

<GSM>

	Burst Average Power (dBm)			Tune-up Limit	Frame Average Power (dBm)			Tune-up Limit
	128	189	251		128	189	251	
GSM 850 Ant 0								
TX Channel	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
Frequency (MHz)	28.70	28.84	28.72	30.00	18.70	18.84	18.72	21.00
GSM 1 Tx slot	28.77	28.81	28.74	30.00	18.77	18.81	18.74	21.00
GPRS 1 Tx slot	28.28	28.27	28.24	29.50	22.28	22.27	22.24	23.50
GPRS 2 Tx slots	26.78	26.87	26.77	28.00	22.52	22.61	22.51	23.74
GPRS 3 Tx slots	25.24	25.28	25.27	26.50	22.24	22.28	22.27	23.50
GPRS 4 Tx slots								

	Burst Average Power (dBm)			Tune-up Limit	Frame Average Power (dBm)			Tune-up Limit
	512	661	810		512	661	810	
GSM 1900 Ant 1								
TX Channel	1850.2	1860	1869.8	(dBm)	1850.2	1860	1869.8	(dBm)
Frequency (MHz)	26.18	26.09	25.98	27.50	17.18	17.02	16.93	18.50
GSM 1 Tx slot	26.20	26.21	26.19	27.50	17.20	17.21	17.19	18.50
GPRS 1 Tx slot	25.18	25.24	25.22	26.50	19.18	19.24	19.22	20.50
GPRS 2 Tx slots	23.18	23.17	23.20	24.50	18.92	18.91	18.94	20.24
GPRS 3 Tx slots	22.15	22.20	22.16	23.50	18.15	18.20	18.16	20.50
GPRS 4 Tx slots								

<WCDMA>

Band	WCDMA II Ant 1			Tune-up Limit	WCDMA V Ant 0			Tune-up Limit
	9552	9600	9638		4132	4182	4233	
TX Channel	9552	9600	9638	(dBm)	4337	4407	4488	(dBm)
RX Channel	1852.4	1880	1907.8		826.4	836.4	846.8	
Frequency (MHz)	19.60	19.71	19.63	21.00	23.08	23.19	23.16	24.50
3GPP Rel 99	19.71	19.79	19.68	21.00	23.11	23.24	23.21	24.50
3GPP Rel 6	18.71	18.87	18.79	20.00	22.22	22.40	22.33	23.50
3GPP Rel 6	18.72	18.71	18.61	20.00	22.26	22.20	22.13	23.50
3GPP Rel 6	18.15	18.32	18.24	19.50	21.61	21.78	21.76	23.00
3GPP Rel 6	18.29	18.37	18.21	19.50	21.75	21.87	21.69	23.00
3GPP Rel 6	18.73	18.90	18.70	20.00	22.22	22.30	22.19	23.50
3GPP Rel 8	18.63	18.70	18.63	20.00	22.13	22.15	22.12	23.50
3GPP Rel 8	18.14	18.31	18.28	19.50	21.61	21.78	21.81	23.00
3GPP Rel 8	18.21	18.39	18.20	19.50	21.71	21.92	21.69	23.00
3GPP Rel 6	19.65	19.73	19.69	20.00	22.12	22.18	22.18	23.50
3GPP Rel 6	16.67	16.70	16.59	18.00	20.20	20.24	20.07	21.50
3GPP Rel 6	17.70	17.80	17.63	19.00	21.18	21.30	21.16	22.50
3GPP Rel 6	16.72	16.78	16.72	18.00	20.20	20.29	20.19	21.50
3GPP Rel 6	19.80	19.74	19.63	20.00	22.32	22.40	22.08	23.50
3GPP Rel 7	16.11	16.31	16.28	17.50	19.56	19.77	19.73	21.00

