

Default Power for WWAN Main PA

GSM850 Ant0 Default								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.93	33.09	33.05	34.00	23.93	24.09	24.05	25.00
GPRS 1 Tx slot	32.97	33.13	33.07	34.00	23.97	24.13	24.07	25.00
GPRS 2 Tx slots	30.09	30.12	30.04	31.00	24.09	24.12	24.04	25.00
GPRS 3 Tx slots	28.23	28.34	28.19	29.20	23.97	24.08	23.93	24.94
GPRS 4 Tx slots	26.91	26.95	26.88	28.00	23.91	23.95	23.88	25.00
EDGE 1 Tx slot	27.01	27.13	27.08	28.00	18.01	18.13	18.08	19.00
EDGE 2 Tx slots	24.17	24.25	24.10	25.00	18.17	18.25	18.10	19.00
EDGE 3 Tx slots	22.31	22.41	22.28	23.20	18.05	18.15	18.02	18.94
EDGE 4 Tx slots	21.12	21.17	21.04	22.00	18.12	18.17	18.04	19.00

WCDMA V Ant0 Default					
Band	WCDMA V			Tune-up Limit (dBm)	
TX Channel	4132	4182	4233		
Rx Channel	4357	4407	4458		
Frequency (MHz)	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	23.98	24.11	24.08	25.00
3GPP Rel 99	RMC 12.2Kbps	24.04	24.16	24.13	25.00
3GPP Rel 6	HSDPA Subtest-1	23.15	23.15	23.11	24.00
3GPP Rel 6	HSDPA Subtest-2	23.09	23.15	23.07	24.00
3GPP Rel 6	HSDPA Subtest-3	22.54	22.69	22.61	23.50
3GPP Rel 6	HSDPA Subtest-4	22.56	22.63	22.57	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.03	23.14	23.10	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.04	23.14	23.06	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.45	22.60	22.53	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.43	22.56	22.50	23.50
3GPP Rel 6	HSUPA Subtest-1	22.98	23.03	23.05	24.00
3GPP Rel 6	HSUPA Subtest-2	21.08	21.21	21.06	22.00
3GPP Rel 6	HSUPA Subtest-3	22.09	22.26	22.21	23.00
3GPP Rel 6	HSUPA Subtest-4	21.06	21.11	21.03	22.00
3GPP Rel 6	HSUPA Subtest-5	23.02	23.11	23.05	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.57	20.76	20.64	21.50

Band 5 Main PA Ant0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mask Ch./Freq.	Power High Ch./Freq.	Time-up Int. (dB)	Margin (dB)			
Channel				20460	20500	20600					
Frequency (MHz)				828	836.5	844					
10	QPSK	1	0	24.45	24.56	24.50	25.5	0			
10	QPSK	1	25	24.40	24.48	24.43					
10	QPSK	1	49	24.35	24.52	24.34					
10	QPSK	25	0	23.48	23.59	23.54	24.5	1			
10	QPSK	25	12	23.43	23.47	23.50					
10	QPSK	25	25	23.34	23.54	23.47					
10	HQAM	1	0	23.79	23.84	23.79	24.5	1			
10	HQAM	1	25	23.72	23.71	23.68					
10	HQAM	1	49	23.68	23.73	23.69					
10	HQAM	25	0	22.39	22.52	22.41	23.5	2			
10	HQAM	25	12	22.37	22.48	22.33					
10	HQAM	25	25	22.36	22.44	22.34					
10	64QAM	1	0	22.59	22.66	22.58	23.5	2			
10	64QAM	1	25	22.49	22.59	22.54					
10	64QAM	1	49	22.51	22.67	22.44					
10	64QAM	25	0	21.39	21.46	21.39	22.5	3			
10	64QAM	25	12	21.32	21.47	21.28					
10	64QAM	25	25	21.28	21.37	21.38					
10	256QAM	1	0	19.41	19.56	19.41	20.5	5			
10	256QAM	1	25	19.38	19.68	19.43					
10	256QAM	1	49	19.38	19.56	19.44					
10	256QAM	25	0	19.33	19.45	19.37	20.5	5			
10	256QAM	25	12	19.24	19.49	19.24					
10	256QAM	25	25	19.34	19.40	19.34					
10	256QAM	50	0	19.43	19.49	19.41					
Channel				20425	20500	20600	Time-up Int. (dB)	Margin (dB)			
Frequency (MHz)				828.5	836.5	844					
5	QPSK	1	0	24.32	24.52	24.41	25.5	0			
5	QPSK	1	12	24.31	24.43	24.40					
5	QPSK	1	24	24.29	24.40	24.22					
5	QPSK	12	0	23.36	23.53	23.45	24.5	1			
5	QPSK	12	7	23.39	23.36	23.38					
5	QPSK	12	13	23.20	23.37	23.26					
5	QPSK	25	0	23.34	23.48	23.39	24.5	1			
5	HQAM	1	0	23.76	23.79	23.75					
5	HQAM	1	12	23.69	23.60	23.54					
5	HQAM	1	24	23.58	23.67	23.64	23.5	2			
5	HQAM	12	0	22.29	22.44	22.33					
5	HQAM	12	7	22.27	22.39	22.27					
5	HQAM	12	13	22.33	22.31	22.34	23.5	2			
5	HQAM	25	0	22.27	22.38	22.20					
5	64QAM	1	0	22.48	22.61	22.53	23.5	2			
5	64QAM	1	12	22.48	22.61	22.40					
5	64QAM	1	24	22.44	22.52	22.35					
5	64QAM	12	0	21.33	21.34	21.33	22.5	3			
5	64QAM	12	7	21.28	21.41	21.20					
5	64QAM	12	13	21.19	21.28	21.25					
5	64QAM	25	0	21.14	21.48	21.14	20.5	5			
5	256QAM	1	0	19.35	19.51	19.36					
5	256QAM	1	12	19.34	19.57	19.31					
5	256QAM	1	24	19.33	19.51	19.36	20.5	5			
5	256QAM	12	0	19.28	19.35	19.27					
5	256QAM	12	7	19.20	19.34	19.19					
5	256QAM	12	13	19.31	19.29	19.27	20.5	5			
5	256QAM	25	0	19.33	19.43	19.30					
Channel				20415	20500	20600	Time-up Int. (dB)	Margin (dB)			
Frequency (MHz)				825.5	833.5	847					
3	QPSK	1	0	24.31	24.50	24.47	25.5	0			
3	QPSK	1	8	24.35	24.43	24.25					
3	QPSK	1	14	24.22	24.45	24.29					
3	QPSK	8	0	23.37	23.51	23.41	24.5	1			
3	QPSK	8	4	23.35	23.38	23.41					
3	QPSK	8	7	23.26	23.47	23.26					
3	QPSK	8	0	23.39	23.44	23.40	24.5	1			
3	HQAM	1	0	23.70	23.71	23.68					
3	HQAM	1	8	23.68	23.68	23.54					
3	HQAM	1	14	23.63	23.58	23.66	23.5	2			
3	HQAM	8	0	22.28	22.42	22.37					
3	HQAM	8	4	22.32	22.42	22.20					
3	HQAM	8	7	22.22	22.38	22.24	23.5	2			
3	HQAM	16	0	22.17	22.34	22.17					
3	64QAM	1	0	22.66	22.63	22.63					
3	64QAM	1	8	22.44	22.54	22.40	22.5	3			
3	64QAM	1	14	22.44	22.56	22.40					
3	64QAM	8	0	21.25	21.41	21.36					
3	64QAM	8	4	21.24	21.35	21.15	20.5	5			
3	64QAM	8	7	21.17	21.27	21.27					
3	64QAM	16	0	21.08	21.38	21.17					
3	256QAM	1	0	19.35	19.47	19.38	20.5	5			
3	256QAM	1	8	19.27	19.54	19.33					
3	256QAM	1	14	19.24	19.43	19.33					
3	256QAM	8	0	19.27	19.32	19.22	20.5	5			
3	256QAM	8	4	19.12	19.39	19.18					
3	256QAM	8	7	19.30	19.36	19.30					
3	256QAM	16	0	19.35	19.46	19.30					
Channel				20467	20500	20663	Time-up Int. (dB)	Margin (dB)			
Frequency (MHz)				824.7	833.5	848.3					
1.4	QPSK	1	0	24.34	24.47	24.43	25.5	0			
1.4	QPSK	1	3	24.30	24.41	24.37					
1.4	QPSK	1	5	24.31	24.48	24.29					
1.4	QPSK	3	0	24.38	24.42	24.37	24.5	1			
1.4	QPSK	3	1	24.36	24.41	24.36					
1.4	QPSK	3	3	24.20	24.45	24.23					
1.4	QPSK	6	0	23.42	23.50	23.41	24.5	1			
1.4	HQAM	1	0	23.39	23.39	23.35					
1.4	HQAM	1	3	23.21	23.40	23.35					
1.4	HQAM	1	5	23.35	23.39	23.32	24.5	1			
1.4	HQAM	3	0	23.72	23.76	23.70					
1.4	HQAM	3	1	23.66	23.57	23.64					
1.4	HQAM	6	0	23.62	23.67	23.63	23.5	2			
1.4	HQAM	6	0	22.24	22.46	22.36					
1.4	HQAM	1	0	22.28	22.36	22.26					
1.4	HQAM	1	3	22.29	22.36	22.28	23.5	2			
1.4	64QAM	1	5	22.28	22.38	22.23					
1.4	64QAM	3	0	22.46	22.60	22.44					
1.4	64QAM	3	1	22.41	22.61	22.45	22.5	3			
1.4	64QAM	3	3	22.39	22.60	22.34					
1.4	HQAM	6	0	21.26	21.34	21.29					
1.4	256QAM	1	0	19.32	19.48	19.47	20.5	5			
1.4	256QAM	1	3	19.28	19.40	19.37					
1.4	256QAM	1	5	19.34	19.46	19.29	20.5	5			
1.4	256QAM	3	0	19.34	19.37	19.27					
1.4	256QAM	3	1	19.17	19.35	19.11					
1.4	256QAM	3	3	19.29	19.33	19.21	20.5	5			
1.4	256QAM	6	0	19.42	19.42	19.36					
1.4	256QAM	6	1	19.35	19.42	19.35					

Band 13 Main PA Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up Int. (dB)	APPR (dB)	
Channel									
782									
10	QPSK	1	0	24.64			25.5	0	
10	QPSK	1	25	24.59					
10	QPSK	1	49	24.52					
10	QPSK	25	0	23.98			24.5	1	
10	QPSK	25	12	23.91					
10	QPSK	25	25	23.77					
10	QPSK	50	0	23.90			24.5	1	
10	16QAM	1	0	23.86					
10	16QAM	1	25	23.81					
10	16QAM	1	49	23.78			23.5	2	
10	16QAM	25	0	22.77					
10	16QAM	25	12	22.92					
10	16QAM	25	25	22.71			22.5	3	
10	16QAM	50	0	22.88					
10	16QAM	1	0	23.68					
10	8QAM	1	25	22.99			23.5	2	
10	8QAM	1	49	22.94					
10	8QAM	25	12	21.80					
10	8QAM	25	25	21.81			22.5	3	
10	8QAM	50	0	21.80					
10	256QAM	1	0	19.95					
10	256QAM	1	25	19.76			20.5	5	
10	256QAM	1	49	19.83					
10	256QAM	25	0	19.69					
10	256QAM	25	12	19.91			20.5	5	
10	256QAM	25	25	19.72					
10	256QAM	50	0	19.62					
Channel									
23205									
778.5 783 784.5									
5	QPSK	1	0	24.51	24.39	24.24	25.5	0	
5	QPSK	1	12	24.31	24.48	24.40			
5	QPSK	1	24	24.26	24.38	24.33			
5	QPSK	12	0	23.74	23.87	23.79	24.5	1	
5	QPSK	12	7	23.69	23.77	23.70			
5	QPSK	12	13	23.56	23.68	23.64			
5	QPSK	25	0	23.65	23.78	23.73	24.5	1	
5	16QAM	1	0	23.70	23.82	23.69			
5	16QAM	1	12	23.64	23.72	23.65			
5	16QAM	1	24	23.59	23.72	23.63	24.5	1	
5	16QAM	12	0	22.58	22.71	22.62			
5	16QAM	12	7	22.73	22.82	22.76			
5	16QAM	25	0	22.70	22.82	22.76	23.5	2	
5	8QAM	1	0	23.00	23.04	22.93			
5	8QAM	1	12	22.82	23.02	22.80			
5	8QAM	1	24	22.72	22.85	22.77	23.5	2	
5	8QAM	12	0	21.42	21.47	21.54			
5	8QAM	12	7	21.50	21.74	21.62			
5	8QAM	12	13	21.45	21.52	21.43	22.5	3	
5	8QAM	25	0	21.70	21.74	21.63			
5	256QAM	1	0	19.76	19.83	19.69			
5	256QAM	1	12	19.90	19.98	19.88	20.5	5	
5	256QAM	1	24	19.79	19.81	19.74			
5	256QAM	12	0	19.54	19.61	19.59			
5	256QAM	12	7	19.69	19.80	19.68	20.5	5	
5	256QAM	12	13	19.55	19.64	19.57			
5	256QAM	25	0	19.60	19.74	19.63			

Band 26 Main PA Ant0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turnup Int. (dB)	APPR (dB)				
Channel												
821.5 831.5 841.5												
15	QPSK	1	0	24.52	24.58	24.48	25.5	0				
15	QPSK	1	37	24.43	24.51	24.45						
15	QPSK	1	74	24.41	24.53	24.47						
15	QPSK	36	0	23.48	23.63	23.52	24.5	1				
15	QPSK	36	20	23.43	23.55	23.50						
15	QPSK	36	39	23.52	23.60	23.51						
15	QPSK	75	0	23.54	23.57	23.47	24.5	1				
15	16QAM	1	0	23.48	23.56	23.45						
15	16QAM	1	37	23.36	23.51	23.37						
15	16QAM	1	74	23.42	23.54	23.47	23.5	2				
15	16QAM	36	0	22.42	22.47	22.42						
15	16QAM	36	20	22.46	22.49	22.52						
15	16QAM	36	39	22.52	22.57	22.49	22.5	2				
15	16QAM	75	0	22.50	22.54	22.49						
15	8QAM	1	0	22.59	22.70	22.59						
15	8QAM	1	37	22.63	22.68	22.54	22.5	2				
15	8QAM	1	74	22.53	22.85	22.56						
15	8QAM	36	0	21.25	21.37	21.34						
15	8QAM	36	20	21.41	21.50	21.42	22.5	3				
15	8QAM	36	39	21.45	21.52	21.44						
15	8QAM	75	0	21.41	21.54	21.43						
15	256QAM	1	0	19.58	19.68	19.49	20.5	5				
15	256QAM	1	37	19.42	19.57	19.49						
15	256QAM	1	74	19.60	19.74	19.69						
15	256QAM	36	0	19.35	19.42	19.38	20.5	5				
15	256QAM	36	20	19.48	19.52	19.43						
15	256QAM	36	39	19.46	19.55	19.43						
15	256QAM	75	0	19.38	19.51	19.47	20.5	5				
Channel												
26740 26865 26969												
819 821.5 844												
10	QPSK	1	0	24.42	24.44	24.38	25.5	0				
10	QPSK	1	25	24.39	24.48	24.31						
10	QPSK	1	49	24.28	24.42	24.42						
10	QPSK	25	0	23.43	23.52	23.46	24.5	1				
10	QPSK	25	12	23.29	23.45	23.40						
10	QPSK	25	25	23.48	23.48	23.47						
10	QPSK	50	0	23.42	23.49	23.43	24.5	1				
10	16QAM	1	0	23.41	23.49	23.39						
10	16QAM	1	25	23.33	23.47	23.31						
10	16QAM	1	49	23.28	23.51	23.49	23.5	2				
10	16QAM	25	0	22.36	22.35	22.38						
10	16QAM	25	12	22.35	22.56	22.42						
10	16QAM	25	25	22.36	22.46	22.35	22.5	3				
10	8QAM	1	0	22.51	22.58	22.52						
10	8QAM	1	25	22.29	22.63	22.45						
10	8QAM	1	49	22.53	22.91	22.51	22.5	3				
10	8QAM	25	0	21.18	21.31	21.25						
10	8QAM	25	12	21.32	21.52	21.37						
10	8QAM	25	25	21.32	21.38	21.31	20.5	5				
10	8QAM	50	0	21.54	21.50	21.53						
10	256QAM	1	0	19.45	19.63	19.52						
10	256QAM	1	25	19.52	19.42	19.42	20.5	5				
10	256QAM	1	49	19.54	19.65	19.56						
10	256QAM	25	0	19.28	19.39	19.32						
10	256QAM	25	12	19.43	19.41	19.39	20.5	5				
10	256QAM	25	25	19.39	19.48	19.38						
10	256QAM	50	0	19.35	19.40	19.35						
Channel												
26715 26865 27016												
816.5 821.5 845.5												
5	QPSK	1	0	24.44	24.46	24.38	25.5	0				
5	QPSK	1	12	24.32	24.38	24.25						
5	QPSK	1	24	24.34	24.45	24.38						
5	QPSK	12	0	23.46	23.57	23.46	24.5	1				
5	QPSK	12	7	23.29	23.48	23.43						
5	QPSK	12	14	23.43	23.53	23.43						
5	QPSK	25	0	23.42	23.57	23.45	24.5	1				
5	16QAM	1	0	23.41	23.49	23.39						
5	16QAM	1	12	23.33	23.47	23.31						
5	16QAM	1	24	23.37	23.50	23.34	23.5	2				
5	16QAM	12	0	22.34	22.44	22.34						
5	16QAM	12	7	22.35	22.49	22.35						
5	16QAM	12	13	22.47	22.49	22.25	22.5	2				
5	16QAM	25	0	22.38	22.39	22.45						
5	16QAM	25	7	22.39	22.59	22.43						
5	16QAM	1	12	22.56	22.54	22.45	22.5	2				
5	8QAM	1	24	22.82	22.89	22.78						
5	8QAM	12	0	22.10	22.21	22.10						
5	8QAM	12	13	21.31	21.43	21.37	20.5	5				
5	8QAM	12	18	21.42	21.42	21.37						
5	8QAM	25	0	19.45	19.61	19.45						
5	256QAM	1	12	19.29	19.63	19.58	20.5	5				
5	256QAM	1	24	19.38	19.48	19.38						
5	256QAM	12	0	19.24	19.31	19.30						
5	256QAM	12	7	19.36	19.41	19.37	20.5	5				
5	256QAM	12	13	19.42	19.42	19.37						
5	256QAM	25	0	19.32	19.38	19.35						
Channel												
26705 26865 27020												
815.5 821.5 845.5												
3	QPSK	1	0	24.48	24.52	24.37	25.5	0				
3	QPSK	1	8	24.37	24.48	24.32						
3	QPSK	1	14	24.34	24.45	24.43						
3	QPSK	3	0	23.54	23.61	23.41	24.5	1				
3	QPSK	3	8	23.52	23.65	23.48						
3	QPSK	3	14	23.52	23.64	23.48						
3	QPSK	8	0	23.49	23.48	23.46	24.5	1				
3	QPSK	8	8	23.47	23.58	23.46						
3	QPSK	8	14	23.44	23.52	23.37						
3	16QAM	1	0	23.37	23.45	23.31	24.5	1				
3	16QAM	1	8	23.27	23.43	23.31						
3	16QAM	1	14	23.28	23.49	23.33						
3	16QAM	3	0	23.34	23.42	23.32	23.5	2				
3	16QAM	3	8	22.42	22.54	22.42						
3	16QAM	3	14	22.43	22.53	22.32						
3	16QAM	8	0	22.37	22.47	22.46	22.5	2				
3	8QAM	1	0	22.46	22.57	22.44						
3	8QAM	1	8	22.35	22.81	22.35						
3	8QAM	1	14	22.28	22.88	22.76	22.5	2				
3	8QAM	3	0	21.13	21.28	21.21						
3	8QAM	3	8	21.37	21.48	21.38						
3	8QAM	8	0	21.38	21.38	21.34	22.5	3				
3	8QAM	8	7	21.36	21.38	21.34						
3	8QAM	15	0	21.28	21.46	21.28						
3	256QAM	1	0	19.43	19.68	19.55	20.5	5				
3	256QAM	1	8	19.30	19.45	19.39						
3	256QAM	8	14	19.46	19.71	19.51						
3	256QAM	3	0	19.25	19.38	19.38	20.5	5				
3	256QAM	3	8	19.38	19.39	19.29						
3	256QAM	3	14	19.34	19.48	19.43						
Channel												
26697 26865 27020												
814.5 821.5 845.5												
14	QPSK	1	0	24.44	24.54	24.45	25.5	0				
14	QPSK	1	8	24.34	24.38	24.36						
14	QPSK	1	14	24.35	24.50	24.41						
14	QPSK	3	0	23.48	23.48	23.44	24.5	1				
14	QPSK	3	8	23.47	23.45	23.48						
14	QPSK	3	14	23.44	23.49	23.44						
14	16QAM	1	0	23.33	23.42	23.40	24.5	1				
14	16QAM	1	8	23.42	23.45	23.36						
14	16QAM	1	14	23.47	23.54	23.44						
14	16QAM	3	0	23.38	23.42	23.40	23.5	2				
14	16QAM	3	8	22.38	22.43	22.37						
14	16QAM	3	14	22.35	22.49	22.41						
14	16QAM	8	0	22.43	22.48	22.38	23.5	2				
14	16QAM	8	8	22.50	22.59	22.49						
14	16QAM	8	14	22.49	22.59	22.47						
14	8QAM	1	0	22.58	22.79	22.75	22.5	2				
14	8QAM	1	8	21.35	21.47	21.45						
14	8QAM	1	14	21.46	21.54	21.46						
14	8QAM	3	0	19.38	19.48	19.46	20.5	5				
14	8QAM	3	8	19.46	19.54	19.46						
14	8QAM	3	14	19.35	19.48	19.47						
14	256QAM	1	0	19.34	19.49	19.33	20.5	5				
14	256QAM	1	8	19.36	19.43	19.46						
14	256QAM	1	14	19.45	19.62	19.46						

GSM850 Ant1 Default								
GSM850 TX Channel Frequency (MHz)	Burst-Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.02	32.11	32.02	33.50	23.02	23.11	23.02	24.50
GPRS 1 Tx slot	32.05	32.16	32.08	33.50	23.05	23.16	23.08	24.50
GPRS 2 Tx slots	29.21	29.24	29.17	30.50	23.21	23.24	23.17	24.50
GPRS 3 Tx slots	27.40	27.44	27.34	28.50	23.14	23.18	23.08	24.24
GPRS 4 Tx slots	25.97	26.07	26.00	27.50	22.97	23.07	23.00	24.50
EDGE 1 Tx slot	26.21	26.25	26.11	27.50	17.21	17.25	17.11	18.50
EDGE 2 Tx slots	23.24	23.29	23.16	24.50	17.24	17.29	17.16	18.50
EDGE 3 Tx slots	21.40	21.53	21.48	22.70	17.14	17.27	17.22	18.44
EDGE 4 Tx slots	20.15	20.28	20.24	21.50	17.15	17.28	17.24	18.50

		GSM1900 Ant1 Default						
GSM1800		Burst-Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)		
TX Channel		512	661	810		512	661	810
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8
GSM 1 Tx slot		28.13	28.19	28.15	30.00	19.13	19.19	19.15
GPRS 1 Tx slot		28.16	28.24	28.22	30.00	19.16	19.24	19.22
GPRS 2 Tx slots		25.27	25.31	25.25	27.00	19.27	19.31	19.25
GPRS 3 Tx slots		23.88	23.96	23.87	25.20	19.62	19.70	19.61
GPRS 4 Tx slots		22.35	22.47	22.37	24.00	19.35	19.47	19.37
EDGE 1 Tx slot		24.79	24.88	24.82	26.00	15.79	15.88	15.82
EDGE 2 Tx slots		21.97	22.07	21.93	23.00	15.97	16.07	15.93
EDGE 3 Tx slots		19.90	20.03	19.89	21.20	15.64	15.77	15.63
EDGE 4 Tx slots		19.20	19.26	19.21	20.00	16.20	16.26	16.21

		WCDMA II Ant1 Default			WCDMA IV Ant1 Default			WCDMA V Ant1 Default					
Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			WCDMA V			Tune-up Limit (dBm)		
	TX Channel	9262	9400		9538	1312	1413	1513	Tune-up Limit (dBm)	4132		4182	4233
	Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
	Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		3264	3364	3466	
3GPP Rel 99	AMR 12.2kbps	22.02	22.09	22.01	24.00	22.02	22.12	22.07	24.00	23.22	23.32	23.29	25.00
3GPP Rel 99	RMC 12.2kbps	22.05	22.12	22.03	24.00	22.10	22.19	22.13	24.00	23.27	23.36	23.35	25.00
3GPP Rel 6	HSDPA Subtest-1	21.06	21.14	21.06	23.00	21.15	21.23	21.20	23.00	22.36	22.34	22.35	24.00
3GPP Rel 6	HSDPA Subtest-2	21.01	21.11	21.03	23.00	21.06	21.09	21.06	23.00	22.23	22.35	22.31	24.00
3GPP Rel 6	HSDPA Subtest-3	20.56	20.60	20.60	22.50	20.60	20.69	20.65	22.50	21.76	21.84	21.88	23.50
3GPP Rel 6	HSDPA Subtest-4	20.53	20.59	20.57	22.50	20.50	20.61	20.55	22.50	21.72	21.85	21.83	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.03	21.05	21.03	23.00	21.04	21.16	21.09	23.00	22.28	22.31	22.34	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.03	21.02	21.03	23.00	21.16	21.13	21.02	23.00	22.17	22.29	22.19	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	20.52	20.55	20.58	22.50	20.56	20.59	20.52	22.50	21.73	21.81	21.86	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	20.56	20.69	20.59	22.50	20.56	20.60	20.54	22.50	21.65	21.82	21.72	23.50
3GPP Rel 6	HSUPA Subtest-1	21.12	21.03	21.01	23.00	21.01	21.10	21.01	23.00	22.15	22.22	22.19	24.00
3GPP Rel 6	HSUPA Subtest-2	19.07	19.06	19.08	21.00	19.11	19.16	19.05	21.00	20.24	20.38	20.35	22.00
3GPP Rel 6	HSUPA Subtest-3	20.11	20.14	20.18	22.00	20.13	20.24	20.24	22.00	21.39	21.45	21.43	23.00
3GPP Rel 6	HSUPA Subtest-4	19.02	19.00	19.03	21.00	19.06	19.03	19.07	21.00	20.20	20.24	20.26	22.00
3GPP Rel 6	HSUPA Subtest-5	21.01	21.01	21.07	23.00	21.05	21.11	21.04	23.00	22.14	22.33	22.18	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.63	18.75	18.58	20.50	18.62	18.70	18.63	20.50	19.78	20.00	19.84	21.50



Band 4 Main PA Ant1														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	22.96	23.01	22.96	24.5	0						
20	QPSK	1	49	22.98	22.97	22.96								
20	QPSK	1	99	22.74	22.88	22.76								
20	QPSK	50	0	21.75	21.83	21.72								
20	QPSK	50	24	21.65	21.79	21.63	23.5	1						
20	QPSK	50	50	21.64	21.74	21.59								
20	QPSK	100	0	21.72	21.83	21.68								
20	16QAM	1	49	21.71	21.81	21.77								
20	16QAM	1	99	21.72	21.77	21.68	23.5	1						
20	16QAM	50	0	20.80	20.84	20.73								
20	16QAM	50	24	20.71	20.76	20.67								
20	16QAM	50	50	20.69	20.80	20.69								
20	16QAM	100	0	20.65	20.74	20.61	22.5	2						
20	64QAM	1	0	20.82	20.86	20.71								
20	64QAM	1	49	20.76	20.80	20.76								
20	64QAM	50	0	19.84	19.79	19.67								
20	64QAM	50	24	19.58	19.70	19.58	21.5	3						
20	64QAM	50	50	19.72	19.75	19.68								
20	64QAM	100	0	19.52	19.67	19.58								
20	256QAM	1	0	17.66	17.61	17.57								
20	256QAM	1	49	17.60	17.63	17.56	19.5	5						
20	256QAM	1	99	17.57	17.63	17.54								
20	256QAM	50	0	17.64	17.64	17.58								
20	256QAM	50	24	17.54	17.63	17.52								
20	256QAM	50	50	17.66	17.69	17.66	19.5	5						
20	256QAM	100	0	17.52	17.60	17.52								
Channel														
Frequency (MHz)														
16	QPSK	1	0	22.88	22.92	22.78	24.5	0						
16	QPSK	1	37	22.79	22.88	22.80								
16	QPSK	1	74	22.65	22.76	22.62								
16	QPSK	36	0	21.72	21.71	21.67								
16	QPSK	36	24	21.58	21.66	21.59	23.5	1						
16	QPSK	36	39	21.57	21.64	21.54								
16	QPSK	75	0	21.59	21.78	21.58								
16	16QAM	1	0	21.68	21.76	21.70								
16	16QAM	1	37	21.60	21.72	21.72	23.5	1						
16	16QAM	1	74	21.66	21.80	21.76								
16	16QAM	36	0	20.68	20.73	20.69								
16	16QAM	36	20	20.65	20.70	20.63								
16	16QAM	36	39	20.65	20.70	20.58	22.5	2						
16	16QAM	75	0	20.61	20.70	20.58								
16	64QAM	1	0	20.70	20.81	20.50								
16	64QAM	1	37	20.66	20.80	20.57								
16	64QAM	1	74	20.50	20.69	20.51	21.5	3						
16	64QAM	36	0	19.55	19.68	19.62								
16	64QAM	36	20	19.50	19.62	19.54								
16	64QAM	36	39	19.53	19.71	19.51								
16	64QAM	75	0	19.66	19.65	19.54	19.5	5						
16	256QAM	1	0	17.70	17.72	17.56								
16	256QAM	1	37	17.64	17.67	17.63								
16	256QAM	1	74	17.63	17.66	17.61								
16	256QAM	36	0	17.65	17.68	17.61	19.5	5						
16	256QAM	36	20	17.58	17.58	17.50								
16	256QAM	36	39	17.71	17.70	17.63								
16	256QAM	75	0	17.66	17.72	17.62								
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.88	22.92	22.78	24.5	0						
10	QPSK	1	25	22.77	22.88	22.75								
10	QPSK	1	49	22.64	22.81	22.66								
10	QPSK	25	0	21.66	21.67	21.63								
10	QPSK	25	12	21.54	21.73	21.67	23.5	1						
10	QPSK	25	25	21.54	21.66	21.53								
10	QPSK	50	0	21.57	21.78	21.58								
10	16QAM	1	0	21.72	21.72	21.72								
10	16QAM	1	25	21.64	21.68	21.71	23.5	1						
10	16QAM	1	49	21.60	21.68	21.60								
10	16QAM	25	0	20.66	20.60	20.59								
10	16QAM	25	12	20.66	20.68	20.63								
10	16QAM	50	0	20.65	20.70	20.54	22.5	2						
10	16QAM	50	25	20.61	20.68	20.59								
10	64QAM	1	0	20.71	20.73	20.68								
10	64QAM	1	25	20.72	20.68	20.64								
10	64QAM	1	49	20.61	20.70	20.59	21.5	3						
10	64QAM	25	0	19.59	19.70	19.64								
10	64QAM	25	12	19.54	19.68	19.55								
10	64QAM	50	0	19.50	19.61	19.53								
10	64QAM	50	0	19.53	19.63	19.59	19.5	5						
10	256QAM	1	0	17.71	17.68	17.54								
10	256QAM	1	25	17.64	17.68	17.61								
10	256QAM	1	49	17.58	17.62	17.59								
10	256QAM	25	0	17.65	17.68	17.65	19.5	5						
10	256QAM	25	12	17.56	17.61	17.53								
10	256QAM	25	25	17.67	17.64	17.63								
10	256QAM	50	0	17.51	17.71	17.58								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.88	22.92	22.78	24.5	0						
5	QPSK	1	12	22.79	22.87	22.80								
5	QPSK	1	24	22.67	22.83	22.72								
5	QPSK	12	0	21.65	21.66	21.63								
5	QPSK	12	7	21.58	21.64	21.57	23.5	1						
5	QPSK	12	13	21.53	21.60	21.52								
5	QPSK	25	0	21.61	21.72	21.57								
5	16QAM	1	0	21.74	21.79	21.74								
5	16QAM	1	12	21.60	21.72	21.74	23.5	1						
5	16QAM	1	24	21.67	21.65	21.63								
5	16QAM	12	0	20.65	20.61	20.66								
5	16QAM	12	7	20.63	20.71	20.56								
5	16QAM	12	13	20.64	20.71	20.58	22.5	2						
5	16QAM	25	0	20.57	20.61	20.57								
5	64QAM	1	0	20.72	20.72	20.59								
5	64QAM	1	12	20.69	20.71	20.67								
5	64QAM	1	24	20.57	20.64	20.56	21.5	3						
5	64QAM	12	0	19.50	19.65	19.58								
5	64QAM	12	7	19.53	19.62	19.50								
5	64QAM	12	13	19.64	19.64	19.56								
5	64QAM	25	0	19.57	19.65	19.62	19.5	5						
5	256QAM	1	0	17.65	17.77	17.60								
5	256QAM	1	12	17.64	17.73	17.61								
5	256QAM	1	24	17.56	17.60	17.57								
5	256QAM	12	0	17.65	17.76	17.66	19.5	5						
5	256QAM	12	7	17.60	17.63	17.53								
5	256QAM	12	13	17.69	17.63	17.65								

Band 13 Main PA Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.06	23.06	23.06	25.5	0		
10	QPSK	1	25	23.06	23.06	23.06				
10	QPSK	1	49	23.06	23.06	23.06				
10	QPSK	25	0	22.84	22.84	22.84	24.5	1		
10	QPSK	25	25	22.84	22.84	22.84				
10	QPSK	25	50	22.84	22.84	22.84				
10	QPSK	50	0	22.62	22.62	22.62	24.5	1		
10	QPSK	50	25	22.62	22.62	22.62				
10	QPSK	50	50	22.62	22.62	22.62				
10	16QAM	1	49	22.79	22.79	22.79	23.5	2		
10	16QAM	1	73	22.79	22.79	22.79				
10	16QAM	1	97	22.79	22.79	22.79				
10	16QAM	25	12	21.81	21.81	21.81	23.5	2		
10	16QAM	25	36	21.81	21.81	21.81				
10	16QAM	25	60	21.81	21.81	21.81				
10	16QAM	50	0	21.79	21.79	21.79	22.5	2		
10	16QAM	50	25	21.79	21.79	21.79				
10	16QAM	50	50	21.79	21.79	21.79				
10	16QAM	1	25	22.07	22.07	22.07	22.5	2		
10	16QAM	1	49	22.07	22.07	22.07				
10	16QAM	1	73	22.07	22.07	22.07				
10	16QAM	25	0	20.76	20.76	20.76	22.5	3		
10	16QAM	25	25	20.76	20.76	20.76				
10	16QAM	25	50	20.76	20.76	20.76				
10	256QAM	1	25	18.81	18.81	18.81	20.5	5		
10	256QAM	1	49	18.81	18.81	18.81				
10	256QAM	1	73	18.81	18.81	18.81				
10	256QAM	25	12	18.78	18.78	18.78	20.5	5		
10	256QAM	25	36	18.78	18.78	18.78				
10	256QAM	25	60	18.78	18.78	18.78				
10	256QAM	50	0	18.81	18.81	18.81	20.5	5		
10	256QAM	50	25	18.81	18.81	18.81				
10	256QAM	50	50	18.81	18.81	18.81				

Band 26 Main PA Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.70	23.77	23.69	25.5	0		
15	QPSK	1	25	23.70	23.69	23.69				
15	QPSK	1	49	23.70	23.64	23.63				
15	QPSK	25	0	22.62	22.74	22.62	24.5	1		
15	QPSK	25	25	22.63	22.68	22.54				
15	QPSK	25	50	22.63	22.68	22.54				
15	QPSK	50	0	22.60	22.67	22.60	24.5	1		
15	QPSK	50	25	22.60	22.61	22.72				
15	QPSK	50	50	22.61	22.75	22.60				
15	16QAM	1	24	22.67	22.71	22.65	23.5	2		
15	16QAM	1	49	21.63	21.78	21.60				
15	16QAM	1	74	21.63	21.68	21.59				
15	16QAM	25	12	21.58	21.72	21.58	23.5	2		
15	16QAM	25	36	21.54	21.66	21.58				
15	16QAM	25	60	21.54	21.60	21.58				
15	16QAM	50	0	21.52	21.60	21.58	23.5	2		
15	16QAM	50	25	21.58	21.66	21.60				
15	16QAM	50	50	21.73	21.82	21.71				
15	16QAM	1	24	20.74	20.88	20.71	22.5	3		
15	16QAM	1	49	20.74	20.80	20.72				
15	16QAM	1	74	20.74	20.80	20.72				
15	16QAM	25	12	20.72	20.80	20.70	20.5	5		
15	16QAM	25	36	20.69	20.77	20.69				
15	16QAM	25	60	20.69	20.77	20.69				
15	256QAM	1	0	18.81	18.75	18.80	20.5	5		
15	256QAM	1	25	18.58	18.72	18.64				
15	256QAM	1	49	18.58	18.67	18.60				
15	256QAM	25	12	18.51	18.66	18.52	20.5	5		
15	256QAM	25	36	18.54	18.58	18.51				
15	256QAM	25	60	18.54	18.60	18.50				
15	256QAM	50	0	18.84	18.70	18.85	20.5	5		
15	256QAM	50	25	18.70	18.66	18.70				
15	256QAM	50	50	18.74	18.69	18.70				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.60	23.74	23.62	25.5	0		
15	QPSK	1	25	23.68	23.64	23.62				
15	QPSK	1	49	23.68	23.70	23.62				
15	QPSK	25	0	22.63	22.67	22.70	24.5	1		
15	QPSK	25	12	22.69	22.68	22.63				
15	QPSK	25	36	22.69	22.68	22.63				
15	QPSK	50	0	22.66	22.68	22.55	24.5	1		
15	QPSK	50	25	22.70	22.61	22.70				
15	QPSK	50	50	22.68	22.67	22.72				
15	16QAM	1	49	21.68	21.62	21.62	24.5	1		
15	16QAM	1	74	21.61	21.62	21.68				
15	16QAM	1	99	21.62	21.68	21.62				
15	16QAM	25	12	21.56	21.72	21.56	23.5	2		
15	16QAM	25	36	21.56	21.68	21.56				
15	16QAM	25	60	21.56	21.63	21.55				
15	16QAM	50	0	21.72	21.72	21.72	23.5	2		
15	16QAM	50	25	21.67	21.71	21.71				
15	16QAM	50	50	21.63	21.78	21.70				
15	16QAM	1	24	20.76	20.76	20.76	22.5	3		
15	16QAM	1	49	20.70	20.70	20.70				
15	16QAM	1	74	20.70	20.70	20.70				
15	16QAM	25	12	20.68	20.80	20.63	20.5	5		
15	16QAM	25	36	20.68	20.78	20.68				
15	16QAM	25	60	20.68	20.78	20.68				
15	256QAM	1	0	18.58	18.70	18.60	20.5	5		
15	256QAM	1	25	18.57	18.79	18.71				
15	256QAM	1	49	18.57	18.70	18.75				
15	256QAM	25	12	18.54	18.60	18.57	20.5	5		
15	256QAM	25	36	18.54	18.60	18.57				
15	256QAM	25	60	18.54	18.60	18.57				

Band 66 Main PA Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 150072	Power Middle Ch / Freq. 150072	Power High Ch / Freq. 150072	Time-up (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.25	22.25	22.25	24	0		
20	QPSK	1	49	22.14	22.14	22.14				
20	QPSK	1	98	22.07	22.07	22.07				
20	QPSK	50	0	21.19	21.19	21.19	23	1		
20	QPSK	50	24	21.11	21.11	21.11				
20	QPSK	50	50	21.09	21.09	21.09				
20	QPSK	100	0	21.17	21.17	21.17	23	1		
20	16QAM	1	49	21.14	21.14	21.14				
20	16QAM	1	98	21.03	21.03	21.10				
20	16QAM	50	24	20.92	20.91	20.91	22	2		
20	16QAM	50	50	20.92	20.91	20.91				
20	16QAM	50	75	20.95	20.97	20.91				
20	16QAM	100	0	20.98	20.91	20.94	22	2		
20	16QAM	100	25	20.98	20.94	20.94				
20	16QAM	100	50	20.97	20.94	20.94				
20	16QAM	1	49	20.17	20.20	20.20	22	2		
20	16QAM	1	98	20.16	20.24	20.23				
20	16QAM	1	147	20.15	20.24	20.23				
20	16QAM	50	24	19.11	19.17	19.12	21	3		
20	16QAM	50	50	19.10	19.22	19.09				
20	16QAM	50	75	19.10	19.22	19.09				
20	16QAM	100	0	18.92	18.92	18.92	19	5		
20	16QAM	100	25	17.91	17.15	17.08				
20	16QAM	100	50	17.19	17.20	17.09				
20	256QAM	1	49	17.18	17.20	17.13	19	5		
20	256QAM	1	98	17.13	17.17	17.08				
20	256QAM	1	147	17.13	17.17	17.08				
20	256QAM	50	24	17.03	17.07	17.04	19	5		
20	256QAM	50	50	17.08	17.11	17.08				
20	256QAM	50	75	17.08	17.11	17.08				
20	256QAM	100	0	17.04	17.12	17.08	19	5		
20	256QAM	100	25	17.02	17.02	17.02				
20	256QAM	100	50	17.02	17.02	17.02				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.13	22.22	22.17	24	0		
15	QPSK	1	47	22.05	22.12	22.02				
15	QPSK	1	95	21.98	22.09	22.00				
15	QPSK	36	0	21.04	21.13	21.10	23	1		
15	QPSK	36	20	21.03	21.06	21.09				
15	QPSK	36	36	21.02	21.05	21.02				
15	QPSK	75	0	21.03	21.11	21.09	23	1		
15	16QAM	1	47	21.00	21.23	21.10				
15	16QAM	1	95	20.92	21.16	21.03				
15	16QAM	36	74	20.14	20.14	20.14	23	1		
15	16QAM	36	0	20.09	20.16	20.05				
15	16QAM	36	36	20.09	20.16	20.05				
15	16QAM	75	0	20.09	20.04	20.04	22	2		
15	16QAM	75	0	20.09	20.07	20.04				
15	16QAM	75	0	20.09	20.07	20.04				
15	16QAM	1	47	20.05	20.15	20.14	22	2		
15	16QAM	1	74	20.01	20.14	20.09				
15	16QAM	1	141	20.01	20.13	20.09				
15	16QAM	36	20	19.08	19.22	19.13	21	3		
15	16QAM	36	36	19.14	19.24	19.13				
15	16QAM	36	74	19.14	19.24	19.13				
15	256QAM	1	47	17.20	17.19	17.12	19	5		
15	256QAM	1	77	17.22	17.20	17.13				
15	256QAM	1	141	17.21	17.19	17.12				
15	256QAM	36	20	17.13	17.14	17.10	19	5		
15	256QAM	36	36	17.09	17.09	17.07				
15	256QAM	36	74	17.09	17.09	17.07				
15	256QAM	75	0	17.11	17.10	17.10	19	5		
15	256QAM	75	0	17.11	17.10	17.10				



Band 38 Main PA Ant1												
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)												
37850 38000 38150												
20	QPSK	1	0	23.68	23.73	23.81	25	0				
20	QPSK	1	48	23.62	23.69	23.59						
20	QPSK	1	96	23.52	23.65	23.56						
20	QPSK	50	0	22.79	22.92	22.79						
20	QPSK	50	24	22.77	22.81	22.71						
20	QPSK	50	48	22.76	22.87	22.78	24	1				
20	QPSK	100	0	22.88	22.84	22.74						
20	16QAM	1	0	22.83	22.86	22.87						
20	16QAM	1	48	22.71	22.85	22.73						
20	16QAM	1	96	22.87	22.90	22.82						
20	16QAM	50	0	21.89	21.90	21.76	23	2				
20	16QAM	50	24	21.77	21.84	21.89						
20	16QAM	50	50	21.77	21.89	21.77						
20	16QAM	100	0	21.45	21.54	21.45						
20	64QAM	1	48	21.43	21.55	21.42						
20	64QAM	1	96	21.37	21.45	21.34	23	2				
20	64QAM	50	0	20.78	20.91	20.84						
20	64QAM	50	24	20.74	20.78	20.69						
20	64QAM	50	50	20.74	20.79	20.71						
20	64QAM	100	0	20.61	20.69	20.57						
20	256QAM	1	0	18.51	18.65	18.57	20	5				
20	256QAM	1	48	18.58	18.65	18.52						
20	256QAM	1	96	18.48	18.62	18.57						
20	256QAM	50	0	18.57	18.56	18.61						
20	256QAM	50	24	18.64	18.67	18.73						
20	256QAM	50	50	18.91	18.86	18.89	20	5				
20	256QAM	100	0	18.73	18.75	18.74						
Channel												
37825 38000 38175												
Frequency (MHz)												
15	QPSK	1	0	23.59	23.64	23.55	25	0				
15	QPSK	1	37	23.50	23.61	23.55						
15	QPSK	1	74	23.46	23.58	23.48						
15	QPSK	36	0	22.71	22.86	22.72						
15	QPSK	36	20	22.74	22.77	22.69						
15	QPSK	75	0	22.72	22.82	22.80	24	1				
15	QPSK	75	0	22.80	22.69	22.78						
15	16QAM	1	0	22.79	22.80	22.78						
15	16QAM	1	37	22.86	22.77	22.86						
15	16QAM	1	74	22.84	22.82	22.74						
15	16QAM	36	0	21.74	21.86	21.71	23	2				
15	16QAM	36	20	21.65	21.80	21.56						
15	16QAM	36	36	21.70	21.76	21.84						
15	16QAM	75	0	21.68	21.80	21.84						
15	64QAM	1	0	21.50	21.50	21.34						
15	64QAM	1	37	21.34	21.41	21.38	23	2				
15	64QAM	1	74	21.27	21.33	21.24						
15	64QAM	36	0	20.83	20.86	20.78						
15	64QAM	36	20	20.89	20.71	20.59						
15	64QAM	75	0	20.25	20.35	20.45						
15	256QAM	1	0	18.39	18.51	18.42	20	5				
15	256QAM	1	37	18.52	18.52	18.45						
15	256QAM	1	74	18.45	18.57	18.51						
15	256QAM	36	0	18.94	18.85	18.88						
15	256QAM	36	20	18.79	18.83	18.80						
15	256QAM	36	36	18.86	18.86	18.86	20	5				
15	256QAM	75	0	18.60	18.68	18.60						
Channel												
37850 38000 38200												
Frequency (MHz)												
10	QPSK	1	0	23.59	23.64	23.54	25	0				
10	QPSK	1	25	23.54	23.62	23.58						
10	QPSK	1	48	23.47	23.53	23.48						
10	QPSK	25	0	22.83	22.83	22.75						
10	QPSK	25	12	22.85	22.69	22.57						
10	QPSK	25	25	22.81	22.79	22.67	24	1				
10	QPSK	25	12	22.85	22.74	22.71						
10	16QAM	1	0	22.71	22.80	22.80						
10	16QAM	1	25	22.67	22.73	22.66						
10	16QAM	1	48	22.73	22.87	22.74						
10	16QAM	25	0	21.75	21.82	21.75	23	2				
10	16QAM	25	12	21.68	21.78	21.54						
10	16QAM	25	25	21.73	21.80	21.89						
10	16QAM	50	0	21.74	21.79	21.69						
10	64QAM	1	0	21.44	21.50	21.38						
10	64QAM	1	25	21.35	21.43	21.36	23	2				
10	64QAM	1	48	21.27	21.31	21.27						
10	64QAM	25	0	20.70	20.78	20.78						
10	64QAM	25	12	20.62	20.63	20.57						
10	64QAM	25	25	20.60	20.67	20.61						
10	64QAM	50	0	20.57	20.60	20.45	22	3				
10	256QAM	1	0	18.42	18.59	18.47						
10	256QAM	1	25	18.45	18.61	18.47						
10	256QAM	1	48	18.43	18.48	18.51						
10	256QAM	25	0	18.88	18.88	18.77						
10	256QAM	25	12	18.77	18.83	18.86	20	5				
10	256QAM	25	25	18.87	18.86	18.76						
10	256QAM	50	0	18.68	18.71	18.67						
Channel												
38175 38200 38200												
Frequency (MHz)												
5	QPSK	1	0	23.57	23.69	23.54	25	0				
5	QPSK	1	12	23.51	23.58	23.50						
5	QPSK	1	24	23.38	23.52	23.43						
5	QPSK	12	0	22.71	22.89	22.72						
5	QPSK	12	7	22.84	22.86	22.86						
5	QPSK	12	18	22.85	22.72	22.69	24	1				
5	QPSK	25	0	22.59	22.79	22.65						
5	16QAM	1	0	22.73	22.91	22.79						
5	16QAM	1	12	22.67	22.77	22.68						
5	16QAM	1	24	22.80	22.81	22.74						
5	16QAM	12	0	21.74	21.88	21.65	23	2				
5	16QAM	12	7	21.64	21.79	21.65						
5	16QAM	12	13	21.74	21.78	21.72						
5	16QAM	25	0	21.74	21.74	21.72						
5	64QAM	1	0	21.35	21.43	21.38						
5	64QAM	1	12	21.30	21.42	21.38	23	2				
5	64QAM	1	24	21.27	21.32	21.22						
5	64QAM	12	0	20.73	20.84	20.86						
5	64QAM	12	7	20.87	20.74	20.55						
5	64QAM	12	13	20.89	20.74	20.67						
5	64QAM	25	0	20.74	20.84	20.46	22	3				
5	256QAM	1	0	18.40	18.57	18.45						
5	256QAM	1	12	18.54	18.58	18.41						
5	256QAM	1	24	18.37	18.58	18.43						
5	256QAM	12	0	18.67	18.83	18.72						
5	256QAM	12	7	18.80	18.84	18.80	20	5				
5	256QAM	12	13	18.85	18.89	18.77						
5	256QAM	25	0	18.63	18.68	18.61						

Band 41 Main PA Ant1											
BW [MHz]	Modulation	RB Size	RB Offset	Power (Ch / Freq)	Power (Ch / Freq)	Power (Ch / Freq)	Power (Ch / Freq)	Power (Ch / Freq)	Tune-up limit (dBm)	MPR (dB)	
Channel											
Frequency (MHz)											
38750 40185 40400 41055 41460											
20	QPSK	1	0	23.64	23.75	23.81	23.70	23.69	23.69	24.5	0
20	QPSK	1	48	23.63	23.73	23.75	23.69	23.62			
20	QPSK	1	96	23.53	23.60	23.70	23.67	23.51			
20	QPSK	50	24	22.86	22.94	22.94	22.86	22.85		23.5	1
20	QPSK	50	24	22.85	22.94	22.94	22.85	22.85			
20	QPSK	100	0	22.75	22.77	22.83	22.85	22.80			
20	16QAM	1	0	22.91	22.90	23.05	22.99	22.88		23.5	1
20	16QAM	1	48	22.84	22.83	22.99	22.94	22.83			
20	16QAM	1	96	22.94	22.95	23.05	22.99	22.92			
20	16QAM	50	0	21.88	21.84	22.01	21.89	21.93		23.5	2
20	16QAM	50	24	21.87	21.84	22.01	21.89	21.93			
20	16QAM	100	0	21.80	21.84	21.92	21.81	21.84			
20	16QAM	50	24	21.80	21.84	21.92	21.81	21.84		23.5	2
20	64QAM	1	48	21.48	21.57	21.62	21.50	21.46			
20	64QAM	1	96	21.47	21.52	21.57	21.45	21.38			
20	64QAM	50	0	20.91	20.86	21.02	20.95	20.93			
20	64QAM	50	24	20.78	20.81	20.99	20.85	20.93		21.5	3
20	64QAM	100	0	20.78	20.86	20.90	20.78	20.85			
20	64QAM	100	0	20.71	20.78	20.88	20.67	20.72			
20	256QAM	1	0	18.84	18.84	18.81	18.94	18.70		19.5	5
20	256QAM	1	48	18.82	18.79	18.87	18.87	18.68			
20	256QAM	1	96	18.87	18.83	18.88	18.84	18.57			
20	256QAM	50	0	17.59	17.59	17.59	17.59	17.56		19.5	5
20	256QAM	50	24	18.85	18.91	18.97	18.87	18.88			
20	256QAM	50	50	18.85	18.94	19.01	18.92	18.85			
20	256QAM	100	0	18.70	18.78	18.88	18.68	18.77			
Channel											
Frequency (MHz)											
38750 40185 40400 41055 41460											
15	QPSK	1	0	23.63	23.73	23.75	23.67	23.65	23.65	24.5	0
15	QPSK	1	37	23.51	23.63	23.61	23.63	23.54			
15	QPSK	1	74	23.45	23.53	23.62	23.55	23.46			
15	QPSK	50	24	22.81	22.91	22.92	22.81	22.81		23.5	1
15	QPSK	50	24	22.78	22.74	22.85	22.81	22.74			
15	QPSK	100	0	22.76	22.78	22.85	22.81	22.68			
15	QPSK	75	0	22.71	22.69	22.82	22.73	22.67			
15	16QAM	1	0	22.81	22.75	22.85	22.85	22.80		23.5	1
15	16QAM	1	37	22.73	22.78	22.87	22.78	22.73			
15	16QAM	1	74	22.68	22.83	22.88	22.91	22.82			
15	16QAM	50	0	21.75	21.80	21.96	21.82	21.79		22.5	2
15	16QAM	50	24	21.78	21.78	21.92	21.78	21.78			
15	16QAM	36	36	21.78	21.72	21.87	21.81	21.83			
15	64QAM	1	74	21.74	21.74	21.82	21.68	21.83			
15	64QAM	1	0	21.36	21.60	21.55	21.62	21.49		22.5	2
15	64QAM	1	37	21.42	21.51	21.68	21.37	21.40			
15	64QAM	1	74	21.33	21.43	21.52	21.37	21.40			
15	64QAM	36	0	20.86	20.82	20.94	20.92	20.82			
15	64QAM	36	20	20.67	20.59	20.89	20.66	20.67		21.5	3
15	64QAM	36	20	20.67	20.59	20.89	20.66	20.67			
15	64QAM	75	0	20.68	20.65	20.69	20.62	20.67			
15	256QAM	1	0	18.57	18.57	18.57	18.57	18.57		19.5	5
15	256QAM	1	37	18.54	18.62	18.74	18.52	18.59			
15	256QAM	1	74	18.53	18.58	18.59	18.49	18.53			
15	256QAM	50	0	17.56	17.56	17.56	17.56	17.56		19.5	5
15	256QAM	50	24	18.79	18.77	18.91	18.83	18.84			
15	256QAM	36	39	18.76	18.92	18.99	18.92	18.74			
15	256QAM	75	0	18.60	18.74	18.80	18.64	18.66			
Channel											
Frequency (MHz)											
38750 40185 40400 41055 41460											
10	QPSK	1	0	23.61	23.71	23.73	23.63	23.61	23.61	24.5	0
10	QPSK	1	25	23.57	23.61	23.61	23.61	23.55			
10	QPSK	1	50	23.49	23.49	23.55	23.55	23.49		23.5	1
10	QPSK	25	0	22.86	22.71	22.97	22.75	22.70			
10	QPSK	25	12	22.87	22.75	22.94	22.78	22.75			
10	QPSK	25	12	22.70	22.83	22.97	22.70	22.72		23.5	1
10	QPSK	50	0	22.84	22.69	22.79	22.73	22.65			
10	16QAM	1	0	22.85	22.80	22.95	22.89	22.79			
10	16QAM	1	25	22.77	22.79	22.92	22.79	22.72		23.5	1
10	16QAM	1	49	22.83	22.81	22.94	22.87	22.84			
10	16QAM	25	0	21.79	21.60	21.86	21.81	21.75			
10	16QAM	25	12	21.68	21.68	21.84	21.75	21.76		22.5	2
10	16QAM	25	25	21.75	21.79	21.91	21.82	21.87			
10	64QAM	1	0	21.77	21.78	21.84	21.78	21.74			
10	64QAM	1	0	21.40	21.57	21.47	21.40	21.49		22.5	2
10	64QAM	1	25	21.40	21.49	21.55	21.45	21.49			
10	64QAM	1	25	21.44	21.43	21.52	21.43	21.49			
10	64QAM	25	0	20.81	20.81	20.99	20.94	20.90			
10	64QAM	25	12	20.70	20.77	20.75	20.76	20.66		21.5	3
10	64QAM	25	12	20.69	20.69	20.88	20.73	20.62			
10	64QAM	50	0	20.67	20.65	20.68	20.61	20.59			
10	256QAM	1	0	18.53	18.53	18.53	18.53	18.53		19.5	5
10	256QAM	1	25	18.57	18.61	18.73	18.43	18.53			
10	256QAM	1	49	18.50	18.50	18.57	18.52	18.42			
10	256QAM	25	0	18.40	18.40	18.40	18.40	18.40		19.5	5
10	256QAM	25	12	18.62	18.80	18.86	18.80	18.78			
10	256QAM	25	12	18.73	18.90	18.98	18.91	18.82			
10	256QAM	50	0	18.73	18.90	18.98	18.91	18.82			
Channel											
Frequency (MHz)											
38750 40185 40400 41055 41460											
5	QPSK	1	0	23.53	23.63	23.65	23.55	23.55	23.55	24.5	0
5	QPSK	1	12	23.60	23.63	23.61	23.63	23.55			
5	QPSK	1	24	23.43	23.43	23.43	23.43	23.43			
5	QPSK	12	0	22.85	22.71	22.97	22.77	22.72		23.5	1
5	QPSK	12	7	22.70	22.75	22.91	22.75	22.81			
5	QPSK	25	0	22.84	22.69	22.78	22.81	22.67			
5	16QAM	1	0	22.79	22.83	22.92	22.99	22.76		23.5	1
5	16QAM	1	12	22.73	22.78	22.92	22.78	22.72			
5	16QAM	1	24	22.89	22.88	23.01	22.85	22.81			
5	16QAM	12	7	21.79	21.78	21.91	21.79	21.81		22.5	2
5	16QAM	12	13	21.77	21.69	21.81	21.75	21.91			
5	64QAM	1	0	21.37	21.61	21.48	21.47	21.39		22.5	2
5	64QAM	1	12	21.36	21.43	21.57	21.47	21.41			
5	64QAM	1	24	21.31	21.31	21.47	21.30	21.27			
5	64QAM	12	0	20.77	20.72	20.89	20.91	20.83			
5	64QAM	12	7	20.65	20.67	20.89	20.72	20.65		21.5	3
5	64QAM	12	13	20.68	20.74	20.72	20.67	20.61			
5	64QAM	25	0	20.67	20.56	20.74	20.61	20.56			
5	256QAM	1	0	18.52	18.52	18.52	18.52	18.52		19.5	5
5	256QAM	1	24	18.43	18.55	18.64	18.49	18.51			
5	256QAM	1	48	18.49	18.61	18.63	18.49	18.51			
5	256QAM	12	7	18.77	18.87	18.88	18.76	18.78		19.5	5
5	256QAM	12	13	18.76	18.91	18.97	18.96	18.79			
5	256QAM	25	0	18.65	18.65	18.65	18.65	18.65			



Band 42 FCC Part27Q Main PA Ant1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPE (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.40	23.50	23.52	25	0				
20	QPSK	1	49	23.38	23.41	23.30						
20	QPSK	1	99	23.35	23.38	23.28						
20	QPSK	50	0	22.30	22.41	22.51						
20	QPSK	50	24	22.26	22.35	22.30	24	1				
20	QPSK	50	50	22.24	22.32	22.20						
20	QPSK	100	0	22.30	22.36	22.31						
20	16QAM	1	0	22.27	22.31	22.17						
20	16QAM	1	49	22.18	22.28	22.18	24	1				
20	16QAM	1	99	22.13	22.24	22.29						
20	16QAM	50	0	21.28	21.37	21.26						
20	16QAM	50	24	21.22	21.28	21.21						
20	16QAM	50	50	21.22	21.28	21.20	23	2				
20	16QAM	100	0	21.22	21.28	21.18						
20	64QAM	1	0	21.14	21.22	21.15						
20	64QAM	1	49	21.08	21.16	21.11						
20	64QAM	1	99	21.10	21.15	21.10	23	2				
20	64QAM	50	0	20.28	20.37	20.22						
20	64QAM	50	24	20.18	20.27	20.24						
20	64QAM	50	50	20.27	20.31	20.16						
20	64QAM	100	0	20.17	20.23	20.19	22	3				
20	256QAM	1	0	18.18	18.27	18.22						
20	256QAM	1	49	18.20	18.33	18.21						
20	256QAM	1	99	18.21	18.26	18.17						
20	256QAM	50	0	18.20	18.26	18.14	20	5				
20	256QAM	50	24	18.11	18.21	18.20						
20	256QAM	50	50	18.19	18.24	18.12						
20	256QAM	100	0	18.23	18.27	18.13						
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.23	23.35	23.22	25	0				
15	QPSK	1	37	23.31	23.26	23.18						
15	QPSK	1	74	23.28	23.26	23.18						
15	QPSK	36	0	22.17	22.29	22.26						
15	QPSK	36	20	22.11	22.22	22.23	24	1				
15	QPSK	36	56	22.06	22.28	22.27						
15	QPSK	75	0	22.22	22.32	22.23						
15	16QAM	1	0	22.23	22.20	22.07						
15	16QAM	1	37	22.14	22.21	22.11	24	1				
15	16QAM	1	74	22.08	22.10	22.13						
15	16QAM	36	0	21.17	21.33	21.23						
15	16QAM	36	20	21.15	21.21	21.08						
15	16QAM	36	56	21.08	21.19	21.15	23	2				
15	16QAM	75	0	21.21	21.18	21.12						
15	64QAM	1	0	21.05	21.11	21.10						
15	64QAM	1	37	21.10	21.13	21.07						
15	64QAM	1	74	21.04	21.16	21.15	23	2				
15	64QAM	36	0	20.15	20.30	20.15						
15	64QAM	36	20	20.05	20.15	20.19						
15	64QAM	36	56	20.17	20.18	20.14						
15	64QAM	75	0	20.13	20.15	20.04	22	3				
15	256QAM	1	0	18.13	18.24	18.08						
15	256QAM	1	37	18.16	18.24	18.15						
15	256QAM	1	74	18.18	18.20	18.02						
15	256QAM	36	0	18.09	18.26	18.21	20	5				
15	256QAM	36	20	18.01	18.09	18.08						
15	256QAM	36	56	18.07	18.16	18.19						
15	256QAM	75	0	18.16	18.16	18.03						
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.30	23.40	23.40	25	0				
10	QPSK	1	25	23.26	23.33	23.21						
10	QPSK	1	49	23.25	23.28	23.22						
10	QPSK	1	99	23.15	23.26	23.17						
10	QPSK	25	12	22.11	22.27	22.26	24	1				
10	QPSK	25	25	22.17	22.24	22.10						
10	QPSK	50	0	22.22	22.21	22.20						
10	16QAM	1	0	22.15	22.22	22.08						
10	16QAM	1	25	22.08	22.16	22.06	24	1				
10	16QAM	1	49	22.08	22.18	22.12						
10	16QAM	25	0	21.16	21.30	21.12						
10	16QAM	25	75	21.12	21.17	21.14						
10	16QAM	25	99	21.17	21.23	21.15	23	2				
10	16QAM	50	0	21.18	21.25	21.07						
10	64QAM	1	0	21.04	21.11	21.10						
10	64QAM	1	25	21.09	21.14	21.03						
10	64QAM	1	49	21.02	21.11	21.02	23	2				
10	64QAM	25	0	20.15	20.26	20.13						
10	64QAM	25	12	20.02	20.19	20.11						
10	64QAM	25	25	20.12	20.23	20.07						
10	64QAM	50	0	20.03	20.17	20.05	22	3				
10	256QAM	1	0	18.03	18.12	18.06						
10	256QAM	1	25	18.09	18.26	18.06						
10	256QAM	1	49	18.14	18.19	18.05						
10	256QAM	25	0	18.14	18.25	18.05	20	5				
10	256QAM	25	12	18.00	18.11	18.02						
10	256QAM	25	25	18.16	18.14	18.01						
10	256QAM	50	0	18.14	18.12	18.01						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.37	23.38	23.32	25	0				
5	QPSK	1	12	23.20	23.33	23.24						
5	QPSK	1	24	23.27	23.30	23.15						
5	QPSK	12	0	22.29	22.34	22.20						
5	QPSK	12	7	22.18	22.24	22.24	24	1				
5	QPSK	12	13	22.18	22.29	22.12						
5	QPSK	25	0	22.21	22.24	22.24						
5	16QAM	1	0	22.23	22.19	22.07						
5	16QAM	1	12	22.09	22.16	22.04	24	1				
5	16QAM	1	24	22.05	22.16	22.11						
5	16QAM	12	0	21.24	21.28	21.19						
5	16QAM	12	7	21.15	21.17	21.14						
5	16QAM	12	13	21.18	21.24	21.11	23	2				
5	16QAM	25	0	21.16	21.25	21.15						
5	64QAM	1	0	21.11	21.14	21.08						
5	64QAM	1	12	21.08	21.12	21.03						
5	64QAM	1	24	21.07	21.03	21.06	23	2				
5	64QAM	12	0	20.12	20.23	20.11						
5	64QAM	12	7	20.02	20.19	20.10						
5	64QAM	25	0	20.06	20.15	20.07						
5	256QAM	1	0	18.06	18.23	18.18	20	5				
5	256QAM	1	12	18.12	18.29	18.08						
5	256QAM	1	24	18.06	18.16	18.03						
5	256QAM	12	0	18.11	18.21	18.19						
5	256QAM	12	7	18.00	18.13	18.00	20	5				
5	256QAM	12	13	18.15	18.17	18.02						
5	256QAM	25	0	18.08	18.14	18.01						
5	256QAM	25	7	18.08	18.14	18.01						

Band 48_FCC Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.50	23.53	23.46	25	0	
20	QPSK	1	49	23.40	23.49	23.42			
20	QPSK	1	99	23.46	23.53	23.44			
20	QPSK	50	0	22.59	22.51	22.47			
20	QPSK	50	24	22.38	22.42	22.34	24	1	
20	QPSK	50	50	22.35	22.48	22.30			
20	QPSK	100	0	22.40	22.50	22.36	24	1	
20	16QAM	1	0	22.46	22.47	22.38			
20	16QAM	1	49	22.37	22.44	22.33	24	1	
20	16QAM	1	99	22.21	22.30	22.19			
20	16QAM	50	0	21.35	21.51	21.42	23	2	
20	16QAM	50	24	21.30	21.37	21.28			
20	16QAM	50	50	21.36	21.40	21.26			
20	16QAM	100	0	21.32	21.36	21.26			
20	16QAM	1	49	21.20	21.31	21.25	23	2	
20	16QAM	1	99	21.15	21.23	21.08			
20	16QAM	50	0	20.38	20.50	20.37	22	3	
20	16QAM	50	24	20.32	20.38	20.27			
20	16QAM	50	50	20.45	20.48	20.33	22	3	
20	16QAM	100	0	20.28	20.36	20.24			
20	256QAM	1	0	18.28	18.32	18.22	20	5	
20	256QAM	1	49	18.29	18.47	18.44			
20	256QAM	1	99	18.37	18.42	18.36			
20	256QAM	50	0	18.21	18.27	18.22			
20	256QAM	50	24	18.21	18.30	18.23	20	5	
20	256QAM	50	50	18.25	18.32	18.17			
20	256QAM	100	0	18.15	18.24	18.13	20	5	
20	256QAM	100	0	18.15	18.22	18.16			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.41	23.45	23.40	25	0	
15	QPSK	1	37	23.31	23.41	23.28			
15	QPSK	1	74	23.41	23.47	23.38			
15	QPSK	50	0	22.38	22.48	22.34			
15	QPSK	50	20	22.27	22.38	22.20	24	1	
15	QPSK	50	50	22.21	22.30	22.17			
15	QPSK	75	0	22.26	22.36	22.22	24	1	
15	16QAM	1	0	22.22	22.39	22.22			
15	16QAM	1	37	22.22	22.39	22.22	24	1	
15	16QAM	1	74	22.13	22.23	22.08			
15	16QAM	50	0	21.28	21.47	21.39	23	2	
15	16QAM	50	20	21.28	21.37	21.26			
15	16QAM	50	50	21.27	21.35	21.20			
15	16QAM	100	0	21.29	21.31	21.08			
15	16QAM	1	0	21.11	21.20	21.06	23	2	
15	16QAM	1	37	21.10	21.24	21.16			
15	16QAM	1	74	21.13	21.18	21.05	23	2	
15	16QAM	50	0	20.28	20.35	20.22			
15	16QAM	50	20	20.13	20.22	20.14	22	3	
15	16QAM	50	50	20.26	20.28	20.14			
15	16QAM	75	0	20.19	20.26	20.14	22	3	
15	256QAM	1	0	18.13	18.18	18.07			
15	256QAM	1	37	18.13	18.38	18.23	20	5	
15	256QAM	1	74	18.28	18.28	18.32			
15	256QAM	50	0	18.16	18.26	18.15			
15	256QAM	50	20	18.08	18.15	18.13			
15	256QAM	50	50	18.11	18.22	18.08	20	5	
15	256QAM	100	0	18.27	18.30	18.13			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.29	23.38	23.34	25	0	
10	QPSK	1	25	23.34	23.36	23.33			
10	QPSK	1	50	23.37	23.41	23.37			
10	QPSK	25	0	22.34	22.45	22.36			
10	QPSK	25	12	22.31	22.33	22.22	24	1	
10	QPSK	25	37	22.30	22.40	22.21			
10	QPSK	50	0	22.33	22.37	22.21	24	1	
10	16QAM	1	0	22.21	22.44	22.24			
10	16QAM	1	25	22.13	22.28	22.19	24	1	
10	16QAM	1	50	22.12	22.24	22.14			
10	16QAM	25	0	21.26	21.43	21.29	23	2	
10	16QAM	25	12	21.25	21.33	21.13			
10	16QAM	25	25	21.25	21.32	21.23			
10	16QAM	50	0	21.25	21.31	21.15			
10	16QAM	1	0	21.15	21.13	21.11	23	2	
10	16QAM	1	25	21.02	21.28	21.15			
10	16QAM	1	50	21.02	21.11	21.05	23	2	
10	16QAM	25	0	20.39	20.46	20.30			
10	16QAM	25	12	20.30	20.26	20.20	22	3	
10	16QAM	25	25	20.36	20.30	20.24			
10	16QAM	50	0	20.19	20.27	20.17	22	3	
10	16QAM	50	12	20.21	20.18	20.16			
10	256QAM	1	0	18.14	18.35	18.31	20	5	
10	256QAM	1	25	18.14	18.35	18.31			
10	256QAM	1	50	18.32	18.33	18.25			
10	256QAM	25	0	18.21	18.31	18.25			
10	256QAM	25	12	18.15	18.24	18.11	20	5	
10	256QAM	25	25	18.21	18.18	18.07			
10	256QAM	50	0	18.21	18.18	18.05	20	5	
10	256QAM	50	12	18.25	18.26	18.17			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.37	23.50	23.38	25	0	
5	QPSK	1	12	23.46	23.53	23.34			
5	QPSK	1	24	23.40	23.43	23.35			
5	QPSK	12	0	22.27	22.30	22.41			
5	QPSK	12	7	22.29	22.33	22.29	24	1	
5	QPSK	12	14	22.24	22.33	22.25			
5	QPSK	25	0	22.28	22.38	22.24	24	1	
5	16QAM	1	0	22.22	22.44	22.30			
5	16QAM	1	12	22.15	22.41	22.25	24	1	
5	16QAM	1	24	22.11	22.19	22.11			
5	16QAM	12	0	21.22	21.40	21.26	23	2	
5	16QAM	12	7	21.28	21.31	21.21			
5	16QAM	12	14	21.28	21.35	21.13			
5	16QAM	25	0	21.13	21.22	21.15			
5	16QAM	1	12	21.10	21.19	21.15	23	2	
5	16QAM	1	24	21.09	21.17	21.17			
5	16QAM	12	0	20.26	20.42	20.30	22	3	
5	16QAM	12	7	20.29	20.27	20.13			
5	16QAM	25	0	20.30	20.36	20.20	22	3	
5	16QAM	25	13	20.30	20.30	20.17			
5	16QAM	50	0	20.22	20.30	20.12	20	5	
5	16QAM	50	12	20.25	20.25	20.12			
5	256QAM	1	0	18.21	18.42	18.32	20	5	
5	256QAM	1	24	18.34	18.32	18.21			
5	256QAM	1	48	18.29	18.23	18.17			
5	256QAM	12	0	18.09	18.20	18.15			
5	256QAM	12	13	18.12	18.29	18.13	20	5	
5	256QAM	12	25	18.25	18.31	18.17			

GSM1900 Ant2 Default									
GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		29.89	29.95	29.93	31.00	20.89	20.95	20.93	22.00
GPRS 1 Tx slot		29.92	30.01	29.95	31.00	20.92	21.01	20.95	22.00
GPRS 2 Tx slots		27.08	27.11	27.03	28.00	21.08	21.11	21.03	22.00
GPRS 3 Tx slots		25.21	25.34	25.26	26.20	20.95	21.08	21.00	21.94
GPRS 4 Tx slots		23.92	24.02	23.90	25.00	20.82	21.02	20.90	22.00
EDGE 1 Tx slot		26.15	26.26	26.18	27.00	17.15	17.26	17.18	18.00
EDGE 2 Tx slots		23.36	23.44	23.35	24.00	17.36	17.44	17.35	18.00
EDGE 3 Tx slots		21.53	21.56	21.50	22.20	17.27	17.30	17.24	17.94
EDGE 4 Tx slots		20.54	20.68	20.60	21.00	17.54	17.68	17.60	18.00

		WCDMA II Ant2 Default				WCDMA IV Ant2 Default			
Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6		
3GPP Rel 99	AMR 12.2Kbps	23.47	23.56	23.53	25.00	23.43	23.55	23.49	25.00
3GPP Rel 99	RMC 12.2Kbps	23.50	23.61	23.56	25.00	23.50	23.57	23.52	25.00
3GPP Rel 6	HSDPA Subtest-1	22.48	22.69	22.63	24.00	22.52	22.58	22.59	24.00
3GPP Rel 6	HSDPA Subtest-2	22.54	22.53	22.56	24.00	22.57	22.60	22.55	24.00
3GPP Rel 6	HSDPA Subtest-3	22.09	22.11	22.02	23.50	22.07	22.16	22.02	23.50
3GPP Rel 6	HSDPA Subtest-4	22.00	22.02	22.00	23.50	21.94	22.01	22.03	23.50
3GPP Rel 6	DC-HSDPA Subtest-1	22.56	22.53	22.57	24.00	22.54	22.59	22.50	24.00
3GPP Rel 6	DC-HSDPA Subtest-2	22.48	22.55	22.46	24.00	22.47	22.55	22.43	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.86	22.05	21.93	23.50	21.94	22.08	21.93	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.90	22.02	21.96	23.50	21.82	21.96	21.93	23.50
3GPP Rel 6	HSUPA Subtest-1	22.34	22.47	22.50	24.00	22.41	22.49	22.50	24.00
3GPP Rel 6	HSUPA Subtest-2	20.56	20.65	20.56	22.00	20.56	20.64	20.57	22.00
3GPP Rel 6	HSUPA Subtest-3	21.62	21.71	21.68	23.00	21.62	21.63	21.60	23.00
3GPP Rel 6	HSUPA Subtest-4	20.46	20.50	20.51	22.00	20.46	20.59	20.42	22.00
3GPP Rel 6	HSUPA Subtest-5	22.39	22.60	22.42	24.00	22.40	22.59	22.45	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.07	20.14	20.08	21.50	20.11	20.21	20.06	21.50

Band 2 Main PA Ant2												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.54	23.60	23.67	25	0				
20	QPSK	1	49	23.48	23.51	23.60						
20	QPSK	1	99	23.40	23.47	23.45	24	1				
20	QPSK	50	0	22.64	22.70	22.72						
20	QPSK	50	24	22.57	22.69	22.58	24	1				
20	QPSK	50	50	22.52	22.66	22.59						
20	QPSK	100	0	22.62	22.75	22.71	24	1				
20	16QAM	1	0	22.91	22.99	22.89						
20	16QAM	1	49	22.87	22.93	22.81	23	2				
20	16QAM	1	99	22.80	22.89	22.82						
20	16QAM	50	0	21.80	21.73	21.82	23	2				
20	16QAM	50	24	21.72	21.72	21.57						
20	16QAM	50	50	21.67	21.74	21.81	22	3				
20	16QAM	100	0	21.65	21.71	21.81						
20	84QAM	1	0	21.81	21.94	21.94	23	2				
20	84QAM	1	49	21.78	21.88	21.78						
20	84QAM	1	99	21.81	21.90	21.83	22	3				
20	84QAM	50	24	20.58	20.70	20.61						
20	84QAM	50	50	20.59	20.67	20.55	20	5				
20	256QAM	1	0	18.80	18.83	18.77						
20	256QAM	1	49	18.76	18.72	18.70	20	5				
20	256QAM	1	99	18.70	18.80	18.70						
20	256QAM	50	0	18.69	18.76	18.72	20	5				
20	256QAM	50	24	18.67	18.68	18.54						
20	256QAM	50	50	18.50	18.60	18.45	20	5				
20	256QAM	100	0	18.49	18.61	18.41						
Channel												
Frequency (MHz)												
18	QPSK	1	0	18.57	18.60	18.62	25	0				
18	QPSK	1	0	23.43	23.49	23.40						
18	QPSK	1	37	23.38	23.37	23.24	24	1				
18	QPSK	1	74	23.30	23.42	23.30						
18	QPSK	36	0	22.58	22.69	22.68	24	1				
18	QPSK	36	36	22.48	22.60	22.48						
18	QPSK	36	39	22.48	22.57	22.49	24	1				
18	QPSK	75	0	22.57	22.69	22.59						
18	16QAM	75	0	22.57	22.69	22.59	24	1				
18	16QAM	1	0	22.84	22.77	22.77						
18	16QAM	1	37	22.58	22.67	22.49	23	2				
18	16QAM	1	74	22.80	22.81	22.67						
18	16QAM	36	0	21.97	21.99	21.48	22	3				
18	16QAM	36	20	21.46	21.59	21.50						
18	16QAM	36	39	21.56	21.61	21.55	22	3				
18	84QAM	1	0	21.72	21.84	21.77						
18	84QAM	1	37	21.63	21.80	21.64	22	3				
18	84QAM	1	74	21.72	21.75	21.75						
18	84QAM	36	0	20.71	20.64	20.61	20	5				
18	84QAM	36	20	20.48	20.58	20.47						
18	84QAM	36	39	20.48	20.53	20.45	20	5				
18	84QAM	75	0	20.49	20.60	20.46						
18	256QAM	1	0	18.66	18.67	18.67	20	5				
18	256QAM	1	37	18.48	18.58	18.47						
18	256QAM	1	74	18.58	18.70	18.58	20	5				
18	256QAM	36	0	18.58	18.68	18.48						
18	256QAM	36	20	18.52	18.64	18.40	20	5				
18	256QAM	36	39	18.41	18.54	18.38						
18	256QAM	75	0	18.52	18.62	18.47	20	5				
Channel												
Frequency (MHz)												
18	QPSK	1	0	18.55	18.60	18.60			25	0		
18	QPSK	1	25	23.41	23.46	23.36						
18	QPSK	1	49	23.29	23.42	23.31	24	1				
18	QPSK	25	0	22.56	22.66	22.66						
18	QPSK	25	12	22.44	22.65	22.40	24	1				
18	QPSK	25	25	22.48	22.53	22.47						
18	16QAM	75	0	22.56	22.68	22.58	24	1				
18	16QAM	1	0	22.84	22.84	22.79						
18	16QAM	1	25	22.63	22.68	22.52	23	2				
18	16QAM	1	49	22.76	22.78	22.63						
18	16QAM	25	0	21.52	21.64	21.51	23	2				
18	16QAM	25	12	21.49	21.68	21.43						
18	16QAM	36	0	21.40	21.68	21.30	22	3				
18	16QAM	36	0	21.55	21.63	21.51						
18	84QAM	1	0	21.69	21.87	21.81	23	2				
18	84QAM	1	24	21.75	21.74	21.57						
18	84QAM	1	49	21.66	21.85	21.77	22	3				
18	84QAM	25	0	20.69	20.73	20.64						
18	84QAM	25	12	20.44	20.46	20.38	20	5				
18	84QAM	25	25	20.53	20.53	20.46						
18	84QAM	50	0	20.46	20.55	20.45	20	5				
18	256QAM	1	0	18.68	18.68	18.68						
18	256QAM	1	25	18.50	18.64	18.63	20	5				
18	256QAM	1	49	18.58	18.75	18.59						
18	256QAM	25	0	18.50	18.56	18.49	20	5				
18	256QAM	25	12	18.50	18.56	18.41						
18	256QAM	25	25	18.46	18.56	18.41	20	5				
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.43	23.53	23.43			25	0		
5	QPSK	1	12	23.38	23.39	23.32						
5	QPSK	1	24	23.32	23.35	23.32	24	1				
5	QPSK	12	0	22.56	22.67	22.67						
5	QPSK	12	7	22.54	22.54	22.44	24	1				
5	QPSK	12	13	22.42	22.54	22.44						
5	QPSK	25	0	22.48	22.53	22.48	24	1				
5	16QAM	1	0	22.83	22.89	22.84						
5	16QAM	1	12	22.59	22.64	22.56	23	2				
5	16QAM	1	24	22.69	22.77	22.64						
5	16QAM	12	0	21.54	21.63	21.58	23	2				
5	16QAM	12	7	21.49	21.60	21.45						
5	16QAM	12	13	21.57	21.65	21.50	23	2				
5	16QAM	25	0	21.53	21.64	21.52						
5	84QAM	1	0	21.66	21.86	21.75	23	2				
5	84QAM	1	12	21.71	21.79	21.70						
5	84QAM	1	24	21.74	21.82	21.80	22	3				
5	84QAM	12	0	20.61	20.74	20.69						
5	84QAM	12	7	20.51	20.62	20.34	20	5				
5	84QAM	12	13	20.53	20.54	20.43						
5	84QAM	2		20.57	20.67	20.51	20	5				
5	256QAM	1	0	18.71	18.73	18.63						
5	256QAM	1	12	18.59	18.59	18.48	20	5				
5	256QAM	1	24	18.62	18.73	18.65						
5	256QAM	12	0	18.64	18.70	18.64	20	5				
5	256QAM	12	7	18.54	18.63	18.48						
5	256QAM	12	13	18.54	18.64	18.49	20	5				
5	256QAM	25	0	18.46	18.56	18.51						
5	256QAM	25	12	18.46	18.56	18.41	20	5				
Channel												
Frequency (MHz)												
3	QPSK	1	0	23.47	23.50	23.38			25	0		
3	QPSK	1	8	23.40	23.39	23.28						
3	QPSK	1	16	23.34	23.37	23.23	24	1				
3	QPSK	8	0	22.57	22.62	22.62						
3	QPSK	8	8	22.44	22.60	22.49	24	1				
3	QPSK	8	16	22.37	22.58	22.33						
3	QPSK	15	0	22.59	22.69	22.64	24	1				
3	16QAM	1	0	22.83	22.88	22.88						
3	16QAM	1	8	22.81	22.84	22.81	24	1				
3	16QAM	1	16	22.73	22.76	22.72						
3	16QAM	8	0	21.46	21.68	21.49	23	2				
3	16QAM	8	8	21.42	21.67	21.47						
3	84QAM	8	7	21.61	21.64	21.48	23	2				
3	84QAM	1	0	21.52	21.66	21.58						
3	84QAM	1	8	21.79	21.82	21.71	23	2				
3	84QAM	1	8	21.69	21.74	21.73						
3	84QAM	1	16	21.72	21.84	21.71	23	2				
3	84QAM	8	4	20.47	20.56	20.48						
3	84QAM	8	8	20.44	20.51	20.44	20	5				
3	84QAM	15	0	20.47	20.58	20.46						
3	256QAM	1	0	18.76	18.77	18.72	20	5				
3	256QAM	1	8	18.62	18.63	18.61						
3	256QAM	1	16	18.62	18.72	18.65	20	5				
3	256QAM	8	0	18.69	18.68	18.68						
3	256QAM	8	8	18.54	18.63	18.48	20	5				
3	256QAM	8	7	18.41	18.55	18.39						
3	256QAM	15	0	18.52	18.64	18.57	20	5				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	23.46	23.52	23.41			25	0		
1.4	QPSK	1	0	23.49	23.49	23.40						
1.4	QPSK	1	8	23.30	23.35	23.17	24	1				
1.4	QPSK	1	8	23.41	23.49	23.35						
1.4	QPSK	1	16	23.44	23.44	23.34	24	1				
1.4	QPSK	3	0	23.25	23.34	23.14						
1.4	QPSK	6	0	22.57	22.69	22.67	24	1				
1.4	QPSK	6	8	22.56	22.71	22.64						
1.4	16QAM	1	0	22.86	22.96	22.86	24	1				
1.4	16QAM	1	8	22.52	22.68	22.53						
1.4	16QAM	3	0	22.68	22.80	22.77	23	2				
1.4	16QAM	3	8	21.68	21.82	21.74						
1.4	84QAM	1	0	21.74	21.85	21.73	23	2				
1.4	84QAM	1	8	21.66	21.78	21.72						
1.4	84QAM	1	16	21.72								

Band 25 Main PA Ant2												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-up (ms)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.53	23.60	23.60	25	0				
20	QPSK	1	40	23.50	23.43	23.38						
20	QPSK	1	90	23.40	23.51	23.46						
20	QPSK	50	0	22.59	22.73	22.68						
20	QPSK	50	24	22.57	22.47	22.84						
20	QPSK	50	50	22.84	22.70	22.84	24	1				
20	QPSK	100	0	22.56	22.67	22.56						
20	16QAM	1	0	22.50	22.50	22.50						
20	16QAM	1	40	22.47	22.50	22.50						
20	16QAM	1	90	22.59	22.63	22.67						
20	16QAM	50	0	21.70	21.60	21.77	24	1				
20	16QAM	50	24	21.56	21.60	21.54						
20	16QAM	50	50	21.86	21.73	21.87						
20	16QAM	100	0	21.62	21.66	21.59						
20	16QAM	1	0	21.79	21.84	21.78						
20	64QAM	1	40	21.64	21.78	21.70	23	2				
20	64QAM	1	90	21.84	21.91	21.80						
20	64QAM	50	0	20.55	20.60	20.67						
20	64QAM	50	24	20.57	20.68	20.58						
20	64QAM	50	50	20.41	20.71	20.67						
20	256QAM	1	0	18.73	18.66	18.72	22	3				
20	256QAM	1	40	18.66	18.72	18.59						
20	256QAM	1	90	18.71	18.75	18.66						
20	256QAM	50	0	18.54	18.59	18.58						
20	256QAM	50	24	18.56	18.60	18.57						
20	256QAM	50	50	18.60	18.68	18.61	20	5				
20	256QAM	100	0	18.63	18.60	18.66						
Channel												
Frequency (MHz)												
15	QPSK	1	0	18.67	18.60	18.67				25	0	
15	QPSK	1	37	18.45	18.51	18.51						
15	QPSK	1	74	23.35	23.40	23.38						
15	QPSK	36	0	22.48	22.70	22.62						
15	QPSK	36	20	22.45	22.36	22.59						
15	QPSK	36	39	22.59	22.62	22.57	24	1				
15	QPSK	75	0	22.49	22.57	22.43						
15	16QAM	1	0	22.36	22.52	22.42						
15	16QAM	1	37	22.41	22.49	22.42						
15	16QAM	36	0	22.59	22.62	22.51						
15	16QAM	36	0	21.62	21.75	21.67	24	1				
15	16QAM	58	20	21.44	21.53	21.46						
15	16QAM	75	0	21.50	21.57	21.50						
15	64QAM	1	0	21.72	21.73	21.64						
15	64QAM	1	39	21.54	21.60	21.52						
15	64QAM	1	74	21.71	21.81	21.73	23	2				
15	64QAM	36	0	20.44	20.55	20.46						
15	64QAM	36	20	20.49	20.56	20.45						
15	64QAM	36	39	20.47	20.57	20.55						
15	64QAM	75	0	20.43	20.61	20.43						
15	256QAM	1	0	18.64	18.71	18.62	22	3				
15	256QAM	1	37	18.54	18.60	18.45						
15	256QAM	1	74	18.63	18.70	18.52						
15	256QAM	36	0	18.53	18.55	18.58						
15	256QAM	36	20	18.51	18.50	18.47						
15	256QAM	36	39	18.48	18.53	18.53	20	5				
15	256QAM	75	0	18.56	18.55	18.42						
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.43	23.62	23.52	25	0				
10	QPSK	1	25	23.45	23.57	23.47						
10	QPSK	1	49	23.37	23.45	23.38						
10	QPSK	25	0	22.47	22.60	22.58						
10	QPSK	25	12	22.54	22.61	22.58						
10	QPSK	25	25	22.50	22.66	22.53	24	1				
10	QPSK	50	0	22.48	22.67	22.48						
10	16QAM	1	0	22.38	22.50	22.48						
10	16QAM	1	25	22.33	22.55	22.42						
10	16QAM	25	0	21.53	21.65	21.54						
10	16QAM	25	12	21.45	21.57	21.51	23	2				
10	16QAM	50	0	21.60	21.67	21.54						
10	16QAM	50	0	21.54	21.57	21.54						
10	64QAM	1	0	21.67	21.73	21.70						
10	64QAM	1	25	21.53	21.65	21.63						
10	64QAM	1	49	21.81	21.83	21.72	22	3				
10	64QAM	25	0	20.47	20.59	20.46						
10	64QAM	25	12	20.42	20.51	20.48						
10	64QAM	25	25	20.55	20.60	20.61						
10	64QAM	50	0	20.41	20.63	20.46						
10	256QAM	1	0	18.65	18.71	18.58	20	5				
10	256QAM	1	25	18.63	18.64	18.51						
10	256QAM	1	49	18.67	18.62	18.51						
10	256QAM	25	0	18.51	18.50	18.52						
10	256QAM	25	12	18.45	18.50	18.30						
10	256QAM	25	25	18.50	18.50	18.57	20	5				
10	256QAM	50	0	18.49	18.60	18.48						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.43	23.62	23.52	25	0				
5	QPSK	1	12	23.45	23.53	23.50						
5	QPSK	1	24	23.33	23.39	23.41						
5	QPSK	12	0	22.50	22.64	22.62						
5	QPSK	12	7	22.43	22.52	22.59						
5	QPSK	12	13	22.57	22.64	22.51	24	1				
5	QPSK	25	0	22.48	22.64	22.50						
5	16QAM	1	0	22.48	22.53	22.51						
5	16QAM	1	12	22.35	22.47	22.38						
5	16QAM	1	24	22.50	22.62	22.51						
5	16QAM	12	0	21.60	21.73	21.62	23	2				
5	16QAM	12	7	21.41	21.57	21.50						
5	16QAM	12	14	21.54	21.62	21.52						
5	16QAM	25	0	21.47	21.54	21.49						
5	64QAM	1	0	21.74	21.76	21.73						
5	64QAM	1	12	21.59	21.65	21.61	23	2				
5	64QAM	1	24	21.77	21.80	21.74						
5	64QAM	12	0	20.52	20.62	20.48						
5	64QAM	12	7	20.50	20.57	20.54						
5	64QAM	12	13	20.56	20.67	20.55						
5	64QAM	25	0	20.51	20.66	20.49	22	3				
5	256QAM	1	0	18.60	18.71	18.50						
5	256QAM	1	12	18.58	18.60	18.48						
5	256QAM	1	24	18.60	18.66	18.57						
5	256QAM	12	0	18.54	18.55	18.58						
5	256QAM	12	7	18.41	18.62	18.50	20	5				
5	256QAM	12	13	18.55	18.60	18.50						
5	256QAM	25	0	18.55	18.55	18.50						
Channel												
Frequency (MHz)												
3	QPSK	1	0	18.67	18.60	18.67	25	0				
3	QPSK	1	8	23.50	23.57	23.49						
3	QPSK	1	14	23.32	23.41	23.33						
3	QPSK	8	0	22.46	22.47	22.84						
3	QPSK	8	4	22.52	22.59	22.86						
3	QPSK	8	7	22.59	22.60	22.56	24	1				
3	QPSK	15	0	22.53	22.50	22.51						
3	16QAM	1	0	22.38	22.50	22.43						
3	16QAM	1	8	22.33	22.45	22.46						
3	16QAM	1	14	22.48	22.50	22.49						
3	16QAM	8	0	21.62	21.74	21.71	23	2				
3	16QAM	8	4	21.41	21.56	21.51						
3	16QAM	8	7	21.62	21.58	21.61						
3	16QAM	15	0	21.51	21.56	21.52						
3	16QAM	1	0	21.66	21.77	21.64						
3	64QAM	1	8	21.63	21.63	21.63	23	2				
3	64QAM	1	14	21.62	21.68	21.64						
3	64QAM	8	0	20.50	20.60	20.48						
3	64QAM	8	4	20.52	20.59	20.55						
3	64QAM	8	7	20.51	20.56	20.54						
3	256QAM	1	0	18.63	18.66	18.58	22	3				
3	256QAM	1	8	18.56	18.60	18.48						
3	256QAM	1	14	18.63	18.63	18.61						
3	256QAM	8	0	18.56	18.57	18.59						
3	256QAM	8	4	18.48	18.57	18.53						
3	256QAM	8	7	18.57	18.55	18.48	20	5				
3	256QAM	15	0	18.62	18.62	18.52						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	23.46	23.52	23.49	25	0				
1.4	QPSK	1	8	23.39	23.51	23.45						
1.4	QPSK	1	14	23.32	23.41	23.33						
1.4	QPSK	8	0	22.46	22.47	22.84						
1.4	QPSK	8	4	22.52	22.59	22.86						
1.4	QPSK	8	7	22.59	22.60	22.56	24	1				
1.4	QPSK	15	0	22.53	22.50	22.51						
1.4	16QAM	1	0	22.38	22.50	22.43						
1.4	16QAM	1	8	22.33	22.45	22.46						
1.4	16QAM	1	14	22.48	22.50	22.49						
1.4	16QAM	8	0	21.62	21.74	21.71	24	1				
1.4	16QAM	8	4	21.41	21.56	21.51						
1.4	16QAM	8	7	21.62	21.58	21.61						
1.4	16QAM	15	0	21.51	21.56	21.52						
1.4	16QAM	1	0	21.66	21.77	21.64						
1.4	64QAM	1	8	21.63	21.63	21.63	23	2				
1.4	64QAM	1	14	21.62	21.68	21.64						
1.4	64QAM	8	0	20.50	20.60	20.48						
1.4	64QAM	8	4	20.52	20.59	20.55						
1.4	64QAM	8	7	20.51	20.56	20.54						
1.4	256QAM	1	0	18.63	18.66	18.58	22	3				
1.4	256QAM	1	8	18.56	18.60	18.48						
1.4	256QAM	1	14	18.63	18.63	18.61						
1.4	256QAM	8	0	18.56	18.57	18.59						
1.4	256QAM	8	4	18.48	18.57	18.53						
1.4	256QAM	8	7	18.57	18.55	18.48	20	5				
1.4	256QAM	15	0	18.62	18.62	18.52						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	23.46	23.52	23.49	25	0				
1.4	QPSK	1	8	23.39	23.51	23.45						
1.4	QPSK	1	14	23.32	23.41	23.33						
1.4	QPSK	8	0	22.46	22.47	22.84						
1.4	QPSK	8	4	22.52	22.59	22.86						
1.4	QPSK	8	7	22.59	22.60	22.56	24	1				
1.4	QPSK	15	0	22.53	22.50	22.51						
1.4	16QAM	1	0	22.38	22.50	22.43						
1.4	16QAM	1	8	22.33	22.45	22.46						
1.4	16QAM	1	14	22.48	22.50	22.49						
1.4	16QAM	8	0	21.62	21.74	21.71	24	1				
1.4	16QAM	8	4	21.41	21.56	21.51						
1.4	16QAM	8	7	21.62	21.58	21.61						
1.4	16QAM	15										



Band 38 Main PA Ant2												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	25.19	25.22	25.17	25.5	0				
20	QPSK	1	48	25.08	25.18	25.10						
20	QPSK	1	96	25.05	25.15	25.10						
20	QPSK	50	0	24.25	24.30	24.23	24.5	1				
20	QPSK	50	24	24.17	24.27	24.21						
20	QPSK	50	48	24.10	24.20	24.13						
20	QPSK	100	0	24.13	24.23	24.17	24.5	1				
20	16QAM	1	0	23.16	23.23	23.08						
20	16QAM	1	48	23.02	23.14	23.00						
20	16QAM	1	96	23.02	23.17	23.09	23.5	2				
20	16QAM	50	0	23.19	23.27	23.02						
20	16QAM	50	24	23.17	23.22	23.11						
20	16QAM	50	50	23.26	23.31	23.27	23.5	2				
20	16QAM	100	0	22.23	22.26	22.11						
20	16QAM	100	0	22.81	22.81	22.84						
20	16QAM	1	96	22.71	22.85	22.78	22.5	3				
20	16QAM	50	0	22.22	22.27	22.21						
20	16QAM	50	24	22.08	22.22	22.08						
20	256QAM	1	0	20.26	20.30	20.24	20.5	5				
20	256QAM	1	48	20.19	20.23	20.13						
20	256QAM	1	96	20.18	20.24	20.12						
20	256QAM	50	0	20.15	20.25	20.18	20.5	5				
20	256QAM	50	24	20.03	20.16	20.11						
20	256QAM	50	50	20.08	20.20	20.11						
20	256QAM	100	0	19.04	19.13	19.08	20.5	5				
Channel												
Frequency (MHz)												
15	QPSK	1	0	25.10	25.22	25.17				25.5	0	
15	QPSK	1	37	25.05	25.11	24.95						
15	QPSK	1	74	24.98	25.04	24.98						
15	QPSK	36	0	24.15	24.15	24.15	24.5	1				
15	QPSK	36	20	24.04	24.20	24.11						
15	QPSK	36	36	24.00	24.00	24.00						
15	QPSK	75	0	24.08	24.09	24.13	24.5	1				
15	16QAM	1	0	23.11	23.15	22.93						
15	16QAM	1	37	23.02	23.02	22.94						
15	16QAM	1	74	22.92	23.06	22.99	23.5	2				
15	16QAM	36	0	23.15	23.17	23.14						
15	16QAM	36	20	23.03	23.12	23.07						
15	16QAM	36	36	23.18	23.18	23.22	23.5	2				
15	16QAM	75	0	23.14	23.15	23.06						
15	16QAM	1	0	22.71	22.79	22.78						
15	16QAM	1	37	22.72	22.82	22.78	22.5	3				
15	16QAM	1	74	22.89	22.78	22.86						
15	16QAM	36	0	22.11	22.17	22.13						
15	16QAM	36	20	21.94	22.14	22.09	20.5	5				
15	16QAM	36	36	22.00	22.12	22.00						
15	16QAM	75	0	21.95	22.11	22.05						
15	256QAM	1	0	20.01	20.22	20.15	20.5	5				
15	256QAM	1	37	20.02	20.12	20.00						
15	256QAM	1	74	20.07	20.15	20.09						
15	256QAM	36	0	20.04	20.19	20.11	20.5	5				
15	256QAM	36	20	19.92	20.08	20.05						
15	256QAM	36	36	19.98	20.12	20.03						
15	256QAM	75	0	20.03	20.07	19.99	20.5	5				
15	256QAM	100	0	20.00	20.00	20.00						
Channel												
Frequency (MHz)												
10	QPSK	1	0	25.16	25.17	25.12	25.5	0				
10	QPSK	1	25	25.07	25.14	25.05						
10	QPSK	1	48	24.95	25.12	25.01						
10	QPSK	25	0	24.15	24.22	24.18	24.5	1				
10	QPSK	25	12	24.08	24.21	24.16						
10	QPSK	25	25	24.01	24.05	24.02						
10	QPSK	25	0	23.08	23.14	23.04	24.5	1				
10	16QAM	1	0	23.09	23.14	23.04						
10	16QAM	1	25	22.89	23.07	22.89						
10	16QAM	1	48	22.87	23.08	23.04	23.5	2				
10	16QAM	25	0	23.09	23.13	23.13						
10	16QAM	25	19	23.08	23.11	23.08						
10	16QAM	25	12	23.15	23.28	23.16	23.5	2				
10	16QAM	50	0	23.14	23.22	22.98						
10	16QAM	50	0	23.78	23.83	23.77						
10	16QAM	1	25	22.77	22.78	22.77	23.5	2				
10	16QAM	1	48	22.81	22.76	22.89						
10	16QAM	25	0	22.12	22.18	22.12						
10	16QAM	25	12	22.02	22.13	21.96	22.5	3				
10	16QAM	25	25	22.11	22.17	22.05						
10	16QAM	50	0	22.04	22.14	22.07						
10	256QAM	1	0	20.20	20.18	20.11	20.5	5				
10	256QAM	1	25	20.11	20.13	20.01						
10	256QAM	1	48	20.14	20.15	20.03						
10	256QAM	25	0	20.04	20.17	20.10	20.5	5				
10	256QAM	25	12	19.91	20.04	19.97						
10	256QAM	25	25	20.03	20.06	20.00						
10	256QAM	50	0	19.98	20.09	19.91	20.5	5				
10	256QAM	50	0	20.01	20.00	20.00						
10	256QAM	50	0	20.17	20.15	20.15						
Channel												
Frequency (MHz)												
5	QPSK	1	0	25.05	25.19	25.13	25.5	0				
5	QPSK	1	16	24.99	25.14	24.97						
5	QPSK	1	24	24.95	25.00	25.04						
5	QPSK	12	0	24.19	24.26	24.14	24.5	1				
5	QPSK	12	7	24.04	24.19	24.11						
5	QPSK	12	16	24.07	24.08	24.09						
5	QPSK	25	0	23.07	23.15	23.03	24.5	1				
5	16QAM	1	0	23.10	23.12	23.00						
5	16QAM	1	12	22.90	23.09	22.88						
5	16QAM	1	24	23.04	23.10	22.97	23.5	2				
5	16QAM	12	0	23.12	23.17	23.12						
5	16QAM	12	7	23.03	23.18	23.06						
5	16QAM	12	13	23.15	23.20	23.09	23.5	2				
5	16QAM	25	0	23.15	23.12	23.04						
5	16QAM	1	0	22.70	22.78	22.73						
5	16QAM	1	12	22.73	22.80	22.76	22.5	3				
5	16QAM	1	24	22.66	22.82	22.74						
5	16QAM	12	0	22.10	22.21	22.10						
5	16QAM	12	7	22.06	22.15	22.00	20.5	5				
5	16QAM	12	13	22.18	22.18	22.06						
5	16QAM	25	0	22.06	22.16	22.06						
5	256QAM	1	0	20.17	20.15	20.15	20.5	5				
5	256QAM	1	12	20.16	20.16	20.03						
5	256QAM	1	24	20.10	20.11	20.01						
5	256QAM	12	0	20.08	20.11	20.09	20.5	5				
5	256QAM	12	7	19.92	20.03	19.97						
5	256QAM	12	13	20.01	20.16	20.07						
5	256QAM	25	0	19.98	20.05	19.95	20.5	5				
5	256QAM	25	0	20.00	20.00	20.00						
5	256QAM	25	0	20.13	20.11	20.23						

Band 41 Main PA Ant2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	25.18	25.23	25.23	25.23	25.23		
20	QPSK	1	48	25.04	25.20	25.24	25.25	25.17	25.5	0
20	QPSK	50	50	25.13	25.23	25.31	25.23	25.12		
20	QPSK	50	96	25.13	25.33	24.41	25.23	25.17		
20	QPSK	50	24	24.29	24.27	24.43	24.28	24.24	24.5	1
20	QPSK	100	0	25.13	25.23	25.23	25.23	25.23		
20	QPSK	100	0	25.19	24.25	24.31	24.24	24.18		
20	16QAM	1	0	25.18	25.27	25.34	25.22	25.15		
20	16QAM	1	48	25.03	25.08	25.08	25.08	25.08	24.5	1
20	16QAM	1	96	25.14	24.13	24.13	24.25	24.15		
20	16QAM	50	0	25.27	25.38	25.40	25.30	25.23		
20	16QAM	50	48	25.22	25.31	25.31	25.21	25.19		
20	16QAM	50	96	25.23	25.36	25.38	25.34	25.28	23.5	2
20	16QAM	100	0	25.18	25.28	25.37	25.25	25.23		
20	16QAM	100	0	25.23	25.60	25.60	25.50	25.43		
20	64QAM	1	0	25.24	25.27	25.08	25.08	25.02	23.5	2
20	64QAM	1	48	25.08	25.08	25.08	25.08	25.02		
20	64QAM	50	0	25.20	25.24	25.29	25.25	25.28		
20	64QAM	50	48	25.20	25.25	25.28	25.20	25.15	22.5	3
20	64QAM	50	96	25.22	25.28	25.28	25.25	25.23		
20	64QAM	100	0	25.21	25.23	25.27	25.20	25.22		
20	256QAM	1	0	25.27	25.33	25.36	25.41	25.26		
20	256QAM	1	48	25.24	25.33	25.33	25.33	25.23		
20	256QAM	1	96	25.21	25.35	25.35	25.22	25.24		
20	256QAM	50	0	25.20	25.27	25.27	25.21	25.14		
20	256QAM	50	24	25.14	25.14	25.30	25.20	25.21	20.5	5
20	256QAM	50	50	25.23	25.21	25.29	25.25	25.18		
20	256QAM	100	0	25.20	25.25	25.25	25.25	25.18		
Channel										
Frequency (MHz)										
15	QPSK	1	0	25.03	25.17	25.02	25.08	25.15		
15	QPSK	1	48	24.94	25.05	25.15	25.09	25.03		
15	QPSK	50	74	24.98	25.06	25.16	25.07	25.06		
15	QPSK	50	96	25.03	25.16	25.16	25.03	25.03		
15	QPSK	50	24	24.19	24.12	24.34	24.28	24.18		
15	QPSK	100	0	25.03	25.16	25.16	25.16	25.16		
15	QPSK	100	0	25.14	24.18	24.18	24.21	24.13		
15	16QAM	1	0	25.07	25.22	25.23	25.09	25.11		
15	16QAM	1	48	25.00	25.04	25.04	25.04	25.07	24.5	1
15	16QAM	50	74	25.03	25.01	25.20	25.18	25.08		
15	16QAM	50	0	25.21	25.20	25.28	25.23	25.19		
15	16QAM	50	48	25.21	25.23	25.23	25.19	25.13	23.5	2
15	16QAM	50	96	25.22	25.30	25.31	25.20	25.15		
15	16QAM	100	0	25.19	25.23	25.23	25.11	25.13		
15	64QAM	1	0	25.23	25.28	25.29	25.24	25.28		
15	64QAM	1	48	25.23	25.27	25.28	25.24	25.28		
15	64QAM	50	74	25.27	25.29	25.28	25.27	25.27	23.5	2
15	64QAM	50	0	25.17	22.80	22.82	22.22	22.22		
15	64QAM	50	24	25.04	25.11	25.22	25.07	25.04		
15	64QAM	100	0	25.19	25.23	25.23	25.23	25.23	22.5	3
15	64QAM	100	0	25.15	22.80	22.82	22.24	22.07		
15	256QAM	1	0	25.27	25.28	25.28	25.24	25.28		
15	256QAM	1	48	25.27	25.28	25.28	25.24	25.28		
15	256QAM	50	74	25.27	25.29	25.28	25.27	25.27		
15	256QAM	50	0	25.17	22.80	22.82	22.22	22.22		
15	256QAM	50	24	25.04	25.11	25.22	25.07	25.04		
15	256QAM	100	0	25.19	25.23	25.23	25.23	25.23	20.5	5
15	256QAM	100	0	25.15	22.80	22.82	22.24	22.07		
15	256QAM	1	37	25.10	25.28	25.21	25.04	25.10		
15	256QAM	1	74	25.12	25.23	25.26	25.06	25.15		
15	256QAM	50	24	25.08	25.16	25.23	25.07	25.05		
15	256QAM	50	96	25.09	25.03	25.03	25.05	25.10		
15	256QAM	100	0	25.10	25.06	25.02	25.06	25.10	20.5	5
15	256QAM	100	0	25.07	25.17	25.07	25.10	25.08		
Channel										
Frequency (MHz)										
5	QPSK	1	0	25.03	25.17	25.02	25.08	25.15		
5	QPSK	1	25	24.99	25.14	25.11	25.11	25.06	26	0
5	QPSK	50	74	25.11	25.16	25.16	25.16	25.16		
5	QPSK	50	96	25.16	25.24	25.17	25.17	25.17		
5	QPSK	50	24	24.26	24.36	24.41	24.21	24.21		
5	QPSK	100	0	25.10	25.20	25.20	25.20	25.20		
5	QPSK	100	0	25.14	24.12	24.25	24.14	24.11	24.5	1
5	16QAM	1	0	25.04	25.15	25.22	25.17	25.11		
5	16QAM	1	48	25.09	25.02	25.02	25.09	25.04		
5	16QAM	1	96	25.03	25.09	25.22	25.18	25.11		
5	16QAM	50	0	25.23	25.30	25.37	25.18	25.16		
5	16QAM	50	48	25.24	25.17	25.17	25.16	25.06		
5	16QAM	50	96	25.21	25.31	25.31	25.20	25.13		
5	16QAM	100	0	25.18	25.25	25.25	25.13	25.11		
5	64QAM	1	0	25.28	25.22	25.03	25.05	25.23		
5	64QAM	1	25	25.21	25.29	25.05	25.07	25.22	23.5	2
5	64QAM	50	74	25.29	25.21	25.29	25.29	25.29		
5	64QAM	50	96	25.13	25.25	25.22	25.26	25.27		
5	64QAM	50	24	25.03	25.17	25.23	25.13	25.02	22.5	3
5	64QAM	100	0	25.27	25.20	25.27	25.25	25.23		
5	256QAM	1	0	25.27	25.27	25.27	25.27	25.27		
5	256QAM	1	25	25.18	25.28	25.27	25.15	25.18	20.5	5
5	256QAM	1	49	25.16	25.27	25.29	25.14	25.09		
5	256QAM	50	0	25.24	25.13	25.13	25.13	25.13		
5	256QAM	50	25	25.05	25.05	25.06	25.14	25.02	20.5	5
5	256QAM	50	25	25.08	25.12	25.15	25.06	25.10		
5	256QAM	100	0	25.27	25.27	25.27	25.27	25.27		
Channel										
Frequency (MHz)										
5	QPSK	1	0	25.03	25.17	25.02	25.08	25.15		
5	QPSK	1	12	24.92	25.08	25.10	25.15	25.00	26	0
5	QPSK	50	74	25.11	25.16	25.16	25.16	25.16		
5	QPSK	50	96	25.16	25.24	25.17	25.17	25.17		
5	QPSK	50	24	24.22	24.38	24.36	24.27	24.27		
5	QPSK	100	0	25.10	25.24	25.24	25.24	25.24		
5	QPSK	100	0	25.14	24.18	24.33	24.13	24.16	24.5	1
5	16QAM	1	0	25.07	25.21	25.21	25.17	25.11		
5	16QAM	1	48	25.09	25.22	25.29	25.07	25.08		
5	16QAM	1	96	25.03	25.09	25.22	25.18	25.09		
5	16QAM	50	0	25.23	25.30	25.38	25.19	25.17		
5	16QAM	50	48	25.22	25.32	25.32	25.18	25.12		
5	16QAM	50	96	25.17	25.25	25.28	25.11	25.07	23.5	2
5	16QAM	100	0	25.19	25.22	25.26	25.23	25.21		
5	64QAM	1	0	25.28	25.26	25.23	25.25	25.10		
5	64QAM	1	12	25.00	25.22	25.03	25.07	25.28	23.5	2
5	64QAM	50	74	25.29	25.21	25.29	25.29	25.29		
5	64QAM	50	96	25.13	25.25	25.22	25.26	25.27		
5	64QAM	50	24	25.04	25.22	25.18	25.15	25.02	22.5	3
5	64QAM	100	0	25.27	25.20	25.27	25.25	25.23		
5	256QAM	1	0	25.27	25.27	25.27	25.27	25.27		
5	256QAM	1	12	25.17	25.26	25.28	25.13	25.07	20.5	5
5	256QAM	50	0	25.24	25.13	25.13	25.13	25.13		
5	256QAM	50	25	25.05	25.05	25.06	25.14	25.02	20.5	5
5	256QAM	50	25	25.08	25.12	25.15	25.06	25.10		
5	256QAM	100	0	25.27	25.27	25.27	25.27	25.27		
Channel										
Frequency (MHz)										
5	QPSK	1	0	25.03	25.17	25.02	25.08	25.15		
5	QPSK	1	12	24.92	25.08	25.10	25.15	25.00	26	0
5	QPSK	50	74	25.11	25.16	25.16	25.16	25.16		
5	QPSK	50	96	25.16	25.24	25.17	25.17	25.17		
5	QPSK	50	24	24.22	24.38	24.36	24.27	24.27		
5	QPSK	100	0	25.10	25.24	25.24	25.24	25.24		
5	QPSK	100	0	25.14	24.18	24.33	24.13	24.16	24.5	1
5	16QAM	1	0	25.07	25.21	25.21	25.17	25.11		
5	16QAM	1	48	25.09	25.22	25.29	25.07	25.08		
5	16QAM	1	96	25.03	25.09	25.22	25.18	25.09		
5	16QAM	50	0	25.23	25.30	25.38	25.19	25.17		
5	16QAM	50	48	25.22	25.32	25.32	25.18	25.12		
5	16QAM	50	96	25.17	25.25	25.28	25.11	25.07	23.5	2
5	16QAM	100	0	25.19	25.22	25.26	25.23	25.21		
5	64QAM	1	0	25.28	25.26	25.23	25.25	25.10		
5	64QAM	1	12	25.00	25.22	25.03	25.07	25.28	23.5	2

Band 4 Main PA Ant3																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	22.52	22.51	22.57	24.5	0								
20	QPSK	1	49	22.58	22.55	22.58										
20	QPSK	1	99	22.51	22.55	22.52										
20	QPSK	50	0	21.50	21.55	21.51										
20	QPSK	50	24	21.51	21.51	21.51	23.5	1								
20	QPSK	50	50	21.53	21.51	21.50										
20	QPSK	100	0	21.50	21.57	21.52										
20	16QAM	50	0	21.51	21.55	21.51										
20	16QAM	1	49	21.53	21.55	21.59	23.5	1								
20	16QAM	1	99	21.54	21.51	21.53										
20	16QAM	50	0	20.74	20.91	20.75										
20	16QAM	50	24	20.89	20.73	20.87										
20	16QAM	50	50	20.73	20.77	20.73	22.5	2								
20	16QAM	100	0	20.68	20.73	20.63										
20	16QAM	1	0	20.54	20.55	20.62										
20	16QAM	1	49	20.57	20.59	20.50										
20	16QAM	1	99	20.59	20.58	20.51	21.5	3								
20	16QAM	50	0	19.56	19.67	19.57										
20	16QAM	50	24	19.53	19.58	19.52										
20	16QAM	50	50	19.58	19.63	19.56										
20	16QAM	100	0	19.52	19.55	19.59	19.5	5								
20	16QAM	1	49	17.55	17.59	17.54										
20	256QAM	1	99	17.55	17.51	17.52										
20	256QAM	50	0	17.58	17.58	17.58										
20	256QAM	50	24	17.54	17.68	17.59	19.5	5								
20	256QAM	50	50	17.60	17.72	17.57										
20	256QAM	100	0	17.61	17.69	17.57										
20	256QAM	Channel		20.05	20.15	20.05										
Channel																
Frequency (MHz)																
16	QPSK	1	0	22.57	22.56	22.54	24.5	0								
16	QPSK	1	37	22.54	22.54	22.55										
16	QPSK	1	74	22.54	22.55	22.54										
16	QPSK	36	0	21.53	21.58	21.62										
16	QPSK	36	0	21.58	21.51	21.64	23.5	1								
16	QPSK	36	39	21.50	21.59	21.54										
16	QPSK	75	0	21.52	21.59	21.56										
16	16QAM	1	0	21.60	21.65	21.65										
16	16QAM	1	37	21.68	21.67	21.73	23.5	1								
16	16QAM	1	74	21.61	21.60	21.67										
16	16QAM	36	0	20.79	20.82	20.72										
16	16QAM	36	20	20.75	20.80	20.70										
16	16QAM	36	20	20.82	20.79	20.82	22.5	2								
16	16QAM	75	0	20.84	20.84	20.79										
16	16QAM	75	0	20.58	20.68	20.50										
16	16QAM	1	37	20.59	20.58	20.51										
16	16QAM	1	74	20.54	20.52	20.50	21.5	3								
16	16QAM	36	0	19.59	19.63	19.66										
16	16QAM	36	20	19.63	19.58	19.64										
16	16QAM	36	39	19.57	19.63	19.57										
16	16QAM	75	0	19.65	19.70	19.62	19.5	5								
16	256QAM	1	37	17.50	17.57	17.51										
16	256QAM	1	74	17.64	17.53	17.52										
16	256QAM	36	0	17.63	17.70	17.63										
16	256QAM	36	20	17.62	17.72	17.65	19.5	5								
16	256QAM	36	39	17.74	17.76	17.69										
16	256QAM	75	0	17.41	17.60	17.57										
16	256QAM	Channel		20.00	20.10	20.00										
Channel																
Frequency (MHz)																
10	QPSK	1	0	22.40	22.41	22.39	24	0								
10	QPSK	1	25	22.45	22.45	22.44										
10	QPSK	1	49	22.30	22.39	22.28										
10	QPSK	1	74	22.34	22.45	22.28										
10	QPSK	12	0	21.76	21.88	21.88	23	1								
10	QPSK	25	12	21.82	21.82	21.84										
10	QPSK	25	25	21.86	21.58	21.81										
10	QPSK	36	0	21.74	21.79	21.79										
10	16QAM	1	0	21.74	21.71	21.69	23	1								
10	16QAM	1	25	21.52	21.68	21.58										
10	16QAM	1	49	21.62	21.62	21.62										
10	16QAM	25	0	20.59	20.71	20.55										
10	16QAM	25	12	20.47	20.63	20.48	22	2								
10	16QAM	36	0	20.56	20.69	20.57										
10	16QAM	36	0	20.49	20.63	20.50										
10	16QAM	1	0	20.39	20.47	20.37										
10	16QAM	1	25	20.31	20.43	20.38	21	3								
10	16QAM	1	49	20.25	20.42	20.22										
10	16QAM	25	0	19.66	19.65	19.59										
10	16QAM	25	12	19.50	19.65	19.47										
10	16QAM	25	25	19.48	19.62	19.50	19	5								
10	16QAM	50	0	19.40	19.55	19.43										
10	16QAM	50	0	17.71	17.84	17.75										
10	256QAM	1	25	17.72	17.82	17.68										
10	256QAM	1	49	17.63	17.66	17.65	19	5								
10	256QAM	36	0	17.70	17.75	17.64										
10	256QAM	25	12	17.43	17.59	17.56										
10	256QAM	25	25	17.66	17.70	17.64										
10	256QAM	50	0	17.57	17.61	17.58	20	0								
10	QPSK	1	0	22.43	22.53	22.53										
10	QPSK	1	12	22.40	22.44	22.49										
10	QPSK	1	24	22.34	22.45	22.28										
10	QPSK	12	0	21.76	21.88	21.88	23	1								
10	QPSK	25	12	21.72	21.83	21.63										
10	QPSK	12	7	21.68	21.73	21.61										
10	QPSK	36	0	21.74	21.83	21.61										
10	16QAM	1	0	21.84	21.77	21.64	23	1								
10	16QAM	1	12	21.48	21.66	21.62										
10	16QAM	1	24	21.43	21.60	21.59										
10	16QAM	12	0	20.85	20.76	20.68										
10	16QAM	12	7	20.45	20.61	20.51	22	2								
10	16QAM	12	13	20.63	20.71	20.65										
10	16QAM	25	0	20.48	20.58	20.51										
10	16QAM	1	0	20.32	20.41	20.41										
10	16QAM	1	12	20.23	20.44	20.27	21	3								
10	16QAM	1	25	20.20	20.40	20.20										
10	16QAM	1	49	20.17	20.37	20.17										
10	16QAM	1	74	20.17	20.37	20.17										
10	16QAM	1	99	20.17	20.37	20.17	20	5								
10	16QAM	1	124	20.17	20.37	20.17										
10	16QAM	1	149	20.17	20.37	20.17										
10	16QAM	1	174	20.17	20.37	20.17										
10	16QAM	1	199	20.17	20.37	20.17	19	5								
10	16QAM	1	224	20.17	20.37	20.17										
10	16QAM	1	249	20.17	20.37	20.17										
10	16QAM	1	274	20.17	20.37	20.17										
10	16QAM	1	299	20.17	20.37	20.17	18	5								
10	16QAM	1	324	20.17	20.37	20.17										
10	16QAM	1	349	20.17	20.37	20.17										
10	16QAM	1	374	20.17	20.37	20.17										
10	16QAM	1	399	20.17	20.37	20.17	17	5								
10	16QAM	1	424	20.17	20.37	20.17										
10	16QAM	1	449	20.17	20.37	20.17										
10	16QAM	1	474	20.17	20.37	20.17										
10	16QAM	1	499	20.17	20.37	20.17	16	5								
10	16QAM	1	524	20.17	20.37	20.17										
10	16QAM	1	549	20.17	20.37	20.17										
10	16QAM	1	574	20.17	20.37	20.17										
10	16QAM	1	599	20.17	20.37	20.17	15	5								
10	16QAM	1	624	20.17	20.37	20.17										
10	16QAM	1	649	20.17	20.37	20.17										
10	16QAM	1	674	20.17	20.37	20.17										
10	16QAM	1	699	20.17	20.37	20.17	14	5								
10	16QAM	1	724	20.17	20.37	20.17										
10	16QAM	1	749	20.17	20.37	20.17										
10	16QAM	1	774	20.17	20.37	20.17										
10	16QAM	1	799	20.17	20.37	20.17	13	5								
10	16QAM	1	824	20.17	20.37	20.17										
10	16QAM	1	849	20.17	20.37	20.17										
10	16QAM	1	874	20.17	20.37	20.17										
10	16QAM	1	899	20.17	20.37	20.17	12	5								
10	16QAM	1	924	20.17	20.37	20.17										
10	16QAM	1	949	20.17	20.37	20.17										
10	16QAM	1	974	20.17	20.37	20.17										
10	16QAM	1	999	20.17	20.37	20.17	11	5								
10	16QAM	1	1024	20.17	20.37	20.17										
10	16QAM	1	1049	20.17	20.37	20.17										
10	16QAM	1	1074	20.17	20.37	20.17										
10	16QAM	1	1099	20.17	20.37	20.17	10	5								
10	16QAM	1	1124	20.17	20.37	20.17										
10	16QAM	1	1149	20.17	20.37	20.17										
10	16QAM	1	1174	20.17	20.37	20.17										
10	16QAM	1	1199	20.17	20.37	20.17	9	5								
10	16QAM	1	1224	20.17	20.37	20.17										
10	16QAM	1	1249	20.17	20.37	20.17										
10	16QAM	1	1274	20.17	20.37	20.17										
10	16QAM	1	1299	20.17	20.37	20.17	8	5								
10	16QAM	1	1324	20.17	20.37	20.17										
10	16QAM	1	1349	20.17	20.37	20.17										
10	16QAM	1	1374	20.17	20.37	20.17										
10	16QAM	1	1399	20.17	20.37	20.17	7	5								
10	16QAM	1	1424	20.17	20.37	20.17										
10	16QAM	1	1449	20.17	20.37	20.17										
10	16QAM	1	1474	20.17	20.37	20.17										
10	16QAM	1	1499	20.17	20.37	20.17	6	5								
10	16QAM	1														

Band 38 Main PA Ant3												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch [FHz]	Power Main Ch [FHz]	Power High Ch [FHz]	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	37.965	38.005	38.010	24.5	0				
20	QPSK	1	48	22.90	23.04	22.94						
20	QPSK	1	96	22.91	22.99	22.96						
20	QPSK	50	0	22.10	22.25	22.13						
20	QPSK	50	24	22.08	22.19	22.16	23.5	1				
20	QPSK	50	48	22.05	22.14	22.08						
20	QPSK	100	0	22.04	22.10	22.02						
20	16QAM	1	0	21.96	22.00	21.99						
20	16QAM	1	48	21.95	22.05	21.95	23.5	1				
20	16QAM	50	0	21.98	21.15	21.08						
20	16QAM	50	24	20.94	21.07	20.98						
20	16QAM	50	50	21.02	21.11	21.07						
20	16QAM	100	0	20.93	21.05	20.94	22.5	2				
20	64QAM	1	0	20.75	20.83	20.73						
20	64QAM	1	48	20.70	20.77	20.88						
20	64QAM	50	0	20.94	20.17	20.05						
20	64QAM	50	24	19.95	20.08	20.02	21.5	3				
20	64QAM	50	50	20.10	20.13	20.02						
20	64QAM	100	0	19.94	20.05	20.02						
20	256QAM	1	0	17.84	17.87	17.83						
20	256QAM	1	48	17.80	17.84	17.79	19.5	5				
20	256QAM	1	96	17.79	17.89	17.76						
20	256QAM	50	0	18.00	18.18	18.03						
20	256QAM	50	24	17.08	18.08	17.96						
20	256QAM	50	50	18.09	18.14	18.09	19.5	5				
20	256QAM	100	0	17.85	17.94	17.84						
Channel												
Frequency (MHz)												
15	QPSK	1	0	37.915	38.005	38.010	24.5	0				
15	QPSK	1	37	22.81	22.97	22.82						
15	QPSK	1	74	22.82	22.80	22.86						
15	QPSK	1	74	22.85	22.85	22.77						
15	QPSK	36	0	21.96	22.22	22.02	23.5	1				
15	QPSK	36	20	21.94	22.06	22.12						
15	QPSK	36	36	21.92	22.08	22.01						
15	QPSK	75	0	22.00	22.08	21.94						
15	16QAM	1	0	22.01	22.06	21.88	23.5	1				
15	16QAM	1	37	21.95	21.92	21.91						
15	16QAM	1	74	21.88	21.90	21.82						
15	16QAM	36	0	20.95	21.08	20.94						
15	16QAM	36	20	20.93	21.05	20.87	22.5	2				
15	16QAM	36	36	20.91	21.06	20.96						
15	16QAM	75	0	20.83	20.92	20.88						
15	64QAM	1	0	20.71	20.75	20.81						
15	64QAM	1	37	20.58	20.68	20.80	22.5	2				
15	64QAM	1	74	20.51	20.60	20.58						
15	64QAM	36	0	19.96	20.02	19.92						
15	64QAM	36	20	19.87	20.04	19.93						
15	64QAM	36	36	19.82	20.04	19.96	21.5	3				
15	64QAM	75	0	19.94	19.94	19.90						
15	256QAM	1	0	17.73	17.82	17.84						
15	256QAM	1	37	17.73	17.82	17.75						
15	256QAM	1	74	17.68	17.81	17.65	19.5	5				
15	256QAM	36	0	18.02	18.06	17.93						
15	256QAM	36	20	17.90	17.99	17.82						
15	256QAM	36	36	18.04	18.01	18.02						
15	256QAM	75	0	17.82	17.96	17.88						
Channel												
Frequency (MHz)												
10	QPSK	1	0	37.960	38.005	38.010	24.5	0				
10	QPSK	1	25	22.88	22.99	22.95						
10	QPSK	1	25	22.87	22.96	22.82						
10	QPSK	1	48	22.82	22.81	22.74						
10	QPSK	25	12	22.01	22.07	22.06	23.5	1				
10	QPSK	25	25	21.96	22.00	22.00						
10	QPSK	25	48	22.00	22.12	22.01						
10	16QAM	1	0	21.96	22.05	21.96						
10	16QAM	1	25	21.98	21.98	21.88	23.5	1				
10	16QAM	1	48	21.87	21.93	21.89						
10	16QAM	25	0	20.95	21.08	20.96						
10	16QAM	25	12	20.87	20.83	20.89						
10	16QAM	25	25	20.89	20.97	21.01	22.5	2				
10	16QAM	50	0	20.89	20.95	20.80						
10	64QAM	1	0	20.68	20.72	20.68						
10	64QAM	1	25	20.65	20.70	20.59						
10	64QAM	1	48	20.57	20.62	20.62	22.5	2				
10	64QAM	25	0	19.97	20.14	19.97						
10	64QAM	25	12	19.91	20.00	19.97						
10	64QAM	25	25	20.06	20.07	19.95						
10	64QAM	50	0	19.81	20.01	19.92	21.5	3				
10	256QAM	1	0	17.76	17.85	17.81						
10	256QAM	1	25	17.73	17.83	17.73						
10	256QAM	1	48	17.76	17.82	17.63						
10	256QAM	25	0	17.99	18.05	17.92	19.5	5				
10	256QAM	25	12	17.96	18.00	17.96						
10	256QAM	25	25	17.97	18.02	17.99						
10	256QAM	50	0	17.86	17.97	17.82						
Channel												
Frequency (MHz)												
5	QPSK	1	0	37.975	38.005	38.020	24.5	0				
5	QPSK	1	12	22.76	22.95	22.87						
5	QPSK	1	12	22.78	22.85	22.84						
5	QPSK	12	0	22.03	22.14	22.09						
5	QPSK	12	7	22.03	22.12	22.09	23.5	1				
5	QPSK	12	16	22.00	22.02	21.99						
5	QPSK	25	0	21.97	22.05	21.96						
5	16QAM	1	0	21.93	22.04	21.89						
5	16QAM	1	12	21.84	21.95	21.90	23.5	1				
5	16QAM	1	24	21.94	21.96	21.86						
5	16QAM	12	0	21.03	21.11	20.97						
5	16QAM	12	7	20.87	20.99	20.94						
5	16QAM	12	16	20.85	20.97	20.93	22.5	2				
5	16QAM	25	0	20.84	20.91	20.80						
5	64QAM	1	0	20.69	20.74	20.68						
5	64QAM	1	12	20.67	20.84	20.68						
5	64QAM	1	24	20.54	20.70	20.55	21.5	3				
5	64QAM	12	0	19.96	20.09	19.93						
5	64QAM	12	7	19.81	19.98	19.88						
5	64QAM	12	16	20.07	20.10	19.91						
5	256QAM	1	0	17.80	17.88	17.79	19.5	5				
5	256QAM	1	12	17.79	17.81	17.70						
5	256QAM	1	24	17.84	17.82	17.63						
5	256QAM	12	0	18.00	18.14	17.92						
5	256QAM	12	7	17.94	18.02	17.88	19.5	5				
5	256QAM	12	16	17.97	18.11	18.03						
5	256QAM	25	0	17.82	17.94	17.86						

Band 41 Main PA Ant3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power Prime Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	39750	40165	40600	41050	41490		
20	QPSK	1	48	2560	2569.5	2593	2618	2640		
20	QPSK	1	96	23.03	22.98	23.12	23.07	23.03	24.5	0
20	QPSK	1	144	23.01	22.97	23.10	22.97	23.00		
20	QPSK	50	0	22.28	22.20	22.41	22.28	22.30	23.5	1
20	QPSK	50	24	22.23	22.15	22.30	22.28	22.13		
20	QPSK	50	50	22.17	22.12	22.24	22.18	22.05		
20	QPSK	50	75	22.15	22.10	22.21	22.15	22.00	23.5	1
20	16QAM	1	0	22.11	22.17	22.17	22.13	22.00		
20	16QAM	1	48	22.14	22.06	22.14	22.11	22.04		
20	16QAM	1	96	22.08	22.06	22.10	22.07	22.04	23.5	1
20	16QAM	50	0	21.17	21.14	21.26	21.23	21.11		
20	16QAM	50	24	21.07	21.04	21.16	21.14	21.06	22.5	2
20	16QAM	50	50	21.17	21.11	21.27	21.19	21.08		
20	16QAM	100	0	21.08	21.08	21.13	21.05	20.95		
20	16QAM	100	24	20.96	20.96	21.00	20.92	20.84	22.5	2
20	16QAM	1	48	20.91	20.78	20.89	20.84	20.70		
20	16QAM	50	0	20.78	20.68	20.80	20.78	20.67		
20	16QAM	50	24	20.58	20.52	20.68	20.66	20.55	21.5	3
20	16QAM	50	50	20.58	20.58	20.61	20.51	20.40		
20	16QAM	100	0	20.57	20.53	20.51	20.40	20.36		
20	25QAM	1	0	18.86	17.94	18.89	18.83	17.98	19.5	5
20	25QAM	1	48	17.90	18.00	18.03	17.87	17.89		
20	25QAM	1	96	17.89	17.82	18.02	17.88	17.90		
20	25QAM	50	0	18.28	18.14	18.34	18.10	18.14		
20	25QAM	50	24	18.18	18.06	18.26	18.08	18.11	19.5	5
20	25QAM	50	50	18.12	18.17	18.21	18.14	18.05		
20	25QAM	100	0	18.07	18.09	18.10	17.98	17.99		
Channel										
Frequency (MHz)										
15	QPSK	1	0	39752	40173	40600	41060	41500		
15	QPSK	1	48	23.03	22.98	23.13	23.07	23.04	25.0	0
15	QPSK	1	96	22.99	22.83	23.04	22.81	22.85		
15	QPSK	1	144	22.94	22.89	23.01	22.90	22.88		
15	QPSK	50	0	22.21	22.10	22.25	22.17	22.22	23.5	1
15	QPSK	50	24	22.13	22.08	22.18	22.24	22.04		
15	QPSK	50	50	22.03	22.02	22.11	22.05	21.91		
15	QPSK	100	0	22.10	22.11	22.05	22.05	21.98	23.5	1
15	16QAM	1	0	23.05	22.11	22.07	22.08	21.95		
15	16QAM	1	48	22.04	21.02	21.02	21.03	21.00	22.5	2
15	16QAM	1	96	21.87	21.84	22.00	22.05	21.89		
15	16QAM	50	0	21.09	21.16	21.15	21.13	20.96		
15	16QAM	50	24	21.02	21.00	21.02	21.04	20.92	21.5	3
15	16QAM	50	50	21.03	21.02	21.24	21.11	21.04		
15	16QAM	100	0	20.93	21.00	20.98	20.99	20.80		
15	16QAM	100	24	20.78	20.76	20.88	20.78	20.67	22.5	2
15	16QAM	1	37	20.61	20.74	20.73	20.74	20.57		
15	16QAM	50	0	20.73	20.74	20.73	20.74	20.56		
15	16QAM	50	24	20.58	20.55	20.17	20.09	20.02	21.5	3
15	16QAM	50	50	20.02	20.01	20.17	19.97	20.00		
15	25QAM	1	0	18.04	18.15	18.07	17.98	18.07		
15	25QAM	1	48	17.99	18.04	18.01	18.10	17.98		
15	25QAM	1	96	17.92	17.88	17.97	17.77	17.81	19.5	5
15	25QAM	50	0	18.25	18.05	18.24	18.02	18.01		
15	25QAM	50	24	18.18	17.98	18.08	17.90	17.95		
15	25QAM	50	50	18.05	18.04	18.09	18.10	17.94		
15	25QAM	100	0	17.98	17.91	17.92	17.84	17.87		
Channel										
Frequency (MHz)										
5	QPSK	1	0	39750	40165	40600	41060	41500		
5	QPSK	1	48	23.01	22.98	23.15	23.08	23.02	25.0	0
5	QPSK	1	96	22.91	22.83	23.03	22.81	22.87		
5	QPSK	1	144	22.89	22.84	23.08	22.89	22.87		
5	QPSK	50	0	22.12	22.10	22.13	22.08	22.12	23.5	1
5	QPSK	50	24	22.05	22.00	22.17	22.18	22.00		
5	QPSK	50	50	22.13	22.18	22.08	22.11	22.00	23.5	1
5	QPSK	100	0	22.10	22.01	22.24	22.09	22.02		
5	16QAM	1	0	21.97	22.03	22.08	22.09	21.89	23.5	1
5	16QAM	1	48	22.03	22.01	22.08	22.09	21.91		
5	16QAM	1	96	21.90	22.02	22.08	22.06	21.80		
5	16QAM	25	0	21.11	21.12	21.10	21.13	20.98		
5	16QAM	25	24	20.99	21.04	21.10	21.02	20.88	22.5	2
5	16QAM	25	50	21.12	20.97	21.13	21.09	20.88		
5	16QAM	50	0	21.02	20.97	21.08	21.04	20.87		
5	16QAM	1	0	20.80	20.79	20.85	20.71	20.77		
5	16QAM	1	24	20.67	20.66	20.78	20.78	20.56	21.5	2
5	16QAM	1	48	20.65	20.65	20.78	20.78	20.51		
5	16QAM	25	0	20.59	20.57	20.14	20.09	20.01		
5	16QAM	25	24	20.52	20.59	20.17	19.96	19.88	21.5	3
5	16QAM	25	50	20.54	20.19	20.18	19.97	19.88		
5	16QAM	50	0	20.00	19.92	20.02	20.02	19.84		
5	25QAM	1	0	17.77	17.76	17.81	17.83	17.84	19.5	5
5	25QAM	1	24	17.77	17.76	17.81	17.83	17.84		
5	25QAM	1	48	17.75	17.78	17.86	17.85	17.78		
5	25QAM	1	96	18.22	18.16	18.22	18.17	18.09		
5	25QAM	25	0	17.99	17.93	18.13	17.90	18.03	19.5	5
5	25QAM	25	24	17.98	17.93	18.06	18.02	17.90		
5	25QAM	25	50	17.92	17.92	18.01	18.01	17.97		
Channel										
Frequency (MHz)										
5	QPSK	1	0	39670	40148	40600	41060	41565		
5	QPSK	1	48	23.00	22.94	23.01	22.95	22.95	25.0	0
5	QPSK	1	96	22.94	22.90	23.01	22.93	22.90		
5	QPSK	1	144	22.92	22.85	23.00	22.93	22.91		
5	QPSK	12	7	22.11	22.11	22.26	22.26	22.21	23.5	1
5	QPSK	12	19	22.06	22.06	22.19	22.19	22.14		
5	QPSK	25	0	22.15	22.08	22.28	22.09	22.01		
5	16QAM	1	0	22.03	22.13	22.12	22.07	21.91	23.5	1
5	16QAM	1	48	22.07	22.06	22.11	22.07	21.91		
5	16QAM	1	96	21.90	21.92	22.04	22.05	21.88		
5	16QAM	1	144	21.87	21.88	22.01	21.92	21.77	22.5	2
5	16QAM	12	13	21.05	20.98	21.13	21.01	20.92		
5	16QAM	12	19	21.05	20.98	21.26	21.13	20.98		
5	16QAM	25	0	20.77	20.78	20.89	20.75	20.80	22.5	2
5	16QAM	1	12	20.04	20.08	20.11	20.71	20.01		
5	16QAM	1	19	20.70	20.74	20.79	20.71	20.60	21.5	3
5	16QAM	25	0	19.97	19.95	20.08	20.08	19.89		
5	25QAM	1	0	17.94	17.96	17.98	17.98	17.90	19.5	5
5	25QAM	1	12	17.84	17.92	17.84	17.87	17.76		
5	25QAM	1	24	17.82	17.84	17.89	17.74	17.75		
5	25QAM	1	48	18.20	18.18	18.22	18.17	18.09		
5	25QAM	12	7	17.99	17.83	18.14	17.87	18.00	19.5	5
5	25QAM	12	19	18.08	18.00	18.16	18.01	17.97		
5	25QAM	25	0	17.90	17.92	17.99	17.99	17.90		

Band 2 Main PA Ant4												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 1875.5	Power Mid Ch./Freq. 1880.0	Power High Ch./Freq. 1881.5	Turn-up time (sec)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.26	23.30	23.31	24.5	0				
20	QPSK	1	49	23.24	23.27	23.28						
20	QPSK	1	99	23.18	23.22	23.16						
20	QPSK	50	0	22.98	22.98	22.94						
20	QPSK	50	24	22.30	22.34	22.34	23.5	1				
20	QPSK	50	50	22.16	22.31	22.26						
20	QPSK	100	0	22.53	22.57	22.58						
20	16QAM	100	0	22.72	22.84	22.77						
20	16QAM	1	49	22.68	22.74	22.63	23.5	1				
20	16QAM	1	99	22.68	22.74	22.63						
20	16QAM	50	0	21.33	21.49	21.38						
20	16QAM	50	24	21.17	21.32	21.27						
20	16QAM	50	50	21.29	21.38	21.25	22.5	2				
20	16QAM	100	0	21.24	21.39	21.22						
20	16QAM	1	0	21.39	21.52	21.41						
20	16QAM	1	49	21.43	21.46	21.39						
20	16QAM	50	0	20.43	20.47	20.41	21.5	3				
20	16QAM	50	24	20.39	20.38	20.31						
20	16QAM	50	50	20.35	20.43	20.36						
20	16QAM	100	0	20.22	20.35	20.30						
20	256QAM	1	49	18.41	18.50	18.37	19.5	5				
20	256QAM	1	99	18.37	18.47	18.33						
20	256QAM	50	0	18.34	18.42	18.33						
20	256QAM	50	24	18.31	18.35	18.24						
20	256QAM	50	50	18.30	18.40	18.34	19.5	5				
20	256QAM	100	0	18.27	18.41	18.35						
Channel												
Frequency (MHz)												
18	QPSK	1	0	23.21	23.29	23.18	24.5	0				
18	QPSK	1	37	23.19	23.28	23.14						
18	QPSK	1	74	23.15	23.12	23.06						
18	QPSK	36	0	22.80	22.82	22.81						
18	QPSK	36	39	22.11	22.22	22.19	23.5	1				
18	QPSK	36	39	22.11	22.22	22.19						
18	QPSK	75	0	22.19	22.25	22.19						
18	16QAM	1	23.60	22.87	22.87							
18	16QAM	1	37	22.62	22.70	22.62	23.5	1				
18	16QAM	1	74	22.55	22.65	22.57						
18	16QAM	36	0	21.20	21.30	21.16						
18	16QAM	36	20	21.13	21.29	21.12						
18	16QAM	36	39	21.14	21.27	21.15	22.5	2				
18	16QAM	75	0	21.19	21.25	21.07						
18	16QAM	1	0	21.35	21.46	21.28						
18	16QAM	1	37	21.37	21.47	21.35						
18	16QAM	1	74	21.29	21.35	21.23	21.5	3				
18	16QAM	36	0	20.36	20.35	20.33						
18	16QAM	36	20	20.38	20.36	20.28						
18	16QAM	36	39	20.32	20.35	20.25						
18	16QAM	75	0	20.12	20.21	20.15	19.5	5				
18	256QAM	1	49	18.26	18.30	18.26						
18	256QAM	1	37	18.27	18.41	18.30						
18	256QAM	1	74	18.30	18.39	18.19						
18	256QAM	36	0	18.26	18.35	18.26	19.5	5				
18	256QAM	36	20	18.18	18.25	18.11						
18	256QAM	36	39	18.17	18.34	18.27						
18	256QAM	75	0	18.14	18.24	18.27						
Channel												
Frequency (MHz)												
18	QPSK	1	0	23.19	23.27	23.16	24.5	0				
18	QPSK	1	25	23.14	23.14	23.15						
18	QPSK	1	49	23.11	23.13	23.06						
18	QPSK	36	0	22.82	22.82	22.82						
18	QPSK	36	12	22.17	22.28	22.19	23.5	1				
18	QPSK	36	25	22.07	22.28	22.13						
18	QPSK	75	0	22.63	22.68	22.63						
18	16QAM	1	0	22.61	22.72	22.62						
18	16QAM	1	28	22.61	22.73	22.58	23.5	1				
18	16QAM	1	49	22.63	22.66	22.58						
18	16QAM	25	0	21.27	21.29	21.19						
18	16QAM	25	12	21.09	21.23	21.15						
18	16QAM	36	0	21.15	21.27	21.13	22.5	2				
18	16QAM	50	0	21.17	21.16	21.15						
18	16QAM	1	0	21.26	21.43	21.33						
18	16QAM	1	24	21.37	21.43	21.33						
18	16QAM	1	49	21.24	21.28	21.27	21.5	3				
18	16QAM	25	0	20.35	20.43	20.36						
18	16QAM	25	12	20.18	20.28	20.20						
18	16QAM	25	25	20.28	20.38	20.29						
18	16QAM	50	0	20.09	20.22	20.23	19.5	5				
18	256QAM	1	49	18.34	18.44	18.34						
18	256QAM	1	28	18.32	18.42	18.22						
18	256QAM	1	49	18.24	18.33	18.25						
18	256QAM	25	0	18.30	18.32	18.28						
18	256QAM	25	12	18.26	18.28	18.16						
18	256QAM	25	25	18.22	18.28	18.19						
18	256QAM	50	0	18.23	18.34	18.31						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.18	23.24	23.16	24.5	0				
5	QPSK	1	12	23.13	23.13	23.06						
5	QPSK	1	24	23.04	23.13	23.02						
5	QPSK	12	0	23.14	23.16	23.08						
5	QPSK	12	7	22.21	22.26	22.19	23.5	1				
5	QPSK	12	13	22.08	22.19	22.15						
5	QPSK	25	0	22.26	22.28	22.15						
5	16QAM	1	0	22.59	22.72	22.60						
5	16QAM	1	12	22.64	22.69	22.54	23.5	1				
5	16QAM	1	24	22.61	22.71	22.63						
5	16QAM	12	0	21.20	21.28	21.18						
5	16QAM	12	7	21.09	21.24	21.13						
5	16QAM	12	13	21.24	21.31	21.14	22.5	2				
5	16QAM	25	0	21.14	21.21	21.12						
5	16QAM	1	0	21.26	21.45	21.30						
5	16QAM	1	12	21.37	21.42	21.33						
5	16QAM	1	24	21.24	21.30	21.21	21.5	3				
5	16QAM	12	0	20.29	20.36	20.26						
5	16QAM	12	7	20.17	20.35	20.18						
5	16QAM	12	13	20.25	20.31	20.33						
5	16QAM	25	0	20.14	20.21	20.17	19.5	5				
5	256QAM	1	0	18.37	18.41	18.31						
5	256QAM	1	12	18.32	18.39	18.19						
5	256QAM	1	24	18.27	18.28	18.23						
5	256QAM	12	0	18.26	18.31	18.28	19.5	5				
5	256QAM	12	7	18.19	18.28	18.11						
5	256QAM	12	13	18.26	18.21	18.22						
5	256QAM	25	0	18.16	18.28	18.23						
Channel												
Frequency (MHz)												
3	QPSK	1	0	23.13	23.31	23.32	24.5	0				
3	QPSK	1	8	23.13	23.23	23.07						
3	QPSK	8	0	22.21	22.33	22.28						
3	QPSK	8	4	22.23	22.31	22.14						
3	QPSK	8	7	22.10	22.19	22.20	23.5	1				
3	QPSK	15	0	22.22	22.27	22.16						
3	16QAM	1	0	22.64	22.77	22.66						
3	16QAM	1	8	22.65	22.67	22.59						
3	16QAM	8	0	22.60	22.67	22.61	23.5	1				
3	16QAM	8	4	21.28	21.34	21.12						
3	16QAM	1	14	22.60	22.67	22.61	22.5	2				
3	16QAM	8	0	21.21	21.14	21.17						
3	16QAM	8	4	21.15	21.19	21.21						
3	16QAM	8	7	21.15	21.24	21.12						
3	16QAM	1	0	21.21	21.31	21.23	22.5	2				
3	16QAM	1	8	21.29	21.45	21.33						
3	16QAM	1	8	21.28	21.39	21.36						
3	16QAM	8	0	20.28	20.38	20.28						
3	16QAM	8	4	20.26	20.34	20.34	21.5	3				
3	16QAM	8	7	20.23	20.31	20.27						
3	16QAM	15	0	20.11	20.37	20.27						
3	256QAM	1	0	18.32	18.40	18.36						
3	256QAM	1	8	18.30	18.38	18.28	19.5	5				
3	256QAM	1	14	18.29	18.32	18.29						
3	256QAM	8	0	18.29	18.32	18.28						
3	256QAM	8	4	18.29	18.34	18.28						
3	256QAM	8	7	18.19	18.29	18.26	19.5	5				
3	256QAM	15	0	18.16	18.36	18.25						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	23.19	23.28	23.24				24.5	0	
1.4	QPSK	1	8	23.15	23.21	23.16						
1.4	QPSK	1	0	23.11	23.11	23.07						
1.4	QPSK	3	0	23.17	23.23	23.22						
1.4	QPSK	3	3	23.18	23.18	23.18	23.5	1				
1.4	QPSK	3	3	23.14	23.11	23.11						
1.4	QPSK	6	0	22.90	22.98	22.95						
1.4	QPSK	1	3	22.91	22.95	21.91						
1.4	16QAM	1	0	22.20	22.29	22.24	23.5	1				
1.4	16QAM	1	3	22.19	22.27	22.21						
1.4	16QAM	1	3	22.59	22.71	22.62						
1.4	16QAM	3	0	22.58	22.69	22.68						
1.4	16QAM	3	3	21.28	21.31	21.28	22.5	2				
1.4	16QAM	3	3	21.08	21.20	21.14						
1.4	16QAM	1	8	21.26	21.46	21.33						
1.4	16QAM	1	8	21.25	21.26	21.18						
1.4	16QAM	3	0	21.29	21.47	21.27	22.5	2				
1.4	16QAM	3	3	21.29	21.39	21.29						
1.4	16QAM	3	3	21.33	21.38	21.32						
1.4	16QAM	6	0	20.18	20.28	20.24						
1.4	16QAM	6	3	20.30	20.33	20.33	21.5	3				
1.4	16QAM	3	3	18.32	18.38	18.31						
1.4	16QAM	1	8	18.29	18.32	18.21						
1.4	16QAM	1	8	18.29	18.34	18.23						
1.4	256QAM	3	0	18.24	18.27	18.18	19.5	5				
1.4	256QAM	3	3	18.26	18.31	18.21						
1.4	256QAM	3	3	18.27	18.32	18.21						
1.4	256QAM	6	0	18.25	18.35	18.25						

Band 25 Main PA Ant4												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up (ms)	MPR (dB)				
Channel												
1800 1880 1900												
20	QPSK	1	0	23.31	23.42	23.27	24.5	0				
20	QPSK	1	49	23.29	23.34	23.24						
20	QPSK	1	99	23.16	23.29	23.21						
20	QPSK	50	0	22.24	22.52	22.30						
20	QPSK	50	24	22.22	22.24	22.12	23.5	1				
20	QPSK	100	0	22.16	22.25	22.20						
20	16QAM	1	0	22.65	22.65	22.66						
20	16QAM	1	49	22.48	22.59	22.47						
20	16QAM	1	99	22.52	22.55	22.43	23.5	1				
20	16QAM	50	0	21.31	21.39	21.28						
20	16QAM	50	24	21.19	21.28	21.15						
20	16QAM	50	50	21.18	21.25	21.21						
20	16QAM	100	0	21.19	21.29	21.19	22.5	2				
20	64QAM	1	0	21.44	21.51	21.47						
20	64QAM	1	49	21.31	21.45	21.39						
20	64QAM	1	99	21.27	21.41	21.28						
20	64QAM	50	0	20.31	20.42	20.32	21.5	3				
20	64QAM	50	24	20.19	20.33	20.22						
20	64QAM	50	50	20.28	20.38	20.25						
20	64QAM	100	0	20.27	20.30	20.26						
20	256QAM	1	0	18.45	18.50	18.36	19.5	5				
20	256QAM	1	49	18.40	18.47	18.42						
20	256QAM	1	99	18.38	18.42	18.32						
20	256QAM	50	0	18.28	18.41	18.28						
20	256QAM	50	24	18.27	18.31	18.18						
20	256QAM	50	50	18.25	18.37	18.33						
20	256QAM	100	0	18.23	18.30	18.25						
Channel												
1807.5 1880 1907.5												
15	QPSK	1	0	23.20	23.36	23.13	24.5	0				
15	QPSK	1	37	23.20	23.30	23.20						
15	QPSK	1	74	23.07	23.16	23.17						
15	QPSK	36	0	22.13	22.36	22.07						
15	QPSK	36	20	22.15	22.15	22.07	23.5	1				
15	QPSK	36	39	22.12	22.09	22.06						
15	QPSK	75	0	22.09	22.16	22.07						
15	16QAM	1	0	22.45	22.54	22.49						
15	16QAM	1	37	22.38	22.59	22.33	23.5	1				
15	16QAM	1	74	22.43	22.47	22.43						
15	16QAM	36	0	21.18	21.22	21.23						
15	16QAM	36	20	21.13	21.18	21.08						
15	16QAM	50	0	21.04	21.12	21.09	22.5	2				
15	64QAM	1	0	21.32	21.42	21.41						
15	64QAM	1	37	21.35	21.47	21.47						
15	64QAM	1	74	21.17	21.30	21.19						
15	64QAM	36	0	20.20	20.36	20.17	21.5	3				
15	64QAM	36	20	20.20	20.27	20.17						
15	64QAM	36	39	20.22	20.25	20.19						
15	64QAM	75	0	20.22	20.23	20.16						
15	256QAM	1	0	18.34	18.46	18.34	19.5	5				
15	256QAM	1	37	18.34	18.32	18.29						
15	256QAM	1	74	18.29	18.36	18.22						
15	256QAM	36	0	18.18	18.38	18.22						
15	256QAM	36	20	18.13	18.25	18.11	19.5	5				
15	256QAM	36	39	18.15	18.32	18.26						
15	256QAM	75	0	18.13	18.26	18.28						
Channel												
1809.5 1880 1909.5												
10	QPSK	1	0	23.27	23.30	23.15	24.5	0				
10	QPSK	1	25	23.17	23.24	23.20						
10	QPSK	1	49	23.10	23.18	23.09						
10	QPSK	25	12	22.16	22.19	22.07						
10	QPSK	25	19	22.04	22.11	22.01	23.5	1				
10	QPSK	50	0	22.12	22.12	22.12						
10	16QAM	1	0	22.42	22.50	22.47						
10	16QAM	1	25	22.34	22.50	22.42						
10	16QAM	1	49	22.45	22.45	22.36	23.5	1				
10	16QAM	25	0	21.22	21.30	21.19						
10	16QAM	25	12	21.14	21.17	21.08						
10	16QAM	25	19	21.05	21.10	21.15						
10	16QAM	50	0	21.08	21.10	21.07	22.5	2				
10	64QAM	1	0	21.32	21.36	21.44						
10	64QAM	1	25	21.35	21.35	21.38						
10	64QAM	1	49	21.17	21.34	21.18						
10	64QAM	25	0	20.24	20.30	20.29	21.5	3				
10	64QAM	25	12	20.25	20.30	20.18						
10	64QAM	25	19	20.23	20.30	20.20						
10	64QAM	50	0	20.20	20.22	20.20						
10	256QAM	1	0	18.40	18.43	18.33	19.5	5				
10	256QAM	1	25	18.36	18.39	18.33						
10	256QAM	1	49	18.30	18.35	18.27						
10	256QAM	25	0	18.21	18.25	18.21						
10	256QAM	25	12	18.20	18.20	18.12	19.5	5				
10	256QAM	25	19	18.11	18.25	18.20						
10	256QAM	50	0	18.20	18.20	18.24						
Channel												
1809.5 1880 1909.5												
5	QPSK	1	0	23.24	23.31	23.15	24.5	0				
5	QPSK	1	12	23.18	23.30	23.15						
5	QPSK	1	24	23.02	23.15	23.14						
5	QPSK	12	0	22.13	22.28	22.18						
5	QPSK	12	7	22.09	22.21	22.16	23.5	1				
5	QPSK	12	13	22.08	22.14	22.09						
5	QPSK	25	0	22.09	22.21	22.18						
5	16QAM	1	0	22.47	22.51	22.45						
5	16QAM	1	12	22.43	22.44	22.43	23.5	1				
5	16QAM	1	24	22.37	22.45	22.33						
5	16QAM	12	0	21.17	21.33	21.24						
5	16QAM	12	7	21.07	21.24	21.07						
5	16QAM	12	14	21.09	21.27	21.09	22.5	2				
5	16QAM	25	0	21.04	21.16	21.14						
5	64QAM	1	0	21.39	21.43	21.32						
5	64QAM	1	12	21.20	21.33	21.30						
5	64QAM	1	24	21.18	21.28	21.17	22.5	2				
5	64QAM	12	0	20.17	20.31	20.20						
5	64QAM	12	7	20.08	20.30	20.13						
5	64QAM	12	13	20.20	20.30	20.20						
5	64QAM	25	0	20.19	20.16	20.21	21.5	3				
5	64QAM	25	0	19.31	19.39	19.33						
5	256QAM	1	12	18.35	18.37	18.27						
5	256QAM	1	24	18.28	18.28	18.16						
5	256QAM	12	0	18.18	18.30	18.25	19.5	5				
5	256QAM	12	7	18.23	18.20	18.07						
5	256QAM	12	13	18.12	18.32	18.21						
5	256QAM	25	0	18.14	18.30	18.25						
Channel												
1809.5 1880 1909.5												
3	QPSK	1	0	23.24	23.30	23.15	24.5	0				
3	QPSK	1	8	23.18	23.24	23.16						
3	QPSK	1	14	23.03	23.22	23.08						
3	QPSK	8	0	22.16	22.27	22.11						
3	QPSK	8	4	22.12	22.16	22.13	23.5	1				
3	QPSK	8	7	22.05	22.14	22.08						
3	QPSK	15	0	22.02	22.14	22.14						
3	16QAM	1	0	22.50	22.60	22.42						
3	16QAM	1	8	22.38	22.45	22.36	23.5	1				
3	16QAM	1	14	22.44	22.46	22.33						
3	16QAM	8	0	22.22	22.23	22.19						
3	16QAM	8	4	21.16	21.17	21.01						
3	16QAM	8	7	21.11	21.20	21.11	22.5	2				
3	16QAM	15	0	21.23	21.20	21.18						
3	64QAM	1	0	21.35	21.44	21.39						
3	64QAM	1	8	21.27	21.33	21.29						
3	64QAM	1	14	21.19	21.36	21.31	21.5	3				
3	64QAM	8	0	20.30	20.35	20.30						
3	64QAM	8	4	20.16	20.23	20.20						
3	64QAM	8	7	20.18	20.28	20.20						
3	256QAM	1	0	18.40	18.44	18.24	19.5	5				
3	256QAM	1	8	18.34	18.43	18.27						
3	256QAM	1	14	18.25	18.36	18.18						
3	256QAM	8	0	18.18	18.38	18.21						
3	256QAM	8	4	18.25	18.25	18.14						
3	256QAM	8	7	18.15	18.30	18.30						
3	256QAM	15	0	18.22	18.27	18.27						
Channel												
1809.5 1880 1909.5												
1.4	QPSK	1	0	23.24	23.31	23.15	24.5	0				
1.4	QPSK	1	8	23.20	23.26	23.11						
1.4	QPSK	1	16	23.02	23.24	23.19						
1.4	QPSK	3	0	22.19	23.20	23.18						
1.4	QPSK	3	8	22.07	23.25	23.16	23.5	1				
1.4	QPSK	3	16	22.05	23.26	23.14						
1.4	16QAM	1	0	22.10	23.20	23.15						
1.4	16QAM	1	8	22.09	23.20	23.15						
1.4	16QAM	1	16	22.07	23.18	23.07	23.5	1				
1.4	16QAM	3	0	22.02	23.25	23.16						
1.4	16QAM	3	8	22.02	23.25	23.16						
1.4	16QAM	3	16	22.02	23.25	23.16						
1.4	16QAM	3	24	22.02	23.25	23.16	23.5	1				
1.4	16QAM	3	32	22.02	23.25	23.16						
1.4	16QAM	3	40	22.02	23.25	23.16						
1.4	16QAM	3	48	22.02	23.25	23.16						
1.4	16QAM	3	56	22.02	23.25	23.16	23.5	1				
1.4	16QAM	3	64	22.02	23.25	23.16						
1.4	16QAM	3	72	22.02	23.25	23.16						
1.4	16QAM	3	80	22.02	23.25	23.16						
1.4	16QAM	3	88	22.02	23.25	23.16	23.5	1				
1.4	16QAM	3	96	22.02	23.25	23.16						
1.4	16QAM	3	104	22.02	23.25	23.16						
1.4	16QAM	3	112	22.02	23.25	23.16						
1.4	16QAM	3	120	22.02	23.25	23.16	23.5	1				
1.4	16QAM	3	128	22.02	23.25	23.16						
1.4	16QAM	3	136	22.02	23.25	23.16						
1.4	16QAM	3	144	22.02	23.25	23.16						
1.4	16QAM	3	152	22.02	23.25	23.16	23.5	1				
1.4	16QAM	3	160	22.02	23.25	23.16						
1.4	16QAM	3	168	22.02	23.25	23.16						
1.4	16QAM	3	176	22.02	23.25	23.16						
1.4	16QAM	3	184	22.02	23.25	23.16	23.5	1				
1.4	16QAM	3	192	22.02	23.25	23.16						
1.4	16QAM	3	200	22.02	23.25	23.16						
1.4	16QAM	3	208	22.02	23.25	23.16						
1.4	16QAM											

Band 38 Main PA Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	25.21	25.27	25.12	25.7	0	
20	QPSK	1	48	25.11	25.23	25.10			
20	QPSK	1	96	25.05	25.16	25.02			
20	QPSK	50	0	24.16	24.28	24.21	24.7	1	
20	QPSK	50	24	24.19	24.22	24.18			
20	QPSK	50	48	24.16	24.24	24.13			
20	16QAM	1	0	24.26	24.31	24.22	24.7	1	
20	16QAM	1	48	24.08	24.22	24.07			
20	16QAM	1	96	24.04	24.10	24.02			
20	16QAM	50	0	23.21	23.28	23.20	23.7	2	
20	16QAM	50	24	23.27	23.30	23.24			
20	16QAM	50	50	23.26	23.34	23.29			
20	64QAM	1	48	23.16	23.22	23.14	23.7	2	
20	64QAM	1	96	23.08	23.19	23.13			
20	64QAM	50	0	22.23	22.28	22.15			
20	64QAM	50	24	22.18	22.25	22.12	22.7	3	
20	64QAM	50	50	22.17	22.25	22.19			
20	64QAM	100	0	20.13	20.17	20.13			
20	256QAM	1	48	20.23	20.28	20.19	20.7	5	
20	256QAM	1	96	20.11	20.16	20.09			
20	256QAM	1	96	20.00	20.07	19.95			
20	256QAM	50	0	20.00	20.12	20.00	20.7	5	
20	256QAM	50	24	20.00	20.10	20.04			
20	256QAM	50	50	20.14	20.18	20.08			
Channel				31765	36000	38178	Tune-up limit (dBm)	MPE (dB)	
Frequency (MHz)									
15	QPSK	1	0	25.17	25.21	25.06	25.7	0	
15	QPSK	1	37	25.02	25.20	24.99			
15	QPSK	1	74	24.94	25.05	24.94			
15	QPSK	36	0	24.16	24.22	24.12	24.7	1	
15	QPSK	36	20	24.08	24.12	24.11			
15	QPSK	36	40	24.08	24.12	24.08			
15	QPSK	75	0	24.10	24.14	24.08	24.7	1	
15	16QAM	1	0	24.20	24.24	24.17			
15	16QAM	1	37	23.97	24.09	24.01			
15	16QAM	1	74	23.91	24.00	23.90	23.7	2	
15	16QAM	36	0	23.07	23.22	23.05			
15	16QAM	36	20	23.10	23.15	23.13			
15	16QAM	36	36	23.10	23.21	23.18	23.7	2	
15	16QAM	75	0	23.07	23.15	23.11			
15	64QAM	1	0	23.04	23.18	23.10			
15	64QAM	1	37	23.03	23.11	23.07	23.7	2	
15	64QAM	1	74	22.92	23.04	22.93			
15	64QAM	36	0	22.12	22.23	22.11			
15	64QAM	36	20	22.08	22.10	22.03	22.7	3	
15	64QAM	36	40	22.08	22.10	22.04			
15	64QAM	75	0	22.06	22.10	22.04			
15	256QAM	1	0	20.14	20.14	20.05	20.7	5	
15	256QAM	1	37	19.95	19.95	19.87			
15	256QAM	1	74	19.96	19.98	19.92			
15	256QAM	36	0	19.95	20.05	19.97	20.7	5	
15	256QAM	36	20	19.89	19.99	19.97			
15	256QAM	36	40	20.01	20.05	19.99			
15	256QAM	75	0	19.99	20.13	19.98	20.7	5	
Channel				31760	36000	38200	Tune-up limit (dBm)	MPE (dB)	
Frequency (MHz)									
10	QPSK	1	0	25.16	25.18	24.98	25.7	0	
10	QPSK	1	25	25.00	25.08	25.03			
10	QPSK	1	48	24.93	25.04	24.93			
10	QPSK	20	0	24.07	24.22	24.17	24.7	1	
10	QPSK	25	12	24.12	24.09	24.02			
10	QPSK	25	25	24.08	24.17	24.06			
10	16QAM	1	0	24.07	24.21	24.02	24.7	1	
10	16QAM	1	0	24.23	24.24	24.14			
10	16QAM	1	25	23.93	24.17	24.08			
10	16QAM	1	48	24.00	23.98	23.98	24.7	1	
10	16QAM	25	0	23.16	23.21	23.19			
10	16QAM	25	12	23.21	23.15	23.15			
10	16QAM	25	25	23.15	23.22	23.17	23.7	2	
10	16QAM	50	0	23.10	23.12	23.05			
10	64QAM	1	0	23.12	23.22	23.05			
10	64QAM	1	25	23.01	23.12	22.99	23.7	2	
10	64QAM	1	48	22.92	23.08	22.92			
10	64QAM	25	0	22.16	22.24	22.05			
10	64QAM	25	12	22.06	22.15	22.04	22.7	3	
10	64QAM	25	25	22.10	22.20	22.14			
10	64QAM	50	0	22.00	22.03	22.05			
10	256QAM	1	0	20.11	20.11	20.06	20.7	5	
10	256QAM	1	25	19.98	20.02	19.95			
10	256QAM	1	48	19.90	19.92	19.91			
10	256QAM	25	0	19.95	19.99	19.98	20.7	5	
10	256QAM	25	12	19.92	20.00	19.90			
10	256QAM	25	25	20.00	20.14	20.03			
10	256QAM	50	0	19.93	20.13	19.97	20.7	5	
Channel				31775	36000	38250	Tune-up limit (dBm)	MPE (dB)	
Frequency (MHz)									
5	QPSK	1	0	25.17	25.19	25.02	25.7	0	
5	QPSK	1	12	25.00	25.15	25.02			
5	QPSK	1	24	24.99	25.05	24.91			
5	QPSK	12	0	24.96	24.17	24.11	24.7	1	
5	QPSK	12	7	24.13	24.11	24.00			
5	QPSK	12	19	24.02	24.15	24.04			
5	QPSK	25	0	24.09	24.13	24.03	24.7	1	
5	16QAM	1	0	24.14	24.17	24.11			
5	16QAM	1	12	23.99	24.13	23.93			
5	16QAM	1	24	23.99	23.95	23.98	24.7	1	
5	16QAM	12	0	23.18	23.18	23.11			
5	16QAM	12	7	23.12	23.22	23.15			
5	16QAM	12	13	23.09	23.18	23.09	23.7	2	
5	16QAM	25	0	23.07	23.20	23.12			
5	64QAM	1	0	23.07	23.20	23.12			
5	64QAM	1	12	22.96	23.13	23.03	23.7	2	
5	64QAM	1	24	22.96	23.02	22.91			
5	64QAM	12	0	22.17	22.15	22.07			
5	64QAM	12	7	22.06	22.13	22.02	22.7	3	
5	64QAM	12	13	22.13	22.15	22.12			
5	64QAM	25	0	22.10	22.04	22.06			
5	256QAM	1	0	20.09	20.23	20.11	20.7	5	
5	256QAM	1	12	19.97	20.12	20.01			
5	256QAM	1	24	19.88	19.94	19.88			
5	256QAM	12	0	19.98	19.99	19.98	20.7	5	
5	256QAM	12	7	19.85	19.88	19.94			
5	256QAM	12	13	20.00	20.09	19.95			
5	256QAM	25	0	19.92	20.05	19.91	20.7	5	
Channel				31775	36000	38250	Tune-up limit (dBm)	MPE (dB)	
Frequency (MHz)									
5	QPSK	1	0	25.17	25.19	25.02	25.7	0	
5	QPSK	1	12	25.00	25.15	25.02			
5	QPSK	1	24	24.99	25.05	24.91			
5	QPSK	12	0	24.96	24.17	24.11	24.7	1	
5	QPSK	12	7	24.13	24.11	24.00			
5	QPSK	12	19	24.02	24.15	24.04			
5	QPSK	25	0	24.09	24.13	24.03	24.7	1	
5	16QAM	1	0	24.14	24.17	24.11			
5	16QAM	1	12	23.99	24.13	23.93			
5	16QAM	1	24	23.99	23.95	23.98	24.7	1	
5	16QAM	12	0	23.18	23.18	23.11			
5	16QAM	12	7	23.12	23.22	23.15			
5	16QAM	12	13	23.09	23.18	23.09	23.7	2	
5	16QAM	25	0	23.07	23.20	23.12			
5	64QAM	1	0	23.07	23.20	23.12			
5	64QAM	1	12	22.96	23.13	23.03	23.7	2	
5	64QAM	1	24	22.96	23.02	22.91			
5	64QAM	12	0	22.17	22.15	22.07			
5	64QAM	12	7	22.06	22.13	22.02	22.7	3	
5	64QAM	12	13	22.13	22.15	22.12			
5	64QAM	25	0	22.10	22.04	22.06			
5	256QAM	1	0	20.09	20.23	20.11	20.7	5	
5	256QAM	1	12	19.97	20.12	20.01			
5	256QAM	1	24	19.88	19.94	19.88			
5	256QAM	12	0	19.98	19.99	19.98	20.7	5	
5	256QAM	12	7	19.85	19.88	19.94			
5	256QAM	12	13	20.00	20.09	19.95			
5	256QAM	25	0	19.92	20.05	19.91	20.7	5	
Channel				31775	36000	38250	Tune-up limit (dBm)	MPE (dB)	
Frequency (MHz)									
5	QPSK	1	0	25.17	25.19	25.02	25.7	0	
5	QPSK	1	12	25.00	25.15	25.02			
5	QPSK	1	24	24.99	25.05	24.91			
5	QPSK	12	0	24.96	24.17	24.11	24.7	1	
5	QPSK	12	7	24.13	24.11	24.00			
5	QPSK	12	19	24.02	24.15	24.04			
5	QPSK	25	0	24.09	24.13	24.03	24.7	1	
5	16QAM	1	0	24.14	24.17	24.11			
5	16QAM	1	12	23.99	24.13	23.93			
5	16QAM	1	24	23.99	23.95	23.98	24.7	1	
5	16QAM	12	0	23.18	23.18	23.11			
5	16QAM	12	7	23.12	23.22	23.15			
5	16QAM	12	13	23.09	23.18	23.09	23.7	2	
5	16QAM	25	0	23.07	23.20	23.12			
5	64QAM	1	0	23.07	23.20	23.12			
5	64QAM	1	12	22.96	23.13	23.03	23.7	2	
5	64QAM	1	24	22.96	23.02	22.91			
5	64QAM	12	0	22.17	22.15	22.07			
5	64QAM	12	7	22.06	22.13	22.02	22.7	3	
5	64QAM	12	13	22.13	22.15	22.12			
5	64QAM	25	0	22.10	22.04	22.06			
5	256QAM	1	0	20.09	20.23	20.11	20.7	5	
5	256QAM	1	12	19.97	20.12	20.01			
5	256QAM	1	24	19.88	19.94	19.88			
5	256QAM	12	0	19.98	19.99	19.98	20.7	5	
5	256QAM	12	7	19.85	19.88	19.94			
5	256QAM	12	13	20.00	20.09	19.95			
5	256QAM	25							

Band 42 FCC Part27Q Main PA Ant5												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
42190 42690 42990												
20	QPSK	1	0	25.00	25.05	24.97	25.5	0				
20	QPSK	1	40	24.86	24.94	24.84						
20	QPSK	1	80	24.76	24.80	24.83						
20	QPSK	50	0	23.85	23.95	23.91						
20	QPSK	50	24	23.76	23.88	23.83	24.5	1				
20	QPSK	50	40	23.78	23.78	23.78						
20	QPSK	100	0	23.80	23.89	23.81						
20	HQAM	1	0	23.69	23.77	23.71						
20	HQAM	1	40	23.68	23.71	23.62	24.5	1				
20	HQAM	1	80	23.63	23.72	23.57						
20	HQAM	50	0	22.94	22.95	22.92						
20	HQAM	50	24	22.81	22.97	22.83						
20	HQAM	50	50	22.92	22.86	22.86	23.5	2				
20	HQAM	100	0	22.94	22.96	22.74						
20	HQAM	1	0	22.51	22.75	22.64						
20	HQAM	1	40	22.57	22.67	22.63						
20	HQAM	1	80	22.53	22.57	22.53	23.5	2				
20	HQAM	50	0	21.85	21.89	21.81						
20	HQAM	50	24	21.62	21.74	21.64						
20	HQAM	50	50	21.61	21.75	21.68						
20	HQAM	100	0	21.65	21.72	21.61	22.5	3				
20	25SQAM	1	0	19.76	19.84	19.70						
20	25SQAM	1	40	19.87	19.80	19.87						
20	25SQAM	1	80	19.84	19.79	19.73						
20	25SQAM	50	0	19.88	19.82	19.86	20.5	5				
20	25SQAM	50	24	19.57	19.63	19.51						
20	25SQAM	50	50	19.64	19.75	19.68						
20	25SQAM	100	0	19.75	19.84	19.57						
Channel												
42190 42690 42990												
15	QPSK	1	0	24.52	24.56	24.54	25.5	0				
15	QPSK	1	40	24.78	24.87	24.70						
15	QPSK	1	74	24.71	24.76	24.70						
15	QPSK	36	0	23.78	23.82	23.82						
15	QPSK	36	20	23.61	23.74	23.73	24.5	1				
15	QPSK	36	50	23.68	23.68	23.68						
15	QPSK	75	0	23.68	23.82	23.70						
15	HQAM	1	0	23.54	23.70	23.59						
15	HQAM	1	40	23.53	23.59	23.57	24.5	1				
15	HQAM	1	74	23.49	23.57	23.48						
15	HQAM	36	0	22.91	22.99	22.80						
15	HQAM	36	20	22.71	22.81	22.73						
15	HQAM	36	50	22.85	22.89	22.79	23.5	2				
15	HQAM	75	0	22.85	22.89	22.79						
15	HQAM	1	0	22.55	22.68	22.50						
15	HQAM	1	27	22.50	22.64	22.50						
15	HQAM	1	74	22.45	22.45	22.44	23.5	2				
15	HQAM	36	0	21.73	21.85	21.71						
15	HQAM	36	20	21.67	21.69	21.58						
15	HQAM	36	50	21.62	21.65	21.54						
15	HQAM	75	0	21.52	21.55	21.51	22.5	3				
15	25SQAM	1	0	19.68	19.79	19.58						
15	25SQAM	1	40	19.65	19.75	19.62						
15	25SQAM	1	74	19.53	19.69	19.62						
15	25SQAM	36	0	19.65	19.72	19.59	20.5	5				
15	25SQAM	36	20	19.49	19.52	19.37						
15	25SQAM	36	50	19.59	19.61	19.58						
15	25SQAM	75	0	19.51	19.53	19.51						
Channel												
42190 42690 42990												
10	QPSK	1	0	24.48	24.48	24.42	25.5	0				
10	QPSK	1	25	24.79	24.80	24.77						
10	QPSK	1	40	24.61	24.81	24.79						
10	QPSK	25	0	23.80	23.85	23.80						
10	QPSK	25	12	23.72	23.83	23.68	24.5	1				
10	QPSK	25	25	23.66	23.78	23.66						
10	QPSK	50	0	23.73	23.85	23.74						
10	HQAM	1	0	23.56	23.67	23.67						
10	HQAM	1	25	23.58	23.60	23.56	24.5	1				
10	HQAM	1	40	23.58	23.67	23.42						
10	HQAM	25	0	22.83	22.94	22.89						
10	HQAM	25	12	22.68	22.67	22.70						
10	HQAM	25	25	22.85	22.85	22.76	23.5	2				
10	HQAM	50	0	22.79	22.85	22.69						
10	HQAM	1	0	22.55	22.67	22.52						
10	HQAM	1	25	22.52	22.59	22.52						
10	HQAM	1	40	22.43	22.48	22.46	23.5	2				
10	HQAM	25	0	21.78	21.82	21.75						
10	HQAM	25	12	21.58	21.59	21.59						
10	HQAM	25	25	21.60	21.66	21.61						
10	HQAM	50	0	21.60	21.63	21.53	22.5	3				
10	25SQAM	1	0	19.72	19.80	19.56						
10	25SQAM	1	25	19.58	19.73	19.64						
10	25SQAM	1	40	19.51	19.70	19.67						
10	25SQAM	25	0	19.59	19.76	19.69	20.5	5				
10	25SQAM	25	12	19.47	19.50	19.47						
10	25SQAM	25	25	19.55	19.63	19.57						
10	25SQAM	50	0	19.49	19.52	19.47						
Channel												
42190 42690 42990												
5	QPSK	1	0	24.89	24.93	24.82	25.5	0				
5	QPSK	1	12	24.80	24.87	24.77						
5	QPSK	1	24	24.98	24.75	24.72						
5	QPSK	12	0	23.74	23.94	23.94						
5	QPSK	12	7	23.62	23.72	23.72	24.5	1				
5	QPSK	12	13	23.75	23.81	23.75						
5	QPSK	25	0	23.78	23.77	23.74						
5	HQAM	1	0	23.58	23.74	23.57						
5	HQAM	1	12	23.56	23.58	23.53	24.5	1				
5	HQAM	1	24	23.58	23.67	23.43						
5	HQAM	12	0	22.85	22.94	22.77						
5	HQAM	12	7	22.68	22.67	22.71						
5	HQAM	12	13	22.86	22.84	22.71	23.5	2				
5	HQAM	25	0	22.72	22.84	22.68						
5	HQAM	1	0	22.48	22.65	22.50						
5	HQAM	1	12	22.49	22.62	22.57						
5	HQAM	1	24	22.49	22.47	22.44	23.5	2				
5	HQAM	12	0	21.77	21.86	21.72						
5	HQAM	12	7	21.56	21.67	21.58						
5	HQAM	12	13	21.67	21.64	21.60						
5	HQAM	25	0	21.53	21.68	21.58	22.5	3				
5	25SQAM	1	0	19.64	19.70	19.56						
5	25SQAM	1	12	19.66	19.71	19.62						
5	25SQAM	1	24	19.60	19.71	19.59						
5	25SQAM	12	0	19.58	19.76	19.59	20.5	5				
5	25SQAM	12	7	19.40	19.45	19.47						
5	25SQAM	12	13	19.59	19.69	19.58						
5	25SQAM	25	0	19.49	19.50	19.45						

Band 48 Main PA Ant5											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel											
Frequency (MHz)											
				56540	56930	56930	56930				
20	QPSK	1	0	25.08	25.11	25.05	25.00	25.5	0		
20	QPSK	1	40	25.00	25.03	24.91	24.86				
20	QPSK	1	80	24.94	24.96	24.93	24.83				
20	QPSK	50	0	23.98	24.11	24.06	23.99				
20	QPSK	50	24	23.93	23.97	23.87	23.92	24.5	1		
20	QPSK	1	0	23.98	24.01	23.97	23.92				
20	QPSK	1	40	23.90	23.93	23.83	23.88				
20	QPSK	100	0	23.92	24.05	23.91	23.86				
20	16QAM	1	0	23.84	23.82	23.74	23.73	24.5	1		
20	16QAM	1	40	23.82	23.80	23.72	23.70				
20	16QAM	1	80	23.76	23.83	23.71	23.70				
20	16QAM	50	0	23.10	23.14	23.10	23.09				
20	16QAM	50	24	22.97	22.98	22.88	22.91	23.5	2		
20	16QAM	1	0	22.96	22.98	22.85	22.89				
20	16QAM	1	40	22.88	22.94	22.82	22.87				
20	16QAM	100	0	22.90	23.02	22.86	22.94				
20	16QAM	1	40	22.87	22.84	22.75	22.81	23.5	2		
20	16QAM	1	80	22.80	22.86	22.74	22.84				
20	16QAM	50	0	21.91	21.95	21.87	21.90				
20	16QAM	50	24	21.70	21.81	21.68	21.68				
20	256QAM	1	0	21.78	21.88	21.74	21.82	22.5	3		
20	256QAM	1	40	21.79	21.86	21.74	21.73				
20	256QAM	1	80	21.72	21.85	21.68	21.80				
20	256QAM	100	0	21.82	21.90	21.77	21.85				
20	256QAM	50	24	19.70	19.75	19.72	19.75	20.5	5		
20	256QAM	50	80	19.76	19.85	19.75	19.66				
20	256QAM	50	100	19.82	19.88	19.63	19.65				
Channel											
				56515	56928	56928	56965	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)											
				56514	56931	56931	56931				
16	QPSK	1	0	25.01	25.07	24.99	24.95	25.5	0		
16	QPSK	1	87	24.94	24.97	24.81	24.87				
16	QPSK	1	74	24.70	24.84	24.62	24.70				
16	QPSK	50	0	23.91	24.05	23.89	23.91				
16	QPSK	50	20	23.89	23.90	23.78	23.85	24.5	1		
16	QPSK	1	0	23.90	23.93	23.83	23.84				
16	QPSK	1	40	23.82	23.87	23.74	23.80				
16	QPSK	75	0	23.85	23.88	23.84	23.75				
16	16QAM	1	0	23.72	23.73	23.61	23.68	24.5	1		
16	16QAM	1	40	23.73	23.77	23.63	23.67				
16	16QAM	1	74	23.63	23.69	23.52	23.63				
16	16QAM	50	0	22.99	23.09	22.90	22.95				
16	16QAM	50	20	22.73	22.86	22.69	22.78	23.5	2		
16	16QAM	1	0	22.74	22.78	22.65	22.71				
16	16QAM	1	40	22.61	23.01	22.57	22.56				
16	16QAM	75	0	22.78	22.80	22.67	22.72				
16	16QAM	1	0	22.73	22.72	22.66	22.66	23.5	2		
16	16QAM	1	37	22.59	22.77	22.45	22.65				
16	16QAM	25	0	22.62	22.63	22.55	22.53				
16	16QAM	36	0	21.77	21.84	21.81	21.81				
16	16QAM	36	20	21.67	21.68	21.55	21.60	22.5	3		
16	16QAM	50	0	21.64	21.65	21.55	21.55				
16	16QAM	75	0	21.71	21.83	21.65	21.61				
16	16QAM	100	0	21.76	21.85	21.68	21.70				
16	256QAM	1	37	19.58	19.65	19.65	19.62	20.5	5		
16	256QAM	1	74	19.58	19.68	19.65	19.60				
16	256QAM	50	0	19.57	19.66	19.62	19.76				
16	256QAM	50	20	19.61	19.70	19.52	19.64				
16	256QAM	36	30	19.61	19.77	19.63	19.53	20.5	5		
16	256QAM	36	50	19.63	19.63	19.68	19.47				
Channel											
				56290	56916	56916	56960			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)											
				56289	56923	56923	56923				
16	QPSK	1	0	24.93	24.99	24.91	24.94	25.5	0		
16	QPSK	1	25	24.87	24.96	24.83	24.87				
16	QPSK	1	40	24.71	24.84	24.62	24.71				
16	QPSK	25	0	23.87	23.98	23.95	23.87				
16	QPSK	25	12	23.87	23.94	23.77	23.85	24.5	1		
16	QPSK	1	0	23.88	23.95	23.84	23.84				
16	QPSK	50	0	23.85	23.94	23.81	23.83				
16	16QAM	1	0	23.76	23.73	23.67	23.68				
16	16QAM	1	40	23.73	23.77	23.64	23.61	24.5	1		
16	16QAM	1	49	23.57	23.77	23.56	23.59				
16	16QAM	50	0	22.98	23.05	22.95	23.01				
16	16QAM	25	0	22.83	23.06	22.77	22.84				
16	16QAM	25	12	22.80	22.95	22.89	22.89	23.5	2		
16	16QAM	1	0	22.82	22.86	22.78	22.76				
16	16QAM	1	0	22.68	22.70	22.65	22.67				
16	16QAM	1	26	22.62	22.73	22.54	22.65				
16	16QAM	25	0	21.76	21.90	21.80	21.78	23.5	2		
16	16QAM	25	12	21.68	21.76	21.55	21.55				
16	16QAM	25	24	21.67	21.77	21.54	21.77				
16	16QAM	50	0	21.74	21.82	21.65	21.68				
16	256QAM	1	0	19.69	19.70	19.68	19.68	20.5	5		
16	256QAM	1	26	19.61	19.64	19.65	19.52				
16	256QAM	1	49	19.67	19.84	19.61	19.79				
16	256QAM	25	0	19.67	19.67	19.68	19.67				
16	256QAM	25	12	19.68	19.68	19.69	19.65	20.5	5		
16	256QAM	25	24	19.69	19.69	19.68	19.64				
Channel											
				56265	56910	56910	56915			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)											
				56264	56909	56909	56909				
16	QPSK	1	0	24.98	25.00	24.92	24.97	25.5	0		
16	QPSK	1	12	24.94	24.97	24.81	24.90				
16	QPSK	1	24	24.80	24.88	24.65	24.72				
16	QPSK	12	0	23.85	24.07	23.95	23.96				
16	QPSK	12	7	23.85	23.89	23.81	23.83	24.5	1		
16	QPSK	1	0	23.82	23.84	23.78	23.78				
16	QPSK	26	0	23.84	23.93	23.86	23.79				
16	QPSK	1	0	23.78	23.70	23.61	23.63				
16	16QAM	1	0	23.74	23.75	23.64	23.71	24.5	1		
16	16QAM	1	24	23.61	23.70	23.61	23.58				
16	16QAM	1	25	23.53	23.68	23.56	23.54				
16	16QAM	12	7	22.80	22.98	22.79	22.83				
16	16QAM	12	13	22.83	22.97	22.84	22.86	23.5	2		
16	16QAM	1	0	22.72	22.88	22.71	22.86				
16	16QAM	1	0	22.75	22.81	22.73	22.75				
16	16QAM	1	12	22.63	22.76	22.74	22.73				
16	16QAM	12	13	22.69	22.72	22.43	22.43	22.5	3		
16	16QAM	1	0	21.87	21.85	21.82	21.85				
16	16QAM	1	0	21.80	21.73	21.71	21.78				
16	16QAM	12	13	21.84	21.74	21.72	21.78				
16	256QAM	1	0	21.74	21.81	21.63	21.61	22.5	3		
16	256QAM	1	12	21.73	21.87	21.71	21.76				
16	256QAM	1	12	19.68	19.74	19.60	19.68				
16	256QAM	1	24	19.68	19.86	19.63	19.79				
16	256QAM	12	7	19.74	19.74	19.68	19.77	20.5	5		
16	256QAM	12	7	19.60	19.60	19.60	19.65				
16	256QAM	12	13	19.64	19.65	19.69	19.63				
16	256QAM	12	13	19.65	19.65	19.68	19.64				

Band 42 FCC Part27Q Main PA Ant6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				42190	42590	42990				
Frequency (MHz)				3474.5	3500	3525.5				
20	QPSK	1	0	24.73	24.77	24.88	25.5	0		
20	QPSK	1	49	24.65	24.69	24.81				
20	QPSK	1	89	24.56	24.64	24.89				
20	QPSK	50	0	23.65	23.72	23.84	24.5	1		
20	QPSK	50	24	23.57	23.68	23.85				
20	QPSK	50	49	23.52	23.65	23.87				
20	QPSK	100	0	23.51	23.63	23.84	24.5	1		
20	HQAM	1	0	23.62	23.68	23.82				
20	HQAM	1	49	23.63	23.72	23.88				
20	HQAM	1	89	23.34	23.48	23.40	23.5	2		
20	HQAM	50	0	22.98	22.97	22.97				
20	HQAM	50	24	22.95	22.99	22.98				
20	HQAM	50	50	22.94	22.80	22.49	23.5	2		
20	HQAM	100	0	22.43	22.57	22.48				
20	HQAM	100	0	22.40	22.41	22.40				
20	HQAM	1	49	22.29	22.38	22.35	22.5	3		
20	HQAM	1	89	22.33	22.36	22.34				
20	HQAM	50	0	21.83	21.87	21.80				
20	HQAM	50	24	21.45	21.58	21.53	20.5	5		
20	HQAM	50	50	21.48	21.63	21.68				
20	HQAM	100	0	21.45	21.56	21.49				
20	25SQAM	1	0	19.34	19.47	19.38	20.5	5		
20	25SQAM	1	49	19.26	19.46	19.40				
20	25SQAM	1	89	19.25	19.39	19.31				
20	25SQAM	50	0	19.47	19.47	19.32	20.5	5		
20	25SQAM	50	24	19.37	19.31	19.22				
20	25SQAM	50	50	19.31	19.37	19.23				
20	25SQAM	100	0	19.25	19.28	19.28				
Channel				42196	42596	42916	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3477.5	3500	3524.5				
15	QPSK	1	0	24.73	24.71	24.63	25.5	0		
15	QPSK	1	47	24.68	24.65	24.47				
15	QPSK	1	74	24.52	24.65	24.48				
15	QPSK	36	0	23.64	23.69	23.68	24.5	1		
15	QPSK	36	20	23.47	23.69	23.46				
15	QPSK	36	36	23.48	23.67	23.47				
15	HQAM	1	0	23.45	23.49	23.48	24.5	1		
15	HQAM	1	47	23.33	23.45	23.36				
15	HQAM	1	74	23.30	23.42	23.32				
15	HQAM	36	0	22.48	22.58	22.53	23.5	2		
15	HQAM	36	20	22.47	22.49	22.38				
15	HQAM	36	36	22.46	22.53	22.40				
15	HQAM	75	0	22.29	22.45	22.43	23.5	2		
15	HQAM	75	0	22.29	22.45	22.43				
15	HQAM	1	27	22.19	22.27	22.23				
15	HQAM	1	74	22.11	22.27	22.19	22.5	3		
15	HQAM	36	0	21.49	21.55	21.48				
15	HQAM	36	20	21.38	21.49	21.39				
15	HQAM	75	0	21.32	21.51	21.35	20.5	5		
15	25SQAM	1	0	19.25	19.34	19.23				
15	25SQAM	1	47	19.23	19.33	19.23				
15	25SQAM	1	74	19.16	19.24	19.18	20.5	5		
15	25SQAM	36	0	19.21	19.38	19.20				
15	25SQAM	36	20	19.08	19.27	19.14				
15	25SQAM	36	36	19.07	19.23	19.13	20.5	5		
15	25SQAM	75	0	19.17	19.34	19.22				
15	25SQAM	75	0	19.16	19.34	19.22				
Channel				42196	42596	42916	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3477.5	3500	3547.5				
10	QPSK	1	0	24.68	24.70	24.64	25.5	0		
10	QPSK	1	25	24.54	24.65	24.51				
10	QPSK	1	49	24.52	24.63	24.53				
10	QPSK	25	0	23.67	23.67	23.68	24.5	1		
10	QPSK	25	12	23.54	23.58	23.47				
10	QPSK	25	25	23.51	23.51	23.46				
10	QPSK	50	0	23.38	23.51	23.49	24.5	1		
10	HQAM	1	0	23.49	23.51	23.39				
10	HQAM	1	25	23.38	23.45	23.34				
10	HQAM	1	49	23.39	23.51	23.38	24.5	1		
10	HQAM	25	0	22.54	22.54	22.51				
10	HQAM	25	12	22.46	22.49	22.39				
10	HQAM	25	25	22.40	22.57	22.43	23.5	2		
10	HQAM	50	0	22.34	22.53	22.42				
10	HQAM	50	0	22.30	22.53	22.34				
10	HQAM	1	49	22.02	22.28	22.27	23.5	2		
10	HQAM	1	49	22.05	22.29	22.19				
10	HQAM	25	0	21.85	21.85	21.48				
10	HQAM	25	12	21.35	21.53	21.45	22.5	3		
10	HQAM	25	25	21.43	21.54	21.52				
10	HQAM	50	0	21.40	21.49	21.40				
10	25SQAM	1	0	19.28	19.37	19.32	20.5	5		
10	25SQAM	1	25	19.26	19.41	19.30				
10	25SQAM	1	49	19.13	19.26	19.23				
10	25SQAM	25	0	19.23	19.38	19.24	20.5	5		
10	25SQAM	25	12	19.05	19.26	19.12				
10	25SQAM	25	25	19.07	19.27	19.12				
10	25SQAM	50	0	19.11	19.33	19.16				
Channel				42196	42596	42916	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3475.5	3500	3547.5				
5	QPSK	1	0	24.68	24.70	24.64	25.5	0		
5	QPSK	1	12	24.52	24.64	24.58				
5	QPSK	1	24	24.45	24.57	24.52				
5	QPSK	12	0	23.68	23.67	23.68	24.5	1		
5	QPSK	12	7	23.69	23.67	23.48				
5	QPSK	12	13	23.51	23.57	23.53				
5	QPSK	25	0	23.49	23.51	23.49	24.5	1		
5	HQAM	1	0	23.40	23.45	23.39				
5	HQAM	1	12	23.31	23.47	23.41				
5	HQAM	1	24	23.23	23.45	23.29	23.5	2		
5	HQAM	12	0	22.49	22.52	22.44				
5	HQAM	12	7	22.51	22.51	22.38				
5	HQAM	12	13	22.47	22.54	22.45	23.5	2		
5	HQAM	25	0	22.28	22.43	22.40				
5	HQAM	1	12	22.27	22.33	22.28				
5	HQAM	1	24	22.10	22.28	22.13	22.5	3		
5	HQAM	12	0	21.50	21.56	21.46				
5	HQAM	12	7	21.52	21.45	21.38				
5	HQAM	12	13	21.44	21.58	21.44	20.5	5		
5	HQAM	25	0	21.37	21.47	21.40				
5	HQAM	25	0	19.29	19.30	19.28				
5	25SQAM	1	12	19.27	19.37	19.33	20.5	5		
5	25SQAM	1	24	19.19	19.33	19.19	20.5	5		
5	25SQAM	1	49	19.18	19.31	19.18				
5	25SQAM	12	7	19.04	19.27	19.19				
5	25SQAM	12	13	19.27	19.24	19.16				

