

Reduced Power Mode for DSI1

Band 2 other PA Ant 2 DSI 1														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch/Freq	Power Mids Ch/Freq	Power High Ch/Freq	Turn-on time (ms)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	17.60	17.61	17.62	18.5	0						
20	QPSK	1	49	17.54	17.51	17.50								
20	QPSK	1	99	17.48	17.52	17.45								
20	QPSK	1	149	17.42	17.58	17.55								
20	QPSK	50	24	17.43	17.40	17.38	18.5	1						
20	QPSK	50	50	17.34	17.47	17.33								
20	QPSK	100	0	17.40	17.51	17.40								
20	QPSK	1	0	17.42	17.45	17.43								
20	16QAM	1	49	17.51	17.47	17.44	18.5	0						
20	16QAM	1	99	17.40	17.47	17.34								
20	16QAM	50	0	17.41	17.43	17.33								
20	16QAM	50	24	17.35	17.32	17.30								
20	16QAM	100	0	17.37	17.48	17.34	18.5	0						
20	16QAM	1	0	17.50	17.47	17.38								
20	16QAM	1	99	17.52	17.49	17.33								
20	16QAM	50	0	17.34	17.48	17.37								
20	16QAM	50	24	17.34	17.36	17.37	18.5	0						
20	16QAM	100	0	17.45	17.42	17.35								
20	256QAM	1	49	17.51	17.47	17.43								
20	256QAM	1	99	17.36	17.38	17.34								
20	256QAM	50	0	17.40	17.48	17.40	19.5	0						
20	256QAM	50	24	17.36	17.30	17.31								
20	256QAM	50	50	17.29	17.37	17.28								
20	256QAM	50	0	17.40	17.48	17.28								
Channel														
Frequency (MHz)														
16	QPSK	1	0	16.675	16.690	16.710	18.5	0						
16	QPSK	1	37	16.71	16.68	16.72								
16	QPSK	1	74	17.37	17.39	17.38								
16	QPSK	1	111	17.37	17.40	17.35								
16	QPSK	36	20	17.38	17.37	17.33	18.5	0						
16	QPSK	36	36	17.26	17.38	17.22								
16	QPSK	36	73	17.38	17.36	17.32								
16	QPSK	36	110	17.38	17.37	17.33								
16	16QAM	1	0	17.34	17.42	17.32	18.5	0						
16	16QAM	1	37	17.44	17.39	17.42								
16	16QAM	36	0	17.45	17.48	17.40								
16	16QAM	36	0	17.31	17.40	17.31								
16	16QAM	36	20	17.25	17.27	17.17	18.5	0						
16	16QAM	36	36	17.23	17.29	17.17								
16	16QAM	75	0	17.27	17.37	17.27								
16	16QAM	1	0	17.46	17.36	17.27								
16	16QAM	36	0	17.42	17.43	17.27	18.5	0						
16	16QAM	1	74	17.20	17.44	17.25								
16	16QAM	36	0	17.21	17.44	17.21								
16	16QAM	36	20	17.23	17.23	17.19								
16	16QAM	36	36	17.13	17.30	17.20	18.5	0						
16	16QAM	75	0	17.20	17.37	17.25								
16	16QAM	36	36	17.13	17.38	17.21								
16	16QAM	36	73	17.13	17.38	17.21								
16	256QAM	1	37	17.46	17.34	17.29	18.5	0						
16	256QAM	1	74	17.27	17.26	17.30								
16	256QAM	50	0	17.30	17.42	17.27								
16	256QAM	50	24	17.26	17.30	17.25								
16	256QAM	50	50	17.20	17.28	17.25	19.5	0						
16	256QAM	50	0	17.30	17.40	17.28								
16	256QAM	50	24	17.26	17.38	17.25								
16	256QAM	50	50	17.20	17.38	17.25								
Channel														
Frequency (MHz)														
10	QPSK	1	0	17.44	17.44	17.43	18.5	0						
10	QPSK	1	25	17.47	17.44	17.47								
10	QPSK	1	49	17.52	17.39	17.35								
10	QPSK	1	74	17.42	17.48	17.45								
10	QPSK	25	12	17.38	17.34	17.27	18.5	0						
10	QPSK	25	25	17.32	17.37	17.25								
10	QPSK	25	37	17.40	17.40	17.28								
10	QPSK	25	49	17.40	17.40	17.28								
10	16QAM	1	0	17.30	17.35	17.32	18.5	0						
10	16QAM	1	25	17.43	17.35	17.33								
10	16QAM	25	0	17.35	17.42	17.29								
10	16QAM	25	0	17.29	17.31	17.24								
10	16QAM	25	12	17.30	17.27	17.24	18.5	0						
10	16QAM	25	25	17.24	17.37	17.13								
10	16QAM	50	0	17.33	17.38	17.31								
10	16QAM	1	0	17.46	17.39	17.28								
10	16QAM	1	49	17.50	17.34	17.30	18.5	0						
10	16QAM	25	0	17.26	17.43	17.24								
10	16QAM	25	12	17.30	17.33	17.15								
10	16QAM	25	25	17.16	17.32	17.24								
10	16QAM	50	0	17.35	17.37	17.26	18.5	0						
10	16QAM	1	49	17.41	17.41	17.41								
10	16QAM	25	0	17.26	17.33	17.20								
10	16QAM	25	49	17.40	17.41	17.40								
10	256QAM	1	25	17.46	17.33	17.20	18.5	0						
10	256QAM	1	49	17.40	17.41	17.40								
10	256QAM	25	0	17.30	17.41	17.25								
10	256QAM	25	12	17.21	17.18	17.17								
10	256QAM	50	0	17.30	17.40	17.28	18.5	0						
10	256QAM	50	0	17.24	17.39	17.28								
10	256QAM	50	12	17.21	17.18	17.17								
10	256QAM	50	25	17.24	17.29	17.28								
Channel														
Frequency (MHz)														
5	QPSK	1	0	17.48	17.44	17.43	18.5	0						
5	QPSK	1	12	17.50	17.40	17.38								
5	QPSK	1	24	17.31	17.41	17.34								
5	QPSK	1	36	17.42	17.50	17.36								
5	QPSK	12	7	17.38	17.28	17.27	18.5	0						
5	QPSK	12	13	17.28	17.44	17.28								
5	QPSK	12	19	17.42	17.43	17.38								
5	QPSK	12	25	17.38	17.38	17.30								
5	16QAM	1	0	17.38	17.38	17.40	18.5	0						
5	16QAM	1	12	17.43	17.37	17.36								
5	16QAM	12	7	17.34	17.34	17.28								
5	16QAM	12	0	17.39	17.35	17.20								
5	16QAM	12	13	17.28	17.33	17.15	18.5	0						
5	16QAM	25	0	17.32	17.43	17.32								
5	16QAM	25	12	17.40	17.43	17.32								
5	16QAM	25	19	17.24	17.39	17.25								
5	16QAM	12	7	17.28	17.27	17.22	18.5	0						
5	16QAM	12	13	17.12										

Band 38 other PA Ant 2 DSI 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				37650	38000	38150					
Frequency (MHz)				2580	2595	2610					
20	QPSK	1	0	22.25	22.30	22.23	23	0			
20	QPSK	1	49	22.16	22.16	22.18					
20	QPSK	1	99	22.12	22.17	22.16	23	0			
20	QPSK	50	0	22.18	22.24	22.12					
20	QPSK	50	24	22.16	22.22	22.09	23	0			
20	QPSK	50	50	22.16	22.19	22.13					
20	QPSK	100	0	22.22	22.21	22.10	23	0			
20	16QAM	1	0	22.13	22.17	22.16					
20	16QAM	1	49	22.15	22.20	22.17	23	0			
20	16QAM	1	99	22.07	22.15	22.12					
20	16QAM	50	0	21.15	21.20	21.11	22	1			
20	16QAM	50	24	21.15	21.19	21.04					
20	16QAM	50	50	21.21	21.13	21.13	22	1			
20	16QAM	100	0	21.19	21.23	21.13					
20	64QAM	1	0	21.13	21.20	21.17	22	1			
20	64QAM	1	49	21.11	21.22	21.11					
20	64QAM	1	99	21.08	21.17	21.07	21	2			
20	64QAM	50	0	20.19	20.26	20.15					
20	64QAM	50	24	20.18	20.20	20.09	19	4			
20	64QAM	50	50	20.18	20.14	20.17					
20	64QAM	100	0	20.24	20.15	20.06	19	4			
20	256QAM	1	0	18.23	18.22	18.15					
20	256QAM	1	49	18.15	18.21	18.06	19	4			
20	256QAM	1	99	18.16	18.25	18.11					
20	256QAM	50	0	18.26	18.26	18.14	19	4			
20	256QAM	50	24	18.15	18.19	18.21					
20	256QAM	50	50	18.21	18.18	18.17	20	2			
20	256QAM	100	0	18.03	18.20	18.06					
Channel				37625	38000	38175					
Frequency (MHz)				2577.5	2592.5	2612.5					
15	QPSK	1	0	22.14	22.21	22.12	23	0			
15	QPSK	1	37	22.11	22.06	22.09					
15	QPSK	1	74	22.09	22.06	22.13	23	0			
15	QPSK	36	0	22.08	22.11	22.02					
15	QPSK	36	20	22.07	22.19	22.03	23	0			
15	QPSK	36	39	22.02	22.07	22.10					
15	QPSK	75	0	22.12	22.17	22.06	23	0			
15	16QAM	1	0	22.01	22.06	22.04					
15	16QAM	1	37	22.07	22.08	22.05	23	0			
15	16QAM	1	74	22.03	22.07	22.06					
15	16QAM	36	0	21.07	21.08	21.03	22	1			
15	16QAM	36	20	21.11	21.10	20.92					
15	16QAM	36	39	21.12	20.99	21.10	22	1			
15	16QAM	75	0	21.14	21.10	21.07					
15	64QAM	1	0	21.07	21.18	21.09	22	1			
15	64QAM	1	37	21.03	21.17	21.05					
15	64QAM	1	74	21.00	21.09	20.95	21	2			
15	64QAM	36	0	20.10	20.19	20.02					
15	64QAM	36	20	20.10	20.18	20.03	19	4			
15	64QAM	36	39	20.12	20.07	20.08					
15	64QAM	75	0	20.10	20.01	20.00	19	4			
15	256QAM	1	0	18.14	18.09	18.04					
15	256QAM	1	37	18.10	18.09	17.95	19	4			
15	256QAM	1	74	18.03	18.17	18.07					
15	256QAM	36	0	18.21	18.12	18.04	19	4			
15	256QAM	36	20	18.05	18.06	18.09					
15	256QAM	36	39	18.11	18.12	18.13	20	2			
15	256QAM	75	0	17.94	18.14	17.99					
Channel				37600	38000	38200					
Frequency (MHz)				2575	2595	2615					
10	QPSK	1	0	22.22	22.24	22.18	23	0			
10	QPSK	1	25	22.09	22.09	22.12					
10	QPSK	1	49	22.10	22.13	22.08	23	0			
10	QPSK	25	0	22.11	22.12	22.00					
10	QPSK	25	12	22.02	22.17	22.01	23	0			
10	QPSK	25	25	22.06	22.15	22.05					
10	QPSK	50	0	22.09	22.14	21.99	23	0			
10	16QAM	1	0	22.04	22.12	22.04					
10	16QAM	1	25	22.11	22.16	22.06	23	0			
10	16QAM	1	49	22.03	22.09	22.04					
10	16QAM	25	0	21.09	21.10	21.04	22	1			
10	16QAM	25	12	21.10	21.10	20.97					
10	16QAM	25	25	21.09	21.06	21.07	22	1			
10	16QAM	50	0	21.15	21.10	21.07					
10	64QAM	1	0	21.03	21.13	21.14	22	1			
10	64QAM	1	25	21.03	21.16	20.98					
10	64QAM	1	49	21.04	21.06	21.00	21	2			
10	64QAM	25	0	20.12	20.19	20.13					
10	64QAM	25	12	20.12	20.14	19.98	19	4			
10	64QAM	25	25	20.15	20.02	20.05					
10	64QAM	50	0	20.15	20.06	20.00	19	4			
10	256QAM	1	0	18.10	18.08	18.09					
10	256QAM	1	25	18.10	18.12	17.96	19	4			
10	256QAM	1	49	18.09	18.18	18.03					
10	256QAM	25	0	18.16	18.14	18.02	19	4			
10	256QAM	25	12	18.04	18.14	18.19					
10	256QAM	25	25	18.19	18.06	18.03	20	2			
10	256QAM	50	0	17.99	18.17	18.00					
Channel				37775	38000	38225					
Frequency (MHz)				2592.5	2595	2617.5					
5	QPSK	1	0	22.16	22.19	22.16	23	0			
5	QPSK	1	12	22.09	22.06	22.06					
5	QPSK	1	24	22.07	22.15	22.09	23	0			
5	QPSK	12	0	22.14	22.20	22.05					
5	QPSK	12	7	22.05	22.12	22.04	23	0			
5	QPSK	12	13	22.11	22.16	22.09					
5	QPSK	25	0	22.10	22.13	22.01	23	0			
5	16QAM	1	0	22.03	22.15	22.05					
5	16QAM	1	12	22.08	22.17	22.07	23	0			
5	16QAM	1	24	21.97	22.10	22.00					
5	16QAM	12	0	21.12	21.13	21.00	22	1			
5	16QAM	12	7	21.09	21.13	21.00					
5	16QAM	12	13	21.09	21.01	21.03	22	1			
5	16QAM	25	0	21.08	21.18	21.09					
5	64QAM	1	0	21.08	21.10	21.13	22	1			
5	64QAM	1	12	21.03	21.11	20.98					
5	64QAM	1	24	20.97	21.09	21.04	21	2			
5	64QAM	12	0	20.06	20.15	20.07					
5	64QAM	12	7	20.14	20.07	19.97	19	4			
5	64QAM	12	13	20.11	20.10	20.04					
5	64QAM	25	0	20.15	20.12	19.99	19	4			
5	256QAM	1	0	18.15	18.16	18.10					
5	256QAM	1	12	18.10	18.16	17.97	19	4			
5	256QAM	1	24	18.13	18.18	18.06					
5	256QAM	12	0	18.16	18.20	18.06	19	4			
5	256QAM	12	7	18.06	18.09	18.10					
5	256QAM	12	13	18.14	18.04	18.12	20	2			
5	256QAM	25	0	17.93	18.13	17.97					

Band 41 other PA Ant 2 DSI 1									
BW [MHz]	Modulation	RB Size	RB						

Reduced Power Mode for DS11_ENDC

Band 2 other PA Ant 2 DSI 1 for ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (dBm)	Power Mid Ch. (dBm)	Power High Ch. (dBm)	Turn-up Limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20	QPSK	1	0	14.54	14.57	14.52				
20	QPSK	1	49	14.63	14.55	14.50	15.5	0		
20	QPSK	1	99	14.64	14.51	14.41				
20	QPSK	50	24	14.64	14.42	14.33	15.5	0		
20	QPSK	50	50	14.56	14.50	14.32				
20	QPSK	100	0	14.46	14.52	14.40				
20	QPSK	1	0	14.49	14.39	14.37				
20	QPSK	1	49	14.46	14.43	14.40	15.5	0		
20	QPSK	50	0	14.39	14.38	14.33				
20	QPSK	50	24	14.35	14.27	14.20	15.5	0		
20	QPSK	50	50	14.33	14.44	14.22				
20	QPSK	100	0	14.36	14.43	14.31				
20	QPSK	1	0	14.29	14.42	14.36				
20	QPSK	1	49	14.47	14.46	14.36	15.5	0		
20	QPSK	50	0	14.36	14.50	14.28				
20	QPSK	50	24	14.30	14.31	14.24	15.5	0		
20	QPSK	100	0	14.46	14.45	14.34				
20	QPSK	1	0	14.43	14.43	14.33				
20	QPSK	1	49	14.47	14.42	14.44	15.5	0		
20	QPSK	50	0	14.40	14.45	14.34				
20	QPSK	50	24	14.34	14.41	14.32	15.5	0		
20	QPSK	50	50	14.31	14.48	14.35				
20	QPSK	100	0	14.31	14.48	14.35				
Channel										
Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
15	QPSK	1	0	14.50	14.52	14.46				
15	QPSK	1	37	14.50	14.53	14.47	15.5	0		
15	QPSK	1	74	14.50	14.40	14.31				
15	QPSK	36	0	14.38	14.39	14.34	15.5	0		
15	QPSK	36	20	14.34	14.38	14.29				
15	QPSK	36	39	14.32	14.40	14.30				
15	QPSK	36	58	14.33	14.41	14.37				
15	QPSK	1	0	14.38	14.29	14.34	15.5	0		
15	QPSK	1	37	14.38	14.35	14.32				
15	QPSK	1	74	14.38	14.35	14.22				
15	QPSK	36	0	14.52	14.33	14.30	15.5	0		
15	QPSK	36	20	14.30	14.32	14.29				
15	QPSK	36	39	14.22	14.43	14.13	15.5	0		
15	QPSK	36	58	14.20	14.32	14.30				
15	QPSK	1	0	14.40	14.34	14.29	15.5	0		
15	QPSK	1	37	14.40	14.34	14.25				
15	QPSK	1	74	14.34	14.42	14.23				
15	QPSK	36	0	14.40	14.36	14.30	15.5	0		
15	QPSK	36	20	14.10	14.20	14.13				
15	QPSK	36	39	14.13	14.38	14.30				
15	QPSK	36	58	14.14	14.41	14.31				
15	QPSK	1	0	14.54	14.37	14.42	15.5	0		
15	QPSK	1	37	14.39	14.36	14.41				
15	QPSK	1	74	14.39	14.41	14.25				
15	QPSK	36	0	14.32	14.27	14.27	15.5	0		
15	QPSK	36	20	14.35	14.36	14.30				
15	QPSK	36	39	14.20	14.45	14.28				
15	QPSK	36	58	14.20	14.45	14.28				
Channel										
Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
10	QPSK	1	0	14.48	14.50	14.47				
10	QPSK	1	25	14.48	14.44	14.44	15.5	0		
10	QPSK	1	50	14.48	14.44	14.38				
10	QPSK	25	0	14.38	14.49	14.38	15.5	0		
10	QPSK	25	12	14.41	14.34	14.25				
10	QPSK	25	37	14.42	14.40	14.32				
10	QPSK	50	0	14.39	14.40	14.32	15.5	0		
10	QPSK	1	0	14.36	14.33	14.27				
10	QPSK	1	25	14.36	14.36	14.28	15.5	0		
10	QPSK	1	49	14.34	14.38	14.18				
10	QPSK	25	0	14.27	14.36	14.17	15.5	0		
10	QPSK	25	12	14.27	14.38	14.17				
10	QPSK	25	37	14.44	14.36	14.25				
10	QPSK	50	0	14.39	14.40	14.32	15.5	0		
10	QPSK	1	0	14.39	14.33	14.27				
10	QPSK	1	25	14.39	14.36	14.28	15.5	0		
10	QPSK	1	49	14.34	14.38	14.18				
10	QPSK	25	0	14.27	14.38	14.17	15.5	0		
10	QPSK	25	12	14.27	14.38	14.17				
10	QPSK	25	37	14.44	14.36	14.25				
10	QPSK	50	0	14.39	14.40	14.32	15.5	0		
10	QPSK	1	0	14.39	14.33	14.27				
10	QPSK	1	25	14.39	14.36	14.28	15.5	0		
10	QPSK	1	49	14.34	14.38	14.18				
10	QPSK	25	0	14.27	14.38	14.17	15.5	0		
10	QPSK	25	12	14.27	14.38	14.17				
10	QPSK	25	37	14.44	14.36	14.25				
10	QPSK	50	0	14.39	14.40	14.32	15.5	0		
10	QPSK	1	0	14.39	14.33	14.27				
10	QPSK	1	25	14.39	14.36	14.28	15.5	0		
10	QPSK	1	49	14.34	14.38	14.18				
10	QPSK	25	0	14.27	14.38	14.17	15.5	0		
10	QPSK	25	12	14.27	14.38	14.17				
10	QPSK	25	37	14.44	14.36	14.25				
10	QPSK	50	0	14.39	14.40	14.32	15.5	0		
10	QPSK	1	0	14.39	14.33	14.27				
10	QPSK	1	25	14.39	14.36	14.28	15.5	0		
10	QPSK	1	49	14.34	14.38	14.18				
10	QPSK	25	0	14.27	14.38	14.17	15.5	0		
10	QPSK	25	12	14.27	14.38	14.17				
10	QPSK	25	37	14.44	14.36	14.25				
10	QPSK	50	0	14.39	14.40	14.32	15.5	0		
10	QPSK	1	0	14.39	14.33	14.27				
10	QPSK	1	25	14.39	14.36	14.28	15.5	0		
10	QPSK	1	49	14.34	14.38	14.18				
10	QPSK	25	0	14.27	14.38	14.17	15.5	0		
10	QPSK	25	12	14.27	14.38	14.17				
10	QPSK	25	37	14.44	14.36	14.25				
10	QPSK	50	0	14.39	14.40	14.32	15.5	0		
10	QPSK	1	0	14.39	14.33	14.27				
10	QPSK	1	25	14.39	14.36	14.28	15.5	0		
10	QPSK	1	49	14.34	14.38	14.18				
10	QPSK	25	0	14.27	14.38	14.17	15.5	0		
10	QPSK	25	12	14.27	14.38	14.17				
10	QPSK	25	37	14.44	14.36	14.25				
10	QPSK	50	0	14.39	14.40	14.32	15.5	0		
10	QPSK	1	0	14.39	14.33	14.27				
10	QPSK	1	25	14.39	14.36	14.28	15.5	0		
10	QPSK	1	49	14.34	14.38	14.18				
10	QPSK	25	0	14.27	14.38	14.17	15.5	0		
10	QPSK	25	12	14.27	14.38	14.17				
10	QPSK	25	37	14.44	14.36	14.25				
10	QPSK	50	0	14.39	14.40	14.32	15.5	0		
10	QPSK	1	0	14.39	14.33	14.27				
10	QPSK	1	25	14.39	14.36	14.28	15.5	0		
10	QPSK	1	49	14.34	14.38	14.18				
10	QPSK	25	0	14.27	14.38	14.17	15.5	0		
10	QPSK	25	12	14.27	14.38	14.17				
10	QPSK	25	37	14.44	14.36	14.25				
10	QPSK	50	0	14.39	14.40	14.32	15.5	0		
10	QPSK	1	0	14.39	14.33	14.27				
10	QPSK	1	25	14.39	14.36	14.28	15.5	0		
10	QPSK	1	49	14.34	14.38	14.18				
10	QPSK	25	0	14.27	14.38	14.17	15.5	0		
10	QPSK	25	12	14.27	14.38	14.17				
10	QPSK	25	37	14.44	14.36	14.25				
10	QPSK	50	0	14.39	14.40	14.32	15.5	0		
10	QPSK	1	0	14.39	14.33	14.27				
10	QPSK	1	25	14.39	14.36	14.28	15.5	0		
10	QPSK	1	49	14.34	14.38	14.18				
10	QPSK	25	0	14.27	14.38	14.17	15.5	0		
10	QPSK	25	12	14.27	14.38	14.17				
10	QPSK	25	37	14.44	14.36	14.25				
10	QPSK	50	0	14.39	14.40	14.32	15.5	0		
10	QPSK	1	0	14.39	14.33	14.27				
10	QPSK	1	25	14.39	14.36	14.28	15.5	0		
10	QPSK	1	49	14.34	14.38	14.18				
10	QPSK	25	0	14.27	14.38	14.17	15.5	0		
10	QPSK	25	12	14.27	14.38	14.17				
10	QPSK	25	37	14.44	14.36	14.25				
10	QPSK	50	0	14.39	14.40	14.32	15.5	0		
10	QPSK	1	0	14.39	14.33	14.27				
10	QPSK	1	25	14.39	14.36	14.2				

Band 38 other PA Ant 2 DSI 1 for ENDC										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38600	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	22.23	22.30	22.23				
20	QPSK	1	49	22.24	22.25	22.14	23	0		
20	QPSK	1	99	22.14	22.24	22.16				
20	QPSK	50	0	22.23	22.24	22.22				
20	QPSK	50	24	22.25	22.22	22.24	23	0		
20	QPSK	50	50	22.19	22.25	22.25				
20	QPSK	100	0	22.18	22.20	22.23				
20	16QAM	1	0	22.23	22.22	22.27				
20	16QAM	1	49	22.18	22.22	22.24	23	0		
20	16QAM	1	99	22.17	22.23	22.18				
20	16QAM	50	0	21.19	21.30	21.27				
20	16QAM	50	24	21.26	21.24	21.21	22	1		
20	16QAM	50	50	21.15	21.33	21.20				
20	16QAM	100	0	21.16	21.23	21.20				
20	64QAM	1	0	21.26	21.22	21.24				
20	64QAM	1	49	21.21	21.28	21.19	22	1		
20	64QAM	1	99	21.23	21.26	21.21				
20	64QAM	50	0	20.27	20.29	20.27				
20	64QAM	50	24	20.29	20.18	20.18	21	2		
20	64QAM	50	50	20.25	20.31	20.26				
20	64QAM	100	0	20.18	20.23	20.20				
20	256QAM	1	0	18.25	18.32	18.23				
20	256QAM	1	49	18.25	18.21	18.21	19	4		
20	256QAM	1	99	18.22	18.25	18.13				
20	256QAM	50	0	18.23	18.25	18.27				
20	256QAM	50	24	18.25	18.19	18.24	19	4		
20	256QAM	50	50	18.18	18.27	18.26				
20	256QAM	100	0	18.21	18.26	18.23				
Channel				37425	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	22.22	22.27	22.16				
15	QPSK	1	37	22.21	22.24	22.03	23	0		
15	QPSK	1	74	22.06	22.16	22.12				
15	QPSK	36	0	22.22	22.16	22.16				
15	QPSK	36	20	22.22	22.11	22.19	23	0		
15	QPSK	36	39	22.08	22.21	22.17				
15	QPSK	75	0	22.14	22.18	22.20				
15	16QAM	1	0	22.13	22.19	22.18				
15	16QAM	1	37	22.11	22.12	22.12	23	0		
15	16QAM	1	74	22.17	22.20	22.15				
15	16QAM	36	0	21.17	21.25	21.25				
15	16QAM	36	20	21.24	21.09	21.21	22	1		
15	16QAM	36	39	21.06	21.29	21.10				
15	16QAM	75	0	21.13	21.23	21.18				
15	64QAM	1	0	21.23	21.21	21.22				
15	64QAM	1	37	21.21	21.18	21.09	22	1		
15	64QAM	1	74	21.22	21.20	21.06				
15	64QAM	36	0	20.20	20.26	20.21				
15	64QAM	36	20	20.29	20.07	20.10	21	2		
15	64QAM	36	39	20.20	20.25	20.21				
15	64QAM	75	0	20.17	20.29	20.20				
15	256QAM	1	0	18.17	18.24	18.23				
15	256QAM	1	37	18.25	18.12	18.17	19	4		
15	256QAM	1	74	18.20	18.14	18.11				
15	256QAM	36	0	18.23	18.16	18.17				
15	256QAM	36	20	18.22	18.16	18.16				
15	256QAM	36	39	18.15	18.16	18.28	19	4		
15	256QAM	75	0	18.21	18.15	18.14				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	22.20	22.29	22.15				
10	QPSK	1	25	22.23	22.25	22.20	23	0		
10	QPSK	1	49	22.02	22.19	22.09				
10	QPSK	25	0	22.16	22.13	22.13				
10	QPSK	25	12	22.13	22.14	22.16	23	0		
10	QPSK	25	25	22.16	22.28	22.12				
10	QPSK	50	0	22.12	22.09	22.11				
10	16QAM	1	0	22.12	22.15	22.17	23	0		
10	16QAM	1	25	22.12	22.19	22.12				
10	16QAM	1	49	22.10	22.16	22.12				
10	16QAM	25	0	21.10	21.14	21.10	22	1		
10	16QAM	25	12	21.15	21.15	21.25				
10	16QAM	25	25	21.10	21.27	21.15	22	1		
10	16QAM	50	0	21.06	21.14	21.12				
10	64QAM	1	0	21.21	21.20	21.13				
10	64QAM	1	25	21.14	21.16	21.19	22	1		
10	64QAM	1	49	21.14	21.21	21.14				
10	64QAM	25	0	20.20	20.26	20.20				
10	64QAM	25	12	20.23	20.11	20.10				
10	64QAM	25	25	20.19	20.20	20.15	21	2		
10	64QAM	50	0	20.11	20.22	20.15				
10	256QAM	1	0	18.20	18.24	18.18				
10	256QAM	1	25	18.25	18.15	18.19	19	4		
10	256QAM	1	49	18.15	18.20	18.20				
10	256QAM	25	0	18.16	18.20	18.20				
10	256QAM	25	12	18.18	18.11	18.15	19	4		
10	256QAM	25	25	18.11	18.16	18.14				
10	256QAM	50	0	18.16	18.24	18.16				
Channel				37775	38000	38255	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	22.20	22.29	22.19				
5	QPSK	1	12	22.24	22.23	22.07	23	0		
5	QPSK	1	24	22.07	22.18	22.12				
5	QPSK	12	0	22.21	22.14	22.19				
5	QPSK	12	7	22.25	22.22	22.25	23	0		
5	QPSK	12	13	22.05	22.28	22.17				
5	QPSK	25	0	22.11	22.16	22.17				
5	16QAM	1	0	22.17	22.15	22.27				
5	16QAM	1	12	22.09	22.21	22.10	23	0		
5	16QAM	1	24	22.16	22.22	22.14				
5	16QAM	12	0	21.16	21.18	21.07				
5	16QAM	12	7	21.20	21.16	21.24	22	1		
5	16QAM	12	13	21.12	21.27	21.18				
5	16QAM	25	0	21.14	21.12	21.20				
5	64QAM	1	0	21.23	21.17	21.15				
5	64QAM	1	13	21.13	21.25	21.18	22	1		
5	64QAM	1	24	21.20	21.22	21.05				
5	64QAM	12	0	20.25	20.23	20.26				
5	64QAM	12	7	20.20	20.10	20.07	21	2		
5	64QAM	12	13	20.18	20.21	20.21				
5	64QAM	25	0	20.12	20.14	20.19				
5	256QAM	1	0	18.14	18.21	18.18	19	4		
5	256QAM	1	12	18.23	18.16	18.17				
5	256QAM	1	24	18.14	18.15	18.09				
5	256QAM	12	0	18.16	18.14	18.21				
5	256QAM	12	7	18.15	18.13	18.13	19	4		
5	256QAM	12	13	18.07	18.17	18.23				
5	256QAM	25	0	18.20	18.15	18.15				

Band 41 other PA Ant 2 DSI 1 for ENDC												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Low Middle Ch./ Freq.	Power Middle Ch./ Freq.	Power High Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40186	40620	41055	41490				
Frequency (MHz)				2503	25463	25893	26325	26755				
20	QPSK	1	0	22.68	22.73	22.70	22.72	22.76	23.50	0		
20	QPSK	1	49	22.70	22.76	22.77	22.72	22.72	22.63			
20	QPSK	1	99	22.69	22.72	22.74	22.69	22.67				
20	QPSK	50	0	22.16	22.32	22.31	22.26	22.24				
20	QPSK	50	24	22.19	22.28	22.30	22.34	22.20				
20	QPSK	50	50	22.21	22.29	22.29	22.21	22.18				
20	QPSK	100	0	22.15	22.22	22.26	22.25	22.12				
20	16QAM	1	0	22.26	22.33	22.28	22.30	22.28				
20	16QAM	1	49	22.30	22.22	22.33	22.17	22.28				
20	16QAM	1	99	22.15	22.30	22.28	22.31	22.15				
20	16QAM	50	0	21.16	21.34	21.28	21.21	21.22				
20	16QAM	50	24	21.22	21.30	21.25	21.30	21.24				
20	16QAM	50	50	20.19	21.35	21.24	21.27	21.18				
20	16QAM	100	0	21.17	21.23	21.24	21.20	21.16				
20	64QAM	1	0	21.25	21.28	21.30	21.32	21.20				
20	64QAM	1	49	21.30	21.32	21.30	21.24	21.24				
20	64QAM	1	99	21.25	21.24	21.25	21.19	21.21				
20	64QAM	50	0	20.12	20.32	20.37	20.21	20.27				
20	64QAM	50	24	20.22	20.26	20.25	20.35	20.21				
20	64QAM	50	50	20.24	20.25	20.24	20.17	20.12				
20	64QAM	100	0	20.19	20.24	20.29	20.31	20.17				
20	256QAM	1	0	18.18	18.27	18.27	18.32	18.22				
20	256QAM	1	49	18.23	18.21	18.33	18.26	18.19				
20	256QAM	1	99	18.20	18.30	18.24	18.29	18.13				
20	256QAM	50	0	18.17	18.33	18.30	18.26	18.19				
20	256QAM	50	24	18.14	18.26	18.35	18.35	18.26				
20	256QAM	50	50	18.19	18.29	18.31	18.21	18.17				
20	256QAM	100	0	18.18	18.24	18.26	18.26	18.14				
Channel				39725	40173	40603	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				25035	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	22.61	22.70	22.67	22.71	22.72				
15	QPSK	1	37	22.60	22.71	22.72	22.60	22.63				
15	QPSK	1	74	22.62	22.64	22.63	22.60	22.60				
15	QPSK	36	0	22.11	22.32	22.25	22.28	22.17				
15	QPSK	36	20	22.09	22.21	22.23	22.28	22.12				
15	QPSK	36	39	22.16	22.20	22.23	22.11	22.05				
15	QPSK	75	0	22.10	22.14	22.21	22.16	22.02				
15	16QAM	1	0	22.18	22.24	22.26	22.29	22.18				
15	16QAM	1	37	22.26	22.19	22.29	22.14	22.16				
15	16QAM	1	74	22.27	22.29	22.28	22.22	22.12				
15	16QAM	36	0	21.15	21.24	21.22	21.09	21.18				
15	16QAM	36	20	21.14	21.19	21.14	21.19	21.15				
15	16QAM	36	39	21.11	21.32	21.13	21.23	21.15				
15	16QAM	75	0	21.15	21.19	21.17	21.11	21.04				
15	64QAM	1	0	21.24	21.27	21.21	21.26	21.12				
15	64QAM	1	37	21.28	21.26	21.27	21.13	21.22				
15	64QAM	1	74	21.15	21.23	21.32	21.14	21.07				
15	64QAM	36	0	20.10	20.22	20.36	20.12	20.24				
15	64QAM	36	20	20.16	20.16	20.16	20.32	20.19				
15	64QAM	36	39	20.13	20.18	20.13	20.16	20.12				
15	64QAM	75	0	20.17	20.15	20.20	20.28	20.17				
15	256QAM	1	0	18.17	18.24	18.24	18.32	18.21				
15	256QAM	1	37	18.22	18.19	18.22	18.26	18.16				
15	256QAM	1	74	18.11	18.26	18.21	18.20	18.05				
15	256QAM	36	0	18.08	18.27	18.29	18.15	18.12				
15	256QAM	36	20	18.13	18.30	18.33	18.18	18.12				
15	256QAM	36	39	18.11	18.20	18.25	18.17	18.12				
15	256QAM	75	0	18.18	18.23	18.16	18.18	18.09				
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	22.57	22.64	22.64	22.75	22.68				
10	QPSK	1	25	22.65	22.61	22.65	22.46	22.64				
10	QPSK	1	49	22.60	22.69	22.62	22.64	22.59				
10	QPSK	25	0	22.15	22.30	22.20	22.15	22.12				
10	QPSK	25	12	22.17	22.18	22.29	22.32	22.10				
10	QPSK	25	25	22.26	22.18	22.19	22.20	22.04				
10	QPSK	50	0	22.08	22.12	22.21	22.15	22.02				
10	16QAM	1	0	22.16	22.27	22.22	22.22	22.27				
10	16QAM	1	25	22.21	22.15	22.28	22.06	22.17				
10	16QAM	1	49	22.11	22.19	22.21	22.23	22.04				
10	16QAM	25	0	21.10	21.29	21.23	21.19	21.10				
10	16QAM	25	12	21.18	21.23	21.22	21.22	21.18				
10	16QAM	25	25	21.18	21.29	21.18	21.21	21.12				
10	16QAM	50	0	21.12	21.18	21.21	21.08	21.06				
10	64QAM	1	0	21.18	21.24	21.20	21.30	21.12				
10	64QAM	1	25	21.27	21.22	21.26	21.12	21.22				
10	64QAM	1	49	21.16	21.12	21.24	21.07	20.99				
10	64QAM	25	0	20.03	20.23	20.26	20.19	20.19				
10	64QAM	25	12	20.16	20.18	20.20	20.24	20.18				
10	64QAM	25	25	20.22	20.22	20.22	20.07	20.03				
10	64QAM	50	0	20.15	20.14	20.24	20.23	20.10				
10	256QAM	1	0	18.08	18.21	18.26	18.32	18.12				
10	256QAM	1	25	18.12	18.10	18.16	18.22	18.09				
10	256QAM	1	49	18.16	18.19	18.13	18.29	18.03				
10	256QAM	25	0	18.14	18.24	18.22	18.22	18.19				
10	256QAM	25	12	18.11	18.24	18.34	18.30	18.22				
10	256QAM	25	25	18.09	18.18	18.23	18.15	18.12				
10	256QAM	50	0	18.14	18.16	18.23	18.16	18.05				
Channel				39675	40146	40620	41056	41565	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2498.5	25451	2590	26363	2687.5				
5	QPSK	1	0	22.64	22.71	22.77	22.73	22.68				
5	QPSK	1	12	22.63	22.65	22.72	22.68	22.57				
5	QPSK	1	24	22.63	22.68	22.63	22.62	22.61				
5	QPSK	12	0	22.12	22.22	22.25	22.17	22.13				
5	QPSK	12	6	22.10	22.25	22.21	22.28	22.12				
5	QPSK	12	13	22.13	22.20	22.19	22.11	22.05				
5	QPSK	25	0	22.09	22.22	22.22	22.24	22.03				
5	16QAM	1	0	22.21	22.26	22.27	22.26	22.16				
5	16QAM	1	12	22.29	22.21	22.31	22.11	22.13				
5	16QAM	1	24	22.13	22.28	22.26	22.22	22.08				
5	16QAM	12	0	21.15	21.30	21.22	21.14	21.14				
5	16QAM	12	7	21.18	21.20	21.17	21.19	21.20				
5	16QAM	12	13	21.12	21.34	21.15	21.22	21.08				
5	16QAM	25	0	21.15	21.17	21.14	21.14	21.10				
5	64QAM	1	0	21.17	21.24	21.23	21.29	21.14				
5	64QAM	1	12	21.19	21.27	21.22	21.21	21.16				
5	64QAM	1	24	21.16	21.20	21.28	21.17	21.00				
5	64QAM	12	0	20.06	20.30	20.37	20.16	20.25				
5	64QAM	12	7	20.16	20.26	20.24	20.25	20.13				
5	64QAM	12	13	20.22	20.22	20.20	20.06	20.05				
5	64QAM	25	0	20.16	20.12	20.29	20.29	20.16				
5	256QAM	1	0	18.16	18.16	18.26	18.26	18.16				
5	256QAM	1	12	18.22	18.19	18.18	18.17	18.09				
5	256QAM	1	24	18.08	18.28	18.17	18.24	18.11				
5	256QAM	12	0	18.14	18.23	18.21	18.22	18.07				
5	256QAM	12	7	18.12	18.23	18.24	18.30	18.19				
5	256QAM	12	13	18.16	18.19	18.22	18.12	18.09				
5	256QAM	25	0	18.15	18.15	18.26	18.16	18.08				

Band 38 other PA Ant 2 DSI 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37650	38000	38150	24	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.21	23.28	23.22	23	1	
20	QPSK	1	49	23.20	23.26	23.19			
20	QPSK	1	99	23.20	23.26	23.18	23	1	
20	QPSK	50	0	22.23	22.24	22.22			
20	QPSK	50	24	22.25	22.22	22.24	22	2	
20	QPSK	50	50	22.19	22.30	22.21			
20	QPSK	100	0	22.18	22.20	22.23	23	1	
20	16QAM	1	0	22.23	22.22	22.27			
20	16QAM	1	49	22.18	22.22	22.24	22	2	
20	16QAM	1	99	22.17	22.23	22.18			
20	16QAM	50	0	21.19	21.30	21.27	21	3	
20	16QAM	50	24	21.26	21.21	21.28			
20	16QAM	50	50	21.15	21.33	21.20	22	2	
20	16QAM	100	0	21.16	21.23	21.20			
20	64QAM	1	0	21.26	21.22	21.24	21	3	
20	64QAM	1	49	21.21	21.28	21.19			
20	64QAM	1	99	21.23	21.22	21.15	19	5	
20	64QAM	50	0	20.27	20.29	20.27			
20	64QAM	50	24	20.29	20.18	20.18	21	3	
20	64QAM	50	50	20.25	20.31	20.26			
20	64QAM	100	0	20.18	20.23	20.20	19	5	
20	256QAM	1	0	18.25	18.32	18.23			
20	256QAM	1	49	18.25	18.21	18.21	19	5	
20	256QAM	1	99	18.22	18.25	18.13			
20	256QAM	50	0	18.23	18.25	18.27	19	5	
20	256QAM	50	24	18.25	18.19	18.24			
20	256QAM	50	50	18.18	18.27	18.26	20	2	
20	256QAM	100	0	18.21	18.26	18.24			
Channel				37625	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25775	2595	2612.5			
15	QPSK	1	0	23.19	23.24	23.17	24	0	
15	QPSK	1	37	23.19	23.23	23.14			
15	QPSK	1	74	23.19	23.25	23.17	23	1	
15	QPSK	36	0	22.22	22.20	22.22			
15	QPSK	36	20	22.22	22.11	22.19	23	1	
15	QPSK	36	39	22.08	22.21	22.17			
15	QPSK	75	0	22.14	22.18	22.20	23	1	
15	16QAM	1	0	22.13	22.19	22.18			
15	16QAM	1	37	22.11	22.12	22.14	23	1	
15	16QAM	1	74	22.17	22.20	22.16			
15	16QAM	36	0	21.17	21.25	21.25	22	2	
15	16QAM	36	20	21.24	21.09	21.21			
15	16QAM	36	39	21.06	21.29	21.10	22	2	
15	16QAM	75	0	21.13	21.23	21.18			
15	64QAM	1	0	21.23	21.22	21.19	22	2	
15	64QAM	1	37	21.21	21.18	21.09			
15	64QAM	1	74	21.22	21.20	21.06	21	3	
15	64QAM	36	0	20.20	20.26	20.21			
15	64QAM	36	20	20.29	20.07	20.10	21	3	
15	64QAM	36	39	20.14	20.25	20.21			
15	64QAM	75	0	20.17	20.20	20.20	19	5	
15	256QAM	1	0	18.17	18.24	18.23			
15	256QAM	1	37	18.25	18.12	18.17	19	5	
15	256QAM	1	74	18.20	18.14	18.11			
15	256QAM	36	0	18.23	18.16	18.17	19	5	
15	256QAM	36	20	18.22	18.16	18.24			
15	256QAM	36	39	18.16	18.16	18.26	20	2	
15	256QAM	75	0	18.21	18.15	18.14			
Channel				37600	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.13	23.23	23.16	24	0	
10	QPSK	1	25	23.18	23.15	23.08			
10	QPSK	1	49	23.20	23.15	23.14	23	1	
10	QPSK	25	0	22.16	22.13	22.13			
10	QPSK	25	12	22.13	22.14	22.16	23	1	
10	QPSK	25	25	22.16	22.28	22.12			
10	QPSK	50	0	22.12	22.09	22.11	23	1	
10	16QAM	1	0	22.12	22.15	22.22			
10	16QAM	1	25	22.12	22.19	22.17	23	1	
10	16QAM	1	49	22.10	22.16	22.12			
10	16QAM	25	0	21.10	21.24	21.26	22	2	
10	16QAM	25	12	21.15	21.15	21.25			
10	16QAM	25	25	21.10	21.27	21.18	22	2	
10	16QAM	50	0	21.06	21.14	21.12			
10	64QAM	1	0	21.21	21.20	21.13	22	2	
10	64QAM	1	25	21.14	21.16	21.19			
10	64QAM	1	49	21.14	21.21	21.14	19	5	
10	64QAM	25	0	20.20	20.26	20.20			
10	64QAM	25	12	20.23	20.11	20.10	21	3	
10	64QAM	25	25	20.19	20.20	20.15			
10	64QAM	50	0	20.11	20.22	20.15	19	5	
10	256QAM	1	0	18.20	18.24	18.18			
10	256QAM	1	25	18.26	18.15	18.19	19	5	
10	256QAM	1	49	18.15	18.20	18.02			
10	256QAM	25	0	18.16	18.20	18.20	19	5	
10	256QAM	25	12	18.16	18.11	18.15			
10	256QAM	25	25	18.11	18.16	18.14	22	2	
10	256QAM	50	0	18.16	18.24	18.16			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2596	2617.5			
5	QPSK	1	0	23.12	23.26	23.16	24	0	
5	QPSK	1	12	23.12	23.25	23.08			
5	QPSK	1	24	23.12	23.22	23.16	23	1	
5	QPSK	12	0	22.21	22.14	22.19			
5	QPSK	12	7	22.24	22.15	22.22	23	1	
5	QPSK	12	13	22.09	22.28	22.17			
5	QPSK	25	0	22.11	22.16	22.17	23	1	
5	16QAM	1	0	22.17	22.15	22.27			
5	16QAM	1	12	22.09	22.21	22.14	23	1	
5	16QAM	1	24	22.16	22.22	22.10			
5	16QAM	12	0	21.16	21.18	21.17	22	2	
5	16QAM	12	7	21.20	21.16	21.24			
5	16QAM	12	13	21.12	21.27	21.18	22	2	
5	16QAM	25	0	21.14	21.12	21.20			
5	64QAM	1	0	21.23	21.17	21.15	22	2	
5	64QAM	1	12	21.15	21.25	21.18			
5	64QAM	1	24	21.20	21.22	21.05	21	3	
5	64QAM	12	0	20.25	20.23	20.26			
5	64QAM	12	7	20.20	20.10	20.07	21	3	
5	64QAM	12	13	20.18	20.21	20.21			
5	64QAM	25	0	20.12	20.14	20.19	19	5	
5	256QAM	1	0	18.14	18.21	18.18			
5	256QAM	1	12	18.23	18.16	18.17	19	5	
5	256QAM	1	24	18.14	18.15	18.09			
5	256QAM	12	0	18.16	18.14	18.21	19	5	
5	256QAM	12	7	18.15	18.13	18.13			
5	256QAM	12	13	18.07	18.17	18.23	19	5	
5	256QAM	25	0	18.20	18.15	18.23			

Band 38 other PA Ant 2 DSI 4												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel				37850	38000	38150						
Frequency (MHz)				2580	2595	2610						
20	QPSK	1	0	20.25	20.30	20.27	21	0				
20	QPSK	1	49	20.16	20.16	20.14						
20	QPSK	1	99	20.19	20.22	20.20						
20	QPSK	50	0	20.18	20.24	20.22	21	0				
20	QPSK	50	24	20.19	20.21	20.14						
20	QPSK	50	50	20.13	20.17	20.20						
20	QPSK	100	0	20.21	20.21	20.18	21	0				
20	16QAM	1	0	20.22	20.17	20.15						
20	16QAM	1	49	20.03	20.14	20.06						
20	16QAM	1	99	20.14	20.12	20.11	21	0				
20	16QAM	50	0	20.06	20.15	20.11						
20	16QAM	50	24	20.05	20.10	20.05						
20	16QAM	50	50	20.09	20.14	20.18	21	0				
20	16QAM	100	0	20.10	20.18	20.12						
20	64QAM	1	0	20.19	20.20	20.23						
20	64QAM	1	49	20.14	20.11	20.04	21	0				
20	64QAM	1	99	20.16	20.11	20.14						
20	64QAM	50	0	20.14	20.19	20.15						
20	64QAM	50	24	20.15	20.08	20.03	21	0				
20	64QAM	50	50	20.04	20.14	20.11						
20	64QAM	100	0	20.11	20.13	20.12						
20	256QAM	1	0	18.26	18.25	18.30	19	2				
20	256QAM	1	49	18.10	18.21	18.15						
20	256QAM	1	99	18.14	18.25	18.18						
20	256QAM	50	0	18.21	18.22	18.17	19	2				
20	256QAM	50	24	18.20	18.24	18.19						
20	256QAM	50	50	18.11	18.15	18.20						
20	256QAM	100	0	18.19	18.15	18.21	21	0				
Channel				37825	38000	38175						
Frequency (MHz)				2577.5	2595	2612.5						
15	QPSK	1	0	20.17	20.21	20.14	21	0				
15	QPSK	1	37	20.03	20.13	20.03						
15	QPSK	1	74	20.09	20.17	20.15						
15	QPSK	36	0	20.07	20.16	20.19	21	0				
15	QPSK	36	20	20.12	20.18	20.10						
15	QPSK	36	39	20.09	20.12	20.07						
15	QPSK	75	0	20.17	20.12	20.10	21	0				
15	16QAM	1	0	20.17	20.14	20.09						
15	16QAM	1	37	19.99	20.03	20.04						
15	16QAM	1	74	20.11	20.01	20.01	21	0				
15	16QAM	36	0	19.92	20.03	19.99						
15	16QAM	36	20	19.95	20.01	19.97						
15	16QAM	36	39	20.04	20.03	20.05	21	0				
15	16QAM	75	0	20.05	20.09	20.06						
15	64QAM	1	0	20.16	20.09	20.09						
15	64QAM	1	37	20.11	20.08	19.96	21	0				
15	64QAM	1	74	20.13	20.02	20.01						
15	64QAM	36	0	20.03	20.09	20.03						
15	64QAM	36	20	20.02	20.02	19.93	21	0				
15	64QAM	36	39	19.94	20.12	20.00						
15	64QAM	75	0	20.01	20.01	20.09						
15	256QAM	1	0	18.17	18.18	18.19	19	2				
15	256QAM	1	37	17.98	18.11	18.03						
15	256QAM	1	74	18.09	18.17	18.14						
15	256QAM	36	0	18.13	18.12	18.05	19	2				
15	256QAM	36	20	18.08	18.12	18.05						
15	256QAM	36	39	18.08	18.05	18.10						
15	256QAM	75	0	18.08	18.01	18.14	21	0				
Channel				37900	38000	38200						
Frequency (MHz)				2575	2595	2615						
10	QPSK	1	0	20.20	20.22	20.18	21	0				
10	QPSK	1	25	20.08	20.13	20.05						
10	QPSK	1	49	20.13	20.14	20.13						
10	QPSK	25	0	20.12	20.16	20.13	21	0				
10	QPSK	25	12	20.06	20.14	20.05						
10	QPSK	25	25	20.01	20.15	20.12						
10	QPSK	50	0	20.11	20.11	20.09	21	0				
10	16QAM	1	0	20.11	20.11	20.13						
10	16QAM	1	25	19.90	20.05	19.98						
10	16QAM	1	49	20.07	20.03	20.06	21	0				
10	16QAM	25	0	20.03	20.10	20.08						
10	16QAM	25	12	19.95	19.99	20.02						
10	16QAM	25	25	20.03	20.02	20.11	21	0				
10	16QAM	50	0	19.96	20.09	20.02						
10	64QAM	1	0	20.12	20.13	20.13						
10	64QAM	1	25	20.03	19.98	19.99	21	0				
10	64QAM	1	49	20.09	20.08	20.05						
10	64QAM	25	0	20.04	20.16	20.10						
10	64QAM	25	12	20.07	20.01	19.93	21	0				
10	64QAM	25	25	19.90	20.02	20.06						
10	64QAM	50	0	19.99	20.09	19.99						
10	256QAM	1	0	18.16	18.14	18.18	19	2				
10	256QAM	1	25	18.04	18.14	18.09						
10	256QAM	1	49	18.04	18.12	18.07						
10	256QAM	25	0	18.16	18.08	18.05	19	2				
10	256QAM	25	12	18.09	18.20	18.14						
10	256QAM	25	25	18.04	18.06	18.09						
10	256QAM	50	0	18.05	18.07	18.16	21	0				
Channel				37775	38000	38225						
Frequency (MHz)				2572.5	2595	2617.5						
5	QPSK	1	0	20.18	20.22	20.15	21	0				
5	QPSK	1	12	20.13	20.05	20.09						
5	QPSK	1	24	20.14	20.12	20.18						
5	QPSK	12	0	20.05	20.19	20.14	21	0				
5	QPSK	12	7	20.12	20.07	20.06						
5	QPSK	12	13	20.08	20.07	20.07						
5	QPSK	25	0	20.19	20.11	20.16	21	0				
5	16QAM	1	0	20.19	20.14	20.10						
5	16QAM	1	12	19.94	20.01	19.97						
5	16QAM	1	24	20.04	20.01	20.08	21	0				
5	16QAM	12	0	19.98	20.11	20.06						
5	16QAM	12	7	19.95	20.07	20.00						
5	16QAM	12	13	20.01	20.11	20.09	21	0				
5	16QAM	25	0	20.04	20.04	20.07						
5	64QAM	1	0	20.13	20.17	20.21						
5	64QAM	1	12	20.08	20.07	19.93	21	0				
5	64QAM	1	24	20.10	20.08	20.02						
5	64QAM	12	0	20.02	20.07	20.01						
5	64QAM	12	7	20.11	20.02	19.90	21	0				
5	64QAM	12	13	19.97	20.01	20.03						
5	64QAM	25	0	20.01	20.08	20.03						
5	256QAM	1	0	18.14	18.23	18.17	19	2				
5	256QAM	1	12	17.99	18.15	18.06						
5	256QAM	1	24	18.02	18.16	18.07						
5	256QAM	12	0	18.17	18.18	18.06	19	2				
5	256QAM	12	7	18.12	18.16	18.10						
5	256QAM	12	13	18.08	18.04	18.09						
5	256QAM	25	0	18.11	18.01	18.16	19	2				

n2 Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	24.5	0.0
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	22.97	22.94	22.90		
20	PI2 BPSK	1	53	22.99	23.02	22.96	24.0	0.5
20	PI2 BPSK	1	104	22.79	22.97	22.81		
20	PI2 BPSK	50	0	22.51	22.58	22.45		
20	PI2 BPSK	50	28	22.99	23.02	22.94	24.0	0.5
20	PI2 BPSK	50	56	22.43	22.56	22.43		
20	PI2 BPSK	100	0	22.46	22.59	22.51		
20	QPSK	1	1	22.93	23.07	22.86	24.5	0.0
20	QPSK	1	53	22.99	23.01	22.94		
20	QPSK	1	104	22.79	22.88	22.84		
20	QPSK	50	0	21.96	22.08	22.03	23.5	1.0
20	QPSK	50	28	22.92	23.05	22.91		
20	QPSK	50	56	22.00	22.07	22.05		
20	QPSK	100	0	22.06	22.12	22.03	23.5	1.0
20	16QAM	1	1	21.76	21.79	21.75		
20	64QAM	1	1	20.29	20.40	20.35		
20	256QAM	1	1	18.90	19.03	18.97	20.0	4.5
Channel				371500	376000	380500	24.5	0.0
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	22.87	22.93	22.93		
Channel				371000	376000	381000	24.5	0.0
Frequency (MHz)				1850	1880	1900		
10	QPSK	1	1	22.84	23.01	22.90		
Channel				370500	376000	381500	24.5	0.0
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	22.89	23.02	22.86		

Full&Default Power Mode

n5 Ant 1

BW [MHz]	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	167500	167800	25.7	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	24.20	24.27	24.15		
20	PI2 BPSK	1	53	24.39	24.45	24.36	25.2	0.5
20	PI2 BPSK	1	104	24.35	24.47	24.34		
20	PI2 BPSK	50	0	23.96	24.09	23.99		
20	PI2 BPSK	50	28	24.39	24.45	24.31	25.7	0.0
20	PI2 BPSK	50	56	24.01	24.09	24.01		
20	PI2 BPSK	100	0	24.03	24.08	23.98		
20	QPSK	1	1	24.46	24.58	24.50	25.7	0.0
20	QPSK	1	53	24.32	24.43	24.35		
20	QPSK	1	104	24.31	24.38	24.29		
20	QPSK	50	0	23.48	23.61	23.54	24.7	1.0
20	QPSK	50	28	24.39	24.47	24.38		
20	QPSK	50	56	23.06	23.11	23.09		
20	QPSK	100	0	23.55	23.65	23.52	24.7	1.0
20	16QAM	1	1	23.10	23.22	23.18		
20	64QAM	1	1	21.70	21.81	21.77		
20	256QAM	1	1	20.31	20.42	20.36	21.2	4.5
Channel				165300	165800	166300	25.7	0.0
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.39	24.51	24.38		
Channel				165800	167300	168800	25.7	0.0
Frequency (MHz)				840	843.5	847		
10	QPSK	1	1	24.39	24.50	24.45		
Channel				165300	167300	169300	25.7	0.0
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.45	24.48	24.46		

n7 Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	25.0	0.0
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	23.38	23.45	23.37		
50	PI2 BPSK	1	135	23.38	23.44	23.41	25.0	0.0
50	PI2 BPSK	1	268	23.31	23.33	23.19		
50	PI2 BPSK	135	0	22.90	23.00	22.90		
50	PI2 BPSK	135	68	23.35	23.40	23.35	24.5	0.5
50	PI2 BPSK	135	135	23.02	23.15	23.13		
50	PI2 BPSK	270	0	22.94	23.04	22.96		
50	QPSK	1	1	23.38	23.41	23.35	25.0	0.0
50	QPSK	1	135	23.33	23.46	23.34		
50	QPSK	1	268	23.49	23.52	23.45		
50	QPSK	135	0	22.44	22.50	22.38	24.0	1.0
50	QPSK	135	68	23.34	23.42	23.38		
50	QPSK	135	135	22.54	22.63	22.57		
50	QPSK	270	0	22.50	22.58	22.45	24.0	1.0
50	16QAM	1	1	22.12	22.26	22.12		
50	64QAM	1	1	20.75	20.85	20.81		
50	256QAM	1	1	19.04	19.03	19.00	20.5	4.5
Channel				504000	507000	510000	25.0	0.0
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	23.38	23.48	23.37		
Channel				503000	507000	511000	25.0	0.0
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.44	23.46	23.39		
Channel				502500	507000	511500	25.0	0.0
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.38	23.40	23.38		
Channel				502000	507000	512000	25.0	0.0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	23.37	23.40	23.35		
Channel				501500	507000	512500	25.0	0.0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.45	23.49	23.32		
Channel				501000	507000	513000	25.0	0.0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.40	23.40	23.40		
Channel				500500	507000	513500	25.0	0.0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.46	23.47	23.40		

n66 Ant 1									
BW [MHz]	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	25.5	0.0	
Frequency (MHz)				1730	1745	1760			
40	Pl2 BPSK	1	1	23.64	23.75	23.85	25.5	0.0	
40	Pl2 BPSK	1	108	23.53	23.67	23.85			
40	Pl2 BPSK	1	214	23.54	23.84	23.81			
40	Pl2 BPSK	108	0	23.10	23.17	23.03	25.0	0.5	
40	Pl2 BPSK	108	54	23.55	23.86	23.52	25.5	0.0	
40	Pl2 BPSK	108	108	23.13	23.22	23.09	25.0	0.5	
40	Pl2 BPSK	216	0	23.19	23.28	23.17			
40	QPSK	1	1	23.69	23.76	23.74			
40	QPSK	1	108	23.59	23.82	23.96	25.5	0.0	
40	QPSK	1	214	23.54	23.59	23.54			
40	QPSK	108	0	22.54	22.60	22.53	24.5	1.0	
40	QPSK	108	54	23.58	23.82	23.51	25.5	0.0	
40	QPSK	108	108	22.65	22.70	22.66	24.5	1.0	
40	QPSK	216	0	22.65	22.67	22.63			
40	16QAM	1	1	22.82	22.84	22.56	24.5	1.0	
40	64QAM	1	1	21.03	21.15	21.04	23.0	2.5	
40	256QAM	1	1	19.40	19.48	19.37	21.0	4.5	
Channel				345000	349000	353000	25.5	0.0	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	23.58	23.74	23.62	25.5	0.0	
Channel				344500	349000	353500	25.5	0.0	
Frequency (MHz)				1722.5	1745	1747.5			
25	QPSK	1	1	23.63	23.89	23.81	25.5	0.0	
Channel				344000	349000	354000	25.5	0.0	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	23.65	23.89	23.72	25.5	0.0	
Channel				343500	349000	354500	25.5	0.0	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	23.61	23.73	23.63	25.5	0.0	
Channel				343000	349000	355000	25.5	0.0	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	23.59	23.67	23.66	25.5	0.0	
Channel				342500	349000	355500	25.5	0.0	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	23.65	23.72	23.86	25.5	0.0	

n7 Ant 3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	24.5	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	23.62	23.70	23.63	24.5	0.0
50	PI/2 BPSK	1	135	23.62	23.68	23.54		
50	PI/2 BPSK	1	268	23.62	23.71	23.51	24.0	0.5
50	PI/2 BPSK	135	0	23.28	23.35	23.24		
50	PI/2 BPSK	135	68	23.57	23.79	23.58	24.5	0.0
50	PI/2 BPSK	135	135	23.27	23.33	23.25		
50	PI/2 BPSK	270	0	23.27	23.41	23.32	24.0	0.5
50	QPSK	1	1	23.78	23.77	23.66		
50	QPSK	1	135	23.67	23.75	23.67	24.5	0.0
50	QPSK	1	268	23.81	23.86	23.79		
50	QPSK	135	0	22.77	22.82	22.81	23.5	1.0
50	QPSK	135	68	23.67	23.81	23.65		
50	QPSK	135	135	22.78	22.84	22.75	23.5	1.0
50	QPSK	270	0	22.81	22.85	22.79		
50	16QAM	1	1	22.82	22.82	22.77	23.5	1.0
50	64QAM	1	1	21.32	21.37	21.34		
50	256QAM	1	1	19.33	19.37	19.28	20.0	4.5
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550	24.5	0.0
40	QPSK	1	1	23.64	23.75	23.55		
Channel				503000	507000	511000	24.5	0.0
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.57	23.74	23.60	24.5	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2557.5	24.5	0.0
25	QPSK	1	1	23.65	23.75	23.54		
Channel				502000	507000	512000	24.5	0.0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	23.53	23.76	23.57	24.5	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5	24.5	0.0
15	QPSK	1	1	23.59	23.69	23.52		
Channel				501000	507000	513000	24.5	0.0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.58	23.72	23.59	24.5	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5	24.5	0.0
5	QPSK	1	1	23.56	23.77	23.52		

n2 Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				370000	370000	380000		
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	21.92	21.95	21.97		
20	PI2 BPSK	1	53	21.93	22.03	21.88	23.5	0.0
20	PI2 BPSK	1	104	21.90	21.96	21.94		
20	PI2 BPSK	50	0	21.47	21.57	21.53	23.0	0.5
20	PI2 BPSK	50	28	21.94	21.93	21.94	23.5	0.0
20	PI2 BPSK	50	56	21.54	21.56	21.47	23.0	0.5
20	PI2 BPSK	100	0	21.48	21.51	21.51		
20	QPSK	1	1	22.00	22.06	22.01		
20	QPSK	1	53	21.87	22.03	21.88	23.5	0.0
20	QPSK	1	104	21.87	21.94	21.98		
20	QPSK	50	0	21.05	21.11	21.04	22.5	1.0
20	QPSK	50	28	21.95	21.99	21.97	23.5	0.0
20	QPSK	50	56	21.00	21.05	21.04	22.5	1.0
20	QPSK	100	0	21.02	21.05	20.99		
20	16QAM	1	1	20.94	21.09	21.02	22.5	1.0
20	64QAM	1	1	19.56	19.53	19.48	21.0	2.5
20	256QAM	1	1	17.55	17.57	17.47	19.0	4.5
Channel				371500	370000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1860	1902.5		
15	QPSK	1	1	21.95	22.00	21.91	23.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1905	1900	1905		
10	QPSK	1	1	21.96	21.95	21.94	23.5	0.0
Channel				370500	370000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1860	1907.5		
5	QPSK	1	1	21.97	21.96	21.98	23.5	0.0

n5 Ant 4

BW [MHz]	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	167000	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	24.42	24.50	24.46		
20	PI2 BPSK	1	53	24.41	24.49	24.38	25.7	0.0
20	PI2 BPSK	1	104	24.43	24.53	24.47		
20	PI2 BPSK	50	0	24.01	24.07	23.95	25.2	0.5
20	PI2 BPSK	50	28	24.47	24.53	24.43	25.7	0.0
20	PI2 BPSK	50	56	24.01	24.09	23.96	25.2	0.5
20	PI2 BPSK	100	0	24.05	24.05	24.06		
20	QPSK	1	1	24.52	24.59	24.50		
20	QPSK	1	53	24.39	24.48	24.39	25.7	0.0
20	QPSK	1	104	24.46	24.46	24.42		
20	QPSK	50	0	23.46	23.62	23.47	24.7	1.0
20	QPSK	50	28	24.39	24.56	24.47	25.7	0.0
20	QPSK	50	56	23.50	23.61	23.47	24.7	1.0
20	QPSK	100	0	23.63	23.57	23.51		
20	16QAM	1	1	23.47	23.60	23.46	24.7	1.0
20	64QAM	1	1	22.08	22.14	21.99	23.2	2.5
20	256QAM	1	1	19.96	20.13	20.02	21.2	4.5
Channel				166300	167000	167500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.47	24.55	24.48	25.7	0.0
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.44	24.48	24.42	25.7	0.0
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.47	24.46	24.45	25.7	0.0

n7 Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	23.35	23.41	23.38		
50	PI2 BPSK	1	135	23.36	23.39	23.33	25.0	0.0
50	PI2 BPSK	1	268	23.36	23.40	23.35		
50	PI2 BPSK	135	0	23.01	23.04	23.00	24.5	0.5
50	PI2 BPSK	135	68	23.38	23.40	23.31	25.0	0.0
50	PI2 BPSK	135	135	23.02	22.99	22.97	24.5	0.5
50	PI2 BPSK	270	0	22.96	22.98	22.97		
50	QPSK	1	1	23.44	23.43	23.42		
50	QPSK	1	135	23.36	23.43	23.37	25.0	0.0
50	QPSK	1	268	23.46	23.52	23.45		
50	QPSK	135	0	22.49	22.53	22.50	24.0	1.0
50	QPSK	135	68	23.39	23.44	23.39	25.0	0.0
50	QPSK	135	135	22.47	22.49	22.43	24.0	1.0
50	QPSK	270	0	22.46	22.48	22.43		
50	16QAM	1	1	22.50	22.57	22.44	24.0	1.0
50	64QAM	1	1	20.99	21.01	20.96	22.5	2.5
50	256QAM	1	1	18.93	19.05	18.90	20.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	23.37	23.41	23.34	25.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2315	2335	2355		
30	QPSK	1	1	23.39	23.45	23.34	25.0	0.0
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.41	23.45	23.33	25.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	23.40	23.45	23.37	25.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.38	23.41	23.40	25.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.34	23.47	23.38	25.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.40	23.39	23.38	25.0	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				518004	519000	519996	25.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	23.29	23.35	23.35	25.0	0.0	
40	PI/2 BPSK	1	53	23.31	23.36	23.33			
40	PI/2 BPSK	1	104	23.32	23.40	23.33	24.5	0.5	
40	PI/2 BPSK	50	0	22.95	22.93	22.89			
40	PI/2 BPSK	50	28	23.33	23.37	23.38	25.0	0.0	
40	PI/2 BPSK	50	56	22.87	22.98	22.84			
40	PI/2 BPSK	100	0	22.91	22.97	22.95	24.5	0.5	
40	QPSK	1	1	23.42	23.47	23.40			
40	QPSK	1	53	23.38	23.39	23.31	25.0	0.0	
40	QPSK	1	104	23.33	23.40	23.30			
40	QPSK	50	0	22.43	22.43	22.42	24.0	1.0	
40	QPSK	50	28	23.38	23.42	23.30			
40	QPSK	50	56	22.47	22.50	22.39	25.0	0.0	
40	QPSK	100	0	22.37	22.53	22.43			
40	16QAM	1	1	22.44	22.48	22.35	24.0	1.0	
40	64QAM	1	1	20.92	20.95	20.86			
40	256QAM	1	1	18.88	18.99	18.91	20.5		
Channel				517002	519000	520998	25.0	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	23.40	23.43	23.29	25.0	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2582.52	2595	2607.48	25.0	MPR (dB)	
25	QPSK	1	1	23.32	23.42	23.35		0.0	
Channel				516000	519000	522000	25.0	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	23.34	23.37	23.33	25.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49	25.0	MPR (dB)	
15	QPSK	1	1	23.39	23.43	23.33		0.0	
Channel				515004	519000	522996	25.0	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	23.32	23.41	23.27	25.0		

n41 Ant 1									
BW [MHz]	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	23.35	23.45	23.41	25.0	0.0	
100	PI/2 BPSK	1	137	23.40	23.35	23.35			
100	PI/2 BPSK	1	271	23.35	23.47	23.35	24.5	0.5	
100	PI/2 BPSK	135	0	23.01	22.95	22.98			
100	PI/2 BPSK	135	69	23.41	23.43	23.45	25.0	0.0	
100	PI/2 BPSK	135	138	22.96	23.08	22.91			
100	PI/2 BPSK	270	0	22.91	23.06	23.00	24.5	0.5	
100	QPSK	1	1	23.51	23.53	23.48			
100	QPSK	1	137	23.44	23.44	23.37	25.0	0.0	
100	QPSK	1	271	23.40	23.46	23.38			
100	QPSK	135	0	22.45	22.53	22.42	24.0	1.0	
100	QPSK	135	69	23.43	23.51	23.31			
100	QPSK	135	138	22.48	22.51	22.43	25.0	0.0	
100	QPSK	270	0	22.45	22.56	22.44			
100	16QAM	1	1	22.47	22.47	22.41	24.0	1.0	
100	64QAM	1	1	20.95	21.05	20.88			
100	256QAM	1	1	18.94	19.06	18.96	20.5		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.48	23.47	23.39	25.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	23.48	23.51	23.34			
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.45	23.47	23.39	25.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	23.42	23.40	23.46			
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.40	23.51	23.44	25.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.48	23.49	23.40			
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.44	23.41	23.46	25.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.38	23.45	23.43			
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	23.48	23.43	23.40	25.0		

n48 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	646332			
Frequency (MHz)				3520	3624.99	3680			
40	PI2 BPSK	1	1	19.15	19.14	19.07			
40	PI2 BPSK	1	53	19.11	19.10	19.02	20.5		
40	PI2 BPSK	1	104	19.10	19.11	19.08			
40	PI2 BPSK	50	0	18.86	18.65	18.63	20.0	0.5	
40	PI2 BPSK	50	28	19.07	19.11	19.08	20.5	0.0	
40	PI2 BPSK	50	56	18.70	18.72	18.69	20.0	0.5	
40	PI2 BPSK	100	0	18.71	18.70	18.65			
40	QPSK	1	1	19.18	19.21	19.15			
40	QPSK	1	53	19.05	19.10	19.03			
40	QPSK	1	104	19.07	19.14	19.05	20.5	0.0	
40	QPSK	50	0	18.22	18.23	18.20	19.5	1.0	
40	QPSK	50	28	19.09	19.16	19.13	20.5	0.0	
40	QPSK	50	56	18.24	18.22	18.20	19.5	1.0	
40	QPSK	100	0	18.20	18.27	18.15			
40	16QAM	1	1	18.22	18.16	18.14	19.5	1.0	
40	64QAM	1	1	16.73	16.73	16.69	18.0	2.5	
40	256QAM	1	1	14.03	14.73	14.68	15.0	4.5	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	19.11	19.14	19.09	20.5	0.0	
Channel				637334	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3568.01	3624.99	3684.99			
20	QPSK	1	1	19.07	19.17	19.11	20.5	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3652.48			
16	QPSK	1	1	19.15	19.16	19.02	20.5	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565	3624.99	3695			
10	QPSK	1	1	19.09	19.12	19.04	20.5	0.0	