LTE Band 2 Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq 18800	Power Middle Ch / Freq 18900	Power High Ch / Freq 19100	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.56	18.62	18.54	20	0		
20	QPSK	1	49	18.44	18.48	18.36				
20	QPSK	1	99	18.39	18.50	18.51				
20	QPSK	50	0	18.52	18.45	18.45				
20	QPSK	50	24	18.46	18.46	18.42	20	0		
20	QPSK	50	50	18.51	18.57	18.49				
20	QPSK	100	0	18.42	18.51	18.35				
20	16QAM	1	0	18.46	18.45	18.41				
20	16QAM	1	49	18.43	18.48	18.36	20	0		
20	16QAM	1	99	18.40	18.38	18.16				
20	16QAM	50	0	18.31	18.30	18.44				
20	16QAM	50	24	18.48	18.30	18.41				
20	16QAM	50	50	18.33	18.26	18.35	20	0		
20	16QAM	100	0	18.39	18.42	18.43				
20	64QAM	1	0	18.47	18.38	18.27				
20	64QAM	1	49	18.36	18.33	18.29				
20	64QAM	1	99	18.37	18.44	18.18	20	0		
20	64QAM	50	0	18.40	18.39	18.37				
20	64QAM	50	24	18.39	18.30	18.22				
20	64QAM	50	50	18.34	18.47	18.47				
20	64QAM	100	0	18.44	18.33	18.24	20	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.41	18.55	18.41	20	0		
15	QPSK	1	37	18.26	18.43	18.17				
15	QPSK	1	74	18.23	18.31	18.39				
15	QPSK	36	0	18.34	18.38	18.29				
15	QPSK	36	20	18.35	18.25	18.30	20	0		
15	QPSK	36	36	18.45	18.49	18.40				
15	QPSK	75	0	18.42	18.25	18.28				
15	16QAM	1	0	18.28	18.26	18.27				
15	16QAM	1	37	18.34	18.32	18.23	20	0		
15	16QAM	1	74	18.22	18.34	18.08				
15	16QAM	36	0	18.27	18.14	18.25				
15	16QAM	36	20	18.40	18.27	18.22				
15	16QAM	36	36	18.18	18.10	18.22	20	0		
15	16QAM	75	0	18.29	18.37	18.39				
15	64QAM	1	0	18.41	18.28	18.10				
15	64QAM	1	37	18.22	18.25	18.17				
15	64QAM	1	74	18.26	18.24	18.13	20	0		
15	64QAM	36	0	18.26	18.51	18.20				
15	64QAM	36	20	18.32	18.25	18.12				
15	64QAM	36	36	18.25	18.31	18.34				
15	64QAM	75	0	18.32	18.17	18.07	20	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.22	18.50	18.25	20	0		
10	QPSK	1	25	18.32	18.38	18.17				
10	QPSK	1	49	18.32	18.32	18.36				
10	QPSK	25	0	18.35	18.32	18.40				
10	QPSK	25	12	18.28	18.39	18.33	20	0		
10	QPSK	25	25	18.42	18.46	18.42				
10	QPSK	50	0	18.34	18.34	18.16				
10	16QAM	1	0	18.35	18.26	18.29				
10	16QAM	1	25	18.37	18.30	18.27	20	0		
10	16QAM	1	49	18.28	18.35	18.00				
10	16QAM	25	0	18.27	18.24	18.33				
10	16QAM	25	12	18.34	18.22	18.30				
10	16QAM	25	25	18.23	18.14	18.18	20	0		
10	16QAM	50	0	18.20	18.21	18.39				
10	64QAM	1	0	18.34	18.29	18.11				
10	64QAM	1	25	18.23	18.19	18.24				
10	64QAM	1	49	18.21	18.30	18.12	20	0		
10	64QAM	25	0	18.25	18.43	18.29				
