

DAFTAR PUSTAKA

- Adisorn (2017), "Design and Fabrication of Microwave Absorbers Using Water Hyacinth", Mahasarakham International Journal Of Engineering Technology, Vol. 3, No. 1, January-June 2017.
- Anies. (2009). Cepat Tua Akibat Radiasi. Jakarta: PT. Elexmedia Komputindo.
- Asep Samsudin, H. H. (2017). lbM Pemanfaatan Tanaman Eceng Gondok (*Eichornia crassipes*) untuk Kerajinan Tas . Jurnal Ilmiah Pengabdian kepada Masyarakat, 34-39.
- Davis, H.E., Troxell, G.E., Wiskocil, C.T., 1955, The Testing and Inspection of Engineering Materias, McGraw-Hill Book Company, New York, USA.
- Elisabet Diem, "Non-Thermal DNA breakage by mobile phone radiation(1800 MHz) in human fibroblasts and in transformant GFSH-R17 rat glanulosa cells in vitro "
- Enny. (2014). Efek Samping Penggunaan Ponsel. GEMA TEKNOLOGI Vol. 17 No. 4 , 178-183.
- Erma Mexcorry Sumbayak (2012), "Dampak Gelombang Elektromagnetik Telepon Seluler terhadap Otak", Staf Pengajar Bagian Histologi Fakultas Kedokteran Universitas Kristen Krida Wacana, Jakarta

- Fitriah, T. A. (2017). Pengaruh Bahan Pengisi (Filler) Enceng Gondok dan Sekam Padi pada material Isolasi Listrik (Polymer Epoxy). Jurnal Penelitian Engineering Fakultas Teknik Univeritas Hasanuddin.
- H. Nornikman, F. M. (2010). Parametric Studies Of The Pyramidal Microwave Absorber Using Rice Husk. Progress In Electromagnetics Research, PIER 104, 145-146.
- H. Nornikman, F. M. (2018). Green Technology Design of Modified Wedge Microwave Absorber Using Rice Husk. Jurnal of Engineering and Applied Sciences, 7380-7385.
- Harsono, H. (2002). Pembuatan Silika Amorf dari Silika Sekam Padi. Jurnal Ilmu Dasar Vol. 3, 98-103.
- Hideo Oka, K. N. (2002). Experimental results on indoor electromagnetic wave absorber using magnetic wood. JOURNAL OF APPLIED PHYSICS.
- Jeko.I.R. (2018, april). 10 Smartphone dengan Radiasi Paling Rendah. Diambil kembali dari <https://www.liputan6.com/tekno/read/3478240/> 10smartphone dengan radiasi paling rendah.
- Lita Nuricha Wahyuni, W. R. (2016). Pengaruh Jumlah Lapisan Terhadap Reflection Loss pada Komposit Barium Heksaferit / Polianilin sebagai RAM (Radar Absorbing Material) . JURNAL TEKNIK ITS VOL.5, No.2, (2016) ISSN:2337-3539 (2301-9271).

Marliansyah, M. (2015). Rancang Bangun Alat Pengering Ditinjau Dari Specific Energy Consume Pada Kerupuk (Thesis). Surabaya: Politeknik Negeri Sriwijaya .

Mohammad Basuki Rahmat, A. Z. (2018). Studi Potensi Sekam Sebagai Bahan Peredam Gelombang Radar. Seminar Master 2018 PPNS, 247-250.

Muzakhim Imammuddin, S. S. (2018). Pengaruh Temperatur Karbonisasi Terhadap Mikrostruktur dan Pembentukan Kristal Pada Biokarbon Enceng Gondok Sebagai Bahan Dasar Absorber Gelombang Elektromagnetik Radar. Jurnal Rekayasa Mesin, 135-141.

Nurhasni, H. N. (2014). Sekam Padi untuk menyerap Ion Logam Tembaga dan Timbal dalam Air Limbah. Valensi vol.4 no 1 mei 2014 (36-44), 36-44.

Osman Erogul, " Effect of Elektomagnetic Radiation from a Sellular Phone on Human Sperm Motility : An In Fitro Study "

Pranowo Sidi, M. B. (2017). Menentukan Konstanta Dielectric Sekam sebagai Bahan Microwave Absorber menggunakan Metode Free Space Measurement . Seminar MASTER 2017 PPNS, 85-89.

Shu-Ting Liu, K.-k. Y.-d.-G. (2015). Magnesiothermic reduction of rice Husk ASH for electromagnetic wave adsorption. *Journal of Magnetism and Magnetic Materials* .

William, S. (2019, Januari). Inilah Khasiat Eceng Gondok Yang Tidak Banyak Diketahui Orang.

Y.S. Lee, F. M. (2013). An Experimental Thickness of Microwave Absorber Effect Absorption in Ku-band Frequency . 2013 IEEE Symposium on Wireless Tecnology and Aplication (ISWTA) , September 22-25 , 2013, Kuching Malaysia, 172-175.

Data Pengukuran S-Parameter (S_{11} real)
SEKAM PADI DAN ECENG GONDOK

No	Frekuensi	SP 50	SP 60	SP 70	EG 50	EG 60	EG 70
1	4.00	0.500563	0.516570	0.435277	0.463329	0.448967	0.436813
2	4.02	0.080896	0.107289	0.005281	0.032911	0.016955	0.003942
3	4.04	-0.351362	-0.319326	-0.414461	-0.397326	-0.409899	-0.420234
4	4.06	-0.675806	-0.647959	-0.711159	-0.707628	-0.714251	-0.719061
5	4.08	-0.819758	-0.804867	-0.821886	-0.831443	-0.831236	-0.831027
6	4.10	-0.766779	-0.767296	-0.738630	-0.758692	-0.752347	-0.746527
7	4.12	-0.543875	-0.553937	-0.492562	-0.518383	-0.507309	-0.497632
8	4.14	-0.202710	-0.213916	-0.139256	-0.164826	-0.151681	-0.140854
9	4.16	0.185523	0.181204	0.248376	0.228300	0.240579	0.251233
10	4.18	0.538746	0.544337	0.586610	0.577657	0.586832	0.594515
11	4.20	0.772072	0.785292	0.791697	0.798010	0.801319	0.803799
12	4.22	0.814059	0.831373	0.797082	0.819161	0.814757	0.811334
13	4.24	0.634896	0.656529	0.584593	0.616972	0.605394	0.596292
14	4.26	0.274688	0.302046	0.203778	0.237585	0.222203	0.210548
15	4.28	-0.160634	-0.128793	-0.230586	-0.206585	-0.220679	-0.232230
16	4.30	-0.538942	-0.510260	-0.587765	-0.581031	-0.590450	-0.597700
17	4.32	-0.756514	-0.741670	-0.773823	-0.785723	-0.787660	-0.789796

18	4.34	-0.772411	-0.775855	-0.756436	-0.782891	-0.778373	-0.774745
19	4.36	-0.601979	-0.620488	-0.559801	-0.593437	-0.583705	-0.576062
20	4.38	-0.297751	-0.320226	-0.239568	-0.272156	-0.259858	-0.249944
21	4.40	0.070704	0.056805	0.133013	0.108545	0.120918	0.130819
22	4.42	0.426229	0.427838	0.478244	0.468948	0.479212	0.487181
23	4.44	0.690546	0.709299	0.721395	0.730277	0.735415	0.739716
24	4.46	0.795587	0.824708	0.794735	0.822507	0.820891	0.819779
25	4.48	0.699887	0.733436	0.666650	0.706810	0.698426	0.691974
26	4.50	0.415129	0.449442	0.356443	0.398293	0.385392	0.375215
27	4.52	0.017607	0.049221	-0.050612	-0.020406	-0.034219	-0.045461
28	4.54	-0.376445	-0.353788	-0.435278	-0.426961	-0.437768	-0.446364
29	4.56	-0.652777	-0.646097	-0.686623	-0.703316	-0.707778	-0.711835
30	4.58	-0.745221	-0.758525	-0.746524	-0.782219	-0.780461	-0.779200
31	4.60	-0.643524	-0.674613	-0.614416	-0.660121	-0.652822	-0.646724
32	4.62	-0.385991	-0.423987	-0.335204	-0.379234	-0.368758	-0.359729
33	4.64	-0.040476	-0.068227	0.020176	-0.011275	0.000521	0.010562
34	4.66	0.312876	0.309281	0.370161	0.360673	0.371171	0.379461
35	4.68	0.593562	0.619162	0.634398	0.651322	0.657750	0.662970
36	4.70	0.734485	0.782009	0.749468	0.790562	0.790755	0.791178
37	4.72	0.697995	0.753547	0.680989	0.737291	0.731480	0.727302
38	4.74	0.487063	0.535081	0.441375	0.496318	0.486105	0.477941
39	4.76	0.152723	0.181809	0.088445	0.125488	0.113464	0.103189
40	4.78	-0.213700	-0.206980	-0.279287	-0.273083	-0.284311	-0.293036
41	4.80	-0.512373	-0.528333	-0.561587	-0.588464	-0.595666	-0.600701
42	4.82	-0.666721	-0.703478	-0.685930	-0.739516	-0.740061	-0.740758

