

LAMPIRAN I

DATA SIMULASI PARAMETER ANTENA

A. Parameter Dasar Antena

1. *S-Parameter* (S_{11})

Tabel 1 Data simulasi S_{11}

Frekuensi (GHz)	S_{11} (dB)
1.8	-8.51593
1.9	-11.8548
2	-17.1413
2.1	-22.937
2.2	-17.1771
2.3	-12.6169
2.4	-9.81748
2.5	-7.92352

2. *Voltage Standing Wave Ratio* (VSWR)

Tabel 2 Data simulasi VSWR

Frekuensi (GHz)	VSWR
1.8	2.200763
1.9	1.686094
2	1.322811
2.1	1.153571
2.2	1.32127
2.3	1.610852
2.4	1.953961



B. Parameter Medan Jauh Antena

1. Gain

Tabel 3 Data simulasi gain antena

Frekuensi (GHz)	Gain (dB)
1.9	1.491872
2	1.485337
2.1	1.478518
2.2	1.47148
2.3	1.46431
2.4	1.455955
1.9	1.491872
2	1.485337

2. Keterarahan

Tabel 4 Data simulasi keterarahan antena pada 2.4 GHz setelah normalisasi

Sudut Putar ϕ^0	Daya yang Diterima (normalisasi)(dB)
0	-30.2561
10	-16.0531
20	-10.0244
30	-6.58383
40	-4.25721
50	-2.59504
60	-1.41239
70	-0.62296
80	-0.18452
90	-0.07691
100	-0.29273
110	-0.83473

120	-1.71828
130	-2.9802
140	-4.69944
150	-7.04772
160	-10.4406
170	-16.1968
180	-30.4475
190	-16.6146
200	-10.6403
210	-7.16403
220	-4.76734
230	-3.01296
240	-1.72152
250	-0.81074
260	-0.24226
270	0
280	-0.08088
290	-0.49201
300	-1.25286
310	-2.40378
320	-4.0264
330	-6.29344
340	-9.61712
350	-15.2965

3. Axial Ratio

Tabel 5 Data simulasi *Axial Ratio*

Frekuensi (GHz)	<i>Axial Ratio</i> (dB)
1.9	3.192731
2	2.733792
2.1	2.287118
2.2	1.884692
2.3	1.579087
2.4	1.459062
2.5	1.613971

