	0.0	
Channel									
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	24.02	24.07	24.03	24.7	0.0	
Channel									
Frequency (MHz)				64900	65000	65300	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	23.85	24.08	23.95	24.7	0.0	
Channel									
Frequency (MHz)				64868	65000	65334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	24.00	24.12	24.04	24.7	0.0	
Channel									
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	23.82	24.00	23.98	24.7	0.0	
Channel									
Frequency (MHz)				64800	65000	65400	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	23.95	24.04	24.03	24.7	0.0	
Channel									
Frequency (MHz)				64768	65000	65434	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.98	24.09	24.04	24.7	0.0	
Channel									
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	24.01	24.09	23.98	24.7	0.0	
Channel									
Frequency (MHz)				647168	65000	65434	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.82	24.00	23.98	24.7	0.0	
Channel									
Frequency (MHz)				647000	65000	65500	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.85	24.08	23.95	24.7	0.0	

Par270 n77 Ant10 Default DFT-30									
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)				63000	63334	63500			
100	PI2 BPSK	1	1	23.75					
100	PI2 BPSK	1	137	24.05			24.7	0.0	
100	PI2 BPSK	1	271	23.92					
100	PI2 BPSK	135	0	23.43					
100	PI2 BPSK	135	69	24.00			24.7	0.0	
100	PI2 BPSK	135	138	23.32					
100	PI2 BPSK	270	0	23.37			24.7	0.5	
100	QPSK	1	1	24.13					
100	QPSK	1	137	23.79			24.7	0.0	
100	QPSK	1	271	23.53					
100	QPSK	135	0	22.82			24.7	0.0	
100	QPSK	135	69	23.77					
100	QPSK	135	138	22.91					
100	QPSK	270	0	22.85			24.7	1.0	
100	16QAM	1	1	22.71			24.7	1.0	
100	16QAM	1	1	21.16			23.2	2.5	
100	256QAM	1	1	19.27			21.2	4.5	
Channel									
Frequency (MHz)				63000	63334	63568	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	23.81	24.00	24.09	24.7	0.0	
Channel									
Frequency (MHz)				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	23.95	24.04	24.03	24.7	0.0	
Channel									
Frequency (MHz)				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3483.01	3500.01	3515.01			
Channel									
Frequency (MHz)				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3480	3500.01	3520.02	24.03	24.7	0.0
Channel									
Frequency (MHz)				63168	63334	63500	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	24.02	24.07	24.03	24.03	24.7	0.0
Channel									
Frequency (MHz)				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3478.01	3500.01	3533.01			
Channel									
Frequency (MHz)				63100	63334	63568	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3465	3500.01	3535.02	24.03	24.7	0.0
Channel									
Frequency (MHz)				63068	63334	63500	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	24.01	24.09	23.98	24.03	24.7	0.0
Channel									
Frequency (MHz)				63000	63334	63618	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3475	3500.01	3542.02			
Channel									
Frequency (MHz)				63034	63334	63634	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3455.01	3500.01	3545.01			

Par270 n78_Ant10_DS18 DFT-30									
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)				65000					
100	PI2 BPSK	1	1	22.01					
100	PI2 BPSK	1	137	22.11			22.7	0.0	
100	PI2 BPSK	1	271	22.17					
100	PI2 BPSK	135	0	22.02					
100	PI2 BPSK	135	69	22.05			22.7	0.0	
100	PI2 BPSK	135	138	21.97					
100	PI2 BPSK	270	0	22.01			22.7	0.0	
100	QPSK	1	1	22.03					
100	QPSK	1	137	22.01			22.7	0.0	
100	QPSK	1	271	22.12					
100	QPSK	135	0	22.02			22.7	0.0	
100	QPSK	135	69	22.16			22.7	0.0	
100	QPSK	135	138	22.07					
100	QPSK	270	0	21.95			22.7	0.0	
100	16QAM	1	1	22.14			22.7	0.0	
100	16QAM	1	1	22.21			22.7	0.0	
100	256QAM	1	1	22.02			22.7	0.0	
Channel									
Frequency (MHz)				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	21.98	21.95	21.88	22.7	0.0	
Channel									
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	22.00	22.00	21.99	22.7	0.0	
Channel									
Frequency (MHz)				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	21.92	22.07	21.91	22.7	0.0	
Channel									
Frequency (MHz)				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	22.08	22.08	21.88	22.7	0.0	
Channel									
Frequency (MHz)				3720	3750	3760	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	21.97	21.96	21.93	22.7	0.0	
Channel									
Frequency (MHz)				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	21.94	22.00	21.99	22.7	0.0	
Channel									
Frequency (MHz)				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.07	22.03	21.88	22.7	0.0	
Channel									
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	21.99	21.93	22.00	22.7	0.0	
Channel									
Frequency (MHz)				647168	65000	65234	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	21.98	21.95	21.88	22.7	0.0	
Channel									
Frequency (MHz)				647000	65000	65300	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.08	22.08	21.88	22.7	0.0	



Part27Q n78 Ant10 DS13 PC3 DFT-30								
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				63334				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	22.00				
100	PI2 BPSK	1	137	22.00			22.7	0.0
100	PI2 BPSK	1	271	22.16			22.7	0.0
100	PI2 BPSK	135	0	21.92			22.7	0.0
100	PI2 BPSK	135	69	22.01			22.7	0.0
100	PI2 BPSK	135	138	21.96			22.7	0.0
100	PI2 BPSK	270	0	21.96			22.7	0.0
100	QPSK	1	1	22.10				
100	QPSK	1	137	21.98			22.7	0.0
100	QPSK	1	271	22.04			22.7	0.0
100	QPSK	135	0	21.96			22.7	0.0
100	QPSK	135	69	22.15			22.7	0.0
100	QPSK	135	138	21.93			22.7	0.0
100	QPSK	270	0	21.84			22.7	0.0
100	16QAM	1	1	22.02			22.7	0.0
100	84QAM	1	1	22.16			22.7	0.0
100	256QAM	1	1	21.97			22.7	0.0
Channel				63300	63334	63368	Tune-up limit (dB)	MPR
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	123	21.94	21.82	21.85	22.7	0.0
Channel				63268	63334	63400	Tune-up limit (dB)	MPR
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	21.85	21.90	21.76	22.7	0.0
Channel				63234	63334	63434	Tune-up limit (dB)	MPR
Frequency (MHz)				3485.01	3500.01	3516.01		
70	QPSK	1	95	21.84	21.88	21.85	22.7	0.0
Channel				63200	63334	63468	Tune-up limit (dB)	MPR
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	21.85	21.87	21.85	22.7	0.0
Channel				63168	63334	63500	Tune-up limit (dB)	MPR
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	21.85	21.88	21.83	22.7	0.0
Channel				63134	63334	63534	Tune-up limit (dB)	MPR
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	21.86	21.88	21.74	22.7	0.0
Channel				63100	63334	63588	Tune-up limit (dB)	MPR
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	21.92	21.94	21.74	22.7	0.0
Channel				63068	63334	63600	Tune-up limit (dB)	MPR
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	21.84	21.87	21.83	22.7	0.0
Channel				63050	63334	63618	Tune-up limit (dB)	MPR
Frequency (MHz)				3457.02	3500.01	3542.02		
15	QPSK	1	1	21.84	21.88	21.85	22.7	0.0
Channel				63034	63334	63634	Tune-up limit (dB)	MPR
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	21.95	21.88	21.83	22.7	0.0

Part27Q n78 Ant10 DS13 PC2 DFT-30								
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				
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	23.27			24.0	0.0
100	PI2 BPSK	1	137	23.26			20.5	3.5
100	PI2 BPSK	1	271	23.37			24.0	0.0
100	PI2 BPSK	135	0	23.30			24.0	0.0
100	PI2 BPSK	135	69	23.23			20.5	3.5
100	PI2 BPSK	135	138	23.31			23.5	0.5
100	PI2 BPSK	270	0	23.40			24.0	0.0
100	QPSK	1	1	23.38			20.5	3.5
100	QPSK	1	271	23.32			20.5	3.5
100	QPSK	135	0	23.33			24.0	0.0
100	QPSK	135	69	23.37			20.5	3.5
100	QPSK	135	138	23.36			23.5	0.5
100	QPSK	270	0	23.36			23.0	1.0
100	16QAM	1	1	23.30			21.5	2.5
100	84QAM	1	1	23.26			19.5	4.5
100	256QAM	1	1	22.01				
Channel				64968	65000	65034	Tune-up limit (dB)	MPR
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	23.27	23.31	22.87	24.0	0.0
Channel				64934	65000	65068	Tune-up limit (dB)	MPR
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	23.21	23.23	22.85	24.0	0.0
Channel				64900	65000	65100	Tune-up limit (dB)	MPR
Frequency (MHz)				3736	3750	3762		
70	QPSK	1	1	23.07	23.44	22.83	24.0	0.0
Channel				64868	65000	65134	Tune-up limit (dB)	MPR
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	23.23	23.37	22.97	24.0	0.0
Channel				64834	65000	65168	Tune-up limit (dB)	MPR
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	23.09	23.22	23.02	24.0	0.0
Channel				64800	65000	65200	Tune-up limit (dB)	MPR
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	23.17	23.27	22.95	24.0	0.0
Channel				64768	65000	65234	Tune-up limit (dB)	MPR
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	23.13	23.40	22.82	24.0	0.0
Channel				64734	65000	65268	Tune-up limit (dB)	MPR
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	23.10	23.33	22.82	24.0	0.0
Channel				64718	65000	65284	Tune-up limit (dB)	MPR
Frequency (MHz)				3707.02	3750	3792.01		
15	QPSK	1	1	23.13	23.40	22.82	24.0	0.0
Channel				64700	65000	65300	Tune-up limit (dB)	MPR
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	23.09	23.22	23.02	24.0	0.0

Part27Q n78 Ant10 DS13 PC2 DFT-30								
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				63334				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	23.19			24.0	0.0
100	PI2 BPSK	1	137	23.19			20.5	3.5
100	PI2 BPSK	1	271	23.33			24.0	0.0
100	PI2 BPSK	135	0	23.24			20.5	3.5
100	PI2 BPSK	135	69	23.15			24.0	0.0
100	PI2 BPSK	135	138	23.28			20.5	3.5
100	PI2 BPSK	270	0	23.24			23.5	0.5
100	QPSK	1	1	23.27			24.0	0.0
100	QPSK	1	137	23.28			20.5	3.5
100	QPSK	1	271	23.26			21.5	2.5
100	QPSK	135	0	23.29			24.0	0.0
100	QPSK	135	69	23.32			20.5	3.5
100	QPSK	135	138	23.21			23.5	0.5
100	QPSK	270	0	23.29			23.0	1.0
100	16QAM	1	1	23.16			21.5	2.5
100	84QAM	1	1	23.17			19.5	4.5
100	256QAM	1	1	21.98				
Channel				63300	63334	63368	Tune-up limit (dB)	MPR
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	123	23.19	23.26	22.85	24.0	0.0
Channel				63268	63334	63400	Tune-up limit (dB)	MPR
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	23.19	23.25	22.82	24.0	0.0
Channel				63234	63334	63434	Tune-up limit (dB)	MPR
Frequency (MHz)				3485.01	3500.01	3516.01		
70	QPSK	1	95	23.19	23.27	22.85	24.0	0.0
Channel				63200	63334	63468	Tune-up limit (dB)	MPR
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	23.21	23.28	22.79	24.0	0.0
Channel				63168	63334	63500	Tune-up limit (dB)	MPR
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	23.14	23.26	22.81	24.0	0.0
Channel				63134	63334	63534	Tune-up limit (dB)	MPR
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	23.14	23.29	22.85	24.0	0.0
Channel				63100	63334	63568	Tune-up limit (dB)	MPR
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	23.18	23.21	22.84	24.0	0.0
Channel				63068	63334	63600	Tune-up limit (dB)	MPR
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	23.14	23.27	22.77	24.0	0.0
Channel				63050	63334	63618	Tune-up limit (dB)	MPR
Frequency (MHz)				3457.02	3500.01	3542.02		
15	QPSK	1	1	23.14	23.26	22.81	24.0	0.0
Channel				63034	63334	63634	Tune-up limit (dB)	MPR
Frequency (MHz)				3455	3500.01	3545		
10	QPSK	1	1	23.19	23.25	22.82	24.0	0.0



n5 Ant0 DSD4 FT-15							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				834	836.5	838	
20	PI2 BPSK	1	1	24.99	25.01	24.80	25.5
20	PI2 BPSK	1	53	25.06	25.07	24.90	25.5
20	PI2 BPSK	1	104	24.74	24.96	24.95	25.0
20	PI2 BPSK	50	0	24.55	24.53	24.43	25.0
20	PI2 BPSK	50	28	24.92	25.06	24.85	25.5
20	PI2 BPSK	50	58	24.46	24.49	24.36	25.0
20	PI2 BPSK	100	0	24.40	24.47	24.28	25.0
20	QPSK	1	1	24.89	25.20	25.15	25.5
20	QPSK	1	53	25.09	25.15	25.08	25.5
20	QPSK	1	104	24.97	25.13	25.06	25.5
20	QPSK	50	0	23.94	24.09	23.97	24.5
20	QPSK	50	28	25.13	25.17	25.08	25.5
20	QPSK	50	58	23.93	24.05	23.94	24.5
20	QPSK	100	0	23.89	24.06	23.88	24.5
20	16QAM	1	1	23.80	23.97	23.80	24.5
20	16QAM	1	1	22.39	22.43	22.37	23.0
20	256QAM	1	1	20.29	20.40	20.20	21.0
Channel							
Frequency (MHz)				169300	167300	168300	
15	QPSK	1	1	25.17	25.14	25.11	25.5
Channel							
Frequency (MHz)				829	836.5	844	
10	QPSK	1	1	25.19	25.10	25.12	25.5
Channel							
Frequency (MHz)				165300	167300	169300	
5	QPSK	1	1	25.08	25.16	25.02	25.5

n7 Ant0 DSD4 FT-15							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				2620	2635	2650	
40	PI2 BPSK	1	1	23.29	23.47	23.40	24.5
40	PI2 BPSK	1	108	23.24	23.36	23.18	24.5
40	PI2 BPSK	1	214	23.24	23.38	23.19	24.5
40	PI2 BPSK	108	0	22.73	22.86	22.72	24.0
40	PI2 BPSK	108	54	23.21	23.39	23.27	24.5
40	PI2 BPSK	108	108	22.82	22.82	22.81	24.0
40	PI2 BPSK	216	0	22.79	22.96	22.72	24.0
40	QPSK	1	1	23.47	23.53	23.40	24.5
40	QPSK	1	108	23.29	23.33	23.18	24.5
40	QPSK	1	214	23.16	23.32	23.17	24.5
40	QPSK	108	0	22.24	22.40	22.27	23.5
40	QPSK	108	54	23.29	23.44	23.40	24.5
40	QPSK	108	108	22.39	22.42	22.41	23.5
40	QPSK	216	0	22.35	22.39	22.18	23.5
40	16QAM	1	1	22.33	22.44	22.44	23.5
40	16QAM	1	1	20.81	20.82	20.66	22.0
40	256QAM	1	1	19.04	19.08	18.99	20.0
Channel							
Frequency (MHz)				509000	507000	511000	
30	QPSK	1	1	23.16	23.32	23.30	24.5
Channel							
Frequency (MHz)				2512.5	2535	2555	
25	QPSK	1	1	23.16	23.38	23.29	24.5
Channel							
Frequency (MHz)				509000	507000	512000	
20	QPSK	1	1	23.19	23.41	23.30	24.5
Channel							
Frequency (MHz)				501500	507000	512500	
15	QPSK	1	1	23.15	23.34	23.34	24.5
Channel							
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	1	23.17	23.38	23.37	24.5
Channel							
Frequency (MHz)				506500	507000	513500	
5	QPSK	1	1	23.23	23.38	23.34	24.5

n6 Ant0 DSD4 FT-15							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				1750	1745	1760	
40	PI2 BPSK	1	1	22.70	22.75	22.77	24.5
40	PI2 BPSK	1	108	22.90	22.93	22.89	24.5
40	PI2 BPSK	1	214	22.81	22.81	22.83	24.5
40	PI2 BPSK	108	0	22.34	22.28	22.24	24.0
40	PI2 BPSK	108	54	22.84	22.87	22.83	24.5
40	PI2 BPSK	108	108	22.46	22.40	22.40	24.0
40	PI2 BPSK	216	0	22.43	22.41	22.46	24.0
40	QPSK	1	1	22.91	22.95	22.85	24.5
40	QPSK	1	108	22.94	22.92	22.93	24.5
40	QPSK	1	214	22.89	22.90	22.86	24.5
40	QPSK	108	0	21.90	21.85	21.87	23.5
40	QPSK	108	54	22.86	22.91	22.90	24.5
40	QPSK	108	108	21.92	21.92	21.97	23.5
40	QPSK	216	0	21.91	21.99	21.93	23.5
40	16QAM	1	1	22.08	22.07	22.03	23.5
40	16QAM	1	1	20.58	20.55	20.52	22.0
40	256QAM	1	1	18.17	18.10	18.07	20.0
Channel							
Frequency (MHz)				345000	349000	353000	
30	QPSK	1	1	22.72	22.71	22.74	24.5
Channel							
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	22.75	22.81	22.84	24.5
Channel							
Frequency (MHz)				343500	349000	354500	
15	QPSK	1	1	22.76	22.70	22.75	24.5
Channel							
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	22.87	22.76	22.83	24.5
Channel							
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	22.76	22.75	22.86	24.5



n38 Ant0 DS4 DFT-30								
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	PI/2 BPSK	1	1	20.95	20.88	20.87		
40	PI/2 BPSK	1	53	20.79	20.86	20.95	22.5	0.0
40	PI/2 BPSK	1	104	20.92	20.95	20.90		
40	PI/2 BPSK	50	0	20.14	20.16	20.12	22.0	0.5
40	PI/2 BPSK	50	28	20.96	20.96	20.96	22.5	0.0
40	PI/2 BPSK	50	56	20.56	20.58	20.55		
40	PI/2 BPSK	100	0	20.32	20.29	20.32	22.0	0.5
40	QPSK	1	1	20.96	20.99	20.86		
40	QPSK	1	53	20.96	20.95	20.92	22.5	0.0
40	QPSK	1	104	20.88	20.86	20.89		
40	QPSK	50	0	19.58	19.53	19.51	21.5	1.0
40	QPSK	50	28	20.70	20.73	20.69	22.5	0.0
40	QPSK	50	56	20.07	20.07	20.05		
40	QPSK	100	0	19.66	19.68	19.60	21.5	1.0
40	16QAM	1	1	19.86	19.92	19.87	21.5	1.0
40	64QAM	1	1	18.48	18.51	18.57	20.0	2.5
40	256QAM	1	1	16.63	16.60	16.59	18.0	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	20.83	20.86	20.76	22.5	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	20.90	20.96	20.92	22.5	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	20.91	20.89	20.90	22.5	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	20.82	20.93	20.95	22.5	0.0