43	4.84	-0.640912	-0.691283	-0.625664	-0.691452	-0.685472	-0.682413
44	4.86	-0.451098	-0.502236	-0.406481	-0.466093	-0.456966	-0.449841
45	4.88	-0.149771	-0.184111	-0.088238	-0.125947	-0.115067	-0.106023
46	4.90	0.183875	0.181169	0.246764	0.242301	0.252360	0.260296
47	4.92	0.469197	0.505076	0.519555	0.551101	0.558419	0.563621
48	4.94	0.639973	0.706052	0.665423	0.728846	0.730261	0.732087
49	4.96	0.654883	0.731155	0.648571	0.727849	0.724506	0.722811
50	4.98	0.511496	0.572813	0.474170	0.547744	0.539766	0.534207
51	5.00	0.247115	0.273714	0.187336	0.230727	0.220280	0.212497
52	5.02	-0.071907	-0.085971	-0.138755	-0.141084	-0.151579	-0.159591
53	5.04	-0.361641	-0.411716	-0.418965	-0.468571	-0.476697	-0.481982
54	5.06	-0.548434	-0.621593	-0.581335	-0.664371	-0.667413	-0.669619
55	5.08	-0.586134	-0.665422	-0.584694	-0.677403	-0.674779	-0.672976
56	5.10	-0.471093	-0.536685	-0.435027	-0.511132	-0.503589	-0.499238
57	5.12	-0.237612	-0.272261	-0.178248	-0.217089	-0.207468	-0.200948
58	5.14	0.051457	0.060722	0.118382	0.127673	0.137113	0.144765
59	5.16	0.323387	0.380012	0.382263	0.439960	0.447154	0.452618
60	5.18	0.514169	0.606532	0.551120	0.644969	0.648252	0.651538
61	5.20	0.579752	0.679319	0.584225	0.691820	0.690225	0.690322
62	5.22	0.508959	0.581409	0.478546	0.569731	0.564662	0.560935
63	5.24	0.322556	0.339580	0.262900	0.308916	0.300617	0.295060
64	5.26	0.066493	0.018568	-0.006591	-0.024353	-0.034526	-0.040016
65	5.28	-0.195003	-0.295758	-0.260632	-0.345085	-0.352847	-0.357744
66	5.30	-0.395393	-0.520364	-0.435333	-0.562037	-0.565115	-0.569699
67	5.32	-0.485792	-0.599353	-0.488354	-0.617935	-0.616567	-0.617780

68	5.34	-0.449693	-0.522763	-0.415433	-0.507734	-0.502558	-0.500186
69	5.36	-0.298827	-0.314045	-0.237774	-0.266081	-0.258712	-0.253571
70	5.38	-0.076005	-0.032818	-0.005776	0.036121	0.044363	0.049551
71	5.40	0.165283	0.257581	0.226014	0.327952	0.334362	0.338796
72	5.42	0.364437	0.483469	0.402297	0.537995	0.540665	0.544116
73	5.44	0.477902	0.587858	0.482676	0.617955	0.617586	0.619267
74	5.46	0.484821	0.547861	0.454973	0.552464	0.550100	0.549339
75	5.48	0.385551	0.375130	0.326717	0.357407	0.351556	0.350218
76	5.50	0.199299	0.109094	0.127691	0.076420	0.068083	0.065665
77	5.52	-0.025991	-0.175233	-0.091966	-0.216337	-0.223413	-0.228269
78	5.54	-0.234991	-0.405259	-0.276664	-0.442485	-0.445758	-0.452247
79	5.56	-0.378261	-0.520336	-0.382895	-0.541914	-0.542139	-0.546593
80	5.58	-0.418890	-0.492064	-0.383748	-0.486768	-0.484396	-0.485043
81	5.60	-0.349713	-0.337508	-0.285503	-0.298825	-0.293920	-0.291726
82	5.62	-0.191448	-0.101428	-0.117009	-0.034934	-0.028428	-0.024429
83	5.64	0.015258	0.152437	0.077816	0.231828	0.238417	0.242555
84	5.66	0.221203	0.366556	0.254957	0.437052	0.441340	0.446203
85	5.68	0.377059	0.488403	0.374319	0.535437	0.536145	0.540375
86	5.70	0.451650	0.491337	0.413000	0.510584	0.507186	0.509882
87	5.72	0.426800	0.373131	0.362172	0.367949	0.363524	0.361715
88	5.74	0.307389	0.161637	0.234051	0.138010	0.132775	0.128054
89	5.76	0.121541	-0.080471	0.061095	-0.116972	-0.122818	-0.125412
90	5.78	-0.086160	-0.292533	-0.115250	-0.329218	-0.332912	-0.334860
91	5.80	-0.263282	-0.415495	-0.251816	-0.438466	-0.437995	-0.441988
92	5.82	-0.367493	-0.420013	-0.317763	-0.417389	-0.412332	-0.418962

93	5.84	-0.374926	-0.316030	-0.304971	-0.281939	-0.277659	-0.279386
94	5.86	-0.285136	-0.139720	-0.217854	-0.073857	-0.072024	-0.068538
95	5.88	-0.123866	0.056156	-0.079289	0.139964	0.140353	0.144992
96	5.90	0.073172	0.230587	0.084036	0.311108	0.312606	0.314916
97	5.92	0.260108	0.347206	0.237935	0.406311	0.409065	0.411408
98	5.94	0.394942	0.384895	0.347841	0.414337	0.415948	0.422047
99	5.96	0.444395	0.334940	0.385467	0.336284	0.335344	0.341173
100	5.98	0.392820	0.204113	0.336412	0.185948	0.181825	0.183145
101	6.00	0.250070	0.022843	0.211183	-0.006757	-0.010718	-0.015880
102	6.02	0.048170	-0.163422	0.038946	-0.195333	-0.197583	-0.205715
103	6.04	-0.163454	-0.303631	-0.139561	-0.323017	-0.326609	-0.332961
104	6.06	-0.329857	-0.359712	-0.278534	-0.355168	-0.356497	-0.360837
105	6.08	-0.408035	-0.317009	-0.344384	-0.286651	-0.282754	-0.286326
106	6.10	-0.377937	-0.197648	-0.323661	-0.141726	-0.135278	-0.135102
107	6.12	-0.249436	-0.039215	-0.221894	0.038046	0.041134	0.046158
108	6.14	-0.056745	0.111632	-0.063836	0.195878	0.195848	0.201816
109	6.16	0.153032	0.225609	0.115741	0.295589	0.294787	0.299307
110	6.18	0.328637	0.281022	0.273593	0.322795	0.322306	0.326094
111	6.20	0.427690	0.268271	0.371002	0.277638	0.275553	0.278466
112	6.22	0.425374	0.190511	0.382872	0.174510	0.171087	0.172529
113	6.24	0.321943	0.066424	0.305501	0.036226	0.034432	0.032918
114	6.26	0.138949	-0.073019	0.154175	-0.108713	-0.106239	-0.110788
115	6.28	-0.077274	-0.192386	-0.034223	-0.217171	-0.213018	-0.218668
116	6.30	-0.275430	-0.263410	-0.217082	-0.262545	-0.260838	-0.265858
117	6.32	-0.405389	-0.273094	-0.350055	-0.237158	-0.239090	-0.244109

