



Full&Default Power Mode Main PA

GSM850 Ant0 Default								
GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	726	1891	251		726	1891	251	
	854.2	858.4	858.8		854.2	858.4	858.8	
GSM 1 Tx slot	33.17	33.19	33.08	34.00	24.17	24.19	24.08	25.00
GPRS 1 Tx slot	33.15	33.18	33.07	34.00	24.15	24.18	24.07	25.00
GPRS 2 Tx slots	32.12	32.23	32.07	33.50	26.12	26.23	26.07	27.50
GPRS 3 Tx slots	30.32	30.44	30.43	31.50	26.06	26.18	26.17	27.24
GPRS 4 Tx slots	29.26	29.32	29.12	30.50	26.26	26.32	26.12	27.50
EDGE 1 Tx slot	27.32	27.42	27.43	28.50	18.32	18.42	18.43	19.50
EDGE 2 Tx slots	26.17	26.12	26.29	27.00	20.17	20.12	20.29	21.00
EDGE 3 Tx slots	23.86	23.92	23.88	25.00	19.60	19.66	19.62	20.74
EDGE 4 Tx slots	22.40	22.50	22.52	23.50	19.40	19.50	19.52	20.50

GSM1900 Ant0 Default								
GSM1900 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	612	661	810		612	661	810	
	1520.2	1530	1520.8		1520.2	1530	1520.8	
GSM 1 Tx slot	29.55	29.53	29.46	30.50	20.55	20.53	20.45	21.50
GPRS 1 Tx slot	29.53	29.56	29.45	30.50	20.53	20.56	20.45	21.50
GPRS 2 Tx slots	28.48	28.61	28.44	29.50	22.48	22.61	22.44	23.50
GPRS 3 Tx slots	26.40	26.45	26.30	27.50	22.14	22.19	22.04	23.24
GPRS 4 Tx slots	25.29	25.33	25.13	26.50	22.29	22.33	22.13	23.50
EDGE 1 Tx slot	25.42	25.31	25.24	26.50	16.42	16.31	16.24	17.50
EDGE 2 Tx slots	24.27	23.89	23.91	25.00	18.27	17.89	17.91	19.00
EDGE 3 Tx slots	22.26	21.83	21.84	23.00	18.00	17.57	17.58	18.74
EDGE 4 Tx slots	20.92	20.80	20.76	22.00	17.92	17.80	17.76	19.00

Band TX Channel Rx Channel Frequency (MHz)	WCDMA II Ant0 Default			Tune-up Limit (dBm)	WCDMA V Ant0 Default			Tune-up Limit (dBm)
	9262	9400	9538		4132	4162	4233	
	1892.4	1898	1897.6		1892.4	1898	1897.6	
3GPP Rel 99 RMC 12.2kops	22.54	22.61	22.52	24.00	22.78	22.88	22.83	24.00
3GPP Rel 99	22.57	22.65	22.62	24.00	22.85	22.93	22.88	24.00
3GPP Rel 6 HSDPA Subtest-1	21.56	21.71	21.59	23.00	21.87	21.94	21.80	23.00
3GPP Rel 6 HSDPA Subtest-2	21.56	21.57	21.54	23.00	21.76	21.81	21.75	23.00
3GPP Rel 6 HSDPA Subtest-3	21.08	21.19	21.11	22.50	21.33	21.36	21.34	22.50
3GPP Rel 6 HSDPA Subtest-4	21.00	21.08	21.06	22.50	21.13	21.28	21.24	22.50
3GPP Rel 6 DCH-HSDPA Subtest-1	21.55	21.65	21.57	23.00	21.81	21.80	21.82	23.00
3GPP Rel 6 DCH-HSDPA Subtest-2	21.44	21.63	21.47	23.00	21.72	21.89	21.73	23.00
3GPP Rel 6 DCH-HSDPA Subtest-3	20.99	21.17	21.06	22.50	21.25	21.38	21.30	22.50
3GPP Rel 6 DCH-HSDPA Subtest-4	20.97	21.07	20.98	22.50	21.16	21.22	21.11	22.50
3GPP Rel 6 HSUPA Subtest-1	21.44	21.56	21.54	23.00	21.68	21.72	21.73	23.00
3GPP Rel 6 HSUPA Subtest-2	19.57	19.69	19.58	21.00	19.72	19.85	19.83	21.00
3GPP Rel 6 HSUPA Subtest-3	20.70	20.73	20.68	22.00	20.96	20.86	20.95	22.00
3GPP Rel 6 HSUPA Subtest-4	19.48	19.60	19.47	21.00	19.69	19.83	19.65	21.00
3GPP Rel 6 HSUPA Subtest-5	21.47	21.64	21.52	23.00	21.66	21.69	21.62	23.00
3GPP Rel 7 HSPA+ (HSPA) Subtest-1	19.11	19.31	19.13	20.50	19.35	19.52	19.37	20.50



Band 7 Ant1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2050	2100	2150			
Frequency (MHz)				2510	2535	2590			
20	QPSK	1	0	22.93	23.04	22.97	24	0	
20	QPSK	1	49	22.91	22.96	22.86			
20	QPSK	1	99	22.76	22.91	22.77			
20	QPSK	50	0	21.91	22.01	21.87	23	1	
20	QPSK	50	24	21.85	21.95	21.85			
20	QPSK	50	50	21.90	21.90	21.77			
20	QPSK	100	0	21.86	21.96	21.90			
20	16QAM	1	0	21.99	22.07	21.98	23	1	
20	16QAM	1	49	21.84	22.01	21.84			
20	16QAM	1	99	21.85	21.97	21.93			
20	16QAM	50	0	21.03	21.09	21.03	22	2	
20	16QAM	50	24	20.98	21.01	20.93			
20	16QAM	50	50	21.01	21.05	21.02			
20	16QAM	100	0	20.87	21.01	20.89			
20	64QAM	1	0	20.88	21.03	20.93	22	2	
20	64QAM	1	49	20.91	20.97	20.88			
20	64QAM	1	99	20.86	20.93	20.80			
20	64QAM	50	0	19.96	20.04	19.96	21	3	
20	64QAM	50	24	19.91	19.95	19.83			
20	64QAM	50	50	19.97	20.00	19.91			
20	64QAM	100	0	19.93	19.98	19.89			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.82	22.93	22.89	24	0	
15	QPSK	1	37	22.80	22.82	22.77			
15	QPSK	1	74	22.82	22.76	22.84			
15	QPSK	36	0	21.80	21.86	21.77	23	1	
15	QPSK	36	20	21.78	21.91	21.76			
15	QPSK	36	39	21.71	21.79	21.67			
15	QPSK	75	0	21.72	21.82	21.77			
15	16QAM	1	0	21.95	21.98	21.89	23	1	
15	16QAM	1	37	21.87	21.87	21.85			
15	16QAM	1	74	21.81	21.91	21.82			
15	16QAM	36	0	20.91	21.03	20.91	22	2	
15	16QAM	36	20	20.89	20.91	20.89			
15	16QAM	36	39	20.89	21.01	20.95			
15	16QAM	75	0	20.75	20.95	20.83			
15	64QAM	1	0	20.89	20.91	20.88	22	2	
15	64QAM	1	37	20.83	20.90	20.82			
15	64QAM	1	74	20.78	20.79	20.72			
15	64QAM	36	0	19.85	19.90	19.82	21	3	
15	64QAM	36	20	19.83	19.91	19.73			
15	64QAM	36	39	19.90	19.96	19.83			
15	64QAM	75	0	19.79	19.85	19.81			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.81	22.94	22.92	24	0	
10	QPSK	1	25	22.77	22.93	22.74			
10	QPSK	1	49	22.84	22.77	22.67			
10	QPSK	25	0	21.86	21.92	21.76	23	1	
10	QPSK	25	12	21.73	21.90	21.81			
10	QPSK	25	25	21.71	21.77	21.70			
10	QPSK	50	0	21.74	21.91	21.84	23	1	
10	16QAM	1	0	21.92	22.01	21.92			
10	16QAM	1	25	21.86	21.98	21.80			
10	16QAM	1	49	21.77	21.87	21.86			
10	16QAM	25	0	20.85	21.01	20.85	22	2	
10	16QAM	25	12	20.89	20.86	20.86			
10	16QAM	25	25	20.97	20.93	20.97			
10	16QAM	50	0	20.74	20.93	20.80			
10	64QAM	1	0	20.92	20.94	20.83	22	2	
10	64QAM	1	25	20.84	20.91	20.76			
10	64QAM	1	49	20.83	20.90	20.73			
10	64QAM	25	0	19.91	19.93	19.83	21	3	
10	64QAM	25	12	19.84	19.83	19.78			
10	64QAM	25	25	19.83	19.87	19.85			
10	64QAM	50	0	19.81	19.84	19.78			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.85	22.96	22.93	24	0	
5	QPSK	1	12	22.87	22.92	22.76			
5	QPSK	1	24	22.88	22.86	22.73			
5	QPSK	12	0	21.82	21.91	21.75	23	1	
5	QPSK	12	7	21.81	21.83	21.74			
5	QPSK	12	13	21.71	21.78	21.63			
5	QPSK	25	0	21.72	21.85	21.86			
5	16QAM	1	0	21.94	21.97	21.89	23	1	
5	16QAM	1	12	21.84	21.87	21.86			
5	16QAM	1	24	21.72	21.91	21.85			
5	16QAM	12	0	20.93	21.01	20.90	22	2	
5	16QAM	12	7	20.93	20.96	20.78			
5	16QAM	12	13	20.90	20.91	20.96			
5	16QAM	25	0	20.73	20.94	20.83			
5	64QAM	1	0	20.86	20.92	20.85	22	2	
5	64QAM	1	12	20.87	20.94	20.78			
5	64QAM	1	24	20.78	20.82	20.75			
5	64QAM	12	0	19.90	19.94	19.81	21	3	
5	64QAM	12	7	19.82	19.82	19.73			
5	64QAM	12	13	19.82	19.82	19.82			
5	64QAM	25	0	19.86	19.87	19.79			



Band 38 Main PA Ant4

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Co./Freq, Power Middle Co./Freq, Power High Co./Freq, Tune-up limit (dBm), MPR (dB). Contains data for Band 38 Main PA Ant4 across various modulation schemes and power levels.

Band 41 Main PA Ant4

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Co./Freq, Power Middle Co./Freq, Power High Co./Freq, Tune-up limit (dBm), MPR (dB). Contains data for Band 41 Main PA Ant4 across various modulation schemes and power levels.

Band 41 HPUE Main PA Ant4

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Co./Freq, Power Middle Co./Freq, Power High Co./Freq, Tune-up limit (dBm), MPR (dB). Contains data for Band 41 HPUE Main PA Ant4 across various modulation schemes and power levels.



Band 42 FCC Part27Q Default

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel								
Frequency (MHz)								
20	42190	42590	42990	24	0			
20	3460	3500	3540					
20	22.26	22.33	22.21					
20	QPSK	1	49	22.21	22.25	22.14	23	1
20	QPSK	1	99	22.16	22.20	22.06		
20	QPSK	50	0	21.35	21.35	21.25		
20	QPSK	50	24	21.29	21.32	21.17	22	2
20	QPSK	50	50	21.23	21.27	21.13		
20	QPSK	100	0	21.24	21.33	21.28		
20	16QAM	1	0	21.15	21.30	21.24	23	1
20	16QAM	1	49	21.10	21.24	21.16		
20	16QAM	1	99	21.07	21.20	21.14		
20	16QAM	50	0	20.31	20.37	20.32	22	2
20	16QAM	50	24	20.22	20.29	20.17		
20	16QAM	50	50	20.25	20.33	20.29		
20	16QAM	100	0	20.23	20.34	20.29	22	2
20	64QAM	1	0	20.06	20.13	20.01		
20	64QAM	1	49	20.01	20.07	20.00		
20	64QAM	1	99	20.05	20.13	20.09	21	3
20	64QAM	50	0	19.22	19.33	19.23		
20	64QAM	50	24	19.14	19.24	19.13		
20	64QAM	50	50	19.15	19.20	19.13	21	3
20	64QAM	100	0	19.16	19.29	19.23		
20	64QAM	100	0	19.16	19.29	19.23		
Channel								
Frequency (MHz)								
15	42165	42590	43015	24	0			
15	3457.5	3500	3542.5					
15	QPSK	1	0			22.20	22.28	22.18
15	QPSK	1	37	22.13	22.12	22.00	23	1
15	QPSK	1	74	22.02	22.05	22.06		
15	QPSK	36	0	21.26	21.35	21.18		
15	QPSK	36	20	21.16	21.22	21.09	23	1
15	QPSK	36	39	21.18	21.20	21.03		
15	QPSK	75	0	21.20	21.20	21.16		
15	16QAM	1	0	21.10	21.21	21.14	23	1
15	16QAM	1	37	21.00	21.20	21.07		
15	16QAM	1	74	21.01	21.07	21.01		
15	16QAM	36	0	20.26	20.30	20.20	22	2
15	16QAM	36	20	20.13	20.19	20.03		
15	16QAM	36	39	20.14	20.19	20.15		
15	16QAM	75	0	20.11	20.28	20.18	22	2
15	64QAM	1	0	20.15	20.27	20.11		
15	64QAM	1	37	20.10	20.22	20.07		
15	64QAM	1	74	20.15	20.19	20.08	21	3
15	64QAM	36	0	19.10	19.23	19.11		
15	64QAM	36	20	19.10	19.15	19.09		
15	64QAM	36	39	19.03	19.15	19.06	21	3
15	64QAM	75	0	19.11	19.24	19.09		
15	64QAM	75	0	19.11	19.24	19.09		
Channel								
Frequency (MHz)								
10	42140	42590	43040	24	0			
10	3455	3500	3545					
10	QPSK	1	0			22.19	22.21	22.14
10	QPSK	1	25	22.11	22.15	22.02	23	1
10	QPSK	1	49	22.01	22.14	22.02		
10	QPSK	25	0	21.22	21.26	21.13		
10	QPSK	25	12	21.24	21.21	21.04	23	1
10	QPSK	25	25	21.15	21.19	21.05		
10	QPSK	50	0	21.15	21.19	21.16		
10	16QAM	1	0	21.03	21.26	21.18	23	1
10	16QAM	1	25	21.04	21.16	21.11		
10	16QAM	1	49	21.03	21.13	21.04		
10	16QAM	25	0	20.17	20.29	20.26	22	2
10	16QAM	25	12	20.12	20.22	20.08		
10	16QAM	25	25	20.15	20.20	20.22		
10	16QAM	50	0	20.15	20.21	20.20	22	2
10	64QAM	1	0	20.18	20.28	20.10		
10	64QAM	1	25	20.06	20.02	20.06		
10	64QAM	1	49	20.07	20.25	20.06	21	3
10	64QAM	25	0	19.16	19.27	19.13		
10	64QAM	25	12	19.02	19.18	19.09		
10	64QAM	25	25	19.07	19.12	19.08	21	3
10	64QAM	50	0	19.12	19.18	19.15		
10	64QAM	50	0	19.12	19.18	19.15		
Channel								
Frequency (MHz)								
5	42115	42590	43065	24	0			
5	3452.5	3500	3542.5					
5	QPSK	1	0			22.14	22.29	22.09
5	QPSK	1	12	22.12	22.16	22.04	23	1
5	QPSK	1	24	22.14	22.17	22.07		
5	QPSK	12	0	21.29	21.33	21.20		
5	QPSK	12	7	21.23	21.19	21.06	23	1
5	QPSK	12	13	21.08	21.13	21.09		
5	QPSK	25	0	21.13	21.20	21.14		
5	16QAM	1	0	21.08	21.21	21.18	23	1
5	16QAM	1	12	21.06	21.30	21.19		
5	16QAM	1	24	21.03	21.11	21.04		
5	16QAM	12	0	20.23	20.27	20.24	22	2
5	16QAM	12	7	20.08	20.23	20.04		
5	16QAM	12	13	20.16	20.22	20.24		
5	16QAM	25	0	20.11	20.29	20.20	22	2
5	64QAM	1	0	20.08	20.18	20.07		
5	64QAM	1	12	20.14	20.16	20.06		
5	64QAM	1	24	20.08	20.20	20.02	21	3
5	64QAM	12	0	19.18	19.28	19.08		
5	64QAM	12	7	19.09	19.11	19.09		
5	64QAM	12	13	19.09	19.17	19.07	21	3
5	64QAM	25	0	19.01	19.26	19.10		
5	64QAM	25	0	19.01	19.26	19.10		



Reduced Power Mode for Main PA EC12

GSM850 AnH EC12								
GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	126	189	251		126	189	251	
	542.2	538.4	548.8		542.2	538.4	548.8	
GSM 1 Tx slot	33.17	33.19	33.08	34.00	24.17	24.19	24.08	25.00
GPRS 1 Tx slot	33.15	33.18	33.07	34.00	24.15	24.18	24.07	25.00
GPRS 2 Tx slots	32.12	32.23	32.07	33.50	26.12	26.23	26.07	27.50
GPRS 3 Tx slots	30.32	30.44	30.43	31.50	26.06	26.18	26.17	27.24
GPRS 4 Tx slots	29.26	29.32	29.12	30.50	26.26	26.32	26.12	27.50
EDGE 1 Tx slot	27.32	27.42	27.43	28.50	18.32	18.42	18.43	19.50
EDGE 2 Tx slots	26.17	26.12	26.29	27.00	20.17	20.12	20.29	21.00
EDGE 3 Tx slots	23.86	23.92	23.88	25.00	19.60	19.66	19.62	20.74
EDGE 4 Tx slots	22.40	22.50	22.52	23.50	19.40	19.50	19.52	20.50

GSM1900 AnH EC12								
GSM1900 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	612	661	810		612	661	810	
	1320.2	1320	1320.8		1320.2	1320	1320.8	
GSM 1 Tx slot	29.55	29.53	29.48	30.50	20.55	20.53	20.45	21.50
GPRS 1 Tx slot	29.53	29.56	29.45	30.50	20.53	20.56	20.45	21.50
GPRS 2 Tx slots	28.48	28.61	28.44	29.50	22.48	22.61	22.44	23.50
GPRS 3 Tx slots	26.40	26.45	26.30	27.50	22.14	22.19	22.04	23.24
GPRS 4 Tx slots	25.29	25.33	25.13	26.50	22.29	22.33	22.13	23.50
EDGE 1 Tx slot	25.42	25.31	25.24	26.50	16.42	16.31	16.24	17.50
EDGE 2 Tx slots	24.27	23.89	23.91	25.00	18.27	17.89	17.91	19.00
EDGE 3 Tx slots	22.26	21.83	21.84	23.00	18.00	17.57	17.58	18.74
EDGE 4 Tx slots	20.92	20.80	20.76	22.00	17.92	17.80	17.76	19.00

Band TX Channel Rx Channel Frequency (MHz)	WCDMA # AnH EC12			Tune-up Limit (dBm)	WCDMA V AnH EC12			Tune-up Limit (dBm)
	9262	9400	9538		4132	4162	4233	
	1892.4	1890	1890.8		1892.4	1890	1890.8	
3GPP Rel 99 RMC 12.2kops	22.54	22.61	22.52	24.00	22.78	22.88	22.83	24.00
3GPP Rel 99	22.57	22.65	22.62	24.00	22.85	22.93	22.88	24.00
3GPP Rel 6 HSDPA Subtest-1	21.56	21.71	21.59	23.00	21.87	21.94	21.80	23.00
3GPP Rel 6 HSDPA Subtest-2	21.56	21.57	21.54	23.00	21.76	21.81	21.75	23.00
3GPP Rel 6 HSDPA Subtest-3	21.08	21.19	21.11	22.50	21.33	21.36	21.34	22.50
3GPP Rel 6 HSDPA Subtest-4	21.00	21.08	21.06	22.50	21.13	21.28	21.24	22.50
3GPP Rel 6 DCH-HSDPA Subtest-1	21.55	21.65	21.57	23.00	21.81	21.80	21.82	23.00
3GPP Rel 6 DCH-HSDPA Subtest-2	21.44	21.63	21.47	23.00	21.72	21.89	21.73	23.00
3GPP Rel 6 DCH-HSDPA Subtest-3	20.99	21.17	21.06	22.50	21.25	21.38	21.30	22.50
3GPP Rel 6 DCH-HSDPA Subtest-4	20.97	21.07	20.98	22.50	21.16	21.22	21.11	22.50
3GPP Rel 6 HSUPA Subtest-1	21.44	21.56	21.54	23.00	21.68	21.72	21.73	23.00
3GPP Rel 6 HSUPA Subtest-2	19.57	19.69	19.58	21.00	19.72	19.85	19.83	21.00
3GPP Rel 6 HSUPA Subtest-3	20.70	20.73	20.68	22.00	20.96	20.86	20.95	22.00
3GPP Rel 6 HSUPA Subtest-4	19.48	19.60	19.47	21.00	19.69	19.83	19.65	21.00
3GPP Rel 6 HSUPA Subtest-5	21.47	21.64	21.52	23.00	21.66	21.69	21.62	23.00
3GPP Rel 7 HSPA+ (HSPA) Subtest-1	19.11	19.31	19.13	20.50	19.35	19.52	19.37	20.50



Band 2 Ant0 DCI2

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains multiple channel frequency and power settings for Band 2.

Band 5 Ant0 EC12

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains multiple channel frequency and power settings for Band 5.

Band 26 Ant0 EC12

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains multiple channel frequency and power settings for Band 26.



Band 7 Ant1 ECI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20650	21100	21550			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.93	23.04	22.97	24	0	
20	QPSK	1	49	22.91	22.96	22.86			
20	QPSK	1	99	22.76	22.91	22.77			
20	QPSK	50	0	21.91	22.01	21.87	23	1	
20	QPSK	50	24	21.85	21.95	21.85			
20	QPSK	50	50	21.90	21.90	21.77			
20	QPSK	100	0	21.86	21.96	21.90			
20	16QAM	1	0	21.99	22.07	21.98	23	1	
20	16QAM	1	49	21.84	22.01	21.84			
20	16QAM	1	99	21.85	21.97	21.93			
20	16QAM	50	0	21.03	21.09	21.03	22	2	
20	16QAM	50	24	20.98	21.01	20.93			
20	16QAM	50	50	21.01	21.05	21.02			
20	16QAM	100	0	20.87	21.01	20.89			
20	64QAM	1	0	20.88	21.03	20.93	22	2	
20	64QAM	1	49	20.91	20.97	20.88			
20	64QAM	1	99	20.86	20.93	20.80			
20	64QAM	50	0	19.96	20.04	19.96	21	3	
20	64QAM	50	24	19.91	19.95	19.83			
20	64QAM	50	50	19.97	20.00	19.91			
20	64QAM	100	0	19.93	19.98	19.89			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.82	22.93	22.89	24	0	
15	QPSK	1	37	22.80	22.82	22.77			
15	QPSK	1	74	22.82	22.76	22.84			
15	QPSK	36	0	21.80	21.86	21.77	23	1	
15	QPSK	36	20	21.78	21.91	21.76			
15	QPSK	36	39	21.71	21.79	21.67			
15	QPSK	75	0	21.72	21.82	21.77			
15	16QAM	1	0	21.95	21.98	21.89	23	1	
15	16QAM	1	37	21.87	21.87	21.85			
15	16QAM	1	74	21.81	21.91	21.82			
15	16QAM	36	0	20.91	21.03	20.91	22	2	
15	16QAM	36	20	20.89	20.91	20.89			
15	16QAM	36	39	20.89	21.01	20.95			
15	16QAM	75	0	20.75	20.95	20.83			
15	64QAM	1	0	20.89	20.91	20.88	22	2	
15	64QAM	1	37	20.83	20.90	20.82			
15	64QAM	1	74	20.78	20.79	20.72			
15	64QAM	36	0	19.85	19.90	19.82	21	3	
15	64QAM	36	20	19.83	19.91	19.73			
15	64QAM	36	39	19.90	19.96	19.83			
15	64QAM	75	0	19.79	19.85	19.81			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.81	22.94	22.92	24	0	
10	QPSK	1	25	22.77	22.93	22.74			
10	QPSK	1	49	22.84	22.77	22.67			
10	QPSK	25	0	21.86	21.92	21.76	23	1	
10	QPSK	25	12	21.73	21.90	21.81			
10	QPSK	25	25	21.71	21.77	21.70			
10	QPSK	50	0	21.74	21.91	21.84	23	1	
10	16QAM	1	0	21.92	22.01	21.92			
10	16QAM	1	25	21.86	21.98	21.80			
10	16QAM	1	49	21.77	21.87	21.86			
10	16QAM	25	0	20.85	21.01	20.85	22	2	
10	16QAM	25	12	20.89	20.86	20.86			
10	16QAM	25	25	20.97	20.93	20.97			
10	16QAM	50	0	20.74	20.93	20.80			
10	64QAM	1	0	20.92	20.94	20.83	22	2	
10	64QAM	1	25	20.84	20.91	20.76			
10	64QAM	1	49	20.83	20.90	20.73			
10	64QAM	25	0	19.91	19.93	19.83	21	3	
10	64QAM	25	12	19.84	19.83	19.78			
10	64QAM	25	25	19.83	19.87	19.85			
10	64QAM	50	0	19.81	19.84	19.78			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.85	22.96	22.93	24	0	
5	QPSK	1	12	22.87	22.92	22.76			
5	QPSK	1	24	22.88	22.86	22.73			
5	QPSK	12	0	21.82	21.91	21.75	23	1	
5	QPSK	12	7	21.81	21.83	21.74			
5	QPSK	12	13	21.71	21.78	21.63			
5	QPSK	25	0	21.72	21.85	21.86			
5	16QAM	1	0	21.94	21.97	21.89	23	1	
5	16QAM	1	12	21.84	21.87	21.86			
5	16QAM	1	24	21.72	21.91	21.85			
5	16QAM	12	0	20.93	21.01	20.90	22	2	
5	16QAM	12	7	20.93	20.96	20.78			
5	16QAM	12	13	20.90	20.91	20.96			
5	16QAM	25	0	20.73	20.94	20.83			
5	64QAM	1	0	20.86	20.92	20.85	22	2	
5	64QAM	1	12	20.87	20.94	20.78			
5	64QAM	1	24	20.78	20.82	20.75			
5	64QAM	12	0	19.90	19.94	19.81	21	3	
5	64QAM	12	7	19.82	19.82	19.73			
5	64QAM	12	13	19.82	19.82	19.82			
5	64QAM	25	0	19.86	19.87	19.79			



Band 42 FCC Part27Q EC12

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				42190	42590	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	15.87	15.99	15.81	17.5	0
20	QPSK	1	49	15.86	15.91	15.79		
20	QPSK	1	99	15.87	15.92	15.81		
20	QPSK	50	0	15.87	15.83	15.81	17.5	0
20	QPSK	50	24	15.84	15.92	15.82		
20	QPSK	50	50	15.83	15.92	15.82		
20	QPSK	100	0	15.87	15.92	15.82	17.5	0
20	16QAM	1	0	15.85	15.95	15.78		
20	16QAM	1	49	15.83	15.92	15.79		
20	16QAM	1	99	15.85	15.92	15.82	17.5	0
20	16QAM	50	0	15.84	15.96	15.82		
20	16QAM	50	24	15.86	15.95	15.81		
20	16QAM	50	50	15.88	15.90	15.82	17.5	0
20	16QAM	100	0	15.85	15.94	15.78		
20	64QAM	1	0	15.84	15.90	15.82		
20	64QAM	1	49	15.83	15.94	15.83	17.5	0
20	64QAM	1	99	15.85	15.92	15.82		
20	64QAM	50	0	15.88	15.95	15.82		
20	64QAM	50	24	15.84	15.91	15.81	17.5	0
20	64QAM	50	50	15.89	15.94	15.78		
20	64QAM	100	0	15.86	15.95	15.81		
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500	3542.5		
15	QPSK	1	0	15.78	15.82	15.70	17.5	0
15	QPSK	1	37	15.75	15.86	15.71		
15	QPSK	1	74	15.75	15.85	15.70		
15	QPSK	36	0	15.74	15.80	15.68	17.5	0
15	QPSK	36	20	15.77	15.86	15.69		
15	QPSK	36	39	15.78	15.82	15.73		
15	QPSK	75	0	15.75	15.85	15.71	17.5	0
15	16QAM	1	0	15.77	15.80	15.71		
15	16QAM	1	37	15.77	15.85	15.69		
15	16QAM	1	74	15.74	15.82	15.73	17.5	0
15	16QAM	36	0	15.77	15.83	15.71		
15	16QAM	36	20	15.76	15.80	15.72		
15	16QAM	36	39	15.73	15.81	15.70	17.5	0
15	16QAM	75	0	15.78	15.86	15.70		
15	64QAM	1	0	15.74	15.86	15.74		
15	64QAM	1	37	15.74	15.83	15.72	17.5	0
15	64QAM	1	74	15.74	15.86	15.71		
15	64QAM	36	0	15.77	15.82	15.72		
15	64QAM	36	20	15.78	15.86	15.68	17.5	0
15	64QAM	36	39	15.73	15.81	15.73		
15	64QAM	75	0	15.75	15.82	15.72		
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	15.77	15.86	15.68	17.5	0
10	QPSK	1	25	15.73	15.81	15.70		
10	QPSK	1	49	15.77	15.83	15.74		
10	QPSK	25	0	15.76	15.82	15.72	17.5	0
10	QPSK	25	12	15.77	15.83	15.72		
10	QPSK	25	25	15.75	15.84	15.70		
10	QPSK	50	0	15.74	15.83	15.73	17.5	0
10	16QAM	1	0	15.79	15.85	15.70		
10	16QAM	1	25	15.77	15.82	15.70		
10	16QAM	1	49	15.77	15.85	15.72	17.5	0
10	16QAM	25	0	15.74	15.83	15.72		
10	16QAM	25	12	15.79	15.84	15.74		
10	16QAM	25	25	15.73	15.86	15.68	17.5	0
10	16QAM	50	0	15.74	15.81	15.69		
10	64QAM	1	0	15.78	15.81	15.72		
10	64QAM	1	25	15.78	15.86	15.74	17.5	0
10	64QAM	1	49	15.76	15.85	15.68		
10	64QAM	25	0	15.78	15.84	15.68		
10	64QAM	25	12	15.79	15.83	15.70	17.5	0
10	64QAM	25	25	15.76	15.85	15.70		
10	64QAM	50	0	15.78	15.83	15.71		
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3452.5	3500	3547.5		
5	QPSK	1	0	15.79	15.86	15.70	17.5	0
5	QPSK	1	12	15.75	15.81	15.71		
5	QPSK	1	24	15.76	15.83	15.69		
5	QPSK	12	0	15.78	15.83	15.70	17.5	0
5	QPSK	12	7	15.79	15.82	15.73		
5	QPSK	12	13	15.74	15.85	15.71		
5	QPSK	25	0	15.76	15.84	15.70	17.5	0
5	16QAM	1	0	15.74	15.84	15.68		
5	16QAM	1	12	15.73	15.86	15.73		
5	16QAM	1	24	15.73	15.83	15.69	17.5	0
5	16QAM	12	0	15.76	15.82	15.73		
5	16QAM	12	7	15.73	15.84	15.71		
5	16QAM	12	13	15.75	15.82	15.74	17.5	0
5	16QAM	25	0	15.76	15.83	15.70		
5	64QAM	1	0	15.77	15.83	15.72		
5	64QAM	1	12	15.74	15.84	15.74	17.5	0
5	64QAM	1	24	15.76	15.84	15.71		
5	64QAM	12	0	15.79	15.81	15.73		
5	64QAM	12	7	15.73	15.81	15.72	17.5	0
5	64QAM	12	13	15.78	15.81	15.69		
5	64QAM	25	0	15.75	15.85	15.70		



Reduced Power Mode for Main PA EC13

GSM850 AnH EC13								
GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	726 854.2	789 858.4	251 848.8		726 854.2	789 858.4	251 848.8	
GSM 1 Tx slot	30.14	30.16	30.05	31.00	21.14	21.16	21.05	22.00
GPRS 1 Tx slot	30.12	30.15	30.04	31.00	21.12	21.15	21.04	22.00
GPRS 2 Tx slots	29.08	29.20	29.04	30.50	23.09	23.20	23.04	24.50
GPRS 3 Tx slots	27.29	27.41	27.40	28.50	23.03	23.15	23.14	24.24
GPRS 4 Tx slots	28.23	28.29	28.09	27.50	23.23	23.29	23.09	24.50
EDGE 1 Tx slot	24.29	24.39	24.40	25.50	15.29	15.39	15.40	16.50
EDGE 2 Tx slots	23.14	23.08	23.28	24.00	17.14	17.09	17.28	18.00
EDGE 3 Tx slots	20.83	20.89	20.85	22.00	16.57	16.63	16.59	17.74
EDGE 4 Tx slots	19.37	19.47	19.49	20.50	16.37	16.47	16.49	17.50

GSM1900 AnH EC13								
GSM1900 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512 1529.2	661 1530	810 1529.8		512 1529.2	661 1530	810 1529.8	
GSM 1 Tx slot	22.66	22.69	22.57	23.50	13.66	13.69	13.57	14.50
GPRS 1 Tx slot	22.64	22.67	22.58	23.50	13.64	13.67	13.56	14.50
GPRS 2 Tx slots	21.59	21.72	21.55	22.50	15.59	15.72	15.55	16.50
GPRS 3 Tx slots	19.51	19.56	19.41	20.50	15.25	15.30	15.15	16.24
GPRS 4 Tx slots	19.40	19.44	19.24	19.50	15.40	15.44	15.24	16.50
EDGE 1 Tx slot	18.53	18.42	18.35	19.50	9.53	9.42	9.35	10.50
EDGE 2 Tx slots	17.38	17.00	17.02	18.00	11.38	11.00	11.02	12.00
EDGE 3 Tx slots	15.37	14.94	14.95	16.00	11.11	10.68	10.69	11.74
EDGE 4 Tx slots	14.03	14.08	13.89	15.00	11.03	11.08	10.89	12.00

Band TX Channel Frequency (MHz)	WCDMA U AnH EC13			Tune-up Limit (dBm)	WCDMA V AnH EC13			Tune-up Limit (dBm)
	9262 9862	9400 9900	9538 9938		4132 4367	4162 4407	4233 4458	
3GPP Rel 99 RMC 12.2kops	15.62 15.65	15.69 15.73	15.60 15.70	17.00	21.24 21.31	21.34 21.39	21.29 21.34	22.50 22.50
3GPP Rel 6 HSDPA Subtest-1	14.84	14.79	14.67	16.00	20.33	20.40	20.26	21.50
3GPP Rel 6 HSDPA Subtest-2	14.84	14.65	14.62	16.00	20.22	20.27	20.21	21.50
3GPP Rel 6 HSDPA Subtest-3	14.16	14.27	14.19	15.50	19.79	19.82	19.80	21.00
3GPP Rel 6 HSDPA Subtest-4	14.08	14.14	14.14	15.50	19.59	19.74	19.70	21.00
3GPP Rel 6 DCH-HSDPA Subtest-1	14.83	14.73	14.65	16.00	20.27	20.26	20.26	21.50
3GPP Rel 6 DCH-HSDPA Subtest-2	14.52	14.71	14.65	16.00	20.18	20.35	20.19	21.50
3GPP Rel 6 DCH-HSDPA Subtest-3	14.07	14.25	14.14	15.50	19.71	19.84	19.76	21.00
3GPP Rel 6 DCH-HSDPA Subtest-4	14.05	14.15	14.06	15.50	19.62	19.68	19.57	21.00
3GPP Rel 6 HSUPA Subtest-1	14.52	14.67	14.62	16.00	20.14	20.18	20.16	21.50
3GPP Rel 6 HSUPA Subtest-2	12.65	12.77	12.66	14.00	18.16	18.31	18.28	19.50
3GPP Rel 6 HSUPA Subtest-3	13.78	13.81	13.76	15.00	19.42	19.32	19.41	20.50
3GPP Rel 6 HSUPA Subtest-4	12.56	12.68	12.55	14.00	18.15	18.29	18.11	19.50
3GPP Rel 6 HSUPA Subtest-5	14.55	14.72	14.60	16.00	20.12	20.35	20.28	21.50
3GPP Rel 7 HSPA+ (HSPA) Subtest-1	12.19	12.36	12.21	13.50	17.81	17.86	17.83	19.00



