



ANT 0

GSM: ant 0 Full Power

Band: GSM 850			Burst Average Power (dBm)			Frame-Average Power(dBm)		
Channel	128	190	251	128	190	251		
Frequency (MHz)	824.2	836.6	848.8	824.2	836.6	848.8		
GSM (GMSK, Voice)	33.28	33.65	33.34	24.25	24.62	24.31		
GPRS (GMSK, 1 TX slot)	33.28	33.63	33.33	24.25	24.60	24.30		
GPRS (GMSK, 2 TX slots)	32.24	32.62	32.25	26.22	26.60	26.23		
GPRS (GMSK, 3 TX slots)	29.64	30.04	29.61	25.38	25.78	25.35		
GPRS (GMSK, 4 TX slots)	27.99	28.40	27.91	24.98	25.39	24.90		
EGPRS (8PSK, 1 TX slot)	26.95	27.09	27.04	17.92	18.06	18.01		
EGPRS (8PSK, 2 TX slots)	25.81	26.02	25.94	19.79	20.00	19.92		
EGPRS (8PSK, 3 TX slots)	23.66	23.79	23.76	19.40	19.53	19.50		
EGPRS (8PSK, 4 TX slots)	22.15	22.29	22.37	19.14	19.28	19.36		

WCDMA: ant 0 Full Power

WCDMA Average power (dBm)			
Band	WCDMA Band V		
Channel	4132	4183	4233
Frequency (MHz)	826.4	836.6	846.6
AMR 12.2 kbps	22.67	22.83	22.72
RMC 12.2 kbps	23.10	23.21	23.10
HSDPA Sub-test 1	22.32	22.40	22.32
HSDPA Sub-test 2	21.77	21.88	21.79
HSDPA Sub-test 3	21.84	21.92	21.85
HSDPA Sub-test 4	21.79	21.87	21.81
HSUPA Sub-test 1	20.30	20.38	20.29
HSUPA Sub-test 2	20.77	20.87	20.80
HSUPA Sub-test 3	21.31	21.40	21.29
HSUPA Sub-test 4	20.30	20.40	20.31
HSUPA Sub-test 5	22.32	22.41	22.31

GSM: ant 0 Full Power

Band: PCS 1900			Burst Average Power (dBm)			Frame-Average Power(dBm)		
Channel	512	661	810	512	661	810		
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8		
GSM (GMSK, Voice)	29.89	30.10	30.02	20.86	21.07	20.99		
GPRS (GMSK, 1 TX slot)	29.89	30.16	30.08	20.86	21.13	21.05		
GPRS (GMSK, 2 TX slots)	29.10	29.34	29.24	23.08	23.32	23.22		
GPRS (GMSK, 3 TX slots)	27.01	27.31	27.16	22.75	23.05	22.90		
GPRS (GMSK, 4 TX slots)	25.68	25.96	25.91	22.67	22.95	22.90		
EGPRS (8PSK, 1 TX slot)	25.99	26.32	26.18	16.96	17.29	17.15		
EGPRS (8PSK, 2 TX slots)	24.83	25.11	25.09	18.81	19.09	19.07		
EGPRS (8PSK, 3 TX slots)	22.71	23.04	22.97	18.45	18.78	18.71		
EGPRS (8PSK, 4 TX slots)	21.45	21.74	21.58	18.44	18.73	18.57		