118	6.34	-0.433139	-0.222425	-0.398332	-0.156001	-0.157558	-0.162037
119	6.36	-0.351304	-0.122729	-0.347326	-0.040934	-0.041831	-0.042113
120	6.38	-0.181316	-0.008943	-0.209560	0.072606	0.069839	0.075639
121	6.40	0.033943	0.089953	-0.018562	0.153514	0.150512	0.159969
122	6.42	0.237943	0.150819	0.177595	0.182449	0.184203	0.191530
123	6.44	0.378658	0.169122	0.330220	0.166391	0.170985	0.174601
124	6.46	0.421694	0.144396	0.399208	0.118188	0.120794	0.123182
125	6.48	0.357508	0.087357	0.366835	0.054222	0.054117	0.054385
126	6.50	0.202905	0.007249	0.239705	-0.017571	-0.018689	-0.023760
127	6.52	-0.005167	-0.079374	0.049026	-0.085375	-0.086422	-0.095699
128	6.54	-0.218587	-0.157079	-0.161287	-0.139054	-0.139379	-0.148543
129	6.56	-0.383659	-0.206065	-0.339515	-0.165179	-0.165213	-0.169364
130	6.58	-0.461799	-0.218037	-0.442788	-0.160105	-0.159072	-0.158919
131	6.60	-0.427855	-0.187719	-0.441224	-0.122782	-0.121718	-0.119248
132	6.62	-0.287540	-0.127942	-0.331817	-0.069303	-0.069852	-0.064900
133	6.64	-0.076137	-0.056366	-0.141080	-0.015010	-0.017832	-0.010595
134	6.66	0.146092	0.009619	0.079041	0.025410	0.021344	0.027820
135	6.68	0.315995	0.057573	0.268871	0.050148	0.046799	0.049552
136	6.70	0.390078	0.086316	0.378879	0.066132	0.064166	0.062793
137	6.72	0.353190	0.094776	0.383018	0.071274	0.073952	0.070912
138	6.74	0.223185	0.081124	0.284851	0.062914	0.071244	0.068961
139	6.76	0.038257	0.042787	0.113091	0.036624	0.047273	0.047473
140	6.78	-0.157020	-0.020690	-0.090271	-0.007292	0.001178	-0.000138
141	6.80	-0.319284	-0.103241	-0.280887	-0.065521	-0.065200	-0.070845
142	6.82	-0.415876	-0.184584	-0.419424	-0.127910	-0.137830	-0.145527

143	6.84	-0.424813	-0.240367	-0.470575	-0.179377	-0.194967	-0.200803
144	6.86	-0.342906	-0.249244	-0.416189	-0.205247	-0.217474	-0.217114
145	6.88	-0.184535	-0.205245	-0.261700	-0.191919	-0.195302	-0.186556
146	6.90	0.017967	-0.117630	-0.040711	-0.135689	-0.129100	-0.117159
147	6.92	0.208873	-0.011988	0.184747	-0.050240	-0.037749	-0.027587
148	6.94	0.331578	0.082561	0.347833	0.043775	0.055705	0.059242
149	6.96	0.350306	0.142417	0.401217	0.123018	0.127705	0.124330
150	6.98	0.267899	0.156108	0.337375	0.167978	0.163145	0.154243
151	7.00	0.110543	0.120361	0.178427	0.157468	0.148413	0.137151
152	7.02	-0.077749	0.047011	-0.028283	0.091503	0.085381	0.077668
153	7.04	-0.251366	-0.044400	-0.229912	-0.012396	-0.010367	-0.010451
154	7.06	-0.370672	-0.134612	-0.378976	-0.127273	-0.117085	-0.109474
155	7.08	-0.406515	-0.209546	-0.444121	-0.219437	-0.209763	-0.200225
156	7.10	-0.351236	-0.253899	-0.413128	-0.267872	-0.266656	-0.263521
157	7.12	-0.219401	-0.252663	-0.296074	-0.259146	-0.271165	-0.277412
158	7.14	-0.045465	-0.196519	-0.119209	-0.197492	-0.217886	-0.227124
159	7.16	0.121893	-0.097013	0.075902	-0.101160	-0.118558	-0.122184
160	7.18	0.233048	0.017423	0.237856	0.001129	0.000268	0.006244
161	7.20	0.269429	0.119302	0.331718	0.091695	0.111174	0.123679
162	7.22	0.234643	0.182221	0.333706	0.158506	0.188394	0.198613
163	7.24	0.142145	0.189864	0.240773	0.189637	0.210298	0.210544
164	7.26	0.013729	0.140925	0.079166	0.167540	0.168143	0.159375
165	7.28	-0.127328	0.047429	-0.110195	0.086903	0.069720	0.057178
166	7.30	-0.244499	-0.064598	-0.278382	-0.033086	-0.055459	-0.065373
167	7.32	-0.314184	-0.166367	-0.386786	-0.160643	-0.176760	-0.180794

168	7.34	-0.323396	-0.233551	-0.411404	-0.261958	-0.266217	-0.261996
169	7.36	-0.267520	-0.247920	-0.345704	-0.307911	-0.300275	-0.289262
170	7.38	-0.153392	-0.211644	-0.203491	-0.284204	-0.269987	-0.258186
171	7.40	-0.011257	-0.141923	-0.021325	-0.198710	-0.187475	-0.181879
172	7.42	0.121051	-0.056350	0.149898	-0.075684	-0.076330	-0.080769
173	7.44	0.208173	0.035695	0.266950	0.054248	0.042151	0.032498
174	7.46	0.227565	0.122491	0.301533	0.157420	0.146379	0.140292
175	7.48	0.179597	0.185180	0.252496	0.211932	0.213848	0.215700
176	7.50	0.081540	0.202578	0.137499	0.206686	0.220533	0.226768
177	7.52	-0.040000	0.160924	-0.014792	0.142100	0.158493	0.162777
178	7.54	-0.155623	0.067662	-0.169633	0.033705	0.042439	0.041501
179	7.56	-0.240180	-0.051498	-0.293020	-0.089722	-0.093740	-0.098547
180	7.58	-0.277313	-0.166076	-0.358075	-0.202186	-0.216571	-0.223130
181	7.60	-0.260830	-0.244928	-0.348210	-0.278529	-0.297231	-0.302389
182	7.62	-0.198958	-0.267931	-0.267344	-0.304354	-0.319772	-0.319766
183	7.64	-0.108366	-0.234650	-0.135552	-0.275346	-0.281020	-0.276094
184	7.66	-0.005037	-0.148908	0.020069	-0.193486	-0.185783	-0.177767
185	7.68	0.091264	-0.033398	0.159287	-0.071161	-0.054691	-0.046840
186	7.70	0.157961	0.087609	0.247796	0.065265	0.082770	0.086938
187	7.72	0.175676	0.183833	0.259847	0.181293	0.191904	0.190415
188	7.74	0.134461	0.228115	0.191240	0.237569	0.239631	0.231699
189	7.76	0.046633	0.211169	0.062980	0.221691	0.215534	0.204908
190	7.78	-0.063359	0.138831	-0.090223	0.136835	0.126763	0.118888
191	7.80	-0.165467	0.033007	-0.225457	0.009296	-0.000569	-0.001541
192	7.82	-0.233245	-0.075636	-0.309157	-0.126557	-0.133192	-0.127050

193	7.84	-0.255779	-0.172162	-0.327129	-0.245232	-0.246068	-0.236822
194	7.86	-0.229478	-0.237762	-0.278880	-0.322691	-0.317554	-0.311209
195	7.88	-0.164414	-0.262932	-0.181653	-0.343249	-0.337930	-0.335950
196	7.90	-0.078563	-0.237155	-0.060650	-0.298176	-0.297768	-0.300441
197	7.92	0.005289	-0.162980	0.052067	-0.198611	-0.204356	-0.210211
198	7.94	0.066262	-0.050500	0.129471	-0.062010	-0.069715	-0.075058
199	7.96	0.087404	0.075472	0.155606	0.077867	0.076565	0.074414
200	7.98	0.072926	0.187718	0.132146	0.193538	0.203086	0.204616
201	8.00	0.037224	0.257251	0.072267	0.258283	0.274982	0.279046

