



Full&Default Power Mode

GSM/DC Ant 0		Burst Average Power (dBm)			Tune-up		Frame Average Power (dBm)			Tune-up	
TX Channel	Limit	Low	Mid	High	Limit	Low	Mid	High	Limit	High	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		824.2	848.8	
GPRS 4 Tx slots	27.25	27.32	27.29		29.00	24.25	24.32	24.29		26.00	

GSM 1800 Ant 0		Burst Average Power (dBm)			Tune-up		Frame Average Power (dBm)			Tune-up	
TX Channel	Limit	Low	Mid	High	Limit	Low	Mid	High	Limit	High	
Frequency (MHz)	1852.2	1860	1868	1876.5		1852.2	1860	1868	1876.5	1890	
GPRS 4 Tx slots	23.82	23.87	23.85	23.85	25.00	20.62	20.87	20.85		22.00	

Band		WCDMA II Ant 0			Tune-up		WCDMA IV Ant 0			Tune-up		WCDMA V Ant 0			Tune-up	
TX Channel	Limit	Low	Mid	High	Limit	Low	Mid	High	Limit	Low	Mid	High	Limit	Low	Mid	High
Frequency (MHz)	1852.4	1860	1868	1876.5		1932	1938	1948		4132	4162	4233		4307	4307	4406
3GPP Rel 99	RW-12-kbps	22.01	22.10	22.08	23.00	22.01	22.15	22.13	23.00	24.18	24.22	24.17	25.00			

Band 2 Ant 0										
BW (MHz)	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)	QPSK	1	0	18700	18800	19100	1910	24	0	

Band 4 Ant 0										
BW (MHz)	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)	QPSK	1	0	20060	20175	20300	1940	24	0	

Band 66 Ant 0										
BW (MHz)	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)	QPSK	1	0	132072	132322	132572	1770	24	0	

Band 7 Ant 0										
BW (MHz)	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)	QPSK	1	0	20860	21100	21350	2060	25	0	

Band 38 Ant 0										
BW (MHz)	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)	QPSK	1	0	27800	28000	28150	2810	25	0	

Band 41 Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Low Middle Ch. Freq.	Power Middle Ch. Freq.	Power High Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel												
Frequency (MHz)	QPSK	1	0	2500	2449.5	2593	2638.5	2680	23	0		

Band 41 HPUE Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Low Middle Ch. Freq.	Power Middle Ch. Freq.	Power High Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel												
Frequency (MHz)	QPSK	1	0	39700	40185	40620	41005	41490	28	0		



Band 5 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq	Power Mid Ch./Freq	Power Low Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.97	22.97	22.97	24	0		
10	QPSK	1	25	22.92	23.03	22.90	24	0		
10	QPSK	1	49	23.02	23.09	22.87	24	0		
10	QPSK	25	0	21.99	22.01	21.95	23	1		
10	QPSK	25	25	21.84	21.96	21.83	23	1		
10	QPSK	25	25	21.94	21.97	21.95	23	1		
10	QPSK	50	0	21.95	21.99	21.92	23	1		
10	16QAM	1	0	21.90	22.01	21.91	23	1		
10	16QAM	1	25	20.76	20.95	20.67	22	2		
10	16QAM	1	49	21.87	21.88	21.79	23	1		
10	16QAM	25	0	21.03	21.03	20.94	22	2		
10	16QAM	25	12	20.86	20.97	20.85	22	2		
10	16QAM	25	25	20.91	21.02	20.84	22	2		
10	16QAM	50	0	20.87	21.08	20.98	22	2		
10	64QAM	1	0	20.83	21.03	20.79	21	3		
10	64QAM	1	25	20.76	20.86	20.67	21	3		
10	64QAM	1	49	20.79	20.84	20.77	21	3		
10	64QAM	25	0	19.93	19.99	20.00	19	5		
10	64QAM	25	12	19.93	19.97	19.94	19	5		
10	64QAM	25	25	19.85	19.97	19.80	19	5		
10	64QAM	50	0	19.99	20.01	19.95	19	5		
10	256QAM	1	0	17.92	18.00	17.98	19	5		
10	256QAM	1	25	17.86	17.97	17.91	19	5		
10	256QAM	1	49	17.87	17.97	17.89	19	5		
10	256QAM	25	0	18.04	17.98	17.92	19	5		
10	256QAM	25	12	17.82	17.96	17.90	19	5		
10	256QAM	25	25	17.80	17.82	17.82	19	5		
10	256QAM	50	0	17.88	17.97	17.76	19	5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.01	23.05	22.84	24	0		
5	QPSK	1	24	22.94	23.06	22.81	24	0		
5	QPSK	12	0	21.87	21.95	21.81	23	1		
5	QPSK	12	7	21.73	21.82	21.84	23	1		
5	QPSK	25	0	20.84	20.97	20.80	22	2		
5	QPSK	25	0	21.82	21.96	21.86	23	1		
5	16QAM	1	0	21.79	21.87	21.87	23	1		
5	16QAM	1	12	21.60	21.82	21.68	23	1		
5	16QAM	1	24	21.60	21.86	21.67	23	1		
5	16QAM	12	0	21.01	21.00	20.98	22	2		
5	16QAM	12	7	20.76	20.94	20.75	22	2		
5	16QAM	12	13	20.85	20.96	20.75	22	2		
5	16QAM	25	0	19.87	19.97	20.90	21	3		
5	64QAM	1	0	20.79	20.96	20.67	22	2		
5	64QAM	1	12	20.62	20.76	20.61	22	2		
5	64QAM	1	24	20.69	20.73	20.71	22	2		
5	64QAM	12	0	19.87	19.97	19.86	21	3		
5	64QAM	12	7	19.85	19.88	19.91	21	3		
5	64QAM	12	13	19.79	19.88	19.77	21	3		
5	256QAM	1	0	17.80	17.92	17.80	19	5		
5	256QAM	1	12	17.80	17.93	17.89	19	5		
5	256QAM	1	24	17.75	18.00	17.83	19	5		
5	256QAM	12	0	17.78	17.91	17.82	19	5		
5	256QAM	12	7	17.76	17.89	17.83	19	5		
5	256QAM	12	13	17.76	17.70	17.71	19	5		
5	256QAM	25	0	17.86	17.90	17.67	19	5		
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.97	22.98	22.87	24	0		
3	QPSK	1	8	22.88	22.93	22.81	24	0		
3	QPSK	1	14	22.97	23.01	22.79	24	0		
3	QPSK	8	0	21.94	21.95	21.91	23	1		
3	QPSK	8	4	21.81	21.86	21.90	23	1		
3	QPSK	8	7	21.91	21.87	21.86	23	1		
3	QPSK	15	0	21.87	21.91	21.78	23	1		
3	16QAM	1	0	21.82	21.90	21.82	23	1		
3	16QAM	1	8	21.65	21.88	21.67	23	1		
3	16QAM	1	14	21.76	21.77	21.69	23	1		
3	16QAM	8	0	20.85	20.97	20.86	22	2		
3	16QAM	8	4	20.74	20.88	20.76	22	2		
3	16QAM	8	7	20.83	20.94	20.78	22	2		
3	16QAM	15	0	20.85	20.95	20.95	22	2		
3	64QAM	1	0	20.69	20.94	20.70	22	2		
3	64QAM	1	8	20.72	20.75	20.55	22	2		
3	64QAM	1	14	20.69	20.75	20.64	22	2		
3	64QAM	8	0	19.89	19.95	19.94	21	3		
3	64QAM	8	4	19.89	19.94	19.92	21	3		
3	64QAM	8	7	19.81	19.91	19.80	21	3		
3	64QAM	15	0	19.88	19.90	19.93	21	3		
3	256QAM	1	0	17.86	17.98	17.84	19	5		
3	256QAM	1	8	17.87	17.84	17.81	19	5		
3	256QAM	1	14	17.84	17.97	17.80	19	5		
3	256QAM	8	0	17.99	17.89	17.87	19	5		
3	256QAM	8	4	17.70	17.88	17.87	19	5		
3	256QAM	8	7	17.69	17.77	17.73	19	5		
3	256QAM	15	0	17.81	17.86	17.72	19	5		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.04	22.95	22.91	24	0		
1.4	QPSK	1	3	22.82	22.99	22.95	24	0		
1.4	QPSK	1	5	22.89	23.03	22.87	24	0		
1.4	QPSK	3	0	22.07	22.90	22.77	23	1		
1.4	QPSK	3	3	22.67	22.99	22.81	23	1		
1.4	QPSK	3	3	22.80	22.80	22.82	23	1		
1.4	QPSK	6	0	21.85	21.93	21.88	23	1		
1.4	16QAM	1	0	21.85	21.93	21.82	23	1		
1.4	16QAM	3	1	21.73	21.80	21.79	23	1		
1.4	16QAM	3	3	21.55	21.81	21.67	23	1		
1.4	16QAM	6	0	20.85	21.03	20.95	22	2		
1.4	64QAM	1	0	20.73	20.85	20.82	22	2		
1.4	64QAM	1	3	20.69	20.79	20.53	22	2		
1.4	64QAM	1	5	20.60	20.82	20.78	22	2		
1.4	64QAM	3	0	20.67	20.95	20.79	22	2		
1.4	64QAM	3	1	20.68	20.87	20.65	22	2		
1.4	64QAM	3	3	20.58	20.52	20.49	21	3		
1.4	64QAM	6	0	19.83	19.89	19.87	21	3		
1.4	256QAM	1	0	17.95	17.82	17.87	19	5		
1.4	256QAM	1	3	17.79	17.79	17.78	19	5		
1.4	256QAM	1	5	17.60	17.86	17.69	19	5		
1.4	256QAM	3	0	17.91	17.88	17.94	19	5		
1.4	256QAM	3	1	17.90	17.83	17.89	19	5		
1.4	256QAM	3	3	17.65	17.78	17.72	19	5		
1.4	256QAM	6	0	17.72	17.80	17.81	19	5		

Band 12 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq	Power Mid Ch./Freq	Power Low Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.04	23.04	23.04	24	0		
10	QPSK	1	25	22.98	23.01	22.98	24	0		
10	QPSK	1	49	23.02	23.00	23.03	24	0		
10	QPSK	25	0	21.92	21.95	21.95	23	1		
10	QPSK	25	25	21.77	21.82	21.73	23	1		
10	QPSK	50	0	21.87	21.91	21.87	23	1		
10	16QAM	1	0	21.83	21.86	21.82	23	1		
10	16QAM	1	25	21.77	21.82	21.73	23	1		
10	16QAM	1	49	21.77	21.88	21.81	23	1		
10	16QAM	25	0	20.93	20.94	21.00	22	2		
10	16QAM	25	12	20.80	20.80	20.86	22	2		
10	16QAM	25	25	20.92	20.94	20.87	22	2		
10	16QAM	50	0	20.88	20.95	20.85	22	2		
10	64QAM	1	0	20.88	20.89	20.83	22	2		
10	64QAM	1	25	20.85	20.79	20.76	22	2		
10	64QAM	1	49	20.78	20.85	20.87	22	2		
10	64QAM	25	0	19.87	19.97	19.98	21			



Band 26 Ant 0

Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				831.3	831.5	841.5		
15	QPSK	1	0	23.12	23.15	23.03	24	0
15	QPSK	1	37	22.99	23.09	23.04		
15	QPSK	1	74	23.08	23.12	22.95		
15	QPSK	36	0	22.06	22.10	22.08	23	1
15	QPSK	36	20	21.96	22.02	21.97		
15	QPSK	36	39	21.99	22.03	21.98		
15	QPSK	75	0	22.02	22.06	22.03		
15	16QAM	1	0	21.98	22.03	21.96	23	1
15	16QAM	1	37	21.87	21.96	21.85		
15	16QAM	1	74	21.90	21.96	21.86		
15	16QAM	36	0	21.11	21.07	21.04		
15	16QAM	36	20	20.91	21.00	20.88	22	2
15	16QAM	36	39	20.95	21.09	20.95		
15	16QAM	75	0	21.01	21.12	21.06		
15	64QAM	1	0	20.83	21.08	20.83	22	2
15	64QAM	1	37	20.88	20.92	20.80		
15	64QAM	1	74	20.87	20.97	20.88		
15	64QAM	36	0	20.04	20.07	20.03	21	3
15	64QAM	36	20	20.01	20.07	20.03		
15	64QAM	36	39	19.98	20.08	19.97		
15	64QAM	75	0	20.01	20.04	20.05		
15	256QAM	1	0	18.05	18.04	18.06	19	5
15	256QAM	1	37	18.02	18.01	17.99		
15	256QAM	1	74	18.01	18.09	17.92		
15	256QAM	36	0	18.07	18.02	18.04	19	5
15	256QAM	36	20	17.95	18.04	18.03		
15	256QAM	36	39	17.85	17.96	17.91		
15	256QAM	75	0	17.91	18.01	17.91		
Channel								
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.99	23.05	23.03	24	0
10	QPSK	1	25	22.90	23.05	22.99		
10	QPSK	1	49	23.01	23.05	22.83		
10	QPSK	25	0	21.99	22.02	21.97	23	1
10	QPSK	25	12	21.85	21.88	21.89		
10	QPSK	25	24	21.83	21.85	21.80		
10	QPSK	50	0	21.97	21.95	21.95		
10	16QAM	1	0	21.92	21.98	21.93	23	1
10	16QAM	1	25	21.84	21.86	21.74		
10	16QAM	1	49	21.83	21.88	21.75		
10	16QAM	25	0	21.03	21.04	20.90	22	2
10	16QAM	25	12	20.77	20.88	20.83		
10	16QAM	25	24	20.67	20.86	20.84		
10	16QAM	50	0	20.97	21.05	21.03		
10	64QAM	1	0	20.87	21.00	20.85	22	2
10	64QAM	1	25	20.76	20.89	20.74		
10	64QAM	1	49	20.84	20.85	20.74		
10	64QAM	25	0	19.85	19.85	19.85	21	3
10	64QAM	25	12	19.89	20.01	19.81		
10	64QAM	25	24	19.85	19.97	19.82		
10	256QAM	1	0	18.99	18.95	20.83	19	5
10	256QAM	1	25	17.93	17.91	17.93		
10	256QAM	1	49	17.97	18.00	17.79		
10	256QAM	25	0	17.86	17.94	17.84	19	5
10	256QAM	25	12	17.81	18.02	17.90		
10	256QAM	25	24	17.83	17.91	17.78		
10	256QAM	50	0	17.80	17.93	17.75		
Channel								
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	23.00	23.09	23.04	24	0
5	QPSK	1	12	22.96	23.03	22.96		
5	QPSK	1	24	22.96	22.99	22.84		
5	QPSK	12	0	22.03	22.02	21.99	23	1
5	QPSK	12	7	21.86	21.93	21.92		
5	QPSK	12	13	21.96	21.93	21.88		
5	QPSK	25	0	21.88	21.86	21.91	23	1
5	16QAM	1	0	21.86	21.93	21.88		
5	16QAM	1	12	21.75	21.92	21.74	22	2
5	16QAM	1	24	21.83	21.85	21.83		
5	16QAM	12	0	21.96	20.97	20.95		
5	16QAM	12	7	20.89	20.87	20.87	22	2
5	16QAM	12	13	20.89	20.88	20.87		
5	16QAM	25	0	20.95	21.01	20.95		
5	64QAM	1	0	20.90	21.03	20.89	22	2
5	64QAM	1	12	20.83	20.83	20.68		
5	64QAM	1	24	20.75	20.92	20.83		
5	64QAM	12	0	19.99	19.95	20.01	21	3
5	64QAM	12	7	19.89	20.05	20.00		
5	64QAM	12	13	19.91	19.96	19.86		
5	256QAM	1	0	19.93	19.94	19.92	19	5
5	256QAM	1	12	17.95	17.92	17.95		
5	256QAM	1	24	17.84	18.04	17.89		
5	256QAM	12	0	17.84	17.97	17.95	19	5
5	256QAM	12	7	17.85	17.88	17.88		
5	256QAM	12	13	17.72	17.85	17.84		
5	256QAM	25	0	17.84	17.95	17.70		
Channel								
Frequency (MHz)				26705	26865	27025		
3	QPSK	1	0	23.03	23.08	22.93	24	0
3	QPSK	1	8	22.93	23.03	22.91		
3	QPSK	1	14	23.06	23.09	22.90		
3	QPSK	8	0	22.02	22.01	21.97	23	1
3	QPSK	8	4	21.82	21.95	21.82		
3	QPSK	8	7	21.85	22.01	21.87		
3	QPSK	15	0	21.95	21.95	22.00	23	1
3	16QAM	1	0	21.87	21.90	21.90		
3	16QAM	1	8	21.85	21.88	21.77	22	2
3	16QAM	1	14	21.77	21.90	21.76		
3	16QAM	8	0	21.01	20.93	20.94		
3	16QAM	8	4	20.88	20.89	20.87	22	2
3	16QAM	8	7	20.91	21.06	20.83		
3	16QAM	15	0	20.94	21.07	20.83		
3	64QAM	1	0	20.80	21.04	20.81	22	2
3	64QAM	1	8	20.76	20.91	20.75		
3	64QAM	1	14	20.82	20.86	20.74		
3	64QAM	8	0	19.96	20.02	19.96	21	3
3	64QAM	8	4	19.89	19.95	19.97		
3	64QAM	8	7	19.91	19.98	19.94		
3	256QAM	1	0	19.87	19.95	19.92	19	5
3	256QAM	1	14	17.90	17.96	17.85		
3	256QAM	8	0	18.00	17.90	17.94		
3	256QAM	8	4	17.87	18.01	17.95	19	5
3	256QAM	8	7	17.76	17.92	17.89		
3	256QAM	15	0	17.80	17.88	17.68		
Channel								
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	23.09	23.03	22.98	24	0
1.4	QPSK	1	3	22.97	23.07	23.01		
1.4	QPSK	1	5	23.01	23.07	22.91		
1.4	QPSK	3	0	23.03	23.01	22.90	23	1
1.4	QPSK	3	1	22.81	23.05	22.92		
1.4	QPSK	3	3	22.91	22.98	22.88		
1.4	QPSK	6	0	21.89	22.00	22.00	22	1
1.4	16QAM	1	0	21.94	22.00	21.90		
1.4	16QAM	1	3	21.75	21.91	21.83	23	1
1.4	16QAM	1	5	21.87	21.87	21.75		
1.4	16QAM	3	0	21.77	21.90	21.87		
1.4	16QAM	3	1	21.85	21.89	21.84		
1.4	16QAM	3	3	21.66	21.83	21.71	22	2
1.4	16QAM	6	0	20.88	21.07	21.01		
1.4	64QAM	1	0	20.82	20.97	20.88		
1.4	64QAM	1	3	20.74	20.94	20.83	22	2
1.4	64QAM	1	5	20.77	20.99	20.89		
1.4	64QAM	3	1	20.74	20.95	20.78		
1.4	64QAM	3	3	20.79	20.73	20.59		
1.4	64QAM	6	0	19.87	19.97	19.86	21	3
1.4	256QAM	1	0	18.03	17.91	17.94	19	5
1.4	256QAM	1	3	17.92	17.89	17.87		
1.4	256QAM	1	5	17.95	18.01	17.82		
1.4	256QAM	3	0	18.02	17.93	18.02		
1.4	256QAM	3	1	17.92	17.93	17.95		
1.4	256QAM	3	3	17.72	17.84	17.77		
1.4	256QAM	6	0	17.81	17.94	17.69	19	5



GSM/ISD Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	94.2	94.8		95.1	Limit	94.2	
Frequency (MHz)	846.2	846.4	846.8	846.2	846.4	846.8		
GPRS 4 Tx slots	27.38	27.43	27.39	29.00	24.38	24.43	24.39	26.00

Band	WCDMA II Ant 1			Tune-up Limit (dBm)	WCDMA IV Ant 1			Tune-up Limit (dBm)	WCDMA V Ant 1			Tune-up Limit (dBm)
	TX Channel	900	940		958	Limit	1312		1413	1513	4192	
Frequency (MHz)	1852.4	1860	1868	1852.4	1852.4	1852.4	1852.4	1852.4	2419	2419	2419	2500
3GPP Rel 99	RNC 12.2Kbps	21.23	21.48	21.35	23.00	21.37	21.48	21.40	24.19	24.25	24.13	25.00

Band 2 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				18700	18900	19100				
20	QPSK	1	0	22.48	22.59	22.56	24	0		

Band 4 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20050	20175	20300				
20	QPSK	1	0	22.02	22.05	22.54	24	0		

Band 7 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20400	21190	21350				
20	QPSK	1	0	22.12	22.13	22.13	24	0		

Band 38 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2380	2395	2410				
20	QPSK	1	0	23.05	23.05	23.10	25	0		

Band 41 HPUE Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40165	40520	41050	41490		
20	QPSK	1	0	25.07	25.13	25.10	25.10	25.06	27	0

Band 66 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				132072	132322	132572				
20	QPSK	1	0	22.05	22.74	22.05	24	0		

Band 41 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				2306	2349.5	2393	2436.5	2480		
20	QPSK	1	0	23.11	22.98	23.10	23.10	22.99	25	0



Band 5 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq	Power Mid Ch./Freq	Power Low Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.67	22.67	22.67	24	0		
10	QPSK	1	25	22.56	22.70	22.54				
10	QPSK	1	49	22.51	22.67	22.66				
10	QPSK	25	0	21.69	21.74	21.66	23	1		
10	QPSK	25	25	21.63	21.83	21.68				
10	QPSK	25	25	21.49	21.66	21.48				
10	QPSK	50	0	21.65	21.70	21.55				
10	16QAM	1	0	21.68	21.58	21.53	23	1		
10	16QAM	1	25	21.59	21.47	21.53				
10	16QAM	1	49	21.47	21.60	21.45				
10	16QAM	25	0	20.68	20.75	20.66				
10	16QAM	25	12	20.67	20.71	20.60				
10	16QAM	25	25	20.52	20.69	20.54	22	2		
10	16QAM	50	0	20.66	20.64	20.65				
10	64QAM	1	0	20.63	20.66	20.45	22	2		
10	64QAM	1	25	20.61	20.54	20.52				
10	64QAM	1	49	20.43	20.69	20.48				
10	64QAM	25	0	19.74	19.67	19.66				
10	64QAM	25	12	19.59	19.62	19.70				
10	64QAM	25	25	19.61	19.57	19.44	21	3		
10	64QAM	50	0	19.59	19.70	19.52				
10	256QAM	1	0	17.76	17.69	17.65				
10	256QAM	1	25	17.65	17.69	17.56	19	5		
10	256QAM	1	49	17.61	17.61	17.52				
10	256QAM	25	0	17.61	17.75	17.54				
10	256QAM	25	12	17.64	17.61	17.52	19	5		
10	256QAM	25	25	17.60	17.59	17.59				
10	256QAM	50	0	17.49	17.64	17.42				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.65	22.85	22.59	24	0		
5	QPSK	1	24	22.43	22.58	22.56				
5	QPSK	12	0	21.60	21.68	21.64	23	1		
5	QPSK	12	7	21.54	21.55	21.57				
5	QPSK	25	0	20.61	20.58	20.52	23	1		
5	QPSK	25	0	21.53	21.61	21.50				
5	16QAM	1	0	21.56	21.51	21.43	23	1		
5	16QAM	1	12	21.56	21.35	21.44				
5	16QAM	12	24	21.52	21.51	21.47				
5	16QAM	12	0	20.50	20.65	20.50	22	2		
5	16QAM	12	7	20.48	20.68	20.48				
5	16QAM	12	13	20.44	20.66	20.42				
5	16QAM	25	0	20.61	20.59	20.56				
5	64QAM	1	0	20.51	20.58	20.42	22	2		
5	64QAM	1	12	20.51	20.41	20.49				
5	64QAM	1	24	20.36	20.63	20.46				
5	64QAM	12	0	19.67	19.57	19.53	21	3		
5	64QAM	12	7	19.45	19.50	19.67				
5	64QAM	12	13	19.48	19.45	19.38				
5	16QAM	25	0	19.66	19.64	19.49				
5	256QAM	1	0	17.69	17.56	17.58	19	5		
5	256QAM	1	12	17.63	17.56	17.47				
5	256QAM	1	24	17.40	17.55	17.44				
5	256QAM	12	0	17.47	17.61	17.46	19	5		
5	256QAM	12	7	17.57	17.48	17.44				
5	256QAM	12	13	17.48	17.50	17.54				
5	256QAM	25	0	17.26	17.67	17.36				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.67	22.61	22.66	24	0		
3	QPSK	1	8	22.43	22.61	22.41				
3	QPSK	1	14	22.46	22.54	22.63				
3	QPSK	8	0	21.63	21.71	21.58	23	1		
3	QPSK	8	4	21.51	21.50	21.54				
3	QPSK	8	7	21.39	21.57	21.37				
3	QPSK	15	0	21.63	21.66	21.44	23	1		
3	16QAM	1	0	21.54	21.45	21.46				
3	16QAM	1	8	21.54	21.44	21.41				
3	16QAM	1	14	21.43	21.57	21.35				
3	16QAM	8	0	20.56	20.66	20.53	22	2		
3	16QAM	8	4	20.47	20.62	20.47				
3	16QAM	8	7	20.48	20.62	20.42				
3	16QAM	15	0	20.64	20.58	20.55				
3	64QAM	1	0	20.51	20.56	20.40	22	2		
3	64QAM	1	8	20.58	20.44	20.41				
3	64QAM	1	14	20.38	20.60	20.37				
3	64QAM	8	0	19.62	19.64	19.63	21	3		
3	64QAM	8	4	19.62	19.50	19.67				
3	64QAM	8	7	19.47	19.50	19.31				
3	64QAM	15	0	19.48	19.61	19.40				
3	256QAM	1	0	17.50	17.62	17.61	19	5		
3	256QAM	1	8	17.58	17.60	17.51				
3	256QAM	1	14	17.44	17.59	17.46				
3	256QAM	8	0	17.54	17.70	17.46	19	5		
3	256QAM	8	4	17.48	17.48	17.43				
3	256QAM	8	7	17.57	17.52	17.50				
3	256QAM	15	0	17.38	17.55	17.29				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.57	22.59	22.61	24	0		
1.4	QPSK	1	3	22.46	22.58	22.54				
1.4	QPSK	1	5	22.46	22.61	22.50				
1.4	QPSK	3	0	22.41	22.63	22.52	23	1		
1.4	QPSK	3	3	22.40	22.46	22.46				
1.4	QPSK	3	3	22.36	22.54	22.43				
1.4	QPSK	6	0	21.49	21.57	21.44	23	1		
1.4	16QAM	1	0	21.53	21.80	21.53				
1.4	16QAM	1	4	21.40	21.53	21.48				
1.4	16QAM	1	5	21.49	21.57	21.45	23	1		
1.4	16QAM	3	0	21.36	21.56	21.37				
1.4	16QAM	3	3	21.34	21.42	21.48				
1.4	16QAM	6	0	20.62	20.62	20.57	22	2		
1.4	64QAM	1	0	20.57	20.59	20.32				
1.4	64QAM	1	3	20.48	20.53	20.48	22	2		
1.4	64QAM	1	5	20.44	20.60	20.42				
1.4	64QAM	3	0	20.50	20.65	20.45				
1.4	64QAM	3	1	20.50	20.46	20.30	21	3		
1.4	64QAM	3	3	20.42	20.35	20.35				
1.4	64QAM	6	0	19.47	19.51	19.53	21	3		
1.4	256QAM	1	0	17.73	17.56	17.67				
1.4	256QAM	1	3	17.58	17.56	17.51	19	5		
1.4	256QAM	1	5	17.62	17.56	17.50				
1.4	256QAM	3	0	17.45	17.63	17.42				
1.4	256QAM	3	1	17.50	17.56	17.41				
1.4	256QAM	3	3	17.53	17.50	17.52				
1.4	256QAM	6	0	17.44	17.46	17.32	19	5		

Band 12 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq	Power Mid Ch./Freq	Power Low Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.67	22.67	22.66	24	0		
10	QPSK	1	25	22.56	22.70	22.51				
10	QPSK	1	49	22.62	22.63	22.63				
10	QPSK	25	0	21.55	21.68	21.52	23	1		
10	QPSK	25	25	21.52	21.45	21.42				
10	QPSK	50	0	21.46	21.51	21.42				
10	16QAM	1	0	21.45	21.48	21.47	23	1		
10	16QAM	1	25	21.31	21.42	21.30				
10	16QAM	1	49	21.40	21.38	21.29				
10	16QAM	25	0	20.58	20.57	20.53				
10	16QAM	25	12	20.50	20.42	20.48	22	2		
10	16QAM	25	25	20.50	20.43	20.42				
10	16QAM	50	0	20.43	20.49	20.40				
10	64QAM	1	0	20.45	20.53	20.46	22	2		
10	64QAM	1	25	20.34	20.38	20.35				
10	64QAM	1	49	20.42	20.35	20.29				
10	64QAM	25	0	19.68	19.56	19.53				
10	64QAM	25	12	19.63	19.62	19.42	21	3		
10	64QAM	25								



Band 26 Ant 1

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				821.3	831.5	841.5		
15	QPSK	1	0	22.73	22.74	22.75	24	0
15	QPSK	1	37	22.59	22.75	22.62		
15	QPSK	1	74	22.62	22.73	22.71		
15	QPSK	36	0	21.74	21.76	21.72	23	1
15	QPSK	36	20	21.71	21.68	21.68		
15	QPSK	36	39	21.60	21.71	21.58		
15	QPSK	75	0	21.67	21.73	21.62	23	1
15	16QAM	1	0	21.68	21.69	21.58		
15	16QAM	1	37	21.63	21.57	21.64		
15	16QAM	1	74	21.57	21.66	21.55	22	2
15	16QAM	36	0	20.79	20.76	20.73		
15	16QAM	36	20	20.68	20.72	20.62		
15	16QAM	36	39	20.63	20.74	20.55	22	2
15	16QAM	75	0	20.70	20.72	20.68		
15	64QAM	1	0	20.68	20.70	20.63		
15	64QAM	1	37	20.56	20.61	20.62	22	2
15	64QAM	1	74	20.52	20.72	20.57		
15	64QAM	36	0	19.77	19.70	19.76		
15	64QAM	36	20	19.68	19.64	19.72	21	3
15	64QAM	36	39	19.63	19.68	19.63		
15	64QAM	75	0	19.65	19.71	19.62		
15	256QAM	1	0	17.78	17.77	17.72	19	5
15	256QAM	1	37	17.68	17.70	17.67		
15	256QAM	1	74	17.58	17.68	17.59		
15	256QAM	36	0	17.67	17.77	17.62	19	5
15	256QAM	36	20	17.69	17.71	17.54		
15	256QAM	36	39	17.63	17.61	17.59		
15	256QAM	75	0	17.59	17.66	17.60		
Channel								
Frequency (MHz)				267.60	268.65	269.60		
10	QPSK	1	0	22.70	22.72	22.64	24	0
10	QPSK	1	25	22.48	22.69	22.58		
10	QPSK	1	49	22.51	22.66	22.61		
10	QPSK	25	0	21.69	21.75	21.70	23	1
10	QPSK	25	12	21.64	21.68	21.62		
10	QPSK	25	24	21.55	21.66	21.54		
10	QPSK	50	0	21.58	21.68	21.51	23	1
10	16QAM	1	0	21.66	21.65	21.46		
10	16QAM	1	25	21.61	21.46	21.57		
10	16QAM	1	49	21.50	21.63	21.44	22	2
10	16QAM	25	0	20.75	20.75	20.72		
10	16QAM	25	12	20.62	20.68	20.56		
10	16QAM	25	24	20.58	20.71	20.47	22	2
10	16QAM	50	0	20.67	20.70	20.65		
10	64QAM	1	0	20.67	20.61	20.42		
10	64QAM	1	25	20.63	20.51	20.52	22	2
10	64QAM	1	49	20.48	20.61	20.50		
10	64QAM	25	0	19.65	19.69	19.75		
10	64QAM	25	12	19.58	19.63	19.65	21	3
10	64QAM	25	24	19.62	19.60	19.43		
10	64QAM	50	0	19.63	19.68	19.59		
10	256QAM	1	0	17.75	17.69	17.61	19	5
10	256QAM	1	25	17.66	17.61	17.55		
10	256QAM	1	49	17.51	17.66	17.48		
10	256QAM	25	0	17.56	17.71	17.61	19	5
10	256QAM	25	12	17.60	17.67	17.53		
10	256QAM	25	24	17.52	17.58	17.57		
10	256QAM	50	0	17.57	17.54	17.39		
Channel								
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.66	22.74	22.63	24	0
5	QPSK	1	12	22.53	22.73	22.54		
5	QPSK	1	24	22.60	22.70	22.61		
5	QPSK	12	0	21.70	21.69	21.62	23	1
5	QPSK	12	7	21.69	21.66	21.58		
5	QPSK	12	13	21.59	21.61	21.52		
5	QPSK	25	0	21.66	21.64	21.51	23	1
5	16QAM	1	0	21.61	21.63	21.53		
5	16QAM	1	12	21.59	21.54	21.53		
5	16QAM	1	24	21.51	21.59	21.49	22	2
5	16QAM	12	0	20.69	20.76	20.69		
5	16QAM	12	7	20.65	20.66	20.58		
5	16QAM	12	13	20.61	20.69	20.46	22	2
5	16QAM	25	0	20.66	20.64	20.58		
5	64QAM	1	0	20.65	20.59	20.46		
5	64QAM	1	12	20.65	20.60	20.55	22	2
5	64QAM	1	24	20.45	20.71	20.48		
5	64QAM	12	0	19.72	19.60	19.67		
5	64QAM	12	7	19.68	19.63	19.67	21	3
5	64QAM	12	13	19.62	19.66	19.52		
5	64QAM	25	0	19.65	19.61	19.57		
5	256QAM	1	0	17.73	17.76	17.65	19	5
5	256QAM	1	12	17.67	17.68	17.59		
5	256QAM	1	24	17.51	17.64	17.47		
5	256QAM	12	0	17.60	17.74	17.51	19	5
5	256QAM	12	7	17.57	17.61	17.44		
5	256QAM	12	13	17.54	17.56	17.56		
5	256QAM	25	0	17.56	17.59	17.41		
Channel								
Frequency (MHz)				267.05	268.65	270.25		
3	QPSK	1	0	22.69	22.72	22.65	24	0
3	QPSK	1	8	22.51	22.63	22.51		
3	QPSK	1	14	22.57	22.64	22.59		
3	QPSK	8	0	21.71	21.69	21.62	23	1
3	QPSK	8	4	21.65	21.68	21.68		
3	QPSK	8	7	21.49	21.67	21.48		
3	QPSK	15	0	21.57	21.64	21.52	23	1
3	16QAM	1	0	21.58	21.62	21.46		
3	16QAM	1	8	21.55	21.48	21.54		
3	16QAM	1	14	21.51	21.60	21.55	22	2
3	16QAM	8	0	20.77	20.74	20.72		
3	16QAM	8	4	20.62	20.72	20.61		
3	16QAM	8	7	20.57	20.72	20.49	22	2
3	64QAM	1	0	20.63	20.66	20.46		
3	64QAM	1	8	20.63	20.55	20.52		
3	64QAM	1	14	20.46	20.71	20.49	22	2
3	64QAM	8	0	19.74	19.69	19.66		
3	64QAM	8	4	19.66	19.58	19.66		
3	64QAM	8	7	19.52	19.67	19.43	21	3
3	64QAM	15	0	19.54	19.65	19.57		
3	256QAM	1	0	17.74	17.67	17.70		
3	256QAM	1	9	17.63	17.58	17.55	19	5
3	256QAM	1	14	17.46	17.66	17.59		
3	256QAM	8	0	17.65	17.74	17.60		
3	256QAM	8	4	17.61	17.68	17.46	19	5
3	256QAM	8	7	17.54	17.61	17.57		
3	256QAM	15	0	17.48	17.63	17.44		
Channel								
Frequency (MHz)				269.77	269.65	270.33		
1.4	QPSK	1	0	22.62	22.73	22.66	24	0
1.4	QPSK	1	3	22.59	22.65	22.58		
1.4	QPSK	1	5	22.52	22.70	22.60		
1.4	QPSK	3	0	22.51	22.66	22.58	23	1
1.4	QPSK	3	1	22.45	22.55	22.57		
1.4	QPSK	3	3	22.47	22.64	22.49		
1.4	QPSK	6	0	21.55	21.69	21.53	23	1
1.4	16QAM	1	0	21.61	21.68	21.57		
1.4	16QAM	1	3	21.54	21.57	21.58		
1.4	16QAM	1	5	21.57	21.64	21.54	23	1
1.4	16QAM	3	0	21.45	21.63	21.45		
1.4	16QAM	3	1	21.50	21.67	21.55		
1.4	16QAM	3	3	21.44	21.46	21.52	22	2
1.4	16QAM	6	0	20.67	20.71	20.59		
1.4	64QAM	1	0	20.66	20.64	20.44		
1.4	64QAM	1	3	20.59	20.58	20.59	22	2
1.4	64QAM	1	5	20.49	20.63	20.49		
1.4	64QAM	3	0	20.61	20.68	20.48		
1.4	64QAM	3	1	20.58	20.57	20.41	21	3
1.4	64QAM	3	3	20.54	20.48	20.49		
1.4	64QAM	6	0	19.56	19.63	19.62		
1.4	256QAM	1	0	17.76	17.66	17.69	19	5
1.4	256QAM	1	3	17.67	17.65	17.57		
1.4	256QAM	1	5	17.58	17.62	17.57		
1.4	256QAM	3	0	17.59	17.68	17.54	19	5
1.4	256QAM	3	1	17.58	17.63	17.45		
1.4	256QAM	3	3	17.59	17.59	17.58		
1.4	256QAM	6	0	17.63	17.62	17.45		



OSM 1900 Ant 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	945	950		Limit	945	950	
Frequency (MHz)	1860.2	1880	1909.8	1860.2	1880	1909.8		
GPRS 4 Tx slots	25.20	25.22	25.17	26.00	22.20	22.22	22.17	23.00

Band	WCDMA II Ant 2			Tune-up Limit (dBm)	WCDMA IV Ant 2			Tune-up Limit (dBm)
	TX Channel	9602	9600		9608	Limit	1413	
Frequency (MHz)	1860.4	1880	1909.6	1860.4	1880	1909.6		
3GPP Rel 99 RVC 12.2Kbps	23.08	23.17	23.13	24.00	22.98	23.02	22.92	24.00

Band 2 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				18700	18900	19100			
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	22.88	22.55	22.85	24	0	

Band 4 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				20050	20175	20300			
Frequency (MHz)				1990	2020.5	2040			
20	QPSK	1	0	22.09	22.55	22.55	24	0	

Band 7 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				20400	21100	21350			
Frequency (MHz)				2010	2105	2060			
20	QPSK	1	0	23.14	23.20	23.30	25	0	

Band 38 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				37800	38000	38150			
Frequency (MHz)				2805	2895	2810			
20	QPSK	1	0	23.35	23.55	23.30	25	0	

Band 41 HPUE Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40180	40520	40550	41490		
Frequency (MHz)				2505	2548.5	2593	2638.5	2680		
20	QPSK	1	0	25.44	25.48	25.50	25.43	25.51	26	0

Band 66 Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				132072	132322	132372				
Frequency (MHz)				1270	1345	1370				
20	QPSK	1	0	22.75	22.85	22.74			24	0

Band 41 Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40180	40520	40550	41490		
Frequency (MHz)				2506	2549.5	2593	2638.5	2680		
20	QPSK	1	0	23.53	23.50	23.00	22.48	23.56	25	0



Band	WCDMA 3 Ant 3			WCDMA 4 Ant 3			Tune-up Limit (dBm)	
	Tx Channel	9662	9600	9638	1332	1413		1453
Rx Channel	9662	9600	9638	1332	1413	1453	1738	
Frequency (MHz)	1802.4	1800	1800.6	1872.4	1872.6	1872.4	1872.4	
3GPP Rel 99	RMC 12-9Kbps	21.11	21.17	21.10	22.00	21.18	21.20	21.21
								22.00

Band 2 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18800	19100			
Frequency (MHz)				1865	1880	1900			
20	QPSK	1	0	22.75	22.50	22.75	24	0	

Band 4 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20050	20150	20300			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	22.75	22.50	22.75	24	0	

Band 7 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20800	21100	21300			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.87	23.30	23.24	25	0	

Band 38 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				37600	38000	38150			
Frequency (MHz)				2260	2290	2310			
20	QPSK	1	0	22.87	23.00	22.83	24	0	

Band 41 HPUE Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39700	40100	40600	41000		
Frequency (MHz)				2260	2290	2330	2360		
20	QPSK	1	0	25.75	25.89	25.50	25.89	25.85	27

Band 66 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				32072	32220	32572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	22.80	22.80	22.70	24	0	

Band 41 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39700	40100	40600	41000		
Frequency (MHz)				2260	2290	2330	2360		
20	QPSK	1	0	22.80	22.91	23.00	22.91	22.89	24



Band 42 Part 27Q Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mide Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				42160	42900	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	23.03	23.11	23.08		
20	QPSK	1	49	22.91	23.03	22.95	24	0
20	QPSK	1	99	22.85	23.00	23.03		
20	QPSK	50	0	22.02	22.08	22.05		
20	QPSK	50	24	21.88	22.01	21.95		
20	QPSK	50	50	21.97	21.98	21.98	23	1
20	QPSK	100	0	21.98	22.03	22.02		
20	16QAM	1	0	21.99	21.96	21.96		
20	16QAM	1	49	21.83	21.96	21.90	23	1
20	16QAM	1	99	21.85	21.98	21.95		
20	16QAM	50	0	21.05	21.05	21.07		
20	16QAM	50	24	20.83	20.98	20.94	22	2
20	16QAM	50	50	20.95	20.96	20.92		
20	16QAM	100	0	20.98	21.05	20.98		
20	64QAM	1	0	21.04	20.93	21.00		
20	64QAM	1	49	20.88	21.02	20.88	22	2
20	64QAM	1	99	20.86	20.84	20.91		
20	64QAM	50	0	19.96	20.03	20.08		
20	64QAM	50	24	19.92	20.07	20.01		
20	64QAM	50	50	19.98	20.02	19.99	21	3
20	64QAM	100	0	19.99	20.04	20.02		
20	256QAM	1	0	18.00	18.07	18.00		
20	256QAM	1	49	17.91	18.01	17.96	19	5
20	256QAM	1	99	17.98	18.04	17.98		
20	256QAM	50	0	17.98	18.02	17.97		
20	256QAM	50	24	17.93	17.97	17.93	19	5
20	256QAM	50	50	17.82	17.94	17.89		
20	256QAM	100	0	17.89	17.96	17.88		
Channel				42165	42900	43015		
Frequency (MHz)				347.5	3500	3542.5		
15	QPSK	1	0	22.99	23.08	23.01		
15	QPSK	1	37	22.81	22.98	22.88	24	0
15	QPSK	1	74	22.88	22.97	22.94		
15	QPSK	36	0	21.89	22.01	21.96		
15	QPSK	36	20	21.83	21.92	21.87	23	1
15	QPSK	36	39	21.93	21.93	21.86		
15	QPSK	75	0	21.84	22.00	21.94		
15	16QAM	1	0	21.85	21.92	21.87		
15	16QAM	1	37	21.80	21.92	21.84	23	1
15	16QAM	1	74	21.78	21.83	21.87		
15	16QAM	36	0	21.04	20.93	20.96		
15	16QAM	36	20	20.78	20.96	20.84	22	2
15	16QAM	36	39	20.82	20.84	20.89		
15	16QAM	75	0	20.90	20.93	20.88		
15	16QAM	1	0	20.82	20.96	20.97		
15	16QAM	1	37	20.76	20.95	20.76	22	2
15	64QAM	1	74	20.76	20.77	20.78		
15	64QAM	36	0	19.89	19.97	19.99		
15	64QAM	36	20	19.84	19.94	19.86		
15	64QAM	36	39	19.82	19.98	19.89	21	3
15	64QAM	75	0	19.86	19.86	19.85		
15	256QAM	1	0	17.86	18.02	17.96		
15	256QAM	1	37	17.80	17.87	17.87	19	5
15	256QAM	1	74	17.85	18.00	17.93		
15	256QAM	36	0	17.90	17.99	17.95		
15	256QAM	36	20	17.79	17.90	17.86		
15	256QAM	36	39	17.70	17.81	17.76	19	5
15	256QAM	75	0	17.81	17.80	17.84		
Channel				42160	42900	43000		
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	22.90	23.08	23.04		
10	QPSK	1	25	22.82	23.00	22.82	24	0
10	QPSK	1	49	22.86	22.96	23.01		
10	QPSK	25	0	21.90	21.98	21.97		
10	QPSK	25	12	21.80	21.98	21.85	23	1
10	QPSK	25	25	21.84	21.85	21.84		
10	QPSK	50	0	21.00	21.02	21.02		
10	16QAM	1	0	21.04	21.01	21.01		
10	16QAM	1	25	21.77	21.85	21.77	23	1
10	16QAM	1	49	21.80	21.82	21.80		
10	16QAM	25	0	20.95	20.99	21.04		
10	16QAM	25	12	20.78	20.85	20.85	22	2
10	16QAM	25	25	20.91	20.89	20.87		
10	16QAM	50	0	20.84	20.91	20.85		
10	64QAM	1	0	21.01	20.85	20.88		
10	64QAM	1	25	20.80	20.99	20.78	22	2
10	64QAM	1	49	20.83	20.94	20.81		
10	64QAM	25	0	19.85	19.94	19.98		
10	64QAM	25	12	19.84	19.96	19.87	21	3
10	64QAM	25	25	19.90	19.99	19.92		
10	64QAM	50	0	19.85	19.98	20.00		
10	256QAM	1	0	17.93	17.95	17.95		
10	256QAM	1	25	17.86	17.81	17.86	19	5
10	256QAM	1	49	17.85	17.81	17.89		
10	256QAM	25	0	17.92	17.99	17.91		
10	256QAM	25	12	17.80	17.81	17.80	19	5
10	256QAM	25	25	17.78	17.88	17.79		
10	256QAM	50	0	17.85	17.75	17.86		
Channel				42115	42900	43000		
Frequency (MHz)				3492.5	3500	3547.5		
5	QPSK	1	0	22.94	23.04	23.02		
5	QPSK	1	12	22.85	22.92	22.90	24	0
5	QPSK	1	24	22.91	22.85	22.90		
5	QPSK	12	0	21.91	22.05	21.96		
5	QPSK	12	7	21.75	21.87	21.90	23	1
5	QPSK	12	13	21.92	21.90	21.92		
5	QPSK	25	0	21.91	21.89	21.99		
5	16QAM	1	0	21.93	21.89	21.95		
5	16QAM	1	12	21.72	21.84	21.76	23	1
5	16QAM	1	24	21.71	21.84	21.92		
5	16QAM	12	0	20.98	20.97	20.95		
5	16QAM	12	7	20.72	20.83	20.86	22	2
5	16QAM	12	13	20.92	20.93	20.82		
5	16QAM	25	0	20.86	21.01	20.90		
5	64QAM	1	0	21.01	20.88	20.93		
5	64QAM	1	12	20.81	20.91	20.77	22	2
5	64QAM	1	24	20.80	20.75	20.82		
5	64QAM	12	0	19.90	19.89	20.04		
5	64QAM	12	7	19.84	20.03	19.94	21	3
5	64QAM	12	13	19.85	19.98	19.87		
5	64QAM	25	0	19.84	19.95	19.93		
5	256QAM	1	0	17.82	17.95	17.90		
5	256QAM	1	12	17.84	17.95	17.82	19	5
5	256QAM	1	24	17.89	17.81	17.87		
5	256QAM	12	0	17.87	17.86	17.86		
5	256QAM	12	7	17.86	17.80	17.81	19	5
5	256QAM	12	13	17.72	17.89	17.80		
5	256QAM	25	0	17.84	17.75	17.86		



Band 42 Part 27Q Ant 6

Channel	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)				4260	4260	4260		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	22.76	22.80	22.75		
20	QPSK	1	49	22.70	22.75	22.67	24	0
20	QPSK	1	99	22.67	22.68	22.63		
20	QPSK	50	0	21.70	21.73	21.68		
20	QPSK	50	24	21.63	21.64	21.59		
20	QPSK	50	50	21.60	21.60	21.62	23	1
20	QPSK	100	0	21.64	21.70	21.57		
20	16QAM	1	0	21.66	21.67	21.56		
20	16QAM	1	49	21.50	21.59	21.50	23	1
20	16QAM	1	99	21.48	21.47	21.56		
20	16QAM	50	0	20.75	20.70	20.74		
20	16QAM	50	24	20.67	20.67	20.56		
20	16QAM	50	50	20.61	20.62	20.60	22	2
20	16QAM	100	0	20.60	20.67	20.57		
20	64QAM	1	0	20.67	20.62	20.59		
20	64QAM	1	49	20.54	20.54	20.53	22	2
20	64QAM	1	99	20.48	20.50	20.55		
20	64QAM	50	0	19.70	19.72	19.67		
20	64QAM	50	24	19.58	19.62	19.58		
20	64QAM	50	50	19.63	19.58	19.61	21	3
20	64QAM	100	0	19.60	19.70	19.61		
20	256QAM	1	0	17.72	17.70	17.67		
20	256QAM	1	49	17.68	17.63	17.61	19	5
20	256QAM	1	99	17.66	17.57	17.57		
20	256QAM	50	0	17.61	17.68	17.61		
20	256QAM	50	24	17.67	17.64	17.59	19	5
20	256QAM	50	50	17.46	17.62	17.50		
20	256QAM	100	0	17.43	17.50	17.56		
Channel								
Frequency (MHz)				42165	42600	43015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500	3542.5		
15	QPSK	1	0	22.70	22.75	22.69		
15	QPSK	1	37	22.56	22.62	22.59	24	0
15	QPSK	1	74	22.64	22.58	22.51		
15	QPSK	36	0	21.67	21.68	21.62		
15	QPSK	36	20	21.62	21.68	21.48	23	1
15	QPSK	36	39	21.50	21.51	21.52		
15	QPSK	75	0	21.51	21.60	21.53		
15	16QAM	1	0	21.62	21.64	21.44		
15	16QAM	1	37	21.45	21.48	21.44	23	1
15	16QAM	1	74	21.46	21.41	21.45		
15	16QAM	36	0	20.71	20.67	20.67		
15	16QAM	36	20	20.81	20.56	20.50	22	2
15	16QAM	36	39	20.49	20.55	20.57		
15	16QAM	75	0	20.52	20.59	20.43		
15	64QAM	1	0	20.63	20.59	20.53		
15	64QAM	1	37	20.46	20.51	20.47	22	2
15	64QAM	1	74	20.41	20.39	20.48		
15	64QAM	36	0	19.62	19.59	19.58		
15	64QAM	36	20	19.40	19.59	19.45	21	3
15	64QAM	36	39	19.53	19.53	19.62		
15	64QAM	75	0	19.48	19.64	19.56		
15	256QAM	1	0	17.61	17.64	17.60		
15	256QAM	1	37	17.63	17.55	17.55	19	5
15	256QAM	1	74	17.63	17.63	17.50		
15	256QAM	36	0	17.48	17.61	17.57		
15	256QAM	36	20	17.64	17.56	17.48	19	5
15	256QAM	36	39	17.40	17.54	17.44		
15	256QAM	75	0	17.41	17.39	17.44		
Channel								
Frequency (MHz)				42160	42600	43000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	22.70	22.70	22.70		
10	QPSK	1	25	22.63	22.70	22.63	24	0
10	QPSK	1	49	22.67	22.55	22.61		
10	QPSK	25	0	21.57	21.68	21.54		
10	QPSK	25	12	21.56	21.67	21.48	23	1
10	QPSK	25	25	21.46	21.54	21.56		
10	QPSK	50	0	21.67	21.61	21.50		
10	16QAM	1	0	21.67	21.55	21.52		
10	16QAM	1	25	21.45	21.46	21.40	23	1
10	16QAM	1	49	21.39	21.42	21.54		
10	16QAM	25	0	20.70	20.63	20.69		
10	16QAM	25	12	20.58	20.62	20.44	22	2
10	16QAM	25	25	20.50	20.51	20.48		
10	16QAM	50	0	20.62	20.59	20.47		
10	64QAM	1	0	20.62	20.59	20.49		
10	64QAM	1	25	20.46	20.51	20.44	22	2
10	64QAM	1	49	20.36	20.39	20.43		
10	64QAM	25	0	19.61	19.66	19.61		
10	64QAM	25	12	19.45	19.50	19.50	21	3
10	64QAM	25	25	19.62	19.46	19.51		
10	64QAM	50	0	19.66	19.59	19.46		
10	256QAM	1	0	17.63	17.58	17.67		
10	256QAM	1	25	17.63	17.59	17.51	19	5
10	256QAM	1	49	17.58	17.49	17.51		
10	256QAM	25	0	17.69	17.58	17.51		
10	256QAM	25	12	17.67	17.62	17.54	19	5
10	256QAM	25	25	17.33	17.51	17.42		
10	256QAM	50	0	17.28	17.43	17.49		
Channel								
Frequency (MHz)				3452.5	3500	3547.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	22.69	22.74	22.70		
5	QPSK	1	12	22.69	22.69	22.59	24	0
5	QPSK	1	24	22.64	22.65	22.60		
5	QPSK	12	0	21.57	21.65	21.62		
5	QPSK	12	7	21.63	21.54	21.52	23	1
5	QPSK	12	13	21.57	21.48	21.63		
5	QPSK	25	0	21.59	21.67	21.49		
5	16QAM	1	0	21.55	21.65	21.53	23	1
5	16QAM	1	12	21.47	21.45	21.63		
5	16QAM	1	24	21.42	21.45	21.48		
5	16QAM	12	0	20.63	20.58	20.69		
5	16QAM	12	7	20.63	20.65	20.49	22	2
5	16QAM	12	13	20.53	20.49	20.57		
5	16QAM	25	0	20.49	20.67	20.55		
5	64QAM	1	0	20.55	20.53	20.51		
5	64QAM	1	12	20.41	20.54	20.38	22	2
5	64QAM	1	24	20.37	20.42	20.50		
5	64QAM	12	0	19.67	19.68	19.53		
5	64QAM	12	7	19.65	19.56	19.53	21	3
5	64QAM	12	13	19.61	19.55	19.54		
5	64QAM	25	0	19.46	19.60	19.38		
5	256QAM	1	0	17.61	17.67	17.59		
5	256QAM	1	12	17.63	17.58	17.56	19	5
5	256QAM	1	24	17.59	17.47	17.45		
5	256QAM	12	0	17.58	17.65	17.57		
5	256QAM	12	7	17.58	17.59	17.54	19	5
5	256QAM	12	13	17.24	17.54	17.37		
5	256QAM	25	0	17.29	17.38	17.51		



Band 42 Part 27Q Ant 3

Channel	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				4260	4260	4260		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	23.80	23.85	23.79		
20	QPSK	1	49	23.71	23.78	23.71	24	0
20	QPSK	1	99	23.74	23.72	23.74		
20	QPSK	50	0	22.70	22.74	22.68		
20	QPSK	50	24	22.56	22.70	22.65		
20	QPSK	50	50	22.65	22.68	22.67	23	1
20	QPSK	100	0	22.61	22.68	22.55		
20	16QAM	1	0	22.56	22.62	22.56		
20	16QAM	1	49	22.50	22.66	22.53	23	1
20	16QAM	1	99	22.62	22.62	22.64		
20	16QAM	50	0	21.64	21.76	21.68		
20	16QAM	50	24	21.59	21.73	21.71		
20	16QAM	50	50	21.60	21.63	21.59	22	2
20	16QAM	100	0	21.63	21.73	21.57		
20	64QAM	1	0	21.67	21.64	21.56		
20	64QAM	1	49	21.56	21.72	21.56	22	2
20	64QAM	1	99	21.66	21.62	21.50		
20	64QAM	50	0	20.67	20.74	20.68		
20	64QAM	50	24	20.61	20.68	20.69		
20	64QAM	50	50	20.63	20.66	20.56	21	3
20	64QAM	100	0	20.67	20.70	20.50		
20	256QAM	1	0	18.74	18.75	18.64		
20	256QAM	1	49	18.51	18.65	18.61	19	5
20	256QAM	1	99	18.66	18.70	18.62		
20	256QAM	50	0	18.58	18.74	18.61		
20	256QAM	50	24	18.60	18.66	18.55	19	5
20	256QAM	50	50	18.48	18.62	18.49		
20	256QAM	100	0	18.68	18.67	18.46		
Channel				42165	42090	43015		
Frequency (MHz)				3475.5	3500	3542.5		
15	QPSK	1	0	23.73	23.73	23.72		
15	QPSK	1	37	23.60	23.73	23.67	24	0
15	QPSK	1	74	23.63	23.63	23.66		
15	QPSK	36	0	22.67	22.60	22.61		
15	QPSK	36	20	22.44	22.67	22.61	23	1
15	QPSK	36	39	22.62	22.63	22.43		
15	QPSK	75	0	22.53	22.64	22.46		
15	16QAM	1	0	22.49	22.59	22.47		
15	16QAM	1	37	22.39	22.64	22.44	23	1
15	16QAM	1	74	22.53	22.58	22.36		
15	16QAM	36	0	21.58	21.68	21.62		
15	16QAM	36	20	21.53	21.68	21.67	22	2
15	16QAM	36	39	21.64	21.60	21.53		
15	16QAM	75	0	21.63	21.63	21.51		
15	16QAM	1	0	21.48	21.51	21.45		
15	16QAM	1	37	21.53	21.66	21.50	22	2
15	64QAM	1	74	21.62	21.62	21.41		
15	64QAM	36	0	20.60	20.64	20.54		
15	64QAM	36	20	20.49	20.61	20.65	21	3
15	64QAM	36	39	20.58	20.58	20.44		
15	64QAM	75	0	20.64	20.64	20.38		
15	256QAM	1	0	18.71	18.67	18.50		
15	256QAM	1	37	18.47	18.67	18.56	19	5
15	256QAM	1	74	18.67	18.66	18.53		
15	256QAM	36	0	18.52	18.65	18.52		
15	256QAM	36	20	18.60	18.53	18.48	19	5
15	256QAM	36	39	18.38	18.58	18.41		
15	256QAM	75	0	18.60	18.50	18.43		
Channel				42165	42090	43000		
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	23.70	23.80	23.77		
10	QPSK	1	25	23.60	23.72	23.67	24	0
10	QPSK	1	49	23.71	23.62	23.61		
10	QPSK	25	0	22.59	22.70	22.55		
10	QPSK	25	12	22.44	22.63	22.53	23	1
10	QPSK	25	25	22.59	22.64	22.44		
10	QPSK	50	0	22.51	22.62	22.42		
10	16QAM	1	0	22.47	22.51	22.53		
10	16QAM	1	25	22.40	22.62	22.45	23	1
10	16QAM	1	49	22.60	22.51	22.32		
10	16QAM	25	0	21.60	21.65	21.62		
10	16QAM	25	12	21.47	21.70	21.62	22	2
10	16QAM	25	25	21.56	21.51	21.54		
10	16QAM	50	0	21.61	21.66	21.48		
10	64QAM	1	0	21.49	21.61	21.44		
10	64QAM	1	25	21.50	21.62	21.54	22	2
10	64QAM	1	49	21.67	21.60	21.44		
10	64QAM	25	0	20.63	20.72	20.57		
10	64QAM	25	12	20.52	20.67	20.66	21	3
10	64QAM	25	25	20.66	20.60	20.46		
10	256QAM	1	0	20.63	20.67	20.46		
10	256QAM	1	25	18.65	18.71	18.68	19	5
10	256QAM	1	49	18.41	18.59	18.49		
10	256QAM	1	99	18.60	18.68	18.54		
10	256QAM	25	0	18.66	18.67	18.48		
10	256QAM	25	12	18.49	18.60	18.50	19	5
10	256QAM	25	25	18.35	18.52	18.39		
10	256QAM	50	0	18.45	18.45	18.44		
Channel				42115	42090	43005		
Frequency (MHz)				3462.5	3500	3547.5		
5	QPSK	1	0	23.77	23.71	23.74		
5	QPSK	1	12	23.69	23.68	23.67	24	0
5	QPSK	1	24	23.67	23.62	23.63		
5	QPSK	12	0	22.63	22.69	22.58		
5	QPSK	12	7	22.61	22.68	22.63	23	1
5	QPSK	12	13	22.52	22.55	22.45		
5	QPSK	25	0	22.58	22.61	22.43		
5	16QAM	1	0	22.47	22.54	22.49	23	1
5	16QAM	1	12	22.40	22.60	22.45		
5	16QAM	1	24	22.52	22.52	22.35		
5	16QAM	12	0	21.59	21.71	21.66		
5	16QAM	12	7	21.45	21.62	21.64	22	2
5	16QAM	12	13	21.55	21.59	21.48		
5	16QAM	25	0	21.59	21.68	21.47		
5	64QAM	1	0	21.48	21.50	21.49		
5	64QAM	1	12	21.49	21.63	21.44	22	2
5	64QAM	1	24	21.62	21.53	21.39		
5	64QAM	12	0	20.58	20.71	20.58		
5	64QAM	12	7	20.61	20.65	20.60	21	3
5	64QAM	12	13	20.67	20.63	20.53		
5	64QAM	25	0	20.62	20.64	20.45		
5	256QAM	1	0	18.60	18.69	18.51	19	5
5	256QAM	1	12	18.39	18.59	18.50		
5	256QAM	1	24	18.59	18.65	18.59		
5	256QAM	12	0	18.47	18.68	18.51		
5	256QAM	12	7	18.67	18.52	18.50	19	5
5	256QAM	12	13	18.34	18.58	18.40		
5	256QAM	25	0	18.49	18.52	18.34		



Band 42 Part 27Q Ant 8

Channel	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mide Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				4240	4260	4280		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	23.44	23.47	23.38		
20	QPSK	1	49	23.33	23.37	23.29	24	0
20	QPSK	1	99	23.32	23.34	23.35		
20	QPSK	50	0	22.39	22.41	22.35		
20	QPSK	50	24	22.29	22.30	22.33		
20	QPSK	50	50	22.26	22.28	22.25	23	1
20	QPSK	100	0	22.29	22.30	22.21		
20	16QAM	1	0	22.35	22.34	22.22		
20	16QAM	1	49	22.19	22.19	22.30	23	1
20	16QAM	1	99	22.12	22.16	22.10		
20	16QAM	50	0	21.34	21.38	21.39		
20	16QAM	50	24	21.25	21.28	21.39	22	2
20	16QAM	50	50	21.21	21.33	21.27		
20	16QAM	100	0	21.21	21.37	21.18		
20	64QAM	1	0	21.35	21.33	21.20		
20	64QAM	1	49	21.19	21.23	21.33	22	2
20	64QAM	1	99	21.08	21.16	21.24		
20	64QAM	50	0	20.33	20.36	20.33		
20	64QAM	50	24	20.31	20.32	20.36		
20	64QAM	50	50	20.23	20.28	20.20	21	3
20	64QAM	100	0	20.34	20.38	20.26		
20	256QAM	1	0	18.43	18.40	18.33		
20	256QAM	1	49	18.26	18.33	18.33	19	5
20	256QAM	1	99	18.24	18.23	18.25		
20	256QAM	50	0	18.28	18.32	18.18		
20	256QAM	50	24	18.33	18.39	18.24	19	5
20	256QAM	50	50	18.16	18.23	18.26		
20	256QAM	100	0	18.12	18.12	18.22		
Channel				42165	42360	42515		
Frequency (MHz)				3475.5	3500	3525.5		
15	QPSK	1	0	23.31	23.40	23.27		
15	QPSK	1	37	23.20	23.32	23.22	24	0
15	QPSK	1	74	23.29	23.33	23.25		
15	QPSK	36	0	22.25	22.37	22.21	23	1
15	QPSK	36	20	22.25	22.25	22.28		
15	QPSK	36	39	22.17	22.25	22.13		
15	QPSK	75	0	22.24	22.29	22.14		
15	16QAM	1	0	22.32	22.25	22.13		
15	16QAM	1	37	22.12	22.08	22.17	23	1
15	16QAM	1	74	22.05	22.10	22.16		
15	16QAM	36	0	21.22	21.36	21.26		
15	16QAM	36	20	21.17	21.24	21.30	22	2
15	16QAM	36	39	21.17	21.19	21.24		
15	16QAM	75	0	21.19	21.30	21.13		
15	16QAM	1	0	21.31	21.23	21.12		
15	16QAM	1	37	21.14	21.10	21.21	22	2
15	64QAM	1	74	21.02	21.07	21.11		
15	64QAM	36	0	20.20	20.22	20.30		
15	64QAM	36	20	20.25	20.25	20.23	21	3
15	64QAM	36	39	20.18	20.22	20.08		
15	64QAM	75	0	20.20	20.31	20.18		
15	256QAM	1	0	18.38	18.31	18.28		
15	256QAM	1	37	18.19	18.06	18.25	19	5
15	256QAM	1	74	18.13	18.14	18.18		
15	256QAM	36	0	18.18	18.28	18.11		
15	256QAM	36	20	18.22	18.31	18.12	19	5
15	256QAM	36	39	18.12	18.12	18.16		
15	256QAM	75	0	18.02	18.06	18.12		
Channel				42165	42360	42515		
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	23.41	23.40	23.35		
10	QPSK	1	25	23.28	23.29	23.23	24	0
10	QPSK	1	49	23.22	23.22	23.27		
10	QPSK	25	0	22.26	22.37	22.24	23	1
10	QPSK	25	12	22.20	22.23	22.30		
10	QPSK	25	25	22.20	22.17	22.20		
10	QPSK	50	0	22.19	22.25	22.08		
10	16QAM	1	0	22.29	22.21	22.10		
10	16QAM	1	25	22.12	22.06	22.20	23	1
10	16QAM	1	49	22.05	22.05	22.16		
10	16QAM	25	0	21.27	21.28	21.28		
10	16QAM	25	12	21.12	21.24	21.31	22	2
10	16QAM	25	25	21.16	21.25	21.25		
10	16QAM	50	0	21.18	21.08	21.07		
10	64QAM	1	0	21.23	21.25	21.12		
10	64QAM	1	25	21.09	21.12	21.20	22	2
10	64QAM	1	49	21.00	21.05	21.17		
10	64QAM	25	0	20.29	20.23	20.22		
10	64QAM	25	12	20.23	20.22	20.26	21	3
10	64QAM	25	25	20.13	20.19	20.16		
10	256QAM	1	0	20.32	20.31	20.15		
10	256QAM	1	25	18.36	18.33	18.28	19	5
10	256QAM	1	49	18.13	18.20	18.25		
10	256QAM	25	0	18.06	18.06	18.15		
10	256QAM	25	12	18.20	18.31	18.16	19	5
10	256QAM	25	25	18.05	18.11	18.21		
10	256QAM	50	0	18.05	18.05	18.15		
Channel				42115	42300	42505		
Frequency (MHz)				3452.5	3500	3547.5		
5	QPSK	1	0	23.40	23.34	23.26		
5	QPSK	1	12	23.27	23.34	23.26	24	0
5	QPSK	1	24	23.28	23.25	23.28		
5	QPSK	12	0	22.33	22.28	22.26		
5	QPSK	12	7	22.21	22.17	22.30	23	1
5	QPSK	12	13	22.17	22.14	22.14		
5	QPSK	25	0	22.27	22.24	22.14		
5	16QAM	1	0	22.22	22.29	22.17	23	1
5	16QAM	1	12	22.10	22.07	22.27		
5	16QAM	1	24	22.05	22.04	22.11		
5	16QAM	12	0	21.21	21.33	21.31		
5	16QAM	12	7	21.14	21.23	21.37	22	2
5	16QAM	12	13	21.10	21.20	21.25		
5	16QAM	25	0	21.27	21.27	21.16		
5	64QAM	1	0	21.24	21.27	21.17		
5	64QAM	1	12	21.12	21.11	21.27	22	2
5	64QAM	1	24	20.39	21.14	21.16		
5	64QAM	12	0	20.31	20.29	20.26		
5	64QAM	12	7	20.23	20.26	20.23	21	3
5	64QAM	12	13	20.15	20.25	20.15		
5	64QAM	25	0	20.20	20.34	20.15		
5	256QAM	1	0	18.39	18.34	18.30		
5	256QAM	1	12	18.21	18.24	18.30	19	5
5	256QAM	1	24	18.15	18.20	18.18		
5	256QAM	12	0	18.23	18.27	18.13		
5	256QAM	12	7	18.28	18.32	18.10		
5	256QAM	12	13	18.14	18.17	18.16	19	5
5	256QAM	25	0	18.03	18.00	18.16		



Reduced Power Mode for ECI 2

GSM850 Ant 0 ECI2		Burst Average Power (dBm)			Frame Average Power (dBm)			Tune-up	
TX Channel	158	168	251	Limit	178	189	251	Limit	Ch. Data
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)	> 0.5
GPRS # Tx slots	27.25	27.32	27.29	29.00	24.25	24.32	24.29	26.00	0.07

GSM1900 Ant 0 ECI2		Burst Average Power (dBm)			Frame Average Power (dBm)			Tune-up	
TX Channel	912	891	913	Limit	912	891	913	Limit	Ch. Data
Frequency (MHz)	1824.5	1880	1909.5	(dBm)	1824.5	1880	1909.5	(dBm)	> 0.5
GPRS # Tx slots	23.82	23.87	23.85	25.00	20.62	20.87	20.85	22.00	0.05

Band	WCDMA I Ant 0 ECI2			WCDMA IV Ant 0 ECI2			WCDMA V Ant 0 ECI2			WCDMA I	WCDMA IV	WCDMA V
	TX Channel	9662	9460	9538	1912	1418	1513	4192	4162			
Channel	9662	9500	9538	1912	1937	1938	1728	4307	4307	4406	Ch. Data	
Frequency (MHz)	1824.4	1880	1909.5	1712.4	1722.5	1732.4	1732.4	326.5	334.8	346.5	> 0.5	
3GPP Ref #9	RW-12-Kbps	22.01	22.10	22.08	23.00	22.01	22.15	22.13	23.00	24.18	0.09	

Band 2 Ant 0 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)	QPSK	1	0	22.01	22.05	22.10	24	0		

Band 4 Ant 0 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)	QPSK	1	0	20.66	20.75	20.80	24	0		

Band 66 Ant 0 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)	QPSK	1	0	22.24	22.25	22.33	24	0		

Band 7 Ant 0 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)	QPSK	1	0	23.10	23.15	23.20	25	0		

Band 38 Ant 0 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)	QPSK	1	0	23.55	23.53	23.50	25	0		

Band 41 Ant 0 ECI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)	QPSK	1	0	23.32	23.32	23.45	23.43	23.35	25	0

Band 41 HPUE Ant 0 ECI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)	QPSK	1	0	25.33	25.33	25.30	25.20	25.32	28	0



Band 5 Ant 0 EC12										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.97	22.97	22.97	24	0		
10	QPSK	1	25	22.92	23.03	22.90	24	0		
10	QPSK	1	49	23.02	23.09	22.87	24	0		
10	QPSK	25	0	21.99	22.01	21.95	23	1		
10	QPSK	25	25	21.84	21.99	21.93	23	1		
10	QPSK	25	25	21.94	21.97	21.95	23	1		
10	QPSK	50	0	21.95	21.99	21.92	23	1		
10	16QAM	1	0	21.90	21.91	21.91	23	1		
10	16QAM	1	25	20.76	20.95	20.87	22	2		
10	16QAM	1	49	21.87	21.88	21.79	22	2		
10	16QAM	25	0	21.03	21.03	20.94	22	2		
10	16QAM	25	12	20.86	20.97	20.85	22	2		
10	16QAM	25	25	20.91	21.02	20.94	22	2		
10	16QAM	50	0	20.87	21.08	20.98	22	2		
10	16QAM	1	0	20.83	21.03	20.79	22	2		
10	16QAM	1	25	20.76	20.96	20.87	22	2		
10	16QAM	1	49	20.79	20.84	20.77	22	2		
10	16QAM	25	0	19.93	19.99	20.00	21	3		
10	16QAM	25	12	19.93	19.97	19.94	21	3		
10	16QAM	25	25	19.85	19.97	19.90	21	3		
10	16QAM	50	0	19.99	20.01	19.95	21	3		
10	256QAM	1	0	17.92	18.00	17.98	19	5		
10	256QAM	1	25	17.86	17.97	17.91	19	5		
10	256QAM	1	49	17.87	17.97	17.82	19	5		
10	256QAM	25	0	18.04	17.98	17.92	19	5		
10	256QAM	25	12	17.82	17.96	17.90	19	5		
10	256QAM	25	25	17.80	17.82	17.82	19	5		
10	256QAM	50	0	17.88	17.87	17.76	19	5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.01	23.05	22.84	24	0		
5	QPSK	1	24	22.94	23.06	22.81	24	0		
5	QPSK	12	0	21.87	21.95	21.81	23	1		
5	QPSK	12	7	21.73	21.82	21.84	23	1		
5	QPSK	25	0	20.84	20.97	20.80	22	2		
5	QPSK	25	0	21.82	21.98	21.86	23	1		
5	16QAM	1	0	21.79	21.87	21.87	23	1		
5	16QAM	1	12	21.60	21.82	21.68	23	1		
5	16QAM	1	24	21.60	21.86	21.67	23	1		
5	16QAM	12	0	21.01	21.00	20.98	22	2		
5	16QAM	12	7	20.76	20.94	20.75	22	2		
5	16QAM	12	13	20.85	20.96	20.75	22	2		
5	16QAM	25	0	19.87	19.97	19.80	21	3		
5	16QAM	1	0	20.79	20.96	20.67	22	2		
5	16QAM	1	12	20.62	20.76	20.61	22	2		
5	16QAM	1	24	20.69	20.73	20.61	22	2		
5	16QAM	12	0	19.87	19.97	19.86	21	3		
5	16QAM	12	7	19.85	19.88	19.91	21	3		
5	16QAM	12	13	19.79	19.88	19.77	21	3		
5	16QAM	25	0	19.80	19.91	19.85	21	3		
5	256QAM	1	0	17.90	17.92	17.94	19	5		
5	256QAM	1	12	17.80	17.93	17.89	19	5		
5	256QAM	1	24	17.75	18.00	17.83	19	5		
5	256QAM	12	0	17.82	17.96	17.82	19	5		
5	256QAM	12	7	17.76	17.89	17.83	19	5		
5	256QAM	12	13	17.76	17.70	17.71	19	5		
5	256QAM	25	0	17.86	17.90	17.67	19	5		
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.97	22.98	22.87	24	0		
3	QPSK	1	8	22.88	22.93	22.81	24	0		
3	QPSK	1	14	22.97	23.01	22.79	24	0		
3	QPSK	8	0	21.94	21.95	21.91	23	1		
3	QPSK	8	4	21.81	21.86	21.90	23	1		
3	QPSK	8	7	21.91	21.87	21.86	23	1		
3	QPSK	15	0	21.87	21.91	21.78	23	1		
3	16QAM	1	0	21.82	21.90	21.82	23	1		
3	16QAM	1	8	21.65	21.88	21.67	23	1		
3	16QAM	1	14	21.76	21.77	21.69	23	1		
3	16QAM	8	0	20.85	20.97	20.86	22	2		
3	16QAM	8	4	20.74	20.88	20.76	22	2		
3	16QAM	8	7	20.83	20.94	20.78	22	2		
3	16QAM	15	0	20.85	20.95	20.95	22	2		
3	16QAM	1	0	20.69	20.94	20.70	22	2		
3	16QAM	1	8	20.72	20.75	20.55	22	2		
3	16QAM	1	14	20.69	20.75	20.64	22	2		
3	16QAM	8	0	19.89	19.95	19.94	21	3		
3	16QAM	8	4	19.89	19.94	19.92	21	3		
3	16QAM	8	7	19.81	19.91	19.80	21	3		
3	16QAM	15	0	19.88	19.90	19.93	21	3		
3	256QAM	1	0	17.86	17.98	17.94	19	5		
3	256QAM	1	8	17.87	17.84	17.81	19	5		
3	256QAM	1	14	17.84	17.97	17.80	19	5		
3	256QAM	8	0	17.99	17.89	17.87	19	5		
3	256QAM	8	4	17.70	17.88	17.77	19	5		
3	256QAM	8	7	17.69	17.77	17.73	19	5		
3	256QAM	15	0	17.81	17.86	17.72	19	5		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.04	22.95	22.91	24	0		
1.4	QPSK	1	3	22.82	22.99	22.95	24	0		
1.4	QPSK	1	5	22.89	23.03	22.87	24	0		
1.4	QPSK	3	0	22.07	22.90	22.77	23	1		
1.4	QPSK	3	3	22.67	22.99	22.81	23	1		
1.4	QPSK	3	3	22.80	22.80	22.82	23	1		
1.4	QPSK	6	0	21.85	21.93	21.88	23	1		
1.4	16QAM	1	0	21.85	21.93	21.82	23	1		
1.4	16QAM	3	1	21.73	21.80	21.79	23	1		
1.4	16QAM	3	3	21.55	21.81	21.67	23	1		
1.4	16QAM	6	0	20.85	21.03	20.95	22	2		
1.4	16QAM	1	0	20.73	20.85	20.82	22	2		
1.4	16QAM	1	3	20.69	20.79	20.53	22	2		
1.4	16QAM	1	5	20.60	20.82	20.78	22	2		
1.4	16QAM	3	0	20.67	20.95	20.79	22	2		
1.4	16QAM	3	1	20.68	20.87	20.65	22	2		
1.4	16QAM	3	3	20.58	20.52	20.40	21	3		
1.4	16QAM	6	0	19.83	19.89	19.87	21	3		
1.4	256QAM	1	0	17.95	17.82	17.87	19	5		
1.4	256QAM	1	3	17.79	17.79	17.78	19	5		
1.4	256QAM	1	5	17.80	17.86	17.69	19	5		
1.4	256QAM	3	0	17.91	17.88	17.94	19	5		
1.4	256QAM	3	1	17.90	17.83	17.89	19	5		
1.4	256QAM	3	3	17.65	17.78	17.72	19	5		
1.4	256QAM	6	0	17.72	17.80	17.81	19	5		

Band 12 Ant 0 EC12										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.00	23.05	23.00	24	0		
10	QPSK	1	25	22.98	23.01	22.98	24	0		
10	QPSK	1	49	23.02	23.00	23.03	24	0		
10	QPSK	25	0	21.92	21.95	21.95	23	1		
10	QPSK	25	25	21.85	21.94	21.90	23	1		
10	QPSK	50	0	21.87	21.91	21.87	23	1		
10	16QAM	1	0	21.83	21.86	21.82	23	1		
10	16QAM	1	25	21.77	21.82	21.73	23	1		
10	16QAM	1	49	21.77	21.88	21.81	23	1		
10	16QAM	25	0	20.93	20.94	21.00	22	2		
10	16QAM	25	12	20.80	20.80	20.86	22	2		
10	16QAM	25	25	20.92	20.94	20.87	22	2		
10	16QAM	50	0	20.88	20.95	20.85	22	2		
10	16QAM	1	0	20.88	20.89	20.83	22	2		
10	16QAM	1	25	20.85	20.79	20.76	22	2		
10	16QAM	1	49	20.78	20.85	20.87	2			



Band 26 Ant 0 ECI2

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				811.3	831.5	841.5		
15	QPSK	1	0	23.12	23.15	23.03	24	0
15	QPSK	1	37	22.99	23.09	23.04		
15	QPSK	1	74	23.08	23.12	22.95		
15	QPSK	36	0	22.06	22.10	22.08	23	1
15	QPSK	36	20	21.96	22.02	21.97		
15	QPSK	36	39	21.99	22.03	21.98		
15	QPSK	75	0	22.02	22.06	22.03		
15	16QAM	1	0	21.98	22.03	21.96	23	1
15	16QAM	1	37	21.87	21.96	21.85		
15	16QAM	1	74	21.90	21.96	21.86		
15	16QAM	36	0	21.11	21.07	21.04		
15	16QAM	36	20	20.91	21.00	20.98	22	2
15	16QAM	36	39	20.95	21.09	20.95		
15	16QAM	75	0	21.01	21.12	21.06		
15	64QAM	1	0	20.83	21.08	20.83	22	2
15	64QAM	1	37	20.88	20.92	20.80		
15	64QAM	1	74	20.87	20.97	20.88		
15	64QAM	36	0	20.04	20.07	20.03	21	3
15	64QAM	36	20	20.01	20.07	20.03		
15	64QAM	36	39	19.98	20.08	19.97		
15	64QAM	75	0	20.01	20.04	20.05		
15	256QAM	1	0	18.05	18.04	18.06	19	5
15	256QAM	1	37	18.02	18.01	17.99		
15	256QAM	1	74	18.01	18.09	17.92		
15	256QAM	36	0	18.07	18.02	18.04	19	5
15	256QAM	36	20	17.95	18.04	18.03		
15	256QAM	36	39	17.85	17.96	17.91		
15	256QAM	75	0	17.91	18.01	17.91		
Channel								
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.99	23.05	23.03	24	0
10	QPSK	1	25	22.90	23.05	22.99		
10	QPSK	1	49	23.01	23.05	22.83		
10	QPSK	25	0	21.99	22.02	21.97	23	1
10	QPSK	25	12	21.85	21.88	21.89		
10	QPSK	25	24	21.83	21.85	21.80		
10	QPSK	50	0	21.97	21.95	21.95		
10	16QAM	1	0	21.92	21.98	21.93	23	1
10	16QAM	1	25	21.84	21.86	21.74		
10	16QAM	1	49	21.83	21.89	21.75		
10	16QAM	25	0	21.03	21.04	20.90	22	2
10	16QAM	25	12	20.77	20.88	20.83		
10	16QAM	25	24	20.67	20.86	20.84		
10	16QAM	50	0	20.97	21.05	21.03		
10	64QAM	1	0	20.87	21.00	20.85	22	2
10	64QAM	1	25	20.76	20.89	20.74		
10	64QAM	1	49	20.84	20.85	20.74		
10	64QAM	25	0	19.85	19.85	19.85	21	3
10	64QAM	25	12	19.89	20.01	19.81		
10	64QAM	25	24	19.85	19.97	19.82		
10	256QAM	1	0	18.99	18.95	20.83	19	5
10	256QAM	1	25	17.93	17.91	17.93		
10	256QAM	1	49	17.97	18.00	17.79		
10	256QAM	25	0	17.86	17.94	17.84	19	5
10	256QAM	25	12	17.81	18.02	17.90		
10	256QAM	25	24	17.83	17.91	17.78		
10	256QAM	50	0	17.80	17.93	17.75		
Channel								
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	23.00	23.09	23.04	24	0
5	QPSK	1	12	22.96	23.03	22.96		
5	QPSK	1	24	22.96	22.99	22.84		
5	QPSK	12	0	22.03	22.02	21.99	23	1
5	QPSK	12	7	21.86	21.93	21.92		
5	QPSK	12	13	21.96	21.93	21.88		
5	QPSK	25	0	21.88	21.86	21.91	23	1
5	16QAM	1	0	21.86	21.93	21.88		
5	16QAM	1	12	21.75	21.92	21.74	22	2
5	16QAM	1	24	21.83	21.85	21.83		
5	16QAM	12	0	21.96	20.97	20.95		
5	16QAM	12	7	20.89	20.87	20.87		
5	16QAM	12	13	20.89	20.88	20.87		
5	16QAM	25	0	20.95	21.01	20.95	22	2
5	64QAM	1	0	20.90	21.03	20.89	21	3
5	64QAM	1	12	20.83	20.83	20.68		
5	64QAM	1	24	20.75	20.92	20.83		
5	64QAM	12	0	19.99	19.95	20.01		
5	64QAM	12	7	19.89	20.05	20.00		
5	64QAM	12	13	19.91	19.96	19.86		
5	256QAM	1	0	19.93	19.94	19.92	19	5
5	256QAM	1	12	17.92	17.92	17.96		
5	256QAM	1	24	17.84	18.04	17.89		
5	256QAM	12	0	17.84	17.97	17.95		
5	256QAM	12	7	17.85	17.88	18.00		
5	256QAM	12	13	17.72	17.85	17.84		
5	256QAM	25	0	17.84	17.95	17.70		
Channel								
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	23.03	23.08	22.93	24	0
3	QPSK	1	8	22.93	23.03	22.91		
3	QPSK	1	14	23.06	23.09	22.90		
3	QPSK	8	0	22.02	22.01	21.97	23	1
3	QPSK	8	4	21.82	21.95	21.82		
3	QPSK	8	7	21.85	22.01	21.87		
3	QPSK	15	0	21.95	21.95	22.00	23	1
3	16QAM	1	0	21.87	21.90	21.90		
3	16QAM	1	8	21.85	21.88	21.77	22	2
3	16QAM	1	14	21.77	21.90	21.76		
3	16QAM	8	0	21.01	20.93	20.94		
3	16QAM	8	4	20.88	20.89	20.87		
3	16QAM	8	7	20.91	21.06	20.83		
3	16QAM	15	0	20.94	21.07	20.83		
3	64QAM	1	0	20.80	21.04	20.81	22	2
3	64QAM	1	8	20.76	20.91	20.75		
3	64QAM	1	14	20.82	20.86	20.74		
3	64QAM	8	0	19.96	20.02	19.98	21	3
3	64QAM	8	4	19.89	19.95	19.97		
3	64QAM	8	7	19.91	19.98	19.94		
3	256QAM	1	0	17.97	17.81	18.02	19	5
3	256QAM	1	8	18.00	17.96	17.95		
3	256QAM	1	14	17.90	18.01	17.84		
3	256QAM	8	0	18.00	17.90	17.94		
3	256QAM	8	4	17.87	18.01	17.95		
3	256QAM	8	7	17.76	17.92	17.89		
3	256QAM	15	0	17.80	17.88	17.68		
Channel								
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	23.09	23.03	22.98	24	0
1.4	QPSK	1	3	22.97	23.07	23.01		
1.4	QPSK	1	5	23.01	23.07	22.91		
1.4	QPSK	3	0	23.03	23.01	22.90	23	1
1.4	QPSK	3	1	22.81	23.05	22.92		
1.4	QPSK	3	3	22.91	22.98	22.88		
1.4	QPSK	6	0	21.89	22.00	22.00	22	2
1.4	16QAM	1	0	21.94	22.00	21.90		
1.4	16QAM	1	3	21.75	21.91	21.83	23	1
1.4	16QAM	1	5	21.87	21.87	21.75		
1.4	16QAM	3	0	21.77	21.90	21.87		
1.4	16QAM	3	1	21.85	21.89	21.84		
1.4	16QAM	3	3	21.65	21.83	21.71	22	2
1.4	16QAM	6	0	20.88	21.07	21.01		
1.4	64QAM	1	0	20.82	20.97	20.88		
1.4	64QAM	1	3	20.74	20.94	20.83	22	2
1.4	64QAM	1	5	20.74	20.94	20.83		
1.4	64QAM	3	0	20.77	20.99	20.89		
1.4	64QAM	3	1	20.74	20.95	20.78		
1.4	64QAM	3	3	20.79	20.73	20.59		
1.4	256QAM	1	0	18.87	18.97	18.86	21	3
1.4	256QAM	1	3	17.92	17.89	17.87		
1.4	256QAM	1	5	17.95	18.01	17.82	19	5
1.4	256QAM	3	0	18.02	17.93	18.02		
1.4	256QAM	3	1	17.92	17.93	17.95		
1.4	256QAM	3	3	17.72	17.84	17.77		
1.4	256QAM	6	0	17.81	17.94	17.69	19	5