Band 42 FCC Part27Q Mian PA Ant7												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.52	23.55	23.48	24.5	0				
20	QPSK	1	49	23.52	23.44	23.38						
20	QPSK	1	98	23.38	23.42	23.36						
20	QPSK	50	0	22.45	22.44	22.40	23.5	1				
20	QPSK	50	24	22.37	22.49	22.43						
20	QPSK	50	49	22.43	22.32	22.39						
20	QPSK	100	0	22.28	22.37	22.25	23.5	1				
20	HQAM	1	0	22.28	22.37	22.33						
20	HQAM	1	49	22.30	22.33	22.19						
20	HQAM	1	99	22.13	22.25	22.12	22.5	2				
20	HQAM	50	0	21.40	21.36	21.46						
20	HQAM	50	24	21.32	21.46	21.38						
20	HQAM	50	50	21.34	21.40	21.39	22.5	2				
20	HQAM	100	0	21.21	21.34	21.25						
20	HQAM	100	0	21.25	21.42	21.33						
20	HQAM	1	49	21.37	21.36	21.28	21.5	3				
20	HQAM	1	99	21.15	21.25	21.12						
20	HQAM	50	0	20.41	20.50	20.43						
20	HQAM	50	24	20.35	20.38	20.28	19.5	5				
20	HQAM	50	50	20.32	20.45	20.33						
20	HQAM	100	0	20.26	20.35	20.28						
20	25QAM	1	0	18.24	18.36	18.35	19.5	5				
20	25QAM	1	49	18.27	18.30	18.17						
20	25QAM	1	99	18.24	18.30	18.25						
20	25QAM	50	0	18.28	18.29	18.36	19.5	5				
20	25QAM	50	24	18.09	18.22	18.16						
20	25QAM	50	50	18.06	18.19	18.10						
20	25QAM	100	0	18.09	18.20	18.14						
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.44	23.50	23.43	24.5	0				
15	QPSK	1	47	23.28	23.32	23.32						
15	QPSK	1	74	23.22	23.30	23.24						
15	QPSK	36	0	22.41	22.30	22.30	23.5	1				
15	QPSK	36	20	22.28	22.30	22.35						
15	QPSK	36	36	22.22	22.30	22.18						
15	QPSK	75	0	22.24	22.32	22.11	23.5	1				
15	HQAM	1	0	22.25	22.29	22.25						
15	HQAM	1	37	22.13	22.14	22.14						
15	HQAM	1	74	22.07	22.10	22.03	22.5	2				
15	HQAM	36	0	21.31	21.37	21.37						
15	HQAM	36	20	21.29	21.36	21.29						
15	HQAM	36	36	21.31	21.34	21.31	22.5	2				
15	HQAM	75	0	21.14	21.21	21.15						
15	HQAM	1	0	21.24	21.29	21.22						
15	HQAM	1	37	21.18	21.32	21.15	21.5	3				
15	HQAM	1	74	21.11	21.22	21.09						
15	HQAM	36	0	20.33	20.45	20.38						
15	HQAM	36	20	20.25	20.29	20.22	19.5	5				
15	HQAM	36	36	20.15	20.22	20.22						
15	HQAM	75	0	20.15	20.22	20.22						
15	25QAM	1	0	18.17	18.18	18.06	19.5	5				
15	25QAM	1	37	18.17	18.15	18.07						
15	25QAM	1	74	18.13	18.16	18.17						
15	25QAM	36	0	18.20	18.26	18.18	19.5	5				
15	25QAM	36	20	17.98	18.10	18.02						
15	25QAM	36	36	17.98	18.13	18.07						
15	25QAM	75	0	18.14	18.10	18.00						
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.48	23.49	23.34	24.5	0				
10	QPSK	1	25	23.18	23.29	23.29						
10	QPSK	1	49	23.31	23.32	23.33						
10	QPSK	25	0	22.33	22.35	22.36	23.5	1				
10	QPSK	25	12	22.28	22.42	22.35						
10	QPSK	25	25	22.22	22.29	22.13						
10	QPSK	50	0	22.13	22.20	22.18	23.5	1				
10	HQAM	1	0	22.17	22.33	22.26						
10	HQAM	1	25	22.11	22.16	22.12						
10	HQAM	1	49	22.00	22.11	21.98	22.5	2				
10	HQAM	25	0	21.31	21.45	21.36						
10	HQAM	25	12	21.27	21.40	21.21						
10	HQAM	25	25	21.21	21.41	21.20	22.5	2				
10	HQAM	50	0	21.09	21.24	21.18						
10	HQAM	1	0	21.24	21.37	21.26						
10	HQAM	1	25	21.23	21.28	21.21	21.5	3				
10	HQAM	1	49	21.09	21.17	21.08						
10	HQAM	25	0	20.33	20.37	20.40						
10	HQAM	25	12	20.32	20.33	20.12	19.5	5				
10	HQAM	25	25	20.22	20.33	20.26						
10	HQAM	50	0	20.15	20.25	20.18						
10	25QAM	1	0	18.16	18.30	18.20	19.5	5				
10	25QAM	1	25	18.21	18.16	18.09						
10	25QAM	1	49	18.10	18.15	18.13						
10	25QAM	25	0	18.16	18.19	18.18	19.5	5				
10	25QAM	25	12	18.04	18.12	18.07						
10	25QAM	25	25	18.01	18.16	18.00						
10	25QAM	50	0	17.97	18.19	18.09						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.45	23.46	23.34	24.5	0				
5	QPSK	1	12	23.18	23.31	23.31						
5	QPSK	1	24	23.29	23.30	23.28						
5	QPSK	12	0	22.33	22.45	22.36	23.5	1				
5	QPSK	12	7	22.29	22.45	22.38						
5	QPSK	12	13	22.28	22.29	22.19						
5	QPSK	25	0	22.25	22.32	22.17	23.5	1				
5	HQAM	1	0	22.23	22.30	22.23						
5	HQAM	1	12	22.16	22.26	22.14						
5	HQAM	1	24	22.01	22.10	22.06	22.5	2				
5	HQAM	12	0	21.36	21.45	21.41						
5	HQAM	12	7	21.24	21.33	21.22						
5	HQAM	12	13	21.38	21.38	21.26	22.5	2				
5	HQAM	25	0	21.08	21.30	21.17						
5	HQAM	1	0	21.28	21.28	21.28						
5	HQAM	1	12	21.16	21.24	21.11	21.5	3				
5	HQAM	1	24	21.02	21.21	21.00						
5	HQAM	12	0	20.34	20.37	20.29						
5	HQAM	12	7	20.26	20.24	20.21	19.5	5				
5	HQAM	12	13	20.28	20.40	20.20						
5	HQAM	25	0	20.11	20.26	20.17						
5	25QAM	1	0	18.10	18.32	18.23	19.5	5				
5	25QAM	1	12	18.16	18.18	18.09						
5	25QAM	1	24	18.18	18.23	18.11						
5	25QAM	12	0	18.17	18.27	18.16	19.5	5				
5	25QAM	12	7	18.01	18.18	18.10						
5	25QAM	12	13	17.93	18.11	17.99						
5	25QAM	25	0	17.94	18.14	18.06						

Band 48 Main PA Ant7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.60	23.53	23.51	23.53	24.5	0
20	QPSK	1	49	23.45	23.54	23.42	23.52		
20	QPSK	1	99	23.61	23.55	23.39	23.46		
20	QPSK	50	0	22.55	22.62	22.54	22.53	23.5	1
20	QPSK	50	49	22.40	22.49	22.38	22.47		
20	QPSK	50	99	22.53	22.53	22.48	22.38		
20	16QAM	1	0	22.45	22.45	22.36	22.44	23.5	1
20	16QAM	1	49	22.31	22.42	22.31	22.43		
20	16QAM	1	99	22.28	22.36	22.31	22.28		
20	16QAM	50	0	21.64	21.68	21.45	21.52	22.5	2
20	16QAM	50	49	21.49	21.61	21.39	21.50		
20	16QAM	50	99	21.69	21.64	21.52	21.51		
20	16QAM	100	0	21.26	21.50	21.41	21.41	22.5	2
20	16QAM	100	49	21.50	21.53	21.39	21.48		
20	16QAM	100	99	21.35	21.43	21.39	21.36		
20	16QAM	1	49	21.35	21.43	21.39	21.32	21.5	3
20	16QAM	1	99	20.46	20.64	20.51	20.56		
20	16QAM	50	24	20.51	20.49	20.38	20.32		
20	16QAM	50	49	20.37	20.37	20.26	20.26	21.5	3
20	16QAM	100	0	20.42	20.42	20.31	20.27		
20	16QAM	100	99	18.32	18.47	18.38	18.31		
20	256QAM	1	0	18.38	18.38	18.30	18.29	19.5	5
20	256QAM	1	49	18.33	18.36	18.24	18.36		
20	256QAM	1	99	18.40	18.40	18.27	18.42		
20	256QAM	50	24	18.15	18.25	18.26	18.22	19.5	5
20	256QAM	50	49	18.13	18.13	18.27	18.16		
20	256QAM	50	99	18.13	18.17	18.28	18.15		
Channel									
Frequency (MHz)									
16	QPSK	1	0	56.115	56.028	56.160	56.065	24.5	0
16	QPSK	1	49	55.933	55.937	55.943	55.948		
16	QPSK	1	97	55.939	55.949	55.938	55.942		
16	QPSK	1	74	55.933	55.942	55.939	55.938	23.5	1
16	QPSK	50	0	55.85	55.84	55.84	55.84		
16	QPSK	50	24	55.87	55.84	55.82	55.84		
16	QPSK	50	49	55.88	55.84	55.82	55.84	22.5	2
16	QPSK	75	0	55.87	55.82	55.82	55.82		
16	QPSK	75	49	55.82	55.82	55.82	55.82		
16	16QAM	1	0	55.86	55.86	55.87	55.86	22.5	2
16	16QAM	1	49	55.86	55.86	55.87	55.86		
16	16QAM	1	74	55.89	55.82	55.87	55.84		
16	16QAM	50	0	55.80	55.83	55.83	55.80	21.5	3
16	16QAM	50	24	55.83	55.83	55.82	55.83		
16	16QAM	50	49	55.83	55.83	55.82	55.83		
16	16QAM	75	0	55.84	55.84	55.82	55.84	19.5	5
16	16QAM	75	49	55.84	55.84	55.82	55.84		
16	16QAM	75	97	55.84	55.84	55.82	55.84		
16	256QAM	1	0	55.84	55.84	55.82	55.84	19.5	5
16	256QAM	1	49	55.84	55.84	55.82	55.84		
16	256QAM	1	74	55.89	55.83	55.83	55.86		
16	256QAM	50	24	55.83	55.83	55.82	55.83	19.5	5
16	256QAM	50	49	55.83	55.83	55.82	55.83		
16	256QAM	50	97	55.83	55.83	55.82	55.83		
16	256QAM	75	0	55.87	55.83	55.82	55.84	19.5	5
16	256QAM	75	49	55.87	55.83	55.82	55.84		
16	256QAM	75	97	55.87	55.83	55.82	55.84		
Channel									
Frequency (MHz)									
10	QPSK	1	0	56.090	56.016	56.160	56.060	24.5	0
10	QPSK	1	25	55.918	55.973	55.940	55.910		
10	QPSK	1	25	55.941	55.941	55.931	55.940		
10	QPSK	1	25	55.941	55.941	55.931	55.940	23.5	1
10	QPSK	25	0	55.88	55.87	55.87	55.87		
10	QPSK	25	12	55.840	55.840	55.85	55.828		
10	QPSK	25	12	55.840	55.840	55.85	55.828	23.5	1
10	QPSK	25	25	55.88	55.87	55.87	55.87		
10	QPSK	50	0	55.820	55.843	55.831	55.822		
10	16QAM	1	0	55.83	55.86	55.87	55.83	23.5	1
10	16QAM	1	25	55.83	55.86	55.87	55.83		
10	16QAM	1	25	55.83	55.86	55.87	55.83		
10	16QAM	1	49	55.81	55.84	55.84	55.81	22.5	2
10	16QAM	1	25	55.81	55.84	55.84	55.81		
10	16QAM	1	25	55.81	55.84	55.84	55.81		
10	16QAM	25	0	55.84	55.86	55.86	55.84	21.5	3
10	16QAM	25	12	55.84	55.86	55.86	55.84		
10	16QAM	25	12	55.84	55.86	55.86	55.84		
10	16QAM	50	0	55.827	55.838	55.831	55.829	19.5	5
10	16QAM	50	25	55.826	55.838	55.831	55.829		
10	16QAM	50	25	55.826	55.838	55.831	55.829		
10	256QAM	1	0	55.825	55.825	55.820	55.815	19.5	5
10	256QAM	1	49	55.826	55.830	55.813	55.831		
10	256QAM	1	99	55.826	55.830	55.813	55.831		
10	256QAM	25	12	55.81	55.81	55.81	55.81	19.5	5
10	256QAM	25	12	55.81	55.81	55.81	55.81		
10	256QAM	25	12	55.81	55.81	55.81	55.81		
10	256QAM	25	25	55.813	55.824	55.822	55.816	19.5	5
10	256QAM	25	25	55.813	55.824	55.822	55.816		
10	256QAM	25	25	55.813	55.824	55.822	55.816		
Channel									
Frequency (MHz)									
5	QPSK	1	0	56.066	56.010	56.170	56.076	24.5	0
5	QPSK	1	12	55.911	55.966	55.940	55.946		
5	QPSK	1	12	55.911	55.938	55.932	55.947		
5	QPSK	1	12	55.938	55.942	55.932	55.943	23.5	1
5	QPSK	12	0	55.87	55.858	55.830	55.847		
5	QPSK	12	7	55.82	55.843	55.840	55.847		
5	QPSK	1	12	55.938	55.942	55.932	55.947	23.5	1
5	QPSK	1	25	55.82	55.840	55.830	55.839		
5	QPSK	1	25	55.82	55.840	55.830	55.839		
5	QPSK	1	24	55.820	55.820	55.818	55.814	22.5	2
5	QPSK	1	24	55.820	55.820	55.818	55.814		
5	QPSK	1	24	55.820	55.820	55.818	55.814		
5	16QAM	1	0	55.817	55.817	55.816	55.816	22.5	2
5	16QAM	1	12	55.817	55.817	55.816	55.816		
5	16QAM	1	12	55.817	55.817	55.816	55.816		
5	16QAM	1	12	55.817	55.817	55.816	55.816	21.5	3
5	16QAM	1	12	55.817	55.817	55.816	55.816		
5	16QAM	1	12	55.817	55.817	55.816	55.816		
5	16QAM	12	0	55.837	55.837	55.840	55.836	19.5	5
5	16QAM	12	0	55.837	55.837	55.840	55.836		
5	16QAM	12	0	55.837	55.837	55.840	55.836		
5	256QAM	1	0	55.820	55.833	55.825	55.823	19.5	5
5	256QAM	1	12	55.820	55.833	55.825	55.823		
5	256QAM	1	12	55.820	55.833	55.825	55.823		
5	256QAM	1	24	55.822	55.828	55.813	55.821	19.5	5
5	256QAM	1	24	55.822	55.828	55.813	55.821		
5	256QAM	1	24	55.822	55.828	55.813	55.821		
5	256QAM	12	12	55.816	55.816	55.816	55.816	19.5	5
5	256QAM	12	12	55.816	55.816	55.816	55.816		
5	256QAM	12	12	55.816	55.816	55.816	55.816		

DSI 0 Power for WWAN Main PA

GSM850 Ant0 Default								
GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)		
TX Channel	128	189	251	128		189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.93	33.09	33.05	34.00	23.93	24.09	24.05	
GPRS 1 Tx slot	32.97	33.13	33.07	34.00	23.97	24.13	24.07	
GPRS 2 Tx slots	30.09	30.12	30.04	31.00	24.09	24.12	24.04	
GPRS 3 Tx slots	28.23	28.34	28.19	29.20	23.97	24.08	23.93	
GPRS 4 Tx slots	26.91	26.95	26.88	28.00	23.91	23.95	23.88	
EDGE 1 Tx slot	27.01	27.13	27.08	28.00	18.01	18.13	18.08	
EDGE 2 Tx slots	24.17	24.25	24.10	25.00	18.17	18.25	18.10	
EDGE 3 Tx slots	22.31	22.41	22.28	23.20	18.05	18.15	18.02	
EDGE 4 Tx slots	21.12	21.17	21.04	22.00	18.12	18.17	18.04	

WCDMA V Ant0 Default				
Band	WCDMA V			Tune-up Limit (dBm)
TX Channel	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	826.4	836.4	846.6	
3GPP Rel 99 AMR 12.2kbps	23.98	24.11	24.08	25.00
3GPP Rel 99 RMC 12.2kbps	24.04	24.16	24.13	25.00
3GPP Rel 6 HSDPA Subtest-1	23.15	23.15	23.11	24.00
3GPP Rel 6 HSDPA Subtest-2	23.09	23.15	23.07	24.00
3GPP Rel 6 HSDPA Subtest-3	22.54	22.69	22.61	23.50
3GPP Rel 6 HSDPA Subtest-4	22.56	22.63	22.57	23.50
3GPP Rel 8 DC-HSDPA Subtest-1	23.03	23.14	23.10	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	23.04	23.14	23.06	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	22.45	22.60	22.53	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	22.43	22.56	22.50	23.50
3GPP Rel 6 HSUPA Subtest-1	22.98	23.03	23.05	24.00
3GPP Rel 6 HSUPA Subtest-2	21.08	21.21	21.06	22.00
3GPP Rel 6 HSUPA Subtest-3	22.09	22.26	22.21	23.00
3GPP Rel 6 HSUPA Subtest-4	21.06	21.11	21.03	22.00
3GPP Rel 6 HSUPA Subtest-5	23.02	23.11	23.05	24.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	20.57	20.76	20.64	21.50

Band 5 Main PA Ant0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Turn-up Int. (dB)	APPR (dB)			
Channel											
Frequency (MHz)				829	836.5	844					
10	QPSK	1	0	24.45	24.56	24.55	25.5	0			
10	QPSK	1	25	24.40	24.48	24.43					
10	QPSK	1	49	24.35	24.52	24.34					
10	QPSK	25	0	23.48	23.55	23.54	24.5	1			
10	QPSK	25	12	23.43	23.47	23.50					
10	QPSK	25	25	23.34	23.50	23.49					
10	16QAM	1	0	23.79	23.84	23.79	24.5	1			
10	16QAM	1	25	23.72	23.71	23.68					
10	16QAM	1	49	23.68	23.73	23.69					
10	16QAM	25	0	22.39	22.52	22.41	23.5	2			
10	16QAM	25	12	22.37	22.48	22.39					
10	16QAM	25	25	22.36	22.44	22.34					
10	16QAM	50	0	22.30	22.48	22.31	22.5	3			
10	84QAM	1	0	22.59	22.68	22.58					
10	84QAM	1	25	22.49	22.59	22.54					
10	84QAM	1	49	22.51	22.57	22.44	23.5	2			
10	84QAM	25	0	21.38	21.46	21.39					
10	84QAM	25	12	21.32	21.48	21.38					
10	84QAM	25	25	21.28	21.37	21.36	22.5	3			
10	84QAM	50	0	21.23	21.51	21.28					
10	256QAM	1	0	19.41	19.56	19.45					
10	256QAM	1	25	19.38	19.95	19.43	20.5	5			
10	256QAM	1	49	19.38	19.56	19.44					
10	256QAM	25	0	19.33	19.45	19.37					
10	256QAM	25	12	19.24	19.49	19.24					
10	256QAM	25	25	19.34	19.40	19.34					
10	256QAM	50	0	19.43	19.49	19.41	Turn-up Int. (dB)				
Channel											
Frequency (MHz)				828.5	836.5	846.5	Turn-up Int. (dB)	APPR (dB)			
5	QPSK	1	0	24.32	24.32	24.41	25.5	0			
5	QPSK	1	12	24.31	24.43	24.40					
5	QPSK	1	24	24.29	24.40	24.22					
5	QPSK	12	0	23.36	23.53	23.45	24.5	1			
5	QPSK	12	7	23.39	23.36	23.38					
5	QPSK	12	13	23.20	23.37	23.28					
5	QPSK	25	0	23.36	23.49	23.38	24.5	1			
5	16QAM	1	0	23.76	23.79	23.72					
5	16QAM	1	12	23.69	23.60	23.54					
5	16QAM	1	24	23.58	23.51	23.48	23.5	2			
5	16QAM	12	0	22.29	22.44	22.32					
5	16QAM	12	7	22.27	22.39	22.27					
5	16QAM	12	13	22.28	22.31	22.24	22.5	3			
5	16QAM	25	0	22.27	22.38	22.20					
5	84QAM	1	0	22.48	22.81	22.53					
5	84QAM	1	12	22.46	22.81	22.42	22.5	2			
5	84QAM	1	24	22.44	22.82	22.35					
5	84QAM	12	0	21.33	21.34	21.53					
5	84QAM	12	7	21.36	21.41	21.28	22.5	3			
5	84QAM	12	13	21.19	21.25	21.25					
5	84QAM	25	0	21.14	21.48	21.14					
5	256QAM	1	0	19.35	19.51	19.35	20.5	5			
5	256QAM	1	12	19.34	19.57	19.31					
5	256QAM	1	24	19.33	19.51	19.36					
5	256QAM	12	0	19.28	19.35	19.27					
5	256QAM	12	7	19.20	19.34	19.19					
5	256QAM	12	13	19.31	19.29	19.27					
5	256QAM	25	0	19.33	19.43	19.29	Turn-up Int. (dB)				
Channel											
Frequency (MHz)				824.7	838.5	848.5	Turn-up Int. (dB)	APPR (dB)			
3	QPSK	1	0	24.34	24.42	24.43	25.5	0			
3	QPSK	1	8	24.35	24.43	24.29					
3	QPSK	1	14	24.22	24.45	24.29					
3	QPSK	8	0	23.37	23.51	23.41	24.5	1			
3	QPSK	8	4	23.35	23.38	23.41					
3	QPSK	8	7	23.26	23.47	23.26					
3	16QAM	1	0	23.36	23.44	23.35	24.5	1			
3	16QAM	1	8	23.70	23.71	23.68					
3	16QAM	1	14	23.42	23.58	23.68					
3	16QAM	8	0	22.26	22.42	22.37	23.5	2			
3	16QAM	8	4	22.32	22.38	22.24					
3	16QAM	8	7	22.32	22.38	22.34					
3	16QAM	15	0	22.17	22.34	22.17	22.5	3			
3	84QAM	1	0	22.68	22.83	22.63					
3	84QAM	1	8	22.44	22.54	22.40					
3	84QAM	1	14	22.44	22.56	22.40	22.5	3			
3	84QAM	8	0	21.25	21.41	21.36					
3	84QAM	8	4	21.34	21.35	21.15					
3	84QAM	8	7	21.17	21.27	21.27	20.5	5			
3	84QAM	15	0	21.08	21.38	21.17					
3	256QAM	1	0	19.35	19.47	19.35					
3	256QAM	1	8	19.27	19.54	19.23					
3	256QAM	1	14	19.34	19.43	19.33					
3	256QAM	8	0	19.27	19.32	19.25					
3	256QAM	8	4	19.12	19.39	19.18	20.5	5			
3	256QAM	8	7	19.30	19.36	19.30					
3	256QAM	15	0	19.35	19.40	19.35					
Channel											
Frequency (MHz)				804.7	808.5	808.5	Turn-up Int. (dB)	APPR (dB)			
1.4	QPSK	1	0	24.34	24.42	24.43	25.5	0			
1.4	QPSK	1	3	24.30	24.41	24.37					
1.4	QPSK	1	5	24.31	24.48	24.26					
1.4	QPSK	3	0	24.36	24.42	24.37	24.5	1			
1.4	QPSK	3	1	24.36	24.41	24.36					
1.4	QPSK	3	3	24.20	24.45	24.23					
1.4	QPSK	8	0	23.42	23.50	23.41	24.5	1			
1.4	16QAM	1	0	23.39	23.39	23.35					
1.4	16QAM	1	3	23.21	23.40	23.35					
1.4	16QAM	1	5	23.36	23.39	23.32	23.5	2			
1.4	16QAM	3	0	23.72	23.76	23.70					
1.4	16QAM	3	1	23.66	23.67	23.64					
1.4	16QAM	3	3	23.62	23.67	23.63	23.5	2			
1.4	16QAM	8	0	22.24	22.46	22.38					
1.4	84QAM	1	0	22.28	22.36	22.28					
1.4	84QAM	1	3	22.29	22.36	22.28	23.5	2			
1.4	84QAM	1	5	22.25	22.38	22.23					
1.4	84QAM	3	0	22.41	22.61	22.45					
1.4	84QAM	3	1	22.39	22.60	22.34	22.5	3			
1.4	84QAM	3	3	22.37	22.61	22.37					
1.4	84QAM	8	0	21.26	21.34	21.29					
1.4	256QAM	1	0	19.32	19.48	19.47	20.5	5			
1.4	256QAM	1	3	19.28	19.40	19.37					
1.4	256QAM	1	5	19.34	19.46	19.39					
1.4	256QAM	3	0	19.23	19.34	19.27	20.5	5			
1.4	256QAM	3	1	19.28	19.36	19.29					
1.4	256QAM	3	3	19.17	19.35	19.11					
1.4	256QAM	8	0	19.32	19.39	19.32	20.5	5			
1.4	256QAM	8	1	19.31	19.42	19.30					
1.4	256QAM	8	3	19.31	19.42	19.30					

Band 26 Main PA Ant0										
BN [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	APPR (dB)		
Channel										
Frequency (MHz)				819.5	831.5	844				
15	QPSK	1	0	24.52	24.58	24.49		25.5	0	
15	QPSK	1	31	24.45	24.51	24.45				
15	QPSK	1	74	24.41	24.53	24.47				
15	QPSK	36	0	23.48	23.63	23.52		24.5	1	
15	QPSK	36	20	23.43	23.55	23.51				
15	QPSK	36	39	23.52	23.60	23.51				
15	QPSK	75	0	23.54	23.57	23.47		24.5	1	
15	16QAM	1	0	23.48	23.56	23.45				
15	16QAM	1	31	23.35	23.51	23.37				
15	16QAM	1	74	23.42	23.54	23.47		23.5	2	
15	16QAM	36	0	22.42	22.47	22.42				
15	16QAM	36	20	22.45	22.50	22.52				
15	16QAM	36	39	22.53	22.57	22.43		22.5	3	
15	16QAM	75	0	22.50	22.54	22.49				
15	64QAM	1	0	22.59	22.70	22.58				
15	64QAM	1	31	22.53	22.68	22.54		20.5	5	
15	64QAM	1	74	22.55	22.56	22.50				
15	64QAM	36	0	21.25	21.37	21.34				
15	64QAM	36	20	21.41	21.55	21.43		22.5	3	
15	64QAM	36	39	21.45	21.52	21.44				
15	64QAM	75	0	21.41	21.54	21.43				
15	256QAM	1	0	19.58	19.69	19.59		20.5	5	
15	256QAM	1	31	19.42	19.57	19.49				
15	256QAM	1	74	19.60	19.74	19.69				
15	256QAM	36	0	19.35	19.42	19.38		20.5	5	
15	256QAM	36	20	19.48	19.52	19.43				
15	256QAM	36	39	19.46	19.55	19.50				
15	256QAM	75	0	19.38	19.51	19.47				
Channel										
Frequency (MHz)				819	831.5	844	Turn-up limit (dB)	APPR (dB)		
10	QPSK	1	0	24.42	24.44	24.38		25.5	0	
10	QPSK	1	26	24.39	24.48	24.31				
10	QPSK	1	49	24.28	24.42	24.42				
10	QPSK	25	0	23.43	23.52	23.48		24.5	1	
10	QPSK	25	12	23.29	23.45	23.40				
10	QPSK	25	25	23.48	23.48	23.47				
10	QPSK	50	0	23.42	23.49	23.43		24.5	1	
10	16QAM	1	0	23.41	23.48	23.39				
10	16QAM	1	25	23.33	23.47	23.31				
10	16QAM	1	49	23.35	23.51	23.34		23.5	2	
10	16QAM	25	0	22.36	22.35	22.38				
10	16QAM	25	12	22.35	22.56	22.42				
10	16QAM	25	25	22.40	22.44	22.38		22.5	3	
10	16QAM	50	0	22.38	22.48	22.35				
10	64QAM	1	0	22.51	22.58	22.52				
10	64QAM	1	26	22.50	22.55	22.45		22.5	3	
10	64QAM	1	49	22.53	22.51	22.51				
10	64QAM	25	0	21.18	21.31	21.25				
10	64QAM	25	12	21.32	21.52	21.37		20.5	5	
10	64QAM	25	25	21.32	21.35	21.31				
10	64QAM	50	0	21.34	21.50	21.33				
10	256QAM	1	0	19.45	19.53	19.39		20.5	5	
10	256QAM	1	26	19.32	19.42	19.42				
10	256QAM	1	49	19.54	19.65	19.58				
10	256QAM	25	0	19.36	19.26	19.33		20.5	5	
10	256QAM	25	12	19.43	19.41	19.29				
10	256QAM	25	25	19.39	19.48	19.36				
10	256QAM	50	0	19.28	19.40	19.39				
Channel										
Frequency (MHz)				816.5	831.5	846.5	Turn-up limit (dB)	APPR (dB)		
5	QPSK	1	0	24.44	24.46	24.38		25.5	0	
5	QPSK	1	12	24.32	24.38	24.25				
5	QPSK	1	24	24.34	24.45	24.39				
5	QPSK	12	0	23.45	23.57	23.48		24.5	1	
5	QPSK	12	7	23.29	23.45	23.45				
5	QPSK	12	13	23.48	23.53	23.38				
5	QPSK	36	0	23.42	23.47	23.39		24.5	1	
5	16QAM	1	0	23.41	23.44	23.33				
5	16QAM	1	12	23.21	23.44	23.22				
5	16QAM	1	24	23.37	23.45	23.34		23.5	2	
5	16QAM	12	0	22.34	22.44	22.34				
5	16QAM	12	7	22.35	22.55	22.42				
5	16QAM	12	13	22.47	22.45	22.39		22.5	3	
5	16QAM	25	0	22.38	22.35	22.45				
5	64QAM	1	0	22.54	22.59	22.53				
5	64QAM	1	12	22.50	22.54	22.46		22.5	3	
5	64QAM	1	24	22.52	22.59	22.79				
5	64QAM	12	0	21.20	21.30	21.21				
5	64QAM	12	7	21.31	21.43	21.37		20.5	5	
5	64QAM	12	13	21.38	21.42	21.37				
5	64QAM	25	0	21.27	21.45	21.39				
5	256QAM	1	0	19.45	19.51	19.45		20.5	5	
5	256QAM	1	12	19.29	19.53	19.36				
5	256QAM	1	24	19.54	19.66	19.55				
5	256QAM	12	0	19.24	19.31	19.25		20.5	5	
5	256QAM	12	7	19.36	19.41	19.37				
5	256QAM	12	13	19.35	19.42	19.43				
5	256QAM	25	0	19.32	19.35	19.38				
Channel										
Frequency (MHz)				815.5	831.5	847.5	Turn-up limit (dB)	APPR (dB)		
3	QPSK	1	0	24.43	24.52	24.37		25.5	0	
3	QPSK	1	8	24.37	24.42	24.32				
3	QPSK	1	14	24.34	24.45	24.43				
3	QPSK	8	0	23.34	23.51	23.42		24.5	1	
3	QPSK	8	4	23.29	23.45	23.36				
3	QPSK	8	7	23.37	23.48	23.43				
3	QPSK	15	0	23.46	23.52	23.42		24.5	1	
3	16QAM	1	0	23.44	23.52	23.37				
3	16QAM	1	8	23.27	23.45	23.31				
3	16QAM	1	14	23.30	23.45	23.36		23.5	2	
3	16QAM	8	0	22.34	22.42	22.32				
3	16QAM	8	4	22.42	22.54	22.42				
3	16QAM	8	7	22.43	22.53	22.38		22.5	3	
3	64QAM	1	0	22.37	22.47	22.46				
3	64QAM	1	8	22.48	22.57	22.44				
3	64QAM	1	8	22.48	22.61	22.50		22.5	3	
3	64QAM	1	14	22.79	22.85	22.76				
3	64QAM	8	0	21.13	21.28	21.21				
3	64QAM	8	4	21.37	21.45	21.38		20.5	5	
3	64QAM	8	7	21.36	21.38	21.34				
3	64QAM	15	0	21.28	21.45	21.36				
3	256QAM	1	0	19.43	19.56	19.55		20.5	5	
3	256QAM	1	8	19.30	19.45	19.39				
3	256QAM	1	14	19.46	19.71	19.61				
3	256QAM	8	0	19.25	19.36	19.25		20.5	5	
3	256QAM	8	4	19.38	19.39	19.29				
3	256QAM	8	7	19.34	19.52	19.40				
3	256QAM	15	0	19.34	19.45	19.43				
Channel										
Frequency (MHz)				814.5	831.5	848.5	Turn-up limit (dB)	APPR (dB)		
1.4	QPSK	1	0	24.44	24.54	24.45		25.5	0	
1.4	QPSK	1	3	24.34	24.38	24.36				
1.4	QPSK	1	5	24.35	24.50	24.41				
1.4	QPSK	3	0	24.41	24.45	24.44		24.5	1	
1.4	QPSK	3	1	24.37	24.45	24.48				
1.4	QPSK	3	3	24.34	24.39	24.34				
1.4	QPSK	6	0	23.34	23.59	23.46		24.5	1	
1.4	16QAM	1	0	23.33	23.43	23.35				
1.4	16QAM	1	3	23.42	23.45	23.36				
1.4	16QAM	1	5	23.47	23.54	23.34		23.5	2	
1.4	16QAM	3	0	23.38	23.42	23.40				
1.4	16QAM	3	1	23.24	23.43	23.32				
1.4	16QAM	3	3	23.30	23.48	23.40		22.5		

GSM850 Ant1 DS0								
GSM850	Burst-Average Power (dBm)			Tune-up Limit	Frame-Average Power (dBm)			Tune-up Limit
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM 1 Tx slot	31.11	31.21	31.17	32.50	22.11	22.21	22.17	23.50
GPRS 1 Tx slot	31.15	31.23	31.20	32.50	22.15	22.23	22.20	23.50
GPRS 2 Tx slots	27.89	28.11	28.03	29.50	21.89	22.11	22.03	23.50
GPRS 3 Tx slots	26.22	26.33	26.35	27.50	21.96	22.07	22.09	23.24
GPRS 4 Tx slots	24.80	24.98	24.95	26.50	21.80	21.98	21.95	23.50
EDGE 1 Tx slot	25.05	25.12	25.00	26.50	16.05	16.12	16.00	17.50
EDGE 2 Tx slots	22.22	22.23	22.18	23.50	16.22	16.23	16.18	17.50
EDGE 3 Tx slots	20.44	20.49	20.45	21.70	16.18	16.23	16.19	17.44
EDGE 4 Tx slots	19.28	19.27	19.26	20.50	16.28	16.27	16.26	17.50

		GSM1900 Ant1 DS0							
		Burst-Average Power (dBm)			Frame-Average Power (dBm)				
GSM1800	TX Channel	512	661	810	Tuneup Limit (dBm)	512	661	810	Tuneup Limit (dBm)
	Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
	GSM 1 Tx slot	22.38	22.45	22.38	24.00	13.38	13.45	13.38	15.00
	GPRS 1 Tx slot	22.39	22.49	22.41	24.00	13.39	13.49	13.41	15.00
	GPRS 2 Tx slots	19.53	19.61	19.54	21.00	13.53	13.61	13.54	15.00
	GPRS 3 Tx slots	17.87	17.93	17.92	19.20	13.61	13.67	13.66	14.94
	GPRS 4 Tx slots	16.54	16.59	16.34	18.00	13.46	13.53	13.34	15.00
	EDGE 1 Tx slot	18.39	18.56	18.41	20.00	9.39	9.56	9.41	11.00
	EDGE 2 Tx slots	15.82	15.90	15.80	17.00	9.82	9.90	9.80	11.00
	EDGE 3 Tx slots	13.67	13.70	13.58	15.20	9.41	9.44	9.32	10.94
	EDGE 4 Tx slots	12.67	12.88	12.80	14.00	9.67	9.88	9.80	11.00

		WCDMA II Ant1 DS0			WCDMA IV Ant1 DS0			WCDMA V Ant1 DS0					
Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	TX Channel	9262	9400		9538	1312	1413		1513	4132	4182		4233
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2kbps	15.63	15.67	15.58	17.50	17.03	17.20	17.03	19.00	21.83	21.79	21.77	23.50
3GPP Rel 99	RMC 12.2kbps	15.57	15.68	15.66	17.50	17.12	17.26	17.24	19.00	21.73	21.93	21.90	23.50
3GPP Rel 6	HSDPA Subtest-1	14.59	14.81	14.65	16.50	16.15	16.28	16.29	18.00	20.94	20.77	20.73	22.50
3GPP Rel 6	HSDPA Subtest-2	14.52	14.78	14.73	16.50	16.13	16.20	16.06	18.00	20.65	20.84	20.72	22.50
3GPP Rel 6	HSDPA Subtest-3	14.24	14.17	14.14	16.00	15.60	15.67	15.74	17.50	20.21	20.39	20.35	22.00
3GPP Rel 6	HSDPA Subtest-4	14.20	14.23	14.21	16.00	15.52	15.65	15.62	17.50	20.19	20.38	20.37	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	14.65	14.66	14.71	16.50	16.10	16.25	16.01	18.00	20.89	20.88	20.80	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	14.72	14.76	14.67	16.50	16.05	16.02	16.03	18.00	20.77	20.75	20.77	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	14.03	14.09	14.21	16.00	15.63	15.67	16.01	17.50	20.19	20.26	20.19	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	14.19	14.32	14.14	16.00	15.56	15.53	15.53	17.50	20.07	20.30	20.30	22.00
3GPP Rel 6	HSUPA Subtest-1	14.73	14.54	14.61	16.50	16.08	16.10	16.03	18.00	20.59	20.66	20.66	22.50
3GPP Rel 6	HSUPA Subtest-2	12.68	12.59	12.69	14.50	14.07	14.10	14.14	16.00	18.75	18.96	18.97	20.50
3GPP Rel 6	HSUPA Subtest-3	13.69	13.85	13.83	15.50	15.03	15.23	15.18	17.00	19.83	20.02	19.82	21.50
3GPP Rel 6	HSUPA Subtest-4	12.57	12.66	12.71	14.50	13.95	14.00	14.04	16.00	18.59	18.82	18.86	20.50
3GPP Rel 6	HSUPA Subtest-5	14.53	14.73	14.69	16.50	16.07	16.02	16.15	18.00	20.56	20.74	20.68	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	12.33	12.38	12.18	14.00	13.57	13.61	13.63	15.50	18.37	18.61	18.46	20.00

Band 4 Main PA Ant1 DS10																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MFR (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	14.46	14.52	14.57			16	0						
20	QPSK	1	49	14.28	14.42	14.43										
20	QPSK	1	99	14.14	14.28	14.36			16	0						
20	QPSK	50	0	14.28	14.35	14.42										
20	QPSK	50	24	14.20	14.27	14.31			16	0						
20	QPSK	50	50	14.12	14.39	14.28										
20	QPSK	100	0	14.28	14.35	14.42			16	0						
20	16QAM	50	0	14.42	14.49	14.57										
20	16QAM	1	49	14.12	14.30	14.38			16	0						
20	16QAM	1	99	14.29	14.26	14.40										
20	16QAM	50	0	14.47	14.50	14.53			16	0						
20	16QAM	50	24	14.30	14.17	14.13										
20	16QAM	50	50	14.10	14.41	14.21			16	0						
20	84QAM	1	0	14.30	14.43	14.11										
20	84QAM	1	49	14.28	14.23	14.22			16	0						
20	84QAM	50	0	14.28	14.22	14.14										
20	84QAM	50	24	14.18	14.23	14.29			16	0						
20	84QAM	50	50	14.38	14.19	14.21										
20	84QAM	100	0	14.09	14.23	14.08			16	0						
20	256QAM	1	0	14.17	14.21	14.09										
20	256QAM	1	49	14.21	14.31	14.13			16	0						
20	256QAM	1	99	14.26	14.14	14.25										
20	256QAM	50	0	14.29	14.35	14.42			16	0						
20	256QAM	50	24	14.23	14.24	14.19										
20	256QAM	50	50	14.30	14.40	14.14			16	0						
20	256QAM	100	0	14.10	14.23	14.27										
Channel																
Frequency (MHz)																
16	QPSK	1	0	17.17	17.25	17.47			16	0						
16	QPSK	1	0	14.53	14.47	14.44										
16	QPSK	1	37	14.43	14.48	14.35			16	0						
16	QPSK	1	74	14.23	14.37	14.27										
16	QPSK	36	0	14.09	14.48	14.12			16	0						
16	QPSK	36	25	14.10	14.20	14.24										
16	QPSK	36	39	14.12	14.11	14.16			16	0						
16	QPSK	75	0	14.11	14.28	14.11										
16	16QAM	1	0	14.28	14.30	14.23			16	0						
16	16QAM	1	37	14.22	14.45	14.21										
16	16QAM	1	74	14.17	14.21	14.10			16	0						
16	16QAM	36	0	14.49	14.19	14.19										
16	16QAM	36	25	14.21	14.22	14.10			16	0						
16	16QAM	36	39	14.24	14.24	14.23										
16	16QAM	75	0	14.33	14.50	14.20			16	0						
16	84QAM	1	0	14.22	14.34	14.37										
16	84QAM	1	25	14.29	14.26	14.14			16	0						
16	84QAM	1	49	14.20	14.19	14.08										
16	84QAM	25	0	14.31	14.27	14.30			16	0						
16	84QAM	25	12	14.28	14.08	14.19										
16	84QAM	36	0	14.03	14.44	14.10			16	0						
16	84QAM	50	0	14.19	14.00	14.00										
16	84QAM	1	0	14.47	14.50	14.03			16	0						
16	84QAM	1	24	14.26	14.57	14.00										
16	84QAM	1	49	14.21	14.11	14.23			16	0						
16	84QAM	25	0	14.22	14.21	14.21										
16	84QAM	25	12	14.05	14.40	14.20			16	0						
16	84QAM	25	25	14.23	14.17	14.28										
16	84QAM	50	0	14.23	14.05	14.20			16	0						
16	256QAM	1	0	14.18	14.15	14.03										
16	256QAM	1	25	14.10	14.21	14.06			16	0						
16	256QAM	1	49	14.08	14.17	14.08										
16	256QAM	25	0	14.14	14.12	14.04			16	0						
16	256QAM	25	12	14.22	14.14	14.28										
16	256QAM	25	25	14.15	14.25	14.23			16	0						
16	256QAM	50	0	14.12	14.09	14.06										
Channel																
Frequency (MHz)																
5	QPSK	1	0	14.40	14.54	14.37			16	0						
5	QPSK	1	12	14.33	14.33	14.10										
5	QPSK	1	24	14.27	14.40	14.20			16	0						
5	QPSK	12	7	14.10	14.26	14.09										
5	QPSK	24	0	14.11	14.28	14.18			16	0						
5	QPSK	24	12	14.21	14.40	14.12										
5	16QAM	1	0	14.37	14.32	14.20			16	0						
5	16QAM	1	12	14.30	14.33	14.19										
5	16QAM	1	24	14.15	14.28	14.21			16	0						
5	16QAM	12	0	14.41	14.31	14.19										
5	16QAM	12	12	14.02	14.43	14.23			16	0						
5	16QAM	12	18	14.10	14.10	14.08										
5	16QAM	25	0	14.11	14.22	14.07			16	0						
5	16QAM	25	12	14.06	14.20	14.10										
5	84QAM	1	12	14.46	14.28	14.25			16	0						
5	84QAM	1	24	14.21	14.32	14.28										
5	84QAM	12	0	14.11	14.22	14.08			16	0						
5	84QAM	12	12	14.16	14.05	14.09										
5	256QAM	1	0	14.05	14.18	14.22			16	0						
5	256QAM	1	12	14.16	14.22	14.10										
5	256QAM	1	24	14.09	14.20	14.14			16	0						
5	256QAM	12	0	14.25	14.11	14.22										
5	256QAM	12	12	14.08	14.08	14.14			16	0						
5	256QAM	12	18	14.15	14.14	14.06										
5	256QAM	25	0	14.11	14.24	14.11			16	0						
5	256QAM	25	12	14.05	14.23	14.23										
Channel																
Frequency (MHz)																
3	QPSK	1	0	14.56	14.49	14.40			16	0						
3	QPSK	1	8	14.29	14.40	14.37										
3	QPSK	1	16	14.24	14.37	14.16			16	0						
3	QPSK	8	0	14.30	14.28	14.20										
3	QPSK	8	4	14.14	14.26	14.24			16	0						
3	QPSK	8	7	14.15	14.25	14.19										
3	QPSK	16	0	14.05	14.36	14.15			16	0						
3	16QAM	1	0	14.33	14.21	14.28										
3	16QAM	1	8	14.18	14.25	14.21			16	0						
3	16QAM	1	14	14.17	14.19	14.24										
3	16QAM	8	0	14.31	14.42	14.27			16	0						
3	16QAM	8	4	14.09	14.04	14.15										
3	16QAM	8	7	14.07	14.34	14.24			16	0						
3	16QAM	16	0	14.07	14.03	14.09										
3	84QAM	1	0	14.47	14.43	14.09			16	0						
3	84QAM	1	8	14.34	14.32	14.14										
3	84QAM	8	0	14.21	14.36	14.29			16	0						
3	84QAM	8	4	14.09	14.14	14.10										
3	84QAM	8	7	14.05	14.31	14.30			16	0						
3	84QAM	16	0	14.09	14.22	14.11										
3	256QAM	1	0	14.10	14.01	14.09			16	0						
3	256QAM	1	8	14.23	14.15	14.14										
3	256QAM	1	14	14.15	14.29	14.24			16	0						
3	256QAM	8	0	14.27	14.21	14.11										
3	256QAM	8	4	14.23	14.18	14.14			16	0						
3	256QAM	8	7	14.16	14.19	14.23										
3	256QAM	16	0	14.06	14.19	14.22			16	0						
3	256QAM	16	8	14.13	14.22	14.13										
Channel																
Frequency (MHz)																
1.4	QPSK	1	0	14.51	14.48	14.54			16	0						
1.4	QPSK	1	0	14.26	14.56	14.27										
1.4	QPSK	1	0	14.22	14.40	14.35			16	0						
1.4	QPSK	3	0	14.19	14.38	14.14										
1.4	QPSK	3	0	14.32	14.21	14.15			16	0						
1.4	QPSK	1	3	14.12	14.45	14.27										
1.4	16QAM	1	0	14.16	14.31	14.10			16	0						
1.4	16QAM	1	3	14.12	14.39	14.21										
1.4	16QAM	3	0	14.46	14.38	14.24			16	0						
1.4	16QAM	1	3	14.11	14.23	14.10										
1.4	16QAM	3	0	14.28	14.42	14.24			16	0						
1.4	16QAM	1	3	14.26	14.34	14.27										
1.4	84QAM	1	0	14.26	14.14	14.40			16	0						
1.4	84QAM	3	0	14.21	14.31	14.29										
1.4	84QAM	1	3	14.15	14.35	14.13			16	0						
1.4	84QAM	3	0	14.25	14.14	14.19										
1.4	256QAM	1	0	14.10	14.19	14.14			16	0						
1.4	256QAM	1	3	14.09	14.28	14.14										
1.4	256QAM	3	0	14.20	14.23	14.21			16	0						
1.4	256QAM	3	1	14.19	14.24	14.23										
1.4	256QAM	3	3	14.22	14.38	14.13			16	0						
1.4	256QAM	3	7	14.03	14.29	14.13										

Band 13 Main PA Ant1 DS10														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Time-up (sec)	MPE (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	23.47	782		25	0						
10	QPSK	1	25	23.44										
10	QPSK	1	49	23.38										
10	QPSK	25	0	22.60										
10	QPSK	25	12	22.84			24.5	0.5						
10	QPSK	25	25	22.79										
10	QPSK	50	0	22.87										
10	16QAM	1	0	22.85										
10	16QAM	1	25	22.79			24.5	0.5						
10	16QAM	1	49	22.75										
10	16QAM	25	0	21.89										
10	16QAM	25	12	21.81										
10	16QAM	25	25	21.85			23.5	1.5						
10	16QAM	50	0	21.79										
10	64QAM	1	0	22.07										
10	64QAM	1	25	22.01			22.5	1.5						
10	64QAM	1	49	21.97										
10	64QAM	25	0	20.87										
10	64QAM	25	12	20.76			22.5	2.5						
10	64QAM	25	25	20.83										
10	64QAM	50	0	20.75										
10	256QAM	1	0	18.94			20.5	4.5						
10	256QAM	1	25	18.91										
10	256QAM	1	49	18.88										
10	256QAM	25	0	18.88										
10	256QAM	25	12	18.78			20.5	4.5						
10	256QAM	25	25	18.84										
10	256QAM	50	0	18.81										
10	256QAM	50	0	18.81										
Channel														
Frequency (MHz)														
5	QPSK	1	0	23.46	2341	23.38	25	0						
5	QPSK	1	12	23.23	2327	23.37								
5	QPSK	1	24	23.17	2320	23.15								
5	QPSK	12	0	22.87	2278	22.83								
5	QPSK	12	7	22.72	2273	22.73	24.5	0.5						
5	QPSK	12	13	22.73	2272	22.68								
5	QPSK	25	0	22.84	2273	22.78								
5	16QAM	1	0	22.74	2271	22.76								
5	16QAM	1	12	22.65	2271	22.72	24.5	0.5						
5	16QAM	1	24	22.64	2269	22.71								
5	16QAM	12	0	21.78	2184	21.78								
5	16QAM	12	7	21.69	2168	21.74								
5	16QAM	12	13	21.67	2163	21.65	23.5	1.5						
5	16QAM	25	0	21.72	2175	21.84								
5	64QAM	1	0	21.65	2165	21.98								
5	64QAM	1	0	21.69	2169	21.84								
5	64QAM	1	24	21.94	2152	21.83	22.5	2.5						
5	64QAM	12	0	20.74	2074	20.78								
5	64QAM	12	7	20.67	2063	20.65								
5	64QAM	12	13	20.76	2073	20.70								
5	64QAM	25	0	20.68	2064	20.60	20.5	4.5						
5	256QAM	1	0	18.84	1881	18.84								
5	256QAM	1	12	18.77	1887	18.82								
5	256QAM	1	24	18.79	1872	18.78								
5	256QAM	12	0	18.74	1876	18.84	20.5	4.5						
5	256QAM	12	7	18.72	1873	18.84								
5	256QAM	12	13	18.69	1876	18.79								
5	256QAM	25	0	18.71	1875	18.68								

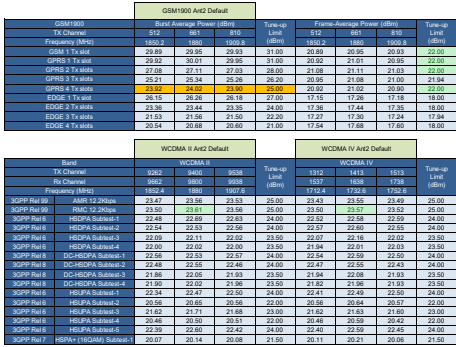
Band 26 Main PA Ant1 DS10														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Time-up (sec)	MPE (dB)						
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.29	821.5	821.5	24	0						
15	QPSK	1	31	22.13	821.5	821.5								
15	QPSK	1	74	22.11	820.3	820.6								
15	QPSK	36	0	22.16	822.1	822.13								
15	QPSK	36	25	22.08	822.1	822.13	24	0						
15	QPSK	36	39	22.03	820.3	820.07								
15	QPSK	75	0	22.14	822.15	822.01								
15	16QAM	1	0	22.27	822.1	822.09								
15	16QAM	1	31	22.03	822.4	822.06	24	0						
15	16QAM	1	74	22.23	822.10	822.11								
15	16QAM	36	0	21.83	821.6	821.58								
15	16QAM	36	39	21.88	821.72	821.89								
15	16QAM	75	0	21.84	821.66	821.58	23.5	0.5						
15	64QAM	1	0	21.82	821.62	821.84								
15	64QAM	1	31	21.78	821.86	821.80								
15	64QAM	1	74	21.73	821.80	821.81								
15	64QAM	36	0	20.84	820.89	820.79	22.5	1.5						
15	64QAM	36	25	20.74	820.89	820.72								
15	64QAM	36	39	20.72	820.85	820.79								
15	64QAM	75	0	20.69	820.77	820.67								
15	256QAM	1	0	18.81	818.79	818.83	20.5	3.5						
15	256QAM	1	31	18.58	818.72	818.84								
15	256QAM	1	74	18.64	818.67	818.80								
15	256QAM	36	0	18.54	818.64	818.62								
15	256QAM	36	25	18.54	818.58	818.51	20.5	3.5						
15	256QAM	36	39	18.60	818.62	818.55								
15	256QAM	75	0	18.60	818.62	818.55								
15	256QAM	75	0	18.60	818.62	818.55								
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.15	821.5	821.5	24	0						
10	QPSK	1	25	22.12	822.08	822.04								
10	QPSK	25	0	22.12	820.3	820.02								
10	QPSK	25	12	22.00	820.0	820.06								
10	QPSK	25	25	22.06	820.04	820.05	24	0						
10	QPSK	50	0	22.07	820.06	820.06								
10	QPSK	50	12	22.00	820.0	820.06								
10	16QAM	1	0	22.10	820.0	820.02								
10	16QAM	1	25	22.06	820.10	820.04	24	0						
10	16QAM	1	49	22.02	820.06	820.02								
10	16QAM	25	0	21.81	819.2	819.08								
10	16QAM	25	12	21.67	818.5	818.53								
10	16QAM	25	25	21.67	818.5	818.53	23.5	0.5						
10	16QAM	50	0	21.68	819.2	819.05								
10	64QAM	1	0	21.72	817.7	817.80								
10	64QAM	1	25	21.68	817.7	817.80								
10	64QAM	1	49	21.63	817.75	817.59	22.5	1.5						
10	64QAM	25	0	20.71	807.8	808.8								
10	64QAM	25	12	20.66	807.8	807.8								
10	64QAM	25	25	20.65	808.8	808.83								
10	64QAM	50	0	20.56	808.8	808.83	20.5	3.5						
10	256QAM	1	0	18.56	808.8	808.8								
10	256QAM	1	25	18.57	807.9	807.71								
10	256QAM	1	49	18.61	807.9	807.7								



Band 38 Main PA Ant1 DSI0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)				
Channel												
Frequency [MHz]												
38760 38900 38150												
20	QPSK	1	0	19.59	19.57	19.50	21	0				
20	QPSK	1	49	19.56	19.59	19.40						
20	QPSK	50	0	19.40	19.60	19.50						
20	QPSK	50	24	19.37	19.54	19.19						
20	QPSK	50	24	19.38	19.54	19.52	21	0				
20	QPSK	100	0	19.48	19.51	19.49						
20	16QAM	1	0	19.59	19.54	19.30						
20	16QAM	1	49	19.50	19.54	19.32						
20	16QAM	1	99	19.50	19.57	19.82	21	0				
20	16QAM	50	0	19.32	19.62	19.46						
20	16QAM	50	24	19.40	19.44	19.46						
20	16QAM	50	50	19.26	19.37	19.23						
20	16QAM	100	0	19.40	19.50	19.41	21	0				
20	64QAM	1	0	19.33	19.31	19.51						
20	64QAM	1	49	19.33	19.31	19.51						
20	64QAM	50	0	19.44	19.49	19.49						
20	64QAM	50	24	19.42	19.41	19.80	21	0				
20	64QAM	50	50	19.40	19.44	19.31						
20	64QAM	100	0	19.43	19.35	19.41						
20	256QAM	1	0	18.51	18.65	18.48						
20	256QAM	1	49	18.58	18.60	18.52	20	1				
20	256QAM	1	99	18.48	18.62	18.67						
20	256QAM	50	0	18.56	18.56	18.66						
20	256QAM	50	24	18.84	18.87	18.73						
20	256QAM	50	50	18.91	18.86	18.89	20	1				
20	256QAM	100	0	18.73	18.73	18.74						
Channel												
Frequency [MHz]												
38760 38900 38175												
15	QPSK	1	0	19.59	19.50	19.17	21	0				
15	QPSK	1	37	19.43	19.51	19.29						
15	QPSK	1	74	19.40	19.57	19.38						
15	QPSK	36	0	19.30	19.45	19.38						
15	QPSK	36	20	19.16	19.49	19.19	21	0				
15	QPSK	36	20	19.17	19.47	19.17						
15	QPSK	75	0	19.24	19.32	19.40						
15	16QAM	1	0	19.54	19.48	19.13						
15	16QAM	1	37	19.56	19.52	19.21	21	0				
15	16QAM	1	74	19.42	19.59	19.48						
15	16QAM	36	0	19.32	19.54	19.45						
15	16QAM	36	20	19.24	19.30	19.15						
15	16QAM	36	39	19.23	19.28	19.05	21	0				
15	16QAM	75	0	19.27	19.34	19.46						
15	64QAM	1	0	19.15	19.37	19.37						
15	64QAM	1	37	19.33	19.15	19.30						
15	64QAM	1	74	19.06	19.17	19.04	21	0				
15	64QAM	36	0	19.20	19.42	19.37						
15	64QAM	36	20	19.34	19.42	19.41						
15	64QAM	36	39	19.40	19.45	19.23						
15	64QAM	75	0	19.20	19.35	19.22	21	0				
15	256QAM	1	0	18.39	18.51	18.42						
15	256QAM	1	37	18.52	18.52	18.40						
15	256QAM	1	74	18.45	18.57	18.51						
15	256QAM	36	0	18.84	18.85	18.88	20	1				
15	256QAM	36	20	18.79	18.83	18.80						
15	256QAM	36	39	18.86	18.86	18.86						
15	256QAM	75	0	18.60	18.68	18.60						
Channel												
Frequency [MHz]												
38760 38900 38200												
10	QPSK	1	0	19.36	19.47	19.40	21	0				
10	QPSK	1	25	19.38	19.49	19.27						
10	QPSK	1	49	19.45	19.62	19.48						
10	QPSK	25	0	19.25	19.40	19.40						
10	QPSK	25	12	19.23	19.52	19.09	21	0				
10	QPSK	25	25	19.21	19.40	19.36						
10	16QAM	1	0	19.38	19.47	19.44						
10	16QAM	1	0	19.55	19.55	19.19						
10	16QAM	1	25	19.52	19.50	19.31	21	0				
10	16QAM	1	49	19.43	19.40	19.45						
10	16QAM	25	0	19.27	19.52	19.49						
10	16QAM	25	12	19.20	19.28	19.11						
10	16QAM	25	25	19.20	19.36	19.11	21	0				
10	16QAM	50	0	19.10	19.49	19.46						
10	64QAM	1	0	19.21	19.43	19.46						
10	64QAM	1	25	19.21	19.17	19.49	21	0				
10	64QAM	1	49	19.07	19.21	19.18						
10	64QAM	25	0	19.37	19.49	19.42						
10	64QAM	25	12	19.41	19.39	19.52						
10	64QAM	25	25	19.31	19.22	19.12	21	0				
10	64QAM	50	0	19.24	19.36	19.31						
10	256QAM	1	0	18.42	18.59	18.47						
10	256QAM	1	25	18.45	18.61	18.47						
10	256QAM	1	49	18.43	18.48	18.51	20	1				
10	256QAM	25	0	18.88	18.86	18.77						
10	256QAM	25	12	18.77	18.83	18.66						
10	256QAM	25	25	18.87	18.86	18.76						
10	256QAM	50	0	18.68	18.71	18.67	20	1				
Channel												
Frequency [MHz]												
38775 38900 38225												
5	QPSK	1	0	19.46	19.50	19.44	21	0				
5	QPSK	1	16	19.37	19.60	19.38						
5	QPSK	1	24	19.27	19.53	19.42						
5	QPSK	12	0	19.34	19.41	19.28						
5	QPSK	12	7	19.36	19.52	19.09	21	0				
5	QPSK	12	19	19.19	19.50	19.42						
5	QPSK	25	0	19.41	19.51	19.35						
5	16QAM	1	0	19.37	19.48	19.25						
5	16QAM	1	12	19.58	19.42	19.17	21	0				
5	16QAM	1	24	19.47	19.46	19.80						
5	16QAM	12	0	19.32	19.42	19.46						
5	16QAM	12	7	19.43	19.43	19.30						
5	16QAM	12	13	19.20	19.20	19.21	21	0				
5	16QAM	25	0	19.25	19.42	19.41						
5	64QAM	1	0	19.21	19.30	19.30						
5	64QAM	1	12	19.30	19.13	19.46						
5	64QAM	1	24	19.24	19.26	19.11	21	0				
5	64QAM	12	0	19.20	19.42	19.32						
5	64QAM	12	7	19.20	19.39	19.40						
5	64QAM	12	13	19.45	19.42	19.15	21	0				
5	64QAM	25	0	19.37	19.35	19.28						
5	64QAM	25	12	19.42	19.39	19.46						
5	256QAM	1	0	18.54	18.68	18.41						
5	256QAM	1	24	18.37	18.58	18.43	20	1				
5	256QAM	12	0	18.83	18.83	18.72						
5	256QAM	12	7	18.80	18.84	18.70						
5	256QAM	12	13	18.80	18.84	18.70						
5	256QAM	25	0	18.85	18.89	18.77	20	1				
5	256QAM	25	12	18.83	18.89	18.81						
5	256QAM	25	25	18.93	18.93	18.83						
5	256QAM	50	0	18.69	18.72	18.69						



Band 42 FCC Part27Q Main PA Ant1 DS10													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dBm)	MPE (dB)					
Channel													
Frequency (MHz)				42190	42190	42190							
20	QPSK	1	0	19.86	20.02	19.91	21.5	0					
20	QPSK	1	49	19.82	19.83	19.89							
20	QPSK	1	99	19.73	19.76	19.73							
20	QPSK	50	0	19.87	19.87	19.82							
20	QPSK	50	24	19.72	19.75	19.71	21.5	0					
20	QPSK	50	50	19.75	19.76	19.79							
20	QPSK	100	0	19.74	19.84	19.82							
20	16QAM	1	0	19.87	19.79	19.51							
20	16QAM	1	49	19.84	19.71	19.52	21.5	0					
20	16QAM	1	99	19.80	19.89	19.51							
20	16QAM	50	0	19.81	19.89	19.66							
20	16QAM	50	24	19.84	19.59	19.54							
20	16QAM	50	50	19.55	19.63	19.59	21.5	0					
20	16QAM	100	0	19.51	19.56	19.54							
20	84QAM	1	0	19.82	19.59	19.51							
20	84QAM	1	49	19.84	19.59	19.59							
20	84QAM	1	99	19.84	19.82	19.52	21.5	0					
20	84QAM	50	0	19.50	19.58	19.64							
20	84QAM	50	24	19.55	19.62	19.59							
20	84QAM	50	50	19.55	19.57	19.60							
20	84QAM	100	0	19.84	19.55	19.64	21.5	0					
20	256QAM	1	0	18.16	18.27	18.22							
20	256QAM	1	49	18.20	18.33	18.21							
20	256QAM	1	99	18.21	18.26	18.17							
20	256QAM	50	0	18.20	18.26	18.14							
20	256QAM	50	24	18.11	18.21	18.20	20	1.5					
20	256QAM	50	50	18.19	18.24	18.12							
20	256QAM	100	0	18.23	18.27	18.13							
Channel													
Frequency (MHz)				42195	42195	42195							
15	QPSK	1	0	19.15	19.16	19.50	21.5	0					
15	QPSK	1	37	19.77	19.87	19.88							
15	QPSK	1	74	19.72	19.82	19.66							
15	QPSK	36	0	19.71	19.82	19.51							
15	QPSK	36	20	19.70	19.85	19.75	21.5	0					
15	QPSK	36	36	19.73	19.86	19.74							
15	QPSK	75	0	19.62	19.89	19.93							
15	16QAM	1	0	19.84	19.77	19.65							
15	16QAM	1	37	19.73	19.73	19.62	21.5	0					
15	16QAM	1	74	19.82	19.81	19.54							
15	16QAM	36	0	19.87	19.75	19.60							
15	16QAM	36	20	19.80	19.86	19.54							
15	16QAM	36	36	19.51	19.89	19.53	21.5	0					
15	16QAM	75	0	19.67	19.58	19.58							
15	84QAM	1	0	19.50	19.68	19.71							
15	84QAM	1	37	19.54	19.54	19.52							
15	84QAM	1	74	19.53	19.58	19.55	21.5	0					
15	84QAM	36	0	19.50	19.50	19.59							
15	84QAM	36	20	19.51	19.52	19.59							
15	84QAM	36	36	19.56	19.54	19.51							
15	84QAM	75	0	19.76	19.54	19.51	20	1.5					
15	256QAM	1	0	18.13	18.24	18.08							
15	256QAM	1	37	18.16	18.24	18.15							
15	256QAM	1	74	18.18	18.20	18.09							
15	256QAM	36	0	18.09	18.26	18.21							
15	256QAM	36	20	18.01	18.09	18.08	20	1.5					
15	256QAM	36	36	18.07	18.16	18.19							
15	256QAM	75	0	18.16	18.16	18.13							
Channel													
Frequency (MHz)				42195	42195	42195							
10	QPSK	1	0	19.75	19.79	19.79	21.5	0					
10	QPSK	1	25	19.79	19.52	19.78							
10	QPSK	1	49	19.73	19.58	19.65							
10	QPSK	25	0	19.70	19.76	19.63							
10	QPSK	25	12	19.76	19.87	19.73	21.5	0					
10	QPSK	25	25	19.81	19.81	19.68							
10	QPSK	50	0	19.84	19.87	19.84							
10	16QAM	1	0	19.70	19.74	19.59							
10	16QAM	1	25	19.60	19.77	19.60	21.5	0					
10	16QAM	1	49	19.74	19.80	19.60							
10	16QAM	25	0	19.51	19.63	19.79							
10	16QAM	25	12	19.63	19.84	19.57							
10	16QAM	50	0	19.50	19.54	19.65	21.5	0					
10	16QAM	50	12	19.62	19.83	19.79							
10	16QAM	50	25	19.61	19.62	19.54							
10	16QAM	50	0	19.62	19.63	19.69							
10	84QAM	1	0	19.69	19.68	19.52	21.5	0					
10	84QAM	1	25	19.76	19.77	19.57							
10	84QAM	1	49	19.67	19.74	19.64							
10	84QAM	25	0	19.65	19.66	19.65							
10	84QAM	25	12	19.61	19.59	19.55	21.5	0					
10	84QAM	25	25	19.62	19.84	19.68							
10	84QAM	50	0	19.63	19.62	19.71							
10	256QAM	1	0	18.21	18.18	18.12							
10	256QAM	1	49	18.14	18.39	18.26	20	1.5					
10	256QAM	1	25	18.32	18.33	18.25							
10	256QAM	25	0	18.22	18.33	18.17							
10	256QAM	25	12	18.12	18.24	18.11							
10	256QAM	25	25	18.21	18.10	18.05	20	1.5					
10	256QAM	50	0	18.21	18.31	18.18							
Channel													
Frequency (MHz)				42195	42195	42195							
5	QPSK	1	0	19.80	19.88	19.72	21.5	0					
5	QPSK	1	12	19.73	19.81	19.95							
5	QPSK	1	24	19.66	19.83	19.87							
5	QPSK	12	0	19.58	19.80	19.52							
5	QPSK	12	7	19.76	19.72	19.72	21.5	0					
5	QPSK	12	13	19.77	19.78	19.58							
5	QPSK	25	0	19.82	19.86	19.89							
5	16QAM	1	0	19.72	19.81	19.52							
5	16QAM	1	12	19.83	19.80	19.81	21.5	0					
5	16QAM	1	24	19.72	19.75	19.51							
5	16QAM	12	0	19.71	19.80	19.71							
5	16QAM	12	7	19.75	19.67	19.63							
5	16QAM	12	13	19.60	19.52	19.49	21.5	0					
5	16QAM	25	0	19.54	19.66	19.58							
5	84QAM	1	0	19.81	19.58	19.71							
5	84QAM	1	12	19.87	19.63	19.84							
5	84QAM	1	24	19.82	19.62	19.63	21.5	0					
5	84QAM	12	0	19.81	19.81	19.75							
5	84QAM	12	7	19.80	19.71	19.63							
5	84QAM	12	13	19.64	19.73	19.51							
5	84QAM	25	0	19.60	19.64	19.58	21.5	0					
5	84QAM	25	12	19.66	19.87	19.68							
5	256QAM	1	0	18.12	18.29	18.09							
5	256QAM	1	24	18.06	18.36	18.03							
5	256QAM	1	12	18.15	18.21	18.19	20	1.5					
5	256QAM	12	0	18.18	18.29	18.08							
5	256QAM	12	13	18.00	18.13	18.02							
5	256QAM	12	13	18.15	18.17	18.02							
5	256QAM	12	13	18.08	18.14	18.01	20	1.5					
5	256QAM	25	0	18.08	18.14	18.01							
Channel													
Frequency (MHz)				42195	42195	42195							



Band 2 Main PA Ant2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)						
Channel														
Frequency (MHz)				1807.5	1800	1802.5								
20	QPSK	1	0	23.54	23.60	23.67	25	0						
20	QPSK	1	49	23.48	23.51	23.60								
20	QPSK	1	99	23.40	23.47	23.45	24	1						
20	QPSK	50	0	22.64	22.70	22.72								
20	QPSK	50	24	22.57	22.69	22.58	24	1						
20	QPSK	50	50	22.52	22.66	22.59								
20	QPSK	100	0	22.62	22.75	22.71	24	1						
20	16QAM	1	0	22.91	22.99	22.89								
20	16QAM	1	49	22.87	22.73	22.81	23	2						
20	16QAM	1	99	22.80	22.89	22.82								
20	16QAM	50	0	21.80	21.73	21.82	23	2						
20	16QAM	50	24	21.72	21.72	21.57								
20	16QAM	50	50	21.67	21.74	21.81	22	3						
20	16QAM	100	0	21.65	21.71	21.81								
20	64QAM	1	0	21.81	21.94	21.84	23	2						
20	64QAM	1	49	21.78	21.88	21.78								
20	64QAM	1	99	21.81	21.90	21.83	22	3						
20	64QAM	50	24	20.58	20.70	20.61								
20	64QAM	50	50	20.59	20.67	20.55	20	5						
20	256QAM	100	0	20.59	20.69	20.55								
20	256QAM	1	49	18.58	18.83	18.77	20	5						
20	256QAM	1	99	18.70	18.80	18.70								
20	256QAM	50	0	18.69	18.76	18.72	20	5						
20	256QAM	50	24	18.67	18.80	18.54								
20	256QAM	50	50	18.50	18.60	18.45	20	5						
20	256QAM	100	0	18.50	18.60	18.45								
Channel														
Frequency (MHz)				1807.5	1800	1802.5	Turn-up time (sec)	MFR (dB)						
15	QPSK	1	0	23.43	23.49	23.40	25	0						
15	QPSK	1	37	23.38	23.37	23.34								
15	QPSK	1	74	23.30	23.42	23.30	24	1						
15	QPSK	36	0	22.58	22.69	22.68								
15	QPSK	36	36	22.48	22.60	22.48	24	1						
15	QPSK	36	39	22.48	22.57	22.49								
15	16QAM	75	0	22.57	22.69	22.59	24	1						
15	16QAM	1	0	22.84	22.77	22.77								
15	16QAM	1	37	22.58	22.67	22.49	23	2						
15	16QAM	1	74	22.80	22.81	22.80								
15	16QAM	36	0	21.97	21.99	21.48	22	3						
15	16QAM	36	20	21.46	21.59	21.50								
15	16QAM	36	39	21.56	21.61	21.55	23	2						
15	16QAM	75	0	21.53	21.61	21.55								
15	64QAM	1	0	21.72	21.84	21.77	22	3						
15	64QAM	1	37	21.63	21.80	21.64								
15	64QAM	1	74	21.72	21.75	21.75	22	3						
15	64QAM	36	0	20.71	20.64	20.61								
15	64QAM	36	20	20.48	20.58	20.47	20	5						
15	64QAM	36	39	20.48	20.53	20.45								
15	64QAM	75	0	20.49	20.60	20.46	20	5						
15	256QAM	1	0	18.66	18.67	18.67								
15	256QAM	1	37	18.48	18.58	18.47	20	5						
15	256QAM	1	74	18.58	18.70	18.58								
15	256QAM	36	0	18.58	18.68	18.48	20	5						
15	256QAM	36	20	18.52	18.64	18.40								
15	256QAM	36	39	18.41	18.54	18.38	20	5						
15	256QAM	75	0	18.52	18.60	18.57								
Channel														
Frequency (MHz)				18050	18000	18050					Turn-up time (sec)	MFR (dB)		
10	QPSK	1	0	24.03	24.06	24.03					25	0		
10	QPSK	1	25	23.34	23.41	23.35								
10	QPSK	1	49	23.29	23.42	23.31	24	1						
10	QPSK	25	0	22.56	22.66	22.66								
10	QPSK	25	12	22.44	22.65	22.40	24	1						
10	QPSK	25	25	22.48	22.53	22.47								
10	QPSK	50	0	22.84	22.84	22.81	24	1						
10	QPSK	1	0	22.84	22.84	22.79								
10	16QAM	1	25	22.63	22.69	22.52	23	2						
10	16QAM	1	49	22.76	22.78	22.78								
10	16QAM	25	0	21.52	21.64	21.51	23	2						
10	16QAM	25	12	21.49	21.66	21.43								
10	16QAM	50	0	21.60	21.68	21.60	23	2						
10	16QAM	50	0	21.55	21.63	21.51								
10	64QAM	1	0	21.69	21.87	21.81	23	2						
10	64QAM	1	24	21.75	21.74	21.73								
10	64QAM	1	49	21.66	21.85	21.77	22	3						
10	64QAM	25	0	20.69	20.73	20.64								
10	64QAM	25	12	20.44	20.46	20.40	20	5						
10	64QAM	25	25	20.53	20.63	20.46								
10	64QAM	50	0	20.46	20.55	20.45	20	5						
10	256QAM	1	0	18.68	18.68	18.68								
10	256QAM	1	25	18.50	18.64	18.53	20	5						
10	256QAM	1	49	18.58	18.75	18.59								
10	256QAM	25	0	18.50	18.56	18.41	20	5						
10	256QAM	25	12	18.50	18.56	18.41								
10	256QAM	25	25	18.46	18.56	18.41	20	5						
10	256QAM	50	0	18.55	18.56	18.49								
Channel														
Frequency (MHz)				18025	18000	18025					Turn-up time (sec)	MFR (dB)		
3	QPSK	1	0	23.47	23.50	23.38					25	0		
3	QPSK	1	12	23.36	23.39	23.32								
3	QPSK	1	24	23.32	23.35	23.32	24	1						
3	QPSK	12	0	23.16	23.16	23.16								
3	QPSK	12	7	22.54	22.54	22.44	24	1						
3	QPSK	12	13	22.42	22.54	22.44								
3	QPSK	25	0	22.48	22.53	22.48	24	1						
3	16QAM	1	0	22.83	22.89	22.84								
3	16QAM	1	24	22.69	22.77	22.84	23	2						
3	16QAM	12	0	21.54	21.63	21.58								
3	16QAM	12	7	21.46	21.60	21.45	23	2						
3	16QAM	12	13	21.57	21.65	21.50								
3	16QAM	25	0	21.53	21.64	21.52	23	2						
3	64QAM	1	0	21.66	21.86	21.75								
3	64QAM	1	12	21.71	21.79	21.79	22	3						
3	64QAM	1	24	21.74	21.82	21.80								
3	64QAM	12	0	20.61	20.74	20.64	22	3						
3	64QAM	12	7	20.51	20.62	20.54								
3	64QAM	12	13	20.53	20.64	20.54	20	5						
3	64QAM	25	0	20.47	20.57	20.47								
3	256QAM	1	0	18.71	18.73	18.63	20	5						
3	256QAM	1	12	18.59	18.59	18.48								
3	256QAM	1	24	18.60	18.73	18.60	20	5						
3	256QAM	12	0	18.84	18.70	18.64								
3	256QAM	12	7	18.54	18.53	18.48	20	5						
3	256QAM	12	13	18.54	18.54	18.42								
3	256QAM	25	0	18.46	18.56	18.51	20	5						
3	256QAM	25	12	18.46	18.56	18.41								
Channel														
Frequency (MHz)				18015	18000	18015					Turn-up time (sec)	MFR (dB)		
3	QPSK	1	0	23.47	23.50	23.38					25	0		
3	QPSK	1	12	23.40	23.39	23.32								
3	QPSK	1	24	23.32	23.35	23.32	24	1						
3	QPSK	12	0	23.16	23.16	23.16								
3	QPSK	12	7	22.57	22.62	22.62	24	1						
3	QPSK	12	13	22.44	22.60	22.49								
3	QPSK	25	0	22.59	22.69	22.64	24	1						
3	16QAM	1	0	22.83	22.88	22.84								
3	16QAM	1	24	22.69	22.77	22.84	23	2						
3	16QAM	12	0	21.54	21.63	21.58								
3	16QAM	12	7	21.46	21.60	21.48	23	2						
3	16QAM	12	13	21.42	21.68	21.42								
3	16QAM	25	0	21.61	21.64	21.48	22	3						
3	64QAM	1	0	21.52	21.66	21.58								
3	64QAM	1	12	21.76	21.82	21.76	22	3						
3	64QAM	1	24	21.69	21.74	21.73								
3	64QAM	1	24	21.72	21.84	21.71	22	3						
3	64QAM	12	0	20.64	20.67	20.64								
3	64QAM	12	7	20.47	20.56	20.48	20	5						
3	64QAM	12	13	20.47	20.56	20.48								
3	256QAM	1	0	18.76	18.77	18.72	20	5						
3	256QAM	1	12	18.62	18.62	18.62								
3	256QAM	1	24	18.62	18.72	18.65	20	5						
3	256QAM	12	0	18.89	18.68	18.68								
3	256QAM	12	7	18.83	18.63	18.63	20	5						
3	256QAM	12	13	18.55	18.55	18.44								
3	256QAM	25	0	18.47	18.53	18.31	20	5						
3	256QAM	25	12	18.47	18.53	18.31								
Channel														
Frequency (MHz)				18007	18000	18007					Turn-up time (sec)	MFR (dB)		
1.4	QPSK	1	0	23.46	23.52	23.41					25	0		
1.4	QPSK	1	12	23.40	23.42	23.40								
1.4	QPSK	1	24	23.30	23.35	23.31	24	1						
1.4	QPSK	3	0	23.41	23.49	23.35								
1.4	QPSK	3	12	23.44	23.48	23.44	24	1						
1.4	QPSK	3	24	23.35	23.34	23.34								
1.4	QPSK	6	0	22.57	22.69	22.67	24	1						
1.4	QPSK	6	12	22.58	22.68	22.67								
1.4	16QAM	1	0	22.92	22.71	22.84	23	2						
1.4	16QAM	1	12	22.92	22.68	22.84								
1.4	16QAM	1	24											

Band 25 Main PA Ant2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 20145	Power Middle Ch./Freq. 20145	Power High Ch./Freq. 20145	Time-up (dB)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	23.53	23.60	23.60	25	0						
20	QPSK	1	49	23.50	23.43	23.38								
20	QPSK	1	99	23.40	23.51	23.46								
20	QPSK	50	0	22.59	22.73	22.88								
20	QPSK	50	24	22.57	22.47	22.84								
20	QPSK	50	50	22.84	22.70	22.84	24	1						
20	QPSK	100	0	22.56	22.67	22.56								
20	16QAM	1	0	22.50	22.50	22.50								
20	16QAM	1	49	22.47	22.50	22.50								
20	16QAM	1	99	22.59	22.63	22.67								
20	16QAM	50	0	21.70	21.62	21.77	24	1						
20	16QAM	50	24	21.56	21.65	21.54								
20	16QAM	50	50	21.86	21.73	21.87								
20	16QAM	100	0	21.62	21.66	21.59								
20	16QAM	1	0	21.79	21.84	21.78								
20	64QAM	1	49	21.84	21.78	21.70	23	2						
20	64QAM	1	99	21.84	21.91	21.80								
20	64QAM	50	0	20.55	20.60	20.57								
20	64QAM	50	24	20.57	20.68	20.58								
20	64QAM	50	50	20.41	20.71	20.67								
20	64QAM	100	0	20.56	20.68	20.59	22	3						
20	256QAM	1	0	18.73	18.66	18.72								
20	256QAM	1	49	18.66	18.72	18.59								
20	256QAM	1	99	18.71	18.75	18.66								
20	256QAM	50	0	18.54	18.60	18.58								
20	256QAM	50	24	18.56	18.60	18.57	20	5						
20	256QAM	50	50	18.60	18.68	18.61								
20	256QAM	100	0	18.63	18.69	18.65								
Channel														
Frequency (MHz)														
15	QPSK	1	0	23.45	23.61	23.58	25	0						
15	QPSK	1	37	23.41	23.51	23.61								
15	QPSK	1	74	23.35	23.40	23.39								
15	QPSK	36	0	22.48	22.70	22.62								
15	QPSK	36	20	22.45	22.38	22.59								
15	QPSK	36	39	22.59	22.62	22.57	24	1						
15	QPSK	75	0	22.49	22.57	22.43								
15	16QAM	1	0	22.38	22.52	22.42								
15	16QAM	1	37	22.41	22.49	22.42								
15	16QAM	36	0	22.59	22.62	22.51								
15	16QAM	36	0	21.62	21.75	21.67	23	2						
15	16QAM	56	20	21.44	21.53	21.46								
15	16QAM	56	39	21.50	21.57	21.50								
15	64QAM	1	0	21.72	21.73	21.64								
15	64QAM	1	39	21.54	21.60	21.57								
15	64QAM	1	74	21.71	21.81	21.73	22	3						
15	64QAM	36	0	20.44	20.55	20.46								
15	64QAM	36	20	20.49	20.60	20.45								
15	64QAM	36	39	20.47	20.57	20.55								
15	64QAM	75	0	20.43	20.61	20.43								
15	256QAM	1	0	18.64	18.71	18.62	20	5						
15	256QAM	1	37	18.54	18.60	18.45								
15	256QAM	1	74	18.63	18.70	18.52								
15	256QAM	36	0	18.53	18.65	18.58								
15	256QAM	36	20	18.51	18.60	18.47								
15	256QAM	36	39	18.48	18.53	18.53	20	5						
15	256QAM	75	0	18.56	18.55	18.42								
Channel														
Frequency (MHz)														
10	QPSK	1	0	23.43	23.58	23.51	25	0						
10	QPSK	1	25	23.45	23.57	23.47								
10	QPSK	1	49	23.37	23.45	23.38								
10	QPSK	25	0	22.47	22.60	22.68								
10	QPSK	25	12	22.54	22.61	22.58								
10	QPSK	25	25	22.50	22.66	22.53	24	1						
10	QPSK	50	0	22.46	22.57	22.48								
10	16QAM	1	0	22.38	22.50	22.48								
10	16QAM	1	25	22.33	22.55	22.42								
10	16QAM	25	0	21.53	21.65	21.54								
10	16QAM	25	12	21.45	21.57	21.51	23	2						
10	16QAM	50	0	21.60	21.67	21.54								
10	16QAM	50	0	21.54	21.57	21.54								
10	64QAM	1	0	21.67	21.73	21.70								
10	64QAM	1	25	21.53	21.60	21.63								
10	64QAM	1	49	21.81	21.83	21.72	22	3						
10	64QAM	25	0	20.47	20.59	20.46								
10	64QAM	25	12	20.42	20.51	20.48								
10	64QAM	25	25	20.55	20.60	20.61								
10	64QAM	50	0	20.41	20.63	20.46								
10	256QAM	1	0	18.65	18.71	18.58	20	5						
10	256QAM	1	25	18.63	18.64	18.51								
10	256QAM	1	49	18.67	18.62	18.51								
10	256QAM	25	0	18.51	18.52	18.57								
10	256QAM	25	12	18.45	18.52	18.36								
10	256QAM	25	25	18.50	18.50	18.57	20	5						
10	256QAM	50	0	18.49	18.60	18.48								
Channel														
Frequency (MHz)														
5	QPSK	1	0	23.43	23.58	23.51	25	0						
5	QPSK	1	12	23.45	23.53	23.50								
5	QPSK	1	24	23.33	23.39	23.41								
5	QPSK	12	0	22.50	22.64	22.62								
5	QPSK	12	7	22.43	22.52	22.59								
5	QPSK	12	13	22.57	22.64	22.51	24	1						
5	QPSK	25	0	22.48	22.44	22.50								
5	16QAM	1	0	22.48	22.53	22.51								
5	16QAM	1	12	22.35	22.47	22.38								
5	16QAM	1	24	22.50	22.62	22.51								
5	16QAM	12	0	21.60	21.73	21.62	23	2						
5	16QAM	12	7	21.41	21.57	21.50								
5	16QAM	12	14	21.54	21.62	21.52								
5	16QAM	25	0	21.47	21.54	21.49								
5	64QAM	1	0	21.74	21.76	21.73								
5	64QAM	1	12	21.59	21.65	21.61	23	2						
5	64QAM	1	24	21.77	21.80	21.74								
5	64QAM	12	0	20.52	20.62	20.48								
5	64QAM	12	7	20.50	20.57	20.54								
5	64QAM	12	13	20.56	20.67	20.55								
5	64QAM	25	0	20.51	20.66	20.49	22	3						
5	256QAM	1	0	18.60	18.71	18.50								
5	256QAM	1	12	18.58	18.63	18.48								
5	256QAM	1	24	18.60	18.66	18.57								
5	256QAM	12	0	18.54	18.55	18.38								
5	256QAM	12	7	18.41	18.52	18.50	20	5						
5	256QAM	12	13	18.55	18.60	18.50								
5	256QAM	25	0	18.55	18.55	18.50								
Channel														
Frequency (MHz)														
3	QPSK	1	0	23.50	23.57	23.49	25	0						
3	QPSK	1	14	23.45	23.51	23.45								
3	QPSK	1	14	23.32	23.41	23.31								
3	QPSK	8	0	22.46	22.61	22.64								
3	QPSK	8	7	22.50	22.59	22.52								
3	QPSK	8	7	22.59	22.66	22.55	24	1						
3	QPSK	16	0	22.53	22.58	22.51								
3	QPSK	16	7	22.50	22.53	22.43								
3	16QAM	1	0	22.33	22.45	22.42								
3	16QAM	1	14	22.48	22.55	22.49								
3	16QAM	1	14	22.62	22.74	22.71	23	2						
3	16QAM	8	4	21.41	21.56	21.51								
3	16QAM	8	7	21.62	21.58	21.67								
3	16QAM	8	7	21.50	21.66	21.65								
3	64QAM	1	0	21.66	21.77	21.64								
3	64QAM	1	8	21.63	21.63	21.63	23	2						
3	64QAM	8	4	20.49	20.60	20.45								
3	64QAM	8	7	20.49	20.58	20.47								
3	64QAM	16	0	20.43	20.54	20.47								
3	64QAM	16	7	18.63	18.76	18.69								
3	64QAM	16	7	18.56	18.65	18.58	20	5						
3	64QAM	1	0	18.63	18.63	18.61								
3	64QAM	1	8	18.64	18.77	18.68								
3	64QAM	8	4	18.48	18.57	18.53								
3	64QAM	8	7	18.57	18.55	18.46								
3	256QAM	1	0	18.62	18.63	18.50	20	5						
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	23.46	23.52	23.49					25	0		
1.4	QPSK	1	8	23.45	23.51	23.45								
1.4	QPSK	1	8	23.27	23.44	23.41								
1.4	QPSK	3	0	22.57	22.68	22.68								
1.4	QPSK	3	8	23.43	23.54	23.43								
1.4	QPSK	3	8	23.28	23.45	23.34	24	1						
1.4	QPSK	16	0	22.53	22.59	22.52								
1.4	16QAM	1	0	22.55	22.68	22.58								
1.4	16QAM	1	8	22.55	22.68	22.58								
1.4	16QAM	3	0	22.38	22.48	22.49								
1.4	16QAM	3	8	23.35	23.45	23.44	24	1						
1.4	16QAM	3	8	23.40	23.45	23.44								
1.4	16QAM	8	0	21.57	21.78	21.69								
1.4	16QAM	8	8	21.53	21.54	21.51								
1.4	16QAM	16	0	21.51	21.52	21.54								
1.4	16QAM	16	8	21.70	21.76	21.75	23	2						
1.4	16QAM	16	8	21.59	21.67	21.61								
1.4	16QAM	8	0	21.73	21.79	21.68								
1.4	16QAM	8	8	20.43	20.62	20.50								
1.4	16QAM	16	0	20.47	20.57	20.51								
1.4	16QAM	16	8	19.55	18.63	18.48	20	5						
1.4	16QAM	1	0	18.60	18.67	18.53								
1.4	16QAM	1	8	18.58	18.57	18.54								
1.4	16QAM	3	0	18.52	18.54	18.47								
1.4	16QAM	3	8	18.59	18.59	18.50								
1.4	256QAM	1	0	18.56	18.60	18.50	20	5						
1.4	256QAM	1	8	18.56	18.60	18.50								
1.4	256QAM	1	8	18.56	18.60	18.50								
1.4	256QAM	1	8	18.56	18.60	18.50								



Band 38 Main PA Ant2												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	25.19	25.22	25.17	25.5	0				
20	QPSK	1	48	25.08	25.18	25.09						
20	QPSK	1	96	25.08	25.15	25.10						
20	QPSK	50	0	24.25	24.30	24.23	24.5	1				
20	QPSK	50	24	24.17	24.27	24.21						
20	QPSK	50	48	24.10	24.20	24.13						
20	QPSK	100	0	24.13	24.23	24.17	24.5	1				
20	16QAM	1	0	23.16	23.23	23.08						
20	16QAM	1	48	23.02	23.14	23.00						
20	16QAM	1	96	23.02	23.17	23.09	23.5	2				
20	16QAM	50	0	23.19	23.27	23.02						
20	16QAM	50	24	23.17	23.22	23.11						
20	16QAM	50	50	23.26	23.31	23.27	23.5	2				
20	16QAM	100	0	22.23	22.26	22.11						
20	16QAM	100	0	22.23	22.26	22.24						
20	16QAM	1	48	22.81	22.81	22.84	23.5	2				
20	16QAM	1	96	22.71	22.85	22.78						
20	16QAM	50	0	22.22	22.27	22.21						
20	16QAM	50	24	22.08	22.22	22.08	22.5	3				
20	16QAM	50	50	22.20	22.27	22.19						
20	16QAM	100	0	22.16	22.22	22.19						
20	256QAM	1	0	20.26	20.30	20.24	20.5	5				
20	256QAM	1	48	20.19	20.23	20.13						
20	256QAM	1	96	20.19	20.24	20.12						
20	256QAM	50	0	20.15	20.25	20.16	20.5	5				
20	256QAM	50	24	20.03	20.16	20.11						
20	256QAM	50	50	20.08	20.20	20.11						
20	256QAM	100	0	19.00	19.13	19.08	20.5					
Channel												
Frequency (MHz)												
15	QPSK	1	0	25.10	25.22	25.17	25.5	0				
15	QPSK	1	37	25.05	25.11	24.95						
15	QPSK	1	74	24.98	25.04	24.98						
15	QPSK	36	0	24.15	24.15	24.15	24.5	1				
15	QPSK	36	20	24.04	24.20	24.11						
15	QPSK	36	36	24.00	24.00	24.00						
15	QPSK	75	0	24.08	24.09	24.13	24.5	1				
15	16QAM	1	0	23.11	23.15	22.93						
15	16QAM	1	37	23.02	23.02	22.94						
15	16QAM	1	74	22.92	23.06	22.99	23.5	2				
15	16QAM	36	0	23.15	23.17	23.14						
15	16QAM	36	20	23.03	23.12	23.07						
15	16QAM	36	36	23.18	23.18	23.22	23.5	2				
15	16QAM	75	0	23.14	23.15	23.06						
15	16QAM	1	0	22.71	22.79	22.78						
15	16QAM	1	37	22.72	22.82	22.78	23.5	2				
15	16QAM	1	74	22.89	22.78	22.86						
15	16QAM	36	0	22.11	22.17	22.13						
15	16QAM	36	20	21.94	22.14	22.00	22.5	3				
15	16QAM	36	36	22.00	22.00	22.00						
15	16QAM	75	0	21.95	22.11	22.05						
15	256QAM	1	0	20.01	20.22	20.12	20.5	5				
15	256QAM	1	37	20.00	20.12	20.00						
15	256QAM	1	74	20.07	20.15	20.09						
15	256QAM	36	0	20.04	20.19	20.11	20.5	5				
15	256QAM	36	20	19.92	20.08	20.05						
15	256QAM	36	36	19.98	20.12	20.03						
15	256QAM	75	0	20.03	20.07	19.99	20.5					
Channel												
Frequency (MHz)												
10	QPSK	1	0	25.18	25.17	25.12	25.5	0				
10	QPSK	1	25	25.07	25.14	25.05						
10	QPSK	1	48	24.95	25.12	25.01						
10	QPSK	25	0	24.15	24.22	24.16	24.5	1				
10	QPSK	25	12	24.08	24.21	24.18						
10	QPSK	25	25	24.01	24.05	24.02						
10	QPSK	50	0	24.10	24.10	24.13	24.5	1				
10	16QAM	1	0	23.09	23.14	23.04						
10	16QAM	1	25	22.89	23.07	22.89						
10	16QAM	1	48	22.87	23.08	23.04	24.5	1				
10	16QAM	25	0	23.09	23.13	23.13						
10	16QAM	25	19	23.08	23.11	23.08						
10	16QAM	25	48	23.15	23.28	23.16	23.5	2				
10	16QAM	50	0	23.14	23.22	23.06						
10	16QAM	50	25	22.77	22.78	22.77						
10	16QAM	1	48	22.81	22.78	22.89	23.5	2				
10	16QAM	25	0	22.12	22.18	22.12						
10	16QAM	25	12	22.02	22.13	21.96						
10	16QAM	25	25	22.11	22.17	22.05	22.5	3				
10	16QAM	50	0	22.04	22.14	22.07						
10	256QAM	1	0	20.20	20.18	20.11						
10	256QAM	1	25	20.11	20.13	20.01	20.5	5				
10	256QAM	1	48	20.14	20.15	20.03						
10	256QAM	25	0	20.04	20.17	20.10						
10	256QAM	25	12	19.91	20.04	19.97	20.5	5				
10	256QAM	25	25	20.03	20.06	20.00						
10	256QAM	50	0	19.98	20.09	19.91						
Channel												
Frequency (MHz)												
5	QPSK	1	0	25.05	25.19	25.13	25.5	0				
5	QPSK	1	16	24.90	25.14	24.97						
5	QPSK	1	24	24.95	25.00	25.04						
5	QPSK	12	0	24.19	24.26	24.14	24.5	1				
5	QPSK	12	7	24.04	24.19	24.11						
5	QPSK	12	16	24.07	24.08	24.09						
5	QPSK	25	0	24.07	24.15	24.03	24.5	1				
5	16QAM	1	0	23.10	23.12	23.00						
5	16QAM	1	12	22.80	23.09	22.88						
5	16QAM	1	24	23.04	23.10	22.97	23.5	2				
5	16QAM	12	0	23.12	23.17	23.12						
5	16QAM	12	7	23.03	23.18	23.06						
5	16QAM	12	13	23.15	23.20	23.20	23.5	2				
5	16QAM	25	0	23.15	23.12	23.04						
5	16QAM	1	0	22.70	22.78	22.73						
5	16QAM	1	12	22.73	22.80	22.76	23.5	2				
5	16QAM	1	24	22.86	22.82	22.74						
5	16QAM	12	0	22.10	22.21	22.10						
5	16QAM	12	7	22.06	22.15	22.00	22.5	3				
5	16QAM	12	13	22.18	22.18	22.06						
5	16QAM	25	0	22.06	22.16	22.06						
5	256QAM	1	0	20.17	20.15	20.15	20.5	5				
5	256QAM	1	12	20.16	20.16	20.03						
5	256QAM	1	24	20.10	20.11	20.01						
5	256QAM	12	0	20.08	20.10	19.99	20.5	5				
5	256QAM	12	7	19.92	20.03	19.97						
5	256QAM	12	13	20.01	20.16	20.07						
5	256QAM	25	0	19.98	20.05	19.95	20.5	5				
Channel												
Frequency (MHz)												

Band 41 Main PA Ant2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	25.18	25.23	25.23	25.23	25.23	25.5	0
20	QPSK	1	48	25.04	25.20	25.24	25.25	25.12		
20	QPSK	1	96	25.15	25.23	25.21	25.23	25.27		
20	QPSK	50	24	24.93	24.41	24.38	24.39	24.40		
20	QPSK	50	24	24.29	24.27	24.43	24.28	24.20	24.5	1
20	QPSK	100	0	24.16	24.26	24.34	24.28	24.30		
20	QPSK	100	0	24.19	24.25	24.31	24.24	24.29		
20	16QAM	1	0	25.18	25.27	25.34	25.22	25.15		
20	16QAM	1	48	25.03	25.23	25.26	25.23	25.13	24.5	1
20	16QAM	1	96	25.14	25.13	25.23	25.25	25.15		
20	16QAM	50	0	25.27	25.38	25.40	25.30	25.23		
20	16QAM	50	24	25.22	25.33	25.33	25.23	25.19		
20	16QAM	50	50	25.35	25.36	25.38	25.34	25.28	23.5	2
20	16QAM	100	0	25.18	25.36	25.37	25.26	25.23		
20	16QAM	100	0	25.20	25.30	25.32	25.23	25.19		
20	64QAM	1	48	25.04	24.97	25.08	25.09	25.02	23.5	2
20	64QAM	1	96	25.08	25.07	25.18	25.17	25.10		
20	64QAM	50	0	25.20	25.24	25.29	25.28	25.28		
20	64QAM	50	24	25.29	25.25	25.28	25.25	25.15	22.5	3
20	64QAM	50	50	25.35	25.36	25.38	25.34	25.28		
20	64QAM	100	0	25.21	25.23	25.27	25.26	25.22		
20	256QAM	1	0	25.27	25.33	25.36	25.41	25.22		
20	256QAM	1	48	25.04	25.33	25.33	25.30	25.23	20.5	5
20	256QAM	1	96	25.21	25.35	25.35	25.22	25.14		
20	256QAM	50	24	25.20	25.27	25.27	25.27	25.14		
20	256QAM	50	24	25.14	25.14	25.20	25.20	25.21		
20	256QAM	50	50	25.31	25.31	25.29	25.18	25.14	20.5	5
20	256QAM	100	0	25.20	25.25	25.29	25.28	25.25		
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.93	24.43	24.43	24.43	24.43	24.5	0
15	QPSK	1	37	24.90	25.05	25.15	25.20	25.03	26	0
15	QPSK	1	74	24.96	25.16	25.19	25.25	25.08		
15	QPSK	50	24	24.24	24.36	24.38	24.21	24.30		
15	QPSK	50	24	24.19	24.12	24.34	24.25	24.18	24.5	1
15	QPSK	50	24	24.14	24.14	24.24	24.18	24.13		
15	QPSK	75	0	24.16	24.19	24.21	24.20	24.11		
15	16QAM	1	0	25.07	25.22	25.23	25.09	25.03	24.5	1
15	16QAM	1	37	25.04	25.24	25.24	25.13	25.07		
15	16QAM	1	74	25.00	25.01	25.20	25.18	25.08		
15	16QAM	50	0	25.21	25.26	25.28	25.23	25.19		
15	16QAM	50	24	25.29	25.24	25.29	25.28	25.19	23.5	2
15	16QAM	50	39	25.22	25.30	25.31	25.25	25.15		
15	16QAM	75	0	25.15	25.25	25.25	25.11	25.05	22.5	3
15	64QAM	1	0	25.23	25.28	25.29	25.24	25.19		
15	64QAM	1	37	25.28	25.29	25.26	25.27	25.27	23.5	2
15	64QAM	1	74	25.29	25.28	25.28	25.25	25.27		
15	64QAM	50	0	25.17	25.30	25.32	25.22	25.22		
15	64QAM	50	24	25.24	25.11	25.22	25.27	25.24		
15	64QAM	50	24	25.15	25.23	25.22	25.27	25.24	22.5	3
15	64QAM	75	0	25.15	25.18	25.26	25.14	25.07		
15	256QAM	1	0	25.23	25.28	25.29	25.24	25.19		
15	256QAM	1	37	25.10	25.28	25.21	25.04	25.10	20.5	5
15	256QAM	1	74	25.12	25.23	25.26	25.09	25.15		
15	256QAM	50	24	25.08	25.16	25.25	25.21	25.05	20.5	5
15	256QAM	50	24	25.09	25.03	25.25	25.25	25.10		
15	256QAM	50	39	25.10	25.06	25.27	25.26	25.16	20.5	5
15	256QAM	75	0	25.07	25.17	25.21	25.02	25.08		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.93	24.43	24.43	24.43	24.43	24.5	0
10	QPSK	1	25	24.99	25.14	25.11	25.11	25.06	26	0
10	QPSK	1	50	25.11	25.26	25.26	25.26	25.21		
10	QPSK	25	12	24.24	24.36	24.41	24.21	24.30		
10	QPSK	25	12	24.19	24.24	24.36	24.18	24.21	24.5	1
10	QPSK	25	12	24.14	24.14	24.24	24.18	24.13		
10	QPSK	50	0	24.14	24.12	24.25	24.14	24.20		
10	16QAM	1	0	25.04	25.15	25.22	25.17	25.11		
10	16QAM	1	25	25.09	25.02	25.23	25.19	25.04	24.5	1
10	16QAM	1	49	25.03	25.09	25.22	25.18	25.11		
10	16QAM	25	0	25.23	25.30	25.27	25.18	25.16		
10	16QAM	25	12	25.14	25.17	25.24	25.13	25.04		
10	16QAM	25	20	25.21	25.31	25.31	25.30	25.17		
10	64QAM	1	0	25.08	25.23	25.23	25.11	25.03	24.5	1
10	64QAM	1	0	25.20	25.26	25.23	25.25	25.23		
10	64QAM	1	25	25.21	25.29	25.25	25.27	25.28	23.5	2
10	64QAM	1	25	25.21	25.29	25.25	25.27	25.28		
10	64QAM	25	0	25.13	25.25	25.29	25.26	25.17		
10	64QAM	25	12	25.03	25.17	25.23	25.13	25.02	22.5	3
10	64QAM	25	12	25.12	25.19	25.22	25.22	25.13		
10	64QAM	50	0	25.07	25.10	25.27	25.25	25.13		
10	64QAM	50	0	25.20	25.26	25.26	25.26	25.11		
10	256QAM	1	25	25.16	25.26	25.27	25.15	25.18	20.5	5
10	256QAM	1	49	25.05	25.27	25.29	25.14	25.09		
10	256QAM	25	12	25.04	25.13	25.27	25.25	25.13	20.5	5
10	256QAM	25	12	25.06	25.05	25.26	25.14	25.10		
10	256QAM	25	20	25.08	25.12	25.15	25.09	25.10	20.5	5
10	256QAM	50	0	25.07	25.17	25.21	25.02	25.08		
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.93	24.43	24.43	24.43	24.43	24.5	0
5	QPSK	1	12	24.92	25.08	25.15	25.15	25.00	26	0
5	QPSK	1	25	25.11	25.26	25.26	25.26	25.13		
5	QPSK	12	0	24.22	24.38	24.36	24.27	24.37		
5	QPSK	12	7	24.18	24.14	24.33	24.13	24.16	24.5	1
5	QPSK	25	12	24.11	24.19	24.38	24.18	24.09		
5	QPSK	25	0	24.07	24.21	24.39	24.17	24.08		
5	16QAM	1	0	25.08	25.22	25.29	25.07	25.08	24.5	1
5	16QAM	1	12	25.10	25.27	25.19	25.13	25.06		
5	16QAM	1	24	25.03	25.06	25.28	25.16	25.07		
5	16QAM	12	7	25.12	25.27	25.27	25.25	25.12		
5	16QAM	12	7	25.17	25.25	25.28	25.11	25.13	23.5	2
5	16QAM	12	13	25.19	25.22	25.23	25.25	25.17		
5	64QAM	1	0	25.08	25.26	25.26	25.13	25.10	24.5	1
5	64QAM	1	0	25.23	25.27	25.23	25.27	25.27		
5	64QAM	1	12	25.00	25.20	25.23	25.23	25.23	23.5	2
5	64QAM	1	24	25.12	25.24	25.28	25.22	25.22		
5	64QAM	25	0	25.18	25.16	25.28	25.23	25.16	22.5	3
5	64QAM	25	12	25.17	25.21	25.21	25.21	25.11		
5	256QAM	1	24	25.16	25.26	25.29	25.13	25.15	20.5	5
5	256QAM	1	24	25.08	25.21	25.22	25.11	25.09		
5	256QAM	25	12	25.08	25.15	25.27	25.25	25.11	20.5	5
5	256QAM	25	12	25.02	25.03	25.23	25.05	25.10		
5	256QAM	12	13	25.08	25.06	25.16	25.13	25.09	20.5	5
5	256QAM	50	0	25.13	25.19	25.23	25.11	25.09		

Band 4 Main PA Ant3 DSI0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (dB)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	17.61	17.69	17.76	19.5	0						
20	QPSK	1	49	17.67	17.66	17.73								
20	QPSK	1	99	17.69	17.73	17.76								
20	QPSK	50	0	17.67	17.74	17.82	19.5	0						
20	QPSK	50	24	17.71	17.82	17.89								
20	QPSK	50	50	17.69	17.84	17.89								
20	QPSK	100	0	17.66	17.69	17.81	19.5	0						
20	16QAM	100	0	17.62	17.67	17.81								
20	16QAM	1	49	17.59	17.61	17.83								
20	16QAM	1	99	17.63	17.83	17.84	19.5	0						
20	16QAM	50	0	17.66	17.81	17.89								
20	16QAM	50	24	17.74	17.76	17.73								
20	16QAM	50	50	17.67	17.81	17.87	19.5	0						
20	16QAM	100	0	17.79	17.89	17.87								
20	64QAM	1	0	17.63	17.64	17.70	19.5	0						
20	64QAM	1	49	17.80	17.73	17.86								
20	64QAM	50	0	17.85	17.74	17.83								
20	64QAM	50	0	17.86	17.67	17.67	19.5	0						
20	64QAM	50	24	17.53	17.58	17.52								
20	64QAM	50	50	17.58	17.63	17.56								
20	64QAM	100	0	17.62	17.65	17.69	19.5	0						
20	256QAM	1	49	17.55	17.56	17.54								
20	256QAM	1	99	17.55	17.51	17.52								
20	256QAM	50	0	17.65	17.63	17.62	19.5	0						
20	256QAM	50	24	17.64	17.68	17.59								
20	256QAM	50	50	17.60	17.72	17.67								
20	256QAM	100	0	17.61	17.61	17.61	19.5	0						
Channel														
Frequency (MHz)														
16	QPSK	1	0	17.72	17.65	17.67	19.5	0						
16	QPSK	1	37	17.68	17.68	17.62								
16	QPSK	1	74	17.75	17.63	17.66								
16	QPSK	36	0	17.64	17.72	17.67	19.5	0						
16	QPSK	36	18	17.78	17.65	17.71								
16	QPSK	36	36	17.68	17.65	17.69								
16	QPSK	75	0	17.66	17.67	17.62	19.5	0						
16	16QAM	1	0	17.60	17.66	17.72								
16	16QAM	1	37	17.68	17.58	17.69								
16	16QAM	1	74	17.79	17.67	17.69	19.5	0						
16	16QAM	36	0	17.68	17.51	17.60								
16	16QAM	36	20	17.67	17.68	17.74								
16	16QAM	75	0	17.66	17.62	17.62	19.5	0						
16	16QAM	75	0	17.74	17.62	17.62								
16	64QAM	1	0	17.67	17.52	17.57	19.5	0						
16	64QAM	1	37	17.75	17.63	17.63								
16	64QAM	1	74	17.77	17.67	17.60								
16	64QAM	36	0	17.59	17.63	17.66	19.5	0						
16	64QAM	36	18	17.63	17.64	17.64								
16	64QAM	36	36	17.67	17.63	17.67								
16	64QAM	75	0	17.65	17.70	17.62	19.5	0						
16	256QAM	1	0	17.62	17.59	17.62								
16	256QAM	1	37	17.60	17.50	17.51								
16	256QAM	1	74	17.64	17.53	17.52	19.5	0						
16	256QAM	36	0	17.63	17.61	17.61								
16	256QAM	36	20	17.62	17.72	17.65								
16	256QAM	36	39	17.74	17.76	17.69	19.5	0						
16	256QAM	75	0	17.61	17.60	17.67								
Channel														
Frequency (MHz)														
10	QPSK	1	0	17.15	17.15	17.15	19.5	0						
10	QPSK	1	25	17.66	17.69	17.63								
10	QPSK	1	49	17.69	17.69	17.71								
10	QPSK	25	0	17.61	17.72	17.69	19.5	0						
10	QPSK	25	12	17.71	17.62	17.66								
10	QPSK	25	25	17.68	17.69	17.69								
10	QPSK	50	0	17.66	17.66	17.66	19.5	0						
10	16QAM	1	0	17.58	17.51	17.54								
10	16QAM	1	26	17.63	17.62	17.66	19.5	0						
10	16QAM	25	0	17.65	17.67	17.62								
10	16QAM	25	0	17.65	17.67	17.62	19.5	0						
10	16QAM	25	12	17.64	17.62	17.61								
10	16QAM	50	0	17.68	17.68	17.67	19.5	0						
10	16QAM	50	0	17.61	17.60	17.63								
10	64QAM	1	0	17.73	17.60	17.73	19.5	0						
10	64QAM	1	24	17.63	17.63	17.63								
10	64QAM	1	49	17.66	17.54	17.54								
10	64QAM	25	0	17.64	17.65	17.60	19.5	0						
10	64QAM	25	12	17.61	17.62	17.61								
10	64QAM	25	25	17.62	17.65	17.62								
10	64QAM	50	0	17.63	17.51	17.55	19.5	0						
10	256QAM	1	0	17.62	17.53	17.52								
10	256QAM	1	26	17.62	17.54	17.62								
10	256QAM	1	49	17.66	17.55	17.64	19.5	0						
10	256QAM	25	0	17.71	17.62	17.62								
10	256QAM	25	12	17.67	17.70	17.74								
10	256QAM	25	25	17.66	17.74	17.72	19.5	0						
10	256QAM	50	0	17.66	17.64	17.68								
Channel														
Frequency (MHz)														
5	QPSK	1	0	17.63	17.56	17.56	19.5	0						
5	QPSK	1	12	17.64	17.77	17.61								
5	QPSK	1	24	17.63	17.60	17.65								
5	QPSK	12	0	17.65	17.69	17.69	19.5	0						
5	QPSK	12	7	17.71	17.54	17.59								
5	QPSK	12	13	17.71	17.62	17.67								
5	QPSK	25	0	17.72	17.62	17.67	19.5	0						
5	16QAM	1	0	17.67	17.59	17.69								
5	16QAM	1	12	17.63	17.69	17.64								
5	16QAM	1	24	17.63	17.63	17.63	19.5	0						
5	16QAM	12	0	17.79	17.71	17.68								
5	16QAM	12	7	17.76	17.70	17.66								
5	16QAM	12	13	17.68	17.68	17.68	19.5	0						
5	16QAM	25	0	17.71	17.65	17.67								
5	64QAM	1	0	17.77	17.65	17.76	19.5	0						
5	64QAM	1	12	17.74	17.66	17.63								
5	64QAM	1	24	17.80	17.66	17.72								
5	64QAM	12	0	17.60	17.63	17.68	19.5	0						
5	64QAM	12	7	17.64	17.60	17.68								
5	64QAM	12	13	17.68	17.60	17.68								
5	64QAM	25	0	17.61	17.63	17.62	19.5	0						
5	256QAM	1	0	17.60	17.61	17.60								
5	256QAM	1	12	17.60	17.71	17.69								
5														



Band 38 Main PA Ant3 DS10												
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)												
20	QPSK	1	0	20.90	21.22	21.10	22.5	0				
20	QPSK	1	49	20.94	21.05	20.94						
20	QPSK	1	99	20.98	21.04	20.78						
20	QPSK	50	0	20.94	21.12	20.89	22.5	0				
20	QPSK	50	24	20.96	20.93	20.97						
20	QPSK	100	0	20.96	21.09	20.83						
20	16QAM	1	0	20.82	21.06	20.91	22.5	0				
20	16QAM	1	49	20.92	20.93	20.94						
20	16QAM	1	99	20.72	20.80	20.70						
20	16QAM	50	0	21.08	21.15	21.08	22.5	0				
20	16QAM	50	24	20.94	21.07	20.98						
20	16QAM	50	50	21.00	21.11	21.07						
20	16QAM	100	0	20.97	21.05	20.94	22.5	0				
20	16QAM	100	0	20.75	20.83	20.73						
20	16QAM	1	49	20.70	20.77	20.88						
20	16QAM	1	99	20.51	20.73	20.88	21.5	1				
20	16QAM	50	0	20.94	20.17	20.05						
20	16QAM	50	24	19.95	20.08	20.02						
20	16QAM	50	50	20.10	20.13	20.02	19.5	3				
20	16QAM	100	0	19.94	20.05	20.02						
20	25QAM	1	0	17.84	17.87	17.83						
20	25QAM	1	49	17.86	17.84	17.79	19.5	3				
20	25QAM	1	99	17.79	17.89	17.76						
20	25QAM	10	0	17.88	18.16	17.88						
20	25QAM	50	24	17.08	18.08	17.96	19.5	3				
20	25QAM	50	50	18.09	18.14	18.09						
20	25QAM	100	0	17.88	17.94	17.84						
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.70	21.04	21.00	22.5	0				
15	QPSK	1	37	20.79	20.90	20.81						
15	QPSK	1	74	20.81	20.97	20.78						
15	QPSK	36	0	20.91	20.97	20.78	22.5	0				
15	QPSK	36	20	20.75	20.85	20.87						
15	QPSK	75	0	20.75	21.00	20.83						
15	16QAM	1	0	20.73	21.07	20.94	22.5	0				
15	16QAM	1	37	20.81	20.91	20.74						
15	16QAM	1	74	20.89	20.77	20.87						
15	16QAM	36	0	21.07	21.06	20.90	22.5	0				
15	16QAM	36	20	20.72	20.87	20.88						
15	16QAM	36	36	20.94	21.07	20.86						
15	16QAM	75	0	20.85	20.89	20.87	22.5	0				
15	16QAM	1	0	20.75	20.84	20.52						
15	16QAM	1	37	20.88	20.58	20.94						
15	16QAM	1	74	20.91	20.81	20.81	21.5	1				
15	16QAM	36	0	19.96	20.02	19.92						
15	16QAM	36	20	19.87	20.04	19.93						
15	16QAM	36	36	20.82	20.82	20.82	19.5	3				
15	16QAM	75	0	19.94	19.94	19.90						
15	25QAM	1	0	17.73	17.82	17.84						
15	25QAM	1	37	17.73	17.87	17.75	19.5	3				
15	25QAM	1	74	17.89	17.81	17.85						
15	25QAM	36	0	18.02	18.06	17.93						
15	25QAM	36	20	17.80	17.99	17.82	19.5	3				
15	25QAM	36	36	18.04	18.01	18.02						
15	25QAM	75	0	17.82	17.96	17.88						
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.70	21.04	21.00	22.5	0				
10	QPSK	1	25	20.78	21.02	20.93						
10	QPSK	1	49	20.99	20.80	20.70						
10	QPSK	10	0	20.94	20.95	20.76	22.5	0				
10	QPSK	25	12	20.81	20.78	20.80						
10	QPSK	25	25	20.72	20.95	20.71						
10	16QAM	1	0	20.70	20.93	20.74	22.5	0				
10	16QAM	1	25	20.93	20.84	20.87						
10	16QAM	1	49	20.72	20.80	20.66						
10	16QAM	25	0	21.09	21.16	21.09	22.5	0				
10	16QAM	25	19	20.84	20.80	20.82						
10	16QAM	25	25	20.92	21.04	20.92						
10	16QAM	50	0	20.78	21.05	20.83	22.5	0				
10	16QAM	50	0	20.73	20.72	20.53						
10	16QAM	1	25	20.94	20.74	20.53						
10	16QAM	1	49	20.82	20.51	20.69	21.5	1				
10	16QAM	25	0	19.97	20.14	19.97						
10	16QAM	25	12	19.91	20.00	19.96						
10	16QAM	25	25	20.86	20.07	19.95	19.5	3				
10	16QAM	50	0	19.81	20.01	19.92						
10	25QAM	1	0	17.76	17.85	17.81						
10	25QAM	1	25	17.73	17.83	17.73	19.5	3				
10	25QAM	1	49	17.76	17.82	17.83						
10	25QAM	25	0	17.99	18.02	17.93						
10	25QAM	25	12	17.96	18.00	17.96	19.5	3				
10	25QAM	25	25	17.97	18.02	17.98						
10	25QAM	50	0	17.86	17.97	17.82						
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.74	21.06	20.90	22.5	0				
5	QPSK	1	19	20.80	20.05	20.83						
5	QPSK	1	24	20.83	21.02	20.87						
5	QPSK	12	0	20.71	20.94	20.71	22.5	0				
5	QPSK	12	7	20.97	20.82	20.94						
5	QPSK	12	19	20.83	20.90	20.72						
5	16QAM	1	0	20.79	21.03	20.91	22.5	0				
5	16QAM	1	12	20.82	20.74	20.79						
5	16QAM	1	24	20.68	20.60	20.76						
5	16QAM	12	0	21.08	21.16	21.04	22.5	0				
5	16QAM	12	7	20.85	21.07	20.91						
5	16QAM	12	13	21.02	21.02	21.00						
5	16QAM	25	0	20.94	21.06	20.85	22.5	0				
5	16QAM	1	0	20.81	20.72	20.81						
5	16QAM	1	12	20.80	20.68	20.50						
5	16QAM	1	24	20.56	20.74	20.65	21.5	1				
5	16QAM	12	0	19.96	20.09	19.93						
5	16QAM	12	7	19.81	19.98	19.88						
5	16QAM	12	13	20.07	20.10	19.91	19.5	3				
5	16QAM	25	0	19.93	19.94	19.92						
5	25QAM	1	0	17.80	17.88	17.79						
5	25QAM	1	12	17.79	17.81	17.70	19.5	3				
5	25QAM	1	24	17.74	17.82	17.83						
5	25QAM	12	0	18.00	18.14	17.92						
5	25QAM	12	7	17.94	18.02	17.86	19.5	3				
5	25QAM	12	13	17.97	18.11	18.03						
5	25QAM	25	0	17.82	17.94	17.86						

Band 41 Main PA Ant3 DS10											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	21.15	21.20	21.23	21.24	21.92		22.5	0
20	QPSK	1	49	21.00	21.10	21.26	21.00	21.07			
20	QPSK	1	99	21.14	20.92	21.09	21.13	21.16			
20	QPSK	50	0	21.05	21.09	21.27	21.05	21.10		22.5	0
20	QPSK	50	24	20.97	21.07	21.20	21.18	21.08			
20	QPSK	100	0	21.00	20.98	21.01	21.00	20.96			
20	16QAM	1	0	20.97	20.98	20.97	20.99	20.80		22.5	0
20	16QAM	1	49	21.05	20.98	21.00	21.00	20.76			
20	16QAM	1	99	20.95	20.87	20.89	21.00	20.77			
20	16QAM	50	0	21.17	21.24	21.26	21.23	21.11		22.5	0
20	16QAM	50	24	21.07	21.09	21.21	21.19	21.08			
20	16QAM	50	50	21.17	21.11	21.27	21.19	21.08			
20	64QAM	1	0	21.06	21.08	21.13	21.07	20.86		22.5	0
20	64QAM	1	49	20.98	20.86	20.88	20.99	20.74			
20	64QAM	1	99	20.71	20.78	20.85	20.84	20.70			
20	64QAM	50	0	20.78	20.82	20.87	20.83	20.76		22.5	0
20	64QAM	50	24	20.85	20.77	20.85	20.85	20.70			
20	64QAM	50	50	20.78	20.72	20.85	20.76	20.70			
20	64QAM	100	0	20.67	20.63	20.71	20.66	20.58		21.5	1
20	64QAM	100	24	20.68	20.69	20.71	20.71	20.59			
20	64QAM	100	50	20.69	20.77	20.72	20.72	20.59			
20	256QAM	1	0	18.06	17.94	18.00	18.03	17.98		19.5	3
20	256QAM	1	49	17.90	18.00	18.03	17.97	17.89			
20	256QAM	1	99	17.80	17.82	18.02	17.88	17.90			
20	256QAM	50	0	18.28	18.14	18.20	18.21	18.14		19.5	3
20	256QAM	50	24	18.11	18.06	18.20	18.05	18.11			
20	256QAM	50	50	18.22	18.17	18.21	18.14	18.05			
20	256QAM	100	0	18.06	18.03	18.10	18.04	18.01		22.5	0
Channel											
Frequency (MHz)											
15	QPSK	1	0	20.93	21.03	21.07	21.07	21.14		22.5	0
15	QPSK	1	37	20.90	20.97	21.14	20.90	20.96			
15	QPSK	1	74	21.10	20.94	21.06	21.10	20.96			
15	QPSK	50	0	21.05	21.09	21.27	21.05	21.10		22.5	0
15	QPSK	50	24	20.76	20.99	21.07	21.20	21.01			
15	QPSK	100	0	20.93	20.78	20.82	20.93	20.76			
15	16QAM	1	0	21.02	21.01	21.01	20.98	20.76		22.5	0
15	16QAM	1	37	20.75	20.60	20.74	20.86	20.67			
15	16QAM	1	74	20.90	20.75	20.87	20.83	20.76			
15	16QAM	50	0	21.09	21.06	21.15	21.22	20.93		22.5	0
15	16QAM	50	24	21.03	20.92	21.06	21.07	20.98			
15	16QAM	50	39	21.08	20.91	21.19	21.06	21.02			
15	64QAM	1	0	20.92	21.00	21.02	20.97	20.76		22.5	0
15	64QAM	1	37	20.71	20.67	20.80	20.77	20.81			
15	64QAM	1	74	20.93	20.86	20.75	20.77	20.83			
15	64QAM	50	0	20.73	20.70	20.82	20.79	20.68		22.5	0
15	64QAM	50	24	20.68	20.65	20.77	20.80	20.62			
15	64QAM	50	39	20.62	20.61	20.77	20.87	20.60			
15	256QAM	1	0	18.04	18.01	18.17	17.97	18.00		21.5	1
15	256QAM	1	37	18.05	18.04	18.04	18.05	17.99			
15	256QAM	1	74	17.99	17.94	18.04	17.95	17.94			
15	256QAM	50	0	18.06	18.04	18.04	18.05	17.98		19.5	3
15	256QAM	50	24	17.78	17.88	17.87	17.97	17.83			
15	256QAM	50	39	18.06	18.06	18.06	18.06	18.03			
15	256QAM	100	0	18.05	18.04	18.05	18.05	18.06		19.5	3
15	256QAM	100	24	17.98	17.98	17.99	17.93	17.96			
15	256QAM	100	39	17.99	17.98	17.99	17.93	17.96			
Channel											
Frequency (MHz)											
10	QPSK	1	0	20.91	21.07	21.13	21.09	21.03		23	0
10	QPSK	1	25	20.84	21.10	21.23	20.93	20.08			
10	QPSK	1	50	21.07	21.01	21.13	21.07	21.06			
10	QPSK	25	0	20.95	20.92	21.19	21.03	21.03		22.5	0
10	QPSK	25	12	20.82	21.06	21.08	21.07	21.02			
10	QPSK	50	0	20.90	20.88	21.12	20.95	20.82			
10	16QAM	1	0	20.77	20.97	20.76	20.92	20.82		22.5	0
10	16QAM	1	25	20.88	20.65	20.89	20.90	20.74			
10	16QAM	1	50	20.96	20.86	20.82	20.91	20.84			
10	16QAM	25	0	21.03	21.21	21.13	21.11	21.07		22.5	0
10	16QAM	25	12	20.91	20.98	21.19	21.06	20.97			
10	16QAM	25	39	21.06	20.95	21.13	21.17	21.07			
10	64QAM	1	0	20.91	20.95	21.07	21.07	20.85		22.5	0
10	64QAM	1	25	20.65	20.79	20.89	20.84	20.65			
10	64QAM	1	50	20.63	20.69	20.77	20.76	20.54			
10	64QAM	25	0	20.78	20.69	20.77	20.78	20.64		21.5	1
10	64QAM	25	0	20.69	20.67	20.74	20.66	20.51			
10	64QAM	25	12	20.62	20.69	20.17	20.96	20.58			
10	64QAM	25	39	20.64	20.19	20.64	20.91	20.24		19.5	3
10	64QAM	25	50	20.60	20.92	20.62	20.90	20.68			
10	256QAM	1	0	17.60	17.78	17.88	17.69	17.67			
10	256QAM	1	25	17.77	17.96	17.92	17.83	17.84		19.5	3
10	256QAM	1	49	17.95	17.78	17.80	17.80	17.76			
10	256QAM	1	99	18.22	18.06	18.07	18.07	17.99			
10	256QAM	50	0	17.69	17.83	18.13	17.91	18.03		19.5	3
10	256QAM	50	24	17.69	17.83	18.06	18.06	17.95			
10	256QAM	50	50	17.69	17.92	18.00	18.00	17.92			
Channel											
Frequency (MHz)											
5	QPSK	1	0	20.90	21.06	21.07	21.07	21.13		23	0
5	QPSK	1	12	20.88	20.99	21.23	20.83	20.64			
5	QPSK	1	24	21.04	20.94	21.19	21.03	20.87			
5	QPSK	12	0	20.85	20.91	21.19	21.08	21.12		22.5	0
5	QPSK	12	7	20.97	20.90	21.05	21.02	20.92			
5	QPSK	25	0	20.86	20.75	21.09	20.93	20.73			
5	QPSK	25	0	20.93	21.03	21.03	20.98	20.87		22.5	0
5	QPSK	25	1	20.79	20.85	20.87	20.97	20.84			
5	16QAM	1	0	20.89	20.93	21.05	20.97	20.84			
5	16QAM	1	12	20.91	20.83	21.05	20.97	20.84		22.5	0
5	16QAM	1	24	20.85	20.65	20.50	20.95	20.70			
5	16QAM	12	7	21.07	20.91	21.06	21.09	21.07			
5	16QAM	12	13	21.03	21.03	21.06	21.05	20.96		22.5	0
5	16QAM	12	25	20.80	20.83	20.98	20.80	20.84			
5	64QAM	1	0	20.68	20.68	20.80	20.86	20.58			
5	64QAM	1	12	20.46	20.68	20.80	20.86	20.58		21.5	1
5	64QAM	1	24	20.67	20.68	20.80	20.86	20.58			
5	64QAM	12	13	20.67	20.68	20.80	20.86	20.58			
5	256QAM	1	0	19.97	19.95	20.05	19.98	19.89		19.5	3
5	256QAM	1	12	17.84	17.86	17.92	17.84	17.89			
5	256QAM	1	24	17.84	17.82	17.84	17.74	17.75			
5	256QAM	12	13	18.22	18.24	18.20	17.96	17.76		19.5	3
5	256QAM	12	25	18.02	18.02	18.02	17.99	17.99			
5	256QAM	12	7	17.99	17.83	18.14	17.87	18.00			
5	256QAM	12	7	18.08	18.09	18.16	18.01	17.97		19.5	3
5	256QAM	12	13	18.08	18.09	18.09	18.03	17.90			
5	256QAM	12	25	18.08	18.09	18.09	18.03	17.90			

Band 2 Main PA Ant4 DS10												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	19.41	19.43	19.38	20.5	0				
20	QPSK	1	49	19.41	19.22	19.38						
20	QPSK	1	99	19.27	19.25	19.18						
20	QPSK	50	0	19.36	19.42	19.36						
20	QPSK	50	24	19.30	19.34	19.24						
20	QPSK	50	50	19.16	19.31	19.23						
20	QPSK	100	0	19.33	19.37	19.28						
20	16QAM	100	0	19.32	19.30	19.28						
20	16QAM	1	49	19.17	19.16	19.14	20.5	0				
20	16QAM	1	99	19.28	19.15	19.10						
20	16QAM	50	0	19.35	19.40	19.28						
20	16QAM	50	24	19.17	19.32	19.27	20.5	0				
20	16QAM	50	50	19.29	19.36	19.26						
20	16QAM	100	0	19.24	19.30	19.22						
20	64QAM	1	0	19.39	19.32	19.41	20.5	0				
20	64QAM	1	49	19.43	19.46	19.39						
20	64QAM	50	0	19.43	19.45	19.31						
20	64QAM	50	24	19.29	19.38	19.31	20.5	0				
20	64QAM	50	50	19.35	19.43	19.36						
20	64QAM	100	0	19.22	19.35	19.30						
20	256QAM	1	49	19.40	19.47	19.33	19.5	1				
20	256QAM	1	99	19.36	19.45	19.31						
20	256QAM	1	59	19.34	19.42	19.33						
20	256QAM	50	24	19.31	19.35	19.24	19.5	1				
20	256QAM	50	50	19.30	19.40	19.34						
20	256QAM	100	0	19.27	19.34	19.27						
Channel												
Frequency (MHz)												
16	QPSK	1	37	19.31	19.25	19.23	20.5	0				
16	QPSK	1	37	19.14	19.33	19.27						
16	QPSK	1	74	19.19	19.19	19.23						
16	QPSK	36	0	19.30	19.32	19.31	20.5	0				
16	QPSK	36	39	19.18	19.26	19.20						
16	QPSK	36	39	19.11	19.22	19.19						
16	QPSK	75	0	19.19	19.25	19.19	20.5	0				
16	QPSK	75	0	19.14	19.14	19.16						
16	16QAM	1	37	19.10	19.10	19.22	20.5	0				
16	16QAM	1	74	19.24	19.28	19.16						
16	16QAM	36	0	19.20	19.30	19.16	20.5	0				
16	16QAM	36	20	19.13	19.26	19.12						
16	16QAM	75	0	19.19	19.25	19.07	20.5	0				
16	16QAM	75	0	19.35	19.46	19.28						
16	64QAM	1	37	19.29	19.37	19.26	20.5	0				
16	64QAM	1	74	19.29	19.35	19.23						
16	64QAM	36	0	19.36	19.35	19.33	20.5	0				
16	64QAM	36	20	19.26	19.36	19.28						
16	64QAM	75	0	19.32	19.35	19.25	19.5	1				
16	64QAM	75	0	19.12	19.21	19.15						
16	256QAM	1	37	19.27	19.30	19.19	19.5	1				
16	256QAM	1	74	19.30	19.39	19.19						
16	256QAM	36	20	19.18	19.25	19.11	19.5	1				
16	256QAM	36	39	19.17	19.34	19.27						
16	256QAM	75	0	19.24	19.27	19.27						
Channel												
Frequency (MHz)												
10	QPSK	1	25	19.12	19.26	19.16	20.5	0				
10	QPSK	1	49	19.24	19.26	19.26						
10	QPSK	25	12	19.17	19.28	19.19	20.5	0				
10	QPSK	25	25	19.07	19.26	19.13						
10	QPSK	50	0	19.08	19.19	19.10	20.5	0				
10	QPSK	50	0	19.08	19.19	19.10						
10	16QAM	1	25	19.12	19.16	19.16	20.5	0				
10	16QAM	1	49	19.26	19.26	19.26						
10	16QAM	25	0	19.27	19.25	19.19	20.5	0				
10	16QAM	25	12	19.09	19.23	19.15						
10	16QAM	50	0	19.15	19.23	19.15	20.5	0				
10	16QAM	50	0	19.17	19.16	19.15						
10	64QAM	1	24	19.27	19.43	19.33	20.5	0				
10	64QAM	1	49	19.24	19.28	19.27						
10	64QAM	25	0	19.35	19.43	19.36	20.5	0				
10	64QAM	25	12	19.26	19.38	19.25						
10	64QAM	50	0	19.26	19.36	19.29	19.5	1				
10	64QAM	50	0	19.09	19.22	19.23						
10	256QAM	1	24	19.34	19.44	19.34	19.5	1				
10	256QAM	1	25	19.32	19.42	19.32						
10	256QAM	1	49	19.24	19.33	19.25	19.5	1				
10	256QAM	1	50	19.30	19.32	19.28						
10	256QAM	25	0	19.30	19.32	19.28	19.5	1				
10	256QAM	25	12	19.26	19.26	19.16						
10	256QAM	25	25	19.22	19.26	19.19	19.5	1				
10	256QAM	50	0	19.23	19.34	19.31						
Channel												
Frequency (MHz)												
5	QPSK	1	0	19.26	19.26	19.26	20.5	0				
5	QPSK	1	12	19.31	19.15	19.22						
5	QPSK	1	24	19.23	19.15	19.13	20.5	0				
5	QPSK	12	0	19.33	19.33	19.36						
5	QPSK	12	7	19.21	19.26	19.19	20.5	0				
5	QPSK	12	13	19.08	19.19	19.15						
5	QPSK	25	0	19.26	19.26	19.26	20.5	0				
5	QPSK	25	0	19.19	19.32	19.05						
5	16QAM	1	12	19.05	19.17	19.07	20.5	0				
5	16QAM	1	24	19.20	19.26	19.26						
5	16QAM	12	0	19.20	19.28	19.18	20.5	0				
5	16QAM	12	7	19.03	19.24	19.13						
5	16QAM	12	13	19.24	19.31	19.14	20.5	0				
5	16QAM	25	0	19.14	19.21	19.12						
5	64QAM	1	0	19.26	19.40	19.30	20.5	0				
5	64QAM	1	12	19.37	19.42	19.33						
5	64QAM	1	24	19.24	19.30	19.21	20.5	0				
5	64QAM	12	0	19.29	19.36	19.35						
5	64QAM	12	7	19.17	19.35	19.18	20.5	0				
5	64QAM	12	13	19.25	19.31	19.33						
5	64QAM	25	0	19.14	19.21	19.17	19.5	1				
5	64QAM	25	0	19.37	19.41	19.31						
5	256QAM	1	12	19.32	19.39	19.19	19.5	1				
5	256QAM	1	24	19.27	19.28	19.23						
5	256QAM	12	0	19.26	19.31	19.26	19.5	1				
5	256QAM	12	7	19.19	19.28	19.11						
5	256QAM	12	13	19.40	19.21	19.22	19.5	1				
5	256QAM	25	0	19.16	19.26	19.23						
Channel												
Frequency (MHz)												
3	QPSK	1	0	19.25	19.37	19.25	20.5	0				
3	QPSK	1	8	19.23	19.32	19.13						
3	QPSK	1	14	19.30	19.16	19.25	20.5	0				
3	QPSK	8	0	19.21	19.33	19.26						
3	QPSK	8	4	19.23	19.31	19.14	20.5	0				
3	QPSK	8	7	19.10	19.19	19.20						
3	QPSK	15	0	19.22	19.27	19.16	20.5	0				
3	16QAM	1	0	19.30	19.36	19.23						
3	16QAM	1	8	19.10	19.35	19.13	20.5	0				
3	16QAM	1	14	19.2	19.35	19.27						
3	16QAM	8	0	19.26	19.33	19.26	20.5	0				
3	16QAM	8	4	19.29	19.34	19.24						
3	16QAM	8	7	19.15	19.24	19.12	20.5	0				
3	16QAM	15	0	19.21	19.31	19.27						
3	16QAM	15	0	19.29	19.45	19.32	20.5	0				
3	16QAM	15	8	19.28	19.39	19.36						
3	16QAM	15	14	19.29	19.38	19.32	20.5	0				
3	16QAM	15	8	19.38	19.41	19.34						
3	64QAM	1	0	19.29	19.34	19.24	20.5	0				
3	64QAM	1	8	19.33	19.33	19.33						
3	64QAM	15	0	19.11	19.31	19.27	20.5	0				
3	256QAM	1	0	19.32	19.40	19.26						
3	256QAM	1	8	19.29	19.39	19.29	19.5	1				
3	256QAM	1	14	19.39	19.32	19.20						
3	256QAM	8	0	19.29	19.32	19.26	19.5	1				
3	256QAM	8	7	19.19	19.29	19.20						
3	256QAM	15	0	19.16	19.35	19.21	19.5	1				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	19.09	19.16	19.02				20.5	0	
1.4	QPSK	1	8	19.04	19.25	19.13						
1.4	QPSK	1	0	19.06	19.20	19.17	20.5	0				
1.4	QPSK	3	0	19.17	19.13	19.13						
1.4	QPSK	1	0	19.08	19.13	19.08	20.5	0				
1.4	QPSK	3	0	19.20	19.23	19.20						
1.4	QPSK	3	0	19.20	19.23	19.20	20.5	0				
1.4	QPSK	3	8	19.22	19.21	19.17						
1.4	QPSK	3	8	19.24	19.29	19.27	20.5	0				
1.4	QPSK	3	16	19.26	19.34	19.31						
1.4	QPSK	3	8	19.28	19.32	19.27	20.5	0				
1.4	QPSK	3	16	19.30	19.38	19.35						
1.4	QPSK	3	8	19.32	19.36	19.32	20.5	0				
1.4	QPSK	3	16	19.34	19.40	19.37						
1.4	QPSK	3	8	19.38	19.42	19.37	20.5	0				
1.4	QPSK	3	16	19.40	19.46	19.43						
1.4	QPSK	3	8	19.44	19.48	19.44	20.5	0				
1.4	QPSK	3	16	19.46	19.52	19.49						
1.4	QPSK	3	8	19.50	19.54	19.51	20.5	0				
1.4	QPSK	3	16	19.52	19.58	19.55						
1.4	QPSK	3	8	19.56	19.60	19.57	20.5	0				
1.4	QPSK	3	16	19.58	19.62	19.59						
1.4	QPSK	3	8	19.62	19.66	19.63	20.5	0				
1.4	QPSK	3	16	19.64	19.68	19.65						
1.4	QPSK	3	8	19.68	19.72	19.69	20.5	0				
1.4	QPSK	3	16	19.70	19.74	19.71						
1.4	QPSK	3	8	19.74	19.78	19.75	20.5	0				
1.4	QPSK	3	16	19.76	19.80	19.77						
1.4	QPSK	3	8	19.80								

Band 25 Main PA Ant4												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up (ms)	MPR (dB)				
Channel												
1800 1880 1900												
20	QPSK	1	0	23.31	23.42	23.27	24.5	0				
20	QPSK	1	49	23.29	23.34	23.24						
20	QPSK	1	99	23.16	23.29	23.21						
20	QPSK	50	0	22.24	22.36	22.20						
20	QPSK	50	24	22.22	22.29	22.21	23.5	1				
20	QPSK	50	50	22.16	22.24	22.12						
20	QPSK	100	0	22.16	22.25	22.20						
20	16QAM	1	0	22.65	22.66	22.66						
20	16QAM	1	49	22.48	22.59	22.47	23.5	1				
20	16QAM	1	99	22.52	22.55	22.43						
20	16QAM	50	0	21.31	21.39	21.28						
20	16QAM	50	24	21.19	21.28	21.15						
20	16QAM	50	50	21.18	21.21	21.22	22.5	2				
20	16QAM	100	0	21.19	21.29	21.19						
20	64QAM	1	0	21.44	21.51	21.47						
20	64QAM	1	49	21.31	21.45	21.39						
20	64QAM	1	99	21.27	21.41	21.28	22.5	2				
20	64QAM	50	0	20.31	20.42	20.32						
20	64QAM	50	24	20.19	20.23	20.22						
20	64QAM	50	50	20.28	20.38	20.25						
20	256QAM	1	0	18.45	18.50	18.38	19.5	5				
20	256QAM	1	49	18.40	18.45	18.42						
20	256QAM	1	99	18.38	18.42	18.32						
20	256QAM	50	0	18.28	18.41	18.28						
20	256QAM	50	24	18.27	18.31	18.18						
20	256QAM	50	50	18.25	18.37	18.33						
20	256QAM	100	0	18.23	18.36	18.32						
Channel												
1807.5 1880 1907.5												
15	QPSK	1	0	23.20	23.36	23.13	24.5	0				
15	QPSK	1	37	23.20	23.30	23.20						
15	QPSK	1	74	23.07	23.16	23.17						
15	QPSK	36	0	22.13	22.26	22.07						
15	QPSK	36	20	22.15	22.15	22.07	23.5	1				
15	QPSK	36	39	22.12	22.09	22.06						
15	QPSK	75	0	22.09	22.15	22.08						
15	16QAM	1	0	22.45	22.54	22.49						
15	16QAM	1	37	22.38	22.55	22.33	23.5	1				
15	16QAM	1	74	22.43	22.47	22.43						
15	16QAM	36	0	21.18	21.22	21.23						
15	16QAM	36	20	21.13	21.18	21.08						
15	16QAM	50	0	21.04	21.12	21.09	22.5	2				
15	64QAM	1	0	21.32	21.42	21.41						
15	64QAM	1	37	21.35	21.47	21.47						
15	64QAM	1	74	21.17	21.20	21.19						
15	64QAM	36	0	20.20	20.36	20.17	21.5	3				
15	64QAM	36	20	20.20	20.27	20.17						
15	64QAM	36	39	20.22	20.25	20.19						
15	64QAM	75	0	20.22	20.23	20.16						
15	256QAM	1	0	18.34	18.46	18.34	19.5	5				
15	256QAM	1	37	18.34	18.32	18.29						
15	256QAM	1	74	18.29	18.36	18.22						
15	256QAM	36	0	18.18	18.38	18.22						
15	256QAM	36	20	18.13	18.25	18.11	19.5	5				
15	256QAM	36	39	18.15	18.32	18.26						
15	256QAM	75	0	18.13	18.26	18.28						
Channel												
1809.5 1880 1909.5												
10	QPSK	1	0	23.27	23.30	23.15	24.5	0				
10	QPSK	1	25	23.17	23.24	23.20						
10	QPSK	1	49	23.10	23.18	23.09						
10	QPSK	25	12	22.16	22.19	22.07						
10	QPSK	25	19	22.04	22.11	22.01	23.5	1				
10	QPSK	50	0	22.12	22.15	22.05						
10	16QAM	1	0	22.42	22.50	22.47						
10	16QAM	1	25	22.34	22.50	22.42						
10	16QAM	1	49	22.45	22.49	22.36	23.5	1				
10	16QAM	25	0	21.22	21.29	21.19						
10	16QAM	25	12	21.14	21.17	21.08						
10	16QAM	50	0	21.05	21.10	21.15						
10	64QAM	1	0	21.08	21.18	21.07	22.5	2				
10	64QAM	1	0	21.32	21.36	21.44						
10	64QAM	1	25	21.35	21.38	21.38						
10	64QAM	1	49	21.17	21.34	21.18						
10	64QAM	25	0	20.24	20.30	20.29	21.5	3				
10	64QAM	25	12	20.05	20.30	20.18						
10	64QAM	25	25	20.23	20.30	20.20						
10	64QAM	50	0	20.20	20.22	20.20						
10	256QAM	1	0	18.40	18.43	18.33	19.5	5				
10	256QAM	1	25	18.36	18.39	18.33						
10	256QAM	1	49	18.30	18.35	18.27						
10	256QAM	25	0	18.21	18.25	18.21						
10	256QAM	25	12	18.20	18.20	18.14	19.5	5				
10	256QAM	25	25	18.11	18.25	18.20						
10	256QAM	50	0	18.20	18.21	18.24						
Channel												
1809.5 1880 1909.5												
5	QPSK	1	0	23.24	23.31	23.19	24.5	0				
5	QPSK	1	12	23.18	23.20	23.15						
5	QPSK	1	24	23.02	23.15	23.14						
5	QPSK	12	0	22.13	22.28	22.12						
5	QPSK	12	7	22.09	22.21	22.16	23.5	1				
5	QPSK	12	13	22.08	22.14	22.09						
5	QPSK	25	0	22.05	22.21	22.18						
5	16QAM	1	0	22.47	22.51	22.45						
5	16QAM	1	12	22.43	22.44	22.43	23.5	1				
5	16QAM	1	24	22.37	22.45	22.33						
5	16QAM	12	0	21.17	21.33	21.24						
5	16QAM	12	7	21.07	21.24	21.07						
5	16QAM	12	13	21.09	21.27	21.09	22.5	2				
5	64QAM	1	0	21.39	21.43	21.32						
5	64QAM	1	12	21.20	21.33	21.30						
5	64QAM	1	24	21.18	21.28	21.17						
5	64QAM	12	0	20.17	20.31	20.20	21.5	3				
5	64QAM	12	7	20.08	20.30	20.13						
5	64QAM	12	13	20.20	20.30	20.20						
5	64QAM	25	0	20.19	20.16	20.21						
5	256QAM	1	0	18.31	18.39	18.33	19.5	5				
5	256QAM	1	12	18.35	18.37	18.27						
5	256QAM	1	24	18.28	18.28	18.16						
5	256QAM	12	0	18.18	18.32	18.25						
5	256QAM	12	7	18.23	18.20	18.07	19.5	5				
5	256QAM	12	13	18.12	18.32	18.21						
5	256QAM	25	0	18.14	18.30	18.25						
Channel												
1809.5 1880 1909.5												
3	QPSK	1	0	23.24	23.26	23.16	24.5	0				
3	QPSK	1	8	23.18	23.24	23.16						
3	QPSK	1	14	23.03	23.22	23.08						
3	QPSK	8	0	22.16	22.27	22.11						
3	QPSK	8	4	22.12	22.16	22.13	23.5	1				
3	QPSK	8	7	22.05	22.14	22.08						
3	QPSK	15	0	22.02	22.14	22.14						
3	16QAM	1	0	22.50	22.60	22.42						
3	16QAM	1	8	22.38	22.45	22.36	23.5	1				
3	16QAM	1	14	22.44	22.49	22.30						
3	16QAM											



Band 38 Main PA Ant4 DS10												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPP (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	21.26	21.32	21.30	21.7	0				
20	QPSK	1	48	21.10	21.31	21.15						
20	QPSK	1	96	21.09	21.32	21.01						
20	QPSK	50	0	21.09	21.10	21.19						
20	QPSK	50	24	21.16	21.06	21.05	21.7	0				
20	QPSK	50	48	21.10	21.08	21.08						
20	QPSK	100	0	21.04	21.16	20.97						
20	16QAM	1	0	21.21	21.19	21.04						
20	16QAM	1	48	21.01	21.07	20.97	21.7	0				
20	16QAM	1	96	21.05	21.01	20.87						
20	16QAM	50	0	21.08	21.17	21.04						
20	16QAM	50	24	21.14	21.28	21.23						
20	16QAM	50	50	21.19	21.28	21.23	21.7	0				
20	16QAM	100	0	21.09	21.25	21.04						
20	16QAM	100	0	21.15	21.17	21.11						
20	16QAM	1	48	21.04	21.04	21.16						
20	16QAM	1	96	20.95	21.03	20.93	21.7	0				
20	16QAM	50	0	21.13	21.09	21.12						
20	16QAM	50	24	21.09	21.13	21.12						
20	16QAM	50	50	21.16	21.10	21.11						
20	16QAM	100	0	21.16	21.10	20.92	20.7	1				
20	25QAM	1	0	20.23	20.28	20.19						
20	25QAM	1	48	20.11	20.16	20.09						
20	25QAM	1	96	20.00	20.07	19.95						
20	25QAM	50	0	20.07	20.12	20.06	20.7	1				
20	25QAM	50	24	20.05	20.10	20.04						
20	25QAM	50	50	20.14	20.18	20.08						
20	25QAM	100	0	20.05	20.17	20.03						
Channel												
Frequency (MHz)												
15	QPSK	1	0	21.13	21.14	21.23	21.7	0				
15	QPSK	1	37	20.99	21.17	20.99						
15	QPSK	1	74	21.02	21.20	20.81						
15	QPSK	36	0	21.01	20.99	21.13						
15	QPSK	36	20	20.97	20.96	20.96	21.7	0				
15	QPSK	36	36	21.17	21.11	20.98						
15	QPSK	75	0	21.00	20.99	20.87						
15	16QAM	1	0	21.07	20.88	20.82						
15	16QAM	1	37	20.98	21.01	20.78	21.7	0				
15	16QAM	1	74	20.99	20.83	20.73						
15	16QAM	36	0	21.06	21.13	21.06						
15	16QAM	36	20	21.00	21.04	21.01						
15	16QAM	36	36	20.91	21.08	21.24	21.7	0				
15	16QAM	75	0	20.87	21.03	20.91						
15	16QAM	1	0	21.01	21.04	21.05						
15	16QAM	1	37	20.97	21.05	20.88						
15	16QAM	1	74	20.97	20.83	20.82	21.7	0				
15	16QAM	36	0	21.01	21.05	21.05						
15	16QAM	36	20	20.91	21.02	21.02						
15	16QAM	36	36	21.00	20.97	21.06						
15	16QAM	75	0	21.04	20.90	20.82	21.7	0				
15	25QAM	1	0	20.14	20.14	20.05						
15	25QAM	1	37	19.98	19.93	19.86						
15	25QAM	1	74	19.96	19.96	19.82						
15	25QAM	36	0	19.99	20.02	19.97	20.7	1				
15	25QAM	36	20	19.89	19.99	19.97						
15	25QAM	36	36	20.01	20.05	19.99						
15	25QAM	75	0	19.99	20.13	19.86						
Channel												
Frequency (MHz)												
10	QPSK	1	0	21.10	21.31	21.00	21.7	0				
10	QPSK	1	25	21.11	21.28	21.00						
10	QPSK	1	48	21.02	21.15	20.90						
10	QPSK	25	0	21.03	21.15	21.02						
10	QPSK	25	12	21.17	20.88	20.90	21.7	0				
10	QPSK	25	25	21.03	20.89	21.09						
10	QPSK	1	0	21.06	21.15	21.06						
10	16QAM	1	0	21.00	21.13	20.87						
10	16QAM	1	25	20.84	20.98	20.95	21.7	0				
10	16QAM	1	48	21.02	20.95	20.89						
10	16QAM	25	12	20.96	21.12	21.02						
10	16QAM	25	0	20.99	21.05	20.96						
10	16QAM	25	12	20.99	21.10	20.99	21.7	0				
10	16QAM	25	25	20.96	21.12	21.02						
10	16QAM	50	0	20.99	21.05	20.96						
10	16QAM	50	25	20.96	21.12	21.02						
10	16QAM	1	25	21.05	21.01	21.08	21.7	0				
10	16QAM	1	48	20.83	21.01	20.85						
10	16QAM	25	0	20.97	21.03	20.96						
10	16QAM	25	12	21.05	20.97	21.13						
10	16QAM	25	25	21.10	20.81	20.98	21.7	0				
10	16QAM	50	0	20.95	21.08	20.77						
10	25QAM	1	0	20.11	20.11	20.06						
10	25QAM	1	25	19.98	20.02	19.95						
10	25QAM	1	48	19.90	19.92	19.91	20.7	1				
10	25QAM	25	0	19.95	19.99	19.97						
10	25QAM	25	12	19.90	20.00	20.00						
10	25QAM	25	25	20.02	20.14	20.03						
10	25QAM	50	0	19.93	20.13	19.97						
Channel												
Frequency (MHz)												
5	QPSK	1	0	21.17	21.25	21.27	21.7	0				
5	QPSK	1	12	20.96	21.21	20.94						
5	QPSK	1	24	21.05	21.13	21.01						
5	QPSK	12	0	21.07	21.06	21.06						
5	QPSK	12	7	21.01	20.87	20.91	21.7	0				
5	QPSK	12	18	21.05	21.08	20.94						
5	QPSK	25	0	21.01	20.99	20.77						
5	16QAM	1	0	21.01	20.99	21.04						
5	16QAM	1	12	20.91	20.81	20.96	21.7	0				
5	16QAM	1	24	21.04	20.93	20.87						
5	16QAM	12	0	20.94	21.15	20.88						
5	16QAM	12	7	21.01	21.25	20.99						
5	16QAM	1	12	21.00	20.92	21.08	21.7	0				
5	16QAM	25	0	20.86	21.05	20.99						
5	16QAM	1	0	21.00	21.02	21.07						
5	16QAM	1	12	21.00	20.92	21.08						
5	16QAM	1	24	21.00	20.96	20.70	21.7	0				
5	16QAM	12	0	20.93	21.10	21.04						
5	16QAM	12	7	21.10	21.07	20.90						
5	16QAM	12	13	20.99	20.92	21.01						
5	16QAM	25	0	20.97	20.97	20.80	21.7	0				
5	16QAM	25	12	20.99	20.92	21.01						
5	25QAM	1	0	20.00	20.23	20.11						
5	25QAM	1	12	19.97	20.12	20.01						
5	25QAM	1	24	19.88	19.84	19.88	20.7	1				
5	25QAM	12	0	19.98	19.98	19.98						
5	25QAM	12	7	19.85	19.88	19.94						
5	25QAM	12	13	20.00	20.09	19.96						

Band 41 Main PA Ant4 DS10											
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Low Noise Ch / Freq	Power Ch / Freq	Power Noise Ch / Freq	Power Ch / Freq	Power Ch / Freq	Tune-up limit (dBm)	MPE (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	21.16	21.41	21.35	21.30	21.19	21.7	0	
20	QPSK	1	48	21.32	21.13	21.45	21.36	21.11			
20	QPSK	1	96	21.08	21.27	21.22	21.36	21.26			
20	QPSK	50	0	21.30	21.18	21.42	21.09	21.36			
20	QPSK	50	24	21.25	21.17	21.33	21.30	21.16	21.7	0	
20	QPSK	1	48	21.17	21.22	21.22	21.36	21.27			
20	QPSK	1	96	21.15	21.22	21.33	21.32	21.17			
20	QPSK	100	0	21.34	21.31	21.33	21.28	21.39			
20	16QAM	1	0	21.22	21.41	21.32	21.27	21.17	21.7	0	
20	16QAM	1	96	21.35	21.37	21.30	21.25	21.12			
20	16QAM	50	0	21.12	21.15	21.27	21.15	21.24			
20	16QAM	50	24	21.09	21.06	21.29	21.26	21.20			
20	16QAM	50	50	21.12	21.21	21.31	21.21	21.00	21.7	0	
20	16QAM	100	0	21.04	21.01	21.22	21.25	21.04			
20	16QAM	1	48	20.77	20.76	20.86	20.87	20.85			
20	16QAM	1	96	20.80	20.79	20.89	20.90	20.88			
20	64QAM	1	0	21.18	21.23	21.42	21.32	21.17	21.7	0	
20	64QAM	1	48	21.22	21.03	21.15	21.12	21.11			
20	64QAM	50	0	21.16	21.13	21.29	21.23	21.32			
20	64QAM	100	0	21.16	21.18	21.29	21.30	20.99			
20	256QAM	1	0	20.27	20.20	20.32	20.29	20.19	20.7	1	
20	256QAM	1	48	20.23	20.19	20.27	20.29	20.17			
20	256QAM	1	96	20.16	20.17	20.24	20.19	20.17			
20	256QAM	1	144	20.19	20.19	20.26	20.20	20.15			
20	256QAM	1	192	19.95	20.08	20.13	20.05	20.00	20.7	1	
20	256QAM	1	240	20.14	20.13	20.19	20.09	20.14			
20	256QAM	1	288	20.12	20.11	20.18	20.13	20.08			
20	256QAM	1	336	20.12	20.13	20.19	20.09	20.14			
Channel											
Frequency (MHz)											
15	QPSK	1	0	21.24	21.43	21.35	21.34	21.19	21.7	0	
15	QPSK	1	336	21.31	21.13	21.35	21.33	21.19			
15	QPSK	1	744	21.04	21.21	21.22	21.36	21.14			
15	QPSK	50	0	21.18	21.28	21.37	21.32	21.37			
15	QPSK	50	24	21.14	21.08	21.24	21.05	21.14	21.7	0	
15	QPSK	1	48	21.08	21.11	21.22	21.33	21.08			
15	QPSK	1	96	21.25	21.25	21.29	21.12	21.24			
15	QPSK	1	144	21.37	21.25	21.31	21.36	21.31			
15	16QAM	1	0	21.20	21.27	21.42	21.29	21.13	21.7	0	
15	16QAM	1	744	21.36	21.27	21.27	21.33	21.24			
15	16QAM	50	0	21.00	21.04	21.29	21.27	21.34			
15	16QAM	50	24	21.03	21.03	21.29	21.11	21.11			
15	16QAM	56	36	21.13	21.29	21.29	21.14	21.07	21.7	0	
15	16QAM	1	48	20.96	20.96	20.96	20.96	20.96			
15	64QAM	1	0	20.87	20.86	20.94	20.88	20.75			
15	64QAM	1	336	20.71	20.70	20.76	20.68	20.65			
15	64QAM	1	744	20.52	20.50	20.56	20.48	20.45	21.7	0	
15	64QAM	56	0	21.07	21.13	21.45	21.17	21.14			
15	64QAM	56	24	21.20	21.09	21.08	21.05	21.01			
15	64QAM	1	48	21.15	21.15	21.15	21.15	21.15			
15	64QAM	1	96	21.19	21.21	21.11	21.20	20.99	21.7	0	
15	64QAM	1	144	20.92	20.92	20.92	20.92	20.92			
15	256QAM	1	336	20.13	20.13	20.25	20.15	20.10			
15	256QAM	1	744	20.02	20.04	20.09	20.08	20.12			
15	256QAM	1	1152	20.06	20.14	20.09	20.09	20.10	20.7	1	
15	256QAM	1	1536	20.00	20.00	20.00	19.95	19.98			
15	256QAM	56	36	20.07	20.10	20.12	20.05	20.09			
15	256QAM	1	336	20.04	20.06	20.10	20.03	20.04			
Channel											
Frequency (MHz)											
10	QPSK	1	0	21.41	21.41	21.33	21.38	21.19	21.7	0	
10	QPSK	1	288	21.28	21.19	21.33	21.36	20.98			
10	QPSK	1	576	21.13	21.19	21.33	21.36	21.19			
10	QPSK	50	0	21.30	21.19	21.37	21.15	21.26			
10	QPSK	50	12	21.24	21.04	21.33	21.03	21.24	21.7	0	
10	QPSK	1	48	21.00	21.19	21.33	21.36	21.19			
10	QPSK	1	96	21.12	21.21	21.33	21.18	21.28			
10	16QAM	1	0	21.23	21.22	21.31	21.32	21.37			
10	16QAM	1	48	21.15	21.29	21.34	21.34	21.34	21.7	0	
10	16QAM	1	96	21.22	21.22	21.31	21.32	21.32			
10	16QAM	1	144	21.00	21.08	21.29	21.16	21.33			
10	16QAM	25	24	21.22	21.10	21.39	21.14	21.10			
10	64QAM	1	0	20.79	20.83	20.92	20.81	20.81	21.7	0	
10	64QAM	1	288	20.58	20.58	20.74	20.55	20.68			
10	64QAM	1	576	20.41	20.41	20.57	20.38	20.57			
10	64QAM	25	0	21.28	21.23	21.36	21.32	21.67			
10	64QAM	25	12	21.01	20.97	21.18	21.22	21.18	21.7	0	
10	64QAM	1	48	21.06	21.22	21.34	21.37	21.15			
10	64QAM	50	0	21.26	21.15	21.27	21.21	21.00			
10	64QAM	50	12	20.23	20.19	20.30	20.24	20.16			
10	256QAM	1	20	20.10	20.12	20.26	20.15	20.06	20.7	1	
10	256QAM	1	48	20.07	20.11	20.09	20.03	20.10			
10	256QAM	1	96	20.02	20.13	20.04	20.04	20.05			
10	256QAM	25	12	19.95	20.05	20.04	19.96	20.01			
10	256QAM	25	24	20.01	19.98	20.10	20.06	20.02	20.7	1	
10	256QAM	1	48	20.07	20.06	20.07	20.03	20.04			
10	256QAM	1	96	20.02	20.04	20.05	20.01	20.02			
10	256QAM	1	144	20.01	20.04	20.05	20.01	20.02			
Channel											
Frequency (MHz)											
5	QPSK	1	0	21.13	21.34	21.26	21.30	21.22	22	0	
5	QPSK	1	12	21.20	21.02	21.36	21.38	21.13			
5	QPSK	1	24	21.08	21.11	21.27	21.31	21.26			
5	QPSK	12	0	21.25	21.29	21.33	21.31	21.30			
5	QPSK	12	7	21.31	21.24	21.34	20.91	21.16	21.7	0	
5	QPSK	1	48	21.18	21.21	21.27	21.33	21.05			
5	QPSK	25	0	21.22	21.31	21.28	21.12	21.22			
5	QPSK	1	0	21.30	21.19	21.23	21.29	21.32			
5	16QAM	1	0	21.17	21.29	21.31	21.47	21.15	21.7	0	
5	16QAM	1	24	21.37	21.41	21.28	21.30	21.03			
5	16QAM	1	48	21.00	21.06	21.26	21.34	21.14			
5	16QAM	12	0	20.80	20.09	21.23	20.97	21.14			
5	16QAM	12	13	21.03	21.28	21.33	21.14	20.99	21.7	0	
5	64QAM	1	0	20.92	20.78	20.85	20.73	20.59			
5	64QAM	1	12	20.85	20.86	20.80	20.85	20.69			
5	64QAM	1	24	20.80	20.80	20.80	20.80	20.80			
5	64QAM	12	0	21.24	21.21	21.43	21.29	21.09	21.7	0	
5	64QAM	1	7	21.05	21.02	21.16	21.18	21.07			
5	64QAM	12	13	21.23	21.09	21.13	21.17	21.43			
5	64QAM	25	0	21.22	21.25	21.13	21.38	21.88			
5	256QAM	1	0	20.02	20.08	20.10	20.03	20.06	20.7	1	
5	256QAM	1	12	20.18	20.11	20.22	20.20	20.14			
5	256QAM	1	24	20.13	20.09	20.16	20.10	20.07			
5	256QAM	1	36	20.08	20.15	20.09	20.03	20.04			
5	256QAM	12	7	19.90	19.88	20.04	19.90	19.99	20.7	1	
5	256QAM	12	13	20.11	20.02	20.15	19.96	20.00			
5	256QAM	1	48	20.08	20.05	20.05	20.00	20.00			
5	256QAM	1	96	20.08	20.05	20.05	20.00	20.00			



Band 42 FCC Part27Q Main PA Ant5 DSI0													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)					
Channel				42190	42590	42990							
Frequency (MHz)				34145	35000	35445							
20	QPSK	1	0	20.60	20.59	20.54	21	0					
20	QPSK	1	49	20.52	20.58	20.55							
20	QPSK	1	98	20.31	20.60	20.45							
20	QPSK	50	0	20.19	20.47	20.34	21	0					
20	QPSK	50	24	20.06	20.32	20.14							
20	QPSK	50	50	20.07	20.24	20.24							
20	QPSK	100	0	20.15	20.21	20.20	21	0					
20	HQAM	1	0	20.61	20.17	20.21							
20	HQAM	1	49	20.15	20.15	19.96							
20	HQAM	1	99	20.09	20.24	20.08	21	0					
20	HQAM	50	0	20.30	20.33	20.37							
20	HQAM	50	24	20.27	20.35	20.20							
20	HQAM	50	50	20.23	20.44	20.32	21	0					
20	HQAM	100	0	20.28	20.22	20.23							
20	HQAM	100	0	19.95	20.14	20.04							
20	HQAM	1	49	19.88	20.02	20.13	21	0					
20	HQAM	1	99	19.92	19.92	19.92							
20	HQAM	50	0	20.33	20.32	20.28							
20	HQAM	50	24	19.90	20.11	20.10	21	0					
20	HQAM	50	50	20.13	20.07	19.99							
20	HQAM	100	0	19.98	20.02	20.00							
20	25SQAM	1	0	19.76	19.84	19.70	20.5	0.5					
20	25SQAM	1	49	19.87	19.80	19.87							
20	25SQAM	1	99	19.64	19.79	19.73							
20	25SQAM	50	0	19.68	19.82	19.68	20.5	0.5					
20	25SQAM	50	24	19.57	19.63	19.51							
20	25SQAM	50	50	19.64	19.75	19.68							
20	25SQAM	100	0	19.15	19.64	19.57							
Channel				42190	42590	42990							
Frequency (MHz)				34145	35000	35445							
15	QPSK	1	0	20.34	20.52	20.48	21	0					
15	QPSK	1	47	20.38	20.54	20.48							
15	QPSK	1	74	20.30	20.65	20.23							
15	QPSK	36	0	19.96	20.30	20.25	21	0					
15	QPSK	36	20	19.98	20.21	20.09							
15	QPSK	36	36	19.98	20.12	20.07							
15	QPSK	75	0	20.01	20.20	20.07	21	0					
15	HQAM	1	0	19.91	20.11	20.21							
15	HQAM	1	37	19.99	19.92	19.94							
15	HQAM	1	74	19.91	20.17	19.98	21	0					
15	HQAM	36	0	20.09	20.24	20.24							
15	HQAM	36	20	20.02	20.30	20.08							
15	HQAM	36	36	20.07	20.41	20.16	21	0					
15	HQAM	75	0	20.68	20.23	20.13							
15	HQAM	75	0	19.94	20.12	19.89							
15	HQAM	1	27	19.72	19.92	20.13	21	0					
15	HQAM	1	74	19.76	19.76	19.72							
15	HQAM	36	0	20.12	20.14	20.17							
15	HQAM	36	20	19.84	20.09	19.85	21	0					
15	HQAM	36	36	19.84	20.04	19.84							
15	HQAM	75	0	19.97	19.93	20.04							
15	25SQAM	1	0	19.68	19.79	19.68	20.5	0.5					
15	25SQAM	1	37	19.65	19.70	19.63							
15	25SQAM	1	74	19.53	19.69	19.62							
15	25SQAM	36	0	19.65	19.72	19.59	20.5	0.5					
15	25SQAM	36	20	19.49	19.62	19.47							
15	25SQAM	36	36	19.59	19.61	19.58							
15	25SQAM	75	0	19.51	19.63	19.51							
Channel				42190	42590	42990							
Frequency (MHz)				34145	35000	35445							
10	QPSK	1	0	20.28	20.52	20.40	21	0					
10	QPSK	1	25	20.49	20.43	20.40							
10	QPSK	1	49	20.14	20.47	20.39							
10	QPSK	25	0	20.05	20.25	20.21	21	0					
10	QPSK	25	12	19.89	20.24	20.11							
10	QPSK	25	25	19.92	20.02	20.12							
10	QPSK	50	0	20.00	20.14	20.06	21	0					
10	HQAM	1	0	19.83	20.09	20.02							
10	HQAM	1	25	20.13	20.00	19.96							
10	HQAM	1	49	19.97	20.21	19.94	21	0					
10	HQAM	25	0	20.28	20.28	20.26							
10	HQAM	25	12	20.24	20.44	20.00							
10	HQAM	25	25	20.12	20.42	20.25	21	0					
10	HQAM	50	0	20.26	20.19	20.02							
10	HQAM	1	0	19.93	20.10	20.06							
10	HQAM	1	25	19.69	19.93	19.91	21	0					
10	HQAM	1	49	19.94	19.78	19.75							
10	HQAM	25	0	20.27	20.16	20.25							
10	HQAM	25	12	19.85	20.03	19.89	21	0					
10	HQAM	25	25	19.87	20.04	19.92							
10	HQAM	50	0	19.96	19.95	19.90							
10	25SQAM	1	0	19.72	19.80	19.56	20.5	0.5					
10	25SQAM	1	25	19.58	19.73	19.64							
10	25SQAM	1	49	19.51	19.70	19.67							
10	25SQAM	25	0	19.59	19.78	19.69	20.5	0.5					
10	25SQAM	25	12	19.47	19.62	19.47							
10	25SQAM	25	25	19.55	19.63	19.57							
10	25SQAM	50	0	19.49	19.62	19.47							
Channel				42190	42590	42990							
Frequency (MHz)				34145	35000	35445							
5	QPSK	1	0	20.41	20.32	20.46	21	0					
5	QPSK	1	12	20.49	20.37	20.50							
5	QPSK	1	24	20.11	20.51	20.45							
5	QPSK	12	0	20.16	20.38	20.23	21	0					
5	QPSK	12	7	19.95	20.29	19.84							
5	QPSK	12	13	19.94	20.05	19.86							
5	QPSK	25	0	19.92	20.20	20.16	21	0					
5	HQAM	1	0	19.89	20.04	20.05							
5	HQAM	1	12	20.13	19.93	19.85							
5	HQAM	1	24	20.00	20.10	19.90	21	0					
5	HQAM	12	0	20.09	20.28	20.27							
5	HQAM	12	7	20.23	20.36	20.13							
5	HQAM	12	13	20.01	20.40	20.25	21	0					
5	HQAM	25	0	20.16	20.10	20.23							
5	HQAM	1	0	19.87	20.06	19.89							
5	HQAM	1	12	19.89	19.88	19.84	21	0					
5	HQAM	1	24	19.87	19.80	19.90							
5	HQAM	12	0	20.28	20.16	20.08							
5	HQAM	12	7	19.87	20.03	19.80	21	0					
5	HQAM	12	13	19.95	20.07	19.77							
5	HQAM	25	0	19.97	19.91	19.98							
5	25SQAM	1	0	19.64	19.78	19.56	20.5	0.5					
5	25SQAM	1	24	19.60	19.71	19.59							
5	25SQAM	1	49	19.59	19.76	19.76							
5	25SQAM	12	7	19.49	19.68	19.47	20.5	0.5					
5	25SQAM	12	13	19.59	19.60	19.45							
5	25SQAM	25	0	19.49	19.59	19.45							
Channel				42190	42590	42990							
Frequency (MHz)				34145	35000	35445							
5	QPSK	1	0	20.41	20.32	20.46	21				0		
5	QPSK	1	12	20.49	20.37	20.50							
5	QPSK	1	24	20.11	20.51	20.45							
5	QPSK	12	0	20.16	20.38	20.23	21	0					
5	QPSK	12	7	19.95	20.29	19.84							
5	QPSK	12	13	19.94	20.05	19.86							
5	QPSK	25	0	19.92	20.20	20.16	21	0					
5	HQAM	1	0	19.89	20.04	20.05							
5	HQAM	1	12	20.13	19.93	19.85							
5	HQAM	1	24	20.00	20.10	19.90	21	0					
5	HQAM	12	0	20.09	20.28	20.27							
5	HQAM	12	7	20.23	20.36	20.13							
5	HQAM	12	13	20.01	20.40	20.25	21	0					
5	HQAM	25	0	20.16	20.10	20.23							
5	HQAM	1	0	19.87	20.06	19.89							
5	HQAM	1	12	19.89	19.88	19.84	21	0					
5	HQAM	1	24	19.87	19.80	19.90							
5	HQAM	12	0	20.28	20.16	20.08							
5	HQAM	12	7	19.87	20.03	19.80	21	0					
5	HQAM	12	13	19.95	20.07	19.77							
5	HQAM	25	0	19.97	19.91	19.98							
5	25SQAM	1	0	19.64	19.78	19.56	20.5	0.5					
5	25SQAM	1	24	19.60	19.71	19.59							
5	25SQAM	1	49	19.59	19.76	19.76							
5	25SQAM	12	7	19.49	19.68	19.47	20.5	0.5					
5	25SQAM	12	13	19.59	19.60	19.45							
5	25SQAM	25	0	19.49	19.59	19.45							
Channel				42190	42590	42990							
Frequency (MHz)				34145	35000	35445							
5	QPSK	1	0	20.41	20.32	20.46	21				0		
5	QPSK	1	12	20.49	20.37	20.50							
5	QPSK	1	24	20.11	20.51	20.45							
5	QPSK	12	0	20.16	20.38	20.23	21	0					
5	QPSK	12	7	19.95	20.29	19.84							
5	QPSK	12	13	19.94	20.05	19.86							
5	QPSK	25	0	19.92	20.20	20.16	21	0					
5	HQAM	1	0	19.89	20.04	20.05							
5	HQAM	1	12	20.13	19.93	19.85							
5	HQAM	1	24	20.00	20.10	19.90	21	0					
5	HQAM	12	0	20.09	20.28	20.27							
5	HQAM	12	7	20.23	20.36	20.13							
5	HQAM	12	13	20.01	20.40	20.25	21	0					
5	HQAM	25	0	20.16	20.10	20.23							
5	HQAM	1	0	19.87	20.06	19.89							
5	HQAM	1	12	19.89	19.88	19.84	21	0					
5	HQAM	1	24	19.87	19.80	19.90							
5	HQAM	12											



Band 42 FCC Part27Q Main PA Ant6 DSI0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				42190	42590	42990				
Frequency (MHz)				42190	42590	42990				
20	QPSK	1	0	17.84	17.94	17.86	18.5	0		
20	QPSK	1	49	17.87	17.78	17.62				
20	QPSK	1	98	17.74	17.82	17.74				
20	QPSK	50	0	17.83	17.95	17.62	18.5	0		
20	QPSK	50	24	17.85	17.68	17.36				
20	QPSK	50	50	17.87	17.44	17.24				
20	QPSK	100	0	17.82	17.62	17.32	18.5	0		
20	HQAM	1	0	17.88	17.82	17.85				
20	HQAM	1	49	17.28	17.45	17.41				
20	HQAM	1	99	17.25	17.41	17.28	18.5	0		
20	HQAM	50	24	17.89	17.84	17.34				
20	HQAM	50	50	17.82	17.41	17.42				
20	HQAM	50	50	17.89	17.60	17.28	18.5	0		
20	HQAM	100	0	17.83	17.57	17.58				
20	HQAM	1	0	17.27	17.23	17.27				
20	HQAM	1	49	17.28	17.23	17.30	18.5	0		
20	HQAM	1	99	17.23	17.28	17.26				
20	HQAM	50	24	17.28	17.45	17.44	18.5	0		
20	HQAM	50	50	17.23	17.43	17.47				
20	HQAM	100	0	17.32	17.54	17.46				
20	25SQAM	1	0	17.30	17.30	17.30	18.5	0		
20	25SQAM	1	49	17.28	17.30	17.30				
20	25SQAM	1	99	17.32	17.32	17.30				
20	25SQAM	50	24	17.28	17.24	17.24	18.5	0		
20	25SQAM	50	50	17.28	17.27	17.05				
20	25SQAM	50	50	17.29	17.19	17.65				
20	25SQAM	100	0	17.23	17.28	17.15				
Channel				42166	42599	43019	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				42166	42599	43019				
15	QPSK	1	0	17.80	17.80	17.64	18.5	0		
15	QPSK	1	47	17.77	17.66	17.61				
15	QPSK	1	74	17.65	17.66	17.48				
15	QPSK	36	0	17.81	17.45	17.40	18.5	0		
15	QPSK	36	20	17.60	17.41	17.18				
15	QPSK	36	36	17.28	17.41	17.28				
15	QPSK	75	0	17.38	17.64	17.18	18.5	0		
15	HQAM	1	0	17.26	17.47	17.13				
15	HQAM	1	37	17.27	17.41	17.41				
15	HQAM	1	74	17.07	17.38	17.28	18.5	0		
15	HQAM	36	0	17.21	17.49	17.39				
15	HQAM	36	36	17.28	17.28	17.28				
15	HQAM	36	39	17.39	17.62	17.13	18.5	0		
15	HQAM	75	0	17.33	17.52	17.30				
15	HQAM	1	0	17.29	17.15	17.28				
15	HQAM	1	27	17.38	17.04	17.23	18.5	0		
15	HQAM	1	74	16.92	17.23	17.05				
15	HQAM	36	0	17.47	17.35	17.40				
15	HQAM	36	20	17.15	17.33	17.43	18.5	0		
15	HQAM	36	36	17.02	17.45	17.45				
15	HQAM	75	0	17.14	17.44	17.40				
15	25SQAM	1	0	17.09	17.31	17.17	18.5	0		
15	25SQAM	1	37	16.95	17.24	17.12				
15	25SQAM	1	74	16.95	17.22	17.12				
15	25SQAM	36	0	17.21	17.33	17.24	18.5	0		
15	25SQAM	36	20	16.98	17.15	17.07				
15	25SQAM	36	39	17.30	17.14	16.84				
15	25SQAM	75	0	17.12	17.05	17.14				
Channel				42140	42590	43000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				42140	42590	43000				
10	QPSK	1	0	17.83	17.84	17.64	18.5	0		
10	QPSK	1	25	17.77	17.77	17.64				
10	QPSK	1	49	17.73	17.64	17.68				
10	QPSK	25	0	17.81	17.68	17.41	18.5	0		
10	QPSK	25	12	17.55	17.48	17.28				
10	QPSK	25	25	17.48	17.38	17.29				
10	QPSK	50	0	17.87	17.44	17.28	18.5	0		
10	HQAM	1	0	17.39	17.34	17.24				
10	HQAM	1	25	17.28	17.41	17.29				
10	HQAM	1	49	17.20	17.27	17.28	18.5	0		
10	HQAM	25	0	17.27	17.59	17.47				
10	HQAM	25	12	17.28	17.28	17.29				
10	HQAM	25	25	17.29	17.61	17.21	18.5	0		
10	HQAM	50	0	17.27	17.41	17.34				
10	HQAM	1	0	17.14	17.14	17.28				
10	HQAM	1	25	17.11	17.20	17.23	18.5	0		
10	HQAM	1	49	16.85	17.28	17.03				
10	HQAM	25	0	17.48	17.48	17.37				
10	HQAM	25	12	17.15	17.40	17.37	18.5	0		
10	HQAM	25	25	17.33	17.55	17.46				
10	HQAM	50	0	17.18	17.32	17.40				
10	25SQAM	1	0	17.21	17.26	17.18	18.5	0		
10	25SQAM	1	25	17.26	17.06	17.27				
10	25SQAM	1	49	17.01	17.22	17.13				
10	25SQAM	25	0	17.31	17.22	17.21	18.5	0		
10	25SQAM	25	12	16.98	17.15	17.06				
10	25SQAM	25	25	17.09	17.04	17.01				
10	25SQAM	50	0	17.03	17.17	17.16				
Channel				42116	42590	43001	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				42116	42590	43001				
5	QPSK	1	0	17.67	17.67	17.60	18.5	0		
5	QPSK	1	12	17.62	17.65	17.54				
5	QPSK	1	24	17.58	17.65	17.67				
5	QPSK	12	0	17.63	17.56	17.44	18.5	0		
5	QPSK	12	7	17.41	17.55	17.30				
5	QPSK	12	13	17.48	17.39	17.38				
5	QPSK	25	0	17.38	17.62	17.24	18.5	0		
5	HQAM	1	0	17.33	17.33	17.26				
5	HQAM	1	12	17.10	17.38	17.32				
5	HQAM	1	24	17.14	17.38	17.21	18.5	0		
5	HQAM	12	0	17.41	17.57	17.33				
5	HQAM	12	7	17.51	17.31	17.22				
5	HQAM	12	13	17.33	17.41	17.10	18.5	0		
5	HQAM	25	0	17.29	17.51	17.37				
5	HQAM	1	0	17.25	17.35	17.27				
5	HQAM	1	12	17.10	17.15	17.22	18.5	0		
5	HQAM	1	24	16.85	17.21	16.84				
5	HQAM	12	0	17.60	17.61	17.35				
5	HQAM	12	7	17.26	17.47	17.26	18.5	0		
5	HQAM	12	13	17.27	17.63	17.41				
5	HQAM	25	0	17.29	17.49	17.46				
5	25SQAM	1	0	17.18	17.20	17.31	18.5	0		
5	25SQAM	1	12	17.19	17.20	17.28	18.5	0		
5	25SQAM	12	7	16.87	17.20	16.93				
5	25SQAM	12	13	17.24	17.10	16.99				



Band 42 FCC Part27Q Mian PA Ant7												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.52	23.55	23.48	24.5	0				
20	QPSK	1	49	23.52	23.44	23.38						
20	QPSK	1	99	23.38	23.42	23.36						
20	QPSK	50	0	22.45	22.48	22.40	23.5	1				
20	QPSK	50	24	22.37	22.40	22.39						
20	QPSK	50	49	22.43	22.32	22.33						
20	QPSK	100	0	22.28	22.37	22.25	23.5	1				
20	HQAM	1	0	22.28	22.37	22.33						
20	HQAM	1	49	22.30	22.33	22.19						
20	HQAM	1	99	22.13	22.25	22.12	22.5	2				
20	HQAM	50	0	21.40	21.36	21.46						
20	HQAM	50	24	21.32	21.46	21.38						
20	HQAM	50	50	21.34	21.40	21.39	22.5	2				
20	HQAM	100	0	21.21	21.34	21.25						
20	HQAM	100	0	21.25	21.42	21.33						
20	HQAM	1	49	21.37	21.36	21.28	21.5	3				
20	HQAM	1	99	21.15	21.25	21.12						
20	HQAM	50	0	20.41	20.50	20.43						
20	HQAM	50	24	20.35	20.38	20.28	19.5	5				
20	HQAM	50	50	20.32	20.45	20.33						
20	HQAM	100	0	20.26	20.35	20.28						
20	25QAM	1	0	18.24	18.36	18.15	19.5	5				
20	25QAM	1	49	18.27	18.30	18.17						
20	25QAM	1	99	18.24	18.30	18.25						
20	25QAM	50	0	18.28	18.29	18.28	19.5	5				
20	25QAM	50	24	18.09	18.22	18.16						
20	25QAM	50	50	18.06	18.19	18.10						
20	25QAM	100	0	18.09	18.24	18.14	24.5	0				
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.44	23.50	23.43	24.5	0				
15	QPSK	1	47	23.28	23.32	23.32						
15	QPSK	1	74	23.22	23.30	23.24						
15	QPSK	36	0	22.41	22.30	22.30	23.5	1				
15	QPSK	36	20	22.28	22.28	22.35						
15	QPSK	36	36	22.22	22.28	22.18						
15	HQAM	1	0	22.24	22.25	22.11	23.5	1				
15	HQAM	1	47	22.25	22.25	22.25						
15	HQAM	1	74	22.07	22.10	22.03						
15	HQAM	36	0	21.31	21.37	21.37	22.5	2				
15	HQAM	36	20	21.29	21.38	21.29						
15	HQAM	36	36	21.31	21.34	21.31						
15	HQAM	75	0	21.14	21.21	21.15	22.5	2				
15	HQAM	1	0	21.24	21.29	21.22						
15	HQAM	1	27	21.18	21.32	21.15						
15	HQAM	1	74	21.11	21.22	21.09	21.5	3				
15	HQAM	36	0	20.33	20.45	20.38						
15	HQAM	36	20	20.25	20.29	20.22						
15	HQAM	75	0	20.15	20.22	20.22	19.5	5				
15	25QAM	1	0	18.17	18.18	18.16						
15	25QAM	1	47	18.17	18.15	18.17						
15	25QAM	36	0	18.20	18.26	18.18	19.5	5				
15	25QAM	36	20	17.98	18.10	18.02						
15	25QAM	36	36	17.98	18.13	18.07						
15	25QAM	75	0	18.14	18.10	18.00	24.5	0				
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.48	23.49	23.34	24.5	0				
10	QPSK	1	25	23.18	23.29	23.29						
10	QPSK	1	49	23.31	23.32	23.33						
10	QPSK	12	0	22.33	22.45	22.36	23.5	1				
10	QPSK	25	12	22.28	22.42	22.35						
10	QPSK	25	25	22.22	22.29	22.13						
10	QPSK	50	0	22.13	22.22	22.18	23.5	1				
10	HQAM	1	0	22.17	22.33	22.26						
10	HQAM	1	25	22.11	22.16	22.12						
10	HQAM	1	49	22.00	22.11	21.98	22.5	2				
10	HQAM	25	0	21.31	21.45	21.38						
10	HQAM	25	12	21.27	21.42	21.21						
10	HQAM	25	25	21.21	21.41	21.20	22.5	2				
10	HQAM	50	0	21.09	21.24	21.18						
10	HQAM	1	0	21.24	21.31	21.26	22.5	2				
10	HQAM	1	25	21.23	21.28	21.21						
10	HQAM	1	49	21.09	21.17	21.08						
10	HQAM	25	0	20.33	20.37	20.40	21.5	3				
10	HQAM	25	12	20.32	20.33	20.12						
10	HQAM	25	25	20.22	20.33	20.28						
10	HQAM	50	0	20.15	20.25	20.18	19.5	5				
10	25QAM	1	0	18.16	18.30	18.20						
10	25QAM	1	25	18.21	18.16	18.09						
10	25QAM	1	49	18.10	18.15	18.13	19.5	5				
10	25QAM	25	0	18.16	18.19	18.18						
10	25QAM	25	12	18.04	18.12	18.07						
10	25QAM	25	25	18.01	18.16	18.00	24.5	0				
10	25QAM	50	0	17.97	18.19	18.09						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.45	23.45	23.35	24.5	0				
5	QPSK	1	12	23.18	23.31	23.31						
5	QPSK	1	24	23.29	23.30	23.28						
5	QPSK	12	0	22.33	22.45	22.36	23.5	1				
5	QPSK	12	7	22.29	22.45	22.38						
5	QPSK	12	13	22.28	22.28	22.19						
5	QPSK	25	0	22.25	22.32	22.17	23.5	1				
5	HQAM	1	0	22.23	22.30	22.23						
5	HQAM	1	12	22.16	22.26	22.14						
5	HQAM	1	24	22.01	22.10	22.06	22.5	2				
5	HQAM	12	0	21.36	21.45	21.41						
5	HQAM	12	7	21.24	21.33	21.22						
5	HQAM	12	13	21.38	21.38	21.26	22.5	2				
5	HQAM	25	0	21.08	21.30	21.17						
5	HQAM	1	0	21.28	21.28	21.28						
5	HQAM	1	12	21.16	21.24	21.11	21.5	3				
5	HQAM	1	24	21.02	21.21	21.00						
5	HQAM	12	0	20.34	20.37	20.29						
5	HQAM	12	7	20.20	20.24	20.21	19.5	5				
5	HQAM	12	13	20.28	20.40	20.20						
5	HQAM	25	0	20.11	20.26	20.17						
5	25QAM	1	0	18.10	18.32	18.23	19.5	5				
5	25QAM	1	12	18.16	18.18	18.09						
5	25QAM	1	24	18.18	18.23	18.11						
5	25QAM	12	0	18.17	18.27	18.16	19.5	5				
5	25QAM	12	7	18.01	18.18	18.10						
5	25QAM	12	13	17.93	18.11	17.99						
5	25QAM	25	0	17.94	18.14	18.06	24.5	0				
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.51	23.50	23.40	24.5	0				
5	QPSK	1	12	23.31	23.30	23.32						
5	QPSK	1	24	23.35	23.40	23.36						
5	QPSK	12	0	22.47	22.38	22.38	23.5	1				
5	QPSK	12	7	22.42	22.43	22.40						
5	QPSK	12	13	22.39	22.37	22.31						
5	QPSK	25	0	22.23	22.46	22.39	23.5	1				
5	HQAM	1	0	22.32	22.40	22.30						
5	HQAM	1	12	22.23	22.30	22.23	23.5	1				
5	HQAM	1	24	22.06	22.15	22.10						
5	HQAM	12	0	21.36	21.45	21.41	22.5	2				
5	HQAM	12	7	21.24	21.33	21.22						
5	HQAM	12	13	21.38	21.38	21.26	22.5	2				
5	HQAM	25	0	21.08	21.30	21.17						
5	HQAM	1	0	21.28	21.28	21.28	21.5	3				
5	HQAM	1	12	21.16	21.24	21.11						
5	HQAM	1	24	21.02	21.21	21.00	21.5	3				
5	HQAM	12	0	20.34	20.37	20.29						
5	HQAM	12	7	20.20	20.24	20.21	19.5	5				
5	HQAM	12	13	20.28	20.40	20.20						
5	HQAM	25	0	20.11	20.26	20.17	19.5	5				
5	25QAM	1	0	18.10	18.32	18.23						
5	25QAM	1	12	18.16	18.18	18.09	19.5	5				
5	25QAM	1	24	18.18	18.23	18.11						
5	25QAM	12	0	18.17	18.27	18.16	19.5	5				
5	25QAM	12	7	18.01	18.18	18.10						
5	25QAM	12	13	17.93	18.11	17.99	19.5	5				
5	25QAM	25	0	17.94	18.14	18.06						