Data Pengukuran S-Parameter (S_{11} Imaginer)
SEKAM PADI DAN ECENG GONDOK

NO	FREKUNSI	SP 50	SP 60	SP 70	EG 50	EG 60	EG 70
1	4.00	-0.673065	-0.671191	-0.694415	-0.704625	-0.719552	-0.718817
2	4.02	-0.823326	-0.821924	-0.833660	-0.841131	-0.839448	-0.839708
3	4.04	-0.740775	-0.745102	-0.736769	-0.740085	-0.722425	-0.724364
4	4.06	-0.465134	-0.477057	-0.447814	-0.446929	-0.420615	-0.421594
5	4.08	-0.084717	-0.098562	-0.059272	-0.053464	-0.024493	-0.026588
6	4.10	0.305251	0.295269	0.331680	0.340178	0.364786	0.363237
7	4.12	0.620413	0.618650	0.640971	0.651187	0.666006	0.665780
8	4.14	0.798248	0.802941	0.807583	0.818134	0.820719	0.820821
9	4.16	0.801113	0.807044	0.797092	0.805689	0.795442	0.796155
10	4.18	0.620319	0.621579	0.603874	0.608505	0.587113	0.588694
11	4.20	0.285014	0.279616	0.259776	0.259076	0.230443	0.232345
12	4.22	-0.132160	-0.140654	-0.160156	-0.167250	-0.195843	-0.194308
13	4.24	-0.518708	-0.527355	-0.544357	-0.556653	-0.577018	-0.576485
14	4.26	-0.757814	-0.766396	-0.774653	-0.789682	-0.795343	-0.795345
15	4.28	-0.775105	-0.788133	-0.777975	-0.792230	-0.781070	-0.781950
16	4.30	-0.572680	-0.591823	-0.559268	-0.569263	-0.545784	-0.547723
17	4.32	-0.221876	-0.245008	-0.195998	-0.198873	-0.170959	-0.172801
18	4.34	0.173337	0.154387	0.204474	0.209670	0.235088	0.233671
19	4.36	0.516581	0.509126	0.544426	0.556704	0.574647	0.573871

20	4.38	0.737157	0.743071	0.755313	0.772672	0.779261	0.779482
21	4.40	0.795825	0.808779	0.798785	0.818150	0.812643	0.813485
22	4.42	0.677764	0.689937	0.665621	0.683440	0.666165	0.667842
23	4.44	0.403516	0.406821	0.380080	0.390743	0.365880	0.367937
24	4.46	0.027238	0.019399	-0.001857	-0.001644	-0.028884	-0.027450
25	4.48	-0.359686	-0.377251	-0.388365	-0.400615	-0.423392	-0.422643
26	4.50	-0.649288	-0.672056	-0.670945	-0.694310	-0.705401	-0.705167
27	4.52	-0.752397	-0.779013	-0.760955	-0.789553	-0.785881	-0.786685
28	4.54	-0.638463	-0.669949	-0.630467	-0.657130	-0.639136	-0.640699
29	4.56	-0.349247	-0.381545	-0.324574	-0.340770	-0.315760	-0.317370
30	4.58	0.026153	0.000599	0.061723	0.059819	0.085649	0.084263
31	4.60	0.387683	0.377330	0.424148	0.437651	0.457688	0.457192
32	4.62	0.651537	0.660397	0.679500	0.705944	0.716486	0.716670
33	4.64	0.762763	0.786749	0.774387	0.809900	0.808585	0.809167
34	4.66	0.700029	0.727380	0.692948	0.729149	0.716870	0.717730
35	4.68	0.476831	0.493739	0.454164	0.481533	0.460953	0.461907
36	4.70	0.143702	0.140044	0.111075	0.121366	0.096511	0.098250
37	4.72	-0.221151	-0.246747	-0.254599	-0.267213	-0.289889	-0.289038
38	4.74	-0.524437	-0.566836	-0.550393	-0.585613	-0.599983	-0.599585
39	4.76	-0.680677	-0.731167	-0.692426	-0.742583	-0.744143	-0.744649
40	4.78	-0.648271	-0.697203	-0.640748	-0.691444	-0.680433	-0.681341
41	4.80	-0.440249	-0.480189	-0.413195	-0.449742	-0.429079	-0.430299
42	4.82	-0.117211	-0.142149	-0.075017	-0.086903	-0.062381	-0.063985
43	4.84	0.233244	0.229640	0.279090	0.296061	0.318188	0.316436
44	4.86	0.521932	0.541988	0.558419	0.602066	0.615233	0.615112

45	4.88	0.681924	0.719041	0.698247	0.758601	0.760385	0.760652
46	4.90	0.676296	0.718240	0.669626	0.731498	0.723379	0.724183
47	4.92	0.512816	0.541052	0.485478	0.534000	0.517113	0.518625
48	4.94	0.229543	0.229422	0.190986	0.212005	0.190439	0.192414
49	4.96	-0.102532	-0.136812	-0.140553	-0.156904	-0.178382	-0.176708
50	4.98	-0.401004	-0.463252	-0.427603	-0.481820	-0.497632	-0.496361
51	5.00	-0.589869	-0.663554	-0.596400	-0.676893	-0.682246	-0.682646
52	5.02	-0.621258	-0.689935	-0.606620	-0.690419	-0.684144	-0.685761
53	5.04	-0.489838	-0.538642	-0.456208	-0.517558	-0.502284	-0.503653
54	5.06	-0.233670	-0.253897	-0.186439	-0.205718	-0.186214	-0.187062
55	5.08	0.079259	0.090091	0.128411	0.157070	0.177578	0.175801
56	5.10	0.365435	0.404125	0.403145	0.472796	0.488278	0.487192
57	5.12	0.554872	0.611567	0.571526	0.664168	0.670374	0.670413
58	5.14	0.605362	0.664524	0.597266	0.691030	0.686759	0.688176
59	5.16	0.508621	0.548570	0.478884	0.548522	0.536079	0.538145
60	5.18	0.291266	0.292642	0.248366	0.275232	0.257755	0.259095
61	5.20	0.006779	-0.039136	-0.034962	-0.063229	-0.080935	-0.080240
62	5.22	-0.272666	-0.357589	-0.299052	-0.380264	-0.395442	-0.394753
63	5.24	-0.479949	-0.581437	-0.481070	-0.598456	-0.607273	-0.606787
64	5.26	-0.565101	-0.655952	-0.539230	-0.661755	-0.660619	-0.661256
65	5.28	-0.507467	-0.563150	-0.459499	-0.549377	-0.538030	-0.540290
66	5.30	-0.324845	-0.331529	-0.268180	-0.293019	-0.276314	-0.278394
67	5.32	-0.068823	-0.027538	-0.018726	0.032575	0.050387	0.048568
68	5.34	0.193518	0.265600	0.223768	0.335934	0.349783	0.349698
69	5.36	0.396220	0.479818	0.401534	0.542007	0.549750	0.549601

70	5.38	0.493890	0.566142	0.474859	0.603395	0.603430	0.603564
71	5.40	0.466811	0.506635	0.429607	0.514095	0.506832	0.508218
72	5.42	0.323973	0.315337	0.281748	0.299046	0.285397	0.288665
73	5.44	0.105051	0.040972	0.070227	0.012017	-0.003091	-0.000323
74	5.46	-0.139621	-0.246005	-0.154952	-0.277458	-0.289570	-0.289099
75	5.48	-0.353940	-0.474957	-0.341802	-0.499612	-0.507986	-0.508593
76	5.50	-0.484757	-0.586596	-0.446246	-0.598572	-0.602109	-0.603408
77	5.52	-0.499135	-0.551870	-0.445226	-0.546438	-0.542086	-0.545299
78	5.54	-0.395637	-0.384316	-0.339734	-0.355758	-0.343918	-0.347637
79	5.56	-0.200621	-0.130441	-0.156788	-0.077869	-0.063026	-0.064816
80	5.58	0.033225	0.142508	0.054487	0.209508	0.222327	0.222929
81	5.60	0.244737	0.359565	0.238231	0.425248	0.433281	0.435640
82	5.62	0.382313	0.470111	0.351995	0.517095	0.519599	0.521433
83	5.64	0.419243	0.454289	0.375539	0.470089	0.467946	0.469208
84	5.66	0.347729	0.319586	0.305656	0.303383	0.296513	0.298090
85	5.68	0.191595	0.102536	0.164033	0.065804	0.052244	0.055168
86	5.70	-0.014025	-0.143584	-0.016626	-0.185686	-0.200284	-0.199635
87	5.72	-0.223162	-0.361324	-0.196768	-0.397032	-0.405307	-0.408807
88	5.74	-0.383618	-0.488661	-0.332045	-0.512552	-0.513489	-0.516299
89	5.76	-0.456162	-0.493341	-0.392245	-0.497823	-0.495318	-0.495183
90	5.78	-0.422201	-0.378180	-0.363358	-0.357863	-0.351945	-0.352594
91	5.80	-0.292076	-0.177609	-0.256046	-0.131022	-0.122642	-0.125189
92	5.82	-0.101460	0.047788	-0.100317	0.112052	0.121967	0.119990
93	5.84	0.100361	0.238844	0.067814	0.303775	0.311086	0.313148
94	5.86	0.262813	0.351853	0.211284	0.400552	0.403436	0.405688