DSMB80 Ant 1 EC12		Burst Average Power (dBm)			Frame Average Power (dBm)			Tune-up	Ch.
TX Channel	138	145	261	Limit	128	159	255	Limit	Delta
Frequency (MHz)	844.2	836.4	848.8	(dBm)	804.2	836.4	848.8		> 0.5
GPRS 4 Tx slots	27.38	27.43	27.39	29.00	24.38	24.43	24.39	26.00	0.06

Band	WCDMA III Ant 1 EC12			WCDMA IV Ant 1 EC12			WCDMA V Ant 1 EC12			WCDMA II	WCDMA IV	WCDMA V		
TX Channel	9262	9400	9538	Tune-up	1312	1413	1513	Tune-up	4152	4162	4203	Tune-up	Ch.	
Ch. Channel	9402	9400	9406	Limit	1519	1506	1518	Limit	2497	2487	2496	Limit	Delta	
Frequency (MHz)	1852.4	1860	1859.6	(dBm)	1712.4	1732.6	1762.6		826.4	836.4	846.6		> 0.5	
3GPP Rel 99	RWC-12.2Kbps	21.23	21.48	21.35	23.00	21.37	21.48	21.40	23.00	24.19	24.25	24.13	25.00	0.25
														0.11
														0.12

Band 2 Ant 1 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)				18700	18900	19100			
20	QPSK	1	0	22.48	22.59	22.56	24	0	

Band 4 Ant 1 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)				20050	20175	20300			
20	QPSK	1	0	22.42	22.55	22.54	24	0	

Band 7 Ant 1 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)				20460	21190	21350			
20	QPSK	1	0	22.12	22.13	22.13	24	0	

Band 38 Ant 1 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)				2365	2395	2410			
20	QPSK	1	0	22.02	22.02	22.02	25	0	

Band 41 HPUE Ant 1 EC12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40165	40520	41055	41490		
20	QPSK	1	0	25.07	25.13	25.10	25.10	25.06	27	0

Band 66 Ant 1 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)				132072	132322	132572			
20	QPSK	1	0	22.62	22.74	22.65	24	0	

Band 41 Ant 1 EC12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				2306	2349.5	2393	2436.5	2480		
20	QPSK	1	0	23.11	22.98	23.10	23.10	22.99	25	0



Band 5 Ant 1 EC12										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.70	22.70	22.70	24	0		
10	QPSK	1	25	22.56	22.70	22.54				
10	QPSK	1	49	22.51	22.67	22.66				
10	QPSK	25	0	21.69	21.74	21.66	23	1		
10	QPSK	25	25	21.63	21.83	21.68				
10	QPSK	25	25	21.49	21.66	21.48				
10	QPSK	50	0	21.65	21.70	21.55				
10	16QAM	1	0	21.68	21.58	21.53	23	1		
10	16QAM	1	25	21.59	21.47	21.53				
10	16QAM	1	49	21.47	21.60	21.45				
10	16QAM	25	0	20.68	20.75	20.66				
10	16QAM	25	12	20.67	20.71	20.60				
10	16QAM	25	25	20.52	20.69	20.54	22	2		
10	16QAM	50	0	20.66	20.64	20.45				
10	64QAM	1	0	20.63	20.66	20.45	22	2		
10	64QAM	1	25	20.61	20.54	20.52				
10	64QAM	1	49	20.43	20.69	20.48				
10	64QAM	25	0	19.74	19.67	19.66				
10	64QAM	25	12	19.59	19.62	19.70				
10	64QAM	25	25	19.61	19.57	19.44	21	3		
10	64QAM	50	0	19.59	19.70	19.52				
10	256QAM	1	0	17.76	17.69	17.65				
10	256QAM	1	25	17.65	17.69	17.56	19	5		
10	256QAM	1	49	17.61	17.61	17.52				
10	256QAM	25	0	17.61	17.75	17.54				
10	256QAM	25	12	17.64	17.61	17.52	19	5		
10	256QAM	25	25	17.60	17.59	17.59				
10	256QAM	50	0	17.49	17.44	17.42				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.65	22.85	22.59	24	0		
5	QPSK	1	24	22.43	22.58	22.56				
5	QPSK	12	0	21.60	21.68	21.64	23	1		
5	QPSK	12	7	21.54	21.55	21.57				
5	QPSK	25	0	20.61	20.58	20.52	23	1		
5	QPSK	25	0	21.53	21.61	21.50				
5	16QAM	1	0	21.56	21.51	21.43	23	1		
5	16QAM	1	12	21.56	21.35	21.44				
5	16QAM	12	24	21.35	21.51	21.47				
5	16QAM	12	0	20.50	20.65	20.50	22	2		
5	16QAM	12	7	20.48	20.68	20.48				
5	16QAM	12	13	20.44	20.66	20.42				
5	16QAM	25	0	20.51	20.59	20.56				
5	64QAM	1	0	20.51	20.58	20.42	22	2		
5	64QAM	1	12	20.51	20.41	20.49				
5	64QAM	1	24	20.36	20.63	20.46				
5	64QAM	12	0	19.67	19.57	19.53	21	3		
5	64QAM	12	7	19.45	19.50	19.67				
5	64QAM	12	13	19.48	19.45	19.38				
5	16QAM	25	0	19.61	19.64	19.49	19	5		
5	256QAM	1	0	17.69	17.56	17.58				
5	256QAM	1	12	17.63	17.56	17.47				
5	256QAM	1	24	17.40	17.55	17.44				
5	256QAM	12	0	17.41	17.61	17.46	19	5		
5	256QAM	12	7	17.57	17.48	17.44				
5	256QAM	12	13	17.48	17.50	17.54				
5	256QAM	25	0	17.26	17.67	17.36				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.67	22.61	22.66	24	0		
3	QPSK	1	8	22.43	22.61	22.41				
3	QPSK	1	14	22.46	22.54	22.63				
3	QPSK	8	0	21.63	21.71	21.58	23	1		
3	QPSK	8	4	21.51	21.50	21.54				
3	QPSK	8	7	21.39	21.57	21.37				
3	16QAM	1	0	21.63	21.66	21.44	23	1		
3	16QAM	1	0	21.54	21.45	21.46				
3	16QAM	1	8	21.54	21.44	21.41				
3	16QAM	1	14	21.45	21.57	21.35				
3	16QAM	8	0	20.56	20.66	20.53	22	2		
3	16QAM	8	4	20.47	20.62	20.47				
3	16QAM	8	7	20.48	20.62	20.42				
3	16QAM	15	0	20.64	20.58	20.55				
3	64QAM	1	0	20.51	20.56	20.40	22	2		
3	64QAM	1	8	20.58	20.44	20.41				
3	64QAM	1	14	20.38	20.60	20.37				
3	64QAM	8	0	19.62	19.64	19.63	21	3		
3	64QAM	8	4	19.62	19.50	19.67				
3	64QAM	8	7	19.47	19.50	19.31				
3	64QAM	15	0	19.48	19.61	19.40				
3	256QAM	1	0	17.50	17.62	17.61	19	5		
3	256QAM	1	8	17.58	17.60	17.51				
3	256QAM	1	14	17.44	17.59	17.46				
3	256QAM	8	0	17.54	17.70	17.46				
3	256QAM	8	4	17.48	17.48	17.43	19	5		
3	256QAM	8	7	17.57	17.52	17.50				
3	256QAM	15	0	17.38	17.55	17.29				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.57	22.59	22.61	24	0		
1.4	QPSK	1	3	22.46	22.58	22.54				
1.4	QPSK	1	5	22.46	22.61	22.50				
1.4	QPSK	3	0	22.41	22.63	22.52				
1.4	QPSK	3	3	22.40	22.46	22.46				
1.4	QPSK	3	3	22.36	22.54	22.43				
1.4	QPSK	6	0	21.49	21.57	21.44	23	1		
1.4	16QAM	1	0	21.53	21.60	21.53	23	1		
1.4	16QAM	1	0	21.40	21.53	21.48				
1.4	16QAM	1	5	21.49	21.57	21.45				
1.4	16QAM	3	0	21.36	21.56	21.37				
1.4	16QAM	3	3	21.34	21.42	21.48				
1.4	16QAM	6	0	20.62	20.62	20.57	22	2		
1.4	64QAM	1	0	20.57	20.59	20.32				
1.4	64QAM	1	3	20.48	20.53	20.48	22	2		
1.4	64QAM	1	5	20.44	20.60	20.42				
1.4	64QAM	3	0	20.50	20.65	20.45				
1.4	64QAM	3	1	20.50	20.46	20.30				
1.4	64QAM	3	3	20.42	20.35	20.35	21	3		
1.4	64QAM	6	0	19.47	19.51	19.53				
1.4	256QAM	1	0	17.73	17.56	17.67				
1.4	256QAM	1	3	17.58	17.56	17.51				
1.4	256QAM	1	5	17.62	17.56	17.50	19	5		
1.4	256QAM	3	0	17.45	17.63	17.42				
1.4	256QAM	3	1	17.50	17.56	17.41				
1.4	256QAM	3	1	17.63	17.50	17.52				
1.4	256QAM	6	0	17.44	17.46	17.32	19	5		

Band 12 Ant 1 EC12										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.62	22.75	22.66	24	0		
10	QPSK	1	25	22.56	22.70	22.51				
10	QPSK	1	49	22.62	22.63	22.63				
10	QPSK	25	0	21.55	21.68	21.52	23	1		
10	QPSK	25	25	21.52	21.45	21.42				
10	QPSK	50	0	21.46	21.51	21.42				
10	16QAM	1	0	21.45	21.48	21.47	23	1		
10	16QAM	1	25	21.31	21.42	21.30				
10	16QAM	1	49	21.40	21.38	21.29				
10	16QAM	25	0	20.58	20.57	20.53				
10	16QAM	25	12	20.50	20.42	20.48	22	2		
10	16QAM	25	25	20.50	20.43	20.42				
10	16QAM	50	0	20.43	20.49	20.40				
10	64QAM	1	0	20.45	20.53	20.46	22	2		
10	64QAM	1	25	20.34	20.38	20.35				
10	64QAM	1	49	20.42	20.35	20.29				
10	64QAM	25	0	19.68	19.56	19.53				
10	64QAM	25	12	19.63	19.52	19.42	21	3		
10	64QAM	25	25							



Band 26 Ant 1 ECI2

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				821.3	831.5	841.5		
15	QPSK	1	0	22.73	22.74	22.75	24	0
15	QPSK	1	37	22.59	22.75	22.62		
15	QPSK	1	74	22.62	22.73	22.71		
15	QPSK	36	0	21.74	21.76	21.72	23	1
15	QPSK	36	20	21.71	21.68	21.68		
15	QPSK	36	39	21.60	21.71	21.58		
15	QPSK	75	0	21.67	21.73	21.62	23	1
15	16QAM	1	0	21.68	21.69	21.58		
15	16QAM	1	37	21.63	21.57	21.64		
15	16QAM	1	74	21.57	21.66	21.55	22	2
15	16QAM	36	0	20.79	20.76	20.73		
15	16QAM	36	20	20.68	20.72	20.62		
15	16QAM	36	39	20.63	20.74	20.55	21	3
15	16QAM	75	0	20.70	20.72	20.68		
15	64QAM	1	0	20.68	20.70	20.53		
15	64QAM	1	37	20.56	20.61	20.62	21	3
15	64QAM	1	74	20.52	20.72	20.57		
15	64QAM	36	0	19.77	19.70	19.76		
15	64QAM	36	20	19.68	19.64	19.72	19	5
15	256QAM	1	74	17.58	17.68	17.59		
15	256QAM	36	0	17.67	17.77	17.62		
15	256QAM	36	20	17.69	17.71	17.54	19	5
15	256QAM	36	39	17.63	17.61	17.59		
15	256QAM	75	0	17.59	17.66	17.60		
Channel								
Frequency (MHz)				267.60	268.65	269.60		
10	QPSK	1	0	22.70	22.72	22.64	24	0
10	QPSK	1	25	22.48	22.69	22.58		
10	QPSK	1	49	22.51	22.66	22.61		
10	QPSK	25	0	21.69	21.75	21.70	23	1
10	QPSK	25	12	21.64	21.68	21.62		
10	QPSK	25	24	21.55	21.66	21.54		
10	QPSK	50	0	21.58	21.68	21.51	23	1
10	16QAM	1	0	21.66	21.65	21.46		
10	16QAM	1	25	21.61	21.46	21.57		
10	16QAM	1	49	21.50	21.63	21.44	22	2
10	16QAM	25	0	20.75	20.75	20.72		
10	16QAM	25	12	20.62	20.68	20.56		
10	16QAM	25	24	20.58	20.71	20.47	21	3
10	16QAM	50	0	20.67	20.70	20.65		
10	64QAM	1	0	20.67	20.61	20.42		
10	64QAM	1	25	20.63	20.51	20.52	21	3
10	64QAM	1	49	20.48	20.61	20.50		
10	64QAM	25	0	19.65	19.69	19.75		
10	64QAM	25	12	19.58	19.63	19.65	19	5
10	64QAM	25	24	19.62	19.60	19.43		
10	64QAM	50	0	19.63	19.68	19.59		
10	256QAM	1	0	17.75	17.69	17.61	19	5
10	256QAM	1	25	17.66	17.61	17.56		
10	256QAM	1	49	17.51	17.66	17.48		
10	256QAM	25	0	17.56	17.71	17.61	19	5
10	256QAM	25	12	17.60	17.67	17.53		
10	256QAM	25	24	17.52	17.58	17.57		
10	256QAM	50	0	17.57	17.54	17.39		
Channel								
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.66	22.74	22.63	24	0
5	QPSK	1	12	22.53	22.73	22.54		
5	QPSK	1	24	22.60	22.70	22.61		
5	QPSK	12	0	21.70	21.69	21.62	23	1
5	QPSK	12	7	21.69	21.66	21.58		
5	QPSK	12	13	21.59	21.61	21.52		
5	QPSK	25	0	21.66	21.64	21.51	23	1
5	16QAM	1	0	21.61	21.63	21.53		
5	16QAM	1	12	21.59	21.54	21.53		
5	16QAM	1	24	21.51	21.59	21.49	22	2
5	16QAM	12	0	20.69	20.76	20.69		
5	16QAM	12	7	20.65	20.66	20.58		
5	16QAM	12	13	20.61	20.69	20.46	22	2
5	16QAM	25	0	20.66	20.64	20.58		
5	64QAM	1	0	20.65	20.59	20.46		
5	64QAM	1	12	20.65	20.60	20.55	21	3
5	64QAM	1	24	20.45	20.71	20.48		
5	64QAM	12	0	19.72	19.60	19.67		
5	64QAM	12	7	19.68	19.63	19.67	19	5
5	64QAM	12	13	19.62	19.66	19.52		
5	64QAM	25	0	19.65	19.61	19.57		
5	256QAM	1	0	17.73	17.76	17.65	19	5
5	256QAM	1	12	17.67	17.68	17.59		
5	256QAM	1	24	17.51	17.64	17.47		
5	256QAM	12	0	17.60	17.74	17.51	19	5
5	256QAM	12	7	17.57	17.61	17.44		
5	256QAM	12	13	17.54	17.56	17.56		
5	256QAM	25	0	17.56	17.59	17.41		
Channel								
Frequency (MHz)				267.05	268.65	270.25		
3	QPSK	1	0	22.69	22.72	22.65	24	0
3	QPSK	1	8	22.51	22.63	22.51		
3	QPSK	1	14	22.57	22.64	22.59		
3	QPSK	8	0	21.71	21.69	21.62	23	1
3	QPSK	8	4	21.65	21.68	21.68		
3	QPSK	8	7	21.49	21.67	21.48		
3	QPSK	15	0	21.57	21.64	21.52	23	1
3	16QAM	1	0	21.58	21.62	21.46		
3	16QAM	1	8	21.55	21.48	21.54		
3	16QAM	1	14	21.51	21.60	21.55	22	2
3	16QAM	8	0	20.77	20.74	20.72		
3	16QAM	8	4	20.62	20.72	20.61		
3	16QAM	8	7	20.57	20.72	20.49	22	2
3	64QAM	1	0	20.63	20.66	20.46		
3	64QAM	1	8	20.63	20.55	20.52		
3	64QAM	1	14	20.46	20.71	20.49	21	3
3	64QAM	8	0	19.74	19.69	19.66		
3	64QAM	8	4	19.66	19.58	19.66		
3	64QAM	8	7	19.52	19.67	19.43	19	5
3	64QAM	15	0	19.54	19.65	19.57		
3	256QAM	1	0	17.74	17.67	17.70		
3	256QAM	1	9	17.63	17.58	17.55	19	5
3	256QAM	1	14	17.46	17.66	17.59		
3	256QAM	8	0	17.65	17.74	17.60		
3	256QAM	8	4	17.61	17.68	17.46	19	5
3	256QAM	8	7	17.54	17.61	17.57		
3	256QAM	15	0	17.48	17.63	17.44		
Channel								
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.62	22.73	22.66	24	0
1.4	QPSK	1	3	22.59	22.65	22.58		
1.4	QPSK	1	5	22.52	22.70	22.60		
1.4	QPSK	3	0	22.51	22.66	22.58	23	1
1.4	QPSK	3	1	22.45	22.55	22.57		
1.4	QPSK	3	3	22.47	22.64	22.49		
1.4	QPSK	6	0	21.55	21.69	21.53	23	1
1.4	16QAM	1	0	21.61	21.68	21.57		
1.4	16QAM	1	3	21.54	21.57	21.58		
1.4	16QAM	1	5	21.57	21.64	21.54	23	1
1.4	16QAM	3	0	21.45	21.63	21.45		
1.4	16QAM	3	1	21.50	21.67	21.55		
1.4	16QAM	3	3	21.44	21.46	21.52	22	2
1.4	16QAM	6	0	20.67	20.71	20.59		
1.4	64QAM	1	0	20.66	20.64	20.44		
1.4	64QAM	1	3	20.59	20.58	20.59	22	2
1.4	64QAM	1	5	20.49	20.63	20.49		
1.4	64QAM	3	0	20.61	20.68	20.48		
1.4	64QAM	3	1	20.58	20.57	20.41	21	3
1.4	64QAM	3	3	20.54	20.48	20.49		
1.4	64QAM	6	0	19.56	19.63	19.62		
1.4	256QAM	1	0	17.76	17.66	17.69	19	5
1.4	256QAM	1	3	17.67	17.65	17.57		
1.4	256QAM	1	5	17.58	17.62	17.57		
1.4	256QAM	3	0	17.59	17.68	17.54	19	5
1.4	256QAM	3	1	17.58	17.63	17.45		
1.4	256QAM	3	3	17.59	17.59	17.58		
1.4	256QAM	6	0	17.63	17.62	17.45		



GSM 1900 Ant 2 EC12		Burst Average Power (dBm)			Frame Average Power (dBm)			Tune-up	Ch.
TX Channel	912	915	918	Limit	912	915	918	Delta	
Frequency (MHz)	1860.2	1860	1909.8		1860.2	1860	1909.8	> 0.5	
GPRS 4 Tx slots	17.72	17.76	17.70	19.00	14.72	14.76	14.70	16.00	

Band		WCDMA II Ant 2 EC12			WCDMA IV Ant 2 EC12			Tune-up	WCDMA II	WCDMA IV
TX Channel	9262	9400	9538	Tune-up	1312	1413	1513	Limit	Ch	
Ch Channel	9402	9400	9496	Limit	1512	1506	1518	Delta	> 0.5	
Frequency (MHz)	1862.4	1860	1909.6		1712.4	1732.6	1762.6			
3GPP Rel 99	RVC-12.2Kbps	14.35	14.38	14.32	15.90	15.36	15.39	15.32	16.00	0.06

Band 2 Ant 2 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)				18700	18900	19100			
20	QPSK	1	0	15.75	15.77	15.73	12.1	0	

Band 4 Ant 2 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)				20050	20175	20300			
20	QPSK	1	0	12.28	12.25	12.25	13.5	0	

Band 7 Ant 2 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)				20460	21190	21350			
20	QPSK	1	0	23.15	23.22	23.22	15.4	0	

Band 38 Ant 2 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)				2963	2995	2910			
20	QPSK	1	0	13.43	13.22	13.23	15.5	0	

Band 41 HPUE Ant 2 EC12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40165	40520	41055	41490		
20	QPSK	1	0	15.28	15.73	15.73	15.59	15.72	17.1	0

Band 66 Ant 2 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)				132072	132322	132572			
20	QPSK	1	0	12.25	12.35	12.32	13.5	0	

Band 41 Ant 2 EC12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40165	40520	41055	41490		
20	QPSK	1	0	14.52	14.59	14.53	14.53	14.54	15.5	0



Band	WCDMA R10 Rev 3 ECI2			WCDMA R10 Rev 3 ECI2			Tune-up Limit (dBm)	WCDMA R10 Ch Delta	WCDMA R10		
	TX Channel	9662	9660	9638	1312	1413				1513	
Rx Channel	9662	9660	9638	1312	1413	1513					
Frequency (MHz)	1812.4	1810	1808.6	1312.4	1312.6	1312.4					
3GPP Rel 99	RMC-T2-2Kbps	14.93	14.95	14.91	15.10	15.52	15.56	15.54	16.70	0.04	0.04

Band 2 Ant 3 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									
				18700	18800	19100			
Frequency (MHz)									
				1863	1880	1903			
20	QPSK	1	0	15.20	15.25	15.13	16.7	0	

Band 4 Ant 3 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									
				20050	20150	20300			
Frequency (MHz)									
				1720	1732.5	1745			
20	QPSK	1	0	14.25	14.30	14.00	15.5	0	

Band 7 Ant 3 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									
				20600	21100	21300			
Frequency (MHz)									
				2310	2335	2360			
20	QPSK	1	0	15.18	15.25	15.21	16.3	0	

Band 38 Ant 3 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									
				37600	38000	38150			
Frequency (MHz)									
				3590	3595	3593			
20	QPSK	1	0	18.00	18.04	17.90	18.7	0	

Band 41 HPUE Ant 3 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									
				39700	40100	40200	41000	41400	
Frequency (MHz)									
				2265	2265.5	2263	2335.5	2380	
20	QPSK	1	0	19.28	19.34	19.35	19.30	20.30	0

Band 66 Ant 3 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									
				32072	32220	32572			
Frequency (MHz)									
				1720	1745	1770			
20	QPSK	1	0	14.10	14.10	14.12	15.5	0	

Band 41 Ant 3 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										
				39700	40100	40200	41000	41400		
Frequency (MHz)										
				2260	2265.5	2263	2335.5	2380		
20	QPSK	1	0	18.04	18.00	18.10	18.06	18.02	18.7	0



Band 42 Part 27Q Ant 4 EC12

Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				42160	42600	42990	15.4	0		
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	14.35	14.40	14.38	15.4	0		
20	QPSK	1	49	14.24	14.28	14.31				
20	QPSK	1	98	14.32	14.28	14.26				
20	QPSK	50	0	14.32	14.37	14.30				
20	QPSK	50	24	14.32	14.30	14.33				
20	QPSK	50	50	14.34	14.27	14.27				
20	QPSK	100	0	14.30	14.35	14.28				
20	16QAM	1	0	14.29	14.34	14.34				
20	16QAM	1	49	14.16	14.24	14.20				
20	16QAM	1	98	14.28	14.23	14.23				
20	16QAM	50	0	14.28	14.30	14.18	15.4	0		
20	16QAM	50	24	14.19	14.17	14.21				
20	16QAM	50	50	14.17	14.31	14.26				
20	16QAM	100	0	14.21	14.26	14.17				
20	64QAM	1	0	14.26	14.34	14.29				
20	64QAM	1	49	14.15	14.18	14.17				
20	64QAM	1	98	14.27	14.20	14.27				
20	64QAM	50	0	14.27	14.30	14.17				
20	64QAM	50	24	14.21	14.25	14.28				
20	64QAM	50	50	14.13	14.18	14.19				
20	256QAM	1	0	14.17	14.28	14.18	15.4	0		
20	256QAM	1	49	14.10	14.23	14.25				
20	256QAM	1	98	14.24	14.27	14.26				
20	256QAM	50	0	14.26	14.26	14.22				
20	256QAM	50	24	14.30	14.24	14.25				
20	256QAM	50	50	14.16	14.19	14.16				
20	256QAM	100	0	14.27	14.26	14.19				
Channel				42165	42600	43015			15.4	0
Frequency (MHz)				3475.5	3500	3542.5				
15	QPSK	1	0	14.24	14.29	14.33			15.4	0
15	QPSK	1	37	14.12	14.15	14.20				
15	QPSK	1	74	14.21	14.25	14.25				
15	QPSK	36	0	14.27	14.29	14.20				
15	QPSK	36	20	14.18	14.21	14.24				
15	QPSK	36	39	14.11	14.24	14.15				
15	QPSK	75	0	14.26	14.25	14.21				
15	16QAM	1	0	14.22	14.28	14.25				
15	16QAM	1	37	14.11	14.12	14.13				
15	16QAM	1	74	14.25	14.11	14.15				
15	16QAM	36	0	14.25	14.25	14.12	15.4	0		
15	16QAM	36	20	14.08	14.08	14.10				
15	16QAM	36	39	14.06	13.99	14.10				
15	16QAM	75	0	14.16	14.24	14.12				
15	64QAM	1	0	14.15	14.24	14.26				
15	64QAM	1	37	14.04	14.08	14.05				
15	64QAM	1	74	14.23	14.08	14.18				
15	64QAM	36	0	14.23	14.20	14.05				
15	64QAM	36	20	14.09	14.15	14.06				
15	64QAM	36	39	14.04	14.13	14.10				
15	64QAM	75	0	14.08	14.19	14.05	15.4	0		
15	256QAM	1	0	14.20	14.20	14.17				
15	256QAM	1	37	14.05	14.12	14.21				
15	256QAM	1	74	14.21	14.15	14.15				
15	256QAM	36	0	14.23	14.21	14.13				
15	256QAM	36	20	14.26	14.21	14.16				
15	256QAM	36	39	14.03	14.11	14.11				
15	256QAM	75	0	14.24	14.24	14.15				
Channel				42160	42600	43000			15.4	0
Frequency (MHz)				3465	3500	3540				
10	QPSK	1	0	14.23	14.30	14.34	15.4	0		
10	QPSK	1	25	14.15	14.19	14.25				
10	QPSK	1	49	14.19	14.22	14.20				
10	QPSK	25	0	14.19	14.33	14.26				
10	QPSK	25	12	14.21	14.18	14.29				
10	QPSK	25	25	14.14	14.18	14.18				
10	QPSK	50	0	14.20	14.27	14.27				
10	16QAM	1	0	14.27	14.31	14.24				
10	16QAM	1	25	14.07	14.21	14.16				
10	16QAM	1	49	14.17	14.15	14.19				
10	16QAM	25	0	14.23	14.18	14.08	15.4	0		
10	16QAM	25	12	14.13	14.11	14.17				
10	16QAM	25	25	14.13	14.08	14.16				
10	16QAM	50	0	14.18	14.12	14.11				
10	64QAM	1	0	14.20	14.25	14.20				
10	64QAM	1	25	14.10	14.07	14.14				
10	64QAM	1	49	14.20	14.14	14.14				
10	64QAM	25	0	14.20	14.24	14.06				
10	64QAM	25	12	14.13	14.13	14.18				
10	64QAM	25	25	14.08	14.15	14.09				
10	256QAM	1	0	14.18	14.23	14.20	15.4	0		
10	256QAM	1	25	14.05	14.13	14.18				
10	256QAM	1	49	14.12	14.22	14.24				
10	256QAM	25	0	14.18	14.18	14.13				
10	256QAM	25	12	14.26	14.19	14.13				
10	256QAM	25	25	14.03	14.09	14.04				
10	256QAM	50	0	14.14	14.21	14.14				
Channel				42115	42600	43000			15.4	0
Frequency (MHz)				3462.5	3500	3547.5				
5	QPSK	1	0	14.28	14.36	14.32			15.4	0
5	QPSK	1	12	14.12	14.22	14.20				
5	QPSK	1	24	14.24	14.16	14.25				
5	QPSK	12	0	14.29	14.26	14.16				
5	QPSK	12	7	14.28	14.26	14.19				
5	QPSK	12	13	14.14	14.18	14.23				
5	QPSK	25	0	14.18	14.32	14.22				
5	16QAM	1	0	14.16	14.31	14.31				
5	16QAM	1	12	14.08	14.16	14.13				
5	16QAM	1	24	14.19	14.14	14.20				
5	16QAM	12	0	14.15	14.25	14.13	15.4	0		
5	16QAM	12	7	14.15	14.11	14.16				
5	16QAM	12	13	14.03	14.02	14.17				
5	16QAM	25	0	14.12	14.12	14.15				
5	64QAM	1	0	14.21	14.25	14.19				
5	64QAM	1	12	14.02	14.07	14.14				
5	64QAM	1	24	14.17	14.15	14.14				
5	64QAM	12	0	14.17	14.23	14.09				
5	64QAM	12	7	14.16	14.18	14.19				
5	64QAM	12	13	14.07	14.15	14.12				
5	256QAM	1	0	14.14	14.16	14.05	15.4	0		
5	256QAM	1	0	14.28	14.19	14.17				
5	256QAM	1	12	14.00	14.15	14.15				
5	256QAM	1	24	14.14	14.16	14.17				
5	256QAM	12	0	14.17	14.16	14.10				
5	256QAM	12	7	14.26	14.19	14.22				
5	256QAM	12	13	14.07	14.06	14.11				
5	256QAM	25	0	14.22	14.21	14.10				



Band 42 Part 27Q Ant 6 EC12

Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				42160	42900	42990				
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	15.16	15.20	15.15	16.5	0		
20	QPSK	1	49	15.03	15.06	15.07				
20	QPSK	1	98	15.03	15.06	15.08				
20	QPSK	50	0	15.11	15.10	15.11				
20	QPSK	50	24	15.14	15.10	15.10				
20	QPSK	50	50	15.07	15.11	15.13				
20	QPSK	100	0	15.04	15.10	15.09				
20	16QAM	1	0	15.10	15.18	15.11				
20	16QAM	1	49	14.90	15.00	15.03				
20	16QAM	1	98	14.90	14.97	15.03				
20	16QAM	50	0	15.09	15.11	15.05	16.5	0		
20	16QAM	50	24	15.03	15.06	15.05				
20	16QAM	50	50	14.94	15.06	15.06				
20	16QAM	100	0	15.01	15.04	15.05				
20	64QAM	1	0	15.06	15.14	15.06				
20	64QAM	1	49	14.98	15.03	14.99				
20	64QAM	1	98	14.90	15.05	14.99				
20	64QAM	50	0	15.08	15.02	15.01				
20	64QAM	50	24	15.02	15.02	15.01				
20	64QAM	50	50	14.90	14.98	15.05				
20	64QAM	100	0	14.94	15.02	14.99	16.5	0		
20	256QAM	1	0	15.08	15.09	15.12				
20	256QAM	1	49	14.91	14.97	14.98				
20	256QAM	1	98	14.93	14.97	15.02				
20	256QAM	50	0	15.02	15.09	14.97				
20	256QAM	50	24	15.04	15.06	15.03				
20	256QAM	50	50	14.98	14.99	15.11				
20	256QAM	100	0	14.92	15.07	15.03				
Channel				42165	42900	43015				
Frequency (MHz)				3475.5	3500	3542.5				
15	QPSK	1	0	15.03	15.18	15.07	16.5	0		
15	QPSK	1	37	14.92	15.03	14.96				
15	QPSK	1	74	14.96	15.05	14.98				
15	QPSK	36	0	14.98	15.10	15.08				
15	QPSK	36	20	15.11	15.07	14.99				
15	QPSK	36	39	14.98	15.08	15.07				
15	QPSK	75	0	15.01	15.01	15.02				
15	16QAM	1	0	14.89	15.10	15.06				
15	16QAM	1	37	14.79	14.96	14.91				
15	16QAM	1	74	14.87	14.83	14.93				
15	16QAM	36	0	14.98	15.07	14.93	16.5	0		
15	16QAM	36	20	14.98	14.98	14.92				
15	16QAM	36	39	14.84	14.97	15.02				
15	16QAM	75	0	14.89	15.02	14.97				
15	64QAM	1	0	14.96	15.10	14.91				
15	64QAM	1	37	14.86	14.90	14.89				
15	64QAM	1	74	14.78	14.84	14.92				
15	64QAM	36	0	15.03	14.91	14.96				
15	64QAM	36	20	14.98	14.99	14.95				
15	64QAM	36	39	14.89	14.89	14.95				
15	64QAM	75	0	14.87	14.88	14.97	16.5	0		
15	256QAM	1	0	14.96	15.05	15.01				
15	256QAM	1	37	14.86	14.94	14.94				
15	256QAM	1	74	14.82	14.86	14.92				
15	256QAM	36	0	14.92	15.02	14.87				
15	256QAM	36	20	15.01	15.02	14.90				
15	256QAM	36	39	14.89	14.93	15.03				
15	256QAM	75	0	14.84	15.03	14.98				
Channel				42160	42900	43000				
Frequency (MHz)				3465	3500	3545				
10	QPSK	1	0	15.13	15.13	15.01	16.5	0		
10	QPSK	1	25	14.92	14.97	15.03				
10	QPSK	1	49	15.01	15.00	15.05				
10	QPSK	25	0	15.03	15.06	15.06				
10	QPSK	25	12	15.05	14.98	14.99				
10	QPSK	25	25	15.02	15.06	15.03				
10	QPSK	50	0	14.93	14.97	15.03				
10	16QAM	1	0	15.03	15.12	15.05				
10	16QAM	1	25	14.88	14.91	14.89				
10	16QAM	1	49	14.88	14.89	14.89				
10	16QAM	25	0	14.96	15.06	14.91	16.5	0		
10	16QAM	25	12	14.99	14.97	14.95				
10	16QAM	25	25	14.85	15.00	15.00				
10	16QAM	50	0	14.98	14.91	14.95				
10	64QAM	1	0	14.97	15.05	15.03				
10	64QAM	1	25	14.95	14.97	14.86				
10	64QAM	1	49	14.76	14.80	14.85				
10	64QAM	25	0	15.06	14.99	14.93				
10	64QAM	25	12	14.93	14.98	14.92				
10	64QAM	25	25	14.90	14.88	15.00				
10	64QAM	50	0	14.89	14.99	14.96	16.5	0		
10	256QAM	1	0	14.97	15.06	15.06				
10	256QAM	1	25	14.80	14.86	14.91				
10	256QAM	1	49	14.82	14.93	14.90				
10	256QAM	25	0	14.96	14.98	14.93				
10	256QAM	25	12	14.86	15.00	14.92				
10	256QAM	25	25	14.93	14.88	14.97				
10	256QAM	50	0	14.88	14.98	14.91				
Channel				42115	42900	43005				
Frequency (MHz)				3492.5	3500	3547.5				
5	QPSK	1	0	15.07	15.07	15.11	16.5	0		
5	QPSK	1	12	14.89	14.93	14.97				
5	QPSK	1	24	14.99	15.02	15.04				
5	QPSK	12	0	15.07	15.13	15.03				
5	QPSK	12	7	15.12	14.98	14.99				
5	QPSK	12	13	15.02	14.98	15.05				
5	QPSK	25	0	14.97	15.06	14.99				
5	16QAM	1	0	15.03	15.08	15.02				
5	16QAM	1	12	14.81	14.95	15.00				
5	16QAM	1	24	14.78	14.85	14.89				
5	16QAM	12	0	15.03	15.03	15.00	16.5	0		
5	16QAM	12	7	14.88	14.99	14.95				
5	16QAM	12	13	14.92	14.98	14.95				
5	16QAM	25	0	14.96	14.95	15.03				
5	64QAM	1	0	14.93	15.05	14.97				
5	64QAM	1	12	14.89	14.92	14.97				
5	64QAM	1	24	14.81	15.02	14.93				
5	64QAM	12	0	14.94	14.91	14.94				
5	64QAM	12	7	14.89	14.98	14.88				
5	64QAM	12	13	14.86	14.91	15.01				
5	64QAM	25	0	14.80	14.97	14.89	16.5	0		
5	256QAM	1	0	15.05	14.96	14.99				
5	256QAM	1	12	14.82	14.88	14.95				
5	256QAM	1	24	14.86	14.91	14.95				
5	256QAM	12	0	14.98	15.00	14.89				
5	256QAM	12	7	15.01	14.96	14.97				
5	256QAM	12	13	14.92	14.86	14.99				
5	256QAM	25	0	14.87	15.01	14.93				



Band 42 Part 27Q Ant 3 ECI2

Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				42160	42900	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	15.65	15.70	15.83		
20	QPSK	1	49	15.63	15.64	15.56	16.7	0
20	QPSK	1	99	15.67	15.65	15.48		
20	QPSK	50	0	15.82	15.89	15.58		
20	QPSK	50	24	15.67	15.96	15.52		
20	QPSK	50	50	15.61	15.80	15.56	16.7	0
20	QPSK	100	0	15.61	15.64	15.53		
20	16QAM	1	0	15.58	15.89	15.51		
20	16QAM	1	49	15.42	15.61	15.52	16.7	0
20	16QAM	1	99	15.46	15.56	15.41		
20	16QAM	50	0	15.83	15.85	15.45		
20	16QAM	50	24	15.45	15.43	15.43	16.7	0
20	16QAM	50	50	15.53	15.46	15.29		
20	16QAM	100	0	15.83	15.56	15.47		
20	64QAM	1	0	15.63	15.63	15.60		
20	64QAM	1	49	15.39	15.59	15.43	16.7	0
20	64QAM	1	99	15.45	15.56	15.30		
20	64QAM	50	0	15.82	15.85	15.51		
20	64QAM	50	24	15.45	15.43	15.45		
20	64QAM	50	50	15.53	15.56	15.46	16.7	0
20	64QAM	100	0	15.84	15.60	15.44		
20	256QAM	1	0	15.62	15.87	15.53		
20	256QAM	1	49	15.45	15.60	15.46	16.7	0
20	256QAM	1	99	15.49	15.52	15.43		
20	256QAM	50	0	15.82	15.88	15.47		
20	256QAM	50	24	15.43	15.50	15.50	16.7	0
20	256QAM	50	50	15.58	15.53	15.54		
20	256QAM	100	0	15.80	15.60	15.41		
Channel				42165	42900	43015		
Frequency (MHz)				3457.5	3500	3542.5		
15	QPSK	1	0	15.67	15.67	15.54		
15	QPSK	1	37	15.50	15.51	15.48	16.7	0
15	QPSK	1	74	15.49	15.59	15.36		
15	QPSK	36	0	15.67	15.63	15.52		
15	QPSK	36	20	15.62	15.47	15.43	16.7	0
15	QPSK	36	39	15.53	15.50	15.43		
15	QPSK	78	0	15.54	15.52	15.50		
15	16QAM	1	0	15.63	15.55	15.49		
15	16QAM	1	37	15.35	15.55	15.47	16.7	0
15	16QAM	1	74	15.37	15.43	15.30		
15	16QAM	36	0	15.40	15.46	15.33		
15	16QAM	36	20	15.40	15.33	15.36	16.7	0
15	16QAM	36	39	15.45	15.47	15.38		
15	16QAM	78	0	15.46	15.52	15.40		
15	64QAM	1	0	15.53	15.56	15.50		
15	64QAM	1	37	15.26	15.46	15.38	16.7	0
15	64QAM	1	74	15.42	15.55	15.31		
15	64QAM	36	0	15.47	15.48	15.41		
15	64QAM	36	20	15.37	15.33	15.36	16.7	0
15	64QAM	36	39	15.42	15.42	15.43		
15	64QAM	78	0	15.82	15.85	15.31		
15	256QAM	1	0	15.84	15.47	15.48		
15	256QAM	1	37	15.43	15.47	15.38	16.7	0
15	256QAM	1	74	15.45	15.46	15.30		
15	256QAM	36	0	15.42	15.53	15.41		
15	256QAM	36	20	15.37	15.45	15.46	16.7	0
15	256QAM	36	39	15.44	15.47	15.48		
15	256QAM	78	0	15.47	15.48	15.29		
Channel				42160	42900	43000		
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	15.63	15.60	15.55		
10	QPSK	1	25	15.49	15.62	15.46	16.7	0
10	QPSK	1	49	15.47	15.51	15.36		
10	QPSK	25	0	15.53	15.57	15.48		
10	QPSK	25	12	15.47	15.45	15.47	16.7	0
10	QPSK	25	25	15.67	15.48	15.52		
10	QPSK	50	0	15.83	15.87	15.45		
10	16QAM	1	0	15.50	15.48	15.49		
10	16QAM	1	25	15.30	15.56	15.40	16.7	0
10	16QAM	1	49	15.41	15.46	15.30		
10	16QAM	25	0	15.41	15.43	15.36		
10	16QAM	25	12	15.33	15.32	15.38	16.7	0
10	16QAM	25	25	15.59	15.42	15.47		
10	16QAM	50	0	15.44	15.43	15.36		
10	64QAM	1	0	15.82	15.82	15.48		
10	64QAM	1	25	15.33	15.53	15.35	16.7	0
10	64QAM	1	49	15.40	15.86	15.26		
10	64QAM	25	0	15.41	15.47	15.43		
10	64QAM	25	12	15.36	15.36	15.35	16.7	0
10	64QAM	25	25	15.41	15.43	15.39		
10	256QAM	1	0	15.44	15.53	15.35		
10	256QAM	1	25	15.42	15.46	15.33	16.7	0
10	256QAM	1	49	15.36	15.38	15.31		
10	256QAM	25	0	15.46	15.56	15.35		
10	256QAM	25	12	15.36	15.37	15.36	16.7	0
10	256QAM	25	25	15.44	15.44	15.43		
10	256QAM	50	0	15.47	15.55	15.36		
Channel				42115	42900	43000		
Frequency (MHz)				3462.5	3500	3547.5		
5	QPSK	1	0	15.88	15.80	15.57		
5	QPSK	1	12	15.47	15.51	15.42	16.7	0
5	QPSK	1	24	15.85	15.82	15.46		
5	QPSK	12	0	15.83	15.61	15.46		
5	QPSK	12	7	15.48	15.51	15.40	16.7	0
5	QPSK	12	13	15.58	15.57	15.52		
5	QPSK	25	0	15.82	15.82	15.46		
5	16QAM	1	0	15.85	15.48	15.44	16.7	0
5	16QAM	1	12	15.31	15.57	15.41		
5	16QAM	1	24	15.42	15.44	15.34		
5	16QAM	12	0	15.42	15.47	15.35	16.7	0
5	16QAM	12	7	15.82	16.29	15.40		
5	16QAM	12	13	15.43	15.40	15.41		
5	16QAM	25	0	15.45	15.50	15.41		
5	64QAM	1	0	15.83	15.49	15.49		
5	64QAM	1	12	15.31	15.51	15.35	16.7	0
5	64QAM	1	24	15.30	15.55	15.28		
5	64QAM	12	0	15.40	15.46	15.41		
5	64QAM	12	7	15.52	15.49	15.33	16.7	0
5	64QAM	12	13	15.59	15.47	15.33		
5	64QAM	25	0	15.48	15.86	15.36		
5	256QAM	1	0	15.69	15.54	15.51		
5	256QAM	1	12	15.36	15.47	15.35	16.7	0
5	256QAM	1	24	15.35	15.49	15.41		
5	256QAM	12	0	15.46	15.47	15.45		
5	256QAM	12	7	15.57	15.36	15.43	16.7	0
5	256QAM	12	13	15.84	15.45	15.50		
5	256QAM	25	0	15.39	15.47	15.35		



Band 42 Part 27Q Ant 8 EC12

Channel	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)				4260	4260	4260		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	21.18	21.25	21.21		
20	QPSK	1	49	21.09	21.18	21.09	22.3	0
20	QPSK	1	99	21.09	21.11	21.14		
20	QPSK	50	0	21.14	21.22	21.12		
20	QPSK	50	24	21.05	21.12	21.16		
20	QPSK	50	50	21.16	21.14	21.08	22.3	0
20	QPSK	100	0	21.07	21.18	21.10		
20	16QAM	1	0	21.04	21.17	21.06		
20	16QAM	1	49	20.94	21.09	21.09	22.3	0
20	16QAM	1	99	21.10	21.06	20.97		
20	16QAM	50	0	20.78	20.82	20.72		
20	16QAM	50	24	20.72	20.81	20.84		
20	16QAM	50	50	20.77	20.76	20.70	22	0.3
20	16QAM	100	0	20.71	20.82	20.79		
20	64QAM	1	0	20.65	20.85	20.65		
20	64QAM	1	49	20.61	20.72	20.68	22	0.3
20	64QAM	1	99	20.74	20.76	20.84		
20	64QAM	50	0	19.82	19.94	19.82		
20	64QAM	50	24	19.81	19.80	19.88		
20	64QAM	50	50	19.80	19.87	19.80	21	1.3
20	64QAM	100	0	19.80	19.88	19.78		
20	256QAM	1	0	17.79	17.91	17.85		
20	256QAM	1	49	17.76	17.85	17.84	19	3.3
20	256QAM	1	99	17.86	17.90	17.78		
20	256QAM	50	0	17.76	17.91	17.75		
20	256QAM	50	24	17.70	17.86	17.72	19	3.3
20	256QAM	50	50	17.67	17.83	17.74		
20	256QAM	100	0	17.63	17.79	17.64		
Channel								
Frequency (MHz)				4265	4260	4305	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				347.5	3500	3542.5		
15	QPSK	1	0	21.03	21.14	21.17		
15	QPSK	1	37	21.07	21.06	21.06	22.3	0
15	QPSK	1	74	21.03	21.00	21.11		
15	QPSK	36	0	21.06	21.12	21.07		
15	QPSK	36	20	20.98	21.01	21.11	22.3	0
15	QPSK	36	39	21.11	21.09	21.03		
15	QPSK	75	0	20.98	21.05	20.99		
15	16QAM	1	0	20.80	21.09	21.02		
15	16QAM	1	37	20.82	21.00	21.00	22.3	0
15	16QAM	1	74	20.98	20.98	20.88		
15	16QAM	36	0	20.66	20.68	20.66		
15	16QAM	36	20	20.67	20.74	20.75	22	0.3
15	16QAM	36	39	20.74	20.72	20.62		
15	16QAM	75	0	20.81	20.76	20.73		
15	64QAM	1	0	20.51	20.72	20.63		
15	64QAM	1	37	20.45	20.59	20.55	22	0.3
15	64QAM	1	74	20.80	20.73	20.51		
15	64QAM	36	0	19.75	19.81	19.73		
15	64QAM	36	20	19.78	19.66	19.80	21	1.3
15	64QAM	36	39	19.76	19.74	19.69		
15	64QAM	75	0	19.75	19.79	19.72		
15	256QAM	1	0	17.72	17.82	17.80		
15	256QAM	1	37	17.64	17.72	17.74	19	3.3
15	256QAM	1	74	17.73	17.87	17.72		
15	256QAM	36	0	17.63	17.81	17.69		
15	256QAM	36	20	17.68	17.77	17.68	19	3.3
15	256QAM	36	39	17.64	17.75	17.71		
15	256QAM	75	0	17.75	17.72	17.58		
Channel								
Frequency (MHz)				4265	4260	4305	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	21.10	21.21	21.12		
10	QPSK	1	25	20.97	21.14	20.97	22.3	0
10	QPSK	1	49	20.98	21.03	21.06		
10	QPSK	25	0	21.06	21.09	21.04		
10	QPSK	25	12	20.92	21.04	21.13	22.3	0
10	QPSK	25	25	21.06	21.11	21.03		
10	QPSK	50	0	21.01	21.05	21.03		
10	16QAM	1	0	21.00	21.07	20.92		
10	16QAM	1	25	20.89	21.04	21.06	22.3	0
10	16QAM	1	49	20.97	21.01	20.93		
10	16QAM	25	0	20.73	20.69	20.63		
10	16QAM	25	12	20.61	20.79	20.74	22	0.3
10	16QAM	25	25	20.63	20.66	20.62		
10	16QAM	50	0	20.68	20.71	20.65		
10	64QAM	1	0	20.52	20.77	20.61		
10	64QAM	1	25	20.54	20.70	20.60	22	0.3
10	64QAM	1	49	20.61	20.63	20.56		
10	64QAM	25	0	19.71	19.80	19.70	21	1.3
10	64QAM	25	12	19.71	19.75	19.75		
10	64QAM	25	25	19.72	19.82	19.76		
10	256QAM	1	0	17.67	17.86	17.76		
10	256QAM	1	25	17.63	17.73	17.77	19	3.3
10	256QAM	1	49	17.79	17.86	17.74		
10	256QAM	25	0	17.66	17.81	17.72		
10	256QAM	25	12	17.66	17.79	17.50	19	3.3
10	256QAM	25	25	17.57	17.70	17.64		
10	256QAM	50	0	17.70	17.67	17.61		
Channel								
Frequency (MHz)				4215	4260	4305	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3502.5	3500	3547.5		
5	QPSK	1	0	21.04	21.18	21.15		
5	QPSK	1	12	21.04	21.10	21.03	22.3	0
5	QPSK	1	24	21.06	21.07	21.08		
5	QPSK	12	0	21.02	21.11	21.09		
5	QPSK	12	7	20.94	21.01	21.11	22.3	0
5	QPSK	12	13	21.05	21.00	20.96		
5	QPSK	25	0	21.04	21.14	21.05		
5	16QAM	1	0	20.95	21.10	20.94	22.3	0
5	16QAM	1	12	20.83	20.97	20.97		
5	16QAM	1	24	20.99	21.00	20.83		
5	16QAM	12	0	20.85	20.76	20.61		
5	16QAM	12	7	20.61	20.77	20.80	22	0.3
5	16QAM	12	13	20.75	20.75	20.60		
5	16QAM	25	0	20.58	20.79	20.67		
5	64QAM	1	0	20.62	20.83	20.60		
5	64QAM	1	12	20.65	20.76	20.60	22	0.3
5	64QAM	1	24	20.84	20.71	20.59		
5	64QAM	12	0	19.70	19.83	19.76		
5	64QAM	12	7	19.74	19.62	19.71	21	1.3
5	64QAM	12	13	19.77	19.78	19.73		
5	64QAM	25	0	19.68	19.82	19.74		
5	256QAM	1	0	17.68	17.67	17.62		
5	256QAM	1	12	17.72	17.81	17.80	19	3.3
5	256QAM	1	24	17.77	17.78	17.67		
5	256QAM	12	0	17.69	17.85	17.67		
5	256QAM	12	7	17.66	17.81	17.70	19	3.3
5	256QAM	12	13	17.60	17.80	17.68		
5	256QAM	25	0	17.71	17.74	17.62		



Reduced Power Mode for ECI 3

GSM1900 Ant 0 ECI3		Burst Average Power (dBm)			Tune-up Limit		Frame Average Power (dBm)			Tune-up Limit	
TX Channel	158	188	221	178	189	251	178	189	251	178	251
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	824.2	836.4	848.8	824.2	848.8
GPWS # Tx slots	27.25	27.32	27.29	29.00	24.25	24.32	24.29	24.29	24.29	24.29	26.00

GSM1900 Ant 0 ECI3		Burst Average Power (dBm)			Tune-up Limit		Frame Average Power (dBm)			Tune-up Limit	
TX Channel	912	891	913	912	961	913	912	961	913	912	961
Frequency (MHz)	1862.5	1860	1909.5	1862.5	1860	1909.5	1862.5	1860	1909.5	1862.5	1909.5
GPWS # Tx slots	23.82	23.87	23.85	25.00	20.62	20.87	20.85	20.85	20.85	20.85	22.00

Band	WCDMA II Ant 0 ECI3			WCDMA IV Ant 0 ECI3			WCDMA V Ant 0 ECI3					
	TX Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Limit (dBm)	MPR (dB)	TX Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Limit (dBm)	MPR (dB)
3GPP Rel 99	17.96	16.00	17.98	19.30	20.96	21.16	21.11	22.76	24.18	24.22	24.17	25.00

Band 2 Ant 0 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)		
20	QPSK	1	0	20.45	20.53	20.51	21.9	0		

Band 4 Ant 0 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)		
20	QPSK	1	0	20.45	20.53	20.51	22	0		

Band 7 Ant 0 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)		
20	QPSK	1	0	20.52	21.03	20.98	22.2	0		

Band 38 Ant 0 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)		
20	QPSK	1	0	21.53	21.25	21.25	23.2	0		

Band 66 Ant 0 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)		
20	QPSK	1	0	20.54	20.53	20.49	22	0		

Band 41 Ant 0 ECI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	0	21.63	21.62	22.02	22.01	21.91	23.2	0

Band 41 HPUE Ant 0 ECI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	0	23.40	23.33	23.42	23.31	23.30	24.8	0



Band 5 Ant 0 EC13										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.97	22.98	22.97	24	0		
10	QPSK	1	25	22.92	23.03	22.90	24	0		
10	QPSK	1	49	23.02	23.09	22.87	24	0		
10	QPSK	25	0	21.99	22.01	21.95	23	1		
10	QPSK	25	25	21.84	21.96	21.83	23	1		
10	QPSK	25	25	21.94	21.97	21.95	23	1		
10	QPSK	50	0	21.95	21.99	21.92	23	1		
10	16QAM	1	0	21.90	21.91	21.91	23	1		
10	16QAM	1	25	20.76	20.95	20.67	22	2		
10	16QAM	1	49	21.87	21.88	21.79	23	1		
10	16QAM	25	0	21.03	21.03	20.94	22	2		
10	16QAM	25	12	20.86	20.97	20.85	22	2		
10	16QAM	25	25	20.91	21.02	20.94	22	2		
10	16QAM	50	0	20.87	21.08	20.98	22	2		
10	16QAM	1	0	20.83	21.03	20.79	22	2		
10	16QAM	1	25	20.76	20.96	20.67	22	2		
10	16QAM	1	49	20.79	20.84	20.77	22	2		
10	16QAM	25	0	19.93	19.99	20.00	21	3		
10	16QAM	25	12	19.93	19.97	19.94	21	3		
10	16QAM	25	25	19.85	19.97	19.80	21	3		
10	16QAM	50	0	19.99	20.01	19.95	21	3		
10	256QAM	1	0	17.92	18.00	17.98	19	5		
10	256QAM	1	25	17.86	17.97	17.91	19	5		
10	256QAM	1	49	17.87	17.96	17.82	19	5		
10	256QAM	25	0	18.04	17.98	17.92	19	5		
10	256QAM	25	12	17.82	17.96	17.90	19	5		
10	256QAM	25	25	17.80	17.82	17.82	19	5		
10	256QAM	50	0	17.88	17.87	17.76	19	5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.01	23.05	22.84	24	0		
5	QPSK	1	24	22.94	23.06	22.81	24	0		
5	QPSK	12	0	21.87	21.95	21.81	23	1		
5	QPSK	12	7	21.73	21.82	21.84	23	1		
5	QPSK	25	0	20.84	20.97	20.80	22	2		
5	QPSK	25	0	21.82	21.96	21.86	23	1		
5	16QAM	1	0	21.79	21.87	21.87	23	1		
5	16QAM	1	12	21.60	21.82	21.68	23	1		
5	16QAM	1	24	21.60	21.86	21.67	23	1		
5	16QAM	12	0	21.01	21.00	20.98	22	2		
5	16QAM	12	7	20.76	20.94	20.75	22	2		
5	16QAM	12	13	20.85	20.96	20.75	22	2		
5	16QAM	25	0	20.84	20.97	20.80	22	2		
5	16QAM	1	0	20.79	20.96	20.67	22	2		
5	16QAM	1	12	20.62	20.76	20.61	22	2		
5	16QAM	1	24	20.69	20.73	20.61	22	2		
5	16QAM	12	0	19.87	19.97	19.86	21	3		
5	16QAM	12	7	19.85	19.88	19.91	21	3		
5	16QAM	12	13	19.79	19.88	19.77	21	3		
5	16QAM	25	0	19.80	19.91	19.85	21	3		
5	256QAM	1	0	17.90	17.92	17.94	19	5		
5	256QAM	1	12	17.90	17.93	17.89	19	5		
5	256QAM	1	24	17.75	18.00	17.83	19	5		
5	256QAM	12	0	17.82	17.99	17.82	19	5		
5	256QAM	12	7	17.76	17.89	17.83	19	5		
5	256QAM	12	13	17.76	17.70	17.71	19	5		
5	256QAM	25	0	17.86	17.90	17.67	19	5		
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.97	22.98	22.87	24	0		
3	QPSK	1	8	22.88	22.93	22.81	24	0		
3	QPSK	1	14	22.97	23.01	22.79	24	0		
3	QPSK	8	0	21.94	21.95	21.91	23	1		
3	QPSK	8	4	21.81	21.86	21.90	23	1		
3	QPSK	8	7	21.91	21.87	21.86	23	1		
3	QPSK	15	0	21.87	21.91	21.78	23	1		
3	16QAM	1	0	21.82	21.90	21.82	23	1		
3	16QAM	1	8	21.65	21.88	21.67	23	1		
3	16QAM	1	14	21.76	21.77	21.69	23	1		
3	16QAM	8	0	20.85	20.97	20.86	22	2		
3	16QAM	8	4	20.74	20.88	20.76	22	2		
3	16QAM	8	7	20.83	20.94	20.78	22	2		
3	16QAM	15	0	20.85	20.95	20.95	22	2		
3	16QAM	1	0	20.69	20.94	20.70	22	2		
3	16QAM	1	8	20.72	20.75	20.55	22	2		
3	16QAM	1	14	20.69	20.75	20.64	22	2		
3	16QAM	8	0	19.89	19.95	19.94	21	3		
3	16QAM	8	4	19.89	19.94	19.92	21	3		
3	16QAM	8	7	19.81	19.91	19.80	21	3		
3	16QAM	15	0	19.88	19.90	19.93	21	3		
3	256QAM	1	0	17.86	17.98	17.84	19	5		
3	256QAM	1	8	17.87	17.84	17.81	19	5		
3	256QAM	1	14	17.84	17.97	17.80	19	5		
3	256QAM	8	0	17.99	17.89	17.87	19	5		
3	256QAM	8	4	17.70	17.88	17.87	19	5		
3	256QAM	8	7	17.69	17.77	17.73	19	5		
3	256QAM	15	0	17.81	17.86	17.72	19	5		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.04	22.95	22.91	24	0		
1.4	QPSK	1	3	22.82	22.99	22.95	24	0		
1.4	QPSK	1	5	22.89	23.03	22.87	24	0		
1.4	QPSK	3	0	22.07	22.90	22.77	23	1		
1.4	QPSK	3	3	22.67	22.99	22.81	23	1		
1.4	QPSK	3	3	22.80	22.80	22.82	23	1		
1.4	QPSK	6	0	21.85	21.93	21.88	23	1		
1.4	16QAM	1	0	21.85	21.93	21.82	23	1		
1.4	16QAM	3	1	21.73	21.80	21.79	23	1		
1.4	16QAM	3	3	21.55	21.81	21.67	23	1		
1.4	16QAM	6	0	20.85	21.03	20.95	22	2		
1.4	16QAM	1	0	20.73	20.85	20.82	22	2		
1.4	16QAM	1	3	20.69	20.79	20.53	22	2		
1.4	16QAM	1	5	20.60	20.82	20.78	22	2		
1.4	16QAM	3	0	20.67	20.95	20.79	22	2		
1.4	16QAM	3	1	20.68	20.87	20.65	22	2		
1.4	16QAM	3	3	20.58	20.52	20.49	21	3		
1.4	16QAM	6	0	19.83	19.89	19.87	21	3		
1.4	256QAM	1	0	17.95	17.82	17.87	19	5		
1.4	256QAM	1	3	17.79	17.79	17.78	19	5		
1.4	256QAM	1	5	17.80	17.86	17.80	19	5		
1.4	256QAM	3	0	17.91	17.88	17.94	19	5		
1.4	256QAM	3	1	17.90	17.83	17.89	19	5		
1.4	256QAM	3	3	17.65	17.78	17.72	19	5		
1.4	256QAM	6	0	17.72	17.80	17.81	19	5		

Band 12 Ant 0 EC13										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.04	23.03	23.04	24	0		
10	QPSK	1	25	22.98	23.01	22.98	24	0		
10	QPSK	1	49	23.02	23.00	23.03	24	0		
10	QPSK	25	0	21.92	21.95	21.95	23	1		
10	QPSK	25	25	21.87	21.92	21.87	23	1		
10	QPSK	50	0	21.87	21.91	21.87	23	1		
10	16QAM	1	0	21.83	21.86	21.82	23	1		
10	16QAM	1	25	21.77	21.82	21.73	23	1		
10	16QAM	1	49	21.77	21.88	21.81	23	1		
10	16QAM	25	0	20.93	20.94	21.00	22	2		
10	16QAM	25	12	20.80	20.80	20.86	22	2		
10	16QAM	25	25	20.92	20.94	20.87	22	2		
10	16QAM	50	0	20.88	20.95	20.85	22	2		
10	16QAM	1	0	20.88	20.89	20.83	22	2		
10	16QAM	1	25	20.85	20.79	20.76	22	2		
10	16QAM	1	49	20.78	20.85	20.87	2			



Band 26 Ant 0 ECI3

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				26765	26865	26965		
15	QPSK	1	0	23.12	23.15	23.03	24	0
15	QPSK	1	37	22.99	23.09	23.04		
15	QPSK	1	74	23.08	23.12	22.95		
15	QPSK	36	0	22.06	22.10	22.08	23	1
15	QPSK	36	20	21.96	22.02	21.97		
15	QPSK	36	39	21.99	22.03	21.98		
15	QPSK	75	0	22.02	22.06	22.03		
15	16QAM	1	0	21.98	22.03	21.96	23	1
15	16QAM	1	37	21.87	21.96	21.85		
15	16QAM	1	74	21.90	21.96	21.86		
15	16QAM	36	0	21.11	21.07	21.04		
15	16QAM	36	20	20.91	21.00	20.98	22	2
15	16QAM	36	39	20.95	21.09	20.95		
15	16QAM	75	0	21.01	21.12	21.06		
15	64QAM	1	0	20.83	21.08	20.83	22	2
15	64QAM	1	37	20.88	20.92	20.89		
15	64QAM	1	74	20.87	20.97	20.88		
15	64QAM	36	0	20.04	20.07	20.03	21	3
15	64QAM	36	20	20.01	20.07	20.03		
15	64QAM	36	39	19.98	20.08	19.97		
15	64QAM	75	0	20.01	20.04	20.05		
15	256QAM	1	0	18.05	18.04	18.06	19	5
15	256QAM	1	37	18.02	18.01	17.99		
15	256QAM	1	74	18.01	18.09	17.92		
15	256QAM	36	0	18.07	18.02	18.04	19	5
15	256QAM	36	20	17.95	18.04	18.03		
15	256QAM	36	39	17.85	17.96	17.91		
15	256QAM	75	0	17.91	18.01	17.91		
Channel								
Frequency (MHz)				26740	26865	26990		
10	QPSK	1	0	22.99	23.05	23.03	24	0
10	QPSK	1	25	22.90	23.05	22.99		
10	QPSK	1	49	23.01	23.05	22.83		
10	QPSK	25	0	21.99	22.02	21.97	23	1
10	QPSK	25	12	21.85	21.88	21.89		
10	QPSK	25	24	21.89	21.95	21.90		
10	QPSK	50	0	21.97	21.95	21.95		
10	16QAM	1	0	21.92	21.98	21.93	23	1
10	16QAM	1	25	21.84	21.86	21.74		
10	16QAM	1	49	21.83	21.89	21.75		
10	16QAM	25	0	21.03	21.04	20.95	22	2
10	16QAM	25	12	20.77	20.88	20.83		
10	16QAM	25	24	20.67	20.86	20.84		
10	16QAM	50	0	20.97	21.05	21.03		
10	64QAM	1	0	20.87	21.00	20.85	22	2
10	64QAM	1	25	20.76	20.89	20.74		
10	64QAM	1	49	20.84	20.85	20.74		
10	64QAM	25	0	19.85	19.85	19.85	21	3
10	64QAM	25	12	19.89	20.01	19.81		
10	64QAM	25	24	19.85	19.97	19.82		
10	256QAM	1	0	18.99	18.95	20.83	19	5
10	256QAM	1	25	17.93	17.91	17.93		
10	256QAM	1	49	17.97	18.00	17.79		
10	256QAM	25	0	17.86	17.94	17.84	19	5
10	256QAM	25	12	17.81	18.02	17.90		
10	256QAM	25	24	17.83	17.91	17.78		
10	256QAM	50	0	17.80	17.93	17.75		
Channel								
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	23.00	23.09	23.04	24	0
5	QPSK	1	12	22.96	23.03	22.96		
5	QPSK	1	24	22.96	22.99	22.84		
5	QPSK	12	0	22.03	22.02	21.99	23	1
5	QPSK	12	7	21.86	21.93	21.92		
5	QPSK	12	13	21.96	21.93	21.88		
5	QPSK	25	0	21.88	21.86	21.91	23	1
5	16QAM	1	0	21.86	21.93	21.88		
5	16QAM	1	12	21.75	21.92	21.74	22	2
5	16QAM	1	24	21.83	21.85	21.83		
5	16QAM	12	0	21.96	20.97	20.95		
5	16QAM	12	7	20.89	20.87	20.87		
5	16QAM	12	13	20.89	20.88	20.87		
5	16QAM	25	0	20.95	21.01	20.95	22	2
5	64QAM	1	0	20.90	21.03	20.89	21	3
5	64QAM	1	12	20.83	20.83	20.68		
5	64QAM	1	24	20.75	20.92	20.83		
5	64QAM	12	0	19.99	19.95	20.01		
5	64QAM	12	7	19.89	20.05	20.00		
5	64QAM	12	13	19.91	19.96	19.86		
5	256QAM	1	0	19.93	19.94	19.92	19	5
5	256QAM	1	12	17.95	17.92	17.95		
5	256QAM	1	24	17.84	18.04	17.89		
5	256QAM	12	0	17.84	17.97	17.95		
5	256QAM	12	7	17.85	17.88	18.00		
5	256QAM	12	13	17.72	17.85	17.84		
5	256QAM	25	0	17.84	17.95	17.70		
Channel								
Frequency (MHz)				26705	26865	27025		
3	QPSK	1	0	23.03	23.08	22.93	24	0
3	QPSK	1	8	22.93	23.03	22.91		
3	QPSK	1	14	23.06	23.09	22.90		
3	QPSK	8	0	22.02	22.01	21.97	23	1
3	QPSK	8	4	21.82	21.95	21.82		
3	QPSK	8	7	21.85	22.01	21.87		
3	QPSK	15	0	21.95	21.95	22.00	23	1
3	16QAM	1	0	21.87	21.90	21.90		
3	16QAM	1	8	21.85	21.88	21.77	22	2
3	16QAM	1	14	21.77	21.90	21.76		
3	16QAM	8	0	21.01	20.93	20.94		
3	16QAM	8	4	20.88	20.89	20.87		
3	16QAM	8	7	20.91	21.06	20.83		
3	16QAM	15	0	20.94	21.07	20.83	22	2
3	64QAM	1	0	20.80	21.04	20.81		
3	64QAM	1	8	20.76	20.91	20.75		
3	64QAM	1	14	20.82	20.86	20.74		
3	64QAM	8	0	19.96	20.02	19.98	21	3
3	64QAM	8	4	19.89	19.95	19.97		
3	64QAM	8	7	19.91	19.98	19.94		
3	256QAM	1	0	17.97	17.81	18.02	19	5
3	256QAM	1	8	18.00	17.96	17.95		
3	256QAM	1	14	17.90	18.01	17.84		
3	256QAM	8	0	18.00	17.90	17.94		
3	256QAM	8	4	17.87	18.01	17.95		
3	256QAM	8	7	17.76	17.92	17.89		
3	256QAM	15	0	17.80	17.88	17.68		
Channel								
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	23.09	23.03	22.98	24	0
1.4	QPSK	1	3	22.97	23.07	23.01		
1.4	QPSK	1	5	23.01	23.07	22.91		
1.4	QPSK	3	0	23.03	23.01	22.90	23	1
1.4	QPSK	3	1	22.81	23.05	22.92		
1.4	QPSK	3	3	22.91	22.98	22.88		
1.4	QPSK	6	0	21.89	22.00	22.00	22	2
1.4	16QAM	1	0	21.94	22.00	21.90		
1.4	16QAM	1	3	21.75	21.91	21.83	23	1
1.4	16QAM	1	5	21.87	21.87	21.75		
1.4	16QAM	3	0	21.77	21.90	21.87		
1.4	16QAM	3	1	21.85	21.89	21.84		
1.4	16QAM	3	3	21.65	21.83	21.71	22	2
1.4	16QAM	6	0	20.88	21.07	21.01		
1.4	64QAM	1	0	20.82	20.97	20.88		
1.4	64QAM	1	3	20.74	20.94	20.83	22	2
1.4	64QAM	1	5	20.74	20.94	20.83		
1.4	64QAM	3	0	20.77	20.99	20.89		
1.4	64QAM	3	1	20.74	20.95	20.78		
1.4	64QAM	3	3	20.79	20.73	20.59		
1.4	256QAM	1	0	18.87	18.97	18.86	21	3
1.4	256QAM	1	3	17.92	17.89	17.87		
1.4	256QAM	1	5	17.95	18.01	17.82	19	5
1.4	256QAM	3	0	18.02	17.93	18.02		
1.4	256QAM	3	1	17.92	17.93	17.95		
1.4	256QAM	3	3	17.72	17.84	17.77		
1.4	256QAM	6	0	17.81	17.94	17.69	19	5



ISMB80 Ant 1 ECI3	Burst Average Power (dBm)			Tune-up Limit (dBm)	FrameAverage Power (dBm)			Tune-up Limit (dBm)
	TX Channel	185	261		Limit	185	261	
Frequency (MHz)	848.2	836.4	848.8	804.2	836.4	848.8		
GPRS 4 Tx slots	27.38	27.43	27.39	29.00	24.38	24.43	24.39	26.00

Band	WCDMA II Ant 1 ECI3				WCDMA IV Ant 1 ECI3				WCDMA V Ant 1 ECI3				
	TX Channel	9682	9400	9538	Tune-up Limit (dBm)	1312	1413	1513	Tune-up Limit (dBm)	4192	4162	4293	Tune-up Limit (dBm)
Frequency (MHz)	9682	9400	9538	1830	1513	1606	1706	1910	2497	2447	2448	2500	2800
3GPP Rel 99	RNC-12.2Kbps	17.03	17.05	17.00	18.30	17.62	17.95	17.95	19.10	24.19	24.25	24.13	25.00

Band 2 Ant 1 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									
Frequency (MHz)				18700	18900	19100			
20	QPSK	1	0	19.35	19.40	19.35	20.7	0	

Band 4 Ant 1 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									
Frequency (MHz)				20050	20175	20300			
20	QPSK	1	0	19.75	19.75	19.75	21.1	0	

Band 7 Ant 1 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									
Frequency (MHz)				20400	21100	21350			
20	QPSK	1	0	21.05	21.20	21.05	22	0	

Band 38 Ant 1 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									
Frequency (MHz)				2480	2595	2610			
20	QPSK	1	0	21.20	21.20	21.20	22.1	0	

Band 41 HPUE Ant 1 ECI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				2506	2549.5	2593	2638.5	2680		
20	QPSK	1	0	22.02	22.04	22.02	22.58	22.58	23.7	0

Band 66 Ant 1 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									
Frequency (MHz)				132072	132322	132572			
20	QPSK	1	0	19.80	19.80	19.80	21.1	0	

Band 41 Ant 1 ECI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				2506	2549.5	2593	2638.5	2680		
20	QPSK	1	0	21.82	21.84	21.83	21.82	21.82	22.1	0



Band 5 Ant 1 EC13										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.67	22.67	22.67	24	0		
10	QPSK	1	25	22.56	22.70	22.54				
10	QPSK	1	49	22.51	22.67	22.66				
10	QPSK	25	0	21.69	21.74	21.66	23	1		
10	QPSK	25	25	21.63	21.83	21.68				
10	QPSK	25	25	21.49	21.66	21.48				
10	QPSK	50	0	21.65	21.70	21.55				
10	16QAM	1	0	21.68	21.58	21.53	23	1		
10	16QAM	1	25	21.59	21.47	21.53				
10	16QAM	1	49	21.47	21.60	21.45				
10	16QAM	25	0	20.68	20.75	20.66				
10	16QAM	25	12	20.67	20.71	20.60				
10	16QAM	25	25	20.52	20.69	20.54	22	2		
10	16QAM	50	0	20.66	20.64	20.45				
10	64QAM	1	0	20.63	20.66	20.45	22	2		
10	64QAM	1	25	20.61	20.54	20.52				
10	64QAM	1	49	20.43	20.69	20.48				
10	64QAM	25	0	19.74	19.67	19.66				
10	64QAM	25	12	19.59	19.62	19.70				
10	64QAM	25	25	19.61	19.57	19.44	21	3		
10	64QAM	50	0	19.59	19.70	19.52				
10	256QAM	1	0	17.76	17.69	17.65				
10	256QAM	1	25	17.65	17.69	17.56	19	5		
10	256QAM	1	49	17.61	17.61	17.52				
10	256QAM	25	0	17.61	17.75	17.54				
10	256QAM	25	12	17.64	17.61	17.52	19	5		
10	256QAM	25	25	17.60	17.59	17.59				
10	256QAM	50	0	17.49	17.44	17.42				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.65	22.85	22.59	24	0		
5	QPSK	1	24	22.43	22.58	22.56				
5	QPSK	12	0	21.60	21.68	21.64	23	1		
5	QPSK	12	7	21.54	21.55	21.57				
5	QPSK	25	0	20.61	20.58	20.52	23	1		
5	QPSK	25	0	21.53	21.61	21.50				
5	16QAM	1	0	21.56	21.51	21.43	23	1		
5	16QAM	1	12	21.56	21.35	21.44				
5	16QAM	12	0	21.56	21.51	21.41				
5	16QAM	12	7	20.48	20.68	20.48	22	2		
5	16QAM	12	13	20.44	20.66	20.42				
5	16QAM	25	0	20.61	20.59	20.56				
5	64QAM	1	0	20.51	20.58	20.42	22	2		
5	64QAM	1	12	20.51	20.41	20.49				
5	64QAM	1	24	20.36	20.63	20.46				
5	64QAM	12	0	19.67	19.57	19.53	21	3		
5	64QAM	12	7	19.45	19.50	19.67				
5	64QAM	12	13	19.48	19.45	19.38				
5	16QAM	25	0	19.61	19.64	19.49	19	5		
5	256QAM	1	0	17.69	17.56	17.58				
5	256QAM	1	12	17.63	17.56	17.47				
5	256QAM	1	24	17.40	17.55	17.44	19	5		
5	256QAM	12	0	17.47	17.61	17.46				
5	256QAM	12	7	17.57	17.48	17.44				
5	256QAM	12	13	17.48	17.50	17.54				
5	256QAM	25	0	17.26	17.67	17.36				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.67	22.61	22.66	24	0		
3	QPSK	1	8	22.43	22.61	22.41				
3	QPSK	1	14	22.46	22.54	22.63				
3	QPSK	8	0	21.63	21.71	21.58	23	1		
3	QPSK	8	4	21.51	21.50	21.54				
3	QPSK	8	7	21.39	21.57	21.37				
3	QPSK	15	0	21.63	21.66	21.44	23	1		
3	16QAM	1	0	21.54	21.45	21.46				
3	16QAM	1	8	21.54	21.44	21.41				
3	16QAM	1	14	21.43	21.57	21.35				
3	16QAM	8	0	20.55	20.66	20.53	22	2		
3	16QAM	8	4	20.47	20.62	20.47				
3	16QAM	8	7	20.48	20.62	20.42				
3	16QAM	15	0	20.64	20.58	20.55				
3	64QAM	1	0	20.51	20.56	20.40	22	2		
3	64QAM	1	8	20.58	20.44	20.41				
3	64QAM	1	14	20.38	20.60	20.37				
3	64QAM	8	0	19.62	19.64	19.63	21	3		
3	64QAM	8	4	19.62	19.50	19.67				
3	64QAM	8	7	19.47	19.50	19.31				
3	64QAM	15	0	19.48	19.61	19.40				
3	256QAM	1	0	17.50	17.62	17.61	19	5		
3	256QAM	1	8	17.58	17.60	17.51				
3	256QAM	1	14	17.44	17.59	17.46				
3	256QAM	8	0	17.54	17.70	17.46				
3	256QAM	8	4	17.48	17.48	17.43	19	5		
3	256QAM	8	7	17.57	17.52	17.50				
3	256QAM	15	0	17.38	17.55	17.29				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.57	22.59	22.61	24	0		
1.4	QPSK	1	3	22.46	22.58	22.54				
1.4	QPSK	1	5	22.46	22.61	22.50				
1.4	QPSK	3	0	22.41	22.63	22.52	23	1		
1.4	QPSK	3	3	22.40	22.46	22.46				
1.4	QPSK	3	3	22.36	22.54	22.43				
1.4	QPSK	6	0	21.49	21.57	21.44	23	1		
1.4	16QAM	1	0	21.53	21.60	21.53				
1.4	16QAM	1	5	21.40	21.53	21.48	23	1		
1.4	16QAM	1	5	21.49	21.47	21.45				
1.4	16QAM	3	0	21.36	21.56	21.37				
1.4	16QAM	3	3	21.34	21.42	21.48	22	2		
1.4	16QAM	6	0	20.62	20.62	20.57				
1.4	64QAM	1	0	20.57	20.59	20.32	22	2		
1.4	64QAM	1	3	20.48	20.53	20.48				
1.4	64QAM	1	5	20.44	20.60	20.42				
1.4	64QAM	3	0	20.50	20.65	20.45				
1.4	64QAM	3	1	20.50	20.46	20.30	21	3		
1.4	64QAM	3	3	20.42	20.35	20.35				
1.4	64QAM	6	0	19.47	19.51	19.53	21	3		
1.4	256QAM	1	0	17.73	17.56	17.67				
1.4	256QAM	1	3	17.58	17.56	17.51	19	5		
1.4	256QAM	1	5	17.62	17.56	17.50				
1.4	256QAM	3	0	17.45	17.63	17.42				
1.4	256QAM	3	1	17.50	17.56	17.41				
1.4	256QAM	3	1	17.53	17.50	17.52				
1.4	256QAM	6	0	17.44	17.46	17.32	19	5		

Band 12 Ant 1 EC13										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.67	22.67	22.66	24	0		
10	QPSK	1	25	22.56	22.70	22.51				
10	QPSK	1	49	22.62	22.63	22.63				
10	QPSK	25	0	21.55	21.68	21.52	23	1		
10	QPSK	25	25	21.52	21.45	21.42				
10	QPSK	50	0	21.46	21.51	21.42				
10	16QAM	1	0	21.45	21.48	21.47	23	1		
10	16QAM	1	25	21.30	21.32	21.30				
10	16QAM	1	49	21.40	21.38	21.29				
10	16QAM	25	0	20.58	20.57	20.53				
10	16QAM	25	12	20.50	20.42	20.48	22	2		
10	16QAM	25	25	20.50	20.43	20.42				
10	16QAM	50	0	20.43	20.40	20.40				
10	64QAM	1	0	20.45	20.53	20.46	22	2		
10	64QAM	1	25	20.34	20.38	20.35				
10	64QAM	1	49	20.42	20.35	20.29				
10	64QAM	25	0	19.68	19.56	19.53				
10	64QAM	25	12	19.63	19.52	19.42	21	3		
10	64QAM	25	25	19.63	19.46	19.37				
10	64QAM	5								



