

Poynting Antennas

Test results

Antenna adapter ADPT-026 with

- HSPA modems Option iCon 431 and iCon401 and
- Poynting antennas OMNI-A0121



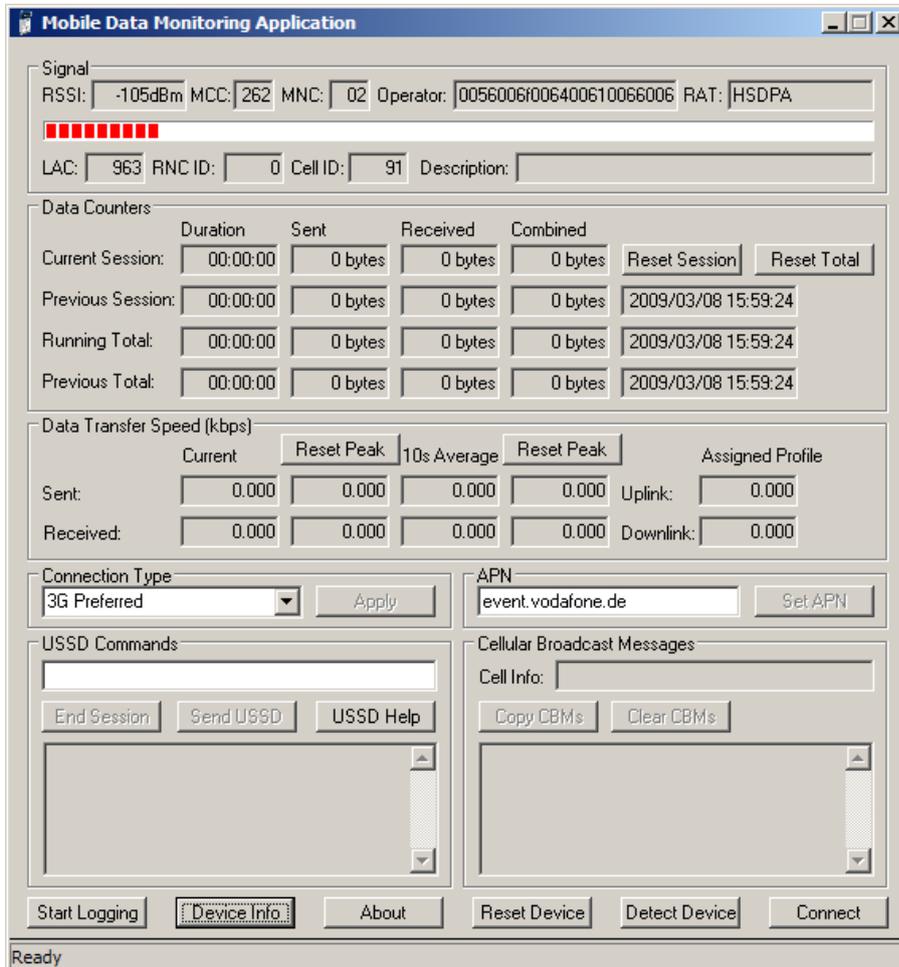
Contact: www.poynting-antennas.com, info@poynting-antennas.com
March 2009