95	5.88	0.352081	0.367821	0.301411	0.384473	0.382708	0.384680
96	5.90	0.353221	0.293371	0.320454	0.273432	0.270885	0.274222
97	5.92	0.267657	0.150050	0.263227	0.102672	0.100238	0.103460
98	5.94	0.112563	-0.031025	0.136173	-0.087481	-0.093558	-0.092483
99	5.96	-0.077441	-0.209517	-0.032020	-0.258167	-0.268089	-0.270371
100	5.98	-0.261021	-0.345352	-0.203094	-0.375809	-0.386006	-0.390190
101	6.00	-0.390844	-0.400919	-0.332748	-0.409741	-0.412437	-0.417668
102	6.02	-0.433895	-0.359895	-0.389249	-0.345676	-0.341692	-0.345288
103	6.04	-0.373890	-0.232882	-0.357062	-0.194608	-0.188989	-0.188706
104	6.06	-0.225785	-0.054022	-0.242965	-0.000248	0.008149	0.010080
105	6.08	-0.030705	0.123615	-0.076651	0.179050	0.188196	0.191459
106	6.10	0.162124	0.255161	0.102313	0.296271	0.302272	0.306670
107	6.12	0.302696	0.306049	0.249996	0.321392	0.320985	0.324729
108	6.14	0.359823	0.276425	0.334014	0.257727	0.254903	0.255931
109	6.16	0.325553	0.181733	0.335040	0.131929	0.128069	0.127184
110	6.18	0.209030	0.049697	0.250020	-0.017613	-0.022936	-0.025095
111	6.20	0.035287	-0.094469	0.096898	-0.161247	-0.167276	-0.168768
112	6.22	-0.152464	-0.215709	-0.086440	-0.264251	-0.268028	-0.270050
113	6.24	-0.313853	-0.288960	-0.257951	-0.311280	-0.310808	-0.314550
114	6.26	-0.405270	-0.292520	-0.374190	-0.284258	-0.281199	-0.284328
115	6.28	-0.404475	-0.228237	-0.408009	-0.191480	-0.190087	-0.191564
116	6.30	-0.310637	-0.117163	-0.349524	-0.061505	-0.063282	-0.061153
117	6.32	-0.144662	0.012762	-0.209414	0.069141	0.068009	0.072547
118	6.34	0.048409	0.129747	-0.020273	0.164269	0.168875	0.171930
119	6.36	0.222493	0.207782	0.171203	0.205963	0.212678	0.215097

120	6.38	0.330512	0.224488	0.314738	0.184852	0.188170	0.192258
121	6.40	0.349460	0.184137	0.374639	0.114244	0.113990	0.117026
122	6.42	0.275494	0.102071	0.333970	0.018742	0.019246	0.015848
123	6.44	0.129354	0.005782	0.203371	-0.068587	-0.069775	-0.077142
124	6.46	-0.054609	-0.088259	0.013295	-0.135431	-0.141587	-0.147606
125	6.48	-0.233383	-0.163778	-0.189328	-0.176077	-0.184453	-0.188157
126	6.50	-0.363271	-0.206507	-0.354123	-0.189483	-0.193600	-0.194578
127	6.52	-0.414692	-0.209208	-0.441191	-0.173933	-0.172496	-0.171549
128	6.54	-0.372776	-0.167093	-0.427721	-0.127639	-0.123268	-0.118718
129	6.56	-0.246631	-0.094940	-0.317839	-0.066144	-0.061909	-0.054540
130	6.58	-0.064003	-0.004142	-0.133981	0.001405	0.005208	0.012187
131	6.60	0.128014	0.079992	0.079166	0.056477	0.058619	0.061481
132	6.62	0.278078	0.137811	0.265856	0.085755	0.085182	0.085032
133	6.64	0.345505	0.157183	0.375518	0.084768	0.081788	0.078155
134	6.66	0.312892	0.139675	0.377362	0.063222	0.059344	0.052285
135	6.68	0.190795	0.094718	0.271540	0.031079	0.028519	0.021403
136	6.70	0.015994	0.034741	0.088249	-0.007420	-0.004777	-0.008802
137	6.72	-0.163794	-0.033564	-0.121717	-0.051093	-0.043407	-0.042744
138	6.74	-0.306532	-0.103118	-0.307441	-0.098709	-0.091119	-0.087652
139	6.76	-0.382901	-0.164078	-0.426352	-0.144199	-0.143041	-0.138432
140	6.78	-0.376590	-0.201915	-0.453955	-0.174565	-0.183054	-0.179520
141	6.80	-0.294676	-0.201780	-0.387212	-0.181625	-0.195865	-0.195640
142	6.82	-0.154269	-0.153557	-0.237428	-0.156825	-0.168800	-0.168078
143	6.84	0.013651	-0.065297	-0.035366	-0.104867	-0.106592	-0.103433
144	6.86	0.171880	0.042158	0.173080	-0.031921	-0.022894	-0.018530

145	6.88	0.282075	0.139682	0.333065	0.047696	0.063007	0.064312
146	6.90	0.313039	0.196483	0.395681	0.111905	0.124277	0.119315
147	6.92	0.251969	0.197212	0.337445	0.142712	0.146113	0.138270
148	6.94	0.114225	0.143675	0.173577	0.127329	0.121554	0.112809
149	6.96	-0.061291	0.053367	-0.046180	0.066296	0.055956	0.050193
150	6.98	-0.226562	-0.052815	-0.258019	-0.030752	-0.038176	-0.038037
151	7.00	-0.340858	-0.148120	-0.406552	-0.139369	-0.138858	-0.131838
152	7.02	-0.380955	-0.213754	-0.460222	-0.230521	-0.223361	-0.210315
153	7.04	-0.335639	-0.232331	-0.410280	-0.276057	-0.266695	-0.253400
154	7.06	-0.218489	-0.206846	-0.277591	-0.261834	-0.258797	-0.254711
155	7.08	-0.058677	-0.140491	-0.097084	-0.189573	-0.200131	-0.207548
156	7.10	0.104241	-0.043316	0.090092	-0.081330	-0.102156	-0.115389
157	7.12	0.227659	0.069227	0.244172	0.034708	0.015975	0.005115
158	7.14	0.279498	0.169490	0.331266	0.126712	0.125142	0.121720
159	7.16	0.243746	0.221023	0.323494	0.167792	0.189579	0.195462
160	7.18	0.143603	0.214071	0.225345	0.159559	0.196018	0.204480
161	7.20	0.014901	0.150559	0.060138	0.114192	0.144472	0.148862
162	7.22	-0.112960	0.045582	-0.130651	0.041011	0.044686	0.043387
163	7.24	-0.218479	-0.071682	-0.297214	-0.054445	-0.077573	-0.081745
164	7.26	-0.282008	-0.171068	-0.394437	-0.157995	-0.192230	-0.194805
165	7.28	-0.290988	-0.230770	-0.403021	-0.242946	-0.270954	-0.269835
166	7.30	-0.240218	-0.235565	-0.322413	-0.282415	-0.292391	-0.288034
167	7.32	-0.138531	-0.184594	-0.174446	-0.260485	-0.250178	-0.245664
168	7.34	-0.008547	-0.090686	0.004751	-0.176813	-0.156693	-0.153327
169	7.36	0.122317	0.022357	0.174805	-0.051630	-0.035338	-0.034533