WCDMA: ant 0 Full Power

WCDMA Average power (dBm)						
Band	WCDMA Band IV			WCDMA Band II		
Channel	1312	1413	1513	9262	9400	9538
Frequency (MHz)	1712.4	1732.6	1752.6	1852.4	1880	1907.6
AMR 12.2 kbps	22.71	22.86	22.51	22.88	23.02	23.33
RMC 12.2 kbps	22.68	22.87	22.54	22.93	23.03	23.38
HSDPA Sub-test 1	21.72	21.89	21.54	21.96	22.05	22.40
HSDPA Sub-test 2	21.21	21.42	21.06	21.40	21.51	21.84
HSDPA Sub-test 3	21.25	21.44	21.07	21.44	21.54	21.87
HSDPA Sub-test 4	21.27	21.41	21.05	21.41	21.50	21.90
HSUPA Sub-test 1	19.71	19.86	19.52	19.85	19.97	20.27
HSUPA Sub-test 2	20.21	20.37	20.00	20.36	20.49	20.82
HSUPA Sub-test 3	20.69	20.85	20.50	20.89	21.00	21.28
HSUPA Sub-test 4	19.72	19.87	19.51	19.91	19.99	20.28
HSUPA Sub-test 5	21.71	21.86	21.53	21.88	21.98	22.29

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NR n5 part ant 0 Full Power

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					165800	167300	168800
n5	30	10		12G6 DFT BPSK	23.05	22.98	22.89
				16R1 DFT BPSK	23.01	22.92	22.85
				16R2 DFT BPSK	23.00	22.92	22.77
				12G6 DFT QPSK	23.12	23.05	22.91
				16R1 DFT QPSK	22.94	22.90	22.78
				16R2 DFT QPSK	22.93	22.84	22.74
				12G6 DFT QAM16	22.10	22.10	21.98
				16R1 DFT QAM16	22.23	22.35	21.98
				16R2 DFT QAM16	22.12	22.19	22.05
				12G6 DFT QAM64	20.73	20.84	20.46
				16R1 DFT QAM64	20.53	20.50	20.35
				16R2 DFT QAM64	20.33	20.43	20.21
				12G6 DFT QAM256	18.63	18.52	18.39
				16R1 DFT QAM256	18.69	18.84	18.73
				16R2 DFT QAM256	18.77	18.43	18.69
				12G6 CP QPSK	21.59	21.49	21.41
				16R1 CP QPSK	21.73	21.54	21.53
				16R2 CP QPSK	21.55	21.51	21.62
				12G6 CP QAM16	21.19	21.01	20.97
				16R1 CP QAM16	21.45	21.03	20.71
				16R2 CP QAM16	20.69	21.08	20.69
				12G6 CP QAM64	19.56	19.49	19.35
				16R1 CP QAM64	19.77	19.61	19.61
				16R2 CP QAM64	19.57	19.63	19.58
				12G6 CP QAM256	16.53	16.52	16.36
				16R1 CP QAM256	16.84	16.28	16.19
				16R2 CP QAM256	16.80	16.78	16.72

NR n12 part ant 0 Full Power

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					148800	141500	142200
n12	30	10		12G6 DFT BPSK	22.84	22.84	22.78
				16R1 DFT BPSK	22.82	22.87	22.85
				16R2 DFT BPSK	22.81	22.72	22.72
				12G6 DFT QPSK	22.85	22.85	22.91
				16R1 DFT QPSK	22.85	22.68	22.78
				16R2 DFT QPSK	22.81	22.73	22.71
				12G6 DFT QAM16	21.89	21.99	21.85
				16R1 DFT QAM16	21.61	21.59	22.10
				16R2 DFT QAM16	21.59	21.59	21.54
				12G6 DFT QAM64	20.35	20.34	20.23
				16R1 DFT QAM64	20.22	20.19	20.28
				16R2 DFT QAM64	20.26	20.19	20.17
				12G6 DFT QAM256	18.41	18.44	18.37
				16R1 DFT QAM256	18.55	18.66	18.18
				16R2 DFT QAM256	18.16	18.63	18.08
				12G6 CP QPSK	21.35	21.37	21.34
				16R1 CP QPSK	21.20	21.21	21.25
				16R2 CP QPSK	21.19	21.15	21.19
				12G6 CP QAM16	20.65	20.92	20.88
				16R1 CP QAM16	20.88	20.69	20.95
				16R2 CP QAM16	20.95	20.73	20.90
				12G6 CP QAM64	19.30	19.45	19.23
				16R1 CP QAM64	19.36	19.69	19.69
				16R2 CP QAM64	19.70	19.62	19.39
				12G6 CP QAM256	16.47	16.40	16.38
				16R1 CP QAM256	16.45	16.39	16.45
				16R2 CP QAM256	16.69	16.39	16.57