Par270 n77 Ant 2									
BW (MHz)	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	PI2 BPSK	1	1	17.89	17.94	17.92			
100	PI2 BPSK	1	137	17.87	17.95	17.81	19.5	0.0	
100	PI2 BPSK	1	271	17.94	17.96	17.90			
100	PI2 BPSK	135	0	17.48	17.49	17.47	19.0	0.5	
100	PI2 BPSK	135	69	17.91	17.88	17.92	19.5	0.0	
100	PI2 BPSK	135	138	17.49	17.56	17.43	19.0	0.5	
100	PI2 BPSK	270	0	17.49	17.51	17.44			
100	QPSK	1	1	17.99	18.02	17.95			
100	QPSK	1	137	17.90	17.96	17.88	19.5	0.0	
100	QPSK	1	271	17.91	17.95	17.85			
100	QPSK	135	0	16.95	17.05	16.94	18.5	1.0	
100	QPSK	135	69	17.86	17.96	17.90	19.5	0.0	
100	QPSK	135	138	17.00	16.99	16.96	18.5	1.0	
100	QPSK	270	0	16.96	17.00	16.92			
100	16QAM	1	1	16.96	16.98	16.90	18.5	1.0	
100	64QAM	1	1	15.49	15.49	15.44	17.0	2.5	
100	256QAM	1	1	13.54	13.48	13.39	15.0	4.5	
Channel				646668	652000	657334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	17.86	17.88	17.83	19.5	0.0	
Channel				646334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.01			
80	QPSK	1	109	17.90	17.95	17.81	19.5	0.0	
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	17.89	17.88	17.83	19.5	0.0	
Channel				646334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3965.02			
50	QPSK	1	67	17.92	17.89	17.86	19.5	0.0	
Channel				646200	652000	658200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	17.93	17.93	17.86	19.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3718.01	3840	3970.02			
20	QPSK	1	26	17.85	17.95	17.79	19.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	17.85	17.91	17.86	19.5	0.0	
Channel				647000	652000	658000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	17.90	17.92	17.87	19.5	0.0	

Par270 n77 HPUE Ant 2									
BW (MHz)	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	PI2 BPSK	1	1	20.88	20.93	20.87			
100	PI2 BPSK	1	137	20.85	20.93	20.86	22.5	0.0	
100	PI2 BPSK	1	271	20.98	20.92	20.96			
100	PI2 BPSK	135	0	20.46	20.52	20.50	22.0	0.5	
100	PI2 BPSK	135	69	20.89	20.91	20.88	22.5	0.0	
100	PI2 BPSK	135	138	20.55	20.51	20.43	22.0	0.5	
100	PI2 BPSK	270	0	20.46	20.51	20.49			
100	QPSK	1	1	20.94	21.04	20.96			
100	QPSK	1	137	20.88	21.03	20.89	22.5	0.0	
100	QPSK	1	271	20.96	20.98	20.97			
100	QPSK	135	0	19.94	20.00	19.89	21.5	1.0	
100	QPSK	135	69	20.88	20.95	20.86	22.5	0.0	
100	QPSK	135	138	19.99	20.04	19.93	21.5	1.0	
100	QPSK	270	0	20.02	20.05	19.96			
100	16QAM	1	1	19.91	20.02	19.92	21.5	1.0	
100	64QAM	1	1	18.43	18.47	18.39	20.0	2.5	
100	256QAM	1	1	16.51	16.46	16.37	18.0	4.5	
Channel				646668	652000	657334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	20.89	20.90	20.83	22.5	0.0	
Channel				646334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.01			
80	QPSK	1	109	20.79	20.96	20.86	22.5	0.0	
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	20.78	20.90	20.83	22.5	0.0	
Channel				646334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3965.02			
50	QPSK	1	67	20.88	20.90	20.92	22.5	0.0	
Channel				646200	652000	658200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	20.85	21.00	20.81	22.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3718.01	3840	3970.02			
20	QPSK	1	26	20.82	20.90	20.81	22.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	20.80	20.96	20.85	22.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3700	3840	3980			
10	QPSK	1	12	20.81	20.95	20.83	22.5	0.0	

Part270 n78 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		21.07	21.04		22.5	0.0
100	PI2 BPSK	1	271		21.04				
100	PI2 BPSK	135	0		20.68			22.0	0.5
100	PI2 BPSK	135	69		20.68			22.5	0.0
100	PI2 BPSK	135	138		20.61			22.0	0.5
100	PI2 BPSK	270	0		20.65				
100	QPSK	1	1		21.14				
100	QPSK	1	137		21.05			22.5	0.0
100	QPSK	1	271		21.04				
100	QPSK	135	0		20.21			21.5	1.0
100	QPSK	135	69		21.06			22.5	0.0
100	QPSK	135	138		20.15			21.5	1.0
100	QPSK	270	0		20.05				
100	16QAM	1	1		20.13			21.5	1.0
100	64QAM	1	1		18.63			20.0	2.5
100	256QAM	1	1		18.62			18.0	4.5
Channel									
				649668	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
90	QPSK	1	123		21.08	21.02		22.5	0.0
Channel									
				646334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
80	QPSK	1	109		21.00	21.06	20.99	22.5	0.0
Channel									
				646000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
70	QPSK	1	95		21.00	21.04	20.95	22.5	0.0
Channel									
				646668	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
60	QPSK	1	81		21.02	21.06	21.01	22.5	0.0
Channel									
				645334	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
50	QPSK	1	67		21.04	21.10	21.00	22.5	0.0
Channel									
				646000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
40	QPSK	1	53		21.05	21.04	20.94	22.5	0.0
Channel									
				647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
30	QPSK	1	39		21.04	21.10	20.98	22.5	0.0
Channel									
				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
20	QPSK	1	26		20.99	21.07	20.98	22.5	0.0
Channel									
				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
15	QPSK	1	19		21.00	21.01	21.05	22.5	0.0
Channel									
				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)									
10	QPSK	1	12		21.02	21.03	20.94	22.5	0.0

Part27Q 78 Ant 2									
BW [MHz]	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		18.14				
100	PI2 BPSK	1	137		18.14		19.5	0.0	
100	PI2 BPSK	1	271		18.18				
100	PI2 BPSK	135	0		17.74		19.0	0.5	
100	PI2 BPSK	135	69		18.13		19.5	0.0	
100	PI2 BPSK	135	138		17.69		19.0	0.5	
100	PI2 BPSK	270	0		17.69				
100	QPSK	1	1		18.28				
100	QPSK	1	137		18.22		19.5	0.0	
100	QPSK	1	271		18.18				
100	QPSK	135	0		17.21		18.5	1.0	
100	QPSK	135	69		18.22		19.5	0.0	
100	QPSK	135	138		17.27		18.5	1.0	
100	QPSK	270	0		17.27				
100	16QAM	1	1		17.22		18.5	1.0	
100	64QAM	1	1		15.72		17.0	2.5	
100	256QAM	1	1		13.73		15.0	4.5	
Channel									
				633000	633334	633668	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)									
90	QPSK	1	123		18.13	18.12	18.16	19.5	0.0
Channel									
				632668	633334	634000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)									
80	QPSK	1	109		18.19	18.13	18.13	19.5	0.0
Channel									
				632334	633334	634334	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)									
70	QPSK	1	96		18.18	18.15	18.12	19.5	0.0
Channel									
				632000	633334	634668	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)									
60	QPSK	1	81		18.19	18.14	18.07	19.5	0.0
Channel									
				631668	633334	635000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)									
50	QPSK	1	67		18.14	18.14	18.19	19.5	0.0
Channel									
				631334	633334	635334	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)									
40	QPSK	1	53		18.10	18.22	18.12	19.5	0.0
Channel									
				631000	633334	635668	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	39		18.12	18.19	18.09	19.5	0.0
Channel									
				630668	633334	636000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	26		18.13	18.16	18.14	19.5	0.0
Channel									
				630500	633334	636334	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	19		18.14	18.18	18.10	19.5	0.0
Channel									
				630334	633334	636334	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	12		18.14	18.16	18.07	19.5	0.0

Part27Q 78 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		21.12				
100	PI2 BPSK	1	137		21.09		22.5	0.0	
100	PI2 BPSK	1	271		21.21				
100	PI2 BPSK	135	0		20.73		22.0	0.5	
100	PI2 BPSK	135	69		21.12		22.5	0.0	
100	PI2 BPSK	135	138		20.69		22.0	0.5	
100	PI2 BPSK	270	0		20.73				
100	QPSK	1	1		21.32				
100	QPSK	1	137		21.25		22.5	0.0	
100	QPSK	1	271		21.23				
100	QPSK	135	0		20.26		21.5	1.0	
100	QPSK	135	69		21.18		22.5	0.0	
100	QPSK	135	138		20.28		21.5	1.0	
100	QPSK	270	0		20.31				
100	16QAM	1	1		20.24		21.5	1.0	
100	64QAM	1	1		18.74		20.0	2.5	
100	256QAM	1	1		18.77		18.0	4.5	
Channel									
				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
90	QPSK	1	123		21.14	21.12	21.15	22.5	0.0
Channel									
				633068	633301	633534	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
80	QPSK	1	100		21.19	21.10	21.15	22.5	0.0
Channel									
				633334	633567	633800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
70	QPSK	1	95	21.08	21.00	21.12	21.20	22.5	0.0
Channel									
				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
60	QPSK	1	81	21.12	21.10	21.18	22.5	0.0	
Channel									
				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
50	QPSK	1	67	21.16	21.13	21.12	22.5	0.0	
Channel									
				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
40	QPSK	1	53	21.12	21.07	21.11	22.5	0.0	
Channel									
				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	39	21.07	21.13	21.18	22.5	0.0	
Channel									
				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	26	21.10	21.02	21.14	22.5	0.0	
Channel									
				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	19	21.18	21.11	21.11	22.5	0.0	
Channel									
				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	12	21.11	21.13	21.15	22.5	0.0	

n38 Ant 3									
BW (MHz)	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)									
40	PI2 BPSK	1	1	23.65	23.71	23.71	24.5	0.0	
40	PI2 BPSK	1	53	23.65	23.75	23.72			
40	PI2 BPSK	1	104	23.64	23.68	23.62			
40	PI2 BPSK	50	0	23.16	23.28	23.28	24.0	0.5	
40	PI2 BPSK	50	28	23.67	23.72	23.69	24.5	0.0	
40	PI2 BPSK	50	56	23.20	23.27	23.20	24.0	0.5	
40	PI2 BPSK	100	0	23.18	23.32	23.31	24.0	0.5	
40	QPSK	1	1	23.71	23.79	23.76			
40	QPSK	1	53	23.67	23.75	23.73			
40	QPSK	1	104	23.66	23.66	23.66	23.5	1.0	
40	QPSK	50	0	22.89	22.84	22.71			
40	QPSK	50	28	23.62	23.72	23.69	24.5	0.0	
40	QPSK	50	56	22.70	22.74	22.80	23.5	1.0	
40	QPSK	100	0	22.73	22.85	22.75	23.5	1.0	
40	16QAM	1	1	22.74	22.76	22.76	23.5	1.0	
40	64QAM	1	1	21.26	21.33	21.20	22.0	2.5	
40	256QAM	1	1	19.22	19.30	19.27	20.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.65	23.67	23.65	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.64	23.67	23.64	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.66	23.67	23.71	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.58	23.74	23.73	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.65	23.74	23.65	24.5	0.0	

n41 Ant 3											
BW (MHz)	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	23.73	23.82	23.79	24.5	0.0			
100	PI2 BPSK	1	137	23.76	23.80	23.82					
100	PI2 BPSK	1	271	23.75	23.80	23.67					
100	PI2 BPSK	135	0	23.24	23.39	23.31	24.0	0.5			
100	PI2 BPSK	135	69	23.75	23.82	23.70	24.5	0.0			
100	PI2 BPSK	135	138	23.23	23.34	23.26	24.0	0.5			
100	PI2 BPSK	270	0	23.19	23.36	23.42	24.5	0.0			
100	QPSK	1	1	23.72	23.86	23.79					
100	QPSK	1	107	23.71	23.83	23.80					
100	QPSK	1	271	23.71	23.71	23.70	23.5	1.0			
100	QPSK	135	0	22.74	22.89	22.71	23.5	0.0			
100	QPSK	135	69	23.68	23.83	23.76	24.5	0.0			
100	QPSK	135	138	22.74	22.82	22.87	23.5	1.0			
100	QPSK	270	0	22.79	22.96	22.82	23.5	1.0			
100	16QAM	1	1	22.82	22.80	22.87	23.5	1.0			
100	64QAM	1	1	21.32	21.41	21.21	22.0	2.5			
100	256QAM	1	1	19.28	19.34	19.31	20.0	4.5			
Channel											
Frequency (MHz)											
90	QPSK	1	123	23.61	23.79	23.65	24.5	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	109	23.59	23.76	23.69	24.5	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	81	23.63	23.73	23.71	24.5	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	67	23.67	23.80	23.67	24.5	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	53	23.58	23.74	23.74	24.5	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	39	23.66	23.75	23.73	24.5	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	26	23.67	23.81	23.75	24.5	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	19	23.61	23.74	23.73	24.5	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	12	23.61	23.73	23.74	24.5	0.0			

n48 Ant 3											
BW [MHz]	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)											
40	PI2 BPSK	1	1	20.41	20.42	20.43	22.0	0.0			
40	PI2 BPSK	1	53	20.44	20.47	20.46					
40	PI2 BPSK	1	104	20.35	20.48	20.39					
40	PI2 BPSK	50	0	19.93	20.07	20.00	21.5	0.5			
40	PI2 BPSK	50	28	20.46	20.44	20.47	22.0	0.0			
40	PI2 BPSK	50	56	19.97	20.09	20.06	21.5	0.5			
40	PI2 BPSK	100	0	19.98	20.04	20.07	22.0	0.0			
40	QPSK	1	1	20.48	20.55	20.52					
40	QPSK	1	53	20.40	20.44	20.48					
40	QPSK	1	104	20.45	20.51	20.47	21.0	1.0			
40	QPSK	50	0	19.97	20.07	19.97					
40	QPSK	50	28	20.40	20.50	20.46	22.0	0.0			
40	QPSK	50	56	19.98	20.06	20.05	21.0	1.0			
40	QPSK	100	0	19.93	20.05	19.96	21.0	1.0			
40	16QAM	1	1	19.95	20.06	20.02	21.0	1.0			
40	64QAM	1	1	17.98	18.10	18.05	19.5	2.5			
40	256QAM	1	1	15.98	16.11	16.00	17.5	4.5			
Channel											
Frequency (MHz)											
30	QPSK	1	1	20.36	20.51	20.48	22.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	20.41	20.48	20.43	22.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	20.43	20.47	20.41	22.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	20.41	20.48	20.39	22.0	0.0			

Par270 n77 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq 650000	Power Middle Ch. / Freq 650000	Power High Ch. / Freq 660000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	18.42	18.47	18.41		20.0	0.0
100	PI2 BPSK	1	137	18.44	18.44	18.43			
100	PI2 BPSK	1	271	18.47	18.51	18.44			
100	PI2 BPSK	135	0	18.10	18.08	18.00	19.5	0.5	
100	PI2 BPSK	135	69	18.47	18.50	18.42	20.0	0.0	
100	PI2 BPSK	135	138	18.03	18.13	17.97	19.5	0.5	
100	PI2 BPSK	270	0	18.09	18.07	18.06			
100	QPSK	1	1	18.55	18.59	18.52		20.0	0.0
100	QPSK	1	137	18.44	18.47	18.47			
100	QPSK	1	271	18.42	18.47	18.40			
100	QPSK	135	0	17.54	17.54	17.51	19.0	1.0	
100	QPSK	135	69	18.44	18.57	18.44	20.0	0.0	
100	QPSK	135	138	17.52	17.59	17.54	19.0	1.0	
100	QPSK	270	0	17.57	17.63	17.54			
100	16QAM	1	1	17.57	17.55	17.54	19.0	1.0	
100	64QAM	1	1	16.02	16.10	16.03	17.5	2.5	
100	256QAM	1	1	14.02	14.00	14.00	15.5	4.5	
Channel				650000	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	18.45	18.52	18.39	20.0	0.0	
Channel				653334	650000	655666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	18.47	18.53	18.50	20.0	0.0	
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	18.42	18.44	18.45	20.0	0.0	
Channel				648334	650000	653068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	18.48	18.48	18.43	20.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	18.50	18.51	18.48	20.0	0.0	
Channel				647334	650000	654868	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	18.45	18.50	18.48	20.0	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	18.46	18.49	18.39	20.0	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	18.49	18.47	18.48	20.0	0.0	

Par270 n77 HPUE Ant 3									
BW [MHz]	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	660000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	21.43	21.46	21.43		23.0	0.0
100	PI2 BPSK	1	137	21.40	21.54	21.49			
100	PI2 BPSK	1	271	21.50	21.54	21.45			
100	PI2 BPSK	135	0	21.05	21.10	20.99	22.5	0.5	
100	PI2 BPSK	135	69	21.45	21.54	21.41	23.0	0.0	
100	PI2 BPSK	135	138	21.06	21.16	20.96	22.5	0.5	
100	PI2 BPSK	270	0	21.07	21.07	21.11			
100	QPSK	1	1	21.56	21.62	21.56		23.0	0.0
100	QPSK	1	137	21.39	21.48	21.47			
100	QPSK	1	271	21.47	21.41	21.45			
100	QPSK	135	0	20.48	20.55	20.46	22.0	1.0	
100	QPSK	135	69	21.38	21.58	21.50	23.0	0.0	
100	QPSK	135	138	20.58	20.59	20.49	22.0	1.0	
100	QPSK	270	0	20.57	20.55	20.52			
100	16QAM	1	1	20.52	20.57	20.49	22.0	1.0	
100	64QAM	1	1	19.06	19.08	19.01	20.5	2.5	
100	256QAM	1	1	17.04	17.00	17.02	18.5	4.5	
Channel				649668	650000	650234	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	21.45	21.52	21.47	23.0	0.0	
Channel				649334	650000	650666	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	21.43	21.56	21.50	23.0	0.0	
Channel				648668	650000	653334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	21.43	21.48	21.44	23.0	0.0	
Channel				648334	650000	653068	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	21.45	21.49	21.52	23.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	21.43	21.59	21.48	23.0	0.0	
Channel				647334	650000	654868	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	21.48	21.55	21.47	23.0	0.0	
Channel				647168	650000	654834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	21.52	21.57	21.53	23.0	0.0	
Channel				647000	650000	655000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	21.49	21.50	21.48	23.0	0.0	

Part27Q n77 Ant 3									
BW [MHz]	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	636666			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	18.82			20.0	0.0	
100	PI2 BPSK	1	137	18.82					
100	PI2 BPSK	1	271	18.80					
100	PI2 BPSK	135	0	18.42			19.5	0.5	
100	PI2 BPSK	135	69	18.76			20.0	0.0	
100	PI2 BPSK	135	138	18.44			19.5	0.5	
100	PI2 BPSK	270	0	18.31					
100	QPSK	1	1	18.89			20.0	0.0	
100	QPSK	1	137	18.85					
100	QPSK	1	271	18.77					
100	QPSK	135	0	17.90			19.0	1.0	
100	QPSK	135	69	18.87			20.0	0.0	
100	QPSK	135	138	17.91			19.0	1.0	
100	QPSK	270	0	17.97					
100	16QAM	1	1	17.90			19.0	1.0	
100	64QAM	1	1	16.42			17.5	2.5	
100	256QAM	1	1	14.40			15.5	4.5	
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495.00	3500.01	3505.02			
90	QPSK	1	123	18.78	18.82	18.68	20.0	0.0	
Channel				629668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510.01			
80	QPSK	1	109	18.71	18.80	18.74	20.0	0.0	
Channel				630000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.00	3500.01	3520.02			
60	QPSK	1	81	18.72	18.79	18.69	20.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525.02			
50	QPSK	1	67	18.76	18.81	18.74	20.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	18.77	18.80	18.73	20.0	0.0	
Channel				630968	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540.02			
20	QPSK	1	26	18.74	18.79	18.69	20.0	0.0	
Channel				630500	633334	636181	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	18.70	18.82	18.68	20.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	18.70	18.83	18.71	20.0	0.0	

Part27Q n77 HPUE Ant 3									
BW [MHz]	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	21.85					
100	PI2 BPSK	1	137	21.85			23.0	0.0	
100	PI2 BPSK	1	271	21.75					
100	PI2 BPSK	135	0	21.39			22.5	0.5	
100	PI2 BPSK	135	69	21.62			23.0	0.0	
100	PI2 BPSK	135	138	21.47			22.5	0.5	
100	PI2 BPSK	270	0	21.32					
100	QPSK	1	1	21.94					
100	QPSK	1	137	21.77			23.0	0.0	
100	QPSK	1	271	21.77					
100	QPSK	135	0	20.94			22.0	1.0	
100	QPSK	135	69	21.81			23.0	0.0	
100	QPSK	135	138	20.93			22.0	1.0	
100	QPSK	270	0	21.01					
100	16QAM	1	1	20.92			22.0	1.0	
100	64QAM	1	1	19.43			20.5	2.5	
100	256QAM	1	1	17.43			18.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	23.0	0.0	
90	QPSK	1	123	21.75	21.79	21.63	23.0	0.0	
Channel				630668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3498.02	3500.01	3510	23.0	0.0	
80	QPSK	1	109	21.78	21.85	21.66	23.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3500.01	3520.02	23.0	0.0	
80	QPSK	1	81	21.80	21.73	21.67	23.0	0.0	
Channel				637668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3476.02	3500.01	3525	23.0	0.0	
50	QPSK	1	67	21.78	21.86	21.73	23.0	0.0	
Channel				6370.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	23.0	0.0	
40	QPSK	1	53	21.75	21.84	21.68	23.0	0.0	
Channel				636668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.02	3500.01	3460	23.0	0.0	
20	QPSK	1	26	21.82	21.80	21.83	23.0	0.0	
Channel				630000	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52	23.0	0.0	
15	QPSK	1	19	21.72	21.79	21.83	23.0	0.0	
Channel				635334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3458.01	3500.01	3545.01	23.0	0.0	
10	QPSK	1	12	21.76	21.82	21.68	23.0	0.0	

Part27O n78 Ant 3									
BW [MHz]	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	18.57					
100	PI2 BPSK	1	137	18.55			20.0	0.0	
100	PI2 BPSK	1	271	18.58					
100	PI2 BPSK	135	0	18.09			19.5	0.5	
100	PI2 BPSK	135	69	18.59			20.0	0.0	
100	PI2 BPSK	135	138	18.22			19.5	0.5	
100	PI2 BPSK	270	0	18.17					
100	QPSK	1	1	18.05			20.0	0.0	
100	QPSK	1	137	18.59					
100	QPSK	1	271	18.56					
100	QPSK	135	0	17.57			19.0	1.0	
100	QPSK	135	69	18.60			20.0	0.0	
100	QPSK	135	138	17.60			19.0	1.0	
100	QPSK	270	0	17.66					
100	16QAM	1	1	17.58			19.0	1.0	
100	64QAM	1	1	16.15			17.5	2.5	
100	256QAM	1	1	14.14			15.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	20.0	0.0	
90	QPSK	1	123	18.50	18.59	18.43	20.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	20.0	0.0	
80	QPSK	1	109	18.47	18.55	18.43	20.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	20.0	0.0	
70	QPSK	1	95	18.50	18.59	18.43	20.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	20.0	0.0	
60	QPSK	1	81	18.46	18.52	18.50	20.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	20.0	0.0	
50	QPSK	1	67	18.46	18.57	18.39	20.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	20.0	0.0	
40	QPSK	1	53	18.48	18.63	18.47	20.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	20.0	0.0	
30	QPSK	1	39	18.55	18.54	18.42	20.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	20.0	0.0	
20	QPSK	1	26	18.48	18.63	18.42	20.0	0.0	
Channel				647000	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	20.0	0.0	
15	QPSK	1	19	18.50	18.58	18.49	20.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	20.0	0.0	
10	QPSK	1	12	18.50	18.55	18.46	20.0	0.0	

Part27O n78 HPUE Ant 3									
BW [MHz]	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	21.62					
100	Pi2 BPSK	1	137	21.53			23.0	0.0	
100	Pi2 BPSK	1	271	21.62					
100	Pi2 BPSK	135	0	21.06			22.5	0.5	
100	Pi2 BPSK	135	69	21.57			23.0	0.0	
100	Pi2 BPSK	135	138	21.27			22.5	0.5	
100	Pi2 BPSK	270	0	21.20					
100	QPSK	1	1	21.64			23.0	0.0	
100	QPSK	1	137	21.61					
100	QPSK	1	271	21.62					
100	QPSK	135	0	20.66			22.0	1.0	
100	QPSK	135	69	21.61			23.0	0.0	
100	QPSK	135	138	20.59			22.0	1.0	
100	QPSK	270	0	20.70					
100	16QAM	1	1	20.52			20.5	2.5	
100	64QAM	1	1	19.14			20.5	2.5	
100	256QAM	1	1	17.20			18.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	23.0	0.0	
90	QPSK	1	123	21.55	21.55	21.43	23.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	23.0	0.0	
80	QPSK	1	109	21.55	21.53	21.39	23.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	23.0	0.0	
70	QPSK	1	65	21.52	21.62	21.44	23.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.00	3750	3770.01	23.0	0.0	
60	QPSK	1	81	21.56	21.60	21.49	23.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	23.0	0.0	
50	QPSK	1	67	21.50	21.47	21.39	23.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	23.0	0.0	
40	QPSK	1	53	21.53	21.57	21.40	23.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.00	3750	3785.01	23.0	0.0	
30	QPSK	1	39	21.47	21.54	21.42	23.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	23.0	0.0	
20	QPSK	1	26	21.47	21.59	21.44	23.0	0.0	
Channel				647000	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	23.0	0.0	
15	QPSK	1	19	21.56	21.54	21.45	23.0	0.0	
Channel				646668	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	23.0	0.0	
10	QPSK	1	12	21.47	21.63	21.45	23.0	0.0	

Part27Q 78 Ant 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	
				633334	633334		
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	18.90			
100	PI2 BPSK	1	137	18.96			
100	PI2 BPSK	1	271	18.98			
100	PI2 BPSK	135	0	18.60			
100	PI2 BPSK	135	69	18.69			
100	PI2 BPSK	135	138	18.55			
100	PI2 BPSK	270	0	18.37			
100	QPSK	1	1	19.06			
100	QPSK	1	137	18.93			
100	QPSK	1	271	18.87			
100	QPSK	135	0	17.88			
100	QPSK	135	69	19.04			
100	QPSK	135	138	18.54			
100	QPSK	270	0	18.10			
100	16QAM	1	1	18.07			
100	64QAM	1	1	18.56			
100	256QAM	1	1	14.37			
Channel				633330	633334	633668	
Frequency (MHz)				3485	3500.01	3505.02	
90	QPSK	1	123	18.88	18.95	18.84	
Channel				632068	633334	634000	
Frequency (MHz)				3480.02	3500.01	3510	
80	QPSK	1	109	18.85	18.93	18.85	
Channel				632334	633334	634334	
Frequency (MHz)				3485.01	3500.01	3515.01	
70	QPSK	1	96	18.86	18.94	18.82	
Channel				632000	633334	634668	
Frequency (MHz)				3480	3500.01	3500.02	
60	QPSK	1	81	18.88	18.88	18.77	
Channel				631668	633334	635000	
Frequency (MHz)				3475.02	3500.01	3525	
50	QPSK	1	67	18.95	18.95	18.85	
Channel				631334	633334	635334	
Frequency (MHz)				3470.01	3500.01	3530.01	
40	QPSK	1	53	18.87	18.94	18.83	
Channel				631000	633334	635668	
Frequency (MHz)				3465	3500.01	3535.02	
30	QPSK	1	39	18.92	18.89	18.82	
Channel				630505	633334	636000	
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	26	18.94	19.00	18.76	
Channel				630000	633334	636785	
Frequency (MHz)				3457.5	3500.01	3542.92	
15	QPSK	1	19	18.89	18.89	18.79	
Channel				630334	633334	636334	
Frequency (MHz)				3462.01	3500.01	3543.01	
10	QPSK	1	12	18.85	18.95	18.82	

Part27Q 78 HPUE Ant 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	
				633334	633334		
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	21.91			
100	PI2 BPSK	1	137	21.97			
100	PI2 BPSK	1	271	22.04			
100	PI2 BPSK	135	0	21.65			
100	PI2 BPSK	135	69	21.88			
100	PI2 BPSK	135	138	21.50			
100	PI2 BPSK	270	0	21.40			
100	QPSK	1	1	22.07			
100	QPSK	1	137	21.99			
100	QPSK	1	271	21.85			
100	QPSK	135	0	20.96			
100	QPSK	135	69	22.05			
100	QPSK	135	138	20.59			
100	QPSK	270	0	21.15			
100	16QAM	1	1	21.04			
100	64QAM	1	1	19.61			
100	256QAM	1	1	17.62			
Channel				633330	633334	633668	
Frequency (MHz)				3485	3500.01	3505.02	
90	QPSK	1	123	21.94	21.99	21.88	
Channel				632068	633334	634000	
Frequency (MHz)				3480.02	3500.01	3510	
80	QPSK	1	109	21.89	21.95	21.90	
Channel				632334	633334	634334	
Frequency (MHz)				3485.01	3500.01	3515.01	
70	QPSK	1	96	21.91	21.93	21.80	
Channel				632000	633334	634668	
Frequency (MHz)				3480	3500.01	3500.02	
60	QPSK	1	81	21.86	21.86	21.82	
Channel				631668	633334	635000	
Frequency (MHz)				3475.02	3500.01	3525	
50	QPSK	1	67	21.88	21.99	21.88	
Channel				631334	633334	635334	
Frequency (MHz)				3470.01	3500.01	3530.01	
40	QPSK	1	53	21.92	21.96	21.87	
Channel				631000	633334	635668	
Frequency (MHz)				3465	3500.01	3535.02	
30	QPSK	1	39	21.89	21.83	21.89	
Channel				630505	633334	636000	
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	26	21.86	21.96	21.82	
Channel				630000	633334	636785	
Frequency (MHz)				3457.5	3500.01	3542.92	
15	QPSK	1	19	21.86	21.93	21.85	
Channel				630334	633334	636334	
Frequency (MHz)				3462.01	3500.01	3543.01	
10	QPSK	1	12	21.89	21.90	21.89	

n38 Ant 4									
BW [MHz]	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	23.5	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	21.96	22.00	21.97	23.5	0.0	
40	PI/2 BPSK	1	53	21.89	21.99	21.89			
40	PI/2 BPSK	1	104	21.91	21.97	21.94			
40	PI/2 BPSK	50	0	21.56	21.53	21.50	23.0	0.5	
40	PI/2 BPSK	50	28	21.98	22.01	21.91	23.5	0.0	
40	PI/2 BPSK	50	56	21.45	21.55	21.54	23.0	0.5	
40	PI/2 BPSK	100	0	21.45	21.52	21.56			
40	QPSK	1	1	22.01	22.07	22.02	23.5	0.0	
40	QPSK	1	53	21.98	22.04	21.98			
40	QPSK	1	104	21.92	22.03	21.97			
40	QPSK	50	0	21.03	21.11	21.05	22.5	1.0	
40	QPSK	50	28	21.98	21.98	21.89	23.5	0.0	
40	QPSK	50	56	20.98	21.10	21.07	22.5	1.0	
40	QPSK	100	0	20.98	21.09	21.05			
40	16QAM	1	1	21.05	21.06	20.97	22.5	1.0	
40	64QAM	1	1	19.54	19.60	19.46	21.0	2.5	
40	256QAM	1	1	17.50	17.57	17.54	19.0	4.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	21.95	21.95	21.91	23.5	0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	21.90	21.97	21.93	23.5	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	21.92	21.96	22.00	23.5	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	21.92	21.96	21.97	23.5	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	21.97	22.05	21.91	23.5	0.0	

n41 Ant 4									
BW [MHz]	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	25.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	23.09	23.09	23.04	25.0	0.0	
100	PI/2 BPSK	1	137	23.01	23.07	23.05			
100	PI/2 BPSK	1	271	23.06	23.07	23.06	24.5	0.5	
100	PI/2 BPSK	135	0	22.64	22.58	22.57			
100	PI/2 BPSK	135	69	23.02	23.07	23.04	24.5	0.5	
100	PI/2 BPSK	135	138	22.56	22.64	22.65			
100	PI/2 BPSK	270	0	22.52	22.57	22.66	25.0	0.0	
100	QPSK	1	1	23.05	23.18	23.06			
100	QPSK	1	137	23.05	23.12	23.04	25.0	0.0	
100	QPSK	1	271	23.01	23.14	23.10			
100	QPSK	135	0	22.09	22.19	22.15	24.0	1.0	
100	QPSK	135	69	23.01	23.04	23.02			
100	QPSK	135	138	22.06	22.17	22.13	24.0	1.0	
100	QPSK	270	0	22.11	22.18	22.15			
100	16QAM	1	1	22.13	22.17	22.15	24.0	1.0	
100	64QAM	1	1	20.65	20.72	20.59			
100	256QAM	1	1	18.63	18.63	18.58	20.5		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.02	23.08	22.97	25.0		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.94	23.14	22.98	25.0		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2639.98			
60	QPSK	1	1	22.92	23.13	22.99	25.0		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.97	23.08	22.97	25.0		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.99	23.09	22.95	25.0		
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.02	23.12	22.99	25.0		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.97	23.13	22.95	25.0		
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	22.98	23.07	23.00	25.0		
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	22.98	23.14	23.00	25.0		

n48 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	646332			
Frequency (MHz)				3520	3624.99	3680			
40	PI2 BPSK	1	1	24.45	24.48	24.46			
40	PI2 BPSK	1	53	24.45	24.49	24.44	26.0	0.0	
40	PI2 BPSK	1	104	24.37	24.53	24.45			
40	PI2 BPSK	50	0	23.99	24.03	24.01	25.5	0.5	
40	PI2 BPSK	50	28	24.40	24.52	24.46	26.0	0.0	
40	PI2 BPSK	50	56	24.03	24.02	24.05	25.5	0.5	
40	PI2 BPSK	100	0	24.05	24.06	24.02			
40	QPSK	1	1	24.50	24.57	24.52			
40	QPSK	1	53	24.41	24.52	24.46	26.0	0.0	
40	QPSK	1	104	24.45	24.46	24.40			
40	QPSK	50	0	23.49	23.63	23.46	25.0	1.0	
40	QPSK	50	28	24.44	24.51	24.44	26.0	0.0	
40	QPSK	50	56	23.54	23.51	23.47	25.0	1.0	
40	QPSK	100	0	23.51	23.57	23.47			
40	16QAM	1	1	23.55	23.52	23.56	25.0	1.0	
40	64QAM	1	1	22.02	22.10	21.98	23.5	2.5	
40	256QAM	1	1	19.98	20.03	20.08	21.5	4.5	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	24.39	24.54	24.44	26.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3568.03	3624.99	3680.00			
20	QPSK	1	1	24.43	24.49	24.43	26.0	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3567.52	3624.99	3662.48			
15	QPSK	1	1	24.43	24.45	24.41	23.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565	3624.99	3695			
10	QPSK	1	1	24.44	24.48	24.46	26.0	0.0	

Par270 n77 Ant 5									
BW [MHz]	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	PI2 BPSK	1	1	22.91	23.01	22.96			
100	PI2 BPSK	1	137	23.00	23.02	22.97	24.5	0.0	
100	PI2 BPSK	1	271	22.98	23.01	23.01			
100	PI2 BPSK	135	0	22.59	22.67	22.61	24.0	0.5	
100	PI2 BPSK	135	69	23.01	23.03	22.96	24.5	0.0	
100	PI2 BPSK	135	138	22.50	22.65	22.56	24.0	0.5	
100	PI2 BPSK	270	0	22.58	22.66	22.55			
100	QPSK	1	1	23.05	23.11	23.08			
100	QPSK	1	137	22.95	23.03	23.03	24.5	0.0	
100	QPSK	1	271	22.98	23.08	23.03			
100	QPSK	135	0	22.09	22.11	22.08	23.5	1.0	
100	QPSK	135	69	22.96	23.05	22.98	24.5	0.0	
100	QPSK	135	138	22.09	22.08	22.06	23.5	1.0	
100	QPSK	270	0	22.03	22.06	22.06			
100	16QAM	1	1	22.08	22.07	22.08	23.5	1.0	
100	64QAM	1	1	20.52	20.67	20.60	22.0	2.5	
100	256QAM	1	1	18.54	18.59	18.53	20.0	4.5	
Channel				646968	652000	657154	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	23.00	23.05	23.04	24.5	0.0	
Channel				646334	656000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3940.01			
80	QPSK	1	109	22.98	22.98	22.95	24.5	0.0	
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	22.95	22.98	23.01	24.5	0.0	
Channel				646334	656000	663668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	23.02	23.09	23.00	24.5	0.0	
Channel				646000	656000	664000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	23.01	23.04	22.94	24.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3718.01	3840	3970.02			
20	QPSK	1	26	22.95	23.03	23.00	24.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	22.96	22.99	22.96	24.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	22.98	23.09	22.96	24.5	0.0	

Par270 n77 HPUE Ant 5									
BW [MHz]	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	PI2 BPSK	1	1	25.69	26.07	25.94			
100	PI2 BPSK	1	137	26.04	26.07	25.94	27.5	0.0	
100	PI2 BPSK	1	271	25.94	25.98	26.00			
100	PI2 BPSK	135	0	25.55	25.73	25.58	27.0	0.5	
100	PI2 BPSK	135	69	26.06	26.05	25.95	27.5	0.0	
100	PI2 BPSK	135	138	25.50	25.63	25.50	27.0	0.5	
100	PI2 BPSK	270	0	25.52	25.71	25.56			
100	QPSK	1	1	26.10	26.14	26.11			
100	QPSK	1	137	26.00	26.06	26.06	27.5	0.0	
100	QPSK	1	271	26.02	26.03	26.05			
100	QPSK	135	0	25.07	25.12	25.12	26.5	1.0	
100	QPSK	135	69	26.01	26.09	26.02	27.5	0.0	
100	QPSK	135	138	25.06	25.08	25.10	26.5	1.0	
100	QPSK	270	0	25.02	25.12	25.06			
100	16QAM	1	1	25.08	25.11	25.08	26.5	1.0	
100	64QAM	1	1	23.48	23.71	23.66	25.0	2.5	
100	256QAM	1	1	21.60	21.61	21.47	23.0	4.5	
Channel				646968	652000	657154	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	26.05	26.05	25.99	27.5	0.0	
Channel				646334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.01			
80	QPSK	1	109	26.03	26.06	25.99	27.5	0.0	
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	25.99	26.07	26.04	27.5	0.0	
Channel				646334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	25.97	26.04	26.06	27.5	0.0	
Channel				646000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	25.99	26.09	26.01	27.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3718.01	3840	3970.02			
20	QPSK	1	26	25.99	26.05	26.02	27.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3716	3840	3974			
10	QPSK	1	12	25.95	26.06	26.04	27.5	0.0	

Part27Q n77 Ant 5								
BW [MHz]	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	Pi2 BPSK	1	1	22.69			24.5	0.0
100	Pi2 BPSK	1	137	22.95				
100	Pi2 BPSK	1	271	23.01				
100	Pi2 BPSK	135	0	22.66			24.0	0.5
100	Pi2 BPSK	135	69	23.03			24.5	0.0
100	Pi2 BPSK	135	138	22.60			24.0	0.5
100	Pi2 BPSK	270	0	22.66			24.5	0.0
100	QPSK	1	1	23.07				
100	QPSK	1	137	23.05				
100	QPSK	1	271	23.05			23.5	1.0
100	QPSK	135	69	23.05			24.5	0.0
100	QPSK	135	138	22.02			23.5	1.0
100	QPSK	270	0	22.05			23.5	1.0
100	16QAM	1	1	21.99			23.5	1.0
100	64QAM	1	1	20.70			22.0	2.5
100	256QAM	1	1	18.61			20.0	4.5
Channel				633000	633334	633668	Tune-up limit	
Frequency (MHz)				3485	3500.01	3505.02	MPR	(dB)
90	QPSK	1	123	22.91	23.06	22.97	24.5	0.0
Channel				632668	633334	634000	Tune-up limit	
Frequency (MHz)				3480.02	3500.01	3510	MPR	(dB)
80	QPSK	1	109	22.99	23.02	23.02	24.5	0.0
Channel				632000	633334	634668	Tune-up limit	
Frequency (MHz)				3470	3500.01	3520.02	MPR	(dB)
60	QPSK	1	81	22.97	23.03	23.02	24.5	0.0
Channel				631668	633334	635000	Tune-up limit	
Frequency (MHz)				3475.02	3500.01	3525	MPR	(dB)
50	QPSK	1	67	22.93	23.00	23.03	24.5	0.0
Channel				631334	633334	635334	Tune-up limit	
Frequency (MHz)				3470.01	3500.01	3530.01	MPR	(dB)
40	QPSK	1	53	22.92	22.99	23.01	24.5	0.0
Channel				630968	633334	636000	Tune-up limit	
Frequency (MHz)				3465.02	3500.01	3540	MPR	(dB)
20	QPSK	1	26	22.95	23.04	23.00	24.5	0.0
Channel				630500	633334	636168	Tune-up limit	
Frequency (MHz)				3457.5	3500.01	3542.52	MPR	(dB)
15	QPSK	1	19	23.03	23.00	23.00	24.5	0.0
Channel				630334	633334	636334	Tune-up limit	
Frequency (MHz)				3455.01	3500.01	3545.01	MPR	(dB)
10	QPSK	1	12	22.96	23.00	23.03	24.5	0.0

Part27Q n77 HPUE Ant 5								
BW [MHz]	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	Pi2 BPSK	1	1	25.63			27.5	0.0
100	Pi2 BPSK	1	137	25.96				
100	Pi2 BPSK	1	271	25.97				
100	Pi2 BPSK	135	0	25.62			27.0	0.5
100	Pi2 BPSK	135	69	26.01			27.5	0.0
100	Pi2 BPSK	135	138	25.60			27.0	0.5
100	Pi2 BPSK	270	0	25.62			27.5	0.0
100	QPSK	1	1	26.09				
100	QPSK	1	137	26.05				
100	QPSK	1	271	26.05			26.5	1.0
100	QPSK	135	69	26.06			27.5	0.0
100	QPSK	135	138	24.99			26.5	1.0
100	QPSK	270	0	25.10			26.5	1.0
100	16QAM	1	1	25.00			26.5	1.0
100	64QAM	1	1	23.68			25.0	2.5
100	256QAM	1	1	21.62			23.0	4.5
Channel				633000	633334	633668	Tune-up limit	
Frequency (MHz)				3485	3500.01	3505.02	MPR	(dB)
90	QPSK	1	123	25.93	25.96	25.84	27.5	0.0
Channel				632668	633334	634000	Tune-up limit	
Frequency (MHz)				3480.02	3500.01	3510	MPR	(dB)
80	QPSK	1	109	25.98	25.93	25.87	27.5	0.0
Channel				632000	633334	634668	Tune-up limit	
Frequency (MHz)				3480	3500.01	3520.02	MPR	(dB)
60	QPSK	1	81	25.91	25.93	25.85	27.5	0.0
Channel				631668	633334	635000	Tune-up limit	
Frequency (MHz)				3475.02	3500.01	3525	MPR	(dB)
50	QPSK	1	67	25.92	25.94	25.89	27.5	0.0
Channel				631334	633334	635334	Tune-up limit	
Frequency (MHz)				3470.01	3500.01	3530.01	MPR	(dB)
40	QPSK	1	53	25.94	25.96	25.92	27.5	0.0
Channel				630968	633334	636000	Tune-up limit	
Frequency (MHz)				3465.02	3500.01	3540	MPR	(dB)
20	QPSK	1	26	25.90	25.94	25.95	27.5	0.0
Channel				630500	633334	636168	Tune-up limit	
Frequency (MHz)				3457.5	3500.01	3542.52	MPR	(dB)
15	QPSK	1	19	25.90	25.96	25.84	27.5	0.0
Channel				630334	633334	636334	Tune-up limit	
Frequency (MHz)				3455.01	3500.01	3545.01	MPR	(dB)
10	QPSK	1	12	25.92	25.93	25.92	27.5	0.0

Part27O n78 Ant 5								
BW [MHz]	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		
Frequency (MHz)				3750		3750	3750	
100	Pi2 BPSK	1	1	22.90			24.5	0.0
100	Pi2 BPSK	1	137	22.91				
100	Pi2 BPSK	1	271	22.89				
100	Pi2 BPSK	135	0	22.59			24.0	0.5
100	Pi2 BPSK	135	69	22.89			24.5	0.0
100	Pi2 BPSK	135	138	22.50			24.0	0.5
100	Pi2 BPSK	270	0	22.63			24.5	0.0
100	QPSK	1	1	23.00				
100	QPSK	1	137	22.98				
100	QPSK	1	271	22.98			23.5	1.0
100	QPSK	135	69	21.95			24.5	0.0
100	QPSK	135	138	22.53			23.5	1.0
100	QPSK	270	0	21.89			23.0	1.0
100	16QAM	1	1	21.90			23.5	1.0
100	64QAM	1	1	20.61			22.0	2.5
100	256QAM	1	1	18.51			20.0	4.5
Channel				649668	650000	650334	Tune-up limit	
Frequency (MHz)				3745.02	3750	3755.01	MPR	(dB)
90	QPSK	1	123	22.81	22.98	22.83	24.5	0.0
Channel				649334	650000	650668	Tune-up limit	
Frequency (MHz)				3740.01	3750	3760.02	MPR	(dB)
80	QPSK	1	109	22.88	22.96	22.91	24.5	0.0
Channel				649000	650000	651000	Tune-up limit	
Frequency (MHz)				3735	3750	3765	MPR	(dB)
70	QPSK	1	95	22.83	22.90	22.84	24.5	0.0
Channel				648668	650000	651334	Tune-up limit	
Frequency (MHz)				3730.02	3750	3770.01	MPR	(dB)
60	QPSK	1	81	22.77	22.96	22.85	24.5	0.0
Channel				648334	650000	651668	Tune-up limit	
Frequency (MHz)				3725.01	3750	3775.02	MPR	(dB)
50	QPSK	1	67	22.79	22.98	22.91	24.5	0.0
Channel				648000	650000	652000	Tune-up limit	
Frequency (MHz)				3720	3750	3780	MPR	(dB)
40	QPSK	1	53	22.82	22.96	22.92	24.5	0.0
Channel				647668	650000	652334	Tune-up limit	
Frequency (MHz)				3715.02	3750	3785.01	MPR	(dB)
30	QPSK	1	39	22.84	22.98	22.83	24.5	0.0
Channel				647334	650000	652668	Tune-up limit	
Frequency (MHz)				3710.01	3750	3790.02	MPR	(dB)
20	QPSK	1	26	22.86	22.98	22.90	24.5	0.0
Channel				647000	650000	653000	Tune-up limit	
Frequency (MHz)				3707.52	3750	3792.51	MPR	(dB)
15	QPSK	1	19	22.78	22.98	22.88	24.5	0.0
Channel				647000	650000	653000	Tune-up limit	
Frequency (MHz)				3705	3750	3795	MPR	(dB)
10	QPSK	1	12	22.73	22.94	22.83	24.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
40	PI2 BPSK	1	1	18.24	18.30	18.21	20.0	0.0			
40	PI2 BPSK	1	53	18.26	18.26	18.23					
40	PI2 BPSK	1	104	18.23	18.25	18.21					
40	PI2 BPSK	50	0	17.81	17.91	17.80					
40	PI2 BPSK	50	28	18.21	18.26	18.26	20.0	0.0			
40	PI2 BPSK	50	56	17.81	17.90	17.79	19.5	0.5			
40	PI2 BPSK	100	0	17.77	17.84	17.78	20.0	0.0			
40	QPSK	1	1	18.31	18.38	18.32					
40	QPSK	1	53	18.27	18.30	18.23					
40	QPSK	1	104	18.25	18.30	18.26					
40	QPSK	50	0	17.30	17.43	17.27	19.0	1.0			
40	QPSK	50	28	18.27	18.35	18.21	20.0	0.0			
40	QPSK	50	56	17.36	17.39	17.36	19.0	1.0			
40	QPSK	100	0	17.27	17.40	17.37	19.0	1.0			
40	16QAM	1	1	17.25	17.37	17.31					
40	64QAM	1	1	15.86	15.88	15.86	17.5	2.5			
40	256QAM	1	1	13.36	13.66	13.62	15.5	4.5			
Channel											
Frequency (MHz)											
30	QPSK	1	1	17.0702	15.9000	52.0996	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
30	QPSK	1	1	18.17	18.28	18.29	20.0	0.0			
Channel											
Frequency (MHz)											
25	QPSK	1	1	15.6504	51.9000	52.1496	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
25	QPSK	1	1	20.8222	51.9000	20.2078	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
25	QPSK	1	1	18.25	18.36	18.19	20.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	15.6000	51.9000	52.2000	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	1	2.990	2.990	2.990	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
15	QPSK	1	1	18.27	18.36	18.24	20.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	20.9751	51.9000	20.6149	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
15	QPSK	1	1	17.0702	51.9000	52.0996	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	1	18.20	18.33	18.28	20.0	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	18.34	18.37	18.31	20.0	0.0			
100	PI2 BPSK	1	137	18.36	18.37	18.25					
100	PI2 BPSK	1	271	18.31	18.34	18.30					
100	PI2 BPSK	135	0	17.82	17.92	17.86	19.5	0.5			
100	PI2 BPSK	135	69	18.32	18.36	18.34	20.0	0.0			
100	PI2 BPSK	135	138	17.85	17.98	17.82	19.5	0.5			
100	PI2 BPSK	270	0	17.87	17.93	17.85	20.0	0.0			
100	QPSK	1	1	18.42	18.45	18.33					
100	QPSK	1	107	18.36	18.39	18.23					
100	QPSK	1	271	18.31	18.46	18.31					
100	QPSK	135	0	17.41	17.49	17.34	19.0	1.0			
100	QPSK	135	69	18.36	18.45	18.25	20.0	0.0			
100	QPSK	135	138	17.44	17.50	17.46	19.0	1.0			
100	QPSK	270	0	17.35	17.46	17.44	19.0	1.0			
100	16QAM	1	1	17.27	17.47	17.35					
100	64QAM	1	1	15.97	15.99	15.88	17.5	2.5			
100	256QAM	1	1	13.31	13.92	13.92	15.5	4.5			
Channel											
Frequency (MHz)											
90	QPSK	1	123	18.25	18.29	18.33	20.0	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	109	18.19	18.38	18.36	20.0	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	81	18.21	18.39	18.35	20.0	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	67	18.28	18.36	18.34	20.0	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	53	18.24	18.37	18.39	20.0	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	39	18.24	18.40	18.38	20.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	26	18.18	18.31	18.34	20.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	19	18.23	18.31	18.30	20.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	12	18.25	18.35	18.32	20.0	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)											
40	PI2 BPSK	1	1	22.81	22.83	22.76	24.5	0.0			
40	PI2 BPSK	1	53	22.74	22.82	22.80					
40	PI2 BPSK	1	104	22.77	22.83	22.87					
40	PI2 BPSK	50	0	22.41	22.49	22.38	24.0	0.5			
40	PI2 BPSK	50	28	22.80	22.86	22.78	24.5	0.0			
40	PI2 BPSK	50	56	22.31	22.38	22.37	24.0	0.5			
40	PI2 BPSK	100	0	22.33	22.45	22.37	24.5	0.0			
40	QPSK	1	1	22.86	22.93	22.90					
40	QPSK	1	53	22.73	22.80	22.77					
40	QPSK	1	104	22.73	22.82	22.82					
40	QPSK	50	0	21.90	21.98	21.92	23.5	1.0			
40	QPSK	50	28	22.77	22.90	22.81	24.5	0.0			
40	QPSK	50	56	21.84	21.93	21.91	23.5	1.0			
40	QPSK	100	0	21.91	21.95	21.85	23.5	1.0			
40	16QAM	1	1	21.85	21.87	21.94					
40	64QAM	1	1	20.33	20.41	20.44	22.0	2.5			
40	256QAM	1	1	18.41	18.46	18.45	20.0	4.5			
Channel											
Frequency (MHz)											
30	QPSK	1	1	22.75	22.86	22.78	24.5	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	22.80	22.82	22.81	24.5	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	22.74	22.80	22.81	24.5	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	22.80	22.81	22.80	24.5	0.0			

Par270 n77 Ant 7											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 655000	Power Middle Ch. / Freq. 660000	Power High Ch. / Freq. 665000	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
100	PI2 BPSK	1	1	20.90	20.98	20.93	22.5	0.0			
100	PI2 BPSK	1	137	20.91	20.97	21.03					
100	PI2 BPSK	1	271	21.00	21.00	21.02					
100	PI2 BPSK	135	0	20.54	20.58	20.60	22.0	0.5			
100	PI2 BPSK	135	69	20.97	20.97	20.94	22.5	0.0			
100	PI2 BPSK	135	138	20.48	20.65	20.57	22.0	0.5			
100	PI2 BPSK	270	0	20.52	20.56	20.62	22.5	0.0			
100	QPSK	1	1	21.02	21.10	21.06					
100	QPSK	1	137	20.92	21.01	21.01					
100	QPSK	1	271	20.98	20.97	20.93	21.5	1.0			
100	QPSK	135	0	20.05	20.16	20.11					
100	QPSK	135	69	20.86	21.07	20.93	22.5	0.0			
100	QPSK	135	138	20.01	20.06	20.05	21.5	1.0			
100	QPSK	270	0	20.07	20.15	20.04	21.5	1.0			
100	16QAM	1	1	20.01	20.07	20.09					
100	64QAM	1	1	18.49	18.64	18.61	20.0	2.5			
100	256QAM	1	1	16.51	16.63	16.54	18.0	4.5			
Channel											
Frequency (MHz)											
90	QPSK	1	123	20.99	21.04	20.93	22.5	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	109	20.94	20.97	21.01	22.5	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	81	20.90	20.99	21.03	22.5	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	67	20.92	21.06	21.03	22.5	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	53	20.89	21.00	20.95	22.5	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	26	21.00	20.97	21.01	22.5	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	19	20.91	21.04	21.00	22.5	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	12	20.92	21.08	20.96	22.5	0.0			

Par270 n77 HPUE Ant 7											
BW [MHz]	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	23.98	23.95	23.89	25.5	0.0			
100	PI2 BPSK	1	137	23.85	23.96	24.03					
100	PI2 BPSK	1	271	24.00	24.02	24.04					
100	PI2 BPSK	135	0	23.59	23.61	23.60	25.0	0.5			
100	PI2 BPSK	135	69	23.98	24.03	23.92	25.5	0.0			
100	PI2 BPSK	135	138	23.48	23.70	23.55	25.0	0.5			
100	PI2 BPSK	270	0	23.49	23.58	23.61	25.5	0.0			
100	QPSK	1	1	24.03	24.12	24.06					
100	QPSK	1	137	23.95	23.95	24.04					
100	QPSK	1	271	23.97	23.93	23.93	24.5	1.0			
100	QPSK	135	0	23.05	23.10	23.05					
100	QPSK	135	69	23.84	24.04	23.94	25.5	0.0			
100	QPSK	135	138	23.01	23.08	23.04	24.5	1.0			
100	QPSK	270	0	23.05	23.10	23.04	24.5	1.0			
100	16QAM	1	1	22.97	23.13	23.12					
100	64QAM	1	1	21.46	21.66	21.61	23.0	2.5			
100	256QAM	1	1	19.51	19.52	19.54	21.0	4.5			
Channel											
Frequency (MHz)											
90	QPSK	1	123	24.00	24.05	23.90	25.5	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	109	23.96	24.02	23.93	25.5	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	81	23.90	23.99	23.92	25.5	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	67	24.05	24.02	23.97	25.5	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	53	24.03	24.09	23.88	25.5	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	26	24.03	24.06	23.96	25.5	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	19	24.00	24.04	23.82	25.5	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	12	24.02	24.01	23.94	25.5	0.0			

Part27Q n77 Ant 7									
BW [MHz]	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		2122		22.5	0.0	
100	PI2 BPSK	1	137						
100	PI2 BPSK	1	271		2120				
100	PI2 BPSK	135	0		2077		22.0	0.5	
100	PI2 BPSK	135	69		2116		22.5	0.0	
100	PI2 BPSK	135	138		2087		22.0	0.5	
100	PI2 BPSK	270	0		2081				
100	QPSK	1	1		2133				
100	QPSK	1	137		2125		22.5	0.0	
100	QPSK	1	271		2113				
100	QPSK	135	0		2041		21.5	1.0	
100	QPSK	135	69		2124		22.5	0.0	
100	QPSK	135	138		2028		21.5	1.0	
100	QPSK	270	0		2041				
100	16QAM	1	1		2024		21.5	1.0	
100	64QAM	1	1		1883		20.0	2.5	
100	256QAM	1	1		1675		18.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	633000	633334	633008	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	630000	633334	634068	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	631980	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	631754	633334	635234	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	631534	633334	635468	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	631217	633334	635150	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	631121	633334	635022	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	631122	633334	635011	Tune-up limit (dBm)	MPR (dB)	

Part27Q n77 HPUE Ant 7									
BW [MHz]	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	3500.01				
100	Pi2 BPSK	1	1	24.21					
100	Pi2 BPSK	1	137	24.19			25.5	0.0	
100	Pi2 BPSK	1	271	24.24					
100	Pi2 BPSK	135	0	23.83			25.0	0.5	
100	Pi2 BPSK	135	69	24.20			25.5	0.0	
100	Pi2 BPSK	135	138	23.85			25.0	0.5	
100	Pi2 BPSK	270	0	23.79					
100	QPSK	1	1	24.31					
100	QPSK	1	137	24.20			25.5	0.0	
100	QPSK	1	271	24.14					
100	QPSK	135	0	23.38			24.5	1.0	
100	QPSK	135	69	24.19			25.5	0.0	
100	QPSK	135	138	23.24			24.5	1.0	
100	QPSK	270	0	23.57					
100	16QAM	1	1	23.28			24.5	1.0	
100	64QAM	1	1	21.81			23.0	2.5	
100	256QAM	1	1	19.72			21.0	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	25.5	0.0	
90	QPSK	1	123	24.16	24.26	24.13	25.5	0.0	
Channel				630688	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3498.02	3500.01	3510	25.5	0.0	
80	QPSK	1	109	24.15	24.19	24.24	25.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3500.01	3520.02	25.5	0.0	
60	QPSK	1	81	24.22	24.17	24.19	25.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	25.5	0.0	
50	QPSK	1	67	24.22	24.20	24.22	25.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	25.5	0.0	
40	QPSK	1	53	24.17	24.21	24.19	25.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	25.5	0.0	
20	QPSK	1	26	24.23	24.26	24.18	25.5	0.0	
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52	25.5	0.0	
15	QPSK	1	19	24.21	24.25	24.24	25.5	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3458.01	3500.01	3545.01	25.5	0.0	
10	QPSK	1	12	24.16	24.20	24.13	25.5	0.0	

Part27O n78 Ant 7									
BW [MHz]	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)				650000	650000	650000			
100	Pi2 BPSK	1	1	3750	3750	3750			
100	Pi2 BPSK	1	137		20.84		22.5	0.0	
100	Pi2 BPSK	1	271		20.92				
100	Pi2 BPSK	135	0		20.52		22.0	0.5	
100	Pi2 BPSK	135	69		20.84		22.5	0.0	
100	Pi2 BPSK	135	138		20.55		22.0	0.5	
100	Pi2 BPSK	270	0		20.57				
100	QPSK	1	1		21.03				
100	QPSK	1	137		20.98		22.5	0.0	
100	QPSK	1	271		20.80				
100	QPSK	135	0		20.16		21.5	1.0	
100	QPSK	135	69		20.94		22.5	0.0	
100	QPSK	135	138		19.92		21.5	1.0	
100	QPSK	270	0		20.16				
100	16QAM	1	1		20.00		20.5	1.0	
100	64QAM	1	1		18.49		20.0	2.5	
100	256QAM	1	1		16.46		18.0	4.5	
Channel				649968	650000	650034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	22.5	0.0	
90	QPSK	1	123	20.91	20.85	20.82	22.5	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	22.5	0.0	
80	QPSK	1	109	20.88	20.88	20.84	22.5	0.0	
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	22.5	0.0	
70	QPSK	1	95	20.89	20.89	20.89	22.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	22.5	0.0	
60	QPSK	1	81	20.94	20.93	20.91	22.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	22.5	0.0	
50	QPSK	1	67	20.90	20.84	20.85	22.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	22.5	0.0	
40	QPSK	1	53	20.92	20.94	20.90	22.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	22.5	0.0	
30	QPSK	1	39	20.92	20.89	20.89	22.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	22.5	0.0	
20	QPSK	1	26	20.94	20.87	20.89	22.5	0.0	
Channel				647000	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	22.5	0.0	
15	QPSK	1	19	20.94	20.86	20.91	22.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	22.5	0.0	
10	QPSK	1	12	20.95	20.93	20.95	22.5	0.0	

Part27O n78 HPUE Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit	MPR	
Channel									
Frequency (MHz)				3750	3750	3750			
100	Pi2 BPSK	1	1		23.91			25.5	0.0
100	Pi2 BPSK	1	137		23.77				
100	Pi2 BPSK	1	271		23.84				
100	Pi2 BPSK	135	0		23.49		25.0	0.5	
100	Pi2 BPSK	135	69		23.73		25.5	0.0	
100	Pi2 BPSK	135	138		23.46		25.0	0.5	
100	Pi2 BPSK	270	0		23.47				
100	QPSK	1	1		23.97				
100	QPSK	1	137		23.92		25.5	0.0	
100	QPSK	1	271		23.71				
100	QPSK	135	0		23.07		24.5	1.0	
100	QPSK	135	69		23.87		25.5	0.0	
100	QPSK	135	138		22.84		24.5	1.0	
100	QPSK	270	0		23.08				
100	16QAM	1	1		22.99		24.5	1.0	
100	64QAM	1	1		21.45		23.0	2.5	
100	256QAM	1	1		19.46		21.0	4.5	
Channel				648668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	123	23.83	23.91	23.85	25.5	0.0	
Channel				648334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3748.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	109	23.88	23.91	23.89	25.5	0.0	
Channel				648000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
70	QPSK	1	95	23.86	23.93	23.97	25.5	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	81	23.91	23.93	23.91	24.5	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	67	23.84	23.91	23.80	25.5	0.0	
Channel				648800	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3780.01	(dBm)	(dB)	
40	QPSK	1	53	23.84	23.91	23.84	25.5	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3735.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	39	23.85	23.94	23.87	25.5	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	25	23.84	23.94	23.82	25.5	0.0	
Channel				647800	650000	652315	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	19	23.83	23.84	23.83	25.5	0.0	
Channel				647400	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				6470.02	3750	3792.01	(dBm)	(dB)	
10	QPSK	1	12	23.84	23.93	23.88	25.5	0.0	

Part27Q 78 Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	
				633334	633334		
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1		3500.01		
100	PQ2 BPSK	1	137	21.20			
100	PQ2 BPSK	1	271	21.15			22.5
100	PQ2 BPSK	1	271	21.24			
100	PQ2 BPSK	135	0	20.78			22.5
100	PQ2 BPSK	135	69	21.16			22.5
100	PQ2 BPSK	135	138	20.84			22.5
100	PQ2 BPSK	270	0	20.89			22.5
100	QPSK	1	1	21.35			
100	QPSK	1	137	21.30			22.5
100	QPSK	1	271	21.14			0.0
100	QPSK	135	0	20.48			21.5
100	QPSK	135	69	21.29			22.5
100	QPSK	135	138	20.20			21.5
100	QPSK	270	0	20.45			21.5
100	16QAM	1	1	20.32			21.5
100	64QAM	1	1	18.76			20.0
100	256QAM	1	1	18.72			18.0
Channel				633300	633334	633668	
Frequency (MHz)				3485	3500.01	3505.02	
90	QPSK	1	123	21.16	21.20	21.09	22.5
Channel				632068	633334	634000	
Frequency (MHz)				3480.02	3500.01	3510	
80	QPSK	1	109	21.18	21.19	21.14	22.5
Channel				632334	633334	634334	
Frequency (MHz)				3485.01	3500.01	3515.01	
70	QPSK	1	96	21.21	21.10	21.07	22.5
Channel				632000	633334	634668	
Frequency (MHz)				3480	3500.01	3500.02	
60	QPSK	1	81	21.18	21.10	21.16	22.5
Channel				631668	633334	635000	
Frequency (MHz)				3475.02	3500.01	3525	
50	QPSK	1	67	21.17	21.12	21.16	22.5
Channel				631334	633334	635334	
Frequency (MHz)				3470.01	3500.01	3530.01	
40	QPSK	1	53	21.24	21.16	21.11	22.5
Channel				631000	633334	635668	
Frequency (MHz)				3465	3500.01	3535.02	
30	QPSK	1	39	21.24	21.10	21.08	22.5
Channel				630500	633334	636000	
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	26	21.26	21.12	21.10	22.5
Channel				630000	633334	636334	
Frequency (MHz)				3452.5	3500.01	3542.52	
15	QPSK	1	19	21.15	21.09	21.14	22.5
Channel				630334	633334	636334	
Frequency (MHz)				3450.01	3500.01	3540.01	
10	QPSK	1	12	21.26	21.10	21.13	22.5

