

Name: APENOR209V01**Description:****Type:** Earth station, Transmitting

Earth station transmitting antenna pattern for analyses under Appendix 30B for the BIFROST terminal type I transmitting antenna.

Required Input Parameters: None**Validation Warnings/Errors:** None**Pattern Information:**

Based on a pattern submitted by NOR administration for the antenna of 3m diameter and 0.7 efficiency, in 1995. Maximum antenna gain is fixed to 50.7 dB.

Co-Polar Component:

$$G = 50.7 - 42.3 \varphi^2 \quad \text{for } 0^\circ \leq \varphi < 0.634^\circ$$

$$G = 30.7 \quad \text{for } 0.634^\circ \leq \varphi < 0.854^\circ$$

$$G = 29 - 25 \log \varphi \quad \text{for } 0.854^\circ \leq \varphi < 48^\circ$$

$$G = -10 \quad \text{for } 48^\circ \leq \varphi \leq 180^\circ$$