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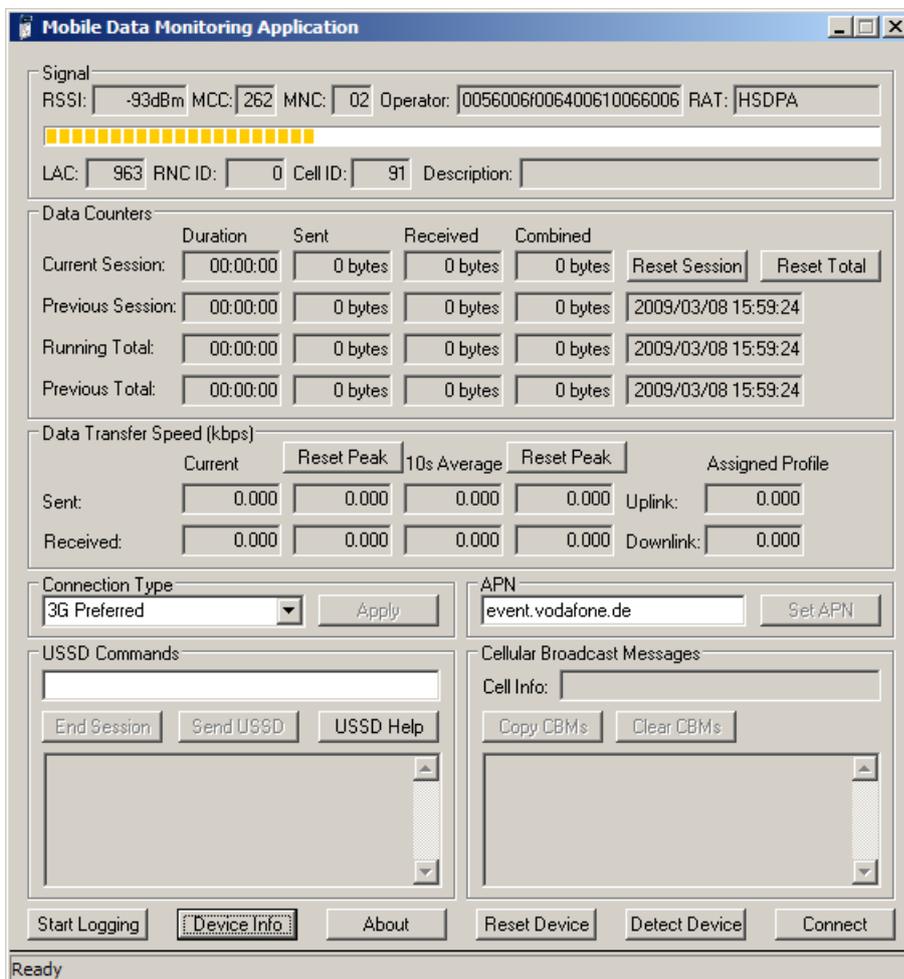
09/03/2009 - Page 1 of 7

Option iCon 431: Test ADPT-026 with OMNI-A0121 outside on ground level. Location of modem: basement office. No connection possible with internal modem antenna.

Internal antenna: very weak signal at -105dBm, no connection



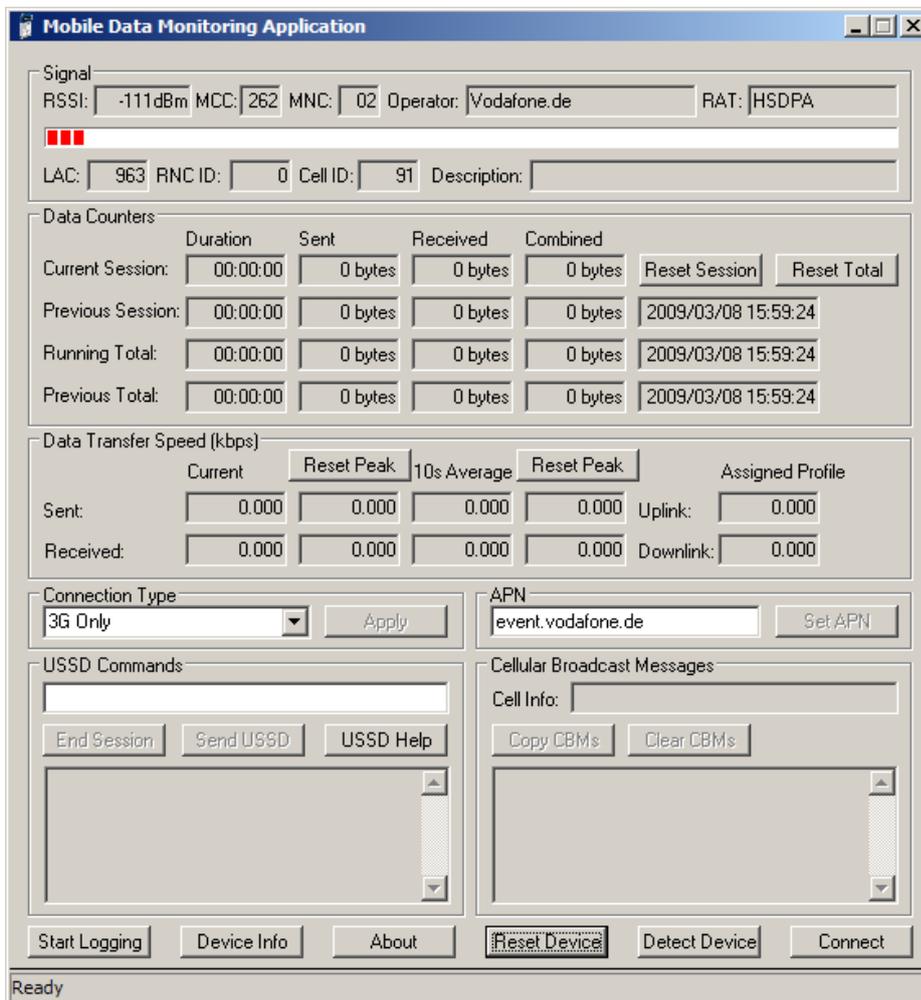
Connected to ADPT-026 and OMNI-A0121: stable signal at -93dBm, three bars