Part27Q 78 HPUE Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	
				633334	633334		
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1		3500.01		
100	PQ2 BPSK	1	137	24.19			
100	PQ2 BPSK	1	271	24.16			25.5
100	PQ2 BPSK	1	271	24.22			
100	PQ2 BPSK	135	0	23.79			25.0
100	PQ2 BPSK	135	69	24.16			25.5
100	PQ2 BPSK	135	138	23.78			25.0
100	PQ2 BPSK	270	0	23.89			25.0
100	QPSK	1	1	24.39			
100	QPSK	1	137	24.34			25.5
100	QPSK	1	271	24.17			0.0
100	QPSK	135	0	23.48			24.5
100	QPSK	135	69	24.25			25.5
100	QPSK	135	138	23.15			24.5
100	QPSK	270	0	23.45			24.5
100	16QAM	1	1	23.27			24.5
100	64QAM	1	1	21.71			23.0
100	256QAM	1	1	19.72			21.0
Channel				633300	633334	633668	
Frequency (MHz)				3485	3500.01	3505.02	
90	QPSK	1	123	24.16	24.20	24.05	25.5
Channel				632068	633334	634000	
Frequency (MHz)				3480.02	3500.01	3510	
80	QPSK	1	109	24.15	24.17	24.14	25.5
Channel				632334	633334	634334	
Frequency (MHz)				3485.01	3500.01	3515.01	
70	QPSK	1	96	24.10	24.15	24.05	25.5
Channel				632000	633334	634668	
Frequency (MHz)				3480	3500.01	3500.02	
60	QPSK	1	81	24.18	24.16	24.15	25.5
Channel				631668	633334	635000	
Frequency (MHz)				3475.02	3500.01	3525	
50	QPSK	1	67	24.20	24.26	24.14	25.5
Channel				631334	633334	635334	
Frequency (MHz)				3470.01	3500.01	3530.01	
40	QPSK	1	53	24.16	24.17	24.08	25.5
Channel				631000	633334	635668	
Frequency (MHz)				3465	3500.01	3535.02	
30	QPSK	1	39	24.10	24.22	24.09	25.5
Channel				630500	633334	636000	
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	26	24.21	24.19	24.10	25.5
Channel				630000	633334	636334	
Frequency (MHz)				3452.5	3500.01	3542.52	
15	QPSK	1	19	24.18	24.15	24.12	25.5
Channel				630334	633334	636334	
Frequency (MHz)				3450.01	3500.01	3540.01	
10	QPSK	1	12	24.12	24.20	24.07	25.5

n2 Ant 1 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	24.5	0.0
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	22.97	22.94	22.90		
20	PI2 BPSK	1	53	22.99	23.02	22.96	24.0	0.5
20	PI2 BPSK	1	104	22.79	22.97	22.81		
20	PI2 BPSK	50	0	22.51	22.58	22.45		
20	PI2 BPSK	50	28	22.99	23.02	22.94	24.0	0.5
20	PI2 BPSK	50	56	22.43	22.56	22.43		
20	PI2 BPSK	100	0	22.46	22.59	22.51		
20	QPSK	1	1	22.93	23.07	22.86	24.5	0.0
20	QPSK	1	53	22.99	23.01	22.94		
20	QPSK	1	104	22.79	22.88	22.84		
20	QPSK	50	0	21.96	22.08	22.03	23.5	1.0
20	QPSK	50	28	22.92	23.05	22.91		
20	QPSK	50	56	22.00	22.07	22.05		
20	QPSK	100	0	22.06	22.12	22.03	23.5	1.0
20	16QAM	1	1	21.76	21.79	21.75		
20	64QAM	1	1	20.29	20.40	20.35		
20	256QAM	1	1	18.90	19.03	18.97	20.0	4.5
Channel				371000	376000	380000		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	22.87	22.93	22.93	24.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1900	1900	1900		
10	QPSK	1	1	22.84	23.01	22.90		
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5		
5	QPSK	1	1	22.89	23.02	22.86		

Reduced Power Mode for Main PA DSH1

n5 Ant 1 DSI1

BW [MHz]	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	167500	167800	25.7	0.0
Frequency (MHz)				834	836.5	838		
20	PI2 BPSK	1	1	24.20	24.27	24.15		
20	PI2 BPSK	1	53	24.39	24.45	24.36	25.2	0.5
20	PI2 BPSK	1	104	24.35	24.47	24.34		
20	PI2 BPSK	50	0	23.96	24.09	23.99		
20	PI2 BPSK	50	28	24.39	24.45	24.31	25.7	0.0
20	PI2 BPSK	50	56	24.01	24.09	24.01		
20	PI2 BPSK	100	0	24.03	24.08	23.98		
20	QPSK	1	1	24.46	24.58	24.50	25.7	0.0
20	QPSK	1	53	24.32	24.43	24.35		
20	QPSK	1	104	24.31	24.38	24.29		
20	QPSK	50	0	23.48	23.61	23.54	24.7	1.0
20	QPSK	50	28	24.39	24.47	24.38		
20	QPSK	50	56	23.06	23.11	23.09		
20	QPSK	100	0	23.55	23.65	23.52	24.7	1.0
20	16QAM	1	1	23.10	23.22	23.18		
20	64QAM	1	1	21.70	21.81	21.77		
20	256QAM	1	1	20.31	20.42	20.36	21.2	4.5
Channel				165300	165900	166500		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.39	24.51	24.38	25.7	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				820	835	844		
10	QPSK	1	1	24.39	24.50	24.45		
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.45	24.48	24.46		

n7 Ant 1 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	25.0	0.0
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	23.38	23.45	23.37		
50	PI2 BPSK	1	135	23.38	23.44	23.41	25.0	0.0
50	PI2 BPSK	1	268	23.31	23.33	23.19		
50	PI2 BPSK	135	0	22.90	23.00	22.90		
50	PI2 BPSK	135	68	23.35	23.40	23.35	24.5	0.5
50	PI2 BPSK	135	135	23.02	23.15	23.13		
50	PI2 BPSK	270	0	22.94	23.04	22.96		
50	QPSK	1	1	23.38	23.41	23.35	25.0	0.0
50	QPSK	1	135	23.33	23.46	23.34		
50	QPSK	1	268	23.49	23.52	23.45		
50	QPSK	135	0	22.44	22.50	22.38	24.0	1.0
50	QPSK	135	68	23.34	23.42	23.38		
50	QPSK	135	135	22.54	22.63	22.57		
50	QPSK	270	0	22.50	22.58	22.45	24.0	1.0
50	16QAM	1	1	22.12	22.26	22.12		
50	64QAM	1	1	20.75	20.85	20.81		
50	256QAM	1	1	19.04	19.03	19.00	20.5	4.5
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	23.38	23.48	23.37	25.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.44	23.46	23.39		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.38	23.40	23.38	25.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	23.37	23.40	23.35	25.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.45	23.49	23.32	25.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.40	23.40	23.40	25.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.46	23.47	23.40	25.0	0.0

n66 Ant 1 DSI1									
BW [MHz]	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	25.5	0.0	
Frequency (MHz)				1730	1745	1760			
40	Pl2 BPSK	1	1	23.64	23.75	23.85	25.5	0.0	
40	Pl2 BPSK	1	108	23.53	23.67	23.85			
40	Pl2 BPSK	1	214	23.54	23.64	23.81			
40	Pl2 BPSK	108	0	23.10	23.17	23.03	25.0	0.5	
40	Pl2 BPSK	108	54	23.55	23.86	23.52	25.5	0.0	
40	Pl2 BPSK	108	108	23.13	23.22	23.09	25.0	0.5	
40	Pl2 BPSK	216	0	23.19	23.28	23.17	25.0	0.5	
40	QPSK	1	1	23.69	23.76	23.74	25.5	0.0	
40	QPSK	1	108	23.59	23.82	23.96			
40	QPSK	1	214	23.54	23.59	23.54			
40	QPSK	108	0	22.54	22.60	22.53	24.5	1.0	
40	QPSK	108	54	23.58	23.82	23.51	25.5	0.0	
40	QPSK	108	108	22.65	22.70	22.66	24.5	1.0	
40	QPSK	216	0	22.65	22.67	22.63	24.5	1.0	
40	16QAM	1	1	22.82	22.84	22.56	24.5	1.0	
40	64QAM	1	1	21.03	21.15	21.04	23.0	2.5	
40	256QAM	1	1	19.40	19.48	19.37	21.0	4.5	
Channel				345000	349000	353000	25.5	0.0	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	23.58	23.74	23.62	25.5	0.0	
Channel				344500	349000	353500	25.5	0.0	
Frequency (MHz)				1722.5	1745	1747.5			
25	QPSK	1	1	23.63	23.69	23.61	25.5	0.0	
Channel				344000	349000	354000	25.5	0.0	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	23.65	23.89	23.72	25.5	0.0	
Channel				343500	349000	354500	25.5	0.0	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	23.61	23.73	23.63	25.5	0.0	
Channel				343000	349000	355000	25.5	0.0	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	23.59	23.67	23.66	25.5	0.0	
Channel				342500	349000	355500	25.5	0.0	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	23.65	23.72	23.66	25.5	0.0	

n7 Ant 3 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	22.5	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	21.84	21.87	21.84		
50	PI/2 BPSK	1	135	21.75	21.83	21.73	22.5	0.0
50	PI/2 BPSK	1	268	21.79	21.87	21.83		
50	PI/2 BPSK	135	0	21.76	21.80	21.76		
50	PI/2 BPSK	135	68	21.76	21.90	21.76	22.5	0.0
50	PI/2 BPSK	135	135	21.81	21.87	21.85		
50	PI/2 BPSK	270	0	21.82	21.87	21.77		
50	QPSK	1	1	21.82	21.85	21.79	22.5	0.0
50	QPSK	1	135	21.76	21.81	21.79		
50	QPSK	1	268	21.86	21.91	21.87		
50	QPSK	135	0	21.80	21.83	21.77	22.5	0.0
50	QPSK	135	68	21.84	21.86	21.80		
50	QPSK	135	135	21.75	21.84	21.77		
50	QPSK	270	0	21.86	21.89	21.80	22.5	0.0
50	16QAM	1	1	21.80	21.82	21.73		
50	64QAM	1	1	21.32	21.37	21.34		
50	256QAM	1	1	19.33	19.37	19.28	20.0	2.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	21.74	21.90	21.77		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	21.76	21.90	21.86		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	21.82	21.89	21.85		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	21.81	21.89	21.83		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	21.84	21.89	21.80		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	21.78	21.89	21.76		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.80	21.87	21.77		

n2 Ant 4 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PV2 BPSK	1	1	14.54	14.55	14.49		
20	PV2 BPSK	1	53	14.54	14.56	14.48	16.0	0.0
20	PV2 BPSK	1	104	14.53	14.51	14.53		
20	PV2 BPSK	50	0	14.51	14.57	14.51	16.0	0.0
20	PV2 BPSK	50	28	14.46	14.56	14.54	16.0	0.0
20	PV2 BPSK	50	56	14.52	14.52	14.48		
20	PV2 BPSK	100	0	14.50	14.54	14.48	16.0	0.0
20	QPSK	1	1	14.53	14.56	14.53		
20	QPSK	1	53	14.46	14.54	14.46	16.0	0.0
20	QPSK	1	104	14.51	14.55	14.46		
20	QPSK	50	0	14.50	14.54	14.52	16.0	0.0
20	QPSK	50	28	14.53	14.55	14.51	16.0	0.0
20	QPSK	50	56	14.53	14.54	14.52		
20	QPSK	100	0	14.56	14.56	14.54	16.0	0.0
20	16QAM	1	1	14.53	14.53	14.48	16.0	0.0
20	64QAM	1	1	14.48	14.51	14.54	16.0	0.0
20	256QAM	1	1	14.52	14.51	14.56	16.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1880	1902.5		
15	QPSK	1	1	14.51	14.57	14.48	16.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1860	1905		
10	QPSK	1	1	14.50	14.50	14.46	16.0	0.0
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5		
5	QPSK	1	1	14.43	14.58	14.47	16.0	0.0

n5 Ant 4 DSI1

BW [MHz]	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	167200	167600		
Frequency (MHz)				834	836.5	839		
20	PV2 BPSK	1	1	23.18	23.20	23.13		
20	PV2 BPSK	1	53	23.13	23.21	23.15	24.2	0.0
20	PV2 BPSK	1	104	23.25	23.26	23.11		
20	PV2 BPSK	50	0	23.23	23.23	23.18	24.2	0.0
20	PV2 BPSK	50	28	23.16	23.22	23.20	24.2	0.0
20	PV2 BPSK	50	56	23.19	23.24	23.19		
20	PV2 BPSK	100	0	23.17	23.25	23.12	24.2	0.0
20	QPSK	1	1	23.21	23.27	23.16		
20	QPSK	1	53	23.23	23.26	23.15	24.2	0.0
20	QPSK	1	104	23.20	23.23	23.22		
20	QPSK	50	0	23.24	23.21	23.12	24.2	0.0
20	QPSK	50	28	23.23	23.26	23.20		
20	QPSK	50	56	23.20	23.21	23.21	24.2	0.0
20	QPSK	100	0	23.21	23.23	23.12		
20	16QAM	1	1	23.16	23.26	23.19	24.2	0.0
20	64QAM	1	1	22.25	22.31	22.16	23.2	1.0
20	256QAM	1	1	20.13	20.30	20.19	21.2	3.0
Channel				166300	167200	167500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.18	23.26	23.12	24.2	0.0
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				830	836.5	844		
10	QPSK	1	1	23.10	23.20	23.09	24.2	0.0
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.15	23.26	23.12	24.2	0.0

n7 Ant 4 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PV2 BPSK	1	1	17.48	17.47	17.46		
50	PV2 BPSK	1	135	17.51	17.51	17.43	19.0	0.0
50	PV2 BPSK	1	268	17.53	17.52	17.40		
50	PV2 BPSK	135	0	17.48	17.52	17.50	19.0	0.0
50	PV2 BPSK	135	68	17.49	17.54	17.47	19.0	0.0
50	PV2 BPSK	135	135	17.46	17.54	17.50		
50	PV2 BPSK	270	0	17.47	17.53	17.48	19.0	0.0
50	QPSK	1	1	17.42	17.52	17.46		
50	QPSK	1	135	17.49	17.53	17.49	19.0	0.0
50	QPSK	1	268	17.51	17.58	17.50		
50	QPSK	135	0	17.49	17.48	17.44	19.0	0.0
50	QPSK	135	68	17.50	17.51	17.48	19.0	0.0
50	QPSK	135	135	17.48	17.50	17.44		
50	QPSK	270	0	17.47	17.54	17.43	19.0	0.0
50	16QAM	1	1	17.43	17.52	17.47	19.0	0.0
50	64QAM	1	1	17.46	17.50	17.43	19.0	0.0
50	256QAM	1	1	17.52	17.47	17.45	19.0	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	17.49	17.57	17.47	19.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	17.49	17.54	17.49	19.0	0.0
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	17.40	17.57	17.45	19.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	17.49	17.51	17.38	19.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	17.42	17.55	17.41	19.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	17.48	17.54	17.44	19.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	17.45	17.57	17.39	19.0	0.0

n38 Ant 1 DSI1									
BW [MHz]	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	25.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	23.29	23.35	23.35	25.0	0.0	
40	PI/2 BPSK	1	53	23.31	23.36	23.33			
40	PI/2 BPSK	1	104	23.32	23.40	23.33	24.5	0.5	
40	PI/2 BPSK	50	0	22.95	22.93	22.89			
40	PI/2 BPSK	50	28	23.33	23.37	23.38	25.0	0.0	
40	PI/2 BPSK	50	56	22.87	22.98	22.84			
40	PI/2 BPSK	100	0	22.91	22.97	22.95	24.5	0.5	
40	QPSK	1	1	23.42	23.47	23.40			
40	QPSK	1	53	23.38	23.39	23.31	25.0	0.0	
40	QPSK	1	104	23.33	23.40	23.30			
40	QPSK	50	0	22.43	22.43	22.42	24.0	1.0	
40	QPSK	50	28	23.38	23.42	23.30			
40	QPSK	50	56	22.47	22.50	22.39	24.0	1.0	
40	QPSK	100	0	22.37	22.53	22.43			
40	16QAM	1	1	22.44	22.48	22.35	24.0	1.0	
40	64QAM	1	1	20.92	20.95	20.86			
40	256QAM	1	1	18.88	18.99	18.91	20.5		
Channel				517002	519000	520998	25.0	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	23.40	23.43	23.29	25.0	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2582.52	2595	2607.48	25.0	0.0	
25	QPSK	1	1	23.32	23.42	23.35			
Channel				516000	519000	522000	25.0	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	23.34	23.37	23.33	25.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49	25.0	MPR (dB)	
15	QPSK	1	1	23.39	23.43	23.33			
Channel				515004	519000	522996	25.0	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	23.32	23.41	23.27	25.0		

n41 Ant 1 DSI1									
BW [MHz]	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	23.35	23.45	23.41	25.0	0.0	
100	PI/2 BPSK	1	137	23.40	23.35	23.35			
100	PI/2 BPSK	1	271	23.35	23.47	23.35	24.5	0.5	
100	PI/2 BPSK	135	0	23.01	22.95	22.98			
100	PI/2 BPSK	135	69	23.41	23.43	23.45	25.0	0.0	
100	PI/2 BPSK	135	138	22.96	23.08	22.91			
100	PI/2 BPSK	270	0	22.91	23.06	23.00	24.5	0.5	
100	QPSK	1	1	23.51	23.53	23.48			
100	QPSK	1	137	23.44	23.44	23.37	25.0	0.0	
100	QPSK	1	271	23.40	23.46	23.38			
100	QPSK	135	0	22.45	22.53	22.42	24.0	1.0	
100	QPSK	135	69	23.43	23.51	23.31			
100	QPSK	135	138	22.48	22.51	22.43	25.0	0.0	
100	QPSK	270	0	22.45	22.56	22.44			
100	16QAM	1	1	22.47	22.47	22.41	24.0	1.0	
100	64QAM	1	1	20.95	21.05	20.88			
100	256QAM	1	1	18.94	19.06	18.96	20.5		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.48	23.47	23.39	25.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	23.48	23.51	23.34			
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.45	23.47	23.39	25.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.98	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	23.42	23.40	23.46			
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.40	23.51	23.44	25.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.48	23.49	23.40			
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.44	23.41	23.46	25.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.38	23.45	23.43			
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	23.48	23.43	23.40	25.0	0.0	

n48 Ant 2 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	646332			
Frequency (MHz)				3520	3624.99	3680			
40	PI2 BPSK	1	1	17.20	17.24	17.21			
40	PI2 BPSK	1	53	17.12	17.23	17.18	18.5	0.0	
40	PI2 BPSK	1	104	17.15	17.22	17.17			
40	PI2 BPSK	50	0	17.15	17.22	17.11	18.5	0.0	
40	PI2 BPSK	50	28	17.21	17.25	17.16	18.5	0.0	
40	PI2 BPSK	50	56	17.16	17.16	17.15	18.5	0.0	
40	PI2 BPSK	100	0	17.14	17.25	17.19			
40	QPSK	1	1	17.21	17.27	17.24			
40	QPSK	1	53	17.16	17.26	17.19			
40	QPSK	1	104	17.18	17.24	17.14	18.5	0.0	
40	QPSK	50	0	17.12	17.18	17.16	17.5	1.0	
40	QPSK	50	28	17.12	17.20	17.18	18.5	0.0	
40	QPSK	50	56	17.17	17.19	17.19	17.5	1.0	
40	QPSK	100	0	17.17	17.24	17.15			
40	16QAM	1	1	17.14	17.23	17.16	18.5	0.0	
40	64QAM	1	1	16.73	16.73	16.69	18.0	0.5	
40	256QAM	1	1	14.03	14.73	14.68	15.0	2.5	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	17.18	17.23	17.17	18.5	0.0	
Channel				637334	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3568.01	3624.99	3680.01			
20	QPSK	1	1	17.11	17.24	17.22	18.5	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3652.48			
15	QPSK	1	1	17.20	17.21	17.23	18.5	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565	3624.99	3695			
10	QPSK	1	1	17.21	17.21	17.13	18.5	0.0	

Par270 n77 Ant 2 DSI1									
BW [MHz]	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	PI2 BPSK	1	1	17.89	17.94	17.92			
100	PI2 BPSK	1	137	17.87	17.95	17.81	19.5	0.0	
100	PI2 BPSK	1	271	17.94	17.96	17.90			
100	PI2 BPSK	135	0	17.48	17.49	17.47	19.0	0.5	
100	PI2 BPSK	135	69	17.91	17.88	17.92	19.5	0.0	
100	PI2 BPSK	135	138	17.49	17.56	17.43	19.0	0.5	
100	PI2 BPSK	270	0	17.49	17.51	17.44			
100	QPSK	1	1	17.99	18.02	17.95			
100	QPSK	1	137	17.90	17.86	17.88	19.5	0.0	
100	QPSK	1	271	17.91	17.95	17.85			
100	QPSK	135	0	16.95	17.05	16.94	18.5	1.0	
100	QPSK	135	69	17.86	17.96	17.90	19.5	0.0	
100	QPSK	135	138	17.00	16.99	16.96	18.5	1.0	
100	QPSK	270	0	16.96	17.00	16.92			
100	16QAM	1	1	16.96	16.98	16.90	18.5	1.0	
100	64QAM	1	1	15.49	15.49	15.44	17.0	2.5	
100	256QAM	1	1	13.54	13.48	13.39	15.0	4.5	
Channel				646668	652000	657334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	17.86	17.88	17.83	19.5	0.0	
Channel				646334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3950.01			
80	QPSK	1	109	17.90	17.95	17.81	19.5	0.0	
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	17.89	17.88	17.83	19.5	0.0	
Channel				646334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	17.92	17.89	17.86	19.5	0.0	
Channel				646000	652000	658000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	17.93	17.93	17.86	19.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	17.85	17.95	17.79	19.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	17.85	17.91	17.86	19.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	17.90	17.92	17.87	19.5	0.0	

Par270 n77 HPUE Ant 2 DSI1									
BW [MHz]	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	PI2 BPSK	1	1	18.94	19.04	18.91			
100	PI2 BPSK	1	137	18.88	19.07	18.99	20.5	0.0	
100	PI2 BPSK	1	271	18.90	19.09	18.91			
100	PI2 BPSK	135	0	18.94	19.07	19.00	20.5	0.0	
100	PI2 BPSK	135	69	18.86	19.07	19.00	20.5	0.0	
100	PI2 BPSK	135	138	18.94	19.04	18.97	20.5	0.0	
100	PI2 BPSK	270	0	18.97	19.02	18.99			
100	QPSK	1	1	18.94	19.10	18.97			
100	QPSK	1	137	18.89	18.99	18.95			
100	QPSK	1	271	18.91	19.00	19.02	20.5	0.0	
100	QPSK	135	0	18.90	19.02	18.96	19.5	1.0	
100	QPSK	135	69	18.92	19.05	19.01	20.5	0.0	
100	QPSK	135	138	18.92	18.98	18.97	19.5	1.0	
100	QPSK	270	0	18.96	19.03	19.01			
100	16QAM	1	1	18.95	19.05	18.95	20.5	0.0	
100	64QAM	1	1	18.43	18.47	18.39	20.0	0.5	
100	256QAM	1	1	16.51	16.45	16.37	18.0	2.5	
Channel				646668	652000	657334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	18.88	19.09	18.91	20.5	0.0	
Channel				646334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.01			
80	QPSK	1	109	18.85	19.07	18.88	20.5	0.0	
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	18.94	19.04	18.99	20.5	0.0	
Channel				646334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	18.93	19.01	18.96	20.5	0.0	
Channel				646000	652000	658000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	18.87	19.00	18.97	20.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	18.91	19.07	18.86	20.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	18.90	19.02	18.91	20.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3974			
10	QPSK	1	12	18.94	19.05	18.94	20.5	0.0	



Part270 n78 HPUE Ant 2 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	3750	3750	3750			
100	Pi2 BPSK	1	137		18.68				
100	Pi2 BPSK	1	271		18.62		20.0	0.0	
100	Pi2 BPSK	135	0		18.66		20.0	0.0	
100	Pi2 BPSK	135	69		18.64		20.0	0.0	
100	Pi2 BPSK	135	138		18.66		20.0	0.0	
100	Pi2 BPSK	270	0		18.67				
100	QPSK	1	1		18.69				
100	QPSK	1	137		18.60		20.0	0.0	
100	QPSK	1	271		18.62				
100	QPSK	135	0		18.63		20.0	0.0	
100	QPSK	135	69		18.66		20.0	0.0	
100	QPSK	135	138		18.65		20.0	0.0	
100	QPSK	270	0		18.65				
100	16QAM	1	1		18.68		20.0	0.0	
100	64QAM	1	1		18.63		20.0	0.0	
100	256QAM	1	1		18.62		18.0	2.0	
Channel									
90	QPSK	1	123	646668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
90	QPSK	1	123	18.47	18.47	18.35	20.0	0.0	
Channel									
80	QPSK	1	109	640334	650000	650068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
80	QPSK	1	109	3745.01	3750	3750.02	20.0	0.0	
Channel									
70	QPSK	1	96	646000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
70	QPSK	1	96	18.44	18.55	18.38	20.0	0.0	
Channel									
60	QPSK	1	81	646668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
60	QPSK	1	81	3750.02	3750	3750.01	20.0	0.0	
Channel									
50	QPSK	1	67	643334	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
50	QPSK	1	67	18.43	18.50	18.36	20.0	0.0	
Channel									
40	QPSK	1	53	646000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
40	QPSK	1	53	3755.01	3750	3755.02	20.0	0.0	
Channel									
30	QPSK	1	39	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	39	18.40	18.54	18.40	20.0	0.0	
Channel									
20	QPSK	1	26	647334	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	26	3750.01	3750	3750.02	20.0	0.0	
Channel									
15	QPSK	1	19	647168	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	19	18.47	18.47	18.38	20.0	0.0	
Channel									
10	QPSK	1	12	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	12	18.39	18.55	18.37	20.0	0.0	

Part27Q 78 Ant 2 DSI1									
BW [MHz]	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)				3000.01					
100	Pi2 BPSK	1	1		18.14				
100	Pi2 BPSK	1	137		18.14		19.5		0.0
100	Pi2 BPSK	1	271		18.18				
100	Pi2 BPSK	135	0		17.74		19.0	0.5	
100	Pi2 BPSK	135	69		18.13		19.5	0.0	
100	Pi2 BPSK	135	138		17.69		19.0	0.5	
100	Pi2 BPSK	270	0		17.69				
100	QPSK	1	1		18.28				
100	QPSK	1	137		18.22		19.5	0.0	
100	QPSK	1	271		18.18				
100	QPSK	135	0		17.21		19.5	0.0	
100	QPSK	135	69		18.22		19.5	0.0	
100	QPSK	135	138		17.27		19.5	0.0	
100	QPSK	270	0		17.27				
100	16QAM	1	1		17.22		18.5	1.0	
100	64QAM	1	1		15.72		17.0	2.5	
100	256QAM	1	1		13.73		15.0	4.5	
Channel									
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	3485	3000.01	3005.02	19.5	0.0	
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	3485.02	3000.01	3010.01	19.5	0.0	
Channel									
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	96	3485.01	3000.01	3015.01	19.5	0.0	
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	81	3485	3000.01	3020.02	19.5	0.0	
Channel									
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	3475.02	3000.01	3025	19.5	0.0	
Channel									
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	3470.01	3000.01	3030.01	19.5	0.0	
Channel									
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	39	3465	3000.01	3035.02	19.5	0.0	
Channel									
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	3460.02	3000.01	3040	19.5	0.0	
Channel									
Frequency (MHz)				630334	633334	636368	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	3455	3000.01	3045.02	19.5	0.0	
Channel									
Frequency (MHz)				630000	633334	636868	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	3450.01	3000.01	3045.01	19.5	0.0	

Part27Q 78 HPUE Ant 2 DSI1									
BW [MHz]	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)				633334	3000.01				
100	Pi2 BPSK	1	1		18.62		20.0	0.0	
100	Pi2 BPSK	1	137		18.63				
100	Pi2 BPSK	1	271		18.60				
100	Pi2 BPSK	135	0		18.62				
100	Pi2 BPSK	135	69		18.60		20.0	0.0	
100	Pi2 BPSK	135	138		18.63		20.0	0.0	
100	Pi2 BPSK	270	0		18.77				
100	QPSK	1	1		18.65				
100	QPSK	1	137		18.66		20.0	0.0	
100	QPSK	1	271		18.62				
100	QPSK	135	0		18.62		20.0	0.0	
100	QPSK	135	69		18.64		20.0	0.0	
100	QPSK	135	138		18.63		20.0	0.0	
100	QPSK	270	0		18.61				
100	16QAM	1	1		18.76		20.0	0.0	
100	64QAM	1	1		18.74		20.0	0.0	
100	256QAM	1	1		16.77		18.0	2.0	
Channel				633500	633334	633668	Tune-up limit		MPR
Frequency (MHz)				3495	3000.01	3508.02	(dBm)		(dB)
80	QPSK	1	123		18.61	18.60			
Channel				633598	633334	634000	Tune-up limit		MPR
Frequency (MHz)				3490.02	3000.01	3510	(dBm)		(dB)
80	QPSK	1	109		18.53	18.59	18.60	20.0	0.0
Channel				633634	633334	634232	Tune-up limit		MPR
Frequency (MHz)				3485.01	3000.01	3515.01	(dBm)		(dB)
70	QPSK	1	95		18.50	18.64	18.56	20.0	0.0
Channel				633600	633334	634668	Tune-up limit		MPR
Frequency (MHz)				3480.01	3000.01	3510.01	(dBm)		(dB)
60	QPSK	1	81		18.46	18.55	18.53	20.0	0.0
Channel				631668	633334	635000	Tune-up limit		MPR
Frequency (MHz)				3475.02	3000.01	3505	(dBm)		(dB)
50	QPSK	1	67		18.49	18.57	18.63	20.0	0.0
Channel				631574	633334	635374	Tune-up limit		MPR
Frequency (MHz)				3470.01	3000.01	3530.01	(dBm)		(dB)
40	QPSK	1	53		18.46	18.63	18.62	20.0	0.0
Channel				631100	633334	635668	Tune-up limit		MPR
Frequency (MHz)				3464	3000.01	3534.02	(dBm)		(dB)
30	QPSK	1	39		18.45	18.55	18.63	20.0	0.0
Channel				630698	633334	636000	Tune-up limit		MPR
Frequency (MHz)				3460.02	3000.01	3540	(dBm)		(dB)
20	QPSK	1	26		18.40	18.61	18.59	20.0	0.0
Channel				630200	633334	636368	Tune-up limit		MPR
Frequency (MHz)				3457.5	3000.01	3542.52	(dBm)		(dB)
15	QPSK	1	19		18.47	18.60	18.61	20.0	0.0
Channel				630034	633334	636832	Tune-up limit		MPR
Frequency (MHz)				3455.01	3000.01	3545.01	(dBm)		(dB)
10	QPSK	1	12		18.54	18.63	18.57	20.0	0.0

n38 Ant 3 DS11							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	
Channel							
Frequency (MHz)							
40	Pl2 BPSK	1	1	22.28	22.34	22.25	
40	Pl2 BPSK	1	53	22.25	22.26	22.30	23.0
40	Pl2 BPSK	1	104	22.20	22.27	22.24	
40	Pl2 BPSK	50	0	22.19	22.26	22.25	23.0
40	Pl2 BPSK	50	28	22.19	22.26	22.26	23.0
40	Pl2 BPSK	50	56	22.20	22.33	22.30	23.0
40	Pl2 BPSK	100	0	22.22	22.29	22.25	
40	QPSK	1	1	22.26	22.35	22.28	
40	QPSK	1	53	22.25	22.27	22.25	23.0
40	QPSK	1	104	22.23	22.26	22.32	
40	QPSK	50	0	22.22	22.27	22.27	23.0
40	QPSK	50	28	22.26	22.33	22.24	23.0
40	QPSK	50	56	22.16	22.33	22.22	23.0
40	QPSK	100	0	22.22	22.31	22.25	
40	16QAM	1	1	22.18	22.23	22.25	23.0
40	64QAM	1	1	21.26	21.33	21.20	22.0
40	256QAM	1	1	19.32	19.30	19.27	23.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.21	22.31	22.23	23.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	22.24	22.31	22.20	23.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.14	22.31	22.18	23.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.23	22.30	22.24	23.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.23	22.31	22.18	23.0

n41 Ant 3 DS11							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	
Channel							
Frequency (MHz)							
100	Pl2 BPSK	1	1	22.22	22.32	22.23	
100	Pl2 BPSK	1	137	22.25	22.33	22.25	23.0
100	Pl2 BPSK	1	271	22.28	22.31	22.30	
100	Pl2 BPSK	135	0	22.18	22.30	22.27	23.0
100	Pl2 BPSK	135	69	22.22	22.30	22.26	23.0
100	Pl2 BPSK	135	138	22.27	22.33	22.27	23.0
100	Pl2 BPSK	270	0	22.25	22.32	22.24	
100	QPSK	1	1	22.27	22.38	22.26	
100	QPSK	1	107	22.24	22.36	22.24	23.0
100	QPSK	1	271	22.19	22.26	22.25	
100	QPSK	135	0	22.25	22.34	22.33	23.0
100	QPSK	135	69	22.28	22.35	22.27	23.0
100	QPSK	135	138	22.27	22.34	22.27	23.0
100	QPSK	270	0	22.24	22.36	22.26	
100	16QAM	1	1	22.21	22.31	22.29	23.0
100	64QAM	1	1	21.32	21.41	21.21	22.0
100	256QAM	1	1	19.28	19.34	19.31	23.0
Channel							
Frequency (MHz)							
90	QPSK	1	123	22.20	22.33	22.15	23.0
Channel							
Frequency (MHz)							
80	QPSK	1	109	22.21	22.32	22.18	23.0
Channel							
Frequency (MHz)							
60	QPSK	1	81	22.25	22.32	22.20	23.0
Channel							
Frequency (MHz)							
50	QPSK	1	67	22.21	22.34	22.15	23.0
Channel							
Frequency (MHz)							
40	QPSK	1	53	22.22	22.35	22.19	23.0
Channel							
Frequency (MHz)							
30	QPSK	1	39	22.18	22.32	22.25	23.0
Channel							
Frequency (MHz)							
20	QPSK	1	26	22.20	22.32	22.16	23.0
Channel							
Frequency (MHz)							
15	QPSK	1	19	22.19	22.37	22.17	23.0
Channel							
Frequency (MHz)							
10	QPSK	1	12	22.21	22.37	22.15	23.0

n48 Ant 3 DS11							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	
Channel							
Frequency (MHz)							
40	Pl2 BPSK	1	1	19.94	19.96	19.95	
40	Pl2 BPSK	1	53	19.98	19.91	19.96	21.5
40	Pl2 BPSK	1	104	19.88	19.99	19.91	
40	Pl2 BPSK	50	0	19.93	20.07	20.00	21.5
40	Pl2 BPSK	50	28	19.91	19.97	19.95	21.5
40	Pl2 BPSK	50	56	19.97	20.09	20.06	21.5
40	Pl2 BPSK	100	0	19.98	20.04	20.07	
40	QPSK	1	1	19.97	20.10	20.01	
40	QPSK	1	53	19.95	19.98	20.01	21.5
40	QPSK	1	104	19.97	20.03	19.99	
40	QPSK	50	0	19.97	20.07	19.97	21.0
40	QPSK	50	28	19.99	20.08	19.98	21.5
40	QPSK	50	56	19.98	20.06	20.05	21.0
40	QPSK	100	0	19.93	20.05	19.95	
40	16QAM	1	1	19.95	20.06	20.02	21.0
40	64QAM	1	1	17.98	18.10	18.05	19.5
40	256QAM	1	1	15.98	16.11	16.05	17.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.94	20.02	19.90	21.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.91	20.04	20.01	21.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.95	20.07	19.91	21.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.89	20.07	20.00	21.5

Par270 n77 Ant 3 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PQ2 BPSK	1	1	18.42	18.47	18.41			
100	PQ2 BPSK	1	137	18.44	18.53	18.48	20.0	0.0	
100	PQ2 BPSK	1	271	18.47	18.51	18.44			
100	PQ2 BPSK	135	0	18.10	18.08	18.00	19.5	0.5	
100	PQ2 BPSK	135	69	18.47	18.50	18.42	20.0	0.0	
100	PQ2 BPSK	135	138	18.03	18.13	17.97	19.5	0.5	
100	PQ2 BPSK	270	0	18.09	18.07	18.06			
100	QPSK	1	1	18.55	18.59	18.52			
100	QPSK	1	137	18.44	18.50	18.47	20.0	0.0	
100	QPSK	1	271	18.42	18.47	18.40			
100	QPSK	135	0	17.54	17.54	17.51	19.0	1.0	
100	QPSK	135	69	18.44	18.57	18.44	20.0	0.0	
100	QPSK	135	138	17.52	17.59	17.54	19.0	1.0	
100	QPSK	270	0	17.57	17.63	17.54			
100	16QAM	1	1	17.57	17.55	17.54	19.0	1.0	
100	64QAM	1	1	16.02	16.10	16.03	17.5	2.5	
100	256QAM	1	1	14.02	14.00	14.00	15.5	4.5	
Channel				650000	650000	650000			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	18.45	18.52	18.39	20.0	0.0	
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	18.47	18.53	18.50	20.0	0.0	
Channel				648668	650000	653334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	18.42	18.44	18.45	20.0	0.0	
Channel				648334	650000	653668			
Frequency (MHz)				3725.01	3840	3965.02			
50	QPSK	1	67	18.48	18.48	18.43	20.0	0.0	
Channel				648000	650000	654000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	18.50	18.51	18.48	20.0	0.0	
Channel				647334	650000	654668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	18.45	18.50	18.48	20.0	0.0	
Channel				647168	650000	654834			
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	18.46	18.49	18.39	20.0	0.0	
Channel				647000	650000	655000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	18.49	18.47	18.48	20.0	0.0	

Par270 n77 HPUE Ant 3 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PQ2 BPSK	1	1	20.03	20.06	20.03			
100	PQ2 BPSK	1	137	20.04	20.11	20.09	21.5	0.0	
100	PQ2 BPSK	1	271	20.11	20.13	20.06			
100	PQ2 BPSK	135	0	20.05	20.14	20.09	21.5	0.0	
100	PQ2 BPSK	135	69	20.02	20.14	20.06	21.5	0.0	
100	PQ2 BPSK	135	138	20.05	20.15	20.03	21.5	0.0	
100	PQ2 BPSK	270	0	20.09	20.14	20.04			
100	QPSK	1	1	20.10	20.16	20.10			
100	QPSK	1	137	20.10	20.11	20.09	21.5	0.0	
100	QPSK	1	271	20.06	20.10	20.01			
100	QPSK	135	0	20.09	20.14	20.08	21.5	0.0	
100	QPSK	135	69	20.06	20.07	20.03	21.5	0.0	
100	QPSK	135	138	20.09	20.10	20.06	21.5	0.0	
100	QPSK	270	0	20.06	20.11	20.06			
100	16QAM	1	1	20.10	20.13	20.07	21.5	0.0	
100	64QAM	1	1	19.06	19.08	19.01	20.5	1.0	
100	256QAM	1	1	17.04	17.02	17.02	18.5	3.0	
Channel				650000	650000	650000			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	20.03	20.10	20.05	21.5	0.0	
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	20.09	20.14	20.03	21.5	0.0	
Channel				648668	650000	653334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	20.07	20.10	20.08	21.5	0.0	
Channel				648334	650000	653668			
Frequency (MHz)				3725.01	3840	3965.02			
50	QPSK	1	67	20.02	20.13	20.02	21.5	0.0	
Channel				648000	650000	654000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	20.03	20.14	19.98	21.5	0.0	
Channel				647334	650000	654668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	20.03	20.13	20.09	21.5	0.0	
Channel				647168	650000	654834			
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	20.02	20.11	20.08	21.5	0.0	
Channel				647000	650000	655000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	20.03	20.15	20.00	21.5	0.0	

Part27Q n77 Ant 3 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				63000	63334				
Frequency (MHz)				3500.01					
100	PQ2 BPSK	1	1	18.82					
100	PQ2 BPSK	1	137	18.82			20.0	0.0	
100	PQ2 BPSK	1	271	18.80					
100	PQ2 BPSK	135	0	18.42			19.5	0.5	
100	PQ2 BPSK	135	69	18.76			20.0	0.0	
100	PQ2 BPSK	135	138	18.44			19.5	0.5	
100	PQ2 BPSK	270	0	18.31					
100	QPSK	1	1	18.89					
100	QPSK	1	137	18.89			20.0	0.0	
100	QPSK	1	271	18.77					
100	QPSK	135	0	17.90			19.0	1.0	
100	QPSK	135	69	18.87			20.0	0.0	
100	QPSK	135	138	17.91			19.0	1.0	
100	QPSK	270	0	17.97					
100	16QAM	1	1	17.90			19.0	1.0	
100	64QAM	1	1	16.42			17.5	2.5	
100	256QAM	1	1	14.40			15.5	4.5	
Channel				63000	63334	63368			
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	18.78	18.82	18.68	20.0	0.0	
Channel				630668	63334	63300			
Frequency (MHz)				3490.02	3500.01	3510.01			
80	QPSK	1	109	18.71	18.80	18.74	20.0	0.0	
Channel				630000	63334	63368			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	18.72	18.79	18.69	20.0	0.0	
Channel				631668	63334	635000			
Frequency (MHz)				3475.02	3500.01	3525.01			
50	QPSK	1	67	18.76	18.81	18.74	20.0	0.0	
Channel				631334	63334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	18.77	18.80	18.73	20.0	0.0	
Channel				630668	63334	636000			
Frequency (MHz)				3460.02	3500.01	3540.01			
20	QPSK	1	26	18.74	18.79	18.69	20.0	0.0	
Channel				630000	63334	637000			
Frequency (MHz)				3450.01	3500.01	3545.02			
15	QPSK	1	19	18.70	18.82	18.68	20.0	0.0	
Channel				630334	63334	638334			
Frequency (MHz)				3445.01	3500.01	3545.01			
10	QPSK	1	12	18.70	18.83	18.71	20.0	0.0	

Part27Q n77 HPUE Ant 3 DSI1									
BW [MHz]	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		20.42				
100	PI2 BPSK	1	137		20.46		21.5	0.0	
100	PI2 BPSK	1	271		20.46				
100	PI2 BPSK	135	0		20.39		21.5	0.0	
100	PI2 BPSK	135	69		20.41		21.5	0.0	
100	PI2 BPSK	135	138		20.45		21.5	0.0	
100	PI2 BPSK	270	0		20.40				
100	QPSK	1	1		20.52				
100	QPSK	1	137		20.50		21.5	0.0	
100	QPSK	1	271		20.43				
100	QPSK	135	0		20.46		21.5	0.0	
100	QPSK	135	69		20.50		21.5	0.0	
100	QPSK	135	138		20.45		21.5	0.0	
100	QPSK	270	0		20.46				
100	16QAM	1	1		20.41		21.5	0.0	
100	64QAM	1	1		19.43		20.5	1.0	
100	256QAM	1	1		17.43		18.5	3.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123		20.17	20.24	20.04	21.5	0.0
Channel				630668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3498.02	3500.01	3510			
80	QPSK	1	109		20.25	20.26	20.12	21.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3500.01	3520.02			
60	QPSK	1	81		20.15	20.21	20.08	21.5	0.0
Channel				637668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3476.02	3500.01	3525			
50	QPSK	1	67		20.15	20.22	20.07	21.5	0.0
Channel				6370.01	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53		20.22	20.28	20.08	21.5	0.0
Channel				636668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.02	3500.01	3460			
20	QPSK	1	26		20.19	20.22	20.12	21.5	0.0
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19		20.15	20.28	20.08	21.5	0.0
Channel				635334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3458.01	3500.01	3545.01			
10	QPSK	1	12		20.14	20.23	20.10	21.5	0.0

Part27O n78 Ant 3 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		18.57				
100	PI2 BPSK	1	137		18.55		20.0		0.0
100	PI2 BPSK	1	271		18.56				
100	PI2 BPSK	135	0		18.09		19.5		0.5
100	PI2 BPSK	135	69		18.59		20.0		0.0
100	PI2 BPSK	135	138		18.22		19.5		0.5
100	PI2 BPSK	270	0		18.17				
100	QPSK	1	1		18.05				
100	QPSK	1	137		18.59		20.0		0.0
100	QPSK	1	271		18.56				
100	QPSK	135	0		18.56				
100	QPSK	135	69		17.57		19.0		1.0
100	QPSK	135	138		18.60		20.0		0.0
100	QPSK	270	0		17.60		19.0		1.0
100	16QAM	1	1		17.66		19.0		1.0
100	64QAM	1	1		17.58		17.5		2.5
100	256QAM	1	1		16.14		15.5		4.5
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	123		18.53	18.43	20.0		0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109		18.47	18.55	18.43	20.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95		18.50	18.59	18.48	20.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81		18.46	18.52	18.50	20.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67		18.46	18.57	18.39	20.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53		18.48	18.63	18.47	20.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39		18.35	18.54	18.42	20.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01 <td>3750</td> <td>3790.02</td> <td></td> <td colspan="2"></td>	3750	3790.02			
20	QPSK	1	26		18.48	18.63	18.42	20.0	0.0
Channel				647000	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19		18.50	18.58	18.48	20.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12		18.50	18.55	18.46	20.0	0.0

Part270 n78 HPUE Ant 3 DSI1									
BW [MHz]	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		19.62			21.0	0.0
100	Pi2 BPSK	1	137		19.67				
100	Pi2 BPSK	1	271		19.65				
100	Pi2 BPSK	135	0		19.60		21.0	0.0	
100	Pi2 BPSK	135	69		19.65		21.0	0.0	
100	Pi2 BPSK	135	138		19.66		21.0	0.0	
100	Pi2 BPSK	270	0		19.58				
100	QPSK	1	1		19.68			21.0	0.0
100	QPSK	1	137		19.66			21.0	0.0
100	QPSK	1	271		19.60				
100	QPSK	135	0		19.63		21.0	0.0	
100	QPSK	135	69		19.64		21.0	0.0	
100	QPSK	135	138		19.61		21.0	0.0	
100	QPSK	270	0		19.62				
100	16QAM	1	1		19.58		21.0	0.0	
100	64QAM	1	1		19.14		20.5	0.5	
100	256QAM	1	1		17.20		18.5	2.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	123		19.44	19.51	19.32	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109		19.55	19.43	19.39	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95		19.45	19.53	19.39	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81		19.48	19.52	19.40	21.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67		19.50	19.52	19.37	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53		19.55	19.50	19.34	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39		19.54	19.45	19.41	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26		19.51	19.50	19.29	21.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
15	QPSK	1	19		19.47	19.51	19.33	21.0	0.0
Channel				646700	650000	653300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3700	3750	3800			
10	QPSK	1	12		19.55	19.53	19.34	21.0	0.0

Part27Q 78 Ant 3 DSI1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	
Channel				633334	3000.01		
100	P12 BPSK	1	1	18.90			
100	P12 BPSK	1	137	18.96			
100	P12 BPSK	1	271	18.98			
100	P12 BPSK	135	0	18.60			
100	P12 BPSK	135	69	18.69			
100	P12 BPSK	135	138	18.55			
100	P12 BPSK	270	0	18.37			
100	QPSK	1	1	19.06			
100	QPSK	1	137	18.93			
100	QPSK	1	271	18.87			
100	QPSK	135	0	17.88			
100	QPSK	135	69	19.04			
100	QPSK	135	138	18.84			
100	QPSK	270	0	18.10			
100	16QAM	1	1	18.07			
100	64QAM	1	1	18.56			
100	256QAM	1	1	14.37			
Channel				633330	633334	633668	
Frequency (MHz)				3485	3000.01	3005.02	
90	QPSK	1	123	18.88	18.95	18.84	
Channel				632068	633334	634000	
Frequency (MHz)				3480.02	3000.01	3010	
80	QPSK	1	109	18.85	18.93	18.85	
Channel				632334	633334	634334	
Frequency (MHz)				3485.01	3000.01	3015.01	
70	QPSK	1	96	18.86	18.94	18.82	
Channel				632000	633334	634668	
Frequency (MHz)				3480	3000.01	3020.02	
60	QPSK	1	81	18.88	18.85	18.77	
Channel				631668	633334	635000	
Frequency (MHz)				3475.02	3000.01	3025	
50	QPSK	1	67	18.95	18.95	18.85	
Channel				631334	633334	635334	
Frequency (MHz)				3470.01	3000.01	3030.01	
40	QPSK	1	53	18.87	18.94	18.83	
Channel				631000	633334	635668	
Frequency (MHz)				3465	3000.01	3035.02	
30	QPSK	1	39	18.92	18.89	18.82	
Channel				630668	633334	636000	
Frequency (MHz)				3460.02	3000.01	3040	
20	QPSK	1	26	18.94	19.00	18.76	
Channel				630334	633334	636334	
Frequency (MHz)				3457.5	3000.01	3042.52	
15	QPSK	1	19	18.89	18.89	18.79	
Channel				630334	633334	636334	
Frequency (MHz)				3450.01	3000.01	3043.01	
10	QPSK	1	12	18.85	18.95	18.82	

Part27Q 78 HPUE Ant 3 DSI1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	
Channel				633334	3000.01		
100	P12 BPSK	1	1	20.07			
100	P12 BPSK	1	137	20.11			
100	P12 BPSK	1	271	20.07			
100	P12 BPSK	135	0	20.04			
100	P12 BPSK	135	69	20.10			
100	P12 BPSK	135	138	20.08			
100	P12 BPSK	270	0	20.08			
100	QPSK	1	1	20.12			
100	QPSK	1	137	20.06			
100	QPSK	1	271	20.10			
100	QPSK	135	0	20.06			
100	QPSK	135	69	20.09			
100	QPSK	135	138	20.01			
100	QPSK	270	0	20.08			
100	16QAM	1	1	20.01			
100	64QAM	1	1	19.81			
100	256QAM	1	1	17.62			
Channel				633330	633334	633668	
Frequency (MHz)				3485	3000.01	3005.02	
90	QPSK	1	123	19.91	19.94	19.87	
Channel				632068	633334	634000	
Frequency (MHz)				3480.02	3000.01	3010	
80	QPSK	1	109	19.91	19.94	19.83	
Channel				632334	633334	634334	
Frequency (MHz)				3485.01	3000.01	3015.01	
70	QPSK	1	96	19.84	19.89	19.85	
Channel				632000	633334	634668	
Frequency (MHz)				3480	3000.01	3020.02	
60	QPSK	1	81	19.90	19.87	19.85	
Channel				631668	633334	635000	
Frequency (MHz)				3475.02	3000.01	3025	
50	QPSK	1	67	19.84	19.93	19.89	
Channel				631334	633334	635334	
Frequency (MHz)				3470.01	3000.01	3030.01	
40	QPSK	1	53	19.91	19.99	19.85	
Channel				631000	633334	635668	
Frequency (MHz)				3465	3000.01	3035.02	
30	QPSK	1	39	19.90	19.87	19.85	
Channel				630668	633334	636000	
Frequency (MHz)				3460.02	3000.01	3040	
20	QPSK	1	26	19.83	19.98	19.79	
Channel				630334	633334	636334	
Frequency (MHz)				3457.5	3000.01	3042.52	
15	QPSK	1	19	19.87	19.94	19.86	
Channel				630334	633334	636334	
Frequency (MHz)				3450.01	3000.01	3043.01	
10	QPSK	1	12	19.86	19.92	19.84	

n38 Ant 4 DSI1									
BW [MHz]	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	17.5	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	16.05	16.08	16.04	17.5	0.0	
40	PI2 BPSK	1	53	15.96	16.02	16.04			
40	PI2 BPSK	1	104	16.06	16.07	16.05	17.5	0.0	
40	PI2 BPSK	50	0	16.01	16.05	16.03			
40	PI2 BPSK	50	28	15.97	16.07	15.98	17.5	0.0	
40	PI2 BPSK	50	56	16.04	16.06	16.04			
40	PI2 BPSK	100	0	15.98	16.07	15.97	17.5	0.0	
40	QPSK	1	1	16.01	16.09	16.04			
40	QPSK	1	53	15.98	16.02	16.02	17.5	0.0	
40	QPSK	1	104	15.96	16.06	16.05			
40	QPSK	50	0	15.98	16.07	16.04	17.5	0.0	
40	QPSK	50	28	16.01	16.04	16.02			
40	QPSK	50	56	15.99	16.03	16.01	17.5	0.0	
40	QPSK	100	0	16.05	16.07	16.05			
40	16QAM	1	1	16.02	16.05	15.99	17.5	0.0	
40	64QAM	1	1	16.06	16.06	16.04			
40	256QAM	1	1	16.04	16.05	16.00	17.5	0.0	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99	17.5	0.0	
30	QPSK	1	1	15.92	16.04	15.98		0.0	
Channel				516504	519000	521496	17.5	0.0	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	15.92	16.07	15.99	17.5	0.0	
Channel				516000	519000	522000		0.0	
Frequency (MHz)				2580	2595	2610	17.5	0.0	
20	QPSK	1	1	16.01	16.04	15.98		0.0	
Channel				515502	519000	522498	17.5	0.0	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	15.97	16.04	16.03	17.5	0.0	
Channel				515004	519000	522996		0.0	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	15.90	16.06	15.95	17.5	0.0	
Channel				514500	519000	523500		0.0	
Frequency (MHz)				2572.50	2595	2617.50			

n41 Ant 4 DSI1									
BW [MHz]	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	19.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	17.01	17.19	17.01	19.0	0.0	
100	PI2 BPSK	1	137	17.01	17.17	17.08			
100	PI2 BPSK	1	271	17.06	17.15	17.06	19.0	0.0	
100	PI2 BPSK	135	0	17.06	17.14	17.02			
100	PI2 BPSK	135	69	17.08	17.18	17.02	19.0	0.0	
100	PI2 BPSK	135	138	17.07	17.16	17.10			
100	PI2 BPSK	270	0	17.09	17.16	17.02	19.0	0.0	
100	QPSK	1	1	17.10	17.22	17.08			
100	QPSK	1	137	17.03	17.16	17.12	19.0	0.0	
100	QPSK	1	271	17.03	17.15	17.03			
100	QPSK	135	0	17.05	17.18	17.07	19.0	0.0	
100	QPSK	135	69	17.08	17.19	17.11			
100	QPSK	135	138	17.01	17.13	17.02	19.0	0.0	
100	QPSK	270	0	17.10	17.20	17.12			
100	16QAM	1	1	17.10	17.20	17.07	19.0	0.0	
100	64QAM	1	1	17.10	17.21	17.07			
100	256QAM	1	1	17.04	17.15	17.10	19.0	0.0	
Channel				508200	518598	528996		0.0	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.06	17.18	16.98	19.0	0.0	
Channel				507204	518598	529998		0.0	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	17.04	17.19	17.02	19.0	0.0	
Channel				506200	518598	531996		0.0	
Frequency (MHz)				2531	2592.99	2639.98			
60	QPSK	1	1	17.05	17.20	17.04	19.0	0.0	
Channel				504204	518598	532998		0.0	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	17.03	17.19	17.07	19.0	0.0	
Channel				503202	518598	534000		0.0	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	16.99	17.16	17.05	19.0	0.0	
Channel				502200	518598	534996		0.0	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	17.05	17.21	17.06	19.0	0.0	
Channel				501204	518598	535998		0.0	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.02	17.19	16.96	19.0	0.0	
Channel				500700	518598	536496		0.0	
Frequency (MHz)				2503.5	2592.99	2662.48			
15	QPSK	1	1	17.06	17.17	16.97	19.0	0.0	
Channel				500202	518598	537000		0.0	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	17.01	17.17	17.00	19.0	0.0	
Channel				500000	518598	537000		0.0	
Frequency (MHz)				2500.00	2592.99	2685			

n48 Ant 5 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				636000	641666	646332		
Frequency (MHz)				3570	3624.99	3680		
40	P12 BPSK	1	1	14.99	15.04	15.04		
40	P12 BPSK	1	53	14.99	15.01	15.06	16.5	0.0
40	P12 BPSK	1	104	15.02	15.07	15.00		
40	P12 BPSK	50	0	15.04	15.03	14.96	16.5	0.0
40	P12 BPSK	50	28	15.05	15.02	15.07	16.5	0.0
40	P12 BPSK	50	56	15.03	15.05	14.98	16.5	0.0
40	P12 BPSK	100	0	14.98	15.10	15.05		
40	QPSK	1	1	15.06	15.12	15.05		
40	QPSK	1	53	14.99	15.11	15.04	16.5	0.0
40	QPSK	1	104	14.99	15.01	15.08		
40	QPSK	50	0	15.03	15.04	15.00	16.5	0.0
40	QPSK	50	28	15.04	15.05	15.03	16.5	0.0
40	QPSK	50	56	15.03	15.04	15.04	16.5	0.0
40	QPSK	100	0	15.05	15.08	15.07		
40	16QAM	1	1	15.05	15.06	15.02	16.5	0.0
40	16QAM	1	1	15.02	15.09	15.04	16.5	0.0
40	256QAM	1	1	15.01	15.06	15.04	16.5	0.0
Channel				3565.02	3624.99	3684.99		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	QPSK	1	1	14.99	15.08	15.03	16.5	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3560.01	3624.99	3690.00		
20	QPSK	1	1	15.03	15.00	14.93	16.5	0.0
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR
Frequency (MHz)				3567.52	3624.99	3692.49		
15	QPSK	1	1	15.01	15.10	14.96	16.5	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3565	3624.99	3695		
10	QPSK	1	1	15.01	15.11	15.03	16.5	0.0

Par270 n77 PC2&3 Ant 5 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3840	3930		
100	P12 BPSK	1	1	16.14	16.11	16.09		
100	P12 BPSK	1	137	16.04	16.09	16.06	17.5	0.0
100	P12 BPSK	1	271	16.16	16.11	16.06		
100	P12 BPSK	135	0	16.09	16.11	16.10	17.5	0.0
100	P12 BPSK	135	69	16.05	16.14	16.16	17.5	0.0
100	P12 BPSK	135	138	16.07	16.16	16.11	17.5	0.0
100	P12 BPSK	270	0	16.09	16.16	16.12		
100	QPSK	1	1	16.13	16.19	16.16		
100	QPSK	1	137	16.04	16.15	16.06	17.5	0.0
100	QPSK	1	271	16.09	16.18	16.09		
100	QPSK	135	0	16.06	16.12	16.10	17.5	0.0
100	QPSK	135	69	16.08	16.14	16.11	17.5	0.0
100	QPSK	135	138	16.10	16.13	16.07	17.5	0.0
100	QPSK	270	0	16.09	16.17	16.13		
100	16QAM	1	1	16.14	16.16	16.11	17.5	0.0
100	16QAM	1	1	16.09	16.16	16.14	17.5	0.0
100	256QAM	1	1	16.09	16.10	16.16	17.5	0.0
Channel				3745.02	3840	3935.01		
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	123	16.09	16.17	16.13	17.5	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	16.06	16.14	16.12	17.5	0.0
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	16.10	16.10	16.06	17.5	0.0
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	16.07	16.15	16.13	17.5	0.0
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	16.11	16.11	16.10	17.5	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	16.11	16.14	16.09	17.5	0.0
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	16.04	16.17	16.07	17.5	0.0
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	16.12	16.11	16.07	17.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel						633334		
Frequency (MHz)						3500.01		
100	P12 BPSK	1	1			16.05		
100	P12 BPSK	1	137			16.09	17.5	0.0
100	P12 BPSK	1	271			16.11		
100	P12 BPSK	135	0			16.06	17.5	0.0
100	P12 BPSK	135	69			16.04	17.5	0.0
100	P12 BPSK	135	138			16.10	17.5	0.0
100	P12 BPSK	270	0			16.11		
100	QPSK	1	1			16.13		
100	QPSK	1	137			16.10	17.5	0.0
100	QPSK	1	271			16.07		
100	QPSK	135	0			16.08	17.5	0.0
100	QPSK	135	69			16.11	17.5	0.0
100	QPSK	135	138			16.06	17.5	0.0
100	QPSK	270	0			16.10		
100	16QAM	1	1			16.04	17.5	0.0
100	16QAM	1	1			16.06	17.5	0.0
100	256QAM	1	1			16.05	17.5	0.0
Channel				633000		633668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	15.97	15.95	15.85	17.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	15.98	16.01	15.70	17.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	15.94	15.97	15.80	17.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3470.02	3500.01	3520		
50	QPSK	1	67	15.91	15.96	15.87	17.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	15.97	15.94	15.83	17.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	15.90	15.99	15.81	17.5	0.0
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	15.91	15.96	15.81	17.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	15.91	15.95	15.79	17.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		18.11		17.5	0.0	
100	PI2 BPSK	1	137		18.07				
100	PI2 BPSK	1	271		18.08				
100	PI2 BPSK	135	0		18.10		17.5	0.0	
100	PI2 BPSK	135	69		18.04		17.5	0.0	
100	PI2 BPSK	135	138		18.11		17.5	0.0	
100	PI2 BPSK	270	0		18.08		17.5	0.0	
100	QPSK	1	1		18.14				
100	QPSK	1	137		18.04				
100	QPSK	1	271		18.08		17.5	0.0	
100	QPSK	135	0		18.07				
100	QPSK	135	69		18.13				
100	QPSK	135	138		18.12		17.5	0.0	
100	QPSK	270	0		18.11		17.5	0.0	
100	16QAM	1	1		18.02		17.5	0.0	
100	64QAM	1	1		18.03		17.5	0.0	
100	256QAM	1	1		18.07		17.5	0.0	
Channel				648688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	123	15.95	15.99	15.87	17.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02 <td></td> <th colspan="2"></th>			
80	QPSK	1	109	15.97	16.03	15.92	17.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735 <th>3750</th> <th>3765<td></td><th colspan="2"></th></th>	3750	3765 <td></td> <th colspan="2"></th>			
70	QPSK	1	95	15.99	15.95	15.85	17.5	0.0	
Channel				648688	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01 <td></td> <th colspan="2"></th>			
60	QPSK	1	81	15.98	15.92	15.87	17.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02 <td></td> <th colspan="2"></th>			
50	QPSK	1	67	15.98	15.98	15.90	17.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720 <th>3750</th> <th>3780<td></td><th colspan="2"></th></th>	3750	3780 <td></td> <th colspan="2"></th>			
40	QPSK	1	53	18.02	15.99	15.95	17.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01 <td></td> <th colspan="2"></th>			
30	QPSK	1	39	15.97	16.04	15.87	17.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02 <td></td> <th colspan="2"></th>			
20	QPSK	1	26	18.03	15.97	15.88	17.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53 <th>3750</th> <th>3792.51<td></td><th colspan="2"></th></th>	3750	3792.51 <td></td> <th colspan="2"></th>			
15	QPSK	1	19	18.00	16.04	15.93	17.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705 <th>3750</th> <th>3795<td></td><th colspan="2"></th></th>	3750	3795 <td></td> <th colspan="2"></th>			
10	QPSK	1	12	16.04	16.03	15.90	17.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		18.08		17.5	0.0	
100	PI2 BPSK	1	137		18.07				
100	PI2 BPSK	1	271		15.99				
100	PI2 BPSK	135	0		18.08		17.5	0.0	
100	PI2 BPSK	135	69		15.99		17.5	0.0	
100	PI2 BPSK	135	138		18.05		17.5	0.0	
100	PI2 BPSK	270	0		18.08		17.5	0.0	
100	QPSK	1	1		18.11				
100	QPSK	1	137		18.06				
100	QPSK	1	271		18.05		17.5	0.0	
100	QPSK	135	0		18.02				
100	QPSK	135	69		18.08				
100	QPSK	135	138		18.04		17.5	0.0	
100	QPSK	270	0		18.02		17.5	0.0	
100	16QAM	1	1		18.00		17.5	0.0	
100	64QAM	1	1		18.03		17.5	0.0	
100	256QAM	1	1		18.08		17.5	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	15.93	18.02	15.98	17.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	15.94	18.01	15.90	17.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	95	15.96	15.98	15.91	17.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	15.90	15.97	15.97	17.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	15.90	15.99	15.87	17.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	15.86	18.02	15.92	17.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	39	15.91	15.99	15.90	17.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	15.95	15.92	15.90	17.5	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	15.88	18.02	15.86	17.5	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	15.86	18.03	15.90	17.5	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
40	PI2 BPSK	1	1	18.24	18.30	18.21	20.0	0.0			
40	PI2 BPSK	1	53	18.26	18.26	18.23					
40	PI2 BPSK	1	104	18.23	18.25	18.21					
40	PI2 BPSK	50	0	17.81	17.91	17.80	19.5	0.5			
40	PI2 BPSK	50	28	18.21	18.26	18.26	20.0	0.0			
40	PI2 BPSK	50	56	17.81	17.90	17.79	19.5	0.5			
40	PI2 BPSK	100	0	17.77	17.84	17.78	20.0	0.0			
40	QPSK	1	1	18.31	18.38	18.32					
40	QPSK	1	53	18.27	18.30	18.23					
40	QPSK	1	104	18.25	18.30	18.26	19.0	1.0			
40	QPSK	50	0	17.30	17.43	17.27					
40	QPSK	50	28	18.27	18.35	18.21	20.0	0.0			
40	QPSK	50	56	17.36	17.39	17.36	19.0	1.0			
40	QPSK	100	0	17.27	17.40	17.37	19.0	1.0			
40	16QAM	1	1	17.25	17.37	17.31					
40	64QAM	1	1	15.86	15.88	15.86	17.5	2.5			
40	256QAM	1	1	13.86	13.86	13.82	15.5	4.5			
Channel											
Frequency (MHz)											
30	QPSK	1	1	17.9702	18.0000	18.0096	Tune-up limit (dBm)	MPR (dB)			
Channel				2495.01	2500	2494.98	20.0	0.0			
Frequency (MHz)											
30	QPSK	1	1	18.17	18.28	18.29				Tune-up limit (dBm)	MPR (dB)
Channel				156504	156000	1521496	20.0	0.0			
Frequency (MHz)											
25	QPSK	1	1	2292.52	2290	2297.63				Tune-up limit (dBm)	MPR (dB)
Channel				156000	156000	1522000	20.0	0.0			
Frequency (MHz)											
25	QPSK	1	1	18.17	18.28	18.29				Tune-up limit (dBm)	MPR (dB)
Channel				2560	2560	2614	20.0	0.0			
Frequency (MHz)											
20	QPSK	1	1	18.27	18.36	18.24				Tune-up limit (dBm)	MPR (dB)
Channel				152252	150000	1522452	20.0	0.0			
Frequency (MHz)											
15	QPSK	1	1	2577.51	2566	2612.49				Tune-up limit (dBm)	MPR (dB)
Channel				30156	15000	152296	20.0	0.0			
Frequency (MHz)											
10	QPSK	1	1	18.20	18.33	18.26				Tune-up limit (dBm)	MPR (dB)