Band 26 Ant 1 ECI3

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
				26765	26865	26965		
Frequency (MHz)								
15	QPSK	1	0	22.73	22.74	22.75		
15	QPSK	1	37	22.59	22.75	22.62	24	0
15	QPSK	1	74	22.62	22.73	22.71		
15	QPSK	36	0	21.74	21.76	21.72		
15	QPSK	36	20	21.71	21.68	21.68		
15	QPSK	36	39	21.60	21.71	21.58	23	1
15	QPSK	75	0	21.67	21.73	21.62		
15	16QAM	1	0	21.68	21.69	21.58		
15	16QAM	1	37	21.63	21.57	21.64	23	1
15	16QAM	1	74	21.57	21.66	21.55		
15	16QAM	36	0	20.79	20.76	20.73		
15	16QAM	36	20	20.68	20.72	20.62		
15	16QAM	36	39	20.63	20.74	20.55	22	2
15	16QAM	75	0	20.70	20.72	20.68		
15	64QAM	1	0	20.68	20.70	20.63		
15	64QAM	1	37	20.56	20.61	20.62	22	2
15	64QAM	1	74	20.52	20.72	20.57		
15	64QAM	36	0	19.77	19.70	19.76		
15	64QAM	36	20	19.68	19.64	19.72		
15	64QAM	36	39	19.63	19.68	19.63	21	3
15	64QAM	75	0	19.65	19.71	19.62		
15	256QAM	1	0	17.78	17.77	17.72		
15	256QAM	1	37	17.68	17.70	17.67	19	5
15	256QAM	1	74	17.58	17.68	17.59		
15	256QAM	36	0	17.67	17.77	17.62		
15	256QAM	36	20	17.69	17.71	17.54	19	5
15	256QAM	36	39	17.63	17.61	17.59		
15	256QAM	75	0	17.59	17.66	17.60		
Channel								
				26740	26865	26990		
Frequency (MHz)								
10	QPSK	1	0	22.70	22.72	22.64		
10	QPSK	1	25	22.48	22.69	22.58	24	0
10	QPSK	1	49	22.51	22.66	22.61		
10	QPSK	25	0	21.69	21.75	21.70		
10	QPSK	25	12	21.64	21.68	21.62	23	1
10	QPSK	25	24	21.55	21.66	21.54		
10	QPSK	50	0	21.58	21.68	21.51		
10	16QAM	1	0	21.66	21.65	21.46		
10	16QAM	1	25	21.61	21.46	21.57	23	1
10	16QAM	1	49	21.50	21.63	21.44		
10	16QAM	25	0	20.75	20.75	20.72		
10	16QAM	25	12	20.62	20.68	20.56	22	2
10	16QAM	25	24	20.58	20.71	20.47		
10	16QAM	50	0	20.67	20.70	20.65		
10	64QAM	1	0	20.67	20.61	20.42		
10	64QAM	1	25	20.63	20.51	20.52	22	2
10	64QAM	1	49	20.48	20.61	20.50		
10	64QAM	25	0	19.65	19.69	19.75		
10	64QAM	25	12	19.58	19.63	19.65	21	3
10	64QAM	25	24	19.62	19.60	19.43		
10	64QAM	50	0	19.63	19.68	19.59		
10	256QAM	1	0	17.75	17.69	17.61		
10	256QAM	1	25	17.66	17.61	17.55	19	5
10	256QAM	1	49	17.51	17.66	17.48		
10	256QAM	25	0	17.56	17.71	17.61		
10	256QAM	25	12	17.60	17.67	17.53	19	5
10	256QAM	25	24	17.52	17.58	17.57		
10	256QAM	50	0	17.57	17.54	17.39		
Channel								
				816.5	831.5	846.5		
Frequency (MHz)								
5	QPSK	1	0	22.66	22.74	22.63		
5	QPSK	1	12	22.53	22.73	22.54	24	0
5	QPSK	1	24	22.60	22.70	22.61		
5	QPSK	12	0	21.70	21.69	21.62		
5	QPSK	12	7	21.69	21.66	21.58	23	1
5	QPSK	12	13	21.59	21.61	21.52		
5	QPSK	25	0	21.66	21.64	21.51		
5	16QAM	1	0	21.61	21.63	21.53	23	1
5	16QAM	1	12	21.59	21.54	21.53		
5	16QAM	1	24	21.51	21.59	21.49		
5	16QAM	12	0	20.69	20.76	20.69		
5	16QAM	12	7	20.65	20.66	20.58	22	2
5	16QAM	12	13	20.61	20.69	20.46		
5	16QAM	25	0	20.66	20.64	20.58		
5	64QAM	1	0	20.65	20.59	20.46		
5	64QAM	1	12	20.65	20.60	20.55	22	2
5	64QAM	1	24	20.45	20.71	20.48		
5	64QAM	12	0	19.72	19.60	19.67		
5	64QAM	12	7	19.68	19.63	19.67	21	3
5	64QAM	12	13	19.62	19.66	19.52		
5	64QAM	25	0	19.65	19.61	19.57		
5	256QAM	1	0	17.73	17.76	17.65		
5	256QAM	1	12	17.67	17.68	17.59	19	5
5	256QAM	1	24	17.51	17.64	17.47		
5	256QAM	12	0	17.60	17.74	17.51		
5	256QAM	12	7	17.57	17.61	17.44	19	5
5	256QAM	12	13	17.54	17.56	17.56		
5	256QAM	25	0	17.56	17.59	17.41		
Channel								
				26705	26865	27025		
Frequency (MHz)								
3	QPSK	1	0	22.69	22.72	22.65		
3	QPSK	1	8	22.51	22.63	22.51	24	0
3	QPSK	1	14	22.57	22.64	22.59		
3	QPSK	8	0	21.71	21.69	21.62		
3	QPSK	8	4	21.65	21.68	21.68	23	1
3	QPSK	8	7	21.49	21.67	21.48		
3	QPSK	15	0	21.57	21.64	21.52		
3	16QAM	1	0	21.58	21.62	21.46	23	1
3	16QAM	1	8	21.55	21.48	21.54		
3	16QAM	1	14	21.51	21.60	21.55		
3	16QAM	8	0	20.77	20.74	20.72		
3	16QAM	8	4	20.62	20.72	20.61	22	2
3	16QAM	8	7	20.57	20.72	20.49		
3	16QAM	15	0	20.65	20.71	20.60		
3	64QAM	1	0	20.63	20.66	20.46		
3	64QAM	1	8	20.63	20.55	20.52	22	2
3	64QAM	1	14	20.46	20.71	20.49		
3	64QAM	8	0	19.74	19.69	19.66		
3	64QAM	8	4	19.66	19.58	19.66	21	3
3	64QAM	8	7	19.52	19.67	19.43		
3	64QAM	15	0	19.54	19.65	19.57		
3	256QAM	1	0	17.74	17.67	17.70		
3	256QAM	1	9	17.63	17.58	17.55	19	5
3	256QAM	1	14	17.46	17.66	17.59		
3	256QAM	8	0	17.65	17.74	17.60		
3	256QAM	8	4	17.61	17.68	17.46		
3	256QAM	8	7	17.54	17.61	17.57	19	5
3	256QAM	15	0	17.48	17.63	17.44		
Channel								
				26977	26965	27033		
Frequency (MHz)								
1.4	QPSK	1	0	22.62	22.73	22.66		
1.4	QPSK	1	3	22.59	22.65	22.58	24	0
1.4	QPSK	1	5	22.52	22.70	22.60		
1.4	QPSK	3	0	22.51	22.66	22.58		
1.4	QPSK	3	1	22.45	22.55	22.57		
1.4	QPSK	3	3	22.47	22.64	22.49		
1.4	QPSK	6	0	21.55	21.69	21.53	23	1
1.4	16QAM	1	0	21.61	21.68	21.57		
1.4	16QAM	1	3	21.54	21.57	21.58		
1.4	16QAM	1	5	21.57	21.64	21.54	23	1
1.4	16QAM	3	0	21.45	21.63	21.45		
1.4	16QAM	3	1	21.50	21.67	21.55		
1.4	16QAM	3	3	21.44	21.46	21.52		
1.4	16QAM	6	0	20.67	20.71	20.59	22	2
1.4	64QAM	1	0	20.66	20.64	20.44		
1.4	64QAM	1	3	20.59	20.58	20.59		
1.4	64QAM	1	5	20.49	20.63	20.49	22	2
1.4	64QAM	3	0	20.61	20.68	20.48		
1.4	64QAM	3	1	20.58	20.57	20.41		
1.4	64QAM	3	3	20.54	20.48	20.49		
1.4	64QAM	6	0	19.58	19.63	19.62	21	3
1.4	256QAM	1	0	17.76	17.66	17.69		
1.4	256QAM	1	3	17.67	17.65	17.57		
1.4	256QAM	1	5	17.58	17.62	17.57	19	5
1.4	256QAM	3	0	17.59	17.68	17.54		
1.4	256QAM	3	1	17.58	17.63	17.45		
1.4	256QAM	3	3</					



GSM 1900 Ant 2 ECI3	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	1850.2	1860		1869.8	1850.2	1860	
Frequency (MHz)	1850.2	1860	1869.8	1850	1860	1869.8	1850	
GPRS 4 Tx slots	22.68	22.73	22.70	23.90	19.68	19.73	19.70	20.90

Band	WCDMA II Ant 2 ECI3			Tune-up Limit (dBm)	WCDMA IV Ant 2 ECI3			Tune-up Limit (dBm)
	TX Channel	9382	9400		9538	1312	1413	
Rx Channel	9402	9400	9406	1513	1312	1413	1513	
Frequency (MHz)	1850.4	1860	1869.6	1850	1712.4	1732.6	1762.6	
3GPP Rel 99 RVC 12.2Kbps	17.19	17.25	17.21	18.50	15.62	15.66	15.63	17.00

Band 2 Ant 2 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									
				18700	18800	19100			
Frequency (MHz)				1860	1860	1900			
20	QPSK	1	0	15.21	15.25	15.23	16.4	0	

Band 4 Ant 2 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									
				20050	20175	20300			
Frequency (MHz)				1990	1992.5	1994			
20	QPSK	1	0	14.06	14.03	14.05	16.2	0	

Band 7 Ant 2 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									
				20400	21100	21350			
Frequency (MHz)				2110	2135	2160			
20	QPSK	1	0	15.63	15.23	15.24	18	0	

Band 38 Ant 2 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									
				37800	38000	38150			
Frequency (MHz)				2340	2395	2410			
20	QPSK	1	0	17.21	17.23	17.22	18.5	0	

Band 41 HPUE Ant 2 ECI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40160	40520	41050	41490		
Frequency (MHz)				2505	2548.5	2593	2638.5	2680		
20	QPSK	1	0	15.19	15.23	15.22	15.21	15.22	20.5	0

Band 66 Ant 2 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									
				132072	132322	132472			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	15.50	15.52	15.53	16.2	0	

Band 41 Ant 2 ECI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40160	40520	41050	41490		
Frequency (MHz)				2360	2448.5	2593	2638.5	2680		
20	QPSK	1	0	17.50	17.54	17.53	17.53	17.56	18.9	0



Band	WCDMA R4 Rev 3 ECI3			WCDMA R4 Rev 3 ECI3			Tune-up Limit (dBm)
	Tx Channel	Rx Channel	Frequency (MHz)	Power Limit (dBm)	Power Limit (dBm)	Power Limit (dBm)	
3GPP Rel 99	RMC 12-20kaps	16.52	16.54	16.50	17.90	18.70	18.72

Band 2 Ant 3 ECI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)
20	QPSK	1	0	18.52	18.52	18.51	20.2

Band 4 Ant 3 ECI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)
20	QPSK	1	0	17.20	17.25	17.45	20.3

Band 7 Ant 3 ECI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)
20	QPSK	1	0	18.23	18.28	18.25	19.6

Band 38 Ant 3 ECI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)
20	QPSK	1	0	20.54	20.55	20.55	21.4

Band 41 HPUE Ant 3 ECI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	0	21.80	21.78	21.85	21.82	21.84	23	0

Band 66 Ant 3 ECI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)
20	QPSK	1	0	19.00	19.00	19.02	20.3

Band 41 Ant 3 ECI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	0	20.55	20.52	20.62	20.59	20.58	21.4	0



Band 42 Part 27Q Ant 4 EC13

Channel	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)								
20	QPSK	1	0	16.35	16.42	16.39	17.4	0
20	QPSK	1	49	16.23	16.33	16.27		
20	QPSK	1	99	16.08	16.31	16.31		
20	QPSK	50	0	16.27	16.37	16.28		
20	QPSK	50	24	16.33	16.32	16.27		
20	QPSK	50	50	16.29	16.32	16.27		
20	QPSK	100	0	16.33	16.36	16.33		
20	16QAM	1	0	16.23	16.35	16.28		
20	16QAM	1	49	16.20	16.24	16.22		
20	16QAM	1	99	16.24	16.24	16.20		
20	16QAM	50	0	16.24	16.28	16.16		
20	16QAM	50	24	16.28	16.27	16.18		
20	16QAM	50	50	16.18	16.30	16.24		
20	16QAM	100	0	16.26	16.33	16.25		
20	64QAM	1	0	16.29	16.29	16.33		
20	64QAM	1	49	16.12	16.31	16.18		
20	64QAM	1	99	16.22	16.21	16.22		
20	64QAM	50	0	16.21	16.34	16.20		
20	64QAM	50	24	16.23	16.25	16.22		
20	64QAM	50	50	16.23	16.21	16.18		
20	64QAM	100	0	16.24	16.28	16.31		
20	256QAM	1	0	16.23	16.32	16.25		
20	256QAM	1	49	16.11	16.20	16.24		
20	256QAM	1	99	16.17	16.20	16.29		
20	256QAM	50	0	16.19	16.34	16.15		
20	256QAM	50	24	16.25	16.21	16.22		
20	256QAM	50	50	16.24	16.30	16.24		
20	256QAM	100	0	16.22	16.29	16.29		
Channel								
Frequency (MHz)								
15	QPSK	1	0	16.30	16.32	16.26	17.4	0
15	QPSK	1	37	16.11	16.25	16.22		
15	QPSK	1	74	16.18	16.29	16.23		
15	QPSK	36	0	16.23	16.25	16.20		
15	QPSK	36	20	16.30	16.28	16.18		
15	QPSK	36	39	16.10	16.29	16.21		
15	QPSK	75	0	16.29	16.30	16.21		
15	16QAM	1	0	16.20	16.23	16.23		
15	16QAM	1	37	16.10	16.18	16.15		
15	16QAM	1	74	16.12	16.16	16.10		
15	16QAM	36	0	16.11	16.15	16.09		
15	16QAM	36	20	16.24	16.22	16.06		
15	16QAM	36	39	16.13	16.17	16.11		
15	16QAM	75	0	16.21	16.26	16.16		
15	16QAM	1	0	16.25	16.21	16.21		
15	16QAM	1	37	16.01	16.18	16.15		
15	16QAM	1	74	16.08	16.18	16.11		
15	16QAM	36	0	16.14	16.25	16.14		
15	16QAM	36	20	16.13	16.13	16.11		
15	16QAM	36	39	16.13	16.14	16.07		
15	16QAM	75	0	16.21	16.24	16.29		
15	256QAM	1	0	16.12	16.24	16.22		
15	256QAM	1	37	16.00	16.17	16.17		
15	256QAM	1	74	16.10	16.14	16.16		
15	256QAM	36	0	16.14	16.27	16.10		
15	256QAM	36	20	16.15	16.10	16.14		
15	256QAM	36	39	16.21	16.22	16.12		
15	256QAM	75	0	16.17	16.14	16.26		
Channel								
Frequency (MHz)								
10	QPSK	1	0	16.28	16.29	16.33	17.4	0
10	QPSK	1	25	16.19	16.24	16.24		
10	QPSK	1	49	16.18	16.24	16.26		
10	QPSK	25	0	16.23	16.27	16.19		
10	QPSK	25	12	16.24	16.27	16.20		
10	QPSK	25	25	16.19	16.18	16.25		
10	QPSK	50	0	16.22	16.30	16.19		
10	16QAM	1	0	16.19	16.30	16.14		
10	16QAM	1	25	16.14	16.19	16.16		
10	16QAM	1	49	16.19	16.15	16.08		
10	16QAM	25	0	16.13	16.15	16.09		
10	16QAM	25	12	16.25	16.19	16.14		
10	16QAM	25	25	16.12	16.27	16.21		
10	16QAM	50	0	16.18	16.25	16.16		
10	64QAM	1	0	16.18	16.26	16.25		
10	64QAM	1	25	16.01	16.23	16.08		
10	64QAM	1	49	16.15	16.12	16.09		
10	64QAM	25	0	16.16	16.27	16.06		
10	64QAM	25	12	16.19	16.13	16.19		
10	64QAM	25	25	16.20	16.16	16.15		
10	256QAM	1	0	16.18	16.25	16.22		
10	256QAM	1	25	16.03	16.13	16.14		
10	256QAM	1	49	16.13	16.08	16.26		
10	256QAM	25	0	16.15	16.21	16.02		
10	256QAM	25	12	16.18	16.11	16.16		
10	256QAM	25	25	16.22	16.27	16.11		
10	256QAM	50	0	16.14	16.20	16.21		
Channel								
Frequency (MHz)								
5	QPSK	1	0	16.23	16.32	16.20	17.4	0
5	QPSK	1	12	16.19	16.28	16.17		
5	QPSK	1	24	16.24	16.22	16.24		
5	QPSK	12	0	16.25	16.24	16.19		
5	QPSK	12	7	16.26	16.22	16.24		
5	QPSK	12	13	16.23	16.26	16.19		
5	QPSK	25	0	16.21	16.32	16.23		
5	16QAM	1	0	16.17	16.25	16.19		
5	16QAM	1	12	16.14	16.14	16.10		
5	16QAM	1	24	16.21	16.11	16.11		
5	16QAM	12	0	16.11	16.15	16.10		
5	16QAM	12	7	16.25	16.19	16.09		
5	16QAM	12	13	16.04	16.21	16.17		
5	16QAM	25	0	16.17	16.22	16.26		
5	64QAM	1	0	16.24	16.18	16.26		
5	64QAM	1	12	15.99	16.17	16.06		
5	64QAM	1	24	16.10	16.14	16.18		
5	64QAM	12	0	16.17	16.30	16.16		
5	64QAM	12	7	16.13	16.17	16.19		
5	64QAM	12	13	16.11	16.08	16.06		
5	64QAM	25	0	16.17	16.25	16.18		
5	256QAM	1	0	16.13	16.18	16.19		
5	256QAM	1	12	16.00	16.09	16.15		
5	256QAM	1	24	16.00	16.08	16.25		
5	256QAM	12	0	16.15	16.30	16.04		
5	256QAM	12	7	16.17	16.10	16.15		
5	256QAM	12	13	16.13	16.26	16.18		
5	256QAM	25	0	16.19	16.22	16.21		



Band 42 Part 27Q Ant 6 ECI3

Channel	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)				4240	4260	4280				
20	QPSK	1	0	22.13	22.20	22.16	23.4	0		
20	QPSK	1	49	22.04	22.17	22.05				
20	QPSK	1	99	22.00	22.08	22.05				
20	QPSK	50	0	21.70	21.77	21.75				
20	QPSK	50	24	21.60	21.73	21.70				
20	QPSK	50	50	21.58	21.64	21.66	23	0.4		
20	QPSK	100	0	21.71	21.76	21.73				
20	16QAM	1	0	21.71	21.73	21.74				
20	16QAM	1	49	21.63	21.72	21.70				
20	16QAM	1	99	21.61	21.68	21.66				
20	16QAM	50	0	20.75	20.77	20.70	22	1.4		
20	16QAM	50	24	20.67	20.70	20.74				
20	16QAM	50	50	20.62	20.61	20.66				
20	16QAM	100	0	20.70	20.75	20.75				
20	64QAM	1	0	20.65	20.77	20.76				
20	64QAM	1	49	20.52	20.73	20.66	22	1.4		
20	64QAM	1	99	20.45	20.56	20.56				
20	64QAM	50	0	19.73	19.71	19.72				
20	64QAM	50	24	19.65	19.78	19.67				
20	64QAM	50	50	19.59	19.69	19.66				
20	64QAM	100	0	19.74	19.73	19.71	21	2.4		
20	256QAM	1	0	17.69	17.83	17.72				
20	256QAM	1	49	17.63	17.79	17.64				
20	256QAM	1	99	17.60	17.60	17.64				
20	256QAM	50	0	17.69	17.73	17.78				
20	256QAM	50	24	17.67	17.77	17.71	19	4.4		
20	256QAM	50	50	17.51	17.68	17.73				
20	256QAM	100	0	17.65	17.64	17.57				
Channel										
Frequency (MHz)				347.5	3500	3542.5				
15	QPSK	1	0	22.20	22.15	22.09	23.4	0		
15	QPSK	1	37	21.95	22.14	22.00				
15	QPSK	1	74	21.84	22.02	21.88				
15	QPSK	36	0	21.58	21.66	21.61				
15	QPSK	36	20	21.66	21.64	21.60				
15	QPSK	36	39	21.52	21.54	21.57	23	0.4		
15	QPSK	75	0	21.67	21.70	21.61				
15	16QAM	1	0	21.65	21.65	21.61				
15	16QAM	1	37	21.49	21.60	21.65				
15	16QAM	1	74	21.47	21.48	21.51				
15	16QAM	36	0	20.62	20.64	20.64	22	1.4		
15	16QAM	36	20	20.62	20.63	20.61				
15	16QAM	36	39	20.59	20.59	20.55				
15	16QAM	75	0	20.58	20.66	20.71				
15	16QAM	1	0	20.63	20.73	20.72				
15	64QAM	1	0	20.48	20.71	20.62	22	1.4		
15	64QAM	1	37	20.42	20.54	20.53				
15	64QAM	1	74	20.42	20.54	20.53				
15	64QAM	36	0	19.70	19.64	19.65				
15	64QAM	36	20	19.44	19.68	19.53				
15	64QAM	36	39	19.57	19.57	19.56	21	2.4		
15	64QAM	75	0	19.65	19.65	19.67				
15	256QAM	1	0	17.64	17.80	17.68				
15	256QAM	1	37	17.65	17.70	17.68				
15	256QAM	1	74	17.48	17.51	17.51				
15	256QAM	36	0	17.57	17.70	17.64	19	4.4		
15	256QAM	36	20	17.61	17.74	17.68				
15	256QAM	36	39	17.48	17.63	17.62				
15	256QAM	75	0	17.62	17.44	17.48				
Channel										
Frequency (MHz)				4240	4260	4280				
10	QPSK	1	0	21.99	22.15	22.07	23.4	0		
10	QPSK	1	25	21.90	22.05	22.01				
10	QPSK	1	49	21.87	22.02	21.86				
10	QPSK	25	0	21.63	21.70	21.72				
10	QPSK	25	12	21.51	21.60	21.61				
10	QPSK	25	25	21.55	21.53	21.56	23	0.4		
10	QPSK	50	0	21.69	21.62	21.62				
10	16QAM	1	0	21.58	21.62	21.63				
10	16QAM	1	25	21.47	21.61	21.56				
10	16QAM	1	49	21.41	21.47	21.50				
10	16QAM	25	0	20.69	20.72	20.64	22	1.4		
10	16QAM	25	12	20.45	20.56	20.65				
10	16QAM	25	25	20.55	20.56	20.59				
10	16QAM	50	0	20.60	20.75	20.61				
10	64QAM	1	0	20.56	20.73	20.67				
10	64QAM	1	25	20.42	20.64	20.56	22	1.4		
10	64QAM	1	49	20.34	20.47	20.48				
10	64QAM	25	0	19.65	19.63	19.67				
10	64QAM	25	12	19.41	19.72	19.63				
10	64QAM	25	25	19.48	19.69	19.57				
10	64QAM	50	0	19.61	19.60	19.67	21	2.4		
10	256QAM	1	0	17.57	17.73	17.66				
10	256QAM	1	25	17.62	17.66	17.52				
10	256QAM	1	49	17.51	17.47	17.54				
10	256QAM	25	0	17.64	17.66	17.68				
10	256QAM	25	12	17.64	17.66	17.68	19	4.4		
10	256QAM	25	25	17.49	17.62	17.66				
10	256QAM	50	0	17.63	17.46	17.46				
Channel										
Frequency (MHz)				3502.5	3500	3547.5				
5	QPSK	1	0	22.08	22.07	22.03	23.4	0		
5	QPSK	1	12	22.00	22.13	21.96				
5	QPSK	1	24	21.90	21.97	21.95				
5	QPSK	12	0	21.65	21.74	21.62				
5	QPSK	12	7	21.50	21.70	21.64				
5	QPSK	12	13	21.50	21.58	21.53	23	0.4		
5	QPSK	25	0	21.63	21.72	21.59				
5	16QAM	1	0	21.66	21.62	21.68				
5	16QAM	1	12	21.49	21.59	21.68				
5	16QAM	1	24	21.40	21.47	21.57				
5	16QAM	12	0	20.70	20.68	20.57	22	1.4		
5	16QAM	12	7	20.46	20.57	20.71				
5	16QAM	12	13	20.53	20.48	20.56				
5	16QAM	25	0	20.62	20.73	20.73				
5	64QAM	1	0	20.55	20.73	20.62				
5	64QAM	1	12	20.43	20.70	20.64	22	1.4		
5	64QAM	1	24	20.39	20.52	20.52				
5	64QAM	12	0	19.67	19.57	19.59				
5	64QAM	12	7	19.49	19.67	19.60				
5	64QAM	12	13	19.46	19.69	19.56				
5	64QAM	25	0	19.69	19.71	19.80	21	2.4		
5	256QAM	1	0	17.65	17.75	17.68				
5	256QAM	1	12	17.65	17.71	17.52				
5	256QAM	1	24	17.49	17.56	17.60				
5	256QAM	12	0	17.60	17.65	17.70				
5	256QAM	12	7	17.58	17.70	17.68	19	4.4		
5	256QAM	12	13	17.45	17.05	17.64				
5	256QAM	25	0	17.62	17.40	17.54				



Band 42 Part 27Q Ant 3 ECI3

Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mide Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				42160	42900	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	17.63	17.66	17.60	19	0
20	QPSK	1	49	17.51	17.52	17.58		
20	QPSK	1	99	17.61	17.62	17.61		
20	QPSK	50	0	17.53	17.53	17.55	19	0
20	QPSK	50	24	17.50	17.53	17.52		
20	QPSK	50	50	17.56	17.52	17.54		
20	QPSK	100	0	17.56	17.56	17.57	19	0
20	16QAM	1	0	17.58	17.82	17.47		
20	16QAM	1	49	17.42	17.47	17.53		
20	16QAM	1	99	17.50	17.57	17.40	19	0
20	16QAM	50	0	17.50	17.59	17.51		
20	16QAM	50	24	17.42	17.44	17.49		
20	16QAM	50	50	17.44	17.59	17.46	19	0
20	16QAM	100	0	17.42	17.53	17.56		
20	64QAM	1	0	17.58	17.53	17.55		
20	64QAM	1	49	17.38	17.43	17.55	19	0
20	64QAM	1	99	17.47	17.57	17.48		
20	64QAM	50	0	17.44	17.51	17.45		
20	64QAM	50	24	17.41	17.41	17.47	19	0
20	64QAM	50	50	17.50	17.54	17.51		
20	64QAM	100	0	17.50	17.45	17.52		
20	256QAM	1	0	17.49	17.55	17.48	19	0
20	256QAM	1	49	17.45	17.41	17.45		
20	256QAM	1	99	17.37	17.50	17.43		
20	256QAM	50	0	17.50	17.58	17.46	19	0
20	256QAM	50	24	17.46	17.49	17.44		
20	256QAM	50	50	17.44	17.57	17.41		
20	256QAM	100	0	17.49	17.56	17.47		
Channel				42165	42900	43015		
Frequency (MHz)				3475.5	3500	3525.5		
15	QPSK	1	0	17.63	17.63	17.48	19	0
15	QPSK	1	37	17.45	17.41	17.46		
15	QPSK	1	74	17.58	17.56	17.45		
15	QPSK	36	0	17.42	17.49	17.47	19	0
15	QPSK	36	20	17.38	17.46	17.43		
15	QPSK	36	39	17.47	17.53	17.44		
15	QPSK	75	0	17.44	17.52	17.49	19	0
15	16QAM	1	0	17.63	17.42	17.43		
15	16QAM	1	37	17.39	17.34	17.44		
15	16QAM	1	74	17.38	17.50	17.32	19	0
15	16QAM	36	0	17.46	17.51	17.39		
15	16QAM	36	20	17.38	17.41	17.36		
15	16QAM	36	39	17.35	17.52	17.44	19	0
15	16QAM	75	0	17.29	17.50	17.44		
15	64QAM	1	0	17.56	17.46	17.47		
15	64QAM	1	37	17.33	17.34	17.47	19	0
15	64QAM	1	74	17.39	17.51	17.34		
15	64QAM	36	0	17.40	17.49	17.42		
15	64QAM	36	20	17.40	17.36	17.37	19	0
15	64QAM	36	39	17.48	17.41	17.46		
15	64QAM	75	0	17.39	17.41	17.46		
15	256QAM	1	0	17.41	17.49	17.40	19	0
15	256QAM	1	37	17.40	17.39	17.36		
15	256QAM	1	74	17.51	17.40	17.40		
15	256QAM	36	0	17.45	17.45	17.33	19	0
15	256QAM	36	20	17.41	17.39	17.40		
15	256QAM	36	39	17.34	17.45	17.31		
15	256QAM	75	0	17.43	17.44	17.40		
Channel				42160	42900	43000		
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	17.54	17.58	17.57	19	0
10	QPSK	1	25	17.48	17.46	17.55		
10	QPSK	1	49	17.48	17.56	17.38		
10	QPSK	25	0	17.49	17.56	17.51	19	0
10	QPSK	25	12	17.45	17.49	17.49		
10	QPSK	25	25	17.53	17.56	17.43		
10	QPSK	50	0	17.49	17.48	17.45	19	0
10	16QAM	1	0	17.49	17.44	17.42		
10	16QAM	1	25	17.31	17.34	17.50		
10	16QAM	1	49	17.41	17.44	17.36	19	0
10	16QAM	25	0	17.46	17.47	17.42		
10	16QAM	25	12	17.36	17.35	17.46		
10	16QAM	25	25	17.42	17.53	17.46	19	0
10	16QAM	50	0	17.38	17.45	17.41		
10	64QAM	1	0	17.55	17.43	17.49		
10	64QAM	1	25	17.29	17.31	17.53	19	0
10	64QAM	1	49	17.33	17.34	17.36		
10	64QAM	25	0	17.34	17.43	17.38		
10	64QAM	25	12	17.31	17.37	17.42	19	0
10	64QAM	25	25	17.41	17.50	17.47		
10	64QAM	50	0	17.47	17.48	17.38		
10	256QAM	1	0	17.40	17.49	17.46	19	0
10	256QAM	1	25	17.42	17.30	17.38		
10	256QAM	1	49	17.47	17.46	17.40		
10	256QAM	25	0	17.40	17.52	17.42	19	0
10	256QAM	25	12	17.37	17.38	17.30		
10	256QAM	25	25	17.34	17.49	17.28		
10	256QAM	50	0	17.37	17.44	17.34		
Channel				42115	42900	43005		
Frequency (MHz)				3492.5	3500	3547.5		
5	QPSK	1	0	17.61	17.54	17.47	19	0
5	QPSK	1	12	17.47	17.43	17.47		
5	QPSK	1	24	17.58	17.58	17.46		
5	QPSK	12	0	17.45	17.58	17.51	19	0
5	QPSK	12	7	17.36	17.48	17.41		
5	QPSK	12	13	17.47	17.49	17.43		
5	QPSK	25	0	17.43	17.53	17.49	19	0
5	16QAM	1	0	17.54	17.50	17.35		
5	16QAM	1	12	17.35	17.35	17.41		
5	16QAM	1	24	17.37	17.48	17.31	19	0
5	16QAM	12	0	17.46	17.51	17.37		
5	16QAM	12	7	17.39	17.36	17.41		
5	16QAM	12	13	17.41	17.50	17.39	19	0
5	16QAM	25	0	17.36	17.45	17.50		
5	64QAM	1	0	17.53	17.45	17.47		
5	64QAM	1	12	17.29	17.33	17.46	19	0
5	64QAM	1	24	17.35	17.46	17.42		
5	64QAM	12	0	17.39	17.46	17.33		
5	64QAM	12	7	17.36	17.39	17.39	19	0
5	64QAM	12	13	17.45	17.46	17.41		
5	64QAM	25	0	17.39	17.33	17.38		
5	256QAM	1	0	17.42	17.48	17.37	19	0
5	256QAM	1	12	17.39	17.27	17.40		
5	256QAM	1	24	17.44	17.36	17.40		
5	256QAM	12	0	17.39	17.50	17.39	19	0
5	256QAM	12	7	17.34	17.42	17.38		
5	256QAM	12	13	17.41	17.50	17.28		
5	256QAM	25	0	17.45	17.43	17.38		



Band 42 Part 27Q Ant 8 ECI3

Channel	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)										
20	QPSK	1	0	21.16	21.22	21.19	22.5	0		
20	QPSK	1	49	21.12	21.14	21.16				
20	QPSK	1	99	21.10	21.18	21.15				
20	QPSK	50	0	21.13	21.19	21.10				
20	QPSK	50	24	21.04	21.17	21.11				
20	QPSK	50	50	21.06	21.12	21.12	22.5	0		
20	QPSK	100	0	21.05	21.17	21.06				
20	16QAM	1	0	21.05	21.15	21.06				
20	16QAM	1	49	21.01	21.08	21.03				
20	16QAM	1	99	20.98	21.06	21.00				
20	16QAM	50	0	20.83	20.72	20.57	22	0.5		
20	16QAM	50	24	20.49	20.62	20.57				
20	16QAM	50	50	20.58	20.61	20.64				
20	16QAM	100	0	20.63	20.62	20.58				
20	64QAM	1	0	20.83	20.64	20.53				
20	64QAM	1	49	20.53	20.54	20.58	22	0.5		
20	64QAM	1	99	20.48	20.56	20.54				
20	64QAM	50	0	19.68	19.73	19.59				
20	64QAM	50	24	19.65	19.65	19.63				
20	64QAM	50	50	19.56	19.59	19.57				
20	64QAM	100	0	19.57	19.70	19.60	21	1.5		
20	256QAM	1	0	17.87	17.67	17.58				
20	256QAM	1	49	17.51	17.63	17.57				
20	256QAM	1	99	17.52	17.58	17.67				
20	256QAM	50	0	17.50	17.66	17.54				
20	256QAM	50	24	17.67	17.61	17.60	19	3.5		
20	256QAM	50	50	17.53	17.53	17.56				
20	256QAM	100	0	17.43	17.59	17.50				
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.13	21.19	21.10	22.5	0		
15	QPSK	1	37	21.02	21.04	21.12				
15	QPSK	1	74	21.06	21.06	21.11				
15	QPSK	36	0	21.00	21.10	21.05				
15	QPSK	36	20	20.97	21.03	21.02				
15	QPSK	36	39	20.99	21.02	21.04	22.5	0		
15	QPSK	75	0	20.94	21.05	20.96				
15	16QAM	1	0	21.02	21.10	21.02				
15	16QAM	1	37	20.98	20.97	20.97				
15	16QAM	1	74	20.87	20.94	20.93				
15	16QAM	36	0	20.55	20.62	20.48	22	0.5		
15	16QAM	36	20	20.39	20.52	20.54				
15	16QAM	36	39	20.48	20.58	20.59				
15	16QAM	75	0	20.55	20.54	20.56				
15	16QAM	1	0	20.49	20.56	20.50				
15	64QAM	1	37	20.48	20.50	20.45	22	0.5		
15	64QAM	1	74	20.45	20.46	20.41				
15	64QAM	36	0	19.66	19.59	19.55				
15	64QAM	36	20	19.50	19.59	19.60				
15	64QAM	36	39	19.49	19.48	19.58				
15	64QAM	75	0	19.43	19.66	19.53	21	1.5		
15	256QAM	1	0	17.54	17.59	17.54				
15	256QAM	1	37	17.38	17.51	17.54				
15	256QAM	1	74	17.49	17.50	17.57				
15	256QAM	36	0	17.44	17.62	17.44				
15	256QAM	36	20	17.49	17.59	17.54	19	3.5		
15	256QAM	36	39	17.43	17.49	17.47				
15	256QAM	75	0	17.41	17.46	17.40				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.10	21.12	21.15	22.5	0		
10	QPSK	1	25	21.07	21.11	21.10				
10	QPSK	1	49	21.00	21.13	21.08				
10	QPSK	25	0	21.05	21.07	21.07				
10	QPSK	25	12	20.92	21.13	20.99				
10	QPSK	25	25	20.95	21.04	21.09	22.5	0		
10	QPSK	50	0	21.03	21.04	20.96				
10	16QAM	1	0	20.92	21.01	21.03				
10	16QAM	1	25	20.90	20.97	20.98				
10	16QAM	1	49	20.85	20.97	20.92				
10	16QAM	25	0	20.59	20.59	20.48	22	0.5		
10	16QAM	25	12	20.38	20.52	20.44				
10	16QAM	25	25	20.53	20.59	20.57				
10	16QAM	50	0	20.92	20.91	20.90				
10	64QAM	1	0	20.44	20.51	20.39				
10	64QAM	1	25	20.47	20.40	20.53	22	0.5		
10	64QAM	1	49	20.43	20.46	20.46				
10	64QAM	25	0	19.59	19.64	19.49				
10	64QAM	25	12	19.42	19.52	19.52				
10	64QAM	25	25	19.44	19.46	19.63				
10	64QAM	50	0	19.45	19.59	19.47	21	1.5		
10	256QAM	1	0	17.54	17.63	17.47				
10	256QAM	1	25	17.37	17.60	17.46				
10	256QAM	1	49	17.50	17.51	17.55				
10	256QAM	25	0	17.41	17.58	17.50				
10	256QAM	25	12	17.51	17.59	17.55	19	3.5		
10	256QAM	25	25	17.50	17.49	17.44				
10	256QAM	50	0	17.37	17.55	17.45				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.12	21.13	21.12	22.5	0		
5	QPSK	1	12	21.02	21.11	21.03				
5	QPSK	1	24	21.00	21.08	21.11				
5	QPSK	12	0	21.08	21.15	20.99				
5	QPSK	12	7	20.91	21.11	21.04				
5	QPSK	12	13	21.01	21.03	21.10	22.5	0		
5	QPSK	25	0	20.96	21.03	20.95				
5	16QAM	1	0	20.92	21.07	21.03				
5	16QAM	1	12	20.93	21.02	20.96				
5	16QAM	1	24	20.94	21.00	20.96				
5	16QAM	12	0	20.50	20.66	20.52	22	0.5		
5	16QAM	12	7	20.42	20.59	20.54				
5	16QAM	12	13	20.46	20.52	20.61				
5	16QAM	25	0	20.63	20.56	20.50				
5	64QAM	1	0	20.46	20.56	20.39				
5	64QAM	1	12	20.51	20.42	20.53	22	0.5		
5	64QAM	1	24	20.39	20.55	20.51				
5	64QAM	12	0	19.64	19.71	19.54				
5	64QAM	12	7	19.60	19.52	19.53				
5	64QAM	12	13	19.64	19.51	19.57				
5	64QAM	25	0	19.46	19.83	19.56	21	1.5		
5	256QAM	1	0	17.47	17.64	17.47				
5	256QAM	1	12	17.37	17.51	17.43				
5	256QAM	1	24	17.47	17.52	17.60				
5	256QAM	12	0	17.47	17.58	17.41				
5	256QAM	12	7	17.44	17.58	17.54	19	3.5		
5	256QAM	12	13	17.42	17.44	17.43				
5	256QAM	25	0	17.32	17.45	17.37				



Reduced Power Mode for ECI 5

GSM1900 Ant 0 ECI5	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	Low	Mid	High		Low	Mid	High	
TX Channel	158	165	201	158	165	201	158	165
Frequency (MHz)	842.2	836.4	848.8	842.2	836.4	848.8	842.2	836.4
GPRS 4 Tx slots	27.25	27.32	27.29	29.00	24.25	24.32	24.29	20.00

GSM1900 Ant 0 ECI5	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	Low	Mid	High		Low	Mid	High	
TX Channel	912	891	913	912	891	913	912	891
Frequency (MHz)	1802.5	1800	1809.5	1802.2	1800	1809.2	1802.2	1800
GPRS 4 Tx slots	23.82	23.87	23.85	25.00	20.62	20.87	20.85	22.00

Band	WCDMA I Ant 0 ECI5			Tune-up Limit (dBm)	WCDMA IV Ant 0 ECI5			Tune-up Limit (dBm)	WCDMA V Ant 0 ECI5			Tune-up Limit (dBm)
	Low	Mid	High		Low	Mid	High		Low	Mid	High	
TX Channel	9662	9460	9538	1312	1418	1513	4307	4307	4406	4406	4406	
Frequency (MHz)	1802.4	1800	1809.5	1712.4	1722.5	1732.5	326.5	336.4	346.5	346.5	346.5	
3GPP Ref 99	RW-12-kbps	19.12	19.15	19.10	20.11	20.16	20.15	23.89	23.91	23.95	24.90	

Band 2 Ant 0 ECI5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.03	17.00	17.50	19.5	0		

Band 4 Ant 0 ECI5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.00	17.22	17.44	21.3	0		

Band 66 Ant 0 ECI5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.65	19.70	19.68	21.3	0		

Band 7 Ant 0 ECI5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.15	20.20	20.18	21.2	0		

Band 38 Ant 0 ECI5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.52	22.53	22.52	23.5	0		

Band 41 Ant 0 ECI5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Low Middle Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.50	22.54	22.52	22.50	22.57	23.9	0

Band 41 HPUE Ant 0 ECI5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Low Middle Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.11	23.13	23.12	23.14	23.12	25.5	0



Band 5 Ant 0 ECIS									
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.60	21.50	21.40			
10	QPSK	1	25	21.52	21.62	21.40	22.7	0	
10	QPSK	1	49	21.56	21.62	21.58			
10	QPSK	25	0	21.52	21.58	21.50			
10	QPSK	25	25	21.50	21.50	21.54			
10	QPSK	25	25	21.54	21.49	21.45	22.7	0	
10	QPSK	50	0	21.52	21.56	21.49			
10	16QAM	1	0	21.26	21.53	21.26	22.7	0	
10	16QAM	1	25	21.40	21.38	21.40			
10	16QAM	1	49	21.45	21.43	21.44			
10	16QAM	25	0	21.02	21.02	20.93			
10	16QAM	25	12	20.81	20.84	20.81			
10	16QAM	25	25	20.74	20.88	20.85	22	0.7	
10	16QAM	50	0	20.85	20.95	20.74			
10	64QAM	1	0	20.81	20.84	20.83	22	0.7	
10	64QAM	1	25	20.82	20.84	20.74			
10	64QAM	1	49	20.76	20.85	20.78			
10	64QAM	25	0	20.01	19.90	19.86			
10	64QAM	25	12	19.84	19.91	19.75			
10	64QAM	25	25	19.87	19.89	19.83			
10	64QAM	50	0	19.88	19.92	19.82	21	1.7	
10	256QAM	1	0	17.99	17.91	17.89			
10	256QAM	1	25	17.85	17.84	17.85	19	3.7	
10	256QAM	1	49	17.71	17.86	17.79			
10	256QAM	25	0	17.89	17.87	17.78			
10	256QAM	25	12	17.83	17.85	17.74	19	3.7	
10	256QAM	25	25	17.91	17.74	17.86			
10	256QAM	50	0	17.81	17.84	17.74			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.51	21.67	21.46			
5	QPSK	1	24	21.52	21.62	21.46	22.7	0	
5	QPSK	1	24	21.51	21.52	21.45			
5	QPSK	12	0	21.39	21.55	21.37			
5	QPSK	12	7	21.37	21.41	21.41	22.7	0	
5	QPSK	12	14	21.41	21.41	21.41			
5	QPSK	25	0	21.46	21.50	21.40			
5	16QAM	1	0	21.51	21.39	21.44	22.7	0	
5	16QAM	1	12	21.28	21.36	21.36			
5	16QAM	1	24	21.42	21.38	21.38			
5	16QAM	12	0	20.58	20.95	20.97			
5	16QAM	12	7	20.76	20.79	20.69	22	0.7	
5	16QAM	12	13	20.69	20.81	20.79			
5	16QAM	25	0	20.75	20.89	20.72			
5	64QAM	1	0	20.79	20.87	20.71			
5	64QAM	1	12	20.77	20.82	20.69	22	0.7	
5	64QAM	1	24	20.72	20.74	20.69			
5	64QAM	12	0	19.82	19.87	19.76			
5	64QAM	12	7	19.78	19.81	19.67	21	1.7	
5	64QAM	12	13	19.78	19.79	19.77			
5	16QAM	25	0	19.82	19.86	19.76			
5	256QAM	1	0	17.95	17.83	17.75	19	3.7	
5	256QAM	1	12	17.83	17.73	17.62			
5	256QAM	1	24	17.60	17.89	17.78			
5	256QAM	12	0	17.73	17.77	17.73			
5	256QAM	12	7	17.78	17.71	17.71	19	4.4	
5	256QAM	12	13	17.84	17.63	17.83			
5	256QAM	25	0	17.86	17.71	17.68			
Channel									
Frequency (MHz)									
3	QPSK	1	0	21.46	21.64	21.48			
3	QPSK	1	8	21.47	21.55	21.30	22.7	0	
3	QPSK	1	14	21.48	21.56	21.48			
3	QPSK	8	0	21.40	21.54	21.46			
3	QPSK	8	4	21.42	21.38	21.43	22.7	0	
3	QPSK	8	7	21.42	21.38	21.33			
3	QPSK	15	0	21.40	21.52	21.44			
3	16QAM	1	0	21.45	21.49	21.51	22.7	0	
3	16QAM	1	8	21.32	21.30	21.27			
3	16QAM	1	14	21.34	21.35	21.34			
3	16QAM	8	0	20.85	20.96	20.80	22	0.7	
3	16QAM	8	4	20.73	20.74	20.68			
3	16QAM	8	7	20.61	20.77	20.82			
3	16QAM	15	0	20.80	20.88	20.69			
3	64QAM	1	0	20.69	20.90	20.78			
3	64QAM	1	8	20.71	20.79	20.64	22	0.7	
3	64QAM	1	14	20.68	20.77	20.64			
3	64QAM	8	0	19.88	19.80	19.75			
3	64QAM	8	4	19.73	19.80	19.67	21	1.7	
3	64QAM	8	7	19.79	19.78	19.72			
3	64QAM	15	0	19.82	19.84	19.74			
3	256QAM	1	0	17.86	17.80	17.67	19	3.7	
3	256QAM	1	8	17.80	17.60	17.56			
3	256QAM	1	14	17.60	17.89	17.60			
3	256QAM	8	0	17.77	17.82	17.74			
3	256QAM	8	4	17.77	17.78	17.68			
3	256QAM	8	7	17.80	17.62	17.76	19	3.7	
3	256QAM	15	0	17.87	17.72	17.66			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	21.53	21.60	21.52			
1.4	QPSK	1	3	21.42	21.58	21.27	22.7	0	
1.4	QPSK	1	5	21.48	21.55	21.54			
1.4	QPSK	3	0	21.39	21.46	21.45			
1.4	QPSK	3	3	21.48	21.39	21.44			
1.4	QPSK	3	3	21.40	21.38	21.32			
1.4	QPSK	6	0	21.46	21.45	21.44	22.7	0	
1.4	16QAM	1	0	21.51	21.45	21.50			
1.4	16QAM	1	3	21.34	21.31	21.30	22.7	0	
1.4	16QAM	1	5	21.38	21.42	21.38			
1.4	16QAM	3	0	21.46	21.34	21.43			
1.4	16QAM	3	1	21.22	21.19	21.23			
1.4	16QAM	3	3	21.28	21.39	21.33			
1.4	16QAM	6	0	20.78	20.89	20.69	22	0.7	
1.4	64QAM	1	0	20.74	20.86	20.73			
1.4	64QAM	1	3	20.76	20.79	20.67			
1.4	64QAM	1	5	20.68	20.74	20.66	22	0.7	
1.4	64QAM	3	0	20.74	20.83	20.56			
1.4	64QAM	3	1	20.67	20.80	20.65			
1.4	64QAM	3	3	20.74	20.67	20.59			
1.4	64QAM	6	0	19.75	19.88	19.75	21	1.7	
1.4	256QAM	1	0	17.89	17.86	17.79			
1.4	256QAM	1	3	17.78	17.80	17.56			
1.4	256QAM	1	5	17.61	17.80	17.68	19	3.7	
1.4	256QAM	3	0	17.79	17.84	17.76			
1.4	256QAM	3	1	17.79	17.81	17.60			
1.4	256QAM	3	3	17.80	17.62	17.81			
1.4	256QAM	6	0	17.82	17.74	17.70	19	3.7	

Band 12 Ant 0 ECIS									
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.10	22.00	22.14			
10	QPSK	1	25	22.11	22.07	22.11	23.4	0	
10	QPSK	1	49	22.10	22.18	22.08			
10	QPSK	25	0	21.77	21.70	21.77			
10	QPSK	25	12	21.66	21.61	21.72			
10	QPSK	25	25	21.67	21.72	21.60	23	0.4	
10	QPSK	50	0	21.74	21.75	21.71			
10	16QAM	1	0	21.67	21.72	21.72	23	0.4	
10	16QAM	1	25	21.65	21.69	21.69			
10	16QAM	1	49	21.69	21.61	21.68			
10	16QAM	25	0	20.74	20.85	20.80			
10	16QAM	25	12	20.61	20.67	20.76			
10	16QAM	25	25	20.72	20.76	20.62	22	1.4	
10	16QAM	50	0	20.71	20.78	20.75			
10	64QAM	1	0	20.71	20.74	20.72	22	1.4	
10	64QAM	1	25	20.55	20.57	20.65			
10	64QAM	1	49	20.55	20.63	20.44			
10	64QAM	25	0	19.77	19.74	19.77			
10	64QAM	25	12	19.72	19.61	19.74			
10	64QAM	25	25	19.66	19.60	19.65	21	2.4	



Band 26 Ant 0 ECI5

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
				26765	26865	26965		
Frequency (MHz)								
15	QPSK	1	0	21.70	21.74	21.63		
15	QPSK	1	37	21.61	21.64	21.54	22.7	0
15	QPSK	1	74	21.59	21.68	21.50		
15	QPSK	36	0	21.64	21.68	21.59		
15	QPSK	36	20	21.57	21.62	21.57	22.7	0
15	QPSK	36	39	21.61	21.62	21.59		
15	QPSK	75	0	21.62	21.64	21.54		
15	16QAM	1	0	21.68	21.62	21.61		
15	16QAM	1	37	21.47	21.51	21.45	22.7	0
15	16QAM	1	74	21.49	21.57	21.52		
15	16QAM	36	0	21.05	21.07	21.02		
15	16QAM	36	20	20.53	20.94	20.86		
15	16QAM	36	39	20.88	21.00	20.91	22	0.7
15	16QAM	75	0	20.94	20.98	20.86		
15	64QAM	1	0	20.83	20.98	20.87		
15	64QAM	1	37	20.54	20.55	20.54	22	0.7
15	64QAM	1	74	20.89	20.94	20.81		
15	64QAM	36	0	20.04	20.03	19.99		
15	64QAM	36	20	19.92	19.94	19.86		
15	64QAM	36	39	19.88	20.02	19.95	21	1.7
15	64QAM	75	0	20.00	20.00	19.90		
15	256QAM	1	0	18.04	17.99	17.98		
15	256QAM	1	37	17.97	17.89	17.79	19	3.7
15	256QAM	1	74	17.84	18.01	17.85		
15	256QAM	36	0	17.94	17.97	17.85		
15	256QAM	36	20	17.86	17.93	17.84	19	3.7
15	256QAM	36	39	17.87	17.88	17.81		
15	256QAM	75	0	17.93	17.95	17.82		
Channel								
				26740	26865	26990		
Frequency (MHz)								
10	QPSK	1	0	21.58	21.63	21.57		
10	QPSK	1	25	21.56	21.53	21.45	22.7	0
10	QPSK	1	49	21.55	21.57	21.56		
10	QPSK	25	0	21.60	21.63	21.52		
10	QPSK	25	12	21.46	21.60	21.48	22.7	0
10	QPSK	25	24	21.54	21.65	21.54		
10	QPSK	50	0	21.56	21.61	21.46		
10	16QAM	1	0	21.56	21.58	21.53		
10	16QAM	1	25	21.35	21.44	21.38	22.7	0
10	16QAM	1	49	21.38	21.45	21.45		
10	16QAM	25	0	20.95	20.94	20.97		
10	16QAM	25	12	20.84	20.89	20.84	22	0.7
10	16QAM	25	24	20.85	20.88	20.86		
10	16QAM	50	0	20.80	20.95	20.84		
10	64QAM	1	0	20.90	20.84	20.74		
10	64QAM	1	25	20.87	20.84	20.78	22	0.7
10	64QAM	1	49	20.77	20.86	20.76		
10	64QAM	25	0	19.95	20.01	19.96		
10	64QAM	25	12	19.81	19.85	19.78	21	1.7
10	64QAM	25	24	19.82	19.89	19.83		
10	64QAM	50	0	19.93	19.92	19.79		
10	256QAM	1	0	18.01	17.89	17.87		
10	256QAM	1	25	17.94	17.78	17.72	19	3.7
10	256QAM	1	49	17.78	17.89	17.76		
10	256QAM	25	0	17.89	17.84	17.78		
10	256QAM	25	12	17.83	17.91	17.71	19	3.7
10	256QAM	25	24	17.87	17.80	17.88		
10	256QAM	50	0	17.89	17.85	17.71		
Channel								
				2115	2205	2235		
Frequency (MHz)								
5	QPSK	1	0	21.68	21.64	21.65		
5	QPSK	1	12	21.50	21.58	21.41	22.7	0
5	QPSK	1	24	21.48	21.58	21.57		
5	QPSK	12	0	21.54	21.56	21.49		
5	QPSK	12	7	21.50	21.56	21.48	22.7	0
5	QPSK	12	13	21.53	21.53	21.50		
5	QPSK	25	0	21.58	21.54	21.48		
5	16QAM	1	0	21.65	21.52	21.50		
5	16QAM	1	12	21.38	21.38	21.34	22.7	0
5	16QAM	1	24	21.46	21.51	21.43		
5	16QAM	12	0	20.94	21.01	20.89		
5	16QAM	12	7	20.84	20.82	20.78	22	0.7
5	16QAM	12	13	20.84	20.91	20.88		
5	16QAM	25	0	20.85	20.92	20.81		
5	64QAM	1	0	20.80	20.98	20.82		
5	64QAM	1	12	20.82	20.82	20.73	22	0.7
5	64QAM	1	24	20.79	20.91	20.72		
5	64QAM	12	0	20.01	19.99	19.97		
5	64QAM	12	7	19.95	19.95	19.86		
5	64QAM	12	13	19.80	19.91	19.90	21	1.7
5	64QAM	25	0	19.88	19.92	19.77		
5	256QAM	1	0	17.97	17.86	17.80		
5	256QAM	1	12	17.85	17.78	17.73	19	3.7
5	256QAM	1	24	17.75	17.82	17.75		
5	256QAM	12	0	17.88	17.85	17.71		
5	256QAM	12	7	17.77	17.89	17.73	19	3.7
5	256QAM	12	13	17.87	17.77	17.84		
5	256QAM	25	0	17.88	17.89	17.77		
Channel								
				26705	26865	27025		
Frequency (MHz)								
3	QPSK	1	0	21.64	21.67	21.52		
3	QPSK	1	8	21.47	21.56	21.47	22.7	0
3	QPSK	1	14	21.52	21.63	21.55		
3	QPSK	8	0	21.94	21.62	21.53		
3	QPSK	8	4	21.44	21.58	21.51	22.7	0
3	QPSK	8	7	21.51	21.52	21.47		
3	QPSK	15	0	21.48	21.57	21.47		
3	16QAM	1	0	21.81	21.58	21.50		
3	16QAM	1	8	21.42	21.38	21.32	22.7	0
3	16QAM	1	14	21.36	21.52	21.39		
3	16QAM	8	0	20.88	20.94	20.91		
3	16QAM	8	4	20.89	20.88	20.79	22	0.7
3	16QAM	8	7	20.76	20.92	20.87		
3	16QAM	15	0	20.88	20.90	20.79		
3	64QAM	1	0	20.90	20.89	20.83		
3	64QAM	1	8	20.88	20.92	20.71	22	0.7
3	64QAM	1	14	20.78	20.81	20.78		
3	64QAM	8	0	19.96	19.98	19.90		
3	64QAM	8	4	19.79	19.84	19.86	21	1.7
3	64QAM	8	7	19.85	19.98	19.85		
3	64QAM	15	0	19.87	19.98	19.79		
3	256QAM	1	0	17.83	17.88	17.86		
3	256QAM	1	8	17.95	17.76	17.66	19	3.7
3	256QAM	1	14	17.75	17.92	17.80		
3	256QAM	8	0	17.89	17.91	17.78		
3	256QAM	8	4	17.81	17.82	17.80	19	3.7
3	256QAM	8	7	17.90	17.81	17.79		
3	256QAM	15	0	17.90	17.83	17.69		
Channel								
				26697	26865	27033		
Frequency (MHz)								
1.4	QPSK	1	0	21.62	21.70	21.62		
1.4	QPSK	1	3	21.48	21.57	21.42	22.7	0
1.4	QPSK	1	5	21.52	21.60	21.51		
1.4	QPSK	3	0	21.52	21.55	21.56		
1.4	QPSK	3	1	21.49	21.52	21.47		
1.4	QPSK	3	3	21.52	21.61	21.56		
1.4	QPSK	6	0	21.56	21.55	21.41	22.7	0
1.4	16QAM	1	0	21.61	21.57	21.53		
1.4	16QAM	1	3	21.42	21.44	21.34		
1.4	16QAM	1	5	21.45	21.64	21.42	22.7	0
1.4	16QAM	3	0	21.51	21.50	21.44		
1.4	16QAM	3	1	21.30	21.35	21.25		
1.4	16QAM	3	3	21.52	21.46	21.39		
1.4	16QAM	6	0	20.88	20.94	20.72	22	0.7
1.4	64QAM	1	0	20.88	20.85	20.83		
1.4	64QAM	1	3	20.86	20.96	20.72		
1.4	64QAM	1	5	20.86	20.83	20.77		
1.4	64QAM	3	0	20.76	20.77	20.75	22	0.7
1.4	64QAM	3	1	20.84	20.73	20.66		
1.4	64QAM	3	3	20.76	20.71	20.64		
1.4	64QAM	6	0	19.90	19.97	19.78		
1.4	256QAM	1	0	18.02	17.86	17.84	21	1.7
1.4	256QAM	1	3	17.92	17.82	17.70		
1.4	256QAM	1	5	17.74	17.98	17.82		
1.4	256QAM	3	0	17.88	17.87	17.81	19	3.7
1.4	256QAM	3	1					



DSMB80 Ant 1 ECIS	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	185	261		Limit	185	261	
Frequency (MHz)	845.2	836.4	848.8	804.2	836.4	848.8		
GPRS 4 Tx slots	27.38	27.43	27.39	29.00	24.38	24.43	24.39	26.00

Band	WCDMA III Ant 1 ECIS				WCDMA IV Ant 1 ECIS				WCDMA V Ant 1 ECIS				
	TX Channel	9602	9600	9608	Tune-up Limit (dBm)	1312	1413	1513	Tune-up Limit (dBm)	4192	4162	4203	Tune-up Limit (dBm)
Frequency (MHz)	1852.4	1860	1867.6	1930	1792.4	1792.6	1792.6	1785	1930	2419	2425	2413	2500
3GPP Ref 99	RWC-12-2Kbps	17.58	17.60	17.65	19.30	17.86	17.90	17.85	19.30	24.19	24.25	24.13	25.00

Band 2 Ant 1 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										
Frequency (MHz)				18700	18900	19100				
20	QPSK	1	0	18.83	18.70	18.66	19.7	0		

Band 4 Ant 1 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										
Frequency (MHz)				20050	20175	20300				
20	QPSK	1	0	18.48	18.45	18.45	19.9	0		

Band 7 Ant 1 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										
Frequency (MHz)				2310	2325	2340				
20	QPSK	1	0	19.44	19.43	19.42	21	0		

Band 38 Ant 1 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										
Frequency (MHz)				3780	3800	3815				
20	QPSK	1	0	22.81	22.83	22.83	23.6	0		

Band 41 HPUE Ant 1 ECIS										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40165	40520	41050	41490		
20	QPSK	1	0	23.74	23.77	23.80	23.72	23.71	25.2	0

Band 66 Ant 1 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										
Frequency (MHz)				132072	132322	132572				
20	QPSK	1	0	18.92	18.92	18.93	19.9	0		

Band 41 Ant 1 ECIS										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				2306	2349.5	2393	2436.5	2480		
20	QPSK	1	0	23.11	23.16	23.20	23.13	23.10	23.6	0



Band 5 Ant 1 ECIS										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq	Power Mid Ch./Freq	Power Low Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.70	22.70	22.70	24	0		
10	QPSK	1	25	22.56	22.70	22.54				
10	QPSK	1	49	22.51	22.67	22.66				
10	QPSK	25	0	21.69	21.74	21.66	23	1		
10	QPSK	25	25	21.63	21.83	21.68				
10	QPSK	25	25	21.49	21.66	21.48				
10	QPSK	50	0	21.65	21.70	21.55				
10	16QAM	1	0	21.68	21.58	21.53	23	1		
10	16QAM	1	25	21.59	21.47	21.53				
10	16QAM	1	49	21.47	21.60	21.45				
10	16QAM	25	0	20.68	20.75	20.66				
10	16QAM	25	12	20.67	20.71	20.60				
10	16QAM	25	25	20.52	20.69	20.54	22	2		
10	16QAM	50	0	20.66	20.64	20.45				
10	64QAM	1	0	20.63	20.66	20.45	22	2		
10	64QAM	1	25	20.61	20.54	20.52				
10	64QAM	1	49	20.43	20.69	20.48				
10	64QAM	25	0	19.74	19.67	19.66				
10	64QAM	25	12	19.59	19.62	19.70				
10	64QAM	25	25	19.61	19.57	19.44	21	3		
10	64QAM	50	0	19.59	19.70	19.52				
10	256QAM	1	0	17.76	17.69	17.65				
10	256QAM	1	25	17.65	17.69	17.56	19	5		
10	256QAM	1	49	17.61	17.61	17.52				
10	256QAM	25	0	17.61	17.75	17.54				
10	256QAM	25	12	17.64	17.61	17.52	19	5		
10	256QAM	25	25	17.60	17.59	17.59				
10	256QAM	50	0	17.49	17.44	17.42				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.65	22.85	22.59	24	0		
5	QPSK	1	24	22.43	22.58	22.56				
5	QPSK	12	0	21.60	21.68	21.64	23	1		
5	QPSK	12	7	21.54	21.55	21.57				
5	QPSK	25	0	20.61	20.58	20.52	23	1		
5	QPSK	25	0	21.53	21.61	21.50				
5	16QAM	1	0	21.56	21.51	21.43	23	1		
5	16QAM	1	12	21.56	21.35	21.44				
5	16QAM	12	24	21.35	21.51	21.47				
5	16QAM	12	0	20.50	20.65	20.50	22	2		
5	16QAM	12	7	20.48	20.68	20.48				
5	16QAM	12	13	20.44	20.66	20.42				
5	16QAM	25	0	20.61	20.59	20.56	22	2		
5	64QAM	1	0	20.51	20.58	20.42	22	2		
5	64QAM	1	12	20.51	20.41	20.49				
5	64QAM	1	24	20.36	20.63	20.46				
5	64QAM	12	0	19.67	19.57	19.53	21	3		
5	64QAM	12	7	19.45	19.50	19.67				
5	64QAM	12	13	19.48	19.45	19.38				
5	16QAM	25	0	19.66	19.64	19.49	19	5		
5	256QAM	1	0	17.69	17.56	17.58				
5	256QAM	1	12	17.63	17.56	17.47				
5	256QAM	1	24	17.40	17.55	17.44				
5	256QAM	12	0	17.41	17.61	17.46	19	5		
5	256QAM	12	7	17.57	17.48	17.44				
5	256QAM	12	13	17.48	17.50	17.54				
5	256QAM	25	0	17.26	17.67	17.36				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.67	22.61	22.66	24	0		
3	QPSK	1	8	22.43	22.61	22.41				
3	QPSK	1	14	22.46	22.54	22.63				
3	QPSK	8	0	21.63	21.71	21.58	23	1		
3	QPSK	8	4	21.51	21.50	21.54				
3	QPSK	8	7	21.39	21.57	21.37				
3	QPSK	15	0	21.63	21.66	21.44	23	1		
3	16QAM	1	0	21.54	21.45	21.46				
3	16QAM	1	8	21.54	21.44	21.41				
3	16QAM	1	14	21.43	21.57	21.35				
3	16QAM	8	0	20.56	20.66	20.53	22	2		
3	16QAM	8	4	20.47	20.62	20.47				
3	16QAM	8	7	20.48	20.62	20.42				
3	16QAM	15	0	20.64	20.58	20.55				
3	64QAM	1	0	20.51	20.56	20.40	22	2		
3	64QAM	1	8	20.58	20.44	20.41				
3	64QAM	1	14	20.38	20.60	20.37				
3	64QAM	8	0	19.62	19.64	19.63	21	3		
3	64QAM	8	4	19.62	19.50	19.67				
3	64QAM	8	7	19.47	19.50	19.31				
3	64QAM	15	0	19.48	19.61	19.40				
3	256QAM	1	0	17.50	17.62	17.61	19	5		
3	256QAM	1	8	17.58	17.60	17.51				
3	256QAM	1	14	17.44	17.59	17.46				
3	256QAM	8	0	17.54	17.70	17.46				
3	256QAM	8	4	17.48	17.48	17.43	19	5		
3	256QAM	8	7	17.57	17.52	17.50				
3	256QAM	15	0	17.38	17.55	17.29				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.57	22.59	22.61	24	0		
1.4	QPSK	1	3	22.46	22.58	22.54				
1.4	QPSK	1	5	22.46	22.61	22.50				
1.4	QPSK	3	0	22.41	22.63	22.52				
1.4	QPSK	3	3	22.40	22.46	22.46	23	1		
1.4	QPSK	3	3	22.36	22.54	22.43				
1.4	QPSK	6	0	21.49	21.57	21.44	23	1		
1.4	16QAM	1	0	21.53	21.80	21.53				
1.4	16QAM	1	4	21.40	21.53	21.48				
1.4	16QAM	1	5	21.49	21.57	21.45	23	1		
1.4	16QAM	3	0	21.36	21.56	21.37				
1.4	16QAM	3	3	21.34	21.42	21.48				
1.4	16QAM	6	0	20.62	20.62	20.57	22	2		
1.4	64QAM	1	0	20.57	20.59	20.32				
1.4	64QAM	1	3	20.48	20.53	20.48	22	2		
1.4	64QAM	1	5	20.44	20.60	20.42				
1.4	64QAM	3	0	20.50	20.65	20.45				
1.4	64QAM	3	1	20.50	20.46	20.30	21	3		
1.4	64QAM	3	3	20.42	20.35	20.35				
1.4	64QAM	6	0	19.47	19.51	19.53	21	3		
1.4	256QAM	1	0	17.73	17.56	17.67				
1.4	256QAM	1	3	17.58	17.56	17.51	19	5		
1.4	256QAM	1	5	17.62	17.56	17.50				
1.4	256QAM	3	0	17.45	17.63	17.42				
1.4	256QAM	3	1	17.50	17.56	17.41				
1.4	256QAM	3	1	17.53	17.50	17.52				
1.4	256QAM	6	0	17.44	17.46	17.32	19	5		

Band 12 Ant 1 ECIS										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq	Power Mid Ch./Freq	Power Low Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.62	22.72	22.66	24	0		
10	QPSK	1	25	22.56	22.70	22.51				
10	QPSK	1	49	22.62	22.63	22.63				
10	QPSK	25	0	21.55	21.68	21.52	23	1		
10	QPSK	25	25	21.52	21.45	21.42				
10	QPSK	50	0	21.46	21.51	21.42				
10	16QAM	1	0	21.45	21.48	21.47	23	1		
10	16QAM	1	25	21.31	21.42	21.30				
10	16QAM	1	49	21.40	21.38	21.29				
10	16QAM	25	0	20.58	20.57	20.53	22	2		
10	16QAM	25	12	20.50	20.42	20.48				
10	16QAM	25	25	20.50	20.43	20.42				
10	16QAM	50	0	20.43	20.49	20.40				
10	64QAM	1	0	20.45	20.53	20.46	22	2		
10	64QAM	1	25	20.34	20.38	20.35				
10	64QAM	1	49	20.42	20.35	20.29				
10	64QAM	25	0	19.68	19.56	19.53				
10	64QAM	25	12	19.63	19.52	19.42	21	3		
10	64QAM									



Band 26 Ant 1 ECI5

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
				26765	26865	26965		
Frequency (MHz)								
15	QPSK	1	0	22.73	22.74	22.75		
15	QPSK	1	37	22.59	22.75	22.62	24	0
15	QPSK	1	74	22.62	22.73	22.71		
15	QPSK	36	0	21.74	21.76	21.72		
15	QPSK	36	20	21.71	21.68	21.68		
15	QPSK	36	39	21.60	21.71	21.58	23	1
15	QPSK	75	0	21.67	21.73	21.62		
15	16QAM	1	0	21.68	21.69	21.58		
15	16QAM	1	37	21.63	21.57	21.64	23	1
15	16QAM	1	74	21.57	21.66	21.55		
15	16QAM	36	0	20.79	20.76	20.73		
15	16QAM	36	20	20.68	20.72	20.62		
15	16QAM	36	39	20.63	20.74	20.55	22	2
15	16QAM	75	0	20.70	20.72	20.68		
15	64QAM	1	0	20.68	20.70	20.63		
15	64QAM	1	37	20.56	20.61	20.62	22	2
15	64QAM	1	74	20.52	20.72	20.57		
15	64QAM	36	0	19.77	19.70	19.76		
15	64QAM	36	20	19.68	19.64	19.72		
15	64QAM	36	39	19.63	19.68	19.63	21	3
15	64QAM	75	0	19.65	19.71	19.62		
15	256QAM	1	0	17.78	17.77	17.72		
15	256QAM	1	37	17.68	17.70	17.67	19	5
15	256QAM	1	74	17.58	17.68	17.59		
15	256QAM	36	0	17.67	17.77	17.62		
15	256QAM	36	20	17.69	17.71	17.54	19	5
15	256QAM	36	39	17.63	17.61	17.59		
15	256QAM	75	0	17.59	17.66	17.60		
Channel								
				26740	26865	26990		
Frequency (MHz)								
10	QPSK	1	0	22.70	22.72	22.64		
10	QPSK	1	25	22.48	22.69	22.58	24	0
10	QPSK	1	49	22.51	22.66	22.61		
10	QPSK	25	0	21.69	21.75	21.70		
10	QPSK	25	12	21.64	21.68	21.62	23	1
10	QPSK	25	24	21.55	21.66	21.54		
10	QPSK	50	0	21.58	21.68	21.51		
10	16QAM	1	0	21.66	21.65	21.46		
10	16QAM	1	25	21.61	21.46	21.57	23	1
10	16QAM	1	49	21.50	21.63	21.44		
10	16QAM	25	0	20.75	20.75	20.72		
10	16QAM	25	12	20.62	20.68	20.56	22	2
10	16QAM	25	24	20.58	20.71	20.47		
10	16QAM	50	0	20.67	20.70	20.65		
10	64QAM	1	0	20.67	20.61	20.42		
10	64QAM	1	25	20.63	20.51	20.52	22	2
10	64QAM	1	49	20.48	20.61	20.50		
10	64QAM	25	0	19.65	19.69	19.75		
10	64QAM	25	12	19.58	19.63	19.65	21	3
10	64QAM	25	24	19.62	19.60	19.43		
10	64QAM	50	0	19.63	19.68	19.59		
10	256QAM	1	0	17.75	17.69	17.61		
10	256QAM	1	25	17.66	17.61	17.56	19	5
10	256QAM	1	49	17.51	17.66	17.48		
10	256QAM	25	0	17.56	17.71	17.61		
10	256QAM	25	12	17.60	17.67	17.53	19	5
10	256QAM	25	24	17.52	17.58	17.57		
10	256QAM	50	0	17.57	17.54	17.39		
Channel								
				816.5	831.5	846.5		
Frequency (MHz)								
5	QPSK	1	0	22.66	22.74	22.63		
5	QPSK	1	12	22.53	22.73	22.54	24	0
5	QPSK	1	24	22.60	22.70	22.61		
5	QPSK	12	0	21.70	21.69	21.62		
5	QPSK	12	7	21.69	21.66	21.58	23	1
5	QPSK	12	13	21.59	21.61	21.52		
5	QPSK	25	0	21.66	21.64	21.51		
5	16QAM	1	0	21.61	21.63	21.53	23	1
5	16QAM	1	12	21.59	21.54	21.53		
5	16QAM	1	24	21.51	21.59	21.49		
5	16QAM	12	0	20.69	20.76	20.69		
5	16QAM	12	7	20.65	20.66	20.58	22	2
5	16QAM	12	13	20.61	20.69	20.46		
5	16QAM	25	0	20.66	20.64	20.58		
5	64QAM	1	0	20.65	20.59	20.46		
5	64QAM	1	12	20.65	20.60	20.55	22	2
5	64QAM	1	24	20.45	20.71	20.48		
5	64QAM	12	0	19.72	19.60	19.67		
5	64QAM	12	7	19.68	19.63	19.67	21	3
5	64QAM	12	13	19.62	19.66	19.52		
5	64QAM	25	0	19.65	19.61	19.57		
5	256QAM	1	0	17.73	17.76	17.65		
5	256QAM	1	12	17.67	17.68	17.59	19	5
5	256QAM	1	24	17.51	17.64	17.47		
5	256QAM	12	0	17.60	17.74	17.51		
5	256QAM	12	7	17.57	17.61	17.44	19	5
5	256QAM	12	13	17.54	17.56	17.56		
5	256QAM	25	0	17.56	17.59	17.41		
Channel								
				26705	26865	27025		
Frequency (MHz)								
3	QPSK	1	0	22.69	22.72	22.65		
3	QPSK	1	8	22.51	22.63	22.51	24	0
3	QPSK	1	14	22.57	22.64	22.59		
3	QPSK	8	0	21.71	21.69	21.62		
3	QPSK	8	4	21.65	21.68	21.68	23	1
3	QPSK	8	7	21.49	21.67	21.48		
3	QPSK	15	0	21.57	21.64	21.52		
3	16QAM	1	0	21.58	21.62	21.46	23	1
3	16QAM	1	8	21.55	21.48	21.54		
3	16QAM	1	14	21.51	21.60	21.55		
3	16QAM	8	0	20.77	20.74	20.72		
3	16QAM	8	4	20.62	20.72	20.61	22	2
3	16QAM	8	7	20.57	20.72	20.49		
3	16QAM	15	0	20.65	20.71	20.60		
3	64QAM	1	0	20.63	20.66	20.46		
3	64QAM	1	8	20.63	20.55	20.52	22	2
3	64QAM	1	14	20.46	20.71	20.49		
3	64QAM	8	0	19.74	19.69	19.66		
3	64QAM	8	4	19.66	19.58	19.66	21	3
3	64QAM	8	7	19.52	19.67	19.43		
3	64QAM	15	0	19.54	19.65	19.57		
3	256QAM	1	0	17.74	17.67	17.70		
3	256QAM	1	9	17.63	17.58	17.55	19	5
3	256QAM	1	14	17.46	17.66	17.59		
3	256QAM	8	0	17.65	17.74	17.60		
3	256QAM	8	4	17.61	17.68	17.46		
3	256QAM	8	7	17.54	17.61	17.57	19	5
3	256QAM	15	0	17.48	17.63	17.44		
Channel								
				26977	26965	27033		
Frequency (MHz)								
1.4	QPSK	1	0	22.62	22.73	22.66		
1.4	QPSK	1	3	22.59	22.65	22.58	24	0
1.4	QPSK	1	5	22.52	22.70	22.60		
1.4	QPSK	3	0	22.51	22.66	22.58		
1.4	QPSK	3	1	22.45	22.55	22.57		
1.4	QPSK	3	3	22.47	22.64	22.49		
1.4	QPSK	6	0	21.55	21.69	21.53	23	1
1.4	16QAM	1	0	21.61	21.68	21.57		
1.4	16QAM	1	3	21.54	21.57	21.58		
1.4	16QAM	1	5	21.57	21.64	21.54	23	1
1.4	16QAM	3	0	21.45	21.63	21.45		
1.4	16QAM	3	1	21.50	21.67	21.55		
1.4	16QAM	3	3	21.44	21.46	21.52		
1.4	16QAM	6	0	20.67	20.71	20.59	22	2
1.4	64QAM	1	0	20.66	20.64	20.44		
1.4	64QAM	1	3	20.59	20.58	20.59		
1.4	64QAM	1	5	20.49	20.63	20.49	22	2
1.4	64QAM	3	0	20.61	20.68	20.48		
1.4	64QAM	3	1	20.58	20.57	20.41		
1.4	64QAM	3	3	20.54	20.48	20.49		
1.4	64QAM	6	0	19.56	19.63	19.62	21	3
1.4	256QAM	1	0	17.76	17.66	17.69		
1.4	256QAM	1	3	17.67	17.65	17.57		
1.4	256QAM	1	5	17.58	17.62	17.57	19	5
1.4	256QAM	3	0	17.59	17.68	17.54		
1.4	256QAM	3	1	17.58	17.63	17.45		
1.4	256QAM	3	3					



GSM 1900 Ant 2 EC15		Burst Average Power (dBm)			Frame Average Power (dBm)			Tune-up
TX Channel	912	915	918	Limit	912	915	918	
Frequency (MHz)	1860.2	1860	1909.8		1860.2	1860	1909.8	
GPRS 4 Tx slots	22.00	22.05	22.02	23.10	19.00	19.05	19.02	20.10

Band		WCDMA II Ant 2 EC15			WCDMA IV Ant 2 EC15			Tune-up
TX Channel	9262	9400	9538	Limit	1312	1413	1513	
TX Channel	9402	9400	9496		1512	1506	1506	
Frequency (MHz)	1862.4	1860	1909.6		1712.4	1732.6	1762.6	
3GPP Rel 99	RVC-12.2Kbps	18.21	18.25	18.22	19.50	20.51	20.54	21.80

Band 2 Ant 2 EC15									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				18700	18900	19100			
	Frequency (MHz)			1860	1890	1920			
20	QPSK	1	0	15.19	15.21	15.18	16.4	0	

Band 4 Ant 2 EC15									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				20050	20175	20300			
	Frequency (MHz)			1720	1722.5	1740			
20	QPSK	1	0	16.02	16.05	16.01	19.2	0	

Band 7 Ant 2 EC15									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				20460	21190	21350			
	Frequency (MHz)			2515	2535	2560			
20	QPSK	1	0	15.10	15.13	15.12	19.5	0	

Band 38 Ant 2 EC15									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				37850	38000	38150			
	Frequency (MHz)			2583	2595	2610			
20	QPSK	1	0	13.25	13.25	13.23	20.8	0	

Band 41 HPUE Ant 2 EC15										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40165	40520	41055	41490		
	Frequency (MHz)			2505	2543.5	2593	2638.5	2689		
20	QPSK	1	0	23.76	23.71	23.60	23.77	23.76	22.4	0

Band 66 Ant 2 EC15									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				132072	132322	132572			
	Frequency (MHz)			1720	1740	1760			
20	QPSK	1	0	18.92	18.92	18.95	19.2	0	

Band 41 Ant 2 EC15										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40165	40520	41055	41490		
	Frequency (MHz)			2506	2549.5	2593	2638.5	2689		
20	QPSK	1	0	19.42	19.44	19.30	19.43	19.45	20.8	0



Band	WCDMA R4 Ant 3 EC15			WCDMA R4 Ant 3 EC15			Tune-up Limit (dBm)
	Tx Channel	9662	9600	9638	1312	1413	
Rx Channel	9662	9600	9638	1312	1413	1413	22.00
Frequency (MHz)	1832	1830	1830.6	1824	1824	1824	
3GPP Rel 99	RNC-T2-9Kbps	18.35	18.30	18.89	20.00	21.18	21.21

Band 2 Ant 3 EC15								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18800	19100		
Frequency (MHz)				1863	1880	1903		
20	QPSK	1	0	21.13	23.25	23.22	22.6	0

Band 4 Ant 3 EC15								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20150	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	22.79	23.53	23.76	24	0

Band 7 Ant 3 EC15								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				20800	21100	21300		
Frequency (MHz)				2310	2335	2360		
20	QPSK	1	0	19.65	19.60	19.57	21.1	0

Band 38 Ant 3 EC15								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				37600	38000	38150		
Frequency (MHz)				2940	2950	2910		
20	QPSK	1	0	21.94	21.90	21.91	22.9	0

Band 41 HPUE Ant 3 EC15									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				39700	40100	40200			
Frequency (MHz)				2240	2245.5	2293			
20	QPSK	1	0	23.24	23.16	23.25	23.16	23.21	
								24.5	0

Band 66 Ant 3 EC15								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				32072	32220	32572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	22.62	23.36	23.79	24	0

Band 41 Ant 3 EC15									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				39700	40100	40200			
Frequency (MHz)				2190	2193.5	2193			
20	QPSK	1	0	21.90	21.88	22.00	21.93	21.95	
								22.9	0