Band 7 Ant1 ECIS								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20650	21100	21650		
Frequency (MHz)				2510	2535	2590		
20	QPSK	1	0	17.99	18.06	17.95		
20	QPSK	1	49	17.82	17.86	17.99	19	0
20	QPSK	1	99	17.80	18.00	18.00		
20	QPSK	50	0	17.98	18.01	17.94		
20	QPSK	50	24	17.82	18.00	17.99	19	0
20	QPSK	50	50	17.83	17.99	17.85		
20	QPSK	100	0	17.88	17.93	17.86		
20	16QAM	1	0	17.86	17.96	17.96		
20	16QAM	1	49	17.83	17.86	17.93	19	0
20	16QAM	1	99	17.83	18.01	17.80		
20	16QAM	50	0	17.78	17.85	17.93		
20	16QAM	50	24	17.86	18.04	17.80	19	0
20	16QAM	50	50	17.86	17.93	17.99		
20	16QAM	100	0	17.77	17.92	17.83		
20	64QAM	1	0	17.75	18.04	17.99		
20	64QAM	1	49	17.90	17.86	17.97	19	0
20	64QAM	1	99	17.76	18.02	17.84		
20	64QAM	50	0	17.84	18.03	17.97		
20	64QAM	50	24	17.79	17.92	17.94	19	0
20	64QAM	50	50	17.91	17.99	17.83		
20	64QAM	100	0	17.86	18.05	17.87		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	17.91	18.05	17.93		
15	QPSK	1	37	17.91	18.00	17.98	19	0
15	QPSK	1	74	17.74	17.98	17.95		
15	QPSK	36	0	18.02	18.02	17.88		
15	QPSK	36	20	17.82	17.98	17.98	19	0
15	QPSK	36	39	17.96	18.02	17.79		
15	QPSK	75	0	17.84	17.86	17.78		
15	16QAM	1	0	17.76	17.88	17.93		
15	16QAM	1	37	17.85	17.78	17.97	19	0
15	16QAM	1	74	17.83	18.02	17.74		
15	16QAM	36	0	17.69	17.81	17.86		
15	16QAM	36	20	17.83	18.06	17.78	19	0
15	16QAM	36	39	17.85	17.85	17.95		
15	16QAM	75	0	17.80	17.86	17.78		
15	64QAM	1	0	17.70	17.97	17.98		
15	64QAM	1	37	17.81	17.86	17.99	19	0
15	64QAM	1	74	17.77	18.01	17.95		
15	64QAM	36	0	17.78	17.88	17.93		
15	64QAM	36	20	17.72	17.94	17.95	19	0
15	64QAM	36	39	17.87	18.00	17.75		
15	64QAM	75	0	17.87	18.00	17.99		
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	18.02	17.99	17.91		
10	QPSK	1	25	17.83	17.99	17.99	19	0
10	QPSK	1	49	17.84	17.93	17.95		
10	QPSK	25	0	17.90	17.99	17.87		
10	QPSK	25	12	17.83	17.96	17.96	19	0
10	QPSK	25	25	17.85	17.95	17.82		
10	QPSK	50	0	17.82	17.95	17.78		
10	16QAM	1	0	17.76	17.91	17.97		
10	16QAM	1	25	17.86	17.87	17.87	19	0
10	16QAM	1	49	17.76	17.92	17.75		
10	16QAM	25	0	17.73	17.75	17.96		
10	16QAM	25	12	17.79	17.94	17.72	19	0
10	16QAM	25	25	17.76	17.97	17.99		
10	16QAM	50	0	17.78	17.88	17.79		
10	64QAM	1	0	17.72	18.04	17.92		
10	64QAM	1	25	17.90	17.78	17.95	19	0
10	64QAM	1	49	17.77	18.03	17.96		
10	64QAM	25	0	17.75	18.01	17.99		
10	64QAM	25	12	17.81	17.85	17.87	19	0
10	64QAM	25	25	17.83	17.95	17.80		
10	64QAM	50	0	17.85	17.99	17.99		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	18.01	18.03	17.96		
5	QPSK	1	12	17.86	17.98	17.96	19	0
5	QPSK	1	24	17.73	17.93	18.00		
5	QPSK	12	0	18.01	18.05	17.86		
5	QPSK	12	7	17.87	17.93	17.91	19	0
5	QPSK	12	13	17.92	17.92	17.79		
5	QPSK	25	0	17.81	17.93	17.81		
5	16QAM	1	0	17.67	17.93	17.89		
5	16QAM	1	12	17.84	17.84	17.84	19	0
5	16QAM	1	24	17.78	17.99	17.79		
5	16QAM	12	0	17.79	17.80	17.86		
5	16QAM	12	7	17.77	18.00	17.72	19	0
5	16QAM	12	13	17.76	17.90	18.01		
5	16QAM	25	0	17.71	17.85	17.73		
5	64QAM	1	0	17.71	17.97	18.02		
5	64QAM	1	12	17.83	17.88	17.88	19	0
5	64QAM	1	24	17.69	17.98	17.87		
5	64QAM	12	0	17.86	18.04	17.93		
5	64QAM	12	7	17.79	17.92	17.89	19	0
5	64QAM	12	13	17.84	17.94	17.83		
5	64QAM	25	0	17.98	18.05	18.00		



Band 42 FCC Part27Q ECI3

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel								
Frequency (MHz)								
20	42190	42590	42990					
20	3460	3500	3540					
20	QPSK	1	0	15.87	15.99	15.81	17.5	0
20	QPSK	1	49	15.86	15.91	15.79		
20	QPSK	1	99	15.87	15.92	15.81		
20	QPSK	50	0	15.87	15.83	15.81		
20	QPSK	50	24	15.84	15.92	15.82		
20	QPSK	50	50	15.83	15.92	15.82		
20	QPSK	100	0	15.87	15.92	15.82		
20	16QAM	1	0	15.85	15.96	15.78		
20	16QAM	1	49	15.83	15.92	15.79		
20	16QAM	1	99	15.85	15.92	15.82		
20	16QAM	50	0	15.84	15.96	15.82		
20	16QAM	50	24	15.86	15.95	15.81		
20	16QAM	50	50	15.88	15.90	15.82		
20	16QAM	100	0	15.85	15.94	15.80		
20	64QAM	1	0	15.84	15.90	15.82		
20	64QAM	1	49	15.83	15.94	15.83		
20	64QAM	1	99	15.85	15.92	15.82		
20	64QAM	50	0	15.88	15.95	15.82		
20	64QAM	50	24	15.84	15.91	15.81		
20	64QAM	50	50	15.89	15.94	15.78		
20	64QAM	100	0	15.86	15.95	15.81		
Channel								
Frequency (MHz)								
15	42165	42590	43015					
15	3457.5	3500	3542.5					
15	QPSK	1	0	15.78	15.82	15.70	17.5	0
15	QPSK	1	37	15.75	15.86	15.71		
15	QPSK	1	74	15.75	15.85	15.70		
15	QPSK	36	0	15.74	15.80	15.68		
15	QPSK	36	20	15.77	15.86	15.69		
15	QPSK	36	39	15.78	15.82	15.73		
15	QPSK	75	0	15.75	15.85	15.71		
15	16QAM	1	0	15.77	15.80	15.71		
15	16QAM	1	37	15.77	15.85	15.69		
15	16QAM	1	74	15.74	15.82	15.73		
15	16QAM	36	0	15.77	15.83	15.71		
15	16QAM	36	20	15.76	15.80	15.72		
15	16QAM	36	39	15.73	15.81	15.70		
15	16QAM	75	0	15.78	15.86	15.70		
15	64QAM	1	0	15.74	15.86	15.74		
15	64QAM	1	37	15.74	15.83	15.72		
15	64QAM	1	74	15.74	15.86	15.71		
15	64QAM	36	0	15.77	15.82	15.72		
15	64QAM	36	20	15.78	15.86	15.68		
15	64QAM	36	39	15.73	15.81	15.73		
15	64QAM	75	0	15.75	15.82	15.72		
Channel								
Frequency (MHz)								
10	42140	42590	43040					
10	3455	3500	3545					
10	QPSK	1	0	15.77	15.86	15.69	17.5	0
10	QPSK	1	25	15.73	15.81	15.70		
10	QPSK	1	49	15.77	15.83	15.74		
10	QPSK	25	0	15.76	15.82	15.72		
10	QPSK	25	12	15.77	15.83	15.72		
10	QPSK	25	25	15.75	15.84	15.70		
10	QPSK	50	0	15.74	15.83	15.73		
10	16QAM	1	0	15.79	15.85	15.70		
10	16QAM	1	25	15.77	15.82	15.70		
10	16QAM	1	49	15.77	15.85	15.72		
10	16QAM	25	0	15.74	15.83	15.72		
10	16QAM	25	12	15.79	15.84	15.74		
10	16QAM	25	25	15.73	15.86	15.68		
10	16QAM	50	0	15.74	15.81	15.69		
10	64QAM	1	0	15.78	15.81	15.72		
10	64QAM	1	25	15.78	15.86	15.74		
10	64QAM	1	49	15.76	15.85	15.68		
10	64QAM	25	0	15.78	15.84	15.68		
10	64QAM	25	12	15.79	15.83	15.70		
10	64QAM	25	25	15.76	15.85	15.70		
10	64QAM	50	0	15.78	15.83	15.71		
Channel								
Frequency (MHz)								
5	42115	42590	43065					
5	3452.5	3500	3547.5					
5	QPSK	1	0	15.79	15.86	15.70	17.5	0
5	QPSK	1	12	15.75	15.81	15.71		
5	QPSK	1	24	15.76	15.83	15.69		
5	QPSK	12	0	15.78	15.83	15.70		
5	QPSK	12	7	15.79	15.82	15.73		
5	QPSK	12	13	15.74	15.85	15.71		
5	QPSK	25	0	15.76	15.84	15.70		
5	16QAM	1	0	15.74	15.84	15.68		
5	16QAM	1	12	15.73	15.86	15.73		
5	16QAM	1	24	15.73	15.83	15.69		
5	16QAM	12	0	15.76	15.82	15.73		
5	16QAM	12	7	15.73	15.84	15.71		
5	16QAM	12	13	15.75	15.82	15.74		
5	16QAM	25	0	15.76	15.83	15.70		
5	64QAM	1	0	15.77	15.83	15.72		
5	64QAM	1	12	15.74	15.84	15.74		
5	64QAM	1	24	15.76	15.84	15.71		
5	64QAM	12	0	15.79	15.81	15.73		
5	64QAM	12	7	15.73	15.81	15.72		
5	64QAM	12	13	15.78	15.81	15.69		
5	64QAM	25	0	15.75	15.85	15.70		



Reduced Power Mode for Main PA EC16

GSM850 AnH0 EC16								
GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	726	189	251		726	189	251	
	542.2	536.4	548.8		542.2	536.4	548.8	
GSM 1 Tx slot	32.64	32.66	32.55	33.50	23.64	23.66	23.55	24.50
GPRS 1 Tx slot	32.62	32.65	32.54	33.50	23.62	23.65	23.54	24.50
GPRS 2 Tx slots	31.59	31.70	31.54	33.00	25.59	25.70	25.54	27.00
GPRS 3 Tx slots	29.79	29.91	29.80	31.00	25.53	25.65	25.64	26.74
GPRS 4 Tx slots	28.73	28.79	28.59	30.00	25.73	25.79	25.59	27.00
EDGE 1 Tx slot	26.79	26.89	26.90	28.00	17.79	17.89	17.90	19.00
EDGE 2 Tx slots	25.64	25.59	25.76	26.50	16.64	16.59	16.76	20.50
EDGE 3 Tx slots	23.33	23.35	23.35	24.50	19.07	19.13	19.09	20.24
EDGE 4 Tx slots	21.87	21.97	21.99	23.00	16.87	16.97	16.99	20.00

GSM1900 AnH0 EC16								
GSM1900 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	612	661	810		612	661	810	
	1320.2	1330	1320.3		1320.2	1330	1320.3	
GSM 1 Tx slot	26.96	27.01	26.89	28.00	17.96	18.01	17.89	19.00
GPRS 1 Tx slot	26.96	26.96	26.88	28.00	17.96	17.99	17.88	19.00
GPRS 2 Tx slots	25.91	26.04	25.87	27.00	19.91	20.04	19.87	21.00
GPRS 3 Tx slots	23.83	23.86	23.73	25.00	19.57	19.62	19.47	20.74
GPRS 4 Tx slots	22.72	22.76	22.56	24.00	19.72	19.76	19.56	21.00
EDGE 1 Tx slot	22.85	22.74	22.67	24.00	13.85	13.74	13.67	15.00
EDGE 2 Tx slots	21.70	21.32	21.34	22.50	15.70	15.32	15.34	16.50
EDGE 3 Tx slots	19.89	19.26	19.27	20.50	15.43	15.00	15.01	16.24
EDGE 4 Tx slots	18.35	18.23	18.21	19.50	15.35	15.23	15.21	16.50

Band TX Channel Rx Channel Frequency (MHz)	WCDMA II 9262 9862 1052.2			Tune-up Limit (dBm)	WCDMA V 4132 4367 4584			Tune-up Limit (dBm)
	9400 9900 1000.5	9538 9936 1000.5	9538 9936 1000.5		4132 4367 4584	4162 4407 4614	4233 4458 4614	
3GPP Rel 99	17.98	18.05	17.96	19.50	21.35	21.45	21.40	22.50
3GPP Rel 99	18.01	18.06	18.06	19.50	21.42	21.50	21.45	22.50
3GPP Rel 6	17.00	17.15	17.03	18.50	20.44	20.51	20.37	21.50
3GPP Rel 6	17.00	17.01	16.98	18.50	20.33	20.38	20.32	21.50
3GPP Rel 6	16.52	16.63	16.55	18.00	19.90	19.93	19.91	21.00
3GPP Rel 6	16.44	16.50	16.50	18.00	19.70	19.85	19.81	21.00
3GPP Rel 6	16.99	17.05	17.01	18.50	20.38	20.37	20.36	21.50
3GPP Rel 6	16.98	17.07	16.91	18.50	20.29	20.46	20.30	21.50
3GPP Rel 6	16.43	16.61	16.50	18.00	19.82	19.95	19.87	21.00
3GPP Rel 6	16.41	16.51	16.42	18.00	19.73	19.79	19.85	21.00
3GPP Rel 6	16.88	17.05	16.88	18.50	20.25	20.29	20.30	21.50
3GPP Rel 6	15.01	15.15	15.02	16.50	16.29	16.42	16.40	19.50
3GPP Rel 6	16.14	16.17	16.12	17.50	19.53	19.43	19.52	20.50
3GPP Rel 6	14.92	15.04	14.91	16.50	18.26	18.40	18.22	19.50
3GPP Rel 6	16.91	17.05	16.96	18.50	20.23	20.46	20.39	21.50
3GPP Rel 7	14.55	14.75	14.57	16.00	17.92	18.09	17.94	19.00



Band 7 Ant1 EC16

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				20550	21100	21550		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	19.02	19.06	18.97	20	0
20	QPSK	1	49	18.94	18.92	18.99		
20	QPSK	1	99	18.76	18.90	18.88		
20	QPSK	50	0	18.95	19.01	18.98	20	0
20	QPSK	50	24	18.76	18.94	18.96		
20	QPSK	50	50	18.72	19.00	18.79		
20	QPSK	100	0	18.95	18.97	18.86	20	0
20	16QAM	1	0	18.76	18.86	18.99		
20	16QAM	1	49	18.81	19.00	18.81		
20	16QAM	1	99	18.76	18.94	18.93	20	0
20	16QAM	50	0	18.73	19.03	18.93		
20	16QAM	50	24	18.77	18.99	18.83		
20	16QAM	50	50	18.83	18.97	18.82	20	0
20	16QAM	100	0	18.81	18.89	18.97		
20	64QAM	1	0	18.80	18.81	18.96		
20	64QAM	1	49	18.80	18.92	18.94	20	0
20	64QAM	1	99	18.80	18.99	18.95		
20	64QAM	50	0	18.88	18.99	18.94		
20	64QAM	50	24	18.78	18.88	18.94	20	0
20	64QAM	50	50	18.77	19.03	19.00		
20	64QAM	100	0	18.77	19.05	18.83		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	18.71	18.90	18.75	20	0
15	QPSK	1	37	18.87	18.82	18.77		
15	QPSK	1	74	18.84	18.98	18.78		
15	QPSK	36	0	18.84	18.92	18.87	20	0
15	QPSK	36	20	18.83	18.84	18.91		
15	QPSK	36	39	18.75	18.89	18.78		
15	QPSK	75	0	18.88	18.91	18.75	20	0
15	16QAM	1	0	18.75	18.99	18.86		
15	16QAM	1	37	18.92	18.85	18.94		
15	16QAM	1	74	18.94	18.91	18.89	20	0
15	16QAM	36	0	18.86	18.93	18.87		
15	16QAM	36	20	18.72	18.93	18.85		
15	16QAM	36	39	18.76	18.94	18.93	20	0
15	16QAM	75	0	18.87	19.03	18.82		
15	64QAM	1	0	18.81	19.04	18.92		
15	64QAM	1	37	18.79	18.90	18.97	20	0
15	64QAM	1	74	18.78	18.98	18.97		
15	64QAM	36	0	18.83	18.92	18.96		
15	64QAM	36	20	18.77	18.95	18.75	20	0
15	64QAM	36	39	18.74	18.83	18.83		
15	64QAM	75	0	18.88	18.89	18.93		
Channel				20900	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	18.83	18.81	18.90	20	0
10	QPSK	1	25	18.76	18.99	18.89		
10	QPSK	1	49	18.88	18.84	18.82		
10	QPSK	25	0	18.82	18.91	18.93	20	0
10	QPSK	25	12	18.88	19.05	18.96		
10	QPSK	25	25	18.85	18.90	18.82		
10	QPSK	50	0	18.90	19.00	18.91	20	0
10	16QAM	1	0	18.73	18.91	18.75		
10	16QAM	1	25	18.89	19.03	18.81		
10	16QAM	1	49	18.88	18.84	18.94	20	0
10	16QAM	25	0	18.79	19.03	18.86		
10	16QAM	25	12	18.92	18.90	18.81		
10	16QAM	25	25	18.91	18.97	18.77	20	0
10	16QAM	50	0	18.78	18.85	18.86		
10	64QAM	1	0	18.73	18.81	18.78		
10	64QAM	1	25	18.75	18.98	18.85	20	0
10	64QAM	1	49	18.79	19.03	18.90		
10	64QAM	25	0	18.81	18.92	18.78		
10	64QAM	25	12	18.92	18.96	18.97	20	0
10	64QAM	25	25	18.87	18.87	18.75		
10	64QAM	50	0	18.75	19.02	18.79		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	18.76	18.89	18.98	20	0
5	QPSK	1	12	18.92	18.97	18.90		
5	QPSK	1	24	18.81	19.02	18.78		
5	QPSK	12	0	18.76	18.98	18.82	20	0
5	QPSK	12	7	18.91	18.97	18.75		
5	QPSK	12	13	18.86	19.04	18.78		
5	QPSK	25	0	18.84	18.98	18.92	20	0
5	16QAM	1	0	18.86	19.02	18.90		
5	16QAM	1	12	18.89	18.94	18.84		
5	16QAM	1	24	18.93	18.82	18.94	20	0
5	16QAM	12	0	18.93	18.82	18.84		
5	16QAM	12	7	18.71	18.94	18.93		
5	16QAM	12	13	18.91	18.89	18.95	20	0
5	16QAM	25	0	18.91	18.93	18.93		
5	64QAM	1	0	18.81	18.85	18.75		
5	64QAM	1	12	18.92	18.85	18.96	20	0
5	64QAM	1	24	18.91	19.05	18.77		
5	64QAM	12	0	18.82	18.92	18.91		
5	64QAM	12	7	18.77	18.88	18.77	20	0
5	64QAM	12	13	18.74	18.89	18.97		
5	64QAM	25	0	18.77	18.97	18.91		



Band 42 FCC Part27Q ECI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				42190	42990	42990				
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	19.81	19.84	19.72	21.5	0		
20	QPSK	1	49	19.82	19.86	19.65				
20	QPSK	1	99	19.74	19.83	19.67				
20	QPSK	50	0	19.75	19.80	19.70	21.5	0		
20	QPSK	50	24	19.55	19.72	19.58				
20	QPSK	50	50	19.65	19.54	19.65				
20	QPSK	100	0	19.83	19.76	19.74	21.5	0		
20	16QAM	1	0	19.64	19.83	19.61				
20	16QAM	1	49	19.65	19.77	19.74				
20	16QAM	1	99	19.82	19.69	19.70	21.5	0		
20	16QAM	50	0	19.80	19.74	19.67				
20	16QAM	50	24	19.57	19.79	19.74				
20	16QAM	50	50	19.64	19.67	19.57	21.5	0		
20	16QAM	100	0	19.67	19.73	19.70				
20	64QAM	1	0	19.55	19.62	19.57				
20	64QAM	1	49	19.65	19.72	19.67	21.5	0		
20	64QAM	1	99	19.56	19.80	19.70				
20	64QAM	50	0	19.22	19.33	19.23				
20	64QAM	50	24	19.14	19.24	19.13	21	0.5		
20	64QAM	50	50	19.15	19.20	19.13				
20	64QAM	100	0	19.16	19.23	19.23				
Channel				42165	42990	43015				
Frequency (MHz)				347.5	3500	3542.5				
15	QPSK	1	0	19.63	19.80	19.67	21.5	0		
15	QPSK	1	37	19.58	19.63	19.62				
15	QPSK	1	74	19.69	19.51	19.52				
15	QPSK	36	0	19.74	19.83	19.74	21.5	0		
15	QPSK	36	20	19.54	19.63	19.53				
15	QPSK	36	39	19.67	19.77	19.70				
15	QPSK	75	0	19.57	19.66	19.72	21.5	0		
15	16QAM	1	0	19.59	19.72	19.52				
15	16QAM	1	37	19.61	19.79	19.76				
15	16QAM	1	74	19.53	19.54	19.60	21.5	0		
15	16QAM	36	0	19.73	19.75	19.64				
15	16QAM	36	20	19.52	19.77	19.64				
15	16QAM	36	39	19.66	19.70	19.68	21.5	0		
15	16QAM	75	0	19.66	19.70	19.54				
15	64QAM	1	0	19.65	19.70	19.64				
15	64QAM	1	37	19.69	19.57	19.52	21.5	0		
15	64QAM	1	74	19.59	19.67	19.60				
15	64QAM	36	0	19.10	19.23	19.11				
15	64QAM	36	20	19.10	19.15	19.09	21	0.5		
15	64QAM	36	39	19.03	19.15	19.06				
15	64QAM	75	0	19.11	19.24	19.09				
Channel				42140	42990	43040				
Frequency (MHz)				3465	3500	3545				
10	QPSK	1	0	19.83	19.69	19.73	21.5	0		
10	QPSK	1	25	19.52	19.68	19.65				
10	QPSK	1	49	19.66	19.51	19.61				
10	QPSK	25	0	19.72	19.76	19.74	21.5	0		
10	QPSK	25	12	19.80	19.62	19.51				
10	QPSK	25	25	19.65	19.57	19.70				
10	QPSK	50	0	19.50	19.79	19.70	21.5	0		
10	16QAM	1	0	19.80	19.70	19.63				
10	16QAM	1	25	19.50	19.71	19.68				
10	16QAM	1	49	19.56	19.67	19.70	21.5	0		
10	16QAM	25	0	19.62	19.66	19.66				
10	16QAM	25	12	19.79	19.72	19.58				
10	16QAM	25	25	19.64	19.57	19.56	21	0.5		
10	16QAM	50	0	19.54	19.69	19.69				
10	64QAM	1	0	19.59	19.50	19.60				
10	64QAM	1	25	19.55	19.59	19.62	21.5	0		
10	64QAM	1	49	19.61	19.77	19.68				
10	64QAM	25	0	19.16	19.27	19.13				
10	64QAM	25	12	19.02	19.18	19.09	21	0.5		
10	64QAM	25	25	19.07	19.12	19.08				
10	64QAM	50	0	19.12	19.18	19.15				
Channel				42115	42990	43065				
Frequency (MHz)				3452.5	3500	3547.5				
5	QPSK	1	0	19.81	19.67	19.58	21.5	0		
5	QPSK	1	12	19.63	19.63	19.58				
5	QPSK	1	24	19.70	19.54	19.65				
5	QPSK	12	0	19.75	19.68	19.55	21.5	0		
5	QPSK	12	7	19.71	19.67	19.71				
5	QPSK	12	13	19.69	19.72	19.57				
5	QPSK	25	0	19.64	19.76	19.72	21.5	0		
5	16QAM	1	0	19.66	19.75	19.55				
5	16QAM	1	12	19.61	19.62	19.73				
5	16QAM	1	24	19.63	19.59	19.68	21.5	0		
5	16QAM	12	0	19.63	19.68	19.70				
5	16QAM	12	7	19.50	19.78	19.69				
5	16QAM	12	13	19.88	19.69	19.55	21.5	0		
5	16QAM	25	0	19.61	19.65	19.69				
5	64QAM	1	0	19.88	19.67	19.68				
5	64QAM	1	12	19.61	19.72	19.71	21.5	0		
5	64QAM	1	24	19.54	19.67	19.70				
5	64QAM	12	0	19.18	19.28	19.08				
5	64QAM	12	7	19.09	19.11	19.09	21	0.5		
5	64QAM	12	13	19.09	19.17	19.07				
5	64QAM	25	0	19.01	19.26	19.10				



Reduced Power Mode for Main PA EC17

GSM850 AnH0 EC17								
GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	726	789	251		726	789	251	
	545.2	538.4	548.8		545.2	538.4	548.8	
GSM 1 Tx slot	30.14	30.16	30.05	31.00	21.14	21.16	21.05	22.00
GPRS 1 Tx slot	30.12	30.15	30.04	31.00	21.12	21.15	21.04	22.00
GPRS 2 Tx slots	29.08	29.20	29.04	30.50	23.09	23.20	23.04	24.50
GPRS 3 Tx slots	27.29	27.41	27.40	28.50	23.03	23.15	23.14	24.24
GPRS 4 Tx slots	28.23	28.29	28.09	27.50	23.23	23.29	23.09	24.50
EDGE 1 Tx slot	24.29	24.39	24.40	25.50	15.29	15.39	15.40	16.50
EDGE 2 Tx slots	23.14	23.08	23.28	24.00	17.14	17.09	17.28	18.00
EDGE 3 Tx slots	20.83	20.89	20.85	22.00	16.57	16.63	16.59	17.74
EDGE 4 Tx slots	19.37	19.47	19.49	20.50	16.37	16.47	16.49	17.50

GSM1900 AnH0 EC17								
GSM1900 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
	1202.2	1150	1202.8		1202.2	1150	1202.8	
GSM 1 Tx slot	22.66	22.69	22.57	23.50	13.66	13.69	13.57	14.50
GPRS 1 Tx slot	22.64	22.67	22.56	23.50	13.64	13.67	13.56	14.50
GPRS 2 Tx slots	21.59	21.72	21.55	22.50	15.59	15.72	15.55	16.50
GPRS 3 Tx slots	19.51	19.56	19.41	20.50	15.25	15.30	15.15	16.24
GPRS 4 Tx slots	19.40	19.44	19.24	19.50	15.40	15.44	15.24	16.50
EDGE 1 Tx slot	18.53	18.42	18.35	19.50	9.53	9.42	9.35	10.50
EDGE 2 Tx slots	17.38	17.00	17.02	18.00	11.38	11.00	11.02	12.00
EDGE 3 Tx slots	15.37	14.94	14.95	16.00	11.11	10.68	10.69	11.74
EDGE 4 Tx slots	14.03	14.08	13.89	15.00	11.03	11.08	10.89	12.00

Band TX Channel Frequency (MHz)	WCDMA # AnH0 EC17			Tune-up Limit (dBm)	WCDMA V AnH0 EC17			Tune-up Limit (dBm)
	9262	9400	9538		4132	4182	4233	
	1852.4	1800	1802.6		1852.4	1800	1802.6	
3GPP Rel 99 RMC 12.2kops	14.12	14.17	14.10	15.50	21.24	21.34	21.29	22.50
3GPP Rel 99 RMC 12.2kops	14.13	14.18	14.11	15.50	21.31	21.39	21.34	22.50
3GPP Rel 6 HSDPA Subtest-1	13.11	13.16	13.17	14.50	20.33	20.40	20.26	21.50
3GPP Rel 6 HSDPA Subtest-2	13.14	13.15	13.13	14.50	20.22	20.27	20.21	21.50
3GPP Rel 6 HSDPA Subtest-3	12.66	12.60	12.63	14.00	19.79	19.82	19.80	21.00
3GPP Rel 6 HSDPA Subtest-4	12.42	12.61	12.61	14.00	19.59	19.74	19.70	21.00
3GPP Rel 6 DCH-HSDPA Subtest-1	13.07	13.24	13.01	14.50	20.27	20.26	20.28	21.50
3GPP Rel 6 DCH-HSDPA Subtest-2	13.00	13.19	12.86	14.50	20.18	20.35	20.19	21.50
3GPP Rel 6 DCH-HSDPA Subtest-3	12.55	12.64	12.55	14.00	19.71	19.84	19.76	21.00
3GPP Rel 6 DCH-HSDPA Subtest-4	12.57	12.48	12.47	14.00	19.62	19.68	19.57	21.00
3GPP Rel 6 HSUPA Subtest-1	13.00	13.07	12.86	14.50	20.14	20.18	20.16	21.50
3GPP Rel 6 HSUPA Subtest-2	11.02	11.25	11.10	12.50	18.18	18.31	18.28	19.50
3GPP Rel 6 HSUPA Subtest-3	12.16	12.14	12.15	13.50	19.42	19.32	19.41	20.50
3GPP Rel 6 HSUPA Subtest-4	11.03	11.05	10.99	12.50	18.15	18.29	18.11	19.50
3GPP Rel 6 HSUPA Subtest-5	12.99	13.21	13.09	14.50	20.12	20.35	20.28	21.50
3GPP Rel 7 HSPA+ (L2CA) Subtest-1	10.60	10.86	10.65	12.00	17.81	17.86	17.83	19.00



Band 7 Ant1 EC17									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2050	2100	2150			
Frequency (MHz)				2510	2535	2590			
20	QPSK	1	0	17.99	18.00	17.95			
20	QPSK	1	49	17.82	17.86	17.99	19	0	
20	QPSK	1	99	17.80	18.00	18.00			
20	QPSK	50	0	17.98	18.01	17.94			
20	QPSK	50	24	17.82	18.00	17.99	19	0	
20	QPSK	50	50	17.83	17.99	17.85			
20	QPSK	100	0	17.88	17.93	17.86			
20	16QAM	1	0	17.86	17.96	17.96			
20	16QAM	1	49	17.83	17.86	17.93	19	0	
20	16QAM	1	99	17.83	18.01	17.80			
20	16QAM	50	0	17.78	17.85	17.93			
20	16QAM	50	24	17.86	18.04	17.80	19	0	
20	16QAM	50	50	17.86	17.93	17.99			
20	16QAM	100	0	17.77	17.92	17.83			
20	64QAM	1	0	17.75	18.04	17.99			
20	64QAM	1	49	17.90	17.86	17.97	19	0	
20	64QAM	1	99	17.76	18.02	17.84			
20	64QAM	50	0	17.84	18.03	17.97			
20	64QAM	50	24	17.79	17.92	17.94	19	0	
20	64QAM	50	50	17.91	17.99	17.83			
20	64QAM	100	0	17.86	18.05	17.87			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	17.91	18.05	17.93			
15	QPSK	1	37	17.91	18.00	17.98	19	0	
15	QPSK	1	74	17.74	17.98	17.95			
15	QPSK	36	0	18.02	18.02	17.88			
15	QPSK	36	20	17.82	17.96	17.98	19	0	
15	QPSK	36	39	17.96	18.02	17.79			
15	QPSK	75	0	17.84	17.86	17.78			
15	16QAM	1	0	17.76	17.88	17.93			
15	16QAM	1	37	17.85	17.78	17.97	19	0	
15	16QAM	1	74	17.83	18.02	17.74			
15	16QAM	36	0	17.69	17.81	17.86			
15	16QAM	36	20	17.83	18.06	17.78	19	0	
15	16QAM	36	39	17.85	17.85	17.95			
15	16QAM	75	0	17.80	17.86	17.78			
15	64QAM	1	0	17.70	17.97	17.96			
15	64QAM	1	37	17.81	17.86	17.89	19	0	
15	64QAM	1	74	17.77	18.01	17.95			
15	64QAM	36	0	17.78	17.88	17.93			
15	64QAM	36	20	17.72	17.94	17.95	19	0	
15	64QAM	36	39	17.87	18.00	17.75			
15	64QAM	75	0	17.87	18.00	17.99			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	18.02	17.99	17.91			
10	QPSK	1	25	17.83	17.99	17.99	19	0	
10	QPSK	1	49	17.84	17.93	17.95			
10	QPSK	25	0	17.90	17.99	17.87			
10	QPSK	25	12	17.83	17.96	17.96	19	0	
10	QPSK	25	25	17.85	17.95	17.82			
10	QPSK	50	0	17.82	17.95	17.78			
10	16QAM	1	0	17.76	17.91	17.97			
10	16QAM	1	25	17.86	17.87	17.87	19	0	
10	16QAM	1	49	17.76	17.92	17.75			
10	16QAM	25	0	17.73	17.75	17.96			
10	16QAM	25	12	17.79	17.94	17.72	19	0	
10	16QAM	25	25	17.76	17.97	17.99			
10	16QAM	50	0	17.78	17.88	17.79			
10	64QAM	1	0	17.72	18.04	17.92			
10	64QAM	1	25	17.90	17.78	17.95	19	0	
10	64QAM	1	49	17.77	18.03	17.96			
10	64QAM	25	0	17.75	18.01	17.99			
10	64QAM	25	12	17.81	17.85	17.87	19	0	
10	64QAM	25	25	17.83	17.95	17.80			
10	64QAM	50	0	17.85	17.99	17.99			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	18.01	18.03	17.96			
5	QPSK	1	12	17.86	17.98	17.96	19	0	
5	QPSK	1	24	17.73	17.93	18.00			
5	QPSK	12	0	18.01	18.05	17.86			
5	QPSK	12	7	17.87	17.93	17.91	19	0	
5	QPSK	12	13	17.82	17.92	17.79			
5	QPSK	25	0	17.81	17.93	17.81			
5	16QAM	1	0	17.67	17.93	17.89			
5	16QAM	1	12	17.84	17.84	17.84	19	0	
5	16QAM	1	24	17.78	17.99	17.79			
5	16QAM	12	0	17.79	17.80	17.86			
5	16QAM	12	7	17.77	18.00	17.72	19	0	
5	16QAM	12	13	17.76	17.90	18.01			
5	16QAM	25	0	17.71	17.85	17.73			
5	64QAM	1	0	17.71	17.97	18.02			
5	64QAM	1	12	17.83	17.88	17.88	19	0	
5	64QAM	1	24	17.69	17.98	17.87			
5	64QAM	12	0	17.86	18.04	17.93			
5	64QAM	12	7	17.79	17.92	17.89	19	0	
5	64QAM	12	13	17.84	17.94	17.83			
5	64QAM	25	0	17.88	18.05	18.00			



