Name: APS__D629V01

Type: Space station, Receiving and Transmitting

Description:
Space station antenna pattern submitted by D for KBSAT-NGSO-1 network for RVP1 beam.

Required Input Parameters:

gain

Validation Warnings/Errors:

Type	Message
Error	Gmax () is less than 36.6 (). Gmax is too low.

Co-Polar Component:

$G = G_{max} - 3\,(\varphi/\varphi_0)^2$ for $0° \leq \varphi \leq \varphi_1$

$G = 34 - 25 \log \varphi$ for $\varphi_1 < \varphi \leq 17.4°$

$G = 3$ for $17.4° < \varphi \leq 180°$

where

$\varphi_1 = 2.27°$

$\varphi_0 = 1.14°$