Band 42 Part 27Q Ant 4 ECI5

Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
				42160	42900	42990				
				3460	3500	3540				
				20.71	20.77	20.73				
20	QPSK	1	0	20.68	20.66	20.71	21.8	0		
20	QPSK	1	49	20.68	20.66	20.71				
20	QPSK	1	99	20.68	20.66	20.71				
20	QPSK	50	0	20.59	20.70	20.66				
20	QPSK	50	24	20.64	20.69	20.65				
20	QPSK	50	50	20.61	20.63	20.61	21.8	0		
20	QPSK	50	75	20.65	20.67	20.63				
20	QPSK	100	0	20.65	20.67	20.63				
20	16QAM	1	0	20.83	20.85	20.88				
20	16QAM	1	49	20.85	20.89	20.88				
20	16QAM	1	99	20.88	20.96	20.95	21.8	0		
20	16QAM	50	0	20.49	20.66	20.63				
20	16QAM	50	24	20.50	20.55	20.60				
20	16QAM	50	50	20.47	20.56	20.56				
20	16QAM	100	0	20.55	20.54	20.55				
20	64QAM	1	0	20.68	20.83	20.69	21.8	0		
20	64QAM	1	49	20.65	20.57	20.65				
20	64QAM	1	99	20.82	20.56	20.82				
20	64QAM	50	0	19.94	19.97	19.94				
20	64QAM	50	24	19.87	19.83	19.88				
20	64QAM	50	50	19.81	19.92	19.83	21	0.8		
20	64QAM	100	0	19.80	19.93	19.86				
20	256QAM	1	0	17.89	17.86	17.84				
20	256QAM	1	49	17.90	17.87	17.91				
20	256QAM	1	99	17.72	17.80	17.83				
20	256QAM	50	0	17.80	17.88	17.86	19	2.8		
20	256QAM	50	24	17.87	17.84	17.79				
20	256QAM	50	50	17.82	17.78	17.81				
20	256QAM	100	0	17.91	17.92	17.88				
				42165	42900	43015				
Channel										
				3457.5	3500	3542.5				
15	QPSK	1	0	20.61	20.71	20.60	21.8	0		
15	QPSK	1	37	20.59	20.54	20.58				
15	QPSK	1	74	20.56	20.65	20.58				
15	QPSK	36	0	20.54	20.57	20.63				
15	QPSK	36	20	20.67	20.67	20.53				
15	QPSK	36	39	20.51	20.58	20.56	21.8	0		
15	QPSK	75	0	20.61	20.60	20.51				
15	16QAM	1	0	20.65	20.60	20.58				
15	16QAM	1	37	20.46	20.47	20.50				
15	16QAM	1	74	20.45	20.49	20.48				
15	16QAM	36	0	20.59	20.61	20.53	21.8	0		
15	16QAM	36	20	20.40	20.48	20.55				
15	16QAM	36	39	20.43	20.52	20.44				
15	16QAM	75	0	20.46	20.51	20.47				
15	16QAM	1	0	20.65	20.59	20.60				
15	64QAM	1	0	20.63	20.47	20.54	21.8	0		
15	64QAM	1	37	20.53	20.47	20.54				
15	64QAM	1	74	20.40	20.42	20.50				
15	64QAM	36	0	19.81	19.85	19.84				
15	64QAM	36	20	19.77	19.73	19.85				
15	64QAM	36	39	19.76	19.79	19.70	21	0.8		
15	64QAM	75	0	19.72	19.82	19.78				
15	256QAM	1	0	17.86	17.90	17.90				
15	256QAM	1	37	17.84	17.74	17.77				
15	256QAM	1	74	17.82	17.77	17.74				
15	256QAM	36	0	17.74	17.77	17.79	19	2.8		
15	256QAM	36	20	17.74	17.72	17.67				
15	256QAM	36	39	17.69	17.72	17.72				
15	256QAM	75	0	17.79	17.84	17.78				
				42160	42900	43000				
Channel										
				3465	3500	3545				
10	QPSK	1	0	20.61	20.69	20.67	21.8	0		
10	QPSK	1	25	20.64	20.60	20.59				
10	QPSK	1	49	20.48	20.56	20.53				
10	QPSK	25	0	20.50	20.57	20.55				
10	QPSK	25	12	20.53	20.67	20.60				
10	QPSK	25	25	20.53	20.51	20.50	21.8	0		
10	QPSK	50	0	20.64	20.68	20.55				
10	16QAM	1	0	20.55	20.83	20.60				
10	16QAM	1	25	20.46	20.48	20.47				
10	16QAM	1	49	20.38	20.61	20.51				
10	16QAM	25	0	20.38	20.57	20.61	21.8	0		
10	16QAM	25	12	20.43	20.48	20.56				
10	16QAM	25	25	20.42	20.50	20.47				
10	16QAM	50	0	20.60	20.61	20.47				
10	64QAM	1	0	20.54	20.55	20.63				
10	64QAM	1	25	20.56	20.51	20.61	21.8	0		
10	64QAM	1	49	20.47	20.44	20.56				
10	64QAM	25	0	19.92	19.88	19.80				
10	64QAM	25	12	19.83	19.72	19.74				
10	64QAM	25	25	19.69	19.88	19.78				
10	64QAM	50	0	19.73	19.83	19.76	21	0.8		
10	256QAM	1	0	17.75	17.89	17.85				
10	256QAM	1	25	17.84	17.77	17.87				
10	256QAM	1	49	17.69	17.74	17.70				
10	256QAM	25	0	17.74	17.84	17.83				
10	256QAM	25	12	17.81	17.71	17.73	19	2.8		
10	256QAM	25	25	17.71	17.71	17.68				
10	256QAM	50	0	17.77	17.87	17.74				
				42115	42900	43005				
Channel										
				3462.5	3500	3547.5				
5	QPSK	1	0	20.67	20.69	20.65	21.8	0		
5	QPSK	1	12	20.57	20.53	20.59				
5	QPSK	1	24	20.85	20.82	20.86				
5	QPSK	12	0	20.50	20.67	20.61				
5	QPSK	12	7	20.59	20.57	20.53				
5	QPSK	12	13	20.47	20.53	20.49	21.8	0		
5	QPSK	25	0	20.64	20.64	20.50				
5	16QAM	1	0	20.59	20.52	20.60				
5	16QAM	1	12	20.51	20.50	20.48				
5	16QAM	1	24	20.38	20.54	20.51				
5	16QAM	12	0	20.43	20.58	20.49	21.8	0		
5	16QAM	12	7	20.41	20.42	20.51				
5	16QAM	12	13	20.37	20.52	20.54				
5	16QAM	25	0	20.45	20.49	20.47				
5	64QAM	1	0	20.62	20.58	20.58				
5	64QAM	1	12	20.61	20.61	20.62	21.8	0		
5	64QAM	1	24	20.39	20.48	20.48				
5	64QAM	12	0	19.81	19.86	19.90				
5	64QAM	12	7	19.73	19.78	19.79				
5	64QAM	12	13	19.76	19.82	19.75				
5	64QAM	25	0	19.73	19.84	19.79	21	0.8		
5	256QAM	1	0	17.84	17.90	17.89				
5	256QAM	1	12	17.78	17.75	17.84				
5	256QAM	1	24	17.61	17.76	17.70				
5	256QAM	12	0	17.87	17.80	17.80				
5	256QAM	12	7	17.76	17.78	17.74	19	2.8		
5	256QAM	12	13	17.70	17.68	17.73				
5	256QAM	25	0	17.82	17.87	17.85				



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Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				42160	42600	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	19.30	19.35	19.33		
20	QPSK	1	49	19.26	19.27	19.25	20.7	0
20	QPSK	1	99	19.26	19.21	19.23		
20	QPSK	50	0	19.22	19.32	19.27		
20	QPSK	50	24	19.19	19.31	19.29		
20	QPSK	50	50	19.26	19.25	19.31	20.7	0
20	QPSK	100	0	19.24	19.20	19.28		
20	16QAM	1	0	19.16	19.21	19.30		
20	16QAM	1	49	19.15	19.13	19.14	20.7	0
20	16QAM	1	99	19.19	19.11	19.14		
20	16QAM	50	0	19.17	19.19	19.14		
20	16QAM	50	24	19.13	19.21	19.26	20.7	0
20	16QAM	50	50	19.16	19.14	19.22		
20	16QAM	100	0	19.21	19.21	19.20		
20	64QAM	1	0	19.26	19.22	19.28		
20	64QAM	1	49	19.13	19.19	19.16	20.7	0
20	64QAM	1	99	19.17	19.08	19.13		
20	64QAM	50	0	19.17	19.28	19.15		
20	64QAM	50	24	19.17	19.26	19.16		
20	64QAM	50	50	19.26	19.16	19.18	20.7	0
20	64QAM	100	0	19.20	19.16	19.18		
20	256QAM	1	0	17.86	17.83	17.84		
20	256QAM	1	49	17.51	17.54	17.53	19	1.7
20	256QAM	1	99	17.62	17.49	17.45		
20	256QAM	50	0	17.49	17.60	17.63		
20	256QAM	50	24	17.47	17.64	17.57	19	1.7
20	256QAM	50	50	17.56	17.49	17.54		
20	256QAM	100	0	17.59	17.59	17.60		
Channel				42165	42600	43015		
Frequency (MHz)				3475.5	3500	3542.5		
15	QPSK	1	0	19.24	19.27	19.22		
15	QPSK	1	37	19.16	19.20	19.21	20.7	0
15	QPSK	1	74	19.17	19.07	19.16		
15	QPSK	36	0	19.14	19.29	19.19		
15	QPSK	36	20	19.09	19.20	19.18	20.7	0
15	QPSK	36	39	19.10	19.19	19.19		
15	QPSK	75	0	19.18	19.18	19.17		
15	16QAM	1	0	19.03	19.12	19.21		
15	16QAM	1	37	19.11	19.02	19.05	20.7	0
15	16QAM	1	74	19.14	19.09	19.00		
15	16QAM	36	0	19.03	19.08	19.05		
15	16QAM	36	20	19.08	19.14	19.14	20.7	0
15	16QAM	36	39	19.06	19.06	19.17		
15	16QAM	75	0	19.14	19.10	19.15		
15	64QAM	1	0	19.13	19.12	19.16		
15	64QAM	1	37	19.10	19.17	19.05	20.7	0
15	64QAM	1	74	19.09	19.03	19.05		
15	64QAM	36	0	19.14	19.23	19.05		
15	64QAM	36	20	19.14	19.14	19.02	20.7	0
15	64QAM	36	39	19.17	19.12	19.13		
15	64QAM	75	0	19.16	19.06	19.15		
15	256QAM	1	0	17.49	17.60	17.53		
15	256QAM	1	37	17.65	17.41	17.49	19	1.7
15	256QAM	1	74	17.86	17.42	17.33		
15	256QAM	36	0	17.46	17.56	17.59		
15	256QAM	36	20	17.40	17.51	17.50	19	1.7
15	256QAM	36	39	17.53	17.40	17.51		
15	256QAM	75	0	17.47	17.46	17.51		
Channel				42160	42600	43000		
Frequency (MHz)				3465	3500	3540		
10	QPSK	1	0	19.21	19.28	19.27		
10	QPSK	1	25	19.17	19.14	19.13	20.7	0
10	QPSK	1	49	19.15	19.14	19.15		
10	QPSK	25	0	19.16	19.28	19.17		
10	QPSK	25	12	19.06	19.21	19.19	20.7	0
10	QPSK	25	25	19.19	19.18	19.23		
10	QPSK	50	0	19.20	19.20	19.19		
10	16QAM	1	0	19.14	19.11	19.28		
10	16QAM	1	25	19.04	19.08	19.01	20.7	0
10	16QAM	1	49	19.15	19.00	19.08		
10	16QAM	25	0	19.13	19.09	19.08		
10	16QAM	25	12	19.08	19.15	19.13	20.7	0
10	16QAM	25	25	19.12	19.00	19.12		
10	16QAM	50	0	19.11	19.11	19.11		
10	64QAM	1	0	19.15	19.19	19.17		
10	64QAM	1	25	19.05	19.06	19.08	20.7	0
10	64QAM	1	49	19.09	19.00	19.03		
10	64QAM	25	0	19.04	19.19	19.11		
10	64QAM	25	12	19.12	19.22	19.12	20.7	0
10	64QAM	25	25	19.14	19.09	19.05		
10	256QAM	50	0	19.11	19.13	19.11		
10	256QAM	1	0	17.50	17.58	17.58		
10	256QAM	1	25	17.39	17.45	17.49	19	1.7
10	256QAM	1	49	17.49	17.41	17.37		
10	256QAM	25	0	17.41	17.55	17.55		
10	256QAM	25	12	17.41	17.54	17.54	19	1.7
10	256QAM	25	25	17.52	17.38	17.57		
10	256QAM	50	0	17.51	17.54	17.53		
Channel				42115	42600	43000		
Frequency (MHz)				3462.5	3500	3547.5		
5	QPSK	1	0	19.17	19.31	19.27		
5	QPSK	1	12	19.18	19.23	19.17	20.7	0
5	QPSK	1	24	19.14	19.15	19.10		
5	QPSK	12	0	19.15	19.19	19.14		
5	QPSK	12	7	19.06	19.22	19.25	20.7	0
5	QPSK	12	13	19.25	19.19	19.18		
5	QPSK	25	0	19.16	19.23	19.25		
5	16QAM	1	0	19.06	19.18	19.25	20.7	0
5	16QAM	1	12	19.02	19.00	19.09		
5	16QAM	1	24	19.13	19.03	19.01		
5	16QAM	12	0	19.10	19.12	19.00		
5	16QAM	12	7	19.07	19.13	19.24	20.7	0
5	16QAM	12	13	19.09	19.00	19.13		
5	16QAM	25	0	19.17	19.10	19.10		
5	64QAM	1	0	19.17	19.19	19.20		
5	64QAM	1	12	19.04	19.07	19.11	20.7	0
5	64QAM	1	24	19.14	19.07	19.03		
5	64QAM	12	0	19.09	19.14	19.02		
5	64QAM	12	7	19.12	19.14	19.04	20.7	0
5	64QAM	12	13	19.17	19.07	19.14		
5	64QAM	25	0	19.11	19.07	19.06		
5	256QAM	1	0	17.44	17.59	17.52		
5	256QAM	1	12	17.41	17.46	17.44	19	1.7
5	256QAM	1	24	17.52	17.35	17.38		
5	256QAM	12	0	17.44	17.49	17.58		
5	256QAM	12	7	17.45	17.50	17.51	19	1.7
5	256QAM	12	13	17.43	17.39	17.58		
5	256QAM	25	0	17.85	17.49	17.51		



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Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mide Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
				42160	42900	42990				
				3460	3500	3540				
20	QPSK	1	0	18.96	19.00	18.94	20.4	0		
20	QPSK	1	49	18.91	18.90	18.83				
20	QPSK	1	99	18.84	18.92	18.85				
20	QPSK	50	0	18.85	18.99	18.84				
20	QPSK	50	24	18.84	18.95	18.80				
20	QPSK	50	50	18.85	18.92	18.87				
20	QPSK	100	0	18.89	18.94	18.81	20.4	0		
20	16QAM	1	0	18.89	18.87	18.83				
20	16QAM	1	49	18.80	18.78	18.76				
20	16QAM	1	99	18.71	18.81	18.76				
20	16QAM	50	0	18.77	18.82	18.80				
20	16QAM	50	24	18.76	18.87	18.77				
20	16QAM	50	50	18.77	18.84	18.74	20.4	0		
20	16QAM	100	0	18.81	18.86	18.73				
20	64QAM	1	0	18.84	18.91	18.91				
20	64QAM	1	49	18.83	18.83	18.72				
20	64QAM	1	99	18.73	18.79	18.86				
20	64QAM	50	0	18.80	18.93	18.75				
20	64QAM	50	24	18.71	18.85	18.68	20.4	0		
20	64QAM	50	50	18.72	18.79	18.84				
20	64QAM	100	0	18.83	18.88	18.71				
20	256QAM	1	0	17.86	17.88	17.55				
20	256QAM	1	49	17.51	17.47	17.43				
20	256QAM	1	99	17.45	17.54	17.44				
20	256QAM	50	0	17.44	17.60	17.48	19	1.4		
20	256QAM	50	24	17.44	17.58	17.35				
20	256QAM	50	50	17.40	17.56	17.47				
20	256QAM	100	0	17.45	17.52	17.36				
Channel										
				42165	42900	43015				
				3475.5	3500	3542.5				
15	QPSK	1	0	18.83	18.83	18.86	20.4	0		
15	QPSK	1	37	18.77	18.84	18.72				
15	QPSK	1	74	18.76	18.84	18.83				
15	QPSK	36	0	18.73	18.93	18.78				
15	QPSK	36	20	18.77	18.79	18.73				
15	QPSK	36	39	18.74	18.83	18.81				
15	QPSK	75	0	18.80	18.90	18.77	20.4	0		
15	16QAM	1	0	18.83	18.77	18.75				
15	16QAM	1	37	18.71	18.66	18.74				
15	16QAM	1	74	18.62	18.68	18.75				
15	16QAM	36	0	18.67	18.79	18.66				
15	16QAM	36	20	18.64	18.81	18.66				
15	16QAM	36	39	18.68	18.71	18.68	20.4	0		
15	16QAM	75	0	18.69	18.84	18.62				
15	16QAM	1	0	18.76	18.66	18.66				
15	16QAM	1	37	18.70	18.70	18.61				
15	16QAM	1	74	18.70	18.71	18.83				
15	16QAM	36	0	18.68	18.90	18.70				
15	16QAM	36	20	18.66	18.76	18.61	20.4	0		
15	16QAM	36	39	18.70	18.73	18.78				
15	16QAM	75	0	18.80	18.76	18.57				
15	256QAM	1	0	17.47	17.48	17.45				
15	256QAM	1	37	17.42	17.43	17.35				
15	256QAM	1	74	17.41	17.44	17.36				
15	256QAM	36	0	17.41	17.48	17.34	19	1.4		
15	256QAM	36	20	17.38	17.54	17.22				
15	256QAM	36	39	17.28	17.51	17.38				
15	256QAM	75	0	17.34	17.48	17.22				
Channel										
				42160	42900	43000				
				3465	3500	3540				
10	QPSK	1	0	18.83	18.89	18.83	20.4	0		
10	QPSK	1	25	18.88	18.87	18.70				
10	QPSK	1	49	18.78	18.90	18.78				
10	QPSK	25	0	18.77	18.92	18.71				
10	QPSK	25	12	18.75	18.89	18.68				
10	QPSK	25	25	18.72	18.86	18.82				
10	QPSK	50	0	18.78	18.87	18.72	20.4	0		
10	16QAM	1	0	18.81	18.74	18.71				
10	16QAM	1	25	18.88	18.69	18.62				
10	16QAM	1	49	18.83	18.69	18.67				
10	16QAM	25	0	18.83	18.73	18.71				
10	16QAM	25	12	18.69	18.78	18.84				
10	16QAM	25	25	18.65	18.74	18.63	20.4	0		
10	16QAM	50	0	18.76	18.74	18.66				
10	64QAM	1	0	18.80	18.83	18.82				
10	64QAM	1	25	18.69	18.74	18.67				
10	64QAM	1	49	18.69	18.74	18.81				
10	64QAM	25	0	18.78	18.79	18.62				
10	64QAM	25	12	18.65	18.83	18.62	20.4	0		
10	64QAM	25	25	18.61	18.71	18.79				
10	256QAM	1	0	18.77	18.86	18.61				
10	256QAM	1	0	17.46	17.53	17.51				
10	256QAM	1	25	17.42	17.36	17.36				
10	256QAM	1	49	17.33	17.46	17.31				
10	256QAM	25	0	17.36	17.54	17.34	19	1.4		
10	256QAM	25	12	17.34	17.51	17.26				
10	256QAM	25	25	17.37	17.44	17.43				
10	256QAM	50	0	17.40	17.44	17.23				
Channel										
				42115	42900	43005				
				3452.5	3500	3547.5				
5	QPSK	1	0	18.86	18.89	18.92	20.4	0		
5	QPSK	1	12	18.87	18.78	18.74				
5	QPSK	1	24	18.71	18.82	18.85				
5	QPSK	12	0	18.84	18.94	18.78				
5	QPSK	12	7	18.75	18.91	18.67				
5	QPSK	12	13	18.82	18.84	18.79				
5	QPSK	25	0	18.75	18.88	18.68	20.4	0		
5	16QAM	1	0	18.84	18.82	18.78				
5	16QAM	1	12	18.70	18.74	18.70				
5	16QAM	1	24	18.58	18.75	18.66				
5	16QAM	12	0	18.69	18.72	18.75				
5	16QAM	12	7	18.62	18.81	18.64				
5	16QAM	12	13	18.72	18.68	18.63	20.4	0		
5	16QAM	25	0	18.68	18.81	18.67				
5	64QAM	1	0	18.79	18.88	18.85				
5	64QAM	1	12	18.77	18.76	18.59				
5	64QAM	1	24	18.65	18.66	18.79				
5	64QAM	12	0	18.67	18.80	18.62				
5	64QAM	12	7	18.66	18.72	18.59	20.4	0		
5	64QAM	12	13	18.64	18.71	18.72				
5	64QAM	25	0	18.80	18.77	18.65				
5	256QAM	1	0	17.44	17.52	17.43				
5	256QAM	1	12	17.39	17.33	17.34				
5	256QAM	1	24	17.32	17.41	17.33				
5	256QAM	12	0	17.36	17.53	17.45	19	1.4		
5	256QAM	12	7	17.42	17.52	17.24				
5	256QAM	12	13	17.28	17.52	17.41				
5	256QAM	25	0	17.33	17.49	17.24				



Band 42 Part 27Q Ant 8 EC15

Channel	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				4240	4260	4280		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	23.44	23.47	23.38		
20	QPSK	1	49	23.33	23.37	23.29	24	0
20	QPSK	1	99	23.32	23.34	23.35		
20	QPSK	50	0	22.39	22.41	22.35		
20	QPSK	50	24	22.29	22.30	22.33		
20	QPSK	50	50	22.26	22.28	22.25	23	1
20	QPSK	100	0	22.29	22.30	22.21		
20	16QAM	1	0	22.35	22.34	22.22		
20	16QAM	1	49	22.19	22.19	22.30	23	1
20	16QAM	1	99	22.12	22.16	22.10		
20	16QAM	50	0	21.34	21.38	21.39		
20	16QAM	50	24	21.25	21.28	21.39	22	2
20	16QAM	50	50	21.21	21.33	21.27		
20	16QAM	100	0	21.21	21.37	21.18		
20	64QAM	1	0	21.35	21.33	21.20		
20	64QAM	1	49	21.19	21.23	21.33	22	2
20	64QAM	1	99	21.08	21.16	21.24		
20	64QAM	50	0	20.33	20.36	20.33		
20	64QAM	50	24	20.31	20.32	20.36		
20	64QAM	50	50	20.23	20.28	20.20	21	3
20	64QAM	100	0	20.34	20.38	20.26		
20	256QAM	1	0	18.43	18.40	18.33		
20	256QAM	1	49	18.26	18.33	18.33	19	5
20	256QAM	1	99	18.24	18.23	18.25		
20	256QAM	50	0	18.28	18.32	18.18		
20	256QAM	50	24	18.33	18.39	18.24	19	5
20	256QAM	50	50	18.16	18.23	18.26		
20	256QAM	100	0	18.12	18.12	18.22		
Channel				42165	42190	42155		
Frequency (MHz)				3475.5	3500	3525.5		
15	QPSK	1	0	23.31	23.40	23.27		
15	QPSK	1	37	23.20	23.32	23.22	24	0
15	QPSK	1	74	23.29	23.33	23.25		
15	QPSK	36	0	22.25	22.37	22.21		
15	QPSK	36	20	22.25	22.25	22.28	23	1
15	QPSK	36	39	22.17	22.25	22.13		
15	QPSK	75	0	22.24	22.29	22.14		
15	16QAM	1	0	22.32	22.25	22.13		
15	16QAM	1	37	22.12	22.08	22.17	23	1
15	16QAM	1	74	22.05	22.10	22.16		
15	16QAM	36	0	21.22	21.36	21.26		
15	16QAM	36	20	21.17	21.24	21.30	22	2
15	16QAM	36	39	21.17	21.19	21.24		
15	16QAM	75	0	21.19	21.30	21.13		
15	16QAM	1	0	21.31	21.23	21.12		
15	16QAM	1	37	21.14	21.10	21.21	22	2
15	64QAM	1	74	21.02	21.07	21.11		
15	64QAM	36	0	20.20	20.22	20.30		
15	64QAM	36	20	20.25	20.25	20.23	21	3
15	64QAM	36	39	20.18	20.22	20.08		
15	64QAM	75	0	20.20	20.31	20.18		
15	256QAM	1	0	18.38	18.31	18.28		
15	256QAM	1	37	18.19	18.06	18.25	19	5
15	256QAM	1	74	18.13	18.14	18.18		
15	256QAM	36	0	18.18	18.28	18.11		
15	256QAM	36	20	18.22	18.31	18.12	19	5
15	256QAM	36	39	18.12	18.12	18.16		
15	256QAM	75	0	18.02	18.06	18.12		
Channel				42165	42190	42155		
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	23.41	23.40	23.35		
10	QPSK	1	25	23.28	23.29	23.23	24	0
10	QPSK	1	49	23.22	23.22	23.27		
10	QPSK	25	0	22.26	22.37	22.24		
10	QPSK	25	12	22.20	22.23	22.30	23	1
10	QPSK	25	25	22.20	22.17	22.20		
10	QPSK	50	0	22.19	22.25	22.08		
10	16QAM	1	0	22.29	22.21	22.10		
10	16QAM	1	25	22.12	22.06	22.20	23	1
10	16QAM	1	49	22.05	22.05	22.16		
10	16QAM	25	0	21.27	21.28	21.28		
10	16QAM	25	12	21.12	21.24	21.31	22	2
10	16QAM	25	25	21.16	21.25	21.25		
10	16QAM	50	0	21.18	21.28	21.07		
10	64QAM	1	0	21.23	21.25	21.12		
10	64QAM	1	25	21.09	21.12	21.20	22	2
10	64QAM	1	49	21.00	21.05	21.17		
10	64QAM	25	0	20.29	20.23	20.22		
10	64QAM	25	12	20.23	20.22	20.26	21	3
10	64QAM	25	25	20.13	20.19	20.16		
10	256QAM	1	0	20.32	20.31	20.15		
10	256QAM	1	25	18.36	18.33	18.28	19	5
10	256QAM	1	49	18.13	18.20	18.25		
10	256QAM	25	0	18.06	18.06	18.15		
10	256QAM	25	12	18.20	18.31	18.16	19	5
10	256QAM	25	25	18.05	18.11	18.21		
10	256QAM	50	0	18.05	18.05	18.15		
Channel				42115	42190	42065		
Frequency (MHz)				3462.5	3500	3547.5		
5	QPSK	1	0	23.40	23.34	23.26		
5	QPSK	1	12	23.27	23.34	23.26	24	0
5	QPSK	1	24	23.28	23.25	23.28		
5	QPSK	12	0	22.33	22.28	22.26		
5	QPSK	12	7	22.21	22.17	22.30	23	1
5	QPSK	12	13	22.17	22.14	22.14		
5	QPSK	25	0	22.27	22.24	22.14		
5	16QAM	1	0	22.22	22.29	22.17	23	1
5	16QAM	1	12	22.10	22.07	22.27		
5	16QAM	1	24	22.05	22.04	22.11		
5	16QAM	12	0	21.21	21.33	21.31		
5	16QAM	12	7	21.14	21.23	21.37	22	2
5	16QAM	12	13	21.10	21.20	21.25		
5	16QAM	25	0	21.27	21.27	21.16		
5	64QAM	1	0	21.24	21.27	21.17		
5	64QAM	1	12	21.12	21.11	21.27	22	2
5	64QAM	1	24	20.39	21.14	21.16		
5	64QAM	12	0	20.31	20.29	20.26		
5	64QAM	12	7	20.33	20.26	20.23	21	3
5	64QAM	12	13	20.15	20.25	20.15		
5	64QAM	25	0	20.20	20.34	20.15		
5	256QAM	1	0	18.39	18.34	18.30	19	5
5	256QAM	1	12	18.21	18.24	18.30		
5	256QAM	1	24	18.15	18.20	18.18		
5	256QAM	12	0	18.23	18.27	18.13		
5	256QAM	12	7	18.28	18.32	18.10	19	5
5	256QAM	12	13	18.14	18.17	18.16		
5	256QAM	25	0	18.03	18.00	18.16		



Reduced Power Mode for ECI 6

GSM1900 Ant 0 ECI6		Burst Average Power (dBm)			Tune-up		Frame Average Power (dBm)			Tune-up	
TX Channel	Limit	Low	Mid	High	Limit	Low	Mid	High	Limit	High	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		824.2	848.8	
GPRS 4 Tx slots	27.25	27.32	27.29		29.00	24.25	24.32	24.29		26.00	

GSM1900 Ant 0 ECI6		Burst Average Power (dBm)			Tune-up		Frame Average Power (dBm)			Tune-up	
TX Channel	Limit	Low	Mid	High	Limit	Low	Mid	High	Limit	High	
Frequency (MHz)	1820.2	1830	1840	1850.8		1820.2	1830	1840		1850.8	
GPRS 4 Tx slots	23.82	23.87	23.85		25.00	20.62	20.87	20.85		22.00	

Band	WCDMA V Ant 0 ECI6				WCDMA IV Ant 0 ECI6				WCDMA V Ant 0 ECI6			
	TX Channel	Limit	Low	High	TX Channel	Limit	Low	High	TX Channel	Limit	Low	High
Frequency (MHz)	1820.2	1830	1840	1850.8	1312	1418	1518		4192	4162	4238	
3GPP Rel 99 RMC-12-Kbps	22.01	22.10	22.08	23.00	22.01	22.15	22.13		24.18	24.22	24.17	25.00

Band 2 Ant 0 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)			
20	QPSK	1	0	18700	18800	19100	23.4	0			

Band 4 Ant 0 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)			
20	QPSK	1	0	20060	20175	20300	23.9	0			

Band 7 Ant 0 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)			
20	QPSK	1	0	2510	2535	2560	23.7	0			

Band 38 Ant 0 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)			
20	QPSK	1	0	37850	38000	38150	25	0			

Band 66 Ant 0 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)			
20	QPSK	1	0	132072	132322	132572	23.9	0			

Band 41 Ant 0 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)			
20	QPSK	1	0	39750	40165	40600	23.5	0			

Band 41 HPUE Ant 0 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)			
20	QPSK	1	0	2505	2549.5	2593	28	0			



Band 5 Ant 0 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.97	22.97	22.97	24	0	
10	QPSK	1	25	22.92	23.03	22.90			
10	QPSK	1	49	23.02	23.09	22.87			
10	QPSK	25	0	21.99	22.01	21.95			
10	QPSK	25	25	21.84	21.99	21.93			
10	QPSK	25	25	21.94	21.97	21.95	23	1	
10	QPSK	50	0	21.95	21.99	21.92			
10	16QAM	1	0	21.90	21.91	21.91			
10	16QAM	1	25	20.76	21.95	21.79	23	1	
10	16QAM	1	49	21.87	21.88	21.79			
10	16QAM	25	0	21.03	21.03	20.94			
10	16QAM	25	12	20.86	20.97	20.85			
10	16QAM	25	12	20.91	21.02	20.94	22	2	
10	16QAM	50	0	20.87	21.08	20.98			
10	64QAM	1	0	20.83	21.03	20.79	22	2	
10	64QAM	1	25	20.76	20.96	20.67			
10	64QAM	1	49	20.79	20.84	20.77			
10	64QAM	25	0	19.93	19.99	20.00			
10	64QAM	25	12	19.93	19.97	19.94			
10	64QAM	25	12	19.85	19.97	19.80			
10	64QAM	50	0	19.99	20.01	19.95	21	3	
10	256QAM	1	0	17.92	18.00	17.98			
10	256QAM	1	25	17.86	17.97	17.91	19	5	
10	256QAM	1	49	17.87	17.96	17.82			
10	256QAM	25	0	18.04	17.98	17.92			
10	256QAM	25	12	17.82	17.96	17.90	19	5	
10	256QAM	25	12	17.80	17.82	17.82			
10	256QAM	50	0	17.88	17.87	17.76			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.01	23.05	22.84			
5	QPSK	1	24	22.94	23.06	22.81	24	0	
5	QPSK	12	0	21.87	21.95	21.81			
5	QPSK	12	7	21.73	21.82	21.84	23	1	
5	QPSK	25	0	20.84	20.97	20.80			
5	QPSK	25	0	21.82	21.98	21.86			
5	16QAM	1	0	21.79	21.87	21.87			
5	16QAM	1	12	21.60	21.82	21.68	23	1	
5	16QAM	1	24	21.60	21.86	21.67	23	1	
5	16QAM	12	0	21.01	21.00	20.98			
5	16QAM	12	7	20.76	20.94	20.75	22	2	
5	16QAM	12	13	20.85	20.96	20.75			
5	16QAM	25	0	20.84	20.97	20.80			
5	64QAM	1	0	20.79	20.96	20.67			
5	64QAM	1	12	20.62	20.76	20.61	22	2	
5	64QAM	1	24	20.69	20.73	20.61			
5	64QAM	12	0	19.87	19.97	19.86			
5	64QAM	12	7	19.85	19.88	19.91			
5	64QAM	12	13	19.79	19.88	19.77	21	3	
5	16QAM	25	0	19.80	19.91	19.86			
5	256QAM	1	0	17.90	17.92	17.94	19	5	
5	256QAM	1	12	17.90	17.93	17.89			
5	256QAM	1	24	17.75	18.00	17.83			
5	256QAM	12	0	17.82	17.96	17.82			
5	256QAM	12	7	17.76	17.89	17.83	19	5	
5	256QAM	12	13	17.76	17.70	17.71			
5	256QAM	25	0	17.86	17.90	17.67			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.97	22.98	22.87			
3	QPSK	1	8	22.88	22.93	22.81	24	0	
3	QPSK	1	14	22.97	23.01	22.79			
3	QPSK	8	0	21.94	21.95	21.91			
3	QPSK	8	4	21.81	21.86	21.90			
3	QPSK	8	7	21.91	21.87	21.86	23	1	
3	QPSK	15	0	21.87	21.91	21.78			
3	16QAM	1	0	21.82	21.90	21.82	23	1	
3	16QAM	1	8	21.65	21.88	21.67			
3	16QAM	1	14	21.76	21.77	21.69			
3	16QAM	8	0	20.85	20.97	20.86			
3	16QAM	8	4	20.74	20.88	20.76	22	2	
3	16QAM	8	7	20.83	20.94	20.78			
3	16QAM	15	0	20.85	20.95	20.95			
3	64QAM	1	0	20.69	20.94	20.70			
3	64QAM	1	8	20.72	20.75	20.55	22	2	
3	64QAM	1	14	20.69	20.75	20.64			
3	64QAM	8	0	19.89	19.95	19.94			
3	64QAM	8	4	19.89	19.94	19.92			
3	64QAM	8	7	19.81	19.91	19.80	21	3	
3	64QAM	15	0	19.88	19.90	19.93			
3	256QAM	1	0	17.86	17.98	17.94			
3	256QAM	1	8	17.87	17.84	17.81	19	5	
3	256QAM	1	14	17.84	17.97	17.80			
3	256QAM	8	0	17.99	17.89	17.87			
3	256QAM	8	4	17.70	17.88	17.87			
3	256QAM	8	7	17.69	17.77	17.73	19	5	
3	256QAM	15	0	17.81	17.86	17.72			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.04	22.95	22.91			
1.4	QPSK	1	3	22.82	22.99	22.95			
1.4	QPSK	1	5	22.89	23.03	22.87	24	0	
1.4	QPSK	3	0	22.07	22.90	22.77			
1.4	QPSK	3	3	22.67	22.99	22.81			
1.4	QPSK	3	3	22.80	22.80	22.82			
1.4	QPSK	6	0	21.85	21.93	21.88	23	1	
1.4	16QAM	1	0	21.85	21.93	21.82			
1.4	16QAM	1	49	21.66	21.80	21.79	23	1	
1.4	16QAM	1	5	21.78	21.78	21.68			
1.4	16QAM	3	0	20.85	21.03	20.95	22	2	
1.4	64QAM	1	0	20.73	20.85	20.82			
1.4	64QAM	1	3	20.69	20.79	20.53			
1.4	64QAM	1	5	20.60	20.82	20.78	22	2	
1.4	64QAM	3	0	20.67	20.95	20.79			
1.4	64QAM	3	1	20.68	20.87	20.65			
1.4	64QAM	3	3	20.58	20.52	20.49			
1.4	64QAM	6	0	19.83	19.89	19.87	21	3	
1.4	256QAM	1	0	17.96	17.82	17.87			
1.4	256QAM	1	3	17.79	17.79	17.78			
1.4	256QAM	1	5	17.80	17.86	17.69			
1.4	256QAM	3	0	17.91	17.88	17.94	19	5	
1.4	256QAM	3	1	17.90	17.83	17.89			
1.4	256QAM	3	3	17.65	17.78	17.72	19	5	

Band 12 Ant 0 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.04	23.04	23.04	24	0	
10	QPSK	1	25	22.98	23.01	22.98			
10	QPSK	1	49	23.02	23.00	23.03			
10	QPSK	25	0	21.92	21.95	21.95			
10	QPSK	25	12	21.77	21.82	21.73			
10	QPSK	25	25	21.85	21.94	21.90	23	1	
10	QPSK	50	0	21.87	21.91	21.87			
10	16QAM	1	0	21.83	21.86	21.82			
10	16QAM	1	25	21.77	21.82	21.73	23	1	
10	16QAM	1	49	21.77	21.88	21.81			
10	16QAM	25	0	20.93	20.94	21.00			
10	16QAM	25	12	20.80	20.80	20.86			
10	16QAM	25	12	20.92	20.94	20.87	22	2	
10	16QAM	50	0	20.88	20.95	20.85			
10	64QAM	1	0	20.88	20.89	20.83			
10	64QAM	1	25	20.85	20.79	20.76	22	2	
10	64QAM	1	49	20.78	20.85	20.87			
10	64QAM	25	0	19.87	19.97	19.98			
10	64QAM	25	12	19.89	19.83	19.79	21	3	
10	64QAM	25	12	19.84	19.88	19.88			
10	64QAM	50	0	19.84	19.88	19.92			
10	256QAM	1	0	17.87	17.84	17.81			
10	256QAM	1	25	17.83	17.89	17.81	19	5	
10	256QAM	1	49	17.83	17.89	17.80			
10	256QAM	25	0	17.82	17.88	17.87			
10	256QAM	25	12	17.86	17.87	17.			



Band 26 Ant 0 ECI6

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	0	23.12	23.15	23.03	24	0
15	QPSK	1	37	22.99	23.09	23.04		
15	QPSK	1	74	23.08	23.12	22.95		
15	QPSK	36	0	22.06	22.10	22.08	23	1
15	QPSK	36	20	21.96	22.02	21.97		
15	QPSK	36	39	21.99	22.03	21.98		
15	QPSK	75	0	22.02	22.06	22.03	23	1
15	16QAM	1	0	21.98	22.03	21.96		
15	16QAM	1	37	21.87	21.96	21.85		
15	16QAM	1	74	21.90	21.96	21.86	22	2
15	16QAM	36	0	21.11	21.07	21.04		
15	16QAM	36	20	20.91	21.00	20.98		
15	16QAM	36	39	20.95	21.09	20.95	21	3
15	16QAM	75	0	21.01	21.12	21.06		
15	64QAM	1	0	20.83	21.08	20.83		
15	64QAM	1	37	20.88	20.92	20.89	22	2
15	64QAM	1	74	20.87	20.97	20.88		
15	64QAM	36	0	20.04	20.07	20.03		
15	64QAM	36	20	20.01	20.07	20.03	21	3
15	64QAM	36	39	19.98	20.08	19.97		
15	64QAM	75	0	20.01	20.04	20.05		
15	256QAM	1	0	18.05	18.04	18.06	19	5
15	256QAM	1	37	18.02	18.01	17.99		
15	256QAM	1	74	18.01	18.09	17.92		
15	256QAM	36	0	18.07	18.02	18.04	19	5
15	256QAM	36	20	17.95	18.04	18.03		
15	256QAM	36	39	17.85	17.96	17.91		
15	256QAM	75	0	17.91	18.01	17.91		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.99	23.05	23.03	24	0
10	QPSK	1	25	22.90	23.05	22.99		
10	QPSK	1	49	23.01	23.05	22.83		
10	QPSK	25	0	21.99	22.02	21.97	23	1
10	QPSK	25	12	21.85	21.88	21.89		
10	QPSK	25	24	21.89	21.95	21.90		
10	QPSK	50	0	21.97	21.95	21.95	23	1
10	16QAM	1	0	21.92	21.98	21.93		
10	16QAM	1	25	21.84	21.86	21.74		
10	16QAM	1	49	21.83	21.89	21.75	22	2
10	16QAM	25	0	21.03	21.04	20.95		
10	16QAM	25	12	20.77	20.88	20.83		
10	16QAM	25	24	20.67	20.96	20.94	21	3
10	16QAM	50	0	20.97	21.05	21.03		
10	64QAM	1	0	20.87	21.00	20.85		
10	64QAM	1	25	20.76	20.89	20.74	22	2
10	64QAM	1	49	20.84	20.85	20.74		
10	64QAM	25	0	19.95	19.95	19.95		
10	64QAM	25	12	19.89	20.01	19.91	21	3
10	64QAM	25	24	19.85	19.97	19.92		
10	64QAM	50	0	19.99	19.95	20.03		
10	256QAM	1	0	17.93	17.91	17.93	19	5
10	256QAM	1	25	17.91	17.90	17.85		
10	256QAM	1	49	17.97	18.00	17.79		
10	256QAM	25	0	17.86	17.94	17.84	19	5
10	256QAM	25	12	17.81	18.02	17.90		
10	256QAM	25	24	17.83	17.91	17.78		
10	256QAM	50	0	17.80	17.93	17.75		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.00	23.09	23.04	24	0
5	QPSK	1	12	22.96	23.03	22.96		
5	QPSK	1	24	22.96	22.99	22.84		
5	QPSK	12	0	22.03	22.02	21.99	23	1
5	QPSK	12	7	21.86	21.93	21.92		
5	QPSK	12	13	21.96	21.93	21.88		
5	QPSK	25	0	21.88	21.86	21.91	23	1
5	16QAM	1	0	21.86	21.93	21.88		
5	16QAM	1	12	21.75	21.92	21.74		
5	16QAM	1	24	21.83	21.85	21.83	22	2
5	16QAM	12	0	21.96	20.97	20.95		
5	16QAM	12	7	20.89	20.87	20.87		
5	16QAM	12	13	20.89	20.88	20.87	21	3
5	16QAM	25	0	20.95	21.01	20.95		
5	64QAM	1	0	20.90	21.03	20.89		
5	64QAM	1	12	20.83	20.83	20.68	21	3
5	64QAM	1	24	20.75	20.92	20.83		
5	64QAM	12	0	19.99	19.95	20.01		
5	64QAM	12	7	19.89	20.05	20.00	19	5
5	64QAM	12	13	19.91	19.96	19.86		
5	64QAM	25	0	19.93	19.94	19.92		
5	256QAM	1	0	17.92	18.01	17.96	19	5
5	256QAM	1	12	17.95	17.92	17.95		
5	256QAM	1	24	17.84	18.04	17.89		
5	256QAM	12	0	17.84	17.97	17.95	19	5
5	256QAM	12	7	17.85	17.88	18.00		
5	256QAM	12	13	17.72	17.85	17.84		
5	256QAM	25	0	17.84	17.95	17.70		
Channel								
Frequency (MHz)								
3	QPSK	1	0	23.03	23.08	22.93	24	0
3	QPSK	1	8	22.93	23.03	22.91		
3	QPSK	1	14	23.06	23.09	22.90		
3	QPSK	8	0	22.02	22.01	21.97	23	1
3	QPSK	8	4	21.82	21.95	21.92		
3	QPSK	8	7	21.85	22.01	21.87		
3	QPSK	15	0	21.95	21.95	22.00	23	1
3	16QAM	1	0	21.87	21.90	21.90		
3	16QAM	1	8	21.85	21.88	21.77		
3	16QAM	1	14	21.77	21.90	21.76	22	2
3	16QAM	8	0	21.01	20.93	20.94		
3	16QAM	8	4	20.88	20.89	20.87		
3	16QAM	8	7	20.91	21.06	20.83	22	2
3	16QAM	15	0	20.94	21.07	20.83		
3	64QAM	1	0	20.80	21.04	20.81		
3	64QAM	1	8	20.76	20.91	20.75	21	3
3	64QAM	1	14	20.82	20.86	20.74		
3	64QAM	8	0	19.96	20.02	19.98		
3	64QAM	8	4	19.89	19.95	19.97	19	5
3	64QAM	8	7	19.91	19.98	19.94		
3	64QAM	15	0	19.87	19.95	19.92		
3	256QAM	1	0	17.97	17.81	18.02	19	5
3	256QAM	1	9	18.00	17.96	17.95		
3	256QAM	1	14	17.90	18.01	17.84		
3	256QAM	8	0	18.00	17.90	17.94	19	5
3	256QAM	8	4	17.87	18.01	17.95		
3	256QAM	8	7	17.76	17.92	17.89		
3	256QAM	15	0	17.80	17.88	17.68		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	23.09	23.03	22.98	24	0
1.4	QPSK	1	3	22.97	23.07	23.01		
1.4	QPSK	1	5	23.01	23.07	22.91		
1.4	QPSK	3	0	23.03	23.01	22.90	23	1
1.4	QPSK	3	1	22.81	23.05	22.92		
1.4	QPSK	3	3	22.91	22.98	22.88		
1.4	QPSK	6	0	21.89	22.00	22.00	23	1
1.4	16QAM	1	0	21.94	22.00	21.90		
1.4	16QAM	1	3	21.75	21.91	21.83		
1.4	16QAM	1	5	21.87	21.87	21.75	22	2
1.4	16QAM	3	0	21.77	21.90	21.87		
1.4	16QAM	3	1	21.85	21.89	21.84		
1.4	16QAM	3	3	21.65	21.83	21.71	21	3
1.4	16QAM	6	0	20.88	21.07	21.01		
1.4	64QAM	1	0	20.82	20.97	20.88		
1.4	64QAM	1	3	20.82	20.96	20.67	22	2
1.4	64QAM	1	5	20.74	20.94	20.83		
1.4	64QAM	3	0	20.77	20.99	20.89		
1.4	64QAM	3	1	20.74	20.95	20.78	21	3
1.4	64QAM	3	3	20.79	20.73	20.59		
1.4	64QAM	6	0	19.87	19.97	19.89		
1.4	256QAM	1	0	18.03	17.91	17.94	19	5
1.4	256QAM	1	3	17.92	17.89	17.87		
1.4	256QAM	1	5	17.95	18.01	17.82		
1.4	256QAM	3	0	18.02	17.93	18.02	19	5
1.4	256QAM	3	1	17.92	17.93	17.95		
1.4	256QAM	3	3	17.72	17.84	17.77		
1.4	256QAM	6	0	17.81	17.94	17.69		



ISMB80 Ant 1 EC16	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	185	261		Limit	185	261	
Frequency (MHz)	848.2	836.4	848.8	804.2	836.4	848.8		
GPRS 4 Tx slots	27.38	27.43	27.39	29.00	24.38	24.43	24.39	
							26.00	

Band	WCDMA III Ant 1 EC16				WCDMA IV Ant 1 EC16				WCDMA V Ant 1 EC16				
	TX Channel	9682	9600	9638	Tune-up Limit (dBm)	1312	1413	1513	Tune-up Limit (dBm)	4192	4162	4203	Tune-up Limit (dBm)
Frequency (MHz)	1852.4	1860	1859.6	1859	1712.4	1732.6	1762.6	1762	1847	1847	1848	1848	
3GPP Ref 99	RW-12.2Kbps	21.28	21.30	21.25	22.40	21.37	21.48	21.40	23.00	24.19	24.25	24.13	25.00

Band 2 Ant 1 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
	Channel			18700	18900	19100			
	Frequency (MHz)			1850	1850	1900			
20	QPSK	1	0	21.43	21.48	21.45	23	0	

Band 4 Ant 1 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
	Channel			20050	20175	20300			
	Frequency (MHz)			1920	1922.5	1940			
20	QPSK	1	0	21.54	21.57	21.53	23	0	

Band 7 Ant 1 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
	Channel			20400	21100	21350			
	Frequency (MHz)			2315	2325	2360			
20	QPSK	1	0	22.05	22.03	22.01	23.8	0	

Band 38 Ant 1 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
	Channel			37850	38000	38150			
	Frequency (MHz)			2385	2395	2410			
20	QPSK	1	0	22.05	22.03	22.02	25	0	

Band 66 Ant 1 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
	Channel			132072	132322	132572			
	Frequency (MHz)			1720	1745	1770			
20	QPSK	1	0	21.85	21.82	21.82	23	0	

Band 41 Ant 1 EC16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
	Channel			39750	40185	40620	41055	41490		
	Frequency (MHz)			2306	2349.5	2393	2436.5	2480		
20	QPSK	1	0	23.11	22.98	23.10	23.10	22.89	25	0

Band 41 HPUE Ant 1 EC16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
	Channel			39750	40185	40620	41055	41490		
	Frequency (MHz)			2306	2349.5	2393	2436.5	2480		
20	QPSK	1	0	25.07	25.13	25.10	25.10	25.06	27	0



Band 5 Ant 1 EC16										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.70	22.70	22.70	24	0		
10	QPSK	1	25	22.56	22.70	22.54				
10	QPSK	1	49	22.51	22.67	22.66				
10	QPSK	25	0	21.69	21.74	21.66	23	1		
10	QPSK	25	25	21.63	21.83	21.68				
10	QPSK	25	25	21.49	21.66	21.48				
10	QPSK	50	0	21.65	21.70	21.55				
10	16QAM	1	0	21.68	21.58	21.53	23	1		
10	16QAM	1	25	21.59	21.47	21.53				
10	16QAM	1	49	21.47	21.60	21.45				
10	16QAM	25	0	20.68	20.75	20.66				
10	16QAM	25	12	20.67	20.71	20.60				
10	16QAM	25	25	20.52	20.69	20.54	22	2		
10	16QAM	50	0	20.66	20.64	20.45				
10	64QAM	1	0	20.63	20.66	20.45	22	2		
10	64QAM	1	25	20.61	20.54	20.52				
10	64QAM	1	49	20.43	20.69	20.48				
10	64QAM	25	0	19.74	19.67	19.66				
10	64QAM	25	12	19.59	19.62	19.70				
10	64QAM	25	25	19.61	19.57	19.44	21	3		
10	64QAM	50	0	19.59	19.70	19.52				
10	256QAM	1	0	17.76	17.69	17.65				
10	256QAM	1	25	17.65	17.69	17.56	19	5		
10	256QAM	1	49	17.61	17.61	17.52				
10	256QAM	25	0	17.61	17.75	17.54				
10	256QAM	25	12	17.64	17.61	17.52	19	5		
10	256QAM	25	25	17.60	17.59	17.59				
10	256QAM	50	0	17.49	17.44	17.42				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.65	22.85	22.59	24	0		
5	QPSK	1	24	22.43	22.58	22.56				
5	QPSK	12	0	21.60	21.68	21.64	23	1		
5	QPSK	12	7	21.54	21.55	21.57				
5	QPSK	25	0	20.61	20.58	20.52	23	1		
5	QPSK	25	0	21.53	21.61	21.50				
5	16QAM	1	0	21.56	21.51	21.43	23	1		
5	16QAM	1	12	21.56	21.35	21.44				
5	16QAM	12	24	21.36	21.51	21.47	22	2		
5	16QAM	12	0	20.50	20.65	20.50				
5	16QAM	12	7	20.48	20.68	20.48				
5	16QAM	12	13	20.44	20.66	20.42				
5	16QAM	25	0	20.61	20.59	20.56	22	2		
5	64QAM	1	0	20.51	20.58	20.42	22	2		
5	64QAM	1	12	20.51	20.41	20.49				
5	64QAM	1	24	20.36	20.63	20.46				
5	64QAM	12	0	19.67	19.57	19.53	21	3		
5	64QAM	12	7	19.45	19.50	19.67				
5	64QAM	12	13	19.48	19.45	19.38				
5	16QAM	25	0	19.66	19.64	19.49	19	5		
5	256QAM	1	0	17.69	17.56	17.58				
5	256QAM	1	12	17.63	17.56	17.47	19	5		
5	256QAM	1	24	17.40	17.55	17.44				
5	256QAM	12	0	17.47	17.61	17.46	19	5		
5	256QAM	12	7	17.57	17.48	17.44				
5	256QAM	12	13	17.48	17.50	17.54				
5	256QAM	25	0	17.26	17.67	17.36				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.67	22.61	22.66	24	0		
3	QPSK	1	8	22.43	22.61	22.41				
3	QPSK	1	14	22.46	22.54	22.63				
3	QPSK	8	0	21.63	21.71	21.58	23	1		
3	QPSK	8	4	21.51	21.50	21.54				
3	QPSK	8	7	21.39	21.57	21.37				
3	QPSK	15	0	21.63	21.66	21.44	23	1		
3	16QAM	1	0	21.54	21.45	21.46				
3	16QAM	1	8	21.54	21.44	21.41	23	1		
3	16QAM	1	14	21.43	21.57	21.35				
3	16QAM	8	0	20.56	20.66	20.53	22	2		
3	16QAM	8	4	20.47	20.62	20.47				
3	16QAM	8	7	20.48	20.62	20.42				
3	16QAM	15	0	20.64	20.58	20.55				
3	64QAM	1	0	20.51	20.56	20.40	22	2		
3	64QAM	1	8	20.58	20.44	20.41				
3	64QAM	1	14	20.38	20.60	20.37				
3	64QAM	8	0	19.62	19.64	19.63	21	3		
3	64QAM	8	4	19.62	19.50	19.67				
3	64QAM	8	7	19.47	19.50	19.31				
3	64QAM	15	0	19.48	19.61	19.40				
3	256QAM	1	0	17.50	17.62	17.61	19	5		
3	256QAM	1	8	17.58	17.60	17.51				
3	256QAM	1	14	17.44	17.59	17.46				
3	256QAM	8	0	17.54	17.70	17.46	19	5		
3	256QAM	8	4	17.48	17.48	17.43				
3	256QAM	8	7	17.57	17.52	17.50				
3	256QAM	15	0	17.38	17.55	17.29				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.57	22.59	22.61	24	0		
1.4	QPSK	1	3	22.46	22.58	22.54				
1.4	QPSK	1	5	22.46	22.61	22.50				
1.4	QPSK	3	0	22.41	22.63	22.52	23	1		
1.4	QPSK	3	3	22.40	22.46	22.46				
1.4	QPSK	3	3	22.36	22.54	22.43				
1.4	QPSK	6	0	21.49	21.57	21.44	23	1		
1.4	16QAM	1	0	21.53	21.60	21.53	23	1		
1.4	16QAM	1	3	21.40	21.53	21.48				
1.4	16QAM	1	5	21.49	21.57	21.45				
1.4	16QAM	3	0	21.36	21.56	21.37	23	1		
1.4	16QAM	3	3	21.34	21.42	21.48				
1.4	16QAM	6	0	20.62	20.62	20.57	22	2		
1.4	64QAM	1	0	20.57	20.59	20.32	22	2		
1.4	64QAM	1	3	20.48	20.53	20.48				
1.4	64QAM	1	5	20.44	20.60	20.42				
1.4	64QAM	3	0	20.50	20.65	20.45	22	2		
1.4	64QAM	3	1	20.50	20.46	20.30				
1.4	64QAM	3	3	20.42	20.35	20.35				
1.4	64QAM	6	0	19.47	19.51	19.53	21	3		
1.4	256QAM	1	0	17.73	17.56	17.67				
1.4	256QAM	1	3	17.58	17.56	17.51	19	5		
1.4	256QAM	1	5	17.62	17.56	17.50				
1.4	256QAM	3	0	17.45	17.63	17.42				
1.4	256QAM	3	1	17.50	17.56	17.41				
1.4	256QAM	3	3	17.63	17.50	17.52				
1.4	256QAM	6	0	17.44	17.46	17.32	19	5		

Band 12 Ant 1 EC16										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.62	22.72	22.66	24	0		
10	QPSK	1	25	22.56	22.70	22.51				
10	QPSK	1	49	22.62	22.63	22.63				
10	QPSK	25	0	21.55	21.68	21.52	23	1		
10	QPSK	25	25	21.52	21.45	21.42				
10	QPSK	50	0	21.46	21.51	21.42				
10	16QAM	1	0	21.45	21.48	21.47	23	1		
10	16QAM	1	25	21.30	21.32	21.30				
10	16QAM	1	49	21.40	21.38	21.29				
10	16QAM	25	0	20.58	20.57	20.53	22	2		
10	16QAM	25	12	20.50	20.42	20.48				
10	16QAM	25	25	20.50	20.43	20.42				
10	16QAM	50	0	20.43	20.49	20.40				
10	64QAM	1	0	20.45	20.53	20.46	22	2		
10	64QAM	1	25	20.34	20.38	20.35				
10	64QAM	1	49	20.42	20.35	20.29				
10	64QAM	25	0	19.68	19.56	19.53				
10	64QAM	25	12	19.63	19.52	19.42	21	3		



Band 26 Ant 1 ECI6

Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				26765	26865	26965		
Frequency (MHz)								
15	QPSK	1	0	22.73	22.74	22.75		
15	QPSK	1	37	22.59	22.75	22.62	24	0
15	QPSK	1	74	22.62	22.73	22.71		
15	QPSK	36	0	21.74	21.76	21.72		
15	QPSK	36	20	21.71	21.68	21.68		
15	QPSK	36	39	21.60	21.71	21.58	23	1
15	QPSK	75	0	21.67	21.73	21.62		
15	16QAM	1	0	21.68	21.69	21.58		
15	16QAM	1	37	21.63	21.57	21.64	23	1
15	16QAM	1	74	21.57	21.66	21.55		
15	16QAM	36	0	20.79	20.76	20.73		
15	16QAM	36	20	20.68	20.72	20.62		
15	16QAM	36	39	20.63	20.74	20.55	22	2
15	16QAM	75	0	20.70	20.72	20.68		
15	64QAM	1	0	20.68	20.70	20.53		
15	64QAM	1	37	20.56	20.61	20.62	22	2
15	64QAM	1	74	20.52	20.72	20.57		
15	64QAM	36	0	19.77	19.70	19.76		
15	64QAM	36	20	19.68	19.64	19.72		
15	64QAM	36	39	19.63	19.69	19.63	21	3
15	64QAM	75	0	19.65	19.71	19.62		
15	256QAM	1	0	17.78	17.77	17.72		
15	256QAM	1	37	17.68	17.70	17.67	19	5
15	256QAM	1	74	17.58	17.68	17.59		
15	256QAM	36	0	17.67	17.77	17.62		
15	256QAM	36	20	17.69	17.71	17.54	19	5
15	256QAM	36	39	17.63	17.61	17.59		
15	256QAM	75	0	17.59	17.66	17.60		
Channel								
				26740	26865	26990		
Frequency (MHz)								
10	QPSK	1	0	22.70	22.72	22.64		
10	QPSK	1	25	22.48	22.69	22.58	24	0
10	QPSK	1	49	22.51	22.66	22.61		
10	QPSK	25	0	21.69	21.75	21.70		
10	QPSK	25	12	21.64	21.68	21.62	23	1
10	QPSK	25	24	21.55	21.66	21.54		
10	QPSK	50	0	21.58	21.68	21.51		
10	16QAM	1	0	21.66	21.65	21.46		
10	16QAM	1	25	21.61	21.46	21.57	23	1
10	16QAM	1	49	21.50	21.63	21.44		
10	16QAM	25	0	20.75	20.75	20.72		
10	16QAM	25	12	20.62	20.68	20.56	22	2
10	16QAM	25	24	20.58	20.71	20.47		
10	16QAM	50	0	20.67	20.70	20.65		
10	64QAM	1	0	20.67	20.61	20.42		
10	64QAM	1	25	20.63	20.51	20.52	22	2
10	64QAM	1	49	20.48	20.61	20.50		
10	64QAM	25	0	19.65	19.69	19.75		
10	64QAM	25	12	19.58	19.63	19.65	21	3
10	64QAM	25	24	19.62	19.60	19.43		
10	64QAM	50	0	19.63	19.68	19.59		
10	256QAM	1	0	17.75	17.69	17.61	19	5
10	256QAM	1	25	17.66	17.61	17.55		
10	256QAM	1	49	17.51	17.66	17.48		
10	256QAM	25	0	17.56	17.71	17.61	19	5
10	256QAM	25	12	17.60	17.67	17.53		
10	256QAM	25	24	17.52	17.58	17.57		
10	256QAM	50	0	17.57	17.54	17.39		
Channel								
				816.5	831.5	846.5		
Frequency (MHz)								
5	QPSK	1	0	22.66	22.74	22.63		
5	QPSK	1	12	22.53	22.73	22.54	24	0
5	QPSK	1	24	22.60	22.70	22.61		
5	QPSK	12	0	21.70	21.69	21.62		
5	QPSK	12	7	21.69	21.66	21.58	23	1
5	QPSK	12	13	21.59	21.61	21.52		
5	QPSK	25	0	21.66	21.64	21.51		
5	16QAM	1	0	21.61	21.63	21.53	23	1
5	16QAM	1	12	21.59	21.54	21.53		
5	16QAM	1	24	21.51	21.59	21.49		
5	16QAM	12	0	20.69	20.76	20.69		
5	16QAM	12	7	20.65	20.66	20.58	22	2
5	16QAM	12	13	20.61	20.69	20.46		
5	16QAM	25	0	20.66	20.64	20.58		
5	64QAM	1	0	20.65	20.59	20.46		
5	64QAM	1	12	20.65	20.60	20.55	22	2
5	64QAM	1	24	20.45	20.71	20.48		
5	64QAM	12	0	19.72	19.60	19.67		
5	64QAM	12	7	19.68	19.63	19.67	21	3
5	64QAM	12	13	19.62	19.66	19.52		
5	64QAM	25	0	19.65	19.61	19.57		
5	256QAM	1	0	17.73	17.76	17.65	19	5
5	256QAM	1	12	17.67	17.68	17.59		
5	256QAM	1	24	17.51	17.64	17.47		
5	256QAM	12	0	17.60	17.74	17.51	19	5
5	256QAM	12	7	17.57	17.61	17.44		
5	256QAM	12	13	17.54	17.56	17.56		
5	256QAM	25	0	17.56	17.59	17.41		
Channel								
				26705	26865	27025		
Frequency (MHz)								
3	QPSK	1	0	22.69	22.72	22.65		
3	QPSK	1	8	22.51	22.63	22.51	24	0
3	QPSK	1	14	22.57	22.64	22.59		
3	QPSK	8	0	21.71	21.69	21.62		
3	QPSK	8	4	21.65	21.68	21.68	23	1
3	QPSK	8	7	21.49	21.67	21.48		
3	QPSK	15	0	21.57	21.64	21.52		
3	16QAM	1	0	21.58	21.62	21.46	23	1
3	16QAM	1	8	21.55	21.48	21.54		
3	16QAM	1	14	21.51	21.60	21.55		
3	16QAM	8	0	20.77	20.74	20.72		
3	16QAM	8	4	20.62	20.72	20.61	22	2
3	16QAM	8	7	20.57	20.72	20.49		
3	16QAM	15	0	20.65	20.71	20.60		
3	64QAM	1	0	20.63	20.66	20.46		
3	64QAM	1	8	20.63	20.55	20.52	22	2
3	64QAM	1	14	20.46	20.71	20.49		
3	64QAM	8	0	19.74	19.69	19.66		
3	64QAM	8	4	19.66	19.58	19.66	21	3
3	64QAM	8	7	19.52	19.67	19.43		
3	64QAM	15	0	19.54	19.65	19.57		
3	256QAM	1	0	17.74	17.67	17.76		
3	256QAM	1	9	17.63	17.58	17.55	19	5
3	256QAM	1	14	17.46	17.66	17.59		
3	256QAM	8	0	17.65	17.74	17.60		
3	256QAM	8	4	17.61	17.68	17.46	19	5
3	256QAM	8	7	17.54	17.61	17.57		
3	256QAM	15	0	17.48	17.63	17.44		
Channel								
				26977	26965	27033		
Frequency (MHz)								
1.4	QPSK	1	0	22.62	22.73	22.66		
1.4	QPSK	1	3	22.59	22.65	22.58	24	0
1.4	QPSK	1	5	22.52	22.70	22.60		
1.4	QPSK	3	0	22.51	22.66	22.58		
1.4	QPSK	3	1	22.45	22.55	22.57		
1.4	QPSK	3	3	22.47	22.64	22.49		
1.4	QPSK	6	0	21.55	21.69	21.53	23	1
1.4	16QAM	1	0	21.61	21.68	21.57		
1.4	16QAM	1	3	21.54	21.57	21.58		
1.4	16QAM	1	5	21.57	21.64	21.54	23	1
1.4	16QAM	3	0	21.45	21.63	21.45		
1.4	16QAM	3	1	21.50	21.67	21.55		
1.4	16QAM	3	3	21.44	21.46	21.52		
1.4	16QAM	6	0	20.67	20.71	20.59	22	2
1.4	64QAM	1	0	20.66	20.64	20.44		
1.4	64QAM	1	3	20.59	20.58	20.59		
1.4	64QAM	1	5	20.49	20.63	20.49	22	2
1.4	64QAM	3	0	20.61	20.68	20.48		
1.4	64QAM	3	1	20.58	20.57	20.41		
1.4	64QAM	3	3	20.54	20.48	20.49		
1.4	64QAM	6	0	19.58	19.63	19.62	21	3
1.4	256QAM	1	0	17.76	17.66	17.69		
1.4	256QAM	1	3	17.67	17.65	17.57		
1.4	256QAM	1	5	17.58	17.62	17.57	19	5
1.4	256QAM	3	0	17.59	17.68	17.54		
1.4	256QAM	3	1	17.58	17.63	17.45		
1.4	256QAM	3						



GSM 1900 Ant 2 EC16		Burst Average Power (dBm)			Frame Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	912	915	918	921	912	915	918	
Frequency (MHz)	1862.2	1860	1859.8	1860	1862.2	1860	1859.8	
GPRS 4 Tx slots	25.20	25.22	25.17	26.00	22.20	22.22	22.17	
							23.00	

Band		WCDMA II Ant 2 EC16			WCDMA IV Ant 2 EC16			Tune-up Limit (dBm)
TX Channel	9262	9400	9538	9676	1312	1413	1513	
Rx Channel	9402	9400	9400	9400	1512	1413	1312	
Frequency (MHz)	1862.4	1860	1859.6	1859.2	1712.4	1732.6	1752.6	
3GPP Rel 99	RW-12.2Kbps	20.49	20.53	20.48	21.80	20.36	20.40	
							20.38	
							21.50	

Band 2 Ant 2 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				18700	18900	19100			
Frequency (MHz)									
				1860	1890	1920			
20	QPSK	1	0	18.71	18.74	18.68	20.2	0	

Band 4 Ant 2 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				20050	20175	20300			
Frequency (MHz)									
				1995	2022.5	2050			
20	QPSK	1	0	18.56	18.53	18.54	19.7	0	

Band 7 Ant 2 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				20400	21100	21350			
Frequency (MHz)									
				20310	2105	2060			
20	QPSK	1	0	21.03	20.03	19.93	21.2	0	

Band 38 Ant 2 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				37800	38000	38150			
Frequency (MHz)									
				37800	37950	38100			
20	QPSK	1	0	21.43	21.51	21.43	23	0	

Band 41 HPUE Ant 2 EC16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40100	40500	41000	41400		
Frequency (MHz)										
				39650	3997.5	40350	40800	41200		
20	QPSK	1	0	23.75	23.62	23.60	23.51	23.70	24.6	0

Band 66 Ant 2 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				132072	132322	132572			
Frequency (MHz)									
				1320	1325	1330			
20	QPSK	1	0	18.62	18.60	18.61	18.7	0	

Band 41 Ant 2 EC16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40100	40500	41000	41400		
Frequency (MHz)										
				39650	3997.5	40350	40800	41200		
20	QPSK	1	0	21.43	21.50	21.50	21.52	21.51	22	0



Band	WCDMA R4 Rev 3 ECI6			WCDMA R4 Rev 3 ECI6			Tune-up Limit (dBm)		
	Tx Channel	9462	9490	9638	1312	1413		1413	
Rx Channel	9662	9690	9938	1337	1438	1438			
Frequency (MHz)	1812.4	1840	1899.6	1974.4	1974.6	1974.4			
3GPP Rel 99	RNC 12-20kaps	18.38	19.45	19.42	20.70	19.75	19.79	19.72	21.00

Band 2 Ant 3 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									
				18700	18800	19100			
Frequency (MHz)				1863	1880	1903			
20	QPSK	1	0	19.82	19.70	19.63	21.8	0	

Band 4 Ant 3 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									
				20050	20150	20500			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	19.28	19.20	19.13	20.6	0	

Band 7 Ant 3 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									
				20800	21100	21300			
Frequency (MHz)				2310	2335	2360			
20	QPSK	1	0	18.48	18.06	18.51	19.9	0	

Band 38 Ant 3 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									
				37600	38000	38150			
Frequency (MHz)				2040	2050	2010			
20	QPSK	1	0	20.35	20.42	20.38	22.2	0	

Band 41 HPUE Ant 3 ECI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
				39700	40100	40600	41000	41400		
Frequency (MHz)				2240	2245.5	2253	2236.5	2260		
20	QPSK	1	0	22.69	22.74	22.77	22.70	22.71	23.8	0

Band 66 Ant 3 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									
				32072	32220	32572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	19.10	19.10	19.09	20.6	0	

Band 41 Ant 3 ECI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
				39700	40100	40600	41000	41400		
Frequency (MHz)				2040	2045.5	2053	2036.5	2060		
20	QPSK	1	0	20.41	20.43	20.49	20.46	20.44	22.2	0



Band 42 Part 27Q Ant 4 ECI6

Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mide Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				42160	42990	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	18.15	18.20	18.18		
20	QPSK	1	49	18.07	18.16	18.13	19.3	0
20	QPSK	1	99	18.09	18.08	18.13		
20	QPSK	50	0	18.04	18.10	18.06		
20	QPSK	50	24	18.05	18.09	18.07		
20	QPSK	50	50	18.01	18.07	18.04	19.3	0
20	QPSK	100	0	18.05	18.13	18.06		
20	16QAM	1	0	18.12	18.06	18.15		
20	16QAM	1	49	17.94	18.09	18.09	19.3	0
20	16QAM	1	99	18.05	17.97	18.00		
20	16QAM	50	0	17.95	18.09	17.97		
20	16QAM	50	24	17.95	18.02	17.99	19.3	0
20	16QAM	50	50	17.94	17.96	17.94		
20	16QAM	100	0	18.00	18.11	17.95		
20	64QAM	1	0	18.04	18.11	18.10		
20	64QAM	1	49	17.93	18.09	18.00	19.3	0
20	64QAM	1	99	17.95	18.07	18.00		
20	64QAM	50	0	17.92	18.11	18.01		
20	64QAM	50	24	17.93	17.98	18.01		
20	64QAM	50	50	17.90	17.97	18.00	19.3	0
20	64QAM	100	0	18.02	18.04	18.01		
20	256QAM	1	0	17.91	17.93	17.91		
20	256QAM	1	49	17.73	17.89	17.82	19	0.3
20	256QAM	1	99	17.76	17.83	17.78		
20	256QAM	50	0	17.72	17.83	17.81		
20	256QAM	50	24	17.70	17.79	17.81	19	0.3
20	256QAM	50	50	17.72	17.74	17.76		
20	256QAM	100	0	17.80	17.78	17.72		
Channel				42165	42990	43015		
Frequency (MHz)				3475.5	3500	3525.5		
15	QPSK	1	0	18.03	18.09	18.15		
15	QPSK	1	37	18.05	18.10	18.01	19.3	0
15	QPSK	1	74	17.99	17.98	18.09		
15	QPSK	36	0	17.95	18.04	17.99		
15	QPSK	36	20	18.03	18.03	17.96	19.3	0
15	QPSK	36	39	17.97	17.99	17.99		
15	QPSK	75	0	17.97	18.02	17.93		
15	16QAM	1	0	18.02	17.95	18.12		
15	16QAM	1	37	17.85	17.99	18.00	19.3	0
15	16QAM	1	74	17.96	17.88	17.87		
15	16QAM	36	0	17.87	18.07	17.95		
15	16QAM	36	20	17.82	17.86	17.91	19.3	0
15	16QAM	36	39	17.85	17.91	17.87		
15	16QAM	75	0	17.89	18.03	17.92		
15	64QAM	1	0	18.02	17.97	18.06		
15	64QAM	1	37	17.82	17.95	17.94	19.3	0
15	64QAM	1	74	17.84	18.04	18.04		
15	64QAM	36	0	17.89	18.07	17.92		
15	64QAM	36	20	17.79	17.84	17.93	19.3	0
15	64QAM	36	39	17.77	17.86	17.87		
15	64QAM	75	0	17.82	17.84	17.84		
15	256QAM	1	0	17.80	17.85	17.88		
15	256QAM	1	37	17.65	17.63	17.76	19	0.3
15	256QAM	1	74	17.66	17.73	17.70		
15	256QAM	36	0	17.58	17.70	17.77		
15	256QAM	36	20	17.68	17.68	17.68	19	0.3
15	256QAM	36	39	17.70	17.63	17.66		
15	256QAM	75	0	17.72	17.65	17.64		
Channel				42160	42990	43000		
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	18.06	18.06	18.07		
10	QPSK	1	25	18.04	18.07	18.07	19.3	0
10	QPSK	1	49	17.99	18.00	18.01		
10	QPSK	25	0	17.95	18.10	18.00		
10	QPSK	25	12	17.91	18.03	17.99	19.3	0
10	QPSK	25	25	17.91	17.94	17.95		
10	QPSK	50	0	18.02	18.00	17.98		
10	16QAM	1	0	18.03	17.95	18.05		
10	16QAM	1	25	17.87	18.03	18.02	19.3	0
10	16QAM	1	49	17.97	17.84	17.89		
10	16QAM	25	0	17.89	17.96	17.84		
10	16QAM	25	12	17.89	17.95	17.89	19.3	0
10	16QAM	25	25	17.88	17.88	17.84		
10	16QAM	50	0	17.98	18.01	17.95		
10	64QAM	1	0	17.94	17.99	17.97		
10	64QAM	1	25	17.80	18.07	17.88	19.3	0
10	64QAM	1	49	17.81	17.96	18.01		
10	64QAM	25	0	17.84	17.99	17.93		
10	64QAM	25	12	17.82	17.95	17.99	19.3	0
10	64QAM	25	25	17.87	17.88	17.93		
10	64QAM	50	0	17.89	17.93	17.87		
10	256QAM	1	0	17.87	17.80	17.81	19	0.3
10	256QAM	1	25	17.80	17.86	17.79		
10	256QAM	1	49	17.65	17.79	17.67		
10	256QAM	25	0	17.62	17.72	17.74		
10	256QAM	25	12	17.64	17.70	17.72	19	0.3
10	256QAM	25	25	17.67	17.71	17.68		
10	256QAM	50	0	17.70	17.73	17.65		
Channel				42115	42990	43005		
Frequency (MHz)				3492.5	3500	3547.5		
5	QPSK	1	0	18.07	18.06	18.04		
5	QPSK	1	12	18.02	18.10	18.01	19.3	0
5	QPSK	1	24	18.02	18.02	18.05		
5	QPSK	12	0	17.91	18.14	17.92		
5	QPSK	12	7	17.99	18.01	18.03	19.3	0
5	QPSK	12	13	17.94	17.99	17.98		
5	QPSK	25	0	17.99	18.09	18.00		
5	16QAM	1	0	18.03	17.96	18.07		
5	16QAM	1	12	17.91	18.05	18.03	19.3	0
5	16QAM	1	24	17.96	17.92	17.93		
5	16QAM	12	0	17.85	17.99	17.89		
5	16QAM	12	7	17.82	17.97	17.91	19.3	0
5	16QAM	12	13	17.86	17.88	17.80		
5	16QAM	25	0	17.87	18.05	17.91		
5	64QAM	1	0	17.91	18.05	18.02		
5	64QAM	1	12	17.90	18.00	17.97	19.3	0
5	64QAM	1	24	17.84	18.02	17.96		
5	64QAM	12	0	17.88	17.98	17.91		
5	64QAM	12	7	17.85	17.96	17.88	19.3	0
5	64QAM	12	13	17.78	17.85	17.93		
5	64QAM	25	0	17.89	17.84	17.96		
5	256QAM	1	0	17.81	17.81	17.80	19	0.3
5	256QAM	1	12	17.67	17.78	17.72		
5	256QAM	1	24	17.70	17.73	17.72		
5	256QAM	12	0	17.80	17.72	17.75		
5	256QAM	12	7	17.63	17.73	17.76	19	0.3
5	256QAM	12	13	17.72	17.71	17.64		
5	256QAM	25	0	17.69	17.70	17.69		



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Channel	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)							42160	42900	42999
Frequency (MHz)							3460	3500	3540
20	QPSK	1	0	22.71	22.77	22.75	23.7	0	
20	QPSK	1	49	22.60	22.65	22.64			
20	QPSK	1	99	22.63	22.72	22.68			
20	QPSK	50	0	22.09	22.12	22.08			
20	QPSK	50	24	21.90	21.91	21.90	23	0.7	
20	QPSK	50	50	21.97	22.04	22.03			
20	QPSK	100	0	22.00	22.08	22.06			
20	16QAM	1	0	21.98	22.06	22.00			
20	16QAM	1	49	21.78	21.87	21.82	23	0.7	
20	16QAM	1	99	21.82	21.94	21.87			
20	16QAM	50	0	21.11	21.10	21.11			
20	16QAM	50	24	20.90	20.85	20.85			
20	16QAM	50	50	20.97	21.03	20.98	22	1.7	
20	16QAM	100	0	20.97	21.10	21.12			
20	64QAM	1	0	20.88	21.05	20.98			
20	64QAM	1	49	20.75	20.87	20.86			
20	64QAM	1	99	20.92	20.92	20.93	22	1.7	
20	64QAM	50	0	20.07	20.14	20.05			
20	64QAM	50	24	19.92	19.94	19.94			
20	64QAM	50	50	20.03	19.99	20.02			
20	64QAM	100	0	20.02	20.12	20.07	21	2.7	
20	256QAM	1	0	18.03	18.10	18.06			
20	256QAM	1	49	17.85	17.91	17.89			
20	256QAM	1	99	18.02	18.05	17.98			
20	256QAM	50	0	17.97	18.03	18.00	19	4.7	
20	256QAM	50	24	18.02	18.05	17.96			
20	256QAM	50	50	17.82	17.83	17.87			
20	256QAM	100	0	17.95	17.98	17.98			
Channel							42165	42900	43015
Frequency (MHz)							347.5	3500	3542.5
15	QPSK	1	0	22.68	22.68	22.73	23.7	0	
15	QPSK	1	37	22.59	22.55	22.62			
15	QPSK	1	74	22.59	22.61	22.65			
15	QPSK	36	0	22.03	22.05	22.04			
15	QPSK	36	20	21.98	21.78	21.78	23	0.7	
15	QPSK	36	39	21.84	21.95	21.94			
15	QPSK	75	0	21.95	22.04	21.97			
15	16QAM	1	0	21.85	22.04	21.88			
15	16QAM	1	37	21.67	21.81	21.73	23	0.7	
15	16QAM	1	74	21.84	21.83	21.92			
15	16QAM	36	0	21.02	21.01	21.03			
15	16QAM	36	20	20.88	20.78	20.72			
15	16QAM	36	39	20.92	20.95	20.90	22	1.7	
15	16QAM	75	0	20.87	21.01	21.06			
15	16QAM	1	0	20.89	20.86	20.92			
15	64QAM	1	37	20.87	20.81	20.75			
15	64QAM	1	74	20.82	20.79	20.83	21	2.7	
15	64QAM	36	0	19.98	20.04	19.97			
15	64QAM	36	20	19.79	19.87	19.75			
15	64QAM	36	39	19.98	19.85	20.00			
15	64QAM	75	0	19.96	20.04	19.96	19	4.7	
15	256QAM	1	0	17.91	18.06	18.02			
15	256QAM	1	37	17.72	17.82	17.76			
15	256QAM	1	74	17.96	17.97	17.85			
15	256QAM	36	0	17.95	18.00	17.97	19	4.7	
15	256QAM	36	20	17.86	17.81	17.88			
15	256QAM	36	39	17.76	17.77	17.75			
15	256QAM	75	0	17.85	17.92	17.90			
Channel							42160	42900	43000
Frequency (MHz)							3465	3500	3545
10	QPSK	1	0	22.62	22.70	22.68	23.7	0	
10	QPSK	1	25	22.49	22.62	22.59			
10	QPSK	1	49	22.61	22.61	22.62			
10	QPSK	25	0	21.93	22.10	21.97			
10	QPSK	25	12	21.87	21.80	21.87	23	0.7	
10	QPSK	25	25	21.84	21.92	21.96			
10	QPSK	50	0	21.07	21.08	21.08			
10	16QAM	1	0	21.89	21.97	21.95			
10	16QAM	1	25	21.96	21.79	21.72	23	0.7	
10	16QAM	1	49	21.87	21.80	21.86			
10	16QAM	25	0	21.07	21.07	21.08			
10	16QAM	25	12	20.82	20.77	20.80			
10	16QAM	25	25	20.95	20.89	20.96	22	1.7	
10	16QAM	50	0	20.95	20.98	21.06			
10	64QAM	1	0	20.94	20.98	20.87			
10	64QAM	1	25	20.69	20.82	20.79			
10	64QAM	1	49	20.88	20.86	20.89	22	1.7	
10	64QAM	25	0	19.94	20.07	19.92			
10	64QAM	25	12	19.85	19.87	19.81			
10	64QAM	25	25	19.96	19.96	19.90			
10	256QAM	1	0	18.00	18.06	17.97	19	4.7	
10	256QAM	1	25	17.83	17.82	17.82			
10	256QAM	1	49	17.83	17.86	17.85			
10	256QAM	25	0	17.86	17.92	18.06			
10	256QAM	25	12	17.86	17.84	17.85	19	4.7	
10	256QAM	25	25	17.68	17.78	17.75			
10	256QAM	50	0	17.82	17.81	17.81			
Channel									42115
Frequency (MHz)							3462.5	3500	3547.5
5	QPSK	1	0	22.61	22.68	22.63	23.7	0	
5	QPSK	1	12	22.50	22.59	22.61			
5	QPSK	1	24	22.58	22.62	22.57			
5	QPSK	12	0	21.95	22.04	21.99			
5	QPSK	12	7	21.84	21.98	21.81	23	0.7	
5	QPSK	12	13	21.87	21.96	22.00			
5	QPSK	25	0	21.91	21.94	21.98			
5	16QAM	1	0	21.91	21.98	21.93			
5	16QAM	1	12	21.75	21.73	21.80	23	0.7	
5	16QAM	1	24	21.82	21.88	21.95			
5	16QAM	12	0	21.09	20.97	21.06			
5	16QAM	12	7	20.84	20.77	20.77			
5	16QAM	12	13	20.93	20.89	20.88	22	1.7	
5	16QAM	25	0	20.83	21.05	21.03			
5	64QAM	1	0	20.83	20.94	20.87			
5	64QAM	1	12	20.83	20.78	20.82			
5	64QAM	1	24	20.82	20.83	20.83	22	1.7	
5	64QAM	12	0	19.99	20.07	20.00			
5	64QAM	12	7	19.78	19.81	19.71			
5	64QAM	12	13	19.91	19.92	19.91			
5	64QAM	25	0	19.99	20.09	19.98	21	2.7	
5	256QAM	1	0	17.97	18.01	18.00			
5	256QAM	1	12	17.78	17.86	17.83			
5	256QAM	1	24	17.90	18.01	17.89			
5	256QAM	12	0	17.84	17.97	17.88	19	4.7	
5	256QAM	12	7	17.67	17.84	17.87			
5	256QAM	12	13	17.80	17.81	17.76			
5	256QAM	25	0	17.83	17.90	17.86			