Band 42 FCC Part27Q EC17

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel								
Frequency (MHz)								
20	QPSK	1	0	14.38	14.42	14.39	16	0
20	QPSK	1	49	14.16	14.25	14.38		
20	QPSK	1	99	14.30	14.26	14.27		
20	QPSK	50	0	14.31	14.40	14.37	16	0
20	QPSK	50	24	14.15	14.28	14.22		
20	QPSK	50	50	14.16	14.23	14.28		
20	QPSK	100	0	14.28	14.36	14.33	16	0
20	16QAM	1	0	14.35	14.32	14.29		
20	16QAM	1	49	14.32	14.28	14.32		
20	16QAM	1	99	14.34	14.30	14.20	16	0
20	16QAM	50	0	14.33	14.28	14.13		
20	16QAM	50	24	14.20	14.36	14.23		
20	16QAM	50	50	14.29	14.23	14.19	16	0
20	16QAM	100	0	14.18	14.33	14.34		
20	64QAM	1	0	14.27	14.30	14.22		
20	64QAM	1	49	14.17	14.32	14.31	16	0
20	64QAM	1	99	14.21	14.30	14.16		
20	64QAM	50	0	14.23	14.35	14.29		
20	64QAM	50	24	14.21	14.40	14.30	16	0
20	64QAM	50	50	14.25	14.26	14.24		
20	64QAM	100	0	14.29	14.32	14.27		
Channel								
Frequency (MHz)								
15	QPSK	1	0	14.27	14.25	14.29	16	0
15	QPSK	1	37	14.19	14.06	14.36		
15	QPSK	1	74	14.14	14.23	14.19		
15	QPSK	36	0	14.23	14.27	14.23	16	0
15	QPSK	36	20	14.27	14.30	14.32		
15	QPSK	36	39	14.04	14.05	14.11		
15	QPSK	75	0	14.20	14.33	14.22	16	0
15	16QAM	1	0	14.25	14.23	14.21		
15	16QAM	1	37	14.16	14.19	14.27		
15	16QAM	1	74	14.31	14.19	14.10	16	0
15	16QAM	36	0	14.16	14.27	14.25		
15	16QAM	36	20	14.11	14.17	14.17		
15	16QAM	36	39	14.14	14.03	14.03	16	0
15	16QAM	75	0	14.00	14.29	14.21		
15	64QAM	1	0	14.25	14.23	14.21		
15	64QAM	1	37	14.16	14.18	14.19	16	0
15	64QAM	1	74	14.09	14.27	14.09		
15	64QAM	36	0	14.19	14.26	14.11		
15	64QAM	36	20	14.19	14.32	14.27	16	0
15	64QAM	36	39	14.11	14.25	14.19		
15	64QAM	75	0	14.14	14.21	14.16		
Channel								
Frequency (MHz)								
10	QPSK	1	0	14.25	14.34	14.24	16	0
10	QPSK	1	25	14.07	14.07	14.32		
10	QPSK	1	49	14.29	14.26	14.08		
10	QPSK	25	0	14.30	14.25	14.34	16	0
10	QPSK	25	12	14.28	14.24	14.27		
10	QPSK	25	25	14.21	14.31	14.19		
10	QPSK	50	0	14.13	14.29	14.17	16	0
10	16QAM	1	0	14.18	14.32	14.15		
10	16QAM	1	25	14.12	14.09	14.27		
10	16QAM	1	49	14.17	14.24	14.13	16	0
10	16QAM	25	0	14.26	14.27	14.07		
10	16QAM	25	12	14.14	14.25	14.21		
10	16QAM	25	25	14.16	14.22	14.11	16	0
10	16QAM	50	0	14.16	14.14	14.19		
10	64QAM	1	0	14.25	14.14	14.03		
10	64QAM	1	25	14.13	14.25	14.22	16	0
10	64QAM	1	49	14.03	14.15	14.03		
10	64QAM	25	0	14.06	14.19	14.23		
10	64QAM	25	12	14.13	14.39	14.26	16	0
10	64QAM	25	25	14.16	14.18	14.08		
10	64QAM	50	0	14.22	14.19	14.13		
Channel								
Frequency (MHz)								
5	QPSK	1	0	14.21	14.30	14.19	16	0
5	QPSK	1	12	14.03	14.09	14.28		
5	QPSK	1	24	14.10	14.23	14.14		
5	QPSK	12	0	14.12	14.26	14.27	16	0
5	QPSK	12	7	14.21	14.29	14.18		
5	QPSK	12	13	14.04	14.16	14.16		
5	QPSK	25	0	14.21	14.22	14.16	16	0
5	16QAM	1	0	14.35	14.28	14.25		
5	16QAM	1	12	14.19	14.15	14.22		
5	16QAM	1	24	14.30	14.21	14.17	16	0
5	16QAM	12	0	14.19	14.33	14.16		
5	16QAM	12	7	14.17	14.16	14.21		
5	16QAM	12	13	14.09	14.18	14.02	16	0
5	16QAM	25	0	14.03	14.29	14.23		
5	64QAM	1	0	14.25	14.23	14.09		
5	64QAM	1	12	14.13	14.27	14.17	16	0
5	64QAM	1	24	14.13	14.31	14.24		
5	64QAM	12	0	14.10	14.33	14.24		
5	64QAM	12	7	14.07	14.38	14.18	16	0
5	64QAM	12	13	14.21	14.12	14.12		
5	64QAM	25	0	14.13	14.23	14.08		



Default Power for WWAN Other PA

Band 7 Ant4 NSA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch./ Freq.	Middle Ch./ Freq.	High Ch./ Freq.			
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.79	22.93	22.80			
20	QPSK	1	49	22.56	22.86	22.64	24	0	
20	QPSK	1	99	22.51	22.86	22.59			
20	QPSK	50	0	21.80	21.88	21.76			
20	QPSK	50	24	21.61	21.85	21.74	23	1	
20	QPSK	50	50	21.77	21.88	21.77			
20	QPSK	100	0	21.76	21.81	21.63			
20	16QAM	1	0	21.84	21.76	21.70			
20	16QAM	1	49	21.62	21.78	21.79	23	1	
20	16QAM	1	99	21.65	21.75	21.56			
20	16QAM	50	0	20.73	20.83	20.79			
20	16QAM	50	24	20.68	20.80	20.72	22	2	
20	16QAM	50	50	20.64	20.89	20.54			
20	16QAM	100	0	20.72	20.89	20.72			
20	64QAM	1	0	20.81	20.74	20.63			
20	64QAM	1	49	20.46	20.84	20.52	22	2	
20	64QAM	1	99	20.42	20.63	20.61			
20	64QAM	50	0	19.71	19.88	19.84			
20	64QAM	50	24	19.75	19.84	19.71	21	3	
20	64QAM	50	50	19.68	19.86	19.81			
20	64QAM	100	0	19.75	19.82	19.73			
Channel				20935	21100	21315	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.81	22.85	22.90			
15	QPSK	1	37	22.53	22.85	22.55	24	0	
15	QPSK	1	74	22.66	22.68	22.66			
15	QPSK	36	0	21.88	21.84	21.76			
15	QPSK	36	20	21.77	21.93	21.84	23	1	
15	QPSK	36	39	21.68	21.77	21.61			
15	QPSK	75	0	21.54	21.96	21.82			
15	16QAM	1	0	21.78	21.92	21.69			
15	16QAM	1	37	21.80	21.65	21.75	23	1	
15	16QAM	1	74	21.68	21.65	21.69			
15	16QAM	36	0	20.83	20.98	20.81			
15	16QAM	36	20	20.72	20.77	20.83	22	2	
15	16QAM	36	39	20.88	20.82	20.55			
15	16QAM	75	0	20.58	20.85	20.74			
15	64QAM	1	0	20.78	20.85	20.64			
15	64QAM	1	37	20.50	20.63	20.54	22	2	
15	64QAM	1	74	20.54	20.67	20.66			
15	64QAM	36	0	19.72	19.83	19.69			
15	64QAM	36	20	19.75	19.71	19.84	21	3	
15	64QAM	36	39	19.87	19.89	19.77			
15	64QAM	75	0	19.77	19.92	19.84			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.81	22.87	22.76			
10	QPSK	1	25	22.74	22.68	22.64	24	0	
10	QPSK	1	49	22.62	22.70	22.48			
10	QPSK	25	0	21.83	21.82	21.72			
10	QPSK	25	12	21.61	21.79	21.76	23	1	
10	QPSK	25	25	21.71	21.84	21.80			
10	QPSK	50	0	21.53	21.83	21.78			
10	16QAM	1	0	21.81	21.83	21.74			
10	16QAM	1	25	21.62	21.69	21.56	23	1	
10	16QAM	1	49	21.47	21.72	21.59			
10	16QAM	25	0	20.89	21.00	20.86			
10	16QAM	25	12	20.59	20.91	20.81	22	2	
10	16QAM	25	25	20.74	20.87	20.84			
10	16QAM	50	0	20.75	20.92	20.62			
10	64QAM	1	0	20.85	20.77	20.67	22	2	
10	64QAM	1	25	20.64	20.65	20.64			
10	64QAM	1	49	20.46	20.66	20.61			
10	64QAM	25	0	19.59	19.83	19.85			
10	64QAM	25	12	19.69	19.75	19.72	21	3	
10	64QAM	25	25	19.74	19.81	19.92			
10	64QAM	50	0	19.62	19.62	19.69			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.82	22.78	22.84			
5	QPSK	1	12	22.67	22.70	22.67	24	0	
5	QPSK	1	24	22.49	22.80	22.66			
5	QPSK	12	0	21.92	21.90	21.86			
5	QPSK	12	7	21.75	21.89	21.60	23	1	
5	QPSK	12	13	21.79	21.70	21.72			
5	QPSK	25	0	21.55	21.89	21.62			
5	16QAM	1	0	21.86	21.80	21.70			
5	16QAM	1	12	21.66	21.71	21.70	23	1	
5	16QAM	1	24	21.49	21.83	21.70			
5	16QAM	12	0	20.81	21.00	20.82			
5	16QAM	12	7	20.76	20.79	20.62	22	2	
5	16QAM	12	13	20.75	20.86	20.57			
5	16QAM	25	0	20.65	20.80	20.57			
5	64QAM	1	0	20.89	20.75	20.50			
5	64QAM	1	12	20.50	20.61	20.69	22	2	
5	64QAM	1	24	20.50	20.70	20.62			
5	64QAM	12	0	19.62	19.76	19.75			
5	64QAM	12	7	19.58	19.67	19.77	21	3	
5	64QAM	12	13	19.80	19.72	19.79			
5	64QAM	25	0	19.71	19.87	19.80			



Reduced Power Mode for Other PA ECI2

Band 7 Ant4 NSA ECI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 2050	Power Middle Ch./Freq. 2100	Power High Ch./Freq. 2150	Tune-up limit (dBm)	MPR (dB)	
Channel				2510	2535	2560			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	13.37	13.47	13.43	14.5	0	
20	QPSK	1	49	13.19	13.29	13.24			
20	QPSK	1	99	13.23	13.32	13.18			
20	QPSK	50	0	13.40	13.45	13.39	14.5	0	
20	QPSK	50	24	13.12	13.25	13.30			
20	QPSK	50	50	13.11	13.38	13.13			
20	QPSK	100	0	13.35	13.37	13.31	14.5	0	
20	16QAM	1	0	13.24	13.34	13.28			
20	16QAM	1	49	13.12	13.25	13.21			
20	16QAM	1	99	13.27	13.24	13.15	14.5	0	
20	16QAM	50	0	13.17	13.28	13.33			
20	16QAM	50	24	13.24	13.40	13.22			
20	16QAM	50	50	13.34	13.43	13.20	14.5	0	
20	16QAM	100	0	13.14	13.46	13.27			
20	64QAM	1	0	13.12	13.43	13.25			
20	64QAM	1	49	13.23	13.45	13.32	14.5	0	
20	64QAM	1	99	13.27	13.42	13.27			
20	64QAM	50	0	13.25	13.46	13.26			
20	64QAM	50	24	13.14	13.43	13.30	14.5	0	
20	64QAM	50	50	13.30	13.46	13.18			
20	64QAM	100	0	13.13	13.33	13.24			
Channel				20825	21100	21375			
Frequency (MHz)				20825	21100	21375			
15	QPSK	1	0	13.35	13.44	13.43	14.5	0	
15	QPSK	1	37	13.16	13.15	13.13			
15	QPSK	1	74	13.12	13.35	13.09			
15	QPSK	36	0	13.38	13.40	13.33	14.5	0	
15	QPSK	36	20	12.95	13.16	13.15			
15	QPSK	36	39	13.05	13.27	13.11			
15	QPSK	75	0	13.33	13.36	13.25	14.5	0	
15	16QAM	1	0	13.10	13.33	13.07			
15	16QAM	1	37	13.11	13.13	13.15			
15	16QAM	1	74	13.24	13.05	13.17	14.5	0	
15	16QAM	36	0	13.11	13.28	13.28			
15	16QAM	36	20	13.07	13.24	13.15			
15	16QAM	36	39	13.32	13.38	13.00	14.5	0	
15	16QAM	75	0	13.11	13.32	13.24			
15	64QAM	1	0	13.14	13.28	13.07			
15	64QAM	1	37	13.21	13.28	13.18	14.5	0	
15	64QAM	1	74	13.08	13.41	13.13			
15	64QAM	36	0	13.22	13.30	13.27			
15	64QAM	36	20	13.01	13.28	13.27	14.5	0	
15	64QAM	36	39	13.22	13.24	13.00			
15	64QAM	75	0	12.94	13.35	13.24			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	13.25	13.35	13.28	14.5	0	
10	QPSK	1	25	13.05	13.28	13.13			
10	QPSK	1	49	13.25	13.15	13.14			
10	QPSK	25	0	13.20	13.35	13.25	14.5	0	
10	QPSK	25	12	13.03	13.26	13.25			
10	QPSK	25	25	13.09	13.33	12.99			
10	QPSK	50	0	13.16	13.38	13.29	14.5	0	
10	16QAM	1	0	13.07	13.17	13.11			
10	16QAM	1	25	13.09	13.12	13.13			
10	16QAM	1	49	13.20	13.24	12.99	14.5	0	
10	16QAM	25	0	13.00	13.13	13.30			
10	16QAM	25	12	13.18	13.40	13.13			
10	16QAM	25	25	13.17	13.44	13.00	14.5	0	
10	16QAM	50	0	13.00	13.45	13.07			
10	64QAM	1	0	12.99	13.40	13.07			
10	64QAM	1	25	13.08	13.25	13.20	14.5	0	
10	64QAM	1	49	13.17	13.35	13.12			
10	64QAM	25	0	13.11	13.46	13.18			
10	64QAM	25	12	12.99	13.33	13.20	14.5	0	
10	64QAM	25	25	13.10	13.37	13.20			
10	64QAM	50	0	13.00	13.13	13.23			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	13.36	13.41	13.23	14.5	0	
5	QPSK	1	12	13.05	13.29	13.08			
5	QPSK	1	24	13.03	13.11	13.21			
5	QPSK	12	0	13.37	13.46	13.28	14.5	0	
5	QPSK	12	7	13.00	13.11	13.16			
5	QPSK	12	13	12.96	13.39	13.12			
5	QPSK	25	0	13.34	13.32	13.18	14.5	0	
5	16QAM	1	0	13.16	13.13	13.28			
5	16QAM	1	12	13.10	13.11	13.11			
5	16QAM	1	24	13.25	13.14	12.96	14.5	0	
5	16QAM	12	0	13.01	13.28	13.27			
5	16QAM	12	7	13.19	13.35	13.15			
5	16QAM	12	13	13.36	13.37	13.06	14.5	0	
5	16QAM	25	0	13.02	13.36	13.24			
5	64QAM	1	0	12.93	13.27	13.19			
5	64QAM	1	12	13.14	13.35	13.12	14.5	0	
5	64QAM	1	24	13.07	13.23	13.23			
5	64QAM	12	0	13.17	13.43	13.18			
5	64QAM	12	7	13.11	13.23	13.13	14.5	0	
5	64QAM	12	13	13.29	13.30	13.07			
5	64QAM	25	0	13.02	13.24	13.07			



Reduced Power Mode for Other PA ECI3

Band 7 Ant4 NSA ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 2050	Power Middle Ch./Freq. 2100	Power High Ch./Freq. 2150	Tune-up limit (dBm)	MPR (dB)	
Channel				2510	2535	2560			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	16.02	16.07	15.97			
20	QPSK	1	49	15.48	15.88	15.89	17	0	
20	QPSK	1	99	15.68	15.83	15.65			
20	QPSK	50	0	15.81	15.91	15.81			
20	QPSK	50	24	15.68	15.88	15.67	17	0	
20	QPSK	50	50	15.68	15.83	15.71			
20	QPSK	100	0	15.85	15.87	15.67			
20	16QAM	1	0	15.49	15.84	15.58			
20	16QAM	1	49	15.73	15.84	15.67	17	0	
20	16QAM	1	99	15.69	15.83	15.82			
20	16QAM	50	0	15.73	15.83	15.74			
20	16QAM	50	24	15.58	15.77	15.67	17	0	
20	16QAM	50	50	15.72	15.84	15.69			
20	16QAM	100	0	15.82	15.79	15.68			
20	64QAM	1	0	15.83	15.85	15.64			
20	64QAM	1	49	15.65	15.77	15.70	17	0	
20	64QAM	1	99	15.66	15.74	15.66			
20	64QAM	50	0	15.84	15.70	15.60			
20	64QAM	50	24	15.70	15.88	15.83	17	0	
20	64QAM	50	50	15.69	15.88	15.74			
20	64QAM	100	0	15.85	15.81	15.70			
Channel				20825	21100	21375			
Frequency (MHz)				20825	21100	21375			
15	QPSK	1	0	15.79	16.05	15.88			
15	QPSK	1	37	15.55	15.74	15.56	17	0	
15	QPSK	1	74	15.61	15.76	15.50			
15	QPSK	36	0	15.73	16.02	15.70			
15	QPSK	36	20	15.82	15.73	15.79	17	0	
15	QPSK	36	39	15.57	15.85	15.75			
15	QPSK	75	0	15.67	16.02	15.72			
15	16QAM	1	0	15.48	15.81	15.57			
15	16QAM	1	37	15.79	15.80	15.78	17	0	
15	16QAM	1	74	15.66	15.83	15.81			
15	16QAM	36	0	15.80	15.83	15.60			
15	16QAM	36	20	15.39	15.75	15.68	17	0	
15	16QAM	36	39	15.81	15.79	15.74			
15	16QAM	75	0	15.65	15.80	15.57			
15	64QAM	1	0	15.72	15.84	15.60			
15	64QAM	1	37	15.70	15.57	15.75	17	0	
15	64QAM	1	74	15.64	15.76	15.50			
15	64QAM	36	0	15.68	15.70	15.78			
15	64QAM	36	20	15.57	15.70	15.72	17	0	
15	64QAM	36	39	15.68	15.88	15.75			
15	64QAM	75	0	15.56	15.82	15.74			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	15.83	15.82	15.71			
10	QPSK	1	25	15.64	15.94	15.66	17	0	
10	QPSK	1	49	15.65	15.64	15.65			
10	QPSK	25	0	15.83	16.02	15.88			
10	QPSK	25	12	15.54	15.67	15.73	17	0	
10	QPSK	25	25	15.67	15.81	15.64			
10	QPSK	50	0	15.76	15.81	15.76			
10	16QAM	1	0	15.80	15.77	15.80			
10	16QAM	1	25	15.55	15.85	15.68	17	0	
10	16QAM	1	49	15.56	15.73	15.64			
10	16QAM	25	0	15.75	15.79	15.68			
10	16QAM	25	12	15.49	15.70	15.49	17	0	
10	16QAM	25	25	15.80	15.69	15.74			
10	16QAM	50	0	15.66	15.82	15.73			
10	64QAM	1	0	15.80	15.88	15.73			
10	64QAM	1	25	15.65	15.94	15.68	17	0	
10	64QAM	1	49	15.80	15.71	15.58			
10	64QAM	25	0	15.78	15.58	15.60			
10	64QAM	25	12	15.56	15.75	15.74	17	0	
10	64QAM	25	25	15.85	15.86	15.75			
10	64QAM	50	0	15.49	15.82	15.83			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	15.68	15.78	16.02			
5	QPSK	1	12	15.68	15.60	15.84	17	0	
5	QPSK	1	24	15.52	15.87	15.66			
5	QPSK	12	0	15.57	15.83	15.70			
5	QPSK	12	7	15.47	15.79	15.56	17	0	
5	QPSK	12	13	15.50	15.78	15.49			
5	QPSK	25	0	15.76	15.86	15.82			
5	16QAM	1	0	15.48	15.81	15.72			
5	16QAM	1	12	15.90	15.76	15.69	17	0	
5	16QAM	1	24	15.65	16.00	15.75			
5	16QAM	12	0	15.64	15.69	15.53			
5	16QAM	12	7	15.51	15.86	15.66	17	0	
5	16QAM	12	13	15.46	15.71	15.55			
5	16QAM	25	0	15.71	15.86	15.80			
5	64QAM	1	0	15.66	15.69	15.75			
5	64QAM	1	12	15.80	15.84	15.46	17	0	
5	64QAM	1	24	15.63	15.67	15.47			
5	64QAM	12	0	15.72	15.51	15.56			
5	64QAM	12	7	15.74	15.83	15.73	17	0	
5	64QAM	12	13	15.67	15.81	15.77			
5	64QAM	25	0	15.63	15.94	15.83			



Reduced Power Mode for Other PA ECI6

Band 7 Ant4 NSA ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 2050	Power Middle Ch./Freq. 2100	Power High Ch./Freq. 2150	Tune-up limit (dBm)	MPR (dB)	
Channel				2510	2535	2560			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	17.94	18.09	18.03	19	0	
20	QPSK	1	49	17.40	17.76	17.84			
20	QPSK	1	99	17.62	17.91	17.59			
20	QPSK	50	0	17.74	18.03	17.80	19	0	
20	QPSK	50	24	17.64	17.88	17.69			
20	QPSK	50	50	17.67	17.72	17.81			
20	QPSK	100	0	17.81	17.88	17.85			
20	16QAM	1	0	17.44	17.87	17.64	19	0	
20	16QAM	1	49	17.70	17.91	17.59			
20	16QAM	1	99	17.65	18.02	17.76			
20	16QAM	50	0	17.65	17.79	17.65	19	0	
20	16QAM	50	24	17.65	17.72	17.77			
20	16QAM	50	50	17.74	17.84	17.73			
20	16QAM	100	0	17.63	17.77	17.58			
20	64QAM	1	0	17.74	17.80	17.69	19	0	
20	64QAM	1	49	17.55	17.85	17.74			
20	64QAM	1	99	17.57	17.83	17.60			
20	64QAM	50	0	17.65	17.69	17.57	19	0	
20	64QAM	50	24	17.68	17.86	17.80			
20	64QAM	50	50	17.77	18.00	17.63			
20	64QAM	100	0	17.72	17.82	17.81			
Channel				20825	21100	21375			
Frequency (MHz)				20825	21100	21375			
15	QPSK	1	0	17.77	18.02	17.71	19	0	
15	QPSK	1	37	17.48	17.62	17.53			
15	QPSK	1	74	17.51	17.84	17.39			
15	QPSK	36	0	17.77	18.04	17.58	19	0	
15	QPSK	36	20	17.43	17.68	17.72			
15	QPSK	36	39	17.68	17.88	17.70			
15	QPSK	75	0	17.66	18.03	17.63	19	0	
15	16QAM	1	0	17.37	17.72	17.60	19	0	
15	16QAM	1	37	17.68	17.79	17.88			
15	16QAM	1	74	17.75	17.85	17.64			
15	16QAM	36	0	17.75	17.78	17.69	19	0	
15	16QAM	36	20	17.45	17.81	17.77			
15	16QAM	36	39	17.49	17.79	17.71			
15	16QAM	75	0	17.65	17.64	17.63	19	0	
15	64QAM	1	0	17.73	17.80	17.71	19	0	
15	64QAM	1	37	17.61	17.67	17.74			
15	64QAM	1	74	17.60	17.81	17.40			
15	64QAM	36	0	17.62	17.72	17.88	19	0	
15	64QAM	36	20	17.64	17.73	17.62			
15	64QAM	36	39	17.75	17.64	17.78			
15	64QAM	75	0	17.65	17.79	17.77			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	17.93	17.87	17.62	19	0	
10	QPSK	1	25	17.69	17.92	17.78			
10	QPSK	1	49	17.58	17.65	17.60			
10	QPSK	25	0	17.87	18.04	17.90	19	0	
10	QPSK	25	12	17.43	17.62	17.75			
10	QPSK	25	25	17.68	17.83	17.61			
10	QPSK	50	0	17.81	17.80	17.86	19	0	
10	16QAM	1	0	17.55	17.73	17.63			
10	16QAM	1	25	17.67	17.96	17.60	19	0	
10	16QAM	1	49	17.46	17.92	17.66			
10	16QAM	25	0	17.73	17.78	17.68	19	0	
10	16QAM	25	12	17.48	17.77	17.53			
10	16QAM	25	25	17.75	17.78	17.73			
10	16QAM	50	0	17.56	17.74	17.71			
10	64QAM	1	0	17.75	17.90	17.62	19	0	
10	64QAM	1	25	17.66	17.99	17.73			
10	64QAM	1	49	17.69	17.80	17.69			
10	64QAM	25	0	17.80	17.58	17.58	19	0	
10	64QAM	25	12	17.58	17.79	17.66			
10	64QAM	25	25	17.81	17.81	17.73			
10	64QAM	50	0	17.46	17.81	17.80			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	17.64	17.69	18.05	19	0	
5	QPSK	1	12	17.80	17.67	17.78			
5	QPSK	1	24	17.40	17.78	17.61			
5	QPSK	12	0	17.66	17.76	17.78	19	0	
5	QPSK	12	7	17.40	17.83	17.55			
5	QPSK	12	13	17.60	17.74	17.52			
5	QPSK	25	0	17.69	17.96	17.63	19	0	
5	16QAM	1	0	17.40	17.84	17.66			
5	16QAM	1	12	17.82	17.70	17.72			
5	16QAM	1	24	17.77	18.01	17.72			
5	16QAM	12	0	17.68	17.67	17.44	19	0	
5	16QAM	12	7	17.53	17.83	17.73			
5	16QAM	12	13	17.59	17.74	17.51			
5	16QAM	25	0	17.66	17.82	17.84	19	0	
5	64QAM	1	0	17.65	17.75	17.80			
5	64QAM	1	12	17.72	17.85	17.39			
5	64QAM	1	24	17.54	17.73	17.46			
5	64QAM	12	0	17.74	17.61	17.64	19	0	
5	64QAM	12	7	17.76	18.01	17.80			
5	64QAM	12	13	17.77	17.83	17.72			
5	64QAM	25	0	17.57	17.95	17.71			



Reduced Power Mode for Other PA ECI7

Band 7 Ant4 NSA ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 2550	Power Middle Ch./Freq. 2100	Power High Ch./Freq. 2550	Tune-up limit (dBm)	MPR (dB)	
Channel				2510	2535	2560			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	11.44	11.46	11.39	12.5	0	
20	QPSK	1	49	11.09	11.33	11.32			
20	QPSK	1	99	11.12	11.36	11.22			
20	QPSK	50	0	11.34	11.43	11.37	12.5	0	
20	QPSK	50	24	11.10	11.34	11.18			
20	QPSK	50	50	11.22	11.42	11.22			
20	QPSK	100	0	11.31	11.39	11.27	12.5	0	
20	16QAM	1	0	11.10	11.37	11.15			
20	16QAM	1	49	11.29	11.40	11.26			
20	16QAM	1	99	11.18	11.39	11.27	12.5	0	
20	16QAM	50	0	11.25	11.28	11.24			
20	16QAM	50	24	11.08	11.35	11.26			
20	16QAM	50	50	11.25	11.24	11.29	12.5	0	
20	16QAM	100	0	11.13	11.34	11.21			
20	64QAM	1	0	11.26	11.45	11.23			
20	64QAM	1	49	11.20	11.37	11.18	12.5	0	
20	64QAM	1	99	11.25	11.29	11.16			
20	64QAM	50	0	11.26	11.30	11.12			
20	64QAM	50	24	11.24	11.43	11.26	12.5	0	
20	64QAM	50	50	11.23	11.40	11.29			
20	64QAM	100	0	11.14	11.38	11.28			
Channel				20825	21100	21375			
Frequency (MHz)				20825	21100	21375			
15	QPSK	1	0	11.31	11.44	11.28	12.5	0	
15	QPSK	1	37	11.08	11.17	11.18			
15	QPSK	1	74	11.05	11.19	11.06			
15	QPSK	36	0	11.18	11.43	11.26	12.5	0	
15	QPSK	36	20	11.10	11.18	11.19			
15	QPSK	36	39	11.12	11.26	11.15			
15	QPSK	75	0	11.21	11.42	11.11	12.5	0	
15	16QAM	1	0	11.04	11.37	11.02			
15	16QAM	1	37	11.17	11.31	11.31			
15	16QAM	1	74	11.07	11.35	11.13	12.5	0	
15	16QAM	36	0	11.24	11.22	11.13			
15	16QAM	36	20	10.97	11.18	11.28			
15	16QAM	36	39	11.18	11.22	11.31	12.5	0	
15	16QAM	75	0	11.16	11.15	11.03			
15	64QAM	1	0	11.21	11.35	11.20			
15	64QAM	1	37	11.18	11.19	11.22	12.5	0	
15	64QAM	1	74	11.26	11.17	11.05			
15	64QAM	36	0	11.08	11.27	11.17			
15	64QAM	36	20	11.10	11.26	11.11	12.5	0	
15	64QAM	36	39	11.17	11.24	11.20			
15	64QAM	75	0	11.00	11.42	11.23			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	11.40	11.41	11.24	12.5	0	
10	QPSK	1	25	11.13	11.35	11.19			
10	QPSK	1	49	11.03	11.25	11.14			
10	QPSK	25	0	11.23	11.42	11.39	12.5	0	
10	QPSK	25	12	10.98	11.19	11.17			
10	QPSK	25	25	11.08	11.39	11.20			
10	QPSK	50	0	11.29	11.41	11.25	12.5	0	
10	16QAM	1	0	11.06	11.32	11.17			
10	16QAM	1	25	11.17	11.27	11.10			
10	16QAM	1	49	11.07	11.31	11.15	12.5	0	
10	16QAM	25	0	11.27	11.19	11.24			
10	16QAM	25	12	11.08	11.30	11.09			
10	16QAM	25	25	11.29	11.24	11.22	12.5	0	
10	16QAM	50	0	11.14	11.24	11.13			
10	64QAM	1	0	11.23	11.37	11.19			
10	64QAM	1	25	11.23	11.34	11.19	12.5	0	
10	64QAM	1	49	11.30	11.25	11.01			
10	64QAM	25	0	11.23	11.18	11.02			
10	64QAM	25	12	11.10	11.28	11.28	12.5	0	
10	64QAM	25	25	11.24	11.31	11.24			
10	64QAM	50	0	11.06	11.28	11.24			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	11.28	11.33	11.44	12.5	0	
5	QPSK	1	12	11.19	11.20	11.28			
5	QPSK	1	24	11.14	11.32	11.21			
5	QPSK	12	0	11.16	11.44	11.23	12.5	0	
5	QPSK	12	7	11.05	11.21	11.18			
5	QPSK	12	13	11.08	11.23	11.05			
5	QPSK	25	0	11.22	11.43	11.26	12.5	0	
5	16QAM	1	0	11.06	11.41	11.19			
5	16QAM	1	12	11.33	11.35	11.17			
5	16QAM	1	24	11.22	11.38	11.24	12.5	0	
5	16QAM	12	0	11.24	11.24	11.09			
5	16QAM	12	7	11.12	11.27	11.27			
5	16QAM	12	13	11.08	11.20	11.10	12.5	0	
5	16QAM	25	0	11.09	11.24	11.21			
5	64QAM	1	0	11.15	11.30	11.16			
5	64QAM	1	12	11.22	11.38	11.01	12.5	0	
5	64QAM	1	24	11.23	11.17	11.08			
5	64QAM	12	0	11.27	11.13	11.02			
5	64QAM	12	7	11.15	11.45	11.30	12.5	0	
5	64QAM	12	13	11.11	11.24	11.17			
5	64QAM	25	0	11.05	11.38	11.26			



Default Power for FR1 Main PA

n5 Ant0 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				167300				
Frequency (MHz)				836.5				
25	PI/2 BPSK	1	1	22.86			24.0	0.0
25	PI/2 BPSK	1	64	22.83				
25	PI/2 BPSK	1	131	22.77				
25	PI/2 BPSK	64	0	22.38			23.5	0.5
25	PI/2 BPSK	64	33	22.81			24.0	0.0
25	PI/2 BPSK	64	65	22.37			23.5	0.5
25	PI/2 BPSK	128	0	22.37				
25	QPSK	1	1	22.92			24.0	0.0
25	QPSK	1	64	22.84				
25	QPSK	1	131	22.75				
25	QPSK	64	0	21.89			23.0	1.0
25	QPSK	64	33	22.87			24.0	0.0
25	QPSK	64	65	21.83			23.0	1.0
25	QPSK	128	0	21.84				
25	16QAM	1	1	21.74			23.0	1.0
25	64QAM	1	1	20.04			21.5	2.5
25	256QAM	1	1	18.71			19.5	4.5
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	QPSK	1	1	22.64	22.74	22.52	24.0	0.0
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.69	22.84	22.62	24.0	0.0
Channel				163800	167300	169900		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.72	22.77	22.59	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.64	22.86	22.61	24.0	0.0

n26 Ant0 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164800				
Frequency (MHz)				824				
20	PI/2 BPSK	1	1	22.70	22.89	22.76	24.0	0.0
20	PI/2 BPSK	1	53	22.69	22.86	22.71		
20	PI/2 BPSK	1	104	22.57	22.77	22.68		
20	PI/2 BPSK	50	0	22.38	22.56	22.48	23.5	0.5
20	PI/2 BPSK	50	28	22.68	22.87	22.75	24.0	0.0
20	PI/2 BPSK	50	56	22.23	22.45	22.31	23.5	0.5
20	PI/2 BPSK	100	0	22.32	22.51	22.37		
20	QPSK	1	1	22.76	22.94	22.81	24.0	0.0
20	QPSK	1	53	22.71	22.89	22.79		
20	QPSK	1	104	22.53	22.74	22.62		
20	QPSK	50	0	21.79	21.98	21.83	23.0	1.0
20	QPSK	50	28	22.70	22.89	22.75	24.0	0.0
20	QPSK	50	56	21.67	21.91	21.84	23.0	1.0
20	QPSK	100	0	21.79	21.96	21.82		
20	16QAM	1	1	21.31	21.56	21.43	23.0	1.0
20	64QAM	1	1	19.87	20.08	19.99	21.5	2.5
20	256QAM	1	1	18.51	18.71	18.64	19.5	4.5
Channel				164300	166300	168300		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.68	22.80	22.70	24.0	0.0
Channel				163800	166300	168900		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	22.69	22.85	22.70	24.0	0.0
Channel				163300	166300	169300		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.71	22.81	22.89	24.0	0.0



n7 Ant1 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	22.85	22.95	22.80		
50	PI/2 BPSK	1	135	22.73	22.85	22.65	24.0	0.0
50	PI/2 BPSK	1	268	22.49	22.55	22.36		
50	PI/2 BPSK	135	0	22.19	22.31	22.14	23.5	0.5
50	PI/2 BPSK	135	68	22.29	22.41	22.19	24.0	0.0
50	PI/2 BPSK	135	135	22.23	22.34	22.16		
50	PI/2 BPSK	270	0	22.22	22.33	22.14	23.5	0.5
50	QPSK	1	1	22.89	22.98	22.81		
50	QPSK	1	135	22.66	22.79	22.55	24.0	0.0
50	QPSK	1	268	22.38	22.47	22.25		
50	QPSK	135	0	21.69	21.81	21.61	23.0	1.0
50	QPSK	135	68	22.82	22.93	22.70	24.0	0.0
50	QPSK	135	135	21.70	21.82	21.57		
50	QPSK	270	0	21.66	21.78	21.54	23.0	1.0
50	16QAM	1	1	21.10	21.19	21.07	23.0	1.0
50	64QAM	1	1	19.81	19.90	19.72	21.5	2.5
50	256QAM	1	1	18.49	18.59	18.38	19.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	22.83	22.86	22.69	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.83	22.83	22.74	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.83	22.88	22.68	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.76	22.84	22.69	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.80	22.90	22.68	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.79	22.87	22.74	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.77	22.89	22.72	24.0	0.0