170	7.38	0.220844	0.122547	0.290889	0.080794	0.087430	0.081001
171	7.40	0.261139	0.190875	0.322518	0.186011	0.180852	0.169755
172	7.42	0.229937	0.220175	0.264930	0.234988	0.227965	0.218680
173	7.44	0.137720	0.209344	0.139682	0.217125	0.218426	0.219549
174	7.46	0.013072	0.158372	-0.016816	0.143220	0.155064	0.165522
175	7.48	-0.110649	0.069127	-0.165837	0.032174	0.046875	0.057840
176	7.50	-0.200154	-0.043729	-0.277130	-0.089575	-0.085047	-0.080035
177	7.52	-0.238867	-0.149949	-0.327063	-0.193165	-0.205151	-0.206297
178	7.54	-0.221700	-0.218083	-0.304169	-0.251968	-0.276186	-0.281882
179	7.56	-0.154039	-0.225342	-0.212716	-0.254249	-0.279935	-0.286332
180	7.58	-0.053350	-0.172166	-0.073507	-0.202603	-0.218094	-0.222132
181	7.60	0.058196	-0.070344	0.081223	-0.109475	-0.108496	-0.107331
182	7.62	0.156384	0.051328	0.214161	0.005949	0.023806	0.028207
183	7.64	0.221890	0.167732	0.295366	0.123937	0.152264	0.156886
184	7.66	0.242263	0.249645	0.303357	0.217908	0.245670	0.248234
185	7.68	0.215052	0.281660	0.237955	0.270219	0.286963	0.285138
186	7.70	0.140597	0.252619	0.113693	0.260690	0.260082	0.255005
187	7.72	0.034780	0.169073	-0.038133	0.183845	0.168111	0.162501
188	7.74	-0.075136	0.052185	-0.176047	0.058466	0.034823	0.031729
189	7.76	-0.157305	-0.068065	-0.261378	-0.081427	-0.102722	-0.100884
190	7.78	-0.189899	-0.160978	-0.272436	-0.197216	-0.210260	-0.204251
191	7.80	-0.164846	-0.203042	-0.210268	-0.258033	-0.260973	-0.253516
192	7.82	-0.092945	-0.189872	-0.094194	-0.254755	-0.247430	-0.243098
193	7.84	0.002702	-0.132875	0.038768	-0.192786	-0.181094	-0.181255
194	7.86	0.103644	-0.042762	0.157355	-0.084070	-0.073766	-0.078406

195	7.88	0.185018	0.065814	0.234721	0.051417	0.055772	0.050145
196	7.90	0.227988	0.175799	0.259224	0.185227	0.186269	0.180555
197	7.92	0.222414	0.260641	0.226206	0.286359	0.286821	0.284855
198	7.94	0.178380	0.302458	0.153514	0.330406	0.336997	0.338070
199	7.96	0.108454	0.285629	0.059283	0.306161	0.317310	0.320714
200	7.98	0.035095	0.210045	-0.032272	0.217517	0.225083	0.228510
201	8.00	-0.024423	0.091099	-0.099857	0.079417	0.075709	0.078187

Data Pengukuran S-Parameter (S_{21} real)
SEKAM PADI DAN ECENG GONDOK

No	Frekuensi	SP 50	SP 60	SP 70	EG 50	EG 60	EG 70
1	4.00	0.000064	-0.000040	0.000026	0.000106	0.000043	0.000062
2	4.02	0.000095	0.000109	0.000044	0.000155	0.000069	0.000031
3	4.04	0.000060	0.000050	0.000016	0.000043	0.000030	0.000054
4	4.06	0.000009	-0.000143	-0.000127	-0.000119	-0.000157	-0.000121
5	4.08	-0.000112	-0.000095	-0.000123	-0.000080	-0.000055	-0.000034
6	4.10	-0.000061	-0.000049	-0.000060	-0.000042	-0.000070	-0.000094
7	4.12	0.000039	0.000112	-0.000005	0.000064	0.000085	0.000019
8	4.14	0.000176	0.000118	0.000081	0.000112	0.000079	0.000080
9	4.16	0.000064	0.000040	0.000069	0.000099	0.000162	0.000034
10	4.18	-0.000071	-0.000069	-0.000059	0.000003	-0.000041	-0.000013
11	4.20	-0.000132	-0.000095	-0.000099	-0.000091	-0.000081	-0.000093
12	4.22	-0.000042	-0.000102	-0.000037	-0.000067	-0.000142	-0.000134
13	4.24	-0.000038	-0.000099	-0.000048	-0.000037	-0.000031	-0.000029

14	4.26	0.000065	0.000143	0.000106	0.000150	0.000067	0.000144
15	4.28	0.000166	0.000244	0.000140	0.000127	0.000179	0.000086
16	4.30	0.000083	0.000112	0.000098	0.000113	0.000141	0.000085
17	4.32	0.000065	0.000020	0.000015	0.000091	0.000040	0.000104
18	4.34	-0.000144	-0.000139	-0.000025	-0.000148	-0.000142	-0.000188
19	4.36	-0.000361	-0.000279	-0.000294	-0.000327	-0.000274	-0.000296
20	4.38	-0.000346	-0.000171	-0.000277	-0.000253	-0.000249	-0.000210
21	4.40	0.000113	0.000110	0.000056	0.000111	0.000043	0.000013
22	4.42	0.000267	0.000305	0.000341	0.000329	0.000335	0.000307
23	4.44	0.000386	0.000314	0.000445	0.000304	0.000275	0.000404
24	4.46	0.000120	0.000130	0.000041	0.000113	0.000112	0.000158
25	4.48	-0.000215	-0.000223	-0.000218	-0.000188	-0.000194	-0.000119
26	4.50	-0.000344	-0.000352	-0.000400	-0.000327	-0.000323	-0.000299
27	4.52	-0.000346	-0.000315	-0.000295	-0.000345	-0.000298	-0.000321
28	4.54	-0.000225	-0.000090	-0.000128	-0.000139	-0.000111	-0.000190
29	4.56	0.000153	0.000177	0.000239	0.000092	0.000206	0.000164
30	4.58	0.000393	0.000404	0.000371	0.000316	0.000375	0.000400
31	4.60	0.000453	0.000401	0.000349	0.000332	0.000304	0.000376
32	4.62	0.000317	0.000231	0.000212	0.000154	0.000209	0.000177
33	4.64	-0.000172	-0.000138	-0.000255	-0.000124	-0.000168	-0.000145
34	4.66	-0.000610	-0.000489	-0.000444	-0.000512	-0.000492	-0.000395
35	4.68	-0.000668	-0.000544	-0.000498	-0.000470	-0.000363	-0.000421
36	4.70	-0.000143	-0.000113	-0.000008	-0.000026	-0.000036	-0.000065
37	4.72	0.000197	0.000252	0.000393	0.000238	0.000255	0.000229
38	4.74	0.000598	0.000560	0.000555	0.000460	0.000453	0.000465

39	4.76	0.000528	0.000476	0.000422	0.000360	0.000338	0.000399
40	4.78	0.000046	-0.000090	-0.000157	-0.000126	-0.000087	-0.000121
41	4.80	-0.000232	-0.000332	-0.000429	-0.000326	-0.000265	-0.000352
42	4.82	-0.000441	-0.000345	-0.000297	-0.000159	-0.000253	-0.000220
43	4.84	-0.000355	-0.000207	-0.000168	0.000004	-0.000057	0.000065
44	4.86	-0.000162	0.000009	0.000001	-0.000060	0.000091	0.000090
45	4.88	0.000106	0.000029	0.000028	-0.000057	0.000097	-0.000034
46	4.90	0.000121	-0.000016	0.000027	-0.000068	-0.000145	-0.000188
47	4.92	0.000309	0.000131	0.000144	-0.000054	-0.000120	-0.000042
48	4.94	0.000372	0.000290	0.000318	0.000291	0.000123	0.000151
49	4.96	0.000164	0.000188	0.000149	0.000271	0.000209	0.000176
50	4.98	0.000066	0.000059	0.000083	0.000248	0.000254	0.000274
51	5.00	-0.000408	-0.000221	-0.000295	-0.000064	0.000103	0.000117
52	5.02	-0.000585	-0.000188	-0.000363	-0.000223	-0.000074	-0.000294
53	5.04	-0.000441	-0.000289	-0.000256	-0.000278	-0.000352	-0.000497
54	5.06	0.000014	-0.000276	0.000008	-0.000399	-0.000535	-0.000410
55	5.08	0.000285	-0.000258	0.000031	-0.000371	-0.000492	-0.000307
56	5.10	0.000523	0.000208	0.000265	0.000159	0.000038	0.000089
57	5.12	0.000792	0.000763	0.000816	0.000773	0.000917	0.000726
58	5.14	0.000471	0.000758	0.000595	0.000954	0.000819	0.000942
59	5.16	-0.000332	0.000304	-0.000029	0.000404	0.000534	0.000541
60	5.18	-0.000929	-0.000315	-0.000590	-0.000308	-0.000235	-0.000180
61	5.20	-0.000925	-0.000916	-0.001014	-0.001014	-0.000875	-0.000826
62	5.22	-0.000910	-0.001422	-0.001124	-0.001412	-0.001550	-0.001559
63	5.24	0.000056	-0.000942	-0.000234	-0.000804	-0.001050	-0.001095

