

Amaterska radioastronomija

4 – Žarilec

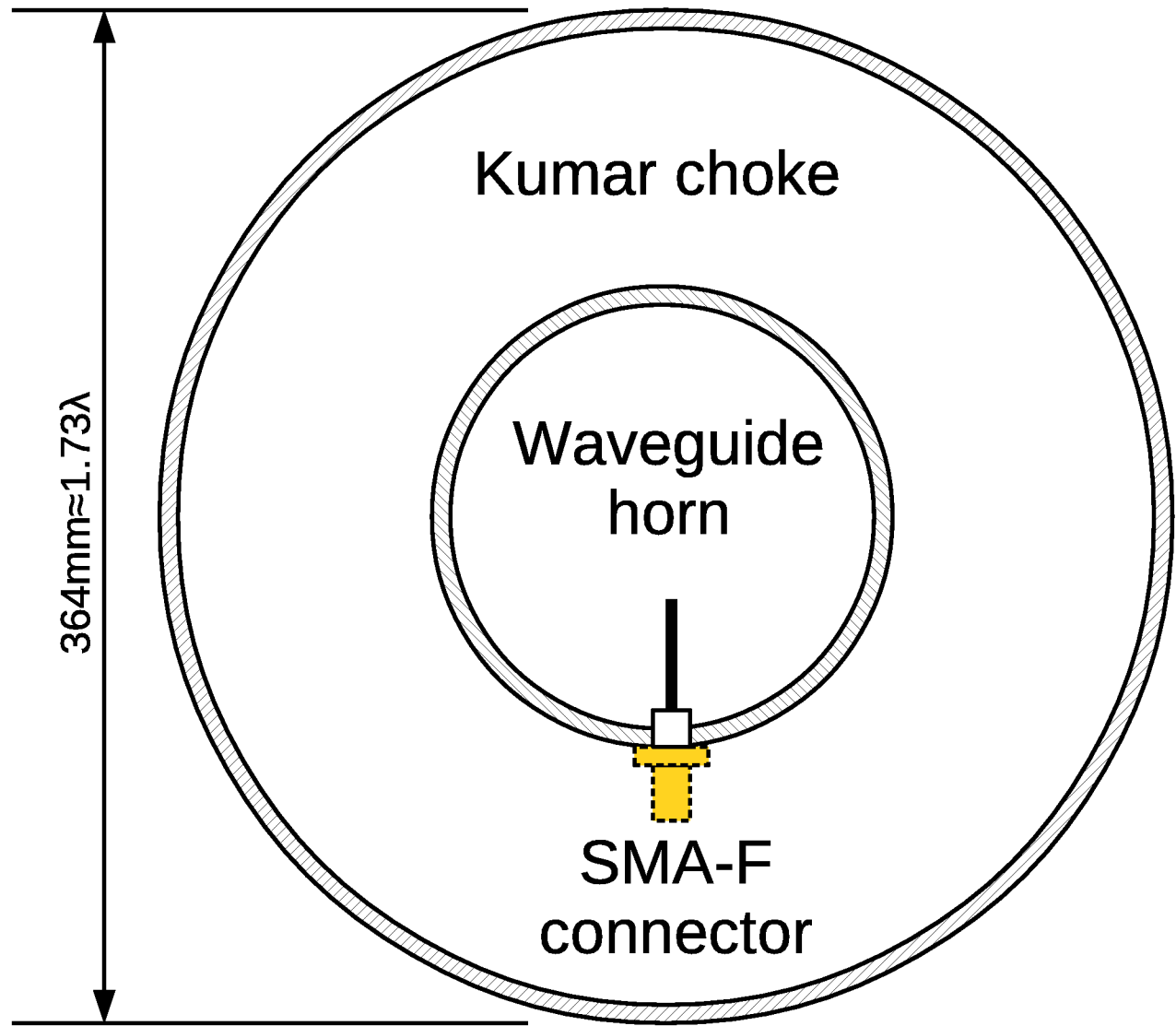
