



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)	33.52	33.68	33.59	24.49	24.65	24.56
GPRS (GMSK, 1 TX slot)	33.48	33.62	33.53	24.45	24.59	24.50
GPRS (GMSK, 2 TX slots)	32.53	32.67	32.58	26.51	26.65	26.56
GPRS (GMSK, 3 TX slots)	30.54	30.68	30.61	26.28	26.42	26.35
GPRS (GMSK, 4 TX slots)	29.52	29.66	29.55	26.51	26.65	26.54
EGPRS (8PSK, 1 TX slot)	27.90	28.01	27.94	18.87	18.98	18.91
EGPRS (8PSK, 2 TX slots)	26.85	26.78	26.73	20.83	20.76	20.71
EGPRS (8PSK, 3 TX slots)	24.67	24.61	24.56	20.41	20.35	20.30
EGPRS (8PSK, 4 TX slots)	23.43	23.45	23.40	20.42	20.44	20.39

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)	30.54	30.41	30.36	21.51	21.38	21.33
GPRS (GMSK, 1 TX slot)	30.50	30.36	30.30	21.47	21.33	21.27
GPRS (GMSK, 2 TX slots)	29.34	29.19	29.17	23.32	23.17	23.15
GPRS (GMSK, 3 TX slots)	27.25	27.10	27.10	22.99	22.84	22.84
GPRS (GMSK, 4 TX slots)	26.42	26.29	26.30	23.41	23.28	23.29
EGPRS (8PSK, 1 TX slot)	26.42	26.41	26.47	17.39	17.38	17.44
EGPRS (8PSK, 2 TX slots)	25.18	25.26	25.35	19.16	19.24	19.33
EGPRS (8PSK, 3 TX slots)	23.08	23.17	23.25	18.82	18.91	18.99
EGPRS (8PSK, 4 TX slots)	21.81	21.86	22.01	18.80	18.85	19.00

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	23.71	23.74	23.73
RMC 12.2 kbps	23.66	23.73	23.74
HSDPA Sub-test 1	22.88	22.96	22.95
HSDPA Sub-test 2	22.37	22.45	22.45
HSDPA Sub-test 3	22.43	22.48	22.46
HSDPA Sub-test 4	22.39	22.44	22.44
HSUPA Sub-test 1	20.87	20.92	20.91
HSUPA Sub-test 2	21.31	21.38	21.33
HSUPA Sub-test 3	21.84	21.89	21.87
HSUPA Sub-test 4	20.90	20.94	20.92
HSUPA Sub-test 5	22.89	22.95	22.95

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	23.18	23.35	23.24	23.73	23.71	23.83
RMC 12.2 kbps	23.26	23.35	23.26	23.81	23.85	23.92
HSDPA Sub-test 1	22.30	22.37	22.25	22.90	22.90	22.99
HSDPA Sub-test 2	21.81	21.88	21.76	22.35	22.41	22.47
HSDPA Sub-test 3	21.86	21.90	21.79	22.40	22.44	22.50
HSDPA Sub-test 4	21.79	21.87	21.76	22.38	22.44	22.52
HSUPA Sub-test 1	20.28	20.31	20.19	20.85	20.84	20.95
HSUPA Sub-test 2	20.79	20.83	20.73	21.35	21.39	21.44
HSUPA Sub-test 3	21.25	21.32	21.23	21.86	21.86	21.95
HSUPA Sub-test 4	20.28	20.35	20.21	20.85	20.88	20.97
HSUPA Sub-test 5	22.31	22.37	22.24	22.86	22.89	23.00



ANT 0

LTE Band 2 part ant 0 Full Power

Cell	Band	Power	Frequency	Cell ID	Signal	Reference	Distance	Area	Path Loss	SNR	SNR Margin	RSRP	RSRQ	SINR	DL SNR	DL SINR	DL SNR Margin	DL RSRP	DL RSRQ	DL SINR	DL SNR Margin
Band 2	14	0.1	875.0	10000	CPUS	10000	0.0	0.0	147.5	13.0	13.0	-114.5	13.0	13.0	13.0	13.0	13.0	-114.5	13.0	13.0	13.0
Band 2	14	0.1	875.0	10000	CPUS	10000	10000.0	10000.0	147.5	13.0	13.0	-114.5	13.0	13.0	13.0	13.0	13.0	-114.5	13.0	13.0	13.0

LTE Band 5 part ant 0 Full Power

Cell	Band	Power	Frequency	Cell ID	Signal	Reference	Distance	Area	Path Loss	SNR	SNR Margin	RSRP	RSRQ	SINR	DL SNR	DL SINR	DL SNR Margin	DL RSRP	DL RSRQ	DL SINR	DL SNR Margin
Band 5	14	0.1	875.0	10000	CPUS	10000	0.0	0.0	147.5	13.0	13.0	-114.5	13.0	13.0	13.0	13.0	13.0	-114.5	13.0	13.0	13.0
Band 5	14	0.1	875.0	10000	CPUS	10000	10000.0	10000.0	147.5	13.0	13.0	-114.5	13.0	13.0	13.0	13.0	13.0	-114.5	13.0	13.0	13.0