10	64QAM	25	12	18.29	18.21	18.03				
10	64QAM	25	25	18.17	18.38	18.40				
10	64QAM	50	0	18.33	18.14	18.03	20	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.52	18.44	18.30	20	0		
5	QPSK	1	12	18.25	18.38	18.19				
5	QPSK	1	24	18.23	18.36	18.46				
5	QPSK	12	0	18.44	18.25	18.33				
5	QPSK	12	7	18.36	18.39	18.36	20	0		
5	QPSK	12	13	18.30	18.54	18.36				
5	QPSK	25	0	18.31	18.26	18.21				
5	16QAM	1	0	18.28	18.25	18.37				
5	16QAM	1	12	18.36	18.35	18.33	20	0		
5	16QAM	1	24	18.24	18.24	18.05				
5	16QAM	12	0	18.24	18.17	18.25				
5	16QAM	12	7	18.41	18.10	18.28				
5	16QAM	12	13	18.13	18.10	18.24	20	0		
5	16QAM	25	0	18.32	18.31	18.30				
5	64QAM	1	0	18.30	18.17	18.13				
5	64QAM	1	12	18.23	18.26	18.17				
5	64QAM	1	24	18.20	18.49	18.20	20	0		
5	64QAM	12	0	18.33	18.50	18.19				
5	64QAM	12	7	18.31	18.19	18.02				
5	64QAM	12	13	18.23	18.29	18.28				
5	64QAM	25	0	18.31	18.16	18.17	20	0		
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.52	18.50	18.51	20	0		
3	QPSK	1	8	18.25	18.42	18.24				
3	QPSK	1	14	18.19	18.37	18.33				
3	QPSK	8	0	18.42	18.31	18.28				
3	QPSK	8	4	18.37	18.27	18.36	20	0		
3	QPSK	8	7	18.40	18.52	18.35				
3	QPSK	15	0	18.46	18.23	18.17				
3	16QAM	1	0	18.33	18.31	18.38				
3	16QAM	1	8	18.30	18.42	18.31	20	0		
3	16QAM	1	14	18.24	18.33	18.21				
3	16QAM	8	0	18.20	18.11	18.30				
3	16QAM	8	4	18.44	18.13	18.22				
3	16QAM	8	7	18.14	18.16	18.23	20	0		
3	16QAM	15	0	18.33	18.34	18.33				
3	64QAM	1	0	18.38	18.26	18.23				
3	64QAM	1	8	18.16	18.15	18.10				
3	64QAM	1	14	18.30	18.34	18.09	20	0		
3	64QAM	8	0	18.33	18.43	18.22				
3	64QAM	8	4	18.23	18.16	18.02				
3	64QAM	8	7	18.22	18.35	18.43				
3	64QAM	15	0	18.28	18.13	18.17	20	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	18.36	18.50	18.42	20	0		
1.4	QPSK	1	3	18.30	18.41	18.28				
1.4	QPSK	1	5	18.25	18.40	18.37				
1.4	QPSK	3	0	18.46	18.35	18.25				
1.4	QPSK	3	1	18.27	18.27	18.26	20	0		
1.4	QPSK	3	3	18.42	18.53	18.36				
1.4	QPSK	6	0	18.46	18.21	18.21				
1.4	16QAM	1	0	18.40	18.24	18.34				
1.4	16QAM	1	3	18.33	18.35	18.31	20	0		
1.4	16QAM	1	5	18.21	18.22	18.02				
1.4	16QAM	3	0	18.22	18.21	18.25				
1.4	16QAM	3	1	18.36	18.17	18.28				
1.4	16QAM	3	3	18.17	18.17	18.18	20	0		
1.4	16QAM	6	0	18.34	18.39	18.33				
1.4	64QAM	1	0	18.35	18.21	18.16				
1.4	64QAM	1	3	18.24	18.29	18.15				
1.4	64QAM	1	5	18.33	18.31	18.02	20	0		
1.4	64QAM	3	0	18.20	18.44	18.24				
1.4	64QAM	3	1	18.24	18.21	18.10				
1.4	64QAM	3	3	18.14	18.31	18.28				
1.4	64QAM	6	0	18.26	18.18	18.13	20	0		