Part270 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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.71	20.67	20.76		
100	PI/2 BPSK	1	137	19.19	19.82	19.77	22.5	0.0
100	PI/2 BPSK	1	271	19.76	19.88	19.77		
100	PI/2 BPSK	135	0	20.49	20.46	20.30	22.5	0.0
100	PI/2 BPSK	135	69	20.69	20.72	20.50	22.5	0.0
100	PI/2 BPSK	135	138	20.39	20.34	20.33	22.5	0.0
100	PI/2 BPSK	270	0	20.35	20.26	20.20		
100	QPSK	1	1	19.46	20.01	19.85		
100	QPSK	1	137	20.83	20.85	20.81	22.5	0.0
100	QPSK	1	271	19.90	19.97	19.93		
100	QPSK	135	0	20.53	20.59	20.55	22.5	0.0
100	QPSK	135	69	20.75	20.78	20.70	22.5	0.0
100	QPSK	135	138	20.54	20.59	20.57	22.5	0.0
100	QPSK	270	0	20.49	20.53	20.47		
100	16QAM	1	1	20.58	20.56	20.68	22.5	0.0
100	64QAM	1	1	20.46	20.57	20.72	22.5	0.0
100	256QAM	1	1	20.55	20.47	20.68	22.5	0.0
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	20.47	20.50	20.52	22.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	20.60	20.46	20.73	22.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	20.63	20.51	20.65	22.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	20.49	20.47	20.57	22.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	20.62	20.58	20.66	22.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	20.46	20.60	20.67	22.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	20.57	20.63	20.50	22.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	20.59	20.45	20.66	22.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	20.65	20.56	20.51	22.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	20.60	20.58	20.72	22.5	0.0

Part270 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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.10	20.57	20.11		
100	PI/2 BPSK	1	137	21.06	21.55	21.12	23.5	0.0
100	PI/2 BPSK	1	271	19.72	20.15	19.76		
100	PI/2 BPSK	135	0	20.52	20.97	20.54	22.5	1.0
100	PI/2 BPSK	135	69	20.90	21.48	21.20	23.5	0.0
100	PI/2 BPSK	135	138	20.53	21.08	20.60	22.5	1.0
100	PI/2 BPSK	270	0	20.56	20.95	20.59		
100	QPSK	1	1	20.04	20.58	20.22		
100	QPSK	1	137	21.35	21.75	21.39	23.5	0.0
100	QPSK	1	271	19.21	19.78	19.32		
100	QPSK	135	0	19.81	20.41	19.96	22.5	1.0
100	QPSK	135	69	21.00	21.62	21.20	23.5	0.0
100	QPSK	135	138	20.05	20.51	20.19	22.5	1.0
100	QPSK	270	0	19.91	20.59	19.96		
100	16QAM	1	1	19.17	19.76	19.41	21.5	2.0
100	64QAM	1	1	17.79	18.29	17.99	20.0	3.5
100	256QAM	1	1	15.92	16.26	16.01	18.0	5.5
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	21.10	21.54	21.21	23.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	21.19	21.69	21.22	23.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	21.17	21.66	21.27	23.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	21.08	21.56	21.25	23.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	21.23	21.84	21.21	23.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	21.24	21.62	21.25	23.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	21.22	21.70	21.18	23.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	21.09	21.54	21.26	23.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	21.26	21.83	21.14	23.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	21.10	21.70	21.25	23.5	0.0



Part270 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									
Frequency (MHz)									
100	Pi/2 BPSK	1	1	20.45					
100	Pi/2 BPSK	1	137	21.08			22.5	0.0	
100	Pi/2 BPSK	1	271	20.68					
100	Pi/2 BPSK	135	0	20.96			22.0	0.5	
100	Pi/2 BPSK	135	69	21.03			22.5	0.0	
100	Pi/2 BPSK	135	138	21.26					
100	Pi/2 BPSK	270	0	21.10			22.0	0.5	
100	QPSK	1	1	20.33					
100	QPSK	1	137	21.50			22.5	0.0	
100	QPSK	1	271	20.77					
100	QPSK	135	0	20.97			22.0	0.5	
100	QPSK	135	69	21.17			22.5	0.0	
100	QPSK	135	138	21.10					
100	QPSK	270	0	20.91			22.0	0.5	
100	16QAM	1	1	20.07			21.0	1.5	
100	64QAM	1	1	20.14			21.0	1.5	
100	256QAM	1	1	19.25			20.5	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	120	21.26	21.31	21.27	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.06	21.19	21.22	22.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	21.20	21.26	21.19	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.19	21.16	21.17	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.22	21.18	21.14	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.09	21.15	21.06	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	21.03	21.15	21.13	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.08	21.28	21.15	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	21.03	21.28	21.18	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	21.04	21.23	21.01	22.5	0.0	

Part270 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									
Frequency (MHz)									
100	Pi/2 BPSK	1	1						
100	Pi/2 BPSK	1	137				23.5	0.0	
100	Pi/2 BPSK	1	271						
100	Pi/2 BPSK	135	0				22.5	1.0	
100	Pi/2 BPSK	135	69				23.5	0.0	
100	Pi/2 BPSK	135	138						
100	Pi/2 BPSK	270	0				22.5	1.0	
100	QPSK	1	1						
100	QPSK	1	137				23.5	0.0	
100	QPSK	1	271						
100	QPSK	135	0				22.5	1.0	
100	QPSK	135	69				23.5	0.0	
100	QPSK	135	138						
100	QPSK	270	0				22.5	1.0	
100	16QAM	1	1				22.0	1.5	
100	64QAM	1	1				20.5	3.0	
100	256QAM	1	1				18.5	5.0	
Channel									
Frequency (MHz)									
90	QPSK	1	120	21.84	22.05	22.02	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.68	21.67	21.79	23.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	21.88	21.85	21.83	23.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.84	21.81	21.79	23.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.67	21.80	21.92	23.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.85	21.83	21.80	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	21.71	21.84	21.84	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.84	21.91	21.99	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	21.75	22.00	21.75	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	21.69	21.80	21.85	23.5	0.0	



Part270 n77 Main PA Ant2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.78	20.86	20.82	23.0	0.0
100	PI/2 BPSK	1	137	21.37	21.44	21.34		
100	PI/2 BPSK	1	271	20.46	20.51	20.45		
100	PI/2 BPSK	135	0	21.36	21.45	21.40	22.5	0.5
100	PI/2 BPSK	135	69	21.56	21.59	21.54	23.0	0.0
100	PI/2 BPSK	135	138	21.20	21.26	21.21	22.5	0.5
100	PI/2 BPSK	270	0	21.33	21.35	21.29		
100	QPSK	1	1	20.85	20.97	20.55	23.0	0.0
100	QPSK	1	137	21.34	21.62	21.37		
100	QPSK	1	271	20.45	20.50	20.45		
100	QPSK	135	0	21.37	21.42	21.39	22.5	0.5
100	QPSK	135	69	21.44	21.53	21.44	23.0	0.0
100	QPSK	135	138	21.18	21.22	21.15	22.5	0.5
100	QPSK	270	0	21.22	21.28	21.23		
100	16QAM	1	1	20.63	20.71	20.63	23.0	0.0
100	64QAM	1	1	20.70	20.72	20.63	23.0	0.0
100	256QAM	1	1	19.80	19.86	19.78	22.0	1.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	21.08	21.51	21.19	23.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	21.13	21.39	21.30	23.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	21.28	21.35	21.17	23.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	21.10	21.57	21.27	23.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	21.10	21.59	21.12	23.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	21.27	21.41	21.13	23.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	21.23	21.52	21.22	23.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	21.25	21.54	21.28	23.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	21.13	21.49	21.10	23.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	21.18	21.45	21.24	23.0	0.0

Part270 n77 PC2 Main PA Ant2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.09	22.14	22.09	24.5	0.0
100	PI/2 BPSK	1	137	22.59	22.62	22.53		
100	PI/2 BPSK	1	271	20.73	20.77	20.68		
100	PI/2 BPSK	135	0	22.33	22.36	22.29	23.5	1.0
100	PI/2 BPSK	135	69	22.67	22.72	22.67	24.5	0.0
100	PI/2 BPSK	135	138	22.08	22.14	22.08	23.5	1.0
100	PI/2 BPSK	270	0	22.16	22.18	22.11		
100	QPSK	1	1	21.96	22.04	21.43	24.5	0.0
100	QPSK	1	137	22.54	22.73	22.57	22.5	2.0
100	QPSK	1	271	21.98	20.78	22.00		
100	QPSK	135	0	21.30	21.73	21.32		
100	QPSK	135	69	22.46	22.65	22.45	24.5	0.0
100	QPSK	135	138	21.33	21.36	21.35	23.5	1.0
100	QPSK	270	0	21.29	21.63	21.28		
100	16QAM	1	1	20.69	21.33	20.74	23.5	1.0
100	64QAM	1	1	19.45	19.85	19.39	22.0	2.5
100	256QAM	1	1	18.15	17.05	18.13	19.0	5.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	22.57	22.65	22.50	24.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	22.50	22.66	22.59	24.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	22.50	22.68	22.50	24.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	22.50	22.83	22.53	24.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	22.52	22.89	22.53	24.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	22.58	22.64	22.59	24.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	22.50	22.65	22.50	24.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	22.58	22.64	22.54	24.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	22.52	22.86	22.52	24.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	22.50	22.65	22.59	24.5	0.0



Part270 n78 Main PA Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi/2 BPSK	1	1	20.54					
100	Pi/2 BPSK	1	137	21.21			23.0	0.0	
100	Pi/2 BPSK	1	271	20.57					
100	Pi/2 BPSK	135	0	21.11			23.0	0.0	
100	Pi/2 BPSK	135	69	21.35			23.0	0.0	
100	Pi/2 BPSK	135	138	21.18			23.0	0.0	
100	Pi/2 BPSK	270	0	21.14					
100	QPSK	1	1	20.59					
100	QPSK	1	137	21.40			23.0	0.0	
100	QPSK	1	271	20.58					
100	QPSK	135	0	21.17			23.0	0.0	
100	QPSK	135	69	21.35			23.0	0.0	
100	QPSK	135	138	21.18			23.0	0.0	
100	QPSK	270	0	21.17			23.0	0.0	
100	16QAM	1	1	20.37			22.0	1.0	
100	64QAM	1	1	20.41			22.0	1.0	
100	256QAM	1	1	19.48			21.0	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	120	21.27	21.15	21.35	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.35	21.34	21.19	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	21.21	21.15	21.29	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.16	21.23	21.13	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.31	21.31	21.26	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.35	21.20	21.20	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	21.29	21.26	21.22	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.17	21.16	21.15	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	21.18	21.34	21.21	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	21.36	21.35	21.18	23.0	0.0	

Part270 n78 PC2 Main PA Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi/2 BPSK	1	1		3750				
100	Pi/2 BPSK	1	137		21.62				
100	Pi/2 BPSK	1	271		22.34				
100	Pi/2 BPSK	135	0		21.59				
100	Pi/2 BPSK	135	69		21.80				
100	Pi/2 BPSK	135	138		22.31				
100	Pi/2 BPSK	270	0		21.84				
100	Pi/2 BPSK	270	0		21.79				
100	QPSK	1	1		21.52				
100	QPSK	1	137		22.54				
100	QPSK	1	271		21.49				
100	QPSK	135	0		21.25				
100	QPSK	135	69		22.53				
100	QPSK	135	138		21.32				
100	QPSK	270	0		21.26				
100	16QAM	1	1		20.81				
100	64QAM	1	1		19.36				
100	256QAM	1	1		16.53				
Channel									
Frequency (MHz)									
90	QPSK	1	120	22.47	22.41	22.51	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	22.37	22.29	22.50	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	22.45	22.48	22.32	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	22.43	22.37	22.40	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	22.35	22.37	22.42	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	22.31	22.35	22.31	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	22.48	22.42	22.51	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	22.42	22.35	22.39	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	22.49	22.38	22.35	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	22.31	22.51	22.46	24.5	0.0	



n38 Main PA Ant4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				518004	519000	519996	
Frequency (MHz)				2590.02	2595	2599.98	
40	PV2 BPSK	1	1	22.89	22.91	22.83	
40	PV2 BPSK	1	53	22.82	22.85	22.78	24.0
40	PV2 BPSK	1	104	22.42	22.47	22.44	
40	PV2 BPSK	50	0	22.69	22.73	22.70	23.5
40	PV2 BPSK	50	28	22.80	22.88	22.80	24.0
40	PV2 BPSK	50	56	22.37	22.46	22.36	23.5
40	PV2 BPSK	100	0	22.61	22.67	22.63	
40	QPSK	1	1	22.85	22.98	22.81	
40	QPSK	1	53	22.79	22.82	22.75	24.0
40	QPSK	1	104	22.39	22.46	22.37	
40	QPSK	50	0	22.19	22.24	22.20	23.0
40	QPSK	50	28	22.72	22.81	22.73	24.0
40	QPSK	50	56	21.90	21.95	21.91	23.0
40	QPSK	100	0	22.08	22.13	22.07	23.0
40	16QAM	1	1	21.54	21.63	21.59	23.0
40	64QAM	1	1	20.15	20.19	20.15	21.5
40	256QAM	1	1	18.70	18.76	18.68	19.5
Channel				517002	519000	520998	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	22.76	22.90	22.74	24.0
Channel				516504	519000	521496	
Frequency (MHz)				2582.52	2595	2607.48	
25	QPSK	1	1	22.75	22.90	22.71	24.0
Channel				516000	519000	522000	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	1	22.76	22.93	22.73	24.0
Channel				515502	519000	522498	
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	22.76	22.91	22.77	24.0
Channel				515004	519000	522996	
Frequency (MHz)				2575.02	2595	2614.98	
10	QPSK	1	1	22.80	22.93	22.77	24.0

n41 Main PA Ant4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PV2 BPSK	1	1	22.89	22.92	22.86	
100	PV2 BPSK	1	137	22.79	22.89	22.85	24.0
100	PV2 BPSK	1	271	22.14	22.21	22.12	
100	PV2 BPSK	135	0	22.34	22.43	22.36	23.5
100	PV2 BPSK	135	69	22.84	22.88	22.85	24.0
100	PV2 BPSK	135	138	22.62	22.69	22.63	23.5
100	PV2 BPSK	270	0	22.81	22.86	22.83	
100	QPSK	1	1	22.95	23.08	22.81	
100	QPSK	1	137	22.93	22.99	22.95	24.0
100	QPSK	1	271	22.08	22.14	22.12	
100	QPSK	135	0	22.81	22.89	22.87	23.0
100	QPSK	135	69	22.92	23.01	22.97	24.0
100	QPSK	135	138	22.12	22.18	22.09	23.0
100	QPSK	270	0	22.45	22.55	22.48	
100	16QAM	1	1	22.00	22.04	21.98	23.0
100	64QAM	1	1	20.51	20.56	20.46	21.5
100	256QAM	1	1	19.09	19.17	19.09	19.5
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	22.93	23.02	22.77	24.0
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	22.93	23.03	22.73	24.0
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	22.91	23.05	22.76	24.0
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	QPSK	1	1	22.85	23.01	22.78	24.0
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	22.89	23.05	22.77	24.0
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	22.87	23.04	22.76	24.0
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	QPSK	1	1	22.89	23.04	22.74	24.0
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	22.88	23.01	22.74	24.0
Channel				500700	518598	536996	
Frequency (MHz)				2503.5	2592.99	2682.48	
15	QPSK	1	1	22.86	23.03	22.75	24.0
Channel				500202	518598	537000	
Frequency (MHz)				2501.01	2592.99	2685	
10	QPSK	1	1	22.89	23.03	22.73	24.0



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				65000	65000	66200		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.57	22.02	21.90		
100	PI/2 BPSK	1	137	22.46	22.77	22.69	24.0	0.0
100	PI/2 BPSK	1	271	22.07	22.32	22.10		
100	PI/2 BPSK	135	0	22.37	22.71	22.60	23.5	0.5
100	PI/2 BPSK	135	69	22.66	22.92	22.69	24.0	0.0
100	PI/2 BPSK	135	138	22.66	22.87	22.74	23.5	0.5
100	PI/2 BPSK	270	0	22.39	22.79	22.72		
100	QPSK	1	1	21.87	22.20	22.15		
100	QPSK	1	137	22.68	22.93	22.67	24.0	0.0
100	QPSK	1	271	22.01	22.22	22.08		
100	QPSK	135	0	22.27	22.64	22.37	23.0	1.0
100	QPSK	135	69	22.62	22.89	22.68	24.0	0.0
100	QPSK	135	138	22.32	22.75	22.61	23.0	1.0
100	QPSK	270	0	22.33	22.68	22.46		
100	16QAM	1	1	21.52	21.78	21.62	23.0	1.0
100	64QAM	1	1	21.62	21.87	21.64	21.5	2.5
100	256QAM	1	1	20.70	20.96	20.78	21.5	2.5
Channel				649668	650000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	22.61	22.77	22.57	24.0	0.0
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	22.44	22.70	22.55	24.0	0.0
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	22.60	22.70	22.44	24.0	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	22.65	22.71	22.45	24.0	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	22.52	22.73	22.45	24.0	0.0
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	22.42	22.75	22.48	24.0	0.0
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	22.42	22.80	22.61	24.0	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	22.54	22.80	22.44	24.0	0.0
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	22.59	22.72	22.57	24.0	0.0
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	22.56	22.75	22.60	24.0	0.0

Part270 n77 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				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	23.63	23.79	23.67		
100	PI/2 BPSK	1	137	24.51	24.65	24.48	26.5	0.0
100	PI/2 BPSK	1	271	23.88	24.03	23.87		
100	PI/2 BPSK	135	0	23.84	24.06	23.97	26.0	0.5
100	PI/2 BPSK	135	69	24.55	24.65	24.53	26.5	0.0
100	PI/2 BPSK	135	138	23.96	24.10	24.02	26.0	0.5
100	PI/2 BPSK	270	0	23.93	24.13	23.96		
100	QPSK	1	1	23.62	23.84	23.72		
100	QPSK	1	137	24.68	24.90	24.67	26.5	0.0
100	QPSK	1	271	23.96	23.99	23.91		
100	QPSK	135	0	23.31	23.54	23.51	25.5	1.0
100	QPSK	135	69	24.52	24.73	24.69	26.5	0.0
100	QPSK	135	138	23.44	23.63	23.39	25.5	1.0
100	QPSK	270	0	23.47	23.55	23.29		
100	16QAM	1	1	22.83	23.09	22.94	25.5	1.0
100	64QAM	1	1	21.32	21.51	21.26	22.5	4.0
100	256QAM	1	1	18.48	18.60	18.38	20.5	6.0
Channel				649668	650000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	24.52	24.55	24.58	26.5	0.0
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	24.54	24.72	24.54	26.5	0.0
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	24.51	24.67	24.52	26.5	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	24.58	24.75	24.59	26.5	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	24.65	24.81	24.54	26.5	0.0
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	24.59	24.74	24.58	26.5	0.0
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	24.58	24.71	24.57	26.5	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	24.59	24.76	24.51	26.5	0.0
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	24.51	24.75	24.56	26.5	0.0
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	24.53	24.56	24.54	26.5	0.0



Part270 n78 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				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	22.72			24.0	0.0	
100	PI/2 BPSK	1	137	23.27					
100	PI/2 BPSK	1	271	22.79					
100	PI/2 BPSK	135	0	23.30					
100	PI/2 BPSK	135	69	23.28					
100	PI/2 BPSK	135	138	23.33					
100	PI/2 BPSK	270	0	23.30					
100	QPSK	1	1	22.76					
100	QPSK	1	137	23.41					
100	QPSK	1	271	22.76					
100	QPSK	135	0	23.31			24.0	0.0	
100	QPSK	135	69	23.33			24.0	0.0	
100	QPSK	135	138	23.26			24.0	0.0	
100	QPSK	270	0	23.27			24.0	0.0	
100	16QAM	1	1	22.49			24.0	0.0	
100	64QAM	1	1	22.48			24.0	0.0	
100	256QAM	1	1	21.62			22.5	1.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	24.0	0.0	
90	QPSK	1	120	23.18	23.23	23.32	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	24.0	0.0	
80	QPSK	1	109	23.22	23.37	23.17	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	24.0	0.0	
70	QPSK	1	95	23.15	23.14	23.36	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	24.0	0.0	
60	QPSK	1	81	23.23	23.26	23.23	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	24.0	0.0	
50	QPSK	1	67	23.33	23.28	23.19	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	24.0	0.0	
40	QPSK	1	53	23.25	23.36	23.23	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	24.0	0.0	
30	QPSK	1	39	23.15	23.15	23.22	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	24.0	0.0	
20	QPSK	1	26	23.19	23.26	23.19	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	24.0	0.0	
15	QPSK	1	19	23.16	23.32	23.29	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	24.0	0.0	
10	QPSK	1	12	23.26	23.23	23.36	24.0	0.0	

Part270 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				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	24.07			26.5	0.0	
100	PI/2 BPSK	1	137	24.79					
100	PI/2 BPSK	1	271	24.15					
100	PI/2 BPSK	135	0	24.20					
100	PI/2 BPSK	135	69	24.85					
100	PI/2 BPSK	135	138	24.22					
100	PI/2 BPSK	270	0	24.24					
100	QPSK	1	1	24.04					
100	QPSK	1	137	24.88					
100	QPSK	1	271	24.05					
100	QPSK	135	0	23.71			25.5	1.0	
100	QPSK	135	69	24.78			26.5	0.0	
100	QPSK	135	138	23.78			26.5	0.0	
100	QPSK	270	0	23.76			25.5	1.0	
100	16QAM	1	1	23.35			25.5	1.0	
100	64QAM	1	1	21.79			24.0	2.5	
100	256QAM	1	1	19.01			22.0	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	26.5	0.0	
90	QPSK	1	120	24.84	24.74	24.85	26.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	26.5	0.0	
80	QPSK	1	109	24.65	24.66	24.67	26.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	26.5	0.0	
70	QPSK	1	95	24.77	24.73	24.83	26.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	26.5	0.0	
60	QPSK	1	81	24.83	24.87	24.84	26.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	26.5	0.0	
50	QPSK	1	67	24.75	24.80	24.71	26.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	26.5	0.0	
40	QPSK	1	53	24.82	24.74	24.78	26.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	26.5	0.0	
30	QPSK	1	39	24.80	24.67	24.77	26.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	26.5	0.0	
20	QPSK	1	26	24.77	24.69	24.70	26.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	26.5	0.0	
15	QPSK	1	19	24.82	24.89	24.73	26.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	26.5	0.0	
10	QPSK	1	12	24.68	24.74	24.69	26.5	0.0	



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	PI/2 BPSK	1	1	19.63	19.96	19.61		
100	PI/2 BPSK	1	137	19.96	20.39	20.25	22.5	0.0
100	PI/2 BPSK	1	271	19.50	19.79	19.82		
100	PI/2 BPSK	135	0	20.03	20.37	20.30	22.5	0.0
100	PI/2 BPSK	135	69	20.07	20.60	20.30	22.5	0.0
100	PI/2 BPSK	135	138	20.03	20.38	20.15	22.5	0.0
100	PI/2 BPSK	270	0	20.27	20.37	20.22		
100	QPSK	1	1	19.76	20.04	19.88		
100	QPSK	1	137	20.33	20.67	20.41	22.5	0.0
100	QPSK	1	271	19.70	20.06	19.95		
100	QPSK	135	0	20.25	20.52	20.38	22.5	0.0
100	QPSK	135	69	20.26	20.62	20.41	22.5	0.0
100	QPSK	135	138	20.17	20.45	20.41	22.5	0.0
100	QPSK	270	0	20.32	20.53	20.44	22.5	0.0
100	16QAM	1	1	19.46	19.73	19.45	22.5	0.0
100	64QAM	1	1	19.38	19.75	19.70	20.0	2.5
100	256QAM	1	1	18.60	18.94	18.85	20.0	2.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	20.29	20.62	20.36	22.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	20.26	20.42	20.33	22.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3943		
70	QPSK	1	95	20.25	20.58	20.33	22.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	20.24	20.40	20.19	22.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	20.21	20.44	20.21	22.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	20.16	20.61	20.32	22.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	20.25	20.47	20.16	22.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	20.22	20.58	20.22	22.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	20.11	20.46	20.15	22.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	20.28	20.56	20.17	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	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.16	21.57	21.32		
100	PI/2 BPSK	1	137	21.83	22.10	21.83	24.5	0.0
100	PI/2 BPSK	1	271	21.29	21.73	21.52		
100	PI/2 BPSK	135	0	21.49	21.78	21.40	24.0	0.5
100	PI/2 BPSK	135	69	22.12	22.13	22.27	24.5	0.0
100	PI/2 BPSK	135	138	21.69	21.93	21.68	24.0	0.5
100	PI/2 BPSK	270	0	21.61	21.84	21.57		
100	QPSK	1	1	21.14	21.48	21.22		
100	QPSK	1	137	22.27	22.55	22.42	24.5	0.0
100	QPSK	1	271	21.44	21.83	21.68		
100	QPSK	135	0	21.15	21.45	21.29	23.5	1.0
100	QPSK	135	69	22.19	22.63	22.27	24.5	0.0
100	QPSK	135	138	21.15	21.56	21.31	23.5	1.0
100	QPSK	270	0	21.33	21.55	21.36	23.5	1.0
100	16QAM	1	1	20.56	20.88	20.71	23.5	1.0
100	64QAM	1	1	18.93	19.37	19.15	22.0	2.5
100	256QAM	1	1	16.94	17.29	16.93	20.0	4.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	22.09	22.47	22.17	24.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	22.06	22.37	22.24	24.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	22.03	22.39	22.18	24.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	22.09	22.46	22.22	24.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	22.06	22.48	22.25	24.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	22.08	22.41	22.15	24.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	22.09	22.37	22.16	24.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	22.07	22.47	22.23	24.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	22.04	22.42	22.20	24.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	22.09	22.40	22.13	24.5	0.0



Part270 n78 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				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	19.89			22.5	0.0
100	PI/2 BPSK	1	137	20.51				
100	PI/2 BPSK	1	271	19.91				
100	PI/2 BPSK	135	0	20.46			22.5	0.0
100	PI/2 BPSK	135	69	20.54			22.5	0.0
100	PI/2 BPSK	135	138	20.58			22.5	0.0
100	PI/2 BPSK	270	0	20.52			22.5	0.0
100	QPSK	1	1	19.92			22.5	0.0
100	QPSK	1	137	20.66				
100	QPSK	1	271	20.01				
100	QPSK	135	0	20.48			22.5	0.0
100	QPSK	135	69	20.64			22.5	0.0
100	QPSK	135	138	20.56			22.5	0.0
100	QPSK	270	0	20.56			22.5	0.0
100	16QAM	1	1	19.79			22.5	0.0
100	64QAM	1	1	19.80			22.5	0.0
100	256QAM	1	1	18.95			20.0	2.5
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	120	20.54	20.54	20.63	22.5	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	109	20.46	20.56	20.58	22.5	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	95	20.61	20.51	20.40	22.5	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	81	20.62	20.54	20.49	22.5	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	67	20.58	20.41	20.57	22.5	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	53	20.50	20.62	20.59	22.5	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	39	20.48	20.63	20.62	22.5	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	26	20.61	20.54	20.56	22.5	0.0
Channel				647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	19	20.58	20.57	20.54	22.5	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	12	20.58	20.52	20.55	22.5	0.0

Part270 n78 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				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	21.90			24.5	0.0
100	PI/2 BPSK	1	137	22.67				
100	PI/2 BPSK	1	271	21.96				
100	PI/2 BPSK	135	0	22.04			24.0	0.5
100	PI/2 BPSK	135	69	22.50			24.5	0.0
100	PI/2 BPSK	135	138	22.05			24.0	0.5
100	PI/2 BPSK	270	0	22.01			24.0	0.5
100	QPSK	1	1	21.60			24.5	0.0
100	QPSK	1	137	22.75				
100	QPSK	1	271	21.95				
100	QPSK	135	0	21.58			23.5	1.0
100	QPSK	135	69	22.88			24.5	0.0
100	QPSK	135	138	21.58			23.5	1.0
100	QPSK	270	0	21.53			23.5	1.0
100	16QAM	1	1	21.26			23.5	1.0
100	64QAM	1	1	19.86			22.0	2.5
100	256QAM	1	1	17.60			20.0	4.5
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	120	22.71	22.59	22.49	24.5	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	109	22.51	22.57	22.49	24.5	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	95	22.61	22.69	22.49	24.5	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	81	22.88	22.82	22.82	24.5	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	67	22.52	22.57	22.49	24.5	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	53	22.58	22.57	22.55	24.5	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	39	22.55	22.63	22.59	24.5	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	26	22.71	22.68	22.62	24.5	0.0
Channel				647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	19	22.49	22.86	22.88	24.5	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	12	22.57	22.80	22.55	24.5	0.0



Reduced Power Mode for Main PA ECI2

n5 Ant0 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				167300	167300	167300		
Frequency (MHz)				836.5	836.5	836.5		
25	PI/2 BPSK	1	1	22.86				
25	PI/2 BPSK	1	64	22.83			24.0	0.0
25	PI/2 BPSK	1	131	22.77				
25	PI/2 BPSK	64	0	22.38			23.5	0.5
25	PI/2 BPSK	64	33	22.81			24.0	0.0
25	PI/2 BPSK	64	65	22.37				
25	PI/2 BPSK	128	0	22.37			23.5	0.5
25	QPSK	1	1	22.92				
25	QPSK	1	64	22.84			24.0	0.0
25	QPSK	1	131	22.75				
25	QPSK	64	0	21.89			23.0	1.0
25	QPSK	64	33	22.87			24.0	0.0
25	QPSK	64	65	21.83			23.0	1.0
25	QPSK	128	0	21.84				
25	16QAM	1	1	21.74			23.0	1.0
25	64QAM	1	1	20.04			21.5	2.5
25	256QAM	1	1	18.71			19.5	4.5
Channel				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				834	836.5	839		
20	QPSK	1	1	22.64	22.74	22.52	24.0	0.0
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.69	22.84	22.62	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.72	22.77	22.59	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.64	22.68	22.61	24.0	0.0

n26 Ant0 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164800	166300	167800		
Frequency (MHz)				824	831.5	839		
20	PI/2 BPSK	1	1	22.70	22.89	22.76		
20	PI/2 BPSK	1	53	22.69	22.86	22.71	24.0	0.0
20	PI/2 BPSK	1	104	22.57	22.77	22.68		
20	PI/2 BPSK	50	0	22.38	22.56	22.48	23.5	0.5
20	PI/2 BPSK	50	28	22.68	22.87	22.75	24.0	0.0
20	PI/2 BPSK	50	56	22.23	22.45	22.31		
20	PI/2 BPSK	100	0	22.32	22.51	22.37	23.5	0.5
20	QPSK	1	1	22.76	22.94	22.81		
20	QPSK	1	53	22.71	22.89	22.79	24.0	0.0
20	QPSK	1	104	22.53	22.74	22.62		
20	QPSK	50	0	21.79	21.98	21.83	23.0	1.0
20	QPSK	50	28	22.70	22.89	22.75	24.0	0.0
20	QPSK	50	56	21.67	21.91	21.84		
20	QPSK	100	0	21.79	21.96	21.82	23.0	1.0
20	16QAM	1	1	21.31	21.56	21.43	23.0	1.0
20	64QAM	1	1	19.87	20.08	19.99	21.5	2.5
20	256QAM	1	1	18.51	18.71	18.64	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.68	22.80	22.70	24.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	22.69	22.85	22.70	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.71	22.81	22.69	24.0	0.0

n7 Ant1 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	22.85	22.95	22.80	24.0	0.0
50	PI/2 BPSK	1	135	22.73	22.85	22.65		
50	PI/2 BPSK	1	268	22.49	22.55	22.36		
50	PI/2 BPSK	135	0	22.19	22.31	22.14	23.5	0.5
50	PI/2 BPSK	135	68	22.29	22.41	22.19	24.0	0.0
50	PI/2 BPSK	135	135	22.23	22.34	22.16	23.5	0.5
50	PI/2 BPSK	270	0	22.22	22.33	22.14		
50	QPSK	1	1	22.69	22.98	22.81	24.0	0.0
50	QPSK	1	135	22.66	22.79	22.55		
50	QPSK	1	268	22.38	22.47	22.25		
50	QPSK	135	0	21.69	21.81	21.61	23.0	1.0
50	QPSK	135	68	22.82	22.93	22.70	24.0	0.0
50	QPSK	135	135	21.70	21.82	21.57	23.0	1.0
50	QPSK	270	0	21.66	21.78	21.54		
50	16QAM	1	1	21.10	21.19	21.07	23.0	1.0
50	64QAM	1	1	19.81	19.90	19.72	21.5	2.5
50	256QAM	1	1	18.48	18.59	18.38	19.5	4.5
Channel				504000	507000	510000	Tune-up limit	MPR
Frequency (MHz)				2530	2535	2550	(dBm)	(dB)
40	QPSK	1	1	22.83	22.86	22.69	24.0	0.0
Channel				503000	507000	511000	Tune-up limit	MPR
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)
30	QPSK	1	1	22.83	22.83	22.74	24.0	0.0
Channel				502500	507000	511500	Tune-up limit	MPR
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)
25	QPSK	1	1	22.83	22.88	22.68	24.0	0.0
Channel				502000	507000	512000	Tune-up limit	MPR
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)
20	QPSK	1	1	22.76	22.84	22.69	24.0	0.0
Channel				501500	507000	512500	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	QPSK	1	1	22.80	22.90	22.68	24.0	0.0
Channel				501000	507000	513000	Tune-up limit	MPR
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	QPSK	1	1	22.79	22.87	22.74	24.0	0.0
Channel				500500	507000	513500	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
5	QPSK	1	1	22.77	22.89	22.72	24.0	0.0



Part270 n77 Main PA Ant1 ECI2									
BW [MHz]	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	PI/2 BPSK	1	1	20.71	20.67	20.76	22.5	0.0	
100	PI/2 BPSK	1	137	19.19	19.82	19.77			
100	PI/2 BPSK	1	271	19.76	19.88	19.77			
100	PI/2 BPSK	135	0	20.49	20.46	20.30			
100	PI/2 BPSK	135	69	20.69	20.72	20.50			
100	PI/2 BPSK	135	138	20.39	20.34	20.33			
100	PI/2 BPSK	270	0	20.35	20.26	20.20			
100	QPSK	1	1	19.46	20.01	19.85			
100	QPSK	1	137	20.83	20.65	20.81			
100	QPSK	1	271	19.90	19.97	19.93			
100	QPSK	135	0	20.53	20.59	20.55	22.5	0.0	
100	QPSK	135	69	20.75	20.78	20.70	22.5	0.0	
100	QPSK	135	138	20.54	20.59	20.57	22.5	0.0	
100	QPSK	270	0	20.49	20.53	20.47	22.5	0.0	
100	16QAM	1	1	20.55	20.56	20.68	22.5	0.0	
100	64QAM	1	1	20.46	20.57	20.72	22.5	0.0	
100	256QAM	1	1	20.45	20.47	20.63	22.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	120	649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	95	648968	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	647968	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	39	647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	646668	656000	665334	Tune-up limit (dBm)	MPR (dB)	