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Channel	BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel					42160	42900	42990	21.9	0
Frequency (MHz)					3460	3500	3540		
20	QPSK	1	0	0	20.88	20.90	20.85	21.9	0
20	QPSK	1	49	0	20.82	20.86	20.77		
20	QPSK	1	99	0	20.80	20.83	20.76		
20	QPSK	50	0	0	20.84	20.87	20.79		
20	QPSK	50	24	0	20.80	20.86	20.82		
20	QPSK	50	50	0	20.77	20.78	20.75		
20	QPSK	100	0	0	20.77	20.83	20.77		
20	16QAM	1	0	0	20.79	20.80	20.74		
20	16QAM	1	49	0	20.69	20.79	20.73		
20	16QAM	1	99	0	20.67	20.78	20.63		
20	16QAM	50	0	0	20.73	20.77	20.74		
20	16QAM	50	24	0	20.73	20.82	20.71		
20	16QAM	50	50	0	20.67	20.69	20.66		
20	16QAM	100	0	0	20.66	20.73	20.69		
20	64QAM	1	0	0	20.86	20.80	20.74	21.9	0
20	64QAM	1	49	0	20.79	20.80	20.75		
20	64QAM	1	99	0	20.74	20.77	20.70		
20	64QAM	50	0	0	19.92	20.01	19.92		
20	64QAM	50	24	0	19.97	20.00	19.89		
20	64QAM	50	50	0	19.88	19.94	19.83		
20	64QAM	100	0	0	19.91	19.99	19.92		
20	256QAM	1	0	0	17.97	17.84	17.91		
20	256QAM	1	49	0	17.86	17.98	17.83		
20	256QAM	1	99	0	17.83	17.96	17.88		
20	256QAM	50	0	0	17.98	17.96	17.94		
20	256QAM	50	24	0	17.87	17.93	17.86		
20	256QAM	50	50	0	17.88	17.87	17.80		
20	256QAM	100	0	0	17.82	17.88	17.82		
Channel					42165	42900	43015	21.9	0.9
Frequency (MHz)					3457.5	3500	3542.5		
15	QPSK	1	0	0	20.80	20.78	20.73	21.9	0
15	QPSK	1	37	0	20.73	20.81	20.72		
15	QPSK	1	74	0	20.68	20.71	20.65		
15	QPSK	36	0	0	20.76	20.82	20.76		
15	QPSK	36	20	0	20.74	20.78	20.78		
15	QPSK	36	39	0	20.71	20.69	20.71		
15	QPSK	75	0	0	20.69	20.76	20.75		
15	16QAM	1	0	0	20.74	20.76	20.70		
15	16QAM	1	37	0	20.65	20.75	20.64		
15	16QAM	1	74	0	20.61	20.67	20.51		
15	16QAM	36	0	0	20.64	20.72	20.69		
15	16QAM	36	20	0	20.62	20.71	20.62		
15	16QAM	36	39	0	20.59	20.65	20.61		
15	16QAM	75	0	0	20.64	20.62	20.62		
15	16QAM	1	0	0	20.75	20.75	20.69		
15	16QAM	1	37	0	20.75	20.73	20.68		
15	64QAM	1	74	0	20.71	20.67	20.65		
15	64QAM	36	0	0	19.79	19.92	19.83		
15	64QAM	36	20	0	19.86	19.87	19.77		
15	64QAM	36	39	0	19.75	19.88	19.72		
15	64QAM	75	0	0	19.86	19.96	19.89		
15	256QAM	1	0	0	17.86	17.86	17.78		
15	256QAM	1	37	0	17.75	17.90	17.76		
15	256QAM	1	74	0	17.84	17.87	17.83		
15	256QAM	36	0	0	17.86	17.89	17.90		
15	256QAM	36	20	0	17.76	17.82	17.76		
15	256QAM	36	39	0	17.85	17.76	17.77		
15	256QAM	75	0	0	17.69	17.85	17.73		
Channel					42160	42900	43000	21.9	0
Frequency (MHz)					3465	3500	3445		
10	QPSK	1	0	0	20.78	20.82	20.72	21.9	0
10	QPSK	1	25	0	20.77	20.76	20.68		
10	QPSK	1	49	0	20.74	20.72	20.72		
10	QPSK	25	0	0	20.78	20.77	20.76		
10	QPSK	25	12	0	20.71	20.78	20.72		
10	QPSK	25	25	0	20.72	20.73	20.64		
10	QPSK	50	0	0	20.70	20.78	20.74		
10	16QAM	1	0	0	20.76	20.77	20.61		
10	16QAM	1	25	0	20.66	20.72	20.61		
10	16QAM	1	49	0	20.69	20.74	20.56		
10	16QAM	25	0	0	20.60	20.66	20.70		
10	16QAM	25	12	0	20.63	20.77	20.58		
10	16QAM	25	25	0	20.58	20.57	20.57		
10	16QAM	50	0	0	20.61	20.64	20.65		
10	64QAM	1	0	0	20.81	20.71	20.72		
10	64QAM	1	25	0	20.65	20.68	20.66		
10	64QAM	1	49	0	20.70	20.70	20.66		
10	64QAM	25	0	0	19.90	19.96	19.82		
10	64QAM	25	12	0	19.87	19.88	19.79		
10	64QAM	25	25	0	19.78	19.69	19.73		
10	64QAM	50	0	0	19.85	19.97	19.86		
10	256QAM	1	0	0	17.93	17.88	17.86		
10	256QAM	1	25	0	17.73	17.89	17.78		
10	256QAM	1	49	0	17.86	17.89	17.83		
10	256QAM	25	0	0	17.84	17.98	17.81		
10	256QAM	25	12	0	17.77	17.84	17.74		
10	256QAM	25	25	0	17.83	17.77	17.70		
10	256QAM	50	0	0	17.79	17.85	17.70		
Channel					42115	42900	43000	21.9	0
Frequency (MHz)					3462.5	3500	3547.5		
5	QPSK	1	0	0	20.80	20.78	20.81	21.9	0
5	QPSK	1	12	0	20.70	20.82	20.74		
5	QPSK	1	24	0	20.71	20.74	20.71		
5	QPSK	12	0	0	20.72	20.83	20.66		
5	QPSK	12	7	0	20.72	20.80	20.71		
5	QPSK	12	13	0	20.68	20.73	20.69		
5	QPSK	25	0	0	20.68	20.72	20.75		
5	16QAM	1	0	0	20.72	20.67	20.66		
5	16QAM	1	12	0	20.62	20.69	20.59		
5	16QAM	1	24	0	20.59	20.65	20.55		
5	16QAM	12	0	0	20.64	20.65	20.67		
5	16QAM	12	7	0	20.69	20.73	20.60		
5	16QAM	12	13	0	20.63	20.59	20.60		
5	16QAM	25	0	0	20.58	20.62	20.60		
5	64QAM	1	0	0	20.75	20.75	20.67		
5	64QAM	1	12	0	20.69	20.76	20.67		
5	64QAM	1	24	0	20.65	20.64	20.66		
5	64QAM	12	0	0	19.89	19.94	19.85		
5	64QAM	12	7	0	19.84	19.86	19.97		
5	64QAM	12	13	0	19.76	19.85	19.71		
5	64QAM	25	0	0	19.86	19.88	19.87		
5	256QAM	1	0	0	17.84	17.86	17.85		
5	256QAM	1	12	0	17.73	17.88	17.76		
5	256QAM	1	24	0	17.79	17.91	17.78		
5	256QAM	12	0	0	17.95	17.84	17.84		
5	256QAM	12	7	0	17.80	17.89	17.77		
5	256QAM	12	13	0	17.84	17.76	17.74		
5	256QAM	25	0	0	17.69	17.86	17.71		



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Channel	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				4240	4260	4280		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	23.44	23.47	23.38		
20	QPSK	1	49	23.33	23.37	23.29	24	0
20	QPSK	1	99	23.32	23.34	23.35		
20	QPSK	50	0	22.39	22.41	22.35		
20	QPSK	50	24	22.29	22.30	22.33		
20	QPSK	50	50	22.26	22.28	22.25	23	1
20	QPSK	100	0	22.29	22.30	22.21		
20	16QAM	1	0	22.35	22.34	22.22		
20	16QAM	1	49	22.19	22.19	22.30	23	1
20	16QAM	1	99	22.12	22.16	22.10		
20	16QAM	50	0	21.34	21.38	21.39		
20	16QAM	50	24	21.25	21.28	21.39		
20	16QAM	50	50	21.21	21.33	21.27	22	2
20	16QAM	100	0	21.21	21.37	21.18		
20	64QAM	1	0	21.35	21.33	21.20		
20	64QAM	1	49	21.19	21.23	21.33	22	2
20	64QAM	1	99	21.08	21.16	21.24		
20	64QAM	50	0	20.33	20.36	20.33		
20	64QAM	50	24	20.31	20.32	20.36		
20	64QAM	50	50	20.23	20.28	20.20	21	3
20	64QAM	100	0	20.34	20.38	20.26		
20	256QAM	1	0	18.43	18.40	18.33		
20	256QAM	1	49	18.26	18.33	18.33	19	5
20	256QAM	1	99	18.24	18.23	18.25		
20	256QAM	50	0	18.28	18.32	18.18		
20	256QAM	50	24	18.33	18.39	18.24	19	5
20	256QAM	50	50	18.16	18.23	18.26		
20	256QAM	100	0	18.12	18.12	18.22		
Channel				42165	42190	42115		
Frequency (MHz)				3475.5	3500	3525.5		
15	QPSK	1	0	23.31	23.40	23.27		
15	QPSK	1	37	23.20	23.32	23.22	24	0
15	QPSK	1	74	23.29	23.33	23.25		
15	QPSK	36	0	22.25	22.37	22.21		
15	QPSK	36	20	22.25	22.25	22.28	23	1
15	QPSK	36	39	22.17	22.25	22.13		
15	QPSK	75	0	22.24	22.29	22.14		
15	16QAM	1	0	22.32	22.25	22.13		
15	16QAM	1	37	22.12	22.08	22.17	23	1
15	16QAM	1	74	22.05	22.10	22.16		
15	16QAM	36	0	21.22	21.36	21.26		
15	16QAM	36	20	21.17	21.24	21.30	22	2
15	16QAM	36	39	21.17	21.19	21.24		
15	16QAM	75	0	21.19	21.30	21.13		
15	16QAM	1	0	21.31	21.23	21.12		
15	16QAM	1	37	21.14	21.10	21.21	22	2
15	64QAM	1	74	21.02	21.07	21.11		
15	64QAM	36	0	20.20	20.22	20.30		
15	64QAM	36	20	20.25	20.25	20.23	21	3
15	64QAM	36	39	20.18	20.22	20.08		
15	64QAM	75	0	20.20	20.31	20.18		
15	256QAM	1	0	18.38	18.31	18.28		
15	256QAM	1	37	18.19	18.06	18.25	19	5
15	256QAM	1	74	18.13	18.14	18.18		
15	256QAM	36	0	18.18	18.28	18.11		
15	256QAM	36	20	18.22	18.31	18.12	19	5
15	256QAM	36	39	18.12	18.12	18.16		
15	256QAM	75	0	18.02	18.06	18.12		
Channel				42165	42190	42115		
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	23.41	23.40	23.35		
10	QPSK	1	25	23.28	23.29	23.23	24	0
10	QPSK	1	49	23.22	23.22	23.27		
10	QPSK	25	0	22.26	22.37	22.24		
10	QPSK	25	12	22.20	22.23	22.30	23	1
10	QPSK	25	25	22.20	22.17	22.20		
10	QPSK	50	0	22.19	22.25	22.08		
10	16QAM	1	0	22.29	22.21	22.10		
10	16QAM	1	25	22.12	22.06	22.20	23	1
10	16QAM	1	49	22.05	22.05	22.16		
10	16QAM	25	0	21.27	21.28	21.28		
10	16QAM	25	12	21.12	21.24	21.31		
10	16QAM	25	25	21.16	21.25	21.25	22	2
10	16QAM	50	0	21.18	21.28	21.07		
10	64QAM	1	0	21.23	21.25	21.12		
10	64QAM	1	25	21.09	21.12	21.20	22	2
10	64QAM	1	49	21.00	21.05	21.17		
10	64QAM	25	0	20.29	20.23	20.22		
10	64QAM	25	12	20.23	20.22	20.26	21	3
10	64QAM	25	25	20.13	20.19	20.16		
10	256QAM	1	0	20.32	20.31	20.15		
10	256QAM	1	25	18.36	18.33	18.28	19	5
10	256QAM	1	49	18.13	18.20	18.25		
10	256QAM	25	0	18.06	18.06	18.15		
10	256QAM	25	12	18.20	18.31	18.16	19	5
10	256QAM	25	25	18.05	18.11	18.21		
10	256QAM	50	0	18.05	18.05	18.15		
Channel				42115	42190	42065		
Frequency (MHz)				3462.5	3500	3547.5		
5	QPSK	1	0	23.40	23.34	23.26		
5	QPSK	1	12	23.27	23.34	23.26	24	0
5	QPSK	1	24	23.28	23.25	23.28		
5	QPSK	12	0	22.33	22.28	22.26		
5	QPSK	12	7	22.21	22.17	22.30	23	1
5	QPSK	12	13	22.17	22.14	22.14		
5	QPSK	25	0	22.27	22.24	22.14		
5	16QAM	1	0	22.22	22.29	22.17	23	1
5	16QAM	1	12	22.10	22.07	22.27		
5	16QAM	1	24	22.05	22.04	22.11		
5	16QAM	12	0	21.21	21.33	21.31		
5	16QAM	12	7	21.14	21.23	21.37	22	2
5	16QAM	12	13	21.10	21.20	21.25		
5	16QAM	25	0	21.27	21.27	21.16		
5	64QAM	1	0	21.24	21.27	21.17		
5	64QAM	1	12	21.12	21.11	21.27	22	2
5	64QAM	1	24	20.39	21.14	21.16		
5	64QAM	12	0	20.31	20.29	20.26		
5	64QAM	12	7	20.23	20.26	20.23	21	3
5	64QAM	12	13	20.15	20.25	20.15		
5	64QAM	25	0	20.20	20.34	20.15		
5	256QAM	1	0	18.39	18.34	18.30	19	5
5	256QAM	1	12	18.21	18.24	18.30		
5	256QAM	1	24	18.15	18.20	18.18		
5	256QAM	12	0	18.23	18.27	18.13		
5	256QAM	12	7	18.28	18.32	18.10	19	5
5	256QAM	12	13	18.14	18.17	18.16		
5	256QAM	25	0	18.03	18.00	18.16		



Reduced Power Mode for ECI 9

GSM1900 Ant 0 ECI9		Burst Average Power (dBm)			Tune-up Limit		Frame Average Power (dBm)			Tune-up Limit	
TX Channel	158	188	251		178	189	251		178	189	251
Frequency (MHz)	842.2	836.4	848.8		842.2	836.4	848.8		842.2	836.4	848.8
GPWS # Tx slots	27.25	27.32	27.29		29.00	24.25	24.32		24.29	24.29	26.00

GSM1900 Ant 0 ECI9		Burst Average Power (dBm)			Tune-up Limit		Frame Average Power (dBm)			Tune-up Limit	
TX Channel	912	891	910		912	891	910		912	891	910
Frequency (MHz)	1892.5	1880	1909.5		1892.2	1880	1909.2		1892.2	1880	1909.2
GPWS # Tx slots	22.92	22.95	22.90		24.10	19.92	19.95		19.90	19.90	21.10

Band		WCDMA IV Ant 0 ECI9			Tune-up Limit		WCDMA IV Ant 0 ECI9			Tune-up Limit		WCDMA V Ant 0 ECI9		Tune-up Limit	
TX Channel	9662	9460	9658		9312	1418	1513		4192	4162	4233				
Frequency (MHz)	1892.4	1880	1907.6		1937	1938	1728		4397	4397	4406				
3GPP Rel 99	RW-12.3kops	15.85	15.88	15.82	17.00	18.40	18.50	18.45	19.70	24.18	24.22	24.17			25.00

Band 2 Ant 0 ECI9										
BW (MHz)	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)	20	1	0	18700	18800	19100	20.1	0		
GPWS				18700	18800	19100				

Band 4 Ant 0 ECI9										
BW (MHz)	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)	20	1	0	20060	20175	20300	22.5	0		
GPWS				20060	20175	20300				

Band 7 Ant 0 ECI9										
BW (MHz)	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)	20	1	0	20860	21100	21350	21.8	0		
GPWS				20860	21100	21350				

Band 38 Ant 0 ECI9										
BW (MHz)	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)	20	1	0	2950	2950	2910	22.5	0		
GPWS				2950	2950	2910				

Band 41 HPUE Ant 0 ECI9										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Low Middle Ch. Freq.	Power Middle Ch. Freq.	Power High Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)	20	1	0	2265	2265	2300	2310	2310	24.2	0
GPWS				2265	2265	2300	2310	2310		

Band 66 Ant 0 ECI9										
BW (MHz)	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)	20	1	0	132072	132322	132572	22.5	0		
GPWS				132072	132322	132572				

Band 41 Ant 0 ECI9										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Low Middle Ch. Freq.	Power Middle Ch. Freq.	Power High Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)	20	1	0	2174	2174	2170	2170	2170	22.5	0
GPWS				2174	2174	2170	2170	2170		



Band 5 Ant 0 EC19										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.97	22.98	22.97	24	0		
10	QPSK	1	25	22.92	23.03	22.90	24	0		
10	QPSK	1	49	23.02	23.09	22.87	24	0		
10	QPSK	25	0	21.99	22.01	21.95	23	1		
10	QPSK	25	25	21.84	21.99	21.93	23	1		
10	QPSK	25	25	21.94	21.97	21.95	23	1		
10	QPSK	50	0	21.95	21.99	21.92	23	1		
10	16QAM	1	0	21.90	21.91	21.91	23	1		
10	16QAM	1	25	20.76	20.95	20.67	22	2		
10	16QAM	1	49	21.87	21.88	21.79	22	2		
10	16QAM	25	0	21.03	21.03	20.94	22	2		
10	16QAM	25	12	20.86	20.97	20.85	22	2		
10	16QAM	25	25	20.91	21.02	20.94	22	2		
10	16QAM	50	0	20.87	21.08	20.98	22	2		
10	16QAM	1	0	20.83	21.03	20.79	22	2		
10	16QAM	1	25	20.76	20.96	20.67	21	3		
10	16QAM	1	49	20.79	20.84	20.77	21	3		
10	16QAM	25	0	19.93	19.99	20.00	19	5		
10	16QAM	25	12	19.93	19.97	19.94	19	5		
10	16QAM	25	25	19.85	19.97	19.80	19	5		
10	16QAM	50	0	19.99	20.01	19.95	19	5		
10	256QAM	1	0	17.92	18.00	17.98	19	5		
10	256QAM	1	25	17.86	17.97	17.91	19	5		
10	256QAM	1	49	17.87	17.96	17.89	19	5		
10	256QAM	25	0	18.04	17.98	17.92	19	5		
10	256QAM	25	12	17.82	17.96	17.90	19	5		
10	256QAM	25	25	17.80	17.82	17.82	19	5		
10	256QAM	50	0	17.88	17.87	17.76	19	5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.01	23.05	22.84	24	0		
5	QPSK	1	24	22.94	23.06	22.81	24	0		
5	QPSK	12	0	21.87	21.95	21.81	23	1		
5	QPSK	12	7	21.73	21.82	21.84	23	1		
5	QPSK	25	0	20.84	20.97	20.80	22	2		
5	QPSK	25	0	21.82	21.98	21.86	22	2		
5	16QAM	1	0	21.79	21.87	21.87	23	1		
5	16QAM	1	12	21.60	21.82	21.68	23	1		
5	16QAM	1	24	21.60	21.86	21.67	23	1		
5	16QAM	12	0	21.01	21.00	20.98	22	2		
5	16QAM	12	7	20.76	20.94	20.75	22	2		
5	16QAM	12	13	20.85	20.96	20.75	22	2		
5	16QAM	25	0	19.87	19.97	19.80	21	3		
5	16QAM	1	0	20.79	20.96	20.67	22	2		
5	16QAM	1	12	20.62	20.76	20.61	22	2		
5	16QAM	1	24	20.69	20.73	20.71	22	2		
5	16QAM	12	0	19.87	19.97	19.86	21	3		
5	16QAM	12	7	19.85	19.88	19.91	21	3		
5	16QAM	12	13	19.79	19.88	19.77	21	3		
5	16QAM	25	0	19.80	19.91	19.85	21	3		
5	256QAM	1	0	17.90	17.92	17.94	19	5		
5	256QAM	1	12	17.90	17.93	17.89	19	5		
5	256QAM	1	24	17.75	18.00	17.83	19	5		
5	256QAM	12	0	17.82	17.99	17.82	19	5		
5	256QAM	12	7	17.76	17.89	17.83	19	5		
5	256QAM	12	13	17.76	17.70	17.71	19	5		
5	256QAM	25	0	17.86	17.90	17.67	19	5		
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.97	22.98	22.87	24	0		
3	QPSK	1	8	22.88	22.93	22.81	24	0		
3	QPSK	1	14	22.97	23.01	22.79	24	0		
3	QPSK	8	0	21.94	21.95	21.91	23	1		
3	QPSK	8	4	21.81	21.86	21.90	23	1		
3	QPSK	8	7	21.91	21.87	21.86	23	1		
3	QPSK	15	0	21.87	21.91	21.78	23	1		
3	16QAM	1	0	21.82	21.90	21.82	23	1		
3	16QAM	1	8	21.65	21.88	21.67	23	1		
3	16QAM	1	14	21.76	21.77	21.69	23	1		
3	16QAM	8	0	20.85	20.97	20.86	22	2		
3	16QAM	8	4	20.74	20.88	20.76	22	2		
3	16QAM	8	7	20.83	20.94	20.78	22	2		
3	16QAM	15	0	20.85	20.95	20.95	22	2		
3	16QAM	1	0	20.69	20.94	20.70	22	2		
3	16QAM	1	8	20.72	20.75	20.55	22	2		
3	16QAM	1	14	20.69	20.75	20.64	22	2		
3	16QAM	8	0	19.89	19.95	19.94	21	3		
3	16QAM	8	4	19.89	19.94	19.92	21	3		
3	16QAM	8	7	19.81	19.91	19.80	21	3		
3	16QAM	15	0	19.88	19.90	19.93	21	3		
3	256QAM	1	0	17.86	17.98	17.84	19	5		
3	256QAM	1	8	17.87	17.84	17.81	19	5		
3	256QAM	1	14	17.84	17.97	17.80	19	5		
3	256QAM	8	0	17.99	17.89	17.87	19	5		
3	256QAM	8	4	17.70	17.88	17.87	19	5		
3	256QAM	8	7	17.69	17.77	17.73	19	5		
3	256QAM	15	0	17.81	17.86	17.72	19	5		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.04	23.05	22.91	24	0		
1.4	QPSK	1	3	22.82	22.99	22.95	24	0		
1.4	QPSK	1	5	22.89	23.03	22.87	24	0		
1.4	QPSK	3	0	22.07	22.90	22.77	23	1		
1.4	QPSK	3	3	22.67	22.99	22.81	23	1		
1.4	QPSK	3	3	22.80	22.80	22.82	23	1		
1.4	QPSK	6	0	21.85	21.93	21.88	23	1		
1.4	16QAM	1	0	21.85	21.93	21.82	23	1		
1.4	16QAM	3	1	21.73	21.80	21.79	23	1		
1.4	16QAM	3	3	21.55	21.81	21.67	23	1		
1.4	16QAM	6	0	20.85	21.03	20.95	22	2		
1.4	16QAM	1	0	20.73	20.85	20.82	22	2		
1.4	16QAM	1	3	20.69	20.79	20.53	22	2		
1.4	16QAM	1	5	20.60	20.82	20.78	22	2		
1.4	16QAM	3	0	20.67	20.95	20.79	22	2		
1.4	16QAM	3	1	20.68	20.87	20.65	22	2		
1.4	16QAM	3	3	20.58	20.52	20.49	21	3		
1.4	16QAM	6	0	19.83	19.89	19.87	21	3		
1.4	256QAM	1	0	17.95	17.82	17.87	19	5		
1.4	256QAM	1	3	17.79	17.79	17.78	19	5		
1.4	256QAM	1	5	17.60	17.86	17.69	19	5		
1.4	256QAM	3	0	17.91	17.88	17.94	19	5		
1.4	256QAM	3	1	17.90	17.83	17.89	19	5		
1.4	256QAM	3	3	17.65	17.78	17.72	19	5		
1.4	256QAM	6	0	17.72	17.80	17.81	19	5		

Band 12 Ant 0 EC19										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.04	23.05	22.91	24	0		
10	QPSK	1	25	22.98	23.01	22.98	24	0		
10	QPSK	1	49	23.02	23.00	23.03	24	0		
10	QPSK	25	0	21.92	21.95	21.95	23	1		
10	QPSK	25	25	21.85	21.94	21.90	23	1		
10	QPSK	50	0	21.87	21.91	21.87	23	1		
10	16QAM	1	0	21.83	21.86	21.82	23	1		
10	16QAM	1	25	21.77	21.82	21.73	23	1		
10	16QAM	1	49	21.77	21.88	21.81	23	1		
10	16QAM	25	0	20.93	20.94	21.00	22	2		
10	16QAM	25	12	20.80	20.80	20.86	22	2		
10	16QAM	25	25	20.92	20.94	20.87	22	2		
10	16QAM	50	0	20.88	20.95	20.85	22	2		
10	16QAM	1	0	20.88	20.89	20.83	22	2		
10	16QAM	1	25	20.85	20.79	20.76	22	2		
10	16QAM	1	49	20.78	20.85	20.87	2			



Band 26 Ant 0 ECI9

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				26765	26865	26965		
15	QPSK	1	0	23.12	23.15	23.03	24	0
15	QPSK	1	37	22.99	23.09	23.04		
15	QPSK	1	74	23.08	23.12	22.95		
15	QPSK	36	0	22.06	22.10	22.08	23	1
15	QPSK	36	20	21.96	22.02	21.97		
15	QPSK	36	39	21.99	22.03	21.98		
15	QPSK	75	0	22.02	22.06	22.03		
15	16QAM	1	0	21.98	22.03	21.96	23	1
15	16QAM	1	37	21.87	21.96	21.85		
15	16QAM	1	74	21.90	21.96	21.86		
15	16QAM	36	0	21.11	21.07	21.04		
15	16QAM	36	20	20.91	21.00	20.98	22	2
15	16QAM	36	39	20.95	21.09	20.95		
15	16QAM	75	0	21.01	21.12	21.06		
15	64QAM	1	0	20.83	21.08	20.83	22	2
15	64QAM	1	37	20.88	20.92	20.89		
15	64QAM	1	74	20.87	20.97	20.88		
15	64QAM	36	0	20.04	20.07	20.03	21	3
15	64QAM	36	20	20.01	20.07	20.03		
15	64QAM	36	39	19.98	20.08	19.97		
15	64QAM	75	0	20.01	20.04	20.05		
15	256QAM	1	0	18.05	18.04	18.06	19	5
15	256QAM	1	37	18.02	18.01	17.99		
15	256QAM	1	74	18.01	18.09	17.92		
15	256QAM	36	0	18.07	18.02	18.04	19	5
15	256QAM	36	20	17.95	18.04	18.03		
15	256QAM	36	39	17.85	17.96	17.91		
15	256QAM	75	0	17.91	18.01	17.91		
Channel								
Frequency (MHz)				26740	26865	26990		
10	QPSK	1	0	22.99	23.05	23.03	24	0
10	QPSK	1	25	22.90	23.05	22.99		
10	QPSK	1	49	23.01	23.05	22.83		
10	QPSK	25	0	21.99	22.02	21.97	23	1
10	QPSK	25	12	21.85	21.88	21.89		
10	QPSK	25	24	21.83	21.85	21.80		
10	QPSK	50	0	21.97	21.95	21.95		
10	16QAM	1	0	21.92	21.98	21.93	23	1
10	16QAM	1	25	21.84	21.86	21.74		
10	16QAM	1	49	21.83	21.89	21.75		
10	16QAM	25	0	21.03	21.04	20.95	22	2
10	16QAM	25	12	20.77	20.88	20.83		
10	16QAM	25	24	20.67	20.86	20.84		
10	16QAM	50	0	20.87	21.05	21.03		
10	64QAM	1	0	20.87	21.00	20.85	22	2
10	64QAM	1	25	20.76	20.89	20.74		
10	64QAM	1	49	20.84	20.85	20.74		
10	64QAM	25	0	19.85	19.85	19.85	21	3
10	64QAM	25	12	19.89	20.01	19.81		
10	64QAM	25	24	19.85	19.97	19.82		
10	256QAM	1	0	18.99	18.95	20.83	19	5
10	256QAM	1	25	17.93	17.91	17.93		
10	256QAM	1	49	17.97	18.00	17.79		
10	256QAM	25	0	17.86	17.94	17.84	19	5
10	256QAM	25	12	17.81	18.02	17.90		
10	256QAM	25	24	17.83	17.91	17.78		
10	256QAM	50	0	17.80	17.93	17.75		
Channel								
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	23.00	23.09	23.04	24	0
5	QPSK	1	12	22.96	23.03	22.96		
5	QPSK	1	24	22.96	22.99	22.84		
5	QPSK	12	0	22.03	22.02	21.99	23	1
5	QPSK	12	7	21.86	21.93	21.92		
5	QPSK	12	13	21.96	21.93	21.88		
5	QPSK	25	0	21.88	21.86	21.91	23	1
5	16QAM	1	0	21.86	21.93	21.88		
5	16QAM	1	12	21.75	21.92	21.74	22	2
5	16QAM	1	24	21.83	21.85	21.83		
5	16QAM	12	0	21.96	20.97	20.95		
5	16QAM	12	7	20.89	20.87	20.87		
5	16QAM	12	13	20.89	20.88	20.87		
5	16QAM	25	0	20.95	21.01	20.95	22	2
5	64QAM	1	0	20.90	21.03	20.89	21	3
5	64QAM	1	12	20.83	20.83	20.68		
5	64QAM	1	24	20.75	20.92	20.83		
5	64QAM	12	0	19.99	19.95	20.01		
5	64QAM	12	7	19.89	20.05	20.00		
5	64QAM	12	13	19.91	19.96	19.86		
5	256QAM	1	0	19.93	19.94	19.92	19	5
5	256QAM	1	12	17.95	17.92	17.95		
5	256QAM	1	24	17.84	18.04	17.89		
5	256QAM	12	0	17.84	17.97	17.95		
5	256QAM	12	7	17.85	17.88	18.00		
5	256QAM	12	13	17.72	17.85	17.84		
5	256QAM	25	0	17.84	17.95	17.70		
Channel								
Frequency (MHz)				26705	26865	27025		
3	QPSK	1	0	23.03	23.08	22.93	24	0
3	QPSK	1	8	22.93	23.03	22.91		
3	QPSK	1	14	23.06	23.09	22.90		
3	QPSK	8	0	22.02	22.01	21.97	23	1
3	QPSK	8	4	21.82	21.95	21.82		
3	QPSK	8	7	21.85	22.01	21.87		
3	QPSK	15	0	21.95	21.95	22.00	23	1
3	16QAM	1	0	21.87	21.90	21.90		
3	16QAM	1	8	21.85	21.88	21.77	22	2
3	16QAM	1	14	21.77	21.90	21.76		
3	16QAM	8	0	21.01	20.93	20.94		
3	16QAM	8	4	20.88	20.89	20.87		
3	16QAM	8	7	20.91	21.06	20.83		
3	16QAM	15	0	20.94	21.07	20.83	22	2
3	64QAM	1	0	20.80	21.04	20.81		
3	64QAM	1	8	20.76	20.91	20.75		
3	64QAM	1	14	20.82	20.86	20.74		
3	64QAM	8	0	19.96	20.02	19.96	21	3
3	64QAM	8	4	19.89	19.95	19.97		
3	64QAM	8	7	19.91	19.98	19.94		
3	256QAM	1	0	17.97	17.81	18.02	19	5
3	256QAM	1	8	18.00	17.96	17.95		
3	256QAM	1	14	17.90	18.01	17.84		
3	256QAM	8	0	18.00	17.90	17.94		
3	256QAM	8	4	17.87	18.01	17.95		
3	256QAM	8	7	17.76	17.92	17.89		
3	256QAM	15	0	17.80	17.88	17.68		
Channel								
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	23.09	23.03	22.98	24	0
1.4	QPSK	1	3	22.97	23.07	23.01		
1.4	QPSK	1	5	23.01	23.07	22.91		
1.4	QPSK	3	0	23.03	23.01	22.90	23	1
1.4	QPSK	3	1	22.81	23.05	22.92		
1.4	QPSK	3	3	22.91	22.98	22.88		
1.4	QPSK	6	0	21.89	22.00	22.00	22	2
1.4	16QAM	1	0	21.94	22.00	21.90		
1.4	16QAM	1	3	21.75	21.91	21.83	23	1
1.4	16QAM	1	5	21.87	21.87	21.75		
1.4	16QAM	3	0	21.77	21.90	21.87		
1.4	16QAM	3	1	21.85	21.89	21.84		
1.4	16QAM	3	3	21.65	21.83	21.71	22	2
1.4	16QAM	6	0	20.88	21.07	21.01		
1.4	64QAM	1	0	20.82	20.97	20.88		
1.4	64QAM	1	3	20.74	20.94	20.83	22	2
1.4	64QAM	1	5	20.74	20.94	20.83		
1.4	64QAM	3	0	20.77	20.99	20.89		
1.4	64QAM	3	1	20.74	20.95	20.78		
1.4	64QAM	3	3	20.79	20.73	20.59		
1.4	256QAM	1	0	18.87	18.97	18.86	21	3
1.4	256QAM	1	3	17.92	17.89	17.87		
1.4	256QAM	1	5	17.95	18.01	17.82	19	5
1.4	256QAM	3	0	18.02	17.93	18.02		
1.4	256QAM	3	1	17.92	17.93	17.95		
1.4	256QAM	3	3	17.72	17.84	17.77		
1.4	256QAM	6	0	17.81	17.94	17.69	19	5



DSMB80 Ant 1 EC19	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	185	261		Limit	185	261	
Frequency (MHz)	848.2	836.4	848.8	804.2	836.4	848.8		
GPRS 4 Tx slots	27.38	27.43	27.39	29.00	24.38	24.43	24.39	26.00

Band	WCDMA III Ant 1 EC19				WCDMA IV Ant 1 EC19				WCDMA V Ant 1 EC19				
	TX Channel	9682	9600	9698	Tune-up Limit (dBm)	1312	1413	1513	Tune-up Limit (dBm)	4192	4162	4203	Tune-up Limit (dBm)
Frequency (MHz)	1852.4	1860	1859.6	1830	1792.4	1792.6	1762.6	19.10	2419	2447	2448	25.00	
3GPP Ref 99	RW-12.2Kbps	16.89	16.92	16.85	18.30	17.65	17.88	17.86	19.10	24.19	24.25	24.13	25.00

Band 2 Ant 1 EC19										
BW (MHz)	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)				18700	18900	19100				
20	QPSK	1	0	18.24	18.30	18.26	19.5	0		

Band 4 Ant 1 EC19										
BW (MHz)	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)				20050	20175	20300				
20	QPSK	1	0	18.26	18.25	18.45	19.5	0		

Band 7 Ant 1 EC19										
BW (MHz)	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)				2515	2535	2560				
20	QPSK	1	0	20.18	20.23	20.21	21.5	0		

Band 38 Ant 1 EC19										
BW (MHz)	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)				3780	3800	3815				
20	QPSK	1	0	13.24	13.23	13.22	20.9	0		

Band 66 Ant 1 EC19										
BW (MHz)	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)				132072	132322	132572				
20	QPSK	1	0	18.25	18.25	18.35	19.8	0		

Band 41 Ant 1 EC19										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	18.84	18.83	18.70	18.65	18.68	20.9	0

Band 41 HPUE Ant 1 EC19										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				2505	2548.5	2593	2638.5	2683		
20	QPSK	1	0	20.09	20.08	20.00	20.00	20.00	22.5	0



Band 5 Ant 1 EC19										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.67	22.67	22.67	24	0		
10	QPSK	1	25	22.56	22.70	22.54				
10	QPSK	1	49	22.51	22.67	22.66				
10	QPSK	25	0	21.69	21.74	21.66	23	1		
10	QPSK	25	25	21.63	21.83	21.68				
10	QPSK	25	25	21.49	21.66	21.48				
10	QPSK	50	0	21.65	21.70	21.55				
10	16QAM	1	0	21.68	21.58	21.53	23	1		
10	16QAM	1	25	21.59	21.47	21.53				
10	16QAM	1	49	21.47	21.60	21.45				
10	16QAM	25	0	20.68	20.75	20.66				
10	16QAM	25	12	20.67	20.71	20.60				
10	16QAM	25	25	20.52	20.69	20.54	22	2		
10	16QAM	50	0	20.66	20.64	20.45				
10	64QAM	1	0	20.63	20.66	20.45	22	2		
10	64QAM	1	25	20.61	20.54	20.52				
10	64QAM	1	49	20.43	20.69	20.48				
10	64QAM	25	0	19.74	19.67	19.66				
10	64QAM	25	12	19.59	19.62	19.70				
10	64QAM	25	25	19.61	19.57	19.44	21	3		
10	64QAM	50	0	19.59	19.70	19.52				
10	256QAM	1	0	17.76	17.69	17.65				
10	256QAM	1	25	17.65	17.69	17.56	19	5		
10	256QAM	1	49	17.61	17.61	17.52				
10	256QAM	25	0	17.61	17.75	17.54				
10	256QAM	25	12	17.64	17.61	17.52	19	5		
10	256QAM	25	25	17.60	17.59	17.59				
10	256QAM	50	0	17.49	17.44	17.42				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.65	22.85	22.59	24	0		
5	QPSK	1	24	22.43	22.58	22.56				
5	QPSK	12	0	21.60	21.68	21.64	23	1		
5	QPSK	12	7	21.54	21.55	21.57				
5	QPSK	25	0	20.61	20.58	20.52	23	1		
5	QPSK	25	0	21.53	21.61	21.50				
5	16QAM	1	0	21.56	21.51	21.43	23	1		
5	16QAM	1	12	21.56	21.35	21.44				
5	16QAM	12	24	21.35	21.51	21.47				
5	16QAM	12	0	20.50	20.65	20.50	22	2		
5	16QAM	12	7	20.48	20.68	20.48				
5	16QAM	12	13	20.44	20.66	20.42				
5	16QAM	25	0	20.51	20.59	20.56	22	2		
5	64QAM	1	0	20.51	20.58	20.42				
5	64QAM	1	12	20.51	20.41	20.49	22	2		
5	64QAM	1	24	20.36	20.63	20.46				
5	64QAM	12	0	19.67	19.57	19.53	21	3		
5	64QAM	12	7	19.45	19.50	19.67				
5	64QAM	12	13	19.48	19.45	19.38				
5	16QAM	25	0	19.61	19.64	19.49	19	5		
5	256QAM	1	0	17.69	17.56	17.58				
5	256QAM	1	12	17.63	17.56	17.47	19	5		
5	256QAM	1	24	17.40	17.55	17.44				
5	256QAM	12	0	17.41	17.61	17.46	19	5		
5	256QAM	12	7	17.57	17.48	17.44				
5	256QAM	12	13	17.48	17.50	17.54				
5	256QAM	25	0	17.26	17.67	17.36				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.67	22.61	22.66	24	0		
3	QPSK	1	8	22.43	22.61	22.41				
3	QPSK	1	14	22.46	22.54	22.63				
3	QPSK	8	0	21.63	21.71	21.58	23	1		
3	QPSK	8	4	21.51	21.50	21.54				
3	QPSK	8	7	21.39	21.57	21.37				
3	16QAM	1	0	21.63	21.66	21.44	23	1		
3	16QAM	1	0	21.54	21.45	21.46				
3	16QAM	1	8	21.54	21.44	21.41				
3	16QAM	1	14	21.43	21.57	21.35				
3	16QAM	8	0	20.55	20.66	20.53	22	2		
3	16QAM	8	4	20.47	20.62	20.47				
3	16QAM	8	7	20.48	20.62	20.42				
3	16QAM	15	0	20.64	20.58	20.55				
3	64QAM	1	0	20.51	20.56	20.40	22	2		
3	64QAM	1	8	20.58	20.44	20.41				
3	64QAM	1	14	20.38	20.60	20.37				
3	64QAM	8	0	19.62	19.64	19.63	21	3		
3	64QAM	8	4	19.62	19.50	19.67				
3	64QAM	8	7	19.47	19.50	19.31				
3	64QAM	15	0	19.48	19.61	19.40				
3	256QAM	1	0	17.50	17.62	17.61	19	5		
3	256QAM	1	8	17.58	17.60	17.51				
3	256QAM	1	14	17.44	17.59	17.46				
3	256QAM	8	0	17.54	17.70	17.46	19	5		
3	256QAM	8	4	17.48	17.48	17.43				
3	256QAM	8	7	17.57	17.52	17.50				
3	256QAM	15	0	17.38	17.55	17.29				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.57	22.59	22.61	24	0		
1.4	QPSK	1	3	22.46	22.58	22.54				
1.4	QPSK	1	5	22.46	22.61	22.50				
1.4	QPSK	3	0	22.41	22.63	22.52	23	1		
1.4	QPSK	3	3	22.40	22.46	22.46				
1.4	QPSK	3	3	22.36	22.54	22.43				
1.4	QPSK	6	0	21.49	21.57	21.44	23	1		
1.4	16QAM	1	0	21.53	21.60	21.53	23	1		
1.4	16QAM	1	0	21.40	21.53	21.48				
1.4	16QAM	1	5	21.49	21.57	21.45				
1.4	16QAM	3	0	21.36	21.56	21.37				
1.4	16QAM	3	3	21.34	21.42	21.48	22	2		
1.4	16QAM	6	0	20.62	20.62	20.57				
1.4	64QAM	1	0	20.57	20.59	20.32	22	2		
1.4	64QAM	1	3	20.49	20.53	20.48				
1.4	64QAM	1	5	20.44	20.60	20.42				
1.4	64QAM	3	0	20.50	20.65	20.45				
1.4	64QAM	3	1	20.50	20.46	20.30	21	3		
1.4	64QAM	3	3	20.42	20.35	20.35				
1.4	64QAM	6	0	19.47	19.51	19.53	21	3		
1.4	256QAM	1	0	17.73	17.56	17.67				
1.4	256QAM	1	3	17.58	17.56	17.51	19	5		
1.4	256QAM	1	5	17.62	17.56	17.50				
1.4	256QAM	3	0	17.45	17.63	17.42				
1.4	256QAM	3	1	17.50	17.56	17.41				
1.4	256QAM	3	1	17.63	17.50	17.52				
1.4	256QAM	6	0	17.44	17.46	17.32	19	5		

Band 12 Ant 1 EC19										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.67	22.67	22.66	24	0		
10	QPSK	1	25	22.56	22.70	22.51				
10	QPSK	1	49	22.62	22.63	22.63				
10	QPSK	25	0	21.55	21.68	21.52	23	1		
10	QPSK	25	25	21.52	21.45	21.42				
10	QPSK	50	0	21.46	21.51	21.42				
10	16QAM	1	0	21.45	21.48	21.47	23	1		
10	16QAM	1	25	21.30	21.32	21.30				
10	16QAM	1	49	21.40	21.38	21.29				
10	16QAM	25	0	20.58	20.57	20.53	22	2		
10	16QAM	25	12	20.50	20.42	20.48				
10	16QAM	25	25	20.50	20.43	20.42				
10	16QAM	50	0	20.43	20.49	20.40				
10	64QAM	1	0	20.45	20.53	20.46	22	2		
10	64QAM	1	25	20.34	20.38	20.35				
10	64QAM	1	49	20.42	20.35	20.29				
10	64QAM	25	0	19.68	19.56	19.53				
10	64QAM	25	12	19.63	19.52	19.42	21	3		
10										



Band 26 Ant 1 ECI9

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				821.3	831.5	841.5		
15	QPSK	1	0	22.73	22.74	22.75	24	0
15	QPSK	1	37	22.59	22.75	22.62		
15	QPSK	1	74	22.62	22.73	22.71		
15	QPSK	36	0	21.74	21.76	21.72	23	1
15	QPSK	36	20	21.71	21.68	21.68		
15	QPSK	36	39	21.60	21.71	21.58		
15	QPSK	75	0	21.67	21.73	21.62	23	1
15	QPSK	1	0	21.68	21.69	21.58		
15	16QAM	1	37	21.63	21.57	21.64		
15	16QAM	1	74	21.57	21.66	21.55	22	2
15	16QAM	36	0	20.79	20.76	20.73		
15	16QAM	36	20	20.68	20.72	20.62		
15	16QAM	36	39	20.63	20.74	20.55	22	2
15	16QAM	75	0	20.70	20.72	20.68		
15	64QAM	1	0	20.68	20.70	20.63		
15	64QAM	1	37	20.56	20.61	20.62	22	2
15	64QAM	1	74	20.52	20.72	20.57		
15	64QAM	36	0	19.77	19.70	19.76		
15	64QAM	36	20	19.68	19.64	19.72	21	3
15	64QAM	36	39	19.63	19.69	19.63		
15	64QAM	75	0	19.65	19.71	19.62		
15	256QAM	1	0	17.78	17.77	17.72	19	5
15	256QAM	1	37	17.68	17.70	17.67		
15	256QAM	1	74	17.58	17.68	17.59		
15	256QAM	36	0	17.67	17.77	17.62	19	5
15	256QAM	36	20	17.69	17.71	17.54		
15	256QAM	36	39	17.63	17.61	17.59		
15	256QAM	75	0	17.59	17.66	17.60		
Channel								
Frequency (MHz)				267.60	268.65	269.60		
10	QPSK	1	0	22.70	22.72	22.64	24	0
10	QPSK	1	25	22.48	22.69	22.58		
10	QPSK	1	49	22.51	22.66	22.61		
10	QPSK	25	0	21.69	21.75	21.70	23	1
10	QPSK	25	12	21.64	21.68	21.62		
10	QPSK	25	24	21.55	21.66	21.54		
10	QPSK	50	0	21.58	21.68	21.51	23	1
10	16QAM	1	0	21.66	21.65	21.46		
10	16QAM	1	25	21.61	21.46	21.57		
10	16QAM	1	49	21.50	21.63	21.44	22	2
10	16QAM	25	0	20.75	20.75	20.72		
10	16QAM	25	12	20.62	20.68	20.56		
10	16QAM	25	24	20.58	20.71	20.47	22	2
10	16QAM	50	0	20.67	20.70	20.65		
10	64QAM	1	0	20.67	20.61	20.42		
10	64QAM	1	25	20.63	20.51	20.52	22	2
10	64QAM	1	49	20.48	20.61	20.50		
10	64QAM	25	0	19.65	19.69	19.75		
10	64QAM	25	12	19.58	19.63	19.65	21	3
10	64QAM	25	24	19.62	19.60	19.43		
10	64QAM	50	0	19.63	19.68	19.59		
10	256QAM	1	0	17.75	17.69	17.61	19	5
10	256QAM	1	25	17.66	17.61	17.56		
10	256QAM	1	49	17.51	17.66	17.48		
10	256QAM	25	0	17.56	17.71	17.61	19	5
10	256QAM	25	12	17.60	17.67	17.53		
10	256QAM	25	24	17.52	17.58	17.57		
10	256QAM	50	0	17.57	17.54	17.39		
Channel								
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.66	22.74	22.63	24	0
5	QPSK	1	12	22.53	22.73	22.54		
5	QPSK	1	24	22.60	22.70	22.61		
5	QPSK	12	0	21.70	21.69	21.62	23	1
5	QPSK	12	7	21.69	21.66	21.58		
5	QPSK	12	13	21.59	21.61	21.52		
5	QPSK	25	0	21.66	21.64	21.51	23	1
5	16QAM	1	0	21.61	21.63	21.53		
5	16QAM	1	12	21.59	21.54	21.53		
5	16QAM	1	24	21.51	21.59	21.49	22	2
5	16QAM	12	0	20.69	20.76	20.69		
5	16QAM	12	7	20.65	20.66	20.58		
5	16QAM	12	13	20.61	20.69	20.46	22	2
5	16QAM	25	0	20.66	20.64	20.58		
5	64QAM	1	0	20.65	20.68	20.46		
5	64QAM	1	12	20.65	20.60	20.55	22	2
5	64QAM	1	24	20.45	20.71	20.48		
5	64QAM	12	0	19.72	19.60	19.67		
5	64QAM	12	7	19.68	19.63	19.67	21	3
5	64QAM	12	13	19.62	19.66	19.52		
5	64QAM	25	0	19.65	19.61	19.57		
5	256QAM	1	0	17.73	17.76	17.65	19	5
5	256QAM	1	12	17.67	17.68	17.59		
5	256QAM	1	24	17.51	17.64	17.47		
5	256QAM	12	0	17.60	17.74	17.51	19	5
5	256QAM	12	7	17.57	17.61	17.44		
5	256QAM	12	13	17.54	17.56	17.56		
5	256QAM	25	0	17.56	17.59	17.41		
Channel								
Frequency (MHz)				267.05	268.65	270.25		
3	QPSK	1	0	22.69	22.72	22.65	24	0
3	QPSK	1	8	22.51	22.63	22.51		
3	QPSK	1	14	22.57	22.64	22.59		
3	QPSK	8	0	21.71	21.69	21.62	23	1
3	QPSK	8	4	21.65	21.68	21.68		
3	QPSK	8	7	21.49	21.67	21.48		
3	QPSK	15	0	21.57	21.64	21.52	23	1
3	16QAM	1	0	21.58	21.62	21.46		
3	16QAM	1	8	21.55	21.48	21.54		
3	16QAM	1	14	21.51	21.60	21.55	22	2
3	16QAM	8	0	20.77	20.74	20.72		
3	16QAM	8	4	20.62	20.72	20.61		
3	16QAM	8	7	20.57	20.72	20.49	22	2
3	16QAM	15	0	20.65	20.71	20.60		
3	64QAM	1	0	20.63	20.66	20.46		
3	64QAM	1	8	20.63	20.55	20.52	22	2
3	64QAM	1	14	20.46	20.71	20.49		
3	64QAM	8	0	19.74	19.69	19.66		
3	64QAM	8	4	19.66	19.58	19.66	21	3
3	64QAM	8	7	19.52	19.67	19.43		
3	64QAM	15	0	19.54	19.65	19.57		
3	256QAM	1	0	17.74	17.67	17.70	19	5
3	256QAM	1	9	17.63	17.58	17.55		
3	256QAM	1	14	17.46	17.66	17.59		
3	256QAM	8	0	17.65	17.74	17.60	19	5
3	256QAM	8	4	17.61	17.68	17.46		
3	256QAM	8	7	17.54	17.61	17.57		
3	256QAM	15	0	17.48	17.63	17.44		
Channel								
Frequency (MHz)				269.77	269.65	270.33		
1.4	QPSK	1	0	22.62	22.73	22.66	24	0
1.4	QPSK	1	3	22.59	22.65	22.58		
1.4	QPSK	1	5	22.52	22.70	22.60		
1.4	QPSK	3	0	22.51	22.66	22.58	23	1
1.4	QPSK	3	1	22.45	22.55	22.57		
1.4	QPSK	3	3	22.47	22.64	22.49		
1.4	QPSK	6	0	21.55	21.69	21.53	23	1
1.4	16QAM	1	0	21.61	21.68	21.57		
1.4	16QAM	1	3	21.54	21.57	21.58		
1.4	16QAM	1	5	21.57	21.64	21.54	23	1
1.4	16QAM	3	0	21.45	21.63	21.45		
1.4	16QAM	3	1	21.50	21.67	21.55		
1.4	16QAM	3	3	21.44	21.46	21.52	22	2
1.4	16QAM	6	0	20.67	20.71	20.59		
1.4	64QAM	1	0	20.66	20.64	20.44		
1.4	64QAM	1	3	20.59	20.58	20.59	22	2
1.4	64QAM	1	5	20.49	20.63	20.49		
1.4	64QAM	3	0	20.61	20.68	20.48		
1.4	64QAM	3	1	20.58	20.57	20.41	21	3
1.4	64QAM	3	3	20.54	20.48	20.49		
1.4	64QAM	6	0	19.58	19.63	19.62		
1.4	256QAM	1	0	17.76	17.66	17.69	19	5
1.4	256QAM	1	3	17.67	17.65	17.57		
1.4	256QAM	1	5	17.58	17.62	17.57		
1.4	256QAM	3	0	17.59	17.68	17.54	19	5
1.4	256QAM	3	1	17.58	17.63	17.45		
1.4	256QAM	3	3	17.59	17.59	17.58		
1.4	256QAM	6	0	17.63	17.62	17.45		



GSM 1900 Ant 2 EC19	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	902	945		988	912	955	
Frequency (MHz)	1862.2	1880	1909.8	1862.2	1880	1909.8		
GPRS 4 Tx slots	16.60	16.62	16.58	17.90	13.60	13.62	13.58	14.90

Band	WCDMA II Ant 2 EC19			Tune-up Limit (dBm)	WCDMA IV Ant 2 EC19			Tune-up Limit (dBm)
	TX Channel	9262	9400		9538	9312	9413	
TX Channel	9402	9400	9406	1539	1539	1539	1539	
Frequency (MHz)	1862.4	1880	1909.6	1712.4	1732.6	1762.6		
3GPP Rel 99	RWC-12.2Kbps	13.50	13.55	13.48	14.00	13.30	13.33	14.50

Band 2 Ant 2 EC19								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				18700	18900	19100		
Frequency (MHz)				1860	1890	1920		
20	QPSK	1	0	11.80	11.85	11.79	13.1	0

Band 4 Ant 2 EC19								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				20050	20175	20300		
Frequency (MHz)				1720	1727.5	1735		
20	QPSK	1	0	9.25	9.25	9.25	11.3	0

Band 7 Ant 2 EC19								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				20400	21100	21550		
Frequency (MHz)				2515	2535	2560		
20	QPSK	1	0	13.52	13.25	13.25	15	0

Band 38 Ant 2 EC19								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				37850	38000	38150		
Frequency (MHz)				2505	2595	2610		
20	QPSK	1	0	15.42	15.45	15.43	17.3	0

Band 41 HPUE Ant 2 EC19										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40185	40520	41055	41490		
Frequency (MHz)				2505	2549.5	2593	2638.5	2680		
20	QPSK	1	0	17.25	17.27	17.29	17.52	17.50	16.9	0

Band 66 Ant 2 EC19								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	9.35	10.91	9.25	11.3	0

Band 41 Ant 2 EC19										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40185	40520	41055	41490		
Frequency (MHz)				2505	2549.5	2593	2638.5	2680		
20	QPSK	1	0	16.42	15.54	15.52	16.50	16.52	17.3	0



Band 42 Part 27Q Ant 4 EC19

Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				42160	42900	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	14.18	14.22	14.16		
20	QPSK	1	49	14.15	14.13	14.06	15.3	0
20	QPSK	1	99	14.09	14.18	14.05		
20	QPSK	50	0	14.12	14.20	14.10		
20	QPSK	50	24	14.09	14.10	14.14		
20	QPSK	50	50	14.13	14.16	14.03	15.3	0
20	QPSK	100	0	14.14	14.17	14.09		
20	16QAM	1	0	14.04	14.16	14.09		
20	16QAM	1	49	14.13	14.04	13.94	15.3	0
20	16QAM	1	99	14.03	14.07	14.06		
20	16QAM	50	0	14.09	14.13	14.03		
20	16QAM	50	24	13.95	14.01	14.02	15.3	0
20	16QAM	50	50	14.07	14.06	13.96		
20	16QAM	100	0	14.05	14.10	13.98		
20	64QAM	1	0	14.07	14.12	14.03		
20	64QAM	1	49	14.11	14.08	14.02	15.3	0
20	64QAM	1	99	13.99	14.12	14.04		
20	64QAM	50	0	14.05	14.15	14.07		
20	64QAM	50	24	14.03	14.07	14.00	15.3	0
20	64QAM	50	50	14.08	14.04	13.96		
20	64QAM	100	0	14.03	14.06	14.07		
20	256QAM	1	0	14.14	14.11	14.11		
20	256QAM	1	49	14.11	14.08	13.94	15.3	0
20	256QAM	1	99	14.06	14.10	14.00		
20	256QAM	50	0	14.01	14.15	14.03		
20	256QAM	50	24	14.04	13.98	14.00	15.3	0
20	256QAM	50	50	14.03	14.13	13.94		
20	256QAM	100	0	14.02	14.05	13.97		
Channel				42165	42900	43015		
Frequency (MHz)				3475.5	3500	3542.5		
15	QPSK	1	0	14.03	14.16	14.04		
15	QPSK	1	37	14.06	14.02	13.94	15.3	0
15	QPSK	1	74	14.02	14.11	13.98		
15	QPSK	36	0	14.01	14.07	14.08		
15	QPSK	36	20	13.99	14.05	14.01	15.3	0
15	QPSK	36	39	14.09	14.02	13.90		
15	QPSK	75	0	14.09	14.06	14.04		
15	16QAM	1	0	13.96	14.07	14.01		
15	16QAM	1	37	14.02	13.92	13.85	15.3	0
15	16QAM	1	74	13.93	14.02	13.97		
15	16QAM	36	0	14.00	14.01	13.96		
15	16QAM	36	20	13.98	13.96	13.92	15.3	0
15	16QAM	36	39	13.97	14.03	13.87		
15	16QAM	75	0	13.95	13.96	13.92		
15	64QAM	1	0	13.99	14.02	13.95		
15	64QAM	1	37	14.04	13.96	13.88	15.3	0
15	64QAM	1	74	13.86	14.02	14.00		
15	64QAM	36	0	14.01	14.10	14.00		
15	64QAM	36	20	13.92	13.97	13.97	15.3	0
15	64QAM	36	39	14.06	13.92	13.88		
15	64QAM	75	0	14.06	14.04	14.03		
15	256QAM	1	0	14.09	14.06	13.97		
15	256QAM	1	37	13.98	13.97	13.92	15.3	0
15	256QAM	1	74	13.96	13.97	13.97		
15	256QAM	36	0	13.88	14.07	13.90		
15	256QAM	36	20	13.93	13.94	13.96	15.3	0
15	256QAM	36	39	13.91	14.00	13.88		
15	256QAM	75	0	13.84	13.97	13.94		
Channel				42170	42900	43020		
Frequency (MHz)				3485	3500	3545		
10	QPSK	1	0	14.13	14.18	14.12		
10	QPSK	1	25	14.06	14.05	14.02	15.3	0
10	QPSK	1	49	14.04	14.17	13.98		
10	QPSK	25	0	14.01	14.18	14.01		
10	QPSK	25	12	14.01	14.01	14.07	15.3	0
10	QPSK	25	25	14.03	14.03	13.91		
10	QPSK	50	0	14.02	14.04	13.99		
10	16QAM	1	0	13.99	14.03	14.04		
10	16QAM	1	25	14.04	13.94	13.83	15.3	0
10	16QAM	1	49	14.00	13.96	14.03		
10	16QAM	25	0	13.97	14.10	13.93		
10	16QAM	25	12	13.83	13.93	13.96	15.3	0
10	16QAM	25	25	14.04	13.98	13.92		
10	16QAM	50	0	13.95	14.05	13.94		
10	64QAM	1	0	13.96	14.06	13.92		
10	64QAM	1	25	14.04	14.01	13.94	15.3	0
10	64QAM	1	49	13.92	14.01	14.02		
10	64QAM	25	0	13.99	14.12	14.04		
10	64QAM	25	12	13.96	13.99	13.92	15.3	0
10	64QAM	25	25	13.97	13.95	13.89		
10	256QAM	1	0	14.03	13.96	14.04		
10	256QAM	1	25	14.09	14.04	13.84	15.3	0
10	256QAM	1	49	13.93	14.03	13.94		
10	256QAM	25	0	13.90	14.01	13.96		
10	256QAM	25	12	13.81	13.83	13.92	15.3	0
10	256QAM	25	25	13.94	14.02	13.91		
10	256QAM	50	0	13.97	13.90	13.90		
Channel				42175	42900	43065		
Frequency (MHz)				3492.5	3500	3547.5		
5	QPSK	1	0	14.12	14.20	14.09		
5	QPSK	1	12	14.06	14.05	14.02	15.3	0
5	QPSK	1	24	14.01	14.14	13.99		
5	QPSK	12	0	14.04	14.16	13.97		
5	QPSK	12	7	14.02	13.97	14.02	15.3	0
5	QPSK	12	13	14.00	14.04	13.91		
5	QPSK	25	0	14.11	14.07	14.03		
5	16QAM	1	0	13.90	14.10	13.98	15.3	0
5	16QAM	1	12	14.03	13.92	13.83		
5	16QAM	1	24	13.92	13.96	14.01		
5	16QAM	12	0	14.00	14.08	13.91		
5	16QAM	12	7	13.83	13.97	13.94	15.3	0
5	16QAM	12	13	14.00	13.96	13.88		
5	16QAM	25	0	13.97	14.02	13.85		
5	64QAM	1	0	13.94	14.05	14.01		
5	64QAM	1	12	14.07	14.02	13.92	15.3	0
5	64QAM	1	24	13.89	14.10	13.96		
5	64QAM	12	0	13.97	14.09	13.97		
5	64QAM	12	7	13.84	14.00	13.97	15.3	0
5	64QAM	12	13	14.03	14.00	13.97		
5	64QAM	25	0	14.03	14.01	13.96		
5	256QAM	1	0	14.03	14.08	13.98	15.3	0
5	256QAM	1	12	13.98	13.97	13.86		
5	256QAM	1	24	13.94	13.96	13.97		
5	256QAM	12	0	13.98	14.09	13.96		
5	256QAM	12	7	14.01	13.85	13.97	15.3	0
5	256QAM	12	13	13.97	14.01	13.88		
5	256QAM	25	0	13.91	13.96	13.85		



Band 42 Part 27Q Ant 6 EC19

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mide Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				42160	42900	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	15.85	15.88	15.81		
20	QPSK	1	49	15.81	15.77	15.73	16.8	0
20	QPSK	1	99	15.73	15.78	15.68		
20	QPSK	50	0	15.73	15.85	15.77		
20	QPSK	50	24	15.71	15.80	15.76		
20	QPSK	50	50	15.81	15.74	15.70	16.8	0
20	QPSK	100	0	15.77	15.81	15.72		
20	16QAM	1	0	15.83	15.78	15.77		
20	16QAM	1	49	15.70	15.73	15.64	16.8	0
20	16QAM	1	99	15.81	15.71	15.64		
20	16QAM	50	0	15.84	15.76	15.70		
20	16QAM	50	24	15.85	15.87	15.74		
20	16QAM	50	50	15.88	15.80	15.66	16.8	0
20	16QAM	100	0	15.86	15.73	15.63		
20	64QAM	1	0	15.83	15.75	15.77		
20	64QAM	1	49	15.70	15.83	15.59	16.8	0
20	64QAM	1	99	15.83	15.74	15.56		
20	64QAM	50	0	15.89	15.75	15.68		
20	64QAM	50	24	15.68	15.67	15.70		
20	64QAM	50	50	15.73	15.71	15.62	16.8	0
20	64QAM	100	0	15.60	15.72	15.58		
20	256QAM	1	0	15.75	15.79	15.76		
20	256QAM	1	49	15.69	15.83	15.64	16.8	0
20	256QAM	1	99	15.84	15.70	15.59		
20	256QAM	50	0	15.60	15.77	15.63		
20	256QAM	50	24	15.60	15.71	15.69	16.8	0
20	256QAM	50	50	15.71	15.85	15.60		
20	256QAM	100	0	15.63	15.73	15.67		
Channel				42165	42900	43015		
Frequency (MHz)				3475.5	3500	3542.5		
15	QPSK	1	0	15.73	15.82	15.72		
15	QPSK	1	37	15.75	15.74	15.68	16.8	0
15	QPSK	1	74	15.88	15.71	15.82		
15	QPSK	35	0	15.81	15.79	15.64		
15	QPSK	35	20	15.85	15.73	15.64	16.8	0
15	QPSK	35	39	15.79	15.71	15.66		
15	QPSK	75	0	15.72	15.68	15.59		
15	16QAM	1	0	15.74	15.65	15.74		
15	16QAM	1	37	15.81	15.69	15.60	16.8	0
15	16QAM	1	74	15.58	15.64	15.51		
15	16QAM	35	0	15.64	15.68	15.57		
15	16QAM	35	20	15.62	15.55	15.68	16.8	0
15	16QAM	35	39	15.84	15.84	15.60		
15	16QAM	75	0	15.83	15.81	15.54		
15	64QAM	1	0	15.70	15.66	15.67		
15	64QAM	1	37	15.84	15.56	15.53	16.8	0
15	64QAM	1	74	15.59	15.67	15.43		
15	64QAM	35	0	15.59	15.69	15.59		
15	64QAM	35	20	15.65	15.64	15.68	16.8	0
15	64QAM	35	39	15.88	15.64	15.60		
15	64QAM	75	0	15.81	15.66	15.45		
15	256QAM	1	0	15.67	15.88	15.66		
15	256QAM	1	37	15.67	15.52	15.59	16.8	0
15	256QAM	1	74	15.84	15.81	15.46		
15	256QAM	35	0	15.46	15.71	15.57		
15	256QAM	35	20	15.68	15.63	15.66	16.8	0
15	256QAM	35	39	15.82	15.52	15.56		
15	256QAM	75	0	15.82	15.68	15.55		
Channel				42160	42900	43000		
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	15.72	15.80	15.73		
10	QPSK	1	25	15.73	15.75	15.68	16.8	0
10	QPSK	1	49	15.85	15.69	15.58		
10	QPSK	25	0	15.85	15.73	15.66		
10	QPSK	25	12	15.88	15.76	15.85	16.8	0
10	QPSK	25	25	15.72	15.67	15.61		
10	QPSK	50	0	15.63	15.78	15.63		
10	16QAM	1	0	15.74	15.73	15.70		
10	16QAM	1	25	15.85	15.69	15.62	16.8	0
10	16QAM	1	49	15.67	15.61	15.59		
10	16QAM	25	0	15.56	15.63	15.67		
10	16QAM	25	12	15.63	15.58	15.85	16.8	0
10	16QAM	25	25	15.68	15.59	15.57		
10	16QAM	50	0	15.64	15.60	15.57		
10	64QAM	1	0	15.73	15.88	15.72		
10	64QAM	1	25	15.67	15.54	15.55	16.8	0
10	64QAM	1	49	15.83	15.71	15.62		
10	64QAM	25	0	15.58	15.63	15.66		
10	64QAM	25	12	15.81	15.80	15.66	16.8	0
10	64QAM	25	25	15.67	15.62	15.51		
10	256QAM	1	0	15.62	15.82	15.54		
10	256QAM	1	25	15.87	15.76	15.74	16.8	0
10	256QAM	1	49	15.81	15.60	15.59		
10	256QAM	25	0	15.66	15.71	15.51		
10	256QAM	25	12	15.88	15.86	15.64	16.8	0
10	256QAM	25	25	15.59	15.81	15.46		
10	256QAM	50	0	15.50	15.60	15.81		
Channel				42115	42900	43005		
Frequency (MHz)				3492.5	3500	3547.5		
5	QPSK	1	0	15.73	15.82	15.70		
5	QPSK	1	12	15.79	15.68	15.67	16.8	0
5	QPSK	1	24	15.84	15.73	15.84		
5	QPSK	12	0	15.88	15.73	15.66		
5	QPSK	12	7	15.81	15.76	15.71	16.8	0
5	QPSK	12	13	15.73	15.71	15.67		
5	QPSK	25	0	15.72	15.76	15.58		
5	16QAM	1	0	15.77	15.66	15.73	16.8	0
5	16QAM	1	12	15.69	15.59	15.50		
5	16QAM	1	24	15.54	15.63	15.54		
5	16QAM	12	0	15.58	15.64	15.63	16.8	0
5	16QAM	12	7	15.66	15.60	15.68		
5	16QAM	12	13	15.81	15.63	15.63		
5	16QAM	25	0	15.64	15.68	15.58		
5	64QAM	1	0	15.73	15.67	15.73		
5	64QAM	1	12	15.63	15.68	15.54	16.8	0
5	64QAM	1	24	15.53	15.81	15.54		
5	64QAM	12	0	15.63	15.62	15.63		
5	64QAM	12	7	15.64	15.53	15.66	16.8	0
5	64QAM	12	13	15.85	15.81	15.50		
5	64QAM	25	0	15.56	15.66	15.47		
5	256QAM	1	0	15.72	15.75	15.69	16.8	0
5	256QAM	1	12	15.64	15.57	15.57		
5	256QAM	1	24	15.83	15.80	15.52		
5	256QAM	12	0	15.48	15.67	15.55	16.8	0
5	256QAM	12	7	15.48	15.68	15.56		
5	256QAM	12	13	15.66	15.63	15.49		
5	256QAM	25	0	15.82	15.85	15.57		



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Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				42160	42600	42992				
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	13.40	13.46	13.42	14.5	0		
20	QPSK	1	49	13.30	13.34	13.30				
20	QPSK	1	98	13.07	13.33	13.38				
20	QPSK	50	0	13.31	13.43	13.38				
20	QPSK	50	24	13.27	13.42	13.35				
20	QPSK	50	50	13.37	13.38	13.39				
20	QPSK	100	0	13.33	13.38	13.30				
20	16QAM	1	0	13.27	13.32	13.37				
20	16QAM	1	49	13.17	13.28	13.18				
20	16QAM	1	98	13.20	13.25	13.31				
20	16QAM	50	0	13.21	13.30	13.27	14.5	0		
20	16QAM	50	24	13.14	13.31	13.28				
20	16QAM	50	50	13.27	13.35	13.24				
20	16QAM	100	0	13.24	13.27	13.21				
20	64QAM	1	0	13.32	13.36	13.36				
20	64QAM	1	49	13.24	13.22	13.19				
20	64QAM	1	98	13.21	13.26	13.34				
20	64QAM	50	0	13.19	13.39	13.26				
20	64QAM	50	24	13.24	13.37	13.24				
20	64QAM	50	50	13.24	13.31	13.26				
20	256QAM	100	0	13.03	13.35	13.26	14.5	0		
20	256QAM	1	0	13.34	13.35	13.37				
20	256QAM	1	49	13.18	13.25	13.21				
20	256QAM	1	98	13.19	13.30	13.26				
20	256QAM	50	0	13.24	13.35	13.31				
20	256QAM	50	24	13.21	13.29	13.26				
20	256QAM	50	50	13.29	13.26	13.27				
20	256QAM	100	0	13.22	13.32	13.26				
Channel				42165	42600	43015				
Frequency (MHz)				3475.5	3500	3542.5				
15	QPSK	1	0	13.21	13.39	13.29	14.5	0		
15	QPSK	1	37	13.17	13.27	13.17				
15	QPSK	1	74	13.21	13.24	13.31				
15	QPSK	36	0	13.26	13.33	13.25				
15	QPSK	36	20	13.13	13.38	13.28				
15	QPSK	36	39	13.29	13.28	13.37				
15	QPSK	75	0	13.20	13.30	13.26				
15	16QAM	1	0	13.21	13.27	13.26				
15	16QAM	1	37	13.09	13.20	13.14				
15	16QAM	1	74	13.07	13.17	13.17				
15	16QAM	36	0	13.08	13.23	13.17	14.5	0		
15	16QAM	36	20	13.02	13.22	13.16				
15	16QAM	36	39	13.16	13.28	13.15				
15	16QAM	75	0	13.17	13.13	13.08				
15	64QAM	1	0	13.28	13.25	13.26				
15	64QAM	1	37	13.13	13.13	13.07				
15	64QAM	1	74	13.11	13.21	13.22				
15	64QAM	36	0	13.13	13.34	13.21				
15	64QAM	36	20	13.18	13.28	13.20				
15	64QAM	36	39	13.11	13.28	13.19				
15	64QAM	75	0	13.13	13.31	13.18	14.5	0		
15	256QAM	1	0	13.28	13.21	13.30				
15	256QAM	1	37	13.10	13.23	13.14				
15	256QAM	1	74	13.09	13.20	13.16				
15	256QAM	36	0	13.10	13.27	13.29				
15	256QAM	36	20	13.09	13.25	13.13				
15	256QAM	36	39	13.25	13.14	13.16				
15	256QAM	75	0	13.14	13.23	13.21				
Channel				42160	42600	43040				
Frequency (MHz)				3465	3500	3545				
10	QPSK	1	0	13.35	13.35	13.37	14.5	0		
10	QPSK	1	25	13.19	13.32	13.18				
10	QPSK	1	49	13.17	13.25	13.32				
10	QPSK	25	0	13.36	13.36	13.31				
10	QPSK	25	12	13.21	13.38	13.29				
10	QPSK	25	25	13.30	13.28	13.28				
10	QPSK	50	0	13.22	13.34	13.23				
10	16QAM	1	0	13.17	13.28	13.27				
10	16QAM	1	25	13.14	13.23	13.09				
10	16QAM	1	49	13.14	13.07	13.26				
10	16QAM	25	0	13.13	13.16	13.13	14.5	0		
10	16QAM	25	12	13.01	13.23	13.17				
10	16QAM	25	25	13.20	13.25	13.25				
10	16QAM	50	0	13.15	13.24	13.14				
10	64QAM	1	0	13.27	13.23	13.31				
10	64QAM	1	25	13.18	13.16	13.14				
10	64QAM	1	49	13.16	13.16	13.20				
10	64QAM	25	0	13.14	13.35	13.17				
10	64QAM	25	12	13.13	13.25	13.12				
10	64QAM	25	25	13.17	13.27	13.14				
10	256QAM	50	0	13.14	13.22	13.30	14.5	0		
10	256QAM	1	0	13.20	13.21	13.33				
10	256QAM	1	25	13.11	13.22	13.12				
10	256QAM	1	49	13.10	13.28	13.14				
10	256QAM	25	0	13.14	13.28	13.17				
10	256QAM	25	12	13.12	13.17	13.12				
10	256QAM	25	25	13.21	13.13	13.14				
10	256QAM	50	0	13.13	13.18	13.22				
Channel				42115	42600	43065				
Frequency (MHz)				3492.5	3500	3547.5				
5	QPSK	1	0	13.38	13.43	13.37	14.5	0		
5	QPSK	1	12	13.25	13.25	13.23				
5	QPSK	1	24	13.17	13.26	13.35				
5	QPSK	12	0	13.24	13.33	13.36				
5	QPSK	12	7	13.19	13.32	13.29				
5	QPSK	12	13	13.31	13.29	13.37				
5	QPSK	25	0	13.24	13.34	13.27				
5	16QAM	1	0	13.21	13.26	13.24				
5	16QAM	1	12	13.05	13.22	13.05				
5	16QAM	1	24	13.15	13.09	13.23				
5	16QAM	12	0	13.17	13.18	13.20	14.5	0		
5	16QAM	12	7	13.01	13.21	13.19				
5	16QAM	12	13	13.16	13.20	13.16				
5	16QAM	25	0	13.15	13.21	13.15				
5	64QAM	1	0	13.22	13.30	13.27				
5	64QAM	1	12	13.17	13.15	13.10				
5	64QAM	1	24	13.11	13.24	13.27				
5	64QAM	12	0	13.07	13.27	13.22				
5	64QAM	12	7	13.19	13.35	13.12				
5	64QAM	12	13	13.17	13.24	13.15				
5	64QAM	25	0	13.17	13.29	13.16	14.5	0		
5	256QAM	1	0	13.30	13.23	13.30				
5	256QAM	1	12	13.09	13.25	13.09				
5	256QAM	1	24	13.06	13.23	13.15				
5	256QAM	12	0	13.20	13.26	13.25				
5	256QAM	12	7	13.20	13.18	13.13				
5	256QAM	12	13	13.22	13.13	13.19				
5	256QAM	25	0	13.18	13.24	13.23				



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Channel	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)										
20	QPSK	1	0	20.51	20.56	20.48	21.6	0		
20	QPSK	1	49	20.42	20.44	20.38				
20	QPSK	1	99	20.41	20.43	20.35				
20	QPSK	50	0	20.43	20.52	20.35				
20	QPSK	50	24	20.42	20.45	20.39				
20	QPSK	50	50	20.43	20.45	20.37				
20	QPSK	100	0	20.42	20.50	20.37	21.6	0		
20	16QAM	1	0	20.38	20.48	20.39				
20	16QAM	1	49	20.35	20.33	20.30				
20	16QAM	1	99	20.31	20.33	20.32				
20	16QAM	50	0	20.39	20.44	20.28				
20	16QAM	50	24	20.29	20.34	20.28				
20	16QAM	50	50	20.33	20.32	20.27	21.6	0		
20	16QAM	100	0	20.34	20.42	20.27				
20	64QAM	1	0	20.39	20.44	20.44				
20	64QAM	1	49	20.37	20.40	20.36				
20	64QAM	1	99	20.27	20.37	20.28				
20	64QAM	50	0	19.91	19.96	19.82				
20	64QAM	50	24	19.78	19.87	19.72	21	0.6		
20	64QAM	50	50	19.83	19.79	19.81				
20	64QAM	100	0	19.80	19.90	19.77				
20	256QAM	1	0	17.86	17.86	17.93				
20	256QAM	1	49	17.86	17.83	17.74				
20	256QAM	1	99	17.87	17.78	17.78				
20	256QAM	50	0	17.89	17.88	17.80	19	2.6		
20	256QAM	50	24	17.86	17.81	17.76				
20	256QAM	50	50	17.87	17.84	17.75				
20	256QAM	100	0	17.85	17.86	17.80				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.39	20.51	20.41	21.6	0		
15	QPSK	1	37	20.40	20.40	20.28				
15	QPSK	1	74	20.28	20.33	20.29				
15	QPSK	36	0	20.36	20.40	20.26				
15	QPSK	36	20	20.28	20.38	20.33				
15	QPSK	36	39	20.33	20.31	20.28				
15	QPSK	75	0	20.37	20.46	20.33	21.6	0		
15	16QAM	1	0	20.26	20.38	20.32				
15	16QAM	1	37	20.27	20.28	20.21				
15	16QAM	1	74	20.25	20.19	20.18				
15	16QAM	36	0	20.36	20.33	20.23				
15	16QAM	36	20	20.19	20.22	20.24				
15	16QAM	36	39	20.25	20.29	20.28	21.6	0		
15	16QAM	75	0	20.30	20.32	20.15				
15	16QAM	1	0	20.31	20.32	20.30				
15	16QAM	1	37	20.24	20.31	20.31				
15	16QAM	1	74	20.15	20.31	20.22				
15	16QAM	36	0	19.87	19.91	19.70				
15	16QAM	36	20	19.72	19.82	19.66	21	0.6		
15	16QAM	36	39	19.73	19.69	19.78				
15	16QAM	75	0	19.68	19.81	19.64				
15	256QAM	1	0	17.76	17.86	17.79				
15	256QAM	1	37	17.75	17.75	17.70				
15	256QAM	1	74	17.76	17.74	17.65				
15	256QAM	36	0	17.82	17.79	17.71	19	2.6		
15	256QAM	36	20	17.77	17.72	17.64				
15	256QAM	36	39	17.78	17.81	17.66				
15	256QAM	75	0	17.83	17.73	17.77				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.47	20.45	20.37	21.6	0		
10	QPSK	1	25	20.38	20.35	20.31				
10	QPSK	1	49	20.38	20.33	20.31				
10	QPSK	25	0	20.40	20.49	20.31				
10	QPSK	25	12	20.37	20.43	20.35				
10	QPSK	25	25	20.32	20.38	20.26				
10	QPSK	50	0	20.31	20.45	20.27	21.6	0		
10	16QAM	1	0	20.36	20.39	20.33				
10	16QAM	1	25	20.32	20.21	20.22				
10	16QAM	1	49	20.17	20.22	20.19				
10	16QAM	25	0	20.32	20.30	20.18				
10	16QAM	25	12	20.22	20.26	20.19				
10	16QAM	25	25	20.23	20.30	20.24	21.6	0		
10	16QAM	50	0	20.27	20.29	20.18				
10	64QAM	1	0	20.32	20.39	20.34				
10	64QAM	1	25	20.24	20.32	20.26				
10	64QAM	1	49	20.21	20.34	20.15				
10	64QAM	25	0	19.79	19.94	19.71				
10	64QAM	25	12	19.75	19.83	19.61	21	0.6		
10	64QAM	25	25	19.71	19.69	19.73				
10	64QAM	50	0	19.68	19.85	19.66				
10	256QAM	1	0	17.84	17.93	17.89				
10	256QAM	1	25	17.84	17.79	17.65				
10	256QAM	1	49	17.80	17.87	17.75				
10	256QAM	25	0	17.82	17.83	17.73	19	2.6		
10	256QAM	25	12	17.73	17.76	17.64				
10	256QAM	25	25	17.77	17.74	17.70				
10	256QAM	50	0	17.74	17.83	17.68				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.44	20.50	20.36	21.6	0		
5	QPSK	1	12	20.32	20.41	20.33				
5	QPSK	1	24	20.30	20.40	20.21				
5	QPSK	12	0	20.32	20.46	20.32				
5	QPSK	12	7	20.32	20.31	20.33				
5	QPSK	12	13	20.31	20.31	20.30				
5	QPSK	25	0	20.31	20.42	20.27	21.6	0		
5	16QAM	1	0	20.27	20.39	20.27				
5	16QAM	1	12	20.24	20.24	20.18				
5	16QAM	1	24	20.18	20.26	20.24				
5	16QAM	12	0	20.31	20.37	20.24				
5	16QAM	12	7	20.16	20.21	20.25				
5	16QAM	12	13	20.25	20.29	20.19	21.6	0		
5	16QAM	25	0	20.28	20.33	20.17				
5	64QAM	1	0	20.37	20.30	20.36				
5	64QAM	1	12	20.32	20.37	20.26				
5	64QAM	1	24	20.21	20.33	20.14				
5	64QAM	12	0	19.79	19.88	19.70				
5	64QAM	12	7	19.73	19.78	19.69	21	0.6		
5	64QAM	12	13	19.71	19.68	19.73				
5	64QAM	25	0	19.75	19.77	19.72				
5	256QAM	1	0	17.84	17.87	17.88				
5	256QAM	1	12	17.77	17.76	17.61				
5	256QAM	1	24	17.79	17.88	17.74				
5	256QAM	12	0	17.76	17.78	17.70	19	2.6		
5	256QAM	12	7	17.78	17.74	17.69				
5	256QAM	12	13	17.82	17.77	17.68				
5	256QAM	25	0	17.75	17.80	17.74				



Reduced Power Mode for ECI 10

GSM850 Ant 0 ECI10		Burst Average Power (dBm)			Frame Average Power (dBm)			Tune-up	Ch.
TX Channel	158	168	201	158	168	201	Limit	Delta	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	28.40	> 0.5	
GPRS 4 Tx slots	20.81	26.89	20.85	23.81	23.89	23.85	25.40	0.08	

GSM1900 Ant 0 ECI10		Burst Average Power (dBm)			Frame Average Power (dBm)			Tune-up	Ch.
TX Channel	912	891	913	912	891	913	Limit	Delta	
Frequency (MHz)	1862.5	1880	1909.5	1862.5	1880	1909.5	25.00	> 0.5	
GPRS 4 Tx slots	23.82	23.87	23.85	20.62	20.87	20.85	22.00	0.05	

Band	WCDMA I Ant 0 ECI10			WCDMA IV Ant 0 ECI10			WCDMA V Ant 0 ECI10			WCDMA I	WCDMA IV	WCDMA V
	TX Channel	9362	9460	9538	9362	9460	9538	9362	9462			
Frequency (MHz)	1824.4	1880	1937.5	1824.4	1880	1937.5	1824.4	1880	1937.5	1824.4	1880	1937.5
3GPP Rel 99	RW-12.3kpps	16.65	16.68	16.60	18.10	17.20	17.24	17.19	18.40	22.40	22.44	22.38

Band 2 Ant 0 ECI10										
BW (MHz)	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)	QPSK	1	0	18.06	18.10	19.00	19.6	0		

Band 4 Ant 0 ECI10										
BW (MHz)	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)	QPSK	1	0	16.19	16.23	17.24	17.3	0		

Band 7 Ant 0 ECI10										
BW (MHz)	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)	QPSK	1	0	19.16	19.22	19.19	20.6	0		

Band 38 Ant 0 ECI10										
BW (MHz)	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)	QPSK	1	0	23.10	23.13	22.5	22.5	0		