DSI 0 Power for WWAN EN-DC Main PA

Band 5 Main PA Ant1 DSI0 ENDG									
RF BWP	Modulation	RB Size	RB Offset	Power (dBm)	Power (dBm)	Power (dBm)	Turn-on time (dBm)	MPR (dB)	
Frequency (MHz)				24425	24625	24825			
10	QPSK	1	0	19.13	19.22	19.66			
10	QPSK	1	8	19.13	19.22	19.66			
10	QPSK	1	16	19.13	19.22	19.66			
10	QPSK	1	48	19.21	19.17	19.11			21
10	QPSK	25	0	19.00	19.19	19.10			
10	QPSK	25	8	19.00	19.19	19.10			
10	QPSK	25	16	19.00	19.04	19.03			21
10	QPSK	50	0	19.11	19.14	19.04			
10	QPSK	50	8	19.05	19.04	19.04			
10	QPSK	1	25	19.12	19.21	19.10			21
10	QPSK	1	49	19.03	19.12	19.15			
10	QPSK	25	25	19.06	19.06	19.06			
10	QPSK	25	12	19.06	19.11	19.07			21
10	QPSK	50	25	19.02	19.08	19.00			0
10	QPSK	50	12	19.06	19.11	19.11			
10	QPSK	1	0	19.20	19.19	19.08			
10	QPSK	1	25	19.16	19.14	19.21			
10	QPSK	25	0	19.07	19.07	19.07			21
10	QPSK	25	0	19.20	19.07	19.21			
10	QPSK	25	8	19.07	19.15	19.14			0
10	QPSK	25	25	19.06	19.15	19.11			
10	QPSK	50	0	19.09	19.13	19.08			
10	QPSK	50	8	19.09	19.13	19.08			
10	QPSK	1	25	18.81	18.67	18.67		20.5	0.5
10	25QPSK	1	49	18.54	18.79	18.59			
10	25QPSK	1	49	18.54	18.79	18.59			
10	25QPSK	12	12	18.50	18.51	18.51		20.5	0.5
10	25QPSK	25	25	18.70	18.54	18.53			
10	25QPSK	25	25	18.70	18.54	18.53			
Channel				24425	24625	24825	Turn-on time (dBm)	MPR (dB)	
Frequency (MHz)				80.5	80.6	80.6			
5	QPSK	1	0	19.13	19.13	19.13			
5	QPSK	1	12	19.04	19.00	19.07			
5	QPSK	1	24	19.11	19.15	19.06			
5	QPSK	1	48	19.11	19.12	19.12			
5	QPSK	12	7	19.05	19.15	19.17			21
5	QPSK	12	13	19.06	19.12	19.04			
5	QPSK	12	13	19.06	19.12	19.08			
5	QPSK	1	0	19.06	19.20	19.12			
5	QPSK	1	12	19.18	19.13	19.11			21
5	QPSK	1	24	19.13	19.12	19.12			
5	QPSK	12	0	19.11	19.07	19.06			
5	QPSK	12	7	19.10	19.03	19.09			21
5	QPSK	12	13	19.05	19.05	19.05			
5	QPSK	25	0	19.18	19.03	19.03			
5	QPSK	25	8	19.18	19.03	19.03			
5	QPSK	1	12	19.13	19.14	19.13			21
5	QPSK	1	24	19.17	19.17	19.06			
5	QPSK	12	13	19.06	19.21	19.01			
5	QPSK	12	7	19.06	19.00	19.11			
5	QPSK	12	13	19.06	19.05	19.05			
5	QPSK	1	0	19.21	19	19			
5	QPSK	1	12	19.13	19.12	19.12			21
5	QPSK	1	24	19.13	19.13	19.13			
5	QPSK	12	7	19.05	19.05	19.05			
5	QPSK	12	13	19.05	19.05	19.05			
5	QPSK	25	0	19.18	19.05	19.05			
5	QPSK	25	8	19.18	19.05	19.05			
Channel				24415	24620	24826	Turn-on time (dBm)	MPR (dB)	
Frequency (MHz)				80.4	80.5	80.5			
3	QPSK	1	0	19.17	19.17	19.19			
3	QPSK	1	8	19.11	19.04	19.17			
3	QPSK	1	16	19.11	19.04	19.17			
3	QPSK	1	48	19.11	19.11	19.11			
3	QPSK	8	0	19.13	19.18	19.09			
3	QPSK	8	4	19.07	19.08	19.09			
3	QPSK	8	12	19.04	19.04	19.04			
3	QPSK	16	0	19.14	19.04	19.10			
3	QPSK	1	0	19.21	19.19	19.16			
3	QPSK	1	8	19.09	19.14	19.11			
3	QPSK	1	16	19.03	19.11	19.21			
3	QPSK	8	0	19.00	19.08	19.09			21
3	QPSK	8	4	19.11	19.12	19.12			
3	QPSK	8	7	19.01	19.05	19.14			
3	QPSK	16	0	19.11	19.05	19.14			
3	QPSK	1	0	19.04	19.11	19.14			21
3	QPSK	1	8	19.16	19.13	19.14			
3	QPSK	8	0	19.03	19.05	19.21			
3	QPSK	8	4	19.06	19.00	19.14			21
3	QPSK	8	12	19.20	19.22	19.22			
3	QPSK	16	0	19.10	19.15	19.11			
3	25QPSK	1	0	18.59	18.71	18.68		20.5	0.5
3	25QPSK	1	0	18.59	18.71	18.68			
3	25QPSK	14	14	18.61	18.63	18.56			
3	25QPSK	8	8	18.59	18.62	18.55			
3	25QPSK	8	8	18.59	18.61	18.50		20.5	0.5
3	25QPSK	8	7	18.55	18.58	18.53			
3	25QPSK	15	0	18.70	18.62	18.54			
Channel				80.4	80.5	80.5	Turn-on time (dBm)	MPR (dB)	
1.4	QPSK	1	0	19.14	19.14	19.16			
1.4	QPSK	1	8	19.11	19.01	19.13			
1.4	QPSK	1	16	19.21	19.21	19.21			21
1.4	QPSK	3	0	19.14	19.12	19.08			
1.4	QPSK	3	8	19.11	19.11	19.11			
1.4	QPSK	3	9	19.05	19.03	19.04			
1.4	QPSK	6	0	19.07	19.04	19.05			21
1.4	QPSK	6	8	19.13	19.11	19.11			
1.4	QPSK	1	9	19.15	19.13	19.08			
1.4	QPSK	1	9	19.17	19.20	19.16			21
1.4	QPSK	3	0	19.06	19.06	19.06			
1.4	QPSK	3	8	19.07	19.04	19.05			
1.4	QPSK	1	9	19.13	19.04	19.05			
1.4	QPSK	1	9	19.10	19.06	19.06			
1.4	QPSK	3	0	19.07	19.04	19.05			
1.4	QPSK	1	0	19.17	19.18	19.08			
1.4	QPSK	1	9	19.17	19.17	19.21			21
1.4	QPSK	1	9	19.12	19.21	19.13			
1.4	QPSK	3	0	19.13	19.01	19.03		21	0
1.4	QPSK	3	8	19.09	19.03	19.03			
1.4	QPSK	3	9	19.05	19.16	19.05			
1.4	QPSK	6	0	19.00	19.21	19.04		21	0
1.4	QPSK	6	8	18.79	18.63	18.63			
1.4	QPSK	1	9	18.57	18.79	18.71			
1.4	25QPSK	1	5	18.61	18.79	18.57		20.5	0.5
1.4	25QPSK	1	5	18.61	18.79	18.56			
1.4	25QPSK	3	1	18.54	18.60	18.57			
1.4	25QPSK	3	3	18.58	18.61	18.54			
1.4	25QPSK	3	3	18.73	18.62	18.57		20.5	0.5

Band 12 Other PA Ant1 ENDC										
RB (MHz)	QAM	Modulation	RB Size	RB Offset	Power Level (dBm)	Power Level (dBm)	Power Level (dBm)	Time slot (ms)	MPE (dB)	
Channel 1										
Frequency (MHz)										
0	QPSK	1	0	0	22.46	22.57	22.50			
0	QPSK	1	0	0	22.46	22.57	22.50	24	0	
0	QPSK	1	49	22	22.42	22.50	22.32			
0	QPSK	25	0	0	22.00	22.28	22.16			
0	QPSK	15	0	0	22.00	22.18	22.03			
0	QPSK	25	0	0	22.06	22.08	22.12			24
0	QPSK	50	0	0	22.19	22.28	22.12			
0	QPSK	25	0	0	22.24	22.24	22.12			
0	HQAM	1	26	20.01	22.03	22.13				
0	HQAM	1	49	22.06	22.08	22.13				
0	HQAM	25	0	0	21.81	21.77	21.71			
0	HQAM	25	12	21.70	21.77	21.66			23.5	0.5
0	HQAM	50	0	0	21.83	21.77	21.68			
0	HQAM	50	0	0	21.71	21.71	21.67			
0	HQAM	1	0	0	21.65	21.70	21.73			
0	HQAM	1	26	20.01	21.73	21.69			23.5	
0	HQAM	25	0	0	21.68	21.68	21.67			
0	HQAM	25	0	0	20.90	20.95	20.98			
0	HQAM	25	0	0	20.80	20.88	20.86			22.5
0	HQAM	25	0	0	20.81	20.91	20.94			
0	HQAM	50	0	0	20.68	20.83	20.72			
0	HQAM	50	0	0	18.85	18.88	18.86			
0	HQAM	50	0	0	18.86	18.91	18.87			20.5
0	HQAM	50	0	0	18.83	18.83	18.88			3.5
0	HQAM	1	49	18.85	18.88	18.74				
0	HQAM	1	26	18.86	18.87	18.77				
0	HQAM	25	12	18.86	18.77	18.72			20.5	3.5
0	HQAM	25	0	0	18.86	18.81	18.82			
Channel 2										
Frequency (MHz)										
0	QPSK	1	0	0	70.13	70.07	71.13	Turn-up (dBm)	MPE (dB)	
0	QPSK	1	12	22	70.13	70.13	71.13			0
0	QPSK	1	24	22	70.08	70.05	71.13			
0	QPSK	1	36	22.06	70.04	70.05	71.13			
0	QPSK	12	7	22.04	70.22	70.22	71.13			
0	QPSK	12	7	22.04	70.22	70.22	71.13			
0	QPSK	12	7	22.16	70.22	70.22	71.13			
0	QPSK	25	0	0	70.24	70.22	71.13			
0	HQAM	1	0	0	70.24	70.24	71.13			
0	HQAM	1	12	21.11	70.27	70.21	71.13			24
0	HQAM	1	24	21.12	70.27	70.21	71.13			
0	HQAM	12	0	0	71.16	71.16	71.13			23.5
0	HQAM	25	0	0	71.53	71.53	71.51			0.5
0	HQAM	25	0	0	71.54	71.71	71.51			
0	HQAM	12	12	71.55	71.64	71.54			23.5	0.5
0	HQAM	1	24	71.51	71.61	71.56				
0	HQAM	12	0	0	70.67	70.68	70.67			
0	HQAM	12	7	70.67	70.85	70.72			22.5	1.5
0	HQAM	25	0	0	70.65	70.65	70.66			
0	HQAM	50	0	0	70.71	70.88	70.79			
0	HQAM	50	0	0	70.71	70.8				
Channel 3										
Frequency (MHz)										
0	QPSK	1	0	0	22.52	22.51	22.26			
0	QPSK	1	0	0	22.49	22.51	22.26	24	0	
0	QPSK	1	49	22	22.44	22.51	22.31			
0	QPSK	8	4	22.10	22.24	22.14				
0	QPSK	8	4	22.10	22.24	22.25	24	0		
0	QPSK	15	0	0	22.16	22.23	22.23			
0	HQAM	1	0	0	22.44	22.41	22.23			
0	HQAM	1	12	22.20	22.34	22.17			24	0
0	HQAM	1	14	22.14	22.14	22.10				
0	HQAM	8	0	0	21.19	21.77	21.65			23.5
0	HQAM	8	7	21.66	21.72	21.55				
0	HQAM	15	0	0	21.54	21.63	21.51			
0	HQAM	15	0	0	21.56	21.72	21.63			
0	HQAM	1	8	21.56	21.64	21.40			23.5	0.5
0	HQAM	1	15	21.64	21.64	21.40				
0	HQAM	8	0	0	20.79	20.88	20.79			
0	HQAM	8	4	20.77	20.71	20.72			22.5	1.5
0	HQAM	15	0	0	20.74	20.74	20.74			
0	HQAM	15	0	0	20.63	20.75	20.61			
0	HQAM	1	0	0	18.75	18.88	18.79			20.5
0	HQAM	1	14	18.79	18.84	18.81				
0	HQAM	8	0	0	18.70	18.82	18.72			
0	HQAM	8	7	18.82	18.71	18.71			20.5	3.5
0	HQAM	8	7	18.82	18.79	18.63				
0	HQAM	15	0	0	18.73	18.87	18.76			
Channel 4										
Frequency (MHz)										
1.4	QPSK	1	0	0	22.42	22.43	22.51			
1.4	QPSK	1	0	0	22.42	22.43	22.51	24	0	
1.4	QPSK	1	49	22	22.33	22.43	22.31			
1.4	QPSK	8	4	22.10	22.34	22.17				
1.4	QPSK	8	4	22.10	22.29	22.22	24	0		
1.4	QPSK	15	0	0	22.16	22.22	22.14			
1.4	QPSK	1	0	0	22.19	22.21	22.29			24
1.4	QPSK	1	12	22.20	22.28	22.22				
1.4	QPSK	1	3	22.41	22.31	22.11				
1.4	HQAM	1	0	0	22.13	22.41	22.17			24
1.4	HQAM	1	12	22.24	22.32	22.12				
1.4	HQAM	1	1	22.51	22.49	22.50				
1.4	HQAM	8	0	0	22.54	22.52	22.56			
1.4	HQAM	8	7	21.99	21.91	21.91			23.5	0.5
1.4	HQAM	15	0	0	21.59	21.59	21.52			
1.4	HQAM	15	0	0	21.59	21.67	21.52			
1.4	HQAM	1	0	0	21.54	21.58	21.52			23.5
1.4	HQAM	3	0	0	21.55	21.71	21.40			
1.4	HQAM	3	7	21.60	21.68	21.63				
1.4	HQAM	3	3	21.53	21.58	21.53				
1.4	HQAM	8	0	0	20.74	20.82	20.68			22.5
1.4	HQAM	8	7	20.79	20.87	20.74				
1.4	HQAM	3	3	18.77	18.87	18.79				
1.4	HQAM	3	7	18.79	18.74	18.71			20.5	3.5
1.4	HQAM	3	3	18.70	18.73	18.73				
1.4	HQAM	3	1	18.55	18.67	18.60				
1.4	HQAM	3	3	18.66	18.75	18.59				
1.4	HQAM	3	3	18.78	18.78	18.74			20.5	1.5

Band 26 Main PA Ant1 DSO ENDC											
W/ MHz	Modulation	Power Class	RB Offset	Power (P ₁ / dBm)	Power (P ₂ / dBm)	Power (P ₃ / dBm)	Time-slot (ms)	MPE (dB)			
Channel											
Frequency (MHz)				621.5	631.5	641.5					
15 QPSK	1	0	19.2	19.26	19.15			21	0	0	
15 QPSK	1	37	19.2	19.26	19.15						
15 QPSK	1	74	19.1	19.23	19.06						
15 QPSK	36	0	19.06	19.16	19.10						
15 QPSK	36	20	19.12	19.06	19.08						
15 QPSK	36	36	19.01	19.08	19.03						
15 QPSK	75	0	19.07	19.10	19.09						
15 QPSK	75	20	19.12	19.14	19.14						
15 QPSK	75	37	19.17	19.18	19.27						
15 QPSK	75	74	19.11	19.18	19.01						
15 QPSK	1	0	19.12	19.18	19.06			21	0		
15 QPSK	1	37	19.17	19.18	19.07						
15 QPSK	1	74	19.13	19.19	19.12						
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05						
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04						
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07						
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16			20.5	0.5		
15 QPSK	1	37	19.18	19.17	19.04						
15 QPSK	1	74	19.14	19.18	19.04						
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05						
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04			20.5	0.5		
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07						
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16						
15 QPSK	1	37	19.18	19.17	19.04						
15 QPSK	1	74	19.14	19.18	19.04			20.5	0.5		
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05						
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04						
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07			20.5	0.5		
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16						
15 QPSK	1	37	19.18	19.17	19.04						
15 QPSK	1	74	19.14	19.18	19.04						
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05			20.5	0.5		
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04						
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07						
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16			20.5	0.5		
15 QPSK	1	37	19.18	19.17	19.04						
15 QPSK	1	74	19.14	19.18	19.04						
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05						
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04			20.5	0.5		
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07						
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16						
15 QPSK	1	37	19.18	19.17	19.04						
15 QPSK	1	74	19.14	19.18	19.04			20.5	0.5		
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05						
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04						
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07			20.5	0.5		
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16						
15 QPSK	1	37	19.18	19.17	19.04						
15 QPSK	1	74	19.14	19.18	19.04						
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05			20.5	0.5		
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04						
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07						
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16			20.5	0.5		
15 QPSK	1	37	19.18	19.17	19.04						
15 QPSK	1	74	19.14	19.18	19.04						
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05						
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04			20.5	0.5		
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07						
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16						
15 QPSK	1	37	19.18	19.17	19.04						
15 QPSK	1	74	19.14	19.18	19.04			20.5	0.5		
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05						
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04						
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07			20.5	0.5		
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16						
15 QPSK	1	37	19.18	19.17	19.04						
15 QPSK	1	74	19.14	19.18	19.04						
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05			20.5	0.5		
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04						
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07						
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16			20.5	0.5		
15 QPSK	1	37	19.18	19.17	19.04						
15 QPSK	1	74	19.14	19.18	19.04						
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05						
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04			20.5	0.5		
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07						
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16						
15 QPSK	1	37	19.18	19.17	19.04						
15 QPSK	1	74	19.14	19.18	19.04			20.5	0.5		
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05						
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04						
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07			20.5	0.5		
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16						
15 QPSK	1	37	19.18	19.17	19.04						
15 QPSK	1	74	19.14	19.18	19.04						
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05			20.5	0.5		
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04						
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07						
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16			20.5	0.5		
15 QPSK	1	37	19.18	19.17	19.04						
15 QPSK	1	74	19.14	19.18	19.04						
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05						
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04			20.5	0.5		
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07						
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16						
15 QPSK	1	37	19.18	19.17	19.04						
15 QPSK	1	74	19.14	19.18	19.04			20.5	0.5		
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05						
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04						
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07			20.5	0.5		
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16						
15 QPSK	1	37	19.18	19.17	19.04						
15 QPSK	1	74	19.14	19.18	19.04						
15 QPSK	36	0	19.13	19.03	19.14						
15 QPSK	36	20	19.07	19.04	19.05			20.5	0.5		
15 QPSK	36	36	19.09	19.19	19.02						
15 QPSK	75	0	19.06	19.17	19.04						
15 QPSK	75	20	19.06	19.07	19.06						
15 QPSK	75	37	19.11	19.06	19.07						
15 QPSK	75	74	19.14	19.18	19.08						
15 QPSK	1	0	19.22	19.11	19.16						

Band 66 Main PA Antenna DS10 ENDC										
AW (MHz)	Modulation	File Size	File Offset	Power (dBm)	Power (dBm) / File Size	Power (dBm) / File Size	Power (dBm) / File Size	Turn-on time (s)	MPE (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	13.95	14.03	13.77	13.77	15.5	0	
20	QPSK	1	0	13.77	13.77	13.77	13.77			
20	QPSK	1	0	13.77	13.76	13.76	13.76			
20	QPSK	1	0	13.77	13.76	13.76	13.76			
20	QPSK	60	0	13.77	13.76	13.76	13.76	15.5	0	
20	QPSK	60	0	13.77	13.76	13.76	13.76			
20	QPSK	60	0	13.77	13.76	13.76	13.76			
20	QPSK	60	0	13.77	13.76	13.76	13.76			
20	QPSK	100	0	13.76	13.76	13.84	13.84	15.5	0	
20	QPSK	100	0	13.76	13.76	13.84	13.84			
20	QPSK	100	0	13.76	13.76	13.84	13.84			
20	QPSK	100	0	13.76	13.76	13.84	13.84			
20	QPSK	1	0	13.74	13.86	13.69	13.69	15.5	0	
20	QPSK	1	0	13.86	13.67	13.82	13.82			
20	QPSK	1	0	13.86	13.67	13.82	13.82			
20	QPSK	1	0	13.86	13.67	13.82	13.82			
20	QPSK	60	0	13.94	13.78	13.80	13.80	15.5	0	
20	QPSK	60	0	13.94	13.78	13.80	13.80			
20	QPSK	60	0	13.94	13.78	13.80	13.80			
20	QPSK	60	0	13.94	13.78	13.80	13.80			
20	QPSK	100	0	13.78	13.69	13.74	13.74	15.5	0	
20	QPSK	100	0	13.78	13.69	13.74	13.74			
20	QPSK	100	0	13.78	13.69	13.74	13.74			
20	QPSK	100	0	13.78	13.69	13.74	13.74			
20	QPSK	1	0	13.84	13.68	13.74	13.74	15.5	0	
20	QPSK	1	0	13.84	13.68	13.74	13.74			
20	QPSK	1	0	13.84	13.68	13.74	13.74			
20	QPSK	1	0	13.84	13.68	13.74	13.74			
20	QPSK	1	0	13.77	13.62	13.61	13.61	15.5	0	
20	QPSK	1	0	13.77	13.62	13.61	13.61			
20	QPSK	1	0	13.77	13.62	13.61	13.61			
20	QPSK	1	0	13.77	13.62	13.61	13.61			
20	QPSK	60	0	13.77	13.62	13.61	13.61	15.5	0	
20	QPSK	60	0	13.77	13.62	13.61	13.61			
20	QPSK	60	0	13.77	13.62	13.61	13.61			
20	QPSK	60	0	13.77	13.62	13.61	13.61			
20	QPSK	100	0	13.84	13.57	13.58	13.58	15.5	0	
20	QPSK	100	0	13.84	13.57	13.58	13.58			
20	QPSK	100	0	13.84	13.57	13.58	13.58			
20	QPSK	100	0	13.84	13.57	13.58	13.58			
20	QPSK	1	0	13.64	13.80	13.84	13.84	15.5	0	
20	QPSK	1	0	13.64	13.80	13.84	13.84			
20	QPSK	1	0	13.64	13.80	13.84	13.84			
20	QPSK	1	0	13.64	13.80	13.84	13.84			
20	QPSK	1	0	13.77	13.62	13.61	13.61	15.5	0	
20	QPSK	1	0	13.77	13.62	13.61	13.61			
20	QPSK	1	0	13.77	13.62	13.61	13.61			
20	QPSK	1	0	13.77	13.62	13.61	13.61			
20	QPSK	60	0	13.66	13.66	13.66	13.66	15.5	0	
20	QPSK	60	0	13.66	13.66	13.66	13.66			
20	QPSK	60	0	13.66	13.66	13.66	13.66			
20	QPSK	60	0	13.66	13.66	13.66	13.66			
20	QPSK	100	0	13.55	13.77	13.68	13.68	15.5	0	
20	QPSK	100	0	13.55	13.77	13.68	13.68			
20	QPSK	100	0	13.55	13.77	13.68	13.68			
20	QPSK	100	0	13.55	13.77	13.68	13.68			
20	QPSK	1	0	13.61	13.68	13.69	13.69	15.5	0	
20	QPSK	1	0	13.61	13.68	13.69	13.69			
20	QPSK	1	0	13.61	13.68	13.69	13.69			
20	QPSK	1	0	13.61	13.68	13.69	13.69			
20	QPSK	60	0	13.83	13.72	13.69	13.69	15.5	0	
20	QPSK	60	0	13.83	13.72	13.69	13.69			
20	QPSK	60	0	13.83	13.72	13.69	13.69			
20	QPSK	60	0	13.83	13.72	13.69	13.69			
20	QPSK	100	0	13.55	13.70	13.59	13.59	15.5	0	
20	QPSK	100	0	13.55	13.70	13.59	13.59			
20	QPSK	100	0	13.55	13.70	13.59	13.59			
20	QPSK	100	0	13.55	13.70	13.59	13.59			
20	QPSK	1	0	13.57	13.55	13.52	13.52	15.5	0	
20	QPSK	1	0	13.57	13.55	13.52	13.52			
20	QPSK	1	0	13.57	13.55	13.52	13.52			
20	QPSK	1	0	13.57	13.55	13.52	13.52			
20	QPSK	1	0	13.93	13.92	13.66	13.66	15.5	0	
10	QPSK	1	0	13.93	13.92	13.66	13.66			
10	QPSK	1	0	13.93	13.92	13.66	13.66			
10	QPSK	1	0	13.93	13.92	13.66	13.66			
10	QPSK	1	25	13.88	13.74	13.63	13.63	15.5	0	
10	QPSK	1	25	13.88	13.74	13.63	13.63			
10	QPSK	1	25	13.88	13.74	13.63	13.63			
10	QPSK	1	25	13.88	13.74	13.63	13.63			
10	QPSK	25	0	13.77	13.67	13.62	13.62	15.5	0	
10	QPSK	25	0	13.77	13.67	13.62	13.62			
10	QPSK	25	0	13.77	13.67	13.62	13.62			
10	QPSK	25	0	13.77	13.67	13.62	13.62			
10	QPSK	60	0	13.66	13.63	13.63	13.63	15.5	0	
10	QPSK	60	0	13.66	13.63	13.63	13.63			
10	QPSK	60	0	13.66	13.63	13.63	13.63			
10	QPSK	60	0	13.66	13.63	13.63	13.63			
10	QPSK	100	0	13.56	13.63	13.61	13.61	15.5	0	
10	QPSK	100	0	13.56	13.63	13.61	13.61			
10	QPSK	100	0	13.56	13.63	13.61	13.61			
10	QPSK	100	0	13.56	13.63	13.61	13.61			
10	QPSK	1	0	13.56	13.68	13.77	13.77	15.5	0	
10	QPSK	1	0	13.56	13.68	13.77	13.77			
10	QPSK	1	0	13.56	13.68	13.77	13.77			
10	QPSK	1	0	13.56	13.68	13.77	13.77			
10	QPSK	1	0	13.62	13.80	13.82	13.82	15.5	0	
10	QPSK	1	0	13.62	13.80	13.82	13.82			
10	QPSK	1	0	13.62	13.80	13.82	13.82			
10	QPSK	1	0	13.62	13.80	13.82	13.82			
10	QPSK	25	0	13.71	13.73	13.69	13.69	15.5	0	
10	QPSK	25	0	13.71	13.73	13.69	13.69			
10	QPSK	25	0	13.71	13.73	13.69	13.69			
10	QPSK	25	0	13.71	13.73	13.69	13.69			
10	QPSK	60	0	13.73	13.73	13.70	13.70	15.5	0	
10	QPSK	60	0	13.73	13.73	13.70	13.70			
10	QPSK	60	0	13.73	13.73	13.70	13.70			
10	QPSK	60	0	13.73	13.73	13.70	13.70			
10	QPSK	25	25	13.67	13.64	13.69	13.69	15.5	0	
10	QPSK	25	25	13.67	13.64	13.69	13.69			
10	QPSK	25	25	13.67	13.64	13.69	13.69			
10	QPSK	25	25	13.67	13.64	13.69	13.69			
10	QPSK	60	0	13.64	13.74	13.60	13.60	15.5	0	
10	QPSK	60	0	13.64	13.74	13.60	13.60			
10	QPSK	60	0	13.64	13.74	13.60	13.60			
10	QPSK	60	0	13.64	13.74	13.60	13.60			
10	QPSK	1	25	13.89	13.78	13.74	13.74	15.5	0	
10	QPSK	1	25	13.89	13.78	13.74	13.74			
10	QPSK	1	25	13.89	13.78	13.74	13.74			
10	QPSK	1	25	13.89	13.78	13.74	13.74			
10	QPSK	25	12	13.60	13.54	13.81	13.81	15.5	0	
10	QPSK	25	12	13.60	13.54	13.81	13.81			
10	QPSK	25	12	13.60	13.54	13.81	13.81			
10	QPSK	25	12	13.60	13.54	13.81	13.81			
10	QPSK	60	0	13.69	13.52	13.69	13.69	15.5	0	
10	QPSK	60	0	13.69	13.52	13.69	13.69			
10	QPSK	60	0	13.69	13.52	13.69	13.69			
10	QPSK	60	0	13.69	13.52	13.69	13.69			
10	QPSK	1	0	13.73	13.74	13.62	13.62	15.5	0	
10	QPSK	1	0	13.73	13.74	13.62	13.62			
10	QPSK	1	0	13.73	13.74	13.62	13.62			
10	QPSK	1	0	13.73	13.74	13.62	13.62			
10	QPSK	1	0	13.68	13.68	13.68	13.68	15.5	0	
10	QPSK	1	0	13.68	13.68	13.68	13.68			
10	QPSK	1	0	13.68	13.68	13.68	13.68			
10	QPSK	1	0	13.68	13.68	13.68	13.68			
10	QPSK	25	0	13.65	13.70	13.64	13.64	15.5	0	
10	QPSK	25	0	13.65	13.70	13.64	13.64			
10	QPSK	25	0	13.65	13.70	13.64	13.64			
10	QPSK	25	0	13.65	13.70	13.64	13.64			
10	QPSK	1	12	13.68	13.57	13.65	13.65	15.5	0	
10	QPSK	1	12	13.68	13.57	13.65	13.65			
10	QPSK	1	12	13.68	13.57	13.65	13.65			
10	QPSK	1	12	13.68	13.57	13.65	13.65			
10	QPSK	12	13	13.67	13.68	13.87	13.87	15.5	0	
10	QPSK	12	13	13.67	13.68	13.87	13.87			
10	QPSK	12	13	13.67	13.68	13.87	13.87			
10	QPSK	12	13	13.67	13.68	13.87	13.87			
10	QPSK	25	0	13.58	13.72	13.68	13.68	15.5	0	
10	QPSK	25	0	13.58	13.72	13.68	13.68			
10	QPSK	25	0	13.58	13.72	13.68	13.68			
10	QPSK	25	0	13.58	13.72	13.68	13.68			
10	QPSK	1	12	13.62	13.73	13.79	13.79	15.5	0	
10	QPSK	1	12	13.62	13.73	13.79	13.79			
10	QPSK	1	12	13.62	13.73	13.79				

Band 38 Main PA Ant1 DSI0 ENDC																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	16.41	16.16	16.29	18	0								
20	QPSK	1	49	16.45	16.49	16.29										
20	QPSK	1	99	16.38	16.49	16.42										
20	QPSK	60	0	16.36	16.54	16.51										
20	QPSK	50	24	16.26	16.43	16.43	18	0								
20	QPSK	50	50	16.25	16.43	16.41										
20	QPSK	100	0	16.37	16.40	16.38										
20	16QAM	1	0	16.48	16.43	16.19										
20	16QAM	1	49	16.39	16.43	16.21	18	0								
20	16QAM	1	99	16.40	16.46	16.51										
20	16QAM	50	0	16.21	16.51	16.37										
20	16QAM	50	24	16.31	16.33	16.35										
20	16QAM	100	0	16.35	16.39	16.36	18	0								
20	64QAM	1	0	16.22	16.37	16.45										
20	64QAM	1	49	16.22	16.20	16.40										
20	64QAM	1	99	16.33	16.15	16.35										
20	64QAM	50	0	16.33	16.38	16.38	18	0								
20	64QAM	50	24	16.31	16.30	16.40										
20	64QAM	50	50	16.37	16.33	16.20										
20	64QAM	100	0	16.32	16.44	16.45										
20	256QAM	1	0	16.40	16.54	16.45	18	0								
20	256QAM	1	49	16.47	16.55	16.41										
20	256QAM	1	99	16.37	16.51	16.46										
20	256QAM	50	0	16.40	16.45	16.31										
20	256QAM	50	24	16.33	16.36	16.22	18	0								
20	256QAM	50	50	16.40	16.45	16.38										
20	256QAM	100	0	16.21	16.28	16.23										
Channel																
Frequency (MHz)																
15	QPSK	1	0	16.33	16.48	16.35	18	0								
15	QPSK	1	37	16.35	16.28	16.17										
15	QPSK	1	74	16.38	16.30	16.27										
15	QPSK	36	0	16.32	16.35	16.28										
15	QPSK	36	20	16.13	16.25	16.08	18	0								
15	QPSK	36	36	16.19	16.22	16.27										
15	QPSK	75	0	16.22	16.27	16.32										
15	16QAM	1	0	16.37	16.33	16.17										
15	16QAM	1	37	16.22	16.23	16.12	18	0								
15	16QAM	1	74	16.35	16.28	16.43										
15	16QAM	36	0	16.13	16.52	16.28										
15	16QAM	36	20	16.17	16.16	16.22										
15	16QAM	36	39	16.09	16.15	16.07	18	0								
15	16QAM	75	0	16.14	16.21	16.16										
15	64QAM	1	0	16.12	16.25	16.36										
15	64QAM	1	37	16.23	16.19	16.39										
15	64QAM	1	74	16.08	16.01	16.07	18	0								
15	64QAM	1	0	16.30	16.20	16.16										
15	64QAM	36	20	16.15	16.23	16.41										
15	64QAM	36	39	16.10	16.23	16.05										
15	64QAM	75	0	16.23	16.32	16.25	18	0								
15	256QAM	1	0	16.33	16.40	16.29										
15	256QAM	1	37	16.38	16.46	16.25										
15	256QAM	1	74	16.20	16.49	16.32										
15	256QAM	36	0	16.18	16.43	16.23	18	0								
15	256QAM	36	20	16.23	16.21	16.08										
15	256QAM	36	39	16.38	16.43	16.20										
15	256QAM	75	0	16.00	16.22	16.22										
Channel																
Frequency (MHz)																
10	QPSK	1	0	16.40	16.49	16.38	18	0								
10	QPSK	1	25	16.29	16.27	16.27										
10	QPSK	1	49	16.34	16.37	16.24										
10	QPSK	25	0	16.14	16.41	16.20										
10	QPSK	25	12	16.27	16.23	16.07	18	0								
10	QPSK	25	25	16.19	16.32	16.36										
10	QPSK	60	0	16.33	16.33	16.35										
10	16QAM	1	0	16.31	16.35	16.17										
10	16QAM	1	25	16.18	16.35	16.21	18	0								
10	16QAM	1	49	16.35	16.42	16.52										
10	16QAM	25	0	16.21	16.37	16.17										
10	16QAM	25	12	16.15	16.26	16.26										
10	16QAM	25	25	16.14	16.24	16.03	18	0								
10	16QAM	50	0	16.36	16.23	16.31										
10	64QAM	1	0	16.04	16.24	16.30										
10	64QAM	1	25	16.30	16.08	16.25										
10	64QAM	1	49	16.05	16.01	16.05	18	0								
10	64QAM	25	0	16.20	16.24	16.36										
10	64QAM	25	12	16.13	16.20	16.28										
10	64QAM	25	25	16.21	16.31	16.21										
10	64QAM	50	0	16.16	16.35	16.29	18	0								
10	256QAM	1	0	16.34	16.38	16.31										
10	256QAM	1	25	16.27	16.42	16.36										
10	256QAM	1	49	16.34	16.36	16.32										
10	256QAM	25	0	16.23	16.36	16.14	18	0								
10	256QAM	25	12	16.24	16.17	16.08										
10	256QAM	25	25	16.20	16.35	16.39										
10	256QAM	50	0	16.08	16.22	16.04										
Channel																
Frequency (MHz)																
5	QPSK	1	0	16.43	16.41	16.20	18	0								
5	QPSK	1	12	16.35	16.36	16.29										
5	QPSK	1	24	16.39	16.34	16.21										
5	QPSK	12	0	16.17	16.35	16.31										
5	QPSK	12	7	16.05	16.39	16.06	18	0								
5	QPSK	12	13	16.04	16.35	16.31										
5	QPSK	26	0	16.23	16.19	16.23										
5	16QAM	1	0	16.35	16.35	16.15										
5	16QAM	1	12	16.19	16.28	16.04	18	0								
5	16QAM	1	24	16.51	16.37	16.48										
5	16QAM	12	0	16.11	16.47	16.26										
5	16QAM	12	7	16.28	16.12	16.03										
5	16QAM	12	13	16.05	16.20	16.08	18	0								
5	16QAM	26	0	16.26	16.40	16.21										
5	64QAM	1	0	16.00	16.27	16.26										
5	64QAM	1	12	16.22	16.11	16.20										

Band 66 Main PA Ant3 DS10 ENDC														
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Mid Ch. 1 Freq.	Power High Ch. 1 Freq.	Turn-up Rate (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	17.36	17.40	17.34	19	0						
20	QPSK	1	49	17.27	17.30	17.32								
20	QPSK	1	99	17.32	17.34	17.34								
20	QPSK	50	0	17.10	17.32	17.17								
20	QPSK	50	24	17.14	17.21	17.61	19	0						
20	QPSK	50	50	17.15	17.00	17.62								
20	QPSK	100	0	17.07	17.27	17.19								
20	16QAM	1	1	17.14	17.24	17.20								
20	16QAM	1	49	17.17	17.21	17.06	19	0						
20	16QAM	1	99	17.06	17.06	17.17								
20	16QAM	50	0	17.10	17.23	17.12								
20	16QAM	50	24	17.06	17.15	17.61								
20	16QAM	50	50	17.12	17.19	17.14	19	0						
20	16QAM	100	0	17.08	17.13	17.63								
20	64QAM	1	0	17.04	17.09	17.63								
20	64QAM	1	49	17.06	17.13	17.67								
20	64QAM	50	0	17.21	17.32	17.28	19	0						
20	64QAM	50	24	17.16	17.23	17.16								
20	64QAM	50	50	17.23	17.28	17.23								
20	64QAM	100	0	17.12	17.20	17.17								
20	256QAM	1	0	16.60	16.83	16.71	18.5	0.5						
20	256QAM	1	49	16.68	16.80	16.66								
20	256QAM	1	99	16.70	16.75	16.61								
20	256QAM	50	0	16.66	16.76	16.64								
20	256QAM	50	24	16.56	16.66	16.60								
20	256QAM	50	50	16.62	16.72	16.60								
20	256QAM	100	0	16.55	16.69	16.58								
Channel														
Frequency (MHz)														
15	QPSK	1	0	17.32	17.36	17.26	19	0						
15	QPSK	1	37	17.07	17.36	17.36								
15	QPSK	1	74	17.19	17.34	17.33								
15	QPSK	36	0	17.06	17.31	17.19								
15	QPSK	36	20	17.14	17.31	17.25	19	0						
15	QPSK	36	39	17.01	17.25	17.38								
15	QPSK	75	0	17.23	17.30	17.31								
15	16QAM	1	0	17.35	17.28	17.29								
15	16QAM	1	37	17.03	17.28	17.37	19	0						
15	16QAM	1	74	17.06	17.32	17.19								
15	16QAM	36	0	17.10	17.30	17.15								
15	16QAM	36	20	17.01	17.22	17.67								
15	16QAM	36	39	17.17	17.16	17.11	19	0						
15	16QAM	75	0	17.11	17.10	17.12								
15	64QAM	1	0	17.12	17.13	17.60								
15	64QAM	1	37	17.07	17.09	17.67								
15	64QAM	1	74	17.05	17.04	17.16	19	0						
15	64QAM	36	0	17.18	17.26	17.35								
15	64QAM	36	20	17.15	17.26	17.20								
15	64QAM	36	39	17.25	17.35	17.25								
15	64QAM	75	0	17.18	17.16	17.28	18.5	0.5						
15	256QAM	1	0	16.74	16.80	16.71								
15	256QAM	1	37	16.68	16.88	16.60								
15	256QAM	1	74	16.77	16.85	16.61								
15	256QAM	36	0	16.76	16.87	16.73	18.5	0.5						
15	256QAM	36	20	16.55	16.73	16.70								
15	256QAM	36	39	16.59	16.83	16.58								
15	256QAM	75	0	16.81	16.81	16.63								
Channel														
Frequency (MHz)														
10	QPSK	1	0	17.25	17.39	17.24	19	0						
10	QPSK	1	25	17.08	17.24	17.20								
10	QPSK	1	49	17.12	17.24	17.36								
10	QPSK	25	0	17.08	17.36	17.16								
10	QPSK	25	12	17.06	17.18	17.32	19	0						
10	QPSK	25	25	17.12	17.15	17.25								
10	QPSK	50	0	17.06	17.26	17.24								
10	16QAM	1	0	17.36	17.16	17.36								
10	16QAM	1	25	17.06	17.23	17.27	19	0						
10	16QAM	1	49	17.25	17.20	17.22								
10	16QAM	25	0	17.09	17.23	17.18								
10	16QAM	25	12	17.00	17.12	17.00								
10	16QAM	25	25	17.13	17.29	17.20	19	0						
10	16QAM	50	0	17.04	17.15	17.09								
10	64QAM	1	0	17.15	17.60	17.67								
10	64QAM	1	25	17.02	17.07	17.14								
10	64QAM	1	49	17.07	17.07	17.62	19	0						
10	64QAM	25	0	17.16	17.38	17.29								
10	64QAM	25	12	17.33	17.14	17.33								
10	64QAM	25	25	17.30	17.33	17.14								
10	64QAM	50	0	17.24	17.28	17.24	18.5	0.5						
10	256QAM	1	0	16.68	16.74	16.63								
10	256QAM	1	25	16.57	16.75	16.59								
10	256QAM	1	49	16.75	16.79	16.67								
10	256QAM	25	0	16.65	16.85	16.67	18.5	0.5						
10	256QAM	25	12	16.65	16.70	16.57								
10	256QAM	25	25	16.81	16.69	16.56								
10	256QAM	50	0	16.66	16.64	16.57								
Channel														
Frequency (MHz)														
5	QPSK	1	0	17.34	17.30	17.25	19	0						
5	QPSK	1	12	17.08	17.25	17.35								
5	QPSK	1	24	17.30	17.27	17.24								
5	QPSK	12	0	17.08	17.25	17.18								
5	QPSK	12	7	17.19	17.10	17.36	19	0						
5	QPSK	12	13	17.01	17.12	17.27								
5	QPSK	25	0	17.20	17.31	17.30								
5	16QAM	1	0	17.17	17.14	17.31								
5	16QAM	1	12	17.03	17.32	17.27	19	0						
5	16QAM	1	24	17.24	17.31	17.25								
5	16QAM	12	0	17.11	17.32	17.09								
5	16QAM	12	7	17.16	17.07	17.16								
5	16QAM	12	13	17.07	17.16	17.26	19	0						
5	16QAM	25	0	17.07	17.20	17.67								
5	64QAM	1	0	17.14	17.15	17.69								
5	64QAM	1	12	17.13	17.04	17.13								
5	64QAM	1	24	17.04	17.13	17.68	19	0						
5	64QAM	12	0	17.13	17.26	17.34								
5	64QAM	12	7	17.10	17.31	17.10								
5	64QAM	12	13	17.21	17.28	17.20								
5	64QAM	25	0	17.28	17.19	17.18	18.5	0.5						
5	256QAM	1	1	16.60	16.82	16.73								
5	256QAM	1	12	16.57	16.90	16.79								

Band 38 Main PA Ant3 DSI0 ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37860	38000	38150				
20	QPSK	1	0	2400	2405	18.10	19.5	0		
20	QPSK	1	49	17.92	18.18	18.05				
20	QPSK	1	99	17.88	17.96	18.01				
20	QPSK	50	0	17.93	18.30	17.99	19.5	0		
20	QPSK	50	24	17.93	18.18	18.12				
20	QPSK	50	50	17.88	18.02	17.94				
20	QPSK	100	0	18.05	18.03	17.79	19.5	0		
20	16QAM	1	0	17.85	17.94	17.82				
20	16QAM	1	49	17.74	18.01	17.79				
20	16QAM	50	0	18.23	18.25	18.25	19.5	0		
20	16QAM	50	24	18.02	18.10	18.02				
20	16QAM	100	0	17.93	18.08	17.87				
20	16QAM	1	0	17.91	17.98	17.73	19.5	0		
20	16QAM	1	49	17.85	17.74	17.76				
20	16QAM	50	0	18.08	18.28	18.09				
20	16QAM	50	24	18.05	18.25	17.97	19.5	0		
20	16QAM	50	50	18.31	18.00	18.08				
20	16QAM	100	0	18.02	18.14	18.14				
20	256QAM	1	0	17.93	18.09	17.82	19.5	0		
20	256QAM	1	49	17.89	17.88	17.73				
20	256QAM	1	99	17.87	18.01	17.77				
20	256QAM	50	0	18.16	18.21	18.05	19.5	0		
20	256QAM	50	24	17.88	18.04	17.92				
20	256QAM	50	50	18.11	18.00	18.08				
20	256QAM	100	0	17.85	18.10	18.03	19.5	0		
Channel										
Frequency (MHz)				37425	38000	38015	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	2552.5	2555	25.83	19.5	0		
15	QPSK	1	0	18.17	18.19	18.13				
15	QPSK	1	37	17.95	18.15	17.83				
15	QPSK	36	0	17.93	18.01	18.09	19.5	0		
15	QPSK	36	0	18.05	18.26	18.15				
15	QPSK	36	20	18.08	18.11	18.10				
15	QPSK	75	0	17.96	18.11	17.78	19.5	0		
15	16QAM	1	0	17.88	17.83	17.69				
15	16QAM	1	37	17.70	17.89	17.89				
15	16QAM	36	0	18.20	18.19	18.20	19.5	0		
15	16QAM	36	20	18.03	18.17	18.00				
15	16QAM	36	39	18.00	18.16	18.00				
15	16QAM	75	0	17.97	17.95	18.00	19.5	0		
15	16QAM	1	0	17.86	17.96	17.73				
15	16QAM	1	37	17.77	17.84	17.74				
15	16QAM	1	74	17.83	17.92	17.87	19.5	0		
15	16QAM	36	0	18.17	18.20	18.04				
15	16QAM	36	20	17.95	18.24	18.03				
15	16QAM	36	39	18.30	18.24	18.05	19.5	0		
15	16QAM	75	0	17.90	17.86	18.21				
15	256QAM	1	0	17.91	17.84	17.94				
15	256QAM	1	37	17.99	17.83	17.86	19.5	0		
15	256QAM	1	74	17.82	17.81	17.77				
15	256QAM	36	0	18.09	18.27	17.94				
15	256QAM	36	20	17.89	18.05	17.86	19.5	0		
15	256QAM	36	39	18.12	18.06	18.00				
15	256QAM	75	0	18.03	17.96	17.98				
Channel										
Frequency (MHz)				37860	38000	38000	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	2511	2525	25.13	19.5	0		
10	QPSK	1	25	18.13	18.25	18.23				
10	QPSK	1	25	18.04	18.25	18.01				
10	QPSK	1	49	17.83	18.11	18.08	19.5	0		
10	QPSK	25	0	17.97	18.30	18.08				
10	QPSK	25	12	18.06	18.24	18.02				
10	QPSK	25	25	17.91	17.93	18.00	19.5	0		
10	QPSK	50	0	17.90	18.12	17.91				
10	16QAM	1	0	17.87	17.86	17.88				
10	16QAM	1	25	17.89	18.07	17.79	19.5	0		
10	16QAM	1	49	17.77	17.84	17.94				
10	16QAM	25	0	18.06	18.16	18.27				
10	16QAM	25	12	17.92	18.05	18.12	19.5	0		
10	16QAM	25	25	18.04	18.31	18.12				
10	16QAM	50	0	18.03	18.03	18.10				
10	16QAM	1	0	17.75	17.96	17.75	19.5	0		
10	16QAM	1	25	17.87	17.74	17.87				
10	16QAM	1	49	17.53	17.82	17.63				
10	16QAM	25	0	17.96	18.24	18.03	19.5	0		
10	16QAM	25	12	18.08	18.09	17.92				
10	16QAM	25	25	18.08	18.23	17.98				
10	16QAM	50	0	18.07	17.99	18.00	19.5	0		
10	256QAM	1	0	17.70	17.86	18.05				
10	256QAM	1	25	17.84	17.85	17.76				
10	256QAM	1	49	17.82	17.83	17.88	19.5	0		
10	256QAM	25	0	17.90	18.25	18.08				
10	256QAM	25	12	17.98	18.17	18.07				
10	256QAM	25	25	17.96	18.13	18.05	19.5	0		
10	256QAM	50	0	17.90	18.10	17.87				
Channel										
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	18.10	18.26	18.22	19.5	0		
5	QPSK	1	12	17.91	18.15	17.83				
5	QPSK	1	24	17.86	18.10	18.18				
5	QPSK	12	0	18.05	18.11	18.14	19.5	0		
5	QPSK	12	7	17.97	18.21	18.22				
5	QPSK	12	13	17.80	17.87	17.83				
5	QPSK	25	0	17.93	18.07	17.81	19.5	0		
5	16QAM	1	0	17.84	17.86	17.87				
5	16QAM	1	12	17.71	17.97	17.85				
5	16QAM	1	24	17.74	17.71	18.05	19.5	0		
5	16QAM	12	0	18.11	18.14	18.24				
5	16QAM	12	7	17.88	18.14	18.03				
5	16QAM	12	13	18.01	18.17	18.23	19.5	0		
5	16QAM	25	0	18.10	18.07	17.87				
5	16QAM	1	0	17.91	17.90	17.75				
5	16QAM	1	12	17.75	17.86	17.79	19.5	0		
5	16QAM	1	24	17.87	17.89	17.80				
5	16QAM	12	0	18.08	18.17	18.09				
5	16QAM	12	7	17.93	18.23	17.99	19.5	0		
5	16QAM	12	13	18.23	18.30	17.97				
5	16QAM	25	0	18.08	18.02	18.08				
5	256QAM	1	0	17.94	17.93	17.91	19.5	0		
5	256QAM	1	12	17.79	17.83	17.85				
5	256QAM	1	24	17.82	17.81	17.78				
5	256QAM	12	0	18.14	18.28	18.02	19.5	0		
5	256QAM	12	7	17.89	18.08	17.93				
5	256QAM	12	13	18.03	18.17	17.88				
5	256QAM	25	0	17.86	17.86	17.92	19.5	0		

Band 38 Main PA Ant4 DSI0 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]				37860	38000	38150										
20	QPSK	1	0	19.25	19.37	19.38	19.7	0								
20	QPSK	1	49	19.02	19.27	19.31										
20	QPSK	1	99	19.18	18.95	19.09										
20	QPSK	50	0	19.04	19.15	19.38	19.7	0								
20	QPSK	50	24	19.01	19.14	19.34										
20	QPSK	50	50	19.02	18.85	19.01										
20	QPSK	100	0	19.06	19.13	19.38	19.7	0								
20	16QAM	1	0	19.11	19.17	19.00										
20	16QAM	1	49	19.06	19.27	19.29										
20	16QAM	50	0	19.06	19.25	19.36	19.7	0								
20	16QAM	50	0	19.06	19.09	19.35										
20	16QAM	50	24	18.98	18.97	18.79										
20	16QAM	100	0	19.00	19.25	19.38	19.7	0								
20	64QAM	1	0	18.71	18.71	18.64										
20	64QAM	1	49	18.93	18.73	18.50										
20	64QAM	1	99	18.77	18.73	18.65	19.7	0								
20	64QAM	50	0	19.02	19.21	19.13										
20	64QAM	50	24	18.86	18.95	18.88										
20	64QAM	50	50	18.90	19.25	19.21	19.7	0								
20	64QAM	100	0	19.11	19.02	19.14										
20	256QAM	1	0	18.92	19.07	19.18										
20	256QAM	1	49	18.90	19.02	19.07	19.7	0								
20	256QAM	1	99	19.08	18.98	18.89										
20	256QAM	50	0	19.03	19.00	18.93										
20	256QAM	50	24	19.03	18.88	18.98	19.7	0								
20	256QAM	50	50	19.02	18.97	18.81										
20	256QAM	100	0	19.04	19.09	18.93										
Channel																
Frequency [MHz]																
15	QPSK	1	0	19.35	19.29	19.10	19.7	0								
15	QPSK	1	37	18.86	19.26	19.15										
15	QPSK	1	74	18.99	18.93	18.98										
15	QPSK	36	0	18.97	19.19	18.95	19.7	0								
15	QPSK	36	20	18.88	19.10	18.87										
15	QPSK	36	39	19.08	19.00	18.84										
15	QPSK	75	0	19.01	19.21	18.92	19.7	0								
15	16QAM	1	0	19.21	19.15	19.06										
15	16QAM	1	37	19.08	19.07	19.23										
15	16QAM	1	74	19.23	19.14	19.00	19.7	0								
15	16QAM	36	0	18.96	19.12	18.89										
15	16QAM	36	39	19.08	19.04	19.32										
15	16QAM	36	39	19.00	19.17	19.12	19.7	0								
15	16QAM	75	0	18.75	19.13	19.07										
15	64QAM	1	0	18.71	18.71	18.68										
15	64QAM	1	37	18.58	18.71	18.55	19.7	0								
15	64QAM	1	74	18.73	18.68	18.76										
15	64QAM	36	0	19.08	19.15	19.15										
15	64QAM	36	20	18.85	19.01	19.36	19.7	0								
15	64QAM	36	39	18.96	19.21	19.19										
15	64QAM	75	0	18.91	19.13	19.01										
15	256QAM	1	0	19.09	19.14	19.11	19.7	0								
15	256QAM	1	37	18.92	19.15	18.93										
15	256QAM	1	74	19.01	19.15	18.98										
15	256QAM	36	0	19.13	19.05	18.93	19.7	0								
15	256QAM	36	20	18.83	19.02	18.89										
15	256QAM	36	39	18.91	19.07	19.01										
15	256QAM	75	0	18.97	19.03	19.07	19.7	0								
Channel																
Frequency [MHz]																
10	QPSK	1	0	19.15	19.32	19.25	19.7	0								
10	QPSK	1	25	18.95	19.20	19.20										
10	QPSK	1	49	19.22	19.04	18.87										
10	QPSK	25	0	19.01	19.14	19.02	19.7	0								
10	QPSK	25	12	19.06	19.09	18.74										
10	QPSK	25	25	19.02	19.07	18.92										
10	QPSK	50	0	19.08	19.09	19.04	19.7	0								
10	16QAM	1	0	19.15	19.11	19.02										
10	16QAM	1	25	19.09	19.12	19.27										
10	16QAM	1	49	19.25	19.05	19.00	19.7	0								
10	16QAM	25	0	18.87	19.10	18.95										
10	16QAM	25	12	18.94	19.09	18.56										
10	16QAM	25	25	19.07	19.19	19.14	19.7	0								
10	16QAM	50	0	18.73	18.97	19.14										
10	64QAM	1	0	18.61	18.66	18.69										
10	64QAM	1	25	18.97	18.65	18.57	19.7	0								
10	64QAM	1	49	18.71	18.56	18.73										
10	64QAM	25	0	19.09	19.19	19.37										
10	64QAM	25	12	18.90	19.02	18.99	19.7	0								
10	64QAM	25	25	19.05	19.07	19.25										
10	64QAM	50	0	19.12	19.04	18.95										
10	256QAM	1	0	18.97	19.04	19.11	19.7	0								
10	256QAM	1	25	18.94	19.23	18.89										
10	256QAM	1	49	18.90	19.08	18.99										
10	256QAM	25	0	19.06	19.06	19.08	19.7	0								
10	256QAM	25	12	19.03	18.98	18.98										
10	256QAM	25	25	18.85	19.14	18.88										
10	256QAM	50	0	19.04	19.01	19.10	19.7	0								
Channel																
Frequency [MHz]																
5	QPSK	1	0	19.21	19.31	19.18	19.7	0								
5	QPSK	1	12	19.04	19.17	19.20										
5	QPSK	1	24	19.04	19.03	18.85										
5	QPSK	12	0	19.06	19.27	18.96	19.7	0								
5	QPSK	12	7	18.90	18.95	18.94										
5	QPSK	12	19	19.07	19.02	18.89										
5	QPSK	25	0	19.14	19.14	18.91	19.7	0								
5	16QAM	1	0	19.06	19.26	19.19										
5	16QAM	1	12	18.95	19.31	19.22										
5	16QAM	1	24	19.29	19.07	19.00	19.7	0								
5	16QAM	12	0	18.86	19.08	19.02										
5	16QAM	12	7	18.82	18.88	18.94										
5	16QAM	12	19	19.06	19.05	19.03	19.7	0								
5	16QAM	25	0	18.74	18.97	19.04										

DSI 1 Power for WWAN Main PA

GSM850 Ant0 Default								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.93	33.09	33.05	34.00	23.93	24.09	24.05	25.00
GPRS 1 Tx slot	32.97	33.13	33.07	34.00	23.97	24.13	24.07	25.00
GPRS 2 Tx slots	30.09	30.12	30.04	31.00	24.09	24.12	24.04	25.00
GPRS 3 Tx slots	28.23	28.34	28.10	29.20	23.97	24.08	23.93	24.94
GPRS 4 Tx slots	26.91	26.95	26.88	28.00	23.91	23.95	23.88	25.00
EDGE 1 Tx slot	27.01	27.13	27.08	28.00	18.01	18.13	18.08	19.00
EDGE 2 Tx slots	24.17	24.25	24.10	25.00	18.17	18.25	18.10	19.00
EDGE 3 Tx slots	22.31	22.41	22.28	23.20	18.05	18.15	18.02	18.94
EDGE 4 Tx slots	21.12	21.17	21.04	22.00	18.12	18.17	18.04	19.00

WCDMA V Ant0 Default				
Band	WCDMA V			Tune-up Limit (dBm)
TX Channel	4132	4132	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	826.4	836.4	846.6	
3GPP Rel 99 AMR 12.2kbps	23.98	24.11	24.08	25.00
3GPP Rel 99 RMC 12.2kbps	24.04	24.16	24.13	25.00
3GPP Rel 6 HSDPA Subtest-1	23.15	23.15	23.11	24.00
3GPP Rel 6 HSDPA Subtest-2	23.09	23.15	23.07	24.00
3GPP Rel 6 HSDPA Subtest-3	22.54	22.69	22.61	23.50
3GPP Rel 6 HSDPA Subtest-4	22.56	22.63	22.57	23.50
3GPP Rel 8 DC-HSDPA Subtest-1	23.03	23.14	23.10	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	23.04	23.14	23.06	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	22.45	22.60	22.53	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	22.43	22.58	22.50	23.50
3GPP Rel 6 HSUPA Subtest-1	22.98	23.03	23.05	24.00
3GPP Rel 6 HSUPA Subtest-2	21.08	21.21	21.06	22.00
3GPP Rel 6 HSUPA Subtest-3	22.09	22.26	22.21	23.00
3GPP Rel 6 HSUPA Subtest-4	21.06	21.11	21.03	22.00
3GPP Rel 6 HSUPA Subtest-5	23.02	23.11	23.05	24.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	20.57	20.76	20.64	21.50

Band 5 Main PA Ant0														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	APPR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	24.45	24.56	24.50	25.5	0						
10	QPSK	1	25	24.40	24.48	24.43								
10	QPSK	1	49	24.35	24.52	24.34								
10	QPSK	25	0	23.48	23.55	23.54	24.5	1						
10	QPSK	25	12	23.43	23.47	23.50								
10	QPSK	25	25	23.34	23.50	23.49								
10	QPSK	50	0	23.43	23.54	23.47	24.5	1						
10	16QAM	1	0	23.79	23.84	23.79								
10	16QAM	1	25	23.72	23.71	23.68								
10	16QAM	1	49	23.68	23.73	23.69	23.5	2						
10	16QAM	25	0	22.39	22.52	22.41								
10	16QAM	25	12	22.37	22.48	22.39								
10	16QAM	25	25	22.36	22.44	22.34	22.5	2						
10	16QAM	50	0	22.30	22.48	22.31								
10	84QAM	1	0	22.59	22.68	22.58								
10	84QAM	1	25	22.49	22.59	22.54	20.5	2						
10	84QAM	1	49	22.51	22.57	22.44								
10	84QAM	25	0	21.38	21.46	21.39								
10	84QAM	25	12	21.32	21.48	21.38	22.5	3						
10	84QAM	25	25	21.28	21.37	21.36								
10	84QAM	50	0	21.23	21.51	21.28								
10	256QAM	1	0	19.41	19.56	19.51	20.5	5						
10	256QAM	1	25	19.38	19.96	19.43								
10	256QAM	1	49	19.38	19.56	19.44								
10	256QAM	25	0	19.33	19.45	19.37	20.5	5						
10	256QAM	25	12	19.24	19.49	19.24								
10	256QAM	25	25	19.34	19.40	19.34								
10	256QAM	50	0	19.43	19.49	19.41	20.5	5						
Channel														
828.5 836.5 846.5														
5	QPSK	1	0	24.32	24.32	24.41	25.5	0						
5	QPSK	1	12	24.31	24.43	24.40								
5	QPSK	1	24	24.29	24.40	24.22								
5	QPSK	12	0	23.36	23.53	23.45	24.5	1						
5	QPSK	12	7	23.39	23.36	23.38								
5	QPSK	12	13	23.20	23.37	23.28								
5	QPSK	25	0	23.36	23.48	23.38	24.5	1						
5	16QAM	1	0	23.76	23.79	23.72								
5	16QAM	1	12	23.69	23.60	23.54								
5	16QAM	1	24	23.58	23.51	23.52	23.5	2						
5	16QAM	12	0	22.29	22.44	22.32								
5	16QAM	12	7	22.27	22.39	22.27								
5	16QAM	25	0	22.27	22.38	22.25	22.5	2						
5	84QAM	1	0	22.48	22.81	22.42								
5	84QAM	1	12	22.46	22.81	22.42								
5	84QAM	1	24	22.44	22.82	22.35	22.5	3						
5	84QAM	12	0	21.33	21.34	21.53								
5	84QAM	12	7	21.36	21.41	21.28								
5	84QAM	12	13	21.33	21.37	21.24	23.5	2						
5	84QAM	25	0	22.27	22.38	22.25								
5	84QAM	25	12	22.27	22.39	22.27								
5	84QAM	25	25	22.27	22.38	22.25	20.5	5						
5	256QAM	1	0	22.48	22.81	22.42								
5	256QAM	1	12	22.46	22.81	22.42								
5	256QAM	1	24	22.44	22.82	22.35	22.5	3						
5	256QAM	12	0	21.33	21.34	21.53								
5	256QAM	12	7	21.36	21.41	21.28								
5	256QAM	12	13	21.33	21.37	21.24	20.5	5						
5	256QAM	25	0	22.27	22.38	22.25								
5	256QAM	25	12	22.27	22.39	22.27								
5	256QAM	25	25	22.27	22.38	22.25	20.5	5						
5	84QAM	1	0	22.48	22.81	22.42								
5	84QAM	1	12	22.46	22.81	22.42								
5	84QAM	1	24	22.44	22.82	22.35	22.5	3						
5	84QAM	12	0	21.33	21.34	21.53								
5	84QAM	12	7	21.36	21.41	21.28								
5	84QAM	12	13	21.33	21.37	21.24	23.5	2						
5	84QAM	25	0	22.27	22.38	22.25								
5	84QAM	25	12	22.27	22.39	22.27								
5	84QAM	25	25	22.27	22.38	22.25	20.5	5						
5	256QAM	1	0	22.48	22.81	22.42								
5	256QAM	1	12	22.46	22.81	22.42								
5	256QAM	1	24	22.44	22.82	22.35	22.5	3						
5	256QAM	12	0	21.33	21.34	21.53								
5	256QAM	12	7	21.36	21.41	21.28								
5	256QAM	12	13	21.33	21.37	21.24	23.5	2						
5	256QAM	25	0	22.27	22.38	22.25								
5	256QAM	25	12	22.27	22.39	22.27								
5	256QAM	25	25	22.27	22.38	22.25	20.5	5						
5	84QAM	1	0	22.48	22.81	22.42								
5	84QAM	1	12	22.46	22.81	22.42								
5	84QAM	1	24	22.44	22.82	22.35	22.5	3						
5	84QAM	12	0	21.33	21.34	21.53								
5	84QAM	12	7	21.36	21.41	21.28								
5	84QAM	12	13	21.33	21.37	21.24	23.5	2						
5	84QAM	25	0	22.27	22.38	22.25								
5	84QAM	25	12	22.27	22.39	22.27								
5	84QAM	25	25	22.27	22.38	22.25	20.5	5						
5	256QAM	1	0	22.48	22.81	22.42								
5	256QAM	1	12	22.46	22.81	22.42								
5	256QAM	1	24	22.44	22.82	22.35	22.5	3						
5	256QAM	12	0	21.33	21.34	21.53								
5	256QAM	12	7	21.36	21.41	21.28								
5	256QAM	12	13	21.33	21.37	21.24	23.5	2						
5	256QAM	25	0	22.27	22.38	22.25								
5	256QAM	25	12	22.27	22.39	22.27								
5	256QAM	25	25	22.27	22.38	22.25	20.5	5						
5	84QAM	1	0	22.48	22.81	22.42								
5	84QAM	1	12	22.46	22.81	22.42								
5	84QAM	1	24	22.44	22.82	22.35	22.5	3						
5	84QAM	12	0	21.33	21.34	21.53								
5	84QAM	12	7	21.36	21.41	21.28								
5	84QAM	12	13	21.33	21.37	21.24	23.5	2						
5	84QAM	25	0	22.27	22.38	22.25								
5	84QAM	25	12	22.27	22.39	22.27								
5	84QAM	25	25	22.27	22.38	22.25	20.5	5						
5	256QAM	1	0	22.48	22.81	22.42								
5	256QAM	1	12	22.46	22.81	22.42								
5	256QAM	1	24	22.44	22.82	22.35	22.5	3						
5	256QAM	12	0	21.33	21.34	21.53								
5	256QAM	12	7	21.36	21.41	21.28								
5	256QAM	12	13	21.33	21.37	21.24	23.5	2						
5	256QAM	25	0	22.27	22.38	22.25								
5	256QAM	25	12	22.27	22.39	22.27								
5	256QAM	25	25	22.27	22.38	22.25	20.5	5						
5	84QAM	1	0	22.48	22.81	22.42								
5	84QAM	1	12	22.46	22.81	22.42								
5	84QAM	1	24	22.44	22.82	22.35	22.5	3						
5	84QAM	12	0	21.33	21.34	21.53								
5	84QAM	12	7	21.36	21.41	21.28								
5	84QAM	12	13	21.33	21.37	21.24	23.5	2						
5	84QAM	25	0	22.27	22.38	22.25								
5	84QAM	25	12	22.27	22.39	22.27								
5	84QAM	25	25	22.27	22.38	22.25	20.5	5						
5	256QAM	1	0	22.48	22.81	22.42								
5	256QAM	1	12	22.46	22.81	22.42								
5	256QAM	1	24	22.44	22.82	22.35	22.5	3						
5	256QAM	12	0	21.33	21.34	21.53								
5	256QAM	12	7	21.36	21.41	21.28								
5	256QAM	12	13	21.33	21.37	21.24	23.5	2						
5	256QAM	25	0	22.27	22.38	22.25								
5	256QAM	25	12	22.27	22.39	22.27								
5	256QAM	25	25	22.27	22.38	22.25	20.5	5						
5	84QAM	1	0	22.48	22.81	22.42								
5	84QAM	1	12	22.46	22.81	22.42								
5	84QAM	1	24	22.44	22.82	22.35	22.5	3						
5	84QAM	12	0	21.33	21.34	21.53								
5	84QAM	12	7	21.36	21.41	21.28								
5	84QAM	12	13	21.33	21.37	21.24	23.5	2						
5	84QAM	25	0	22.27	22.38	22.25								
5	84QAM	25	12	22.27	22.39	22.27								
5	84QAM	25	25	22.27	22.38	22.25	20.5	5						
5	256QAM	1	0	22.48	22.81	22.42								
5	256QAM	1	12	22.46	22.81	22.42								
5	256QAM	1	24	22.44	22.82	22.35	22.5	3						
5	256QAM	12	0	21.33	21.34	21.53								
5	256QAM	12	7	21.36	21.41	21.28								
5	256QAM	12	13	21.33	21.37	21.24	23.5	2						
5	256QAM	25	0	22.27	22.38	22.25								
5	256QAM	25	12	22.27	22.39	22.27								
5	256QAM	25	25	22.27	22.38	22.25	20.5	5						
5	84QAM	1	0	22.48	22.81	22.42								
5	84QAM	1	12	22.46	22.81	22.42								
5	84QAM	1	24	22.44	22.82	22.35	22.5	3						
5	84QAM	12	0	21.33	21.34	21.53								
5	84QAM	12	7	21.36	21.41	21.28								
5	84QAM	12	13	21.33	21.37	21.24	23.5	2						
5	84QAM	25	0	22.27	22.38	22.25								
5	84QAM	25	12	22.27	22.39	22.27								
5	84QAM	25	25	22.27	22.38	22.25	20.5	5						
5	256QAM	1	0	22.48	22.81	22.42								
5	256QAM	1	12	22.46	22.81	22.42								
5	256QAM	1	24	22.44	22.82	22.35	22.5	3						
5	256QAM	12	0	21.33	21.34	21.53								
5	256QAM	12	7	21.36	21.41	21.28								
5	256QAM	12	13	21.33	21.37	21.2								

Band 26 Main PA Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turnup limit (dBm)	APPR (dB)		
Channel				2670.5	2666.5	2666.5	25.5	0		
Frequency (MHz)				819	831.5	844				
15	QPSK	1	0	24.52	24.55	24.49				
15	QPSK	1	31	24.45	24.51	24.42	24.5	1		
15	QPSK	1	74	24.41	24.53	24.47				
15	QPSK	36	0	23.48	23.63	23.52				
15	QPSK	36	20	23.43	23.55	23.50	24.5	1		
15	QPSK	36	39	23.52	23.60	23.51				
15	QPSK	75	0	23.54	23.57	23.47				
15	16QAM	1	0	23.48	23.56	23.45	24.5	1		
15	16QAM	1	31	23.35	23.51	23.37				
15	16QAM	1	74	23.42	23.54	23.47				
15	16QAM	36	0	22.42	22.47	22.42	23.5	2		
15	16QAM	36	20	22.45	22.50	22.49				
15	16QAM	36	39	22.53	22.57	22.43				
15	16QAM	75	0	22.50	22.54	22.49	23.5	2		
15	64QAM	1	0	22.59	22.70	22.58				
15	64QAM	1	31	22.53	22.68	22.54				
15	64QAM	1	74	22.55	22.56	22.50	22.5	3		
15	64QAM	36	0	21.25	21.37	21.34				
15	64QAM	36	20	21.41	21.55	21.43				
15	64QAM	36	39	21.45	21.52	21.44	20.5	5		
15	64QAM	75	0	19.58	19.69	19.58				
15	256QAM	1	0	19.42	19.57	19.49				
15	256QAM	1	31	19.45	19.60	19.45	20.5	5		
15	256QAM	1	74	19.60	19.74	19.69				
15	256QAM	36	0	19.35	19.42	19.35				
15	256QAM	36	20	19.48	19.52	19.43	20.5	5		
15	256QAM	36	39	19.46	19.55	19.50				
15	256QAM	75	0	19.38	19.51	19.47				
Channel				2671.5	2666.5	2666.5	25.5	0		
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	24.42	24.44	24.36	25.5	0		
10	QPSK	1	25	24.39	24.46	24.31				
10	QPSK	1	49	24.28	24.42	24.42				
10	QPSK	25	0	23.43	23.52	23.46	24.5	1		
10	QPSK	25	12	23.29	23.45	23.40				
10	QPSK	25	25	23.48	23.48	23.47				
10	QPSK	50	0	23.42	23.49	23.43	24.5	1		
10	16QAM	1	0	23.41	23.48	23.39				
10	16QAM	1	25	23.33	23.47	23.31				
10	16QAM	1	49	23.35	23.51	23.34	24.5	1		
10	16QAM	25	0	22.36	22.35	22.38				
10	16QAM	25	12	22.35	22.56	22.38				
10	16QAM	25	25	22.40	22.44	22.38	23.5	2		
10	64QAM	1	0	22.51	22.58	22.52				
10	64QAM	1	25	22.50	22.63	22.45				
10	64QAM	1	49	22.53	22.51	22.54	22.5	2		
10	64QAM	25	0	21.18	21.31	21.25				
10	64QAM	25	12	21.32	21.53	21.37				
10	64QAM	25	25	21.32	21.35	21.34	20.5	5		
10	64QAM	50	0	21.34	21.50	21.33				
10	256QAM	1	0	19.45	19.53	19.50				
10	256QAM	1	25	19.32	19.42	19.42	20.5	5		
10	256QAM	1	49	19.54	19.65	19.55				
10	256QAM	25	0	19.36	19.26	19.33				
10	256QAM	25	12	19.43	19.41	19.29	20.5	5		
10	256QAM	25	25	19.39	19.48	19.36				
10	256QAM	50	0	19.28	19.40	19.39				
Channel				2671.5	2666.5	2702.5	25.5	0		
Frequency (MHz)				816.5 <th>831.5<th>846.5</th></th>	831.5 <th>846.5</th>	846.5				
5	QPSK	1	0	24.44	24.46	24.48	25.5	0		
5	QPSK	1	12	24.32	24.38	24.25				
5	QPSK	1	24	24.34	24.45	24.39				
5	QPSK	12	0	23.45	23.57	23.46	24.5	1		
5	QPSK	12	7	23.29	23.45	23.45				
5	QPSK	12	13	23.48	23.53	23.38				
5	QPSK	36	0	23.42	23.47	23.39	24.5	1		
5	16QAM	1	0	23.41	23.44	23.33				
5	16QAM	1	12	23.21	23.44	23.22				
5	16QAM	1	24	23.37	23.45	23.34	24.5	1		
5	16QAM	12	0	22.34	22.44	22.34				
5	16QAM	12	7	22.35	22.55	22.42				
5	16QAM	12	13	22.47	22.45	22.79	23.5	2		
5	16QAM	25	0	22.38	22.35	22.45				
5	64QAM	1	0	22.54	22.59	22.53				
5	64QAM	1	14	22.50	22.54	22.46	22.5	3		
5	64QAM	1	24	22.52	22.89	22.79				
5	64QAM	12	0	21.20	21.30	21.21				
5	64QAM	12	7	21.31	21.43	21.37	22.5	3		
5	64QAM	12	13	21.38	21.42	21.37				
5	64QAM	25	0	21.27	21.45	21.39				
5	256QAM	1	0	19.45	19.51	19.45	20.5	5		
5	256QAM	1	12	19.29	19.53	19.36				
5	256QAM	1	24	19.54	19.66	19.55				
5	256QAM	12	0	19.24	19.31	19.26	20.5	5		
5	256QAM	12	7	19.36	19.41	19.37				
5	256QAM	12	13	19.35	19.42	19.43				
5	256QAM	25	0	19.32	19.38	19.38	26.67	26.66		
Channel				2670.5	2666.5	2702.5				
Frequency (MHz)				815.5 <th>831.5<th>847.5</th></th>	831.5 <th>847.5</th>	847.5				
3	QPSK	1	0	24.48	24.52	24.57	25.5	0		
3	QPSK	1	8	24.37	24.42	24.32				
3	QPSK	1	14	24.34	24.45	24.43				
3	QPSK	8	0	23.34	23.51	23.42	24.5	1		
3	QPSK	8	4	23.29	23.45	23.36				
3	QPSK	8	7	23.37	23.46	23.43				
3	QPSK	15	0	23.46	23.52	23.42	24.5	1		
3	16QAM	1	0	23.44	23.52	23.37				
3	16QAM	1	8	23.27	23.45	23.31				
3	16QAM	1	14	23.30	23.45	23.36	24.5	1		
3	16QAM	8	0	22.34	22.42	22.32				
3	16QAM	8	4	22.42	22.54	22.42				
3	16QAM	8	7	22.43	22.53	22.38	23.5	2		
3	16QAM	15	0	22.37	22.47	22.46				
3	16QAM	15	8	22.46	22.57	22.44				
3	16QAM	1	8	22.48	22.61	22.50	20.5	2		
3	16QAM	1	14	22.79	22.86	22.76				
3	16QAM	8	4	21.13	21.28	21.21				
3	16QAM	8	7	21.36	21.38	21.34	20.5	5		
3	16QAM	15	0	21.28	21.45	21.36				
3	256QAM	1	0	19.43	19.56	19.55				
3	256QAM	1	8	19.30	19.45	19.39	20.5	5		
3	256QAM	1	14	19.46	19.71	19.61				
3	256QAM	8	0	19.26	19.36	19.35				
3	256QAM	8	4	19.38	19.29	19.29	20.5	5		
3	256QAM	8	7	19.40	19.38	19.38				
3	256QAM	15	0	19.34	19.48	19.43				
Channel				2669.7	2666.5	2703.3	25.5	0		
Frequency (MHz)				815.5 <th>831.5<th>847.5</th></th>	831.5 <th>847.5</th>	847.5				
1.4	QPSK	1	0	24.44	24.54	24.46	25.5	0		
1.4	QPSK	1	3	24.34	24.38	24.36				
1.4	QPSK	1	5	24.35	24.50	24.41				
1.4	QPSK	3	0	24.41	24.46	24.44	24.5	1		
1.4	QPSK	3	1	24.37	24.45	24.38				
1.4	QPSK	3	2	24.34	24.59	24.34				
1.4	QPSK	15	0	23.33	23.45	23.35	24.5	1		
1.4	QPSK	15	3	23.34	23.45	23.36				
1.4	QPSK	15	5	23.47	23.54	23.34				
1.4	16QAM	1	0	23.38	23.42	23.40	24.5	1		
1.4	16QAM	3	1	23.38	23.43	23.32				
1.4	16QAM	3	2	23.30	23.48	23.44				
1.4	16QAM	6	0	22.38	22.40	22.32	23.5	2		
1.4	16QAM	6	3	22.49	22.47	22.41				
1.4	16QAM	6	5	22.43	22.47	22.42				
1.4	16QAM	1	6	22.43	22.48	22.38	23.5	2		
1.4	16QAM	3	3	22.59	22.49	22.47				
1.4	16QAM	3	5	22.50	22.59	22.47				
1.4	16QAM	3	3	22.56	22.79	22.75	22.5	3		
1.4	16QAM	6	3	21.60	21.65	21.58				
1.4	16QAM	6	5	19.54	19.61	19.45				
1.4	16QAM	3	3	19.35	19.48	19.46	20.5	5		
1.4	16QAM	3	5	19.44	19.54	19.66				
1.4	16QAM	6	0	19.32	19.38	19.27				
1.4	256QAM	3	3	19.34	19.49	19.33	20.5	5		
1.4	256QAM	3	5	19.43	19.43	19.48				
1.4	256QAM	6	0	19.28	19.47	19.40				
1.4	256QAM	6	0	19.28	19.47	19.40	20.5	5		

GSM850 Ant1 Default								
GSM850 TX Channel Frequency (MHz)	Burst-Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.02	32.11	32.02	33.50	23.02	23.11	23.02	24.50
GPRS 1 Tx slot	32.05	32.16	32.08	33.50	23.05	23.16	23.08	24.50
GPRS 2 Tx slots	29.21	29.24	29.17	30.50	23.21	23.24	23.17	24.50
GPRS 3 Tx slots	27.40	27.44	27.34	28.50	23.14	23.18	23.08	24.24
GPRS 4 Tx slots	25.97	26.07	26.00	27.50	22.97	23.07	23.00	24.50
EDGE 1 Tx slot	26.21	26.25	26.11	27.50	17.21	17.25	17.11	18.50
EDGE 2 Tx slots	23.24	23.29	23.16	24.50	17.24	17.29	17.16	18.50
EDGE 3 Tx slots	21.40	21.53	21.48	22.70	17.14	17.27	17.22	18.44
EDGE 4 Tx slots	20.15	20.28	20.24	21.50	17.15	17.28	17.24	18.50

		GSM1900 Ant1 Default						
GSM1800		Burst-Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)		
TX Channel		512	661	810		512	661	810
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8
GSM 1 Tx slot		28.13	28.19	28.15	30.00	19.13	19.19	19.15
GPRS 1 Tx slot		28.16	28.24	28.22	30.00	19.16	19.24	19.22
GPRS 2 Tx slots		25.27	25.31	25.25	27.00	19.27	19.31	19.25
GPRS 3 Tx slots		23.88	23.96	23.87	25.20	19.62	19.70	19.61
GPRS 4 Tx slots		22.35	22.47	22.37	24.00	19.35	19.47	19.37
EDGE 1 Tx slot		24.79	24.88	24.82	26.00	15.79	15.88	15.82
EDGE 2 Tx slots		21.97	22.07	21.93	23.00	15.97	16.07	15.93
EDGE 3 Tx slots		19.90	20.03	19.89	21.20	15.64	15.77	15.63
EDGE 4 Tx slots		19.20	19.26	19.21	20.00	16.20	16.26	16.21

		WCDMA II Ant1 DS1					WCDMA IV Ant1 Default					WCDMA V Ant1 Default				
Band		WCDMA II			Tune-up Limit (dBm)		WCDMA IV			Tune-up Limit (dBm)		WCDMA V			Tune-up Limit (dBm)	
TX Channel		9262	9400	9538			1312	1413	1513			4132	4182	4233		
Rx Channel		9662	9800	9938			1537	1638	1738			4357	4407	4458		
Frequency (MHz)		1852.4	1880	1907.6			1712.4	1732.6	1752.6			826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2kbps	19.53	19.55	19.53	21.50	22.02	22.12	22.07	24.00	23.22	23.32	23.29	25.00			
3GPP Rel 99	RMC 12.2kbps	19.52	19.67	19.58	21.50	22.10	22.19	22.13	24.00	23.27	23.36	23.35	25.00			
3GPP Rel 6	HSDPA Subtest-1	18.55	18.62	18.50	20.50	21.15	21.23	21.20	23.00	22.36	22.34	22.35	24.00			
3GPP Rel 6	HSDPA Subtest-2	18.51	18.59	18.56	20.50	21.06	21.09	21.06	23.00	22.23	22.35	22.31	24.00			
3GPP Rel 6	HSDPA Subtest-3	18.04	18.07	18.15	20.00	20.60	20.69	20.65	22.50	21.76	21.84	21.88	23.50			
3GPP Rel 6	HSDPA Subtest-4	18.01	18.07	18.01	20.00	20.50	20.61	20.55	22.50	21.72	21.85	21.83	23.50			
3GPP Rel 8	DC-HSDPA Subtest-1	18.59	18.58	18.52	20.50	21.04	21.16	21.09	23.00	22.28	22.31	22.34	24.00			
3GPP Rel 8	DC-HSDPA Subtest-2	18.53	18.53	18.59	20.50	21.16	21.13	21.02	23.00	22.17	22.29	22.19	24.00			
3GPP Rel 8	DC-HSDPA Subtest-3	18.07	18.10	18.02	20.00	20.56	20.59	20.52	22.50	21.73	21.81	21.86	23.50			
3GPP Rel 8	DC-HSDPA Subtest-4	18.06	18.24	18.06	20.00	20.56	20.60	20.54	22.50	21.65	21.82	21.72	23.50			
3GPP Rel 6	HSUPA Subtest-1	18.60	18.55	18.57	20.50	21.01	21.10	21.01	23.00	22.15	22.22	22.19	24.00			
3GPP Rel 6	HSUPA Subtest-2	16.58	16.53	16.57	18.50	19.11	19.16	19.05	21.00	20.24	20.38	20.35	22.00			
3GPP Rel 6	HSUPA Subtest-3	17.61	17.66	17.68	19.50	20.13	20.24	20.24	22.00	21.39	21.45	21.43	23.00			
3GPP Rel 6	HSUPA Subtest-4	16.53	16.50	16.52	18.50	19.06	19.03	19.07	21.00	20.20	20.24	20.26	22.00			
3GPP Rel 6	HSUPA Subtest-5	18.55	18.53	18.63	20.50	21.05	21.11	21.04	23.00	22.14	22.33	22.18	24.00			
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	16.07	16.30	16.06	18.00	18.62	18.70	18.63	20.50	19.78	20.00	19.84	21.50			

Band 4 Main PA Ant1 DS1												
SW (MHz)	Modulation	RB Size	RB Offset	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Turn-up (dB)	MFR (dB)	
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.50	22.37	22.37	22.43					
20	QPSK	1	48	22.37	22.43	22.43	22.36			24	0	
20	QPSK	50	0	21.75	21.85	21.85	21.72					
20	QPSK	50	24	21.65	21.79	21.73	21.63			23.5	0.5	
20	QPSK	50	48	21.65	21.79	21.73	21.63					
20	QPSK	100	0	21.72	21.83	21.83	21.68					
20	QPSK	1	0	21.80	21.87	21.87	21.82			23.5	0.5	
20	QPSK	1	48	21.80	21.87	21.87	21.82					
20	QPSK	1	96	21.72	21.81	21.81	21.68					
20	QPSK	50	0	20.80	20.94	20.93	20.87			22.5	1.5	
20	QPSK	50	24	20.80	20.94	20.93	20.87					
20	QPSK	50	48	20.80	20.94	20.93	20.87					
20	QPSK	100	0	20.86	20.94	20.94	20.81					
20	QPSK	1	48	20.76	20.80	20.76	20.65			22.5	1.5	
20	QPSK	1	96	20.65	20.78	20.75	20.67					
20	QPSK	50	24	19.58	19.78	19.78	19.58			21.5	2.5	
20	QPSK	50	48	19.72	19.75	19.75	19.68					
20	QPSK	100	0	19.52	19.52	19.52	19.47			19.5	4.0	
20	QPSK	1	0	17.86	17.71	17.71	17.57					
20	QPSK	1	48	17.86	17.71	17.71	17.57					
20	QPSK	1	96	17.57	17.63	17.54	17.54					
20	QPSK	50	0	17.84	17.73	17.73	17.59					
20	QPSK	50	24	17.84	17.73	17.73	17.59					
20	QPSK	50	48	17.66	17.69	17.65	17.58					
20	QPSK	100	0	17.62	17.67	17.61	17.53			Turn-up (dB)	MFR (dB)	
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.41	22.49	22.49	22.43					
15	QPSK	1	48	22.22	22.45	22.41	22.36			24	0	
15	QPSK	50	0	22.42	22.49	22.49	22.43					
15	QPSK	50	24	21.72	21.71	21.71	21.67			23.5	0.5	
15	QPSK	50	48	21.65	21.69	21.69	21.63					
15	QPSK	36	0	21.57	21.64	21.64	21.54			23.5	0.5	
15	QPSK	36	24	21.57	21.64	21.64	21.54					
15	QPSK	75	0	21.59	21.78	21.58	21.58			23.5	0.5	
15	QPSK	75	24	21.59	21.78	21.58	21.58					
15	QPSK	1	0	21.72	21.72	21.72	21.72			23.5	0.5	
15	QPSK	1	36	21.68	21.67	21.58	21.58					
15	QPSK	1	72	21.68	21.67	21.58	21.58					
15	QPSK	36	24	20.65	20.70	20.63	20.63			22.5	1.5	
15	QPSK	36	36	20.65	20.65	20.56	20.56					
15	QPSK	36	72	20.61	20.61	20.56	20.56					
15	QPSK	1	0	20.70	20.81	20.81	20.81			22.5	1.5	
15	QPSK	1	36	20.68	20.73	20.73	20.68					
15	QPSK	1	72	20.68	20.73	20.73	20.68					
15	QPSK	36	0	19.55	19.68	19.62	19.62					
15	QPSK	36	24	19.60	19.72	19.59	19.59			21.5	2.5	
15	QPSK	36	48	19.58	19.68	19.62	19.62					
15	QPSK	75	0	19.56	19.65	19.54	19.54					
15	QPSK	75	24	19.56	19.65	19.54	19.54					
15	QPSK	1	0	17.70	17.74	17.65	17.65			19.5	4.5	
15	QPSK	1	36	17.68	17.74	17.65	17.65					
15	QPSK	1	72	17.58	17.68	17.61	17.61			19.5	4.5	
15	QPSK	36	24	17.61	17.71	17.65	17.65					
15	QPSK	36	48	17.58	17.68	17.61	17.61					
15	QPSK	75	0	17.71	17.78	17.63	17.63					
15	QPSK	75	24	17.71	17.78	17.63	17.63					
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.47	22.59	22.59	22.46					
5	QPSK	1	12	22.42	22.37	22.35	22.35			24	0	
5	QPSK	1	24	22.20	22.33	22.31	22.31					
5	QPSK	8	0	21.85	21.75	21.68	21.68			23.5	0.5	
5	QPSK	8	4	21.60	21.71	21.63	21.63			23.5	0.5	
5	QPSK	15	0	21.86	21.70	21.63	21.63					
5	QPSK	15	8	21.75	21.82	21.75	21.65			23.5	0.5	
5	QPSK	15	16	21.62	21.74	21.68	21.68					
5	QPSK	12	0	21.74	21.79	21.74	21.74			23.5	0.5	
5	QPSK	12	8	21.65	21.72	21.74	21.74					
5	QPSK	12	16	20.65	20.81	20.87	20.87			22.5	1.5	
5	QPSK	12	24	20.65	20.81	20.87	20.87					
5	QPSK	12	19	20.64	20.76	20.80	20.80			22.5	1.5	
5	QPSK	12	36	20.57	20.61	20.57	20.57					
5	QPSK	12	54	20.57	20.72	20.72	20.72			22.5	1.5	
5	QPSK	1	12	20.69	20.71	20.67	20.67					
5	QPSK	1	24	20.57	20.64	20.68	20.68					
5	QPSK	1	36	20.57	20.68	20.71	20.71					
5	QPSK	12	7	19.53	19.64	19.58	19.58			21.5	2.5	
5	QPSK	12	13	19.54	19.64	19.58	19.58					
5	QPSK	12	19	19.54	19.64	19.58	19.58					
5	QPSK	1	0	17.65	17.77	17.67	17.67			19.5	4.5	
5	QPSK	1	12	17.64	17.73	17.61	17.61					
5	QPSK	1	24	17.65	17.73	17.61	17.61					
5	QPSK	12	0	17.65	17.77	17.67	17.67			19.5	4.5	
5	QPSK	12	7	17.60	17.63	17.53	17.53					
5	QPSK	12	13	17.60	17.75	17.68	17.68					
5	QPSK	12	19	17.55	17.65	17.57	17.57					
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.50	22.50	22.46	22.46					
3	QPSK	1	8	22.33	22.43	22.43	22.36			24	0	
3	QPSK	8	0	22.20	22.38	22.38	22.31					
3	QPSK	8	4	21.85	21.75	21.68	21.68			23.5	0.5	
3	QPSK	8	8	21.60	21.71	21.63	21.63			23.5	0.5	
3	QPSK	15	0	21.86	21.70	21.63	21.63					
3	QPSK	15	8	21.75	21.82	21.75	21.65			23.5	0.5	
3	QPSK	15	16	21.62	21.74	21.68	21.68					
3	QPSK	1	14	21.68	21.72	21.57	21.57			22.5	1.5	
3	QPSK	8	0	20.73	20.77	20.64	20.64					
3	QPSK	8	4	20.68	20.83	20.83	20.83					
3	QPSK	8	7	20.64	20.71	20.58	20.58					
3	QPSK	15	0	20.71	20.75	20.62	20.62			22.5	1.5	
3	QPSK	15	8	20.73	20.79	20.63	20.63					
3	QPSK	1	8	20.66	20.68	20.73	20.73			22.5	1.5	
3	QPSK	1	16	20.66	20.73	20.73	20.73					
3	QPSK	8	8	19.58	19.75	19.74	19.74					
3	QPSK	8	4	19.62	19.69	19.58	19.58			21.5	2.5	
3	QPSK	8	7	19.62	19.69	19.58	19.58					
3	QPSK	15	0	19.51	19.69	19.59	19.59					
3	QPSK	1	0	17.67	17.72	17.63	17.63			19.5	4.5	
3	QPSK	1	8	17.62	17.66	17.54	17.54					
3	QPSK	1	14	17.63	17.65	17.57	17.57			19.5	4.5	
3	QPSK	8	0	17.65	17.69	17.58	17.58					
3	QPSK	8	7	17.63	17.71	17.61	17.61			19.5	4.5	
3	QPSK	8	7	17.62	17.75	17.66	17.66					
3	QPSK	15	0	17.54	17.73	17.67	17.67					
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.47	22.54	22.43	22.43					
1.4	QPSK	1	8	22.26	22.38	22.32	22.32			24	0	
1.4	QPSK	8	0	22.25	22.41	22.35	22.35					
1.4	QPSK	8	4	22.06	22.45	22.43	22.43					
1.4	QPSK	15	0	22.33	22.33	22.28	22.28					
1.4	QPSK	3	0	22.25	22.35	22.27	22.27					
1.4	QPSK	6	0	21.83	21.82	21.62	21.62			23.5	0.5	
1.4	QPSK	6	4	21.62	21.80	21.78	21.78			23.5	0.5	
1.4	QPSK	1	3	21.80	21.68	21.52	21.52					
1.4	QPSK	1	5	21.61	21.71	21.59	21.59					
1.4	QPSK	3	0	21.77	21.80	21.71	21.71			22.5	1.5	
1.4	QPSK	3	4	21.58	21.73	21.70	21.70					
1.4	QPSK	3	7	21.59	21.70	21.58	21.58			22.5	1.5	
1.4	QPSK	3	8	21.71	21.71	21.57	21.57					
1.4	QPSK	1	0	20.57	20.72	20.68	20.68					
1.4	QPSK	1	8	20.60	20.65	20.57	20.57			22.5	1.5	
1.4	QPSK	3	0	20.67	20.77	20.67	20.67					
1.4	QPSK	3	3	20.61	20.72	20.57	20.57					

Band 5 Main PA Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Channel 20460	Power Level Channel 20520	Power Level Channel 20600	Time-slot (sub-frames)	MPR (dB)		
Channel										
10	QPSK	1	0	-23.68	-23.75	-23.68				
10	QPSK	1	26	-23.62	-23.67	-23.65			25.5	0
10	QPSK	1	49	-23.59	-23.62	-23.58				
10	QPSK	1	72	-23.58	-23.60	-23.56			25.5	0
10	QPSK	25	12	-22.56	-22.64	-22.54			24.5	1
10	QPSK	25	25	-22.56	-22.59	-22.56				
10	QPSK	25	38	-22.58	-22.60	-22.54				
10	QPSK	1	0	-23.14	-23.28	-23.14			24.5	1
10	QPSK	1	26	-23.10	-23.18	-23.04				
10	QPSK	25	0	-21.63	-21.69	-21.63				
10	QPSK	25	12	-21.60	-21.65	-21.58			23.5	2
10	QPSK	25	25	-21.62	-21.65	-21.65				
10	QPSK	50	0	-21.54	-21.59	-21.57				
10	QPSK	50	25	-21.56	-21.59	-21.76				
10	QPSK	1	26	-21.70	-21.74	-21.61			23.5	2
10	QPSK	1	49	-21.57	-21.70	-21.55				
10	QPSK	1	72	-21.62	-21.73	-21.55				
10	QPSK	25	12	-20.62	-20.63	-20.63			22.5	3
10	QPSK	25	25	-20.61	-20.68	-20.54				
10	QPSK	25	38	-20.60	-20.63	-20.54				
10	QPSK	1	0	-18.89	-18.93	-18.81				
10	QPSK	25	0	-18.86	-18.90	-18.85			20.5	5
10	QPSK	25	12	-18.85	-18.86	-18.78				
10	QPSK	25	25	-18.84	-18.76	-18.72				
10	QPSK	25	38	-18.84	-18.66	-18.68			20.5	5
10	QPSK	25	50	-18.72	-18.73	-18.68				
10	QPSK	50	0	-18.74	-18.80	-18.72				
Channel										
Channel										
Channel										
10	QPSK	1	0	-23.64	-23.71	-23.62				
10	QPSK	1	12	-23.57	-23.54	-23.52			25.5	0
10	QPSK	1	26	-23.55	-23.53	-23.51				
10	QPSK	1	49	-23.62	-23.68	-23.57				
10	QPSK	12	7	-22.60	-22.63	-22.50			24.5	1
10	QPSK	12	19	-22.53	-22.60	-22.54				
10	QPSK	12	31	-22.56	-22.60	-22.53				
10	QPSK	1	0	-23.01	-23.20	-23.07			24.5	1
10	QPSK	1	12	-23.04	-23.14	-23.05				
10	QPSK	1	26	-23.05	-23.15	-23.02				
10	QPSK	12	0	-21.88	-21.87	-21.62				
10	QPSK	12	13	-21.87	-21.87	-21.62			23.5	2
10	QPSK	12	19	-21.54	-21.69	-21.61				
10	QPSK	25	0	-21.57	-21.63	-21.54				
10	QPSK	25	13	-21.57	-21.63	-21.54				
10	QPSK	1	12	-21.67	-21.72	-21.59			23.5	2
10	QPSK	1	26	-21.60	-21.72	-21.59				
10	QPSK	12	0	-20.59	-20.65	-20.58			22.5	3
10	QPSK	12	13	-20.60	-20.63	-20.58				
10	QPSK	12	19	-20.59	-20.63	-20.58				
10	QPSK	1	0	-18.79	-18.82	-18.70				
10	QPSK	1	12	-18.76	-18.81	-18.78			20.5	5
10	QPSK	1	26	-18.75	-18.79	-18.76				
10	QPSK	1	49	-18.76	-18.82	-18.73				
10	QPSK	12	7	-18.59	-18.62	-18.50			20.5	5
10	QPSK	12	19	-18.52	-18.54	-18.58				
10	QPSK	12	31	-18.58	-18.60	-18.63				
10	QPSK	25	0	-18.61	-18.70	-18.65				
Channel										
Channel										
Channel										
10	QPSK	1	0	-23.61	-23.70	-23.66				
10	QPSK	1	12	-23.54	-23.60	-23.57			25.5	0
10	QPSK	1	26	-23.56	-23.58	-23.55				
10	QPSK	1	49	-23.57	-23.60	-23.53				
10	QPSK	12	7	-22.63	-22.71	-22.55			24.5	1
10	QPSK	12	19	-22.56	-22.61	-22.55				
10	QPSK	12	31	-22.61	-22.68	-22.58				
10	QPSK	1	0	-23.11	-23.29	-23.11			24.5	1
10	QPSK	1	12	-23.04	-23.08	-23.05				
10	QPSK	1	26	-23.05	-23.14	-23.02				
10	QPSK	12	0	-21.52	-21.62	-21.57			23.5	2
10	QPSK	12	13	-21.50	-21.59	-21.57				
10	QPSK	12	19	-21.16	-21.72	-21.61			23.5	2
10	QPSK	15	0	-21.58	-21.62	-21.55				
10	QPSK	1	0	-21.57	-21.76	-21.69			23.5	2
10	QPSK	1	12	-21.67	-21.72	-21.61				
10	QPSK	1	26	-21.67	-21.72	-21.61				
10	QPSK	1	49	-21.50	-21.60	-21.59				
10	QPSK	1	72	-21.51	-21.63	-21.51				
10	QPSK	25	0	-20.59	-20.68	-20.59			22.5	3
10	QPSK	25	12	-20.60	-20.63	-20.59				
10	QPSK	25	25	-20.59	-20.68	-20.59				
10	QPSK	25	38	-20.58	-20.63	-20.59				
10	QPSK	1	0	-18.76	-18.84	-18.75				
10	QPSK	1	8	-18.83	-18.73	-18.72			20.5	5
10	QPSK	1	16	-18.81	-18.80	-18.75				
10	QPSK	1	24	-18.82	-18.81	-18.75				
10	QPSK	1	32	-18.58	-18.61	-18.61				
10	QPSK	8	4	-18.58	-18.72	-18.63			20.5	5
10	QPSK	8	12	-18.58	-18.72	-18.63				
10	QPSK	8	20	-18.58	-18.72	-18.63				
10	QPSK	15	0	-18.68	-18.76	-18.65				
Channel										
Channel										
Channel										
14	QPSK	1	0	-23.55	-23.66	-23.64				
14	QPSK	1	3	-23.57	-23.61	-23.53				
14	QPSK	1	6	-23.59	-23.59	-23.50			25.5	0
14	QPSK	1	9	-23.55	-23.62	-23.58				
14	QPSK	1	1	-23.51	-23.52	-23.55				
14	QPSK	3	3	-23.52	-23.57	-23.59			24.5	1
14	QPSK	3	6	-23.54	-23.60	-23.58				
14	QPSK	1	0	-22.58	-22.61	-22.58				
14	QPSK	3	3	-22.54	-22.60	-22.52			24.5	1
14	QPSK	3	6	-22.52	-22.59	-22.57				
14	QPSK	3	9	-22.52	-22.59	-22.57				
14	QPSK	1	0	-21.58	-21.66	-21.56			23.5	2
14	QPSK	1	3	-21.51	-21.53	-21.54				
14	QPSK	1	6	-21.51	-21.58	-21.51				
14	QPSK	1	9	-21.56	-21.65	-21.60			23.5	2
14	QPSK	3	0	-21.64	-21.72	-21.63				
14	QPSK	3	3	-21.62	-21.70	-21.64				
14	QPSK	3	6	-21.51	-21.62	-21.50			22.5	3
14	QPSK	3	9	-21.51	-21.64	-21.52				
14	QPSK	1	0	-18.81	-18.82	-18.80				
14	QPSK	3	0	-18.52	-18.72	-18.78			20.5	5
14	QPSK	3	3	-18.52	-18.76	-18.81				
14	QPSK	3	6	-18.59	-18.66	-18.58				
14	QPSK	3	9	-18.63	-18.67	-18.63				
14	QPSK	6	0	-18.63	-18.71	-18.63			20.5	5

Band 7 Main PA Ant1 DS11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Power Channel	Power High Power Channel	Power High Power Channel	Turn-on Time (μs)	MPEP (dB)		
Channel										
20	QPSK	1	0	-20.42	-20.32	-21.00	21	0		
20	QPSK	1	49	-20.31	-20.30	-21.00				
20	QPSK	1	99	-20.32	-20.31	-21.00				
20	QPSK	50	24	-20.31	-20.30	-21.00				
20	QPSK	50	24	-20.33	-20.43	-21.00	21	0		
20	QPSK	50	24	-20.36	-20.35	-21.00				
20	QPSK	100	24	-20.35	-20.35	-21.00				
20	QPSK	1	0	-20.28	-20.39	-20.29				
20	QPSK	1	49	-20.32	-20.39	-20.29	21	0		
20	QPSK	1	99	-20.37	-20.39	-20.29				
20	QPSK	50	24	-20.33	-20.36	-20.30				
20	QPSK	50	24	-20.35	-20.35	-20.30				
20	QPSK	100	24	-20.32	-20.32	-20.30	19	2		
20	QPSK	1	0	-18.51	-18.65	-18.67				
20	QPSK	1	49	-18.47	-18.62	-18.62				
20	QPSK	1	99	-18.48	-18.61	-18.61				
20	QPSK	50	24	-18.41	-18.55	-18.55	19	2		
20	QPSK	50	24	-18.41	-18.55	-18.55				
20	QPSK	100	24	-18.41	-18.55	-18.55				
20	QPSK	1	0	-15.45	-15.56	-15.47				
Channel										
20	QPSK	1	0	-20.43	-20.48	-21.00	21	0		
15	QPSK	1	37	-20.29	-20.44	-20.28				
15	QPSK	1	74	-20.31	-20.39	-20.28				
15	QPSK	1	111	-20.44	-20.43	-20.44				
15	QPSK	36	20	-20.30	-20.35	-20.31	21	0		
15	QPSK	36	20	-20.27	-20.32	-20.22				
15	QPSK	75	24	-20.42	-20.44	-20.46				
15	QPSK	1	0	-20.30	-20.35	-20.27				
15	QPSK	1	37	-20.27	-20.38	-20.23	21	0		
15	QPSK	1	74	-20.29	-20.33	-20.23				
15	QPSK	36	20	-20.30	-20.44	-20.31				
15	QPSK	36	20	-20.28	-20.34	-20.23				
15	QPSK	75	24	-20.35	-20.41	-20.23	21	0		
15	QPSK	75	24	-20.31	-20.35	-20.23				
15	QPSK	1	0	-20.36	-20.43	-20.37				
15	QPSK	1	37	-20.38	-20.43	-20.37				
15	QPSK	1	74	-20.34	-20.35	-20.31	21	0		
15	QPSK	1	111	-20.39	-20.39	-20.39				
15	QPSK	36	20	-20.37	-20.43	-20.31				
15	QPSK	36	20	-20.29	-20.42	-20.28				
15	QPSK	75	24	-20.37	-20.42	-20.28	21	0		
15	QPSK	75	24	-20.37	-20.42	-20.28				
15	QPSK	1	0	-15.42	-15.55	-15.45				
15	QPSK	1	37	-15.43	-15.49	-15.40				
15	QPSK	1	74	-15.47	-15.47	-15.40	19	2		
15	QPSK	36	20	-15.46	-15.54	-15.52				
15	QPSK	36	20	-15.49	-15.42	-15.39				
15	QPSK	75	24	-15.46	-15.41	-15.38				
15	QPSK	75	24	-15.41	-15.48	-15.30	19	2		
15	QPSK	1	0	-15.41	-15.48	-15.30				
15	QPSK	1	37	-15.41	-15.48	-15.30				
15	QPSK	1	74	-15.44	-15.43	-15.30				
15	QPSK	1	111	-15.48	-15.48	-15.30	21	0		
15	QPSK	36	20	-15.47	-15.47	-15.30				
15	QPSK	36	20	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30	21	0		
15	QPSK	1	0	-15.42	-15.55	-15.45				
15	QPSK	1	37	-15.43	-15.49	-15.40				
15	QPSK	1	74	-15.47	-15.47	-15.40				
15	QPSK	36	20	-15.46	-15.54	-15.52	19	2		
15	QPSK	36	20	-15.49	-15.42	-15.39				
15	QPSK	75	24	-15.46	-15.41	-15.38				
15	QPSK	75	24	-15.41	-15.48	-15.30				
15	QPSK	1	0	-15.41	-15.48	-15.30	21	0		
15	QPSK	1	37	-15.41	-15.48	-15.30				
15	QPSK	1	74	-15.44	-15.43	-15.30				
15	QPSK	1	111	-15.48	-15.48	-15.30				
15	QPSK	36	20	-15.47	-15.47	-15.30	21	0		
15	QPSK	36	20	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30	21	0		
15	QPSK	1	0	-15.42	-15.55	-15.45				
15	QPSK	1	37	-15.43	-15.49	-15.40				
15	QPSK	1	74	-15.47	-15.47	-15.40				
15	QPSK	36	20	-15.46	-15.54	-15.52	19	2		
15	QPSK	36	20	-15.49	-15.42	-15.39				
15	QPSK	75	24	-15.46	-15.41	-15.38				
15	QPSK	75	24	-15.41	-15.48	-15.30				
15	QPSK	1	0	-15.41	-15.48	-15.30	21	0		
15	QPSK	1	37	-15.41	-15.48	-15.30				
15	QPSK	1	74	-15.44	-15.43	-15.30				
15	QPSK	1	111	-15.48	-15.48	-15.30				
15	QPSK	36	20	-15.47	-15.47	-15.30	21	0		
15	QPSK	36	20	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30	21	0		
15	QPSK	1	0	-15.42	-15.55	-15.45				
15	QPSK	1	37	-15.43	-15.49	-15.40				
15	QPSK	1	74	-15.47	-15.47	-15.40				
15	QPSK	36	20	-15.46	-15.54	-15.52	19	2		
15	QPSK	36	20	-15.49	-15.42	-15.39				
15	QPSK	75	24	-15.46	-15.41	-15.38				
15	QPSK	75	24	-15.41	-15.48	-15.30				
15	QPSK	1	0	-15.41	-15.48	-15.30	21	0		
15	QPSK	1	37	-15.41	-15.48	-15.30				
15	QPSK	1	74	-15.44	-15.43	-15.30				
15	QPSK	1	111	-15.48	-15.48	-15.30				
15	QPSK	36	20	-15.47	-15.47	-15.30	21	0		
15	QPSK	36	20	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30	21	0		
15	QPSK	1	0	-15.42	-15.55	-15.45				
15	QPSK	1	37	-15.43	-15.49	-15.40				
15	QPSK	1	74	-15.47	-15.47	-15.40				
15	QPSK	36	20	-15.46	-15.54	-15.52	19	2		
15	QPSK	36	20	-15.49	-15.42	-15.39				
15	QPSK	75	24	-15.46	-15.41	-15.38				
15	QPSK	75	24	-15.41	-15.48	-15.30				
15	QPSK	1	0	-15.41	-15.48	-15.30	21	0		
15	QPSK	1	37	-15.41	-15.48	-15.30				
15	QPSK	1	74	-15.44	-15.43	-15.30				
15	QPSK	1	111	-15.48	-15.48	-15.30				
15	QPSK	36	20	-15.47	-15.47	-15.30	21	0		
15	QPSK	36	20	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30	21	0		
15	QPSK	1	0	-15.42	-15.55	-15.45				
15	QPSK	1	37	-15.43	-15.49	-15.40				
15	QPSK	1	74	-15.47	-15.47	-15.40				
15	QPSK	36	20	-15.46	-15.54	-15.52	19	2		
15	QPSK	36	20	-15.49	-15.42	-15.39				
15	QPSK	75	24	-15.46	-15.41	-15.38				
15	QPSK	75	24	-15.41	-15.48	-15.30				
15	QPSK	1	0	-15.41	-15.48	-15.30	21	0		
15	QPSK	1	37	-15.41	-15.48	-15.30				
15	QPSK	1	74	-15.44	-15.43	-15.30				
15	QPSK	1	111	-15.48	-15.48	-15.30				
15	QPSK	36	20	-15.47	-15.47	-15.30	21	0		
15	QPSK	36	20	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30	21	0		
15	QPSK	1	0	-15.42	-15.55	-15.45				
15	QPSK	1	37	-15.43	-15.49	-15.40				
15	QPSK	1	74	-15.47	-15.47	-15.40				
15	QPSK	36	20	-15.46	-15.54	-15.52	19	2		
15	QPSK	36	20	-15.49	-15.42	-15.39				
15	QPSK	75	24	-15.46	-15.41	-15.38				
15	QPSK	75	24	-15.41	-15.48	-15.30				
15	QPSK	1	0	-15.41	-15.48	-15.30	21	0		
15	QPSK	1	37	-15.41	-15.48	-15.30				
15	QPSK	1	74	-15.44	-15.43	-15.30				
15	QPSK	1	111	-15.48	-15.48	-15.30				
15	QPSK	36	20	-15.47	-15.47	-15.30	21	0		
15	QPSK	36	20	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30	21	0		
15	QPSK	1	0	-15.42	-15.55	-15.45				
15	QPSK	1	37	-15.43	-15.49	-15.40				
15	QPSK	1	74	-15.47	-15.47	-15.40				
15	QPSK	36	20	-15.46	-15.54	-15.52	19	2		
15	QPSK	36	20	-15.49	-15.42	-15.39				
15	QPSK	75	24	-15.46	-15.41	-15.38				
15	QPSK	75	24	-15.41	-15.48	-15.30				
15	QPSK	1	0	-15.41	-15.48	-15.30	21	0		
15	QPSK	1	37	-15.41	-15.48	-15.30				
15	QPSK	1	74	-15.44	-15.43	-15.30				
15	QPSK	1	111	-15.48	-15.48	-15.30				
15	QPSK	36	20	-15.47	-15.47	-15.30	21	0		
15	QPSK	36	20	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30				
15	QPSK	75	24	-15.47	-15.47	-15.30	21	0		
15	QPSK	1	0	-15.42	-15.55	-15.45				
15	QPSK	1	37	-15.43	-15.49	-15.40				
15	QPSK	1	74	-15.47	-15.47	-15.40				
15	QPSK	36	20	-15.46	-15.54	-15.52	19	2		
15	QPSK	36	20	-15.49	-15.42	-15.39				
15	QPSK	75	24	-15.46	-15.41	-15.38				
15	QPSK	75	24	-15.41	-15.48	-15.30				
15	QPSK	1	0	-15.41	-15.48	-15.30	21	0		
15	QPSK	1	37	-15.41	-15.48	-15.30				
15	QPSK	1	74	-15.44	-15.43	-15.30				
15	QPSK	1	111							

Band 13 Main PA Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up (sec)	APR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.06	23.06	23.06	25.5	0	
10	QPSK	1	25	23.06	23.06	23.06			
10	QPSK	1	49	23.06	23.06	23.06			
10	QPSK	25	0	22.84	22.84	22.84	24.5	1	
10	QPSK	25	25	22.79	22.79	22.79			
10	QPSK	25	50	22.84	22.84	22.84			
10	16QAM	1	0	21.79	21.79	21.79	24.5	1	
10	16QAM	1	25	21.79	21.79	21.79			
10	16QAM	1	49	21.79	21.79	21.79			
10	16QAM	25	0	21.81	21.81	21.81	23.5	2	
10	16QAM	25	25	21.86	21.86	21.86			
10	16QAM	25	50	21.79	21.79	21.79			
10	64QAM	1	0	22.07	22.07	22.07	23.5	2	
10	64QAM	1	25	22.01	22.01	22.01			
10	64QAM	1	49	21.99	21.99	21.99			
10	64QAM	25	0	20.87	20.87	20.87	22.5	3	
10	64QAM	25	25	20.76	20.76	20.76			
10	64QAM	25	50	20.83	20.83	20.83			
10	256QAM	1	0	18.94	18.94	18.94	20.5	5	
10	256QAM	1	25	18.91	18.91	18.91			
10	256QAM	1	49	18.88	18.88	18.88			
10	256QAM	25	0	18.88	18.88	18.88	20.5	5	
10	256QAM	25	25	18.78	18.78	18.78			
10	256QAM	25	50	18.84	18.84	18.84			
10	256QAM	50	0	18.81	18.81	18.81			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.84	23.84	23.88	25.5	0	
5	QPSK	1	16	23.87	23.87	23.88			
5	QPSK	1	24	23.78	23.80	23.77			
5	QPSK	12	0	22.87	22.78	22.88	24.5	1	
5	QPSK	12	7	22.72	22.73	22.73			
5	QPSK	12	13	22.73	22.72	22.68			
5	QPSK	25	0	22.84	22.73	22.78	24.5	1	
5	QPSK	25	0	22.74	22.71	22.78			
5	16QAM	1	12	22.65	22.71	22.72			
5	16QAM	1	24	22.64	22.69	22.71	23.5	2	
5	16QAM	12	0	21.78	21.84	21.78			
5	16QAM	12	7	21.69	21.68	21.74			
5	16QAM	1	0	21.69	21.68	21.84	23.5	2	
5	64QAM	1	0	21.72	21.75	21.84			
5	64QAM	1	0	21.65	21.65	21.96			
5	64QAM	1	24	21.94	21.92	21.83	22.5	3	
5	64QAM	12	0	20.74	20.74	20.78			
5	64QAM	12	7	20.67	20.63	20.65			
5	64QAM	12	13	20.72	20.73	20.70	20.5	5	
5	64QAM	25	0	20.68	20.64	20.60			
5	256QAM	1	0	18.84	18.81	18.84			
5	256QAM	1	12	18.77	18.87	18.82	20.5	5	
5	256QAM	1	24	18.79	18.72	18.78			
5	256QAM	12	0	18.74	18.76	18.84			
5	256QAM	12	7	18.72	18.73	18.84	20.5	5	
5	256QAM	12	13	18.69	18.76	18.79			
5	256QAM	25	0	18.71	18.76	18.68			

Band 26 Main PA Ant1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up (sec)	APR (dB)				
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.70	23.77	23.65	25.5	0				
15	QPSK	1	37	23.63	23.63	23.62						
15	QPSK	1	74	23.51	23.64	23.52						
15	QPSK	36	0	22.62	22.74	22.66	24.5	1				
15	QPSK	36	20	22.53	22.63	22.54						
15	QPSK	36	39	22.54	22.63	22.58						
15	QPSK	75	0	22.60	22.67	22.60	24.5	1				
15	16QAM	1	0	22.66	22.67	22.67						
15	16QAM	1	37	22.61	22.75	22.63						
15	16QAM	1	74	22.67	22.71	22.60	23.5	2				
15	16QAM	1	74	21.73	21.78	21.62						
15	16QAM	36	20	21.83	21.68	21.59						
15	16QAM	36	39	21.88	21.72	21.89	23.5	2				
15	16QAM	75	0	21.54	21.66	21.58						
15	64QAM	1	0	21.82	21.92	21.84	23.5	2				
15	64QAM	1	37	21.78	21.86	21.80						
15	64QAM	1	74	21.73	21.82	21.72						
15	64QAM	36	20	20.74	20.89	20.79	22.5	3				
15	64QAM	36	20	20.74	20.89	20.72						
15	64QAM	36	39	20.72	20.85	20.70						
15	256QAM	1	0	20.69	20.77	20.67	20.5	5				
15	256QAM	1	37	18.58	18.72	18.64						
15	256QAM	1	74	18.64	18.67	18.60						
15	256QAM	36	0	18.51	18.64	18.52	20.5	5				
15	256QAM	36	20	18.54	18.58	18.51						
15	256QAM	36	39	18.60	18.62	18.55						
15	256QAM	75	0	18.60	18.63	18.56						
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.60	23.74	23.62	25.5	0				
10	QPSK	1	25	23.58	23.64	23.62						
10	QPSK	1	49	23.55	23.70	23.58						
10	QPSK	25	0	22.63	22.67	22.70	24.5	1				
10	QPSK	25	12	22.59	22.68	22.63						
10	QPSK	25	26	22.59	22.65	22.58						
10	QPSK	50	0	22.66	22.69	22.56	24.5	1				
10	16QAM	1	0	22.70	22.81	22.70						
10	16QAM	1	25	22.59	22.81	22.62						
10	16QAM	25	0	21.81	21.82	21.58	23.5	2				
10	16QAM	25	12	21.67	21.65	21.53						
10	16QAM	25	49	21.66	21.69	21.51						
10	16QAM	50	0	21.58	21.63	21.55	23.5	2				
10	64QAM	1	0	21.72	21.77	21.80						
10	64QAM	1	24	21.63	21.71	21.71						
10	64QAM	1	49	21.63	21.75	21.59	22.5	3				
10	64QAM	25	0	20.71	20.76	20.68						
10	64QAM	25	12	20.66	20.67	20.65						
10	64QAM	25	26	20.58	20.62	20.51	20.5	5				
10	64QAM	50	0	20.56	20.68	20.63						
10	256QAM	1	0	18.56	18.70	18.60						
10	256QAM	1	25	18.57	18.79	18.71	20.5	5				
10	256QAM	1	49	18.61	18.70	18.57						
10	256QAM	25	0	18.54	18.64	18.56						
10	256QAM	25	12	18.54	18.60	18.57	20.5	5				
10	256QAM	25	26	18.58	18.61	18.54						
10	256QAM	50	0	18.65	18.73	18.62						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.72	23.72	23.63	25.5	0				
5	QPSK	1	14	23.58	23.63	23.55						
5	QPSK	1	24	23.55	23.65	23.52						
5	QPSK	12	0	22.78	22.84	22.84	24.5	1				
5	QPSK	12	7	22.53	22.74	22.54						
5	QPSK	12	13	22.56	22.62	22.58						
5	QPSK	25	0	22.66	22.69	22.56	24.5					



Band 38 Main PA Ant1 DSI1									
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)									
20	QPSK	1	0	22.22	22.30	22.15	23.5	0	
20	QPSK	1	48	22.10	22.20	22.05			
20	QPSK	50	0	22.25	22.30	22.15			
20	QPSK	50	24	22.17	22.22	22.07			
20	QPSK	50	36	22.10	22.15	22.00	23.5	0	
20	QPSK	100	0	22.17	22.19	22.15			
20	16QAM	1	0	22.09	22.18	22.12			
20	16QAM	1	48	22.17	21.84	21.03			
20	16QAM	1	96	22.02	22.15	22.11	23	0.5	
20	16QAM	50	0	21.96	21.90	21.76			
20	16QAM	50	24	21.77	21.89	21.69			
20	16QAM	50	50	21.77	21.89	21.76			
20	16QAM	100	0	21.46	21.54	21.46	23	0.5	
20	64QAM	1	48	21.43	21.55	21.42			
20	64QAM	1	96	21.37	21.45	21.34			
20	64QAM	50	0	20.78	20.91	20.84			
20	64QAM	50	24	20.74	20.78	20.89	22	1.5	
20	64QAM	50	50	20.74	20.79	20.71			
20	64QAM	100	0	20.61	20.69	20.57			
20	256QAM	1	0	18.51	18.65	18.56			
20	256QAM	1	48	18.59	18.65	18.52	20	3.5	
20	256QAM	1	96	18.48	18.62	18.67			
20	256QAM	50	0	18.59	18.56	18.56			
20	256QAM	50	24	18.54	18.57	18.73			
20	256QAM	50	50	18.51	18.56	18.89	20	3.5	
20	256QAM	50	100	18.53	18.73	18.74			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.23	22.25	22.15	23.5	0	
15	QPSK	1	37	22.12	22.25	22.07			
15	QPSK	1	74	21.97	22.12	22.00			
15	QPSK	36	0	22.20	22.20	22.05			
15	QPSK	36	20	22.12	22.24	22.11	23.5	0	
15	QPSK	75	0	22.25	22.25	22.15			
15	16QAM	1	0	22.03	22.21	22.18			
15	16QAM	1	37	22.05	22.14	22.00			
15	16QAM	1	74	22.03	22.09	22.09	23	0.5	
15	16QAM	36	0	21.74	21.86	21.71			
15	16QAM	36	20	21.65	21.80	21.56			
15	16QAM	36	36	21.70	21.76	21.84			
15	16QAM	75	0	21.68	21.80	21.84	23	0.5	
15	64QAM	1	0	21.35	21.50	21.34			
15	64QAM	1	37	21.34	21.41	21.38			
15	64QAM	74	0	21.27	21.33	21.24			
15	64QAM	36	0	20.63	20.86	20.78	22	1.5	
15	64QAM	36	20	20.69	20.71	20.59			
15	64QAM	75	0	20.25	20.35	20.46			
15	256QAM	1	0	18.39	18.52	18.45			
15	256QAM	1	37	18.45	18.57	18.51	20	3.5	
15	256QAM	1	74	18.45	18.57	18.51			
15	256QAM	36	0	18.54	18.85	18.88			
15	256QAM	36	20	18.79	18.83	18.90			
15	256QAM	36	36	18.86	18.86	18.86	20	3.5	
15	256QAM	75	0	18.60	18.68	18.60			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.02	22.16	22.16	23.5	0	
10	QPSK	1	25	22.11	22.19	22.02			
10	QPSK	1	48	22.01	22.13	22.07			
10	QPSK	25	0	22.26	22.25	22.09			
10	QPSK	25	12	22.18	22.18	22.07	23.5	0	
10	QPSK	25	25	22.00	22.24	22.12			
10	16QAM	1	0	22.17	22.19	22.14			
10	16QAM	1	0	22.11	22.16	22.17			
10	16QAM	1	25	21.98	22.19	22.04	23	0.5	
10	16QAM	1	48	21.96	22.19	22.05			
10	16QAM	25	0	21.75	21.82	21.79			
10	16QAM	25	12	21.68	21.76	21.64			
10	16QAM	25	12	21.73	21.80	21.69	23	0.5	
10	16QAM	50	0	21.74	21.79	21.69			
10	64QAM	1	0	21.44	21.50	21.38			
10	64QAM	1	25	21.35	21.43	21.36			
10	64QAM	1	48	21.27	21.31	21.27	22	1.5	
10	64QAM	25	0	20.70	20.78	20.78			
10	64QAM	25	12	20.62	20.63	20.57			
10	64QAM	25	25	20.60	20.67	20.61			
10	64QAM	50	0	20.57	20.60	20.45	20	3.5	
10	256QAM	1	0	18.42	18.59	18.47			
10	256QAM	1	25	18.45	18.61	18.47			
10	256QAM	1	48	18.43	18.48	18.51			
10	256QAM	25	0	18.88	18.85	18.77			
10	256QAM	25	12	18.77	18.83	18.66	20	3.5	
10	256QAM	25	25	18.87	18.86	18.76			
10	256QAM	50	0	18.68	18.71	18.67			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.26	22.22	22.11	23.5	0	
5	QPSK	1	16	22.10	22.24	22.11			
5	QPSK	1	24	21.94	22.08	22.04			
5	QPSK	12	0	22.29	22.16	22.04			
5	QPSK	12	7	22.21	22.20	22.03	23.5	0	
5	QPSK	12	18	21.97	22.13	22.15			
5	QPSK	25	0	22.21	22.25	22.16			
5	16QAM	1	0	22.09	22.14	22.07			
5	16QAM	1	12	22.03	22.17	22.03	23.5	0	
5	16QAM	1	24	21.94	22.10	22.14			
5	16QAM	12	0	21.74	21.86	21.65			
5	16QAM	12	7	21.64	21.79	21.65			
5	16QAM	12	13	21.74	21.78	21.72	23	0.5	
5	16QAM	25	0	21.74	21.74	21.72			
5	64QAM	1	0	21.35	21.43	21.38			
5	64QAM	1	12	21.30	21.42	21.38			
5	64QAM	1	24	21.27	21.32	21.22	22	1.5	
5	64QAM	12	0	20.73	20.84	20.66			
5	64QAM	12	7	20.67	20.74	20.55			
5	64QAM	12	13	20.69	20.74	20.67			
5	64QAM	25	0	20.74	20.84	20.46	20	3.5	
5	256QAM	1	0	18.40	18.57	18.45			
5	256QAM	1	12	18.54	18.58	18.41			
5	256QAM	1	24	18.37	18.58	18.43			
5	256QAM	12	0	18.67	18.83	18.72	20	3.5	
5	256QAM	12	7	18.80	18.84	18.80			
5	256QAM	12	13	18.85	18.89	18.77			
5	256QAM	25	0	18.63	18.68	18.61			

Band 41 Main PA Ant1 DSI1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.20	22.27	22.42	22.23	22.17	23	0
20	QPSK	1	48	22.19	22.28	22.20	22.24	22.07		
20	QPSK	1	96	22.28	22.12	22.39	22.13	22.06		
20	QPSK	50	0	22.15	22.27	22.35	22.20	22.34		
20	QPSK	50	24	22.18	22.28	22.20	22.24	22.17	23	0
20	QPSK	100	0	22.04	22.10	22.00	22.20	22.30		
20	QPSK	100	0	22.14	22.25	22.34	22.15	22.22		
20	16QAM	1	0	22.19	22.19	22.26	22.13	22.08		
20	16QAM	1	48	22.08	22.05	22.22	22.13	22.06	23	0
20	16QAM	1	96	22.10	22.27	22.23	22.21	22.11		
20	16QAM	50	0	21.88	21.94	22.01	21.88	21.93		
20	16QAM	50	24	21.81	21.82	21.83	21.82	21.84		
20	16QAM	50	50	21.88	21.84	22.00	21.86	21.94	22.5	0.5
20	64QAM	1	0	21.88	21.87	21.96	21.87	21.86		
20	64QAM	1	48	21.95	21.84	21.96	21.95	21.86		
20	64QAM	1	96	21.87	21.87	21.82	21.90	21.86		
20	64QAM	50	0	21.91	21.86	21.92	21.90	21.83	22.5	0.5
20	64QAM	50	24	21.79	20.81	20.89	20.81	20.93		
20	64QAM	50	50	20.78	20.86	20.89	20.80	20.73		
20	64QAM	100	0	20.71	20.68	20.81	20.67	20.72		
20	256QAM	1	0	18.64	18.64	18.81	18.64	18.70	19.5	3.5
20	256QAM	1	48	18.62	18.70	18.62	18.62	18.68		
20	256QAM	1	96	18.57	18.63	18.68	18.64	18.57		
20	256QAM	50	0	18.60	18.61	18.67	18.60	18.66		
20	256QAM	50	24	18.59	18.51	18.57	18.57	18.58	19.5	3.5
20	256QAM	50	50	18.59	18.50	18.51	18.52	18.57		
20	256QAM	50	96	18.70	18.78	18.78	18.70	18.78		
20	256QAM	100	0	18.72	18.64	18.62	18.64	18.68		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.20	22.23	22.24	22.23	22.22	23	0
15	QPSK	1	37	22.22	22.25	22.18	22.22	22.03		
15	QPSK	1	74	22.04	22.09	22.25	22.12	22.05		
15	QPSK	50	0	22.11	22.22	22.22	22.28	22.28		
15	QPSK	50	24	22.03	22.20	22.25	22.38	22.18	23	0
15	QPSK	50	50	22.00	22.11	22.22	22.22	22.05		
15	QPSK	100	0	22.14	22.20	22.31	22.11	22.21		
15	16QAM	1	0	22.21	22.22	22.30	22.29	22.07		
15	16QAM	1	37	22.05	22.07	22.23	22.22	22.03	23	0
15	16QAM	1	74	22.07	22.27	22.23	22.25	22.07		
15	16QAM	50	0	21.79	21.80	21.86	21.82	21.79		
15	16QAM	50	24	21.78	21.79	21.82	21.79	21.76		
15	16QAM	50	50	21.76	21.72	21.67	21.81	21.83	22.5	0.5
15	64QAM	1	0	21.76	21.76	21.76	21.76	21.83		
15	64QAM	1	37	21.30	21.60	21.50	21.52	21.49		
15	64QAM	1	74	21.42	21.21	21.86	21.37	21.40		
15	64QAM	50	0	21.33	21.30	21.36	21.39	21.27	22.5	0.5
15	64QAM	50	24	20.86	20.82	20.94	20.20	20.82		
15	64QAM	50	50	20.67	20.60	20.80	20.86	20.67		
15	64QAM	100	0	20.67	20.60	20.80	20.67	20.67		
15	256QAM	1	0	18.58	18.56	18.56	18.58	18.58	19.5	3.5
15	256QAM	1	37	18.54	18.62	18.74	18.52	18.59		
15	256QAM	1	74	18.53	18.58	18.59	18.48	18.53		
15	256QAM	50	0	18.56	18.66	18.66	18.57	18.71		
15	256QAM	50	24	18.70	18.77	18.71	18.51	18.74	19.5	3.5
15	256QAM	50	50	18.76	18.92	18.90	18.52	18.77		
15	256QAM	50	96	18.60	18.74	18.60	18.74	18.68		
15	256QAM	100	0	18.60	18.74	18.60	18.74	18.68		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.20	22.28	22.25	22.29	22.14	23	0
10	QPSK	1	25	22.18	22.25	22.14	22.27	22.02		
10	QPSK	1	50	22.03	22.11	22.01	22.13	22.01		
10	QPSK	50	0	22.21	22.28	22.03	22.15	22.19		
10	QPSK	25	12	22.15	22.23	22.27	22.30	22.21	23	0
10	QPSK	25	37	22.00	22.22	22.22	22.22	22.16		
10	QPSK	50	0	22.14	22.28	22.24	22.14	22.28		
10	QPSK	50	12	22.22	22.17	22.28	22.17	22.09		
10	16QAM	1	0	22.13	22.01	22.01	22.29	22.09	23	0
10	16QAM	1	49	22.13	22.23	22.21	22.21	22.13		
10	16QAM	25	0	21.79	21.80	21.86	21.81	21.79		
10	16QAM	25	12	21.88	21.79	21.82	21.82	21.76		
10	16QAM	25	25	21.75	21.79	21.81	21.82	21.87	22.5	0.5
10	16QAM	25	37	21.77	21.79	21.82	21.79	21.74		
10	64QAM	1	0	21.40	21.47	21.47	21.43	21.46		
10	64QAM	1	25	21.40	21.49	21.55	21.45	21.41		
10	64QAM	25	0	20.81	20.81	20.96	20.94	20.90	22.5	0.5
10	64QAM	25	12	20.70	20.77	20.76	20.76	20.69		
10	64QAM	25	25	20.69	20.79	20.79	20.69	20.79		
10	64QAM	50	0	20.67	20.65	20.68	20.61	20.69		
10	256QAM	1	0	18.43	18.56	18.56	18.43	18.59	19.5	3.5
10	256QAM	1	25	18.57	18.61	18.73	18.43	18.53		
10	256QAM	1	49	18.57	18.50	18.57	18.52	18.47		
10	256QAM	25	0	18.50	18.56	18.56	18.43	18.63		
10	256QAM	25	12	18.62	18.80	18.86	18.80	18.78	19.5	3.5
10	256QAM	25	25	18.70	18.90	18.88	18.81	18.85		
10	256QAM	50	0	18.63	18.60	18.66	18.61	18.65		
10	256QAM	50	25	18.63	18.60	18.66	18.61	18.65		
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.21	22.28	22.25	22.29	22.14	23	0
5	QPSK	1	12	22.25	22.31	22.17	22.22	22.07		
5	QPSK	1	24	22.13	22.24	22.01	22.13	22.06		
5	QPSK	12	0	22.19	22.29	22.02	22.20	22.27		
5	QPSK	12	7	22.19	22.25	22.35	22.36	22.14	23	0
5	QPSK	25	0	22.14	22.29	22.02	22.22	22.16		
5	QPSK	25	0	22.18	22.28	22.38	22.09	22.22		
5	QPSK	25	7	22.22	22.14	22.23	22.11	22.13		
5	16QAM	1	0	22.22	22.24	22.23	22.21	22.13	23	0
5	16QAM	1	12	22.14	22.09	22.09	22.22	22.00		
5	16QAM	1	24	22.11	22.28	22.29	22.25	22.14		
5	16QAM	12	7	21.78	21.74	21.74	21.74	21.81		
5	16QAM	12	7	21.73	21.74	21.91	21.75	21.81	22.5	0.5
5	16QAM	12	13	21.77	21.69	21.81	21.79	21.91		
5	64QAM	1	0	21.81	21.78	21.81	21.74	21.78		
5	64QAM	1	12	21.30	21.61	21.48	21.47	21.39		
5	64QAM	1	12	21.36	21.43	21.57	21.47	21.41	22.5	0.5
5	64QAM	12	0	20.65	20.67	20.69	20.72	20.65		
5	64QAM	12	12	20.69	20.74	20.72	20.65	20.69		
5	64QAM	25	0	20.67	20.56	20.74	20.61	20.61		
5	256QAM	1	0	18.58	18.57	18.57	18.58	18.53	19.5	3.5
5	256QAM	1	12	18.40	18.57	18.78	18.53	18.63		
5	256QAM	1	24	18.43	18.55	18.64	18.48	18.51		
5	256QAM	12	0	18.58	18.51	18.58	18.51	18.79		
5	256QAM	12	7	18.77	18.91	18.97	18.96	18.78	19.5	3.5
5	256QAM	12	13	18.66	18.65	18.65	18.65	18.69		
5	256QAM	25	0	18.67	18.61	18.67	18.61	18.67		
5	256QAM	25	7	18.67	18.61	18.67	18.61	18.67		



Band 42 FCC Part27Q Main PA Ant1 DS11												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)				42180	42590	43000						
20	QPSK	1	0	20.44	20.55	20.42	22	0				
20	QPSK	1	49	20.34	20.45	20.32						
20	QPSK	1	99	20.35	20.36	20.33						
20	QPSK	50	0	20.39	20.40	20.42						
20	QPSK	50	24	20.33	20.37	20.34	22	0				
20	QPSK	50	50	20.31	20.34	20.34						
20	QPSK	100	0	20.42	20.51	20.33						
20	16QAM	1	0	20.34	20.37	20.29						
20	16QAM	1	49	20.41	20.42	20.33	22	0				
20	16QAM	1	99	20.35	20.40	20.38						
20	16QAM	50	0	20.39	20.46	20.36						
20	16QAM	50	24	20.40	20.38	20.34						
20	16QAM	50	50	20.45	20.49	20.34	22	0				
20	16QAM	100	0	20.52	20.44	20.30						
20	64QAM	1	0	20.31	20.45	20.25						
20	64QAM	1	49	20.40	20.50	20.38						
20	64QAM	1	99	20.30	20.38	20.29	22	0				
20	64QAM	50	0	20.37	20.36	20.25						
20	64QAM	50	24	20.40	20.47	20.42						
20	64QAM	50	50	20.34	20.37	20.33						
20	64QAM	100	0	20.37	20.43	20.29	20	2				
20	256QAM	1	0	18.16	18.27	18.22						
20	256QAM	1	49	18.20	18.33	18.21						
20	256QAM	1	99	18.21	18.26	18.17						
20	256QAM	36	0	18.20	18.26	18.14	20	2				
20	256QAM	36	24	18.11	18.21	18.20						
20	256QAM	50	0	18.19	18.24	18.12						
20	256QAM	100	0	18.23	18.27	18.13						
Channel												
Frequency (MHz)				42165 <th>42590</th> <th>43010</th> <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th> <th colspan="2"></th>	42590	43010			Turn-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	20.43	20.49	20.42	22	0				
15	QPSK	1	37	20.38	20.42	20.32						
15	QPSK	1	74	20.37	20.37	20.36						
15	QPSK	36	0	20.35	20.48	20.33						
15	QPSK	36	20	20.33	20.45	20.26	22	0				
15	QPSK	36	37	20.39	20.44	20.28						
15	QPSK	75	0	20.38	20.41	20.37						
15	16QAM	1	0	20.41	20.38	20.33						
15	16QAM	1	37	20.39	20.34	20.24	22	0				
15	16QAM	1	74	20.40	20.41	20.38						
15	16QAM	36	0	20.39	20.42	20.27						
15	16QAM	36	20	20.30	20.40	20.33						
15	16QAM	36	39	20.38	20.50	20.34	22	0				
15	16QAM	75	0	20.37	20.46	20.27						
15	64QAM	1	0	20.39	20.44	20.29						
15	64QAM	1	37	20.41	20.47	20.38						
15	64QAM	1	74	20.34	20.45	20.26	22	0				
15	64QAM	36	0	20.36	20.40	20.25						
15	64QAM	36	20	20.40	20.42	20.43						
15	64QAM	36	39	20.35	20.42	20.25						
15	64QAM	75	0	20.30	20.42	20.25	20	2				
15	256QAM	1	0	18.13	18.24	18.08						
15	256QAM	1	37	18.16	18.24	18.15						
15	256QAM	1	74	18.18	18.20	18.09						
15	256QAM	36	0	18.09	18.26	18.21	20	2				
15	256QAM	36	20	18.01	18.08	18.08						
15	256QAM	36	39	18.07	18.16	18.19						
15	256QAM	75	0	18.16	18.15	18.09						
Channel												
Frequency (MHz)				42140	42590	43030			Turn-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	20.43	20.49	20.41	22	0				
10	QPSK	1	25	20.33	20.37	20.31						
10	QPSK	1	49	20.38	20.41	20.27						
10	QPSK	25	0	20.35	20.46	20.38						
10	QPSK	25	12	20.37	20.36	20.31	22	0				
10	QPSK	25	25	20.39	20.35	20.31						
10	QPSK	50	0	20.37	20.43	20.42						
10	16QAM	1	0	20.33	20.40	20.28						
10	16QAM	1	25	20.30	20.38	20.29	22	0				
10	16QAM	1	49	20.45	20.47	20.42						
10	16QAM	25	0	20.40	20.40	20.32						
10	16QAM	25	12	20.32	20.44	20.34						
10	16QAM	25	25	20.41	20.49	20.41	22	0				
10	16QAM	50	0	20.33	20.42	20.31						
10	64QAM	1	0	20.39	20.36	20.24						
10	64QAM	1	25	20.38	20.41	20.41						
10	64QAM	1	49	20.31	20.35	20.24	22	0				
10	64QAM	25	0	20.31	20.33	20.29						
10	64QAM	25	12	20.39	20.50	20.35						
10	64QAM	25	25	20.39	20.46	20.28						
10	64QAM	50	0	20.33	20.45	20.33	22	0				
10	256QAM	1	0	18.03	18.12	18.06						
10	256QAM	1	25	18.09	18.26	18.06						
10	256QAM	1	49	18.14	18.19	18.06						
10	256QAM	25	0	18.16	18.14	18.01	20	2				
10	256QAM	25	12	18.00	18.13	18.05						
10	256QAM	25	25	18.16	18.14	18.07						
10	256QAM	50	0	18.14	18.12	18.07						
Channel												
Frequency (MHz)				42115 <th>42590</th> <th>43060</th> <th>Turn-up limit (dBm)</th> <th>MPR (dB)</th> <th colspan="2"></th>	42590	43060			Turn-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	20.44	20.50	20.41	22	0				
5	QPSK	1	12	20.33	20.41	20.25						
5	QPSK	1	24	20.37	20.44	20.35						
5	QPSK	12	0	20.38	20.52	20.40						
5	QPSK	12	7	20.37	20.36	20.34	22	0				
5	QPSK	12	13	20.32	20.37	20.23						
5	QPSK	25	0	20.35	20.44	20.27						
5	16QAM	1	0	20.34	20.45	20.32						
5	16QAM	1	12	20.40	20.33	20.23	22	0				
5	16QAM	1	24	20.35	20.32	20.42						
5	16QAM	12	7	20.33	20.42	20.31						
5	16QAM	12	13	20.38	20.52	20.41						
5	16QAM	25	0	20.38	20.41	20.38	22	0				
5	64QAM	1	0	20.33	20.38	20.31						
5	64QAM	1	12	20.45	20.47	20.41						
5	64QAM	1	24	20.39	20.37	20.29						
5	64QAM	12	0	20.35	20.36	20.27	22	0				
5	64QAM	12	7	20.39	20.42	20.41						
5	64QAM	12	13	20.35	20.35	20.31						
5	64QAM	25	0	20.35	20.34	20.25						
5	256QAM	1	0	18.06	18.21	18.16	20	2				
5	256QAM	1	12	18.12	18.29	18.08						
5	256QAM	1	24	18.06	18.16	18.03						
5	256QAM	12	0	18.08	18.21	18.13	20	2				
5	256QAM	12	7	18.00	18.13	18.09						
5	256QAM	12	13	18.15	18.17	18.01						
5	256QAM	25	0	18.08	18.14	18.07						

GSM1900 Ant2 Default								
GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)		
TX Channel		512	661	810		512	661	810
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8
GSM 1 Tx slot		29.89	29.95	29.93	31.00	20.89	20.95	20.93
GPRS 1 Tx slot		29.92	30.01	29.95	31.00	20.92	21.01	20.95
GPRS 2 Tx slots		27.08	27.11	27.03	28.00	21.08	21.11	21.03
GPRS 3 Tx slots		25.21	25.34	25.26	26.20	20.95	21.08	21.00
GPRS 4 Tx slots		23.92	24.02	23.90	25.00	20.82	21.02	20.90
EDGE 1 Tx slot		26.15	26.26	26.18	27.00	17.15	17.26	17.18
EDGE 2 Tx slots		23.36	23.44	23.35	24.00	17.36	17.44	17.35
EDGE 3 Tx slots		21.53	21.56	21.50	22.20	17.27	17.30	17.24
EDGE 4 Tx slots		20.54	20.68	20.60	21.00	17.54	17.68	17.60

WCDMA II Ant2 DSII					WCDMA IV Ant2 DSII				
Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel	Rx Channel	9262	9400	9538		1312	1413	1513	
Frequency (MHz)		9662	9800	9938	1537	1638	1738		
3GPP Rel 99 AMR 12.2Kbps		1852.4	1880	1907.6	1712.4	1732.6	1752.6		
3GPP Rel 99 RMC 12.2Kbps		20.51	20.59	20.52	21.45	21.52	21.50	23.00	
3GPP Rel 6	HSDDA Subtest-1	20.54	20.60	20.51	22.00	21.50	21.56	23.00	
3GPP Rel 6	HSDDA Subtest-2	19.47	19.73	19.58	21.00	20.47	20.53	20.57	
3GPP Rel 6	HSDDA Subtest-3	19.60	19.49	19.52	21.00	20.60	20.65	20.55	
3GPP Rel 6	HSDDA Subtest-3	19.10	19.05	19.01	20.50	20.02	20.11	20.05	
3GPP Rel 6	HSDDA Subtest-4	18.94	18.96	19.02	20.50	20.00	20.03	20.04	
3GPP Rel 8	DC-HSDPA Subtest-1	19.61	19.49	19.55	21.00	20.59	20.56	20.48	
3GPP Rel 8	DC-HSDPA Subtest-2	19.49	19.59	19.45	21.00	20.51	20.53	20.41	
3GPP Rel 8	DC-HSDPA Subtest-3	18.86	19.08	18.96	20.50	19.88	20.09	19.99	
3GPP Rel 8	DC-HSDPA Subtest-4	18.88	19.07	18.99	20.50	19.82	19.94	19.92	
3GPP Rel 6	HSUPA Subtest-1	19.31	19.47	19.48	21.00	20.40	20.45	20.53	
3GPP Rel 6	HSUPA Subtest-2	17.61	17.67	17.58	19.00	18.59	18.62	18.59	
3GPP Rel 6	HSUPA Subtest-3	18.58	18.65	18.62	20.00	19.59	19.57	19.58	
3GPP Rel 6	HSUPA Subtest-4	17.44	17.46	17.47	19.00	18.46	18.55	18.44	
3GPP Rel 6	HSUPA Subtest-5	19.43	19.62	19.43	21.00	20.42	20.64	20.50	
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.02	17.08	17.02	18.50	18.07	18.25	18.08	

Band 2 Main PA Ant2 DSI1														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.10	21.22	21.05	22.5	0						
20	QPSK	1	49	20.94	20.97	20.93								
20	QPSK	1	99	20.94	20.97	20.93								
20	QPSK	50	0	21.06	21.13	20.93								
20	QPSK	50	24	20.96	21.00	20.98	22.5	0						
20	QPSK	50	50	20.87	20.99	20.94								
20	QPSK	100	0	21.02	21.11	20.97								
20	16QAM	1	49	20.88	20.92	20.93								
20	16QAM	1	99	21.08	21.11	20.99	22.5	0						
20	16QAM	50	0	21.01	21.01	20.95								
20	16QAM	50	24	20.86	20.93	20.99								
20	16QAM	50	50	21.03	21.06	21.02								
20	64QAM	1	0	20.96	21.10	21.00	22.5	0						
20	64QAM	1	49	20.96	20.98	20.94								
20	64QAM	50	0	20.95	20.98	20.98								
20	64QAM	50	24	20.96	20.70	20.61								
20	64QAM	100	0	20.99	20.69	20.55	22	0.5						
20	256QAM	1	0	18.80	18.85	18.77								
20	256QAM	1	49	18.58	18.70	18.58								
20	256QAM	1	99	18.70	18.80	18.70								
20	256QAM	50	0	18.58	18.67	18.54	20	2.5						
20	256QAM	50	24	18.58	18.68	18.54								
20	256QAM	50	50	18.50	18.60	18.45								
20	256QAM	100	0	18.52	18.61	18.47								
Channel														
Frequency (MHz)														
16	QPSK	1	0	21.04	21.08	20.91	22.5	0						
16	QPSK	1	37	20.93	20.98	20.87								
16	QPSK	1	74	20.90	21.00	20.92								
16	QPSK	36	0	20.89	21.13	20.83								
16	QPSK	36	37	21.03	20.98	20.89	22.5	0						
16	QPSK	36	39	20.88	20.97	20.87								
16	QPSK	75	0	21.02	21.06	20.92								
16	16QAM	1	0	20.99	21.05	20.95								
16	16QAM	1	37	20.87	20.98	20.92	22.5	0						
16	16QAM	1	74	21.02	21.05	20.97								
16	16QAM	36	0	20.99	21.04	20.94								
16	16QAM	36	20	20.89	21.03	20.91								
16	16QAM	36	20	20.99	20.98	20.90	22.5	0						
16	16QAM	75	0	20.99	20.98	20.90								
16	64QAM	1	0	21.04	21.14	20.97								
16	64QAM	1	37	20.93	20.98	20.87								
16	64QAM	1	74	20.97	21.04	21.01	22	0.5						
16	64QAM	36	0	20.71	20.64	20.61								
16	64QAM	36	20	20.48	20.58	20.47								
16	64QAM	36	39	20.48	20.53	20.45								
16	64QAM	75	0	20.49	20.60	20.46	20	2.5						
16	256QAM	1	0	18.56	18.65	18.57								
16	256QAM	1	37	18.48	18.58	18.47								
16	256QAM	1	74	18.58	18.70	18.58								
16	256QAM	36	0	18.56	18.68	18.56	20	2.5						
16	256QAM	36	20	18.52	18.64	18.50								
16	256QAM	36	39	18.41	18.54	18.38								
16	256QAM	75	0	18.52	18.61	18.47								
Channel														
Frequency (MHz)														
16	QPSK	1	0	21.03	21.04	20.96	22.5	0						
16	QPSK	1	25	20.95	20.98	20.96								
16	QPSK	1	49	20.87	20.98	20.92								
16	QPSK	25	0	21.00	21.05	20.95								
16	QPSK	25	12	21.04	21.07	20.98	22.5	0						
16	QPSK	25	25	20.92	20.98	20.95								
16	QPSK	50	0	21.00	21.00	20.98								
16	16QAM	1	0	20.97	21.00	20.89								
16	16QAM	1	25	20.96	21.03	20.97	22.5	0						
16	16QAM	1	49	20.89	21.03	20.97								
16	16QAM	25	0	21.03	21.02	20.99								
16	16QAM	25	12	20.87	21.02	21.01								
16	16QAM	50	0	21.08	21.10	21.00	22.5	0						
16	16QAM	50	0	20.95	21.04	20.95								
16	64QAM	1	0	21.08	21.08	21.02								
16	64QAM	1	49	20.96	20.93	20.94								
16	64QAM	25	0	20.89	20.73	20.64	22	0.5						
16	64QAM	25	12	20.44	20.56	20.45								
16	64QAM	25	25	20.53	20.63	20.46								
16	64QAM	50	0	20.46	20.55	20.45								
16	256QAM	1	0	18.58	18.70	18.58	20	2.5						
16	256QAM	1	25	18.50	18.59	18.49								
16	256QAM	1	49	18.58	18.75	18.59								
16	256QAM	25	0	18.50	18.60	18.49								
16	256QAM	25	12	18.50	18.56	18.41								
16	256QAM	25	25	18.46	18.50	18.41								
16	256QAM	50	0	18.55	18.58	18.49								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.05	21.12	21.01	22.5	0						
5	QPSK	1	12	21.01	20.95	20.93								
5	QPSK	1	24	20.87	21.01	20.98								
5	QPSK	12	7	20.97	20.90	20.89								
5	QPSK	12	13	20.87	21.02	20.91	22.5	0						
5	QPSK	25	0	21.04	21.08	20.92								
5	16QAM	1	0	20.95	21.03	20.96								
5	16QAM	1	12	20.94	20.92	20.90								
5	16QAM	1	24	21.03	21.03	20.98	22.5	0						
5	16QAM	12	0	21.03	21.07	20.87								
5	16QAM	12	13	20.93	20.94	21.00								
5	16QAM	12	13	21.04	21.09	20.95								
5	16QAM	25	0	21.03	21.06	20.93	22.5	0						
5	16QAM	25	12	21.02	21.10	20.96								
5	64QAM	1	0	21.02	21.10	20.96								
5	64QAM	1	12	20.93	20.96	20.96								
5	64QAM	1	24	20.86	20.97	20.94	22	0.5						
5	64QAM	12	0	20.61	20.74	20.69								
5	64QAM	12	7	20.51	20.62	20.54								
5	64QAM	12	13	20.53	20.54	20.43								
5	64QAM	25	0	20.96	20.97	20.41	20	2.5						
5	256QAM	1	0	18.71	18.75	18.63								
5	256QAM	1	12	18.50	18.59	18.48								
5	256QAM	1	24	18.59	18.73	18.55								
5	256QAM	12	0	18.58	18.70	18.54	20	2.5						
5	256QAM	12	13	18.46	18.50	18.41								
5	256QAM	12	13	18.46	18.54	18.41								
5	256QAM	25	0	18.46	18.56	18.45								
5	256QAM	25	12	18.45	18.48	18.38								
5	256QAM	25	25	18.41	18.45	18.30								
5	256QAM	50	0	18.52	18.64	18.47								
Channel														
Frequency (MHz)														
3	QPSK	1	0	21.04	21.10	21.01	22.5	0						
3	QPSK	1	4	20.94	20.97	20.94								
3	QPSK	1	8	20.96	21.01	20.98								
3	QPSK	8	0	21.05	21.14	21.01								
3	QPSK	8	4	20.88	21.00	20.98	22.5	0						
3	QPSK	8	8	20.94	21.06	21.00								
3	QPSK	16	0	21.07	21.12	20.99								
3	16QAM	1	0	20.96	21.06	21.00								
3	16QAM	1	4	20.96	20.99	20.92	22.5	0						
3	16QAM	1	8	21.08	21.08	20.98								
3	16QAM	8	0	21.02	21.03	20.99								
3	16QAM	8	4	21.03	21.02	20.98								
3	16QAM	8	7	21.03	21.09	20.98	22.5	0						
3	16QAM	16	0	20.95	21.05	21.00								
3	16QAM	16	4	21.09	21.11	20.92								
3	16QAM	16	8	20.94	20.99	20.98								
3	64QAM	1	0	20.99	20.99	20.98	22	0.5						
3	64QAM	1	4	20.87	20.98	20.93								
3	64QAM	8	0	20.47	20.58	20.48								
3	64QAM	8	4	20.47	20.53	20.46								
3	64QAM	16	0	20.47	20.58	20.46	20	2.5						
3	256QAM	1	0	18.76	18.77	18.72								
3	256QAM	1	4	18.59	18.62	18.61								
3	256QAM	1	8	18.72	18.77	18.62								
3	256QAM	1	14	18.62	18.70	18.54	20	2.5						
3	256QAM	8	0	18.59	18.68	18.68								
3	256QAM	8	4	18.45	18.62	18.45								
3	256QAM	8	7	18.41	18.58	18.30								
3	256QAM	16	0	18.52	18.64	18.47								
3	256QAM	16	4	18.52	18.60	18.31								
3	256QAM	3	0	18.47	18.53	18.34								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	21.09	21.04	20.95	22.5	0						
1.4	QPSK	1	2	21.03	21.02	20.92								
1.4	QPSK	1	4	20.94	20.92	20.88								
1.4	QPSK	3	0	21.00	21.12	20.94								
1.4	QPSK	3	2	20.99	20.98	20.95	22.5	0						
1.4	QPSK	3	4	20.84	20.97	20.90								
1.4	QPSK	6	0	21.06	21.09	20.96								
1.4	QPSK	6	2	21.01	21.08	20.99								
1.4	16QAM	1	0	21.05	21.08	21.02	22.5	0						
1.4	16QAM	1	2	20.98	21.00	20.98								
1.4	16QAM	3	0	21.03	21.09	20.97								
1.4	16QAM	3	1	21.08	21.09	20.98								
1.4	16QAM	3	2	20.96	21.05	20.96	22.5	0						
1.4	16QAM	6	0	20.91	20.98	20.94								
1.4	16QAM	6	1	21.06	21.07	20.97								
1.4	16QAM	6	2	20.99	21.06	20.99								
1.4	64QAM	1	0	20.94	20.99	20.95	22	0.5						
1.4	64QAM	3	0	21.06	21.13	20.96								
1.4	64QAM	3	2	20.92	20.93	20.92								
1.4	64QAM	6	0	20.61	20.75	20.68								
1.4	64QAM	6	1	18.73	18.77	18.64	20							

Band 25 Main PA Ant2 DSI1														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 18045	Power Middle Ch / Freq. 18050	Power High Ch / Freq. 18055	Time-up (ms)	MPR (dB)						
Channel														
1800 1800 1800														
20	QPSK	1	0	20.98	21.23	21.08	22.5	0	21.5	0				
20	QPSK	1	49	20.98	21.22	21.03								
20	QPSK	1	99	20.90	21.08	20.98								
20	QPSK	50	0	21.05	21.10	21.11								
20	QPSK	50	24	21.02	21.17	21.08	22.5	0	21.5	0				
20	QPSK	50	50	20.85	21.03	20.94								
20	QPSK	100	0	21.07	21.14	21.10								
20	16QAM	50	0	20.95	21.15	21.05								
20	16QAM	1	49	21.04	21.12	21.09	22.5	0	21.5	0				
20	16QAM	1	99	21.01	21.09	21.11								
20	16QAM	50	24	20.90	21.01	20.92								
20	16QAM	50	50	21.07	21.16	21.08								
20	16QAM	100	0	21.00	21.10	21.13	22.5	0	21.5	0				
20	64QAM	1	49	21.04	21.10	21.08								
20	64QAM	1	99	20.93	20.99	20.97								
20	64QAM	50	24	20.97	20.98	20.98								
20	256QAM	100	0	20.96	20.98	20.98	20	2.5	19.5	2				
20	256QAM	1	49	18.73	18.85	18.72								
20	256QAM	1	99	18.72	18.85	18.66								
20	256QAM	1	99	18.71	18.75	18.66								
20	256QAM	50	24	18.54	18.60	18.58	20	2.5	19.5	2				
20	256QAM	50	24	18.56	18.60	18.57								
20	256QAM	50	50	18.60	18.68	18.61								
20	256QAM	100	0	18.63	18.69	18.66								
Channel														
1807.5 1800 1807.5														
18	QPSK	1	0	21.08	21.21	21.11	22.5	0	21.5	0				
18	QPSK	1	37	20.98	21.18	21.08								
18	QPSK	1	74	20.84	21.06	20.97								
18	QPSK	36	0	21.00	21.21	21.11								
18	QPSK	36	25	21.06	21.18	21.08	22.5	0	21.5	0				
18	QPSK	36	39	20.93	21.03	20.98								
18	QPSK	75	0	21.02	21.22	21.14								
18	16QAM	1	1	21.03	21.14	21.02								
18	16QAM	1	37	20.86	21.03	21.02	22.5	0	21.5	0				
18	16QAM	1	74	21.07	21.20	21.12								
18	16QAM	36	0	21.05	21.18	21.13								
18	16QAM	58	20	20.85	21.01	20.92								
18	16QAM	58	25	20.97	21.03	21.07	22.5	0	21.5	0				
18	16QAM	75	0	21.05	21.08	21.13								
18	64QAM	1	0	21.02	21.20	21.13								
18	64QAM	1	49	20.96	21.08	21.07								
18	64QAM	1	74	20.88	21.04	20.93	22	0.5	21.5	0				
18	64QAM	36	0	20.44	20.55	20.46								
18	64QAM	36	25	20.49	20.50	20.48								
18	64QAM	36	39	20.47	20.57	20.50								
18	256QAM	75	0	20.43	20.61	20.43	20	2.5	19.5	2				
18	256QAM	1	37	18.54	18.72	18.62								
18	256QAM	1	37	18.54	18.60	18.45								
18	256QAM	1	74	18.63	18.70	18.52								
18	256QAM	36	4	18.53	18.65	18.58	20	2.5	19.5	2				
18	256QAM	36	20	18.57	18.60	18.47								
18	256QAM	36	39	18.48	18.53	18.53								
18	256QAM	75	0	18.56	18.55	18.42								
Channel														
1805 1800 1805														
18	QPSK	1	0	21.04	21.18	21.12	22.5	0	21.5	0				
18	QPSK	1	25	20.94	21.17	21.11								
18	QPSK	1	49	20.92	21.08	20.91								
18	QPSK	1	74	21.01	21.21	21.11								
18	QPSK	25	12	21.02	21.13	21.03	22.5	0	21.5	0				
18	QPSK	25	25	20.93	21.00	21.00								
18	QPSK	50	0	20.99	21.07	21.07								
18	16QAM	1	0	20.96	21.12	21.11								
18	16QAM	1	25	20.85	21.00	21.02	22.5	0	21.5	0				
18	16QAM	1	50	21.05	21.10	21.10								
18	16QAM	25	0	20.99	21.12	21.10								
18	16QAM	25	12	20.90	21.00	20.91								
18	16QAM	50	0	21.08	21.10	21.07	22.5	0	21.5	0				
18	16QAM	50	0	21.04	21.10	21.09								
18	64QAM	1	0	21.00	21.11	21.07								
18	64QAM	1	25	20.96	21.10	21.11								
18	64QAM	1	49	20.92	21.01	20.90	22	0.5	21.5	0				
18	64QAM	25	0	20.47	20.59	20.46								
18	64QAM	25	12	20.42	20.52	20.48								
18	64QAM	25	25	20.58	20.60	20.61								
18	256QAM	50	0	20.41	20.63	20.46	20	2.5	19.5	2				
18	256QAM	1	25	18.65	18.72	18.58								
18	256QAM	1	25	18.63	18.64	18.51								
18	256QAM	25	0	18.51	18.50	18.57								
18	256QAM	25	12	18.45	18.62	18.50	20	2.5	19.5	2				
18	256QAM	25	25	18.50	18.50	18.57								
18	256QAM	50	0	18.49	18.60	18.48								
18	256QAM	50	0	18.49	18.60	18.48								
Channel														
1805 1800 1805														
5	QPSK	1	0	21.06	21.18	21.12	22.5	0	21.5	0				
5	QPSK	1	12	21.06	21.00	21.10								
5	QPSK	1	24	20.91	20.99	20.99								
5	QPSK	12	0	21.01	21.10	21.13								
5	QPSK	12	7	21.04	21.13	21.04	22.5	0	21.5	0				
5	QPSK	12	13	20.91	20.99	20.98								
5	QPSK	25	0	21.05	21.12	21.12								
5	16QAM	1	0	20.99	21.14	21.14								
5	16QAM	1	12	20.93	20.99	20.97	22.5	0	21.5	0				
5	16QAM	1	24	20.99	21.21	21.16								
5	16QAM	12	0	20.98	21.18	21.03								
5	16QAM	12	7	20.87	20.90	20.96								
5	16QAM	12	13	21.08	21.10	21.13	22.5	0	21.5	0				
5	16QAM	25	0	21.01	21.11	21.04								
5	64QAM	1	0	21.07	21.14	21.06								
5	64QAM	1	12	20.98	21.10	21.04								
5	64QAM	1	24	20.95	20.90	21.02	22	0.5	21.5	0				
5	64QAM	12	0	20.52	20.62	20.48								
5	64QAM	12	7	20.50	20.53	20.54								
5	64QAM	12	13	20.58	20.67	20.55								
5	256QAM	25	0	20.51	20.56	20.49	20	2.5	19.5	2				
5	256QAM	1	7	18.60	18.72	18.60								
5	256QAM	1	12	18.58	18.60	18.48								
Channel														
1805 1800 1805														
3	QPSK	1	0	21.00	21.15	21.10	22.5	0	21.5	0				
3	QPSK	1	8	21.00	21.10	21.03								
3	QPSK	1	16	21.02	21.04	21.04								
3	QPSK	8	4	21.08	21.10	21.11								
3	QPSK	8	4	21.06	21.10	21.10	22.5	0	21.5	0				
3	QPSK	8	12	20.92	20.98	21.00								
3	QPSK	16	0	21.08	21.14	21.10								
3	16QAM	1	0	20.95	21.11	21.09								
3	16QAM	1	8	21.01	21.17	21.09	22.5	0	21.5	0				
3	16QAM	1	16	20.91	21.05	21.04								
3	16QAM	8	4	21.00	21.10	21.10								
3	16QAM	8	12	20.90	21.00	21.00								
3	16QAM	1	0	21.01	21.21	21.10	22.5	0	21.5	0				
3	16QAM	1	8	20.95	21.19	21.04								
3	16QAM	1	16	21.05	21.09	21.09								
3	16QAM	8	4	20.47	20.58	20.48								
3	64QAM	8	4	20.50	20.60	20.45	20	2.5	19.5	2				
3	64QAM	1	8	18.60	18.68	18.51								
3	64QAM	1	16	18.60	18.68	18.51								
3	64QAM	16	0	20.43	20.54	20.47								
3	256QAM	1	0	18.63	18.73	18.60	20	2.5	19.5	2				
3	256QAM	1	8	18.63	18.63	18.61								
3	256QAM	1	16	18.58	18.60	18.58								
3	256QAM	8	4	18.45	18.65	18.57	20	2.5	19.5	2				
3	256QAM	8	12	18.45	18.65	18.58								
3	256QAM	16	0	18.41	18.62	18.50								
3	256QAM	16	8	18.45	18.65	18.58								
3	256QAM	16	16	18.41	18.62	18.50								
3	256QAM	25	0	18.55	18.55	18.50								
Channel														
1807.7 1800 1807.4														
1.4	QPSK	1	0	21.01	21.21	21.05	22.5	0	21.5	0				
1.4	QPSK	1	8	21.01	21.18	21.04								
1.4	QPSK	1	16	20.87	20.98	20.94								
1.4	QPSK	3	4	21.07	21.12	21.05								
1.4	QPSK	3	4	21.01	21.10	21.03	22.5	0	21.5	0				
1.4	QPSK	3	8	20.96	21.07	21.01								
1.4	QPSK	8	0	21.02	21.15	21.11								
1.4	QPSK	8	8	20.99	21.10	21.07								
1.4	16QAM	1	0	21.03	21.15	21.12	22.5	0	21.5	0				
1.4	16QAM	1	8	20.86	20.98	20.93								
1.4	16QAM	1	16	21.11	21.18	21.14								
1.4	16QAM	3	4	21.03	21.17	21.12								
1.4	16QAM	3	4	20.98	21.07	21.03	22.5	0	21.5	0				
1.4	16QAM	3	8	20.92	21.05	21.03								
1.4	16QAM	8	0	21.02	21.15	21.13								
1.4	16QAM	8	8	20.99	21.10	21.07								
1.4	64QAM	1	0	21.02	21.15	21.10	22.5	0	21.5	0				
1.4	64QAM	1	8	20.87	20.98	20.94								
1.4	64QAM	1	16	21.07	21.12	21.07								
1.4	64QAM	3	4	20.94	20.92	20.90								
1.4	64QAM	3	4	20.87	20.97	20.88	20	2.5	19.5	2				
1.4	64QAM	8	0	18.57	18.67	18.63								
1.4	64QAM	8	8	18.57	18.68	18.61								
1.4	64QAM	16	0	18.52	18.54	18.47								
1.4	64QAM	16	8	18.51	18.59	18.53								
1.4	64QAM	25	0	18.60	18.67	18.63								

Band 38 Main PA Ant2 DSI1									
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)				31860	36000	38160			
20	QPSK	1	0	23.22	23.37	23.18	23.5	0	
20	QPSK	1	48	23.02	23.15	23.09			
20	QPSK	1	96	23.12	23.16	23.08			
20	QPSK	50	0	23.17	23.28	23.22	23.5	0	
20	QPSK	50	24	23.10	23.15	23.15			
20	QPSK	50	48	23.08	23.15	23.04			
20	QPSK	100	0	23.15	23.22	23.21	23.5	0	
20	16QAM	1	0	23.08	23.20	23.18			
20	16QAM	1	48	23.10	23.13	23.08			
20	16QAM	1	96	23.17	23.26	23.26	23.5	0	
20	16QAM	50	0	23.11	23.22	23.15			
20	16QAM	50	24	23.08	23.14	23.06			
20	16QAM	50	50	23.21	23.22	23.19	23.5	0	
20	16QAM	100	0	23.12	23.15	23.05			
20	16QAM	100	0	23.05	23.16	23.09			
20	64QAM	1	48	23.05	23.22	23.16	23.5	0	
20	64QAM	1	96	23.04	23.20	23.13			
20	64QAM	50	0	22.22	22.27	22.21			
20	64QAM	50	24	22.08	22.22	22.08	22.5	1	
20	64QAM	100	0	22.16	22.22	22.19			
20	256QAM	1	0	20.26	20.30	20.24	20.5	3	
20	256QAM	1	48	20.19	20.23	20.13			
20	256QAM	1	96	20.18	20.24	20.12			
20	256QAM	50	0	20.20	20.25	20.16	20.5	3	
20	256QAM	50	24	20.03	20.16	20.11			
20	256QAM	50	50	20.08	20.20	20.11			
20	256QAM	100	0	20.07	20.13	19.98	20.5	3	
Channel									
Frequency (MHz)				31860	36000	38170	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	23.23	23.34	23.23	23.5	0	
15	QPSK	1	37	23.04	23.14	23.14			
15	QPSK	1	74	23.12	23.11	23.07			
15	QPSK	36	0	23.12	23.25	23.19	23.5	0	
15	QPSK	36	20	23.08	23.15	23.18			
15	QPSK	75	0	23.15	23.27	23.21			
15	16QAM	1	0	23.13	23.16	23.09	23.5	0	
15	16QAM	1	37	23.07	23.19	23.06			
15	16QAM	1	74	23.14	23.23	23.29			
15	16QAM	36	0	23.18	23.24	23.11	23.5	0	
15	16QAM	36	20	23.04	23.15	23.06			
15	16QAM	36	36	23.07	23.28	23.20			
15	16QAM	75	0	23.15	23.13	23.02	23.5	0	
15	64QAM	1	0	23.12	23.14	23.14			
15	64QAM	1	37	23.10	23.23	23.08			
15	64QAM	1	74	23.07	23.18	23.16	22.5	1	
15	64QAM	36	0	22.11	22.17	22.13			
15	64QAM	36	20	21.94	22.14	22.09			
15	64QAM	75	0	22.15	22.12	22.00	20.5	3	
15	64QAM	75	0	21.95	22.11	22.05			
15	256QAM	1	0	20.21	20.22	20.12			
15	256QAM	1	37	20.12	20.12	20.00	20.5	3	
15	256QAM	1	74	20.07	20.15	20.11			
15	256QAM	36	0	20.04	20.19	20.11	20.5	3	
15	256QAM	36	20	19.92	20.08	20.05			
15	256QAM	36	36	19.98	20.12	20.03			
15	256QAM	75	0	20.03	20.07	19.98	20.5	3	
Channel									
Frequency (MHz)				31860	36000	38200	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	23.23	23.27	23.18	23.5	0	
10	QPSK	1	25	23.08	23.19	23.13			
10	QPSK	1	48	23.15	23.21	23.08			
10	QPSK	25	0	23.22	23.30	23.17	23.5	0	
10	QPSK	25	12	23.05	23.13	23.14			
10	QPSK	25	25	23.04	23.16	23.00			
10	16QAM	1	0	23.16	23.24	23.18	23.5	0	
10	16QAM	1	0	23.10	23.25	23.15			
10	16QAM	1	25	23.08	23.16	23.08			
10	16QAM	1	48	23.18	23.26	23.31	23.5	0	
10	16QAM	25	0	23.08	23.27	23.19			
10	16QAM	25	12	23.05	23.18	23.06			
10	16QAM	50	0	23.11	23.13	23.02	23.5	0	
10	64QAM	1	0	23.07	23.12	23.06			
10	64QAM	1	25	23.00	23.20	23.12			
10	64QAM	1	48	22.99	23.18	23.07	23.5	0	
10	64QAM	25	0	23.12	23.18	23.12			
10	64QAM	25	12	22.02	22.13	21.96			
10	64QAM	25	25	22.11	22.17	22.05	22.5	1	
10	64QAM	50	0	22.04	22.14	22.07			
10	256QAM	1	0	20.20	20.18	20.11			
10	256QAM	1	25	20.11	20.13	20.01	20.5	3	
10	256QAM	1	48	20.14	20.15	20.03			
10	256QAM	25	0	20.04	20.17	20.10			
10	256QAM	25	12	19.99	20.04	19.97	20.5	3	
10	256QAM	25	25	20.03	20.06	20.00			
10	256QAM	50	0	19.98	20.09	19.91			
Channel									
Frequency (MHz)				31775	36000	38250	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	23.18	23.26	23.12	23.5	0	
5	QPSK	1	12	23.04	23.12	23.12			
5	QPSK	1	24	23.09	23.10	23.05			
5	QPSK	12	0	23.27	23.24	23.18	23.5	0	
5	QPSK	12	7	23.13	23.21	23.13			
5	QPSK	12	18	23.00	23.12	23.01			
5	QPSK	25	0	23.16	23.21	23.26	23.5	0	
5	16QAM	1	0	23.07	23.14	23.12			
5	16QAM	1	12	23.05	23.18	23.13			
5	16QAM	1	24	23.19	23.28	23.26	23.5	0	
5	16QAM	12	0	23.06	23.22	23.16			
5	16QAM	12	7	23.08	23.14	23.07			
5	16QAM	12	13	23.16	23.16	23.14	23.5	0	
5	16QAM	25	0	23.13	23.12	23.06			
5	64QAM	1	0	23.12	23.18	23.07	23.5	0	
5	64QAM	1	12	22.96	23.22	23.11			
5	64QAM	1	24	23.09	23.22	23.09			
5	64QAM	12	0	22.10	22.21	22.14	22.5	1	
5	64QAM	12	7	22.06	22.15	22.00			
5	64QAM	12	13	22.18	22.18	22.06			
5	64QAM	25	0	22.06	22.16	22.06	20.5	3	
5	256QAM	1	0	20.17	20.15	20.05			
5	256QAM	1	12	20.16	20.16	20.02			
5	256QAM	1	24	20.10	20.11	20.01	20.5	3	
5	256QAM	12	0	20.00	20.11	20.09			
5	256QAM	12	7	19.92	20.03	19.97			
5	256QAM	12	13	20.01	20.16	20.07	20.5	3	
5	256QAM	25	0	19.98	20.05	19.95			

Band 41 Main PA Ant2 DSI1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Power High Noise Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.23	23.25	23.40	23.27	23.22	23.22	23.5	0
20	QPSK	1	48	23.03	23.17	23.20	23.20	23.08			
20	QPSK	1	96	23.18	23.19	23.30	23.24	23.20			
20	QPSK	50	0	23.16	23.30	23.42	23.26	23.22		23.5	0
20	QPSK	50	24	23.00	23.21	23.21	23.21	23.18			
20	QPSK	50	48	23.15	23.26	23.42	23.27	23.22			
20	16QAM	1	0	23.26	23.20	23.26	23.26	23.18		23.5	0
20	16QAM	1	48	23.15	23.44	23.20	23.20	23.12			
20	16QAM	1	96	23.17	23.32	23.26	23.26	23.25			
20	16QAM	50	0	23.09	23.25	23.27	23.20	23.13		23.5	0
20	16QAM	50	24	23.14	23.21	23.30	23.24	23.19			
20	16QAM	50	48	23.18	23.26	23.28	23.26	23.19			
20	16QAM	100	0	23.04	23.21	23.22	23.20	23.17		23.5	0
20	16QAM	100	24	23.14	23.21	23.30	23.24	23.19			
20	16QAM	100	48	23.07	23.23	23.26	23.20	23.09			
20	64QAM	1	0	23.17	23.19	23.22	23.22	23.18		23.5	0
20	64QAM	50	0	23.20	23.24	23.29	23.20	23.28			
20	64QAM	50	24	23.09	23.25	23.28	23.20	23.15			
20	64QAM	50	48	23.14	23.26	23.28	23.20	23.18		22.5	1
20	64QAM	100	0	23.21	23.23	23.27	23.20	23.22			
20	64QAM	100	24	23.09	23.25	23.28	23.20	23.15			
20	256QAM	1	0	23.24	23.30	23.36	23.41	23.20		20.5	3
20	256QAM	1	48	23.04	23.30	23.36	23.20	23.20			
20	256QAM	1	96	20.21	20.35	20.35	20.22	20.24			
20	256QAM	50	0	23.09	23.25	23.27	23.20	23.14		20.5	3
20	256QAM	50	24	20.14	20.14	20.30	20.20	20.14			
20	256QAM	50	48	20.20	20.21	20.29	20.18	20.14			
20	256QAM	100	0	20.20	20.21	20.29	20.18	20.14			
Channel											
Frequency (MHz)											
15	QPSK	1	0	19.728	19.713	19.606	19.608	19.616		Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	39	19.728	19.713	19.713	19.714	19.716			
15	QPSK	1	78	19.728	19.714	19.720	19.720	19.727		24	0
15	QPSK	50	0	19.716	19.713	19.734	19.731	19.737			
15	QPSK	50	24	19.716	19.726	19.738	19.738	19.740			
15	QPSK	50	48	19.726	19.721	19.730	19.728	19.734			
15	QPSK	100	0	19.706	19.725	19.725	19.725	19.718			
15	QPSK	100	24	19.721	19.731	19.744	19.740	19.737			
15	16QAM	1	0	19.731	19.731	19.744	19.740	19.737			
15	16QAM	1	39	19.731	19.721	19.732	19.734	19.733			
15	16QAM	50	0	19.734	19.727	19.738	19.738	19.740		23.5	0
15	16QAM	50	24	19.699	19.730	19.737	19.734	19.736			
15	16QAM	50	48	19.734	19.734	19.739	19.739	19.739			
15	16QAM	100	0	19.734	19.729	19.734	19.730	19.731		23.5	0
15	16QAM	100	24	19.720	19.730	19.740	19.736	19.737			
15	16QAM	100	48	19.711	19.726	19.738	19.733	19.731			
15	64QAM	1	0	19.692	19.727	19.733	19.731	19.695		23.5	0
15	64QAM	1	39	19.734	19.720	19.733	19.733	19.735			
15	64QAM	50	0	19.717	19.730	19.732	19.722	19.734			
15	64QAM	50	24	19.694	19.711	19.722	19.697	19.697		22.5	1
15	64QAM	50	48	19.723	19.723	19.723	19.723	19.723			
15	64QAM	100	0	19.716	19.726	19.726	19.714	19.697			
15	256QAM	1	0	19.716	19.726	19.726	19.714	19.697			
15	256QAM	1	39	19.716	19.726	19.726	19.714	19.697			
15	256QAM	50	0	19.695	19.693	19.693	19.690	19.695		20.5	3
15	256QAM	50	24	19.700	19.693	19.693	19.690	19.695			
15	256QAM	50	48	19.700	19.696	19.692	19.690	19.690			
15	256QAM	100	0	19.697	19.697	19.692	19.690	19.690			
Channel											
Frequency (MHz)											
10	QPSK	1	0	19.708	19.690	19.606	19.606	19.606		Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	24	19.708	19.690	19.713	19.713	19.713			
10	QPSK	1	48	19.708	19.701	19.713	19.713	19.713		24	0
10	QPSK	50	0	19.708	19.713	19.713	19.713	19.713			
10	QPSK	50	24	19.708	19.713	19.713	19.713	19.713			
10	QPSK	50	48	19.708	19.713	19.713	19.713	19.713			
10	QPSK	100	0	19.708	19.713	19.713	19.713	19.713		23.5	0
10	QPSK	100	24	19.708	19.713	19.713	19.713	19.713			
10	16QAM	1	0	19.708	19.713	19.713	19.713	19.713			
10	16QAM	1	48	19.713	19.713	19.713	19.713	19.713		23.5	0
10	16QAM	50	0	19.713	19.713	19.713	19.713	19.713			
10	16QAM	50	24	19.713	19.713	19.713	19.713	19.713			
10	16QAM	50	48	19.713	19.713	19.713	19.713	19.713			
10	16QAM	100	0	19.713	19.713	19.713	19.713	19.713		23.5	0
10	16QAM	100	24	19.713	19.713	19.713	19.713	19.713			
10	16QAM	100	48	19.713	19.713	19.713	19.713	19.713			
10	64QAM	1	0	19.713	19.713	19.713	19.713	19.713			
10	64QAM	1	24	19.713	19.713	19.713	19.713	19.713		23.5	0
10	64QAM	50	0	19.713	19.713	19.713	19.713	19.713			
10	64QAM	50	24	19.713	19.713	19.713	19.713	19.713			
10	64QAM	50	48	19.713	19.713	19.713	19.713	19.713			
10	64QAM	100	0	19.713	19.713	19.713	19.713	19.713		23.5	0
10	64QAM	100	24	19.713	19.713	19.713	19.713	19.713			
10	64QAM	100	48	19.713	19.713	19.713	19.713	19.713			
10	256QAM	1	0	19.713	19.713	19.713	19.713	19.713		20.5	3
10	256QAM	1	24	19.713	19.713	19.713	19.713	19.713			
10	256QAM	50	0	19.713	19.713	19.713	19.713	19.713			
10	256QAM	50	24	19.713	19.713	19.713	19.713	19.713			
10	256QAM	50	48	19.713	19.713	19.713	19.713	19.713			
10	256QAM	100	0	19.713	19.713	19.713	19.713	19.713		20.5	3
10	256QAM	100	24	19.713	19.713	19.713	19.713	19.713			
10	256QAM	100	48	19.713	19.713	19.713	19.713	19.713			
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.607	23.616	40.006	40.006	41.660		Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	144	23.607	23.616	23.616	23.616	23.616			
5	QPSK	1	288	23.607	23.616	23.616	23.616	23.616		24	0
5	QPSK	12	0	23.617	23.614	23.616	23.616	23.616			
5	QPSK	12	6	23.617	23.614	23.616	23.616	23.616			
5	QPSK	12	12	23.617	23.614	23.616	23.616	23.616			
5	QPSK	25	0	23.622	23.613	23.613	23.613	23.618		23.5	0
5	QPSK	25	12	23.627	23.616	23.616	23.616	23.618			
5	QPSK	25	24	23.618	23.619	23.616	23.616	23.618			
5	16QAM	1	0	23.622	23.613	23.613	23.613	23.618			
5	16QAM	1	144	23.617	23.629	23.616	23.616	23.620		23.5	0
5	16QAM	1	288	23.627	23.623	23.616	23.616	23.621			
5	16QAM	12	0	23.615	23.621	23.621	23.621	23.621		23.5	0
5	16QAM	12	18	23.619	23.624	23.614	23.621	23.617			
5	16QAM	12	36	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	54	23.620	23.622	23.622	23.622	23.622		23.5	0
5	16QAM	12	72	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	90	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	108	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	126	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	144	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	162	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	180	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	198	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	216	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	234	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	252	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	270	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	288	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	306	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	324	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	342	23.620	23.622	23.622	23.622	23.622			
5	16QAM	12	360	23.620	23.622	23.622	23.6				

Band 4 Main PA Ant3												
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.52	22.51	22.57	24.5	0				
20	QPSK	1	49	22.58	22.53	22.50						
20	QPSK	1	99	21.53	21.51	21.51						
20	QPSK	50	0	21.50	21.50	21.51						
20	QPSK	50	24	21.51	21.51	21.51	23.5	1				
20	QPSK	50	50	21.53	21.51	21.50						
20	QPSK	100	0	21.50	21.57	21.52						
20	16QAM	50	0	21.51	21.51	21.51						
20	16QAM	1	49	21.53	21.55	21.59	23.5	1				
20	16QAM	1	99	21.54	21.51	21.53						
20	16QAM	50	0	20.74	20.91	20.75						
20	16QAM	50	24	20.69	20.73	20.97						
20	16QAM	50	50	20.73	20.77	20.73	22.5	2				
20	16QAM	100	0	20.68	20.73	20.93						
20	64QAM	1	0	20.54	20.55	20.62						
20	64QAM	1	49	20.57	20.59	20.50						
20	64QAM	1	99	20.59	20.55	20.51	21.5	3				
20	64QAM	50	24	19.53	19.58	19.52						
20	64QAM	50	50	19.58	19.63	19.56						
20	64QAM	100	0	19.52	19.55	19.59						
20	256QAM	1	0	17.55	17.55	17.54	19.5	5				
20	256QAM	1	99	17.55	17.51	17.52						
20	256QAM	50	0	17.53	17.73	17.68						
20	256QAM	50	24	17.54	17.68	17.59						
20	256QAM	50	50	17.60	17.72	17.57	19.5	5				
20	256QAM	100	0	17.61	17.68	17.56						
Channel												
Frequency (MHz)												
16	QPSK	1	0	22.57	22.56	22.54	24.5	0				
16	QPSK	1	37	22.54	22.54	22.55						
16	QPSK	1	74	22.54	22.55	22.54						
16	QPSK	36	0	21.53	21.58	21.62						
16	QPSK	36	0	21.58	21.51	21.64	23.5	1				
16	QPSK	36	39	21.50	21.59	21.54						
16	QPSK	75	0	21.52	21.59	21.56						
16	16QAM	1	0	21.60	21.65	21.65						
16	16QAM	1	37	21.68	21.67	21.73	23.5	1				
16	16QAM	1	74	21.61	21.60	21.62						
16	16QAM	36	20	20.75	20.80	20.70						
16	16QAM	36	20	20.82	20.78	20.82						
16	16QAM	75	0	20.84	20.84	20.79	22.5	2				
16	64QAM	1	0	20.58	20.68	20.50						
16	64QAM	1	37	20.62	20.59	20.62						
16	64QAM	1	74	20.54	20.52	20.50						
16	64QAM	36	0	19.59	19.63	19.66	21.5	3				
16	64QAM	36	20	19.63	19.58	19.64						
16	64QAM	36	39	19.57	19.63	19.57						
16	64QAM	75	0	19.65	19.70	19.62						
16	256QAM	1	37	17.50	17.50	17.51	19.5	5				
16	256QAM	1	74	17.64	17.53	17.52						
16	256QAM	36	0	17.53	17.53	17.53						
16	256QAM	36	20	17.62	17.72	17.65						
16	256QAM	36	39	17.74	17.76	17.69	19.5	5				
16	256QAM	75	0	17.61	17.61	17.67						
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.50	22.51	22.50	24.5	0				
20	QPSK	1	49	22.58	22.59	22.50						
20	QPSK	1	99	22.54	22.51	22.58						
20	QPSK	50	0	21.56	21.56	21.57						
20	QPSK	50	24	21.57	21.64	21.57	23.5	1				
20	QPSK	12	13	21.56	21.62	21.55						
20	QPSK	25	12	21.64	21.61	21.60						
20	QPSK	25	25	21.66	21.58	21.61						
20	QPSK	50	0	21.52	21.62	21.56	23.5	1				
20	16QAM	1	0	21.56	21.62	21.56						
20	16QAM	1	49	21.57	21.62	21.70						
20	16QAM	1	28	21.67	21.62	21.62						
20	16QAM	1	49	21.61	21.62	21.62	22.5	2				
20	16QAM	25	0	20.88	20.90	20.79						
20	16QAM	25	12	20.65	20.82	20.81						
20	16QAM	36	0	20.75	20.75	20.75						
20	16QAM	50	0	20.69	20.80	20.69	22.5	2				
20	16QAM	1	0	20.60	20.68	20.70						
20	64QAM	1	24	20.67	20.64	20.62						
20	64QAM	1	49	20.74	20.64	20.52						
20	64QAM	25	0	19.64	19.65	19.60	21.5	3				
20	64QAM	25	12	19.53	19.55	19.54						
20	64QAM	25	25	19.52	19.65	19.62						
20	64QAM	50	0	19.53	19.51	19.55						
20	256QAM	1	0	17.52	17.52	17.52	19.5	5				
20	256QAM	1	28	17.62	17.54	17.62						
20	256QAM	1	49	17.66	17.55	17.64						
20	256QAM	25	0	17.71	17.72	17.72						
20	256QAM	25	12	17.57	17.70	17.74	19.5	5				
20	256QAM	25	25	17.66	17.74	17.72						
20	256QAM	50	0	17.56	17.64	17.68						
Channel												
Frequency (MHz)												
16	QPSK	1	0	22.54	22.57	22.51	24.5	0				
16	QPSK	1	12	22.57	22.54	22.59						
16	QPSK	1	24	22.54	22.51	22.58						
16	QPSK	12	0	21.56	21.56	21.57						
16	QPSK	12	7	21.57	21.64	21.57	23.5	1				
16	QPSK	12	13	21.56	21.62	21.55						
16	QPSK	12	13	21.56	21.62	21.55	23.5	1				
16	QPSK	1	0	21.52	21.60	21.53						
16	QPSK	1	24	21.56	21.52	21.60						
16	QPSK	1	49	21.57	21.52	21.60						
16	16QAM	1	0	21.52	21.60	21.53	23.5	1				
16	16QAM	1	24	21.57	21.55	21.65						
16	16QAM	12	0	20.75	20.85	20.78						
16	16QAM	12	13	20.78	20.70	20.72						
16	16QAM	25	0	20.66	20.83	20.73	22.5	2				
16	16QAM	25	12	20.67	20.77	20.75						
16	16QAM	36	0	20.69	20.81	20.69						
16	16QAM	36	20	20.61	20.58	20.56						
16	16QAM	50	0	20.59	20.68	20.59	21.5	3				
16	16QAM	50	12	20.58	20.63	20.58						
16	16QAM	50	24	20.59	20.63	20.56						
16	16QAM	50	50	20.60	20.63	20.56						
16	16QAM	100	0	20.59	20.63	20.56	19.5	5				
16	16QAM	1	0	17.60	17.61	17.60						
16	16QAM	1	12	17.60	17.71	17.69						
16	16QAM	1	24	17.60	17.61	17.61						
16	16QAM	12	0	17.59	17.68	17.77	19.5	5				
16	16QAM	12	13	17.52	17.73	17.68						
16	16QAM	12	25	17.69	17.74	17.71						
16	16QAM	25	0	17.72	17.69	17.66						
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.54	22.57	22.51	24.5	0				
20	QPSK	1	12	22.57	22.57	22.59						
20	QPSK	1	24	22.54	22.51	22.58						
20	QPSK	12	0	21.56	21.56	21.57						
20	QPSK	12	7	21.57	21.64	21.57	23.5	1				
20	QPSK	12	13	21.56	21.62	21.55						
20	QPSK	12	13	21.56	21.62	21.55	23.5	1				
20	QPSK	1	0	21.52	21.60	21.53						
20	QPSK	1	24	21.56	21.52	21.60						
20	QPSK	1	49	21.57	21.52	21.60						
20	16QAM	1	0	21.52	21.60	21.53	23.5	1				
20	16QAM	1	24	21.57	21.55	21.65						
20	16QAM	12	0	20.75	20.85	20.78						
20	16QAM	12	13	20.78	20.70	20.72						
20	16QAM	25	0	20.66	20.83	20.73	22.5	2				
20	16QAM	25	12	20.67	20.77	20.75						
20	16QAM	36	0	20.69	20.81	20.69						
20	16QAM	36	20	20.61	20.58	20.56						
20	16QAM	50	0	20.59	20.68	20.59	21.5	3				
20	16QAM	50	12	20.58	20.63	20.58						
20	16QAM	50	24	20.59	20.63	20.56						
20	16QAM	50	50	20.60	20.63	20.56						
20	16QAM	100	0	20.59	20.63	20.56	19.5	5				
20	16QAM	1	0	17.60	17.61	17.60						
20	16QAM	1	12	17.60	17.71	17.69						
20	16QAM	1	24	17.60	17.61	17.61						
20	16QAM	12	0	17.59	17.68	17.77	19.5	5				
20	16QAM	12	13	17.52	17.73	17.68						
20	16QAM	12	25	17.69	17.74	17.71						
20	16QAM	25	0	17.72	17.69	17.66						
Channel												
Frequency (MHz)												
16	QPSK	1	0	22.54	22.57	22.51	24.5	0				
16	QPSK	1	12	22.57	22.57	22.59						
16	QPSK	1	24	22.54	22.51	22.58						
16	QPSK	12	0	21.56	21.56	21.57						
16	QPSK	12	7	21.57	21.64	21.57	23.5	1				
16	QPSK	12	13	21.56	21.62	21.55						
16	QPSK	12	13	21.56	21.62	21.55	23.5	1				
16	QPSK	1	0	21.52	21.60	21.53						
16	QPSK	1	24	21.56	21.52	21.60						
16	QPSK	1	49	21.57	21.52	21.60						
16	16QAM	1	0	21.52	21.60	21.53	23.5	1				
16	16QAM	1	24	21.57	21.55	21.65						
16	16QAM	12	0	20.75	20.85	20.78						
16	16QAM	12	13	20.78	20.70	20.72						
16	16QAM	25										

