FCC Compliance Statement

General Information:

Applicant: Schlumberger
ACS Project: 02-0118
FCC ID: F9CSMFMM-1
Device Category: Mobile Device
Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Integrated Patch
Antenna Gain: 2 dBi
Transmitter Conducted Power: 24dBm
System EIRP: 407mW
Operating Configuration: Wall Mounted
Exposure Conditions: Usually greater than 20cm from the population

MPE Calculation

The minimum separation distance is calculated as follows:

$E(V/m) = \frac{\sqrt{30xPxG}}{d}$ Power Density: $P_d = (mW/cm^2) = \frac{E^2}{3770}$

MPE Distance

MPE Calculator for 900MHz Mobile Equipment Limits for General Population/Uncontrolled Exposure*					
Transmit Freq. (MHz)	**Radio Power (dBm)**	**Antenna Gain (dBi)**	**Sytem EIRP (mW)**	**MPE Limit (mW/cm2)**	**MPE Distance (cm)**
900	24	2.1	407.38	0.60	4.41

Installation Guidelines
The installation manual will contain the following text advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

"This equipment complies with the FCC RF radiation requirements for uncontrolled environments. To maintain compliance with these requirements, the antenna and any radiating elements should be installed to ensure that a minimum separation distance of 20cm is maintained from the general population"

Conclusion
This device complies with the MPE requirements by providing adequate separation between the device and any radiating structure and the general population.