64	5.26	0.001219	0.000717	0.001044	0.000396	0.000430	0.000362
65	5.28	0.001547	0.001695	0.001668	0.001347	0.001478	0.001584
66	5.30	0.001487	0.002355	0.001717	0.002215	0.002215	0.002271
67	5.32	0.000009	0.000985	0.000142	0.001287	0.001323	0.001182
68	5.34	-0.001966	-0.001614	-0.001927	-0.000851	-0.000990	-0.001133
69	5.36	-0.002304	-0.002691	-0.002317	-0.002120	-0.002210	-0.002218
70	5.38	-0.001086	-0.001892	-0.001392	-0.002182	-0.002065	-0.002086
71	5.40	0.000779	0.000158	0.000761	-0.000465	-0.000306	-0.000141
72	5.42	0.001548	0.001348	0.001612	0.000680	0.000723	0.000910
73	5.44	0.001387	0.001656	0.001576	0.001177	0.001130	0.001198
74	5.46	0.001139	0.001782	0.001269	0.001542	0.001434	0.001338
75	5.48	0.000152	0.000447	0.000179	0.001269	0.000993	0.000910
76	5.50	-0.000702	-0.000495	-0.000719	0.000825	0.000553	0.000473
77	5.52	-0.001489	-0.001205	-0.001604	-0.000714	-0.000523	-0.000540
78	5.54	-0.001535	-0.001449	-0.001784	-0.001802	-0.001419	-0.001247
79	5.56	-0.000761	-0.001396	-0.001018	-0.002065	-0.001710	-0.001726
80	5.58	0.000276	-0.000814	0.000287	-0.001754	-0.001518	-0.001593
81	5.60	0.001276	0.000406	0.001650	-0.000175	-0.000450	-0.000309
82	5.62	0.001873	0.001933	0.002202	0.001985	0.001024	0.001356
83	5.64	0.001373	0.002598	0.001951	0.003465	0.002967	0.002909
84	5.66	0.000589	0.002139	0.000822	0.003055	0.003304	0.003210
85	5.68	-0.000288	0.001020	-0.000724	0.001513	0.002143	0.002283
86	5.70	-0.002342	-0.002298	-0.003178	-0.002312	-0.001748	-0.001452
87	5.72	-0.002736	-0.004236	-0.003541	-0.004871	-0.004423	-0.004769
88	5.74	-0.002068	-0.004688	-0.002139	-0.005196	-0.005267	-0.005710

89	5.76	-0.000192	-0.002121	0.000615	-0.002979	-0.003772	-0.003487
90	5.78	0.002115	0.002313	0.003604	0.001266	0.000447	0.000955
91	5.80	0.004337	0.006974	0.005459	0.006517	0.006202	0.006677
92	5.82	0.003935	0.007367	0.004109	0.008070	0.008889	0.009004
93	5.84	0.001409	0.003718	-0.000192	0.006013	0.006884	0.006220
94	5.86	-0.002806	-0.004207	-0.005297	-0.001147	-0.001141	-0.001863
95	5.88	-0.006401	-0.010720	-0.008057	-0.010091	-0.010317	-0.011162
96	5.90	-0.006690	-0.010726	-0.005973	-0.014103	-0.014049	-0.013620
97	5.92	-0.001694	-0.002789	0.001004	-0.007666	-0.007364	-0.005689
98	5.94	0.005035	0.007408	0.007826	0.005782	0.005237	0.006253
99	5.96	0.007922	0.011378	0.009157	0.014343	0.012937	0.012366
100	5.98	0.006226	0.009953	0.004798	0.013722	0.013044	0.011729
101	6.00	0.001533	0.003581	-0.001298	0.004977	0.005849	0.005638
102	6.02	-0.004226	-0.005604	-0.006906	-0.005497	-0.004635	-0.003764
103	6.04	-0.007825	-0.012500	-0.008648	-0.013029	-0.011855	-0.012133
104	6.06	-0.006861	-0.012056	-0.005899	-0.013516	-0.012866	-0.013735
105	6.08	-0.003629	-0.006970	-0.001822	-0.009476	-0.009791	-0.010083
106	6.10	0.001778	0.004302	0.005233	0.001780	-0.000574	0.001275
107	6.12	0.008562	0.016080	0.012090	0.016292	0.013956	0.015492
108	6.14	0.011293	0.018843	0.011598	0.021868	0.022705	0.021640
109	6.16	0.006146	0.006649	0.000951	0.009890	0.012336	0.011174
110	6.18	-0.003250	-0.010379	-0.010450	-0.008964	-0.007160	-0.007913
111	6.20	-0.011282	-0.018412	-0.013325	-0.018619	-0.019121	-0.018908
112	6.22	-0.011266	-0.015168	-0.008349	-0.016296	-0.017511	-0.018253
113	6.24	-0.005876	-0.005219	-0.000015	-0.007195	-0.008264	-0.007702

114	6.26	0.002088	0.007057	0.007416	0.004309	0.004075	0.005563
115	6.28	0.008474	0.015757	0.011400	0.013761	0.014020	0.015158
116	6.30	0.011520	0.016612	0.009529	0.016828	0.017878	0.017039
117	6.32	0.009701	0.008624	0.003338	0.012996	0.012476	0.010720
118	6.34	0.002241	-0.005569	-0.005650	-0.000057	-0.000839	-0.002077
119	6.36	-0.008904	-0.016382	-0.012192	-0.014260	-0.015109	-0.014417
120	6.38	-0.017017	-0.018876	-0.012236	-0.022152	-0.020165	-0.019094
121	6.40	-0.011790	-0.007341	-0.003534	-0.013244	-0.010777	-0.010528
122	6.42	-0.000382	0.005578	0.005910	0.002164	0.001587	0.002115
123	6.44	0.010467	0.014564	0.011498	0.014642	0.012462	0.012987
124	6.46	0.014093	0.013546	0.009182	0.015973	0.013725	0.013396
125	6.48	0.009497	0.007105	0.003387	0.009989	0.009871	0.008579
126	6.50	0.002283	0.000419	-0.001889	0.002361	0.003897	0.003738
127	6.52	-0.004663	-0.006490	-0.006029	-0.005963	-0.004341	-0.003817
128	6.54	-0.009529	-0.011319	-0.007621	-0.010814	-0.009512	-0.010229
129	6.56	-0.011687	-0.011807	-0.006722	-0.012303	-0.012376	-0.012336
130	6.58	-0.009710	-0.008591	-0.004320	-0.011657	-0.012603	-0.011678
131	6.60	-0.002617	-0.000431	0.000909	-0.004081	-0.004627	-0.004058
132	6.62	0.009423	0.011917	0.008610	0.010324	0.009735	0.009525
133	6.64	0.017377	0.019921	0.012979	0.020923	0.019018	0.019190
134	6.66	0.016411	0.017125	0.010722	0.019965	0.019430	0.019982
135	6.68	0.005462	0.001985	0.000818	0.006284	0.008164	0.007386
136	6.70	-0.009778	-0.015257	-0.010664	-0.010596	-0.008730	-0.010730
137	6.72	-0.020900	-0.023953	-0.017236	-0.023720	-0.021868	-0.023540
138	6.74	-0.021151	-0.019168	-0.014547	-0.024864	-0.023735	-0.022631