Band 41 HPUE Ant 0 ECI10										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)	QPSK	1	0	23.44	23.43	23.43	23.41	23.43	24.4	0

Band 66 Ant 0 ECI10										
BW (MHz)	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)	QPSK	1	0	19.23	19.23	19.22	17.3	0		

Band 41 Ant 0 ECI10										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)	QPSK	1	0	22.20	22.15	22.11	22.15	22.15	22.5	0



Band 5 Ant 0 EC110

BW (MHz)	Modulation	RB Size	RB Offset	Power Ref Ch./Freq	Power Max Ch./Freq	Power Min Ch./Freq	Tune-up (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	19.83	19.83	19.84	21.1	0
10	QPSK	1	25	19.85	19.83	19.72	21.1	0
10	QPSK	1	49	19.80	19.71	19.79	21.1	0
10	QPSK	25	0	19.71	19.89	19.65	21.1	0
10	QPSK	25	12	19.85	19.83	19.82	21.1	0
10	QPSK	25	25	19.78	19.85	19.72	21.1	0
10	QPSK	50	0	19.73	19.85	19.79	21.1	0
10	16QAM	1	0	19.69	19.81	19.81	21.1	0
10	16QAM	1	25	19.82	19.74	19.82	21.1	0
10	16QAM	1	49	19.75	19.85	19.71	21.1	0
10	16QAM	25	0	19.80	19.78	19.82	21.1	0
10	16QAM	25	12	19.82	19.81	19.79	21.1	0
10	16QAM	25	25	19.81	19.68	19.70	21.1	0
10	16QAM	50	0	19.81	19.81	19.79	21.1	0
10	64QAM	1	0	19.86	19.74	19.75	21.1	0
10	64QAM	1	25	19.69	19.73	19.67	21.1	0
10	64QAM	1	49	19.64	19.67	19.79	21.1	0
10	64QAM	25	0	19.67	19.61	19.61	21.1	0
10	64QAM	25	12	19.69	19.66	19.66	21.1	0.1
10	64QAM	25	25	19.62	19.71	19.61	21.1	0.1
10	64QAM	50	0	19.55	19.65	19.41	21.1	0.1
10	256QAM	1	0	17.71	17.67	17.71	19	2.1
10	256QAM	1	25	17.67	17.63	17.64	19	2.1
10	256QAM	1	49	17.62	17.61	17.62	19	2.1
10	256QAM	25	0	17.52	17.74	17.56	19	2.1
10	256QAM	25	12	17.74	17.73	17.66	19	2.1
10	256QAM	25	25	17.61	17.77	17.68	19	2.1
10	256QAM	50	0	17.40	17.62	17.64	19	2.1
Channel								
Frequency (MHz)								
5	QPSK	1	0	19.77	19.91	19.87	21.1	0
5	QPSK	1	24	19.76	19.91	19.71	21.1	0
5	QPSK	12	0	19.82	19.78	19.80	21.1	0
5	QPSK	12	7	19.81	19.69	19.72	21.1	0
5	QPSK	12	13	19.83	19.81	19.83	21.1	0
5	QPSK	25	0	19.69	19.74	19.75	21.1	0
5	16QAM	1	0	19.57	19.75	19.71	21.1	0
5	16QAM	1	12	19.67	19.64	19.62	21.1	0
5	16QAM	12	0	19.53	19.73	19.62	21.1	0
5	16QAM	12	7	19.69	19.60	19.71	21.1	0
5	16QAM	12	13	19.59	19.63	19.63	21.1	0
5	16QAM	25	0	19.53	19.50	19.66	21.1	0
5	64QAM	1	0	19.62	19.63	19.62	21.1	0
5	64QAM	1	12	19.64	19.69	19.61	21.1	0
5	64QAM	1	24	19.59	19.56	19.61	21.1	0
5	64QAM	12	0	19.49	19.51	19.58	21.1	0.1
5	64QAM	12	7	19.57	19.48	19.48	21.1	0.1
5	64QAM	12	13	19.49	19.56	19.51	21.1	0.1
5	256QAM	1	0	17.61	17.67	17.63	19	2.1
5	256QAM	1	12	17.63	17.78	17.61	19	2.1
5	256QAM	1	24	17.55	17.70	17.58	19	2.1
5	256QAM	12	0	17.62	17.61	17.61	19	2.1
5	256QAM	12	7	17.62	17.62	17.58	19	2.1
5	256QAM	12	13	17.50	17.70	17.57	19	2.1
5	256QAM	25	0	17.39	17.48	17.52	19	2.1
Channel								
Frequency (MHz)								
3	QPSK	1	0	19.81	19.92	19.87	21.1	0
3	QPSK	1	8	19.79	19.73	19.68	21.1	0
3	QPSK	1	14	19.84	19.84	19.87	21.1	0
3	QPSK	1	8	19.58	19.78	19.52	21.1	0
3	QPSK	8	4	19.78	19.71	19.71	21.1	0
3	QPSK	8	7	19.74	19.81	19.69	21.1	0
3	QPSK	16	0	19.69	19.83	19.71	21.1	0
3	16QAM	1	0	19.63	19.79	19.78	21.1	0
3	16QAM	1	8	19.66	19.68	19.60	21.1	0
3	16QAM	1	14	19.66	19.61	19.60	21.1	0
3	16QAM	8	0	19.62	19.61	19.59	21.1	0
3	16QAM	8	4	19.75	19.65	19.63	21.1	0
3	16QAM	8	7	19.50	19.58	19.64	21.1	0
3	16QAM	15	0	19.50	19.57	19.65	21.1	0
3	64QAM	1	0	19.60	19.79	19.69	21.1	0
3	64QAM	1	8	19.64	19.64	19.62	21.1	0
3	64QAM	1	14	19.54	19.63	19.72	21.1	0
3	64QAM	8	0	19.53	19.49	19.53	21.1	0.1
3	64QAM	8	4	19.66	19.44	19.45	21.1	0.1
3	64QAM	8	7	19.47	19.52	19.55	21.1	0.1
3	64QAM	15	0	19.48	19.57	19.59	21.1	0.1
3	256QAM	1	0	17.63	17.66	17.67	19	2.1
3	256QAM	1	8	17.60	17.71	17.57	19	2.1
3	256QAM	1	14	17.59	17.61	17.64	19	2.1
3	256QAM	8	0	17.49	17.72	17.43	19	2.1
3	256QAM	8	4	17.68	17.61	17.62	19	2.1
3	256QAM	8	7	17.57	17.74	17.66	19	2.1
3	256QAM	15	0	17.37	17.67	17.56	19	2.1
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	19.77	19.93	19.83	21.1	0
1.4	QPSK	1	3	19.81	19.75	19.66	21.1	0
1.4	QPSK	1	5	19.67	19.59	19.67	21.1	0
1.4	QPSK	3	0	19.81	19.86	19.85	21.1	0
1.4	QPSK	3	1	19.86	19.77	19.63	21.1	0
1.4	QPSK	3	3	19.69	19.82	19.65	21.1	0
1.4	QPSK	6	0	19.71	19.75	19.75	21.1	0
1.4	16QAM	1	0	19.61	19.68	19.76	21.1	0
1.4	16QAM	1	3	19.80	19.63	19.65	21.1	0
1.4	16QAM	1	5	19.64	19.59	19.64	21.1	0
1.4	16QAM	3	0	19.54	19.71	19.59	21.1	0
1.4	16QAM	3	1	19.73	19.80	19.72	21.1	0
1.4	16QAM	3	3	19.50	19.54	19.66	21.1	0
1.4	16QAM	6	0	19.53	19.54	19.60	21.1	0
1.4	64QAM	1	0	19.61	19.61	19.66	21.1	0
1.4	64QAM	1	3	19.56	19.65	19.54	21.1	0
1.4	64QAM	1	5	19.58	19.61	19.68	21.1	0
1.4	64QAM	3	0	19.49	19.51	19.47	21.1	0
1.4	64QAM	3	1	19.63	19.48	19.44	21.1	0
1.4	64QAM	3	3	19.55	19.50	19.53	21.1	0
1.4	64QAM	6	0	19.43	19.60	19.35	21	0.1
1.4	256QAM	1	0	17.60	17.55	17.60	19	2.1
1.4	256QAM	1	3	17.59	17.75	17.58	19	2.1
1.4	256QAM	1	5	17.50	17.67	17.70	19	2.1
1.4	256QAM	3	0	17.50	17.71	17.50	19	2.1
1.4	256QAM	3	1	17.68	17.64	17.59	19	2.1
1.4	256QAM	3	3	17.50	17.73	17.62	19	2.1
1.4	256QAM	6	0	17.36	17.60	17.61	19	2.1

Band 12 Ant 0 EC110

BW (MHz)	Modulation	RB Size	RB Offset	Power Ref Ch./Freq	Power Max Ch./Freq	Power Min Ch./Freq	Tune-up (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	25	19.96	19.99	19.87	21.1	0
10	QPSK	1	49	19.95	19.95	19.95	21.1	0
10	QPSK	25	0	19.87	20.01	19.85	21.1	0
10	QPSK	25	12	19.98	19.99	19.82	21.1	0
10	QPSK	25	25	19.93	19.98	19.91	21.1	0
10	QPSK	50	0	19.88	19.96	19.94	21.1	0
10	16QAM	1	0	19.91	19.94	19.95	21.1	0
10	16QAM	1	25	19.94	19.90	19.82	21.1	0
10	16QAM	1	49	19.95	19.87	19.89	21.1	0
10	16QAM	25	0	19.73	19.91	19.76	21.1	0
10	16QAM	25	12	19.98	19.86	19.83	21.1	0
10	16QAM	25	25	19.80	19.87	19.83	21.1	0
10	16QAM	50	0	19.81	19.84	19.83	21.1	0
10	64QAM	1	0	19.89	19.95	19.86	21.1	0
10	64QAM	1	25	19.86	19.96	19.82	21.1	0
10	64QAM	1	49	19.84	19.86	19.92	21.1	0
10	64QAM	25	0	19.79	19.80	19.79	21.1	0
10	64QAM	25	12	19.76	19.73	19.70	21.1	0.1
10	64QAM	25	25	19.82	19.80	19.82	21.1	0.1
10	64QAM	50	0	19.72	19.76	19.64	21.1	0.1
10	256QAM	1	0	17.84	17.92	17.86	19	2.1
10	256QAM	1	25	17.87	17.94	17.77	19	2.1
10	256QAM	1	49	17.82				

10

Power High Ch. / Freq. / 26995	Tune-up limit (dBm)	MPR (dB)
19.1		
19.97		
19.82	21.1	0
19.83		
19.79		
19.83	21.1	0
19.79		
19.90		
19.86		
19.89	21.1	0
19.77		
19.70		
19.79		
19.76	21.1	0
19.75		
19.84		
19.79	21.1	0
19.83		
19.89		
19.84	21	0.1
19.87		
19.91		
17.76		
17.73	19	2.1
17.76		
17.59		
17.75	19	2.1
17.72		
17.74		
26990	Tune-up limit (dBm)	MPR (dB)
19.81		
19.89	21.1	0
19.79		
19.89		
19.71	21.1	0
19.76		
19.82		
19.79		
19.86	21.1	0
19.72		
19.87		
19.75	21.1	0
19.74		
19.82		
19.73		
19.67	21.1	0
19.81		
19.83		
19.60	21	0.1
19.84		
19.39		
17.72		
17.61	19	2.1
17.83		
17.48		
17.87	19	2.1
17.83		
17.82		
27015	Tune-up limit (dBm)	MPR (dB)
19.89		
19.71	21.1	0
19.79		
19.75		
19.77	21.1	0
19.87		
19.79		
19.84	21.1	0
19.36		
19.86		
19.57		
19.73	21.1	0
19.86		
19.89		
19.81		
19.69	21.1	0
19.75		
19.81		
19.80		
19.57	21	0.1
19.43		
17.86		
17.87	19	2.1
17.63		
17.85		
17.82		
17.82	19	2.1
17.99		
17.72		
27025	Tune-up limit (dBm)	MPR (dB)
19.84		
19.76	21.1	0
19.76		
19.71		
19.73	21.1	0
19.66		
19.80		
19.82		
19.83	21.1	0
19.70		
19.85		
19.71		
19.74	21.1	0
19.82		
19.73		
19.73	21.1	0
19.69		
19.81		
19.57	21	0.1
19.36		
19.49		
17.70		
17.89	19	2.1
17.70		
17.46		
17.71	19	2.1
17.70		
17.82		
27035	Tune-up limit (dBm)	MPR (dB)
19.87		
19.89		
19.79	21.1	0
19.87		
19.72		
19.71		
19.88	21.1	0
19.82		
19.81		
19.75	21.1	0
19.67		
19.76		
19.70		
19.71	21.1	0
19.73		
19.72		
19.80		
19.82	21.1	0
19.82		
19.83		
19.43	21	0.1
17.70		
17.61		
17.71	19	2.1
17.56		
17.82		
17.56		
17.70	19	2.1



GSM850 Ant 1 ECI10	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	198	198		201	Limit	198	
Frequency (MHz)	848.2	848.4	848.8	848.2	848.4	848.8		
GPRS 4 Tx slots	27.38	27.43	27.39	29.00	24.38	24.43	24.39	26.00

Band	WCDMA II Ant 1 ECI10			WCDMA IV Ant 1 ECI10			WCDMA V Ant 1 ECI10					
	TX Channel	9262	9400	9538	Tune-up Limit (dBm)	1312	1413	1513	Tune-up Limit (dBm)	4192	4192	4293
Frequency (MHz)	1852.4	1860	1868	1852.4	1792.4	1792.6	1792.6	1792.6	1792.6	2419	2447	2448
3GPP Rel 99 RVC 12.2Kbps	15.95	16.03	15.98	17.20	16.32	16.36	16.33	17.80	24.19	24.25	24.13	25.00

Band 2 Ant 1 ECI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
20	QPSK	1	0	17.06	17.06	17.06	18.2	0	

Band 4 Ant 1 ECI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
20	QPSK	1	0	17.06	17.06	17.06	17.8	0	

Band 7 Ant 1 ECI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
20	QPSK	1	0	17.06	17.06	17.06	18.7	0	

Band 38 Ant 1 ECI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
20	QPSK	1	0	15.20	15.25	15.21	20.4	0	

Band 41 HPUE Ant 1 ECI10										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
20	QPSK	1	0	20.06	20.01	20.10	20.08	20.06	22	0

Band 66 Ant 1 ECI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
20	QPSK	1	0	14.45	14.45	14.45	17.8	0	

Band 41 Ant 1 ECI10										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
20	QPSK	1	0	13.60	13.71	13.63	13.72	13.75	20.4	0



Band 5 Ant 1 ECI10										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.67	22.67	22.67	24	0		
10	QPSK	1	25	22.56	22.70	22.54				
10	QPSK	1	49	22.51	22.67	22.66				
10	QPSK	25	0	21.69	21.74	21.66	23	1		
10	QPSK	25	25	21.63	21.83	21.68				
10	QPSK	25	25	21.49	21.66	21.48				
10	QPSK	50	0	21.65	21.70	21.55				
10	16QAM	1	0	21.68	21.58	21.53	23	1		
10	16QAM	1	25	21.59	21.47	21.53				
10	16QAM	1	49	21.47	21.60	21.45				
10	16QAM	25	0	20.68	20.75	20.66				
10	16QAM	25	12	20.67	20.71	20.60				
10	16QAM	25	25	20.52	20.69	20.54	22	2		
10	16QAM	50	0	20.66	20.64	20.65				
10	64QAM	1	0	20.63	20.66	20.45	22	2		
10	64QAM	1	25	20.61	20.54	20.52				
10	64QAM	1	49	20.43	20.69	20.48				
10	64QAM	25	0	19.74	19.67	19.66				
10	64QAM	25	12	19.59	19.62	19.70				
10	64QAM	25	25	19.61	19.57	19.44	21	3		
10	64QAM	50	0	19.59	19.70	19.52				
10	256QAM	1	0	17.76	17.69	17.65				
10	256QAM	1	25	17.65	17.69	17.56	19	5		
10	256QAM	1	49	17.61	17.61	17.52				
10	256QAM	25	0	17.61	17.75	17.54				
10	256QAM	25	12	17.64	17.61	17.52	19	5		
10	256QAM	25	25	17.60	17.59	17.59				
10	256QAM	50	0	17.49	17.44	17.42				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.65	22.85	22.59	24	0		
5	QPSK	1	24	22.43	22.58	22.56				
5	QPSK	12	0	21.60	21.68	21.64	23	1		
5	QPSK	12	7	21.54	21.55	21.57				
5	QPSK	25	0	20.61	20.59	20.52	23	1		
5	QPSK	25	0	21.53	21.61	21.50				
5	16QAM	1	0	21.56	21.51	21.43	23	1		
5	16QAM	1	12	21.56	21.35	21.44				
5	16QAM	12	24	21.52	21.51	21.47				
5	16QAM	12	0	20.50	20.65	20.50	22	2		
5	16QAM	12	7	20.48	20.68	20.48				
5	16QAM	12	13	20.44	20.66	20.42				
5	16QAM	25	0	20.51	20.59	20.56	22	2		
5	64QAM	1	0	20.51	20.58	20.42	22	2		
5	64QAM	1	12	20.51	20.41	20.49				
5	64QAM	1	24	20.36	20.63	20.46				
5	64QAM	12	0	19.67	19.57	19.53	21	3		
5	64QAM	12	7	19.45	19.50	19.67				
5	64QAM	12	13	19.48	19.45	19.38				
5	16QAM	25	0	19.66	19.64	19.49	19	5		
5	256QAM	1	0	17.69	17.56	17.58				
5	256QAM	1	12	17.63	17.56	17.47	19	5		
5	256QAM	1	24	17.40	17.55	17.44				
5	256QAM	12	0	17.47	17.61	17.46	19	5		
5	256QAM	12	7	17.57	17.48	17.44				
5	256QAM	12	13	17.48	17.50	17.54				
5	256QAM	25	0	17.26	17.67	17.36				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.67	22.61	22.66	24	0		
3	QPSK	1	8	22.43	22.61	22.41				
3	QPSK	1	14	22.46	22.54	22.63				
3	QPSK	8	0	21.63	21.71	21.58	23	1		
3	QPSK	8	4	21.51	21.50	21.54				
3	QPSK	8	7	21.39	21.57	21.37				
3	QPSK	15	0	21.63	21.66	21.44	23	1		
3	16QAM	1	0	21.54	21.45	21.46				
3	16QAM	1	8	21.54	21.44	21.41				
3	16QAM	1	14	21.43	21.57	21.35				
3	16QAM	8	0	20.56	20.66	20.53	22	2		
3	16QAM	8	4	20.47	20.62	20.47				
3	16QAM	8	7	20.48	20.62	20.42				
3	16QAM	15	0	20.64	20.58	20.55				
3	64QAM	1	0	20.51	20.56	20.40	22	2		
3	64QAM	1	8	20.58	20.44	20.41				
3	64QAM	1	14	20.38	20.60	20.37				
3	64QAM	8	0	19.62	19.64	19.63	21	3		
3	64QAM	8	4	19.62	19.50	19.67				
3	64QAM	8	7	19.47	19.50	19.31				
3	64QAM	15	0	19.48	19.61	19.40				
3	256QAM	1	0	17.50	17.62	17.61	19	5		
3	256QAM	1	8	17.58	17.60	17.51				
3	256QAM	1	14	17.44	17.59	17.46				
3	256QAM	8	0	17.54	17.70	17.46	19	5		
3	256QAM	8	4	17.48	17.48	17.43				
3	256QAM	8	7	17.57	17.52	17.50				
3	256QAM	15	0	17.38	17.55	17.29				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.57	22.59	22.61	24	0		
1.4	QPSK	1	3	22.46	22.58	22.54				
1.4	QPSK	1	5	22.46	22.61	22.50				
1.4	QPSK	3	0	22.41	22.63	22.52	23	1		
1.4	QPSK	3	3	22.40	22.46	22.46				
1.4	QPSK	3	3	22.36	22.54	22.43				
1.4	QPSK	6	0	21.49	21.57	21.44	23	1		
1.4	16QAM	1	0	21.53	21.89	21.53				
1.4	16QAM	1	4	21.40	21.53	21.48				
1.4	16QAM	1	5	21.49	21.57	21.45	23	1		
1.4	16QAM	3	0	21.36	21.62	21.45				
1.4	16QAM	3	3	21.34	21.42	21.48				
1.4	16QAM	6	0	20.62	20.62	20.57	22	2		
1.4	64QAM	1	0	20.57	20.59	20.32	22	2		
1.4	64QAM	1	3	20.48	20.53	20.48				
1.4	64QAM	1	5	20.44	20.60	20.42				
1.4	64QAM	3	0	20.50	20.65	20.45				
1.4	64QAM	3	1	20.50	20.46	20.30				
1.4	64QAM	3	3	20.42	20.35	20.35	21	3		
1.4	64QAM	6	0	19.47	19.51	19.53				
1.4	256QAM	1	0	17.73	17.56	17.67				
1.4	256QAM	1	3	17.58	17.56	17.51	19	5		
1.4	256QAM	1	5	17.62	17.56	17.50				
1.4	256QAM	3	0	17.45	17.63	17.42				
1.4	256QAM	3	1	17.50	17.56	17.41				
1.4	256QAM	3	1	17.63	17.50	17.52				
1.4	256QAM	6	0	17.44	17.46	17.32	19	5		

Band 12 Ant 1 ECI10										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.67	22.67	22.66	24	0		
10	QPSK	1	25	22.56	22.70	22.51				
10	QPSK	1	49	22.62	22.63	22.63				
10	QPSK	25	0	21.55	21.68	21.52	23	1		
10	QPSK	25	25	21.52	21.45	21.42				
10	QPSK	50	0	21.46	21.51	21.42				
10	16QAM	1	0	21.45	21.48	21.47	23	1		
10	16QAM	1	25	21.36	21.42	21.36				
10	16QAM	1	49	21.40	21.38	21.29				
10	16QAM	25	0	20.58	20.57	20.53				
10	16QAM	25	12	20.50	20.42	20.48	22	2		
10	16QAM	25	25	20.50	20.43	20.42				
10	16QAM	50	0	20.43	20.49	20.40				
10	64QAM	1	0	20.45	20.53	20.46	22	2		
10	64QAM	1	25	20.34	20.38	20.35				
10	64QAM	1	49	20.42	20.35	20.29				
10	64QAM	25	0	19.68	19.56	19.53				
10	64QAM	25	12	19.63	19.52	19.42	21	3		
10	64Q									



Band 26 Ant 1 ECI10

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
				26765	26865	26965		
Frequency (MHz)								
15	QPSK	1	0	22.73	22.74	22.75		
15	QPSK	1	37	22.99	22.75	22.62	24	0
15	QPSK	1	74	22.62	22.73	22.71		
15	QPSK	36	0	21.74	21.76	21.72		
15	QPSK	36	20	21.71	21.68	21.68		
15	QPSK	36	39	21.60	21.71	21.58	23	1
15	QPSK	75	0	21.67	21.73	21.62		
15	16QAM	1	0	21.68	21.69	21.58		
15	16QAM	1	37	21.63	21.57	21.64	23	1
15	16QAM	1	74	21.57	21.66	21.55		
15	16QAM	36	0	20.79	20.76	20.73		
15	16QAM	36	20	20.68	20.72	20.62		
15	16QAM	36	39	20.63	20.74	20.55	22	2
15	16QAM	75	0	20.70	20.72	20.68		
15	64QAM	1	0	20.68	20.70	20.63		
15	64QAM	1	37	20.56	20.61	20.62	22	2
15	64QAM	1	74	20.52	20.72	20.57		
15	64QAM	36	0	19.77	19.70	19.76		
15	64QAM	36	20	19.68	19.64	19.72		
15	64QAM	36	39	19.63	19.69	19.63	21	3
15	64QAM	75	0	19.65	19.71	19.62		
15	256QAM	1	0	17.78	17.77	17.72		
15	256QAM	1	37	17.68	17.70	17.67	19	5
15	256QAM	1	74	17.58	17.68	17.59		
15	256QAM	36	0	17.67	17.77	17.62		
15	256QAM	36	20	17.69	17.71	17.54	19	5
15	256QAM	36	39	17.63	17.61	17.59		
15	256QAM	75	0	17.59	17.66	17.60		
Channel								
				26740	26865	26990		
Frequency (MHz)								
10	QPSK	1	0	22.70	22.72	22.64		
10	QPSK	1	25	22.48	22.69	22.58	24	0
10	QPSK	1	49	22.51	22.66	22.61		
10	QPSK	25	0	21.69	21.75	21.70		
10	QPSK	25	12	21.64	21.68	21.62	23	1
10	QPSK	25	24	21.55	21.66	21.54		
10	QPSK	50	0	21.58	21.68	21.51		
10	16QAM	1	0	21.66	21.65	21.46		
10	16QAM	1	25	21.61	21.46	21.57	23	1
10	16QAM	1	49	21.50	21.63	21.44		
10	16QAM	25	0	20.75	20.75	20.72		
10	16QAM	25	12	20.62	20.68	20.56	22	2
10	16QAM	25	24	20.58	20.71	20.47		
10	16QAM	50	0	20.67	20.70	20.65		
10	64QAM	1	0	20.67	20.61	20.42		
10	64QAM	1	25	20.63	20.51	20.52	22	2
10	64QAM	1	49	20.48	20.61	20.50		
10	64QAM	25	0	19.65	19.69	19.75		
10	64QAM	25	12	19.58	19.63	19.65	21	3
10	64QAM	25	24	19.62	19.60	19.43		
10	64QAM	50	0	19.63	19.68	19.59		
10	256QAM	1	0	17.75	17.69	17.61	19	5
10	256QAM	1	25	17.66	17.61	17.55		
10	256QAM	1	49	17.51	17.66	17.48		
10	256QAM	25	0	17.56	17.71	17.61	19	5
10	256QAM	25	12	17.60	17.67	17.53		
10	256QAM	25	24	17.52	17.58	17.57		
10	256QAM	50	0	17.57	17.54	17.39		
Channel								
				816.5	831.5	846.5		
Frequency (MHz)								
5	QPSK	1	0	22.66	22.74	22.63		
5	QPSK	1	12	22.53	22.73	22.54	24	0
5	QPSK	1	24	22.60	22.70	22.61		
5	QPSK	12	0	21.70	21.69	21.62		
5	QPSK	12	7	21.69	21.66	21.58	23	1
5	QPSK	12	13	21.59	21.61	21.52		
5	QPSK	25	0	21.66	21.64	21.51		
5	16QAM	1	0	21.61	21.63	21.53	23	1
5	16QAM	1	12	21.59	21.54	21.53		
5	16QAM	1	24	21.51	21.59	21.49		
5	16QAM	12	0	20.69	20.76	20.69	22	2
5	16QAM	12	7	20.65	20.66	20.58		
5	16QAM	12	13	20.61	20.69	20.46		
5	16QAM	25	0	20.66	20.64	20.58		
5	64QAM	1	0	20.65	20.59	20.46		
5	64QAM	1	12	20.65	20.60	20.55	22	2
5	64QAM	1	24	20.45	20.71	20.48		
5	64QAM	12	0	19.72	19.60	19.67		
5	64QAM	12	7	19.68	19.63	19.67	21	3
5	64QAM	12	13	19.62	19.66	19.52		
5	64QAM	25	0	19.65	19.61	19.57		
5	256QAM	1	0	17.73	17.76	17.65	19	5
5	256QAM	1	12	17.67	17.68	17.59		
5	256QAM	1	24	17.51	17.64	17.47		
5	256QAM	12	0	17.60	17.74	17.51	19	5
5	256QAM	12	7	17.57	17.61	17.44		
5	256QAM	12	13	17.54	17.56	17.56		
5	256QAM	25	0	17.56	17.59	17.41		
Channel								
				26705	26865	27025		
Frequency (MHz)								
3	QPSK	1	0	22.69	22.72	22.65		
3	QPSK	1	8	22.51	22.63	22.51	24	0
3	QPSK	1	14	22.57	22.64	22.59		
3	QPSK	8	0	21.71	21.69	21.62		
3	QPSK	8	4	21.65	21.68	21.68	23	1
3	QPSK	8	7	21.49	21.67	21.48		
3	QPSK	15	0	21.57	21.64	21.52		
3	16QAM	1	0	21.58	21.62	21.46	23	1
3	16QAM	1	8	21.55	21.48	21.54		
3	16QAM	1	14	21.51	21.60	21.55		
3	16QAM	8	0	20.77	20.74	20.72	22	2
3	16QAM	8	4	20.62	20.72	20.61		
3	16QAM	8	7	20.57	20.72	20.49		
3	16QAM	15	0	20.65	20.71	20.60		
3	64QAM	1	0	20.63	20.66	20.46	22	2
3	64QAM	1	8	20.63	20.55	20.52		
3	64QAM	1	14	20.46	20.71	20.49		
3	64QAM	8	0	19.74	19.69	19.66		
3	64QAM	8	4	19.66	19.58	19.66	21	3
3	64QAM	8	7	19.52	19.67	19.43		
3	64QAM	15	0	19.54	19.65	19.57		
3	256QAM	1	0	17.74	17.67	17.70	19	5
3	256QAM	1	9	17.63	17.58	17.55		
3	256QAM	1	14	17.46	17.66	17.59		
3	256QAM	8	0	17.65	17.74	17.60		
3	256QAM	8	4	17.61	17.68	17.46	19	5
3	256QAM	8	7	17.54	17.61	17.57		
3	256QAM	15	0	17.48	17.63	17.44		
Channel								
				26977	26965	27033		
Frequency (MHz)								
1.4	QPSK	1	0	22.62	22.73	22.66		
1.4	QPSK	1	3	22.59	22.65	22.58	24	0
1.4	QPSK	1	5	22.52	22.70	22.60		
1.4	QPSK	3	0	22.51	22.66	22.58		
1.4	QPSK	3	1	22.45	22.55	22.57		
1.4	QPSK	3	3	22.47	22.64	22.49		
1.4	QPSK	6	0	21.55	21.69	21.53	23	1
1.4	16QAM	1	0	21.61	21.68	21.57		
1.4	16QAM	1	3	21.54	21.57	21.58		
1.4	16QAM	1	5	21.57	21.64	21.54	23	1
1.4	16QAM	3	0	21.45	21.63	21.45		
1.4	16QAM	3	1	21.50	21.67	21.55		
1.4	16QAM	3	3	21.44	21.46	21.52		
1.4	16QAM	6	0	20.67	20.71	20.59	22	2
1.4	64QAM	1	0	20.66	20.64	20.44		
1.4	64QAM	1	3	20.59	20.58	20.59		
1.4	64QAM	1	5	20.49	20.63	20.49	22	2
1.4	64QAM	3	0	20.61	20.68	20.48		
1.4	64QAM	3	1	20.58	20.57	20.41		
1.4	64QAM	3	3	20.54	20.48	20.49		
1.4	64QAM	6	0	19.56	19.63	19.62	21	3
1.4	256QAM	1	0	17.76	17.66	17.69	19	5
1.4	256QAM	1	3	17.67	17.65	17.57		
1.4	256QAM	1	5	17.58	17.62	17.57		
1.4	256QAM	3	0	17.59	17.68	17.54	19	5
1.4	256QAM	3	1	17.58	17.63	17.45		
1.4	256QAM	3						



OSM1900 Ant 2 ECI10	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	912	945	930		912	945	930	
TX Channel	1860.2	1880	1909.8	1860.2	1880	1909.8	1830	
Frequency (MHz)	17.28	17.33	17.30	14.28	14.33	14.30	15.30	
GPRS 4 Tx slots								

Band	WCDMA II Ant 2 ECI10			WCDMA IV Ant 2 ECI10			Tune-up Limit (dBm)	
	TX Channel	9262	9400	9538	TX Channel	1312		1413
Rx Channel	9492	9630	9768	1538	1639	1738	1738	
Frequency (MHz)	1862.4	1880	1909.6	1712.4	1732.6	1762.6	16.10	
3GPP Rel 99	RVC-12.2Kbps	12.91	12.99	12.95	13.90	14.62	14.66	14.63

Band 2 Ant 2 ECI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				18700	18900	19100			
	Frequency (MHz)			1860	1890	1920			
20	QPSK	1	0	12.31	12.36	12.33	13.3	0	

Band 4 Ant 2 ECI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				20050	20175	20300			
	Frequency (MHz)			12	12.25	12.4			
20	QPSK	1	0	12.25	12.35	12.35	13.8	0	

Band 7 Ant 2 ECI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				20460	21190	21350			
	Frequency (MHz)			2515	2535	2560			
20	QPSK	1	0	13.10	13.15	13.03	14.2	0	

Band 38 Ant 2 ECI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				37850	38000	38150			
	Frequency (MHz)			2565	2595	2610			
20	QPSK	1	0	15.01	15.03	15.04	16.2	0	

Band 66 Ant 2 ECI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				132072	132322	132572			
	Frequency (MHz)			122	1245	1270			
20	QPSK	1	0	12.45	12.45	12.44	13.8	0	

Band 41 Ant 2 ECI10										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40185	40620	41055	41490		
	Frequency (MHz)			2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	15.92	15.90	15.93	15.90	16.2	0	

Band 41 HPUE Ant 2 ECI10										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40185	40620	41055	41490		
	Frequency (MHz)			2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	15.22	15.25	15.23	15.30	15.25	17.8	0



Band	WCDMA Rev 3 EC10			WCDMA Rev 3 EC10			Tune-up Limit (dBm)
	TX Channel	9462	9490	9638	1332	1413	
Rx Channel	9462	9500	9538	1332	1408	1438	
Frequency (MHz)	1612.4	1616	1619.6	1724.4	1728.6	1732.4	
3GPP Rel 99	RMC 12-20kaps	16.28	16.31	16.25	17.40	16.74	16.68
							18.10

Band 2 Ant 3 EC10								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18800	19100		
Frequency (MHz)				1863	1865	1903		
20	QPSK	1	0	15.13	15.25	15.11	16.5	0

Band 4 Ant 3 EC10								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20150	20300		
Frequency (MHz)				1720	1722.5	1745		
20	QPSK	1	0	15.23	15.25	15.25	21.2	0

Band 7 Ant 3 EC10								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				20600	21100	21350		
Frequency (MHz)				2310	2335	2360		
20	QPSK	1	0	15.71	15.74	15.66	16.8	0

Band 38 Ant 3 EC10								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				37650	38050	38150		
Frequency (MHz)				2940	2955	2910		
20	QPSK	1	0	17.40	17.41	17.38	18.8	0

Band 41 HPUE Ant 3 EC10										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2940	2945.5	2951	2936.5	2930		
20	QPSK	1	0	18.62	18.63	18.70	18.66	18.68	20.4	0

Band 66 Ant 3 EC10								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				32072	132252	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	15.71	15.74	15.66	21.2	0

Band 41 Ant 3 EC10										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2940	2945.5	2951	2936.5	2930		
20	QPSK	1	0	17.43	17.45	17.50	17.49	17.46	18.8	0



Band 42 Part 27Q Ant 4 EC110

Channel	BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel					42160	42600	42995		
Frequency (MHz)					3460	3500	3540		
20	QPSK	1	0	13.10	13.14	13.08			
20	QPSK	1	49	12.99	13.05	13.00	14.7	0	
20	QPSK	1	99	13.05	13.07	12.95			
20	QPSK	50	0	12.99	13.12	12.95			
20	QPSK	50	24	13.04	13.11	12.97			
20	QPSK	50	50	13.05	13.07	12.94	14.7	0	
20	QPSK	100	0	13.04	13.10	12.99			
20	16QAM	1	0	13.00	13.08	13.01			
20	16QAM	1	49	12.94	12.99	12.97	14.7	0	
20	16QAM	1	99	13.01	12.97	12.90			
20	16QAM	50	0	12.87	13.05	12.86			
20	16QAM	50	24	12.91	12.98	12.83	14.7	0	
20	16QAM	50	50	12.86	12.85	12.86			
20	16QAM	100	0	13.04	13.04	12.88			
20	64QAM	1	0	13.01	13.05	12.95			
20	64QAM	1	49	12.94	12.96	12.98	14.7	0	
20	64QAM	1	99	12.97	13.00	12.90			
20	64QAM	50	0	12.85	13.02	12.81			
20	64QAM	50	24	12.95	12.98	12.85			
20	64QAM	50	50	12.86	12.96	12.81	14.7	0	
20	64QAM	100	0	13.03	13.02	12.95			
20	256QAM	1	0	13.01	13.03	13.01			
20	256QAM	1	49	12.97	12.99	12.92	14.7	0	
20	256QAM	1	99	12.97	13.02	12.91			
20	256QAM	50	0	12.96	13.04	12.91			
20	256QAM	50	24	13.00	13.04	12.87	14.7	0	
20	256QAM	50	50	13.01	13.04	12.86			
20	256QAM	100	0	12.98	13.05	12.89			
Channel					42165	42600	43015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3475.5	3500	3542.5		
15	QPSK	1	0	13.00	13.05	13.01			
15	QPSK	1	37	12.96	13.02	12.93	14.7	0	
15	QPSK	1	74	13.01	13.05	12.84			
15	QPSK	35	0	12.94	13.09	12.87			
15	QPSK	35	20	12.96	13.00	12.90	14.7	0	
15	QPSK	35	39	12.97	13.03	12.82			
15	QPSK	75	0	12.96	13.08	12.90			
15	16QAM	1	0	12.80	12.88	12.97			
15	16QAM	1	37	12.88	12.96	12.93	14.7	0	
15	16QAM	1	74	12.97	12.91	12.82			
15	16QAM	35	0	12.75	12.93	12.74			
15	16QAM	35	20	12.79	12.91	12.73	14.7	0	
15	16QAM	35	39	12.93	12.89	12.82			
15	16QAM	75	0	13.00	12.94	12.79			
15	64QAM	1	0	12.86	12.97	12.81			
15	64QAM	1	37	12.81	12.92	12.80	14.7	0	
15	64QAM	1	74	12.87	12.84	12.83			
15	64QAM	35	0	12.76	12.98	12.75			
15	64QAM	35	20	12.91	12.90	12.76	14.7	0	
15	64QAM	35	39	12.87	12.83	12.70			
15	64QAM	75	0	12.93	12.88	12.80			
15	256QAM	1	0	12.85	12.96	12.83			
15	256QAM	1	37	12.89	12.89	12.84	14.7	0	
15	256QAM	1	74	12.89	12.92	12.78			
15	256QAM	35	0	12.86	12.96	12.86			
15	256QAM	35	20	12.89	12.96	12.81	14.7	0	
15	256QAM	35	39	12.89	12.95	12.75			
15	256QAM	75	0	12.90	13.01	12.82			
Channel					42170	42600	43020	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3485	3500	3545		
10	QPSK	1	0	12.97	13.04	13.06			
10	QPSK	1	25	12.92	12.96	12.90	14.7	0	
10	QPSK	1	49	13.01	12.95	12.83			
10	QPSK	25	0	12.88	13.07	12.93			
10	QPSK	25	12	12.96	13.03	12.89	14.7	0	
10	QPSK	25	25	12.99	12.99	12.89			
10	QPSK	50	0	13.01	13.02	12.92			
10	16QAM	1	0	12.91	13.03	12.92			
10	16QAM	1	25	12.86	12.95	12.91	14.7	0	
10	16QAM	1	49	12.89	12.85	12.76			
10	16QAM	25	0	12.84	12.98	12.81			
10	16QAM	25	12	12.88	12.86	12.79	14.7	0	
10	16QAM	25	25	12.85	12.95	12.80			
10	16QAM	50	0	12.95	12.98	12.75			
10	64QAM	1	0	12.93	12.97	12.88			
10	64QAM	1	25	12.90	12.87	12.85	14.7	0	
10	64QAM	1	49	12.84	12.92	12.83			
10	64QAM	25	0	12.83	12.97	12.76			
10	64QAM	25	12	12.85	12.95	12.80	14.7	0	
10	64QAM	25	25	12.87	12.84	12.74			
10	64QAM	50	0	12.93	12.99	12.82			
10	256QAM	1	0	12.99	12.92	12.96			
10	256QAM	1	25	12.84	12.85	12.79	14.7	0	
10	256QAM	1	49	12.85	12.86	12.80			
10	256QAM	25	0	12.86	13.01	12.79			
10	256QAM	25	12	12.87	12.99	12.74	14.7	0	
10	256QAM	25	25	12.97	13.01	12.73			
10	256QAM	50	0	12.91	12.94	12.83			
Channel					42175	42600	43005	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3492.5	3500	3547.5		
5	QPSK	1	0	13.00	13.06	13.06			
5	QPSK	1	12	12.97	13.00	12.93	14.7	0	
5	QPSK	1	24	13.02	13.01	12.82			
5	QPSK	12	0	12.93	13.09	12.89			
5	QPSK	12	7	13.01	13.04	12.84	14.7	0	
5	QPSK	12	13	13.01	12.99	12.80			
5	QPSK	25	0	12.94	12.97	12.92			
5	16QAM	1	0	12.93	13.06	12.98	14.7	0	
5	16QAM	1	12	12.91	12.98	12.85			
5	16QAM	1	24	12.96	12.85	12.84			
5	16QAM	12	0	12.78	12.94	12.76			
5	16QAM	12	7	12.78	12.92	12.76	14.7	0	
5	16QAM	12	13	12.89	12.96	12.80			
5	16QAM	25	0	12.90	13.01	12.86			
5	64QAM	1	0	12.89	12.95	12.90			
5	64QAM	1	12	12.89	12.89	12.86	14.7	0	
5	64QAM	1	24	12.89	12.90	12.80			
5	64QAM	12	0	12.82	12.97	12.78			
5	64QAM	12	7	12.82	12.93	12.71	14.7	0	
5	64QAM	12	13	12.84	12.92	12.73			
5	64QAM	25	0	12.89	12.91	12.86			
5	256QAM	1	0	12.97	12.91	12.92	14.7	0	
5	256QAM	1	12	12.94	12.86	12.76			
5	256QAM	1	24	12.92	12.93	12.82			
5	256QAM	12	0	12.92	12.94	12.77			
5	256QAM	12	7	12.93	13.02	12.81	14.7	0	
5	256QAM	12	13	12.95	13.02	12.74			
5	256QAM	25	0	12.94	12.91	12.78			



Band 42 Part 27Q Ant 6 EC110

Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				42160	42960	42992				
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	16.38	16.42	16.36	17.5	0		
20	QPSK	1	49	16.35	16.39	16.29				
20	QPSK	1	99	16.29	16.28	16.32				
20	QPSK	50	0	16.30	16.38	16.31				
20	QPSK	50	24	16.33	16.33	16.24				
20	QPSK	50	50	16.27	16.30	16.22				
20	QPSK	100	0	16.27	16.34	16.31				
20	16QAM	1	0	16.31	16.31	16.23				
20	16QAM	1	49	16.31	16.36	16.25				
20	16QAM	1	99	16.16	16.24	16.27				
20	16QAM	50	0	16.23	16.30	16.20	17.5	0		
20	16QAM	50	24	16.26	16.20	16.10				
20	16QAM	50	50	16.17	16.24	16.10				
20	16QAM	100	0	16.23	16.26	16.25				
20	64QAM	1	0	16.35	16.29	16.33				
20	64QAM	1	49	16.30	16.31	16.21				
20	64QAM	1	99	16.25	16.25	16.27				
20	64QAM	50	0	16.17	16.31	16.22				
20	64QAM	50	24	16.23	16.24	16.11				
20	64QAM	50	50	16.18	16.23	16.09				
20	256QAM	1	0	16.34	16.32	16.30	17.5	0		
20	256QAM	1	49	16.29	16.32	16.22				
20	256QAM	1	99	16.25	16.15	16.21				
20	256QAM	50	0	16.20	16.36	16.27				
20	256QAM	50	24	16.22	16.30	16.20				
20	256QAM	50	50	16.17	16.27	16.09				
20	256QAM	100	0	16.22	16.32	16.18				
Channel				42165	42960	43015				
Frequency (MHz)				3475.5	3500	3542.5				
15	QPSK	1	0	16.23	16.31	16.23			17.5	0
15	QPSK	1	37	16.27	16.32	16.21				
15	QPSK	1	74	16.27	16.24	16.27				
15	QPSK	36	0	16.24	16.25	16.22				
15	QPSK	36	20	16.20	16.25	16.11				
15	QPSK	36	39	16.17	16.17	16.16				
15	QPSK	75	0	16.20	16.22	16.25				
15	16QAM	1	0	16.23	16.18	16.10				
15	16QAM	1	37	16.25	16.31	16.22				
15	16QAM	1	74	16.10	16.22	16.17				
15	16QAM	36	0	16.21	16.21	16.12	17.5	0		
15	16QAM	36	20	16.13	16.15	16.00				
15	16QAM	36	39	16.10	16.13	16.03				
15	16QAM	75	0	16.16	16.18	16.15				
15	16QAM	1	0	16.28	16.22	16.20				
15	16QAM	1	37	16.16	16.16	16.18				
15	16QAM	1	74	16.22	16.21	16.24				
15	64QAM	36	0	16.13	16.26	16.14				
15	64QAM	36	20	16.09	16.16	16.04				
15	64QAM	36	39	16.10	16.18	15.97				
15	64QAM	75	0	16.08	16.15	16.05				
15	256QAM	1	0	16.20	16.26	16.21	17.5	0		
15	256QAM	1	37	16.18	16.22	16.09				
15	256QAM	1	74	16.12	16.03	16.19				
15	256QAM	36	0	16.07	16.26	16.17				
15	256QAM	36	20	16.11	16.18	16.13				
15	256QAM	36	39	16.14	16.15	15.98				
15	256QAM	75	0	16.12	16.19	16.09				
Channel				42160	42960	43000				
Frequency (MHz)				3465	3500	3540				
10	QPSK	1	0	16.31	16.35	16.33			17.5	0
10	QPSK	1	25	16.31	16.30	16.22				
10	QPSK	1	49	16.19	16.20	16.26				
10	QPSK	25	0	16.27	16.33	16.25				
10	QPSK	25	12	16.24	16.29	16.16				
10	QPSK	25	25	16.21	16.16	16.12				
10	QPSK	50	0	16.15	16.31	16.25				
10	16QAM	1	0	16.21	16.21	16.20				
10	16QAM	1	25	16.19	16.26	16.21				
10	16QAM	1	49	16.03	16.17	16.16				
10	16QAM	25	0	16.13	16.23	16.06	17.5	0		
10	16QAM	25	12	16.16	16.11	16.06				
10	16QAM	25	25	16.10	16.19	16.04				
10	16QAM	50	0	16.19	16.16	16.14				
10	64QAM	1	0	16.23	16.26	16.29				
10	64QAM	1	25	16.19	16.22	16.16				
10	64QAM	1	49	16.22	16.22	16.17				
10	64QAM	25	0	16.11	16.27	16.10				
10	64QAM	25	12	16.13	16.21	16.02				
10	64QAM	25	25	16.09	16.21	16.04				
10	256QAM	1	0	16.12	16.20	16.06	17.5	0		
10	256QAM	1	25	16.20	16.25	16.13				
10	256QAM	1	49	16.19	16.06	16.16				
10	256QAM	25	0	16.17	16.34	16.19				
10	256QAM	25	12	16.13	16.17	16.07				
10	256QAM	25	25	16.14	16.19	15.98				
10	256QAM	50	0	16.12	16.21	16.12				
Channel				42115	42960	43065				
Frequency (MHz)				3492.5	3500	3547.5				
5	QPSK	1	0	16.31	16.37	16.23			17.5	0
5	QPSK	1	12	16.32	16.25	16.22				
5	QPSK	1	24	16.26	16.18	16.26				
5	QPSK	12	0	16.23	16.28	16.26				
5	QPSK	12	7	16.28	16.26	16.18				
5	QPSK	12	13	16.17	16.27	16.12				
5	QPSK	25	0	16.22	16.31	16.28				
5	16QAM	1	0	16.19	16.25	16.13	17.5	0		
5	16QAM	1	12	16.24	16.31	16.21				
5	16QAM	1	24	16.10	16.12	16.18				
5	16QAM	12	0	16.10	16.26	16.12				
5	16QAM	12	7	16.19	16.14	16.05				
5	16QAM	12	13	16.07	16.15	15.98				
5	16QAM	25	0	16.16	16.13	16.18				
5	64QAM	1	0	16.25	16.19	16.27				
5	64QAM	1	12	16.22	16.24	16.17				
5	64QAM	1	24	16.15	16.16	16.14				
5	64QAM	12	0	16.07	16.27	16.11	17.5	0		
5	64QAM	12	7	16.10	16.17	15.99				
5	64QAM	12	13	16.11	16.12	15.96				
5	64QAM	25	0	16.09	16.09	16.10				
5	256QAM	1	0	16.27	16.30	16.17				
5	256QAM	1	12	16.17	16.19	16.15				
5	256QAM	1	24	16.15	16.11	16.09				
5	256QAM	12	0	16.11	16.24	16.16				
5	256QAM	12	7	16.20	16.23	16.17				
5	256QAM	12	13	16.06	16.15	15.97				
5	256QAM	25	0	16.10	16.29	16.07				



Band 42 Part 27Q Ant 3 EC110

Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				42160	42600	42995		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	17.89	17.92	17.85		
20	QPSK	1	49	17.75	17.89	17.82	19.4	0
20	QPSK	1	99	17.87	17.88	17.78		
20	QPSK	50	0	17.81	17.85	17.83		
20	QPSK	50	24	17.81	17.79	17.80		
20	QPSK	50	50	17.83	17.83	17.89	19.4	0
20	QPSK	100	0	17.78	17.82	17.81		
20	16QAM	1	0	17.80	17.82	17.76		
20	16QAM	1	49	17.63	17.85	17.74	19.4	0
20	16QAM	1	99	17.74	17.80	17.72		
20	16QAM	50	0	17.78	17.72	17.69		
20	16QAM	50	24	17.67	17.66	17.72	19.4	0
20	16QAM	50	50	17.79	17.70	17.74		
20	16QAM	100	0	17.66	17.72	17.70		
20	64QAM	1	0	17.82	17.80	17.75		
20	64QAM	1	49	17.68	17.83	17.70	19.4	0
20	64QAM	1	99	17.78	17.76	17.66		
20	64QAM	50	0	17.76	17.79	17.79		
20	64QAM	50	24	17.74	17.70	17.73		
20	64QAM	50	50	17.78	17.80	17.76	19.4	0
20	64QAM	100	0	17.72	17.71	17.72		
20	256QAM	1	0	17.80	17.47	17.41		
20	256QAM	1	49	17.34	17.47	17.46	19	0.4
20	256QAM	1	99	17.42	17.52	17.36		
20	256QAM	50	0	17.37	17.46	17.46		
20	256QAM	50	24	17.39	17.33	17.36	19	0.4
20	256QAM	50	50	17.46	17.48	17.35		
20	256QAM	100	0	17.33	17.42	17.46		
Channel				42165	42600	43015		
Frequency (MHz)				3457.5	3500	3542.5		
15	QPSK	1	0	17.81	17.79	17.80		
15	QPSK	1	37	17.68	17.79	17.78	19.4	0
15	QPSK	1	74	17.82	17.82	17.84		
15	QPSK	36	0	17.74	17.76	17.73		
15	QPSK	36	20	17.77	17.76	17.78	19.4	0
15	QPSK	36	39	17.73	17.78	17.75		
15	QPSK	75	0	17.76	17.73	17.68		
15	16QAM	1	0	17.71	17.80	17.68		
15	16QAM	1	37	17.67	17.81	17.65	19.4	0
15	16QAM	1	74	17.62	17.74	17.58		
15	16QAM	36	0	17.72	17.62	17.63		
15	16QAM	36	20	17.62	17.63	17.65	19.4	0
15	16QAM	36	39	17.72	17.62	17.67		
15	16QAM	75	0	17.63	17.67	17.72		
15	64QAM	1	0	17.75	17.66	17.66		
15	64QAM	1	37	17.63	17.74	17.66	19.4	0
15	64QAM	1	74	17.71	17.67	17.65		
15	64QAM	36	0	17.68	17.76	17.72		
15	64QAM	36	20	17.70	17.63	17.70	19.4	0
15	64QAM	36	39	17.65	17.72	17.62		
15	64QAM	75	0	17.60	17.63	17.68		
15	256QAM	1	0	17.43	17.43	17.39		
15	256QAM	1	37	17.02	17.44	17.39	19	0.4
15	256QAM	1	74	17.35	17.42	17.32		
15	256QAM	36	0	17.28	17.43	17.41		
15	256QAM	36	20	17.29	17.28	17.31	19	0.4
15	256QAM	36	39	17.34	17.36	17.30		
15	256QAM	75	0	17.25	17.40	17.42		
Channel				42160	42600	43000		
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	17.83	17.89	17.79		
10	QPSK	1	25	17.70	17.81	17.77	19.4	0
10	QPSK	1	49	17.84	17.85	17.75		
10	QPSK	25	0	17.74	17.82	17.78		
10	QPSK	25	12	17.78	17.73	17.75	19.4	0
10	QPSK	25	25	17.74	17.78	17.74		
10	QPSK	50	0	17.70	17.75	17.78		
10	16QAM	1	0	17.67	17.75	17.70		
10	16QAM	1	25	17.67	17.80	17.70	19.4	0
10	16QAM	1	49	17.61	17.71	17.67		
10	16QAM	25	0	17.70	17.60	17.65		
10	16QAM	25	12	17.69	17.67	17.61	19.4	0
10	16QAM	25	25	17.77	17.66	17.67		
10	16QAM	50	0	17.68	17.64	17.68		
10	64QAM	1	0	17.68	17.76	17.65		
10	64QAM	1	25	17.58	17.73	17.65	19.4	0
10	64QAM	1	49	17.74	17.66	17.66		
10	64QAM	25	0	17.66	17.74	17.77		
10	64QAM	25	12	17.64	17.62	17.64	19.4	0
10	64QAM	25	25	17.71	17.71	17.68		
10	256QAM	1	0	17.64	17.60	17.61		
10	256QAM	1	0	17.46	17.39	17.28		
10	256QAM	1	25	17.27	17.36	17.36	19	0.4
10	256QAM	1	49	17.37	17.43	17.27		
10	256QAM	25	0	17.34	17.37	17.36		
10	256QAM	25	12	17.29	17.21	17.22	19	0.4
10	256QAM	25	25	17.41	17.39	17.31		
10	256QAM	50	0	17.23	17.37	17.36		
Channel				42115	42600	43000		
Frequency (MHz)				3462.5	3500	3547.5		
5	QPSK	1	0	17.67	17.84	17.79		
5	QPSK	1	12	17.73	17.82	17.69	19.4	0
5	QPSK	1	24	17.73	17.78	17.75		
5	QPSK	12	0	17.67	17.79	17.77		
5	QPSK	12	7	17.71	17.73	17.73	19.4	0
5	QPSK	12	13	17.74	17.76	17.67		
5	QPSK	25	0	17.68	17.73	17.70		
5	16QAM	1	0	17.67	17.75	17.70		
5	16QAM	1	12	17.67	17.73	17.61	19.4	0
5	16QAM	1	24	17.61	17.71	17.68		
5	16QAM	12	0	17.66	17.60	17.57		
5	16QAM	12	7	17.61	17.56	17.63	19.4	0
5	16QAM	12	13	17.70	17.60	17.59		
5	16QAM	25	0	17.61	17.68	17.66		
5	64QAM	1	0	17.70	17.68	17.61		
5	64QAM	1	12	17.62	17.76	17.66	19.4	0
5	64QAM	1	24	17.69	17.75	17.57		
5	64QAM	12	0	17.72	17.67	17.73		
5	64QAM	12	7	17.66	17.62	17.66	19.4	0
5	64QAM	12	13	17.76	17.73	17.63		
5	64QAM	25	0	17.62	17.64	17.65		
5	256QAM	1	0	17.47	17.41	17.38		
5	256QAM	1	12	17.24	17.43	17.43	19	0.4
5	256QAM	1	24	17.28	17.44	17.23		
5	256QAM	12	0	17.29	17.33	17.34		
5	256QAM	12	7	17.20	17.21	17.31	19	0.4
5	256QAM	12	13	17.28	17.40	17.26		
5	256QAM	25	0	17.26	17.39	17.44		



Band 42 Part 27Q Ant 8 EC10

Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				42160	42600	42995		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	19.50	19.55	19.48		
20	QPSK	1	49	19.45	19.43	19.36	21	0
20	QPSK	1	99	19.42	19.47	19.38		
20	QPSK	50	0	19.40	19.32	19.39		
20	QPSK	50	24	19.37	19.49	19.35		
20	QPSK	50	50	19.41	19.44	19.35	21	0
20	QPSK	100	0	19.45	19.51	19.43		
20	16QAM	1	0	19.43	19.48	19.38		
20	16QAM	1	49	19.38	19.39	19.24	21	0
20	16QAM	1	99	19.33	19.37	19.36		
20	16QAM	50	0	19.37	19.38	19.36		
20	16QAM	50	24	19.33	19.37	19.23		
20	16QAM	50	50	19.37	19.37	19.23	21	0
20	16QAM	100	0	19.43	19.42	19.31		
20	64QAM	1	0	19.38	19.43	19.43		
20	64QAM	1	49	19.38	19.34	19.32	21	0
20	64QAM	1	99	19.35	19.40	19.29		
20	64QAM	50	0	19.33	19.45	19.30		
20	64QAM	50	24	19.33	19.41	19.25		
20	64QAM	50	50	19.36	19.38	19.27	21	0
20	64QAM	100	0	19.35	19.43	19.34		
20	256QAM	1	0	17.83	17.89	17.43		
20	256QAM	1	49	17.49	17.48	17.40	19	2
20	256QAM	1	99	17.41	17.48	17.36		
20	256QAM	50	0	17.38	17.52	17.34		
20	256QAM	50	24	17.35	17.48	17.35	19	2
20	256QAM	50	50	17.41	17.44	17.36		
20	256QAM	100	0	17.42	17.48	17.44		
Channel				42165	42600	43015		
Frequency (MHz)				3475.5	3500	3542.5		
15	QPSK	1	0	19.48	19.45	19.44		
15	QPSK	1	37	19.42	19.41	19.28	21	0
15	QPSK	1	74	19.35	19.40	19.35		
15	QPSK	36	0	19.38	19.39	19.33		
15	QPSK	36	20	19.38	19.35	19.29		
15	QPSK	36	39	19.37	19.37	19.29	21	0
15	QPSK	75	0	19.42	19.40	19.30		
15	16QAM	1	0	19.36	19.43	19.31		
15	16QAM	1	37	19.36	19.36	19.16	21	0
15	16QAM	1	74	19.20	19.26	19.18		
15	16QAM	36	0	19.25	19.35	19.29		
15	16QAM	36	20	19.27	19.33	19.13		
15	16QAM	36	39	19.31	19.24	19.18	21	0
15	16QAM	75	0	19.40	19.28	19.26		
15	64QAM	1	0	19.32	19.40	19.24		
15	64QAM	1	37	19.31	19.27	19.26	21	0
15	64QAM	1	74	19.26	19.28	19.17		
15	64QAM	36	0	19.20	19.40	19.27		
15	64QAM	36	20	19.27	19.33	19.13		
15	64QAM	36	39	19.27	19.28	19.19	21	0
15	64QAM	75	0	19.26	19.36	19.21		
15	256QAM	1	0	17.40	17.48	17.30		
15	256QAM	1	37	17.46	17.41	17.37	19	2
15	256QAM	1	74	17.35	17.45	17.28		
15	256QAM	36	0	17.29	17.45	17.28		
15	256QAM	36	20	17.28	17.42	17.24	19	2
15	256QAM	36	39	17.29	17.30	17.28		
15	256QAM	75	0	17.37	17.38	17.32		
Channel				42160	42600	43000		
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	19.46	19.41	19.46		
10	QPSK	1	25	19.34	19.36	19.24	21	0
10	QPSK	1	49	19.30	19.38	19.34		
10	QPSK	25	0	19.29	19.48	19.28		
10	QPSK	25	12	19.27	19.45	19.32	21	0
10	QPSK	25	25	19.34	19.41	19.26		
10	QPSK	50	0	19.39	19.48	19.38		
10	16QAM	1	0	19.37	19.38	19.32		
10	16QAM	1	25	19.33	19.28	19.14	21	0
10	16QAM	1	49	19.28	19.23	19.25		
10	16QAM	25	0	19.34	19.25	19.28		
10	16QAM	25	12	19.21	19.32	19.15	21	0
10	16QAM	25	25	19.33	19.29	19.09		
10	16QAM	50	0	19.38	19.28	19.25		
10	64QAM	1	0	19.25	19.39	19.30		
10	64QAM	1	25	19.28	19.25	19.22	21	0
10	64QAM	1	49	19.27	19.35	19.20		
10	64QAM	25	0	19.20	19.34	19.21		
10	64QAM	25	12	19.30	19.32	19.16	21	0
10	64QAM	25	25	19.24	19.38	19.19		
10	256QAM	1	0	19.33	19.33	19.30		
10	256QAM	1	0	17.49	17.56	17.32		
10	256QAM	1	25	17.45	17.36	17.33	19	2
10	256QAM	1	49	17.27	17.39	17.28		
10	256QAM	25	0	17.32	17.45	17.29		
10	256QAM	25	12	17.26	17.34	17.32	19	2
10	256QAM	25	25	17.34	17.38	17.24		
10	256QAM	50	0	17.25	17.39	17.41		
Channel				42115	42600	43005		
Frequency (MHz)				3492.5	3500	3547.5		
5	QPSK	1	0	19.39	19.52	19.43		
5	QPSK	1	12	19.43	19.38	19.23	21	0
5	QPSK	1	24	19.32	19.41	19.29		
5	QPSK	12	0	19.29	19.39	19.33		
5	QPSK	12	7	19.30	19.43	19.27	21	0
5	QPSK	12	13	19.33	19.33	19.32		
5	QPSK	25	0	19.32	19.49	19.30		
5	16QAM	1	0	19.37	19.40	19.24	21	0
5	16QAM	1	12	19.26	19.27	19.14		
5	16QAM	1	24	19.31	19.27	19.20		
5	16QAM	12	0	19.34	19.28	19.26		
5	16QAM	12	7	19.22	19.32	19.09	21	0
5	16QAM	12	13	19.34	19.27	19.13		
5	16QAM	25	0	19.32	19.34	19.28		
5	64QAM	1	0	19.33	19.32	19.41		
5	64QAM	1	12	19.32	19.24	19.26	21	0
5	64QAM	1	24	19.22	19.32	19.16		
5	64QAM	12	0	19.22	19.36	19.17		
5	64QAM	12	7	19.24	19.34	19.16	21	0
5	64QAM	12	13	19.33	19.29	19.19		
5	64QAM	25	0	19.28	19.39	19.27		
5	256QAM	1	0	17.47	17.50	17.39		
5	256QAM	1	12	17.46	17.43	17.27	19	2
5	256QAM	1	24	17.29	17.39	17.23		
5	256QAM	12	0	17.26	17.42	17.24		
5	256QAM	12	7	17.21	17.38	17.21	19	2
5	256QAM	12	13	17.25	17.42	17.34		
5	256QAM	25	0	17.38	17.45	17.32		



CA_66B Ant 2

Combination 15MHz+5MHz (75RB+25RB)

PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.63	24.00
132322	132415	QPSK	1	74	1	0	22.85	24.00
132597	132504	QPSK	1	0	1	24	22.55	24.00

CA_66B Ant 3

Combination 15MHz+5MHz (75RB+25RB)

PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.67	24.00
132322	132415	QPSK	1	74	1	0	22.78	24.00
132597	132504	QPSK	1	0	1	24	22.70	24.00

CA_66B Ant 0

Combination 15MHz+5MHz (75RB+25RB)

PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.48	24.00
132322	132415	QPSK	1	74	1	0	22.53	24.00
132597	132504	QPSK	1	0	1	24	22.25	24.00

CA_66B Ant 1

Combination 15MHz+5MHz (75RB+25RB)

PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.51	24.00
132322	132415	QPSK	1	74	1	0	22.64	24.00
132597	132504	QPSK	1	0	1	24	22.46	24.00

UL CA_Full Power

CA_66C Ant 2

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		
132072	132270	QPSK	1	99	1	0	22.71	24.00
132322	132520	QPSK	1	99	1	0	22.74	24.00
132572	132374	QPSK	1	0	1	99	22.63	24.00

CA_66C Ant 3

Combination 20MHz+20MHz (100RB+100RB)

PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	22.89	24.00
132322	132520	QPSK	1	99	1	0	22.83	24.00
132572	132374	QPSK	1	0	1	99	22.75	24.00

CA_66C Ant 0

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		
132072	132270	QPSK	1	99	1	0	22.52	24.00
132322	132520	QPSK	1	99	1	0	22.57	24.00
132572	132374	QPSK	1	0	1	99	22.38	24.00

CA_66C Ant 1

Combination 20MHz+20MHz (100RB+100RB)

PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	22.58	24.00
132322	132520	QPSK	1	99	1	0	22.68	24.00
132572	132374	QPSK	1	0	1	99	22.59	24.00

CA_41C Ant 2

Combination 20MHz+20MHz (100RB+100RB)

PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.63	24.00
40185	40383	QPSK	1	99	1	0	22.69	24.00
40620	40818	QPSK	1	99	1	0	22.73	24.00
41055	41253	QPSK	1	99	1	0	22.67	24.00
41490	41292	QPSK	1	0	1	99	22.72	24.00

CA_41C Ant 3

Combination 20MHz+20MHz (100RB+100RB)

PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.64	24.00
40185	40383	QPSK	1	99	1	0	22.73	24.00
40620	40818	QPSK	1	99	1	0	22.85	24.00
41055	41253	QPSK	1	99	1	0	22.78	24.00
41490	41292	QPSK	1	0	1	99	22.75	24.00

CA_41C Ant 0

Combination 20MHz+20MHz (100RB+100RB)

PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.64	24.00
40185	40383	QPSK	1	99	1	0	22.71	24.00
40620	40818	QPSK	1	99	1	0	22.85	24.00
41055	41253	QPSK	1	99	1	0	22.8	24.00
41490	41292	QPSK	1	0	1	99	22.74	24.00

CA_41C Ant 1

Combination 20MHz+20MHz (100RB+100RB)

PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.45	24.00
40185	40383	QPSK	1	99	1	0	22.39	24.00
40620	40818	QPSK	1	99	1	0	22.55	24.00
41055	41253	QPSK	1	99	1	0	22.48	24.00
41490	41292	QPSK	1	0	1	99	22.39	24.00



CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.7	27.00
40185	40383	QPSK	1	99	1	0	25.76	27.00
40620	40818	QPSK	1	99	1	0	25.81	27.00
41055	41253	QPSK	1	99	1	0	25.67	27.00
41490	41292	QPSK	1	0	1	99	25.78	27.00

CA_41C HPUE Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.6	27.00
40185	40383	QPSK	1	99	1	0	25.73	27.00
40620	40818	QPSK	1	99	1	0	25.77	27.00
41055	41253	QPSK	1	99	1	0	25.71	27.00
41490	41292	QPSK	1	0	1	99	25.64	27.00

CA_41C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.55	27.00
40185	40383	QPSK	1	99	1	0	25.53	27.00
40620	40818	QPSK	1	99	1	0	25.59	27.00
41055	41253	QPSK	1	99	1	0	25.47	27.00
41490	41292	QPSK	1	0	1	99	25.58	27.00

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.53	27.00
40185	40383	QPSK	1	99	1	0	25.62	27.00
40620	40818	QPSK	1	99	1	0	25.63	27.00
41055	41253	QPSK	1	99	1	0	25.54	27.00
41490	41292	QPSK	1	0	1	99	25.46	27.00

CA_42C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	22.89	24.00
42590	42788	QPSK	1	99	1	0	23.01	24.00
42990	42792	QPSK	1	0	1	99	22.97	24.00

CA_42C Ant 6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	22.59	24.00
42590	42788	QPSK	1	99	1	0	22.69	24.00
42990	42792	QPSK	1	0	1	99	22.56	24.00

CA_42C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	23.66	24.00
42590	42788	QPSK	1	99	1	0	23.74	24.00
42990	42792	QPSK	1	0	1	99	23.61	24.00

CA_42C Ant 8								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	23.24	24.00
42590	42788	QPSK	1	99	1	0	23.29	24.00
42990	42792	QPSK	1	0	1	99	23.17	24.00



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CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	12.18	13.50
132322	132415	QPSK	1	74	1	0	12.27	13.50
132597	132504	QPSK	1	0	1	24	12.20	13.50

CA_66C Ant 2								
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		
132072	132270	QPSK	1	99	1	0	12.25	13.50
132322	132520	QPSK	1	99	1	0	12.29	13.50
132572	132374	QPSK	1	0	1	99	12.24	13.50

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	14.42	15.50
40185	40383	QPSK	1	99	1	0	14.53	15.50
40620	40818	QPSK	1	99	1	0	14.56	15.50
41055	41253	QPSK	1	99	1	0	14.46	15.50
41490	41292	QPSK	1	0	1	99	14.43	15.50

CA_66B Ant 3								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	13.92	15.50
132322	132415	QPSK	1	74	1	0	14.02	15.50
132597	132504	QPSK	1	0	1	24	13.92	15.50

CA_66C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	13.99	15.50
132322	132520	QPSK	1	99	1	0	14.04	15.50
132572	132374	QPSK	1	0	1	99	14.03	15.50

CA_41C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	17.92	18.70
40185	40383	QPSK	1	99	1	0	17.91	18.70
40620	40818	QPSK	1	99	1	0	18.04	18.70
41055	41253	QPSK	1	99	1	0	18	18.70
41490	41292	QPSK	1	0	1	99	17.96	18.70

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.48	24.00
132322	132415	QPSK	1	74	1	0	22.53	24.00
132597	132504	QPSK	1	0	1	24	22.25	24.00

CA_66C Ant 0								
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		
132072	132270	QPSK	1	99	1	0	22.52	24.00
132322	132520	QPSK	1	99	1	0	22.57	24.00
132572	132374	QPSK	1	0	1	99	22.38	24.00

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.14	25.00
40185	40383	QPSK	1	99	1	0	23.21	25.00
40620	40818	QPSK	1	99	1	0	23.35	25.00
41055	41253	QPSK	1	99	1	0	23.3	25.00
41490	41292	QPSK	1	0	1	99	23.24	25.00

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.51	24.00
132322	132415	QPSK	1	74	1	0	22.64	24.00
132597	132504	QPSK	1	0	1	24	22.46	24.00

CA_66C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	22.58	24.00
132322	132520	QPSK	1	99	1	0	22.68	24.00
132572	132374	QPSK	1	0	1	99	22.59	24.00

CA_41C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.85	25.00
40185	40383	QPSK	1	99	1	0	22.79	25.00
40620	40818	QPSK	1	99	1	0	22.95	25.00
41055	41253	QPSK	1	99	1	0	22.88	25.00
41490	41292	QPSK	1	0	1	99	22.79	25.00



CA_41C HPUE Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	15.59	17.10		
40185	40383	QPSK	1	99	1	0	15.63	17.10		
40620	40818	QPSK	1	99	1	0	15.68	17.10		
41055	41253	QPSK	1	99	1	0	15.57	17.10		
41490	41292	QPSK	1	0	1	99	15.67	17.10		

CA_41C HPUE Ant 3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	19.24	20.30		
40185	40383	QPSK	1	99	1	0	19.24	20.30		
40620	40818	QPSK	1	99	1	0	19.27	20.30		
41055	41253	QPSK	1	99	1	0	19.23	20.30		
41490	41292	QPSK	1	0	1	99	19.21	20.30		

CA_41C HPUE Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	26.15	28.00		
40185	40383	QPSK	1	99	1	0	26.13	28.00		
40620	40818	QPSK	1	99	1	0	26.19	28.00		
41055	41253	QPSK	1	99	1	0	26.07	28.00		
41490	41292	QPSK	1	0	1	99	26.18	28.00		

CA_41C HPUE Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	25.93	27.00		
40185	40383	QPSK	1	99	1	0	26.02	27.00		
40620	40818	QPSK	1	99	1	0	26.03	27.00		
41055	41253	QPSK	1	99	1	0	25.94	27.00		
41490	41292	QPSK	1	0	1	99	25.86	27.00		

CA_42C Ant 4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	14.31	15.40		
42590	42788	QPSK	1	99	1	0	14.34	15.40		
42990	42792	QPSK	1	0	1	99	14.27	15.40		

CA_42C Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	15.09	16.50		
42590	42788	QPSK	1	99	1	0	15.1	16.50		
42990	42792	QPSK	1	0	1	99	15.03	16.50		

CA_42C Ant 3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	15.49	16.70		
42590	42788	QPSK	1	99	1	0	15.56	16.70		
42990	42792	QPSK	1	0	1	99	15.48	16.70		

CA_42C Ant 8										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	21.07	22.30		
42590	42788	QPSK	1	99	1	0	21.16	22.30		
42990	42792	QPSK	1	0	1	99	21.07	22.30		



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CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	14.86	16.20
132322	132415	QPSK	1	74	1	0	14.93	16.20
132597	132504	QPSK	1	0	1	24	14.90	16.20

CA_66C Ant 2								
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		
132072	132270	QPSK	1	99	1	0	14.88	16.20
132322	132520	QPSK	1	99	1	0	14.96	16.20
132572	132374	QPSK	1	0	1	99	14.89	16.20

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	17.83	18.90
40185	40383	QPSK	1	99	1	0	17.86	18.90
40620	40818	QPSK	1	99	1	0	17.89	18.90
41055	41253	QPSK	1	99	1	0	17.84	18.90
41490	41292	QPSK	1	0	1	99	17.81	18.90

CA_66B Ant 3								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	18.90	20.30
132322	132415	QPSK	1	74	1	0	18.96	20.30
132597	132504	QPSK	1	0	1	24	18.87	20.30

CA_66C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	18.91	20.30
132322	132520	QPSK	1	99	1	0	18.97	20.30
132572	132374	QPSK	1	0	1	99	18.90	20.30

CA_41C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.49	21.40
40185	40383	QPSK	1	99	1	0	20.37	21.40
40620	40818	QPSK	1	99	1	0	20.53	21.40
41055	41253	QPSK	1	99	1	0	20.48	21.40
41490	41292	QPSK	1	0	1	99	20.45	21.40

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	20.41	22.00
132322	132415	QPSK	1	74	1	0	20.46	22.00
132597	132504	QPSK	1	0	1	24	20.33	22.00

CA_66C Ant 0								
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		
132072	132270	QPSK	1	99	1	0	20.45	22.00
132322	132520	QPSK	1	99	1	0	20.52	22.00
132572	132374	QPSK	1	0	1	99	20.39	22.00

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.79	23.20
40185	40383	QPSK	1	99	1	0	21.86	23.20
40620	40818	QPSK	1	99	1	0	21.93	23.20
41055	41253	QPSK	1	99	1	0	21.86	23.20
41490	41292	QPSK	1	0	1	99	21.76	23.20

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	19.68	21.10
132322	132415	QPSK	1	74	1	0	19.71	21.10
132597	132504	QPSK	1	0	1	24	19.69	21.10

CA_66C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	19.71	21.10
132322	132520	QPSK	1	99	1	0	19.79	21.10
132572	132374	QPSK	1	0	1	99	19.77	21.10

CA_41C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.12	22.10
40185	40383	QPSK	1	99	1	0	21.14	22.10
40620	40818	QPSK	1	99	1	0	21.23	22.10
41055	41253	QPSK	1	99	1	0	21.19	22.10
41490	41292	QPSK	1	0	1	99	21.12	22.10



CA_41C HPUE Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	19.05	20.50		
40185	40383	QPSK	1	99	1	0	19.12	20.50		
40620	40818	QPSK	1	99	1	0	19.15	20.50		
41055	41253	QPSK	1	99	1	0	19.14	20.50		
41490	41292	QPSK	1	0	1	99	19.1	20.50		

CA_41C HPUE Ant 3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	21.65	23.00		
40185	40383	QPSK	1	99	1	0	21.72	23.00		
40620	40818	QPSK	1	99	1	0	21.79	23.00		
41055	41253	QPSK	1	99	1	0	21.69	23.00		
41490	41292	QPSK	1	0	1	99	21.68	23.00		

CA_41C HPUE Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	23.27	24.80		
40185	40383	QPSK	1	99	1	0	23.27	24.80		
40620	40818	QPSK	1	99	1	0	23.35	24.80		
41055	41253	QPSK	1	99	1	0	23.25	24.80		
41490	41292	QPSK	1	0	1	99	23.31	24.80		

CA_41C HPUE Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	22.4	23.70		
40185	40383	QPSK	1	99	1	0	22.47	23.70		
40620	40818	QPSK	1	99	1	0	22.55	23.70		
41055	41253	QPSK	1	99	1	0	22.51	23.70		
41490	41292	QPSK	1	0	1	99	22.43	23.70		

CA_42C Ant 4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	16.21	17.40		
42590	42788	QPSK	1	99	1	0	16.38	17.40		
42990	42792	QPSK	1	0	1	99	16.28	17.40		

CA_42C Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	22.03	23.40		
42590	42788	QPSK	1	99	1	0	22.05	23.40		
42990	42792	QPSK	1	0	1	99	22.02	23.40		

CA_42C Ant 3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	17.53	19.00		
42590	42788	QPSK	1	99	1	0	17.54	19.00		
42990	42792	QPSK	1	0	1	99	17.45	19.00		

CA_42C Ant 8										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	21.03	22.50		
42590	42788	QPSK	1	99	1	0	21.15	22.50		
42990	42792	QPSK	1	0	1	99	21.05	22.50		



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CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	9.77	11.30
132322	132415	QPSK	1	74	1	0	9.87	11.30
132597	132504	QPSK	1	0	1	24	9.82	11.30

CA_66C Ant 2								
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		
132072	132270	QPSK	1	99	1	0	9.86	11.30
132322	132520	QPSK	1	99	1	0	9.95	11.30
132572	132374	QPSK	1	0	1	99	9.84	11.30

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	16.36	17.30
40185	40383	QPSK	1	99	1	0	16.42	17.30
40620	40818	QPSK	1	99	1	0	16.43	17.30
41055	41253	QPSK	1	99	1	0	16.41	17.30
41490	41292	QPSK	1	0	1	99	16.4	17.30

CA_66B Ant 3								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	17.01	18.30
132322	132415	QPSK	1	74	1	0	17.08	18.30
132597	132504	QPSK	1	0	1	24	16.96	18.30

CA_66C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	17.06	18.30
132322	132520	QPSK	1	99	1	0	17.12	18.30
132572	132374	QPSK	1	0	1	99	17.04	18.30

CA_41C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	15.91	16.90
40185	40383	QPSK	1	99	1	0	15.94	16.90
40620	40818	QPSK	1	99	1	0	15.99	16.90
41055	41253	QPSK	1	99	1	0	15.85	16.90
41490	41292	QPSK	1	0	1	99	15.9	16.90

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	20.91	22.50
132322	132415	QPSK	1	74	1	0	20.94	22.50
132597	132504	QPSK	1	0	1	24	20.86	22.50

CA_66C Ant 0								
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		
132072	132270	QPSK	1	99	1	0	20.97	22.50
132322	132520	QPSK	1	99	1	0	21.03	22.50
132572	132374	QPSK	1	0	1	99	20.96	22.50

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.59	22.60
40185	40383	QPSK	1	99	1	0	21.67	22.60
40620	40818	QPSK	1	99	1	0	21.74	22.60
41055	41253	QPSK	1	99	1	0	21.69	22.60
41490	41292	QPSK	1	0	1	99	21.67	22.60

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	18.40	19.80
132322	132415	QPSK	1	74	1	0	18.48	19.80
132597	132504	QPSK	1	0	1	24	18.45	19.80

CA_66C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	18.46	19.80
132322	132520	QPSK	1	99	1	0	18.54	19.80
132572	132374	QPSK	1	0	1	99	18.51	19.80

CA_41C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.52	20.90
40185	40383	QPSK	1	99	1	0	19.53	20.90
40620	40818	QPSK	1	99	1	0	19.63	20.90
41055	41253	QPSK	1	99	1	0	19.59	20.90
41490	41292	QPSK	1	0	1	99	19.61	20.90



CA_41C HPUE Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	17.64	18.90		
40185	40383	QPSK	1	99	1	0	17.71	18.90		
40620	40818	QPSK	1	99	1	0	17.76	18.90		
41055	41253	QPSK	1	99	1	0	17.69	18.90		
41490	41292	QPSK	1	0	1	99	17.69	18.90		

CA_41C HPUE Ant 3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	17.14	18.50		
40185	40383	QPSK	1	99	1	0	16.99	18.50		
40620	40818	QPSK	1	99	1	0	17.15	18.50		
41055	41253	QPSK	1	99	1	0	17.1	18.50		
41490	41292	QPSK	1	0	1	99	17.02	18.50		

CA_41C HPUE Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	22.84	24.20		
40185	40383	QPSK	1	99	1	0	22.91	24.20		
40620	40818	QPSK	1	99	1	0	23.01	24.20		
41055	41253	QPSK	1	99	1	0	22.93	24.20		
41490	41292	QPSK	1	0	1	99	22.88	24.20		

CA_41C HPUE Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	20.84	22.50		
40185	40383	QPSK	1	99	1	0	20.83	22.50		
40620	40818	QPSK	1	99	1	0	20.9	22.50		
41055	41253	QPSK	1	99	1	0	20.83	22.50		
41490	41292	QPSK	1	0	1	99	20.8	22.50		

CA_42C Ant 4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	14.1	15.30		
42590	42788	QPSK	1	99	1	0	14.17	15.30		
42990	42792	QPSK	1	0	1	99	14.11	15.30		

CA_42C Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	15.72	16.90		
42590	42788	QPSK	1	99	1	0	15.81	16.90		
42990	42792	QPSK	1	0	1	99	15.74	16.90		

CA_42C Ant 3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	13.35	14.50		
42590	42788	QPSK	1	99	1	0	13.36	14.50		
42990	42792	QPSK	1	0	1	99	13.27	14.50		

CA_42C Ant 8										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	20.42	21.60		
42590	42788	QPSK	1	99	1	0	20.47	21.60		
42990	42792	QPSK	1	0	1	99	20.43	21.60		



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CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	18.48	19.70
132322	132415	QPSK	1	74	1	0	18.58	19.70
132597	132504	QPSK	1	0	1	24	18.51	19.70

CA_66C Ant 2								
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		
132072	132270	QPSK	1	99	1	0	18.57	19.70
132322	132520	QPSK	1	99	1	0	18.61	19.70
132572	132374	QPSK	1	0	1	99	18.49	19.70

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.36	23.00
40185	40383	QPSK	1	99	1	0	21.42	23.00
40620	40818	QPSK	1	99	1	0	21.52	23.00
41055	41253	QPSK	1	99	1	0	21.47	23.00
41490	41292	QPSK	1	0	1	99	21.44	23.00

CA_66B Ant 3								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	18.97	20.60
132322	132415	QPSK	1	74	1	0	19.01	20.60
132597	132504	QPSK	1	0	1	24	18.99	20.60

CA_66C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	18.99	20.60
132322	132520	QPSK	1	99	1	0	19.07	20.60
132572	132374	QPSK	1	0	1	99	19.00	20.60

CA_41C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.31	22.20
40185	40383	QPSK	1	99	1	0	20.38	22.20
40620	40818	QPSK	1	99	1	0	20.4	22.20
41055	41253	QPSK	1	99	1	0	20.39	22.20
41490	41292	QPSK	1	0	1	99	20.3	22.20

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	21.39	23.90
132322	132415	QPSK	1	74	1	0	22.41	23.90
132597	132504	QPSK	1	0	1	24	22.37	23.90