LTE Band 5 Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dbm)	MPR (db)
				Low	Power	Power		
				Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
				20450	20525	20600		
				195	196.5	198		
				Channel				
				Frequency (MHz)				
10	QPSK	1	0	23.09	23.22	23.16	24.5	0
10	QPSK	1	25	22.97	23.00	23.15		
10	QPSK	1	45	23.06	23.06	23.03		
10	QPSK	25	0	22.37	22.38	22.32	23.5	1
10	QPSK	25	12	22.35	22.33	22.30		
10	QPSK	25	25	22.22	22.27	22.34		
10	QPSK	50	0	22.39	22.42	22.25		

LTE Band 12 Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power		Power		Tune-up limit (dbm)	MPR (db)
				Low Ch. / Freq.	High Ch. / Freq.	Low Ch. / Freq.	High Ch. / Freq.		
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	23.02	23.06	23.05	24	0	
10	QPSK	1	25	22.92	23.03	23.06			
10	QPSK	1	45	23.03	23.07	23.01			
10	QPSK	25	0	21.90	22.07	21.97	23	1	
10	QPSK	25	12	22.05	21.98	22.03			
10	QPSK	25	25	21.61	21.62	21.64			
10	QPSK	50	0	22.22	22.31	22.24			



LTE 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				39750	40185	40620	41055	41490	19	0
Frequency (MHz)				2300	23435	23870	24305	24740		
20	QPSK	1	0	18.14	18.02	18.22	17.98	18.00		
20	QPSK	1	49	17.87	17.84	17.98	17.90	17.80	19	0
20	QPSK	1	99	17.99	17.87	18.18	18.06	17.88		
20	QPSK	50	0	18.06	18.07	18.17	18.30	18.01		
20	QPSK	50	24	18.03	18.02	17.98	17.83	17.85	19	0
20	QPSK	50	50	18.13	17.83	18.14	17.87	17.89		
20	QPSK	100	0	18.02	18.04	18.16	17.89	17.92		

LTE Band 42 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				42190	42590	42990	16	0
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	14.68	14.52	14.54		
20	QPSK	1	49	14.49	14.58	14.53	16	0
20	QPSK	1	99	14.48	14.48	14.63		
20	QPSK	50	0	14.64	14.58	14.61		
20	QPSK	50	24	14.64	14.59	14.40	16	0
20	QPSK	50	50	14.49	14.76	14.47		
20	QPSK	100	0	14.51	14.62	14.43		

