



Band	WCDMA II Ant0 Default			Tune-up Limit (dBm)	WCDMA IV Ant0 Default			Tune-up Limit (dBm)	WCDMA V Ant0 Default			Tune-up Limit (dBm)	
	WCDMA II				WCDMA IV				WCDMA V				
	9552	9400	9538		1512	1413	1513		4132	4182	4233		
TX Channel	9552	9400	9538	1537	1638	1738	4357	4407	4458				
Rx Channel	1852.4	1880	1907.6	1732.4	1732.6	1752.6	826.4	836.4	846.6				
Frequency (MHz)													
3GPP Rel 99	RMC 12.2Kbps	22.96	23.03	23.01	24.00	23.05	23.28	23.15	24.50	24.33	24.35	24.14	25.00
3GPP Rel 6	HSDPA Subtest-1	21.90	21.95	22.02	23.00	22.05	22.07	22.18	23.50	22.98	23.01	23.13	24.00
3GPP Rel 6	HSDPA Subtest-2	21.90	21.94	21.88	23.00	22.05	22.06	22.08	23.50	22.99	23.04	23.03	24.00
3GPP Rel 6	HSDPA Subtest-3	21.37	21.51	21.42	22.50	21.49	21.65	21.54	23.00	22.45	22.59	22.55	23.50
3GPP Rel 6	HSDPA Subtest-4	21.30	21.49	21.49	22.50	21.42	21.59	21.67	23.00	22.44	22.58	22.58	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.84	21.93	21.97	23.00	21.96	22.04	22.10	23.50	22.96	23.01	23.03	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.94	22.01	21.91	23.00	22.11	22.15	22.08	23.50	23.09	23.15	23.03	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.28	21.37	21.38	22.50	21.44	21.51	21.54	23.00	22.40	22.48	22.48	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.32	21.42	21.39	22.50	21.45	21.61	21.52	23.00	22.46	22.48	22.54	23.50
3GPP Rel 6	HSUPA Subtest-1	21.94	21.92	22.04	23.00	22.08	22.10	22.19	23.50	23.02	23.07	23.17	24.00
3GPP Rel 6	HSUPA Subtest-2	19.85	19.99	19.93	21.00	19.97	20.14	20.08	21.50	20.94	21.11	21.05	22.00
3GPP Rel 6	HSUPA Subtest-3	20.83	20.92	21.03	22.00	21.02	21.11	21.15	22.50	21.90	22.03	22.14	23.00
3GPP Rel 6	HSUPA Subtest-4	19.85	19.94	19.86	21.00	20.03	20.04	20.06	21.50	20.96	21.06	21.00	22.00
3GPP Rel 6	HSUPA Subtest-5	21.80	21.94	21.94	23.00	21.97	22.10	22.10	23.50	22.86	23.00	23.00	24.00