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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	18.34	18.37	18.31	20.0	0.0			
100	PI2 BPSK	1	137	18.36	18.37	18.25					
100	PI2 BPSK	1	271	18.31	18.34	18.30					
100	PI2 BPSK	135	0	17.82	17.92	17.86	19.5	0.5			
100	PI2 BPSK	135	69	18.32	18.36	18.34	20.0	0.0			
100	PI2 BPSK	135	138	17.85	17.98	17.82	19.5	0.5			
100	PI2 BPSK	270	0	17.87	17.93	17.85	20.0	0.0			
100	QPSK	1	1	18.42	18.45	18.33					
100	QPSK	1	107	18.36	18.39	18.23					
100	QPSK	1	271	18.31	18.46	18.31	19.0	1.0			
100	QPSK	135	0	17.41	17.49	17.34					
100	QPSK	135	69	18.36	18.45	18.25	20.0	0.0			
100	QPSK	135	138	17.44	17.50	17.46	19.0	1.0			
100	QPSK	270	0	17.35	17.46	17.44	19.0	1.0			
100	16QAM	1	1	17.27	17.47	17.35					
100	64QAM	1	1	15.97	15.99	15.88	17.5	2.5			
100	256QAM	1	1	13.31	13.92	13.92	15.5	4.5			
Channel											
Frequency (MHz)											
90	QPSK	1	123	18.25	18.29	18.33	20.0	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	109	18.19	18.38	18.36	20.0	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	81	18.21	18.39	18.35	20.0	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	67	18.28	18.36	18.34	20.0	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	53	18.24	18.37	18.39	20.0	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	39	18.24	18.40	18.38	20.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	26	18.18	18.31	18.34	20.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	19	18.23	18.31	18.30	20.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	12	18.25	18.35	18.32	20.0	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)											
40	PI2 BPSK	1	1	19.37	19.38	19.34	21.0	0.0			
40	PI2 BPSK	1	53	19.33	19.47	19.44					
40	PI2 BPSK	1	104	19.39	19.39	19.43					
40	PI2 BPSK	50	0	19.35	19.48	19.45	21.0	0.0			
40	PI2 BPSK	50	28	19.42	19.45	19.36	21.0	0.0			
40	PI2 BPSK	50	56	19.42	19.46	19.36	21.0	0.0			
40	PI2 BPSK	100	0	19.35	19.38	19.44					
40	QPSK	1	1	19.42	19.43	19.41					
40	QPSK	1	53	19.35	19.38	19.35	21.0	0.0			
40	QPSK	1	104	19.31	19.41	19.40					
40	QPSK	50	0	19.34	19.40	19.37	21.0	0.0			
40	QPSK	50	28	19.38	19.46	19.45	21.0	0.0			
40	QPSK	50	56	19.37	19.41	19.39	21.0	0.0			
40	QPSK	100	0	19.37	19.45	19.40	21.0	0.0			
40	16QAM	1	1	19.39	19.48	19.36					
40	64QAM	1	1	19.37	19.48	19.37	21.0	0.0			
40	256QAM	1	1	18.41	18.46	18.45	20.0	1.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	19.30	19.47	19.34	21.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	19.34	19.43	19.35	21.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	19.32	19.47	19.29	21.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	19.31	19.43	19.33	21.0	0.0			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
100	P12 BPSK	1	1	17.55	17.56	17.53	19.0	0.0			
100	P12 BPSK	1	137	17.56	17.56	17.55					
100	P12 BPSK	1	271	17.55	17.56	17.55					
100	P12 BPSK	135	0	17.56	17.62	17.61	19.0	0.0			
100	P12 BPSK	135	69	17.57	17.64	17.59	19.0	0.0			
100	P12 BPSK	135	138	17.58	17.65	17.60	19.0	0.0			
100	P12 BPSK	270	0	17.51	17.62	17.56	19.0	0.0			
100	QPSK	1	1	17.58	17.66	17.60					
100	QPSK	1	137	17.54	17.65	17.60					
100	QPSK	1	271	17.52	17.59	17.60	19.0	0.0			
100	QPSK	135	0	17.57	17.60	17.57	19.0	0.0			
100	QPSK	135	69	17.55	17.64	17.59	19.0	0.0			
100	QPSK	135	138	17.57	17.61	17.54	19.0	0.0			
100	QPSK	270	0	17.54	17.55	17.51	19.0	0.0			
100	16QAM	1	1	17.56	17.60	17.51	19.0	0.0			
100	64QAM	1	1	17.51	17.59	17.50	19.0	0.0			
100	256QAM	1	1	17.54	17.57	17.51	19.0	0.0			
Channel											
Frequency (MHz)											
90	QPSK	1	123	17.49	17.50	17.38	19.0	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	109	17.45	17.50	17.41	19.0	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	81	17.40	17.51	17.45	19.0	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	67	17.47	17.55	17.45	19.0	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	53	17.55	17.56	17.34	19.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	26	17.50	17.57	17.49	19.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	19	17.45	17.52	17.33	19.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	12	17.44	17.50	17.35	19.0	0.0			

Part27Q n77 PC2&3 Ant 7 DSI1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630334	Power Middle Ch. / Freq. 633666	Power High Ch. / Freq. 636998	Tune-up limit (dbm)	MPR (db)			
Channel											
Frequency (MHz)											
100	P12 BPSK	1	1	17.83	17.83	17.83	19.0	0.0			
100	P12 BPSK	1	137	17.81	17.81	17.81					
100	P12 BPSK	1	273	17.83	17.83	17.83					
100	P12 BPSK	135	0	17.76	17.76	17.76	19.0	0.0			
100	P12 BPSK	135	69	17.75	17.75	17.75	19.0	0.0			
100	P12 BPSK	135	138	17.80	17.80	17.80	19.0	0.0			
100	P12 BPSK	270	0	17.82	17.82	17.82	19.0	0.0			
100	QPSK	1	1	17.66	17.66	17.66					
100	QPSK	1	137	17.84	17.84	17.84					
100	QPSK	1	271	17.75	17.75	17.75	19.0	0.0			
100	QPSK	135	0	17.78	17.78	17.78	19.0	0.0			
100	QPSK	135	69	17.85	17.85	17.85	19.0	0.0			
100	QPSK	135	138	17.76	17.76	17.76	19.0	0.0			
100	QPSK	270	0	17.75	17.75	17.75	19.0	0.0			
100	16QAM	1	1	17.83	17.83	17.83	19.0	0.0			
100	64QAM	1	1	17.82	17.82	17.82	19.0	0.0			
100	256QAM	1	1	17.75	17.75	17.75	19.0	0.0			
Channel											
Frequency (MHz)											
90	QPSK	1	123	17.72	17.78	17.62	19.0	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	109	17.62	17.75	17.61	19.0	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	81	17.71	17.63	17.67	19.0	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	67	17.67	17.73	17.68	19.0	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	53	17.60	17.73	17.69	19.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	26	17.64	17.77	17.62	19.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	19	17.63	17.61	17.62	19.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	12	17.67	17.73	17.62	19.0	0.0			

Part270 n78 PC2&3 Ant 7 DSI1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit	MPR (dB)			
Channel											
Frequency (MHz)											
100	P12 BPSK	1	1	18.01			19.5	0.0			
100	P12 BPSK	1	137	18.00							
100	P12 BPSK	1	271	18.02							
100	P12 BPSK	135	0	17.91			19.5	0.0			
100	P12 BPSK	135	69	17.97			19.5	0.0			
100	P12 BPSK	135	138	18.01			19.5	0.0			
100	P12 BPSK	270	0	17.91			19.5	0.0			
100	QPSK	1	1	18.03							
100	QPSK	1	137	17.93							
100	QPSK	1	271	17.93			19.5	0.0			
100	QPSK	135	0	17.92			19.5	0.0			
100	QPSK	135	69	17.98			19.5	0.0			
100	QPSK	135	138	17.97			19.5	0.0			
100	QPSK	270	0	18.00			19.5	0.0			
100	16QAM	1	1	17.99			19.5	0.0			
100	64QAM	1	1	17.92			19.5	0.0			
100	256QAM	1	1	17.97			19.5	0.0			
Channel											
Frequency (MHz)											
90	QPSK	1	123	17.85	17.83	17.83	19.5	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	109	17.79	17.85	17.75	19.5	0.0			
Channel											
Frequency (MHz)											
70	QPSK	1	95	17.80	17.88	17.76	19.5	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	81	17.75	17.83	17.84	19.5	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	67	17.77	17.84	17.78	19.5	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	53	17.82	17.84	17.80	19.5	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	39	17.83	17.87	17.81	19.5	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	25	17.82	17.81	17.75	19.5	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	19	17.83	17.89	17.79	19.5	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	12	17.80	17.82	17.83	19.5	0.0			
Channel											
Frequency (MHz)											

Part27Q n78 PC2&3 Ant 7 DSI1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Modem Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm) MPR (dB)
Channel					633334		
Frequency (MHz)					3500.01		
100	PQ2 BPSK	1	1	18.38			
100	PQ2 BPSK	1	137	18.39			19.5 0.0
100	PQ2 BPSK	1	271	18.41			
100	PQ2 BPSK	135	0	18.40			19.5 0.0
100	PQ2 BPSK	135	69	18.38			19.5 0.0
100	PQ2 BPSK	135	138	18.35			19.5 0.0
100	PQ2 BPSK	270	0	18.34			
100	QPSK	1	1	18.42			
100	QPSK	1	137	18.41			19.5 0.0
100	QPSK	1	271	18.37			
100	QPSK	135	0	18.34			19.5 0.0
100	QPSK	135	69	18.40			19.5 0.0
100	QPSK	135	138	18.37			19.5 0.0
100	QPSK	270	0	18.35			
100	16QAM	1	1	18.38			19.5 0.0
100	64QAM	1	1	18.38			19.5 0.0
100	256QAM	1	1	18.37			19.5 0.0
Channel				633000	633334	633668	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02	
90	QPSK	1	123	18.06	18.18	17.96	19.5 0.0
Channel				632668	633334	634000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3480.02	3500.01	3510	
80	QPSK	1	109	18.04	18.17	18.01	19.5 0.0
Channel				632334	633334	634334	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01	
70	QPSK	1	95	18.14	18.10	18.07	19.5 0.0
Channel				632000	633334	634668	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02	
60	QPSK	1	81	18.11	18.21	18.01	19.5 0.0
Channel				631668	633334	635000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525	
50	QPSK	1	67	18.13	18.20	18.04	19.5 0.0
Channel				631334	633334	635334	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	
40	QPSK	1	53	18.07	18.13	18.02	19.5 0.0
Channel				631000	633334	635668	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02	
30	QPSK	1	39	18.11	18.17	17.98	19.5 0.0
Channel				630668	633334	636000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	25	18.13	18.10	17.96	19.5 0.0
Channel				630334	633334	636334	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01	
15	QPSK	1	19	18.07	18.17	17.95	19.5 0.0
Channel				630334	633334	636334	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01	
10	QPSK	1	12	18.15	18.15	17.95	19.5 0.0

Reduced Power Mode for Main PA DS11 ENDC								
n7 Ant 3 DS11 for ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	19.31	19.42	19.33	20.0	0.0
50	PI/2 BPSK	1	135	19.29	19.31	19.26		
50	PI/2 BPSK	1	268	19.35	19.42	19.32		
50	PI/2 BPSK	135	0	19.30	19.30	19.31		
50	PI/2 BPSK	135	68	19.26	19.36	19.23	20.0	0.0
50	PI/2 BPSK	135	135	19.33	19.41	19.32		
50	PI/2 BPSK	270	0	19.32	19.42	19.27		
50	QPSK	1	1	19.36	19.36	19.24	20.0	0.0
50	QPSK	1	135	19.26	19.25	19.26		
50	QPSK	1	268	19.38	19.45	19.39		
50	QPSK	135	0	19.34	19.39	19.22		
50	QPSK	135	68	19.36	19.42	19.32	20.0	0.0
50	QPSK	135	135	19.31	19.29	19.24		
50	QPSK	270	0	19.36	19.44	19.34		
50	16QAM	1	1	19.27	19.37	19.21	20.0	0.0
50	64QAM	1	1	19.31	19.37	19.36		
50	256QAM	1	1	19.33	19.37	19.28		
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550	20.0	0.0
40	QPSK	1	1	19.26	19.35	19.21		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	20.0	0.0
30	QPSK	1	1	19.31	19.32	19.19		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	20.0	0.0
25	QPSK	1	1	19.32	19.31	19.19		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	20.0	0.0
20	QPSK	1	1	19.32	19.33	19.16		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	20.0	0.0
15	QPSK	1	1	19.26	19.34	19.19		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	20.0	0.0
10	QPSK	1	1	19.26	19.30	19.21		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	20.0	0.0
5	QPSK	1	1	19.27	19.30	19.15		

n5 Ant 4 DSI1 for END C								
BW [MHz]	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	21.2	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	20.22	20.15	20.16	21.2	0.0
20	PI/2 BPSK	1	53	20.14	20.15	20.13		
20	PI/2 BPSK	1	104	20.29	20.29	20.10	21.2	0.0
20	PI/2 BPSK	50	0	20.18	20.28	20.15		
20	PI/2 BPSK	50	28	20.14	20.23	20.16	21.2	0.0
20	PI/2 BPSK	50	56	20.24	20.27	20.16		
20	PI/2 BPSK	100	0	20.19	20.22	20.18	21.2	0.0
20	QPSK	1	1	20.25	20.32	20.29		
20	QPSK	1	53	20.25	20.29	20.19	21.2	0.0
20	QPSK	1	104	20.25	20.24	20.25		
20	QPSK	50	0	20.20	20.20	20.18	21.2	0.0
20	QPSK	50	28	20.21	20.30	20.23		
20	QPSK	50	56	20.24	20.17	20.20	21.2	0.0
20	QPSK	100	0	20.24	20.16	20.16		
20	16QAM	1	1	20.15	20.28	20.17	21.2	0.0
20	64QAM	1	1	20.27	20.30	20.15		
20	256QAM	1	1	20.13	20.30	20.19	21.2	0.0
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.17	20.26	20.17	21.2	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.22	20.29	20.26	21.2	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	20.17	20.26	20.22	21.2	0.0

n38 Ant 3 DSI1 for ENDC									
BW [MHz]	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	20.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.33	19.34	19.26	20.0	0.0	
40	PI/2 BPSK	1	53	19.26	19.22	19.29			
40	PI/2 BPSK	1	104	19.25	19.31	19.18	20.0	0.0	
40	PI/2 BPSK	50	0	19.22	19.32	19.20			
40	PI/2 BPSK	50	28	19.18	19.25	19.27	20.0	0.0	
40	PI/2 BPSK	50	56	19.24	19.38	19.30			
40	PI/2 BPSK	100	0	19.19	19.23	19.19	20.0	0.0	
40	QPSK	1	1	19.30	19.40	19.30			
40	QPSK	1	53	19.21	19.25	19.25	20.0	0.0	
40	QPSK	1	104	19.20	19.32	19.26			
40	QPSK	50	0	19.19	19.26	19.24	20.0	0.0	
40	QPSK	50	28	19.26	19.35	19.30			
40	QPSK	50	56	19.19	19.30	19.26	20.0	0.0	
40	QPSK	100	0	19.27	19.33	19.24			
40	16QAM	1	1	19.18	19.28	19.23	20.0	0.0	
40	64QAM	1	1	19.25	19.34	19.21			
40	256QAM	1	1	19.22	19.30	19.27	20.0	0.0	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.28	19.34	19.24	20.0	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2582.52	2595	2607.48	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	19.22	19.38	19.22	20.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.27	19.33	19.22	20.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.25	19.30	19.20	20.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.30	19.33	19.29	20.0	0.0	
Channel				514500	519000	523500			
Frequency (MHz)				2572.53	2595	2617.50	Tune-up limit (dBm)	MPR (dB)	

n41 Ant 3 DSI1 for ENDC									
BW [MHz]	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	20.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.20	19.36	19.29	20.0	0.0	
100	PI/2 BPSK	1	137	19.23	19.29	19.28			
100	PI/2 BPSK	1	271	19.30	19.34	19.26	20.0	0.0	
100	PI/2 BPSK	135	0	19.14	19.35	19.24			
100	PI/2 BPSK	135	69	19.21	19.35	19.25	20.0	0.0	
100	PI/2 BPSK	135	138	19.27	19.35	19.29			
100	PI/2 BPSK	270	0	19.21	19.34	19.19	20.0	0.0	
100	QPSK	1	1	19.24	19.38	19.29			
100	QPSK	1	137	19.27	19.35	19.25	20.0	0.0	
100	QPSK	1	271	19.23	19.35	19.23			
100	QPSK	135	0	19.19	19.31	19.29	20.0	0.0	
100	QPSK	135	69	19.29	19.34	19.29			
100	QPSK	135	138	19.31	19.32	19.23	20.0	0.0	
100	QPSK	270	0	19.21	19.32	19.22			
100	16QAM	1	1	19.20	19.25	19.24	20.0	0.0	
100	64QAM	1	1	19.28	19.37	19.16			
100	256QAM	1	1	19.28	19.34	19.31	20.0	0.0	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	19.22	19.35	19.26	20.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	19.20	19.33	19.23	20.0	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	81	19.23	19.37	19.26	20.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	19.15	19.35	19.18	20.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	19.20	19.31	19.26	20.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	39	19.23	19.30	19.23	20.0	0.0	
Channel				501204.00	518598.00	535998.00			
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	19.17	19.32	19.27	20.0	0.0	
Channel				500700.00	518598.00	536496.00			
Frequency (MHz)				2503.50	2592.99	2682.48	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	19.16	19.37	19.18	20.0	0.0	
Channel				500302.00	518598.00	537000.00			
Frequency (MHz)				2501.01	2592.99	2685.00	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	19.13	19.33	19.18	20.0	0.0	
Channel				500000.00	518598.00	537500.00			
Frequency (MHz)				2500.00	2592.99	2685.00	Tune-up limit (dBm)	MPR (dB)	

Par270 n77 PC2&3 Ant 5 DSI1 for ENDC

BW [MHz]	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	PV2 BPSK	1	1	13.09	13.10	13.02		
100	PV2 BPSK	1	137	13.05	13.06	12.95	14.5	0.0
100	PV2 BPSK	1	271	13.05	13.12	12.99		
100	PV2 BPSK	135	0	13.09	13.03	13.05	14.5	0.0
100	PV2 BPSK	135	69	12.96	13.11	13.11	14.5	0.0
100	PV2 BPSK	135	138	13.05	13.11	13.09		
100	PV2 BPSK	270	0	13.04	13.11	13.10		
100	QPSK	1	1	13.06	13.10	13.11		
100	QPSK	1	137	12.97	13.06	13.05	14.5	0.0
100	QPSK	1	271	13.03	13.12	13.04		
100	QPSK	135	0	12.97	13.10	13.03	14.5	0.0
100	QPSK	135	69	13.04	13.14	13.08		
100	QPSK	135	138	13.01	13.02	13.06	14.5	0.0
100	QPSK	270	0	13.07	13.11	13.08		
100	16QAM	1	1	13.10	13.11	13.10	14.5	0.0
100	64QAM	1	1	13.10	13.14	13.08	14.5	0.0
100	256QAM	1	1	13.10	13.11	13.06	14.5	0.0
Channel				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	123	13.03	13.13	13.08	14.5	0.0
Channel				649334	650000	650968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3740	3840.02		
80	QPSK	1	109	12.99	13.12	13.03	14.5	0.0
Channel				649668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	13.01	13.12	13.09	14.5	0.0
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	12.98	13.08	13.03	14.5	0.0
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	12.98	13.06	13.03	14.5	0.0
Channel				647224	650000	654568	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	12.97	13.12	13.08	14.5	0.0
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.23	3750	3972.51		
15	QPSK	1	19	13.07	13.07	13.13	14.5	0.0
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	13.00	13.09	13.10	14.5	0.0

Part27Q n77 PC2&3 Ant 5 DSI1 for ENDC

BW [MHz]	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	633334			
100	PV2 BPSK	1	1		13.07			
100	PV2 BPSK	1	137		13.08		14.5	0.0
100	PV2 BPSK	1	271		13.10			
100	PV2 BPSK	135	0		13.06		14.5	0.0
100	PV2 BPSK	135	69		13.09		14.5	0.0
100	PV2 BPSK	135	138		13.06		14.5	0.0
100	PV2 BPSK	270	0		13.07			
100	QPSK	1	1		13.14			
100	QPSK	1	137		13.08		14.5	0.0
100	QPSK	1	271		13.10			
100	QPSK	135	0		13.11		13.5	1.0
100	QPSK	135	69		13.12		14.5	0.0
100	QPSK	135	138		13.07		13.5	1.0
100	QPSK	270	0		13.08			
100	16QAM	1	1		13.08		14.5	0.0
100	64QAM	1	1		13.12		14.5	0.0
100	256QAM	1	1		13.10		14.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	13.03	13.10	12.91	14.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	13.05	13.01	12.95	14.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3505.02		
60	QPSK	1	81	13.10	13.02	13.01	14.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	13.03	13.09	12.95	14.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3505.01	3530.01		
40	QPSK	1	53	13.03	13.04	12.99	14.5	0.0
Channel				630668	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	13.01	13.05	13.00	14.5	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.23	3503.01	3542.52		
15	QPSK	1	19	13.09	13.10	12.91	14.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	13.04	13.06	12.90	14.5	0.0

Part27O n78 PC2&3 Ant 5 DSI1 for ENDC

BW [MHz]	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	PV2 BPSK	1	1		13.08			
100	PV2 BPSK	1	137		13.09		14.5	0.0
100	PV2 BPSK	1	271		13.08			
100	PV2 BPSK	135	0		13.09		14.5	0.0
100	PV2 BPSK	135	69		13.01		14.5	0.0
100	PV2 BPSK	135	138		13.10		14.5	0.0
100	PV2 BPSK	270	0		13.04			
100	QPSK	1	1		13.11			
100	QPSK	1	137		13.04		14.5	0.0
100	QPSK	1	271		13.09			
100	QPSK	135	0		13.08		13.5	1.0
100	QPSK	135	69		13.10		14.5	0.0
100	QPSK	135	138		13.09		13.5	1.0
100	QPSK	270	0		13.05			
100	16QAM	1	1		12.99		14.5	0.0
100	64QAM	1	1		12.98		14.5	0.0
100	256QAM	1	1		13.04		14.5	0.0
Channel				648868	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	12.94	12.94	12.86	14.5	0.0
Channel				648334	650000	650968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	12.91	13.00	12.85	14.5	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	95	12.94	12.96	12.89	14.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3760.01		
60	QPSK	1	81	12.97	12.97	12.89	14.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	13.00	12.98	12.91	14.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	12.96	13.02	12.85	14.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.02	3750	3783.01		
30	QPSK	1	39	13.00	13.05	12.87	14.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	12.93	13.01	12.85	14.5	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.23	3750	3792.51		
15	QPSK	1	19	13.00	13.05	12.83	14.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	12	12.91	12.96	12.90	14.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				633334			14.5	0.0
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	13.04			14.5	0.0
100	PI2 BPSK	1	137	12.98				
100	PI2 BPSK	1	271	12.91				
100	PI2 BPSK	135	0	13.00			14.5	0.0
100	PI2 BPSK	135	69	12.99			14.5	0.0
100	PI2 BPSK	135	138	12.94			14.5	0.0
100	PI2 BPSK	270	0	13.00			14.5	0.0
100	QPSK	1	1	13.05				
100	QPSK	1	137	13.07				
100	QPSK	1	271	12.95			13.5	1.0
100	QPSK	135	0	12.92				
100	QPSK	135	69	13.03				
100	QPSK	135	138	13.00			13.5	1.0
100	QPSK	270	0	13.02			14.5	0.0
100	16QAM	1	1	13.00				
100	64QAM	1	1	13.02				
100	256QAM	1	1	13.02			14.5	0.0
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3485	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	123	12.88	13.03	12.92	14.5	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	109	12.97	13.04	13.01	14.5	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	95	12.94	12.97	12.93	14.5	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	81	12.97	12.97	12.96	14.5	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	67	12.91	13.07	12.94	14.5	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	53	12.87	13.04	13.01	14.5	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	39	12.97	13.08	12.93	14.5	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	26	12.90	13.00	12.94	14.5	0.0
Channel				630500	633334	636168	Tune-up limit	MPR
Frequency (MHz)				3451.5	3500.01	3542.5	(dBm)	(dB)
15	QPSK	1	19	12.98	13.07	12.98	14.5	0.0
Channel				630334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	12	12.90	12.99	12.93	14.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	24.5	0.0
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	22.97	22.94	22.90		
20	PI2 BPSK	1	53	22.99	23.02	22.96	24.0	0.5
20	PI2 BPSK	1	104	22.79	22.97	22.81		
20	PI2 BPSK	50	0	22.51	22.58	22.45		
20	PI2 BPSK	50	28	22.99	23.02	22.94	24.0	0.5
20	PI2 BPSK	50	56	22.43	22.56	22.43		
20	PI2 BPSK	100	0	22.46	22.59	22.51		
20	QPSK	1	1	22.93	23.07	22.86	24.5	0.0
20	QPSK	1	53	22.99	23.01	22.94		
20	QPSK	1	104	22.79	22.88	22.84		
20	QPSK	50	0	21.96	22.08	22.03	23.5	1.0
20	QPSK	50	28	22.92	23.05	22.91		
20	QPSK	50	56	22.00	22.07	22.05		
20	QPSK	100	0	22.06	22.12	22.03	23.5	1.0
20	16QAM	1	1	21.76	21.79	21.75		
20	64QAM	1	1	20.29	20.40	20.35		
20	256QAM	1	1	18.90	19.03	18.97	20.0	4.5
Channel				371000	376000	380000		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	22.87	22.93	22.93	24.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1900	1900	1900		
10	QPSK	1	1	22.84	23.01	22.90		
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5		
5	QPSK	1	1	22.89	23.02	22.86		

Reduced Power Mode for Main PA DSI2

n5 Ant 1 DSI2

BW [MHz]	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	167500	167800	25.7	0.0
Frequency (MHz)				834	836.5	838		
20	PI2 BPSK	1	1	24.20	24.27	24.15		
20	PI2 BPSK	1	53	24.39	24.45	24.36	25.2	0.5
20	PI2 BPSK	1	104	24.35	24.47	24.34		
20	PI2 BPSK	50	0	23.96	24.09	23.99		
20	PI2 BPSK	50	28	24.39	24.45	24.31	25.7	0.0
20	PI2 BPSK	50	56	24.01	24.09	24.01		
20	PI2 BPSK	100	0	24.03	24.08	23.98		
20	QPSK	1	1	24.49	24.58	24.50	25.7	0.0
20	QPSK	1	53	24.32	24.43	24.35		
20	QPSK	1	104	24.31	24.38	24.29		
20	QPSK	50	0	23.48	23.61	23.54	24.7	1.0
20	QPSK	50	28	24.39	24.47	24.38		
20	QPSK	50	56	23.06	23.11	23.09		
20	QPSK	100	0	23.55	23.65	23.52	24.7	1.0
20	16QAM	1	1	23.10	23.22	23.18		
20	64QAM	1	1	21.70	21.81	21.77		
20	256QAM	1	1	20.31	20.42	20.36	21.2	4.5
Channel				165300	165900	166500		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.39	24.51	24.38	25.7	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				820	835	844		
10	QPSK	1	1	24.39	24.50	24.45		
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.45	24.48	24.46		

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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				505000	507000	509000	25.0	0.0
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	23.38	23.45	23.37		
50	PI2 BPSK	1	135	23.38	23.44	23.41	25.0	0.0
50	PI2 BPSK	1	268	23.31	23.33	23.19		
50	PI2 BPSK	135	0	22.90	23.00	22.90		
50	PI2 BPSK	135	68	23.35	23.40	23.35	24.5	0.5
50	PI2 BPSK	135	135	23.02	23.15	23.13		
50	PI2 BPSK	270	0	22.94	23.04	22.96		
50	QPSK	1	1	23.38	23.41	23.35	25.0	0.0
50	QPSK	1	135	23.33	23.46	23.34		
50	QPSK	1	268	23.49	23.52	23.45		
50	QPSK	135	0	22.44	22.50	22.38	24.0	1.0
50	QPSK	135	68	23.34	23.42	23.38		
50	QPSK	135	135	22.54	22.63	22.57		
50	QPSK	270	0	22.50	22.58	22.45	24.0	1.0
50	16QAM	1	1	22.12	22.26	22.12		
50	64QAM	1	1	20.75	20.85	20.81		
50	256QAM	1	1	19.04	19.03	19.00	20.5	4.5
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	23.38	23.48	23.37	25.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.44	23.46	23.39		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.38	23.40	23.38	25.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	23.37	23.40	23.35	25.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.48	23.49	23.32	25.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.40	23.40	23.40	25.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.48	23.47	23.40	25.0	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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	Pl2 BPSK	1	1	22.60	22.67	22.83	24.5	0.0	
40	Pl2 BPSK	1	108	22.59	22.72	22.80			
40	Pl2 BPSK	1	214	22.82	22.85	22.85			
40	Pl2 BPSK	108	0	22.60	22.72	22.86	24.5	0.0	
40	Pl2 BPSK	108	54	22.64	22.89	22.59	24.5	0.0	
40	Pl2 BPSK	108	108	22.64	22.82	22.57	24.5	0.0	
40	Pl2 BPSK	216	0	22.68	22.82	22.82			
40	QPSK	1	1	22.69	22.75	22.70			
40	QPSK	1	108	22.66	22.72	22.57	24.5	0.0	
40	QPSK	1	214	22.59	22.73	22.86	24.5	0.0	
40	QPSK	108	0	22.61	22.72	22.57			
40	QPSK	108	54	22.58	22.89	22.87			
40	QPSK	108	108	22.64	22.83	22.58	24.5	0.0	
40	QPSK	216	0	22.56	22.82	22.83			
40	16QAM	1	1	22.56	22.59	22.57	24.5	0.0	
40	64QAM	1	1	21.19	21.29	21.17	23.0	1.5	
40	256QAM	1	1	19.15	19.30	19.15	21.0	3.5	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1725	1745	1765	(dbm)	(db)	
30	QPSK	1	1	22.65	22.67	22.57	24.5	0.0	
Channel				344500	349000	353500	Tune-up limit	MPR	
Frequency (MHz)				1722.5	1745	1767.5	(dbm)	(db)	
25	QPSK	1	1	22.55	22.82	22.66	24.5	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dbm)	(db)	
20	QPSK	1	1	22.60	22.84	22.57	24.5	0.0	
Channel				343500	349000	354500	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dbm)	(db)	
15	QPSK	1	1	22.62	22.82	22.85	24.5	0.0	
Channel				343000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dbm)	(db)	
10	QPSK	1	1	22.62	22.71	22.80	24.5	0.0	
Channel				342500	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dbm)	(db)	
5	QPSK	1	1	22.54	22.84	22.86	24.5	0.0	

n7 Ant 3 DSI2									
Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	23.62	23.70	23.63			
50	PI/2 BPSK	1	135	23.62	23.68	23.54	24.5	0.0	
50	PI/2 BPSK	1	268	23.62	23.71	23.51			
50	PI/2 BPSK	135	0	23.28	23.35	23.24	24.0	0.5	
50	PI/2 BPSK	135	68	23.57	23.79	23.58	24.5	0.0	
50	PI/2 BPSK	135	135	23.27	23.33	23.25			
50	PI/2 BPSK	270	0	23.27	23.41	23.32	24.0	0.5	
50	QPSK	1	1	23.78	23.77	23.66			
50	QPSK	1	135	23.67	23.75	23.67	24.5	0.0	
50	QPSK	1	268	23.81	23.86	23.79			
50	QPSK	135	0	22.77	22.82	22.81	23.5	1.0	
50	QPSK	135	68	23.67	23.81	23.65	24.5	0.0	
50	QPSK	135	135	22.78	22.84	22.75			
50	QPSK	270	0	22.81	22.85	22.79	23.5	1.0	
50	16QAM	1	1	22.82	22.82	22.77	23.5	1.0	
50	64QAM	1	1	21.32	21.37	21.34	22.0	2.5	
50	256QAM	1	1	19.33	19.37	19.28	20.0	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	23.64	23.75	23.55	24.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	23.57	23.74	23.60	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	23.65	23.75	23.54	24.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	23.53	23.76	23.57	24.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.59	23.69	23.52	24.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.58	23.72	23.59	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	23.56	23.77	23.52	24.5	0.0	

n2 Ant 4 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.92	21.95	21.97		
20	PI2 BPSK	1	53	21.93	22.03	21.88	23.5	0.0
20	PI2 BPSK	1	104	21.90	21.96	21.94		
20	PI2 BPSK	50	0	21.47	21.57	21.53	23.0	0.5
20	PI2 BPSK	50	28	21.94	21.93	21.94	23.5	0.0
20	PI2 BPSK	50	56	21.54	21.56	21.47	23.0	0.5
20	PI2 BPSK	100	0	21.48	21.51	21.51		
20	QPSK	1	1	22.00	22.06	22.01		
20	QPSK	1	53	21.87	22.03	21.88	23.5	0.0
20	QPSK	1	104	21.87	21.94	21.98		
20	QPSK	50	0	21.05	21.11	21.04	22.5	1.0
20	QPSK	50	28	21.95	21.99	21.97	23.5	0.0
20	QPSK	50	56	21.00	21.05	21.04	22.5	1.0
20	QPSK	100	0	21.02	21.05	20.99		
20	16QAM	1	1	20.94	21.09	21.02	22.5	1.0
20	64QAM	1	1	19.56	19.53	19.48	21.0	2.5
20	256QAM	1	1	17.55	17.57	17.47	19.0	4.5
Channel				371500	370000	368500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	21.95	22.00	21.91	23.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1905	1900	1905		
10	QPSK	1	1	21.96	21.95	21.94	23.5	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5		
5	QPSK	1	1	21.97	21.96	21.98	23.5	0.0

n5 Ant 4 DSI2

BW [MHz]	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	PI2 BPSK	1	1	24.42	24.50	24.46		
20	PI2 BPSK	1	53	24.41	24.49	24.38	25.7	0.0
20	PI2 BPSK	1	104	24.43	24.53	24.47		
20	PI2 BPSK	50	0	24.01	24.07	23.95	25.2	0.5
20	PI2 BPSK	50	28	24.47	24.53	24.43	25.7	0.0
20	PI2 BPSK	50	56	24.01	24.09	23.96	25.2	0.5
20	PI2 BPSK	100	0	24.05	24.05	24.06		
20	QPSK	1	1	24.52	24.59	24.50		
20	QPSK	1	53	24.39	24.48	24.39	25.7	0.0
20	QPSK	1	104	24.46	24.46	24.42		
20	QPSK	50	0	23.46	23.62	23.47	24.7	1.0
20	QPSK	50	28	24.39	24.56	24.47	25.7	0.0
20	QPSK	50	56	23.50	23.61	23.47	24.7	1.0
20	QPSK	100	0	23.63	23.57	23.51		
20	16QAM	1	1	23.47	23.60	23.46	24.7	1.0
20	64QAM	1	1	22.08	22.14	21.99	23.2	2.5
20	256QAM	1	1	19.96	20.13	20.02	21.2	4.5
Channel				165300	167200	167500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.47	24.55	24.48	25.7	0.0
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.44	24.48	24.42	25.7	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.47	24.46	24.45	25.7	0.0

n7 Ant 4 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	23.35	23.41	23.38		
50	PI2 BPSK	1	135	23.36	23.39	23.33	25.0	0.0
50	PI2 BPSK	1	268	23.36	23.40	23.35		
50	PI2 BPSK	135	0	23.01	23.04	23.00	24.5	0.5
50	PI2 BPSK	135	68	23.38	23.40	23.31	25.0	0.0
50	PI2 BPSK	135	135	23.02	22.99	22.97	24.5	0.5
50	PI2 BPSK	270	0	22.96	22.98	22.97		
50	QPSK	1	1	23.44	23.43	23.42		
50	QPSK	1	135	23.36	23.43	23.37	25.0	0.0
50	QPSK	1	268	23.46	23.52	23.45		
50	QPSK	135	0	22.49	22.53	22.50	24.0	1.0
50	QPSK	135	68	23.39	23.44	23.39	25.0	0.0
50	QPSK	135	135	22.47	22.49	22.43	24.0	1.0
50	QPSK	270	0	22.46	22.48	22.43		
50	16QAM	1	1	22.50	22.57	22.44	24.0	1.0
50	64QAM	1	1	20.99	21.01	20.96	22.5	2.5
50	256QAM	1	1	18.93	19.05	18.90	20.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	23.37	23.41	23.34	25.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2315	2335	2355		
30	QPSK	1	1	23.39	23.45	23.34	25.0	0.0
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.41	23.45	23.33	25.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	23.40	23.45	23.37	25.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.38	23.41	23.40	25.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.34	23.47	23.38	25.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.40	23.39	23.38	25.0	0.0

n38 Ant 1 DSI2									
BW [MHz]	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	25.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	23.29	23.35	23.35	25.0	0.0	
40	PI/2 BPSK	1	53	23.31	23.36	23.33			
40	PI/2 BPSK	1	104	23.32	23.40	23.33	24.5	0.5	
40	PI/2 BPSK	50	0	22.95	22.93	22.89			
40	PI/2 BPSK	50	28	23.33	23.37	23.38	25.0	0.0	
40	PI/2 BPSK	50	56	22.87	22.98	22.84			
40	PI/2 BPSK	100	0	22.91	22.97	22.95	24.5	0.5	
40	QPSK	1	1	23.42	23.47	23.40			
40	QPSK	1	53	23.38	23.39	23.31	25.0	0.0	
40	QPSK	1	104	23.33	23.40	23.30			
40	QPSK	50	0	22.43	22.43	22.42	24.0	1.0	
40	QPSK	50	28	23.38	23.42	23.30			
40	QPSK	50	56	22.47	22.50	22.39	24.0	1.0	
40	QPSK	100	0	22.37	22.53	22.43			
40	16QAM	1	1	22.44	22.48	22.35	24.0	1.0	
40	64QAM	1	1	20.92	20.95	20.86			
40	256QAM	1	1	18.88	18.99	18.91	20.5	4.5	
Channel				517002	519000	520998	25.0	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	23.40	23.43	23.29	25.0	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2582.52	2595	2607.48	25.0	0.0	
25	QPSK	1	1	23.32	23.42	23.35			
Channel				516000	519000	522000	25.0	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	23.34	23.37	23.33	25.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49	25.0	MPR (dB)	
15	QPSK	1	1	23.39	23.43	23.33			
Channel				515004	519000	522996	25.0	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	23.32	23.41	23.27	25.0	0.0	

n41 Ant 1 DSI2									
BW [MHz]	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	23.35	23.45	23.41	25.0	0.0	
100	PI/2 BPSK	1	137	23.40	23.35	23.35			
100	PI/2 BPSK	1	271	23.35	23.47	23.35	24.5	0.5	
100	PI/2 BPSK	135	0	23.01	22.95	22.98			
100	PI/2 BPSK	135	69	23.41	23.43	23.45	25.0	0.0	
100	PI/2 BPSK	135	138	22.96	23.08	22.91			
100	PI/2 BPSK	270	0	22.91	23.06	23.00	24.5	0.5	
100	QPSK	1	1	23.51	23.53	23.48			
100	QPSK	1	137	23.44	23.44	23.37	25.0	0.0	
100	QPSK	1	271	23.40	23.46	23.38			
100	QPSK	135	0	22.45	22.53	22.42	24.0	1.0	
100	QPSK	135	69	23.43	23.51	23.31			
100	QPSK	135	138	22.48	22.51	22.43	25.0	0.0	
100	QPSK	270	0	22.45	22.56	22.44			
100	16QAM	1	1	22.47	22.47	22.41	24.0	1.0	
100	64QAM	1	1	20.95	21.05	20.88			
100	256QAM	1	1	18.94	19.06	18.96	20.5		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.48	23.47	23.39	25.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	23.48	23.51	23.34			
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.45	23.47	23.39	25.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	23.42	23.40	23.46			
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.40	23.51	23.44	25.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.48	23.49	23.40			
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.44	23.41	23.46	25.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.38	23.45	23.43			
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	23.48	23.43	23.40	25.0		

n48 Ant 2 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	646332			
Frequency (MHz)				3520	3624.99	3680			
40	Pi2 BPSK	1	1	18.15	18.16	18.13			
40	Pi2 BPSK	1	53	18.14	18.22	18.13	19.5	0.0	
40	Pi2 BPSK	1	104	18.13	18.21	18.18			
40	Pi2 BPSK	50	0	18.16	18.20	18.17	19.5	0.0	
40	Pi2 BPSK	50	28	18.15	18.18	18.14	19.5	0.0	
40	Pi2 BPSK	50	56	18.12	18.22	18.19	19.5	0.0	
40	Pi2 BPSK	100	0	18.18	18.18	18.15			
40	QPSK	1	1	18.19	18.28	18.22			
40	QPSK	1	53	18.17	18.19	18.11	19.5	0.0	
40	QPSK	1	104	18.19	18.21	18.15			
40	QPSK	50	0	18.22	18.23	18.20	19.5	0.0	
40	QPSK	50	28	18.16	18.24	18.19	19.5	0.0	
40	QPSK	50	56	18.20	18.22	18.20	19.5	0.0	
40	QPSK	100	0	18.20	18.27	18.15			
40	16QAM	1	1	18.22	18.16	18.14	19.5	0.0	
40	64QAM	1	1	16.73	16.73	16.69	18.0	1.5	
40	256QAM	1	1	14.03	14.73	14.68	16.0	3.5	
Channel				637068	641666	646366	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	18.19	18.20	18.13	19.5	0.0	
Channel				637334	641666	646300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3568.03	3624.99	3680.00			
20	QPSK	1	1	18.12	18.17	18.20	19.5	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3652.48			
16	QPSK	1	1	18.15	18.19	18.11	19.5	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565	3624.99	3695			
10	QPSK	1	1	18.17	18.16	18.12	19.5	0.0	

Par270 n77 PC2&3 Ant 2 DSI2									
BW (MHz)	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	Pi2 BPSK	1	1	17.44	17.56	17.49			
100	Pi2 BPSK	1	137	17.43	17.49	17.42	19.0	0.0	
100	Pi2 BPSK	1	271	17.46	17.50	17.42			
100	Pi2 BPSK	135	0	17.43	17.53	17.49	19.0	0.0	
100	Pi2 BPSK	135	69	17.46	17.56	17.52	19.0	0.0	
100	Pi2 BPSK	135	138	17.42	17.53	17.43	19.0	0.0	
100	Pi2 BPSK	270	0	17.39	17.52	17.43			
100	QPSK	1	1	17.48	17.56	17.46			
100	QPSK	1	137	17.42	17.52	17.48	19.0	0.0	
100	QPSK	1	271	17.45	17.51	17.45			
100	QPSK	135	0	17.45	17.52	17.44	19.0	0.0	
100	QPSK	135	69	17.46	17.55	17.45	19.0	0.0	
100	QPSK	135	138	17.45	17.53	17.48	19.0	0.0	
100	QPSK	270	0	17.41	17.53	17.44			
100	16QAM	1	1	17.49	17.52	17.47	19.0	0.0	
100	64QAM	1	1	17.44	17.49	17.47	19.0	0.0	
100	256QAM	1	1	16.51	16.46	16.37	18.0	1.0	
Channel				645968	650000	654032	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	17.42	17.54	17.38	19.0	0.0	
Channel				646334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3930.01			
80	QPSK	1	109	17.40	17.52	17.37	19.0	0.0	
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3920.01			
60	QPSK	1	81	17.39	17.50	17.44	19.0	0.0	
Channel				646334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3925.02			
50	QPSK	1	67	17.37	17.52	17.43	19.0	0.0	
Channel				646000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	17.44	17.54	17.35	19.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3910.02			
20	QPSK	1	26	17.43	17.55	17.44	19.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	17.37	17.54	17.42	19.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3995			
10	QPSK	1	12	17.47	17.53	17.36	19.0	0.0	

Part27Q n77 PC2&3 Ant 2 DSI2									
BW [MHz]	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	Pi2 BPSK	1	1		17.69				
100	Pi2 BPSK	1	137		17.71		19.0	0.0	
100	Pi2 BPSK	1	271		17.65				
100	Pi2 BPSK	135	0		17.67		19.0	0.0	
100	Pi2 BPSK	135	69		17.67		19.0	0.0	
100	Pi2 BPSK	135	138		17.68		19.0	0.0	
100	Pi2 BPSK	270	0		17.65				
100	QPSK	1	1		17.74				
100	QPSK	1	137		17.71		19.0	0.0	
100	QPSK	1	271		17.63				
100	QPSK	135	0		17.65		19.0	0.0	
100	QPSK	135	69		17.73		19.0	0.0	
100	QPSK	135	138		17.63		19.0	0.0	
100	QPSK	270	0		17.72				
100	16QAM	1	1		17.71		19.0	0.0	
100	64QAM	1	1		17.72		19.0	0.0	
100	256QAM	1	1		16.73		16.0	1.0	
Channel				633000	633334	633668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123		17.51	17.54	17.39	19.0	0.0
Channel				630668	633334	634000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109		17.56	17.58	17.41	19.0	0.0
Channel				630000	633334	634668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81		17.49	17.53	17.43	19.0	0.0
Channel				631668	633334	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67		17.52	17.55	17.42	19.0	0.0
Channel				631334	633334	635332	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53		17.54	17.54	17.46	19.0	0.0
Channel				630668	633334	636000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26		17.54	17.51	17.44	19.0	0.0
Channel				630000	633334	636168	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19		17.53	17.57	17.57	19.0	0.0
Channel				630334	633334	636334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12		17.56	17.52	17.47	19.0	0.0



Part270 n78 Ant 2 DSI2									
BW [MHz]	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	PQ2 BPSK	1	1	3750	3750	3750			
100	PQ2 BPSK	1	137		18.09				
100	PQ2 BPSK	1	271		18.08		19.5	0.0	
100	PQ2 BPSK	135	0		17.83		19.0	0.5	
100	PQ2 BPSK	135	69		17.93		19.5	0.0	
100	PQ2 BPSK	135	138		17.81		19.0	0.5	
100	PQ2 BPSK	270	0		17.85				
100	QPSK	1	1		18.12				
100	QPSK	1	137		18.03		19.5	0.0	
100	QPSK	1	271		18.05				
100	QPSK	135	0		17.16		18.5	1.0	
100	QPSK	135	69		18.00		19.5	0.0	
100	QPSK	135	138		17.08		18.5	1.0	
100	QPSK	270	0		17.05				
100	16QAM	1	1		17.13		18.5	1.0	
100	64QAM	1	1		15.58		17.0	2.5	
100	256QAM	1	1		13.60		15.0	4.5	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	123		18.03	18.04	18.04	19.5	0.0
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109		17.96	18.06	18.04	19.5	0.0
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	96		17.90	17.99	17.89	19.5	0.0
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81		18.02	18.05	18.02	19.5	0.0
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67		18.05	18.08	18.03	19.5	0.0
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53		18.04	18.04	18.02	19.5	0.0
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3795.01			
30	QPSK	1	39		18.01	17.97	18.04	19.5	0.0
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26		17.98	17.97	18.03	19.5	0.0
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795			
15	QPSK	1	19		18.00	18.02	17.99	19.5	0.0
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12		18.02	18.01	18.05	19.5	0.0

Part270 n78 HPUE Ant 2 DSI2									
BW [MHz]	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	PQ2 BPSK	1	1	3750	3750	3750			
100	PQ2 BPSK	1	137		18.68		20.0	0.0	
100	PQ2 BPSK	1	271		18.62				
100	PQ2 BPSK	135	0		18.66		20.0	0.0	
100	PQ2 BPSK	135	69		18.64		20.0	0.0	
100	PQ2 BPSK	135	138		18.66				
100	PQ2 BPSK	270	0		18.67		20.0	0.0	
100	QPSK	1	1		18.69				
100	QPSK	1	137		18.69		20.0	0.0	
100	QPSK	1	271		18.62				
100	QPSK	135	0		18.63		20.0	0.0	
100	QPSK	135	69		18.68		20.0	0.0	
100	QPSK	135	138		18.65		20.0	0.0	
100	QPSK	270	0		18.65				
100	16QAM	1	1		18.68		20.0	0.0	
100	64QAM	1	1		18.63		20.0	0.0	
100	256QAM	1	1		18.62		18.0	2.0	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	123		18.47	18.46	18.35	20.0	0.0
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109		18.39	18.47	18.36	20.0	0.0
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	96		18.44	18.55	18.39	20.0	0.0
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81		18.41	18.56	18.30	20.0	0.0
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67		18.43	18.50	18.36	20.0	0.0
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53		18.45	18.47	18.40	20.0	0.0
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3795.01			
30	QPSK	1	39		18.40	18.54	18.40	20.0	0.0
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26		18.45	18.46	18.41	20.0	0.0
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19		18.47	18.47	18.38	20.0	0.0
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12		18.39	18.55	18.37	20.0	0.0

Part27Q 78 Ant 2 DSI2									
BW [MHz]	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	PQ2 BPSK	1	1		18.14				
100	PQ2 BPSK	1	137		18.14				
100	PQ2 BPSK	1	271		18.18		19.5	0.0	
100	PQ2 BPSK	135	0		17.74		19.0	0.5	
100	PQ2 BPSK	135	69		18.13		19.5	0.0	
100	PQ2 BPSK	135	138		17.69		19.0	0.5	
100	PQ2 BPSK	270	0		17.69				
100	QPSK	1	1		18.28				
100	QPSK	1	137		18.22		19.5	0.0	
100	QPSK	1	271		18.18				
100	QPSK	135	0		17.21		18.5	1.0	
100	QPSK	135	69		18.22		19.5	0.0	
100	QPSK	135	138		17.27		18.5	1.0	
100	QPSK	270	0		17.27				
100	16QAM	1	1		17.22		18.5	1.0	
100	64QAM	1	1		15.72		17.0	2.5	
100	256QAM	1	1		13.73		15.0	4.5	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3485	3500.01	3505.02			
90	QPSK	1	123		18.13	18.12	18.16	19.5	0.0
Channel				632968	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3480.02	3500.01	3510.01			
80	QPSK	1	109		18.19	18.13	18.13	19.5	0.0
Channel				632334	633334	634334	Tune-up limit	MPR	
Frequency (MHz)				3480.01	3500.01	3515.01			
70	QPSK	1	96		18.13	18.15	18.12	19.5	0.0
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81		18.19	18.14	18.07	19.5	0.0
Channel				631968	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67		18.14	18.14	18.19	19.5	0.0
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53		18.10	18.22	18.12	19.5	0.0
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	39		18.12	18.19	18.09	19.5	0.0
Channel				630568	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26		18.12	18.16	18.14	19.5	0.0
Channel				630000	633334	636168	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3500.01	3542.82			
15	QPSK	1	19		18.14	18.18	18.10	19.5	0.0
Channel				630000	633334	636334	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12		18.14	18.16	18.07	19.5	0.0

Part27Q 78 HPUE Ant 2 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Main Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	18.82	18.82				
100	PQ2 BPSK	1	137	18.83	18.83		20.0	0.0	
100	PQ2 BPSK	1	271	18.80	18.80				
100	PQ2 BPSK	135	0	18.82	18.82		20.0	0.0	
100	PQ2 BPSK	135	69	18.80	18.80		20.0	0.0	
100	PQ2 BPSK	135	138	18.83	18.83		20.0	0.0	
100	PQ2 BPSK	270	0	18.77	18.77				
100	QPSK	1	1	18.85	18.85				
100	QPSK	1	137	18.80	18.80		20.0	0.0	
100	QPSK	1	271	18.82	18.82				
100	QPSK	135	0	18.82	18.82		20.0	0.0	
100	QPSK	135	69	18.84	18.84		20.0	0.0	
100	QPSK	135	138	18.83	18.83		20.0	0.0	
100	QPSK	270	0	18.81	18.81				
100	16QAM	1	1	18.76	18.76		20.0	0.0	
100	64QAM	1	1	18.74	18.74		20.0	0.0	
100	256QAM	1	1	18.77	18.77		18.0	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	18.44	18.61	18.60	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.53	18.59	18.60	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	18.50	18.64	18.59	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	18.46	18.56	18.53	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	18.49	18.57	18.63	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	18.46	18.63	18.62	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	18.43	18.52	18.63	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	25	18.46	18.61	18.59	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	18.47	18.60	18.54	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	18.54	18.63	18.57	20.0	0.0	

n38 Ant 3 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	
Channel							
Frequency (MHz)							
40	PI2 BPSK	1	1	23.65	23.71	23.71	
40	PI2 BPSK	1	53	23.65	23.75	23.72	24.5
40	PI2 BPSK	1	104	23.64	23.68	23.62	
40	PI2 BPSK	50	0	23.16	23.28	23.28	24.0
40	PI2 BPSK	50	28	23.67	23.72	23.69	24.5
40	PI2 BPSK	50	56	23.20	23.27	23.20	24.0
40	PI2 BPSK	100	0	23.18	23.32	23.31	24.0
40	QPSK	1	1	23.71	23.79	23.76	
40	QPSK	1	53	23.67	23.75	23.73	24.5
40	QPSK	1	104	23.68	23.68	23.68	
40	QPSK	50	0	22.89	22.84	22.71	23.5
40	QPSK	50	28	23.62	23.72	23.69	24.5
40	QPSK	50	56	22.70	22.74	22.80	23.5
40	QPSK	100	0	22.73	22.85	22.75	23.5
40	16QAM	1	1	22.74	22.76	22.76	23.5
40	64QAM	1	1	21.26	21.33	21.20	22.0
40	256QAM	1	1	19.22	19.30	19.27	22.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.65	23.67	23.65	24.5
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.64	23.67	23.64	24.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.69	23.67	23.71	24.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.58	23.74	23.73	24.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.65	23.74	23.65	24.5

n41 Ant 3 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.73	23.82	23.79	
100	PI2 BPSK	1	137	23.76	23.80	23.82	24.5
100	PI2 BPSK	1	271	23.75	23.80	23.67	
100	PI2 BPSK	135	0	23.24	23.39	23.31	24.0
100	PI2 BPSK	135	69	23.76	23.82	23.70	24.5
100	PI2 BPSK	135	138	23.23	23.34	23.26	24.0
100	PI2 BPSK	270	0	23.19	23.36	23.42	24.0
100	QPSK	1	1	23.72	23.86	23.79	
100	QPSK	1	107	23.71	23.83	23.80	24.5
100	QPSK	1	271	23.71	23.71	23.70	
100	QPSK	135	0	22.74	22.89	22.71	23.5
100	QPSK	135	69	23.88	23.83	23.76	24.5
100	QPSK	135	138	22.74	22.82	22.87	23.5
100	QPSK	270	0	22.76	22.96	22.82	23.5
100	16QAM	1	1	22.82	22.80	22.87	23.5
100	64QAM	1	1	21.32	21.41	21.21	22.0
100	256QAM	1	1	19.28	19.34	19.31	22.0
Channel							
Frequency (MHz)							
90	QPSK	1	123	23.61	23.79	23.65	24.5
Channel							
Frequency (MHz)							
80	QPSK	1	109	23.59	23.76	23.69	24.5
Channel							
Frequency (MHz)							
60	QPSK	1	81	23.63	23.73	23.71	24.5
Channel							
Frequency (MHz)							
50	QPSK	1	67	23.67	23.80	23.67	24.5
Channel							
Frequency (MHz)							
40	QPSK	1	53	23.58	23.74	23.74	24.5
Channel							
Frequency (MHz)							
30	QPSK	1	39	23.68	23.75	23.73	24.5
Channel							
Frequency (MHz)							
20	QPSK	1	26	23.67	23.81	23.75	24.5
Channel							
Frequency (MHz)							
15	QPSK	1	19	23.61	23.74	23.73	24.5
Channel							
Frequency (MHz)							
10	QPSK	1	12	23.61	23.73	23.74	24.5

n48 Ant 3 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	
Channel							
Frequency (MHz)							
40	PI2 BPSK	1	1	20.41	20.42	20.43	
40	PI2 BPSK	1	53	20.44	20.47	20.46	22.0
40	PI2 BPSK	1	104	20.35	20.48	20.39	
40	PI2 BPSK	50	0	19.93	20.07	20.00	21.5
40	PI2 BPSK	50	28	20.46	20.44	20.47	22.0
40	PI2 BPSK	50	56	19.97	20.09	20.06	21.5
40	PI2 BPSK	100	0	19.98	20.04	20.07	
40	QPSK	1	1	20.48	20.55	20.52	
40	QPSK	1	53	20.40	20.44	20.48	22.0
40	QPSK	1	104	20.45	20.51	20.47	
40	QPSK	50	0	19.97	20.07	19.97	21.0
40	QPSK	50	28	20.40	20.50	20.46	22.0
40	QPSK	50	56	19.98	20.06	20.05	21.0
40	QPSK	100	0	19.93	20.05	19.96	21.0
40	16QAM	1	1	19.95	20.06	20.02	21.0
40	64QAM	1	1	17.98	18.10	18.05	19.5
40	256QAM	1	1	15.98	16.11	16.00	17.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.36	20.51	20.48	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.41	20.48	20.43	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.43	20.47	20.41	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.41	20.48	20.39	22.0

Par270 n77 Ant 3 DSI2									
BW [MHz]	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	PQ2 BPSK	1	1	18.42	18.47	18.41			
100	PQ2 BPSK	1	137	18.44	18.53	18.48	20.0	0.0	
100	PQ2 BPSK	1	271	18.47	18.51	18.44			
100	PQ2 BPSK	135	0	18.10	18.08	18.00	19.5	0.5	
100	PQ2 BPSK	135	69	18.47	18.50	18.42	20.0	0.0	
100	PQ2 BPSK	135	138	18.03	18.13	17.97	19.5	0.5	
100	PQ2 BPSK	270	0	18.09	18.07	18.06			
100	QPSK	1	1	18.55	18.59	18.52			
100	QPSK	1	137	18.44	18.50	18.47	20.0	0.0	
100	QPSK	1	271	18.42	18.47	18.40			
100	QPSK	135	0	17.54	17.54	17.51	19.0	1.0	
100	QPSK	135	69	18.44	18.57	18.44	20.0	0.0	
100	QPSK	135	138	17.52	17.59	17.54	19.0	1.0	
100	QPSK	270	0	17.57	17.63	17.54			
100	16QAM	1	1	17.57	17.55	17.54	19.0	1.0	
100	64QAM	1	1	16.02	16.10	16.03	17.5	2.5	
100	256QAM	1	1	14.02	14.00	14.00	15.5	4.5	
Channel									
Frequency (MHz)				648668	650000	652334	Tune-up limit (dBm)	MPR	
90	QPSK	1	123	18.45	18.52	18.39	20.0	0.0	
Channel									
Frequency (MHz)				374501	3840	3940	Tune-up limit (dBm)	MPR	
80	QPSK	1	109	18.47	18.53	18.50	20.0	0.0	
Channel									
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR	
80	QPSK	1	81	18.42	18.44	18.45	20.0	0.0	
Channel									
Frequency (MHz)				374001	3840	3950	Tune-up limit (dBm)	MPR	
60	QPSK	1	81	18.42	18.54	18.45	20.0	0.0	
Channel									
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR	
50	QPSK	1	67	18.48	18.48	18.43	20.0	0.0	
Channel									
Frequency (MHz)				648668	650000	654000	Tune-up limit (dBm)	MPR	
40	QPSK	1	53	18.50	18.51	18.48	20.0	0.0	
Channel									
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR	
20	QPSK	1	26	18.45	18.50	18.48	20.0	0.0	
Channel									
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR	
15	QPSK	1	19	18.46	18.49	18.39	20.0	0.0	
Channel									
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR	
10	QPSK	1	12	18.49	18.47	18.48	20.0	0.0	

Par270 n77 HPUE Ant 3 DSI2									
BW [MHz]	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	PQ2 BPSK	1	1	21.43	21.46	21.43			
100	PQ2 BPSK	1	137	21.40	21.54	21.49	23.0	0.0	
100	PQ2 BPSK	1	271	21.50	21.54	21.45			
100	PQ2 BPSK	135	0	21.05	21.10	20.99	22.5	0.5	
100	PQ2 BPSK	135	69	21.45	21.54	21.41	23.0	0.0	
100	PQ2 BPSK	135	138	21.06	21.16	20.96	22.5	0.5	
100	PQ2 BPSK	270	0	21.07	21.07	21.11			
100	QPSK	1	1	21.56	21.62	21.56			
100	QPSK	1	137	21.39	21.48	21.47	23.0	0.0	
100	QPSK	1	271	21.47	21.41	21.45			
100	QPSK	135	0	20.48	20.55	20.46	22.0	1.0	
100	QPSK	135	69	21.38	21.58	21.50	23.0	0.0	
100	QPSK	135	138	20.58	20.59	20.49	22.0	1.0	
100	QPSK	270	0	20.57	20.55	20.52			
100	16QAM	1	1	20.52	20.57	20.49	22.0	1.0	
100	64QAM	1	1	19.06	19.08	19.01	20.5	2.5	
100	256QAM	1	1	17.04	17.00	17.02	18.5	4.5	
Channel									
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dbm)	MPR	
90	QPSK	1	123	21.45	21.52	21.47	23.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650666	Tune-up limit (dbm)	MPR	
80	QPSK	1	109	21.43	21.56	21.50	23.0	0.0	
Channel									
Frequency (MHz)				648668	650000	653334	Tune-up limit (dbm)	MPR	
80	QPSK	1	81	21.45	21.48	21.44	23.0	0.0	
Channel									
Frequency (MHz)				648334	650000	653668	Tune-up limit (dbm)	MPR	
50	QPSK	1	67	21.45	21.49	21.52	23.0	0.0	
Channel									
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	21.43	21.59	21.48	23.0	0.0	
Channel									
Frequency (MHz)				647334	650000	654668	Tune-up limit (dbm)	MPR	
20	QPSK	1	26	21.48	21.55	21.47	23.0	0.0	
Channel									
Frequency (MHz)				647168	650000	654834	Tune-up limit (dbm)	MPR	
15	QPSK	1	19	21.52	21.57	21.53	23.0	0.0	
Channel									
Frequency (MHz)				647000	650000	655000	Tune-up limit (dbm)	MPR	
10	QPSK	1	12	21.49	21.50	21.48	23.0	0.0	

Part27Q n77 Ant 3 DSI2									
BW [MHz]	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	3500.01				
100	PQ2 BPSK	1	1	18.82					
100	PQ2 BPSK	1	137	18.82			20.0	0.0	
100	PQ2 BPSK	1	271	18.80					
100	PQ2 BPSK	135	0	18.42			19.5	0.5	
100	PQ2 BPSK	135	69	18.76			20.0	0.0	
100	PQ2 BPSK	135	138	18.44			19.5	0.5	
100	PQ2 BPSK	270	0	18.31					
100	QPSK	1	1	18.89					
100	QPSK	1	137	18.89			20.0	0.0	
100	QPSK	1	271	18.77					
100	QPSK	135	0	17.90			19.0	1.0	
100	QPSK	135	69	18.87			20.0	0.0	
100	QPSK	135	138	17.91			19.0	1.0	
100	QPSK	270	0	17.97					
100	16QAM	1	1	17.90			19.0	1.0	
100	64QAM	1	1	16.42			17.5	2.5	
100	256QAM	1	1	14.40			15.5	4.5	
Channel									
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR	
90	QPSK	1	123	3495	3500.01	3505.02	20.0	0.0	
Channel									
Frequency (MHz)				632968	633334	634000	Tune-up limit (dBm)	MPR	
80	QPSK	1	109	3499.01	3500.01	3501.00	20.0	0.0	
Channel									
Frequency (MHz)				633000	633334	634668	Tune-up limit (dBm)	MPR	
80	QPSK	1	81	18.72	18.79	18.69	20.0	0.0	
Channel									
Frequency (MHz)				633168	633334	635000	Tune-up limit (dBm)	MPR	
50	QPSK	1	67	18.76	18.81	18.74	20.0	0.0	
Channel									
Frequency (MHz)				633154	633334	635334	Tune-up limit (dBm)	MPR	
40	QPSK	1	53	18.77	18.80	18.73	20.0	0.0	
Channel									
Frequency (MHz)				633068	633334	635000	Tune-up limit (dBm)	MPR	
20	QPSK	1	26	18.74	18.79	18.69	20.0	0.0	
Channel									
Frequency (MHz)				635000	633334	636168	Tune-up limit (dBm)	MPR	
15	QPSK	1	19	18.70	18.82	18.68	20.0	0.0	
Channel									
Frequency (MHz)				635334	633334	636334	Tune-up limit (dBm)	MPR	
10	QPSK	1	12	18.70	18.83	18.71	20.0	0.0	

Part27Q n77 HPUE Ant 3 DSI2									
BW [MHz]	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	21.85					
100	PI2 BPSK	1	137	21.85			23.0	0.0	
100	PI2 BPSK	1	271	21.75					
100	PI2 BPSK	135	0	21.39			22.5	0.5	
100	PI2 BPSK	135	69	21.62			23.0	0.0	
100	PI2 BPSK	135	138	21.47			22.5	0.5	
100	PI2 BPSK	270	0	21.32					
100	QPSK	1	1	21.94					
100	QPSK	1	137	21.85			23.0	0.0	
100	QPSK	1	271	21.77					
100	QPSK	135	0	20.94			22.0	1.0	
100	QPSK	135	69	21.81			23.0	0.0	
100	QPSK	135	138	20.93			22.0	1.0	
100	QPSK	270	0	21.01					
100	16QAM	1	1	20.92			22.0	1.0	
100	64QAM	1	1	19.43			20.5	2.5	
100	256QAM	1	1	17.43			18.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	23.0	0.0	
90	QPSK	1	123	21.75	21.79	21.63	23.0	0.0	
Channel				630668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3498.02	3500.01	3510	23.0	0.0	
80	QPSK	1	109	21.78	21.85	21.66	23.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3500.01	3520.02	23.0	0.0	
80	QPSK	1	81	21.89	21.73	21.67	23.0	0.0	
Channel				637668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3476.02	3500.01	3525	23.0	0.0	
50	QPSK	1	67	21.78	21.86	21.73	23.0	0.0	
Channel				637334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	23.0	0.0	
40	QPSK	1	53	21.75	21.84	21.68	23.0	0.0	
Channel				636668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.02	3500.01	3460	23.0	0.0	
20	QPSK	1	26	21.82	21.80	21.83	23.0	0.0	
Channel				630000	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52	23.0	0.0	
15	QPSK	1	19	21.72	21.79	21.82	23.0	0.0	
Channel				635334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3458.01	3500.01	3545.01	23.0	0.0	
10	QPSK	1	12	21.76	21.82	21.68	23.0	0.0	

Part27O n78 Ant 3									
BW [MHz]	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	18.57					
100	PI2 BPSK	1	137	18.55			20.0	0.0	
100	PI2 BPSK	1	271	18.58					
100	PI2 BPSK	135	0	18.09			19.5	0.5	
100	PI2 BPSK	135	69	18.59			20.0	0.0	
100	PI2 BPSK	135	138	18.22			19.5	0.5	
100	PI2 BPSK	270	0	18.17					
100	QPSK	1	1	18.05					
100	QPSK	1	137	18.59			20.0	0.0	
100	QPSK	1	271	18.56					
100	QPSK	135	0	17.57			19.0	1.0	
100	QPSK	135	69	18.60			20.0	0.0	
100	QPSK	135	138	17.60			19.0	1.0	
100	QPSK	270	0	17.66					
100	16QAM	1	1	17.58			19.0	1.0	
100	64QAM	1	1	16.15			17.5	2.5	
100	256QAM	1	1	14.14			15.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	20.0	0.0	
90	QPSK	1	123	18.50	18.59	18.43	20.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	20.0	0.0	
80	QPSK	1	109	18.47	18.55	18.43	20.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	20.0	0.0	
70	QPSK	1	95	18.50	18.59	18.43	20.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	20.0	0.0	
60	QPSK	1	81	18.46	18.52	18.50	20.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	20.0	0.0	
50	QPSK	1	67	18.46	18.57	18.39	20.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	20.0	0.0	
40	QPSK	1	53	18.48	18.63	18.47	20.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	20.0	0.0	
30	QPSK	1	39	18.55	18.54	18.42	20.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	20.0	0.0	
20	QPSK	1	26	18.48	18.63	18.42	20.0	0.0	
Channel				647000	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	20.0	0.0	
15	QPSK	1	19	18.50	18.58	18.49	20.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	20.0	0.0	
10	QPSK	1	12	18.50	18.55	18.46	20.0	0.0	

Part27O n78 HPUE Ant 3									
BW [MHz]	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	21.62					
100	Pi2 BPSK	1	137	21.53			23.0	0.0	
100	Pi2 BPSK	1	271	21.62					
100	Pi2 BPSK	135	0	21.06			22.5	0.5	
100	Pi2 BPSK	135	69	21.57			23.0	0.0	
100	Pi2 BPSK	135	138	21.27			22.5	0.5	
100	Pi2 BPSK	270	0	21.20					
100	QPSK	1	1	21.64					
100	QPSK	1	137	21.61			23.0	0.0	
100	QPSK	1	271	21.62					
100	QPSK	135	0	20.66			22.0	1.0	
100	QPSK	135	69	21.61			23.0	0.0	
100	QPSK	135	138	20.59			22.0	1.0	
100	QPSK	270	0	20.70					
100	16QAM	1	1	20.52			22.0	1.0	
100	64QAM	1	1	19.14			20.5	2.5	
100	256QAM	1	1	17.20			18.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	23.0	0.0	
90	QPSK	1	123	21.55	21.55	21.43	23.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	23.0	0.0	
80	QPSK	1	109	21.55	21.53	21.39	23.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	23.0	0.0	
70	QPSK	1	65	21.52	21.62	21.44	23.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.00	3750	3770.01	23.0	0.0	
60	QPSK	1	81	21.56	21.60	21.49	23.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	23.0	0.0	
50	QPSK	1	67	21.50	21.47	21.39	23.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	23.0	0.0	
40	QPSK	1	53	21.53	21.57	21.40	23.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.00	3750	3785.01	23.0	0.0	
30	QPSK	1	39	21.47	21.54	21.42	23.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	23.0	0.0	
20	QPSK	1	26	21.47	21.59	21.44	23.0	0.0	
Channel				647000	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	23.0	0.0	
15	QPSK	1	19	21.56	21.54	21.45	23.0	0.0	
Channel				646668	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	23.0	0.0	
10	QPSK	1	12	21.47	21.63	21.45	23.0	0.0	