LTE 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				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	19.21	19.25	19.16	20	0
20	QPSK	1	49	19.08	19.12	19.08		
20	QPSK	1	99	19.16	19.03	19.15		
20	QPSK	50	0	19.18	19.24	19.20	20	0
20	QPSK	50	24	19.10	19.02	19.08		
20	QPSK	50	50	19.22	19.17	19.10		
20	QPSK	100	0	19.05	19.12	19.08	20	0
20	16QAM	1	0	19.11	19.09	19.07		
20	16QAM	1	49	19.08	19.07	19.08		
20	16QAM	1	99	19.13	19.96	19.12	20	0
20	16QAM	50	0	19.03	19.17	19.04		
20	16QAM	50	24	19.12	19.17	19.96		
20	16QAM	50	50	18.96	19.15	19.14	20	0
20	16QAM	100	0	18.95	19.11	19.08		
20	64QAM	1	0	19.12	19.07	19.04		
20	64QAM	1	49	18.97	18.98	19.05	20	0
20	64QAM	1	99	19.07	19.14	19.15		
20	64QAM	50	0	19.16	19.09	19.10		
20	64QAM	50	24	19.16	19.11	18.98	20	0
20	64QAM	50	50	19.01	18.99	19.01		
20	64QAM	100	0	19.05	19.06	19.01		
Channel				37825	38000	38175		
Frequency (MHz)				25775	25995	26125		
15	QPSK	1	0	18.99	19.15	19.03	20	0
15	QPSK	1	37	18.97	19.02	18.91		
15	QPSK	1	74	19.07	18.83	18.96		
15	QPSK	36	0	19.14	19.15	19.21	20	0
15	QPSK	36	20	19.03	19.00	18.92		
15	QPSK	36	39	19.20	19.03	19.10		
15	QPSK	75	0	18.91	19.00	18.99	20	0
15	16QAM	1	0	18.99	18.96	18.99		
15	16QAM	1	37	18.99	19.05	18.99		
15	16QAM	1	74	18.99	18.79	18.99	20	0
15	16QAM	36	0	18.91	18.99	18.97		
15	16QAM	36	20	19.02	19.10	18.79		
15	16QAM	36	39	18.80	19.04	19.02	20	0
15	16QAM	75	0	18.88	19.00	18.91		
15	64QAM	1	0	19.06	18.95	18.84		
15	64QAM	1	37	18.94	18.77	19.06	20	0
15	64QAM	1	74	19.08	19.11	19.11		
15	64QAM	36	0	19.12	19.10	18.96		
15	64QAM	36	20	19.05	18.97	18.92	20	0
15	64QAM	36	39	18.91	18.81	18.86		
15	64QAM	75	0	18.89	19.01	18.98		
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	19.17	19.04	18.94	20	0
10	QPSK	1	25	18.88	19.05	18.99		
10	QPSK	1	49	18.94	19.05	19.15		
10	QPSK	25	0	19.12	19.22	19.16	20	0
10	QPSK	25	12	18.92	18.90	19.00		
10	QPSK	25	25	19.23	19.02	18.98		
10	QPSK	50	0	18.95	19.08	18.96	20	0
10	16QAM	1	0	18.92	18.95	18.86		
10	16QAM	1	25	18.99	18.88	18.91		
10	16QAM	1	49	19.13	19.24	19.13	20	0
10	16QAM	25	0	18.99	19.16	18.95		
10	16QAM	25	12	19.10	18.98	18.90		
10	16QAM	25	25	18.80	19.09	18.99	20	0
10	16QAM	50	0	18.76	19.05	18.97		
10	64QAM	1	0	19.04	19.02	18.84		
10	64QAM	1	25	18.81	18.85	18.86	20	0
10	64QAM	1	49	18.88	19.05	18.97		
10	64QAM	25	0	19.08	18.91	18.99		
10	64QAM	25	12	19.02	19.02	18.85	20	0
10	64QAM	25	25	18.88	18.94	18.88		
10	64QAM	50	0	19.03	19.00	19.03		
Channel				37775	38000	38225		
Frequency (MHz)				25725	2595	26125		
5	QPSK	1	0	19.22	19.16	19.00	20	0
5	QPSK	1	12	18.95	18.93	18.98		
5	QPSK	1	24	19.15	18.97	19.09		
5	QPSK	12	0	19.04	19.05	19.17	20	0
5	QPSK	12	7	18.93	19.03	18.96		
5	QPSK	12	13	19.16	19.19	18.93		
5	QPSK	25	0	18.99	19.13	19.04	20	0
5	16QAM	1	0	19.10	19.88	18.90		
5	16QAM	1	12	18.88	18.98	19.03		
5	16QAM	1	24	19.09	18.75	19.09	20	0
5	16QAM	12	0	18.87	19.17	18.84		
5	16QAM	12	7	19.10	19.17	18.86		
5	16QAM	12	13	18.98	18.99	19.11	20	0
5	16QAM	25	0	18.92	19.11	18.98		
5	64QAM	1	0	18.91	19.06	18.91		
5	64QAM	1	12	18.92	19.80	18.99	20	0
5	64QAM	1	24	18.94	18.93	19.15		
5	64QAM	12	0	19.14	19.02	19.07		
5	64QAM	12	7	19.03	18.91	18.97	20	0
5	64QAM	12	13	18.86	18.92	19.00		
5	64QAM	25	0	18.97	19.04	18.95		



2CA DL

CA List	PCC									SCC					Power	
	LTE	BW	BW	UL	UL	UL#	UL	DL Antenna	Configuration	LTE	BW	DL	DL	DL Antenna	With CA	Without CA
	Band	Ant	(MHz)	Freq	Channel	Mod.	RB	RB		Band	(MHz)	Freq	Channel	Configuration	Tx. Power	Tx. Power
				(MHz)			Offset					(MHz)				(dBm)
CA_41A-42A	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	18.15	18.30
	Band 42	Ant 0	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	14.79	14.92