Band 2 Ant0 Default										
BW [MHz]	Modulat ion	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)				1860	1880	1900				
20	QPSK	1	0	22.89	23.25	23.09				
20	QPSK	1	49	22.80	23.17	23.03	24	0		
20	QPSK	1	99	22.83	23.14	23.02				
20	QPSK	50	0	22.16	22.23	22.13				
20	QPSK	50	24	22.07	22.20	22.06	23	1		
20	QPSK	50	50	22.07	22.20	22.06				
20	QPSK	100	0	22.01	22.10	22.08				
20	16QAM	1	0	22.43	22.49	22.47				
20	16QAM	1	49	22.41	22.43	22.47	23	1		
20	16QAM	1	99	22.40	22.42	22.45				
20	16QAM	50	0	21.10	21.15	21.11				
20	16QAM	50	24	21.05	21.11	21.08	22	2		
20	16QAM	50	50	21.06	21.09	21.07				
20	16QAM	100	0	21.12	21.08	21.11				
20	84QAM	1	0	21.10	21.13	21.07				
20	84QAM	1	49	21.03	21.07	21.12	22	2		
20	84QAM	1	99	21.11	21.10	21.03				
20	84QAM	50	0	20.15	20.17	20.10				
20	84QAM	50	24	20.12	20.08	20.09	21	3		
20	84QAM	50	50	20.13	20.09	20.10				
20	84QAM	100	0	20.05	19.99	20.09				
Channel										
Frequency (MHz)				1867.5	1890	1912.5	Tune-up limit (dBm)	MFR (dB)		
15	QPSK	1	0	22.86	23.14	23.05				
15	QPSK	1	49	22.74	23.09	22.99	24	0		
15	QPSK	1	99	22.76	23.04	22.97				
15	QPSK	36	0	22.08	22.16	22.10				
15	QPSK	36	20	22.02	22.12	21.98	23	1		
15	QPSK	36	39	22.05	22.13	22.05				
15	QPSK	75	0	21.93	22.03	22.05				
15	16QAM	1	0	22.24	22.16	22.10	23	1		
15	16QAM	1	37	22.32	22.34	22.36				
15	16QAM	1	74	22.33	22.37	22.34				
15	16QAM	36	0	21.07	21.06	21.03				
15	16QAM	36	20	20.96	21.09	21.01	22	2		
15	16QAM	36	39	20.98	20.98	20.99				
15	16QAM	75	0	21.08	21.06	21.02				
15	84QAM	1	0	21.09	21.10	21.00				
15	84QAM	1	37	20.93	21.01	21.03	22	2		
15	84QAM	1	74	21.04	21.06	21.00				
15	84QAM	36	0	20.08	20.10	20.08				
15	84QAM	36	20	20.04	20.00	19.99	21	3		
15	84QAM	36	39	20.05	20.01	20.03				
15	84QAM	75	0	20.01	20.01	20.05				
Channel										
Frequency (MHz)				1865	1880	1905	Tune-up limit (dBm)	MFR (dB)		
10	QPSK	1	0	22.82	23.22	23.07				
10	QPSK	1	25	22.74	23.07	22.99	24	0		
10	QPSK	1	49	22.74	23.11	22.91				
10	QPSK	25	0	22.13	22.12	22.03				
10	QPSK	25	12	21.99	22.17	21.96	23	1		
10	QPSK	25	25	22.04	22.13	21.96				
10	QPSK	50	0	21.98	22.06	22.03				
10	16QAM	1	0	22.41	22.45	22.37				
10	16QAM	1	25	22.38	22.39	22.38	23	1		
10	16QAM	1	49	22.35	22.35	22.37				
10	16QAM	25	0	21.05	21.10	21.06				
10	16QAM	25	12	20.95	21.05	21.02	22	2		
10	16QAM	25	25	20.95	21.04	21.02				
10	16QAM	50	0	21.08	21.06	21.10				
10	84QAM	1	0	21.05	21.10	21.01				
10	84QAM	1	25	20.98	21.02	21.03	22	2		
10	84QAM	1	49	21.07	21.06	20.99				
10	84QAM	25	0	20.07	20.08	20.00				
10	84QAM	25	12	20.08	20.06	20.03	21	3		
10	84QAM	25	25	20.09	20.00	20.02				
10	84QAM	50	0	20.11	20.02	20.08				
Channel										
Frequency (MHz)				1862.5	1880	1917.5	Tune-up limit (dBm)	MFR (dB)		
5	QPSK	1	0	22.84	23.17	23.06				
5	QPSK	1	12	22.75	23.14	22.93	24	0		
5	QPSK	1	24	22.77	23.10	22.98				
5	QPSK	12	0	22.13	22.22	22.12				
5	QPSK	12	7	22.05	22.16	21.98	23	1		
5	QPSK	12	13	21.97	22.19	22.04				
5	QPSK	25	0	21.96	21.99	21.98				
5	16QAM	1	0	22.28	22.29	22.37				
5	16QAM	1	12	22.34	22.32	22.43	23	1		
5	16QAM	1	24	22.37	22.37	22.37				
5	16QAM	12	0	21.00	21.09	21.01				
5	16QAM	12	7	20.98	21.08	21.04	22	2		
5	16QAM	12	13	20.97	20.99	20.98				
5	16QAM	25	0	21.01	21.06	21.07				
5	84QAM	1	0	21.06	21.12	21.00				
5	84QAM	1	12	20.96	21.05	21.05	22	2		
5	84QAM	1	24	21.08	21.06	21.02				
5	84QAM	12	0	20.08	20.15	20.05				
5	84QAM	12	7	20.09	19.99	20.03	21	3		
5	84QAM	12	13	20.10	20.05	20.02				
5	84QAM	25	0	20.07	19.99	20.05				
Channel										
Frequency (MHz)				1861.5	1880	1908.5	Tune-up limit (dBm)	MFR (dB)		
3	QPSK	1	0	22.87	23.19	23.00				
3	QPSK	1	8	22.71	23.07	23.01	24	0		
3	QPSK	1	14	22.80	23.13	23.00				
3	QPSK	8	0	22.09	22.22	22.08				
3	QPSK	8	4	22.02	22.16	22.02	23	1		
3	QPSK	8	7	21.98	22.19	21.97				
3	QPSK	15	0	21.97	21.99	22.02				
3	16QAM	1	0	22.32	22.46	22.37				
3	16QAM	1	8	22.38	22.37	22.41	23	1		
3	16QAM	1	14	22.32	22.31	22.39				
3	16QAM	8	0	20.99	21.07	21.08				
3	16QAM	8	4	21.00	21.07	21.05	22	2		
3	16QAM	8	7	21.00	21.07	20.99				
3	16QAM	15	0	21.07	21.05	21.00				
3	84QAM	1	0	21.03	21.10	21.01				
3	84QAM	1	8	20.94	20.97	21.09	22	2		
3	84QAM	1	14	21.05	21.08	20.99				
3	84QAM	8	0	20.10	20.12	20.06				
3	84QAM	8	4	20.01	19.97	20.04	21	3		
3	84QAM	8	7	20.10	20.00	20.02				
3	84QAM	15	0	20.08	19.98	20.01				
Channel										
Frequency (MHz)				1860	1880	1913	Tune-up limit (dBm)	MFR (dB)		
1.4	QPSK	1	0	22.80	23.22	23.05				
1.4	QPSK	1	3	22.71	23.14	22.99	24	0		
1.4	QPSK	1	5	22.79	23.07	22.99				
1.4	QPSK	3	0	22.84	23.21	23.06				
1.4	QPSK	3	1	22.78	23.14	23.00				
1.4	QPSK	3	3	22.82	23.11	22.97				
1.4	QPSK	6	0	22.08	22.14	22.12	23	1		
1.4	16QAM	1	0	22.07	22.21	22.03				
1.4	16QAM	1	3	22.00	22.11	21.96	23	1		
1.4	16QAM	1	5	22.04	22.15	22.00				
1.4	16QAM	3	0	22.07	22.16	22.05				
1.4	16QAM	3	1	22.06	22.11	21.99	22	2		
1.4	16QAM	3	3	21.97	22.09	22.04				
1.4	16QAM	6	0	21.04	21.01	21.06				
1.4	84QAM	1	0	20.97	21.04	21.04	22	2		
1.4	84QAM	1	3	20.98	21.02	21.03				
1.4	84QAM	1	5	21.04	21.05	21.04				
1.4	84QAM	3	0	21.02	21.08	21.04	22	2		
1.4	84QAM	3	1	20.94	21.05	21.0				