Part27Q 78 Ant 3 DSI2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	
				633334	633334		
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	18.90	18.90		
100	PI2 BPSK	1	137	18.96	18.96		
100	PI2 BPSK	1	271	18.98	18.98		
100	PI2 BPSK	135	0	18.60	18.60	19.5	0.5
100	PI2 BPSK	135	69	18.69	18.69	20.0	0.0
100	PI2 BPSK	135	138	18.55	18.55	19.5	0.5
100	PI2 BPSK	270	0	18.37	18.37		
100	QPSK	1	1	19.06	19.06		
100	QPSK	1	137	18.93	18.93	20.0	0.0
100	QPSK	1	271	18.87	18.87		
100	QPSK	135	0	17.88	17.88	19.0	1.0
100	QPSK	135	69	19.04	19.04	20.0	0.0
100	QPSK	135	138	18.54	18.54	19.0	1.0
100	QPSK	270	0	18.10	18.10		
100	16QAM	1	1	18.07	18.07	19.0	1.0
100	64QAM	1	1	18.56	18.56	17.5	2.5
100	256QAM	1	1	14.37	14.37	15.5	4.5
Channel							
Frequency (MHz)				633330	633334	633668	
				3485	3500.01	3505.02	
90	QPSK	1	123	18.88	18.95	18.84	20.0 0.0
Channel							
Frequency (MHz)				632068	633334	634000	
				3480.02	3500.01	3510	
80	QPSK	1	109	18.85	18.93	18.85	20.0 0.0
Channel							
Frequency (MHz)				632334	633334	634334	
				3485.01	3500.01	3515.01	
70	QPSK	1	96	18.86	18.84	18.82	20.0 0.0
Channel							
Frequency (MHz)				632000	633334	634668	
				3480	3500.01	3520.02	
60	QPSK	1	81	18.88	18.88	18.77	20.0 0.0
Channel							
Frequency (MHz)				631668	633334	635000	
				3475.02	3500.01	3525	
50	QPSK	1	67	18.95	18.95	18.85	20.0 0.0
Channel							
Frequency (MHz)				631334	633334	635334	
				3470.01	3500.01	3530.01	
40	QPSK	1	53	18.87	18.94	18.83	20.0 0.0
Channel							
Frequency (MHz)				631000	633334	635668	
				3465	3500.01	3535.02	
30	QPSK	1	39	18.92	18.89	18.82	20.0 0.0
Channel							
Frequency (MHz)				630505	633334	636000	
				3460.02	3500.01	3540	
20	QPSK	1	26	18.94	19.00	18.76	20.0 0.0
Channel							
Frequency (MHz)				630000	633334	636788	
				3457.5	3500.01	3542.92	
15	QPSK	1	19	18.89	18.89	18.79	20.0 0.0
Channel							
Frequency (MHz)				630334	633334	636334	
				3452.01	3500.01	3543.01	
10	QPSK	1	12	18.85	18.95	18.82	20.0 0.0

Part27Q 78 HPUE Ant 3 DSI2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	
				633334	633334		
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	21.91	21.91		
100	PI2 BPSK	1	137	21.97	21.97		
100	PI2 BPSK	1	271	22.04	22.04		
100	PI2 BPSK	135	0	21.65	21.65	22.5	0.5
100	PI2 BPSK	135	69	21.88	21.88	23.0	0.0
100	PI2 BPSK	135	138	21.50	21.50	22.5	0.5
100	PI2 BPSK	270	0	21.40	21.40		
100	QPSK	1	1	22.07	22.07		
100	QPSK	1	137	21.99	21.99	23.0	0.0
100	QPSK	1	271	21.85	21.85		
100	QPSK	135	0	20.96	20.96	22.0	1.0
100	QPSK	135	69	22.05	22.05	23.0	0.0
100	QPSK	135	138	20.59	20.59	22.0	1.0
100	QPSK	270	0	21.15	21.15		
100	16QAM	1	1	21.04	21.04	22.0	1.0
100	64QAM	1	1	19.61	19.61	20.5	2.5
100	256QAM	1	1	17.62	17.62	18.5	4.5
Channel							
Frequency (MHz)				633330	633334	633668	
				3485	3500.01	3505.02	
90	QPSK	1	123	21.94	21.99	21.88	23.0 0.0
Channel							
Frequency (MHz)				632068	633334	634000	
				3480.02	3500.01	3510	
80	QPSK	1	109	21.89	21.95	21.90	23.0 0.0
Channel							
Frequency (MHz)				632334	633334	634334	
				3485.01	3500.01	3515.01	
70	QPSK	1	96	21.91	21.93	21.89	23.0 0.0
Channel							
Frequency (MHz)				632000	633334	634668	
				3480	3500.01	3520.02	
60	QPSK	1	81	21.86	21.86	21.82	23.0 0.0
Channel							
Frequency (MHz)				631668	633334	635000	
				3475.02	3500.01	3525	
50	QPSK	1	67	21.88	21.99	21.88	23.0 0.0
Channel							
Frequency (MHz)				631334	633334	635334	
				3470.01	3500.01	3530.01	
40	QPSK	1	53	21.92	21.96	21.87	23.0 0.0
Channel							
Frequency (MHz)				631000	633334	635668	
				3465	3500.01	3535.02	
30	QPSK	1	39	21.89	21.93	21.89	23.0 0.0
Channel							
Frequency (MHz)				630505	633334	636000	
				3460.02	3500.01	3540	
20	QPSK	1	26	21.86	21.95	21.82	23.0 0.0
Channel							
Frequency (MHz)				630000	633334	636788	
				3457.5	3500.01	3542.92	
15	QPSK	1	19	21.86	21.93	21.85	23.0 0.0
Channel							
Frequency (MHz)				630334	633334	636334	
				3452.01	3500.01	3543.01	
10	QPSK	1	12	21.89	21.90	21.89	23.0 0.0

n38 Ant 4 DSI2								
BW [MHz]	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	23.0	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	21.51	21.51	21.49	23.0	0.0
40	PI/2 BPSK	1	53	21.45	21.48	21.42		
40	PI/2 BPSK	1	104	21.43	21.48	21.44	23.0	0.0
40	PI/2 BPSK	50	0	21.51	21.53	21.50		
40	PI/2 BPSK	50	28	21.48	21.49	21.44	23.0	0.0
40	PI/2 BPSK	50	56	21.45	21.55	21.54		
40	PI/2 BPSK	100	0	21.45	21.52	21.50	23.0	0.0
40	QPSK	1	1	21.52	21.56	21.54		
40	QPSK	1	53	21.52	21.53	21.48	22.5	0.5
40	QPSK	1	104	21.47	21.50	21.49		
40	QPSK	50	0	21.03	21.11	21.05	23.0	0.0
40	QPSK	50	28	21.45	21.50	21.46		
40	QPSK	50	56	20.98	21.10	21.07	22.5	0.5
40	QPSK	100	0	20.98	21.09	21.05		
40	16QAM	1	1	21.05	21.06	20.97	21.0	2.0
40	64QAM	1	1	19.54	19.60	19.46		
40	256QAM	1	1	17.50	17.57	17.54	19.0	4.0
Channel				517002	519000	520998	23.0	0.0
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	21.46	21.55	21.46	23.0	0.0
Channel				516504	519000	521496		
Frequency (MHz)				2582.52	2595	2607.48	23.0	0.0
25	QPSK	1	1	21.42	21.52	21.42		
Channel				516000	519000	522000	23.0	0.0
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	21.42	21.52	21.43	23.0	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49	23.0	0.0
15	QPSK	1	1	21.47	21.54	21.41		
Channel				515004	519000	522996	23.0	0.0
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	21.41	21.53	21.48	23.0	0.0

n41 Ant 4 DSI2								
BW [MHz]	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	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.08	22.19	22.07	24.0	0.0
100	PI/2 BPSK	1	137	22.05	22.19	22.12		
100	PI/2 BPSK	1	271	22.07	22.14	22.03	24.0	0.0
100	PI/2 BPSK	135	0	22.07	22.16	22.05		
100	PI/2 BPSK	135	69	22.02	22.18	22.04	24.0	0.0
100	PI/2 BPSK	135	138	22.10	22.18	22.07		
100	PI/2 BPSK	270	0	22.06	22.15	22.06	24.0	0.0
100	QPSK	1	1	22.08	22.21	22.11		
100	QPSK	1	137	22.07	22.20	22.12	24.0	0.0
100	QPSK	1	271	22.10	22.15	22.07		
100	QPSK	135	0	22.09	22.19	22.15	24.0	0.0
100	QPSK	135	69	22.08	22.20	22.15		
100	QPSK	135	138	22.06	22.17	22.13	24.0	0.0
100	QPSK	270	0	22.11	22.18	22.15		
100	16QAM	1	1	22.13	22.17	22.15	23.5	2.5
100	64QAM	1	1	21.65	21.72	21.59		
100	256QAM	1	1	19.63	19.63	19.58	21.5	2.5
Channel				508200	518598	528996	24.0	0.0
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.04	22.19	22.05	24.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0
80	QPSK	1	1	22.07	22.20	22.10		
Channel				506200	518598	531996	24.0	0.0
Frequency (MHz)				2536	2592.99	2639.98		
60	QPSK	1	1	22.05	22.16	22.01	24.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0
50	QPSK	1	1	22.07	22.20	21.99		
Channel				503202	518598	534000	24.0	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.06	22.17	22.03	24.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98	24.0	0.0
30	QPSK	1	1	22.04	22.17	22.00		
Channel				501204	518598	535998	24.0	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.98	22.14	22.09	24.0	0.0
Channel				500700	518598	536496		
Frequency (MHz)				2503.5	2592.99	2682.48	24.0	0.0
15	QPSK	1	1	21.99	22.19	22.04		
Channel				500202	518598	537000	24.0	0.0
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.06	22.15	22.07	24.0	0.0

n38 Ant 7 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	
Channel							
Frequency (MHz)							
40	PI2 BPSK	1	1	15.32	15.38	15.31	
40	PI2 BPSK	1	53	15.27	15.36	15.27	17.0
40	PI2 BPSK	1	104	15.30	15.33	15.33	
40	PI2 BPSK	50	0	15.33	15.36	15.34	17.0
40	PI2 BPSK	50	28	15.30	15.33	15.27	17.0
40	PI2 BPSK	50	56	15.27	15.34	15.37	17.0
40	PI2 BPSK	100	0	15.27	15.32	15.33	
40	QPSK	1	1	15.35	15.40	15.38	
40	QPSK	1	53	15.35	15.37	15.28	
40	QPSK	1	104	15.29	15.36	15.32	17.0
40	QPSK	50	0	15.32	15.35	15.31	17.0
40	QPSK	50	28	15.33	15.39	15.34	17.0
40	QPSK	50	56	15.33	15.36	15.26	17.0
40	QPSK	100	0	15.32	15.38	15.33	17.0
40	16QAM	1	1	15.35	15.37	15.29	17.0
40	64QAM	1	1	15.34	15.37	15.35	17.0
40	256QAM	1	1	15.36	15.38	15.32	15.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.28	15.35	15.28	17.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	15.30	15.36	15.29	17.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.34	15.38	15.27	17.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.23	15.38	15.36	17.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.24	15.35	15.35	17.0

n41 Ant 7 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	15.40	15.51	15.31	
100	PI2 BPSK	1	137	15.43	15.47	15.36	17.0
100	PI2 BPSK	1	271	15.41	15.50	15.36	
100	PI2 BPSK	135	0	15.45	15.43	15.29	17.0
100	PI2 BPSK	135	69	15.41	15.45	15.37	17.0
100	PI2 BPSK	135	138	15.46	15.42	15.30	17.0
100	PI2 BPSK	270	0	15.46	15.51	15.30	
100	QPSK	1	1	15.48	15.53	15.39	
100	QPSK	1	137	15.45	15.50	15.38	17.0
100	QPSK	1	271	15.48	15.51	15.35	
100	QPSK	135	0	15.46	15.46	15.37	17.0
100	QPSK	135	69	15.48	15.51	15.38	17.0
100	QPSK	135	138	15.44	15.46	15.37	17.0
100	QPSK	270	0	15.47	15.50	15.35	17.0
100	16QAM	1	1	15.40	15.48	15.35	17.0
100	64QAM	1	1	15.48	15.51	15.38	17.0
100	256QAM	1	1	15.51	15.52	15.32	15.5
Channel							
Frequency (MHz)							
90	QPSK	1	123	15.43	15.52	15.39	17.0
Channel							
Frequency (MHz)							
80	QPSK	1	109	15.43	15.50	15.37	17.0
Channel							
Frequency (MHz)							
60	QPSK	1	81	15.42	15.51	15.37	17.0
Channel							
Frequency (MHz)							
50	QPSK	1	67	15.45	15.52	15.32	17.0
Channel							
Frequency (MHz)							
40	QPSK	1	53	15.40	15.51	15.27	17.0
Channel							
Frequency (MHz)							
30	QPSK	1	39	15.38	15.47	15.31	17.0
Channel							
Frequency (MHz)							
20	QPSK	1	26	15.43	15.48	15.35	17.0
Channel							
Frequency (MHz)							
15	QPSK	1	19	15.43	15.50	15.32	17.0
Channel							
Frequency (MHz)							
10	QPSK	1	12	15.38	15.51	15.32	17.0

n48 Ant 7 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	
Channel							
Frequency (MHz)							
40	PI2 BPSK	1	1	20.86	20.93	20.87	
40	PI2 BPSK	1	53	20.88	20.94	20.91	22.5
40	PI2 BPSK	1	104	20.82	20.88	20.90	
40	PI2 BPSK	50	0	20.80	20.91	20.89	22.5
40	PI2 BPSK	50	28	20.85	20.89	20.89	22.5
40	PI2 BPSK	50	56	20.82	20.94	20.85	22.5
40	PI2 BPSK	100	0	20.91	20.93	20.91	
40	QPSK	1	1	20.92	20.95	20.88	
40	QPSK	1	53	20.86	20.92	20.88	22.5
40	QPSK	1	104	20.92	20.93	20.91	
40	QPSK	50	0	20.87	20.93	20.88	22.5
40	QPSK	50	28	20.91	20.94	20.90	22.5
40	QPSK	50	56	20.91	20.88	20.85	22.5
40	QPSK	100	0	20.94	20.93	20.88	22.5
40	16QAM	1	1	20.80	20.92	20.89	22.5
40	64QAM	1	1	20.33	20.41	20.44	22.0
40	256QAM	1	1	18.41	18.46	18.44	20.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.82	20.91	20.78	22.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.83	20.93	20.79	22.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.90	20.99	20.85	22.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.80	20.92	20.78	22.5

Part27Q 78 PC2&3 Ant 7 DSI2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Modem Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334			
Frequency (MHz)					3000.01			
100	PQ2 BPSK	1	1	18.38				
100	PQ2 BPSK	1	137	18.39			19.5	0.0
100	PQ2 BPSK	1	271	18.41				
100	PQ2 BPSK	135	0	18.40			19.5	0.0
100	PQ2 BPSK	135	69	18.38			19.5	0.0
100	PQ2 BPSK	135	138	18.35			19.5	0.0
100	PQ2 BPSK	270	0	18.34				
100	QPSK	1	1	18.42				
100	QPSK	1	137	18.41			19.5	0.0
100	QPSK	1	271	18.37				
100	QPSK	135	0	18.34			19.5	0.0
100	QPSK	135	69	18.40			19.5	0.0
100	QPSK	135	138	18.37			19.5	0.0
100	QPSK	270	0	18.35				
100	16QAM	1	1	18.38			19.5	0.0
100	64QAM	1	1	18.38			19.5	0.0
100	256QAM	1	1	18.37			19.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3000.01	3005.02		
90	QPSK	1	123	18.06	18.18	17.96	19.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3000.01	3010		
80	QPSK	1	109	18.04	18.17	18.01	19.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3000.01	3015.01		
70	QPSK	1	95	18.14	18.10	18.07	19.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3000.01	3020.02		
60	QPSK	1	81	18.11	18.21	18.01	19.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3000.01	3025		
50	QPSK	1	67	18.13	18.20	18.04	19.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3000.01	3030.01		
40	QPSK	1	53	18.07	18.13	18.02	19.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3000.01	3035.02		
30	QPSK	1	39	18.11	18.17	17.98	19.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3000.01	3040		
20	QPSK	1	25	18.13	18.10	17.96	19.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3000.01	3045.01		
15	QPSK	1	19	18.07	18.17	17.95	19.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3000.01	3045.01		
10	QPSK	1	12	18.15	18.15	17.95	19.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	20.5	0.0
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	18.89	19.05	18.97	20.5	0.0
20	PI2 BPSK	1	53	18.96	19.05	18.98		
20	PI2 BPSK	1	104	18.96	19.01	18.97		
20	PI2 BPSK	50	0	18.94	19.07	19.01	20.5	0.0
20	PI2 BPSK	50	28	18.92	19.01	18.94	20.5	0.0
20	PI2 BPSK	50	56	18.97	19.06	18.93		
20	PI2 BPSK	100	0	18.98	19.02	18.91		
20	QPSK	1	1	18.98	19.06	18.99	20.5	0.0
20	QPSK	1	53	18.87	19.06	18.94		
20	QPSK	1	104	18.88	19.02	18.97		
20	QPSK	50	0	18.91	19.06	18.97	20.5	0.0
20	QPSK	50	28	18.90	19.06	18.95	20.5	0.0
20	QPSK	50	56	18.97	19.04	18.95		
20	QPSK	100	0	18.94	19.01	18.90		
20	16QAM	1	1	18.93	19.07	18.90	20.5	0.0
20	64QAM	1	1	18.97	19.02	19.01	20.5	0.0
20	256QAM	1	1	18.90	19.03	18.97	20.0	0.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	18.91	19.07	18.86	20.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1900		
10	QPSK	1	1	18.86	19.01	18.94	20.5	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	18.91	18.97	18.92	20.5	0.0

Reduced Power Mode for Main PA DSI3

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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				166800	167500	167800	24.7	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.19	23.27	23.16	24.7	0.0
20	PI2 BPSK	1	53	23.34	23.50	23.36		
20	PI2 BPSK	1	104	23.34	23.44	23.28		
20	PI2 BPSK	50	0	23.48	23.55	23.48	24.7	0.0
20	PI2 BPSK	50	28	23.36	23.42	23.29	24.7	0.0
20	PI2 BPSK	50	56	23.50	23.53	23.46		
20	PI2 BPSK	100	0	23.53	23.56	23.48		
20	QPSK	1	1	23.52	23.59	23.50	24.7	0.0
20	QPSK	1	53	23.38	23.38	23.35		
20	QPSK	1	104	23.36	23.33	23.33		
20	QPSK	50	0	23.48	23.55	23.54	24.7	0.0
20	QPSK	50	28	23.44	23.52	23.54	24.7	0.0
20	QPSK	50	56	23.06	23.11	23.09		
20	QPSK	100	0	23.55	23.58	23.52		
20	16QAM	1	1	23.10	23.22	23.18	24.7	0.0
20	64QAM	1	1	21.70	21.81	21.77	23.2	1.5
20	256QAM	1	1	20.31	20.42	20.36	21.2	3.5
Channel				166300	167000	167500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.51	23.54	23.40	24.7	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.47	23.53	23.45	24.7	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.44	23.53	23.42	24.7	0.0

n7 Ant 1 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	20.5	0.0
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	19.02	18.98	18.98	20.5	0.0
50	PI2 BPSK	1	135	18.98	19.01	19.00		
50	PI2 BPSK	1	268	19.00	19.03	18.92		
50	PI2 BPSK	135	0	19.04	19.04	19.00	20.5	0.0
50	PI2 BPSK	135	68	19.01	18.98	18.98	20.5	0.0
50	PI2 BPSK	135	135	18.98	19.05	18.98		
50	PI2 BPSK	270	0	18.99	19.02	18.99		
50	QPSK	1	1	18.94	19.02	18.91	20.5	0.0
50	QPSK	1	135	18.98	19.04	18.90		
50	QPSK	1	268	19.05	19.06	18.89		
50	QPSK	135	0	19.01	19.00	18.92	20.5	0.0
50	QPSK	135	68	19.01	18.99	18.95	20.5	0.0
50	QPSK	135	135	19.02	19.03	18.97		
50	QPSK	270	0	18.95	19.00	18.90		
50	16QAM	1	1	18.95	18.98	18.98	20.5	0.0
50	64QAM	1	1	18.97	18.99	18.98	20.5	0.0
50	256QAM	1	1	18.04	19.03	19.00	20.5	0.0
Channel				504500	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	19.04	19.05	18.79	20.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	19.04	19.04	18.87	20.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	18.94	19.03	18.87	20.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	18.93	18.96	18.78	20.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	18.98	18.94	18.80	20.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	19.04	18.95	18.88	20.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	18.98	19.01	18.87	20.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	21.0	0.0	
Frequency (MHz)				1730	1745	1760			
40	Pl2 BPSK	1	1	19.11	19.12	19.09	21.0	0.0	
40	Pl2 BPSK	1	108	19.19	19.11	19.04			
40	Pl2 BPSK	1	214	19.10	19.19	19.03			
40	Pl2 BPSK	108	0	19.11	19.18	19.04	21.0	0.0	
40	Pl2 BPSK	108	54	19.18	19.20	19.08	21.0	0.0	
40	Pl2 BPSK	108	108	19.11	19.12	19.11	21.0	0.0	
40	Pl2 BPSK	216	0	19.13	19.11	19.10			
40	QPSK	1	1	19.20	19.24	19.29			
40	QPSK	1	108	19.21	19.22	19.23	21.0	0.0	
40	QPSK	1	214	19.25	19.29	19.23			
40	QPSK	108	0	19.28	19.23	19.20			
40	QPSK	108	54	19.21	19.27	19.15	21.0	0.0	
40	QPSK	108	108	19.15	19.26	19.26	21.0	0.0	
40	QPSK	216	0	19.21	19.23	19.15			
40	16QAM	1	1	19.11	19.10	19.11	21.0	0.0	
40	64QAM	1	1	19.17	19.13	19.13	21.0	0.0	
40	256QAM	1	1	19.16	19.18	19.07	21.0	0.0	
Channel				345000	349000	353000	21.0	MPR	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	19.17	19.23	19.20	21.0	0.0	
Channel				344500	349000	353500	21.0	MPR	
Frequency (MHz)				1722.5	1745	1747.5			
25	QPSK	1	1	19.25	19.24	19.23	21.0	0.0	
Channel				344000	349000	354000	21.0	MPR	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.28	19.28	19.15	21.0	0.0	
Channel				343500	349000	354500	21.0	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.19	19.24	19.21	21.0	0.0	
Channel				343000	349000	355000	21.0	MPR	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.24	19.21	19.18	21.0	0.0	
Channel				342500	349000	355500	21.0	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.23	19.22	19.26	21.0	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				505000	507000	509000	24.5	0.0	
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	23.62	23.70	23.63			
50	PI/2 BPSK	1	135	23.62	23.68	23.54	24.0	0.5	
50	PI/2 BPSK	1	268	23.62	23.71	23.51			
50	PI/2 BPSK	135	0	23.28	23.35	23.24			
50	PI/2 BPSK	135	68	23.57	23.79	23.58	24.5	0.0	
50	PI/2 BPSK	135	135	23.27	23.33	23.25			
50	PI/2 BPSK	270	0	23.27	23.41	23.32			
50	QPSK	1	1	23.78	23.77	23.66	24.5	0.0	
50	QPSK	1	135	23.67	23.75	23.67			
50	QPSK	1	268	23.81	23.86	23.79			
50	QPSK	135	0	22.77	22.82	22.81	23.5	1.0	
50	QPSK	135	68	23.67	23.81	23.65			
50	QPSK	135	135	22.78	22.84	22.75			
50	QPSK	270	0	22.81	22.85	22.79	23.5	1.0	
50	16QAM	1	1	22.82	22.82	22.77			
50	64QAM	1	1	21.32	21.37	21.34			
50	256QAM	1	1	19.33	19.37	19.28	20.0	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550	24.5	0.0	
40	QPSK	1	1	23.64	23.75	23.55			
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	24.5	0.0	
30	QPSK	1	1	23.57	23.74	23.60			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	24.5	0.0	
25	QPSK	1	1	23.55	23.75	23.54			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	24.5	0.0	
20	QPSK	1	1	23.53	23.76	23.57			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	24.5	0.0	
15	QPSK	1	1	23.59	23.69	23.52			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	24.5	0.0	
10	QPSK	1	1	23.58	23.72	23.59			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	24.5	0.0	
5	QPSK	1	1	23.56	23.77	23.52			

n2 Ant 4 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.92	21.95	21.97		
20	PI2 BPSK	1	53	21.93	22.03	21.88	23.5	0.0
20	PI2 BPSK	1	104	21.90	21.96	21.94		
20	PI2 BPSK	50	0	21.47	21.57	21.53	23.0	0.5
20	PI2 BPSK	50	28	21.94	21.93	21.94	23.5	0.0
20	PI2 BPSK	50	56	21.54	21.56	21.47	23.0	0.5
20	PI2 BPSK	100	0	21.48	21.51	21.51		
20	QPSK	1	1	22.00	22.06	22.01		
20	QPSK	1	53	21.87	22.03	21.88	23.5	0.0
20	QPSK	1	104	21.87	21.94	21.98		
20	QPSK	50	0	21.05	21.11	21.04	22.5	1.0
20	QPSK	50	28	21.95	21.99	21.97	23.5	0.0
20	QPSK	50	56	21.00	21.05	21.04	22.5	1.0
20	QPSK	100	0	21.02	21.05	20.99		
20	16QAM	1	1	20.94	21.09	21.02	22.5	1.0
20	64QAM	1	1	19.56	19.53	19.48	21.0	2.5
20	256QAM	1	1	17.55	17.57	17.47	19.0	4.5
Channel				371500	370000	368500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	21.95	22.00	21.91	23.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1905	1900	1905		
10	QPSK	1	1	21.96	21.95	21.94	23.5	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5		
5	QPSK	1	1	21.97	21.96	21.98	23.5	0.0

n5 Ant 4 DSI3

BW [MHz]	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	167200	167600		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	24.42	24.50	24.46		
20	PI2 BPSK	1	53	24.41	24.49	24.38	25.7	0.0
20	PI2 BPSK	1	104	24.43	24.53	24.47		
20	PI2 BPSK	50	0	24.01	24.07	23.95	25.2	0.5
20	PI2 BPSK	50	28	24.47	24.53	24.43	25.7	0.0
20	PI2 BPSK	50	56	24.01	24.09	23.96	25.2	0.5
20	PI2 BPSK	100	0	24.05	24.05	24.06		
20	QPSK	1	1	24.52	24.59	24.50		
20	QPSK	1	53	24.39	24.48	24.39	25.7	0.0
20	QPSK	1	104	24.46	24.46	24.42		
20	QPSK	50	0	23.46	23.62	23.47	24.7	1.0
20	QPSK	50	28	24.39	24.56	24.47	25.7	0.0
20	QPSK	50	56	23.50	23.61	23.47	24.7	1.0
20	QPSK	100	0	23.63	23.57	23.51		
20	16QAM	1	1	23.47	23.60	23.46	24.7	1.0
20	64QAM	1	1	22.08	22.14	21.99	23.2	2.5
20	256QAM	1	1	19.96	20.13	20.02	21.2	4.5
Channel				166300	167200	167500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.47	24.55	24.48	25.7	0.0
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.44	24.48	24.42	25.7	0.0
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.47	24.46	24.45	25.7	0.0

n7 Ant 4 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	23.35	23.41	23.38		
50	PI2 BPSK	1	135	23.36	23.39	23.33	25.0	0.0
50	PI2 BPSK	1	268	23.36	23.40	23.35		
50	PI2 BPSK	135	0	23.01	23.04	23.00	24.5	0.5
50	PI2 BPSK	135	68	23.38	23.40	23.31	25.0	0.0
50	PI2 BPSK	135	135	23.02	22.99	22.97	24.5	0.5
50	PI2 BPSK	270	0	22.96	22.98	22.97		
50	QPSK	1	1	23.44	23.43	23.42		
50	QPSK	1	135	23.36	23.43	23.37	25.0	0.0
50	QPSK	1	268	23.46	23.52	23.45		
50	QPSK	135	0	22.49	22.53	22.50	24.0	1.0
50	QPSK	135	68	23.39	23.44	23.39	25.0	0.0
50	QPSK	135	135	22.47	22.49	22.43	24.0	1.0
50	QPSK	270	0	22.46	22.48	22.43		
50	16QAM	1	1	22.50	22.57	22.44	24.0	1.0
50	64QAM	1	1	20.99	21.01	20.96	22.5	2.5
50	256QAM	1	1	18.93	19.05	18.90	20.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	23.37	23.41	23.34	25.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2315	2335	2355		
30	QPSK	1	1	23.39	23.45	23.34	25.0	0.0
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.41	23.45	23.33	25.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	23.40	23.45	23.37	25.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.38	23.41	23.40	25.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.34	23.47	23.38	25.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.40	23.39	23.38	25.0	0.0

n38 Ant 1								
BW [MHz]	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	21.0	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	19.38	19.39	19.29	21.0	0.0
40	PI/2 BPSK	1	53	19.38	19.34	19.30		
40	PI/2 BPSK	1	104	19.31	19.38	19.31	21.0	0.0
40	PI/2 BPSK	50	0	19.36	19.34	19.23		
40	PI/2 BPSK	50	28	19.39	19.38	19.28	21.0	0.0
40	PI/2 BPSK	50	56	19.28	19.28	19.24		
40	PI/2 BPSK	100	0	19.29	19.38	19.28	21.0	0.0
40	QPSK	1	1	19.44	19.49	19.40		
40	QPSK	1	53	19.31	19.46	19.36	21.0	0.0
40	QPSK	1	104	19.41	19.41	19.29		
40	QPSK	50	0	19.36	19.29	19.23	21.0	0.0
40	QPSK	50	28	19.37	19.45	19.37		
40	QPSK	50	56	19.34	19.30	19.30	21.0	0.0
40	QPSK	100	0	19.41	19.42	19.35		
40	16QAM	1	1	19.28	19.28	19.31	21.0	0.0
40	64QAM	1	1	19.29	19.32	19.31		
40	256QAM	1	1	18.95	18.92	18.88	20.5	0.5
Channel				517002	519000	520998	21.0	0.0
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	19.37	19.45	19.32	21.0	0.0
Channel				516504	519000	521496		
Frequency (MHz)				2582.52	2595	2607.48	21.0	0.0
25	QPSK	1	1	19.30	19.41	19.32		
Channel				516000	519000	522000	21.0	0.0
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	19.34	19.44	19.30	21.0	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49	21.0	0.0
15	QPSK	1	1	19.41	19.47	19.35		
Channel				515004	519000	522996	21.0	0.0
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	19.41	19.39	19.27	21.0	0.0

n41 Ant 1								
BW [MHz]	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	21.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.43	19.49	19.32	21.0	0.0
100	PI/2 BPSK	1	137	19.47	19.44	19.37		
100	PI/2 BPSK	1	271	19.36	19.46	19.33	21.0	0.0
100	PI/2 BPSK	135	0	19.38	19.43	19.26		
100	PI/2 BPSK	135	69	19.44	19.38	19.35	21.0	0.0
100	PI/2 BPSK	135	138	19.38	19.34	19.33		
100	PI/2 BPSK	270	0	19.31	19.46	19.28	21.0	0.0
100	QPSK	1	1	19.50	19.55	19.48		
100	QPSK	1	137	19.31	19.50	19.42	21.0	0.0
100	QPSK	1	271	19.47	19.47	19.33		
100	QPSK	135	0	19.38	19.30	19.32	21.0	0.0
100	QPSK	135	69	19.47	19.54	19.47		
100	QPSK	135	138	19.41	19.36	19.37	21.0	0.0
100	QPSK	270	0	19.51	19.52	19.37		
100	16QAM	1	1	19.33	19.38	19.33	21.0	0.0
100	64QAM	1	1	19.33	19.41	19.37		
100	256QAM	1	1	18.95	18.97	18.90	20.5	0.5
Channel				508200	518598	528996	21.0	0.0
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.37	19.49	19.39	21.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99	21.0	0.0
80	QPSK	1	1	19.43	19.42	19.37		
Channel				506200	518598	531996	21.0	0.0
Frequency (MHz)				2536	2592.99	2659.98		
60	QPSK	1	1	19.38	19.48	19.45	21.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99	21.0	0.0
50	QPSK	1	1	19.38	19.46	19.43		
Channel				503202	518598	534000	21.0	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.40	19.42	19.34	21.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98	21.0	0.0
30	QPSK	1	1	19.41	19.44	19.37		
Channel				501204	518598	535998	21.0	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.47	19.43	19.42	21.0	0.0
Channel				500700	518598	536496		
Frequency (MHz)				2503.5	2592.99	2682.48	21.0	0.0
15	QPSK	1	1	19.46	19.53	19.40		
Channel				500202	518598	537000	21.0	0.0
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.48	19.51	19.40	21.0	0.0

n48 Ant 2 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	646332			
Frequency (MHz)				3520	3624.99	3680			
40	PI2 BPSK	1	1	18.15	18.16	18.13			
40	PI2 BPSK	1	53	18.14	18.22	18.13	19.5	0.0	
40	PI2 BPSK	1	104	18.13	18.21	18.18			
40	PI2 BPSK	50	0	18.16	18.20	18.17	19.5	0.0	
40	PI2 BPSK	50	28	18.15	18.18	18.14	19.5	0.0	
40	PI2 BPSK	50	56	18.12	18.22	18.19	19.5	0.0	
40	PI2 BPSK	100	0	18.18	18.18	18.15			
40	QPSK	1	1	18.19	18.28	18.22			
40	QPSK	1	53	18.17	18.19	18.11	19.5	0.0	
40	QPSK	1	104	18.19	18.21	18.15			
40	QPSK	50	0	18.22	18.23	18.20	18.5	1.0	
40	QPSK	50	28	18.16	18.24	18.19	19.5	0.0	
40	QPSK	50	56	18.20	18.22	18.20	18.5	1.0	
40	QPSK	100	0	18.20	18.27	18.15			
40	16QAM	1	1	18.22	18.16	18.14	19.5	0.0	
40	64QAM	1	1	16.73	16.73	16.69	18.0	1.5	
40	256QAM	1	1	14.03	14.73	14.68	16.0	3.5	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	18.19	18.20	18.13	19.5	0.0	
Channel				637334	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3568.01	3624.99	3680.00			
20	QPSK	1	1	18.12	18.17	18.20	19.5	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.48			
16	QPSK	1	1	18.15	18.19	18.11	19.5	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565	3624.99	3695			
10	QPSK	1	1	18.17	18.16	18.12	19.5	0.0	

Par270 n77 PC2&3 Ant 2 DSI3									
BW [MHz]	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	PI2 BPSK	1	1	17.44	17.56	17.49			
100	PI2 BPSK	1	137	17.43	17.49	17.42	19.0	0.0	
100	PI2 BPSK	1	271	17.46	17.50	17.42			
100	PI2 BPSK	135	0	17.43	17.53	17.49	19.0	0.0	
100	PI2 BPSK	135	69	17.46	17.56	17.52	19.0	0.0	
100	PI2 BPSK	135	138	17.42	17.53	17.43	19.0	0.0	
100	PI2 BPSK	270	0	17.39	17.52	17.43			
100	QPSK	1	1	17.48	17.56	17.46			
100	QPSK	1	137	17.42	17.52	17.48	19.0	0.0	
100	QPSK	1	271	17.45	17.51	17.45			
100	QPSK	135	0	17.45	17.52	17.44	18.0	1.0	
100	QPSK	135	69	17.46	17.55	17.45	19.0	0.0	
100	QPSK	135	138	17.45	17.53	17.48	18.0	1.0	
100	QPSK	270	0	17.41	17.53	17.44			
100	16QAM	1	1	17.49	17.52	17.47	19.0	0.0	
100	64QAM	1	1	17.44	17.49	17.47	19.0	0.0	
100	256QAM	1	1	16.51	16.46	16.37	18.0	1.0	
Channel				645968	650000	654032	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	17.42	17.54	17.38	19.0	0.0	
Channel				646334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3930.01			
80	QPSK	1	109	17.40	17.52	17.37	19.0	0.0	
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3920.01			
60	QPSK	1	81	17.39	17.50	17.44	19.0	0.0	
Channel				646334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3935.02			
50	QPSK	1	67	17.37	17.52	17.43	19.0	0.0	
Channel				646000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	17.44	17.54	17.35	19.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3920.02			
20	QPSK	1	26	17.43	17.55	17.44	19.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	17.37	17.54	17.42	19.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3995			
10	QPSK	1	12	17.47	17.53	17.36	19.0	0.0	

Part27Q n77 PC2&3 Ant 2 DSI3									
BW [MHz]	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					
100	PI2 BPSK	1	1		17.69				
100	PI2 BPSK	1	137		17.71		19.0	0.0	
100	PI2 BPSK	1	271		17.65				
100	PI2 BPSK	135	0		17.67		19.0	0.0	
100	PI2 BPSK	135	69		17.67		19.0	0.0	
100	PI2 BPSK	135	138		17.68		19.0	0.0	
100	PI2 BPSK	270	0		17.65		19.0	0.0	
100	QPSK	1	1		17.74				
100	QPSK	1	137		17.71		19.0	0.0	
100	QPSK	1	271		17.63				
100	QPSK	135	0		17.65		18.0	1.0	
100	QPSK	135	69		17.73		19.0	0.0	
100	QPSK	135	138		17.63		18.0	1.0	
100	QPSK	270	0		17.72				
100	16QAM	1	1		17.71		19.0	0.0	
100	64QAM	1	1		17.72		19.0	0.0	
100	256QAM	1	1		16.73		16.0	1.0	
Channel				633000	633334	633668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123		17.51	17.54	17.39	19.0	0.0
Channel				633668	633334	634000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109		17.56	17.58	17.41	19.0	0.0
Channel				632000	633334	634668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81		17.49	17.53	17.43	19.0	0.0
Channel				631668	633334	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67		17.52	17.55	17.42	19.0	0.0
Channel				631334	633334	635332	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53		17.54	17.54	17.46	19.0	0.0
Channel				630668	633334	636000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26		17.54	17.51	17.44	19.0	0.0
Channel				630000	633334	636168	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19		17.53	17.57	17.57	19.0	0.0
Channel				630334	633334	636334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12		17.56	17.52	17.47	19.0	0.0

Part270 n78 Ant 2 DSI3									
BW [MHz]	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	PQ2 BPSK	1	1	3750	3750	3750			
100	PQ2 BPSK	1	137		18.09				
100	PQ2 BPSK	1	271		18.08		19.5	0.0	
100	PQ2 BPSK	1	271		18.04				
100	PQ2 BPSK	135	0		17.83		19.0	0.5	
100	PQ2 BPSK	135	69		17.93		19.5	0.0	
100	PQ2 BPSK	135	138		17.81		19.0	0.5	
100	PQ2 BPSK	270	0		17.85				
100	QPSK	1	1		18.12				
100	QPSK	1	137		18.03		19.5	0.0	
100	QPSK	1	271		18.05				
100	QPSK	135	0		17.16		18.5	1.0	
100	QPSK	135	69		18.00		19.5	0.0	
100	QPSK	135	138		17.88		18.5	1.0	
100	QPSK	270	0		17.25				
100	16QAM	1	1		17.13		18.5	1.0	
100	64QAM	1	1		15.58		17.0	2.5	
100	256QAM	1	1		13.60		15.0	4.5	
Channel									
				646668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3745.02	3750	3755.01			
90	QPSK	1	123		18.03	18.04	18.04	19.5	0.0
Channel									
				649334	650000	650968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3740.01	3750	3760.02			
80	QPSK	1	109		17.98	18.06	18.04	19.5	0.0
Channel									
				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3735	3750	3765			
70	QPSK	1	96		17.99	17.99	19.5	0.0	0.0
Channel									
				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3730.02	3750	3770.01			
60	QPSK	1	81		18.02	18.05	18.02	19.5	0.0
Channel									
				648334	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3725.01	3750	3775.02			
50	QPSK	1	67		18.05	18.08	18.03	19.5	0.0
Channel									
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3720	3750	3780			
40	QPSK	1	53		18.04	18.04	18.02	19.5	0.0
Channel									
				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3715.02	3750	3795.01			
30	QPSK	1	39		18.01	17.97	18.04	19.5	0.0
Channel									
				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3710.01	3750	3790.02			
20	QPSK	1	26		17.98	17.97	18.03	19.5	0.0
Channel									
				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3707.52	3750	3792.51			
15	QPSK	1	19		18.00	18.02	17.99	19.5	0.0
Channel									
				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3705	3750	3795			
10	QPSK	1	12		18.02	18.01	18.05	19.5	0.0

Part270 n78 HPUE Ant 2 DSI3									
BW [MHz]	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	PQ2 BPSK	1	1	3750	3750	3750			
100	PQ2 BPSK	1	1		18.68				
100	PQ2 BPSK	1	137		18.62		20.0	0.0	0.0
100	PQ2 BPSK	1	271		18.68				
100	PQ2 BPSK	135	0		18.66		20.0	0.0	0.0
100	PQ2 BPSK	135	69		18.64		20.0	0.0	0.0
100	PQ2 BPSK	135	138		18.66		20.0	0.0	0.0
100	PQ2 BPSK	270	0		18.67				
100	QPSK	1	1		18.69				
100	QPSK	1	137		18.69		20.0	0.0	0.0
100	QPSK	1	271		18.62				
100	QPSK	135	0		18.63		19.0	1.0	1.0
100	QPSK	135	69		18.68		20.0	0.0	0.0
100	QPSK	135	138		18.65		19.0	1.0	1.0
100	QPSK	270	0		18.65				
100	16QAM	1	1		18.68		20.0	0.0	0.0
100	64QAM	1	1		18.63		20.0	0.0	0.0
100	256QAM	1	1		18.62		18.0	2.0	2.0
Channel									
90	QPSK	1	123	649600	650000	650334	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
90	QPSK	1	123	649334	650000	650968	Tune-up limit (dbm)	MPR (db)	
80	QPSK	1	109	3740.01	3750	3760.02			
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.39	18.47	18.36	20.0	0.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	95	646000	650000	651000	Tune-up limit (dbm)	MPR (db)	
70	QPSK	1	95	18.44	18.55	18.39	20.0	0.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	95	648668	650000	651334	Tune-up limit (dbm)	MPR (db)	
60	QPSK	1	81	3730.02	3750	3770.01			
Channel									
Frequency (MHz)									
60	QPSK	1	81	18.41	18.56	18.30	20.0	0.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	67	643334	650000	651000	Tune-up limit (dbm)	MPR (db)	
50	QPSK	1	67	18.43	18.50	18.36	20.0	0.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	53	648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
40	QPSK	1	53	18.45	18.47	18.40	20.0	0.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	39	647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
30	QPSK	1	39	18.40	18.54	18.40	20.0	0.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	26	647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
20	QPSK	1	26	18.45	18.46	18.41	20.0	0.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	19	647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
15	QPSK	1	19	18.47	18.47	18.38	20.0	0.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	12	647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
10	QPSK	1	12	18.50	18.55	18.37	20.0	0.0	0.0

Part27Q 78 Ant 2 DSI3									
BW [MHz]	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	PQ2 BPSK	1	1		18.14				
100	PQ2 BPSK	1	137		18.14		19.5	0.0	
100	PQ2 BPSK	1	271		18.14				
100	PQ2 BPSK	135	0		17.74		19.0	0.5	
100	PQ2 BPSK	135	69		18.13		19.5	0.0	
100	PQ2 BPSK	135	138		17.69		19.0	0.5	
100	PQ2 BPSK	270	0		17.69				
100	QPSK	1	1		18.28				
100	QPSK	1	137		18.22		19.5	0.0	
100	QPSK	1	271		18.18				
100	QPSK	135	0		17.21		18.5	1.0	
100	QPSK	135	69		18.22		19.5	0.0	
100	QPSK	135	138		17.27		18.5	1.0	
100	QPSK	270	0		17.27				
100	16QAM	1	1		17.22		18.5	1.0	
100	64QAM	1	1		15.72		17.0	2.5	
100	256QAM	1	1		13.73		15.0	4.5	
Channel									
90	QPSK	1	123	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3000.01	3005.02			
90	QPSK	1	123		18.13	18.12	18.16	19.5	0.0
Channel									
Frequency (MHz)				632968	633334	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109		3485.02	3000.01	3510.01		
Channel				18.19	18.13	18.13	19.5	0.0	
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	96		3485.01	3000.01	3515.01		
Channel				18.13	18.15	18.12	19.5	0.0	
Frequency (MHz)				632000					
60	QPSK	1	81		18.19	18.14	18.07	19.5	0.0
Channel									
Frequency (MHz)				631968	633334	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67		3475.02	3000.01	3505		
Channel				18.14	18.14	18.19	19.5	0.0	
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53		3470.01	3000.01	3500.01		
Channel				18.10	18.22	18.12	19.5	0.0	
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	39		3465	3000.01	3505.02		
Channel				18.12	18.15	18.09	19.5	0.0	
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26		3460.02	3000.01	3500		
Channel				18.16	18.16	18.14	19.5	0.0	
Frequency (MHz)				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12		3457.5	3000.01	3502.82		
Channel				18.14	18.18	18.10	19.5	0.0	
Frequency (MHz)				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	7		3455.01	3000.01	3500.01		
Channel				18.14	18.16	18.07	19.5	0.0	

Part27Q 78 HPUE Ant 2 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Main Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	18.82	3500.01				
100	PQ2 BPSK	1	137	18.83			20.0	0.0	
100	PQ2 BPSK	1	271	18.80					
100	PQ2 BPSK	135	0	18.82			20.0	0.0	
100	PQ2 BPSK	135	69	18.80			20.0	0.0	
100	PQ2 BPSK	135	138	18.83			20.0	0.0	
100	PQ2 BPSK	270	0	18.77			20.0	0.0	
100	QPSK	1	1	18.85					
100	QPSK	1	137	18.80			20.0	0.0	
100	QPSK	1	271	18.85					
100	QPSK	135	0	18.82			19.0	1.0	
100	QPSK	135	69	18.84			20.0	0.0	
100	QPSK	135	138	18.83			19.0	1.0	
100	QPSK	270	0	18.81			20.0	0.0	
100	16QAM	1	1	18.76			20.0	0.0	
100	64QAM	1	1	18.74			20.0	0.0	
100	256QAM	1	1	18.77			18.0	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	18.44	18.61	18.60	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.53	18.59	18.60	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	18.50	18.64	18.59	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	18.46	18.56	18.53	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	18.49	18.57	18.63	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	18.46	18.63	18.62	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	18.43	18.55	18.63	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	25	18.46	18.61	18.59	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	18.47	18.60	18.54	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	18.54	18.65	18.57	20.0	0.0	

n38 Ant 3 DS13							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	
Channel							
Frequency (MHz)							
40	PI2 BPSK	1	1	23.65	23.71	23.71	
40	PI2 BPSK	1	53	23.65	23.75	23.72	24.5
40	PI2 BPSK	1	104	23.64	23.68	23.62	
40	PI2 BPSK	50	0	23.16	23.28	23.28	24.0
40	PI2 BPSK	50	28	23.67	23.72	23.69	24.5
40	PI2 BPSK	50	56	23.20	23.27	23.20	24.0
40	PI2 BPSK	100	0	23.18	23.32	23.31	24.0
40	QPSK	1	1	23.71	23.79	23.76	
40	QPSK	1	53	23.67	23.75	23.73	24.5
40	QPSK	1	104	23.68	23.68	23.68	
40	QPSK	50	0	22.89	22.84	22.71	23.5
40	QPSK	50	28	23.62	23.72	23.69	24.5
40	QPSK	50	56	22.70	22.74	22.80	23.5
40	QPSK	100	0	22.73	22.85	22.75	23.5
40	16QAM	1	1	22.74	22.76	22.76	23.5
40	64QAM	1	1	21.26	21.33	21.20	22.0
40	256QAM	1	1	19.22	19.30	19.27	22.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.65	23.67	23.65	24.5
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.64	23.67	23.64	24.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.69	23.67	23.71	24.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.58	23.74	23.73	24.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.65	23.74	23.65	24.5

n41 Ant 3 DS13							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.73	23.82	23.79	
100	PI2 BPSK	1	137	23.76	23.80	23.82	24.5
100	PI2 BPSK	1	271	23.75	23.80	23.67	
100	PI2 BPSK	135	0	23.24	23.39	23.31	24.0
100	PI2 BPSK	135	69	23.76	23.82	23.70	24.5
100	PI2 BPSK	135	138	23.23	23.34	23.26	24.0
100	PI2 BPSK	270	0	23.19	23.36	23.42	
100	QPSK	1	1	23.72	23.86	23.79	
100	QPSK	1	107	23.71	23.83	23.80	24.5
100	QPSK	1	271	23.71	23.71	23.70	
100	QPSK	135	0	22.74	22.89	22.71	23.5
100	QPSK	135	69	23.88	23.83	23.76	24.5
100	QPSK	135	138	22.74	22.82	22.87	23.5
100	QPSK	270	0	22.76	22.96	22.82	23.5
100	16QAM	1	1	22.82	22.80	22.87	23.5
100	64QAM	1	1	21.32	21.41	21.21	22.0
100	256QAM	1	1	19.28	19.34	19.31	22.0
Channel							
Frequency (MHz)							
90	QPSK	1	123	23.61	23.79	23.65	24.5
Channel							
Frequency (MHz)							
80	QPSK	1	109	23.59	23.76	23.69	24.5
Channel							
Frequency (MHz)							
60	QPSK	1	81	23.63	23.73	23.71	24.5
Channel							
Frequency (MHz)							
50	QPSK	1	67	23.67	23.80	23.67	24.5
Channel							
Frequency (MHz)							
40	QPSK	1	53	23.58	23.74	23.74	24.5
Channel							
Frequency (MHz)							
30	QPSK	1	39	23.68	23.75	23.73	24.5
Channel							
Frequency (MHz)							
20	QPSK	1	26	23.67	23.81	23.75	24.5
Channel							
Frequency (MHz)							
15	QPSK	1	19	23.61	23.74	23.73	24.5
Channel							
Frequency (MHz)							
10	QPSK	1	12	23.61	23.73	23.74	24.5

n48 Ant 3 DS13							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	
Channel							
Frequency (MHz)							
40	PI2 BPSK	1	1	20.41	20.42	20.43	
40	PI2 BPSK	1	53	20.44	20.47	20.46	22.0
40	PI2 BPSK	1	104	20.35	20.48	20.39	
40	PI2 BPSK	50	0	19.93	20.07	20.00	21.5
40	PI2 BPSK	50	28	20.46	20.44	20.47	22.0
40	PI2 BPSK	50	56	19.97	20.09	20.06	21.5
40	PI2 BPSK	100	0	19.98	20.04	20.07	
40	QPSK	1	1	20.48	20.55	20.52	
40	QPSK	1	53	20.40	20.44	20.48	22.0
40	QPSK	1	104	20.45	20.51	20.47	
40	QPSK	50	0	19.97	20.07	19.97	21.0
40	QPSK	50	28	20.40	20.50	20.46	22.0
40	QPSK	50	56	19.98	20.06	20.05	21.0
40	QPSK	100	0	19.93	20.05	19.96	21.0
40	16QAM	1	1	19.95	20.06	20.02	21.0
40	64QAM	1	1	17.98	18.10	18.05	19.5
40	256QAM	1	1	15.98	16.11	16.00	17.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.36	20.51	20.48	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.41	20.48	20.43	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.43	20.47	20.41	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.41	20.48	20.39	22.0



Par270 n77 Ant 3 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 660000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	18.42	18.47	18.41			
100	PI2 BPSK	1	137	18.44	18.48	18.43	20.0	0.0	
100	PI2 BPSK	1	271	18.47	18.51	18.44			
100	PI2 BPSK	135	0	18.10	18.08	18.00	19.5	0.5	
100	PI2 BPSK	135	69	18.47	18.50	18.42	20.0	0.0	
100	PI2 BPSK	135	138	18.03	18.13	17.97	19.5	0.5	
100	PI2 BPSK	270	0	18.09	18.07	18.06			
100	QPSK	1	1	18.55	18.59	18.52			
100	QPSK	1	137	18.44	18.50	18.47	20.0	0.0	
100	QPSK	1	271	18.42	18.47	18.40			
100	QPSK	135	0	17.54	17.54	17.51	19.0	1.0	
100	QPSK	135	69	18.44	18.57	18.44	20.0	0.0	
100	QPSK	135	138	17.52	17.59	17.54	19.0	1.0	
100	QPSK	270	0	17.57	17.63	17.54			
100	16QAM	1	1	17.57	17.55	17.54	19.0	1.0	
100	64QAM	1	1	16.02	16.10	16.03	17.5	2.5	
100	256QAM	1	1	14.03	14.00	14.00	15.5	4.5	
Channel									
Frequency (MHz)				650000	655000	662334	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3840	3935.01			
90	QPSK	1	123	18.45	18.52	18.39	20.0	0.0	
Channel									
Frequency (MHz)				3740.01	3840	3940.02	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	18.47	18.53	18.50	20.0	0.0	
Channel									
Frequency (MHz)				649998	650000	653334	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	81	18.42	18.44	18.45	20.0	0.0	
Channel									
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	18.48	18.48	18.43	20.0	0.0	
Channel									
Frequency (MHz)				648800	650000	654000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	18.50	18.51	18.48	20.0	0.0	
Channel									
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	18.45	18.50	18.48	20.0	0.0	
Channel									
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	18.46	18.49	18.39	20.0	0.0	
Channel									
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	18.49	18.47	18.48	20.0	0.0	

Par270 n77 HPUE Ant 3 DS13									
BW [MHz]	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)				3760	3840	3930			
100	PI2 BPSK	1	1	21.43	21.46	21.43			
100	PI2 BPSK	1	137	21.40	21.54	21.49	23.0	0.0	
100	PI2 BPSK	1	271	21.50	21.54	21.45			
100	PI2 BPSK	135	0	21.05	21.10	20.99	22.5	0.5	
100	PI2 BPSK	135	69	21.45	21.54	21.41	23.0	0.0	
100	PI2 BPSK	135	138	21.06	21.16	20.96	22.5	0.5	
100	PI2 BPSK	270	0	21.07	21.07	21.11			
100	QPSK	1	1	21.56	21.62	21.56			
100	QPSK	1	137	21.39	21.48	21.47	23.0	0.0	
100	QPSK	1	271	21.47	21.41	21.45			
100	QPSK	135	0	20.48	20.55	20.46	22.0	1.0	
100	QPSK	135	69	21.38	21.58	21.50	23.0	0.0	
100	QPSK	135	138	20.58	20.59	20.49	22.0	1.0	
100	QPSK	270	0	20.57	20.55	20.52			
100	16QAM	1	1	20.52	20.57	20.49	22.0	1.0	
100	64QAM	1	1	19.06	19.08	19.01	20.5	2.5	
100	256QAM	1	1	17.04	17.00	17.02	18.5	4.5	
Channel									
Frequency (MHz)				649688	650000	650234	Tune-up limit (dbm)	MPR (db)	
90	QPSK	1	123	21.45	21.52	21.47	23.0	0.0	
Channel									
Frequency (MHz)				649314	650000	650402	Tune-up limit (dbm)	MPR (db)	
80	QPSK	1	109	21.43	21.56	21.50	23.0	0.0	
Channel									
Frequency (MHz)				648668	650000	650334	Tune-up limit (dbm)	MPR (db)	
80	QPSK	1	81	21.43	21.48	21.44	23.0	0.0	
Channel									
Frequency (MHz)				648334	650000	650668	Tune-up limit (dbm)	MPR (db)	
50	QPSK	1	67	21.45	21.49	21.52	23.0	0.0	
Channel									
Frequency (MHz)				648000	650000	650600	Tune-up limit (dbm)	MPR (db)	
40	QPSK	1	53	21.43	21.49	21.48	23.0	0.0	
Channel									
Frequency (MHz)				647334	650000	650668	Tune-up limit (dbm)	MPR (db)	
20	QPSK	1	26	21.48	21.55	21.47	23.0	0.0	
Channel									
Frequency (MHz)				647168	650000	650725	Tune-up limit (dbm)	MPR (db)	
15	QPSK	1	19	21.52	21.57	21.53	23.0	0.0	
Channel									
Frequency (MHz)				647000	650000	650500	Tune-up limit (dbm)	MPR (db)	
10	QPSK	1	12	21.49	21.50	21.48	23.0	0.0	

Part27Q n77 Ant 3 DSI3									
BW [MHz]	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)				633334	633501				
100	PI2 BPSK	1	1	18.62					
100	PI2 BPSK	1	137	18.62			20.0	0.0	
100	PI2 BPSK	1	271	18.60					
100	PI2 BPSK	135	0	18.42			19.5	0.5	
100	PI2 BPSK	135	69	18.76			20.0	0.0	
100	PI2 BPSK	135	138	18.44			19.5	0.5	
100	PI2 BPSK	270	0	18.31					
100	QPSK	1	1	18.69					
100	QPSK	1	137	18.69			20.0	0.0	
100	QPSK	1	271	18.77					
100	QPSK	135	0	17.90			19.0	1.0	
100	QPSK	135	69	18.67			20.0	0.0	
100	QPSK	135	138	17.91			19.0	1.0	
100	QPSK	270	0	17.97					
100	16QAM	1	1	17.90			19.0	1.0	
100	64QAM	1	1	16.42			17.5	2.5	
100	256QAM	1	1	14.40			15.5	4.5	
Channel									
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR	
90	QPSK	1	123	18.78	18.62	18.68	20.0	0.0	
Channel									
Frequency (MHz)				632968	633334	634000	Tune-up limit (dBm)	MPR	
80	QPSK	1	109	18.71	18.80	18.74	20.0	0.0	
Channel									
Frequency (MHz)				633000	633334	634668	Tune-up limit (dBm)	MPR	
80	QPSK	1	81	18.72	18.79	18.69	20.0	0.0	
Channel									
Frequency (MHz)				631968	633334	635000	Tune-up limit (dBm)	MPR	
50	QPSK	1	67	18.76	18.81	18.74	20.0	0.0	
Channel									
Frequency (MHz)				631534	633334	635334	Tune-up limit (dBm)	MPR	
40	QPSK	1	53	18.77	18.80	18.73	20.0	0.0	
Channel									
Frequency (MHz)				633968	633334	635000	Tune-up limit (dBm)	MPR	
20	QPSK	1	26	18.74	18.79	18.69	20.0	0.0	
Channel									
Frequency (MHz)				635000	633334	636168	Tune-up limit (dBm)	MPR	
15	QPSK	1	19	18.70	18.62	18.68	20.0	0.0	
Channel									
Frequency (MHz)				633034	633334	636334	Tune-up limit (dBm)	MPR	
10	QPSK	1	12	18.70	18.63	18.71	20.0	0.0	

Part27Q n77 HPUE Ant 3 DS13									
BW (MHz)	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	3500.01				
100	Pi2 BPSK	1	1	21.85					
100	Pi2 BPSK	1	137	21.86			23.0		0.0
100	Pi2 BPSK	1	271	21.75					
100	Pi2 BPSK	135	0	21.39			22.5		0.5
100	Pi2 BPSK	135	69	21.62			23.0		0.0
100	Pi2 BPSK	135	138	21.47			22.5		0.5
100	Pi2 BPSK	270	0	21.32					
100	QPSK	1	1	21.94					
100	QPSK	1	137	21.86			23.0		0.0
100	QPSK	1	271	21.77					
100	QPSK	135	0	20.94			22.0		1.0
100	QPSK	135	69	21.81			23.0		0.0
100	QPSK	135	138	20.93			22.0		1.0
100	QPSK	270	0	21.01					
100	16QAM	1	1	20.92			22.0		1.0
100	64QAM	1	1	19.43			20.5		2.5
100	256QAM	1	1	17.43			18.5		4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	21.75	21.79	21.63	23.0		0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3498.02	3500.01	3510			
80	QPSK	1	109	21.78	21.85	21.66	23.0		0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3500.01	3520.02			
80	QPSK	1	81	21.80	21.78	21.67	23.0		0.0
Channel				637668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3476.02	3500.01	3525			
50	QPSK	1	67	21.78	21.86	21.73	23.0		0.0
Channel				6370.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	21.75	21.84	21.68	23.0		0.0
Channel				636668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.02	3500.01	3540			
20	QPSK	1	26	21.82	21.90	21.83	23.0		0.0
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	21.72	21.79	21.63	23.0		0.0
Channel				635334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3458.01	3500.01	3545.01			
10	QPSK	1	12	21.76	21.82	21.68	23.0		0.0

Part270 n78 Ant 3 DSI3									
BW (MHz)	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	18.57					
100	Pi2 BPSK	1	137	18.55			20.0	0.0	
100	Pi2 BPSK	1	271	18.58					
100	Pi2 BPSK	135	0	18.09			19.5	0.5	
100	Pi2 BPSK	135	69	18.59			20.0	0.0	
100	Pi2 BPSK	135	138	18.22			19.5	0.5	
100	Pi2 BPSK	270	0	18.17					
100	QPSK	1	1	18.05					
100	QPSK	1	137	18.56			20.0	0.0	
100	QPSK	1	271	18.56					
100	QPSK	135	0	17.57			19.0	1.0	
100	QPSK	135	69	18.60			20.0	0.0	
100	QPSK	135	138	17.60			19.0	1.0	
100	QPSK	270	0	17.66					
100	16QAM	1	1	17.58			19.0	1.0	
100	64QAM	1	1	16.15			17.5	2.5	
100	256QAM	1	1	14.14			15.5	4.5	
Channel				640668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	123	18.53	18.59	18.43	20.0	0.0	
Channel				640334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	18.47	18.55	18.43	20.0	0.0	
Channel				640000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	18.50	18.59	18.43	20.0	0.0	
Channel				640668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	18.46	18.52	18.50	20.0	0.0	
Channel				640334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	18.46	18.57	18.39	20.0	0.0	
Channel				640000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	18.48	18.63	18.47	20.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	18.55	18.54	18.42	20.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	18.48	18.63	18.42	20.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	18.50	18.58	18.48	20.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	18.50	18.55	18.46	20.0	0.0	

Part270 n78 HPUE Ant 3 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	Pi2 BPSK	1	1	21.62					
100	Pi2 BPSK	1	137	21.53			23.0		0.0
100	Pi2 BPSK	1	271	21.62					
100	Pi2 BPSK	135	0	21.06			22.5		0.5
100	Pi2 BPSK	135	69	21.57			23.0		0.0
100	Pi2 BPSK	135	138	21.27			22.5		0.5
100	Pi2 BPSK	270	0	21.20					
100	QPSK	1	1	21.84					
100	QPSK	1	137	21.81			23.0		0.0
100	QPSK	1	271	21.62					
100	QPSK	135	0	20.66			22.0		1.0
100	QPSK	135	69	21.61			23.0		0.0
100	QPSK	135	138	20.59			22.0		1.0
100	QPSK	270	0	20.70					
100	16QAM	1	1	20.52			22.0		1.0
100	64QAM	1	1	19.14			20.5		2.5
100	256QAM	1	1	17.20			18.5		4.5
Channel				646668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.02	3750	3753.01			
90	QPSK	1	123	21.55	21.55	21.43	23.0		0.0
Channel				640334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	21.55	21.53	21.39	23.0		0.0
Channel				640000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	21.52	21.62	21.44	23.0		0.0
Channel				640668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	67	21.50	21.47	21.39	23.0		0.0
Channel				640000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3750	3775			
40	QPSK	1	53	21.51	21.57	21.40	23.0		0.0
Channel				640334	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.05	3750	3783.31			
30	QPSK	1	39	21.47	21.54	21.42	23.0		0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	21.44	21.50	21.44	23.0		0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	21.56	21.54	21.45	23.0		0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	21.47	21.63	21.45	23.0		0.0

Part27Q 78 Ant 3 DSI3							
BW (MHz)	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)				3000.01			
100	P12 BPSK	1	1	18.90			
100	P12 BPSK	1	137	18.96			20.0
100	P12 BPSK	1	271	18.98			
100	P12 BPSK	135	0	18.60			19.5
100	P12 BPSK	135	69	18.69			20.0
100	P12 BPSK	135	138	18.55			19.5
100	P12 BPSK	270	0	18.37			
100	QPSK	1	1	19.06			
100	QPSK	1	137	18.95			20.0
100	QPSK	1	271	18.87			
100	QPSK	135	0	17.88			19.0
100	QPSK	135	69	19.04			20.0
100	QPSK	135	138	18.54			19.0
100	QPSK	270	0	18.10			
100	16QAM	1	1	18.07			19.0
100	64QAM	1	1	18.56			17.5
100	256QAM	1	1	14.37			15.5
Channel				633000	633334	633668	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02	
90	QPSK	1	123	18.88	18.95	18.84	20.0
Channel				632068	633334	634600	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3480.02	3500.01	3519	
80	QPSK	1	109	18.85	18.93	18.85	20.0
Channel				632334	633334	634334	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01	
70	QPSK	1	96	18.86	18.94	18.82	20.0
Channel				632000	633334	634668	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3480	3500.01	3505.02	
60	QPSK	1	81	18.88	18.88	18.77	20.0
Channel				631668	633334	635000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525	
50	QPSK	1	67	18.95	18.95	18.85	20.0
Channel				631334	633334	635334	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3470.01	3500.01	3528.01	
40	QPSK	1	53	18.87	18.94	18.83	20.0
Channel				631000	633334	635668	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02	
30	QPSK	1	39	18.92	18.89	18.82	20.0
Channel				630505	633334	636000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	26	18.94	19.00	18.76	20.0
Channel				630000	633334	636334	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52	
15	QPSK	1	19	18.89	18.89	18.79	20.0
Channel				630334	633334	636334	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3452.01	3500.01	3543.01	
10	QPSK	1	12	18.85	18.95	18.82	20.0