n41 Ant0 DS4 DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.86	20.88	20.90		
100	PI/2 BPSK	1	137	20.91	20.89	20.96	22.5	0.0
100	PI/2 BPSK	1	271	20.58	20.54	20.56		
100	PI/2 BPSK	135	0	20.30	20.29	20.29	22.0	0.5
100	PI/2 BPSK	135	69	20.91	20.92	20.96	22.5	0.0
100	PI/2 BPSK	135	138	20.61	20.56	20.56		
100	PI/2 BPSK	270	0	20.31	20.29	20.33	22.0	0.5
100	QPSK	1	1	20.97	21.00	20.98		
100	QPSK	1	137	20.92	20.93	20.99	22.5	0.0
100	QPSK	1	271	20.65	20.58	20.63		
100	QPSK	135	0	19.81	19.74	19.81	21.5	1.0
100	QPSK	135	69	20.75	20.81	20.76	22.5	0.0
100	QPSK	135	138	20.14	20.08	20.04		
100	QPSK	270	0	19.76	19.77	19.74	21.5	1.0
100	16QAM	1	1	19.72	19.72	19.75	21.5	1.0
100	64QAM	1	1	18.31	18.26	18.24	20.0	2.5
100	256QAM	1	1	16.82	16.83	16.83	18.0	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.93	20.89	20.93	22.5	0.0
Channel				507204	518598	529996		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.91	20.89	20.90	22.5	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.89	20.84	20.88	22.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.92	20.85	20.87	22.5	0.0
Channel				504204	518598	532996		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	20.82	20.93	20.95	22.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.86	20.89	20.87	22.5	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.85	20.95	20.89	22.5	0.0
Channel				501204	518598	535996		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.88	20.91	20.85	22.5	0.0



n5 Ant1 DSI4 FT-15								
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				166300	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	25.01	24.94	24.97	25.7	0.0
20	PI/2 BPSK	1	53	24.91	24.96	24.94		
20	PI/2 BPSK	1	104	24.76	24.83	24.75		
20	PI/2 BPSK	50	0	24.36	24.32	24.27	25.2	0.5
20	PI/2 BPSK	50	28	24.82	24.87	24.96	25.7	0.0
20	PI/2 BPSK	50	56	24.31	24.25	24.31	25.2	0.5
20	PI/2 BPSK	100	0	24.30	24.32	24.44		
20	QPSK	1	1	24.90	25.04	24.97	25.7	0.0
20	QPSK	1	53	24.91	24.84	24.82		
20	QPSK	1	104	24.79	24.72	24.64		
20	QPSK	50	0	23.94	23.97	23.97	24.7	1.0
20	QPSK	50	28	24.87	24.95	24.83	25.7	0.0
20	QPSK	50	56	23.75	23.84	23.77	24.7	1.0
20	QPSK	100	0	23.89	23.95	23.93		
20	16QAM	1	1	24.06	24.07	23.99	24.7	1.0
20	64QAM	1	1	22.44	22.40	22.50	23.2	2.5
20	256QAM	1	1	20.24	20.24	20.15	21.2	4.5
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	24.93	24.83	24.88	25.7	0.0
Channel				165900	167300	168300	Tune-up limit	MPR
Frequency (MHz)				839	836.5	844	(dBm)	(dB)
10	QPSK	1	1	24.78	24.85	24.92	25.7	0.0
Channel				165300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	24.82	24.83	24.79	25.7	0.0



n7 Ant3 DS14 FT-15								
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	PI/2 BPSK	1	1	23.07	23.18	23.19	24.0	0.0
40	PI/2 BPSK	1	108	23.05	23.15	23.13		
40	PI/2 BPSK	1	214	22.96	23.06	22.97		
40	PI/2 BPSK	108	0	22.56	22.66	22.54	23.5	0.5
40	PI/2 BPSK	108	54	23.07	23.15	23.11	24.0	0.0
40	PI/2 BPSK	108	108	22.58	22.66	22.71	23.5	0.5
40	PI/2 BPSK	216	0	22.49	22.56	22.49		
40	QPSK	1	1	23.18	23.20	23.19	24.0	0.0
40	QPSK	1	108	23.09	23.16	23.13		
40	QPSK	1	214	23.16	23.11	23.01		
40	QPSK	108	0	22.20	22.10	22.06	23.0	1.0
40	QPSK	108	54	23.03	23.13	23.11	24.0	0.0
40	QPSK	108	108	22.13	22.08	22.06	23.0	1.0
40	QPSK	216	0	21.99	22.09	22.05		
40	16QAM	1	1	22.34	22.42	22.34	23.0	1.0
40	64QAM	1	1	20.79	20.75	20.75	21.5	2.5
40	256QAM	1	1	18.74	18.62	18.57	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	24.0	0.0
30	PI/2 BPSK	1	1	22.92	23.00	23.10	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	24.0	0.0
25	PI/2 BPSK	1	1	22.97	23.18	23.00	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	24.0	0.0
20	QPSK	1	1	22.94	23.00	23.01	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0
15	QPSK	1	1	22.92	23.11	23.04	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	24.0	0.0
10	QPSK	1	1	22.92	23.05	23.08	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0
5	QPSK	1	1	22.99	23.13	23.18	24.0	0.0

n66 Ant3 DS14 FT-15								
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		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	22.74	22.78	22.81	24.0	0.0
40	PI/2 BPSK	1	108	22.64	22.73	22.67		
40	PI/2 BPSK	1	214	22.76	22.72	22.77		
40	PI/2 BPSK	108	0	22.06	22.16	22.19	23.5	0.5
40	PI/2 BPSK	108	54	22.81	22.69	22.70	24.0	0.0
40	PI/2 BPSK	108	108	22.13	22.17	22.25	23.5	0.5
40	PI/2 BPSK	216	0	22.28	22.28	22.40		
40	QPSK	1	1	22.80	22.82	22.73	24.0	0.0
40	QPSK	1	108	22.78	22.76	22.66		
40	QPSK	1	214	22.71	22.79	22.70		
40	QPSK	108	0	21.79	21.76	21.66	23.0	1.0
40	QPSK	108	54	22.61	22.70	22.68	24.0	0.0
40	QPSK	108	108	21.73	21.73	21.82	23.0	1.0
40	QPSK	216	0	21.75	21.80	21.72		
40	16QAM	1	1	22.05	22.01	21.96	23.0	1.0
40	64QAM	1	1	20.45	20.45	20.35	21.5	2.5
40	256QAM	1	1	18.28	18.20	18.13	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	24.0	0.0
30	PI/2 BPSK	1	1	22.71	22.75	22.84	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	22.68	22.73	22.70	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	22.63	22.63	22.68	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	22.71	22.88	22.70	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	22.54	22.79	22.84	24.0	0.0



n38 Ant3 DS4 DFT-30								
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	PI/2 BPSK	1	1	23.14	23.17	23.03		
40	PI/2 BPSK	1	53	22.94	23.12	22.91	24.0	0.0
40	PI/2 BPSK	1	104	23.01	23.16	23.11		
40	PI/2 BPSK	50	0	22.55	22.62	22.54	23.5	0.5
40	PI/2 BPSK	50	28	22.91	23.04	22.93	24.0	0.0
40	PI/2 BPSK	50	56	22.47	22.61	22.42		
40	PI/2 BPSK	100	0	22.49	22.59	22.38	23.5	0.5
40	QPSK	1	1	23.16	23.16	23.05		
40	QPSK	1	53	23.01	23.16	22.96	24.0	0.0
40	QPSK	1	104	23.06	23.17	23.17		
40	QPSK	50	0	22.02	22.11	22.11	23.0	1.0
40	QPSK	50	28	23.01	23.07	23.02	24.0	0.0
40	QPSK	50	56	22.17	22.19	22.15		
40	QPSK	100	0	21.86	22.07	21.84	23.0	1.0
40	16QAM	1	1	22.01	22.13	21.95	23.0	1.0
40	64QAM	1	1	20.63	20.74	20.53	21.5	2.5
40	256QAM	1	1	18.50	18.71	18.56	19.5	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2655.01	2659	2664.99		
30	QPSK	1	1	23.01	23.15	23.17	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2680	2695	2610		
20	QPSK	1	1	23.07	23.08	22.99	24.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2677.51	2695	2612.49		
15	PI/2 BPSK	1	1	22.12	22.25	22.23	24.0	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2675.02	2695	2614.98		
10	PI/2 BPSK	1	1	22.17	22.23	22.17	24.0	0.0

n41 Ant3 DS4 DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.96	22.88	22.86		
100	PI/2 BPSK	1	137	22.79	22.84	22.72	24.0	0.0
100	PI/2 BPSK	1	271	22.94	22.86	22.83		
100	PI/2 BPSK	135	0	22.13	22.25	22.25	23.5	0.5
100	PI/2 BPSK	135	69	22.86	22.84	22.90	24.0	0.0
100	PI/2 BPSK	135	138	22.63	22.71	22.73		
100	PI/2 BPSK	270	0	22.31	22.38	22.29	23.5	0.5
100	QPSK	1	1	22.88	22.99	22.94		
100	QPSK	1	137	22.62	22.98	22.86	24.0	0.0
100	QPSK	1	271	22.49	22.50	22.53		
100	QPSK	135	0	21.68	21.86	21.77	23.0	1.0
100	QPSK	135	69	22.88	22.97	22.86	24.0	0.0
100	QPSK	135	138	21.67	21.84	21.89		
100	QPSK	270	0	21.73	21.85	21.84	23.0	1.0
100	16QAM	1	1	21.86	21.89	21.93	23.0	1.0
100	64QAM	1	1	20.09	20.13	20.11	21.5	2.5
100	256QAM	1	1	18.44	18.53	18.44	19.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611	2692.99	2644.98		
90	QPSK	1	1	22.88	22.77	22.74	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2636.02	2692.99	2649.99		
80	QPSK	1	1	22.86	22.86	22.68	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2692.99	2655		
70	QPSK	1	1	22.90	22.79	22.83	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2692.99	2659.98		
60	QPSK	1	1	22.78	22.83	22.67	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2621.02	2692.99	2664.99		
50	QPSK	1	1	22.77	22.79	22.68	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2616.01	2692.99	2670		
40	QPSK	1	1	22.62	22.86	22.77	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611	2692.99	2674.98		
30	QPSK	1	1	22.01	22.80	22.68	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2606.02	2692.99	2679.99		
20	QPSK	1	1	22.77	22.71	22.66	24.0	0.0



n7 Ant4 DS14 FT-15								
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	PI/2 BPSK	1	1	25.36	25.24	25.27	25.5	0.0
40	PI/2 BPSK	1	108	25.23	25.24	25.22		
40	PI/2 BPSK	1	214	25.20	25.23	25.16		
40	PI/2 BPSK	108	0	24.75	24.77	24.81		
40	PI/2 BPSK	108	54	25.26	25.32	25.24	25.5	0.0
40	PI/2 BPSK	108	108	24.75	24.79	24.72	25.0	0.5
40	PI/2 BPSK	216	0	24.79	24.75	24.75		
40	QPSK	1	1	25.12	25.37	25.34	25.5	0.0
40	QPSK	1	108	25.18	25.20	25.30		
40	QPSK	1	214	25.30	25.18	25.18		
40	QPSK	108	0	24.13	24.20	24.08		
40	QPSK	108	54	25.24	25.27	25.26	25.5	0.0
40	QPSK	108	108	24.36	24.25	24.15	24.5	1.0
40	QPSK	216	0	24.14	24.22	24.18		
40	16QAM	1	1	24.46	24.42	24.33	24.5	1.0
40	64QAM	1	1	22.91	22.88	22.98	23.0	2.5
40	256QAM	1	1	20.92	20.86	20.78	21.0	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	25.15	25.06	25.09	25.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	25.10	25.21	25.13	25.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	25.25	25.09	25.16	25.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	25.21	25.04	25.24	25.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	25.32	25.22	25.11	25.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	25.22	25.21	25.12	25.5	0.0

n66 Ant4 DS14 FT-15								
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		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	24.38	24.49	24.41	25.5	0.0
40	PI/2 BPSK	1	108	24.50	24.51	24.65		
40	PI/2 BPSK	1	214	24.54	24.60	24.65		
40	PI/2 BPSK	108	0	24.06	24.09	23.97		
40	PI/2 BPSK	108	54	24.61	24.65	24.59	25.5	0.0
40	PI/2 BPSK	108	108	24.18	24.09	24.12	25.0	0.5
40	PI/2 BPSK	216	0	24.18	24.17	24.12		
40	QPSK	1	1	24.65	24.66	24.55	25.5	0.0
40	QPSK	1	108	24.64	24.60	24.61		
40	QPSK	1	214	24.35	24.46	24.45		
40	QPSK	108	0	23.65	23.57	23.62		
40	QPSK	108	54	24.62	24.64	24.59	25.5	0.0
40	QPSK	108	108	23.60	23.62	23.59	24.5	1.0
40	QPSK	216	0	23.58	23.68	23.60		
40	16QAM	1	1	24.00	23.94	24.00	24.5	1.0
40	64QAM	1	1	22.19	22.14	22.12	23.0	2.5
40	256QAM	1	1	20.17	20.12	20.16	21.0	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	24.28	24.37	24.20	25.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	24.24	24.37	24.20	25.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	24.28	24.43	24.26	25.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	24.28	24.30	24.24	25.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	24.27	24.36	24.30	25.5	0.0



n38 Ant4 DS14 DFT-30								
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	PI/2 BPSK	1	1	25.09	25.01	24.91		
40	PI/2 BPSK	1	53	24.98	25.09	24.98	25.5	0.0
40	PI/2 BPSK	1	104	25.00	25.06	25.02		
40	PI/2 BPSK	50	0	24.67	24.65	24.74	25.0	0.5
40	PI/2 BPSK	50	28	25.10	25.07	25.15	25.5	0.0
40	PI/2 BPSK	50	56	24.52	24.60	24.60		
40	PI/2 BPSK	100	0	24.51	24.59	24.50	25.0	0.5
40	QPSK	1	1	25.00	25.15	25.12		
40	QPSK	1	53	25.10	25.07	25.14	25.5	0.0
40	QPSK	1	104	25.05	25.12	25.02		
40	QPSK	50	0	24.25	24.16	24.13	24.5	1.0
40	QPSK	50	28	25.08	25.16	25.09	25.5	0.0
40	QPSK	50	56	24.14	24.25	24.32	24.5	1.0
40	QPSK	100	0	24.33	24.48	24.40		
40	16QAM	1	1	23.72	23.75	23.79	24.5	1.0
40	64QAM	1	1	22.38	22.41	22.50	23.0	2.5
40	256QAM	1	1	20.66	20.55	20.49	21.0	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	24.91	24.81	24.85	25.5	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	25.05	24.89	24.76	25.5	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	24.42	24.55	24.60	25.5	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	24.45	24.44	24.50	25.5	0.0

n41 Ant4 DS14 DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	24.71	24.62	24.73		
100	PI/2 BPSK	1	137	24.89	24.90	24.85	25.5	0.0
100	PI/2 BPSK	1	271	24.76	24.85	24.89		
100	PI/2 BPSK	135	0	24.11	24.12	24.00	25.0	0.5
100	PI/2 BPSK	135	69	24.86	24.84	24.82	25.5	0.0
100	PI/2 BPSK	135	138	24.51	24.48	24.45		
100	PI/2 BPSK	270	0	24.41	24.41	24.38	25.0	0.5
100	QPSK	1	1	24.81	24.92	24.79		
100	QPSK	1	137	24.76	24.75	24.66	25.5	0.0
100	QPSK	1	271	24.81	24.80	24.78		
100	QPSK	135	0	23.91	24.01	24.11	24.5	1.0
100	QPSK	135	69	24.83	24.87	24.68	25.5	0.0
100	QPSK	135	138	24.06	24.03	23.96		
100	QPSK	270	0	23.88	23.96	23.92	24.5	1.0
100	16QAM	1	1	23.88	23.91	23.86	24.5	1.0
100	64QAM	1	1	22.59	22.53	22.47	23.0	2.5
100	256QAM	1	1	20.32	20.35	20.43	21.0	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	24.78	24.51	24.83	25.5	0.0
Channel				507204	518598	529996		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	24.67	24.72	24.74	25.5	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	24.72	24.65	24.71	25.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	24.59	24.50	24.65	25.5	0.0
Channel				504204	518598	532996		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	24.80	24.60	24.61	25.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	24.82	24.68	24.61	25.5	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	24.76	24.59	24.82	25.5	0.0
Channel				501204	518598	535996		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	24.66	24.51	24.76	25.5	0.0



n7 Ant5 DS14 FT-15								
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	PI/2 BPSK	1	1	21.64	21.65	21.58		
40	PI/2 BPSK	1	108	21.56	21.60	21.63	23.0	0.0
40	PI/2 BPSK	1	214	21.60	21.58	21.51		
40	PI/2 BPSK	108	0	21.10	21.05	21.01	22.5	0.5
40	PI/2 BPSK	108	54	21.54	21.53	21.58	23.0	0.0
40	PI/2 BPSK	108	108	21.14	21.07	21.06		
40	PI/2 BPSK	216	0	20.95	21.05	21.02	22.5	0.5
40	QPSK	1	1	21.64	21.68	21.55		
40	QPSK	1	108	21.67	21.58	21.60	23.0	0.0
40	QPSK	1	214	21.43	21.52	21.62		
40	QPSK	108	0	20.62	20.55	20.61	22.0	1.0
40	QPSK	108	54	21.48	21.49	21.40	23.0	0.0
40	QPSK	108	108	20.50	20.57	20.58	22.0	1.0
40	QPSK	216	0	20.46	20.65	20.58		
40	16QAM	1	1	20.78	20.89	20.91	22.0	1.0
40	64QAM	1	1	19.35	19.34	19.39	20.5	2.5
40	256QAM	1	1	19.35	19.33	19.42	18.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	23.0	0.0
30	QPSK	1	1	21.60	21.49	21.45		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	23.0	0.0
25	QPSK	1	1	21.43	21.65	21.43		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	23.0	0.0
20	QPSK	1	1	21.62	21.47	21.43		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	23.0	0.0
15	QPSK	1	1	21.45	21.64	21.39		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	23.0	0.0
10	QPSK	1	1	21.64	21.61	21.43		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	23.0	0.0
5	QPSK	1	1	21.44	21.63	21.55		