3CA DL

3CA List	PCC									SCC1				SCC2				Power				
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna	LTE	BW	DL	DL	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA	
	Band	Ant	(MHz)	Freq.	Channel		RB	RB	Offset	Configuration	Band	(MHz)	Freq.	Channel	Configuration	Band	(MHz)	Freq.	Channel	Configuration	Tx Power	Tx Power
				(MHz)				Offset				(MHz)					(MHz)				(dBm)	(dBm)
CA_41A-42C	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 42	20M	3500	42590	4xMIMO	Band 42	20M	3519.8	42788	4xMIMO		18.22	18.30
	Band 42	Ant 0	20M	3500	42590	QPSK	1	0	4xMIMO	Band 42	20M	3519.8	42788	4xMIMO	Band 41	20M	2593	40620	4xMIMO		14.88	14.92
CA_41C-42A	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40816	4xMIMO	Band 42	20M	3500	42590	4xMIMO		18.25	18.30
	Band 42	Ant 0	20M	3500	42590	QPSK	1	0	4xMIMO	Band 41	20M	2593	40620	4xMIMO	Band 41	20M	2612.8	40816	4xMIMO		14.89	14.92

n41 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502200	518598	534996	18.5	0.0
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.10	17.27	16.98		
30	QPSK	1	39	17.02	17.11	16.82	18.5	0.0
30	QPSK	1	76	17.15	17.16	17.05		
30	QPSK	36	0	17.10	17.11	17.03		
30	QPSK	36	18	17.13	17.25	17.04	18.5	0.0
30	QPSK	36	39	16.80	17.16	16.92		
30	QPSK	75	0	17.10	17.00	16.97		
30	QPSK	1	1	17.17	17.35	16.98	18.5	0.0
30	QPSK	1	39	17.04	17.17	17.04		
30	QPSK	1	76	17.23	17.18	17.19		
30	QPSK	36	0	17.08	17.24	17.12	18.5	0.0
30	QPSK	36	18	17.13	17.30	17.09		
30	QPSK	36	39	17.05	17.27	17.06		
30	QPSK	75	0	17.17	17.20	17.11	18.5	0.0
30	16QAM	1	1	17.07	17.20	16.77		
30	64QAM	1	1	16.98	17.12	16.91		
30	256QAM	1	1	17.08	16.97	17.08	18.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.17	17.32	16.98	18.5	0.0

Part270 n77 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	15.79	16.05	15.90	17.0	0.0	
100	PI/2 BPSK	1	137	15.73	16.00	15.89			
100	PI/2 BPSK	1	271	15.75	15.89	15.88			
100	PI/2 BPSK	135	0	15.89	15.77	15.68	17.0	0.0	
100	PI/2 BPSK	135	69	15.81	15.93	15.92	17.0	0.0	
100	PI/2 BPSK	135	138	15.83	15.85	15.78	17.0	0.0	
100	PI/2 BPSK	270	0	15.75	15.94	15.83			
100	QPSK	1	1	15.87	16.16	15.92			
100	QPSK	1	137	15.78	16.07	15.94	17.0	0.0	
100	QPSK	1	271	15.88	16.02	15.94			
100	QPSK	135	0	15.98	15.91	15.82			
100	QPSK	135	69	15.88	15.99	15.95	17.0	0.0	
100	QPSK	135	138	15.93	15.92	15.90	17.0	0.0	
100	QPSK	270	0	15.79	15.97	15.88			
100	16QAM	1	1	15.78	16.03	15.79			
100	64QAM	1	1	15.69	15.95	15.86	17.0	0.0	
100	256QAM	1	1	15.74	15.92	15.85	17.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	15.74	16.03	15.81	17.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.81	16.07	15.82	17.0	0.0	

Part27Q n77 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332				
Frequency (MHz)				3499.98				
100	PI/2 BPSK	1	1		15.97		17.0	0.0
100	PI/2 BPSK	1	137		15.81			
100	PI/2 BPSK	1	271		15.94			
100	PI/2 BPSK	135	0		15.94			
100	PI/2 BPSK	135	69		15.96		17.0	0.0
100	PI/2 BPSK	135	138		15.91		17.0	0.0
100	PI/2 BPSK	270	0		15.73			
100	QPSK	1	1		16.11		17.0	0.0
100	QPSK	1	137		15.91			
100	QPSK	1	271		16.01			
100	QPSK	135	0		16.01			
100	QPSK	135	69		16.04		17.0	0.0
100	QPSK	135	138		15.95		17.0	0.0
100	QPSK	270	0		15.86			
100	16QAM	1	1		15.96		17.0	0.0
100	64QAM	1	1		15.91		17.0	0.0
100	256QAM	1	1		15.95		17.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	15.97	15.90	15.95	17.0	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	QPSK	1	1	15.97	15.95	15.97	17.0	0.0