NR n66 part ant 0 Full Power

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					343000	349000	355000
n66	30	10		12G6 DFT BPSK	23.07	22.96	22.86
				16R1 DFT BPSK	22.92	22.68	22.74
				16R2 DFT BPSK	22.91	22.87	22.78
				12G6 DFT QPSK	23.08	22.95	22.90
				16R1 DFT QPSK	22.92	22.80	22.65
				16R2 DFT QPSK	22.86	22.79	22.64
				12G6 DFT QAM16	22.17	22.06	21.90
				16R1 DFT QAM16	22.18	22.03	22.04
				16R2 DFT QAM16	22.22	22.07	22.06
				12G6 DFT QAM64	20.52	20.40	20.38
				16R1 DFT QAM64	20.54	20.19	20.34
				16R2 DFT QAM64	20.67	20.65	20.55
				12G6 DFT QAM256	18.58	18.33	18.42
				16R1 DFT QAM256	18.12	18.08	17.87
				16R2 DFT QAM256	18.42	18.03	17.87
				12G6 CP QPSK	21.54	21.45	21.27
				16R1 CP QPSK	21.45	21.38	21.12
				16R2 CP QPSK	21.69	21.28	21.11
				12G6 CP QAM16	21.17	21.07	21.04
				16R1 CP QAM16	20.88	20.97	20.56
				16R2 CP QAM16	20.97	20.93	20.63
				12G6 CP QAM64	19.44	19.42	19.35
				16R1 CP QAM64	19.81	19.63	19.22
				16R2 CP QAM64	19.81	19.51	19.65
				12G6 CP QAM256	16.31	16.40	16.34
				16R1 CP QAM256	17.12	16.88	16.60
				16R2 CP QAM256	17.11	16.67	16.68

NR Band	SCS (KHz)	Bandwidth (MHz)	RB Allocation	Modulation	Average Power (dBm)		
					343000	349000	354000
n66	30	15		12G6 DFT BPSK	22.90	22.80	22.60
				16R1 DFT BPSK	22.96	22.91	22.78
				16R2 DFT BPSK	22.99	22.83	22.80
				12G6 DFT QPSK	23.12	22.98	22.93
				16R1 DFT QPSK	22.86	22.74	22.69
				16R2 DFT QPSK	22.84	22.84	22.68
				12G6 DFT QAM16	22.05	21.91	21.85
				16R1 DFT QAM16	22.15	21.99	21.98
				16R2 DFT QAM16	22.12	21.96	21.87
				12G6 DFT QAM64	20.63	20.36	20.31
				16R1 DFT QAM64	20.89	20.37	20.63
				16R2 DFT QAM64	20.85	20.68	20.47
				12G6 DFT QAM256	18.65	18.31	18.31
				16R1 DFT QAM256	18.61	18.40	18.18
				16R2 DFT QAM256	17.99	18.23	17.83
				12G6 CP QPSK	21.65	21.51	21.51
				16R1 CP QPSK	21.51	21.59	21.59
				16R2 CP QPSK	21.41	21.27	21.08
				12G6 CP QAM16	21.14	21.02	20.93
				16R1 CP QAM16	21.14	21.11	20.95
				16R2 CP QAM16	21.14	21.02	20.93
				12G6 CP QAM64	19.37	19.51	19.16
				16R1 CP QAM64	19.55	19.03	19.06
				16R2 CP QAM64	19.61	18.44	18.31
				12G6 CP QAM256	16.70	16.57	16.61
				16R1 CP QAM256	16.79	16.65	16.66