n66 Ant5 DS14 FT-15								
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		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	21.61	21.73	21.75		
40	PI/2 BPSK	1	108	21.77	21.75	21.67	23.0	0.0
40	PI/2 BPSK	1	214	21.60	21.72	21.64		
40	PI/2 BPSK	108	0	21.32	21.25	21.33	22.5	0.5
40	PI/2 BPSK	108	54	21.71	21.67	21.59	23.0	0.0
40	PI/2 BPSK	108	108	21.13	21.22	21.28		
40	PI/2 BPSK	216	0	21.28	21.24	21.20	22.5	0.5
40	QPSK	1	1	21.60	21.78	21.72		
40	QPSK	1	108	21.73	21.74	21.66	23.0	0.0
40	QPSK	1	214	21.71	21.76	21.75		
40	QPSK	108	0	20.86	20.77	20.86	22.0	1.0
40	QPSK	108	54	21.57	21.68	21.59	23.0	0.0
40	QPSK	108	108	20.76	20.74	20.64	22.0	1.0
40	QPSK	216	0	20.72	20.79	20.67		
40	16QAM	1	1	20.87	20.90	20.95	22.0	1.0
40	64QAM	1	1	19.45	19.35	19.29	20.5	2.5
40	256QAM	1	1	19.34	19.39	19.40	18.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	23.0	0.0
30	QPSK	1	1	21.54	21.55	21.71		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	23.0	0.0
20	QPSK	1	1	21.57	21.62	21.68		
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	23.0	0.0
15	QPSK	1	1	21.58	21.61	21.66		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	23.0	0.0
10	QPSK	1	1	21.46	21.80	21.76		
Channel				342000	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	23.0	0.0
5	QPSK	1	1	21.59	21.71	21.76		



n38 Ant5 DS4 DFT-30								
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	PI/2 BPSK	1	1	24.59	24.57	24.63		
40	PI/2 BPSK	1	53	24.55	24.53	24.46	25.7	0.0
40	PI/2 BPSK	1	104	24.61	24.63	24.52		
40	PI/2 BPSK	50	0	23.90	24.02	23.93	25.2	0.5
40	PI/2 BPSK	50	28	24.53	24.48	24.38	25.7	0.0
40	PI/2 BPSK	50	56	24.09	24.10	24.12		
40	PI/2 BPSK	100	0	24.10	23.98	23.90	25.2	0.5
40	QPSK	1	1	24.57	24.65	24.61		
40	QPSK	1	53	24.50	24.56	24.48	25.7	0.0
40	QPSK	1	104	24.58	24.60	24.58		
40	QPSK	50	0	23.55	23.53	23.50	24.7	1.0
40	QPSK	50	28	24.40	24.45	24.42	25.7	0.0
40	QPSK	50	56	23.57	23.58	23.47	24.7	1.0
40	QPSK	100	0	23.37	23.47	23.37		
40	16QAM	1	1	23.95	23.87	23.93	24.7	1.0
40	64QAM	1	1	22.25	22.27	22.16	23.2	2.5
40	256QAM	1	1	19.89	20.03	19.97	21.2	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	24.42	24.43	24.43	25.7	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	24.45	24.48	24.45	25.7	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	24.42	24.55	24.60	25.7	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	24.45	24.44	24.50	25.7	0.0

n41 Ant5 DS4 DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	24.56	24.60	24.65		
100	PI/2 BPSK	1	137	24.56	24.56	24.63	25.7	0.0
100	PI/2 BPSK	1	271	24.51	24.51	24.52		
100	PI/2 BPSK	135	0	23.87	23.99	24.06	25.2	0.5
100	PI/2 BPSK	135	69	24.65	24.54	24.50	25.7	0.0
100	PI/2 BPSK	135	138	24.01	24.04	24.15		
100	PI/2 BPSK	270	0	23.85	23.94	23.95	25.2	0.5
100	QPSK	1	1	24.62	24.69	24.67		
100	QPSK	1	137	24.53	24.58	24.62	25.7	0.0
100	QPSK	1	271	24.65	24.65	24.57		
100	QPSK	135	0	23.44	23.49	23.41	24.7	1.0
100	QPSK	135	69	24.38	24.48	24.45	25.7	0.0
100	QPSK	135	138	23.56	23.57	23.58		
100	QPSK	270	0	23.45	23.51	23.36	24.7	1.0
100	16QAM	1	1	23.72	23.78	23.87	24.7	1.0
100	64QAM	1	1	22.16	22.17	22.09	23.2	2.5
100	256QAM	1	1	20.08	19.97	20.06	21.2	4.5
Channel				509200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	24.46	24.57	24.48	25.7	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	24.38	24.41	24.63	25.7	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	24.42	24.54	24.44	25.7	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	24.45	24.52	24.51	25.7	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	24.42	24.55	24.64	25.7	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	24.48	24.49	24.56	25.7	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	24.45	24.44	24.50	25.7	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	24.42	24.40	24.64	25.7	0.0



Par270 n77 Ant10 DS4 DFT-30

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	PI2 BPSK	1	1	24.81	24.93	24.85		
100	PI2 BPSK	1	137	24.92	24.88	24.87	25.7	0.0
100	PI2 BPSK	1	271	24.86	24.89	24.91		
100	PI2 BPSK	135	0	24.24	24.35	24.31	25.2	0.5
100	PI2 BPSK	135	69	24.93	24.90	24.86	25.7	0.0
100	PI2 BPSK	135	138	24.27	24.28	24.38		
100	PI2 BPSK	270	0	24.25	24.25	24.30	25.2	0.5
100	QPSK	1	1	24.94	23.02	24.92		
100	QPSK	1	137	24.81	24.87	24.76	25.7	0.0
100	QPSK	1	271	24.72	24.72	24.87		
100	QPSK	135	0	23.70	23.77	23.84	24.7	1.0
100	QPSK	135	69	24.78	24.80	24.73	25.7	0.0
100	QPSK	135	138	23.68	23.73	23.85		
100	QPSK	270	0	23.77	23.87	23.80	24.7	1.0
100	16QAM	1	1	23.90	23.91	23.88	24.7	1.0
100	64QAM	1	1	22.12	22.09	22.16	23.2	2.5
100	256QAM	1	1	20.20	20.21	20.13	21.2	4.5
Channel								
Frequency (MHz)				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	24.88	24.84	24.82	25.7	0.0
Channel								
Frequency (MHz)				3740.01	3840	3940.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	24.66	24.90	24.85	25.7	0.0
Channel								
Frequency (MHz)				64900	65000	65000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	24.74	24.72	24.80	25.7	0.0
Channel								
Frequency (MHz)				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	24.79	24.80	24.75	25.7	0.0
Channel								
Frequency (MHz)				3725.01	3840	3955.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	24.64	24.85	24.76	25.7	0.0
Channel								
Frequency (MHz)				64800	65000	65000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	24.68	24.89	24.83	25.7	0.0
Channel								
Frequency (MHz)				64768	65000	65034	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	24.74	24.73	24.79	25.7	0.0
Channel								
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	24.68	24.81	24.81	25.7	0.0
Channel								
Frequency (MHz)				647168	65000	65034	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	24.43	24.53	24.43	25.7	0.0
Channel								
Frequency (MHz)				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	24.53	24.33	24.42	25.7	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)				3900.01				
100	PI2 BPSK	1	1		24.78			
100	PI2 BPSK	1	137		25.05		25.7	0.0
100	PI2 BPSK	1	271		24.92			
100	PI2 BPSK	135	0		24.43			
100	PI2 BPSK	135	69		25.00		25.7	0.0
100	PI2 BPSK	135	138		24.32			
100	PI2 BPSK	270	0		24.37		25.2	0.5
100	QPSK	1	1		25.13			
100	QPSK	1	137		24.79		25.7	0.0
100	QPSK	1	271		24.53			
100	QPSK	135	0		23.82		25.7	0.0
100	QPSK	135	69		24.77			
100	QPSK	135	138		23.91			
100	QPSK	270	0		23.85		24.7	1.0
100	16QAM	1	1		23.71		24.7	1.0
100	64QAM	1	1		22.16		23.2	2.5
100	256QAM	1	1		20.27		21.2	4.5
Channel								
Frequency (MHz)				63000	63334	63668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	24.80	24.90	24.75	25.7	0.0
Channel								
Frequency (MHz)				3485.01	3500.01	3515.01	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	24.51	25.07	24.69	25.7	0.0
Channel								
Frequency (MHz)				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	24.88	25.07	24.70	25.7	0.0
Channel								
Frequency (MHz)				63000	63334	63668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	24.72	24.96	24.83	25.7	0.0
Channel								
Frequency (MHz)				63168	63334	63500	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	24.87	24.99	24.86	25.7	0.0
Channel								
Frequency (MHz)				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	24.57	24.97	24.73	25.7	0.0
Channel								
Frequency (MHz)				63100	63334	63668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	24.77	24.81	24.79	25.7	0.0
Channel								
Frequency (MHz)				63068	63334	63500	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	24.74	24.70	24.76	25.7	0.0
Channel								
Frequency (MHz)				63050	63334	63618	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	24.42	24.37	24.24	25.7	0.0
Channel								
Frequency (MHz)				63034	63334	63634	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	24.44	24.45	24.33	25.7	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	3750	3750		
100	PI2 BPSK	1	1		25.11			
100	PI2 BPSK	1	137		25.13		25.7	0.0
100	PI2 BPSK	1	271		25.08			
100	PI2 BPSK	135	0		25.23		25.2	0.5
100	PI2 BPSK	135	69		25.26		25.7	0.0
100	PI2 BPSK	135	138		25.11		25.2	0.5
100	PI2 BPSK	270	0		25.01		25.7	0.0
100	QPSK	1	1		25.33			
100	QPSK	1	137		25.30		25.7	0.0
100	QPSK	1	271		25.08			
100	QPSK	135	0		25.03		24.7	1.0
100	QPSK	135	69		25.10		25.7	0.0
100	QPSK	135	138		25.09		24.7	1.0
100	QPSK	270	0		25.13			
100	16QAM	1	1		24.38		24.7	1.0
100	64QAM	1	1		22.86		23.2	2.5
100	256QAM	1	1		20.78		21.2	4.5
Channel								
Frequency (MHz)				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	25.14	25.29	24.90	25.7	0.0
Channel								
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.27	25.03	25.14	25.7	0.0
Channel								
Frequency (MHz)				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.14	25.02	25.03	25.7	0.0
Channel								
Frequency (MHz)				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.10	25.02	24.87	25.7	0.0
Channel								
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.28	25.12	25.00	25.7	0.0
Channel								
Frequency (MHz)				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.17	25.07	24.89	25.7	0.0
Channel								
Frequency (MHz)				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.20	25.31	25.14	25.7	0.0
Channel								
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.12	25.14	25.04	25.7	0.0
Channel								
Frequency (MHz)				647168	65000	65234	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	24.27	24.31	24.30	25.7	0.0
Channel								
Frequency (MHz)				3705	3750	3795	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	24.22	24.29	24.35	25.7	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)				3500.01				
100	PI2 BPSK	1	1	24.74				
100	PI2 BPSK	1	137	24.76			25.7	0.0
100	PI2 BPSK	1	271	24.97				
100	PI2 BPSK	135	0	24.76			25.2	0.5
100	PI2 BPSK	135	69	24.97			25.7	0.0
100	PI2 BPSK	135	138	24.79			25.2	0.5
100	PI2 BPSK	270	0	24.77				
100	QPSK	1	1	25.08				
100	QPSK	1	137	25.01			25.7	0.0
100	QPSK	1	271	24.77				
100	QPSK	135	0	24.58			24.7	1.0
100	QPSK	135	69	24.75			25.7	0.0
100	QPSK	135	138	24.71			24.7	1.0
100	QPSK	270	0	24.91				
100	16QAM	1	1	24.01			24.7	1.0
100	64QAM	1	1	22.44			23.2	2.5
100	256QAM	1	1	20.44			21.2	4.5
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3500.01			3505.02	
90	QPSK	1	1	24.60	24.73	24.73	25.7	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3500.01			3510.00	
80	QPSK	1	1	24.84	24.81	24.54	25.7	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3500.01			3520.02	
70	QPSK	1	1	24.70	24.81	24.74	25.7	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3500.01			3520.02	
60	QPSK	1	1	24.76	24.82	24.66	25.7	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3500.01			3525.00	
50	QPSK	1	1	24.77	24.85	24.53	25.7	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3500.01			3530.01	
40	QPSK	1	1	24.82	24.86	24.72	25.7	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3500.01			3535.02	
30	QPSK	1	1	24.71	24.88	24.62	25.7	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3500.01			3540.00	
20	QPSK	1	1	24.73	24.53	24.66	25.7	0.0
Channel								
Frequency (MHz)				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3500.01			3542.82	
15	QPSK	1	1	24.97	25.18	25.07	25.7	0.0
Channel								
Frequency (MHz)				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3500.01			3545.01	
10	QPSK	1	1	25.12	25.30	25.20	25.7	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				
100	PI2 BPSK	1	1	26.29				
100	PI2 BPSK	1	137	26.22			27.0	0.0
100	PI2 BPSK	1	271	26.07				
100	PI2 BPSK	135	0	26.20			26.5	0.5
100	PI2 BPSK	135	69	26.29			27.0	0.0
100	PI2 BPSK	135	138	26.31			26.5	0.5
100	PI2 BPSK	270	0	26.09				
100	QPSK	1	1	26.34				
100	QPSK	1	137	26.23			27.0	0.0
100	QPSK	1	271	26.31				
100	QPSK	135	0	26.20			26.0	1.0
100	QPSK	135	69	26.22			27.0	0.0
100	QPSK	135	138	26.10			26.0	1.0
100	QPSK	270	0	26.10				
100	16QAM	1	1	25.27			26.0	1.0
100	64QAM	1	1	23.83			24.5	2.5
100	256QAM	1	1	21.88			22.5	4.5
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02			3755.01	
90	QPSK	1	1	26.18	26.32	25.63	27.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01			3760.02	
80	QPSK	1	1	26.11	26.25	25.98	27.0	0.0
Channel								
Frequency (MHz)				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735.00			3765.00	
70	QPSK	1	1	26.21	26.25	26.11	27.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02			3770.01	
60	QPSK	1	1	26.18	26.15	25.63	27.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01			3775.02	
50	QPSK	1	1	26.25	26.15	26.05	27.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.00			3780.00	
40	QPSK	1	1	26.27	26.13	25.91	27.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02			3785.01	
30	QPSK	1	1	26.08	26.23	26.09	27.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01			3790.02	
20	QPSK	1	1	26.07	26.16	26.09	27.0	0.0
Channel								
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52			3792.51	
15	QPSK	1	1	25.81	25.94	26.03	27.0	0.0
Channel								
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705.00			3795.00	
10	QPSK	1	1	26.03	25.93	26.01	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								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	25.91				
100	PI2 BPSK	1	137	26.00			27.0	0.0
100	PI2 BPSK	1	271	25.91				
100	PI2 BPSK	135	0	25.91			26.5	0.5
100	PI2 BPSK	135	69	25.99			27.0	0.0
100	PI2 BPSK	135	138	25.93			26.5	0.5
100	PI2 BPSK	270	0	25.92				
100	QPSK	1	1	26.14				
100	QPSK	1	137	26.11			27.0	0.0
100	QPSK	1	271	25.96				
100	QPSK	135	0	25.90			26.0	1.0
100	QPSK	135	69	25.93			27.0	0.0
100	QPSK	135	138	25.82			26.0	1.0
100	QPSK	270	0	25.88				
100	16QAM	1	1	25.07			26.0	1.0
100	64QAM	1	1	23.63			24.5	2.5
100	256QAM	1	1	21.61			22.5	4.5
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495.00			3505.02	
90	QPSK	1	1	26.07	26.00	25.70	27.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02			3510.01	
80	QPSK	1	1	25.88	26.04	25.78	27.0	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01			3520.01	
70	QPSK	1	1	26.06	25.15	25.90	27.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.00			3520.02	
60	QPSK	1	1	26.08	25.93	25.70	27.0	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02			3530.01	
50	QPSK	1	1	25.92	26.10	25.87	27.0	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01			3530.01	
40	QPSK	1	1	25.97	25.06	25.90	27.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465.00			3535.02	
30	QPSK	1	1	26.03	26.08	25.86	27.0	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02			3540.01	
20	QPSK	1	1	25.91	25.99	25.85	27.0	0.0
Channel								
Frequency (MHz)				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.00			3542.82	
15	QPSK	1	1	26.77	26.80	26.86	27.0	0.0
Channel								
Frequency (MHz)				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.00			3545.01	
10	QPSK	1	1	26.79	26.81	26.73	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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	23.99	24.15	24.22			
100	PI/2 BPSK	1	137	24.22	24.27	24.25	24.7	0.0	
100	PI/2 BPSK	1	271	24.21	24.20	24.04			
100	PI/2 BPSK	135	0	23.80	23.70	23.57	24.7	0.0	
100	PI/2 BPSK	135	69	24.03	24.17	24.22	24.7	0.0	
100	PI/2 BPSK	135	138	23.58	23.46	23.56	24.7	0.0	
100	PI/2 BPSK	270	0	23.59	23.62	23.73			
100	QPSK	1	1	24.23	24.37	24.04			
100	QPSK	1	137	24.20	24.19	24.08	24.7	0.0	
100	QPSK	1	271	24.12	24.22	24.24			
100	QPSK	135	0	23.87	24.14	24.22	24.7	0.0	
100	QPSK	135	69	23.99	24.27	24.16	24.7	0.0	
100	QPSK	135	138	23.81	23.92	23.79	24.7	0.0	
100	QPSK	270	0	23.83	24.14	23.84			
100	16QAM	1	1	24.01	24.16	24.14	24.7	0.0	
100	64QAM	1	1	22.40	22.64	22.33	23.2	1.5	
100	256QAM	1	1	20.82	21.13	20.60	21.7	3.0	
Channel				648688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	24.10	24.24	23.37	24.7	0.0	
Channel				648334	656000	662688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	24.04	24.24	24.04	24.7	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	24.19	24.33	24.02	24.7	0.0	
Channel				648688	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	24.19	24.25	23.91	24.7	0.0	
Channel				648334	656000	663688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	24.07	24.18	24.05	24.7	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	24.02	24.23	23.95	24.7	0.0	
Channel				647688	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	24.12	24.22	23.91	24.7	0.0	
Channel				647334	656000	664688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	24.07	24.22	23.83	24.7	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.02	3840	3975.01			
15	QPSK	1	1	23.95	24.10	23.72	24.7	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.95	24.03	23.62	24.7	0.0	