Part27O n78 Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	17.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		16.07		17.0	0.0
100	PI/2 BPSK	1	137		15.86			
100	PI/2 BPSK	1	271		15.99			
100	PI/2 BPSK	135	0		15.97		17.0	0.0
100	PI/2 BPSK	135	69		15.96		17.0	0.0
100	PI/2 BPSK	135	138		15.82		17.0	0.0
100	PI/2 BPSK	270	0		15.84			
100	QPSK	1	1		16.14		17.0	0.0
100	QPSK	1	137		15.89			
100	QPSK	1	271		16.06			
100	QPSK	135	0		16.01		17.0	0.0
100	QPSK	135	69		15.99		17.0	0.0
100	QPSK	135	138		15.89		17.0	0.0
100	QPSK	270	0		15.97			
100	16QAM	1	1		16.03		17.0	0.0
100	64QAM	1	1		15.80		17.0	0.0
100	256QAM	1	1		15.95		17.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1		16.06	16.06	17.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1		16.07	16.00	16.04	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1		16.03	16.09	16.04	0.0

Part27Q n78 Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		17.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		16.04		17.0	0.0
100	PI/2 BPSK	1	137		15.84			
100	PI/2 BPSK	1	271		15.84			
100	PI/2 BPSK	135	0		15.74		17.0	0.0
100	PI/2 BPSK	135	69		15.94		17.0	0.0
100	PI/2 BPSK	135	138		15.73		17.0	0.0
100	PI/2 BPSK	270	0		16.01			
100	QPSK	1	1		16.09		17.0	0.0
100	QPSK	1	137		15.93			
100	QPSK	1	271		15.92			
100	QPSK	135	0		15.84		17.0	0.0
100	QPSK	135	69		16.05		17.0	0.0
100	QPSK	135	138		15.80		17.0	0.0
100	QPSK	270	0		16.04			
100	16QAM	1	1		15.81		17.0	0.0
100	64QAM	1	1		15.90		17.0	0.0
100	256QAM	1	1		15.87		17.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1		15.01	15.79	15.82	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1		15.80	15.85	15.84	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1		15.79	15.80	15.89	0.0

WLAN/Bluetooth Power

<2.4GHz WLAN>

	Ant 8			Full Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	11.45	13.00	100.00
		6	2437	11.24	13.00	
		11	2462	11.33	13.00	
2.4GHz WLAN	802.11g 6Mbps	1	2412	11.35	13.00	97.46
		6	2437	11.42	13.00	
		11	2462	11.40	13.00	
	802.11n-HT20 MCS0	1	2412	11.22	13.00	97.28
		6	2437	11.16	13.00	
		11	2462	11.12	13.00	
	802.11n-HT40 MCS0	3	2422	11.36	13.00	94.70
		6	2437	11.43	13.00	
		9	2452	11.50	13.00	

<5.2GHz WLAN>

	Ant 8			Full Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	10.54	12.50	97.46
		40	5200	10.56	12.50	
		44	5220	10.63	12.50	
		48	5240	10.61	12.50	
	802.11n-HT20 MCS0	36	5180	10.38	12.00	97.30
		40	5200	10.39	12.00	
		44	5220	10.51	12.50	
		48	5240	10.51	12.50	
	802.11n-HT40 MCS0	36	5180	10.58	12.50	95.13
		46	5230	10.65	12.50	
		48	5240	10.51	12.50	
		48	5240	10.51	12.50	
	802.11ac-VHT20 MCS0	40	5200	10.50	12.50	97.31
		44	5220	10.51	12.50	
		48	5240	10.51	12.50	
		48	5240	10.51	12.50	
	802.11ac-VHT40 MCS0	38	5190	10.61	12.50	95.15
		46	5230	10.69	12.50	
	802.11ac-VHT80 MCS0	42	5210	10.25	12.00	86.54