Band 38 Main PA Ant3												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch [FHz]	Power Main Ch [FHz]	Power High Ch [FHz]	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.95	22.95	22.95	24.5	0				
20	QPSK	1	48	22.90	23.04	22.94						
20	QPSK	1	96	22.91	22.99	22.96						
20	QPSK	50	0	22.10	22.25	22.13						
20	QPSK	50	24	22.08	22.19	22.16	23.5	1				
20	QPSK	50	48	22.05	22.14	22.08						
20	QPSK	100	0	22.04	22.10	22.02						
20	16QAM	1	0	21.96	22.00	21.96						
20	16QAM	1	48	21.95	22.05	21.95	23.5	1				
20	16QAM	50	0	21.98	21.15	21.08						
20	16QAM	50	24	20.94	21.07	20.98						
20	16QAM	50	50	21.02	21.11	21.07						
20	16QAM	100	0	20.93	21.05	20.94	22.5	2				
20	64QAM	1	0	20.75	20.83	20.73						
20	64QAM	1	48	20.70	20.77	20.88						
20	64QAM	50	0	20.91	20.79	20.96						
20	64QAM	50	24	20.94	20.17	20.05	21.5	3				
20	64QAM	50	50	19.95	20.08	20.02						
20	64QAM	100	0	19.94	20.05	20.02						
20	256QAM	1	0	17.84	17.87	17.83						
20	256QAM	1	48	17.80	17.84	17.79	19.5	5				
20	256QAM	1	96	17.79	17.89	17.76						
20	256QAM	50	0	18.00	18.18	18.03						
20	256QAM	50	24	17.98	18.08	17.96						
20	256QAM	50	50	18.09	18.14	18.09	19.5	5				
20	256QAM	100	0	17.95	17.94	17.94						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.81	22.87	22.82	24.5	0				
15	QPSK	1	37	22.82	22.80	22.86						
15	QPSK	1	74	22.85	22.85	22.77						
15	QPSK	36	0	21.96	22.22	22.02						
15	QPSK	36	20	21.94	22.06	22.12	23.5	1				
15	QPSK	36	36	21.92	22.08	22.01						
15	QPSK	75	0	22.00	22.08	21.94						
15	16QAM	1	0	22.01	22.06	21.88						
15	16QAM	1	37	21.95	21.92	21.91	23.5	1				
15	16QAM	1	74	21.88	21.90	21.82						
15	16QAM	36	0	20.95	21.08	20.94						
15	16QAM	36	20	20.93	21.05	20.87						
15	16QAM	36	36	20.91	21.06	20.96	22.5	2				
15	16QAM	75	0	20.83	20.92	20.88						
15	64QAM	1	0	20.71	20.75	20.81						
15	64QAM	1	37	20.58	20.66	20.60						
15	16QAM	1	74	20.51	20.60	20.58	22.5	2				
15	64QAM	36	0	19.96	20.02	19.92						
15	64QAM	36	20	19.87	20.04	19.93						
15	64QAM	36	36	19.82	20.02	19.86						
15	64QAM	75	0	19.94	19.94	19.90	21.5	3				
15	256QAM	1	0	17.73	17.82	17.84						
15	256QAM	1	37	17.73	17.82	17.75						
15	256QAM	1	74	17.68	17.81	17.65						
15	256QAM	36	0	18.02	18.06	17.93	19.5	5				
15	256QAM	36	20	17.90	17.99	17.82						
15	256QAM	36	36	18.04	18.01	18.02						
15	256QAM	75	0	17.82	17.96	17.88						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.90	22.90	22.90	24.5	0				
10	QPSK	1	25	22.87	22.91	22.82						
10	QPSK	1	48	22.82	22.81	22.74						
10	QPSK	50	0	22.04	22.08	22.04						
10	QPSK	25	12	22.01	22.07	22.06	23.5	1				
10	QPSK	25	25	21.96	22.02	22.00						
10	QPSK	25	48	22.00	22.12	22.01						
10	16QAM	1	0	21.96	22.05	21.96						
10	16QAM	1	25	21.98	21.98	21.88	23.5	1				
10	16QAM	1	48	21.87	21.93	21.89						
10	16QAM	25	0	20.95	21.08	20.96						
10	16QAM	25	12	20.87	20.83	20.89						
10	16QAM	25	25	20.89	20.97	21.01	22.5	2				
10	16QAM	50	0	20.89	20.95	20.80						
10	64QAM	1	0	20.68	20.72	20.68						
10	64QAM	1	25	20.65	20.70	20.59						
10	64QAM	1	48	20.57	20.62	20.62	22.5	2				
10	64QAM	25	0	19.97	20.14	19.97						
10	64QAM	25	12	19.91	20.00	19.97						
10	64QAM	25	25	20.06	20.07	19.95						
10	64QAM	50	0	19.81	20.01	19.92	21.5	3				
10	256QAM	1	0	17.76	17.85	17.81						
10	256QAM	1	25	17.73	17.83	17.73						
10	256QAM	1	48	17.76	17.82	17.63						
10	256QAM	25	0	17.99	18.05	17.92	19.5	5				
10	256QAM	25	12	17.96	18.00	17.96						
10	256QAM	25	25	17.97	18.02	17.99						
10	256QAM	50	0	17.86	17.97	17.82						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.90	22.90	22.92	24.5	0				
5	QPSK	1	12	22.78	22.95	22.87						
5	QPSK	1	24	22.78	22.84	22.82						
5	QPSK	12	0	22.03	22.14	22.09						
5	QPSK	12	7	22.03	22.12	22.09	23.5	1				
5	QPSK	12	19	22.00	22.02	21.99						
5	QPSK	25	0	21.97	22.05	21.96						
5	16QAM	1	0	21.93	22.04	21.89						
5	16QAM	1	12	21.84	21.95	21.90	23.5	1				
5	16QAM	1	24	21.94	21.96	21.86						
5	16QAM	12	0	21.03	21.11	20.97						
5	16QAM	12	7	20.87	20.99	20.94						
5	16QAM	12	13	20.89	20.97	20.93	22.5	2				
5	16QAM	25	0	20.84	20.91	20.80						
5	64QAM	1	0	20.69	20.74	20.68						
5	64QAM	1	12	20.67	20.84	20.68						
5	64QAM	1	24	20.54	20.70	20.55	21.5	3				
5	64QAM	12	0	19.96	20.09	19.93						
5	64QAM	12	7	19.81	19.98	19.88						
5	64QAM	12	13	20.07	20.10	19.91						
5	256QAM	1	0	17.80	17.84	17.80	19.5	5				
5	256QAM	1	12	17.79	17.81	17.70						
5	256QAM	1	24	17.84	17.82	17.63						
5	256QAM	12	0	18.00	18.14	17.92						
5	256QAM	12	7	17.94	18.02	17.90	19.5	5				
5	256QAM	12	13	17.97	18.11	18.03						
5	256QAM	25	0	17.82	17.94	17.86						
5	256QAM	25	0	17.82	17.94	17.86						

Band 41 Main PA Ant3												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power Phase Match Ch / Freq	Power Phase Match Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel												
Frequency (MHz)												
20	QPSK	1	0	39750	40165	40600	41050	41490	24.5	0		
20	QPSK	1	48	2560	2569.5	2593	2638	2680				
20	QPSK	1	96	23.03	22.98	23.12	23.07	23.03				
20	QPSK	50	0	23.01	22.97	23.10	22.97	23.00				
20	QPSK	50	24	22.28	22.15	22.30	22.28	22.25	23.5	1		
20	QPSK	50	50	22.17	22.12	22.24	22.18	22.05				
20	QPSK	50	74	22.10	22.05	22.15	22.10	22.00				
20	16QAM	1	0	22.11	22.17	22.17	22.13	22.00				
20	16QAM	1	48	22.14	22.06	22.14	22.11	22.04	23.5	1		
20	16QAM	1	96	22.06	22.06	22.06	22.04	22.04				
20	16QAM	50	0	21.17	21.14	21.26	21.23	21.11				
20	16QAM	50	24	21.07	21.04	21.16	21.14	21.06				
20	16QAM	50	50	21.17	21.11	21.27	21.19	21.08	22.5	2		
20	16QAM	100	0	21.08	21.08	21.13	21.05	20.95				
20	16QAM	100	24	20.96	20.96	21.00	20.92	20.84				
20	16QAM	1	48	20.91	20.78	20.89	20.84	20.70				
20	16QAM	50	96	20.78	20.66	20.80	20.78	20.67	22.5	2		
20	16QAM	50	120	20.70	20.12	20.18	20.18	20.11				
20	16QAM	50	24	20.08	20.08	20.21	20.11	20.00				
20	16QAM	50	48	20.07	20.03	20.11	20.10	20.06				
20	16QAM	100	0	20.07	20.03	20.11	20.10	20.06	21.5	3		
20	16QAM	100	24	19.98	19.94	20.00	19.95	19.94				
20	25QAM	1	0	18.96	17.94	18.99	18.93	17.99				
20	25QAM	1	48	17.90	18.00	18.00	17.87	17.89				
20	25QAM	1	96	17.89	17.92	18.02	17.88	17.90	19.5	5		
20	25QAM	50	0	18.28	18.14	18.34	18.10	18.14				
20	25QAM	50	24	18.18	18.06	18.20	18.08	18.11				
20	25QAM	50	50	18.12	18.17	18.21	18.14	18.05				
20	25QAM	100	0	18.07	18.09	18.09	18.04	18.05	21.5	3		
Channel												
Frequency (MHz)												
15	QPSK	1	0	39752	40173	40600	41060	41500			25	0
15	QPSK	1	48	22.99	22.94	23.03	22.97	22.93				
15	QPSK	1	96	22.91	22.88	23.04	22.91	22.88				
15	QPSK	1	74	22.94	22.89	23.01	22.90	22.88				
15	QPSK	50	0	22.21	22.10	22.25	22.17	22.22	23.5	1		
15	QPSK	50	24	22.13	22.08	22.16	22.24	22.04				
15	QPSK	50	48	22.03	22.02	22.11	22.05	22.01				
15	QPSK	50	74	22.10	22.11	22.20	22.15	22.08				
15	16QAM	1	0	22.05	22.11	22.07	22.08	21.95	23.5	1		
15	16QAM	1	48	22.04	22.04	22.10	22.03	22.00				
15	16QAM	1	96	21.87	21.94	22.00	22.05	21.89				
15	16QAM	50	0	21.09	21.16	21.15	21.13	20.99				
15	16QAM	50	24	21.02	21.02	21.03	21.02	21.02	22.5	2		
15	16QAM	50	36	21.03	21.02	21.24	21.11	21.04				
15	16QAM	75	0	20.93	21.00	20.98	20.99	20.89				
15	16QAM	75	24	20.93	20.79	20.98	20.79	20.80				
15	16QAM	1	37	20.61	20.74	20.73	20.74	20.67	22.5	2		
15	16QAM	1	74	20.73	20.74	20.73	20.74	20.67				
15	16QAM	36	0	20.08	20.05	20.17	20.09	20.02				
15	16QAM	36	20	20.02	20.01	20.17	19.97	20.00				
15	16QAM	75	0	19.94	20.04	20.15	19.97	19.99	21.5	3		
15	16QAM	75	0	19.90	19.94	20.01	20.10	19.87				
15	25QAM	1	0	17.92	17.94	18.06	17.98	17.91				
15	25QAM	1	48	17.94	17.97	18.00	17.93	17.95				
15	25QAM	1	74	17.76	17.88	17.97	17.77	17.80	19.5	5		
15	25QAM	50	0	18.25	18.05	18.24	18.02	18.01				
15	25QAM	50	24	18.18	17.98	18.08	17.98	18.00				
15	25QAM	50	48	18.05	18.04	18.09	18.10	17.94				
15	25QAM	100	0	17.98	17.91	18.00	17.94	17.87	21.5	3		
Channel												
Frequency (MHz)												
5	QPSK	1	0	39750	40165	40600	41060	41500			25	0
5	QPSK	1	48	23.01	22.98	23.15	23.08	23.02				
5	QPSK	1	96	22.91	22.83	23.03	22.83	22.87				
5	QPSK	1	24	22.93	22.84	23.08	22.89	22.87				
5	QPSK	12	0	22.12	22.10	22.13	22.09	22.12	23.5	1		
5	QPSK	25	12	22.10	22.00	22.17	22.18	22.09				
5	QPSK	25	24	22.13	22.18	22.18	22.18	22.18				
5	QPSK	50	0	22.10	22.01	22.24	22.09	22.02				
5	16QAM	1	0	21.97	22.03	22.08	22.09	21.89	23.5	1		
5	16QAM	1	48	22.03	22.01	22.08	22.09	21.91				
5	16QAM	1	96	21.90	22.02	22.08	22.06	21.89				
5	16QAM	25	0	21.11	21.12	21.19	21.13	20.98				
5	16QAM	25	12	20.99	21.04	21.19	21.02	20.98	22.5	2		
5	16QAM	25	24	21.12	20.97	21.13	21.09	20.98				
5	16QAM	50	0	21.02	20.97	21.08	21.00	20.87				
5	16QAM	50	12	20.80	20.79	20.85	20.71	20.77				
5	16QAM	1	24	20.67	20.66	20.78	20.78	20.66	22.5	2		
5	16QAM	1	48	20.65	20.65	20.78	20.78	20.65				
5	16QAM	25	12	20.09	20.07	20.14	20.09	20.01				
5	16QAM	25	24	20.02	19.99	20.17	19.96	19.98				
5	16QAM	25	48	19.94	19.91	20.04	19.91	19.94	21.5	3		
5	16QAM	50	0	20.00	19.92	20.02	20.02	19.84				
5	16QAM	50	12	19.92	19.97	19.97	19.97	19.84				
5	25QAM	1	24	17.77	17.96	17.88	17.83	17.84				
5	25QAM	1	48	17.75	17.78	17.86	17.85	17.76	19.5	5		
5	25QAM	1	74	18.22	18.18	18.22	18.18	18.22				
5	25QAM	25	12	17.99	17.93	18.13	17.90	18.03				
5	25QAM	25	24	18.00	18.03	18.06	18.02	17.99				
5	25QAM	50	0	17.98	17.92	18.00	18.01	17.97	19.5	5		
Channel												
Frequency (MHz)												
5	QPSK	1	0	39670	40140	40600	41060	41565			25	0
5	QPSK	1	48	23.00	22.94	23.01	22.95	22.95				
5	QPSK	1	12	22.94	22.90	23.01	22.93	22.90				
5	QPSK	12	74	22.92	22.15	23.03	22.25	22.21				
5	QPSK	12	7	22.11	22.11	22.26	22.26	22.21	23.5	1		
5	QPSK	25	12	22.06	22.06	22.19	22.19	22.14				
5	QPSK	25	0	22.15	22.08	22.28	22.09	22.01				
5	16QAM	1	0	22.03	22.13	22.12	22.07	21.91				
5	16QAM	1	48	22.07	22.07	22.12	22.07	22.07	23.5	1		
5	16QAM	1	24	21.90	21.92	22.04	22.05	21.88				
5	16QAM	1	96	21.67	21.67	21.74	21.62	21.57				
5	16QAM	12	12	20.95	20.98	21.13	21.01	20.92				
5	16QAM	12	13	21.05	20.98	21.26	21.13	20.98	22.5	2		
5	16QAM	1	48	20.77	20.78	20.89	20.75	20.80				
5	16QAM	1	12	20.04	20.08	20.21	20.71	20.01				
5	16QAM	1	13	20.02	20.08	20.18	20.04	20.07				
5	16QAM	25	0	19.97	19.95	20.08	20.08	19.89	21.5	3		
5	16QAM	25	12	19.94	19.96	20.02	19.94	19.89				
5	25QAM	1	12	17.84	17.92	17.84	17.74	17.75				
5	25QAM	1	24	17.82	17.84	17.89	17.74	17.76				
5	25QAM	12	7	18.20	18.18	18.22	18.18	18.20	19.5	5		
5	25QAM	12	17	17.99	17.83	18.14	17.87	18.00				
5	25QAM	12	13	18.08	18.00	18.16	18.01	17.97				
5	25QAM	25	12	17.90	17.92	18.00	17.92	17.90				



Band 2 Main PA Ant4												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 1867.5	Power Mid Ch./Freq. 1868.0	Power High Ch./Freq. 1869.5	Time-up (sec)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.26	23.30	23.31	24.5	0				
20	QPSK	1	49	23.24	23.27	23.25						
20	QPSK	1	99	23.18	23.22	23.16						
20	QPSK	50	0	22.98	22.92	22.93	23.5	1				
20	QPSK	50	24	22.30	22.30	22.34						
20	QPSK	50	50	22.16	22.31	22.26						
20	QPSK	100	0	22.33	22.27	22.28	23.5	1				
20	16QAM	100	0	22.72	22.64	22.72						
20	16QAM	1	49	22.68	22.74	22.68						
20	16QAM	1	99	22.68	22.74	22.63	22.5	2				
20	16QAM	50	0	21.33	21.49	21.29						
20	16QAM	50	24	21.17	21.32	21.27						
20	16QAM	50	50	21.29	21.38	21.25	21.5	3				
20	16QAM	100	0	21.24	21.30	21.22						
20	16QAM	1	0	21.39	21.52	21.41						
20	16QAM	1	49	21.43	21.46	21.39	22.5	2				
20	16QAM	50	0	21.36	21.45	21.31						
20	16QAM	50	0	20.43	20.47	20.41						
20	16QAM	50	24	20.49	20.38	20.31	21.5	3				
20	16QAM	50	50	20.35	20.43	20.36						
20	16QAM	100	0	20.22	20.35	20.30						
20	256QAM	1	49	18.40	18.46	18.37	19.5	5				
20	256QAM	1	99	18.34	18.42	18.33						
20	256QAM	50	0	18.26	18.35	18.26						
20	256QAM	50	24	18.31	18.35	18.24	19.5	5				
20	256QAM	50	50	18.30	18.40	18.34						
20	256QAM	100	0	18.27	18.34	18.27						
Channel												
Frequency (MHz)												
16	QPSK	1	0	23.21	23.29	23.18	24.5	0				
16	QPSK	1	37	23.19	23.28	23.14						
16	QPSK	1	74	23.15	23.12	23.06						
16	QPSK	36	0	22.30	22.32	22.31	23.5	1				
16	QPSK	36	36	22.11	22.22	22.19						
16	QPSK	36	39	22.19	22.25	22.17						
16	QPSK	75	0	22.19	22.25	22.19	23.5	1				
16	16QAM	1	0	22.60	22.67	22.67						
16	16QAM	1	37	22.62	22.70	22.62						
16	16QAM	36	0	21.20	21.30	21.16	22.5	2				
16	16QAM	36	20	21.13	21.26	21.12						
16	16QAM	36	21	21.12	21.24	21.11						
16	16QAM	75	0	21.19	21.25	21.07	22.5	2				
16	16QAM	1	0	21.35	21.46	21.28						
16	16QAM	1	37	21.37	21.47	21.34						
16	16QAM	1	74	21.29	21.35	21.23	21.5	3				
16	16QAM	36	0	20.36	20.35	20.33						
16	16QAM	36	20	20.18	20.26	20.18						
16	16QAM	36	39	20.32	20.35	20.25	19.5	5				
16	16QAM	75	0	20.12	20.21	20.15						
16	256QAM	1	0	18.26	18.30	18.26						
16	256QAM	1	37	18.27	18.41	18.30	19.5	5				
16	256QAM	1	74	18.30	18.39	18.19						
16	256QAM	36	0	18.26	18.35	18.26						
16	256QAM	36	20	18.18	18.25	18.11	19.5	5				
16	256QAM	36	39	18.17	18.34	18.27						
16	256QAM	75	0	18.24	18.27	18.24						
Channel												
Frequency (MHz)												
16	QPSK	1	0	23.18	23.24	23.15	24.5	0				
16	QPSK	1	25	23.14	23.14	23.15						
16	QPSK	1	49	23.11	23.13	23.06						
16	QPSK	36	0	22.32	22.32	22.32	23.5	1				
16	QPSK	36	12	22.17	22.28	22.19						
16	QPSK	36	25	22.07	22.28	22.13						
16	QPSK	75	0	22.61	22.72	22.62	23.5	1				
16	16QAM	1	0	22.61	22.73	22.58						
16	16QAM	1	49	22.63	22.66	22.58						
16	16QAM	25	0	21.27	21.29	21.19	22.5	2				
16	16QAM	25	12	21.09	21.23	21.15						
16	16QAM	25	12	21.08	21.27	21.13						
16	16QAM	50	0	21.17	21.16	21.15	22.5	2				
16	16QAM	1	0	21.26	21.43	21.33						
16	16QAM	1	24	21.37	21.43	21.33						
16	16QAM	1	49	21.24	21.28	21.27	21.5	3				
16	16QAM	25	0	20.35	20.43	20.36						
16	16QAM	25	12	20.18	20.26	20.18						
16	16QAM	25	25	20.28	20.38	20.29	19.5	5				
16	16QAM	50	0	20.09	20.22	20.23						
16	16QAM	50	0	18.34	18.44	18.34						
16	256QAM	1	25	18.32	18.42	18.22	19.5	5				
16	256QAM	1	49	18.24	18.33	18.25						
16	256QAM	25	0	18.30	18.32	18.28						
16	256QAM	25	12	18.26	18.28	18.16	19.5	5				
16	256QAM	25	25	18.22	18.26	18.19						
16	256QAM	50	0	18.23	18.34	18.21						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.15	23.24	23.15	24.5	0				
5	QPSK	1	12	23.13	23.13	23.06						
5	QPSK	1	24	23.04	23.13	23.02						
5	QPSK	12	0	22.33	22.33	22.33	23.5	1				
5	QPSK	12	7	22.21	22.26	22.19						
5	QPSK	12	13	22.08	22.19	22.15						
5	QPSK	25	0	22.26	22.26	22.26	23.5	1				
5	16QAM	1	0	22.59	22.72	22.60						
5	16QAM	1	12	22.64	22.69	22.54						
5	16QAM	1	24	22.61	22.71	22.61	22.5	2				
5	16QAM	12	0	21.20	21.28	21.18						
5	16QAM	12	7	21.09	21.24	21.13						
5	16QAM	12	13	21.04	21.31	21.14	22.5	2				
5	16QAM	25	0	21.14	21.21	21.12						
5	16QAM	1	0	21.26	21.45	21.30						
5	16QAM	1	12	21.37	21.42	21.33	22.5	2				
5	16QAM	25	0	21.14	21.21	21.12						
5	16QAM	1	0	21.20	21.39	21.36						
5	16QAM	1	24	21.24	21.30	21.21	21.5	3				
5	16QAM	12	0	20.29	20.36	20.26						
5	16QAM	12	7	20.17	20.35	20.28						
5	16QAM	12	13	20.25	20.31	20.33	19.5	5				
5	16QAM	25	0	20.14	20.21	20.17						
5	256QAM	1	0	18.37	18.41	18.31						
5	256QAM	1	12	18.32	18.39	18.19	19.5	5				
5	256QAM	1	24	18.27	18.28	18.23						
5	256QAM	12	0	18.26	18.31	18.28						
5	256QAM	12	7	18.19	18.28	18.11	19.5	5				
5	256QAM	12	13	18.26	18.21	18.22						
5	256QAM	25	0	18.16	18.28	18.23						
Channel												
Frequency (MHz)												
3	QPSK	1	0	23.13	23.31	23.25	24.5	0				
3	QPSK	1	8	23.13	23.23	23.07						
3	QPSK	1	14	23.13	23.14	23.12						
3	QPSK	8	0	22.31	22.33	22.28	23.5	1				
3	QPSK	8	4	22.23	22.31	22.14						
3	QPSK	8	7	22.10	22.19	22.20						
3	QPSK	15	0	22.22	22.27	22.19	23.5	1				
3	16QAM	1	0	22.64	22.67	22.60						
3	16QAM	1	8	22.67	22.71	22.59						
3	16QAM	1	14	22.60	22.67	22.61	22.5	2				
3	16QAM	8	0	21.21	21.14	21.17						
3	16QAM	8	4	21.08	21.19	21.12						
3	16QAM	8	7	21.15	21.24	21.12	22.5	2				
3	16QAM	15	0	21.21	21.23	21.19						
3	16QAM	1	0	21.29	21.45	21.33						
3	16QAM	1	8	21.28	21.39	21.36	22.5	2				
3	16QAM	8	4	21.25	21.38	21.32						
3	16QAM	8	7	20.38	20.41	20.34						
3	16QAM	8	4	20.34	20.34	20.34	21.5	3				
3	16QAM	8	7	20.23	20.27	20.23						
3	16QAM	15	0	20.11	20.31	20.27						
3	256QAM	1	0	18.32	18.40	18.36	19.5	5				
3	256QAM	1	8	18.30	18.39	18.32						
3	256QAM	1	14	18.29	18.32	18.29						
3	256QAM	8	0	18.29	18.32	18.28	19.5	5				
3	256QAM	8	4	18.28	18.34	18.28						
3	256QAM	8	7	18.19	18.29	18.20						
3	256QAM	15	0	18.16	18.36	18.25	19.5	5				
3	256QAM	1	0	18.27	18.31	18.23						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	23.19	23.28	23.24				24.5	0	
1.4	QPSK	1	8	23.15	23.21	23.15						
1.4	QPSK	1	15	23.11	23.11	23.07						
1.4	QPSK	3	0	22.17	22.23	22.22	23.5	1				
1.4	QPSK	3	8	22.18	22.18	22.18						
1.4	QPSK	3	15	22.11	22.11	22.11						
1.4	QPSK	5	0	22.30	22.28	22.25	23.5	1				
1.4	QPSK	5	8	22.27	22.28	22.27						
1.4	QPSK	5	15	22.20	22.29	22.24						
1.4	QPSK	3	0	22.19	22.21	22.19	22.5	2				
1.4	QPSK	3	8	22.09	22.11	22.09						
1.4	QPSK	3	15	22.04	22.04	22.04						
1.4	QPSK	5	0	21.28	21.20	21.14	22.5	2				
1.4	QPSK	5	8	21.25	21.16	21.13						
1.4	QPSK	5	15	21.19	21.17	21.17						
1.4	QPSK	3	0	21.29	21.27	21.27	22.5	2				
1.4	QPSK	3	8	21.26	21.18	21.18						
1.4	QPSK	3	15	21.23	21.23	21.22						
1.4	QPSK	5	0	21.35	21.38	21.35	21.5	3				
1.4	QPSK	5	8	21.32	21.38	21.31						
1.4	QPSK	5	15	21.28	21.32	21.28						
1.4	QPSK	3	0	21.29	21.27	21.27	22.5	2				
1.4	QPSK	3	8	21.26	21.18	21.18						
1.4	QPSK	3	15	21.23	21.23	21.22						
1.4	QPSK	5	0	21.35	21.38	21.35	21.5	3				
1.4	QPSK	5	8	21.32	21.38	21.31						
1.4	QPSK	5	15	21.28	21.32	21.28						
1.4	QPSK	3	0	21.29	21.27	21.27	2					

Band 25 Main PA Ant4												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up (ms)	MPR (dB)				
Channel												
1800 1880 1900												
20	QPSK	1	0	23.31	23.42	23.27	24.5	0				
20	QPSK	1	49	23.29	23.34	23.24						
20	QPSK	1	99	23.16	23.29	23.21						
20	QPSK	50	0	22.24	22.52	22.26						
20	QPSK	50	24	22.22	22.24	22.12	23.5	1				
20	QPSK	100	0	22.16	22.25	22.20						
20	16QAM	1	0	22.48	22.59	22.47						
20	16QAM	1	99	22.52	22.55	22.43						
20	16QAM	50	0	21.31	21.39	21.28	23.5	1				
20	16QAM	50	24	21.19	21.28	21.15						
20	16QAM	50	50	21.18	21.25	21.21						
20	16QAM	100	0	21.19	21.29	21.19						
20	64QAM	1	0	21.44	21.51	21.47	22.5	2				
20	64QAM	1	49	21.31	21.45	21.39						
20	64QAM	50	0	20.31	20.42	20.32						
20	64QAM	50	24	20.19	20.33	20.22						
20	64QAM	50	50	20.27	20.30	20.26	21.5	3				
20	256QAM	1	0	18.45	18.50	18.36						
20	256QAM	1	49	18.47	18.47	18.42						
20	256QAM	1	99	18.38	18.42	18.32						
20	256QAM	50	0	18.27	18.31	18.18	19.5	5				
20	256QAM	50	24	18.25	18.37	18.33						
20	256QAM	50	50	18.23	18.37	18.33						
20	256QAM	100	0	18.23	18.30	18.25						
Channel												
1807.5 1880 1907.5												
15	QPSK	1	0	23.20	23.36	23.13	24.5	0				
15	QPSK	1	37	23.20	23.30	23.20						
15	QPSK	1	74	23.07	23.16	23.17						
15	QPSK	36	0	22.13	22.26	22.07						
15	QPSK	36	20	22.15	22.15	22.07	23.5	1				
15	QPSK	36	39	22.12	22.09	22.06						
15	QPSK	75	0	22.09	22.16	22.07						
15	16QAM	1	0	22.45	22.54	22.49						
15	16QAM	1	37	22.38	22.59	22.33	23.5	1				
15	16QAM	1	74	22.43	22.47	22.43						
15	16QAM	36	0	21.18	21.22	21.23						
15	16QAM	36	20	21.13	21.18	21.08						
15	16QAM	36	0	21.04	21.12	21.09	22.5	2				
15	64QAM	1	0	21.32	21.42	21.41						
15	64QAM	1	37	21.35	21.47	21.47						
15	64QAM	1	74	21.17	21.20	21.19						
15	64QAM	36	0	20.20	20.36	20.17	21.5	3				
15	64QAM	36	20	20.20	20.27	20.17						
15	64QAM	36	39	20.22	20.25	20.19						
15	64QAM	75	0	20.22	20.23	20.16						
15	256QAM	1	0	18.34	18.46	18.34	19.5	5				
15	256QAM	1	37	18.34	18.52	18.29						
15	256QAM	1	74	18.29	18.36	18.22						
15	256QAM	36	0	18.18	18.38	18.32						
15	256QAM	36	20	18.13	18.25	18.11	19.5	5				
15	256QAM	36	39	18.15	18.32	18.26						
15	256QAM	75	0	18.13	18.26	18.28						
Channel												
1809.5 1880 1909.5												
10	QPSK	1	0	23.27	23.30	23.15	24.5	0				
10	QPSK	1	25	23.17	23.24	23.20						
10	QPSK	1	49	23.10	23.18	23.09						
10	QPSK	25	12	22.16	22.19	22.07						
10	QPSK	25	19	22.04	22.11	22.01	23.5	1				
10	QPSK	50	0	22.12	22.12	22.12						
10	16QAM	1	0	22.42	22.50	22.47						
10	16QAM	1	25	22.34	22.50	22.42						
10	16QAM	1	49	22.45	22.49	22.36	23.5	1				
10	16QAM	25	0	21.22	21.29	21.19						
10	16QAM	25	12	21.14	21.17	21.08						
10	16QAM	25	19	21.05	21.10	21.15						
10	16QAM	50	0	21.08	21.10	21.07	22.5	2				
10	64QAM	1	0	21.32	21.36	21.44						
10	64QAM	1	25	21.35	21.35	21.38						
10	64QAM	1	49	21.17	21.34	21.18						
10	64QAM	25	0	20.24	20.30	20.29	21.5	3				
10	64QAM	25	12	20.25	20.30	20.18						
10	64QAM	25	19	20.23	20.30	20.20						
10	64QAM	50	0	20.20	20.22	20.20						
10	256QAM	1	0	18.40	18.43	18.33	19.5	5				
10	256QAM	1	25	18.36	18.39	18.33						
10	256QAM	1	49	18.30	18.35	18.27						
10	256QAM	25	0	18.21	18.25	18.21						
10	256QAM	25	12	18.20	18.20	18.12	19.5	5				
10	256QAM	25	19	18.11	18.25	18.20						
10	256QAM	50	0	18.20	18.21	18.24						
Channel												
1809.5 1880 1909.5												
5	QPSK	1	0	23.24	23.27	23.15	24.5	0				
5	QPSK	1	12	23.18	23.20	23.15						
5	QPSK	1	24	23.02	23.15	23.14						
5	QPSK	12	0	22.13	22.16	22.16						
5	QPSK	12	7	22.09	22.21	22.16	23.5	1				
5	QPSK	12	13	22.08	22.14	22.09						
5	QPSK	25	0	22.09	22.21	22.16						
5	16QAM	1	0	22.47	22.51	22.45						
5	16QAM	1	12	22.43	22.44	22.43	23.5	1				
5	16QAM	1	24	22.37	22.45	22.33						
5	16QAM	12	0	21.17	21.33	21.24						
5	16QAM	12	7	21.07	21.24	21.07						
5	16QAM	12	13	21.09	21.27	21.09	22.5	2				
5	64QAM	1	0	21.39	21.43	21.32						
5	64QAM	1	12	21.20	21.33	21.30						
5	64QAM	1	24	21.18	21.28	21.17						
5	64QAM	12	0	20.17	20.31	20.20	21.5	3				
5	64QAM	12	7	20.08	20.20	20.13						
5	64QAM	12	13	20.20	20.30	20.20						
5	64QAM	25	0	20.19	20.16	20.21						
5	256QAM	1	0	18.31	18.39	18.33	19.5	5				
5	256QAM	1	12	18.35	18.37	18.27						
5	256QAM	1	24	18.28	18.28	18.16						
5	256QAM	12	0	18.18	18.30	18.25						
5	256QAM	12	7	18.23	18.20	18.07	19.5	5				
5	256QAM	12	13	18.12	18.32	18.21						
5	256QAM	25	0	18.14	18.26	18.25						
Channel												
1809.5 1880 1909.5												
3	QPSK	1	0	23.24	23.26	23.15	24.5	0				
3	QPSK	1	8	23.18	23.24	23.16						
3	QPSK	1	14	23.03	23.22	23.08						
3	QPSK	8	0	22.16	22.21	22.11						
3	QPSK	8	4	22.12	22.16	22.13	23.5	1				
3	QPSK	8	7	22.05	22.14	22.08						
3	QPSK	15	0	22.02	22.14	22.14						
3	16QAM	1	0	22.50	22.60	22.42						
3	16QAM	1	8	22.38	22.45	22.36	23.5	1				
3	16QAM	1	14	22.44	22.49	22.30						
3	16QAM											

Band 38 Main PA Ant4 DSI1												
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)												
20	QPSK	1	0	23.69	23.62	23.63	24.2	0				
20	QPSK	1	49	23.59	23.69	23.56						
20	QPSK	50	0	23.70	23.70	23.63						
20	QPSK	50	24	23.63	23.70	23.60						
20	QPSK	50	36	23.59	23.64	23.48	24.2	0				
20	QPSK	100	0	23.70	23.71	23.60						
20	16QAM	1	0	23.73	23.79	23.58						
20	16QAM	1	49	23.61	23.75	23.60						
20	16QAM	50	0	23.21	23.28	23.20	23.7	0.5				
20	16QAM	50	24	23.27	23.30	23.24						
20	16QAM	50	50	23.26	23.34	23.29						
20	16QAM	100	0	23.46	23.45	23.46						
20	64QAM	1	0	23.08	23.19	23.13	23.7	0.5				
20	64QAM	1	49	23.05	23.17	23.06						
20	64QAM	50	0	22.23	22.28	22.15						
20	64QAM	50	24	22.18	22.25	22.12						
20	64QAM	50	50	22.21	22.29	22.19	22.7	1.5				
20	64QAM	100	0	22.13	22.17	22.13						
20	256QAM	1	0	20.23	20.28	20.19						
20	256QAM	1	49	20.16	20.18	20.09						
20	256QAM	1	99	20.00	20.07	19.95	20.7	3.5				
20	256QAM	50	0	20.09	20.12	20.06						
20	256QAM	50	24	20.05	20.10	20.04						
20	256QAM	50	50	20.14	20.18	20.08						
20	256QAM	100	0	20.05	20.17	20.03						
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.74	23.78	23.72	24.2	0				
15	QPSK	1	37	23.65	23.77	23.62						
15	QPSK	1	74	23.65	23.68	23.47						
15	QPSK	36	0	23.74	23.77	23.57						
15	QPSK	36	20	23.59	23.76	23.65	24.2	0				
15	QPSK	36	36	23.69	23.68	23.47						
15	QPSK	75	0	23.75	23.73	23.58						
15	16QAM	1	0	23.73	23.73	23.58						
15	16QAM	1	37	23.67	23.72	23.59	24.2	0				
15	16QAM	1	74	23.61	23.71	23.54						
15	16QAM	36	0	23.67	23.22	23.05						
15	16QAM	36	36	23.10	23.15	23.13						
15	16QAM	36	36	23.10	23.21	23.18	23.7	0.5				
15	16QAM	75	0	23.07	23.15	23.11						
15	64QAM	1	0	23.04	23.18	23.10						
15	64QAM	1	37	23.03	23.11	23.07						
15	64QAM	1	74	22.97	23.04	22.93	22.7	1.5				
15	64QAM	36	0	22.12	22.23	22.11						
15	64QAM	36	20	22.08	22.10	22.03						
15	64QAM	75	0	22.05	22.10	22.04						
15	256QAM	1	0	20.14	20.14	20.05	20.7	3.5				
15	256QAM	1	37	19.95	19.95	19.82						
15	256QAM	36	0	19.95	19.99	19.97						
15	256QAM	36	20	19.89	19.99	19.97						
15	256QAM	36	36	20.01	20.05	19.99	20.7	3.5				
15	256QAM	75	0	19.99	20.13	19.95						
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.70	23.69	23.62	24.2	0				
10	QPSK	1	25	23.67	23.69	23.62						
10	QPSK	1	49	23.51	23.68	23.54						
10	QPSK	25	0	23.74	23.76	23.60						
10	QPSK	25	12	23.67	23.77	23.63	24.2	0				
10	QPSK	25	25	23.54	23.61	23.49						
10	16QAM	1	0	23.71	23.80	23.68						
10	16QAM	1	0	23.65	23.80	23.67	24.2	0				
10	16QAM	1	25	23.65	23.72	23.58						
10	16QAM	1	49	23.50	23.69	23.54						
10	16QAM	25	0	23.16	23.21	23.19						
10	16QAM	25	12	23.21	23.15	23.15	23.7	0.5				
10	16QAM	25	19	23.15	23.22	23.17						
10	16QAM	50	0	23.10	23.12	23.05						
10	64QAM	1	0	23.10	23.12	23.05	23.7	0.5				
10	64QAM	1	25	23.07	23.12	22.99						
10	64QAM	1	49	22.92	23.08	22.92						
10	64QAM	25	0	22.16	22.24	22.05						
10	64QAM	25	12	22.06	22.15	22.04	22.7	1.5				
10	64QAM	25	25	22.10	22.20	22.14						
10	64QAM	50	0	22.00	22.03	22.05						
10	256QAM	1	0	20.11	20.11	20.09						
10	256QAM	1	25	19.98	20.02	19.95	20.7	3.5				
10	256QAM	1	49	19.90	19.92	19.91						
10	256QAM	25	0	19.95	19.99	19.98						
10	256QAM	25	12	20.00	20.04	20.00						
10	256QAM	25	25	20.00	20.14	20.03	20.7	3.5				
10	256QAM	50	0	19.93	20.13	19.97						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.66	23.74	23.65	24.2	0				
5	QPSK	1	12	23.62	23.69	23.57						
5	QPSK	1	24	23.53	23.68	23.50						
5	QPSK	12	0	23.74	23.74	23.60						
5	QPSK	12	7	23.68	23.70	23.60	24.2	0				
5	QPSK	12	19	23.51	23.64	23.59						
5	QPSK	25	0	23.70	23.76	23.59						
5	16QAM	1	0	23.74	23.78	23.59						
5	16QAM	1	12	23.64	23.68	23.58	24.2	0				
5	16QAM	1	24	23.61	23.65	23.47						
5	16QAM	12	0	23.19	23.18	23.11						
5	16QAM	12	7	23.12	23.22	23.15						
5	16QAM	12	13	23.09	23.18	23.09	23.7	0.5				
5	16QAM	25	0	23.07	23.20	23.12						
5	64QAM	1	0	23.07	23.20	23.12						
5	64QAM	1	12	22.96	23.13	23.03						
5	64QAM	1	24	22.99	23.02	22.91	22.7	1.5				
5	64QAM	12	0	22.17	22.15	22.07						
5	64QAM	12	7	22.06	22.13	22.02						
5	64QAM	12	13	22.13	22.15	22.12						
5	64QAM	25	0	22.10	22.04	22.06	20.7	3.5				
5	256QAM	1	0	20.09	20.23	20.11						
5	256QAM	1	12	19.97	20.12	20.01						
5	256QAM	1	24	19.88	19.94	19.88						
5	256QAM	12	0	19.98	19.99	19.98						
5	256QAM	12	7	19.85	19.98	19.94	20.7	3.5				
5	256QAM	12	13	20.00	20.09	19.96						
5	256QAM	25	0	19.92	20.06	19.91						
5	256QAM	25	0	19.92	20.06	19.91						

Band 41 Main PA Ant4 DSI1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Low Noise Ch / Freq	Power High Ch / Freq	Power High Noise Ch / Freq	Power Ch / Freq	Power High Noise Ch / Freq	Turn-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.69	23.71	23.66	23.76	23.70		24.2	0
20	QPSK	1	49	23.63	23.60	23.71	23.65	23.64			
20	QPSK	1	99	23.62	23.60	23.72	23.62	23.62			
20	QPSK	50	0	23.60	23.74	23.65	23.72	23.75			
20	QPSK	50	24	23.60	23.65	23.69	23.68	23.62		24.2	0
20	QPSK	1	49	23.63	23.60	23.71	23.65	23.64			
20	QPSK	1	99	23.62	23.59	23.70	23.61	23.61			
20	QPSK	50	0	23.72	23.78	23.67	23.81	23.64			
20	16QAM	1	0	23.61	24.73	23.61	23.79	23.68		24.2	0
20	16QAM	1	49	23.65	23.62	23.76	23.66	23.65			
20	16QAM	1	99	23.60	23.60	23.67	23.57	23.59			
20	16QAM	50	0	23.27	23.30	23.35	23.25	23.31			
20	16QAM	50	24	23.39	23.20	23.31	23.24	23.18		23.7	0.5
20	16QAM	50	50	23.22	23.26	23.31	23.25	23.18			
20	16QAM	1	0	23.21	22.12	23.25	22.21	23.14			
20	16QAM	1	49	22.86	22.81	22.95	22.87	22.87			
20	16QAM	1	99	23.63	23.64	23.68	23.67	23.76		23.7	0.5
20	16QAM	50	0	23.38	23.39	23.42	23.32	23.37			
20	16QAM	50	24	23.25	23.29	23.33	23.23	23.27			
20	16QAM	50	50	23.27	23.31	23.35	23.27	23.34			
20	16QAM	100	0	22.18	22.24	22.30	22.23	22.16		22.7	1.5
20	16QAM	1	0	22.25	22.19	22.23	22.13	22.17			
20	16QAM	1	49	22.23	22.18	22.22	22.12	22.16			
20	16QAM	1	99	20.16	20.17	20.24	20.15	20.17			
20	16QAM	50	24	20.18	20.17	20.20	20.10	20.12		20.7	3.5
20	16QAM	50	50	19.95	20.08	20.13	20.05	20.07			
20	16QAM	50	100	20.14	20.13	20.19	20.09	20.14			
20	16QAM	100	0	20.12	20.11	20.19	20.08	20.13			
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.61	23.74	23.64	23.74	23.74		24.2	0
15	QPSK	1	24	23.66	23.62	23.74	23.71	23.63			
15	QPSK	1	74	23.61	23.66	23.68	23.59	23.54			
15	QPSK	50	0	23.60	23.69	23.68	23.74	23.68			
15	QPSK	50	25	23.63	23.67	23.74	23.70	23.64		24.2	0
15	QPSK	1	24	23.61	23.67	23.74	23.71	23.63			
15	QPSK	1	74	23.60	23.75	23.64	23.82	23.73			
15	QPSK	50	0	23.64	23.67	23.63	23.79	23.74			
15	16QAM	1	0	23.61	23.68	23.68	23.59	23.54		24.2	0
15	16QAM	1	49	23.61	23.66	23.68	23.59	23.54			
15	16QAM	1	99	23.58	23.67	23.67	23.54	23.52			
15	16QAM	50	0	23.19	23.17	23.27	23.12	23.18			
15	16QAM	50	24	23.23	23.18	23.22	23.12	23.12		23.7	0.5
15	16QAM	50	50	23.17	23.19	23.17	23.15	23.11			
15	16QAM	50	100	23.09	23.09	23.12	23.07	23.07			
15	16QAM	1	0	22.70	22.84	22.87	22.85	22.80			
15	16QAM	1	37	22.80	22.86	22.87	22.80	22.82		23.7	0.5
15	16QAM	1	74	22.79	22.82	22.86	22.77	22.76			
15	16QAM	50	0	22.25	22.25	22.29	22.24	22.28			
15	16QAM	50	25	22.18	22.10	22.20	22.11	22.15			
15	16QAM	50	50	22.11	22.19	22.21	22.10	22.14		22.7	1.5
15	16QAM	50	100	22.07	22.18	22.15	22.08	22.09			
15	16QAM	1	0	22.07	22.18	22.15	22.08	22.09			
15	16QAM	1	49	22.05	22.13	20.25	20.15	20.10			
15	16QAM	1	74	20.02	20.04	20.09	20.08	20.12		20.7	3.5
15	16QAM	50	24	20.06	20.14	20.09	20.08	20.10			
15	16QAM	50	50	19.90	20.00	20.02	19.95	19.98			
15	16QAM	50	100	20.07	20.01	20.12	20.05	20.09			
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.61	23.74	23.64	23.74	23.74		24	0
10	QPSK	1	25	23.61	23.67	23.72	23.64	23.57			
10	QPSK	1	75	23.61	23.67	23.68	23.59	23.54			
10	QPSK	50	0	23.64	23.70	23.75	23.77	23.65			
10	QPSK	25	12	23.63	23.63	23.68	23.71	23.64		24.2	0
10	QPSK	25	37	23.63	23.63	23.68	23.71	23.64			
10	QPSK	50	0	23.69	23.68	23.64	23.82	23.76			
10	QPSK	50	25	23.64	23.76	23.80	23.82	23.64			
10	16QAM	1	0	23.61	23.65	23.65	23.59	23.54		24.2	0
10	16QAM	1	49	23.61	23.66	23.68	23.54	23.50			
10	16QAM	1	99	23.21	23.26	23.22	23.25	23.27			
10	16QAM	50	0	23.11	23.16	23.18	23.10	23.13			
10	16QAM	25	25	23.08	23.16	23.23	23.14	23.09		23.7	0.5
10	16QAM	25	50	23.02	23.10	23.18	23.09	23.06			
10	16QAM	1	0	22.81	22.84	22.88	22.85	22.81			
10	16QAM	1	25	22.79	22.73	22.88	22.72	22.80			
10	16QAM	1	75	22.68	22.70	22.83	22.67	22.68		23.7	0.5
10	16QAM	25	0	22.31	22.20	22.28	22.22	22.33			
10	16QAM	25	12	22.20	22.09	22.29	22.15	22.15			
10	16QAM	25	37	22.20	22.22	22.28	22.17	22.20			
10	16QAM	50	0	22.02	22.12	22.19	22.19	22.07		22.7	1.5
10	16QAM	50	25	22.03	22.10	22.19	22.07	22.06			
10	16QAM	1	0	20.10	20.12	20.20	20.10	20.12			
10	16QAM	1	49	20.07	20.11	20.09	20.00	20.10			
10	16QAM	25	12	19.95	20.03	20.13	20.03	20.08		20.7	3.5
10	16QAM	25	37	19.95	20.05	20.04	19.96	20.01			
10	16QAM	25	50	20.01	19.98	20.10	20.06	20.02			
10	16QAM	25	100	20.07	20.04	20.15	20.04	20.08			
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.60	23.68	23.79	23.71	23.75		24	0
5	QPSK	1	12	23.66	23.60	23.73	23.67	23.63			
5	QPSK	1	24	23.55	23.61	23.72	23.67	23.56			
5	QPSK	12	0	23.71	23.79	23.84	23.74	23.73			
5	QPSK	12	7	23.66	23.61	23.78	23.72	23.54		24.2	0
5	QPSK	12	14	23.68	23.66	23.82	23.76	23.63			
5	QPSK	25	0	23.69	23.74	23.80	23.83	23.65			
5	16QAM	1	0	23.63	23.68	23.81	23.82	23.73			
5	16QAM	1	50	23.67	23.70	23.82	23.77	23.81		24.2	0
5	16QAM	1	24	23.58	23.56	23.68	23.57	23.51			
5	16QAM	12	0	23.39	23.24	23.44	23.34	23.27			
5	16QAM	12	9	23.12	23.09	23.23	23.04	23.03			
5	16QAM	12	13	23.18	23.14	23.16	23.18	23.05		23.7	0.5
5	16QAM	1	0	22.82	22.89	22.87	22.81	22.83			
5	16QAM	1	12	22.83	22.73	22.85	22.80	22.79			
5	16QAM	1	24	22.71	22.79	22.82	22.76	22.79			
5	16QAM	12	0	22.24	22.17	22.33	22.20	22.29		22.7	1.5
5	16QAM	12	9	22.15	22.04	22.25	22.09	22.13			
5	16QAM	12	13	22.16	22.08	22.22	22.12	22.23			
5	16QAM	25	0	22.07	22.16	22.18	22.14	22.10			
5	16QAM	1	0	20.08	20.09	20.12	20.08	20.10		20.7	3.5
5	16QAM	1	24	20.18	20.11	20.22	20.04	20.14			
5	16QAM	1	12	20.13	20.09	20.16	20.10	20.07			
5	16QAM	1	25	20.08	20.15	20.18	20.08	20.08			
5	16QAM	12	7	19.90	19.88	20.04	19.90	19.99		20.7	3.5
5	16QAM	12	13	20.11	20.02	20.15	20.06	20.05			
5	16QAM	12	25	20.08	20.05	20.12	20.05	20.08			
5	16QAM	12	50	20.07	20.04	20.15	20.07	20.08			



Band 42 FCC Part27Q Main PA Ant5 DSI1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	21.94	22.02	21.97	22.5	0				
20	QPSK	1	49	21.84	21.99	21.78						
20	QPSK	1	99	21.71	21.84	21.83						
20	QPSK	50	0	21.96	22.10	21.93						
20	QPSK	50	24	21.83	21.87	21.84	22.5	0				
20	QPSK	50	99	21.78	21.87	21.80						
20	QPSK	100	0	21.98	22.02	21.96						
20	16QAM	1	0	21.82	21.88	21.79						
20	16QAM	1	49	21.74	21.80	21.81	22.5	0				
20	16QAM	1	99	21.98	22.11	22.01						
20	16QAM	50	0	21.89	21.97	21.79						
20	16QAM	50	24	21.89	21.91	21.89						
20	16QAM	50	50	22.02	22.02	21.98	22.5	0				
20	16QAM	100	0	21.92	21.99	21.82						
20	16QAM	100	0	21.77	21.91	21.81						
20	16QAM	1	49	21.95	21.99	21.88						
20	16QAM	1	99	21.95	21.92	21.98	22.5	0				
20	16QAM	50	0	21.73	21.93	21.78						
20	16QAM	50	24	22.04	22.05	21.99						
20	16QAM	50	50	21.85	21.90	21.81						
20	16QAM	100	0	21.74	21.84	21.85	22.5	0				
20	256QAM	1	0	19.76	19.84	19.70						
20	256QAM	1	49	19.87	19.87	19.87						
20	256QAM	1	99	19.84	19.79	19.73						
20	256QAM	50	0	19.88	19.82	19.86	20.5	2				
20	256QAM	50	24	19.97	19.93	19.91						
20	256QAM	50	50	19.84	19.75	19.68						
20	256QAM	100	0	19.95	19.84	19.87						
Channel												
Frequency (MHz)												
15	QPSK	1	0	21.93	22.02	22.03	22.5	0				
15	QPSK	1	47	21.81	21.97	21.83						
15	QPSK	1	74	21.75	21.94	21.78						
15	QPSK	36	0	21.98	22.10	21.91						
15	QPSK	36	20	21.89	21.94	21.79	22.5	0				
15	QPSK	36	36	21.88	21.97	21.86						
15	QPSK	75	0	21.98	22.05	22.01						
15	16QAM	1	0	21.90	21.99	21.89						
15	16QAM	1	74	21.71	21.86	21.78	22.5	0				
15	16QAM	1	74	21.97	22.00	21.96						
15	16QAM	36	0	21.86	22.00	21.88						
15	16QAM	36	20	21.75	21.84	21.83						
15	16QAM	36	36	22.00	22.09	21.93	22.5	0				
15	16QAM	75	0	21.91	22.00	21.80						
15	16QAM	1	0	21.72	21.90	21.79						
15	16QAM	1	27	22.01	22.11	21.94						
15	16QAM	1	74	21.86	21.91	21.79	22.5	0				
15	16QAM	36	0	21.79	21.85	21.83						
15	16QAM	36	20	21.87	21.88	21.58						
15	16QAM	36	36	21.82	21.84	21.54						
15	16QAM	75	0	21.92	21.92	21.91	20.5	2				
15	256QAM	1	0	19.86	19.79	19.88						
15	256QAM	1	47	19.80	19.73	19.83						
15	256QAM	1	74	19.83	19.80	19.82						
15	256QAM	36	0	19.85	19.72	19.89	20.5	2				
15	256QAM	36	20	19.49	19.82	19.84						
15	256QAM	36	36	19.98	19.81	19.98						
15	256QAM	75	0	19.83	19.83	19.81						
Channel												
Frequency (MHz)												
10	QPSK	1	0	21.94	22.02	22.07	22.5	0				
10	QPSK	1	25	21.82	21.98	21.87						
10	QPSK	1	49	21.71	21.83	21.88						
10	QPSK	25	0	21.98	22.10	21.94						
10	QPSK	25	12	21.81	21.90	21.85	22.5	0				
10	QPSK	25	25	21.76	21.91	21.79						
10	QPSK	50	0	22.01	22.10	21.94						
10	16QAM	1	0	21.92	21.98	21.87						
10	16QAM	1	25	21.80	21.89	21.80	22.5	0				
10	16QAM	1	49	22.02	22.08	21.93						
10	16QAM	25	0	21.82	22.00	21.86						
10	16QAM	25	12	21.74	21.86	21.80						
10	16QAM	25	25	22.03	22.07	21.92	22.5	0				
10	16QAM	50	0	21.88	21.82	21.89						
10	16QAM	50	25	21.78	21.85	21.83						
10	16QAM	1	25	22.03	22.09	21.95						
10	16QAM	1	49	21.88	21.89	21.86	22.5	0				
10	16QAM	25	0	21.78	21.85	21.83						
10	16QAM	25	12	21.88	21.99	21.90						
10	16QAM	25	25	21.60	21.65	21.53						
10	256QAM	1	0	19.72	19.80	19.56	20.5	2				
10	256QAM	1	25	19.88	19.73	19.84						
10	256QAM	1	49	19.81	19.70	19.87						
10	256QAM	25	0	19.89	19.78	19.69						
10	256QAM	25	12	19.47	19.82	19.47	20.5	2				
10	256QAM	25	25	19.55	19.82	19.57						
10	256QAM	50	0	19.49	19.82	19.47						
10	256QAM	50	0	19.49	19.82	19.47						
Channel												
Frequency (MHz)												
5	QPSK	1	0	21.95	22.05	22.04	22.5	0				
5	QPSK	1	12	21.88	21.90	21.87						
5	QPSK	1	24	21.71	21.87	21.87						
5	QPSK	12	0	22.06	22.06	21.89						
5	QPSK	12	7	21.83	21.91	21.81	22.5	0				
5	QPSK	12	13	21.74	21.84	21.78						
5	QPSK	25	0	22.05	22.05	21.86						
5	16QAM	1	0	21.86	21.98	21.80						
5	16QAM	1	12	21.69	21.83	21.79	22.5	0				
5	16QAM	1	24	21.69	22.01	21.94						
5	16QAM	12	0	21.80	21.89	21.87						
5	16QAM	12	7	21.81	21.86	21.80						
5	16QAM	12	13	22.04	22.04	21.93	22.5	0				
5	16QAM	25	0	21.83	21.89	21.88						
5	16QAM	1	0	21.70	21.86	21.79						
5	16QAM	1	12	21.69	22.00	21.98						
5	16QAM	1	24	21.89	21.92	21.88	22.5	0				
5	16QAM	12	0	21.73	21.87	21.84						
5	16QAM	12	7	21.86	21.81	21.88						
5	16QAM	12	13	21.67	21.64	21.60						
5	16QAM	25	0	21.73	21.68	21.68	20.5	2				
5	256QAM	1	0	19.84	19.78	19.58						
5	256QAM	1	12	19.66	19.71	19.62						
5	256QAM	1	24	19.80	19.71	19.68						
5	256QAM	12	0	19.98	19.78	19.59	20.5	2				
5	256QAM	12	7	19.49	19.48	19.47						
5	256QAM	12	13	19.59	19.69	19.58						
5	256QAM	25	0	19.49	19.50	19.45						

Band 48 Main PA Ant5 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.58	21.58	21.49	21.53	22	0
20	QPSK	1	49	21.54	21.48	21.43	21.47		
20	QPSK	1	99	21.59	21.45	21.47	21.58		
20	QPSK	50	0	21.60	21.62	21.58	21.52		
20	QPSK	50	24	21.52	21.49	21.41	21.51	22	0
20	QPSK	50	99	21.50	21.45	21.47	21.58	22	0
20	QPSK	100	0	21.55	21.55	21.54	21.54	22	0
20	QPSK	1	0	21.47	21.53	21.39	21.49		
20	QPSK	1	49	21.58	21.42	21.37	21.47		
20	QPSK	1	99	21.59	21.52	21.56	21.45		
20	QPSK	1	99	21.59	21.62	21.56	21.45	22	0
20	QPSK	50	0	21.61	21.61	21.58	21.54		
20	QPSK	50	24	21.52	21.49	21.41	21.51		
20	QPSK	50	99	21.56	21.56	21.55	21.45		
20	QPSK	100	0	21.54	21.56	21.42	21.46	22	0
20	QPSK	1	0	21.54	21.54	21.43	21.43		
20	QPSK	1	49	21.54	21.56	21.58	21.46		
20	QPSK	1	99	21.45	21.45	21.58	21.53		
20	QPSK	50	0	21.37	21.52	21.36	21.41	20.5	1.5
20	QPSK	1	0	21.92	19.95	19.84	19.91		
20	QPSK	1	49	19.73	19.86	19.86	19.77		
20	QPSK	1	99	19.72	19.95	19.88	19.85		
20	QPSK	50	0	19.78	19.95	19.95	19.86	20.5	1.5
20	QPSK	50	24	19.70	19.75	19.72	19.67		
20	QPSK	50	99	19.76	19.85	19.75	19.66		
20	QPSK	100	0	19.83	19.82	19.83	19.65		
Channel									
Frequency (MHz)									
15	QPSK	1	0	21.52	21.60	21.54	21.54	22	0
15	QPSK	1	47	21.49	21.56	21.38	21.41		
15	QPSK	1	94	21.59	21.44	21.39	21.47		
15	QPSK	50	0	21.58	21.58	21.56	21.58		
15	QPSK	50	20	21.47	21.58	21.37	21.47	22	0
15	QPSK	50	94	21.50	21.58	21.42	21.58		
15	QPSK	75	0	21.60	21.67	21.53	21.54		
15	QPSK	1	0	21.55	21.58	21.58	21.54		
15	QPSK	1	47	21.58	21.43	21.43	21.34	22	0
15	QPSK	1	94	21.58	21.60	21.58	21.44		
15	QPSK	50	0	21.53	21.53	21.38	21.53		
15	QPSK	50	20	21.54	21.54	21.47	21.59		
15	QPSK	50	94	21.62	21.58	21.60	21.45	22	0
15	QPSK	75	0	21.58	21.58	21.58	21.58		
15	QPSK	1	0	21.30	21.50	21.40	21.27		
15	QPSK	1	47	21.53	21.58	21.60	21.45		
15	QPSK	1	94	21.57	21.57	21.58	21.54	22	0
15	QPSK	50	0	21.37	21.52	21.48	21.38		
15	QPSK	50	20	21.60	21.58	21.50	21.48		
15	QPSK	50	94	21.47	21.47	21.44	21.44		
15	QPSK	75	0	21.35	21.50	21.44	21.35	20.5	1.5
15	QPSK	1	0	19.85	19.95	19.85	19.82		
15	QPSK	1	47	19.58	19.85	19.85	19.80		
15	QPSK	1	94	19.57	19.85	19.78	19.76		
15	QPSK	50	0	19.61	19.70	19.52	19.64	20.5	1.5
15	QPSK	50	20	19.61	19.77	19.63	19.59		
15	QPSK	50	94	19.63	19.63	19.63	19.47		
15	QPSK	100	0	19.69	19.69	19.69	19.69		
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.60	21.67	21.68	21.68	22	0
5	QPSK	1	25	21.49	21.54	21.39	21.47		
5	QPSK	1	50	21.53	21.53	21.53	21.53		
5	QPSK	25	0	21.55	21.55	21.51	21.51		
5	QPSK	25	12	21.49	21.55	21.39	21.54	22	0
5	QPSK	25	37	21.58	21.58	21.42	21.38		
5	QPSK	50	0	21.62	21.60	21.49	21.51		
5	QPSK	1	0	21.45	21.55	21.44	21.55		
5	QPSK	1	25	21.59	21.43	21.38	21.49	22	0
5	QPSK	1	50	21.56	21.56	21.59	21.51		
5	QPSK	25	0	21.46	21.49	21.44	21.55		
5	QPSK	25	12	21.53	21.56	21.38	21.29		
5	QPSK	50	0	21.60	21.60	21.54	21.49	22	0
5	QPSK	50	25	21.49	21.52	21.44	21.40		
5	QPSK	100	0	21.52	21.52	21.52	21.52		
5	QPSK	1	0	21.35	21.43	21.42	21.33		
5	QPSK	1	25	21.61	21.58	21.52	21.49	22	0
5	QPSK	1	50	21.52	21.58	21.52	21.49		
5	QPSK	25	0	21.37	21.44	21.46	21.29		
5	QPSK	25	12	21.62	21.63	21.50	21.50		
5	QPSK	50	0	21.52	21.57	21.43	21.44	22	0
5	QPSK	50	25	21.57	21.57	21.44	21.56		
5	QPSK	100	0	21.51	21.51	21.38	21.44		
5	QPSK	1	0	19.89	19.95	19.89	19.86		
5	QPSK	1	25	19.63	19.84	19.81	19.79	20.5	1.5
5	QPSK	1	50	19.63	19.87	19.86	19.86		
5	QPSK	25	0	19.60	19.86	19.89	19.85		
5	QPSK	25	12	19.63	19.86	19.84	19.47		
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.64	21.66	21.66	21.66	22	0
5	QPSK	1	12	21.48	21.50	21.39	21.53		
5	QPSK	1	24	21.53	21.43	21.37	21.57		
5	QPSK	12	0	21.57	21.60	21.50	21.55		
5	QPSK	12	7	21.51	21.52	21.48	21.44	22	0
5	QPSK	12	14	21.50	21.44	21.44	21.30		
5	QPSK	25	0	21.52	21.60	21.54	21.46		
5	QPSK	1	0	21.53	21.52	21.44	21.53		
5	QPSK	1	12	21.57	21.46	21.41	21.38	22	0
5	QPSK	1	24	21.43	21.48	21.42	21.36		
5	QPSK	12	7	21.52	21.52	21.52	21.46		
5	QPSK	12	14	21.49	21.49	21.58	21.52		
5	QPSK	25	0	21.33	21.40	21.41	21.33	22	0
5	QPSK	25	7	21.32	21.50	21.46	21.37		
5	QPSK	25	12	21.63	21.67	21.51	21.50		
5	QPSK	25	19	21.58	21.58	21.46	21.54		
5	QPSK	1	0	21.29	21.63	21.47	21.30	22	0
5	QPSK	1	12	21.61	21.59	21.55	21.47		
5	QPSK	1	24	21.52	21.57	21.47	21.47		
5	QPSK	12	7	21.58	21.48	21.48	21.52		
5	QPSK	12	13	21.28	21.51	21.41	21.37	20.5	1.5
5	QPSK	12	19	21.63	21.68	21.51	21.51		
5	QPSK	25	0	21.33	21.40	21.41	21.33		
5	QPSK	25	7	21.32	21.50	21.46	21.37		
5	QPSK	25	12	19.68	19.74	19.60	19.68	20.5	1.5
5	QPSK	25	19	19.68	19.86	19.83	19.79		
5	QPSK	25	24	19.73	19.74	19.68	19.77		
5	QPSK	25	27	19.60	19.60	19.60	19.65		
5	QPSK	12	13	19.64	19.65	19.65	19.63	20.5	1.5
5	QPSK	12	19	19.65	19.65	19.65	19.61		
5	QPSK	12	24	19.69	19.69	19.69	19.65		
5	QPSK	12	27	19.69	19.69	19.69	19.65		



Band 42 FCC Part27Q Main PA Ant6 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.18	21.18	21.18	22	0	
20	QPSK	1	49	21.13	21.13	21.08			
20	QPSK	1	98	21.07	21.11	21.08	22	0	
20	QPSK	50	0	21.18	21.17	21.13			
20	QPSK	50	24	21.15	21.18	21.05	22	0	
20	QPSK	50	50	21.03	21.13	21.14			
20	QPSK	100	0	21.05	21.21	21.13	22	0	
20	HQAM	1	0	21.14	21.21	21.14			
20	HQAM	1	49	21.03	21.13	21.15	22	0	
20	HQAM	1	99	21.22	21.25	21.14			
20	HQAM	50	0	21.19	21.29	21.08	22	0	
20	HQAM	50	24	21.02	21.32	21.11			
20	HQAM	50	50	21.29	21.29	21.13	22	0	
20	HQAM	100	0	21.10	21.22	21.07			
20	8QAM	1	0	21.02	21.15	21.04	22	0	
20	8QAM	1	49	21.18	21.29	21.19			
20	8QAM	1	99	21.15	21.12	21.06	22	0	
20	8QAM	50	0	21.01	21.10	21.10			
20	8QAM	50	24	21.28	21.27	21.17	22	0	
20	8QAM	50	50	21.15	21.18	21.07			
20	8QAM	100	0	21.02	21.19	21.10	20.5	1.5	
20	25SQAM	1	0	19.34	19.47	19.38			
20	25SQAM	1	49	19.26	19.44	19.40	20.5	1.5	
20	25SQAM	1	99	19.25	19.39	19.31			
20	25SQAM	50	0	19.28	19.31	19.22	20.5	1.5	
20	25SQAM	50	24	19.17	19.31	19.22			
Channel									
Frequency (MHz)									
15	QPSK	1	0	21.03	21.25	21.23	22	0	
15	QPSK	1	47	21.19	21.19	21.07			
15	QPSK	1	74	21.03	21.13	21.10	22	0	
15	QPSK	36	0	21.07	21.30	21.15			
15	QPSK	36	20	21.17	21.21	21.06	22	0	
15	QPSK	36	56	21.08	21.38	21.08			
15	QPSK	75	0	21.21	21.31	21.18	22	0	
15	HQAM	1	0	21.15	21.29	21.13			
15	HQAM	1	47	21.09	21.29	21.04	22	0	
15	HQAM	1	74	21.19	21.32	21.21			
15	HQAM	36	0	21.13	21.22	21.11	22	0	
15	HQAM	36	20	21.05	21.33	21.13			
15	HQAM	36	56	21.18	21.22	21.14	22	0	
15	HQAM	75	0	21.14	21.14	21.07			
15	HQAM	1	0	21.09	21.15	21.04	22	0	
15	HQAM	1	27	21.24	21.34	21.18			
15	HQAM	1	74	21.13	21.24	21.19	22	0	
15	HQAM	36	0	21.01	21.35	21.04			
15	8QAM	36	20	21.25	21.29	21.17	22	0	
15	8QAM	36	56	21.14	21.34	21.06			
15	8QAM	75	0	21.04	21.08	21.11	22	0	
15	25SQAM	1	0	19.25	19.34	19.23			
15	25SQAM	1	47	19.13	19.33	19.32	20.5	1.5	
15	25SQAM	1	74	19.16	19.24	19.18			
15	25SQAM	36	0	19.21	19.38	19.29	20.5	1.5	
15	25SQAM	36	20	19.08	19.27	19.14			
15	25SQAM	36	56	19.27	19.23	19.13	20.5	1.5	
15	25SQAM	75	0	19.18	19.34	19.22			
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.22	21.30	21.14	22	0	
10	QPSK	1	25	21.10	21.19	21.12			
10	QPSK	1	49	21.05	21.10	21.04	22	0	
10	QPSK	25	0	21.27	21.30	21.08			
10	QPSK	25	12	21.13	21.21	21.13	22	0	
10	QPSK	25	25	21.05	21.19	21.09			
10	QPSK	50	0	21.28	21.31	21.21	22	0	
10	HQAM	1	0	21.11	21.21	21.15			
10	HQAM	1	25	21.08	21.11	21.10	22	0	
10	HQAM	1	49	21.07	21.25	21.18			
10	HQAM	25	0	21.12	21.19	21.16	22	0	
10	HQAM	25	12	21.04	21.12	21.07			
10	HQAM	25	25	21.17	21.21	21.20	22	0	
10	HQAM	50	0	21.20	21.20	21.12			
10	HQAM	1	0	21.09	21.17	21.08	22	0	
10	HQAM	25	0	21.28	21.30	21.23			
10	HQAM	25	12	21.24	21.32	21.17	22	0	
10	HQAM	25	25	21.17	21.16	21.14			
10	HQAM	50	0	21.00	21.13	21.04	22	0	
10	25SQAM	1	0	19.26	19.37	19.32			
10	25SQAM	1	25	19.26	19.41	19.39	20.5	1.5	
10	25SQAM	1	49	19.13	19.26	19.23			
10	25SQAM	25	0	19.23	19.38	19.24	20.5	1.5	
10	25SQAM	25	12	19.05	19.26	19.19			
10	25SQAM	25	25	19.27	19.27	19.12	20.5	1.5	
10	25SQAM	50	0	19.11	19.33	19.16			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.19	21.31	21.18	22	0	
5	QPSK	1	12	21.18	21.19	21.16			
5	QPSK	1	24	21.08	21.19	21.13	22	0	
5	QPSK	12	0	21.22	21.32	21.19			
5	QPSK	12	7	21.14	21.25	21.17	22	0	
5	QPSK	12	13	21.03	21.19	21.07			
5	QPSK	25	0	21.29	21.29	21.19	22	0	
5	HQAM	1	0	21.17	21.18	21.07			
5	HQAM	1	12	21.03	21.15	21.14	22	0	
5	HQAM	1	24	21.24	21.21	21.21			
5	HQAM	12	0	21.19	21.13	21.11	22	0	
5	HQAM	12	7	21.01	21.13	21.07			
5	HQAM	12	13	21.25	21.30	21.20	22	0	
5	HQAM	25	0	21.13	21.16	21.10			
5	HQAM	1	0	21.11	21.16	21.07	22	0	
5	HQAM	1	12	21.19	21.25	21.12			
5	HQAM	1	24	21.15	21.23	21.13	22	0	
5	HQAM	12	0	21.01	21.17	21.14			
5	HQAM	12	7	21.27	21.21	21.16	22	0	
5	HQAM	12	13	21.12	21.15	21.16			
5	HQAM	25	0	21.03	21.13	21.13	20.5	1.5	
5	25SQAM	1	0	19.29	19.39	19.36			
5	25SQAM	1	12	19.27	19.37	19.33	20.5	1.5	
5	25SQAM	1	24	19.19	19.33	19.19			
5	25SQAM	12	0	19.28	19.29	19.26	20.5	1.5	
5	25SQAM	12	7	19.04	19.17	19.18			
5	25SQAM	12	13	19.27	19.34	19.16	20.5	1.5	
5	25SQAM	25	0	19.19	19.31	19.14			

Band 48 Main PA Ant6 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.77	21.59	21.77	22.5	0	
20	QPSK	1	49	21.77	21.75	21.65			
20	QPSK	1	99	21.62	21.75	21.70	22.5	0	
20	QPSK	1	149	21.61	21.76	21.78			
20	QPSK	50	24	21.75	21.76	21.65	22.5	0	
20	QPSK	50	74	21.75	21.76	21.65			
20	QPSK	100	0	21.75	21.63	21.70	22.5	0	
20	QPSK	100	50	21.62	21.73	21.75			
20	QPSK	1	0	21.77	21.59	21.77	22.5	0	
20	QPSK	1	99	21.75	21.81	21.75			
20	QPSK	1	149	21.74	21.79	21.84	22.5	0	
20	QPSK	1	199	21.69	21.78	21.82			
20	QPSK	50	50	21.63	21.64	21.73	22.5	0	
20	QPSK	50	100	21.60	21.73	21.75			
20	QPSK	100	0	21.69	21.71	21.75	22.5	0	
20	QPSK	100	50	21.65	21.84	21.80			
20	QPSK	1	0	21.77	21.59	21.77	22.5	0	
20	QPSK	1	49	21.65	21.64	21.65			
20	QPSK	1	99	21.65	21.65	21.64	22.5	0	
20	QPSK	1	149	21.66	21.66	21.74			
20	QPSK	50	24	21.61	21.66	21.74	22.5	0	
20	QPSK	50	74	21.75	21.80	21.72			
20	QPSK	100	0	21.72	21.79	21.84	22.5	0	
20	QPSK	100	50	21.68	21.86	21.94			
20	QPSK	1	0	21.72	21.86	21.94	20.5	2	
20	QPSK	1	99	21.38	21.44	21.49			
20	QPSK	1	149	21.38	21.44	21.49	20.5	2	
20	QPSK	1	199	21.38	21.44	21.49			
20	QPSK	50	24	19.20	19.37	19.38	20.5	2	
20	QPSK	50	74	19.48	19.46	19.31			
20	QPSK	100	0	19.48	19.46	19.31	20.5	2	
20	QPSK	100	50	19.48	19.46	19.31			
Channel									
Frequency (MHz)									
15	QPSK	1	0	21.84	21.83	21.78	21.74	22.5	0
15	QPSK	1	47	21.76	21.80	21.74	21.57		
15	QPSK	1	94	21.70	21.78	21.67	21.69	22.5	0
15	QPSK	1	141	21.75	21.84	21.82	21.78		
15	QPSK	25	20	21.79	21.73	21.67	21.65	22.5	0
15	QPSK	25	70	21.78	21.73	21.67	21.69		
15	QPSK	75	0	21.84	21.85	21.76	21.79	22.5	0
15	QPSK	75	50	21.76	21.81	21.83	21.52		
15	QPSK	1	0	21.72	21.73	21.68	21.58	22.5	0
15	QPSK	1	47	21.71	21.72	21.74	21.67		
15	QPSK	1	94	21.74	21.79	21.84	21.83	22.5	0
15	QPSK	1	141	21.81	21.84	21.83	21.72		
15	QPSK	25	20	21.78	21.79	21.78	21.69	22.5	0
15	QPSK	25	70	21.75	21.70	21.66	21.60		
15	QPSK	1	0	21.65	21.70	21.66	21.64	22.5	0
15	QPSK	1	47	21.84	21.87	21.75	21.73		
15	QPSK	1	94	21.78	21.79	21.78	21.64	22.5	0
15	QPSK	1	141	21.78	21.79	21.80	21.64		
15	QPSK	25	20	21.65	21.70	21.69	21.63	22.5	0
15	QPSK	25	70	21.68	21.69	21.74	21.71		
15	QPSK	75	0	21.68	21.69	21.74	21.69	22.5	0
15	QPSK	75	50	21.68	21.69	21.74	21.69		
15	QPSK	1	0	21.65	21.69	21.70	21.64	22.5	0
15	QPSK	1	47	21.84	21.87	21.75	21.73		
15	QPSK	1	94	21.78	21.79	21.78	21.64	22.5	0
15	QPSK	1	141	21.78	21.79	21.80	21.64		
15	QPSK	25	20	21.65	21.70	21.69	21.63	22.5	0
15	QPSK	25	70	21.68	21.69	21.74	21.71		
15	QPSK	75	0	21.68	21.69	21.74	21.69	22.5	0
15	QPSK	75	50	21.68	21.69	21.74	21.69		
15	QPSK	1	0	21.65	21.70	21.66	21.64	22.5	0
15	QPSK	1	47	21.84	21.87	21.75	21.73		
15	QPSK	1	94	21.78	21.79	21.78	21.64	22.5	0
15	QPSK	1	141	21.78	21.79	21.80	21.64		
15	QPSK	25	20	21.65	21.70	21.69	21.63	22.5	0
15	QPSK	25	70	21.68	21.69	21.74	21.71		
15	QPSK	75	0	21.68	21.69	21.74	21.69	22.5	0
15	QPSK	75	50	21.68	21.69	21.74	21.69		
15	QPSK	1	0	21.65	21.70	21.66	21.64	22.5	0
15	QPSK	1	47	21.84	21.87	21.75	21.73		
15	QPSK	1	94	21.78	21.79	21.78	21.64	22.5	0
15	QPSK	1	141	21.78	21.79	21.80	21.64		
15	QPSK	25	20	21.65	21.70	21.69	21.63	22.5	0
15	QPSK	25	70	21.68	21.69	21.74	21.71		
15	QPSK	75	0	21.68	21.69	21.74	21.69	22.5	0
15	QPSK	75	50	21.68	21.69	21.74	21.69		
15	QPSK	1	0	21.65	21.70	21.66	21.64	22.5	0
15	QPSK	1	47	21.84	21.87	21.75	21.73		
15	QPSK	1	94	21.78	21.79	21.78	21.64	22.5	0
15	QPSK	1	141	21.78	21.79	21.80	21.64		
15	QPSK	25	20	21.65	21.70	21.69	21.63	22.5	0
15	QPSK	25	70	21.68	21.69	21.74	21.71		
15	QPSK	75	0	21.68	21.69	21.74	21.69	22.5	0
15	QPSK	75	50	21.68	21.69	21.74	21.69		
15	QPSK	1	0	21.65	21.70	21.66	21.64	22.5	0
15	QPSK	1	47	21.84	21.87	21.75	21.73		
15	QPSK	1	94	21.78	21.79	21.78	21.64	22.5	0
15	QPSK	1	141	21.78	21.79	21.80	21.64		
15	QPSK	25	20	21.65	21.70	21.69	21.63	22.5	0
15	QPSK	25	70	21.68	21.69	21.74	21.71		
15	QPSK	75	0	21.68	21.69	21.74	21.69	22.5	0
15	QPSK	75	50	21.68	21.69	21.74	21.69		
15	QPSK	1	0	21.65	21.70	21.66	21.64	22.5	0
15	QPSK	1	47	21.84	21.87	21.75	21.73		
15	QPSK	1	94	21.78	21.79	21.78	21.64	22.5	0
15	QPSK	1	141	21.78	21.79	21.80	21.64		
15	QPSK	25	20	21.65	21.70	21.69	21.63	22.5	0
15	QPSK	25	70	21.68	21.69	21.74	21.71		
15	QPSK	75	0	21.68	21.69	21.74	21.69	22.5	0
15	QPSK	75	50	21.68	21.69	21.74	21.69		
15	QPSK	1	0	21.65	21.70	21.66	21.64	22.5	0
15	QPSK	1	47	21.84	21.87	21.75	21.73		
15	QPSK	1	94	21.78	21.79	21.78	21.64	22.5	0
15	QPSK	1	141	21.78	21.79	21.80	21.64		
15	QPSK	25	20	21.65	21.70	21.69	21.63	22.5	0
15	QPSK	25	70	21.68	21.69	21.74	21.71		
15	QPSK	75	0	21.68	21.69	21.74	21.69	22.5	0
15	QPSK	75	50	21.68	21.69	21.74	21.69		
15	QPSK	1	0	21.65	21.70	21.66	21.64	22.5	0
15	QPSK	1	47	21.84	21.87	21.75	21.73		
15	QPSK	1	94	21.78	21.79	21.78	21.64	22.5	0
15	QPSK	1	141	21.78	21.79	21.80	21.64		
15	QPSK	25	20	21.65	21.70	21.69	21.63	22.5	0
15	QPSK	25	70	21.68	21.69	21.74	21.71		
15	QPSK	75	0	21.68	21.69	21.74	21.69	22.5	0
15	QPSK	75	50	21.68	21.69	21.74	21.69		
15	QPSK	1	0	21.65	21.70	21.66	21.64	22.5	0
15	QPSK	1	47	21.84	21.87	21.75	21.73		
15	QPSK	1	94	21.78	21.79	21.78	21.64	22.5	0
15	QPSK	1	141	21.78	21.79	21.80	21.64		
15	QPSK	25	20	21.65	21.70	21.69	21.63	22.5	0
15	QPSK	25	70	21.68	21.69	21.74	21.71		
15	QPSK	75	0	21.68	21.69	21.74	21.69	22.5	0
15	QPSK	75	50	21.68	21.69	21.74	21.69		
15	QPSK	1	0	21.65	21.70	21.66	21.64	22.5	0
15	QPSK	1	47	21.84	21.87	21.75	21.73		
15	QPSK	1	94	21.78	21.79	21.78	21.64	22.5	0
15	QPSK	1	141	21.78	21.79	21.80	21.64		
15	QPSK	25	20	21.65	21.70	21.69	21.63	22.5	0
15	QPSK	25	70	21.68	21.69	21.74	21.71		
15	QPSK	75	0	21.68	21.69	21.74	21.69	22.5	0
15	QPSK	75	50	21.68	21.69	21.74	21.69		
15	QPSK	1	0	21.65	21.70	21.66	21.64	22.5	0
15	QPSK	1	47	21.84	21.87	21.75	21.73		
15	QPSK	1	94	21.78	21.79	21.78	21.64	22.5	0
15	QPSK	1	141	21.78	21.79	21.80	21.64		
15	QPSK	25	20	21.65	21.70	21.69	21.63	22.5	0
15	QPSK	25	70	21.68	21.69	21.74	21.71		
15	QPSK	75	0	21.68	21.69	21.74	21.69	22.5	0
15	QPSK	75	50	21.68	21.69	21.74	21.69		
15	QPSK	1	0	21.65	21.70	21.66	21.64	22.5	0
15	QPSK	1	47	21.84	21.87	21.75	21.73		
15	QPSK	1	94	21.78	21.79	21.78	21.64	22.5	0
15	QPSK	1	141	21.78	21.79	21.80	21.64		
15	QPSK	25	20	21.65	21.70	21.69	21.63	22.5	0
15	QPSK	25	70	21.68	21.69	21.74	21.71		
15	QPSK	75	0	21.68	21.69	21.74	21.69	22.5	0
15	QPSK	75	50	21.68					



Band 42 FCC Part27Q Mian PA Ant7 DSI1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Max-Min Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel				42190	42590	42990				
Frequency (MHz)				3427.5	3500	3542.5				
20	QPSK	1	0	20.06	20.13	20.03	21	0		
20	QPSK	1	40	19.82	19.84	19.84				
20	QPSK	1	80	19.90	19.89	19.89				
20	QPSK	50	0	19.97	20.17	19.98				
20	QPSK	50	24	19.86	19.93	19.88	21	0		
20	QPSK	50	50	19.83	19.88	19.85				
20	QPSK	100	0	20.00	20.07	20.00				
20	HQAM	1	0	19.77	19.91	19.85				
20	HQAM	1	40	19.90	19.90	19.91	21	0		
20	HQAM	1	80	20.04	20.05	20.01				
20	HQAM	50	0	19.84	19.90	19.86				
20	HQAM	50	24	20.05	20.02	19.94				
20	HQAM	100	0	19.79	19.90	19.85	21	0		
20	84QAM	1	0	19.85	19.94	19.89				
20	84QAM	1	40	19.88	20.06	19.88				
20	84QAM	1	80	19.92	19.94	19.90				
20	84QAM	50	0	19.87	19.92	19.89	21	0		
20	84QAM	50	24	20.08	20.09	19.98				
20	84QAM	50	50	19.92	19.90	19.87				
20	84QAM	100	0	19.91	19.92	19.91				
20	256QAM	1	0	18.24	18.36	18.30	19.5	1.5		
20	256QAM	1	40	18.27	18.30	18.17				
20	256QAM	1	80	18.24	18.30	18.25				
20	256QAM	50	0	18.25	18.25	18.26				
20	256QAM	50	24	18.09	18.22	18.10	19.5	1.5		
20	256QAM	50	50	18.06	18.10	18.10				
20	256QAM	100	0	18.06	18.10	18.10				
Channel				42196	42596	43016				
Frequency (MHz)				3427.5	3500	3542.5				
15	QPSK	1	0	20.03	20.02	20.03	21	0		
15	QPSK	1	47	19.79	19.89	19.87				
15	QPSK	1	74	19.82	19.91	19.90				
15	QPSK	36	0	20.06	20.00	19.97				
15	QPSK	36	20	19.76	19.90	19.84	21	0		
15	QPSK	36	36	19.88	19.90	19.87				
15	QPSK	75	0	20.06	20.07	20.03				
15	HQAM	1	0	19.78	19.93	19.86				
15	HQAM	1	37	19.84	19.90	19.87	21	0		
15	HQAM	1	74	20.02	20.05	19.99				
15	HQAM	36	0	19.81	19.96	19.89				
15	HQAM	36	36	19.87	19.91	19.84				
15	HQAM	36	39	20.06	20.06	19.94	21	0		
15	HQAM	75	0	19.84	19.96	19.90				
15	HQAM	1	0	19.86	19.90	19.88				
15	HQAM	1	27	20.05	20.04	20.02				
15	84QAM	1	74	19.98	19.99	19.97	21	0		
15	84QAM	36	0	19.87	19.98	19.90				
15	84QAM	36	20	19.99	20.00	19.95				
15	84QAM	36	36	19.86	19.90	19.85				
15	84QAM	75	0	19.83	19.92	19.84	19.5	1.5		
15	256QAM	1	0	18.17	18.28	18.23				
15	256QAM	1	37	18.17	18.13	18.05				
15	256QAM	1	74	18.13	18.16	18.17				
15	256QAM	36	0	18.20	18.27	18.18				
15	256QAM	36	30	17.95	18.10	18.00	19.5	1.5		
15	256QAM	36	39	17.98	18.13	18.07				
15	256QAM	75	0	18.16	18.16	18.08				
Channel				42196	42596	43040				
Frequency (MHz)				3425.5	3500	3545				
10	QPSK	1	0	19.89	20.00	19.94	21	0		
10	QPSK	1	26	19.80	20.00	19.82				
10	QPSK	1	49	19.84	19.88	19.87				
10	QPSK	25	0	20.03	19.90	19.93				
10	QPSK	25	12	19.87	19.90	19.84	21	0		
10	QPSK	25	26	19.82	19.94	19.87				
10	QPSK	50	0	20.04	20.04	20.00				
10	HQAM	1	0	19.86	19.98	19.83				
10	HQAM	1	26	19.81	19.86	19.84	21	0		
10	HQAM	1	49	19.88	19.90	19.91				
10	HQAM	25	0	19.82	19.92	19.84				
10	HQAM	25	12	19.86	19.90	19.91				
10	HQAM	25	26	20.02	20.05	19.95	21	0		
10	HQAM	50	0	19.79	19.87	19.81				
10	HQAM	1	0	19.89	19.88	19.90				
10	84QAM	1	26	20.02	20.03	19.99				
10	84QAM	1	49	19.87	19.99	19.93	21	0		
10	84QAM	25	0	19.90	19.91	19.90				
10	84QAM	25	12	20.06	20.07	20.00				
10	84QAM	25	26	19.86	19.94	19.89				
10	84QAM	50	0	19.82	19.92	19.86	19.5	1.5		
10	256QAM	1	0	18.16	18.30	18.20				
10	256QAM	1	25	18.21	18.19	18.09				
10	256QAM	1	49	18.10	18.19	18.13				
10	256QAM	25	0	18.16	18.18	18.18				
10	256QAM	25	12	18.04	18.15	18.07	19.5	1.5		
10	256QAM	25	26	18.07	18.16	18.09				
10	256QAM	50	0	17.97	18.16	18.09				
Channel				42196	42596	43066				
Frequency (MHz)				3425.5	3500	3547.5				
5	QPSK	1	0	20.00	20.05	19.94	21	0		
5	QPSK	1	12	19.77	19.90	19.82				
5	QPSK	1	24	19.89	19.90	19.85				
5	QPSK	12	0	19.86	20.00	20.03				
5	QPSK	12	7	19.85	19.97	19.90	21	0		
5	QPSK	12	13	19.84	19.90	19.86				
5	QPSK	26	0	20.03	20.04	20.04				
5	HQAM	1	0	19.85	19.96	19.87				
5	HQAM	1	12	19.85	19.95	19.82	21	0		
5	HQAM	1	24	19.99	20.00	20.00				
5	HQAM	12	0	19.87	19.98	19.90				
5	HQAM	12	7	19.81	19.97	19.87				
5	HQAM	12	13	20.00	20.02	20.02	21	0		
5	HQAM	26	0	19.81	19.95	19.91				
5	84QAM	1	0	19.90	19.96	19.91				
5	84QAM	1	12	20.03	20.00	19.92				
5	84QAM	1	24	19.81	19.90	19.89	21	0		
5	84QAM	12	0	19.93	19.90	19.94				
5	84QAM	12	7	19.98	20.10	19.96				
5	84QAM	12	13	19.84	19.94	19.91				
5	84QAM	26	0	19.88	19.93	19.91	19.5	1.5		
5	256QAM	1	0	18.10	18.32	18.23				
5	256QAM	1	12	18.16	18.18	18.10				
5	256QAM	12	7	18.01	18.10	18.00	19.5	1.5		
5	256QAM	12	13	17.93	18.11	17.99				
5	256QAM	12	26	18.08	18.14	18.09				
5	256QAM	26	0	18.01	18.10	18.00				

DSI 3 Power for WWAN Main PA

		GSM850 Ant0 Default							
GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		128	180	251		128	180	251	
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot		32.93	33.09	33.05	34.00	23.93	24.09	24.05	25.00
GPRS 1 Tx slot		32.97	33.13	33.07	34.00	23.97	24.13	24.07	25.00
GPRS 2 Tx slots		30.09	30.12	30.04	31.00	24.09	24.12	24.04	25.00
GPRS 3 Tx slots		28.23	28.34	28.19	29.20	23.97	24.08	23.93	24.94
GPRS 4 Tx slots		26.91	26.95	26.88	28.00	23.91	23.95	23.88	25.00
EDGE 1 Tx slot		27.01	27.13	27.08	28.00	18.01	18.13	18.08	19.00
EDGE 2 Tx slots		24.17	24.25	24.10	25.00	18.17	18.25	18.10	19.00
EDGE 3 Tx slots		22.31	22.41	22.28	23.20	18.05	18.15	18.02	18.94
EDGE 4 Tx slots		21.12	21.17	21.04	22.00	18.12	18.17	18.04	19.00

WCDMA V Ant0 Default				
Band		WCDMA V		
TX Channel		4132	4182	4233
Rx Channel		4357	4407	4458
Frequency (MHz)		826.4	836.4	846.6
3GPP Rel 99	AMR 12.2Kbps	23.98	24.11	24.08
3GPP Rel 99	RMC 12.2Kbps	24.04	24.16	24.13
3GPP Rel 6	HSDPA Subtest-1	23.15	23.15	23.11
3GPP Rel 6	HSDPA Subtest-2	23.09	23.15	23.07
3GPP Rel 6	HSDPA Subtest-3	22.54	22.60	22.61
3GPP Rel 6	HSDPA Subtest-4	22.56	22.63	22.57
3GPP Rel 8	DC-HSDPA Subtest-1	23.03	23.14	23.10
3GPP Rel 8	DC-HSDPA Subtest-2	23.04	23.14	23.06
3GPP Rel 8	DC-HSDPA Subtest-3	22.45	22.60	22.53
3GPP Rel 8	DC-HSDPA Subtest-4	22.43	22.56	22.50
3GPP Rel 6	HSUPA Subtest-1	22.98	23.03	23.05
3GPP Rel 6	HSUPA Subtest-2	21.08	21.21	21.06
3GPP Rel 6	HSUPA Subtest-3	22.09	22.26	22.21
3GPP Rel 6	HSUPA Subtest-4	21.06	21.11	21.03
3GPP Rel 6	HSUPA Subtest-5	23.02	23.11	23.05
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.57	20.76	20.64



Band 5 Main PA Ant0													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Turn-up Int. (dB)	APPR (dB)					
Channel													
Frequency (MHz)				829	836.5	844							
10	QPSK	1	0	24.45	24.56	24.55	25.5	0					
10	QPSK	1	25	24.40	24.48	24.43							
10	QPSK	1	49	24.35	24.52	24.34							
10	QPSK	25	0	23.48	23.55	23.54	24.5	1					
10	QPSK	25	12	23.43	23.47	23.50							
10	QPSK	25	25	23.34	23.50	23.49							
10	QPSK	50	0	23.43	23.54	23.47	24.5	1					
10	16QAM	1	0	23.79	23.84	23.79							
10	16QAM	1	25	23.72	23.71	23.68							
10	16QAM	1	49	23.68	23.73	23.69	23.5	2					
10	16QAM	25	0	22.39	22.52	22.41							
10	16QAM	25	12	22.37	22.48	22.34							
10	16QAM	25	25	22.36	22.44	22.34	22.5	3					
10	16QAM	50	0	22.30	22.48	22.31							
10	84QAM	1	0	22.59	22.68	22.58							
10	84QAM	1	25	22.49	22.59	22.54	23.5	2					
10	84QAM	1	49	22.51	22.57	22.44							
10	84QAM	25	0	21.38	21.46	21.39							
10	84QAM	25	12	21.52	21.48	21.38	22.5	3					
10	84QAM	25	25	21.28	21.37	21.38							
10	84QAM	50	0	21.23	21.51	21.28							
10	256QAM	1	0	19.41	19.58	19.51	20.5	5					
10	256QAM	1	25	19.38	19.95	19.43							
10	256QAM	1	49	19.38	19.56	19.44							
10	256QAM	25	0	19.33	19.45	19.35	20.5	5					
10	256QAM	25	12	19.24	19.49	19.24							
10	256QAM	25	25	19.34	19.40	19.34							
10	256QAM	50	0	19.43	19.49	19.41							
Channel													
Frequency (MHz)				828.5	836.5	846.5	Turn-up Int. (dB)	APPR (dB)					
5	QPSK	1	0	24.32	24.32	24.41	25.5	0					
5	QPSK	1	12	24.31	24.43	24.40							
5	QPSK	1	24	24.29	24.40	24.22							
5	QPSK	12	0	23.36	23.53	23.45	24.5	1					
5	QPSK	12	7	23.39	23.36	23.38							
5	QPSK	12	13	23.20	23.37	23.28							
5	QPSK	25	0	23.36	23.49	23.38	24.5	1					
5	16QAM	1	0	23.76	23.79	23.72							
5	16QAM	1	12	23.69	23.60	23.54							
5	16QAM	1	24	23.58	23.51	23.28	23.5	2					
5	16QAM	12	0	22.29	22.44	22.32							
5	16QAM	12	7	22.27	22.39	22.27							
5	16QAM	25	0	22.27	22.38	22.20	22.5	3					
5	84QAM	1	0	22.48	22.81	22.53							
5	84QAM	1	12	22.46	22.51	22.42							
5	84QAM	1	24	22.44	22.82	22.35	22.5	3					
5	84QAM	12	0	21.33	21.34	21.53							
5	84QAM	12	7	21.36	21.41	21.28							
5	84QAM	12	13	21.19	21.25	21.25	20.5	5					
5	84QAM	25	0	21.14	21.48	21.14							
5	256QAM	1	0	19.35	19.51	19.28							
5	256QAM	1	12	19.34	19.57	19.31	20.5	5					
5	256QAM	1	24	19.33	19.51	19.36							
5	256QAM	12	0	19.28	19.36	19.27							
5	256QAM	12	7	19.20	19.34	19.19	20.5	5					
5	256QAM	12	13	19.31	19.29	19.27							
5	256QAM	25	0	19.33	19.43	19.29							
Channel													
Frequency (MHz)				2641.5	2652.5	2668.5	Turn-up Int. (dB)	APPR (dB)					
3	QPSK	1	0	24.34	24.42	24.43	25.5	0					
3	QPSK	1	8	24.35	24.43	24.29							
3	QPSK	1	14	24.22	24.45	24.29							
3	QPSK	8	0	23.37	23.51	23.41	24.5	1					
3	QPSK	8	4	23.35	23.38	23.41							
3	QPSK	8	7	23.26	23.47	23.26							
3	16QAM	1	0	23.36	23.44	23.35	24.5	1					
3	16QAM	1	8	23.70	23.71	23.68							
3	16QAM	1	14	23.42	23.58	23.68							
3	16QAM	8	0	22.26	22.42	22.37	23.5	2					
3	16QAM	8	4	22.32	22.42	22.20							
3	16QAM	8	7	22.32	22.38	22.34							
3	16QAM	15	0	22.17	22.34	22.17	23.5	2					
3	84QAM	1	0	22.68	22.83	22.63							
3	84QAM	1	8	22.44	22.54	22.40							
3	84QAM	1	14	22.44	22.56	22.40	22.5	3					
3	84QAM	8	0	21.25	21.41	21.36							
3	84QAM	8	4	21.34	21.35	21.15							
3	84QAM	8	7	21.17	21.27	21.27	20.5	5					
3	84QAM	15	0	21.08	21.38	21.17							
3	256QAM	1	0	19.35	19.47	19.38							
3	256QAM	1	8	19.27	19.54	19.23	20.5	5					
3	256QAM	1	14	19.34	19.43	19.33							
3	256QAM	8	0	19.27	19.32	19.22							
3	256QAM	8	4	19.12	19.39	19.18	20.5	5					
3	256QAM	8	7	19.30	19.36	19.30							
3	256QAM	15	0	19.35	19.40	19.35							
Channel													
Frequency (MHz)				2640.7	2652.5	2668.5	Turn-up Int. (dB)	APPR (dB)					
1.4	QPSK	1	0	24.34	24.42	24.43	25.5	0					
1.4	QPSK	1	3	24.30	24.41	24.37							
1.4	QPSK	1	5	24.31	24.48	24.26							
1.4	QPSK	3	0	24.36	24.42	24.37	24.5	1					
1.4	QPSK	3	1	24.36	24.41	24.36							
1.4	QPSK	3	3	24.20	24.45	24.23							
1.4	QPSK	8	0	23.42	23.50	23.41	24.5	1					
1.4	16QAM	1	0	23.39	23.39	23.35							
1.4	16QAM	1	3	23.21	23.40	23.35							
1.4	16QAM	1	5	23.36	23.39	23.32	23.5	2					
1.4	16QAM	3	0	23.72	23.76	23.70							
1.4	16QAM	3	1	23.66	23.67	23.64							
1.4	16QAM	3	3	23.62	23.67	23.63	23.5	2					
1.4	16QAM	8	0	22.24	22.46	22.38							
1.4	84QAM	1	0	22.28	22.36	22.26							
1.4	84QAM	1	3	22.29	22.36	22.28	23.5	2					
1.4	84QAM	1	5	22.25	22.38	22.23							
1.4	84QAM	3	0	22.46	22.60	22.44							
1.4	84QAM	3	1	22.41	22.61	22.45	22.5	3					
1.4	84QAM	3	3	22.39	22.60	22.34							
1.4	84QAM	8	0	21.26	21.34	21.29							
1.4	256QAM	1	0	19.32	19.48	19.47	20.5	5					
1.4	256QAM	1	3	19.28	19.40	19.37							
1.4	256QAM	1	5	19.34	19.46	19.29							
1.4	256QAM	3	0	19.23	19.34	19.27	20.5	5					
1.4	256QAM	3	1	19.17	19.35	19.11	20.5	5					
1.4	256QAM	3	3	19.23	19.29	19.21							
1.4	256QAM	8	0	19.31	19.40	19.30							

Band 26 Main PA Ant0										
BN [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turnup limit (dB)	APPR (dB)		
Channel				26150	26665	26665	25.5	0		
Frequency (MHz)				821.5	831.5	841.5				
15	QPSK	1	0	24.52	24.55	24.49				
15	QPSK	1	31	24.42	24.51	24.45	24.5	1		
15	QPSK	1	74	24.41	24.53	24.47				
15	QPSK	36	0	23.48	23.63	23.52				
15	QPSK	36	20	23.43	23.55	23.50	24.5	1		
15	QPSK	36	39	23.52	23.60	23.51				
15	QPSK	75	0	23.54	23.57	23.47				
15	16QAM	1	0	23.48	23.56	23.45	24.5	1		
15	16QAM	1	31	23.35	23.51	23.37				
15	16QAM	1	74	23.42	23.54	23.47				
15	16QAM	36	0	22.42	22.47	22.42	23.5	2		
15	16QAM	36	20	22.45	22.50	22.49				
15	16QAM	36	39	22.53	22.57	22.43				
15	16QAM	75	0	22.50	22.54	22.49	23.5	2		
15	64QAM	1	0	22.59	22.70	22.58				
15	64QAM	1	31	22.63	22.68	22.54				
15	64QAM	1	74	22.63	22.66	22.50	22.5	3		
15	64QAM	36	0	21.25	21.37	21.34				
15	64QAM	36	20	21.41	21.55	21.43				
15	64QAM	36	39	21.45	21.52	21.44	20.5	5		
15	64QAM	75	0	21.41	21.54	21.43				
15	256QAM	1	0	19.58	19.68	19.59				
15	256QAM	1	31	19.42	19.57	19.49	20.5	5		
15	256QAM	1	74	19.60	19.74	19.69				
15	256QAM	36	0	19.35	19.42	19.38				
15	256QAM	36	20	19.48	19.52	19.43	20.5	5		
15	256QAM	36	39	19.46	19.55	19.50				
15	256QAM	75	0	19.38	19.51	19.47				
Channel				26740	26865	26865	25.5	0		
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	24.42	24.44	24.36				
10	QPSK	1	25	24.39	24.46	24.31	24.5	0		
10	QPSK	1	49	24.28	24.42	24.42				
10	QPSK	25	0	23.43	23.52	23.46	24.5	1		
10	QPSK	25	12	23.29	23.45	23.40				
10	QPSK	25	25	23.48	23.48	23.47				
10	QPSK	50	0	23.42	23.49	23.43	24.5	1		
10	16QAM	1	0	23.41	23.46	23.39				
10	16QAM	1	25	23.33	23.47	23.31				
10	16QAM	1	49	23.35	23.51	23.34	24.5	1		
10	16QAM	25	0	22.36	22.35	22.38				
10	16QAM	25	12	22.35	22.56	22.42				
10	16QAM	25	25	22.40	22.44	22.38	23.5	2		
10	64QAM	1	0	22.51	22.58	22.52				
10	64QAM	1	25	22.50	22.55	22.45				
10	64QAM	1	49	22.53	22.51	22.51	22.5	3		
10	64QAM	25	0	21.18	21.31	21.25				
10	64QAM	25	12	21.32	21.52	21.37				
10	64QAM	25	25	21.32	21.35	21.31	20.5	5		
10	64QAM	50	0	21.34	21.50	21.33				
10	256QAM	1	0	19.45	19.53	19.39				
10	256QAM	1	25	19.32	19.42	19.42	20.5	5		
10	256QAM	1	49	19.54	19.65	19.58				
10	256QAM	25	0	19.36	19.26	19.33				
10	256QAM	25	12	19.43	19.41	19.29	20.5	5		
10	256QAM	25	25	19.39	19.48	19.36				
10	256QAM	50	0	19.28	19.40	19.39				
Channel				26715	26865	27025 <th rowspan="3">25.5</th> <th colspan="2" rowspan="3">0</th>	25.5	0		
Frequency (MHz)				816.5	831.5	846.5				
5	QPSK	1	0	24.44	24.46	24.38				
5	QPSK	1	12	24.32	24.38	24.25	24.5	0		
5	QPSK	1	24	24.34	24.45	24.39				
5	QPSK	12	0	23.45	23.57	23.48	24.5	1		
5	QPSK	12	7	23.29	23.45	23.45				
5	QPSK	12	13	23.48	23.53	23.38				
5	QPSK	36	0	23.42	23.47	23.39	24.5	1		
5	16QAM	1	0	23.41	23.44	23.33				
5	16QAM	1	12	23.21	23.44	23.22				
5	16QAM	1	24	23.37	23.45	23.34	23.5	2		
5	16QAM	12	0	22.34	22.44	22.34				
5	16QAM	12	7	22.35	22.55	22.42				
5	16QAM	12	13	22.47	22.49	22.39	23.5	2		
5	64QAM	1	0	22.54	22.59	22.53				
5	64QAM	1	12	22.50	22.54	22.46				
5	64QAM	1	24	22.52	22.59	22.79	22.5	3		
5	64QAM	12	0	21.20	21.30	21.21				
5	64QAM	12	7	21.31	21.43	21.37				
5	64QAM	12	13	21.38	21.42	21.37	20.5	5		
5	64QAM	25	0	21.27	21.49	21.39				
5	256QAM	1	0	19.45	19.51	19.45				
5	256QAM	1	12	19.29	19.53	19.36	20.5	5		
5	256QAM	1	24	19.54	19.66	19.55				
5	256QAM	12	0	19.24	19.31	19.26				
5	256QAM	12	7	19.36	19.41	19.37	20.5	5		
5	256QAM	12	13	19.35	19.42	19.43				
5	256QAM	25	0	19.32	19.39	19.38				
Channel				26705	26865	27025 <th rowspan="3">25.5</th> <th colspan="2" rowspan="3">0</th>	25.5	0		
Frequency (MHz)				815.5	831.5	847.5				
3	QPSK	1	0	24.43	24.52	24.37				
3	QPSK	1	8	24.37	24.42	24.32	24.5	0		
3	QPSK	1	14	24.34	24.45	24.43				
3	QPSK	8	0	23.34	23.51	23.42	24.5	1		
3	QPSK	8	4	23.29	23.45	23.36				
3	QPSK	8	7	23.37	23.46	23.43				
3	QPSK	15	0	23.46	23.52	23.42	24.5	1		
3	16QAM	1	0	23.44	23.52	23.37				
3	16QAM	1	8	23.27	23.47	23.44				
3	16QAM	1	14	23.30	23.45	23.36	24.5	1		
3	16QAM	8	0	22.34	22.42	22.32				
3	16QAM	8	4	22.42	22.54	22.42				
3	16QAM	8	7	22.43	22.53	22.39	23.5	2		
3	64QAM	1	0	22.37	22.47	22.46				
3	64QAM	1	8	22.48	22.61	22.50				
3	64QAM	1	14	22.79	22.86	22.76	22.5	3		
3	64QAM	8	0	21.13	21.28	21.21				
3	64QAM	8	4	21.37	21.46	21.38				
3	64QAM	8	7	21.36	21.38	21.34	20.5	5		
3	64QAM	15	0	21.28	21.45	21.36				
3	256QAM	1	0	19.43	19.56	19.55				
3	256QAM	1	8	19.30	19.45	19.39	20.5	5		
3	256QAM	1	14	19.46	19.71	19.61				
3	256QAM	8	0	19.26	19.36	19.25				
3	256QAM	8	4	19.38	19.39	19.29	20.5	5		
3	256QAM	8	7	19.34	19.42	19.43				
3	256QAM	15	0	19.34	19.48	19.41				
Channel				26697	26865 <th>27025<th rowspan="3">25.5</th><th colspan="2" rowspan="3">0</th></th>	27025 <th rowspan="3">25.5</th> <th colspan="2" rowspan="3">0</th>	25.5	0		
Frequency (MHz)				814.5	831.5	847.5				
1.4	QPSK	1	0	24.44	24.54	24.46				
1.4	QPSK	1	3	24.34	24.38	24.36	24.5	0		
1.4	QPSK	1	5	24.35	24.50	24.41				
1.4	QPSK	1	8	24.31	24.48	24.44				
1.4	QPSK	3	0	24.37	24.56	24.48	24.5	1		
1.4	QPSK	3	3	24.36	24.59	24.54				
1.4	QPSK	3	5	23.34	23.59	23.48				
1.4	16QAM	1	0	23.33	23.43	23.35	24.5	1		
1.4	16QAM	1	3	23.45	23.47	23.38				
1.4	16QAM	1	5	23.47	23.54	23.34				
1.4	16QAM	3	0	23.38	23.42	23.40	24.5	1		
1.4	16QAM	3	3	23.24	23.43	23.32				
1.4	16QAM	3	5	23.30	23.48	23.34				
1.4	16QAM	6	0	22.38	22.49	22.32	23.5	2		
1.4	16QAM	6	3	22.40	22.49	22.41				
1.4	16QAM	6	5	22.43	22.57	22.42				
1.4	64QAM	1	0	22.43	22.48	22.38	23.5	2		
1.4	64QAM	1	3	22.59	22.59	22.47				
1.4	64QAM	1	5	22.56	22.79	22.75				
1.4	64QAM	3	0	21.47	21.57	21.47	22.5	3		
1.4	64QAM	3	3	21.54	21.64	21.54				
1.4	64QAM	3	5	21.54	21.64	21.56				
1.4	64QAM	6	0	19.52	19.58	19.27	20.5	5		
1.4	256QAM	1	0	19.34	19.49	19.33				
1.4	256QAM	1	3	19.43	19.48	19.48				
1.4	256QAM	6	0	19.28	19.47	19.24	20.5	5		

GSM850 Ant1 Default								
GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8		
GSM 1 Tx slot	32.02	32.11	32.02	33.50	23.02	23.11	23.02	24.50
GPRS 1 Tx slot	32.05	32.16	32.08	33.50	23.05	23.16	23.08	24.50
GPRS 2 Tx slots	29.21	29.24	29.17	30.50	23.21	23.24	23.17	24.50
GPRS 3 Tx slots	27.40	27.44	27.34	28.50	23.14	23.18	23.08	24.24
GPRS 4 Tx slots	25.97	26.07	26.00	27.50	22.97	23.07	23.00	24.50
EDGE 1 Tx slot	26.21	26.25	26.11	27.50	17.21	17.25	17.11	18.50
EDGE 2 Tx slots	23.24	23.29	23.16	24.50	17.24	17.29	17.16	18.50
EDGE 3 Tx slots	21.40	21.53	21.48	22.70	17.14	17.27	17.22	18.44
EDGE 4 Tx slots	20.15	20.28	20.24	21.50	17.15	17.28	17.24	18.50

		GSM1900 Ant1 Default							
		Burst-Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			
TX Channel		512	561	810		512	561	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		28.13	28.19	28.15	30.00	19.13	19.19	19.15	21.00
GPRS 1 Tx slot		28.16	28.24	28.22	30.00	19.16	19.24	19.22	21.00
GPRS 2 Tx slots		25.27	25.31	25.25	27.00	19.27	19.31	19.25	21.00
GPRS 3 Tx slots		23.88	23.96	23.87	25.20	19.62	19.70	19.61	20.94
GPRS 4 Tx slots		22.35	22.47	22.37	24.00	19.35	19.47	19.37	21.00
EDGE 1 Tx slot		24.79	24.88	24.82	26.00	15.79	15.88	15.82	17.00
EDGE 2 Tx slots		21.97	22.07	21.93	23.00	15.97	16.07	15.93	17.00
EDGE 3 Tx slots		19.90	20.03	19.89	21.20	15.64	15.77	15.63	16.94
EDGE 4 Tx slots		19.20	19.26	19.21	20.00	16.20	16.26	16.21	17.00

		WCDMA II Ant1 Default					WCDMA IV Ant1 Default					WCDMA V Ant1 Default				
Channel	Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)			
	TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233				
Rx Channel		9662	9800	9938	1537	1638	1738	4357	4467	4488						
Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	1942.4	1962.6	1982.6						
3GPP Rel 99	AMR 12.2kbps	22.02	22.09	22.01	24.00	22.02	22.12	22.07	24.00	23.22	23.32	23.29	25.00			
3GPP Rel 99	RMC 12.2kbps	22.05	22.12	22.03	24.00	22.10	22.19	22.13	24.00	23.27	23.36	23.35	25.00			
3GPP Rel 6	HSDPA Subtest-1	21.06	21.14	21.06	23.00	21.15	21.23	21.20	23.00	22.36	22.34	22.35	24.00			
3GPP Rel 6	HSDPA Subtest-2	21.01	21.11	21.03	23.00	21.06	21.09	21.06	23.00	22.23	22.35	22.31	24.00			
3GPP Rel 6	HSDPA Subtest-3	20.56	20.60	20.60	22.50	20.60	20.69	20.65	22.50	21.76	21.84	21.88	23.50			
3GPP Rel 6	HSDPA Subtest-4	20.53	20.59	20.57	22.50	20.50	20.61	20.55	22.50	21.72	21.85	21.83	23.50			
3GPP Rel 8	DC-HSDPA Subtest-1	21.03	21.05	21.03	23.00	21.04	21.16	21.09	23.00	22.28	22.31	22.34	24.00			
3GPP Rel 8	DC-HSDPA Subtest-2	21.03	21.02	21.03	23.00	21.16	21.13	21.02	23.00	22.17	22.29	22.19	24.00			
3GPP Rel 8	DC-HSDPA Subtest-3	20.52	20.55	20.58	22.50	20.56	20.59	20.52	22.50	21.73	21.81	21.86	23.50			
3GPP Rel 8	DC-HSDPA Subtest-4	20.56	20.69	20.59	22.50	20.56	20.60	20.54	22.50	21.65	21.82	21.72	23.50			
3GPP Rel 6	HSUPA Subtest-1	21.12	21.03	21.01	23.00	21.01	21.10	21.01	23.00	22.15	22.22	22.19	24.00			
3GPP Rel 6	HSUPA Subtest-2	19.07	19.06	19.08	21.00	19.11	19.16	19.05	21.00	20.24	20.38	20.35	22.00			
3GPP Rel 6	HSUPA Subtest-3	20.11	20.14	20.18	22.00	20.13	20.24	20.24	22.00	21.39	21.45	21.43	23.00			
3GPP Rel 6	HSUPA Subtest-4	19.02	19.00	19.03	21.00	19.06	19.03	19.07	21.00	20.20	20.24	20.26	22.00			
3GPP Rel 6	HSUPA Subtest-5	21.01	21.01	21.07	23.00	21.05	21.11	21.04	23.00	22.14	22.33	22.18	24.00			
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.63	18.75	18.58	20.50	18.62	18.70	18.63	20.50	19.78	20.00	19.84	21.50			

Band 4 Main PA Ant1														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	22.96	23.01	22.90	24.5	0						
20	QPSK	1	49	22.96	22.97	22.96								
20	QPSK	1	99	22.74	22.88	23.76								
20	QPSK	50	0	21.75	21.83	21.72								
20	QPSK	50	24	21.65	21.79	21.63	23.5	1						
20	QPSK	50	50	21.64	21.74	21.59								
20	16QAM	100	0	21.72	21.83	21.68								
20	16QAM	1	0	21.80	21.87	21.82								
20	16QAM	1	49	21.71	21.81	21.77	23.5	1						
20	16QAM	1	99	21.72	21.77	21.68								
20	16QAM	50	0	20.80	20.84	20.73								
20	16QAM	50	24	20.70	20.76	20.67								
20	16QAM	50	50	20.69	20.80	20.69	22.5	2						
20	16QAM	100	0	20.65	20.74	20.61								
20	64QAM	1	0	20.82	20.86	20.71								
20	64QAM	1	49	20.76	20.80	20.76								
20	64QAM	50	0	19.84	19.79	19.67	21.5	3						
20	64QAM	50	24	19.58	19.70	19.58								
20	64QAM	50	50	19.72	19.75	19.68								
20	64QAM	100	0	19.52	19.67	19.57								
20	256QAM	1	0	17.66	17.67	17.57	19.5	5						
20	256QAM	1	49	17.60	17.62	17.56								
20	256QAM	1	99	17.57	17.63	17.54								
20	256QAM	50	0	17.64	17.63	17.59								
20	256QAM	50	24	17.54	17.63	17.52	19.5	5						
20	256QAM	50	50	17.66	17.69	17.66								
20	256QAM	100	0	17.52	17.60	17.52								
Channel														
Frequency (MHz)														
16	QPSK	1	0	22.88	22.92	22.78	24.5	0						
16	QPSK	1	37	22.79	22.88	22.80								
16	QPSK	1	74	22.65	22.76	22.62								
16	QPSK	36	0	21.72	21.71	21.67								
16	QPSK	36	24	21.58	21.66	21.59	23.5	1						
16	QPSK	36	39	21.57	21.64	21.54								
16	QPSK	75	0	21.59	21.78	21.58								
16	16QAM	1	0	21.68	21.76	21.70								
16	16QAM	1	37	21.60	21.72	21.72	23.5	1						
16	16QAM	1	74	21.66	21.80	21.76								
16	16QAM	36	0	20.68	20.73	20.69								
16	16QAM	36	20	20.65	20.70	20.63								
16	16QAM	36	39	20.65	20.70	20.58	22.5	2						
16	16QAM	75	0	20.61	20.70	20.58								
16	64QAM	1	0	20.70	20.81	20.50								
16	64QAM	1	37	20.66	20.80	20.57								
16	64QAM	1	74	20.50	20.65	20.51	21.5	3						
16	64QAM	36	0	19.55	19.68	19.62								
16	64QAM	36	20	19.55	19.62	19.54								
16	64QAM	36	39	19.53	19.71	19.51								
16	64QAM	75	0	19.66	19.65	19.54	19.5	5						
16	256QAM	1	0	17.70	17.72	17.56								
16	256QAM	1	37	17.64	17.67	17.63								
16	256QAM	1	74	17.63	17.66	17.61								
16	256QAM	36	0	17.65	17.66	17.58	19.5	5						
16	256QAM	36	20	17.58	17.55	17.50								
16	256QAM	36	39	17.71	17.70	17.63								
16	256QAM	75	0	17.66	17.72	17.66								
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.88	22.92	22.78	24.5	0						
10	QPSK	1	25	22.77	22.88	22.75								
10	QPSK	1	49	22.64	22.81	22.66								
10	QPSK	25	0	21.66	21.67	21.63								
10	QPSK	25	12	21.54	21.73	21.67	23.5	1						
10	QPSK	25	25	21.54	21.66	21.53								
10	QPSK	50	0	21.57	21.78	21.58								
10	16QAM	1	0	21.72	21.72	21.72								
10	16QAM	1	25	21.64	21.68	21.71	23.5	1						
10	16QAM	1	49	21.60	21.64	21.63								
10	16QAM	25	0	20.66	20.60	20.59								
10	16QAM	25	12	20.66	20.68	20.63								
10	16QAM	50	0	20.65	20.70	20.54	22.5	2						
10	16QAM	50	25	20.61	20.68	20.59								
10	64QAM	1	0	20.71	20.73	20.68								
10	64QAM	1	25	20.72	20.68	20.64								
10	64QAM	1	49	20.61	20.70	20.59	21.5	3						
10	64QAM	25	0	19.59	19.70	19.64								
10	64QAM	25	12	19.54	19.58	19.55								
10	64QAM	50	0	19.50	19.61	19.53								
10	64QAM	50	0	19.53	19.63	19.59	19.5	5						
10	256QAM	1	0	17.71	17.67	17.54								
10	256QAM	1	25	17.64	17.68	17.61								
10	256QAM	1	49	17.58	17.62	17.59								
10	256QAM	25	0	17.65	17.66	17.58								
10	256QAM	25	12	17.56	17.61	17.53	19.5	5						
10	256QAM	25	25	17.67	17.64	17.63								
10	256QAM	50	0	17.51	17.71	17.58								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.88	22.92	22.78	24.5	0						
5	QPSK	1	12	22.79	22.87	22.80								
5	QPSK	1	24	22.67	22.83	22.72								
5	QPSK	12	0	21.65	21.65	21.64								
5	QPSK	12	7	21.58	21.64	21.67	23.5	1						
5	QPSK	12	13	21.53	21.60	21.52								
5	QPSK	25	0	21.61	21.72	21.67								
5	16QAM	1	0	21.74	21.79	21.74								
5	16QAM	1	12	21.60	21.72	21.74	23.5	1						
5	16QAM	1	24	21.67	21.65	21.63								
5	16QAM	12	0	20.65	20.61	20.66								
5	16QAM	12	7	20.63	20.71	20.56								
5	16QAM	12	13	20.64	20.70	20.58	22.5	2						
5	16QAM	25	0	20.57	20.61	20.57								
5	64QAM	1	0	20.72	20.72	20.59								
5	64QAM	1	12	20.69	20.71	20.67								
5	64QAM	1	24	20.57	20.64	20.56	21.5	3						
5	64QAM	12	0	19.50	19.65	19.58								
5	64QAM	12	7	19.53	19.62	19.59								
5	64QAM	12	13	19.64	19.64	19.56								
5	64QAM	25	0	19.57	19.65	19.62	19.5	5						
5	256QAM	1	0	17.65	17.77	17.60								
5	256QAM	1	12	17.64	17.73	17.61								
5	256QAM	1	24	17.56	17.60	17.57								
5	256QAM	12	0	17.65	17.76	17.66	19.5	5						
5	256QAM	12	7	17.60	17.63	17.53								
5	256QAM	12	13	17.69	17.65	17.65								

Band 13 Main PA Ant1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up (sec)	APR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.06	23.06	23.06	25.5	0				
10	QPSK	1	25	23.06	23.06	23.06						
10	QPSK	1	49	23.06	23.06	23.06						
10	QPSK	25	0	22.84	22.84	22.84	24.5	1				
10	QPSK	25	25	22.79	22.79	22.79						
10	QPSK	25	50	22.84	22.84	22.84						
10	16QAM	1	0	21.79	21.79	21.79	24.5	1				
10	16QAM	1	25	22.79	22.79	22.79						
10	16QAM	1	49	22.79	22.79	22.79						
10	16QAM	25	0	21.89	21.89	21.89	23.5	2				
10	16QAM	25	25	21.81	21.81	21.81						
10	16QAM	25	50	21.89	21.89	21.89						
10	64QAM	1	0	22.07	22.07	22.07	23.5	2				
10	64QAM	1	25	22.01	22.01	22.01						
10	64QAM	1	49	22.07	22.07	22.07						
10	64QAM	25	0	20.76	20.76	20.76	22.5	3				
10	64QAM	25	25	20.83	20.83	20.83						
10	64QAM	25	50	20.76	20.76	20.76						
10	256QAM	1	0	18.94	18.94	18.94	20.5	5				
10	256QAM	1	25	18.91	18.91	18.91						
10	256QAM	1	49	18.88	18.88	18.88						
10	256QAM	25	0	18.78	18.78	18.78	20.5	5				
10	256QAM	25	25	18.84	18.84	18.84						
10	256QAM	25	50	18.81	18.81	18.81						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.84	23.84	23.88	25.5	0				
5	QPSK	1	12	23.87	23.87	23.88						
5	QPSK	1	24	23.78	23.80	23.77						
5	QPSK	12	0	22.87	22.78	22.88	24.5	1				
5	QPSK	12	7	22.72	22.73	22.73						
5	QPSK	12	13	22.73	22.72	22.68						
5	QPSK	25	0	22.84	22.73	22.78	24.5	1				
5	QPSK	25	0	22.74	22.71	22.78						
5	16QAM	1	12	22.65	22.71	22.72						
5	16QAM	1	24	22.64	22.69	22.71	23.5	2				
5	16QAM	12	0	21.78	21.84	21.78						
5	16QAM	12	7	21.69	21.68	21.74						
5	16QAM	1	0	21.69	21.68	21.64	23.5	2				
5	64QAM	1	0	21.72	21.75	21.84						
5	64QAM	1	0	21.65	21.65	21.96						
5	64QAM	1	24	21.94	21.92	21.83	22.5	3				
5	64QAM	12	0	20.74	20.74	20.78						
5	64QAM	12	7	20.67	20.63	20.65						
5	64QAM	12	13	20.72	20.73	20.70	20.5	5				
5	64QAM	25	0	20.68	20.64	20.60						
5	256QAM	1	0	18.84	18.81	18.84						
5	256QAM	1	12	18.77	18.87	18.82	20.5	5				
5	256QAM	1	24	18.79	18.72	18.78						
5	256QAM	12	0	18.74	18.75	18.84						
5	256QAM	12	7	18.72	18.73	18.84	20.5	5				
5	256QAM	12	13	18.69	18.76	18.79						
5	256QAM	25	0	18.71	18.75	18.68						

Band 26 Main PA Ant1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up (sec)	APR (dB)				
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.70	23.77	23.65	25.5	0				
15	QPSK	1	37	23.63	23.63	23.62						
15	QPSK	1	74	23.51	23.64	23.52						
15	QPSK	36	0	22.62	22.74	22.66	24.5	1				
15	QPSK	36	20	22.53	22.63	22.54						
15	QPSK	36	39	22.54	22.63	22.58						
15	QPSK	75	0	22.60	22.67	22.60	24.5	1				
15	16QAM	1	0	22.66	22.67	22.67						
15	16QAM	1	37	22.61	22.75	22.63						
15	16QAM	1	74	22.67	22.71	22.60	23.5	2				
15	16QAM	36	0	21.63	21.78	21.62						
15	16QAM	36	20	21.67	21.68	21.59						
15	16QAM	36	39	21.58	21.72	21.69	23.5	2				
15	16QAM	75	0	21.54	21.66	21.58						
15	64QAM	1	0	21.82	21.92	21.84	23.5	2				
15	64QAM	1	37	21.78	21.86	21.80						
15	64QAM	1	74	21.73	21.82	21.71						
15	64QAM	36	0	20.74	20.80	20.72	22.5	3				
15	64QAM	36	20	20.72	20.85	20.70						
15	64QAM	36	39	20.72	20.85	20.70						
15	256QAM	1	0	18.61	18.75	18.63	20.5	5				
15	256QAM	1	37	18.58	18.72	18.64						
15	256QAM	1	74	18.64	18.67	18.60						
15	256QAM	36	0	18.51	18.64	18.52	20.5	5				
15	256QAM	36	20	18.54	18.58	18.51						
15	256QAM	36	39	18.60	18.62	18.55						
15	256QAM	75	0	18.60	18.63	18.56	20.5	5				
15	256QAM	75	0	18.61	18.63	18.56						
15	256QAM	75	0	18.61	18.63	18.56						
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.60	23.74	23.62	25.5	0				
10	QPSK	1	28	23.58	23.64	23.64						
10	QPSK	1	49	23.55	23.70	23.58						
10	QPSK	25	0	22.63	22.67	22.70	24.5	1				
10	QPSK	25	12	22.59	22.68	22.63						
10	QPSK	25	26	22.59	22.65	22.58						
10	QPSK	50	0	22.66	22.69	22.56	24.5	1				
10	16QAM	1	0	22.70	22.81	22.70						
10	16QAM	1	28	22.59	22.81	22.62						
10	16QAM	25	0	21.81	21.82	21.58	23.5	2				
10	16QAM	25	12	21.67	21.65	21.53						
10	16QAM	25	49	21.66	21.69	21.51						
10	64QAM	1	0	21.58	21.63	21.55	23.5	2				
10	64QAM	1	0	21.72	21.77	21.80						
10	64QAM	1	24	21.63	21.71	21.71						
10	64QAM	1	49	21.63	21.75	21.59	22.5	3				
10	64QAM	25	0	20.71	20.76	20.68						
10	64QAM	25	12	20.66	20.67	20.65						
10	64QAM	25	26	20.58	20.62	20.51	20.5	5				
10	64QAM	50	0	20.56	20.68	20.63						
10	256QAM	1	0	18.56	18.56	18.56						
10	256QAM	1	26	18.57	18.79	18.71	20.5	5				
10	256QAM	1	49	18.61	18.70	18.57						
10	256QAM	12	0	18.54	18.60	18.57						
10	256QAM	12	7	18.54	18.54	18.52	20.5	5				
10	256QAM	12	13	18.59	18.64	18.53						
10	256QAM	25	0	18.58	18.61	18.54						
10	256QAM	50	0	18.65	18.67	18.52	20.5	5				
10	256QAM	50	0	18.65	18.67	18.52						
10	256QAM	50	0	18.65	18.67	18.52						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.72	23.72	23.63	25.5	0				
5	QPSK	1	8	23.70	23.67	23.59						
5	QPSK	1					24.5	1				
5	QPSK	1	16	23.68	23.64	23.55						
5	QPSK	1					24.5	1				
5	QPSK	1	24	23.66	23.62	23.53						
5	QPSK	1					24.5	1				
5	QPSK	1	32	23.64	23.60	23.51						
5	QPSK	1					24.5	1				
5	QPSK	1	40	23.62	23.58	23.49						
5	QPSK	1					24.5	1				
5	QPSK	1	48	23.60	23.56	23.47						
5	QPSK	1					24.5	1				
5	QPSK	1	56	23.58	23.54	23.45						
5	QPSK	1					24.5	1				
5	QPSK	1	64	23.56	23.52	23.43						
5	QPSK	1					24.5	1				
5	QPSK	1	72	23.54	23.50	23.41						
5	QPSK	1					24.5	1				
5	QPSK	1	80	23.52	23.48	23.39						
5	QPSK	1					24.5	1				
5	QPSK	1	88	23.50	23.46	23.37						
5	QPSK	1					24.5	1				
5	QPSK	1	96	23.48	23.44	23.35						
5	QPSK	1					24.5	1				
5	QPSK	1	104	23.46	23.42	23.33						
5	QPSK	1					24.5	1				
5	QPSK	1	112	23.44	23.40	23.31						
5	QPSK	1					24.5	1				
5	QPSK	1	120	23.42	23.38	23.29						
5	QPSK	1					24.5	1				
5	QPSK	1	128	23.40	23.36	23.27						
5	QPSK	1					24.5	1				
5	QPSK	1	136	23.38	23.34	23.25						
5	QPSK	1					24.5	1				
5	QPSK	1	144	23.36	23.32	23.23						
5	QPSK	1					24.5	1				
5	QPSK	1	152	23.34	23.30	23.21						
5	QPSK	1					24.5	1				
5	QPSK	1	160	23.32	23.28	23.19						
5	QPSK	1					24.5	1				
5	QPSK	1	168	23.30	23.26	23.17						
5	QPSK	1					24.5	1				
5	QPSK	1	176	23.28	23.24	23.15						
5	QPSK	1					24.5	1				
5	QPSK	1	184	23.26	23.22	23.13						
5	QPSK	1					24.5	1				
5	QPSK	1	192	23.24	23.20	23.11						
5	QPSK	1					24.5	1				
5	QPSK	1	200	23.22	23.18	23.09						
5	QPSK	1					24.5	1				
5	QPSK	1	208	23.20	23.16	23.07						
5	QPSK	1					24.5	1				
5	QPSK	1	216	23.18	23.14	23.05						
5	QPSK	1					24.5	1				
5	QPSK	1	224	23.16	23.12	23.03						
5	QPSK	1					24.5	1				
5	QPSK	1	232	23.14	23.10	23.01						
5	QPSK	1					24.5	1				
5	QPSK	1	240	23.12	23.08	22.99						
5	QPSK	1					24.5	1				
5	QPSK	1	248	23.10	23.06	22.97						
5	QPSK	1					24.5	1				
5	QPSK	1	256	23.08	23.04	22.95						
5	QPSK	1					24.5	1				
5	QPSK	1	264	23.06	23.02	22.93						
5	QPSK	1					24.5	1				
5	QPSK	1	272	23.04	23.00	22.91						
5	QPSK	1					24.5	1				
5	QPSK	1	280	23.02	22.98	22.89						
5	QPSK	1					24.5	1				
5	QPSK	1	288	23.00	22.96	22.87						
5	QPSK	1					24.5	1				
5	QPSK	1	296	22.98	22.94	22.85						
5	QPSK	1					24.5	1				
5	QPSK	1	304	22.96	22.92	22.83						
5	QPSK	1					24.5	1				
5	QPSK	1	312	22.94	22.90	22.81						
5	QPSK	1					24.5	1				
5	QPSK	1	320	22.92	22.88	22.79						
5	QPSK	1					24.5	1				
5	QPSK	1	328	22.90	22.86	22.77						
5	QPSK	1					24.5	1				
5	QPSK	1	336	22.88	22.84	22.75						
5	QPSK	1					24.5	1				
5	QPSK	1	344	22.86	22.82	22.73						
5	QPSK	1					24.5	1				
5	QPSK	1	352	22.84	22.80	22.71						
5	QPSK	1					24.5	1				
5	QPSK	1	360	22.82	22.78	22.69						
5	QPSK	1					24.5	1				
5	QPSK	1	368	22.80	22.76	22.67						
5	QPSK	1					24.5	1				
5	QPSK	1	376	22.78	22.74	22.65						
5	QPSK	1					24.5	1				
5	QPSK	1	384	22.76	22.72	22.63						
5	QPSK	1					24.5	1				
5	QPSK	1	392	22.74	22.70	22.61						
5	QPSK	1					24.5	1				
5	QPSK	1	400	22.72	22.68	22.59						
5	QPSK	1					24.5	1				
5	QPSK	1	408	22.70	22.66	22.57						
5	QPSK	1					24.5	1				
5	QPSK	1	416	22.68	22.64	22.55						
5	QPSK	1					24.5	1				
5	QPSK	1	424	22.66	22.62	22.53						
5	QPSK	1					24.5	1				
5	QPSK	1	432	22.64	22.60	22.51						
5	QPSK	1					24.5	1				
5	QPSK	1	440	22.62	22.58	22.49						
5	QPSK	1					24.5	1				
5	QPSK	1	448	22.60	22.56	22.47						
5	QPSK	1					24.5	1				
5	QPSK	1	456	22.58	22.54	22.45						
5	QPSK	1					24.5	1				
5	QPSK	1	464	22.56	22.52	22.43						
5	QPSK	1					24.5	1				
5	QPSK	1	472	22.54	22.50	22.41						
5	QPSK	1					24.5	1				
5	QPSK	1	480	22.52	22.48	22.39						
5	QPSK	1					24.5	1				
5	QPSK	1</										



Band 38 Main PA Ant1												
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)												
37850 38000 38150												
20	QPSK	1	0	23.68	23.73	23.81	25	0				
20	QPSK	1	48	23.62	23.69	23.59						
20	QPSK	1	96	23.52	23.65	23.56						
20	QPSK	50	0	22.79	22.92	22.79						
20	QPSK	50	24	22.77	22.81	22.71	24	1				
20	QPSK	50	48	22.76	22.87	22.78						
20	QPSK	100	0	22.88	22.84	22.74						
20	16QAM	1	0	22.83	22.86	22.87						
20	16QAM	50	24	21.77	21.84	21.89	23	2				
20	16QAM	50	48	21.77	21.89	21.77						
20	16QAM	100	0	21.45	21.54	21.45						
20	64QAM	1	48	21.43	21.55	21.42						
20	64QAM	1	96	21.37	21.45	21.34	23	2				
20	64QAM	50	0	20.78	20.91	20.84						
20	64QAM	50	24	20.74	20.78	20.69						
20	64QAM	50	50	20.74	20.79	20.71						
20	64QAM	100	0	20.61	20.68	20.57	20	5				
20	256QAM	1	0	18.51	18.65	18.58						
20	256QAM	1	48	18.58	18.65	18.52						
20	256QAM	1	96	18.48	18.62	18.67						
20	256QAM	50	0	18.57	18.56	18.61	20	5				
20	256QAM	50	24	18.64	18.67	18.73						
20	256QAM	50	50	18.51	18.58	18.89						
20	256QAM	100	0	18.73	18.75	18.74						
Channel												
Frequency (MHz)												
37850 38000 38175												
15	QPSK	1	0	23.59	23.68	23.55	25	0				
15	QPSK	1	37	23.50	23.61	23.55						
15	QPSK	1	74	23.46	23.58	23.48						
15	QPSK	36	0	22.77	22.86	22.72						
15	QPSK	36	20	22.74	22.77	22.69	24	1				
15	QPSK	36	36	22.72	22.81	22.78						
15	QPSK	75	0	22.62	22.69	22.60						
15	16QAM	1	0	22.79	22.80	22.78						
15	16QAM	1	37	22.68	22.77	22.65	23	2				
15	16QAM	1	74	22.84	22.82	22.74						
15	16QAM	36	0	21.74	21.86	21.71						
15	16QAM	36	20	21.65	21.80	21.56						
15	16QAM	36	36	21.70	21.78	21.84	23	2				
15	16QAM	75	0	21.68	21.80	21.84						
15	64QAM	1	0	21.35	21.50	21.34						
15	64QAM	1	37	21.34	21.41	21.38						
15	64QAM	74	0	21.27	21.33	21.24	22	3				
15	64QAM	36	0	20.63	20.86	20.78						
15	64QAM	36	20	20.69	20.71	20.59						
15	64QAM	36	36	20.68	20.72	20.64						
15	64QAM	75	0	20.55	20.55	20.45	20	5				
15	256QAM	1	0	18.39	18.51	18.42						
15	256QAM	1	37	18.52	18.52	18.45						
15	256QAM	1	74	18.45	18.57	18.51						
15	256QAM	36	0	18.84	18.85	18.88	20	5				
15	256QAM	36	20	18.79	18.83	18.80						
15	256QAM	36	36	18.86	18.86	18.86						
15	256QAM	75	0	18.60	18.68	18.60						
Channel												
Frequency (MHz)												
37850 38000 38200												
10	QPSK	1	0	23.59	23.64	23.54	25	0				
10	QPSK	1	25	23.54	23.62	23.58						
10	QPSK	1	48	23.47	23.53	23.48						
10	QPSK	25	0	22.83	22.83	22.73						
10	QPSK	25	12	22.85	22.89	22.57	24	1				
10	QPSK	25	25	22.81	22.79	22.67						
10	16QAM	1	0	22.95	22.74	22.71						
10	16QAM	1	0	22.71	22.80	22.80						
10	16QAM	1	25	22.67	22.73	22.66	24	1				
10	16QAM	1	48	22.73	22.87	22.74						
10	16QAM	25	0	21.75	21.82	21.70						
10	16QAM	25	12	21.68	21.78	21.54						
10	16QAM	25	12	21.73	21.80	21.89	23	2				
10	16QAM	50	0	21.74	21.79	21.69						
10	64QAM	1	0	21.44	21.50	21.38						
10	64QAM	1	25	21.35	21.43	21.36						
10	64QAM	1	48	21.37	21.31	21.27	23	2				
10	64QAM	25	0	20.70	20.78	20.78						
10	64QAM	25	12	20.62	20.63	20.57						
10	64QAM	25	25	20.60	20.67	20.61						
10	64QAM	50	0	20.57	20.60	20.45	20	5				
10	256QAM	1	0	18.42	18.59	18.47						
10	256QAM	1	25	18.45	18.61	18.47						
10	256QAM	1	48	18.43	18.48	18.51						
10	256QAM	25	0	18.88	18.88	18.87	20	5				
10	256QAM	25	12	18.77	18.83	18.86						
10	256QAM	25	25	18.87	18.86	18.76						
10	256QAM	50	0	18.68	18.71	18.67						
Channel												
Frequency (MHz)												
38175 38200 38200												
5	QPSK	1	0	23.57	23.69	23.54	25	0				
5	QPSK	1	16	23.51	23.58	23.50						
5	QPSK	1	24	23.38	23.52	23.43						
5	QPSK	12	0	22.71	22.89	22.72						
5	QPSK	12	7	22.64	22.86	22.86	24	1				
5	QPSK	12	18	22.65	22.72	22.69						
5	QPSK	25	0	22.59	22.79	22.65						
5	16QAM	1	0	22.73	22.91	22.79						
5	16QAM	1	12	22.57	22.77	22.68	24	1				
5	16QAM	1	24	22.50	22.81	22.74						
5	16QAM	12	0	21.74	21.88	21.65						
5	16QAM	12	7	21.64	21.79	21.65						
5	16QAM	12	13	21.74	21.78	21.72	23	2				
5	16QAM	25	0	21.74	21.74	21.72						
5	64QAM	1	0	21.35	21.43	21.38						
5	64QAM	1	12	21.30	21.42	21.38						
5	64QAM	1	24	21.27	21.32	21.22	22	3				
5	64QAM	12	0	20.73	20.84	20.86						
5	64QAM	12	7	20.67	20.74	20.55						
5	64QAM	12	13	20.69	20.74	20.67						
5	64QAM	25	0	20.74	20.84	20.46	20	5				
5	256QAM	1	0	18.40	18.57	18.45						
5	256QAM	1	12	18.54	18.58	18.41						
5	256QAM	1	24	18.37	18.58	18.43						
5	256QAM	12	0	18.67	18.83	18.72	20	5				
5	256QAM	12	7	18.80	18.84	18.80						
5	256QAM	12	13	18.85	18.89	18.77						
5	256QAM	25	0	18.63	18.68	18.61						

Band 41 Main PA Ant1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
38750 40185 40400 41055 41460										
20	QPSK	1	0	23.64	23.75	23.81	23.70	23.69	24.5	0
20	QPSK	1	48	23.63	23.73	23.75	23.69	23.62		
20	QPSK	1	96	23.53	23.62	23.70	23.67	23.51		
20	QPSK	50	24	23.50	23.64	23.70	23.67	23.51	23.5	1
20	QPSK	50	72	23.62	23.74	23.80	23.76	23.62		
20	QPSK	100	0	23.75	23.87	23.93	23.85	23.80		
20	16QAM	1	0	22.91	22.90	23.05	22.99	22.88	23.5	1
20	16QAM	1	48	22.84	22.83	22.98	22.92	22.81		
20	16QAM	1	96	22.94	22.95	23.05	22.99	22.92		
20	16QAM	50	0	21.88	21.84	22.01	21.89	21.93	23.5	2
20	16QAM	50	48	21.90	21.86	22.02	21.91	21.92		
20	16QAM	50	96	21.88	21.84	22.00	21.85	21.94		
20	16QAM	100	0	21.86	21.87	21.98	21.89	21.86	23.5	2
20	16QAM	100	48	21.90	21.84	22.00	21.91	21.86		
20	16QAM	1	48	21.48	21.57	21.62	21.50	21.46		
20	64QAM	1	0	21.42	21.47	21.52	21.43	21.38	21.5	3
20	64QAM	50	0	20.91	20.96	21.02	20.95	20.93		
20	64QAM	50	24	20.78	20.81	20.89	20.81	20.83		
20	256QAM	1	0	18.84	18.76	18.87	18.82	18.68	19.5	5
20	256QAM	1	96	18.84	18.84	18.81	18.84	18.70		
20	256QAM	1	96	18.84	18.84	18.88	18.84	18.87		
20	256QAM	50	0	18.56	18.59	18.67	18.58	18.56	19.5	5
20	256QAM	50	24	18.85	18.91	18.97	18.87	18.88		
20	256QAM	50	50	18.85	18.94	19.01	18.92	18.87		
Channel										
Frequency (MHz)										
38750 40185 40400 41055 41460										
15	QPSK	1	0	23.63	23.73	23.75	23.67	23.65	24.5	0
15	QPSK	1	37	23.51	23.63	23.61	23.63	23.54		
15	QPSK	1	74	23.45	23.53	23.62	23.55	23.46		
15	QPSK	36	20	22.81	22.86	22.92	22.81	22.78	23.5	1
15	QPSK	36	20	22.78	22.74	22.85	22.81	22.74		
15	QPSK	75	0	22.76	22.78	22.85	22.83	22.68		
15	QPSK	75	0	22.71	22.69	22.82	22.73	22.67	23.5	1
15	16QAM	1	0	22.81	22.75	22.85	22.85	22.80		
15	16QAM	1	74	22.88	22.83	22.88	22.91	22.82		
15	16QAM	36	0	21.70	21.80	21.86	21.82	21.79	22.5	2
15	16QAM	36	0	21.78	21.78	21.82	21.79	21.78		
15	16QAM	36	36	21.78	21.72	21.87	21.81	21.83		
15	64QAM	1	0	21.74	21.74	21.82	21.68	21.83	22.5	2
15	64QAM	1	0	21.36	21.60	21.55	21.62	21.49		
15	64QAM	1	37	21.42	21.51	21.68	21.37	21.40		
15	64QAM	1	74	21.53	21.53	21.62	21.53	21.53	21.5	3
15	64QAM	36	0	20.86	20.82	20.94	20.92	20.82		
15	64QAM	36	20	20.67	20.59	20.80	20.66	20.67		
15	64QAM	75	0	20.68	20.66	20.80	20.67	20.67	19.5	5
15	256QAM	1	0	18.56	18.56	18.56	18.56	18.56		
15	256QAM	1	37	18.54	18.62	18.74	18.52	18.59		
15	256QAM	1	74	18.53	18.58	18.59	18.49	18.53	19.5	5
15	256QAM	50	0	18.56	18.56	18.56	18.56	18.56		
15	256QAM	50	20	18.79	18.77	18.91	18.83	18.84		
15	256QAM	36	39	18.76	18.92	18.99	18.92	18.74	19.5	5
15	256QAM	75	0	18.60	18.74	18.84	18.64	18.66		
Channel										
Frequency (MHz)										
38750 40185 40400 41055 41460										
15	QPSK	1	25	23.57	23.61	23.61	23.61	23.58	24.5	0
15	QPSK	1	25	23.57	23.61	23.61	23.61	23.58		
15	QPSK	25	0	22.86	22.91	22.97	22.75	22.70		
15	QPSK	25	12	22.87	22.75	22.94	22.78	22.75	23.5	1
15	QPSK	25	12	22.70	22.83	22.91	22.78	22.72		
15	QPSK	50	0	22.84	22.89	22.79	22.73	22.65		
15	16QAM	1	0	22.85	22.89	22.95	22.89	22.79	23.5	1
15	16QAM	1	49	22.77	22.79	22.87	22.81	22.72		
15	16QAM	1	49	22.83	22.81	22.94	22.87	22.84		
15	16QAM	25	0	21.79	21.80	21.86	21.81	21.79	22.5	2
15	16QAM	25	0	21.68	21.68	21.78	21.75	21.76		
15	16QAM	25	25	21.75	21.79	21.91	21.82	21.87		
15	64QAM	1	0	21.77	21.78	21.84	21.78	21.74	22.5	2
15	64QAM	1	0	21.40	21.57	21.47	21.40	21.49		
15	64QAM	1	25	21.40	21.49	21.55	21.45	21.40		
15	64QAM	25	0	20.81	20.81	20.89	20.94	20.90	21.5	3
15	64QAM	25	12	20.70	20.77	20.75	20.76	20.66		
15	64QAM	25	12	20.69	20.69	20.79	20.73	20.62		
15	64QAM	50	0	20.67	20.65	20.68	20.61	20.59	19.5	5
15	256QAM	1	0	18.53	18.53	18.53	18.53	18.53		
15	256QAM	1	25	18.57	18.61	18.73	18.43	18.53		
15	256QAM	1	49	18.50	18.50	18.57	18.52	18.42	19.5	5
15	256QAM	50	0	18.50	18.50	18.50	18.50	18.50		
15	256QAM	25	12	18.62	18.80	18.86	18.80	18.78		
15	256QAM	25	12	18.73	18.90	18.98	18.91	18.82	19.5	5
15	256QAM	50	0	18.73	18.90	18.98	18.91	18.82		
15	256QAM	50	0	18.73	18.90	18.98	18.91	18.82		
Channel										
Frequency (MHz)										
38750 40185 40400 41055 41460										
15	QPSK	1	0	23.53	23.63	23.65	23.55	23.55	24.5	0
15	QPSK	1	12	23.60	23.63	23.61	23.63	23.55		
15	QPSK	1	12	23.43	23.43	23.43	23.43	23.43		
15	QPSK	12	0	22.85	22.91	22.97	22.77	22.80	23.5	1
15	QPSK	12	0	22.70	22.75	22.91	22.79	22.81		
15	QPSK	25	0	22.84	22.89	22.79	22.81	22.67		
15	16QAM	1	0	22.79	22.83	22.92	22.99	22.76	23.5	1
15	16QAM	1	12	22.73	22.79	22.87	22.81	22.72		
15	16QAM	1	24	22.89	22.88	23.01	22.85	22.81		
15	16QAM	12	0	21.79	21.79	21.91	21.79	21.81	22.5	2
15	16QAM	12	0	21.61	21.61	21.73	21.64	21.76		
15	16QAM	12	0	21.39	21.51	21.48	21.47	21.39		
15	64QAM	1	12	21.36	21.43	21.57	21.47	21.41	22.5	2
15	64QAM	1	12	21.16	21.16	21.27	21.30	21.27		
15	64QAM	12	0	20.67	20.72	20.89	20.72	20.65		
15	64QAM	25	0	20.67	20.66	20.74	20.67	20.61	21.5	3
15	64QAM	25	0	20.67	20.66	20.74	20.67	20.61		
15	64QAM	25	0	20.67	20.66	20.74	20.67	20.61		
15	256QAM	1	24	18.53	18.53	18.53	18.53	18.53	19.5	5
15	256QAM	1	24	18.43	18.55	18.64	18.49	18.51		
15	256QAM	1	24	18.43	18.55	18.64	18.49	18.51		
15	256QAM	12	7	18.77	18.87	18.88	18.76	18.78	19.5	5
15	256QAM	12	13	18.76	18.91	18.97	18.96	18.79		
15	256QAM	12	13	18.76	18.95	18.97	18.95	18.79		



Band 42 FCC Part27Q Main PA Ant1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.40	23.50	23.52	25	0				
20	QPSK	1	49	23.38	23.41	23.30						
20	QPSK	1	99	23.35	23.38	23.29						
20	QPSK	50	0	22.30	22.41	22.51						
20	QPSK	50	24	22.26	22.36	22.30	24	1				
20	QPSK	50	50	22.24	22.32	22.20						
20	QPSK	100	0	22.30	22.35	22.31						
20	16QAM	1	0	22.27	22.31	22.17						
20	16QAM	1	49	22.18	22.28	22.18	24	1				
20	16QAM	1	99	22.13	22.24	22.20						
20	16QAM	50	0	21.28	21.37	21.26						
20	16QAM	50	24	21.22	21.28	21.21						
20	16QAM	50	50	21.22	21.28	21.20	23	2				
20	16QAM	100	0	21.22	21.28	21.19						
20	64QAM	1	0	21.14	21.22	21.15						
20	64QAM	1	49	21.08	21.16	21.11						
20	64QAM	1	99	21.10	21.15	21.10	23	2				
20	64QAM	50	0	20.28	20.37	20.22						
20	64QAM	50	24	20.18	20.27	20.24						
20	64QAM	50	50	20.27	20.31	20.16						
20	64QAM	100	0	20.17	20.23	20.19	22	3				
20	256QAM	1	0	18.18	18.27	18.22						
20	256QAM	1	49	18.20	18.33	18.21						
20	256QAM	1	99	18.21	18.26	18.17						
20	256QAM	36	0	18.20	18.26	18.14	20	5				
20	256QAM	50	24	18.11	18.21	18.20						
20	256QAM	50	50	18.19	18.24	18.12						
20	256QAM	100	0	18.23	18.27	18.13						
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.23	23.33	23.22	25	0				
15	QPSK	1	37	23.31	23.26	23.18						
15	QPSK	1	74	23.28	23.26	23.18						
15	QPSK	36	0	22.17	22.29	22.26						
15	QPSK	36	20	22.11	22.22	22.23	24	1				
15	QPSK	36	50	22.06	22.28	22.27						
15	QPSK	75	0	22.22	22.32	22.23						
15	16QAM	1	0	22.23	22.20	22.07						
15	16QAM	1	37	22.14	22.23	22.11	24	1				
15	16QAM	1	74	22.08	22.10	22.13						
15	16QAM	36	0	21.17	21.33	21.23						
15	16QAM	36	20	21.15	21.21	21.08						
15	16QAM	36	50	21.08	21.19	21.15	23	2				
15	16QAM	75	0	21.21	21.18	21.12						
15	64QAM	1	0	21.05	21.11	21.10						
15	64QAM	1	37	21.10	21.13	21.07						
15	64QAM	1	74	21.04	21.16	21.15	23	2				
15	64QAM	36	0	20.15	20.30	20.15						
15	64QAM	36	20	20.05	20.15	20.19						
15	64QAM	36	50	20.17	20.18	20.14						
15	64QAM	75	0	20.13	20.15	20.04	22	3				
15	256QAM	1	0	18.13	18.24	18.08						
15	256QAM	1	37	18.16	18.24	18.15						
15	256QAM	1	74	18.18	18.20	18.02						
15	256QAM	36	0	18.09	18.26	18.21	20	5				
15	256QAM	50	20	18.01	18.09	18.08						
15	256QAM	50	36	18.07	18.16	18.19						
15	256QAM	75	0	18.16	18.16	18.03						
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.29	23.40	23.29	25	0				
10	QPSK	1	25	23.26	23.33	23.21						
10	QPSK	1	49	23.25	23.28	23.22						
10	QPSK	1	99	23.15	23.26	23.17						
10	QPSK	25	12	22.11	22.27	22.26	24	1				
10	QPSK	25	25	22.17	22.24	22.10						
10	QPSK	50	0	22.22	22.21	22.20						
10	16QAM	1	0	22.15	22.22	22.08						
10	16QAM	1	25	22.08	22.16	22.06	24	1				
10	16QAM	1	49	22.08	22.18	22.12						
10	16QAM	25	0	21.16	21.30	21.12						
10	16QAM	25	12	21.12	21.17	21.14						
10	16QAM	25	25	21.17	21.23	21.15	23	2				
10	16QAM	50	0	21.18	21.25	21.07						
10	64QAM	1	0	21.04	21.11	21.10						
10	64QAM	1	25	21.09	21.14	21.03						
10	64QAM	1	49	21.02	21.11	21.02	23	2				
10	64QAM	25	0	20.15	20.26	20.13						
10	64QAM	25	12	20.02	20.19	20.11						
10	64QAM	25	25	20.12	20.23	20.07						
10	64QAM	50	0	20.03	20.17	20.05	22	3				
10	256QAM	1	0	18.03	18.12	18.06						
10	256QAM	1	25	18.09	18.26	18.06						
10	256QAM	1	49	18.14	18.19	18.05						
10	256QAM	25	0	18.14	18.25	18.05	20	5				
10	256QAM	25	12	18.00	18.15	18.02						
10	256QAM	25	25	18.16	18.14	18.01						
10	256QAM	50	0	18.14	18.12	18.01						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.27	23.38	23.22	25	0				
5	QPSK	1	12	23.20	23.33	23.24						
5	QPSK	1	24	23.27	23.30	23.15						
5	QPSK	12	0	22.29	22.34	22.20						
5	QPSK	12	7	22.18	22.24	22.24	24	1				
5	QPSK	12	13	22.18	22.29	22.12						
5	QPSK	25	0	22.21	22.24	22.24						
5	16QAM	1	0	22.23	22.19	22.07						
5	16QAM	1	12	22.09	22.16	22.04	24	1				
5	16QAM	1	24	22.05	22.16	22.11						
5	16QAM	12	0	21.24	21.28	21.19						
5	16QAM	12	7	21.15	21.17	21.14						
5	16QAM	12	13	21.18	21.24	21.11	23	2				
5	16QAM	25	0	21.16	21.25	21.15						
5	64QAM	1	0	21.11	21.14	21.08						
5	64QAM	1	12	21.08	21.12	21.03						
5	64QAM	1	24	21.07	21.03	21.06	23	2				
5	64QAM	12	0	20.12	20.23	20.11						
5	64QAM	12	7	20.02	20.19	20.10						
5	64QAM	25	0	20.06	20.15	20.07						
5	256QAM	1	0	18.06	18.23	18.18	20	5				
5	256QAM	1	12	18.12	18.29	18.08						
5	256QAM	1	24	18.06	18.16	18.03						
5	256QAM	12	0	18.11	18.21	18.19						
5	256QAM	12	7	18.00	18.13	18.00	20	5				
5	256QAM	12	13	18.15	18.17	18.02						
5	256QAM	25	0	18.08	18.14	18.01						
5	256QAM	25	0	18.08	18.14	18.01						

Band 48_FCC Main PA Ant1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Frac.	Power Mid Ch./Frac.	Power High Ch./Frac.	Power Low Ch./Frac.	Power Mid Ch./Frac.	Power High Ch./Frac.	Time-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.50	23.53	23.46	23.50	23.53	23.46	25	0
20	QPSK	1	49	23.40	23.49	23.42	23.40	23.49	23.42		
20	QPSK	1	99	23.46	23.53	23.44	23.46	23.53	23.44		
20	QPSK	50	0	22.39	22.51	22.47	22.39	22.51	22.47		
20	QPSK	50	24	22.38	22.42	22.34	22.38	22.42	22.34	24	1
20	QPSK	50	50	22.40	22.50	22.36	22.40	22.50	22.36		
20	16QAM	1	0	22.46	22.47	22.38	22.41	22.42	22.33	23	2
20	16QAM	1	49	22.37	22.44	22.35	22.37	22.44	22.35		
20	16QAM	1	99	22.21	22.30	22.19	22.25	22.32	22.21		
20	16QAM	50	0	21.35	21.51	21.42	21.33	21.49	21.33		
20	16QAM	50	24	21.30	21.37	21.28	21.33	21.38	21.25	23	2
20	16QAM	50	50	21.36	21.40	21.26	21.37	21.41	21.27		
20	16QAM	1	0	21.32	21.36	21.26	21.30	21.34	21.24	22	3
20	16QAM	1	49	21.25	21.31	21.21	21.28	21.30	21.21		
20	16QAM	1	99	20.98	21.05	20.97	20.97	21.02	20.97		
20	16QAM	50	24	20.23	20.36	20.27	20.23	20.36	20.27		
20	16QAM	50	50	20.24	20.34	20.23	20.24	20.34	20.23	20	5
20	256QAM	1	0	18.28	18.32	18.22	18.30	18.32	18.22		
20	256QAM	1	49	18.29	18.47	18.44	18.33	18.47	18.44		
20	256QAM	1	99	18.37	18.42	18.36	18.26	18.37	18.42		
20	256QAM	50	24	18.27	18.27	18.22	18.27	18.27	18.22	20	5
20	256QAM	50	50	18.21	18.30	18.23	18.27	18.30	18.23		
20	256QAM	50	50	18.25	18.32	18.17	18.26	18.33	18.17		
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.41	23.45	23.40	23.38	23.41	23.38	25	0
15	QPSK	1	37	23.31	23.41	23.28	23.37	23.38	23.23		
15	QPSK	1	74	23.41	23.47	23.38	23.33	23.41	23.33		
15	QPSK	50	0	22.36	22.48	22.36	22.34	22.48	22.34		
15	QPSK	50	20	22.27	22.33	22.20	22.28	22.33	22.20	24	1
15	QPSK	50	49	22.21	22.26	22.17	22.22	22.26	22.17		
15	QPSK	75	0	22.26	22.36	22.22	22.28	22.36	22.22	24	1
15	16QAM	1	0	22.22	22.39	22.22	22.28	22.39	22.22		
15	16QAM	1	37	22.12	22.26	22.12	22.14	22.26	22.14		
15	16QAM	1	74	22.13	22.23	22.08	22.14	22.23	22.08		
15	16QAM	50	20	21.26	21.47	21.39	21.29	21.47	21.39	23	2
15	16QAM	50	49	21.28	21.37	21.14	21.26	21.37	21.14		
15	16QAM	50	36	21.27	21.35	21.20	21.30	21.27	21.20	23	2
15	16QAM	50	74	21.29	21.31	21.16	21.26	21.31	21.16		
15	16QAM	1	0	21.11	21.20	21.00	21.26	21.20	21.00		
15	16QAM	1	37	21.10	21.24	21.16	21.18	21.24	21.16		
15	16QAM	1	74	21.13	21.18	21.05	21.13	21.18	21.05	22	3
15	16QAM	50	20	20.28	20.30	20.22	20.26	20.30	20.22		
15	16QAM	50	20	20.13	20.22	20.14	20.20	20.22	20.14		
15	16QAM	50	20	20.26	20.34	20.24	20.28	20.34	20.24		
15	16QAM	75	0	20.19	20.26	20.14	20.20	20.26	20.14	20	5
15	256QAM	1	0	18.26	18.30	18.22	18.26	18.30	18.22		
15	256QAM	1	37	18.13	18.38	18.37	18.23	18.37	18.23		
15	256QAM	1	74	18.28	18.28	18.32	18.23	18.28	18.32		
15	256QAM	50	20	18.26	18.26	18.25	18.16	18.26	18.25	20	5
15	256QAM	50	20	18.08	18.15	18.11	18.13	18.15	18.11		
15	256QAM	50	36	18.11	18.22	18.08	18.12	18.22	18.08		
15	256QAM	50	74	18.27	18.27	18.30	18.17	18.27	18.30		
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.50	23.53	23.46	23.50	23.53	23.46	25	0
5	QPSK	1	25	23.34	23.36	23.31	23.34	23.36	23.31		
5	QPSK	1	50	23.45	23.47	23.41	23.45	23.47	23.41		
5	QPSK	25	0	22.34	22.45	22.36	22.37	22.45	22.36		
5	QPSK	25	12	22.31	22.33	22.22	22.23	22.33	22.22	24	1
5	QPSK	25	37	22.30	22.36	22.22	22.21	22.36	22.21		
5	QPSK	50	0	22.33	22.37	22.21	22.29	22.37	22.29	24	1
5	16QAM	1	0	22.21	22.44	22.24	22.24	22.44	22.24		
5	16QAM	1	25	22.13	22.26	22.29	22.29	22.26	22.29		
5	16QAM	1	49	22.12	22.24	22.14	22.21	22.24	22.14		
5	16QAM	25	0	21.26	21.43	21.29	21.31	21.43	21.29	23	2
5	16QAM	25	12	21.23	21.32	21.13	21.25	21.32	21.13		
5	16QAM	25	25	21.25	21.32	21.23	21.27	21.32	21.23	22	3
5	16QAM	50	0	20.29	20.36	20.20	20.29	20.36	20.20		
5	16QAM	50	12	20.28	20.34	20.22	20.29	20.34	20.22		
5	16QAM	50	0	20.19	20.27	20.17	20.21	20.27	20.17		
5	16QAM	1	0	18.21	18.26	18.16	18.21	18.26	18.16	20	5
5	256QAM	1	25	18.14	18.35	18.33	18.15	18.35	18.33		
5	256QAM	1	49	18.32	18.33	18.25	18.19	18.33	18.25		
5	256QAM	1	74	18.21	18.21	18.25	18.16	18.21	18.25		
5	256QAM	25	12	18.15	18.24	18.11	18.23	18.24	18.11	20	5
5	256QAM	25	25	18.21	18.28	18.20	18.07	18.28	18.20		
5	256QAM	50	0	18.21	18.18	18.05	18.05	18.18	18.05		
5	256QAM	50	12	18.25	18.25	18.31	18.17	18.25	18.31		
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.37	23.50	23.38	23.37	23.50	23.38	25	0
5	QPSK	1	12	23.26	23.36	23.34	23.27	23.36	23.34		
5	QPSK	1	24	23.40	23.43	23.32	23.35	23.43	23.32		
5	QPSK	12	0	22.27	22.30	22.41	22.24	22.30	22.41		
5	QPSK	12	7	22.29	22.33	22.29	22.43	22.33	22.29	24	1
5	QPSK	12	19	22.28	22.31	22.22	22.35	22.31	22.22		
5	QPSK	25	0	22.32	22.38	22.24	22.24	22.38	22.24	24	1
5	16QAM	1	0	22.28	22.44	22.30	22.24	22.44	22.30		
5	16QAM	1	12	22.19	22.24	22.13	22.19	22.24	22.13		
5	16QAM	1	24	22.11	22.19	22.10	22.11	22.19	22.10		
5	16QAM	25	0	21.23	21.40	21.26	21.26	21.40	21.26	23	2
5	16QAM	25	7	21.28	21.31	21.21	21.25	21.31	21.21		
5	16QAM	12	13	21.28	21.35	21.13	21.30	21.35	21.13	23	2
5	16QAM	1	0	21.13	21.22	21.05	21.16	21.22	21.05		
5	16QAM	1	12	21.16	21.19	21.15	21.24	21.19	21.15		
5	16QAM	1	24	21.19	21.17	21.17	21.17	21.17	21.17		
5	16QAM	12	0	20.26	20.42	20.30	20.21	20.42	20.30	20	5
5	16QAM	25	0	20.29	20.27	20.13	20.23	20.27	20.13		
5	16QAM	25	13	20.30	20.36	20.30	20.24	20.36	20.30		
5	16QAM	25	0	20.22	20.30	20.12	20.13	20.30	20.12		
5	256QAM	1	0	18.26	18.26	18.25	18.16	18.26	18.25	20	5
5	256QAM	1	12	18.21	18.42	18.32	18.20	18.42	18.32		
5	256QAM	1	24	18.34	18.32	18.21	18.19	18.32	18.21		
5	256QAM	1	74	18.22	18.23	18.17	18.13	18.23	18.17		
5	256QAM	12	7	18.09	18.20	18.15	18.20	18.20	18.15	20	5
5	256QAM	12	13	18.22	18.26	18.13	18.11	18.26	18.13		
5	256QAM	18	0	18.25	18.25	18.31	18.17	18.25	18.31		
5	256QAM	18	7	18.25	18.25	18.31	18.17	18.25	18.31		

GSM1900 Ant2 Default									
GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		29.89	29.95	29.93	31.00	20.89	20.95	20.93	22.00
GPRS 1 Tx slot		29.92	30.01	29.95	31.00	20.92	21.01	20.95	22.00
GPRS 2 Tx slots		27.08	27.11	27.03	28.00	21.08	21.11	21.03	22.00
GPRS 3 Tx slots		25.21	25.34	25.26	26.20	20.95	21.08	21.00	21.94
GPRS 4 Tx slots		23.92	24.02	23.90	25.00	20.82	21.02	20.90	22.00
EDGE 1 Tx slot		26.15	26.26	26.18	27.00	17.15	17.26	17.18	18.00
EDGE 2 Tx slots		23.36	23.44	23.35	24.00	17.36	17.44	17.35	18.00
EDGE 3 Tx slots		21.53	21.56	21.50	22.20	17.27	17.30	17.24	17.94
EDGE 4 Tx slots		20.54	20.68	20.60	21.00	17.54	17.68	17.60	18.00

		WCDMA II Ant2 Default				WCDMA IV Ant2 Default			
Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1728.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	23.47	23.56	23.53	25.00	23.43	23.55	23.49	25.00
3GPP Rel 99	RMC 12.2Kbps	23.50	23.61	23.56	25.00	23.50	23.57	23.52	25.00
3GPP Rel 6	HSDPA Subtest-1	22.48	22.69	22.63	24.00	22.52	22.58	22.59	24.00
3GPP Rel 6	HSDPA Subtest-2	22.54	22.53	22.56	24.00	22.57	22.60	22.55	24.00
3GPP Rel 6	HSDPA Subtest-3	22.09	22.11	22.02	23.50	22.07	22.16	22.02	23.50
3GPP Rel 6	HSDPA Subtest-4	22.00	22.02	22.00	23.50	21.94	22.01	22.03	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.56	22.53	22.57	24.00	22.54	22.59	22.50	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.48	22.55	22.46	24.00	22.47	22.55	22.43	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.86	22.05	21.93	23.50	21.94	22.08	21.93	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.90	22.02	21.96	23.50	21.82	21.96	21.93	23.50
3GPP Rel 6	HSUPA Subtest-1	22.34	22.47	22.50	24.00	22.41	22.49	22.50	24.00
3GPP Rel 6	HSUPA Subtest-2	20.56	20.65	20.56	22.00	20.56	20.64	20.57	22.00
3GPP Rel 6	HSUPA Subtest-3	21.62	21.71	21.68	23.00	21.62	21.63	21.60	23.00
3GPP Rel 6	HSUPA Subtest-4	20.46	20.50	20.51	22.00	20.46	20.59	20.42	22.00
3GPP Rel 6	HSUPA Subtest-5	22.39	22.60	22.42	24.00	22.40	22.59	22.45	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.07	20.14	20.08	21.50	20.11	20.21	20.06	21.50



Band 2 Main PA Ant2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	23.54	23.60	23.67	25	0						
20	QPSK	1	49	23.48	23.51	23.45								
20	QPSK	1	99	23.40	23.47	23.45	24	1						
20	QPSK	50	0	22.64	22.70	22.72								
20	QPSK	50	24	22.57	22.69	22.58	24	1						
20	QPSK	50	50	22.52	22.66	22.59								
20	QPSK	100	0	22.62	22.75	22.71	24	1						
20	16QAM	100	0	22.91	22.99	22.89								
20	16QAM	1	49	22.87	22.73	22.81	23	2						
20	16QAM	1	99	22.80	22.89	22.82								
20	16QAM	50	0	21.80	21.73	21.82	23	2						
20	16QAM	50	24	21.72	21.72	21.57								
20	16QAM	50	50	21.67	21.74	21.81	22	3						
20	16QAM	100	0	21.65	21.75	21.81								
20	84QAM	1	0	21.81	21.94	21.84	23	2						
20	84QAM	1	49	21.78	21.88	21.78								
20	84QAM	1	99	21.81	21.90	21.83	22	3						
20	84QAM	50	24	20.58	20.70	20.61								
20	84QAM	50	50	20.59	20.67	20.55	20	5						
20	256QAM	100	0	20.59	20.69	20.55								
20	256QAM	1	49	18.58	18.83	18.77	20	5						
20	256QAM	1	99	18.70	18.80	18.70								
20	256QAM	50	0	18.59	18.76	18.72	20	5						
20	256QAM	50	24	18.67	18.80	18.54								
20	256QAM	50	50	18.50	18.60	18.45	20	5						
20	256QAM	100	0	18.50	18.60	18.45								
Channel														
Frequency (MHz)														
18	QPSK	1	0	18.57	18.60	18.60	25	0						
18	QPSK	1	49	18.43	18.49	18.40								
18	QPSK	1	99	18.34	18.41	18.35	24	1						
18	QPSK	36	0	22.58	22.69	22.68								
18	QPSK	36	36	22.48	22.60	22.48	24	1						
18	QPSK	36	39	22.48	22.57	22.49								
18	16QAM	75	0	22.57	22.69	22.59	24	1						
18	16QAM	1	23	22.84	22.77	22.71								
18	16QAM	1	37	22.58	22.67	22.49	23	2						
18	16QAM	1	74	22.80	22.81	22.62								
18	16QAM	36	0	21.97	21.99	21.50	22	3						
18	16QAM	36	20	21.56	21.61	21.55								
18	16QAM	36	39	21.59	21.60	21.47	22	3						
18	16QAM	75	0	21.53	21.61	21.55								
18	84QAM	1	0	21.72	21.84	21.77	23	2						
18	84QAM	1	37	21.63	21.82	21.64								
18	84QAM	1	74	21.72	21.75	21.75	22	3						
18	84QAM	36	0	20.71	20.64	20.61								
18	84QAM	36	20	20.48	20.58	20.47	20	5						
18	84QAM	36	39	20.48	20.53	20.45								
18	84QAM	75	0	20.49	20.60	20.46	20	5						
18	256QAM	1	0	18.66	18.80	18.66								
18	256QAM	1	37	18.48	18.58	18.47	20	5						
18	256QAM	1	74	18.58	18.70	18.58								
18	256QAM	36	0	18.52	18.60	18.45	20	5						
18	256QAM	36	20	18.52	18.64	18.40								
18	256QAM	36	39	18.41	18.54	18.38	20	5						
18	256QAM	75	0	18.52	18.60	18.57								
Channel														
Frequency (MHz)														
18	QPSK	1	0	18.57	18.60	18.60	25	0						
18	QPSK	1	25	23.34	23.41	23.35								
18	QPSK	1	49	23.29	23.42	23.31	24	1						
18	QPSK	12	0	22.56	22.67	22.54								
18	QPSK	25	12	22.44	22.65	22.40	24	1						
18	QPSK	25	25	22.48	22.53	22.47								
18	16QAM	1	0	22.84	22.94	22.79	24	1						
18	16QAM	1	25	22.63	22.69	22.52								
18	16QAM	1	49	22.76	22.78	22.69	23	2						
18	16QAM	12	0	21.52	21.64	21.51								
18	16QAM	12	7	21.49	21.66	21.43	23	2						
18	16QAM	12	13	21.57	21.60	21.50								
18	16QAM	25	0	21.53	21.64	21.52	23	2						
18	84QAM	1	0	21.66	21.86	21.75								
18	84QAM	1	12	21.71	21.79	21.70	22	3						
18	84QAM	1	24	21.74	21.82	21.80								
18	84QAM	12	0	20.61	20.74	20.69	22	3						
18	84QAM	12	7	20.51	20.62	20.54								
18	84QAM	12	13	20.53	20.54	20.43	20	5						
18	84QAM	25	0	20.56	20.67	20.41								
18	256QAM	1	0	18.71	18.75	18.63	20	5						
18	256QAM	1	12	18.50	18.59	18.49								
18	256QAM	1	24	18.59	18.73	18.63	20	5						
18	256QAM	12	0	18.84	18.70	18.64								
18	256QAM	12	7	18.54	18.53	18.48	20	5						
18	256QAM	12	13	18.54	18.54	18.42								
18	256QAM	25	0	18.46	18.56	18.51	20	5						
18	256QAM	25	12	18.46	18.56	18.41								
Channel														
Frequency (MHz)														
3	QPSK	1	0	23.47	23.50	23.38	25	0						
3	QPSK	1	24	23.40	23.39	23.28								
3	QPSK	1	49	23.32	23.37	23.26	24	1						
3	QPSK	8	0	22.57	22.62	22.68								
3	QPSK	8	4	22.44	22.60	22.49	24	1						
3	QPSK	15	0	22.59	22.69	22.64								
3	16QAM	1	0	22.83	22.88	22.84	24	1						
3	16QAM	1	24	22.69	22.77	22.64								
3	16QAM	8	0	21.46	21.68	21.49	23	2						
3	16QAM	8	4	21.42	21.68	21.42								
3	84QAM	8	7	21.61	21.64	21.48	23	2						
3	84QAM	1	0	21.52	21.66	21.58								
3	84QAM	1	24	21.76	21.82	21.79	23	2						
3	84QAM	1	8	21.69	21.74	21.71								
3	84QAM	1	14	21.72	21.84	21.71	23	2						
3	84QAM	8	4	20.47	20.56	20.48								
3	84QAM	8	7	20.44	20.57	20.44	20	5						
3	84QAM	15	0	20.47	20.58	20.46								
3	256QAM	1	0	18.76	18.77	18.72	20	5						
3	256QAM	1	8	18.62	18.73	18.65								
3	256QAM	1	14	18.62	18.72	18.65	20	5						
3	256QAM	8	0	18.59	18.68	18.68								
3	256QAM	8	4	18.54	18.63	18.48	20	5						
3	256QAM	8	7	18.41	18.55	18.41								
3	256QAM	15	0	18.52	18.64	18.57	20	5						
3	256QAM	15	8	18.52	18.64	18.47								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	23.46	23.52	23.41	25	0						
1.4	QPSK	1	24	23.40	23.39	23.33								
1.4	QPSK	1	49	23.30	23.35	23.21	24	1						
1.4	QPSK	3	0	23.41	23.49	23.35								
1.4	QPSK	3	4	23.44	23.48	23.34	24	1						
1.4	QPSK	3	25	23.24	23.34	23.24								
1.4	QPSK	6	0	22.57	22.69	22.67	24	1						
1.4	16QAM	1	0	22.56	22.71	22.68								
1.4	16QAM	1	24	22.66	22.66	22.56	23	2						
1.4	16QAM	1	75	22.48	22.60	22.56								
1.4	16QAM	1	3	22.52	22.58	22.53	23	2						
1.4	16QAM	3	0	21.62	21.71	21.48								
1.4	16QAM	3	2	21.52	21.68	21.52	23	2						
1.4	16QAM	3	24	21.74	21.85	21.73								
1.4	84QAM	3	1	21.66	21.78	21.72	22	3						
1.4	84QAM	3	2	21.79	21.79	21.79								
1.4	84QAM	6	0	20.61	20.75	20.69	22	3						
1.4	84QAM	1	0	18.69	18.73	18.69								
1.4	84QAM	1	8	18.67	18.73	18.67	20	5						
1.4	84QAM	3	0	18.54	18.55	18.44								
1.4	256QAM	3	3	18.47	18.53	18.31	20	5						
1.4	256QAM	3	6	18.54	18.55	18.44								
Channel														
Frequency (MHz)														

Band 25 Main PA Ant2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 20145	Power Middle Ch./Freq. 20145	Power High Ch./Freq. 20145	Time-up (dB)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	23.53	23.60	23.60	25	0						
20	QPSK	1	49	23.50	23.43	23.38								
20	QPSK	1	99	23.40	23.51	23.46								
20	QPSK	50	0	22.59	22.73	22.88								
20	QPSK	50	24	22.57	22.47	22.84								
20	QPSK	50	50	22.84	22.70	22.84	24	1						
20	QPSK	100	0	22.56	22.67	22.56								
20	16QAM	1	0	22.50	22.50	22.50								
20	16QAM	1	49	22.47	22.59	22.50								
20	16QAM	1	99	22.59	22.63	22.67								
20	16QAM	50	0	21.70	21.62	21.77	24	1						
20	16QAM	50	24	21.56	21.60	21.54								
20	16QAM	50	50	21.86	21.73	21.87								
20	16QAM	100	0	21.62	21.69	21.59								
20	16QAM	1	0	21.79	21.84	21.78								
20	64QAM	1	49	21.84	21.78	21.70	23	2						
20	64QAM	1	99	21.84	21.91	21.80								
20	64QAM	50	0	20.55	20.69	20.67								
20	64QAM	50	24	20.57	20.66	20.58								
20	64QAM	50	50	20.41	20.71	20.67								
20	64QAM	100	0	20.56	20.68	20.59	22	3						
20	256QAM	1	0	18.73	18.66	18.72								
20	256QAM	1	49	18.66	18.72	18.59								
20	256QAM	1	99	18.71	18.75	18.66								
20	256QAM	50	0	18.54	18.60	18.58								
20	256QAM	50	24	18.56	18.60	18.57	20	5						
20	256QAM	50	50	18.60	18.68	18.61								
20	256QAM	100	0	18.63	18.60	18.60								
Channel														
Frequency (MHz)														
15	QPSK	1	0	23.45	23.61	23.56	25	0						
15	QPSK	1	37	23.41	23.50	23.61								
15	QPSK	1	74	23.35	23.40	23.39								
15	QPSK	36	0	22.48	22.70	22.62								
15	QPSK	36	20	22.45	22.39	22.59								
15	QPSK	36	39	22.59	22.62	22.57	24	1						
15	QPSK	75	0	22.49	22.57	22.43								
15	16QAM	1	0	22.36	22.52	22.42								
15	16QAM	1	37	22.41	22.49	22.42								
15	16QAM	36	0	21.59	22.02	22.01								
15	16QAM	36	0	21.72	21.73	21.64	23	2						
15	16QAM	56	20	21.44	21.53	21.46								
15	16QAM	36	39	21.54	21.67	21.54								
15	16QAM	75	0	21.50	21.57	21.50								
15	64QAM	1	0	21.72	21.73	21.64								
15	64QAM	1	37	21.54	21.60	21.57	23	2						
15	64QAM	1	74	21.71	21.81	21.73								
15	64QAM	36	0	20.44	20.55	20.46								
15	64QAM	36	20	20.49	20.50	20.45								
15	64QAM	36	39	20.47	20.57	20.55								
15	64QAM	75	0	20.43	20.61	20.43	22	3						
15	256QAM	1	0	18.64	18.71	18.62								
15	256QAM	1	37	18.54	18.60	18.45								
15	256QAM	1	74	18.63	18.70	18.52								
15	256QAM	36	0	18.53	18.55	18.58								
15	256QAM	36	20	18.51	18.50	18.47	20	5						
15	256QAM	36	39	18.48	18.53	18.53								
15	256QAM	75	0	18.56	18.55	18.42								
Channel														
Frequency (MHz)														
10	QPSK	1	0	23.43	23.52	23.51	25	0						
10	QPSK	1	25	23.45	23.57	23.47								
10	QPSK	1	49	23.37	23.45	23.38								
10	QPSK	25	0	22.47	22.60	22.60								
10	QPSK	25	12	22.54	22.61	22.58								
10	QPSK	25	25	22.50	22.66	22.53	24	1						
10	QPSK	50	0	22.48	22.67	22.48								
10	16QAM	1	0	22.38	22.50	22.49								
10	16QAM	1	25	22.33	22.55	22.42								
10	16QAM	25	0	21.53	21.60	21.54								
10	16QAM	25	12	21.45	21.57	21.51	23	2						
10	16QAM	50	0	21.60	21.67	21.54								
10	16QAM	50	0	21.54	21.57	21.54								
10	64QAM	1	0	21.67	21.73	21.70								
10	64QAM	1	25	21.53	21.60	21.63								
10	64QAM	1	49	21.81	21.83	21.72	22	3						
10	64QAM	25	0	20.47	20.59	20.46								
10	64QAM	25	12	20.42	20.51	20.48								
10	64QAM	25	25	20.55	20.60	20.61								
10	64QAM	50	0	20.41	20.63	20.46								
10	256QAM	1	0	18.65	18.71	18.58	20	5						
10	256QAM	1	25	18.63	18.64	18.51								
10	256QAM	1	49	18.67	18.62	18.51								
10	256QAM	25	0	18.51	18.52	18.57								
10	256QAM	25	12	18.45	18.52	18.30								
10	256QAM	25	25	18.50	18.50	18.57	20	5						
10	256QAM	50	0	18.49	18.60	18.48								
Channel														
Frequency (MHz)														
5	QPSK	1	0	23.43	23.52	23.51	25	0						
5	QPSK	1	12	23.45	23.53	23.50								
5	QPSK	1	24	23.33	23.39	23.41								
5	QPSK	12	0	22.50	22.64	22.62								
5	QPSK	12	7	22.43	22.52	22.59								
5	QPSK	12	13	22.57	22.64	22.51	24	1						
5	QPSK	25	0	22.48	22.64	22.50								
5	16QAM	1	0	22.48	22.53	22.51								
5	16QAM	1	12	22.35	22.47	22.38								
5	16QAM	1	24	22.50	22.62	22.51								
5	16QAM	12	0	21.60	21.73	21.62	23	2						
5	16QAM	12	7	21.41	21.57	21.50								
5	16QAM	12	14	21.54	21.62	21.52								
5	16QAM	25	0	21.47	21.54	21.49								
5	64QAM	1	0	21.74	21.76	21.73								
5	64QAM	1	12	21.59	21.68	21.61	23	2						
5	64QAM	1	24	21.77	21.80	21.74								
5	64QAM	12	0	20.52	20.62	20.48								
5	64QAM	12	7	20.50	20.57	20.54								
5	64QAM	12	13	20.56	20.67	20.55								
5	64QAM	25	0	20.51	20.66	20.49	22	3						
5	256QAM	1	0	18.60	18.71	18.50								
5	256QAM	1	12	18.58	18.63	18.48								
5	256QAM	1	24	18.60	18.66	18.57								
5	256QAM	12	0	18.54	18.55	18.58								
5	256QAM	12	7	18.41	18.52	18.50	20	5						
5	256QAM	12	13	18.55	18.60	18.50								
5	256QAM	25	0	18.55	18.55	18.50								
Channel					20147		20149		Time-up (dB)	MPR (dB)				
Frequency (MHz)					1807		1913							
3	QPSK	1	0	23.50	23.57	23.49	25	0						
3	QPSK	1	12	23.45	23.53	23.45								
3	QPSK	1	14	23.32	23.41	23.43								
3	QPSK	8	0	22.46	22.61	22.64								
3	QPSK	8	7	22.50	22.59	22.58								
3	QPSK	8	7	22.59	22.66	22.55	24	1						
3	QPSK	16	0	22.53	22.58	22.51								
3	QPSK	16	7	22.52	22.53	22.43								
3	16QAM	1	0	22.33	22.45	22.48								
3	16QAM	1	14	22.48	22.55	22.49								
3	16QAM	1	14	22.52	22.74	22.71	23	2						
3	16QAM	8	4	21.41	21.56	21.51								
3	16QAM	8	7	21.62	21.58	21.61								
3	16QAM	8	7	21.50	21.66	21.55								
3	16QAM	1	0	21.66	21.77	21.64								
3	16QAM	1	8	21.63	21.63	21.63	22	3						
3	16QAM	8	4	20.49	20.60	20.49								
3	16QAM	8	4	20.49	20.58	20.47								
3	16QAM	16	0	20.43	20.54	20.47								
3	16QAM	1	0	18.63	18.76	18.69								
3	16QAM	1	8	18.56	18.65	18.58	20	5						
3	16QAM	1	14	18.63	18.63	18.61								
3	16QAM	8	4	18.47	18.57	18.50								
3	16QAM	8	4	18.48	18.57	18.53								
3	16QAM	8	7	18.57	18.55	18.46								
Channel					20147		20149		Time-up (dB)	MPR (dB)				
Frequency (MHz)					1807		1913							
1.4	QPSK	1	0	23.46	23.52	23.49	25	0						
1.4	QPSK	1	8	23.45	23.51	23.45								
1.4	QPSK	1	8	23.27	23.44	23.41								
1.4	QPSK	3	0	22.57	22.68	22.68								
1.4	QPSK	3	0	23.43	23.54	23.43								
1.4	QPSK	3	8	23.28	23.45	23.34	24	1						
1.4	QPSK	3	8	23.40	23.53	23.37								
1.4	16QAM	1	0	22.53	22.59	22.52								
1.4	16QAM	1	8	22.55	22.68	22.58								
1.4	16QAM	3	0	22.38	22.48	22.49								
1.4	16QAM	3	1	22.35	22.45	22.44	23	2						
1.4	16QAM	3	8	22.51	22.60	22.45								
1.4	16QAM	8	0	21.57	21.78	21.69								
1.4	16QAM	8	1	21.53	21.54	21.51								
1.4	16QAM	8	8	21.59	21.67	21.64								
1.4	16QAM	1	0	21.51	21.50	21.54	23	2						
1.4	16QAM	3	8	21.70	21.76	21.75								
1.4	16QAM	3	8	21.79	21.87	21.80								
1.4	16QAM	8	0	21.73	21.81	21.68								
1.4	16QAM	8	0	20.43	20.62	20.50								
1.4	16QAM	8	8	20.56	20.77	20.68	22	3						
1.4	16QAM	3	8	19.55	19.63	19.48								
1.4	16QAM	1	0	18.60	18.67	18.53								
1.4	16QAM	1	8	18.56	18.57	18.54								
1.4	16QAM	3	8	18.52	18.54	18.47								
1.4	16QAM	3	8	18.59	18.59	18.50	20	5						
1.4	16QAM	8	0	18.56	18.60	18.50								

Band 38 Main PA Ant2									
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Co-Freq [dBm]	Power High Co-Freq [dBm]	Power Power High [dBm]	Turn-up test (dBm)	MPE (dB)	
Channel									
Frequency (MHz)				37660	38000	38100			
				-20.0	-20.0	-20.0			
20	QPSK	1	0	25.08	25.18	25.23	25.5	0	
20	QPSK	1	49	25.08	25.15	25.10			
20	QPSK	1	99	24.92	24.83	24.82			
20	QPSK	50	24	24.17	24.27	24.21	24.5	1	
20	QPSK	50	50	24.15	24.20	24.13			
20	QPSK	100	0	24.17	24.23	24.17			
20	16QAM	1	0	23.16	23.23	23.08			
20	16QAM	1	49	23.16	23.17	23.14	24.5	1	
20	16QAM	1	99	23.02	23.17	23.06			
20	16QAM	50	0	23.19	23.27	23.22			
20	16QAM	50	50	23.32	23.31	23.11	23.5	2	
20	16QAM	50	99	23.06	23.21	23.27			
20	16QAM	100	0	22.23	22.28	22.11			
20	16QAM	100	50	22.23	22.28	22.11			
20	16QAM	100	99	22.08	22.21	22.04	23.5	2	
20	64QAM	1	0	22.81	22.91	22.84			
20	64QAM	1	99	22.71	22.86	22.76			
20	64QAM	1	149	22.52	22.77	22.51	22.5	3	
20	64QAM	50	24	22.08	22.22	22.08			
20	64QAM	50	49	22.08	22.22	22.19			
20	64QAM	100	0	22.10	22.22	22.10			
20	256QAM	1	0	20.26	20.30	20.24	20.5	5	
20	256QAM	1	49	20.15	20.23	20.13			
20	256QAM	1	99	20.18	20.24	20.12			
20	256QAM	50	0	20.14	20.26	20.17			
20	256QAM	50	50	20.14	20.26	20.17	20.5	5	
20	256QAM	50	99	20.08	20.20	20.10			
Channel									
Frequency (MHz)				37660	38000	38100			
				-24.7	-25.0	-24.7			
15	QPSK	1	0	25.18	25.22	25.13	25.5	0	
15	QPSK	1	49	25.05	25.11	25.06			
15	QPSK	1	99	24.98	24.94	24.90			
15	QPSK	1	149	24.15	24.18	24.18	24.5	1	
15	QPSK	36	20	24.04	24.04	24.00			
15	QPSK	36	24	24.08	24.08	24.04			
15	QPSK	75	0	24.08	24.09	24.13	24.5	1	
15	16QAM	1	0	23.11	23.15	23.02			
15	16QAM	1	49	23.11	23.12	23.04	24.5	1	
15	16QAM	1	99	22.92	23.00	22.90			
15	16QAM	36	0	23.15	23.17	23.14			
15	16QAM	36	20	23.13	23.12	23.02	23.5	2	
15	16QAM	36	24	23.18	23.18	23.22			
15	16QAM	75	0	23.14	23.15	23.22			
15	16QAM	75	49	22.71	22.79	22.76			
15	64QAM	1	0	22.72	22.82	22.76	23.5	2	
15	64QAM	1	49	22.72	22.77				
15	64QAM	1	99	22.52	22.77				
15	64QAM	50	24	22.08	22.22	22.08	22.5	3	
15	64QAM	50	49	22.08	22.22	22.19			
15	64QAM	100	0	22.04	22.14	22.07			
15	64QAM	100	50	22.04	22.14	22.07			
15	256QAM	1	0	20.26	20.30	20.24	20.5	5	
15	256QAM	1	49	20.15	20.23	20.13			
15	256QAM	1	99	20.18	20.24	20.12			
15	256QAM	50	0	20.14	20.26	20.17			
15	256QAM	50	50	20.14	20.26	20.17	20.5	5	
15	256QAM	50	99	20.08	20.20	20.10			
Channel									
Frequency (MHz)				37776	38000	38228			
				-20.7	-20.0	-20.7			
5	QPSK	1	0	24.99	25.17	25.13	25.5	0	
5	QPSK	1	12	24.99	25.14	24.97			
5	QPSK	12	0	24.99	25.17	25.13			
5	QPSK	12	0	24.19	24.20	24.14			
5	QPSK	12	7	24.04	24.18	24.11			
5	QPSK	12	14	24.05	24.08	24.08	24.5	1	
5	QPSK	26	0	24.07	24.15	24.00			
5	16QAM	1	0	23.10	23.12	23.02			
5	16QAM	1	12	23.09	23.09	23.00	24.5	1	
5	16QAM	1	24	22.94	23.10	22.87			
5	16QAM	12	0	23.12	23.12	23.12			
5	16QAM	12	7	23.03	23.18	23.06	23.5	2	
5	16QAM	12	13	23.19	23.20	23.20			
5	16QAM	26	0	23.12	23.12	23.04			
5	64QAM	1	0	22.70	22.78	22.73			
5	64QAM	1	12	22.73	22.80	22.76	23.5	2	
5	64QAM	1	24	22.18	22.18	22.08			
5	64QAM	12	13	22.00	22.16	22.00	22.5	3	
5	64QAM	26	0	22.06	22.12	22.05			
5	256QAM	1	0	20.16	20.18	20.02	20.5	5	
5	256QAM	1	12	20.10	20.11	20.01			
5	256QAM	12	0	20.11	20.11	20.09			
5	256QAM	12	7	19.82	20.03	19.97	20.5	5	
5	256QAM	12	13	20.01	20.16	20.07			
5	256QAM	26	0	19.99	20.00	19.88			

Band 41 Main PA Ant2											
RF [MHz]	Modulation	RB Size	PR Offset	Power Low Power Co. [Frac]	Power Low Power Co. [Frac]	Power Phase Mod. Co. [Frac]	Power Phase Mod. Co. [Frac]	Power High Power Co. [Frac]	Time-up time (dBm)	MPE (dB)	
Channel				39970	40165	40600	41000	41400			
Frequency (MHz)				2560	2569.5	2593	2638	2680			
20	QPSK	1	0	25.04	25.20	25.24	25.25	25.12	25.5	0	
20	QPSK	1	40	25.15	25.23	25.31	25.23	25.17			
20	QPSK	50	24	25.23	25.24	25.31	25.24	25.18			
20	QPSK	50	24	25.24	25.27	25.34	25.28	25.12			
20	QPSK	50	50	25.19	24.28	24.34	24.30	24.24	24.5	1	
20	QPSK	50	50	24.19	24.25	24.30	24.26	24.20			
20	16QAM	1	0	25.18	25.27	25.34	25.32	25.15			
20	16QAM	1	40	25.09	25.09	25.26	25.09	25.15	24.5	1	
20	16QAM	50	24	25.14	25.13	25.34	25.14	25.15			
20	16QAM	50	24	25.27	25.36	25.38	25.34	25.28	23.5	2	
20	16QAM	100	0	25.18	25.26	25.37	25.25	25.22			
20	16QAM	100	40	25.03	25.00	25.23	25.03	25.03			
20	16QAM	1	40	25.04	25.27	25.38	25.02	25.02	23.5	2	
20	16QAM	50	99	25.09	25.02	25.02	25.07	25.02			
20	16QAM	50	99	25.09	25.20	25.22	25.09	25.21			
20	16QAM	50	24	25.09	25.25	25.28	25.20	25.15	22.5	3	
20	16QAM	50	24	25.22	25.26	25.28	25.20	25.16			
20	16QAM	100	0	25.21	25.23	25.27	25.20	25.22			
20	256QAM	1	0	25.27	25.33	25.36	25.41	25.20	20.5	5	
20	256QAM	1	40	25.24	25.33	25.35	25.38	25.25			
20	256QAM	1	99	25.21	25.35	25.36	25.22	25.24			
20	256QAM	50	0	25.20	25.22	25.32	25.20	25.14			
20	256QAM	50	40	25.19	25.24	25.34	25.20	25.21	20.5	5	
20	256QAM	50	50	25.13	25.21	25.29	25.18	25.14			
20	256QAM	100	0	25.25	25.25	25.35	25.25	25.15			
Channel				39970	40173	40600	41000	41415			
Frequency (MHz)				2560	2563	2593	2637	2683			
15	QPSK	1	0	25.05	25.25	25.25	25.25	25.03			
15	QPSK	1	37	24.90	25.05	25.15	25.20	25.03	26	0	
15	QPSK	1	74	25.08	25.16	25.19	25.12	25.06			
15	QPSK	50	24	24.24	24.34	24.34	24.21	24.30			
15	QPSK	50	24	24.19	24.12	24.34	24.25	24.18	24.5	1	
15	QPSK	50	24	24.14	24.24	24.34	24.20	24.11			
15	QPSK	50	24	24.16	24.19	24.34	24.24	24.11			
15	16QAM	1	0	25.07	25.22	25.23	25.09	25.07	24.5	1	
15	16QAM	1	40	25.05	25.20	25.21	25.08	25.07			
15	16QAM	1	74	25.01	25.01	25.20	25.18	25.08			
15	16QAM	50	0	25.21	25.26	25.28	25.23	25.19	23.5	2	
15	16QAM	50	40	25.19	25.24	25.34	25.20	25.21			
15	16QAM	50	50	25.13	25.21	25.29	25.18	25.14	22.5	3	
15	16QAM	100	0	25.25	25.25	25.35	25.25	25.15			
15	16QAM	100	40	25.12	25.18	25.28	25.14	25.07			
15	256QAM	1	0	25.20	25.23	25.25	25.38	25.20			
15	256QAM	1	37	24.99	25.09	25.20	25.27	25.07	20.5	5	
15	256QAM	1	74	25.07	25.17	25.22	25.10	25.05			
15	256QAM	50	24	24.23	24.33	24.33	24.20	24.29			
15	256QAM	50	24	24.18	24.12	24.35	24.12	24.21	24.5	1	
15	256QAM	50	24	24.14	24.24	24.34	24.20	24.11			
15	256QAM	50	24	24.16	24.19	24.34	24.24	24.11			
15	16QAM	1	0	25.04	25.15	25.22	25.17	25.11			
15	16QAM	1	40	25.06	25.21	25.22	25.09	25.08	24.5	1	
15	16QAM	1	40	25.03	25.09	25.22	25.18	25.11			
15	16QAM	50	0	25.23	25.30	25.37	25.18	25.16			
15	16QAM	50	40	25.14	25.17	25.31	25.14	25.06	23.5	2	
15	16QAM	50	26	25.21	25.31	25.31	25.20	25.17			
15	16QAM	50	26	25.08	25.19	25.20	25.11	25.20			
15	16QAM	1	0	25.05	25.20	25.23	25.05	25.03	23.5	2	
15	16QAM	1	25	25.01	25.22	25.25	25.25	25.03			
15	16QAM	1	25	25.01	25.22	25.25	25.25	25.03			
15	16QAM	50	0	25.13	25.25	25.32	25.26	25.12			
15	16QAM	25	0	25.03	25.17	25.23	25.13	25.02	22.5	3	
15	16QAM	25	12	25.12	25.19	25.27	25.14	25.03			
15	16QAM	50	0	25.07	25.10	25.27	25.25	25.13			
15	16QAM	50	26	25.02	25.06	25.04	25.07	25.11	20.5	5	
15	16QAM	1	25	25.08	25.26	25.28	25.18	25.02			
15	256QAM	1	40	25.16	25.27	25.29	25.14	25.09			
15	256QAM	1	40	25.14	25.15	25.31	25.14	25.11	20.5	5	
15	256QAM	25	12	25.05	25.05	25.20	25.14	25.12			
15	256QAM	25	12	25.08	25.12	25.15	25.09	25.05			
15	256QAM	50	0	25.07	25.10	25.27	25.25	25.13	20.5	5	
Channel				39970	40168	40600	41000	41465			
Frequency (MHz)				2560	2561	2593	2637	2686			
5	QPSK	1	0	25.04	25.24	25.24	25.25	25.12			
5	QPSK	1	12	24.98	25.08	25.10	25.15	25.06	26	0	
5	QPSK	1	24	25.06	25.16	25.18	25.11	25.03			
5	QPSK	12	74	25.22	25.38	24.38	24.27	24.27			
5	QPSK	12	74	24.18	24.14	24.33	24.13	24.16	24.5	1	
5	QPSK	50	24	24.21	24.16	24.35	24.23	24.06			
5	QPSK	25	0	24.67	24.21	24.30	24.17	24.09			
5	QPSK	1	0	25.06	25.22	25.29	25.07	25.03	24.5	1	
5	QPSK	1	12	25.00	25.27	25.27	25.14	25.06			
5	16QAM	1	24	25.06	25.08	25.28	25.16	25.07			
5	16QAM	1	24	25.02	25.29	25.29	25.19	25.12	23.5	2	
5	16QAM	12	13	25.17	25.25	25.28	25.11	25.11			
5	16QAM	12	13	25.19	25.22	25.36	25.25	25.10			
5	16QAM	25	0	25.08	25.26	25.26	25.21	25.03	22.5	3	
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.26	25.26	25.22	25.05			
5	16QAM	1	12	25.03	25.						