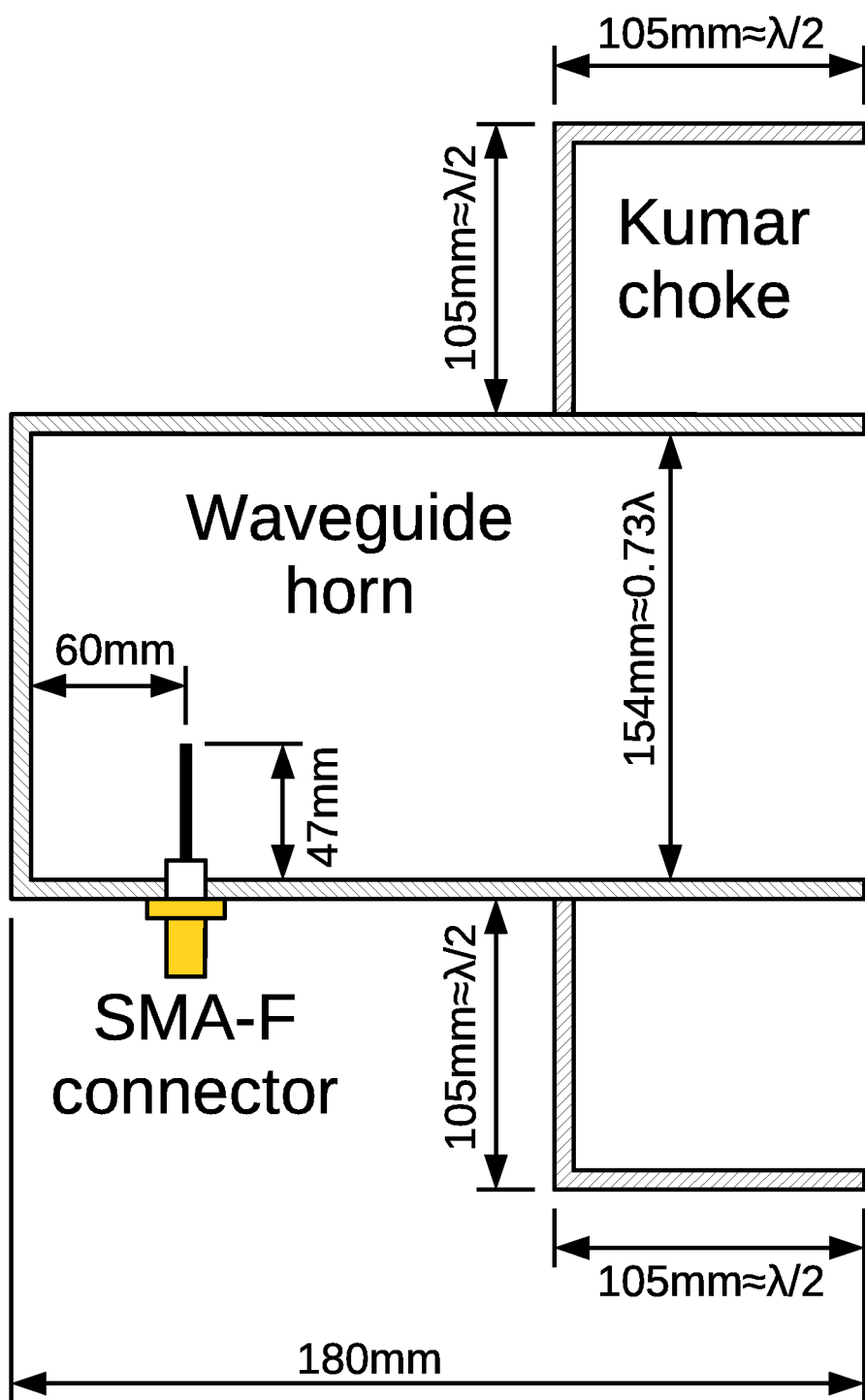