Band 7 Ant0 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				2350	2100	2350				
Frequency (MHz)				2310	2335	2360				
10	QPSK	1	0	21.57	21.76	21.88				
20	QPSK	1	49	21.63	21.58	21.54	22.5	0		
20	QPSK	1	99	21.58	21.57	21.50				
20	QPSK	50	0	20.41	20.53	20.38				
20	QPSK	50	24	20.37	20.44	20.40	21.5	1		
20	QPSK	50	50	20.40	20.45	20.41				
20	QPSK	100	0	20.22	20.33	20.25				
20	16QAM	1	0	19.60	19.66	19.61				
20	16QAM	1	49	19.57	19.62	19.54	21.5	1		
20	16QAM	1	99	19.62	19.59	19.55				
20	16QAM	50	0	19.24	19.29	19.21				
20	16QAM	50	24	19.10	19.22	19.17	20.5	2		
20	16QAM	50	50	19.22	19.21	19.19				
20	16QAM	100	0	19.23	19.25	19.23				
20	64QAM	1	0	19.74	19.82	19.82				
20	64QAM	1	49	19.73	19.77	19.76	20.5	2		
20	64QAM	1	99	19.66	19.76	19.66				
20	64QAM	50	0	19.18	19.34	19.28				
20	64QAM	50	24	19.20	19.31	19.25				
20	64QAM	50	50	19.22	19.31	19.18	19.5	3		
20	64QAM	100	0	19.25	19.26	19.26				
Channel				20625	21100	21375				
Frequency (MHz)				20705	20335	20625				
15	QPSK	1	0	21.51	21.71	21.90				
15	QPSK	1	37	21.55	21.52	21.49	22.5	0		
15	QPSK	1	74	21.53	21.53	21.42				
15	QPSK	36	0	20.35	20.47	20.30				
15	QPSK	36	20	20.30	20.38	20.37	21.5	1		
15	QPSK	36	39	20.34	20.41	20.38				
15	QPSK	75	0	20.16	20.29	20.19				
15	16QAM	1	0	19.52	19.63	19.58				
15	16QAM	1	37	19.55	19.59	19.61	21.5	1		
15	16QAM	1	74	19.58	19.55	19.52				
15	16QAM	36	0	19.17	19.25	19.19				
15	16QAM	36	20	19.06	19.18	19.14	20.5	2		
15	16QAM	36	39	19.18	19.16	19.15				
15	16QAM	75	0	19.20	19.23	19.16				
15	64QAM	1	0	19.69	19.74	19.77				
15	64QAM	1	37	19.65	19.73	19.68	20.5	2		
15	64QAM	1	74	19.59	19.73	19.61				
15	64QAM	36	0	19.11	19.30	19.22				
15	64QAM	36	20	19.13	19.25	19.19	19.5	3		
15	64QAM	36	39	19.17	19.28	19.14				
15	64QAM	75	0	19.18	19.21	19.19				
Channel				20910	21100	21400				
Frequency (MHz)				20905	20335	20605				
10	QPSK	1	0	21.51	21.69	21.61				
10	QPSK	1	25	21.59	21.56	21.46	22.5	0		
10	QPSK	1	49	21.52	21.52	21.43				
10	QPSK	25	0	20.36	20.50	20.31				
10	QPSK	25	12	20.30	20.38	20.34	21.5	1		
10	QPSK	25	25	20.38	20.39	20.38				
10	QPSK	50	0	20.19	20.30	20.21				
10	16QAM	1	0	19.53	19.58	19.57				
10	16QAM	1	25	19.51	19.57	19.61	21.5	1		
10	16QAM	1	49	19.56	19.52	19.61				
10	16QAM	25	0	19.20	19.22	19.16				
10	16QAM	25	12	19.04	19.16	19.11	20.5	2		
10	16QAM	25	25	19.14	19.15	19.15				
10	16QAM	50	0	19.19	19.22	19.18				
10	64QAM	1	0	19.69	19.76	19.77				
10	64QAM	1	25	19.69	19.69	19.70	20.5	2		
10	64QAM	1	49	19.59	19.70	19.60				
10	64QAM	25	0	19.12	19.30	19.22				
10	64QAM	25	12	19.17	19.27	19.22	19.5	3		
10	64QAM	25	25	19.20	19.25	19.19				
10	64QAM	50	0	19.19	19.18	19.23				
Channel				20775	21100	21425				
Frequency (MHz)				20705	20335	20675				
5	QPSK	1	0	21.52	21.71	21.84				
5	QPSK	1	12	21.55	21.54	21.52	22.5	0		
5	QPSK	1	24	21.52	21.50	21.46				
5	QPSK	12	0	20.36	20.49	20.31				
5	QPSK	12	7	20.33	20.33	20.32	21.5	1		
5	QPSK	12	13	20.34	20.41	20.37				
5	QPSK	25	0	20.15	20.27	20.23				
5	16QAM	1	0	19.57	19.58	19.58				
5	16QAM	1	12	19.51	19.60	19.61	21.5	1		
5	16QAM	1	24	19.58	19.52	19.50				
5	16QAM	12	0	19.17	19.23	19.16				
5	16QAM	12	7	19.04	19.20	19.13	20.5	2		
5	16QAM	12	13	19.19	19.17	19.12				
5	16QAM	25	0	19.16	19.23	19.15				
5	64QAM	1	0	19.67	19.79	19.79				
5	64QAM	1	12	19.66	19.69	19.71	20.5	2		
5	64QAM	1	24	19.59	19.73	19.61				
5	64QAM	12	0	19.15	19.30	19.21				
5	64QAM	12	7	19.14	19.25	19.20	19.5	3		
5	64QAM	12	13	19.17	19.27	19.12				
5	64QAM	25	0	19.22	19.22	19.18				