Part270 n77 PC2 Main PA Ant1 ECI2									
BW [MHz]	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	PI/2 BPSK	1	1	20.10	20.57	20.11	23.5	0.0	
100	PI/2 BPSK	1	137	21.06	21.55	21.12			
100	PI/2 BPSK	1	271	19.72	20.15	19.76			
100	PI/2 BPSK	135	0	20.52	20.97	20.54			
100	PI/2 BPSK	135	69	20.90	21.48	21.20			
100	PI/2 BPSK	135	138	20.53	21.08	20.60			
100	PI/2 BPSK	270	0	20.56	20.95	20.59			
100	QPSK	1	1	20.04	20.58	20.22			
100	QPSK	1	137	21.35	21.75	21.39			
100	QPSK	1	271	19.21	19.78	19.32			
100	QPSK	135	0	19.81	20.41	19.96	22.5	1.0	
100	QPSK	135	69	21.00	21.52	21.20	23.5	0.0	
100	QPSK	135	138	20.05	20.51	20.19	22.5	1.0	
100	QPSK	270	0	19.91	20.59	19.96	22.5	0.0	
100	16QAM	1	1	19.79	19.76	19.41	21.5	2.0	
100	64QAM	1	1	19.79	18.29	17.99	20.0	3.5	
100	256QAM	1	1	15.92	16.26	16.01	18.0	5.5	
Channel									
Frequency (MHz)									
90	QPSK	1	120	649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	95	648968	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	647968	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	39	647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	646668	656000	665334	Tune-up limit (dBm)	MPR (dB)	



Part270 n78 Main PA Ant1 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	20.45			22.5	0.0
100	PI/2 BPSK	1	137	21.08				
100	PI/2 BPSK	1	271	20.68				
100	PI/2 BPSK	135	0	20.96				
100	PI/2 BPSK	135	69	21.03				
100	PI/2 BPSK	135	138	21.26				
100	PI/2 BPSK	270	0	21.10				
100	QPSK	1	1	20.33				
100	QPSK	1	137	21.50				
100	QPSK	1	271	20.77				
100	QPSK	135	0	20.97				
100	QPSK	135	69	21.17				
100	QPSK	135	138	21.10				
100	QPSK	270	0	20.91				
100	16QAM	1	1	20.07			21.0	1.5
100	64QAM	1	1	20.14			21.0	1.5
100	256QAM	1	1	19.25			20.5	2.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	120	21.23	21.31	21.27	22.5	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	109	21.05	21.10	21.22	22.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	95	21.20	21.25	21.19	22.5	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	81	21.19	21.16	21.17	22.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	67	21.22	21.18	21.14	22.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	53	21.09	21.15	21.06	22.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	39	21.03	21.15	21.13	22.5	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	26	21.09	21.28	21.15	22.5	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	19	21.03	21.28	21.18	22.5	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	12	21.04	21.23	21.01	22.5	0.0

Part270 n78 PC2 Main PA Ant1 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	21.36			23.5	0.0
100	PI/2 BPSK	1	137	22.07				
100	PI/2 BPSK	1	271	21.63				
100	PI/2 BPSK	135	0	21.42				
100	PI/2 BPSK	135	69	21.90				
100	PI/2 BPSK	135	138	21.60				
100	PI/2 BPSK	270	0	21.46				
100	QPSK	1	1	21.12				
100	QPSK	1	137	22.15				
100	QPSK	1	271	21.50				
100	QPSK	135	0	20.91				
100	QPSK	135	69	22.13				
100	QPSK	135	138	21.07				
100	QPSK	270	0	20.95				
100	16QAM	1	1	20.64			22.0	1.5
100	64QAM	1	1	20.04			19.00	2.0
100	256QAM	1	1	17.06			18.5	3.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	120	21.94	22.05	22.02	23.5	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	109	21.68	21.97	21.79	23.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	95	21.88	21.95	21.93	23.5	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	81	21.84	21.81	21.79	23.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	67	21.67	21.80	21.92	23.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	53	21.85	21.93	21.80	23.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	39	21.71	21.84	21.84	23.5	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	26	21.84	21.91	21.99	23.5	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	19	21.75	22.00	21.75	23.5	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	12	21.69	21.80	21.85	23.5	0.0



Part270 n77 Main PA Ant2 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.78	20.86	20.82		
100	PI/2 BPSK	1	137	21.37	21.44	21.34	23.0	0.0
100	PI/2 BPSK	1	271	20.46	20.51	20.45		
100	PI/2 BPSK	135	0	21.36	21.45	21.40	22.5	0.5
100	PI/2 BPSK	135	69	21.56	21.59	21.54	23.0	0.0
100	PI/2 BPSK	135	138	21.20	21.26	21.21		
100	PI/2 BPSK	270	0	21.33	21.35	21.29	22.5	0.5
100	QPSK	1	1	20.85	20.97	20.55		
100	QPSK	1	137	21.34	21.62	21.37	23.0	0.0
100	QPSK	1	271	20.45	20.50	20.45		
100	QPSK	135	0	21.37	21.42	21.39	22.5	0.5
100	QPSK	135	69	21.44	21.53	21.44	23.0	0.0
100	QPSK	135	138	21.18	21.22	21.15		
100	QPSK	270	0	21.22	21.28	21.23	22.5	0.5
100	16QAM	1	1	20.93	20.71	20.63	23.0	0.0
100	64QAM	1	1	20.70	20.72	20.63	23.0	0.0
100	256QAM	1	1	19.80	19.86	19.76	22.0	1.0
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	23.0	0.0
90	QPSK	1	120	21.08	21.51	21.10		
Channel				648334	656000	662688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	23.0	0.0
80	QPSK	1	109	21.13	21.30	21.30		
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	23.0	0.0
70	QPSK	1	95	21.28	21.35	21.17		
Channel				648888	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	23.0	0.0
60	QPSK	1	81	21.10	21.57	21.27		
Channel				648334	656000	663688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	23.0	0.0
50	QPSK	1	67	21.10	21.50	21.12		
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	23.0	0.0
40	QPSK	1	53	21.27	21.41	21.13		
Channel				647688	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	23.0	0.0
30	QPSK	1	39	21.23	21.52	21.22		
Channel				647334	656000	664688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	23.0	0.0
20	QPSK	1	26	21.25	21.54	21.28		
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	23.0	0.0
15	QPSK	1	19	21.13	21.49	21.10		
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	23.0	0.0
10	QPSK	1	12	21.18	21.45	21.24		

Part270 n77 PC2 Main PA Ant2 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.09	22.14	22.09	24.5	0.0
100	PI/2 BPSK	1	137	22.59	22.62	22.53		
100	PI/2 BPSK	1	271	20.73	20.77	20.68	23.5	1.0
100	PI/2 BPSK	135	0	22.33	22.36	22.29	23.5	1.0
100	PI/2 BPSK	135	69	22.67	22.72	22.67	24.5	0.0
100	PI/2 BPSK	135	138	22.08	22.14	22.08		
100	PI/2 BPSK	270	0	22.16	22.18	22.11	23.5	1.0
100	QPSK	1	1	21.96	22.04	21.43		
100	QPSK	1	137	22.54	22.73	22.57	24.5	0.0
100	QPSK	1	271	21.98	20.78	22.00	22.5	2.0
100	QPSK	135	0	21.30	21.73	21.32	23.5	1.0
100	QPSK	135	69	22.46	22.65	22.45	24.5	0.0
100	QPSK	135	138	21.33	21.56	21.35		
100	QPSK	270	0	21.29	21.53	21.28	23.5	1.0
100	16QAM	1	1	20.69	21.33	20.74	23.5	1.0
100	64QAM	1	1	19.45	19.85	19.39	22.0	2.5
100	256QAM	1	1	18.15	17.05	18.13	19.0	5.5
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	24.5	0.0
90	QPSK	1	120	22.87	22.65	22.50		
Channel				649334	656000	662688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	24.5	0.0
80	QPSK	1	109	22.50	22.66	22.59		
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	24.5	0.0
70	QPSK	1	95	22.80	22.68	22.50		
Channel				648688	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	24.5	0.0
60	QPSK	1	81	22.50	22.63	22.53		
Channel				648334	656000	663688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	24.5	0.0
50	QPSK	1	67	22.82	22.69	22.53		
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	24.5	0.0
40	QPSK	1	53	22.88	22.64	22.59		
Channel				647688	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	24.5	0.0
30	QPSK	1	39	22.80	22.65	22.50		
Channel				647334	656000	664688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	24.5	0.0
20	QPSK	1	26	22.88	22.64	22.54		
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	24.5	0.0
15	QPSK	1	19	22.82	22.66	22.82		
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	24.5	0.0
10	QPSK	1	12	22.50	22.85	22.59		



Part270 n78 Main PA Ant2 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	20.54			23.0	0.0
100	PI/2 BPSK	1	137	21.21				
100	PI/2 BPSK	1	271	20.57				
100	PI/2 BPSK	135	0	21.11				
100	PI/2 BPSK	135	69	21.35				
100	PI/2 BPSK	135	138	21.18				
100	PI/2 BPSK	270	0	21.14				
100	QPSK	1	1	20.59				
100	QPSK	1	137	21.40				
100	QPSK	1	271	20.58				
100	QPSK	135	0	21.17				
100	QPSK	135	69	21.35				
100	QPSK	135	138	21.18				
100	QPSK	270	0	21.17				
100	16QAM	1	1	20.37				
100	64QAM	1	1	20.41			22.0	1.0
100	256QAM	1	1	19.48			21.0	2.0
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	120	21.27	21.15	21.35	23.0	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	109	21.35	21.34	21.19	23.0	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	95	21.21	21.15	21.29	23.0	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	81	21.16	21.23	21.13	23.0	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	67	21.31	21.31	21.23	23.0	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	53	21.35	21.20	21.20	23.0	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	39	21.29	21.26	21.22	23.0	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	26	21.17	21.16	21.15	23.0	0.0
Channel				647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	19	21.18	21.34	21.21	23.0	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	12	21.36	21.35	21.18	23.0	0.0

Part270 n78 PC2 Main PA Ant2 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	21.62			24.5	0.0
100	PI/2 BPSK	1	137	22.34				
100	PI/2 BPSK	1	271	21.59				
100	PI/2 BPSK	135	0	21.80				
100	PI/2 BPSK	135	69	22.31				
100	PI/2 BPSK	135	138	21.84				
100	PI/2 BPSK	270	0	21.79				
100	QPSK	1	1	21.52				
100	QPSK	1	137	22.54				
100	QPSK	1	271	21.49				
100	QPSK	135	0	21.25				
100	QPSK	135	69	22.53				
100	QPSK	135	138	21.32				
100	QPSK	270	0	21.26				
100	16QAM	1	1	20.81				
100	64QAM	1	1	19.36			21.5	3.0
100	256QAM	1	1	16.53			18.0	6.0
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	120	22.47	22.41	22.51	24.5	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	109	22.37	22.29	22.50	24.5	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	95	22.45	22.46	22.32	24.5	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	81	22.43	22.37	22.40	24.5	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	67	22.35	22.37	22.42	24.5	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	53	22.31	22.35	22.31	24.5	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	39	22.48	22.42	22.51	24.5	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	26	22.42	22.35	22.36	24.5	0.0
Channel				647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	19	22.49	22.38	22.35	24.5	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	12	22.31	22.51	22.46	24.5	0.0



n38 Main PA Ant4 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	14.70	14.84	14.71		
40	PI/2 BPSK	1	53	14.40	14.74	14.52	16.0	0.0
40	PI/2 BPSK	1	104	14.06	14.13	14.06		
40	PI/2 BPSK	50	0	14.38	14.38	14.43	16.0	0.0
40	PI/2 BPSK	50	28	14.58	14.75	14.66	16.0	0.0
40	PI/2 BPSK	50	56	14.07	14.04	14.08		
40	PI/2 BPSK	100	0	14.29	14.60	14.45	16.0	0.0
40	QPSK	1	1	14.78	14.95	14.87		
40	QPSK	1	53	14.74	14.87	14.84	16.0	0.0
40	QPSK	1	104	14.09	14.04	14.07		
40	QPSK	50	0	14.80	14.56	14.59	16.0	0.0
40	QPSK	50	28	14.61	14.80	14.67	16.0	0.0
40	QPSK	50	56	14.09	14.05	14.08		
40	QPSK	100	0	14.31	14.68	14.56	16.0	0.0
40	16QAM	1	1	14.33	14.66	14.53	16.0	0.0
40	64QAM	1	1	14.40	14.74	14.66	16.0	0.0
40	256QAM	1	1	14.60	14.61	14.65	16.0	0.0
Channel				517092	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	14.62	14.76	14.73	16.0	0.0
Channel				516594	519000	521496		
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	14.57	14.84	14.82	16.0	0.0
Channel				516090	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	14.50	14.86	14.82	16.0	0.0
Channel				515592	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	14.57	14.82	14.81	16.0	0.0
Channel				515094	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	14.50	14.77	14.77	16.0	0.0

n41 Main PA Ant4 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	14.83	14.92	14.80		
100	PI/2 BPSK	1	137	14.66	14.81	14.79	16.0	0.0
100	PI/2 BPSK	1	271	14.19	14.10	14.01		
100	PI/2 BPSK	135	0	14.61	14.62	14.64	16.0	0.0
100	PI/2 BPSK	135	69	14.67	14.79	14.82	16.0	0.0
100	PI/2 BPSK	135	138	14.15	14.01	14.19		
100	PI/2 BPSK	270	0	14.39	14.78	14.57	16.0	0.0
100	QPSK	1	1	14.88	15.05	14.92		
100	QPSK	1	137	14.85	14.90	14.90	16.0	0.0
100	QPSK	1	271	14.07	14.19	14.11		
100	QPSK	135	0	14.74	14.81	14.81	16.0	0.0
100	QPSK	135	69	14.71	14.97	14.86	16.0	0.0
100	QPSK	135	138	14.16	14.10	14.02		
100	QPSK	270	0	14.54	14.84	14.73	16.0	0.0
100	16QAM	1	1	14.52	14.81	14.77	16.0	0.0
100	64QAM	1	1	14.59	14.80	14.72	16.0	0.0
100	256QAM	1	1	14.66	14.82	14.71	16.0	0.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	14.42	14.59	14.68	16.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	14.27	14.82	14.61	16.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	14.35	14.77	14.61	16.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	14.28	14.60	14.57	16.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	14.31	14.69	14.53	16.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	14.32	14.79	14.49	16.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	14.48	14.60	14.56	16.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	14.50	14.59	14.65	16.0	0.0
Channel				500700	518598	536496		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	14.27	14.64	14.48	16.0	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	14.46	14.77	14.57	16.0	0.0



Part270 n77 Main PA Ant5 EC12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	14.64	14.74	14.77	16.5	0.0	
100	PI/2 BPSK	1	137	15.75	15.97	15.91			
100	PI/2 BPSK	1	271	14.90	15.12	15.09			
100	PI/2 BPSK	135	0	14.23	14.51	14.51			
100	PI/2 BPSK	135	69	15.67	15.76	15.56			
100	PI/2 BPSK	135	138	14.39	14.66	14.60			
100	PI/2 BPSK	270	0	14.57	14.57	14.41			
100	QPSK	1	1	14.77	14.93	14.95			
100	QPSK	1	137	15.95	16.07	15.97			
100	QPSK	1	271	15.06	15.16	15.18			
100	QPSK	135	0	14.45	14.64	14.64			
100	QPSK	135	69	15.76	15.87	15.80			
100	QPSK	135	138	14.54	14.91	14.65			
100	QPSK	270	0	14.79	14.81	14.51			
100	16QAM	1	1	15.61	15.60	15.62	16.5	0.0	
100	64QAM	1	1	15.67	15.70	15.65	16.5	0.0	
100	256QAM	1	1	15.70	15.80	15.57	16.5	0.0	
Channel				649668	650000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	16.5	0.0	
90	QPSK	1	120	15.83	15.80	15.84	16.5	0.0	
Channel				649334	650000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	16.5	0.0	
80	QPSK	1	109	15.85	15.83	15.92	16.5	0.0	
Channel				649000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	16.5	0.0	
70	QPSK	1	95	15.73	15.82	15.70	16.5	0.0	
Channel				648668	650000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	16.5	0.0	
60	QPSK	1	81	15.92	15.83	15.70	16.5	0.0	
Channel				648334	650000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	16.5	0.0	
50	QPSK	1	67	15.79	15.80	15.92	16.5	0.0	
Channel				648000	650000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	16.5	0.0	
40	QPSK	1	53	15.83	16.04	15.74	16.5	0.0	
Channel				647668	650000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	16.5	0.0	
30	QPSK	1	39	15.76	15.96	15.73	16.5	0.0	
Channel				647334	650000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	16.5	0.0	
20	QPSK	1	26	15.92	15.91	15.81	16.5	0.0	
Channel				647168	650000	664834	Tune-up limit	MPR	
Frequency (MHz)				3707.62	3840	3972.51	16.5	0.0	
15	QPSK	1	19	15.69	16.01	15.70	16.5	0.0	
Channel				647000	650000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	16.5	0.0	
10	QPSK	1	12	15.79	15.91	15.72	16.5	0.0	

Part270 n78 Main PA Ant5 EC12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	14.55	14.55	14.55	16.5	0.0	
100	PI/2 BPSK	1	137	15.88	15.88	15.88			
100	PI/2 BPSK	1	271	15.08	15.08	15.08			
100	PI/2 BPSK	135	0	14.38	14.38	14.38			
100	PI/2 BPSK	135	69	15.63	15.63	15.63			
100	PI/2 BPSK	135	138	14.45	14.45	14.45			
100	PI/2 BPSK	270	0	14.43	14.43	14.43			
100	QPSK	1	1	14.79	14.79	14.79			
100	QPSK	1	137	15.94	15.94	15.94			
100	QPSK	1	271	15.10	15.10	15.10			
100	QPSK	135	0	14.38	14.38	14.38			
100	QPSK	135	69	15.63	15.63	15.63			
100	QPSK	135	138	14.69	14.69	14.69			
100	QPSK	270	0	14.72	14.72	14.72			
100	16QAM	1	1	15.38	15.38	15.38	16.5	0.0	
100	64QAM	1	1	15.59	15.59	15.59	16.5	0.0	
100	256QAM	1	1	15.64	15.64	15.64	16.5	0.0	
Channel				649668	650000	660334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	16.5	0.0	
90	QPSK	1	120	15.87	15.83	15.86	16.5	0.0	
Channel				649334	650000	660668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	16.5	0.0	
80	QPSK	1	109	15.84	15.89	15.72	16.5	0.0	
Channel				649000	650000	661000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	16.5	0.0	
70	QPSK	1	95	15.81	15.72	15.76	16.5	0.0	
Channel				648668	650000	661334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	16.5	0.0	
60	QPSK	1	81	15.89	15.85	15.81	16.5	0.0	
Channel				648334	650000	661668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	16.5	0.0	
50	QPSK	1	67	15.73	15.67	15.59	16.5	0.0	
Channel				648000	650000	662000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	16.5	0.0	
40	QPSK	1	53	15.81	15.66	15.62	16.5	0.0	
Channel				647668	650000	662334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	16.5	0.0	
30	QPSK	1	39	15.73	15.61	15.75	16.5	0.0	
Channel				647334	650000	662668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	16.5	0.0	
20	QPSK	1	26	15.83	15.63	15.76	16.5	0.0	
Channel				647168	650000	662834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	16.5	0.0	
15	QPSK	1	19	15.65	15.59	15.57	16.5	0.0	
Channel				647000	650000	663000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	16.5	0.0	
10	QPSK	1	12	15.83	15.85	15.88	16.5	0.0	



Part270 n77 Main PA Ant7 EC12									
BW [MHz]	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	PI/2 BPSK	1	1	17.34	17.60	17.45	19.0	0.0	
100	PI/2 BPSK	1	137	18.41	18.90	18.48			
100	PI/2 BPSK	1	271	17.52	17.98	17.87			
100	PI/2 BPSK	135	0	17.30	17.51	17.20			
100	PI/2 BPSK	135	69	18.31	18.76	18.28			
100	PI/2 BPSK	135	138	17.29	17.86	17.29			
100	PI/2 BPSK	270	0	17.37	17.72	17.44			
100	QPSK	1	1	17.53	17.80	17.55			
100	QPSK	1	137	18.61	18.93	18.58			
100	QPSK	1	271	17.63	18.12	17.91			
100	QPSK	135	0	17.48	17.65	17.44			
100	QPSK	135	69	18.42	18.88	18.51			
100	QPSK	135	138	17.33	17.92	17.48			
100	QPSK	270	0	17.49	17.77	17.53			
100	16QAM	1	1	18.29	18.71	18.24			
100	64QAM	1	1	18.19	18.82	18.27			
100	256QAM	1	1	18.16	18.63	18.47			
Channel									
Frequency (MHz)									
90	QPSK	1	120	18.25	18.64	18.39	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.34	18.76	18.44	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	18.31	18.77	18.25	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	18.23	18.74	18.34	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	18.33	18.78	18.44	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	18.18	18.77	18.28	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	18.29	18.70	18.39	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	18.24	18.83	18.45	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	18.31	18.79	18.46	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	18.26	18.77	18.29	19.0	0.0	

Part270 n78 Main PA Ant7 EC12									
BW [MHz]	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	PI/2 BPSK	1	1	17.49	17.49	17.49	19.0	0.0	
100	PI/2 BPSK	1	137	18.66	18.66	18.66			
100	PI/2 BPSK	1	271	17.81	17.81	17.81			
100	PI/2 BPSK	135	0	17.21	17.21	17.21			
100	PI/2 BPSK	135	69	18.56	18.56	18.56			
100	PI/2 BPSK	135	138	17.70	17.70	17.70			
100	PI/2 BPSK	270	0	17.60	17.60	17.60			
100	QPSK	1	1	17.65	17.65	17.65			
100	QPSK	1	137	18.76	18.76	18.76			
100	QPSK	1	271	17.82	17.82	17.82			
100	QPSK	135	0	17.47	17.47	17.47			
100	QPSK	135	69	18.74	18.74	18.74			
100	QPSK	135	138	17.67	17.67	17.67			
100	QPSK	270	0	17.65	17.65	17.65			
100	16QAM	1	1	18.49	18.49	18.49			
100	64QAM	1	1	18.60	18.60	18.60			
100	256QAM	1	1	18.45	18.45	18.45			
Channel									
Frequency (MHz)									
90	QPSK	1	120	18.12	18.53	18.20	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.10	18.52	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	18.01	18.45	18.13	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	18.10	18.46	18.27	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	18.03	18.50	18.18	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	18.15	18.55	18.13	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	18.10	18.45	18.22	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	18.04	18.58	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	18.11	18.59	18.20	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	18.18	18.58	18.14	19.0	0.0	



Reduced Power Mode for Main PA EC13

n5 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				167300					
Frequency (MHz)				836.5					
25	PI/2 BPSK	1	1	22.86			24.0	0.0	
25	PI/2 BPSK	1	64	22.83					
25	PI/2 BPSK	1	131	22.77					
25	PI/2 BPSK	64	0	22.38			23.5	0.5	
25	PI/2 BPSK	64	33	22.81			24.0	0.0	
25	PI/2 BPSK	64	65	22.37			23.5	0.5	
25	PI/2 BPSK	128	0	22.37					
25	QPSK	1	1	22.92			24.0	0.0	
25	QPSK	1	64	22.84					
25	QPSK	1	131	22.75					
25	QPSK	64	0	21.89			23.0	1.0	
25	QPSK	64	33	22.87			24.0	0.0	
25	QPSK	64	65	21.83			23.0	1.0	
25	QPSK	128	0	21.84					
25	16QAM	1	1	21.74			23.0	1.0	
25	64QAM	1	1	20.04			21.5	2.5	
25	256QAM	1	1	18.71			19.5	4.5	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.64	22.74	22.52	24.0	0.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.69	22.84	22.62	24.0	0.0	
Channel				163800	167300	169900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.72	22.77	22.59	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.64	22.86	22.61	24.0	0.0	

n26 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800					
Frequency (MHz)				824					
20	PI/2 BPSK	1	1	22.70	22.89	22.76	24.0	0.0	
20	PI/2 BPSK	1	53	22.69	22.86	22.71			
20	PI/2 BPSK	1	104	22.57	22.77	22.68			
20	PI/2 BPSK	50	0	22.38	22.56	22.48	23.5	0.5	
20	PI/2 BPSK	50	28	22.68	22.87	22.75	24.0	0.0	
20	PI/2 BPSK	50	56	22.23	22.45	22.31	23.5	0.5	
20	PI/2 BPSK	100	0	22.32	22.51	22.37			
20	QPSK	1	1	22.76	22.94	22.81	24.0	0.0	
20	QPSK	1	53	22.71	22.89	22.79			
20	QPSK	1	104	22.53	22.74	22.62			
20	QPSK	50	0	21.79	21.98	21.83	23.0	1.0	
20	QPSK	50	28	22.70	22.89	22.75	24.0	0.0	
20	QPSK	50	56	21.67	21.91	21.84	23.0	1.0	
20	QPSK	100	0	21.79	21.96	21.82			
20	16QAM	1	1	21.31	21.56	21.43	23.0	1.0	
20	64QAM	1	1	19.87	20.08	19.99	21.5	2.5	
20	256QAM	1	1	18.51	18.71	18.64	19.5	4.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.68	22.80	22.70	24.0	0.0	
Channel				163800	166300	168900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.69	22.85	22.70	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.71	22.81	22.89	24.0	0.0	

n7 Ant1 ECI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	18.21	18.38	18.14		
50	PI/2 BPSK	1	135	18.31	18.45	18.17	19.5	0.0
50	PI/2 BPSK	1	268	18.32	18.46	18.19		
50	PI/2 BPSK	135	0	18.19	18.37	18.12	19.5	0.0
50	PI/2 BPSK	135	68	18.22	18.51	18.21	19.5	0.0
50	PI/2 BPSK	135	135	18.20	18.29	18.13		
50	PI/2 BPSK	270	0	18.33	18.35	18.31	19.5	0.0
50	QPSK	1	1	18.27	18.52	18.32		
50	QPSK	1	135	18.42	18.46	18.49	19.5	0.0
50	QPSK	1	268	18.18	18.48	18.18		
50	QPSK	135	0	18.41	18.30	18.39	19.5	0.0
50	QPSK	135	68	18.33	18.42	18.18	19.5	0.0
50	QPSK	135	135	18.40	18.34	18.12	19.5	0.0
50	QPSK	270	0	18.38	18.39	18.34		
50	16QAM	1	1	18.21	18.48	18.27	19.5	0.0
50	64QAM	1	1	18.29	18.27	18.15	19.5	0.0
50	256QAM	1	1	18.40	18.28	18.24	19.5	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	18.21	18.38	18.22	19.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	18.14	18.42	18.17	19.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	18.16	18.34	18.25	19.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	18.22	18.32	18.28	19.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	18.20	18.30	18.14	19.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	18.27	18.38	18.18	19.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	18.13	18.47	18.12	19.5	0.0



Part270 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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.71	20.67	20.76		
100	PI/2 BPSK	1	137	19.19	19.82	19.77	22.5	0.0
100	PI/2 BPSK	1	271	19.76	19.88	19.77		
100	PI/2 BPSK	135	0	20.49	20.46	20.30	22.5	0.0
100	PI/2 BPSK	135	69	20.69	20.72	20.50	22.5	0.0
100	PI/2 BPSK	135	138	20.39	20.34	20.33	22.5	0.0
100	PI/2 BPSK	270	0	20.35	20.26	20.20		
100	QPSK	1	1	19.46	20.01	19.85		
100	QPSK	1	137	20.83	20.85	20.81	22.5	0.0
100	QPSK	1	271	19.90	19.97	19.93		
100	QPSK	135	0	20.53	20.59	20.55	22.5	0.0
100	QPSK	135	69	20.75	20.78	20.70	22.5	0.0
100	QPSK	135	138	20.54	20.59	20.57	22.5	0.0
100	QPSK	270	0	20.49	20.53	20.47		
100	16QAM	1	1	20.58	20.56	20.68	22.5	0.0
100	64QAM	1	1	20.46	20.57	20.72	22.5	0.0
100	256QAM	1	1	20.55	20.47	20.68	22.5	0.0
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	20.47	20.50	20.52	22.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	20.60	20.46	20.73	22.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	20.63	20.51	20.65	22.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	20.49	20.47	20.57	22.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	20.62	20.58	20.66	22.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	20.46	20.60	20.67	22.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	20.57	20.63	20.50	22.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	20.59	20.45	20.66	22.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	20.65	20.56	20.51	22.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	20.60	20.58	20.72	22.5	0.0

Part270 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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.10	20.57	20.11		
100	PI/2 BPSK	1	137	21.06	21.55	21.12	23.5	0.0
100	PI/2 BPSK	1	271	19.72	20.15	19.76		
100	PI/2 BPSK	135	0	20.52	20.97	20.54	22.5	1.0
100	PI/2 BPSK	135	69	20.90	21.48	21.20	23.5	0.0
100	PI/2 BPSK	135	138	20.53	21.08	20.60	22.5	1.0
100	PI/2 BPSK	270	0	20.56	20.95	20.59		
100	QPSK	1	1	20.04	20.58	20.22		
100	QPSK	1	137	21.35	21.75	21.39	23.5	0.0
100	QPSK	1	271	19.21	19.78	19.32		
100	QPSK	135	0	19.81	20.41	19.96	22.5	1.0
100	QPSK	135	69	21.00	21.62	21.20	23.5	0.0
100	QPSK	135	138	20.05	20.51	20.19	22.5	1.0
100	QPSK	270	0	19.91	20.59	19.96		
100	16QAM	1	1	19.17	19.76	19.41	21.5	2.0
100	64QAM	1	1	17.79	18.29	17.99	20.0	3.5
100	256QAM	1	1	15.92	16.26	16.01	18.0	5.5
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	21.10	21.54	21.21	23.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	21.19	21.69	21.22	23.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	21.17	21.66	21.27	23.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	21.08	21.56	21.25	23.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	21.23	21.84	21.21	23.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	21.24	21.62	21.25	23.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	21.22	21.70	21.18	23.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	21.09	21.54	21.26	23.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	21.26	21.83	21.14	23.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	21.10	21.70	21.25	23.5	0.0



Part270 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									
Frequency (MHz)									
100	Pi/2 BPSK	1	1	20.45	21.08	21.08	22.5	0.0	
100	Pi/2 BPSK	1	137	20.68	20.96	21.03	22.0	0.5	
100	Pi/2 BPSK	135	0	21.03	21.26	21.26	22.5	0.0	
100	Pi/2 BPSK	135	69	21.03	21.26	21.26	22.0	0.5	
100	Pi/2 BPSK	135	138	21.03	21.10	21.10	22.5	0.0	
100	Pi/2 BPSK	270	0	20.33	21.50	21.50	22.0	0.5	
100	QPSK	1	1	20.77	20.97	21.17	22.5	0.0	
100	QPSK	1	137	20.77	20.97	21.17	22.0	0.5	
100	QPSK	1	271	20.77	20.97	21.17	22.5	0.0	
100	QPSK	135	0	20.77	20.97	21.17	22.0	0.5	
100	QPSK	135	69	20.77	20.97	21.17	22.5	0.0	
100	QPSK	135	138	20.77	20.97	21.17	22.0	0.5	
100	QPSK	270	0	20.77	20.97	21.17	22.5	0.0	
100	16QAM	1	1	20.07	20.14	20.14	21.0	1.5	
100	64QAM	1	1	20.25	20.25	20.25	21.0	1.5	
100	256QAM	1	1	19.25	19.25	19.25	20.5	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	120	21.26	21.31	21.27	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.06	21.19	21.22	22.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	21.20	21.26	21.19	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.19	21.16	21.17	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.22	21.18	21.14	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.09	21.15	21.06	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	21.03	21.15	21.13	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.08	21.28	21.15	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	21.03	21.28	21.18	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	21.04	21.23	21.01	22.5	0.0	

Part270 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									
Frequency (MHz)									
100	Pi/2 BPSK	1	1	21.36	22.07	22.07	23.5	0.0	
100	Pi/2 BPSK	1	137	21.83	21.42	21.90	22.5	1.0	
100	Pi/2 BPSK	135	0	21.90	21.90	21.90	23.5	0.0	
100	Pi/2 BPSK	135	69	21.90	21.90	21.90	22.5	1.0	
100	Pi/2 BPSK	135	138	21.90	21.46	21.46	23.5	0.0	
100	Pi/2 BPSK	270	0	21.12	22.15	22.15	22.5	1.0	
100	QPSK	1	1	20.91	21.07	21.07	22.5	1.0	
100	QPSK	1	137	20.91	21.07	21.07	22.5	1.0	
100	QPSK	1	271	20.91	21.07	21.07	22.5	1.0	
100	QPSK	135	0	20.91	21.07	21.07	22.0	1.5	
100	QPSK	135	69	20.91	21.07	21.07	22.0	1.5	
100	QPSK	135	138	20.91	21.07	21.07	22.0	1.5	
100	QPSK	270	0	20.91	21.07	21.07	22.0	1.5	
100	16QAM	1	1	20.64	20.64	20.64	20.5	3.0	
100	64QAM	1	1	19.00	19.00	19.00	18.5	5.0	
100	256QAM	1	1	17.06	17.06	17.06	17.06	5.0	
Channel									
Frequency (MHz)									
90	QPSK	1	120	21.84	22.05	22.02	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.68	21.67	21.79	23.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	21.88	21.85	21.83	23.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.84	21.81	21.79	23.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.67	21.80	21.92	23.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.85	21.83	21.80	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	21.71	21.84	21.84	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.84	21.91	21.99	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	21.75	22.00	21.75	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	21.69	21.80	21.85	23.5	0.0	



Part270 n77 Main PA PC2&PC3 Ant2 ECI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	16.11	16.49	16.30	18.0	0.0
100	PI/2 BPSK	1	137	16.21	16.43	16.23		
100	PI/2 BPSK	1	271	16.22	16.38	16.19	18.0	0.0
100	PI/2 BPSK	135	0	16.28	16.48	16.36	18.0	0.0
100	PI/2 BPSK	135	69	16.34	16.36	16.37	18.0	0.0
100	PI/2 BPSK	135	138	16.15	16.46	16.37		
100	PI/2 BPSK	270	0	16.15	16.40	16.15	18.0	0.0
100	QPSK	1	1	16.12	16.15	16.22		
100	QPSK	1	137	16.50	16.37	16.53	18.0	0.0
100	QPSK	1	271	16.07	16.13	16.09	16.0	2.0
100	QPSK	135	0	16.48	16.41	16.46	18.0	0.0
100	QPSK	135	69	16.16	16.53	16.18	18.0	0.0
100	QPSK	135	138	16.27	16.45	16.25		
100	QPSK	270	0	16.30	16.48	16.43	18.0	0.0
100	16QAM	1	1	16.33	16.51	16.34	18.0	0.0
100	64QAM	1	1	16.19	16.33	16.32	18.0	0.0
100	256QAM	1	1	16.16	16.50	16.35	18.0	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	16.48	16.51	16.43	18.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	16.35	16.53	16.40	18.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	16.38	16.41	16.49	18.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	16.45	16.58	16.48	18.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	16.35	16.58	16.39	18.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	16.34	16.54	16.55	18.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	16.46	16.51	16.43	18.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	16.44	16.47	16.40	18.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	16.43	16.41	16.48	18.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	16.42	16.48	16.52	18.0	0.0