Part27Q 78 HPUE Ant 3 DSI3							
BW (MHz)	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)				3000.01			
100	P12 BPSK	1	1	21.91			
100	P12 BPSK	1	137	21.97			23.0
100	P12 BPSK	1	271	22.04			
100	P12 BPSK	135	0	21.65			22.5
100	P12 BPSK	135	69	21.88			23.0
100	P12 BPSK	135	138	21.50			22.5
100	P12 BPSK	270	0	21.40			
100	QPSK	1	1	22.07			
100	QPSK	1	137	21.99			23.0
100	QPSK	1	271	21.85			
100	QPSK	135	0	20.96			22.0
100	QPSK	135	69	22.05			23.0
100	QPSK	135	138	20.59			22.0
100	QPSK	270	0	21.15			
100	16QAM	1	1	21.04			22.0
100	64QAM	1	1	19.61			20.5
100	256QAM	1	1	17.62			16.5
Channel				633000	633334	633668	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02	
90	QPSK	1	123	21.94	21.99	21.88	23.0
Channel				632068	633334	634600	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3480.02	3500.01	3519	
80	QPSK	1	109	21.89	21.95	21.90	23.0
Channel				632334	633334	634334	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01	
70	QPSK	1	96	21.91	21.93	21.80	23.0
Channel				632000	633334	634668	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3480	3500.01	3505.02	
60	QPSK	1	81	21.86	21.86	21.82	23.0
Channel				631668	633334	635000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525	
50	QPSK	1	67	21.88	21.99	21.88	23.0
Channel				631334	633334	635334	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3470.01	3500.01	3528.01	
40	QPSK	1	53	21.92	21.96	21.87	23.0
Channel				631000	633334	635668	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02	
30	QPSK	1	39	21.89	21.93	21.89	23.0
Channel				630505	633334	636000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	26	21.86	21.95	21.82	23.0
Channel				630000	633334	636334	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52	
15	QPSK	1	19	21.86	21.93	21.85	23.0
Channel				630334	633334	636334	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3452.01	3500.01	3543.01	
10	QPSK	1	12	21.85	21.90	21.85	23.0

n38 Ant 4 DSI3									
BW [MHz]	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	23.5	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	21.96	22.00	21.97			
40	PI/2 BPSK	1	53	21.89	21.99	21.89			
40	PI/2 BPSK	1	104	21.91	21.97	21.94	23.0	0.5	
40	PI/2 BPSK	50	0	21.56	21.53	21.50			
40	PI/2 BPSK	50	28	21.98	22.01	21.91			
40	PI/2 BPSK	50	56	21.45	21.55	21.54			
40	PI/2 BPSK	100	0	21.45	21.52	21.56	23.0	0.5	
40	QPSK	1	1	22.01	22.07	22.02			
40	QPSK	1	53	21.98	22.04	21.98			
40	QPSK	1	104	21.92	22.03	21.97			
40	QPSK	50	0	21.03	21.11	21.05	22.5	1.0	
40	QPSK	50	28	21.98	21.98	21.89			
40	QPSK	50	56	20.98	21.10	21.07			
40	QPSK	100	0	20.98	21.09	21.05			
40	16QAM	1	1	21.05	21.06	20.97	22.5	1.0	
40	64QAM	1	1	19.54	19.60	19.46			
40	256QAM	1	1	17.50	17.57	17.54			
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	21.95	21.95	21.91	23.5	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	21.90	21.97	21.93			
Channel				516000	519000	522000	23.5	0.0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	21.92	21.96	22.00			
Channel				515592	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	21.92	21.96	21.97	23.5	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	21.97	22.05	21.91			

n41 Ant 4 DSI3									
BW [MHz]	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	23.09	23.09	23.04	25.0	0.0	
100	PI/2 BPSK	1	137	23.01	23.07	23.05			
100	PI/2 BPSK	1	271	23.06	23.07	23.06	24.5	0.5	
100	PI/2 BPSK	135	0	22.64	22.58	22.57			
100	PI/2 BPSK	135	69	23.02	23.07	23.04	25.0	0.0	
100	PI/2 BPSK	135	138	22.56	22.64	22.65			
100	PI/2 BPSK	270	0	22.52	22.57	22.66	24.5	0.5	
100	QPSK	1	1	23.05	23.18	23.06			
100	QPSK	1	137	23.05	23.12	23.04	25.0	0.0	
100	QPSK	1	271	23.01	23.14	23.10			
100	QPSK	135	0	22.09	22.19	22.15	24.0	1.0	
100	QPSK	135	69	23.01	23.04	23.02			
100	QPSK	135	138	22.06	22.17	22.13	25.0	0.0	
100	QPSK	270	0	22.11	22.18	22.15			
100	16QAM	1	1	22.13	22.17	22.15	24.0	1.0	
100	64QAM	1	1	20.65	20.72	20.59			
100	256QAM	1	1	18.63	18.63	18.58	22.5	2.5	
100	256QAM	1	1	18.63	18.63	18.58			
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.02	23.08	22.97	25.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	22.94	23.14	22.98			
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	22.92	23.13	22.99	25.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	22.97	23.08	22.97			
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.99	23.09	22.95	25.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.02	23.12	22.99			
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.97	23.13	22.95	25.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.98	23.07	23.00			
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	22.98	23.14	23.00	25.0	0.0	

n48 Ant 5 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	646332			
Frequency (MHz)				3520	3624.99	3680			
40	PI2 BPSK	1	1	24.45	24.48	24.46			
40	PI2 BPSK	1	53	24.45	24.49	24.44	26.0	0.0	
40	PI2 BPSK	1	104	24.37	24.53	24.45			
40	PI2 BPSK	50	0	23.99	24.03	24.01	25.5	0.5	
40	PI2 BPSK	50	28	24.40	24.52	24.46	26.0	0.0	
40	PI2 BPSK	50	56	24.03	24.02	24.05	25.5	0.5	
40	PI2 BPSK	100	0	24.05	24.06	24.02			
40	QPSK	1	1	24.50	24.57	24.52			
40	QPSK	1	53	24.41	24.52	24.46	26.0	0.0	
40	QPSK	1	104	24.45	24.46	24.40			
40	QPSK	50	0	23.49	23.63	23.46	25.0	1.0	
40	QPSK	50	28	24.44	24.51	24.44	26.0	0.0	
40	QPSK	50	56	23.54	23.51	23.47	25.0	1.0	
40	QPSK	100	0	23.51	23.57	23.47			
40	16QAM	1	1	23.55	23.52	23.56	25.0	1.0	
40	64QAM	1	1	22.02	22.10	21.98	23.5	2.5	
40	256QAM	1	1	19.98	20.03	20.08	21.5	4.5	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	24.39	24.54	24.44	26.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3568.03	3624.99	3680.00			
20	QPSK	1	1	24.43	24.49	24.43	26.0	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3567.52	3624.99	3662.48			
15	QPSK	1	1	24.43	24.45	24.41	23.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565	3624.99	3695			
10	QPSK	1	1	24.44	24.48	24.46	26.0	0.0	

Par270 n77 Ant 5 DSI3									
BW [MHz]	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	PI2 BPSK	1	1	22.91	23.01	22.96			
100	PI2 BPSK	1	137	23.00	23.02	22.97	24.5	0.0	
100	PI2 BPSK	1	271	22.98	23.01	23.01			
100	PI2 BPSK	135	0	22.59	22.67	22.61	24.0	0.5	
100	PI2 BPSK	135	69	23.01	23.03	22.96	24.5	0.0	
100	PI2 BPSK	135	138	22.50	22.65	22.56	24.0	0.5	
100	PI2 BPSK	270	0	22.58	22.66	22.55			
100	QPSK	1	1	23.05	23.11	23.08			
100	QPSK	1	137	22.95	23.03	23.03	24.5	0.0	
100	QPSK	1	271	22.98	23.08	23.03			
100	QPSK	135	0	22.09	22.11	22.08	23.5	1.0	
100	QPSK	135	69	22.96	23.05	22.98	24.5	0.0	
100	QPSK	135	138	22.09	22.08	22.06	23.5	1.0	
100	QPSK	270	0	22.03	22.06	22.06			
100	16QAM	1	1	22.08	22.07	22.08	23.5	1.0	
100	64QAM	1	1	20.52	20.67	20.60	22.0	2.5	
100	256QAM	1	1	18.54	18.59	18.53	20.0	4.5	
Channel				646968	652000	657154	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	23.00	23.05	23.04	24.5	0.0	
Channel				646334	656000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3950.01			
80	QPSK	1	109	22.98	22.98	22.95	24.5	0.0	
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	22.95	22.98	23.01	24.5	0.0	
Channel				646334	656000	663668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	23.02	23.09	23.00	24.5	0.0	
Channel				646000	656000	664000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	23.01	23.04	22.94	24.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3718.01	3840	3970.02			
20	QPSK	1	26	22.95	23.03	23.00	24.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	22.96	22.99	22.96	24.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	22.98	23.09	22.96	24.5	0.0	

Par270 n77 HPUE Ant 5 DSI3									
BW [MHz]	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	PI2 BPSK	1	1	23.69	26.07	23.54			
100	PI2 BPSK	1	137	26.04	26.07	25.94	27.5	0.0	
100	PI2 BPSK	1	271	25.94	25.98	26.00			
100	PI2 BPSK	135	0	25.55	25.73	25.58	27.0	0.5	
100	PI2 BPSK	135	69	26.06	26.05	25.95	27.5	0.0	
100	PI2 BPSK	135	138	25.50	25.63	25.50	27.0	0.5	
100	PI2 BPSK	270	0	25.52	25.71	25.56	27.0	0.5	
100	QPSK	1	1	26.10	26.14	26.11			
100	QPSK	1	137	26.00	26.06	26.06	27.5	0.0	
100	QPSK	1	271	26.02	26.03	26.05			
100	QPSK	135	0	25.07	25.12	25.12	26.5	1.0	
100	QPSK	135	69	26.01	26.09	26.02	27.5	0.0	
100	QPSK	135	138	25.06	25.08	25.10	26.5	1.0	
100	QPSK	270	0	25.02	25.12	25.06			
100	16QAM	1	1	25.08	25.11	25.08	26.5	1.0	
100	64QAM	1	1	23.48	23.71	23.66	25.0	2.5	
100	256QAM	1	1	21.60	21.61	21.47	23.0	4.5	
Channel				646968	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	26.05	26.05	25.99	27.5	0.0	
Channel				646334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3950.01			
80	QPSK	1	109	26.03	26.06	25.99	27.5	0.0	
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	25.99	26.07	26.04	27.5	0.0	
Channel				646334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	25.97	26.04	26.06	27.5	0.0	
Channel				646000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	25.99	26.09	26.01	27.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3718.01	3840	3970.02			
20	QPSK	1	26	25.99	26.05	26.02	27.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	25.97	26.08	26.04	27.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3980			
10	QPSK	1	12	25.95	26.06	26.04	27.5	0.0	

Part27Q n77 Ant 5 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	22.69	3000.01		24.5	0.0	
100	P12 BPSK	1	137	22.95					
100	P12 BPSK	1	271	23.01					
100	P12 BPSK	135	0	22.66					
100	P12 BPSK	135	69	23.03			24.5	0.5	
100	P12 BPSK	135	138	22.60					
100	P12 BPSK	270	0	22.66					
100	QPSK	1	1	23.07					
100	QPSK	1	137	23.06			24.5	0.0	
100	QPSK	1	271	23.05					
100	QPSK	135	0	22.03					
100	QPSK	135	69	23.05					
100	QPSK	135	138	22.02			23.5	1.0	
100	QPSK	270	0	22.05					
100	16QAM	1	1	21.99					
100	64QAM	1	1	20.70					
100	256QAM	1	1	18.61			20.0	4.5	
Channel									
90	QPSK	1	123	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
				3495	3000.01	3006.02	24.5	0.0	
Channel									
80	QPSK	1	109	3489.02	3000.01	3510	Tune-up limit (dBm)	MPR (dB)	
				22.91	23.06	22.97	24.5	0.0	
Channel									
60	QPSK	1	81	22.99	23.02	23.02	Tune-up limit (dBm)	MPR (dB)	
				633000	633334	633668	24.5	0.0	
Channel									
50	QPSK	1	67	22.97	23.03	23.02	Tune-up limit (dBm)	MPR (dB)	
				631168	633334	635000	24.5	0.0	
Channel									
40	QPSK	1	53	22.93	23.00	23.03	Tune-up limit (dBm)	MPR (dB)	
				631534	633334	636334	24.5	0.0	
Channel									
30	QPSK	1	39	3470.01	3000.01	3000.01	Tune-up limit (dBm)	MPR (dB)	
				22.92	23.01	23.01	24.5	0.0	
Channel									
20	QPSK	1	26	350698	633334	636000	Tune-up limit (dBm)	MPR (dB)	
				3490.02	3000.01	3540	24.5	0.0	
Channel									
15	QPSK	1	19	22.96	23.04	23.00	Tune-up limit (dBm)	MPR (dB)	
				633000	633334	636334	24.5	0.0	
Channel									
10	QPSK	1	12	22.98	23.03	23.03	Tune-up limit (dBm)	MPR (dB)	
				633000	633334	636334	24.5	0.0	

Part27Q n77 HPUE Ant 5 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	25.63	3000.01		27.5	0.0	
100	P12 BPSK	1	137	25.96					
100	P12 BPSK	1	271	25.97					
100	P12 BPSK	135	0	25.62					
100	P12 BPSK	135	69	26.01			27.5	0.5	
100	P12 BPSK	135	138	25.60					
100	P12 BPSK	270	0	25.62					
100	QPSK	1	1	26.09					
100	QPSK	1	137	26.05			27.5	0.0	
100	QPSK	1	271	26.06					
100	QPSK	135	0	25.07					
100	QPSK	135	69	26.06					
100	QPSK	135	138	24.99			26.5	1.0	
100	QPSK	270	0	25.10					
100	16QAM	1	1	25.00					
100	64QAM	1	1	23.68					
100	256QAM	1	1	21.62			23.0	4.5	
Channel									
90	QPSK	1	123	25.93	3000.01	3005.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
80	QPSK	1	109	25.98	3000.01	3010.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
60	QPSK	1	81	25.91	3000.01	3005.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
50	QPSK	1	67	25.92	3000.01	3005.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
40	QPSK	1	53	25.94	3000.01	3005.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
20	QPSK	1	26	25.90	3000.01	3005.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
15	QPSK	1	19	25.90	3000.01	3004.52	Tune-up limit (dBm)	MPR (dB)	
Channel									
10	QPSK	1	12	25.92	3000.01	3004.52	Tune-up limit (dBm)	MPR (dB)	

Part27Q n78 Ant 5 DSI3									
BW [MHz]	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	P12 BPSK	1	1	22.90			24.5	0.0	
100	P12 BPSK	1	137	22.91					
100	P12 BPSK	1	271	22.89					
100	P12 BPSK	135	0	22.59					
100	P12 BPSK	135	69	22.89			24.5	0.5	
100	P12 BPSK	135	138	22.50					
100	P12 BPSK	270	0	22.63					
100	QPSK	1	1	23.00					
100	QPSK	1	137	22.98			24.5	0.0	
100	QPSK	1	271	22.98					
100	QPSK	135	0	21.95					
100	QPSK	135	69	22.93					
100	QPSK	135	138	21.89			23.5	1.0	
100	QPSK	270	0	22.02					
100	16QAM	1	1	21.90					
100	64QAM	1	1	20.61					
100	256QAM	1	1	18.51			20.0	4.5	
Channel									
90	QPSK	1	123	646668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3750	3755.01			
80	QPSK	1	109	22.81	22.96	22.83	24.5	0.0	
Channel									
80	QPSK	1	109	645334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
70	QPSK	1	95	22.88	22.96	22.91	24.5	0.0	
Channel									
70	QPSK	1	95	22.83	22.93	22.84	24.5	0.0	
Channel									
60	QPSK	1	81	646668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3738.02	3750	3760.01			
60	QPSK	1	81	22.77	22.96	22.85	24.5	0.0	
Channel									
50	QPSK	1	67	22.79	22.98	22.91	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3726.01	3750	3775.02			
50	QPSK	1	67	22.79	22.98	22.91	24.5	0.0	
Channel									
40	QPSK	1	53	22.82	22.96	22.92	24.5	0.0	
Channel									
40	QPSK	1	53	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
40	QPSK	1	53	22.82	22.96	22.92	24.5	0.0	
Channel									
30	QPSK	1	39	22.84	22.96	22.83	24.5	0.0	
Channel									
30	QPSK	1	39	647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
30	QPSK	1	26	22.86	22.98	22.85	24.5	0.0	
Channel									
20	QPSK	1	26	647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
20	QPSK	1	19	22.78	22.98	22.88	24.5	0.0	
Channel									
15	QPSK	1	19	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.52	3750	3795.51			
15	QPSK	1	12	22.78	22.94	22.83	24.5	0.0	

n38 Ant 7 DS13									
BW (MHz)	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)									
40	PI2 BPSK	1	1	15.32	15.38	15.31			
40	PI2 BPSK	1	53	15.27	15.36	15.27	17.0	0.0	
40	PI2 BPSK	1	104	15.30	15.33	15.33			
40	PI2 BPSK	50	0	15.33	15.36	15.34	17.0	0.0	
40	PI2 BPSK	50	28	15.30	15.33	15.27	17.0	0.0	
40	PI2 BPSK	50	56	15.27	15.34	15.37	17.0	0.0	
40	PI2 BPSK	100	0	15.27	15.32	15.33			
40	QPSK	1	1	15.35	15.40	15.38			
40	QPSK	1	53	15.35	15.37	15.28	17.0	0.0	
40	QPSK	1	104	15.29	15.36	15.32			
40	QPSK	50	0	15.32	15.35	15.31	17.0	0.0	
40	QPSK	50	28	15.33	15.39	15.34	17.0	0.0	
40	QPSK	50	56	15.33	15.36	15.26	17.0	0.0	
40	QPSK	100	0	15.32	15.38	15.33			
40	16QAM	1	1	15.35	15.37	15.29	17.0	0.0	
40	64QAM	1	1	15.34	15.37	15.35	17.0	0.0	
40	256QAM	1	1	15.36	15.38	15.32	15.5	1.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.28	15.35	15.28	17.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.30	15.36	15.29	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.34	15.38	15.27	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.23	15.38	15.36	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.24	15.35	15.35	17.0	0.0	

n41 Ant 7 DS13									
BW (MHz)	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)									
				2566.01	2562.99	2640			
100	PI2 BPSK	1	1	15.46	15.51	15.31			
100	PI2 BPSK	1	137	15.43	15.47	15.36	17.0	0.0	
100	PI2 BPSK	1	271	15.41	15.50	15.36			
100	PI2 BPSK	135	0	15.45	15.43	15.29	17.0	0.0	
100	PI2 BPSK	135	69	15.41	15.45	15.37	17.0	0.0	
100	PI2 BPSK	135	138	15.46	15.42	15.30	17.0	0.0	
100	PI2 BPSK	270	0	15.46	15.51	15.30			
100	QPSK	1	1	15.48	15.53	15.39			
100	QPSK	1	107	15.45	15.50	15.38	17.0	0.0	
100	QPSK	1	271	15.48	15.51	15.35			
100	QPSK	135	0	15.46	15.46	15.37	17.0	0.0	
100	QPSK	135	69	15.48	15.51	15.38	17.0	0.0	
100	QPSK	135	138	15.44	15.46	15.37	17.0	0.0	
100	QPSK	270	0	15.47	15.50	15.35			
100	16QAM	1	1	15.40	15.46	15.35	17.0	0.0	
100	64QAM	1	1	15.48	15.51	15.38	17.0	0.0	
100	256QAM	1	1	15.51	15.52	15.32	15.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	15.43	15.52	15.39	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	15.43	15.50	15.37	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	15.42	15.51	15.37	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	15.45	15.52	15.32	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	15.40	15.51	15.27	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	15.38	15.47	15.31	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	15.43	15.48	15.35	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	15.43	15.50	15.32	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	15.38	15.51	15.32	17.0	0.0	

n48 Ant 7 DS13									
BW (MHz)	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)									
40	PI2 BPSK	1	1	20.86	20.93	20.87			
40	PI2 BPSK	1	53	20.88	20.94	20.91	22.5	0.0	
40	PI2 BPSK	1	104	20.82	20.88	20.90			
40	PI2 BPSK	50	0	20.80	20.91	20.89	22.5	0.0	
40	PI2 BPSK	50	28	20.85	20.89	20.89	22.5	0.0	
40	PI2 BPSK	50	56	20.82	20.94	20.85	22.5	0.0	
40	PI2 BPSK	100	0	20.91	20.93	20.91			
40	QPSK	1	1	20.92	20.95	20.88			
40	QPSK	1	53	20.86	20.92	20.88	22.5	0.0	
40	QPSK	1	104	20.92	20.93	20.91			
40	QPSK	50	0	20.87	20.93	20.88	22.5	0.0	
40	QPSK	50	28	20.91	20.94	20.90	22.5	0.0	
40	QPSK	50	56	20.91	20.88	20.85	22.5	0.0	
40	QPSK	100	0	20.84	20.93	20.88			
40	16QAM	1	1	20.80	20.92	20.89	22.5	0.0	
40	64QAM	1	1	20.33	20.41	20.44	22.0	0.5	
40	256QAM	1	1	18.41	18.46	18.45	20.0	2.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.82	20.91	20.78	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.83	20.93	20.79	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.90	20.99	20.85	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.80	20.92	20.78	22.5	0.0	

Par270 n77 Ant 7 DS13											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 600000	Power Middle Ch. / Freq. 660000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
100	PQ2 BPSK	1	1	20.90	20.98	20.93	22.5	0.0			
100	PQ2 BPSK	1	137	20.91	20.97	21.03					
100	PQ2 BPSK	1	271	21.00	21.00	21.02					
100	PQ2 BPSK	135	0	20.54	20.58	20.60	22.0	0.5			
100	PQ2 BPSK	135	69	20.97	20.97	20.94	22.5	0.0			
100	PQ2 BPSK	135	138	20.48	20.65	20.57	22.0	0.5			
100	PQ2 BPSK	270	0	20.52	20.56	20.62	22.5	0.0			
100	QPSK	1	1	21.02	21.10	21.06					
100	QPSK	1	137	20.92	21.01	21.01					
100	QPSK	1	271	20.98	20.97	20.93	21.5	1.0			
100	QPSK	135	0	20.05	20.16	20.11					
100	QPSK	135	69	20.88	21.07	20.93					
100	QPSK	135	138	20.01	20.09	20.05	21.5	1.0			
100	QPSK	270	0	20.07	20.15	20.04	21.5	1.0			
100	16QAM	1	1	20.01	20.07	20.09					
100	64QAM	1	1	18.49	18.64	18.61	20.0	2.5			
100	256QAM	1	1	16.51	16.63	16.54	18.0	4.5			
Channel											
Frequency (MHz)											
90	QPSK	1	123	20.99	21.04	20.93	22.5	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	109	20.94	20.97	21.01	22.5	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	81	20.90	20.99	21.03	22.5	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	67	20.92	21.06	21.03	22.5	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	53	20.89	21.00	20.95	22.5	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	26	21.00	20.97	21.01	22.5	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	19	20.91	21.04	21.00	22.5	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	12	20.92	21.08	20.96	22.5	0.0			

Par270 n77 HPUE Ant 7 DS13											
BW [MHz]	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	PQ2 BPSK	1	1	23.88	23.95	23.89	25.5	0.0			
100	PQ2 BPSK	1	137	23.85	23.96	24.03					
100	PQ2 BPSK	1	271	24.00	24.02	24.04					
100	PQ2 BPSK	135	0	23.59	23.61	23.60	25.0	0.5			
100	PQ2 BPSK	135	69	23.98	24.03	23.92	25.5	0.0			
100	PQ2 BPSK	135	138	23.48	23.70	23.55	25.0	0.5			
100	PQ2 BPSK	270	0	23.49	23.58	23.61	25.5	0.0			
100	QPSK	1	1	24.03	24.12	24.06					
100	QPSK	1	137	23.95	23.95	24.04					
100	QPSK	1	271	23.97	23.93	23.93	24.5	1.0			
100	QPSK	135	0	23.05	23.10	23.05					
100	QPSK	135	69	23.84	24.04	23.94					
100	QPSK	135	138	23.01	23.08	23.04	24.5	1.0			
100	QPSK	270	0	23.05	23.10	23.04	24.5	1.0			
100	16QAM	1	1	22.97	23.13	23.12					
100	64QAM	1	1	21.46	21.66	21.61	23.0	2.5			
100	256QAM	1	1	19.51	19.52	19.54	21.0	4.5			
Channel											
Frequency (MHz)											
90	QPSK	1	123	24.00	24.05	23.90	25.5	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	109	23.96	24.02	23.93	25.5	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	81	23.90	23.99	23.92	25.5	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	67	24.05	24.02	23.97	25.5	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	53	24.03	24.09	23.88	25.5	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	26	24.03	24.06	23.96	25.5	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	19	24.00	24.04	23.82	25.5	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	12	24.02	24.01	23.94	25.5	0.0			

Part27Q n77 Ant 7 DSI3									
BW [MHz]	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	PQ2 BPSK	1	1		2122		22.5	0.0	
100	PQ2 BPSK	1	137						
100	PQ2 BPSK	1	271		2120				
100	PQ2 BPSK	135	0		2077		22.0	0.5	
100	PQ2 BPSK	135	69		2116		22.5	0.0	
100	PQ2 BPSK	135	138				22.0	0.5	
100	PQ2 BPSK	270	0		2081				
100	QPSK	1	1		2133				
100	QPSK	1	137		2125		22.5	0.0	
100	QPSK	1	271		2113				
100	QPSK	135	0		2041				
100	QPSK	135	69		2124		22.5	0.0	
100	QPSK	135	138		2028		21.5	1.0	
100	QPSK	270	0		2041				
100	16QAM	1	1		2024				
100	64QAM	1	1		1883		20.0	2.5	
100	256QAM	1	1		1678		18.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	630000	633334	634002	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	631968	633334	635002	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	631734	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	631500	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	631212	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	631024	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	631212	633334	635000	Tune-up limit (dBm)	MPR (dB)	

Part27Q n77 HPUE Ant 7 DS13									
BW [MHz]	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)				630000	633334	636668			
100	PI2 BPSK	1	1	24.21			25.5	0.0	
100	PI2 BPSK	1	137	24.19					
100	PI2 BPSK	1	271	24.24					
100	PI2 BPSK	135	0	23.83			25.0	0.5	
100	PI2 BPSK	135	69	24.20			25.5	0.0	
100	PI2 BPSK	135	138	23.85			25.0	0.5	
100	PI2 BPSK	270	0	23.79			25.0	0.5	
100	QPSK	1	1	24.31			25.5	0.0	
100	QPSK	1	137	24.19					
100	QPSK	1	271	24.14					
100	QPSK	135	0	23.38			24.5	1.0	
100	QPSK	135	69	24.19			25.5	0.0	
100	QPSK	135	138	23.24			24.5	1.0	
100	QPSK	270	0	23.57			24.5	1.0	
100	16QAM	1	1	23.28			24.5	1.0	
100	64QAM	1	1	21.81			23.0	2.5	
100	256QAM	1	1	19.72			21.0	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	24.16	24.26	24.13	25.5	0.0	
Channel				636668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495.02	3500.01	3510.02			
80	QPSK	1	109	24.15	24.19	24.24	25.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495.02	3500.01	3520.02			
60	QPSK	1	81	24.22	24.17	24.19	25.5	0.0	
Channel				637668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
50	QPSK	1	67	24.22	24.20	24.22	25.5	0.0	
Channel				637668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	24.17	24.21	24.19	25.5	0.0	
Channel				636668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3460			
20	QPSK	1	26	24.23	24.26	24.18	25.5	0.0	
Channel				630000	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	24.21	24.25	24.24	25.5	0.0	
Channel				635334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3458.01	3500.01	3545.01			
10	QPSK	1	12	24.16	24.20	24.13	25.5	0.0	

Part270 n78 Ant 7 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	20.94	20.84		22.5	0.0	
100	PI2 BPSK	1	137	20.84					
100	PI2 BPSK	1	271	20.92					
100	PI2 BPSK	135	0	20.82	20.84		22.0	0.5	
100	PI2 BPSK	135	69	20.84			22.5	0.0	
100	PI2 BPSK	135	138	20.55			22.0	0.5	
100	PI2 BPSK	270	0	20.57			22.0	0.5	
100	QPSK	1	1	21.03	20.92		22.5	0.0	
100	QPSK	1	137	20.98					
100	QPSK	1	271	20.80					
100	QPSK	135	0	20.16	20.16		21.5	1.0	
100	QPSK	135	69	20.94			22.5	0.0	
100	QPSK	135	138	19.92			21.5	1.0	
100	QPSK	270	0	20.16	20.16		21.5	1.0	
100	16QAM	1	1	20.00			20.0	2.5	
100	64QAM	1	1	18.49			20.0	2.5	
100	256QAM	1	1	16.46			18.0	4.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	123	20.91	20.85	20.82	22.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	20.88	20.88	20.84	22.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	20.89	20.89	20.89	22.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	20.94	20.93	20.91	22.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	20.90	20.84	20.85	22.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	20.92	20.94	20.90	22.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	20.92	20.89	20.89	22.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	20.94	20.87	20.89	22.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	20.94	20.86	20.91	22.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	20.95	20.93	20.95	22.5	0.0	

Part27O n78 HPUE Ant 7 DS13									
BW [MHz]	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	23.91			25.5	0.0	
100	Pi2 BPSK	1	137	23.77					
100	Pi2 BPSK	1	271	23.91					
100	Pi2 BPSK	135	0	23.49			25.0	0.5	
100	Pi2 BPSK	135	69	23.73			25.5	0.0	
100	Pi2 BPSK	135	138	23.46			25.0	0.5	
100	Pi2 BPSK	270	0	23.47			25.0	0.5	
100	QPSK	1	1	23.97			25.5	0.0	
100	QPSK	1	137	23.92					
100	QPSK	1	271	23.71					
100	QPSK	135	0	23.07			24.5	1.0	
100	QPSK	135	69	23.87			25.5	0.0	
100	QPSK	135	138	22.84			24.5	1.0	
100	QPSK	270	0	23.08			24.5	1.0	
100	16QAM	1	1	22.99			23.5	2.5	
100	64QAM	1	1	21.45			23.5	2.5	
100	256QAM	1	1	19.46			21.0	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
100	QPSK	1	123	23.93	23.91	23.95	25.5	0.0	
Channel				650334	650666	650998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3746.01	3750	3760.02			
100	QPSK	1	109	23.88	23.91	23.89	25.5	0.0	
Channel				650998	651330	651662	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3747.02	3750	3760.05			
100	QPSK	1	95	23.86	23.93	23.77	25.5	0.0	
Channel				649668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3746.02	3750	3760.01			
100	QPSK	1	81	23.91	23.93	23.81	25.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3726.01	3750	3775.02			
50	QPSK	1	67	23.84	23.91	23.80	25.5	0.0	
Channel				650000	650332	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	23.84	23.91	23.84	25.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	23.86	23.94	23.87	25.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	23.84	23.96	23.82	25.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	23.83	23.94	23.83	25.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	23.84	23.90	23.88	25.5	0.0	

Part27Q 78 Ant 7 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	
				633334	3500.01		
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	21.20			
100	PQ2 BPSK	1	137	21.15		22.5	0.0
100	PQ2 BPSK	1	271	21.24			
100	PQ2 BPSK	135	0	20.78		22.5	0.5
100	PQ2 BPSK	135	69	21.16		22.5	0.0
100	PQ2 BPSK	135	138	20.84		22.0	0.5
100	PQ2 BPSK	270	0	20.89			
100	QPSK	1	1	21.35			
100	QPSK	1	137	21.30		22.5	0.0
100	QPSK	1	271	21.14			
100	QPSK	135	0	20.48		21.5	1.0
100	QPSK	135	69	21.29		22.5	0.0
100	QPSK	135	138	20.20		21.5	1.0
100	QPSK	270	0	20.45			
100	16QAM	1	1	20.32		21.5	1.0
100	64QAM	1	1	18.76		20.0	2.5
100	256QAM	1	1	18.73		18.0	4.5
Channel							
				633334	353334	633668	
Frequency (MHz)							
90	QPSK	1	123	3485	3500.01	3505.02	
				21.16	21.20	21.09	22.5 0.0
Channel							
				633068	633334	634000	
Frequency (MHz)							
80	QPSK	1	109	3480.02	3500.01	3510	
				21.18	21.19	21.14	22.5 0.0
Channel							
				632334	633334	634334	
Frequency (MHz)							
70	QPSK	1	96	3485.01	3500.01	3515.01	
				21.21	21.10	21.07	22.5 0.0
Channel							
				632000	633334	634668	
Frequency (MHz)							
60	QPSK	1	81	3480	3500.01	3520.02	
				21.18	21.10	21.16	22.5 0.0
Channel							
				631668	633334	635000	
Frequency (MHz)							
50	QPSK	1	67	3475.02	3500.01	3525	
				21.17	21.12	21.16	22.5 0.0
Channel							
				631334	633334	635334	
Frequency (MHz)							
40	QPSK	1	53	3470.01	3500.01	3530.01	
				21.24	21.16	21.11	22.5 0.0
Channel							
				631000	633334	635668	
Frequency (MHz)							
30	QPSK	1	39	3465	3500.01	3535.02	
				21.24	21.10	21.08	22.5 0.0
Channel							
				630500	633334	635900	
Frequency (MHz)							
20	QPSK	1	25	3460.02	3500.01	3540	
				21.26	21.12	21.10	22.5 0.0
Channel							
				630000	633334	636168	
Frequency (MHz)							
15	QPSK	1	19	3457.5	3500.01	3542.92	
				21.15	21.09	21.14	22.5 0.0
Channel							
				630334	633334	636334	
Frequency (MHz)							
10	QPSK	1	12	3452.01	3500.01	3543.01	
				21.26	21.10	21.13	22.5 0.0

Part27Q 78 HPUE Ant 7 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	
				633334	3500.01		
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	24.19			
100	PQ2 BPSK	1	137	24.16		25.5	0.0
100	PQ2 BPSK	1	271	24.22			
100	PQ2 BPSK	135	0	23.79		25.0	0.5
100	PQ2 BPSK	135	69	24.18		25.5	0.0
100	PQ2 BPSK	135	138	23.78		25.0	0.5
100	PQ2 BPSK	270	0	23.89			
100	QPSK	1	1	24.39			
100	QPSK	1	137	24.34		25.5	0.0
100	QPSK	1	271	24.17			
100	QPSK	135	0	23.48		24.5	1.0
100	QPSK	135	69	24.25		25.5	0.0
100	QPSK	135	138	23.15		24.5	1.0
100	QPSK	270	0	23.45			
100	16QAM	1	1	23.27		24.5	1.0
100	64QAM	1	1	21.71		23.0	2.5
100	256QAM	1	1	19.73		21.0	4.5
Channel							
				633334	353334	633668	
Frequency (MHz)							
90	QPSK	1	123	24.15	24.20	24.05	25.5 0.0
Channel							
				632668	633334	634000	
Frequency (MHz)							
80	QPSK	1	109	24.15	24.17	24.14	25.5 0.0
Channel							
				632334	633334	634334	
Frequency (MHz)							
70	QPSK	1	96	24.10	24.15	24.05	25.5 0.0
Channel							
				632000	633334	634668	
Frequency (MHz)							
60	QPSK	1	81	24.18	24.16	24.15	25.5 0.0
Channel							
				631668	633334	635000	
Frequency (MHz)							
50	QPSK	1	67	24.20	24.26	24.14	25.5 0.0
Channel							
				631334	633334	635334	
Frequency (MHz)							
40	QPSK	1	53	24.16	24.17	24.08	25.5 0.0
Channel							
				631000	633334	635668	
Frequency (MHz)							
30	QPSK	1	39	24.10	24.22	24.09	25.5 0.0
Channel							
				630500	633334	635900	
Frequency (MHz)							
20	QPSK	1	25	24.21	24.19	24.10	25.5 0.0
Channel							
				630000	633334	636168	
Frequency (MHz)							
15	QPSK	1	19	24.18	24.15	24.12	25.5 0.0
Channel							
				630334	633334	636334	
Frequency (MHz)							
10	QPSK	1	12	24.12	24.20	24.07	25.5 0.0

n2 Ant 1 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq 372000	Power Middle Ch / Freq 376000	Power High Ch / Freq 380000	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900	20.5	0.0	
Frequency (MHz)									
20	PI2 BPSK	1	1	18.89	19.05	18.97			
20	PI2 BPSK	1	53	18.96	19.05	18.98			
20	PI2 BPSK	1	104	18.96	19.01	18.97	20.5	0.0	
20	PI2 BPSK	50	0	18.94	19.07	19.01			
20	PI2 BPSK	50	28	18.92	19.01	18.94			
20	PI2 BPSK	50	56	18.97	19.06	18.93			
20	PI2 BPSK	100	0	18.98	19.02	18.91	20.5	0.0	
20	QPSK	1	1	18.98	19.09	18.98			
20	QPSK	1	53	18.87	19.06	18.94			
20	QPSK	1	104	18.88	19.02	18.97			
20	QPSK	50	0	18.91	19.06	18.97	20.5	0.0	
20	QPSK	50	28	18.90	19.06	18.95			
20	QPSK	50	56	18.97	19.04	18.95			
20	QPSK	100	0	18.94	19.01	18.90			
20	16QAM	1	1	18.93	19.07	18.90	20.5	0.0	
20	64QAM	1	1	18.97	19.02	19.01			
20	256QAM	1	1	18.90	19.03	18.97			
Channel				1875.5	1890	1902.5			
Frequency (MHz)				1867.5	1880	1902.5			
15	QPSK	1	1	18.91	19.07	18.86	20.5	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1855	1860	1900			
10	QPSK	1	1	18.86	19.01	18.94	20.5	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	18.91	18.97	18.92	20.5	0.0	

Reduced Power Mode for Main PA DSI4											
n5 Ant 1 DSI 4											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				834	836.5	839	24.7	0.0			
Frequency (MHz)											
20	PI2 BPSK	1	1	23.19	23.27	23.16					
20	PI2 BPSK	1	53	23.34	23.50	23.36					
20	PI2 BPSK	1	104	23.34	23.44	23.28	24.7	0.0			
20	PI2 BPSK	50	0	23.48	23.55	23.48					
20	PI2 BPSK	50	28	23.36	23.42	23.29					
20	PI2 BPSK	50	56	23.50	23.53	23.46					
20	PI2 BPSK	100	0	23.53	23.56	23.48	24.7	0.0			
20	QPSK	1	1	23.52	23.59	23.50					
20	QPSK	1	53	23.38	23.38	23.35					
20	QPSK	1	104	23.36	23.33	23.33					
20	QPSK	50	0	23.48	23.55	23.54	24.7	0.0			
20	QPSK	50	28	23.44	23.52	23.54					
20	QPSK	50	56	23.06	23.11	23.09					
20	QPSK	100	0	23.55	23.58	23.52					
20	16QAM	1	1	23.10	23.22	23.18	24.7	0.0			
20	64QAM	1	1	21.70	21.81	21.77					
20	256QAM	1	1	20.31	20.42	20.36					
Channel				165300	167300	169300					
Frequency (MHz)				831.5	836.5	841.5	Tune-up limit (dBm)				
15	QPSK	1	1	23.51	23.54	23.40	24.7	0.0			
Channel				165800	167300	168800	Tune-up limit (dBm)				
Frequency (MHz)				820	836.5	844	MPR (dB)				
10	QPSK	1	1	23.47	23.53	23.45	24.7	0.0			
Channel				165300	167300	169300	Tune-up limit (dBm)				
Frequency (MHz)				826.5	836.5	846.5	MPR (dB)				
5	QPSK	1	1	23.44	23.53	23.42	24.7	0.0			

n7 Ant 1 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000	20.5	0.0	
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	19.02	18.98	18.98	20.5	0.0	
50	PI2 BPSK	1	135	18.98	19.01	19.00			
50	PI2 BPSK	1	268	19.00	19.03	18.92			
50	PI2 BPSK	135	0	19.04	19.04	19.00			
50	PI2 BPSK	135	68	19.01	18.98	18.98	20.5	0.0	
50	PI2 BPSK	135	135	18.98	19.05	18.98			
50	PI2 BPSK	270	0	18.99	19.02	18.99			
50	QPSK	1	1	18.94	19.02	18.91			
50	QPSK	1	135	18.98	19.04	18.90	20.5	0.0	
50	QPSK	1	268	19.05	19.06	18.89			
50	QPSK	135	0	19.01	19.00	18.92			
50	QPSK	135	68	19.01	18.99	18.95			
50	QPSK	135	135	19.02	19.03	18.97	20.5	0.0	
50	QPSK	270	0	18.95	19.00	18.90			
50	16QAM	1	1	18.95	18.98	18.98			
50	64QAM	1	1	18.97	18.99	18.98			
50	256QAM	1	1	19.04	19.03	19.00	20.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)		
Frequency (MHz)				2520	2535	2550	MPR (dB)		
40	QPSK	1	1	19.04	19.05	18.79	20.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)		
Frequency (MHz)				2535	2535	2535	MPR (dB)		
30	QPSK	1	1	19.04	19.04	18.87	20.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)		
Frequency (MHz)				2512.5	2535	2557.5 <td colspan="3">MPR (dB)</td>	MPR (dB)		
25	QPSK	1	1	18.94	19.03	18.87	20.5	0.0	
Channel				502800	507000	512200	Tune-up limit (dBm)		
Frequency (MHz)				2510	2535	2560	MPR (dB)		
20	QPSK	1	1	18.93	18.96	18.78	20.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)		
Frequency (MHz)				2507.5	2535	2562.5	MPR (dB)		
15	QPSK	1	1	18.98	18.94	18.80	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)		
Frequency (MHz)				2505	2535	2565	MPR (dB)		
10	QPSK	1	1	19.04	18.95	18.88	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)		
Frequency (MHz)				2502.5	2535	2567.5	MPR (dB)		
5	QPSK	1	1	18.98	19.01	18.87	20.5	0.0	

n66 Ant 1 DSI 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000	21.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	19.11	19.12	19.09	21.0	0.0
40	PI/2 BPSK	1	108	19.19	19.11	19.04		
40	PI/2 BPSK	1	214	19.10	19.19	19.03		
40	PI/2 BPSK	108	0	19.11	19.18	19.04	21.0	0.0
40	PI/2 BPSK	108	54	19.18	19.20	19.08	21.0	0.0
40	PI/2 BPSK	108	108	19.11	19.12	19.11	21.0	0.0
40	PI/2 BPSK	216	0	19.13	19.11	19.10	21.0	0.0
40	QPSK	1	1	19.20	19.24	19.29	21.0	0.0
40	QPSK	1	108	19.21	19.22	19.23		
40	QPSK	1	214	19.25	19.29	19.23		
40	QPSK	108	0	19.28	19.23	19.20	21.0	0.0
40	QPSK	108	54	19.21	19.27	19.15	21.0	0.0
40	QPSK	108	108	19.15	19.26	19.26	21.0	0.0
40	QPSK	216	0	19.21	19.23	19.15	21.0	0.0
40	16QAM	1	1	19.11	19.10	19.11	21.0	0.0
40	64QAM	1	1	19.17	19.13	19.13	21.0	0.0
40	256QAM	1	1	19.16	19.18	19.07	21.0	0.0
Channel				345000	349000	353000	21.0	0.0
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	19.17	19.23	19.20	21.0	0.0
Channel				344500	349000	353500	21.0	0.0
Frequency (MHz)				1722.5	1745	1747.5		
25	QPSK	1	1	19.25	19.24	19.23	21.0	0.0
Channel				344000	349000	354000	21.0	0.0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	19.28	19.28	19.15	21.0	0.0
Channel				343500	349000	354500	21.0	0.0
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	19.19	19.24	19.21	21.0	0.0
Channel				343000	349000	355000	21.0	0.0
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	19.24	19.21	19.18	21.0	0.0
Channel				342500	349000	355500	21.0	0.0
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	19.23	19.22	19.26	21.0	0.0

n7 Ant 3 DSI 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	21.5	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	20.69	20.74	20.68	21.5	0.0
50	PI/2 BPSK	1	135	20.75	20.75	20.70		
50	PI/2 BPSK	1	268	20.72	20.82	20.67	21.5	0.0
50	PI/2 BPSK	135	0	20.70	20.74	20.68		
50	PI/2 BPSK	135	68	20.71	20.82	20.67	21.5	0.0
50	PI/2 BPSK	135	135	20.78	20.72	20.67		
50	PI/2 BPSK	270	0	20.76	20.79	20.65	21.5	0.0
50	QPSK	1	1	20.68	20.80	20.71		
50	QPSK	1	135	20.76	20.78	20.60	21.5	0.0
50	QPSK	1	268	20.80	20.85	20.74		
50	QPSK	135	0	20.71	20.78	20.68	21.5	0.0
50	QPSK	135	68	20.70	20.82	20.71		
50	QPSK	135	135	20.77	20.80	20.68	21.5	0.0
50	QPSK	270	0	20.75	20.79	20.64		
50	16QAM	1	1	20.72	20.72	20.70	21.5	0.0
50	64QAM	1	1	20.71	20.75	20.69		
50	256QAM	1	1	19.24	19.31	19.22	20.0	1.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	20.75	20.76	20.60	21.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	20.75	20.76	20.66	21.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	20.73	20.83	20.69	21.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	20.77	20.79	20.68	21.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	20.77	20.79	20.63	21.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	20.69	20.82	20.72	21.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	20.77	20.80	20.71	21.5	0.0

n2 Ant 4 DSI 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	18.5	0.0
Frequency (MHz)				1860	1880	1900		
20	PV2 BPSK	1	1	16.99	17.06	16.91	18.5	0.0
20	PV2 BPSK	1	53	16.91	17.05	16.84		
20	PV2 BPSK	1	104	16.93	16.99	16.92		
20	PV2 BPSK	50	0	16.94	17.05	16.85	18.5	0.0
20	PV2 BPSK	50	28	16.95	17.08	16.87	18.5	0.0
20	PV2 BPSK	50	56	16.87	17.06	16.89	18.5	0.0
20	PV2 BPSK	100	0	16.90	17.00	16.95	18.5	0.0
20	QPSK	1	1	16.99	17.10	16.96		
20	QPSK	1	53	16.93	17.09	16.87		
20	QPSK	1	104	16.90	17.01	16.89	18.5	0.0
20	QPSK	50	0	16.91	17.03	16.90		
20	QPSK	50	28	16.88	17.06	16.87		
20	QPSK	50	56	16.97	16.99	16.85	18.5	0.0
20	QPSK	100	0	16.92	17.04	16.85	18.5	0.0
20	16QAM	1	1	16.91	17.00	16.91		
20	64QAM	1	1	16.99	17.01	16.86		
20	256QAM	1	1	16.97	16.99	16.85	18.5	0.0
Channel				371500	376000	380500	18.5	0.0
Frequency (MHz)				1867.5	1880	1902.5		
15	QPSK	1	1	16.91	16.99	16.91	18.5	0.0
Channel				371000	376000	381000	18.5	0.0
Frequency (MHz)				1865	1890	1905		
10	QPSK	1	1	16.89	17.00	16.95	18.5	0.0
Channel				375500	376000	381500	18.5	0.0
Frequency (MHz)				1862.5	1880	1907.5		
5	QPSK	1	1	16.91	17.00	16.92	18.5	0.0

n5 Ant 4 DSI 4

BW [MHz]	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	167500	167900	24.7	0.0
Frequency (MHz)				834	836.5	839		
20	PV2 BPSK	1	1	23.46	23.53	23.48	24.7	0.0
20	PV2 BPSK	1	53	23.44	23.58	23.44		
20	PV2 BPSK	1	104	23.51	23.57	23.42		
20	PV2 BPSK	50	0	23.46	23.55	23.43	24.7	0.0
20	PV2 BPSK	50	28	23.46	23.49	23.44	24.7	0.0
20	PV2 BPSK	50	56	23.48	23.51	23.40	24.7	0.0
20	PV2 BPSK	100	0	23.48	23.52	23.38	24.7	0.0
20	QPSK	1	1	23.57	23.61	23.51		
20	QPSK	1	53	23.48	23.51	23.39		
20	QPSK	1	104	23.43	23.54	23.41	24.7	0.0
20	QPSK	50	0	23.51	23.53	23.39		
20	QPSK	50	28	23.44	23.58	23.46		
20	QPSK	50	56	23.55	23.56	23.46	24.7	0.0
20	QPSK	100	0	23.54	23.54	23.46	24.7	0.0
20	16QAM	1	1	23.50	23.51	23.39		
20	64QAM	1	1	22.04	22.06	21.97		
20	256QAM	1	1	20.06	20.13	20.05	21.2	3.5
Channel				165300	167000	168500	24.7	0.0
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.46	23.55	23.41	24.7	0.0
Channel				166800	167300	168800	24.7	0.0
Frequency (MHz)				820	836.5	844		
10	QPSK	1	1	23.52	23.57	23.42	24.7	0.0
Channel				165300	167300	169300	24.7	0.0
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.47	23.56	23.40	24.7	0.0

n7 Ant 4 DSI 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509200	507000	509800	19.0	0.0
Frequency (MHz)				2525	2535	2545		
50	PV2 BPSK	1	1	17.48	17.47	17.46	19.0	0.0
50	PV2 BPSK	1	135	17.51	17.51	17.43		
50	PV2 BPSK	1	268	17.53	17.52	17.40		
50	PV2 BPSK	135	0	17.48	17.52	17.50	19.0	0.0
50	PV2 BPSK	135	68	17.49	17.54	17.47	19.0	0.0
50	PV2 BPSK	135	135	17.46	17.54	17.50	19.0	0.0
50	PV2 BPSK	270	0	17.47	17.53	17.48	19.0	0.0
50	QPSK	1	1	17.42	17.52	17.46		
50	QPSK	1	135	17.49	17.53	17.49		
50	QPSK	1	268	17.51	17.58	17.50	19.0	0.0
50	QPSK	135	0	17.49	17.48	17.44		
50	QPSK	135	68	17.50	17.51	17.48		
50	QPSK	135	135	17.48	17.50	17.44	19.0	0.0
50	QPSK	270	0	17.47	17.54	17.43	19.0	0.0
50	16QAM	1	1	17.43	17.52	17.47		
50	64QAM	1	1	17.46	17.50	17.43		
50	256QAM	1	1	17.52	17.47	17.45	19.0	0.0
Channel				509200	507000	510000	19.0	0.0
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	17.49	17.57	17.47	19.0	0.0
Channel				503000	507000	511000	19.0	0.0
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	17.49	17.54	17.39	19.0	0.0
Channel				502500	507000	511500	19.0	0.0
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	17.40	17.57	17.45	19.0	0.0
Channel				502000	507000	512000	19.0	0.0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	17.49	17.51	17.38	19.0	0.0
Channel				501500	507000	512500	19.0	0.0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	17.42	17.55	17.41	19.0	0.0
Channel				501000	507000	513000	19.0	0.0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	17.48	17.54	17.44	19.0	0.0
Channel				500500	507000	513500	19.0	0.0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	17.45	17.57	17.39	19.0	0.0

n38 Ant 1 DSI 4									
BW [MHz]	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	21.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.38	19.39	19.29	21.0	0.0	
40	PI/2 BPSK	1	53	19.38	19.34	19.30			
40	PI/2 BPSK	1	104	19.31	19.38	19.31	21.0	0.0	
40	PI/2 BPSK	50	0	19.36	19.34	19.23			
40	PI/2 BPSK	50	28	19.39	19.38	19.28	21.0	0.0	
40	PI/2 BPSK	50	56	19.28	19.28	19.24			
40	PI/2 BPSK	100	0	19.29	19.38	19.28	21.0	0.0	
40	QPSK	1	1	19.44	19.49	19.40			
40	QPSK	1	53	19.31	19.46	19.36	21.0	0.0	
40	QPSK	1	104	19.41	19.41	19.29			
40	QPSK	50	0	19.36	19.29	19.23	21.0	0.0	
40	QPSK	50	28	19.37	19.45	19.37			
40	QPSK	50	56	19.34	19.30	19.30	21.0	0.0	
40	QPSK	100	0	19.41	19.42	19.35			
40	16QAM	1	1	19.28	19.28	19.31	21.0	0.0	
40	64QAM	1	1	19.29	19.32	19.31			
40	256QAM	1	1	18.95	18.92	18.88	20.5	0.5	
Channel				517002	519000	520998	21.0	0.0	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.37	19.45	19.32	21.0	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2582.52	2595	2607.48	21.0	0.0	
25	QPSK	1	1	19.30	19.41	19.32		0.0	
Channel				516000	519000	522000	21.0	0.0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.34	19.44	19.30	21.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49	21.0	0.0	
15	QPSK	1	1	19.41	19.47	19.35		0.0	
Channel				515004	519000	522996	21.0	0.0	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.41	19.39	19.27	21.0	0.0	

n41 Ant 1 DSI 4									
BW [MHz]	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	21.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.43	19.49	19.32	21.0	0.0	
100	PI/2 BPSK	1	137	19.47	19.44	19.37			
100	PI/2 BPSK	1	271	19.36	19.46	19.33	21.0	0.0	
100	PI/2 BPSK	135	0	19.38	19.43	19.26			
100	PI/2 BPSK	135	69	19.44	19.38	19.35	21.0	0.0	
100	PI/2 BPSK	135	138	19.38	19.34	19.33			
100	PI/2 BPSK	270	0	19.31	19.46	19.28	21.0	0.0	
100	QPSK	1	1	19.50	19.55	19.48			
100	QPSK	1	137	19.31	19.50	19.42	21.0	0.0	
100	QPSK	1	271	19.47	19.47	19.33			
100	QPSK	135	0	19.36	19.30	19.32	21.0	0.0	
100	QPSK	135	69	19.47	19.54	19.47			
100	QPSK	135	138	19.41	19.36	19.37	21.0	0.0	
100	QPSK	270	0	19.51	19.52	19.37			
100	16QAM	1	1	19.33	19.38	19.33	21.0	0.0	
100	64QAM	1	1	19.33	19.41	19.37			
100	256QAM	1	1	18.95	18.97	18.90	20.5	0.5	
Channel				508200	518598	528996	21.0	0.0	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.37	19.49	19.39	21.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99	21.0	0.0	
80	QPSK	1	1	19.43	19.42	19.37		0.0	
Channel				505200	518598	531996	21.0	0.0	
Frequency (MHz)				2536	2592.99	2639.98			
60	QPSK	1	1	19.38	19.48	19.45	21.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99	21.0	0.0	
50	QPSK	1	1	19.38	19.46	19.43		0.0	
Channel				503202	518598	534000	21.0	0.0	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.40	19.42	19.34	21.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98	21.0	0.0	
30	QPSK	1	1	19.41	19.44	19.37		0.0	
Channel				501204	518598	535998	21.0	0.0	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.47	19.43	19.42	21.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48	21.0	0.0	
15	QPSK	1	1	19.46	19.53	19.40		0.0	
Channel				500202	518598	537000	21.0	0.0	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	19.48	19.51	19.40	21.0	0.0	

n48 Ant 2 DSI 4

BW [MHz]	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)								
40	PV2 BPSK	1	1	18.15	18.16	18.13	19.5	0.0
40	PV2 BPSK	1	53	18.14	18.22	18.13		
40	PV2 BPSK	1	104	18.13	18.21	18.18		
40	PV2 BPSK	50	0	18.16	18.20	18.17	19.5	0.0
40	PV2 BPSK	50	28	18.15	18.18	18.14	19.5	0.0
40	PV2 BPSK	50	58	18.12	18.22	18.19	19.5	0.0
40	PV2 BPSK	100	0	18.18	18.18	18.15	19.5	0.0
40	QPSK	1	1	18.19	18.26	18.22		
40	QPSK	1	53	18.17	18.19	18.11		
40	QPSK	1	104	18.19	18.21	18.15	18.5	1.0
40	QPSK	50	0	18.22	18.23	18.20		
40	QPSK	50	28	18.16	18.24	18.19		
40	QPSK	50	58	18.20	18.22	18.20	18.5	1.0
40	QPSK	100	0	18.20	18.27	18.15		
40	16QAM	1	1	18.22	18.16	18.14		
40	64QAM	1	1	16.73	16.73	16.69	18.0	1.5
40	256QAM	1	1	14.63	14.73	14.68	16.0	3.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.19	18.20	18.13	19.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.12	18.17	18.20	19.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.16	18.19	18.11	19.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.17	18.16	18.12	19.5	0.0

Par270 n77 PC2&3 Ant 2 DSI 4

BW [MHz]	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	PV2 BPSK	1	1	17.44	17.55	17.49	19.0	0.0
100	PV2 BPSK	1	137	17.43	17.49	17.42		
100	PV2 BPSK	1	271	17.46	17.50	17.42		
100	PV2 BPSK	135	0	17.43	17.53	17.49	19.0	0.0
100	PV2 BPSK	135	69	17.48	17.55	17.52	19.0	0.0
100	PV2 BPSK	135	138	17.42	17.53	17.43	19.0	0.0
100	PV2 BPSK	270	0	17.39	17.52	17.43	19.0	0.0
100	QPSK	1	1	17.46	17.56	17.46		
100	QPSK	1	137	17.42	17.52	17.48		
100	QPSK	1	271	17.45	17.51	17.45	18.0	1.0
100	QPSK	135	0	17.45	17.52	17.44		
100	QPSK	135	69	17.46	17.55	17.45		
100	QPSK	135	138	17.45	17.53	17.46	18.0	1.0
100	QPSK	270	0	17.41	17.53	17.44		
100	16QAM	1	1	17.49	17.52	17.47	19.0	0.0
100	64QAM	1	1	17.44	17.49	17.47	19.0	0.0
100	256QAM	1	1	16.51	16.45	16.37	18.0	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	123	17.42	17.54	17.38	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	17.40	17.52	17.37	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	17.38	17.50	17.44	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	17.37	17.52	17.43	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	17.44	17.54	17.35	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	17.43	17.55	17.44	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	17.37	17.54	17.42	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	17.47	17.53	17.36	19.0	0.0

Par270Q n77 PC2&3 Ant 2 DSI 4

BW [MHz]	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	PV2 BPSK	1	1			17.69	19.0	0.0
100	PV2 BPSK	1	137			17.71		
100	PV2 BPSK	1	271			17.65		
100	PV2 BPSK	135	0			17.67	19.0	0.0
100	PV2 BPSK	135	69			17.67	19.0	0.0
100	PV2 BPSK	135	138			17.68	19.0	0.0
100	PV2 BPSK	270	0			17.65	19.0	0.0
100	QPSK	1	1			17.74		
100	QPSK	1	137			17.71		
100	QPSK	1	271			17.63	18.0	1.0
100	QPSK	135	0			17.65		
100	QPSK	135	69			17.73		
100	QPSK	135	138			17.63	18.0	1.0
100	QPSK	270	0			17.72		
100	16QAM	1	1			17.71	19.0	0.0
100	64QAM	1	1			17.72	19.0	0.0
100	256QAM	1	1			16.73	18.0	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	123			17.39	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109			17.41	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81			17.43	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67			17.42	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53			17.46	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26			17.44	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19			17.37	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12			17.47	19.0	0.0

Par27O n78 PC2&3 Ant 2 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				850000	850000	850000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		18.03		19.5	0.0	
100	PI2 BPSK	1	137		18.15				
100	PI2 BPSK	1	271		18.02				
100	PI2 BPSK	135	0		18.08				
100	PI2 BPSK	135	69		18.03		19.5	0.0	
100	PI2 BPSK	135	138		18.04		19.5	0.0	
100	PI2 BPSK	270	0		18.07		19.5	0.0	
100	QPSK	1	1		18.18				
100	QPSK	1	137		18.10				
100	QPSK	1	271		18.03				
100	QPSK	135	0		18.02		18.5	1.0	
100	QPSK	135	69		18.17		19.5	0.0	
100	QPSK	135	138		18.01		18.5	1.0	
100	QPSK	270	0		18.03		18.5	1.0	
100	16QAM	1	1		18.09		19.5	0.0	
100	64QAM	1	1		18.06		19.5	0.0	
100	256QAM	1	1		17.15		18.0	1.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	123	17.94	17.91	17.82	19.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	17.92	17.97	17.78	19.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	17.94	17.92	17.81	19.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	17.95	17.90	17.81	19.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	17.88	17.90	17.73	19.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	17.92	17.94	17.85	19.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	39	17.87	17.97	17.75	19.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	17.85	17.91	17.73	19.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3792.51			
15	QPSK	1	19	17.88	17.93	17.84	19.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	17.96	17.89	17.81	19.5	0.0	

Par27Q n78 PC2&3 Ant 2 DSI 4									
BW [MHz]	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	633334	633334			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI2 BPSK	1	1		18.07		19.5	0.0	
100	PI2 BPSK	1	137		18.22				
100	PI2 BPSK	1	271		18.16				
100	PI2 BPSK	135	0		18.20				
100	PI2 BPSK	135	69		18.12		19.5	0.0	
100	PI2 BPSK	135	138		18.13		19.5	0.0	
100	PI2 BPSK	270	0		18.16		19.5	0.0	
100	QPSK	1	1		18.26				
100	QPSK	1	137		18.23				
100	QPSK	1	271		18.14				
100	QPSK	135	0		18.13		18.5	1.0	
100	QPSK	135	69		18.20		19.5	0.0	
100	QPSK	135	138		18.08		18.5	1.0	
100	QPSK	270	0		18.13		18.5	1.0	
100	16QAM	1	1		18.19		19.5	0.0	
100	64QAM	1	1		18.17		19.5	0.0	
100	256QAM	1	1		17.27		18.0	1.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	18.04	17.97	17.90	19.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	17.99	17.90	17.91	19.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	95	18.01	17.94	17.84	19.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	18.01	17.96	17.86	19.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	17.97	17.96	17.82	19.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	17.98	18.01	17.86	19.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3533.02			
30	QPSK	1	39	18.02	17.97	17.93	19.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	18.00	17.95	17.93	19.5	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	18.02	17.94	17.85	19.5	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	17.99	18.03	17.91	19.5	0.0	

n38 Ant 3 DSI 4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	
Channel							
Frequency (MHz)							
40	PI2 BPSK	1	1	20.69	20.74	20.64	
40	PI2 BPSK	1	53	20.69	20.68	20.68	21.5
40	PI2 BPSK	1	104	20.67	20.68	20.63	
40	PI2 BPSK	50	0	20.82	20.73	20.62	21.5
40	PI2 BPSK	50	28	20.86	20.76	20.63	21.5
40	PI2 BPSK	50	56	20.70	20.74	20.72	21.5
40	PI2 BPSK	100	0	20.59	20.73	20.63	
40	QPSK	1	1	20.72	20.80	20.74	
40	QPSK	1	53	20.86	20.72	20.70	21.5
40	QPSK	1	104	20.84	20.69	20.70	
40	QPSK	50	0	20.58	20.70	20.65	21.5
40	QPSK	50	28	20.89	20.76	20.61	21.5
40	QPSK	50	56	20.85	20.70	20.68	
40	QPSK	100	0	20.81	20.73	20.71	21.5
40	16QAM	1	1	20.82	20.66	20.67	21.5
40	64QAM	1	1	20.70	20.71	20.69	21.5
40	256QAM	1	1	19.17	19.33	19.21	20.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.69	20.70	20.71	21.5
Channel							
Frequency (MHz)							
25	QPSK	1	1	20.59	20.72	20.68	21.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.69	20.74	20.61	21.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.65	20.70	20.65	21.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.68	20.69	20.70	21.5

n41 Ant 3 DSI 4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	20.76	20.74	20.69	
100	PI2 BPSK	1	137	20.81	20.73	20.68	21.5
100	PI2 BPSK	1	271	20.77	20.75	20.67	
100	PI2 BPSK	135	0	20.71	20.79	20.64	21.5
100	PI2 BPSK	135	69	20.68	20.87	20.65	21.5
100	PI2 BPSK	135	138	20.71	20.77	20.74	21.5
100	PI2 BPSK	270	0	20.63	20.83	20.69	
100	QPSK	1	1	20.74	20.89	20.81	
100	QPSK	1	107	20.74	20.82	20.75	21.5
100	QPSK	1	271	20.68	20.75	20.74	
100	QPSK	135	0	20.59	20.75	20.73	21.5
100	QPSK	135	69	20.81	20.82	20.71	21.5
100	QPSK	135	138	20.73	20.72	20.71	21.5
100	QPSK	270	0	20.64	20.75	20.74	21.5
100	16QAM	1	1	20.68	20.74	20.71	21.5
100	64QAM	1	1	20.71	20.79	20.77	21.5
100	256QAM	1	1	19.28	19.40	19.28	20.0
Channel							
Frequency (MHz)							
90	QPSK	1	123	20.78	20.71	20.80	21.5
Channel							
Frequency (MHz)							
80	QPSK	1	109	20.74	20.77	20.83	21.5
Channel							
Frequency (MHz)							
60	QPSK	1	81	20.69	20.74	20.73	21.5
Channel							
Frequency (MHz)							
50	QPSK	1	67	20.75	20.78	20.76	21.5
Channel							
Frequency (MHz)							
40	QPSK	1	53	20.69	20.81	20.71	21.5
Channel							
Frequency (MHz)							
30	QPSK	1	39	20.75	20.79	20.76	21.5
Channel							
Frequency (MHz)							
20	QPSK	1	26	20.74	20.76	20.80	21.5
Channel							
Frequency (MHz)							
15	QPSK	1	19	20.78	20.75	20.77	21.5
Channel							
Frequency (MHz)							
10	QPSK	1	12	20.74	20.76	20.71	21.5

n48 Ant 3 DSI 4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	
Channel							
Frequency (MHz)							
40	PI2 BPSK	1	1	20.41	20.42	20.43	
40	PI2 BPSK	1	53	20.44	20.47	20.46	22.0
40	PI2 BPSK	1	104	20.35	20.48	20.39	
40	PI2 BPSK	50	0	19.93	20.07	20.00	21.5
40	PI2 BPSK	50	28	20.46	20.44	20.47	22.0
40	PI2 BPSK	50	56	19.97	20.09	20.06	21.5
40	PI2 BPSK	100	0	19.98	20.04	20.07	
40	QPSK	1	1	20.48	20.55	20.52	
40	QPSK	1	53	20.40	20.44	20.48	22.0
40	QPSK	1	104	20.45	20.51	20.47	
40	QPSK	50	0	19.97	20.07	19.97	22.0
40	QPSK	50	28	20.40	20.50	20.46	22.0
40	QPSK	50	56	19.98	20.06	20.05	22.0
40	QPSK	100	0	19.93	20.05	19.96	
40	16QAM	1	1	19.95	20.06	20.02	21.0
40	64QAM	1	1	17.98	18.10	18.05	19.5
40	256QAM	1	1	15.98	16.11	16.00	17.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.36	20.51	20.48	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.41	20.48	20.43	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.43	20.47	20.41	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.41	20.48	20.39	22.0



Par270 n77 Ant 3 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	18.42	18.47	18.41		20.0	0.0
100	PI2 BPSK	1	137	18.44	18.53	18.48			
100	PI2 BPSK	1	271	18.47	18.51	18.44			
100	PI2 BPSK	135	0	18.10	18.08	18.00	19.5	19.5	0.5
100	PI2 BPSK	135	69	18.47	18.50	18.42	20.0		
100	PI2 BPSK	135	138	18.03	18.13	17.97	19.5		
100	PI2 BPSK	270	0	18.09	18.07	18.06		20.0	0.0
100	QPSK	1	1	18.55	18.59	18.52			
100	QPSK	1	137	18.44	18.50	18.47			
100	QPSK	1	271	18.42	18.47	18.40		19.0	1.0
100	QPSK	135	0	17.54	17.54	17.51	19.0		
100	QPSK	135	69	18.44	18.57	18.44	20.0		
100	QPSK	135	138	17.52	17.59	17.54	19.0	19.0	1.0
100	QPSK	270	0	17.57	17.63	17.54			
100	16QAM	1	1	17.57	17.55	17.54	19.0		
100	64QAM	1	1	16.02	16.10	16.03	17.5	15.5	2.5
100	256QAM	1	1	14.02	14.00	14.00	15.5		
Channel				650000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	18.45	18.52	18.39	20.0	20.0	0.0
Channel				649334	650000	650666			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	18.47	18.53	18.50	20.0	20.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735.02	3840	3950.01			
60	QPSK	1	81	18.42	18.44	18.45	20.0	20.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3965.02			
50	QPSK	1	67	18.48	18.48	18.43	20.0	20.0	0.0
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	18.50	18.51	18.48	20.0	20.0	0.0
Channel				647334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	18.45	18.50	18.48	20.0	20.0	0.0
Channel				647168	650000	650834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	18.46	18.49	18.39	20.0	20.0	0.0
Channel				647000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	18.49	18.47	18.48	20.0	20.0	0.0
Channel									
Frequency (MHz)									

Par270 n77 HPUE Ant 3 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	20.03	20.06	20.03		21.5	0.0
100	PI2 BPSK	1	137	20.04	20.11	20.09			
100	PI2 BPSK	1	271	20.11	20.13	20.06			
100	PI2 BPSK	135	0	20.05	20.14	20.09	21.5	21.5	0.0
100	PI2 BPSK	135	69	20.02	20.14	20.05	21.5		
100	PI2 BPSK	135	138	20.05	20.15	20.03	21.5		
100	PI2 BPSK	270	0	20.09	20.14	20.04		21.5	0.0
100	QPSK	1	1	20.10	20.16	20.10			
100	QPSK	1	137	20.10	20.11	20.09			
100	QPSK	1	271	20.06	20.10	20.01		20.5	1.0
100	QPSK	135	0	20.09	20.14	20.08	20.5		
100	QPSK	135	69	20.06	20.07	20.03	21.5		
100	QPSK	135	138	20.09	20.10	20.06	20.5	20.5	1.0
100	QPSK	270	0	20.06	20.11	20.06			
100	16QAM	1	1	20.10	20.13	20.07	21.5		
100	64QAM	1	1	19.06	19.08	19.01	20.5	18.5	2.0
100	256QAM	1	1	17.04	17.00	17.02	18.5		
Channel				650000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	20.03	20.10	20.05	21.5	20.0	0.0
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	20.09	20.14	20.03	21.5	20.0	0.0
Channel				648668	650000	651334			
Frequency (MHz)				3735.02	3840	3950.01			
60	QPSK	1	81	20.07	20.10	20.08	21.5	20.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.01	3840	3960.02			
50	QPSK	1	67	20.02	20.13	20.02	21.5	20.0	0.0
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	20.03	20.14	19.98	21.5	20.0	0.0
Channel				647334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	20.03	20.13	20.09	21.5	20.0	0.0
Channel				647168	650000	650834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	20.02	20.11	20.08	21.5	20.0	0.0
Channel				647000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	20.03	20.15	20.00	21.5	20.0	0.0
Channel									
Frequency (MHz)									

Part27Q n77 Ant 3 DSI 4									
BW [MHz]	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					
100	PI2 BPSK	1	1	18.82			20.0	0.0	0.0
100	PI2 BPSK	1	137	18.82					
100	PI2 BPSK	1	271	18.80					
100	PI2 BPSK	135	0	18.42			19.5	0.5	0.5
100	PI2 BPSK	135	69	18.78			20.0	0.0	0.0
100	PI2 BPSK	135	138	18.44			19.5	0.5	0.5
100	PI2 BPSK	270	0	18.31					
100	QPSK	1	1	18.89			20.0	0.0	0.0
100	QPSK	1	137	18.85					
100	QPSK	1	271	18.77					
100	QPSK	135	0	17.90			19.0	1.0	1.0
100	QPSK	135	69	18.57			20.0	0.0	0.0
100	QPSK	135	138	17.91			19.0	1.0	1.0
100	QPSK	270	0	17.97					
100	16QAM	1	1	17.90			19.0	1.0	1.0
100	64QAM	1	1	16.42			17.5	2.5	2.5
100	256QAM	1	1	14.40			15.5	4.5	4.5
Channel				630000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	MPR (dB)
90	QPSK	1	123	18.78	18.82	18.68	20.0	20.0	0.0
Channel				630968	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510.01	Tune-up limit (dBm)	MPR (dB)	MPR (dB)
80	QPSK	1	109	18.71	18.80	18.74	20.0	20.0	0.0
Channel				630000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)	MPR (dB)
60	QPSK	1	81	18.72	18.79	18.69	20.0	20.0	0.0
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525.02	Tune-up limit (dBm)	MPR (dB)	MPR (dB)
50	QPSK	1	67	18.76	18.81	18.74	20.0	20.0	0.0
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	MPR (dB)
40	QPSK	1	53	18.77	18.80	18.73	20.0	20.0	0.0
Channel				630968	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540.02	Tune-up limit (dBm)	MPR (dB)	MPR (dB)
20	QPSK	1	26	18.74	18.79	18.69	20.0	20.0	0.0
Channel				630000	633334	637000			
Frequency (MHz)				3457.5	3500.01	3525.02	Tune-up limit (dBm)	MPR (dB)	MPR (dB)
15	QPSK	1	19	18.70	18.82	18.68	20.0	20.0	0.0
Channel				630334	633334	636334			
Frequency (MHz)				3445.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)	MPR (dB)
10	QPSK	1	12	18.70	18.83	18.71	20.0	20.0	0.0