Band 12 Ant0 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23000	23095	23190				
Frequency (MHz)				704	707	711				
10	QPSK	1	0	23.56	23.83	23.39				
10	QPSK	1	25	23.74	23.81	23.76	25	0		
10	QPSK	1	49	23.66	23.73	23.67				
10	QPSK	25	0	22.67	22.71	22.66				
10	QPSK	25	12	22.57	22.67	22.61	24	1		
10	QPSK	25	25	22.52	22.62	22.52				
10	QPSK	50	0	22.58	22.58	22.59				
10	16QAM	1	0	22.63	22.68	22.63				
10	16QAM	1	25	22.62	22.66	22.60	24	1		
10	16QAM	1	49	22.60	22.63	22.56				
10	16QAM	25	0	21.92	21.96	21.80				
10	16QAM	25	12	21.79	21.81	21.74	23	2		
10	16QAM	25	25	21.78	21.78	21.69				
10	16QAM	50	0	21.84	21.85	21.82				
10	64QAM	1	0	21.72	21.82	21.81				
10	64QAM	1	25	21.67	21.74	21.67	23	2		
10	64QAM	1	49	21.73	21.74	21.69				
10	64QAM	25	0	20.64	20.75	20.68				
10	64QAM	25	12	20.74	20.83	20.78	22	3		
10	64QAM	25	25	20.77	20.82	20.72				
10	64QAM	50	0	20.81	20.86	20.82				
Channel				23035	23095	23155				
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	23.51	23.77	23.33				
5	QPSK	1	12	23.71	23.72	23.68	25	0		
5	QPSK	1	24	23.60	23.69	23.63				
5	QPSK	12	0	22.64	22.63	22.59				
5	QPSK	12	7	22.47	22.62	22.50	24	1		
5	QPSK	12	13	22.46	22.52	22.42				
5	QPSK	25	0	22.48	22.66	22.50				
5	16QAM	1	0	22.57	22.58	22.55				
5	16QAM	1	12	22.57	22.62	22.50	24	1		
5	16QAM	1	24	22.55	22.60	22.48				
5	16QAM	12	0	21.72	21.83	21.72				
5	16QAM	12	7	21.70	21.70	21.65	23	2		
5	16QAM	12	13	21.66	21.71	21.66				
5	16QAM	25</								