Par27Q n77 Ant11 DS4 DFT-30									
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				633000	633334	633668			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI/2 BPSK	1	1	24.05					
100	PI/2 BPSK	1	137	24.16			24.7	0.0	
100	PI/2 BPSK	1	271	24.10					
100	PI/2 BPSK	135	0	23.55					
100	PI/2 BPSK	135	69	23.96			24.7	0.0	
100	PI/2 BPSK	135	138	23.28					
100	PI/2 BPSK	270	0	23.51			24.7	0.0	
100	QPSK	1	1	24.23					
100	QPSK	1	137	24.18			24.7	0.0	
100	QPSK	1	271	24.06					
100	QPSK	135	0	24.12					
100	QPSK	135	69	24.14			24.7	0.0	
100	QPSK	135	138	23.93					
100	QPSK	270	0	23.98			24.7	0.0	
100	16QAM	1	1	24.09			24.7	0.0	
100	64QAM	1	1	22.50			23.2	1.5	
100	256QAM	1	1	20.87			21.7	3.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	23.91	24.14	23.90	24.7	0.0	
Channel				632688	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	24.12	24.22	23.79	24.7	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	24.04	24.06	23.97	24.7	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	23.94	24.13	23.67	24.7	0.0	
Channel				631688	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	23.95	24.15	23.92	24.7	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	23.95	24.10	23.72	24.7	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	23.95	24.03	23.92	24.7	0.0	
Channel				630688	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	24.05	24.07	23.71	24.7	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	24.07	24.18	24.05	24.7	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	24.19	24.33	24.02	24.7	0.0	



Part270 n78 Ant11 DS14 PC2&PC3 DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	24.44			25.0	0.0
100	PI/2 BPSK	1	137	24.49				
100	PI/2 BPSK	1	271	24.60			25.0	0.0
100	PI/2 BPSK	135	0	24.29				
100	PI/2 BPSK	135	69	24.43			25.0	0.0
100	PI/2 BPSK	135	138	24.53			25.0	0.0
100	PI/2 BPSK	270	0	24.53			25.0	0.0
100	QPSK	1	1	24.62			25.0	0.0
100	QPSK	1	137	24.59				
100	QPSK	1	271	24.45			25.0	0.0
100	QPSK	135	0	23.79				
100	QPSK	135	69	24.29			25.0	0.0
100	QPSK	135	138	23.87			25.0	0.0
100	QPSK	270	0	23.97			25.0	0.0
100	16QAM	1	1	24.00			24.7	0.3
100	64QAM	1	1	22.62			23.2	1.8
100	256QAM	1	1	20.41			21.2	3.8
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	24.42	24.50	24.43	25.0	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	24.21	24.44	24.31	25.0	0.0
Channel				649000	650000	651090	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	24.42	24.36	24.20	25.0	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	24.29	24.42	24.30	25.0	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	24.38	24.49	24.31	25.0	0.0
Channel				648000	650000	652090	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	24.23	24.29	24.25	25.0	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	24.26	24.41	24.30	25.0	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	24.29	24.47	24.37	25.0	0.0
Channel				647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	1	24.22	24.50	24.24	25.0	0.0
Channel				647000	650000	653090	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	1	24.42	24.50	24.32	25.0	0.0

Part27Q n78 Ant11 DS14 PC2&PC3 DFT-30								
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				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	24.45				
100	PI/2 BPSK	1	137	24.50			25.0	0.0
100	PI/2 BPSK	1	271	24.49				
100	PI/2 BPSK	135	0	24.30			25.0	0.0
100	PI/2 BPSK	135	69	24.36			25.0	0.0
100	PI/2 BPSK	135	138	24.37			25.0	0.0
100	PI/2 BPSK	270	0	24.08				
100	QPSK	1	1	24.70			25.0	0.0
100	QPSK	1	137	24.33				
100	QPSK	1	271	24.58			25.0	0.0
100	QPSK	135	0	23.84				
100	QPSK	135	69	24.32			25.0	0.0
100	QPSK	135	138	23.68			25.0	0.0
100	QPSK	270	0	23.77				
100	16QAM	1	1	24.16			24.7	0.3
100	64QAM	1	1	22.48			23.2	1.8
100	256QAM	1	1	20.17			21.2	3.8
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	24.35	24.30	24.33	25.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	24.28	24.36	24.36	25.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	24.29	24.37	24.28	25.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	24.22	24.36	24.32	25.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	24.22	24.50	24.24	25.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	24.29	24.50	24.41	25.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	24.42	24.50	24.32	25.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	24.40	24.36	24.38	25.0	0.0
Channel				630500	633334	636168	Tune-up limit	MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	1	24.23	24.29	24.25	25.0	0.0
Channel				630334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	24.42	24.36	24.29	25.0	0.0



Par27Q n77 Ant12 DS14 DFT-30

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1	23.37	23.33	23.54		
100	Pi/2 BPSK	1	137	23.33	23.44	23.30	24.7	0.0
100	Pi/2 BPSK	1	271	23.45	23.40	23.43		
100	Pi/2 BPSK	135	0	23.29	23.33	23.46	24.7	0.0
100	Pi/2 BPSK	135	69	23.26	23.21	23.44	24.7	0.0
100	Pi/2 BPSK	135	138	23.21	23.21	23.51		
100	Pi/2 BPSK	270	0	23.20	23.33	23.34	24.7	0.0
100	QPSK	1	1	23.23	23.07	23.34		
100	QPSK	1	137	23.46	23.45	23.40	24.7	0.0
100	QPSK	1	271	23.49	23.37	23.45		
100	QPSK	135	0	22.33	22.22	22.52	24.7	0.0
100	QPSK	135	69	23.26	23.36	23.24	24.7	0.0
100	QPSK	135	138	23.33	23.24	23.30		
100	QPSK	270	0	23.26	23.35	23.34	24.7	0.0
100	16QAM	1	1	23.18	23.23	23.43	24.7	0.0
100	16QAM	1	1	21.71	22.28	21.88	23.2	1.5
100	16QAM	1	1	19.72	20.21	19.91	21.2	3.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.11	23.05	23.25	24.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.24	23.22	23.25	24.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.24	23.52	23.13	24.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.05	23.01	23.16	24.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.10	23.11	23.15	24.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.17	23.47	23.25	24.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.23	23.61	23.33	24.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.24	23.54	23.27	24.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.22	23.35	23.33	24.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.24	23.43	23.44	24.7	0.0

Par27Q n77 Ant12 DS14 DFT-30

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 636668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1	23.29				
100	Pi/2 BPSK	1	137	23.37			24.7	0.0
100	Pi/2 BPSK	1	271	23.37				
100	Pi/2 BPSK	135	0	23.23			24.7	0.0
100	Pi/2 BPSK	135	69	23.18			24.7	0.0
100	Pi/2 BPSK	135	138	23.09				
100	Pi/2 BPSK	270	0	23.13			24.7	0.0
100	QPSK	1	1	23.04				
100	QPSK	1	137	23.31			24.7	0.0
100	QPSK	1	271	23.36				
100	QPSK	135	0	22.23			24.7	0.0
100	QPSK	135	69	23.36			24.7	0.0
100	QPSK	135	138	23.30				
100	QPSK	270	0	23.37			24.7	0.0
100	16QAM	1	1	23.17			24.7	0.0
100	16QAM	1	1	22.26			23.2	1.5
100	16QAM	1	1	20.04			21.2	3.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.42	23.58	23.47	24.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.24	23.54	23.48	24.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.21	23.46	23.39	24.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.22	23.35	23.33	24.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.44	23.43	23.44	24.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.23	23.55	23.39	24.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.22	23.54	23.43	24.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.42	23.41	23.42	24.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.06	23.60	23.25	24.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.24	23.52	23.13	24.7	0.0

Par27Q n78 Ant12 DS14 PC4 DFT-30

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 660000	Power Middle Ch. / Freq. 660000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1	23.29				
100	Pi/2 BPSK	1	137	23.37			24.0	0.0
100	Pi/2 BPSK	1	271	23.30				
100	Pi/2 BPSK	135	0	22.53			23.5	0.5
100	Pi/2 BPSK	135	69	22.51			24.0	0.0
100	Pi/2 BPSK	135	138	22.28				
100	Pi/2 BPSK	270	0	22.51			23.5	0.5
100	QPSK	1	1	23.10				
100	QPSK	1	137	22.98			24.0	0.0
100	QPSK	1	271	23.08				
100	QPSK	135	0	21.94			23.0	1.0
100	QPSK	135	69	23.06			24.0	0.0
100	QPSK	135	138	21.94				
100	QPSK	270	0	22.07			23.0	1.0
100	16QAM	1	1	22.00			23.0	1.0
100	16QAM	1	1	20.99			21.5	2.5
100	16QAM	1	1	19.51			19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.00	23.01	22.96	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.03	23.00	23.05	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.96	23.03	22.97	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.85	22.95	23.03	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.85	22.95	23.03	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.04	23.00	23.01	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.95	22.94	22.97	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.97	22.97	23.05	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.96	23.03	22.97	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.96	22.95	23.03	24.0	0.0



Part27Q 78 Ant1 DS14 PC3 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.27	3060.01				
100	PI2 BPSK	1	137	23.01	3060.01		24.0	0.0	
100	PI2 BPSK	1	271	23.14	3060.01				
100	PI2 BPSK	135	0	22.70	3060.01		24.0	0.0	
100	PI2 BPSK	135	69	23.08	3060.01				
100	PI2 BPSK	135	138	22.73	3060.01				
100	PI2 BPSK	270	0	22.61	3060.01		23.5	0.5	
100	QPSK	1	1	23.28	3060.01				
100	QPSK	1	137	23.15	3060.01		24.0	0.0	
100	QPSK	1	271	23.28	3060.01				
100	QPSK	135	0	22.04	3060.01				
100	QPSK	135	69	23.16	3060.01		24.0	0.0	
100	QPSK	135	138	22.09	3060.01				
100	QPSK	270	0	22.25	3060.01		23.0	1.0	
100	16QAM	1	1	22.19	3060.01		23.0	1.0	
100	16QAM	1	1	20.86	3060.01		21.5	2.5	
100	256QAM	1	1	18.02	3060.01		19.5	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.23	3313	23.13	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.18	3313	23.17	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.21	3511	35.23	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.23	3511	35.18	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.19	3511	35.24	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.21	3511	35.20	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.17	3511	35.19	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.17	3511	35.16	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.21	3511	35.23	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.21	3511	35.14	24.0	0.0	

Part27Q n78 Ant12 DS14 PC4 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.62	3750	3750			
100	PI2 BPSK	1	137	24.56	3750	3750	26.5	0.0	
100	PI2 BPSK	1	271	24.63	3750	3750			
100	PI2 BPSK	135	0	24.21	3750	3750	26.5	0.0	
100	PI2 BPSK	135	69	24.00	3750	3750			
100	PI2 BPSK	135	138	24.51	3750	3750	26.5	0.0	
100	PI2 BPSK	270	0	24.67	3750	3750			
100	QPSK	1	1	24.68	3750	3750	26.5	0.0	
100	QPSK	1	137	24.58	3750	3750			
100	QPSK	1	271	24.59	3750	3750			
100	QPSK	135	0	24.12	3750	3750	26.0	0.5	
100	QPSK	135	69	24.65	3750	3750	26.5	0.0	
100	QPSK	135	138	24.18	3750	3750	26.0	0.5	
100	QPSK	270	0	24.08	3750	3750	26.0	0.5	
100	16QAM	1	1	24.11	3750	3750	26.0	0.5	
100	16QAM	1	1	22.56	3750	3750	24.5	2.0	
100	256QAM	1	1	20.85	3750	3750	22.5	4.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.65	4481	44.66	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.57	44.51	44.60	26.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.56	46.00	46.57	26.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.68	60.00	60.334	26.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.50	24.66	24.67	26.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.60	24.66	24.54	26.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.66	24.54	24.57	26.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.64	24.67	24.67	26.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.55	24.66	24.65	26.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.57	24.51	24.60	26.5	0.0	

Part27Q 78 Ant12 DS14 PC2 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.53	3500.01				
100	PI2 BPSK	1	137	24.62	3500.01		26.5	0.0	
100	PI2 BPSK	1	271	24.64	3500.01				
100	PI2 BPSK	135	0	24.80	3500.01		26.5	0.0	
100	PI2 BPSK	135	69	24.53	3500.01				
100	PI2 BPSK	135	138	24.62	3500.01		26.5	0.0	
100	PI2 BPSK	270	0	24.56	3500.01				
100	QPSK	1	1	24.81	3500.01		26.5	0.0	
100	QPSK	1	137	24.63	3500.01				
100	QPSK	1	271	24.58	3500.01				
100	QPSK	135	0	24.08	3500.01		26.0	0.5	
100	QPSK	135	69	24.68	3500.01		26.5	0.0	
100	QPSK	135	138	24.14	3500.01		26.0	0.5	
100	QPSK	270	0	24.15	3500.01		26.0	0.5	
100	16QAM	1	1	24.55	3500.01		26.0	0.5	
100	16QAM	1	1	22.59	3500.01		24.5	2.0	
100	256QAM	1	1	20.28	3500.01		22.5	4.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.58	24.60	24.55	26.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.51	24.56	24.50	26.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.60	24.52	24.68	26.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.61	24.72	24.58	26.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.61	24.72	24.58	26.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.60	24.67	24.51	26.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.68	24.53	24.52	26.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.49	24.55	24.66	26.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.60	24.52	24.68	26.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.60	24.53	24.63	26.5	0.0	



Par270 n77 Ant13 DSI4 DFT-30								
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	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.05	22.25	22.06		
100	PI/2 BPSK	1	137	22.26	22.26	22.04	22.7	0.0
100	PI/2 BPSK	1	271	22.09	22.18	22.19		
100	PI/2 BPSK	135	0	22.05	22.24	22.19	22.7	0.0
100	PI/2 BPSK	135	69	22.10	22.21	22.22	22.7	0.0
100	PI/2 BPSK	135	138	21.95	22.06	21.84	22.7	0.0
100	PI/2 BPSK	270	0	22.12	22.13	22.14		
100	QPSK	1	1	22.17	22.39	22.18		
100	QPSK	1	137	22.23	22.23	22.09	22.7	0.0
100	QPSK	1	271	22.14	22.18	22.05		
100	QPSK	135	0	22.16	22.12	22.16	22.7	0.0
100	QPSK	135	69	22.12	22.17	21.97	22.7	0.0
100	QPSK	135	138	22.02	22.12	21.92	22.7	0.0
100	QPSK	270	0	22.03	22.11	21.97		
100	16QAM	1	1	22.16	22.38	22.34	22.7	0.0
100	64QAM	1	1	22.31	22.34	22.20	22.7	0.0
100	256QAM	1	1	20.55	20.70	20.67	21.2	1.5
Channel				648668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	22.7	0.0
90	QPSK	1	1	22.01	22.24	22.00	22.7	0.0
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	22.7	0.0
80	QPSK	1	1	22.00	22.37	22.10	22.7	0.0
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	22.7	0.0
70	QPSK	1	1	22.17	22.31	22.01	22.7	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	22.7	0.0
60	QPSK	1	1	22.10	22.21	22.16	22.7	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	22.7	0.0
50	QPSK	1	1	21.98	22.38	22.20	22.7	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	22.7	0.0
40	QPSK	1	1	22.08	22.19	22.18	22.7	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	22.7	0.0
30	QPSK	1	1	22.11	22.30	21.97	22.7	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	22.7	0.0
20	QPSK	1	1	21.97	22.18	22.06	22.7	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.62	3840	3972.51	22.7	0.0
15	QPSK	1	1	21.96	22.38	22.20	22.7	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	22.7	0.0
10	QPSK	1	1	22.00	22.37	22.10	22.7	0.0

Part27Q n77 Ant13 DSI4 DFT-30								
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				633000	633334	633668		
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1	22.04	22.04	22.04		
100	PI/2 BPSK	1	137	22.03	22.03	22.03	22.7	0.0
100	PI/2 BPSK	1	271	22.01	22.01	22.01		
100	PI/2 BPSK	135	0	22.25	22.25	22.25	22.7	0.0
100	PI/2 BPSK	135	69	22.07	22.07	22.07	22.7	0.0
100	PI/2 BPSK	135	138	21.98	21.98	21.98	22.7	0.0
100	PI/2 BPSK	270	0	21.97	21.97	21.97		
100	QPSK	1	1	22.23	22.23	22.23		
100	QPSK	1	137	22.16	22.16	22.16	22.7	0.0
100	QPSK	1	271	22.09	22.09	22.09		
100	QPSK	135	0	22.02	22.02	22.02	22.7	0.0
100	QPSK	135	69	22.05	22.05	22.05	22.7	0.0
100	QPSK	135	138	21.97	21.97	21.97	22.7	0.0
100	QPSK	270	0	21.98	21.98	21.98		
100	16QAM	1	1	22.39	22.39	22.39	22.7	0.0
100	64QAM	1	1	22.15	22.15	22.15	22.7	0.0
100	256QAM	1	1	20.47	20.47	20.47	21.2	1.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02	22.7	0.0
90	QPSK	1	1	21.81	21.90	22.07	22.7	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	22.7	0.0
80	QPSK	1	1	21.90	22.09	22.00	22.7	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01	22.7	0.0
70	QPSK	1	1	21.81	21.95	22.19	22.7	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02	22.7	0.0
60	QPSK	1	1	21.85	22.05	22.07	22.7	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525	22.7	0.0
50	QPSK	1	1	21.93	22.08	22.00	22.7	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	22.7	0.0
40	QPSK	1	1	21.93	21.93	22.23	22.7	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02	22.7	0.0
30	QPSK	1	1	22.03	21.84	22.12	22.7	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	22.7	0.0
20	QPSK	1	1	21.82	21.89	22.09	22.7	0.0
Channel				630334	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52	22.7	0.0
15	QPSK	1	1	21.81	21.95	22.19	22.7	0.0
Channel				630000	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01	22.7	0.0
10	QPSK	1	1	21.93	21.93	22.23	22.7	0.0



