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Test setup information for FCC Application Process of Nokia LRB-1 Bluetooth tranceiver component, reference number FCC ID OW3BT101.

- General information

LRB-1 is a complete stand-alone Class 2 Bluetooth tranceiver system, which is made for surface mounting on a host. The Bluetooth transceiver component provides an antenna pin with a 50Ω–antenna interface.

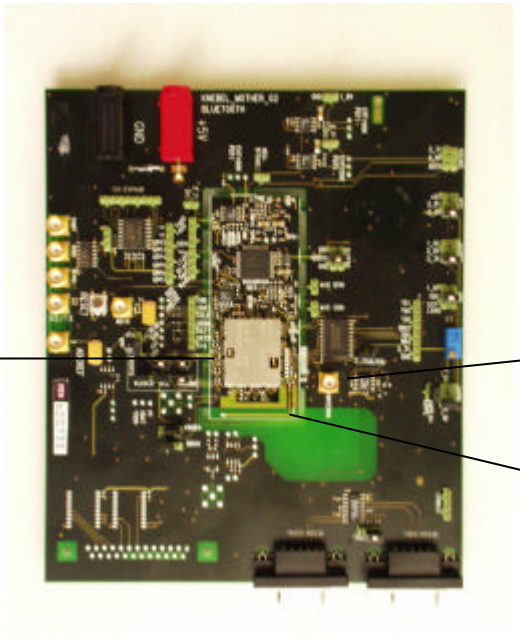
LRB-1 was tested in a stand-alone configuration. The Bluetooth Transceiver Component was assembeled on a Development board to provide LRB-1 with commands.

- Details of test setup

All measurements have been performed with an on board antenna (0dBi) and a standard antenna (1.9 dBi), which was connected via a SMA–connector on the reference board. Details of the on board antenna can be found further down. A datasheet of the used M/A-COM antenna AND-C-107 will be provided with this document. The on board antenna was designed according the Nokia recommendation.

The tests with the 1.9 dBi antenna were conducted for information only.

- Antenna placement



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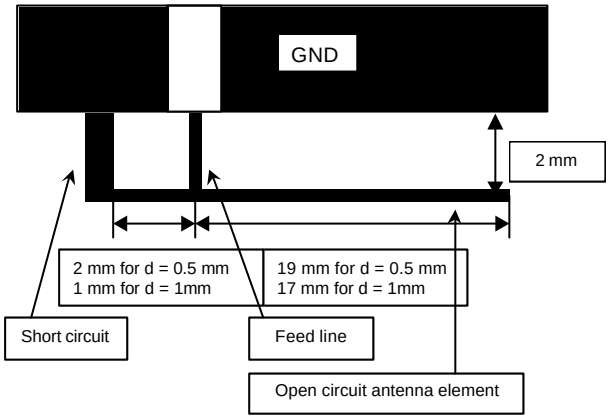
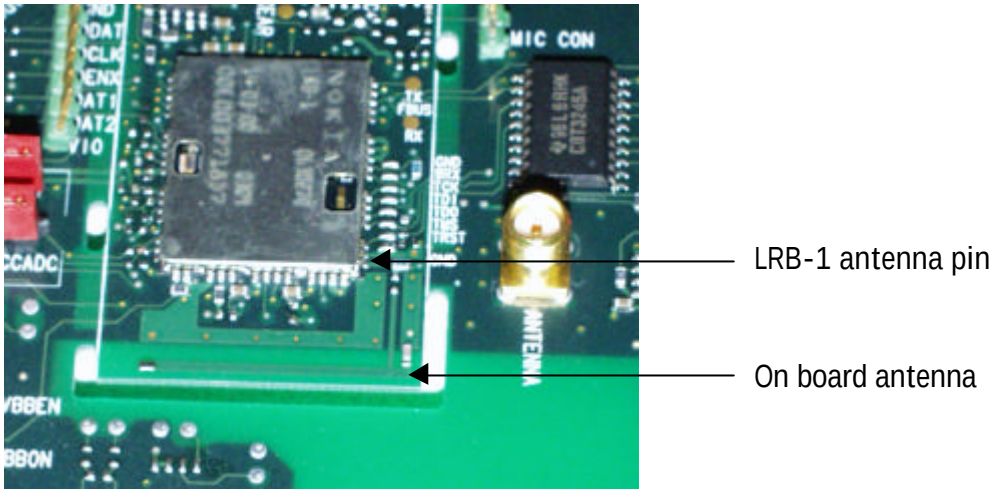
- Details of on board antenna





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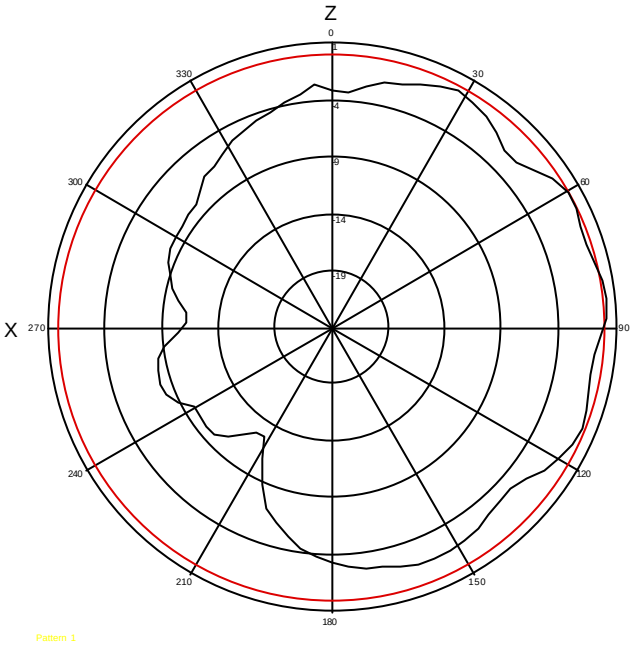
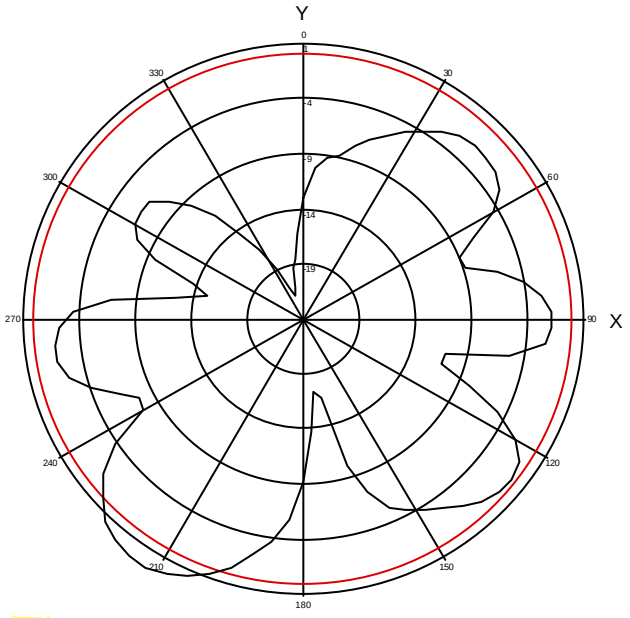
Description : receiving IFA for near field measurements (ground plane extended) PCB connected by SMA-connector; x/z-plane; vertical



x/z-Ebene, horizontale Polarisation (E_ϕ)

Description : receiving IFA for near field measurements (ground plane extended) PCB connected by SMA-connector; y/z-plane; horizontal



y/z-Ebene, vertikale Polarisation (E_θ)