Band 25 Ant0 Default												
BW (MHz)	Modulat ion	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel 2615 26340 26615												
Frequency (MHz) 1800 1820 1840												
20	QPSK	1	0	22.83	22.85	22.79						
20	QPSK	1	49	22.73	22.83	22.80	24	0				
20	QPSK	1	99	22.68	22.75	22.65						
20	QPSK	50	0	21.93	22.01	22.00						
20	QPSK	50	24	21.96	22.06	21.85	23	1				
20	QPSK	50	50	21.86	21.97	21.86						
20	QPSK	100	0	21.91	21.99	21.95						
20	16QAM	1	0	21.82	21.92	21.84						
20	16QAM	1	49	21.86	21.91	21.84	23	1				
20	16QAM	1	99	21.91	21.93	21.89						
20	16QAM	50	0	20.52	20.62	20.61						
20	16QAM	50	24	20.58	20.60	20.49	22	2				
20	16QAM	50	50	20.56	20.59	20.54						
20	16QAM	100	0	20.53	20.58	20.49						
20	64QAM	1	0	20.68	20.75	20.70						
20	64QAM	1	49	20.48	20.53	20.43	22	2				
20	64QAM	1	99	20.48	20.57	20.48						
20	64QAM	50	0	19.62	19.65	19.63						
20	64QAM	50	24	19.52	19.62	19.55	21	3				
20	64QAM	50	50	19.62	19.64	19.61						
20	64QAM	100	0	19.59	19.61	19.57						
Channel 26115 26340 26615												
Frequency (MHz) 1875 1880 1907.5												
15	QPSK	1	0	22.80	22.78	22.78						
15	QPSK	1	37	22.70	22.79	22.70	24	0				
15	QPSK	1	74	22.65	22.74	22.54						
15	QPSK	36	0	21.89	21.92	21.93						
15	QPSK	36	20	21.88	21.89	21.86	23	1				
15	QPSK	36	39	21.86	21.90	21.84						
15	QPSK	75	0	21.85	21.94	21.88						
15	16QAM	1	0	21.76	21.89	21.81						
15	16QAM	1	37	21.77	21.82	21.82	23	1				
15	16QAM	1	74	21.88	21.88	21.85						
15	16QAM	36	0	20.48	20.52	20.59						
15	16QAM	36	20	20.50	20.49	20.48	22	2				
15	16QAM	36	39	20.46	20.53	20.49						
15	16QAM	75	0	20.48	20.57	20.48						
15	64QAM	1	0	20.66	20.67	20.64						
15	64QAM	1	37	20.47	20.45	20.38	22	2				
15	64QAM	1	74	20.40	20.53	20.40						
15	64QAM	36	0	19.54	19.63	19.54						
15	64QAM	36	20	19.48	19.52	19.51	21	3				
15	64QAM	36	39	19.56	19.58	19.53						
15	64QAM	75	0	19.52	19.51	19.49						
Channel 26300 26340 26640												
Frequency (MHz) 1855 1880 1910												
10	QPSK	1	0	22.77	22.76	22.71						
10	QPSK	1	25	22.67	22.80	22.77	24	0				
10	QPSK	1	49	22.64	22.74	22.61						
10	QPSK	25	0	21.83	21.92	21.96						
10	QPSK	25	12	21.89	21.89	21.87	23	1				
10	QPSK	25	25	21.86	21.91	21.76						
10	QPSK	50	0	21.87	21.88	21.85						
10	16QAM	1	0	21.75	21.85	21.82						
10	16QAM	1	25	21.83	21.88	21.77	23	1				
10	16QAM	1	49	21.85	21.91	21.80						
10	16QAM	25	0	20.42	20.38	20.56						
10	16QAM	25	12	20.52	20.57	20.44	22	2				
10	16QAM	25	25	20.50	20.51	20.48						
10	16QAM	50	0	20.44	20.55	20.47						
10	64QAM	1	0	20.60	20.69	20.63						
10	64QAM	1	25	20.39	20.42	20.34	22	2				
10	64QAM	1	49	20.46	20.56	20.45						
10	64QAM	25	0	19.59	19.57	19.57						
10	64QAM	25	12	19.42	19.59	19.51	21	3				
10	64QAM	25	25	19.57	19.54	19.60						
10	64QAM	50	0	19.51	19.52	19.49						
Channel 26055 26340 26655												
Frequency (MHz) 1825 1880 1912.5												
5	QPSK	1	0	22.74	22.84	22.69						
5	QPSK	1	25	22.70	22.79	22.66	24	0				
5	QPSK	1	24	22.60	22.70	22.61						
5	QPSK	12	0	21.88	21.99	21.97						
5	QPSK	12	7	21.83	21.82	21.81	23	1				
5	QPSK	12	13	21.84	21.95	21.80						
5	QPSK	25	0	21.85	21.91	21.94						
5	16QAM	1	0	21.73	21.86	21.76						
5	16QAM	1	12	21.85	21.84	21.81	23	1				
5	16QAM	1	24	21.86	21.84	21.82						
5	16QAM	12	0	20.46	20.55	20.50						
5	16QAM	12	7	20.53	20.56	20.46	22	2				
5	16QAM	12	13	20.47	20.52	20.51						
5	16QAM	25	0	20.49	20.56	20.42						
5	64QAM	1	0	20.65	20.68	20.60						
5	64QAM	1	12	20.38	20.51	20.34	22	2				
5	64QAM	1	24	20.40	20.54	20.38						
5	64QAM	12	0	19.61	19.56	19.60						
5	64QAM	12	7	19.44	19.61	19.49	21	3				
5	64QAM	12	13	19.54	19.56	19.51						
5	64QAM	25	0	19.57	19.54	19.54						
Channel 26055 26340 26675												
Frequency (MHz) 1851.5 1880 1913.5												
3	QPSK	1	0	22.79	22.83	22.73						
3	QPSK	1	8	22.72	22.81	22.72	24	0				
3	QPSK	1	14	22.58	22.67	22.54						
3	QPSK	8	0	21.87	21.92	21.94						
3	QPSK	8	4	21.81	21.89	21.80	23	1				
3	QPSK	8	7	21.88	21.92	21.82						
3	QPSK	15	0	21.82	21.92	21.94						
3	16QAM	1	0	21.80	21.86	21.77						
3	16QAM	1	8	21.76	21.83	21.80	23	1				
3	16QAM	1	14	21.82	21.82	21.86						
3	16QAM	8	0	20.41	20.52	20.38						
3	16QAM	8	4	20.49	20.51	20.43	22	2				
3	16QAM	8	7	20.53	20.58	20.47						
3	16QAM	15	0	20.50	20.50	20.46						
3	64QAM	1	0	20.57	20.72	20.60						
3	64QAM	1	8	20.41	20.51	20.38	22	2				
3	64QAM	1	14	20.44	20.53	20.38						
3	64QAM	8	0	19.52	19.62	19.58						
3	64QAM	8	4	19.44	19.60	19.48	21	3				
3	64QAM	8	7	19.56	19.55	19.54						
3	64QAM	15	0	19.53	19.60	19.50						
Channel 26047 26340 26683												
Frequency (MHz) 1830.7 1880 1914.3												
1.4	QPSK	1	0	22.77	22.81	22.76						
1.4	QPSK	1	3	22.72	22.75	22.74						
1.4	QPSK	1	5	22.65	22.72	22.56	24	0				
1.4	QPSK	3	0	22.78	22.75	22.70						
1.4	QPSK	3	1	22.64	22.73	22.75						
1.4	QPSK	3	3	22.66	22.72	22.56						
1.4	QPSK	6	0	21.87	21.89	21.91	23	1				
1.4	16QAM	1	0	21.74	21.91	21.79						
1.4	16QAM	1	3	21.81	21.81	21.75						
1.4	16QAM	1	5	21.87	21.83	21.80	23	1				
1.4	16QAM	3	0	21.82	21.92	21.86						
1.4	16QAM	3	1	21.78	21.83	21.75						
1.4	16QAM	3	3	21.76	21.89	21.76						
1.4	16QAM	6	0	20.50	20.52	20.44	22	2				
1.4	64QAM	1	0	20.62	20.74	20.60						
1.4	64QAM	1	3	20.38	20.45	20.36						
1.4	64QAM	1	5	20.38	20.50	20.41	22	2				
1.4	64QAM	3	0	20.64	20.69	20.62						
1.4	64QAM	3	1	20.46	20.43	20.33						
1.4	64QAM	3	3	20.40	20.52	20.42						
1.4	64QAM	6	0	19.51	19.54	19.49	21	3				