Part270 n78 Ant13 DSI4 PC2&PC3 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	21.38			22.5	0.0	
100	PI/2 BPSK	1	137	21.22					
100	PI/2 BPSK	1	271	21.09					
100	PI/2 BPSK	135	0	21.04			22.5	0.0	
100	PI/2 BPSK	135	69	21.19			22.5	0.0	
100	PI/2 BPSK	135	138	21.04					
100	PI/2 BPSK	270	0	20.72			22.5	0.0	
100	QPSK	1	1	21.54					
100	QPSK	1	137	21.22			22.5	0.0	
100	QPSK	1	271	21.22					
100	QPSK	135	0	20.54			22.5	0.0	
100	QPSK	135	69	21.41			22.5	0.0	
100	QPSK	135	138	20.54					
100	QPSK	270	0	20.52			22.5	0.0	
100	16QAM	1	1	21.22			22.5	0.0	
100	64QAM	1	1	21.16			21.5	1.0	
100	256QAM	1	1	19.25			19.5	3.0	
Channel				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	21.43	21.42	21.43	22.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	21.36	21.28	21.34	22.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	21.24	21.44	21.20	22.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	21.37	21.38	21.40	22.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	21.47	21.25	21.44	22.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	21.30	21.17	21.27	22.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	21.35	21.42	21.48	22.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	21.43	21.29	21.34	22.5	0.0	
Channel				647000	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	21.37	21.38	21.40	22.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	21.36	21.28	21.34	22.5	0.0	

Part27Q n78 Ant13 DSI4 PC2&PC3 DFT-30									
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				633334					
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1	21.62			22.5	0.0	
100	PI/2 BPSK	1	137	21.20					
100	PI/2 BPSK	1	271	21.31					
100	PI/2 BPSK	135	0	21.19			22.5	0.0	
100	PI/2 BPSK	135	69	21.31			22.5	0.0	
100	PI/2 BPSK	135	138	20.96					
100	PI/2 BPSK	270	0	20.71			22.5	0.0	
100	QPSK	1	1	21.69					
100	QPSK	1	137	21.18			22.5	0.0	
100	QPSK	1	271	21.46					
100	QPSK	135	0	20.68			22.5	0.0	
100	QPSK	135	69	21.51			22.5	0.0	
100	QPSK	135	138	20.67					
100	QPSK	270	0	20.70			22.5	0.0	
100	16QAM	1	1	20.68			22.5	0.0	
100	64QAM	1	1	21.21			21.5	1.0	
100	256QAM	1	1	19.26			19.5	3.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	21.57	21.61	21.49	22.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510.01			
80	QPSK	1	1	21.45	21.42	21.35	22.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	21.53	21.39	21.38	22.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	21.37	21.49	21.25	22.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	21.42	21.63	21.47	22.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	21.57	21.47	21.34	22.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	21.42	21.50	21.34	22.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	21.34	21.50	21.46	22.5	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	21.53	21.39	21.36	22.5	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	21.57	21.61	21.49	22.5	0.0	



n5 Ant0 DSIS DFT-15

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				169300	167300	167900		
Frequency (MHz)				834	836.5	838		
20	PI2 BPSK	1	1	24.99	25.01	24.80		
20	PI2 BPSK	1	50	25.06	25.07	24.90		0.0
20	PI2 BPSK	1	104	24.74	24.86	24.85	25.0	0.5
20	PI2 BPSK	50	0	24.55	24.53	24.43	25.0	0.5
20	PI2 BPSK	50	28	24.92	25.06	24.85	25.0	0.0
20	PI2 BPSK	50	56	24.46	24.49	24.36	25.0	0.5
20	PI2 BPSK	100	0	24.40	24.47	24.29	25.0	0.0
20	QPSK	1	1	24.99	25.00	25.15		
20	QPSK	1	53	25.09	25.15	25.08	25.5	0.0
20	QPSK	1	104	24.97	25.13	25.06		
20	QPSK	50	0	23.94	24.09	23.97	24.5	1.0
20	QPSK	50	28	25.13	25.17	25.06	25.5	0.0
20	QPSK	50	56	23.83	24.05	23.94	24.5	1.0
20	QPSK	100	0	23.89	24.06	23.88		
20	16QAM	1	1	23.90	23.97	23.80	24.5	1.0
20	16QAM	1	1	22.39	22.43	22.37	23.0	2.5
20	256QAM	1	1	20.26	20.40	20.20	21.0	4.5
Channel				169300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	25.17	25.14	25.11	25.5	0.0
Channel				165300	163300	163900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	25.19	25.10	25.12	25.5	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	25.08	25.16	25.02	25.5	0.0

n7 Ant0 DSIS DFT-15

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	2635	2650		
40	PI2 BPSK	1	1	22.82	22.80	22.59		
40	PI2 BPSK	1	108	22.55	22.83	22.64	23.5	0.0
40	PI2 BPSK	1	214	22.58	22.59	22.59		
40	PI2 BPSK	108	0	22.49	22.84	22.52	23.5	0.0
40	PI2 BPSK	108	54	22.58	22.59	22.51	23.5	0.0
40	PI2 BPSK	108	108	22.83	22.81	22.82	23.5	0.0
40	PI2 BPSK	216	0	22.52	22.83	22.56		
40	QPSK	1	1	22.51	22.87	22.80		
40	QPSK	1	108	22.55	22.85	22.81	23.5	0.0
40	QPSK	1	214	22.57	22.83	22.53		
40	QPSK	108	0	22.48	22.58	22.59	22.5	1.0
40	QPSK	108	54	22.47	22.60	22.54	23.5	0.0
40	QPSK	108	108	22.46	22.55	22.55	22.5	1.0
40	QPSK	216	0	22.51	22.54	22.49		
40	16QAM	1	1	22.50	22.86	22.80	23.5	0.0
40	16QAM	1	1	21.27	21.24	21.29	22.0	1.5
40	256QAM	1	1	19.13	19.10	19.17	20.0	3.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2635	2655		
30	QPSK	1	1	22.41	22.54	22.38	23.5	0.0
Channel				502000	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2635	2657.5		
25	QPSK	1	1	22.62	22.56	22.55	23.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2635	2650		
20	QPSK	1	1	22.41	22.39	22.44	23.5	0.0
Channel				501800	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2635	2662.5		
15	QPSK	1	1	22.42	22.55	22.55	23.5	0.0
Channel				501800	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2635	2665		
10	QPSK	1	1	22.51	22.55	22.53	23.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2635	2672.5		
5	QPSK	1	1	22.46	22.50	22.50	23.5	0.0

n66 Ant0 DSIS DFT-15

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		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.70	22.75	22.77		
40	PI2 BPSK	1	108	22.90	22.93	22.89	24.5	0.0
40	PI2 BPSK	1	214	22.81	22.81	22.83		
40	PI2 BPSK	108	0	22.34	22.28	22.24	24.0	0.5
40	PI2 BPSK	108	54	22.84	22.87	22.83	24.5	0.0
40	PI2 BPSK	108	108	22.46	22.40	22.40	24.0	0.5
40	PI2 BPSK	216	0	22.43	22.41	22.46		
40	QPSK	1	1	22.91	22.85	22.85		
40	QPSK	1	108	22.84	22.92	22.83	24.5	0.0
40	QPSK	1	214	22.89	22.90	22.86		
40	QPSK	108	0	21.90	21.85	21.87	23.5	1.0
40	QPSK	108	54	22.86	22.91	22.86	24.5	0.0
40	QPSK	108	108	21.92	21.92	21.97	23.5	1.0
40	QPSK	216	0	21.91	21.98	21.93		
40	16QAM	1	1	22.08	22.07	22.03	23.5	1.0
40	16QAM	1	1	20.56	20.55	20.52	22.0	2.5
40	256QAM	1	1	18.17	18.10	18.07	20.0	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.72	22.71	22.74	24.5	0.0
Channel				344000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.75	22.81	22.84	24.5	0.0
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.76	22.70	22.75	24.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.67	22.78	22.83	24.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.76	22.75	22.86	24.5	0.0



n38 Ant0 DSIS DFT-30								
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	PI/2 BPSK	1	1	20.95	20.88	20.87	22.5	0.0
40	PI/2 BPSK	1	53	20.79	20.86	20.95		
40	PI/2 BPSK	1	104	20.92	20.95	20.90		
40	PI/2 BPSK	50	0	20.14	20.16	20.12	22.0	0.5
40	PI/2 BPSK	50	28	20.96	20.96	20.96	22.5	0.0
40	PI/2 BPSK	50	56	20.56	20.58	20.55	22.0	0.5
40	PI/2 BPSK	100	0	20.32	20.29	20.32		
40	QPSK	1	1	20.96	20.99	20.86	22.5	0.0
40	QPSK	1	53	20.98	20.95	20.92		
40	QPSK	1	104	20.88	20.86	20.89		
40	QPSK	50	0	19.58	19.53	19.51	21.5	1.0
40	QPSK	50	28	20.70	20.73	20.69	22.5	0.0
40	QPSK	50	56	20.07	20.07	20.05	21.5	1.0
40	QPSK	100	0	19.66	19.68	19.76		
40	16QAM	1	1	19.88	19.92	19.87	21.5	1.0
40	64QAM	1	1	18.48	18.51	18.57	20.0	2.5
40	256QAM	1	1	16.63	16.60	16.59	18.0	4.5
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	20.88	20.88	20.70	22.5	0.0
Channel				516000	518000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2590	2595	2610		
20	QPSK	1	1	20.99	20.96	20.92	22.5	0.0
Channel				518502	518000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2677.51	2595	2612.49		
15	PI/2 BPSK	1	1	20.89	20.84	20.80	22.5	0.0
Channel				516004	518000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2675.02	2595	2614.98		
10	PI/2 BPSK	1	1	20.86	20.89	20.87	22.5	0.0

n41 Ant0 DSIS DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.86	20.88	20.90	22.5	0.0
100	PI/2 BPSK	1	137	20.91	20.89	20.96		
100	PI/2 BPSK	1	271	20.58	20.54	20.56		
100	PI/2 BPSK	135	0	20.30	20.29	20.29	22.0	0.5
100	PI/2 BPSK	135	69	20.91	20.92	20.96	22.5	0.0
100	PI/2 BPSK	135	138	20.61	20.56	20.56	22.0	0.5
100	PI/2 BPSK	270	0	20.31	20.29	20.33		
100	QPSK	1	1	20.97	21.00	20.98	22.5	0.0
100	QPSK	1	137	20.92	20.93	20.99		
100	QPSK	1	271	20.65	20.58	20.63		
100	QPSK	135	0	19.81	19.74	19.81	21.5	1.0
100	QPSK	135	69	20.75	20.81	20.76	22.5	0.0
100	QPSK	135	138	20.14	20.08	20.04	21.5	1.0
100	QPSK	270	0	19.76	19.77	19.74		
100	16QAM	1	1	19.72	19.72	19.75	21.5	1.0
100	64QAM	1	1	18.31	18.26	18.24	20.0	2.5
100	256QAM	1	1	16.92	16.83	16.83	18.0	4.5
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.93	20.89	20.93	22.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.91	20.89	20.90	22.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.89	20.84	20.88	22.5	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.92	20.85	20.87	22.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	20.82	20.93	20.95	22.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.88	20.89	20.87	22.5	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.85	20.95	20.89	22.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.88	20.91	20.85	22.5	0.0



n5 Ant1 DSIS DFT-15								
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)				834	836.5	839		
20	PI/2 BPSK	1	1	24.33	24.44	24.38	25.2	0.0
20	PI/2 BPSK	1	53	24.37	24.38	24.37		
20	PI/2 BPSK	1	104	24.37	24.30	24.31		
20	PI/2 BPSK	50	0	24.01	23.92	23.81	25.2	0.0
20	PI/2 BPSK	50	28	24.34	24.27	24.37	25.2	0.0
20	PI/2 BPSK	50	56	23.79	23.68	23.79	25.2	0.0
20	PI/2 BPSK	100	0	23.73	23.87	24.01		
20	QPSK	1	1	24.39	24.47	24.40	25.2	0.0
20	QPSK	1	53	24.35	24.30	24.39		
20	QPSK	1	104	24.27	24.14	24.07		
20	QPSK	50	0	23.49	23.54	23.54	24.7	0.5
20	QPSK	50	28	24.28	24.43	24.36	25.2	0.0
20	QPSK	50	56	23.19	23.47	23.40	24.7	0.5
20	QPSK	100	0	23.36	23.57	23.50		
20	16QAM	1	1	23.53	23.56	23.52	24.7	0.5
20	64QAM	1	1	21.84	21.99	22.06	23.2	2.0
20	256QAM	1	1	19.77	19.79	19.73	21.2	4.0
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	24.34	24.24	24.38	25.2	0.0
Channel				165900	167300	168300	Tune-up limit	MPR
Frequency (MHz)				839	836.5	844	(dBm)	(dB)
10	QPSK	1	1	24.42	24.45	24.39	25.2	0.0
Channel				165300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	24.43	24.43	24.36	25.2	0.0



n7 Ant3 DSI5 DFT-15								
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	PI/2 BPSK	1	1	21.36	21.26	21.23		
40	PI/2 BPSK	1	108	21.40	21.30	21.35	22.0	0.0
40	PI/2 BPSK	1	214	21.15	21.26	21.34		
40	PI/2 BPSK	108	0	21.28	21.32	21.34	22.0	0.0
40	PI/2 BPSK	108	54	21.16	21.18	21.17	22.0	0.0
40	PI/2 BPSK	108	108	21.09	21.19	21.22		
40	PI/2 BPSK	216	0	21.37	21.26	21.35	22.0	0.0
40	QPSK	1	1	21.46	21.47	21.31		
40	QPSK	1	108	21.41	21.29	21.19	22.0	0.0
40	QPSK	1	214	21.31	21.27	21.26		
40	QPSK	108	0	21.27	21.36	21.31	22.0	0.0
40	QPSK	108	54	21.26	21.15	21.11	22.0	0.0
40	QPSK	108	108	21.19	21.22	21.32		
40	QPSK	216	0	21.12	21.26	21.24	22.0	0.0
40	16QAM	1	1	21.34	21.35	21.39	22.0	0.0
40	64QAM	1	1	20.95	20.96	20.90	21.5	0.5
40	256QAM	1	1	18.72	18.74	18.75	19.5	2.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	22.0	0.0
30	QPSK	1	1	21.23	21.31	21.24		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	22.0	0.0
25	QPSK	1	1	21.24	21.18	21.22		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	22.0	0.0
20	QPSK	1	1	21.33	21.37	21.11		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	22.0	0.0
15	QPSK	1	1	21.15	21.05	21.21		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	22.0	0.0
10	QPSK	1	1	21.22	21.19	21.24		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	22.0	0.0
5	QPSK	1	1	21.37	21.11	21.18		

n66 Ant3 DSI5 DFT-15								
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		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	21.73	21.81	21.84		
40	PI/2 BPSK	1	108	21.79	21.73	21.61	23.0	0.0
40	PI/2 BPSK	1	214	21.67	21.75	21.68		
40	PI/2 BPSK	108	0	21.68	21.67	21.61	23.0	0.0
40	PI/2 BPSK	108	54	21.77	21.72	21.78	23.0	0.0
40	PI/2 BPSK	108	108	21.63	21.72	21.70		
40	PI/2 BPSK	216	0	21.83	21.81	21.72	23.0	0.0
40	QPSK	1	1	21.76	21.85	21.83		
40	QPSK	1	108	21.70	21.73	21.72	23.0	0.0
40	QPSK	1	214	21.62	21.72	21.64		
40	QPSK	108	0	21.80	21.79	21.75	23.0	0.0
40	QPSK	108	54	21.73	21.82	21.63	23.0	0.0
40	QPSK	108	108	21.61	21.77	21.80		
40	QPSK	216	0	21.74	21.74	21.68	23.0	0.0
40	16QAM	1	1	21.82	21.84	21.70	23.0	0.0
40	64QAM	1	1	20.40	20.46	20.42	21.5	1.5
40	256QAM	1	1	18.57	18.25	18.24	19.5	3.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	23.0	0.0
30	QPSK	1	1	21.57	21.61	21.71		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	23.0	0.0
20	QPSK	1	1	21.58	21.73	21.63		
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	23.0	0.0
15	QPSK	1	1	21.59	21.78	21.72		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	23.0	0.0
10	QPSK	1	1	21.74	21.81	21.85		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	23.0	0.0
5	QPSK	1	1	21.70	21.86	21.79		



n38 Ant3 DSIS DFT-30								
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	PI/2 BPSK	1	1	20.93	20.84	20.88		
40	PI/2 BPSK	1	53	20.95	20.86	20.94	22.0	0.0
40	PI/2 BPSK	1	104	20.76	20.84	20.90		
40	PI/2 BPSK	50	0	20.97	20.88	20.80	22.0	0.0
40	PI/2 BPSK	50	28	20.80	20.80	20.71	22.0	0.0
40	PI/2 BPSK	50	56	20.66	20.77	20.69		
40	PI/2 BPSK	100	0	20.86	20.82	20.74	22.0	0.0
40	QPSK	1	1	20.86	20.98	20.96		
40	QPSK	1	53	20.94	20.95	20.88	22.0	0.0
40	QPSK	1	104	20.88	20.92	20.83		
40	QPSK	50	0	20.79	20.86	20.80	22.0	0.0
40	QPSK	50	28	20.74	20.91	20.73	22.0	0.0
40	QPSK	50	56	20.81	20.74	20.75		
40	QPSK	100	0	20.81	20.90	20.88	22.0	0.0
40	16QAM	1	1	20.79	20.70	20.73	22.0	0.0
40	64QAM	1	1	20.50	20.57	20.48	21.5	0.5
40	256QAM	1	1	18.60	18.63	18.02	19.5	2.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	20.85	20.66	20.68	22.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	20.77	20.70	20.68	22.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	20.86	20.66	20.68	22.0	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	20.77	20.70	20.68	22.0	0.0