Part270 n78 Main PA PC2&PC3 Ant2 ECI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000			
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	16.13				
100	PI/2 BPSK	1	137	16.15			18.0	0.0
100	PI/2 BPSK	1	271	16.20				
100	PI/2 BPSK	135	0	16.25			18.0	0.0
100	PI/2 BPSK	135	69	16.26			18.0	0.0
100	PI/2 BPSK	135	138	16.20				
100	PI/2 BPSK	270	0	16.07			18.0	0.0
100	QPSK	1	1	16.02				
100	QPSK	1	137	16.34			18.0	0.0
100	QPSK	1	271	16.10				
100	QPSK	135	0	16.15			18.0	0.0
100	QPSK	135	69	16.31			18.0	0.0
100	QPSK	135	138	16.08				
100	QPSK	270	0	16.26			18.0	0.0
100	16QAM	1	1	16.13			18.0	0.0
100	64QAM	1	1	16.28			18.0	0.0
100	256QAM	1	1	16.28			18.0	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	120	16.18	16.19	16.10	18.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	16.14	16.11	16.10	18.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	95	16.10	16.09	16.16	18.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	16.27	16.07	16.19	18.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	16.12	16.00	16.32	18.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	16.25	16.05	16.13	18.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	39	16.18	16.15	16.21	18.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	16.05	16.02	16.12	18.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	19	16.16	16.13	16.27	18.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	12	16.21	16.06	16.15	18.0	0.0



n38 Main PA Ant4 ECI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	14.18	14.43	14.21	15.5	0.0
40	PI/2 BPSK	1	53	14.28	14.31	14.20		
40	PI/2 BPSK	1	104	14.24	14.44	14.28		
40	PI/2 BPSK	50	0	14.34	14.49	14.29		
40	PI/2 BPSK	50	28	14.37	14.43	14.28		
40	PI/2 BPSK	50	56	14.34	14.33	14.36		
40	PI/2 BPSK	100	0	14.24	14.48	14.17		
40	QPSK	1	1	14.43	14.52	14.46		
40	QPSK	1	53	14.27	14.33	14.20		
40	QPSK	1	104	14.23	14.34	14.30		
40	QPSK	50	0	14.44	14.43	14.43	15.5	0.0
40	QPSK	50	28	14.41	14.49	14.19	15.5	0.0
40	QPSK	50	56	14.23	14.36	14.29	15.5	0.0
40	QPSK	100	0	14.30	14.42	14.34	15.5	0.0
40	16QAM	1	1	14.27	14.34	14.21	15.5	0.0
40	64QAM	1	1	14.22	14.42	14.18	15.5	0.0
40	256QAM	1	1	14.19	14.47	14.34	15.5	0.0
Channel				517002	519000	520998	Tune-up limit	MPR
Frequency (MHz)				2585.01	2595	2604.99	(dBm)	(dB)
30	QPSK	1	1	14.31	14.48	14.35	15.5	0.0
Channel				516504	519000	521496	Tune-up limit	MPR
Frequency (MHz)				2582.52	2595	2607.48	(dBm)	(dB)
25	QPSK	1	1	14.37	14.49	14.40	15.5	0.0
Channel				516000	519000	522000	Tune-up limit	MPR
Frequency (MHz)				2580	2595	2610	(dBm)	(dB)
20	QPSK	1	1	14.38	14.48	14.39	15.5	0.0
Channel				515502	519000	522498	Tune-up limit	MPR
Frequency (MHz)				2577.51	2595	2612.49	(dBm)	(dB)
15	QPSK	1	1	14.41	14.45	14.43	15.5	0.0
Channel				515004	519000	522996	Tune-up limit	MPR
Frequency (MHz)				2575.02	2595	2614.98	(dBm)	(dB)
10	QPSK	1	1	14.29	14.47	14.36	15.5	0.0

n41 Main PA Ant4 ECI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	14.40	14.56	14.24	15.5	0.0
100	PI/2 BPSK	1	137	14.36	14.51	14.34		
100	PI/2 BPSK	1	271	14.44	14.51	14.20		
100	PI/2 BPSK	135	0	14.32	14.53	14.22		
100	PI/2 BPSK	135	69	14.41	14.57	14.27		
100	PI/2 BPSK	135	138	14.45	14.54	14.24		
100	PI/2 BPSK	270	0	14.34	14.52	14.23		
100	QPSK	1	1	14.42	14.59	14.46		
100	QPSK	1	137	14.34	14.56	14.27		
100	QPSK	1	271	14.40	14.57	14.23		
100	QPSK	135	0	14.30	14.55	14.35	15.5	0.0
100	QPSK	135	69	14.56	14.58	14.48	15.5	0.0
100	QPSK	135	138	14.43	14.55	14.34	15.5	0.0
100	QPSK	270	0	14.41	14.49	14.46	15.5	0.0
100	16QAM	1	1	14.49	14.47	14.17	15.5	0.0
100	64QAM	1	1	14.46	14.50	14.22	15.5	0.0
100	256QAM	1	1	14.38	14.43	14.29	15.5	0.0
Channel				508200	518598	528996	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	14.32	14.50	14.39	15.5	0.0
Channel				507204	518598	529998	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	14.33	14.51	14.34	15.5	0.0
Channel				506202	518598	531000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	14.30	14.48	14.36	15.5	0.0
Channel				505200	518598	531996	Tune-up limit	MPR
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)
60	QPSK	1	1	14.29	14.49	14.42	15.5	0.0
Channel				504204	518598	532998	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	14.34	14.51	14.37	15.5	0.0
Channel				503202	518598	534000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	14.33	14.46	14.38	15.5	0.0
Channel				502200	518598	534996	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	14.39	14.49	14.32	15.5	0.0
Channel				501204	518598	535998	Tune-up limit	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	14.34	14.52	14.38	15.5	0.0
Channel				500700	518598	536996	Tune-up limit	MPR
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	14.29	14.52	14.42	15.5	0.0
Channel				500202	518598	537000	Tune-up limit	MPR
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	14.29	14.57	14.36	15.5	0.0



Part270 n77 Main PA Ant5 PC2&PC3 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	14.86	14.91	14.76	16.5	0.0	
100	PI/2 BPSK	1	137	14.76	14.86	14.85			
100	PI/2 BPSK	1	271	14.89	14.80	14.70			
100	PI/2 BPSK	135	0	14.67	14.97	14.70			
100	PI/2 BPSK	135	69	14.70	14.95	14.78			
100	PI/2 BPSK	135	138	14.76	14.98	14.70			
100	PI/2 BPSK	270	0	14.79	14.97	14.85			
100	QPSK	1	1	14.57	14.59	14.53			
100	QPSK	1	137	14.77	14.99	14.67			
100	QPSK	1	271	14.53	14.61	14.58			
100	QPSK	135	0	14.88	14.92	14.90	16.5	0.0	
100	QPSK	135	69	14.80	14.90	14.83	16.5	0.0	
100	QPSK	135	138	14.84	14.87	14.81	16.5	0.0	
100	QPSK	270	0	14.84	14.88	14.82	16.5	0.0	
100	16QAM	1	1	14.68	14.88	14.67	16.5	0.0	
100	64QAM	1	1	14.77	14.92	14.67	12.5	4.0	
100	256QAM	1	1	14.90	14.85	14.88	10.5	6.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	120	14.77	14.98	14.54	16.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	14.73	14.91	14.62	16.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	14.58	14.94	14.58	16.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	14.58	14.94	14.56	16.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	14.72	14.94	14.56	16.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	14.66	14.89	14.62	16.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	39	14.72	14.94	14.62	16.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	14.71	14.87	14.53	16.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	14.78	14.79	14.52	16.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	14.68	14.91	14.56	16.5	0.0	

Part270 n78 Main PA Ant5 PC2&PC3 ECI3									
BW [MHz]	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					
100	PI/2 BPSK	1	1	14.88			16.5	0.0	
100	PI/2 BPSK	1	137	15.02					
100	PI/2 BPSK	1	271	15.06					
100	PI/2 BPSK	135	0	14.96					
100	PI/2 BPSK	135	69	15.04					
100	PI/2 BPSK	135	138	14.89					
100	PI/2 BPSK	270	0	14.90					
100	QPSK	1	1	14.67					
100	QPSK	1	137	15.09					
100	QPSK	1	271	14.89					
100	QPSK	135	0	15.02			16.5	0.0	
100	QPSK	135	69	15.01			16.5	0.0	
100	QPSK	135	138	14.83			16.5	0.0	
100	QPSK	270	0	14.96			16.5	0.0	
100	16QAM	1	1	14.87			16.5	0.0	
100	64QAM	1	1	15.02			16.5	0.0	
100	256QAM	1	1	14.84			16.5	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	120	14.83	14.63	14.66	16.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	14.88	14.64	14.65	16.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	14.81	14.70	14.63	16.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	14.71	14.84	14.54	16.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	14.82	14.76	14.58	16.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	14.90	14.75	14.56	16.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	14.84	14.83	14.62	16.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	14.76	14.63	14.59	16.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	14.79	14.83	14.65	16.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	14.88	14.80	14.56	16.5	0.0	



Part270 n77 Main PA Ant7 PC2&PC3 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	17.34	17.60	17.45			
100	PI/2 BPSK	1	137	18.41	18.90	18.48	19.0	0.0	
100	PI/2 BPSK	1	271	17.52	17.98	17.87			
100	PI/2 BPSK	135	0	17.30	17.51	17.20	19.0	0.0	
100	PI/2 BPSK	135	69	18.31	18.76	18.28	19.0	0.0	
100	PI/2 BPSK	135	138	17.29	17.86	17.29	19.0	0.0	
100	PI/2 BPSK	270	0	17.37	17.72	17.44			
100	QPSK	1	1	17.53	17.80	17.55			
100	QPSK	1	137	18.61	18.93	18.56	19.0	0.0	
100	QPSK	1	271	17.63	18.12	17.91			
100	QPSK	135	0	17.48	17.65	17.44	19.0	0.0	
100	QPSK	135	69	18.42	18.88	18.51	19.0	0.0	
100	QPSK	135	138	17.33	17.92	17.48	19.0	0.0	
100	QPSK	270	0	17.49	17.77	17.53	19.0	0.0	
100	16QAM	1	1	18.29	18.71	18.24	19.0	0.0	
100	64QAM	1	1	18.19	18.82	18.27	19.0	0.0	
100	256QAM	1	1	18.16	18.63	18.47	19.0	0.0	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	120	18.25	18.64	18.39	19.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	18.34	18.76	18.44	19.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	18.31	18.77	18.25	19.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	18.28	18.74	18.34	19.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	18.33	18.78	18.44	19.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	18.18	18.77	18.28	19.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	39	18.28	18.70	18.39	19.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	18.24	18.63	18.45	19.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	18.31	18.79	18.46	19.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	18.26	18.77	18.29	19.0	0.0	

Part270 n78 Main PA Ant7 PC2&PC3 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	17.49					
100	PI/2 BPSK	1	137	18.66			19.0	0.0	
100	PI/2 BPSK	1	271	17.81					
100	PI/2 BPSK	135	0	17.21			19.0	0.0	
100	PI/2 BPSK	135	69	18.56			19.0	0.0	
100	PI/2 BPSK	135	138	17.70			19.0	0.0	
100	PI/2 BPSK	270	0	17.80					
100	QPSK	1	1	17.65					
100	QPSK	1	137	18.76			19.0	0.0	
100	QPSK	1	271	17.82					
100	QPSK	135	0	17.47			19.0	0.0	
100	QPSK	135	69	17.74			19.0	0.0	
100	QPSK	135	138	17.67			19.0	0.0	
100	QPSK	270	0	17.65			19.0	0.0	
100	16QAM	1	1	18.49			19.0	0.0	
100	64QAM	1	1	18.80			19.0	0.0	
100	256QAM	1	1	18.45			19.0	0.0	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	120	18.12	18.53	18.20	19.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	18.10	18.52	18.14	19.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	18.01	18.45	18.13	19.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	18.10	18.46	18.27	19.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	18.06	18.50	18.18	19.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	18.15	18.55	18.13	19.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	18.10	18.45	18.22	19.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	18.04	18.58	18.14	19.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	18.11	18.59	18.20	19.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	18.18	18.58	18.14	19.0	0.0	



Reduced Power Mode for Main PA EC14

n5 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				167300					
Frequency (MHz)				836.5					
25	PI/2 BPSK	1	1	22.86			24.0	0.0	
25	PI/2 BPSK	1	64	22.83					
25	PI/2 BPSK	1	131	22.77					
25	PI/2 BPSK	64	0	22.38			23.5	0.5	
25	PI/2 BPSK	64	33	22.81			24.0	0.0	
25	PI/2 BPSK	64	65	22.37			23.5	0.5	
25	PI/2 BPSK	128	0	22.37					
25	QPSK	1	1	22.92			24.0	0.0	
25	QPSK	1	64	22.84					
25	QPSK	1	131	22.75					
25	QPSK	64	0	21.89			23.0	1.0	
25	QPSK	64	33	22.87			24.0	0.0	
25	QPSK	64	65	21.83			23.0	1.0	
25	QPSK	128	0	21.84					
25	16QAM	1	1	21.74			23.0	1.0	
25	64QAM	1	1	20.04			21.5	2.5	
25	256QAM	1	1	18.71			19.5	4.5	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.64	22.74	22.52	24.0	0.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.69	22.84	22.62	24.0	0.0	
Channel				163800	167300	169800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.72	22.77	22.59	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.64	22.86	22.61	24.0	0.0	

n26 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800					
Frequency (MHz)				824					
20	PI/2 BPSK	1	1	22.70	22.89	22.76	24.0	0.0	
20	PI/2 BPSK	1	53	22.69	22.86	22.71			
20	PI/2 BPSK	1	104	22.57	22.77	22.68			
20	PI/2 BPSK	50	0	22.38	22.56	22.48	23.5	0.5	
20	PI/2 BPSK	50	28	22.68	22.87	22.75	24.0	0.0	
20	PI/2 BPSK	50	56	22.23	22.45	22.31	23.5	0.5	
20	PI/2 BPSK	100	0	22.32	22.51	22.37			
20	QPSK	1	1	22.76	22.94	22.81	24.0	0.0	
20	QPSK	1	53	22.71	22.89	22.79			
20	QPSK	1	104	22.53	22.74	22.62			
20	QPSK	50	0	21.79	21.98	21.83	23.0	1.0	
20	QPSK	50	28	22.70	22.89	22.75	24.0	0.0	
20	QPSK	50	56	21.67	21.91	21.84	23.0	1.0	
20	QPSK	100	0	21.79	21.96	21.82			
20	16QAM	1	1	21.31	21.56	21.43	23.0	1.0	
20	64QAM	1	1	19.87	20.08	19.99	21.5	2.5	
20	256QAM	1	1	18.51	18.71	18.64	19.5	4.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.68	22.80	22.70	24.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.69	22.85	22.70	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.71	22.81	22.89	24.0	0.0	



n7 Ant1 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	22.85	22.95	22.80		
50	PI/2 BPSK	1	135	22.73	22.85	22.65	24.0	0.0
50	PI/2 BPSK	1	268	22.49	22.55	22.36		
50	PI/2 BPSK	135	0	22.19	22.31	22.14	23.5	0.5
50	PI/2 BPSK	135	68	22.29	22.41	22.19	24.0	0.0
50	PI/2 BPSK	135	135	22.23	22.34	22.16		
50	PI/2 BPSK	270	0	22.22	22.33	22.14	23.5	0.5
50	QPSK	1	1	22.89	22.98	22.81		
50	QPSK	1	135	22.66	22.79	22.55	24.0	0.0
50	QPSK	1	268	22.38	22.47	22.25		
50	QPSK	135	0	21.69	21.81	21.61	23.0	1.0
50	QPSK	135	68	22.82	22.93	22.70	24.0	0.0
50	QPSK	135	135	21.70	21.82	21.57		
50	QPSK	270	0	21.66	21.78	21.54	23.0	1.0
50	16QAM	1	1	21.10	21.19	21.07	23.0	1.0
50	64QAM	1	1	19.81	19.90	19.72	21.5	2.5
50	256QAM	1	1	18.49	18.59	18.38	19.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	22.83	22.86	22.69	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.83	22.83	22.74	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.83	22.88	22.68	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.76	22.84	22.69	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.80	22.90	22.68	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.79	22.87	22.74	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.77	22.89	22.72	24.0	0.0



Part270 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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	20.71	20.67	20.76			
100	PI/2 BPSK	1	137	19.19	19.82	19.77	22.5	0.0	
100	PI/2 BPSK	1	271	19.76	19.88	19.77			
100	PI/2 BPSK	135	0	20.49	20.46	20.30	22.5	0.0	
100	PI/2 BPSK	135	69	20.69	20.72	20.50	22.5	0.0	
100	PI/2 BPSK	135	138	20.39	20.34	20.33	22.5	0.0	
100	PI/2 BPSK	270	0	20.35	20.26	20.20			
100	QPSK	1	1	19.46	20.01	19.85			
100	QPSK	1	137	20.83	20.85	20.81	22.5	0.0	
100	QPSK	1	271	19.90	19.97	19.93			
100	QPSK	135	0	20.53	20.59	20.55	22.5	0.0	
100	QPSK	135	69	20.75	20.78	20.70	22.5	0.0	
100	QPSK	135	138	20.54	20.59	20.57	22.5	0.0	
100	QPSK	270	0	20.49	20.53	20.47			
100	16QAM	1	1	20.58	20.56	20.68	22.5	0.0	
100	64QAM	1	1	20.46	20.57	20.72	22.5	0.0	
100	256QAM	1	1	20.55	20.47	20.68	22.5	0.0	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	120	20.47	20.50	20.52	22.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	20.60	20.46	20.73	22.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	20.63	20.51	20.65	22.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	20.49	20.47	20.57	22.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	20.62	20.58	20.66	22.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	20.46	20.60	20.67	22.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	39	20.57	20.63	20.50	22.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	20.59	20.45	20.66	22.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	20.65	20.56	20.51	22.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	20.60	20.58	20.72	22.5	0.0	

Part270 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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	20.10	20.57	20.11			
100	PI/2 BPSK	1	137	21.06	21.55	21.12	23.5	0.0	
100	PI/2 BPSK	1	271	19.72	20.15	19.76			
100	PI/2 BPSK	135	0	20.52	20.97	20.54	22.5	1.0	
100	PI/2 BPSK	135	69	20.90	21.48	21.20	23.5	0.0	
100	PI/2 BPSK	135	138	20.53	21.08	20.60	22.5	1.0	
100	PI/2 BPSK	270	0	20.56	20.95	20.59			
100	QPSK	1	1	20.04	20.58	20.22			
100	QPSK	1	137	21.35	21.75	21.39	23.5	0.0	
100	QPSK	1	271	19.21	19.78	19.32			
100	QPSK	135	0	19.81	20.41	19.96	22.5	1.0	
100	QPSK	135	69	21.00	21.62	21.20	23.5	0.0	
100	QPSK	135	138	20.05	20.51	20.19	22.5	1.0	
100	QPSK	270	0	19.91	20.59	19.96			
100	16QAM	1	1	19.17	19.76	19.41	21.5	2.0	
100	64QAM	1	1	17.79	18.29	17.99	20.0	3.5	
100	256QAM	1	1	15.92	16.26	16.01	18.0	5.5	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	120	21.10	21.54	21.21	23.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	21.19	21.69	21.22	23.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	21.17	21.66	21.27	23.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	21.08	21.56	21.25	23.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	21.23	21.84	21.21	23.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	21.24	21.62	21.25	23.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	39	21.22	21.70	21.18	23.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	21.09	21.54	21.26	23.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	21.26	21.83	21.14	23.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	21.10	21.70	21.25	23.5	0.0	



Part270 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					650000				
Frequency (MHz)					3750				
100	PI/2 BPSK	1	1	20.45			22.5	0.0	
100	PI/2 BPSK	1	137	21.08					
100	PI/2 BPSK	1	271	20.68					
100	PI/2 BPSK	135	0	20.96			22.0	0.5	
100	PI/2 BPSK	135	69	21.03			22.5	0.0	
100	PI/2 BPSK	135	138	21.26					
100	PI/2 BPSK	270	0	21.10			22.0	0.5	
100	QPSK	1	1	20.33					
100	QPSK	1	137	21.50			22.5	0.0	
100	QPSK	1	271	20.77					
100	QPSK	135	0	20.97			22.0	0.5	
100	QPSK	135	69	21.17			22.5	0.0	
100	QPSK	135	138	21.10					
100	QPSK	270	0	20.91			22.0	0.5	
100	16QAM	1	1	20.07			21.0	1.5	
100	64QAM	1	1	20.14			21.0	1.5	
100	256QAM	1	1	19.25			20.5	2.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	120	21.26	21.31	21.27	22.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	21.06	21.19	21.22	22.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	21.20	21.26	21.19	22.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	21.19	21.16	21.17	22.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	21.22	21.18	21.14	22.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	21.09	21.15	21.06	22.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	21.03	21.15	21.13	22.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	21.08	21.28	21.15	22.5	0.0	
Channel				647168	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	21.03	21.28	21.18	22.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	21.04	21.23	21.01	22.5	0.0	

Part270 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					650000				
Frequency (MHz)					3750				
100	PI/2 BPSK	1	1	21.36			23.5	0.0	
100	PI/2 BPSK	1	137	22.07					
100	PI/2 BPSK	1	271	21.83					
100	PI/2 BPSK	135	0	21.42			22.5	1.0	
100	PI/2 BPSK	135	69	21.90			23.5	0.0	
100	PI/2 BPSK	135	138	21.80					
100	PI/2 BPSK	270	0	21.46			22.5	1.0	
100	QPSK	1	1	21.12					
100	QPSK	1	137	22.15			23.5	0.0	
100	QPSK	1	271	21.50					
100	QPSK	135	0	20.91			22.5	1.0	
100	QPSK	135	69	22.13			23.5	0.0	
100	QPSK	135	138	21.07					
100	QPSK	270	0	20.95			22.5	1.0	
100	16QAM	1	1	20.64			22.0	1.5	
100	64QAM	1	1	19.00			20.5	3.0	
100	256QAM	1	1	17.06			18.5	5.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	120	21.84	22.05	22.02	23.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	21.68	21.67	21.79	23.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3785			
70	QPSK	1	95	21.88	21.85	21.83	23.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	21.84	21.81	21.79	23.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	21.67	21.80	21.92	23.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	21.85	21.83	21.80	23.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	21.71	21.84	21.84	23.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	21.84	21.91	21.99	23.5	0.0	
Channel				647168	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	21.75	22.00	21.75	23.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	21.69	21.80	21.85	23.5	0.0	



Part270 n77 Main PA Ant2 PC2&PC3 ECI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.06	18.09	17.97	20.0	0.0
100	PI/2 BPSK	1	137	17.88	18.28	18.04		
100	PI/2 BPSK	1	271	18.03	18.16	18.06	20.0	0.0
100	PI/2 BPSK	135	0	17.97	18.26	18.09	20.0	0.0
100	PI/2 BPSK	135	69	18.08	18.11	18.09	20.0	0.0
100	PI/2 BPSK	135	138	18.00	18.16	18.07		
100	PI/2 BPSK	270	0	18.00	18.07	17.89	20.0	0.0
100	QPSK	1	1	17.85	17.89	17.82		
100	QPSK	1	137	18.27	18.29	17.26	20.0	0.0
100	QPSK	1	271	17.76	17.86	17.81	18.0	2.0
100	QPSK	135	0	18.19	18.23	18.21	20.0	0.0
100	QPSK	135	69	18.00	18.25	18.01	20.0	0.0
100	QPSK	135	138	18.09	18.22	17.89		
100	QPSK	270	0	18.17	18.21	18.15	20.0	0.0
100	16QAM	1	1	17.87	18.17	18.00	20.0	0.0
100	64QAM	1	1	18.04	18.08	17.91	20.0	0.0
100	256QAM	1	1	17.59	17.61	17.53	18.5	1.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	18.18	18.34	17.18	20.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	18.24	18.12	17.26	20.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	18.21	18.19	17.22	20.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	18.28	18.28	17.27	20.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	18.24	18.13	17.09	20.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	18.10	18.32	17.25	20.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	18.14	18.29	17.21	20.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	18.31	18.15	17.30	20.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	18.28	18.22	17.30	20.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	18.09	18.31	17.15	20.0	0.0

Part270 n78 Main PA Ant2 PC2&PC3 ECI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000			
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	18.06				
100	PI/2 BPSK	1	137	17.90			20.0	0.0
100	PI/2 BPSK	1	271	17.82				
100	PI/2 BPSK	135	0	17.96			20.0	0.0
100	PI/2 BPSK	135	69	18.06			20.0	0.0
100	PI/2 BPSK	135	138	17.88				
100	PI/2 BPSK	270	0	18.04			20.0	0.0
100	QPSK	1	1	17.69				
100	QPSK	1	137	18.11			20.0	0.0
100	QPSK	1	271	17.82				
100	QPSK	135	0	17.82			20.0	0.0
100	QPSK	135	69	18.07			20.0	0.0
100	QPSK	135	138	18.03				
100	QPSK	270	0	18.04			20.0	0.0
100	16QAM	1	1	17.91			20.0	0.0
100	64QAM	1	1	18.00			20.0	0.0
100	256QAM	1	1	17.95			18.5	1.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	120	17.94	17.96	18.02	20.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	17.89	17.77	17.88	20.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	95	17.80	17.86	18.03	20.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	17.80	17.86	17.94	20.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	17.86	17.84	17.88	20.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	17.98	17.89	17.96	20.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	39	18.01	17.94	17.95	20.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	17.83	17.65	17.67	20.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	19	17.80	17.87	17.83	20.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	12	17.81	17.87	17.91	20.0	0.0



n38 Main PA Ant4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	22.89	22.91	22.83	24.0	0.0
40	PI/2 BPSK	1	53	22.82	22.85	22.78		
40	PI/2 BPSK	1	104	22.42	22.47	22.44		
40	PI/2 BPSK	50	0	22.69	22.73	22.70	23.5	0.5
40	PI/2 BPSK	50	28	22.80	22.88	22.80	24.0	0.0
40	PI/2 BPSK	50	56	22.37	22.46	22.36	23.5	0.5
40	PI/2 BPSK	100	0	22.61	22.67	22.63		
40	QPSK	1	1	22.85	22.98	22.81	24.0	0.0
40	QPSK	1	53	22.79	22.82	22.75		
40	QPSK	1	104	22.39	22.46	22.37		
40	QPSK	50	0	22.19	22.24	22.20	23.0	1.0
40	QPSK	50	28	22.72	22.81	22.73	24.0	0.0
40	QPSK	50	56	21.90	21.95	21.91	23.0	1.0
40	QPSK	100	0	22.08	22.13	22.07		
40	16QAM	1	1	21.54	21.63	21.59	23.0	1.0
40	64QAM	1	1	20.15	20.19	20.15	21.5	2.5
40	256QAM	1	1	18.70	18.76	18.68	19.5	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99	24.0	0.0
30	QPSK	1	1	22.76	22.90	22.74	24.0	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2582.52	2595	2607.48	24.0	0.0
25	QPSK	1	1	22.75	22.90	22.71	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610	24.0	0.0
20	QPSK	1	1	22.78	22.93	22.73	24.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49	24.0	0.0
15	QPSK	1	1	22.76	22.91	22.77	24.0	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98	24.0	0.0
10	QPSK	1	1	22.80	22.93	22.77	24.0	0.0

n41 Main PA Ant4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2548.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.89	22.92	22.86	24.0	0.0
100	PI/2 BPSK	1	137	22.79	22.89	22.85		
100	PI/2 BPSK	1	271	22.14	22.21	22.12		
100	PI/2 BPSK	135	0	22.34	22.43	22.36	23.5	0.5
100	PI/2 BPSK	135	69	22.84	22.88	22.85	24.0	0.0
100	PI/2 BPSK	135	138	22.62	22.69	22.63	23.5	0.5
100	PI/2 BPSK	270	0	22.81	22.86	22.83		
100	QPSK	1	1	22.95	23.08	22.81	24.0	0.0
100	QPSK	1	137	22.93	22.99	22.95		
100	QPSK	1	271	22.08	22.14	22.12		
100	QPSK	135	0	22.81	22.89	22.87	23.0	1.0
100	QPSK	135	69	22.92	23.01	22.97	24.0	0.0
100	QPSK	135	138	22.12	22.18	22.09	23.0	1.0
100	QPSK	270	0	22.45	22.55	22.48		
100	16QAM	1	1	22.00	22.04	21.98	23.0	1.0
100	64QAM	1	1	20.51	20.56	20.46	21.5	2.5
100	256QAM	1	1	19.09	19.17	19.09	19.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0
90	QPSK	1	1	22.93	23.02	22.77	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0
80	QPSK	1	1	22.93	23.03	22.73	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	24.0	0.0
70	QPSK	1	1	22.91	23.05	22.76	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98	24.0	0.0
60	QPSK	1	1	22.85	23.01	22.78	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0
50	QPSK	1	1	22.89	23.05	22.77	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670.99	24.0	0.0
40	QPSK	1	1	22.87	23.04	22.76	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	24.0	0.0
30	QPSK	1	1	22.89	23.04	22.74	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2676.99	24.0	0.0
20	QPSK	1	1	22.98	23.01	22.74	24.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48	24.0	0.0
15	QPSK	1	1	22.98	23.03	22.75	24.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	24.0	0.0
10	QPSK	1	1	22.89	23.03	22.73	24.0	0.0



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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	21.57	22.02	21.90			
100	PI/2 BPSK	1	137	22.46	22.77	22.69	24.0	0.0	
100	PI/2 BPSK	1	271	22.07	22.32	22.10			
100	PI/2 BPSK	135	0	22.37	22.71	22.60	23.5	0.5	
100	PI/2 BPSK	135	69	22.66	22.92	22.69	24.0	0.0	
100	PI/2 BPSK	135	138	22.66	22.87	22.74	23.5	0.5	
100	PI/2 BPSK	270	0	22.39	22.79	22.72			
100	QPSK	1	1	21.87	22.20	22.15			
100	QPSK	1	137	22.68	22.93	22.67	24.0	0.0	
100	QPSK	1	271	22.01	22.22	22.08			
100	QPSK	135	0	22.27	22.64	22.37	23.0	1.0	
100	QPSK	135	69	22.62	22.89	22.68	24.0	0.0	
100	QPSK	135	138	22.32	22.75	22.61	23.0	1.0	
100	QPSK	270	0	22.33	22.68	22.46			
100	16QAM	1	1	21.52	21.78	21.62	23.0	1.0	
100	64QAM	1	1	21.62	21.87	21.64	21.5	2.5	
100	256QAM	1	1	20.70	20.96	20.78	21.5	2.5	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	120	22.61	22.77	22.57	24.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	22.44	22.70	22.55	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	22.60	22.70	22.44	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	22.65	22.71	22.45	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	22.52	22.73	22.45	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	22.42	22.75	22.48	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	39	22.42	22.80	22.61	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	22.54	22.80	22.44	24.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	22.59	22.72	22.57	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	22.56	22.75	22.60	24.0	0.0	

Part270 n77 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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	23.63	23.79	23.67			
100	PI/2 BPSK	1	137	24.51	24.65	24.48	26.5	0.0	
100	PI/2 BPSK	1	271	23.88	24.03	23.87			
100	PI/2 BPSK	135	0	23.84	24.06	23.97	26.0	0.5	
100	PI/2 BPSK	135	69	24.55	24.65	24.53	26.5	0.0	
100	PI/2 BPSK	135	138	23.96	24.10	24.02	26.0	0.5	
100	PI/2 BPSK	270	0	23.93	24.13	23.96			
100	QPSK	1	1	23.62	23.84	23.72			
100	QPSK	1	137	24.68	24.80	24.67	26.5	0.0	
100	QPSK	1	271	23.96	23.99	23.91			
100	QPSK	135	0	23.31	23.54	23.51	25.5	1.0	
100	QPSK	135	69	24.52	24.73	24.69	26.5	0.0	
100	QPSK	135	138	23.44	23.63	23.39	25.5	1.0	
100	QPSK	270	0	23.47	23.55	23.29			
100	16QAM	1	1	22.83	23.09	22.94	25.5	1.0	
100	64QAM	1	1	21.32	21.51	21.26	22.5	4.0	
100	256QAM	1	1	18.48	18.60	18.38	20.5	6.0	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	120	24.52	24.55	24.58	26.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	24.54	24.72	24.54	26.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	24.51	24.67	24.52	26.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	24.58	24.75	24.59	26.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	24.65	24.81	24.54	26.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	24.59	24.74	24.58	26.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	39	24.58	24.71	24.57	26.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	24.59	24.76	24.51	26.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	24.51	24.75	24.56	26.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	24.53	24.56	24.54	26.5	0.0	



Part270 n78 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				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
100	PI/2 BPSK	1	1	22.72			24.0	0.0	
100	PI/2 BPSK	1	137	23.27					
100	PI/2 BPSK	1	271	22.79					
100	PI/2 BPSK	135	0	23.30			24.0	0.0	
100	PI/2 BPSK	135	69	23.28			24.0	0.0	
100	PI/2 BPSK	135	138	23.33			24.0	0.0	
100	PI/2 BPSK	270	0	23.30					
100	QPSK	1	1	22.76			24.0	0.0	
100	QPSK	1	137	23.41					
100	QPSK	1	271	22.76					
100	QPSK	135	0	23.31			24.0	0.0	
100	QPSK	135	69	23.33			24.0	0.0	
100	QPSK	135	138	23.26			24.0	0.0	
100	QPSK	270	0	23.27					
100	16QAM	1	1	22.49			24.0	0.0	
100	64QAM	1	1	22.48			24.0	0.0	
100	256QAM	1	1	21.62			22.5	1.5	
Channel				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	120	23.18	23.23	23.32	24.0	0.0	
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	23.22	23.37	23.17	24.0	0.0	
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	23.15	23.14	23.36	24.0	0.0	
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	23.23	23.26	23.23	24.0	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	23.33	23.28	23.19	24.0	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	23.25	23.36	23.23	24.0	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	23.15	23.15	23.22	24.0	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	23.19	23.26	23.19	24.0	0.0	
Channel				647168	650000	652834			
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	23.16	23.32	23.29	24.0	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	23.26	23.23	23.36	24.0	0.0	

Part270 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				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
100	PI/2 BPSK	1	1	24.07			26.5	0.0	
100	PI/2 BPSK	1	137	24.79					
100	PI/2 BPSK	1	271	24.15					
100	PI/2 BPSK	135	0	24.20			26.0	0.5	
100	PI/2 BPSK	135	69	24.85			26.5	0.0	
100	PI/2 BPSK	135	138	24.22			26.0	0.5	
100	PI/2 BPSK	270	0	24.24					
100	QPSK	1	1	24.04			26.5	0.0	
100	QPSK	1	137	24.88					
100	QPSK	1	271	24.05					
100	QPSK	135	0	23.71			25.5	1.0	
100	QPSK	135	69	23.78			26.5	0.0	
100	QPSK	135	138	23.78			26.5	0.0	
100	QPSK	270	0	23.76			25.5	1.0	
100	16QAM	1	1	23.35			25.5	1.0	
100	64QAM	1	1	21.79			24.0	2.5	
100	256QAM	1	1	19.01			22.0	4.5	
Channel				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	120	24.84	24.74	24.85	26.5	0.0	
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	24.65	24.66	24.67	26.5	0.0	
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	24.77	24.73	24.63	26.5	0.0	
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	24.83	24.67	24.64	26.5	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	24.75	24.80	24.71	26.5	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	24.82	24.74	24.78	26.5	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	24.80	24.67	24.77	26.5	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	24.77	24.69	24.70	26.5	0.0	
Channel				647168	650000	652834			
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	24.82	24.69	24.73	26.5	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	24.88	24.74	24.69	26.5	0.0	