Band 26 Ant0 Default												
BW (MHz)	Modulat ion	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel 821 831 841.5												
Frequency (MHz) 2422 2448 2423												
15	QPSK	1	0	24.22	24.48	24.23						
15	QPSK	1	37	24.34	24.42	24.32	25	0				
15	QPSK	1	74	24.36	24.44	24.34						
15	QPSK	36	0	23.22	23.27	23.20						
15	QPSK	36	20	23.21	23.25	23.14	25	1				
15	QPSK	36	39	23.14	23.17	23.09						
15	QPSK	75	0	23.20	23.29	23.21						
15	16QAM	1	0	22.71	22.78	22.76						
15	16QAM	1	37	22.67	22.73	22.65	24	1				
15	16QAM	1	74	22.74	22.75	22.69						
15	16QAM	36	0	22.01	22.07	22.04						
15	16QAM	36	20	21.99	22.02	21.98	23	2				
15	16QAM	36	39	21.96	22.02	21.99						
15	16QAM	75	0	22.01	22.06	22.03						
15	64QAM	1	0	21.60	21.65	21.64						
15	64QAM	1	37	21.52	21.56	21.53	23	2				
15	64QAM	1	74	21.60	21.63	21.59						
15	64QAM	36	0	21.27	21.32	21.07						
15	64QAM	36	20	20.95	21.02	20.95	22	3				
15	64QAM	36	39	21.01	21.09	21.02						
15	64QAM	75	0	20.91	21.02	20.98						