Band 4 Main PA Ant3														
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (dB)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	22.52	22.51	22.57	24.5	0						
20	QPSK	1	49	22.58	22.53	22.58								
20	QPSK	1	99	22.51	22.55	22.52								
20	QPSK	50	0	21.50	21.50	21.51								
20	QPSK	50	24	21.51	21.51	21.51	23.5	1						
20	QPSK	50	50	21.53	21.51	21.50								
20	QPSK	100	0	21.50	21.57	21.52								
20	16QAM	1	0	21.51	21.49	21.49								
20	16QAM	1	49	21.53	21.55	21.59	23.5	1						
20	16QAM	1	99	21.54	21.51	21.53								
20	16QAM	50	0	20.74	20.91	20.75								
20	16QAM	50	24	20.89	20.73	20.87								
20	16QAM	50	50	20.73	20.77	20.73	22.5	2						
20	16QAM	100	0	20.68	20.73	20.63								
20	16QAM	1	0	20.54	20.55	20.62								
20	16QAM	1	49	20.57	20.59	20.50								
20	16QAM	1	99	20.59	20.58	20.51	21.5	3						
20	16QAM	50	0	19.56	19.67	19.57								
20	16QAM	50	24	19.53	19.58	19.52								
20	16QAM	50	50	19.58	19.63	19.56								
20	16QAM	100	0	19.52	19.55	19.59	19.5	5						
20	256QAM	1	49	17.55	17.55	17.54								
20	256QAM	1	99	17.55	17.51	17.52								
20	256QAM	50	0	17.53	17.78	17.68								
20	256QAM	50	24	17.54	17.68	17.69								
20	256QAM	50	50	17.60	17.72	17.57								
20	256QAM	100	0	17.61	17.72	17.57								
20	256QAM	Channel		17.77	17.69	17.66	Turn-up time (dB)	MFR (dB)						
Channel														
Frequency (MHz)														
16	QPSK	1	0	22.57	22.56	22.54	24.5	0						
16	QPSK	1	37	22.54	22.54	22.54								
16	QPSK	1	74	22.54	22.55	22.54								
16	QPSK	36	0	21.53	21.58	21.62								
16	QPSK	36	39	21.58	21.51	21.64	23.5	1						
16	QPSK	36	39	21.50	21.59	21.54								
16	QPSK	75	0	21.52	21.59	21.56								
16	16QAM	1	0	21.60	21.65	21.65								
16	16QAM	1	37	21.66	21.67	21.73	23.5	1						
16	16QAM	1	74	21.61	21.60	21.67								
16	16QAM	36	0	20.79	20.82	20.72								
16	16QAM	36	39	20.75	20.80	20.70								
16	16QAM	36	39	20.82	20.78	20.85	22.5	2						
16	16QAM	75	0	20.84	20.84	20.79								
16	16QAM	75	0	20.58	20.68	20.60								
16	16QAM	1	37	20.59	20.58	20.59								
16	16QAM	1	74	20.54	20.52	20.50	21.5	3						
16	16QAM	36	0	19.59	19.63	19.68								
16	16QAM	36	39	19.63	19.58	19.64								
16	16QAM	36	39	19.57	19.53	19.57								
16	16QAM	75	0	19.65	19.70	19.62	19.5	5						
16	256QAM	1	37	17.50	17.57	17.51								
16	256QAM	1	74	17.64	17.53	17.59								
16	256QAM	36	0	17.52	17.52	17.52								
16	256QAM	36	39	17.74	17.76	17.69	19.5	5						
16	256QAM	75	0	17.41	17.63	17.57								
16	256QAM	Channel		20.00	20.10	20.00								
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.40	22.41	22.40	24	0						
10	QPSK	1	25	22.45	22.45	22.44								
10	QPSK	1	49	22.30	22.39	22.28								
10	QPSK	1	74	22.38	22.38	22.38								
10	QPSK	12	0	21.76	21.88	21.88	23	1						
10	QPSK	25	12	21.82	21.82	21.84								
10	QPSK	25	25	21.86	21.58	21.83								
10	QPSK	36	0	21.74	21.79	21.75								
10	16QAM	1	0	21.74	21.71	21.69	23	1						
10	16QAM	1	25	21.52	21.68	21.58								
10	16QAM	1	49	21.62	21.62	21.62								
10	16QAM	25	0	20.59	20.71	20.55								
10	16QAM	25	12	20.47	20.63	20.48	22	2						
10	16QAM	36	0	20.56	20.68	20.57								
10	16QAM	36	0	20.49	20.63	20.50								
10	16QAM	1	0	20.39	20.47	20.37								
10	16QAM	1	25	20.31	20.43	20.27	21	3						
10	16QAM	1	49	20.25	20.42	20.22								
10	16QAM	25	0	19.66	19.65	19.58								
10	16QAM	25	12	19.50	19.65	19.47								
10	16QAM	25	25	19.48	19.62	19.50	19	5						
10	16QAM	50	0	19.40	19.55	19.43								
10	16QAM	50	0	17.71	17.84	17.75								
10	256QAM	1	25	17.72	17.82	17.68								
10	256QAM	1	49	17.63	17.66	17.65	19	5						
10	256QAM	25	0	17.70	17.75	17.64								
10	256QAM	25	12	17.43	17.59	17.56								
10	256QAM	25	25	17.66	17.70	17.64								
10	256QAM	50	0	17.57	17.61	17.58	22	2						
10	256QAM	50	0	20.75	21.00	21.05								
10	256QAM	Channel		20.05	20.35	20.05								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.43	22.53	22.53	24	0						
5	QPSK	1	12	22.40	22.44	22.49								
5	QPSK	1	24	22.34	22.45	22.28								
5	QPSK	12	0	21.76	21.88	21.88								
5	QPSK	12	7	21.72	21.83	21.63	23	1						
5	QPSK	12	13	21.68	21.73	21.61								
5	QPSK	36	0	21.74	21.83	21.61								
5	16QAM	1	0	21.84	21.77	21.64								
5	16QAM	1	12	21.48	21.66	21.62	23	1						
5	16QAM	1	24	21.43	21.60	21.59								
5	16QAM	12	0	20.85	20.76	20.68								
5	16QAM	12	7	20.45	20.61	20.51								
5	16QAM	12	13	20.63	20.71	20.65	22	2						
5	16QAM	25	0	20.48	20.58	20.51								
5	16QAM	1	0	20.32	20.41	20.41								
5	16QAM	1	12	20.23	20.44	20.27								
5	16QAM	1	24	20.31	20.39	20.28	21	3						
5	16QAM	12	0	19.68	19.74	19.57								
5	16QAM	12	7	19.48	19.60	19.54								
5	16QAM	12	13	19.56	19.63	19.53								
5	16QAM	25	0	19.44	19.61	19.46	19	5						
5	16QAM	25	0	17.74	17.76	17.75								
5	256QAM	1	12	17.75	17.79	17.63								
5	256QAM	1	24	17.56	17.72	17.70								
5	256QAM	25	0	17.72	17.69	17.68	Turn-up time (dB)	MFR (dB)						
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.54	22.57	22.51	24.5	0						
3	QPSK	1	12	22.50	22.51	22.54								
3	QPSK	1	14	22.58	22.54	22.55								
3	QPSK	8	0	21.60	21.58	21.57								
3	QPSK	8	7	21.56	21.53	21.53	23.5	1						
3	QPSK	8	7	21.54	21.63	21.63								
3	QPSK	16	0	21.59	21.55	21.66								
3	QPSK	16	7	21.58	21.74	21.68								
3	16QAM	1	8	21.58	21.54	21.65	23	1						
3	16QAM	1	14	21.57	21.67	21.63								
3	16QAM	8	0	20.77	20.76	20.78								
3	16QAM	8	7	20.67	20.83	20.79								
3	16QAM	8	7	20.73	20.73	20.74	22.5	2						
3	16QAM	8	0	20.64	20.66	20.64								
3	16QAM	1	8	20.59	20.62	20.58								
3	16QAM	8	7	20.52	20.83	20.68								
3	16QAM	8	0	19.55	19.79	19.54	21	3						
3	16QAM	8	7	19.53	19.81	19.50								
3	256QAM	1	0	17.74	17.69	17.67								
3	256QAM	1	7	17.67	17.87	17.78								
3	256QAM	1	14	17.57	17.87	17.78	19.5	5						
3	256QAM	8	0	17.65	17.80	17.74								
3	256QAM	8	7	17.61	17.81	17.63								
3	256QAM	8	7	17.77	17.80	17.56								
3	256QAM	16	0	17.62	17.65	17.65	Turn-up time (dB)	MFR (dB)						
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.50	22.52	22.54	24.5	0						
1.4	QPSK	1	6	22.54	22.51	22.55								
1.4	QPSK	1	14	22.58	22.54	22.55								
1.4	QPSK	8	0	21.60	21.56	21.57								
1.4	QPSK	8	7	21.56	21.53	21.53	23.5	1						
1.4	QPSK	8	7	21.54	21.63	21.63								
1.4	QPSK	16	0	21.59	21.55	21.66								
1.4	QPSK	16	7	21.58	21.74	21.68								
1.4	16QAM	1	8	21.58	21.54	21.65	23	1						
1.4	16QAM	1	14	21.57	21.67	21.63								
1.4	16QAM	8	0	20.77	20.76	20.78								
1.4	16QAM	8	7	20.67	20.83	20.79								
1.4	16QAM	8	7	20.73	20.73	20.74	22.5	2						
1.4	16QAM	8	0	20.64	20.66	20.64								
1.4	16QAM	1	8	20.59	20.62	20.58								
1.4	16QAM	8	7	20.52	20.83	20.68								
1.4	16QAM	8	0	19.55	19.79	19.54	21	3						
1.4	16QAM	8	7	19.53	19.81	19.50								
1.4	256QAM	1	0	17.74	17.69	17.67								
1.4	256QAM	1	7	17.67	17.87	17.78								
1.4	256QAM	1	14	17.57	17.87	17.78	19.5	5						
1.4	256QAM	8	0	17.65	17.80	17.74								
1.4	256QAM	8	7	17.61	17.81	17.63								
1.4	256QAM	8	7	17.77	17.80	17.56								
1.4	256QAM	16	0	17.62	17.65	17.65	Turn-up time (dB)	MFR (dB)						
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.50	22.52	22.54	24.5	0						
1.4	QPSK	1	6	22.54	22.51	22.55								
1.4	QPSK	1	14	22.58	22.54	22.55								
1.4	QPSK	8	0	21.60	21.56	21.57								
1.4	QPSK	8	7	21.56	21.53	21.53	23.5	1						
1.4	QPSK	8	7	21.54	21.63	21.63								
1.4	QPSK	16	0	21.59	21.55	21.66								
1.4	QPSK	16	7	21.58	21.									



Band 38 Main PA Ant3												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.94	23.12	23.06	24.5	0				
20	QPSK	1	48	22.80	23.04	22.94						
20	QPSK	1	96	22.91	22.99	22.96						
20	QPSK	50	0	22.10	22.25	22.13						
20	QPSK	50	24	22.08	22.19	22.16	23.5	1				
20	QPSK	50	48	22.05	22.14	22.08						
20	QPSK	100	0	22.07	22.17	22.07						
20	16QAM	1	0	22.04	22.10	22.02						
20	16QAM	1	48	21.99	22.04	21.99	23.5	1				
20	16QAM	1	96	21.95	22.00	21.95						
20	16QAM	50	0	21.08	21.15	21.08						
20	16QAM	50	24	20.94	21.07	20.98						
20	16QAM	50	50	21.02	21.11	21.07	22.5	2				
20	16QAM	100	0	20.93	21.05	20.94						
20	64QAM	1	0	20.70	20.77	20.68						
20	64QAM	1	48	20.61	20.73	20.66						
20	64QAM	50	0	20.04	20.17	20.05	22.5	2				
20	64QAM	50	24	19.95	20.08	20.02						
20	64QAM	50	50	20.10	20.13	20.02						
20	64QAM	100	0	19.94	20.05	20.02						
20	256QAM	1	0	17.84	17.87	17.83	19.5					
20	256QAM	1	48	17.80	17.84	17.79						
20	256QAM	1	96	17.79	17.89	17.76						
20	256QAM	50	24	17.08	18.08	17.96						
20	256QAM	50	50	18.09	18.14	18.09						
20	256QAM	100	0	17.80	17.84	17.84						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.12	22.15	22.13	24.5	0				
15	QPSK	1	37	22.82	22.80	22.86						
15	QPSK	1	74	22.85	22.85	22.77						
15	QPSK	36	0	21.99	22.22	22.02						
15	QPSK	36	20	21.94	22.06	22.12	23.5	1				
15	QPSK	36	36	21.92	22.06	22.01						
15	QPSK	75	0	22.00	22.08	21.94						
15	16QAM	1	0	22.01	22.08	21.88						
15	16QAM	1	37	21.95	21.92	21.91	23.5	1				
15	16QAM	1	74	21.88	21.90	21.82						
15	16QAM	36	0	20.95	21.08	20.94						
15	16QAM	36	20	20.93	21.05	20.87						
15	16QAM	36	36	20.91	21.08	20.96	22.5	2				
15	16QAM	75	0	20.83	20.92	20.88						
15	64QAM	1	0	20.71	20.75	20.61						
15	64QAM	1	37	20.56	20.66	20.60						
15	64QAM	1	74	20.51	20.60	20.58	22.5	2				
15	64QAM	36	0	19.96	20.02	19.92						
15	64QAM	36	20	19.87	20.04	19.93						
15	64QAM	36	36	19.92	20.04	19.92						
15	64QAM	75	0	19.94	19.94	19.90	21.5	3				
15	256QAM	1	0	17.73	17.82	17.84						
15	256QAM	1	37	17.73	17.82	17.75						
15	256QAM	1	74	17.68	17.81	17.65						
15	256QAM	36	0	18.02	18.06	17.93	19.5	5				
15	256QAM	36	20	17.90	17.99	17.82						
15	256QAM	36	36	18.04	18.01	18.02						
15	256QAM	75	0	17.82	17.96	17.88						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.90	22.99	22.92	24.5	0				
10	QPSK	1	25	22.87	22.96	22.82						
10	QPSK	1	48	22.82	22.81	22.74						
10	QPSK	25	0	22.04	22.12	22.06						
10	QPSK	25	12	22.01	22.07	22.01	23.5	1				
10	QPSK	25	25	21.96	22.00	22.00						
10	QPSK	50	0	22.02	22.12	22.08						
10	16QAM	1	0	21.96	22.05	21.96						
10	16QAM	1	25	21.98	21.98	21.88	23.5	1				
10	16QAM	1	48	21.87	21.93	21.85						
10	16QAM	25	0	20.95	21.08	20.96						
10	16QAM	25	12	20.87	20.83	20.89						
10	16QAM	25	25	20.85	20.97	21.00	22.5	2				
10	16QAM	50	0	20.89	20.95	20.80						
10	64QAM	1	0	20.68	20.72	20.68						
10	64QAM	1	25	20.65	20.70	20.59						
10	64QAM	1	48	20.57	20.62	20.62	22.5	2				
10	64QAM	25	0	19.97	20.14	19.97						
10	64QAM	25	12	19.91	20.00	19.97						
10	64QAM	25	25	20.06	20.07	19.95						
10	64QAM	50	0	19.81	20.01	19.92	21.5	3				
10	256QAM	1	0	17.76	17.85	17.81						
10	256QAM	1	25	17.73	17.83	17.73						
10	256QAM	1	48	17.76	17.82	17.63						
10	256QAM	25	0	17.99	18.05	17.93	19.5	5				
10	256QAM	25	12	17.96	18.00	17.96						
10	256QAM	25	25	17.97	18.02	17.99						
10	256QAM	50	0	17.86	17.97	17.82						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.90	22.91	22.99	24.5	0				
5	QPSK	1	16	22.78	22.85	22.87						
5	QPSK	1	24	22.78	22.84	22.82						
5	QPSK	12	0	22.03	22.14	22.09						
5	QPSK	12	7	22.03	22.12	22.09	23.5	1				
5	QPSK	12	19	22.00	22.02	21.96						
5	QPSK	25	0	21.97	22.05	21.96						
5	16QAM	1	0	21.93	22.04	21.89						
5	16QAM	1	12	21.84	21.95	21.90	23.5	1				
5	16QAM	1	24	21.94	21.96	21.86						
5	16QAM	12	0	21.03	21.11	20.97						
5	16QAM	12	7	20.87	20.99	20.94						
5	16QAM	12	13	20.85	20.97	20.93	22.5	2				
5	16QAM	25	0	20.84	20.91	20.80						
5	64QAM	1	0	20.69	20.74	20.68						
5	64QAM	1	12	20.67	20.84	20.68						
5	64QAM	1	24	20.54	20.70	20.55	22.5	2				
5	64QAM	12	0	19.96	20.09	19.99						
5	64QAM	12	7	19.81	19.98	19.88						
5	64QAM	12	13	20.07	20.10	19.91						
5	64QAM	25	0	19.93	19.94	19.92	21.5	3				
5	256QAM	1	0	17.80	17.88	17.79						
5	256QAM	1	12	17.79	17.81	17.70						
5	256QAM	1	24	17.84	17.82	17.63						
5	256QAM	12	0	18.00	18.14	17.92	19.5	5				
5	256QAM	12	7	17.94	18.02	17.88						
5	256QAM	12	13	17.97	18.11	18.03						
5	256QAM	25	0	17.82	17.94	17.86						

Band 41 Main PA Ant3											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.12	23.15	23.20	23.20	23.20	23.20	24.5	0
20	QPSK	1	48	23.03	22.98	23.12	23.07	23.07	23.03		
20	QPSK	1	96	23.01	22.97	23.10	22.97	22.97	23.00		
20	QPSK	50	0	22.30	22.20	22.41	22.28	22.28	22.30		
20	QPSK	50	24	22.23	22.15	22.30	22.28	22.28	22.31	23.5	1
20	QPSK	50	48	22.17	22.12	22.12	22.12	22.12	22.12		
20	QPSK	100	0	22.18	22.15	22.18	22.15	22.12	22.12		
20	16QAM	1	0	22.11	22.17	22.17	22.13	22.08	22.08		
20	16QAM	1	48	22.14	22.09	22.14	22.09	22.09	22.11	23.5	1
20	16QAM	1	96	22.02	22.06	22.14	22.11	21.94	21.94		
20	16QAM	50	0	21.17	21.24	21.26	21.23	21.11	21.08		
20	16QAM	50	24	21.07	21.01	21.07	21.04	20.91	20.91		
20	16QAM	50	50	21.17	21.11	21.27	21.19	21.08	21.08	22.5	2
20	16QAM	1	0	21.06	21.08	21.13	21.05	20.90	20.90		
20	16QAM	1	48	20.96	20.98	21.03	20.93	20.78	20.78		
20	16QAM	1	96	20.78	20.78	20.83	20.84	20.65	20.65		
20	16QAM	50	0	20.18	20.12	20.25	20.20	20.07	20.07	21.5	3
20	16QAM	50	24	20.08	20.09	20.21	20.11	20.00	20.00		
20	16QAM	50	48	20.10	20.27	20.25	20.17	20.00	20.00		
20	16QAM	100	0	20.07	20.03	20.11	20.16	19.98	19.98		
20	256QAM	1	0	18.06	17.94	18.00	18.03	17.79	17.89	19.5	5
20	256QAM	1	48	17.90	18.00	18.03	17.87	17.69	17.69		
20	256QAM	1	96	17.80	17.92	18.02	17.88	17.70	17.70		
20	256QAM	1	192	17.88	17.94	18.00	17.88	17.54	17.54		
20	256QAM	50	24	18.11	18.06	18.20	18.05	18.11	18.11	19.5	5
20	256QAM	50	48	18.12	18.17	18.21	18.14	18.05	18.05		
20	256QAM	50	96	18.05	18.03	18.13	18.04	17.91	17.91		
20	256QAM	100	0	18.05	18.13	18.06	18.08	17.88	17.88		
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.12	23.15	23.20	23.20	23.20	23.20	24.5	0
20	QPSK	1	48	23.03	22.98	23.12	23.07	23.07	23.03		
20	QPSK	1	96	23.01	22.97	23.10	22.97	22.97	23.00		
20	QPSK	50	0	22.30	22.20	22.41	22.28	22.28	22.30		
20	QPSK	50	24	22.23	22.15	22.30	22.28	22.28	22.31	23.5	1
20	QPSK	50	48	22.17	22.12	22.12	22.12	22.12	22.12		
20	QPSK	100	0	22.18	22.15	22.18	22.15	22.12	22.12		
20	16QAM	1	0	22.05	22.11	22.15	21.96	22.00	22.00		
20	16QAM	1	48	22.05	22.11	22.07	22.08	21.95	21.95	23.5	1
20	16QAM	1	96	22.04	21.06	22.05	21.96	21.83	21.83		
20	16QAM	50	0	21.07	21.04	21.15	21.13	21.00	21.00		
20	16QAM	50	24	21.02	21.08	21.15	21.04	20.92	20.92		
20	16QAM	50	48	21.03	21.02	21.24	21.11	21.04	21.04	22.5	2
20	16QAM	50	96	21.03	21.03	21.24	21.11	21.04	21.04		
20	16QAM	100	0	20.73	20.75	20.89	20.75	20.60	20.60		
20	16QAM	1	0	20.61	20.74	20.75	20.74	20.59	20.59		
20	16QAM	1	37	20.61	20.74	20.75	20.74	20.59	20.59	22.5	2
20	16QAM	1	74	20.73	20.68	20.75	20.71	20.57	20.57		
20	16QAM	50	0	20.58	20.45	20.57	20.50	20.32	20.32		
20	16QAM	50	24	20.52	20.01	20.17	20.07	19.87	19.87		
20	16QAM	50	48	20.52	20.04	20.16	20.07	19.87	19.87	21.5	3
20	16QAM	50	96	20.52	20.01	20.17	20.07	19.87	19.87		
20	16QAM	100	0	19.59	19.94	20.01	20.01	19.87	19.87		
20	16QAM	75	0	19.59	19.94	20.01	20.01	19.87	19.87		
20	256QAM	1	0	17.78	17.90	17.90	17.83	17.76	17.76	19.5	5
20	256QAM	1	37	17.78	17.88	17.87	17.77	17.63	17.63		
20	256QAM	1	74	17.85	18.16	18.16	18.06	17.85	17.85		
20	256QAM	50	24	17.85	17.88	18.11	18.00	17.86	17.86		
20	256QAM	50	39	17.85	18.04	18.09	18.00	17.84	17.84	19.5	5
20	256QAM	50	96	17.86	17.91	17.91	17.84	17.67	17.67		
20	256QAM	100	0	17.86	17.91	17.91	17.84	17.67	17.67		
20	256QAM	75	0	17.86	17.91	17.91	17.84	17.67	17.67		
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.12	23.15	23.20	23.20	23.20	23.20	26	0
20	QPSK	1	25	22.91	22.93	23.03	22.99	22.97	22.97		
20	QPSK	1	50	22.93	22.91	23.03	22.97	22.97	22.97		
20	QPSK	50	0	22.12	22.10	22.18	22.17	22.18	22.18		
20	QPSK	50	12	22.18	22.08	22.17	22.18	22.00	22.00	23.5	1
20	QPSK	50	24	22.13	22.08	22.17	22.18	22.00	22.00		
20	QPSK	50	48	22.10	22.01	22.24	22.08	22.02	22.02		
20	16QAM	1	0	21.07	22.03	22.08	22.06	21.89	21.89		
20	16QAM	1	25	22.03	22.01	22.18	22.07	21.90	21.90	23.5	1
20	16QAM	1	50	21.90	22.02	22.08	22.06	21.89	21.89		
20	16QAM	50	0	21.11	21.12	21.19	21.13	20.88	20.88		
20	16QAM	50	12	21.09	21.04	21.16	21.08	20.88	20.88		
20	16QAM	50	24	21.12	20.97	21.13	21.06	21.00	21.00	21.5	3
20	16QAM	50	48	21.02	20.97	21.13	21.06	20.88	20.88		
20	16QAM	100	0	20.80	20.79	20.85	20.71	20.77	20.77		
20	16QAM	1	0	20.57	20.66	20.75	20.76	20.58	20.58		
20	16QAM	1	25	20.65	20.69	20.80	20.75	20.57	20.57	22.5	2
20	16QAM	1	50	20.69	20.67	20.14	20.08	20.01	20.01		
20	16QAM	25	0	20.52	20.59	20.17	19.96	19.98	19.98		
20	16QAM	25	12	20.52	20.59	20.17	19.96	19.98	19.98		
20	16QAM	25	24	20.54	20.19	20.25	20.04	19.94	19.94	21.5	3
20	16QAM	25	48	20.50	20.19	20.25	20.02	19.88	19.88		
20	16QAM	50	0	17.60	17.78	17.88	17.80	17.67	17.67		
20	256QAM	1	26	17.77	17.96	17.92	17.83	17.64	17.64		
20	256QAM	1	49	17.75	17.78	17.80	17.80	17.62	17.62	19.5	5
20	256QAM	1	72	18.22	18.16	18.22	18.17	17.99	17.99		
20	256QAM	1	95	17.99	17.93	18.13	17.99	17.83	17.83		
20	256QAM	25	20	18.05	18.03	18.06	18.06	17.90	17.90		
20	256QAM	25	40	17.98	17.92	18.00	18.00	17.84	17.84	19.5	5
20	256QAM	25	60	17.98	17.92	18.00	18.00	17.84	17.84		
20	256QAM	100	0	17.98	17.92	18.00	18.00	17.84	17.84		
20	256QAM	75	0	17.98	17.92	18.00	18.00	17.84	17.84		
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.12	23.15	23.20	23.20	23.20	23.20	26	0
20	QPSK	1	12	22.94	22.90	23.01	22.93	22.93	22.93		
20	QPSK	1	24	22.98	22.90	23.01	22.93	22.93	22.93		
20	QPSK	12	0	22.22	22.15	22.23	22.23	22.21	22.21		
20	QPSK	12	7	22.11	22.11	22.22	22.18	22.12	22.12	23.5	1
20	QPSK	12	14	22.05	22.06	22.18	22.12	22.01	22.01		
20	QPSK	25	0	22.15	22.08	22.28	22.00	21.91	21.91		
20	QPSK	25	7	22.03	22.13	22.12	22.07	21.91	21.91		
20	16QAM	1	0	21.07	22.03	22.08	22.06	21.89	21.89	23.5	1
20	16QAM	1	12	22.03	22.01	22.18	22.07	21.90	21.90		
20	16QAM	1	24	21.90	22.02	22.08	22.06	21.89	21.89		
20	16QAM	1	36	21.07	21.14	21.16	21.13	21.06	21.06		
20	16QAM	12	7	20.95	20.98	21.13	21.07	21.02	21.02	22.5	2
20	16QAM	12	13	21.05	20.98	21.20	21.13	21.00	21.00		
20	16QAM	1	0	20.83	21.12	21.12	20.99	20.83	20.83		
20	16QAM	1	0	20.77	20.78	20.89	20.76	20.80	20.80		
20	16QAM	1	12	20.04	19.97	20.15	19.97	19.85	19.85	22.5	2
20	16QAM	1	24	20.00	20.68	20.71	20.71	20.60	20.60		
20	16QAM	12	24	20.07	20.59	20.68	20.68	20.54	20.54		
20	16QAM	25	0	19.97	19.95	20.08	20.08	19.89	19.89		
20	16QAM	25	12	17.84	17.78	17.86	17.86	17.69	17.69	19.5	5
20	256QAM	1	12	17.84	17.77	17.82	17.84	17.74	17.74		
20	256QAM	1	24	17.82	17.84	17.89	17.76	17.76	17.76		
20	256QAM	1	36	17.82	17.82	18.02	17.82	17.69	17.69		
20	256QAM	12	7	17.69	17.83	18.14	17.87	17.69	17.69	19.5	5
20	256QAM	12	13	18.08	18.09	18.16	18.01	17.97	17.97		
20	256QAM	12	19	17.90	17.92	18.09	18.03	17.90	17.90		
20	256QAM	100	0	17.90	17.92	18.09	18.03	17.90	17.90		



Band 2 Main PA AntA4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 1865.5	Power Mid Ch./Freq. 1866.0	Power High Ch./Freq. 1866.5	Turnup time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.26	23.35	23.31	24.5	0		
20	QPSK	1	49	23.24	23.27	23.25				
20	QPSK	1	99	23.18	23.22	23.16				
20	QPSK	50	0	22.96	22.92	22.90				
20	QPSK	50	24	22.90	22.90	22.94	23.5	1		
20	QPSK	50	50	22.16	22.31	22.23				
20	QPSK	100	0	22.93	22.97	22.98				
20	16QAM	1	0	22.72	22.84	22.72				
20	16QAM	1	49	22.68	22.78	22.68	23.5	1		
20	16QAM	1	99	22.68	22.74	22.63				
20	16QAM	50	0	21.93	21.99	21.98				
20	16QAM	50	24	21.17	21.32	21.27				
20	16QAM	50	50	21.29	21.36	21.26	22.5	2		
20	16QAM	100	0	21.24	21.30	21.22				
20	16QAM	1	0	21.39	21.52	21.41				
20	16QAM	1	49	21.43	21.46	21.39				
20	16QAM	50	0	20.43	20.47	20.41	21.5	3		
20	16QAM	50	24	20.49	20.38	20.31				
20	16QAM	50	50	20.35	20.43	20.36				
20	16QAM	100	0	20.22	20.35	20.30				
20	256QAM	1	0	18.41	18.50	18.37	19.5	5		
20	256QAM	1	49	18.42	18.47	18.33				
20	256QAM	1	99	18.34	18.42	18.33				
20	256QAM	50	0	18.38	18.45	18.31				
20	256QAM	50	24	18.33	18.37	18.24	19.5	5		
20	256QAM	50	50	18.30	18.40	18.34				
20	256QAM	100	0	18.27	18.41	18.35				
Channel										
Frequency (MHz)										
16	QPSK	1	0	18.67.5	18.68.0	18.68.5	24.5	0		
16	QPSK	1	0	23.21	23.29	23.18				
16	QPSK	1	37	23.19	23.29	23.14				
16	QPSK	1	74	23.15	23.12	23.06				
16	QPSK	36	0	22.90	22.92	22.91	23.5	1		
16	QPSK	36	36	22.18	22.28	22.20				
16	QPSK	36	72	22.11	22.22	22.19				
16	QPSK	75	0	22.19	22.25	22.19				
16	16QAM	1	0	22.60	22.67	22.61	23.5	1		
16	16QAM	1	37	22.62	22.70	22.62				
16	16QAM	1	74	22.66	22.68	22.67				
16	16QAM	36	0	21.20	21.30	21.18				
16	16QAM	36	36	21.13	21.26	21.12	22.5	2		
16	16QAM	36	72	21.13	21.27	21.13				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25	21.07	22.5	2		
16	16QAM	75	0	21.19	21.25	21.07				
16	16QAM	75	0	21.19	21.25					

Band 25 Main PA Ant4												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up (ms)	MPR (dB)				
Channel												
1800 1800 1800												
20	QPSK	1	0	23.31	23.42	23.27	24.5	0				
20	QPSK	1	49	23.29	23.34	23.24						
20	QPSK	1	99	23.16	23.29	23.21						
20	QPSK	50	0	22.24	22.52	22.30						
20	QPSK	50	24	22.22	22.22	22.21	23.5	1				
20	QPSK	50	50	22.16	22.24	22.12						
20	QPSK	100	0	22.16	22.25	22.20						
20	16QAM	1	0	22.65	22.66	22.66						
20	16QAM	1	49	22.48	22.59	22.47	23.5	1				
20	16QAM	1	99	22.52	22.55	22.43						
20	16QAM	50	0	21.31	21.39	21.28						
20	16QAM	50	24	21.19	21.28	21.15						
20	16QAM	50	50	21.18	21.21	21.21	22.5	2				
20	16QAM	100	0	21.19	21.29	21.19						
20	64QAM	1	0	21.44	21.51	21.47						
20	64QAM	1	49	21.31	21.45	21.39						
20	64QAM	1	99	21.27	21.41	21.28	22.5	2				
20	64QAM	50	0	20.31	20.42	20.32						
20	64QAM	50	24	20.19	20.23	20.22						
20	64QAM	50	50	20.28	20.38	20.25						
20	256QAM	1	0	18.45	18.50	18.38	19.5	5				
20	256QAM	1	49	18.40	18.43	18.33						
20	256QAM	1	99	18.38	18.42	18.30						
20	256QAM	50	0	18.28	18.41	18.28						
20	256QAM	50	24	18.27	18.31	18.18						
20	256QAM	50	50	18.25	18.37	18.33						
20	256QAM	100	0	18.23	18.36	18.32						
Channel												
1807.5 1800 1807.5												
15	QPSK	1	0	23.20	23.36	23.13	24.5	0				
15	QPSK	1	37	23.20	23.30	23.20						
15	QPSK	1	74	23.07	23.16	23.17						
15	QPSK	36	0	22.13	22.36	22.07						
15	QPSK	36	25	22.15	22.15	22.07	23.5	1				
15	QPSK	36	39	22.12	22.09	22.06						
15	QPSK	75	0	22.09	22.15	22.08						
15	16QAM	1	0	22.45	22.54	22.49						
15	16QAM	1	37	22.38	22.55	22.33	23.5	1				
15	16QAM	1	74	22.43	22.47	22.43						
15	16QAM	36	0	21.18	21.22	21.23						
15	16QAM	36	25	21.13	21.18	21.08						
15	16QAM	36	0	21.04	21.12	21.09	22.5	2				
15	64QAM	1	0	21.32	21.42	21.41						
15	64QAM	1	37	21.35	21.47	21.47						
15	64QAM	1	74	21.17	21.20	21.19						
15	64QAM	36	0	20.20	20.36	20.17	21.5	3				
15	64QAM	36	25	20.20	20.27	20.27						
15	64QAM	36	39	20.22	20.25	20.19						
15	64QAM	75	0	20.22	20.23	20.16						
15	256QAM	1	0	18.34	18.46	18.34	19.5	5				
15	256QAM	1	37	18.34	18.32	18.29						
15	256QAM	1	74	18.29	18.36	18.22						
15	256QAM	36	0	18.18	18.38	18.22						
15	256QAM	36	25	18.13	18.25	18.11	19.5	5				
15	256QAM	36	39	18.15	18.32	18.26						
15	256QAM	75	0	18.13	18.26	18.28						
Channel												
1809.5 1800 1809.5												
10	QPSK	1	0	23.27	23.30	23.15	24.5	0				
10	QPSK	1	25	23.17	23.24	23.20						
10	QPSK	1	49	23.10	23.18	23.09						
10	QPSK	25	12	22.16	22.19	22.07						
10	QPSK	25	13	22.04	22.11	22.01	23.5	1				
10	QPSK	50	0	22.12	22.12	22.12						
10	16QAM	1	0	22.42	22.50	22.47						
10	16QAM	1	25	22.34	22.50	22.42						
10	16QAM	1	49	22.45	22.45	22.36	23.5	1				
10	16QAM	25	0	21.22	21.20	21.19						
10	16QAM	25	12	21.14	21.17	21.08						
10	16QAM	25	13	21.05	21.10	21.15						
10	16QAM	50	0	21.08	21.10	21.07	22.5	2				
10	64QAM	1	0	21.32	21.36	21.44						
10	64QAM	1	25	21.35	21.35	21.36						
10	64QAM	1	49	21.17	21.34	21.18						
10	64QAM	25	0	20.24	20.30	20.29	21.5	3				
10	64QAM	25	12	20.05	20.30	20.18						
10	64QAM	25	25	20.23	20.30	20.20						
10	64QAM	50	0	20.20	20.22	20.20						
10	256QAM	1	0	18.40	18.43	18.33	19.5	5				
10	256QAM	1	25	18.36	18.39	18.33						
10	256QAM	1	49	18.30	18.35	18.27						
10	256QAM	25	0	18.21	18.25	18.21						
10	256QAM	25	12	18.20	18.20	18.14	19.5	5				
10	256QAM	25	25	18.11	18.25	18.20						
10	256QAM	50	0	18.20	18.20	18.24						
Channel												
1809.5 1800 1809.5												
5	QPSK	1	0	23.24	23.31	23.19	24.5	0				
5	QPSK	1	12	23.18	23.30	23.15						
5	QPSK	1	24	23.02	23.15	23.14						
5	QPSK	12	0	22.13	22.28	22.12						
5	QPSK	12	7	22.09	22.21	22.16	23.5	1				
5	QPSK	12	13	22.08	22.14	22.09						
5	QPSK	25	0	22.05	22.21	22.16						
5	16QAM	1	0	22.47	22.51	22.45						
5	16QAM	1	12	22.43	22.44	22.43	23.5	1				
5	16QAM	1	24	22.37	22.45	22.33						
5	16QAM	12	0	21.17	21.33	21.24						
5	16QAM	12	7	21.07	21.24	21.07						
5	16QAM	12	13	21.00	21.27	21.00	22.5	2				
5	64QAM	1	0	21.39	21.43	21.32						
5	64QAM	1	12	21.20	21.33	21.30						
5	64QAM	1	24	21.18	21.28	21.17						
5	64QAM	12	0	20.17	20.31	20.20	21.5	3				
5	64QAM	12	7	20.08	20.30	20.13						
5	64QAM	12	13	20.20	20.30	20.20						
5	64QAM	25	0	20.15	20.16	20.21						
5	256QAM	1	0	18.31	18.39	18.33	19.5	5				
5	256QAM	1	12	18.35	18.37	18.27						
5	256QAM	1	24	18.28	18.28	18.16						
5	256QAM	12	0	18.18	18.32	18.25						
5	256QAM	12	7	18.23	18.20	18.07	19.5	5				
5	256QAM	12	13	18.12	18.32	18.21						
5	256QAM	25	0	18.14	18.30	18.25						
Channel												
1809.5 1800 1809.5												
3	QPSK	1	0	23.24	23.26	23.16	24.5	0				
3	QPSK	1	8	23.18	23.24	23.16						
3	QPSK	1	14	23.03	23.22	23.08						
3	QPSK	8	0	22.16	22.27	22.11						
3	QPSK	8	4	22.12	22.16	22.13	23.5	1				
3	QPSK	8	7	22.05	22.14	22.08						
3	QPSK	15	0	22.02	22.14	22.14						
3	16QAM	1	0	22.50	22.60	22.42						
3	16QAM	1	8	22.38	22.45	22.36	23.5	1				
3	16QAM	1	14	22.44	22.49	22.30						
3	16QAM											



Band 38 Main PA Ant4 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)												
20	QPSK	1	0	23.69	23.73	23.63	24.2	0				
20	QPSK	1	49	23.59	23.69	23.58						
20	QPSK	50	0	23.70	23.70	23.53						
20	QPSK	50	24	23.63	23.70	23.60						
20	QPSK	50	36	23.59	23.64	23.48	24.2	0				
20	QPSK	100	0	23.70	23.71	23.60						
20	16QAM	1	0	23.73	23.79	23.56						
20	16QAM	1	49	23.61	23.75	23.60						
20	16QAM	1	99	23.58	23.68	23.56	24.2	0				
20	16QAM	50	0	23.21	23.28	23.20						
20	16QAM	50	24	23.27	23.30	23.24						
20	16QAM	50	50	23.26	23.34	23.29						
20	16QAM	100	0	23.16	23.23	23.18	23.7	0.5				
20	16QAM	100	0	23.15	23.22	23.15						
20	64QAM	1	49	23.68	23.19	23.13						
20	64QAM	1	99	23.65	23.17	23.26						
20	64QAM	50	0	22.23	22.28	22.15	22.7	1.5				
20	64QAM	50	24	22.18	22.25	22.12						
20	64QAM	50	50	22.21	22.29	22.19						
20	64QAM	100	0	22.13	22.17	22.13						
20	256QAM	1	0	20.23	20.28	20.19	20.7	3.5				
20	256QAM	1	49	20.19	20.16	20.09						
20	256QAM	1	99	20.00	20.07	19.95						
20	256QAM	50	0	20.09	20.12	20.06						
20	256QAM	50	24	20.05	20.10	20.04	20.7	3.5				
20	256QAM	50	50	20.14	20.18	20.08						
20	256QAM	100	0	20.05	20.17	20.03						
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.74	23.78	23.72	24.2	0				
15	QPSK	1	37	23.65	23.77	23.82						
15	QPSK	1	74	23.65	23.68	23.47						
15	QPSK	36	0	23.74	23.77	23.57						
15	QPSK	36	20	23.59	23.76	23.65	24.2	0				
15	QPSK	36	36	23.69	23.76	23.61						
15	QPSK	75	0	23.75	23.73	23.58						
15	16QAM	1	0	23.73	23.73	23.58						
15	16QAM	1	37	23.67	23.72	23.56	24.2	0				
15	16QAM	1	74	23.51	23.71	23.54						
15	16QAM	36	0	23.67	23.22	23.05						
15	16QAM	36	36	23.10	23.15	23.13						
15	16QAM	36	36	23.10	23.21	23.18	23.7	0.5				
15	16QAM	75	0	23.07	23.15	23.11						
15	64QAM	1	0	23.04	23.18	23.10						
15	64QAM	1	37	23.03	23.11	23.07						
15	64QAM	1	74	22.92	23.04	22.93	22.7	1.5				
15	64QAM	36	0	22.12	22.23	22.11						
15	64QAM	36	20	22.08	22.10	22.03						
15	64QAM	75	0	22.05	22.10	22.04						
15	256QAM	1	0	20.14	20.14	20.05	20.7	3.5				
15	256QAM	1	37	19.95	19.95	19.82						
15	256QAM	36	0	19.95	20.02	19.97						
15	256QAM	36	20	19.89	19.99	19.97						
15	256QAM	36	36	20.01	20.05	19.99	20.7	3.5				
15	256QAM	75	0	19.99	20.13	19.95						
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.70	23.80	23.72	24.2	0				
10	QPSK	1	25	23.67	23.69	23.62						
10	QPSK	1	49	23.51	23.66	23.54						
10	QPSK	25	0	23.74	23.76	23.60						
10	QPSK	25	12	23.67	23.77	23.63	24.2	0				
10	QPSK	25	25	23.54	23.61	23.49						
10	16QAM	1	0	23.71	23.80	23.68						
10	16QAM	1	0	23.65	23.80	23.67						
10	16QAM	1	25	23.65	23.72	23.56	24.2	0				
10	16QAM	1	49	23.50	23.69	23.54						
10	16QAM	25	0	23.16	23.21	23.19						
10	16QAM	25	19	23.21	23.15	23.16						
10	16QAM	25	19	23.15	23.22	23.17	23.7	0.5				
10	16QAM	50	0	23.10	23.12	23.06						
10	64QAM	1	0	23.10	23.12	23.05						
10	64QAM	1	25	23.01	23.12	22.99						
10	64QAM	1	49	22.92	23.08	22.92	23.7	0.5				
10	64QAM	25	0	22.16	22.24	22.05						
10	64QAM	25	12	22.06	22.15	22.04						
10	64QAM	25	25	22.10	22.20	22.14						
10	64QAM	50	0	22.00	22.03	22.05	22.7	1.5				
10	256QAM	1	0	20.11	20.11	20.09						
10	256QAM	1	25	19.98	20.02	19.95						
10	256QAM	1	49	19.90	19.92	19.91						
10	256QAM	25	0	19.95	19.99	19.98	20.7	3.5				
10	256QAM	25	12	19.92	20.00	19.90						
10	256QAM	25	25	20.00	20.14	20.03						
10	256QAM	50	0	19.93	20.13	19.97						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.66	23.74	23.65	24.2	0				
5	QPSK	1	19	23.62	23.69	23.57						
5	QPSK	1	24	23.53	23.68	23.50						
5	QPSK	12	0	23.74	23.74	23.60						
5	QPSK	12	7	23.68	23.70	23.60	24.2	0				
5	QPSK	12	19	23.51	23.78	23.59						
5	QPSK	25	0	23.70	23.78	23.59						
5	16QAM	1	0	23.74	23.78	23.59						
5	16QAM	1	12	23.64	23.68	23.58	24.2	0				
5	16QAM	1	24	23.51	23.60	23.47						
5	16QAM	12	0	23.19	23.18	23.11						
5	16QAM	12	7	23.12	23.22	23.15						
5	16QAM	12	13	23.09	23.18	23.10	23.7	0.5				
5	16QAM	25	0	23.07	23.20	23.12						
5	64QAM	1	0	23.07	23.23	23.03						
5	64QAM	1	12	22.96	23.13	23.03						
5	64QAM	1	24	22.99	23.02	22.91	23.7	0.5				
5	64QAM	12	0	22.17	22.15	22.07						
5	64QAM	12	7	22.06	22.13	22.02						
5	64QAM	12	13	22.13	22.15	22.12						
5	64QAM	25	0	22.10	22.04	22.06	22.7	1.5				
5	256QAM	1	0	20.09	20.23	20.08						
5	256QAM	1	12	19.97	20.12	20.01						
5	256QAM	1	24	19.88	19.84	19.88						
5	256QAM	12	0	19.98	19.99	19.98	20.7	3.5				
5	256QAM	12	7	19.85	19.88	19.94						
5	256QAM	12	13	20.00	20.09	19.96						
5	256QAM	25	0	19.92	20.06	19.91						

Band 41 Main PA Ant4 DSI3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Power High Noise Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.69	23.71	23.66	23.76	23.70	24.2	0
20	QPSK	1	49	23.63	23.60	23.71	23.65	23.64		
20	QPSK	1	99	23.62	23.60	23.72	23.62	23.62		
20	QPSK	50	0	23.60	23.74	23.65	23.72	23.75		
20	QPSK	50	24	23.60	23.65	23.69	23.66	23.62	24.2	0
20	QPSK	50	36	23.55	23.60	23.72	23.57	23.61		
20	QPSK	100	0	23.72	23.78	23.65	23.81	23.64		
20	16QAM	1	0	23.61	23.73	23.61	23.76	23.66		
20	16QAM	1	49	23.56	23.68	23.64	23.73	23.63	24.2	0
20	16QAM	1	99	23.64	23.60	23.67	23.57	23.58		
20	16QAM	50	0	23.27	23.30	23.35	23.25	23.31		
20	16QAM	50	24	23.29	23.26	23.31	23.28	23.34		
20	16QAM	50	36	23.22	23.26	23.31	23.26	23.31	23.7	0.5
20	16QAM	100	0	23.21	23.12	23.25	23.21	23.14		
20	64QAM	1	0	23.53	23.64	23.56	23.63	23.54		
20	64QAM	1	49	23.48	23.41	23.45	23.37	23.47		
20	64QAM	1	99	23.51	23.47	23.52	23.44	23.48	23.7	0.5
20	64QAM	50	0	23.26	23.20	23.24	23.23	23.27		
20	64QAM	50	24	23.25	23.22	23.23	23.23	23.27		
20	64QAM	100	0	23.18	23.24	23.29	23.21	23.16		
20	256QAM	1	0	23.27	23.20	23.32	23.29	23.19	20.7	3.5
20	256QAM	1	49	23.23	23.18	23.29	23.18	23.20		
20	256QAM	1	99	23.16	23.17	23.24	23.15	23.17		
20	256QAM	50	0	23.15	23.16	23.22	23.15	23.15		
20	256QAM	50	24	23.05	23.08	23.13	23.05	23.07	20.7	3.5
20	256QAM	50	36	23.04	23.07	23.10	23.09	23.14		
20	256QAM	100	0	23.14	23.13	23.19	23.09	23.14		
20	256QAM	100	49	23.07	23.04	23.09	23.04	23.04		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.61	23.74	23.64	23.74	23.74	24	0
15	QPSK	1	37	23.46	23.62	23.74	23.71	23.63		
15	QPSK	1	74	23.61	23.68	23.68	23.59	23.64		
15	QPSK	50	0	23.66	23.69	23.78	23.78	23.68		
15	QPSK	50	24	23.63	23.57	23.74	23.79	23.54	24.2	0
15	QPSK	50	36	23.58	23.61	23.78	23.73	23.61		
15	QPSK	100	0	23.60	23.75	23.64	23.82	23.73		
15	16QAM	1	0	23.64	23.67	23.65	23.78	23.74		
15	16QAM	1	49	23.51	23.58	23.67	23.54	23.58	24.2	0
15	16QAM	1	99	23.19	23.17	23.27	23.12	23.18		
15	16QAM	50	0	23.11	23.15	23.19	23.12	23.12		
15	16QAM	50	24	23.10	23.19	23.17	23.15	23.11		
15	16QAM	50	36	23.09	23.19	23.17	23.15	23.11	23.7	0.5
15	16QAM	100	0	23.08	23.19	23.17	23.15	23.07		
15	64QAM	1	0	23.76	23.84	23.87	23.85	23.80		
15	64QAM	1	37	23.80	23.66	23.87	23.82	23.82		
15	64QAM	1	74	23.79	23.72	23.82	23.82	23.82	23.7	0.5
15	64QAM	50	0	23.73	23.72	23.82	23.79	23.73		
15	64QAM	50	24	23.25	23.25	23.29	23.24	23.28		
15	64QAM	50	36	23.25	23.10	23.29	23.25	23.28		
15	64QAM	100	0	23.17	23.19	23.23	23.19	23.23	22.7	1.5
15	64QAM	100	49	23.07	23.18	23.15	23.06	23.09		
15	256QAM	1	0	23.12	23.15	23.25	23.15	23.15		
15	256QAM	1	37	23.02	23.03	23.05	23.01	23.01		
15	256QAM	1	74	23.02	23.04	23.09	23.08	23.12	20.7	3.5
15	256QAM	50	0	23.06	23.10	23.15	23.06	23.10		
15	256QAM	50	24	23.00	23.00	23.06	23.05	23.08		
15	256QAM	50	36	23.07	23.10	23.12	23.05	23.09		
15	256QAM	100	0	23.04	23.08	23.15	23.04	23.04	20.7	3.5
15	256QAM	100	49	23.00	23.00	23.06	23.02	23.06		
15	256QAM	100	74	23.00	23.00	23.06	23.02	23.06		
15	256QAM	100	99	23.00	23.00	23.06	23.02	23.06		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.61	23.70	23.63	23.73	23.73	24	0
10	QPSK	1	25	23.61	23.57	23.72	23.64	23.57		
10	QPSK	1	50	23.59	23.66	23.73	23.67	23.66		
10	QPSK	25	0	23.64	23.70	23.75	23.77	23.65		
10	QPSK	25	12	23.62	23.63	23.68	23.72	23.64	24.2	0
10	QPSK	25	37	23.63	23.68	23.73	23.73	23.68		
10	QPSK	50	0	23.60	23.68	23.64	23.81	23.76		
10	16QAM	1	0	23.64	23.76	23.60	23.82	23.64		
10	16QAM	1	25	23.61	23.65	23.68	23.74	23.61	24.2	0
10	16QAM	1	50	23.61	23.66	23.68	23.74	23.61		
10	16QAM	25	0	23.21	23.26	23.22	23.25	23.27		
10	16QAM	25	12	23.11	23.16	23.23	23.18	23.13		
10	16QAM	25	37	23.11	23.15	23.23	23.14	23.09	23.7	0.5
10	16QAM	50	0	23.12	23.12	23.15	23.15	23.16		
10	64QAM	1	0	23.81	23.84	23.88	23.85	23.81		
10	64QAM	1	25	23.79	23.73	23.88	23.72	23.80		
10	64QAM	1	50	23.68	23.72	23.88	23.72	23.68	23.7	0.5
10	64QAM	25	0	23.31	23.20	23.28	23.28	23.33		
10	64QAM	25	12	23.20	23.09	23.20	23.21	23.10		
10	64QAM	25	37	23.20	23.09	23.20	23.20	23.30		
10	64QAM	50	0	23.22	23.13	23.19	23.19	23.27	22.7	1.5
10	64QAM	50	12	23.23	23.10	23.19	23.20	23.27		
10	256QAM	1	0	23.23	23.10	23.19	23.20	23.27		
10	256QAM	1	25	23.15	23.12	23.26	23.10	23.06		
10	256QAM	1	50	23.05	23.01	23.09	23.03	23.01	20.7	3.5
10	256QAM	25	0	23.02	23.05	23.15	23.02	23.05		
10	256QAM	25	12	23.05	23.06	23.04	23.06	23.01		
10	256QAM	25	37	23.01	23.09	23.10	23.06	23.02		
10	256QAM	50	0	23.07	23.08	23.06	23.06	23.04	20.7	3.5
10	256QAM	50	12	23.07	23.08	23.06	23.06	23.04		
10	256QAM	50	25	23.01	23.02	23.05	23.06	23.00		
10	256QAM	50	37	23.01	23.02	23.05	23.06	23.00		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.66	23.69	23.79	23.67	23.76	24	0
5	QPSK	1	12	23.66	23.60	23.73	23.67	23.63		
5	QPSK	1	24	23.56	23.60	23.73	23.57	23.63		
5	QPSK	12	0	23.71	23.79	23.64	23.74	23.73		
5	QPSK	12	7	23.66	23.61	23.75	23.72	23.74	24.2	0
5	QPSK	12	19	23.68	23.66	23.75	23.73	23.63		
5	QPSK	25	0	23.69	23.74	23.60	23.83	23.65		
5	QPSK	25	12	23.63	23.68	23.81	23.67	23.73		
5	16QAM	1	0	23.81	23.85	23.76	23.79	23.81	24.2	0
5	16QAM	1	19	23.81	23.76	23.85	23.76	23.81		
5	16QAM	1	24	23.58	23.56	23.68	23.67	23.51		
5	16QAM	12	7	23.19	23.24	23.34	23.17	23.27		
5	16QAM	12	7	23.12	23.09	23.23	23.04	23.03	23.7	0.5
5	16QAM	12	13	23.18	23.14	23.16	23.18	23.05		
5	64QAM	1	0	23.82	23.89	23.87	23.91	23.88		
5	64QAM	1	12	23.83	23.73	23.86	23.80	23.75		
5	64QAM	1	19	23.84	23.74	23.89	23.83	23.78	23.7	0.5
5	64QAM	12	7	23.26	23.04	23.25	23.09	23.13		
5	64QAM	12	13	23.26	23.04	23.25	23.09	23.13		
5	64QAM	25	0	23.07	23.16	23.15	23.14	23.10		
5	256QAM	1	0	23.29	23.06	23.27	23.12	23.10	20.7	3.5
5	256QAM	1	12	23.18	23.11	23.22	23.04	23.14		
5	256QAM	1	24	23.13	23.09	23.15	23.10	23.07		
5	256QAM	1	19	23.08	23.15	23.16	23.07	23.08		
5	256QAM	12	7	23.00	23.08	23.08	23.06	23.09	20.7	3.5
5	256QAM	12	13	23.01	23.02	23.05	23.06	23.00		
5	256QAM	12	19	23.01	23.02	23.05	23.06	23.00		
5	256QAM	12	24	23.01	23.02	23.05	23.06	23.00		



Band 42 FCC Part27Q Main PA Ant5 DSI3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	21.94	22.12	21.97	22.5	0			
20	QPSK	1	49	21.84	21.99	21.78					
20	QPSK	1	99	21.71	21.84	21.63					
20	QPSK	50	0	21.96	22.10	21.93					
20	QPSK	50	24	21.83	21.88	21.84	22.5	0			
20	QPSK	50	99	21.78	21.87	21.80					
20	QPSK	100	0	21.98	22.05	21.96					
20	16QAM	1	0	21.82	21.88	21.79					
20	16QAM	1	49	21.74	21.80	21.81	22.5	0			
20	16QAM	1	99	21.98	22.11	22.01					
20	16QAM	50	0	21.89	21.97	21.79					
20	16QAM	50	24	21.89	21.91	21.89					
20	16QAM	50	50	22.02	22.02	21.98	22.5	0			
20	16QAM	100	0	21.92	21.99	21.82					
20	8QAM	1	0	21.77	21.91	21.81					
20	8QAM	1	49	21.95	21.99	21.88					
20	8QAM	1	99	21.95	21.95	21.98	22.5	0			
20	8QAM	50	0	21.73	21.93	21.78					
20	8QAM	50	24	22.04	22.05	21.99					
20	8QAM	50	50	21.85	21.90	21.81					
20	8QAM	100	0	21.74	21.85	21.85	22.5	0			
20	256QAM	1	0	19.76	19.84	19.70					
20	256QAM	1	49	19.87	19.80	19.87					
20	256QAM	1	99	19.84	19.79	19.73					
20	256QAM	50	0	19.88	19.79	19.86	20.5	2			
20	256QAM	50	24	19.57	19.63	19.51					
20	256QAM	50	50	19.64	19.75	19.68					
20	256QAM	100	0	19.95	19.86	19.87					
Channel											
Frequency (MHz)											
15	QPSK	1	0	347.5	350.5	349.5	22.5	0			
15	QPSK	1	37	21.81	21.97	21.83					
15	QPSK	1	74	21.75	21.94	21.78					
15	QPSK	36	0	21.98	22.10	21.91					
15	QPSK	36	20	21.89	21.94	21.79	22.5	0			
15	QPSK	36	50	21.88	21.90	21.86					
15	QPSK	75	0	21.98	22.05	22.01					
15	16QAM	1	0	21.90	21.99	21.89					
15	16QAM	1	37	21.71	21.87	21.78	22.5	0			
15	16QAM	1	74	21.97	22.00	21.96					
15	16QAM	36	0	21.86	22.00	21.88					
15	16QAM	36	20	21.75	21.84	21.83					
15	16QAM	36	50	22.00	22.00	21.93	22.5	0			
15	16QAM	75	0	21.91	22.00	21.80					
15	8QAM	1	0	21.72	21.90	21.79					
15	8QAM	1	37	22.01	22.11	21.94					
15	8QAM	1	74	21.86	21.91	21.79	22.5	0			
15	8QAM	36	0	21.79	21.85	21.83					
15	8QAM	36	20	21.87	21.88	21.88					
15	8QAM	36	50	21.92	21.94	21.94					
15	8QAM	75	0	21.92	21.96	21.91	20.5	2			
15	256QAM	1	0	19.86	19.79	19.88					
15	256QAM	1	37	19.80	19.75	19.83					
15	256QAM	1	74	19.83	19.80	19.82					
15	256QAM	36	0	19.85	19.72	19.89	20.5	2			
15	256QAM	36	20	19.49	19.52	19.37					
15	256QAM	36	50	19.59	19.61	19.58					
15	256QAM	75	0	19.51	19.53	19.51					
Channel											
Frequency (MHz)											
10	QPSK	1	0	345.5	350.5	349.5	22.5	0			
10	QPSK	1	25	21.82	21.98	21.87					
10	QPSK	1	49	21.71	21.83	21.85					
10	QPSK	25	0	21.98	22.10	21.94					
10	QPSK	25	12	21.81	21.90	21.85	22.5	0			
10	QPSK	25	25	21.76	21.91	21.79					
10	QPSK	50	0	22.01	22.10	21.94					
10	16QAM	1	0	21.92	21.98	21.87					
10	16QAM	1	25	21.80	21.89	21.80	22.5	0			
10	16QAM	1	49	22.02	22.08	21.93					
10	16QAM	25	0	21.82	22.00	21.86					
10	16QAM	25	12	21.74	21.86	21.80					
10	16QAM	25	25	22.03	22.07	21.92	22.5	0			
10	16QAM	50	0	21.88	21.92	21.89					
10	8QAM	1	0	21.75	21.91	21.86					
10	8QAM	1	25	21.80	21.89	21.86					
10	8QAM	25	0	21.78	21.85	21.83	22.5	0			
10	8QAM	25	12	21.68	21.99	21.80					
10	8QAM	25	25	21.60	21.63	21.53					
10	8QAM	50	0	21.58	21.59	21.50					
10	8QAM	50	12	21.68	21.69	21.60	20.5	2			
10	8QAM	50	25	21.62	21.66	21.61					
10	8QAM	50	50	21.60	21.65	21.54					
10	8QAM	100	0	21.55	21.57	21.40					
10	8QAM	1	0	21.55	21.43	21.42	22	0			
10	8QAM	1	25	21.36	21.43	21.37					
10	8QAM	25	0	21.55	21.59	21.51					
10	8QAM	25	12	21.49	21.49	21.44					
10	8QAM	25	25	21.50	21.56	21.36	22	0			
10	8QAM	50	0	21.33	21.48	21.38					
10	256QAM	1	0	19.89	19.78	19.79					
10	256QAM	1	25	19.61	19.84	19.86					
10	256QAM	1	49	19.57	19.84	19.81	20.5	1.5			
10	256QAM	25	0	19.78	19.84	19.75					
10	256QAM	25	12	19.50	19.47	19.46					
10	256QAM	25	25	19.09	19.09	19.01					
10	256QAM	50	0	19.67	19.67	19.64	20.5	1.5			
10	256QAM	50	12	19.63	19.63	19.61					
10	256QAM	50	25	19.55	19.58	19.51					
10	256QAM	100	0	19.49	19.50	19.45					

Band 48 Main PA Ant5 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.58	21.58	21.49	21.53	22	0
20	QPSK	1	49	21.54	21.48	21.43	21.47		
20	QPSK	1	99	21.59	21.45	21.47	21.58		
20	QPSK	50	0	21.60	21.62	21.58	21.52		
20	QPSK	50	24	21.52	21.49	21.41	21.51	22	0
20	QPSK	50	99	21.50	21.51	21.39	21.58		
20	QPSK	100	0	21.55	21.58	21.54	21.53		
20	16QAM	1	0	21.47	21.53	21.39	21.49		
20	16QAM	1	49	21.38	21.47	21.48	21.37	22	0
20	16QAM	1	99	21.59	21.62	21.58	21.54		
20	16QAM	50	0	21.51	21.51	21.36	21.45		
20	16QAM	50	24	21.52	21.49	21.39	21.50		
20	16QAM	50	50	21.61	21.59	21.50	21.46	22	0
20	16QAM	100	0	21.54	21.56	21.42	21.49		
20	8QAM	1	0	21.30	21.43	21.35	21.27		
20	8QAM	1	49	21.54	21.58	21.58	21.56	22	0
20	8QAM	1	99	21.47	21.56	21.43	21.45		
20	8QAM	50	0	21.35	21.51	21.45	21.35		
20	8QAM	50	24	21.58	21.58	21.54	21.53		
20	8QAM	50	50	21.45	21.49	21.43	21.54	22	0
20	8QAM	100	0	21.37	21.52	21.36	21.31		
20	256QAM	1	0	19.92	19.93	19.84	19.90	20.5	1.5
20	256QAM	1	49	19.93	19.86	19.83	19.89		
20	256QAM	1	99	19.72	19.85	19.88	19.85		
20	256QAM	50	0	19.98	19.98	19.89	19.97		
20	256QAM	50	24	19.70	19.75	19.72	19.67	20.5	1.5
20	256QAM	50	99	19.76	19.85	19.75	19.66		
20	256QAM	100	0	19.83	19.82	19.73	19.85		
20	256QAM	100	24	19.83	19.82	19.73	19.85		
Channel									
Frequency (MHz)									
15	QPSK	1	0	21.52	21.60	21.54	21.54	22	0
15	QPSK	1	47	21.49	21.56	21.38	21.41		
15	QPSK	1	94	21.59	21.44	21.39	21.47		
15	QPSK	50	0	21.58	21.58	21.38	21.58		
15	QPSK	50	20	21.47	21.58	21.37	21.47	22	0
15	QPSK	50	94	21.50	21.58	21.42	21.58		
15	QPSK	75	0	21.60	21.67	21.53	21.54		
15	16QAM	1	0	21.55	21.58	21.38	21.54		
15	16QAM	1	47	21.38	21.43	21.43	21.34	22	0
15	16QAM	1	94	21.58	21.60	21.58	21.44		
15	16QAM	50	0	21.53	21.53	21.38	21.53		
15	16QAM	50	20	21.54	21.54	21.39	21.59		
15	16QAM	50	94	21.62	21.58	21.60	21.45	22	0
15	16QAM	75	0	21.59	21.62	21.50	21.59		
15	16QAM	1	0	21.30	21.50	21.40	21.27		
15	16QAM	1	47	21.53	21.58	21.60	21.45		
15	16QAM	1	94	21.57	21.57	21.38	21.54	22	0
15	16QAM	50	0	21.37	21.52	21.48	21.38		
15	16QAM	50	20	21.60	21.58	21.50	21.48		
15	16QAM	75	0	21.47	21.47	21.47	21.47		
15	16QAM	75	0	21.35	21.50	21.44	21.35	22	0
15	256QAM	1	37	19.58	19.95	19.85	19.62		
15	256QAM	1	74	19.58	19.85	19.85	19.60		
15	256QAM	50	0	19.67	19.85	19.78	19.76		
15	256QAM	50	20	19.61	19.70	19.52	19.54	20.5	1.5
15	256QAM	50	94	19.61	19.77	19.63	19.63		
15	256QAM	100	0	19.83	19.83	19.68	19.67		
15	256QAM	100	24	19.83	19.83	19.68	19.67		
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.60	21.77	21.68	21.68	22	0
5	QPSK	1	25	21.49	21.54	21.39	21.47		
5	QPSK	1	50	21.59	21.44	21.39	21.47		
5	QPSK	25	0	21.55	21.59	21.51	21.51		
5	QPSK	25	12	21.49	21.58	21.39	21.54	22	0
5	QPSK	25	37	21.58	21.58	21.42	21.38		
5	QPSK	50	0	21.62	21.60	21.49	21.51		
5	16QAM	1	0	21.45	21.50	21.44	21.50		
5	16QAM	1	25	21.39	21.43	21.38	21.39	22	0
5	16QAM	1	50	21.58	21.58	21.39	21.51		
5	16QAM	25	0	21.46	21.49	21.44	21.50		
5	16QAM	25	12	21.50	21.50	21.38	21.39		
5	16QAM	25	37	21.50	21.50	21.38	21.39	22	0
5	16QAM	50	0	21.60	21.60	21.54	21.49		
5	16QAM	50	25	21.62	21.62	21.48	21.40		
5	16QAM	1	0	21.35	21.43	21.42	21.33		
5	16QAM	1	25	21.61	21.58	21.52	21.49	22	0
5	16QAM	1	50	21.58	21.58	21.44	21.50		
5	16QAM	25	0	21.37	21.44	21.46	21.29		
5	16QAM	25	12	21.62	21.63	21.50	21.50		
5	16QAM	25	37	21.50	21.57	21.38	21.44	22	0
5	16QAM	50	0	21.63	21.64	21.44	21.38		
5	16QAM	50	25	21.60	21.60	21.54	21.49		
5	16QAM	1	0	21.35	21.43	21.42	21.33		
5	16QAM	1	25	21.61	21.58	21.52	21.49	22	0
5	16QAM	1	50	21.58	21.58	21.44	21.50		
5	16QAM	25	0	21.37	21.44	21.46	21.29		
5	16QAM	25	12	21.62	21.63	21.50	21.50		
5	16QAM	25	37	21.50	21.57	21.38	21.44	22	0
5	16QAM	50	0	21.63	21.64	21.44	21.38		
5	16QAM	50	25	21.60	21.60	21.54	21.49		
5	16QAM	1	0	21.35	21.43	21.42	21.33		
5	16QAM	1	25	21.61	21.58	21.52	21.49	22	0
5	16QAM	1	50	21.58	21.58	21.44	21.50		
5	16QAM	25	0	21.37	21.44	21.46	21.29		
5	16QAM	25	12	21.62	21.63	21.50	21.50		
5	16QAM	25	37	21.50	21.57	21.38	21.44	22	0
5	16QAM	50	0	21.63	21.64	21.44	21.38		
5	16QAM	50	25	21.60	21.60	21.54	21.49		
5	16QAM	1	0	21.35	21.43	21.42	21.33		
5	16QAM	1	25	21.61	21.58	21.52	21.49	22	0
5	16QAM	1	50	21.58	21.58	21.44	21.50		
5	16QAM	25	0	21.37	21.44	21.46	21.29		
5	16QAM	25	12	21.62	21.63	21.50	21.50		
5	16QAM	25	37	21.50	21.57	21.38	21.44	22	0
5	16QAM	50	0	21.63	21.64	21.44	21.38		
5	16QAM	50	25	21.60	21.60	21.54	21.49		
5	16QAM	1	0	21.35	21.43	21.42	21.33		
5	16QAM	1	25	21.61	21.58	21.52	21.49	22	0
5	16QAM	1	50	21.58	21.58	21.44	21.50		
5	16QAM	25	0	21.37	21.44	21.46	21.29		
5	16QAM	25	12	21.62	21.63	21.50	21.50		
5	16QAM	25	37	21.50	21.57	21.38	21.44	22	0
5	16QAM	50	0	21.63	21.64	21.44	21.38		
5	16QAM	50	25	21.60	21.60	21.54	21.49		
5	16QAM	1	0	21.35	21.43	21.42	21.33		
5	16QAM	1	25	21.61	21.58	21.52	21.49	22	0
5	16QAM	1	50	21.58	21.58	21.44	21.50		
5	16QAM	25	0	21.37	21.44	21.46	21.29		
5	16QAM	25	12	21.62	21.63	21.50	21.50		
5	16QAM	25	37	21.50	21.57	21.38	21.44	22	0
5	16QAM	50	0	21.63	21.64	21.44	21.38		
5	16QAM	50	25	21.60	21.60	21.54	21.49		
5	16QAM	1	0	21.35	21.43	21.42	21.33		
5	16QAM	1	25	21.61	21.58	21.52	21.49	22	0
5	16QAM	1	50	21.58	21.58	21.44	21.50		
5	16QAM	25	0	21.37	21.44	21.46	21.29		
5	16QAM	25	12	21.62	21.63	21.50	21.50		
5	16QAM	25	37	21.50	21.57	21.38	21.44	22	0
5	16QAM	50	0	21.63	21.64	21.44	21.38		
5	16QAM	50	25	21.60	21.60	21.54	21.49		
5	16QAM	1	0	21.35	21.43	21.42	21.33		
5	16QAM	1	25	21.61	21.58	21.52	21.49	22	0
5	16QAM	1	50	21.58	21.58	21.44	21.50		
5	16QAM	25	0	21.37	21.44	21.46	21.29		
5	16QAM	25	12	21.62	21.63	21.50	21.50		
5	16QAM	25	37	21.50	21.57	21.38	21.44	22	0
5	16QAM	50	0	21.63	21.64	21.44	21.38		
5	16QAM	50	25	21.60	21.60	21.54	21.49		
5	16QAM	1	0	21.35	21.43	21.42	21.33		
5	16QAM	1	25	21.61	21.58	21.52	21.49	22	0
5	16QAM	1	50	21.58	21.58	21.44	21.50		
5	16QAM	25	0	21.37	21.44	21.46	21.29		
5	16QAM	25	12	21.62	21.63	21.50	21.50		
5	16QAM	25	37	21.50	21.57	21.38	21.44	22	0
5	16QAM	50	0	21.63	21.64	21.44	21.38		
5	16QAM	50	25	21.60	21.60	21.54	21.49		
5	16QAM	1	0	21.35	21.43	21.42	21.33		
5	16QAM	1	25	21.61	21.58	21.52	21.49	22	0
5	16QAM	1	50	21.58	21.58	21.44	21.50		
5	16QAM	25	0	21.37	21.44	21.46	21.29		
5	16QAM	25	12	21.62	21.63	21.50	21.50		
5	16QAM	25	37	21.50	21.57	21.38	21.44	22	0
5	16QAM	50	0	21.63	21.64	21.44	21.38		
5	16QAM	50	25	21.60	21.60	21.54	21.49		
5	16QAM	1	0	21.35	21.43	21.42	21.33		
5	16QAM	1	25	21.61	21.58	21.52	21.49	22	0
5	16QAM	1	50	21.58	21.58	21.44	21.50		
5	16QAM	25	0	21.37	21.44	21.46	21.29		
5	16QAM	25	12	21.62	21.63	21.50	21.50		
5	1								



Band 42 FCC Part27Q Main PA Ant6 DSI3												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	21.18	21.18	21.18	22	0				
20	QPSK	1	49	21.13	21.13	21.08						
20	QPSK	1	98	21.07	21.11	21.08						
20	QPSK	50	0	21.18	21.17	21.13						
20	QPSK	50	24	21.15	21.18	21.05	22	0				
20	QPSK	50	50	21.03	21.13	21.15						
20	QPSK	100	0	21.05	21.21	21.13						
20	HQAM	1	0	21.14	21.21	21.14						
20	HQAM	1	49	21.03	21.13	21.15	22	0				
20	HQAM	1	99	21.22	21.25	21.14						
20	HQAM	50	0	21.19	21.29	21.08						
20	HQAM	50	24	21.02	21.32	21.11						
20	HQAM	50	50	21.29	21.29	21.13	22	0				
20	HQAM	100	0	21.10	21.22	21.07						
20	8QAM	1	0	21.02	21.15	21.04						
20	8QAM	1	49	21.18	21.29	21.19						
20	8QAM	1	99	21.15	21.12	21.06	22	0				
20	8QAM	50	0	21.01	21.10	21.10						
20	8QAM	50	24	21.28	21.27	21.17						
20	8QAM	50	50	21.15	21.18	21.07						
20	8QAM	100	0	21.02	21.19	21.10	20.5	1.5				
20	25SQAM	1	0	19.34	19.47	19.38						
20	25SQAM	1	49	19.26	19.44	19.40						
20	25SQAM	1	99	19.25	19.39	19.31						
20	25SQAM	50	0	19.28	19.38	19.32	20.5	1.5				
20	25SQAM	50	24	19.17	19.31	19.22						
20	25SQAM	50	50	19.31	19.37	19.23						
20	25SQAM	100	0	19.15	19.35	19.29						
Channel												
Frequency (MHz)												
15	QPSK	1	0	21.03	21.25	21.23	22	0				
15	QPSK	1	47	21.19	21.19	21.07						
15	QPSK	1	74	21.03	21.13	21.10						
15	QPSK	36	0	21.07	21.30	21.15						
15	QPSK	36	20	21.17	21.21	21.06	22	0				
15	QPSK	36	50	21.08	21.18	21.08						
15	QPSK	75	0	21.21	21.31	21.18						
15	HQAM	1	0	21.15	21.29	21.13						
15	HQAM	1	47	21.09	21.29	21.04	22	0				
15	HQAM	1	74	21.19	21.32	21.21						
15	HQAM	36	0	21.13	21.22	21.11						
15	HQAM	36	20	21.05	21.25	21.13						
15	HQAM	36	50	21.18	21.22	21.14	22	0				
15	HQAM	75	0	21.14	21.14	21.07						
15	HQAM	1	0	21.09	21.15	21.04						
15	HQAM	1	27	21.24	21.34	21.18						
15	HQAM	1	74	21.13	21.24	21.19	22	0				
15	HQAM	36	0	21.01	21.30	21.04						
15	HQAM	36	20	21.25	21.29	21.17						
15	HQAM	36	50	21.14	21.25	21.06						
15	8QAM	75	0	21.04	21.08	21.11	20.5	1.5				
15	25SQAM	1	0	19.25	19.34	19.23						
15	25SQAM	1	47	19.13	19.33	19.32						
15	25SQAM	1	74	19.16	19.24	19.18						
15	25SQAM	36	0	19.21	19.38	19.20	20.5	1.5				
15	25SQAM	36	20	19.08	19.27	19.14						
15	25SQAM	36	50	19.27	19.23	19.13						
15	25SQAM	75	0	19.15	19.34	19.22						
Channel												
Frequency (MHz)												
10	QPSK	1	0	21.22	21.30	21.14	22	0				
10	QPSK	1	25	21.10	21.19	21.12						
10	QPSK	1	49	21.05	21.10	21.04						
10	QPSK	25	0	21.27	21.23	21.08						
10	QPSK	25	12	21.13	21.21	21.13	22	0				
10	QPSK	25	25	21.05	21.19	21.09						
10	QPSK	50	0	21.28	21.21	21.21						
10	HQAM	1	0	21.11	21.21	21.15						
10	HQAM	1	25	21.08	21.11	21.10	22	0				
10	HQAM	1	49	21.07	21.25	21.18						
10	HQAM	25	0	21.12	21.19	21.16						
10	HQAM	25	12	21.04	21.12	21.07						
10	HQAM	25	25	21.17	21.21	21.20	22	0				
10	HQAM	50	0	21.20	21.20	21.12						
10	HQAM	1	0	21.09	21.17	21.08						
10	HQAM	25	0	21.24	21.32	21.17						
10	HQAM	25	25	21.17	21.16	21.14	22	0				
10	HQAM	50	0	21.00	21.13	21.04						
10	8QAM	25	12	21.24	21.32	21.17						
10	8QAM	25	25	21.19	21.30	21.17						
10	25SQAM	1	0	19.26	19.37	19.32	20.5	1.5				
10	25SQAM	1	25	19.26	19.41	19.30						
10	25SQAM	1	49	19.13	19.26	19.23						
10	25SQAM	25	0	19.23	19.38	19.24						
10	25SQAM	25	12	19.05	19.26	19.15	20.5	1.5				
10	25SQAM	25	25	19.27	19.27	19.12						
10	25SQAM	50	0	19.11	19.33	19.16						
10	25SQAM	50	0	19.15	19.35	19.29						
Channel												
Frequency (MHz)												
5	QPSK	1	0	21.19	21.31	21.18	22	0				
5	QPSK	1	12	21.18	21.19	21.15						
5	QPSK	1	24	21.08	21.19	21.13						
5	QPSK	12	0	21.22	21.32	21.19						
5	QPSK	12	7	21.14	21.25	21.17	22	0				
5	QPSK	12	13	21.03	21.19	21.07						
5	QPSK	25	0	21.29	21.29	21.19						
5	HQAM	1	0	21.17	21.18	21.07						
5	HQAM	1	12	21.03	21.15	21.14	22	0				
5	HQAM	1	24	21.24	21.21	21.21						
5	HQAM	12	0	21.19	21.13	21.11						
5	HQAM	12	7	21.01	21.13	21.07						
5	HQAM	12	13	21.25	21.30	21.20	22	0				
5	HQAM	25	0	21.13	21.16	21.10						
5	HQAM	1	0	21.11	21.16	21.07						
5	HQAM	1	24	21.15	21.23	21.13						
5	HQAM	12	0	21.01	21.17	21.14	22	0				
5	HQAM	12	7	21.27	21.21	21.16						
5	HQAM	12	13	21.12	21.15	21.15						
5	HQAM	25	0	21.03	21.13	21.13						
5	25SQAM	1	0	19.29	19.30	19.30	20.5	1.5				
5	25SQAM	1	12	19.27	19.37	19.33						
5	25SQAM	1	24	19.19	19.33	19.19						
5	25SQAM	12	0	19.28	19.29	19.26						
5	25SQAM	12	7	19.04	19.17	19.18	20.5	1.5				
5	25SQAM	12	13	19.27	19.26	19.16						
5	25SQAM	25	0	19.18	19.31	19.14						
5	25SQAM	25	0	19.18	19.31	19.14						

Band 48 Main PA Ant6 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.17	21.03	21.17	21.15	22.5	0
20	QPSK	1	49	21.17	21.15	21.05	21.04		
20	QPSK	1	99	21.02	21.15	21.19	21.04		
20	QPSK	50	0	21.81	21.05	21.15	21.15		
20	QPSK	50	24	21.15	21.16	21.05	21.04	22.5	0
20	QPSK	50	50	21.03	21.08	21.03	21.01		
20	QPSK	100	0	21.15	21.03	21.18	21.15		
20	16QAM	1	0	21.02	21.15	21.19	21.04	22.5	0
20	16QAM	1	49	21.17	21.15	21.05	21.04		
20	16QAM	1	99	21.02	21.15	21.19	21.04		
20	16QAM	50	0	21.81	21.05	21.15	21.15		
20	16QAM	50	24	21.15	21.16	21.05	21.04	22.5	0
20	16QAM	50	50	21.03	21.08	21.03	21.01		
20	16QAM	100	0	21.15	21.03	21.18	21.15		
20	64QAM	1	0	21.02	21.15	21.19	21.04	22.5	0
20	64QAM	1	49	21.17	21.15	21.05	21.04		
20	64QAM	1	99	21.02	21.15	21.19	21.04		
20	64QAM	50	0	21.81	21.05	21.15	21.15		
20	64QAM	50	24	21.15	21.16	21.05	21.04	22.5	0
20	64QAM	50	50	21.03	21.08	21.03	21.01		
20	64QAM	100	0	21.15	21.03	21.18	21.15		
20	256QAM	1	0	21.02	21.15	21.19	21.04	22.5	0
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.03	21.16	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15		
20	256QAM	50	24	21.15	21.16	21.05	21.04	20.5	2
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15	21.16	21.05	21.04		
20	256QAM	50	50	21.03	21.08	21.03	21.01		
20	256QAM	100	0	21.15	21.03	21.18	21.15	22.5	0
20	256QAM	1	0	21.02	21.15	21.19	21.04		
20	256QAM	1	49	21.17	21.15	21.05	21.04		
20	256QAM	1	99	21.02	21.15	21.19	21.04		
20	256QAM	50	0	21.81	21.05	21.15	21.15	22.5	0
20	256QAM	50	24	21.15					



Band 42 FCC Part27Q Mian PA Ant7												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.52	23.52	23.43	24.5	0				
20	QPSK	1	49	23.52	23.44	23.38						
20	QPSK	1	98	23.52	23.45	23.36						
20	QPSK	50	0	22.45	22.50	22.40						
20	QPSK	50	24	22.57	22.48	22.43	23.5	1				
20	QPSK	50	50	22.57	22.53	22.50						
20	QPSK	100	0	22.28	22.37	22.25						
20	HQAM	1	0	22.28	22.37	22.33						
20	HQAM	1	49	22.50	22.33	22.19	23.5	1				
20	HQAM	1	99	22.13	22.25	22.12						
20	HQAM	50	0	21.40	21.36	21.46						
20	HQAM	50	24	21.52	21.46	21.38						
20	HQAM	50	50	21.54	21.46	21.39	22.5	2				
20	HQAM	100	0	21.21	21.24	21.25						
20	HQAM	100	0	21.25	21.42	21.37						
20	HQAM	1	49	21.57	21.36	21.28						
20	HQAM	1	99	21.19	21.25	21.12	21.5	3				
20	HQAM	50	0	20.41	20.50	20.43						
20	HQAM	50	24	20.35	20.38	20.28						
20	HQAM	50	50	20.32	20.45	20.33						
20	HQAM	100	0	20.26	20.35	20.28	19.5	5				
20	25QAM	1	0	18.24	18.36	18.28						
20	25QAM	1	49	18.27	18.30	18.17						
20	25QAM	1	99	18.24	18.50	18.25						
20	25QAM	50	0	18.28	18.36	18.30						
20	25QAM	50	24	18.09	18.22	18.16						
20	25QAM	50	50	18.06	18.19	18.10						
20	25QAM	100	0	18.16	18.20	18.14	19.5	5				
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.44	23.50	23.43				24.5	0	
15	QPSK	1	47	23.26	23.32	23.32						
15	QPSK	1	74	23.22	23.30	23.24						
15	QPSK	36	0	22.41	22.35	22.30						
15	QPSK	36	20	22.28	22.30	22.35	23.5	1				
15	QPSK	36	50	22.22	22.30	22.16						
15	QPSK	75	0	22.24	22.32	22.11						
15	HQAM	1	0	22.25	22.29	22.25						
15	HQAM	1	47	22.13	22.14	22.14	23.5	1				
15	HQAM	1	74	22.07	22.10	22.03						
15	HQAM	36	0	21.31	21.37	21.37						
15	HQAM	36	20	21.29	21.30	21.29						
15	HQAM	36	50	21.31	21.34	21.31	22.5	2				
15	HQAM	75	0	21.14	21.21	21.15						
15	HQAM	1	0	21.24	21.29	21.22						
15	HQAM	1	27	21.18	21.32	21.15						
15	HQAM	1	74	21.11	21.22	21.00	21.5	3				
15	HQAM	36	0	20.33	20.45	20.38						
15	HQAM	36	20	20.25	20.29	20.22						
15	HQAM	36	50	20.15	20.22	20.22						
15	HQAM	75	0	20.15	20.22	20.22	19.5	5				
15	25QAM	1	0	18.17	18.18	18.08						
15	25QAM	1	47	18.17	18.18	18.07						
15	25QAM	1	74	18.13	18.16	18.17						
15	25QAM	36	0	18.20	18.27	18.18	19.5	5				
15	25QAM	36	20	17.98	18.10	18.02						
15	25QAM	36	50	17.98	18.13	18.07						
15	25QAM	75	0	18.14	18.16	18.00						
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.48	23.48	23.54	24.5	0				
10	QPSK	1	25	23.16	23.29	23.29						
10	QPSK	1	49	23.31	23.32	23.33						
10	QPSK	25	0	22.33	22.36	22.36						
10	QPSK	25	12	22.28	22.42	22.35	23.5	1				
10	QPSK	25	25	22.18	22.29	22.13						
10	QPSK	50	0	22.13	22.25	22.18						
10	HQAM	1	0	22.17	22.33	22.26						
10	HQAM	1	25	22.11	22.16	22.12	23.5	1				
10	HQAM	1	49	22.50	22.11	21.08						
10	HQAM	25	0	21.31	21.45	21.38						
10	HQAM	25	12	21.27	21.42	21.21						
10	HQAM	25	25	21.21	21.45	21.25	22.5	2				
10	HQAM	50	0	21.09	21.24	21.18						
10	HQAM	1	0	21.24	21.37	21.26						
10	HQAM	1	25	21.23	21.29	21.21						
10	HQAM	1	49	21.09	21.17	21.08	21.5	3				
10	HQAM	25	0	20.33	20.37	20.40						
10	HQAM	25	12	20.32	20.33	20.12						
10	HQAM	25	25	20.22	20.33	20.26						
10	HQAM	50	0	20.15	20.25	20.18	19.5	5				
10	25QAM	1	0	18.16	18.30	18.20						
10	25QAM	1	25	18.21	18.16	18.09						
10	25QAM	1	49	18.10	18.15	18.13						
10	25QAM	25	0	18.16	18.19	18.18	19.5	5				
10	25QAM	25	12	18.04	18.12	18.07						
10	25QAM	25	25	18.01	18.16	18.00						
10	25QAM	50	0	17.97	18.16	18.09						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.45	23.45	23.35	24.5	0				
5	QPSK	1	12	23.18	23.31	23.31						
5	QPSK	1	24	23.29	23.30	23.28						
5	QPSK	12	0	22.50	22.45	22.36						
5	QPSK	12	7	22.29	22.45	22.36	23.5	1				
5	QPSK	12	13	22.28	22.29	22.19						
5	QPSK	25	0	22.25	22.32	22.17						
5	HQAM	1	0	22.23	22.30	22.23						
5	HQAM	1	12	22.16	22.26	22.14	23.5	1				
5	HQAM	1	24	22.01	22.10	22.06						
5	HQAM	12	0	21.36	21.45	21.41						
5	HQAM	12	7	21.24	21.33	21.22						
5	HQAM	12	13	21.18	21.30	21.26	22.5	2				
5	HQAM	25	0	21.08	21.30	21.17						
5	HQAM	1	0	21.28	21.28	21.28						
5	HQAM	1	12	21.16	21.24	21.11						
5	HQAM	1	24	21.02	21.21	21.00	21.5	3				
5	HQAM	12	0	20.34	20.37	20.29						
5	HQAM	12	7	20.26	20.24	20.21						
5	HQAM	12	13	20.28	20.40	20.20						
5	HQAM	25	0	20.11	20.26	20.17	19.5	5				
5	25QAM	1	0	18.10	18.32	18.23						
5	25QAM	1	12	18.16	18.18	18.09						
5	25QAM	1	24	18.18	18.23	18.11						
5	25QAM	12	0	18.17	18.27	18.16	19.5	5				
5	25QAM	12	7	18.01	18.16	18.10						
5	25QAM	12	13	17.89	18.11	17.99						
5	25QAM	25	0	17.94	18.14	18.06						

Band 48 Main PA Ant7 DS13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	18.55	18.56	18.51	18.56	19.5	0
20	QPSK	1	49	18.39	18.57	18.38	18.51		
20	QPSK	1	99	18.39	18.56	18.40	18.40		
20	QPSK	50	0	18.58	18.52	18.55	18.55		
20	QPSK	50	24	18.44	18.53	18.43	18.48	19.5	0
20	QPSK	50	50	18.47	18.58	18.37	18.45		
20	QPSK	100	0	18.58	18.50	18.52	18.55		
20	16QAM	1	0	18.56	18.56	18.45	18.48	19.5	0
20	16QAM	1	49	18.41	18.57	18.44	18.46		
20	16QAM	1	99	18.56	18.56	18.50	18.48		
20	16QAM	50	0	18.47	18.59	18.41	18.53		
20	16QAM	50	24	18.37	18.47	18.38	18.43	19.5	0
20	16QAM	50	50	18.58	18.58	18.46	18.47		
20	16QAM	100	0	18.45	18.56	18.39	18.51		
20	16QAM	1	0	18.46	18.46	18.42	18.57	19.5	0
20	16QAM	1	49	18.40	18.45	18.39	18.46		
20	16QAM	1	99	18.40	18.45	18.44	18.45		
20	16QAM	50	0	18.59	18.57	18.41	18.48		
20	16QAM	50	24	18.38	18.58	18.47	18.52	19.5	0
20	16QAM	50	50	18.40	18.53	18.44	18.48		
20	16QAM	100	0	18.45	18.52	18.31	18.51		
20	256QAM	1	0	18.32	18.47	18.38	18.41	19.5	0
20	256QAM	1	49	18.38	18.31	18.29	18.25		
20	256QAM	1	99	18.33	18.38	18.24	18.36		
20	256QAM	50	0	18.40	18.40	18.37	18.47	19.5	0
20	256QAM	50	24	18.15	18.25	18.26	18.22		
20	256QAM	50	50	18.19	18.31	18.27	18.18		
20	256QAM	100	0	18.21	18.28	18.25	18.28		
Channel									
Frequency (MHz)									
16	QPSK	1	0	18.53	18.60	18.57	18.58	19.5	0
16	QPSK	1	47	18.48	18.51	18.37	18.46		
16	QPSK	1	74	18.47	18.51	18.48	18.53		
16	QPSK	36	0	18.41	18.58	18.38	18.57		
16	QPSK	36	18	18.42	18.52	18.44	18.52	19.5	0
16	QPSK	75	0	18.61	18.60	18.48	18.52		
16	16QAM	1	0	18.40	18.54	18.44	18.55		
16	16QAM	1	49	18.58	18.58	18.34	18.53	19.5	0
16	16QAM	1	74	18.59	18.61	18.50	18.51		
16	16QAM	36	0	18.30	18.60	18.39	18.54		
16	16QAM	36	18	18.30	18.50	18.41	18.43		
16	16QAM	75	0	18.61	18.58	18.56	18.58	19.5	0
16	16QAM	75	18	18.58	18.57	18.50	18.54		
16	16QAM	1	0	18.45	18.59	18.30	18.52		
16	16QAM	1	37	18.61	18.58	18.37	18.56	19.5	0
16	16QAM	1	74	18.63	18.55	18.43	18.51		
16	16QAM	36	0	18.43	18.63	18.37	18.53		
16	16QAM	36	25	18.57	18.66	18.53	18.58		
16	16QAM	75	0	18.48	18.58	18.48	18.53	19.5	0
16	16QAM	75	0	18.42	18.48	18.42	18.50		
16	16QAM	100	0	18.58	18.58	18.57	18.58		
20	256QAM	1	37	18.28	18.30	18.16	18.16	19.5	0
20	256QAM	1	74	18.19	18.38	18.09	18.26		
20	256QAM	36	0	18.28	18.28	18.05	18.26		
20	256QAM	36	25	18.04	18.23	18.12	18.13	19.5	0
20	256QAM	36	59	18.13	18.21	18.13	18.14		
20	256QAM	75	0	18.17	18.31	18.22	18.14		
Channel									
Frequency (MHz)									
10	QPSK	1	0	18.63	18.63	18.53	18.54	19.5	0
10	QPSK	1	25	18.44	18.52	18.43	18.48		
10	QPSK	1	50	18.43	18.53	18.43	18.48		
10	QPSK	25	0	18.60	18.63	18.55	18.47		
10	QPSK	25	12	18.44	18.61	18.40	18.57	19.5	0
10	QPSK	25	37	18.47	18.61	18.47	18.50		
10	QPSK	50	0	18.59	18.61	18.54	18.50		
10	16QAM	1	0	18.46	18.53	18.41	18.57	19.5	0
10	16QAM	1	25	18.39	18.57	18.39	18.52		
10	16QAM	1	49	18.62	18.60	18.46	18.55		
10	16QAM	25	0	18.41	18.49	18.47	18.55		
10	16QAM	25	12	18.42	18.51	18.39	18.45	19.5	0
10	16QAM	25	25	18.57	18.60	18.48	18.47		
10	16QAM	50	0	18.43	18.63	18.47	18.57		
10	16QAM	1	0	18.44	18.48	18.37	18.48	19.5	0
10	16QAM	1	25	18.63	18.62	18.56	18.58		
10	16QAM	1	49	18.45	18.49	18.38	18.51		
10	16QAM	25	0	18.46	18.54	18.44	18.48		
10	16QAM	25	12	18.44	18.64	18.54	18.58	19.5	0
10	16QAM	50	0	18.61	18.61	18.57	18.52		
10	16QAM	50	0	18.44	18.51	18.45	18.42		
10	256QAM	1	0	18.25	18.25	18.25	18.32	19.5	0
10	256QAM	1	25	18.25	18.25	18.20	18.15		
10	256QAM	1	49	18.26	18.38	18.13	18.21		
10	256QAM	25	0	18.22	18.22	18.16	18.17	19.5	0
10	256QAM	25	12	18.01	18.16	18.17	18.08		
10	256QAM	25	25	18.13	18.24	18.22	18.18		
10	256QAM	50	0	18.25	18.25	18.11	18.18		
Channel									
Frequency (MHz)									
5	QPSK	1	0	18.64	18.60	18.47	18.53	19.5	0
5	QPSK	1	12	18.64	18.62	18.40	18.55		
5	QPSK	1	25	18.49	18.59	18.43	18.53		
5	QPSK	12	0	18.66	18.60	18.49	18.50		
5	QPSK	12	7	18.49	18.49	18.41	18.50	19.5	0
5	QPSK	12	19	18.49	18.49	18.37	18.52		
5	QPSK	25	0	18.59	18.59	18.50	18.50		
5	16QAM	1	0	18.41	18.40	18.40	18.40	19.5	0
5	16QAM	1	12	18.47	18.48	18.37	18.47		
5	16QAM	1	24	18.58	18.62	18.52	18.50		
5	16QAM	12	0	18.42	18.42	18.37	18.50		
5	16QAM	12	7	18.47	18.55	18.44	18.48	19.5	0
5	16QAM	12	13	18.64	18.60	18.56	18.58		
5	16QAM	12	19	18.60	18.58	18.42	18.56		
5	16QAM	1	0	18.44	18.40	18.43	18.53	19.5	0
5	16QAM	1	12	18.63	18.62	18.50	18.50		
5	16QAM	1	19	18.41	18.49	18.38	18.50		
5	16QAM	12	0	18.47	18.62	18.53	18.49		
5	16QAM	12	13	18.48	18.41	18.41	18.55	19.5	0
5	16QAM	25	0	18.49	18.53	18.37	18.51		
5	256QAM	1	12	18.25	18.25	18.20	18.14		
5	256QAM	1	24	18.22	18.28	18.13	18.21	19.5	0
5	256QAM	12	0	18.24	18.24	18.18	18.24		
5	256QAM	12	7	18.00	18.20	18.14	18.16		
5	256QAM	12	13	18.16	18.20	18.18	18.06	19.5	0
5	256QAM	12	19	18.15	18.25	18.11	18.20		
5	256QAM	25	0	18.25	18.25	18.25	18.25		

DSI 4 Power for WWAN Main PA

GSM850 Ant0 Default								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.93	33.09	33.05	34.00	23.93	24.09	24.05	25.00
GPRS 1 Tx slot	32.97	33.13	33.07	34.00	23.97	24.13	24.07	25.00
GPRS 2 Tx slots	30.09	30.12	30.04	31.00	24.09	24.12	24.04	25.00
GPRS 3 Tx slots	28.23	28.34	28.19	29.20	23.97	24.08	23.93	24.94
GPRS 4 Tx slots	26.91	26.95	26.88	28.00	23.91	23.95	23.88	25.00
EDGE 1 Tx slot	27.01	27.13	27.08	28.00	18.01	18.13	18.08	19.00
EDGE 2 Tx slots	24.17	24.25	24.10	25.00	18.17	18.25	18.10	19.00
EDGE 3 Tx slots	22.31	22.41	22.28	23.20	18.05	18.15	18.02	18.94
EDGE 4 Tx slots	21.12	21.17	21.04	22.00	18.12	18.17	18.04	19.00

WCDMA V Ant0 Default				
Band	WCDMA V			Tune-up Limit (dBm)
TX Channel	4132	4132	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	826.4	836.4	846.6	
3GPP Rel 99 AMR 12.2kbps	23.98	24.11	24.08	25.00
3GPP Rel 99 RMC 12.2kbps	24.04	24.16	24.13	25.00
3GPP Rel 6 HSDPA Subtest-1	23.15	23.15	23.11	24.00
3GPP Rel 6 HSDPA Subtest-2	23.09	23.15	23.07	24.00
3GPP Rel 6 HSDPA Subtest-3	22.54	22.69	22.61	23.50
3GPP Rel 6 HSDPA Subtest-4	22.56	22.63	22.57	23.50
3GPP Rel 8 DC-HSDPA Subtest-1	23.03	23.14	23.10	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	23.04	23.14	23.06	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	22.45	22.60	22.53	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	22.43	22.58	22.50	23.50
3GPP Rel 6 HSUPA Subtest-1	22.98	23.03	23.05	24.00
3GPP Rel 6 HSUPA Subtest-2	21.08	21.21	21.06	22.00
3GPP Rel 6 HSUPA Subtest-3	22.09	22.26	22.21	23.00
3GPP Rel 6 HSUPA Subtest-4	21.06	21.11	21.03	22.00
3GPP Rel 6 HSUPA Subtest-5	23.02	23.11	23.05	24.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	20.57	20.76	20.64	21.50

Band 5 Main PA Ant0														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	APPR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	24.45	24.56	24.50	25.5	0						
10	QPSK	1	25	24.40	24.48	24.43								
10	QPSK	1	49	24.35	24.52	24.34								
10	QPSK	25	0	23.48	23.55	23.54	24.5	1						
10	QPSK	25	12	23.43	23.47	23.50								
10	QPSK	25	25	23.34	23.50	23.49								
10	QPSK	50	0	23.43	23.54	23.47	24.5	1						
10	16QAM	1	0	23.79	23.84	23.79								
10	16QAM	1	25	23.72	23.71	23.68								
10	16QAM	1	49	23.68	23.73	23.69	23.5	2						
10	16QAM	25	0	22.39	22.52	22.41								
10	16QAM	25	12	22.37	22.48	22.39								
10	16QAM	25	25	22.36	22.44	22.34	22.5	3						
10	16QAM	50	0	22.30	22.48	22.31								
10	84QAM	1	0	22.59	22.68	22.58								
10	84QAM	1	25	22.49	22.59	22.54	20.5	5						
10	84QAM	1	49	22.51	22.57	22.44								
10	84QAM	25	0	21.38	21.46	21.39								
10	84QAM	25	12	21.32	21.48	21.38	20.5	5						
10	84QAM	25	25	21.28	21.37	21.36								
10	84QAM	50	0	21.23	21.51	21.28								
10	256QAM	1	0	19.41	19.56	19.51	20.5	5						
10	256QAM	1	25	19.38	19.96	19.43								
10	256QAM	1	49	19.38	19.56	19.44								
10	256QAM	25	0	19.33	19.45	19.37	20.5	5						
10	256QAM	25	12	19.24	19.49	19.24								
10	256QAM	25	25	19.34	19.40	19.34								
10	256QAM	50	0	19.43	19.49	19.41	20.5	5						
Channel														
828.5 836.5 846.5														
5	QPSK	1	0	24.32	24.32	24.41	25.5	0						
5	QPSK	1	12	24.31	24.43	24.40								
5	QPSK	1	24	24.29	24.40	24.22								
5	QPSK	12	0	23.36	23.53	23.45	24.5	1						
5	QPSK	12	7	23.39	23.36	23.38								
5	QPSK	12	13	23.20	23.37	23.28								
5	QPSK	25	0	23.36	23.48	23.38	24.5	1						
5	16QAM	1	0	23.76	23.79	23.72								
5	16QAM	1	12	23.69	23.60	23.54								
5	16QAM	1	24	23.58	23.51	23.52	23.5	2						
5	16QAM	12	0	22.29	22.44	22.32								
5	16QAM	12	7	22.27	22.39	22.27								
5	16QAM	25	0	22.27	22.38	22.25	22.5	2						
5	84QAM	1	0	22.48	22.81	22.42								
5	84QAM	1	12	22.44	22.82	22.35								
5	84QAM	1	24	22.44	22.82	22.35	22.5	3						
5	84QAM	12	0	21.33	21.34	21.53								
5	84QAM	12	7	21.36	21.41	21.28								
5	84QAM	12	13	21.32	21.37	21.24	20.5	2						
5	84QAM	25	0	22.27	22.38	22.25								
5	84QAM	25	12	22.27	22.39	22.27								
5	84QAM	25	25	22.27	22.38	22.25	20.5	5						
5	84QAM	50	0	22.48	22.81	22.42								
5	256QAM	1	0	21.33	21.34	21.53								
5	256QAM	1	12	21.36	21.41	21.28	20.5	5						
5	256QAM	1	24	21.33	21.34	21.53								
5	256QAM	12	0	19.33	19.43	19.29								
Channel														
824.7 838.5 848.3														
3	QPSK	1	0	24.34	24.42	24.43	25.5	0						
3	QPSK	1	8	24.35	24.43	24.29								
3	QPSK	1	14	24.22	24.45	24.29								
3	QPSK	8	0	23.37	23.51	23.41	24.5	1						
3	QPSK	8	4	23.35	23.38	23.41								
3	QPSK	8	7	23.26	23.47	23.26								
3	16QAM	1	0	23.36	23.48	23.34	24.5	1						
3	16QAM	1	0	23.70	23.71	23.68								
3	16QAM	1	8	23.58	23.68	23.54								
3	16QAM	1	14	23.42	23.58	23.68	23.5	2						
3	16QAM	8	0	22.26	22.42	22.37								
3	16QAM	8	4	22.32	22.42	22.20								
3	16QAM	8	7	22.32	22.38	22.34	23.5	2						
3	16QAM	15	0	22.17	22.34	22.17								
3	84QAM	1	0	22.68	22.83	22.63								
3	84QAM	1	8	22.44	22.54	22.40	22.5	3						
3	84QAM	1	14	22.44	22.56	22.40								
3	84QAM	8	0	21.25	21.41	21.36								
3	84QAM	8	4	21.34	21.35	21.15	20.5	5						
3	84QAM	8	7	21.17	21.27	21.27								
3	84QAM	15	0	21.08	21.38	21.17								
3	256QAM	1	0	19.35	19.47	19.38	20.5	5						
3	256QAM	1	8	19.27	19.54	19.23								
3	256QAM	1	14	19.34	19.43	19.33								
3	256QAM	8	0	19.27	19.32	19.22	20.5	5						
3	256QAM	8	4	19.12	19.39	19.18								
3	256QAM	8	7	19.30	19.36	19.30								
3	256QAM	15	0	19.35	19.40	19.26	20.5	5						
Channel														
824.7 838.5 848.3														
1.4	QPSK	1	0	24.34	24.42	24.43	25.5	0						
1.4	QPSK	1	3	24.30	24.41	24.37								
1.4	QPSK	1	5	24.31	24.48	24.26								
1.4	QPSK	3	0	24.36	24.42	24.37	24.5	1						
1.4	QPSK	3	1	24.36	24.41	24.36								
1.4	QPSK	3	3	24.20	24.45	24.23								
1.4	QPSK	8	0	23.42	23.50	23.41	24.5	1						
1.4	16QAM	1	0	23.39	23.39	23.35								
1.4	16QAM	1	3	23.21	23.40	23.35								
1.4	16QAM	1	5	23.36	23.39	23.32	23.5	2						
1.4	16QAM	3	0	23.72	23.76	23.70								
1.4	16QAM	3	1	23.66	23.67	23.64								
1.4	16QAM	3	3	23.62	23.67	23.63	23.5	2						
1.4	16QAM	8	0	22.24	22.46	22.38								
1.4	84QAM	1	0	22.28	22.36	22.26								
1.4	84QAM	1	3	22.29	22.36	22.28	23.5	2						
1.4	84QAM	1	5	22.26	22.38	22.23								
1.4	84QAM	3	0	22.46	22.60	22.44								
1.4	84QAM	3	1	22.41	22.61	22.45	22.5	3						
1.4	84QAM	3	3	22.39	22.60	22.34								
1.4	84QAM	8	0	21.26	21.34	21.29								
1.4	256QAM	1	0	19.32	19.48	19.47	20.5	5						
1.4	256QAM	1	3	19.28	19.40	19.37								
1.4	256QAM	1	5	19.34	19.46	19.39	20.5	5						
1.4	256QAM	3	0	19.17	19.35	19.11								
1.4	256QAM	3	1	19.29	19.33	19.21	20.5	5						
1.4	256QAM	3	3	19.42	19.36	19.30								

Band 26 Main PA Ant0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	APPR (dB)			
Channel				2615.0	2666.5	2666.5	25.5	0			
Frequency (MHz)				815.5	831.5	844.5					
15	QPSK	1	0	24.52	24.58	24.49					
15	QPSK	1	31	24.45	24.51	24.45	25.5	1			
15	QPSK	1	74	24.42	24.53	24.47					
15	QPSK	36	0	23.48	23.63	23.52					
15	QPSK	36	20	23.43	23.55	23.50	24.5	1			
15	QPSK	36	39	23.52	23.60	23.51					
15	QPSK	75	0	23.54	23.57	23.47					
15	16QAM	1	0	23.48	23.56	23.45	24.5	1			
15	16QAM	1	31	23.35	23.51	23.37					
15	16QAM	1	74	23.42	23.54	23.47					
15	16QAM	36	0	22.42	22.47	22.42	23.5	2			
15	16QAM	36	20	22.45	22.50	22.45					
15	16QAM	36	39	22.53	22.57	22.43					
15	16QAM	75	0	22.50	22.54	22.49	23.5	2			
15	64QAM	1	0	22.59	22.70	22.58					
15	64QAM	1	31	22.63	22.68	22.54					
15	64QAM	1	74	22.63	22.66	22.50	22.5	3			
15	64QAM	36	0	21.25	21.37	21.34					
15	64QAM	36	20	21.41	21.55	21.43					
15	64QAM	36	39	21.45	21.52	21.44	20.5	5			
15	64QAM	75	0	21.41	21.54	21.43					
15	256QAM	1	0	19.58	19.68	19.59					
15	256QAM	1	31	19.42	19.57	19.49	20.5	5			
15	256QAM	1	74	19.60	19.74	19.69					
15	256QAM	36	0	19.35	19.42	19.38					
15	256QAM	36	20	19.48	19.52	19.43	20.5	5			
15	256QAM	36	39	19.46	19.55	19.50					
15	256QAM	75	0	19.38	19.51	19.47					
Channel				2674.0	2666.5	2666.5	25.5	0			
Frequency (MHz)				819	831.5	844					
10	QPSK	1	0	24.42	24.44	24.36	25.5	0			
10	QPSK	1	25	24.39	24.46	24.31					
10	QPSK	1	49	24.28	24.42	24.42					
10	QPSK	25	0	23.43	23.52	23.46	24.5	1			
10	QPSK	25	12	23.29	23.45	23.40					
10	QPSK	25	25	23.48	23.48	23.47					
10	QPSK	50	0	23.42	23.49	23.43	24.5	1			
10	16QAM	1	0	23.41	23.48	23.39					
10	16QAM	1	25	23.33	23.47	23.31					
10	16QAM	1	49	23.35	23.51	23.34	23.5	2			
10	16QAM	25	0	22.36	22.35	22.38					
10	16QAM	25	12	22.35	22.56	22.42					
10	16QAM	25	25	22.40	22.44	22.38	23.5	2			
10	64QAM	1	0	22.50	22.55	22.45					
10	64QAM	1	25	22.50	22.53	22.45					
10	64QAM	1	49	22.53	22.51	22.54	22.5	3			
10	64QAM	25	0	21.18	21.31	21.25					
10	64QAM	25	12	21.32	21.52	21.37					
10	64QAM	25	25	21.32	21.38	21.34	20.5	5			
10	64QAM	50	0	21.34	21.50	21.33					
10	256QAM	1	0	19.45	19.53	19.39					
10	256QAM	1	25	19.32	19.42	19.42	20.5	5			
10	256QAM	1	49	19.54	19.65	19.58					
10	256QAM	25	0	19.36	19.26	19.33					
10	256QAM	25	12	19.43	19.41	19.29	20.5	5			
10	256QAM	50	0	19.28	19.40	19.38					
Channel				2671.5	2666.5	2702.5	25.5	0			
Frequency (MHz)				816.5	831.5	846.5					
5	QPSK	1	0	24.44	24.46	24.38	25.5	0			
5	QPSK	1	12	24.32	24.38	24.25					
5	QPSK	1	24	24.34	24.45	24.39					
5	QPSK	12	0	23.45	23.57	23.46	24.5	1			
5	QPSK	12	7	23.29	23.45	23.45					
5	QPSK	12	13	23.48	23.53	23.38					
5	QPSK	36	0	23.42	23.47	23.39	24.5	1			
5	16QAM	1	0	23.41	23.44	23.33					
5	16QAM	1	12	23.21	23.44	23.22					
5	16QAM	1	24	23.37	23.45	23.34	23.5	2			
5	16QAM	12	0	22.34	22.44	22.34					
5	16QAM	12	7	22.35	22.55	22.42					
5	16QAM	12	13	22.47	22.45	22.39	23.5	2			
5	64QAM	1	0	22.54	22.59	22.53					
5	64QAM	1	14	22.50	22.54	22.46					
5	64QAM	1	24	22.52	22.59	22.79	22.5	3			
5	64QAM	12	0	21.20	21.30	21.21					
5	64QAM	12	7	21.31	21.43	21.37					
5	64QAM	12	13	21.38	21.42	21.37	20.5	5			
5	64QAM	25	0	21.27	21.45	21.39					
5	256QAM	1	0	19.45	19.51	19.45					
5	256QAM	1	12	19.29	19.53	19.36	20.5	5			
5	256QAM	1	24	19.54	19.66	19.55					
5	256QAM	12	0	19.24	19.31	19.26					
5	256QAM	12	7	19.36	19.41	19.37	20.5	5			
5	256QAM	12	13	19.35	19.42	19.43					
5	256QAM	25	0	19.32	19.38	19.38					
Channel				2670.5	2666.5	2702.5	25.5	0			
Frequency (MHz)				815.5	831.5	847.5					
3	QPSK	1	0	24.43	24.52	24.37	25.5	0			
3	QPSK	1	8	24.37	24.42	24.32					
3	QPSK	1	14	24.34	24.45	24.43					
3	QPSK	8	0	23.34	23.51	23.42	24.5	1			
3	QPSK	8	4	23.29	23.45	23.36					
3	QPSK	8	7	23.37	23.46	23.43					
3	QPSK	15	0	23.46	23.52	23.42	24.5	1			
3	16QAM	1	0	23.44	23.52	23.37					
3	16QAM	1	8	23.27	23.45	23.31					
3	16QAM	1	14	23.30	23.45	23.36	23.5	2			
3	16QAM	8	0	22.34	22.42	22.32					
3	16QAM	8	4	22.42	22.53	22.39					
3	16QAM	8	7	22.43	22.57	22.46	22.5	3			
3	64QAM	1	0	22.37	22.47	22.46					
3	64QAM	1	8	22.46	22.57	22.44					
3	64QAM	1	8	22.48	22.61	22.50	20.5	5			
3	64QAM	1	14	22.79	22.86	22.76					
3	64QAM	8	0	21.13	21.28	21.21					
3	64QAM	8	4	21.37	21.45	21.38	20.5	5			
3	64QAM	8	7	21.36	21.38	21.34					
3	64QAM	15	0	21.28	21.45	21.36					
3	256QAM	1	0	19.43	19.56	19.55	20.5	5			
3	256QAM	1	8	19.30	19.45	19.39					
3	256QAM	1	14	19.46	19.71	19.61					
3	256QAM	8					20.5	5			
3	256QAM	8									
3	256QAM	15	0	19.34	19.48	19.43					
Channel				2669.7	2666.5	2703.0	25.5	0			
Frequency (MHz)				814.7	831.5	847.5					
1.4	QPSK	1	0	24.44	24.54	24.44	25.5	0			
1.4	QPSK	1	5	24.34	24.38	24.36					
1.4	QPSK	1	5	24.35	24.50	24.41					
1.4	QPSK	1	5	24.41	24.48	24.44	24.5	1			
1.4	QPSK	3	0	24.37	24.45	24.28					
1.4	QPSK	3	2	24.36	24.59	24.39					
1.4	QPSK	3	2	24.34	24.59	24.39	24.5	1			
1.4	16QAM	1	0	23.33	23.43	23.33					
1.4	16QAM	1	5	23.37	23.43	23.28					
1.4	16QAM	1	5	23.47	23.54	23.34	24.5	1			
1.4	16QAM	3	0	23.38	23.42	23.40					
1.4	16QAM	3	2	23.24	23.48	23.46					
1.4	16QAM	6	0	22.38	22.40	22.32	23.5	2			
1.4	16QAM	6	2	22.49	22.47	22.41					
1.4	16QAM	6	2	22.43	22.47	22.43					
1.4	16QAM	6	2	22.43	22.48	22.38	23.5	2			
1.4	64QAM	3	0	22.59	22.58	22.50					
1.4	64QAM	3	2	22.50	22.59	22.47					
1.4	64QAM	3	2	22.56	22.79	22.75	22.5	3			
1.4	64QAM	6	0	21.47	21.57	21.47					
1.4	64QAM	6	2	21.54	21.61	21.45					
1.4	64QAM	3	0	19.35	19.48	19.48	20.5	5			
1.4	64QAM	3	2	19.46	19.54	19.56					
1.4	64QAM	3	2	19.52	19.28	19.27					
1.4	256QAM	3	0	19.34	19.49	19.33	20.5	5			
1.4	256QAM	3	2	19.43	19.48	19.46					
1.4	256QAM	6	0	19.26	19.47	19.42					

GSM850 Ant1 DS4								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)		Tune-up Limit (dBm)	
	128	189	251		128	189		251
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)								
GSM 1 Tx slot	31.11	31.21	31.17	32.50	22.11	22.21	22.17	23.50
GPRS 1 Tx slot	31.15	31.23	31.20	32.50	22.15	22.23	22.20	23.50
GPRS 2 Tx slots	27.89	28.11	28.03	29.50	21.89	22.11	22.03	23.50
GPRS 3 Tx slots	26.22	26.33	26.35	27.50	21.96	22.07	22.09	23.24
GPRS 4 Tx slots	24.80	24.98	24.95	26.50	21.80	21.98	21.95	23.50
EDGE 1 Tx slot	25.05	25.12	25.00	26.50	16.05	16.12	16.00	17.50
EDGE 2 Tx slots	22.22	22.23	22.18	23.50	16.22	16.23	16.18	17.50
EDGE 3 Tx slots	20.44	20.49	20.45	21.70	16.18	16.23	16.19	17.44
EDGE 4 Tx slots	19.28	19.27	19.26	20.50	16.28	16.27	16.26	17.50

		GSM1900 Ant1 DS4						
		Burst Average Power (dBm)			Tuneup Limit (dBm)	Frame-Average Power (dBm)		
		512	661	810		512	661	810
TX Channel		1850.2	1880	1909.8		1850.2	1880	1909.8
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8
GSM 1 Tx slot		22.38	22.45	22.38	24.00	13.38	13.45	13.38
GPRS 1 Tx slot		22.39	22.49	22.41	24.00	13.39	13.49	13.41
GPRS 2 Tx slots		19.53	19.61	19.54	21.00	13.53	13.61	13.54
GPRS 3 Tx slots		17.87	17.93	17.92	19.20	13.61	13.67	13.66
GPRS 4 Tx slots		16.53	16.59	16.34	18.00	13.46	13.53	13.34
EDGE 1 Tx slot		18.39	18.56	18.41	20.00	9.39	9.56	9.41
EDGE 2 Tx slots		15.82	15.90	15.80	17.00	9.82	9.90	9.80
EDGE 3 Tx slots		13.67	13.70	13.58	15.20	9.41	9.44	9.32
EDGE 4 Tx slots		12.67	12.88	12.80	14.00	9.67	9.88	9.80

		WCDMA II Ant1 DS4						WCDMA IV Ant1 DS4						WCDMA V Ant1 DS4					
Band	TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)						
	Rx Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233							
Frequency (MHz)		9662	9800	9938	1537	1638	1738	1738	4357	4407	4458	4458	4558						
3GPP Rel 99	AMR 12.2kbps	15.63	15.67	15.58	17.50	17.03	17.20	17.03	19.00	21.83	21.79	21.77	23.50						
3GPP Rel 99	RMC 12.2kbps	15.57	15.68	15.66	17.50	17.12	17.26	17.24	19.00	21.73	21.93	21.90	23.50						
3GPP Rel 6	HSDPA Subtest-1	14.59	14.81	14.65	16.50	16.15	16.28	16.29	18.00	20.94	20.77	20.73	22.50						
3GPP Rel 6	HSDPA Subtest-2	14.52	14.78	14.73	16.50	16.13	16.20	16.06	18.00	20.65	20.84	20.72	22.50						
3GPP Rel 6	HSDPA Subtest-3	14.24	14.17	14.14	16.00	15.60	15.67	15.74	17.50	20.21	20.39	20.35	22.00						
3GPP Rel 6	HSDPA Subtest-4	14.20	14.23	14.21	16.00	15.52	15.65	15.62	17.50	20.19	20.38	20.37	22.00						
3GPP Rel 8	DC-HSDPA Subtest-1	14.65	14.66	14.71	16.50	16.10	16.25	16.01	18.00	20.89	20.88	20.80	22.50						
3GPP Rel 8	DC-HSDPA Subtest-2	14.72	14.76	14.67	16.50	16.05	16.02	16.03	18.00	20.77	20.75	20.77	22.50						
3GPP Rel 8	DC-HSDPA Subtest-3	14.03	14.09	14.21	16.00	15.63	15.67	16.01	17.50	20.19	20.26	20.19	22.00						
3GPP Rel 8	DC-HSDPA Subtest-4	14.19	14.32	14.14	16.00	15.56	15.53	15.53	17.50	20.07	20.30	20.30	22.00						
3GPP Rel 6	HSUPA Subtest-1	14.73	14.54	14.61	16.50	16.08	16.10	16.03	18.00	20.59	20.66	20.66	22.50						
3GPP Rel 6	HSUPA Subtest-2	12.68	12.59	12.69	14.50	14.07	14.10	14.14	16.00	18.75	18.96	18.97	20.50						
3GPP Rel 6	HSUPA Subtest-3	13.69	13.85	13.83	15.50	15.03	15.23	15.18	17.00	19.83	20.02	19.82	21.50						
3GPP Rel 6	HSUPA Subtest-4	12.57	12.66	12.71	14.50	13.95	14.00	14.04	16.00	18.59	18.82	18.86	20.50						
3GPP Rel 6	HSUPA Subtest-5	14.53	14.73	14.69	16.50	16.07	16.02	16.15	18.00	20.56	20.74	20.68	22.50						
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	12.33	12.38	12.18	14.00	13.57	13.61	13.63	15.50	18.37	18.61	18.46	20.00						

Band 4 Main PA Ant1 DSI4													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	14.46	14.62	14.87	16	0					
20	QPSK	1	49	14.28	14.42	14.43							
20	QPSK	1	99	14.14	14.28	14.36							
20	QPSK	50	0	14.28	14.35	14.42							
20	QPSK	50	24	14.20	14.27	14.31	16	0					
20	QPSK	50	50	14.23	14.31	14.38							
20	QPSK	100	0	14.28	14.35	14.42							
20	16QAM	1	0	14.42	14.56	14.47							
20	16QAM	1	49	14.12	14.30	14.38	16	0					
20	16QAM	1	99	14.29	14.25	14.09							
20	16QAM	50	0	14.47	14.39	14.33							
20	16QAM	50	24	14.30	14.17	14.13							
20	16QAM	100	0	14.30	14.41	14.21	16	0					
20	84QAM	1	0	14.30	14.43	14.11							
20	84QAM	1	49	14.29	14.23	14.52							
20	84QAM	50	24	14.18	14.23	14.29							
20	84QAM	100	0	14.09	14.23	14.08	16	0					
20	84QAM	100	0	14.17	14.21	14.08							
20	256QAM	1	0	14.23	14.31	14.13							
20	256QAM	1	99	14.26	14.14	14.25							
20	256QAM	50	24	14.23	14.24	14.19	16	0					
20	256QAM	50	50	14.30	14.40	14.14							
20	256QAM	100	0	14.18	14.29	14.17							
20	256QAM	100	0	14.18	14.29	14.17							
Channel													
Frequency (MHz)													
16	QPSK	1	0	17.15	17.15	17.15	16	0					
16	QPSK	1	0	14.63	14.47	14.44							
16	QPSK	1	43	14.46	14.48	14.26							
16	QPSK	1	74	14.23	14.37	14.27							
16	QPSK	36	0	14.09	14.48	14.12	16	0					
16	QPSK	36	20	14.10	14.20	14.24							
16	QPSK	36	39	14.12	14.11	14.16							
16	QPSK	75	0	14.11	14.28	14.11							
16	16QAM	1	0	14.28	14.39	14.23	16	0					
16	16QAM	1	37	14.22	14.45	14.21							
16	16QAM	1	74	14.17	14.21	14.08							
16	16QAM	36	0	14.49	14.19	14.19							
16	16QAM	36	20	14.21	14.22	14.10	16	0					
16	16QAM	36	39	14.21	14.48	14.23							
16	16QAM	75	0	14.24	14.24	14.23							
16	84QAM	1	0	14.33	14.50	14.20							
16	84QAM	1	37	14.43	14.37	14.08	16	0					
16	84QAM	1	74	14.18	14.25	14.24							
16	84QAM	36	0	14.24	14.22	14.14							
16	84QAM	36	39	14.14	14.25	14.14							
16	84QAM	75	0	14.03	14.05	14.23	16	0					
16	84QAM	75	0	14.03	14.05	14.23							
16	256QAM	1	0	14.03	14.03	14.03							
16	256QAM	1	37	14.08	14.26	14.00							
16	256QAM	1	74	14.19	14.10	14.14	16	0					
16	256QAM	36	20	14.02	14.02	14.02							
16	256QAM	36	39	14.08	14.05	14.10							
16	256QAM	75	0	14.13	14.16	14.24							
16	256QAM	75	0	14.13	14.16	14.24	16	0					
16	256QAM	75	0	14.13	14.16	14.24							
Channel													
Frequency (MHz)													
20	QPSK	1	0	17.15	17.15	17.15	16	0					
20	QPSK	1	25	14.30	14.39	14.53							
20	QPSK	1	49	14.34	14.38	14.34							
20	QPSK	25	12	14.11	14.28	14.18							
20	QPSK	25	25	14.28	14.28	14.16	16	0					
20	QPSK	25	39	14.11	14.28	14.18							
20	QPSK	50	0	14.22	14.32	14.37							
20	16QAM	1	0	14.22	14.32	14.37							
20	16QAM	1	25	14.29	14.26	14.14	16	0					
20	16QAM	1	49	14.20	14.15	14.08							
20	16QAM	25	0	14.31	14.27	14.30							
20	16QAM	25	12	14.28	14.08	14.19							
20	16QAM	50	0	14.19	14.00	14.00	16	0					
20	16QAM	50	24	14.03	14.44	14.30							
20	84QAM	1	0	14.47	14.50	14.03							
20	84QAM	1	24	14.26	14.57	14.03							
20	84QAM	1	49	14.21	14.11	14.23	16	0					
20	84QAM	25	0	14.22	14.21	14.21							
20	84QAM	25	12	14.05	14.40	14.20							
20	84QAM	25	25	14.23	14.17	14.26							
20	84QAM	50	0	14.23	14.05	14.20	16	0					
20	84QAM	50	0	14.18	14.15	14.25							
20	256QAM	1	25	14.19	14.21	14.06							
20	256QAM	1	49	14.08	14.17	14.08							
20	256QAM	25	0	14.14	14.12	14.24	16	0					
20	256QAM	25	12	14.22	14.14	14.28							
20	256QAM	25	25	14.15	14.25	14.23							
20	256QAM	50	0	14.12	14.16	14.26							
20	256QAM	50	0	14.12	14.16	14.26							
20	256QAM	50	12	14.22	14.14	14.28							
Channel													
Frequency (MHz)													
5	QPSK	1	0	14.43	14.54	14.33	16	0					
5	QPSK	1	12	14.33	14.47	14.39							
5	QPSK	1	24	14.35	14.33	14.15							
5	QPSK	12	0	14.17	14.41	14.15							
5	QPSK	12	7	14.10	14.26	14.09	16	0					
5	QPSK	12	13	14.23	14.22	14.13							
5	QPSK	20	0	14.21	14.35	14.12							
5	16QAM	1	0	14.37	14.32	14.20							
5	16QAM	1	12	14.33	14.39	14.33	16	0					
5	16QAM	1	24	14.15	14.28	14.21							
5	16QAM	12	0	14.41	14.31	14.19							
5	16QAM	12	7	14.25	14.02	14.23							
5	16QAM	12	13	14.10	14.40	14.18	16	0					
5	16QAM	25	0	14.11	14.22	14.07							
5	84QAM	1	0	14.39	14.46	14.30							
5	84QAM	1	12	14.40	14.29	14.20							
5	84QAM	1	24	14.21	14.32	14.20	16	0					
5	84QAM	12	0	14.18	14.11	14.15							
5	84QAM	12	7	14.21	14.16	14.21							
5	84QAM	12	13	14.21	14.16	14.15							
5	84QAM	20	0	14.16	14.05	14.06	16	0					
5	84QAM	20	0	14.16	14.05	14.06							
5	84QAM	20	12	14.22	14.14	14.28							
5	84QAM	20	13	14.19	14.18	14.24							
5	256QAM	25	0	14.11	14.24	14.11	16	0					
5	256QAM	25	0	14.11	14.24	14.11							
5	256QAM	25	12	14.22	14.14	14.28							
5	256QAM	25	13	14.19	14.18	14.24							
5	256QAM	25	25	14.15	14.25	14.23							
5	256QAM	25	25	14.15	14.25	14.23							
Channel													
Frequency (MHz)													
3	QPSK	1	0	14.56	14.49	14.48	16	0					
3	QPSK	1	7	14.29	14.40	14.37							
3	QPSK	1	14	14.24	14.37	14.34							
3	QPSK	8	0	14.30	14.28	14.20							
3	QPSK	8	4	14.14	14.20	14.24	16	0					
3	QPSK	8	11	14.15	14.18	14.14							
3	QPSK	16	0	14.05	14.36	14.10							
3	QPSK	16	0	14.33	14.31	14.29							
3	16QAM	1	0	14.18	14.25	14.21	16	0					
3	16QAM	1	14	14.17	14.19	14.24							
3	16QAM	8	0	14.42	14.27	14.27							
3	16QAM	8	4	14.09	14.24	14.24							
3	16QAM	8	7	14.07	14.34	14.24	16	0					
3	16QAM	8	11	14.03	14.22	14.22							
3	16QAM	16	0	14.47	14.43	14.05							
3	84QAM	1	8	14.34	14.32	14.14							
3	84QAM	8	4	14.31	14.31	14.08	16	0					
3	84QAM	8	7	14.09	14.14	14.10							
3	84QAM	8	4	14.05	14.31	14.30							
3	84QAM	8	11	14.27	14.32	14.22							
3	84QAM	16	0	14.09	14.22	14.11	16	0					
3	256QAM	1	0	14.19	14.01	14.03							
3	256QAM	1	8	14.15	14.15	14.15							
3	256QAM	1	14	14.15	14.29	14.24							
3	256QAM	8	0	14.27	14.21	14.11	16	0					
3	256QAM	8	7	14.23	14.18	14.24							
3	256QAM	8	4	14.16	14.19	14.14							
3	256QAM	16	0	14.06	14.14	14.22							
Channel													
Frequency (MHz)													
1.4	QPSK	1	0	17.07	17.05	17.04	16	0					
1.4	QPSK	1	0	14.51	14.48	14.54							
1.4	QPSK	1	0	14.26	14.46	14.47							
1.4	QPSK	1	0	14.22	14.40	14.40							
1.4	QPSK	3	0	14.19	14.38	14.14	16	0					
1.4	QPSK	3	0	14.35	14.35	14.14							
1.4	QPSK	3	3	14.12	14.45	14.27							
1.4	QPSK	3	6	14.16	14.48	14.40							
1.4	16QAM	1	0	14.16	14.31	14.10	16	0					
1.4	16QAM	1	0	14.36	14.38	14.12							
1.4	16QAM	1	3	14.12	14.45	14.27							
1.4	16QAM	1	6	14.17	14.18	14.24							
1.4	16QAM	3	0	14.11	14.23	14.16	16	0					
1.4	16QAM	3	3	14.12	14.39	14.21							
1.4	16QAM	3	6	14.13	14.18	14.14							
1.4	16QAM	3	9	14.28	14.24	14.28							
1.4	84QAM	1	0	14.26	14.24	14.27	16	0					
1.4	84QAM	1	0	14.26	14.24	14.27							
1.4	84QAM	3	0	14.21	14.31	14.29							
1.4	84QAM	3	3	14.23	14.23	14.23							
1.4	84QAM	3	6	14.25	14.17	1							

Band 13 Main PA Ant1 DS14														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power Hgt Ch / Freq.	Time-up (sec)	APR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	23.47			25	0						
5	QPSK	1	25	23.44										
10	QPSK	1	49	23.38			24.5	0						
5	QPSK	25	0	22.60										
10	QPSK	25	12	22.84			24.5	0.5						
5	QPSK	25	25	22.79										
10	QPSK	50	0	22.87			24.5	0.5						
5	16QAM	1	0	22.86										
10	16QAM	1	25	22.79			23.5	1.5						
5	16QAM	1	49	22.75										
10	16QAM	25	0	21.89			23.5	1.5						
5	16QAM	25	12	21.81										
10	16QAM	25	25	21.86			22.5	2.5						
5	16QAM	50	0	21.79										
10	16QAM	1	0	22.07			20.5	4.5						
5	16QAM	1	25	22.01										
10	16QAM	1	49	21.90			20.5	4.5						
5	16QAM	25	0	20.87										
10	16QAM	25	12	20.78			20.5	4.5						
5	16QAM	25	25	20.83										
10	16QAM	50	0	20.75			20.5	4.5						
5	256QAM	1	0	18.94										
10	256QAM	1	25	18.91			20.5	4.5						
5	256QAM	1	49	18.88										
10	256QAM	25	0	18.88			20.5	4.5						
5	256QAM	25	12	18.78										
10	256QAM	25	25	18.84			20.5	4.5						
5	256QAM	50	0	18.81										
Channel														
Frequency (MHz)														
5	QPSK	1	0	23.45	23.41	23.35	25	0						
5	QPSK	1	12	23.23	23.27	23.37								
5	QPSK	1	24	23.17	23.20	23.15	24.5	0.5						
5	QPSK	12	0	22.87	22.78	22.85								
5	QPSK	12	7	22.72	22.73	22.73	24.5	0.5						
5	QPSK	12	13	22.73	22.72	22.68								
5	QPSK	25	0	22.84	22.73	22.78	24.5	0.5						
5	16QAM	1	0	22.74	22.71	22.78								
5	16QAM	1	12	22.66	22.71	22.72	23.5	1.5						
5	16QAM	1	24	22.64	22.65	22.71								
5	16QAM	12	0	21.78	21.84	21.78	23.5	1.5						
5	16QAM	12	7	21.69	21.68	21.74								
5	16QAM	12	13	20.73	20.70	20.73	23.5	1.5						
5	16QAM	25	0	21.72	21.75	21.84								
5	16QAM	1	0	21.65	21.65	21.98	22.5	1.5						
5	16QAM	1	12	21.89	21.90	21.94								
5	16QAM	1	24	21.94	21.92	21.83	22.5	2.5						
5	16QAM	12	7	20.67	20.63	20.65								
5	16QAM	12	13	20.76	20.73	20.70	22.5	2.5						
5	16QAM	25	0	20.66	20.64	20.60								
5	256QAM	1	0	18.84	18.81	18.84	20.5	4.5						
5	256QAM	1	12	18.77	18.87	18.82								
5	256QAM	1	24	18.79	18.72	18.78	20.5	4.5						
5	256QAM	12	0	18.74	18.75	18.84								
5	256QAM	12	7	18.72	18.73	18.84	20.5	4.5						
5	256QAM	12	13	18.69	18.76	18.79								
5	256QAM	25	0	18.71	18.75	18.68	20.5	4.5						

Band 26 Main PA Ant1 DS14														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power Hgt Ch / Freq.	Time-up (sec)	APR (dB)						
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.29	821.5	841.5	24	0						
5	QPSK	1	31	22.13	821.5	841.5								
15	QPSK	1	74	22.11	22.03	22.06	24	0						
5	QPSK	36	0	22.16	22.21	22.13								
15	QPSK	36	20	22.08	22.02	22.02	24	0						
5	QPSK	36	39	22.03	22.03	22.07								
15	QPSK	75	0	22.14	22.15	22.01	24	0						
5	16QAM	1	0	22.27	22.21	22.29								
15	16QAM	1	37	22.03	22.24	22.06	23.5	0.5						
5	16QAM	1	74	22.23	22.10	22.11								
15	16QAM	36	0	21.83	21.79	21.82	23.5	0.5						
5	16QAM	36	20	21.83	21.68	21.98								
15	16QAM	36	39	21.88	21.72	21.89	23.5	0.5						
5	16QAM	75	0	21.84	21.84	21.88								
15	16QAM	1	0	21.82	21.92	21.84	22.5	1.5						
5	16QAM	1	37	21.78	21.89	21.80								
15	16QAM	1	74	21.73	21.82	21.71	22.5	1.5						
5	16QAM	36	0	20.84	20.89	20.79								
15	16QAM	36	20	20.74	20.89	20.72	22.5	1.5						
5	16QAM	36	39	20.72	20.85	20.75								
15	16QAM	75	0	20.69	20.77	20.67	20.5	3.5						
5	256QAM	1	0	18.81	18.79	18.83								
15	256QAM	1	37	18.58	18.72	18.64	20.5	3.5						
5	256QAM	1	74	18.64	18.67	18.60								
15	256QAM	36	0	18.51	18.66	18.52	20.5	3.5						
5	256QAM	36	20	18.54	18.58	18.51								
15	256QAM	36	39	18.60	18.62	18.55	20.5	3.5						
5	256QAM	75	0	18.59	18.63	18.56								
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.15	22.22	22.05	24	0						
5	QPSK	1	29	22.12	22.09	22.03								
15	QPSK	1	49	22.03	22.08	22.04	24	0						
5	QPSK	25	0	22.12	22.03	22.02								
15	QPSK	25	12	22.00	22.00	22.06	24	0						
5	QPSK	25	25	22.06	22.04	22.05								
5	QPSK	50	0	22.07	22.09	22.06	24	0						
5	16QAM	1	0	22.10	22.09	22.20								
5	16QAM	1	29	22.06	22.10	22.04	23.5	0.5						
5	16QAM	1	49	21.87	21.82	21.98								
15	16QAM	25	0	21.81	21.82	21.98	23.5	0.5						
5	16QAM	25	12	21.67	21.65	21.53								
15	16QAM	25	25	21.62	21.63	21.55	23.5	0.5						
5	16QAM	50	0	21.58	21.63	21.55								
15	16QAM	1	0	21.72	21.77	21.80	22.5	1.5						
5	16QAM	1	29	21.62	21.75	21.65								
15	16QAM	1	49	21.63	21.75	21.59	22.5	1.5						
5	16QAM	25	0	20.71	20.76	20.68								
15	16QAM	25	12	20.66	20.76	20.68	22.5							



Band 38 Main PA Ant1 DSI4												
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)												
20	QPSK	1	0	19.59	19.57	19.50	21	0				
20	QPSK	1	49	19.56	19.59	19.40						
20	QPSK	1	99	19.40	19.60	19.53						
20	QPSK	50	0	19.47	19.56	19.41	21	0				
20	QPSK	50	24	19.37	19.54	19.19						
20	QPSK	50	49	19.36	19.54	19.32						
20	QPSK	100	0	19.48	19.51	19.49	21	0				
20	16QAM	1	0	19.59	19.54	19.30						
20	16QAM	1	49	19.50	19.54	19.32						
20	16QAM	1	99	19.60	19.57	19.82	21	0				
20	16QAM	50	0	19.32	19.62	19.46						
20	16QAM	50	24	19.40	19.44	19.46						
20	16QAM	50	50	19.26	19.37	19.23	21	0				
20	16QAM	100	0	19.40	19.50	19.41						
20	64QAM	1	0	19.33	19.31	19.51						
20	64QAM	1	49	19.33	19.48	19.16	21	0				
20	64QAM	1	99	19.34	19.49	19.40						
20	64QAM	50	0	19.44	19.42	19.50						
20	64QAM	50	24	19.42	19.41	19.60	21	0				
20	64QAM	50	50	19.40	19.44	19.31						
20	64QAM	100	0	19.43	19.55	19.41						
20	256QAM	1	0	18.51	18.65	18.58	20	1				
20	256QAM	1	49	18.58	18.60	18.52						
20	256QAM	1	99	18.48	18.62	18.67						
20	256QAM	50	0	18.56	18.56	18.66	20	1				
20	256QAM	50	24	18.84	18.87	18.73						
20	256QAM	50	50	18.91	18.86	18.89						
20	256QAM	100	0	18.73	18.73	18.74						
Channel												
Frequency (MHz)												
15	QPSK	1	0	19.69	19.60	19.69	21	0				
15	QPSK	1	37	19.43	19.51	19.29						
15	QPSK	1	74	19.40	19.57	19.38						
15	QPSK	36	0	19.30	19.45	19.38	21	0				
15	QPSK	36	20	19.16	19.49	19.19						
15	QPSK	36	36	19.23	19.28	19.05						
15	16QAM	1	0	19.54	19.48	19.13	21	0				
15	16QAM	1	37	19.56	19.52	19.21						
15	16QAM	1	74	19.42	19.59	19.48						
15	16QAM	36	0	19.32	19.54	19.45	21	0				
15	16QAM	36	20	19.24	19.30	19.15						
15	16QAM	36	36	19.33	19.28	19.05						
15	16QAM	75	0	19.27	19.34	19.46	21	0				
15	64QAM	1	0	19.15	19.37	19.37						
15	64QAM	1	37	19.33	19.15	19.30						
15	64QAM	1	74	19.06	19.17	19.04	21	0				
15	64QAM	36	0	19.20	19.42	19.37						
15	64QAM	36	20	19.34	19.42	19.41						
15	64QAM	75	0	19.32	19.55	19.41	21	0				
15	256QAM	1	0	18.51	18.65	18.58						
15	256QAM	1	37	18.55	18.52	18.46						
15	256QAM	1	74	18.45	18.57	18.51	20	1				
15	256QAM	36	0	18.84	18.85	18.88						
15	256QAM	36	20	18.79	18.83	18.80						
15	256QAM	36	36	18.86	18.86	18.86	20	1				
15	256QAM	75	0	18.60	18.68	18.60						
Channel												
Frequency (MHz)												
10	QPSK	1	0	19.36	19.47	19.40	21	0				
10	QPSK	1	25	19.38	19.49	19.27						
10	QPSK	1	49	19.48	19.62	19.48						
10	QPSK	25	0	19.25	19.40	19.40	21	0				
10	QPSK	25	12	19.23	19.52	19.09						
10	QPSK	25	25	19.21	19.40	19.36						
10	16QAM	1	0	19.38	19.47	19.44	21	0				
10	16QAM	1	0	19.55	19.55	19.19						
10	16QAM	1	25	19.52	19.50	19.31						
10	16QAM	1	49	19.43	19.40	19.45	21	0				
10	16QAM	25	0	19.20	19.28	19.39						
10	16QAM	25	12	19.20	19.36	19.11						
10	16QAM	50	0	19.28	19.33	19.47	21	0				
10	64QAM	1	0	19.10	19.49	19.46						
10	64QAM	1	25	19.21	19.17	19.49						
10	64QAM	1	49	19.07	19.21	19.18	21	0				
10	64QAM	25	0	19.37	19.49	19.42						
10	64QAM	25	12	19.41	19.39	19.52						
10	64QAM	25	25	19.31	19.22	19.12	21	0				
10	64QAM	50	0	19.24	19.36	19.31						
10	256QAM	1	0	18.42	18.59	18.47						
10	256QAM	1	25	18.45	18.61	18.47	20	1				
10	256QAM	1	49	18.43	18.48	18.51						
10	256QAM	25	0	18.88	18.86	18.77						
10	256QAM	25	12	18.77	18.83	18.66	20	1				
10	256QAM	25	25	18.87	18.86	18.76						
10	256QAM	50	0	18.68	18.71	18.67						
Channel												
Frequency (MHz)												
5	QPSK	1	0	19.46	19.50	19.44	21	0				
5	QPSK	1	12	19.37	19.60	19.38						
5	QPSK	1	24	19.27	19.53	19.42						
5	QPSK	12	0	19.34	19.41	19.28	21	0				
5	QPSK	12	7	19.36	19.52	19.09						
5	QPSK	12	19	19.18	19.50	19.42						
5	QPSK	25	0	19.41	19.51	19.35	21	0				
5	16QAM	1	0	19.37	19.48	19.25						
5	16QAM	1	12	19.58	19.42	19.17						
5	16QAM	1	24	19.47	19.46	19.80	21	0				
5	16QAM	12	0	19.32	19.42	19.46						
5	16QAM	12	7	19.43	19.43	19.30						
5	16QAM	12	13	19.20	19.20	19.21	21	0				
5	16QAM	25	0	19.25	19.42	19.41						
5	64QAM	1	0	19.21	19.30	19.80						
5	64QAM	1	12	19.30	19.13	19.46	21	0				
5	64QAM	1	24	19.24	19.26	19.11						
5	64QAM	12	0	19.20	19.42	19.32						
5	64QAM	12	7	19.20	19.39	19.40	21	0				
5	64QAM	12	13	19.43	19.42	19.15						
5	64QAM	25	0	19.37	19.35	19.38						
5	256QAM	1	0	18.40	18.57	18.45	20	1				
5	256QAM	1	12	18.54	18.58	18.41						
5	256QAM	1	24	18.37	18.68	18.43						
5	256QAM	12	0	18.67	18.83	18.72	20	1				
5	256QAM	12	7	18.80	18.84	18.80						
5	256QAM	12	13	18.85	18.89	18.77						
5	256QAM	25	0	18.63	18.68	18.61						

Band 41 Main PA Ant1 DSI4											
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Low Power / Freq	Power Ch / Freq	Power Power / Freq	Power Ch / Freq	Power Ch / Freq	Time-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	19.69	19.73	19.63	19.66	19.78		20.5	0
20	QPSK	1	49	19.65	19.77	19.81	19.80	19.50			
20	QPSK	1	99	19.63	19.71	19.80	19.68	19.81			
20	QPSK	50	0	19.30	19.44	19.37	19.34	19.36		20.5	0
20	QPSK	50	24	19.38	19.39	19.51	19.47	19.33			
20	QPSK	50	49	19.34	19.37	19.43	19.33	19.36			
20	QPSK	100	0	19.37	19.37	19.43	19.33	19.36		20.5	0
20	16QAM	1	0	19.65	19.49	19.61	19.58	19.45			
20	16QAM	1	49	19.33	19.45	19.30	19.42	19.36			
20	16QAM	1	99	19.46	19.56	19.70	19.26	19.43		20.5	0
20	16QAM	50	0	19.43	19.28	19.46	19.50	19.49			
20	16QAM	50	24	19.27	19.45	19.43	19.43	19.43			
20	16QAM	50	49	19.37	19.37	19.63	19.56	19.42		20.5	0
20	64QAM	1	0	19.44	19.49	19.52	19.26	19.50			
20	64QAM	1	49	19.36	19.13	19.40	19.40	19.43			
20	64QAM	1	99	18.97	19.10	19.25	19.03	19.01		20.5	0
20	64QAM	50	0	19.50	19.30	19.37	19.47	19.54			
20	64QAM	50	24	19.40	19.20	19.39	19.34	19.48			
20	64QAM	50	49	19.19	19.26	19.29	19.16	19.20		20.5	0
20	64QAM	100	0	19.24	19.21	19.43	19.40	19.43			
20	64QAM	100	0	19.08	19.03	19.29	19.07	19.11			
20	256QAM	1	0	18.64	18.64	18.81	18.64	18.70		19.5	1
20	256QAM	1	49	18.62	18.70	18.82	18.62	18.68			
20	256QAM	1	99	18.57	18.63	18.68	18.64	18.57			
20	256QAM	50	0	18.97	18.96	18.97	18.96	18.96		19.5	1
20	256QAM	50	24	18.82	18.91	18.97	18.87	18.91			
20	256QAM	50	49	18.79	18.94	19.01	18.92	18.88			
20	256QAM	100	0	18.79	18.94	19.01	18.92	18.88		19.5	1
20	256QAM	100	0	18.79	18.94	19.01	18.92	18.88			
20	256QAM	100	0	18.79	18.94	19.01	18.92	18.88			
Channel											
Frequency (MHz)											
15	QPSK	1	37	19.69	19.62	19.77	19.64	19.39		21	0
15	QPSK	1	74	19.69	19.66	19.78	19.67	19.63			
15	QPSK	1	111	19.67	19.67	19.78	19.67	19.63			
15	QPSK	25	0	19.15	19.27	19.44	19.28	19.19		20.5	0
15	QPSK	25	12	19.22	19.41	19.39	19.39	19.17			
15	QPSK	25	24	19.24	19.24	19.26	19.22	19.24			
15	16QAM	1	0	19.30	19.45	19.47	19.44	19.38		20.5	0
15	16QAM	1	37	19.24	19.15	19.27	19.24	19.21			
15	16QAM	1	74	19.22	19.29	19.48	19.40	19.15			
15	16QAM	25	0	19.26	19.40	19.23	19.47	19.26		20.5	0
15	16QAM	25	12	19.24	19.26	19.48	19.19	19.23			
15	16QAM	25	24	19.26	19.28	19.27	19.34	19.29			
15	64QAM	1	0	19.18	19.42	19.37	19.34	19.29		20.5	0
15	64QAM	1	37	19.12	19.38	19.37	19.34	19.29			
15	64QAM	1	74	18.70	19.02	18.97	19.00	19.07			
15	64QAM	1	111	18.60	18.99	19.07	18.96	19.01		20.5	0
15	64QAM	25	0	18.53	18.74	18.93	18.87	18.87			
15	64QAM	25	12	18.22	18.55	18.34	18.33	18.41			
15	64QAM	25	24	19.08	19.14	19.13	18.92	18.97		20.5	0
15	64QAM	25	49	19.12	19.13	19.13	18.92	19.11			
15	64QAM	75	0	19.01	19.82	19.06	19.02	19.56			
15	256QAM	1	37	18.54	18.62	18.74	18.52	18.59		19.5	1
15	256QAM	1	74	18.53	18.58	18.59	18.60	18.53			
15	256QAM	1	111	18.56	18.61	18.62	18.57	18.71			
15	256QAM	25	0	18.79	18.77	18.91	18.83	18.74		19.5	1
15	256QAM	25	12	18.76	18.92	18.90	18.92	18.86			
15	256QAM	25	24	18.60	18.74	18.80	18.74	18.68			
Channel											
Frequency (MHz)											
10	QPSK	1	0	19.69	19.68	19.62	19.61	19.61		21	0
10	QPSK	1	25	19.69	19.70	19.60	19.53	19.29			
10	QPSK	1	49	19.64	19.64	19.64	19.64	19.64			
10	QPSK	25	0	19.11	19.27	19.54	19.28	19.13		20.5	0
10	QPSK	25	12	19.15	19.14	19.26	19.30	19.08			
10	QPSK	25	24	19.29	19.30	19.29	19.28	19.27			
10	QPSK	50	0	19.22	19.31	19.16	19.12	19.16		20.5	0
10	16QAM	1	0	19.37	19.44	19.43	19.26	19.34			
10	16QAM	1	25	19.24	19.19	19.27	19.27	19.17			
10	16QAM	1	49	19.37	19.51	19.42	19.51	19.34		20.5	0
10	16QAM	25	0	19.16	19.46	19.37	19.28	19.23			
10	16QAM	25	12	19.22	19.20	19.39	19.34	19.24			
10	16QAM	25	24	19.30	19.10	19.44	19.48	19.34		20.5	0
10	64QAM	1	0	19.24	19.23	19.48	19.37	19.23			
10	64QAM	1	0	18.89	19.04	18.99	18.92	18.98			
10	64QAM	1	25	18.95	18.85	19.05	18.96	18.83		20.5	0
10	64QAM	1	49	18.79	18.75	18.94	18.87	18.68			
10	64QAM	25	0	19.37	19.04	19.39	19.31	19.24			
10	64QAM	25	12	19.33	19.08	19.15	19.02	19.02		20.5	0
10	64QAM	25	24	19.15	19.43	19.19	19.19	19.27			
10	64QAM	50	0	19.09	18.95	19.00	18.97	19.06			
10	256QAM	1	25	18.43	18.56	18.92	18.87	18.59		19.5	1
10	256QAM	1	26	18.57	18.61	18.73	18.43	18.53			
10	256QAM	1	49	18.60	18.50	18.57	18.52	18.47			
10	256QAM	25	0	18.60	18.62	18.81	18.80	18.63		19.5	1
10	256QAM	25	12	18.62	18.80	18.86	18.80	18.78			
10	256QAM	25	24	18.70	18.90	18.88	18.91	18.82			
Channel											
Frequency (MHz)											
5	QPSK	1	0	19.69	19.68	19.62	19.61	19.61		21	0
5	QPSK	1	12	19.69	19.50	19.63	19.53	19.45			
5	QPSK	1	24	19.63	19.63	19.62	19.62	19.45			
5	QPSK	12	0	19.11	19.34	19.47	19.22	19.19		20.5	0
5	QPSK	12	7	19.31	19.19	19.46	19.19	19.05			
5	QPSK	12	14	19.28	19.33	19.33	19.25	19.10			
5	16QAM	1	0	19.12	19.31	19.34	19.12	19.25		20.5	0
5	16QAM	1	7	19.34	19.22	19.47	19.19	19.28			
5	16QAM	1	14	19.17	19.19	19.39	19.17	19.12			
5	16QAM	1	24	19.30	19.30	19.55	19.34	19.27		20.5	0
5	16QAM	12	7	19.33	19.26	19.26	19.26	19.29			
5	16QAM	12	7	19.10	19.23	19.23	19.13	19.29			
5	16QAM	12	14	19.30	19.20	19.45	19.27	19.35		19.5	1
5	64QAM	1	0	19.36	19.30	19.46	19.30	19.37			
5	64QAM	1	0	18.90	18.68	19.02	18.94	19.07			
5	64QAM	1	12	19.79	19.04	19.05	18.77	18.80		19.5	1
5	64QAM	1	12	18.74	18.82	18.83	18.78	18.78			
5	64QAM	12	14	19.00	19.04	19.15	19.05	19.05			
5	64QAM	12	14	19.00	19.04	19.15	19.05	19.05		19.5	1
5	64QAM	25	0	19.78	18.62	18.67	18.91	18.86			
5	256QAM	1	24	18.58	18.57	18.73	18.53	18.62			
5	256QAM	1	24	18.40	18.57	18.78	18.53	18.63		19.5	1
5	256QAM	1	24	18.43	18.55	18.64	18.48	18.51			
5	256QAM	1	24	18.62	18.61	18.62	18.64	18.79			
5	256QAM	12	7	18.77	18.87	18.88	18.76	18.78		19.5	1
5	256QAM	12	14	18.76	18.81	18.91	18.90	18.79			
5	256QAM	12	14	18.76	18.81	18.91	18.90	18.79			



Band 42 FCC Part27Q Main PA Ant1 DS14													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dBm)	MPE (dB)					
Channel													
Frequency (MHz)				42190	42190	42190							
20	QPSK	1	0	19.86	20.02	19.91	21.5	0					
20	QPSK	1	49	19.82	19.83	19.89							
20	QPSK	1	99	19.73	19.76	19.73							
20	QPSK	50	0	19.87	19.87	19.82							
20	QPSK	50	24	19.72	19.75	19.71	21.5	0					
20	QPSK	50	50	19.75	19.81	19.82							
20	QPSK	100	0	19.74	19.84	19.82							
20	16QAM	1	0	19.87	19.79	19.81							
20	16QAM	1	49	19.84	19.71	19.82	21.5	0					
20	16QAM	1	99	19.80	19.89	19.81							
20	16QAM	50	0	19.81	19.89	19.88							
20	16QAM	50	24	19.84	19.86	19.81							
20	16QAM	50	50	19.85	19.83	19.89	21.5	0					
20	16QAM	100	0	19.81	19.86	19.84							
20	64QAM	1	0	19.82	19.89	19.81							
20	64QAM	1	49	19.84	19.89	19.89							
20	64QAM	1	99	19.84	19.82	19.82	21.5	0					
20	64QAM	50	0	19.85	19.87	19.85							
20	64QAM	50	24	19.85	19.88	19.84							
20	64QAM	50	50	19.85	19.87	19.89							
20	64QAM	100	0	19.84	19.85	19.84	21.5	0					
20	256QAM	1	0	18.18	18.27	18.22							
20	256QAM	1	49	18.20	18.33	18.21							
20	256QAM	1	99	18.21	18.26	18.17							
20	256QAM	50	0	18.20	18.26	18.14							
20	256QAM	50	24	18.11	18.21	18.20	20	1.5					
20	256QAM	50	50	18.19	18.24	18.12							
20	256QAM	100	0	18.23	18.27	18.13							
Channel													
Frequency (MHz)				42190	42190	42190							
15	QPSK	1	0	19.15	19.16	19.20	21.5	0					
15	QPSK	1	37	19.77	19.87	19.88							
15	QPSK	1	74	19.72	19.82	19.86							
15	QPSK	36	0	19.71	19.82	19.81							
15	QPSK	36	20	19.70	19.85	19.75	21.5	0					
15	QPSK	36	50	19.79	19.88	19.86							
15	QPSK	75	0	19.62	19.89	19.83							
15	16QAM	1	0	19.84	19.77	19.85							
15	16QAM	1	37	19.73	19.73	19.82	21.5	0					
15	16QAM	1	74	19.82	19.81	19.84							
15	16QAM	36	0	19.87	19.75	19.80							
15	16QAM	36	20	19.80	19.86	19.84							
15	16QAM	36	50	19.81	19.89	19.83	21.5	0					
15	16QAM	75	0	19.87	19.88	19.88							
15	64QAM	1	0	19.80	19.88	19.71							
15	64QAM	1	37	19.84	19.84	19.82							
15	64QAM	36	0	19.85	19.80	19.89	21.5	0					
15	64QAM	36	20	19.80	19.88	19.89							
15	64QAM	36	50	19.81	19.82	19.89							
15	64QAM	75	0	19.76	19.84	19.81							
15	256QAM	1	0	18.13	18.24	18.08	20	1.5					
15	256QAM	1	37	18.16	18.24	18.15							
15	256QAM	1	74	18.18	18.20	18.08							
15	256QAM	36	0	18.09	18.26	18.21							
15	256QAM	36	20	18.01	18.08	18.08	20	1.5					
15	256QAM	36	50	18.07	18.16	18.19							
15	256QAM	75	0	18.16	18.16	18.16							
Channel													
Frequency (MHz)				42190	42190	42190							
10	QPSK	1	0	19.75	19.79	19.80	21.5	0					
10	QPSK	1	25	19.79	19.82	19.78							
10	QPSK	1	49	19.73	19.88	19.85							
10	QPSK	25	0	19.70	19.76	19.83							
10	QPSK	25	12	19.76	19.87	19.73	21.5	0					
10	QPSK	25	25	19.81	19.81	19.88							
10	QPSK	50	0	19.84	19.87	19.86							
10	16QAM	1	0	19.70	19.74	19.89							
10	16QAM	1	25	19.80	19.77	19.80	21.5	0					
10	16QAM	1	49	19.84	19.80	19.80							
10	16QAM	25	0	19.82	19.88	19.71							
10	16QAM	25	12	19.81	19.83	19.79							
10	16QAM	50	0	19.86	19.88	19.85	21.5	0					
10	16QAM	50	12	19.83	19.83	19.79							
10	16QAM	50	25	19.81	19.82	19.84							
10	16QAM	50	0	19.83	19.85	19.86							
10	256QAM	1	0	18.13	18.24	18.08	20	1.5					
10	256QAM	1	25	18.16	18.26	18.15							
10	256QAM	1	49	18.14	18.19	18.06							
10	256QAM	25	0	18.22	18.33	18.17							
10	256QAM	25	12	18.08	18.12	18.05	20	1.5					
10	256QAM	25	25	18.18	18.14	18.01							
10	256QAM	50	0	18.21	18.31	18.18							
Channel													
Frequency (MHz)				42190	42190	42190							
5	QPSK	1	0	19.80	19.88	19.72	21.5	0					
5	QPSK	1	12	19.73	19.81	19.86							
5	QPSK	1	24	19.86	19.83	19.87							
5	QPSK	12	0	19.88	19.80	19.82							
5	QPSK	12	7	19.76	19.72	19.72	21.5	0					
5	QPSK	12	13	19.77	19.78	19.88							
5	QPSK	25	0	19.82	19.86	19.83							
5	16QAM	1	0	19.72	19.81	19.82							
5	16QAM	1	12	19.83	19.80	19.81	21.5	0					
5	16QAM	1	24	19.72	19.76	19.81							
5	16QAM	12	0	19.71	19.80	19.71							
5	16QAM	12	7	19.75	19.87	19.83							
5	16QAM	12	13	19.80	19.82	19.89	21.5	0					
5	16QAM	25	0	19.84	19.86	19.88							
5	16QAM	25	12	19.81	19.88	19.71							
5	16QAM	25	13	19.80	19.82	19.89							
5	64QAM	1	0	19.81	19.81	19.75	21.5	0					
5	64QAM	12	0	19.80	19.71	19.83							
5	64QAM	12	13	19.84	19.73	19.81							
5	64QAM	25	0	19.80	19.84	19.88							
5	256QAM	1	0	18.06	18.23	18.18	20	1.5					
5	256QAM	1	12	18.12	18.29	18.09	20	1.5					
5	256QAM	1	24	18.06	18.16	18.03							
5	256QAM	12	0	18.19	18.21	18.10							
5	256QAM	12	7	18.00	18.13	18.02							
5	256QAM	12	13	18.15	18.17	18.01	20	1.5					
5	256QAM	25	0	18.08	18.14	18.07							
5	256QAM	25	12	18.12	18.12	18.05							
5	256QAM	25	24	18.12	18.12	18.05							

GSM1900 Ant2 Default									
GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		29.89	29.95	29.93	31.00	20.89	20.95	20.93	22.00
GPRS 1 Tx slot		29.92	30.01	29.95	31.00	20.92	21.01	20.95	22.00
GPRS 2 Tx slots		27.08	27.11	27.03	28.00	21.08	21.11	21.03	22.00
GPRS 3 Tx slots		25.21	25.34	25.26	26.20	20.95	21.08	21.00	21.94
GPRS 4 Tx slots		24.02	24.02	23.90	25.00	20.82	21.02	20.90	22.00
EDGE 1 Tx slot		26.15	26.26	26.18	27.00	17.15	17.26	17.18	18.00
EDGE 2 Tx slots		23.36	23.44	23.35	24.00	17.36	17.44	17.35	18.00
EDGE 3 Tx slots		21.53	21.56	21.50	22.20	17.27	17.30	17.24	17.94
EDGE 4 Tx slots		20.54	20.68	20.60	21.00	17.54	17.68	17.60	18.00

		WCDMA II Ant2 DSH4				WCDMA IV Ant2 DSH4			
Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	20.51	20.59	20.52	22.00	20.98	21.04	21.02	22.50
3GPP Rel 99	RMC 12.2Kbps	20.54	20.60	20.51	22.00	20.95	21.11	21.04	22.50
3GPP Rel 6	HS-DSPA Subtest-1	19.47	19.73	19.58	21.00	20.03	20.02	20.05	21.50
3GPP Rel 6	HS-DSPA Subtest-2	19.60	19.49	19.52	21.00	20.06	20.15	20.00	21.50
3GPP Rel 6	HS-DSPA Subtest-3	19.10	19.05	19.01	20.50	19.56	19.64	19.52	21.00
3GPP Rel 6	HS-DSPA Subtest-4	18.94	18.96	19.02	20.50	19.46	19.53	19.59	21.00
3GPP Rel 8	DC-HSDPA Subtest-1	19.61	19.49	19.55	21.00	20.01	20.11	20.04	21.50
3GPP Rel 8	DC-HSDPA Subtest-2	19.49	19.59	19.45	21.00	20.03	20.04	19.94	21.50
3GPP Rel 8	DC-HSDPA Subtest-3	18.86	19.08	18.96	20.50	18.40	19.61	19.41	21.00
3GPP Rel 8	DC-HSDPA Subtest-4	18.88	19.07	18.99	20.50	19.27	19.44	19.43	21.00
3GPP Rel 6	HS-SPA Subtest-1	19.31	19.47	19.48	21.00	19.95	19.99	20.03	21.50
3GPP Rel 6	HS-SPA Subtest-2	17.61	17.67	17.58	19.00	18.02	18.15	18.03	19.50
3GPP Rel 6	HS-SPA Subtest-3	18.58	18.65	18.62	20.00	19.09	19.15	19.15	20.50
3GPP Rel 6	HS-SPA Subtest-4	17.44	17.46	17.47	19.00	17.95	18.11	17.97	19.50
3GPP Rel 6	HS-SPA Subtest-5	19.43	19.62	19.43	21.00	19.93	20.07	19.97	21.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.02	17.08	17.02	18.50	17.66	17.69	17.56	19.00

Band 2 Main PA Ant2 DSI4														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Init. (sec)	APR3 (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	17.66	17.73	17.68	19	0						
20	QPSK	1	49	17.66	17.73	17.68								
20	QPSK	1	99	17.35	17.66	17.51	19	0						
20	QPSK	50	0	17.50	17.62	17.49								
20	QPSK	50	24	17.28	17.53	17.44	19	0						
20	QPSK	50	50	17.39	17.59	17.51								
20	QPSK	100	0	17.27	17.53	17.51	19	0						
20	16QAM	50	0	17.30	17.56	17.52								
20	16QAM	1	49	17.21	17.43	17.41	19	0						
20	16QAM	1	99	17.49	17.59	17.45								
20	16QAM	50	24	17.46	17.43	17.36	19	0						
20	16QAM	50	50	17.19	17.39	17.31								
20	16QAM	100	0	17.32	17.49	17.39	19	0						
20	64QAM	1	0	17.29	17.39	17.37								
20	64QAM	1	49	17.23	17.33	17.28	19	0						
20	64QAM	50	0	17.57	17.59	17.49								
20	64QAM	50	24	17.37	17.53	17.42	19	0						
20	64QAM	50	50	17.38	17.54	17.34								
20	64QAM	100	0	17.23	17.47	17.39	19	0						
20	256QAM	1	49	17.58	17.72	17.58								
20	256QAM	1	99	17.70	17.83	17.70	19	0						
20	256QAM	50	0	17.28	17.58	17.52								
20	256QAM	50	24	17.58	17.68	17.54	19	0						
20	256QAM	50	50	17.50	17.60	17.45								
20	256QAM	100	0	17.40	17.71	17.61	19	0						
Channel														
Frequency (MHz)														
16	QPSK	1	0	17.61	17.66	17.63			19	0				
16	QPSK	1	37	17.37	17.58	17.56								
16	QPSK	1	74	17.48	17.59	17.48	19	0						
16	QPSK	36	0	17.27	17.49	17.48								
16	QPSK	36	25	17.38	17.59	17.48	19	0						
16	QPSK	36	39	17.28	17.48	17.44								
16	QPSK	75	0	17.36	17.45	17.35	19	0						
16	16QAM	1	0	17.16	17.43	17.40								
16	16QAM	1	37	17.44	17.56	17.38	19	0						
16	16QAM	1	74	17.39	17.47	17.43								
16	16QAM	36	0	17.38	17.48	17.30	19	0						
16	16QAM	36	20	17.17	17.41	17.37								
16	16QAM	36	25	17.28	17.38	17.38	19	0						
16	16QAM	75	0	17.28	17.38	17.42								
16	64QAM	1	0	17.27	17.30	17.18	19	0						
16	64QAM	1	37	17.02	17.30	17.28								
16	64QAM	1	74	17.48	17.59	17.45	19	0						
16	64QAM	36	0	17.30	17.49	17.42								
16	64QAM	36	20	17.34	17.38	17.34	19	0						
16	64QAM	36	25	17.38	17.45	17.35								
16	64QAM	75	0	17.65	17.66	17.52	19	0						
16	256QAM	1	0	17.65	17.66	17.52								
16	256QAM	1	37	17.48	17.55	17.47	19	0						
16	256QAM	1	74	17.48	17.70	17.58								
16	256QAM	36	0	17.58	17.65	17.58	19	0						
16	256QAM	36	20	17.52	17.64	17.40								
16	256QAM	36	25	17.41	17.54	17.38	19	0						
16	256QAM	75	0	17.52	17.63	17.57								
Channel														
Frequency (MHz)														
10	QPSK	1	0	17.61	17.63	17.52	19	0						
10	QPSK	1	25	17.42	17.48	17.46								
10	QPSK	1	49	17.25	17.45	17.49	19	0						
10	QPSK	25	0	17.47	17.47	17.44								
10	QPSK	25	12	17.28	17.54	17.48	19	0						
10	QPSK	25	25	17.36	17.37	17.25								
10	QPSK	50	0	17.52	17.52	17.53	19	0						
10	16QAM	1	0	17.45	17.54	17.44								
10	16QAM	1	25	17.31	17.41	17.49	19	0						
10	16QAM	1	49	17.36	17.49	17.51								
10	16QAM	25	0	17.19	17.44	17.39	19	0						
10	16QAM	25	12	17.29	17.56	17.37								
10	16QAM	36	0	17.28	17.35	17.36	19	0						
10	16QAM	50	0	17.24	17.31	17.25								
10	64QAM	1	49	17.29	17.52	17.47	19	0						
10	64QAM	25	0	17.36	17.38	17.34								
10	64QAM	25	12	17.22	17.50	17.47	19	0						
10	64QAM	25	25	17.48	17.50	17.47								
10	64QAM	50	0	17.48	17.50	17.47	19	0						
10	256QAM	1	0	17.68	17.63	17.63								
10	256QAM	1	25	17.50	17.64	17.53	19	0						
10	256QAM	1	49	17.58	17.51	17.59								
10	256QAM	25	0	17.50	17.60	17.49	19	0						
10	256QAM	25	12	17.40	17.56	17.41								
10	256QAM	25	25	17.46	17.56	17.41	19	0						
Channel														
Frequency (MHz)														
5	QPSK	1	0	17.60	17.67	17.63			19	0				
5	QPSK	1	12	17.37	17.54	17.56								
5	QPSK	1	24	17.50	17.51	17.41	19	0						
5	QPSK	12	7	17.41	17.50	17.54								
5	QPSK	12	13	17.29	17.54	17.48	19	0						
5	QPSK	20	0	17.29	17.44	17.47								
5	16QAM	1	0	17.20	17.48	17.37	19	0						
5	16QAM	1	12	17.48	17.59	17.37								
5	16QAM	1	24	17.28	17.48	17.40	19	0						
5	16QAM	12	0	17.40	17.49	17.36								
5	16QAM	12	7	17.20	17.34	17.34	19	0						
5	16QAM	12	13	17.26	17.53	17.29								
5	16QAM	25	0	17.23	17.32	17.39	19	0						
5	64QAM	1	0	17.33	17.35	17.22								
5	64QAM	1	12	17.23	17.29	17.27	19	0						
5	64QAM	1	24	17.54	17.53	17.42								
5	64QAM	12	0	17.35	17.45	17.43	19	0						
5	64QAM	12	7	17.33	17.34	17.41								
5	64QAM	12	13	17.22	17.43	17.45	19	0						
5	64QAM	25	0	17.52	17.52	17.44								
5	256QAM	1	0	17.71	17.71	17.63	19	0						
5	256QAM	1	12	17.50	17.69	17.49								
5	256QAM	1	24	17.51	17.69	17.51	19	0						
5	256QAM	12	0	17.64	17.70	17.64								
5	256QAM	12	7	17.46	17.63	17.60	19	0						
5	256QAM	12	13	17.38	17.64	17.52								
5	256QAM	25	0	17.46	17.66	17.51	19	0						
Channel														
Frequency (MHz)														
3	QPSK	1	0	18.05	18.00	18.09			19	0				
3	QPSK	1	8	17.67	17.67	17.53								
3	QPSK	1	8	17.62	17.60	17.53	19	0						
3	QPSK	8	0	17.35	17.64	17.48								
3	QPSK	8	4	17.43	17.54	17.48	19	0						
3	QPSK	8	8	17.33	17.48	17.46								
3	QPSK	15	0	17.31	17.41	17.26	19	0						
3	16QAM	1	0	17.14	17.43	17.38								
3	16QAM	1	14	17.31	17.39	17.45	19	0						
3	16QAM	8	0	17.40	17.45	17.30								
3	16QAM	8	4	17.15	17.45	17.30	19	0						
3	16QAM	8	7	17.47	17.47	17.29								
3	16QAM	15	0	17.30	17.41	17.44	19	0						
3	16QAM	15	0	17.38	17.27	17.15								
3	64QAM	1	8	17.28	17.29	17.28	19	0						
3	64QAM	1	8	17.47	17.42	17.41								
3	64QAM	8	0	17.29	17.48	17.44	19	0						
3	64QAM	8	4	17.40	17.37	17.42								
3	256QAM	1	0	17.31	17.63	17.52	19	0						
3	256QAM	1	8	17.44	17.44	17.41								
3	256QAM	15	0	17.45	17.51	17.48	19	0						
3	256QAM	15	14	17.62	17.72	17.66								
3	256QAM	8	0	17.39	17.68	17.68	19	0						
3	256QAM	8	4	17.45	17.58	17.48								
3	256QAM	8	7	17.41	17.55	17.39	19	0						
3	256QAM	15	0	17.52	17.64	17.57								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	17.55	17.65	17.63	19	0						
1.4	QPSK	1	0	17.56	17.65	17.63								
1.4	QPSK	1	5	17.47	17.53	17.48	19	0						
1.4	QPSK	3	0	17.35	17.50	17.42								
1.4	QPSK	3	3	17.26	17.53	17.48	19	0						
1.4	QPSK	3	3	17.28	17.54	17.49								
1.4	QPSK	3	3	17.28	17.54	17.49	19	0						
1.4	QPSK	3	3	17.27	17.54	17.49								
1.4	QPSK	3	3	17.27	17.54	17.49	19	0						
1.4	QPSK	3	3	17.23	17.54	17.49								
1.4	16QAM	1	0	17.23	17.34	17.18	19	0						
1.4	16QAM	1	0	17.23	17.34	17.18								
1.4	16QAM	1	0	17.24	17.54	17.30	19	0						
1.4	16QAM	3	0	17.31	17.48	17.31								
1.4	16QAM	3	0	17.31	17.48	17.31	19	0						
1.4	16QAM	3	0	17.40	17.49	17.42								
1.4	16QAM	3	0	17.40	17.49	17.42	19	0						
1.4	16QAM	3	0	17.47	17.67	17.54								
1.4	16QAM	3	5	17.60	17.67	17.62	19	0						
1.4	16QAM	3	5	17.61	17.66	17.61								
1.4	256QAM	1	0	17.53	17.55	17.44	19	0						
1.4	256QAM													

Band 25 Main PA Ant2 DSI4														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 18640	Power Middle Ch / Freq. 18650	Power High Ch / Freq. 18658	Time-up (ms)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	20.51	20.70	20.58	22	0	21.5	0				
20	QPSK	1	49	20.48	20.58	20.55								
20	QPSK	1	99	20.34	20.54	20.40								
20	QPSK	50	0	20.48	20.71	20.63								
20	QPSK	50	24	20.54	20.48	20.58	22	0	21.5	0				
20	QPSK	50	50	20.41	20.59	20.47								
20	QPSK	100	0	20.59	20.65	20.61								
20	16QAM	1	0	20.48	20.62	20.53								
20	16QAM	1	49	20.43	20.51	20.46	22	0	21.5	0				
20	16QAM	1	99	20.55	20.62	20.63								
20	16QAM	50	0	20.52	20.59	20.59								
20	16QAM	50	24	20.42	20.49	20.43								
20	16QAM	50	50	20.52	20.71	20.58	22	0	21.5	0				
20	16QAM	100	0	20.54	20.69	20.61								
20	64QAM	1	0	20.35	20.54	20.50								
20	64QAM	1	49	20.50	20.68	20.56								
20	64QAM	1	99	20.47	20.66	20.55	22	0	21.5	0				
20	64QAM	50	0	20.41	20.48	20.51								
20	64QAM	50	24	20.47	20.61	20.57								
20	64QAM	50	50	20.50	20.66	20.56								
20	256QAM	1	0	18.73	18.85	18.72	20	2	19.5	2				
20	256QAM	1	49	18.66	18.72	18.59								
20	256QAM	1	99	18.71	18.75	18.66								
20	256QAM	50	0	18.64	18.69	18.59								
20	256QAM	50	24	18.56	18.69	18.67	20	2	19.5	2				
20	256QAM	50	50	18.60	18.68	18.61								
20	256QAM	100	0	18.63	18.69	18.61								
Channel														
1867.5 1860 1867.5														
18	QPSK	1	0	20.54	20.65	20.61					22	0	21.5	0
18	QPSK	1	37	20.48	20.48	20.61								
18	QPSK	1	74	20.29	20.57	20.40								
18	QPSK	36	0	20.48	20.71	20.59								
18	QPSK	36	20	20.55	20.49	20.61	22	0	21.5	0				
18	QPSK	36	39	20.45	20.52	20.59								
18	QPSK	75	0	20.63	20.64	20.63								
18	16QAM	1	0	20.50	20.66	20.50								
18	16QAM	1	37	20.49	20.49	20.47	22	0	21.5	0				
18	16QAM	1	74	20.59	20.62	20.62								
18	16QAM	36	0	20.49	20.64	20.56								
18	16QAM	36	20	20.48	20.48	20.48								
18	16QAM	36	39	20.49	20.70	20.58	22	0	21.5	0				
18	16QAM	75	0	20.49	20.70	20.58								
18	64QAM	1	0	20.30	20.59	20.46								
18	64QAM	1	37	20.45	20.62	20.53								
18	64QAM	1	74	20.45	20.57	20.53	22	0	21.5	0				
18	64QAM	36	0	20.38	20.50	20.45								
18	64QAM	36	20	20.63	20.66	20.63								
18	64QAM	36	39	20.47	20.72	20.54								
18	64QAM	75	0	20.52	20.63	20.58	20	2	19.5	2				
18	256QAM	1	0	18.64	18.71	18.62								
18	256QAM	1	37	18.54	18.56	18.45								
18	256QAM	1	74	18.63	18.75	18.52								
18	256QAM	36	0	18.63	18.65	18.58	20	2	19.5	2				
18	256QAM	36	20	18.51	18.50	18.47								
18	256QAM	36	39	18.48	18.53	18.53								
18	256QAM	75	0	18.56	18.55	18.42								
Channel														
1869.5 1860 1869.5														
18	QPSK	1	0	20.52	20.69	20.68	22	0	21.5	0				
18	QPSK	1	25	20.48	20.59	20.55								
18	QPSK	1	49	20.31	20.59	20.42								
18	QPSK	1	74	20.48	20.69	20.68								
18	QPSK	25	12	20.57	20.67	20.61	22	0	21.5	0				
18	QPSK	25	19	20.39	20.51	20.51								
18	QPSK	50	0	20.59	20.67	20.67								
18	16QAM	1	0	20.48	20.64	20.57								
18	16QAM	1	25	20.39	20.47	20.52	22	0	21.5	0				
18	16QAM	1	49	20.50	20.63	20.68								
18	16QAM	25	0	20.48	20.69	20.59								
18	16QAM	25	12	20.47	20.47	20.44								
18	16QAM	25	19	20.50	20.70	20.54	22	0	21.5	0				
18	16QAM	50	0	20.57	20.68	20.57								
18	64QAM	1	0	20.36	20.49	20.51								
18	64QAM	1	25	20.51	20.65	20.60								
18	64QAM	1	49	20.51	20.64	20.54	22	0	21.5	0				
18	64QAM	25	0	20.42	20.49	20.59								
18	64QAM	25	12	20.42	20.69	20.63								
18	64QAM	25	19	20.54	20.71	20.51								
18	64QAM	50	0	20.52	20.69	20.57	20	2	19.5	2				
18	256QAM	1	0	18.65	18.72	18.58								
18	256QAM	1	25	18.63	18.64	18.51								
18	256QAM	1	49	18.67	18.62	18.51								
18	256QAM	25	0	18.51	18.50	18.57	20	2	19.5	2				
18	256QAM	25	12	18.45	18.52	18.36								
18	256QAM	25	19	18.50	18.50	18.57								
18	256QAM	50	0	18.49	18.60	18.48								
Channel														
1869.5 1860 1869.5														
5	QPSK	1	0	20.58	20.72	20.51	22	0	21.5	0				
5	QPSK	1	12	20.50	20.52	20.51								
5	QPSK	1	24	20.38	20.51	20.41								
5	QPSK	12	0	20.52	20.68	20.68								
5	QPSK	12	7	20.51	20.60	20.60	22	0	21.5	0				
5	QPSK	12	13	20.39	20.51	20.50								
5	QPSK	25	0	20.63	20.70	20.60								
5	16QAM	1	0	20.44	20.69	20.55								
5	16QAM	1	12	20.38	20.50	20.49	22	0	21.5	0				
5	16QAM	1	24	20.58	20.59	20.67								
5	16QAM	12	0	20.50	20.71	20.58								
5	16QAM	12	7	20.43	20.51	20.44								
5	16QAM	12	13	20.52	20.72	20.58	22	0	21.5	0				
5	16QAM	25	0	20.57	20.67	20.56								
5	64QAM	1	0	20.33	20.56	20.53								
5	64QAM	1	12	20.48	20.69	20.53								
5	64QAM	1	24	20.53	20.64	20.56	22	0	21.5	0				
5	64QAM	12	0	20.42	20.42	20.54								
5	64QAM	12	7	20.42	20.69	20.63								
5	64QAM	12	13	20.50	20.62	20.56								
5	64QAM	25	0	20.51	20.49	20.46	20	2	19.5	2				
5	256QAM	1	0	18.60	18.71	18.50								
5	256QAM	1	12	18.58	18.60	18.48								

Band 38 Main PA Ant2 DSI4												
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)				31860	36000	38160						
20	QPSK	1	0	23.22	23.37	23.18	23.5	0				
20	QPSK	1	48	23.02	23.15	23.09						
20	QPSK	1	96	23.13	23.16	23.08						
20	QPSK	50	0	23.17	23.28	23.22	23.5	0				
20	QPSK	50	24	23.10	23.15	23.15						
20	QPSK	50	48	23.08	23.15	23.04						
20	QPSK	100	0	23.15	23.22	23.21	23.5	0				
20	16QAM	1	0	23.08	23.20	23.18						
20	16QAM	1	48	23.10	23.13	23.08						
20	16QAM	1	96	23.17	23.26	23.26	23.5	0				
20	16QAM	50	0	23.11	23.22	23.15						
20	16QAM	50	24	23.08	23.14	23.06						
20	16QAM	50	50	23.21	23.22	23.19	23.5	0				
20	16QAM	100	0	23.13	23.15	23.05						
20	16QAM	100	0	23.05	23.16	23.09						
20	64QAM	1	48	23.05	23.22	23.16	23.5	0				
20	64QAM	1	96	23.04	23.20	23.13						
20	64QAM	50	0	22.22	22.27	22.21						
20	64QAM	50	24	22.08	22.22	22.08	22.5	1				
20	64QAM	50	50	22.20	22.27	22.19						
20	64QAM	100	0	22.16	22.32	22.19						
20	256QAM	1	0	20.26	20.30	20.24	20.5	3				
20	256QAM	1	48	20.19	20.23	20.13						
20	256QAM	1	96	20.18	20.24	20.12						
20	256QAM	50	0	20.20	20.25	20.16	20.5	3				
20	256QAM	50	24	20.03	20.16	20.11						
20	256QAM	50	50	20.08	20.20	20.11						
Channel												
Frequency (MHz)				31860	36000	38170	Tune-up limit (dBm)	MPR (dB)				
15	QPSK	1	0	23.23	23.34	23.23	23.5	0				
15	QPSK	1	37	23.04	23.14	23.14						
15	QPSK	1	74	23.12	23.11	23.07						
15	QPSK	36	0	23.15	23.25	23.19	23.5	0				
15	QPSK	36	20	23.08	23.15	23.18						
15	QPSK	36	37	23.17	23.22	23.16						
15	QPSK	75	0	23.18	23.27	23.19	23.5	0				
15	16QAM	1	0	23.13	23.16	23.09						
15	16QAM	1	37	23.07	23.19	23.06						
15	16QAM	1	74	23.14	23.23	23.29	23.5	0				
15	16QAM	36	0	23.18	23.24	23.11						
15	16QAM	36	20	23.04	23.15	23.06						
15	16QAM	36	36	23.07	23.28	23.20	23.5	0				
15	16QAM	75	0	23.15	23.13	23.02						
15	64QAM	1	0	23.12	23.14	23.14						
15	64QAM	1	37	23.10	23.23	23.08	23.5	0				
15	64QAM	1	74	23.07	23.18	23.16						
15	64QAM	36	0	23.11	23.17	23.13						
15	64QAM	36	20	21.94	22.14	22.06	22.5	1				
15	64QAM	36	36	22.05	22.12	22.03						
15	64QAM	75	0	21.95	22.11	22.05						
15	256QAM	1	0	20.01	20.22	20.12	20.5	3				
15	256QAM	1	37	20.07	20.12	20.00						
15	256QAM	1	74	20.07	20.15	20.09						
15	256QAM	36	0	20.04	20.19	20.11	20.5	3				
15	256QAM	36	20	19.92	20.08	20.05						
15	256QAM	36	36	19.98	20.12	20.03						
15	256QAM	75	0	20.03	20.07	19.98						
Channel												
Frequency (MHz)				31860	36000	38200				Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	23.23	23.37	23.18	23.5	0				
10	QPSK	1	25	23.08	23.19	23.13						
10	QPSK	1	48	23.15	23.21	23.08						
10	QPSK	25	0	23.22	23.30	23.17	23.5	0				
10	QPSK	25	12	23.05	23.13	23.14						
10	QPSK	25	25	23.04	23.16	23.00						
10	16QAM	1	0	23.16	23.24	23.18	23.5	0				
10	16QAM	1	0	23.10	23.25	23.15						
10	16QAM	1	25	23.08	23.16	23.08						
10	16QAM	1	48	23.18	23.26	23.31	23.5	0				
10	16QAM	25	0	23.08	23.27	23.19						
10	16QAM	25	12	23.05	23.18	23.06						
10	16QAM	50	0	23.11	23.13	23.02	23.5	0				
10	16QAM	25	12	23.05	23.18	23.06						
10	16QAM	25	25	23.02	23.20	23.23						
10	64QAM	1	0	23.00	23.20	23.12	23.5	0				
10	64QAM	1	48	22.99	23.18	23.07						
10	64QAM	25	0	22.12	22.18	22.12						
10	64QAM	25	12	22.02	22.13	21.96	22.5	1				
10	64QAM	25	25	22.11	22.17	22.05						
10	64QAM	50	0	22.04	22.14	22.07						
10	256QAM	1	0	20.20	20.18	20.11	20.5	3				
10	256QAM	1	25	20.11	20.13	20.01						
10	256QAM	1	48	20.14	20.15	20.03						
10	256QAM	25	0	20.04	20.17	20.10	20.5	3				
10	256QAM	25	12	19.91	20.04	19.97						
10	256QAM	25	25	20.03	20.06	20.00						
10	256QAM	50	0	19.98	20.09	19.91						
Channel												
Frequency (MHz)				31775	36000	38250				Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	23.18	23.26	23.12	23.5	0				
5	QPSK	1	12	23.04	23.12	23.12						
5	QPSK	1	24	23.09	23.10	23.05						
5	QPSK	12	0	23.22	23.24	23.18	23.5	0				
5	QPSK	12	7	23.13	23.21	23.13						
5	QPSK	12	16	23.00	23.12	23.01						
5	QPSK	25	0	23.16	23.21	23.26	23.5	0				
5	16QAM	1	0	23.07	23.14	23.12						
5	16QAM	1	12	23.05	23.18	23.13						
5	16QAM	1	24	23.19	23.28	23.26	23.5	0				
5	16QAM	12	0	23.06	23.22	23.16						
5	16QAM	12	7	23.08	23.14	23.07						
5	16QAM	12	13	23.15	23.16	23.14	23.5	0				
5	16QAM	25	0	23.13	23.12	23.06						
5	64QAM	1	0	23.12	23.18	23.07	23.5	0				
5	64QAM	1	12	22.96	23.22	23.11						
5	64QAM	1	24	23.09	23.22	23.09						
5	64QAM	12	0	22.10	22.21	22.14	22.5	1				
5	64QAM	12	7	22.05	22.15	22.00						
5	64QAM	12	13	22.18	22.18	22.06						
5	64QAM	25	0	22.06	22.16	22.06	20.5	3				
5	256QAM	1	0	20.17	20.15	20.15						
5	256QAM	1	12	20.16	20.16	20.02						
5	256QAM	1	24	20.10	20.11	20.01	20.5	3				
5	256QAM	12	0	20.00	20.11	20.09						
5	256QAM	12	7	19.92	20.03	19.97						
5	256QAM	12	13	20.01	20.16	20.07						
5	256QAM	25	0	19.98	20.05	19.95						

Band 41 Main PA Ant2 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Low Power / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.23	23.25	23.40	23.27	23.22	23.5
20	QPSK	1	48	23.03	23.17	23.20	23.20	23.08	
20	QPSK	1	96	23.18	23.18	23.33	23.22	23.22	23.5
20	QPSK	50	24	23.16	23.30	23.34	23.24	23.16	
20	QPSK	50	24	23.00	23.21	23.21	23.24	23.18	23.5
20	QPSK	100	0	23.16	23.26	23.32	23.22	23.16	
20	QPSK	100	0	23.19	23.26	23.40	23.37	23.22	23.5
20	16QAM	1	0	22.98	23.20	23.46	23.36	23.12	
20	16QAM	1	48	23.14	23.48	23.48	23.38	23.12	23.5
20	16QAM	1	96	23.17	23.32	23.39	23.36	23.26	
20	16QAM	50	0	23.09	23.25	23.27	23.26	23.13	23.5
20	16QAM	50	24	23.12	23.19	23.24	23.24	23.19	
20	16QAM	50	24	23.18	23.26	23.36	23.26	23.19	23.5
20	16QAM	100	0	23.04	23.21	23.22	23.20	23.17	
20	16QAM	100	0	23.14	23.21	23.32	23.22	23.17	23.5
20	64QAM	1	48	23.07	23.23	23.26	23.26	23.09	
20	64QAM	1	96	23.17	23.16	23.31	23.22	23.16	23.5
20	64QAM	50	0	23.20	23.24	23.29	23.26	23.28	
20	64QAM	50	24	23.09	23.25	23.28	23.20	23.15	22.5
20	64QAM	100	0	23.22	23.28	23.27	23.26	23.22	
20	64QAM	100	0	23.21	23.23	23.27	23.26	23.22	22.5
20	256QAM	1	0	23.27	23.33	23.36	23.41	23.26	
20	256QAM	1	48	23.04	23.33	23.33	23.26	23.20	20.5
20	256QAM	1	96	23.21	23.35	23.35	23.22	23.24	
20	256QAM	50	0	23.20	23.27	23.27	23.26	23.24	20.5
20	256QAM	50	24	23.14	23.14	23.30	23.20	23.21	
20	256QAM	50	24	23.13	23.21	23.29	23.19	23.21	20.5
20	256QAM	100	0	23.20	23.25	23.25	23.24	23.18	
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.23	23.43	23.43	23.37	23.21	24
15	QPSK	1	37	23.09	23.14	23.20	23.30	23.07	
15	QPSK	1	74	23.16	23.13	23.34	23.21	23.17	23.5
15	QPSK	1	111	23.18	23.26	23.34	23.24	23.20	
15	QPSK	25	0	23.06	23.21	23.20	23.28	23.14	23.5
15	QPSK	25	37	23.06	23.25	23.31	23.28	23.14	
15	QPSK	75	0	23.21	23.21	23.44	23.40	23.23	23.5
15	16QAM	1	0	23.01	23.21	23.32	23.34	23.07	
15	16QAM	1	37	23.13	23.27	23.32	23.31	23.07	23.5
15	16QAM	1	74	23.22	23.28	23.38	23.33	23.24	
15	16QAM	25	0	23.06	23.20	23.27	23.24	23.16	22.5
15	16QAM	25	37	23.12	23.14	23.23	23.20	23.18	
15	16QAM	75	0	23.14	23.29	23.34	23.30	23.16	23.5
15	64QAM	1	37	23.10	23.26	23.31	23.29	23.15	
15	64QAM	1	74	23.11	23.26	23.38	23.33	23.21	23.5
15	64QAM	1	111	23.07	23.27	23.35	23.31	23.15	
15	64QAM	25	0	23.02	23.20	23.22	23.21	23.05	22.5
15	64QAM	25	37	23.04	23.11	23.22	23.27	23.04	
15	64QAM	75	0	23.15	23.28	23.32	23.27	23.15	20.5
15	256QAM	1	37	23.10	23.28	23.31	23.29	23.15	
15	256QAM	1	74	23.12	23.23	23.26	23.30	23.15	20.5
15	256QAM	1	111	23.08	23.26	23.33	23.31	23.05	
15	256QAM	25	0	23.09	23.03	23.25	23.05	23.16	20.5
15	256QAM	25	37	23.10	23.06	23.22	23.06	23.10	
15	256QAM	75	0	23.07	23.17	23.22	23.20	23.08	20.5
15	256QAM	100	0	23.07	23.17	23.22	23.20	23.08	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.03	23.16	23.16	23.03	23.00	24
10	QPSK	1	25	23.02	23.21	23.25	23.30	23.05	
10	QPSK	1	50	23.24	23.27	23.31	23.34	23.05	23.5
10	QPSK	25	0	23.00	23.15	23.15	23.27	23.15	
10	QPSK	25	12	23.05	23.18	23.24	23.36	23.21	23.5
10	QPSK	25	25	23.05	23.28	23.32	23.34	23.13	
10	QPSK	50	0	23.10	23.22	23.26	23.37	23.27	23.5
10	16QAM	1	0	23.02	23.16	23.28	23.31	23.17	
10	16QAM	1	25	23.12	23.19	23.29	23.33	23.18	23.5
10	16QAM	1	49	23.13	23.37	23.44	23.42	23.24	
10	16QAM	25	0	23.13	23.31	23.32	23.38	23.15	23.5
10	16QAM	25	12	23.12	23.32	23.36	23.39	23.16	
10	16QAM	25	25	23.15	23.20	23.24	23.21	23.10	23.5
10	64QAM	1	0	23.08	23.25	23.34	23.37	23.15	
10	64QAM	1	0	23.10	23.21	23.27	23.28	23.22	23.5
10	64QAM	1	25	23.11	23.23	23.23	23.21	23.03	
10	64QAM	25	0	23.13	23.29	23.32	23.31	23.22	22.5
10	64QAM	25	12	23.13	23.25	23.32	23.26	23.17	
10	64QAM	25	25	23.03	23.17	23.23	23.31	23.02	20.5
10	64QAM	50	0	23.07	23.10	23.27	23.25	23.13	
10	64QAM	50	0	23.20	23.26	23.30	23.29	23.11	20.5
10	256QAM	1	25	23.16	23.26	23.27	23.31	23.18	
10	256QAM	1	49	23.16	23.27	23.29	23.34	23.09	20.5
10	256QAM	1	24	23.04	23.15	23.24	23.33	23.05	
10	256QAM	25	12	23.05	23.05	23.26	23.14	23.02	20.5
10	256QAM	25	25	23.08	23.12	23.15	23.06	23.10	
10	256QAM	50	0	23.07	23.12	23.15	23.08	23.11	20.5
10	256QAM	100	0	23.07	23.12	23.15	23.08	23.11	
Channel									
Frequency (MHz)									
5	QPSK	1	12	23.07	23.13	23.16	23.30	23.05	24
5	QPSK	12	0	23.17	23.24	23.39	23.32	23.23	
5	QPSK	12	7	23.03	23.22	23.35	23.22	23.16	23.5
5	QPSK	25	0	23.12	23.32	23.32	23.32	23.12	
5	QPSK	25	0	23.22	23.31	23.43	23.33	23.28	23.5
5	16QAM	1	0	22.97	23.15	23.30	23.34	23.12	
5	16QAM	1	12	23.18	23.28	23.32	23.34	23.15	23.5
5	16QAM	1	24	23.17	23.29	23.38	23.36	23.20	
5	16QAM	12	7	23.07	23.23	23.31	23.30	23.11	23.5
5	16QAM	12	7	23.15	23.21	23.32	23.35	23.22	
5	16QAM	12	13	23.19	23.24	23.41	23.27	23.23	23.5
5	64QAM	1	0	23.03	23.17	23.31	23.33	23.17	
5	64QAM	1	12	23.16	23.24	23.23	23.31	23.14	23.5
5	64QAM	12	24	23.12	23.22	23.22	23.24	23.22	
5	64QAM	25	0	23.08	23.20	23.25	23.26	23.12	22.5
5	64QAM	25	7	23.04	23.20	23.25	23.15	23.02	
5	64QAM	25	13	23.12	23.22	23.22	23.24	23.22	20.5
5	64QAM	25	0	23.16	23.16	23.28	23.23	23.16	
5	256QAM	1	12	23.17	23.21	23.23	23.30	23.08	20.5
5	256QAM	1	12	23.16	23.26	23.29	23.13	23.10	
5	256QAM	1	24	23.08	23.21	23.22	23.31	23.09	20.5
5	256QAM	1	24	23.08	23.15	23.20	23.11	23.11	
5	256QAM	12	7	23.02	23.03	23.20	23.03	23.10	20.5
5	256QAM	12	13	23.06	23.06	23.10	23.10	23.09	
5	256QAM	25	0	23.13	23.13	23.26	23.06	23.11	20.5
5	256QAM	25	0	23.13	23.13	23.26	23.06	23.11	

Band 4 Main PA Ant3 DSI4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.61	17.63	17.76	19.5	0		
20	QPSK	1	49	17.67	17.68	17.76				
20	QPSK	1	99	17.69	17.73	17.76				
20	QPSK	50	0	17.67	17.74	17.62	19.5	0		
20	QPSK	50	24	17.71	17.63	17.65				
20	QPSK	50	50	17.59	17.54	17.59				
20	QPSK	100	0	17.66	17.69	17.61	19.5	0		
20	16QAM	100	0	17.62	17.61	17.61				
20	16QAM	1	49	17.59	17.61	17.63				
20	16QAM	1	99	17.63	17.63	17.64	19.5	0		
20	16QAM	50	0	17.66	17.61	17.59				
20	16QAM	50	24	17.74	17.76	17.73				
20	16QAM	50	50	17.57	17.61	17.61	19.5	0		
20	16QAM	100	0	17.79	17.76	17.57				
20	64QAM	1	0	17.63	17.64	17.70				
20	64QAM	1	49	17.60	17.73	17.66	19.5	0		
20	64QAM	50	0	17.65	17.74	17.63				
20	64QAM	50	0	17.56	17.67	17.67				
20	64QAM	50	24	17.53	17.58	17.52	19.5	0		
20	64QAM	50	50	17.58	17.63	17.56				
20	64QAM	100	0	17.52	17.52	17.59				
20	256QAM	1	49	17.55	17.56	17.54	19.5	0		
20	256QAM	1	99	17.55	17.51	17.52				
20	256QAM	50	0	17.65	17.63	17.62				
20	256QAM	50	24	17.64	17.68	17.59	19.5	0		
20	256QAM	50	50	17.60	17.72	17.57				
20	256QAM	100	0	17.61	17.61	17.61				
Channel				26005	26015	26055	Turn-up time (sec)	MFR (dB)		
Frequency (MHz)				1717.5	1732.5	1747.5	19.5	0		
15	QPSK	1	0	17.72	17.65	17.57				
15	QPSK	1	37	17.68	17.66	17.62				
15	QPSK	1	74	17.75	17.63	17.66	19.5	0		
15	QPSK	36	0	17.64	17.72	17.67				
15	QPSK	36	37	17.78	17.65	17.71				
15	QPSK	36	39	17.68	17.69	17.69	19.5	0		
15	QPSK	75	0	17.66	17.67	17.62				
15	16QAM	1	17.60	17.66	17.72	17.62				
15	16QAM	1	37	17.68	17.57	17.62	19.5	0		
15	16QAM	1	74	17.79	17.66	17.66				
15	16QAM	36	0	17.68	17.51	17.60				
15	16QAM	36	20	17.67	17.68	17.74	19.5	0		
15	16QAM	36	20	17.66	17.67	17.67				
15	16QAM	75	0	17.74	17.62	17.62				
15	64QAM	1	0	17.67	17.52	17.57	19.5	0		
15	64QAM	1	37	17.75	17.63	17.63				
15	64QAM	1	74	17.77	17.67	17.60				
15	64QAM	36	0	17.59	17.63	17.66	19.5	0		
15	64QAM	36	20	17.63	17.64	17.64				
15	64QAM	36	39	17.67	17.63	17.57				
15	64QAM	75	0	17.65	17.70	17.62	19.5	0		
15	256QAM	1	37	17.60	17.50	17.51				
15	256QAM	1	74	17.64	17.53	17.52				
15	256QAM	36	0	17.63	17.63	17.63	19.5	0		
15	256QAM	36	20	17.62	17.72	17.65				
15	256QAM	36	39	17.74	17.76	17.69				
15	256QAM	75	0	17.61	17.60	17.67	19.5	0		
Channel				26060	26070	26090			Turn-up time (sec)	MFR (dB)
Frequency (MHz)				1715	1732.5	1750	19.5	0		
10	QPSK	1	0	17.63	17.59	17.53				
10	QPSK	1	25	17.66	17.69	17.53				
10	QPSK	1	49	17.69	17.59	17.69	19.5	0		
10	QPSK	25	0	17.61	17.72	17.61				
10	QPSK	25	12	17.71	17.62	17.66				
10	QPSK	25	25	17.68	17.59	17.69	19.5	0		
10	QPSK	50	0	17.66	17.66	17.66				
10	16QAM	1	0	17.58	17.51	17.54				
10	16QAM	1	25	17.63	17.62	17.66	19.5	0		
10	16QAM	25	0	17.65	17.67	17.52				
10	16QAM	25	12	17.64	17.62	17.61				
10	16QAM	50	0	17.68	17.68	17.67	19.5	0		
10	16QAM	50	0	17.61	17.60	17.53				
10	64QAM	1	49	17.66	17.54	17.54				
10	64QAM	25	0	17.64	17.65	17.60	19.5	0		
10	64QAM	25	12	17.61	17.62	17.59				
10	64QAM	25	25	17.52	17.65	17.62				
10	64QAM	50	0	17.53	17.51	17.55	19.5	0		
10	256QAM	1	49	17.52	17.53	17.55				
10	256QAM	1	25	17.62	17.54	17.62				
10	256QAM	1	49	17.66	17.55	17.64	19.5	0		
10	256QAM	25	0	17.71	17.62	17.62				
10	256QAM	25	12	17.57	17.70	17.74				
10	256QAM	25	25	17.66	17.74	17.72	19.5	0		
10	256QAM	50	0	17.56	17.64	17.68				
Channel				16975	16975	16975	Turn-up time (sec)	MFR (dB)		
Frequency (MHz)				1712.5	1732.5	1752.5	19.5	0		
5	QPSK	1	0	17.63	17.59	17.53				
5	QPSK	1	12	17.64	17.77	17.61				
5	QPSK	1	24	17.63	17.59	17.65	19.5	0		
5	QPSK	12	0	17.65	17.75	17.65				
5	QPSK	12	7	17.71	17.54	17.59				
5	QPSK	12	13	17.71	17.52	17.67	19.5	0		
5	QPSK	20	0	17.72	17.61	17.67				
5	QPSK	20	0	17.72	17.67	17.57				
5	16QAM	1	0	17.67	17.59	17.69	19.5	0		
5	16QAM	1	12	17.63	17.59	17.64				
5	16QAM	1	24	17.63	17.69	17.69				
5	16QAM	12	0	17.79	17.71	17.69	19.5	0		
5	16QAM	12	7	17.76	17.70	17.68				
5	16QAM	12	13	17.68	17.58	17.65				
5	16QAM	25	0	17.71	17.65	17.66	19.5	0		
5	64QAM	1	0	17.77	17.56	17.76				
5	64QAM	1	12	17.67	17.67	17.67				
5	64QAM	1	8	17.66	17.69	17.63	19.5	0		
5	64QAM	1	14	17.61	17.51	17.59				
5	64QAM	8	0	17.65	17.79	17.74				
5	64QAM	8	4	17.63	17.61	17.59	19.5	0		
5	64QAM	8	7	17.68	17.66	17.65				
5	64QAM	15	0	17.65	17.65	17.65				
5	256QAM	1	0	17.54	17.65	17.61	19.5	0		
5	256QAM	1	12	17.57	17.71	17.65				
5	256QAM	1	24	17.56	17.54	17.55				
5	256QAM	12	0	17.59	17.66	17.59	19.5	0		
5	256QAM	12	7	17.62	17.70	17.66				
5	256QAM	12	13	17.69	17.74	17.74				
5	256QAM	25	0	17.72	17.69	17.66	19.5	0		
Channel				16975	16975	16975			Turn-up time (sec)	MFR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5	19.5	0		
3	QPSK	1	0	17.68	17.52	17.68				
3	QPSK	1	8	17.78	17.72	17.63				
3	QPSK	1	16	17.67	17.66	17.66	19.5	0		
3	QPSK	8	0	17.58	17.64	17.62				
3	QPSK	8	4	17.60	17.63	17.57				
3	QPSK	8	12	17.61	17.62	17.66	19.5	0		
3	QPSK	15	0	17.76	17.76	17.68				
3	16QAM	1	0	17.59	17.69	17.61				
3	16QAM	1	8	17.50	17.69	17.61	19.5	0		
3	16QAM	1	16	17.77	17.64	17.65				
3	16QAM	1	24	17.63	17.68	17.68				
3	16QAM	8	0	17.61	17.68	17.68	19.5	0		
3	16QAM	8	4	17.71	17.68	17.64				
3	16QAM	8	12	17.62	17.68	17.68				
3	16QAM	15	0	17.78	17.67	17.61	19.5	0		
3	64QAM	1	8	17.66	17.69	17.63				
3	64QAM	1	16	17.61	17.58	17.58				
3	64QAM	8	0	17.55	17.79	17.74	19.5	0		
3	64QAM	8	4	17.63	17.61	17.59				
3	64QAM	8	12	17.68	17.67	17.67				
3	256QAM	1	0	17.54	17.65	17.61	19.5	0		
3	256QAM	1	8	17.57	17.75	17.69				
3	256QAM	1	16	17.52	17.58	17.52				
3	256QAM	8	0	17.75	17.63	17.76	19.5	0		
3	256QAM	8	4	17.79	17.61	17.63				
3	256QAM	8	12	17.77	17.60	17.50				
3	256QAM	15	0	17.58	17.65	17.69	19.5	0		
Channel				1710.7	1732.5	1754.3			Turn-up time (sec)	MFR (dB)
1.4	QPSK	1	0	17.61	17.57	17.54	19.5	0		
1.4	QPSK	1	0	17.56	17.56	17.56				
1.4	QPSK	1	0	17.62	17.52	17.58				
1.4	QPSK	3	0	17.68	17.70	17.52	19.5	0		
1.4	QPSK	3	3	17.61	17.62	17.58				
1.4	QPSK	3	3	17.66	17.50	17.52				
1.4	QPSK	3	3	17.66	17.54	17.61	19.5	0		
1.4	QPSK	1	3	17.61	17.65	17.63				
1.4	QPSK	1	5	17.76	17.58	17.72				
1.4	QPSK	1	5	17.67	17.66	17.66	19.5	0		
1.4	QPSK	1	1	17.79	17.78	17.78				
1.4	QPSK	1	1	17.84	17.73	17.68				
1.4	QPSK	3	3	17.64	17.63	17.57	19.5	0		
1.4	QPSK	3	3	17.62	17.66	17.62				
1.4	QPSK	3	3	17.71	17.64	17.74				
1.4	QPSK	3	3	17.68	17.					