Laboratorij za sevanje in optiko

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&

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VE4MA feed for 1.42GHz





RIGOL DSA 815 Spectrum Analyzer LXI 94Hz-1.3GHz



Control

Marker

Auto

User Key

Measure

System

Print Setup

Storage

Utility

Edit

1 kHz

2 kHz

3 kHz

4 kHz

5 kHz

6 kHz

7 kHz

8 kHz

9 kHz

0

Enter

Back

Exit



RIGOL DSA 815 Spectrum Analyzer



RIGOL DSA 815 Spectrum Analyzer LXI 9kHz-1.5GHz



Control Panel Buttons:

- Control: FREQ, SPAN, AMPT
- Marker: Marker, Marker, Marker, Peak
- Measure: Measure, Measure, Measure, Measure
- Utility: System, File, Storage
- Edit: 1-9, 0, * (Star), # (Hash), Enter, Back, Esc







ECHO STAR

040100111
100 07145
②
1.22
9/17

RIGOL DSA 815 Spectrum Analyzer LXI 9kHz-1.5GHz



Preset

Help

FREQ

SPAN

AMPT

Control
BW/ Det Sweep/ Trig
Trace/ P/F TG
Meas Meas Setup Demod
System Print Setup Storage

Utility

Edit

1 A/w 2 abc 3 def
4 ghi 5 jkl 6 mno
7 pqrs 8 tuv 9 wxyz
0 _ +/-
0 _ +/-

Esc

Back

Enter

Spectrum Analyzer

GEN OUT

MAX 1.200



















MREZA
SER N° AALOSI
LCD 128X64

VPIS
POMNILNIK
ODPIK RAZLIKE
BREZ
RAZLIKA

f_{LO}
VHOD 1...20MHz
IZHOD 0...4.7GHz
HARMONSKI KONVERTER

f_{ko1} f_{ko2} 4 x -10 dB
VF vhod
5M 10M 20M 50M Δf/div
2M 1M 100M 200M
#2 5k 100k 50k Δf=0
10k 20k 50k 150k 300k 6M
VB 2.0k 500k 1K
Y-NF IZHOD
STAB. VCOM
SPEKTRALNI ANALIZATOR 0...1700MHz

VKLON SLEPLNI 12VDC 4...1700MHz
-40dBm 4 x -10 dB -40...+0 dBm

dB
dB
MHz/100kHz









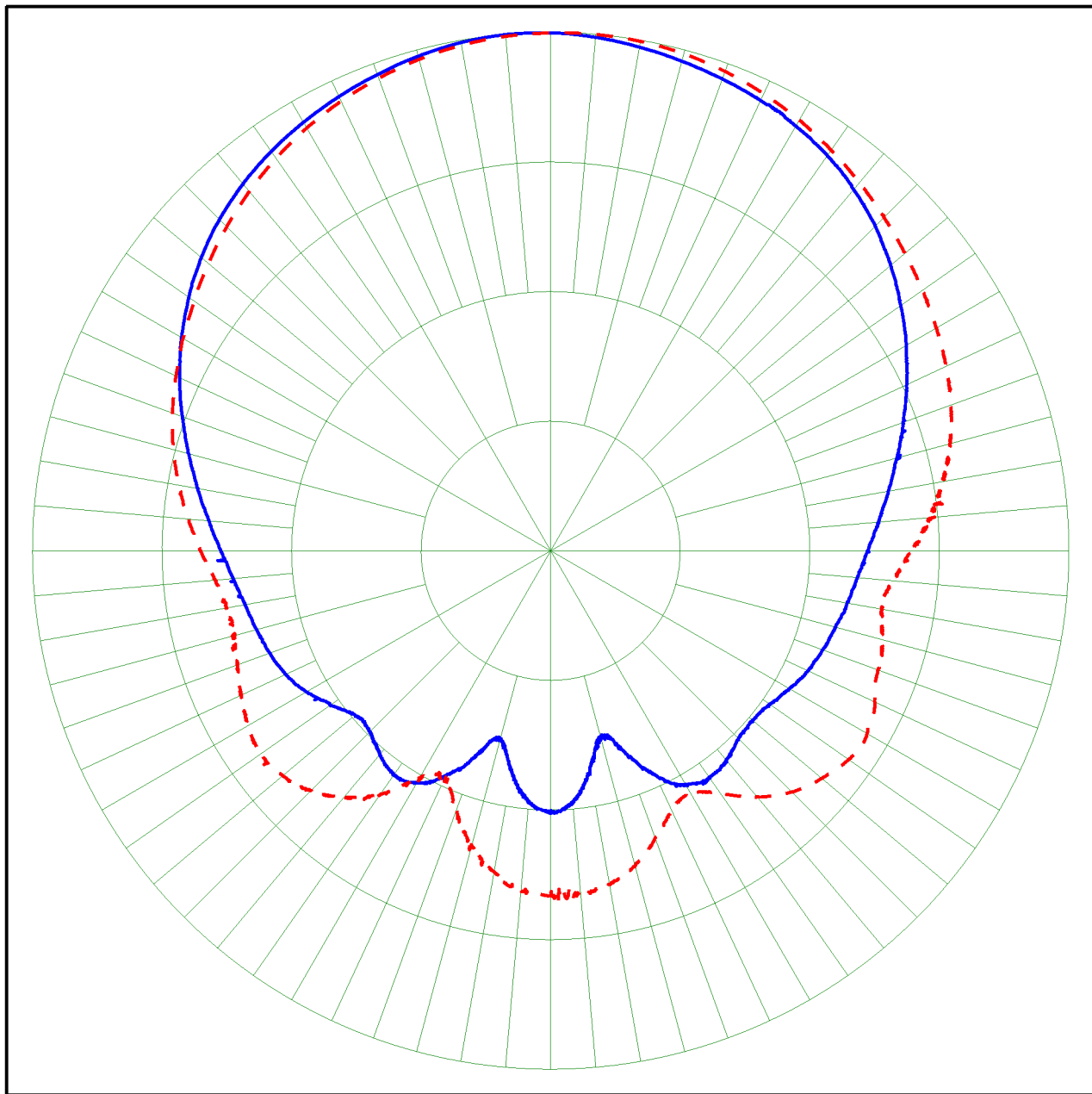




— VE4MA feed

- - - waveguide horn

Logarithmic radial scale (40dB span)