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ANT 5

LTE Band 7 part ant 5 ENDC Power

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					2070.5 MHz (2110.5 MHz)			
					2070.5 MHz	2110.5 MHz	2150.5 MHz	2190.5 MHz
Band 7	5	QPSK	16QAM	1	0	21.95	20.95	20.95
				1	12	21.93	20.98	20.95
				1	24	21.95	21.00	21.01
				12	0	20.87	19.90	19.85
				12	6	20.88	19.92	19.88
				12	11	20.90	19.89	19.90
				1	0	20.95	19.94	19.95
				1	0	21.00	19.99	20.11
				1	12	20.94	19.96	20.16
				1	24	20.97	20.02	20.21
64QAM				12	0	19.91	18.91	18.95
				12	6	19.94	18.94	19.02
				12	11	19.93	18.96	19.03
				25	0	19.98	18.92	18.95
				1	0	20.22	19.08	19.21
				1	12	20.20	19.09	19.19
				1	24	20.22	19.13	19.24
				12	0	18.94	17.85	17.91
				12	6	18.92	17.83	17.91
				12	11	18.94	17.85	17.95

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					2085.5 MHz	2110.5 MHz	2150.5 MHz	2190.5 MHz
Band 7	10	QPSK	1	0	20.96	20.98	20.94	20.94
			1	24	20.96	21.03	20.95	20.95
			1	49	20.94	20.98	20.98	20.98
			25	0	19.94	20.05	20.06	20.06
			25	12	19.96	20.04	20.05	20.05
			25	24	19.96	20.05	20.05	20.05
			50	0	19.98	20.04	20.04	20.04
			1	0	20.13	20.32	20.07	20.07
			1	24	20.13	20.35	20.13	20.13
			1	49	20.11	20.36	20.11	20.11
64QAM			25	0	18.93	19.01	19.08	19.08
			25	12	18.93	19.01	19.12	19.12
			25	24	18.93	19.01	19.12	19.12
			50	0	18.94	19.02	19.08	19.08
			1	0	19.75	19.00	18.70	18.70
			1	24	18.88	19.06	18.75	18.75
			1	49	19.79	19.05	18.75	18.75
			25	12	19.05	19.00	19.05	19.05
			25	24	19.04	18.00	18.00	18.02
			50	0	19.02	17.92	17.91	17.91

LTE Band	Bandwidth (MHz)	Modulation n	RB Size	RB Offset	Average Power (dBm)			
					2092.5 MHz	2110.5 MHz	2150.5 MHz	2190.5 MHz
QPSK	15	16QAM	1	0	21.94	20.95	20.95	
			1	37	22.03	21.07	21.04	
			1	74	22.02	21.01	21.01	
			36	0	21.06	20.07	20.07	
			36	16	21.05	20.08	20.04	
			36	35	21.05	20.03	20.05	
			75	0	21.05	20.05	20.05	
			1	0	21.36	20.35	20.40	
			1	37	21.49	20.42	20.48	
			1	74	21.47	20.41	20.47	
64QAM	15	16QAM	36	0	20.17	19.11	19.14	
			36	16	20.17	19.10	19.13	
			36	35	20.16	19.10	19.13	
			75	0	20.09	19.00	19.08	
			1	0	20.31	19.01	19.16	
			1	37	20.33	19.15	19.28	
			1	74	20.28	19.01	19.24	
			36	0	19.09	18.05	18.01	
			36	16	19.07	18.10	18.03	
			36	35	19.08	18.05	18.03	
		75	0	19.06	17.93	17.99		