LTE Band 7 part ant 0 Full Power

Cell	Band	Power	Frequency	Cell ID	Signal	Reference	Distance	Area	Path Loss	SNR	SNR Margin	RSRP	RSRQ	SINR	DL SNR	DL SINR	DL SNR Margin	DL RSRP	DL RSRQ	DL SINR	DL SNR Margin
Band 7	14	0.1	875.0	10000	CPUS	10000	0.0	0.0	147.5	13.0	13.0	-114.5	13.0	13.0	13.0	13.0	13.0	-114.5	13.0	13.0	13.0
Band 7	14	0.1	875.0	10000	CPUS	10000	10000.0	10000.0	147.5	13.0	13.0	-114.5	13.0	13.0	13.0	13.0	13.0	-114.5	13.0	13.0	13.0

LTE Band 12 part ant 0 Full Power

Cell	Band	Power	Frequency	Cell ID	Signal	Reference	Distance	Area	Path Loss	SNR	SNR Margin	RSRP	RSRQ	SINR	DL SNR	DL SINR	DL SNR Margin	DL RSRP	DL RSRQ	DL SINR	DL SNR Margin
Band 12	14	0.1	875.0	10000	CPUS	10000	0.0	0.0	147.5	13.0	13.0	-114.5	13.0	13.0	13.0	13.0	13.0	-114.5	13.0	13.0	13.0
Band 12	14	0.1	875.0	10000	CPUS	10000	10000.0	10000.0	147.5	13.0	13.0	-114.5	13.0	13.0	13.0	13.0	13.0	-114.5	13.0	13.0	13.0

LTE Band 41 part ant 0 Full Power

Cell	Band	Power	Frequency	Cell ID	Signal	Reference	Distance	Area	Path Loss	SNR	SNR Margin	RSRP	RSRQ	SINR	DL SNR	DL SINR	DL SNR Margin	DL RSRP	DL RSRQ	DL SINR	DL SNR Margin
Band 41	14	0.1	875.0	10000	CPUS	10000	0.0	0.0	147.5	13.0	13.0	-114.5	13.0	13.0	13.0	13.0	13.0	-114.5	13.0	13.0	13.0
Band 41	14	0.1	875.0	10000	CPUS	10000	10000.0	10000.0	147.5	13.0	13.0	-114.5	13.0	13.0	13.0	13.0	13.0	-114.5	13.0	13.0	13.0

LTE Band 66 part ant 0 Full Power

Cell	Band	Power	Frequency	Cell ID	Signal	Reference	Distance	Area	Path Loss	SNR	SNR Margin	RSRP	RSRQ	SINR	DL SNR	DL SINR	DL SNR Margin	DL RSRP	DL RSRQ	DL SINR	DL SNR Margin
Band 66	14	0.1	875.0	10000	CPUS	10000	0.0	0.0	147.5	13.0	13.0	-114.5	13.0	13.0	13.0	13.0	13.0	-114.5	13.0	13.0	13.0
Band 66	14	0.1	875.0	10000	CPUS	10000	10000.0	10000.0	147.5	13.0	13.0	-114.5	13.0	13.0	13.0	13.0	13.0	-114.5	13.0	13.0	13.0



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	16.30	12.14	11.56
CH 06	2437	15.62	13.15	13.01
CH 11	2462	16.80	14.23	14.09

Average Power (dBm)		
Channel	Frequency (MHz)	802.11n (HT40)
CH 03	2422	11.25
CH 06	2437	13.14
CH 09	2452	13.44

Bluetooth ant 6 Full Power

Average Power (dBm)				
Channel	Frequency (MHz)	GFSK	$\pi/4$ -DQPSK	8DPSK
CH 00	2402	8.25	8.25	8.28
CH 39	2441	9.80	8.87	8.74
CH 78	2480	6.06	9.63	9.40

Average Power (dBm)					
Channel	Frequency (MHz)	BLE PHY1M	BLE PHY2M	BLE CodedPHY S=2	BLE CodedPHY S=8
CH 00	2402	-5.40	-5.45	-5.39	-5.46
CH 20	2442	-3.84	-3.90	-3.82	-3.88
CH 39	2480	-5.30	-5.31	-5.25	-5.33

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	16.27	13.72	13.63
CH 06	2437	16.31	13.86	13.74
CH 11	2462	16.65	14.28	14.16

Average Power (dBm)		
Channel	Frequency (MHz)	802.11n (HT40)
CH 03	2422	13.30
CH 06	2437	13.50
CH 09	2452	13.65

Bluetooth ant 7 Full Power

Average Power (dBm)				
Channel	Frequency (MHz)	GFSK	$\pi/4$ -DQPSK	8DPSK
CH 00	2402	8.24	8.40	8.27
CH 39	2441	10.62	10.55	10.43
CH 78	2480	9.71	9.75	9.62

Average Power (dBm)					
Channel	Frequency (MHz)	BLE PHY1M	BLE PHY2M	BLE CodedPHY S=2	BLE CodedPHY S=8
CH 00	2402	-5.36	-5.41	-5.35	-5.37
CH 20	2442	-3.80	-3.83	-3.77	-3.81
CH 39	2480	-4.64	-4.65	-4.62	-4.64



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	12.60	12.46	13.47
CH 40	5200	12.06	11.75	12.92
CH 48	5240	13.12	12.72	14.00

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 38	5190	12.09	14.02
CH 46	5230	12.28	14.28

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 58	5290	11.36

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	12.21	11.95	12.98
CH 157	5785	13.66	13.59	14.65
CH 165	5825	12.90	12.67	13.64

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 151	5755	11.08	13.22
CH 159	5795	12.56	14.29

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 155	5775	11.65

NFC ANT

Mode	Power (dBm)
NFC	-43.86