Band 38 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.14	22.37	22.27			
20	QPSK	1	49	22.21	22.29	22.25	24	0	
20	QPSK	1	99	22.27	22.34	22.31			
20	QPSK	50	0	22.19	22.27	22.23			
20	QPSK	50	24	22.09	22.18	22.14	24	0	
20	QPSK	50	50	22.13	22.21	22.16			
20	QPSK	100	0	22.14	22.24	22.17			
20	16QAM	1	0	22.11	22.19	22.13			
20	16QAM	1	49	22.22	22.24	22.23	24	0	
20	16QAM	1	99	22.17	22.20	22.13			
20	16QAM	50	0	21.28	21.37	21.27			
20	16QAM	50	24	21.18	21.28	21.17			
20	16QAM	50	50	21.20	21.28	21.20	23	1	
20	16QAM	100	0	21.26	21.29	21.19			
20	64QAM	1	0	20.74	20.77	20.68			
20	64QAM	1	49	20.58	20.68	20.57	22	2	
20	64QAM	1	99	20.71	20.74	20.64			
20	64QAM	50	0	20.50	20.60	20.50			
20	64QAM	50	24	20.59	20.67	20.58			
20	64QAM	50	50	20.66	20.72	20.70	22	2	
20	64QAM	100	0	20.62	20.73	20.65			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2612.5			
15	QPSK	1	0	22.08	22.30	22.10			
15	QPSK	1	37	22.14	22.19	22.23	24	0	
15	QPSK	1	74	22.18	22.28	22.23			
15	QPSK	36	0	22.08	22.18	22.20			
15	QPSK	36	20	22.12	22.08	22.12			
15	QPSK	36	39	22.05	22.12	22.07	24	0	
15	QPSK	75	0	22.05	22.19	22.08			
15	16QAM	1	0	22.06	22.12	22.02			
15	16QAM	1	37	22.14	22.16	22.22	24	0	
15	16QAM	1	74	22.06	22.15	22.11			
15	16QAM	36	0	21.25	21.31	21.24			
15	16QAM	36	20	21.09	21.18	21.06			
15	16QAM	36	39	21.17	21.21	21.11	23	1	
15	16QAM	75	0	21.17	21.28	21.11			
15	64QAM	1	0	20.70	20.76	20.65			
15	64QAM	1	37	20.56	20.57	20.53	22	2	
15	64QAM	1	74	20.64	20.69	20.54			
15	64QAM	36	0	20.48	20.59	20.42			
15	64QAM	36	20	20.54	20.64	20.49			
15	64QAM	36	39	20.59	20.69	20.66	22	2	
15	64QAM	75	0	20.51	20.71	20.63			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.08	22.33	22.17			
10	QPSK	1	25	22.14	22.22	22.22	24	0	
10	QPSK	1	49	22.23	22.26	22.24			
10	QPSK	25	0	22.15	22.25	22.14			
10	QPSK	25	12	22.06	22.14	22.09			
10	QPSK	25	25	22.12	22.12	22.12	24	0	
10	QPSK	50	0	22.07	22.22	22.13			
10	16QAM	1	0	22.09	22.11	22.04			
10	16QAM	1	25	22.19	22.20	22.14	24	0	
10	16QAM	1	49	22.09	22.17	22.05			
10	16QAM	25	0	21.20	21.29	21.18			
10	16QAM	25	12	21.11	21.24	21.14			
10	16QAM	25	25	21.12	21.24	21.11	23	1	
10	16QAM	50	0	21.17	21.25	21.09			
10	64QAM	1	0	20.73	20.72	20.60			
10	64QAM	1	25	20.52	20.66	20.49	22	2	
10	64QAM	1	49	20.61	20.64	20.54			
10	64QAM	25	0	20.40	20.58	20.47			
10	64QAM	25	12	20.53	20.57	20.50			
10	64QAM	25	25	20.57	20.69	20.67	22	2	
10	64QAM	50	0	20.55	20.62	20.59			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	22.05	22.28	22.21			
5	QPSK	1	12	22.16	22.20	22.18	24	0	
5	QPSK	1	24	22.21	22.28	22.23			
5	QPSK	12	0	22.12	22.19	22.16			
5	QPSK	12	7	22.01	22.11	22.05			
5	QPSK	12	13	22.07	22.12	22.07	24	0	
5	QPSK	25	0	22.04	22.15	22.11			
5	16QAM	1	0	22.05	22.13	22.04			
5	16QAM	1	12	22.13	22.20	22.13	24	0	
5	16QAM	1	24	22.08	22.13	22.04			
5	16QAM	12	0	21.22	21.27	21.21			
5	16QAM	12	7	21.09	21.18	21.12			
5	16QAM	12	13	21.16	21.15	21.13	23	1	
5	16QAM	25	0	21.22	21.27	21.17			
5	64QAM	1	0	20.68	20.66	20.61			
5	64QAM	1	12	20.52	20.65	20.54	22	2	
5	64QAM	1	24	20.66	20.69	20.59			
5	64QAM	12	0	20.47	20.50	20.44			
5	64QAM	12	7	20.56	20.63	20.54			
5	64QAM	12	13	20.57	20.70	20.65	22	2	
5	64QAM	25	0	20.53	20.68	20.63			

Band 41 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Low Ch. / Freq.	Power Middle High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				40140	40400	40670	41140		
Frequency (MHz)				2545	2571	2598	2645		
20	QPSK	1	0	22.97	23.04	22.86	23.75		
20	QPSK	1	49	22.87	22.95	22.87	23.70	24	0
20	QPSK	1	99	22.91	22.94	22.93	23.74		
20	QPSK	50	0	21.78	21.87	21.86	22.75		
20	QPSK	50	24	21.74	21.79	21.74	22.69	23	1
20	QPSK	50	50	21.67	21.77	21.73	22.64		
20	QPSK	100	0	21.79	21.84	21.79	22.70		
20	16QAM	1	0	21.72	21.75	21.64	22.69		
20	16QAM	1	49	21.76	21.79	21.74	22.64	23	1
20	16QAM	1	99	21.75	21.81	21.73	22.58		
20	16QAM	50	0	20.79	20.88	20.84	21.62		
20	16QAM	50	24	21.62	21.64	21.59	21.54		
20	16QAM	50	50	21.62	21.70	21.67	21.52	22	2
20	16QAM	100	0	21.58	21.68	21.66	21.61		
20	64QAM	1	0	20.12	20.17	20.09	21.08		
20	64QAM	1	49	20.00	20.09	20.01	21.02	22	2
20	64QAM	1	99	20.04	20.13	20.09	21.03		
20	64QAM	50	0	19.92	19.94	19.88	20.72		
20	64QAM	50	24	19.85	19.96	19.79	20.67	21	3
20	64QAM	50	50	19.77	19.85	19.81	20.64		
20	64QAM	100	0	19.79	19.85	19.81	20.67		
Channel				40115	40395	40685	41165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2542.5	2570.5	2598.5	2647.5		
15	QPSK	1	0	22.93	22.98	22.80	23.73		
15	QPSK	1	37	22.81	22.88	22.86	23.63	24	0
15	QPSK	1	74	22.88	22.91	22.84	23.65		
15	QPSK	36	0	21.76	21.86	21.80	22.69		
15	QPSK	36	20	21.68	21.75	21.69	22.67		
15	QPSK	36	39	21.65	21.70	21.69	22.53	23	1
15	QPSK	75	0	21.74	21.74	21.78	22.60		
15	16QAM	1	0	21.70	21.69	21.57	22.58		
15	16QAM	1	37	21.70	21.68	21.71	22.62	23	1
15	16QAM	1	74	21.73	21.73	21.65	22.49		
15	16QAM	36	0	20.68	20.81	20.77	21.54		
15	16QAM	36	20	21.61	21.60	21.51	21.52		
15	16QAM	36	39	21.59	21.69	21.65	21.47	22	2
15	16QAM	75	0	21.55	21.66	21.64	21.57		
15	64QAM	1	0	20.09	20.07	20.07	21.04		
15	64QAM	1	37	20.03	20.00	20.07	20.98	22	2
15	64QAM	1	74	20.10	20.03	20.00	20.92		
15	64QAM								