n41 Ant3 DSIS DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	21.05	20.78	20.90		
100	PI/2 BPSK	1	137	20.85	20.87	20.74	22.0	0.0
100	PI/2 BPSK	1	271	20.97	20.74	20.90		
100	PI/2 BPSK	135	0	20.61	20.70	20.81	22.0	0.0
100	PI/2 BPSK	135	69	20.92	20.74	20.94	22.0	0.0
100	PI/2 BPSK	135	138	20.77	20.93	20.92		
100	PI/2 BPSK	270	0	20.81	20.78	20.89	22.0	0.0
100	QPSK	1	1	20.88	21.06	21.05		
100	QPSK	1	137	20.78	20.92	20.88	22.0	0.0
100	QPSK	1	271	20.50	20.54	20.56		
100	QPSK	135	0	20.78	20.91	20.73	22.0	0.0
100	QPSK	135	69	20.79	20.93	20.90	22.0	0.0
100	QPSK	135	138	20.77	20.90	20.80		
100	QPSK	270	0	20.60	20.88	20.81	22.0	0.0
100	16QAM	1	1	20.76	20.96	21.03	22.0	0.0
100	64QAM	1	1	20.08	20.13	20.16	21.5	0.5
100	256QAM	1	1	18.50	18.57	18.33	19.5	2.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.88	20.77	20.74	22.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.98	20.68	20.68	22.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.90	20.70	20.83	22.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.78	20.83	20.67	22.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	20.77	20.70	20.68	22.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.82	20.86	20.77	22.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.01	20.80	20.68	22.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.77	20.71	20.66	22.0	0.0



n7 Ant4 DSIS DFT-15								
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	PI/2 BPSK	1	1	17.32	17.20	17.19	17.5	0.0
40	PI/2 BPSK	1	108	17.28	17.18	17.19		
40	PI/2 BPSK	1	214	17.13	17.07	17.16		
40	PI/2 BPSK	108	0	17.26	17.15	17.22		
40	PI/2 BPSK	108	54	17.19	17.13	17.20		
40	PI/2 BPSK	108	108	17.06	17.15	17.11		
40	PI/2 BPSK	216	0	17.15	17.18	17.21		
40	QPSK	1	1	17.21	17.35	17.16		
40	QPSK	1	108	17.27	17.21	17.20		
40	QPSK	1	214	17.32	17.24	17.16		
40	QPSK	108	0	17.07	17.23	17.15	16.5	1.0
40	QPSK	108	54	17.06	17.26	16.95	17.5	0.0
40	QPSK	108	108	17.13	17.15	17.17	16.5	1.0
40	QPSK	216	0	17.12	17.20	17.19		
40	16QAM	1	1	17.28	17.09	17.30	17.5	0.0
40	64QAM	1	1	17.25	17.29	17.33	17.5	0.0
40	256QAM	1	1	17.27	17.23	17.31	17.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	17.5	0.0
30	QPSK	1	1	17.24	17.23	17.07	17.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	17.5	0.0
25	QPSK	1	1	17.23	17.23	17.09	17.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	17.5	0.0
20	QPSK	1	1	17.25	17.23	17.10	17.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	17.5	0.0
15	QPSK	1	1	17.23	17.30	17.25	17.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	17.5	0.0
10	QPSK	1	1	17.20	17.08	17.15	17.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	17.5	0.0
5	QPSK	1	1	17.25	17.34	17.13	17.5	0.0

n66 Ant4 DSIS DFT-15								
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		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	17.58	17.59	17.54	18.5	0.0
40	PI/2 BPSK	1	108	17.59	17.62	17.51		
40	PI/2 BPSK	1	214	17.58	17.57	17.56		
40	PI/2 BPSK	108	0	17.46	17.55	17.57		
40	PI/2 BPSK	108	54	17.52	17.60	17.51		
40	PI/2 BPSK	108	108	17.48	17.55	17.54		
40	PI/2 BPSK	216	0	17.50	17.62	17.60		
40	QPSK	1	1	17.57	17.64	17.58		
40	QPSK	1	108	17.62	17.59	17.63		
40	QPSK	1	214	17.55	17.57	17.48		
40	QPSK	108	0	17.50	17.56	17.47	18.5	0.0
40	QPSK	108	54	17.54	17.60	17.52	18.5	0.0
40	QPSK	108	108	17.56	17.53	17.57	18.5	0.0
40	QPSK	216	0	17.57	17.61	17.54		
40	16QAM	1	1	17.58	17.62	17.58	18.5	0.0
40	64QAM	1	1	17.60	17.63	17.51	18.5	0.0
40	256QAM	1	1	17.50	17.53	17.58	18.5	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	18.5	0.0
30	QPSK	1	1	17.49	17.58	17.50	18.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	18.5	0.0
20	QPSK	1	1	17.40	17.61	17.50	18.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	18.5	0.0
15	QPSK	1	1	17.45	17.50	17.40	18.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	18.5	0.0
10	QPSK	1	1	17.41	17.41	17.56	18.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	18.5	0.0
5	QPSK	1	1	17.49	17.45	17.33	18.5	0.0



n38 Ant4 DSIS DFT-30								
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	PI/2 BPSK	1	1	19.47	19.51	19.45		
40	PI/2 BPSK	1	53	19.35	19.35	19.31	19.5	0.0
40	PI/2 BPSK	1	104	19.36	19.45	19.50		
40	PI/2 BPSK	50	0	19.36	19.42	19.41	19.5	0.0
40	PI/2 BPSK	50	28	19.30	19.33	19.44	19.5	0.0
40	PI/2 BPSK	50	56	19.37	19.37	19.38		
40	PI/2 BPSK	100	0	19.48	19.45	19.43	19.5	0.0
40	QPSK	1	1	19.41	19.52	19.48		
40	QPSK	1	53	19.43	19.34	19.27	19.5	0.0
40	QPSK	1	104	19.50	19.45	19.49		
40	QPSK	50	0	19.22	19.31	19.27	19.5	0.0
40	QPSK	50	28	19.35	19.40	19.30	19.5	0.0
40	QPSK	50	56	19.33	19.39	19.38		
40	QPSK	100	0	19.26	19.37	19.31	19.5	0.0
40	16QAM	1	1	19.33	19.41	19.33	19.5	0.0
40	64QAM	1	1	19.46	19.51	19.43	19.5	0.0
40	256QAM	1	1	19.46	19.40	19.36	19.5	0.0
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99	19.5	0.0
30	QPSK	1	1	19.33	19.47	19.25		
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	19.31	19.50	19.26	19.5	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	PI/2 BPSK	1	1	19.19	19.86	19.11	19.5	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	PI/2 BPSK	1	1	19.17	19.94	19.96	19.5	0.0

n41 Ant4 DSIS DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.06	19.98	19.99		
100	PI/2 BPSK	1	137	20.03	20.01	20.03	20.5	0.0
100	PI/2 BPSK	1	271	20.16	20.08	20.19		
100	PI/2 BPSK	135	0	20.13	20.06	19.98	20.5	0.0
100	PI/2 BPSK	135	69	20.17	20.18	20.13	20.5	0.0
100	PI/2 BPSK	135	138	19.90	19.91	19.91		
100	PI/2 BPSK	270	0	19.94	20.05	20.06	20.5	0.0
100	QPSK	1	1	20.19	20.23	20.11		
100	QPSK	1	137	19.95	20.00	19.93	20.5	0.0
100	QPSK	1	271	20.20	20.13	20.17		
100	QPSK	135	0	19.99	19.97	19.96	20.5	0.0
100	QPSK	135	69	19.99	20.06	19.98	20.5	0.0
100	QPSK	135	138	19.86	19.96	19.99		
100	QPSK	270	0	19.97	20.07	20.04	20.5	0.0
100	16QAM	1	1	20.15	20.17	20.20	20.5	0.0
100	64QAM	1	1	20.19	20.15	20.07	20.5	0.0
100	256QAM	1	1	19.46	19.47	19.35	20.5	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.00	19.96	19.92	20.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.02	19.81	19.82	20.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.05	19.84	19.98	20.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.84	19.95	19.87	20.5	0.0
Channel				504204	518598	532996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	20.04	19.81	19.98	20.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.07	19.83	19.89	20.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.02	19.79	19.81	20.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.05	19.79	19.78	20.5	0.0



n7 Ant5 DSIS DFT-15								
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	PI/2 BPSK	1	1	21.64	21.65	21.58		
40	PI/2 BPSK	1	108	21.56	21.60	21.63	23.0	0.0
40	PI/2 BPSK	1	214	21.60	21.58	21.51		
40	PI/2 BPSK	108	0	21.10	21.05	21.01	22.5	0.5
40	PI/2 BPSK	108	54	21.54	21.53	21.58	23.0	0.0
40	PI/2 BPSK	108	108	21.14	21.07	21.06		
40	PI/2 BPSK	216	0	20.95	21.05	21.02	22.5	0.5
40	QPSK	1	1	21.64	21.68	21.55		
40	QPSK	1	108	21.67	21.58	21.60	23.0	0.0
40	QPSK	1	214	21.43	21.52	21.62		
40	QPSK	108	0	20.62	20.55	20.61	22.0	1.0
40	QPSK	108	54	21.48	21.49	21.40	23.0	0.0
40	QPSK	108	108	20.50	20.57	20.58	22.0	1.0
40	QPSK	216	0	20.46	20.65	20.58		
40	16QAM	1	1	20.78	20.89	20.91	22.0	1.0
40	64QAM	1	1	19.35	19.34	19.39	20.5	2.5
40	256QAM	1	1	18.06	18.11	18.13	18.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	23.0	0.0
30	QPSK	1	1	21.60	21.49	21.45		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	21.43	21.65	21.43	23.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	21.62	21.47	21.43	23.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	21.48	21.64	21.39	23.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	21.64	21.61	21.43	23.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.44	21.63	21.55	23.0	0.0

n66 Ant5 DSIS DFT-15								
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		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	21.61	21.73	21.75		
40	PI/2 BPSK	1	108	21.77	21.75	21.67	23.0	0.0
40	PI/2 BPSK	1	214	21.60	21.72	21.64		
40	PI/2 BPSK	108	0	21.32	21.25	21.33	22.5	0.5
40	PI/2 BPSK	108	54	21.71	21.67	21.59	23.0	0.0
40	PI/2 BPSK	108	108	21.13	21.22	21.28		
40	PI/2 BPSK	216	0	21.28	21.24	21.20	22.5	0.5
40	QPSK	1	1	21.60	21.78	21.72		
40	QPSK	1	108	21.73	21.74	21.66	23.0	0.0
40	QPSK	1	214	21.71	21.76	21.75		
40	QPSK	108	0	20.86	20.77	20.86	22.0	1.0
40	QPSK	108	54	21.57	21.68	21.59	23.0	0.0
40	QPSK	108	108	20.76	20.74	20.64	22.0	1.0
40	QPSK	216	0	20.72	20.79	20.67		
40	16QAM	1	1	20.67	20.90	20.95	22.0	1.0
40	64QAM	1	1	19.45	19.35	19.29	20.5	2.5
40	256QAM	1	1	18.25	18.13	18.16	18.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	23.0	0.0
30	QPSK	1	1	21.54	21.55	21.71		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.57	21.62	21.68	23.0	0.0
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.58	21.61	21.66	23.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.48	21.80	21.76	23.0	0.0
Channel				342000	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.59	21.71	21.76	23.0	0.0



n38 Ant5 DSIS DFT-30								
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	PI/2 BPSK	1	1	24.49	24.47	24.53		
40	PI/2 BPSK	1	53	24.45	24.43	24.36	25.7	0.0
40	PI/2 BPSK	1	104	24.51	24.53	24.42		
40	PI/2 BPSK	50	0	23.80	23.92	23.83	25.2	0.5
40	PI/2 BPSK	50	28	24.43	24.38	24.28	25.7	0.0
40	PI/2 BPSK	50	56	23.99	24.00	24.02		
40	PI/2 BPSK	100	0	24.00	23.88	23.80	25.2	0.5
40	QPSK	1	1	24.47	24.55	24.51		
40	QPSK	1	53	24.40	24.46	24.38	25.7	0.0
40	QPSK	1	104	24.48	24.50	24.46		
40	QPSK	50	0	23.45	23.43	23.40	24.7	1.0
40	QPSK	50	28	24.30	24.35	24.32	25.7	0.0
40	QPSK	50	56	23.47	23.48	23.37	24.7	1.0
40	QPSK	100	0	23.27	23.37	23.27		
40	16QAM	1	1	23.85	23.77	23.83	24.7	1.0
40	64QAM	1	1	22.15	22.17	22.06	23.2	2.5
40	256QAM	1	1	19.89	19.93	19.87	21.2	4.5
Channel				517092	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99	25.7	0.0
30	QPSK	1	1	24.32	24.33	24.33		
Channel				516090	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610	25.7	0.0
20	QPSK	1	1	24.35	24.38	24.35		
Channel				515592	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49	25.7	0.0
15	PI/2 BPSK	1	1	24.42	24.54	24.44		
Channel				515094	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98	25.7	0.0
10	PI/2 BPSK	1	1	24.48	24.49	24.50		

n41 Ant5 DSIS DFT-30								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	24.56	24.60	24.65		
100	PI/2 BPSK	1	137	24.56	24.56	24.63	25.7	0.0
100	PI/2 BPSK	1	271	24.51	24.51	24.52		
100	PI/2 BPSK	135	0	23.87	23.99	24.06	25.2	0.5
100	PI/2 BPSK	135	69	24.65	24.54	24.50	25.7	0.0
100	PI/2 BPSK	135	138	24.01	24.04	24.15		
100	PI/2 BPSK	270	0	23.85	23.94	23.95	25.2	0.5
100	QPSK	1	1	24.62	24.69	24.67		
100	QPSK	1	137	24.53	24.58	24.62	25.7	0.0
100	QPSK	1	271	24.65	24.65	24.57		
100	QPSK	135	0	23.44	23.49	23.41	24.7	1.0
100	QPSK	135	69	24.38	24.48	24.45	25.7	0.0
100	QPSK	135	138	23.56	23.57	23.58		
100	QPSK	270	0	23.45	23.51	23.36	24.7	1.0
100	16QAM	1	1	23.72	23.78	23.87	24.7	1.0
100	64QAM	1	1	22.16	22.17	22.09	23.2	2.5
100	256QAM	1	1	20.08	19.97	20.06	21.2	4.5
Channel				509200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	25.7	0.0
90	QPSK	1	1	24.46	24.57	24.48		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	25.7	0.0
80	QPSK	1	1	24.38	24.41	24.63		
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	25.7	0.0
70	QPSK	1	1	24.42	24.54	24.44		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98	25.7	0.0
60	QPSK	1	1	24.45	24.52	24.51		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	25.7	0.0
50	QPSK	1	1	24.42	24.55	24.64		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	25.7	0.0
40	QPSK	1	1	24.48	24.49	24.56		
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	25.7	0.0
30	QPSK	1	1	24.45	24.44	24.50		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	25.7	0.0
20	QPSK	1	1	24.42	24.40	24.64		



Par270 n77 Ant10 DSIS DFT-30								
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	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.06	21.11	21.08		
100	PI/2 BPSK	1	137	20.99	21.09	21.01	21.7	0.0
100	PI/2 BPSK	1	271	20.96	21.02	20.92		
100	PI/2 BPSK	135	0	21.10	21.05	21.11	21.7	0.0
100	PI/2 BPSK	135	69	21.11	21.04	20.96	21.7	0.0
100	PI/2 BPSK	135	138	21.07	20.99	21.04	21.7	0.0
100	PI/2 BPSK	270	0	20.86	20.95	20.97		
100	QPSK	1	1	21.00	21.16	20.96		
100	QPSK	1	137	21.14	21.02	21.07	21.7	0.0
100	QPSK	1	271	21.09	21.02	20.95		
100	QPSK	135	0	20.94	20.97	20.87	21.7	0.0
100	QPSK	135	69	20.99	21.05	21.02	21.7	0.0
100	QPSK	135	138	21.02	20.98	20.88	21.7	0.0
100	QPSK	270	0	20.94	20.96	20.93		
100	16QAM	1	1	21.04	21.02	21.01	21.7	0.0
100	64QAM	1	1	21.13	21.10	21.14	21.7	0.0
100	256QAM	1	1	20.68	20.59	20.55	21.2	0.5
Channel				648668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	20.98	20.95	20.90	21.7	0.0
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.05	20.90	21.07	21.7	0.0
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.03	20.97	21.08	21.7	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	20.98	21.09	21.08	21.7	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.04	21.04	21.08	21.7	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.88	21.13	20.97	21.7	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	20.98	21.04	20.89	21.7	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	20.91	20.92	21.01	21.7	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	20.98	21.09	21.08	21.7	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	21.04	21.04	21.06	21.7	0.0

Par27Q n77 Ant10 DSIS DFT-30								
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						633334		
Frequency (MHz)						3500.01		
100	PI/2 BPSK	1	1		21.02			
100	PI/2 BPSK	1	137		21.10		21.7	0.0
100	PI/2 BPSK	1	271		20.85			
100	PI/2 BPSK	135	0		21.05		21.7	0.0
100	PI/2 BPSK	135	69		21.03		21.7	0.0
100	PI/2 BPSK	135	138		20.85		21.7	0.0
100	PI/2 BPSK	270	0		20.89			
100	QPSK	1	1		21.15			
100	QPSK	1	137		20.88		21.7	0.0
100	QPSK	1	271		21.03			
100	QPSK	135	0		20.78		21.7	0.0
100	QPSK	135	69		20.67		21.7	0.0
100	QPSK	135	138		20.77		21.7	0.0
100	QPSK	270	0		20.85			
100	16QAM	1	1		20.95		21.7	0.0
100	64QAM	1	1		20.99		21.7	0.0
100	256QAM	1	1		20.47		21.2	0.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	21.06	21.08	20.97	21.7	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510.01		
80	QPSK	1	1	21.02	20.88	20.94	21.7	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	21.01	20.88	20.78	21.7	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	21.08	20.97	20.81	21.7	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	20.96	20.85	20.96	21.7	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.00	20.91	20.80	21.7	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	20.96	20.85	20.97	21.7	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	20.94	20.96	20.88	21.7	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	21.02	20.88	20.84	21.7	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	20.96	20.85	20.96	21.7	0.0



