ERICSSON 📕		Open EXHIBIT 12			1 (13)
Prepared (also subject responsible if other)		No.			
EAB/RWG/RB Larry Lindström		B5KAKRB1011112-2			
Approved	Checked	Date	Rev	Reference	
KI/EAB/RWG/RB (L Lindström)		2003-12-19	А		

Exhibit 12 – Cover Sheet

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1 2.1033(c) Circuit Description

1.1 (2) FCC Identifier: B5KAKRB1011112-2

This MCPA (Multi Carrier Power Amplifier) consist of one power amplifier operating in the frequency band of 1930 to 1990 MHz. The amplifier is capable of operation in a WCDMA system.

1.2 (4) Type of Emission: N/A

The MCPA is a plain power amplifier:

1.3 (5) Frequency range: 1930 to 1970 MHz

The output signal from the MCPA passes a cavity band pass filter in the antenna interface system (AIU) which pass band is 1930 to 1970 MHz.

1.4 (6) Range of Operating Power:

This transmitter is designed to supply a nominal power level of 43 dBm at the antenna connector at the AIU.

1.5 (7) Maximum Power Rating:

The maximum power rating with one TRX under environmental and supply voltage variations is equal to 43 dBm plus a power level tolerance of + 1.0 dB. Therefore the maximum output power is 44 dBm equal to 25 W at the antenna connector (AIU) of the radio base station.

This output is linked to the input signal to the AIU which shall be maximized to 8.5 dBm.

1.6 (8) Final Amplifier Voltage and Current in normal operation

	Average Output Power 43 dBm			
	Values for V2001, V2002			
Collector Voltage	28.0 Volt DC			
Collector Current	7.5 Amps DC			

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1.7 (10) Frequency Stabilizing Circuit Description

The MCPA is a plain power amplifier:

1.8 (10) Spurious and Harmonic Suppression

The output signal from MCPA passes a cavity band pass filter in the antenna interface system (AIU).

1.9 (10) Limiting Power

The MCPA measures the output power at its output connector via a RF-detector and the detected value is used by the power loop control block to steer the three amplifiers between the input and the output of the amplifier.

1.10 (10) Digital Modulation QPSK

The power amplifier is intended for amplification of QPSK-modulated signals in a WCDMA system.