## WLAN/Bluetooth Power

2.4GHz WLAN				Ant. 1		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b 1Mbps	1	2412	17.17	18.00	98.53	
	6	2437	17.29	18.00		
	11	2462	17.21	18.00		
802.11g 6Mbps	1	2412	15.46	16.50	97.46	
	6	2437	15.52	16.50		
	11	2462	15.42	16.50		
802.11n-HT20 MCS0	1	2412	14.29	15.50	97.30	
	6	2437	14.34	15.50		
	11	2462	14.17	15.00		
802.11n-HT40 MCS0	3	2422	13.56	14.50	92.52	
	6	2437	14.28	15.50		
	9	2452	14.35	15.50		

5.2GHz WLAN				Ant. 1		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	15.23	16.00	97.46	
	40	5200	15.30	16.00		
	44	5220	15.18	16.00		
802.11n-HT20 MCS0	48	5240	15.20	16.00	97.28	
	36	5180	13.17	14.00		
	40	5200	13.29	14.00		
802.11n-HT40 MCS0	44	5220	13.25	14.00	94.46	
	48	5240	13.13	14.00		
	38	5190	13.20	14.00		
802.11ac-VHT20 MCS0	46	5230	13.28	14.00	97.30	
	38	5180	15.27	16.00		
	40	5200	15.31	16.00		
802.11ac-VHT40 MCS0	44	5220	15.33	16.00	94.95	
	48	5240	15.25	16.00		
	38	5190	13.24	14.00		
802.11ac-VHT80 MCS0	46	5230	13.31	14.00	98.47	
	42	5210	11.45	12.00		

5.3GHz WLAN				Ant. 1		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	52	5260	15.16	16.00	97.46	
	56	5280	15.09	16.00		
	60	5300	15.12	16.00		
	64	5320	14.93	16.00		
802.11n-HT20 MCS0	52	5260	13.09	14.00	97.28	
	56	5280	12.98	14.00		
	60	5300	13.01	14.00		
	64	5320	12.79	14.00		
802.11n-HT40 MCS0	54	5270	13.17	14.00	94.46	
	62	5310	12.90	14.00		
	52	5260	15.19	16.00		
	56	5280	15.17	16.00		
802.11ac-VHT20 MCS0	60	5300	15.21	16.00	97.30	
	64	5320	14.99	16.00		
	54	5270	13.22	14.00		
	62	5310	12.93	14.00		
802.11ac-VHT40 MCS0	58	5290	11.12	12.00	98.47	
	58	5290	11.12	12.00		

5.5GHz WLAN				Ant. 1		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	100	5500	15.06	16.00	97.46	
	116	5580	15.14	16.00		
	132	5660	15.15	16.00		
	140	5700	15.16	16.00		
802.11n-HT20 MCS0	100	5500	13.26	14.50	97.28	
	116	5580	13.33	14.50		
	132	5660	13.29	14.50		
	140	5700	13.30	14.50		
802.11n-HT40 MCS0	102	5510	13.19	14.50	94.46	
	110	5550	13.31	14.50		
	134	5670	13.27	14.50		
802.11ac-VHT20 MCS0	100	5500	15.39	16.00	97.30	
	116	5580	15.26	16.00		
	132	5660	15.17	16.00		
	140	5700	15.22	16.00		
802.11ac-VHT40 MCS0	102	5510	13.21	14.50	94.95	
	110	5550	13.34	14.50		
	134	5670	13.27	14.50		
802.11ac-VHT80 MCS0	106	5530	11.37	12.50	98.47	

5.8GHz WLAN				Ant. 1		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	149	5745	15.22	16.00	97.46	
	157	5785	15.03	16.00		
	165	5825	14.50	15.50		
802.11n-HT20 MCS0	149	5745	13.35	14.50	97.28	
	157	5785	13.27	14.50		
	165	5825	12.94	14.00		
802.11n-HT40 MCS0	151	5755	13.29	14.50	94.46	
	159	5795	13.00	14.00		
	149	5745	15.28	16.00		
802.11ac-VHT20 MCS0	157	5785	15.09	16.00	97.30	
	165	5825	14.94	16.00		
	151	5755	13.31	14.50		
802.11ac-VHT40 MCS0	159	5795	13.01	14.00	94.95	
	155	5775	11.15	12.00		
802.11ac-VHT80 MCS0	155	5775	11.15	12.00	98.47	

**BT BR/EDR** **ANT1**

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	10.49	7.11	7.90	11.50
	CH 39	2441	11.18	8.96	8.87	12.00
	CH 78	2480	11.19	8.82	8.95	12.00

**BLE 1M** **ANT1**

Mode	Channel	Frequency (MHz)	Average power (dBm)		Tune-up Limit
			1Mbps	2Mbps	
LE	CH 00	2402	4.69		5.50
	CH 19	2440	6.05		7.00
	CH 39	2480	5.88		7.00