<5.3GHz WLAN>

	Ant 8			Full Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5230	10.63	12.50	97.46
		56	5280	10.62	12.50	
		60	5300	10.57	12.50	
		64	5320	10.59	12.50	
	802.11n-HT20 MCS0	52	5280	10.52	12.50	97.30
		56	5280	10.53	12.50	
		60	5300	10.51	12.50	
		64	5320	10.41	12.00	
	802.11n-HT40 MCS0	54	5270	10.65	12.50	95.13
		62	5310	10.57	12.50	
		52	5280	10.55	12.50	
		56	5280	10.58	12.50	
	802.11ac-VHT20 MCS0	60	5300	10.52	12.50	97.31
		64	5320	10.40	12.00	
		54	5270	10.64	12.50	
		62	5310	10.70	12.50	
	802.11ac-VHT40 MCS0	54	5270	10.64	12.50	95.15
		62	5310	10.70	12.50	
	802.11ac-VHT80 MCS0	58	5290	10.17	12.00	86.54

<5.5GHz WLAN>

	Ant 8			Full Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	10.50	12.50	97.46
		116	5580	10.43	12.00	
		124	5620	10.51	12.50	
		132	5660	10.61	12.50	
		140	5700	10.70	12.50	
		144	5720	10.72	12.50	
		100	5500	10.43	12.00	
		116	5580	10.42	12.00	
	802.11n-HT20 MCS0	124	5620	10.41	12.00	97.30
		132	5660	10.51	12.50	
		140	5700	10.50	12.50	
		144	5720	10.56	12.50	
		102	5510	10.56	12.50	
		110	5550	10.55	12.50	
		126	5630	10.73	12.50	
		134	5670	10.75	12.50	
	802.11n-HT40 MCS0	142	5710	10.73	12.50	95.13
		100	5500	10.50	12.50	
		116	5580	10.45	12.00	
		124	5620	10.50	12.50	
		132	5660	10.60	12.50	
		140	5700	10.64	12.50	
		144	5720	10.53	12.50	
		102	5510	10.59	12.50	
	802.11ac-VHT20 MCS0	110	5550	10.60	12.50	97.31
		126	5630	10.50	12.50	
		134	5670	10.82	12.50	
		142	5710	10.73	12.50	
		106	5530	10.21	12.00	
		122	5610	10.21	12.00	
		138	5690	10.27	12.00	
		138	5690	10.27	12.00	

<5.8GHz WLAN>

	Ant 8			Full Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	148	5745	10.65	12.50	97.46
		157	5785	10.58	12.50	
		165	5825	10.60	12.50	
	802.11n-HT20 MCS0	148	5745	10.51	12.50	97.30
		157	5785	10.42	12.00	
		165	5825	10.51	12.50	
	802.11n-HT40 MCS0	151	5755	10.66	12.50	95.13
		159	5795	10.59	12.50	
		149	5745	10.54	12.50	
	802.11ac-VHT20 MCS0	157	5765	10.54	12.50	97.31
		165	5825	10.51	12.50	
		151	5755	10.70	12.50	
	802.11ac-VHT40 MCS0	159	5795	10.63	12.50	95.15
		155	5775	10.18	12.00	
	802.11ac-VHT80 MCS0	155	5775	10.18	12.00	86.54

<Bluetooth> Ant 6			Average power (dBm)		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	12.53	10.40	10.09
	CH 39	2442	12.26	10.05	9.77
	CH 38	2480	12.87	10.45	10.33
Turn-up Limit			14.00	12.00	11.50

BLE 1M Ant 6			Average power (dBm)		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			GFSK		
LE	CH 00	2402	4.95		
	CH 29	2440	5.16		
	CH 38	2480	5.35		
Turn-up Limit			6.50		

BLE 2M Ant 6			Average power (dBm)		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			2Mbps		
LE	CH 02	2404	4.89		
	CH 29	2440	5.15		
	CH 38	2476	5.35		
Turn-up Limit			6.50		