CA_66C Ant 0								
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		
132072	132270	QPSK	1	99	1	0	21.44	23.90
132322	132520	QPSK	1	99	1	0	22.48	23.90
132572	132374	QPSK	1	0	1	99	22.45	23.90

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.14	25.00
40185	40383	QPSK	1	99	1	0	23.21	25.00
40620	40818	QPSK	1	99	1	0	23.35	25.00
41055	41253	QPSK	1	99	1	0	23.3	25.00
41490	41292	QPSK	1	0	1	99	23.24	25.00

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	21.68	23.00
132322	132415	QPSK	1	74	1	0	21.77	23.00
132597	132504	QPSK	1	0	1	24	21.76	23.00

CA_66C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	21.73	23.00
132322	132520	QPSK	1	99	1	0	21.83	23.00
132572	132374	QPSK	1	0	1	99	21.81	23.00

CA_41C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.85	25.00
40185	40383	QPSK	1	99	1	0	22.79	25.00
40620	40818	QPSK	1	99	1	0	22.95	25.00
41055	41253	QPSK	1	99	1	0	22.88	25.00
41490	41292	QPSK	1	0	1	99	22.79	25.00



CA_41C HPUE Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	23.67	24.60		
40185	40383	QPSK	1	99	1	0	23.73	24.60		
40620	40818	QPSK	1	99	1	0	23.76	24.60		
41055	41253	QPSK	1	99	1	0	23.74	24.60		
41490	41292	QPSK	1	0	1	99	23.66	24.60		

CA_41C HPUE Ant 3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	22.55	23.80		
40185	40383	QPSK	1	99	1	0	22.6	23.80		
40620	40818	QPSK	1	99	1	0	22.65	23.80		
41055	41253	QPSK	1	99	1	0	22.63	23.80		
41490	41292	QPSK	1	0	1	99	22.63	23.80		

CA_41C HPUE Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	26.15	28.00		
40185	40383	QPSK	1	99	1	0	26.13	28.00		
40620	40818	QPSK	1	99	1	0	26.19	28.00		
41055	41253	QPSK	1	99	1	0	26.07	28.00		
41490	41292	QPSK	1	0	1	99	26.18	28.00		

CA_41C HPUE Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	25.93	27.00		
40185	40383	QPSK	1	99	1	0	26.02	27.00		
40620	40818	QPSK	1	99	1	0	26.03	27.00		
41055	41253	QPSK	1	99	1	0	25.94	27.00		
41490	41292	QPSK	1	0	1	99	25.86	27.00		

CA_42C Ant 4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	17.99	19.30		
42590	42788	QPSK	1	99	1	0	18.13	19.30		
42990	42792	QPSK	1	0	1	99	18.08	19.30		

CA_42C Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	22.59	23.70		
42590	42788	QPSK	1	99	1	0	22.66	23.70		
42990	42792	QPSK	1	0	1	99	22.6	23.70		

CA_42C Ant 3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	20.76	21.90		
42590	42788	QPSK	1	99	1	0	20.78	21.90		
42990	42792	QPSK	1	0	1	99	20.74	21.90		

CA_42C Ant 8										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	23.24	24.00		
42590	42788	QPSK	1	99	1	0	23.29	24.00		
42990	42792	QPSK	1	0	1	99	23.17	24.00		



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CA_66B Ant 2										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	17.90	19.20		
132322	132415	QPSK	1	74	1	0	17.99	19.20		
132597	132504	QPSK	1	0	1	24	17.91	19.20		

CA_66C Ant 2										
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				
132072	132270	QPSK	1	99	1	0	17.92	19.20		
132322	132520	QPSK	1	99	1	0	18.04	19.20		
132572	132374	QPSK	1	0	1	99	17.89	19.20		

CA_41C Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	19.37	20.80		
40185	40383	QPSK	1	99	1	0	19.33	20.80		
40620	40818	QPSK	1	99	1	0	19.38	20.80		
41055	41253	QPSK	1	99	1	0	19.34	20.80		
41490	41292	QPSK	1	0	1	99	19.35	20.80		

CA_66B Ant 3										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	22.67	24.00		
132322	132415	QPSK	1	74	1	0	22.78	24.00		
132597	132504	QPSK	1	0	1	24	22.70	24.00		

CA_66C Ant 3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	22.89	24.00		
132322	132520	QPSK	1	99	1	0	22.83	24.00		
132572	132374	QPSK	1	0	1	99	22.75	24.00		

CA_41C Ant 3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	21.9	22.90		
40185	40383	QPSK	1	99	1	0	21.86	22.90		
40620	40818	QPSK	1	99	1	0	21.92	22.90		
41055	41253	QPSK	1	99	1	0	21.85	22.90		
41490	41292	QPSK	1	0	1	99	21.81	22.90		

CA_66B Ant 0										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	19.48	21.30		
132322	132415	QPSK	1	74	1	0	19.58	21.30		
132597	132504	QPSK	1	0	1	24	19.57	21.30		

CA_66C Ant 0										
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				
132072	132270	QPSK	1	99	1	0	19.55	21.30		
132322	132520	QPSK	1	99	1	0	19.66	21.30		
132572	132374	QPSK	1	0	1	99	19.56	21.30		

CA_41C Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	22.43	23.90		
40185	40383	QPSK	1	99	1	0	22.44	23.90		
40620	40818	QPSK	1	99	1	0	22.52	23.90		
41055	41253	QPSK	1	99	1	0	22.45	23.90		
41490	41292	QPSK	1	0	1	99	22.47	23.90		

CA_66B Ant 1										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	18.32	19.90		
132322	132415	QPSK	1	74	1	0	18.43	19.90		
132597	132504	QPSK	1	0	1	24	18.34	19.90		

CA_66C Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	18.44	19.90		
132322	132520	QPSK	1	99	1	0	18.48	19.90		
132572	132374	QPSK	1	0	1	99	18.45	19.90		

CA_41C Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	21.99	23.60		
40185	40383	QPSK	1	99	1	0	22	23.60		
40620	40818	QPSK	1	99	1	0	22.1	23.60		
41055	41253	QPSK	1	99	1	0	22.06	23.60		
41490	41292	QPSK	1	0	1	99	22.07	23.60		



CA_41C HPUE Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	20.62	22.40		
40185	40383	QPSK	1	99	1	0	20.63	22.40		
40620	40818	QPSK	1	99	1	0	20.7	22.40		
41055	41253	QPSK	1	99	1	0	20.68	22.40		
41490	41292	QPSK	1	0	1	99	20.64	22.40		

CA_41C HPUE Ant 3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	23.11	24.50		
40185	40383	QPSK	1	99	1	0	23	24.50		
40620	40818	QPSK	1	99	1	0	23.18	24.50		
41055	41253	QPSK	1	99	1	0	23.03	24.50		
41490	41292	QPSK	1	0	1	99	23.13	24.50		

CA_41C HPUE Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	23.68	25.50		
40185	40383	QPSK	1	99	1	0	23.71	25.50		
40620	40818	QPSK	1	99	1	0	23.75	25.50		
41055	41253	QPSK	1	99	1	0	23.74	25.50		
41490	41292	QPSK	1	0	1	99	23.74	25.50		

CA_41C HPUE Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	23.68	25.20		
40185	40383	QPSK	1	99	1	0	23.66	25.20		
40620	40818	QPSK	1	99	1	0	23.73	25.20		
41055	41253	QPSK	1	99	1	0	23.63	25.20		
41490	41292	QPSK	1	0	1	99	23.6	25.20		

CA_42C Ant 4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	20.57	21.80		
42590	42788	QPSK	1	99	1	0	20.63	21.80		
42990	42792	QPSK	1	0	1	99	20.57	21.80		

CA_42C Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	19.21	20.70		
42590	42788	QPSK	1	99	1	0	19.28	20.70		
42990	42792	QPSK	1	0	1	99	19.27	20.70		

CA_42C Ant 3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	18.84	20.40		
42590	42788	QPSK	1	99	1	0	18.95	20.40		
42990	42792	QPSK	1	0	1	99	18.8	20.40		

CA_42C Ant 8										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	23.24	24.00		
42590	42788	QPSK	1	99	1	0	23.29	24.00		
42990	42792	QPSK	1	0	1	99	23.17	24.00		



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CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	12.31	13.80
132322	132415	QPSK	1	74	1	0	12.37	13.80
132597	132504	QPSK	1	0	1	24	12.25	13.80

CA_66C Ant 2								
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		
132072	132270	QPSK	1	99	1	0	12.40	13.80
132322	132520	QPSK	1	99	1	0	12.41	13.80
132572	132374	QPSK	1	0	1	99	12.38	13.80

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	15.01	16.20
40185	40383	QPSK	1	99	1	0	15.02	16.20
40620	40818	QPSK	1	99	1	0	15.06	16.20
41055	41253	QPSK	1	99	1	0	15.02	16.20
41490	41292	QPSK	1	0	1	99	14.93	16.20

CA_66B Ant 3								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	19.55	21.20
132322	132415	QPSK	1	74	1	0	19.59	21.20
132597	132504	QPSK	1	0	1	24	19.56	21.20

CA_66C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	19.57	21.20
132322	132520	QPSK	1	99	1	0	19.61	21.20
132572	132374	QPSK	1	0	1	99	19.55	21.20

CA_41C Ant 3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	17.33	18.80
40185	40383	QPSK	1	99	1	0	17.29	18.80
40620	40818	QPSK	1	99	1	0	17.44	18.80
41055	41253	QPSK	1	99	1	0	17.38	18.80
41490	41292	QPSK	1	0	1	99	17.33	18.80

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	16.07	17.30
132322	132415	QPSK	1	74	1	0	16.15	17.30
132597	132504	QPSK	1	0	1	24	16.10	17.30

CA_66C Ant 0								
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		
132072	132270	QPSK	1	99	1	0	16.19	17.30
132322	132520	QPSK	1	99	1	0	16.21	17.30
132572	132374	QPSK	1	0	1	99	16.07	17.30

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.14	22.80
40185	40383	QPSK	1	99	1	0	22.04	22.80
40620	40818	QPSK	1	99	1	0	22.17	22.80
41055	41253	QPSK	1	99	1	0	22.07	22.80
41490	41292	QPSK	1	0	1	99	22.02	22.80

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	16.32	17.80
132322	132415	QPSK	1	74	1	0	16.33	17.80
132597	132504	QPSK	1	0	1	24	16.26	17.80

CA_66C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	16.30	17.80
132322	132520	QPSK	1	99	1	0	16.43	17.80
132572	132374	QPSK	1	0	1	99	16.38	17.80

CA_41C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.63	20.40
40185	40383	QPSK	1	99	1	0	18.6	20.40
40620	40818	QPSK	1	99	1	0	18.68	20.40
41055	41253	QPSK	1	99	1	0	18.66	20.40
41490	41292	QPSK	1	0	1	99	18.62	20.40



CA_41C HPUE Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	16.08	17.80		
40185	40383	QPSK	1	99	1	0	16.13	17.80		
40620	40818	QPSK	1	99	1	0	16.19	17.80		
41055	41253	QPSK	1	99	1	0	16.17	17.80		
41490	41292	QPSK	1	0	1	99	16.09	17.80		

CA_41C HPUE Ant 3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	18.57	20.40		
40185	40383	QPSK	1	99	1	0	18.58	20.40		
40620	40818	QPSK	1	99	1	0	18.64	20.40		
41055	41253	QPSK	1	99	1	0	18.54	20.40		
41490	41292	QPSK	1	0	1	99	18.54	20.40		

CA_41C HPUE Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	23.29	24.40		
40185	40383	QPSK	1	99	1	0	23.31	24.40		
40620	40818	QPSK	1	99	1	0	23.36	24.40		
41055	41253	QPSK	1	99	1	0	23.27	24.40		
41490	41292	QPSK	1	0	1	99	23.3	24.40		

CA_41C HPUE Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	19.99	22.00		
40185	40383	QPSK	1	99	1	0	19.88	22.00		
40620	40818	QPSK	1	99	1	0	20.06	22.00		
41055	41253	QPSK	1	99	1	0	20.01	22.00		
41490	41292	QPSK	1	0	1	99	19.96	22.00		

CA_42C Ant 4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	13.05	14.70		
42590	42788	QPSK	1	99	1	0	13.06	14.70		
42990	42792	QPSK	1	0	1	99	13.02	14.70		

CA_42C Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	16.32	17.50		
42590	42788	QPSK	1	99	1	0	16.37	17.50		
42990	42792	QPSK	1	0	1	99	16.25	17.50		

CA_42C Ant 3										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	17.76	19.40		
42590	42788	QPSK	1	99	1	0	17.84	19.40		
42990	42792	QPSK	1	0	1	99	17.73	19.40		

CA_42C Ant 8										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	99	1	0	19.38	21.00		
42590	42788	QPSK	1	99	1	0	19.46	21.00		
42990	42792	QPSK	1	0	1	99	19.42	21.00		



DL CA Power

2CA DL

CA List	PCC										SCC				Power	
	LTE Band	BW Ant	BW (MHz)	UL Freq (MHz)	UL Channel	Mod.	UL# RB Offset	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	With CA Tx Power (dBm)	Without CA Tx Power (dBm)
	CA_41A-42A	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.42
	Band 42	Ant 4	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.01	23.11
	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.98	23.10
	Band 42	Ant 6	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.66	22.60
	Band 41	Ant 2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.47	23.60
	Band 42	Ant 3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.62	23.85
	Band 41	Ant 3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.94	23.06
	Band 42	Ant 8	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.43	23.47
CA_66A-66A	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	EM	2197.5	67311	4x4MIMO	22.54	22.65
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	EM	2197.5	67311	4x4MIMO	22.61	22.74
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	EM	2197.5	67311	4x4MIMO	22.83	22.88
	Band 66	Ant 3	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	EM	2197.5	67311	4x4MIMO	22.75	22.88
CA_66B	Band 66	Ant 0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	EM	2164.3	66979	4x4MIMO	22.48	22.58
	Band 66	Ant 1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	EM	2164.3	66979	4x4MIMO	22.62	22.65
	Band 66	Ant 2	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	EM	2164.3	66979	4x4MIMO	22.82	22.86
	Band 66	Ant 3	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	EM	2164.3	66979	4x4MIMO	22.75	22.85
CA_66C	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	22.52	22.65
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	22.68	22.74
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	22.78	22.88
	Band 66	Ant 3	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	22.78	22.88



3CA DL

3CA List	PCC										SCC1				SCC2				Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	DL	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	Tx Power (dBm)	Tx Power (dBm)
	Band	Ant	(MHz)	Freq. (MHz)	Channel																
CA_41A-42C	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	23.32	23.48
	Band 42	Ant 4	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.01	23.11
	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	23.01	23.10
	Band 42	Ant 6	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.74	22.80
	Band 41	Ant 2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	23.51	23.60
	Band 42	Ant 3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.76	23.85
	Band 41	Ant 3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	22.99	23.08
	Band 42	Ant 8	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.42	23.47
CA_41C-42A	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.35	23.48
	Band 42	Ant 4	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	23.07	23.11
	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.07	23.10
	Band 42	Ant 6	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	22.99	23.00
	Band 41	Ant 2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.53	23.60
	Band 42	Ant 3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	23.77	23.85
	Band 41	Ant 3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.97	23.08
	Band 42	Ant 8	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	23.44	23.47
CA_42D	Band 42	Ant 4	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 42	20M	3539.6	42986	4x4MIMO	23.04	23.11
	Band 42	Ant 6	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 42	20M	3539.6	42986	4x4MIMO	22.88	22.80
	Band 42	Ant 3	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 42	20M	3539.6	42986	4x4MIMO	23.74	23.85
	Band 42	Ant 8	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 42	20M	3539.6	42986	4x4MIMO	23.42	23.47



Full&Default Power Mode

n5 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	23.13	23.18	23.15	24.0	0.0	
20	QPSK	50	28	23.05	23.13	23.08	24.0	0.0	
20	QPSK	100	0	22.18	22.25	22.20	23.0	1.0	

n66 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	22.80	22.82	22.78	24.0	0.0	
40	QPSK	108	54	22.70	22.71	22.67	24.0	0.0	
40	QPSK	216	0	21.74	21.79	21.72	23.0	1.0	

n41 Ant 0									
BW [MHz]	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	QPSK	1	1	21.76	21.84	21.78	23.0	0.0	
100	QPSK	135	69	21.68	21.74	21.59	23.0	0.0	
100	QPSK	270	0	21.61	21.69	21.62	23.0	0.0	

n66 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	22.89	22.94	22.92	24.0	0.0	
40	QPSK	108	54	22.85	22.89	22.84	24.0	0.0	
40	QPSK	216	0	21.90	21.93	21.88	23.0	0.0	

n5 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	22.88	22.94	22.91	24.0	0.0	
20	QPSK	50	28	22.76	22.80	22.78	24.0	0.0	
20	QPSK	100	0	21.87	21.91	21.90	23.0	0.0	

n41 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	QPSK	1	1	21.69	21.80	21.67	23.0	0.0	
100	QPSK	135	69	21.60	21.70	21.57	23.0	0.0	
100	QPSK	270	0	21.45	21.61	21.49	23.0	0.0	

n66 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	22.85	23.03	22.94	24.0	0.0	
40	QPSK	108	54	22.71	22.85	22.78	24.0	0.0	
40	QPSK	216	0	21.88	21.92	21.86	23.0	1.0	

n41 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	QPSK	1	1	23.28	23.29	23.22	24.0	0.0	
100	QPSK	135	69	23.04	23.25	23.17	24.0	0.0	
100	QPSK	270	0	23.14	23.15	23.07	24.0	0.0	

n66 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	23.05	23.11	23.10	24.0	0.0	
40	QPSK	108	54	22.80	22.85	22.82	24.0	0.0	
40	QPSK	216	0	21.86	21.94	21.90	23.0	1.0	

n41 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	QPSK	1	1	21.14	21.24	21.19	22.0	0.0	
100	QPSK	135	69	21.10	21.15	21.11	22.0	0.0	
100	QPSK	270	0	21.09	21.13	21.12	22.0	0.0	



Part270 n77 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	23.02	23.31	23.05			
100	PI/2 BPSK	1	137	22.95	23.26	23.00	24.0	0.0	
100	PI/2 BPSK	1	271	23.05	23.32	23.06			
100	PI/2 BPSK	135	0	23.01	23.27	23.08	24.0	0.0	
100	PI/2 BPSK	135	69	22.98	23.35	23.00	24.0	0.0	
100	PI/2 BPSK	135	138	23.10	23.33	23.02			
100	PI/2 BPSK	270	0	22.91	23.19	23.10	24.0	0.0	
100	QPSK	1	1	23.09	23.39	23.12			
100	QPSK	1	137	23.00	23.33	23.04	24.0	0.0	
100	QPSK	1	271	23.05	23.36	23.04			
100	QPSK	135	0	23.01	23.33	23.12	24.0	0.0	
100	QPSK	135	69	23.06	23.35	23.07	24.0	0.0	
100	QPSK	135	138	23.09	23.31	23.09			
100	QPSK	270	0	22.98	23.26	23.09	24.0	0.0	
100	16QAM	1	1	23.11	23.16	23.10	24.0	0.0	
100	64QAM	1	1	23.10	23.18	23.12	24.0	0.0	
100	256QAM	1	1	22.12	22.30	22.24	23.0	1.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	24.0	0.0	
90	QPSK	1	1	23.02	23.32	23.07			
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	24.0	0.0	
80	QPSK	1	1	23.01	23.37	23.05	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945	24.0	0.0	
70	QPSK	1	1	23.10	23.38	23.04	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	24.0	0.0	
60	QPSK	1	1	23.01	23.36	23.09	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	24.0	0.0	
50	QPSK	1	1	23.01	23.36	23.07	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	24.0	0.0	
40	QPSK	1	1	23.07	23.32	23.13	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	24.0	0.0	
30	QPSK	1	1	23.04	23.37	23.07	24.0	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5	24.0	0.0	
25	QPSK	1	1	23.06	23.33	23.09	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	24.0	0.0	
20	QPSK	1	1	23.02	23.37	23.14	24.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51	24.0	0.0	
15	QPSK	1	1	23.08	23.37	23.12	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975	24.0	0.0	
10	QPSK	1	1	23.06	23.34	23.06	24.0	0.0	

Part270 n78 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		23.18				
100	PI/2 BPSK	1	137		23.14		24.0	0.0	
100	PI/2 BPSK	1	271		23.10				
100	PI/2 BPSK	135	0		23.03		24.0	0.0	
100	PI/2 BPSK	135	69		23.05		24.0	0.0	
100	PI/2 BPSK	135	138		23.03		24.0	0.0	
100	PI/2 BPSK	270	0		23.12				
100	QPSK	1	1		23.22				
100	QPSK	1	137		23.16		24.0	0.0	
100	QPSK	1	271		23.16				
100	QPSK	135	0		23.06		24.0	0.0	
100	QPSK	135	69		23.12		24.0	0.0	
100	QPSK	135	138		23.09		24.0	0.0	
100	QPSK	270	0		23.17		24.0	0.0	
100	16QAM	1	1		22.52		24.0	0.0	
100	64QAM	1	1		22.54		24.0	0.0	
100	256QAM	1	1		21.67		23.0	1.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	24.0	0.0	
90	QPSK	1	1	23.12	23.17	23.11			
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	24.0	0.0	
80	QPSK	1	1	23.08	23.15	23.13	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	1	23.11	23.20	23.13	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	1	23.04	23.18	23.03	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	1	23.15	23.13	23.14	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	1	23.04	23.13	23.09	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	1	23.05	23.11	23.08	24.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5	24.0	0.0	
25	QPSK	1	1	23.12	23.13	23.11	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	1	23.08	23.14	23.09	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	1	23.09	23.18	23.03	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	1	23.11	23.15	23.06	24.0	0.0	



Part270 n77 Ant 6									
BW [MHz]	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	20.69	20.79	20.48			
100	PI/2 BPSK	1	137	20.61	20.83	20.44	22.0	0.0	
100	PI/2 BPSK	1	271	20.63	20.82	20.51			
100	PI/2 BPSK	135	0	20.50	20.64	20.30	22.0	0.0	
100	PI/2 BPSK	135	69	20.53	20.64	20.51	22.0	0.0	
100	PI/2 BPSK	135	138	20.48	20.60	20.42	22.0	0.0	
100	PI/2 BPSK	270	0	20.54	20.62	20.51			
100	QPSK	1	1	20.75	20.89	20.57			
100	QPSK	1	137	20.72	20.87	20.53	22.0	0.0	
100	QPSK	1	271	20.75	20.86	20.52			
100	QPSK	135	0	20.61	20.70	20.42	22.0	0.0	
100	QPSK	135	69	20.63	20.74	20.54	22.0	0.0	
100	QPSK	135	138	20.58	20.71	20.46	22.0	0.0	
100	QPSK	270	0	20.57	20.67	20.53			
100	16QAM	1	1	20.38	20.42	20.41	22.0	0.0	
100	64QAM	1	1	20.41	20.43	20.40	22.0	0.0	
100	256QAM	1	1	19.46	19.54	19.51	20.5	1.5	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.64	20.77	20.49	22.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.72	20.79	20.54	22.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.70	20.77	20.52	22.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.71	20.80	20.45	22.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.61	20.81	20.53	22.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.66	20.79	20.51	22.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	20.68	20.79	20.48	22.0	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	20.61	20.83	20.51	22.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.61	20.78	20.45	22.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.62	20.79	20.45	22.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.66	20.85	20.53	22.0	0.0	

Part270 n78 Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		20.73				
100	PI/2 BPSK	1	137		20.80		22.0	0.0	
100	PI/2 BPSK	1	271		20.74				
100	PI/2 BPSK	135	0		20.53		22.0	0.0	
100	PI/2 BPSK	135	69		20.52		22.0	0.0	
100	PI/2 BPSK	135	138		20.52		22.0	0.0	
100	PI/2 BPSK	270	0		20.53				
100	QPSK	1	1		20.83				
100	QPSK	1	137		20.82		22.0	0.0	
100	QPSK	1	271		20.74				
100	QPSK	135	0		20.57		22.0	0.0	
100	QPSK	135	69		20.66		22.0	0.0	
100	QPSK	135	138		20.80		22.0	0.0	
100	QPSK	270	0		20.63				
100	16QAM	1	1		20.38		22.0	0.0	
100	64QAM	1	1		20.29		22.0	0.0	
100	256QAM	1	1		19.52		20.5	1.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	20.56	20.70	20.37	22.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	20.61	20.71	20.47	22.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	20.52	20.87	20.47	22.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	20.51	20.83	20.40	22.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	20.52	20.75	20.37	22.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	20.52	20.68	20.37	22.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	20.59	20.65	20.37	22.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	20.55	20.72	20.48	22.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	20.55	20.71	20.37	22.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	20.57	20.88	20.43	22.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	20.51	20.71	20.44	22.0	0.0	



Part270 n77 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	23.27	23.29	23.17			
100	PI/2 BPSK	1	137	23.20	23.23	23.20	24.0	0.0	
100	PI/2 BPSK	1	271	23.14	23.20	23.06			
100	PI/2 BPSK	135	0	23.11	23.18	23.15	24.0	0.0	
100	PI/2 BPSK	135	69	23.11	23.27	23.14	24.0	0.0	
100	PI/2 BPSK	135	138	23.00	23.14	23.07			
100	PI/2 BPSK	270	0	23.15	23.19	23.03	24.0	0.0	
100	QPSK	1	1	23.36	23.43	23.31			
100	QPSK	1	137	23.21	23.28	23.22	24.0	0.0	
100	QPSK	1	271	23.13	23.25	23.23			
100	QPSK	135	0	23.22	23.26	23.23	24.0	0.0	
100	QPSK	135	69	23.23	23.33	23.23	24.0	0.0	
100	QPSK	135	138	23.19	23.23	23.18			
100	QPSK	270	0	23.22	23.30	23.26	24.0	0.0	
100	16QAM	1	1	23.11	23.22	23.20	24.0	0.0	
100	64QAM	1	1	23.09	23.11	23.14	24.0	0.0	
100	256QAM	1	1	21.75	21.79	21.75	22.5	1.5	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	24.0	0.0	
90	QPSK	1	1	23.12	23.22	23.21	24.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	24.0	0.0	
80	QPSK	1	1	23.19	23.22	23.22	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945	24.0	0.0	
70	QPSK	1	1	23.17	23.18	23.20	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	24.0	0.0	
60	QPSK	1	1	23.19	23.25	23.12	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	24.0	0.0	
50	QPSK	1	1	23.10	23.24	23.14	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	24.0	0.0	
40	QPSK	1	1	23.18	23.25	23.18	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	24.0	0.0	
30	QPSK	1	1	23.14	23.16	23.20	24.0	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5	24.0	0.0	
25	QPSK	1	1	23.12	23.23	23.14	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	24.0	0.0	
20	QPSK	1	1	23.09	23.19	23.21	24.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51	24.0	0.0	
15	QPSK	1	1	23.17	23.19	23.23	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975	24.0	0.0	
10	QPSK	1	1	23.13	23.19	23.15	24.0	0.0	

Part270 n78 Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		23.23				
100	PI/2 BPSK	1	137		23.12		24.0	0.0	
100	PI/2 BPSK	1	271		23.16				
100	PI/2 BPSK	135	0		23.09		24.0	0.0	
100	PI/2 BPSK	135	69		23.22		24.0	0.0	
100	PI/2 BPSK	135	138		23.02				
100	PI/2 BPSK	270	0		23.12		24.0	0.0	
100	QPSK	1	1		23.29				
100	QPSK	1	137		23.20		24.0	0.0	
100	QPSK	1	271		23.19				
100	QPSK	135	0		23.20		24.0	0.0	
100	QPSK	135	69		23.22		24.0	0.0	
100	QPSK	135	138		23.13				
100	QPSK	270	0		23.20		24.0	0.0	
100	16QAM	1	1		23.18		24.0	0.0	
100	64QAM	1	1		23.07		24.0	0.0	
100	256QAM	1	1		21.72		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	1	23.00	23.15	23.17	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	1	23.07	23.11	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	1	23.07	23.11	23.12	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	1	23.07	23.10	23.15	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	1	23.07	23.08	23.09	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	1	23.09	23.19	23.18	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	1	22.99	23.13	23.08	24.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5	24.0	0.0	
25	QPSK	1	1	23.07	23.11	23.09	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	1	23.01	23.11	23.13	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	1	23.01	23.10	23.10	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	1	23.02	23.20	23.12	24.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	20.43	20.65	20.42			
100	PI/2 BPSK	1	137	20.47	20.60	20.37	22.0	0.0	
100	PI/2 BPSK	1	271	20.40	20.59	20.37			
100	PI/2 BPSK	135	0	20.47	20.62	20.34	22.0	0.0	
100	PI/2 BPSK	135	69	20.45	20.55	20.30	22.0	0.0	
100	PI/2 BPSK	135	138	20.46	20.56	20.37			
100	PI/2 BPSK	270	0	20.34	20.45	20.25	22.0	0.0	
100	QPSK	1	1	20.50	20.68	20.41			
100	QPSK	1	137	20.47	20.64	20.38	22.0	0.0	
100	QPSK	1	271	20.46	20.64	20.42			
100	QPSK	135	0	20.47	20.61	20.36	22.0	0.0	
100	QPSK	135	69	20.49	20.62	20.38	22.0	0.0	
100	QPSK	135	138	20.45	20.56	20.38			
100	QPSK	270	0	20.37	20.53	20.29	22.0	0.0	
100	16QAM	1	1	20.30	20.34	20.28	22.0	0.0	
100	64QAM	1	1	20.30	20.37	20.32	22.0	0.0	
100	256QAM	1	1	19.41	19.48	19.46	20.5	1.5	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.51	20.62	20.33	22.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.48	20.64	20.35	22.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3935			
70	QPSK	1	1	20.47	20.66	20.34	22.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.46	20.64	20.42	22.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.49	20.62	20.44	22.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.52	20.62	20.41	22.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	20.42	20.62	20.42	22.0	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	20.52	20.61	20.42	22.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.43	20.62	20.32	22.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.45	20.61	20.43	22.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.46	20.60	20.40	22.0	0.0	

Part270 n78 Ant 8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		20.54				
100	PI/2 BPSK	1	137		20.48		22.0	0.0	
100	PI/2 BPSK	1	271		20.53				
100	PI/2 BPSK	135	0		20.52		22.0	0.0	
100	PI/2 BPSK	135	69		20.52		22.0	0.0	
100	PI/2 BPSK	135	138		20.43				
100	PI/2 BPSK	270	0		20.36		22.0	0.0	
100	QPSK	1	1		20.59				
100	QPSK	1	137		20.55		22.0	0.0	
100	QPSK	1	271		20.53				
100	QPSK	135	0		20.56		22.0	0.0	
100	QPSK	135	69		20.57		22.0	0.0	
100	QPSK	135	138		20.49				
100	QPSK	270	0		20.50		22.0	0.0	
100	16QAM	1	1		20.21		22.0	0.0	
100	64QAM	1	1		20.31		22.0	0.0	
100	256QAM	1	1		19.44		20.5	1.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	20.41	20.58	20.20	22.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	20.45	20.50	20.29	22.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	20.47	20.54	20.26	22.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	20.41	20.48	20.24	22.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	20.42	20.51	20.22	22.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	20.42	20.54	20.30	22.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	20.44	20.51	20.21	22.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	20.38	20.57	20.21	22.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	20.41	20.51	20.25	22.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	20.40	20.53	20.25	22.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	20.44	20.55	20.28	22.0	0.0	



Reduced Power Mode for ECI2

n5 Ant 0 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				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	23.13	23.18	23.15	24.0	0.0	
20	QPSK	50	28	23.05	23.13	23.08	24.0	0.0	
20	QPSK	100	0	22.18	22.25	22.20	23.0	1.0	

n66 Ant 0 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	22.80	22.82	22.78	24.0	0.0	
40	QPSK	108	54	22.70	22.71	22.67	24.0	0.0	
40	QPSK	216	0	21.74	21.79	21.72	23.0	1.0	

n41 Ant 0 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	QPSK	1	1	21.76	21.84	21.78	23.0	0.0	
100	QPSK	135	69	21.68	21.74	21.59	23.0	0.0	
100	QPSK	270	0	21.61	21.69	21.62	23.0	0.0	

n5 Ant 1 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				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	22.88	22.94	22.91	24.0	0.0	
20	QPSK	50	28	22.76	22.80	22.78	24.0	0.0	
20	QPSK	100	0	21.87	21.91	21.90	23.0	0.0	

n66 Ant 1 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	22.89	22.94	22.92	24.0	0.0	
40	QPSK	108	54	22.85	22.89	22.84	24.0	0.0	
40	QPSK	216	0	21.90	21.93	21.88	23.0	0.0	

n41 Ant 1 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	QPSK	1	1	21.69	21.80	21.67	23.0	0.0	
100	QPSK	135	69	21.60	21.70	21.57	23.0	0.0	
100	QPSK	270	0	21.45	21.61	21.49	23.0	0.0	

n66 Ant 2 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	15.24	15.36	15.29	16.1	0.0	
40	QPSK	108	54	15.16	15.28	15.18	16.1	0.0	
40	QPSK	216	0	15.11	15.26	15.17	16.1	0.0	

n41 Ant 2 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	QPSK	1	1	14.72	14.77	14.74	15.8	0.0	
100	QPSK	135	69	14.53	14.70	14.68	15.8	0.0	
100	QPSK	270	0	14.59	14.65	14.56	15.8	0.0	

n66 Ant 3 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	17.46	17.54	17.50	18.5	0.0	
40	QPSK	108	54	17.24	17.30	17.22	18.5	0.0	
40	QPSK	216	0	17.33	17.45	17.42	18.5	0.0	

n41 Ant 3 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	QPSK	1	1	15.95	16.01	15.97	16.8	0.0	
100	QPSK	135	69	15.83	15.92	15.90	16.8	0.0	
100	QPSK	270	0	15.82	15.89	15.84	16.8	0.0	



Part270 n77 Ant 4 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	15.12	15.38	15.15			
100	PI/2 BPSK	1	137	14.99	15.25	15.04	16.2	0.0	
100	PI/2 BPSK	1	271	15.08	15.32	15.05			
100	PI/2 BPSK	135	0	15.03	15.26	15.07	16.2	0.0	
100	PI/2 BPSK	135	69	15.00	15.36	15.02	16.2	0.0	
100	PI/2 BPSK	135	138	15.16	15.40	15.00			
100	PI/2 BPSK	270	0	14.99	15.22	15.15	16.2	0.0	
100	QPSK	1	1	15.17	15.42	15.18			
100	QPSK	1	137	15.06	15.33	15.11	16.2	0.0	
100	QPSK	1	271	15.05	15.36	15.08			
100	QPSK	135	0	15.07	15.34	15.07	16.2	0.0	
100	QPSK	135	69	15.08	15.41	15.20	16.2	0.0	
100	QPSK	135	138	15.17	15.37	15.12			
100	QPSK	270	0	15.08	15.25	15.13	16.2	0.0	
100	16QAM	1	1	15.21	15.17	15.15	16.2	0.0	
100	64QAM	1	1	15.12	15.25	15.18	16.2	0.0	
100	256QAM	1	1	15.14	15.36	15.31	16.2	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.04	15.37	15.10	16.2	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	15.07	15.37	15.10	16.2	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.09	15.37	15.06	16.2	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.04	15.36	15.13	16.2	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.13	15.26	15.12	16.2	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	15.08	15.34	15.06	16.2	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	15.10	15.35	15.05	16.2	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	15.11	15.34	15.13	16.2	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.04	15.37	15.14	16.2	0.0	
Channel				647168	656000	664934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.03	15.35	15.13	16.2	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.12	15.29	15.08	16.2	0.0	

Part270 n78 Ant 4 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	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		15.14				
100	PI/2 BPSK	1	137		15.17		16.2	0.0	
100	PI/2 BPSK	1	271		15.11				
100	PI/2 BPSK	135	0		15.04		16.2	0.0	
100	PI/2 BPSK	135	69		15.05		16.2	0.0	
100	PI/2 BPSK	135	138		15.01				
100	PI/2 BPSK	270	0		15.17		16.2	0.0	
100	QPSK	1	1		15.21				
100	QPSK	1	137		15.19		16.2	0.0	
100	QPSK	1	271		15.13				
100	QPSK	135	0		15.10		16.2	0.0	
100	QPSK	135	69		15.12		16.2	0.0	
100	QPSK	135	138		15.04				
100	QPSK	270	0		15.18		16.2	0.0	
100	16QAM	1	1		14.48		16.2	0.0	
100	64QAM	1	1		14.51		16.2	0.0	
100	256QAM	1	1		14.80		16.2	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	15.13	15.16	15.16	16.2	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	15.14	15.15	15.12	16.2	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	15.10	15.19	15.12	16.2	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	15.11	15.18	15.12	16.2	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	15.12	15.12	15.15	16.2	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	15.07	15.16	15.16	16.2	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	15.15	15.14	15.12	16.2	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	15.10	15.15	15.05	16.2	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	15.08	15.14	15.09	16.2	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	15.17	15.17	15.09	16.2	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	15.17	15.13	15.07	16.2	0.0	



Part270 n77 Ant 6 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	13.41	13.45	13.14			
100	PI/2 BPSK	1	137	13.36	13.49	13.15	14.4	0.0	
100	PI/2 BPSK	1	271	13.37	13.47	13.24			
100	PI/2 BPSK	135	0	13.14	13.39	13.10	14.4	0.0	
100	PI/2 BPSK	135	69	13.26	13.33	13.25	14.4	0.0	
100	PI/2 BPSK	135	138	13.13	13.23	13.12	14.4	0.0	
100	PI/2 BPSK	270	0	13.27	13.25	13.25			
100	QPSK	1	1	13.42	13.54	13.35			
100	QPSK	1	137	13.40	13.50	13.34	14.4	0.0	
100	QPSK	1	271	13.45	13.52	13.38			
100	QPSK	135	0	13.27	13.35	13.29	14.4	0.0	
100	QPSK	135	69	13.36	13.47	13.28	14.4	0.0	
100	QPSK	135	138	13.24	13.38	13.26	14.4	0.0	
100	QPSK	270	0	13.24	13.39	13.26			
100	16QAM	1	1	13.03	13.14	13.09	14.4	0.0	
100	64QAM	1	1	13.07	13.17	13.05	14.4	0.0	
100	256QAM	1	1	13.42	13.49	13.36	14.4	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	13.35	13.52	13.31	14.4	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	13.32	13.48	13.25	14.4	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	13.37	13.50	13.24	14.4	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	13.38	13.45	13.31	14.4	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	13.37	13.53	13.33	14.4	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	13.38	13.43	13.29	14.4	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	13.42	13.51	13.29	14.4	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	13.38	13.43	13.30	14.4	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	13.40	13.51	13.32	14.4	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	13.31	13.43	13.24	14.4	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	13.31	13.48	13.30	14.4	0.0	

Part270 n78 Ant 6 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	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		13.27				
100	PI/2 BPSK	1	137		13.30		14.4	0.0	
100	PI/2 BPSK	1	271		13.25				
100	PI/2 BPSK	135	0		12.98		14.4	0.0	
100	PI/2 BPSK	135	69		12.99		14.4	0.0	
100	PI/2 BPSK	135	138		13.03		14.4	0.0	
100	PI/2 BPSK	270	0		13.09				
100	QPSK	1	1		13.35				
100	QPSK	1	137		13.34		14.4	0.0	
100	QPSK	1	271		13.28				
100	QPSK	135	0		13.02		14.4	0.0	
100	QPSK	135	69		13.19		14.4	0.0	
100	QPSK	135	138		13.09		14.4	0.0	
100	QPSK	270	0		13.13				
100	16QAM	1	1		12.83		14.4	0.0	
100	64QAM	1	1		12.74		14.4	0.0	
100	256QAM	1	1		13.32		14.4	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	13.02	13.24	12.87	14.4	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02			
80	QPSK	1	1	13.05	13.26	12.83	14.4	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3760	3765			
70	QPSK	1	1	13.08	13.19	12.83	14.4	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01			
60	QPSK	1	1	13.10	13.21	12.83	14.4	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02			
50	QPSK	1	1	13.03	13.25	12.82	14.4	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780			
40	QPSK	1	1	13.10	13.25	12.91	14.4	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01			
30	QPSK	1	1	13.05	13.21	12.91	14.4	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3760	3787.5			
25	QPSK	1	1	13.05	13.14	12.90	14.4	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02			
20	QPSK	1	1	13.11	13.16	12.89	14.4	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3760	3792.51			
15	QPSK	1	1	13.07	13.23	12.84	14.4	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3760	3795			
10	QPSK	1	1	13.03	13.20	12.90	14.4	0.0	



Part270 n77 Ant 3 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	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	17.77	17.86	17.79	18.9	0.0	
100	PI/2 BPSK	1	137	17.70	17.78	17.75			
100	PI/2 BPSK	1	271	17.63	17.70	17.58			
100	PI/2 BPSK	135	0	17.64	17.72	17.72	18.9	0.0	
100	PI/2 BPSK	135	69	17.62	17.87	17.64	18.9	0.0	
100	PI/2 BPSK	135	138	17.59	17.69	17.59			
100	PI/2 BPSK	270	0	17.70	17.72	17.57	18.9	0.0	
100	QPSK	1	1	17.87	17.95	17.81			
100	QPSK	1	137	17.81	17.84	17.75	18.9	0.0	
100	QPSK	1	271	17.72	17.79	17.80			
100	QPSK	135	0	17.81	17.76	17.74	18.9	0.0	
100	QPSK	135	69	17.73	17.85	17.79	18.9	0.0	
100	QPSK	135	138	17.74	17.84	17.78			
100	QPSK	270	0	17.71	17.88	17.81	18.9	0.0	
100	16QAM	1	1	17.64	17.83	17.73	18.9	0.0	
100	64QAM	1	1	17.63	17.76	17.71	18.9	0.0	
100	256QAM	1	1	17.28	17.33	17.26	18.9	0.0	
Channel				649668	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.83	17.84	17.75	18.9	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	17.80	17.83	17.74	18.9	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3940	3945			
70	QPSK	1	1	17.87	17.89	17.79	18.9	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	17.78	17.90	17.76	18.9	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	17.84	17.86	17.79	18.9	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	17.83	17.88	17.70	18.9	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	17.83	17.86	17.77	18.9	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	17.80	17.84	17.77	18.9	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.82	17.84	17.72	18.9	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	17.84	17.84	17.80	18.9	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	17.83	17.86	17.75	18.9	0.0	

Part270 n78 Ant 3 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	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		17.79				
100	PI/2 BPSK	1	137		17.67		18.9	0.0	
100	PI/2 BPSK	1	271		17.75				
100	PI/2 BPSK	135	0		17.60		18.9	0.0	
100	PI/2 BPSK	135	69		17.77		18.9	0.0	
100	PI/2 BPSK	135	138		17.55				
100	PI/2 BPSK	270	0		17.71		18.9	0.0	
100	QPSK	1	1		17.80				
100	QPSK	1	137		17.76		18.9	0.0	
100	QPSK	1	271		17.71				
100	QPSK	135	0		17.74		18.9	0.0	
100	QPSK	135	69		17.77		18.9	0.0	
100	QPSK	135	138		17.64				
100	QPSK	270	0		17.76		18.9	0.0	
100	16QAM	1	1		17.73		18.9	0.0	
100	64QAM	1	1		17.60		18.9	0.0	
100	256QAM	1	1		17.26		18.9	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	17.54	17.60	17.70	18.9	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	17.45	17.67	17.68	18.9	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	17.55	17.60	17.69	18.9	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	17.52	17.67	17.65	18.9	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	17.46	17.66	17.61	18.9	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	17.52	17.61	17.72	18.9	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	17.48	17.62	17.68	18.9	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	17.50	17.65	17.62	18.9	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	17.49	17.71	17.65	18.9	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	17.45	17.60	17.67	18.9	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	17.45	17.68	17.66	18.9	0.0	



Part270 n77 Ant 8 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	16.52	16.70	16.55	17.8	0.0	
100	PI/2 BPSK	1	137	16.57	16.71	16.50			
100	PI/2 BPSK	1	271	16.46	16.73	16.51			
100	PI/2 BPSK	135	0	16.51	16.75	16.40	17.8	0.0	
100	PI/2 BPSK	135	69	16.60	16.64	16.43	17.8	0.0	
100	PI/2 BPSK	135	138	16.55	16.66	16.43	17.8	0.0	
100	PI/2 BPSK	270	0	16.44	16.59	16.33			
100	QPSK	1	1	16.60	16.76	16.55	17.8	0.0	
100	QPSK	1	137	16.61	16.75	16.49			
100	QPSK	1	271	16.55	16.72	16.48			
100	QPSK	135	0	16.51	16.67	16.49	17.8	0.0	
100	QPSK	135	69	16.57	16.74	16.51	17.8	0.0	
100	QPSK	135	138	16.48	16.68	16.50	17.8	0.0	
100	QPSK	270	0	16.52	16.73	16.53			
100	16QAM	1	1	16.54	16.55	16.46	17.8	0.0	
100	64QAM	1	1	16.46	16.61	16.49	17.8	0.0	
100	256QAM	1	1	16.51	16.64	16.45	17.8	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	16.43	16.61	16.43	17.8	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	16.44	16.59	16.38	17.8	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3840	3945			
70	QPSK	1	1	16.46	16.51	16.36	17.8	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	16.48	16.56	16.40	17.8	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	16.45	16.63	16.37	17.8	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	16.44	16.55	16.40	17.8	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	16.44	16.56	16.43	17.8	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	16.50	16.55	16.36	17.8	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.44	16.58	16.38	17.8	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	16.47	16.56	16.40	17.8	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	16.43	16.61	16.46	17.8	0.0	

Part270 n78 Ant 8 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	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		16.62		17.8	0.0	
100	PI/2 BPSK	1	137		16.55				
100	PI/2 BPSK	1	271		16.61				
100	PI/2 BPSK	135	0		16.60		17.8	0.0	
100	PI/2 BPSK	135	69		16.62		17.8	0.0	
100	PI/2 BPSK	135	138		16.50		17.8	0.0	
100	PI/2 BPSK	270	0		16.43				
100	QPSK	1	1		16.67		17.8	0.0	
100	QPSK	1	137		16.65				
100	QPSK	1	271		16.59				
100	QPSK	135	0		16.61		17.8	0.0	
100	QPSK	135	69		16.63		17.8	0.0	
100	QPSK	135	138		16.53		17.8	0.0	
100	QPSK	270	0		16.60				
100	16QAM	1	1		16.39		17.8	0.0	
100	64QAM	1	1		16.53		17.8	0.0	
100	256QAM	1	1		16.64		17.8	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	16.50	16.61	16.35	17.8	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02			
80	QPSK	1	1	16.53	16.64	16.28	17.8	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3750	3765			
70	QPSK	1	1	16.52	16.65	16.28	17.8	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01			
60	QPSK	1	1	16.55	16.61	16.34	17.8	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02			
50	QPSK	1	1	16.56	16.64	16.30	17.8	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780			
40	QPSK	1	1	16.46	16.63	16.30	17.8	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01			
30	QPSK	1	1	16.52	16.60	16.34	17.8	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3760	3787.5			
25	QPSK	1	1	16.50	16.63	16.30	17.8	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02			
20	QPSK	1	1	16.51	16.66	16.29	17.8	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3760	3792.51			
15	QPSK	1	1	16.50	16.65	16.33	17.8	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3760	3795			
10	QPSK	1	1	16.55	16.63	16.29	17.8	0.0	



Reduced Power Mode for ECI3

n5 Ant 0 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				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	23.13	23.18	23.15	24.0	0.0	
20	QPSK	50	28	23.05	23.13	23.08	24.0	0.0	
20	QPSK	100	0	22.18	22.25	22.20	23.0	1.0	

n66 Ant 0 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	22.80	22.63	22.57	23.8	0.0	
40	QPSK	108	54	22.44	22.56	22.42	23.8	0.0	
40	QPSK	216	0	21.74	21.79	21.72	23.0	0.8	

n41 Ant 0 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	QPSK	1	1	20.11	20.16	20.13	21.3	0.0	
100	QPSK	135	69	19.95	20.07	19.84	21.3	0.0	
100	QPSK	270	0	19.94	20.04	19.92	21.3	0.0	

n5 Ant 1 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				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	22.88	22.94	22.91	24.0	0.0	
20	QPSK	50	28	22.76	22.80	22.78	24.0	0.0	
20	QPSK	100	0	21.87	21.91	21.90	23.0	0.0	

n66 Ant 1 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	22.35	22.39	22.38	23.5	0.0	
40	QPSK	108	54	22.33	22.36	22.29	23.5	0.0	
40	QPSK	216	0	21.90	21.93	21.88	23.0	0.5	

n41 Ant 1 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	QPSK	1	1	19.24	19.39	19.31	20.6	0.0	
100	QPSK	135	69	19.20	19.28	19.15	20.6	0.0	
100	QPSK	270	0	19.04	19.24	19.11	20.6	0.0	

n66 Ant 2 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	17.85	18.00	17.93	19.3	0.0	
40	QPSK	108	54	17.71	17.85	17.77	19.3	0.0	
40	QPSK	216	0	17.74	17.83	17.73	19.3	0.0	

n41 Ant 2 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	QPSK	1	1	17.42	17.45	17.39	19.0	0.0	
100	QPSK	135	69	17.14	17.30	17.25	19.0	0.0	
100	QPSK	270	0	17.23	17.28	17.11	19.0	0.0	

n66 Ant 3 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	20.56	20.85	20.82	21.6	0.0	
40	QPSK	108	54	20.28	20.32	20.31	21.6	0.0	
40	QPSK	216	0	20.25	20.30	20.26	21.6	0.0	

n41 Ant 3 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	QPSK	1	1	19.33	19.43	19.36	20.7	0.0	
100	QPSK	135	69	19.27	19.35	19.32	20.7	0.0	
100	QPSK	270	0	19.32	19.34	19.32	20.7	0.0	



Part270 n77 Ant 4 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	18.67	18.96	18.65	20.3	0.0	
100	PI/2 BPSK	1	137	18.57	18.81	18.60			
100	PI/2 BPSK	1	271	18.65	18.89	18.72			
100	PI/2 BPSK	135	0	18.61	18.87	18.67	20.3	0.0	
100	PI/2 BPSK	135	69	18.55	18.97	18.58	20.3	0.0	
100	PI/2 BPSK	135	138	18.74	18.92	18.58	20.3	0.0	
100	PI/2 BPSK	270	0	18.54	18.79	18.75			
100	QPSK	1	1	18.69	19.03	18.68	20.3	0.0	
100	QPSK	1	137	18.53	18.94	18.70			
100	QPSK	1	271	18.70	19.02	18.61			
100	QPSK	135	0	18.56	18.96	18.74	20.3	0.0	
100	QPSK	135	69	18.61	18.99	18.68	20.3	0.0	
100	QPSK	135	138	18.68	18.90	18.66	20.3	0.0	
100	QPSK	270	0	18.68	18.82	18.71			
100	16QAM	1	1	18.53	18.81	18.64	20.3	0.0	
100	64QAM	1	1	18.66	18.78	18.69	20.3	0.0	
100	256QAM	1	1	18.62	18.85	18.73	20.3	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.66	19.01	18.66	20.3	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.62	19.00	18.63	20.3	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3840	3945			
70	QPSK	1	1	18.67	18.97	18.67	20.3	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.57	18.99	18.60	20.3	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.62	18.93	18.59	20.3	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.66	18.97	18.66	20.3	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.63	19.02	18.65	20.3	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	18.66	19.02	18.58	20.3	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.57	18.94	18.60	20.3	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.57	18.99	18.66	20.3	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.61	18.96	18.64	20.3	0.0	

Part270 n78 Ant 4 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	3750	3750			
100	PI/2 BPSK	1	1		18.84		20.3	0.0	
100	PI/2 BPSK	1	137		18.78				
100	PI/2 BPSK	1	271		18.73				
100	PI/2 BPSK	135	0		18.64		20.3	0.0	
100	PI/2 BPSK	135	69		18.65		20.3	0.0	
100	PI/2 BPSK	135	138		18.64		20.3	0.0	
100	PI/2 BPSK	270	0		18.78				
100	QPSK	1	1		18.86		20.3	0.0	
100	QPSK	1	137		18.82				
100	QPSK	1	271		18.72				
100	QPSK	135	0		18.69		20.3	0.0	
100	QPSK	135	69		18.75		20.3	0.0	
100	QPSK	135	138		18.74		20.3	0.0	
100	QPSK	270	0		18.76				
100	16QAM	1	1		18.53		20.3	0.0	
100	64QAM	1	1		18.50		20.3	0.0	
100	256QAM	1	1		18.57		20.3	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	18.77	18.80	18.73	20.3	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	18.68	18.73	18.76	20.3	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3750	3765			
70	QPSK	1	1	18.73	18.79	18.72	20.3	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	18.68	18.71	18.68	20.3	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	18.72	18.82	18.65	20.3	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	18.68	18.73	18.68	20.3	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	18.72	18.82	18.68	20.3	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	18.72	18.81	18.74	20.3	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	18.74	18.79	18.69	20.3	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	18.66	18.80	18.73	20.3	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	18.73	18.79	18.75	20.3	0.0	



Part270 n77 Ant 6 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	17.10	17.20	16.94		
100	PI/2 BPSK	1	137	17.10	17.17	16.87	18.4	0.0
100	PI/2 BPSK	1	271	17.11	17.25	16.91		
100	PI/2 BPSK	135	0	16.95	17.04	16.75	18.4	0.0
100	PI/2 BPSK	135	69	17.00	17.09	17.00	18.4	0.0
100	PI/2 BPSK	135	138	16.90	17.02	16.84	18.4	0.0
100	PI/2 BPSK	270	0	16.98	17.10	16.90		
100	QPSK	1	1	17.19	17.27	17.16		
100	QPSK	1	137	17.11	17.25	16.94	18.4	0.0
100	QPSK	1	271	17.22	17.26	17.12		
100	QPSK	135	0	17.07	17.16	17.08	18.4	0.0
100	QPSK	135	69	17.12	17.19	17.07	18.4	0.0
100	QPSK	135	138	17.00	17.12	17.05		
100	QPSK	270	0	17.00	17.15	17.03	18.4	0.0
100	16QAM	1	1	17.08	17.06	17.11	18.4	0.0
100	64QAM	1	1	17.03	17.14	17.02	18.4	0.0
100	256QAM	1	1	17.16	17.20	17.17	18.4	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.09	17.22	16.95	18.4	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.17	17.24	17.03	18.4	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3940	3945		
70	QPSK	1	1	17.14	17.23	16.99	18.4	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.11	17.22	16.97	18.4	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	17.14	17.24	16.98	18.4	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.14	17.24	16.98	18.4	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.13	17.26	17.02	18.4	0.0
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	17.12	17.25	16.96	18.4	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.14	17.24	17.02	18.4	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	17.18	17.23	16.97	18.4	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	17.08	17.26	17.01	18.4	0.0

Part270 n78 Ant 6 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	3750	3750		
100	PI/2 BPSK	1	1		17.18			
100	PI/2 BPSK	1	137		17.17		18.4	0.0
100	PI/2 BPSK	1	271		17.16			
100	PI/2 BPSK	135	0		17.02		18.4	0.0
100	PI/2 BPSK	135	69		17.06		18.4	0.0
100	PI/2 BPSK	135	138		17.01			
100	PI/2 BPSK	270	0		17.04		18.4	0.0
100	QPSK	1	1		17.25			
100	QPSK	1	137		17.23		18.4	0.0
100	QPSK	1	271		17.16			
100	QPSK	135	0		17.08		18.4	0.0
100	QPSK	135	69		17.20		18.4	0.0
100	QPSK	135	138		17.08			
100	QPSK	270	0		17.10		18.4	0.0
100	16QAM	1	1		17.07		18.4	0.0
100	64QAM	1	1		17.15		18.4	0.0
100	256QAM	1	1		17.12		18.4	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.08	17.19	16.86	18.4	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.05	17.22	16.91	18.4	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	17.08	17.20	16.89	18.4	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	17.11	17.21	16.84	18.4	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	17.06	17.16	16.90	18.4	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.04	17.18	16.90	18.4	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	17.07	17.18	16.89	18.4	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	17.04	17.16	16.84	18.4	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.10	17.18	16.82	18.4	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	17.06	17.23	16.88	18.4	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	17.04	17.20	16.90	18.4	0.0



Part270 n77 Ant 3 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	21.09	21.14	21.03			
100	PI/2 BPSK	1	137	21.06	21.01	21.07	22.3	0.0	
100	PI/2 BPSK	1	271	20.92	21.05	20.82			
100	PI/2 BPSK	135	0	20.96	21.05	20.99	22.3	0.0	
100	PI/2 BPSK	135	69	20.89	21.09	20.94	22.3	0.0	
100	PI/2 BPSK	135	138	20.84	20.97	20.90			
100	PI/2 BPSK	270	0	20.92	21.04	20.90	22.3	0.0	
100	QPSK	1	1	21.21	21.23	21.10			
100	QPSK	1	137	21.00	21.04	21.08	22.3	0.0	
100	QPSK	1	271	21.01	21.06	21.00			
100	QPSK	135	0	20.99	21.09	21.04	22.3	0.0	
100	QPSK	135	69	21.01	21.13	21.01	22.3	0.0	
100	QPSK	135	138	21.04	20.99	21.04			
100	QPSK	270	0	21.06	21.12	21.07	22.3	0.0	
100	16QAM	1	1	20.92	21.03	20.97	22.3	0.0	
100	64QAM	1	1	20.87	20.92	20.96	22.3	0.0	
100	256QAM	1	1	21.07	21.11	21.07	22.3	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.05	21.11	21.05	22.3	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.00	21.08	21.06	22.3	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.99	21.11	21.09	22.3	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.07	21.06	21.08	22.3	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.06	21.11	21.07	22.3	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.08	21.14	21.12	22.3	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.03	21.16	21.08	22.3	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	20.97	21.09	21.16	22.3	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.06	21.08	21.09	22.3	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.97	21.13	21.13	22.3	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.07	21.16	21.15	22.3	0.0	

Part270 n78 Ant 3 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	3750	3750			
100	PI/2 BPSK	1	1		21.02				
100	PI/2 BPSK	1	137		20.89		22.3	0.0	
100	PI/2 BPSK	1	271		21.03				
100	PI/2 BPSK	135	0		20.88		22.3	0.0	
100	PI/2 BPSK	135	69		21.10		22.3	0.0	
100	PI/2 BPSK	135	138		20.87				
100	PI/2 BPSK	270	0		20.98		22.3	0.0	
100	QPSK	1	1		21.13				
100	QPSK	1	137		20.99		22.3	0.0	
100	QPSK	1	271		20.99				
100	QPSK	135	0		20.98		22.3	0.0	
100	QPSK	135	69		21.08		22.3	0.0	
100	QPSK	135	138		20.91				
100	QPSK	270	0		21.02		22.3	0.0	
100	16QAM	1	1		20.92		22.3	0.0	
100	64QAM	1	1		20.90		22.3	0.0	
100	256QAM	1	1		21.04		22.3	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	20.87	21.10	21.05	22.3	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	20.91	21.09	21.03	22.3	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	20.93	21.09	21.06	22.3	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	20.85	21.07	21.01	22.3	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	20.94	21.11	21.04	22.3	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	20.86	21.10	21.07	22.3	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	20.96	21.11	21.06	22.3	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	20.88	21.10	21.06	22.3	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	20.95	21.08	21.07	22.3	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	20.87	21.10	21.07	22.3	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	20.92	21.07	21.04	22.3	0.0	



Part270 n77 Ant 8 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	19.97	20.15	19.92	21.2	0.0	
100	PI/2 BPSK	1	137	19.95	20.09	19.93			
100	PI/2 BPSK	1	271	19.91	20.06	19.90			
100	PI/2 BPSK	135	0	19.97	20.12	19.87	21.2	0.0	
100	PI/2 BPSK	135	69	19.97	20.09	19.83	21.2	0.0	
100	PI/2 BPSK	135	138	19.97	20.08	19.89	21.2	0.0	
100	PI/2 BPSK	270	0	19.84	19.97	19.73			
100	QPSK	1	1	19.95	20.18	19.97	21.2	0.0	
100	QPSK	1	137	20.01	20.09	19.87			
100	QPSK	1	271	19.94	20.10	19.99			
100	QPSK	135	0	19.99	20.10	19.84	21.2	0.0	
100	QPSK	135	69	20.04	20.14	19.92	21.2	0.0	
100	QPSK	135	138	19.93	20.10	19.89	21.2	0.0	
100	QPSK	270	0	19.93	20.10	19.84			
100	16QAM	1	1	19.83	19.82	19.84	21.2	0.0	
100	64QAM	1	1	19.86	19.90	19.79	21.2	0.0	
100	256QAM	1	1	19.41	19.48	19.46	20.5	0.7	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.00	20.07	19.82	21.2	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.03	20.14	19.79	21.2	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	19.95	20.11	19.89	21.2	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	19.99	20.15	19.85	21.2	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.00	20.12	19.79	21.2	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.03	20.14	19.78	21.2	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	20.01	20.11	19.82	21.2	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	20.00	20.15	19.88	21.2	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	19.97	20.16	19.82	21.2	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.06	20.09	19.84	21.2	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.03	20.13	19.87	21.2	0.0	

Part270 n78 Ant 8 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	3750	3750			
100	PI/2 BPSK	1	1		20.02		21.2	0.0	
100	PI/2 BPSK	1	137		19.94				
100	PI/2 BPSK	1	271		20.09				
100	PI/2 BPSK	135	0		19.98		21.2	0.0	
100	PI/2 BPSK	135	69		19.98		21.2	0.0	
100	PI/2 BPSK	135	138		19.94		21.2	0.0	
100	PI/2 BPSK	270	0		19.87				
100	QPSK	1	1		20.11		21.2	0.0	
100	QPSK	1	137		20.01				
100	QPSK	1	271		19.98				
100	QPSK	135	0		20.02		21.2	0.0	
100	QPSK	135	69		20.05		21.2	0.0	
100	QPSK	135	138		19.99		21.2	0.0	
100	QPSK	270	0		20.01				
100	16QAM	1	1		19.87		21.2	0.0	
100	64QAM	1	1		19.80		21.2	0.0	
100	256QAM	1	1		19.44		20.5	0.7	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	19.93	20.03	19.68	21.2	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	19.89	20.08	19.73	21.2	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	19.96	20.10	19.74	21.2	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	19.91	20.03	19.72	21.2	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	19.92	20.06	19.65	21.2	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	19.86	20.06	19.69	21.2	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	19.92	20.06	19.72	21.2	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	19.93	20.03	19.69	21.2	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	19.91	20.03	19.73	21.2	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	19.90	20.04	19.69	21.2	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	19.94	20.09	19.65	21.2	0.0	



Reduced Power Mode for ECI5

n5 Ant 0 ECI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	22.78	22.81	22.79	24.0	0.0	
20	QPSK	50	28	22.68	22.76	22.74	24.0	0.0	
20	QPSK	100	0	22.18	22.25	22.20	23.0	1.0	

n66 Ant 0 ECI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	19.83	19.86	19.81	21.2	0.0	
40	QPSK	108	54	19.65	19.78	19.68	21.2	0.0	
40	QPSK	216	0	19.75	19.76	19.72	21.2	0.0	

n41 Ant 0 ECI5									
BW [MHz]	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	QPSK	1	1	19.68	19.77	19.66	20.8	0.0	
100	QPSK	135	69	19.53	19.66	19.52	20.8	0.0	
100	QPSK	270	0	19.46	19.63	19.57	20.8	0.0	

n5 Ant 1 ECI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	22.88	22.94	22.91	24.0	0.0	
20	QPSK	50	28	22.76	22.80	22.78	24.0	0.0	
20	QPSK	100	0	21.87	21.91	21.90	23.0	0.0	

n66 Ant 1 ECI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	20.36	20.47	20.40	22.0	0.0	
40	QPSK	108	54	20.36	20.45	20.32	22.0	0.0	
40	QPSK	216	0	20.41	20.43	20.39	22.0	0.0	

n41 Ant 1 ECI5									
BW [MHz]	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	QPSK	1	1	20.45	20.54	20.40	22.1	0.0	
100	QPSK	135	69	20.31	20.41	20.27	22.1	0.0	
100	QPSK	270	0	20.17	20.36	20.18	22.1	0.0	

n66 Ant 2 ECI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	19.50	19.77	19.52	20.8	0.0	
40	QPSK	108	54	19.47	19.54	19.50	20.8	0.0	
40	QPSK	216	0	19.57	19.66	19.59	20.8	0.0	

n41 Ant 2 ECI5									
BW [MHz]	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	QPSK	1	1	17.55	17.58	17.53	19.1	0.0	
100	QPSK	135	69	17.35	17.56	17.46	19.1	0.0	
100	QPSK	270	0	17.43	17.48	17.41	19.1	0.0	

n66 Ant 3 ECI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	23.05	23.11	23.10	24.0	0.0	
40	QPSK	108	54	22.80	22.85	22.82	24.0	0.0	
40	QPSK	216	0	21.86	21.94	21.90	23.0	1.0	

n41 Ant 3 ECI5									
BW [MHz]	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	QPSK	1	1	18.54	18.66	18.63	20.2	0.0	
100	QPSK	135	69	18.33	18.59	18.56	20.2	0.0	
100	QPSK	270	0	18.45	18.52	18.50	20.2	0.0	



Part270 n77 Ant 4 ECI5									
BW [MHz]	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	20.08	20.13	19.97	21.4	0.0	
100	PI/2 BPSK	1	137	20.07	20.20	19.99			
100	PI/2 BPSK	1	271	20.06	20.16	20.06			
100	PI/2 BPSK	135	0	20.05	20.13	20.06	21.4	0.0	
100	PI/2 BPSK	135	69	20.09	20.20	19.98	21.4	0.0	
100	PI/2 BPSK	135	138	20.13	20.16	20.02	21.4	0.0	
100	PI/2 BPSK	270	0	20.08	20.12	19.97			
100	QPSK	1	1	20.24	20.30	20.26			
100	QPSK	1	137	20.16	20.17	20.00	21.4	0.0	
100	QPSK	1	271	20.14	20.19	19.98			
100	QPSK	135	0	20.16	20.23	19.96	21.4	0.0	
100	QPSK	135	69	20.25	20.28	20.22	21.4	0.0	
100	QPSK	135	138	20.10	20.12	19.95	21.4	0.0	
100	QPSK	270	0	20.18	20.25	20.08			
100	16QAM	1	1	20.06	20.13	20.02	21.4	0.0	
100	64QAM	1	1	20.16	20.16	20.01	21.4	0.0	
100	256QAM	1	1	20.13	20.14	20.01	21.4	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	21.4	0.0	
90	QPSK	1	1	20.04	20.18	20.01	21.4	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	21.4	0.0	
80	QPSK	1	1	20.06	20.22	19.95	21.4	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3940	3945	21.4	0.0	
70	QPSK	1	1	20.09	20.15	20.00	21.4	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	21.4	0.0	
60	QPSK	1	1	20.05	20.16	19.94	21.4	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	21.4	0.0	
50	QPSK	1	1	20.11	20.21	20.03	21.4	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	21.4	0.0	
40	QPSK	1	1	20.14	20.22	19.95	21.4	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	21.4	0.0	
30	QPSK	1	1	20.09	20.17	19.94	21.4	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5	21.4	0.0	
25	QPSK	1	1	20.12	20.16	20.03	21.4	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	21.4	0.0	
20	QPSK	1	1	20.07	20.11	20.06	21.4	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51	21.4	0.0	
15	QPSK	1	1	20.15	20.18	19.95	21.4	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975	21.4	0.0	
10	QPSK	1	1	20.10	20.12	19.95	21.4	0.0	

Part270 n78 Ant 4 ECI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		20.01		21.4	0.0	
100	PI/2 BPSK	1	137		20.10				
100	PI/2 BPSK	1	271		20.11				
100	PI/2 BPSK	135	0		20.06		21.4	0.0	
100	PI/2 BPSK	135	69		20.09		21.4	0.0	
100	PI/2 BPSK	135	138		20.08		21.4	0.0	
100	PI/2 BPSK	270	0		20.06				
100	QPSK	1	1		20.22				
100	QPSK	1	137		20.06		21.4	0.0	
100	QPSK	1	271		20.16				
100	QPSK	135	0		20.15		21.4	0.0	
100	QPSK	135	69		20.16		21.4	0.0	
100	QPSK	135	138		20.05		21.4	0.0	
100	QPSK	270	0		20.13				
100	16QAM	1	1		20.02		21.4	0.0	
100	64QAM	1	1		20.08		21.4	0.0	
100	256QAM	1	1		20.10		21.4	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	21.4	0.0	
90	QPSK	1	1	20.12	20.13	20.04	21.4	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	21.4	0.0	
80	QPSK	1	1	20.10	20.13	20.00	21.4	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	21.4	0.0	
70	QPSK	1	1	20.05	20.14	20.00	21.4	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	21.4	0.0	
60	QPSK	1	1	20.07	20.17	20.03	21.4	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	21.4	0.0	
50	QPSK	1	1	20.14	20.15	19.97	21.4	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	21.4	0.0	
40	QPSK	1	1	20.05	20.15	20.01	21.4	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	21.4	0.0	
30	QPSK	1	1	20.15	20.20	19.97	21.4	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5	21.4	0.0	
25	QPSK	1	1	20.11	20.13	20.05	21.4	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	21.4	0.0	
20	QPSK	1	1	20.15	20.17	20.02	21.4	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	21.4	0.0	
15	QPSK	1	1	20.13	20.19	20.02	21.4	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	21.4	0.0	
10	QPSK	1	1	20.13	20.12	20.06	21.4	0.0	



Part270 n77 Ant 6 ECI5									
BW [MHz]	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	16.56	16.60	16.55			
100	PI/2 BPSK	1	137	16.56	16.61	16.59	18.1	0.0	
100	PI/2 BPSK	1	271	16.58	16.61	16.55			
100	PI/2 BPSK	135	0	16.60	16.59	16.57	18.1	0.0	
100	PI/2 BPSK	135	69	16.61	16.64	16.54	18.1	0.0	
100	PI/2 BPSK	135	138	16.55	16.65	16.55	18.1	0.0	
100	PI/2 BPSK	270	0	16.55	16.64	16.54			
100	QPSK	1	1	16.71	16.75	16.70			
100	QPSK	1	137	16.56	16.56	16.59	18.1	0.0	
100	QPSK	1	271	16.61	16.58	16.56			
100	QPSK	135	0	16.52	16.59	16.62	18.1	0.0	
100	QPSK	135	69	16.65	16.70	16.61	18.1	0.0	
100	QPSK	135	138	16.50	16.59	16.58			
100	QPSK	270	0	16.61	16.65	16.64	18.1	0.0	
100	16QAM	1	1	16.59	16.63	16.54	18.1	0.0	
100	64QAM	1	1	16.62	16.58	16.54	18.1	0.0	
100	256QAM	1	1	16.50	16.54	16.56	18.1	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	16.51	16.57	16.53	18.1	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	16.55	16.64	16.58	18.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	16.53	16.56	16.62	18.1	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	16.50	16.56	16.55	18.1	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	16.58	16.60	16.63	18.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	16.60	16.60	16.64	18.1	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	16.61	16.60	16.53	18.1	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	16.55	16.54	16.57	18.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.55	16.65	16.63	18.1	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	16.55	16.59	16.61	18.1	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	16.52	16.61	16.57	18.1	0.0	

Part270 n78 Ant 6 ECI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		16.51				
100	PI/2 BPSK	1	137		16.48		18.1	0.0	
100	PI/2 BPSK	1	271		16.51				
100	PI/2 BPSK	135	0		16.55		18.1	0.0	
100	PI/2 BPSK	135	69		16.55		18.1	0.0	
100	PI/2 BPSK	135	138		16.52				
100	PI/2 BPSK	270	0		16.54		18.1	0.0	
100	QPSK	1	1		16.68				
100	QPSK	1	137		16.44		18.1	0.0	
100	QPSK	1	271		16.51				
100	QPSK	135	0		16.47		18.1	0.0	
100	QPSK	135	69		16.57		18.1	0.0	
100	QPSK	135	138		16.51				
100	QPSK	270	0		16.55		18.1	0.0	
100	16QAM	1	1		16.50		18.1	0.0	
100	64QAM	1	1		16.48		18.1	0.0	
100	256QAM	1	1		16.49		18.1	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	16.39	16.49	16.51	18.1	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	16.39	16.48	16.41	18.1	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.47	16.47	16.46	18.1	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	16.41	16.54	16.48	18.1	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	16.40	16.47	16.44	18.1	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.41	16.45	16.48	18.1	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	16.38	16.54	16.48	18.1	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	16.42	16.45	16.51	18.1	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	16.43	16.48	16.43	18.1	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	16.48	16.54	16.42	18.1	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	16.46	16.49	16.42	18.1	0.0	



Part270 n77 Ant 3 ECI5									
BW [MHz]	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	19.76	19.78	19.83			
100	PI/2 BPSK	1	137	19.75	19.79	19.84	20.9	0.0	
100	PI/2 BPSK	1	271	19.69	19.80	19.80			
100	PI/2 BPSK	135	0	19.77	19.79	19.75	20.9	0.0	
100	PI/2 BPSK	135	69	19.73	19.79	19.85	20.9	0.0	
100	PI/2 BPSK	135	138	19.74	19.88	19.82			
100	PI/2 BPSK	270	0	19.75	19.86	19.77	20.9	0.0	
100	QPSK	1	1	19.94	19.98	19.96			
100	QPSK	1	137	19.87	19.85	19.81	20.9	0.0	
100	QPSK	1	271	19.74	19.80	19.78			
100	QPSK	135	0	19.70	19.86	19.78	20.9	0.0	
100	QPSK	135	69	19.92	19.95	19.93	20.9	0.0	
100	QPSK	135	138	19.72	19.83	19.79			
100	QPSK	270	0	19.80	19.92	19.87	20.9	0.0	
100	16QAM	1	1	19.75	19.83	19.84	20.9	0.0	
100	64QAM	1	1	19.75	19.82	19.78	20.9	0.0	
100	256QAM	1	1	19.75	19.86	19.81	20.9	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	19.74	19.84	19.77	20.9	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	19.74	19.88	19.75	20.9	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3940	3945			
70	QPSK	1	1	19.73	19.85	19.75	20.9	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	19.68	19.79	19.82	20.9	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	19.70	19.82	19.77	20.9	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	19.73	19.83	19.81	20.9	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	19.70	19.87	19.83	20.9	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	19.69	19.84	19.78	20.9	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	19.72	19.88	19.75	20.9	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	19.74	19.82	19.81	20.9	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	19.74	19.82	19.80	20.9	0.0	

Part270 n78 Ant 3 ECI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		19.72				
100	PI/2 BPSK	1	137		19.70		20.9	0.0	
100	PI/2 BPSK	1	271		19.72				
100	PI/2 BPSK	135	0		19.77		20.9	0.0	
100	PI/2 BPSK	135	69		19.70		20.9	0.0	
100	PI/2 BPSK	135	138		19.82				
100	PI/2 BPSK	270	0		19.76		20.9	0.0	
100	QPSK	1	1		19.92				
100	QPSK	1	137		19.76		20.9	0.0	
100	QPSK	1	271		19.87				
100	QPSK	135	0		19.78		20.9	0.0	
100	QPSK	135	69		19.85		20.9	0.0	
100	QPSK	135	138		19.78				
100	QPSK	270	0		19.81		20.9	0.0	
100	16QAM	1	1		19.74		20.9	0.0	
100	64QAM	1	1		19.74		20.9	0.0	
100	256QAM	1	1		19.75		20.9	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		19.72	19.73	19.65	20.9	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		19.62	19.71	19.71	20.9	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		19.65	19.72	19.88	20.9	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		19.61	19.82	19.70	20.9	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		19.67	19.81	19.65	20.9	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		19.60	19.72	19.67	20.9	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		19.68	19.76	19.73	20.9	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1		19.70	19.73	19.65	20.9	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		19.66	19.79	19.83	20.9	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		19.61	19.81	19.73	20.9	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		19.71	19.82	19.68	20.9	0.0



Part270 n77 Ant 8 ECI5									
BW [MHz]	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	18.62	18.68	18.53			
100	PI/2 BPSK	1	137	18.64	18.63	18.57	19.6	0.0	
100	PI/2 BPSK	1	271	18.55	18.64	18.51			
100	PI/2 BPSK	135	0	18.57	18.61	18.57	19.6	0.0	
100	PI/2 BPSK	135	69	18.54	18.65	18.47	19.6	0.0	
100	PI/2 BPSK	135	138	18.57	18.62	18.51			
100	PI/2 BPSK	270	0	18.61	18.69	18.57	19.6	0.0	
100	QPSK	1	1	18.76	18.80	18.78			
100	QPSK	1	137	18.61	18.64	18.59	19.6	0.0	
100	QPSK	1	271	18.58	18.69	18.48			
100	QPSK	135	0	18.56	18.69	18.49	19.6	0.0	
100	QPSK	135	69	18.75	18.77	18.72	19.6	0.0	
100	QPSK	135	138	18.54	18.66	18.58			
100	QPSK	270	0	18.68	18.72	18.61	19.6	0.0	
100	16QAM	1	1	18.59	18.65	18.51	19.6	0.0	
100	64QAM	1	1	18.65	18.68	18.56	19.6	0.0	
100	256QAM	1	1	18.54	18.62	18.56	19.6	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.49	18.56	18.29	19.6	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.54	18.59	18.33	19.6	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3840	3945			
70	QPSK	1	1	18.53	18.58	18.38	19.6	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.54	18.57	18.37	19.6	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.56	18.61	18.32	19.6	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.55	18.67	18.34	19.6	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.53	18.67	18.29	19.6	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	18.50	18.67	18.33	19.6	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.54	18.64	18.30	19.6	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.51	18.64	18.34	19.6	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.48	18.61	18.33	19.6	0.0	

Part270 n78 Ant 8 ECI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		18.57				
100	PI/2 BPSK	1	137		18.57		19.6	0.0	
100	PI/2 BPSK	1	271		18.55				
100	PI/2 BPSK	135	0		18.47		19.6	0.0	
100	PI/2 BPSK	135	69		18.52		19.6	0.0	
100	PI/2 BPSK	135	138		18.57				
100	PI/2 BPSK	270	0		18.58		19.6	0.0	
100	QPSK	1	1		18.76				
100	QPSK	1	137		18.60		19.6	0.0	
100	QPSK	1	271		18.57				
100	QPSK	135	0		18.56		19.6	0.0	
100	QPSK	135	69		18.72		19.6	0.0	
100	QPSK	135	138		18.63				
100	QPSK	270	0		18.61		19.6	0.0	
100	16QAM	1	1		18.54		19.6	0.0	
100	64QAM	1	1		18.57		19.6	0.0	
100	256QAM	1	1		18.52		19.6	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		18.36		18.20	19.6	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		18.36		18.22	19.6	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3750	3765			
70	QPSK	1	1		18.40		18.16	19.6	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		18.44		18.24	19.6	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		18.37		18.18	19.6	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		18.40		18.18	19.6	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		18.43		18.24	19.6	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1		18.43		18.18	19.6	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		18.45		18.15	19.6	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		18.40		18.25	19.6	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		18.35		18.25	19.6	0.0



Reduced Power Mode for ECI6

n5 Ant 0 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				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	23.13	23.18	23.15	24.0	0.0	
20	QPSK	50	28	23.05	23.13	23.08	24.0	0.0	
20	QPSK	100	0	22.18	22.25	22.20	23.0	1.0	

n66 Ant 0 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	22.80	22.82	22.78	24.0	0.0	
40	QPSK	108	54	22.70	22.71	22.67	24.0	0.0	
40	QPSK	216	0	21.74	21.79	21.72	23.0	1.0	

n41 Ant 0 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	QPSK	1	1	21.76	21.84	21.78	23.0	0.0	
100	QPSK	135	69	21.68	21.74	21.59	23.0	0.0	
100	QPSK	270	0	21.61	21.69	21.62	23.0	0.0	

n5 Ant 1 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				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	22.88	22.94	22.91	24.0	0.0	
20	QPSK	50	28	22.76	22.80	22.78	24.0	0.0	
20	QPSK	100	0	21.87	21.91	21.90	23.0	0.0	

n66 Ant 1 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	22.89	22.94	22.92	24.0	0.0	
40	QPSK	108	54	22.85	22.89	22.84	24.0	0.0	
40	QPSK	216	0	21.90	21.93	21.88	23.0	0.0	

n41 Ant 1 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	QPSK	1	1	21.69	21.80	21.67	23.0	0.0	
100	QPSK	135	69	21.60	21.70	21.57	23.0	0.0	
100	QPSK	270	0	21.45	21.61	21.49	23.0	0.0	

n66 Ant 2 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	20.59	20.75	20.64	21.9	0.0	
40	QPSK	108	54	20.40	20.55	20.49	21.9	0.0	
40	QPSK	216	0	20.58	20.60	20.56	21.9	0.0	

n41 Ant 2 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	QPSK	1	1	20.50	20.52	20.45	21.6	0.0	
100	QPSK	135	69	20.23	20.49	20.39	21.6	0.0	
100	QPSK	270	0	20.30	20.35	20.22	21.6	0.0	

n66 Ant 3 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	21.57	21.81	21.57	22.9	0.0	
40	QPSK	108	54	21.35	21.37	21.30	22.9	0.0	
40	QPSK	216	0	21.31	21.40	21.38	22.9	0.1	

n41 Ant 3 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	QPSK	1	1	19.05	19.11	19.10	20.1	0.0	
100	QPSK	135	69	18.97	19.06	19.01	20.1	0.0	
100	QPSK	270	0	18.99	19.02	18.99	20.1	0.0	



Part270 n77 Ant 4 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	19.05	19.08	18.91			
100	PI/2 BPSK	1	137	19.08	19.13	18.94	20.1	0.0	
100	PI/2 BPSK	1	271	19.02	19.13	18.96			
100	PI/2 BPSK	135	0	19.11	19.13	18.91	20.1	0.0	
100	PI/2 BPSK	135	69	19.02	19.13	19.00	20.1	0.0	
100	PI/2 BPSK	135	138	19.07	19.05	18.91	20.1	0.0	
100	PI/2 BPSK	270	0	19.11	19.14	18.92			
100	QPSK	1	1	19.18	19.21	19.16			
100	QPSK	1	137	19.08	19.06	18.91	20.1	0.0	
100	QPSK	1	271	19.12	19.09	18.97			
100	QPSK	135	0	19.06	19.11	18.92	20.1	0.0	
100	QPSK	135	69	19.11	19.10	19.07	20.1	0.0	
100	QPSK	135	138	19.07	19.03	18.90	20.1	0.0	
100	QPSK	270	0	19.15	19.17	19.03	20.1	0.0	
100	16QAM	1	1	19.09	19.08	18.92	20.1	0.0	
100	64QAM	1	1	19.08	19.06	19.00	20.1	0.0	
100	256QAM	1	1	19.10	19.15	18.98	20.1	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	20.1	0.0	
90	QPSK	1	1	19.05	19.09	18.90	20.1	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	20.1	0.0	
80	QPSK	1	1	19.12	19.09	18.90	20.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945	20.1	0.0	
70	QPSK	1	1	19.06	19.09	18.91	20.1	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	20.1	0.0	
60	QPSK	1	1	19.11	19.07	19.00	20.1	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	20.1	0.0	
50	QPSK	1	1	19.13	19.07	18.98	20.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	20.1	0.0	
40	QPSK	1	1	19.06	19.13	18.99	20.1	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	20.1	0.0	
30	QPSK	1	1	19.05	19.14	18.96	20.1	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5	20.1	0.0	
25	QPSK	1	1	19.07	19.13	18.96	20.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	20.1	0.0	
20	QPSK	1	1	19.10	19.10	18.96	20.1	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51	20.1	0.0	
15	QPSK	1	1	19.04	19.11	18.93	20.1	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975	20.1	0.0	
10	QPSK	1	1	19.11	19.07	18.93	20.1	0.0	