Band 38 Main PA Ant3 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Mod Ch / Freq	Power High Mod Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.90	21.22	21.10			
20	QPSK	1	48	20.94	21.05	20.94		22.5	0
20	QPSK	1	96	20.98	21.04	20.78			
20	QPSK	50	0	20.84	21.12	20.89			
20	QPSK	50	24	20.96	20.93	20.97		22.5	0
20	QPSK	50	48	20.92	21.07	20.89			
20	QPSK	100	0	20.96	21.08	20.83			
20	16QAM	1	0	20.82	21.08	20.91		22.5	0
20	16QAM	1	48	20.90	20.93	20.84			
20	16QAM	1	96	20.72	20.80	20.70			
20	16QAM	50	0	21.08	21.15	21.08			
20	16QAM	50	24	20.94	21.07	20.98		22.5	0
20	16QAM	50	50	21.02	21.11	21.07			
20	16QAM	100	0	20.90	21.05	20.94			
20	64QAM	1	0	20.75	20.83	20.73			
20	64QAM	1	48	20.70	20.77	20.68		22.5	0
20	64QAM	1	96	20.61	20.73	20.58			
20	64QAM	50	0	20.94	20.17	20.05			
20	64QAM	50	24	19.95	20.08	20.02			
20	64QAM	50	50	20.10	20.13	20.02		21.5	1
20	64QAM	100	0	19.94	20.05	20.02			
20	256QAM	1	0	17.84	17.87	17.84		19.5	3
20	256QAM	1	48	17.86	17.84	17.79			
20	256QAM	1	96	17.79	17.89	17.76			
20	256QAM	50	0	18.08	18.08	18.08			
20	256QAM	50	24	17.98	18.08	17.96		19.5	3
20	256QAM	50	50	18.09	18.14	18.09			
20	256QAM	100	0	17.96	18.04	17.93			
Channel									
Frequency (MHz)									
15	QPSK	1	0	20.70	21.04	21.00			
15	QPSK	1	37	20.78	20.90	20.81		22.5	0
15	QPSK	1	74	20.81	20.97	20.78			
15	QPSK	36	0	20.81	20.97	20.78			
15	QPSK	36	20	20.75	20.85	20.87		22.5	0
15	QPSK	36	36	20.82	20.81	20.81			
15	QPSK	75	0	20.75	21.00	20.93			
15	16QAM	1	0	20.73	21.07	20.94		22.5	0
15	16QAM	1	37	20.75	20.81	20.74			
15	16QAM	1	74	20.69	20.77	20.67			
15	16QAM	36	0	21.07	21.08	20.90			
15	16QAM	36	20	20.72	21.07	20.98		22.5	0
15	16QAM	36	36	20.94	21.07	20.86			
15	16QAM	75	0	20.95	20.89	20.87			
15	64QAM	1	0	20.75	20.84	20.72			
15	64QAM	1	37	20.68	20.58	20.64		22.5	0
15	64QAM	1	74	20.67	20.61	20.61			
15	64QAM	36	0	19.96	20.02	19.92			
15	64QAM	36	20	19.87	20.04	19.93		21.5	1
15	64QAM	36	36	20.06	20.02	20.06			
15	64QAM	75	0	19.94	19.94	19.90			
15	256QAM	1	0	17.73	17.82	17.84		19.5	3
15	256QAM	1	37	17.73	17.87	17.75			
15	256QAM	1	74	17.68	17.81	17.85			
15	256QAM	36	0	18.02	18.06	17.93			
15	256QAM	36	20	17.90	17.99	17.82		19.5	3
15	256QAM	36	36	18.04	18.01	18.02			
15	256QAM	75	0	17.82	17.99	17.88			
Channel									
Frequency (MHz)									
10	QPSK	1	0	20.80	21.07	21.03			
10	QPSK	1	20	20.78	21.02	20.93		22.5	0
10	QPSK	1	48	20.89	20.80	20.70			
10	QPSK	12	0	20.84	20.95	20.76			
10	QPSK	25	12	20.81	20.78	20.85		22.5	0
10	QPSK	25	25	20.72	20.85	20.71			
10	QPSK	25	48	20.82	21.03	20.74			
10	16QAM	1	0	20.78	20.90	20.78			
10	16QAM	1	20	20.93	20.84	20.67		22.5	0
10	16QAM	1	48	20.72	20.80	20.65			
10	16QAM	25	0	21.09	21.16	21.09			
10	16QAM	25	12	20.84	20.80	20.82		22.5	0
10	16QAM	25	25	20.92	21.04	20.92			
10	16QAM	50	0	20.78	21.05	20.83			
10	64QAM	1	0	20.75	20.72	20.53			
10	64QAM	1	20	20.54	20.74	20.53		22.5	0
10	64QAM	1	48	20.62	20.51	20.69			
10	64QAM	25	0	19.97	20.14	19.97			
10	64QAM	25	12	19.91	20.00	19.98		21.5	1
10	64QAM	25	25	20.06	20.07	19.96			
10	64QAM	50	0	19.81	20.01	19.92			
10	256QAM	1	0	17.76	17.85	17.81		19.5	3
10	256QAM	1	48	17.75	17.82	17.63			
10	256QAM	25	0	17.99	18.05	17.93			
10	256QAM	25	12	17.96	18.00	17.86		19.5	3
10	256QAM	25	25	17.97	18.02	17.99			
10	256QAM	50	0	17.86	17.97	17.82			
Channel									
Frequency (MHz)									
5	QPSK	1	0	20.74	21.06	20.90			
5	QPSK	1	12	20.80	20.95	20.83		22.5	0
5	QPSK	1	24	20.83	21.02	20.87			
5	QPSK	12	0	20.71	20.94	20.71			
5	QPSK	12	7	20.87	20.82	20.94		22.5	0
5	QPSK	12	13	20.63	20.90	20.72			
5	QPSK	25	0	20.96	20.85	20.86			
5	QPSK	25	6	20.79	21.03	20.91			
5	16QAM	1	12	20.82	20.74	20.79		22.5	0
5	16QAM	1	24	20.68	20.68	20.76			
5	16QAM	12	0	21.08	21.16	21.04			
5	16QAM	12	7	20.85	21.07	20.91		22.5	0
5	16QAM	12	13	21.02	21.02	21.00			
5	16QAM	25	0	20.94	21.06	20.85			
5	64QAM	1	0	20.61	20.72	20.61		22.5	0
5	64QAM	1	12	20.66	20.68	20.50			
5	64QAM	1	24	20.56	20.74	20.65			
5	64QAM	12	7	19.81	19.98	19.88		21.5	1
5	64QAM	12	13	20.07	20.10	19.91			
5	64QAM	25	0	19.93	19.94	19.92			
5	256QAM	1	0	17.80	17.88	17.79			
5	256QAM	1	12	17.79	17.81	17.70		19.5	3
5	256QAM	1	24	17.74	17.82	17.63			
5	256QAM	12	0	18.00	18.14	17.92			
5	256QAM	12	7	17.94	18.02	17.86		19.5	3
5	256QAM	12	13	17.97	18.11	18.03			
5	256QAM	25	0	17.82	17.94	17.86			

Band 41 Main PA Ant3 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Mod Ch / Freq	Power High Mod Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.15	21.20	21.33	21.24	21.22	
20	QPSK	1	48	21.00	21.10	21.28	21.00	21.07	
20	QPSK	1	96	21.14	20.82	21.09	21.13	20.98	22.5
20	QPSK	50	0	21.05	21.09	21.07	21.11	21.10	
20	QPSK	50	24	20.97	21.07	21.20	21.18	21.08	22.5
20	QPSK	50	50	21.00	20.98	21.01	20.90	20.90	
20	QPSK	100	0	21.06	21.08	21.10	20.88	20.96	
20	16QAM	1	0	20.97	20.96	20.97	20.99	20.81	22.5
20	16QAM	1	48	20.95	20.95	21.07	20.88	20.75	
20	16QAM	1	96	20.96	20.87	20.89	21.02	20.77	
20	16QAM	50	0	21.17	21.26	21.26	21.22	21.11	
20	16QAM	50	24	21.07	21.09	21.18	21.14	21.08	22.5
20	16QAM	50	50	21.17	21.11	21.27	21.19	21.08	
20	16QAM	100	0	21.26	21.29	21.19	21.05	20.95	
20	64QAM	1	0	20.95	20.95	20.97	20.95	20.95	
20	64QAM	1	48	20.71	20.78	20.83	20.84	20.70	22.5
20	64QAM	1	96	20.75	20.85	20.88	20.78	20.70	
20	64QAM	50	0	20.16	20.12	20.20	20.20	20.07	
20	64QAM	50	24	20.08	20.08	20.21	20.11	20.06	21.5
20	64QAM	50	50	20.16	20.27	20.20	20.15	20.16	
20	64QAM	100	0	20.07	20.03	20.11	20.16	19.98	
20	256QAM	1	0	18.96	17.94	18.09	18.03	17.89	19.5
20	256QAM	1	48	17.90	18.00	18.04	17.87	17.89	
20	256QAM	1	96	17.89	17.92	18.02	17.88	17.80	
20	256QAM	50	0	18.08	18.16	18.24	18.00	18.14	
20	256QAM	50	24	18.11	18.06	18.20	18.06	18.11	19.5
20	256QAM	50	50	18.12	18.17	18.21	18.14	18.06	
20	256QAM	100	0	18.05	18.10	18.05	18.04	17.96	

Band 2 Main PA Ant4 DSI4												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 18000	Power Mid Ch./Freq. 18500	Power High Ch./Freq. 19000	Turn-up time (sec)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	18.41	18.43	18.38	20.5	0				
20	QPSK	1	49	18.41	18.22	18.38						
20	QPSK	1	99	18.27	18.25	18.18						
20	QPSK	50	0	18.36	18.42	18.36						
20	QPSK	50	24	18.30	18.38	18.24	20.5	0				
20	QPSK	50	50	18.16	18.31	18.23						
20	QPSK	100	0	18.33	18.37	18.28						
20	16QAM	100	0	18.32	18.30	18.28						
20	16QAM	1	49	18.17	18.16	18.14	20.5	0				
20	16QAM	1	99	18.28	18.15	18.10						
20	16QAM	50	0	18.33	18.40	18.28						
20	16QAM	50	24	18.17	18.32	18.27						
20	16QAM	100	0	18.29	18.36	18.25	20.5	0				
20	16QAM	100	0	18.24	18.30	18.22						
20	64QAM	1	0	18.39	18.32	18.41						
20	64QAM	1	49	18.43	18.46	18.39						
20	64QAM	50	0	18.43	18.47	18.41	20.5	0				
20	64QAM	50	24	18.29	18.38	18.31						
20	64QAM	50	50	18.35	18.45	18.36						
20	64QAM	100	0	18.22	18.35	18.30						
20	256QAM	1	49	18.40	18.47	18.33	19.5	1				
20	256QAM	1	99	18.34	18.42	18.33						
20	256QAM	50	0	18.35	18.43	18.41						
20	256QAM	50	24	18.31	18.35	18.24						
20	256QAM	50	50	18.30	18.40	18.34	19.5	1				
20	256QAM	100	0	18.27	18.34	18.27						
Channel												
Frequency (MHz)												
18	QPSK	1	37	18.31	18.25	18.23	20.5	0				
18	QPSK	1	37	18.14	18.33	18.27						
18	QPSK	1	74	18.19	18.12	18.23						
18	QPSK	36	0	18.30	18.32	18.31						
18	QPSK	36	0	18.18	18.28	18.20	20.5	0				
18	QPSK	36	39	18.11	18.22	18.19						
18	QPSK	75	0	18.19	18.25	18.19						
18	16QAM	1	37	18.14	18.28	18.16						
18	16QAM	1	37	18.10	18.10	18.22	20.5	0				
18	16QAM	1	74	18.24	18.30	18.27						
18	16QAM	36	0	18.20	18.30	18.16						
18	16QAM	36	20	18.13	18.26	18.12						
18	16QAM	75	0	18.19	18.25	18.07	20.5	0				
18	64QAM	1	0	18.35	18.46	18.28						
18	64QAM	1	37	18.31	18.37	18.30						
18	64QAM	1	74	18.29	18.35	18.23						
18	64QAM	36	0	18.36	18.35	18.33	20.5	0				
18	64QAM	36	20	18.26	18.28	18.24						
18	64QAM	36	39	18.32	18.35	18.25						
18	64QAM	75	0	18.12	18.21	18.15						
18	256QAM	1	37	18.27	18.30	18.20	19.5	1				
18	256QAM	1	74	18.30	18.39	18.19						
18	256QAM	36	0	18.27	18.30	18.20						
18	256QAM	36	20	18.18	18.25	18.11						
18	256QAM	36	39	18.17	18.34	18.27	19.5	1				
18	256QAM	75	0	18.14	18.27	18.17						
Channel												
Frequency (MHz)												
18	QPSK	1	25	18.12	18.21	18.16	20.5	0				
18	QPSK	1	49	18.24	18.28	18.26						
18	QPSK	25	0	18.23	18.48	18.48						
18	QPSK	25	12	18.17	18.28	18.19						
18	QPSK	25	25	18.07	18.26	18.13	20.5	0				
18	QPSK	50	0	18.28	18.26	18.26						
18	16QAM	1	0	18.08	18.19	18.10						
18	16QAM	1	25	18.27	18.16	18.16						
18	16QAM	1	49	18.24	18.28	18.27	20.5	0				
18	16QAM	25	0	18.27	18.25	18.19						
18	16QAM	25	12	18.09	18.23	18.15						
18	16QAM	50	0	18.18	18.27	18.13						
18	16QAM	50	0	18.17	18.16	18.15	20.5	0				
18	64QAM	1	0	18.26	18.43	18.33						
18	64QAM	1	24	18.37	18.42	18.37						
18	64QAM	1	49	18.24	18.28	18.27						
18	64QAM	25	0	18.35	18.43	18.36	20.5	0				
18	64QAM	25	12	18.26	18.39	18.25						
18	64QAM	25	25	18.26	18.36	18.29						
18	64QAM	50	0	18.09	18.22	18.23						
18	256QAM	1	24	18.34	18.44	18.44	19.5	1				
18	256QAM	1	25	18.32	18.42	18.42						
18	256QAM	1	49	18.24	18.33	18.25						
18	256QAM	25	0	18.30	18.32	18.28						
18	256QAM	25	12	18.26	18.28	18.16	19.5	1				
18	256QAM	25	25	18.22	18.26	18.19						
18	256QAM	50	0	18.23	18.34	18.31						
Channel												
Frequency (MHz)												
5	QPSK	1	0	18.26	18.26	18.26	20.5	0				
5	QPSK	1	12	18.31	18.15	18.22						
5	QPSK	1	24	18.23	18.15	18.13						
5	QPSK	12	0	18.33	18.33	18.36						
5	QPSK	12	7	18.21	18.26	18.19	20.5	0				
5	QPSK	12	13	18.08	18.19	18.15						
5	QPSK	25	0	18.26	18.26	18.26						
5	16QAM	1	0	18.19	18.32	18.05						
5	16QAM	1	12	18.35	18.17	18.07	20.5	0				
5	16QAM	1	24	18.20	18.26	18.26						
5	16QAM	12	0	18.20	18.28	18.18						
5	16QAM	12	7	18.03	18.24	18.13						
5	16QAM	12	13	18.24	18.31	18.14	20.5	0				
5	16QAM	25	0	18.14	18.21	18.12						
5	64QAM	1	0	18.26	18.45	18.30						
5	64QAM	1	12	18.37	18.42	18.33						
5	64QAM	1	24	18.24	18.26	18.29	20.5	0				
5	64QAM	12	0	18.29	18.36	18.35						
5	64QAM	12	7	18.17	18.35	18.18						
5	64QAM	12	13	18.25	18.31	18.33						
5	64QAM	25	0	18.14	18.21	18.17	20.5	0				
5	256QAM	1	0	18.37	18.41	18.31						
5	256QAM	1	12	18.32	18.39	18.19						
5	256QAM	1	24	18.27	18.28	18.23						
5	256QAM	12	0	18.26	18.31	18.28	19.5	1				
5	256QAM	12	7	18.19	18.28	18.11						
5	256QAM	12	13	18.48	18.21	18.22						
5	256QAM	25	0	18.16	18.28	18.23						
Channel												
Frequency (MHz)												
3	QPSK	1	0	18.25	18.37	18.23	20.5	0				
3	QPSK	1	8	18.23	18.22	18.13						
3	QPSK	1	14	18.30	18.16	18.25						
3	QPSK	8	0	18.21	18.33	18.26						
3	QPSK	8	4	18.23	18.31	18.14	20.5	0				
3	QPSK	8	7	18.10	18.19	18.20						
3	QPSK	15	0	18.22	18.27	18.16						
3	16QAM	1	0	18.30	18.36	18.23						
3	16QAM	1	8	18.10	18.35	18.13	20.5	0				
3	16QAM	1	14	18.26	18.13	18.07						
3	16QAM	8	0	18.21	18.34	18.17						
3	16QAM	8	4	18.08	18.18	18.23						
3	16QAM	15	0	18.15	18.24	18.12	20.5	0				
3	16QAM	15	7	18.07	18.21	18.17						
3	16QAM	15	14	18.26	18.16	18.07						
3	16QAM	8	0	18.21	18.34	18.17						
3	16QAM	1	0	18.25	18.37	18.23	20.5	0				
3	16QAM	1	8	18.23	18.22	18.13						
3	16QAM	1	14	18.30	18.16	18.25						
3	16QAM	8	0	18.21	18.33	18.26						
3	16QAM	8	4	18.23	18.31	18.14	20.5	0				
3	16QAM	8	7	18.10	18.19	18.20						
3	16QAM	15	0	18.22	18.27	18.16						
3	16QAM	15	7	18.19	18.29	18.15						
3	16QAM	15	14	18.26	18.16	18.07	20.5	0				
3	16QAM	8	0	18.21	18.34	18.17						
3	16QAM	8	4	18.08	18.18	18.23						
3	16QAM	15	0	18.15	18.24	18.12						
3	16QAM	15	7	18.07	18.21	18.17	20.5	0				
3	16QAM	15	14	18.26	18.16	18.07						
3	16QAM	8	0	18.21	18.34	18.17						
3	16QAM	8	4	18.08	18.18	18.23						
3	16QAM	15	0	18.15	18.24	18.12	20.5	0				
3	16QAM	15	7	18.07	18.21	18.17						
3	16QAM	15	14	18.26	18.16	18.07						
3	16QAM	8	0	18.21	18.34	18.17						
3	16QAM	1	0	18.25	18.37	18.23	20.5	0				
3	16QAM	1	8	18.23	18.22	18.13						
3	16QAM	1	14	18.30	18.16	18.25						
3	16QAM	8	0	18.21	18.33	18.26						
3	16QAM	8	4	18.23	18.31	18.14	20.5	0				
3	16QAM	8	7	18.10	18.19	18.20						
3	16QAM	15	0	18.22	18.27	18.16						
3	16QAM	15	7	18.19	18.29	18.15						
3	16QAM	15	14	18.26	18.16	18.07	20.5	0				
3	16QAM	8	0	18.21	18.34	18.17						
3	16QAM	8	4	18.08	18.18	18.23						
3	16QAM	15	0	18.15	18.24	18.12						
3	16QAM	15	7	18.07	18.21	18.17	20.5	0				
3	16QAM	15	14	18.26	18.16	18.07						
3	16QAM	8	0	18.21	18.34	18.17						
3	16QAM	8	4	18.08	18.18	18.23						
3	16QAM	15	0	18.15	18.24	18.12	20.5	0				
3	16QAM	15	7	18.07	18.21	18.17						
3	16QAM	15	14	18.26	18.16	18.07						
3	16QAM	8	0	18.21	18.34	18.17						
3	16QAM	1	0	18.25	18.37	18.23	20.5	0				
3	16QAM	1	8	18.23	18.22	18.13						
3	16QAM	1	14	18.30	18.16	18.25						
3	16QAM	8	0	18.21	18.33	18.26						
3	16QAM	8	4	18.23	18.31	18.14	20.5	0				
3	16QAM	8	7	18.10	18.19	18.20						
3	16QAM	15	0	18.22	18.27	18.16						
3	16QAM	15	7	18.19	18.29	18.15						
3	16QAM	15	14	18.26	18.16	18.07	20.5	0				
3	16QAM	8	0	18.21	18.34	18.17						
3	16QAM	8	4	18.08	18.18	18						

Band 25 Main PA Ant4												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up (ms)	MPR (dB)				
Channel												
1800 1880 1900												
20	QPSK	1	0	23.31	23.42	23.27	24.5	0				
20	QPSK	1	49	23.29	23.34	23.24						
20	QPSK	1	99	23.16	23.29	23.21						
20	QPSK	50	0	22.24	22.52	22.26						
20	QPSK	50	24	22.22	22.22	22.12	23.5	1				
20	QPSK	100	0	22.16	22.25	22.20						
20	16QAM	1	0	22.65	22.65	22.66						
20	16QAM	1	49	22.48	22.59	22.47						
20	16QAM	1	99	22.52	22.55	22.43	23.5	1				
20	16QAM	50	0	21.31	21.39	21.28						
20	16QAM	50	24	21.19	21.28	21.15						
20	16QAM	100	0	21.19	21.29	21.19						
20	64QAM	1	0	21.44	21.51	21.47	22.5	2				
20	64QAM	1	49	21.31	21.45	21.39						
20	64QAM	1	99	21.27	21.41	21.28						
20	64QAM	50	0	20.31	20.42	20.32						
20	64QAM	50	24	20.19	20.33	20.22	21.5	3				
20	64QAM	50	50	20.28	20.38	20.25						
20	256QAM	1	0	18.45	18.50	18.36						
20	256QAM	1	49	18.40	18.47	18.42						
20	256QAM	1	99	18.38	18.42	18.32	19.5	5				
20	256QAM	50	0	18.28	18.41	18.28						
20	256QAM	50	24	18.27	18.31	18.18						
20	256QAM	50	50	18.25	18.37	18.33						
20	256QAM	100	0	18.23	18.30	18.25						
Channel												
1807.5 1880 1907.5												
15	QPSK	1	0	23.20	23.36	23.13	24.5	0				
15	QPSK	1	37	23.20	23.30	23.20						
15	QPSK	1	74	23.07	23.16	23.17						
15	QPSK	36	0	22.13	22.26	22.07						
15	QPSK	36	20	22.15	22.15	22.07	23.5	1				
15	QPSK	36	39	22.12	22.09	22.06						
15	QPSK	75	0	22.09	22.16	22.07						
15	16QAM	1	0	22.45	22.54	22.49						
15	16QAM	1	37	22.38	22.59	22.33	23.5	1				
15	16QAM	1	74	22.43	22.47	22.43						
15	16QAM	36	0	21.18	21.22	21.23						
15	16QAM	36	20	21.13	21.18	21.08						
15	16QAM	50	0	21.04	21.12	21.09	22.5	2				
15	64QAM	1	0	21.32	21.42	21.41						
15	64QAM	1	37	21.35	21.47	21.47						
15	64QAM	1	74	21.17	21.20	21.19						
15	64QAM	36	0	20.20	20.36	20.17	21.5	3				
15	64QAM	36	20	20.20	20.27	20.17						
15	64QAM	36	39	20.22	20.25	20.19						
15	64QAM	75	0	20.22	20.23	20.16						
15	256QAM	1	0	18.34	18.36	18.34	19.5	5				
15	256QAM	1	37	18.34	18.32	18.29						
15	256QAM	1	74	18.29	18.36	18.22						
15	256QAM	36	0	18.18	18.38	18.32						
15	256QAM	36	20	18.13	18.25	18.11	19.5	5				
15	256QAM	36	39	18.15	18.32	18.26						
15	256QAM	75	0	18.13	18.26	18.28						
Channel												
1809.5 1880 1909.5												
10	QPSK	1	0	23.27	23.30	23.15	24.5	0				
10	QPSK	1	25	23.17	23.24	23.20						
10	QPSK	1	49	23.10	23.18	23.11						
10	QPSK	25	12	22.16	22.19	22.07						
10	QPSK	25	19	22.04	22.11	22.01	23.5	1				
10	QPSK	50	0	22.12	22.12	22.12						
10	16QAM	1	0	22.42	22.50	22.47						
10	16QAM	1	25	22.34	22.50	22.42						
10	16QAM	1	49	22.45	22.45	22.36	23.5	1				
10	16QAM	25	0	21.22	21.29	21.19						
10	16QAM	25	12	21.14	21.17	21.08						
10	16QAM	25	19	21.05	21.10	21.15						
10	16QAM	50	0	21.08	21.10	21.07	22.5	2				
10	64QAM	1	0	21.32	21.36	21.44						
10	64QAM	1	25	21.35	21.35	21.36						
10	64QAM	1	49	21.17	21.34	21.18						
10	64QAM	25	0	20.24	20.30	20.29	21.5	3				
10	64QAM	25	12	20.25	20.30	20.18						
10	64QAM	25	19	20.23	20.33	20.20						
10	64QAM	50	0	20.20	20.22	20.20						
10	256QAM	1	0	18.40	18.43	18.33	19.5	5				
10	256QAM	1	25	18.36	18.39	18.33						
10	256QAM	1	49	18.30	18.35	18.27						
10	256QAM	25	0	18.21	18.25	18.21						
10	256QAM	25	12	18.20	18.20	18.12	19.5	5				
10	256QAM	25	19	18.11	18.25	18.20						
10	256QAM	50	0	18.20	18.20	18.24						
Channel												
1809.5 1880 1909.5												
5	QPSK	1	0	23.24	23.31	23.19	24.5	0				
5	QPSK	1	12	23.18	23.20	23.15						
5	QPSK	1	24	23.02	23.15	23.14						
5	QPSK	12	0	22.13	22.16	22.16						
5	QPSK	12	7	22.09	22.21	22.16	23.5	1				
5	QPSK	12	13	22.08	22.14	22.09						
5	QPSK	25	0	22.09	22.21	22.16						
5	16QAM	1	0	22.47	22.51	22.45						
5	16QAM	1	12	22.43	22.44	22.43	23.5	1				
5	16QAM	1	24	22.37	22.45	22.33						
5	16QAM	12	0	21.17	21.33	21.24						
5	16QAM	12	7	21.07	21.24	21.07						
5	16QAM	12	13	21.09	21.22	21.09	22.5	2				
5	64QAM	1	0	21.39	21.43	21.32						
5	64QAM	1	12	21.20	21.33	21.30						
5	64QAM	1	24	21.18	21.28	21.17						
5	64QAM	12	0	20.17	20.31	20.20	21.5	3				
5	64QAM	12	7	20.08	20.20	20.13						
5	64QAM	12	13	20.20	20.30	20.20						
5	64QAM	25	0	20.19	20.16	20.21						
5	256QAM	1	0	18.31	18.39	18.33	19.5	5				
5	256QAM	1	12	18.35	18.37	18.27						
5	256QAM	1	24	18.28	18.28	18.16						
5	256QAM	12	0	18.18	18.32	18.25						
5	256QAM	12	7	18.23	18.20	18.07	19.5	5				
5	256QAM	12	13	18.12	18.32	18.21						
5	256QAM	25	0	18.14	18.30	18.25						
Channel												
1809.5 1880 1909.5												
3	QPSK	1	0	23.24	23.26	23.16	24.5	0				
3	QPSK	1	8	23.18	23.24	23.16						
3	QPSK	1	14	23.03	23.22	23.08						
3	QPSK	8	0	22.16	22.21	22.11						
3	QPSK	8	4	22.12	22.16	22.13	23.5	1				
3	QPSK	8	7	22.05	22.14	22.08						
3	QPSK	15	0	22.02	22.14	22.14						
3	16QAM	1	0	22.50	22.60	22.42						
3	16QAM	1	8	22.38	22.45	22.36	23.5	1				
3	16QAM	1	14	22.44	22.49	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46	22.30						
3	16QAM	1	24	22.28	22.27	22.12	22.5	2				
3	16QAM	1	14	22.44	22.46							



Band 38 Main PA Ant4 DSI4												
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)												
20	QPSK	1	0	21.26	21.32	21.30	21.7	0				
20	QPSK	1	48	21.10	21.31	21.15						
20	QPSK	1	96	21.09	21.32	21.01						
20	QPSK	50	0	21.09	21.19	21.19						
20	QPSK	50	24	21.16	21.06	21.06	21.7	0				
20	QPSK	50	48	21.10	21.08	21.08						
20	QPSK	100	0	21.04	21.16	20.97						
20	16QAM	1	0	21.21	21.19	21.04						
20	16QAM	1	48	21.01	21.07	20.97	21.7	0				
20	16QAM	1	96	21.05	21.01	20.87						
20	16QAM	50	0	21.08	21.17	21.04						
20	16QAM	50	24	21.14	21.26	21.23						
20	16QAM	100	0	21.09	21.25	21.04	21.7	0				
20	16QAM	100	0	21.15	21.17	21.11						
20	16QAM	1	48	21.04	21.04	21.16						
20	16QAM	1	96	20.95	21.03	20.93						
20	16QAM	50	0	21.13	21.09	21.12	21.7	0				
20	16QAM	50	24	21.09	21.13	21.12						
20	16QAM	50	50	21.16	21.10	21.11						
20	16QAM	100	0	21.16	21.10	20.92						
20	25QAM	1	0	20.23	20.26	20.19	20.7	1				
20	25QAM	1	48	20.11	20.16	20.09						
20	25QAM	1	96	20.00	20.07	19.95						
20	25QAM	50	0	20.07	20.12	20.06						
20	25QAM	50	24	20.05	20.10	20.04	20.7	1				
20	25QAM	50	50	20.14	20.18	20.08						
20	25QAM	100	0	20.05	20.17	20.03						
Channel												
Frequency (MHz)												
15	QPSK	1	0	21.13	21.14	21.23	21.7	0				
15	QPSK	1	37	20.99	21.17	20.99						
15	QPSK	1	74	21.02	21.20	20.81						
15	QPSK	36	0	21.01	20.99	21.13						
15	QPSK	36	20	20.97	20.96	20.96	21.7	0				
15	QPSK	36	36	21.17	21.11	20.98						
15	QPSK	75	0	21.00	20.99	20.87						
15	16QAM	1	0	21.07	20.88	20.82	21.7	0				
15	16QAM	1	37	20.99	21.01	20.78						
15	16QAM	1	74	20.99	20.83	20.73						
15	16QAM	36	0	21.08	21.13	21.06						
15	16QAM	36	20	21.00	21.04	21.06	21.7	0				
15	16QAM	36	36	20.91	21.08	21.24						
15	16QAM	75	0	20.87	21.03	20.91						
15	16QAM	1	0	21.01	21.04	21.05						
15	16QAM	1	37	20.97	21.05	20.88	21.7	0				
15	16QAM	1	74	20.97	20.83	20.82						
15	16QAM	36	0	21.01	21.05	21.05						
15	16QAM	36	20	20.91	21.02	21.02						
15	16QAM	36	36	21.00	20.97	21.06	21.7	0				
15	16QAM	75	0	21.04	20.90	20.82						
15	25QAM	1	0	20.14	20.14	20.05						
15	25QAM	1	37	19.99	20.13	19.96						
15	25QAM	1	74	19.96	19.98	19.92	20.7	1				
15	25QAM	36	0	19.99	20.02	19.97						
15	25QAM	36	20	19.89	19.99	19.97						
15	25QAM	36	36	20.01	20.05	19.99						
15	25QAM	75	0	19.99	20.13	19.96	20.7	1				
Channel												
Frequency (MHz)												
10	QPSK	1	0	21.03	21.31	21.00	21.7	0				
10	QPSK	1	25	21.11	21.28	21.00						
10	QPSK	1	48	21.02	21.15	20.90						
10	QPSK	25	0	21.02	21.15	21.00						
10	QPSK	25	12	21.17	20.88	20.96	21.7	0				
10	QPSK	25	25	21.03	20.89	21.09						
10	QPSK	1	0	21.06	21.15	21.06						
10	16QAM	1	0	21.00	21.13	20.87						
10	16QAM	1	25	20.84	20.98	20.96	21.7	0				
10	16QAM	1	48	21.02	20.95	20.89						
10	16QAM	25	0	21.02	21.13	20.81						
10	16QAM	25	0	20.90	21.07	21.02						
10	16QAM	25	12	20.99	21.10	20.99	21.7	0				
10	16QAM	25	12	20.96	21.12	21.02						
10	16QAM	50	0	20.99	21.05	20.96						
10	16QAM	25	0	21.02	21.13	20.81	21.7	0				
10	16QAM	1	25	21.05	21.01	21.08						
10	16QAM	1	48	20.83	21.01	20.85						
10	16QAM	25	0	20.97	21.03	20.96						
10	16QAM	25	12	21.05	20.97	21.13	21.7	0				
10	16QAM	25	25	21.10	20.81	20.98						
10	16QAM	50	0	20.95	21.08	20.77						
10	25QAM	1	0	20.11	20.11	20.06						
10	25QAM	1	25	19.98	20.02	19.95	20.7	1				
10	25QAM	1	48	19.90	19.92	19.91						
10	25QAM	25	0	19.95	19.99	19.98						
10	25QAM	25	12	19.90	20.00	20.00						
10	25QAM	25	25	20.02	20.14	20.03	20.7	1				
10	25QAM	50	0	19.93	20.13	19.97						
Channel												
Frequency (MHz)												
5	QPSK	1	0	21.17	21.25	21.27	21.7	0				
5	QPSK	1	16	20.90	21.21	20.94						
5	QPSK	1	24	21.05	21.13	21.01						
5	QPSK	12	0	21.07	21.06	21.06						
5	QPSK	12	7	21.01	20.87	20.91	21.7	0				
5	QPSK	12	18	21.05	21.08	20.94						
5	QPSK	25	0	21.01	20.99	20.77						
5	16QAM	1	0	21.01	20.99	21.04						
5	16QAM	1	12	20.91	20.81	20.96	21.7	0				
5	16QAM	1	24	21.04	20.93	20.87						
5	16QAM	12	0	20.94	21.15	20.88						
5	16QAM	12	7	21.01	21.25	20.99						
5	16QAM	12	13	20.94	21.18	21.24	21.7	0				
5	16QAM	25	0	20.86	21.05	20.99						
5	16QAM	1	0	21.00	21.02	21.07						
5	16QAM	1	12	21.00	20.92	21.08						
5	16QAM	1	24	21.00	20.96	20.70	21.7	0				
5	16QAM	12	0	20.93	21.10	21.04						
5	16QAM	12	7	21.10	21.07	20.90						
5	16QAM	12	13	20.99	20.92	21.01						
5	16QAM	25	0	20.97	20.97	20.80	20.7	1				
5	25QAM	1	0	20.00	20.23	20.11						
5	25QAM	1	12	19.97	20.12	20.01						
5	25QAM	1	24	19.88	19.84	19.88						
5	25QAM	12	0	19.98	19.99	19.98	20.7	1				
5	25QAM	12	7	19.85	19.88	19.94						
5	25QAM	12	13	20.00	20.09	19.96						
5	25QAM	25	0	19.92	20.06	19.91						

Band 41 Main PA Ant4 DSI4												
BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Ch / Freq	Power (dBm) Ch / Freq	Power (dBm) Ch / Freq	Power (dBm) Ch / Freq	Power (dBm) Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel												
Frequency (MHz)												
20	QPSK	1	0	21.16	21.41	21.46	21.32	21.19	21.7	0		
20	QPSK	1	48	21.32	21.13	21.45	21.36	21.11				
20	QPSK	1	96	21.38	21.27	21.29	21.36	21.26				
20	QPSK	50	0	21.30	21.18	21.42	21.09	21.36	21.7	0		
20	QPSK	50	24	21.25	21.17	21.23	21.02	21.16				
20	QPSK	50	48	21.22	21.16	21.22	21.02	21.16				
20	QPSK	100	0	21.15	21.22	21.33	21.12	21.20	21.7	0		
20	16QAM	1	0	21.34	21.31	21.38	21.36	21.39				
20	16QAM	1	48	21.22	21.22	21.22	21.22	21.27				
20	16QAM	1	96	21.35	21.37	21.39	21.23	21.12	21.7	0		
20	16QAM	50	0	21.12	21.15	21.27	21.10	21.24				
20	16QAM	50	24	21.09	21.09	21.20	21.09	21.24				
20	16QAM	50	50	21.12	21.21	21.31	21.21	21.00	21.7	0		
20	16QAM	100	0	21.06	21.01	21.22	21.00	21.04				
20	16QAM	100	24	20.84	20.76	20.88	20.87	20.85				
20	64QAM	1	48	20.77	20.76	20.88	20.67	20.65	21.7	0		
20	64QAM	1	96	20.66	20.66	20.66	20.66	20.66				
20	64QAM	50	0	21.18	21.23	21.42	21.22	21.17				
20	64QAM	50	24	21.12	21.03	21.15	21.12	21.11	21.7	0		
20	64QAM	50	48	21.16	21.13	21.29	21.20	21.32				
20	64QAM	100	0	21.16	21.18	21.24	21.20	20.99				
20	256QAM	1	0	20.27	20.20	20.32	20.29	20.19	20.7	0		
20	256QAM	1	48	20.19	20.19	20.29	20.18	20.19				
20	256QAM	1	96	20.16	20.17	20.24	20.16	20.17				
20	256QAM	50	0	20.19	20.19	20.29	20.17	20.16	20.7	0		
20	256QAM	50	24	19.95	20.08	20.13	20.05	20.07				
20	256QAM	50	48	20.11	20.13	20.19	20.09	20.15				
20	256QAM	100	0	20.12	20.12	20.29	20.08	20.14	21.7	0		
Channel												
Frequency (MHz)												
15	QPSK	1	0	21.16	21.41	21.46	21.32	21.19	22.0	0		
15	QPSK	1	37	21.31	21.13	21.35	21.33	21.19				
15	QPSK	1	74	21.04	21.00	21.22	21.06	21.11				
15	QPSK	50	0	21.38	21.28	21.42	21.28	21.11	21.7	0		
15	QPSK	50	24	21.14	21.08	21.24	21.05	21.04				
15	QPSK	50	48	21.08	21.13	21.24	21.03	21.08				
15	QPSK	75	0	21.26	21.26	21.29	21.12	21.24	21.7	0		
15	16QAM	1	0	21.37	21.25	21.31	21.36	21.31				
15	16QAM	1	37	21.20	21.27	21.28	21.28	21.21				
15	16QAM	1	74	21.36	21.27	21.27	21.23	21.21	21.7	0		
15	16QAM	50	0	21.00	21.04	21.29	21.01	21.04				
15	16QAM	50	24	21.03	21.03	21.29	21.03	21.11				
15	16QAM	50	48	21.03	21.29	21.20	21.03	21.03	21.7	0		
15	16QAM	75	0	21.13	21.29	21.20	21.11	21.05				
15	16QAM	75	37	20.87	20.86	20.84	20.88	20.75				
15	64QAM	1	37	20.71	20.70	20.76	20.69	20.65	21.7	0		
15	64QAM	1	74	20.62	20.62	20.62	20.62	20.62				
15	64QAM	36	0	21.07	21.13	21.48	21.17	21.14				
15	64QAM	36	20	21.20	21.09	21.06	21.20	21.01	21.7	0		
15	64QAM	36	40	21.19	21.09	21.09	21.19	21.01				
15	64QAM	75	0	21.16	21.21	21.11	21.20	20.99				
15	256QAM	1	37	20.12	20.13	20.25	20.10	20.12	20.7	1		
15	256QAM	1	74	20.02	20.04	20.09	20.08	20.10				
15	256QAM	36	0	20.66	20.66	20.66	20.66	20.66				
15	256QAM	36	20	19.90	20.00	20.05	19.95	19.98	20.7	1		
15	256QAM	36	40	20.07	20.10	20.12	20.02	19.99				
15	256QAM	75	0	20.04	20.06	20.10	20.04	20.04				
Channel												
Frequency (MHz)												
10	QPSK	1	0	21.16	21.41	21.46	21.32	21.19	22.0	0		
10	QPSK	1	25	21.28	21.19	21.33	21.36	21.06				
10	QPSK	1	50	21.13	21.19	21.35	21.35	21.06				
10	QPSK	25	0	21.39	21.19	21.37	21.15	21.29	21.7	0		
10	QPSK	25	12	21.24	21.04	21.32	21.02	21.24				
10	QPSK	25	25	21.10	21.05	21.21	21.03	21.09				
10	QPSK	50	0	21.12	21.21	21.33	21.18	21.28	21.7	0		
10	16QAM	1	0	21.23	21.22	21.31	21.32	21.37				
10	16QAM	1	25	21.19	21.19	21.27	21.28	21.29				
10	16QAM	25	0	21.10	21.08	21.29	21.09	21.33	21.7	0		
10	16QAM	25	12	21.07	21.07	21.29	21.11	21.17				
10	16QAM	25	25	21.22	21.10	21.29	21.14	21.10				
10	64QAM	1	0	21.06	21.10	21.21	21.08	21.06	21.7	0		
10	64QAM	1	25	20.79	20.83	20.92	20.81	20.81				
10	64QAM	1	50	20.68	20.68	20.68	20.68	20.68				
10	64QAM	25	0	21.28	21.23	21.36	21.52	21.07	21.7	0		
10	64QAM	25	12	21.01	20.97	21.18	21.22	21.10				
10	64QAM	25	25	21.08	21.22	21.19	21.11	21.17				
10	64QAM	50	0	21.28	21.15	21.27	21.21	21.00	20.7	1		
10	256QAM	1	0	20.23	20.23	20.23	20.23	20.26				
10	256QAM	1	25	20.16	20.12	20.28	20.05	20.06				
10	256QAM	1	49	20.07	20.11	20.09	20.03	20.10	20.7	1		
10	256QAM	25	0	20.12	20.13	20.13	20.12	20.13				
10	256QAM	25	12	19.95	20.05	20.04	19.96	20.01				
10	256QAM	25	25	20.01	19.99	20.03	20.06	20.02	20.7	1		
10	256QAM	50	0	20.07	19.98	20.07	20.07	20.07				
10	256QAM	50	25	19.97	20.04	20.05	19.98	20.05				
Channel												
Frequency (MHz)												
5	QPSK	1	0	21.13	21.34	21.36	21.20	21.22	22.0	0		
5	QPSK	1	12	21.20	21.02	21.38	21.38	21.13				
5	QPSK	1	24	21.06	21.24	21.07	21.21	21.06				
5	QPSK	12	0	21.25	21.29	21.33	21.11	21.30	21.7	0		
5	QPSK	12	7	21.31	21.24	21.24	20.91	21.16				
5	QPSK	12	14	21.17	21.07	21.21	21.03	21.06				
5	16QAM	1	0	21.22	21.31	21.38	21.12	21.22	21.7	0		
5	16QAM	1	12	21.30	21.19	21.23	21.29	21.37				
5	16QAM	1	24	21.17	21.17	21.17	21.17	21.17				
5	16QAM	12	0	21.37	21.41	21.29	21.30	21.03	21.7	0		
5	16QAM	12	7	21.09	21.09	21.29	21.27	21.14				
5	16QAM	12	7	20.85	21.01	21.23	20.97	21.14				
5	64QAM	1	12	21.03	21.28	21.23	21.14	20.59	21.7	0		
5	64QAM	1	24	21.03	21.11	21.25	21.20	21.06				
5	64QAM	1	36	20.92	20.78	20.85	20.73	20.59				
5	64QAM	1	12	20.85	20.68	20.80	20.55	20.59	21.7	0		
5	64QAM	12	7	21.00	21.01	21.16	21.10	21.07				
5	64QAM	12	14	21.03	21.09	21.23	21.27	21.43				
5	64QAM	25	0	21.22	21.28	21.12	21.08	20.96	20.7	1		
5	256QAM	1	0	20.29	20.29	20.29	20.29	20.10				
5	256QAM	1	24	20.13	20.09	20.15	20.10	20.07				
5	256QAM	12	0	20.11	20.09	20.11	20.11	20.11	20.7	1		
5	256QAM	12	7	19.90	19.98	20.04	19.95	19.99				
5	256QAM	12	13	20.11	20.02	20.15	19.96	20.00				
5	256QAM	25	0	20.08	20.08	20.08	20.08	20.08				



Band 42 FCC Part27Q Main PA Ant5 DSI4													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)					
Channel				42190	42590	42990							
Frequency (MHz)				34145	35000	35445							
20	QPSK	1	0	20.60	20.60	20.64	21	0					
20	QPSK	1	49	20.52	20.58	20.55							
20	QPSK	1	98	20.31	20.60	20.65							
20	QPSK	50	0	20.19	20.47	20.34	21	0					
20	QPSK	50	24	20.06	20.32	20.14							
20	QPSK	50	50	20.07	20.24	20.24							
20	QPSK	100	0	20.15	20.21	20.20	21	0					
20	HQAM	1	0	20.61	20.17	20.21							
20	HQAM	1	49	20.15	20.15	19.96							
20	HQAM	1	99	20.09	20.24	20.08	21	0					
20	HQAM	50	0	20.30	20.35	20.37							
20	HQAM	50	24	20.27	20.35	20.30							
20	HQAM	50	50	20.23	20.44	20.32	21	0					
20	HQAM	100	0	20.28	20.22	20.23							
20	HQAM	100	0	19.95	20.14	20.04							
20	HQAM	1	49	19.88	20.02	20.13	21	0					
20	HQAM	1	99	19.92	19.92	19.92							
20	HQAM	50	0	20.33	20.32	20.28							
20	HQAM	50	24	19.90	20.11	20.10	21	0					
20	HQAM	50	50	20.13	20.07	19.99							
20	HQAM	100	0	19.98	20.02	20.00							
20	25SQAM	1	0	19.76	19.84	19.70	20.5	0.5					
20	25SQAM	1	49	19.87	19.80	19.87							
20	25SQAM	1	99	19.64	19.79	19.73							
20	25SQAM	50	0	19.68	19.82	19.68	20.5	0.5					
20	25SQAM	50	24	19.57	19.63	19.51							
20	25SQAM	50	50	19.64	19.75	19.68							
20	25SQAM	100	0	19.75	19.64	19.57							
Channel				42196	42596	43016							
Frequency (MHz)				34173	35000	35423							
15	QPSK	1	0	20.34	20.52	20.48	21	0					
15	QPSK	1	47	20.38	20.54	20.48							
15	QPSK	1	74	20.30	20.65	20.23							
15	QPSK	36	0	19.96	20.30	20.28	21	0					
15	QPSK	36	20	19.98	20.21	20.09							
15	QPSK	36	36	19.98	20.12	20.12							
15	QPSK	75	0	20.01	20.20	20.07	21	0					
15	HQAM	1	0	19.91	20.11	20.21							
15	HQAM	1	47	19.99	19.92	19.94							
15	HQAM	1	74	19.91	20.17	19.98	21	0					
15	HQAM	36	0	20.09	20.24	20.24							
15	HQAM	36	20	20.02	20.30	20.08							
15	HQAM	36	36	20.07	20.41	20.16	21	0					
15	HQAM	75	0	20.68	20.23	20.13							
15	HQAM	1	0	19.94	20.12	19.89							
15	HQAM	1	27	19.72	19.92	20.13	21	0					
15	HQAM	1	74	19.76	19.76	19.72							
15	HQAM	36	0	20.12	20.14	20.17							
15	HQAM	36	20	19.84	20.09	19.85	21	0					
15	HQAM	36	36	19.84	20.02	19.84							
15	HQAM	75	0	19.97	19.93	20.04							
15	25SQAM	1	0	19.68	19.79	19.68	20.5	0.5					
15	25SQAM	1	47	19.65	19.73	19.63							
15	25SQAM	1	74	19.53	19.69	19.62							
15	25SQAM	36	0	19.65	19.72	19.59	20.5	0.5					
15	25SQAM	36	20	19.49	19.62	19.47							
15	25SQAM	36	36	19.59	19.61	19.58							
15	25SQAM	75	0	19.61	19.63	19.51							
Channel				42196	42596	43016							
Frequency (MHz)				34155	35000	35445							
10	QPSK	1	0	20.28	20.52	20.48	21	0					
10	QPSK	1	25	20.49	20.43	20.40							
10	QPSK	1	49	20.14	20.47	20.39							
10	QPSK	25	0	20.05	20.34	20.21	21	0					
10	QPSK	25	12	19.89	20.34	20.11							
10	QPSK	25	25	19.92	20.02	20.12							
10	QPSK	50	0	20.00	20.14	20.06	21	0					
10	HQAM	1	0	19.83	20.09	20.02							
10	HQAM	1	25	20.13	20.00	19.96							
10	HQAM	1	49	19.97	20.21	19.94	21	0					
10	HQAM	25	0	20.28	20.28	20.26							
10	HQAM	25	12	20.24	20.24	20.00							
10	HQAM	25	25	20.12	20.42	20.25	21	0					
10	HQAM	50	0	20.26	20.19	20.02							
10	HQAM	1	0	19.93	20.10	20.06							
10	HQAM	1	25	19.69	19.93	19.91	21	0					
10	HQAM	1	49	19.94	19.78	19.75							
10	HQAM	25	0	20.27	20.16	20.25							
10	HQAM	25	12	19.85	20.03	19.89	21	0					
10	HQAM	25	25	19.87	20.04	19.92							
10	HQAM	50	0	19.96	19.95	19.90							
10	25SQAM	1	0	19.72	19.80	19.56	20.5	0.5					
10	25SQAM	1	25	19.58	19.73	19.64							
10	25SQAM	1	49	19.51	19.70	19.67							
10	25SQAM	25	0	19.59	19.78	19.69	20.5	0.5					
10	25SQAM	25	12	19.47	19.62	19.47							
10	25SQAM	25	25	19.55	19.63	19.57							
10	25SQAM	50	0	19.49	19.62	19.47							
Channel				42196	42596	43016							
Frequency (MHz)				34155	35000	35445							
5	QPSK	1	0	20.41	20.32	20.46	21	0					
5	QPSK	1	12	20.49	20.37	20.50							
5	QPSK	1	24	20.11	20.51	20.45							
5	QPSK	12	0	20.16	20.38	20.23	21	0					
5	QPSK	12	7	19.95	20.29	19.84							
5	QPSK	12	13	19.94	20.05	19.86							
5	QPSK	25	0	19.92	20.20	20.16	21	0					
5	HQAM	1	0	19.89	20.04	20.05							
5	HQAM	1	12	20.13	19.93	19.85							
5	HQAM	1	24	20.00	20.10	19.90	21	0					
5	HQAM	12	0	20.09	20.28	20.27							
5	HQAM	12	7	20.23	20.36	20.13							
5	HQAM	12	13	20.01	20.43	20.25	21	0					
5	HQAM	25	0	20.16	20.10	20.23							
5	HQAM	1	0	19.87	20.06	19.89							
5	HQAM	1	12	19.89	19.88	19.84	21	0					
5	HQAM	1	24	19.87	19.80	19.90							
5	HQAM	12	0	20.28	20.16	20.08							
5	HQAM	12	7	19.87	20.03	19.83	21	0					
5	HQAM	12	13	19.95	20.07	19.77							
5	HQAM	25	0	19.97	19.91	19.98							
5	25SQAM	1	0	19.64	19.78	19.56	20.5	0.5					
5	25SQAM	1	24	19.60	19.71	19.59							
5	25SQAM	1	49	19.59	19.76	19.68							
5	25SQAM	12	7	19.49	19.49	19.47	20.5	0.5					
5	25SQAM	12	13	19.59	19.60	19.45							
5	25SQAM	25	0	19.49	19.50	19.45							



Band 42 FCC Part27Q Main PA Ant6 DSI4													
BW (MHz)	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)				42180	42680	43080							
20	QPSK	1	0	17.84	17.95	17.86	18.5	0					
20	QPSK	1	49	17.87	17.78	17.62							
20	QPSK	1	98	17.74	17.82	17.74							
20	QPSK	50	0	17.83	17.95	17.82	18.5	0					
20	QPSK	50	24	17.85	17.88	17.76							
20	QPSK	50	50	17.87	17.74	17.84							
20	QPSK	100	0	17.82	17.82	17.32	18.5	0					
20	HQAM	1	0	17.88	17.82	17.38							
20	HQAM	1	49	17.28	17.45	17.41							
20	HQAM	1	99	17.25	17.41	17.28	18.5	0					
20	HQAM	50	24	17.88	17.84	17.34							
20	HQAM	50	50	17.82	17.41	17.42							
20	HQAM	50	50	17.89	17.80	17.28	18.5	0					
20	HQAM	100	0	17.83	17.81	17.38							
20	HQAM	1	0	17.27	17.23	17.27							
20	HQAM	1	49	17.28	17.23	17.30	18.5	0					
20	HQAM	1	99	17.21	17.28	17.36							
20	HQAM	50	24	17.28	17.46	17.44	18.5	0					
20	HQAM	50	50	17.23	17.43	17.47							
20	HQAM	100	0	17.32	17.54	17.46							
20	25SQAM	1	0	17.30	17.30	17.38	18.5	0					
20	25SQAM	1	49	17.28	17.30	17.30							
20	25SQAM	1	99	17.12	17.32	17.20							
20	25SQAM	50	24	17.28	17.24	17.24	18.5	0					
20	25SQAM	50	50	16.96	17.27	17.09							
20	25SQAM	50	50	17.29	17.19	17.05							
20	25SQAM	100	0	17.23	17.28	17.15							
Channel													
Frequency (MHz)				42166	42686	43016	Tune-up limit (dBm)	MPR (dB)					
15	QPSK	1	0	17.80	17.80	17.64	18.5	0					
15	QPSK	1	47	17.77	17.66	17.61							
15	QPSK	1	74	17.65	17.66	17.48							
15	QPSK	36	0	17.81	17.48	17.40	18.5	0					
15	QPSK	36	20	17.60	17.41	17.18							
15	QPSK	36	36	17.28	17.41	17.28							
15	QPSK	75	0	17.38	17.64	17.18	18.5	0					
15	HQAM	1	0	17.26	17.47	17.13							
15	HQAM	1	37	17.27	17.41	17.41							
15	HQAM	1	74	17.07	17.38	17.28	18.5	0					
15	HQAM	36	0	17.21	17.49	17.39							
15	HQAM	36	36	17.28	17.28	17.38							
15	HQAM	36	39	17.39	17.62	17.13	18.5	0					
15	HQAM	75	0	17.33	17.52	17.30							
15	HQAM	1	0	17.29	17.15	17.28							
15	HQAM	1	27	17.18	17.04	17.23	18.5	0					
15	HQAM	1	74	16.92	17.23	17.09							
15	HQAM	36	0	17.47	17.65	17.40							
15	HQAM	36	20	17.15	17.33	17.43	18.5	0					
15	HQAM	36	36	17.02	17.44	17.45							
15	HQAM	75	0	17.14	17.44	17.40							
15	25SQAM	1	0	17.09	17.31	17.17	18.5	0					
15	25SQAM	1	37	16.95	17.24	17.40							
15	25SQAM	1	74	16.95	17.22	17.12							
15	25SQAM	36	0	17.21	17.33	17.24	18.5	0					
15	25SQAM	36	20	16.88	17.15	17.07							
15	25SQAM	36	39	17.30	17.14	16.84							
15	25SQAM	75	0	17.12	17.05	17.14							
Channel													
Frequency (MHz)				42140	42690	43040	Tune-up limit (dBm)	MPR (dB)					
10	QPSK	1	0	17.81	17.81	17.64	18.5	0					
10	QPSK	1	25	17.77	17.77	17.64							
10	QPSK	1	49	17.73	17.64	17.68							
10	QPSK	50	0	17.81	17.88	17.81	18.5	0					
10	QPSK	25	12	17.55	17.48	17.28							
10	QPSK	25	25	17.48	17.38	17.29							
10	QPSK	50	0	17.87	17.44	17.28	18.5	0					
10	HQAM	1	0	17.19	17.34	17.24							
10	HQAM	1	25	17.28	17.41	17.29							
10	HQAM	1	49	17.20	17.27	17.28	18.5	0					
10	HQAM	25	0	17.27	17.59	17.47							
10	HQAM	25	12	17.28	17.28	17.29							
10	HQAM	25	25	17.29	17.61	17.21	18.5	0					
10	HQAM	50	0	17.27	17.41	17.34							
10	HQAM	1	0	17.14	17.14	17.28							
10	HQAM	1	25	17.11	17.20	17.23	18.5	0					
10	HQAM	1	49	16.85	17.28	17.03							
10	HQAM	25	0	17.48	17.48	17.37							
10	HQAM	25	12	17.15	17.40	17.46	18.5	0					
10	HQAM	25	25	17.33	17.55	17.46							
10	HQAM	50	0	17.18	17.32	17.38							
10	25SQAM	1	0	17.21	17.26	17.18	18.5	0					
10	25SQAM	1	25	17.26	17.06	17.27							
10	25SQAM	1	49	17.01	17.22	17.13							
10	25SQAM	25	0	17.31	17.22	17.21	18.5	0					
10	25SQAM	25	12	16.88	17.19	17.06							
10	25SQAM	25	25	17.09	17.04	17.01							
10	25SQAM	50	0	17.03	17.17	17.16							
Channel													
Frequency (MHz)				42116	42696	43066	Tune-up limit (dBm)	MPR (dB)					
5	QPSK	1	0	17.67	17.65	17.60	18.5	0					
5	QPSK	1	12	17.62	17.65	17.54							
5	QPSK	1	24	17.58	17.65	17.67							
5	QPSK	12	0	17.63	17.56	17.44	18.5	0					
5	QPSK	12	7	17.41	17.55	17.30							
5	QPSK	12	13	17.48	17.39	17.38							
5	QPSK	26	0	17.38	17.62	17.24	18.5	0					
5	HQAM	1	0	17.33	17.33	17.26							
5	HQAM	1	12	17.10	17.38	17.32							
5	HQAM	1	24	17.14	17.38	17.21	18.5	0					
5	HQAM	12	0	17.41	17.57	17.33							
5	HQAM	12	7	17.51	17.31	17.22							
5	HQAM	12	13	17.33	17.47	17.10	18.5	0					
5	HQAM	25	0	17.29	17.51	17.37							
5	HQAM	1	0	17.25	17.35	17.27							
5	HQAM	1	12	17.10	17.15	17.22	18.5	0					
5	HQAM	1	24	16.85	17.21	16.84							
5	HQAM	12	0	17.60	17.61	17.35							
5	HQAM	12	7	17.26	17.47	17.26	18.5	0					
5	HQAM	12	13	17.27	17.63	17.41							
5	HQAM	25	0	17.19	17.49	17.46							
5	25SQAM	1	0	17.16	17.20	17.31	18.5	0					
5	25SQAM	1	12	17.38	17.19	17.21							
5	25SQAM	1	24	16.91	17.16	17.18	18.5	0					
5	25SQAM	12	0	17.27	17.20	17.28							
5	25SQAM	12	7	16.87	17.20	16.93							
5	25SQAM	12	13	17.24	17.10	16.99	18.5	0					
5	25SQAM	25	0	17.17	17.17	17.17							
5	25SQAM	25	12	16.94	17.14	16.94							



Band 42 FCC Part27Q Mian PA Ant7 DSI4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				42190	42590	42990				
Frequency (MHz)				3445	3500	3545				
20	QPSK	50	0	19.53	19.55	19.44	20.5	0		
20	QPSK	1	49	19.28	19.39	19.42				
20	QPSK	1	49	19.42	19.41	19.31				
20	QPSK	50	0	19.51	19.55	19.47	20.5	0		
20	QPSK	50	24	19.34	19.43	19.44				
20	QPSK	50	50	19.33	19.42	19.42				
20	QPSK	100	0	19.50	19.53	19.51	20.5	0		
20	HQAM	1	0	19.35	19.47	19.36				
20	HQAM	1	49	19.39	19.39	19.36				
20	HQAM	1	99	19.48	19.52	19.53	20.5	0		
20	HQAM	50	0	19.37	19.46	19.44				
20	HQAM	50	24	19.35	19.42	19.41				
20	HQAM	50	50	19.48	19.50	19.54	20.5	0		
20	HQAM	100	0	19.33	19.47	19.54				
20	HQAM	1	0	19.35	19.35	19.31				
20	HQAM	1	49	19.48	19.61	19.45	20.5	0		
20	HQAM	1	99	19.33	19.40	19.50				
20	HQAM	50	0	19.35	19.39	19.35				
20	HQAM	50	24	19.47	19.60	19.49	20.5	0		
20	HQAM	50	50	19.29	19.41	19.43				
20	HQAM	100	0	19.33	19.43	19.37				
20	25SQAM	1	0	18.24	18.36	18.39	19.5	1		
20	25SQAM	1	49	18.27	18.30	18.37				
20	25SQAM	1	99	18.24	18.30	18.25				
20	25SQAM	50	0	18.28	18.32	18.36	19.5	1		
20	25SQAM	50	24	18.09	18.22	18.16				
20	25SQAM	50	50	18.06	18.19	18.10				
20	25SQAM	100	0	18.09	18.20	18.14				
Channel				42190	42590	43015	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3447.5	3500	3547.5				
15	QPSK	1	0	19.53	19.53	19.43	20.5	0		
15	QPSK	1	47	19.27	19.39	19.33				
15	QPSK	1	74	19.31	19.40	19.30				
15	QPSK	36	0	19.58	19.59	19.42	20.5	0		
15	QPSK	36	20	19.36	19.47	19.42				
15	QPSK	36	36	19.38	19.48	19.40				
15	QPSK	75	0	19.58	19.55	19.46	20.5	0		
15	HQAM	1	0	19.38	19.42	19.42				
15	HQAM	1	37	19.40	19.45	19.40				
15	HQAM	1	74	19.59	19.50	19.50	20.5	0		
15	HQAM	36	0	19.32	19.44	19.36				
15	HQAM	36	20	19.39	19.45	19.40				
15	HQAM	36	36	19.04	19.49	19.52	20.5	0		
15	HQAM	75	0	19.32	19.46	19.43				
15	HQAM	1	0	19.30	19.40	19.41				
15	HQAM	1	27	19.49	19.57	19.42	20.5	0		
15	HQAM	1	74	19.33	19.46	19.39				
15	HQAM	36	0	19.34	19.39	19.37				
15	HQAM	36	20	18.96	19.50	19.47	20.5	0		
15	HQAM	36	36	19.07	19.48	19.48				
15	HQAM	75	0	19.35	19.42	19.35				
15	25SQAM	1	0	18.17	18.18	18.07	19.5	1		
15	25SQAM	1	47	18.13	18.16	18.15				
15	25SQAM	1	74	18.13	18.16	18.17				
15	25SQAM	36	0	18.20	18.27	18.18	19.5	1		
15	25SQAM	36	20	17.98	18.10	18.02				
15	25SQAM	36	36	17.98	18.13	18.07				
15	25SQAM	75	0	18.13	18.10	18.00				
Channel				42190	42590	43015	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3445	3500	3545				
10	QPSK	1	0	19.48	19.48	19.48	20.5	0		
10	QPSK	1	25	19.26	19.43	19.36				
10	QPSK	1	49	19.41	19.41	19.34				
10	QPSK	25	0	19.34	19.57	19.44	20.5	0		
10	QPSK	25	12	19.30	19.42	19.33				
10	QPSK	25	25	19.42	19.40	19.38				
10	QPSK	50	0	19.47	19.45	19.49	20.5	0		
10	HQAM	1	0	19.32	19.43	19.36				
10	HQAM	1	25	19.32	19.41	19.34				
10	HQAM	1	49	19.37	19.38	19.47	20.5	0		
10	HQAM	25	0	19.27	19.48	19.43				
10	HQAM	25	12	19.32	19.42	19.33				
10	HQAM	25	25	19.49	19.53	19.44	20.5	0		
10	HQAM	50	0	19.31	19.40	19.43				
10	HQAM	1	0	19.38	19.40	19.38				
10	HQAM	1	25	19.59	19.51	19.49	20.5	0		
10	HQAM	1	49	19.31	19.50	19.44				
10	HQAM	25	0	19.35	19.45	19.33				
10	HQAM	25	12	19.37	19.55	19.50	20.5	0		
10	HQAM	25	25	19.32	19.45	19.36				
10	HQAM	50	0	19.32	19.47	19.32				
10	25SQAM	1	0	18.16	18.30	18.20	19.5	1		
10	25SQAM	1	25	18.21	18.16	18.09				
10	25SQAM	1	49	18.20	18.15	18.13				
10	25SQAM	25	0	18.16	18.19	18.18	19.5	1		
10	25SQAM	25	12	18.04	18.12	18.07				
10	25SQAM	25	25	18.07	18.15	18.00				
10	25SQAM	50	0	17.97	18.16	18.09				
Channel				42190	42590	43015	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3445	3500	3545				
5	QPSK	1	0	19.54	19.50	19.53	20.5	0		
5	QPSK	1	12	19.27	19.40	19.32				
5	QPSK	1	24	19.40	19.44	19.34				
5	QPSK	12	0	19.51	19.60	19.52	20.5	0		
5	QPSK	12	7	19.31	19.39	19.32				
5	QPSK	12	13	19.33	19.40	19.34				
5	QPSK	26	0	19.28	19.50	19.46	20.5	0		
5	HQAM	1	0	19.34	19.40	19.33				
5	HQAM	1	12	19.36	19.38	19.32				
5	HQAM	1	24	19.31	19.54	19.49	20.5	0		
5	HQAM	12	0	19.32	19.46	19.38				
5	HQAM	12	7	19.36	19.44	19.36				
5	HQAM	12	13	19.36	19.54	19.45	20.5	0		
5	HQAM	25	0	19.32	19.42	19.34				
5	HQAM	1	0	19.33	19.37	19.39				
5	HQAM	1	12	19.49	19.50	19.44	20.5	0		
5	HQAM	1	24	19.30	19.49	19.44				
5	HQAM	12	0	19.38	19.41	19.31				
5	HQAM	12	7	19.31	19.50	19.44	20.5	0		
5	HQAM	12	13	19.31	19.47	19.40				
5	HQAM	26	0	19.32	19.48	19.39				
5	25SQAM	1	0	18						

DSI 4 Power for WWAN EN-DC Main PA

Band 38 Main PA Ant4 DSI4 ENDC												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch [F1/F2]	Power Mid Ch [F1/F2]	Power High Ch [F1/F2]	Tune-up limit (dBm)	MPE (dB)				
Channel				37600	38000	38400						
20	QPSK	1	0	20.06	20.05	20.06	20.2	0				
20	QPSK	1	49	19.93	20.03	20.05						
20	QPSK	1	99	19.81	20.08	19.94						
20	QPSK	50	0	19.86	20.05	19.95						
20	QPSK	50	24	19.92	19.82	19.83	20.2	0				
20	QPSK	50	50	19.85	19.84	19.87						
20	QPSK	100	0	19.84	20.01	19.83						
20	16QAM	1	49	19.82	19.82	19.73						
20	16QAM	1	99	19.90	19.79	19.71	20.2	0				
20	16QAM	50	0	19.87	19.85	19.83						
20	16QAM	50	24	19.89	20.00	19.91						
20	16QAM	50	50	19.97	20.07	20.00						
20	16QAM	100	0	19.89	20.08	19.94	20.2	0				
20	64QAM	1	0	20.00	20.01	19.94						
20	64QAM	1	49	19.85	19.87	19.87						
20	64QAM	1	99	19.92	19.82	19.83		20.2	0			
20	64QAM	50	0	19.90	19.85	19.88						
20	64QAM	50	24	19.92	19.99	19.91						
20	64QAM	50	50	20.01	19.96	19.96						
20	64QAM	100	0	19.86	19.81	19.85	20.2	0				
20	256QAM	1	0	19.87	19.84	19.78						
20	256QAM	1	49	19.85	19.90	19.75						
20	256QAM	1	99	19.92	20.00	19.86		20.2	0			
20	256QAM	50	0	19.86	19.86	20.03						
20	256QAM	50	24	19.91	19.88	19.88						
20	256QAM	50	50	20.02	19.88	19.89		20.2	0			
20	256QAM	100	0	19.82	20.02	19.84						
Channel				37620 <th>38020<th>38420</th><td></td><td></td><td></td></th>	38020 <th>38420</th> <td></td> <td></td> <td></td>	38420						
15	QPSK	1	0	19.83	19.85	19.82				20.2	0	
15	QPSK	1	37	19.83	19.99	19.84						
15	QPSK	1	74	19.86	19.99	19.80						
15	QPSK	36	0	19.74	19.81	19.70	20.2	0				
15	QPSK	36	36	19.89	19.83	19.75						
15	QPSK	36	73	19.75	19.85	19.75						
15	16QAM	1	0	19.98	19.90	19.73	20.2	0				
15	16QAM	1	37	19.79	19.73	19.68						
15	16QAM	1	74	19.83	19.75	19.59						
15	16QAM	36	0	19.77	19.82	19.71		20.2	0			
15	16QAM	36	36	19.82	19.87	19.87						
15	16QAM	36	73	19.85	19.93	19.86						
15	16QAM	75	0	19.81	20.00	19.74		20.2	0			
15	64QAM	1	0	19.94	19.98	19.87						
15	64QAM	1	37	19.77	19.78	19.61						
15	64QAM	1	74	19.82	19.75	19.79		20.2	0			
15	64QAM	36	0	19.86	19.79	19.74						
15	64QAM	36	36	19.85	19.85	19.78						
15	64QAM	36	73	19.85	19.87	19.86		20.2	0			
15	64QAM	75	0	19.93	19.69	19.82						
15	256QAM	1	0	19.88	19.90	19.74		20.2	0			
15	256QAM	1	37	19.89	19.84	19.89						
15	256QAM	1	74	19.80	19.96	19.77						
15	256QAM	36	0	19.81	19.89	19.75		20.2	0			
15	256QAM	36	36	19.82	19.80	19.75						
15	256QAM	36	73	19.84	19.80	19.77						
15	256QAM	75	0	19.76	19.68	19.79						
Channel				37600 <th>38000<th>38400</th><td></td><td></td><td></td></th>	38000 <th>38400</th> <td></td> <td></td> <td></td>	38400						
10	QPSK	1	0	20.01	20.04	20.05	20.2	0				
10	QPSK	1	25	19.81	20.05	19.75						
10	QPSK	1	49	19.86	20.03	19.75						
10	QPSK	25	0	19.81	19.90	19.89		20.2	0			
10	QPSK	25	12	19.84	19.77	19.68						
10	QPSK	25	25	19.91	19.84	19.79						
10	QPSK	50	0	19.72	19.80	19.75	20.2	0				
10	16QAM	1	0	19.92	19.87	19.71						
10	16QAM	1	25	19.76	19.78	19.63						
10	16QAM	1	49	19.80	19.68	19.61		20.2	0			
10	16QAM	25	0	19.75	19.90	19.76						
10	16QAM	25	12	19.84	20.01	19.82						
10	16QAM	25	25	19.89	19.87	19.90		20.2	0			
10	16QAM	50	0	19.82	20.03	19.81						
10	64QAM	1	0	19.90	19.94	19.88						
10	64QAM	1	25	19.73	19.77	19.69	20.2	0				
10	64QAM	1	49	19.81	19.72	19.76						
10	64QAM	25	0	19.80	19.75	19.77						
10	64QAM	25	12	19.81	19.90	19.79		20.2	0			
10	64QAM	25	25	19.88	19.86	19.87						
10	64QAM	50	0	19.83	19.73	19.82						
10	256QAM	1	0	20.01	20.05	20.06	20.2	0				
10	256QAM	1	25	19.84	20.01	19.84						
10	256QAM	1	49	19.85	19.90	19.87						
10	256QAM	25	0	19.86	19.84	19.97		20.2	0			
10	256QAM	25	12	19.86	19.76	19.73						
10	256QAM	25	25	19.97	19.83	19.79						
10	256QAM	50	0	19.78	19.90	19.80						
Channel				25720 <td>25900</td> <td>26170.5</td> <td></td> <td></td> <td></td>	25900	26170.5						
5	QPSK	1	0	19.92	20.04	20.08	20.2	0				
5	QPSK	1	12	19.82	20.03	19.77						
5	QPSK	1	24	19.84	19.97	19.71						
5	QPSK	12	0	19.74	19.85	19.82		20.2	0			
5	QPSK	12	7	19.79	19.78	19.74						
5	QPSK	12	13	19.87	19.87	19.75						
5	QPSK	25	0	19.73	19.97	19.76	20.2	0				
5	16QAM	1	0	19.91	19.93	19.71						
5	16QAM	1	12	19.71	19.70	19.58						
5	16QAM	1	24	19.87	19.71	19.67		20.2	0			
5	16QAM	12	0	19.74	19.80	19.71						
5	16QAM	12	7	19.86	19.83	19.75						
5	16QAM	12	13	19.85	19.99	19.85		20.2	0			
5	16QAM	25	0	19.78	20.04	19.71						
5	64QAM	1	0	19.73	19.81	19.91						
5	64QAM	1	24	19.89	19.70	19.71		20.2	0			
5	64QAM	12	0	19.83	19.83	19.75						
5	64QAM	12	7	19.84	19.88	19.84						
5	64QAM	12	13	19.89	19.83	19.81						
5	256QAM	1	0	19.92	19.82	19.82	20.2	0				
5	256QAM	1	12	19.84	20.07	19.86						
5	256QAM	1	24	19.80	19.89	19.74						
5	256QAM	12	0	19.88	19.92	19.90		20.2	0			
5	256QAM	12	7	19.88	19.80	19.77						
5	256QAM	12	13	19.97	19.82	19.75						
5	256QAM	25	0	19.76	19.90	19.78						

Band 41 Main PA Ant4 DSI4 ENDC									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch [F1/F2]	Power Low Mod Ch [F1/F2]	Power Mid Mod Ch [F1/F2]	Power High Mod Ch [F1/F2]	Power High Ch [F1/F2]	
Channel									
Frequency (MHz)	Channel			99760	24015	40620	41055	41400	
20	QPSK	1	0	19.90	20.13	20.13	19.98	19.88	20.2
20	QPSK	1	49	19.82	20.11	20.04	19.89	19.74	
20	QPSK	1	99	19.72	20.03	19.97	19.81	19.82	
20	QPSK	50	0	20.07	19.83	20.11	19.80	20.09	
20	QPSK	50	24	19.96	19.83	19.82	19.70	19.81	20.2
20	QPSK	50	50	19.86	19.84	19.85	19.82	19.84	
20	QPSK	100	0	19.90	19.92	20.06	19.88	19.94	
20	16QAM	1	0	19.80	20.10	20.04	19.83	19.85	
20	16QAM	1	49	19.77	20.02	20.02	19.82	19.74	20.2
20	16QAM	1	99	20.02	20.08	20.02	19.95	19.87	
20	16QAM	50	0	19.89	19.80	20.00	19.80	19.91	
20	16QAM	50	24	19.87	19.74	19.84	19.74	19.83	
20	16QAM	50	50	19.80	19.94	19.90	19.96	19.76	20.2
20	16QAM	100	0	19.83	19.71	19.91	19.89	19.74	
20	64QAM	1	0	19.80	19.47	19.51	19.55	19.45	
20	64QAM	1	49	19.52	19.48	19.60	19.41	19.55	
20	64QAM	50	0	19.83	20.06	19.98	19.90	19.75	20.2
20	64QAM	50	24	19.86	19.78	19.89	19.77	19.89	
20	64QAM	50	50	19.82	19.91	19.94	19.78	19.73	
20	64QAM	100	0	19.85	19.85	19.92	19.90	19.70	
20	256QAM	1	0	19.83	20.04	20.04	19.84	19.80	20.2
20	256QAM	1	49	19.77	20.06	19.92	19.77	19.77	
20	256QAM	1	99	19.79	20.03	19.92	19.82	19.95	
20	256QAM	50	0	19.88	19.92	19.85	19.77	19.82	
20	256QAM	50	24	19.82	19.80	19.82	19.87	19.87	20.2
20	256QAM	50	50	19.82	19.91	19.94	19.78	19.73	
20	256QAM	100	0	19.87	19.89	19.91	19.88	19.88	
20	256QAM	100	0	19.87	19.89	19.91	19.88	19.88	
Channel									
Frequency (MHz)	Channel			99726	40173	40600	41008	41516	
15	QPSK	1	0	19.82	20.08	20.04	19.95	19.77	20.2
15	QPSK	1	37	19.82	20.02	20.01	19.84	19.78	
15	QPSK	1	74	19.83	19.95	19.99	19.80	19.81	
15	QPSK	50	0	19.88	19.75	20.02	19.87	20.01	
15	QPSK	50	20	19.89	19.76	19.83	19.65	19.76	20.2
15	QPSK	50	40	19.79	19.69	19.82	19.73	19.66	
15	QPSK	100	0	19.86	19.78	19.92	19.82	19.86	
15	16QAM	1	0	19.83	19.95	19.89	19.90	20.06	
15	16QAM	1	37	19.84	19.86	19.82	19.81	19.82	20.2
15	16QAM	1	74	19.94	19.98	19.98	19.84	19.72	
15	16QAM	50	0	19.80	19.72	19.86	19.86	19.79	
15	16QAM	50	20	19.83	19.70	19.83	19.67	19.85	
15	16QAM	50	39	19.75	19.80	19.93	19.87	19.67	20.2
15	16QAM	75	0	19.69	19.82	19.79	19.86	19.64	
15	16QAM	100	0	19.80	19.80	19.80	19.80	19.76	
15	64QAM	1	37	19.84	19.81	19.96	19.92	19.91	
15	64QAM	1	74	19.27	19.46	19.53	19.52	19.13	20.2
15	64QAM	50	0	19.68	19.68	19.68	19.68	19.62	
15	64QAM	50	20	19.75	19.67	19.82	19.69	19.78	
15	64QAM	50	39	19.75	19.81	19.93	20.00	19.89	
15	256QAM	1	0	19.74	19.76	19.80	19.80	19.60	20.2
15	256QAM	1	37	19.77	19.95	20.00	20.04	19.78	
15	256QAM	1	74	19.69	19.94	19.92	19.69	19.84	
15	256QAM	50	0	19.85	19.82	19.85	19.87	19.87	
15	256QAM	50	20	19.87	19.77	19.79	19.65	19.80	20.2
15	256QAM	50	39	19.74	19.84	19.81	19.69	19.83	
15	256QAM	75	0	19.64	19.84	19.82	19.81	19.74	
15	256QAM	100	0	19.79	19.80	19.81	19.81	19.74	
Channel									
Frequency (MHz)	Channel			99760	40160	40620	41008	41540	
10	QPSK	5	0	19.73	20.12	20.12	19.94	19.81	20.0
10	QPSK	1	26	19.88	20.04	20.04	19.86	19.60	
10	QPSK	1	49	19.67	19.96	19.93	19.73	19.76	
10	QPSK	1	74	19.84	19.77	19.77	19.64	19.64	
10	QPSK	50	12	19.84	19.79	19.80	19.65	19.76	20.0
10	QPSK	25	25	19.76	19.72	19.76	19.75	19.67	
10	QPSK	50	0	19.82	19.86	19.87	19.81	19.83	
10	16QAM	1	0	19.68	19.95	19.98	19.87	20.06	
10	16QAM	1	26	19.76	19.85	19.91	20.02	19.88	20.0
10	16QAM	1	49	19.62	19.90	19.87	19.70	19.75	
10	16QAM	25	25	19.62	19.70	19.73	19.67	19.69	
10	16QAM	50	12	19.53	19.61	19.77	19.68	19.61	
10	16QAM	50	25	19.68	19.67	19.67	19.67	19.69	20.0
10	16QAM	50	50	19.76	19.60	19.76	19.77	19.69	
10	64QAM	1	0	19.48	19.35	19.38	19.52	19.39	
10	64QAM	1	25	19.41	19.33	19.36	19.32	19.45	
10	64QAM	25	12	19.23	19.45	19.50	19.23	19.21	20.2
10	64QAM	25	0	19.75	19.85	20.02	19.70	19.81	
10	64QAM	25	12	19.76	19.67	19.76	19.60	19.82	
10	64QAM	50	0	19.81	19.76	19.76	19.60	19.80	
10	256QAM	1	0	19.76	20.00	20.07	19.65	19.70	20.0
10	256QAM	1	25	19.54	19.84	19.84	19.66	19.66	
10	256QAM	1	49	19.70	19.92	19.84	19.68	19.91	
10	256QAM	25	0	19.91	19.77	20.04	19.74	20.01	
10	256QAM	25	12	19.85	19.70	19.76	19.60	19.80	20.0
10	256QAM	25	25	19.72	19.85	19.73	19.73	19.66	
10	256QAM	50	0	19.77	19.76	19.98	19.79	19.73	
10	256QAM	50	0	19.77	19.76	19.98	19.79	19.73	
Channel									
Frequency (MHz)	Channel			2466.5	2545.8	2593	2640.30	2697.5	
5	QPSK	1	0	19.85	20.03	19.99	19.80	19.74	20.0
5	QPSK	1	10	19.80	19.78	19.75	19.65	19.66	
5	QPSK	1	24	19.65	19.89	19.92	19.77	19.84	
5	QPSK	12	0	20.01	19.80	20.05	19.60	20.03	
5	QPSK	12	74	19.88	19.76	19.89	19.68	19.74	20.2
5	QPSK	10	0	19.80	19.72	19.73	19.67	19.68	
5	QPSK	50	0	19.75	19.82	19.92	19.81	19.80	
5	16QAM	1	0	19.68	19.90	19.93	19.81	20.07	
5	16QAM	1	10	19.65	19.87	19.90	19.67	19.67	20.2
5	16QAM	1	24	19.56	19.96	20.00	19.88	19.80	
5	16QAM	12	0	19.78	19.69	19.93	19.75	19.66	
5	16QAM	12	74	19.87	19.62	19.87	19.67	19.87	
5	16QAM	12	13	19.68	19.89	19.92	19.90	19.69	20.2
5	16QAM	25	0	19.77	19.65	19.81	19.83	19.69	
5	16QAM	25	12	19.63	19.39	19.47	19.47	19.41	
5	64QAM	1	12	19.43	19.44	19.53	19.38	19.41	
5	64QAM	1	24	19.17	19.38	19.55	19.43	19.14	20.2
5	64QAM	12	0	19.75	19.79	19.78	19.62	19.78	
5	64QAM	12	13	19.76	19.80	19.91	19.87	19.85	
5	64QAM	25	0	19.75	19.82	19.90	19.82	19.68	
5	256QAM	1	0	19.75	19.96	20.00	19.95	19.87	20.0
5	256QAM	1	12	19.99	19.75	20.12	19.91	20.04	
5	256QAM	12	0	19.77	19.89	19.92	19.78	19.82	
5	256QAM	12	0	19.82	19.87	20.04	19.94	19.66	
5	256QAM	12	7	19.96	19.78	19.80	19.81	19.83	20.2
5	256QAM	25	12	19.77	19.84	19.93	19.85	19.65	
5	256QAM	25	0	19.82	19.76	19.89	19.70	19.80	
5	256QAM	25	0	19.82	19.76	19.89	19.70	19.80	

Default Power for WWAN Other PA

Band 5 Ant0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 20450	Power Middle Ch. / Freq. 20525	Power High Ch. / Freq. 20600	Tune-up limit (dBm)	MPR (dB)		
Channel				829	838.5	844				
Frequency (MHz)				829	838.5	844				
10	QPSK	1	0	24.82	24.85	24.77	25.5	0		
10	QPSK	1	25	24.74	24.73	24.69				
10	QPSK	1	49	24.68	24.68	24.61				
10	QPSK	25	0	23.64	23.75	23.66	24.5	1		
10	QPSK	25	12	23.64	23.65	23.64				
10	QPSK	25	25	23.67	23.58	23.65				
10	QPSK	50	0	23.59	23.72	23.62	24.5	1		
10	16QAM	1	0	23.73	23.86	23.73				
10	16QAM	1	25	23.74	23.80	23.71				
10	16QAM	1	49	23.70	23.76	23.67	23.5	2		
10	16QAM	25	0	22.79	22.91	22.78				
10	16QAM	25	12	22.70	22.77	22.71				
10	16QAM	25	25	22.66	22.71	22.66	23.5	2		
10	16QAM	50	0	22.69	22.80	22.70				
10	64QAM	1	0	22.74	22.84	22.71				
10	64QAM	1	25	22.61	22.76	22.70	23.5	2		
10	64QAM	1	49	22.59	22.69	22.62				
10	64QAM	25	0	21.79	21.89	21.79				
10	64QAM	25	12	21.65	21.76	21.69	22.5	3		
10	64QAM	25	25	21.71	21.82	21.72				
10	64QAM	50	0	21.68	21.81	21.73				
10	256QAM	1	0	19.52	19.65	19.58	20.5	5		
10	256QAM	1	25	19.42	19.56	19.47				
10	256QAM	1	49	19.42	19.52	19.41				
10	256QAM	25	0	19.54	19.60	19.52	20.5	5		
10	256QAM	25	12	19.44	19.54	19.39				
10	256QAM	25	25	19.36	19.47	19.33				
10	256QAM	50	0	19.45	19.52	19.37				
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	0	24.73	24.77	24.64	25.5	0		
5	QPSK	1	12	24.61	24.66	24.57				
5	QPSK	1	24	24.61	24.54	24.54				
5	QPSK	12	0	23.57	23.67	23.56	24.5	1		
5	QPSK	12	7	23.58	23.54	23.55				
5	QPSK	12	13	23.54	23.43	23.58				
5	QPSK	25	0	23.46	23.58	23.55	24.5	1		
5	16QAM	1	0	23.64	23.80	23.67				
5	16QAM	1	12	23.62	23.73	23.60				
5	16QAM	1	24	23.62	23.63	23.58	23.5	2		
5	16QAM	12	0	22.67	22.82	22.65				
5	16QAM	12	7	22.63	22.63	22.60				
5	16QAM	12	13	22.54	22.82	22.57	23.5	2		
5	16QAM	25	0	22.63	22.69	22.60				
5	64QAM	1	0	22.68	22.74	22.63				
5	64QAM	1	12	22.51	22.64	22.58	23.5	2		
5	64QAM	1	24	22.47	22.59	22.50				
5	64QAM	12	0	21.67	21.77	21.71				
5	64QAM	12	7	21.58	21.62	21.60	22.5	3		
5	64QAM	12	13	21.66	21.68	21.61				
5	64QAM	25	0	21.60	21.75	21.61				
5	256QAM	1	0	19.45	19.56	19.44	20.5	5		
5	256QAM	1	12	19.34	19.49	19.38				
5	256QAM	1	24	19.33	19.44	19.29				
5	256QAM	12	0	19.46	19.45	19.41	20.5	5		
5	256QAM	12	7	19.33	19.45	19.33				
5	256QAM	12	13	19.27	19.40	19.20				
5	256QAM	25	0	19.32	19.41	19.28				
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	24.77	24.77	24.65	25.5	0		
3	QPSK	1	8	24.65	24.63	24.55				
3	QPSK	1	14	24.54	24.54	24.52				
3	QPSK	8	0	23.50	23.68	23.55	24.5	1		
3	QPSK	8	4	23.50	23.60	23.59				
3	QPSK	8	7	23.56	23.52	23.52				
3	QPSK	15	0	23.51	23.57	23.48	24.5	1		
3	16QAM	1	0	23.66	23.81	23.59				
3	16QAM	1	8	23.60	23.67	23.60				
3	16QAM	1	14	23.62	23.62	23.60	23.5	2		
3	16QAM	8	0	22.71	22.85	22.72				
3	16QAM	8	4	22.56	22.70	22.65				
3	16QAM	8	7	22.55	22.57	22.53	23.5	2		
3	16QAM	15	0	22.58	22.67	22.65				
3	64QAM	1	0	22.60	22.78	22.61				
3	64QAM	1	8	22.52	22.70	22.59	23.5	2		
3	64QAM	1	14	22.45	22.63	22.50				
3	64QAM	8	0	21.68	21.80	21.67				
3	64QAM	8	4	21.51	21.64	21.57	22.5	3		
3	64QAM	8	7	21.57	21.68	21.61				
3	64QAM	15	0	21.60	21.70	21.65				
3	256QAM	1	0	19.42	19.50	19.52	20.5	5		
3	256QAM	1	8	19.32	19.44	19.33				
3	256QAM	1	14	19.35	19.45	19.36				
3	256QAM	8	0	19.47	19.51	19.44	20.5	5		
3	256QAM	8	4	19.39	19.47	19.33				
3	256QAM	8	7	19.27	19.38	19.23				
3	256QAM	15	0	19.34	19.41	19.24				
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				824.7	836.5	848.3				
1.4	QPSK	1	0	24.74	24.78	24.64	25.5	0		
1.4	QPSK	1	3	24.63	24.67	24.54				
1.4	QPSK	1	5	24.61	24.55	24.50				
1.4	QPSK	3	0	23.56	23.68	23.59	24.5	1		
1.4	QPSK	3	1	23.51	23.57	23.52				
1.4	QPSK	3	3	23.55	23.51	23.59				
1.4	QPSK	6	0	23.46	23.62	23.49	24.5	1		
1.4	16QAM	1	0	23.61	23.79	23.58				
1.4	16QAM	1	3	23.66	23.69	23.62				
1.4	16QAM	1	5	23.60	23.65	23.56	24.5	1		
1.4	16QAM	3	0	23.59	23.75	23.64				
1.4	16QAM	3	1	23.64	23.67	23.63				
1.4	16QAM	3	3	23.55	23.63	23.52	23.5	2		
1.4	16QAM	6	0	22.74	22.81	22.69				
1.4	64QAM	1	0	22.63	22.69	22.66				
1.4	64QAM	1	3	22.57	22.58	22.53	23.5	2		
1.4	64QAM	1	5	22.56	22.71	22.63				
1.4	64QAM	3	0	22.64	22.77	22.63				
1.4	64QAM	3	1	22.49	22.66	22.59	20.5	5		
1.4	64QAM	3	3	22.49	22.61	22.48				
1.4	64QAM	6	0	21.70	21.76	21.64				
1.4	256QAM	1	0	19.47	19.55	19.51	20.5	5		
1.4	256QAM	1	3	19.34	19.42	19.38				
1.4	256QAM	1	5	19.30	19.42	19.30				
1.4	256QAM	3	0	19.40	19.49	19.38	20.5	5		
1.4	256QAM	3	1	19.32	19.41	19.27				
1.4	256QAM	3	3	19.22	19.32	19.19				
1.4	256QAM	6	0	19.31	19.42	19.32				

Band 4 Other PA Ant1																
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Mod Ch./Frac	Power Med Mod Ch./Frac	Power High Mod Ch./Frac	Turn-up time (dBm)	MPR (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	24.44	24.44	24.41	25.5	0								
20	QPSK	1	40	24.34	24.47	24.32										
20	QPSK	1	99	24.29	24.42	24.38										
20	QPSK	50	0	23.31	23.53	23.33	24.5	1								
20	QPSK	50	24	23.39	23.43	23.40										
20	QPSK	50	50	23.32	23.48	23.38										
20	HQAM	100	0	23.37	23.46	23.36	24.5	1								
20	HQAM	100	0	23.32	23.45	23.35										
20	HQAM	1	49	23.32	23.39	23.30										
20	HQAM	1	99	23.24	23.35	23.30	23.5	2								
20	HQAM	50	0	22.41	22.55	22.44										
20	HQAM	50	24	22.31	22.41	22.27										
20	HQAM	100	0	22.44	22.50	22.38	23.5	2								
20	HQAM	100	0	22.37	22.52	22.49										
20	HQAM	1	40	22.39	22.44	22.39										
20	HQAM	1	99	22.24	22.37	22.31	22.5	3								
20	HQAM	50	0	21.41	21.46	21.38										
20	HQAM	50	24	21.27	21.39	21.31										
20	HQAM	100	0	21.30	21.41	21.36	20.5	5								
20	HQAM	1	0	19.41	19.49	19.44										
20	HQAM	1	49	19.29	19.40	19.35										
20	HQAM	1	99	19.24	19.36	19.26	20.5	5								
20	HQAM	50	0	19.40	19.34	19.34										
20	HQAM	50	24	19.30	19.38	19.25										
20	HQAM	50	50	19.27	19.31	19.18	20.025	20.025								
20	HQAM	100	0	19.34	19.38	19.33										
Channel																
Frequency (MHz)																
15	QPSK	1	0	24.40	24.40	24.42	25.5	0								
15	QPSK	1	37	24.38	24.34	24.26										
15	QPSK	1	74	24.19	24.28	24.32										
15	QPSK	36	0	23.18	23.48	23.30	24.5	1								
15	QPSK	36	20	23.14	23.28	23.35										
15	QPSK	36	39	23.27	23.22	23.23										
15	HQAM	1	0	23.28	23.38	23.24	24.5	1								
15	HQAM	1	37	23.22	23.29	23.19										
15	HQAM	1	74	23.17	23.24	23.17										
15	HQAM	36	0	22.31	22.50	22.37	23.5	2								
15	HQAM	36	20	22.23	22.38	22.18										
15	HQAM	36	39	22.12	22.26	22.23										
15	HQAM	75	0	22.33	22.37	22.27	23.5	2								
15	HQAM	1	0	22.34	22.43	22.38										
15	HQAM	1	37	22.26	22.30	22.19										
15	HQAM	1	74	22.21	22.24	22.24	22.5	3								
15	HQAM	36	0	21.34	21.35	21.24										
15	HQAM	36	20	21.08	21.23	21.28										
15	HQAM	36	39	21.18	21.34	21.27	20.5	5								
15	HQAM	75	0	21.21	21.31	21.25										
15	HQAM	1	0	19.30	19.44	19.37										
15	HQAM	1	37	19.18	19.26	19.26	20.5	5								
15	HQAM	1	74	19.14	19.25	19.20										
15	HQAM	36	0	19.30	19.37	19.27										
15	HQAM	36	20	19.27	19.33	19.18	20.5	5								
15	HQAM	36	39	19.19	19.27	19.10										
15	HQAM	75	0	19.11	19.32	19.20										
Channel																
Frequency (MHz)																
10	QPSK	1	0	24.31	24.47	24.32	25.5	0								
10	QPSK	1	25	24.20	24.32	24.17										
10	QPSK	1	40	24.17	24.30	24.29										
10	QPSK	15	0	23.17	23.48	23.30	24.5	1								
10	QPSK	15	12	23.29	23.28	23.28										
10	QPSK	25	0	23.20	23.25	23.18										
10	HQAM	1	0	23.19	23.32	23.28	24.5	1								
10	HQAM	1	25	23.27	23.31	23.20										
10	HQAM	1	40	23.17	23.27	23.20										
10	HQAM	25	0	22.33	22.44	22.34	23.5	2								
10	HQAM	25	12	22.19	22.28	22.14										
10	HQAM	25	25	22.10	22.30	22.19										
10	HQAM	50	0	22.39	22.41	22.25	23.5	2								
10	HQAM	1	0	22.27	22.41	22.41										
10	HQAM	1	25	22.29	22.33	22.31										
10	HQAM	1	49	22.18	22.32	22.25	22.5	3								
10	HQAM	25	0	21.35	21.39	21.29										
10	HQAM	25	12	21.08	21.24	21.22										
10	HQAM	25	25	21.22	21.25	21.24	20.5	5								
10	HQAM	50	0	21.17	21.35	21.24										
10	HQAM	50	0	19.27	19.43	19.35										
10	HQAM	1	25	19.23	19.27	19.22	20.5	5								
10	HQAM	1	49	19.12	19.26	19.14										
10	HQAM	25	0	19.34	19.30	19.23										
10	HQAM	25	12	19.19	19.30	19.12	20.5	5								
10	HQAM	25	25	19.17	19.19	19.06										
10	HQAM	50	0	19.17	19.24	19.21										
Channel																
Frequency (MHz)																
5	QPSK	1	0	24.33	24.45	24.34	25.5	0								
5	QPSK	1	12	24.24	24.33	24.23										
5	QPSK	1	24	24.17	24.33	24.33										
5	QPSK	12	0	23.17	23.45	23.21	24.5	1								
5	QPSK	12	7	23.27	23.34	23.28										
5	QPSK	12	13	23.23	23.22	23.16										
5	HQAM	1	0	23.39	23.42	23.33	24.5	1								
5	HQAM	1	0	23.25	23.31	23.24										
5	HQAM	1	12	23.19	23.29	23.23										
5	HQAM	12	0	22.29	22.43	22.34	23.5	2								
5	HQAM	12	7	22.20	22.34	22.20										
5	HQAM	12	13	22.10	22.25	22.12										
5	HQAM	25	0	22.30	22.40	22.28	23.5	2								
5	HQAM	1	0	22.22	22.41	22.39										
5	HQAM	1	12	22.14	22.37	22.30										
5	HQAM	1	24	22.13	22.28	22.20	22.5	3								
5	HQAM	12	0	21.30	21.34	21.28										
5	HQAM	12	7	21.04	21.20	21.18										
5	HQAM	25	0	21.21	21.29	21.20	20.5	5								
5	HQAM	1	0	19.28	19.43	19.38										
5	HQAM	1	12	19.23	19.31	19.22										
5	HQAM	12	0	19.27	19.29	19.19	20.5	5								
5	HQAM	12	7	19.35	19.37	19.25										
5	HQAM	12	13	19.24	19.31	19.19										
5	HQAM	25	0	19.33	19.30	19.20	20.5	5								
5	HQAM	25	12	19.19	19.30	19.12										
5	HQAM	25	25	19.11	19.30	19.18										
Channel																
Frequency (MHz)																
3	QPSK	1	0	24.39	24.45	24.34	25.5	0								
3	QPSK	1	8	24.22	24.36	24.21										
3	QPSK	1	24	24.15	24.32	24.29										
3	QPSK	8	0	23.33	23.52	23.31	24.5	1								
3	QPSK	8	4	23.32	23.32	23.30										
3	QPSK	8	20	23.18	23.40	23.18										
3	QPSK	16	0	23.30	23.36	23.24	24.5	1								
3	HQAM	1	0	23.18	23.31	23.20										
3	HQAM	1	8	23.17	23.34	23.21										
3	HQAM	1	14	23.12	23.24	23.21	23.5	2								
3	HQAM	8	0	22.33	22.41	22.38										
3	HQAM	8	4	22.30	22.39	22.34										
3	HQAM	8	7	22.14	22.20	22.20	23.5	2								
3	HQAM	16	0	22.37	22.37	22.35										
3	HQAM	16	0	22.23	22.37	22.38										
3	HQAM	8	8	22.30	22.30	23.21	23.5	2								
3	HQAM	8	8	22.22	22.22	22.22										
3	HQAM	8	8	21.27	21.31	21.31										
3	HQAM	8	4	21.04	21.20	21.20	22.5	3								
3	HQAM	8	8	21.28	21.28	21.28										
3	HQAM	16	0	21.22	21.35	21.22										
3	HQAM	1	0	19.26	19.43	19.37	20.5	5								
3	HQAM	1	8	19.25	19.33	19.33										
3	HQAM	1	14	19.09	19.22	19.18										
3	HQAM	8	0	19.34	19.33	19.28	20.5	5								
3	HQAM	8	4	19.24	19.29	19.20										
3	HQAM	8	7	19.20	19.26	19.24										
3	HQAM	16	0	19.14	19.28	19.27	20.025	20.025								
Channel																
Frequency (MHz)																
1.4	QPSK	1	0	24.29	24.48	24.29	25.5	0								
1.4	QPSK	1	8	24.20	24.39	24.28										
1.4	QPSK	1	5	24.17	24.29	24.31										
1.4	QPSK	3	0	24.30	24.44	24.31	24.5	1								
1.4	QPSK	3	2	24.27	24.34	24.32										
1.4	QPSK	3	3	24.24	24.34	24.30										
1.4	QPSK	6	0	24.19	24.40	23.23	24.5	1								
1.4	HQAM	1	0	23.32	23.42	23.32										
1.4	HQAM	1	3	23.24	23.32	23.24										
1.4	HQAM	1	5	23.25	23.39	23.30	23.5	2								
1.4	HQAM	3	0	23.18	23.31	23.27										
1.4	HQAM	3	3	23.22	23.35	23.25										
1.4	HQAM	3	3	23.19	23.29	23.27	23.5	2								
1.4	HQAM	1	0	22.27	22.38	22.12										
1.4	HQAM	1	3	22.28	22.36	22.27										
1.4	HQAM	3	0	22.26	22.44	22.46	23.5	2								
1.4	HQAM	3	3	22.10	22.30	22.29										
1.4	HQAM	3	6	21.19	21.35	21.35										
1.4	HQAM	6	0	21.05	21.26	21.23	22.5	3								
1.4	HQAM	1	0	19.16	19.32	19.27										
1.4	HQAM	1	6	19.15	19.27	19.22										
1.4	HQAM	3	0	19.15	19.28	19.23	20.5	5								
1.4	HQAM	3	3	19.20	19.27	19.21										
1.4	HQAM	3	3	19.19	19.25	19.06										

Band 4 Other PA Ant2																
SW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dB)	MFR (dB)								
Channel				2000	20175	20398										
Frequency (MHz)				1720	1732.5	1745										
20	QPSK	1	0	23.68	23.85	23.77	24.5	0								
20	QPSK	1	49	23.87	23.73	23.81										
20	QPSK	1	99	23.65	23.76	23.69										
20	QPSK	50	0	22.69	22.82	22.75	23.5	1								
20	QPSK	50	24	22.87	22.81	22.86										
20	QPSK	50	50	22.71	22.79	22.74										
20	16QAM	100	0	22.64	22.76	22.68	23.5	1								
20	16QAM	1	0	22.69	22.75	22.67										
20	16QAM	1	49	22.54	22.69	22.62										
20	16QAM	1	99	22.57	22.65	22.58	22.5	2								
20	16QAM	50	0	21.64	21.71	21.58										
20	16QAM	50	24	21.43	21.57	21.49										
20	16QAM	100	0	21.55	21.64	21.54	22.5	2								
20	64QAM	1	0	21.55	21.69	21.58										
20	64QAM	1	49	21.48	21.61	21.49										
20	64QAM	1	99	21.48	21.54	21.42	21.5	3								
20	64QAM	50	0	20.52	20.62	20.50										
20	64QAM	50	24	20.38	20.49	20.35										
20	64QAM	50	50	20.45	20.55	20.49	19.5	5								
20	64QAM	100	0	20.52	20.58	20.51										
20	256QAM	1	0	18.48	18.53	18.50										
20	256QAM	1	49	18.43	18.49	18.40	19.5	5								
20	256QAM	1	99	18.37	18.45	18.39										
20	256QAM	50	0	18.43	18.50	18.38										
20	256QAM	50	24	18.36	18.44	18.30	19.5	5								
20	256QAM	50	50	18.28	18.37	18.29										
20	256QAM	100	0	18.32	18.44	18.36										
Channel				20005	20175	20398	Turn-up time (dB)	MFR (dB)								
Frequency (MHz)				1717.5	1725	1747.5										
15	QPSK	1	0	23.82	23.77	23.84	24.5	0								
15	QPSK	1	37	23.54	23.68	23.56										
15	QPSK	1	74	23.59	23.62	23.57										
15	QPSK	36	8	22.60	22.70	22.62	23.5	1								
15	QPSK	36	20	22.59	22.73	22.57										
15	QPSK	36	39	22.62	22.71	22.67										
15	QPSK	75	0	22.54	22.72	22.57	23.5	1								
15	16QAM	1	0	22.62	22.67	22.58										
15	16QAM	1	37	22.43	22.59	22.55										
15	16QAM	1	74	22.44	22.53	22.44	22.5	2								
15	16QAM	36	0	21.58	21.65	21.53										
15	16QAM	36	20	21.35	21.50	21.39										
15	16QAM	36	39	21.26	21.37	21.33	21.5	3								
15	16QAM	75	0	21.48	21.58	21.43										
15	64QAM	1	0	21.41	21.55	21.42										
15	64QAM	1	37	21.30	21.50	21.35	22.5	2								
15	64QAM	1	74	21.40	21.48	21.34										
15	64QAM	36	0	20.40	20.53	20.36										
15	64QAM	36	20	20.29	20.36	20.22	21.5	3								
15	64QAM	36	39	20.37	20.50	20.41										
15	64QAM	75	0	20.37	20.49	20.40										
15	256QAM	1	0	18.42	18.44	18.44	19.5	5								
15	256QAM	1	37	18.34	18.38	18.27										
15	256QAM	1	74	18.26	18.38	18.31										
15	256QAM	36	0	18.28	18.37	18.30	19.5	5								
15	256QAM	36	20	18.24	18.37	18.30										
15	256QAM	36	39	18.20	18.28	18.16										
15	256QAM	75	0	18.25	18.37	18.22	20000	20175	20398	Turn-up time (dB)	MFR (dB)					
Channel				20000	20175 <th>20398</th>	20398										
Frequency (MHz)				23.82	23.76	23.84										
10	QPSK	1	0	23.58	23.59	23.53	24.5	0								
10	QPSK	1	25	23.55	23.59	23.53										
10	QPSK	1	49	23.54	23.71	23.55										
10	QPSK	25	0	22.60	22.70	22.57	23.5	1								
10	QPSK	25	12	22.55	22.73	22.61										
10	QPSK	25	25	22.63	22.72	22.64										
10	QPSK	50	0	22.58	22.67	22.55	23.5	1								
10	16QAM	1	0	22.61	22.61	22.58										
10	16QAM	1	25	22.44	22.63	22.54										
10	16QAM	1	49	22.49	22.55	22.45	22.5	2								
10	16QAM	25	0	21.49	21.59	21.51										
10	16QAM	25	12	21.31	21.49	21.42										
10	16QAM	25	25	21.22	21.43	21.33	21.5	3								
10	16QAM	50	0	21.45	21.52	21.46										
10	64QAM	1	0	21.42	21.58	21.50										
10	64QAM	1	25	21.35	21.50	21.35	22.5	2								
10	64QAM	1	49	21.36	21.40	21.35										
10	64QAM	25	0	20.39	20.53	20.43										
10	64QAM	25	12	20.29	20.43	20.23	21.5	3								
10	64QAM	25	25	20.38	20.47	20.41										
10	64QAM	50	0	20.43	20.43	20.36										
10	256QAM	1	0	18.39	18.48	18.44	19.5	5								
10	256QAM	1	25	18.30	18.39	18.30										
10	256QAM	1	49	18.26	18.37	18.32										
10	256QAM	25	0	18.36	18.42	18.31	19.5	5								
10	256QAM	25	12	18.23	18.32	18.23										
10	256QAM	25	25	18.18	18.23	18.21										
10	256QAM	50	0	18.20	18.31	18.23	19975	20175	20375	Turn-up time (dB)	MFR (dB)					
Channel				1725.5	1732.5	1742.5										
Frequency (MHz)				23.82	23.78	23.83										
5	QPSK	1	0	23.58	23.66	23.48	24.5	0								
5	QPSK	1	12	23.58	23.66	23.48										
5	QPSK	1	24	23.55	23.62	23.52										
5	QPSK	12	0	22.62	22.70	22.63	23.5	1								
5	QPSK	12	7	22.62	22.74	22.60										
5	QPSK	12	13	22.66	22.75	22.61										
5	QPSK	25	0	22.53	22.65	22.53	23.5	1								
5	QPSK	25	1	22.63	22.65	22.58										
5	QPSK	25	12	22.47	22.68	22.53										
5	16QAM	1	0	22.63	22.65	22.58	23.5	1								
5	16QAM	1	12	22.48	22.67	22.54										
5	16QAM	1	24	22.43	22.59	22.47										
5	16QAM	12	0	21.49	21.58	21.48	22.5	2								
5	16QAM	12	7	21.28	21.48	21.38										
5	16QAM	12	13	21.24	21.46	21.37										
5	16QAM	25	0	21.58	21.58	21.51	22.5	2								
5	16QAM	25	1	21.46	21.58	21.42										
5	16QAM	25	12	21.39	21.50	21.38										
5	16QAM	25	24	21.48	21.48	21.41	21.5	3								
5	16QAM	50	0	20.42	20.42	20.28										
5	16QAM	50	12	20.33	20.42	20.28										
5	16QAM	50	24	20.42	20.42	20.33	19.5	5								
5	16QAM	100	0	20.46	20.47	20.40										
5	256QAM	1	0	18.38	18.44	18.39										
5	256QAM	1	12	18.30	18.39	18.31	19.5	5								
5	256QAM	1	24	18.26	18.38	18.31										
5	256QAM	12	0	18.38	18.40	18.31										
5	256QAM	12	7	18.24	18.29	18.21	19.5	5								
5	256QAM	12	13	18.19	18.23	18.22										
5	256QAM	25	0	18.18	18.26	18.24										
Channel				19975 <th>20175</th> <th>20398</th> <th>Turn-up time (dB)</th> <th>MFR (dB)</th> <th colspan="4" rowspan="2"></th>	20175	20398	Turn-up time (dB)	MFR (dB)								
Frequency (MHz)				1710.7 <th>1722.5<th>1734.3<th colspan="6"></th></th></th>	1722.5 <th>1734.3<th colspan="6"></th></th>	1734.3 <th colspan="6"></th>										
14	QPSK	1	0	23.54	23.72	23.66	24.5	0								
14	QPSK	1	14	23.54	23.70	23.58										
14	QPSK	1	28	23.58	23.68	23.54										
14	QPSK	3	0	22.65	22.66	22.61	23.5	1								
14	QPSK	3	8	22.68	22.69	22.62										
14	QPSK	3	15	22.51	22.68	22.54										
14	QPSK	8	0	22.65	22.65	22.58	23.5	1								
14	QPSK	8	8	22.65	22.66	22.61										
14	QPSK	8	15	22.59	22.68	22.54										
14	16QAM	1	0	22.63	22.64	22.54	23.5	1								
14	16QAM	1	8	22.40	22.60	22.54										
14	16QAM	1	14	22.43	22.54	22.47										
14	16QAM	3	0	21.67	21.62	21.59	22.5	2								
14	16QAM	3	8	21.36	21.48	21.41										
14	16QAM	3	15	21.24	21.36	21.37										
14	16QAM	8	0	21.41	21.48	21.41	22.5	2								
14	16QAM	8	8	21.43	21.61	21.51										
14	16QAM	8	15	21.38	21.48	21.38										
14	16QAM	15	0	20.45	20.47	20.36	21.5	3								
14	16QAM	15	8	20.36	20.44	20.36										
14	16QAM	15	15	20.34	20.41	20.36										
14	16QAM	30	0	20.44	20.49	20.42	19.5	5								
14	16QAM	30	8	20.37	20.47	20.42										
14	16QAM	30	15	20.34	20.43	20.39										
14	256QAM	1	0	18.36	18.35	18.31	19.5	5								
14	256QAM	1	14	18.28	18.38	18.26										
14	256QAM	1	28	18.24	18.31	18.26										
14	256QAM	3	0	18.31	18.32	18.27	19.5	5								
14	256QAM	3	8	18.26	18.31	18.27										
14	256QAM	3	15	18.18	18.23	18.25										
14	256QAM	8	0	18.14	18.26	18.17	20000	20175	20398	Turn-up time (dB)	MFR (dB)					
14	256QAM	8	7	18.14	18.26	18.17										
14	256QAM	8	14	18.08	18.23	18.13										
14	256QAM	6	0	18.21	18.32	18.26	19.5	5								
14	256QAM	6	1	18.28	18.38	18.28										
14	256QAM	6	14	18.17	18.23	18.17										
14	256QAM	6	15	18.18	18.26	18.17										
14	256QAM	6	21	18.18	18											

Band 4 Other PA Ant3																		
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dB)	MPR (dB)										
Channel																		
Frequency (MHz)																		
20	QPSK	1	0	23.98	24.17	23.88	25.5	0										
20	QPSK	1	49	23.78	23.88	23.78												
20	QPSK	1	99	23.76	23.97	23.75												
20	QPSK	50	0	22.87	23.12	22.86	24.5	1										
20	QPSK	50	24	22.86	23.00	22.74												
20	QPSK	50	50	22.66	23.02	22.69												
20	QPSK	100	0	22.58	22.61	22.60	24.5	1										
20	16QAM	1	0	22.87	22.87	22.85												
20	16QAM	1	49	22.58	22.81	22.56												
20	16QAM	1	99	22.58	22.77	22.59	23.5	2										
20	16QAM	50	0	21.54	21.62	21.58												
20	16QAM	50	24	21.59	21.72	21.56												
20	16QAM	100	0	21.53	21.78	21.56	23.5	2										
20	64QAM	1	0	21.54	21.80	21.56												
20	64QAM	1	99	21.53	21.65	21.52												
20	64QAM	50	0	20.54	20.75	20.52	22.5	3										
20	64QAM	50	24	20.58	20.62	20.52												
20	64QAM	50	50	20.56	20.68	20.53												
20	256QAM	1	0	18.52	18.68	18.56	20.5	5										
20	256QAM	1	49	18.56	18.59	18.57												
20	256QAM	1	99	18.51	18.55	18.52												
20	256QAM	50	0	18.58	18.61	18.53	20.5	5										
20	256QAM	50	24	18.53	18.55	18.51												
20	256QAM	50	50	18.59	18.58	18.53												
20	256QAM	100	0	18.52	18.53	18.50	20.000	20175	20355	Turn-up time (dB)	MPR (dB)							
Channel																		
Frequency (MHz)																		
15	QPSK	1	0	23.52	23.81	23.58	25.5	0										
15	QPSK	1	37	23.53	23.68	23.54												
15	QPSK	1	74	23.55	23.89	23.54												
15	QPSK	36	0	22.57	22.79	22.59	24.5	1										
15	QPSK	36	20	22.58	22.60	22.59												
15	QPSK	36	36	22.54	22.80	22.62												
15	16QAM	1	0	22.55	22.78	22.53	24.5	1										
15	16QAM	1	0	22.59	22.74	22.54												
15	16QAM	1	37	22.55	22.66	22.55												
15	16QAM	1	74	22.56	22.71	22.55	23.5	2										
15	16QAM	36	0	21.54	21.74	21.52												
15	16QAM	36	20	21.57	21.53	21.53												
15	16QAM	36	36	21.56	21.57	21.52	23.5	2										
15	16QAM	75	0	21.54	21.65	21.59												
15	64QAM	1	0	21.58	21.70	21.57												
15	64QAM	1	37	21.52	21.63	21.53	22.5	3										
15	64QAM	1	74	21.55	21.51	21.51												
15	64QAM	36	0	20.52	20.70	20.54												
15	64QAM	36	20	20.54	20.52	20.55	20.5	5										
15	64QAM	36	36	20.55	20.58	20.59												
15	64QAM	75	0	20.59	20.66	20.55												
15	256QAM	1	0	18.52	18.55	18.51	20.5	5										
15	256QAM	1	37	18.53	18.59	18.58												
15	256QAM	1	74	18.50	18.52	18.53												
15	256QAM	36	0	18.51	18.51	18.57	20.5	5										
15	256QAM	36	20	18.64	18.67	18.62												
15	256QAM	36	36	18.52	18.59	18.53												
15	256QAM	75	0	18.57	18.52	18.51	20.000	20175	20355	Turn-up time (dB)	MPR (dB)							
Channel																		
Frequency (MHz)																		
10	QPSK	1	0	23.75	23.88	23.84	25.5	0										
10	QPSK	1	25	23.53	23.62	23.64												
10	QPSK	1	49	23.76	23.83	23.67												
10	QPSK	36	0	22.67	22.82	22.74	24.5	1										
10	QPSK	36	12	22.80	22.91	22.68												
10	QPSK	36	25	22.81	22.89	22.59												
10	QPSK	50	0	22.72	22.77	22.51	24.5	1										
10	16QAM	1	0	22.63	22.79	22.75												
10	16QAM	1	25	22.61	22.73	22.67												
10	16QAM	1	49	22.67	22.70	22.68	23.5	2										
10	16QAM	25	0	21.60	21.74	21.65												
10	16QAM	25	12	21.58	21.66	21.60												
10	16QAM	25	25	21.51	21.53	21.58	23.5	2										
10	16QAM	50	0	21.51	21.70	21.70												
10	64QAM	1	0	21.60	21.68	21.63												
10	64QAM	1	25	21.54	21.60	21.60	22.5	3										
10	64QAM	25	0	20.62	20.65	20.58												
10	64QAM	25	12	20.54	20.55	20.51												
10	64QAM	25	25	20.53	20.58	20.66	20.5	5										
10	64QAM	50	0	20.52	20.61	20.53												
10	256QAM	1	0	18.55	18.60	18.59												
10	256QAM	1	25	18.53	18.59	18.59	20.5	5										
10	256QAM	1	49	18.53	18.54	18.51												
10	256QAM	25	0	18.53	18.55	18.57												
10	256QAM	25	12	18.56	18.53	18.58	20.5	5										
10	256QAM	25	25	18.58	18.58	18.52												
10	256QAM	50	0	18.52	18.52	18.53												
Channel																		
Frequency (MHz)																		
5	QPSK	1	0	23.41	23.63	23.45	25.5	0										
5	QPSK	1	12	23.56	23.69	23.60												
5	QPSK	1	24	23.75	23.69	23.69												
5	QPSK	12	0	22.69	22.74	22.71	24.5	1										
5	QPSK	12	7	22.76	22.86	22.95												
5	QPSK	12	13	22.85	22.86	22.85												
5	QPSK	25	0	22.65	22.77	22.83	24.5	1										
5	16QAM	1	0	22.69	22.80	22.71												
5	16QAM	1	12	22.59	22.75	22.68												
5	16QAM	1	24	22.														

Band 4 Other PA Ant4										
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	Marg (dB)		
Channel				2000	20175	20350	Turn-up limit (dB)	Marg (dB)		
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	23.07	23.27	23.21	24.5	0		
20	QPSK	1	49	22.91	23.15	23.12				
20	QPSK	1	99	23.03	23.22	23.20				
20	QPSK	50	0	21.98	22.27	22.14	23.5	1		
20	QPSK	50	24	22.00	22.18	22.14				
20	QPSK	50	50	22.05	22.23	22.24				
20	QPSK	100	0	22.00	22.19	22.10	23.5	1		
20	16QAM	1	0	22.03	22.21	22.11				
20	16QAM	1	99	22.09	22.27	22.25				
20	16QAM	50	0	21.05	21.25	21.22	22.5	2		
20	16QAM	50	24	21.08	21.26	21.20				
20	16QAM	50	50	21.04	21.21	21.14				
20	16QAM	100	0	20.99	21.23	21.15	22.5	2		
20	64QAM	1	0	20.93	21.13	21.11				
20	64QAM	1	49	21.00	21.24	21.14				
20	64QAM	1	99	21.00	21.23	21.17	21.5	3		
20	64QAM	50	0	20.93	20.22	20.17				
20	64QAM	50	24	20.98	20.25	20.20				
20	64QAM	50	50	20.95	20.23	20.18	19.5	5		
20	64QAM	100	0	20.91	20.20	20.16				
20	256QAM	1	0	17.81	18.02	17.90				
20	256QAM	1	49	17.87	18.11	18.07	19.5	5		
20	256QAM	1	99	17.83	18.04	17.97				
20	256QAM	50	0	18.06	18.26	18.18				
20	256QAM	50	24	17.93	18.16	18.15	19.5	5		
20	256QAM	50	50	17.94	18.17	18.14				
20	256QAM	100	0	18.00	18.19	18.13				
Channel				20005	20175	20350	Turn-up limit (dB)		Marg (dB)	
Frequency (MHz)				1717.5	1732.5	1747.5	Turn-up limit (dB)	Marg (dB)		
15	QPSK	1	0	22.83	23.12	23.10				
15	QPSK	1	37	22.80	23.03	23.04	24.5	0		
15	QPSK	1	74	22.90	23.11	23.12				
15	QPSK	36	0	21.80	22.14	22.04	23.5	1		
15	QPSK	36	20	21.89	22.12	22.05				
15	QPSK	36	36	22.00	22.16	22.10				
15	QPSK	75	0	21.88	22.14	22.00	23.5	1		
15	16QAM	1	0	21.97	22.15	22.01				
15	16QAM	1	37	22.02	22.17	22.14				
15	16QAM	1	74	21.94	22.17	22.20	22.5	2		
15	16QAM	36	0	20.97	21.14	21.11				
15	16QAM	36	20	21.01	21.12	21.08				
15	16QAM	36	36	20.90	21.08	21.00	22.5	2		
15	16QAM	75	0	20.92	21.17	21.02				
15	64QAM	1	0	20.82	21.02	21.05				
15	64QAM	1	37	20.89	21.15	21.00	21.5	3		
15	64QAM	1	74	20.90	21.16	21.11				
15	64QAM	36	0	19.94	20.09	20.09				
15	64QAM	36	20	19.97	20.16	20.05	19.5	5		
15	64QAM	36	36	19.98	20.08	20.03				
15	64QAM	75	0	19.92	20.07	20.06				
15	256QAM	1	0	17.65	17.90	17.83	19.5	5		
15	256QAM	1	37	17.74	18.04	17.97				
15	256QAM	1	74	17.76	17.92	17.90				
15	256QAM	36	0	17.97	18.11	18.02	19.5	5		
15	256QAM	36	20	17.82	18.03	18.01				
15	256QAM	36	36	17.89	18.11	18.02				
15	256QAM	75	0	17.90	18.08	18.05				
Channel				20000	20175	20350	Turn-up limit (dB)	Marg (dB)		
Frequency (MHz)				1715	1732.5	1750	Turn-up limit (dB)	Marg (dB)		
10	QPSK	1	0	23.02	23.15	23.11				
10	QPSK	1	25	22.78	23.03	23.01	24.5	0		
10	QPSK	1	49	22.88	23.08	23.12				
10	QPSK	25	0	21.84	22.06	22.00	23.5	1		
10	QPSK	25	12	21.94	22.06	22.05				
10	QPSK	25	25	21.98	22.20	22.12				
10	QPSK	50	0	21.85	22.04	21.98	23.5	1		
10	16QAM	1	0	21.98	22.08	22.02				
10	16QAM	1	25	22.00	22.20	22.13				
10	16QAM	1	49	22.04	22.21	22.10	22.5	2		
10	16QAM	25	0	20.95	21.19	21.10				
10	16QAM	25	12	20.99	21.21	21.07				
10	16QAM	25	25	20.97	21.11	21.01	21.5	3		
10	16QAM	50	0	20.91	21.15	21.08				
10	64QAM	1	0	20.83	21.08	21.01				
10	64QAM	1	25	20.91	21.18	21.04	22.5	2		
10	64QAM	1	49	20.94	21.16	21.10				
10	64QAM	25	0	19.90	20.07	20.10				
10	64QAM	25	12	19.94	20.15	20.07	21.5	3		
10	64QAM	25	25	19.92	20.15	20.07				
10	64QAM	50	0	19.95	20.13	20.02				
10	256QAM	1	0	17.67	17.92	17.88	19.5	5		
10	256QAM	1	25	17.73	18.03	17.96				
10	256QAM	1	49	17.72	17.90	17.85				
10	256QAM	25	0	17.91	18.14	18.02	19.5	5		
10	256QAM	25	12	17.88	18.08	18.00				
10	256QAM	25	25	17.81	18.10	18.06				
10	256QAM	50	0	17.91	18.09	18.05				
Channel				19975	20175	20375	Turn-up limit (dB)	Marg (dB)		
Frequency (MHz)				1712.5	1732.5	1752.5	Turn-up limit (dB)	Marg (dB)		
5	QPSK	1	0	22.98	23.14	23.11				
5	QPSK	1	12	22.83	23.06	23.03	24.5	0		
5	QPSK	1	24	22.96	23.16	23.09				
5	QPSK	12	0	21.83	22.17	22.05	23.5	1		
5	QPSK	12	7	21.91	22.12	22.05				
5	QPSK	12	13	21.98	22.15	22.12				
5	QPSK	25	0	21.85	22.08	21.98	23.5	1		
5	16QAM	1	0	21.93	22.07	21.97				
5	16QAM	1	12	22.03	22.18	22.14				
5	16QAM	1	24	21.99	22.15	22.11	22.5	2		
5	16QAM	12	0	20.96	21.17	21.13				
5	16QAM	12	7	20.96	21.16	21.09				
5	16QAM	12	13	20.96	21.10	21.08	21.5	3		
5	16QAM	25	0	20.90	21.13	21.07				
5	64QAM	1	0	20.86	21.05	21.02				
5	64QAM	1	12	20.88	21.09	21.07	22.5	2		
5	64QAM	1	24	20.86	21.12	21.10				
5	64QAM	12	0	19.95	20.14	20.03				
5	64QAM	12	7	19.98	20.11	20.06	21.5	3		
5	64QAM	12	13	19.96	20.10	20.08				
5	64QAM	25	0	19.90	20.12	20.10				
5	256QAM	1	0	17.72	17.94	17.83	19.5	5		
5	256QAM	1	12	17.80	18.06	17.95				
5	256QAM	1	24	17.79	17.91	17.84				
5	256QAM	12	0	17.99	18.14	18.01	19.5	5		
5	256QAM	12	7	17.96	18.08	18.04				
5	256QAM	12	13	17.90	18.07	18.05				
5	256QAM	25	0	17.85	18.07	18.03				
Channel				19975	20175	20375	Turn-up limit (dB)	Marg (dB)		
Frequency (MHz)				1711.5	1732.5	1753.5	Turn-up limit (dB)	Marg (dB)		
3	QPSK	1	0	23.01	23.15	23.19				
3	QPSK	1	8	22.93	23.12	23.13	24.5	0		
3	QPSK	1	14	22.90	23.10	23.07				
3	QPSK	8	0	21.93	22.14	22.02	23.5	1		
3	QPSK	8	8	22.02	22.12	22.10				
3	QPSK	8	16	21.92	22.11	22.12				
3	QPSK	15	0	21.92	22.09	22.03	23.5	1		
3	16QAM	1	0	22.00	22.08	22.06				
3	16QAM	1	8	22.06	22.23	22.13				
3	16QAM	1	14	21.99	22.13	22.10	22.5	2		
3	16QAM	15	0	21.92	22.16	22.07				
3	16QAM	15	8	21.98	22.17	22.17				
3	16QAM	8	0	20.98	21.17	21.07	22.5	2		
3	16QAM	8	7	20.99	21.14	21.06				
3	16QAM	8	14	20.92	21.09	21.07				
3	16QAM	1	0	20.82	21.01	20.96	22.5	2		
3	16QAM	1	8	20.90	21.18	21.08				
3	16QAM	1	14	20.93	21.19	21.08				
3	16QAM	8	0	19.94	20.09	20.04	21.5	3		
3	16QAM	8	4	20.00	20.15	20.12				
3	16QAM	8	7	19.93	20.08	20.07				
3	256QAM	1	0	17.75	17.98	17.78	19.5	5		
3	256QAM	1	8	17.82	18.06	17.84				
3	256QAM	1	14	17.74	17.95	17.87				
3	256QAM	8	0	17.93	18.14	18.01	19.5	5		
3	256QAM	8	7	17.92	18.09	18.04				
3	256QAM	8	14	17.86	18.06	18.04				
3	256QAM	8	7	17.88	18.05	18.03				
3	256QAM	15	0	17.87	18.01	17.95	19.5	5		
3	256QAM	15	8	17.90	18.03	18.00				
3	256QAM	15	14	17.83	18.01	17.92				
3	256QAM	1	0	21.95	22.05	21.97	23.5	1		
3	16QAM	1	0	22.00	22.15	22.05				
3	16QAM	1	8	22.05	22.24	22.21				
3	16QAM	1	14	22.07	22.20	22.17	23.5	1		
3	16QAM	15	0	21.99	22.09	21.97				
3	16QAM	15	8	22.08	22.22	22.21				
3	16QAM	1	0	21.97	22.10	22.05	22.5	2		
3	16QAM	1	8	22.07	22.18	22.12				
3	16QAM	1	14	22						

Band 12 Other PA Ant0													
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Total up limit (dBm)						
Channel				2400	2405	2410							
Frequency (MHz)				704	707.5	711							
10	QPSK	1	0	24.50	24.50	24.44	25.5	0	24.5	1			
10	QPSK	1	25	24.37	24.44	24.45							
10	QPSK	1	49	24.40	24.50	24.45							
10	QPSK	25	0	23.70	23.74	23.63	24.5	1	23.58	1			
10	QPSK	25	12	23.63	23.67	23.61							
10	QPSK	25	25	23.49	23.64	23.58							
10	QPSK	50	0	23.55	23.59	23.55	24.5	1	23.52	1			
10	16QAM	1	0	23.47	23.62	23.58							
10	16QAM	1	25	23.59	23.68	23.62							
10	16QAM	1	49	23.54	23.57	23.48	23.5	2	22.54	2			
10	16QAM	25	0	22.55	22.66	22.62							
10	16QAM	25	12	22.81	22.66	22.52							
10	16QAM	25	25	22.44	22.51	22.44	23.5	2	22.54	2			
10	16QAM	50	0	22.54	22.61	22.48							
10	16QAM	1	0	22.54	22.66	22.54							
10	16QAM	1	25	22.60	22.68	22.54	22.5	3	21.84	3			
10	16QAM	1	49	22.70	22.78	22.61							
10	16QAM	25	0	21.48	21.75	21.65							
10	16QAM	25	12	21.61	21.86	21.84	20.5	5	19.52	5			
10	16QAM	25	25	21.60	21.76	21.65							
10	16QAM	50	0	21.90	22.04	21.92							
10	256QAM	1	0	20.00	20.13	19.99	20.5	5	19.08	5			
10	256QAM	1	25	19.81	19.92	19.88							
10	256QAM	1	49	20.05	20.17	20.08							
10	256QAM	25	0	19.47	19.55	19.52	20.5	5	19.52	5			
10	256QAM	25	12	19.80	19.84	19.75							
10	256QAM	25	25	19.60	19.72	19.67							
10	256QAM	50	0	19.65	19.69	19.62							
Channel				2405	2409	2418							
Frequency (MHz)				701.5	707.5	713.5							
5	QPSK	1	0	24.42	24.46	24.36	25.5	0	24.37	1			
5	QPSK	1	12	24.34	24.34	24.35							
5	QPSK	1	24	24.27	24.38	24.37							
5	QPSK	12	0	23.67	23.68	23.65	24.5	1	23.50	1			
5	QPSK	12	7	23.61	23.63	23.64							
5	QPSK	12	13	23.39	23.55	23.50							
5	QPSK	25	0	23.44	23.58	23.49	24.5	1	23.58	1			
5	16QAM	1	0	23.36	23.53	23.49							
5	16QAM	1	12	23.47	23.61	23.58							
5	16QAM	1	24	23.39	23.51	23.39	23.5	2	22.48	2			
5	16QAM	12	0	22.48	22.54	22.55							
5	16QAM	12	7	22.49	22.51	22.48							
5	16QAM	12	13	22.31	22.48	22.41	23.5	2	22.41	2			
5	16QAM	25	0	22.74	22.85	22.73							
5	16QAM	1	0	22.45	22.62	22.41							
5	16QAM	1	12	22.50	22.66	22.48	22.5	3	21.52	3			
5	16QAM	1	24	22.60	22.63	22.54							
5	16QAM	12	0	21.42	21.55	21.41							
5	16QAM	12	7	21.71	21.80	21.73	20.5	5	19.52	5			
5	16QAM	12	13	21.53	21.68	21.51							
5	16QAM	25	0	21.85	21.97	21.77							
5	256QAM	1	0	19.88	19.99	19.89	20.5	5	19.75	5			
5	256QAM	1	12	19.76	19.81	19.75							
5	256QAM	1	24	19.97	20.14	19.91							
5	256QAM	12	0	19.41	19.42	19.39	20.5	5	19.52	5			
5	256QAM	12	7	19.69	19.74	19.57							
5	256QAM	12	13	19.45	19.59	19.61							
5	256QAM	25	0	19.71	19.82	19.73							
Channel				2409	2409	2418							
Frequency (MHz)				701.5	707.5	714.5							
3	QPSK	1	0	24.40	24.52	24.41	25.5	0	24.38	1			
3	QPSK	1	8	24.34	24.34	24.34							
3	QPSK	1	14	24.36	24.40	24.38							
3	QPSK	8	0	23.68	23.68	23.68	24.5	1	23.53	1			
3	QPSK	8	4	23.55	23.59	23.58							
3	QPSK	8	7	23.39	23.52	23.53							
3	QPSK	16	0	23.60	23.62	23.48	24.5	1	23.58	1			
3	16QAM	1	0	23.39	23.49	23.49							
3	16QAM	1	8	23.47	23.53	23.55							
3	16QAM	1	14	23.48	23.53	23.38	23.5	2	22.48	2			
3	16QAM	8	0	22.45	22.58	22.59							
3	16QAM	8	4	22.47	22.59	22.48							
3	16QAM	8	7	22.39	22.40	22.45	23.5	2	22.77	2			
3	16QAM	16	0	22.77	22.77	22.79							
3	16QAM	1	0	22.44	22.57	22.41							
3	16QAM	1	8	22.56	22.58	22.39	22.5	3	21.52	3			
3	16QAM	1	14	22.59	22.73	22.52							
3	16QAM	8	0	21.44	21.55	21.43							
3	16QAM	8	4	21.77	21.83	21.75	20.5	5	19.52	5			
3	16QAM	8	7	21.49	21.61	21.52							
3	16QAM	16	0	21.79	22.00	21.83							
3	256QAM	1	0	19.86	20.01	19.89	20.5	5	19.52	5			
3	256QAM	1	8	19.67	19.80	19.77							
3	256QAM	1	14	19.98	20.04	19.82							
3	256QAM	8	0	19.43	19.50	19.43	20.5	5	19.52	5			
3	256QAM	8	4	19.72	19.70	19.59							
3	256QAM	8	7	19.48	19.59	19.53							
3	256QAM	16	0	19.81	19.81	19.81							
Channel				2417	2409	2413							
Frequency (MHz)				699.7	707.5	716.3							
1.4	QPSK	1	0	24.41	24.49	24.23	25.5	0	24.35	1			
1.4	QPSK	1	3	24.34	24.38	24.25							
1.4	QPSK	1	5	24.35	24.41	24.38							
1.4	QPSK	3	0	24.40	24.44	24.35	24.5	1	23.54	1			
1.4	QPSK	3	1	24.25	24.35	24.30							
1.4	QPSK	3	3	24.30	24.41	24.32							
1.4	QPSK	8	0	23.58	23.68	23.54	24.5	1	23.53	1			
1.4	16QAM	1	0	23.51	23.54	23.53							
1.4	16QAM	1	3	23.39	23.52	23.52							
1.4	16QAM	1	5	23.46	23.59	23.47	23.5	2	22.47	2			
1.4	16QAM	3	0	23.42	23.48	23.47							
1.4	16QAM	3	1	23.60	23.59	23.56							
1.4	16QAM	3	3	23.44	23.48	23.35	20.5	5	19.52	5			
1.4	16QAM	8	0	22.61	22.61	22.47							
1.4	16QAM	1	0	22.49	22.54	22.44							
1.4	16QAM	1	3	22.40	22.43	22.38	23.5	2	22.47	2			
1.4	16QAM	1	5	22.45	22.50	22.42							
1.4	16QAM	3	0	22.47	22.59	22.47							
1.4	16QAM	3	1	22.50	22.60	22.47	22.5	3	21.59	3			
1.4	16QAM	3	3	22.59	22.62	22.55							
1.4	16QAM	8	0	21.58	21.64	21.54	22.5	3	21.59	3			
1.4	16QAM	8	4	21.69	21.80	21.69							
1.4	256QAM	1	0	19.69	19.69	19.64	20.5	5	19.52	5			
1.4	256QAM	1	3	19.69	19.69	19.74							
1.4	256QAM	1	5	19.70	19.73	19.67	20.5	5	19.52	5			
1.4	256QAM	1	8	19.68	19.68	19.68							
1.4	256QAM	3	0	19.79	19.76	19.73	20.5	5	19.52	5			
1.4	256QAM	3	1	19.79	19.76	19.73							



Band 17 Other PA Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	APRS (dB)	
Channel				23760	23760	23805			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.43	24.51	24.46			
10	QPSK	1	26	24.31	24.40	24.36	25.5	0	
10	QPSK	1	49	24.38	24.47	24.33			
10	QPSK	25	0	23.64	23.66	23.67			
10	QPSK	25	14	23.45	23.50	23.46	24.5	1	
10	QPSK	25	26	23.34	23.46	23.34			
10	QPSK	50	0	23.48	23.50	23.49			
10	16QAM	1	0	23.46	23.50	23.42			
10	16QAM	1	26	23.29	23.42	23.32	24.5	1	
10	16QAM	1	49	23.21	23.34	23.26			
10	16QAM	25	0	22.58	22.73	22.62			
10	16QAM	25	12	22.69	22.72	22.58	23.5	2	
10	16QAM	25	25	22.69	22.73	22.62			
10	16QAM	50	0	22.67	22.70	22.73			
10	64QAM	1	0	22.43	22.50	22.41			
10	64QAM	1	26	22.50	22.54	22.46	23.5	2	
10	64QAM	1	49	22.36	22.50	22.51			
10	64QAM	25	0	21.59	21.66	21.59			
10	64QAM	25	12	21.68	21.77	21.66	22.5	3	
10	64QAM	25	25	21.50	21.56	21.49			
10	64QAM	50	0	21.59	21.66	21.62			
10	256QAM	1	0	19.62	19.60	19.61			
10	256QAM	1	26	19.63	19.61	19.76	20.5	5	
10	256QAM	1	49	19.59	19.70	19.66			
10	256QAM	25	0	19.47	19.58	19.46			
10	256QAM	25	12	19.52	19.60	19.59	20.5	5	
10	256QAM	25	25	19.50	19.54	19.43			
10	256QAM	50	0	19.60	19.67	19.58			
Channel				23765	23766	23805	Tune-up limit (dBm)	APRS (dB)	
Frequency (MHz)				709.5	710	711.5			
5	QPSK	1	0	24.39	24.45	24.43			
5	QPSK	1	12	24.24	24.30	24.25	25.5	0	
5	QPSK	1	24	24.35	24.36	24.22			
5	QPSK	12	0	23.59	23.61	23.49			
5	QPSK	12	7	23.40	23.47	23.39	24.5	1	
5	QPSK	12	19	23.28	23.42	23.25			
5	QPSK	25	0	23.44	23.50	23.39			
5	16QAM	1	0	23.32	23.45	23.31			
5	16QAM	1	12	23.20	23.32	23.26	24.5	1	
5	16QAM	1	24	23.07	23.29	23.22			
5	16QAM	12	0	22.64	22.61	22.51			
5	16QAM	12	7	22.66	22.59	22.54	23.5	2	
5	16QAM	12	15	22.56	22.59	22.51			
5	16QAM	25	0	22.57	22.67	22.63			
5	64QAM	1	0	22.38	22.37	22.37			
5	64QAM	1	12	22.41	22.46	22.37	23.5	2	
5	64QAM	1	24	22.22	22.27	22.15			
5	64QAM	12	0	21.44	21.58	21.53			
5	64QAM	12	7	21.60	21.70	21.54	22.5	3	
5	64QAM	12	19	21.37	21.51	21.35			
5	64QAM	25	0	21.44	21.57	21.49			
5	256QAM	1	0	19.76	19.70	19.68			
5	256QAM	1	12	19.72	19.75	19.66	20.5	5	
5	256QAM	1	24	19.48	19.59	19.53			
5	256QAM	12	0	19.37	19.46	19.33			
5	256QAM	12	7	19.39	19.47	19.43	20.5	5	
5	256QAM	12	19	19.44	19.48	19.33			
5	256QAM	25	0	19.56	19.63	19.52			

Band 12 Other PA Ant1									
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Total up limit (dBm)	MARF (dB)	
Channel				2340.0	2359.5	2379.0			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	23.69	23.74	23.67	25.5	0	
10	QPSK	1	25	23.59	23.66	23.61			
10	QPSK	1	49	23.67	23.61	23.62			
10	QPSK	25	0	22.66	22.76	22.67	24.5	1	
10	QPSK	25	12	22.56	22.70	22.69			
10	QPSK	25	25	22.65	22.65	22.69			
10	QPSK	50	0	22.59	22.72	22.67	24.5	1	
10	16QAM	1	0	22.58	22.67	22.55			
10	16QAM	1	25	22.53	22.61	22.59			
10	16QAM	1	49	22.54	22.57	22.53	23.5	2	
10	16QAM	25	0	21.73	21.81	21.71			
10	16QAM	25	12	21.70	21.73	21.65			
10	16QAM	25	25	21.63	21.77	21.66	23.5	2	
10	16QAM	50	0	21.68	21.71	21.52			
10	16QAM	1	0	21.65	21.79	21.70			
10	16QAM	1	25	21.59	21.72	21.69	22.5	3	
10	16QAM	1	49	21.65	21.69	21.64			
10	16QAM	25	0	20.90	20.95	20.98			
10	16QAM	25	12	20.82	20.89	20.76	20.5	5	
10	16QAM	25	25	20.91	20.91	20.84			
10	16QAM	50	0	20.68	20.83	20.72			
10	256QAM	1	0	18.85	18.96	18.92	20.5	5	
10	256QAM	1	25	18.83	18.93	18.89			
10	256QAM	1	49	18.85	18.88	18.74			
10	256QAM	25	0	18.78	18.67	18.84	20.5	5	
10	256QAM	25	12	18.68	18.77	18.72			
10	256QAM	25	25	18.74	18.63	18.69			
10	256QAM	50	0	18.65	18.91	18.82			
Channel				2353.5	2369.5	2385.5			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	23.62	23.67	23.58	25.5	0	
5	QPSK	1	12	23.67	23.58	23.56			
5	QPSK	1	24	23.67	23.55	23.62			
5	QPSK	12	0	22.55	22.67	22.54	24.5	1	
5	QPSK	12	7	22.51	22.64	22.59			
5	QPSK	12	13	22.51	22.62	22.62			
5	QPSK	25	0	22.55	22.67	22.53	24.5	1	
5	16QAM	1	0	22.57	22.55	22.58			
5	16QAM	1	12	22.51	22.55	22.59			
5	16QAM	1	24	22.59	22.54	22.59	23.5	2	
5	16QAM	12	0	21.65	21.74	21.63			
5	16QAM	12	7	21.61	21.63	21.59			
5	16QAM	12	13	21.63	21.66	21.58	23.5	2	
5	16QAM	25	0	21.53	21.58	21.51			
5	16QAM	1	0	21.54	21.71	21.58			
5	16QAM	1	12	21.55	21.54	21.64	22.5	3	
5	16QAM	1	24	21.51	21.61	21.58			
5	16QAM	12	0	20.77	20.90	20.83			
5	16QAM	12	7	20.69	20.79	20.65	20.5	5	
5	16QAM	12	13	20.67	20.85	20.72			
5	16QAM	25	0	20.56	20.80	20.60			
5	256QAM	1	0	18.71	18.90	18.73	20.5	5	
5	256QAM	1	12	18.74	18.82	18.61			
5	256QAM	1	24	18.73	18.77	18.65			
5	256QAM	12	0	18.64	18.70	18.77	20.5	5	
5	256QAM	12	7	18.59	18.67	18.63			
5	256QAM	12	13	18.62	18.74	18.55			
5	256QAM	25	0	18.79	18.80	18.74			
Channel				2366.5	2369.5	2378.5			
Frequency (MHz)				703.5	707.5	714.5			
3	QPSK	1	0	23.64	23.63	23.60	25.5	0	
3	QPSK	1	8	23.57	23.56	23.58			
3	QPSK	1	14	23.53	23.67	23.59			
3	QPSK	8	0	22.62	22.66	22.62	24.5	1	
3	QPSK	8	4	22.58	22.57	22.51			
3	QPSK	8	7	22.56	22.54	22.55			
3	QPSK	16	0	22.50	22.58	22.67	24.5	1	
3	16QAM	1	0	22.59	22.54	22.59			
3	16QAM	1	8	22.58	22.61	22.60			
3	16QAM	1	14	22.63	22.59	22.61	23.5	2	
3	16QAM	8	0	21.59	21.75	21.65			
3	16QAM	8	4	21.58	21.67	21.61			
3	16QAM	8	7	21.56	21.72	21.65	23.5	2	
3	16QAM	16	0	21.55	21.63	21.54			
3	16QAM	1	0	21.60	21.72	21.63			
3	16QAM	1	8	21.56	21.64	21.60	22.5	3	
3	16QAM	1	14	21.59	21.64	21.57			
3	16QAM	8	0	20.79	20.89	20.79			
3	16QAM	8	4	20.77	20.71	20.72	20.5	5	
3	16QAM	8	7	20.74	20.79	20.73			
3	16QAM	16	0	20.63	20.75	20.61			
3	256QAM	1	0	18.72	18.83	18.79	20.5	5	
3	256QAM	1	8	18.76	18.78	18.79			
3	256QAM	1	14	18.79	18.84	18.61			
3	256QAM	8	0	18.70	18.62	18.72	20.5	5	
3	256QAM	8	4	18.68	18.71	18.61			
3	256QAM	8	7	18.62	18.79	18.63			
3	256QAM	16	0	18.73	18.67	18.72			
Channel				2381.7	2369.5	2379.3			
Frequency (MHz)				699.7	707.5	716.3			
1.4	QPSK	1	0	23.64	23.65	23.58	25.5	0	
1.4	QPSK	1	3	23.52	23.51	23.55			
1.4	QPSK	1	5	23.58	23.70	23.65			
1.4	QPSK	3	0	23.55	23.63	23.59	24.5	1	
1.4	QPSK	3	1	23.59	23.58	23.59			
1.4	QPSK	3	3	23.62	23.62	23.64			
1.4	QPSK	8	0	22.04	22.72	22.61	24.5	1	
1.4	16QAM	1	0	22.62	22.68	22.59			
1.4	16QAM	1	3	22.64	22.61	22.67			
1.4	16QAM	1	5	22.54	22.60	22.53	23.5	2	
1.4	16QAM	3	0	22.84	22.67	22.61			
1.4	16QAM	3	1	22.61	22.67	22.60			
1.4	16QAM	3	3	22.56	22.62	22.68	23.5	2	
1.4	16QAM	8	0	21.66	21.75	21.68			
1.4	16QAM	1	0	21.59	21.69	21.62			
1.4	16QAM	1	3	21.59	21.67	21.52	22.5	3	
1.4	16QAM	1	5	21.84	21.58	21.62			
1.4	16QAM	3	0	21.55	21.71	21.60			
1.4	16QAM	3	1	21.50	21.68	21.63	20.5	5	
1.4	16QAM	3	3	21.53	21.58	21.53			
1.4	16QAM	8	0	20.74	20.82	20.66			
1.4	256QAM	1	0	18.75	18.87	18.87	20.5	5	
1.4	256QAM	1	3	18.77	18.87	18.79			
1.4	256QAM	1	5	18.79	18.74	18.61			
1.4	256QAM	3	0	18.70	18.73	18.74	20.5	5	
1.4	256QAM	3	1	18.65	18.67	18.60			
1.4	256QAM	3	3	18.66	18.75	18.59			
1.4	256QAM	8	0	18.79	18.78	18.76			

Band 17 Other PA Ant1										
SW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	APR3 (dB)		
Channel				-23.90	-23.90	-23.90				
Frequency (MHz)				709	710	711				
15	QPSK	1	0	23.57	23.70	23.59		25.5	0	
15	QPSK	1	25	23.54	23.59	23.51				
15	QPSK	1	49	23.55	23.59	23.51				
15	QPSK	25	0	22.60	22.66	22.58		24.5	1	
15	QPSK	25	12	22.53	22.59	22.55				
15	QPSK	25	25	22.53	22.58	22.56				
15	QPSK	50	0	22.57	22.61	22.54		24.5	1	
15	16QAM	1	0	22.50	22.56	22.59				
15	16QAM	1	25	22.57	22.53	22.51				
15	16QAM	1	49	22.53	22.59	22.52		23.5	2	
15	16QAM	25	0	21.81	21.71	21.60				
15	16QAM	25	12	21.81	21.58	21.56				
15	16QAM	25	25	21.81	21.72	21.52		22.5	3	
15	16QAM	50	0	21.57	21.60	21.58				
15	64QAM	1	0	21.50	21.74	21.63				
15	64QAM	1	25	21.58	21.59	21.63		22.5	3	
15	64QAM	1	49	21.54	21.66	21.60				
15	64QAM	25	0	20.86	20.87	20.85				
15	64QAM	25	12	20.77	20.81	20.89		20.5	5	
15	64QAM	25	25	20.71	20.78	20.76				
15	64QAM	50	0	20.53	20.73	20.63				
15	256QAM	1	0	18.72	18.92	18.81		20.5	5	
15	256QAM	1	25	18.73	18.78	18.74				
15	256QAM	1	49	18.78	18.84	18.83				
15	256QAM	25	0	18.69	18.76	18.73		20.5	5	
15	256QAM	25	12	18.57	18.67	18.63				
15	256QAM	25	25	18.65	18.72	18.55				
15	256QAM	50	0	18.72	18.87	18.71				
Channel				2376.5	2376.0	2380.5	Turn-up limit (dB)	APR3 (dB)		
Frequency (MHz)				706.5	710	713.5				
5	QPSK	1	0	23.51	23.65	23.54		25.5	0	
5	QPSK	1	12	23.53	23.55	23.57				
5	QPSK	1	24	23.54	23.64	23.58				
5	QPSK	12	0	22.72	22.83	22.67		24.5	1	
5	QPSK	12	7	22.52	22.74	22.69				
5	QPSK	12	13	22.58	22.72	22.59				
5	QPSK	25	0	22.63	22.72	22.54		24.5	1	
5	16QAM	1	0	22.67	22.60	22.56				
5	16QAM	1	12	22.55	22.66	22.57				
5	16QAM	1	24	22.51	22.59	22.58		23.5	2	
5	16QAM	12	0	21.75	21.84	21.73				
5	16QAM	12	7	21.72	21.67	21.61				
5	16QAM	12	13	21.61	21.69	21.58		23.5	2	
5	16QAM	25	0	21.58	21.69	21.56				
5	64QAM	1	0	21.59	21.72	21.67				
5	64QAM	1	12	21.54	21.60	21.50		22.5	3	
5	64QAM	1	24	21.51	21.61	21.52				
5	64QAM	12	0	20.92	20.90	20.85				
5	64QAM	12	7	20.83	20.76	20.65		22.5	3	
5	64QAM	12	13	20.73	20.75	20.74				
5	64QAM	25	0	20.65	20.69	20.59				
5	256QAM	1	0	18.72	18.90	18.81		20.5	5	
5	256QAM	1	12	18.72	18.85	18.77				
5	256QAM	1	24	18.79	18.81	18.69				
5	256QAM	12	0	18.75	18.72	18.69		20.5	5	
5	256QAM	12	7	18.60	18.70	18.61				
5	256QAM	12	13	18.66	18.73	18.57				
5	256QAM	25	0	18.68	18.93	18.69				

DSI 0 Power for WWAN Other PA

Band 5 Other PA Ant0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 2040	Power Middle Ch. / Freq. 2052	Power High Ch. / Freq. 2060	Tune-up limit (dBm)	MPR (dB)		
Channel				2040	2052	2060				
Frequency (MHz)				829	838.5	844				
10	QPSK	1	0	24.82	24.85	24.77	25.5	0		
10	QPSK	1	25	24.74	24.73	24.69				
10	QPSK	1	49	24.68	24.68	24.61				
10	QPSK	25	0	23.64	23.75	23.66	24.5	1		
10	QPSK	25	12	23.64	23.65	23.64				
10	QPSK	25	25	23.67	23.58	23.65				
10	QPSK	50	0	23.59	23.72	23.62	24.5	1		
10	16QAM	1	0	23.73	23.86	23.73				
10	16QAM	1	25	23.74	23.80	23.71				
10	16QAM	1	49	23.70	23.76	23.67	23.5	2		
10	16QAM	25	0	22.79	22.91	22.78				
10	16QAM	25	12	22.70	22.77	22.71				
10	16QAM	25	25	22.66	22.71	22.66	23.5	2		
10	16QAM	50	0	22.69	22.80	22.70				
10	64QAM	1	0	22.74	22.84	22.71				
10	64QAM	1	25	22.61	22.76	22.70	23.5	2		
10	64QAM	1	49	22.59	22.69	22.62				
10	64QAM	25	0	21.79	21.89	21.79				
10	64QAM	25	12	21.65	21.76	21.69	22.5	3		
10	64QAM	25	25	21.71	21.82	21.72				
10	64QAM	50	0	21.68	21.81	21.73				
10	256QAM	1	0	19.52	19.65	19.58	20.5	5		
10	256QAM	1	25	19.42	19.56	19.47				
10	256QAM	1	49	19.42	19.52	19.41				
10	256QAM	25	0	19.54	19.60	19.52	20.5	5		
10	256QAM	25	12	19.44	19.54	19.39				
10	256QAM	25	25	19.36	19.47	19.33				
10	256QAM	50	0	19.45	19.52	19.37				
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	0	24.73	24.77	24.64	25.5	0		
5	QPSK	1	12	24.61	24.66	24.57				
5	QPSK	1	24	24.61	24.54	24.54				
5	QPSK	12	0	23.57	23.67	23.56	24.5	1		
5	QPSK	12	7	23.58	23.54	23.55				
5	QPSK	12	13	23.54	23.43	23.58				
5	QPSK	25	0	23.46	23.58	23.55	24.5	1		
5	16QAM	1	0	23.64	23.80	23.67				
5	16QAM	1	12	23.62	23.73	23.60				
5	16QAM	1	24	23.62	23.63	23.58	23.5	2		
5	16QAM	12	0	22.67	22.82	22.65				
5	16QAM	12	7	22.63	22.63	22.60				
5	16QAM	12	13	22.54	22.82	22.57	23.5	2		
5	16QAM	25	0	22.63	22.69	22.60				
5	64QAM	1	0	22.68	22.74	22.63				
5	64QAM	1	12	22.51	22.64	22.58	23.5	2		
5	64QAM	1	24	22.47	22.59	22.50				
5	64QAM	12	0	21.67	21.77	21.71				
5	64QAM	12	7	21.58	21.62	21.60	22.5	3		
5	64QAM	12	13	21.66	21.68	21.61				
5	64QAM	25	0	21.60	21.75	21.61				
5	256QAM	1	0	19.45	19.56	19.44	20.5	5		
5	256QAM	1	12	19.34	19.49	19.38				
5	256QAM	1	24	19.33	19.44	19.29				
5	256QAM	12	0	19.46	19.45	19.41	20.5	5		
5	256QAM	12	7	19.33	19.45	19.33				
5	256QAM	12	13	19.27	19.40	19.20				
5	256QAM	25	0	19.32	19.41	19.28				
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	24.77	24.77	24.65	25.5	0		
3	QPSK	1	8	24.65	24.63	24.55				
3	QPSK	1	14	24.54	24.54	24.52				
3	QPSK	8	0	23.50	23.68	23.55	24.5	1		
3	QPSK	8	4	23.50	23.60	23.59				
3	QPSK	8	7	23.56	23.52	23.52				
3	QPSK	15	0	23.51	23.57	23.48	24.5	1		
3	16QAM	1	0	23.66	23.81	23.59				
3	16QAM	1	8	23.60	23.67	23.60				
3	16QAM	1	14	23.62	23.62	23.60	23.5	2		
3	16QAM	8	0	22.71	22.85	22.72				
3	16QAM	8	4	22.56	22.70	22.65				
3	16QAM	8	7	22.55	22.57	22.53	23.5	2		
3	16QAM	15	0	22.58	22.67	22.65				
3	64QAM	1	0	22.60	22.78	22.61				
3	64QAM	1	8	22.52	22.70	22.59	23.5	2		
3	64QAM	1	14	22.45	22.63	22.50				
3	64QAM	8	0	21.68	21.80	21.67				
3	64QAM	8	4	21.51	21.64	21.57	22.5	3		
3	64QAM	8	7	21.57	21.68	21.61				
3	64QAM	15	0	21.60	21.70	21.65				
3	256QAM	1	0	19.42	19.50	19.52	20.5	5		
3	256QAM	1	8	19.32	19.44	19.33				
3	256QAM	1	14	19.35	19.45	19.36				
3	256QAM	8	0	19.47	19.51	19.44	20.5	5		
3	256QAM	8	4	19.39	19.47	19.33				
3	256QAM	8	7	19.27	19.38	19.23				
3	256QAM	15	0	19.34	19.41	19.24				
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				824.7	836.5	848.3				
1.4	QPSK	1	0	24.74	24.78	24.64	25.5	0		
1.4	QPSK	1	3	24.63	24.67	24.54				
1.4	QPSK	1	5	24.61	24.55	24.50				
1.4	QPSK	3	0	23.56	23.68	23.59	24.5	1		
1.4	QPSK	3	1	23.51	23.57	23.52				
1.4	QPSK	3	3	23.55	23.51	23.59				
1.4	QPSK	6	0	23.46	23.62	23.49	24.5	1		
1.4	16QAM	1	0	23.61	23.79	23.58				
1.4	16QAM	1	3	23.66	23.69	23.62				
1.4	16QAM	1	5	23.60	23.65	23.56	24.5	1		
1.4	16QAM	3	0	23.59	23.75	23.64				
1.4	16QAM	3	1	23.64	23.67	23.63				
1.4	16QAM	3	3	23.55	23.63	23.52	23.5	2		
1.4	16QAM	6	0	22.74	22.81	22.69				
1.4	64QAM	1	0	22.63	22.69	22.66				
1.4	64QAM	1	3	22.57	22.58	22.53	23.5	2		
1.4	64QAM	1	5	22.56	22.71	22.56				
1.4	64QAM	3	0	22.64	22.77	22.63				
1.4	64QAM	3	1	22.49	22.66	22.59	20.5	5		
1.4	64QAM	3	3	22.49	22.61	22.48				
1.4	64QAM	6	0	21.70	21.76	21.64				
1.4	256QAM	1	0	19.47	19.55	19.51	20.5	5		
1.4	256QAM	1	3	19.34	19.42	19.38				
1.4	256QAM	1	5	19.30	19.42	19.30				
1.4	256QAM	3	0	19.40	19.49	19.38	20.5	5		
1.4	256QAM	3	1	19.32	19.41	19.27				
1.4	256QAM	3	3	19.22	19.32	19.19				
1.4	256QAM	6	0	19.31	19.42	19.32				



Band 4 Other PA Ant1 DS10													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	16.01	16.08	16.99	17	0					
20	QPSK	1	49	16.07	16.01	16.83							
20	QPSK	1	99	16.87	16.87	16.92							
20	QPSK	50	0	16.94	16.01	16.84							
20	QPSK	50	24	16.87	16.96	16.85	17	0					
20	QPSK	50	50	16.86	16.81	16.89							
20	QPSK	100	0	16.89	16.96	16.92							
20	16QAM	1	0	16.84	16.74	16.70							
20	16QAM	1	49	16.81	16.71	16.84	17	0					
20	16QAM	1	99	16.88	16.87	16.83							
20	16QAM	50	0	16.77	16.81	16.97							
20	16QAM	50	24	16.89	16.87	16.97							
20	16QAM	50	50	16.91	16.78	16.80	17	0					
20	16QAM	100	0	16.88	16.72	16.89							
20	16QAM	1	0	16.75	16.77	16.74							
20	16QAM	1	49	16.89	16.75	16.73							
20	16QAM	1	99	16.80	16.86	16.85	17	0					
20	256QAM	1	99	16.83	16.79	16.80							
20	256QAM	50	24	16.79	16.73	16.88							
20	256QAM	50	50	16.70	16.87	16.87							
20	256QAM	100	0	16.80	16.84	16.86							
20	256QAM	100	0	16.80	16.84	16.86							
Channel													
Frequency (MHz)													
17117.5	17122.5	17130	17130	17117.5	17122.5	17130	17	0					
17117.5	17122.5	17130	17130	17117.5	17122.5	17130							
17117.5	17122.5	17130	17130	17117.5	17122.5	17130							
17117.5	17122.5	17130	17130	17117.5	17122.5	17130							
15	QPSK	1	0	15.93	15.99	16.08	17	0					
15	QPSK	1	37	15.94	15.94	15.98							
15	QPSK	1	74	15.74	15.98	15.68							
15	QPSK	36	0	15.91	15.89	15.79							
15	QPSK	36	18	15.72	15.82	15.47	17	0					
15	QPSK	36	36	15.47	15.84	15.83							
15	QPSK	36	54	15.81	15.86	15.81							
15	16QAM	1	0	15.68	15.87	15.68							
15	16QAM	1	37	15.81	15.63	15.45	17	0					
15	16QAM	1	74	15.52	15.77	15.74							
15	16QAM	36	0	15.74	15.75	15.58							
15	16QAM	36	20	15.52	15.79	15.77							
15	16QAM	36	36	15.84	15.54	15.46	17	0					
15	16QAM	75	0	15.73	15.78	15.53							
15	16QAM	1	0	15.62	15.73	15.86							
15	16QAM	1	7	15.76	15.81	15.81							
15	16QAM	1	74	15.59	15.53	15.68	17	0					
15	16QAM	36	0	15.62	16.47	16.74							
15	16QAM	36	36	15.63	15.85	15.70							
15	16QAM	75	0	15.66	15.61	15.88							
15	256QAM	1	0	15.62	15.64	15.84	17	0					
15	256QAM	1	37	15.48	15.71	15.78							
15	256QAM	1	74	15.48	15.78	15.52							
15	256QAM	36	0	15.68	15.61	15.81							
15	256QAM	36	20	15.58	15.57	15.66	17	0					
15	256QAM	36	36	15.65	15.74	15.83							
15	256QAM	75	0	15.77	15.49	15.68							
15	256QAM	75	0	15.77	15.49	15.68							
Channel													
Frequency (MHz)													
17211	17212	17219	17219	17211	17212	17219	17	0					
17211	17212	17219	17219	17211	17212	17219							
17211	17212	17219	17219	17211	17212	17219							
17211	17212	17219	17219	17211	17212	17219							
10	QPSK	1	0	16.01	16.07	16.87	17	0					
10	QPSK	1	25	16.02	16.08	16.84							
10	QPSK	1	49	16.70	16.80	16.84							
10	QPSK	1	74	16.86	16.87	16.76							
10	QPSK	25	0	16.07	16.02	16.48	17	0					
10	QPSK	25	25	16.07	16.02	16.48							
10	QPSK	25	50	16.54	16.85	16.82							
10	QPSK	100	0	16.80	16.80	16.79							
10	16QAM	1	0	16.81	16.66	16.52	17	0					
10	16QAM	1	25	16.80	16.62	16.48							
10	16QAM	25	0	16.81	16.66	16.52							
10	16QAM	25	25	16.73	16.78	16.53							
10	16QAM	25	50	16.69	16.82	16.53	17	0					
10	16QAM	50	0	16.81	16.64	16.83							
10	16QAM	50	25	16.68	16.84	16.93							
10	16QAM	25	25	16.81	16.62	16.52							
10	16QAM	50	0	16.65	16.95	16.73	17	0					
10	16QAM	1	0	16.65	16.77	16.89							
10	16QAM	1	25	16.68	16.68	16.58							
10	16QAM	1	49	16.79	16.58	16.58							
10	16QAM	25	0	16.61	16.41	16.75	17	0					
10	16QAM	25	25	16.75	16.52	16.47							
10	16QAM	50	0	16.74	16.58	16.84							
10	16QAM	50	25	16.56	16.84	16.84							
10	16QAM	50	0	16.76	16.58	16.78	17	0					
10	16QAM	100	0	16.76	16.58	16.78							
10	256QAM	1	0	16.62	16.60	16.84							
10	256QAM	1	49	16.59	16.56	16.91							
10	256QAM	1	25	16.59	16.56	16.91	17	0					
10	256QAM	25	0	16.72	16.54	16.84							
10	256QAM	25	25	16.55	16.83	16.71							
10	256QAM	25	50	16.70	16.70	16.87							
10	256QAM	50	0	16.74	16.52	16.94	17	0					
10	256QAM	50	25	16.74	16.52	16.94							
10	256QAM	50	50	16.74	16.52	16.94							
10	256QAM	50	50	16.74	16.52	16.94							
Channel													
Frequency (MHz)													
19975	20170	20195	20195	19975	20170	20195	17	0					
19975	20170	20195	20195	19975	20170	20195							
19975	20170	20195	20195	19975	20170	20195							
19975	20170	20195	20195	19975	20170	20195							
5	QPSK	1	0	15.96	15.96	16.02	17	0					
5	QPSK	1	12	15.83	15.71	16.09							
5	QPSK	1	24	15.82	15.60	16.12	17	0					
5	QPSK	12	0	15.98	15.98	15.98							
5	QPSK	12	12	15.79	15.98	15.67							
5	QPSK	12	24	15.79	15.98	15.67							
5	QPSK	12	36	15.71	15.82	15.81	17	0					
5	QPSK	12	48	15.63	15.82	15.87							
5	QPSK	25	0	15.73	15.93	15.79							
5	16QAM	1	0	15.72	15.69	15.84							
5	16QAM	1	12	15.84	15.67	15.83	17	0					
5	16QAM	1	24	15.53	15.84	15.84							
5	16QAM	12	0	15.68	15.73	15.68							
5	16QAM	12	12	15.68	15.88	15.88							
5	16QAM	12	24	15.68	15.66	15.82	17	0					
5	16QAM	25	0	15.67	15.81	15.72							
5	16QAM	25	12	15.68	15.88	15.77							
5	16QAM	1	12	15.68	15.96	15.89							
5	16QAM	1	24	15.86	15.54	15.74	17	0					
5	16QAM	12	0	15.77	15.79	15.77							
5	16QAM	12	15	15.63	15.83	15.82							
5	16QAM	25	0	15.71	15.80	15.77							
5	256QAM	1	0	15.72	15.68	15.81	17	0					
5	256QAM	1	12	15.41	15.84	15.81							
5	256QAM	1	24	15.71	15.86	15.82							
5	256QAM	12	0	15.63	15.80	15.82							
5	256QAM	12	7	15.41	15.46	15.75	17	0					
5	256QAM	12	15	15.70	15.79	15.73							
5	256QAM	25	0	15.78	15.83	15.93							
5	256QAM	25	0	15.78	15.83	15.93							
Channel													
Frequency (MHz)													
17115	17122.5	17130	17130	17115	17122.5	17130	17	0					
17115	17122.5	17130	17130	17115	17122.5	17130							
17115	17122.5	17130	17130	17115	17122.5	17130							
17115	17122.5	17130	17130	17115	17122.5	17130							
3	QPSK	1	0	15.96	16.02	16.88	17	0					
3	QPSK	1	8	15.73	15.77	16.86							
3	QPSK	1	14	15.84	15.84	16.72	17	0					
3	QPSK	6	0	15.83	15.99	15.78							
3	QPSK	6	4	15.84	15.81	16.80							
3	QPSK	6	10	15.79	15.79	16.74							
3	QPSK	15	0	15.85	15.90	15.84	17	0					
3	16QAM	1	0	15.70	15.68	15.69							
3	16QAM	1	8	15.70	15.62	15.69							
3	16QAM	1	14	15.63	15.49	15.77							
3	16QAM	6	0	15.70	15.73	15.49	17	0					
3	16QAM	6	8	15.68	15.83	15.86							
3	16QAM	6	15	15.91	15.76	15.73							
3	16QAM	15	0	15.61	15.96	15.77							
3	16QAM	15	8	15.61	15.86	15.82	17	0					
3	16QAM	15	15	15.73	15.74	15.86							
3	16QAM	8	0	15.74	15.62	15.85							
3	16QAM	8	4	15.74	15.67	15.89							
3	16QAM	15	0	15.63	15.93	15.80	17	0					
3	16QAM	15	8	15.67	15.81	15.83							
3	256QAM	1	0	15.59	15.66	15.92							
3	256QAM	1	8	15.62	15.82	15.78							
3	256QAM	1	14	15.50	15.95	15.47	17	0					
3	256QAM	8	0	15.62	15.61	15.71							
3	256QAM	8	8	15.68	15.79	15.77							
3	256QAM	8	15	15.54	15.78	15.68							
3	256QAM	15	0	15.73	15.67	15.83	17	0					
3	256QAM	15	8										

Band 4 Other PA Ant2																
SW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dB)	MFR (dB)								
Channel				2000	20175	20398										
Frequency (MHz)				1720	1732.5	1745										
20	QPSK	1	0	23.68	23.85	23.77	24.5	0								
20	QPSK	1	49	23.87	23.73	23.81										
20	QPSK	1	99	23.65	23.76	23.66										
20	QPSK	50	0	22.69	22.82	22.75	23.5	1								
20	QPSK	50	24	22.87	22.81	22.86										
20	QPSK	50	50	22.71	22.79	22.74										
20	16QAM	100	0	22.64	22.76	22.68	23.5	1								
20	16QAM	1	0	22.69	22.75	22.67										
20	16QAM	1	49	22.54	22.69	22.62										
20	16QAM	1	99	22.57	22.65	22.58	22.5	2								
20	16QAM	50	0	21.64	21.71	21.58										
20	16QAM	50	24	21.43	21.57	21.49										
20	16QAM	100	0	21.55	21.64	21.54	22.5	2								
20	64QAM	1	0	21.55	21.69	21.56										
20	64QAM	1	49	21.48	21.61	21.49										
20	64QAM	1	99	21.48	21.54	21.42	21.5	3								
20	64QAM	50	0	20.52	20.62	20.50										
20	64QAM	50	24	20.38	20.49	20.35										
20	64QAM	50	50	20.45	20.55	20.49	19.5	5								
20	64QAM	100	0	20.52	20.58	20.51										
20	256QAM	1	0	18.48	18.53	18.50										
20	256QAM	1	49	18.43	18.49	18.40	19.5	5								
20	256QAM	1	99	18.37	18.45	18.39										
20	256QAM	50	0	18.43	18.50	18.43										
20	256QAM	50	24	18.36	18.44	18.30	19.5	5								
20	256QAM	50	50	18.28	18.37	18.29										
20	256QAM	100	0	18.32	18.44	18.36										
Channel				20005	20175	20398	Turn-up time (dB)	MFR (dB)								
Frequency (MHz)				1717.5	1725	1747.5										
15	QPSK	1	0	23.82	23.77	23.84	24.5	0								
15	QPSK	1	37	23.54	23.68	23.56										
15	QPSK	1	74	23.59	23.62	23.57										
15	QPSK	36	8	22.60	22.70	22.62	23.5	1								
15	QPSK	36	20	22.59	22.73	22.57										
15	QPSK	36	39	22.62	22.71	22.67										
15	QPSK	75	0	22.54	22.72	22.57	23.5	1								
15	16QAM	1	0	22.62	22.67	22.58										
15	16QAM	1	37	22.43	22.59	22.55										
15	16QAM	1	74	22.44	22.53	22.44	22.5	2								
15	16QAM	36	0	21.58	21.65	21.53										
15	16QAM	36	20	21.35	21.50	21.39										
15	16QAM	36	39	21.26	21.37	21.33	21.5	3								
15	16QAM	75	0	21.48	21.58	21.43										
15	64QAM	1	0	21.41	21.55	21.42										
15	64QAM	1	37	21.30	21.50	21.35	22.5	2								
15	64QAM	1	74	21.40	21.48	21.34										
15	64QAM	36	0	20.40	20.53	20.36										
15	64QAM	36	20	20.29	20.36	20.22	21.5	3								
15	64QAM	36	39	20.37	20.50	20.41										
15	64QAM	75	0	20.37	20.49	20.40										
15	256QAM	1	0	18.42	18.44	18.44	19.5	5								
15	256QAM	1	37	18.34	18.38	18.27										
15	256QAM	1	74	18.26	18.38	18.31										
15	256QAM	36	0	18.28	18.37	18.30	19.5	5								
15	256QAM	36	20	18.24	18.37	18.30										
15	256QAM	36	39	18.20	18.28	18.16										
15	256QAM	75	0	18.25	18.37	18.22	20000	20175	20398	Turn-up time (dB)	MFR (dB)					
Channel				20000	20175 <th>20398</th>	20398										
Frequency (MHz)				23.82	23.76	23.85										
10	QPSK	1	0	23.58	23.59	23.53	24.5	0								
10	QPSK	1	25	23.55	23.59	23.53										
10	QPSK	1	49	23.54	23.71	23.55										
10	QPSK	25	0	22.60	22.70	22.57	23.5	1								
10	QPSK	25	12	22.55	22.73	22.61										
10	QPSK	25	25	22.63	22.72	22.64										
10	QPSK	50	0	22.58	22.67	22.55	23.5	1								
10	16QAM	1	0	22.61	22.61	22.58										
10	16QAM	1	25	22.44	22.63	22.54										
10	16QAM	1	49	22.49	22.55	22.45	22.5	2								
10	16QAM	25	0	21.49	21.59	21.51										
10	16QAM	25	12	21.31	21.49	21.42										
10	16QAM	25	25	21.22	21.43	21.33	21.5	3								
10	16QAM	50	0	21.45	21.52	21.46										
10	64QAM	1	0	21.42	21.58	21.50										
10	64QAM	1	25	21.35	21.50	21.35	22.5	2								
10	64QAM	1	49	21.36	21.40	21.35										
10	64QAM	25	0	20.39	20.53	20.43										
10	64QAM	25	12	20.29	20.43	20.23	21.5	3								
10	64QAM	25	25	20.38	20.47	20.41										
10	64QAM	50	0	20.43	20.43	20.36										
10	256QAM	1	0	18.39	18.48	18.44	19.5	5								
10	256QAM	1	25	18.30	18.39	18.30										
10	256QAM	1	49	18.26	18.37	18.32										
10	256QAM	25	0	18.36	18.42	18.31	19.5	5								
10	256QAM	25	12	18.23	18.32	18.23										
10	256QAM	25	25	18.18	18.23	18.21										
10	256QAM	50	0	18.20	18.31	18.23	19975	20175	20375	Turn-up time (dB)	MFR (dB)					
Channel				1725.5	1732.5	1752.5										
Frequency (MHz)				23.82	23.78	23.83										
5	QPSK	1	0	23.58	23.66	23.48	24.5	0								
5	QPSK	1	12	23.58	23.66	23.48										
5	QPSK	1	24	23.55	23.62	23.52										
5	QPSK	12	0	22.62	22.70	22.63	23.5	1								
5	QPSK	12	7	22.62	22.74	22.60										
5	QPSK	12	13	22.66	22.75	22.61										
5	QPSK	25	0	22.53	22.65	22.53	23.5	1								
5	16QAM	1	0	22.63	22.65	22.58										
5	16QAM	1	12	22.47	22.64	22.54										
5	16QAM	1	24	22.43	22.59	22.47	22.5	2								
5	16QAM	12	0	21.49	21.58	21.48										
5	16QAM	12	7	21.28	21.48	21.38										
5	16QAM	12	13	21.24	21.46	21.37	21.5	3								
5	16QAM	25	0	21.58	21.58	21.51										
5	16QAM	25	7	21.46	21.58	21.42										
5	64QAM	1	0	21.42	21.50	21.42	22.5	2								
5	64QAM	1	12	21.39	21.50	21.38										
5	64QAM	1	24	21.48	21.48	21.41										
5	64QAM	12	0	20.39	20.49	20.37	21.5	3								
5	64QAM	12	7	20.33	20.42	20.28										
5	64QAM	12	13	20.42	20.42	20.35										
5	64QAM	25	0	20.46	20.47	20.42	19.5	5								
5	64QAM	25	7	18.38	18.44	18.38										
5	64QAM	25	13	18.30	18.42	18.31										
5	256QAM	1	0	18.38	18.44	18.38	19.5	5								
5	256QAM	1	24	18.28	18.38	18.31										
5	256QAM	12	0	18.38	18.40	18.31										
5	256QAM	12	7	18.24	18.29	18.21	19.5	5								
5	256QAM	12	13	18.19	18.23	18.23										
5	256QAM	25	0	18.18	18.36	18.24										
Channel				19975	20175	20398	Turn-up time (dB)	MFR (dB)								
Frequency (MHz)				1710.7	1722.5	1744.3										
14	QPSK	1	0	23.54	23.72	23.66	24.5	0								
14	QPSK	1	14	23.54	23.70	23.58										
14	QPSK	1	28	23.56	23.65	23.54										
14	QPSK	3	0	22.60	22.69	22.62	23.5	1								
14	QPSK	3	8	22.58	22.76	22.61										
14	QPSK	3	15	22.61	22.68	22.54										
14	QPSK	8	0	22.65	22.66	22.61	23.5	1								
14	QPSK	8	8	22.65	22.66	22.61										
14	QPSK	8	15	22.51	22.68	22.54										
14	QPSK	15	0	22.59	22.69	22.60	22.5	2								
14	16QAM	1	0	22.65	22.66	22.54										
14	16QAM	1	8	22.40	22.60	22.54										
14	16QAM	1	14	22.43	22.54	22.47	21.5	3								
14	16QAM	1	28	22.57	22.62	22.50										
14	16QAM	3	0	21.46	21.58	21.41										
14	16QAM	3	8	21.36	21.48	21.41	22.5	2								
14	16QAM	3	15	21.24	21.36	21.37										
14	16QAM	8	0	21.43	21.61	21.51										
14	16QAM	8	8	21.42	21.54	21.42	22.5	2								
14	16QAM	8	15	21.28	21.48	21.38										
14	16QAM	15	0	20.45	20.47	20.36										
14	16QAM	15	8	20.36	20.44	20.36	21.5	3								
14	16QAM	15	15	20.34	20.41	20.36										
14	16QAM	3	0	20.44	20.49	20.42										
14	16QAM	3	8	18.47	18.48	18.47	19.5	5								
14	256QAM	1	0	18.36	18.35	18.31										
14	256QAM	1	14	18.28	18.38	18.36										
14	256QAM	3	0	18.41	18.39	18.39	19.5	5								
14	256QAM	3	8	18.26	18.31	18.28										
14	256QAM	3	15	18.14	18.26	18.17										
14	256QAM	8	0	18.14	18.26	18.17	19.5	5								
14	256QAM	8	8	18.23	18.33	18.33										
14	256QAM	8	15	18.21	18.32	18.26										