LTE Bands	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					2085.5 MHz	2110.5 MHz	2150.5 MHz	2190.5 MHz	
Band 7	20	QPSK	1	0	21.88	21.07	20.81		
			1	49	21.98	21.20	21.00		
			1	99	21.93	21.16	21.02		
			50	0	21.08	20.14	20.05		
			50	24	21.09	20.12	20.08		
			50	49	21.05	20.13	20.09		
			100	0	21.15	20.06	20.06		
			1	0	21.30	19.77	20.30		
			1	49	21.44	19.92	20.45		
			1	99	21.38	19.85	20.45		
Band 7	20	16QAM	50	0	20.05	19.12	19.08		
			50	24	20.06	19.13	19.09		
			50	49	20.04	19.12	19.08		
			100	0	20.10	19.03	19.05		
			1	0	20.30	19.17	19.23		
			1	49	20.43	19.32	19.41		
			1	99	20.30	19.20	19.31		
			64QAM	50	0	18.96	18.08	17.94	
				50	24	18.94	18.08	17.96	
				50	49	18.94	18.07	17.95	
100	0	19.00		17.94	17.95				

LTE Band 41 part ant 5 ENDC Power

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					2087.5 MHz	4014.5 MHz	4060.5 MHz	4106.5 MHz	4156.5 MHz
QPSK	5	16QAM	1	0	21.45	20.74	20.42	20.63	20.20
			1	12	21.43	20.72	20.36	20.60	20.01
			1	24	21.46	20.74	20.40	20.63	20.02
			12	0	20.57	19.67	19.17	19.50	19.02
			12	6	20.24	19.66	19.18	19.50	19.08
			12	11	20.25	19.67	19.15	19.50	19.07
			25	0	20.28	19.65	19.16	19.51	19.10
			1	0	20.56	20.02	19.47	19.63	19.49
			1	12	20.55	19.99	19.43	19.60	19.43
			1	24	20.57	20.01	19.42	19.61	19.44
64QAM	5	16QAM	12	0	19.21	18.65	18.11	18.47	18.09
			12	6	19.21	18.66	18.13	18.48	18.11
			12	11	19.23	18.69	18.12	18.50	18.14
			25	0	19.26	18.67	18.15	18.49	18.07
			1	0	19.86	18.61	18.10	18.64	18.37
			1	12	19.83	18.32	18.15	18.53	18.81
			1	24	19.86	18.33	18.14	18.53	18.79
			12	0	18.40	17.83	17.27	17.71	17.46
			12	6	18.41	17.84	17.25	17.71	17.46
			12	11	18.40	17.84	17.27	17.71	17.47

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					2097.5 MHz	4016.5 MHz	4060.5 MHz	4106.5 MHz	4156.5 MHz
Band 41	10	QPSK	1	0	21.22	20.64	20.22	20.50	20.14
			1	24	21.28	20.71	20.24	20.55	20.14
			1	49	21.29	20.68	20.19	20.52	20.17
			25	0	20.23	19.68	19.14	19.50	19.13
			25	12	20.24	19.69	19.12	19.50	19.12
			25	24	20.21	19.67	19.13	19.49	19.12
			50	0	20.27	19.71	19.16	19.53	19.15
			1	0	20.15	19.61	19.51	19.57	19.06
			1	24	20.19	19.67	19.59	19.64	19.15
			1	49	20.19	19.65	19.52	19.61	19.11
64QAM			25	0	19.26	18.71	18.20	18.54	18.15
			25	12	19.26	18.71	18.20	18.54	18.15
			25	24	19.26	18.71	18.22	18.54	18.15
			50	0	19.21	18.66	18.16	18.49	18.10
			1	0	19.22	18.31	18.00	18.42	17.40
			1	24	19.27	18.77	18.70	18.75	18.27
			1	49	19.27	18.73	18.64	18.70	18.18
			25	12	18.43	17.90	17.38	17.72	17.39
			25	24	18.40	17.90	17.39	17.72	17.34
			50	0	18.39	17.90	17.39	17.73	17.41