Part27O n78 Ant10 DSIS PC2&PC3 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	19.28			20.0	0.0	
100	PI/2 BPSK	1	137	19.38					
100	PI/2 BPSK	1	271	19.30			20.0	0.0	
100	PI/2 BPSK	135	0	19.31					
100	PI/2 BPSK	135	69	19.33			20.0	0.0	
100	PI/2 BPSK	135	138	19.29			20.0	0.0	
100	PI/2 BPSK	270	0	19.23			20.0	0.0	
100	QPSK	1	1	19.43			20.0	0.0	
100	QPSK	1	137	19.37					
100	QPSK	1	271	19.38			20.0	0.0	
100	QPSK	135	0	19.24					
100	QPSK	135	69	19.27			20.0	0.0	
100	QPSK	135	138	19.24			20.0	0.0	
100	QPSK	270	0	19.25			20.0	0.0	
100	16QAM	1	1	19.14			20.0	0.0	
100	64QAM	1	1	19.33			20.0	0.0	
100	256QAM	1	1	19.40			20.0	0.0	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	19.18	19.35	19.24	20.0	0.0	
Channel				648334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	19.11	19.15	19.38	20.0	0.0	
Channel				648000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	19.27	19.17	19.38	20.0	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	19.19	19.22	19.35	20.0	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	19.08	19.21	19.31	20.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	19.00	19.30	19.36	20.0	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	19.29	19.19	19.21	20.0	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	19.09	19.29	19.18	20.0	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
15	QPSK	1	1	18.92	19.21	19.18	20.0	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	19.23	19.16	19.17	20.0	0.0	

Part27Q n78 Ant10 DSIS PC2&PC3 DFT-30									
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				633000					
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1	19.13			20.0	0.0	
100	PI/2 BPSK	1	137	19.26					
100	PI/2 BPSK	1	271	19.15			20.0	0.0	
100	PI/2 BPSK	135	0	19.16					
100	PI/2 BPSK	135	69	19.18			20.0	0.0	
100	PI/2 BPSK	135	138	19.23			20.0	0.0	
100	PI/2 BPSK	270	0	19.15			20.0	0.0	
100	QPSK	1	1	19.29			20.0	0.0	
100	QPSK	1	137	19.18					
100	QPSK	1	271	19.21			20.0	0.0	
100	QPSK	135	0	19.15					
100	QPSK	135	69	19.19			20.0	0.0	
100	QPSK	135	138	19.18			20.0	0.0	
100	QPSK	270	0	19.08			20.0	0.0	
100	16QAM	1	1	19.03			20.0	0.0	
100	64QAM	1	1	19.27			20.0	0.0	
100	256QAM	1	1	19.22			20.0	0.0	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	1	19.12	19.22	19.11	20.0	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1	18.92	19.18	18.93	20.0	0.0	
Channel				632334	633334	634334	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)	
70	QPSK	1	1	19.13	19.08	18.93	20.0	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	1	19.01	19.01	18.91	20.0	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1	18.99	19.17	19.10	20.0	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1	19.13	19.11	19.10	20.0	0.0	
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	1	19.01	19.14	19.07	20.0	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1	19.01	19.22	18.98	20.0	0.0	
Channel				630000	633334	636168	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)	
15	QPSK	1	1	19.19	19.29	19.35	20.0	0.0	
Channel				630334	633334	636334	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	1	19.08	19.21	19.31	20.0	0.0	



Par27O n77 Ant11 DSIS DFT-30									
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	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	23.10	23.15	23.23			
100	PI/2 BPSK	1	137	23.05	23.34	23.19	23.7	0.0	
100	PI/2 BPSK	1	271	23.29	23.23	23.14			
100	PI/2 BPSK	135	0	22.88	22.59	22.66	23.7	0.0	
100	PI/2 BPSK	135	69	23.08	23.14	23.24	23.7	0.0	
100	PI/2 BPSK	135	138	22.41	22.53	22.57	23.7	0.0	
100	PI/2 BPSK	270	0	22.56	22.61	22.61			
100	QPSK	1	1	23.12	23.44	23.11			
100	QPSK	1	137	23.26	23.29	23.26	23.7	0.0	
100	QPSK	1	271	23.18	23.27	23.28			
100	QPSK	135	0	22.03	22.21	22.26	23.7	0.0	
100	QPSK	135	69	23.10	23.18	23.00	23.7	0.0	
100	QPSK	135	138	23.12	23.10	23.07	23.7	0.0	
100	QPSK	270	0	23.17	23.39	23.32			
100	16QAM	1	1	23.11	23.22	23.26	23.7	0.0	
100	64QAM	1	1	22.57	22.96	22.65	23.2	0.5	
100	256QAM	1	1	20.60	21.05	20.55	21.2	2.5	
Channel				649698	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.92	3840	3935.01	(dB)	(dB)	
90	QPSK	1	1	22.92	23.33	22.93	23.7	0.0	
Channel				648334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dB)	(dB)	
80	QPSK	1	1	22.61	23.24	23.10	23.7	0.0	
Channel				648900	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dB)	(dB)	
70	QPSK	1	1	23.03	23.24	22.94	23.7	0.0	
Channel				648698	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dB)	(dB)	
60	QPSK	1	1	22.92	23.40	22.95	23.7	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dB)	(dB)	
50	QPSK	1	1	23.15	23.40	23.02	23.7	0.0	
Channel				648900	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dB)	(dB)	
40	QPSK	1	1	23.15	23.25	23.08	23.7	0.0	
Channel				647698	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dB)	(dB)	
30	QPSK	1	1	23.07	23.42	23.05	23.7	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dB)	(dB)	
20	QPSK	1	1	23.03	23.28	22.90	23.7	0.0	
Channel				647198	656000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.62	3840	3972.51	(dB)	(dB)	
15	QPSK	1	1	22.92	23.40	22.95	23.7	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dB)	(dB)	
10	QPSK	1	1	23.34	23.27	23.06	23.7	0.0	

Par27Q n77 Ant11 DSIS DFT-30									
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				633000	633334	633668			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI/2 BPSK	1	1	23.18	23.33	23.28			
100	PI/2 BPSK	1	137	23.25	23.25	23.25	23.7	0.0	
100	PI/2 BPSK	1	271	23.12	23.12	23.12			
100	PI/2 BPSK	135	0	22.49	22.49	22.49	23.7	0.0	
100	PI/2 BPSK	135	69	22.99	22.99	22.99	23.7	0.0	
100	PI/2 BPSK	135	138	22.32	22.32	22.32	23.7	0.0	
100	PI/2 BPSK	270	0	22.60	22.60	22.60			
100	QPSK	1	1	23.37	23.37	23.37			
100	QPSK	1	137	23.19	23.19	23.19	23.7	0.0	
100	QPSK	1	271	23.10	23.10	23.10			
100	QPSK	135	0	22.16	22.16	22.16	23.7	0.0	
100	QPSK	135	69	22.97	22.97	22.97	23.7	0.0	
100	QPSK	135	138	22.89	22.89	22.89	23.7	0.0	
100	QPSK	270	0	23.37	23.37	23.37			
100	16QAM	1	1	23.09	23.09	23.09	23.7	0.0	
100	64QAM	1	1	22.91	22.91	22.91	23.7	0.5	
100	256QAM	1	1	20.84	20.84	20.84	22.2	2.5	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dB)	(dB)	
90	QPSK	1	1	23.18	23.33	23.28	23.7	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dB)	(dB)	
80	QPSK	1	1	23.34	23.31	23.17	23.7	0.0	
Channel				632334	633334	634334	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dB)	(dB)	
70	QPSK	1	1	23.31	23.22	22.97	23.7	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dB)	(dB)	
60	QPSK	1	1	23.34	23.27	23.06	23.7	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dB)	(dB)	
50	QPSK	1	1	23.28	23.21	22.99	23.7	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dB)	(dB)	
40	QPSK	1	1	23.26	23.19	23.02	23.7	0.0	
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dB)	(dB)	
30	QPSK	1	1	23.33	23.21	23.04	23.7	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dB)	(dB)	
20	QPSK	1	1	23.15	23.32	22.99	23.7	0.0	
Channel				630300	633334	636168	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dB)	(dB)	
15	QPSK	1	1	22.92	23.40	22.95	23.7	0.0	
Channel				630334	633334	636334	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dB)	(dB)	
10	QPSK	1	1	23.07	23.42	23.05	23.7	0.0	



Part270 n78 Ant11 DSI5 PC2&PC3 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	23.53			24.0	0.0	
100	PI/2 BPSK	1	137	23.56					
100	PI/2 BPSK	1	271	23.48			24.0	0.0	
100	PI/2 BPSK	135	0	23.39					
100	PI/2 BPSK	135	69	23.58			24.0	0.0	
100	PI/2 BPSK	135	138	23.43			24.0	0.0	
100	PI/2 BPSK	270	0	23.49			24.0	0.0	
100	QPSK	1	1	23.59			24.0	0.0	
100	QPSK	1	137	23.53					
100	QPSK	1	271	23.53			24.0	0.0	
100	QPSK	135	0	23.31					
100	QPSK	135	69	23.39			24.0	0.0	
100	QPSK	135	138	23.30			24.0	0.0	
100	QPSK	270	0	23.39			24.0	0.0	
100	16QAM	1	1	23.53			23.7	0.0	
100	64QAM	1	1	23.02			23.2	0.8	
100	256QAM	1	1	21.01			21.2	2.3	
Channel				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	23.47	23.50	23.53	24.0	0.0	
Channel				648334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	23.23	23.30	23.45	24.0	0.0	
Channel				648000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	23.34	23.30	23.35	24.0	0.0	
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	23.30	23.32	23.40	24.0	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	23.40	23.32	23.43	24.0	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	23.44	23.42	23.37	24.0	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	23.45	23.38	23.43	24.0	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	23.40	23.34	23.41	24.0	0.0	
Channel				647168	650000	652834			
Frequency (MHz)				3707.62	3750	3792.51			
15	QPSK	1	1	23.46	23.32	23.43	24.0	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	23.28	23.39	23.48	24.0	0.0	

Part27Q n78 Ant11 DSI5 PC2&PC3 DFT-30									
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				633000					
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1	23.45					
100	PI/2 BPSK	1	137	23.47					
100	PI/2 BPSK	1	271	23.46			24.0	0.0	
100	PI/2 BPSK	135	0	23.30					
100	PI/2 BPSK	135	69	23.39			24.0	0.0	
100	PI/2 BPSK	135	138	23.30			24.0	0.0	
100	PI/2 BPSK	270	0	23.32			24.0	0.0	
100	QPSK	1	1	23.52					
100	QPSK	1	137	23.45			24.0	0.0	
100	QPSK	1	271	23.44					
100	QPSK	135	0	23.11					
100	QPSK	135	69	23.20			24.0	0.0	
100	QPSK	135	138	23.15			24.0	0.0	
100	QPSK	270	0	23.18			24.0	0.0	
100	16QAM	1	1	23.34			23.7	0.0	
100	64QAM	1	1	23.04			23.2	0.0	
100	256QAM	1	1	21.01			21.2	1.5	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	23.37	23.35	23.41	24.0	0.0	
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	23.45	23.38	23.31	24.0	0.0	
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	23.35	23.20	23.39	24.0	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	23.32	23.34	23.30	24.0	0.0	
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	23.27	23.18	23.37	24.0	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	23.31	23.22	23.32	24.0	0.0	
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	23.37	23.16	23.36	24.0	0.0	
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	23.32	23.23	23.24	24.0	0.0	
Channel				630334	633334	636334			
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	23.35	23.20	23.39	24.0	0.0	
Channel				630000	633334	636668			
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	23.27	23.18	23.37	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	PI2 BPSK	1	1	23.37	23.38	23.54		
100	PI2 BPSK	1	137	23.33	23.44	23.30	24.7	0.0
100	PI2 BPSK	1	271	23.45	23.40	23.43		
100	PI2 BPSK	135	0	23.29	23.33	23.48	24.7	0.0
100	PI2 BPSK	135	69	23.26	23.21	23.44	24.7	0.0
100	PI2 BPSK	135	138	23.21	23.21	23.51		
100	PI2 BPSK	270	0	23.20	23.25	23.34	24.7	0.0
100	QPSK	1	1	23.23	23.07	23.34		
100	QPSK	1	137	23.46	23.45	23.49	24.7	0.0
100	QPSK	1	271	23.49	23.57	23.48		
100	QPSK	135	0	22.33	22.22	22.52	24.7	0.0
100	QPSK	135	69	23.25	23.35	23.24	24.7	0.0
100	QPSK	135	138	23.33	23.34	23.35		
100	QPSK	270	0	23.26	23.35	23.34	24.7	0.0
100	16QAM	1	1	23.18	23.23	23.43	24.7	0.0
100	64QAM	1	1	21.71	22.28	21.88	23.2	1.5
100	256QAM	1	1	19.72	20.21	19.91	21.2	3.5
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	23.11	23.65	23.35	24.7	0.0
Channel				63334	63334	63334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	23.17	23.47	23.25	24.7	0.0
Channel				64900	65000	65000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3724	3840	3945		
70	QPSK	1	1	23.24	23.52	23.13	24.7	0.0
Channel				64868	65000	65334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	23.05	23.61	23.18	24.7	0.0
Channel				64334	65000	65334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	23.10	23.51	23.15	24.7	0.0
Channel				64800	65000	65000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3723	3840	3950		
40	QPSK	1	1	23.05	23.60	23.25	24.7	0.0
Channel				64768	65000	65434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	23.23	23.61	23.33	24.7	0.0
Channel				64334	65000	65334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	23.14	23.54	23.27	24.7	0.0
Channel				647168	65000	65434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	23.05	23.60	23.25	24.7	0.0
Channel				647000	65000	65000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	23.05	23.61	23.18	24.7	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)				3900.01				
100	PI2 BPSK	1	1		23.28			
100	PI2 BPSK	1	137		23.37		24.7	0.0
100	PI2 BPSK	1	271		23.45			
100	PI2 BPSK	135	0		23.23		24.7	0.0
100	PI2 BPSK	135	69		23.19		24.7	0.0
100	PI2 BPSK	135	138		23.09			
100	PI2 BPSK	270	0		23.13		24.7	0.0
100	QPSK	1	1		23.68			
100	QPSK	1	137		23.31		24.7	0.0
100	QPSK	1	271		23.56			
100	QPSK	135	0		22.23		24.7	0.0
100	QPSK	135	69		23.38		24.7	0.0
100	QPSK	135	138		23.30			
100	QPSK	270	0		23.37		24.7	0.0
100	16QAM	1	1		22.20		23.2	1.5
100	64QAM	1	1		20.04		21.2	3.5
Channel				63300	63334	63668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	23.42	23.56	23.47	24.7	0.0
Channel				63368	63334	63500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	23.24	23.54	23.48	24.7	0.0
Channel				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	23.21	23.46	23.39	24.7	0.0
Channel				63200	63334	63668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	23.22	23.35	23.33	24.7	0.0
Channel				63168	63334	63500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	23.44	23.43	23.44	24.7	0.0
Channel				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	23.23	23.55	23.39	24.7	0.0
Channel				63100	63334	63668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	23.22	23.54	23.43	24.7	0.0
Channel				63068	63334	63500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	23.42	23.41	23.42	24.7	0.0
Channel				63050	63334	63618	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.52	3500.01	3542.52		
15	QPSK	1	1	23.22	23.35	23.33	24.7	0.0
Channel				63034	63334	63634	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	23.23	23.55	23.39	24.7	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	3750	3750		
100	PI2 BPSK	1	1		23.05			
100	PI2 BPSK	1	137		22.91		24.0	0.0
100	PI2 BPSK	1	271		23.00			
100	PI2 BPSK	135	0		22.53		23.5	0.5
100	PI2 BPSK	135	69		22.91		24.0	0.0
100	PI2 BPSK	135	138		22.56			
100	PI2 BPSK	270	0		22.51		23.5	0.5
100	QPSK	1	1		23.10			
100	QPSK	1	137		22.99		24.0	0.0
100	QPSK	1	271		23.08			
100	QPSK	135	0		21.94		23.0	1.0
100	QPSK	135	69		23.05		24.0	0.0
100	QPSK	135	138		21.94			
100	QPSK	270	0		22.07		23.0	1.0
100	16QAM	1	1		22.00		23.0	1.0
100	64QAM	1	1		20.59		21.5	2.5
100	256QAM	1	1		19.51		19.5	4.5
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	23.00	23.01	22.86	24.0	0.0
Channel				64334	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	23.03	23.00	23.05	24.0	0.0
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.96	23.03	22.97	24.0	0.0
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	23.03	22.98	23.03	24.0	0.0
Channel				64334	65000	65168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.95	22.95	23.03	24.0	0.0
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3723	3750	3783		
40	QPSK	1	1	23.04	23.00	23.01	24.0	0.0
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.95	22.94	22.87	24.0	0.0
Channel				64334	65000	65268	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	23.01	22.97	23.05	24.0	0.0
Channel				647168	65000	65284	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	22.96	23.03	22.97	24.0	0.0
Channel				647000	65000	65300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.95	22.95	23.03	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								
Frequency (MHz)								
100	PI2 BPSK	1	1	3500.01	3500.01	3500.01		
100	PI2 BPSK	1	137	23.01	23.15	23.15	24.0	0.0
100	PI2 BPSK	1	271	23.14	23.14	23.14		
100	PI2 BPSK	135	0	22.70	22.70	22.70	26.5	0.0
100	PI2 BPSK	135	69	23.08	23.08	23.08	24.0	0.0
100	PI2 BPSK	135	138	22.73	22.73	22.73	26.5	0.0
100	PI2 BPSK	270	0	22.81	22.81	22.81	23.5	0.5
100	QPSK	1	1	33.28	33.28	33.28		
100	QPSK	1	137	23.15	23.15	23.15	24.0	0.0
100	QPSK	1	271	23.26	23.26	23.26		
100	QPSK	135	0	22.94	22.94	22.94	24.0	0.0
100	QPSK	135	69	23.18	23.18	23.18	21.5	2.5
100	QPSK	135	138	22.99	22.99	22.99	23.0	1.0
100	QPSK	270	0	22.25	22.25	22.25	23.0	1.0
100	16QAM	1	1	22.19	22.19	22.19	23.0	1.0
100	64QAM	1	1	20.86	20.86	20.86	21.5	2.5
100	256QAM	1	1	19.62	19.62	19.62	19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	3495	3500.01	3505.02	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.16	23.22	23.17	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.21	23.17	23.23	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.23	23.16	23.13	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.19	23.20	23.14	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.21	23.12	23.20	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.17	23.16	23.19	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.17	23.13	23.16	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.21	23.17	23.23	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.21	23.12	23.14	24.0	0.0