Band 4 Other PA Ant3 DS10												
BW (MHz)	Modulation	RIS Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	19.12	19.20	19.13	20.5	0				
20	QPSK	1	49	19.08	19.08	19.04						
20	QPSK	1	99	18.93	18.92	19.05						
20	QPSK	50	0	19.11	19.18	19.15						
20	QPSK	50	24	19.03	19.10	19.10	20.5	0				
20	QPSK	50	50	18.98	18.96	19.02						
20	QPSK	100	0	19.14	19.18	19.11						
20	16QAM	1	0	19.03	19.00	19.00						
20	16QAM	1	49	18.95	18.72	18.69	20.5	0				
20	16QAM	1	99	18.82	18.82	18.90						
20	16QAM	50	0	19.04	19.02	19.01						
20	16QAM	50	24	18.99	18.88	18.82						
20	16QAM	50	50	18.92	18.86	18.98	20.5	0				
20	16QAM	100	0	19.03	19.00	19.00						
20	256QAM	1	49	18.96	18.99	18.95						
20	256QAM	1	99	18.91	18.85	18.92	20.5	0				
20	256QAM	1	0	18.88	18.81	18.92						
20	256QAM	50	24	18.83	18.85	18.91						
20	256QAM	50	50	18.89	18.88	18.83	20.5	0				
20	256QAM	100	0	18.93	18.88	18.99						
Channel												
Frequency (MHz)												
15	QPSK	1	0	19.10	19.19	18.95	20.5	0				
15	QPSK	1	37	18.84	18.92	19.02						
15	QPSK	1	74	18.92	18.83	19.01						
15	QPSK	36	0	18.94	18.99	19.10						
15	QPSK	36	20	18.74	18.94	19.01	20.5	0				
15	QPSK	36	36	18.79	18.84	19.02						
15	QPSK	75	0	18.94	18.99	19.09						
15	16QAM	1	0	18.87	18.88	18.78						
15	16QAM	1	37	18.86	18.81	18.97	20.5	0				
15	16QAM	1	74	18.74	18.74	18.74						
15	16QAM	36	0	18.94	18.74	18.92						
15	16QAM	36	20	18.57	18.83	18.93						
15	16QAM	36	36	18.58	18.87	18.92	20.5	0				
15	16QAM	75	0	18.94	18.85	18.99						
15	16QAM	1	0	18.82	18.70	18.87						
15	16QAM	1	37	18.83	18.69	18.89						
15	16QAM	1	74	18.55	18.51	18.51	20.5	0				
15	16QAM	36	0	18.83	18.81	18.85						
15	16QAM	36	20	18.65	18.66	18.66						
15	16QAM	36	36	18.06	18.07	18.70						
15	16QAM	75	0	18.70	18.77	18.86	20.5	0				
15	256QAM	1	0	18.56	18.66	18.66						
15	256QAM	1	37	18.53	18.58	18.58						
15	256QAM	1	74	18.50	18.52	18.53						
15	256QAM	36	0	18.51	18.51	18.51	20.5	0				
15	256QAM	36	20	18.64	18.67	18.62						
15	256QAM	36	36	18.52	18.59	18.53						
15	256QAM	75	0	18.57	18.52	18.53						
Channel												
Frequency (MHz)												
10	QPSK	1	0	18.98	19.07	19.00	20.5	0				
10	QPSK	1	25	18.83	19.01	19.78						
10	QPSK	1	49	18.82	18.78	19.01						
10	QPSK	25	0	18.97	19.18	19.09						
10	QPSK	25	12	18.91	19.06	19.09	20.5	0				
10	QPSK	25	25	18.84	18.84	18.87						
10	QPSK	50	0	19.13	19.08	19.08						
10	16QAM	1	0	18.82	18.73	18.84						
10	16QAM	1	25	18.87	18.71	18.84	20.5	0				
10	16QAM	1	49	18.80	18.63	18.74						
10	16QAM	25	0	18.80	18.74	18.85						
10	16QAM	25	12	18.58	18.58	18.60						
10	16QAM	25	25	18.51	18.53	18.58	20.5	0				
10	16QAM	50	0	18.81	18.70	18.70						
10	16QAM	1	0	18.60	18.60	18.63						
10	16QAM	1	25	18.54	18.60	18.60						
10	16QAM	1	49	18.58	18.57	18.57	20.5	0				
10	16QAM	25	0	18.73	18.78	18.67						
10	16QAM	25	12	18.45	18.68	18.68						
10	16QAM	25	25	18.64	18.67	18.77						
10	16QAM	50	0	18.61	18.72	18.64	20.5	0				
10	256QAM	1	0	18.55	18.60	18.58						
10	256QAM	1	25	18.53	18.50	18.58						
10	256QAM	1	49	18.53	18.50	18.51						
10	256QAM	25	0	18.53	18.55	18.57	20.5	0				
10	256QAM	25	12	18.56	18.53	18.58						
10	256QAM	25	25	18.56	18.58	18.52						
10	256QAM	50	0	18.52	18.52	18.53						
Channel												
Frequency (MHz)												
5	QPSK	1	0	18.76	19.03	19.00	20.5	0				
5	QPSK	1	12	18.94	19.01	19.02						
5	QPSK	1	24	18.82	18.88	19.01						
5	QPSK	12	0	18.92	19.12	19.08						
5	QPSK	12	7	18.88	19.03	19.09	20.5	0				
5	QPSK	12	13	18.96	18.91	18.98						
5	QPSK	24	0	19.12	19.12	19.08						
5	16QAM	1	0	18.90	18.84	18.70						
5	16QAM	1	12	18.85	18.94	18.84	20.5	0				
5	16QAM	1	24	18.65	18.80	18.80						
5	16QAM	12	0	18.90	19.03	19.00						
5	16QAM	12	7	18.77	18.89	18.96						
5	16QAM	12	13	18.65	18.78	18.78	20.5	0				
5	16QAM	25	0	18.87	18.96	18.95						
5	16QAM	25	0	18.87	18.96	18.95						
5	16QAM	25	7	18.77	18.86	18.84						
5	16QAM	12	0	18.78	18.90	18.80	20.5	0				
5	16QAM	12	7	18.44	18.72	18.70						
5	16QAM	12	13	18.69	18.80	18.80						
5	16QAM	25	0	18.87	18.96	18.72						
5	256QAM	1	0	18.80	18.85	18.84	20.5	0				
5	256QAM	1	12	18.84	18.78	18.71						
5	256QAM	1	24	18.60	18.76	18.68						
5	256QAM	12	0	18.87	18.83	18.82						
5	256QAM	12	7	18.80	18.78	18.75	20.5	0				
5	256QAM	12	13	18.81	18.69	18.69						
5	256QAM	25	0	18.73	18.75	18.77						
Channel												
Frequency (MHz)												
3	QPSK	1	0	18.07	19.11	19.00	20.5	0				
3	QPSK	1	8	18.82	19.06	18.86						
3	QPSK	1	14	18.77	18.78	19.01						
3	QPSK	8	0	18.93	19.04	19.00						
3	QPSK	8	4	18.93	18.90	18.91	20.5	0				
3	QPSK	8	7	18.92	18.94	18.95						
3	QPSK	16	0	19.10	19.01	19.00						
3	16QAM	1	0	18.84	18.76	18.74						
3	16QAM	1	8	18.89	18.82	18.88	20.5	0				
3	16QAM	1	14	18.65	18.75	18.72						
3	16QAM	8	0	18.94	19.03	19.03						
3	16QAM	8	4	18.76	18.78	18.89						
3	16QAM	8	7	18.67	18.78	18.82	20.5	0				
3	16QAM	16	0	18.95	19.01	19.01						
3	16QAM	1	0	18.93	18.95	18.94						
3	16QAM	1	8	18.83	18.90	18.97						
3	16QAM	8	0	18.86	18.84	18.84	20.5	0				
3	16QAM	8	4	18.84	18.87	18.86						
3	16QAM	8	7	18.63	18.72	18.72						
3	16QAM	16	0	18.87	18.73	18.87						
3	16QAM	16	0	18.79	18.82	18.80	20.5	0				
3	16QAM	16	7	18.68	18.68	18.69						
3	16QAM	1	0	18.62	18.78	18.74						
3	256QAM	1	14	18.64	18.77	18.75						
3	256QAM	8	0	18.70	18.84	18.81	20.5	0				
3	256QAM	8	4	18.61	18.79	18.67						
3	256QAM	8	7	18.56	18.67	18.68						
3	256QAM	16	0	18.70	18.74	18.81						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	17.00	17.05	17.05	20.5	0				
1.4	QPSK	1	5	16.94	16.94	16.94						
1.4	QPSK	1	5	16.93	16.94	16.94						
1.4	QPSK	1	5	16.98	16.93	16.96						
1.4	QPSK	3	0	16.97	16.97	16.97	20.5	0				
1.4	QPSK	3	3	16.80	16.85	16.87						
1.4	QPSK	3	3	16.90	16.85	16.87						
1.4	QPSK	3	3	16.85	16.82	16.82						
1.4	16QAM	1	0	16.89	16.72	16.72	20.5	0				
1.4	16QAM	1	3	16.80	16.70	16.76						
1.4	16QAM	3	0	16.90	16.73	16.86						
1.4	16QAM	3	1	16.96	16.93	16.95						
1.4	16QAM	3	1	16.82	16.85	16.86	20.5	0				
1.4	16QAM	6	0	16.83	16.87	16.71						
1.4	16QAM	1	0	16.78	16.83	16.84						
1.4	16QAM	1	3	16.60	16.81	16.84						
1.4	16QAM	1	5	16.78	16.91	16.95	20.5	0				
1.4	16QAM	3	0	16.69	16.87	16.97						
1.4	16QAM	3	3	16.81	16.87	16.81						
1.4	16QAM	3	3	16.80	16.87	16.81						
1.4	256QAM	1	0	16.69	16.83	16.75	20.5	0				
1.4	256QAM	1	3	16.81	16.76	16.76						
1.4	256QAM	3	0	16.89	16.82	16.84						
1.4	256QAM	3	1	16.59	16.75	16.74						
1.4	256QAM	6	0	16.69	16.74	16.76	20.5	0				
1.4	256QAM	6	3	16.69	16.74	16.76						
1.4	256QAM	6	3	16.69	16.74	16.76						
1.4	256QAM	6	3	16.69	16.74	16.76						

Band 4 Other PA Ant4											
SW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dBm)	MFR (dB)			
Channel				20000	20175	20398					
Frequency (MHz)				1720	1732.5	1745					
20	QPSK	1	0	23.07	23.27	23.21	24.5	0			
20	QPSK	1	49	22.91	23.15	23.12					
20	QPSK	1	99	23.03	23.22	23.20					
20	QPSK	50	0	21.98	22.27	22.14	23.5	1			
20	QPSK	50	24	22.00	22.18	22.10					
20	QPSK	50	50	22.05	22.23	22.24					
20	QPSK	100	0	22.00	22.19	22.10	23.5	1			
20	16QAM	1	0	22.03	22.21	22.11					
20	16QAM	1	49	22.14	22.31	22.27					
20	16QAM	1	99	22.09	22.27	22.25	22.5	2			
20	16QAM	50	0	21.05	21.25	21.22					
20	16QAM	50	24	21.08	21.26	21.20					
20	16QAM	50	50	21.04	21.24	21.14	22.5	2			
20	16QAM	100	0	20.99	21.23	21.15					
20	64QAM	1	0	20.93	21.13	21.11					
20	64QAM	1	49	21.00	21.24	21.14	21.5	3			
20	64QAM	1	99	21.00	21.23	21.17					
20	64QAM	50	0	20.93	20.22	20.17					
20	64QAM	50	24	20.08	20.25	20.20	19.5	5			
20	64QAM	50	50	20.05	20.23	20.18					
20	64QAM	100	0	20.01	20.20	20.16					
20	256QAM	1	0	17.81	18.02	17.90	19.5	5			
20	256QAM	1	49	17.87	18.11	18.07					
20	256QAM	1	99	17.83	18.04	17.97					
20	256QAM	50	0	18.06	18.26	18.18	19.5	5			
20	256QAM	50	24	17.93	18.16	18.15					
20	256QAM	50	50	17.94	18.17	18.14					
20	256QAM	100	0	18.00	18.19	18.13					
Channel				20005	20175	20398	Turn-up time (dBm)	MFR (dB)			
Frequency (MHz)				1717.5	1723.5	1747.5					
15	QPSK	1	0	22.83	23.12	23.10	24.5	0			
15	QPSK	1	37	22.80	23.03	23.04					
15	QPSK	1	74	22.80	23.11	23.12					
15	QPSK	36	0	21.80	22.14	22.04	23.5	1			
15	QPSK	36	20	21.89	22.12	22.05					
15	QPSK	36	39	22.00	22.16	22.10					
15	QPSK	75	0	21.88	22.14	22.05	23.5	1			
15	16QAM	1	0	21.97	22.15	22.01					
15	16QAM	1	37	22.02	22.17	22.14					
15	16QAM	1	74	21.94	22.17	22.25	22.5	2			
15	16QAM	36	0	20.97	21.14	21.11					
15	16QAM	36	20	21.01	21.12	21.06					
15	16QAM	36	39	20.90	21.08	21.00	22.5	2			
15	16QAM	75	0	20.92	21.17	21.02					
15	64QAM	1	0	20.82	21.02	21.05					
15	64QAM	1	37	20.90	21.15	21.00	21.5	3			
15	64QAM	1	74	20.90	21.16	21.11					
15	64QAM	36	0	19.94	20.09	20.09					
15	64QAM	36	20	19.97	20.16	20.05	19.5	5			
15	64QAM	36	39	19.98	20.08	20.03					
15	64QAM	75	0	19.92	20.07	20.06					
15	256QAM	1	0	17.68	17.90	17.80	19.5	5			
15	256QAM	1	37	17.74	18.04	17.97					
15	256QAM	1	74	17.76	17.92	17.90					
15	256QAM	36	0	17.97	18.11	18.02	19.5	5			
15	256QAM	36	20	17.82	18.03	18.01					
15	256QAM	36	39	17.89	18.11	18.02					
15	256QAM	75	0	17.90	18.08	18.05					
Channel				20000	20175	20398	Turn-up time (dBm)	MFR (dB)			
Frequency (MHz)				1715	1723.5	1750					
10	QPSK	1	0	23.02	23.16	23.11	24.5	0			
10	QPSK	1	25	22.78	23.03	23.01					
10	QPSK	1	49	22.98	23.08	23.12					
10	QPSK	25	0	21.84	22.06	22.05	23.5	1			
10	QPSK	25	12	21.94	22.06	22.05					
10	QPSK	25	25	21.98	22.20	22.12					
10	QPSK	50	0	21.85	22.04	21.98	23.5	1			
10	16QAM	1	0	21.98	22.08	22.02					
10	16QAM	1	25	22.00	22.20	22.13					
10	16QAM	1	49	22.04	22.21	22.18	22.5	2			
10	16QAM	25	0	20.95	21.19	21.19					
10	16QAM	25	12	20.99	21.21	21.07					
10	16QAM	25	25	20.97	21.11	21.01	21.5	3			
10	16QAM	50	0	20.91	21.15	21.08					
10	64QAM	1	0	20.83	21.06	21.01					
10	64QAM	1	25	20.91	21.18	21.04	22.5	2			
10	64QAM	1	49	20.94	21.16	21.10					
10	64QAM	25	0	19.90	20.07	20.10					
10	64QAM	25	12	19.94	20.18	20.07	21.5	3			
10	64QAM	25	25	19.92	20.15	20.07					
10	64QAM	50	0	19.95	20.13	20.02					
10	256QAM	1	0	17.67	17.92	17.89	19.5	5			
10	256QAM	1	25	17.73	18.03	17.96					
10	256QAM	1	49	17.72	17.90	17.85					
10	256QAM	25	0	17.91	18.14	18.02	19.5	5			
10	256QAM	25	12	17.86	18.08	18.00					
10	256QAM	25	25	17.81	18.10	18.06					
10	256QAM	50	0	17.91	18.09	18.05					
Channel				19975	20175	20375	Turn-up time (dBm)	MFR (dB)			
Frequency (MHz)				1722.5	1723.5	1752.5					
5	QPSK	1	0	22.98	23.14	23.11	24.5	0			
5	QPSK	1	12	22.83	23.06	23.03					
5	QPSK	1	24	22.96	23.16	23.09					
5	QPSK	12	0	21.83	22.17	22.05	23.5	1			
5	QPSK	12	7	21.91	22.12	22.05					
5	QPSK	12	13	21.98	22.15	22.12					
5	QPSK	25	0	21.85	22.08	21.98	23.5	1			
5	16QAM	1	0	21.93	22.07	21.97					
5	16QAM	1	12	22.03	22.18	22.14					
5	16QAM	1	24	21.99	22.15	22.11	22.5	2			
5	16QAM	12	0	20.96	21.17	21.13					
5	16QAM	12	7	20.96	21.16	21.08					
5	16QAM	12	13	20.96	21						

Band 12 Other PA Ant0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mask Ch./Freq.	Power High Ch./Freq.	Time-up Int. (dB)	Margin (dB)			
Channel				23005	23095	23138					
Frequency (MHz)				704	707.5	711					
10	QPSK	1	0	24.00	24.50	24.44	25.5	0			
10	QPSK	1	25	24.37	24.44	24.40					
10	QPSK	1	49	24.40	24.50	24.45					
10	QPSK	25	0	23.70	23.74	23.63	24.5	1			
10	QPSK	25	12	23.03	23.07	23.01					
10	QPSK	25	25	23.49	23.84	23.58					
10	HQAM	1	0	23.05	23.09	23.05	24.5	1			
10	HQAM	1	49	23.47	23.62	23.55					
10	HQAM	1	25	23.59	23.88	23.62					
10	HQAM	1	49	23.54	23.57	23.48	23.5	2			
10	HQAM	25	0	22.55	22.65	22.60					
10	HQAM	25	12	22.61	22.85	22.52					
10	HQAM	25	25	22.44	22.51	22.44	23.5	2			
10	HQAM	50	0	22.84	22.91	22.86					
10	64QAM	1	0	22.54	22.66	22.54					
10	64QAM	1	25	22.60	22.68	22.54	22.5	3			
10	64QAM	1	49	22.70	22.76	22.61					
10	64QAM	25	0	21.48	21.59	21.50					
10	64QAM	25	12	21.81	21.96	21.84	22.5	3			
10	64QAM	25	25	21.60	21.75	21.65					
10	64QAM	50	0	21.90	22.04	21.92					
10	256QAM	1	0	20.00	20.15	20.09	20.5	5			
10	256QAM	1	25	19.61	19.92	19.85					
10	256QAM	1	49	20.05	20.17	20.05					
10	256QAM	25	0	19.47	19.55	19.52	20.5	5			
10	256QAM	25	12	19.80	19.84	19.70					
10	256QAM	25	25	19.60	19.72	19.67					
10	256QAM	50	0	19.35	19.59	19.45					
Channel				23005	23095	23168	Time-up Int. (dB)	Margin (dB)			
Frequency (MHz)				701.5	707.5	713.0					
5	QPSK	1	0	24.42	24.43	24.35	25.5	0			
5	QPSK	1	12	24.34	24.34	24.33					
5	QPSK	1	24	24.27	24.38	24.37					
5	QPSK	12	0	23.57	23.63	23.53	24.5	1			
5	QPSK	12	7	23.01	23.43	23.54					
5	QPSK	12	13	23.39	23.55	23.50					
5	QPSK	25	0	23.44	23.56	23.49	24.5	1			
5	HQAM	1	0	23.38	23.53	23.45					
5	HQAM	1	12	23.47	23.61	23.58					
5	HQAM	1	24	23.59	23.51	23.56	23.5	2			
5	HQAM	12	0	22.48	22.54	22.55					
5	HQAM	12	7	22.49	22.51	22.46					
5	HQAM	12	13	22.51	22.48	22.41	22.5	3			
5	HQAM	25	0	22.74	22.85	22.73					
5	64QAM	1	0	22.45	22.62	22.41					
5	64QAM	1	12	22.60	22.65	22.46	20.5	5			
5	64QAM	1	24	22.50	22.63	22.54					
5	64QAM	12	0	21.42	21.55	21.41					
5	64QAM	12	7	21.71	21.80	21.70	22.5	3			
5	64QAM	12	13	21.53	21.68	21.51					
5	64QAM	25	0	21.85	21.97	21.77					
5	256QAM	1	0	19.85	19.90	19.80	20.5	5			
5	256QAM	1	12	19.78	19.81	19.75					
5	256QAM	1	24	19.97	20.14	19.91					
5	256QAM	12	0	19.41	19.42	19.36	20.5	5			
5	256QAM	12	7	19.68	19.74	19.57					
5	256QAM	12	13	19.45	19.59	19.61					
5	256QAM	25	0	19.71	19.85	19.78					
Channel				23005	23095	23168	Time-up Int. (dB)	Margin (dB)			
Frequency (MHz)				700.5	707.5	714.5					
3	QPSK	1	0	24.40	24.52	24.41	25.5	0			
3	QPSK	1	8	24.34	24.34	24.34					
3	QPSK	1	14	24.36	24.40	24.36					
3	QPSK	8	0	23.46	23.66	23.49	24.5	1			
3	QPSK	8	4	23.05	23.09	23.03					
3	QPSK	8	7	23.39	23.52	23.53					
3	QPSK	8	0	23.50	23.62	23.48	24.5	1			
3	HQAM	1	0	23.38	23.49	23.40					
3	HQAM	1	8	23.47	23.53	23.55					
3	HQAM	1	14	23.45	23.43	23.35	23.5	2			
3	HQAM	8	0	22.45	22.58	22.50					
3	HQAM	8	4	22.47	22.59	22.48					
3	HQAM	8	7	22.53	22.40	22.40	22.5	3			
3	HQAM	16	0	22.77	22.77	22.70					
3	64QAM	1	0	22.44	22.67	22.41					
3	64QAM	1	8	22.55	22.58	22.30	20.5	5			
3	64QAM	1	14	22.59	22.73	22.52					
3	64QAM	8	0	21.44	21.55	21.43					
3	64QAM	8	4	21.77	21.83	21.78	20.5	5			
3	64QAM	8	7	21.49	21.61	21.52					
3	64QAM	16	0	21.79	22.00	21.83					
3	256QAM	1	0	19.85	20.01	19.80	20.5	5			
3	256QAM	1	8	19.67	19.80	19.77					
3	256QAM	1	14	19.96	20.04	19.92					
3	256QAM	8	0	19.43	19.50	19.42	20.5	5			
3	256QAM	8	4	19.72	19.70	19.59					
3	256QAM	8	7	19.48	19.59	19.52					
3	256QAM	16	0	19.81	19.81	19.81					
Channel				23017	23095	23173	Time-up Int. (dB)	Margin (dB)			
Frequency (MHz)				699.7	707.5	715.3					
1.4	QPSK	1	0	24.41	24.43	24.33	25.5	0			
1.4	QPSK	1	3	24.34	24.38	24.25					
1.4	QPSK	1	5	24.35	24.41	24.38					
1.4	QPSK	3	0	24.40	24.44	24.36	24.5	1			
1.4	QPSK	3	1	24.25	24.35	24.30					
1.4	QPSK	3	3	24.30	24.41	24.32					
1.4	QPSK	8	0	23.08	23.09	23.54	24.5	1			
1.4	HQAM	1	0	23.51	23.54	23.53					
1.4	HQAM	1	3	23.39	23.52	23.52					
1.4	HQAM	1	5	23.45	23.59	23.47	23.5	2			
1.4	HQAM	3	0	23.42	23.48	23.47					
1.4	HQAM	3	1	23.00	23.59	23.56					
1.4	HQAM	3	3	23.44	23.48	23.35	20.5	5			
1.4	HQAM	6	0	22.61	22.61	22.47					
1.4	HQAM	1	0	22.40	22.54	22.44					
1.4	HQAM	1	3	22.40	22.43	22.35	23.5	2			
1.4	64QAM	1	5	22.45	22.50	22.42					
1.4	64QAM	3	0	22.47	22.59	22.47					
1.4	64QAM	3	1	22.50	22.60	22.47	22.5	3			
1.4	64QAM	3	3	22.59	22.62	22.55					
1.4	HQAM	6	0	21.56	21.62	21.59					
1.4	256QAM	1	0	19.89	19.98	19.84	20.5	5			
1.4	256QAM	1	3	19.69	19.89	19.74					
1.4	256QAM	1	5	19.91	20.03	19.93	20.5	5			
1.4	256QAM	1	7	19.46	19.66	19.60					
1.4	256QAM	3	0	19.70	19.73	19.57	20.5	5			
1.4	256QAM	3	1	19.56	19.68	19.58					
1.4	256QAM	3	3	19.76	19.78	19.72	20.5	5			
1.4	256QAM	3	5	19.60	19.68	19.62					

Band 17 other PA Ant0											
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Total up limit [dBm]	MPE [dB]			
Channel				23.90	23.90	23.90					
Frequency [MHz]				709	710	711					
10	QPSK	1	0	24.43	24.51	24.46	25.5	0			
10	QPSK	1	25	24.31	24.40	24.36					
10	QPSK	1	49	24.38	24.47	24.33					
10	QPSK	25	0	23.64	23.68	23.67	24.5	1			
10	QPSK	25	12	23.45	23.59	23.48					
10	QPSK	25	25	23.34	23.46	23.34					
10	QPSK	50	0	23.48	23.59	23.49	24.5	1			
10	16QAM	1	0	23.46	23.59	23.42					
10	16QAM	1	25	23.29	23.42	23.32					
10	16QAM	1	49	23.21	23.34	23.26	23.5	2			
10	16QAM	25	0	22.58	22.73	22.62					
10	16QAM	25	12	22.69	22.72	22.59					
10	16QAM	25	25	22.65	22.73	22.62	23.5	2			
10	16QAM	50	0	22.67	22.79	22.73					
10	16QAM	1	0	22.43	22.59	22.41					
10	16QAM	1	25	22.50	22.54	22.46	23.5	2			
10	16QAM	1	49	22.26	22.35	22.21					
10	16QAM	25	0	21.59	21.66	21.59					
10	16QAM	25	12	21.68	21.77	21.66	22.5	3			
10	16QAM	25	25	21.50	21.58	21.46					
10	16QAM	50	0	21.59	21.66	21.62					
10	256QAM	1	0	19.82	19.82	19.81	20.5	5			
10	256QAM	1	25	19.83	19.89	19.78					
10	256QAM	1	49	19.59	19.70	19.68					
10	256QAM	25	0	19.47	19.58	19.45	20.5	5			
10	256QAM	25	12	19.52	19.60	19.58					
10	256QAM	25	25	19.50	19.54	19.43					
10	256QAM	50	0	19.50	19.67	19.55					
Channel				23.95	23.95	23.95	Total up limit [dBm]	MPE [dB]			
Frequency [MHz]				708.5	710	713.5					
5	QPSK	1	0	24.39	24.46	24.43	25.5	0			
5	QPSK	1	12	24.24	24.36	24.26					
5	QPSK	1	24	24.35	24.36	24.22					
5	QPSK	12	0	23.59	23.61	23.49	24.5	1			
5	QPSK	12	7	23.40	23.47	23.39					
5	QPSK	12	13	23.28	23.42	23.20					
5	QPSK	25	0	23.44	23.56	23.39	24.5	1			
5	16QAM	1	0	23.32	23.48	23.31					
5	16QAM	1	12	23.20	23.32	23.28					
5	16QAM	1	24	23.07	23.29	23.22	23.5	2			
5	16QAM	12	0	22.54	22.61	22.51					
5	16QAM	12	7	22.68	22.59	22.54					
5	16QAM	12	13	22.58	22.59	22.51	23.5	2			
5	16QAM	25	0	22.57	22.67	22.63					
5	16QAM	1	0	22.38	22.37	22.37					
5	16QAM	1	12	22.41	22.46	22.37	23.5	2			
5	16QAM	1	24	22.22	22.27	22.15					
5	16QAM	12	0	21.44	21.58	21.53					
5	16QAM	12	7	21.60	21.70	21.64	22.5	3			
5	16QAM	12	13	21.37	21.51	21.35					
5	16QAM	25	0	21.44	21.57	21.49					
5	256QAM	1	0	19.76	19.79	19.65	20.5	5			
5	256QAM	1	12	19.72	19.75	19.66					
5	256QAM	1	24	19.48	19.59	19.53					
5	256QAM	12	0	19.37	19.48	19.35	20.5	5			
5	256QAM	12	7	19.39	19.47	19.43					
5	256QAM	12	13	19.44	19.48	19.33					
5	256QAM	25	0	19.56	19.63	19.52					

Band 12 Other PA Ant1											
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Transp- limit (dBm)	MPE (dB)			
Channel				2360.0	2369.5	2379.0					
Frequency (MHz)				704	707.5	711					
10	QPSK	1	0	23.69	23.74	23.67			25.5	0	
10	QPSK	1	25	23.59	23.66	23.61					
10	QPSK	1	49	23.67	23.61	23.62					
10	QPSK	25	0	22.66	22.76	22.67			24.5	1	
10	QPSK	25	12	22.56	22.70	22.69					
10	QPSK	25	25	22.65	22.65	22.69					
10	QPSK	50	0	22.59	22.72	22.67			24.5	1	
10	16QAM	1	0	22.58	22.67	22.55					
10	16QAM	1	25	22.53	22.61	22.59					
10	16QAM	1	49	22.54	22.57	22.53			23.5	2	
10	16QAM	25	0	21.73	21.81	21.71					
10	16QAM	25	12	21.70	21.73	21.65					
10	16QAM	25	25	21.63	21.77	21.66			23.5	2	
10	16QAM	50	0	21.68	21.71	21.52					
10	64QAM	1	0	21.65	21.79	21.70					
10	64QAM	1	25	21.59	21.73	21.65			22.5	3	
10	64QAM	1	49	21.65	21.69	21.64					
10	64QAM	25	0	20.90	20.91	20.84					
10	64QAM	25	12	20.82	20.89	20.76			20.5	5	
10	64QAM	25	25	20.91	20.91	20.84					
10	64QAM	50	0	20.68	20.83	20.72					
10	256QAM	1	0	18.85	18.96	18.92			20.5	5	
10	256QAM	1	25	18.83	18.93	18.89					
10	256QAM	1	49	18.85	18.88	18.74					
10	256QAM	25	0	18.78	18.67	18.84			20.5	5	
10	256QAM	25	12	18.68	18.77	18.72					
10	256QAM	25	25	18.74	18.63	18.69					
10	256QAM	50	0	18.65	18.91	18.82					
Channel				2363.5	2369.5	2379.0					
Frequency (MHz)				703.5	707.5	713.5					
5	QPSK	1	0	23.62	23.67	23.68			25.5	0	
5	QPSK	1	12	23.67	23.58	23.66					
5	QPSK	1	24	23.67	23.55	23.62					
5	QPSK	12	0	22.55	22.67	22.64			24.5	1	
5	QPSK	12	7	22.51	22.64	22.69					
5	QPSK	12	13	22.51	22.62	22.62					
5	QPSK	25	0	22.55	22.67	22.63			24.5	1	
5	16QAM	1	0	22.57	22.55	22.58					
5	16QAM	1	12	22.51	22.55	22.59					
5	16QAM	1	24	22.59	22.54	22.59			23.5	2	
5	16QAM	12	0	21.65	21.74	21.63					
5	16QAM	12	7	21.61	21.63	21.59					
5	16QAM	12	13	21.63	21.66	21.58			23.5	2	
5	16QAM	25	0	21.53	21.58	21.51					
5	64QAM	1	0	21.54	21.71	21.58					
5	64QAM	1	12	21.55	21.54	21.64			22.5	3	
5	64QAM	1	24	21.51	21.61	21.55					
5	64QAM	12	0	20.77	20.90	20.83					
5	64QAM	12	7	20.69	20.79	20.65			20.5	5	
5	64QAM	12	13	20.67	20.85	20.72					
5	64QAM	25	0	20.56	20.80	20.60					
5	256QAM	1	0	18.71	18.90	18.73			20.5	5	
5	256QAM	1	12	18.74	18.82	18.61					
5	256QAM	1	24	18.73	18.77	18.65					
5	256QAM	12	0	18.64	18.70	18.77			20.5	5	
5	256QAM	12	7	18.59	18.67	18.63					
5	256QAM	12	13	18.62	18.74	18.55					
5	256QAM	25	0	18.79	18.80	18.74					
Channel				2365.5	2369.5	2379.0					
Frequency (MHz)				703.5	707.5	714.5					
3	QPSK	1	0	23.64	23.63	23.60			25.5	0	
3	QPSK	1	8	23.57	23.56	23.58					
3	QPSK	1	14	23.53	23.57	23.59					
3	QPSK	8	0	22.52	22.66	22.62			24.5	1	
3	QPSK	8	4	22.58	22.57	22.51					
3	QPSK	8	7	22.56	22.54	22.55					
3	QPSK	16	0	22.50	22.58	22.67			24.5	1	
3	16QAM	1	0	22.59	22.54	22.59					
3	16QAM	1	8	22.58	22.51	22.60					
3	16QAM	1	14	22.53	22.59	22.61			23.5	2	
3	16QAM	8	0	21.59	21.75	21.65					
3	16QAM	8	4	21.58	21.67	21.61					
3	16QAM	8	7	21.56	21.72	21.65			23.5	2	
3	16QAM	16	0	21.55	21.63	21.54					
3	64QAM	1	0	21.60	21.72	21.63					
3	64QAM	1	8	21.55	21.64	21.60			22.5	3	
3	64QAM	1	14	21.59	21.64	21.57					
3	64QAM	8	0	20.79	20.89	20.79					
3	64QAM	8	4	20.77	20.71	20.72			20.5	5	
3	64QAM	8	7	20.74	20.79	20.73					
3	64QAM	16	0	20.63	20.75	20.61					
3	256QAM	1	0	18.72	18.83	18.79			20.5	5	
3	256QAM	1	8	18.76	18.78	18.79					
3	256QAM	1	14	18.79	18.84	18.61					
3	256QAM	8	0	18.70	18.62	18.72			20.5	5	
3	256QAM	8	4	18.68	18.71	18.61					
3	256QAM	8	7	18.62	18.79	18.63					
3	256QAM	16	0	18.73	18.67	18.72					
Channel				2367.7	2369.5	2379.3					
Frequency (MHz)				699.7	707.5	716.3					
1.4	QPSK	1	0	23.64	23.55	23.58			25.5	0	
1.4	QPSK	1	3	23.52	23.51	23.55					
1.4	QPSK	1	5	23.58	23.70	23.65					
1.4	QPSK	3	0	23.55	23.63	23.59			24.5	1	
1.4	QPSK	3	1	23.59	23.58	23.59					
1.4	QPSK	3	3	23.52	23.52	23.54					
1.4	QPSK	8	0	22.58	22.72	22.61			24.5	1	
1.4	16QAM	1	0	22.52	22.68	22.59					
1.4	16QAM	1	3	22.64	22.51	22.67					
1.4	16QAM	1	5	22.54	22.60	22.53			23.5	2	
1.4	16QAM	3	0	22.84	22.57	22.61					
1.4	16QAM	3	1	22.51	22.57	22.60					
1.4	16QAM	3	3	22.56	22.52	22.59			22.5	3	
1.4	16QAM	8	0	21.66	21.75	21.68					
1.4	64QAM	1	0	21.59	21.59	21.52					
1.4	64QAM	1	3	21.59	21.67	21.52			23.5	2	
1.4	64QAM	1	5	21.84	21.58	21.52					
1.4	64QAM	3	0	21.55	21.71	21.60					
1.4	64QAM	3	1	21.50	21.68	21.63			22.5	3	
1.4	64QAM	3	3	21.53	21.58	21.53					
1.4	64QAM	8	0	20.74	20.82	20.66					
1.4	256QAM	1	0	18.75	18.87	18.87			20.5	5	
1.4	256QAM	1	3	18.77	18.87	18.79					
1.4	256QAM	1	5	18.79	18.74	18.61					
1.4	256QAM	3	0	18.70	18.73	18.74			20.5	5	
1.4	256QAM	3	1	18.65	18.67	18.60					
1.4	256QAM	3	3	18.66	18.75	18.59					
1.4	256QAM	8	0	18.79	18.78	18.75					

Band 17 Other PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	APRS (dB)	
Channel				-23.90	-23.90	-23.90			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	23.97	23.97	23.99			
10	QPSK	1	20	23.94	23.95	23.91	20.5	0	
10	QPSK	1	40	23.95	23.99	23.91			
10	QPSK	25	0	22.60	22.60	22.58			
10	QPSK	25	12	22.63	22.59	22.55			
10	QPSK	25	25	22.63	22.58	22.56			
10	QPSK	50	0	22.67	22.61	22.54			
10	16QAM	1	0	22.60	22.59	22.59			
10	16QAM	1	20	22.67	22.63	22.61	24.5	1	
10	16QAM	1	40	22.63	22.59	22.52			
10	16QAM	25	0	21.61	21.71	21.66			
10	16QAM	25	12	21.61	21.58	21.56			
10	16QAM	25	25	21.61	21.72	21.62			
10	16QAM	50	0	21.67	21.60	21.58			
10	64QAM	1	0	21.60	21.74	21.63			
10	64QAM	1	20	21.58	21.59	21.63			
10	64QAM	1	40	21.64	21.66	21.60	23.5	2	
10	64QAM	25	0	20.86	20.87	20.85			
10	64QAM	25	12	20.71	20.81	20.86			
10	64QAM	25	25	20.71	20.78	20.76			
10	64QAM	50	0	20.63	20.73	20.63			
10	256QAM	1	0	18.72	18.90	18.81			
10	256QAM	1	20	18.73	18.78	18.74	20.5	5	
10	256QAM	1	40	18.78	18.84	18.83			
10	256QAM	25	0	18.69	18.76	18.73			
10	256QAM	25	12	18.67	18.67	18.63			
10	256QAM	25	25	18.66	18.72	18.65			
10	256QAM	50	0	18.72	18.87	18.71			
Channel				2376.5	2376.0	2380.5	Tune-up limit (dBm)	APRS (dB)	
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	23.61	23.65	23.64			
5	QPSK	1	12	23.63	23.66	23.67	20.5	0	
5	QPSK	1	24	23.64	23.64	23.58			
5	QPSK	12	0	22.72	22.83	22.67			
5	QPSK	12	7	22.62	22.74	22.69			
5	QPSK	12	19	22.68	22.72	22.59			
5	QPSK	20	0	22.68	22.72	22.56			
5	16QAM	1	0	22.67	22.60	22.56			
5	16QAM	1	12	22.65	22.66	22.67	24.5	1	
5	16QAM	1	24	22.51	22.59	22.58			
5	16QAM	12	0	21.75	21.84	21.73			
5	16QAM	12	7	21.72	21.67	21.61			
5	16QAM	12	15	21.61	21.69	21.66	23.5	2	
5	16QAM	25	0	21.68	21.69	21.56			
5	64QAM	1	0	21.59	21.72	21.67			
5	64QAM	1	12	21.54	21.60	21.60	20.5	2	
5	64QAM	1	24	21.51	21.61	21.62			
5	64QAM	12	0	20.92	20.90	20.85			
5	64QAM	12	7	20.83	20.76	20.65			
5	64QAM	12	19	20.73	20.75	20.74			
5	64QAM	25	0	20.65	20.69	20.59			
5	256QAM	1	0	18.73	18.90	18.83			
5	256QAM	1	12	18.72	18.85	18.77	20.5	5	
5	256QAM	1	24	18.79	18.81	18.69			
5	256QAM	12	0	18.75	18.72	18.69			
5	256QAM	12	7	18.60	18.70	18.61			
5	256QAM	12	19	18.66	18.73	18.67			
5	256QAM	25	0	18.68	18.63	18.60	20.5	5	



DSI 0 Power for WWAN EN-DC Other PA

Band 5 Other PA Ant1 DSI0 ENDC										Band 66 Other PA Ant1 DSI0 ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq. 826.5	Power Margin Ch. / Freq. 826.5	Power Nbr. Ch. / Freq. 844	Tune-up Int. (dBm)	MPR (dB)		BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq. 1710.2	Power Margin Ch. / Freq. 1710.2	Power Nbr. Ch. / Freq. 1776.5	Tune-up Int. (dBm)	MPR (dB)	
Channel Frequency (MHz)										Channel Frequency (MHz)									
10	QPSK	1	0	19.40	19.46	19.32				20	QPSK	1	0	14.61	14.62	14.57			
10	QPSK	1	25	19.19	19.25	19.29	21	0		20	QPSK	1	49	14.56	14.51	14.50	15.5	0	
10	QPSK	1	49	19.27	19.25	19.31				20	QPSK	1	99	14.59	14.53	14.52			
10	QPSK	25	0	19.26	19.45	19.24				20	QPSK	50	0	14.59	14.59	14.36			
10	QPSK	25	12	19.18			21	0		20	QPSK	50	24	14.40	14.46	14.43	15.5	0	
10	QPSK	25	25	19.24	19.26	19.27				20	QPSK	50	50	14.43	14.32	14.50			
10	16QAM	1	0	19.36	19.38	19.31				20	16QAM	100	0	14.36	14.52	14.48			
10	16QAM	1	25	19.42	19.43	19.28				20	16QAM	1	49	14.58	14.48	14.55			
10	16QAM	1	49	19.30	19.01	19.30	21	0		20	16QAM	1	99	14.23	14.34	14.35	15.5	0	
10	16QAM	25	0	19.39	19.41	19.35				20	16QAM	50	0	14.49	14.37	14.52			
10	16QAM	25	12	19.35	19.37	19.37	21	0		20	16QAM	50	24	14.23	14.35	14.52	15.5	0	
10	16QAM	25	25	19.10	19.38	19.18				20	16QAM	50	50	14.53	14.34	14.30			
10	64QAM	1	0	19.25	19.43	19.34				20	64QAM	1	0	14.16	14.41	14.36			
10	64QAM	1	25	19.38	19.41	19.25	21	0		20	64QAM	1	49	14.43	14.27	14.44	15.5	0	
10	64QAM	1	49	19.26	19.35	19.35				20	64QAM	1	99	14.51	14.52	14.36			
10	64QAM	25	0	19.39	19.06	19.39				20	64QAM	50	0	14.35	14.34	14.58			
10	64QAM	25	12	19.26	19.30	19.27	21	0		20	64QAM	50	24	14.50	14.44	14.65	15.5	0	
10	64QAM	25	25	19.32	19.35	19.35				20	64QAM	100	0	14.61	14.16	14.52			
10	256QAM	1	0	18.89	18.81	18.87				20	256QAM	1	0	14.24	14.28	14.28			
10	256QAM	1	25	18.43	18.72	18.62	20.5	0.5		20	256QAM	1	49	14.57	14.39	14.43	15.5	0	
10	256QAM	1	49	18.63	18.68	18.61				20	256QAM	1	99	14.29	14.53	14.44			
10	256QAM	25	0	18.72	18.78	18.72				20	256QAM	50	0	14.69	14.37	14.53			
10	256QAM	25	12	18.41	18.72	18.46	20.5	0.5		20	256QAM	50	24	14.35	14.27	14.41	15.5	0	
10	256QAM	25	25	18.61	18.65	18.60				20	256QAM	50	50	14.39	14.54	14.49			
10	256QAM	50	0	18.65	18.69	18.62				20	256QAM	100	0	14.63	14.43	14.40			
Channel Frequency (MHz)										Channel Frequency (MHz)									
5	QPSK	1	0	19.34	19.23	19.31				15	QPSK	1	0	14.52	14.52	14.56			
5	QPSK	1	24	19.13	19.18	19.30	21	0		15	QPSK	1	49	14.49	14.50	14.36	15.5	0	
5	QPSK	1	24	19.20	19.19	19.18				15	QPSK	1	24	14.30	14.41	14.41			
5	QPSK	12	0	19.09	19.31	19.09				15	QPSK	36	0	14.48	14.49	14.28			
5	QPSK	12	13	19.07	19.20	19.20	21	0		15	QPSK	36	36	14.25	14.28	14.36	15.5	0	
5	QPSK	12	13	19.17	19.18	19.23				15	QPSK	36	36	14.27	14.31	14.45			
5	16QAM	1	0	19.26	19.22	19.19				15	16QAM	1	49	14.19	14.50	14.34			
5	16QAM	1	25	19.09	19.35	19.15	21	0		15	16QAM	1	49	14.38	14.48	14.52	15.5	0	
5	16QAM	1	12	19.07	19.18	19.06				15	16QAM	1	37	14.25	14.27	14.17			
5	16QAM	1	24	19.08	19.03	19.06				15	16QAM	1	74	14.16	14.26	14.19			
5	16QAM	12	0	19.26	19.05	19.26				15	16QAM	36	25	14.13	14.29	14.58	15.5	0	
5	16QAM	12	7	19.25	19.26	19.17	21	0		15	16QAM	36	50	14.43	14.16	14.19			
5	16QAM	12	13	19.17	19.14	19.14				15	16QAM	36	50	14.08	14.41	14.53			
5	64QAM	1	0	19.17	19.28	19.26				15	64QAM	1	0	14.32	14.25	14.37			
5	64QAM	1	12	19.23	19.40	19.07	21	0		15	64QAM	1	37	14.45	14.39	14.35	15.5	0	
5	64QAM	1	24	19.17	19.21	19.14				15	64QAM	1	24	14.43	14.44	14.44			
5	64QAM	12	0	19.17	19.41	19.20				15	64QAM	36	0	14.30	14.26	14.42			
5	64QAM	12	7	19.15	19.23	19.15	21	0		15	64QAM	36	25	14.53	14.27	14.43	15.5	0	
5	64QAM	12	13	19.05	19.23	19.05				15	64QAM	36	50	14.37	14.49	14.43			
5	256QAM	1	0	19.62	19.72	19.63				15	256QAM	1	0	14.55	14.07	14.50			
5	256QAM	1	12	19.67	19.68	19.62	20.5	0.5		15	256QAM	1	49	14.23	14.23	14.59	15.5	0	
5	256QAM	1	24	18.62	18.66	18.65				15	256QAM	1	74	14.21	14.37	14.26			
5	256QAM	12	0	18.61	18.69	18.69				15	256QAM	36	0	14.52	14.37	14.43			
5	256QAM	12	7	18.64	18.65	18.60	20.5	0.5		15	256QAM	36	25	14.12	14.26	14.27	15.5	0	
5	256QAM	12	13	18.60	18.62	18.60				15	256QAM	36	50	14.53	14.37	14.39			
5	256QAM	25	0	18.56	18.63	18.58				15	256QAM	72	0	14.35	14.53	14.23			
Channel Frequency (MHz)										Channel Frequency (MHz)									
3	QPSK	1	0	19.36	19.35	19.35				10	QPSK	1	0	14.54	14.54	14.38			
3	QPSK	1	8	19.04	19.14	19.31	21	0		10	QPSK	1	36	14.48	14.41	14.47	15.5	0	
3	QPSK	1	14	19.14	19.13	19.13				10	QPSK	1	49	14.29	14.40	14.35			
3	QPSK	8	0	19.10	19.21	19.09				10	QPSK	25	0	14.44	14.59	14.15			
3	QPSK	8	7	19.22	19.15	19.15	21	0		10	QPSK	25	25	14.45	14.26	14.23	15.5	0	
3	QPSK	8	7	19.06	19.18	19.07				10	QPSK	25	25	14.28	14.17	14.43			
3	QPSK	15	0	19.24	19.22	19.16				10	QPSK	50	0	14.22	14.49	14.32			
3	16QAM	1	0	19.15	19.34	19.19	21	0		10	16QAM	1	0	14.32	14.43	14.25	15.5	0	
3	16QAM	1	8	19.03	19.06	19.04				10	16QAM	1	25	14.26	14.25	14.00			
3	16QAM	1	14	19.08	19.08	19.17				10	16QAM	1	49	14.09	14.33	14.16			
3	16QAM	8	0	19.38	19.45	19.25				10	16QAM	1	36	14.41	14.17	14.35			
3	16QAM	8	4	19.13	19.39	19.25	21	0		10	16QAM	25	12	14.36	14.16	14.57	15.5	0	
3	16QAM	8	7	19.09	19.27	19.13				10	16QAM	25	25	14.48	14.26	14.29			
3	16QAM	15	0	19.16	19.31	19.31				10	16QAM	25	25	14.09	14.29	14.27			
3	64QAM	1	0	19.27	19.35	19.33				10	16QAM	1	0	14.27	14.25	14.35			
3	64QAM	1	8	19.27	19.24	19.26	21	0		10	16QAM	1	25	14.48	14.59	14.42	15.5	0	
3	64QAM	1	14	19.17	19.28	19.18				10	64QAM	1	49	14.57	14.26	14.24			
3	64QAM	8	0	19.24	19.27	19.24				10	64QAM	25	0	14.15	14.21	14.49			
3	64QAM	8	4	19.15	19.16	19.14	21	0		10	64QAM	25	12	14.26	14.25	14.46	15.5	0	
3	64QAM	8	7	19.05	19.32	19.22				10	64QAM	25	25	14.27	14.50	14.57			
3	64QAM	15	0	19.13	19.17	19.11				10	64QAM	50	0	14.42	14.07	14.52			
3	256QAM	1	0	18.63	18.75	18.63				10	256QAM	1	0	14.53	14.50	14.24			
3	256QAM	1	8	19.76	19.60	19.58	20.5	0.5											



Band 66 Other PA Ant3 DS10 ENDC														
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Total up limit (dBm)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	16.54	16.57	16.61	18	0						
20	QPSK	1	49	16.32	16.31	16.19								
20	QPSK	1	99	16.27	16.33	16.38								
20	QPSK	50	0	16.48	16.56	16.55								
20	QPSK	50	24	16.40	16.49	16.31	18	0						
20	QPSK	50	50	16.42	16.16	16.37								
20	QPSK	100	0	16.27	16.47	16.29								
20	16QAM	1	0	16.34	16.17	16.29								
20	16QAM	1	49	16.26	16.19	16.12	18	0						
20	16QAM	1	99	16.12	16.11	16.22								
20	16QAM	50	0	16.39	16.46	16.34								
20	16QAM	50	24	16.40	16.34	16.31								
20	16QAM	50	50	16.17	16.36	16.25	18	0						
20	16QAM	100	0	16.15	16.39	16.23								
20	256QAM	1	0	16.52	16.30	16.27								
20	256QAM	1	49	16.22	16.30	16.21								
20	256QAM	1	99	16.23	16.24	16.31	18	0						
20	256QAM	50	0	16.41	16.42	16.24								
20	256QAM	50	24	16.31	16.31	16.27								
20	256QAM	50	50	16.31	16.13	16.33								
20	256QAM	100	0	16.23	16.37	16.20	18	0						
Channel														
Frequency (MHz)														
15	QPSK	1	0	16.35	16.32	16.26					18	0		
15	QPSK	1	37	16.30	16.17	16.06								
15	QPSK	1	74	16.22	16.31	16.26								
15	QPSK	36	0	16.28	16.49	16.16								
15	QPSK	36	20	16.36	16.39	16.16	18	0						
15	QPSK	36	39	16.26	16.12	16.23								
15	QPSK	75	0	16.19	16.39	16.24								
15	16QAM	1	0	16.17	16.07	16.16								
15	16QAM	1	37	16.14	16.13	16.11	18	0						
15	16QAM	1	74	16.08	16.09	16.10								
15	16QAM	36	0	16.25	16.35	16.29								
15	16QAM	36	20	16.36	16.23	16.28								
15	16QAM	36	39	16.07	16.30	16.17	18	0						
15	16QAM	75	0	16.14	16.39	16.17								
15	16QAM	1	0	16.19	16.39	16.23								
15	16QAM	1	37	16.17	16.22	16.21								
15	16QAM	1	74	16.04	16.11	16.13	18	0						
15	16QAM	36	0	16.25	16.30	16.19								
15	16QAM	36	20	16.16	16.11	16.13								
15	16QAM	36	39	16.02	16.25	16.08								
15	16QAM	75	0	16.11	16.27	16.09	18	0						
15	256QAM	1	0	16.42	16.36	16.23								
15	256QAM	1	37	16.17	16.16	16.14								
15	256QAM	1	74	16.08	16.17	16.24								
15	256QAM	36	0	16.42	16.44	16.21	18	0						
15	256QAM	36	20	16.21	16.43	16.16								
15	256QAM	36	39	16.37	16.05	16.26								
15	256QAM	75	0	16.10	16.28	16.26								
Channel														
Frequency (MHz)														
10	QPSK	1	0	16.48	16.44	16.24	18	0						
10	QPSK	1	25	16.24	16.19	16.01								
10	QPSK	1	49	16.21	16.31	16.29								
10	QPSK	25	0	16.35	16.41	16.20								
10	QPSK	25	12	16.36	16.33	16.16	18	0						
10	QPSK	25	25	16.27	16.16	16.37								
10	16QAM	1	0	16.22	16.40	16.16								
10	16QAM	1	0	16.33	16.11	16.06								
10	16QAM	1	25	16.21	16.11	16.06	18	0						
10	16QAM	1	49	16.08	16.02	16.05								
10	16QAM	25	0	16.31	16.45	16.30								
10	16QAM	25	12	16.26	16.27	16.27								
10	16QAM	25	25	16.04	16.30	16.16	18	0						
10	16QAM	50	0	16.23	16.44	16.22								
10	16QAM	1	0	16.24	16.30	16.24								
10	16QAM	1	25	16.15	16.32	16.16								
10	16QAM	1	49	16.11	16.15	16.16	18	0						
10	16QAM	25	0	16.30	16.29	16.12								
10	16QAM	25	12	16.17	16.09	16.06								
10	16QAM	25	25	16.09	16.29	16.06								
10	256QAM	1	0	16.51	16.36	16.29	18	0						
10	256QAM	1	25	16.23	16.26	16.01								
10	256QAM	1	49	16.19	16.17	16.36								
10	256QAM	25	0	16.31	16.52	16.24								
10	256QAM	25	12	16.35	16.42	16.17	18	0						
10	256QAM	25	25	16.35	16.02	16.36								
10	256QAM	50	0	16.26	16.42	16.11								
Channel														
Frequency (MHz)														
5	QPSK	1	0	16.35	16.46	16.30	18	0						
5	QPSK	1	12	16.20	16.21	16.17								
5	QPSK	1	24	16.12	16.24	16.29								
5	QPSK	12	0	16.40	16.37	16.16								
5	QPSK	12	7	16.30	16.35	16.12	18	0						
5	QPSK	12	13	16.30	16.02	16.32								
5	QPSK	25	0	16.09	16.39	16.23								
5	16QAM	1	0	16.22	16.15	16.14								
5	16QAM	1	12	16.19	16.11	16.02	18	0						
5	16QAM	1	24	16.06	16.11	16.15								
5	16QAM	12	0	16.31	16.39	16.23								
5	16QAM	12	7	16.36	16.28	16.19								
5	16QAM	12	13	16.08	16.23	16.19	18	0						
5	16QAM	25	0	16.16	16.40	16.19								
5	16QAM	1	0	16.21	16.37	16.26								
5	16QAM	1	12	16.25	16.26	16.13								
5	16QAM	1	24	16.14	16.16	16.13	18	0						
5	16QAM	12	0	16.19	16.29	16.17								
5	16QAM	12	7	16.21	16.06	16.14								
5	16QAM	12	13	16.00	16.29	16.05								
5	16QAM	25	0	16.09	16.30	16.15	18	0						
5	256QAM	1	0	16.46	16.44	16.29								
5	256QAM	1	12	16.14	16.11	16.06								
5	256QAM	1	24	16.21	16.16	16.25								
5	256QAM	12	0	16.46	16.53	16.29	18	0						
5	256QAM	12	7	16.31	16.34	16.16								
5	256QAM	12	13	16.25	16.00	16.34								
5	256QAM	25	0	16.26	16.32	16.22	18	0						
Channel														
Frequency (MHz)														
3	QPSK	1	0	17.115	17.165	17.222					18	0		
3	QPSK	1	0	16.45	16.38	16.35								
3	QPSK	1	14	16.24	16.27	16.29								
3	QPSK	1	14	16.24	16.27	16.18								
3	QPSK	1	14	16.24	16.27	16.18	18	0						
3	QPSK	1	14	16.24	16.27	16.18								
3	QPSK	1	14	16.24	16.27	16.18								
3	QPSK	1	14	16.24	16.27	16.18								
3	QPSK	15	0	16.14	16.28	16.23	18	0						
3	QPSK	15	0	16.14	16.28	16.23								
3	QPSK	15	0	16.14	16.28	16.23								
3	QPSK	15	0	16.14	16.28	16.23								
3	QPSK	8	0	16.13	16.09	16.09	18	0						
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09	18	0						
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09	18	0						
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09	18	0						
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09	18	0						
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09	18	0						
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09	18	0						
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09	18	0						
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09	18	0						
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09	18	0						
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09	18	0						
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09	18	0						
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09	18	0						
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09	18	0						
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09	16.09								
3	QPSK	8	0	16.13	16.09									

DSI 1 Power for WWAN Other PA

Band 5 Ant0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 20450	Power Middle Ch. / Freq. 20525	Power High Ch. / Freq. 20600	Tune-up limit (dBm)	MPR (dB)		
Channel				829	836.5	844				
Frequency (MHz)										
10	QPSK	1	0	24.82	24.85	24.77	25.5	0		
10	QPSK	1	25	24.74	24.73	24.69				
10	QPSK	1	49	24.68	24.68	24.61				
10	QPSK	25	0	23.64	23.75	23.66	24.5	1		
10	QPSK	25	12	23.84	23.85	23.84				
10	QPSK	25	25	23.67	23.58	23.65				
10	QPSK	50	0	23.59	23.72	23.62	24.5	1		
10	16QAM	1	0	23.73	23.86	23.73				
10	16QAM	1	25	23.74	23.80	23.71				
10	16QAM	1	49	23.70	23.76	23.67	23.5	2		
10	16QAM	25	0	22.79	22.91	22.78				
10	16QAM	25	12	22.70	22.77	22.71				
10	16QAM	25	25	22.66	22.71	22.66	23.5	2		
10	16QAM	50	0	22.69	22.80	22.70				
10	64QAM	1	0	22.74	22.84	22.71				
10	64QAM	1	25	22.61	22.76	22.70	23.5	2		
10	64QAM	1	49	22.59	22.69	22.62				
10	64QAM	25	0	21.79	21.89	21.79				
10	64QAM	25	12	21.85	21.76	21.89	22.5	3		
10	64QAM	25	25	21.71	21.82	21.72				
10	64QAM	50	0	21.68	21.81	21.73				
10	256QAM	1	0	19.52	19.65	19.58	20.5	5		
10	256QAM	1	25	19.42	19.56	19.47				
10	256QAM	1	49	19.42	19.52	19.41				
10	256QAM	25	0	19.54	19.60	19.52	20.5	5		
10	256QAM	25	12	19.44	19.54	19.39				
10	256QAM	25	25	19.36	19.47	19.33				
10	256QAM	50	0	19.45	19.52	19.37				
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	0	24.73	24.77	24.64	25.5	0		
5	QPSK	1	12	24.61	24.66	24.57				
5	QPSK	1	24	24.61	24.54	24.54				
5	QPSK	12	0	23.57	23.67	23.56	24.5	1		
5	QPSK	12	7	23.58	23.54	23.55				
5	QPSK	12	13	23.54	23.43	23.58				
5	QPSK	25	0	23.46	23.58	23.55	24.5	1		
5	16QAM	1	0	23.64	23.80	23.67				
5	16QAM	1	12	23.62	23.73	23.60				
5	16QAM	1	24	23.62	23.63	23.58	23.5	2		
5	16QAM	12	0	22.67	22.82	22.65				
5	16QAM	12	7	22.63	22.63	22.60				
5	16QAM	12	13	22.54	22.82	22.57	23.5	2		
5	16QAM	25	0	22.63	22.69	22.60				
5	64QAM	1	0	22.68	22.74	22.63				
5	64QAM	1	12	22.51	22.64	22.58	22.5	3		
5	64QAM	1	24	22.47	22.59	22.50				
5	64QAM	12	0	21.67	21.77	21.71				
5	64QAM	12	7	21.58	21.62	21.60	22.5	3		
5	64QAM	12	13	21.66	21.68	21.61				
5	64QAM	25	0	21.60	21.75	21.61				
5	256QAM	1	0	19.45	19.56	19.44	20.5	5		
5	256QAM	1	12	19.34	19.49	19.38				
5	256QAM	1	24	19.33	19.44	19.29				
5	256QAM	12	0	19.46	19.45	19.41	20.5	5		
5	256QAM	12	7	19.33	19.45	19.33				
5	256QAM	12	13	19.27	19.40	19.20				
5	256QAM	25	0	19.32	19.41	19.28				
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	24.77	24.77	24.65	25.5	0		
3	QPSK	1	8	24.65	24.63	24.55				
3	QPSK	1	14	24.54	24.54	24.52				
3	QPSK	8	0	23.50	23.68	23.55	24.5	1		
3	QPSK	8	4	23.50	23.60	23.59				
3	QPSK	8	7	23.56	23.52	23.52				
3	QPSK	15	0	23.51	23.57	23.48	24.5	1		
3	16QAM	1	0	23.66	23.81	23.59				
3	16QAM	1	8	23.60	23.67	23.60				
3	16QAM	1	14	23.62	23.62	23.60	23.5	2		
3	16QAM	8	0	22.71	22.85	22.72				
3	16QAM	8	4	22.56	22.70	22.65				
3	16QAM	8	7	22.55	22.57	22.53	23.5	2		
3	16QAM	15	0	22.58	22.67	22.65				
3	64QAM	1	0	22.60	22.78	22.61				
3	64QAM	1	8	22.52	22.70	22.59	23.5	2		
3	64QAM	1	14	22.45	22.63	22.50				
3	64QAM	8	0	21.68	21.80	21.67				
3	64QAM	8	4	21.51	21.64	21.57	22.5	3		
3	64QAM	8	7	21.57	21.68	21.61				
3	64QAM	15	0	21.60	21.70	21.65				
3	256QAM	1	0	19.42	19.50	19.52	20.5	5		
3	256QAM	1	8	19.32	19.44	19.33				
3	256QAM	1	14	19.35	19.45	19.36				
3	256QAM	8	0	19.47	19.51	19.44	20.5	5		
3	256QAM	8	4	19.39	19.47	19.33				
3	256QAM	8	7	19.27	19.38	19.23				
3	256QAM	15	0	19.34	19.41	19.24				
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				824.7	836.5	848.3				
1.4	QPSK	1	0	24.74	24.78	24.64	25.5	0		
1.4	QPSK	1	3	24.63	24.67	24.54				
1.4	QPSK	1	5	24.61	24.55	24.50				
1.4	QPSK	3	0	23.56	23.68	23.59	24.5	1		
1.4	QPSK	3	1	23.51	23.57	23.52				
1.4	QPSK	3	3	23.55	23.51	23.59				
1.4	QPSK	6	0	23.46	23.62	23.49	24.5	1		
1.4	16QAM	1	0	23.61	23.79	23.58				
1.4	16QAM	1	3	23.66	23.69	23.62				
1.4	16QAM	1	5	23.60	23.65	23.56	24.5	1		
1.4	16QAM	3	0	23.59	23.75	23.64				
1.4	16QAM	3	1	23.64	23.67	23.63				
1.4	16QAM	3	3	23.55	23.63	23.52	23.5	2		
1.4	16QAM	6	0	22.74	22.81	22.69				
1.4	64QAM	1	0	22.63	22.69	22.66				
1.4	64QAM	1	3	22.57	22.58	22.53	23.5	2		
1.4	64QAM	1	5	22.56	22.71	22.56				
1.4	64QAM	3	0	22.64	22.77	22.63				
1.4	64QAM	3	1	22.49	22.61	22.48	22.5	3		
1.4	64QAM	6	0	21.70	21.76	21.64				
1.4	256QAM	1	0	19.47	19.55	19.51				
1.4	256QAM	1	3	19.34	19.42	19.38	20.5	5		
1.4	256QAM	1	5	19.30	19.42	19.30				
1.4	256QAM	3	0	19.40	19.49	19.38				
1.4	256QAM	3	1	19.32	19.41	19.27				
1.4	256QAM	3	3	19.22	19.32	19.19	20.5	5		
1.4	256QAM	6	0	19.31	19.42	19.32				

Band 4 Other PA Ant1 DS11														
RF Band	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med. Ch./Freq.	Power High Ch./Freq.	Time-up Int. (dB)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	24.09	24.13	24.07			25	0				
20	QPSK	1	49	23.86	23.88	23.84								
20	QPSK	1	99	23.83	23.84	23.81			24.5	0.5				
20	QPSK	50	0	23.31	23.53	23.33								
20	QPSK	24	0	23.39	23.43	23.40			24.5	0.5				
20	QPSK	50	50	23.32	23.36	23.28								
20	QPSK	100	0	23.37	23.48	23.36			24.5	0.5				
20	HQAM	1	49	23.32	23.39	23.30								
20	HQAM	1	99	23.24	23.35	23.30			23.5	1.5				
20	HQAM	50	0	22.41	22.55	22.44								
20	HQAM	50	24	22.31	22.41	22.27			23.5	1.5				
20	HQAM	50	50	22.21	22.25	22.26								
20	HQAM	100	0	22.44	22.50	22.38			22.5	2.5				
20	HQAM	1	0	22.37	22.52	22.49								
20	HQAM	1	49	22.30	22.44	22.39			22.5	2.5				
20	HQAM	1	99	22.24	22.37	22.31								
20	HQAM	50	0	21.41	21.46	21.38			22.5	2.5				
20	HQAM	50	24	21.19	21.33	21.27								
20	HQAM	50	50	21.27	21.39	21.31			22.5	2.5				
20	HQAM	100	0	21.30	21.41	21.36								
20	HQAM	1	0	19.41	19.40	19.44			20.5	4.5				
20	HQAM	1	49	19.29	19.40	19.36								
20	HQAM	1	99	19.24	19.36	19.26			20.5	4.5				
20	HQAM	50	0	19.40	19.34	19.34								
20	HQAM	50	24	19.30	19.38	19.25			20.5	4.5				
20	HQAM	50	50	19.27	19.31	19.18								
20	HQAM	100	0	19.34	19.38	19.33			20.5	4.5				
Channel														
Frequency (MHz)														
15	QPSK	1	0	24.03	24.09	24.06						25	0	
15	QPSK	1	37	23.78	23.76	23.76								
15	QPSK	1	74	23.73	23.65	23.72			24.5	0.5				
15	QPSK	36	0	23.16	23.18	23.18								
15	QPSK	36	20	23.34	23.28	23.35			24.5	0.5				
15	QPSK	36	39	23.27	23.22	23.23								
15	HQAM	1	0	23.22	23.24	23.23			24.5	0.5				
15	HQAM	1	0	23.28	23.38	23.24								
15	HQAM	1	37	23.22	23.29	23.19			23.5	1.5				
15	HQAM	1	74	23.17	23.24	23.17								
15	HQAM	36	0	22.31	22.50	22.37			23.5	1.5				
15	HQAM	36	20	22.23	22.38	22.18								
15	HQAM	36	39	22.13	22.25	22.23			23.5	1.5				
15	HQAM	75	0	22.33	22.37	22.27								
15	HQAM	1	0	22.34	22.43	22.38			23.5	1.5				
15	HQAM	1	37	22.25	22.39	22.33								
15	HQAM	1	74	22.21	22.24	22.24			22.5	2.5				
15	HQAM	36	0	21.34	21.35	21.34								
15	HQAM	36	20	21.08	21.23	21.18			22.5	2.5				
15	HQAM	36	39	21.18	21.34	21.27								
15	HQAM	75	0	21.21	21.31	21.25			20.5	4.5				
15	HQAM	1	0	19.30	19.37	19.27								
15	HQAM	1	37	19.18	19.26	19.26			20.5	4.5				
15	HQAM	1	74	19.14	19.25	19.20								
15	HQAM	36	0	19.30	19.37	19.27			20.5	4.5				
15	HQAM	36	20	19.27	19.33	19.18								
15	HQAM	36	39	19.19	19.27	19.10			20.5	4.5				
15	HQAM	75	0	19.11	19.32	19.20								
Channel														
Frequency (MHz)														
10	QPSK	1	0	24.03	24.09	24.06			25	0				
10	QPSK	1	25	23.67	23.72	23.73								
10	QPSK	1	49	23.72	23.70	23.79			24.5	0.5				
10	QPSK	25	0	23.17	23.18	23.18								
10	QPSK	25	12	23.29	23.28	23.28			24.5	0.5				
10	QPSK	25	25	23.20	23.25	23.18								
10	QPSK	50	0	23.36	23.42	23.33			24.5	0.5				
10	HQAM	1	0	23.19	23.32	23.28								
10	HQAM	1	25	23.27	23.31	23.20			24.5	0.5				
10	HQAM	1	49	23.17	23.27	23.20								
10	HQAM	25	0	22.33	22.44	22.34			23.5	1.5				
10	HQAM	25	12	22.19	22.28	22.14								
10	HQAM	25	25	22.10	22.30	22.19			22.5	2.5				
10	HQAM	50	0	22.39	22.41	22.25								
10	HQAM	1	0	22.27	22.41	22.41			23.5	1.5				
10	HQAM	1	25	22.29	22.33	22.31								
10	HQAM	1	49	22.16	22.32	22.25			22.5	2.5				
10	HQAM	25	0	21.35	21.39	21.29								
10	HQAM	25	12	21.08	21.24	21.22			22.5	2.5				
10	HQAM	25	25	21.22	21.25	21.24								
10	HQAM	50	0	21.17	21.35	21.24			20.5	4.5				
10	HQAM	1	0	19.27	19.43	19.35								
10	HQAM	1	25	19.23	19.27	19.22			20.5	4.5				
10	HQAM	1	49	19.12	19.28	19.14								
10	HQAM	25	0	19.34	19.30	19.23			20.5	4.5				
10	HQAM	25	12	19.19	19.20	19.12								
10	HQAM	25	25	19.17	19.19	19.06			20.5	4.5				
10	HQAM	50	0	19.17	19.24	19.21								
Channel														
Frequency (MHz)														
5	QPSK	1	0	23.65	24.10	23.95			25	0				
5	QPSK	1	12	23.64	23.69	23.69								
5	QPSK	1	24	23.64	23.71	23.71			24.5	0.5				
5	QPSK	12	0	23.17	23.46	23.31								
5	QPSK	12	7	23.27	23.34	23.28			24.5	0.5				
5	QPSK	12	13	23.23	23.22	23.16								
5	QPSK	25	0	23.29	23.42	23.33			24.5	0.5				
5	HQAM	1	0	23.25	23.31	23.24								
5	HQAM	1	12	23.23	23.33	23.21			24.5	0.5				
5	HQAM	1	24	23.19	23.29	23.23								
5	HQAM	12	0	22.29	22.43	22.34			23.5	1.5				
5	HQAM	12	7	22.20	22.34	22.20								
5	HQAM	12	13	22.10	22.25	22.12			23.5	1.5				
5	HQAM	25	0	22.30	22.40	22.28								
5	HQAM	1	0	22.22	22.41	22.39			23.5	1.5				
5	HQAM	1	12	22.34	22.37	22.30								
5	HQAM	1	24	22.13	22.28	22.20			22.5	2.5				
5	HQAM	12	0	21.30	21.34	21.28								
5	HQAM	12	7	21.04	21.20	21.18			22.5	2.5				
5	HQAM	12	13	21.21	21.29	21.20								
5	HQAM	25	0	21.24	21.28	21.22			22.5	2				

Band 4 Other PA Ant2 DSH1															
EW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Fch Ch./Fch	Power Mask Ch./Fch	Power High Ch./Fch	Turn-up limit (dB)	MFR (dB)							
Channel															
Frequency (MHz)															
20	QPSK	1	0	2134	2139	2138	22	0							
20	QPSK	1	49	2123	2124	2125									
20	QPSK	1	99	2109	2115	2127									
20	QPSK	50	0	2132	2134	2130	22	0							
20	QPSK	50	24	2118	2122	2114									
20	QPSK	50	50	2109	2103	2127									
20	QPSK	100	0	2126	2131	2128	22	0							
20	16QAM	1	0	2115	2108	2097									
20	16QAM	1	49	2116	2092	2100									
20	16QAM	1	99	2101	2103	2113	22	0							
20	16QAM	50	0	2101	2111	2130									
20	16QAM	50	24	2107	2114	2131									
20	16QAM	50	50	2131	2117	2118	22	0							
20	16QAM	100	0	2100	2118	2116									
20	64QAM	1	0	2113	2112	2134									
20	64QAM	1	49	2117	2133	2130	22	0							
20	64QAM	1	99	2118	2114	2111									
20	64QAM	50	0	2052	2062	2050									
20	64QAM	50	24	2038	2049	2030	21.5	0.5							
20	64QAM	50	50	2045	2055	2049									
20	64QAM	100	0	2052	2058	2051									
20	256QAM	1	0	1848	1858	1850	19.5	2.5							
20	256QAM	1	49	1843	1849	1840									
20	256QAM	1	99	1837	1845	1838									
20	256QAM	50	0	1843	1850	1840	19.5	2.5							
20	256QAM	50	24	1838	1844	1830									
20	256QAM	50	50	1828	1837	1820									
20	256QAM	100	0	1832	1844	1830									
Channel															
Frequency (MHz)															
15	QPSK	1	0	2121	2124	2122	22	0							
15	QPSK	1	37	2113	2119	2114									
15	QPSK	1	74	2108	2104	2118									
15	QPSK	36	0	2121	2119	2122	22	0							
15	QPSK	36	20	2107	2109	2102									
15	QPSK	36	39	2099	2099	2113									
15	QPSK	75	0	2124	2121	2117	22	0							
15	16QAM	1	0	2095	2092	2090									
15	16QAM	1	37	2107	2077	2083									
15	16QAM	1	74	2084	2092	2108	22	0							
15	16QAM	36	0	2088	2105	2117									
15	16QAM	36	20	2099	2113	2128									
15	16QAM	36	39	2130	2107	2090	22	0							
15	16QAM	75	0	2083	2112	2112									
15	64QAM	1	0	2110	2099	2131									
15	64QAM	1	37	2100	2123	2121	22	0							
15	64QAM	1	74	2108	2096	2105									
15	64QAM	36	0	2040	2053	2038									
15	64QAM	36	20	2029	2038	2020	21.5	0.5							
15	64QAM	36	39	2037	2050	2041									
15	64QAM	75	0	2037	2049	2040									
15	256QAM	1	0	1842	1844	1844	19.5	2.5							
15	256QAM	1	37	1834	1838	1827									
15	256QAM	1	74	1826	1838	1831									
15	256QAM	36	0	1826	1837	1830	19.5	2.5							
15	256QAM	36	20	1824	1837	1830									
15	256QAM	36	39	1820	1828	1818									
15	256QAM	75	0	1825	1837	1822									
Channel															
Frequency (MHz)															
10	QPSK	1	0	2132	2127	2118	22	0							
10	QPSK	1	25	2105	2104	2113									
10	QPSK	1	49	2101	2111	2124									
10	QPSK	25	0	2129	2127	2128	22	0							
10	QPSK	25	12	2104	2108	2101									
10	QPSK	25	25	2105	2084	2118									
10	QPSK	80	0	2122	2121	2114	22	0							
10	16QAM	1	0	2098	2091	2089									
10	16QAM	1	25	2098	2088	2083									
10	16QAM	1	49	2086	2093	2101	22	0							
10	16QAM	25	0	2083	2111	2120									
10	16QAM	25	12	2091	2112	2125									
10	16QAM	25	25	2118	2098	2114	22	0							
10	16QAM	50	0	2091	2107	2109									
10	64QAM	1	0	2109	2096	2120									
10	64QAM	1	25	2104	2121	2130	22	0							
10	64QAM	1	49	2103	2102	2096									
10	64QAM	25	0	2039	2047	2041									
10	64QAM	25	12	2029	2043	2023	21.5	0.5							
10	64QAM	25	25	2038	2047	2041									
10	64QAM	50	0	2043	2043	2036									
10	256QAM	1	0	1830	1848	1844	19.5	2.5							
10	256QAM	1	25	1830	1839	1830									
10	256QAM	1	49	1828	1837	1832									
10	256QAM	25	0	1836	1842	1831	19.5	2.5							
10	256QAM	25	12	1823	1832	1823									
10	256QAM	25	25	1818	1823	1821									
10	256QAM	50	0	1820	1831	1823									
Channel															
Frequency (MHz)															
5	QPSK	1	0	2127	2128	2125	22	0							
5	QPSK	1	12	2108	2112	2118									
5	QPSK	1	24	2107	2097	2112									
5	QPSK	12	0	2118	2133	2122	22	0							
5	QPSK	12	7	2117	2120	2104									
5	QPSK	12	13	2099	2088	2120									
5	QPSK	25	0	2117	2128	2128	22	0							
5	16QAM	1	0	2107	2103	2086									
5	16QAM	1	12	2109	2085	2091									
5	16QAM	1	24	2092	2093	2110	22	0							
5	16QAM	12	0	2100	2111	2117									
5	16QAM	12	7	2095	2100	2120									
5	16QAM	12	13	2109	2103	2103	22	0							
5	16QAM	25	0	2096	2101	2098									
5	64QAM	1	0	2086	2106	2117									
5	64QAM	1	12	2110	2132	2130	22	0							
5	64QAM	1	24	2102	2114	2099									
5	64QAM	12	0	2039	2049	2037									
5	64QAM	12	7	2033	2042	2030	21.5	0.5							
5	64QAM	12	13	2037	2042	2030									
5	64QAM	25	0	2046	2047	2042									
5	256QAM	1	0	1838	1844	1830	19.5	2.5							
5	256QAM	1	12	1834	1837	1830									
5	256QAM	1	24	1826	1838	1831									
5	256QAM	12	0	1838	1840	1831	19.5	2.5							
5	256QAM	12	7	1829	1839	1829									
5	256QAM	12	13	1819	1823	1823									
5	256QAM	25	0	1818	1838	1824									
Channel															
Frequency (MHz)															
3	QPSK	1	0	2115	2128	2121	22	0							
3	QPSK	1	8	2112	2115	2125									
3	QPSK	1	14	2092	2114	2125									
3	QPSK	8	0	2124	2123	2119	22	0							
3	QPSK	8	8	2112	2112	2121									
3	QPSK	8	8	2095	2101	2109									
3	QPSK	15	0	2109	2120	2128	22	0							
3	16QAM	1	0	2107	2107	2107									
3	16QAM	1	8	2103	2081	2110									
3	16QAM	1	14	2082	2093	2110	22	0							
3	16QAM	8	0	2093	2109	2120									
3	16QAM	8	8	2096	2105	2115									
3	16QAM	8	7	2123	2113	2115	22	0							
3	16QAM	15	0	2109	2101	2121									
3	16QAM	15	8	2109	2101	2120									
3	64QAM	1	0	2109	2101	2120	22	0							
3	64QAM	1	8	2110	2129	2120									
3	64QAM	1	14	2094	2094	2093									
3	64QAM	8	0	2045	2047	2036	21.5	0.5							
3	64QAM	8	8	2041	2038	2023									
3	64QAM	15	0	2044	2049	2042									
3	256QAM	1	0	1840	1847	1846	19.5	2.5							
3	256QAM	1	8	1836	1836	1836									
3	256QAM	1	14	1828	1838	1840									
3	256QAM	8	0	1829	1841	1831	19.5	2.5							
3	256QAM	8	8	1829	1831	1828									
3	256QAM	8	7	1814	1826	1817									
3	256QAM	15	0	1817	1823	1823									
Channel															
Frequency (MHz)															
1.4	QPSK	1	0	2125	2131	2135	22	0							
1.4	QPSK	1	5	2102	2108	2112									
1.4	QPSK	1	3	2124	2116	2117									
1.4	QPSK	3	0	2125	2105	2108	22	0							
1.4	QPSK	3	3	2097	2092	2109									
1.4	QPSK	3	6	2126	2126	2128									
1.4	QPSK	6	0	2134	2109	2106	22	0							
1.4	QPSK	6	3	2115	2090	2094									
1.4	QPSK	6	6	2081	2086	2111									
1.4	16QAM	1	0	2098	2098	2117	22	0							
1.4	16QAM	1	3	2088	2095	2119									
1.4	16QAM	1	6	2116	2116	2116									
1.4	16QAM	6	0	2097	2099	2099	22	0							
1.4	16QAM	6	3	2097	2097	2131									
1.4	16QAM	6	6	2121	2123	2123									
1.4	16QAM	1	0	2126	2133	2134	22	0							
1.4	16QAM	1	3	2115	2106	2112									
1.4	16QAM	1	6	2106	2118	2101									
1.4	64QAM	1	0	2041	2048	2035	21.5	0.5							
1.4	64QAM	1	3	2042	2052	2042									
1.4	64QAM	1	6	1834	1834	1827									
1.4	256QAM	1	0	1824	1830	1828	19.5	2.5							
1.4	256QAM	1	3	1824	1830	1828									
1.4	256QAM	1	6	1824	1834	1827									

Band 4 Other PA Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Frac.	Power Mid Ch./Frac.	Power High Ch./Frac.	Tune-up (MHz)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.98	24.17	23.88	25.5	0		
20	QPSK	1	49	23.78	23.86	23.78				
20	QPSK	1	99	23.76	23.87	23.75	24.5	1		
20	QPSK	50	0	22.87	23.12	22.86				
20	QPSK	50	24	22.86	23.00	22.74				
20	QPSK	50	50	22.66	23.02	22.69				
20	QPSK	100	0	22.58	22.81	22.60	24.5	1		
20	16QAM	1	0	22.27	22.87	22.55				
20	16QAM	1	49	22.58	22.81	22.56				
20	16QAM	1	99	22.58	22.77	22.59				
20	16QAM	50	0	21.54	21.62	21.58	23.5	2		
20	16QAM	50	24	21.59	21.68	21.52				
20	16QAM	50	50	21.52	21.62	21.55				
20	16QAM	100	0	21.53	21.75	21.56				
20	64QAM	1	0	21.54	21.80	21.56	23.5	2		
20	64QAM	1	49	21.59	21.72	21.52				
20	64QAM	1	99	21.53	21.65	21.52				
20	64QAM	50	0	20.54	20.75	20.52				
20	64QAM	50	24	20.58	20.62	20.52	22.5	3		
20	64QAM	50	50	20.56	20.68	20.53				
20	64QAM	100	0	20.51	20.71	20.57				
20	256QAM	1	0	18.52	18.68	18.55				
20	256QAM	1	49	18.56	18.59	18.58	20.5	5		
20	256QAM	1	99	18.51	18.55	18.52				
20	256QAM	50	0	18.58	18.61	18.53				
20	256QAM	50	24	18.53	18.55	18.51				
20	256QAM	50	50	18.59	18.58	18.53	20.5	5		
20	256QAM	50	99	18.52	18.58	18.55				
Channel				20005	20175	20305	Tune-up (MHz)	MPR (dB)		
Frequency (MHz)										
15	QPSK	1	0	23.75	23.84	23.54	25.5	0		
15	QPSK	1	25	23.53	23.62	23.64				
15	QPSK	1	74	23.55	23.89	23.54	24.5	1		
15	QPSK	36	0	22.57	22.76	22.56				
15	QPSK	36	20	22.58	22.80	22.59				
15	QPSK	36	36	22.54	22.89	22.62				
15	QPSK	75	0	22.55	22.87	22.54	24.5	1		
15	16QAM	1	0	22.59	22.74	22.54				
15	16QAM	1	37	22.55	22.66	22.55				
15	16QAM	1	74	22.58	22.71	22.55				
15	16QAM	36	0	21.54	21.74	21.52	23.5	2		
15	16QAM	36	20	21.57	21.53	21.53				
15	16QAM	36	20	21.58	21.57	21.52				
15	16QAM	75	0	21.54	21.65	21.59				
15	64QAM	1	0	21.58	21.70	21.57	23.5	2		
15	64QAM	1	37	21.52	21.62	21.52				
15	64QAM	1	74	21.55	21.51	21.51				
15	64QAM	36	0	20.52	20.70	20.54				
15	64QAM	36	20	20.54	20.54	20.52	22.5	3		
15	64QAM	36	39	20.55	20.58	20.59				
15	64QAM	75	0	20.59	20.66	20.55				
15	256QAM	1	0	18.52	18.55	18.51				
15	256QAM	1	37	18.53	18.59	18.58	20.5	5		
15	256QAM	1	74	18.50	18.52	18.51				
15	256QAM	36	0	18.51	18.51	18.47				
15	256QAM	36	20	18.64	18.67	18.62				
15	256QAM	36	39	18.52	18.59	18.53	20.5	5		
15	256QAM	75	0	18.52	18.52	18.51				
Channel				20000	20175	20300	Tune-up (MHz)	MPR (dB)		
Frequency (MHz)										
10	QPSK	1	0	23.75	23.84	23.54	25.5	0		
10	QPSK	1	25	23.53	23.62	23.64				
10	QPSK	1	49	23.76	23.83	23.57	24.5	1		
10	QPSK	25	0	22.57	22.82	22.74				
10	QPSK	25	12	22.80	22.91	22.68				
10	QPSK	25	25	22.81	22.89	22.55				
10	QPSK	50	0	22.72	22.77	22.51	24.5	1		
10	16QAM	1	0	22.63	22.79	22.75				
10	16QAM	1	25	22.61	22.73	22.67				
10	16QAM	1	50	22.57	22.70	22.60				
10	16QAM	25	0	21.60	21.74	21.65	23.5	2		
10	16QAM	25	12	21.58	21.66	21.60				
10	16QAM	25	12	21.51	21.53	21.58				
10	16QAM	50	0	21.51	21.70	21.70				
10	64QAM	1	0	21.60	21.68	21.63	23.5	2		
10	64QAM	1	25	21.54	21.60	21.60				
10	64QAM	1	49	21.58	21.57	21.57				
10	64QAM	25	0	20.62	20.65	20.58				
10	64QAM	25	12	20.54	20.55	20.51	22.5	3		
10	64QAM	25	25	20.53	20.58	20.86				
10	64QAM	50	0	20.55	20.61	20.53				
10	256QAM	1	0	18.55	18.60	18.59				
10	256QAM	1	25	18.53	18.59	18.59	20.5	5		
10	256QAM	1	49	18.53	18.54	18.51				
10	256QAM	25	0	18.53	18.55	18.57				
10	256QAM	25	12	18.56	18.53	18.58				
10	256QAM	25	25	18.58	18.58	18.52	20.5	5		
10	256QAM	50	0	18.52	18.52	18.53				
Channel				19975	20175	20375	Tune-up (MHz)	MPR (dB)		
Frequency (MHz)										
5	QPSK	1	0	23.41	23.63	23.15	25.5	0		
5	QPSK	1	12	23.56	23.69	23.60				
5	QPSK	1	24	23.75	23.89	23.89	24.5	1		
5	QPSK	12	0	22.68	22.74	22.71				
5	QPSK	12	7	22.76	22.86	22.95				
5	QPSK	12	13	22.86	22.96	22.85				
5	QPSK	24	0	22.65	22.77	22.63	24.5	1		
5	16QAM	1	0	22.69	22.80	22.71				
5	16QAM	1	12	22.59	22.75	22.68				
5	16QAM	1	14	22.60	22.63	22.64				
5	16QAM	12	0	21.90	22.03	22.00	23.5	2		
5	16QAM	12	7	21.77	21.85	21.96				
5	16QAM	12	13	21.68	21.78	21.88				
5	16QAM	25	0	21.87	21.98	21.95				
5	64QAM	1	0	21.97	22.05	21.97	23.5	2		
5	64QAM	1	12	21.80	21.82	21.95				
5	64QAM	1	24	21.77	21.86	21.94				
5	64QAM	12	0	20.88	21.00	20.90				
5	64QAM	12	7	20.74	20.82	20.80	22.5	3		
5	64QAM	12	13	20.79	20.90	20.90				
5	64QAM	25	0	20.77	20.86	20.82				
5	256QAM	1	0	18.80	18.85	18.84				
5	256QAM	1	12	18.82	18.84	18.83	20.5	5		
5	256QAM	1	24	18.80	18.76	18.86				
5	256QAM	12	0	18.67	18.83	18.88				
5	256QAM	12	7	18.66	18.80	18.87				
5	256QAM	12	13	18.61	18.65	18.63	20.5	5		
5	256QAM	25	0	18.73	18.76	18.77				
Channel				19975	20175	20375	Tune-up (MHz)	MPR (dB)		
Frequency (MHz)										
3	QPSK	1	0	24.06	24.18	24.16	25.5	0		
3	QPSK	1	8	23.99	23.99	23.99				
3	QPSK	1	16	24.04	24.11	24.10	24.5	1		
3	QPSK	8	0	23.00	23.10	23.07				
3	QPSK	8	8	23.00	23.10	23.07				
3	QPSK	8	16	23.14	23.21	23.15				
3	QPSK	15	0	22.68	23.07	22.95	24.5	1		
3	QPSK	15	8	22.68	23.07	22.95				
3	QPSK	15	16	22.89	23.03	23.05				
3	16QAM	1	0	22.68	22.97	23.04				
3	16QAM	1	16	22.68	22.97	23.04	23.5	2		
3	16QAM	1	32	22.68	22.97	23.04				
3	16QAM	8	4	21.76	21.90	21.89				
3	16QAM	8	7	21.67	21.78	21.82				
3	16QAM	15	0	22.61	22.91	22.81	23.5	2		
3	16QAM	15	8	21.63	21.95	21.94				
3	16QAM	15	16	21.63	21.95	21.94				
3	64QAM	1	0	21.63	21.90	21.97				
3	64QAM	1	16	21.63	21.90	21.97	22.5	3		
3	64QAM	1	32	21.63	21.90	21.97				
3	64QAM	8	4	20.73	20.82	20.82				
3	64QAM	8	7	20.73	20.82	20.82				
3	256QAM	1	0	18.83	18.88	18.89	20.5	5		
3	256QAM	1	16	18.84	18.88	18.87				
3	256QAM	8	4	18.70	18.84	18.87				
3	256QAM	8	7	18.70	18.84	18.87				
3	256QAM	15	0	18.61	18.89	18.87	20.5	5		
3	256QAM	15	8	18.56	18.67	18.58				
Channel				19997	20177	20374	Tune-up (MHz)	MPR (dB)		
Frequency (MHz)										
1.4	QPSK	1	0	23.74	23.91	23.83	25.5	0		
1.4	QPSK	1	5	23.76	23.91	23.87				
1.4	QPSK	1	10	23.76	23.91	23.87	24.5	1		
1.4	QPSK	8	0	23.03	23.89	23.89				
1.4	QPSK	8	8	23.03	23.89	23.89				
1.4	QPSK	8	16	23.12	23.82	23.84				
1.4	QPSK	6	0	22.64	22.76	22.71	24.5	1		
1.4	QPSK	6	3	22.68	22.76	22.71				
1.4	QPSK	6	6	22.71	22.86	22.77				
1.4	QPSK	6	9	22.76	22.86	22.77				
1.4	16QAM	1	0	22.61	22.88	22.62	23.5	2		
1.4	16QAM	1	3	22.61	22.88	22.62				
1.4	16QAM	1	6	22.61	22.88	22.62				
1.4	16QAM	1	9	22.61	22.87	22.61				
1.4	16QAM	6	0	21.83	21.67	21.71	23.5	2		
1.4	16QAM	6	3	21.78						

Band 4 Other PA Ant4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	MFR (dB)		
Channel				2000	20175	20350	Turn-up limit (dB)	MFR (dB)		
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	23.07	23.27	23.21	24.5	0		
20	QPSK	1	49	22.91	23.15	23.13				
20	QPSK	1	99	23.03	23.22	23.20				
20	QPSK	50	0	21.98	22.27	22.14	23.5	1		
20	QPSK	50	24	22.00	22.18	22.14				
20	QPSK	50	50	22.05	22.23	22.24				
20	QPSK	100	0	22.00	22.19	22.10	23.5	1		
20	16QAM	1	49	22.14	22.31	22.27				
20	16QAM	1	99	22.09	22.27	22.25				
20	16QAM	50	0	21.05	21.25	21.22	22.5	2		
20	16QAM	50	24	21.08	21.26	21.20				
20	16QAM	50	50	21.04	21.21	21.14				
20	16QAM	100	0	20.99	21.23	21.15	22.5	2		
20	64QAM	1	0	20.93	21.13	21.11				
20	64QAM	1	49	21.00	21.24	21.14				
20	64QAM	1	99	21.00	21.23	21.17	21.5	3		
20	64QAM	50	0	20.93	20.22	20.17				
20	64QAM	50	24	20.98	20.25	20.20				
20	64QAM	50	50	20.95	20.23	20.18	19.5	5		
20	64QAM	100	0	20.91	20.20	20.16				
20	256QAM	1	0	17.81	18.02	17.90				
20	256QAM	1	49	17.87	18.11	18.07	19.5	5		
20	256QAM	1	99	17.83	18.04	17.97				
20	256QAM	50	0	18.06	18.26	18.18				
20	256QAM	50	24	17.93	18.16	18.15	19.5	5		
20	256QAM	50	50	17.94	18.17	18.14				
20	256QAM	100	0	18.00	18.19	18.13				
Channel				20005	20175	20350	Turn-up limit (dB)		MFR (dB)	
Frequency (MHz)				1717.5	1732.5	1747.5	Turn-up limit (dB)	MFR (dB)		
15	QPSK	1	0	22.83	23.12	23.10				
15	QPSK	1	37	22.80	23.03	23.04	24.5	0		
15	QPSK	1	74	22.90	23.11	23.12				
15	QPSK	36	0	21.74	22.08	21.98	23.5	1		
15	QPSK	36	20	21.89	22.12	22.05				
15	QPSK	36	36	22.00	22.16	22.10				
15	QPSK	75	0	21.88	22.14	22.02	23.5	1		
15	16QAM	1	0	21.97	22.15	22.01				
15	16QAM	1	37	22.02	22.17	22.14				
15	16QAM	1	74	21.94	22.17	22.20	22.5	2		
15	16QAM	36	0	20.97	21.14	21.11				
15	16QAM	36	20	21.01	21.12	21.08				
15	16QAM	36	36	20.90	21.08	21.02	22.5	2		
15	16QAM	75	0	20.92	21.17	21.02				
15	64QAM	1	0	20.82	21.02	21.05				
15	64QAM	1	37	20.89	21.15	21.09	21.5	3		
15	64QAM	1	74	20.90	21.16	21.11				
15	64QAM	36	0	19.94	20.09	20.09				
15	64QAM	36	20	19.97	20.16	20.05	19.5	5		
15	64QAM	36	39	19.98	20.08	20.03				
15	64QAM	75	0	19.92	20.07	20.06				
15	256QAM	1	0	17.65	17.90	17.83	19.5	5		
15	256QAM	1	37	17.74	18.04	17.97				
15	256QAM	1	74	17.76	17.92	17.90				
15	256QAM	36	0	17.97	18.11	18.02	19.5	5		
15	256QAM	36	20	17.82	18.03	18.01				
15	256QAM	36	39	17.89	18.11	18.02				
15	256QAM	75	0	17.90	18.08	18.05				
Channel				20000	20175	20350	Turn-up limit (dB)	MFR (dB)		
Frequency (MHz)				1715	1732.5	1750	Turn-up limit (dB)	MFR (dB)		
10	QPSK	1	0	23.02	23.15	23.11				
10	QPSK	1	25	22.78	23.03	23.01	24.5	0		
10	QPSK	1	49	22.88	23.08	23.12				
10	QPSK	25	0	21.84	22.06	21.84	23.5	1		
10	QPSK	25	12	21.94	22.08	22.05				
10	QPSK	25	25	21.98	22.20	22.12				
10	QPSK	50	0	21.85	22.04	21.85	23.5	1		
10	16QAM	1	0	21.98	22.08	22.02				
10	16QAM	1	25	22.00	22.20	22.13				
10	16QAM	1	49	22.04	22.21	22.10	22.5	2		
10	16QAM	25	0	20.95	21.19	21.10				
10	16QAM	25	12	20.99	21.21	21.07				
10	16QAM	25	25	20.97	21.11	21.01	21.5	3		
10	16QAM	50	0	20.91	21.15	21.08				
10	64QAM	1	0	20.83	21.08	21.01				
10	64QAM	1	25	20.91	21.18	21.04	22.5	2		
10	64QAM	1	49	20.94	21.16	21.10				
10	64QAM	25	0	19.90	20.07	20.10				
10	64QAM	25	12	19.94	20.15	20.07	21.5	3		
10	64QAM	25	25	19.92	20.15	20.07				
10	64QAM	50	0	19.95	20.13	20.02				
10	256QAM	1	0	17.67	17.92	17.88	19.5	5		
10	256QAM	1	25	17.73	18.03	17.96				
10	256QAM	1	49	17.72	17.90	17.85				
10	256QAM	25	0	17.91	18.14	18.02	19.5	5		
10	256QAM	25	12	17.88	18.08	18.00				
10	256QAM	25	25	17.81	18.10	18.06				
10	256QAM	50	0	17.91	18.09	18.05				
Channel				19975	20175	20375	Turn-up limit (dB)	MFR (dB)		
Frequency (MHz)				1712.5	1732.5	1752.5	Turn-up limit (dB)	MFR (dB)		
5	QPSK	1	0	22.98	23.14	23.11				
5	QPSK	1	12	22.83	23.06	23.03	24.5	0		
5	QPSK	1	24	22.96	23.16	23.09				
5	QPSK	12	0	21.83	22.17	22.05	23.5	1		
5	QPSK	12	7	21.91	22.12	22.05				
5	QPSK	12	13	21.98	22.15	22.12				
5	QPSK	25	0	21.85	22.08	21.98	23.5	1		
5	16QAM	1	0	21.93	22.07	21.97				
5	16QAM	1	12	22.03	22.18	22.14				
5	16QAM	1	24	21.99	22.15	22.11	22.5	2		
5	16QAM	12	0	20.96	21.17	21.13				
5	16QAM	12	7	20.96	21.16	21.09				
5	16QAM	12	13	20.96	21.10	21.08	21.5	3		
5	16QAM	25	0	20.90	21.13	21.07				
5	64QAM	1	0	20.86	21.05	21.02				
5	64QAM	1	12	20.88	21.09	21.07	22.5	2		
5	64QAM	1	24	20.86	21.12	21.10				
5	64QAM	12	0	19.95	20.14	20.03				
5	64QAM	12	7	19.98	20.11	20.06	21.5	3		
5	64QAM	12	13	19.96	20.13	20.10				
5	64QAM	25	0	19.90	20.12	20.00				
5	256QAM	1	0	17.72	17.94	17.83	19.5	5		
5	256QAM	1	12	17.80	18.06	17.95				
5	256QAM	1	24	17.79	17.91	17.84				
5	256QAM	12	0	17.99	18.14	18.01	19.5	5		
5	256QAM	12	7	17.96	18.08	18.04				
5	256QAM	12	13	17.90	18.07	18.05				
5	256QAM	25	0	17.85	18.07	18.03				
Channel				19975	20175	20375	Turn-up limit (dB)	MFR (dB)		
Frequency (MHz)				1711.5	1732.5	1753.5	Turn-up limit (dB)	MFR (dB)		
3	QPSK	1	0	23.01	23.15	23.19				
3	QPSK	1	4	22.93	23.13	23.13	24.5	0		
3	QPSK	1	14	22.90	23.10	23.07				
3	QPSK	8	0	21.93	22.14	22.02	23.5	1		
3	QPSK	8	4	22.02	22.12	22.10				
3	QPSK	8	7	21.92	22.11	22.12				
3	QPSK	15	0	21.92	22.09	22.03	23.5	1		
3	16QAM	1	0	22.00	22.08	22.06				
3	16QAM	1	4	22.06	22.23	22.13				
3	16QAM	1	14	21.99	22.13	22.10	22.5	2		
3	16QAM	8	0	20.98	21.16	21.08				
3	16QAM	8	4	20.98	21.17	21.07				
3	16QAM	8	7	20.99	21.14	21.06	21.5	3		
3	16QAM	15	0	20.82	21.01	20.96				
3	64QAM	1	8	20.90	21.18	21.08				
3	64QAM	8	4	20.93	21.09	21.03	22.5	2		
3	64QAM	8	7	20.94	21.09	21.04				
3	64QAM	15	0	19.87	20.15	20.12				
3	256QAM	1	0	17.75	17.98	17.78	19.5	5		
3	256QAM	1	8	17.83	18.11	17.91				
3	256QAM	8	7	17.82	18.04	17.84				
3	256QAM	8	7	17.88	18.05	18.03	19.5	5		
3	256QAM	15	0	17.81	18.03	18.00				
3	256QAM	15	8	17.85	18.01	18.00				
Channel				19975	20175	20375	Turn-up limit (dB)		MFR (dB)	
Frequency (MHz)				1710.7	1732.5	1754.3	Turn-up limit (dB)	MFR (dB)		
1.4	QPSK	1	0	23.01	23.12	23.13				
1.4	QPSK	1	4	22.92	23.13	23.13	24.5	0		
1.4	QPSK	1	5	22.93	23.16	23.14				
1.4	QPSK	3	0	22.86	23.17	23.03	23.5	1		
1.4	QPSK	3	4	22.95	23.16	23.15				
1.4	QPSK	3	3	22.90	23.17	23.14				
1.4	QPSK	3	3	22.90	23.17	23.14	23.5	1		
1.4	QPSK	8	0	21.95	22.26	22.17				
1.4	QPSK	8	4	21.96	22.25	22.20				
1.4	QPSK	8	7	21.95	22.24	22.21	22.5	2		
1.4	QPSK	15	0	21.01	21.14	21.12				
1.4	QPSK	15	4	21.02	21.11	21.07				
1.4	QPSK	15	7	21.04	21.17	21.07	21.5	3		

Band 12 Other PA Ant0													
RF (MHz)	Modulation	RE Size	RE Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Total-up limit (dB)						
Channel				2400.0	2409.5	2412.0							
Frequency (MHz)				704	707.5	711							
10	QPSK	1	0	24.50	24.50	24.44	25.5	0	24.5	1			
10	QPSK	1	25	24.37	24.44	24.45							
10	QPSK	1	49	24.40	24.50	24.45							
10	QPSK	25	0	23.70	23.74	23.63	24.5	1	23.6	1			
10	QPSK	25	12	23.63	23.67	23.61							
10	QPSK	25	25	23.49	23.64	23.58							
10	QPSK	50	0	23.55	23.59	23.55	24.5	1	23.5	1			
10	16QAM	1	0	23.47	23.62	23.58							
10	16QAM	1	25	23.59	23.68	23.62							
10	16QAM	1	49	23.54	23.57	23.48	23.5	2	23.5	2			
10	16QAM	25	0	22.55	22.66	22.62							
10	16QAM	25	12	22.81	22.66	22.52							
10	16QAM	25	25	22.44	22.51	22.44	23.5	2	22.4	3			
10	16QAM	50	0	22.54	22.61	22.58							
10	16QAM	1	0	22.54	22.66	22.54							
10	16QAM	1	25	22.60	22.68	22.54	22.5	3	21.8	5			
10	16QAM	1	49	22.70	22.78	22.61							
10	16QAM	25	0	21.48	21.75	21.65							
10	16QAM	25	12	21.61	21.86	21.84	20.5	5	19.5	5			
10	16QAM	25	25	21.60	21.76	21.65							
10	16QAM	50	0	21.90	22.04	21.92							
10	256QAM	1	0	20.00	20.13	19.99	20.5	5	19.9	5			
10	256QAM	1	25	19.81	19.92	19.88							
10	256QAM	1	49	20.05	20.17	20.08							
10	256QAM	25	0	19.47	19.55	19.52	20.5	5	19.5	5			
10	256QAM	25	12	19.80	19.84	19.75							
10	256QAM	25	25	19.60	19.72	19.67							
10	256QAM	50	0	19.65	19.69	19.62							
Channel				2403.5	2409.5	2418.5							
Frequency (MHz)				701.5	707.5	713.5							
5	QPSK	1	0	24.42	24.46	24.36	25.5	0	24.3	1			
5	QPSK	1	12	24.34	24.34	24.35							
5	QPSK	1	24	24.27	24.38	24.37							
5	QPSK	12	0	23.57	23.63	23.55	24.5	1	23.5	1			
5	QPSK	12	7	23.61	23.63	23.64							
5	QPSK	12	13	23.39	23.55	23.50							
5	16QAM	1	0	23.44	23.58	23.49	24.5	1	23.4	1			
5	16QAM	1	12	23.36	23.53	23.49							
5	16QAM	1	24	23.39	23.51	23.38							
5	16QAM	12	0	22.48	22.54	22.55	23.5	2	22.4	2			
5	16QAM	12	7	22.49	22.51	22.48							
5	16QAM	12	13	22.31	22.48	22.41							
5	16QAM	25	0	22.74	22.85	22.73	23.5	2	22.4	3			
5	16QAM	1	0	22.45	22.62	22.41							
5	16QAM	1	12	22.50	22.66	22.49							
5	16QAM	1	24	22.80	22.83	22.54	22.5	3	21.5	5			
5	16QAM	12	0	21.42	21.55	21.41							
5	16QAM	12	7	21.71	21.80	21.73							
5	16QAM	12	13	21.53	21.68	21.51	20.5	5	19.5	5			
5	16QAM	25	0	21.85	21.97	21.77							
5	256QAM	1	0	19.88	19.99	19.89							
5	256QAM	1	12	19.76	19.81	19.75	20.5	5	19.5	5			
5	256QAM	1	24	19.97	20.14	19.91							
5	256QAM	12	0	19.41	19.42	19.39							
5	256QAM	12	7	19.69	19.74	19.57	20.5	5	19.5	5			
5	256QAM	12	13	19.45	19.59	19.51							
5	256QAM	25	0	19.71	19.82	19.73							
Channel				2405.5	2409.5	2418.5							
Frequency (MHz)				703.5	707.5	714.5							
3	QPSK	1	0	24.40	24.52	24.41	25.5	0	24.4	1			
3	QPSK	1	8	24.34	24.34	24.34							
3	QPSK	1	14	24.36	24.40	24.38							
3	QPSK	8	0	23.68	23.68	23.49	24.5	1	23.5	1			
3	QPSK	8	4	23.55	23.59	23.58							
3	QPSK	8	7	23.39	23.52	23.53							
3	16QAM	1	0	23.50	23.62	23.48	24.5	1	23.4	1			
3	16QAM	1	8	23.39	23.49	23.49							
3	16QAM	1	8	23.47	23.53	23.55							
3	16QAM	1	14	23.48	23.43	23.38	23.5	2	22.4	2			
3	16QAM	8	0	22.45	22.58	22.59							
3	16QAM	8	4	22.47	22.59	22.48							
3	16QAM	8	7	22.39	22.40	22.45	23.5	2	22.4	3			
3	16QAM	15	0	22.77	22.77	22.79							
3	16QAM	1	0	22.44	22.57	22.41							
3	16QAM	1	8	22.56	22.58	22.39	22.5	3	21.5	5			
3	16QAM	1	14	22.59	22.73	22.52							
3	16QAM	8	0	21.44	21.55	21.43							
3	16QAM	8	4	21.77	21.83	21.75	20.5	5	19.5	5			
3	16QAM	8	7	21.49	21.61	21.52							
3	16QAM	15	0	21.79	22.00	21.83							
3	256QAM	1	0	19.86	20.01	19.89	20.5	5	19.5	5			
3	256QAM	1	8	19.67	19.80	19.77							
3	256QAM	1	14	19.98	20.04	19.82							
3	256QAM	8	0	19.43	19.50	19.43	20.5	5	19.5	5			
3	256QAM	8	4	19.72	19.70	19.59							
3	256QAM	8	7	19.48	19.59	19.53							
3	256QAM	15	0	19.81	19.81	19.81							
Channel				2401.7	2409.5	2417.3							
Frequency (MHz)				699.7	707.5	716.3							
1.4	QPSK	1	0	24.41	24.49	24.23	25.5	0	24.3	1			
1.4	QPSK	1	3	24.34	24.38	24.25							
1.4	QPSK	1	5	24.35	24.41	24.38							
1.4	QPSK	3	0	24.40	24.44	24.26	24.5	1	23.5	1			
1.4	QPSK	3	1	24.25	24.35	24.30							
1.4	QPSK	3	3	24.30	24.41	24.32							
1.4	16QAM	1	0	23.18	23.69	23.54	24.5	1	23.5	1			
1.4	16QAM	1	0	23.51	23.54	23.53							
1.4	16QAM	1	3	23.39	23.52	23.52							
1.4	16QAM	1	5	23.46	23.69	23.47	23.5	2	22.4	2			
1.4	16QAM	3	0	23.42	23.48	23.47							
1.4	16QAM	3	1	23.50	23.59	23.56							
1.4	16QAM	3	3	23.44	23.48	23.35	20.5	5	19.5	5			
1.4	16QAM	8	0	22.61	22.61	22.47							
1.4	16QAM	1	0	22.49	22.54	22.44							
1.4	16QAM	1	3	22.40	22.43	22.38	23.5	2	22.4	3			
1.4	16QAM	1	5	22.45	22.50	22.42							
1.4	16QAM	3	0	22.47	22.59	22.47							
1.4	16QAM	3	1	22.50	22.60	22.47	22.5	3	21.5	5			
1.4	16QAM	3	3	22.59	22.62	22.55							
1.4	16QAM	4	0	21.58	21.62	21.59							
1.4	256QAM	1	0	19.89	19.98	19.85	20.5	5	19.5	5			
1.4	256QAM	1	3	19.69	19.89	19.74							
1.4	256QAM	1	5	19.70	19.73	19.67							
1.4	256QAM	3	0	19.68	19.80	19.73	20.5	5	19.5	5			
1.4	256QAM	3	1	19.70	19.76	19.73							
1.4	256QAM	3	3	19.79	19.76	19.73							



Band 17 Other PA Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up Intvl (min)	APRS (dB)	
Channel				23705	23769	23805			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.43	24.51	24.46			
10	QPSK	1	26	24.31	24.40	24.36	25.5	0	
10	QPSK	1	49	24.38	24.47	24.33			
10	QPSK	25	0	23.64	23.68	23.67			
10	QPSK	25	14	23.45	23.59	23.46	24.5	1	
10	QPSK	25	26	23.34	23.48	23.34			
10	QPSK	50	0	23.48	23.59	23.49			
10	16QAM	1	0	23.46	23.50	23.42			
10	16QAM	1	26	23.29	23.42	23.32	24.5	1	
10	16QAM	1	49	23.21	23.34	23.26			
10	16QAM	25	0	22.58	22.73	22.62			
10	16QAM	25	12	22.69	22.72	22.58	23.5	2	
10	16QAM	25	25	22.69	22.73	22.62			
10	16QAM	50	0	22.67	22.79	22.73			
10	64QAM	1	0	22.43	22.59	22.41			
10	64QAM	1	26	22.50	22.54	22.46	23.5	2	
10	64QAM	1	49	22.36	22.50	22.51			
10	64QAM	25	0	21.59	21.66	21.59			
10	64QAM	25	12	21.68	21.77	21.66	22.5	3	
10	64QAM	25	25	21.50	21.56	21.49			
10	64QAM	50	0	21.59	21.66	21.62			
10	256QAM	1	0	19.62	19.69	19.61			
10	256QAM	1	26	19.63	19.69	19.76	20.5	5	
10	256QAM	1	49	19.59	19.70	19.66			
10	256QAM	25	0	19.47	19.58	19.46			
10	256QAM	25	12	19.52	19.60	19.59	20.5	5	
10	256QAM	25	25	19.50	19.54	19.43			
10	256QAM	50	0	19.60	19.67	19.58			
Channel				23705	23769	23805	Tune-up Intvl (min)	APRS (dB)	
Frequency (MHz)				709.5	710	711.5			
5	QPSK	1	0	24.39	24.45	24.43			
5	QPSK	1	12	24.24	24.30	24.25	25.5	0	
5	QPSK	1	24	24.35	24.38	24.22			
5	QPSK	12	0	23.59	23.61	23.49			
5	QPSK	12	7	23.40	23.47	23.39	24.5	1	
5	QPSK	12	19	23.28	23.42	23.25			
5	QPSK	25	0	23.44	23.59	23.39			
5	16QAM	1	0	23.32	23.45	23.31			
5	16QAM	1	12	23.20	23.32	23.26	24.5	1	
5	16QAM	1	24	23.07	23.29	23.22			
5	16QAM	12	0	22.64	22.61	22.51			
5	16QAM	12	7	22.66	22.59	22.54	23.5	2	
5	16QAM	12	15	22.58	22.59	22.51			
5	16QAM	25	0	22.57	22.67	22.63			
5	64QAM	1	0	22.38	22.37	22.37			
5	64QAM	1	12	22.41	22.46	22.37	23.5	2	
5	64QAM	1	24	22.22	22.27	22.15			
5	64QAM	12	0	21.44	21.58	21.53			
5	64QAM	12	7	21.60	21.70	21.54	22.5	3	
5	64QAM	12	19	21.37	21.51	21.35			
5	64QAM	25	0	21.44	21.57	21.49			
5	256QAM	1	0	19.76	19.70	19.68			
5	256QAM	1	12	19.72	19.75	19.66	20.5	5	
5	256QAM	1	24	19.48	19.59	19.53			
5	256QAM	12	0	19.37	19.46	19.33			
5	256QAM	12	7	19.39	19.47	19.43	20.5	5	
5	256QAM	12	19	19.44	19.48	19.53			
5	256QAM	25	0	19.56	19.63	19.52			

Band 12 Other PA Ant1										
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Total up limit (dBm)	MPE (dB)		
Channel				2340.0	2359.5	2379.0				
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	23.69	23.74	23.67				
10	QPSK	1	25	23.59	23.66	23.61	25.5	0		
10	QPSK	1	49	23.67	23.61	23.62				
10	QPSK	25	0	22.66	22.76	22.67				
10	QPSK	25	12	22.56	22.70	22.69	24.5	1		
10	QPSK	25	25	22.65	22.65	22.69				
10	QPSK	50	0	22.59	22.72	22.67				
10	16QAM	1	0	22.58	22.67	22.55				
10	16QAM	1	25	22.53	22.61	22.59	24.5	1		
10	16QAM	1	49	22.54	22.57	22.53				
10	16QAM	25	0	21.73	21.81	21.71				
10	16QAM	25	12	21.70	21.73	21.65	23.5	2		
10	16QAM	25	25	21.63	21.77	21.66				
10	16QAM	50	0	21.68	21.71	21.57				
10	64QAM	1	0	21.65	21.79	21.70				
10	64QAM	1	25	21.59	21.72	21.66	23.5	2		
10	64QAM	1	49	21.65	21.69	21.64				
10	64QAM	25	0	20.90	20.95	20.89				
10	64QAM	25	12	20.82	20.89	20.76	22.5	3		
10	64QAM	25	25	20.91	20.91	20.84				
10	64QAM	50	0	20.68	20.83	20.72				
10	256QAM	1	0	18.85	18.96	18.82				
10	256QAM	1	25	18.83	18.93	18.89	20.5	5		
10	256QAM	1	49	18.85	18.88	18.74				
10	256QAM	25	0	18.78	18.87	18.84				
10	256QAM	25	12	18.68	18.77	18.72	20.5	5		
10	256QAM	25	25	18.74	18.83	18.69				
10	256QAM	50	0	18.65	18.91	18.82				
Channel				2353.5	2369.5	2385.5				
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	23.62	23.67	23.58				
5	QPSK	1	12	23.67	23.58	23.56	25.5	0		
5	QPSK	1	24	23.67	23.55	23.62				
5	QPSK	12	0	22.55	22.67	22.54				
5	QPSK	12	7	22.51	22.84	22.69	24.5	1		
5	QPSK	12	13	22.51	22.62	22.62				
5	QPSK	25	0	22.55	22.67	22.53				
5	16QAM	1	0	22.57	22.55	22.58				
5	16QAM	1	12	22.51	22.55	22.59	24.5	1		
5	16QAM	1	24	22.59	22.54	22.59				
5	16QAM	12	0	21.65	21.74	21.63				
5	16QAM	12	7	21.61	21.63	21.59	23.5	2		
5	16QAM	12	13	21.63	21.66	21.58				
5	16QAM	25	0	21.53	21.58	21.51				
5	64QAM	1	0	21.54	21.71	21.58				
5	64QAM	1	12	21.55	21.54	21.64	23.5	2		
5	64QAM	1	24	21.51	21.61	21.58				
5	64QAM	12	0	20.77	20.90	20.83				
5	64QAM	12	7	20.69	20.79	20.65	22.5	3		
5	64QAM	12	13	20.67	20.85	20.72				
5	64QAM	25	0	20.56	20.80	20.60				
5	256QAM	1	0	18.71	18.90	18.73				
5	256QAM	1	12	18.74	18.82	18.81	20.5	5		
5	256QAM	1	24	18.73	18.77	18.65				
5	256QAM	12	0	18.64	18.78	18.77				
5	256QAM	12	7	18.59	18.67	18.63	20.5	5		
5	256QAM	12	13	18.62	18.74	18.65				
5	256QAM	25	0	18.79	18.86	18.74				
Channel				2366.5	2369.5	2378.5				
Frequency (MHz)				700.5	707.5	714.5				
3	QPSK	1	0	23.64	23.63	23.60				
3	QPSK	1	8	23.57	23.56	23.58	25.5	0		
3	QPSK	1	14	23.53	23.57	23.59				
3	QPSK	8	0	22.62	22.66	22.62				
3	QPSK	8	4	22.58	22.57	22.51	24.5	1		
3	QPSK	8	7	22.56	22.54	22.55				
3	QPSK	16	0	22.50	22.58	22.67				
3	16QAM	1	0	22.59	22.54	22.59				
3	16QAM	1	8	22.58	22.51	22.60	24.5	1		
3	16QAM	1	14	22.63	22.59	22.61				
3	16QAM	8	0	21.59	21.75	21.65				
3	16QAM	8	4	21.58	21.67	21.61	23.5	2		
3	16QAM	8	7	21.56	21.72	21.65				
3	16QAM	16	0	21.55	21.63	21.54				
3	64QAM	1	0	21.60	21.72	21.63				
3	64QAM	1	8	21.56	21.64	21.60	23.5	2		
3	64QAM	1	14	21.59	21.64	21.57				
3	64QAM	8	0	20.79	20.89	20.79				
3	64QAM	8	4	20.77	20.71	20.72	22.5	3		
3	64QAM	8	7	20.74	20.79	20.73				
3	64QAM	16	0	20.63	20.75	20.61				
3	256QAM	1	0	18.72	18.88	18.79				
3	256QAM	1	8	18.76	18.78	18.79	20.5	5		
3	256QAM	1	14	18.79	18.84	18.61				
3	256QAM	8	0	18.70	18.82	18.72				
3	256QAM	8	4	18.68	18.71	18.61	20.5	5		
3	256QAM	8	7	18.62	18.79	18.63				
3	256QAM	16	0	18.73	18.87	18.72				
Channel				2381.7	2369.5	2371.3				
Frequency (MHz)				699.7	707.5	716.3				
1.4	QPSK	1	0	23.64	23.65	23.58				
1.4	QPSK	1	3	23.52	23.51	23.55	25.5	0		
1.4	QPSK	1	5	23.58	23.70	23.65				
1.4	QPSK	3	0	23.55	23.63	23.59				
1.4	QPSK	3	1	23.59	23.58	23.59				
1.4	QPSK	3	3	23.62	23.62	23.54	24.5	1		
1.4	QPSK	6	0	22.68	22.72	22.61				
1.4	16QAM	1	0	22.62	22.68	22.59				
1.4	16QAM	1	3	22.64	22.51	22.67	24.5	1		
1.4	16QAM	1	5	22.54	22.60	22.53				
1.4	16QAM	3	0	22.84	22.67	22.61				
1.4	16QAM	3	1	22.51	22.67	22.60				
1.4	16QAM	3	3	22.56	22.52	22.68				
1.4	16QAM	6	0	21.66	21.75	21.68	23.5	2		
1.4	64QAM	1	0	21.59	21.69	21.62				
1.4	64QAM	1	3	21.59	21.67	21.52				
1.4	64QAM	1	5	21.84	21.58	21.62	23.5	2		
1.4	64QAM	3	0	21.55	21.71	21.60				
1.4	64QAM	3	1	21.50	21.68	21.63				
1.4	64QAM	3	3	21.53	21.58	21.53				
1.4	64QAM	6	0	20.74	20.82	20.66	22.5	3		
1.4	256QAM	1	0	18.75	18.87	18.87				
1.4	256QAM	1	3	18.77	18.87	18.79				
1.4	256QAM	1	5	18.79	18.74	18.61	20.5	5		
1.4	256QAM	3	0	18.70	18.73	18.74				
1.4	256QAM	3	1	18.65	18.67	18.60				
1.4	256QAM	3	3	18.66	18.75	18.59				
1.4	256QAM	6	0	18.79	18.78	18.76	20.5	5		

Band 17 Other PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dB)	APRS (dB)	
Channel				-21.90	-20.90	-20.00			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	23.57	23.70	23.59			
10	QPSK	1	20	23.54	23.50	23.51	20.5	0	
10	QPSK	1	40	23.55	23.59	23.51			
10	QPSK	25	0	22.60	22.60	22.58			
10	QPSK	25	12	22.53	22.59	22.55			
10	QPSK	25	25	22.53	22.58	22.56			
10	QPSK	50	0	22.57	22.61	22.54			
10	16QAM	1	0	22.50	22.56	22.59			
10	16QAM	1	20	22.57	22.53	22.51	24.5	1	
10	16QAM	1	40	22.53	22.59	22.52			
10	16QAM	25	0	21.81	21.71	21.66			
10	16QAM	25	12	21.81	21.58	21.56			
10	16QAM	25	25	21.81	21.72	21.52			
10	16QAM	50	0	21.57	21.60	21.58			
10	64QAM	1	0	21.50	21.74	21.63			
10	64QAM	1	20	21.58	21.59	21.63			
10	64QAM	1	40	21.54	21.66	21.60	23.5	2	
10	64QAM	25	0	20.86	20.87	20.85			
10	64QAM	25	12	20.71	20.81	20.86			
10	64QAM	25	25	20.71	20.78	20.76	22.5	3	
10	64QAM	50	0	20.53	20.73	20.63			
10	256QAM	1	0	18.72	18.90	18.81			
10	256QAM	1	20	18.73	18.78	18.74	20.5	5	
10	256QAM	1	40	18.78	18.84	18.83			
10	256QAM	25	0	18.69	18.76	18.73			
10	256QAM	25	12	18.57	18.67	18.63			
10	256QAM	25	25	18.65	18.72	18.55	20.5	5	
10	256QAM	50	0	18.72	18.87	18.71			
Channel				217.05	217.50	218.05	Tune-up limit (dB)	APRS (dB)	
Frequency (MHz)				706.5	710	711.5			
5	QPSK	1	0	23.51	23.65	23.54			
5	QPSK	1	12	23.53	23.55	23.57	20.5	0	
5	QPSK	1	24	23.54	23.64	23.56			
5	QPSK	12	0	22.72	22.83	22.67			
5	QPSK	12	7	22.52	22.74	22.69			
5	QPSK	12	13	22.58	22.72	22.59	24.5	1	
5	QPSK	20	0	22.63	22.72	22.54			
5	16QAM	1	0	22.67	22.60	22.56			
5	16QAM	1	12	22.55	22.66	22.57	24.5	1	
5	16QAM	1	24	22.51	22.59	22.58			
5	16QAM	12	0	21.75	21.84	21.73			
5	16QAM	12	7	21.72	21.67	21.61			
5	16QAM	12	13	21.61	21.69	21.58	23.5	2	
5	16QAM	25	0	21.58	21.69	21.56			
5	64QAM	1	0	21.59	21.72	21.67			
5	64QAM	1	12	21.54	21.60	21.50	23.5	2	
5	64QAM	1	24	21.51	21.61	21.52			
5	64QAM	12	0	20.92	20.90	20.85			
5	64QAM	12	7	20.83	20.76	20.65			
5	64QAM	12	13	20.73	20.75	20.74	22.5	3	
5	64QAM	25	0	20.65	20.69	20.59			
5	256QAM	1	0	18.72	18.90	18.81			
5	256QAM	1	12	18.72	18.85	18.77	20.5	5	
5	256QAM	1	24	18.79	18.81	18.69			
5	256QAM	12	0	18.75	18.72	18.69			
5	256QAM	12	7	18.60	18.70	18.61			
5	256QAM	12	13	18.66	18.73	18.57	20.5	5	
5	256QAM	25	0	18.68	18.93	18.69			

DSI 3 Power for WWAN Other PA

Band 5 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600	25.5	0	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	24.82	24.85	24.77	25.5	0	
10	QPSK	1	25	24.74	24.73	24.69			
10	QPSK	1	49	24.68	24.68	24.61			
10	QPSK	25	0	23.64	23.75	23.66	24.5	1	
10	QPSK	25	12	23.84	23.85	23.84			
10	QPSK	25	25	23.67	23.58	23.65			
10	QPSK	50	0	23.59	23.72	23.62	24.5	1	
10	16QAM	1	0	23.73	23.86	23.73			
10	16QAM	1	25	23.74	23.80	23.71			
10	16QAM	1	49	23.70	23.76	23.67	23.5	2	
10	16QAM	25	0	22.79	22.91	22.78			
10	16QAM	25	12	22.70	22.77	22.71			
10	16QAM	25	25	22.66	22.71	22.66	23.5	2	
10	16QAM	50	0	22.69	22.80	22.70			
10	64QAM	1	0	22.74	22.84	22.71	23.5	2	
10	64QAM	1	25	22.61	22.76	22.70			
10	64QAM	1	49	22.59	22.69	22.62			
10	64QAM	25	0	21.79	21.89	21.79	22.5	3	
10	64QAM	25	12	21.65	21.76	21.69			
10	64QAM	25	25	21.71	21.82	21.72			
10	64QAM	50	0	21.68	21.81	21.73	20.5	5	
10	256QAM	1	0	19.52	19.65	19.58			
10	256QAM	1	25	19.42	19.56	19.47			
10	256QAM	1	49	19.42	19.52	19.41	20.5	5	
10	256QAM	25	0	19.54	19.60	19.52			
10	256QAM	25	12	19.44	19.54	19.39			
10	256QAM	25	25	19.36	19.47	19.33	20.5	5	
10	256QAM	50	0	19.45	19.52	19.37			
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	25.5	0	
5	QPSK	1	0	24.73	24.77	24.64			
5	QPSK	1	12	24.61	24.66	24.57	24.5	1	
5	QPSK	1	24	24.61	24.54	24.54			
5	QPSK	12	0	23.57	23.67	23.56			
5	QPSK	12	7	23.58	23.54	23.55	24.5	1	
5	QPSK	12	13	23.54	23.43	23.58			
5	QPSK	25	0	23.46	23.58	23.55			
5	16QAM	1	0	23.64	23.80	23.67	24.5	1	
5	16QAM	1	12	23.62	23.73	23.60			
5	16QAM	1	24	23.62	23.63	23.58			
5	16QAM	12	0	22.67	22.82	22.65	23.5	2	
5	16QAM	12	7	22.63	22.63	22.60			
5	16QAM	12	13	22.54	22.62	22.57			
5	16QAM	25	0	22.63	22.69	22.60	23.5	2	
5	64QAM	1	0	22.68	22.74	22.63			
5	64QAM	1	12	22.51	22.64	22.58			
5	64QAM	1	24	22.47	22.59	22.50	22.5	3	
5	64QAM	12	0	21.67	21.77	21.71			
5	64QAM	12	7	21.58	21.62	21.60			
5	64QAM	12	13	21.66	21.68	21.61	20.5	5	
5	64QAM	25	0	21.60	21.75	21.61			
5	256QAM	1	0	19.45	19.56	19.44			
5	256QAM	1	12	19.34	19.49	19.38	20.5	5	
5	256QAM	1	24	19.33	19.44	19.29			
5	256QAM	12	0	19.46	19.45	19.41			
5	256QAM	12	7	19.33	19.45	19.33	20.5	5	
5	256QAM	12	13	19.27	19.40	19.20			
5	256QAM	25	0	19.32	19.41	19.28			
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				825.5	836.5	847.5	25.5	0	
3	QPSK	1	0	24.77	24.77	24.65			
3	QPSK	1	8	24.65	24.63	24.55	24.5	1	
3	QPSK	1	14	24.54	24.54	24.52			
3	QPSK	8	0	23.50	23.58	23.55			
3	QPSK	8	4	23.50	23.60	23.59	24.5	1	
3	QPSK	8	7	23.56	23.52	23.52			
3	QPSK	15	0	23.51	23.57	23.48			
3	16QAM	1	0	23.66	23.81	23.59	24.5	1	
3	16QAM	1	8	23.60	23.67	23.60			
3	16QAM	1	14	23.62	23.62	23.60			
3	16QAM	8	0	22.71	22.85	22.72	23.5	2	
3	16QAM	8	4	22.56	22.70	22.65			
3	16QAM	8	7	22.55	22.57	22.53			
3	16QAM	15	0	22.58	22.67	22.65	23.5	2	
3	64QAM	1	0	22.60	22.78	22.61			
3	64QAM	1	8	22.52	22.70	22.59			
3	64QAM	1	14	22.45	22.63	22.50	22.5	3	
3	64QAM	8	0	21.68	21.80	21.67			
3	64QAM	8	4	21.51	21.64	21.57			
3	64QAM	8	7	21.57	21.68	21.61	20.5	5	
3	64QAM	15	0	21.60	21.70	21.65			
3	256QAM	1	0	19.42	19.50	19.52			
3	256QAM	1	8	19.32	19.44	19.33	20.5	5	
3	256QAM	1	14	19.35	19.45	19.36			
3	256QAM	8	0	19.47	19.51	19.44			
3	256QAM	8	4	19.39	19.47	19.33	20.5	5	
3	256QAM	8	7	19.27	19.38	19.23			
3	256QAM	15	0	19.34	19.41	19.24			
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.7	836.5	848.3	25.5	0	
1.4	QPSK	1	0	24.74	24.78	24.64			
1.4	QPSK	1	3	24.63	24.67	24.54	24.5	1	
1.4	QPSK	1	5	24.61	24.55	24.50			
1.4	QPSK	3	0	23.56	23.68	23.59			
1.4	QPSK	3	1	23.51	23.57	23.52	24.5	1	
1.4	QPSK	3	3	23.55	23.51	23.59			
1.4	QPSK	6	0	23.46	23.62	23.49			
1.4	16QAM	1	0	23.61	23.79	23.58	24.5	1	
1.4	16QAM	1	3	23.66	23.69	23.62			
1.4	16QAM	1	5	23.60	23.65	23.56			
1.4	16QAM	3	0	23.59	23.75	23.64	23.5	2	
1.4	16QAM	3	1	23.64	23.67	23.63			
1.4	16QAM	3	3	23.55	23.63	23.52			
1.4	16QAM	6	0	22.74	22.81	22.69	23.5	2	
1.4	64QAM	1	0	22.63	22.69	22.66			
1.4	64QAM	1	3	22.57	22.58	22.53			
1.4	64QAM	1	5	22.56	22.71	22.56	22.5	3	
1.4	64QAM	3	0	22.64	22.77	22.63			
1.4	64QAM	3	1	22.49	22.66	22.59			
1.4	64QAM	3	3	22.49	22.61	22.48	20.5	5	
1.4	64QAM	6	0	21.70	21.76	21.64			
1.4	256QAM	1	0	19.47	19.55	19.51			
1.4	256QAM	1	3	19.34	19.42	19.38	20.5	5	
1.4	256QAM	1	5	19.30	19.42	19.30			
1.4	256QAM	3	0	19.40	19.49	19.38			
1.4	256QAM	3	1	19.32	19.41	19.27	20.5	5	
1.4	256QAM	3	3	19.22	19.32	19.19			
1.4	256QAM	6	0	19.31	19.42	19.32			

Band 4 Other PA Ant1												
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Mod Ch./Frac	Power Med Mod Ch./Frac	Power High Mod Ch./Frac	Turn-up time (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	24.44	24.44	24.41	25.5	0				
20	QPSK	1	40	24.34	24.47	24.32						
20	QPSK	1	99	24.29	24.42	24.38						
20	QPSK	50	0	23.31	23.53	23.33	24.5	1				
20	QPSK	50	24	23.39	23.43	23.40						
20	QPSK	50	50	23.37	23.48	23.38						
20	HQAM	100	0	23.37	23.48	23.36	24.5	1				
20	HQAM	1	49	23.32	23.39	23.30						
20	HQAM	1	99	23.24	23.35	23.30						
20	HQAM	50	0	22.41	22.55	22.44	23.5	2				
20	HQAM	50	24	22.31	22.41	22.27						
20	HQAM	100	0	22.44	22.50	22.38						
20	HQAM	1	0	22.37	22.52	22.49	23.5	2				
20	HQAM	1	49	22.39	22.44	22.39						
20	HQAM	1	99	22.24	22.37	22.31						
20	HQAM	50	0	21.41	21.46	21.38	22.5	3				
20	HQAM	50	24	21.29	21.33	21.27						
20	HQAM	100	0	21.30	21.41	21.34						
20	HQAM	1	0	19.41	19.49	19.46	20.5	5				
20	HQAM	1	49	19.29	19.40	19.35						
20	HQAM	1	99	19.24	19.36	19.26						
20	HQAM	50	0	19.40	19.34	19.34	20.5	5				
20	HQAM	50	24	19.30	19.38	19.25						
20	HQAM	50	50	19.27	19.31	19.18						
20	HQAM	100	0	19.34	19.38	19.33	20.5	5				
Channel												
Frequency (MHz)												
15	QPSK	1	0	24.40	24.50	24.32	25.5	0				
15	QPSK	1	37	24.38	24.34	24.26						
15	QPSK	1	74	24.19	24.28	24.32						
15	QPSK	36	0	23.18	23.48	23.30	24.5	1				
15	QPSK	36	20	23.14	23.28	23.35						
15	QPSK	36	39	23.27	23.22	23.23						
15	HQAM	1	0	23.28	23.38	23.24	24.5	1				
15	HQAM	1	37	23.22	23.29	23.19						
15	HQAM	1	74	23.17	23.24	23.17						
15	HQAM	36	0	22.31	22.50	22.37	23.5	2				
15	HQAM	36	20	22.33	22.38	22.16						
15	HQAM	36	39	22.32	22.26	22.33						
15	HQAM	75	0	22.33	22.37	22.27	23.5	2				
15	HQAM	1	0	22.34	22.43	22.38						
15	HQAM	1	37	22.28	22.39	22.33						
15	HQAM	1	74	22.21	22.24	22.24	22.5	3				
15	HQAM	36	0	21.34	21.35	21.24						
15	HQAM	36	20	21.08	21.23	21.28						
15	HQAM	36	39	21.18	21.34	21.27	20.5	5				
15	HQAM	75	0	21.21	21.31	21.25						
15	HQAM	1	0	19.30	19.44	19.37						
15	HQAM	1	37	19.18	19.26	19.26	20.5	5				
15	HQAM	1	74	19.14	19.25	19.20						
15	HQAM	36	0	19.30	19.37	19.27						
15	HQAM	36	20	19.27	19.33	19.18	20.5	5				
15	HQAM	36	39	19.19	19.27	19.10						
15	HQAM	75	0	19.11	19.32	19.20						
Channel												
Frequency (MHz)												
10	QPSK	1	0	24.31	24.47	24.32	25.5	0				
10	QPSK	1	25	24.20	24.32	24.17						
10	QPSK	1	40	24.17	24.30	24.29						
10	QPSK	15	0	23.17	23.44	23.30	24.5	1				
10	QPSK	35	12	23.29	23.28	23.28						
10	QPSK	35	25	23.20	23.25	23.18						
10	HQAM	1	0	23.28	23.42	23.33	24.5	1				
10	HQAM	1	25	23.27	23.31	23.20						
10	HQAM	1	40	23.17	23.27	23.20						
10	HQAM	25	0	22.33	22.44	22.34	23.5	2				
10	HQAM	25	12	22.19	22.28	22.14						
10	HQAM	50	0	22.39	22.41	22.25						
10	HQAM	1	0	22.27	22.41	22.41	23.5	2				
10	HQAM	1	49	22.18	22.32	22.25						
10	HQAM	25	0	21.35	21.39	21.29						
10	HQAM	25	12	21.28	21.24	21.22	22.5	3				
10	HQAM	50	0	21.22	21.25	21.24						
10	HQAM	50	0	21.17	21.35	21.24						
10	HQAM	1	0	19.27	19.43	19.35	20.5	5				
10	HQAM	1	25	19.23	19.27	19.22						
10	HQAM	1	49	19.12	19.26	19.14						
10	HQAM	25	0	19.34	19.30	19.23	20.5	5				
10	HQAM	25	12	19.19	19.30	19.18						
10	HQAM	25	25	19.17	19.19	19.06						
10	HQAM	50	0	19.17	19.24	19.21	20.5	5				
Channel												
Frequency (MHz)												
5	QPSK	1	0	24.33	24.45	24.34	25.5	0				
5	QPSK	1	12	24.24	24.33	24.33						
5	QPSK	1	24	24.17	24.33	24.33						
5	QPSK	12	0	23.17	23.45	23.21	24.5	1				
5	QPSK	12	7	23.27	23.34	23.28						
5	QPSK	12	13	23.23	23.22	23.16						
5	HQAM	1	0	23.29	23.42	23.33	24.5	1				
5	HQAM	1	0	23.25	23.33	23.24						
5	HQAM	1	12	23.17	23.33	23.21						
5	HQAM	1	24	23.19	23.29	23.23	23.5	2				
5	HQAM	12	0	22.29	22.43	22.34						
5	HQAM	12	13	22.27	22.34	22.24						
5	HQAM	25	0	22.30	22.40	22.28	23.5	2				
5	HQAM	25	0	22.41	22.41	22.31						
5	HQAM	1	12	22.34	22.37	22.30						
5	HQAM	1	24	22.23	22.37	22.30	22.5	3				
5	HQAM	12	7	21.04	21.20	21.18						
5	HQAM	12	13	21.21	21.29	21.16						
5	HQAM	25	0	21.27	21.28	21.20	20.5	5				
5	HQAM	25	0	21.18	21.30	21.21						
5	HQAM	1	12	19.28	19.43	19.38						
5	HQAM	1	12	19.23	19.31	19.22	20.5	5				
5	HQAM	1	24	19.19	19.31	19.17						
5	HQAM	12	0	19.35	19.37	19.25						
5	HQAM	12	13	19.24	19.31	19.19	20.5	5				
5	HQAM	25	0	19.29	19.30	19.10						
5	HQAM	25	13	19.19	19.30	19.10						
5	HQAM	25	25	19.11	19.30	19.18	20.5	5				
Channel												
Frequency (MHz)												
3	QPSK	1	0	24.39	24.45	24.34	25.5	0				
3	QPSK	1	8	24.22	24.36	24.21						
3	QPSK	1	24	24.15	24.32	24.20						
3	QPSK	8	0	23.33	23.52	23.31	24.5	1				
3	QPSK	8	4	23.32	23.32	23.30						
3	QPSK	8	20	23.18	23.40	23.18						
3	QPSK	15	0	23.30	23.36	23.24	24.5	1				
3	HQAM	1	0	23.18	23.31	23.20						
3	HQAM	1	8	23.29	23.34	23.21						
3	HQAM	1	14	23.12	23.24	23.21	23.5	2				
3	HQAM	8	0	22.33	22.41	22.38						
3	HQAM	8	4	22.35	22.37	22.34						
3	HQAM	8	7	22.14	22.20	22.20	23.5	2				
3	HQAM	15	0	22.37	22.37	22.25						
3	HQAM	15	0	22.23	22.30	22.27						
3	HQAM	8	8	22.30	22.30	22.31	23.5	2				
3	HQAM	8	8	22.22	22.27	22.23						
3	HQAM	8	8	21.27	21.31	21.31						
3	HQAM	8	4	21.04	21.20	21.20	22.5	3				
3	HQAM	8	14	21.28	21.28	21.21						
3	HQAM	15	0	21.22	21.35	21.22						
3	HQAM	1	0	19.26	19.43	19.37	20.5	5				
3	HQAM	1	8	19.23	19.33	19.23						
3	HQAM	1	14	19.09	19.22	19.18						
3	HQAM	8	0	19.34	19.33	19.28	20.5	5				
3	HQAM	8	4	19.24	19.29	19.20						
3	HQAM	8	7	19.20	19.26	19.14						
3	HQAM	15	0	19.14	19.28	19.27	20.5	5				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	24.29	24.48	24.29	25.5	0				
1.4	QPSK	1	8	24.20	24.39	24.20						
1.4	QPSK	1	5	24.17	24.29	24.31						
1.4	QPSK	3	0	24.30	24.44	24.31	24.5	1				
1.4	QPSK	3	2	24.27	24.34	24.32						
1.4	QPSK	3	3	24.24	24.34	24.30						
1.4	QPSK	6	0	24.19	24.40	24.23	24.5	1				
1.4	HQAM	1	0	23.32	23.42	23.31						
1.4	HQAM	1	3	23.24	23.32	23.24						
1.4	HQAM	1	5	23.25	23.39	23.30	23.5	2				
1.4	HQAM	3	0	23.38	23.41	23.37						
1.4	HQAM	3	3	23.22	23.35	23.25						
1.4	HQAM	3	3	23.19	23.29	23.27	23.5	2				
1.4	HQAM	1	0	22.27	22.38	22.12						
1.4	HQAM	1	3	22.28	22.36	22.27						
1.4	HQAM	3	0	22.26	22.44	22.46	23.5	2				
1.4	HQAM	3	3	22.10	22.30	22.29						
1.4	HQAM	6	0	21.19	21.35	21.25						
1.4	HQAM	6	0	21.05	21.26	21.23	22.5	3				
1.4	HQAM	1	0	19.16	19.32	19.27						
1.4	HQAM	1	5	19.15	19.27	19.22						
1.4	HQAM	3	0	19.28	19.30	19.23	20.5	5				
1.4	HQAM	3	3	19.20	19.27	19.21						
1.4	HQAM	3	3	19.19	19.25	19.06						

Band 4 Other PA Ant2																
SW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dB)	MFR (dB)								
Channel				2000	20175	20398										
Frequency (MHz)				1720	1732.5	1745										
20	QPSK	1	0	23.68	23.85	23.77	24.5	0								
20	QPSK	1	49	23.87	23.73	23.81										
20	QPSK	1	99	23.65	23.76	23.66										
20	QPSK	50	0	22.69	22.82	22.75	23.5	1								
20	QPSK	50	24	22.87	22.81	22.86										
20	QPSK	50	50	22.71	22.79	22.74										
20	16QAM	100	0	22.64	22.76	22.68	23.5	1								
20	16QAM	1	0	22.69	22.75	22.67										
20	16QAM	1	49	22.54	22.69	22.62										
20	16QAM	1	99	22.57	22.65	22.58	22.5	2								
20	16QAM	50	0	21.64	21.71	21.58										
20	16QAM	50	24	21.43	21.57	21.49										
20	16QAM	100	0	21.55	21.64	21.54	22.5	2								
20	64QAM	1	0	21.55	21.69	21.58										
20	64QAM	1	49	21.48	21.61	21.49										
20	64QAM	1	99	21.48	21.54	21.42	21.5	3								
20	64QAM	50	0	20.52	20.62	20.50										
20	64QAM	50	24	20.38	20.49	20.35										
20	64QAM	50	50	20.45	20.55	20.49	19.5	5								
20	64QAM	100	0	20.52	20.58	20.51										
20	256QAM	1	0	18.48	18.53	18.50										
20	256QAM	1	49	18.43	18.49	18.40	19.5	5								
20	256QAM	1	99	18.37	18.45	18.39										
20	256QAM	50	0	18.43	18.50	18.43										
20	256QAM	50	24	18.36	18.44	18.30	19.5	5								
20	256QAM	50	50	18.28	18.37	18.29										
20	256QAM	100	0	18.32	18.44	18.36										
Channel				20005	20175	20398	Turn-up time (dB)	MFR (dB)								
Frequency (MHz)				1717.5	1725	1747.5										
15	QPSK	1	0	23.82	23.77	23.84	24.5	0								
15	QPSK	1	37	23.54	23.68	23.56										
15	QPSK	1	74	23.59	23.62	23.57										
15	QPSK	36	8	22.60	22.70	22.62	23.5	1								
15	QPSK	36	20	22.59	22.73	22.57										
15	QPSK	36	39	22.62	22.71	22.67										
15	QPSK	75	0	22.54	22.72	22.57	23.5	1								
15	16QAM	1	0	22.62	22.67	22.58										
15	16QAM	1	37	22.43	22.59	22.55										
15	16QAM	1	74	22.44	22.53	22.44	22.5	2								
15	16QAM	36	0	21.58	21.65	21.53										
15	16QAM	36	20	21.35	21.50	21.39										
15	16QAM	36	39	21.26	21.37	21.33	21.5	3								
15	16QAM	75	0	21.48	21.58	21.43										
15	64QAM	1	0	21.41	21.55	21.42										
15	64QAM	1	37	21.30	21.50	21.35	22.5	2								
15	64QAM	1	74	21.40	21.48	21.34										
15	64QAM	36	0	20.40	20.53	20.36										
15	64QAM	36	20	20.29	20.36	20.22	21.5	3								
15	64QAM	36	39	20.37	20.50	20.41										
15	64QAM	75	0	20.37	20.49	20.40										
15	256QAM	1	0	18.42	18.44	18.44	19.5	5								
15	256QAM	1	37	18.34	18.38	18.27										
15	256QAM	1	74	18.26	18.38	18.31										
15	256QAM	36	0	18.28	18.37	18.30	19.5	5								
15	256QAM	36	20	18.24	18.37	18.30										
15	256QAM	36	39	18.20	18.28	18.16										
15	256QAM	75	0	18.25	18.37	18.22	20000	20175	20398	Turn-up time (dB)	MFR (dB)					
Channel				20000	20175 <th>20398</th>	20398										
Frequency (MHz)				23.82	23.76	23.84										
10	QPSK	1	0	23.58	23.59	23.53	24.5	0								
10	QPSK	1	25	23.55	23.59	23.53										
10	QPSK	1	49	23.54	23.71	23.55										
10	QPSK	25	0	22.60	22.70	22.57	23.5	1								
10	QPSK	25	12	22.55	22.73	22.61										
10	QPSK	25	25	22.63	22.72	22.64										
10	QPSK	50	0	22.58	22.67	22.55	23.5	1								
10	16QAM	1	0	22.61	22.61	22.58										
10	16QAM	1	25	22.44	22.63	22.54										
10	16QAM	1	49	22.49	22.55	22.45	22.5	2								
10	16QAM	25	0	21.49	21.59	21.51										
10	16QAM	25	12	21.31	21.49	21.42										
10	16QAM	25	25	21.22	21.43	21.33	21.5	3								
10	16QAM	50	0	21.45	21.52	21.46										
10	64QAM	1	0	21.42	21.58	21.50										
10	64QAM	1	25	21.35	21.50	21.38	22.5	2								
10	64QAM	1	49	21.36	21.40	21.35										
10	64QAM	25	0	20.39	20.53	20.43										
10	64QAM	25	12	20.29	20.43	20.23	21.5	3								
10	64QAM	25	25	20.38	20.47	20.41										
10	64QAM	50	0	20.43	20.43	20.36										
10	256QAM	1	0	18.39	18.48	18.44	19.5	5								
10	256QAM	1	25	18.30	18.39	18.30										
10	256QAM	1	49	18.26	18.37	18.32										
10	256QAM	25	0	18.36	18.42	18.31	19.5	5								
10	256QAM	25	12	18.23	18.32	18.23										
10	256QAM	25	25	18.18	18.23	18.21										
10	256QAM	50	0	18.20	18.31	18.23	19975	20175	20375	Turn-up time (dB)	MFR (dB)					
Channel				1725.5	1732.5	1742.5										
Frequency (MHz)				23.82	23.78	23.83										
5	QPSK	1	0	23.58	23.66	23.48	24.5	0								
5	QPSK	1	12	23.58	23.66	23.48										
5	QPSK	1	24	23.55	23.62	23.52										
5	QPSK	12	0	22.62	22.70	22.63	23.5	1								
5	QPSK	12	7	22.62	22.74	22.60										
5	QPSK	12	13	22.66	22.75	22.61										
5	QPSK	25	0	22.53	22.65	22.53	23.5	1								
5	QPSK	25	12	22.47	22.68	22.47										
5	QPSK	25	24	22.63	22.65	22.58										
5	16QAM	1	0	22.63	22.65	22.58	23.5	1								
5	16QAM	1	12	22.47	22.68	22.47										
5	16QAM	1	24	22.43	22.59	22.47										
5	16QAM	12	0	21.49	21.58	21.48	22.5	2								
5	16QAM	12	7	21.28	21.48	21.38										
5	16QAM	12	13	21.24	21.46	21.37										
5	16QAM	25	0	21.58	21.58	21.51	22.5	2								
5	16QAM	25	12	21.46	21.58	21.42										
5	16QAM	25	24	21.39	21.50	21.38										
5	16QAM	50	0	21.48	21.48	21.41	21.5	3								
5	16QAM	50	12	20.39	20.49	20.37										
5	16QAM	50	24	20.33	20.42	20.28										
5	16QAM	100	0	20.42	20.42	20.35	19.5	5								
5	16QAM	100	12	19.36	19.44	19.38										
5	16QAM	100	24	19.32	19.42	19.31										
5	256QAM	1	0	18.38	18.44	18.38	19.5	5								
5	256QAM	1	12	18.30	18.38	18.31										
5	256QAM	1	24	18.26	18.38	18.31										
5	256QAM	12	0	18.38	18.40	18.31	19.5	5								
5	256QAM	12	7	18.25	18.33	18.21										
5	256QAM	12	13	18.19	18.23	18.23										
5	256QAM	25	0	18.18	18.36	18.24	19975	20175	20375	Turn-up time (dB)	MFR (dB)					
Channel				1715	1725.5	1735										
Frequency (MHz)				1717.5	1725	1747.5										
3	QPSK	1	0	23.54	23.72	23.66	24.5	0								
3	QPSK	1	14	23.54	23.70	23.58										
3	QPSK	1	28	23.55	23.68	23.55										
3	QPSK	8	0	22.65	22.66	22.61	23.5	1								
3	QPSK	8	7	22.68	22.69	22.62										
3	QPSK	8	14	22.65	22.66	22.61										
3	QPSK	15	0	22.51	22.68	22.54	23.5	1								
3	QPSK	15	7	22.59	22.68	22.56										
3	QPSK	15	14	22.58	22.65	22.54										
3	16QAM	1	0	22.40	22.60	22.54	23.5	1								
3	16QAM	1	14	22.43	22.54	22.47										
3	16QAM	1	28	22.57	22.62	22.56										
3	16QAM	8	0	21.36	21.48	21.41	22.5	2								
3	16QAM	8	7	21.24	21.36	21.37										
3	16QAM	8	14	21.21	21.48	21.41										
3	16QAM	15	0	21.43	21.61	21.51	22.5	2								
3	16QAM	15	7	21.38	21.38	21.38										
3	16QAM	15	14	21.28	21.48	21.38										
3	16QAM	8	0	20.45	20.47	20.36	21.5	3								
3	16QAM	8	7	20.36	20.44	20.36										
3	16QAM	8	14	20.34	20.41	20.36										
3	16QAM	15	0	20.44	20.49	20.42	19.5	5								
3	16QAM	15	7	19.37	19.47	19.41										
3	16QAM	15	14	19.34	19.45	19.41										
3	256QAM	1	0	18.36	18.35	18.31	19.5	5								
3	256QAM	1	14	18.28	18.38	18.36										
3	256QAM	1	28	18.24	18.31	18.24										
3	256QAM	8	0	18.26	18.31	18.28	19.5	5								
3	256QAM	8	7	18.14	18.26	18.17										
3	256QAM	8	14	18.26	18.33	18.23										
Channel				19975 <th>20175</th> <th>20398</th> <th>Turn-up time (dB)</th> <th>MFR (dB)</th> <th colspan="4" rowspan="2"></th>	20175	20398	Turn-up time (dB)	MFR (dB)								
Frequency (MHz)				1710.7	1722.5	1734.3										
14	QPSK	1	0	23.56	23.65	23.54	24.5	0								
14	QPSK	1	5	23.60	23.62	23.58										
14	QPSK	1	10	23.59	23.68	23.58										
14	QPSK	3	0	22.59	22.68	22.58	23.5	1								
14	QPSK	3	3	22.67	22.70	22.64										
14	QPSK	3	6	22.67												

Band 4 Other PA Ant3																		
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dB)	MPR (dB)										
Channel																		
Frequency (MHz)																		
20	QPSK	1	0	23.98	24.17	23.88	25.5	0										
20	QPSK	1	49	23.78	23.86	23.78												
20	QPSK	1	99	23.76	23.97	23.75												
20	QPSK	50	0	22.87	23.12	22.86	24.5	1										
20	QPSK	50	24	22.86	23.00	22.74												
20	QPSK	50	50	22.66	23.02	22.69												
20	QPSK	100	0	22.58	22.61	22.60	24.5	1										
20	16QAM	1	0	22.87	22.87	22.85												
20	16QAM	1	49	22.58	22.81	22.56												
20	16QAM	1	99	22.58	22.77	22.59	23.5	2										
20	16QAM	50	0	21.54	21.62	21.58												
20	16QAM	50	24	21.59	21.88	21.52												
20	16QAM	100	0	21.53	21.78	21.56	23.5	2										
20	64QAM	1	0	21.54	21.80	21.56												
20	64QAM	1	99	21.53	21.65	21.52												
20	64QAM	50	0	20.54	20.75	20.52	22.5	3										
20	64QAM	50	24	20.58	20.62	20.52												
20	64QAM	50	50	20.56	20.68	20.53												
20	256QAM	1	0	18.52	18.68	18.56	20.5	5										
20	256QAM	1	49	18.56	18.59	18.57												
20	256QAM	1	99	18.51	18.55	18.52												
20	256QAM	50	0	18.58	18.61	18.53	20.5	5										
20	256QAM	50	24	18.53	18.55	18.51												
20	256QAM	50	50	18.59	18.58	18.53												
20	256QAM	100	0	18.52	18.58	18.50	20.000	20175	20355	Turn-up time (dB)	MPR (dB)							
Channel																		
Frequency (MHz)																		
15	QPSK	1	0	23.52	23.81	23.58	25.5	0										
15	QPSK	1	37	23.53	23.68	23.54												
15	QPSK	1	74	23.55	23.89	23.54												
15	QPSK	36	0	22.57	22.79	22.59	24.5	1										
15	QPSK	36	20	22.58	22.60	22.59												
15	QPSK	36	36	22.54	22.89	22.62												
15	16QAM	1	0	22.55	22.78	22.53	24.5	1										
15	16QAM	1	0	22.59	22.74	22.54												
15	16QAM	1	37	22.55	22.66	22.55												
15	16QAM	1	74	22.56	22.71	22.55	23.5	2										
15	16QAM	36	0	21.54	21.74	21.52												
15	16QAM	36	20	21.57	21.53	21.53												
15	16QAM	36	36	21.56	21.57	21.52	23.5	2										
15	16QAM	75	0	21.54	21.65	21.59												
15	64QAM	1	0	21.58	21.70	21.57												
15	64QAM	1	37	21.52	21.63	21.53	22.5	3										
15	64QAM	1	74	21.55	21.51	21.51												
15	64QAM	36	0	20.52	20.70	20.54												
15	64QAM	36	20	20.54	20.52	20.52	20.5	5										
15	64QAM	36	36	20.55	20.58	20.59												
15	64QAM	75	0	20.59	20.66	20.55												
15	256QAM	1	0	18.52	18.55	18.51	20.5	5										
15	256QAM	1	37	18.53	18.59	18.58												
15	256QAM	1	74	18.50	18.52	18.53												
15	256QAM	36	0	18.51	18.51	18.47	20.5	5										
15	256QAM	36	20	18.64	18.67	18.62												
15	256QAM	36	36	18.52	18.59	18.53												
15	256QAM	75	0	18.57	18.52	18.51	20.000	20175	20355	Turn-up time (dB)	MPR (dB)							
Channel																		
Frequency (MHz)																		
10	QPSK	1	0	23.75	23.88	23.84	25.5	0										
10	QPSK	1	25	23.53	23.62	23.64												
10	QPSK	1	49	23.76	23.83	23.67												
10	QPSK	36	0	22.67	22.82	22.74	24.5	1										
10	QPSK	36	12	22.80	22.91	22.68												
10	QPSK	36	25	22.81	22.89	22.59												
10	16QAM	1	0	22.72	22.77	22.51	24.5	1										
10	16QAM	1	0	22.63	22.79	22.75												
10	16QAM	1	25	22.61	22.73	22.67												
10	16QAM	1	49	22.67	22.70	22.68	23.5	2										
10	16QAM	25	0	21.60	21.74	21.65												
10	16QAM	25	12	21.58	21.66	21.60												
10	16QAM	25	12	21.51	21.53	21.58	23.5	2										
10	16QAM	50	0	21.51	21.70	21.70												
10	64QAM	1	0	21.60	21.68	21.63												
10	64QAM	1	25	21.54	21.60	21.60	22.5	3										
10	64QAM	25	0	20.62	20.65	20.58												
10	64QAM	25	12	20.54	20.55	20.51												
10	64QAM	25	25	20.53	20.58	20.66	20.5	5										
10	64QAM	50	0	20.52	20.61	20.53												
10	256QAM	1	0	18.55	18.60	18.59												
10	256QAM	1	25	18.53	18.59	18.59	20.5	5										
10	256QAM	1	49	18.53	18.54	18.51												
10	256QAM	25	0	18.53	18.55	18.57												
10	256QAM	25	12	18.56	18.53	18.58	20.5	5										
10	256QAM	25	25	18.58	18.58	18.52												
10	256QAM	50	0	18.52	18.52	18.53												
Channel																		
Frequency (MHz)																		
5	QPSK	1	0	23.81	23.88	23.85	25.5	0										
5	QPSK	1	12	23.56	23.69	23.60												
5	QPSK	1	24	23.75	23.69	23.69												
5	QPSK	12	0	22.69	22.74	22.71	24.5	1										
5	QPSK	12	7	22.76	22.86	22.85												
5	QPSK	12	13	22.85	22.86	22.85												
5	QPSK	25	0	22.65	22.77	22.83	24.5	1										
5	16QAM	1	0	22.69	22.80	22.71												
5	16QAM	1	12	22.59	22.75	22.68												
5	16QAM	1	24	22.60	22.63	22.64	23.5	2										
5	16QAM	12	0	21.90	22.03	22.00												
5	16QAM	12	7	21.77	21.85	21.86												
5	16QAM	12	13	21.65	21.78	21.88	23.5	2										
5	16QAM	25	0	21.87	21.98	21.95												
5	64QAM	1	0	21.97	22.05	21.97												
5	64QAM	1	12	21.80	21.82	21.95	22.5	3										
5	64QAM	1	24	21.77	21.86	21.84												
5	64QAM	12	0	21.70	21.82	21.80												
5	64QAM	12	7	21.74	21.80	21.80	22.5	3										
5	64QAM	12	13	21.77	21.83	21.77												
5	64QAM	25	0	20.77	20.96	20.82												
5	256QAM	1	0	18.80	18.85	18.84	20.5	5										
5	256QAM	1	12	18.79	18.79	18.78												
5	256QAM	1	24	18.80	18.75	18.78												
5	256QAM	12	0	18.67	18.83	18.86	20.5	5										
5	256QAM	12	7	18.70	18.78	18.80												
5	256QAM	12	13	18.61	18.85	18.82												
5	256QAM	25	0	18.73	18.75	18.77	20.5	5										
5	256QAM	25	7	18.74	18.77	18.77												
5	256QAM	25	13	18.75	18.74	18.74												
Channel																		
Frequency (MHz)																		
3	QPSK	1	0	24.08	24.16	24.10	25.5	0										
3	QPSK	1	8	23.95	24.07	24.05												
3	QPSK	1	16	24.04	24.12	24.10												
3	QPSK	8	0	23.00	23.10	23.07	24.5	1										
3	QPSK	8	8	23.05	23.17	23.15												
3	QPSK	8	16	23.14	23.21	23.15												
3	QPSK	16	0	22.89	23.07	23.06	24.5	1										
3	QPSK	16	8	22.92	23.03	23.03												
3	QPSK	16	16	22.98	23.03	23.00												
3	16QAM	1	0	22.88	22.97	23.04	23.5	2										
3	16QAM	1	8	22.94	23.03	23.03												
3	16QAM	1	16	22.93	23.02	23.02												
3	16QAM	8	0	21.76	21.98	21.82	22.5	3										
3	16QAM	8	8	21.78	21.87	21.87												
3	16QAM	8	16	21.83	21.88	21.88												
3	16QAM	16	0	20.80	20.92	20.80	20.5	5										
3	16QAM	16	8	20.83	20.92	20.92												
3	16QAM	16	16	20.80	20.92	20.80												
3	256QAM	1	0	18.83	18.88	18.88	20.5	5										
3	256QAM	1	8	18.84	18.84	18.84												
3	256QAM	1	16	18.84	18.77	18.78												
3	256QAM	8	0	18.70	18.84	18.84	20.5	5										
3	256QAM	8	8	18.73	18.79	18.87												
3	256QAM	8	16	18.56	18.87	18.85												
Channel																		
Frequency (MHz)																		
1.4	QPSK	1	0	23.74	23.91	23.83	25.5	0										
1.4	QPSK	1	8	23.95	23.82	23.82												
1.4	QPSK	1	16	24.06	24.12	24.10												
1.4	QPSK	8	0	23.03	23.89	23.89	24.5	1										
1.4	QPSK	8	8	23.06	23.88	23.89												
1.4	QPSK	8	16	23.12	23.92	23.84												
1.4	QPSK	16	0	22.84	22.76	22.77	24.5	1										
1.4	QPSK	16	8	22.90	22.96	22.97												
1.4	QPSK	16	16	22.71	22.86	22.82												
1.4	16QAM	1	0	22.77	22.76	22.75	23.5	2										
1.4	16QAM	1	8	22.76	22.76	22.72												
1.4	16QAM	1	16	22.61	22.68	22.62												
1.4	16QAM	8	0	21.69	21.67	21.71	23.5	2										
1.4	16QAM	8	8	21.76	21.85	21.74												
1.4	16QAM	8	16	21.78	21.81	21.97												
1.4	16QAM	16	0	21.73	21.80	21.82	22.5	3										
1.4	16QAM	16	8	21.89	21.83	21.87												
1.4	16QAM	16	16	21.87	21.86	21.82												
1.4	256QAM	1	0	18.61	18.76	18.78	20.5	5										
1.4	256QAM	1	8	18.64	18.74	18.82												
1.4	256QAM	1	16	18.59	18.75	18.74												
1.4	256QAM	8	0	18.56	18.77	18.87	20.5	5										

Band 4 Other PA Ant4										
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dB)	Margin (dB)		
Channel				2000	20175	20358	Turn-up time (dB)	Margin (dB)		
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	23.07	23.27	23.21	24.5	0		
20	QPSK	1	49	22.91	23.15	23.12				
20	QPSK	1	99	23.03	23.22	23.20				
20	QPSK	50	0	21.98	22.27	22.14	23.5	1		
20	QPSK	50	24	22.00	22.18	22.14				
20	QPSK	50	50	22.05	22.23	22.24				
20	QPSK	100	0	22.00	22.19	22.10	23.5	1		
20	16QAM	1	0	22.03	22.21	22.11				
20	16QAM	1	99	22.09	22.27	22.25				
20	16QAM	50	0	21.05	21.25	21.22	22.5	2		
20	16QAM	50	24	21.08	21.26	21.20				
20	16QAM	50	50	21.04	21.21	21.14				
20	16QAM	100	0	20.99	21.23	21.15	22.5	2		
20	64QAM	1	0	20.93	21.13	21.11				
20	64QAM	1	49	21.00	21.24	21.14				
20	64QAM	1	99	21.00	21.23	21.17	21.5	3		
20	64QAM	50	0	20.93	20.22	20.17				
20	64QAM	50	24	20.98	20.25	20.20				
20	64QAM	50	50	20.95	20.23	20.18	19.5	5		
20	64QAM	100	0	20.91	20.20	20.16				
20	256QAM	1	0	17.81	18.02	17.90				
20	256QAM	1	49	17.87	18.11	18.07	19.5	5		
20	256QAM	1	99	17.83	18.04	17.97				
20	256QAM	50	0	18.06	18.26	18.18				
20	256QAM	50	24	17.93	18.16	18.15	19.5	5		
20	256QAM	50	50	17.94	18.17	18.14				
20	256QAM	100	0	18.00	18.19	18.13				
Channel				20005	20175	20358	Turn-up time (dB)		Margin (dB)	
Frequency (MHz)				1717.5	1732.5	1747.5				
15	QPSK	1	0	22.83	23.12	23.10	24.5	0		
15	QPSK	1	37	22.80	23.03	23.04				
15	QPSK	1	74	22.90	23.11	23.12				
15	QPSK	36	0	21.80	22.14	22.04	23.5	1		
15	QPSK	36	20	21.89	22.12	22.05				
15	QPSK	36	39	22.00	22.16	22.10				
15	QPSK	75	0	21.88	22.14	22.09	23.5	1		
15	16QAM	1	0	21.97	22.15	22.01				
15	16QAM	1	37	22.02	22.17	22.14				
15	16QAM	1	74	21.94	22.17	22.20	22.5	2		
15	16QAM	36	0	20.97	21.14	21.11				
15	16QAM	36	20	21.01	21.12	21.08				
15	16QAM	36	39	20.90	21.08	21.02	22.5	2		
15	16QAM	75	0	20.92	21.17	21.02				
15	64QAM	1	0	20.82	21.02	21.05				
15	64QAM	1	37	20.89	21.15	21.09	21.5	3		
15	64QAM	1	74	20.90	21.16	21.11				
15	64QAM	36	0	19.94	20.09	20.09				
15	64QAM	36	20	19.97	20.16	20.05	19.5	5		
15	64QAM	36	39	19.98	20.08	20.03				
15	64QAM	75	0	19.92	20.07	20.06				
15	256QAM	1	0	17.65	17.90	17.83	19.5	5		
15	256QAM	1	37	17.74	18.04	17.97				
15	256QAM	1	74	17.76	17.92	17.90				
15	256QAM	36	0	17.97	18.11	18.02	19.5	5		
15	256QAM	36	20	17.82	18.03	18.01				
15	256QAM	36	39	17.89	18.11	18.02				
15	256QAM	75	0	17.90	18.08	18.05				
Channel				20000	20175	20358	Turn-up time (dB)	Margin (dB)		
Frequency (MHz)				1715	1732.5	1750				
10	QPSK	1	0	23.02	23.15	23.11	24.5	0		
10	QPSK	1	25	22.78	23.03	23.01				
10	QPSK	1	49	22.88	23.08	23.12				
10	QPSK	25	0	21.84	22.06	22.05	23.5	1		
10	QPSK	25	12	21.94	22.06	22.05				
10	QPSK	25	25	21.98	22.20	22.12				
10	QPSK	50	0	21.85	22.04	21.98	23.5	1		
10	16QAM	1	0	21.98	22.08	22.02				
10	16QAM	1	25	22.00	22.20	22.13				
10	16QAM	1	49	22.04	22.21	22.16	22.5	2		
10	16QAM	25	0	20.95	21.19	21.19				
10	16QAM	25	12	20.99	21.21	21.07				
10	16QAM	25	25	20.97	21.11	21.01	21.5	3		
10	16QAM	50	0	20.91	21.15	21.08				
10	64QAM	1	0	20.83	21.08	21.01				
10	64QAM	1	25	20.91	21.18	21.04	22.5	2		
10	64QAM	1	49	20.94	21.16	21.10				
10	64QAM	25	0	19.90	20.07	20.10				
10	64QAM	25	12	19.94	20.15	20.07	21.5	3		
10	64QAM	25	25	19.92	20.15	20.07				
10	64QAM	50	0	19.95	20.13	20.02				
10	256QAM	1	0	17.67	17.92	17.88	19.5	5		
10	256QAM	1	25	17.73	18.03	17.96				
10	256QAM	1	49	17.72	17.90	17.85				
10	256QAM	25	0	17.91	18.14	18.02	19.5	5		
10	256QAM	25	12	17.88	18.08	18.00				
10	256QAM	25	25	17.81	18.10	18.06				
10	256QAM	50	0	17.91	18.09	18.05				
Channel				19975	20175	20375	Turn-up time (dB)	Margin (dB)		
Frequency (MHz)				1712.5	1732.5	1752.5				
5	QPSK	1	0	22.98	23.14	23.11	24.5	0		
5	QPSK	1	12	22.83	23.06	23.03				
5	QPSK	1	24	22.96	23.16	23.09				
5	QPSK	12	0	21.83	22.17	22.05	23.5	1		
5	QPSK	12	7	21.91	22.12	22.05				
5	QPSK	12	13	21.98	22.15	22.12				
5	QPSK	25	0	21.85	22.08	21.98	23.5	1		
5	16QAM	1	0	21.93	22.07	21.97				
5	16QAM	1	12	22.03	22.18	22.14				
5	16QAM	1	24	21.99	22.15	22.11	22.5	2		
5	16QAM	12	0	20.96	21.17	21.13				
5	16QAM	12	7	20.96	21.16	21.09				
5	16QAM	12	13	20.96	21.10	21.08	21.5	3		
5	16QAM	25	0	20.90	21.13	21.07				
5	64QAM	1	0	20.86	21.05	21.02				
5	64QAM	1	12	20.88	21.09	21.07	22.5	2		
5	64QAM	1	24	20.86	21.12	21.10				
5	64QAM	12	0	19.95	20.14	20.03				
5	64QAM	12	7	19.98	20.11	20.06	21.5	3		
5	64QAM	12	13	19.92	20.15	20.07				
5	256QAM	1	0	17.72	17.94	17.83				
5	256QAM	1	12	17.80	18.02	17.94	19.5	5		
5	256QAM	1	24	17.79	17.91	17.88				
5	256QAM	12	0	17.99	18.14	18.01				
5	256QAM	12	7	17.96	18.06	18.04	19.5	5		
5	256QAM	12	13	17.90	18.07	18.05				
5	256QAM	25	0	17.85	18.07	18.03				
Channel				19975	20175	20375	Turn-up time (dB)		Margin (dB)	
Frequency (MHz)				1711.5	1732.5	1753.5				
3	QPSK	1	0	23.01	23.15	23.19	24.5	0		
3	QPSK	1	4	22.93	23.13	23.13				
3	QPSK	1	14	22.90	23.10	23.07				
3	QPSK	8	0	21.93	22.14	22.02	23.5	1		
3	QPSK	8	4	21.92	22.12	22.02				
3	QPSK	8	14	21.92	22.11	22.02				
3	QPSK	15	0	21.92	22.09	22.03	23.5	1		
3	16QAM	1	0	22.08	22.20	22.08				
3	16QAM	1	4	22.06	22.23	22.13				
3	16QAM	1	14	21.99	22.13	22.10	22.5	2		
3	16QAM	8	0	20.98	21.16	21.08				
3	16QAM	8	4	20.98	21.17	21.07				
3	16QAM	8	14	20.99	21.14	21.06	21.5	3		
3	16QAM	15	0	20.82	21.01	20.96				
3	64QAM	1	0	20.90	21.18	21.08				
3	64QAM	1	4	20.93	21.19	21.09	22.5	2		
3	64QAM	1	14	20.93	21.18	21.09				
3	64QAM	8	0	19.84	20.09	20.04				
3	64QAM	8	4	20.00	20.15	20.12	21.5	3		
3	64QAM	8	14	19.93	20.08	20.08				
3	64QAM	15	0	19.87	20.11	20.10				
3	256QAM	1	0	17.75	17.98	17.78	19.5	5		
3	256QAM	1	4	17.78	17.97	17.80				
3	256QAM	1	14	17.74	17.95	17.87				
3	256QAM	8	0	17.93	18.14	18.01	19.5	5		
3	256QAM	8	4	17.92	18.08	18.04				
3	256QAM	8	14	17.91	18.07	18.03				
3	256QAM	8	7	17.88	18.05	18.03				
3	256QAM	15	0	17.87	18.01	18.00	19.5	5		
3	256QAM	15	4	17.86	18.00	17.98				
3	256QAM	15	14	17.85	18.00	17.98				
Channel				19975	20175	20375	Turn-up time (dB)		Margin (dB)	
Frequency (MHz)				1710.7	1732.5	1754.3				
1.4	QPSK	1	0	23.01	23.12	23.13	24.5	0		
1.4	QPSK	1	4	22.92	23.03	23.03				
1.4	QPSK	1	5	22.93	23.16	23.14				
1.4	QPSK	3	0	22.86	23.17	23.03	23.5	1		
1.4	QPSK	3	4	22.85	23.05	23.05				
1.4	QPSK	3	5	22.90	23.17	23.14				
1.4	QPSK	3	8	22.90	23.17	23.14	23.5	1		
1.4	QPSK	3	11	22.90	23.17	23.14				
1.4	QPSK	3	14	22.90	23.17	23.14				
1.4	QPSK	6	0	21.9						

Band 12 Other PA Ant0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mask Ch./Freq.	Power High Ch./Freq.	Time-up Int. (dB)	Margin (dB)			
Channel				23005	23095	23138					
Frequency (MHz)				704	707.5	711					
10	QPSK	1	0	24.00	24.00	24.44	25.5	0			
10	QPSK	1	25	24.37	24.44	24.40					
10	QPSK	1	49	24.40	24.50	24.45					
10	QPSK	25	0	23.70	23.74	23.63	24.5	1			
10	QPSK	25	12	23.03	23.07	23.61					
10	QPSK	25	25	23.49	23.84	23.58					
10	HQAM	1	0	23.05	23.09	23.55	24.5	1			
10	HQAM	1	25	23.47	23.62	23.56					
10	HQAM	1	49	23.54	23.57	23.48					
10	HQAM	25	0	22.55	22.65	22.62	23.5	2			
10	HQAM	25	12	22.61	22.85	22.52					
10	HQAM	25	25	22.44	22.51	22.44					
10	64QAM	1	0	22.84	22.91	22.86	23.5	2			
10	64QAM	1	25	22.54	22.66	22.54					
10	64QAM	1	49	22.70	22.76	22.61					
10	64QAM	25	0	21.48	21.59	21.50	22.5	3			
10	64QAM	25	12	21.81	21.96	21.84					
10	64QAM	25	25	21.60	21.75	21.66					
10	256QAM	1	0	20.00	20.04	20.00	20.5	5			
10	256QAM	1	25	19.61	19.92	19.88					
10	256QAM	1	49	20.05	20.17	20.05					
10	256QAM	25	0	19.47	19.55	19.52	20.5	5			
10	256QAM	25	12	19.80	19.84	19.70					
10	256QAM	25	25	19.60	19.72	19.67					
10	256QAM	50	0	19.35	19.59	19.53					
Channel				23085	23095	23168	Time-up Int. (dB)	Margin (dB)			
Frequency (MHz)				701.5	707.5	713.0					
5	QPSK	1	0	24.42	24.43	24.35	25.5	0			
5	QPSK	1	12	24.34	24.34	24.33					
5	QPSK	1	24	24.27	24.38	24.37					
5	QPSK	12	0	23.57	23.63	23.53	24.5	1			
5	QPSK	12	7	23.01	23.43	23.54					
5	QPSK	12	13	23.39	23.55	23.50					
5	QPSK	25	0	23.44	23.56	23.49	24.5	1			
5	HQAM	1	0	23.38	23.53	23.48					
5	HQAM	1	12	23.47	23.61	23.58					
5	HQAM	1	24	23.39	23.51	23.36	23.5	2			
5	HQAM	12	0	22.48	22.54	22.55					
5	HQAM	12	7	22.49	22.51	22.46					
5	HQAM	12	13	22.31	22.48	22.41	22.5	3			
5	HQAM	25	0	22.74	22.85	22.73					
5	64QAM	1	0	22.45	22.62	22.41					
5	64QAM	1	12	22.60	22.65	22.46	20.5	5			
5	64QAM	1	24	22.00	22.03	22.24					
5	64QAM	12	0	21.42	21.55	21.41					
5	64QAM	12	7	21.71	21.80	21.70	22.5	3			
5	64QAM	12	13	21.53	21.68	21.51					
5	64QAM	25	0	21.85	21.97	21.77					
5	256QAM	1	0	19.85	19.90	19.80	20.5	5			
5	256QAM	1	12	19.78	19.81	19.75					
5	256QAM	1	24	19.97	20.14	19.91					
5	256QAM	12	0	19.41	19.42	19.36	20.5	5			
5	256QAM	12	7	19.68	19.74	19.57					
5	256QAM	12	13	19.45	19.59	19.61					
5	256QAM	25	0	19.71	19.85	19.78					
Channel				23085	23095	23178	Time-up Int. (dB)	Margin (dB)			
Frequency (MHz)				700.5	707.5	714.5					
3	QPSK	1	0	24.40	24.52	24.41	25.5	0			
3	QPSK	1	8	24.34	24.34	24.34					
3	QPSK	1	14	24.36	24.40	24.36					
3	QPSK	8	0	23.46	23.66	23.49	24.5	1			
3	QPSK	8	4	23.05	23.09	23.58					
3	QPSK	8	7	23.39	23.52	23.53					
3	QPSK	8	0	23.50	23.62	23.48	24.5	1			
3	HQAM	1	0	23.38	23.49	23.40					
3	HQAM	1	8	23.47	23.53	23.55					
3	HQAM	1	14	23.45	23.43	23.35	23.5	2			
3	HQAM	8	0	22.45	22.58	22.50					
3	HQAM	8	4	22.47	22.59	22.48					
3	HQAM	8	7	22.35	22.40	22.40	22.5	3			
3	HQAM	16	0	22.77	22.77	22.70					
3	64QAM	1	0	22.44	22.67	22.41					
3	64QAM	1	8	22.05	22.08	22.30	20.5	5			
3	64QAM	1	14	22.09	22.73	22.52					
3	64QAM	8	0	21.44	21.55	21.43					
3	64QAM	8	4	21.77	21.83	21.78	20.5	5			
3	64QAM	8	7	21.49	21.61	21.62					
3	64QAM	16	0	21.70	22.00	21.83					
3	256QAM	1	0	19.85	20.01	19.80	20.5	5			
3	256QAM	1	8	19.67	19.80	19.77					
3	256QAM	1	14	19.96	20.04	19.92					
3	256QAM	8	0	19.43	19.50	19.42	20.5	5			
3	256QAM	8	4	19.72	19.70	19.59					
3	256QAM	8	7	19.48	19.59	19.52					
3	256QAM	16	0	19.81	19.81	19.81					
Channel				23017	23095	23178	Time-up Int. (dB)	Margin (dB)			
Frequency (MHz)				699.7	707.5	715.3					
1.4	QPSK	1	0	24.41	24.43	24.33	25.5	0			
1.4	QPSK	1	3	24.34	24.38	24.25					
1.4	QPSK	1	5	24.35	24.41	24.38					
1.4	QPSK	3	0	24.40	24.44	24.36	24.5	1			
1.4	QPSK	3	1	24.25	24.35	24.30					
1.4	QPSK	3	3	24.30	24.41	24.32					
1.4	QPSK	8	0	23.08	23.09	23.54	24.5	1			
1.4	HQAM	1	0	23.51	23.54	23.53					
1.4	HQAM	1	3	23.39	23.52	23.52					
1.4	HQAM	1	5	23.45	23.59	23.47	23.5	2			
1.4	HQAM	3	0	23.42	23.48	23.47					
1.4	HQAM	3	1	23.00	23.59	23.56					
1.4	HQAM	3	3	23.44	23.48	23.35	20.5	5			
1.4	HQAM	6	0	22.61	22.81	22.47					
1.4	HQAM	1	0	22.40	22.54	22.44					
1.4	HQAM	1	3	22.40	22.43	22.35	23.5	2			
1.4	64QAM	1	5	22.45	22.50	22.42					
1.4	64QAM	3	0	22.47	22.59	22.47					
1.4	64QAM	3	1	22.50	22.60	22.47	22.5	3			
1.4	64QAM	3	3	22.59	22.82	22.55					
1.4	HQAM	6	0	21.56	21.62	21.59					
1.4	256QAM	1	0	19.89	19.98	19.84	20.5	5			
1.4	256QAM	1	3	19.69	19.89	19.75					
1.4	256QAM	1	5	19.91	20.03	19.93	20.5	5			
1.4	256QAM	1	7	19.46	19.66	19.60					
1.4	256QAM	3	0	19.70	19.73	19.57	20.5	5			
1.4	256QAM	3	1	19.56	19.68	19.58					
1.4	256QAM	3	3	19.78	19.78	19.72	20.5	5			
1.4	256QAM	3	5	19.60	19.68	19.60					



Band 17 Other PA Ant0											
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Total-up limit (dBm)	MPE (dB)			
Channel				23.90	23.90	23.90					
Frequency [MHz]				709	710	711					
10	QPSK	1	0	24.43	24.51	24.46	25.5	0			
10	QPSK	1	25	24.31	24.40	24.36					
10	QPSK	1	49	24.38	24.47	24.33					
10	QPSK	25	0	23.64	23.68	23.67	24.5	1			
10	QPSK	25	12	23.45	23.59	23.48					
10	QPSK	25	25	23.34	23.46	23.34					
10	QPSK	50	0	23.48	23.59	23.49	24.5	1			
10	16QAM	1	0	23.46	23.59	23.42					
10	16QAM	1	25	23.29	23.42	23.32					
10	16QAM	1	49	23.21	23.34	23.26	23.5	2			
10	16QAM	25	0	22.58	22.73	22.62					
10	16QAM	25	12	22.89	22.72	22.59					
10	16QAM	25	25	22.85	22.73	22.62	22.5	3			
10	16QAM	50	0	22.87	22.79	22.73					
10	16QAM	1	0	22.43	22.59	22.41					
10	16QAM	1	25	22.50	22.54	22.46	20.5	5			
10	16QAM	1	49	22.26	22.32	22.21					
10	16QAM	25	0	21.59	21.66	21.59					
10	16QAM	25	12	21.68	21.77	21.66	20.5	5			
10	16QAM	25	25	21.50	21.58	21.49					
10	16QAM	50	0	21.59	21.66	21.62					
10	256QAM	1	0	19.82	19.82	19.81	20.5	5			
10	256QAM	1	25	19.83	19.88	19.78					
10	256QAM	1	49	19.59	19.70	19.68					
10	256QAM	25	0	19.47	19.58	19.48	20.5	5			
10	256QAM	25	12	19.52	19.60	19.58					
10	256QAM	25	25	19.50	19.54	19.43					
10	256QAM	50	0	19.50	19.67	19.52					
Channel				23.95	23.95	23.95	Total-up limit (dBm)	MPE (dB)			
Frequency [MHz]				708.5	710	713.5					
5	QPSK	1	0	24.39	24.46	24.43	25.5	0			
5	QPSK	1	12	24.24	24.36	24.26					
5	QPSK	1	24	24.35	24.36	24.22					
5	QPSK	12	0	23.59	23.61	23.49	24.5	1			
5	QPSK	12	7	23.40	23.47	23.39					
5	QPSK	12	13	23.28	23.42	23.20					
5	QPSK	25	0	23.44	23.56	23.39	24.5	1			
5	16QAM	1	0	23.32	23.48	23.31					
5	16QAM	1	12	23.20	23.32	23.28					
5	16QAM	1	24	23.07	23.29	23.22	23.5	2			
5	16QAM	12	0	22.54	22.61	22.51					
5	16QAM	12	7	22.68	22.59	22.54					
5	16QAM	12	13	22.58	22.59	22.51	23.5	2			
5	16QAM	25	0	22.57	22.67	22.63					
5	16QAM	1	0	22.38	22.37	22.37					
5	16QAM	1	12	22.41	22.46	22.37	22.5	3			
5	16QAM	1	24	22.22	22.27	22.16					
5	16QAM	12	0	21.44	21.58	21.53					
5	16QAM	12	7	21.60	21.70	21.64	22.5	3			
5	16QAM	12	13	21.37	21.51	21.38					
5	16QAM	25	0	21.44	21.57	21.49					
5	256QAM	1	0	19.76	19.79	19.68	20.5	5			
5	256QAM	1	12	19.72	19.75	19.66					
5	256QAM	1	24	19.48	19.59	19.53					
5	256QAM	12	0	19.37	19.48	19.35	20.5	5			
5	256QAM	12	7	19.39	19.47	19.43					
5	256QAM	12	13	19.44	19.48	19.33					
5	256QAM	25	0	19.56	19.63	19.52					

Band 12 Other PA Ant1													
RF (MHz)	Modulation	RE Size	RE Offset	Power Low Mode Ch. / Freq.	Power Mode Ch. / Freq.	Power High Mode Ch. / Freq.	Turn-up limit (dBm)						
Channel				2360.0	2369.5	2317.5							
Frequency (MHz)				704	707.5	711							
10	QPSK	1	0	23.69	23.74	23.67	25.5	0	24.5	1			
10	QPSK	1	25	23.59	23.66	23.61							
10	QPSK	1	49	23.67	23.61	23.62							
10	QPSK	25	0	22.66	22.76	22.67	24.5	1	24.5	1			
10	QPSK	25	12	22.56	22.70	22.59							
10	QPSK	25	25	22.55	22.65	22.58							
10	QPSK	50	0	22.59	22.72	22.67	24.5	1	24.5	1			
10	16QAM	1	0	22.58	22.67	22.55							
10	16QAM	1	25	22.53	22.61	22.59							
10	16QAM	1	49	22.54	22.57	22.53	23.5	2	23.5	2			
10	16QAM	25	0	21.73	21.81	21.71							
10	16QAM	25	12	21.70	21.73	21.65							
10	16QAM	25	25	21.63	21.77	21.65	23.5	2	23.5	2			
10	16QAM	50	0	21.58	21.71	21.57							
10	16QAM	1	0	21.65	21.79	21.67							
10	16QAM	1	25	21.59	21.72	21.66	22.5	3	22.5	3			
10	16QAM	1	49	21.65	21.69	21.64							
10	16QAM	25	0	20.90	20.91	20.84							
10	16QAM	25	12	20.82	20.83	20.72	20.5	5	20.5	5			
10	16QAM	25	25	20.81	20.81	20.82							
10	256QAM	1	0	18.85	18.96	18.92							
10	256QAM	1	25	18.83	18.93	18.89	20.5	5	20.5	5			
10	256QAM	1	49	18.85	18.88	18.74							
10	256QAM	25	0	18.78	18.67	18.84							
10	256QAM	25	12	18.68	18.77	18.72	20.5	5	20.5	5			
10	256QAM	25	25	18.74	18.83	18.69							
10	256QAM	50	0	18.65	18.91	18.82							
Channel				2363.5	2369.5	2318.5							
Frequency (MHz)				701.5	707.5	713.5							
5	QPSK	1	0	23.62	23.67	23.58	25.5				0	24.5	1
5	QPSK	1	12	23.67	23.58	23.58							
5	QPSK	1	24	23.67	23.55	23.62							
5	QPSK	12	0	22.55	22.67	22.54	24.5	1	24.5	1			
5	QPSK	12	7	22.51	22.84	22.69							
5	QPSK	12	13	22.51	22.62	22.62							
5	QPSK	25	0	22.55	22.67	22.55	24.5	1	24.5	1			
5	16QAM	1	0	22.57	22.55	22.58							
5	16QAM	1	12	22.51	22.55	22.59							
5	16QAM	1	24	22.59	22.54	22.59	23.5	2	23.5	2			
5	16QAM	12	0	21.65	21.74	21.63							
5	16QAM	12	7	21.61	21.63	21.59							
5	16QAM	12	13	21.63	21.66	21.58	23.5	2	23.5	2			
5	16QAM	25	0	21.53	21.58	21.51							
5	16QAM	1	0	21.54	21.71	21.58							
5	16QAM	1	12	21.55	21.54	21.64	22.5	3	22.5	3			
5	16QAM	1	24	21.51	21.61	21.55							
5	16QAM	12	0	20.77	20.90	20.83							
5	16QAM	12	7	20.69	20.79	20.65	20.5	5	20.5	5			
5	16QAM	12	13	20.67	20.85	20.72							
5	16QAM	25	0	20.56	20.80	20.60							
5	256QAM	1	0	18.71	18.90	18.73	20.5	5	20.5	5			
5	256QAM	1	12	18.74	18.82	18.81							
5	256QAM	1	24	18.73	18.77	18.65							
5	256QAM	12	0	18.64	18.70	18.77	20.5	5	20.5	5			
5	256QAM	12	7	18.59	18.67	18.63							
5	256QAM	12	13	18.62	18.74	18.55							
5	256QAM	25	0	18.79	18.80	18.74							
Channel				2366.5	2369.5	2318.5							
Frequency (MHz)				700.5	707.5	714.5							
3	QPSK	1	0	23.64	23.63	23.60	25.5	0	24.5	1			
3	QPSK	1	8	23.57	23.56	23.58							
3	QPSK	1	14	23.53	23.57	23.59							
3	QPSK	8	0	22.52	22.66	22.52	24.5	1	24.5	1			
3	QPSK	8	4	22.58	22.57	22.51							
3	QPSK	8	7	22.56	22.54	22.55							
3	QPSK	16	0	22.50	22.58	22.57	24.5	1	24.5	1			
3	16QAM	1	0	22.59	22.54	22.59							
3	16QAM	1	8	22.58	22.51	22.60							
3	16QAM	1	14	22.53	22.59	22.61	23.5	2	23.5	2			
3	16QAM	8	0	21.59	21.75	21.65							
3	16QAM	8	4	21.58	21.67	21.61							
3	16QAM	8	7	21.56	21.72	21.65	23.5	2	23.5	2			
3	16QAM	16	0	21.55	21.63	21.54							
3	16QAM	1	0	21.60	21.72	21.63							
3	16QAM	1	8	21.56	21.64	21.60	22.5	3	22.5	3			
3	16QAM	1	14	21.59	21.64	21.57							
3	16QAM	8	0	20.79	20.89	20.79							
3	16QAM	8	4	20.77	20.71	20.72	20.5	5	20.5	5			
3	16QAM	8	7	20.74	20.79	20.73							
3	16QAM	16	0	20.63	20.75	20.61							
3	256QAM	1	0	18.72	18.80	18.79	20.5	5	20.5	5			
3	256QAM	1	8	18.76	18.78	18.79							
3	256QAM	1	14	18.79	18.84	18.61							
3	256QAM	8	0	18.70	18.62	18.72	20.5	5	20.5	5			
3	256QAM	8	4	18.68	18.71	18.61							
3	256QAM	8	7	18.62	18.79	18.63							
Channel				2367.7	2369.5	2317.3							
Frequency (MHz)				699.7	707.5	716.3							
1.4	QPSK	1	0	23.64	23.55	23.58	25.5				0	24.5	1
1.4	QPSK	1	3	23.52	23.49	23.53							
1.4	QPSK	1	5	23.58	23.70	23.65							
1.4	QPSK	3	0	23.55	23.63	23.59	24.5	1	24.5	1			
1.4	QPSK	3	1	23.59	23.58	23.59							
1.4	QPSK	3	3	23.52	23.52	23.54							
1.4	QPSK	8	0	22.58	22.72	22.61	24.5	1	24.5	1			
1.4	16QAM	1	0	22.52	22.58	22.59							
1.4	16QAM	1	3	22.64	22.51	22.67							
1.4	16QAM	1	5	22.54	22.60	22.53	23.5	2	23.5	2			
1.4	16QAM	3	0	22.84	22.57	22.61							
1.4	16QAM	3	1	22.51	22.57	22.60							
1.4	16QAM	3	3	22.56	22.52	22.59	23.5	2	23.5	2			
1.4	16QAM	8	0	21.66	21.75	21.68							
1.4	16QAM	1	0	21.59	21.59	21.62							
1.4	16QAM	1	3	21.59	21.67	21.52	22.5	3	22.5	3			
1.4	16QAM	1	5	21.84	21.58	21.62							
1.4	16QAM	3	0	21.55	21.71	21.60							
1.4	16QAM	3	1	21.50	21.68	21.63	20.5	5	20.5	5			
1.4	16QAM	3	3	21.53	21.58	21.53							
1.4	16QAM	8	0	20.74	20.82	20.66	20.5	5	20.5	5			
1.4	16QAM	1	0	20.77	20.87	20.87							
1.4	16QAM	1	3	18.77	18.77	18.77							
1.4	16QAM	1	5	18.79	18.74	18.81	20.5	5	20.5	5			
1.4	16QAM	1	7	18.73	18.74	18.67							
1.4	16QAM	3	0	18.55	18.67	18.67							
1.4	256QAM	1	0	18.66	18.78	18.69	20.5	5	20.5	5			
1.4	256QAM	1	3	18.78	18.78	18.78							
1.4	256QAM	1	5	18.77	18.77	18.77							