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	PI/2 BPSK	1	1	19.63	19.96	19.61			
100	PI/2 BPSK	1	137	19.96	20.39	20.25	22.5	0.0	
100	PI/2 BPSK	1	271	19.50	19.79	19.82			
100	PI/2 BPSK	135	0	20.03	20.37	20.30	22.5	0.0	
100	PI/2 BPSK	135	69	20.07	20.60	20.30	22.5	0.0	
100	PI/2 BPSK	135	138	20.03	20.38	20.15	22.5	0.0	
100	PI/2 BPSK	270	0	20.27	20.37	20.22			
100	QPSK	1	1	19.76	20.04	19.88			
100	QPSK	1	137	20.33	20.67	20.41	22.5	0.0	
100	QPSK	1	271	19.70	20.06	19.95			
100	QPSK	135	0	20.25	20.52	20.38	22.5	0.0	
100	QPSK	135	69	20.26	20.62	20.41	22.5	0.0	
100	QPSK	135	138	20.17	20.45	20.41	22.5	0.0	
100	QPSK	270	0	20.32	20.53	20.44	22.5	0.0	
100	16QAM	1	1	19.46	19.73	19.45	22.5	0.0	
100	64QAM	1	1	19.38	19.75	19.70	20.0	2.5	
100	256QAM	1	1	18.60	18.94	18.85	20.0	2.5	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	120	20.29	20.62	20.36	22.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	20.26	20.42	20.33	22.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	20.25	20.58	20.33	22.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	20.24	20.40	20.19	22.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	20.21	20.44	20.21	22.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	20.16	20.61	20.32	22.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	39	20.25	20.47	20.16	22.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	20.22	20.58	20.22	22.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	20.11	20.46	20.15	22.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	20.28	20.56	20.17	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	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	21.16	21.57	21.32			
100	PI/2 BPSK	1	137	21.83	22.10	21.83	24.5	0.0	
100	PI/2 BPSK	1	271	21.29	21.73	21.52			
100	PI/2 BPSK	135	0	21.49	21.78	21.40	24.0	0.5	
100	PI/2 BPSK	135	69	22.12	22.13	22.27	24.5	0.0	
100	PI/2 BPSK	135	138	21.69	21.93	21.68	24.0	0.5	
100	PI/2 BPSK	270	0	21.81	21.84	21.57			
100	QPSK	1	1	21.14	21.48	21.22			
100	QPSK	1	137	22.27	22.65	22.42	24.5	0.0	
100	QPSK	1	271	21.44	21.83	21.68			
100	QPSK	135	0	21.15	21.45	21.29	23.5	1.0	
100	QPSK	135	69	22.19	22.83	22.27	24.5	0.0	
100	QPSK	135	138	21.15	21.56	21.31	23.5	1.0	
100	QPSK	270	0	21.33	21.55	21.36	23.5	1.0	
100	16QAM	1	1	20.56	20.88	20.71	23.5	1.0	
100	64QAM	1	1	18.93	19.37	19.15	22.0	2.5	
100	256QAM	1	1	16.94	17.29	16.93	20.0	4.5	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	120	22.09	22.47	22.17	24.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	22.06	22.37	22.24	24.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	22.03	22.39	22.18	24.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	22.09	22.46	22.22	24.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	22.06	22.48	22.25	24.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	22.08	22.41	22.15	24.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	39	22.09	22.37	22.16	24.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	22.07	22.47	22.23	24.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	22.04	22.42	22.20	24.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	22.09	22.40	22.13	24.5	0.0	



Part270 n78 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					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	19.89					
100	PI/2 BPSK	1	137	20.51			22.5	0.0	
100	PI/2 BPSK	1	271	19.91					
100	PI/2 BPSK	135	0	20.46			22.5	0.0	
100	PI/2 BPSK	135	69	20.54			22.5	0.0	
100	PI/2 BPSK	135	138	20.58			22.5	0.0	
100	PI/2 BPSK	270	0	20.52					
100	QPSK	1	1	19.92					
100	QPSK	1	137	20.66			22.5	0.0	
100	QPSK	1	271	20.01					
100	QPSK	135	0	20.48			22.5	0.0	
100	QPSK	135	69	20.64			22.5	0.0	
100	QPSK	135	138	20.56			22.5	0.0	
100	QPSK	270	0	20.56					
100	16QAM	1	1	19.79			22.5	0.0	
100	64QAM	1	1	19.80			22.5	0.0	
100	256QAM	1	1	18.95			20.0	2.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	120	20.54	20.54	20.63	22.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	20.46	20.56	20.58	22.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	20.61	20.51	20.40	22.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	20.62	20.54	20.49	22.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	20.58	20.41	20.57	22.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	20.50	20.62	20.59	22.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	20.48	20.63	20.62	22.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	20.61	20.54	20.55	22.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	20.58	20.57	20.54	22.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	20.58	20.52	20.55	22.5	0.0	

Part270 n78 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					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	21.80					
100	PI/2 BPSK	1	137	22.67			24.5	0.0	
100	PI/2 BPSK	1	271	21.96					
100	PI/2 BPSK	135	0	22.04			24.0	0.5	
100	PI/2 BPSK	135	69	22.50			24.5	0.0	
100	PI/2 BPSK	135	138	22.05			24.0	0.5	
100	PI/2 BPSK	270	0	22.01					
100	QPSK	1	1	21.60					
100	QPSK	1	137	22.75			24.5	0.0	
100	QPSK	1	271	21.95					
100	QPSK	135	0	21.58			23.5	1.0	
100	QPSK	135	69	22.88			24.5	0.0	
100	QPSK	135	138	21.58			23.5	1.0	
100	QPSK	270	0	21.53					
100	16QAM	1	1	21.26			23.5	1.0	
100	64QAM	1	1	19.66			22.0	2.5	
100	256QAM	1	1	17.60			20.0	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	120	22.71	22.59	22.49	24.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	22.51	22.57	22.49	24.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	22.61	22.69	22.49	24.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	22.88	22.82	22.82	24.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	22.57	22.57	22.49	24.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	22.58	22.57	22.55	24.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	22.55	22.63	22.59	24.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	22.71	22.68	22.62	24.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	22.49	22.86	22.88	24.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	22.57	22.60	22.55	24.5	0.0	



Reduced Power Mode for Main PA ECI6

n5 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				167300					
Frequency (MHz)				836.5					
25	PI/2 BPSK	1	1	22.86			24.0	0.0	
25	PI/2 BPSK	1	64	22.83					
25	PI/2 BPSK	1	131	22.77					
25	PI/2 BPSK	64	0	22.38			23.5	0.5	
25	PI/2 BPSK	64	33	22.81			24.0	0.0	
25	PI/2 BPSK	64	65	22.37			23.5	0.5	
25	PI/2 BPSK	128	0	22.37					
25	QPSK	1	1	22.92			24.0	0.0	
25	QPSK	1	64	22.84					
25	QPSK	1	131	22.75					
25	QPSK	64	0	21.89			23.0	1.0	
25	QPSK	64	33	22.87			24.0	0.0	
25	QPSK	64	65	21.83			23.0	1.0	
25	QPSK	128	0	21.84					
25	16QAM	1	1	21.74			23.0	1.0	
25	64QAM	1	1	20.04			21.5	2.5	
25	256QAM	1	1	18.71			19.5	4.5	
Channel				166800	167300	167800			
Frequency (MHz)				836.5			839		
20	QPSK	1	1	22.64	22.74	22.52	24.0	0.0	
Channel				166300	167300	168300			
Frequency (MHz)				831.5			836.5	841.5	
15	QPSK	1	1	22.69	22.84	22.62	24.0	0.0	
Channel				163800	167300	169800			
Frequency (MHz)				829			836.5	844	
10	QPSK	1	1	22.72	22.77	22.59	24.0	0.0	
Channel				165300	167300	169300			
Frequency (MHz)				826.5			836.5	846.5	
5	QPSK	1	1	22.64	22.86	22.61	24.0	0.0	

n26 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800			166300	167800	
Frequency (MHz)				824			831.5	839	
20	PI/2 BPSK	1	1	22.70	22.89	22.76	24.0	0.0	
20	PI/2 BPSK	1	53	22.69	22.86	22.71			
20	PI/2 BPSK	1	104	22.57	22.77	22.68			
20	PI/2 BPSK	50	0	22.38	22.56	22.48	23.5	0.5	
20	PI/2 BPSK	50	28	22.68	22.87	22.75	24.0	0.0	
20	PI/2 BPSK	50	56	22.23	22.45	22.31	23.5	0.5	
20	PI/2 BPSK	100	0	22.32	22.51	22.37			
20	QPSK	1	1	22.76	22.94	22.81	24.0	0.0	
20	QPSK	1	53	22.71	22.89	22.79			
20	QPSK	1	104	22.53	22.74	22.62			
20	QPSK	50	0	21.79	21.98	21.83	23.0	1.0	
20	QPSK	50	28	22.70	22.89	22.75	24.0	0.0	
20	QPSK	50	56	21.67	21.91	21.84	23.0	1.0	
20	QPSK	100	0	21.79	21.96	21.82			
20	16QAM	1	1	21.31	21.56	21.43	23.0	1.0	
20	64QAM	1	1	19.87	20.08	19.99	21.5	2.5	
20	256QAM	1	1	18.51	18.71	18.64	19.5	4.5	
Channel				164300	166300	168300			
Frequency (MHz)				821.5			831.5	841.5	
15	QPSK	1	1	22.68	22.80	22.70	24.0	0.0	
Channel				163800	166300	168800			
Frequency (MHz)				819			831.5	844	
10	QPSK	1	1	22.69	22.85	22.70	24.0	0.0	
Channel				163300	166300	169300			
Frequency (MHz)				816.5			831.5	846.5	
5	QPSK	1	1	22.71	22.81	22.89	24.0	0.0	

n7 Ant1 DCI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	18.86	18.80	18.76		
50	PI/2 BPSK	1	135	18.87	18.96	18.67	20.0	0.0
50	PI/2 BPSK	1	268	18.78	18.94	18.79		
50	PI/2 BPSK	135	0	18.80	18.92	18.73	20.0	0.0
50	PI/2 BPSK	135	68	18.75	18.98	18.69	20.0	0.0
50	PI/2 BPSK	135	135	18.85	18.95	18.76	20.0	0.0
50	PI/2 BPSK	270	0	18.67	18.88	18.64		
50	QPSK	1	1	18.93	18.99	18.88		
50	QPSK	1	135	18.77	18.90	18.72	20.0	0.0
50	QPSK	1	268	18.85	18.83	18.71		
50	QPSK	135	0	18.86	18.89	18.88	20.0	0.0
50	QPSK	135	68	18.79	18.92	18.73	20.0	0.0
50	QPSK	135	135	18.69	18.86	18.58	20.0	0.0
50	QPSK	270	0	18.84	18.89	18.87		
50	16QAM	1	1	18.77	18.84	18.61	20.0	0.0
50	64QAM	1	1	18.85	18.91	18.78	20.0	0.0
50	256QAM	1	1	18.15	18.29	18.23	19.5	0.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	18.63	18.80	18.53	20.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	18.60	18.76	18.61	20.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	18.62	18.74	18.62	20.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	18.71	18.81	18.61	20.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	18.61	18.78	18.64	20.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	18.62	18.63	18.68	20.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	18.62	18.71	18.59	20.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.71	20.67	20.76		
100	PI/2 BPSK	1	137	19.19	19.82	19.77	22.5	0.0
100	PI/2 BPSK	1	271	19.76	19.88	19.77		
100	PI/2 BPSK	135	0	20.49	20.46	20.30	22.5	0.0
100	PI/2 BPSK	135	69	20.69	20.72	20.50	22.5	0.0
100	PI/2 BPSK	135	138	20.39	20.34	20.33	22.5	0.0
100	PI/2 BPSK	270	0	20.35	20.26	20.20		
100	QPSK	1	1	19.46	20.01	19.85		
100	QPSK	1	137	20.83	20.85	20.81	22.5	0.0
100	QPSK	1	271	19.90	19.97	19.93		
100	QPSK	135	0	20.53	20.59	20.55	22.5	0.0
100	QPSK	135	69	20.75	20.78	20.70	22.5	0.0
100	QPSK	135	138	20.54	20.59	20.57	22.5	0.0
100	QPSK	270	0	20.49	20.53	20.47	22.5	0.0
100	16QAM	1	1	20.58	20.56	20.68	22.5	0.0
100	64QAM	1	1	20.46	20.57	20.72	22.5	0.0
100	256QAM	1	1	20.55	20.47	20.68	22.5	0.0
Channel				649668	656000	662334		
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	20.47	20.50	20.52	22.5	0.0
Channel				649334	656000	662668		
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	20.60	20.46	20.73	22.5	0.0
Channel				649000	656000	663000		
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	20.63	20.51	20.65	22.5	0.0
Channel				648668	656000	663334		
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	20.49	20.47	20.57	22.5	0.0
Channel				648334	656000	663668		
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	20.62	20.58	20.66	22.5	0.0
Channel				648000	656000	664000		
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	20.46	20.60	20.67	22.5	0.0
Channel				647668	656000	664334		
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	20.57	20.63	20.50	22.5	0.0
Channel				647334	656000	664668		
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	20.59	20.45	20.66	22.5	0.0
Channel				647168	656000	664834		
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	20.65	20.56	20.51	22.5	0.0
Channel				647000	656000	665000		
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	20.60	20.58	20.72	22.5	0.0

Part270 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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.10	20.57	20.11		
100	PI/2 BPSK	1	137	21.06	21.55	21.12	23.5	0.0
100	PI/2 BPSK	1	271	19.72	20.15	19.76		
100	PI/2 BPSK	135	0	20.52	20.97	20.54	22.5	1.0
100	PI/2 BPSK	135	69	20.90	21.48	21.20	23.5	0.0
100	PI/2 BPSK	135	138	20.53	21.08	20.60	22.5	1.0
100	PI/2 BPSK	270	0	20.56	20.95	20.59		
100	QPSK	1	1	20.04	20.58	20.22		
100	QPSK	1	137	21.35	21.75	21.39	23.5	0.0
100	QPSK	1	271	19.21	19.78	19.32		
100	QPSK	135	0	19.81	20.41	19.96	22.5	1.0
100	QPSK	135	69	21.00	21.62	21.20	23.5	0.0
100	QPSK	135	138	20.05	20.51	20.19	22.5	1.0
100	QPSK	270	0	19.91	20.59	19.96		
100	16QAM	1	1	19.17	19.76	19.41	21.5	2.0
100	64QAM	1	1	17.79	18.29	17.99	20.0	3.5
100	256QAM	1	1	15.92	16.26	16.01	18.0	5.5
Channel				649668	656000	662334		
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	21.10	21.54	21.21	23.5	0.0
Channel				649334	656000	662668		
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	21.19	21.69	21.22	23.5	0.0
Channel				649000	656000	663000		
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	21.17	21.66	21.27	23.5	0.0
Channel				648668	656000	663334		
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	21.08	21.56	21.25	23.5	0.0
Channel				648334	656000	663668		
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	21.23	21.64	21.21	23.5	0.0
Channel				648000	656000	664000		
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	21.24	21.62	21.25	23.5	0.0
Channel				647668	656000	664334		
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	21.22	21.70	21.18	23.5	0.0
Channel				647334	656000	664668		
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	21.09	21.54	21.26	23.5	0.0
Channel				647168	656000	664834		
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	21.26	21.83	21.14	23.5	0.0
Channel				647000	656000	665000		
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	21.10	21.70	21.25	23.5	0.0



Part270 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								
Frequency (MHz)				650000				
100	Pi/2 BPSK	1	1	20.45				
100	Pi/2 BPSK	1	137	21.08			22.5	0.0
100	Pi/2 BPSK	1	271	20.68				
100	Pi/2 BPSK	135	0	20.96			22.0	0.5
100	Pi/2 BPSK	135	69	21.03			22.5	0.0
100	Pi/2 BPSK	135	138	21.26			22.0	0.5
100	Pi/2 BPSK	270	0	21.10				
100	QPSK	1	1	20.33				
100	QPSK	1	137	21.50			22.5	0.0
100	QPSK	1	271	20.77				
100	QPSK	135	0	20.97			22.0	0.5
100	QPSK	135	69	21.17			22.5	0.0
100	QPSK	135	138	21.10			22.0	0.5
100	QPSK	270	0	20.91				
100	16QAM	1	1	20.07			21.0	1.5
100	64QAM	1	1	20.14			21.0	1.5
100	256QAM	1	1	19.25			20.5	2.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	120	21.26	21.31	21.27	22.5	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	109	3740.01	3750	3760.02	22.5	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	95	21.20	21.26	21.19	22.5	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	81	3730.02	3750	3770.01	22.5	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	67	21.22	21.18	21.14	22.5	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	53	3720	3750	3780	22.5	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	39	3715.02	3750	3785.01	22.5	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	26	3710.01	3750	3790.02	22.5	0.0
Channel								
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	19	3707.52	3750	3792.51	22.5	0.0
Channel								
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	12	3705	3750	3795	22.5	0.0

Part270 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								
Frequency (MHz)				650000				
100	Pi/2 BPSK	1	1	21.36				
100	Pi/2 BPSK	1	137	22.07			23.5	0.0
100	Pi/2 BPSK	1	271	21.83				
100	Pi/2 BPSK	135	0	21.42			22.5	1.0
100	Pi/2 BPSK	135	69	21.90			23.5	0.0
100	Pi/2 BPSK	135	138	21.80			22.5	1.0
100	Pi/2 BPSK	270	0	21.46				
100	QPSK	1	1	21.12				
100	QPSK	1	137	22.15			23.5	0.0
100	QPSK	1	271	21.50				
100	QPSK	135	0	20.91			22.5	1.0
100	QPSK	135	69	22.33			23.5	0.0
100	QPSK	135	138	21.07			22.5	1.0
100	QPSK	270	0	20.95				
100	16QAM	1	1	20.64			22.0	1.5
100	64QAM	1	1	19.00			20.5	3.0
100	256QAM	1	1	17.06			18.5	5.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	120	21.94	22.05	22.02	23.5	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	109	3740.01	3750	3760.02	23.5	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	95	21.88	21.85	21.83	23.5	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	81	3730.02	3750	3770.01	23.5	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	67	21.67	21.80	21.92	23.5	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	53	3720	3750	3780	23.5	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	39	3715.02	3750	3785.01	23.5	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	26	3710.01	3750	3790.02	23.5	0.0
Channel								
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	19	3707.52	3750	3792.51	23.5	0.0
Channel								
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	12	21.69	21.80	21.85	23.5	0.0



Part270 n77 PC2 Main PA Ant2 PC2&PC3 ECI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.06	18.09	17.97	20.0	0.0
100	PI/2 BPSK	1	137	17.88	18.28	18.04		
100	PI/2 BPSK	1	271	18.03	18.16	18.06	20.0	0.0
100	PI/2 BPSK	135	0	17.97	18.26	18.09	20.0	0.0
100	PI/2 BPSK	135	69	18.08	18.11	18.09	20.0	0.0
100	PI/2 BPSK	135	138	18.00	18.16	18.07		
100	PI/2 BPSK	270	0	18.00	18.07	17.89	20.0	0.0
100	QPSK	1	1	17.85	17.89	17.82		
100	QPSK	1	137	18.27	18.29	17.26	20.0	0.0
100	QPSK	1	271	17.76	17.86	17.81	18.0	2.0
100	QPSK	135	0	18.19	18.23	18.21	20.0	0.0
100	QPSK	135	69	18.00	18.25	18.01	20.0	0.0
100	QPSK	135	138	18.09	18.22	17.89		
100	QPSK	270	0	18.17	18.21	18.15	20.0	0.0
100	16QAM	1	1	17.87	18.17	18.00	20.0	0.0
100	64QAM	1	1	18.04	18.08	17.91	20.0	0.0
100	256QAM	1	1	17.59	17.61	17.53	18.5	1.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	18.18	18.34	17.18	20.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	18.24	18.12	17.26	20.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	18.21	18.19	17.22	20.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	18.28	18.28	17.27	20.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	18.24	18.13	17.09	20.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	18.10	18.32	17.25	20.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	18.14	18.29	17.21	20.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	18.31	18.15	17.30	20.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	18.28	18.22	17.30	20.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	18.09	18.31	17.15	20.0	0.0

Part270 n78 PC2 Main PA Ant2 PC2&PC3 ECI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000			
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	18.06				
100	PI/2 BPSK	1	137	17.90			20.0	0.0
100	PI/2 BPSK	1	271	17.82				
100	PI/2 BPSK	135	0	17.96			20.0	0.0
100	PI/2 BPSK	135	69	18.06			20.0	0.0
100	PI/2 BPSK	135	138	17.88				
100	PI/2 BPSK	270	0	18.04			20.0	0.0
100	QPSK	1	1	17.69				
100	QPSK	1	137	18.11			20.0	0.0
100	QPSK	1	271	17.82				
100	QPSK	135	0	18.07			20.0	0.0
100	QPSK	135	69	17.92			20.0	0.0
100	QPSK	135	138	18.03				
100	QPSK	270	0	18.04			20.0	0.0
100	16QAM	1	1	17.91			20.0	0.0
100	64QAM	1	1	18.00			20.0	0.0
100	256QAM	1	1	17.95			18.5	1.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	120	17.94	17.96	18.02	20.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	17.89	17.77	17.88	20.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	95	17.80	17.86	18.03	20.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	17.80	17.86	17.94	20.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	17.86	17.84	17.88	20.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	17.98	17.89	17.96	20.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	39	18.01	17.94	17.95	20.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	17.83	17.65	17.67	20.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	19	17.80	17.87	17.83	20.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	12	17.81	17.87	17.91	20.0	0.0



n38 Main PA Ant4 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.23	19.32	19.21			
40	PI/2 BPSK	1	53	19.14	19.39	19.24	20.5	0.0	
40	PI/2 BPSK	1	104	19.25	19.28	19.30			
40	PI/2 BPSK	50	0	19.16	19.37	19.14	20.5	0.0	
40	PI/2 BPSK	50	28	19.16	19.38	19.17	20.5	0.0	
40	PI/2 BPSK	50	56	19.29	19.36	19.31			
40	PI/2 BPSK	100	0	19.22	19.27	19.28	20.5	0.0	
40	QPSK	1	1	19.34	19.40	19.33			
40	QPSK	1	53	19.16	19.35	19.15	20.5	0.0	
40	QPSK	1	104	19.24	19.29	19.25			
40	QPSK	50	0	19.30	19.31	19.25	20.5	0.0	
40	QPSK	50	28	19.25	19.35	19.31	20.5	0.0	
40	QPSK	50	56	19.32	19.31	19.25			
40	QPSK	100	0	19.28	19.35	19.31	20.5	0.0	
40	16QAM	1	1	19.17	19.37	19.21	20.5	0.0	
40	64QAM	1	1	19.36	19.30	19.11	20.5	0.0	
40	256QAM	1	1	18.76	18.82	18.81	19.5	1.0	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.22	19.39	19.37	20.5	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	19.28	19.42	19.38	20.5	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.39	19.37	19.14	20.5	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.27	19.21	19.36	20.5	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.34	19.34	19.17	20.5	0.0	

n41 Main PA Ant4 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.43	19.42	19.25			
100	PI/2 BPSK	1	137	19.28	19.57	19.34	20.5	0.0	
100	PI/2 BPSK	1	271	19.28	19.57	19.22			
100	PI/2 BPSK	135	0	19.40	19.47	19.19	20.5	0.0	
100	PI/2 BPSK	135	69	19.32	19.47	19.20	20.5	0.0	
100	PI/2 BPSK	135	138	19.46	19.57	19.19			
100	PI/2 BPSK	270	0	19.28	19.40	19.27	20.5	0.0	
100	QPSK	1	1	19.53	19.65	19.58			
100	QPSK	1	137	19.32	19.50	19.26	20.5	0.0	
100	QPSK	1	271	19.29	19.63	19.18			
100	QPSK	135	0	19.43	19.51	19.50	20.5	0.0	
100	QPSK	135	69	19.35	19.54	19.12	20.5	0.0	
100	QPSK	135	138	19.50	19.47	19.21			
100	QPSK	270	0	19.47	19.49	19.44	20.5	0.0	
100	16QAM	1	1	19.26	19.54	19.23	20.5	0.0	
100	64QAM	1	1	19.41	19.52	19.26	20.5	0.0	
100	256QAM	1	1	18.29	18.41	18.27	19.5	1.0	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.57	19.64	19.50	20.5	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.48	19.64	19.46	20.5	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.41	19.64	19.55	20.5	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.34	19.49	19.45	20.5	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.38	19.62	19.42	20.5	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.40	19.61	19.63	20.5	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.50	19.51	19.42	20.5	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.36	19.62	19.48	20.5	0.0	
Channel				500700	518598	536996			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	19.37	19.51	19.62	20.5	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	19.44	19.53	19.46	20.5	0.0	



Part270 n77 Main PA Ant5 PC2&PC3 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	18.37	18.32	18.37			
100	PI/2 BPSK	1	137	18.19	18.40	18.29	19.0	0.0	
100	PI/2 BPSK	1	271	18.32	18.36	18.16			
100	PI/2 BPSK	135	0	18.37	18.29	18.33	19.0	0.0	
100	PI/2 BPSK	135	69	18.33	18.42	18.32	19.0	0.0	
100	PI/2 BPSK	135	138	18.26	18.27	18.30			
100	PI/2 BPSK	270	0	18.26	18.43	18.36	19.0	0.0	
100	QPSK	1	1	18.09	18.12	18.10			
100	QPSK	1	137	18.19	18.51	18.20	19.0	0.0	
100	QPSK	1	271	18.29	18.45	18.19			
100	QPSK	135	0	18.45	18.46	18.41	19.0	0.0	
100	QPSK	135	69	18.22	18.48	18.15	19.0	0.0	
100	QPSK	135	138	18.25	18.37	18.34			
100	QPSK	270	0	18.37	18.43	18.41	19.0	0.0	
100	16QAM	1	1	18.19	18.40	18.27	19.0	0.0	
100	64QAM	1	1	18.25	18.36	18.27	19.0	0.0	
100	256QAM	1	1	18.19	18.33	18.31	19.0	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	120	18.05	18.37	18.05	19.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	18.21	18.34	18.17	19.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	18.18	18.46	18.09	19.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	18.18	18.33	18.10	19.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	18.04	18.33	18.13	19.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	18.02	18.39	18.07	19.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	39	18.23	18.42	18.21	19.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	18.13	18.36	18.21	19.0	0.0	
Channel				647000	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	18.24	18.41	18.04	19.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	18.16	18.46	18.11	19.0	0.0	

Part270 n78 Main PA Ant5 PC2&PC3 ECI6									
BW [MHz]	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					
100	PI/2 BPSK	1	1	18.31					
100	PI/2 BPSK	1	137	18.31			19.0	0.0	
100	PI/2 BPSK	1	271	18.45					
100	PI/2 BPSK	135	0	18.31			19.0	0.0	
100	PI/2 BPSK	135	69	18.31			19.0	0.0	
100	PI/2 BPSK	135	138	18.38					
100	PI/2 BPSK	270	0	18.35			19.0	0.0	
100	QPSK	1	1	18.03					
100	QPSK	1	137	18.51			19.0	0.0	
100	QPSK	1	271	18.06					
100	QPSK	135	0	18.40			19.0	0.0	
100	QPSK	135	69	18.47			19.0	0.0	
100	QPSK	135	138	18.42					
100	QPSK	270	0	18.41			19.0	0.0	
100	16QAM	1	1	18.44			19.0	0.0	
100	64QAM	1	1	18.44			19.0	0.0	
100	256QAM	1	1	18.26			19.0	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	120	18.39	18.09	18.00	19.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	18.36	18.29	18.19	19.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	18.37	18.27	18.15	19.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	18.26	18.07	18.15	19.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	18.36	18.14	18.04	19.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	18.21	18.23	18.20	19.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	18.17	18.22	18.17	19.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	18.16	18.21	18.20	19.0	0.0	
Channel				647000	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	18.36	18.12	18.18	19.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	18.20	18.26	18.01	19.0	0.0	



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	PI/2 BPSK	1	1	19.63	19.96	19.61		
100	PI/2 BPSK	1	137	19.96	20.39	20.25	22.5	0.0
100	PI/2 BPSK	1	271	19.50	19.79	19.82		
100	PI/2 BPSK	135	0	20.03	20.37	20.30	22.5	0.0
100	PI/2 BPSK	135	69	20.07	20.60	20.30	22.5	0.0
100	PI/2 BPSK	135	138	20.03	20.38	20.15	22.5	0.0
100	PI/2 BPSK	270	0	20.27	20.37	20.22		
100	QPSK	1	1	19.76	20.04	19.88		
100	QPSK	1	137	20.33	20.67	20.41	22.5	0.0
100	QPSK	1	271	19.70	20.06	19.95		
100	QPSK	135	0	20.25	20.52	20.38	22.5	0.0
100	QPSK	135	69	20.26	20.62	20.41	22.5	0.0
100	QPSK	135	138	20.17	20.45	20.41	22.5	0.0
100	QPSK	270	0	20.32	20.53	20.44	22.5	0.0
100	16QAM	1	1	19.46	19.73	19.45	22.5	0.0
100	64QAM	1	1	19.38	19.75	19.70	20.0	2.5
100	256QAM	1	1	18.60	18.94	18.85	20.0	2.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	20.29	20.62	20.36	22.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	20.26	20.42	20.33	22.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	20.25	20.58	20.33	22.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	20.24	20.40	20.19	22.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	20.21	20.44	20.21	22.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	20.16	20.61	20.32	22.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	20.25	20.47	20.16	22.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	20.22	20.58	20.22	22.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	20.11	20.46	20.15	22.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	20.28	20.56	20.17	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	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.86	21.27	21.02		
100	PI/2 BPSK	1	137	21.53	21.80	21.53	24.5	0.0
100	PI/2 BPSK	1	271	20.99	21.43	21.22		
100	PI/2 BPSK	135	0	21.19	21.48	21.10	24.0	0.5
100	PI/2 BPSK	135	69	21.82	21.83	21.97	24.5	0.0
100	PI/2 BPSK	135	138	21.39	21.63	21.38	24.0	0.5
100	PI/2 BPSK	270	0	21.31	21.54	21.27		
100	QPSK	1	1	20.84	21.18	20.92		
100	QPSK	1	137	21.82	22.20	21.97	24.5	0.0
100	QPSK	1	271	20.99	21.38	21.23		
100	QPSK	135	0	20.70	21.00	20.84	23.5	1.0
100	QPSK	135	69	21.74	22.18	21.82	24.5	0.0
100	QPSK	135	138	20.70	21.11	20.86	23.5	1.0
100	QPSK	270	0	20.88	21.10	20.91	23.5	1.0
100	16QAM	1	1	20.26	20.58	20.41	23.5	1.0
100	64QAM	1	1	18.63	19.07	18.85	22.0	2.5
100	256QAM	1	1	16.64	16.99	16.63	20.0	4.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	120	21.58	22.01	21.92	24.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	21.58	21.98	21.87	24.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	95	21.59	22.16	21.72	24.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	21.63	22.07	21.75	24.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	67	21.72	21.97	21.74	24.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	21.72	22.08	21.80	24.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	21.63	21.93	21.88	24.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	21.07	21.94	21.69	24.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	19	21.77	21.94	21.86	24.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	12	21.78	22.03	21.75	24.5	0.0



Part270 n78 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				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	19.89			22.5	0.0
100	PI/2 BPSK	1	137	20.51				
100	PI/2 BPSK	1	271	19.91				
100	PI/2 BPSK	135	0	20.46			22.5	0.0
100	PI/2 BPSK	135	69	20.54			22.5	0.0
100	PI/2 BPSK	135	138	20.58			22.5	0.0
100	PI/2 BPSK	270	0	20.52			22.5	0.0
100	QPSK	1	1	19.92			22.5	0.0
100	QPSK	1	137	20.66				
100	QPSK	1	271	20.01				
100	QPSK	135	0	20.48			22.5	0.0
100	QPSK	135	69	20.64			22.5	0.0
100	QPSK	135	138	20.56			22.5	0.0
100	QPSK	270	0	20.56			22.5	0.0
100	16QAM	1	1	19.79			22.5	0.0
100	64QAM	1	1	19.80			22.5	0.0
100	256QAM	1	1	18.95			20.0	2.5
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	120	20.54	20.54	20.63	22.5	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	109	20.46	20.56	20.58	22.5	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	95	20.61	20.51	20.40	22.5	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	81	20.62	20.54	20.49	22.5	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	67	20.58	20.41	20.57	22.5	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	53	20.50	20.62	20.59	22.5	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	39	20.48	20.63	20.62	22.5	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	26	20.61	20.54	20.56	22.5	0.0
Channel				647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	19	20.58	20.57	20.54	22.5	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	12	20.58	20.52	20.55	22.5	0.0

Part270 n78 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				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	21.90			24.5	0.0
100	PI/2 BPSK	1	137	22.67				
100	PI/2 BPSK	1	271	21.96				
100	PI/2 BPSK	135	0	22.04			24.0	0.5
100	PI/2 BPSK	135	69	22.50			24.5	0.0
100	PI/2 BPSK	135	138	22.05			24.0	0.5
100	PI/2 BPSK	270	0	22.01			24.0	0.5
100	QPSK	1	1	21.60			24.5	0.0
100	QPSK	1	137	22.75				
100	QPSK	1	271	21.95				
100	QPSK	135	0	21.58			23.5	1.0
100	QPSK	135	69	22.88			24.5	0.0
100	QPSK	135	138	21.58			23.5	1.0
100	QPSK	270	0	21.53			23.5	1.0
100	16QAM	1	1	21.26			23.5	1.0
100	64QAM	1	1	19.86			22.0	2.5
100	256QAM	1	1	17.60			20.0	4.5
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	120	22.71	22.59	22.49	24.5	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	109	22.51	22.57	22.49	24.5	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	95	22.61	22.69	22.49	24.5	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	81	22.88	22.82	22.82	24.5	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	67	22.52	22.57	22.49	24.5	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	53	22.58	22.57	22.55	24.5	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	39	22.55	22.63	22.59	24.5	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	26	22.71	22.68	22.62	24.5	0.0
Channel				647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	19	22.49	22.86	22.88	24.5	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	12	22.57	22.80	22.55	24.5	0.0