Part27Q n77 HPUE Ant 3 DSI 4									
BW [MHz]	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			21.5	0.0	
100	PI2 BPSK	1	1	20.42					
100	PI2 BPSK	1	137	20.46					
100	PI2 BPSK	1	271	20.46					
100	PI2 BPSK	135	0	20.39			21.5	0.0	
100	PI2 BPSK	135	69	20.41			21.5	0.0	
100	PI2 BPSK	135	138	20.45			21.5	0.0	
100	PI2 BPSK	270	0	20.40			21.5	0.0	
100	QPSK	1	1	20.52			21.5	0.0	
100	QPSK	1	137	20.50					
100	QPSK	1	271	20.43					
100	QPSK	135	0	20.46					
100	QPSK	135	69	20.50			21.5	0.0	
100	QPSK	135	138	20.45			20.5	1.0	
100	QPSK	270	0	20.46			20.5	1.0	
100	16QAM	1	1	20.41			21.5	0.0	
100	64QAM	1	1	19.43			20.5	1.0	
100	256QAM	1	1	17.43			18.5	3.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	21.5	0.0	
90	QPSK	1	123	20.17	20.24	20.04	21.5	0.0	
Channel				630668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3498.02	3500.01	3510.02	21.5	0.0	
80	QPSK	1	109	20.25	20.26	20.12	21.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3500.01	3520.02	21.5	0.0	
80	QPSK	1	81	20.15	20.21	20.08	21.5	0.0	
Channel				637668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3476.02	3500.01	3525	21.5	0.0	
50	QPSK	1	67	20.15	20.22	20.07	21.5	0.0	
Channel				637334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	21.5	0.0	
40	QPSK	1	53	20.22	20.28	20.08	21.5	0.0	
Channel				636668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.02	3500.01	3460	21.5	0.0	
20	QPSK	1	26	20.19	20.22	20.12	21.5	0.0	
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52	21.5	0.0	
15	QPSK	1	19	20.15	20.28	20.08	21.5	0.0	
Channel				635334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3458.01	3500.01	3545.01	21.5	0.0	
10	QPSK	1	12	20.14	20.23	20.10	21.5	0.0	

Part270 n78 Ant 3 DSI 4									
BW [MHz]	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		18.57		20.0	0.0	
100	Pi2 BPSK	1	137		18.55				
100	Pi2 BPSK	1	271		18.58				
100	Pi2 BPSK	135	0		18.09		19.5	0.5	
100	Pi2 BPSK	135	69		18.59		20.0	0.0	
100	Pi2 BPSK	135	138		18.22		19.5	0.5	
100	Pi2 BPSK	270	0		18.17		20.0	0.0	
100	QPSK	1	1		18.05		20.0	0.0	
100	QPSK	1	137		18.59				
100	QPSK	1	271		18.56				
100	QPSK	135	0		17.57		19.0	1.0	
100	QPSK	135	69		18.60		20.0	0.0	
100	QPSK	135	138		17.60		19.0	1.0	
100	QPSK	270	0		17.66		19.0	1.0	
100	16QAM	1	1		17.58		17.5	2.5	
100	64QAM	1	1		16.15		15.5	4.5	
100	256QAM	1	1		14.14		13.4	8.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	20.0	0.0	
90	QPSK	1	123	18.53	18.59	18.43	20.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	20.0	0.0	
80	QPSK	1	109	18.47	18.55	18.43	20.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	20.0	0.0	
70	QPSK	1	95	18.50	18.59	18.43	20.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	20.0	0.0	
60	QPSK	1	81	18.46	18.52	18.50	20.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	20.0	0.0	
50	QPSK	1	67	18.46	18.57	18.39	20.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	20.0	0.0	
40	QPSK	1	53	18.48	18.63	18.47	20.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	20.0	0.0	
30	QPSK	1	39	18.35	18.54	18.42	20.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	20.0	0.0	
20	QPSK	1	26	18.48	18.63	18.42	20.0	0.0	
Channel				647000	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	20.0	0.0	
15	QPSK	1	19	18.50	18.58	18.48	20.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	20.0	0.0	
10	QPSK	1	12	18.50	18.55	18.46	20.0	0.0	

Part270 n78 HPUE Ant 3 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	Pi2 BPSK	1	1		20.12		21.5	0.0	
100	Pi2 BPSK	1	137		20.13				
100	Pi2 BPSK	1	271		20.16				
100	Pi2 BPSK	135	0		20.20		21.5	0.0	
100	Pi2 BPSK	135	69		20.10		21.5	0.0	
100	Pi2 BPSK	135	138		20.23		21.5	0.0	
100	Pi2 BPSK	270	0		20.08				
100	QPSK	1	1		20.26		21.5	0.0	
100	QPSK	1	137		20.16		21.5	0.0	
100	QPSK	1	271		20.15		21.5	0.0	
100	QPSK	135	0		20.15		21.5	0.0	
100	QPSK	135	69		20.23		21.5	0.0	
100	QPSK	135	138		20.17		21.5	0.0	
100	QPSK	270	0		20.12		21.5	0.0	
100	16QAM	1	1		20.04		21.5	0.0	
100	8QAM	1	1		19.97		20.5	1.0	
100	256QAM	1	1		17.05		18.5	3.0	
Channel									
Frequency (MHz)				646668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				20.12	20.15	20.07	21.5	0.0	
90	QPSK	1	123		3750	3785.01			
Channel									
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3760.01	3750	3760.02	21.5	0.0	
80	QPSK	1	109		20.13	20.16	20.11	21.5	0.0
Channel									
Frequency (MHz)				648334	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3750	3750	3765	21.5	0.0	
70	QPSK	1	95		20.20	20.14	20.05	21.5	0.0
Channel									
Frequency (MHz)				646668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3780.05	3750	3760.01	21.5	0.0	
60	QPSK	1	81		20.21	20.13	20.12	21.5	0.0
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	21.5	0.0	
50	QPSK	1	67		20.21	20.06	20.15	21.5	0.0
Channel									
Frequency (MHz)				645000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3760	21.5	0.0	
40	QPSK	1	53		20.20	19.13	20.06	21.5	0.0
Channel									
Frequency (MHz)				3315.09	3750	3768.01	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	39		20.15	20.08	20.09	21.5	0.0
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.17	3750	3790.02	21.5	0.0	
20	QPSK	1	26		20.11	20.10	20.13	21.5	0.0
Channel									
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	21.5	0.0	
15	QPSK	1	19		20.18	20.09	20.11	21.5	0.0
Channel									
Frequency (MHz)				645000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	21.5	0.0	
10	QPSK	1	12		20.17	20.10	20.04	21.5	0.0

Part27Q 78 Ant 3 DSI 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel				633334		3000.01		
Frequency (MHz)				18.90		20.0		
100	PQ2 BPSK	1	1	18.90	18.96	18.98	20.0	0.0
100	PQ2 BPSK	1	137	18.96	18.98	18.98	20.0	0.0
100	PQ2 BPSK	1	271	18.98	18.60	18.55	19.5	0.5
100	PQ2 BPSK	135	0	18.60	18.69	18.55	20.0	0.0
100	PQ2 BPSK	135	69	18.69	18.55	18.37	19.5	0.5
100	PQ2 BPSK	135	138	18.55	19.06	18.95	20.0	0.0
100	PQ2 BPSK	270	0	18.37	18.95	18.87	20.0	0.0
100	QPSK	1	1	19.06	18.95	18.87	20.0	0.0
100	QPSK	1	137	18.95	17.88	17.88	19.0	1.0
100	QPSK	1	271	18.87	19.04	19.04	20.0	0.0
100	QPSK	135	0	17.88	18.54	18.54	19.0	1.0
100	QPSK	135	69	19.04	18.10	18.07	19.0	1.0
100	QPSK	135	138	18.54	18.56	18.56	17.5	2.5
100	QPSK	270	0	18.10	18.56	18.56	15.5	4.5
100	16QAM	1	1	18.07	18.56	18.56	15.5	4.5
100	64QAM	1	1	18.56	18.56	18.56	15.5	4.5
100	256QAM	1	1	18.56	18.56	18.56	15.5	4.5
Channel				633300	633334	633668	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3485	3000.01	3005.02		
90	QPSK	1	123	18.88	18.95	18.84	20.0	0.0
Channel				632068	633334	634000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3480.02	3000.01	3010.01		
80	QPSK	1	109	18.86	18.93	18.85	20.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3485.01	3000.01	3015.01		
70	QPSK	1	96	18.84	18.94	18.82	20.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3480	3000.01	3020.02		
60	QPSK	1	81	18.88	18.88	18.77	20.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3475.02	3000.01	3025.01		
50	QPSK	1	67	18.95	18.95	18.85	20.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3470.01	3000.01	3030.01		
40	QPSK	1	53	18.87	18.94	18.83	20.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3465	3000.01	3035.02		
30	QPSK	1	39	18.92	18.89	18.82	20.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3460.02	3000.01	3040.01		
20	QPSK	1	25	18.94	19.00	18.76	20.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3455.01	3000.01	3045.01		
15	QPSK	1	19	18.89	18.89	18.79	20.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3450.01	3000.01	3040.01		
10	QPSK	1	12	18.85	18.85	18.82	20.0	0.0

Part27Q 78 HPUE Ant 3 DSI 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel				633334		3000.01		
Frequency (MHz)				20.38		21.5		
100	PQ2 BPSK	1	1	20.38	20.50	20.50	21.5	0.0
100	PQ2 BPSK	1	137	20.50	20.34	20.37	21.5	0.0
100	PQ2 BPSK	1	271	20.34	20.42	20.43	21.5	0.0
100	PQ2 BPSK	135	0	20.37	20.43	20.43	21.5	0.0
100	PQ2 BPSK	135	69	20.42	20.43	20.43	21.5	0.0
100	PQ2 BPSK	135	138	20.43	20.48	20.48	21.5	0.0
100	PQ2 BPSK	270	0	20.48	20.56	20.56	21.5	0.0
100	QPSK	1	1	20.56	20.47	20.47	21.5	0.0
100	QPSK	1	137	20.47	20.41	20.41	21.5	0.0
100	QPSK	1	271	20.41	20.44	20.44	20.5	1.0
100	QPSK	135	0	20.44	20.46	20.46	21.5	0.0
100	QPSK	135	69	20.46	20.34	20.34	20.5	1.0
100	QPSK	135	138	20.34	20.35	20.35	20.5	1.0
100	QPSK	270	0	20.35	20.51	20.51	21.5	0.0
100	16QAM	1	1	20.51	18.47	18.47	20.5	1.0
100	64QAM	1	1	18.47	17.42	17.42	18.5	2.0
100	256QAM	1	1	17.42	18.56	18.56	18.5	2.0
Channel				633300	633334	633668	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3485	3000.01	3005.02		
90	QPSK	1	123	20.45	20.43	20.44	21.5	0.0
Channel				632068	633334	634000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3480.02	3000.01	3010.01		
80	QPSK	1	109	20.41	20.45	20.51	21.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3485.01	3000.01	3015.01		
70	QPSK	1	96	20.43	20.39	20.47	21.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3480	3000.01	3020.02		
60	QPSK	1	81	20.43	20.45	20.47	21.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3475.02	3000.01	3025.01		
50	QPSK	1	67	20.49	20.44	20.50	21.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3470.01	3000.01	3030.01		
40	QPSK	1	53	20.45	20.44	20.45	21.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3465	3000.01	3035.02		
30	QPSK	1	39	20.48	20.48	20.48	21.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3460.02	3000.01	3040.01		
20	QPSK	1	25	20.48	20.39	20.40	21.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3455.01	3000.01	3045.01		
15	QPSK	1	19	20.48	20.48	20.44	21.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3450.01	3000.01	3040.01		
10	QPSK	1	12	20.45	20.39	20.45	21.5	0.0

n38 Ant 4 DSI 4								
BW [MHz]	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	17.5	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	16.05	16.08	16.04	17.5	0.0
40	PI/2 BPSK	1	53	15.96	16.02	16.04		
40	PI/2 BPSK	1	104	16.06	16.07	16.05	17.5	0.0
40	PI/2 BPSK	50	0	16.01	16.05	16.03		
40	PI/2 BPSK	50	28	15.97	16.07	15.98	17.5	0.0
40	PI/2 BPSK	50	56	16.04	16.06	16.04		
40	PI/2 BPSK	100	0	15.98	16.07	15.97	17.5	0.0
40	QPSK	1	1	16.01	16.09	16.04		
40	QPSK	1	53	15.98	16.02	16.02	17.5	0.0
40	QPSK	1	104	15.96	16.06	16.05		
40	QPSK	50	0	15.98	16.07	16.04	17.5	0.0
40	QPSK	50	28	16.01	16.04	16.02		
40	QPSK	50	56	15.99	16.03	16.01	17.5	0.0
40	QPSK	100	0	16.05	16.07	16.05		
40	16QAM	1	1	16.02	16.05	15.99	17.5	0.0
40	64QAM	1	1	16.06	16.06	16.04		
40	256QAM	1	1	16.04	16.05	16.00	17.5	0.0
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99	17.5	0.0
30	QPSK	1	1	15.92	16.04	15.98		
Channel				516504	519000	521496	17.5	0.0
Frequency (MHz)				2582.52	2595	2607.48		
25	QPSK	1	1	15.92	16.07	15.99	17.5	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610	17.5	0.0
20	QPSK	1	1	16.01	16.04	15.98		
Channel				515502	519000	522498	17.5	0.0
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	15.97	16.04	16.03	17.5	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98	17.5	0.0
10	QPSK	1	1	15.90	16.06	15.95		

n41 Ant 4 DSI 4								
BW [MHz]	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	19.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	17.01	17.19	17.01	19.0	0.0
100	PI/2 BPSK	1	137	17.01	17.17	17.08		
100	PI/2 BPSK	1	271	17.06	17.15	17.06	19.0	0.0
100	PI/2 BPSK	135	0	17.06	17.14	17.02		
100	PI/2 BPSK	135	69	17.08	17.18	17.02	19.0	0.0
100	PI/2 BPSK	135	138	17.07	17.16	17.10		
100	PI/2 BPSK	270	0	17.02	17.16	17.02	19.0	0.0
100	QPSK	1	1	17.10	17.22	17.08		
100	QPSK	1	137	17.03	17.16	17.12	19.0	0.0
100	QPSK	1	271	17.03	17.15	17.03		
100	QPSK	135	0	17.05	17.18	17.07	19.0	0.0
100	QPSK	135	69	17.08	17.19	17.11		
100	QPSK	135	138	17.01	17.13	17.02	19.0	0.0
100	QPSK	270	0	17.10	17.20	17.12		
100	16QAM	1	1	17.10	17.20	17.07	19.0	0.0
100	64QAM	1	1	17.10	17.21	17.07		
100	256QAM	1	1	17.04	17.15	17.10	19.0	0.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98	19.0	0.0
90	QPSK	1	1	17.06	17.18	16.98		
Channel				507204	518598	529998	19.0	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.04	17.19	17.02	19.0	0.0
Channel				506200	518598	531996		
Frequency (MHz)				2536	2592.99	2639.98	19.0	0.0
60	QPSK	1	1	17.05	17.20	17.04		
Channel				504204	518598	532998	19.0	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	17.03	17.19	17.07	19.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670	19.0	0.0
40	QPSK	1	1	16.99	17.16	17.05		
Channel				502200	518598	534996	19.0	0.0
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.05	17.21	17.06	19.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99	19.0	0.0
20	QPSK	1	1	17.02	17.19	16.96		
Channel				500700	518598	536496	19.0	0.0
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	17.06	17.17	16.97	19.0	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685	19.0	0.0
10	QPSK	1	1	17.01	17.17	17.00		

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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				636000	641666	646332		
Frequency (MHz)				3570	3624.99	3680		
40	PV2 BPSK	1	1	20.90	20.95	21.00		
40	PV2 BPSK	1	53	20.92	21.04	20.98	22.5	0.0
40	PV2 BPSK	1	104	20.97	20.94	20.98		
40	PV2 BPSK	50	0	20.96	20.94	20.96	22.5	0.0
40	PV2 BPSK	50	28	20.90	20.95	21.00	22.5	0.0
40	PV2 BPSK	50	56	20.88	20.96	20.94		
40	PV2 BPSK	100	0	20.88	21.04	20.97		
40	QPSK	1	1	21.02	21.07	21.06		
40	QPSK	1	53	20.97	21.03	21.01	22.5	0.0
40	QPSK	1	104	20.95	21.04	20.95		
40	QPSK	50	0	20.85	20.91	20.85	22.5	0.0
40	QPSK	50	28	20.95	21.02	20.98	22.5	0.0
40	QPSK	50	56	20.93	20.94	20.88		
40	QPSK	100	0	20.92	20.95	20.87		
40	16QAM	1	1	20.91	20.95	21.01	22.5	0.0
40	64QAM	1	1	20.85	20.89	20.84	22.5	0.0
40	256QAM	1	1	19.92	20.01	19.95	21.5	1.0
Channel				637166	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555.02	3624.99	3684.99		
30	QPSK	1	1	20.91	20.99	20.97	22.5	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3560.01	3624.99	3690.00		
20	QPSK	1	1	20.90	20.95	20.95	22.5	0.0
Channel				637166	641666	646166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.52	3624.99	3692.49		
15	QPSK	1	1	20.97	20.95	20.93	22.5	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3624.99	3695		
10	QPSK	1	1	20.90	20.99	21.01	22.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3840	3930		
100	PV2 BPSK	1	1	20.59	20.62	20.50		
100	PV2 BPSK	1	137	20.52	20.61	20.53	22.0	0.0
100	PV2 BPSK	1	271	20.60	20.66	20.53		
100	PV2 BPSK	135	0	20.62	20.64	20.50	22.0	0.0
100	PV2 BPSK	135	69	20.60	20.65	20.53	22.0	0.0
100	PV2 BPSK	135	138	20.52	20.63	20.57		
100	PV2 BPSK	270	0	20.57	20.64	20.59		
100	QPSK	1	1	20.65	20.69	20.63		
100	QPSK	1	137	20.59	20.61	20.51	22.0	0.0
100	QPSK	1	271	20.63	20.61	20.51		
100	QPSK	135	0	20.52	20.58	20.57	22.0	0.0
100	QPSK	135	69	20.54	20.64	20.61	22.0	0.0
100	QPSK	135	138	20.61	20.60	20.52		
100	QPSK	270	0	20.58	20.60	20.52		
100	16QAM	1	1	20.61	20.58	20.50	22.0	0.0
100	64QAM	1	1	20.57	20.58	20.58	22.0	0.0
100	256QAM	1	1	20.54	20.55	20.53	22.0	0.0
Channel				645068	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	123	20.58	20.64	20.49	22.0	0.0
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	20.61	20.62	20.50	22.0	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	20.53	20.65	20.51	22.0	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	20.59	20.64	20.54	22.0	0.0
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	20.56	20.58	20.58	22.0	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	20.60	20.59	20.59	22.0	0.0
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705.52	3840	3972.51		
15	QPSK	1	19	20.59	20.55	20.60	22.0	0.0
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	20.53	20.58	20.57	22.0	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				633000	633334	633668		
Frequency (MHz)				3500.01				
100	PV2 BPSK	1	1		20.58			
100	PV2 BPSK	1	137		20.60		22.0	0.0
100	PV2 BPSK	1	271		20.61			
100	PV2 BPSK	135	0		20.62		22.0	0.0
100	PV2 BPSK	135	69		20.64		22.0	0.0
100	PV2 BPSK	135	138		20.55			
100	PV2 BPSK	270	0		20.58			
100	QPSK	1	1		20.66			
100	QPSK	1	137		20.54		22.0	0.0
100	QPSK	1	271		20.53			
100	QPSK	135	0		20.54		21.0	1.0
100	QPSK	135	69		20.57		22.0	0.0
100	QPSK	135	138		20.52			
100	QPSK	270	0		20.55		21.0	1.0
100	16QAM	1	1		20.53		22.0	0.0
100	64QAM	1	1		20.53		22.0	0.0
100	256QAM	1	1		20.53		22.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	20.47	20.54	20.47	22.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	20.53	20.64	20.39	22.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	20.58	20.56	20.48	22.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.02	3500.01	3520		
50	QPSK	1	67	20.53	20.57	20.40	22.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	20.52	20.58	20.49	22.0	0.0
Channel				630998	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	20.52	20.57	20.44	22.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	19	20.53	20.64	20.43	22.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	20.51	20.57	20.49	22.0	0.0

Part27O n78 PC2&3 Ant 5 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		19.63		21.0	0.0	
100	PI2 BPSK	1	137		19.64				
100	PI2 BPSK	1	271		19.58				
100	PI2 BPSK	135	0		19.60		21.0	0.0	
100	PI2 BPSK	135	69		19.61		21.0	0.0	
100	PI2 BPSK	135	138		19.54		21.0	0.0	
100	PI2 BPSK	270	0		19.53		21.0	0.0	
100	QPSK	1	1		19.57				
100	QPSK	1	137		19.58				
100	QPSK	1	271		19.57		20.0	1.0	
100	QPSK	135	0		19.55				
100	QPSK	135	69		19.59				
100	QPSK	135	138		19.57		20.0	1.0	
100	QPSK	270	0		19.53		21.0	0.0	
100	16QAM	1	1		19.49				
100	64QAM	1	1		19.51				
100	256QAM	1	1		19.56		21.0	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	123	19.46	19.56	19.42	21.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	19.42	19.50	19.51	21.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	19.44	19.54	19.52	21.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	19.45	19.57	19.47	21.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	19.42	19.51	19.47	21.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	19.47	19.59	19.49	21.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	39	19.43	19.50	19.46	21.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3750.02			
20	QPSK	1	26	19.52	19.50	19.52	21.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3729.51			
15	QPSK	1	19	19.41	19.59	19.53	21.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	19.46	19.56	19.52	21.0	0.0	

Part27Q n78 PC2&3 Ant 5 DSI 4									
BW [MHz]	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	633334	633334			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		19.53		21.0	0.0	
100	PI2 BPSK	1	137		19.51				
100	PI2 BPSK	1	271		19.44				
100	PI2 BPSK	135	0		19.50		21.0	0.0	
100	PI2 BPSK	135	69		19.58		21.0	0.0	
100	PI2 BPSK	135	138		19.51		21.0	0.0	
100	PI2 BPSK	270	0		19.39		21.0	0.0	
100	QPSK	1	1		19.61				
100	QPSK	1	137		19.54				
100	QPSK	1	271		19.45		20.0	1.0	
100	QPSK	135	0		19.46				
100	QPSK	135	69		19.51				
100	QPSK	135	138		19.44		20.0	1.0	
100	QPSK	270	0		19.40		21.0	0.0	
100	16QAM	1	1		19.41				
100	64QAM	1	1		19.45				
100	256QAM	1	1		19.47		21.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	19.37	19.53	19.37	21.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	19.39	19.49	19.35	21.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	95	19.39	19.45	19.31	21.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	19.38	19.48	19.34	21.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	19.38	19.50	19.28	21.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	19.37	19.43	19.39	21.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3533.02			
30	QPSK	1	39	19.34	19.52	19.37	21.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	19.39	19.53	19.38	21.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	19.43	19.54	19.32	21.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	19.33	19.52	19.33	21.0	0.0	

n38 Ant 7 DSI 4									
BW (MHz)	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)									
40	PI2 BPSK	1	1	15.32	15.38	15.31			
40	PI2 BPSK	1	53	15.27	15.36	15.27	17.0	0.0	
40	PI2 BPSK	1	104	15.30	15.33	15.33			
40	PI2 BPSK	50	0	15.33	15.36	15.34	17.0	0.0	
40	PI2 BPSK	50	28	15.30	15.33	15.27	17.0	0.0	
40	PI2 BPSK	50	56	15.27	15.34	15.37	17.0	0.0	
40	PI2 BPSK	100	0	15.27	15.32	15.33			
40	QPSK	1	1	15.35	15.40	15.38			
40	QPSK	1	53	15.35	15.37	15.28	17.0	0.0	
40	QPSK	1	104	15.29	15.36	15.32			
40	QPSK	50	0	15.32	15.35	15.31	17.0	0.0	
40	QPSK	50	28	15.33	15.39	15.34	17.0	0.0	
40	QPSK	50	56	15.33	15.36	15.26	17.0	0.0	
40	QPSK	100	0	15.32	15.38	15.33			
40	16QAM	1	1	15.35	15.37	15.29	17.0	0.0	
40	64QAM	1	1	15.34	15.37	15.35	17.0	0.0	
40	256QAM	1	1	15.36	15.46	15.42	15.5	1.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.28	15.35	15.28	17.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.30	15.36	15.29	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.34	15.38	15.27	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.23	15.38	15.36	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.24	15.35	15.35	17.0	0.0	

n41 Ant 7 DSI 4									
BW (MHz)	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	15.46	15.51	15.31			
100	PI2 BPSK	1	137	15.43	15.47	15.36	17.0	0.0	
100	PI2 BPSK	1	271	15.41	15.50	15.36			
100	PI2 BPSK	135	0	15.45	15.43	15.29	17.0	0.0	
100	PI2 BPSK	135	69	15.41	15.45	15.37	17.0	0.0	
100	PI2 BPSK	135	138	15.46	15.42	15.30	17.0	0.0	
100	PI2 BPSK	270	0	15.46	15.51	15.30			
100	QPSK	1	1	15.48	15.53	15.39			
100	QPSK	1	107	15.45	15.50	15.38	17.0	0.0	
100	QPSK	1	271	15.48	15.51	15.35			
100	QPSK	135	0	15.46	15.46	15.37	17.0	0.0	
100	QPSK	135	69	15.48	15.51	15.38	17.0	0.0	
100	QPSK	135	138	15.44	15.46	15.37	17.0	0.0	
100	QPSK	270	0	15.47	15.50	15.35			
100	16QAM	1	1	15.40	15.46	15.35	17.0	0.0	
100	64QAM	1	1	15.48	15.51	15.38	17.0	0.0	
100	256QAM	1	1	15.51	15.52	15.32	15.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	15.43	15.52	15.39	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	15.43	15.50	15.37	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	15.42	15.51	15.37	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	15.45	15.52	15.32	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	15.40	15.51	15.27	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	15.38	15.47	15.31	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	15.43	15.48	15.35	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	15.43	15.50	15.32	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	15.38	15.51	15.32	17.0	0.0	

n48 Ant 7 DSI 4									
BW [MHz]	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)									
40	PI2 BPSK	1	1	20.86	20.93	20.87			
40	PI2 BPSK	1	53	20.88	20.94	20.91	22.5	0.0	
40	PI2 BPSK	1	104	20.82	20.88	20.90			
40	PI2 BPSK	50	0	20.80	20.91	20.89	22.5	0.0	
40	PI2 BPSK	50	28	20.85	20.89	20.89	22.5	0.0	
40	PI2 BPSK	50	56	20.82	20.94	20.85	22.5	0.0	
40	PI2 BPSK	100	0	20.91	20.93	20.91			
40	QPSK	1	1	20.92	20.95	20.88			
40	QPSK	1	53	20.86	20.92	20.88	22.5	0.0	
40	QPSK	1	104	20.92	20.93	20.91			
40	QPSK	50	0	20.87	20.93	20.88	22.5	0.0	
40	QPSK	50	28	20.91	20.94	20.90	22.5	0.0	
40	QPSK	50	56	20.91	20.88	20.85	22.5	0.0	
40	QPSK	100	0	20.84	20.95	20.88			
40	16QAM	1	1	20.80	20.92	20.89	22.5	0.0	
40	64QAM	1	1	20.33	20.41	20.44	22.0	0.5	
40	256QAM	1	1	18.41	18.46	18.45	20.0	2.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.82	20.91	20.78	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.83	20.93	20.79	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.90	20.99	20.85	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.80	20.92	20.78	22.5	0.0	

Par270 n77 PC2&3 Ant 7 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3940	3930			
100	Pi2 BPSK	1	1	17.06	17.10	17.02			
100	Pi2 BPSK	1	137	17.00	17.13	17.09	18.5	0.0	
100	Pi2 BPSK	1	271	17.05	17.18	17.05			
100	Pi2 BPSK	135	0	17.01	17.16	17.05	18.5	0.0	
100	Pi2 BPSK	135	69	16.99	17.13	17.03	18.5	0.0	
100	Pi2 BPSK	135	138	17.07	17.14	17.02	18.5	0.0	
100	Pi2 BPSK	270	0	17.00	17.07	17.10			
100	QPSK	1	1	17.08	17.18	17.10			
100	QPSK	1	137	16.96	17.14	17.06	18.5	0.0	
100	QPSK	1	271	16.99	17.07	17.11			
100	QPSK	135	0	17.06	17.10	17.01	18.5	0.0	
100	QPSK	135	69	17.08	17.12	17.06	18.5	0.0	
100	QPSK	135	138	17.06	17.09	17.04	18.5	0.0	
100	QPSK	270	0	17.05	17.15	17.07			
100	16QAM	1	1	16.99	17.08	17.07	18.5	0.0	
100	64QAM	1	1	17.03	17.07	17.02	18.5	0.0	
100	256QAM	1	1	17.02	17.10	17.05	18.5	0.0	
Channel				650000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	123	17.01	17.11	17.01	18.5	0.0	
Channel				646334	650000	646068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3742.01	3840	3942.02			
80	QPSK	1	109	17.06	17.18	17.00	18.5	0.0	
Channel				648868	650000	648334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3940	3950.01			
60	QPSK	1	81	17.02	17.13	17.10	18.5	0.0	
Channel				648334	650000	648068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	17.06	17.10	17.06	18.5	0.0	
Channel				649000	650000	649000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	17.05	17.16	17.03	18.5	0.0	
Channel				647334	650000	646868	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	16.99	17.14	17.09	18.5	0.0	
Channel				647168	650000	646834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3940	3972.51			
15	QPSK	1	19	17.02	17.09	17.04	18.5	0.0	
Channel				647000	650000	646500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	16.97	17.17	17.09	18.5	0.0	

Part27Q n77 PC2&3 Ant 7 DSI 4									
BW [MHz]	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	630000			
Frequency (MHz)				3000.01					
100	Pi2 BPSK	1	1	17.32					
100	Pi2 BPSK	1	137	17.31			18.5	0.0	
100	Pi2 BPSK	1	271	17.33					
100	Pi2 BPSK	135	0	17.29			18.5	0.0	
100	Pi2 BPSK	135	69	17.30			18.5	0.0	
100	Pi2 BPSK	135	138	17.32			18.5	0.0	
100	Pi2 BPSK	270	0	17.34					
100	QPSK	1	1	17.36					
100	QPSK	1	137	17.35			18.5	0.0	
100	QPSK	1	271	17.35					
100	QPSK	135	0	17.26			18.5	0.0	
100	QPSK	135	69	17.30			18.5	0.0	
100	QPSK	135	138	17.28			18.5	0.0	
100	QPSK	270	0	17.32			18.5	0.0	
100	16QAM	1	1	17.34			18.5	0.0	
100	64QAM	1	1	17.35			18.5	0.0	
100	256QAM	1	1	17.32			18.5	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3505.02			
90	QPSK	1	123	17.08	17.26	16.97	18.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3500.01	3510			
80	QPSK	1	109	17.02	17.28	16.95	18.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	17.05	17.22	16.98	18.5	0.0	
Channel				631968	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	17.06	17.24	17.00	18.5	0.0	
Channel				631534	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	17.08	17.23	17.00	18.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465.02	3500.01	3540			
20	QPSK	1	26	17.09	17.23	17.03	18.5	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	17.07	17.23	16.98	18.5	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	17.10	17.25	16.98	18.5	0.0	

Part270 n78 PC2&3 Ant 7 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	Pi2 BPSK	1	1		18.01			19.5	0.0
100	Pi2 BPSK	1	137		18.00				
100	Pi2 BPSK	1	271		17.99				
100	Pi2 BPSK	135	0		17.91			19.5	0.0
100	Pi2 BPSK	135	69		17.97			19.5	0.0
100	Pi2 BPSK	135	138		18.01			19.5	0.0
100	Pi2 BPSK	270	0		17.99				
100	QPSK	1	1		18.00			19.5	0.0
100	QPSK	1	137		17.93			19.5	0.0
100	QPSK	1	271		17.93				
100	QPSK	135	0		17.92			19.5	0.0
100	QPSK	135	69		17.98			19.5	0.0
100	QPSK	135	138		17.98			19.5	0.0
100	QPSK	270	0		18.00			19.5	0.0
100	16QAM	1	1		17.99			19.5	0.0
100	64QAM	1	1		17.97			19.5	0.0
100	256QAM	1	1		17.97			19.5	0.0
Channel				646668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	123	17.84	17.86	17.83	19.5	0.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3742.01	3750	3762.02			
80	QPSK	1	109	17.79	17.85	17.75	19.5	0.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	17.80	17.88	17.78	19.5	0.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	17.75	17.83	17.84	19.5	0.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	17.77	17.84	17.78	19.5	0.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	17.82	17.84	17.80	19.5	0.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	17.81	17.87	17.81	19.5	0.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	17.82	17.81	17.75	19.5	0.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	17.83	17.89	17.79	19.5	0.0	0.0
Channel				646700	650000	653300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	17.83	17.92	17.83	19.5	0.0	0.0

Part27Q 78 PC2&3 Ant 7 DSI 4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Main Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633334			MPR (dB)
Frequency (MHz)				3000.01			
100	PQ2 BPSK	1	1	18.38			
100	PQ2 BPSK	1	137	18.39			19.5
100	PQ2 BPSK	1	271	18.41			
100	PQ2 BPSK	135	0	18.40			19.5
100	PQ2 BPSK	135	69	18.38			19.5
100	PQ2 BPSK	135	138	18.35			19.5
100	PQ2 BPSK	270	0	18.34			19.5
100	QPSK	1	1	18.42			
100	QPSK	1	137	18.41			19.5
100	QPSK	1	271	18.37			19.5
100	QPSK	135	0	18.34			19.5
100	QPSK	135	69	18.40			19.5
100	QPSK	135	138	18.37			19.5
100	QPSK	270	0	18.35			19.5
100	16QAM	1	1	18.38			19.5
100	64QAM	1	1	18.38			19.5
100	256QAM	1	1	18.37			19.5
Channel				633000	633334	633668	Tune-up limit (dBm)
Frequency (MHz)				3485	3000.01	3005.02	MPR (dB)
90	QPSK	1	123	18.06	18.18	17.96	19.5
Channel				632668	633334	634000	Tune-up limit (dBm)
Frequency (MHz)				3480.02	3000.01	3510	MPR (dB)
80	QPSK	1	109	18.04	18.17	18.01	19.5
Channel				632334	633334	634334	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3000.01	3515.01	MPR (dB)
70	QPSK	1	95	18.14	18.10	18.07	19.5
Channel				632000	633334	634668	Tune-up limit (dBm)
Frequency (MHz)				3480	3000.01	3520.02	MPR (dB)
60	QPSK	1	81	18.11	18.21	18.01	19.5
Channel				631668	633334	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3000.01	3525	MPR (dB)
50	QPSK	1	67	18.13	18.20	18.04	19.5
Channel				631334	633334	635334	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3000.01	3530.01	MPR (dB)
40	QPSK	1	53	18.07	18.13	18.02	19.5
Channel				631000	633334	635668	Tune-up limit (dBm)
Frequency (MHz)				3465	3000.01	3535.02	MPR (dB)
30	QPSK	1	39	18.11	18.17	17.98	19.5
Channel				630668	633334	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3000.01	3540	MPR (dB)
20	QPSK	1	25	18.13	18.10	17.96	19.5
Channel				630334	633334	636334	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3000.01	3545.01	MPR (dB)
15	QPSK	1	19	18.07	18.17	17.95	19.5
Channel				630334	633334	636334	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3000.01	3545.01	MPR (dB)
10	QPSK	1	12	18.15	18.15	17.95	19.5

Par270 n77 PC2&3 Ant 5 DSI 4 for ENDC											
BW [MHz]	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	19.44	19.46	19.31	21.0	0.0			
100	PI2 BPSK	1	137	19.32	19.42	19.32					
100	PI2 BPSK	1	271	19.37	19.45	19.31					
100	PI2 BPSK	135	0	19.40	19.46	19.35					
100	PI2 BPSK	135	69	19.40	19.46	19.30	21.0	0.0			
100	PI2 BPSK	135	138	19.28	19.37	19.36	21.0	0.0			
100	PI2 BPSK	270	0	19.37	19.43	19.38					
100	QPSK	1	1	19.44	19.47	19.45					
100	QPSK	1	137	19.40	19.44	19.31					
100	QPSK	1	271	19.41	19.43	19.29	21.0	0.0			
100	QPSK	135	0	19.34	19.33	19.40					
100	QPSK	135	69	19.40	19.43	19.41					
100	QPSK	135	138	19.36	19.36	19.37					
100	QPSK	270	0	19.40	19.42	19.36	21.0	0.0			
100	16QAM	1	1	19.35	19.38	19.34	21.0	0.0			
100	64QAM	1	1	19.38	19.43	19.40	21.0	0.0			
100	256QAM	1	1	19.28	19.35	19.27	21.0	0.0			
Channel											
Frequency (MHz)											
90	QPSK	1	123	19.37	19.42	19.38	21.0	MPR (dB)			
Channel											
Frequency (MHz)											
80	QPSK	1	109	19.46	19.42	19.40	21.0	MPR (dB)			
Channel											
Frequency (MHz)											
60	QPSK	1	81	19.36	19.46	19.43	21.0	MPR (dB)			
Channel											
Frequency (MHz)											
50	QPSK	1	67	19.40	19.43	19.46	21.0	MPR (dB)			
Channel											
Frequency (MHz)											
40	QPSK	1	53	19.36	19.44	19.43	21.0	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	26	19.35	19.45	19.36	21.0	MPR (dB)			
Channel											
Frequency (MHz)											
15	QPSK	1	19	19.42	19.42	19.46	21.0	MPR (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	12	19.46	19.44	19.40	21.0	MPR (dB)			

Reduced Power Mode for Main PA DSI4 ENDC											
Part27Q n77 PC2&3 Ant 5 DSI 4 for ENDC											
BW [MHz]	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		19.44		21.0	0.0			
100	PI2 BPSK	1	137		19.40						
100	PI2 BPSK	1	271		19.43						
100	PI2 BPSK	135	0		19.45						
100	PI2 BPSK	135	69		19.45		21.0	0.0			
100	PI2 BPSK	135	138		19.34		21.0	0.0			
100	PI2 BPSK	270	0		19.44						
100	QPSK	1	1		19.46						
100	QPSK	1	137		19.40						
100	QPSK	1	271		19.33		21.0	0.0			
100	QPSK	135	0		19.40						
100	QPSK	135	69		19.41						
100	QPSK	135	138		19.38						
100	QPSK	270	0		19.38		21.0	0.0			
100	16QAM	1	1		19.29		21.0	0.0			
100	64QAM	1	1		19.34		21.0	0.0			
100	256QAM	1	1		19.27		21.0	0.0			
Channel											
Frequency (MHz)											
90	QPSK	1	123	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
80	QPSK	1	109	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
60	QPSK	1	81	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
50	QPSK	1	67	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
40	QPSK	1	53	631334	633334	635334	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	26	630668	633334	635668	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
15	QPSK	1	19	630334	633334	635999	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	12	630000	633334	636334	Tune-up limit (dBm)	MPR (dB)			

Part270 n78 PC2&3 Ant 5 DSI 4 for ENDC									
BW [MHz]	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	20.0	0.0	
100	PI2 BPSK	1	137		19.41				
100	PI2 BPSK	1	271		19.41				
100	PI2 BPSK	135	0		19.42				
100	PI2 BPSK	135	69		19.42		20.0	0.0	
100	PI2 BPSK	135	138		19.33		20.0	0.0	
100	PI2 BPSK	270	0		19.35				
100	QPSK	1	1		19.53				
100	QPSK	1	137		19.40				
100	QPSK	1	271		19.32		20.0	0.0	
100	QPSK	135	0		19.36		20.0	0.0	
100	QPSK	135	69		19.42				
100	QPSK	135	138		19.31				
100	QPSK	270	0		19.38				
100	16QAM	1	1		19.37		20.0	0.0	
100	64QAM	1	1		19.38		20.0	0.0	
100	256QAM	1	1		19.38		20.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	95	647999	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	647668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	647334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	647000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	39	646712	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	25	646400	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	646134	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	645933	650000	653334	Tune-up limit (dBm)	MPR (dB)	

Part27Q n78 PC2&3 Ant 5 DSI 4 for ENDC									
BW [MHz]	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			20.0	0.0	
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	19.43			20.0	0.0	
100	PI2 BPSK	1	137	19.40					
100	PI2 BPSK	1	271	19.37					
100	PI2 BPSK	135	0	19.45			20.0	0.0	
100	PI2 BPSK	135	69	19.49			20.0	0.0	
100	PI2 BPSK	135	138	19.47			20.0	0.0	
100	PI2 BPSK	270	0	19.31					
100	QPSK	1	1	19.52					
100	QPSK	1	137	19.43			20.0	0.0	
100	QPSK	1	271	19.40					
100	QPSK	135	0	19.39			20.0	0.0	
100	QPSK	135	69	19.44			20.0	0.0	
100	QPSK	135	138	19.27			20.0	0.0	
100	QPSK	270	0	19.38					
100	16QAM	1	1	19.32			20.0	0.0	
100	64QAM	1	1	19.38			20.0	0.0	
100	256QAM	1	1	19.38			20.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	19.25	19.43	19.27	20.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	19.30	19.42	19.33	20.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	95	19.33	19.42	19.29	20.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	19.23	19.44	19.28	20.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	19.32	19.46	19.26	20.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	19.28	19.47	19.32	20.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	39	19.26	19.47	19.27	20.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	19.33	19.48	19.32	20.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19	19.29	19.46	19.26	20.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	19.21	19.47	19.28	20.0	0.0	

n2 other PA Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	22.98	22.99	22.94	24.5	0.0
20	PI2 BPSK	1	53	22.96	22.96	23.03		
20	PI2 BPSK	1	104	23.03	23.00	23.00		
20	PI2 BPSK	50	0	22.57	22.63	22.51	24.0	0.5
20	PI2 BPSK	50	28	22.96	23.02	22.92	24.5	0.0
20	PI2 BPSK	50	56	22.60	22.56	22.52	24.0	0.5
20	PI2 BPSK	100	0	22.54	22.56	22.56		
20	QPSK	1	1	23.08	23.11	23.05		
20	QPSK	1	53	23.01	23.05	22.97	24.5	0.0
20	QPSK	1	104	23.01	23.04	23.02	23.5	1.0
20	QPSK	50	0	22.08	22.09	22.01		
20	QPSK	50	28	23.02	23.07	22.59		
20	QPSK	50	56	22.11	22.06	22.06	23.5	1.0
20	QPSK	100	0	22.07	22.13	22.06		
20	16QAM	1	1	22.08	22.06	22.03	23.5	1.0
20	64QAM	1	1	20.58	20.64	20.61	22.0	2.5
20	256QAM	1	1	18.54	18.61	18.53	20.0	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	23.02	22.98	22.92	24.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1900	1920	1940		
10	QPSK	1	1	23.00	23.05	22.92	24.5	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5		
5	QPSK	1	1	22.95	22.98	23.01	24.5	0.0

Full & Default Power_Other PA

n7 other PA Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2625	2635	2645		
50	PI2 BPSK	1	1	22.97	22.90	22.92	24.5	0.0
50	PI2 BPSK	1	135	22.88	22.96	22.93		
50	PI2 BPSK	1	268	23.01	22.98	22.89		
50	PI2 BPSK	135	0	22.49	22.55	22.44	24.0	0.5
50	PI2 BPSK	135	68	22.93	22.92	22.80	24.5	0.0
50	PI2 BPSK	135	135	22.59	22.46	22.48	24.0	0.5
50	PI2 BPSK	270	0	22.51	22.46	22.46		
50	QPSK	1	1	22.96	22.98	22.96		
50	QPSK	1	135	22.99	22.94	22.93	24.5	0.0
50	QPSK	1	268	22.99	23.08	22.97	23.5	1.0
50	QPSK	135	0	22.07	22.00	21.90		
50	QPSK	135	68	23.01	23.05	22.88		
50	QPSK	135	135	22.11	21.96	21.86	23.5	1.0
50	QPSK	270	0	22.02	22.06	21.99		
50	16QAM	1	1	22.00	22.01	22.02	23.5	1.0
50	64QAM	1	1	20.49	20.54	20.51	22.0	2.5
50	256QAM	1	1	18.44	18.61	18.42	20.0	4.5
Channel				504000	507000	509000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2620	2635	2650		
40	QPSK	1	1	22.96	22.92	22.87	24.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2610	2635	2660		
30	QPSK	1	1	22.91	22.96	22.92	24.5	0.0
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2612.5	2635	2657.5		
25	QPSK	1	1	23.00	22.88	22.84	24.5	0.0
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2610	2635	2660		
20	QPSK	1	1	22.91	22.89	22.91	24.5	0.0
Channel				501000	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2607.5	2635	2662.5		
15	QPSK	1	1	22.93	22.86	22.91	24.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2605	2635	2665		
10	QPSK	1	1	22.92	22.94	22.81	24.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2602.5	2635	2667.5		
5	QPSK	1	1	22.94	22.90	22.81	24.5	0.0

n66 other PA Ant 2

BW [MHz]	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	23.05	22.88	22.93	24.5	0.0
40	PI2 BPSK	1	108	22.91	23.04	22.96		
40	PI2 BPSK	1	214	23.10	23.00	22.87		
40	PI2 BPSK	108	0	22.47	22.58	22.53	24.0	0.5
40	PI2 BPSK	108	54	22.93	22.94	22.87	24.5	0.0
40	PI2 BPSK	108	108	22.57	22.44	22.51	24.0	0.5
40	PI2 BPSK	216	0	22.59	22.54	22.43		
40	QPSK	1	1	23.01	23.15	23.04		
40	QPSK	1	108	22.97	22.94	22.91	24.5	0.0
40	QPSK	1	214	22.96	22.97	22.94	23.5	1.0
40	QPSK	108	0	22.06	22.08	21.92		
40	QPSK	108	54	23.06	23.12	22.96		
40	QPSK	108	108	22.01	22.04	22.00	23.5	1.0
40	QPSK	216	0	22.02	22.19	22.00		
40	16QAM	1	1	22.01	22.09	22.02	23.5	1.0
40	64QAM	1	1	20.51	20.60	20.59	22.0	2.5
40	256QAM	1	1	18.49	18.68	18.44	20.0	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.07	23.03	22.99	24.5	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	23.02	23.07	23.01	24.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.02	23.06	22.90	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	23.04	23.04	22.90	24.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.01	23.01	22.93	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	23.09	22.96	22.90	24.5	0.0

n2 other PA Ant 2 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	17.58	17.61	17.54	19.0	0.0
20	PI2 BPSK	1	53	17.59	17.58	17.57		
20	PI2 BPSK	1	104	17.63	17.59	17.50		
20	PI2 BPSK	50	0	17.59	17.61	17.55	19.0	0.0
20	PI2 BPSK	50	28	17.55	17.61	17.50	19.0	0.0
20	PI2 BPSK	50	56	17.56	17.62	17.56	19.0	0.0
20	PI2 BPSK	100	0	17.58	17.59	17.49		
20	QPSK	1	1	17.62	17.64	17.54		
20	QPSK	1	53	17.56	17.62	17.56	19.0	0.0
20	QPSK	1	104	17.53	17.60	17.53	19.0	0.0
20	QPSK	50	0	17.57	17.60	17.52		
20	QPSK	50	28	17.55	17.61	17.57		
20	QPSK	50	56	17.54	17.55	17.53	19.0	0.0
20	QPSK	100	0	17.60	17.63	17.51		
20	16QAM	1	1	17.57	17.62	17.55		
20	64QAM	1	1	17.57	17.60	17.60	19.0	0.0
20	256QAM	1	1	17.56	17.61	17.50	19.0	0.0
Channel				371000	372000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	17.51	17.62	17.54	19.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857	1880	1900		
10	QPSK	1	1	17.61	17.60	17.49	19.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5		
5	QPSK	1	1	17.51	17.63	17.45	19.0	0.0

Reduced Power Mode for Other PA DSI1

n7 other PA Ant 2 DSI1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	22.46	22.52	22.37	24.0	0.0
50	PI2 BPSK	1	135	22.37	22.41	22.47		
50	PI2 BPSK	1	269	22.48	22.50	22.39		
50	PI2 BPSK	135	0	22.49	22.55	22.44	24.0	0.0
50	PI2 BPSK	135	68	22.45	22.46	22.32	24.0	0.0
50	PI2 BPSK	135	135	22.59	22.46	22.48	24.0	0.0
50	PI2 BPSK	270	0	22.51	22.46	22.46		
50	QPSK	1	1	22.51	22.41	22.42		
50	QPSK	1	135	22.46	22.47	22.43	24.0	0.0
50	QPSK	1	268	22.44	22.60	22.48	23.5	0.5
50	QPSK	135	0	22.07	22.00	21.90		
50	QPSK	135	68	22.52	22.54	22.37		
50	QPSK	135	135	22.11	21.98	21.86	23.5	0.5
50	QPSK	270	0	22.02	22.06	21.99		
50	16QAM	1	1	22.00	22.01	22.02	23.5	0.5
50	64QAM	1	1	20.49	20.54	20.51	22.0	2.0
50	256QAM	1	1	18.44	18.61	18.42	20.0	4.0
Channel				504000	507000	509000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	22.36	22.52	22.46	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.36	22.52	22.39	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.39	22.54	22.37	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2550		
20	QPSK	1	1	22.39	22.57	22.41	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.42	22.57	22.47	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.34	22.59	22.39	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.43	22.53	22.44	24.0	0.0

n66 other PA Ant 2 DSI1

BW [MHz]	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	23.05	22.88	22.93	24.5	0.0
40	PI2 BPSK	1	108	22.91	23.04	22.96		
40	PI2 BPSK	1	214	23.10	23.00	22.87		
40	PI2 BPSK	108	0	22.47	22.98	22.53	24.0	0.5
40	PI2 BPSK	108	54	22.93	22.94	22.87	24.5	0.0
40	PI2 BPSK	108	108	22.57	22.44	22.51	24.0	0.5
40	PI2 BPSK	216	0	22.59	22.54	22.43		
40	QPSK	1	1	23.01	23.15	23.04		
40	QPSK	1	108	22.97	22.94	22.91	24.5	0.0
40	QPSK	1	214	22.96	22.97	22.94	23.5	1.0
40	QPSK	108	0	22.06	22.08	21.92		
40	QPSK	108	54	23.06	23.12	22.96		
40	QPSK	108	108	22.01	22.04	22.00	23.5	1.0
40	QPSK	216	0	22.02	22.19	22.00		
40	16QAM	1	1	22.01	22.09	22.02	23.5	1.0
40	64QAM	1	1	20.51	20.60	20.59	22.0	2.5
40	256QAM	1	1	18.49	18.68	18.44	20.0	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.07	23.03	22.99	24.5	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	23.02	23.07	23.01	24.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.02	23.06	22.90	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	23.04	23.04	22.90	24.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.01	23.01	22.93	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	23.09	22.96	22.90	24.5	0.0

Reduced Power Mode for Other PA DSI1 END C								
n66 other PA Ant 2 DSI1 for END C								
BW [MHz]	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	22.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	20.53	20.68	20.49		
40	PI/2 BPSK	1	108	20.53	20.68	20.57	22.0	0.0
40	PI/2 BPSK	1	214	20.55	20.66	20.55		
40	PI/2 BPSK	108	0	20.48	20.59	20.56		
40	PI/2 BPSK	108	54	20.49	20.60	20.56	22.0	0.0
40	PI/2 BPSK	108	108	20.51	20.60	20.60		
40	PI/2 BPSK	216	0	20.46	20.66	20.53		
40	QPSK	1	1	20.58	20.69	20.59	22.0	0.0
40	QPSK	1	108	20.55	20.66	20.52		
40	QPSK	1	214	20.49	20.64	20.51		
40	QPSK	108	0	20.50	20.64	20.54	22.0	0.0
40	QPSK	108	54	20.54	20.65	20.59		
40	QPSK	108	108	20.50	20.61	20.52		
40	QPSK	216	0	20.53	20.62	20.56	22.0	0.0
40	16QAM	1	1	20.45	20.65	20.57		
40	64QAM	1	1	20.51	20.60	20.59		
40	256QAM	1	1	18.49	18.68	18.44	20.0	2.0
Channel				346000	349000	353000	22.0	0.0
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	20.51	20.60	20.58		
Channel				344500	349000	353500	22.0	0.0
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	20.55	20.64	20.52		
Channel				344000	349000	354000	22.0	0.0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	20.51	20.66	20.49		
Channel				343500	349000	354500	22.0	0.0
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	20.57	20.61	20.58		
Channel				343000	349000	355000	22.0	0.0
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	20.50	20.60	20.49		
Channel				342500	349000	355500	22.0	0.0
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	20.48	20.66	20.48		

n2 other PA Ant 2 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				1860	1880	1900	20.0	0.0
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	18.54	18.60	18.58		
20	PI2 BPSK	1	53	18.55	18.60	18.52		
20	PI2 BPSK	1	104	18.57	18.62	18.56	20.0	0.0
20	PI2 BPSK	50	0	18.52	18.56	18.49		
20	PI2 BPSK	50	28	18.62	18.62	18.50		
20	PI2 BPSK	50	56	18.58	18.59	18.57		
20	PI2 BPSK	100	0	18.59	18.60	18.58	20.0	0.0
20	QPSK	1	1	18.59	18.64	18.59		
20	QPSK	1	53	18.57	18.62	18.53		
20	QPSK	1	104	18.61	18.61	18.58		
20	QPSK	50	0	18.58	18.56	18.54	20.0	0.0
20	QPSK	50	28	18.58	18.62	18.58		
20	QPSK	50	56	18.57	18.57	18.50		
20	QPSK	100	0	18.58	18.61	18.55		
20	16QAM	1	1	18.54	18.55	18.54	20.0	0.0
20	64QAM	1	1	18.60	18.58	18.55		
20	256QAM	1	1	18.54	18.61	18.53		
Channel				371000	372000	373000	20.0	0.0
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	18.51	18.61	18.48		
Channel				371000	376000	381000	20.0	0.0
Frequency (MHz)				1900	1900	1900		
10	QPSK	1	1	18.50	18.62	18.55		
Channel				370500	376000	381500	20.0	0.0
Frequency (MHz)				1862.5	1880	1907.5		
5	QPSK	1	1	18.59	18.60	18.46		

Reduced Power Mode for Other PA DSI2

n7 other PA Ant 2 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	24.5	0.0
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	22.97	22.90	22.92		
50	PI2 BPSK	1	135	22.88	22.96	22.93		
50	PI2 BPSK	1	269	23.01	22.98	22.89	24.0	0.5
50	PI2 BPSK	135	0	22.49	22.55	22.44		
50	PI2 BPSK	135	68	22.93	22.92	22.80		
50	PI2 BPSK	135	135	22.59	22.46	22.48		
50	PI2 BPSK	270	0	22.51	22.46	22.46	24.5	0.0
50	QPSK	1	1	22.96	22.98	22.96		
50	QPSK	1	135	22.99	22.94	22.93		
50	QPSK	1	268	22.99	23.08	22.97		
50	QPSK	135	0	22.07	22.00	21.90	23.5	1.0
50	QPSK	135	68	23.01	23.05	22.88		
50	QPSK	135	135	22.11	21.96	21.86		
50	QPSK	270	0	22.02	22.06	21.99		
50	16QAM	1	1	22.00	22.01	22.02	23.5	1.0
50	64QAM	1	1	20.49	20.54	20.51		
50	256QAM	1	1	18.44	18.61	18.42		
Channel				505000	507000	509000	20.0	0.0
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	22.96	22.92	22.87		
Channel				503000	507000	511000	20.0	0.0
Frequency (MHz)				2510	2535	2555		
30	QPSK	1	1	22.91	22.96	22.92		
Channel				502500	507000	511500	20.0	0.0
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.00	22.88	22.84		
Channel				502000	507000	512000	20.0	0.0
Frequency (MHz)				2510	2535	2550		
20	QPSK	1	1	22.91	22.89	22.91		
Channel				501500	507000	512500	20.0	0.0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.83	22.86	22.91		
Channel				501000	507000	513000	20.0	0.0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.82	22.84	22.81		
Channel				500500	507000	513500	20.0	0.0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.84	22.80	22.81		

n66 other PA Ant 2 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	348000	350000	24.5	0.0
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	23.05	22.88	22.93		
40	PI2 BPSK	1	108	22.91	23.04	22.96		
40	PI2 BPSK	1	214	23.10	23.00	22.87	24.0	0.5
40	PI2 BPSK	108	0	22.47	22.58	22.53		
40	PI2 BPSK	108	54	22.93	22.94	22.87		
40	PI2 BPSK	108	108	22.57	22.44	22.51		
40	PI2 BPSK	216	0	22.59	22.54	22.43	24.5	0.0
40	QPSK	1	1	23.01	23.15	23.04		
40	QPSK	1	108	22.97	22.94	22.91		
40	QPSK	1	214	22.98	22.97	22.94		
40	QPSK	108	0	22.06	22.08	21.92	23.5	1.0
40	QPSK	108	54	23.06	23.12	22.96		
40	QPSK	108	108	22.01	22.04	22.00		
40	QPSK	216	0	22.02	22.19	22.00		
40	16QAM	1	1	22.01	22.09	22.02	23.5	1.0
40	64QAM	1	1	20.51	20.60	20.59		
40	256QAM	1	1	18.49	18.68	18.44		
Channel				345000	349000	353000	20.0	0.0
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.07	23.03	22.99		
Channel				344500	349000	353500	20.0	0.0
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	23.02	23.07	23.01		
Channel				344000	349000	354000	20.0	0.0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.02	23.06	22.90		
Channel				343500	349000	354500	20.0	0.0
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.04	23.04	22.90		
Channel				343000	349000	355000	20.0	0.0
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.01	23.01	22.93		
Channel				342500	349000	355500	20.0	0.0
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.09	22.96	22.90		

n2 other PA Ant 2 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	20.0	0.0
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	18.54	18.60	18.58	20.0	0.0
20	PI2 BPSK	1	53	18.55	18.60	18.52		
20	PI2 BPSK	1	104	18.57	18.62	18.56		
20	PI2 BPSK	50	0	18.52	18.56	18.49	20.0	0.0
20	PI2 BPSK	50	28	18.62	18.62	18.50	20.0	0.0
20	PI2 BPSK	50	56	18.58	18.59	18.57	20.0	0.0
20	PI2 BPSK	100	0	18.59	18.60	18.58		
20	QPSK	1	1	18.59	18.64	18.59	20.0	0.0
20	QPSK	1	53	18.57	18.62	18.53		
20	QPSK	1	104	18.61	18.61	18.58	20.0	0.0
20	QPSK	50	0	18.58	18.56	18.54		
20	QPSK	50	28	18.58	18.62	18.58	20.0	0.0
20	QPSK	50	56	18.57	18.57	18.50	20.0	0.0
20	QPSK	100	0	18.58	18.61	18.55		
20	16QAM	1	1	18.54	18.55	18.54	20.0	0.0
20	64QAM	1	1	18.60	18.58	18.55	20.0	0.0
20	256QAM	1	1	18.54	18.61	18.53	20.0	0.0
Channel				371000	376000	380000	20.0	0.0
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	18.51	18.61	18.48	20.0	0.0
Channel				371000	376000	381000	20.0	0.0
Frequency (MHz)				1900	1900	1900		
10	QPSK	1	1	18.50	18.62	18.55	20.0	0.0
Channel				370500	376000	381500	20.0	0.0
Frequency (MHz)				1862.5	1880	1907.5		
5	QPSK	1	1	18.59	18.60	18.46	20.0	0.0

Reduced Power Mode for Other PA DSI3

n7 other PA Ant 2 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	24.5	0.0
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	22.97	22.90	22.92	24.5	0.0
50	PI2 BPSK	1	135	22.88	22.96	22.93		
50	PI2 BPSK	1	269	23.01	22.98	22.89		
50	PI2 BPSK	135	0	22.49	22.55	22.44	24.0	0.5
50	PI2 BPSK	135	68	22.93	22.92	22.80	24.5	0.0
50	PI2 BPSK	135	135	22.59	22.46	22.48	24.0	0.5
50	PI2 BPSK	270	0	22.51	22.46	22.46		
50	QPSK	1	1	22.96	22.98	22.96	24.5	0.0
50	QPSK	1	135	22.99	22.94	22.93		
50	QPSK	1	268	22.99	23.08	22.97	23.5	1.0
50	QPSK	135	0	22.07	22.00	21.90		
50	QPSK	135	68	23.01	23.05	22.88	24.5	0.0
50	QPSK	135	135	22.11	21.96	21.86	23.5	1.0
50	QPSK	270	0	22.02	22.06	21.99		
50	16QAM	1	1	22.00	22.01	22.02	23.5	1.0
50	64QAM	1	1	20.49	20.54	20.51	22.0	2.5
50	256QAM	1	1	18.44	18.61	18.42	20.0	4.5
Channel				504000	507000	509000	24.5	0.0
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	22.96	22.92	22.87	24.5	0.0
Channel				503000	507000	511000	24.5	0.0
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.91	22.96	22.92	24.5	0.0
Channel				502500	507000	511500	24.5	0.0
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.00	22.88	22.84	24.5	0.0
Channel				502000	507000	512000	24.5	0.0
Frequency (MHz)				2510	2535	2550		
20	QPSK	1	1	22.91	22.89	22.91	24.5	0.0
Channel				501500	507000	512500	24.5	0.0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.93	22.86	22.91	24.5	0.0
Channel				501000	507000	513000	24.5	0.0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.92	22.94	22.81	24.5	0.0
Channel				500500	507000	513500	24.5	0.0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.94	22.90	22.81	24.5	0.0

n66 other PA Ant 2 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000	24.5	0.0
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	23.05	22.88	22.93	24.5	0.0
40	PI2 BPSK	1	108	22.91	23.04	22.96		
40	PI2 BPSK	1	214	23.10	23.00	22.87		
40	PI2 BPSK	108	0	22.47	22.58	22.53	24.0	0.5
40	PI2 BPSK	108	54	22.93	22.94	22.87	24.5	0.0
40	PI2 BPSK	108	108	22.57	22.44	22.51	24.0	0.5
40	PI2 BPSK	216	0	22.59	22.54	22.43		
40	QPSK	1	1	23.01	23.15	23.04	24.5	0.0
40	QPSK	1	108	22.97	22.94	22.91		
40	QPSK	1	214	22.96	22.97	22.94	23.5	1.0
40	QPSK	108	0	22.06	22.08	21.92		
40	QPSK	108	54	23.06	23.12	22.96	24.5	0.0
40	QPSK	108	108	22.01	22.04	22.00	23.5	1.0
40	QPSK	216	0	22.02	22.19	22.00		
40	16QAM	1	1	22.01	22.09	22.02	23.5	1.0
40	64QAM	1	1	20.51	20.60	20.59	22.0	2.5
40	256QAM	1	1	18.49	18.68	18.44	20.0	4.5
Channel				345000	349000	353000	24.5	0.0
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.07	23.03	22.99	24.5	0.0
Channel				344500	349000	353500	24.5	0.0
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	23.02	23.07	23.01	24.5	0.0
Channel				344000	349000	354000	24.5	0.0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.02	23.06	22.90	24.5	0.0
Channel				343500	349000	354500	24.5	0.0
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.04	23.04	22.90	24.5	0.0
Channel				343000	349000	355000	24.5	0.0
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.01	23.01	22.93	24.5	0.0
Channel				342500	349000	355500	24.5	0.0
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.09	22.96	22.90	24.5	0.0

n2 other PA Ant 2 DSI 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				375000	376000	380000	20.0	0.0
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	18.54	18.60	18.58		
20	PI2 BPSK	1	53	18.55	18.60	18.52	20.0	0.0
20	PI2 BPSK	1	104	18.57	18.62	18.56		
20	PI2 BPSK	50	0	18.52	18.56	18.49		
20	PI2 BPSK	50	28	18.62	18.62	18.50	20.0	0.0
20	PI2 BPSK	50	56	18.58	18.59	18.57		
20	PI2 BPSK	100	0	18.59	18.60	18.58		
20	QPSK	1	1	18.59	18.64	18.59	20.0	0.0
20	QPSK	1	53	18.57	18.62	18.53		
20	QPSK	1	104	18.61	18.61	18.58		
20	QPSK	50	0	18.58	18.56	18.54	20.0	0.0
20	QPSK	50	28	18.58	18.62	18.58		
20	QPSK	50	56	18.57	18.57	18.50		
20	QPSK	100	0	18.58	18.61	18.55	20.0	0.0
20	16QAM	1	1	18.54	18.55	18.54		
20	64QAM	1	1	18.60	18.58	18.55		
20	256QAM	1	1	18.54	18.61	18.53	20.0	0.0
Channel				371000	372000	385000		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	18.51	18.61	18.48	20.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1900		
10	QPSK	1	1	18.50	18.62	18.55	20.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	18.59	18.60	18.46	20.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1857.5	1880	1902.5		

Reduced Power Mode for Other PA DSI 4

n7 other PA Ant 2 DSI 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	21.5	0.0
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	19.83	19.92	19.78		
50	PI2 BPSK	1	135	19.85	19.87	19.80	21.5	0.0
50	PI2 BPSK	1	269	19.83	19.84	19.76		
50	PI2 BPSK	135	0	19.76	19.86	19.79		
50	PI2 BPSK	135	68	19.79	19.86	19.79	21.5	0.0
50	PI2 BPSK	135	135	19.87	19.92	19.75		
50	PI2 BPSK	270	0	19.84	19.84	19.75		
50	QPSK	1	1	19.93	20.01	19.84	21.5	0.0
50	QPSK	1	135	19.99	20.02	19.83		
50	QPSK	1	268	20.01	20.06	19.98		
50	QPSK	135	0	19.97	20.04	19.84	21.5	0.0
50	QPSK	135	68	19.96	19.98	19.84		
50	QPSK	135	135	19.92	19.95	19.85		
50	QPSK	270	0	19.89	19.97	19.88	21.5	0.0
50	16QAM	1	1	19.77	19.92	19.84		
50	64QAM	1	1	19.81	19.85	19.76		
50	256QAM	1	1	19.88	19.87	19.76	20.0	1.5
Channel				503000	502000	510000		
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	19.83	19.90	19.83	21.5	0.0
Channel				503000	507000	511000		
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	19.84	19.92	19.76	21.5	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	19.77	19.86	19.80	21.5	0.0
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2550		
20	QPSK	1	1	19.87	19.88	19.83	21.5	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2552.5		
15	QPSK	1	1	19.87	19.87	19.83	21.5	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2558		
10	QPSK	1	1	19.80	19.84	19.79	21.5	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2557.5		
5	QPSK	1	1	19.77	19.86	19.76	21.5	0.0
Channel				500000	507000	514000		
Frequency (MHz)				2500	2535	2560		

n66 other PA Ant 2 DSI 4

BW [MHz]	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	346000	346000	24.5	0.0
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	23.05	22.88	22.93		
40	PI2 BPSK	1	108	22.91	23.04	22.96	24.5	0.0
40	PI2 BPSK	1	214	23.10	23.00	22.87		
40	PI2 BPSK	108	0	22.47	22.98	22.53		
40	PI2 BPSK	108	54	22.93	22.94	22.87	24.5	0.0
40	PI2 BPSK	108	108	22.57	22.44	22.51		
40	PI2 BPSK	216	0	22.59	22.54	22.43		
40	QPSK	1	1	23.01	23.15	23.04	24.5	0.0
40	QPSK	1	108	22.97	22.94	22.91		
40	QPSK	1	214	22.98	22.97	22.94		
40	QPSK	108	0	22.06	22.08	21.92	23.5	1.0
40	QPSK	108	54	23.06	23.12	22.96		
40	QPSK	108	108	22.01	22.04	22.00		
40	QPSK	216	0	22.02	22.19	22.00	23.5	1.0
40	16QAM	1	1	22.01	22.09	22.02		
40	64QAM	1	1	20.51	20.60	20.59		
40	256QAM	1	1	18.49	18.68	18.44	20.0	4.5
Channel				345000	345000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.07	23.03	22.99	24.5	0.0
Channel				344500	349000	353500		
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	23.02	23.07	23.01	24.5	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.02	23.06	22.90	24.5	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.04	23.04	22.90	24.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.01	23.01	22.93	24.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.09	22.96	22.90	24.5	0.0
Channel				342000	349000	356000		
Frequency (MHz)				1710	1745	1780		