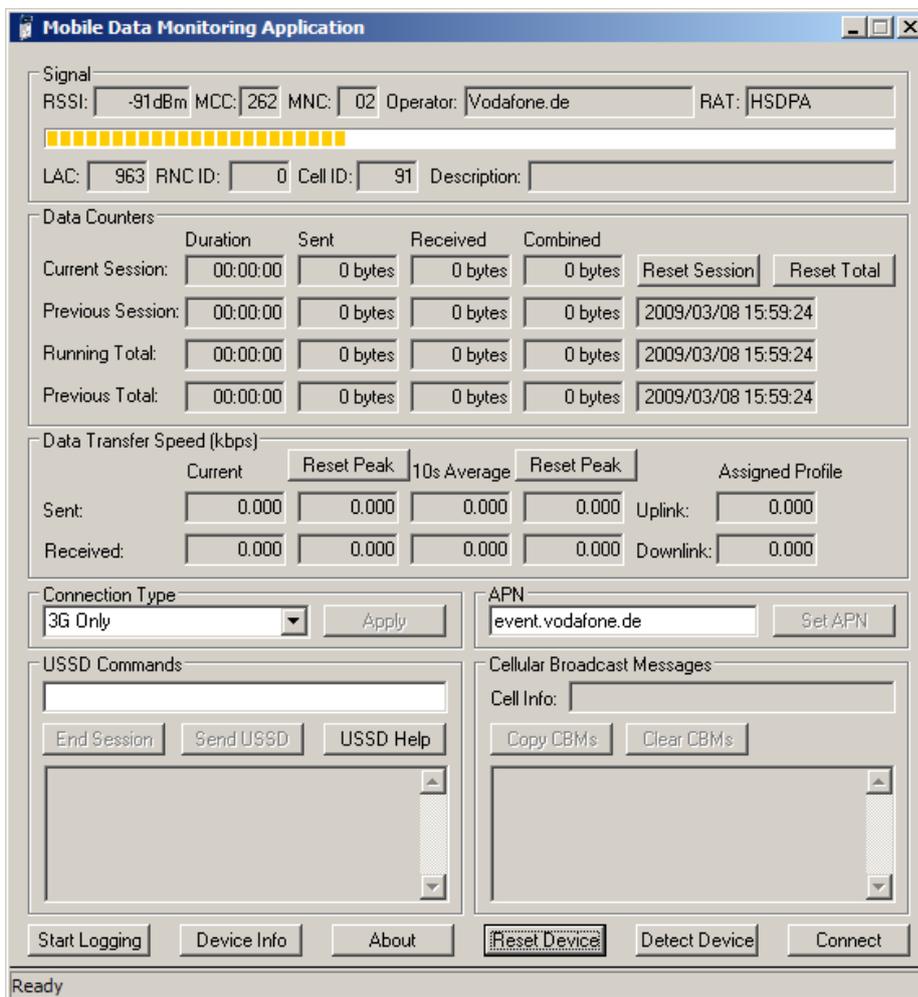
Option iCON 401

Same test, same location

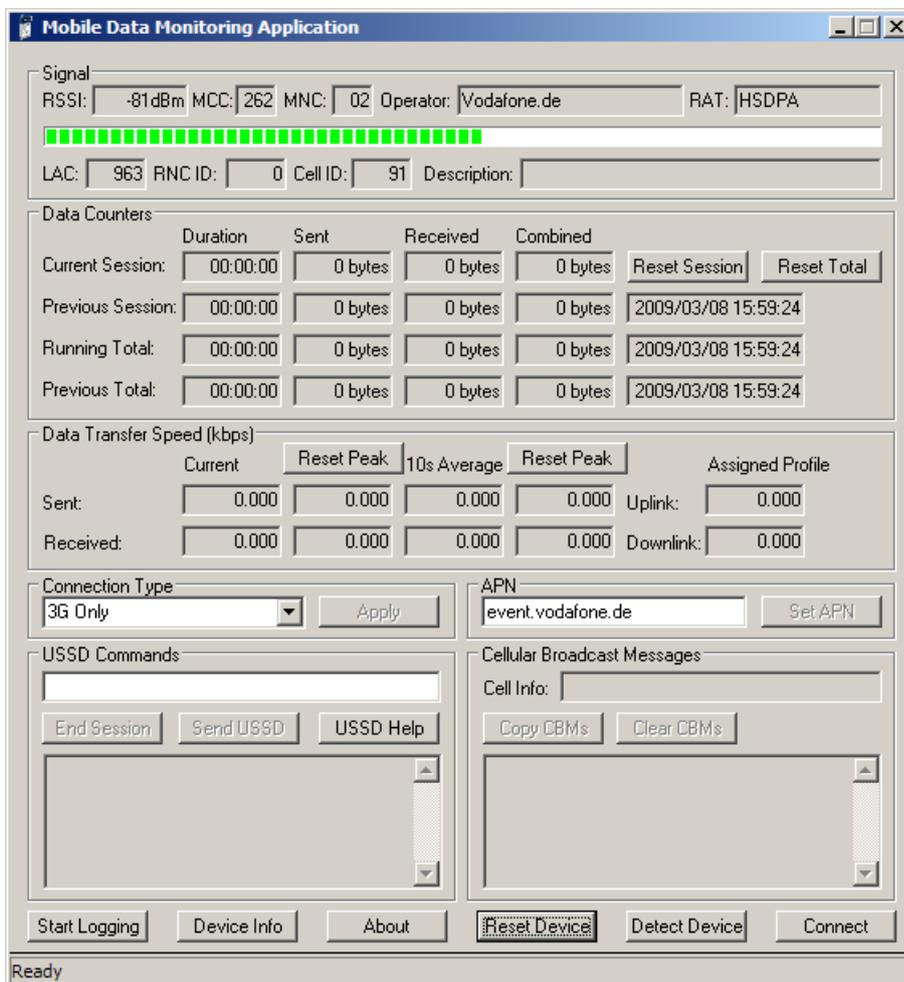
With internal antenna weak signal at -111dBm, no connection



With ADPT-026 and OMNI-A0121 outside: -91dBm, three bars



Connected to internal antenna connector and OMNI-A0121: -81dBm, four bars



Summary of results

Modem type	Internal antenna	Signal strength	
		ADPT-026 + OMNI-A0121	Direct connect OMNI-A0121
iCon 431	-105 dBm	-93 dBm	-
iCon 401	-111 dBm	-91 dBm	-81 dBm

Conclusion:

Connecting an outdoor antenna directly to the USB modem clearly provides the best solution to solve indoor reception problems. However, an outdoor antenna connected via the Poynting ADPT-026 adapter to a 3G USB modem can increase the signal strength to a level which allows full connectivity. In case the USB modem will work outdoor sufficiently but not indoor an omni-directional antenna like the Poynting OMNI-A0121 is sufficient to enable HSPA performance. In weak signal areas, a stronger directional antenna like the Poynting LPDA-A0044-01 should be used.

For further information please contact

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