

August 30, 2005

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Subject: Response to the FCC Correspondence Reference # 22673 for additional information on RIM BlackBerry Wireless Handheld FCC ID: L6ARAR20CN, 731 Confirmation # TC257023

Dear Martin:

The following addresses the comment on your **Correspondence Reference # 22673**, dated August 25, 2005.

- 1) Please provide the linear modulation factors used for determining targets as referenced on page 8.

In the following table, the linear modulation factors have been added and the Table 4, page 8 of the test report has been updated.

f (MHz)	Signal Type	Average power (dBm)	Mod. Factor Input P (dB)	Mod. Factor Input P Linear	Pulse Average Power (dBm)	Measured E-Field (V/m)	Target E-Field (V/m)	Delta (%)	Mod. Factor Ratio
835	CW	20	0	1.00	20	164.6	160.4	+ 2.6	-
835	80 % AM	14.9	5.1	1.80	20	105.5	89.2*	+18.3	1.56
835	CDMA full rate (Signal generator)	20	0	1.00	20	152.7	160.4*	-4.8	1.08
835	CW	12.6	7.4	2.34	12.6	72.7	68.4*	+6.3	-
835	CDMA 1/8 gating (WD)	3.4	9.2	2.88	12.6	25.1	23.7*	+5.8	2.90
1880	CW	20	-	-	20	128.2	135.4	- 5.3	-
1880	80 % AM	15.0	5	1.78	20	82.6	76.1*	+8.48	1.55
1880	CDMA full rate (Signal generator)	20.0	0	1.00	20	120.7	135.4*	-10.9	1.06

f (MHz)	Signal Type	Average power (dBm)			Pulse Average Power (dBm)	Measured H-Field (A/m)	Target H-Field (A/m)	Delta (%)	Mod. Factor Ratio
835	CW	20	0	1.00	20	0.470	0.442	+ 6.3	-
835	80 % AM	14.9	5.1	1.80	20	0.302	0.246*	+22.9	1.56
835	CDMA full rate (Signal generator)	20	0	1.00	20	0.441	0.442*	-0.2	1.07
835	CW	12.6	7.4	2.34	12.6	0.197	0.189*	4.5	-
835	CDMA 1/8 gating (WD)	3.4	9.2	2.88	12.6	0.080	0.065*	22.4	2.46
1880	CW	20	0	1.00	20	0.420	0.444	- 5.4	-
1880	80 % AM	15.0	5	1.78	20	0.276	0.250*	+10.5	1.52
1880	CDMA full rate (Signal generator)	20	0	1.0	20	0.427	0.444*	-3.8	0.98

Dipole Validation and Modulation Factors

*Not an official target value. Neither ANSI C63.19 nor the probe manufacturer give target values for AM and WD signals. The only available target values are for 20dBm CW signals.

Therefore, from the ratio of average input powers, the modulation factor target was determined for AM and WD signals. The manufacturer target value for CW was divided by the theoretical linear modulation factor to find target values for AM and WD signals. Please note that C63.19 requires values to be within 25% of their targets.

- 2) Please provide details of the 1/8 gate mode of the WD. Please include 0 span plots.

The duty cycle of the CDMA2000 signal during any frame equals to: 1/2, 1/4, 1/8 or full data rate. The basestation simulator was set to send a command to the wireless handheld to transmit at 1/8 data rate or 12.5 % duty cycle.



0 Hz Span CDMA Full Rate Plot (1880MHz)



0 Hz Span CDMA 1/8 Gating Plot (1880MHz)

Please do not hesitate to contact the undersigned should you have any questions.

Yours truly,



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