Part270 n78 Ant 4 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	3750	3750			
100	PI/2 BPSK	1	1		18.97				
100	PI/2 BPSK	1	137		19.08		20.1	0.0	
100	PI/2 BPSK	1	271		19.06				
100	PI/2 BPSK	135	0		19.05		20.1	0.0	
100	PI/2 BPSK	135	69		19.04		20.1	0.0	
100	PI/2 BPSK	135	138		18.93		20.1	0.0	
100	PI/2 BPSK	270	0		19.08				
100	QPSK	1	1		19.17				
100	QPSK	1	137		19.01		20.1	0.0	
100	QPSK	1	271		19.02				
100	QPSK	135	0		19.05		20.1	0.0	
100	QPSK	135	69		19.16		20.1	0.0	
100	QPSK	135	138		18.91		20.1	0.0	
100	QPSK	270	0		19.14		20.1	0.0	
100	16QAM	1	1		18.98		20.1	0.0	
100	64QAM	1	1		19.01		20.1	0.0	
100	256QAM	1	1		19.04		20.1	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	20.1	0.0	
90	QPSK	1	1	19.05	19.13	18.89	20.1	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02	20.1	0.0	
80	QPSK	1	1	19.04	19.04	18.92	20.1	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3760	3765	20.1	0.0	
70	QPSK	1	1	19.04	19.11	18.90	20.1	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01	20.1	0.0	
60	QPSK	1	1	19.08	19.10	18.94	20.1	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02	20.1	0.0	
50	QPSK	1	1	19.05	19.11	18.93	20.1	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780	20.1	0.0	
40	QPSK	1	1	19.07	19.11	19.00	20.1	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01	20.1	0.0	
30	QPSK	1	1	19.05	19.07	18.99	20.1	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3760	3787.5	20.1	0.0	
25	QPSK	1	1	19.02	19.05	18.92	20.1	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02	20.1	0.0	
20	QPSK	1	1	19.12	19.06	18.98	20.1	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3760	3792.51	20.1	0.0	
15	QPSK	1	1	19.03	19.07	19.00	20.1	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3760	3795	20.1	0.0	
10	QPSK	1	1	19.08	19.04	18.91	20.1	0.0	



Part270 n77 Ant 6 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	19.08	19.13	18.78			
100	PI/2 BPSK	1	137	18.90	19.12	18.75	20.1	0.0	
100	PI/2 BPSK	1	271	18.97	19.18	18.85			
100	PI/2 BPSK	135	0	18.89	19.03	18.66	20.1	0.0	
100	PI/2 BPSK	135	69	18.89	18.96	18.85	20.1	0.0	
100	PI/2 BPSK	135	138	18.87	18.95	18.78	20.1	0.0	
100	PI/2 BPSK	270	0	18.84	18.94	18.90			
100	QPSK	1	1	19.04	19.20	18.91			
100	QPSK	1	137	19.05	19.18	18.89	20.1	0.0	
100	QPSK	1	271	19.14	19.15	18.83			
100	QPSK	135	0	18.97	19.10	18.72	20.1	0.0	
100	QPSK	135	69	19.00	19.11	18.87	20.1	0.0	
100	QPSK	135	138	18.90	19.07	18.85	20.1	0.0	
100	QPSK	270	0	18.93	19.05	18.82	20.1	0.0	
100	16QAM	1	1	18.68	18.81	18.79	20.1	0.0	
100	64QAM	1	1	18.70	18.82	18.76	20.1	0.0	
100	256QAM	1	1	19.06	19.12	19.10	20.1	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	19.00	19.18	18.83	20.1	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.96	19.16	18.88	20.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	19.01	19.19	18.90	20.1	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.96	19.12	18.87	20.1	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.92	19.10	18.89	20.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.95	19.13	18.85	20.1	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.98	19.16	18.82	20.1	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	19.00	19.13	18.90	20.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	19.01	19.20	18.88	20.1	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.93	19.13	18.81	20.1	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.92	19.16	18.85	20.1	0.0	

Part270 n78 Ant 6 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	3750	3750			
100	PI/2 BPSK	1	1		19.04				
100	PI/2 BPSK	1	137		19.07		20.1	0.0	
100	PI/2 BPSK	1	271		19.15				
100	PI/2 BPSK	135	0		18.87		20.1	0.0	
100	PI/2 BPSK	135	69		18.90		20.1	0.0	
100	PI/2 BPSK	135	138		18.91		20.1	0.0	
100	PI/2 BPSK	270	0		18.87				
100	QPSK	1	1		19.19				
100	QPSK	1	137		19.15		20.1	0.0	
100	QPSK	1	271		19.12				
100	QPSK	135	0		18.98		20.1	0.0	
100	QPSK	135	69		19.03		20.1	0.0	
100	QPSK	135	138		18.98		20.1	0.0	
100	QPSK	270	0		19.03		20.1	0.0	
100	16QAM	1	1		18.67		20.1	0.0	
100	64QAM	1	1		18.58		20.1	0.0	
100	256QAM	1	1		19.02		20.1	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	18.96	19.06	18.77	20.1	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	18.97	19.08	18.76	20.1	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	18.92	19.13	18.80	20.1	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	19.01	19.05	18.78	20.1	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	18.92	19.04	18.77	20.1	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	18.91	19.10	18.81	20.1	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	18.94	19.12	18.75	20.1	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	19.00	19.08	18.77	20.1	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	18.92	19.08	18.77	20.1	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	19.00	19.12	18.75	20.1	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	18.96	19.05	18.74	20.1	0.0	



Part270 n77 Ant 3 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	23.27	23.29	23.17			
100	PI/2 BPSK	1	137	23.20	23.23	23.20	24.0	0.0	
100	PI/2 BPSK	1	271	23.14	23.20	23.06			
100	PI/2 BPSK	135	0	23.11	23.18	23.15	24.0	0.0	
100	PI/2 BPSK	135	69	23.11	23.27	23.14	24.0	0.0	
100	PI/2 BPSK	135	138	23.00	23.14	23.07			
100	PI/2 BPSK	270	0	23.15	23.19	23.03	24.0	0.0	
100	QPSK	1	1	23.36	23.43	23.31			
100	QPSK	1	137	23.21	23.28	23.22	24.0	0.0	
100	QPSK	1	271	23.13	23.25	23.23			
100	QPSK	135	0	23.22	23.26	23.23	24.0	0.0	
100	QPSK	135	69	23.23	23.33	23.23	24.0	0.0	
100	QPSK	135	138	23.19	23.23	23.18			
100	QPSK	270	0	23.22	23.30	23.26	24.0	0.0	
100	16QAM	1	1	23.11	23.22	23.20	24.0	0.0	
100	64QAM	1	1	23.09	23.11	23.14	24.0	0.0	
100	256QAM	1	1	21.75	21.79	21.75	22.5	1.5	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	24.0	0.0	
90	QPSK	1	1	23.12	23.22	23.21	24.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	24.0	0.0	
80	QPSK	1	1	23.19	23.22	23.22	24.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945	24.0	0.0	
70	QPSK	1	1	23.17	23.18	23.20	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	24.0	0.0	
60	QPSK	1	1	23.19	23.25	23.12	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	24.0	0.0	
50	QPSK	1	1	23.10	23.24	23.14	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	24.0	0.0	
40	QPSK	1	1	23.18	23.25	23.18	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	24.0	0.0	
30	QPSK	1	1	23.14	23.16	23.20	24.0	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5	24.0	0.0	
25	QPSK	1	1	23.12	23.23	23.14	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	24.0	0.0	
20	QPSK	1	1	23.09	23.19	23.21	24.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51	24.0	0.0	
15	QPSK	1	1	23.17	23.19	23.23	24.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975	24.0	0.0	
10	QPSK	1	1	23.13	23.19	23.15	24.0	0.0	

Part270 n78 Ant 3 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	3750	3750			
100	PI/2 BPSK	1	1		23.23				
100	PI/2 BPSK	1	137		23.12		24.0	0.0	
100	PI/2 BPSK	1	271		23.16				
100	PI/2 BPSK	135	0		23.09		24.0	0.0	
100	PI/2 BPSK	135	69		23.22		24.0	0.0	
100	PI/2 BPSK	135	138		23.02				
100	PI/2 BPSK	270	0		23.12		24.0	0.0	
100	QPSK	1	1		23.29				
100	QPSK	1	137		23.20		24.0	0.0	
100	QPSK	1	271		23.19				
100	QPSK	135	0		23.20		24.0	0.0	
100	QPSK	135	69		23.22		24.0	0.0	
100	QPSK	135	138		23.13				
100	QPSK	270	0		23.20		24.0	0.0	
100	16QAM	1	1		23.18		24.0	0.0	
100	64QAM	1	1		23.07		24.0	0.0	
100	256QAM	1	1		21.72		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	1	23.00	23.15	23.17	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02	24.0	0.0	
80	QPSK	1	1	23.07	23.11	23.17	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3760	3765	24.0	0.0	
70	QPSK	1	1	23.07	23.11	23.12	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01	24.0	0.0	
60	QPSK	1	1	23.07	23.10	23.15	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02	24.0	0.0	
50	QPSK	1	1	23.07	23.08	23.09	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780	24.0	0.0	
40	QPSK	1	1	23.09	23.19	23.18	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01	24.0	0.0	
30	QPSK	1	1	22.99	23.13	23.08	24.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3760	3787.5	24.0	0.0	
25	QPSK	1	1	23.07	23.11	23.09	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02	24.0	0.0	
20	QPSK	1	1	23.01	23.11	23.13	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3760	3792.51	24.0	0.0	
15	QPSK	1	1	23.01	23.10	23.10	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3760	3795	24.0	0.0	
10	QPSK	1	1	23.02	23.20	23.12	24.0	0.0	



Part270 n77 Ant 8 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	18.38	18.70	18.37	19.6	0.0	
100	PI/2 BPSK	1	137	18.45	18.64	18.32			
100	PI/2 BPSK	1	271	18.39	18.54	18.35			
100	PI/2 BPSK	135	0	18.51	18.57	18.29	19.6	0.0	
100	PI/2 BPSK	135	69	18.42	18.52	18.32	19.6	0.0	
100	PI/2 BPSK	135	138	18.41	18.57	18.35	19.6	0.0	
100	PI/2 BPSK	270	0	18.29	18.48	18.21			
100	QPSK	1	1	18.48	18.74	18.37	19.6	0.0	
100	QPSK	1	137	18.42	18.68	18.36			
100	QPSK	1	271	18.46	18.59	18.39			
100	QPSK	135	0	18.42	18.59	18.42	19.6	0.0	
100	QPSK	135	69	18.50	18.65	18.41	19.6	0.0	
100	QPSK	135	138	18.44	18.53	18.32	19.6	0.0	
100	QPSK	270	0	18.34	18.54	18.34			
100	16QAM	1	1	18.33	18.39	18.28	19.6	0.0	
100	64QAM	1	1	18.27	18.35	18.37	19.6	0.0	
100	256QAM	1	1	18.38	18.45	18.51	19.6	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.49	18.56	18.29	19.6	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.54	18.59	18.33	19.6	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3840	3945			
70	QPSK	1	1	18.53	18.58	18.38	19.6	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.54	18.57	18.37	19.6	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.56	18.61	18.32	19.6	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.55	18.67	18.34	19.6	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.53	18.67	18.29	19.6	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	18.50	18.67	18.33	19.6	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.54	18.64	18.30	19.6	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.51	18.64	18.34	19.6	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.48	18.61	18.33	19.6	0.0	

Part270 n78 Ant 8 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	3750	3750			
100	PI/2 BPSK	1	1		18.49		19.6	0.0	
100	PI/2 BPSK	1	137		18.50				
100	PI/2 BPSK	1	271		18.58				
100	PI/2 BPSK	135	0		18.50		19.6	0.0	
100	PI/2 BPSK	135	69		18.49		19.6	0.0	
100	PI/2 BPSK	135	138		18.46		19.6	0.0	
100	PI/2 BPSK	270	0		18.39				
100	QPSK	1	1		18.65		19.6	0.0	
100	QPSK	1	137		18.57				
100	QPSK	1	271		18.56				
100	QPSK	135	0		18.53		19.6	0.0	
100	QPSK	135	69		18.59		19.6	0.0	
100	QPSK	135	138		18.53		19.6	0.0	
100	QPSK	270	0		18.44				
100	16QAM	1	1		18.17		19.6	0.0	
100	64QAM	1	1		18.36		19.6	0.0	
100	256QAM	1	1		18.32		19.6	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	18.36	18.62	18.20	19.6	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	18.36	18.63	18.22	19.6	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3750	3765			
70	QPSK	1	1	18.40	18.57	18.16	19.6	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	18.44	18.64	18.24	19.6	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	18.37	18.57	18.18	19.6	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	18.40	18.54	18.18	19.6	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	18.43	18.61	18.24	19.6	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	18.43	18.58	18.18	19.6	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	18.45	18.64	18.15	19.6	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	18.40	18.52	18.25	19.6	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	18.35	18.59	18.25	19.6	0.0	



Reduced Power Mode for ECI9

n5 Ant 0 ECI9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	23.13	23.18	23.15	24.0	0.0	
20	QPSK	50	28	23.05	23.13	23.08	24.0	0.0	
20	QPSK	100	0	22.18	22.25	22.20	23.0	1.0	

n66 Ant 0 ECI9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	19.50	19.55	19.52	20.4	0.0	
40	QPSK	108	54	19.44	19.45	19.42	20.4	0.0	
40	QPSK	216	0	19.41	19.50	19.45	20.4	1.0	

n41 Ant 0 ECI9									
BW [MHz]	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	QPSK	1	1	20.22	20.31	20.26	21.5	0.0	
100	QPSK	135	69	20.16	20.27	20.04	21.5	0.0	
100	QPSK	270	0	20.09	20.18	20.11	21.5	0.0	

n5 Ant 1 ECI9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	22.88	22.94	22.91	24.0	0.0	
20	QPSK	50	28	22.76	22.80	22.78	24.0	0.0	
20	QPSK	100	0	21.87	21.91	21.90	23.0	0.0	

n66 Ant 1 ECI9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	21.67	21.78	21.71	22.9	0.0	
40	QPSK	108	54	21.69	21.75	21.61	22.9	0.0	
40	QPSK	216	0	21.68	21.72	21.65	22.9	0.1	

n41 Ant 1 ECI9									
BW [MHz]	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	QPSK	1	1	18.69	18.76	18.65	20.3	0.0	
100	QPSK	135	69	18.61	18.64	18.59	20.3	0.0	
100	QPSK	270	0	18.49	18.60	18.54	20.3	0.0	

n66 Ant 2 ECI9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	13.25	13.38	13.35	14.4	0.0	
40	QPSK	108	54	13.13	13.22	13.14	14.4	0.0	
40	QPSK	216	0	13.24	13.31	13.25	14.4	1.0	

n41 Ant 2 ECI9									
BW [MHz]	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	QPSK	1	1	13.53	13.54	13.42	14.7	0.0	
100	QPSK	135	69	13.29	13.48	13.36	14.7	0.0	
100	QPSK	270	0	13.30	13.32	13.26	14.7	0.0	

n66 Ant 3 ECI9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	16.50	16.53	16.52	17.8	0.0	
40	QPSK	108	54	16.20	16.28	16.23	17.8	0.0	
40	QPSK	216	0	16.31	16.34	16.33	17.8	1.0	

n41 Ant 3 ECI9									
BW [MHz]	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	QPSK	1	1	14.65	14.73	14.67	16.1	0.0	
100	QPSK	135	69	14.57	14.59	14.55	16.1	0.0	
100	QPSK	270	0	14.55	14.57	14.52	16.1	0.0	



Part270 n77 Ant 4 ECI9									
BW [MHz]	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	12.83	13.06	12.89	14.4	0.0	
100	PI/2 BPSK	1	137	12.79	13.06	12.80			
100	PI/2 BPSK	1	271	12.85	13.13	12.89			
100	PI/2 BPSK	135	0	12.75	13.05	12.82	14.4	0.0	
100	PI/2 BPSK	135	69	12.74	13.15	12.77	14.4	0.0	
100	PI/2 BPSK	135	138	12.89	13.10	12.83	14.4	0.0	
100	PI/2 BPSK	270	0	12.71	12.94	12.94			
100	QPSK	1	1	12.93	13.21	12.93			
100	QPSK	1	137	12.77	13.13	12.79	14.4	0.0	
100	QPSK	1	271	12.87	13.15	12.82			
100	QPSK	135	0	12.84	13.16	12.89	14.4	0.0	
100	QPSK	135	69	12.79	13.19	12.88	14.4	0.0	
100	QPSK	135	138	12.84	13.11	12.90	14.4	0.0	
100	QPSK	270	0	12.80	13.03	12.93			
100	16QAM	1	1	12.95	12.96	12.89	14.4	0.0	
100	64QAM	1	1	12.84	12.97	12.96	14.4	0.0	
100	256QAM	1	1	12.85	13.06	13.05	14.4	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	12.83	13.18	12.83	14.4	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	12.92	13.15	12.82	14.4	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	12.87	13.20	12.91	14.4	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	12.88	13.15	12.84	14.4	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	12.90	13.18	12.85	14.4	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	12.92	13.17	12.81	14.4	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	12.83	13.18	12.88	14.4	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	12.89	13.10	12.88	14.4	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	12.89	13.11	12.92	14.4	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	12.82	13.14	12.84	14.4	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	12.89	13.11	12.92	14.4	0.0	

Part270 n78 Ant 4 ECI9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		12.94				
100	PI/2 BPSK	1	137		12.89		14.4	0.0	
100	PI/2 BPSK	1	271		12.85				
100	PI/2 BPSK	135	0		12.77		14.4	0.0	
100	PI/2 BPSK	135	69		12.84		14.4	0.0	
100	PI/2 BPSK	135	138		12.81		14.4	0.0	
100	PI/2 BPSK	270	0		12.94				
100	QPSK	1	1		13.02				
100	QPSK	1	137		12.83		14.4	0.0	
100	QPSK	1	271		13.00				
100	QPSK	135	0		12.87		14.4	0.0	
100	QPSK	135	69		12.92		14.4	0.0	
100	QPSK	135	138		12.83		14.4	0.0	
100	QPSK	270	0		12.93				
100	16QAM	1	1		12.46		14.4	0.0	
100	64QAM	1	1		12.48		14.4	0.0	
100	256QAM	1	1		12.50		14.4	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	12.87	13.00	12.91	14.4	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	12.97	12.92	13.00	14.4	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	12.90	12.95	12.95	14.4	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	12.92	12.92	12.90	14.4	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	12.92	12.98	12.93	14.4	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	12.90	12.94	13.00	14.4	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	12.94	12.91	12.88	14.4	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	12.97	12.99	12.92	14.4	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	12.92	12.91	12.88	14.4	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	12.93	12.94	12.97	14.4	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	12.90	13.00	12.91	14.4	0.0	



Part270 n77 Ant 6 ECI9									
BW [MHz]	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	13.87	14.01	13.62			
100	PI/2 BPSK	1	137	13.78	13.98	13.55	15.2	0.0	
100	PI/2 BPSK	1	271	13.80	13.96	13.70			
100	PI/2 BPSK	135	0	13.66	13.79	13.49	15.2	0.0	
100	PI/2 BPSK	135	69	13.76	13.83	13.63	15.2	0.0	
100	PI/2 BPSK	135	138	13.65	13.74	13.58	15.2	0.0	
100	PI/2 BPSK	270	0	13.74	13.80	13.65			
100	QPSK	1	1	13.91	14.02	13.76			
100	QPSK	1	137	13.93	14.04	13.73	15.2	0.0	
100	QPSK	1	271	13.91	14.01	13.66			
100	QPSK	135	0	13.74	13.87	13.59	15.2	0.0	
100	QPSK	135	69	13.83	13.92	13.73	15.2	0.0	
100	QPSK	135	138	13.75	13.90	13.65	15.2	0.0	
100	QPSK	270	0	13.72	13.84	13.69	15.2	0.0	
100	16QAM	1	1	13.56	13.60	13.58	15.2	0.0	
100	64QAM	1	1	13.54	13.65	13.55	15.2	0.0	
100	256QAM	1	1	13.99	14.00	14.02	15.2	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	13.71	13.86	13.61	15.2	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	13.73	13.88	13.60	15.2	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	13.79	13.85	13.64	15.2	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	13.79	13.91	13.63	15.2	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	13.79	13.85	13.56	15.2	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	13.75	13.88	13.57	15.2	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	13.74	13.82	13.64	15.2	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	13.74	13.87	13.61	15.2	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	13.68	13.91	13.56	15.2	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	13.71	13.88	13.61	15.2	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	13.77	13.90	13.63	15.2	0.0	

Part270 n78 Ant 6 ECI9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		13.84				
100	PI/2 BPSK	1	137		13.92		15.2	0.0	
100	PI/2 BPSK	1	271		13.93				
100	PI/2 BPSK	135	0		13.74		15.2	0.0	
100	PI/2 BPSK	135	69		13.69		15.2	0.0	
100	PI/2 BPSK	135	138		13.66		15.2	0.0	
100	PI/2 BPSK	270	0		13.68				
100	QPSK	1	1		13.96				
100	QPSK	1	137		13.95		15.2	0.0	
100	QPSK	1	271		13.88				
100	QPSK	135	0		13.74		15.2	0.0	
100	QPSK	135	69		13.88		15.2	0.0	
100	QPSK	135	138		13.78		15.2	0.0	
100	QPSK	270	0		13.78		15.2	0.0	
100	16QAM	1	1		13.61		15.2	0.0	
100	64QAM	1	1		13.41		15.2	0.0	
100	256QAM	1	1		13.92		15.2	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		13.68	13.84	13.41	15.2	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		13.65	13.78	13.48	15.2	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		13.68	13.82	13.43	15.2	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		13.64	13.84	13.45	15.2	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		13.60	13.80	13.43	15.2	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		13.67	13.84	13.48	15.2	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		13.70	13.82	13.41	15.2	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1		13.67	13.64	13.46	15.2	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		13.61	13.81	13.50	15.2	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		13.71	13.82	13.50	15.2	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		13.61	13.75	13.52	15.2	0.0



Part270 n77 Ant 3 ECI9									
BW [MHz]	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	16.51	16.61	16.45	18.1	0.0	
100	PI/2 BPSK	1	137	16.41	16.53	16.49			
100	PI/2 BPSK	1	271	16.37	16.48	16.26			
100	PI/2 BPSK	135	0	16.40	16.50	16.42	18.1	0.0	
100	PI/2 BPSK	135	69	16.43	16.52	16.42	18.1	0.0	
100	PI/2 BPSK	135	138	16.26	16.38	16.34	18.1	0.0	
100	PI/2 BPSK	270	0	16.39	16.44	16.32			
100	QPSK	1	1	16.61	16.72	16.62			
100	QPSK	1	137	16.43	16.56	16.52	18.1	0.0	
100	QPSK	1	271	16.37	16.50	16.49			
100	QPSK	135	0	16.43	16.49	16.49	18.1	0.0	
100	QPSK	135	69	16.44	16.55	16.53	18.1	0.0	
100	QPSK	135	138	16.41	16.44	16.49			
100	QPSK	270	0	16.53	16.60	16.46	18.1	0.0	
100	16QAM	1	1	16.41	16.47	16.45	18.1	0.0	
100	64QAM	1	1	16.29	16.35	16.37	18.1	0.0	
100	256QAM	1	1	16.56	16.54	16.53	18.1	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	18.1	0.0	
90	QPSK	1	1	16.15	16.23	16.16	18.1	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	18.1	0.0	
80	QPSK	1	1	16.18	16.26	16.27	18.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3940	3945	18.1	0.0	
70	QPSK	1	1	16.16	16.19	16.21	18.1	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	18.1	0.0	
60	QPSK	1	1	16.13	16.19	16.20	18.1	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	18.1	0.0	
50	QPSK	1	1	16.16	16.25	16.27	18.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	18.1	0.0	
40	QPSK	1	1	16.15	16.22	16.18	18.1	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	18.1	0.0	
30	QPSK	1	1	16.13	16.21	16.18	18.1	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5	18.1	0.0	
25	QPSK	1	1	16.15	16.25	16.26	18.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	18.1	0.0	
20	QPSK	1	1	16.16	16.19	16.26	18.1	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51	18.1	0.0	
15	QPSK	1	1	16.15	16.27	16.24	18.1	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975	18.1	0.0	
10	QPSK	1	1	16.16	16.26	16.17	18.1	0.0	

Part270 n78 Ant 3 ECI9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		16.50				
100	PI/2 BPSK	1	137		16.40		18.1	0.0	
100	PI/2 BPSK	1	271		16.41				
100	PI/2 BPSK	135	0		16.33		18.1	0.0	
100	PI/2 BPSK	135	69		16.53		18.1	0.0	
100	PI/2 BPSK	135	138		16.29		18.1	0.0	
100	PI/2 BPSK	270	0		16.33				
100	QPSK	1	1		16.56				
100	QPSK	1	137		16.45		18.1	0.0	
100	QPSK	1	271		16.50				
100	QPSK	135	0		16.43		18.1	0.0	
100	QPSK	135	69		16.48		18.1	0.0	
100	QPSK	135	138		16.36				
100	QPSK	270	0		16.45		18.1	0.0	
100	16QAM	1	1		16.45		18.1	0.0	
100	64QAM	1	1		16.28		18.1	0.0	
100	256QAM	1	1		16.44		18.1	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	18.1	0.0	
90	QPSK	1	1	16.15	16.16	16.15	18.1	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	18.1	0.0	
80	QPSK	1	1	16.13	16.15	16.15	18.1	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	18.1	0.0	
70	QPSK	1	1	16.16	16.20	16.13	18.1	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	18.1	0.0	
60	QPSK	1	1	16.16	16.20	16.22	18.1	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	18.1	0.0	
50	QPSK	1	1	16.16	16.18	16.22	18.1	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	18.1	0.0	
40	QPSK	1	1	16.18	16.12	16.12	18.1	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	18.1	0.0	
30	QPSK	1	1	16.15	16.12	16.19	18.1	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5	18.1	0.0	
25	QPSK	1	1	16.13	16.17	16.12	18.1	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	18.1	0.0	
20	QPSK	1	1	16.17	16.20	16.16	18.1	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	18.1	0.0	
15	QPSK	1	1	16.13	16.11	16.17	18.1	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	18.1	0.0	
10	QPSK	1	1	16.15	16.15	16.21	18.1	0.0	



Part270 n77 Ant 8 ECI9									
BW [MHz]	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	14.24	14.36	14.21			
100	PI/2 BPSK	1	137	14.27	14.33	14.10	15.1	0.0	
100	PI/2 BPSK	1	271	14.15	14.34	14.11			
100	PI/2 BPSK	135	0	14.21	14.35	14.16	15.1	0.0	
100	PI/2 BPSK	135	69	14.25	14.36	14.06	15.1	0.0	
100	PI/2 BPSK	135	138	14.22	14.31	14.19	15.1	0.0	
100	PI/2 BPSK	270	0	14.13	14.17	14.01			
100	QPSK	1	1	14.30	14.50	14.13			
100	QPSK	1	137	14.25	14.42	14.19	15.1	0.0	
100	QPSK	1	271	14.22	14.42	14.24			
100	QPSK	135	0	14.21	14.24	14.16	15.1	0.0	
100	QPSK	135	69	14.23	14.44	14.15	15.1	0.0	
100	QPSK	135	138	14.20	14.38	14.21	15.1	0.0	
100	QPSK	270	0	14.11	14.28	14.06	15.1	0.0	
100	16QAM	1	1	14.04	14.16	14.07	15.1	0.0	
100	64QAM	1	1	14.03	14.13	14.09	15.1	0.0	
100	256QAM	1	1	14.45	14.48	14.47	15.1	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	14.15	14.29	14.05	15.1	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	14.16	14.35	13.99	15.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3940	3945			
70	QPSK	1	1	14.17	14.30	13.97	15.1	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	14.17	14.32	13.99	15.1	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	14.26	14.33	14.03	15.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	14.16	14.29	13.98	15.1	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	14.21	14.32	14.02	15.1	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	14.15	14.33	14.01	15.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	14.16	14.33	14.02	15.1	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	14.21	14.30	14.07	15.1	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	14.24	14.27	14.00	15.1	0.0	

Part270 n78 Ant 8 ECI9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		14.28				
100	PI/2 BPSK	1	137		14.20		15.1	0.0	
100	PI/2 BPSK	1	271		14.24				
100	PI/2 BPSK	135	0		14.25		15.1	0.0	
100	PI/2 BPSK	135	69		14.30		15.1	0.0	
100	PI/2 BPSK	135	138		14.23		15.1	0.0	
100	PI/2 BPSK	270	0		14.14				
100	QPSK	1	1		14.34				
100	QPSK	1	137		14.32		15.1	0.0	
100	QPSK	1	271		14.30				
100	QPSK	135	0		14.30		15.1	0.0	
100	QPSK	135	69		14.32		15.1	0.0	
100	QPSK	135	138		14.27		15.1	0.0	
100	QPSK	270	0		14.30		15.1	0.0	
100	16QAM	1	1		13.98		15.1	0.0	
100	64QAM	1	1		14.06		15.1	0.0	
100	256QAM	1	1		14.30		15.1	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	14.06	14.30	13.92	15.1	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	14.10	14.24	13.88	15.1	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3750	3765			
70	QPSK	1	1	14.09	14.33	13.93	15.1	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	14.11	14.30	13.85	15.1	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	14.06	14.28	13.89	15.1	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	14.09	14.24	13.86	15.1	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	14.14	14.30	13.92	15.1	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	14.09	14.29	13.89	15.1	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	14.05	14.24	13.88	15.1	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	14.10	14.33	13.93	15.1	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	14.05	14.31	13.88	15.1	0.0	



Reduced Power Mode for ECI10

n5 Ant 0 ECI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	21.81	21.87	21.85	23.1	0.0	
20	QPSK	50	28	21.77	21.84	21.76	23.1	0.0	
20	QPSK	100	0	21.66	21.74	21.69	23.1	0.1	

n66 Ant 0 ECI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	17.83	17.86	17.73	19.1	0.0	
40	QPSK	108	54	17.75	17.77	17.69	19.1	0.0	
40	QPSK	216	0	17.70	17.75	17.67	19.1	1.0	

n41 Ant 0 ECI10									
BW [MHz]	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	QPSK	1	1	18.31	18.37	18.35	19.7	0.0	
100	QPSK	135	69	18.15	18.28	18.10	19.7	0.0	
100	QPSK	270	0	18.11	18.14	18.13	19.7	0.0	

n5 Ant 1 ECI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	22.88	22.94	22.91	24.0	0.0	
20	QPSK	50	28	22.76	22.80	22.78	24.0	0.0	
20	QPSK	100	0	21.87	21.91	21.90	23.0	0.0	

n66 Ant 1 ECI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	16.68	16.71	16.70	17.6	0.0	
40	QPSK	108	54	16.61	16.66	16.63	17.6	0.0	
40	QPSK	216	0	16.40	16.42	16.38	17.6	0.0	

n41 Ant 1 ECI10									
BW [MHz]	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	QPSK	1	1	18.18	18.28	18.14	19.3	0.0	
100	QPSK	135	69	18.11	18.15	18.07	19.3	0.0	
100	QPSK	270	0	17.90	18.07	17.95	19.3	0.0	

n66 Ant 2 ECI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	14.07	14.21	14.17	15.6	0.0	
40	QPSK	108	54	13.86	14.03	13.92	15.6	0.0	
40	QPSK	216	0	14.08	14.09	14.06	15.6	0.0	

n41 Ant 2 ECI10									
BW [MHz]	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	QPSK	1	1	13.54	13.58	13.53	14.7	0.0	
100	QPSK	135	69	13.34	13.52	13.42	14.7	0.0	
100	QPSK	270	0	13.40	13.41	13.38	14.7	0.0	

n66 Ant 3 ECI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	19.49	19.56	19.50	20.9	0.0	
40	QPSK	108	54	19.31	19.40	19.37	20.9	0.0	
40	QPSK	216	0	19.31	19.43	19.34	20.9	1.0	

n41 Ant 3 ECI10									
BW [MHz]	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	QPSK	1	1	15.19	15.29	15.23	16.1	0.0	
100	QPSK	135	69	15.10	15.20	15.14	16.1	0.0	
100	QPSK	270	0	15.04	15.18	15.11	16.1	0.0	



Part270 n77 Ant 4 ECI10									
BW [MHz]	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	13.75	13.91	13.79	15.4	0.0	
100	PI/2 BPSK	1	137	13.81	13.93	13.84			
100	PI/2 BPSK	1	271	13.81	13.81	13.84			
100	PI/2 BPSK	135	0	13.86	13.91	13.76	15.4	0.0	
100	PI/2 BPSK	135	69	13.79	13.83	13.81	15.4	0.0	
100	PI/2 BPSK	135	138	13.83	13.91	13.76	15.4	0.0	
100	PI/2 BPSK	270	0	13.82	13.85	13.80			
100	QPSK	1	1	13.95	14.01	13.96	15.4	0.0	
100	QPSK	1	137	13.84	13.88	13.85			
100	QPSK	1	271	13.81	13.85	13.80			
100	QPSK	135	0	13.85	13.90	13.77	15.4	0.0	
100	QPSK	135	69	13.81	13.97	13.93	15.4	0.0	
100	QPSK	135	138	13.84	13.90	13.81	15.4	0.0	
100	QPSK	270	0	13.89	13.95	13.88	15.4	0.0	
100	16QAM	1	1	13.80	13.85	13.75	15.4	0.0	
100	64QAM	1	1	13.83	13.90	13.84	15.4	0.0	
100	256QAM	1	1	13.79	13.86	13.85	15.4	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	15.4	0.0	
90	QPSK	1	1	13.82	13.85	13.85	15.4	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	15.4	0.0	
80	QPSK	1	1	13.79	13.87	13.84	15.4	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945	15.4	0.0	
70	QPSK	1	1	13.80	13.89	13.88	15.4	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	15.4	0.0	
60	QPSK	1	1	13.77	13.93	13.83	15.4	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	15.4	0.0	
50	QPSK	1	1	13.83	13.84	13.85	15.4	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	15.4	0.0	
40	QPSK	1	1	13.85	13.91	13.86	15.4	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	15.4	0.0	
30	QPSK	1	1	13.79	13.92	13.85	15.4	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5	15.4	0.0	
25	QPSK	1	1	13.87	13.87	13.82	15.4	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	15.4	0.0	
20	QPSK	1	1	13.86	13.91	13.80	15.4	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51	15.4	0.0	
15	QPSK	1	1	13.86	13.88	13.83	15.4	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975	15.4	0.0	
10	QPSK	1	1	13.78	13.87	13.84	15.4	0.0	

Part270 n78 Ant 4 ECI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		13.83		15.4	0.0	
100	PI/2 BPSK	1	137		13.82				
100	PI/2 BPSK	1	271		13.78				
100	PI/2 BPSK	135	0		13.77		15.4	0.0	
100	PI/2 BPSK	135	69		13.76		15.4	0.0	
100	PI/2 BPSK	135	138		13.82		15.4	0.0	
100	PI/2 BPSK	270	0		13.79				
100	QPSK	1	1		13.98		15.4	0.0	
100	QPSK	1	137		13.85				
100	QPSK	1	271		13.82				
100	QPSK	135	0		13.77		15.4	0.0	
100	QPSK	135	69		13.94		15.4	0.0	
100	QPSK	135	138		13.86		15.4	0.0	
100	QPSK	270	0		13.84		15.4	0.0	
100	16QAM	1	1		13.73		15.4	0.0	
100	64QAM	1	1		13.78		15.4	0.0	
100	256QAM	1	1		13.78		15.4	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	15.4	0.0	
90	QPSK	1	1	13.74	13.78	13.74	15.4	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	15.4	0.0	
80	QPSK	1	1	13.72	13.74	13.73	15.4	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	15.4	0.0	
70	QPSK	1	1	13.69	13.77	13.75	15.4	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	15.4	0.0	
60	QPSK	1	1	13.71	13.74	13.75	15.4	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	15.4	0.0	
50	QPSK	1	1	13.69	13.73	13.76	15.4	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	15.4	0.0	
40	QPSK	1	1	13.79	13.76	13.74	15.4	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	15.4	0.0	
30	QPSK	1	1	13.75	13.72	13.78	15.4	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5	15.4	0.0	
25	QPSK	1	1	13.76	13.76	13.82	15.4	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	15.4	0.0	
20	QPSK	1	1	13.71	13.76	13.75	15.4	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	15.4	0.0	
15	QPSK	1	1	13.75	13.80	13.78	15.4	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	15.4	0.0	
10	QPSK	1	1	13.79	13.78	13.78	15.4	0.0	



Part270 n77 Ant 6 ECI10									
BW [MHz]	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	14.15	14.15	14.13			
100	PI/2 BPSK	1	137	14.18	14.18	14.17	15.6	0.0	
100	PI/2 BPSK	1	271	14.17	14.21	14.17			
100	PI/2 BPSK	135	0	14.06	14.22	14.11	15.6	0.0	
100	PI/2 BPSK	135	69	14.14	14.25	14.15	15.6	0.0	
100	PI/2 BPSK	135	138	14.09	14.16	14.09	15.6	0.0	
100	PI/2 BPSK	270	0	14.11	14.25	14.15			
100	QPSK	1	1	14.28	14.35	14.32			
100	QPSK	1	137	14.18	14.24	14.20	15.6	0.0	
100	QPSK	1	271	14.17	14.17	14.18			
100	QPSK	135	0	14.13	14.17	14.14	15.6	0.0	
100	QPSK	135	69	14.15	14.31	14.20	15.6	0.0	
100	QPSK	135	138	14.17	14.21	14.10	15.6	0.0	
100	QPSK	270	0	14.20	14.28	14.23			
100	16QAM	1	1	14.14	14.23	14.14	15.6	0.0	
100	64QAM	1	1	14.13	14.23	14.21	15.6	0.0	
100	256QAM	1	1	14.14	14.20	14.11	15.6	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	14.18	14.17	14.18	15.6	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	14.16	14.22	14.09	15.6	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3840	3945			
70	QPSK	1	1	14.14	14.20	14.11	15.6	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	14.13	14.25	14.11	15.6	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	14.16	14.17	14.10	15.6	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	14.08	14.24	14.15	15.6	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	14.16	14.18	14.14	15.6	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	14.06	14.24	14.20	15.6	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	14.08	14.22	14.16	15.6	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	14.07	14.20	14.17	15.6	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	14.13	14.22	14.11	15.6	0.0	

Part270 n78 Ant 6 ECI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		14.03				
100	PI/2 BPSK	1	137		14.06		15.6	0.0	
100	PI/2 BPSK	1	271		14.15				
100	PI/2 BPSK	135	0		14.10		15.6	0.0	
100	PI/2 BPSK	135	69		14.14		15.6	0.0	
100	PI/2 BPSK	135	138		14.04		15.6	0.0	
100	PI/2 BPSK	270	0		14.20				
100	QPSK	1	1		14.29				
100	QPSK	1	137		14.12		15.6	0.0	
100	QPSK	1	271		14.14				
100	QPSK	135	0		14.09		15.6	0.0	
100	QPSK	135	69		14.22		15.6	0.0	
100	QPSK	135	138		14.19		15.6	0.0	
100	QPSK	270	0		14.21				
100	16QAM	1	1		14.19		15.6	0.0	
100	64QAM	1	1		14.09		15.6	0.0	
100	256QAM	1	1		14.13		15.6	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	14.17	14.25	14.19	15.6	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	14.16	14.20	14.19	15.6	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3750	3765			
70	QPSK	1	1	14.13	14.18	14.19	15.6	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	14.07	14.20	14.20	15.6	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	14.12	14.23	14.20	15.6	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	14.11	14.15	14.15	15.6	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	14.07	14.25	14.16	15.6	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	14.17	14.22	14.18	15.6	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	14.16	14.20	14.14	15.6	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	14.11	14.24	14.14	15.6	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	14.14	14.23	14.12	15.6	0.0	



Part270 n77 Ant 3 ECI10									
BW [MHz]	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	17.19	17.30	17.11			
100	PI/2 BPSK	1	137	17.16	17.22	17.17	18.1	0.0	
100	PI/2 BPSK	1	271	17.21	17.30	17.10			
100	PI/2 BPSK	135	0	17.23	17.25	17.15	18.1	0.0	
100	PI/2 BPSK	135	69	17.21	17.22	17.13	18.1	0.0	
100	PI/2 BPSK	135	138	17.23	17.27	17.16	18.1	0.0	
100	PI/2 BPSK	270	0	17.16	17.26	17.09			
100	QPSK	1	1	17.35	17.42	17.38			
100	QPSK	1	137	17.19	17.30	17.13	18.1	0.0	
100	QPSK	1	271	17.26	17.25	17.14			
100	QPSK	135	0	17.21	17.24	17.18	18.1	0.0	
100	QPSK	135	69	17.36	17.39	17.35	18.1	0.0	
100	QPSK	135	138	17.15	17.31	17.19	18.1	0.0	
100	QPSK	270	0	17.29	17.36	17.23			
100	16QAM	1	1	17.25	17.33	17.16	18.1	0.0	
100	64QAM	1	1	17.23	17.25	17.16	18.1	0.0	
100	256QAM	1	1	17.20	17.26	17.11	18.1	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.19	17.31	17.12	18.1	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	17.21	17.28	17.16	18.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3940	3945			
70	QPSK	1	1	17.23	17.25	17.11	18.1	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	17.15	17.31	17.10	18.1	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	17.23	17.25	17.10	18.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	17.15	17.26	17.12	18.1	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	17.26	17.25	17.16	18.1	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	17.22	17.30	17.20	18.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.22	17.29	17.13	18.1	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	17.19	17.32	17.15	18.1	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	17.16	17.26	17.21	18.1	0.0	

Part270 n78 Ant 3 ECI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		17.25				
100	PI/2 BPSK	1	137		17.11		18.1	0.0	
100	PI/2 BPSK	1	271		17.22				
100	PI/2 BPSK	135	0		17.17		18.1	0.0	
100	PI/2 BPSK	135	69		17.11		18.1	0.0	
100	PI/2 BPSK	135	138		17.23		18.1	0.0	
100	PI/2 BPSK	270	0		17.22				
100	QPSK	1	1		17.34				
100	QPSK	1	137		17.25		18.1	0.0	
100	QPSK	1	271		17.17				
100	QPSK	135	0		17.20		18.1	0.0	
100	QPSK	135	69		17.29		18.1	0.0	
100	QPSK	135	138		17.18		18.1	0.0	
100	QPSK	270	0		17.28				
100	16QAM	1	1		17.29		18.1	0.0	
100	64QAM	1	1		17.13		18.1	0.0	
100	256QAM	1	1		17.23		18.1	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	17.22	17.33	17.12	18.1	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	17.26	17.22	17.20	18.1	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	17.23	17.27	17.14	18.1	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	17.22	17.28	17.18	18.1	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	17.16	17.32	17.13	18.1	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	17.24	17.29	17.15	18.1	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	17.21	17.33	17.18	18.1	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	17.23	17.28	17.18	18.1	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	17.17	17.30	17.14	18.1	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	17.21	17.30	17.17	18.1	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	17.20	17.29	17.16	18.1	0.0	



Part270 n77 Ant 8 ECI10									
BW [MHz]	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	15.89	15.92	15.87	17.3	0.0	
100	PI/2 BPSK	1	137	15.81	15.89	15.89			
100	PI/2 BPSK	1	271	15.81	15.87	15.86			
100	PI/2 BPSK	135	0	15.86	15.92	15.89	17.3	0.0	
100	PI/2 BPSK	135	69	15.89	15.88	15.86	17.3	0.0	
100	PI/2 BPSK	135	138	15.86	15.88	15.86			
100	PI/2 BPSK	270	0	15.81	15.92	15.91	17.3	0.0	
100	QPSK	1	1	16.03	16.07	16.04			
100	QPSK	1	137	15.86	15.84	15.86	17.3	0.0	
100	QPSK	1	271	15.88	15.94	15.84			
100	QPSK	135	0	15.85	15.94	15.85	17.3	0.0	
100	QPSK	135	69	16.00	16.04	15.98	17.3	0.0	
100	QPSK	135	138	15.86	15.87	15.86			
100	QPSK	270	0	15.88	15.95	15.94	17.3	0.0	
100	16QAM	1	1	15.84	15.88	15.84	17.3	0.0	
100	64QAM	1	1	15.89	15.95	15.90	17.3	0.0	
100	256QAM	1	1	15.87	15.84	15.95	17.3	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.85	15.84	15.92	17.3	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	15.84	15.85	15.95	17.3	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.83	15.93	15.88	17.3	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.82	15.91	15.94	17.3	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.87	15.88	15.94	17.3	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	15.79	15.85	15.90	17.3	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	15.88	15.92	15.95	17.3	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	15.78	15.88	15.90	17.3	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.84	15.93	15.84	17.3	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.77	15.94	15.93	17.3	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.85	15.94	15.91	17.3	0.0	

Part270 n78 Ant 8 ECI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		15.86				
100	PI/2 BPSK	1	137		15.87		17.3	0.0	
100	PI/2 BPSK	1	271		15.81				
100	PI/2 BPSK	135	0		15.81		17.3	0.0	
100	PI/2 BPSK	135	69		15.82		17.3	0.0	
100	PI/2 BPSK	135	138		15.78				
100	PI/2 BPSK	270	0		15.84		17.3	0.0	
100	QPSK	1	1		16.02				
100	QPSK	1	137		15.83		17.3	0.0	
100	QPSK	1	271		15.86				
100	QPSK	135	0		15.91		17.3	0.0	
100	QPSK	135	69		15.96		17.3	0.0	
100	QPSK	135	138		15.81				
100	QPSK	270	0		15.92		17.3	0.0	
100	16QAM	1	1		15.85		17.3	0.0	
100	64QAM	1	1		15.92		17.3	0.0	
100	256QAM	1	1		15.81		17.3	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	15.79	15.90	15.88	17.3	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	15.86	15.89	15.84	17.3	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	15.84	15.90	15.83	17.3	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	15.86	15.93	15.86	17.3	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	15.85	15.94	15.95	17.3	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	15.88	15.89	15.93	17.3	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	15.85	15.91	15.83	17.3	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	15.88	15.92	15.94	17.3	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	15.88	15.93	15.84	17.3	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	15.86	15.90	15.85	17.3	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	15.80	15.84	15.93	17.3	0.0	



Full&Default Power Mode Other PA

n66 other PA Ant 3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	23.05	23.11	23.10	24.0	0.0
40	QPSK	108	54	22.80	22.85	22.82	24.0	0.0
40	QPSK	216	0	21.86	21.94	21.90	23.0	1.0

n41 other PA Ant 3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	21.14	21.24	21.19	22.0	0.0
100	QPSK	135	69	21.10	21.15	21.11	22.0	0.0
100	QPSK	270	0	21.09	21.13	21.12	22.0	0.0



Part270 n77 other PAAnt 6

BW [MHz]	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	20.69	20.79	20.48		
100	PI/2 BPSK	1	137	20.61	20.83	20.44	22.0	0.0
100	PI/2 BPSK	1	271	20.63	20.82	20.51		
100	PI/2 BPSK	135	0	20.50	20.64	20.30	22.0	0.0
100	PI/2 BPSK	135	69	20.53	20.64	20.51	22.0	0.0
100	PI/2 BPSK	135	138	20.48	20.60	20.42	22.0	0.0
100	PI/2 BPSK	270	0	20.54	20.62	20.51		
100	QPSK	1	1	20.75	20.89	20.57		
100	QPSK	1	137	20.72	20.87	20.53	22.0	0.0
100	QPSK	1	271	20.75	20.86	20.52		
100	QPSK	135	0	20.61	20.70	20.42	22.0	0.0
100	QPSK	135	69	20.63	20.74	20.54	22.0	0.0
100	QPSK	135	138	20.58	20.71	20.46	22.0	0.0
100	QPSK	270	0	20.57	20.67	20.53		
100	16QAM	1	1	20.38	20.42	20.41	22.0	0.0
100	64QAM	1	1	20.41	20.43	20.40	22.0	0.0
100	256QAM	1	1	19.46	19.54	19.51	20.5	1.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	20.64	20.77	20.49	22.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	20.72	20.79	20.54	22.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	20.70	20.77	20.52	22.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	20.71	20.80	20.45	22.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	20.61	20.81	20.53	22.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.66	20.79	20.51	22.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	20.68	20.79	20.48	22.0	0.0
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	20.61	20.83	20.51	22.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	20.61	20.78	20.45	22.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	20.62	20.79	20.45	22.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	20.66	20.85	20.53	22.0	0.0

Part270 n78 other PA Ant 6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		20.73			
100	PI/2 BPSK	1	137		20.80		22.0	0.0
100	PI/2 BPSK	1	271		20.74			
100	PI/2 BPSK	135	0		20.53		22.0	0.0
100	PI/2 BPSK	135	69		20.52		22.0	0.0
100	PI/2 BPSK	135	138		20.52		22.0	0.0
100	PI/2 BPSK	270	0		20.53			
100	QPSK	1	1		20.83			
100	QPSK	1	137		20.82		22.0	0.0
100	QPSK	1	271		20.74			
100	QPSK	135	0		20.57		22.0	0.0
100	QPSK	135	69		20.66		22.0	0.0
100	QPSK	135	138		20.80		22.0	0.0
100	QPSK	270	0		20.63			
100	16QAM	1	1		20.38		22.0	0.0
100	64QAM	1	1		20.29		22.0	0.0
100	256QAM	1	1		19.52		20.5	1.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	20.56	20.70	20.37	22.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	20.61	20.71	20.47	22.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	20.52	20.87	20.47	22.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	20.51	20.83	20.40	22.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	20.52	20.75	20.37	22.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.52	20.68	20.37	22.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	20.59	20.65	20.37	22.0	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	20.55	20.72	20.48	22.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	20.55	20.71	20.37	22.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	20.57	20.88	20.43	22.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	20.51	20.71	20.44	22.0	0.0



Reduced Power Mode for Other PA EC12

n66 other PA Ant 3 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				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	17.46	17.54	17.50	18.5	0.0
40	QPSK	108	54	17.24	17.30	17.22	18.5	0.0
40	QPSK	216	0	17.33	17.45	17.42	18.5	0.0

n41 other PA Ant 3 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				509202	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	15.95	16.01	15.97	16.8	0.0
100	QPSK	135	69	15.88	15.92	15.90	16.8	0.0
100	QPSK	270	0	15.82	15.89	15.84	16.8	0.0



Part270 n77 other PA Ant 6 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	13.41	13.45	13.14		
100	PI/2 BPSK	1	137	13.36	13.49	13.15	14.4	0.0
100	PI/2 BPSK	1	271	13.37	13.47	13.24		
100	PI/2 BPSK	135	0	13.14	13.39	13.10	14.4	0.0
100	PI/2 BPSK	135	69	13.26	13.33	13.25	14.4	0.0
100	PI/2 BPSK	135	138	13.13	13.23	13.12	14.4	0.0
100	PI/2 BPSK	270	0	13.27	13.25	13.25		
100	QPSK	1	1	13.42	13.54	13.35		
100	QPSK	1	137	13.40	13.50	13.34	14.4	0.0
100	QPSK	1	271	13.45	13.52	13.38		
100	QPSK	135	0	13.27	13.35	13.29	14.4	0.0
100	QPSK	135	69	13.36	13.47	13.28	14.4	0.0
100	QPSK	135	138	13.24	13.38	13.26	14.4	0.0
100	QPSK	270	0	13.24	13.39	13.26		
100	16QAM	1	1	13.03	13.14	13.09	14.4	0.0
100	64QAM	1	1	13.07	13.17	13.05	14.4	0.0
100	256QAM	1	1	13.42	13.49	13.36	14.4	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	13.35	13.52	13.31	14.4	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	13.32	13.48	13.25	14.4	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	13.37	13.50	13.24	14.4	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	13.38	13.45	13.31	14.4	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	13.37	13.53	13.33	14.4	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	13.38	13.43	13.29	14.4	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	13.42	13.51	13.29	14.4	0.0
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	13.38	13.43	13.30	14.4	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	13.40	13.51	13.32	14.4	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	13.31	13.43	13.24	14.4	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	13.31	13.48	13.30	14.4	0.0

Part270 n78 other PA Ant 6 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	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		13.27			
100	PI/2 BPSK	1	137		13.30		14.4	0.0
100	PI/2 BPSK	1	271		13.25			
100	PI/2 BPSK	135	0		12.98		14.4	0.0
100	PI/2 BPSK	135	69		12.99		14.4	0.0
100	PI/2 BPSK	135	138		13.03		14.4	0.0
100	PI/2 BPSK	270	0		13.09			
100	QPSK	1	1		13.35			
100	QPSK	1	137		13.34		14.4	0.0
100	QPSK	1	271		13.28			
100	QPSK	135	0		13.02		14.4	0.0
100	QPSK	135	69		13.19		14.4	0.0
100	QPSK	135	138		13.09		14.4	0.0
100	QPSK	270	0		13.13			
100	16QAM	1	1		12.83		14.4	0.0
100	64QAM	1	1		12.74		14.4	0.0
100	256QAM	1	1		13.32		14.4	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	13.02	13.24	12.87	14.4	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3760	3760.02		
80	QPSK	1	1	13.05	13.26	12.83	14.4	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	13.08	13.19	12.83	14.4	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3760	3770.01		
60	QPSK	1	1	13.10	13.21	12.83	14.4	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3760	3775.02		
50	QPSK	1	1	13.03	13.25	12.82	14.4	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3760	3780		
40	QPSK	1	1	13.10	13.25	12.91	14.4	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3760	3785.01		
30	QPSK	1	1	13.05	13.21	12.91	14.4	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3760	3787.5		
25	QPSK	1	1	13.05	13.14	12.90	14.4	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3760	3790.02		
20	QPSK	1	1	13.11	13.16	12.89	14.4	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3760	3792.51		
15	QPSK	1	1	13.07	13.23	12.84	14.4	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3760	3795		
10	QPSK	1	1	13.03	13.20	12.90	14.4	0.0



Reduced Power Mode for Other PA ECI3

n66 other PA Ant 3 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				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	20.96	20.95	20.82	21.6	0.0
40	QPSK	108	54	20.28	20.32	20.31	21.6	0.0
40	QPSK	216	0	20.25	20.30	20.26	21.6	0.0

n41 other PA Ant 3 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	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	19.76	19.79	19.74	21.1	0.0
100	QPSK	135	69	19.83	19.76	19.85	21.1	0.0
100	QPSK	270	0	19.89	19.74	19.89	21.1	0.0



Part270 n77 other PA Ant 6 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	17.10	17.20	16.94	18.4	0.0
100	PI/2 BPSK	1	137	17.10	17.17	16.87		
100	PI/2 BPSK	1	271	17.11	17.25	16.91		
100	PI/2 BPSK	135	0	16.95	17.04	16.75	18.4	0.0
100	PI/2 BPSK	135	69	17.00	17.09	17.00	18.4	0.0
100	PI/2 BPSK	135	138	16.90	17.02	16.84	18.4	0.0
100	PI/2 BPSK	270	0	16.98	17.10	16.90		
100	QPSK	1	1	17.19	17.27	17.16	18.4	0.0
100	QPSK	1	137	17.11	17.25	16.94		
100	QPSK	1	271	17.22	17.26	17.12		
100	QPSK	135	0	17.07	17.16	17.08	18.4	0.0
100	QPSK	135	69	17.12	17.19	17.07	18.4	0.0
100	QPSK	135	138	17.00	17.12	17.05		
100	QPSK	270	0	17.00	17.15	17.03	18.4	0.0
100	16QAM	1	1	17.08	17.06	17.11	18.4	0.0
100	64QAM	1	1	17.03	17.14	17.02	18.4	0.0
100	256QAM	1	1	17.16	17.20	17.17	18.4	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.09	17.22	16.95	18.4	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.17	17.24	17.03	18.4	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	17.14	17.23	16.99	18.4	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.11	17.22	16.97	18.4	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	17.14	17.24	16.98	18.4	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.14	17.24	16.98	18.4	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.13	17.26	17.02	18.4	0.0
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	17.12	17.25	16.96	18.4	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.14	17.24	17.02	18.4	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	17.18	17.23	16.97	18.4	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	17.08	17.26	17.01	18.4	0.0

Part270 n78 other PA Ant 6 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	3750	3750		
100	PI/2 BPSK	1	1		17.18		18.4	0.0
100	PI/2 BPSK	1	137		17.17			
100	PI/2 BPSK	1	271		17.16			
100	PI/2 BPSK	135	0		17.02		18.4	0.0
100	PI/2 BPSK	135	69		17.06		18.4	0.0
100	PI/2 BPSK	135	138		17.01			
100	PI/2 BPSK	270	0		17.04		18.4	0.0
100	QPSK	1	1		17.25		18.4	0.0
100	QPSK	1	137		17.23			
100	QPSK	1	271		17.16			
100	QPSK	135	0		17.08		18.4	0.0
100	QPSK	135	69		17.20		18.4	0.0
100	QPSK	135	138		17.08			
100	QPSK	270	0		17.10		18.4	0.0
100	16QAM	1	1		17.07		18.4	0.0
100	64QAM	1	1		17.15		18.4	0.0
100	256QAM	1	1		17.12		18.4	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.08	17.19	16.86	18.4	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.05	17.22	16.91	18.4	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	17.08	17.20	16.89	18.4	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	17.11	17.21	16.84	18.4	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	17.06	17.16	16.90	18.4	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.04	17.18	16.90	18.4	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	17.07	17.18	16.89	18.4	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	17.04	17.16	16.84	18.4	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.10	17.18	16.82	18.4	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	17.06	17.23	16.88	18.4	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	17.04	17.20	16.90	18.4	0.0



Reduced Power Mode for Other PA EC15

n66 other PA Ant 3 EC15								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	23.05	23.11	23.10	24.0	0.0
40	QPSK	108	54	22.80	22.85	22.82	24.0	0.0
40	QPSK	216	0	21.86	21.94	21.90	23.0	1.0

n41 other PA Ant 3 EC15								
BW [MHz]	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	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	20.34	20.40	20.36	22.0	0.0
100	QPSK	135	69	20.35	20.38	20.33	22.0	0.0
100	QPSK	270	0	20.23	20.33	20.21	22.0	0.0



Part270 n77 other PA Ant 6 ECI5

BW [MHz]	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	16.56	16.60	16.55		
100	PI/2 BPSK	1	137	16.56	16.61	16.59	18.1	0.0
100	PI/2 BPSK	1	271	16.58	16.61	16.55		
100	PI/2 BPSK	135	0	16.60	16.59	16.57	18.1	0.0
100	PI/2 BPSK	135	69	16.61	16.64	16.54	18.1	0.0
100	PI/2 BPSK	135	138	16.55	16.65	16.55	18.1	0.0
100	PI/2 BPSK	270	0	16.55	16.64	16.54		
100	QPSK	1	1	16.71	16.75	16.70		
100	QPSK	1	137	16.56	16.56	16.59	18.1	0.0
100	QPSK	1	271	16.61	16.58	16.56		
100	QPSK	135	0	16.52	16.59	16.62	18.1	0.0
100	QPSK	135	69	16.65	16.70	16.61	18.1	0.0
100	QPSK	135	138	16.50	16.59	16.58		
100	QPSK	270	0	16.61	16.65	16.64	18.1	0.0
100	16QAM	1	1	16.59	16.63	16.54	18.1	0.0
100	64QAM	1	1	16.62	16.58	16.54	18.1	0.0
100	256QAM	1	1	16.50	16.54	16.56	18.1	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	16.51	16.57	16.53	18.1	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	16.55	16.64	16.58	18.1	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	16.58	16.58	16.62	18.1	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.50	16.56	16.55	18.1	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	16.58	16.60	16.63	18.1	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	16.60	16.60	16.64	18.1	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.61	16.60	16.53	18.1	0.0
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	16.55	16.54	16.57	18.1	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.55	16.65	16.63	18.1	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	16.55	16.59	16.61	18.1	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	16.52	16.61	16.57	18.1	0.0

Part270 n78 other PA Ant 6 ECI5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		16.51			
100	PI/2 BPSK	1	137		16.48		18.1	0.0
100	PI/2 BPSK	1	271		16.51			
100	PI/2 BPSK	135	0		16.55		18.1	0.0
100	PI/2 BPSK	135	69		16.55		18.1	0.0
100	PI/2 BPSK	135	138		16.52			
100	PI/2 BPSK	270	0		16.54		18.1	0.0
100	QPSK	1	1		16.68			
100	QPSK	1	137		16.44		18.1	0.0
100	QPSK	1	271		16.51			
100	QPSK	135	0		16.47		18.1	0.0
100	QPSK	135	69		16.57		18.1	0.0
100	QPSK	135	138		16.51			
100	QPSK	270	0		16.55		18.1	0.0
100	16QAM	1	1		16.50		18.1	0.0
100	64QAM	1	1		16.48		18.1	0.0
100	256QAM	1	1		16.49		18.1	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	16.39	16.49	16.51	18.1	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	16.39	16.48	16.41	18.1	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	16.47	16.47	16.46	18.1	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	16.41	16.54	16.48	18.1	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	16.40	16.47	16.44	18.1	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	16.41	16.45	16.48	18.1	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	16.38	16.54	16.48	18.1	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	16.42	16.45	16.51	18.1	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	16.43	16.48	16.43	18.1	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	16.48	16.54	16.42	18.1	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	16.46	16.49	16.42	18.1	0.0



Reduced Power Mode for Other PA ECI6

n66 other PA Ant 3 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				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	21.57	21.61	21.57	22.9	0.0
40	QPSK	108	54	21.35	21.37	21.30	22.9	0.0
40	QPSK	216	0	21.31	21.40	21.38	22.9	0.1

n41 other PA Ant 3 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	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	19.30	19.32	19.28	20.4	0.0
100	QPSK	135	69	19.25	19.27	19.26	20.4	0.0
100	QPSK	270	0	19.16	19.22	19.21	20.4	0.0



Part270 n77 other PA Ant 6 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	19.08	19.13	18.78		
100	PI/2 BPSK	1	137	18.90	19.12	18.75	20.1	0.0
100	PI/2 BPSK	1	271	18.97	19.18	18.85		
100	PI/2 BPSK	135	0	18.89	19.03	18.66	20.1	0.0
100	PI/2 BPSK	135	69	18.89	18.96	18.85	20.1	0.0
100	PI/2 BPSK	135	138	18.87	18.95	18.78	20.1	0.0
100	PI/2 BPSK	270	0	18.84	18.94	18.90		
100	QPSK	1	1	19.04	19.20	18.91		
100	QPSK	1	137	19.05	19.18	18.89	20.1	0.0
100	QPSK	1	271	19.14	19.15	18.83		
100	QPSK	135	0	18.97	19.10	18.72	20.1	0.0
100	QPSK	135	69	19.00	19.11	18.87	20.1	0.0
100	QPSK	135	138	18.90	19.07	18.85	20.1	0.0
100	QPSK	270	0	18.93	19.05	18.82	20.1	0.0
100	16QAM	1	1	18.68	18.81	18.79	20.1	0.0
100	64QAM	1	1	18.70	18.82	18.76	20.1	0.0
100	256QAM	1	1	19.06	19.12	19.10	20.1	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.00	19.18	18.83	20.1	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.96	19.16	18.88	20.1	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	19.01	19.19	18.90	20.1	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.96	19.12	18.87	20.1	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.92	19.10	18.89	20.1	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.95	19.13	18.85	20.1	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.98	19.16	18.82	20.1	0.0
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	19.00	19.13	18.90	20.1	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.01	19.20	18.88	20.1	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	18.93	19.13	18.81	20.1	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	18.92	19.16	18.85	20.1	0.0

Part270 n78 other PA Ant 6 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	3750	3750		
100	PI/2 BPSK	1	1		19.04			
100	PI/2 BPSK	1	137		19.07		20.1	0.0
100	PI/2 BPSK	1	271		19.15			
100	PI/2 BPSK	135	0		18.87		20.1	0.0
100	PI/2 BPSK	135	69		18.90		20.1	0.0
100	PI/2 BPSK	135	138		18.91		20.1	0.0
100	PI/2 BPSK	270	0		18.87			
100	QPSK	1	1		19.19			
100	QPSK	1	137		19.15		20.1	0.0
100	QPSK	1	271		19.12			
100	QPSK	135	0		18.98		20.1	0.0
100	QPSK	135	69		19.03		20.1	0.0
100	QPSK	135	138		18.98		20.1	0.0
100	QPSK	270	0		19.03		20.1	0.0
100	16QAM	1	1		18.67		20.1	0.0
100	64QAM	1	1		18.58		20.1	0.0
100	256QAM	1	1		19.02		20.1	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	18.96	19.06	18.77	20.1	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	18.97	19.08	18.76	20.1	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	18.92	19.13	18.80	20.1	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	19.01	19.05	18.78	20.1	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	18.92	19.04	18.77	20.1	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	18.91	19.10	18.81	20.1	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	18.94	19.12	18.75	20.1	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	19.00	19.08	18.77	20.1	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	18.92	19.08	18.77	20.1	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	19.00	19.12	18.75	20.1	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	18.96	19.05	18.74	20.1	0.0



Reduced Power Mode for Other PA EC19

n66 other PA Ant 3 EC19								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1793	1745	1760		
40	QPSK	1	1	16.90	16.53	16.52	17.8	0.0
40	QPSK	108	54	16.20	16.28	16.23	17.8	0.0
40	QPSK	216	0	16.31	16.34	16.33	17.8	1.0

n41 other PA Ant 3 EC19								
BW [MHz]	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	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	14.65	14.73	14.67	16.1	0.0
100	QPSK	135	69	14.57	14.59	14.55	16.1	0.0
100	QPSK	270	0	14.55	14.57	14.52	16.1	0.0



Part270 n77 other PA Ant 6 ECI9

BW [MHz]	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	13.87	14.01	13.62	15.2	0.0
100	PI/2 BPSK	1	137	13.78	13.98	13.55		
100	PI/2 BPSK	1	271	13.80	13.96	13.70		
100	PI/2 BPSK	135	0	13.66	13.79	13.49	15.2	0.0
100	PI/2 BPSK	135	69	13.76	13.83	13.63	15.2	0.0
100	PI/2 BPSK	135	138	13.65	13.74	13.58	15.2	0.0
100	PI/2 BPSK	270	0	13.74	13.80	13.65		
100	QPSK	1	1	13.91	14.02	13.76	15.2	0.0
100	QPSK	1	137	13.93	14.04	13.73		
100	QPSK	1	271	13.91	14.01	13.66		
100	QPSK	135	0	13.74	13.87	13.59	15.2	0.0
100	QPSK	135	69	13.83	13.92	13.73	15.2	0.0
100	QPSK	135	138	13.75	13.90	13.65	15.2	0.0
100	QPSK	270	0	13.72	13.84	13.69	15.2	0.0
100	16QAM	1	1	13.56	13.60	13.58	15.2	0.0
100	64QAM	1	1	13.54	13.65	13.55	15.2	0.0
100	256QAM	1	1	13.99	14.00	14.02	15.2	0.0
Channel				649668	650000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	13.71	13.86	13.61	15.2	0.0
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	13.73	13.88	13.60	15.2	0.0
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	13.79	13.85	13.64	15.2	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	13.79	13.91	13.63	15.2	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	13.79	13.85	13.56	15.2	0.0
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	13.75	13.88	13.57	15.2	0.0
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	13.74	13.82	13.64	15.2	0.0
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	13.74	13.87	13.61	15.2	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	13.68	13.91	13.56	15.2	0.0
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	13.71	13.88	13.61	15.2	0.0
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	13.77	13.90	13.63	15.2	0.0

Part270 n78 other PA Ant 6 ECI9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		13.84		15.2	0.0
100	PI/2 BPSK	1	137		13.92			
100	PI/2 BPSK	1	271		13.93			
100	PI/2 BPSK	135	0		13.74		15.2	0.0
100	PI/2 BPSK	135	69		13.69		15.2	0.0
100	PI/2 BPSK	135	138		13.66		15.2	0.0
100	PI/2 BPSK	270	0		13.68			
100	QPSK	1	1		13.96		15.2	0.0
100	QPSK	1	137		13.95			
100	QPSK	1	271		13.88			
100	QPSK	135	0		13.74		15.2	0.0
100	QPSK	135	69		13.88		15.2	0.0
100	QPSK	135	138		13.78		15.2	0.0
100	QPSK	270	0		13.78		15.2	0.0
100	16QAM	1	1		13.61		15.2	0.0
100	64QAM	1	1		13.41		15.2	0.0
100	256QAM	1	1		13.92		15.2	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	13.68	13.84	13.41	15.2	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	13.65	13.78	13.48	15.2	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	13.68	13.82	13.43	15.2	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	13.64	13.84	13.45	15.2	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	13.60	13.80	13.43	15.2	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	13.67	13.84	13.48	15.2	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	13.70	13.82	13.41	15.2	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	13.67	13.84	13.46	15.2	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	13.61	13.81	13.50	15.2	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	13.71	13.82	13.50	15.2	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	13.61	13.75	13.52	15.2	0.0



Reduced Power Mode for Other PA EC10

n66 other PA Ant 3 EC10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1793	1745	1760		
40	QPSK	1	1	19.49	19.56	19.50	20.9	0.0
40	QPSK	108	54	19.31	19.40	19.37	20.9	0.0
40	QPSK	216	0	19.31	19.43	19.34	20.9	1.0

n41 other PA Ant 3 EC10								
BW [MHz]	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	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	15.19	15.29	15.23	16.4	0.0
100	QPSK	135	69	15.10	15.20	15.14	16.4	0.0
100	QPSK	270	0	15.04	15.18	15.11	16.4	0.0



Part270 n77 other PA Ant 6 ECI10

BW [MHz]	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	14.15	14.15	14.13		
100	PI/2 BPSK	1	137	14.18	14.18	14.17	15.6	0.0
100	PI/2 BPSK	1	271	14.17	14.21	14.17		
100	PI/2 BPSK	135	0	14.06	14.22	14.11	15.6	0.0
100	PI/2 BPSK	135	69	14.14	14.25	14.15	15.6	0.0
100	PI/2 BPSK	135	138	14.09	14.16	14.09	15.6	0.0
100	PI/2 BPSK	270	0	14.11	14.25	14.15		
100	QPSK	1	1	14.28	14.35	14.32		
100	QPSK	1	137	14.18	14.24	14.20	15.6	0.0
100	QPSK	1	271	14.17	14.17	14.18		
100	QPSK	135	0	14.13	14.17	14.14	15.6	0.0
100	QPSK	135	69	14.15	14.31	14.20	15.6	0.0
100	QPSK	135	138	14.17	14.21	14.10	15.6	0.0
100	QPSK	270	0	14.20	14.28	14.23	15.6	0.0
100	16QAM	1	1	14.14	14.23	14.14	15.6	0.0
100	64QAM	1	1	14.13	14.23	14.21	15.6	0.0
100	256QAM	1	1	14.14	14.20	14.11	15.6	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	14.18	14.17	14.18	15.6	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	14.16	14.22	14.09	15.6	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725	3840	3945		
70	QPSK	1	1	14.14	14.20	14.11	15.6	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	14.13	14.25	14.11	15.6	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	14.16	14.17	14.10	15.6	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	14.08	14.24	14.15	15.6	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	14.16	14.18	14.14	15.6	0.0
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	14.06	14.24	14.20	15.6	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	14.08	14.22	14.16	15.6	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	14.07	14.20	14.17	15.6	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	14.13	14.22	14.11	15.6	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		14.03			
100	PI/2 BPSK	1	137		14.06		15.6	0.0
100	PI/2 BPSK	1	271		14.15			
100	PI/2 BPSK	135	0		14.10		15.6	0.0
100	PI/2 BPSK	135	69		14.14		15.6	0.0
100	PI/2 BPSK	135	138		14.04		15.6	0.0
100	PI/2 BPSK	270	0		14.20			
100	QPSK	1	1		14.29			
100	QPSK	1	137		14.12		15.6	0.0
100	QPSK	1	271		14.14			
100	QPSK	135	0		14.09		15.6	0.0
100	QPSK	135	69		14.22		15.6	0.0
100	QPSK	135	138		14.19		15.6	0.0
100	QPSK	270	0		14.21		15.6	0.0
100	16QAM	1	1		14.19		15.6	0.0
100	64QAM	1	1		14.09		15.6	0.0
100	256QAM	1	1		14.13		15.6	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	14.17	14.25	14.19	15.6	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	14.16	14.20	14.19	15.6	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725	3750	3765		
70	QPSK	1	1	14.13	14.18	14.19	15.6	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	14.07	14.20	14.20	15.6	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	14.12	14.23	14.20	15.6	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	14.11	14.15	14.15	15.6	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	14.07	14.25	14.16	15.6	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	14.17	14.22	14.16	15.6	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	14.16	14.20	14.14	15.6	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	14.11	14.24	14.14	15.6	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	14.14	14.23	14.12	15.6	0.0



2.4GHz WLAN				Art 7 Head Standalone		Art 7 open Hotspot		Art 7 Extremely Standalone		Art 5 close Body-worn Standalone		Art 5 close Hotspot		Art 5 open Body-worn Standalone		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	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11b 1Mbps	1	2412	16.00	16.00	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	100
	6	2437	14.28	16.00	15.72	12.50	18.32	19.50	18.50	10.75	12.50	16.51	18.00	18.00			
	11	2462	14.02	16.00			12.50	19.50	17.16	18.50	12.50	18.00					

5.2GHz WLAN				Art 7 close Hotspot		Art 5 Head Standalone		Art 5 open Hotspot		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	35	5180	17.00	17.00	18.00	19.50	19.50	19.50	96.97	
	40	5200	17.00	17.00	18.00	19.50	19.50			
	44	5220	17.00	17.00	18.00	19.50	19.50			
802.11n-HT20 MCS30	36	5180	Not Required	17.00	18.00	19.50	19.50	96.77		
	40	5200	Not Required	17.00	18.00	19.50	19.50			
	44	5220	Not Required	17.00	18.00	19.50	19.50			
802.11n-HT40 MCS30	38	5190	17.00	17.00	18.00	19.50	19.50	93.70		
	46	5230	15.29	17.00	16.42	18.00	17.75			
	36	5180	17.00	17.00	18.00	19.00	19.00			
802.11ac-VHT20 MCS30	44	5220	17.00	17.00	18.00	19.50	19.50	96.79		
	48	5240	17.00	17.00	18.00	19.50	19.50			
	38	5190	17.00	17.00	18.00	19.50	19.50			
802.11ac-VHT40 MCS30	46	5230	17.00	17.00	18.00	19.50	19.50	93.78		
	42	5210	Not Required	12.00	13.50	13.50	18.19			
	36	5180	17.00	17.00	18.00	19.50	19.50			
802.11ax-HE20 MCS30	44	5220	17.00	17.00	18.00	19.50	19.50	96.89		
	48	5240	17.00	17.00	18.00	19.50	19.50			
	38	5190	17.00	17.00	18.00	19.50	19.50			
802.11ax-HE40 MCS30	46	5230	17.00	17.00	18.00	19.50	19.50	92.46		
	42	5210	12.50	12.50	13.50	13.50	18.84			

5.3GHz WLAN				Art 5 Full power Extremely Standalone open Body-worn Standalone close Body-worn Standalone		Art 5 Head Standalone		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	52	5200	20.50	20.50	18.00	18.00	96.97	
	56	5280	20.00	20.00	18.00	18.00		
	60	5300	20.00	20.00	18.00	18.00		
	64	5320	20.00	20.00	18.00	18.00		
802.11n-HT20 MCS30	52	5200	20.00	20.00	18.00	18.00	96.77	
	56	5280	20.00	20.00	18.00	18.00		
	60	5300	20.50	20.50	18.00	18.00		
	64	5320	20.50	20.50	18.00	18.00		
802.11n-HT40 MCS30	54	5270	19.24	21.00	18.28	18.00	93.70	
	62	5310	19.50	21.00	18.00	18.00		
	56	5280	20.00	20.00	18.00	18.00		
	60	5300	20.00	20.00	18.00	18.00		
802.11ac-VHT20 MCS30	54	5270	21.00	21.00	18.00	18.00	96.79	
	56	5280	20.00	20.00	18.00	18.00		
	60	5300	20.50	20.50	18.00	18.00		
	64	5320	20.50	20.50	18.00	18.00		
802.11ac-VHT40 MCS30	54	5270	21.00	21.00	18.00	18.00	93.78	
	62	5310	19.50	21.00	18.00	18.00		
	56	5280	20.00	20.00	18.00	18.00		
	60	5300	20.50	20.50	18.00	18.00		
802.11ax-HE20 MCS30	56	5280	20.50	20.50	18.00	18.00	96.89	
	60	5300	21.00	21.00	18.00	18.00		
	64	5320	21.00	21.00	18.00	18.00		
	54	5270	21.00	21.00	18.00	18.00		
802.11ax-HE40 MCS30	58	5310	19.50	21.00	18.00	18.00	92.46	
	62	5310	19.50	21.00	18.00	18.00		
	56	5280	15.50	15.50	15.50	18.84		

5.5GHz WLAN				Art 5 Full power Extremely Standalone close Body-worn Standalone		Art 5 Head Standalone		Art 7 open Body-worn Standalone		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	100	5500	19.50	17.00	17.00	19.50	19.50	96.97		
	116	5580	19.50	17.00	17.00	19.50	19.50			
	124	5620	19.50	17.00	17.00	19.50	19.50			
	132	5660	19.50	17.00	17.00	19.50	19.50			
	140	5700	19.50	17.00	17.00	19.50	19.50			
	144	5720	20.00	17.00	17.00	19.50	19.50			
802.11n-HT20 MCS30	100	5500	20.00	17.00	17.00	19.50	19.50	96.77		
	116	5580	20.00	17.00	17.00	19.50	19.50			
	124	5620	20.00	17.00	17.00	19.50	19.50			
	132	5660	20.00	17.00	17.00	19.50	19.50			
	140	5700	19.50	17.00	17.00	19.50	19.50			
	144	5720	20.00	17.00	17.00	19.50	19.50			
802.11n-HT40 MCS30	102	5510	20.50	17.00	17.00	19.50	19.50	93.70		
	110	5550	20.50	17.00	17.00	19.50	19.50			
	126	5630	20.50	17.00	17.00	19.50	19.50			
	134	5670	21.00	17.00	17.00	19.50	19.50			
	142	5710	21.00	17.00	17.00	19.50	19.50			
	106	5530	16.50	16.50	16.50	18.19	18.19			
802.11ac-VHT20 MCS30	102	5510	19.19	21.00	15.17	17.00	17.75	96.79		
	118	5590	20.00	17.00	17.00	19.50	19.50			
	124	5620	20.00	17.00	17.00	19.50	19.50			
	132	5660	20.00	17.00	17.00	19.50	19.50			
	140	5700	19.50	17.00	17.00	19.50	19.50			
	144	5720	20.00	17.00	17.00	19.50	19.50			
802.11ac-VHT40 MCS30	102	5510	20.50	17.00	17.00	19.50	19.50	93.78		
	110	5550	20.50	17.00	17.00	19.50	19.50			
	126	5630	20.50	17.00	17.00	19.50	19.50			
	134	5670	21.00	17.00	17.00	19.50	19.50			
	142	5710	21.00	17.00	17.00	19.50	19.50			
	106	5530	16.50	16.50	16.50	18.19	18.19			
802.11ax-HE20 MCS30	102	5510	19.50	17.00	17.00	19.50	19.50	96.89		
	118	5590	20.50	17.00	17.00	19.50	19.50			
	124	5620	20.50	17.00	17.00	19.50	19.50			
	132	5660	20.50	17.00	17.00	19.50	19.50			
	140	5700	20.00	17.00	17.00	19.50	19.50			
	144	5720	20.00	17.00	17.00	19.50	19.50			
802.11ax-HE40 MCS30	102	5510	19.50	17.00	17.00	19.50	19.50	92.46		
	110	5550	21.00	17.00	17.00	19.50	19.50			
	126	5630	21.00	17.00	17.00	19.50	19.50			
	134	5670	21.00	17.00	17.00	19.50	19.50			
	142	5710	21.00	17.00	17.00	19.50	19.50			
	106	5530	16.50	16.50	16.50	18.19	18.19			
802.11ax-HE80 MCS30	122	5610	21.00	17.00	17.00	19.50	19.50	88.84		
	138	5690	21.00	17.00	17.00	19.50	19.50			

5.8GHz WLAN				Art 5 Head Standalone		Art 5 open Hotspot		Art 5 Extremely Standalone		Art 5 close Hotspot		Art 5 open Body-worn Standalone		Art 5 close Body-worn Standalone		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	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	149	5745	16.00	16.00	13.50	20.00	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	96.97
	157	5785	16.00	16.00	13.50	20.00	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	
	165	5825	16.00	16.00	13.50	20.00	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	
	149	5745	16.00	16.00	13.50	20.00	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	
802.11n-HT20 MCS30	157	5785	16.00	16.00	13.50	20.00	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	96.77
	165	5825	16.00	16.00	13.50	20.00	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	
	151	5755	Not Required	16.00	Not Required	13.50	20.00	Not Required	14.00	Not Required	14.00	Not Required	14.00	Not Required	20.50	20.50	
	159	5795	16.00	16.00	13.50	20.00	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	
802.11n-HT40 MCS30	149	5745	16.00	16.00	13.50	20.00	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	93.70
	157	5785	16.00	16.00	13.50	20.00	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	
	165	5825	16.00	16.00	13.50	20.00	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	
	151	5755	16.00	16.00	13.50	20.00	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	
802.11ac-VHT20 MCS30	149	5745	16.00	16.00	13.50	20.00	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50	96.79
	157	5785	16.00	16.00	13.50	20.00	14.00	19.50	14.00	19.50	14.00	19.50	14.00	19.50			



BT 2.0 Art 7 Full power

Mode	Channel	Frequency (MHz)	Average power (dBm)
BR / EDR	CH 39	2441	18.74
Tune-up Limit			19.5

BT 2.0 Art 7 For open Body-worn Standalone
close Body-worn
Extremity Standalone

Mode	Channel	Frequency (MHz)	Average power (dBm)
BR / EDR	CH 39	2441	12.25
Tune-up Limit			13.5

BT 2.0 Art 7 Head standalone

Mode	Channel	Frequency (MHz)	Average power (dBm)
BR / EDR	CH 39	2441	8.46
Tune-up Limit			9.5

BT 2.0 For Art 7 Head Simultaneous
open Body-worn Simultaneous
open/close Hotspot
Extremity Simultaneous

Mode	Channel	Frequency (MHz)	Average power (dBm)
BR / EDR	CH 39	2441	7.44
Tune-up Limit			8.5



WIFI 6E			Ant 7		Ant 5		Ant 5+7		Duty Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
WIFI 6E	802.11ax-HE80 MCS0	7	5985			8.82	10.50		13.50	86.93
		71	6305	10.72	12.50				15.00	
		119	6545			10.70	12.50		15.00	
		167	6785			10.66	12.50		15.00	
		215	7025	10.59	12.00				14.50	