Part27O n78 Ant12 DS15 PC2 DFT-30

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3750	3750		
100	PI2 BPSK	1	137	24.82	24.82	24.82	26.5	0.0
100	PI2 BPSK	1	271	24.83	24.83	24.83		
100	PI2 BPSK	135	0	24.21	24.21	24.21	26.5	0.0
100	PI2 BPSK	135	69	24.80	24.80	24.80	26.5	0.0
100	PI2 BPSK	135	138	24.51	24.51	24.51	26.5	0.0
100	PI2 BPSK	270	0	24.87	24.87	24.87	26.5	0.0
100	QPSK	1	1	24.88	24.88	24.88		
100	QPSK	1	137	24.58	24.58	24.58	26.5	0.0
100	QPSK	1	271	24.59	24.59	24.59		
100	QPSK	135	0	24.12	24.12	24.12	26.0	0.5
100	QPSK	135	69	24.85	24.85	24.85	26.5	0.0
100	QPSK	135	138	24.18	24.18	24.18	26.0	0.5
100	QPSK	270	0	24.08	24.08	24.08	26.0	0.5
100	16QAM	1	1	24.11	24.11	24.11	26.0	0.5
100	64QAM	1	1	22.55	22.55	22.55	24.5	2.0
100	256QAM	1	1	20.85	20.85	20.85	22.5	4.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	24.05	24.81	24.66	26.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.57	24.51	24.40	26.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.56	24.80	24.57	26.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.55	24.86	24.65	26.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.80	24.66	24.67	26.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.08	24.66	24.54	26.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.08	24.54	24.57	26.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.64	24.67	24.67	26.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.60	24.66	24.67	26.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.68	24.54	24.57	26.5	0.0

Part27Q 78 Ant12 DS15 PC2 DFT-30

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3500.01	3500.01	3500.01		
100	PI2 BPSK	1	137	24.83	24.83	24.83	26.5	0.0
100	PI2 BPSK	1	271	24.84	24.84	24.84		
100	PI2 BPSK	135	0	24.80	24.80	24.80	26.5	0.0
100	PI2 BPSK	135	69	24.53	24.53	24.53	26.5	0.0
100	PI2 BPSK	135	138	24.82	24.82	24.82	26.5	0.0
100	PI2 BPSK	270	0	24.56	24.56	24.56	26.5	0.0
100	QPSK	1	1	24.89	24.89	24.89		
100	QPSK	1	137	24.85	24.85	24.85	26.5	0.0
100	QPSK	1	271	24.58	24.58	24.58		
100	QPSK	135	0	24.08	24.08	24.08	26.0	0.5
100	QPSK	135	69	24.68	24.68	24.68	26.5	0.0
100	QPSK	135	138	24.14	24.14	24.14	26.0	0.5
100	QPSK	270	0	24.15	24.15	24.15	26.0	0.5
100	16QAM	1	1	24.55	24.55	24.55	26.0	0.5
100	64QAM	1	1	22.59	22.59	22.59	24.5	2.0
100	256QAM	1	1	20.58	20.58	20.58	22.5	4.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	24.58	24.80	24.55	26.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.51	24.56	24.50	26.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.60	24.52	24.68	26.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.61	24.72	24.56	26.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.80	24.53	24.63	26.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.71	24.67	24.57	26.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.68	24.53	24.52	26.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.49	24.55	24.66	26.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.61	24.72	24.56	26.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.60	24.52	24.68	26.5	0.0



Par270 n77 Ant13 DSIS DFT-30								
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	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.55	19.75	19.56		
100	PI/2 BPSK	1	137	19.76	19.76	19.54	20.2	0.0
100	PI/2 BPSK	1	271	19.59	19.68	19.69		
100	PI/2 BPSK	135	0	19.55	19.74	19.69	20.2	0.0
100	PI/2 BPSK	135	69	19.80	19.71	19.72	20.2	0.0
100	PI/2 BPSK	135	138	19.45	19.56	19.34	20.2	0.0
100	PI/2 BPSK	270	0	19.62	19.63	19.64		
100	QPSK	1	1	19.67	19.69	19.68		
100	QPSK	1	137	19.73	19.73	19.59	20.2	0.0
100	QPSK	1	271	19.64	19.68	19.55		
100	QPSK	135	0	19.66	19.62	19.66	20.2	0.0
100	QPSK	135	69	19.62	19.67	19.47	20.2	0.0
100	QPSK	135	138	19.52	19.62	19.42	20.2	0.0
100	QPSK	270	0	19.63	19.61	19.47		
100	16QAM	1	1	19.69	19.88	19.84	20.2	0.0
100	64QAM	1	1	19.81	19.84	19.70	20.2	0.0
100	256QAM	1	1	19.55	19.70	19.67	20.2	0.0
Channel				648968	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.51	19.74	19.59	20.2	0.0
Channel				648334	656000	662688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.50	19.67	19.60	20.2	0.0
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	19.67	19.81	19.51	20.2	0.0
Channel				648688	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.60	19.71	19.65	20.2	0.0
Channel				648000	656000	663688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	19.48	19.88	19.70	20.2	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.58	19.69	19.68	20.2	0.0
Channel				647888	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	19.61	19.80	19.47	20.2	0.0
Channel				647334	656000	664688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.47	19.68	19.55	20.2	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.62	3840	3975.51		
15	QPSK	1	1	19.46	19.88	19.70	20.2	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	19.67	19.81	19.51	20.2	0.0

Part27Q n77 Ant13 DSIS DFT-30								
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				633000	633334	633668		
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1	19.54				
100	PI/2 BPSK	1	137	19.53			20.2	0.0
100	PI/2 BPSK	1	271	19.51				
100	PI/2 BPSK	135	0	19.75			20.2	0.0
100	PI/2 BPSK	135	69	19.57			20.2	0.0
100	PI/2 BPSK	135	138	19.48			20.2	0.0
100	PI/2 BPSK	270	0	19.47				
100	QPSK	1	1	19.73				
100	QPSK	1	137	19.66			20.2	0.0
100	QPSK	1	271	19.59				
100	QPSK	135	0	19.52			20.2	0.0
100	QPSK	135	69	19.55			20.2	0.0
100	QPSK	135	138	19.47			20.2	0.0
100	QPSK	270	0	19.38				
100	16QAM	1	1	19.89			20.2	0.0
100	64QAM	1	1	19.65			20.2	0.0
100	256QAM	1	1	19.53			20.2	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	19.31	19.40	19.57	20.2	0.0
Channel				632688	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	19.40	19.59	19.50	20.2	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	19.31	19.45	19.69	20.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.35	19.55	19.57	20.2	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.43	19.58	19.50	20.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.43	19.43	19.73	20.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	19.53	19.34	19.62	20.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.32	19.39	19.59	20.2	0.0
Channel				630300	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	19.31	19.45	19.69	20.2	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	19.43	19.43	19.73	20.2	0.0



Part270 n78 Ant13 DSI5 PC2&PC3 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					650000				
Frequency (MHz)					3750				
100	PI/2 BPSK	1	1		21.38				
100	PI/2 BPSK	1	137		21.22		22.5	0.0	
100	PI/2 BPSK	1	271		21.09				
100	PI/2 BPSK	135	0		21.04		22.5	0.0	
100	PI/2 BPSK	135	69		21.19		22.5	0.0	
100	PI/2 BPSK	135	138		21.04				
100	PI/2 BPSK	270	0		20.72		22.5	0.0	
100	QPSK	1	1		21.54				
100	QPSK	1	137		21.22		22.5	0.0	
100	QPSK	1	271		21.22				
100	QPSK	135	0		20.54		22.5	0.0	
100	QPSK	135	69		21.41		22.5	0.0	
100	QPSK	135	138		20.54				
100	QPSK	270	0		20.52		22.5	0.0	
100	16QAM	1	1		21.22		22.5	0.0	
100	64QAM	1	1		21.16		21.5	1.0	
100	256QAM	1	1		19.25		19.5	3.0	
Channel				649668	650000	650334		MPR	
Frequency (MHz)				3745.02	3750	3755.01		Tune-up limit (dBm)	
90	QPSK	1	1		21.43	21.42	21.43	22.5	0.0
Channel				649334	650000	650668		MPR	
Frequency (MHz)				3740.01	3750	3760.02		Tune-up limit (dBm)	
80	QPSK	1	1		21.36	21.29	21.34	22.5	0.0
Channel				649000	650000	651000		MPR	
Frequency (MHz)				3735	3750	3765		Tune-up limit (dBm)	
70	QPSK	1	1		21.24	21.44	21.29	22.5	0.0
Channel				648668	650000	651334		MPR	
Frequency (MHz)				3730.02	3750	3770.01		Tune-up limit (dBm)	
60	QPSK	1	1		21.37	21.38	21.40	22.5	0.0
Channel				648334	650000	651668		MPR	
Frequency (MHz)				3725.01	3750	3775.02		Tune-up limit (dBm)	
50	QPSK	1	1		21.47	21.25	21.44	22.5	0.0
Channel				648000	650000	652000		MPR	
Frequency (MHz)				3720	3750	3780		Tune-up limit (dBm)	
40	QPSK	1	1		21.30	21.17	21.27	22.5	0.0
Channel				647668	650000	652334		MPR	
Frequency (MHz)				3715.02	3750	3785.01		Tune-up limit (dBm)	
30	QPSK	1	1		21.35	21.42	21.48	22.5	0.0
Channel				647334	650000	652668		MPR	
Frequency (MHz)				3710.01	3750	3790.02		Tune-up limit (dBm)	
20	QPSK	1	1		21.43	21.29	21.34	22.5	0.0
Channel				647000	650000	652834		MPR	
Frequency (MHz)				3707.52	3750	3792.51		Tune-up limit (dBm)	
15	QPSK	1	1		21.30	21.17	21.27	22.5	0.0
Channel				647000	650000	653000		MPR	
Frequency (MHz)				3705	3750	3795		Tune-up limit (dBm)	
10	QPSK	1	1		21.24	21.44	21.29	22.5	0.0

Part27Q n78 Ant13 DSI5 PC2&PC3 DFT-30									
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					633334				
Frequency (MHz)					3500.01				
100	PI/2 BPSK	1	1		21.62				
100	PI/2 BPSK	1	137		21.20		22.5	0.0	
100	PI/2 BPSK	1	271		21.31				
100	PI/2 BPSK	135	0		21.19		22.5	0.0	
100	PI/2 BPSK	135	69		21.31		22.5	0.0	
100	PI/2 BPSK	135	138		20.96				
100	PI/2 BPSK	270	0		20.71		22.5	0.0	
100	QPSK	1	1		21.69				
100	QPSK	1	137		21.18		22.5	0.0	
100	QPSK	1	271		21.46				
100	QPSK	135	0		20.68		22.5	0.0	
100	QPSK	135	69		21.51		22.5	0.0	
100	QPSK	135	138		20.67				
100	QPSK	270	0		20.70		22.5	0.0	
100	16QAM	1	1		20.68		22.5	0.0	
100	64QAM	1	1		21.21		21.5	1.0	
100	256QAM	1	1		19.26		19.5	3.0	
Channel				633000	633334	633668		MPR	
Frequency (MHz)				3495	3500.01	3505.02		Tune-up limit (dBm)	
90	QPSK	1	1		21.57	21.61	21.49	22.5	0.0
Channel				632668	633334	634000		MPR	
Frequency (MHz)				3490.02	3500.01	3510.01		Tune-up limit (dBm)	
80	QPSK	1	1		21.45	21.42	21.35	22.5	0.0
Channel				632334	633334	634334		MPR	
Frequency (MHz)				3485.01	3500.01	3515.01		Tune-up limit (dBm)	
70	QPSK	1	1		21.53	21.39	21.38	22.5	0.0
Channel				632000	633334	634668		MPR	
Frequency (MHz)				3480	3500.01	3520.02		Tune-up limit (dBm)	
60	QPSK	1	1		21.37	21.49	21.25	22.5	0.0
Channel				631668	633334	635000		MPR	
Frequency (MHz)				3475.02	3500.01	3525		Tune-up limit (dBm)	
50	QPSK	1	1		21.42	21.63	21.47	22.5	0.0
Channel				631334	633334	635334		MPR	
Frequency (MHz)				3470.01	3500.01	3530.01		Tune-up limit (dBm)	
40	QPSK	1	1		21.57	21.47	21.34	22.5	0.0
Channel				631000	633334	635668		MPR	
Frequency (MHz)				3465	3500.01	3535.02		Tune-up limit (dBm)	
30	QPSK	1	1		21.42	21.50	21.34	22.5	0.0
Channel				630668	633334	636000		MPR	
Frequency (MHz)				3460.02	3500.01	3540		Tune-up limit (dBm)	
20	QPSK	1	1		21.34	21.50	21.46	22.5	0.0
Channel				630500	633334	636168		MPR	
Frequency (MHz)				3457.5	3500.01	3542.52		Tune-up limit (dBm)	
15	QPSK	1	1		21.45	21.42	21.35	22.5	0.0
Channel				630334	633334	636334		MPR	
Frequency (MHz)				3455.01	3500.01	3545.01		Tune-up limit (dBm)	
10	QPSK	1	1		21.57	21.47	21.34	22.5	0.0



WLAN/Bluetooth Power

2.4GHz WLAN				Avg 16	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %
802.11b-1Mbps	1	2412	19.40	20.50	100.00
	6	2437	19.53	20.50	
	11	2462	19.19	20.50	
802.11g-6Mbps	1	2412	19.12	20.50	100.00
	6	2437	19.29	20.50	
	11	2462	18.66	20.50	
802.11n-HT40 MCS0	1	2412	18.19	20.00	100.00
	6	2437	18.55	20.00	
	11	2462	17.98	19.50	
802.11n-HT40 MCS0	3	2452	17.89	19.50	100.00
	6	2437	18.17	19.50	
	9	2452	17.86	19.50	
802.11n-HE30 MCS0	1	2412	18.79	20.50	100.00
	6	2437	18.16	20.50	
	11	2462	18.29	20.00	
802.11n-HE40 MCS0	3	2452	17.79	19.50	100.00
	6	2437	17.98	19.50	
	9	2452	17.49	19.00	

2.4GHz WLAN				Avg 18	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %
802.11b-1Mbps	1	2412	19.11	20.50	100.00
	6	2437	19.32	20.50	
	11	2462	18.95	20.50	
802.11g-6Mbps	1	2412	18.82	20.50	100.00
	6	2437	18.78	20.50	
	11	2462	18.28	20.00	
802.11n-HT20 MCS0	1	2412	17.92	19.50	100.00
	6	2437	18.06	20.00	
	11	2462	17.89	19.50	
802.11n-HT40 MCS0	3	2452	17.88	19.50	100.00
	6	2437	17.69	19.50	
	9	2452	17.81	19.50	
802.11n-HE30 MCS0	1	2412	18.46	20.00	100.00
	6	2437	18.59	20.50	
	11	2462	18.44	20.00	
802.11n-HE40 MCS0	3	2452	17.83	19.50	100.00
	6	2437	17.53	19.50	
	9	2452	17.39	19.00	

802.10-18				Full power		For HSPA+ Simultaneous		For HSPA+ Standalone		For HSPA+ OAB		For HSPA+ Simultaneous		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Duty Cycle %
802.11b-1Mbps	1	2412	22.27	23.50	100.00	17.16	18.50	16.91	18.00	15.76	18.50	15.96	11.50	
	6	2437	22.44	23.50		17.30	18.50	17.13	18.00	15.94	18.50	11.65	11.50	
	11	2462	22.08	23.50		17.23	18.50	16.86	18.00	15.88	18.50	10.83	11.50	
802.11g-6Mbps	1	2412	21.89	23.50	100.00	18.50	18.00	18.50	18.00	18.50	18.00	18.50	11.50	
	6	2437	20.55	23.50		18.50	18.00	18.50	18.00	18.50	18.00	18.50	11.50	
	11	2462	21.48	23.00		18.50	18.00	18.50	18.00	18.50	18.00	18.50	11.50	
802.11n-HT20 MCS0	1	2412	21.07	23.00	100.00	18.50	18.00	18.50	18.00	18.50	18.00	18.50	11.50	
	6	2437	21.32	23.00		18.50	18.00	18.50	18.00	18.50	18.00	18.50	11.50	
	11	2462	20.96	22.50		18.50	18.00	18.50	18.00	18.50	18.00	18.50	11.50	
802.11n-HT40 MCS0	3	2452	20.75	22.50	100.00	18.50	18.00	18.50	18.00	18.50	18.00	18.50	11.50	
	6	2437	20.95	22.50		18.50	18.00	18.50	18.00	18.50	18.00	18.50	11.50	
	9	2452	20.65	22.50		18.50	18.00	18.50	18.00	18.50	18.00	18.50	11.50	
802.11n-HE30 MCS0	1	2412	21.84	23.50	100.00	18.50	18.00	18.50	18.00	18.50	18.00	18.50	11.50	
	6	2437	21.89	23.50		18.50	18.00	18.50	18.00	18.50	18.00	18.50	11.50	
	11	2462	21.38	23.00		18.50	18.00	18.50	18.00	18.50	18.00	18.50	11.50	
802.11n-HE40 MCS0	3	2452	20.72	22.50	100.00	18.50	18.00	18.50	18.00	18.50	18.00	18.50	11.50	
	6	2437	20.77	22.50		18.50	18.00	18.50	18.00	18.50	18.00	18.50	11.50	
	9	2452	20.45	22.00		18.50	18.00	18.50	18.00	18.50	18.00	18.50	11.50	



BT BR/EDR Ant16 Full power

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	15.15	12.37	12.24
	CH 39	2441	15.28	12.58	12.23
	CH 78	2480	15.09	12.37	12.08
Tune-up Limit			16.5	14	14

BT BR/EDR Ant18 Full power

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	15.79	12.75	13.05
	CH 39	2441	15.95	12.79	13.11
	CH 78	2480	16.11	13.00	12.87
Tune-up Limit			17	14	14.5

BT BR/EDR Ant16 Receiver on

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	7.22	Not Required	Not Required
	CH 39	2441	7.38		
	CH 78	2480	7.10		
Tune-up Limit			8.5	8.5	8.5

BT BR/EDR Ant18 Receiver on

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	8.43	Not Required	Not Required
	CH 39	2441	8.52		
	CH 78	2480	8.66		
Tune-up Limit			9	9	9

BT LE 1Mbps Ant16

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
LE	CH 00	2402	5.73		
	CH 19	2440	6.85		
	CH 39	2480	4.99		
Tune-up Limit			7		

BT LE 1Mbps Ant18

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
LE	CH 00	2402	8.74		
	CH 19	2440	9.37		
	CH 39	2480	8.11		
Tune-up Limit			10		

BT LE 2Mbps Ant16

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
LE	CH 00	2402	5.57		
	CH 19	2440	6.56		
	CH 39	2480	5.34		
Tune-up Limit			7		

BT LE 2Mbps Ant18

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
LE	CH 00	2402	8.85		
	CH 19	2440	9.54		
	CH 39	2480	8.15		
Tune-up Limit			10		