Reduced Power Mode for Main PA EC17

n5 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				167300					
Frequency (MHz)				836.5					
25	PI/2 BPSK	1	1	22.86			24.0	0.0	
25	PI/2 BPSK	1	64	22.83					
25	PI/2 BPSK	1	131	22.77					
25	PI/2 BPSK	64	0	22.38			23.5	0.5	
25	PI/2 BPSK	64	33	22.81			24.0	0.0	
25	PI/2 BPSK	64	65	22.37			23.5	0.5	
25	PI/2 BPSK	128	0	22.37					
25	QPSK	1	1	22.92			24.0	0.0	
25	QPSK	1	64	22.84					
25	QPSK	1	131	22.75					
25	QPSK	64	0	21.89			23.0	1.0	
25	QPSK	64	33	22.87			24.0	0.0	
25	QPSK	64	65	21.83			23.0	1.0	
25	QPSK	128	0	21.84					
25	16QAM	1	1	21.74			23.0	1.0	
25	64QAM	1	1	20.04			21.5	2.5	
25	256QAM	1	1	18.71			19.5	4.5	
Channel				166800	167300	167800			
Frequency (MHz)				836.5			839		
20	QPSK	1	1	22.64	22.74	22.52	24.0	0.0	
Channel				166300	167300	168300			
Frequency (MHz)				831.5			836.5	841.5	
15	QPSK	1	1	22.69	22.84	22.62	24.0	0.0	
Channel				163800	167300	169900			
Frequency (MHz)				829			836.5	844	
10	QPSK	1	1	22.72	22.77	22.59	24.0	0.0	
Channel				165300	167300	169300			
Frequency (MHz)				826.5			836.5	846.5	
5	QPSK	1	1	22.64	22.86	22.61	24.0	0.0	

n26 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800					
Frequency (MHz)				824			831.5	839	
20	PI/2 BPSK	1	1	22.70	22.89	22.76	24.0	0.0	
20	PI/2 BPSK	1	53	22.69	22.86	22.71			
20	PI/2 BPSK	1	104	22.57	22.77	22.68			
20	PI/2 BPSK	50	0	22.38	22.56	22.48	23.5	0.5	
20	PI/2 BPSK	50	28	22.68	22.87	22.75	24.0	0.0	
20	PI/2 BPSK	50	56	22.23	22.45	22.31	23.5	0.5	
20	PI/2 BPSK	100	0	22.32	22.51	22.37			
20	QPSK	1	1	22.76	22.94	22.81	24.0	0.0	
20	QPSK	1	53	22.71	22.89	22.79			
20	QPSK	1	104	22.53	22.74	22.62			
20	QPSK	50	0	21.79	21.98	21.83	23.0	1.0	
20	QPSK	50	28	22.70	22.89	22.75	24.0	0.0	
20	QPSK	50	56	21.67	21.91	21.84	23.0	1.0	
20	QPSK	100	0	21.79	21.96	21.82			
20	16QAM	1	1	21.31	21.56	21.43	23.0	1.0	
20	64QAM	1	1	19.87	20.08	19.99	21.5	2.5	
20	256QAM	1	1	18.51	18.71	18.64	19.5	4.5	
Channel				164300					
Frequency (MHz)				821.5			831.5	841.5	
15	QPSK	1	1	22.68	22.80	22.70	24.0	0.0	
Channel				163800					
Frequency (MHz)				819			831.5	844	
10	QPSK	1	1	22.69	22.85	22.70	24.0	0.0	
Channel				163300					
Frequency (MHz)				816.5			831.5	846.5	
5	QPSK	1	1	22.71	22.81	22.89	24.0	0.0	

n7 Ant1 ECI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	18.21	18.38	18.14		
50	PI/2 BPSK	1	135	18.31	18.45	18.17	19.5	0.0
50	PI/2 BPSK	1	268	18.32	18.46	18.19		
50	PI/2 BPSK	135	0	18.19	18.37	18.12	19.5	0.0
50	PI/2 BPSK	135	68	18.22	18.51	18.21	19.5	0.0
50	PI/2 BPSK	135	135	18.20	18.29	18.13		
50	PI/2 BPSK	270	0	18.33	18.35	18.31	19.5	0.0
50	QPSK	1	1	18.27	18.52	18.32		
50	QPSK	1	135	18.42	18.46	18.49	19.5	0.0
50	QPSK	1	268	18.18	18.48	18.18		
50	QPSK	135	0	18.41	18.30	18.39	19.5	0.0
50	QPSK	135	68	18.33	18.42	18.18	19.5	0.0
50	QPSK	135	135	18.40	18.34	18.12	19.5	0.0
50	QPSK	270	0	18.38	18.39	18.34		
50	16QAM	1	1	18.21	18.48	18.27	19.5	0.0
50	64QAM	1	1	18.29	18.27	18.15	19.5	0.0
50	256QAM	1	1	18.40	18.28	18.24	19.5	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	18.21	18.38	18.22	19.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	18.14	18.42	18.17	19.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	18.16	18.34	18.25	19.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	18.22	18.32	18.28	19.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	18.20	18.30	18.14	19.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	18.27	18.38	18.18	19.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	18.13	18.47	18.12	19.5	0.0



Part270 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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	20.71	20.67	20.76			
100	PI/2 BPSK	1	137	19.19	19.82	19.77	22.5	0.0	
100	PI/2 BPSK	1	271	19.76	19.88	19.77			
100	PI/2 BPSK	135	0	20.49	20.46	20.30	22.5	0.0	
100	PI/2 BPSK	135	69	20.69	20.72	20.50	22.5	0.0	
100	PI/2 BPSK	135	138	20.39	20.34	20.33	22.5	0.0	
100	PI/2 BPSK	270	0	20.35	20.26	20.20			
100	QPSK	1	1	19.46	20.01	19.85			
100	QPSK	1	137	20.83	20.85	20.81	22.5	0.0	
100	QPSK	1	271	19.90	19.97	19.93			
100	QPSK	135	0	20.53	20.59	20.55	22.5	0.0	
100	QPSK	135	69	20.75	20.78	20.70	22.5	0.0	
100	QPSK	135	138	20.54	20.59	20.57	22.5	0.0	
100	QPSK	270	0	20.49	20.53	20.47	22.5	0.0	
100	16QAM	1	1	20.58	20.56	20.68	22.5	0.0	
100	64QAM	1	1	20.46	20.57	20.72	22.5	0.0	
100	256QAM	1	1	20.55	20.47	20.68	22.5	0.0	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	120	20.47	20.50	20.52	22.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	20.60	20.46	20.73	22.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	20.63	20.51	20.65	22.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	20.49	20.47	20.57	22.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	20.62	20.58	20.66	22.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	20.46	20.60	20.67	22.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	39	20.57	20.63	20.50	22.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	20.59	20.45	20.66	22.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	20.65	20.56	20.51	22.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	20.60	20.58	20.72	22.5	0.0	

Part270 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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	20.10	20.57	20.11			
100	PI/2 BPSK	1	137	21.06	21.55	21.12	23.5	0.0	
100	PI/2 BPSK	1	271	19.72	20.15	19.76			
100	PI/2 BPSK	135	0	20.52	20.97	20.54	22.5	1.0	
100	PI/2 BPSK	135	69	20.90	21.48	21.20	23.5	0.0	
100	PI/2 BPSK	135	138	20.53	21.08	20.60	22.5	1.0	
100	PI/2 BPSK	270	0	20.56	20.95	20.59			
100	QPSK	1	1	20.04	20.58	20.22			
100	QPSK	1	137	21.35	21.75	21.39	23.5	0.0	
100	QPSK	1	271	19.21	19.78	19.32			
100	QPSK	135	0	19.81	20.41	19.96	22.5	1.0	
100	QPSK	135	69	21.00	21.62	21.20	23.5	0.0	
100	QPSK	135	138	20.05	20.51	20.19	22.5	1.0	
100	QPSK	270	0	19.91	20.59	19.96			
100	16QAM	1	1	19.17	19.76	19.41	21.5	2.0	
100	64QAM	1	1	17.79	18.29	17.99	20.0	3.5	
100	256QAM	1	1	15.92	16.26	16.01	18.0	5.5	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	120	21.10	21.54	21.21	23.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	21.19	21.69	21.22	23.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	21.17	21.66	21.27	23.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	21.08	21.56	21.25	23.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	21.23	21.84	21.21	23.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	21.24	21.62	21.25	23.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	39	21.22	21.70	21.18	23.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	21.09	21.54	21.26	23.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	21.26	21.83	21.14	23.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	21.10	21.70	21.25	23.5	0.0	



Part270 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									
Frequency (MHz)									
100	Pi/2 BPSK	1	1	20.45	21.08	21.10	22.5	0.0	
100	Pi/2 BPSK	1	137	20.68	20.96	21.03	22.0	0.5	
100	Pi/2 BPSK	135	0	21.03	21.26	21.26	22.5	0.0	
100	Pi/2 BPSK	135	69	21.03	21.26	21.26	22.5	0.0	
100	Pi/2 BPSK	135	138	21.03	21.26	21.26	22.0	0.5	
100	Pi/2 BPSK	270	0	21.10	20.33	21.50	22.5	0.0	
100	QPSK	1	1	20.77	20.97	21.17	22.0	0.5	
100	QPSK	1	137	20.77	20.97	21.17	22.5	0.0	
100	QPSK	1	271	20.77	20.97	21.17	22.0	0.5	
100	QPSK	135	0	20.77	20.97	21.17	22.0	0.5	
100	QPSK	135	69	20.77	20.97	21.17	22.5	0.0	
100	QPSK	135	138	20.77	20.97	21.17	22.0	0.5	
100	QPSK	270	0	20.77	20.97	21.17	22.0	0.5	
100	16QAM	1	1	20.07	20.14	20.14	21.0	1.5	
100	64QAM	1	1	19.25	20.25	20.25	21.0	1.5	
100	256QAM	1	1	19.25	20.25	20.25	20.5	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	120	21.26	21.31	21.27	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.06	21.19	21.22	22.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	21.20	21.26	21.19	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.19	21.16	21.17	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.22	21.18	21.14	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.09	21.15	21.06	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	21.03	21.15	21.13	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.08	21.28	21.15	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	21.03	21.28	21.18	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	21.04	21.23	21.01	22.5	0.0	

Part270 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									
Frequency (MHz)									
100	Pi/2 BPSK	1	1	21.36	22.07	21.83	23.5	0.0	
100	Pi/2 BPSK	1	137	21.42	21.90	21.83	22.5	1.0	
100	Pi/2 BPSK	135	0	21.90	21.80	21.80	23.5	0.0	
100	Pi/2 BPSK	135	69	21.90	21.80	21.80	22.5	1.0	
100	Pi/2 BPSK	135	138	21.90	21.80	21.80	22.5	1.0	
100	Pi/2 BPSK	270	0	21.46	21.12	22.15	23.5	0.0	
100	QPSK	1	1	20.91	20.91	21.07	22.5	1.0	
100	QPSK	1	137	20.91	20.91	21.07	23.5	0.0	
100	QPSK	1	271	20.91	20.91	21.07	22.5	1.0	
100	QPSK	135	0	20.91	20.91	21.07	22.0	1.5	
100	QPSK	135	69	20.91	20.91	21.07	22.5	1.0	
100	QPSK	135	138	20.91	20.91	21.07	22.0	1.5	
100	QPSK	270	0	20.95	20.95	21.07	20.5	3.0	
100	16QAM	1	1	20.64	20.64	20.64	18.5	5.0	
100	64QAM	1	1	19.00	19.00	19.00	18.5	5.0	
100	256QAM	1	1	17.06	17.06	17.06	18.5	5.0	
Channel									
Frequency (MHz)									
90	QPSK	1	120	21.84	22.05	22.02	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.68	21.67	21.79	23.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	21.88	21.85	21.83	23.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.84	21.81	21.79	23.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.67	21.80	21.92	23.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.85	21.83	21.80	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	21.71	21.84	21.84	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.84	21.91	21.99	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	21.75	22.00	21.75	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	21.69	21.80	21.85	23.5	0.0	



Part270 n77 Main PA Ant2 PC2&PC3 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	14.66	14.92	14.62	16.5	0.0	
100	PI/2 BPSK	1	137	14.69	14.74	14.54			
100	PI/2 BPSK	1	271	14.69	14.81	14.55	16.5	0.0	
100	PI/2 BPSK	135	0	14.62	14.92	14.74	16.5	0.0	
100	PI/2 BPSK	135	69	14.60	14.91	14.62	16.5	0.0	
100	PI/2 BPSK	135	138	14.72	14.80	14.57	16.5	0.0	
100	PI/2 BPSK	270	0	14.53	14.87	14.58			
100	QPSK	1	1	14.85	14.53	14.57	16.5	0.0	
100	QPSK	1	137	14.91	14.95	14.92			
100	QPSK	1	271	14.43	14.51	14.46	14.5	2.0	
100	QPSK	135	0	14.89	14.90	14.87	16.5	0.0	
100	QPSK	135	69	14.60	14.91	14.74	16.5	0.0	
100	QPSK	135	138	14.52	14.87	14.67			
100	QPSK	270	0	14.79	14.86	14.82	16.5	0.0	
100	16QAM	1	1	14.53	14.91	14.56	16.5	0.0	
100	64QAM	1	1	14.54	14.86	14.68	16.5	0.0	
100	256QAM	1	1	14.64	14.81	14.77	16.5	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	120	14.77	14.90	14.80	16.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	14.82	14.93	14.83	16.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	14.98	14.92	14.75	16.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	14.81	14.81	14.92	16.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	14.94	14.86	14.77	16.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	14.73	14.87	14.86	16.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	39	14.80	14.87	14.83	16.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	14.72	14.93	14.82	16.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	14.79	15.00	14.79	16.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	14.91	14.85	14.92	16.5	0.0	

Part270 n78 Main PA Ant2 PC2&PC3 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	14.48					
100	PI/2 BPSK	1	137	14.42			16.5	0.0	
100	PI/2 BPSK	1	271	14.61					
100	PI/2 BPSK	135	0	14.48			16.5	0.0	
100	PI/2 BPSK	135	69	14.37			16.5	0.0	
100	PI/2 BPSK	135	138	14.55			16.5	0.0	
100	PI/2 BPSK	270	0	14.53					
100	QPSK	1	1	14.23					
100	QPSK	1	137	14.65			16.5	0.0	
100	QPSK	1	271	14.20					
100	QPSK	135	0	14.59			16.5	0.0	
100	QPSK	135	69	14.61			16.5	0.0	
100	QPSK	135	138	14.80					
100	QPSK	270	0	14.57			16.5	0.0	
100	16QAM	1	1	14.60			16.5	0.0	
100	64QAM	1	1	14.37			16.5	0.0	
100	256QAM	1	1	14.49			16.5	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	120	14.33	14.38	14.36	16.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	14.32	14.43	14.48	16.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	14.42	14.24	14.42	16.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	14.35	14.31	14.52	16.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	14.38	14.34	14.51	16.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	14.36	14.36	14.47	16.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	14.37	14.36	14.49	16.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	14.41	14.35	14.37	16.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	14.52	14.38	14.43	16.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	14.45	14.28	14.42	16.5	0.0	



n38 Main PA Ant4 ECI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PV2 BPSK	1	1	11.40	11.33	11.26		
40	PV2 BPSK	1	53	11.29	11.35	11.29	12.5	0.0
40	PV2 BPSK	1	104	11.24	11.42	11.25		
40	PV2 BPSK	50	0	11.39	11.45	11.36	12.5	0.0
40	PV2 BPSK	50	28	11.23	11.50	11.39	12.5	0.0
40	PV2 BPSK	50	56	11.26	11.39	11.34		
40	PV2 BPSK	100	0	11.19	11.34	11.15	12.5	0.0
40	QPSK	1	1	11.48	11.53	11.46		
40	QPSK	1	53	11.36	11.34	11.30	12.5	0.0
40	QPSK	1	104	11.33	11.36	11.29		
40	QPSK	50	0	11.44	11.36	11.47	12.5	0.0
40	QPSK	50	28	11.34	11.49	11.34	12.5	0.0
40	QPSK	50	56	11.22	11.48	11.31		
40	QPSK	100	0	11.38	11.43	11.36	12.5	0.0
40	16QAM	1	1	11.39	11.38	11.21	12.5	0.0
40	64QAM	1	1	11.31	11.44	11.16	12.5	0.0
40	256QAM	1	1	11.42	11.46	11.25	12.5	0.0
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	11.31	11.48	11.46	12.5	0.0
Channel				516504	519000	521496		
Frequency (MHz)				2582.52	2595	2607.48		
25	QPSK	1	1	11.47	11.41	11.42	12.5	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	11.48	11.39	11.36	12.5	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	11.43	11.43	11.38	12.5	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	11.40	11.51	11.42	12.5	0.0

n41 Main PA Ant4 ECI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PV2 BPSK	1	1	11.21	11.49	11.23		
100	PV2 BPSK	1	137	11.24	11.33	11.19	12.5	0.0
100	PV2 BPSK	1	271	11.39	11.34	11.16		
100	PV2 BPSK	135	0	11.26	11.42	11.33	12.5	0.0
100	PV2 BPSK	135	69	11.24	11.45	11.26	12.5	0.0
100	PV2 BPSK	135	138	11.21	11.53	11.29		
100	PV2 BPSK	270	0	11.30	11.53	11.24	12.5	0.0
100	QPSK	1	1	11.51	11.54	11.48		
100	QPSK	1	137	11.27	11.38	11.19	12.5	0.0
100	QPSK	1	271	11.22	11.48	11.30		
100	QPSK	135	0	11.49	11.36	11.46	12.5	0.0
100	QPSK	135	69	11.38	11.51	11.36	12.5	0.0
100	QPSK	135	138	11.41	11.42	11.21		
100	QPSK	270	0	11.42	11.47	11.45	12.5	0.0
100	16QAM	1	1	11.31	11.42	11.36	12.5	0.0
100	64QAM	1	1	11.25	11.51	11.27	12.5	0.0
100	256QAM	1	1	11.27	11.35	11.35	12.5	0.0
Channel				508200	518598	528096		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	11.46	11.53	11.37	12.5	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	11.34	11.40	11.51	12.5	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	11.53	11.40	11.47	12.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	11.42	11.44	11.34	12.5	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	11.47	11.54	11.42	12.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	11.35	11.45	11.32	12.5	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	11.32	11.40	11.40	12.5	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	11.49	11.52	11.52	12.5	0.0
Channel				500100	518598	536996		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	11.48	11.47	11.45	12.5	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	11.51	11.37	11.34	12.5	0.0



Part270 n77 Main PA Ant5 PC2&PC3 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	12.27	12.47	12.28			
100	PI/2 BPSK	1	137	12.25	12.40	12.28	14.0	0.0	
100	PI/2 BPSK	1	271	12.29	12.39	12.16			
100	PI/2 BPSK	135	0	12.17	12.37	12.18	14.0	0.0	
100	PI/2 BPSK	135	69	12.15	12.30	12.24	14.0	0.0	
100	PI/2 BPSK	135	138	12.32	12.25	12.29	14.0	0.0	
100	PI/2 BPSK	270	0	12.23	12.31	12.21			
100	QPSK	1	1	12.28	12.40	12.36			
100	QPSK	1	137	12.45	12.51	12.47	14.0	0.0	
100	QPSK	1	271	12.24	12.36	12.18			
100	QPSK	135	0	12.15	12.35	12.33	14.0	0.0	
100	QPSK	135	69	12.43	12.45	12.41	14.0	0.0	
100	QPSK	135	138	12.18	12.36	12.18	14.0	0.0	
100	QPSK	270	0	12.38	12.41	12.34	14.0	0.0	
100	16QAM	1	1	12.15	12.29	12.12	14.0	0.0	
100	64QAM	1	1	12.29	12.48	12.29	10.0	4.0	
100	256QAM	1	1	12.21	12.37	12.18	8.0	6.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	120	12.35	12.39	12.41	14.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	12.26	12.41	12.27	14.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	12.34	12.49	12.28	14.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	12.24	12.43	12.26	14.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	12.40	12.38	12.44	14.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	12.33	12.44	12.24	14.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	39	12.38	12.31	12.34	14.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	12.21	12.41	12.24	14.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	12.32	12.49	12.32	14.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	12.39	12.34	12.23	14.0	0.0	

Part270 n78 Main PA Ant5 PC2&PC3 ECI7									
BW [MHz]	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					
100	PI/2 BPSK	1	1	12.50					
100	PI/2 BPSK	1	137	12.54			14.0	0.0	
100	PI/2 BPSK	1	271	12.53					
100	PI/2 BPSK	135	0	12.47			14.0	0.0	
100	PI/2 BPSK	135	69	12.45			14.0	0.0	
100	PI/2 BPSK	135	138	12.46			14.0	0.0	
100	PI/2 BPSK	270	0	12.40					
100	QPSK	1	1	12.08					
100	QPSK	1	137	12.51			14.0	0.0	
100	QPSK	1	271	12.11					
100	QPSK	135	0	12.47			14.0	0.0	
100	QPSK	135	69	12.59			14.0	0.0	
100	QPSK	135	138	12.48			14.0	0.0	
100	QPSK	270	0	12.53			14.0	0.0	
100	16QAM	1	1	12.58			14.0	0.0	
100	64QAM	1	1	12.80			14.0	0.0	
100	256QAM	1	1	12.49			14.0	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	120	12.42	12.46	12.27	14.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	12.55	12.31	12.30	14.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	12.48	12.25	12.29	14.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	12.57	12.38	12.37	14.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	12.36	12.28	12.16	14.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	12.44	12.40	12.25	14.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	12.54	12.46	12.33	14.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	12.51	12.28	12.19	14.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	12.44	12.45	12.32	14.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	12.43	12.45	12.18	14.0	0.0	



Part270 n77 Main PA Ant7 PC2&PC3 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	14.80	15.05	14.93	16.5	0.0	
100	PI/2 BPSK	1	137	15.90	16.22	16.00			
100	PI/2 BPSK	1	271	15.05	15.53	15.38			
100	PI/2 BPSK	135	0	14.78	14.98	14.68	16.5	0.0	
100	PI/2 BPSK	135	69	15.83	16.26	15.79	16.5	0.0	
100	PI/2 BPSK	135	138	14.83	15.35	14.82	16.5	0.0	
100	PI/2 BPSK	270	0	14.88	15.18	14.96			
100	QPSK	1	1	15.04	15.32	15.02	16.5	0.0	
100	QPSK	1	137	16.06	16.39	16.12			
100	QPSK	1	271	15.08	15.62	15.46			
100	QPSK	135	0	14.98	15.10	14.92	16.5	0.0	
100	QPSK	135	69	15.98	16.35	16.00	16.5	0.0	
100	QPSK	135	138	14.79	15.37	15.03	16.5	0.0	
100	QPSK	270	0	14.94	15.32	15.03	16.5	0.0	
100	16QAM	1	1	15.81	16.22	15.72	16.5	0.0	
100	64QAM	1	1	15.67	16.30	15.72	16.5	0.0	
100	256QAM	1	1	15.71	16.11	16.01	16.5	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	120	15.95	16.30	16.02	16.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	109	16.01	16.26	16.08	16.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	95	16.03	16.27	16.05	16.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	81	16.01	16.33	15.99	16.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	67	16.01	16.25	16.08	16.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	15.96	16.27	16.04	16.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	39	16.00	16.31	16.09	16.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	26	15.98	16.36	16.02	16.5	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	19	16.00	16.26	16.04	16.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	12	15.97	16.34	16.05	16.5	0.0	

Part270 n78 Main PA Ant7 PC2&PC3 ECI7									
BW [MHz]	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					
100	PI/2 BPSK	1	1	14.99			16.5	0.0	
100	PI/2 BPSK	1	137	16.20		16.20			
100	PI/2 BPSK	1	271	15.34					
100	PI/2 BPSK	135	0	14.69			16.5	0.0	
100	PI/2 BPSK	135	69	16.04			16.5	0.0	
100	PI/2 BPSK	135	138	15.17			16.5	0.0	
100	PI/2 BPSK	270	0	15.10					
100	QPSK	1	1	15.18			16.5	0.0	
100	QPSK	1	137	16.23		16.23			
100	QPSK	1	271	15.32					
100	QPSK	135	0	15.03			16.5	0.0	
100	QPSK	135	69	15.21			16.5	0.0	
100	QPSK	135	138	15.19			16.5	0.0	
100	QPSK	270	0	15.13			16.5	0.0	
100	16QAM	1	1	16.03			16.5	0.0	
100	64QAM	1	1	16.09			16.5	0.0	
100	256QAM	1	1	15.90			16.5	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	120	15.92	16.15	15.00	16.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	16.00	16.16	14.96	16.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	15.93	16.20	15.00	16.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	15.98	16.13	14.97	16.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	15.89	16.13	14.91	16.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	15.90	16.20	14.99	16.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	15.93	16.18	14.93	16.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	15.95	16.18	14.95	16.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	19	15.98	16.11	14.91	16.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	15.94	16.11	14.95	16.5	0.0	



Uplink CA Power

CA_7C Ant1 Default&EC12								
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	22.75	24.00
21100	21298	QPSK	1	99	1	0	22.81	24.00
21350	21152	QPSK	1	0	1	99	22.62	24.00

CA_38C Ant4 Default								
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		
37650	38048	QPSK	1	99	1	0	22.49	24.00
37901	38099	QPSK	1	99	1	0	22.62	24.00
38150	37952	QPSK	1	0	1	99	22.53	24.00



Uplink CA Power

CA_7C Ant1 EC13								
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	17.88	19.00
21100	21298	QPSK	1	99	1	0	18.01	19.00
21350	21152	QPSK	1	0	1	99	17.75	19.00

CA_38C Ant4 EC12								
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	14.75	16.00
37901	38099	QPSK	1	99	1	0	14.88	16.00
38150	37952	QPSK	1	0	1	99	14.69	16.00

CA_7C Ant1 EC16								
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	18.62	20.00
21100	21298	QPSK	1	99	1	0	18.81	20.00
21350	21152	QPSK	1	0	1	99	18.72	20.00

CA_38C Ant4 EC13								
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	15.62	17.00
37901	38099	QPSK	1	99	1	0	15.77	17.00
38150	37952	QPSK	1	0	1	99	15.58	17.00



CA_7C Ant1 ECI7								
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	17.88	19.00
21100	21298	QPSK	1	99	1	0	18.01	19.00
21350	21152	QPSK	1	0	1	99	17.75	19.00

CA_38C Ant4 ECI6								
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	20.35	21.50
37901	38099	QPSK	1	99	1	0	20.41	21.50
38150	37952	QPSK	1	0	1	99	20.32	21.50

CA_38C Ant4 ECI7								
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	11.62	13.00
37901	38099	QPSK	1	99	1	0	11.79	13.00
38150	37952	QPSK	1	0	1	99	11.55	13.00

Conducted Power for DL CA

2CA DL

CA List	PCC									SCC					Power	
	LTE	BW	BW	UL	UL	UL#	UL	DL Antenna	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB		Offset	Band	(MHz)	Freq. (MHz)		Channel	Tx. Power (dBm)
CA_5A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4X4MIMO	22.89	22.95
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4X4MIMO	Band 5	10M	861.5	2525		22.96	23.04
CA_7A-7A	Band 7	Ant1	20M	2535	21100	QPSK	1	0		Band 7	5M	2687.5	3425	4X4MIMO	22.88	23.04
	CA_7B	Band 7	Ant1	15M	2535	21100	QPSK	1	0	4X4MIMO	Band 7	5M	2544.3	3193	4X4MIMO	22.97
CA_7C	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4X4MIMO	Band 7	20M	2554.8	3298	4X4MIMO	22.95	23.04
CA_38C	Band 38	Ant4	20M	2580	37850	QPSK	1	0	4X4MIMO	Band 38	20M	2599.8	38048	4X4MIMO	22.80	22.89

3CA DL

3CA List	PCC								SCC1					SCC2				Power			
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna	LTE	BW	DL	DL	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA
	Band	Ant	(MHz)	Freq	Channel		RB	RB	Configuration	Band	(MHz)	Freq	Channel	Configuration	Band	(MHz)	Freq	Channel	Configuration	Tx. Power	Tx. Power
			(MHz)				Offset				(MHz)	(MHz)				(MHz)	(MHz)			(dBm)	(dBm)
CA_41A-41A-41A	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4X4MIMO	Band 41	5M	2887.5	41565	4X4MIMO	Band 41	20M	2506	39750	4X4MIMO	23.06	23.15
CA_41A-41C	Band 41	Ant4	20M	2675.8	39750	QPSK	1	0	4X4MIMO	Band 41	20M	2660.2	41292	4X4MIMO	Band 41	20M	2680	41490	4X4MIMO	23.10	23.15
CA_41D	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4X4MIMO	Band 41	20M	2612.8	40618	4X4MIMO	Band 41	20M	2632.6	41016	4X4MIMO	22.97	23.15



Conducted Power for WLAN/Bluetooth

<2.4GHz WLAN>

Ant5		RF Full power Standalone for Extremity				Standalone for Head		Non DBS for Extremity		Non DBS for Head		Standalone for Hotspot		Non DBS for Body-worn		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
2.4GHz WLAN	802.11b 1Mbps	1	2412	18.81	20.50	15.87	17.50	16.85	18.50	11.31	13.00	13.75	15.50	100%		
		6	2437	18.89	20.50	16.94	17.50	16.92	18.50	11.69	13.00	13.86	15.50			
		11	2462	19.16	20.50	17.26	17.50	17.21	18.50	11.47	13.00	14.14	15.50			
	802.11g 6Mbps	1	2412	15.12	15.50	15.12	15.50	15.12	15.50	13.00	13.00	13.00	15.50		100%	
		6	2437	18.51	20.00	16.93	17.50	16.47	18.00	13.00	13.00	13.00	15.50			
		11	2462	16.02	17.50	15.43	17.00	16.02	17.50	13.00	13.00	13.00	15.50			
802.11n-HT20 MCS0	2	2417	17.43	19.00	15.50	17.00	16.58	18.00	Not request	13.00	Not request	13.00	15.50	100%		
	6	2437	18.66	20.00	17.50	17.50	16.71	18.50	13.00	13.00	13.00	15.50				
	11	2462	16.11	17.50	15.00	17.00	16.11	17.50	13.00	13.00	13.00	15.50				
2	2417	16.36	18.00	17.00	17.00	16.36	18.00	13.00	13.00	13.00	15.50	15.50				

<5.2GHz WLAN>

Ant5		RF Full power Standalone for Extremity				Standalone for Head/Hotspot		Non DBS for Head		Non DBS for Extremity		Standalone for Body-worn		Non DBS for Body-worn		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
5.2GHz WLAN	802.11a 6Mbps	36	5180	17.66	19.50	15.00	15.00	12.00	12.00	17.00	16.57	18.50	14.00	100%		
		40	5200	17.01	19.50	15.00	15.00	12.00	12.00	17.00	16.86	19.50	14.00			
		44	5220	17.96	19.50	15.00	15.00	12.00	12.00	17.00	17.02	19.50	14.00			
		48	5240	17.93	19.50	15.00	15.00	12.00	12.00	17.00	16.98	19.50	14.00			
	802.11n-HT20 MCS0	36	5180	17.56	19.00	15.00	15.00	12.00	12.00	17.00	17.00	18.50	14.00	100%		
		40	5200	17.87	19.00	15.00	15.00	12.00	12.00	17.00	17.00	19.50	14.00			
		44	5220	17.79	19.00	15.00	15.00	12.00	12.00	17.00	17.00	18.50	14.00			
		48	5240	17.82	19.00	15.00	15.00	12.00	12.00	17.00	17.00	18.50	14.00			
	802.11n-HT40 MCS0	38	5190	15.71	17.00	15.00	15.00	12.00	15.71	17.00	17.00	17.00	14.00	100%		
		42	5230	15.72	17.00	15.00	15.00	12.00	15.72	17.00	17.00	17.00	14.00			
		36	5180	17.51	19.00	15.00	15.00	12.00	12.00	17.00	17.00	18.50	14.00			
		40	5200	17.74	19.00	15.00	15.00	12.00	12.00	17.00	17.00	18.50	14.00			
802.11ac-VHT20 MCS0	44	5220	17.83	19.00	15.00	15.00	12.00	12.00	17.00	17.00	18.50	14.00	100%			
	48	5240	17.88	19.00	15.00	15.00	12.00	12.00	17.00	17.00	18.50	14.00				
	38	5190	15.73	17.00	15.00	15.00	12.00	12.00	17.00	17.00	17.00	14.00				
	46	5230	15.77	17.00	15.00	15.00	12.00	12.00	17.00	17.00	17.00	14.00				
802.11ac-VHT40 MCS0	42	5210	13.89	15.50	13.41	15.00	10.38	12.00	15.50	15.50	12.47	14.00	100%			

<5.3GHz WLAN>

Ant5		RF Full power Standalone for Extremity				Standalone for Head		Non DBS for Head		Non DBS for Extremity		Standalone for Body-worn		Non DBS for Body-worn		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
5.3GHz WLAN	802.11a 6Mbps	52	5260	18.39	20.00	16.00	16.00	13.00	13.00	16.50	17.32	19.00	15.00	100%		
		56	5280	18.51	20.00	16.00	16.00	13.00	13.00	16.50	17.46	19.00	15.00			
		60	5300	18.45	20.00	16.00	16.00	13.00	13.00	16.50	17.38	19.00	15.00			
		64	5320	17.37	19.00	16.00	16.00	13.00	13.00	16.50	17.37	19.00	15.00			
	802.11n-HT20 MCS0	52	5260	18.26	19.50	16.00	16.00	13.00	13.00	16.50	17.00	19.00	15.00	100%		
		56	5280	17.89	19.50	16.00	16.00	13.00	13.00	16.50	17.00	19.00	15.00			
		60	5300	18.37	19.50	16.00	16.00	13.00	13.00	16.50	17.00	19.00	15.00			
		64	5320	16.68	18.50	16.00	16.00	13.00	13.00	16.50	17.37	19.00	15.00			
	802.11n-HT40 MCS0	54	5270	16.23	17.50	16.00	16.00	13.00	16.23	17.50	17.50	17.50	14.00	100%		
		42	5210	15.18	18.50	16.00	16.00	13.00	15.18	16.50	16.50	16.50	15.00			
		52	5260	18.31	20.00	16.00	16.00	13.00	13.00	16.50	Not request	19.00	15.00			
		56	5280	18.34	20.00	16.00	16.00	13.00	13.00	16.50	16.50	19.00	15.00			
802.11ac-VHT20 MCS0	60	5300	18.41	20.00	16.00	16.00	13.00	13.00	16.50	17.00	19.00	15.00	100%			
	64	5320	18.16	19.00	16.00	16.00	13.00	13.00	16.50	17.00	19.00	15.00				
	54	5270	16.29	17.50	16.00	16.00	13.00	13.00	16.50	17.50	17.50	15.00				
	62	5310	15.26	16.50	16.00	16.00	13.00	13.00	16.50	16.50	15.00	15.00				
802.11ac-VHT80 MCS0	58	5290	14.72	16.50	14.27	16.00	11.22	13.00	16.50	16.50	13.35	15.00	100%			

<5.5GHz WLAN>

Ant5		RF Full power Standalone for Extremity				Standalone for Head		Non DBS for Head		Non DBS for Extremity		Standalone for Body-worn		Non DBS for Body-worn		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
5.5GHz WLAN	802.11a 6Mbps	100	5550	17.63	19.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00	100%			
		116	5580	17.61	19.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00				
		124	5620	17.62	19.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00				
		132	5660	17.56	19.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00				
		140	5700	15.55	17.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00				
		144	5720	17.38	19.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00				
	802.11n-HT20 MCS0	100	5550	17.40	19.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00	100%			
		116	5580	17.27	19.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00				
		124	5620	17.44	19.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00				
		132	5660	17.37	19.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00				
		140	5700	14.45	16.00	16.00	16.00	13.50	13.50	15.50	14.00	10.00				
		144	5720	17.35	19.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00				
	802.11n-HT40 MCS0	102	5510	15.33	17.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00	100%			
		110	5550	15.37	17.00	15.37	17.00	13.50	13.50	15.50	14.00	10.00				
		126	5630	15.34	17.00	15.34	17.00	13.50	13.50	15.50	14.00	10.00				
		134	5670	15.37	17.00	15.37	17.00	13.50	13.50	15.50	14.00	10.00				
		142	5710	15.43	17.00	15.43	17.00	13.50	13.50	15.50	14.00	10.00				
		100	5550	17.46	19.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00				
	802.11ac-VHT20 MCS0	116	5580	17.32	19.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00	100%			
		124	5620	17.48	19.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00				
		132	5660	17.43	19.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00				
		140	5700	14.81	16.00	16.00	16.00	13.50	13.50	15.50	14.00	10.00				
		144	5720	17.38	19.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00				
		102	5510	15.41	17.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00				
802.11ac-VHT40 MCS0	110	5550	15.43	17.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00	100%				
	126	5630	15.38	17.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00					
	134	5670	15.41	17.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00					
	142	5710	15.48	17.00	17.00	17.00	13.50	13.50	15.50	14.00	10.00					
	106	5530	14.05	15.50	15.50	12.00	13.50	14.05	15.50	12.51	14.00		8.52	10.00		
	152	5610	14.28	15.50	15.50	12.27	13.50	14.28	15.50	12.72	14.00		8.71	10.00		
802.11ac-VHT80 MCS0	138	5690	14.52	15.50	15.50	12.20	13.50	14.23	15.50	12.56	14.00	8.73	10.00			

<5.8GHz WLAN>

Ant5		RF Full power Standalone for Head				Non DBS for Head		Standalone for Hotspot		Non DBS for Extremity		Standalone for Body-worn		Non DBS for Body-worn		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)													

BT BR/EDR			Full		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	14.67	12.84	12.76
	CH 39	2441	14.64	12.68	12.57
	CH 78	2480	14.22	12.36	12.30
Tune-up Limit			15.5	14	14

BLE 1M			Full		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
LE	CH 00	2402	1.47		
	CH 19	2440	2.48		
	CH 39	2480	0.96		
Tune-up Limit			2.5		

BLE 1M			Full		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
LE	CH 00	2402	1.59		
	CH 19	2440	2.81		
	CH 39	2480	1.04		
Tune-up Limit			3		