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Radio approval Optiwave 7400

TLPR antenna characteristics

Distribution list: KI LS

Document Type: Report

KI LS

Revision history	Issue	Date	Issued by	Modification
	0.0	2015-01-15	C.Ouzounis	Created

Contents

KI LS

1 Purpose

Measurements of the TLPR antenna characteristic have to fulfill the guidelines listed below

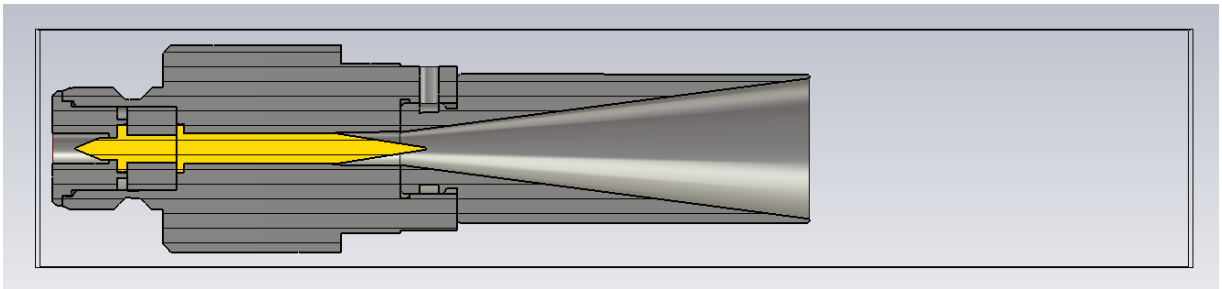
- FCC Part 15.209

2 Definitions

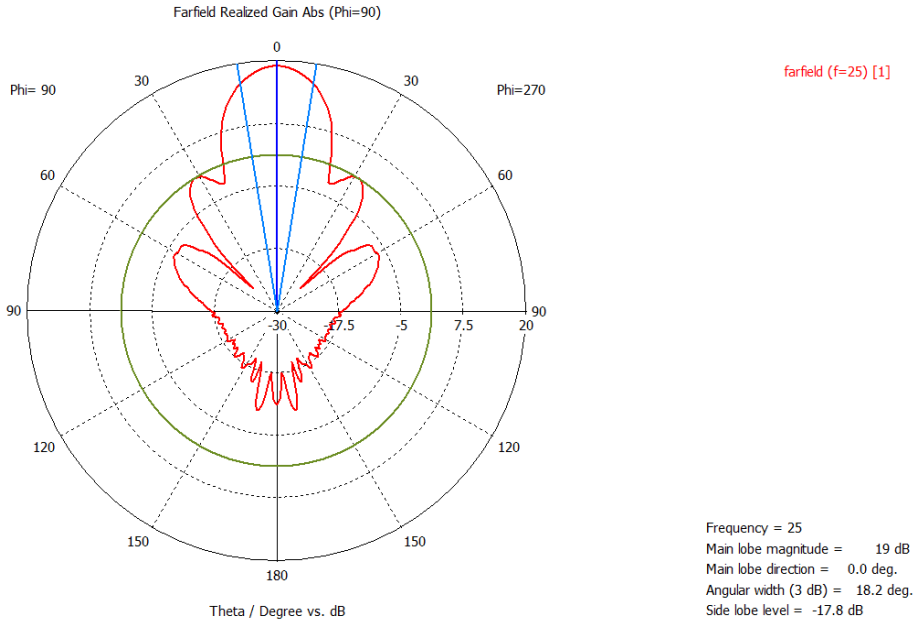
In the following the sectional view of the additional TLPR antennas DN40 and DN50 (all other you will find in the document “Antennas for LPR approval”). Only the antenna gain of the below antennas are relevant.

3 Antenna characteristics

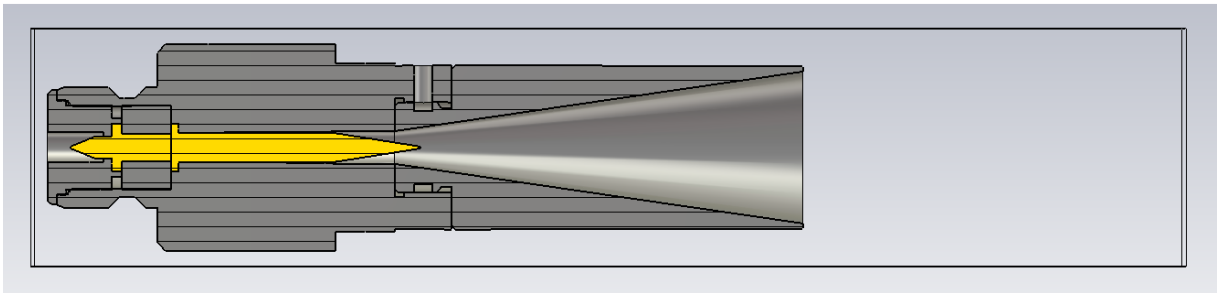
3.1 Wave Horn DN40 (stainless steel)



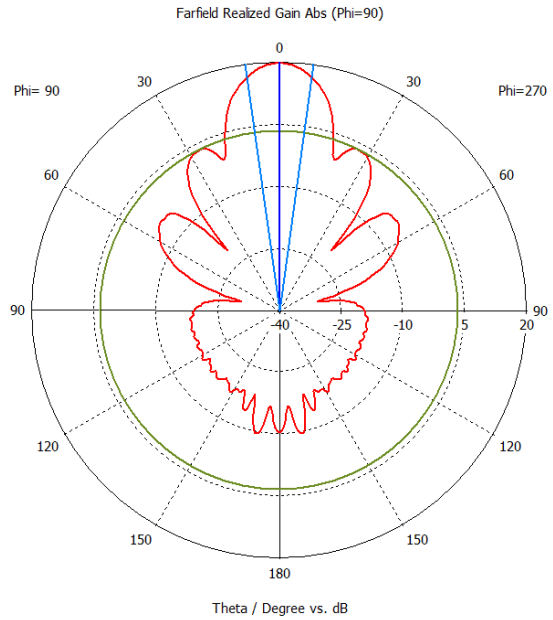
3.1.1 Radiation pattern in E-plane



3.2 Wave Horn DN50 (stainless steel)



3.2.1 Radiation pattern in E-plane



farfield (f=25) [1]

Frequency = 25
Main lobe magnitude = 19.8 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 16.0 deg.
Side lobe level = -16.5 dB

3.3 Overview

Type of antenna	Aperture area	Gain
DN40	39 mm	19 dB
DN50	43 mm	19,8 dB