Band 17 Other PA Ant1										
SW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	APR3 (dB)		
Channel				-23.90	-23.90	-23.90				
Frequency (MHz)				709	710	711				
15	QPSK	1	0	23.57	23.70	23.59		25.5	0	
15	QPSK	1	25	23.54	23.59	23.51				
10	QPSK	1	49	23.55	23.59	23.51				
10	QPSK	25	0	22.60	22.66	22.58		24.5	1	
15	QPSK	25	14	22.53	22.59	22.55				
10	QPSK	25	25	22.53	22.58	22.56				
10	QPSK	50	0	22.57	22.61	22.54		24.5	1	
10	16QAM	1	0	22.50	22.56	22.59				
10	16QAM	1	25	22.57	22.53	22.51				
10	16QAM	1	49	22.53	22.59	22.52		23.5	2	
10	16QAM	25	0	21.81	21.71	21.60				
10	16QAM	25	12	21.81	21.58	21.56				
10	16QAM	25	25	21.81	21.72	21.52		22.5	3	
10	16QAM	50	0	21.57	21.62	21.58				
10	64QAM	1	0	21.50	21.74	21.63				
10	64QAM	1	25	21.58	21.59	21.63		20.5	5	
10	64QAM	1	49	21.54	21.66	21.60				
10	64QAM	25	0	20.86	20.87	20.85				
10	64QAM	25	12	20.77	20.81	20.89		20.5	5	
10	64QAM	25	25	20.71	20.78	20.76				
10	64QAM	50	0	20.53	20.73	20.63				
10	256QAM	1	0	18.72	18.92	18.81		20.5	5	
10	256QAM	1	25	18.73	18.78	18.74				
10	256QAM	1	49	18.78	18.84	18.83				
10	256QAM	25	0	18.69	18.76	18.73		20.5	5	
10	256QAM	25	12	18.57	18.67	18.63				
10	256QAM	25	25	18.65	18.72	18.55				
10	256QAM	50	0	18.72	18.87	18.71				
Channel				2376.5	2376.9	2380.5	Turn-up limit (dB)	APR3 (dB)		
Frequency (MHz)				706.5	710	713.5				
5	QPSK	1	0	23.51	23.65	23.54		25.5	0	
5	QPSK	1	12	23.53	23.55	23.57				
5	QPSK	1	24	23.54	23.64	23.58				
5	QPSK	12	0	22.72	22.83	22.67		24.5	1	
5	QPSK	12	7	22.52	22.74	22.69				
5	QPSK	12	13	22.58	22.72	22.59				
5	QPSK	25	0	22.63	22.72	22.54		24.5	1	
5	16QAM	1	0	22.67	22.62	22.56				
5	16QAM	1	12	22.55	22.66	22.57				
5	16QAM	1	24	22.51	22.59	22.58		23.5	2	
5	16QAM	12	0	21.75	21.84	21.73				
5	16QAM	12	7	21.72	21.67	21.61				
5	16QAM	12	13	21.61	21.65	21.58		23.5	2	
5	16QAM	25	0	21.58	21.69	21.56				
5	64QAM	1	0	21.59	21.72	21.67		22.5	3	
5	64QAM	1	12	21.54	21.60	21.50				
5	64QAM	1	24	21.51	21.61	21.52				
5	64QAM	12	0	20.92	20.90	20.85		22.5	3	
5	64QAM	12	7	20.83	20.76	20.65				
5	64QAM	12	13	20.73	20.76	20.74				
5	64QAM	25	0	20.65	20.69	20.59		20.5	5	
5	256QAM	1	0	18.72	18.90	18.81				
5	256QAM	1	12	18.72	18.85	18.77				
5	256QAM	1	24	18.79	18.81	18.69		20.5	5	
5	256QAM	12	0	18.75	18.72	18.69				
5	256QAM	12	7	18.60	18.70	18.61				
5	256QAM	12	13	18.66	18.73	18.57		20.5	5	
5	256QAM	25	0	18.68	18.93	18.69				

DSI 4 Power for WWAN for Other PA

Band 5 Ant0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 20450	Power Middle Ch. / Freq. 20525	Power High Ch. / Freq. 20600	Tune-up limit (dBm)	MPR (dB)		
Channel				829	838.5	844				
Frequency (MHz)				829	838.5	844				
10	QPSK	1	0	24.82	24.85	24.77	25.5	0		
10	QPSK	1	25	24.74	24.73	24.69				
10	QPSK	1	49	24.68	24.68	24.61				
10	QPSK	25	0	23.64	23.75	23.66	24.5	1		
10	QPSK	25	12	23.64	23.65	23.64				
10	QPSK	25	25	23.67	23.58	23.65				
10	QPSK	50	0	23.59	23.72	23.62	24.5	1		
10	16QAM	1	0	23.73	23.86	23.73				
10	16QAM	1	25	23.74	23.80	23.71				
10	16QAM	1	49	23.70	23.76	23.67	23.5	2		
10	16QAM	25	0	22.79	22.91	22.78				
10	16QAM	25	12	22.70	22.77	22.71				
10	16QAM	25	25	22.66	22.71	22.66	23.5	2		
10	16QAM	50	0	22.69	22.80	22.70				
10	64QAM	1	0	22.74	22.84	22.71				
10	64QAM	1	25	22.61	22.76	22.70	23.5	2		
10	64QAM	1	49	22.59	22.69	22.62				
10	64QAM	25	0	21.79	21.89	21.79				
10	64QAM	25	12	21.65	21.76	21.69	22.5	3		
10	64QAM	25	25	21.71	21.82	21.72				
10	64QAM	50	0	21.68	21.81	21.73				
10	256QAM	1	0	19.52	19.65	19.58	20.5	5		
10	256QAM	1	25	19.42	19.56	19.47				
10	256QAM	1	49	19.42	19.52	19.41				
10	256QAM	25	0	19.54	19.60	19.52	20.5	5		
10	256QAM	25	12	19.44	19.54	19.39				
10	256QAM	25	25	19.36	19.47	19.33				
10	256QAM	50	0	19.45	19.52	19.37				
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	0	24.73	24.77	24.64	25.5	0		
5	QPSK	1	12	24.61	24.66	24.57				
5	QPSK	1	24	24.61	24.54	24.54				
5	QPSK	12	0	23.57	23.67	23.56	24.5	1		
5	QPSK	12	7	23.58	23.54	23.55				
5	QPSK	12	13	23.54	23.43	23.58				
5	QPSK	25	0	23.46	23.58	23.55	24.5	1		
5	16QAM	1	0	23.64	23.80	23.67				
5	16QAM	1	12	23.62	23.73	23.60				
5	16QAM	1	24	23.62	23.63	23.58	23.5	2		
5	16QAM	12	0	22.67	22.82	22.65				
5	16QAM	12	7	22.63	22.63	22.60				
5	16QAM	12	13	22.54	22.82	22.57	23.5	2		
5	16QAM	25	0	22.63	22.69	22.60				
5	64QAM	1	0	22.68	22.74	22.63				
5	64QAM	1	12	22.51	22.64	22.58	23.5	2		
5	64QAM	1	24	22.47	22.59	22.50				
5	64QAM	12	0	21.67	21.77	21.71				
5	64QAM	12	7	21.58	21.62	21.60	22.5	3		
5	64QAM	12	13	21.66	21.68	21.61				
5	64QAM	25	0	21.60	21.75	21.61				
5	256QAM	1	0	19.45	19.56	19.44	20.5	5		
5	256QAM	1	12	19.34	19.49	19.38				
5	256QAM	1	24	19.33	19.44	19.29				
5	256QAM	12	0	19.46	19.45	19.41	20.5	5		
5	256QAM	12	7	19.33	19.45	19.33				
5	256QAM	12	13	19.27	19.40	19.20				
5	256QAM	25	0	19.32	19.41	19.28				
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	24.77	24.77	24.65	25.5	0		
3	QPSK	1	8	24.65	24.63	24.55				
3	QPSK	1	14	24.54	24.54	24.52				
3	QPSK	8	0	23.50	23.68	23.55	24.5	1		
3	QPSK	8	4	23.50	23.60	23.59				
3	QPSK	8	7	23.56	23.52	23.52				
3	QPSK	15	0	23.51	23.57	23.48	24.5	1		
3	16QAM	1	0	23.66	23.81	23.59				
3	16QAM	1	8	23.60	23.67	23.60				
3	16QAM	1	14	23.62	23.62	23.60	23.5	2		
3	16QAM	8	0	22.71	22.85	22.72				
3	16QAM	8	4	22.56	22.70	22.65				
3	16QAM	8	7	22.55	22.57	22.53	23.5	2		
3	16QAM	15	0	22.58	22.67	22.65				
3	64QAM	1	0	22.60	22.78	22.61				
3	64QAM	1	8	22.52	22.70	22.59	23.5	2		
3	64QAM	1	14	22.45	22.63	22.50				
3	64QAM	8	0	21.68	21.80	21.67				
3	64QAM	8	4	21.51	21.64	21.57	22.5	3		
3	64QAM	8	7	21.57	21.68	21.61				
3	64QAM	15	0	21.60	21.70	21.65				
3	256QAM	1	0	19.42	19.50	19.52	20.5	5		
3	256QAM	1	8	19.32	19.44	19.33				
3	256QAM	1	14	19.35	19.45	19.36				
3	256QAM	8	0	19.47	19.51	19.44	20.5	5		
3	256QAM	8	4	19.39	19.47	19.33				
3	256QAM	8	7	19.27	19.38	19.23				
3	256QAM	15	0	19.34	19.41	19.24				
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				824.7	836.5	848.3				
1.4	QPSK	1	0	24.74	24.78	24.64	25.5	0		
1.4	QPSK	1	3	24.63	24.67	24.54				
1.4	QPSK	1	5	24.61	24.55	24.50				
1.4	QPSK	3	0	23.56	23.68	23.59	24.5	1		
1.4	QPSK	3	1	23.51	23.57	23.52				
1.4	QPSK	3	3	23.55	23.51	23.59				
1.4	QPSK	6	0	23.46	23.62	23.49	24.5	1		
1.4	16QAM	1	0	23.61	23.79	23.58				
1.4	16QAM	1	3	23.66	23.69	23.62				
1.4	16QAM	1	5	23.60	23.65	23.56	24.5	1		
1.4	16QAM	3	0	23.59	23.75	23.64				
1.4	16QAM	3	1	23.64	23.67	23.63				
1.4	16QAM	3	3	23.55	23.63	23.52	23.5	2		
1.4	16QAM	6	0	22.74	22.81	22.69				
1.4	64QAM	1	0	22.63	22.69	22.66				
1.4	64QAM	1	3	22.57	22.58	22.53	23.5	2		
1.4	64QAM	1	5	22.56	22.71	22.56				
1.4	64QAM	3	0	22.64	22.77	22.63				
1.4	64QAM	3	1	22.49	22.66	22.59	22.5	3		
1.4	64QAM	3	3	22.49	22.61	22.48				
1.4	64QAM	6	0	21.70	21.76	21.64				
1.4	256QAM	1	0	19.47	19.55	19.51	20.5	5		
1.4	256QAM	1	3	19.34	19.42	19.38				
1.4	256QAM	1	5	19.30	19.42	19.30				
1.4	256QAM	3	0	19.40	19.49	19.38	20.5	5		
1.4	256QAM	3	1	19.32	19.41	19.27				
1.4	256QAM	3	3	19.22	19.32	19.19				
1.4	256QAM	6	0	19.31	19.42	19.32				

Band 4 Other PA Ant1 DS14												
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Frac	Power Med Ch./Frac	Power High Ch./Frac	Turn-up time (Sec)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	16.01	16.08	15.99	17	0				
20	QPSK	1	40	15.87	15.91	15.83						
20	QPSK	1	99	15.87	15.87	15.92						
20	QPSK	50	0	15.94	16.01	15.84	17	0				
20	QPSK	50	24	15.87	15.96	15.88						
20	QPSK	50	50	15.86	15.81	15.89						
20	QPSK	100	0	15.99	15.98	15.92	17	0				
20	16QAM	1	0	15.84	15.74	15.70						
20	16QAM	1	49	15.81	15.71	15.84						
20	16QAM	1	99	15.85	15.87	15.83	17	0				
20	16QAM	50	0	15.77	15.81	15.87						
20	16QAM	50	24	15.69	15.87	15.87						
20	16QAM	100	0	15.66	15.87	15.80	17	0				
20	64QAM	1	0	15.86	15.86	15.96						
20	64QAM	1	49	15.78	15.95	15.99						
20	64QAM	50	0	15.75	15.84	15.89	17	0				
20	64QAM	50	24	15.75	15.90	15.85						
20	64QAM	100	0	15.85	15.72	15.89						
20	256QAM	1	0	15.75	15.77	15.74	17	0				
20	256QAM	1	49	15.89	15.75	15.73						
20	256QAM	1	99	15.80	15.86	15.85						
20	256QAM	50	0	15.83	15.73	15.88	17	0				
20	256QAM	50	24	15.79	15.73	15.88						
20	256QAM	50	50	15.70	15.87	15.87						
20	256QAM	100	0	15.68	15.84	15.88	17	0				
Channel												
Frequency (MHz)												
15	QPSK	1	0	15.83	15.73	15.73	17	0				
15	QPSK	1	37	15.84	15.88	15.81						
15	QPSK	1	74	15.74	15.58	15.65						
15	QPSK	36	0	15.81	15.69	15.78	17	0				
15	QPSK	36	20	15.72	15.62	15.47						
15	QPSK	36	39	15.47	15.54	15.53						
15	16QAM	1	0	15.84	15.78	15.78	17	0				
15	16QAM	1	0	15.66	15.67	15.66						
15	16QAM	1	37	15.81	15.63	15.45						
15	16QAM	1	74	15.58	15.53	15.52	17	0				
15	16QAM	36	0	15.74	15.75	15.58						
15	16QAM	36	20	15.50	15.79	15.77						
15	16QAM	36	39	15.54	15.64	15.68	17	0				
15	16QAM	75	0	15.73	15.78	15.83						
15	64QAM	1	0	15.50	15.73	15.86	17	0				
15	64QAM	1	37	15.52	15.58	15.52						
15	64QAM	1	74	15.89	15.53	15.68						
15	64QAM	36	0	15.60	15.47	15.74	17	0				
15	64QAM	36	20	15.73	15.64	15.67						
15	64QAM	36	39	15.63	15.85	15.70						
15	64QAM	75	0	15.66	15.61	15.68	17	0				
15	256QAM	1	0	15.69	15.54	15.74						
15	256QAM	1	37	15.48	15.71	15.78						
15	256QAM	1	74	15.46	15.76	15.52	17	0				
15	256QAM	36	0	15.75	15.68	15.61						
15	256QAM	36	20	15.58	15.67	15.66						
15	256QAM	36	39	15.65	15.74	15.83	17	0				
15	256QAM	75	0	15.77	15.49	15.88						
Channel												
Frequency (MHz)												
10	QPSK	1	0	16.01	16.07	15.98	17	0				
10	QPSK	1	25	15.82	15.68	15.64						
10	QPSK	1	49	15.70	15.60	15.64						
10	QPSK	36	0	15.88	15.87	15.78	17	0				
10	QPSK	36	20	15.67	15.52	15.48						
10	QPSK	36	39	15.44	15.65	15.42						
10	16QAM	1	0	15.80	15.78	15.87	17	0				
10	16QAM	1	0	15.81	15.66	15.52						
10	16QAM	1	25	15.80	15.67	15.48						
10	16QAM	25	0	15.69	15.62	15.53	17	0				
10	16QAM	25	12	15.56	15.84	15.93						
10	16QAM	36	0	15.81	15.62	15.52						
10	16QAM	36	20	15.65	15.95	15.73	17	0				
10	16QAM	36	39	15.65	15.77	15.89						
10	16QAM	75	0	15.68	15.88	15.88						
10	64QAM	1	0	15.65	15.77	15.89	17	0				
10	64QAM	1	25	15.68	15.88	15.88						
10	64QAM	1	49	15.79	15.58	15.58						
10	64QAM	25	0	15.61	15.41	15.75	17	0				
10	64QAM	25	12	15.75	15.71	15.47						
10	64QAM	36	0	15.62	15.80	15.81						
10	64QAM	36	20	15.64	15.86	15.84	17	0				
10	64QAM	36	39	15.76	15.58	15.78						
10	256QAM	1	0	15.59	15.56	15.91						
10	256QAM	1	49	15.59	15.90	15.99	17	0				
10	256QAM	25	0	15.73	15.64	15.84						
10	256QAM	25	12	15.55	15.83	15.71						
10	256QAM	25	25	15.70	15.70	15.87	17	0				
10	256QAM	50	0	15.74	15.50	15.94						
Channel												
Frequency (MHz)												
5	QPSK	1	0	15.83	15.73	15.73	17	0				
5	QPSK	1	12	15.83	15.71	15.69						
5	QPSK	1	24	15.85	15.60	15.72						
5	QPSK	12	0	15.82	15.93	15.81	17	0				
5	QPSK	12	7	15.71	15.52	15.51						
5	QPSK	12	13	15.43	15.52	15.47						
5	QPSK	25	0	15.75	15.93	15.79	17	0				
5	QPSK	25	0	15.72	15.69	15.54						
5	QPSK	25	7	15.48	15.47	15.78						
5	16QAM	1	0	15.84	15.74	15.74	17	0				
5	16QAM	1	24	15.53	15.64	15.64						
5	16QAM	12	0	15.69	15.73	15.66						
5	16QAM	12	7	15.64	15.84	15.84	17	0				
5	16QAM	12	13	15.89	15.66	15.62						
5	16QAM	25	0	15.67	15.81	15.72						
5	16QAM	25	0	15.54	15.80	15.80	17	0				
5	16QAM	1	12	15.68	15.96	15.89						
5	16QAM	1	24	15.54	15.54	15.74						
5	16QAM	12	0	15.73	15.39	15.97	17	0				
5	16QAM	12	7	15.77	15.56	15.46						
5	16QAM	12	13	15.63	15.63	15.80						
5	256QAM	1	0	15.72	15.68	15.81	17	0				
5	256QAM	1	12	15.64	15.54	15.81						
5	256QAM	1	24	15.58	15.55	15.87						
5	256QAM	12	0	15.83	15.60	15.60	17	0				
5	256QAM	12	7	15.68	15.46	15.78						
5	256QAM	12	13	15.58	15.70	15.73						
5	256QAM	25	0	15.78	15.63	15.83	17	0				
Channel												
Frequency (MHz)												
3	QPSK	1	0	15.96	16.02	15.88	17	0				
3	QPSK	1	8	15.77	15.87	15.87						
3	QPSK	1	14	15.84	15.57	15.72						
3	QPSK	8	0	15.83	15.59	15.78	17	0				
3	QPSK	8	8	15.61	15.61	15.74						
3	QPSK	8	8	15.78	15.79	15.74						
3	QPSK	16	0	15.85	15.90	15.84	17	0				
3	QPSK	16	8	15.75	15.68	15.85						
3	QPSK	16	8	15.74	15.62	15.59						
3	16QAM	1	14	15.83	15.49	15.77	17	0				
3	16QAM	1	8	15.73	15.78	15.73						
3	16QAM	1	8	15.68	15.82	15.82						
3	16QAM	8	4	15.58	15.83	15.96	17	0				
3	16QAM	8	4	15.71	15.78	15.83						
3	16QAM	8	4	15.65	15.96	15.97						
3	16QAM	1	8	15.67	15.81	15.81	17	0				
3	16QAM	16	0	15.59	15.66	15.92						
3	16QAM	16	8	15.67	15.82	15.79						
3	256QAM	1	14	15.55	15.95	15.87	17	0				
3	256QAM	8	0	15.62	15.61	15.71						
3	256QAM	8	0	15.68	15.58	15.97						
3	256QAM	8	7	15.54	15.78	15.68	17	0				
3	256QAM	16	0	15.57	15.67	15.87						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	15.70	15.66	15.53	17	0				
1.4	QPSK	1	8	15.67	15.72	15.62						
1.4	QPSK	1	5	15.65	15.59	15.70						
1.4	QPSK	3	0	15.70	15.90	15.87	17	0				
1.4	QPSK	3	8	15.65	15.71	15.65						
1.4	QPSK	3	3	15.68	15.41	15.67						
1.4	16QAM	1	0	15.76	15.85	15.87	17	0				
1.4	16QAM	1	8	15.69	15.89	15.81						
1.4	16QAM	1	3	15.68	15.69	15.65						
1.4	16QAM	3	0	15.72	15.82	15.75	17	0				
1.4	16QAM	3	8	15.62	15.49	15.56						
1.4	16QAM	3	3	15.65	15.49	15.51						
1.4	16QAM	6	0	15.67	15.67	15.84	17	0				
1.4	16QAM	6	0	15.62	15.65	15.84						
1.4	16QAM	6	8	15.59	15.70	15.82						
1.4	16QAM	6	3	15.60	15.83	15.84	17	0				
1.4	16QAM	6	8	15.67	15.67	15.51						
1.4	16QAM	6	3	15.50	15.75	15.64						
1.4	256QAM	1	8	15.51	15.59	15.76	17	0				
1.4	256QAM	1	3	15.65	15.75	15.72						
1.4	256QAM	3	0	15.62	15.72	15.53						
1.4	256QAM	3	3	15.53	15.72	15.48	17	0				
1.4	256QAM	6	0	15.62	15.62							

Band 4 Other PA Ant2 DSI4																
SW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dB)	MFR (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	18.84	18.59	18.88	19.5	0								
20	QPSK	1	49	18.73	18.74	18.76										
20	QPSK	1	99	18.59	18.65	18.77										
20	QPSK	50	0	18.82	18.54	18.86	19.5	0								
20	QPSK	50	24	18.68	18.72	18.84										
20	QPSK	50	50	18.59	18.53	18.77										
20	16QAM	100	0	18.76	18.51	18.78	19.5	0								
20	16QAM	1	0	18.65	18.58	18.47										
20	16QAM	1	49	18.66	18.42	18.50										
20	16QAM	1	99	18.51	18.53	18.63	19.5	0								
20	16QAM	50	0	18.51	18.61	18.85										
20	16QAM	50	24	18.57	18.54	18.81										
20	16QAM	50	50	18.61	18.67	18.69	19.5	0								
20	16QAM	100	0	18.50	18.58	18.51										
20	64QAM	1	0	18.63	18.62	18.84	19.5	0								
20	64QAM	1	49	18.67	18.53	18.95										
20	64QAM	1	99	18.68	18.64	18.91										
20	64QAM	50	0	18.52	18.62	18.50	19.5	0								
20	64QAM	50	24	18.38	18.49	18.35										
20	64QAM	50	50	18.45	18.55	18.49										
20	64QAM	100	0	18.52	18.58	18.51	19.5	0								
20	256QAM	1	0	18.48	18.58	18.55										
20	256QAM	1	49	18.43	18.49	18.40										
20	256QAM	1	99	18.37	18.45	18.39	19.5	0								
20	256QAM	50	0	18.43	18.50	18.43										
20	256QAM	50	24	18.36	18.44	18.36										
20	256QAM	50	50	18.28	18.37	18.29	19.5	0								
20	256QAM	100	0	18.32	18.44	18.38										
Channel																
Frequency (MHz)																
15	QPSK	1	0	18.71	18.74	18.72	19.5	0								
15	QPSK	1	37	18.63	18.69	18.64										
15	QPSK	1	74	18.58	18.54	18.65										
15	QPSK	36	0	18.71	18.69	18.72	19.5	0								
15	QPSK	36	20	18.57	18.59	18.52										
15	QPSK	36	39	18.49	18.49	18.63										
15	QPSK	75	0	18.74	18.71	18.67	19.5	0								
15	16QAM	1	0	18.45	18.42	18.40										
15	16QAM	1	37	18.57	18.27	18.33										
15	16QAM	1	74	18.34	18.42	18.55	19.5	0								
15	16QAM	36	0	18.38	18.55	18.67										
15	16QAM	36	20	18.49	18.63	18.76										
15	16QAM	36	39	18.60	18.57	18.48	19.5	0								
15	16QAM	75	0	18.33	18.62	18.62										
15	64QAM	1	0	18.60	18.49	18.81	19.5	0								
15	64QAM	1	37	18.50	18.73	18.71										
15	64QAM	1	74	18.58	18.49	18.55										
15	64QAM	36	0	18.40	18.53	18.36	19.5	0								
15	64QAM	36	20	18.29	18.36	18.22										
15	64QAM	36	39	18.37	18.50	18.41										
15	64QAM	75	0	18.37	18.49	18.40	19.5	0								
15	256QAM	1	0	18.42	18.44	18.44										
15	256QAM	1	37	18.34	18.38	18.27										
15	256QAM	1	74	18.26	18.38	18.31	19.5	0								
15	256QAM	36	0	18.26	18.37	18.36										
15	256QAM	36	20	18.24	18.37	18.30										
15	256QAM	36	39	18.20	18.28	18.16	19.5	0								
15	256QAM	75	0	18.25	18.37	18.22										
Channel																
Frequency (MHz)																
10	QPSK	1	0	18.63	18.77	18.66	19.5	0								
10	QPSK	1	25	18.55	18.54	18.63										
10	QPSK	1	49	18.51	18.61	18.74										
10	QPSK	25	0	18.79	18.77	18.76	19.5	0								
10	QPSK	25	12	18.54	18.58	18.51										
10	QPSK	25	25	18.55	18.34	18.68										
10	QPSK	80	0	18.72	18.71	18.64	19.5	0								
10	16QAM	1	0	18.48	18.41	18.39										
10	16QAM	1	25	18.48	18.38	18.33										
10	16QAM	1	49	18.36	18.43	18.51	19.5	0								
10	16QAM	25	0	18.33	18.61	18.76										
10	16QAM	25	12	18.41	18.62	18.75										
10	16QAM	25	25	18.68	18.48	18.44	19.5	0								
10	16QAM	50	0	18.41	18.57	18.59										
10	64QAM	1	0	18.59	18.46	18.70	19.5	0								
10	64QAM	1	25	18.54	18.71	18.85										
10	64QAM	1	49	18.53	18.52	18.46										
10	64QAM	25	0	18.39	18.53	18.43	19.5	0								
10	64QAM	25	12	18.29	18.43	18.23										
10	64QAM	25	25	18.38	18.47	18.41										
10	64QAM	50	0	18.43	18.43	18.36	19.5	0								
10	256QAM	1	0	18.39	18.48	18.44										
10	256QAM	1	25	18.30	18.39	18.30										
10	256QAM	1	49	18.26	18.37	18.32	19.5	0								
10	256QAM	25	0	18.36	18.42	18.31										
10	256QAM	25	12	18.23	18.32	18.23										
10	256QAM	25	25	18.18	18.23	18.21	19.5	0								
10	256QAM	50	0	18.20	18.31	18.23										
Channel																
Frequency (MHz)																
5	QPSK	1	0	18.77	18.78	18.85	19.5	0								
5	QPSK	1	12	18.58	18.62	18.65										
5	QPSK	1	24	18.57	18.47	18.62										
5	QPSK	12	0	18.69	18.63	18.72	19.5	0								
5	QPSK	12	7	18.67	18.70	18.54										
5	QPSK	12	13	18.49	18.38	18.70										
5	QPSK	25	0	18.67	18.78	18.78	19.5	0								
5	16QAM	1	0	18.57	18.53	18.36										
5	16QAM	1	12	18.59	18.36	18.41										
5	16QAM	1	24	18.42	18.43	18.65	19.5	0								
5	16QAM	12	0	18.50	18.61	18.67										
5	16QAM	12	7	18.48	18.50	18.70										
5	16QAM	12	13	18.79	18.53	18.53	19.5									

Band 4 Other PA Ant3 DSI4														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dBm)	MPR (dB)						
Channel														
1720 1720 1743														
Frequency (MHz)														
20	QPSK	1	0	19.12	19.20	19.13	20.5	0	24	0				
20	QPSK	1	49	19.98	19.99	19.94								
20	QPSK	1	99	18.93	18.92	18.95								
20	QPSK	50	0	19.11	19.16	19.15	20.5	0	24	0				
20	QPSK	50	24	19.93	19.19	19.00								
20	QPSK	50	50	18.98	18.96	19.02								
20	QPSK	100	0	19.14	19.16	19.11	20.5	0	24	0				
20	16QAM	1	0	19.93	19.90	19.99								
20	16QAM	1	49	18.95	18.72	18.69								
20	16QAM	1	99	18.82	18.82	18.90	20.5	0	23.5	0.5				
20	16QAM	50	0	19.54	18.82	18.58								
20	16QAM	50	24	18.59	18.88	18.52								
20	16QAM	100	0	18.53	18.78	18.56	20.5	0	23.5	0.5				
20	64QAM	1	0	18.54	18.80	18.56								
20	64QAM	1	49	18.59	18.72	18.52								
20	64QAM	1	99	18.53	18.65	18.52	20.5	0	22.5	1.5				
20	64QAM	50	0	18.65	18.86	18.63								
20	64QAM	50	24	18.67	18.73	18.63								
20	64QAM	50	50	18.67	18.79	18.64	20.5	0	22.5	1.5				
20	64QAM	100	0	18.62	18.82	18.68								
20	256QAM	1	0	18.52	18.68	18.55								
20	256QAM	1	49	18.56	18.59	18.56	20.5	0	20.5	3.5				
20	256QAM	1	99	18.51	18.55	18.52								
20	256QAM	50	0	18.58	18.61	18.53								
20	256QAM	50	24	18.53	18.55	18.51	20.5	0	20.5	3.5				
20	256QAM	50	50	18.59	18.58	18.53								
20	256QAM	100	0	18.52	18.58	18.50								
Channel														
20175 20175 20175														
Frequency (MHz)														
15	QPSK	1	0	19.10	19.15	19.13	20.5	0	24	0				
15	QPSK	1	37	19.12	19.12	19.12								
15	QPSK	1	74	18.92	18.83	19.01								
15	QPSK	36	0	19.04	18.99	19.03	20.5	0	24	0				
15	QPSK	36	20	18.84	18.94	18.81								
15	QPSK	36	36	18.79	18.94	19.02								
15	16QAM	1	0	18.87	18.89	18.89	20.5	0	24	0				
15	16QAM	1	37	18.86	18.81	18.97								
15	16QAM	1	74	18.74	18.74	18.71								
15	16QAM	36	0	18.54	18.74	18.52	20.5	0	23.5	0.5				
15	16QAM	36	20	18.57	18.53	18.53								
15	16QAM	36	36	18.58	18.57	18.52								
15	16QAM	75	0	18.54	18.65	18.59	20.5	0	23.5	0.5				
15	64QAM	1	0	18.58	18.70	18.57								
15	64QAM	1	37	18.52	18.63	18.53								
15	64QAM	1	74	18.55	18.51	18.51	20.5	0	22.5	1.5				
15	64QAM	36	0	18.63	18.81	18.65								
15	64QAM	36	20	18.62	18.65	18.66								
15	64QAM	36	36	18.66	18.69	18.70	20.5	0	20.5	3.5				
15	64QAM	75	0	18.70	18.77	18.68								
15	256QAM	1	0	18.52	18.55	18.51								
15	256QAM	1	37	18.53	18.59	18.58	20.5	0	20.5	3.5				
15	256QAM	1	74	18.50	18.52	18.53								
15	256QAM	36	0	18.51	18.51	18.67								
15	256QAM	36	20	18.64	18.67	18.62	20.5	0	20.5	3.5				
15	256QAM	36	36	18.52	18.59	18.53								
15	256QAM	75	0	18.57	18.52	18.51								
Channel														
20175 20175 20175														
Frequency (MHz)														
10	QPSK	1	0	18.59	18.57	18.59	20.5	0	24	0				
10	QPSK	1	25	18.83	19.01	18.78								
10	QPSK	1	49	18.82	18.78	19.01								
10	QPSK	25	0	18.07	18.18	18.06	20.5	0	24	0				
10	QPSK	25	12	18.91	19.08	18.99								
10	QPSK	25	25	18.84	18.84	18.87								
10	16QAM	1	0	18.13	18.26	18.11	20.5	0	24	0				
10	16QAM	1	0	18.82	18.73	18.84								
10	16QAM	1	25	18.87	18.71	18.84								
10	16QAM	1	49	18.80	18.63	18.74	20.5	0	23.5	0.5				
10	16QAM	25	0	18.60	18.74	18.65								
10	16QAM	25	12	18.58	18.56	18.60								
10	16QAM	25	25	18.51	18.53	18.58	20.5	0	23.5	0.5				
10	16QAM	50	0	18.51	18.70	18.70								
10	64QAM	1	0	18.60	18.68	18.63								
10	64QAM	1	25	18.54	18.60	18.60	20.5	0	22.5	1.5				
10	64QAM	1	49	18.58	18.57	18.57								
10	64QAM	25	0	18.73	18.76	18.69								
10	64QAM	25	12	18.65	18.65	18.62	20.5	0	20.5	3.5				
10	64QAM	25	25	18.64	18.67	18.77								
10	64QAM	50	0	18.61	18.72	18.64								
10	256QAM	1	0	18.55	18.60	18.59	20.5	0	20.5	3.5				
10	256QAM	1	49	18.53	18.54	18.51								
10	256QAM	25	0	18.53	18.55	18.57								
10	256QAM	25	12	18.56	18.53	18.58	20.5	0	20.5	3.5				
10	256QAM	25	25	18.58	18.58	18.52								
10	256QAM	50	0	18.52	18.52	18.53								
Channel														
19175 20175 20175														
Frequency (MHz)														
5	QPSK	1	0	19.10	19.02	19.09	20.5	0	24	0				
5	QPSK	1	12	18.94	19.01	19.92								
5	QPSK	1	24	18.82	18.88	19.01								
5	QPSK	12	0	19.02	19.12	19.06	20.5	0	24	0				
5	QPSK	12	7	18.88	19.03	18.89								
5	QPSK	12	13	18.96	18.91	18.98								
5	QPSK	25	0	19.12	19.12	18.95	20.5	0	24	0				
5	16QAM	1	0	18.90	18.84	18.70								
5	16QAM	1	12	18.86	18.54	18.84								
5	16QAM	1	24	18.65	18.80	18.95	20.5	0	23.5	0.5				
5	16QAM	12	0	18.90	19.03	19.00								
5	16QAM	12	7	18.77	18.65	18.96								
5	16QAM	12	13	18.65	18.75	18.98	20.5	0	23.5	0.5				
5	16QAM	25	0	18.87	18.98	18.95								
5	64QAM	1	0	18.97	19.05	18.97								
5	64QAM	1	12	18.80	18.62	18.95	20.5	0	22.5	1.5				
5	64QAM	1	24	18.77	18.86	18.94								
5	64QAM	12	0	18.78	18.90	18.80								
5	64QAM	12	7	18.84	18.72	18.70	20.5	0	20.5	3.5				
5	64QAM	12	13	18.69	18.80	18.92	20.5	0	20.5	3.5				
5	64QAM	25	0	18.80	18.85	18.84								
5	64QAM	25	12	18.78	18.78	18.77								
5	64QAM	25	25	18.69	18.76	18.76	20.5	0	20.5	3.5				
5	64QAM	50	0	18.60	18.75	18.60								
5	256QAM	1	0	18.53	18.53	18.62								
5	256QAM	1	12	18.56	18.53	18.58	20.5	0	20.5	3.5				
5	256QAM	1	24	18.61	18.65	18.63								
5	256QAM	12	0	18.73	18.75	18.68								
Channel														
17115 17225 1753.5														
Frequency (MHz)														
3	QPSK	1	0	19.07	19.11	19.09	20.5	0	24	0				
3	QPSK	1	12	18.82	19.06	18.88								
3	QPSK	1	24	18.77	18.75	19.01								
3	QPSK	8	0	19.03	19.04	19.09	20.5	0	24	0				
3	QPSK	8	4	18.93	18.99	19.01								
3	QPSK	8	8	18.92	18.94	19.03								
3	QPSK	16	0	19.12	19.01	19.09	20.5	0	24	0				
3	16QAM	1	0	18.76	18.76	18.76								
3	16QAM	1	8	18.89	18.82	18.68								
3	16QAM	1	16	18.85	18.75	18.72	20.5	0	23.5	0.5				
3	16QAM	8	0	18.93	18.95	18.94								
3	16QAM	8	8	18.83	18.90	18.97								
3	16QAM	16	0	18.80	18.88	18.88	20.5	0	23.5	0.5				
3	16QAM	16	8	18.84	18.87	18.80								
3	16QAM	16	16	18.70	18.82	18.76								
3	256QAM	1	0	18.63	18.68	18.69	20.5	0	20.5	3.5				
3	256QAM	1	8	18.77	18.77	18.71								
3	256QAM	1	16	18.67	18.67	18.67								
3	256QAM	16	0	18.70	18.82	18.76	20.5	0	20.5	3.5				
3	256QAM	16	8	18.63	18.68	18.69								
3	256QAM	16	16	18.54	18.67	18.67								
3	256QAM	64	0	18.52	18.59	18.65	20.5	0	20.5	3.5				
3	256QAM	64	8	18.70	18.84	18.81								
3	256QAM	64	16	18.56	18.67	18.58								
3	256QAM	128	0	18.70	18.74	18.74	20.5	0	20.5	3.5				
Channel														
1710.7 1722.5 1754.3														
Frequency (MHz)														
1.4	QPSK	1	0	19.04	19.14	19.04	20.5	0	24	0				
1.4	QPSK	1	8	18.92	19.02	18.92								
1.4	QPSK	1	16	18.87	18.97	18.87								
1.4	QPSK	1	5	19.03	19.08	19.07	20.5	0	24	0				
1.4	QPSK	1	10	18.93	19.04	19.09								
1.4	QPSK	1	19	18.90	18.92	18.95								
1.4	QPSK	3	0	19.07	19.07	19.07	20.5	0	24	0				
1.4	QPSK	3	3	18.80	18.95	18.87								
1.4	QPSK	3	6	19.01	19.06	19.07								
1.4	QPSK	6	0	19.01	19.06	19.07	20.5	0	24	0				
1.4	QPSK	6	3	18.82	18.92	18.87								
1.4	QPSK	6	6	18.80	18.70	18.76								
1.4	16QAM	1	0	18.80	18.70	18.80	20.5	0	24	0				
1.4	16QAM	1	5	18.70	18.78	18.80								
1.4	16QAM	1	10	18.63	18.71	18.71								
1.4	16QAM	3	0	18.92	18.95	18.95	20.5	0	24	0				
1.4	16QAM	3	3	18.90	18.76	18.85								
1.4	16QAM	3	6	18.80	18.70	18.76								
1.4	16QAM	6	0	18.76	18.85	18.94	20.5	0	24	0				
1.4	16QAM	6	3	18.67	18.79	18.79								
1.4	16QAM													

Band 4 Other PA Ant4										
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dB)	Margin (dB)		
Channel				2000	20175	20350				
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	23.07	23.27	23.21	24.5	0		
20	QPSK	1	49	22.91	23.15	23.12				
20	QPSK	1	99	23.03	23.22	23.20				
20	QPSK	50	0	21.98	22.27	22.14	23.5	1		
20	QPSK	50	24	22.00	22.18	22.14				
20	QPSK	50	50	22.05	22.23	22.24				
20	QPSK	100	0	22.00	22.19	22.10	23.5	1		
20	16QAM	1	0	22.03	22.21	22.11				
20	16QAM	1	99	22.09	22.27	22.25				
20	16QAM	50	0	21.05	21.25	21.22	22.5	2		
20	16QAM	50	24	21.08	21.26	21.20				
20	16QAM	50	50	21.04	21.21	21.14				
20	16QAM	100	0	20.99	21.23	21.15	22.5	2		
20	64QAM	1	0	20.93	21.13	21.11				
20	64QAM	1	49	21.00	21.24	21.14				
20	64QAM	1	99	21.00	21.23	21.17	21.5	3		
20	64QAM	50	0	20.93	20.22	20.17				
20	64QAM	50	24	20.98	20.25	20.20				
20	64QAM	50	50	20.95	20.23	20.18	19.5	5		
20	64QAM	100	0	20.91	20.20	20.16				
20	256QAM	1	0	17.81	18.02	17.90				
20	256QAM	1	49	17.87	18.11	18.07	19.5	5		
20	256QAM	1	99	17.83	18.04	17.97				
20	256QAM	50	0	18.06	18.26	18.18				
20	256QAM	50	24	17.93	18.16	18.15	19.5	5		
20	256QAM	50	50	17.94	18.17	18.14				
20	256QAM	100	0	18.00	18.19	18.13				
Channel				20005	20175	20350	Turn-up time (dB)		Margin (dB)	
Frequency (MHz)				1717.5	1732.5	1747.5				
15	QPSK	1	0	22.83	23.12	23.10	24.5	0		
15	QPSK	1	37	22.80	23.03	23.04				
15	QPSK	1	74	22.90	23.11	23.12				
15	QPSK	36	0	21.80	22.14	22.04	23.5	1		
15	QPSK	36	20	21.89	22.12	22.05				
15	QPSK	36	39	22.00	22.16	22.10				
15	QPSK	75	0	21.88	22.14	22.02	23.5	1		
15	16QAM	1	0	21.97	22.15	22.01				
15	16QAM	1	37	22.02	22.17	22.14				
15	16QAM	1	74	21.94	22.17	22.20	22.5	2		
15	16QAM	36	0	20.97	21.14	21.11				
15	16QAM	36	20	21.01	21.12	21.08				
15	16QAM	36	39	20.90	21.08	21.02	22.5	2		
15	16QAM	75	0	20.92	21.17	21.02				
15	64QAM	1	0	20.82	21.02	21.05				
15	64QAM	1	37	20.89	21.15	21.09	21.5	3		
15	64QAM	1	74	20.90	21.16	21.11				
15	64QAM	36	0	19.94	20.09	20.09				
15	64QAM	36	20	19.97	20.16	20.05	19.5	5		
15	64QAM	36	39	19.98	20.08	20.03				
15	64QAM	75	0	19.92	20.07	20.06				
15	256QAM	1	0	17.65	17.90	17.83	19.5	5		
15	256QAM	1	37	17.74	18.04	17.97				
15	256QAM	1	74	17.76	17.92	17.90				
15	256QAM	36	0	17.97	18.11	18.02	19.5	5		
15	256QAM	36	20	17.82	18.03	18.01				
15	256QAM	36	39	17.89	18.11	18.02				
15	256QAM	75	0	17.90	18.08	18.05				
Channel				20000	20175	20350	Turn-up time (dB)	Margin (dB)		
Frequency (MHz)				1715	1732.5	1750				
10	QPSK	1	0	23.02	23.15	23.11	24.5	0		
10	QPSK	1	25	22.78	23.03	23.01				
10	QPSK	1	49	22.88	23.08	23.12				
10	QPSK	25	0	21.84	22.06	22.05	23.5	1		
10	QPSK	25	12	21.94	22.06	22.05				
10	QPSK	25	25	21.98	22.20	22.12				
10	QPSK	50	0	21.85	22.04	21.98	23.5	1		
10	16QAM	1	0	21.98	22.08	22.02				
10	16QAM	1	25	22.00	22.20	22.13				
10	16QAM	1	49	22.04	22.21	22.16	22.5	2		
10	16QAM	25	0	20.95	21.19	21.19				
10	16QAM	25	12	20.99	21.21	21.07				
10	16QAM	25	25	20.97	21.11	21.01	21.5	3		
10	16QAM	50	0	20.91	21.15	21.08				
10	64QAM	1	0	20.83	21.08	21.01				
10	64QAM	1	25	20.91	21.18	21.04	21.5	2		
10	64QAM	1	49	20.94	21.16	21.10				
10	64QAM	25	0	19.90	20.07	20.10				
10	64QAM	25	12	19.94	20.15	20.07	21.5	3		
10	64QAM	25	25	19.92	20.15	20.07				
10	64QAM	50	0	19.95	20.13	20.02				
10	256QAM	1	0	17.67	17.92	17.88	19.5	5		
10	256QAM	1	25	17.73	18.03	17.96				
10	256QAM	1	49	17.72	17.90	17.85				
10	256QAM	25	0	17.91	18.14	18.02	19.5	5		
10	256QAM	25	12	17.88	18.08	18.00				
10	256QAM	25	25	17.81	18.10	18.06				
10	256QAM	50	0	17.91	18.09	18.05				
Channel				19975	20175	20375	Turn-up time (dB)	Margin (dB)		
Frequency (MHz)				1712.5	1732.5	1752.5				
5	QPSK	1	0	22.98	23.14	23.11	24.5	0		
5	QPSK	1	12	22.83	23.06	23.03				
5	QPSK	1	24	22.96	23.16	23.09				
5	QPSK	12	0	21.83	22.17	22.05	23.5	1		
5	QPSK	12	7	21.91	22.12	22.05				
5	QPSK	12	13	21.98	22.15	22.12				
5	QPSK	25	0	21.85	22.08	21.98	23.5	1		
5	16QAM	1	0	21.93	22.07	21.97				
5	16QAM	1	12	22.03	22.18	22.14				
5	16QAM	1	24	21.99	22.15	22.11	22.5	2		
5	16QAM	12	0	20.96	21.17	21.13				
5	16QAM	12	7	20.96	21.16	21.09				
5	16QAM	12	13	20.96	21.10	21.08	21.5	3		
5	16QAM	25	0	20.90	21.13	21.07				
5	64QAM	1	0	20.86	21.05	21.02				
5	64QAM	1	12	20.88	21.09	21.07	21.5	2		
5	64QAM	1	24	20.86	21.12	21.10				
5	64QAM	12	0	19.95	20.14	20.03				
5	64QAM	12	7	19.98	20.11	20.06	21.5	3		
5	64QAM	12	13	19.92	20.13	20.07				
5	64QAM	25	0	19.90	20.12	20.10				

Band 12 Other PA Ant0													
RF (MHz)	Modulation	RE Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Total-up limit (dB)						
Channel				2400	2405	2410							
Frequency (MHz)				704	707.5	711							
10	QPSK	1	0	24.50	24.50	24.44	25.5	0	24.5	1			
10	QPSK	1	25	24.37	24.44	24.45							
10	QPSK	1	49	24.40	24.50	24.45							
10	QPSK	25	0	23.70	23.74	23.63	24.5	1	23.58	1			
10	QPSK	25	12	23.63	23.67	23.61							
10	QPSK	25	25	23.49	23.64	23.58							
10	QPSK	50	0	23.55	23.59	23.55	24.5	1	23.52	1			
10	16QAM	1	0	23.47	23.62	23.58							
10	16QAM	1	25	23.59	23.68	23.62							
10	16QAM	1	49	23.54	23.57	23.48	23.5	2	22.54	2			
10	16QAM	25	0	22.55	22.65	22.62							
10	16QAM	25	12	22.81	22.66	22.52							
10	16QAM	25	25	22.44	22.51	22.44	23.5	2	22.54	2			
10	16QAM	50	0	22.54	22.61	22.58							
10	16QAM	1	0	22.54	22.66	22.54							
10	16QAM	1	25	22.60	22.68	22.54	22.5	3	21.84	3			
10	16QAM	1	49	22.70	22.78	22.61							
10	16QAM	25	0	21.48	21.59	21.50							
10	16QAM	25	12	21.61	21.86	21.84	20.5	5	19.52	5			
10	16QAM	25	25	21.60	21.75	21.65							
10	16QAM	50	0	21.90	22.04	21.92							
10	256QAM	1	0	20.00	20.13	19.99	20.5	5	19.08	5			
10	256QAM	1	25	19.81	19.92	19.88							
10	256QAM	1	49	20.05	20.17	20.08							
10	256QAM	25	0	19.47	19.55	19.52	20.5	5	19.52	5			
10	256QAM	25	12	19.80	19.84	19.75							
10	256QAM	25	25	19.80	19.72	19.67							
10	256QAM	50	0	19.85	19.89	19.85							
Channel				2405	2405	2410							
Frequency (MHz)				707.5	707.5	713.5							
5	QPSK	1	0	24.42	24.45	24.36	25.5	0	24.35	1			
5	QPSK	1	12	24.34	24.34	24.35							
5	QPSK	1	24	24.27	24.38	24.37							
5	QPSK	12	0	23.57	23.63	23.55	24.5	1	23.49	1			
5	QPSK	12	7	23.61	23.63	23.64							
5	QPSK	12	13	23.39	23.55	23.50							
5	16QAM	1	0	23.44	23.58	23.49	24.5	1	23.38	1			
5	16QAM	1	24	23.36	23.53	23.49							
5	16QAM	1	12	23.47	23.61	23.58							
5	16QAM	1	24	23.39	23.51	23.38	23.5	2	22.48	2			
5	16QAM	12	0	22.48	22.54	22.55							
5	16QAM	12	7	22.49	22.51	22.48							
5	16QAM	12	13	22.31	22.48	22.45	23.5	2	22.48	2			
5	16QAM	25	0	22.74	22.85	22.73							
5	16QAM	1	0	22.45	22.62	22.41							
5	16QAM	1	12	22.50	22.65	22.49	22.5	3	21.52	3			
5	16QAM	1	24	22.80	22.83	22.54							
5	16QAM	12	0	21.42	21.55	21.41							
5	16QAM	12	7	21.71	21.80	21.73	20.5	5	19.52	5			
5	16QAM	12	13	21.53	21.68	21.51							
5	16QAM	25	0	21.85	21.97	21.77							
5	256QAM	1	0	19.88	19.99	19.89	20.5	5	19.75	5			
5	256QAM	1	12	19.76	19.81	19.75							
5	256QAM	1	24	19.97	20.14	19.91							
5	256QAM	12	0	19.41	19.42	19.39	20.5	5	19.52	5			
5	256QAM	12	7	19.69	19.74	19.57							
5	256QAM	12	13	19.45	19.59	19.51							
5	256QAM	25	0	19.71	19.82	19.73							
Channel				2405	2405	2410							
Frequency (MHz)				707.5	707.5	714.5							
3	QPSK	1	0	24.40	24.52	24.41	25.5	0	24.35	1			
3	QPSK	1	8	24.34	24.34	24.34							
3	QPSK	1	14	24.36	24.40	24.38							
3	QPSK	8	0	23.68	23.68	23.49	24.5	1	23.58	1			
3	QPSK	8	4	23.55	23.59	23.58							
3	QPSK	8	7	23.39	23.52	23.53							
3	16QAM	1	0	23.50	23.62	23.48	24.5	1	23.58	1			
3	16QAM	1	8	23.47	23.53	23.55							
3	16QAM	1	14	23.48	23.43	23.38							
3	16QAM	8	0	22.45	22.58	22.59	23.5	2	22.48	2			
3	16QAM	8	4	22.47	22.59	22.48							
3	16QAM	8	7	22.39	22.40	22.45							
3	16QAM	15	0	22.77	22.77	22.79	23.5	2	22.48	2			
3	16QAM	1	0	22.44	22.57	22.41							
3	16QAM	1	8	22.56	22.58	22.39							
3	16QAM	1	14	22.59	22.73	22.52	22.5	3	21.52	3			
3	16QAM	8	0	21.44	21.55	21.43							
3	16QAM	8	4	21.77	21.83	21.75							
3	16QAM	8	7	21.49	21.61	21.52	20.5	5	19.52	5			
3	16QAM	15	0	21.79	22.00	21.83							
3	256QAM	1	0	19.86	20.01	19.89							
3	256QAM	1	8	19.67	19.80	19.77	20.5	5	19.52	5			
3	256QAM	1	14	19.98	20.04	19.82							
3	256QAM	8	0	19.43	19.50	19.43							
3	256QAM	8	4	19.72	19.70	19.59	20.5	5	19.52	5			
3	256QAM	8	7	19.48	19.59	19.53							
3	256QAM	15	0	19.81	19.81	19.81							
Channel				2407	2405	2410							
Frequency (MHz)				699.7	707.5	716.3							
1.4	QPSK	1	0	24.41	24.49	24.23	25.5	0	24.35	1			
1.4	QPSK	1	3	24.34	24.38	24.25							
1.4	QPSK	1	5	24.35	24.41	24.38							
1.4	QPSK	3	0	24.40	24.44	24.35	24.5	1	23.54	1			
1.4	QPSK	3	1	24.25	24.35	24.30							
1.4	QPSK	3	3	24.30	24.41	24.32							
1.4	16QAM	8	0	23.58	23.68	23.54	24.5	1	23.53	1			
1.4	16QAM	1	0	23.51	23.54	23.53							
1.4	16QAM	1	3	23.39	23.52	23.52							
1.4	16QAM	1	5	23.46	23.59	23.47	23.5	2	22.48	2			
1.4	16QAM	3	0	23.42	23.48	23.47							
1.4	16QAM	3	1	23.50	23.59	23.56							
1.4	16QAM	3	3	23.44	23.48	23.35	23.5	2	22.48	2			
1.4	16QAM	8	0	22.81	22.81	22.47							
1.4	16QAM	1	0	22.49	22.54	22.44							
1.4	16QAM	1	3	22.40	22.43	22.38	23.5	2	22.48	2			
1.4	16QAM	1	5	22.45	22.50	22.42							
1.4	16QAM	3	0	22.47	22.59	22.47							
1.4	16QAM	3	1	22.50	22.60	22.47	22.5	3	21.52	3			
1.4	16QAM	3	3	22.59	22.62	22.55							
1.4	16QAM	4	0	21.58	21.62	21.59							
1.4	256QAM	1	0	19.89	19.99	19.89	20.5	5	19.52	5			
1.4	256QAM	1	3	19.69	19.89	19.74							
1.4	256QAM	1	5	19.70	19.83	19.67							
1.4	256QAM	3	0	19.68	19.88	19.73	20.5	5	19.52	5			
1.4	256QAM	3	1	19.79	19.76	19.73							
1.4	256QAM	3	3	19.69	19.76	19.73							



Band 17 Other PA Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	APRS (dB)	
Channel				23760	23760	23805			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.43	24.51	24.46			
10	QPSK	1	26	24.31	24.40	24.36	25.5	0	
10	QPSK	1	49	24.38	24.47	24.33			
10	QPSK	25	0	23.64	23.68	23.67			
10	QPSK	25	14	23.45	23.50	23.46	24.5	1	
10	QPSK	25	26	23.34	23.46	23.34			
10	QPSK	50	0	23.48	23.50	23.49			
10	16QAM	1	0	23.46	23.50	23.42			
10	16QAM	1	26	23.29	23.42	23.32	24.5	1	
10	16QAM	1	49	23.21	23.34	23.26			
10	16QAM	25	0	22.58	22.73	22.62			
10	16QAM	25	12	22.69	22.72	22.58	23.5	2	
10	16QAM	25	25	22.69	22.73	22.62			
10	16QAM	50	0	22.67	22.70	22.73			
10	64QAM	1	0	22.43	22.50	22.41			
10	64QAM	1	26	22.50	22.54	22.46	23.5	2	
10	64QAM	1	49	22.36	22.50	22.51			
10	64QAM	25	0	21.59	21.66	21.59			
10	64QAM	25	12	21.68	21.77	21.66	22.5	3	
10	64QAM	25	25	21.50	21.56	21.49			
10	64QAM	50	0	21.59	21.66	21.62			
10	256QAM	1	0	19.62	19.60	19.61			
10	256QAM	1	26	19.63	19.61	19.76	20.5	5	
10	256QAM	1	49	19.59	19.70	19.66			
10	256QAM	25	0	19.47	19.58	19.46			
10	256QAM	25	12	19.52	19.60	19.59	20.5	5	
10	256QAM	25	25	19.50	19.54	19.43			
10	256QAM	50	0	19.60	19.67	19.58			
Channel				23765	23766	23805	Turn-up limit (dBm)	APRS (dB)	
Frequency (MHz)				709.5	710	711.5			
5	QPSK	1	0	24.39	24.45	24.43			
5	QPSK	1	12	24.24	24.30	24.25	25.5	0	
5	QPSK	1	24	24.35	24.36	24.22			
5	QPSK	12	0	23.59	23.61	23.49			
5	QPSK	12	7	23.40	23.47	23.39	24.5	1	
5	QPSK	12	19	23.28	23.42	23.25			
5	QPSK	25	0	23.44	23.50	23.39			
5	16QAM	1	0	23.32	23.45	23.31			
5	16QAM	1	12	23.20	23.32	23.26	24.5	1	
5	16QAM	1	24	23.07	23.29	23.22			
5	16QAM	12	0	22.64	22.61	22.51			
5	16QAM	12	7	22.66	22.59	22.54	23.5	2	
5	16QAM	12	16	22.56	22.59	22.51			
5	16QAM	25	0	22.57	22.67	22.63			
5	64QAM	1	0	22.38	22.37	22.37			
5	64QAM	1	12	22.41	22.46	22.37	23.5	2	
5	64QAM	1	24	22.22	22.27	22.15			
5	64QAM	12	0	21.44	21.58	21.53			
5	64QAM	12	7	21.60	21.70	21.54	22.5	3	
5	64QAM	12	19	21.37	21.51	21.35			
5	64QAM	25	0	21.44	21.57	21.49			
5	256QAM	1	0	19.76	19.70	19.68			
5	256QAM	1	12	19.72	19.75	19.66	20.5	5	
5	256QAM	1	24	19.48	19.59	19.53			
5	256QAM	12	0	19.37	19.46	19.33			
5	256QAM	12	7	19.39	19.47	19.43	20.5	5	
5	256QAM	12	19	19.44	19.48	19.33			
5	256QAM	25	0	19.56	19.63	19.52			

Band 12 Other PA Ant1											
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)			
Channel				2360.0	2369.5	2379.0					
Frequency (MHz)				704	707.5	711					
10	QPSK	1	0	23.69	23.74	23.67			25.5	0	
10	QPSK	1	25	23.59	23.66	23.61					
10	QPSK	1	49	23.67	23.61	23.62					
10	QPSK	25	0	22.66	22.76	22.67			24.5	1	
10	QPSK	25	12	22.56	22.70	22.69					
10	QPSK	25	25	22.65	22.65	22.69					
10	QPSK	50	0	22.59	22.72	22.67			24.5	1	
10	16QAM	1	0	22.58	22.67	22.55					
10	16QAM	1	25	22.53	22.61	22.59					
10	16QAM	1	49	22.54	22.57	22.53			23.5	2	
10	16QAM	25	0	21.73	21.81	21.71					
10	16QAM	25	12	21.70	21.73	21.65					
10	16QAM	25	25	21.63	21.77	21.66			23.5	2	
10	16QAM	50	0	21.68	21.71	21.52					
10	64QAM	1	0	21.65	21.79	21.64					
10	64QAM	1	25	21.59	21.73	21.66			23.5	2	
10	64QAM	1	49	21.65	21.69	21.64					
10	64QAM	25	0	20.90	20.95	20.89					
10	64QAM	25	12	20.82	20.89	20.76			22.5	3	
10	64QAM	25	25	20.91	20.91	20.84					
10	64QAM	50	0	20.68	20.83	20.72					
10	256QAM	1	0	18.85	18.96	18.92			20.5	5	
10	256QAM	1	25	18.83	18.93	18.89					
10	256QAM	1	49	18.85	18.88	18.74					
10	256QAM	25	0	18.78	18.67	18.84			20.5	5	
10	256QAM	25	12	18.68	18.77	18.72					
10	256QAM	25	25	18.74	18.63	18.69					
10	256QAM	50	0	18.65	18.91	18.82					
Channel				2363.5	2369.5	2375.5					
Frequency (MHz)				701.5	707.5	713.5					
5	QPSK	1	0	23.62	23.67	23.58			25.5	0	
5	QPSK	1	12	23.67	23.58	23.56					
5	QPSK	1	24	23.67	23.55	23.62					
5	QPSK	12	0	22.55	22.67	22.54			24.5	1	
5	QPSK	12	7	22.51	22.64	22.59					
5	QPSK	12	13	22.51	22.62	22.62					
5	QPSK	25	0	22.55	22.67	22.53			24.5	1	
5	16QAM	1	0	22.57	22.55	22.58					
5	16QAM	1	12	22.51	22.55	22.59					
5	16QAM	1	24	22.59	22.54	22.59			24.5	1	
5	16QAM	12	0	21.65	21.74	21.63					
5	16QAM	12	7	21.61	21.63	21.59					
5	16QAM	12	13	21.63	21.66	21.58			23.5	2	
5	16QAM	25	0	21.53	21.58	21.51					
5	64QAM	1	0	21.54	21.71	21.58					
5	64QAM	1	12	21.55	21.54	21.64			23.5	2	
5	64QAM	1	24	21.51	21.61	21.55					
5	64QAM	12	0	20.77	20.90	20.83					
5	64QAM	12	7	20.69	20.79	20.65			22.5	3	
5	64QAM	12	13	20.67	20.85	20.72					
5	64QAM	25	0	20.56	20.80	20.60					
5	256QAM	1	0	18.71	18.90	18.73			20.5	5	
5	256QAM	1	12	18.74	18.82	18.61					
5	256QAM	1	24	18.73	18.77	18.65					
5	256QAM	12	0	18.64	18.78	18.77			20.5	5	
5	256QAM	12	7	18.59	18.67	18.63					
5	256QAM	12	13	18.62	18.74	18.55					
5	256QAM	25	0	18.79	18.86	18.74					
Channel				2366.5	2369.5	2378.5					
Frequency (MHz)				700.5	707.5	714.5					
3	QPSK	1	0	23.64	23.63	23.60			25.5	0	
3	QPSK	1	8	23.57	23.56	23.58					
3	QPSK	1	14	23.53	23.57	23.59					
3	QPSK	8	0	22.62	22.66	22.62			24.5	1	
3	QPSK	8	4	22.58	22.57	22.51					
3	QPSK	8	7	22.56	22.54	22.55					
3	QPSK	16	0	22.50	22.58	22.57			24.5	1	
3	16QAM	1	0	22.59	22.54	22.59					
3	16QAM	1	8	22.58	22.51	22.60					
3	16QAM	1	14	22.63	22.59	22.61			23.5	2	
3	16QAM	8	4	21.58	21.67	21.61					
3	16QAM	8	7	21.56	21.72	21.65					
3	16QAM	16	0	21.55	21.63	21.54			23.5	2	
3	64QAM	1	0	21.60	21.72	21.63					
3	64QAM	1	8	21.56	21.64	21.60					
3	64QAM	1	14	21.59	21.64	21.57			22.5	3	
3	64QAM	8	0	20.79	20.89	20.79					
3	64QAM	8	4	20.77	20.71	20.72					
3	64QAM	8	7	20.74	20.79	20.73			20.5	5	
3	256QAM	1	0	18.72	18.88	18.79					
3	256QAM	1	8	18.76	18.78	18.79					
3	256QAM	1	14	18.79	18.84	18.61			20.5	5	
3	256QAM	8	0	18.70	18.62	18.72					
3	256QAM	8	4	18.68	18.71	18.61					
3	256QAM	8	7	18.62	18.79	18.63			20.5	5	
3	256QAM	16	0	18.73	18.67	18.72					
Channel				2361.7	2369.5	2373.3					
Frequency (MHz)				699.7	707.5	716.3					
1.4	QPSK	1	0	23.64	23.65	23.58			25.5	0	
1.4	QPSK	1	3	23.52	23.51	23.55					
1.4	QPSK	1	5	23.58	23.70	23.65					
1.4	QPSK	3	0	23.55	23.63	23.59			24.5	1	
1.4	QPSK	3	1	23.59	23.58	23.59					
1.4	QPSK	3	3	23.62	23.62	23.64					
1.4	QPSK	8	0	22.04	22.72	22.61			24.5	1	
1.4	16QAM	1	0	22.62	22.68	22.59					
1.4	16QAM	1	3	22.64	22.51	22.67					
1.4	16QAM	1	5	22.54	22.60	22.53			23.5	2	
1.4	16QAM	3	0	22.84	22.67	22.61					
1.4	16QAM	3	1	22.51	22.67	22.60					
1.4	16QAM	3	3	22.56	22.52	22.59			22.5	2	
1.4	64QAM	8	0	21.66	21.75	21.68					
1.4	64QAM	1	0	21.59	21.69	21.62			23.5	2	
1.4	64QAM	1	3	21.59	21.67	21.52					
1.4	64QAM	1	5	21.84	21.58	21.62					
1.4	64QAM	3	0	21.55	21.71	21.60			22.5	3	
1.4	64QAM	3	1	21.50	21.68	21.63					
1.4	64QAM	3	3	21.53	21.58	21.53					
1.4	256QAM	8	0	20.74	20.82	20.66			20.5	5	
1.4	256QAM	1	0	18.75	18.87	18.67					
1.4	256QAM	1	3	18.77	18.67	18.79					
1.4	256QAM	1	5	18.79	18.74	18.61			20.5	5	
1.4	256QAM	3	0	18.70	18.73	18.74					
1.4	256QAM	3	1	18.65	18.67	18.60					
1.4	256QAM	3	3	18.66	18.75	18.59			20.5	5	
1.4	256QAM	5	0	18.79	18.78	18.75					

Band 17 Other PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up Intvl (min)	APRS (dB)	
Channel				2170.5	2170.5	2180.5			
Frequency (MHz)				709	710	711			
15	QPSK	1	0	23.57	23.70	23.59			
15	QPSK	1	25	23.54	23.59	23.51	25.5	0	
15	QPSK	1	49	23.55	23.59	23.51			
15	QPSK	25	0	22.60	22.66	22.58			
15	QPSK	25	12	22.53	22.59	22.55			
15	QPSK	25	25	22.53	22.58	22.56	24.5	1	
15	QPSK	50	0	22.57	22.61	22.54			
15	16QAM	1	0	22.50	22.56	22.59			
15	16QAM	1	25	22.57	22.53	22.51	24.5	1	
15	16QAM	1	49	22.53	22.59	22.52			
15	16QAM	25	0	21.81	21.71	21.58			
15	16QAM	25	12	21.81	21.58	21.56	23.5	2	
15	16QAM	25	25	21.81	21.72	21.52			
15	16QAM	50	0	21.57	21.60	21.58			
15	64QAM	1	0	21.50	21.74	21.63			
15	64QAM	1	25	21.58	21.59	21.63	23.5	2	
15	64QAM	1	49	21.54	21.66	21.60			
15	64QAM	25	0	20.86	20.87	20.85			
15	64QAM	25	12	20.71	20.81	20.89	22.5	3	
15	64QAM	25	25	20.71	20.78	20.76			
15	64QAM	50	0	20.53	20.73	20.63			
15	256QAM	1	0	18.72	18.90	18.81			
15	256QAM	1	25	18.73	18.78	18.74	20.5	5	
15	256QAM	1	49	18.78	18.84	18.83			
15	256QAM	25	0	18.69	18.76	18.73			
15	256QAM	25	12	18.57	18.67	18.63	20.5	5	
15	256QAM	25	25	18.65	18.72	18.55			
15	256QAM	50	0	18.72	18.87	18.71			
Channel				2170.5	2175.0	2180.5	Tune-up Intvl (min)	APRS (dB)	
Frequency (MHz)				709.5	710	711.5			
5	QPSK	1	0	23.51	23.65	23.54			
5	QPSK	1	12	23.53	23.55	23.57	25.5	0	
5	QPSK	1	24	23.54	23.64	23.58			
5	QPSK	12	0	22.72	22.83	22.67			
5	QPSK	12	7	22.52	22.74	22.69	24.5	1	
5	QPSK	12	13	22.58	22.72	22.59			
5	QPSK	25	0	22.63	22.72	22.54			
5	16QAM	1	0	22.67	22.60	22.56			
5	16QAM	1	12	22.55	22.66	22.57	24.5	1	
5	16QAM	1	24	22.51	22.59	22.58			
5	16QAM	12	0	21.75	21.84	21.73			
5	16QAM	12	7	21.72	21.67	21.61	23.5	2	
5	16QAM	12	13	21.61	21.69	21.58			
5	16QAM	25	0	21.58	21.69	21.56			
5	64QAM	1	0	21.59	21.72	21.67	23.5	2	
5	64QAM	1	12	21.54	21.60	21.50			
5	64QAM	1	24	21.51	21.61	21.52			
5	64QAM	12	0	20.92	20.90	20.85			
5	64QAM	12	7	20.83	20.76	20.65	22.5	3	
5	64QAM	12	13	20.73	20.75	20.74			
5	64QAM	25	0	20.65	20.69	20.59			
5	256QAM	1	0	18.72	18.90	18.81			
5	256QAM	1	12	18.72	18.85	18.77	20.5	5	
5	256QAM	1	24	18.79	18.81	18.69			
5	256QAM	12	0	18.75	18.72	18.69			
5	256QAM	12	7	18.60	18.70	18.61	20.5	5	
5	256QAM	12	13	18.66	18.73	18.57			
5	256QAM	25	0	18.68	18.93	18.69			

DL CA Power

2CA DL

CA List	PCC										SCC				Power	
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Configuratio n		Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
CA_2A-2A	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 2	5M	1987.5	1175		23.54	23.66
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 2	5M	1987.5	1175		23.35	23.43
CA_2A-26A	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 26	15M	876.5	8865		23.52	23.66
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 26	15M	876.5	8865		23.35	23.43
	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 2	20M	1960	900		24.46	24.53
	Band 26	Ant1	15M	831.5	26865	QPSK	1	0		Band 2	20M	1960	900		23.68	23.74
CA_2A-38A	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 38	20M	2595	38000	4x4MIMO	23.54	23.66
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 38	20M	2595	38000	4x4MIMO	23.39	23.43
	Band 38	Ant1	20M	2595	38000	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		23.81	23.84
	Band 38	Ant2	20M	2595	38000	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		25.32	25.42
	Band 38	Ant3	20M	2595	38000	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		23.13	23.19
	Band 38	Ant4	20M	2595	38000	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		25.21	25.35
CA_2C	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 2	20M	1979.8	1098		23.57	23.66
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 2	20M	1979.8	1098		23.35	23.43
CA_4A-4A	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.96	23.01
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	24.62	24.67
	Band 4	Ant3	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.31	22.39
	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	24.34	24.44
CA_7A-26A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		23.35	23.45
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		24.73	24.80
	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		22.62	22.70
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		24.74	24.80
	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	24.50	24.53
	Band 26	Ant1	15M	831.5	26865	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	23.67	23.74
CA_12A-66A	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	24.47	24.50
	Band 12	Ant1	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	23.44	23.54
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		22.23	22.27
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		23.67	23.73
	Band 66	Ant3	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		21.44	21.53
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		23.29	23.43
CA_26A-38A	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 38	20M	2595	38000	4x4MIMO	24.45	24.53
	Band 26	Ant1	15M	831.5	26865	QPSK	1	0		Band 38	20M	2595	38000	4x4MIMO	23.62	23.74
CA_26A-41A	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	24.48	24.53
	Band 26	Ant1	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	23.63	23.74
CA_38C	Band 38	Ant1	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO	23.72	23.84
	Band 38	Ant2	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO	25.30	25.42
	Band 38	Ant3	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO	23.12	23.19
	Band 38	Ant4	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO	25.30	25.35
CA_41C	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	23.66	23.70
	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	25.33	25.41
	Band 41	Ant3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	23.11	23.22
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	25.05	25.27
CA_42C	Band 42	Ant1	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	23.21	23.32
	Band 42	Ant5	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	24.86	24.97
	Band 42	Ant6	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	24.60	24.69
	Band 42	Ant7	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	23.40	23.48
CA_66B	Band 66	Ant1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.12	22.27
	Band 66	Ant2	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.66	23.73
	Band 66	Ant3	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	21.42	21.53
	Band 66	Ant4	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.39	23.43
CA_66C	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	22.19	22.27
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	23.60	23.73
	Band 66	Ant3	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	21.41	21.53
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	23.40	23.43

3CA DL

3CA List	PCC										SCC1					SCC2				DL Antenna Configuration	Power	
	LTE	BW	BW	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	Ant	(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	Ant2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		23.51	23.66	
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		23.36	23.43	
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900		22.95	23.01	
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900		24.57	24.67	
	Band 4	Ant3	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900		22.32	22.39	
	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900		24.41	24.44	
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175	4x4MIMO	24.55	24.67	
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175	4x4MIMO	23.65	23.75	
CA_2A-4A-7A	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.61	23.66	
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.37	23.43	
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		22.94	23.01	
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		24.58	24.67	
	Band 4	Ant3	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		22.31	22.39	
	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		24.30	24.44	
	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	23.58	23.66	
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	23.40	23.43	
CA_2A-5A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		24.61	24.67	
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		23.66	23.75	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		Band 5	10M	881.5	2525		23.32	23.45	
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		Band 5	10M	881.5	2525		24.69	24.80	
	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		Band 5	10M	881.5	2525		22.64	22.70	
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		Band 5	10M	881.5	2525		24.64	24.80	
	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	23.50	23.66	
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	23.36	23.43	
CA_2A-5A-66A	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900		24.59	24.67	
	Band 66	Ant1	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		Band 5	10M	881.5	2525		22.19	22.27	
	Band 66	Ant2	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		Band 5	10M	881.5	2525		23.61	23.73	
	Band 66	Ant3	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		Band 5	10M	881.5	2525		21.45	21.53	
	Band 66	Ant4	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		Band 5	10M	881.5	2525		23.36	23.43	
	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 7	5M	2687.5	3425	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.59	23.66	
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 7	5M	2687.5	3425	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.31	23.43	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1960	900		23.38	23.45	
CA_2A-7A-7A	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1960	900		24.75	24.80	
	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1960	900		22.63	22.70	
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1960	900		24.68	24.80	
	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.60	23.66	
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.29	23.43	
	Band 66	Ant1	20M	1745	132322	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		22.20	22.27	
	Band 66	Ant2	20M	1745	132322	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		23.64	23.73	
	Band 66	Ant3	20M	1745	132322	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		21.49	21.53	
CA_2A-7C	Band 2	Ant2	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900		23.33	23.43	
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.56	23.66	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1960	900		23.37	23.45	
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1960	900		24.69	24.80	
	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1960	900		22.66	22.70	
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1960	900		24.61	24.80	
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.88	23.01	
	Band 4	Ant2	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	24.60	24.67	
CA_4A-7C	Band 4	Ant3	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.32	22.39	
	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	24.35	24.44	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175		23.40	23.45	
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175		24.77	24.80	
	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175		22.63	22.70	
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175		24.70	24.80	
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	24.63	24.67	
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.69	23.75	
CA_5A-7A-7A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 5	10M	881.5	2525		23.37	23.45	
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 5	10M	881.5	2525		24.69	24.80	
	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 5	10M	881.5	2525		22.60	22.70	
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 5	10M	881.5	2525		24.72	24.80	
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	24.52	24.67	
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.66	23.75	

Default Uplink CA Power

CA_7C Ant1								
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	22.95	24.00
21100	21298	QPSK	1	99	1	0	23.06	24.00
21350	21152	QPSK	1	0	1	99	23.02	24.00

CA_38C Ant1								
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	23.29	25.00
37901	38099	QPSK	1	99	1	0	23.31	25.00
38150	37952	QPSK	1	0	1	99	23.12	25.00

CA_7C Ant2								
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	24.18	25.50
21100	21298	QPSK	1	99	1	0	24.22	25.50
21350	21152	QPSK	1	0	1	99	24.07	25.50

CA_38C Ant2								
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	24.84	25.50
37901	38099	QPSK	1	99	1	0	24.94	25.50
38150	37952	QPSK	1	0	1	99	24.90	25.50

CA_7C Ant3								
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	22.19	24.00
21100	21298	QPSK	1	99	1	0	22.30	24.00
21350	21152	QPSK	1	0	1	99	22.25	24.00

CA_38C Ant3								
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	22.46	24.50
37901	38099	QPSK	1	99	1	0	22.62	24.50
38150	37952	QPSK	1	0	1	99	22.60	24.50

CA_7C Ant4								
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	24.31	25.50
21100	21298	QPSK	1	99	1	0	24.37	25.50
21350	21152	QPSK	1	0	1	99	24.18	25.50

CA_38C Ant4								
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	24.76	25.70
37901	38099	QPSK	1	99	1	0	24.83	25.70
38150	37952	QPSK	1	0	1	99	24.69	25.70

Reduced Uplink CA Power

CA_7C Ant1 DSI0&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	15.51	16.50
21100	21298	QPSK	1	99	1	0	15.55	16.50
21350	21152	QPSK	1	0	1	99	15.51	16.50

CA_7C Ant1 DSI1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	19.97	21.00
21100	21298	QPSK	1	99	1	0	20.03	21.00
21350	21152	QPSK	1	0	1	99	19.96	21.00

CA_7C Ant2 DSI1&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	20.15	21.50
21100	21298	QPSK	1	99	1	0	20.29	21.50
21350	21152	QPSK	1	0	1	99	20.12	21.50

CA_7C Ant2 DSI3								
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	23.23	24.50
21100	21298	QPSK	1	99	1	0	23.31	24.50
21350	21152	QPSK	1	0	1	99	23.21	24.50

CA_7C Ant3 DSI0&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	17.02	19.00
21100	21298	QPSK	1	99	1	0	17.41	19.00
21350	21152	QPSK	1	0	1	99	17.32	19.00

CA_7C Ant3 DSI1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.67	23.50
21100	21298	QPSK	1	99	1	0	21.83	23.50
21350	21152	QPSK	1	0	1	99	21.76	23.50

CA_7C Ant4 DSI0&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	18.29	19.50
21100	21298	QPSK	1	99	1	0	18.40	19.50
21350	21152	QPSK	1	0	1	99	18.33	19.50

CA_7C Ant4 DSI1&3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	20.77	22.00
21100	21298	QPSK	1	99	1	0	20.85	22.00
21350	21152	QPSK	1	0	1	99	20.70	22.00

CA_38C Ant1 DSI0&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	19.28	21.00
37901	38099	QPSK	1	99	1	0	19.34	21.00
38150	37952	QPSK	1	0	1	99	19.02	21.00

CA_38C Ant1 DSI1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.76	23.50
37901	38099	QPSK	1	99	1	0	21.80	23.50
38150	37952	QPSK	1	0	1	99	21.73	23.50

CA_38C Ant2 DSI1&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	22.82	23.50
37901	38099	QPSK	1	99	1	0	22.91	23.50
38150	37952	QPSK	1	0	1	99	22.76	23.50

CA_38C Ant3 DSI0&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	20.49	22.50
37901	38099	QPSK	1	99	1	0	20.74	22.50
38150	37952	QPSK	1	0	1	99	20.68	22.50

CA_38C Ant4 DSI0&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	20.79	21.70
37901	38099	QPSK	1	99	1	0	20.82	21.70
38150	37952	QPSK	1	0	1	99	20.79	21.70

CA_38C Ant4 DSI1&3								
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	23.29	24.20
37901	38099	QPSK	1	99	1	0	23.35	24.20
38150	37952	QPSK	1	0	1	99	23.21	24.20

Default Power for FR1 Main PA

n5 Main PA Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166800	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)
Channel				834	836.5	839	25.5	0.0
Frequency (MHz)				24.48	24.57	24.51		
20	PI/2 BPSK	1	1	24.41	24.51	24.38		
20	PI/2 BPSK	1	53	24.33	24.46	24.39		
20	PI/2 BPSK	1	104	24.16	24.21	24.15	25.0	0.5
20	PI/2 BPSK	50	0	24.54	24.59	24.51	25.5	0.0
20	PI/2 BPSK	50	28	24.12	24.21	24.17	25.0	0.5
20	PI/2 BPSK	50	56	24.13	24.18	24.10		
20	PI/2 BPSK	100	0	24.52	24.63	24.48	25.5	0.0
20	QPSK	1	1	24.43	24.53	24.41		
20	QPSK	1	53	24.37	24.46	24.33		
20	QPSK	1	104	23.65	23.71	23.61		
20	QPSK	50	0	24.56	24.61	24.54	24.5	1.0
20	QPSK	50	28	23.49	23.62	23.53	25.5	0.0
20	QPSK	50	56	23.60	23.66	23.52	24.5	1.0
20	QPSK	100	0	23.28	23.34	23.31		
20	16QAM	1	1	21.84	21.93	21.83	24.5	1.0
20	64QAM	1	1	20.66	20.69	20.61	23.0	2.5
20	256QAM	1	1	166300	167300	168300	21.0	4.5
Channel				831.5	836.5	841.5	25.5	0.0
Frequency (MHz)				24.48	24.53	24.44		
15	QPSK	1	1	165800	167300	168800	25.5	0.0
Channel				829	836.5	844		
Frequency (MHz)				24.55	24.59	24.40	25.5	0.0
10	QPSK	1	1	165300	167300	169300	25.5	0.0
Channel				826.5	836.5	846.5		
Frequency (MHz)				24.50	24.57	24.49	25.5	0.0
5	QPSK	1	1					



n5 Main PA Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 168000	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167600	Tune-up limit (dBm)	MPR (dB)
Channel				834	836.5	839		
Frequency (MHz)								
20	PV2 BPSK	1	1	23.59	23.68	23.55	25.5	0.0
20	PV2 BPSK	1	53	23.61	23.66	23.55		
20	PV2 BPSK	1	104	23.56	23.61	23.57	25.0	0.5
20	PV2 BPSK	50	0	23.23	23.31	23.22		
20	PV2 BPSK	50	28	23.58	23.65	23.58	25.5	0.0
20	PV2 BPSK	50	56	23.20	23.27	23.14	25.0	0.5
20	PV2 BPSK	100	0	23.20	23.33	23.25	25.5	0.0
20	QPSK	1	1	23.68	23.73	23.64		
20	QPSK	1	53	23.53	23.65	23.55	25.0	1.0
20	QPSK	1	104	23.60	23.68	23.54		
20	QPSK	50	0	22.69	22.83	22.75	24.5	1.0
20	QPSK	50	28	23.56	23.66	23.60	25.5	0.0
20	QPSK	50	56	22.64	22.77	22.70	24.5	1.0
20	QPSK	100	0	22.76	22.91	22.78	24.5	1.0
20	16QAM	1	1	22.57	22.84	22.52		
20	64QAM	1	1	21.15	21.29	21.22	23.0	2.5
20	256QAM	1	1	19.58	19.72	19.62	21.0	4.5
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				16812	16815	16815		
15	QPSK	1	1	23.51	23.62	23.55	25.5	0.0
Channel				165800	167300	166800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				809	836.5	844		
10	QPSK	1	1	23.56	23.63	23.58	25.5	0.0
Channel				165300	167300	166300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				804.5	834.5	844.5		
5	QPSK	1	1	23.52	23.65	23.63	25.5	0.0

n7 Main PA Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 505000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 509000	Tune-up limit (dBm)	MPR (dB)
Channel				2625	2635	2645		
Frequency (MHz)								
50	PV2 BPSK	1	1	23.19	23.32	23.15	24.0	0.0
50	PV2 BPSK	1	135	23.14	23.20	23.17		
50	PV2 BPSK	1	268	23.16	23.19	23.06	23.5	0.5
50	PV2 BPSK	135	0	22.82	22.98	22.88		
50	PV2 BPSK	135	68	23.23	23.29	23.15	24.0	0.0
50	PV2 BPSK	135	135	22.83	22.89	22.87	23.5	0.5
50	PV2 BPSK	270	0	22.84	22.95	22.84	24.0	0.0
50	QPSK	1	1	23.27	23.33	23.25		
50	QPSK	1	135	23.08	23.19	23.13	23.0	1.0
50	QPSK	1	268	23.07	23.16	23.13		
50	QPSK	135	0	22.37	22.38	22.38	23.0	1.0
50	QPSK	135	68	23.17	23.26	23.21	24.0	0.0
50	QPSK	135	135	22.24	22.31	22.25	23.0	1.0
50	QPSK	270	0	22.28	22.40	22.31	23.0	1.0
50	16QAM	1	1	22.02	22.08	22.00		
50	64QAM	1	1	20.53	20.59	20.48	21.5	2.5
50	256QAM	1	1	19.27	19.34	19.26	19.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2620	2633	2650		
40	QPSK	1	1	23.20	23.18	23.15	24.0	0.0
Channel				501000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2615	2635	2655		
30	QPSK	1	1	23.17	23.26	23.10	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2612.5	2635	2657.5		
25	QPSK	1	1	23.17	23.19	23.10	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2610	2635	2660		
20	QPSK	1	1	23.16	23.26	23.16	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2607.5	2635	2662.5		
15	QPSK	1	1	23.15	23.30	23.11	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2605	2635	2665		
10	QPSK	1	1	23.22	23.22	23.21	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2602.5	2635	2667.5		
5	QPSK	1	1	23.17	23.28	23.10	24.0	0.0

n66 Main PA Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346500	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 351500	Tune-up limit (dBm)	MPR (dB)
Channel				1732.5	1745	1757.5		
Frequency (MHz)								
45	PV2 BPSK	1	1	22.19	22.24	22.15	24.0	0.0
45	PV2 BPSK	1	120	22.10	22.18	22.08		
45	PV2 BPSK	1	243	22.11	22.13	22.05	23.5	0.5
45	PV2 BPSK	120	0	21.78	21.86	21.79		
45	PV2 BPSK	120	60	22.17	22.24	22.08	24.0	0.0
45	PV2 BPSK	120	120	21.74	21.79	21.84	23.5	0.5
45	PV2 BPSK	240	0	21.78	21.80	21.76	24.0	0.0
45	QPSK	1	1	22.24	22.30	22.20		
45	QPSK	1	120	22.05	22.14	22.10	23.0	1.0
45	QPSK	1	243	22.13	22.18	22.07		
45	QPSK	120	0	21.27	21.29	21.24	23.0	1.0
45	QPSK	120	60	22.17	22.22	22.19	24.0	0.0
45	QPSK	120	120	21.08	21.19	21.13	23.0	1.0
45	QPSK	240	0	21.14	21.21	21.16	23.0	1.0
45	16QAM	1	1	21.09	21.18	21.13		
45	64QAM	1	1	19.73	19.81	19.61	21.5	2.5
45	256QAM	1	1	18.20	18.27	18.20	19.5	4.5
Channel				348000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1760		
40	QPSK	1	1	22.09	22.11	22.08	24.5	0.0
Channel				345500	349000	352500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	22.10	22.21	22.17	24.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.19	22.25	22.14	24.0	0.0
Channel				344800	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	22.12	22.19	22.17	24.0	0.0
Channel				344200	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.14	22.21	22.13	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.09	22.19	22.06	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.13	22.19	22.06	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.15	22.22	22.10	24.0	0.0

n38 Main PA Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	23.54	23.85	23.77	25.0	0.0
40	PI2 BPSK	1	53	23.68	23.83	23.70		
40	PI2 BPSK	1	104	23.55	23.71	23.56		
40	PI2 BPSK	50	0	23.37	23.42	23.27	24.5	0.5
40	PI2 BPSK	50	28	23.81	23.83	23.74	25.0	0.0
40	PI2 BPSK	50	56	23.27	23.39	23.26	24.5	0.5
40	PI2 BPSK	100	0	23.29	23.39	23.37		
40	QPSK	1	1	23.80	23.91	23.81	25.0	0.0
40	QPSK	1	53	23.78	23.87	23.80		
40	QPSK	1	104	23.80	23.75	23.62		
40	QPSK	50	0	22.74	22.94	22.83	24.0	1.0
40	QPSK	50	28	23.72	23.87	23.76	25.0	0.0
40	QPSK	50	56	22.79	22.91	22.86	24.0	1.0
40	QPSK	100	0	22.89	23.00	22.92	24.0	1.0
40	8QAM	1	1	22.72	22.90	22.86		
40	8QAM	1	1	21.15	21.30	21.24	22.5	2.5
40	25QAM	1	1	19.34	19.41	19.43	20.5	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	517002	518000	520998	tune-up limit (dBm)	MPR
				2562.02	2595	2604.98	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	518504	519000	521496	tune-up limit (dBm)	MPR
				2562.52	2595	2607.48	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	519500	519000	522000	tune-up limit (dBm)	MPR
				2580	2595	2610	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	519502	519000	522498	tune-up limit (dBm)	MPR
				2577.51	2595	2612.49	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	519504	519000	522996	tune-up limit (dBm)	MPR
				2575.02	2595	2614.98	25.0	0.0

n41 Main PA Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	2546.01	2592.99	2540	25.0	0.0
100	PI2 BPSK	1	137	23.78	23.87	23.81		
100	PI2 BPSK	1	271	23.60	23.75	23.64		
100	PI2 BPSK	135	0	23.43	23.47	23.37	24.5	0.5
100	PI2 BPSK	135	69	23.89	23.93	23.80	25.0	0.0
100	PI2 BPSK	135	138	23.34	23.46	23.38	24.5	0.5
100	PI2 BPSK	270	0	23.40	23.51	23.45		
100	QPSK	1	1	23.93	23.98	23.89	25.0	0.0
100	QPSK	1	137	23.84	23.93	23.87		
100	QPSK	1	271	23.75	23.86	23.76		
100	QPSK	135	0	22.97	22.98	22.87	24.0	1.0
100	QPSK	135	69	23.78	23.92	23.85	25.0	0.0
100	QPSK	135	138	22.88	22.97	22.90	24.0	1.0
100	QPSK	270	0	22.94	23.07	23.01	24.0	1.0
100	8QAM	1	1	22.80	22.95	22.91		
100	8QAM	1	1	21.28	21.34	21.30	22.5	2.5
100	25QAM	1	1	19.43	19.56	19.48	20.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	508200	518598	528998	tune-up limit (dBm)	MPR
				2541	2592.99	2544.99	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	507204	518598	528998	tune-up limit (dBm)	MPR
				2536.02	2592.99	2540.99	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	506200	518598	531996	tune-up limit (dBm)	MPR
				2531.01	2592.99	2535	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	505200	518598	531996	tune-up limit (dBm)	MPR
				2526	2592.99	2530.99	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	504204	518598	532998	tune-up limit (dBm)	MPR
				2521.02	2592.99	2524.98	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	503202	518598	534000	tune-up limit (dBm)	MPR
				2516.01	2592.99	2570	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	502200	518598	534996	tune-up limit (dBm)	MPR
				2511	2592.99	2574.99	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	501204	518598	535998	tune-up limit (dBm)	MPR
				2506.02	2592.99	2569.99	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	500202	518598	537000	tune-up limit (dBm)	MPR
				2501.01	2592.99	2565	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	499200	518598	538000	tune-up limit (dBm)	MPR
				2496	2592.99	2560	25.0	0.0

Part270 n77 Main PA Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3840	3930	22.0	0.0
100	PI2 BPSK	1	137	20.48	20.48	20.45		
100	PI2 BPSK	1	271	20.33	20.47	20.40		
100	PI2 BPSK	135	0	20.40	20.53	20.29	22.0	0.0
100	PI2 BPSK	135	69	20.54	20.66	20.59	22.0	0.0
100	PI2 BPSK	135	138	20.46	20.45	20.30	22.0	0.0
100	PI2 BPSK	270	0	20.45	20.47	20.40		
100	QPSK	1	1	20.56	20.67	20.54	22.0	0.0
100	QPSK	1	137	20.49	20.54	20.45		
100	QPSK	1	271	20.57	20.58	20.58		
100	QPSK	135	0	20.43	20.51	20.43	22.0	0.0
100	QPSK	135	69	20.49	20.63	20.55	22.0	0.0
100	QPSK	135	138	20.38	20.44	20.50	22.0	0.0
100	QPSK	270	0	20.50	20.56	20.46	22.0	0.0
100	16QAM	1	1	20.28	20.26	20.27		
100	8QAM	1	1	20.04	20.01	20.01	22.0	0.0
100	25QAM	1	1	19.87	19.07	19.80	20.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.48	20.55	20.46	tune-up limit (dBm)	MPR (dB)
				648334	659000	663668	22.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.42	20.52	20.43	tune-up limit (dBm)	MPR (dB)
				647668	659000	663334	22.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.48	20.58	20.51	tune-up limit (dBm)	MPR (dB)
				647002	659000	663000	22.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.52	20.53	20.44	tune-up limit (dBm)	MPR (dB)
				646334	659000	663668	22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.48	20.59	20.44	tune-up limit (dBm)	MPR (dB)
				645668	659000	664000	22.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.42	20.64	20.50	tune-up limit (dBm)	MPR (dB)
				645002	659000	664334	22.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.42	20.57	20.41	tune-up limit (dBm)	MPR (dB)
				644334	659000	664668	22.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	20.42	20.59	20.43	tune-up limit (dBm)	MPR (dB)
				643668	659000	664998	22.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.42	20.63	20.46	tune-up limit (dBm)	MPR (dB)
				643002	659000	665334	22.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.51	20.54	20.42	tune-up limit (dBm)	MPR (dB)
				642334	659000	665668	22.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.42	20.60	20.41	tune-up limit (dBm)	MPR (dB)
				641668	659000	666000	22.0	0.0

Part27O n77 PC2 Main PA Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	23.45	23.01	23.53	25.0	0.0
100	P12 BPSK	1	137	23.44	23.49	23.41		
100	P12 BPSK	1	271	23.34	23.42	23.26		
100	P12 BPSK	135	0	22.96	23.08	22.96	24.5	0.5
100	P12 BPSK	135	69	23.33	23.46	23.45	25.0	0.0
100	P12 BPSK	135	138	22.84	23.03	22.87	24.5	0.5
100	P12 BPSK	270	0	23.02	23.11	23.01	25.0	0.0
100	QPSK	1	1	23.59	23.05	23.56		
100	QPSK	1	137	23.45	23.49	23.44		
100	QPSK	1	271	23.45	23.33	23.42	24.0	1.0
100	QPSK	135	0	22.40	22.50	22.43		
100	QPSK	135	69	23.47	23.59	23.36		
100	QPSK	135	138	22.36	22.46	22.41	24.0	1.0
100	QPSK	270	0	22.50	22.53	22.45	24.0	1.0
100	16QAM	1	1	22.15	22.18	22.11	24.0	1.0
100	64QAM	1	1	20.54	20.52	20.56	22.5	2.5
100	256QAM	1	1	18.66	18.83	18.84	20.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	649668	650000	652334	turn-up limit (dB)	MPR
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3840	3940.02	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.51	23.54	23.48	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.55	23.57	23.42	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	649668	650000	653334	turn-up limit (dB)	MPR
Channel								
Frequency (MHz)								
40	QPSK	1	1	3720.02	3840	3950.02	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.54	23.54	23.43	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	647000	650000	654000	turn-up limit (dB)	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	3712.5	3840	3967.5	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.46	23.50	23.48	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	647234	650000	656000	turn-up limit (dB)	MPR
Channel								
Frequency (MHz)								
5	QPSK	1	1	3710.01	3840	3970.02	25.0	0.0
Channel								
Frequency (MHz)								
0	QPSK	1	1	23.44	23.53	23.49	25.0	0.0
Channel								
Frequency (MHz)								
0	QPSK	1	1	647168	650000	654834	turn-up limit (dB)	MPR
Channel								
Frequency (MHz)								
0	QPSK	1	1	3707.52	3840	3972.51	25.0	0.0
Channel								
Frequency (MHz)								
0	QPSK	1	1	23.56	23.52	23.43	25.0	0.0
Channel								
Frequency (MHz)								
0	QPSK	1	1	647000	650000	655000	turn-up limit (dB)	MPR
Channel								
Frequency (MHz)								
0	QPSK	1	1	3705	3840	3975	25.0	0.0

Part27Q n77 Main PA Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1		3000.01		22.0	0.0
100	P12 BPSK	1	137		20.73			
100	P12 BPSK	1	271		20.59			
100	P12 BPSK	135	0		20.68		22.0	0.0
100	P12 BPSK	135	69		20.81		22.0	0.0
100	P12 BPSK	135	138		20.65		22.0	0.0
100	P12 BPSK	270	0		20.63		22.0	0.0
100	QPSK	1	1		20.86			
100	QPSK	1	137		20.69			
100	QPSK	1	271		20.78		22.0	0.0
100	QPSK	135	0		20.64			
100	QPSK	135	69		20.80			
100	QPSK	135	138		20.63		22.0	0.0
100	QPSK	270	0		20.70		22.0	0.0
100	16QAM	1	1		20.49		22.0	0.0
100	64QAM	1	1		20.23		22.0	0.0
100	256QAM	1	1		18.21		20.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	turn-up limit (dB)	MPR
Channel								
Frequency (MHz)								
80	QPSK	1	1	3495	3500.01	3505.02	22.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	632068	633334	634600	turn-up limit (dB)	MPR
Channel								
Frequency (MHz)								
60	QPSK	1	1	3490.02	3500.01	3510	22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.74	20.74	20.73	22.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	3485.01	3500.01	3515.01	22.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	632000	633334	634668	turn-up limit (dB)	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	3480	3500.01	3520.02	22.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	631668	633334	635000	turn-up limit (dB)	MPR
Channel								
Frequency (MHz)								
0	QPSK	1	1	3475.02	3500.01	3525	22.0	0.0
Channel								
Frequency (MHz)								
0	QPSK	1	1	20.76	20.73	20.65	22.0	0.0
Channel								
Frequency (MHz)								
0	QPSK	1	1	631334	633334	635334	turn-up limit (dB)	MPR
Channel								
Frequency (MHz)								
0	QPSK	1	1	3470.01	3500.01	3530.01	22.0	0.0
Channel								
Frequency (MHz)								
0	QPSK	1	1	20.80	20.82	20.71	22.0	0.0
Channel								
Frequency (MHz)								
0	QPSK	1	1	631000	633334	635668	turn-up limit (dB)	MPR
Channel								
Frequency (MHz)								
0	QPSK	1	1	3465.01	3500.01	3537.51	22.0	0.0
Channel								
Frequency (MHz)								
0	QPSK	1	1	20.75	20.76	20.68	22.0	0.0
Channel								
Frequency (MHz)								
0	QPSK	1	1	630668	633334	635000	turn-up limit (dB)	MPR</

Part270 n78 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	Pi/2 BPSK	1	1		22.15		23.0	0.0	
100	Pi/2 BPSK	1	137		22.06				
100	Pi/2 BPSK	1	271		22.03				
100	Pi/2 BPSK	135	0		21.95		23.0	0.0	
100	Pi/2 BPSK	135	69		22.19		23.0	0.0	
100	Pi/2 BPSK	135	138		21.97		23.0	0.0	
100	Pi/2 BPSK	270	0		22.03		23.0	0.0	
100	QPSK	1	1		22.22		23.0	0.0	
100	QPSK	1	137		22.05				
100	QPSK	1	271		22.03				
100	QPSK	135	0		22.07		23.0	0.0	
100	QPSK	135	69		22.13		23.0	0.0	
100	QPSK	135	138		21.99		23.0	0.0	
100	QPSK	270	0		22.10		23.0	0.0	
100	16QAM	1	1		22.00		23.0	0.0	
100	64QAM	1	1		21.99		23.0	0.0	
100	256QAM	1	1		20.57		21.5	1.5	
Channel				649668	650000	650334	tune-up limit	MPR	
Frequency (MHz)				3742.02	3750	3758.01	(dB)		
90	QPSK	1	1		22.08	22.16	22.05	23.0	0.0
Channel				649334	650000	650668	tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dB)		
80	QPSK	1	1		22.09	22.15	21.99	23.0	0.0
Channel				649000	650000	651000	tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dB)		
70	QPSK	1	1		22.10	22.09	21.99	23.0	0.0
Channel				648668	650000	651334	tune-up limit	MPR	
Frequency (MHz)				3733.02	3750	3767.01	(dB)		
60	QPSK	1	1		22.04	22.15	22.02	23.0	0.0
Channel				648334	650000	651668	tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dB)		
50	QPSK	1	1		22.04	22.19	22.07	23.0	0.0
Channel				648000	650000	652000	tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dB)		
40	QPSK	1	1		22.04	22.16	22.00	23.0	0.0
Channel				647668	650000	652334	tune-up limit	MPR	
Frequency (MHz)				3713.02	3750	3783.01	(dB)		
30	QPSK	1	1		22.14	22.08	21.97	23.0	0.0
Channel				647000	650000	652500	tune-up limit	MPR	
Frequency (MHz)				3712.5	3750	3787.5	(dB)		
25	QPSK	1	1		22.06	22.11	22.04	23.0	0.0
Channel				647334	650000	652668	tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dB)		
20	QPSK	1	1		22.06	22.12	22.05	23.0	0.0
Channel				647168	650000	652834	tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dB)		
15	QPSK	1	1		22.04	22.16	22.03	23.0	0.0
Channel				647000	650000	653000	tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dB)		
10	QPSK	1	1		22.08	22.08	21.98	23.0	0.0

Part270 n78 PC2 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	Pi/2 BPSK	1	1		23.07		26.0	0.0	
100	Pi/2 BPSK	1	137		23.02				
100	Pi/2 BPSK	1	271		24.96				
100	Pi/2 BPSK	135	0		24.70		25.5	0.5	
100	Pi/2 BPSK	135	69		24.99		26.0	0.0	
100	Pi/2 BPSK	135	138		24.50		25.5	0.5	
100	Pi/2 BPSK	270	0		24.54				
100	QPSK	1	1		25.11		26.0	0.0	
100	QPSK	1	137		25.01				
100	QPSK	1	271		25.04				
100	QPSK	135	0		24.02		25.0	1.0	
100	QPSK	135	69		25.09		26.0	0.0	
100	QPSK	135	138		24.05		25.0	1.0	
100	QPSK	270	0		23.99		25.0	1.0	
100	16QAM	1	1		24.07		25.0	1.0	
100	64QAM	1	1		22.20		23.5	2.5	
100	256QAM	1	1		20.88		21.5	4.5	
Channel				649668	650000	650334	tune-up limit	MPR	
Frequency (MHz)				3743.02	3750	3753.01	(dB)		
90	QPSK	1	1		25.01	24.98	23.00	23.0	0.0
Channel				649334	650000	650668	tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dB)		
80	QPSK	1	1		25.04	24.99	24.90	26.0	0.0
Channel				649000	650000	651000	tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dB)		
70	QPSK	1	1		24.98	25.03	24.98	26.0	0.0
Channel				648668	650000	651334	tune-up limit	MPR	
Frequency (MHz)				3733.02	3750	3767.01	(dB)		
60	QPSK	1	1		24.93	24.98	24.95	26.0	0.0
Channel				648334	650000	651668	tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dB)		
50	QPSK	1	1		25.03	24.98	24.93	26.0	0.0
Channel				648000	650000	652000	tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dB)		
40	QPSK	1	1		24.94	25.05	24.94	26.0	0.0
Channel				647668	650000	652334	tune-up limit	MPR	
Frequency (MHz)				3713.02	3750	3783.01	(dB)		
30	QPSK	1	1		24.97	25.03	24.98	26.0	0.0
Channel				647000	650000	652500	tune-up limit	MPR	
Frequency (MHz)				3712.5	3750	3787.5	(dB)		
25	QPSK	1	1		24.94	24.99	24.99	26.0	0.0
Channel				647334	650000	652668	tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dB)		
20	QPSK	1	1		24.94	24.98	24.88	26.0	0.0
Channel				647168	650000	652834	tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dB)		
15	QPSK	1	1		25.02	24.99	24.96	26.0	0.0
Channel				647000	650000	653000	tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dB)		
10	QPSK	1	1		25.02	25.05	24.94	26.0	0.0

Part27Q n78 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					3500.01				
Frequency (MHz)					22.25				
100	Pi/2 BPSK	1	1		22.21		23.0	0.0	
100	Pi/2 BPSK	1	137		22.27				
100	Pi/2 BPSK	1	271		22.17				
100	Pi/2 BPSK	135	0		22.09		23.0	0.0	
100	Pi/2 BPSK	135	69		22.27		23.0	0.0	
100	Pi/2 BPSK	135	138		22.10		23.0	0.0	
100	Pi/2 BPSK	270	0		22.09		23.0	0.0	
100	QPSK	1	1		22.30				
100	QPSK	1	137		22.19		23.0	0.0	
100	QPSK	1	271		22.17				
100	QPSK	135	0		22.16		23.0	0.0	
100	QPSK	135	69		22.23		23.0	0.0	
100	QPSK	135	138		22.07		23.0	0.0	
100	QPSK	270	0		22.19		23.0	0.0	
100	16QAM	1	1		22.08		23.0	0.0	
100	64QAM	1	1		21.65		23.0	0.0	
100	256QAM	1	1		20.68		21.5	1.5	
Channel					633000	633334	633668	tune-up limit (dB)	MPR
Frequency (MHz)					3486	3500.01	3503.02		
90	QPSK	1	1		22.08	22.17	22.20	23.0	0.0
Channel					632668	633334	634000	tune-up limit (dBm)	MPR
Frequency (MHz)					3490.02	3500.01	3510		
80	QPSK	1	1		22.13	22.25	22.11	23.0	0.0
Channel					632334	633334	634334	tune-up limit (dBm)	MPR
Frequency (MHz)					3485.01	3500.01	3515.01		
70	QPSK	1	1		22.13	22.16	22.19	23.0	0.0
Channel					632000	633334	634668	tune-up limit (dB)	MPR
Frequency (MHz)					3490	3500.01	3503.02		
60	QPSK	1	1		22.14	22.27	22.17	23.0	0.0
Channel					631668	633334	635000	tune-up limit (dBm)	MPR
Frequency (MHz)					3475.02	3500.01	3525		
50	QPSK	1	1		22.08	22.24	22.10	23.0	0.0
Channel					631334	633334	635334	tune-up limit (dBm)	MPR
Frequency (MHz)					3470.01	3500.01	3530.01		
40	QPSK	1	1		22.12	22.22	22.18	23.0	0.0
Channel					631000	633334	635668	tune-up limit (dB)	MPR
Frequency (MHz)					3465	3500.01	3503.02		
30	QPSK	1	1		22.05	22.21	22.17	23.0	0.0
Channel					630634	633334	635834	tune-up limit (dBm)	MPR
Frequency (MHz)					3462.51	3500.01	3537.51		
25	QPSK	1	1		22.17	22.27	22.13	23.0	0.0
Channel					630300	633334	636000	tune-up limit (dB)	MPR
Frequency (MHz)					3460.02	3500.01	3540		
20	QPSK	1	1		22.10	22.17	22.10	23.0	0.0
Channel					630500	633334	636168	tune-up limit (dB)	MPR
Frequency (MHz)					3457.3	3500.01	3542.32		
15	QPSK	1	1		22.11	22.15	22.13	23.0	0.0
Channel					630334	633334	636334	tune-up limit (dBm)	MPR
Frequency (MHz)					3455.01	3500.01	3545.01		
10	QPSK	1	1		22.10	22.20	22.14	23.0	0.0

Part27Q n78 PC2 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					3500.01				
Frequency (MHz)					24.97				
100	Pi/2 BPSK	1	1		24.93				
100	Pi/2 BPSK	1	137		24.93		26.0	0.0	
100	Pi/2 BPSK	1	271		24.92				
100	Pi/2 BPSK	135	0		24.80		25.5	0.5	
100	Pi/2 BPSK	135	69		24.92		26.0	0.0	
100	Pi/2 BPSK	135	138		24.14		25.5	0.5	
100	Pi/2 BPSK	270	0		24.48				
100	QPSK	1	1		25.04				
100	QPSK	1	137		24.98		26.0	0.0	
100	QPSK	1	271		24.96				
100	QPSK	135	0		23.97		25.0	1.0	
100	QPSK	135	69		24.96		26.0	0.0	
100	QPSK	135	138		23.90		25.0	1.0	
100	QPSK	270	0		23.94		25.0	1.0	
100	16QAM	1	1		23.54		25.0	1.0	
100	64QAM	1	1		22.10		23.5	2.5	
100	256QAM	1	1		20.60		21.5	4.5	
Channel					633000	633334	633668	tune-up limit (dB)	MPR
Frequency (MHz)					3486	3500.01	3503.02		
90	QPSK	1	1		24.88	24.90	24.76	23.0	0.0
Channel					632668	633334	634000	tune-up limit (dBm)	MPR
Frequency (MHz)					3490.02	3500.01	3510		
80	QPSK	1	1		24.87	24.91	24.88	26.0	0.0
Channel					632334	633334	634334	tune-up limit (dBm)	MPR
Frequency (MHz)					3485.01	3500.01	3515.01		
70	QPSK	1	1		24.90	24.99	24.80	26.0	0.0
Channel					632000	633334	634668	tune-up limit (dB)	MPR
Frequency (MHz)					3490	3500.01	3503.02		
60	QPSK	1	1		24.89	24.93	24.86	23.0	0.0
Channel					631668	633334	635000	tune-up limit (dBm)	MPR
Frequency (MHz)					3475.02	3500.01	3525		
50	QPSK	1	1		24.97	24.95	24.76	26.0	0.0
Channel					631334	633334	635334	tune-up limit (dBm)	MPR
Frequency (MHz)					3470.01	3500.01	3530.01		
40	QPSK	1	1		24.90	24.98	24.79	26.0	0.0
Channel					631000	633334	635668	tune-up limit (dB)	MPR
Frequency (MHz)					3465	3500.01	3503.02		
30	QPSK	1	1		24.90	24.94	24.83	23.0	0.0
Channel					630634	633334	635834	tune-up limit (dBm)	MPR
Frequency (MHz)					3462.51	3500.01	3537.51		
25	QPSK	1	1		24.92	24.93	24.76	26.0	0.0
Channel					630300	633334	636000	tune-up limit (dBm)	MPR
Frequency (MHz)					3460.02	3500.01	3540		
20	QPSK	1	1		24.96	24.95	24.79	26.0	0.0
Channel					630500	633334	636168	tune-up limit (dB)	MPR
Frequency (MHz)					3457.3	3500.01	3542.32		
15	QPSK	1	1		24.96	24.99	24.85	23.0	0.0
Channel					630334	633334	636334	tune-up limit (dBm)	MPR
Frequency (MHz)					3455.01	3500.01	3545.01		
10	QPSK	1	1		24.86	25.01	24.76	26.0	0.0

n7 Main PA Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 505000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 509000	Tune-up limit (dBm)	MPR (dB)	
Channel				2525	2535	2545	25.7	0.0	
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	24.82	24.86	24.75	25.7	0.0	
50	PI/2 BPSK	1	135	24.67	24.76	24.71			
50	PI/2 BPSK	1	265	24.49	24.69	24.54			
50	PI/2 BPSK	135	0	24.29	24.39	24.28			
50	PI/2 BPSK	135	68	24.79	24.82	24.72	25.7	0.0	
50	PI/2 BPSK	135	135	24.26	24.34	24.31	25.2	0.5	
50	PI/2 BPSK	270	0	24.28	24.40	24.39	25.7	0.0	
50	QPSK	1	1	24.88	24.82	24.83			
50	QPSK	1	135	24.75	24.82	24.78			
50	QPSK	1	268	24.67	24.73	24.71			
50	QPSK	135	0	23.78	23.91	23.81	24.7	1.0	
50	QPSK	135	68	24.72	24.85	24.73	25.7	0.0	
50	QPSK	135	135	23.76	23.83	23.81	24.7	1.0	
50	QPSK	270	0	23.83	23.96	23.95	24.7	1.0	
50	16QAM	1	1	23.71	23.81	23.85			
50	64QAM	1	1	22.21	22.29	22.28			
50	256QAM	1	1	20.32	20.49	20.44			
Channel				504000	507000	510000	Tune-up limit (dB)	MPR	
Frequency (MHz)				2525	2535	2550	(dB)		
40	QPSK	1	1	24.75	24.85	24.75	25.7	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	(dBm)		
30	QPSK	1	1	24.74	24.86	24.69	25.7	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)		
25	QPSK	1	1	24.76	24.80	24.74	25.7	0.0	
Channel				503000	507000	512000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2510	2535	2560	(dBm)		
20	QPSK	1	1	24.76	24.88	24.72	25.7	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)		
15	QPSK	1	1	24.83	24.77	24.78	25.7	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2505	2535	2565	(dBm)		
10	QPSK	1	1	24.84	24.78	24.75	25.7	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)		
5	QPSK	1	1	24.81	24.79	24.70	25.7	0.0	

n66 Main PA Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346500	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 351500	Tune-up limit (dBm)	MPR (dB)	
Channel				1732.5	1745	1757.5	24.5	0.0	
Frequency (MHz)				1732.5	1745	1757.5			
45	PI2 BPSK	1	1	23.79	23.87	23.75	24.5	0.0	
45	PI2 BPSK	1	120	23.72	23.81	23.71			
45	PI2 BPSK	1	243	23.47	23.65	23.55			
45	PI2 BPSK	120	0	23.28	23.40	23.23			
45	PI2 BPSK	120	60	23.75	23.86	23.66	24.5	0.5	
45	PI2 BPSK	120	120	23.26	23.35	23.24	24.0	0.5	
45	PI2 BPSK	240	0	23.28	23.45	23.34	24.5	0.0	
45	QPSK	1	1	23.86	23.90	23.83			
45	QPSK	1	120	23.75	23.79	23.71			
45	QPSK	1	243	23.59	23.80	23.64			
45	QPSK	120	0	22.71	22.89	22.80	23.5	1.0	
45	QPSK	120	60	23.67	23.82	23.72	24.5	0.0	
45	QPSK	120	120	22.73	22.88	22.74	23.5	1.0	
45	QPSK	240	0	22.85	23.01	22.92	23.5	1.0	
45	16QAM	1	1	22.74	22.79	22.81			
45	64QAM	1	1	21.20	21.20	21.15			
45	256QAM	1	1	19.30	19.44	19.39			
Channel				346000	349000	352000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1730	1745	1760	(dBm)		
40	QPSK	1	1	23.64	23.79	23.69	24.5	0.0	
Channel				345500	349000	352500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1727.5	1745	1762.5	(dBm)		
35	QPSK	1	1	23.76	23.87	23.81	24.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	(dBm)		
30	QPSK	1	1	23.78	23.81	23.73	24.5	0.0	
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5	(dBm)		
25	QPSK	1	1	23.75	23.85	23.71	24.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	(dBm)		
20	QPSK	1	1	23.80	23.77	23.77	24.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)		
15	QPSK	1	1	23.80	23.80	23.76	24.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	(dBm)		
10	QPSK	1	1	23.82	23.87	23.76	24.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)		
5	QPSK	1	1	23.72	23.75	23.73	24.5	0.0	

n38 Main PA Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 516004	Power Middle Ch. / Freq. 519000	Power High Ch. / Freq. 519996	Tune-up limit (dBm)	MPR (dB)	
Channel				2590.02	2595	2599.98	25.7	0.0	
Frequency (MHz)				2511	25.25	25.21			
40	PI/2 BPSK	1	1	25.11	25.25	25.21			
40	PI/2 BPSK	1	53	25.00	25.12	25.02			
40	PI/2 BPSK	1	104	24.99	25.02	24.93	25.2	0.5	
40	PI/2 BPSK	50	0	24.71	24.81	24.77			
40	PI/2 BPSK	50	28	25.16	25.19	25.15			
40	PI/2 BPSK	50	56	24.64	24.73	24.64			
40	PI/2 BPSK	100	0	24.75	24.87	24.74	25.7	0.0	
40	QPSK	1	1	25.20	25.29	25.26			
40	QPSK	1	53	25.09	25.21	25.15			
40	QPSK	1	104	25.13	25.16	25.13			
40	QPSK	50	0	24.29	24.34	24.27	24.7	1.0	
40	QPSK	50	28	25.15	25.22	25.11			
40	QPSK	50	56	24.26	24.30	24.16			
40	QPSK	100	0	24.32	24.41	24.29			
40	16QAM	1	1	24.12	24.22	24.08	24.7	1.0	
40	64QAM	1	1	22.50	22.63	22.56			
40	256QAM	1	1	20.73	20.85	20.77			
40	256QAM	1	1	20.73	20.85	20.77			
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2250.01	2595	2604.99			
30	QPSK	1	1	25.10	25.19	25.22			
30	QPSK	1	1	25.10	25.19	25.22			
Channel				516504	519000	521498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2562.52	2595	2607.48			
25	QPSK	1	1	25.10	25.16	25.14			
25	QPSK	1	1	25.10	25.16	25.14			
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2550	2595	2610			
20	QPSK	1	1	25.15	25.34	25.19			
20	QPSK	1	1	25.15	25.34	25.19			
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	25.06	25.21	25.11			
15	QPSK	1	1	25.06	25.21	25.11			
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	25.16	25.26	25.19			
10	QPSK	1	1	25.16	25.26	25.19			

n41 Main PA Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 506002	Power Middle Ch. / Freq. 518598	Power High Ch. / Freq. 520000	Tune-up limit (dBm)	MPR (dB)	
Channel				2546.01	2592.99	2640	25.7	0.0	
Frequency (MHz)				2520	25.33	25.30			
100	PI/2 BPSK	1	1	25.20	25.33	25.30			
100	PI/2 BPSK	1	137	25.07	25.19	25.18			
100	PI/2 BPSK	1	271	25.04	25.19	24.99	25.2	0.5	
100	PI/2 BPSK	135	0	24.85	24.90	24.93			
100	PI/2 BPSK	135	69	25.31	25.24	25.21			
100	PI/2 BPSK	135	138	24.70	24.85	24.73			
100	PI/2 BPSK	270	0	24.88	25.01	24.91	25.7	0.0	
100	QPSK	1	1	25.27	25.38	25.36			
100	QPSK	1	137	25.24	25.37	25.26			
100	QPSK	1	271	25.18	25.26	25.18			
100	QPSK	135	0	24.46	24.43	24.41	24.7	1.0	
100	QPSK	135	69	25.20	25.35	25.22			
100	QPSK	135	138	24.37	24.39	24.21			
100	QPSK	270	0	24.42	24.48	24.44			
100	16QAM	1	1	24.21	24.31	24.14	24.7	1.0	
100	64QAM	1	1	22.64	22.80	22.72			
100	256QAM	1	1	20.80	21.00	20.83			
100	256QAM	1	1	20.80	21.00	20.83			
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	25.23	25.29	25.28			
90	QPSK	1	1	25.23	25.29	25.28			
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.98			
80	QPSK	1	1	25.15	25.32	25.32			
80	QPSK	1	1	25.15	25.32	25.32			
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	25.18	25.25	23.21			
70	QPSK	1	1	25.18	25.25	23.21			
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	25.16	25.24	25.22			
60	QPSK	1	1	25.16	25.24	25.22			
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.02	2592.99	2664.99			
50	QPSK	1	1	25.17	25.30	25.30			
50	QPSK	1	1	25.17	25.30	25.30			
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	25.23	25.25	25.22			
40	QPSK	1	1	25.23	25.25	25.22			
Channel				502200	518598	533998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	25.14	25.25	25.32			
30	QPSK	1	1	25.14	25.25	25.32			
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	25.22	25.31	25.29			
20	QPSK	1	1	25.22	25.31	25.29			
Channel				500200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	25.23	25.28	25.31			
15	QPSK	1	1	25.23	25.28	25.31			
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	25.19	25.30	25.27			
10	QPSK	1	1	25.19	25.30	25.27			

n7 Main PA Ant3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 505000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 509000	Tune-up limit (dBm)	MPR (dB)
Channel				2525	2535	2545	24.0	0.0
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	22.64	22.69	22.55		
50	PI2 BPSK	1	135	22.48	22.59	22.55		
50	PI2 BPSK	1	268	22.29	22.42	22.27	23.5	0.5
50	PI2 BPSK	135	0	22.04	22.18	22.10		
50	PI2 BPSK	135	68	22.54	22.64	22.54		
50	PI2 BPSK	135	135	22.05	22.16	22.09		
50	PI2 BPSK	270	0	22.12	22.23	22.09	23.5	0.5
50	QPSK	1	1	22.69	22.74	22.65		
50	QPSK	1	135	22.60	22.67	22.63		
50	QPSK	1	268	22.55	22.65	22.62		
50	QPSK	135	0	21.82	21.72	21.59	23.0	1.0
50	QPSK	135	68	22.54	22.62	22.56		
50	QPSK	135	135	21.83	21.73	21.64		
50	QPSK	270	0	21.65	21.76	21.66		
50	16QAM	1	1	21.56	21.68	21.55	23.0	1.0
50	64QAM	1	1	20.03	20.07	20.03		
50	256QAM	1	1	18.18	18.24	18.17		
Channel				504000	507000	510000		
Frequency (MHz)				2525	2535	2550	(dBm)	(dB)
40	QPSK	1	1	22.55	22.60	22.55	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)
30	QPSK	1	1	22.68	22.68	22.51	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)
25	QPSK	1	1	22.62	22.69	22.50	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)
20	QPSK	1	1	22.57	22.70	22.60	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2502.5	(dBm)	(dB)
15	QPSK	1	1	22.62	22.61	22.51	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	QPSK	1	1	22.55	22.60	22.52	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2507.5	(dBm)	(dB)
5	QPSK	1	1	22.61	22.65	22.57	24.0	0.0

n66 Main PA Ant3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346500	349000	351500		
				1732.5	1745	1767.5		
45	PI2 BPSK	1	1	21.67	21.71	21.82	23.5	0.0
45	PI2 BPSK	1	120	21.60	21.63	21.59		
45	PI2 BPSK	1	243	21.52	21.59	21.53		
45	PI2 BPSK	120	0	21.06	21.22	21.07		
45	PI2 BPSK	120	60	21.59	21.70	21.58	23.0	0.5
45	PI2 BPSK	120	120	21.02	21.18	21.12	23.5	0.0
45	PI2 BPSK	240	0	21.16	21.28	21.06	23.5	0.0
45	QPSK	1	1	21.70	21.75	21.66		
45	QPSK	1	120	21.58	21.70	21.64		
45	QPSK	1	243	21.60	21.69	21.68		
45	QPSK	120	0	20.89	20.78	20.57	22.5	1.0
45	QPSK	120	60	21.56	21.67	21.53	23.5	0.0
45	QPSK	120	120	20.80	20.72	20.66	22.5	1.0
45	QPSK	240	0	20.71	20.83	20.70	22.5	1.0
45	16QAM	1	1	20.83	20.72	20.52		
45	64QAM	1	1	19.01	19.05	19.09		
45	256QAM	1	1	17.19	17.23	17.14		
Channel				346000	349000	352000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	21.59	21.68	21.63	23.5	0.0
Channel				345500	349000	352500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	21.60	21.71	21.67	23.5	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.60	21.70	21.51	23.5	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	21.64	21.63	21.62	23.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.56	21.64	21.51	23.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.62	21.68	21.53	23.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.57	21.70	21.59	23.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.63	21.60	21.55	23.5	0.0

n38 Main PA Ant3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 516004	Power Middle Ch. / Freq. 519000	Power High Ch. / Freq. 519996	Tune-up limit (dBm)	MPR (dB)
Channel				2590.02	2595	2599.98	24.5	0.0
Frequency (MHz)				23.07	23.22	23.14		
40	PI/2 BPSK	1	1	23.07	23.22	23.14		
40	PI/2 BPSK	1	53	23.08	23.17	23.02		
40	PI/2 BPSK	1	104	22.92	23.06	23.02	24.0	0.5
40	PI/2 BPSK	50	0	22.71	22.82	22.71		
40	PI/2 BPSK	50	28	23.13	23.19	23.14		
40	PI/2 BPSK	50	56	22.82	22.72	22.58		
40	PI/2 BPSK	100	0	22.75	22.84	22.74	24.5	0.0
40	QPSK	1	1	23.18	23.28	23.22		
40	QPSK	1	53	23.12	23.24	23.14		
40	QPSK	1	104	23.17	23.23	23.19		
40	QPSK	50	0	22.31	22.35	22.21	23.5	1.0
40	QPSK	50	28	23.10	23.21	23.18	24.5	0.0
40	QPSK	50	56	22.06	22.17	22.06	23.5	1.0
40	QPSK	100	0	22.23	22.26	22.13	23.5	1.0
40	16QAM	1	1	22.13	22.20	22.13	23.5	1.0
40	64QAM	1	1	20.82	20.85	20.82	22.0	2.5
40	256QAM	1	1	18.84	18.91	18.87	20.0	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				22.65.01	22.65	22.64.99	24.5	0.0
30	QPSK	1	1	23.07	23.25	23.16	24.5	0.0
Channel				516504	519000	521498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2582.52	2595	2607.48	24.5	0.0
25	QPSK	1	1	23.03	23.22	23.12	24.5	0.0
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2584	2595	2610	24.5	0.0
20	QPSK	1	1	23.01	23.14	23.12	24.5	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49	24.5	0.0
15	QPSK	1	1	23.13	23.19	23.12	24.5	0.0
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2675.02	2695	2614.98	24.5	0.0
10	QPSK	1	1	23.11	23.17	23.08	24.5	0.0

n41 Main PA Ant3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 506202	Power Middle Ch. / Freq. 518598	Power High Ch. / Freq. 526000	Tune-up limit (dBm)	MPR (dB)
Channel				2546.01	2592.99	2640	24.5	0.0
Frequency (MHz)				22.97	23.10	23.00		
100	PI/2 BPSK	1	1	22.97	23.10	23.00		
100	PI/2 BPSK	1	137	23.01	23.12	22.98		
100	PI/2 BPSK	1	271	22.78	23.02	22.80	24.0	0.5
100	PI/2 BPSK	135	0	22.82	22.70	22.58		
100	PI/2 BPSK	135	69	23.07	23.10	23.03		
100	PI/2 BPSK	135	138	22.47	22.59	22.53		
100	PI/2 BPSK	270	0	22.88	22.69	22.60	24.5	0.0
100	QPSK	1	1	23.14	23.19	23.08		
100	QPSK	1	137	23.08	23.14	23.04		
100	QPSK	1	271	23.00	23.10	23.05		
100	QPSK	135	0	22.23	22.28	22.13	23.5	1.0
100	QPSK	135	69	22.99	23.14	23.09	24.5	0.0
100	QPSK	135	138	21.95	22.09	21.82	23.5	1.0
100	QPSK	270	0	22.10	22.21	21.98	23.5	1.0
100	16QAM	1	1	22.03	22.17	22.05	23.5	1.0
100	64QAM	1	1	20.50	20.58	20.55	22.0	2.5
100	256QAM	1	1	18.79	18.86	18.80	20.0	4.5
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	24.5	0.0
90	QPSK	1	1	23.05	23.09	23.01	24.5	0.0
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	24.5	0.0
80	QPSK	1	1	23.04	23.14	22.93	24.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655	24.5	0.0
70	QPSK	1	1	23.03	23.10	23.08	24.5	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98	24.5	0.0
60	QPSK	1	1	23.07	23.13	22.95	24.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2621.02	2592.99	2664.99	24.5	0.0
50	QPSK	1	1	23.08	23.09	23.03	24.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	24.5	0.0
40	QPSK	1	1	23.00	23.08	22.98	24.5	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	24.5	0.0
30	QPSK	1	1	23.11	23.16	23.01	24.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	24.5	0.0
20	QPSK	1	1	23.10	23.11	23.02	24.5	0.0
Channel				500200	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48	24.5	0.0
15	QPSK	1	1	23.06	23.07	23.04	24.5	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	24.5	0.0
10	QPSK	1	1	23.04	23.15	22.96	24.5	0.0

n7 Main PA Ant4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 505000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 509000	
Channel							
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	24.72	24.83	24.76	
50	PI/2 BPSK	1	135	24.64	24.81	24.58	25.5
50	PI/2 BPSK	1	265	24.58	24.68	24.59	
50	PI/2 BPSK	135	0	24.29	24.41	24.34	25.0
50	PI/2 BPSK	135	68	24.80	24.81	24.79	25.5
50	PI/2 BPSK	135	135	24.27	24.38	24.19	25.0
50	PI/2 BPSK	270	0	24.41	24.42	24.37	
50	QPSK	1	1	24.76	24.81	24.84	
50	QPSK	1	135	24.71	24.90	24.75	25.5
50	QPSK	1	268	24.79	24.82	24.85	
50	QPSK	135	0	23.98	24.00	23.77	24.5
50	QPSK	135	68	24.68	24.68	24.81	25.5
50	QPSK	135	135	23.89	23.75	23.61	24.5
50	QPSK	270	0	23.73	23.82	23.70	
50	16QAM	1	1	23.76	23.78	23.73	24.5
50	64QAM	1	1	22.22	22.31	22.25	23.0
50	256QAM	1	1	20.42	20.54	20.46	21.0
Channel				504000	507000	510000	
Frequency (MHz)				2525	2535	2550	
40	QPSK	1	1	24.63	24.79	24.70	25.5
Channel				503000	507000	511000	
Frequency (MHz)				2515	2535	2555	
30	QPSK	1	1	24.65	24.84	24.76	25.5
Channel				502500	507000	511500	
Frequency (MHz)				2512.5	2535	2557.5	
25	QPSK	1	1	24.64	24.79	24.73	25.5
Channel				503000	507000	512000	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	1	24.73	24.85	24.78	25.5
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	1	24.69	24.87	24.81	25.5
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	1	24.67	24.77	24.75	25.5
Channel				500500	507000	513500	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	1	24.63	24.85	24.71	25.5

n66 Main PA Ant4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346500	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 351500	
Channel							
Frequency (MHz)				1732.5	1745	1767.5	
45	PI/2 BPSK	1	1	23.63	23.72	23.67	
45	PI/2 BPSK	1	120	23.47	23.67	23.35	24.5
45	PI/2 BPSK	1	243	23.39	23.55	23.45	
45	PI/2 BPSK	120	0	23.06	23.17	23.20	24.0
45	PI/2 BPSK	120	60	23.65	23.66	23.56	24.5
45	PI/2 BPSK	120	120	23.09	23.23	22.98	24.0
45	PI/2 BPSK	240	0	23.25	23.24	23.18	0.0
45	QPSK	1	1	23.69	23.76	23.72	
45	QPSK	1	120	23.48	23.71	23.59	24.5
45	QPSK	1	243	23.64	23.69	23.68	0.0
45	QPSK	120	0	22.74	22.83	22.59	23.5
45	QPSK	120	60	23.48	23.65	23.80	24.5
45	QPSK	120	120	22.44	22.55	22.47	23.5
45	QPSK	240	0	22.58	22.61	22.52	1.0
45	16QAM	1	1	22.83	22.57	22.80	23.5
45	64QAM	1	1	20.97	21.17	21.11	22.0
45	256QAM	1	1	19.23	19.35	19.33	20.0
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	QPSK	1	1	23.62	23.71	23.69	24.5
Channel				345500	349000	352500	
Frequency (MHz)				1727.5	1745	1762.5 <th></th>	
35	QPSK	1	1	23.64	23.73	23.70	24.5
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	23.60	23.63	23.62	24.5
Channel				344500	349000	353500	
Frequency (MHz)				1722.5	1745	1767.5	
25	QPSK	1	1	23.66	23.72	23.68	24.5
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	23.57	23.69	23.60	24.5
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	23.54	23.62	23.59	24.5
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	23.56	23.70	23.58	24.5
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	23.55	23.72	23.68	24.5

n38 Main PA Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 516004	Power Middle Ch. / Freq. 519000	Power High Ch. / Freq. 519996	Tune-up limit (dBm)	MPR (dB)	
Channel				2590.02	2595	2599.98	25.7	0.0	
Frequency (MHz)				25.23	25.34	25.31			
40	PI/2 BPSK	1	1	25.23	25.34	25.31			
40	PI/2 BPSK	1	53	25.15	25.26	25.20			
40	PI/2 BPSK	1	104	25.10	25.21	25.10	25.2	0.5	
40	PI/2 BPSK	50	0	24.76	24.87	24.80			
40	PI/2 BPSK	50	28	25.22	25.30	25.17			
40	PI/2 BPSK	50	56	24.68	24.81	24.70			
40	PI/2 BPSK	100	0	24.82	24.93	24.79	25.7	0.0	
40	QPSK	1	1	25.28	25.40	25.36			
40	QPSK	1	53	25.31	25.37	25.29			
40	QPSK	1	104	25.15	25.28	25.19			
40	QPSK	50	0	24.38	24.46	24.36	24.7	1.0	
40	QPSK	50	28	25.30	25.35	25.25			
40	QPSK	50	56	24.25	24.33	24.26			
40	QPSK	100	0	24.24	24.38	24.25			
40	16QAM	1	1	24.27	24.33	24.19	24.7	1.0	
40	64QAM	1	1	22.65	22.74	22.70			
40	256QAM	1	1	20.91	21.06	20.94			
Channel				517002	519000	520998	Tune-up limit (dB)	MPR	
Frequency (MHz)				22.65.01	25.95	26.04.99			
30	QPSK	1	1	25.23	25.37	25.32			
Channel				516504	519000	521498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25.62.52	25.95	26.07.48			
25	QPSK	1	1	25.23	25.25	25.23		25.7	
Channel				516000	519000	520000			
Frequency (MHz)				25.60	25.95	26.00			
20	QPSK	1	1	25.21	25.29	25.22		25.7	
Channel				515502	519000	522498			
Frequency (MHz)				25.77.51	25.95	26.12.49			
15	QPSK	1	1	25.13	25.34	25.28	25.7	0.0	
Channel				515004	519000	522998			
Frequency (MHz)				25.75.02	25.95	26.14.98			
10	QPSK	1	1	25.15	25.29	25.29			

n41 Main PA Ant4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 506002	Power Middle Ch. / Freq. 518598	Power High Ch. / Freq. 520000	Tune-up limit (dBm)	MPR (dB)	
Channel				2546.01	2592.99	2640	25.7	0.0	
Frequency (MHz)				25.37	25.46	25.38			
100	PI/2 BPSK	1	1	25.37	25.46	25.38			
100	PI/2 BPSK	1	137	25.32	25.36	25.36			
100	PI/2 BPSK	1	271	25.26	25.37	25.23	25.2	0.5	
100	PI/2 BPSK	135	0	24.92	24.96	24.93			
100	PI/2 BPSK	135	69	25.28	25.44	25.24			
100	PI/2 BPSK	135	138	24.80	24.87	24.76			
100	PI/2 BPSK	270	0	24.95	25.08	24.91	25.7	0.0	
100	QPSK	1	1	25.42	25.54	25.47			
100	QPSK	1	137	25.36	25.51	25.40			
100	QPSK	1	271	25.28	25.43	25.26			
100	QPSK	135	0	24.47	24.55	24.43	24.7	1.0	
100	QPSK	135	69	25.36	25.47	25.31			
100	QPSK	135	138	24.36	24.50	24.31			
100	QPSK	270	0	24.39	24.52	24.30			
100	16QAM	1	1	24.42	24.41	24.33	24.7	1.0	
100	64QAM	1	1	22.75	22.89	22.81			
100	256QAM	1	1	21.03	21.09	21.01			
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR	
Frequency (MHz)				25.41	25.92.99	26.44.98			
90	QPSK	1	1	25.37	25.50	25.41		25.7	
Channel				507204	518598	529998			
Frequency (MHz)				25.36.02	25.92.99	26.49.98			
80	QPSK	1	1	25.27	25.40	25.33	25.7	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				25.31.01	25.92.99	26.55			
70	QPSK	1	1	23.03	23.10	23.08		25.7	
Channel				505200	518598	531998			
Frequency (MHz)				25.06	25.92.99	26.59.98			
60	QPSK	1	1	25.37	25.41	25.43	25.7	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				25.31.03	25.92.99	26.64.99			
50	QPSK	1	1	25.31	25.43	25.34		25.7	
Channel				503202	518598	534000			
Frequency (MHz)				25.16.01	25.92.99	26.70			
40	QPSK	1	1	25.33	25.39	25.37	25.7	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				25.11	25.92.99	26.74.98			
30	QPSK	1	1	25.34	25.49	25.36		25.7	
Channel				501204	518598	535998			
Frequency (MHz)				25.06.02	25.92.99	26.79.99			
20	QPSK	1	1	25.36	25.45	25.35	25.7	0.0	
Channel				500200	518598	536998			
Frequency (MHz)				25.03.5	25.92.99	26.82.48			
15	QPSK	1	1	25.38	25.39	25.38		25.7	
Channel				500202	518598	537000			
Frequency (MHz)				25.01.01	25.92.99	26.85			
10	QPSK	1	1	25.34	25.46	25.34		25.7	

Part270 n77 Main PA Ant5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.26	22.31	22.22		
100	PI2 BPSK	1	137	22.22	22.28	22.14	23.0	0.0
100	PI2 BPSK	1	271	22.06	22.13	22.04		
100	PI2 BPSK	135	0	22.11	22.18	22.03	23.0	0.0
100	PI2 BPSK	135	69	22.20	22.28	22.23	23.0	0.0
100	PI2 BPSK	135	138	22.09	22.14	22.02		
100	PI2 BPSK	270	0	22.13	22.20	22.10	23.0	0.0
100	QPSK	1	1	22.30	22.34	22.27		
100	QPSK	1	137	22.14	22.25	22.20	23.0	0.0
100	QPSK	1	271	22.20	22.26	22.24		
100	QPSK	135	0	22.08	22.20	22.08	23.0	0.0
100	QPSK	135	69	22.24	22.27	22.19	23.0	0.0
100	QPSK	135	138	22.06	22.19	22.13	23.0	0.0
100	QPSK	270	0	22.20	22.24	22.15	23.0	0.0
100	8QAM	1	1	21.91	22.01	21.97	23.0	0.0
100	8QAM	1	1	21.70	21.76	21.61	23.0	0.0
100	25QAM	1	1	20.58	20.72	20.62	21.5	1.5
Channel								
Frequency (MHz)				649668	650000	650334	time-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.19	22.20	22.15	23.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.19	22.28	22.23	23.0	0.0
Channel								
Frequency (MHz)				3735	3840	3945	time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.17	22.30	22.12	23.0	0.0
Channel								
Frequency (MHz)				648668	650000	650334	time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.19	22.29	22.15	23.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.19	22.28	22.14	23.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.21	22.27	22.20	23.0	0.0
Channel								
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.19	22.23	22.22	23.0	0.0
Channel								
Frequency (MHz)				647500	650000	654500	time-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.24	22.27	22.14	23.0	0.0
Channel								
Frequency (MHz)				3710.01	3840	3970.02	time-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.17	22.28	22.13	23.0	0.0
Channel								
Frequency (MHz)				647168	650000	654834	time-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.15	22.30	22.16	23.0	0.0
Channel								
Frequency (MHz)				647000	650000	655000	time-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.24	22.19	22.12	23.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	25.40	25.45	25.35		
100	PI2 BPSK	1	137	25.30	25.40	25.26	26.0	0.0
100	PI2 BPSK	1	271	25.20	25.34	25.20		
100	PI2 BPSK	135	0	24.87	24.99	24.90	25.5	0.5
100	PI2 BPSK	135	69	25.28	25.41	25.32	26.0	0.0
100	PI2 BPSK	135	138	24.77	24.91	24.81		
100	PI2 BPSK	270	0	24.86	24.96	24.90	25.5	0.5
100	QPSK	1	1	25.43	25.49	25.39		
100	QPSK	1	137	25.36	25.42	25.30	26.0	0.0
100	QPSK	1	271	25.35	25.37	25.26		
100	QPSK	135	0	24.32	24.41	24.31	25.0	1.0
100	QPSK	135	69	25.38	25.42	25.31	26.0	0.0
100	QPSK	135	138	24.27	24.39	24.26	25.0	1.0
100	QPSK	270	0	24.38	24.48	24.45	25.0	1.0
100	8QAM	1	1	24.07	24.10	24.03	25.0	1.0
100	8QAM	1	1	22.16	22.27	22.15	23.5	2.5
100	25QAM	1	1	20.55	20.67	20.53	21.5	4.5
Channel								
Frequency (MHz)				649668	650000	652334	time-up limit (dBm)	MPR (dB)
90	QPSK	1	1	25.19	25.36	25.31	26.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.35	25.45	25.35	26.0	0.0
Channel								
Frequency (MHz)				3735	3840	3945	time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.35	25.40	25.31	26.0	0.0
Channel								
Frequency (MHz)				648668	650000	653334	time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.19	25.43	25.34	26.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.29	25.40	25.38	26.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.35	25.39	25.36	26.0	0.0
Channel								
Frequency (MHz)				647668	650000	654334	time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.18	25.35	25.35	26.0	0.0
Channel								
Frequency (MHz)				647500	650000	654500	time-up limit (dBm)	MPR (dB)
25	QPSK	1	1	25.34	25.38	25.31	26.0	0.0
Channel								
Frequency (MHz)				3710.01	3840	3970.02	time-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.30	25.41	25.28	26.0	0.0
Channel								
Frequency (MHz)				647168	650000	654834	time-up limit (dBm)	MPR (dB)
15	QPSK	1	1	25.40	25.39	25.36	26.0	0.0
Channel								
Frequency (MHz)				647000	650000	655000	time-up limit (dBm)	MPR (dB)
10	QPSK	1	1	25.35	25.34	25.34	26.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)					3500.01			
100	PI2 BPSK	1	1		22.39			
100	PI2 BPSK	1	137		22.40		23.0	0.0
100	PI2 BPSK	1	271		22.20			
100	PI2 BPSK	135	0		22.33	24.90	23.0	0.0
100	PI2 BPSK	135	69		22.38		23.0	0.0
100	PI2 BPSK	135	138		22.21			
100	PI2 BPSK	270	0		22.35		23.0	0.0
100	QPSK	1	1		22.45			
100	QPSK	1	137		22.40	25.30	23.0	0.0
100	QPSK	1	271		22.40			
100	QPSK	135	0		22.26		23.0	0.0
100	QPSK	135	69		22.37		23.0	0.0
100	QPSK	135	138		22.23		23.0	0.0
100	QPSK	270	0		22.31		23.0	0.0
100	8QAM	1	1		21.99		23.0	0.0
100	8QAM	1	1		21.66		23.0	0.0
100	25QAM	1	1		20.63		21.5	1.5
Channel								
Frequency (MHz)				633000	633334	633668	time-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.31	22.41	22.31	23.0	0.0
Channel								
Frequency (MHz)				633668	633334	634000	time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.31	22.33	22.32	23.0	0.0
Channel								
Frequency (MHz)				634000	633334	634334	time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.35	22.39	22.37	23.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.31	22.35	22.32	23.0	0.0
Channel								
Frequency (MHz)				631668	633334	635000	time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.31	22.40	22.31	23.0	0.0
Channel								
Frequency (MHz)				631334	633334	635334	time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.32	22.34	22.32	23.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668	time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.40	22.42	22.37	23.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				3500.01 633334			26.0	0.0
100	Pi2 BPSK	1	1	25.35				
100	Pi2 BPSK	1	137	25.32			25.5	0.5
100	Pi2 BPSK	1	271	25.23				
100	Pi2 BPSK	135	0	24.92			26.0	0.0
100	Pi2 BPSK	135	69	25.35				
100	Pi2 BPSK	135	138	24.80			25.5	0.5
100	Pi2 BPSK	270	0	24.92				
100	QPSK	1	1	25.44			26.0	0.0
100	QPSK	1	137	25.39				
100	QPSK	1	271	25.82			25.0	1.0
100	QPSK	135	0	24.33				
100	QPSK	135	69	25.38			26.0	0.0
100	QPSK	135	138	24.34				
100	QPSK	270	0	24.42			25.0	1.0
100	16QAM	1	1	22.98				
100	64QAM	1	1	22.37			23.5	2.5
100	256QAM	1	1	20.71				
Channel				633000	633334	633668	limit (dBm)	MPR (dB)
90	QPSK	1	1	25.27	25.11	25.19	26.0	0.0
Channel				632668	633334	634000	limit-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.30	25.37	25.19	26.0	0.0
Channel				632334	633334	634334	limit-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.32	25.29	25.23	26.0	0.0
Channel				632000	633334	634668	limit-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.29	25.01	35.15.01	26.0	0.0
Channel				631668	633334	635000	limit-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.26	25.39	25.24	26.0	0.0
Channel				631334	633334	635334	limit-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.29	25.36	25.17	26.0	0.0
Channel				631000	633334	635668	limit-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.31	25.12	25.20	26.0	0.0
Channel				630634	633334	635934	limit-up limit (dBm)	MPR (dB)
25	QPSK	1	1	25.24	25.37	25.24	26.0	0.0
Channel				630300	633334	636200	limit-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.28	25.39	25.25	26.0	0.0
Channel				630000	633334	636168	limit-up limit (dBm)	MPR (dB)
15	QPSK	1	1	25.30	25.29	25.23	26.0	0.0
Channel				630334	633334	636334	limit-up limit (dBm)	MPR (dB)
10	QPSK	1	1	25.27	25.36	25.21	26.0	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				3750 650000 650000			24.0	0.0
100	Pi2 BPSK	1	1	23.48				
100	Pi2 BPSK	1	137	23.37			24.0	0.0
100	Pi2 BPSK	1	271	23.31				
100	Pi2 BPSK	135	0	23.25			24.0	0.0
100	Pi2 BPSK	135	69	23.43				
100	Pi2 BPSK	135	138	23.29			24.0	0.0
100	Pi2 BPSK	270	0	23.30				
100	QPSK	1	1	23.51			24.0	0.0
100	QPSK	1	137	23.33				
100	QPSK	1	271	23.38			24.0	0.0
100	QPSK	135	0	23.31				
100	QPSK	135	69	23.44			24.0	0.0
100	QPSK	135	138	23.30				
100	QPSK	270	0	23.36			24.0	0.0
100	16QAM	1	1	23.24				
100	64QAM	1	1	22.88			24.0	0.0
100	256QAM	1	1	21.89				
Channel				649688	650000	650334	limit-up limit (dBm)	MPR (dB)
90	QPSK	1	1	23.37	23.38	23.29	24.0	0.0
Channel				649334	650000	650668	limit-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.30	23.39	23.32	24.0	0.0
Channel				649000	650000	651000	limit-up limit (dBm)	MPR (dB)
70	QPSK	1	1	23.35	23.46	23.32	24.0	0.0
Channel				648688	650000	651334	limit-up limit (dBm)	MPR (dB)
60	QPSK	1	1	23.39	23.41	23.27	24.0	0.0
Channel				648334	650000	651668	limit-up limit (dBm)	MPR (dB)
50	QPSK	1	1	23.34	23.44	23.24	24.0	0.0
Channel				648000	650000	652000	limit-up limit (dBm)	MPR (dB)
40	QPSK	1	1	23.41	23.48	23.35	24.0	0.0
Channel				647688	650000	652334	limit-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.33	23.37	23.25	24.0	0.0
Channel				647500	650000	652500	limit-up limit (dBm)	MPR (dB)
25	QPSK	1	1	23.31	23.42	23.31	24.0	0.0
Channel				647334	650000	652668	limit-up limit (dBm)	MPR (dB)
20	QPSK	1	1	23.33	23.43	23.32	24.0	0.0
Channel				647168	650000	652834	limit-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.30	23.48	23.24	24.0	0.0
Channel				647000	650000	653000	limit-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.40	23.46	23.30	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				3750 650000 650000			24.0	0.0
100	Pi2 BPSK	1	1	24.29				
100	Pi2 BPSK	1	137	26.22			27.0	0.0
100	Pi2 BPSK	1	271	26.18				
100	Pi2 BPSK	135	0	25.84			26.5	0.5
100	Pi2 BPSK	135	69	26.16				
100	Pi2 BPSK	135	138	25.71			26.5	0.5
100	Pi2 BPSK	270	0	25.74				
100	QPSK	1	1	26.32			27.0	0.0
100	QPSK	1	137	26.23				
100	QPSK	1	271	26.26			26.0	1.0
100	QPSK	135	0	25.23				
100	QPSK	135	69	26.27			27.0	0.0
100	QPSK	135	138	25.19				
100	QPSK	270	0	25.23			26.0	1.0
100	16QAM	1	1	25.21				
100	64QAM	1	1	23.39			24.5	2.5
100	256QAM	1	1	21.89				
Channel				649688	650000	650334	limit-up limit (dBm)	MPR (dB)
90	QPSK	1	1	25.20	26.20	25.15	27.0	0.0
Channel				649334	650000	650668	limit-up limit (dBm)	MPR (dB)
80	QPSK	1	1	26.21	26.22	26.14	27.0	0.0
Channel				649000	650000	651000	limit-up limit (dBm)	MPR (dB)
70	QPSK	1	1	26.22	26.27	26.17	27.0	0.0
Channel				648688	650000	651334	limit-up limit (dBm)	MPR (dB)
60	QPSK	1	1	26.24	26.24	25.10	27.0	0.0
Channel				648334	650000	651668	limit-up limit (dBm)	MPR (dB)
50	QPSK	1	1	26.25	26.20	26.15	27.0	0.0
Channel				648000	650000	652000	limit-up limit (dBm)	MPR (dB)
40	QPSK	1	1	26.17	26.24	26.11	27.0	0.0
Channel				647688	650000	652334	limit-up limit (dBm)	MPR (dB)
30	QPSK	1	1	26.17	26.28	25.18	27.0	0.0
Channel				647500	650000	652500	limit-up limit (dBm)	MPR (dB)
25	QPSK	1	1	26.18	26.26	26.12	27.0	0.0
Channel				647334	650000	652668	limit-up limit (dBm)	MPR (dB)
20	QPSK	1	1	26.26	26.20	26.16	27.0	0.0
Channel				647168	650000	652834	limit-up limit (dBm)	MPR (dB)
15	QPSK	1	1	26.16	26.17	26.13	27.0	0.0
Channel				647000	650000	653000	limit-up limit (dBm)	MPR (dB)
10	QPSK	1	1	26.15	26.19	26.09	27.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					3500.01				
Frequency (MHz)					23.42				
100	Pi/2 BPSK	1	1		23.37		24.0	0.0	
100	Pi/2 BPSK	1	137		23.30				
100	Pi/2 BPSK	1	271		23.30				
100	Pi/2 BPSK	135	0		23.19		24.0	0.0	
100	Pi/2 BPSK	135	69		23.36		24.0	0.0	
100	Pi/2 BPSK	135	138		23.14		24.0	0.0	
100	Pi/2 BPSK	270	0		23.22		24.0	0.0	
100	QPSK	1	1		23.46				
100	QPSK	1	137		23.25		24.0	0.0	
100	QPSK	1	271		23.25				
100	QPSK	135	0		23.27		24.0	0.0	
100	QPSK	135	69		23.41		24.0	0.0	
100	QPSK	135	138		23.20		24.0	0.0	
100	QPSK	270	0		23.26		24.0	0.0	
100	16QAM	1	1		23.33		24.0	0.0	
100	64QAM	1	1		23.11		24.0	0.0	
100	256QAM	1	1		22.02		22.5	1.5	
Channel					633000	633334	633668	tune-up limit	MPR
Frequency (MHz)					3485	3500.01	3503.02	(dBm)	(dB)
90	QPSK	1	1		23.26	23.39	23.33	24.0	0.0
Channel					632668	633334	634000	tune-up limit	MPR
Frequency (MHz)					3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1		23.30	23.42	23.26	24.0	0.0
Channel					632334	633334	634334	tune-up limit	MPR
Frequency (MHz)					3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1		23.30	23.40	23.24	24.0	0.0
Channel					632000	633334	634668	tune-up limit	MPR
Frequency (MHz)					3490	3500.01	3503.02	(dBm)	(dB)
60	QPSK	1	1		23.17	23.36	23.25	24.0	0.0
Channel					631668	633334	635000	tune-up limit	MPR
Frequency (MHz)					3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1		23.29	23.37	23.23	24.0	0.0
Channel					631334	633334	635334	tune-up limit	MPR
Frequency (MHz)					3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1		23.34	23.32	23.23	24.0	0.0
Channel					631000	633334	635668	tune-up limit	MPR
Frequency (MHz)					3465	3500.01	3503.02	(dBm)	(dB)
30	QPSK	1	1		23.31	23.34	23.30	24.0	0.0
Channel					630634	633334	635834	tune-up limit	MPR
Frequency (MHz)					3462.51	3500.01	3537.51	(dBm)	(dB)
25	QPSK	1	1		23.27	23.41	23.31	24.0	0.0
Channel					630300	633334	636000	tune-up limit	MPR
Frequency (MHz)					3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1		23.32	23.40	23.23	24.0	0.0
Channel					630500	633334	636168	tune-up limit	MPR
Frequency (MHz)					3462.3	3500.01	3542.32	(dBm)	(dB)
15	QPSK	1	1		23.33	23.32	23.25	24.0	0.0
Channel					630334	633334	636334	tune-up limit	MPR
Frequency (MHz)					3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1		23.33	23.35	23.30	24.0	0.0

Part27Q n78 PC2 Main PA Ant5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					3500.01				
Frequency (MHz)					23.21				
100	Pi/2 BPSK	1	1		23.11		27.0	0.0	
100	Pi/2 BPSK	1	137		23.11				
100	Pi/2 BPSK	1	271		23.03				
100	Pi/2 BPSK	135	0		23.75		26.5	0.5	
100	Pi/2 BPSK	135	69		23.10		27.0	0.0	
100	Pi/2 BPSK	135	138		23.56		26.5	0.5	
100	Pi/2 BPSK	270	0		23.64				
100	QPSK	1	1		23.25				
100	QPSK	1	137		23.19		27.0	0.0	
100	QPSK	1	271		23.14				
100	QPSK	135	0		23.10		28.0	1.0	
100	QPSK	135	69		23.18		27.0	0.0	
100	QPSK	135	138		23.14		28.0	1.0	
100	QPSK	270	0		23.20		28.0	1.0	
100	16QAM	1	1		23.31		28.0	1.0	
100	64QAM	1	1		23.56		24.5	2.5	
100	256QAM	1	1		22.03		22.5	4.5	
Channel					633000	633334	633668	tune-up limit	MPR
Frequency (MHz)					3485	3500.01	3503.02	(dBm)	(dB)
90	QPSK	1	1		23.15	23.15	23.99	27.0	0.0
Channel					632668	633334	634000	tune-up limit	MPR
Frequency (MHz)					3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1		23.15	23.20	23.02	27.0	0.0
Channel					632334	633334	634334	tune-up limit	MPR
Frequency (MHz)					3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1		23.10	23.16	23.99	27.0	0.0
Channel					632000	633334	634668	tune-up limit	MPR
Frequency (MHz)					3490	3500.01	3503.02	(dBm)	(dB)
60	QPSK	1	1		23.06	23.13	23.98	27.0	0.0
Channel					631668	633334	635000	tune-up limit	MPR
Frequency (MHz)					3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1		23.07	23.20	23.99	27.0	0.0
Channel					631334	633334	635334	tune-up limit	MPR
Frequency (MHz)					3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1		23.08	23.11	23.08	27.0	0.0
Channel					631000	633334	635668	tune-up limit	MPR
Frequency (MHz)					3465	3500.01	3503.02	(dBm)	(dB)
30	QPSK	1	1		23.05	23.22	23.04	27.0	0.0
Channel					630634	633334	635834	tune-up limit	MPR
Frequency (MHz)					3462.51	3500.01	3537.51	(dBm)	(dB)
25	QPSK	1	1		23.12	23.14	23.03	27.0	0.0
Channel					630300	633334	636000	tune-up limit	MPR
Frequency (MHz)					3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1		23.11	23.15	23.98	27.0	0.0
Channel					630500	633334	636168	tune-up limit	MPR
Frequency (MHz)					3462.3	3500.01	3542.32	(dBm)	(dB)
15	QPSK	1	1		23.13	23.16	23.04	27.0	0.0
Channel					630334	633334	636334	tune-up limit	MPR
Frequency (MHz)					3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1		23.14	23.16	23.02	27.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				655000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.14	22.25	22.07	23.5	0.0
100	PI2 BPSK	1	137	22.13	22.21	22.01		
100	PI2 BPSK	1	271	21.95	22.06	21.93		
100	PI2 BPSK	135	0	21.99	22.10	21.98		
100	PI2 BPSK	135	69	22.15	22.15	22.10	23.5	0.0
100	PI2 BPSK	135	138	22.01	22.11	21.89	23.5	0.0
100	PI2 BPSK	270	0	21.99	22.07	21.97	23.5	0.0
100	QPSK	1	1	22.27	22.29	22.16		
100	QPSK	1	137	22.09	22.20	22.11		
100	QPSK	1	271	22.15	22.20	22.09		
100	QPSK	135	0	21.98	22.14	21.94	23.5	0.0
100	QPSK	135	69	22.13	22.23	22.04	23.5	0.0
100	QPSK	135	138	22.03	22.14	22.00	23.5	0.0
100	QPSK	270	0	22.15	22.21	22.04	23.5	0.0
100	16QAM	1	1	21.81	21.72	21.65		
100	16QAM	1	1	21.51	21.58	21.52		
100	256QAM	1	1	20.15	20.28	20.20		
Channel				649668	656000	662334	Tune-up limit	MPR
Frequency (MHz)				3743.02	3840	3935.01	(dBm)	(dB)
80	QPSK	1	1	22.22	22.18	22.04	23.5	0.0
Channel				649334	656000	662668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	22.13	22.19	22.09	23.5	0.0
Channel				649000	656000	663000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	22.21	22.20	22.00	23.5	0.0
Channel				648668	656000	663334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	22.23	22.15	22.08	23.5	0.0
Channel				648334	656000	663668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	22.12	22.22	22.08	23.5	0.0
Channel				648000	656000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	22.24	22.21	22.06	23.5	0.0
Channel				647668	656000	664334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	22.18	22.17	22.01	23.5	0.0
Channel				647500	656000	664500	Tune-up limit	MPR
Frequency (MHz)				3712.5	3840	3967.5	(dBm)	(dB)
25	QPSK	1	1	22.19	22.15	22.06	23.5	0.0
Channel				647334	656000	664668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	22.21	22.26	22.07	23.5	0.0
Channel				647168	656000	664834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)
15	QPSK	1	1	22.20	22.19	22.02	23.5	0.0
Channel				647000	656000	665000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	QPSK	1	1	22.19	22.26	22.07	23.5	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				655000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	24.88	24.94	24.83	26.5	0.0
100	PI2 BPSK	1	137	24.84	24.89	24.81		
100	PI2 BPSK	1	271	24.99	24.94	24.72		
100	PI2 BPSK	135	0	24.53	24.56	24.51		
100	PI2 BPSK	135	69	24.75	24.88	24.76	26.5	0.0
100	PI2 BPSK	135	138	24.36	24.44	24.37	26.0	0.5
100	PI2 BPSK	270	0	24.32	24.44	24.32	26.5	0.0
100	QPSK	1	1	24.94	24.97	24.89		
100	QPSK	1	137	24.80	24.87	24.82		
100	QPSK	1	271	24.86	24.92	24.82		
100	QPSK	135	0	23.85	23.92	23.77	25.5	1.0
100	QPSK	135	69	24.79	24.91	24.83	26.5	0.0
100	QPSK	135	138	23.79	23.87	23.82	25.5	1.0
100	QPSK	270	0	23.82	23.94	23.86	25.5	1.0
100	16QAM	1	1	23.78	23.86	23.78		
100	16QAM	1	1	22.12	22.13	22.15		
100	256QAM	1	1	20.12	20.16	20.03		
Channel				649668	656000	662334	Tune-up limit	MPR
Frequency (MHz)				3743.02	3840	3935.01	(dBm)	(dB)
90	QPSK	1	1	24.83	24.92	24.85	26.5	0.0
Channel				649334	656000	662668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	24.87	24.86	24.80	26.5	0.0
Channel				649000	656000	663000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	24.89	24.83	24.78	26.5	0.0
Channel				648668	656000	663334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	24.84	24.82	24.76	26.5	0.0
Channel				648334	656000	663668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3952.02	(dBm)	(dB)
50	QPSK	1	1	24.83	24.92	24.83	26.5	0.0
Channel				648000	656000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	24.81	24.83	24.83	26.5	0.0
Channel				647668	656000	664334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	24.91	24.86	24.79	26.5	0.0
Channel				647500	656000	664500	Tune-up limit	MPR
Frequency (MHz)				3712.5	3840	3967.5	(dBm)	(dB)
25	QPSK	1	1	24.85	24.84	24.80	26.5	0.0
Channel				647334	656000	664668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	24.84	24.89	24.77	26.5	0.0
Channel				647168	656000	664834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)
15	QPSK	1	1	24.88	24.83	24.85	26.5	0.0
Channel				647000	656000	665000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	QPSK	1	1	24.79	24.91	24.85	26.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	22.08			23.5	0.0
100	PI2 BPSK	1	137	22.11				
100	PI2 BPSK	1	271	22.03				
100	PI2 BPSK	135	0	22.03				
100	PI2 BPSK	135	69	22.13			23.5	0.0
100	PI2 BPSK	135	138	21.98			23.5	0.0
100	PI2 BPSK	270	0	21.98			23.5	0.0
100	QPSK	1	1	22.14				
100	QPSK	1	137	22.09				
100	QPSK	1	271	22.11				
100	QPSK	135	0	21.96			23.5	0.0
100	QPSK	135	69	22.09			23.5	0.0
100	QPSK	135	138	21.96			23.5	0.0
100	QPSK	270	0	21.99			23.5	0.0
100	16QAM	1	1	21.71				
100	16QAM	1	1	21.59				
100	256QAM	1	1	20.03				
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	21.90	21.93	21.85	23.5	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	21.92	22.00	21.88	23.5	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	21.89	21.99	21.88	23.5	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	21.87	21.94	21.91	23.5	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	21.88	21.96	21.88	23.5	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.02	(dBm)	(dB)
40	QPSK	1	1	21.93	21.95	21.90	23.5	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	21.92	21.95	21.85	23.5	0.0
Channel				630874	633334	635834	Tune-up limit	MPR
Frequency (MHz)				3460.51	3500.01	3537.51	(dBm)	(dB)
25	QPSK	1	1	21.97	21.94	21.85	23.5	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	21.96	22.00	21.92	23.5	0.0
Channel				630500	633334	636168	Tune-up limit	MPR
Frequency (MHz)				3458.73	3500.01	3542.82	(dBm)	(dB)
15	QPSK	1	1	21.96	21.98	21.91	23.5	0.0
Channel				630334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	21.92	21.98	21.89	23.5	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)								
100	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		24.96			
100	PI2 BPSK	1	271		24.87		26.5	0.0
100	PI2 BPSK	135	0		24.80			
100	PI2 BPSK	135	69		24.50		26.0	0.5
100	PI2 BPSK	135	138		24.90		26.5	0.0
100	PI2 BPSK	270	0		24.40		26.0	0.5
100	QPSK	1	1		25.00			
100	QPSK	1	137		23.97		26.5	0.0
100	QPSK	1	271		24.93			
100	QPSK	135	0		23.91		25.5	1.0
100	QPSK	135	69		24.98		26.5	0.0
100	QPSK	135	138		23.85		25.5	1.0
100	QPSK	270	0		23.97			
100	16QAM	1	1		23.87		25.5	1.0
100	64QAM	1	1		22.15		24.0	2.5
100	256QAM	1	1		20.05		22.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3495	3500.01	3505.02	26.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3490.02	3500.01	3510	26.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	632000	633334	634334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3485.01	3500.01	3515.01	26.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3480	3500.01	3520.02	26.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3475.02	3500.01	3525	26.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633334	635668	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3470.01	3500.01	3530.01	26.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	631000	633334	636000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3465	3500.01	3535.02	26.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	630668	633334	636334	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	3462.51	3500.01	3537.51	26.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	630334	633334	636668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3460.02	3500.01	3540	26.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	630000	633334	637000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3455.01	3500.01	3545.01	26.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	629668	633334	637334	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3450	3500.01	3550	26.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		3750	3750		
100	PI2 BPSK	1	137		23.10		24.0	0.0
100	PI2 BPSK	1	271		23.26			
100	PI2 BPSK	135	0		23.10		24.0	0.0
100	PI2 BPSK	135	69		23.18		24.0	0.0
100	PI2 BPSK	135	138		23.31		24.0	0.0
100	PI2 BPSK	270	0		23.17		24.0	0.0
100	QPSK	1	1		23.16			
100	QPSK	1	137		23.23		24.0	0.0
100	QPSK	1	271		23.36			
100	QPSK	135	0		23.22		24.0	0.0
100	QPSK	135	69		23.24		24.0	0.0
100	QPSK	135	138		23.29		24.0	0.0
100	QPSK	270	0		23.15		24.0	0.0
100	16QAM	1	1		22.93		24.0	0.0
100	64QAM	1	1		22.83		24.0	0.0
100	256QAM	1	1		22.77		24.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3745.02	3750	3755.01	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3750	3760.02	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	648000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3735	3750	3765	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	647668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3730.02	3750	3770.01	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	647334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3725.01	3750	3775.02	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	647000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3750	3780	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	646668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3715.02	3750	3785.01	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	646334	650000	652668	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	3710.01	3750	3790.02	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	646000	650000	653000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3705	3750	3795	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	645668	650000	653334	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3700.52	3750	3795.51	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	645334	650000	653668	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3695	3750	3800	24.0	0.0

Part27O n78 PC2 Main PA Ant6

BW [MHz]	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		26.13			
100	PI2 BPSK	1	137		26.01		27.0	0.0
100	PI2 BPSK	1	271		25.93			
100	PI2 BPSK	135	0		25.68		26.5	0.5
100	PI2 BPSK	135	69		25.95		27.0	0.0
100	PI2 BPSK	135	138		25.48		26.5	0.5
100	PI2 BPSK	270	0		25.54			
100	QPSK	1	1		26.18		27.0	0.0
100	QPSK	1	137		26.04			
100	QPSK	1	271		25.04		26.0	1.0
100	QPSK	135	0		26.12		27.0	0.0
100	QPSK	135	69		25.02		26.0	1.0
100	QPSK	135	138		25.08			
100	QPSK	270	0		25.04		26.0	1.0
100	16QAM	1	1		22.83		24.5	2.5
100	64QAM	1	1		21.24		22.5	4.5
256QAM		1	1		21.24		22.5	4.5
Channel								
Frequency (MHz)								
				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3755.01	27.0	0.0
90	QPSK	1	1	26.09	26.12	26.06	27.0	0.0
Channel								
Frequency (MHz)								
				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
				3740.01	3750	3760.02	27.0	0.0
80	QPSK	1	1	26.04	26.08	26.06	27.0	0.0
Channel								
Frequency (MHz)								
				648668	650000	651000	Tune-up limit (dBm)	MPR (dB)
				3735	3750	3765	27.0	0.0
70	QPSK	1	1	26.00	26.06	25.96	27.0	0.0
Channel								
Frequency (MHz)								
				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
				3730.02	3750	3770.01	27.0	0.0
60	QPSK	1	1	26.08	26.14	26.02	27.0	0.0
Channel								
Frequency (MHz)								
				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
				3725.01	3750	3775.02	27.0	0.0
50	QPSK	1	1	26.07	26.08	26.07	27.0	0.0
Channel								
Frequency (MHz)								
				648600	650000	652000	Tune-up limit (dBm)	MPR (dB)
				3720	3750	3780	27.0	0.0
40	QPSK	1	1	26.02	26.06	25.95	27.0	0.0
Channel								
Frequency (MHz)								
				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
				3715.02	3750	3785.01	27.0	0.0
30	QPSK	1	1	26.02	26.10	25.99	27.0	0.0
Channel								
Frequency (MHz)								
				647650	650000	652600	Tune-up limit (dBm)	MPR (dB)
				3712.5	3750	3792.5	27.0	0.0
25	QPSK	1	1	26.09	26.00	25.96	27.0	0.0
Channel								
Frequency (MHz)								
				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
				3710.01	3750	3790.02	27.0	0.0
20	QPSK	1	1	26.00	26.10	26.03	27.0	0.0
Channel								
Frequency (MHz)								
				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
				3707.3	3750	3792.1	27.0	0.0
15	QPSK	1	1	26.05	26.00	26.07	27.0	0.0
Channel								
Frequency (MHz)								
				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
				3705	3750	3795	27.0	0.0
10	QPSK	1	1	26.05	26.04	25.98	27.0	0.0

Part27Q n78 Main PA Ant6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1		23.26		24.0	0.0	
100	PI/2 BPSK	1	137		23.21				
100	PI/2 BPSK	1	271		23.26				
100	PI/2 BPSK	135	0		23.03				
100	PI/2 BPSK	135	69		23.20		24.0	0.0	
100	PI/2 BPSK	135	138		23.09		24.0	0.0	
100	PI/2 BPSK	270	0		23.01				
100	QPSK	1	1		23.30		24.0	0.0	
100	QPSK	1	137		23.24				
100	QPSK	1	271		23.20				
100	QPSK	135	0		23.21				
100	QPSK	135	69		23.16		24.0	0.0	
100	QPSK	135	138		23.02		24.0	0.0	
100	QPSK	270	0		23.12		24.0	0.0	
100	16QAM	1	1		22.89		24.0	0.0	
100	64QAM	1	1		22.71		24.0	0.0	
100	256QAM	1	1		21.40		22.5	1.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	24.0	0.0	
90	QPSK	1	1	23.16	23.19	23.10			
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	24.0	0.0	
80	QPSK	1	1	23.14	23.19	23.10			
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	24.0	0.0	
70	QPSK	1	1	23.14	23.25	23.07			
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	24.0	0.0	
60	QPSK	1	1	23.18	23.17	23.04			
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	24.0	0.0	
50	QPSK	1	1	23.11	23.27	23.10			
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	24.0	0.0	
40	QPSK	1	1	23.17	23.24	23.08			
Channel				631000	633334	635968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	24.0	0.0	
30	QPSK	1	1	23.09	23.27	23.09			
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51	24.0	0.0	
25	QPSK	1	1	23.19	23.26	23.14			
Channel				630568	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	24.0	0.0	
20	QPSK	1	1	23.17	23.15	23.12			
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52	24.0	0.0	
15	QPSK	1	1	23.18	23.22	23.13			
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01	24.0	0.0	
10	QPSK	1	1	23.11	23.20	23.11			

Part27Q n78 PC2 Main PA Ant6									
BW [MHz]	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		26.20		27.0	0.0	
100	PI2 BPSK	1	137		26.08				
100	PI2 BPSK	1	271		26.10				
100	PI2 BPSK	135	0		25.74				
100	PI2 BPSK	135	69		26.16		26.5	0.5	
100	PI2 BPSK	135	138		25.60		26.5	0.5	
100	PI2 BPSK	270	0		25.63				
100	QPSK	1	1		26.23		27.0	0.0	
100	QPSK	1	137		26.17				
100	QPSK	1	271		26.05				
100	QPSK	135	0		25.12				
100	QPSK	135	69		26.18		26.0	1.0	
100	QPSK	135	138		25.07		26.0	1.0	
100	QPSK	270	0		25.17				
100	16QAM	1	1		24.96		26.0	1.0	
100	64QAM	1	1		22.83		24.5	2.5	
100	256QAM	1	1		21.02		22.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3496	3500.01	3505.02	27.0	0.0	
90	QPSK	1	1	26.10	26.12	26.04			
Channel				632968	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	27.0	0.0	
80	QPSK	1	1	26.02	26.18	26.08			
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	27.0	0.0	
70	QPSK	1	1	26.04	26.14	26.02			
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	27.0	0.0	
60	QPSK	1	1	26.02	26.19	26.02			
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	27.0	0.0	
50	QPSK	1	1	26.12	26.16	26.07			
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	27.0	0.0	
40	QPSK	1	1	26.07	26.17	25.99			
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	27.0	0.0	
30	QPSK	1	1	26.05	26.10	25.99			
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51	27.0	0.0	
25	QPSK	1	1	26.11	26.10	26.00			
Channel				630568	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	27.0	0.0	
20	QPSK	1	1	26.12	26.20	26.04			
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52	27.0	0.0	
15	QPSK	1	1	26.05	26.08	26.09			
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01	27.0	0.0	
10	QPSK	1	1	26.07	26.09	26.03			

Part270 n77 Main PA Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	20.70	20.77	20.73	22.5	0.0	
100	P12 BPSK	1	137	20.53	20.67	20.60			
100	P12 BPSK	1	271	20.53	20.56	20.51			
100	P12 BPSK	135	0	20.53	20.60	20.58			
100	P12 BPSK	135	69	20.64	20.71	20.59			
100	P12 BPSK	135	138	20.55	20.54	20.54	22.5	0.0	
100	P12 BPSK	270	0	20.63	20.56	20.56	22.5	0.0	
100	QPSK	1	1	20.69	20.61	20.75			
100	QPSK	1	137	20.56	20.66	20.61			
100	QPSK	1	271	20.59	20.68	20.63			
100	QPSK	135	0	20.63	20.70	20.68			
100	QPSK	135	69	20.72	20.76	20.69	22.5	0.0	
100	QPSK	135	138	20.52	20.65	20.60	22.5	0.0	
100	QPSK	270	0	20.61	20.68	20.53			
100	16QAM	1	1	20.53	20.62	20.68			
100	64QAM	1	1	20.57	20.66	20.59			
100	256QAM	1	1	19.16	19.29	19.25	21.0	1.5	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01 <td colspan="3"></td>			
90	QPSK	1	1	20.63	20.76	20.60	22.5	0.0	
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02 <td colspan="3"></td>			
80	QPSK	1	1	20.60	20.75	20.64	22.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945 <td colspan="3"></td>			
70	QPSK	1	1	20.59	20.67	20.70	22.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01 <td colspan="3"></td>			
60	QPSK	1	1	20.58	20.68	20.70	22.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02 <td colspan="3"></td>			
50	QPSK	1	1	20.66	20.76	20.65	22.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960 <td colspan="3"></td>			
40	QPSK	1	1	20.61	20.69	20.64	22.5	0.0	
Channel				647668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01 <td colspan="3"></td>			
30	QPSK	1	1	20.54	20.66	20.62	22.5	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5 <td colspan="3"></td>			
25	QPSK	1	1	20.57	20.67	20.67	22.5	0.0	
Channel				647234	656000	665668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02 <td colspan="3"></td>			
20	QPSK	1	1	20.62	20.75	20.63	22.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51 <td colspan="3"></td>			
15	QPSK	1	1	20.59	20.70	20.72	22.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975 <td colspan="3"></td>			
10	QPSK	1	1	20.65	20.71	20.69	22.5	0.0	

Part270 n77 PC2 Main PA Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	660000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	23.74	23.78	23.69	25.5	0.0	
100	P12 BPSK	1	137	23.60	23.73	23.68			
100	P12 BPSK	1	271	23.61	23.68	23.55			
100	P12 BPSK	135	0	23.20	23.32	23.26			
100	P12 BPSK	135	69	23.69	23.75	23.61			
100	P12 BPSK	135	138	23.20	23.27	23.23	25.0	0.5	
100	P12 BPSK	270	0	23.18	23.26	23.22	25.5	0.0	
100	QPSK	1	1	23.77	23.62	23.72			
100	QPSK	1	137	23.71	23.75	23.67			
100	QPSK	1	271	23.59	23.67	23.52			
100	QPSK	135	0	22.84	22.73	22.84	24.5	1.0	
100	QPSK	135	69	23.63	23.77	23.68	25.0	0.0	
100	QPSK	135	138	22.67	22.70	22.57	24.5	1.0	
100	QPSK	270	0	22.62	22.74	22.64			
100	16QAM	1	1	22.84	22.89	22.59			
100	64QAM	1	1	21.12	21.17	21.21	23.0	2.5	
100	256QAM	1	1	19.26	19.34	19.30	21.0	4.5	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3930.01			
90	QPSK	1	1	23.65	23.67	23.59	25.5	0.0	
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.64	23.74	23.67	25.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.70	23.70 <td>23.65</td> <td>25.5</td> <td>0.0</td> <td></td>	23.65	25.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.65	23.75	23.60	25.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3726.01	3840	3955.02			
50	QPSK	1	1	23.71	23.69	23.62	25.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.63	23.78	23.65	25.5	0.0	
Channel				647668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	23.67	23.68	23.63	25.5	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	23.68	23.70	23.57	25.5	0.0	
Channel				647234	656000	665668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.70	23.78	23.64	25.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	23.64	23.71	23.57	25.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.64	23.74	23.61	25.5	0.0	

Part27Q n77 Main PA Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3500.01					
100	P12 BPSK	1	1		20.94		22.5	0.0	
100	P12 BPSK	1	137		20.87				
100	P12 BPSK	1	271		20.79				
100	P12 BPSK	135	0		20.80				
100	P12 BPSK	135	69		20.87				
100	P12 BPSK	135	138		20.69		22.5	0.0	
100	P12 BPSK	270	0		20.87		22.5	0.0	
100	QPSK	1	1		20.98		22.5	0.0	
100	QPSK	1	137		20.85				
100	QPSK	1	271		20.80				
100	QPSK	135	0		20.87				
100	QPSK	135	69		20.53				
100	QPSK	135	138		20.80		22.5	0.0	
100	QPSK	270	0		20.87		22.5	0.0	
100	16QAM	1	1		20.57		22.5	0.0	
100	64QAM	1	1		20.63		22.5	0.0	
100	256QAM	1	1		19.25		21.0	1.5	
Channel				633000 <th>633334<th>633668<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th></th>	633334 <th>633668<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th>	633668 <th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th>	Tune-up limit (dBm) <th>MPR (dB)<th></th></th>	MPR (dB) <th></th>	
Frequency (MHz)				3495 <th>3500.01<th>3505.02<th><th><th></th></th></th></th></th>	3500.01 <th>3505.02<th><th><th></th></th></th></th>	3505.02 <th><th><th></th></th></th>	<th><th></th></th>	<th></th>	
90	QPSK	1	1	20.90	20.95	20.85	22.5	0.0	
Channel				632668 <th>633334<th>634000<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th></th>	633334 <th>634000<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th>	634000 <th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th>	Tune-up limit (dBm) <th>MPR (dB)<th></th></th>	MPR (dB) <th></th>	
Frequency (MHz)				3490.02 <th>3500.01<th>3510<th><th><th></th></th></th></th></th>	3500.01 <th>3510<th><th><th></th></th></th></th>	3510 <th><th><th></th></th></th>	<th><th></th></th>	<th></th>	
80	QPSK	1	1	20.84	20.77	20.78	22.5	0.0	
Channel				632334 <th>633334<th>634334<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th></th>	633334 <th>634334<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th>	634334 <th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th>	Tune-up limit (dBm) <th>MPR (dB)<th></th></th>	MPR (dB) <th></th>	
Frequency (MHz)				3485.01 <th>3500.01<th>3515.01<th><th><th></th></th></th></th></th>	3500.01 <th>3515.01<th><th><th></th></th></th></th>	3515.01 <th><th><th></th></th></th>	<th><th></th></th>	<th></th>	
70	QPSK	1	1	20.81	20.88	20.74	22.5	0.0	
Channel				632000 <th>633334<th>634668<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th></th>	633334 <th>634668<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th>	634668 <th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th>	Tune-up limit (dBm) <th>MPR (dB)<th></th></th>	MPR (dB) <th></th>	
Frequency (MHz)				3480 <th>3500.01<th>3520.02<th><th><th></th></th></th></th></th>	3500.01 <th>3520.02<th><th><th></th></th></th></th>	3520.02 <th><th><th></th></th></th>	<th><th></th></th>	<th></th>	
60	QPSK	1	1	20.87	20.69	20.86	22.5	0.0	
Channel				631968 <th>633334<th>635000<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th></th>	633334 <th>635000<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th>	635000 <th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th>	Tune-up limit (dBm) <th>MPR (dB)<th></th></th>	MPR (dB) <th></th>	
Frequency (MHz)				3475.02 <th>3500.01<th>3525<th><th><th></th></th></th></th></th>	3500.01 <th>3525<th><th><th></th></th></th></th>	3525 <th><th><th></th></th></th>	<th><th></th></th>	<th></th>	
50	QPSK	1	1	20.83	20.86	20.81	22.5	0.0	
Channel				631534 <th>633334<th>635334<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th></th>	633334 <th>635334<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th>	635334 <th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th>	Tune-up limit (dBm) <th>MPR (dB)<th></th></th>	MPR (dB) <th></th>	
Frequency (MHz)				3470.03 <th>3500.01<th>3530.01<th><th><th></th></th></th></th></th>	3500.01 <th>3530.01<th><th><th></th></th></th></th>	3530.01 <th><th><th></th></th></th>	<th><th></th></th>	<th></th>	
40	QPSK	1	1	20.79	20.87	20.74	22.5	0.0	
Channel				631100 <th>633334<th>635668<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th></th>	633334 <th>635668<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th>	635668 <th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th>	Tune-up limit (dBm) <th>MPR (dB)<th></th></th>	MPR (dB) <th></th>	
Frequency (MHz)				3465 <th>3500.01<th>3535.02<th><th><th></th></th></th></th></th>	3500.01 <th>3535.02<th><th><th></th></th></th></th>	3535.02 <th><th><th></th></th></th>	<th><th></th></th>	<th></th>	
30	QPSK	1	1	20.81	20.83	20.77	22.5	0.0	
Channel				630834 <th>633334<th>635834<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th></th>	633334 <th>635834<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th>	635834 <th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th>	Tune-up limit (dBm) <th>MPR (dB)<th></th></th>	MPR (dB) <th></th>	
Frequency (MHz)				3452.51 <th>3500.01<th>3557.51<th><th><th></th></th></th></th></th>	3500.01 <th>3557.51<th><th><th></th></th></th></th>	3557.51 <th><th><th></th></th></th>	<th><th></th></th>	<th></th>	
25	QPSK	1	1	20.80	20.80	20.77	22.5	0.0	
Channel				630668 <th>633334<th>636000<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th></th>	633334 <th>636000<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th>	636000 <th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th>	Tune-up limit (dBm) <th>MPR (dB)<th></th></th>	MPR (dB) <th></th>	
Frequency (MHz)				3460.02 <th>3500.01<th>3560<th><th><th></th></th></th></th></th>	3500.01 <th>3560<th><th><th></th></th></th></th>	3560 <th><th><th></th></th></th>	<th><th></th></th>	<th></th>	
20	QPSK	1	1	20.84	20.84	20.83	22.5	0.0	
Channel				630500 <th>633334<th>636168<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th></th>	633334 <th>636168<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th>	636168 <th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th>	Tune-up limit (dBm) <th>MPR (dB)<th></th></th>	MPR (dB) <th></th>	
Frequency (MHz)				3457.5 <th>3500.01<th>3562.02<th><th><th></th></th></th></th></th>	3500.01 <th>3562.02<th><th><th></th></th></th></th>	3562.02 <th><th><th></th></th></th>	<th><th></th></th>	<th></th>	
15	QPSK	1	1	20.91	20.84	20.83	22.5	0.0	
Channel				630334 <th>633334<th>636334<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th></th>	633334 <th>636334<th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th></th>	636334 <th>Tune-up limit (dBm)<th>MPR (dB)<th></th></th></th>	Tune-up limit (dBm) <th>MPR (dB)<th></th></th>	MPR (dB) <th></th>	
Frequency (MHz)				3455.01 <th>3500.01<th>3565.01<th><th><th></th></th></th></th></th>	3500.01 <th>3565.01<th><th><th></th></th></th></th>	3565.01 <th><th><th></th></th></th>	<th><th></th></th>	<th></th>	
10	QPSK	1	1	20.90	20.91	20.81	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				633334	633334		3500.01	
Frequency (MHz)				23.80				
100	PI2 BPSK	1	1		23.80			
100	PI2 BPSK	1	137		23.66		25.5	0.0
100	PI2 BPSK	1	271		23.63			
100	PI2 BPSK	135	0		23.32		25.0	0.5
100	PI2 BPSK	135	69		23.73		25.5	0.0
100	PI2 BPSK	135	138		23.24		25.0	0.5
100	PI2 BPSK	270	0		23.32			
100	QPSK	1	1		23.83			
100	QPSK	1	137		23.73		25.5	0.0
100	QPSK	1	271		23.65			
100	QPSK	135	0		22.71		24.5	1.0
100	QPSK	135	69		23.78		25.5	0.0
100	QPSK	135	138		22.74		24.5	1.0
100	QPSK	270	0		22.77			
100	16QAM	1	1		22.57		24.5	1.0
100	64QAM	1	1		21.30		23.0	2.5
100	256QAM	1	1		19.16		21.0	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3405	3500.01	3505.02		
90	QPSK	1	1		23.65	23.90	23.74	25.5 0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3480.02	3500.01	3510		
80	QPSK	1	1		23.65	23.72	23.73	25.5 0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3448.01	3500.01	3515.01		
70	QPSK	1	1		23.73	23.68	23.71	25.5 0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1		23.76	23.79	23.68	25.5 0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3472.02	3500.01	3525		
50	QPSK	1	1		23.69	23.74	23.71	25.5 0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1		23.74	23.69	23.68	25.5 0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1		23.67	23.70	23.68	25.5 0.0
Channel				630634	633334	635834	Tune-up limit (dBm)	MPR
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1		23.73	23.68	23.63	25.5 0.0
Channel				630268	633334	636000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1		23.75	23.76	23.63	25.5 0.0
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1		23.69	23.68	23.67	25.5 0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1		23.70	23.77	23.64	25.5 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	650000	650000	3750 3750 3750	
Frequency (MHz)				21.96				
100	PI2 BPSK	1	1		21.96			
100	PI2 BPSK	1	137		21.93		23.0	0.0
100	PI2 BPSK	1	271		21.70			
100	PI2 BPSK	135	0		21.77		23.0	0.0
100	PI2 BPSK	135	69		21.87		23.0	0.0
100	PI2 BPSK	135	138		21.70		23.0	0.0
100	PI2 BPSK	270	0		21.83			
100	QPSK	1	1		21.99			
100	QPSK	1	137		21.82		23.0	0.0
100	QPSK	1	271		21.95			
100	QPSK	135	0		21.83		23.0	0.0
100	QPSK	135	69		21.94		23.0	0.0
100	QPSK	135	138		21.80		23.0	0.0
100	QPSK	270	0		21.85			
100	16QAM	1	1		21.78		23.0	0.0
100	64QAM	1	1		21.45		23.0	0.0
100	256QAM	1	1		20.47		21.5	1.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1		21.69	21.93	21.84	23.0 0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1		21.79	21.89	21.78	23.0 0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1		21.90	21.94	21.79	23.0 0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1		21.87	21.88	21.77	23.0 0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1		21.83	21.87	21.83	23.0 0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1		21.82	21.91	21.73	23.0 0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1		21.82	21.94	21.72	23.0 0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1		21.87	21.88	21.84	23.0 0.0
Channel				647234	650000	652668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1		21.81	21.90	21.72	23.0 0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1		21.69	21.84	21.72	23.0 0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1		21.83	21.85	21.77	23.0 0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		24.86			
100	PI2 BPSK	1	137		24.76		26.0	0.0
100	PI2 BPSK	1	271		24.79			
100	PI2 BPSK	135	0		24.40		25.5	0.5
100	PI2 BPSK	135	69		24.76		26.0	0.0
100	PI2 BPSK	135	138		24.28		25.5	0.5
100	PI2 BPSK	270	0		24.39			
100	QPSK	1	1		24.54			
100	QPSK	1	137		24.85		26.0	0.0
100	QPSK	1	271		24.78			
100	QPSK	135	0		23.79		25.0	1.0
100	QPSK	135	69		24.88		26.0	0.0
100	QPSK	135	138		23.77		25.0	1.0
100	QPSK	270	0		23.87			
100	16QAM	1	1		23.70		25.0	1.0
100	64QAM	1	1		21.99		23.5	2.5
100	256QAM	1	1		20.48		21.5	4.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1		24.76	24.83	24.71	26.0 0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1		24.86	24.82	24.69	26.0 0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1		24.87	24.90	24.71	26.0 0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1		24.82	24.81	24.77	26.0 0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1		24.77	24.88	24.70	26.0 0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1		24.80	24.90	24.68	26.0 0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1		24.84	24.89	24.67	26.0 0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1		24.83	24.82	24.74	26.0 0.0
Channel				647234	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1		24.88	24.82	24.72	26.0 0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.82	3750	3792.51		
15	QPSK	1	1		24.87	24.80	24.71	26.0 0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1		24.87	24.83	24.68	26.0 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				633334			23.0	0.0	
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1		22.12				
100	PI/2 BPSK	1	137		22.15				
100	PI/2 BPSK	1	271		21.97				
100	PI/2 BPSK	135	0		22.03		23.0	0.0	
100	PI/2 BPSK	135	69		22.14		23.0	0.0	
100	PI/2 BPSK	135	138		21.89		23.0	0.0	
100	PI/2 BPSK	270	0		22.04				
100	QPSK	1	1		22.17		23.0	0.0	
100	QPSK	1	137		22.06				
100	QPSK	1	271		22.18		23.0	0.0	
100	QPSK	135	0		22.02		23.0	0.0	
100	QPSK	135	69		22.13		23.0	0.0	
100	QPSK	135	138		22.01		23.0	0.0	
100	QPSK	270	0		22.04				
100	16QAM	1	1		21.97		23.0	0.0	
100	64QAM	1	1		21.83		23.0	0.0	
100	256QAM	1	1		20.61		21.5	1.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		21.97	22.13	22.04	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		22.01	22.05	22.01	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		21.95	22.04	22.01	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		21.98	22.03	22.05	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		22.00	22.09	21.99	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		22.04	22.05	22.02	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		21.98	22.07	21.99	23.0	0.0
Channel				630834	633334	635934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1		22.05	22.06	22.03	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		21.97	22.13	22.00	23.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1		21.96	22.10	22.09	23.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		22.02	22.12	22.03	23.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334			26.0	0.0	
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1		24.73				
100	PI/2 BPSK	1	137		24.70				
100	PI/2 BPSK	1	271		24.63				
100	PI/2 BPSK	135	0		24.29		25.5	0.5	
100	PI/2 BPSK	135	69		24.67		26.0	0.0	
100	PI/2 BPSK	135	138		24.27		25.5	0.5	
100	PI/2 BPSK	270	0		24.27				
100	QPSK	1	1		24.79		26.0	0.0	
100	QPSK	1	137		24.72				
100	QPSK	1	271		24.65		26.0	0.0	
100	QPSK	135	0		23.72		25.0	1.0	
100	QPSK	135	69		24.71		26.0	0.0	
100	QPSK	135	138		23.78		25.0	1.0	
100	QPSK	270	0		23.78				
100	16QAM	1	1		23.72		25.0	1.0	
100	64QAM	1	1		22.26		23.5	2.5	
100	256QAM	1	1		20.61		21.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		24.62	24.70	24.57	26.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		24.61	24.68	24.54	26.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		24.65	24.70	24.63	26.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		24.67	24.66	24.61	26.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		24.61	24.74	24.54	26.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		24.67	24.67	24.55	26.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		24.66	24.73	24.57	26.0	0.0
Channel				630834	633334	635934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1		24.68	24.65	24.63	26.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		24.67	24.68	24.59	26.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1		24.65	24.71	24.57	26.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		24.57	24.64	24.54	26.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166800	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)
Channel				834	836.5	839	25.5	0.0
Frequency (MHz)				24.48	24.57	24.51		
20	PI/2 BPSK	1	1	24.41	24.51	24.38		
20	PI/2 BPSK	1	53	24.33	24.46	24.39		
20	PI/2 BPSK	1	104	24.16	24.21	24.15	25.0	0.5
20	PI/2 BPSK	50	0	24.54	24.59	24.51	25.5	0.0
20	PI/2 BPSK	50	28	24.12	24.21	24.17	25.0	0.5
20	PI/2 BPSK	50	56	24.13	24.18	24.10		
20	PI/2 BPSK	100	0	24.52	24.63	24.48	25.5	0.0
20	QPSK	1	1	24.43	24.53	24.41		
20	QPSK	1	53	24.37	24.46	24.33		
20	QPSK	1	104	23.65	23.71	23.61		
20	QPSK	50	0	24.56	24.61	24.54	24.5	1.0
20	QPSK	50	28	23.49	23.62	23.53	25.5	0.0
20	QPSK	50	56	23.60	23.66	23.52	24.5	1.0
20	QPSK	100	0	23.28	23.34	23.31		
20	16QAM	1	1	21.84	21.93	21.83	24.5	1.0
20	64QAM	1	1	20.66	20.69	20.61	23.0	2.5
20	256QAM	1	1	166300	167300	168300	21.0	4.5
Channel				831.5	836.5	841.5	25.5	0.0
Frequency (MHz)				24.48	24.53	24.44		
15	QPSK	1	1	165800	167300	168800	25.5	0.0
Channel				829	836.5	844		
Frequency (MHz)				24.55	24.59	24.40	25.5	0.0
10	QPSK	1	1	165300	167300	169300	25.5	0.0
Channel				826.5	836.5	846.5		
Frequency (MHz)				24.50	24.57	24.49	25.5	0.0
5	QPSK	1	1					