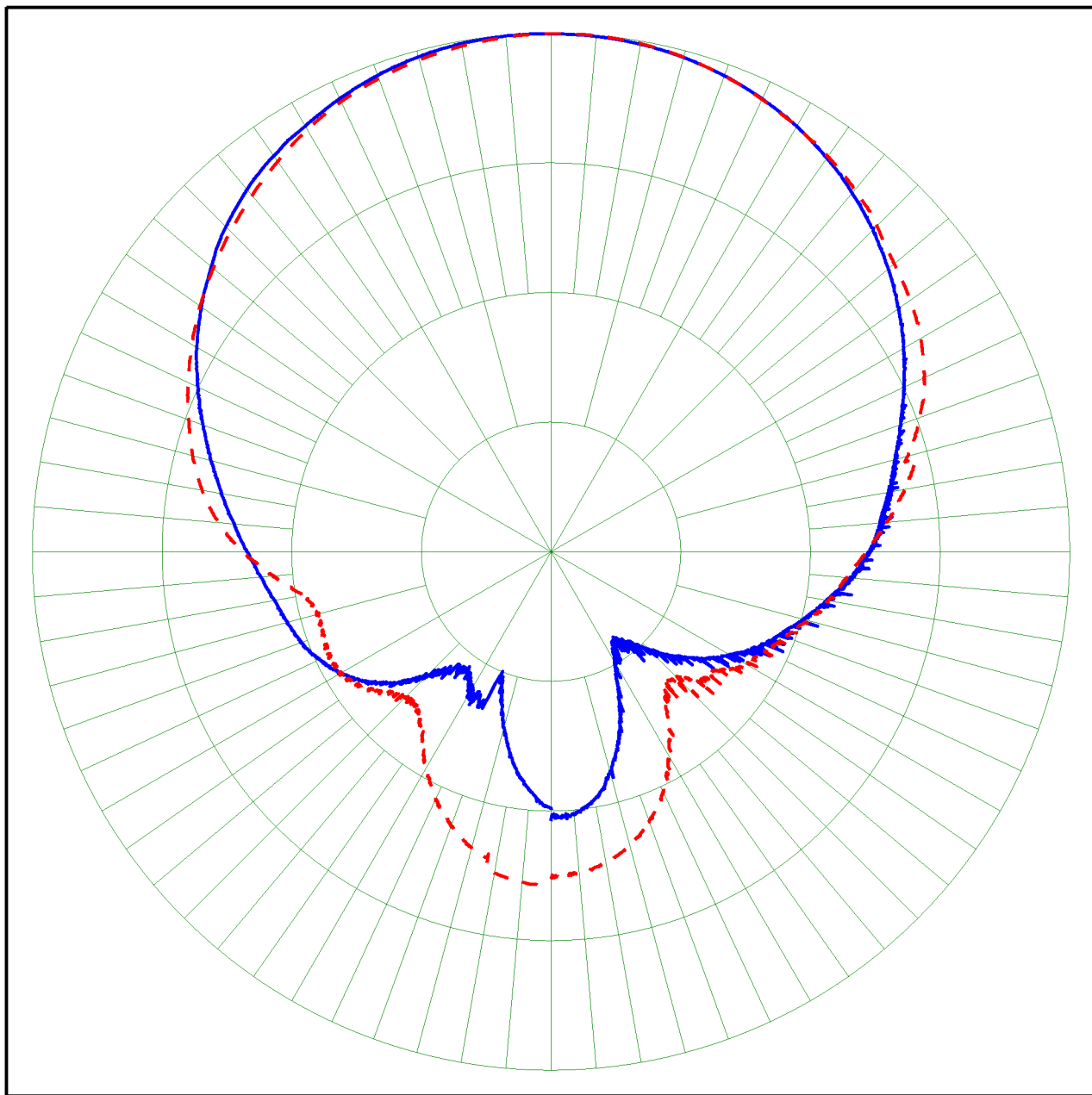
E-plane radiation pattern

VE4MA feed	-3dB Beamwidth: 76.6	Directivity: 6.8 = 8.34 dBi
waveguide horn	-3dB Beamwidth : 75.2	Directivity: 5.6 = 7.52 dBi

— VE4MA feed

- - waveguide horn

Logarithmic radial scale (40dB span)



H-plane radiation pattern

VE4MA feed	-3dB Beamwidth: 72.6	Directivity: 7.5 = 8.75 dBi
waveguide horn	-3dB Beamwidth : 70.2	Directivity: 7.2 = 8.59 dBi