

## ANTENA YAGI-UDA

```
clc,close all, clear all;
```

```
d = dipole('Length',0.0666,'Width',0.0041)
```

```
d.TiltAxis ='Y';
```

```
d.Tilt = 90;
```

```
n=3;
```

```
y = yagiUda;
```

```
y.Exciter = d;
```

```
y.NumDirectors = n;
```

```
y.ReflectorLength = 0.072;
```

```
y.ReflectorSpacing =0.04;
```

```
y.DirectorLength = [0.05 0.065 0.06 ];
```

```
y.DirectorSpacing =[0.017 0.02 0.03 ];
```

```
figure;
```

```
show(y)
```

```
%%
```

```
figure;
```

```
s11=sparameters(y,2400e6:1e6:2500e6,50);
```

```
rfplot(s11)
```

```
%%
```

```
figure;
```

```
v=vswr(y,2400e6:1e6:2500e6,50);
```

```
%%
```

```
pattern(y,2400e6)
```

## ANTENA BI-QUAD

```
clc;close all;clear all;
```

```
bq = biquad;
```

```
bq.ArmLength=0.035;
```

```
bq.Width=0.0032;
```

```
bq.ArmElevation=35
```

```
figure;
```

```
show(bq)
```

```
%%
```

```
figure;
```

```
s11=sparameters(bq,2400e6:1e6:2500e6,50);
```

```
rfplot(s11)
```

```
%%
```

```
figure;
```

```
v=vswr(bq,2400e6:1e6:2500e6,50);
```

```
% %
```

```
pattern(bq,2400e6)
```

## ANTENA FRANKLIN

```
clc;close all;clear all;

dm = dipoleMeander;

dm.Width=0.0032;

dm.ArmLength=[0.03394 0.008882 0.0545 0.0156];

dm.NotchLength=0.00521;

dm.NotchWidth=0.01506;

figure;

show(dm)

%%

figure;

s11=sparameters(dm,2400e6:1e6:2500e6,50);

rfplot(s11)

%%

figure;

v=vswr(dm,2400e6:1e6:2500e6,50);

% %

pattern(dm,2400e6)
```