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					2097.5 MHz	4017.5 MHz	4060.5 MHz	4106.5 MHz	4156.5 MHz
QPSK	1	0	21.37	20.78	20.22	20.59	20.20		
	1	37	21.45	20.88	20.25	20.60	20.20		
	74	21.33	20.74	20.19	20.56	20.20			
	38	0	20.21	19.64	19.14	19.47	19.07		
	38	16	20.19	19.64	19.13	19.47	19.09		
	38	20	20.20	19.64	19.13	19.47	19.07		
	75	0	20.34	19.69	19.18	19.51	19.13		
	1	0	20.34	19.69	19.54	19.62	19.08		
	38	0	20.34	19.76	19.57	19.70	19.18		
	1	74	20.20	19.69	19.48	19.62	19.12		
15	38	0	19.22	18.69	18.15	18.51	18.10		
	38	16	19.22	18.66	18.15	18.49	18.10		
	38	35	19.22	18.68	18.13	18.62	17.13		
	75	0	19.25	18.69	18.15	18.51	18.10		
	0	19.78	18.61	18.13	18.40	18.43			
	1	37	19.78	18.34	18.75	19.17	18.79		
	74	19.78	19.38	18.61	19.06	18.77			
	0	18.48	17.97	17.38	17.77	17.46			
	38	16	18.47	17.90	17.38	17.77	17.45		
	0	18.47	17.96	17.38	17.77	17.46			
64QAM	0	18.48	17.97	17.38	17.77	17.46			



ANT 6

2.4GWi-Fi ant 6 Full Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 b	802.11 g	802.11n (HT20)
CH 01	2412	16.44	12.48	13.04
CH 06	2437	16.39	12.28	12.60
CH 11	2462	17.45	13.11	13.67

Average Power (dBm)		
Channel	Frequency (MHz)	802.11n (HT40)
CH 03	2422	12.07
CH 06	2437	12.59
CH 09	2452	13.03

Bluetooth ant 6 Full Power

Average Power (dBm)				
Channel	Frequency (MHz)	GFSK	$\pi/4$ -DQPSK	8DPSK
CH 00	2402	9.24	9.29	9.15
CH 39	2441	11.68	11.80	11.65
CH 78	2480	10.90	11.00	10.89

Average Power (dBm)					
Channel	Frequency (MHz)	BLE PHY1M	BLE PHY2M	BLE CodedPHY S=2	BLE CodedPHY S=8
CH 00	2402	3.65	3.62	3.64	3.63
CH 20	2442	5.14	5.09	5.14	5.12
CH 39	2480	4.15	4.33	4.14	4.08

ANT 7

2.4GWi-Fi ant 7 Full Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 b	802.11 g	802.11n (HT20)
CH 01	2412	16.02	12.64	12.89
CH 06	2437	16.45	12.85	13.18
CH 11	2462	16.80	13.25	13.60

Average Power (dBm)		
Channel	Frequency (MHz)	802.11n (HT40)
CH 03	2422	12.89
CH 06	2437	12.98
CH 09	2452	13.25

Bluetooth ant 7 Full Power

Average Power (dBm)				
Channel	Frequency (MHz)	GFSK	$\pi/4$ -DQPSK	8DPSK
CH 00	2402	6.01	7.35	7.41
CH 39	2441	7.38	8.47	8.11
CH 78	2480	8.31	8.10	8.00

Average Power (dBm)					
Channel	Frequency (MHz)	BLE PHY1M	BLE PHY2M	BLE CodedPHY S=2	BLE CodedPHY S=8
CH 00	2402	2.49	2.48	2.49	2.46
CH 20	2442	4.02	4.01	4.02	3.97
CH 39	2480	3.51	3.54	3.51	3.48



ANT 6

5.2GWi-Fi ant 6 Full Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 n20
CH 36	5180	13.07	12.08	13.11
CH 40	5200	13.06	11.85	12.73
CH 48	5240	13.85	12.57	13.69

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 38	5190	11.34	12.85
CH 46	5230	11.53	13.35

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 58	5290	11.2

5.8GWi-Fi ant 6 Full Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 n20
CH 149	5745	12.91	11.70	12.71
CH 157	5785	14.05	13.10	13.88
CH 165	5825	13.11	11.91	13.01

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 151	5755	10.95	12.89
CH 159	5795	12.16	13.67

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 155	5775	11.36

NFC ANT

Mode	Power (dBm)
NFC	-41.13