2.4GHz WLAN			Ant 6 Full power		Ant 6 Head Staircase		Ant 6 Head Simultaneous		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle
802.11b 1Mbps	1	2412	14.92	15.50	14.92	15.50	13.51	14.50	100.00
	6	2437	15.06	15.00	16.62	17.50	13.57	14.50	
	11	2462	14.96	15.50	14.98	15.50	13.52	14.50	
	2	2417	15.72	16.50	14.72	15.50	13.71	14.50	
	7	2442	15.96	15.50	14.87	15.50	13.55	14.50	
	9	2452	15.53	16.50	14.90	15.50	13.56	14.50	
	10	2457	14.88	15.50	14.88	15.50	13.54	14.50	
	1	2412	16.26	17.00		17.00		14.50	
	6	2437	17.62	18.50		17.50		14.50	
	11	2462	17.03	18.00		17.50		14.50	
802.11g 6Mbps	1	2412	16.26	17.00		17.50		14.50	96.95
	6	2437	17.63	18.50		17.50		14.50	
802.11n-HT20 MCS0	1	2412	17.43	18.00	Not Required		Not Required		96.77
	6	2437	17.63	18.50		17.50		14.50	
802.11n-HT40 MCS0	1	2412	17.43	18.00		17.50		14.50	95.89
	6	2437	15.07	16.00		16.00		14.50	
802.11ax-HE20 MCS0	1	2412	16.71	17.50		17.50		14.50	95.89
	11	2462	15.70	16.50		16.50		14.50	

5.2GHz WLAN			Ant 6 Full power		Ant 6 Head Staircase		Ant 6 Head Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle	
802.11a 6Mbps	36	5180	16.98	17.50		15.00		11.00	96.97	
	40	5200	17.02	18.00		15.00		11.00		
	44	5220	16.91	17.50		15.00		11.00		
	48	5240	16.89	17.50		15.00		11.00		
	36	5180	16.02	17.00	Not Required				96.77	
	40	5200	15.91	16.50				11.00		
	44	5220	16.00	17.00				11.00		
	48	5240	15.79	16.50				11.00		
	36	5190	14.11	15.00	14.11		Not Required		93.87	
	40	5230	15.08	16.00	14.17			11.00		
	36	5190	16.98	17.00		15.00		11.00		
	40	5200	15.96	16.50				11.00		
802.11ac-VHT20 MCS0	44	5220	16.06	17.00		15.00		11.00	96.76	
	48	5240	15.85	16.50				11.00		
	36	5190	15.90	16.50		15.00		11.00		
	40	5230	15.80	16.50				11.00		
	48	5250	15.80	16.50					93.75	
	42	5210	13.40	14.00		14.00	10.35	11.00		
	36	5180	16.18	17.00	Not Required			11.00		
	40	5200	16.07	17.00				11.00		
	802.11ax-HE20 MCS0	44	5220	16.14	17.00		15.00		11.00	95.89
		48	5240	15.94	16.50			Not Required	11.00	
		36	5190	14.24	15.00		15.00		11.00	
		40	5230	15.17	16.00				11.00	
802.11ax-HE40 MCS0	48	5250	15.17	16.00					92.46	
	42	5210	13.57	14.50		14.50		11.00		

5.3GHz WLAN			Ant 6 Full power		Ant 6 Head Staircase		Ant 6 Head Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle	
802.11a 6Mbps	52	5280	16.88	17.50			15.00	11.00	96.97	
	56	5280	16.90	17.50			15.00	11.00		
	60	5300	16.96	18.00			15.00	11.00		
	64	5320	16.82	17.50			15.00	11.00		
	802.11n-HT20 MCS0	52	5280	15.72	16.50	Not Required			11.00	96.77
		56	5280	15.93	16.50			15.00	11.00	
		60	5300	15.87	16.50			15.00	11.00	
		64	5320	15.84	16.50			15.00	11.00	
	802.11n-HT40 MCS0	56	5270	15.01	16.00	14.15		Not Required		93.87
		62	5310	14.52	15.50	14.13		15.00	11.00	
		52	5280	15.79	16.50			15.00	11.00	
		56	5280	15.95	16.50			15.00	11.00	
802.11ac-VHT20 MCS0	60	5300	15.90	16.50				11.00	96.76	
	64	5320	15.87	16.50				11.00		
	56	5270	15.88	16.50				11.00		
	62	5310	15.84	16.50				11.00		
802.11ac-VHT40 MCS0	58	5290	12.70	13.50	Not Required		10.47	11.00	88.19	
	52	5280	15.86	16.50				11.00		
	56	5280	16.04	17.00				11.00		
	60	5300	16.00	17.00				11.00		
802.11ax-HE20 MCS0	64	5320	15.97	16.50			Not Required		95.89	
	56	5280	15.97	16.50			15.00	11.00		
	54	5270	15.12	16.00			15.00	11.00		
	62	5310	14.65	15.50			15.00	11.00		
802.11ax-HE40 MCS0	58	5290	12.84	13.50			15.00	11.00	88.84	
	52	5280	12.84	13.50						

5.5GHz WLAN			Ant 6 Full power		Ant 6 Head Staircase		Ant 6 Head Simultaneous		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle
802.11a 6Mbps	100	5500	16.88	17.00		14.00		10.00	96.97
	116	5580	17.06	18.00		14.00		10.00	
	124	5620	17.16	18.00		14.00		10.00	
	132	5660	17.09	18.00		14.00		10.00	
	140	5700	12.49	13.00		13.00		10.00	
	144	5720	17.22	18.00		14.00		10.00	
	100	5500	15.88	16.50		14.00		10.00	
	116	5580	16.13	17.00		14.00		10.00	
802.11n-HT20 MCS0	124	5620	16.18	17.00		14.00		10.00	96.77
	132	5660	16.01	17.00		14.00		10.00	
	140	5700	11.50	12.50		12.50		10.00	
	144	5720	16.19	17.00		14.00		10.00	
802.11n-HT40 MCS0	100	5500	13.80	14.50		14.00		10.00	93.67
	110	5550	14.77	15.50	Not Required	14.00	Not Required	10.00	
	126	5630	15.20	16.00		14.00		10.00	
	134	5670	15.23	16.00		14.00		10.00	
	142	5710	15.30	16.00		14.00		10.00	
	100	5500	15.94	16.50		14.00		10.00	
	116	5580	16.17	17.00		14.00		10.00	
	124	5620	16.20	17.00		14.00		10.00	
802.11ac-VHT20 MCS0	132	5660	16.06	17.00		14.00		10.00	96.76
	140	5700	11.58	12.50		12.50		10.00	
	144	5720	16.22	17.00		14.00		10.00	
	102	5510	15.71	16.50		14.00		10.00	
	110	5550	15.76	16.50		14.00		10.00	
	126	5630	16.03	17.00		14.00		10.00	
	134	5670	15.94	16.50		14.00		10.00	
	142	5710	16.14	17.00		14.00		10.00	
802.11ac-VHT80 MCS0	106	5530	13.30	14.00	13.03	14.00	9.31	10.00	88.19
	122	5610	14.15	15.00	13.28	14.00	9.45	10.00	
	138	5690	14.01	15.00	13.14	14.00	9.38	10.00	
	100	5500	16.06	17.00		14.00		10.00	
	116	5580	16.24	17.00		14.00		10.00	
	124	5620	16.29	17.00		14.00		10.00	
	132	5660	16.16	17.00		14.00		10.00	
	140	5700	11.64	12.50		12.50		10.00	
802.11ax-HE20 MCS0	144	5720	16.29	17.00		14.00		10.00	95.89
	102	5510	13.94	14.50		14.00		10.00	
	110	5550	14.88	15.50	Not Required	14.00	Not Required	10.00	
	126	5630	15.30	16.00		14.00		10.00	
	134	5670	15.35	16.00		14.00		10.00	
	142	5710	15.40	16.00		14.00		10.00	
	106	5530	13.43	14.00		14.00		10.00	
	122	5610	14.24	15.00		14.00		10.00	
802.11ax-HE80 MCS0	138	5690	14.13	15.00		14.00		10.00	88.84
	100	5500	16.08	17.00		14.00		10.00	

||
||
||

BT BR/EDR		ANT 6				
Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	9.59	7.22	7.36	11.00
	CH 39	2441	7.72	5.06	5.33	9.00
	CH 78	2480	10.82	8.83	8.54	12.00

BLE_1M		ANT 6				
Mode	Channel	Frequency (MHz)	Average power (dBm)			
LE	CH 00	2402	6.25			
	CH 19	2440	6.91			
	CH 39	2480	6.06			
Tune-up Limit			8.00			

BLE_2M		ANT 6				
Mode	Channel	Frequency (MHz)	Average power (dBm)			
LE	CH 00	2402	6.09			
	CH 19	2440	7.06			
	CH 39	2480	6.04			
Tune-up Limit			8.50			



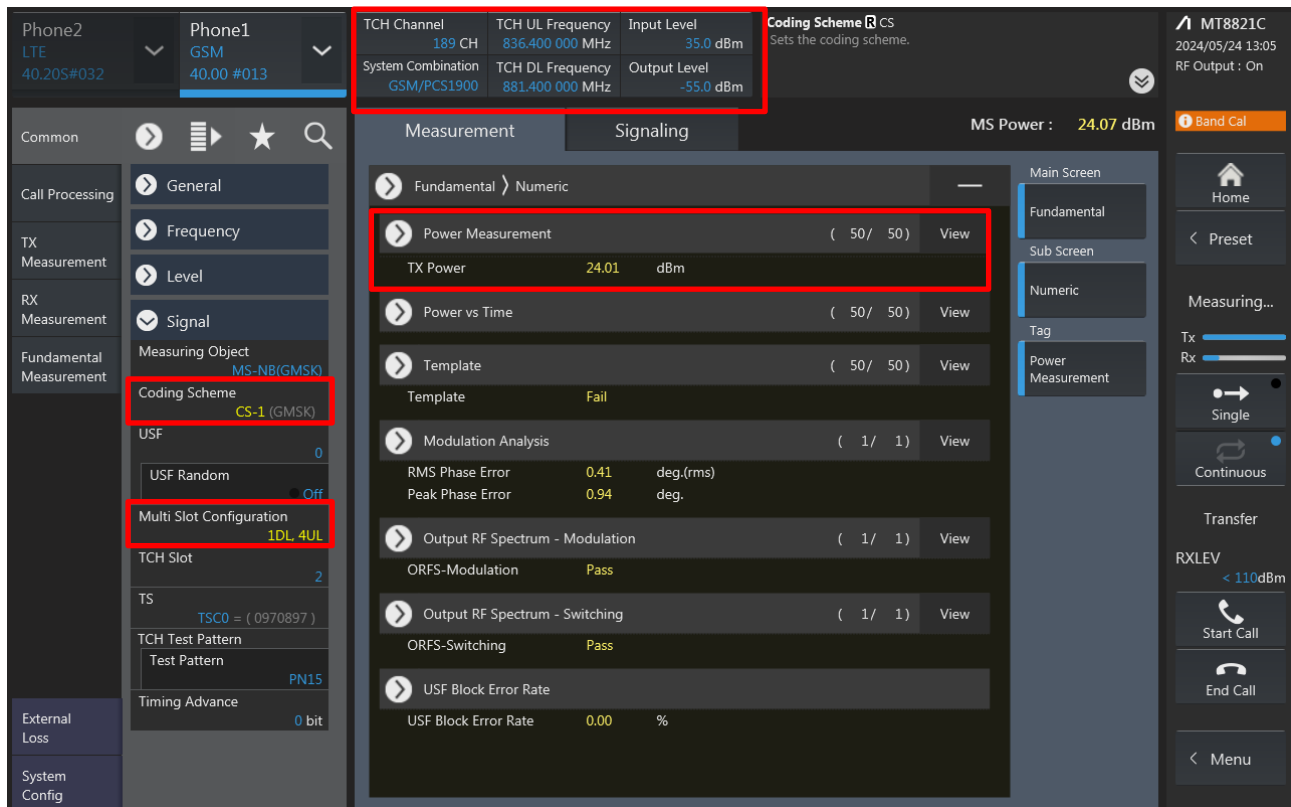
Appendix F. Power measurement connection diagram and Carrier Aggregation Conducted RF Output Power Table

The detailed Power measurement connection diagram and Carrier Aggregation Conducted power table are shown as follows.

Power measurement connection diagram:

The power measurement for 2G/3G/LTE/5G FR1/UL and DL CA is to establish a connection between device and call box, and via call box to configure Bands, channel, BWs, RB size, carrier aggregation of CA, frequency channels, SCS and maximum output power. Hereunder is screenshot call box connection information for 2G/3G/LTE/5G FR1/UL and DL CA.

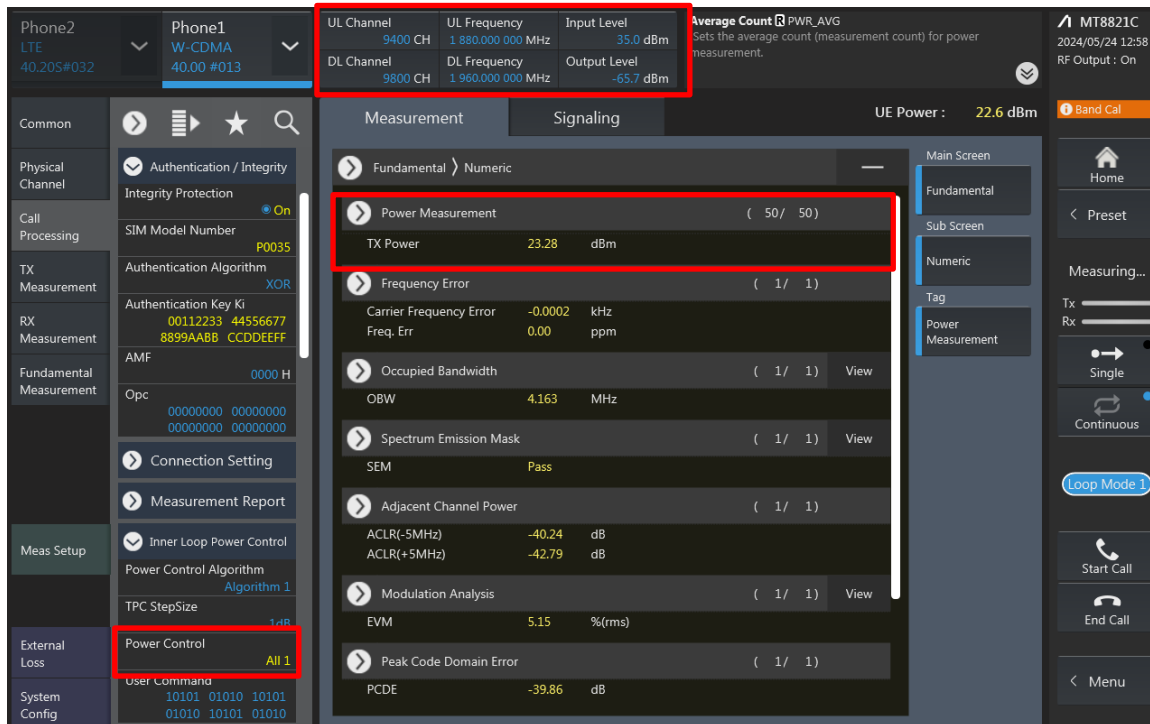
<GSM>



The screenshot displays the SPORTON LAB. software interface for GSM power measurement. The interface is divided into several sections:

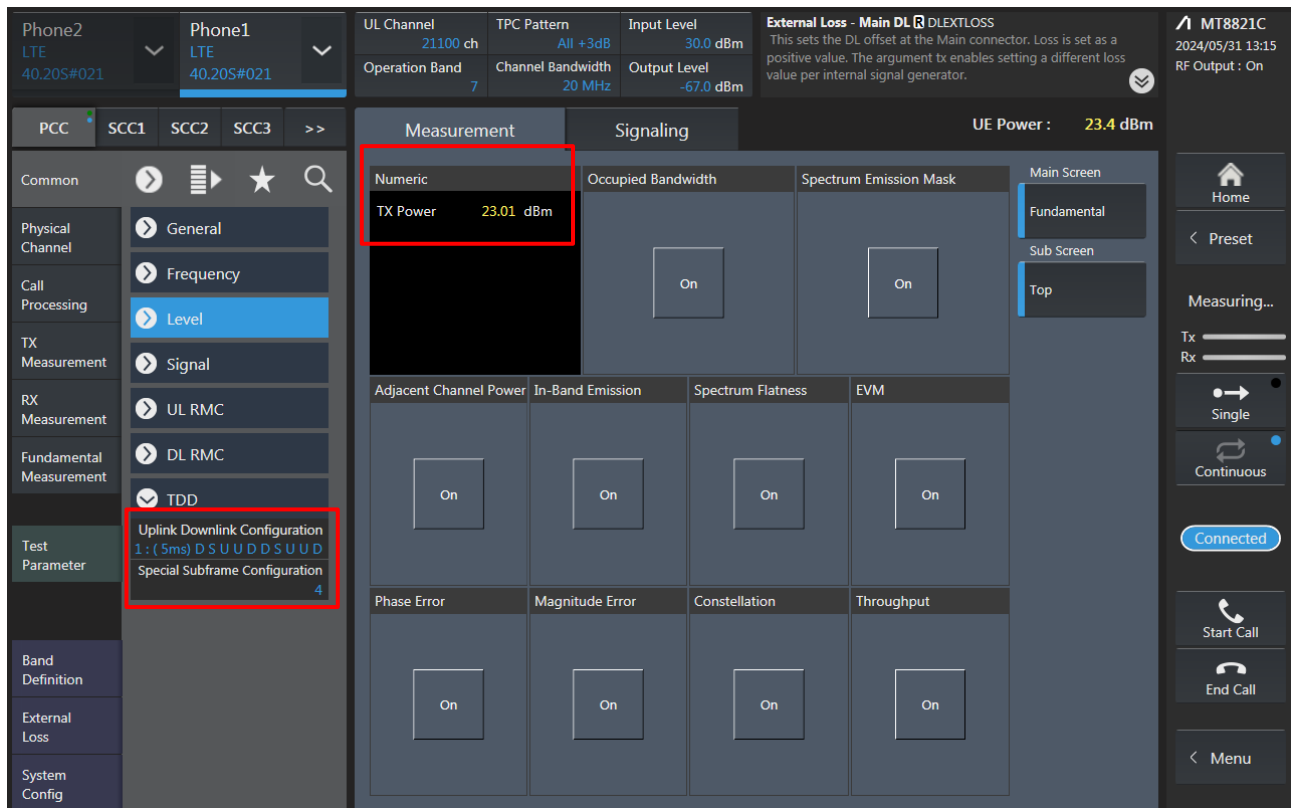
- Top Bar:** Shows Phone2 (LTE, 40.205#032) and Phone1 (GSM, 40.00 #013). It also displays TCH Channel (189 CH), TCH UL Frequency (836.400 000 MHz), Input Level (35.0 dBm), TCH DL Frequency (881.400 000 MHz), and Output Level (-55.0 dBm). The Coding Scheme is set to CS.
- Left Sidebar:** Contains navigation options like Common, Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, and External Loss. The 'Fundamental Measurement' section is expanded, showing 'Coding Scheme' (CS-1 (GMSK)) and 'Multi Slot Configuration' (1DL, 4UL).
- Main Area:** Displays 'Measurement' and 'Signaling' tabs. The 'Measurement' tab is active, showing 'Fundamental' and 'Numeric' views. The 'Power Measurement' section is highlighted, showing 'TX Power' (24.01 dBm). Other measurements include 'Power vs Time', 'Template', 'Modulation Analysis', 'Output RF Spectrum - Modulation', 'Output RF Spectrum - Switching', and 'USF Block Error Rate'.
- Right Sidebar:** Shows 'MT8821C' with the date/time '2024/05/24 13:05' and 'RF Output : On'. It also includes a 'Band Cal' button and a 'Main Screen' section with 'Fundamental', 'Sub Screen', 'Numeric', and 'Tag' options.

<WCDMA>



The screenshot displays the WCDMA measurement interface. The top section shows the configuration for Phone1 (W-CDMA, 40.00 #013) and Phone2 (LTE, 40.20S#032). The main measurement area is divided into two tabs: Measurement and Signaling. The Measurement tab is active, showing various metrics such as TX Power (23.28 dBm), Frequency Error (-0.0002 kHz), Occupied Bandwidth (4.163 MHz), Spectrum Emission Mask (Pass), Adjacent Channel Power (ACLR(-5MHz) -40.24 dB, ACLR(+5MHz) -42.79 dB), Modulation Analysis (EVM 5.15 %), and Peak Code Domain Error (PCDE -39.86 dB). The Signaling tab is also visible, showing the Average Count (PWR_AVG) and UE Power (22.6 dBm). The bottom section contains various settings and controls, including Authentication/Integrity, Connection Setting, Measurement Report, Inner Loop Power Control, and Power Control (All 1).

<LTE>



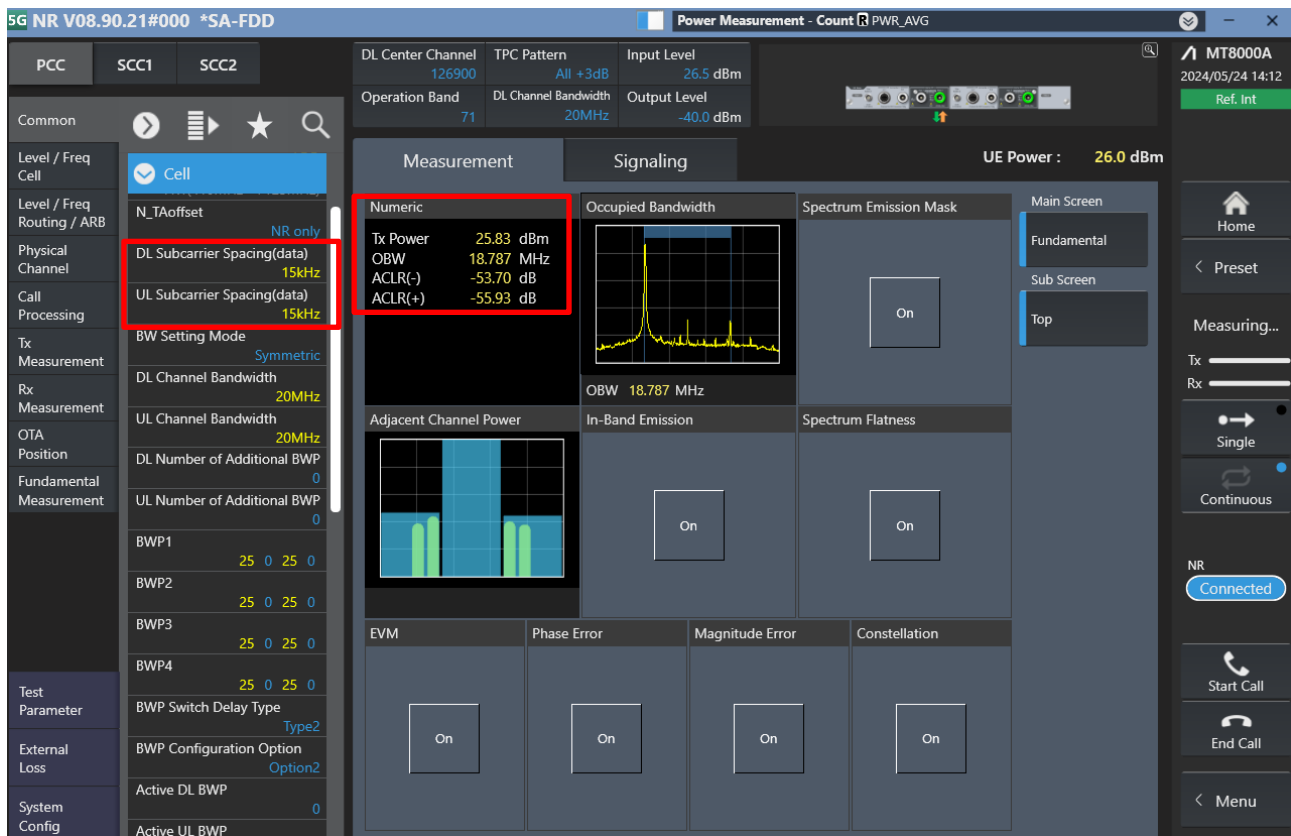
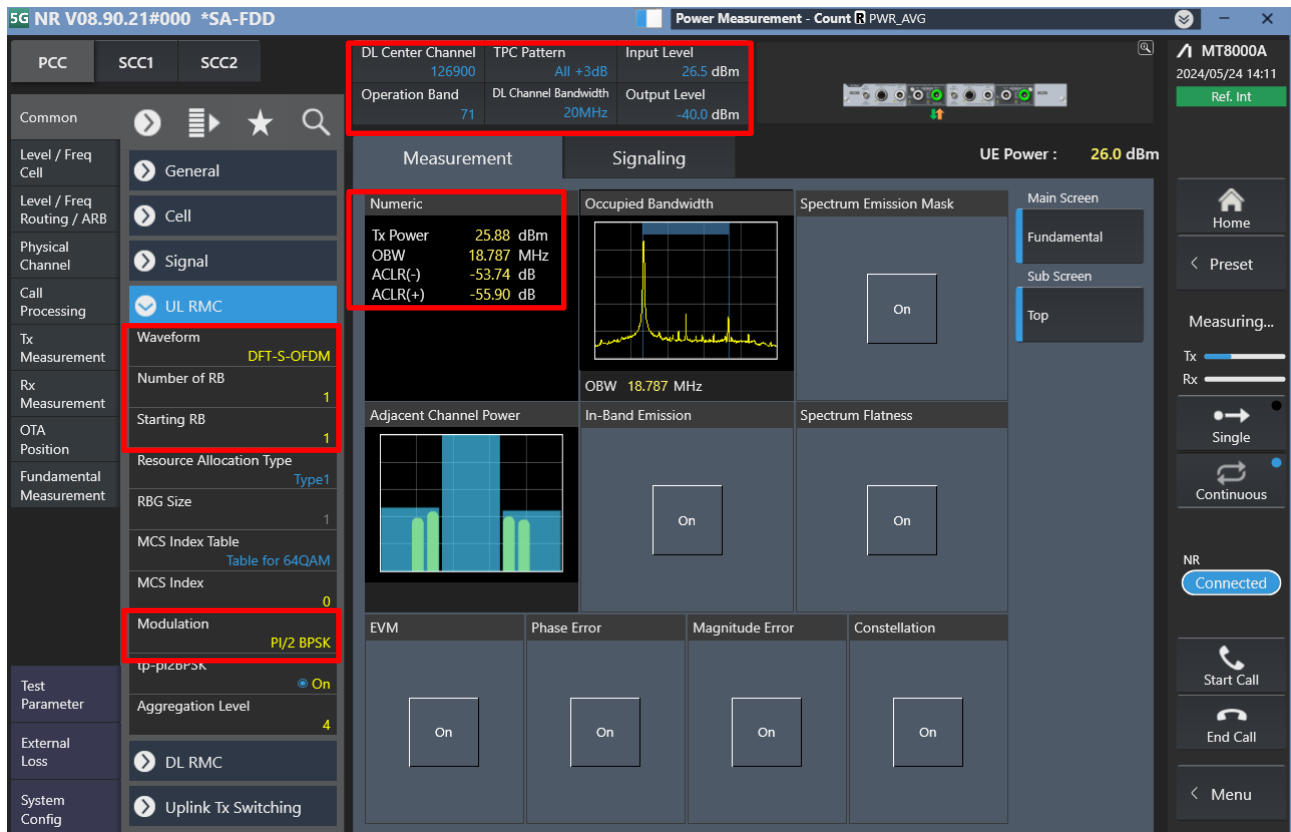
The screenshot displays the LTE measurement interface. The top section shows the configuration for Phone1 (LTE, 40.20S#021) and Phone2 (LTE, 40.20S#021). The main measurement area is divided into two tabs: Measurement and Signaling. The Measurement tab is active, showing various metrics such as TX Power (23.01 dBm), Occupied Bandwidth, Spectrum Emission Mask, Adjacent Channel Power, In-Band Emission, Spectrum Flatness, EVM, Phase Error, Magnitude Error, Constellation, and Throughput. The Signaling tab is also visible, showing the External Loss - Main DL (DLEXTLOSS) and UE Power (23.4 dBm). The bottom section contains various settings and controls, including General, Frequency, Level, Signal, UL RMC, DL RMC, TDD, Uplink Downlink Configuration (1: (5ms) D S U U D D S U U D), Special Subframe Configuration (4), Band Definition, External Loss, and System Config.

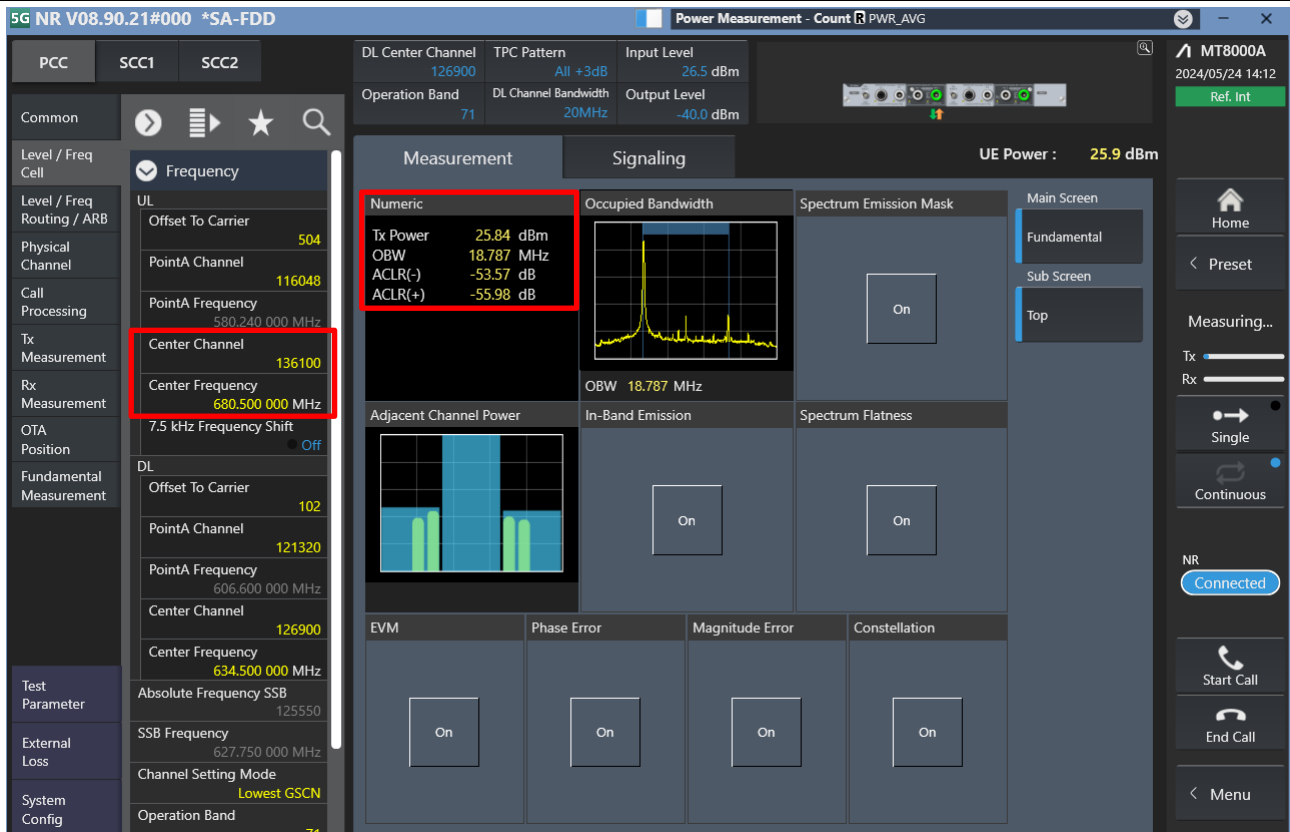
<LTE TDD Power class 3>

The screenshot displays the MT8821C software interface, specifically the TDD Special Subframe Configuration screen. The interface is divided into several sections:

- Top Status Bar:** Shows phone information (Phone2, Phone1, 40.20S#021), UL Channel (40620 ch), TPC Parameter (All +3dB), Input Level (30.0 dBm), and TDD - Special Subframe Configuration (TDDSSFCNF). It also displays the date and time (2024/05/31 12:29) and RF Output (On).
- Left Sidebar:** Contains navigation options: PCC, SCC1, SCC2, SCC3, Common, Physical Channel, Call Processing, TX Measurement, RX Measurement, Fundamental Measurement, Test Parameter, Band Definition, External Loss, and System Config.
- Main Display Area:** Features a grid of measurement and signaling parameters. The "TDD Special Subframe Configuration" section is highlighted with a red box, showing "Uplink Downlink Configuration 0: (5ms) D S U U U D S U U U" and "Special Subframe Configuration 5".
- Right Panel:** Includes a "Main Screen" section with "Fundamental", "Sub Screen", and "Top" options. It also shows "Occupied Bandwidth", "Spectrum Emission Mask", "Adjacent Channel Power", "In-Band Emission", "Spectrum Flatness", "EVM", "Phase Error", "Magnitude Error", "Constellation", and "Throughput".
- Bottom Bar:** Displays "Connected" status and buttons for "Start Call", "End Call", and "Menu".

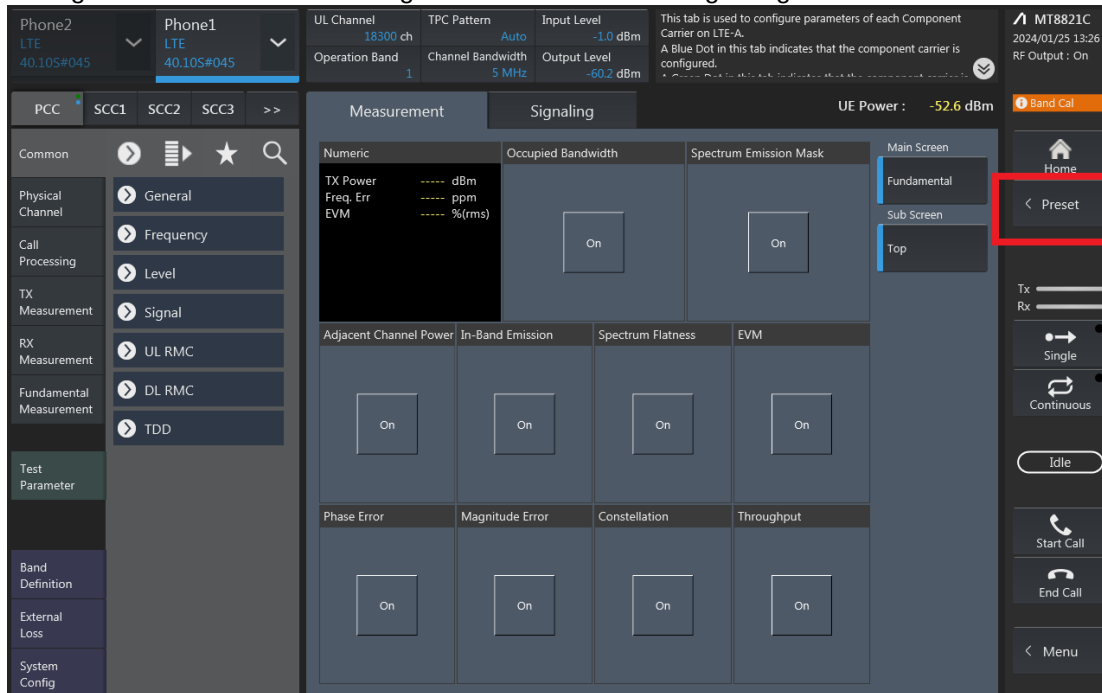
<5G NR FR1>





LTE Uplink and Downlink Carrier Aggregation configurations:

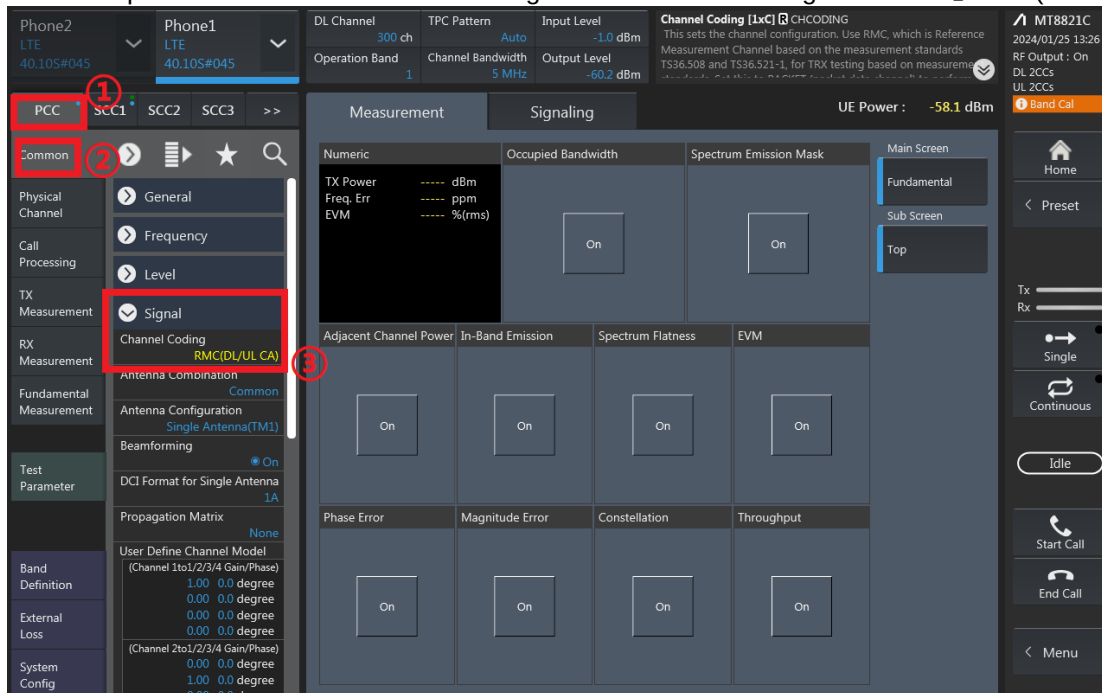
1. Change the Scenario in the Configuration of Phone1 LTE Signaling and Preset.



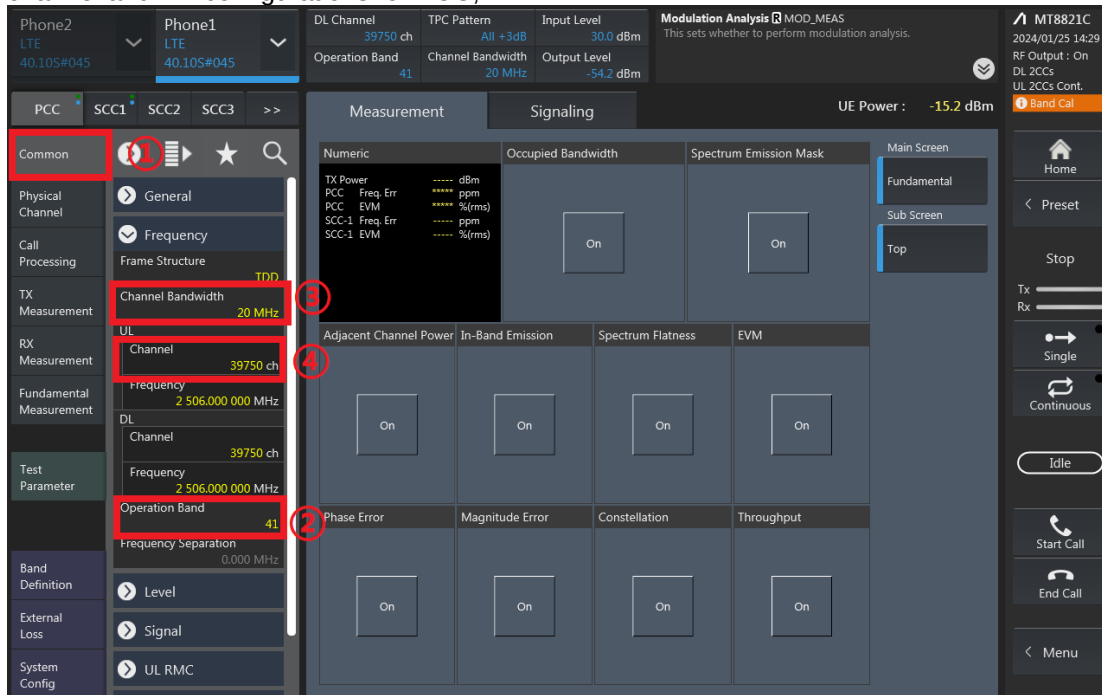
2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation; If Select "RMC (DL CA)" for Downlink Carrier Aggregation.

For example, Uplink Carrier Aggregation:

Detailed operation: PCC → Common → Signal → Channel Coding → Select 【RMC (DL/UL CA)】



3. PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



Phone2 LTE 40.10S#045 Phone1 LTE 40.10S#045

DL Channel 39750 ch TPC Pattern All +3dB Input Level 30.0 dBm Modulation Analysis MOD_MEAS This sets whether to perform modulation analysis.

Operation Band 41 Channel Bandwidth 20 MHz Output Level -54.2 dBm

MT8821C 2024/01/25 14:29 RF Output : On DL 2CCs UL 2CCs Cont.

PCC SCC1 SCC2 SCC3 >>

Measurement Signaling UE Power : -15.2 dBm

Common 1

Physical Channel General

Call Processing Frequency

TX Measurement Channel Bandwidth 20 MHz 3

RX Measurement Channel 39750 ch 4

Fundamental Measurement Frequency 2 506.000 000 MHz

Test Parameter Channel 39750 ch Frequency 2 506.000 000 MHz Operation Band 41 2

Frequency Separation 0.000 MHz

Band Definition Level

External Loss Signal

System Config UL RMC

Numeric Occupied Bandwidth Spectrum Emission Mask

TX Power PCC Freq. Err. dBm PPM PCC EVM % (rms) SCC-1 Freq. Err. PPM SCC-1 EVM % (rms)

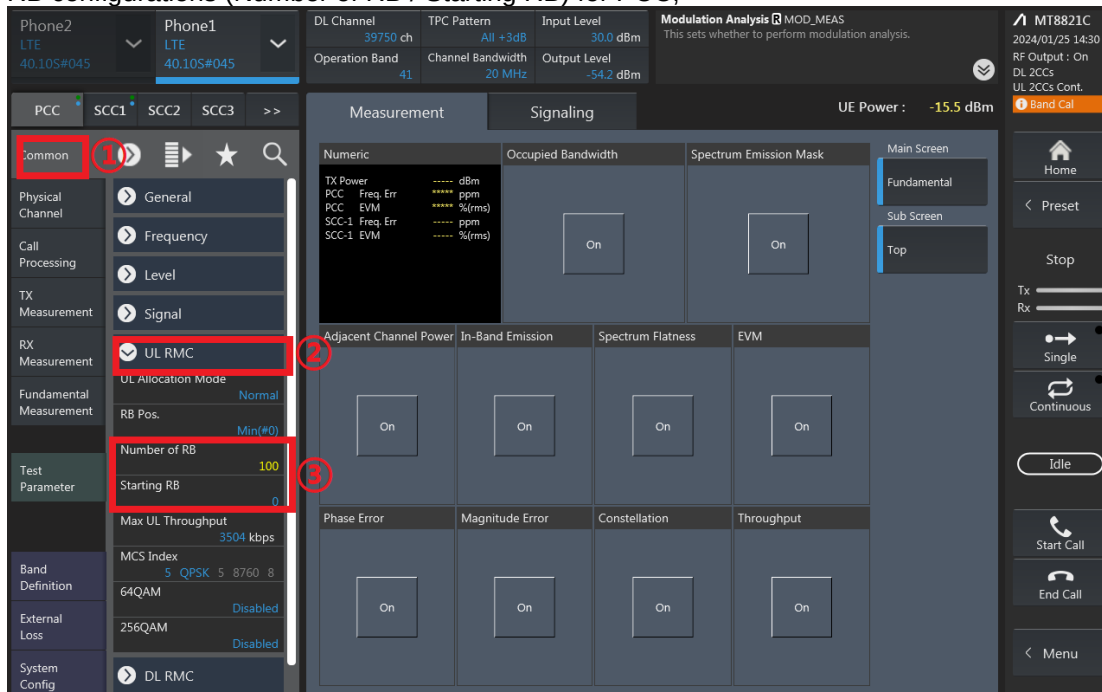
Adjacent Channel Power In-Band Emission Spectrum Flatness EVM

Phase Error Magnitude Error Constellation Throughput

Main Screen Fundamental Sub Screen Top

Home Preset Stop Tx Rx Single Continuous Idle Start Call End Call Menu

RB configurations (Number of RB / Starting RB) for PCC;



Phone2 LTE 40.10S#045 Phone1 LTE 40.10S#045

DL Channel 39750 ch TPC Pattern All +3dB Input Level 30.0 dBm Modulation Analysis MOD_MEAS This sets whether to perform modulation analysis.

Operation Band 41 Channel Bandwidth 20 MHz Output Level -54.2 dBm

MT8821C 2024/01/25 14:30 RF Output : On DL 2CCs UL 2CCs Cont.

PCC SCC1 SCC2 SCC3 >>

Measurement Signaling UE Power : -15.5 dBm

Common 1

Physical Channel General

Call Processing Frequency

TX Measurement Level

RX Measurement Signal

Fundamental Measurement UL RMC 2

UL Allocation Mode Normal

RB Pos. Min(#0)

Test Parameter Number of RB 100 3

Starting RB 0

Max UL Throughput 3504 kbps

Band Definition MCS Index 5 QPSK 5 8760 8

External Loss 64QAM Disabled

System Config 256QAM Disabled DL RMC

Numeric Occupied Bandwidth Spectrum Emission Mask

TX Power PCC Freq. Err. dBm PPM PCC EVM % (rms) SCC-1 Freq. Err. PPM SCC-1 EVM % (rms)

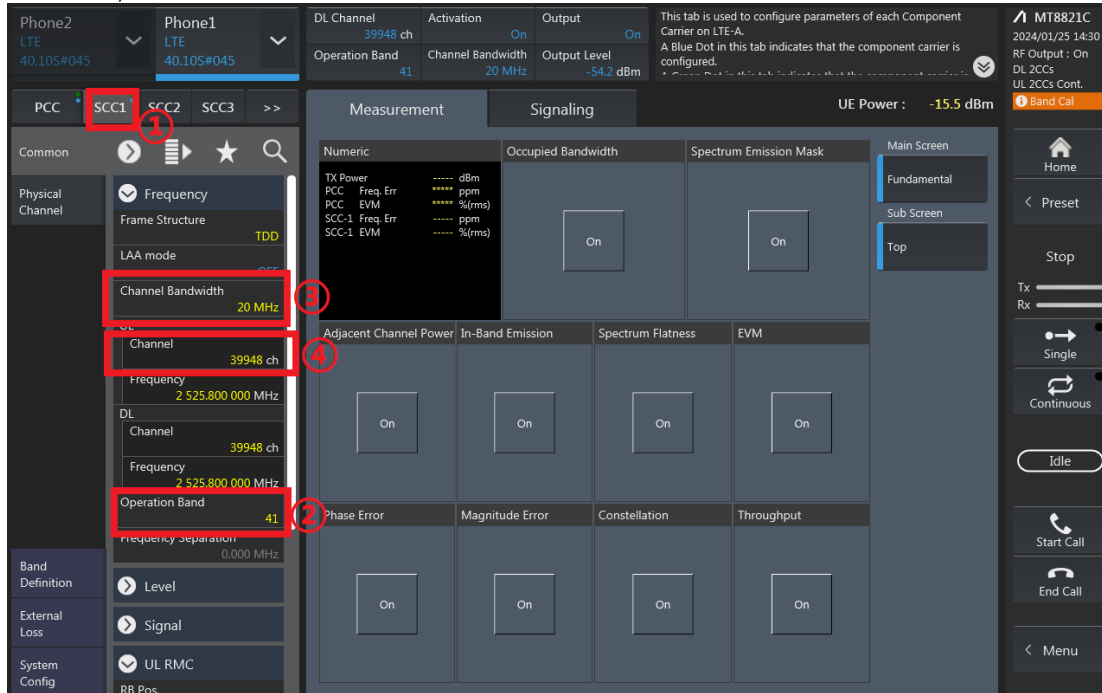
Adjacent Channel Power In-Band Emission Spectrum Flatness EVM

Phase Error Magnitude Error Constellation Throughput

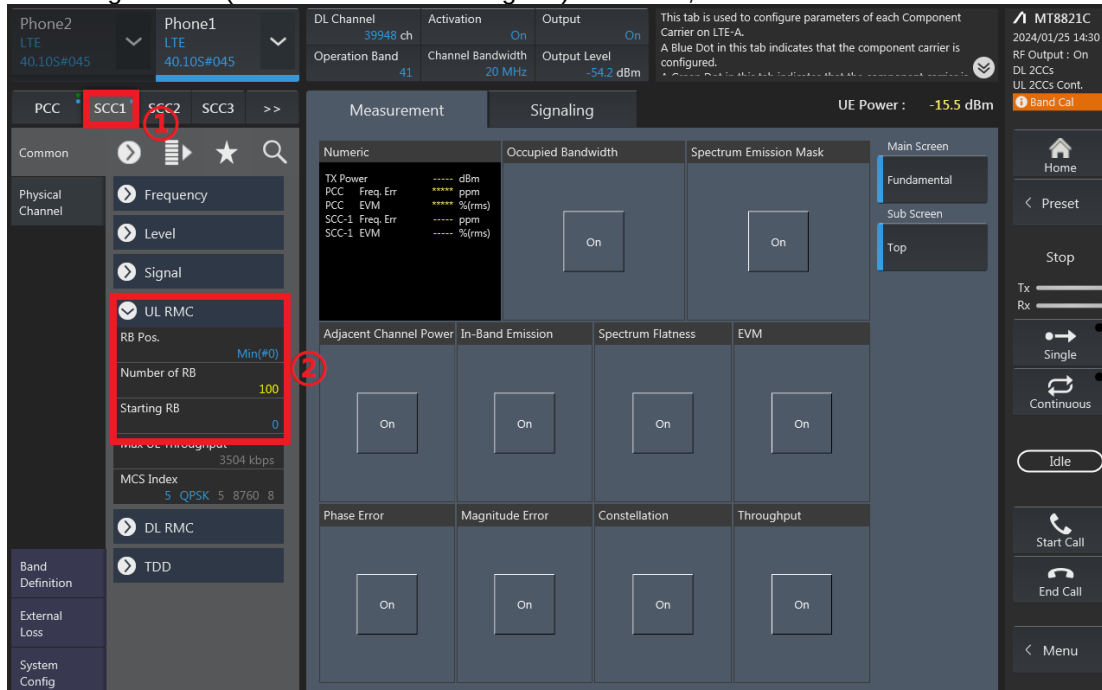
Main Screen Fundamental Sub Screen Top

Home Preset Stop Tx Rx Single Continuous Idle Start Call End Call Menu

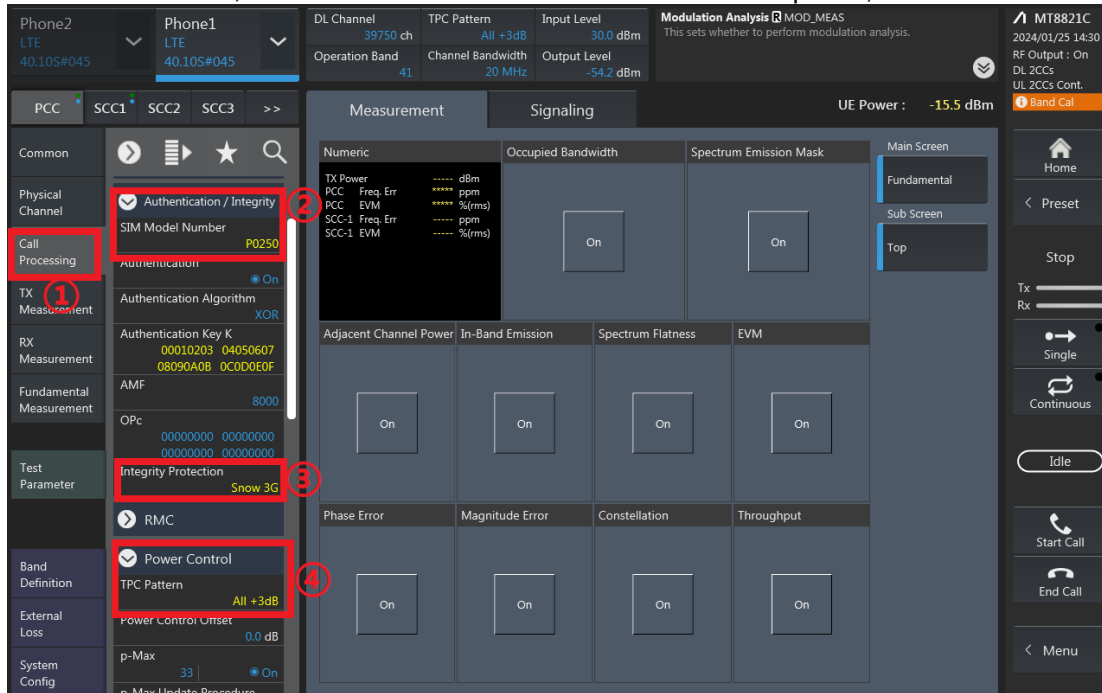
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



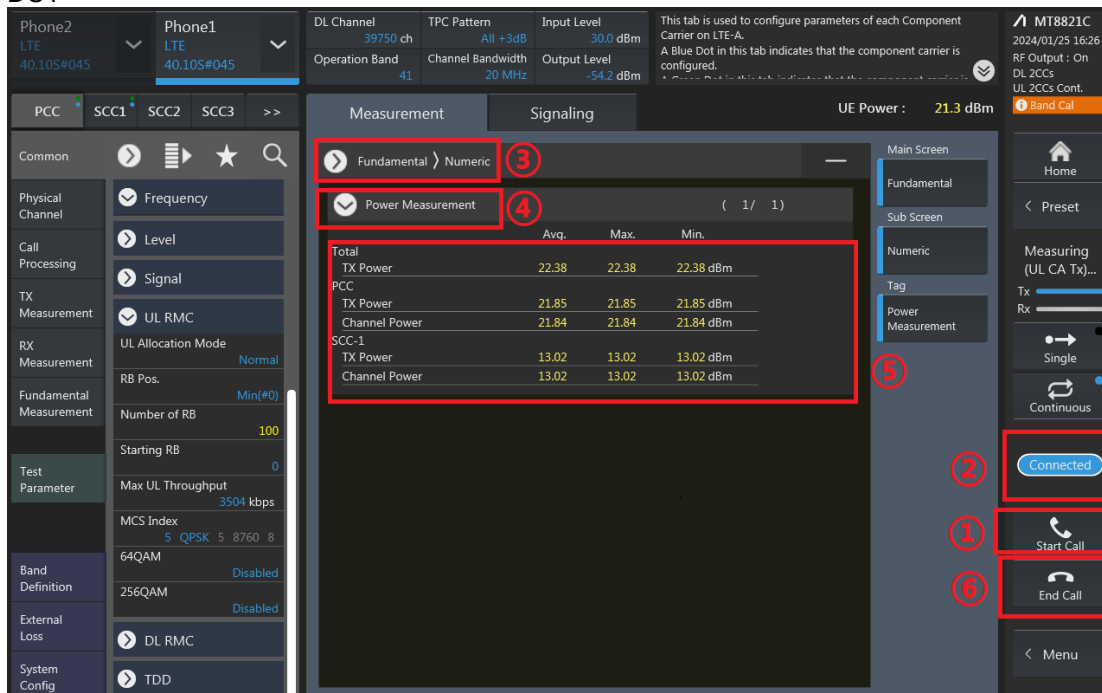
RB configurations (Number of RB / Starting RB) for SCC1;



5. Select the PCC tab, then set “SIM Model Number” and select max power;



6. Click the “Connect” button at the Right of the screen, if necessary, turn the Airplane mode on/off in the DUT



7. The inter-band ULCA test method is similar to intra-band ULCA, and DLCA test method is similar to intra-band ULCA too.

Uplink CA_Full & Default Power

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	23.24	24.50
21100	21298	QPSK	1	99	1	0	23.29	24.50
21350	21152	QPSK	1	0	1	99	23.28	24.50

CA_38C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	23.38	24.50
37901	38099	QPSK	1	99	1	0	23.39	24.50
38150	37952	QPSK	1	0	1	99	23.36	24.50

CA_7C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.79	24.50
21100	21298	QPSK	1	99	1	0	22.93	24.50
21350	21152	QPSK	1	0	1	99	22.85	24.50

CA_38C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.92	24.50
37901	38099	QPSK	1	99	1	0	22.99	24.50
38150	37952	QPSK	1	0	1	99	22.97	24.50

Uplink CA_DSI1 Power

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	23.24	24.50
21100	21298	QPSK	1	99	1	0	23.29	24.50
21350	21152	QPSK	1	0	1	99	23.28	24.50

CA_38C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	23.38	24.50
37901	38099	QPSK	1	99	1	0	23.39	24.50
38150	37952	QPSK	1	0	1	99	23.36	24.50

CA_7C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	16.75	18.50
21100	21298	QPSK	1	99	1	0	16.86	18.50
21350	21152	QPSK	1	0	1	99	16.77	18.50

CA_38C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	19.02	20.50
37901	38099	QPSK	1	99	1	0	19.08	20.50
38150	37952	QPSK	1	0	1	99	18.99	20.50

Uplink CA_DSI2 Power

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	23.24	24.50
21100	21298	QPSK	1	99	1	0	23.29	24.50
21350	21152	QPSK	1	0	1	99	23.28	24.50

CA_38C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	23.38	24.50
37901	38099	QPSK	1	99	1	0	23.39	24.50
38150	37952	QPSK	1	0	1	99	23.36	24.50

CA_7C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.79	24.50
21100	21298	QPSK	1	99	1	0	22.93	24.50
21350	21152	QPSK	1	0	1	99	22.85	24.50

CA_38C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.92	24.50
37901	38099	QPSK	1	99	1	0	22.99	24.50
38150	37952	QPSK	1	0	1	99	22.97	24.50

Uplink CA_DSI3 Power

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	18.71	20.00
21100	21298	QPSK	1	99	1	0	18.86	20.00
21350	21152	QPSK	1	0	1	99	18.67	20.00

CA_38C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	19.36	20.50
37901	38099	QPSK	1	99	1	0	19.41	20.50
38150	37952	QPSK	1	0	1	99	19.39	20.50

CA_7C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.79	24.50
21100	21298	QPSK	1	99	1	0	22.93	24.50
21350	21152	QPSK	1	0	1	99	22.85	24.50

CA_38C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.92	24.50
37901	38099	QPSK	1	99	1	0	22.99	24.50
38150	37952	QPSK	1	0	1	99	22.97	24.50

Uplink CA_DSI4 Power

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	18.71	20.00
21100	21298	QPSK	1	99	1	0	18.86	20.00
21350	21152	QPSK	1	0	1	99	18.67	20.00

CA_38C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	19.36	20.50
37901	38099	QPSK	1	99	1	0	19.41	20.50
38150	37952	QPSK	1	0	1	99	19.39	20.50

CA_7C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	16.75	18.50
21100	21298	QPSK	1	99	1	0	16.86	18.50
21350	21152	QPSK	1	0	1	99	16.77	18.50

CA_38C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	19.02	20.50
37901	38099	QPSK	1	99	1	0	19.08	20.50
38150	37952	QPSK	1	0	1	99	18.99	20.50

Downlink CA Power

2CA DL

CA List	PCC										SCC				Power			
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	RB	RB Offset	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	MHz	Freq	Channel		Channel	RB				Offset	Band	MHz	Freq			
CA_2A-2A	Band 2	1	20M	1880	18900	QPSK	1	0				Band 2	5M	1987.5	1175		22.91	22.98
CA_2A-26A	Band 2	2	20M	1880	18900	QPSK	1	0				Band 26	19M	831.5	26965		22.93	23.05
CA_2A-38A	Band 26	1	19M	831.5	26965	QPSK	1	0				Band 2	20M	1950	900	4x4MIMO	24.30	24.41
	Band 2	1	20M	2595	38000	QPSK	1	0	4x4MIMO			Band 38	20M	2595	38000	4x4MIMO	22.91	22.98
CA_2C	Band 2	2	20M	1880	18900	QPSK	1	0				Band 2	20M	1979.8	1098		22.93	23.05
CA_4A-17A	Band 4	1	10M	1732.5	20175	QPSK	1	0	4x4MIMO			Band 17	10M	740	5790		23.66	23.81
	Band 17	4	10M	710	23790	QPSK	1	0				Band 4	10M	2132.5	2175	4x4MIMO	24.32	24.48
CA_26A-38A	Band 26	1	19M	831.5	26965	QPSK	1	0				Band 38	20M	2595	38000	4x4MIMO	24.30	24.41
CA_7A-26A	Band 7	1	20M	2535	21100	QPSK	1	0	4x4MIMO			Band 26	19M	876.5	8865		23.37	23.47
	Band 26	4	19M	831.5	26965	QPSK	1	0				Band 7	20M	2655	3100	4x4MIMO	24.39	24.55
CA_26A-41A	Band 26	1	19M	831.5	26965	QPSK	1	0				Band 41	20M	2593	40620	4x4MIMO	24.30	24.41
CA_38A-41A	Band 38	1	20M	2595	38000	QPSK	1	0	4x4MIMO			Band 41	20M	2593	40620	4x4MIMO	23.42	23.51
	Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO			Band 38	20M	2595	38000	4x4MIMO	23.45	23.60
CA_38C	Band 38	1	20M	2590	37950	QPSK	1	0	4x4MIMO			Band 38	20M	2599.8	38048	4x4MIMO	23.42	23.51
CA_41C	Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO			Band 41	20M	2612.8	40818	4x4MIMO	23.45	23.60
CA_66B	Band 66	1	15M	1745	132322	QPSK	1	0				Band 66	5M	2164.3	66979		23.68	23.82
CA_66C	Band 66	1	20M	1745	132322	QPSK	1	0				Band 66	20M	2164.8	66984		23.78	23.94

3CA DL

3CA List	POC									SOC1				SOC2				Power				
	LTE	BW	BW	UL	UL	Mod	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
	Band	Act	(MHz)	Freq. (MHz)	Channel		RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel		Tx Power (dBm)	Tx Power (dBm)		
CA_2A-4A-5A	Band 2	2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		22.96	23.05	
	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900		23.74	23.86	
	Band 5	4	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175	4x4MIMO	24.37	24.53	
CA_2-4A-7A	Band 2	2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		22.96	23.05
	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		23.74	23.86	
	Band 7	3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		Band 4	20M	2132.5	2175	4x4MIMO	23.65	23.75	
CA_2A-5A-7A	Band 2	2	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO		22.96	23.05
	Band 5	1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		24.18	24.34	
	Band 7	3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		Band 5	10M	881.5	2525		23.65	23.75	
CA_2A-7A-7A	Band 2	2	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO		22.96	23.05
	Band 7	3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1960	900		23.65	23.75	
	Band 2	2	20M	1880	18900	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		22.96	23.05
CA_2A-7A-66A	Band 7	3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		Band 66	20M	2155	66886	4x4MIMO		23.65	23.75
	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		23.67	23.94	
	Band 2	2	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO		22.96	23.05
CA_2A-7C	Band 7	3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1960	900		23.65	23.75	
	Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		23.18	23.30
	Band 7	3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO		23.65	23.75
CA_4A-7C	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO		23.74	23.86
	Band 7	3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		23.65	23.75
	Band 5	4	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO		24.37	24.53
CA_5A-7A-7A	Band 7	1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 5	10M	881.5	2525		23.38	23.47	
	Band 5	4	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		24.37	24.53
	Band 7	3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO		23.65	23.75
CA_5A-7A-66A	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 5	10M	881.5	2525		23.67	23.94	
	Band 5	4	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO		24.37	24.53
	Band 7	1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 5	10M	881.5	2525		23.38	23.47	
CA_7A-66A-66A	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO		23.65	23.75
	Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	Band 41	20M	2506	39750	4x4MIMO		23.53	23.60
	CA_41D	Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	41088	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO		23.53
CA_2A-2A-5A	Band 2	2	20M	1880	18900	QPSK	1	0		Band 5	10M	1987.5	1175		Band 5	10M	881.5	2525		22.88	23.05	
	Band 5	1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1860	900		Band 2	5M	1987.5	1175		24.21	24.34	



Appendix G. Power reduction mechanism verification

The detailed Power reduction mechanism verification data are shown as follows.

Power reduction mechanism verification

According to the May 2017 TCBC Workshop, Demonstration of proper functioning of the detection and triggering mechanisms is required to support the corresponding RF exposure conditions. The verification is through a base station simulator is used to establish a conducted RF connection and monitor output power under different operating conditions related to the power reduction mechanisms. Detail of power reduction mechanisms referring to Operational Description

1. Power Verification Procedure

The power verification was performed according to the following procedure:

1. A base station simulator was used to establish a conducted RF connection and the output power was monitored. The power measurements were confirmed to be within expected tolerances for all states before and after a power reduction mechanism was triggered.
2. Step 1 was repeated for all relevant modes and frequency bands for the mechanism being investigated.
3. Steps 1 and 2 were repeated for all individual power reduction mechanisms and combinations thereof. For the combination cases, one mechanism was switched to a 'triggered' state at a time; powers were confirmed to be within tolerances after each additional mechanism was activated.

General Note:

1. This device uses different Device State Indices (DSI) to configure different time averaged power levels based on certain exposure scenarios. This device uses Proximity sensors/receiver detect mechanism to configure different time averaged power levels based on certain exposure scenarios. Receiver on represents the case where the device is held to ear, sensor on and receiver off represents the case when hotspot/Body-worn/extremity exposure condition.
2. Select the bands with the largest power reduction for power verification:
 - a. Establish voice call and audio routed through the earpiece to monitor output power under head power states.
 - LTE Band 2/48 is set at 'highest BW, 1RB, RB Offset = 0, QPSK'.
 - b. Establish data connection monitor hotspot/body worn/extremity power state.
 - GSM1900 is set to GPRS 4TX slot, LTE Band 2 is set at 'highest BW, 1RB, RB Offset = 0, QPSK', WCDMA II is set RMC 12.2Kbps, 5G FR1 n38 is set at highest BW, 1RB, RB offset = 1.
 - Body Detect mechanism was performed for the in-hand and on a stationary object (placed on a table).
3. In this power validation purpose is to demonstrate of proper functioning of the detection and triggering mechanisms to support the corresponding RF exposure conditions.
4. Verification performed for one technology/Band to demonstrate that the power reduction applies for same technology/band and call origination.

2. Verification output Power Results

Head exposure conditions

Head Exposure Condition		Output Power for Voice Call			
Ear acoustic output Status:		ON		OFF	
Power state		WWAN DSI1		WWAN DSI2	
Wireless technology	Antenna	Measured (dBm)	Max. Tune-up (dBm)	Measured (dBm)	Max. Tune-up (dBm)
LTE Band 2	Ant4	15.10	16.00	22.10	23.00
LTE Band 48	Ant5	17.90	19.00	24.43	25.50

Hotspot/Body worn/Extremity exposure condition

Exposure Condition		Output Power for data connection			
Sensor Status		OFF		ON	
Power state		WWAN DSI2		WWAN DSI4	
Wireless Technology	Antenna	Measured (dBm)	Max. Tune-up (dBm)	Measured (dBm)	Max. Tune-up (dBm)
GSM1900 (GPRS 4Tx slots)	Ant 4	24.85	26.00	20.88	22.00
WCDMA II	Ant 4	22.62	23.50	17.59	18.50
LTE Band 2	Ant 4	22.08	23.00	17.15	18.00
FR1 n38	Ant 4	21.54	23.00	16.05	17.50