139	6.76	-0.009984	-0.005801	-0.003339	-0.012664	-0.014189	-0.011208
140	6.78	0.007635	0.011229	0.010423	0.007371	0.004186	0.005844
141	6.80	0.023071	0.024949	0.019808	0.026177	0.023587	0.022456
142	6.82	0.027999	0.027859	0.019655	0.033718	0.032423	0.030689
143	6.84	0.015509	0.012165	0.006357	0.019540	0.021285	0.020278
144	6.86	-0.007635	-0.012056	-0.011526	-0.008598	-0.003613	-0.004043
145	6.88	-0.026915	-0.030324	-0.022646	-0.031950	-0.029013	-0.028736
146	6.90	-0.030617	-0.030728	-0.021124	-0.035683	-0.036133	-0.036188
147	6.92	-0.017355	-0.014295	-0.007769	-0.018990	-0.022498	-0.021990
148	6.94	0.004594	0.008238	0.008426	0.006250	0.001357	0.002062
149	6.96	0.025362	0.029835	0.021483	0.027710	0.026566	0.027884
150	6.98	0.034215	0.037068	0.024874	0.036073	0.038618	0.040767
151	7.00	0.023467	0.022299	0.014837	0.026073	0.030241	0.029560
152	7.02	0.000226	-0.007828	-0.004177	0.001121	0.003029	-0.000916
153	7.04	-0.026655	-0.036057	-0.024741	-0.026929	-0.029400	-0.032814
154	7.06	-0.039198	-0.041124	-0.032338	-0.040554	-0.042788	-0.043492
155	7.08	-0.029364	-0.020845	-0.019897	-0.031853	-0.031263	-0.027539
156	7.10	-0.001971	0.010100	0.006364	-0.005459	-0.003140	0.002229
157	7.12	0.028200	0.033567	0.029572	0.025406	0.026397	0.028760
158	7.14	0.042478	0.037864	0.034492	0.043339	0.040794	0.037635
159	7.16	0.031881	0.022780	0.017664	0.038739	0.034206	0.028417
160	7.18	0.003350	-0.003100	-0.007324	0.011473	0.009979	0.006956
161	7.20	-0.027506	-0.028101	-0.027218	-0.025216	-0.021337	-0.019473
162	7.22	-0.044006	-0.041401	-0.032650	-0.051427	-0.045603	-0.041785
163	7.24	-0.035006	-0.030148	-0.020792	-0.044997	-0.041940	-0.039611

164	7.26	-0.003439	0.002405	0.005109	-0.006108	-0.007860	-0.008141
165	7.28	0.030859	0.032180	0.028200	0.035222	0.028708	0.027245
166	7.30	0.040838	0.038050	0.029879	0.045779	0.040971	0.039785
167	7.32	0.026103	0.022944	0.015494	0.029115	0.030062	0.029404
168	7.34	0.000954	-0.001247	-0.003737	0.002079	0.005967	0.006710
169	7.36	-0.019384	-0.021546	-0.017683	-0.019629	-0.016648	-0.015925
170	7.38	-0.027377	-0.028688	-0.022010	-0.029001	-0.028596	-0.029159
171	7.40	-0.024574	-0.023207	-0.017803	-0.026792	-0.027765	-0.029172
172	7.42	-0.012794	-0.009525	-0.007038	-0.014707	-0.015424	-0.015762
173	7.44	0.005861	0.009849	0.009188	0.004640	0.004570	0.006869
174	7.46	0.023073	0.026463	0.022219	0.023393	0.022869	0.025857
175	7.48	0.032091	0.029773	0.024891	0.032746	0.030908	0.030603
176	7.50	0.022665	0.016324	0.012827	0.025061	0.022651	0.019407
177	7.52	-0.000802	-0.007491	-0.008397	0.001221	0.000724	-0.002034
178	7.54	-0.026352	-0.026290	-0.024857	-0.024591	-0.021556	-0.022212
179	7.56	-0.034859	-0.029080	-0.024503	-0.035212	-0.030634	-0.028898
180	7.58	-0.020493	-0.014973	-0.009113	-0.022691	-0.020652	-0.018195
181	7.60	0.003622	0.004847	0.008478	0.000194	-0.001526	0.000144
182	7.62	0.020763	0.018431	0.017643	0.018091	0.013720	0.013092
183	7.64	0.024810	0.021733	0.016807	0.024773	0.020728	0.018723
184	7.66	0.017310	0.015980	0.008461	0.019650	0.019331	0.017803
185	7.68	0.003597	0.003992	-0.000732	0.007933	0.010330	0.010652
186	7.70	-0.008921	-0.007812	-0.006997	-0.005324	-0.001602	-0.000545
187	7.72	-0.016647	-0.015950	-0.010685	-0.015925	-0.014103	-0.012867
188	7.74	-0.018074	-0.019821	-0.012609	-0.021853	-0.022250	-0.022313

189	7.76	-0.014292	-0.014515	-0.010131	-0.018641	-0.019382	-0.020877
190	7.78	-0.003528	-0.001203	-0.002379	-0.005277	-0.006637	-0.007762
191	7.80	0.010799	0.014347	0.009447	0.012826	0.011057	0.011387
192	7.82	0.026055	0.026685	0.020722	0.027260	0.026142	0.028303
193	7.84	0.023906	0.022231	0.017896	0.023591	0.024458	0.027185
194	7.86	0.005337	0.002771	0.002826	0.006395	0.008648	0.007952
195	7.88	-0.014299	-0.017861	-0.012841	-0.011549	-0.010852	-0.014588
196	7.90	-0.023971	-0.025394	-0.020288	-0.021057	-0.022623	-0.024892
197	7.92	-0.021633	-0.019303	-0.017167	-0.021643	-0.022223	-0.021426
198	7.94	-0.010257	-0.004012	-0.005219	-0.012678	-0.010687	-0.008017
199	7.96	0.007723	0.011738	0.009850	0.002329	0.005357	0.007728
200	7.98	0.019715	0.018465	0.016782	0.015282	0.015786	0.016022
201	8.00	0.021635	0.016614	0.015663	0.022082	0.018113	0.017003

Data Pengukuran S-Parameter (S_{21} Imaginer)
SEKAM PADI DAN ECENG GONDOK

NO	FREKUNSI	SP 50	SP 60	SP 70	EG 50	EG 60	EG 70
1	4.00	0.000035	-0.000014	0.000036	0.000023	0.000048	0.000067
2	4.02	-0.000015	0.000081	-0.000025	0.000022	-0.000057	-0.000008
3	4.04	-0.000038	-0.000099	-0.000093	-0.000066	-0.000153	-0.000054
4	4.06	-0.000031	-0.000113	-0.000045	-0.000033	-0.000087	-0.000064
5	4.08	0.000001	-0.000038	-0.000051	-0.000009	-0.000017	0.000021
6	4.10	0.000074	0.000090	0.000074	0.000086	0.000006	0.000080
7	4.12	0.000129	0.000117	0.000139	0.000132	0.000120	0.000153
8	4.14	0.000046	0.000015	0.000039	-0.000017	-0.000014	-0.000046
9	4.16	-0.000137	-0.000041	-0.000019	-0.000097	-0.000145	-0.000130
10	4.18	-0.000148	-0.000148	-0.000132	-0.000105	-0.000081	-0.000110
11	4.20	-0.000022	-0.000107	-0.000033	-0.000013	-0.000051	-0.000026
12	4.22	0.000105	0.000049	0.000075	0.000053	0.000029	0.000114
13	4.24	0.000153	0.000179	0.000146	0.000148	0.000118	0.000154
14	4.26	0.000162	0.000144	0.000119	0.000131	0.000160	0.000063
15	4.28	0.000048	0.000018	-0.000027	0.000012	0.000054	0.000048
16	4.30	-0.000082	-0.000067	-0.000139	-0.000167	-0.000065	-0.000136
17	4.32	-0.000238	-0.000139	-0.000166	-0.000260	-0.000206	-0.000137

18	4.34	-0.000258	-0.000182	-0.000204	-0.000199	-0.000189	-0.000256
19	4.36	-0.000053	-0.000014	0.000019	-0.000025	-0.000105	-0.000041
20	4.38	0.000294	0.000195	0.000270	0.000237	0.000227	0.000187
21	4.40	0.000443	0.000393	0.000313	0.000345	0.000307	0.000359
22	4.42	0.000177	0.000202	0.000086	0.000205	0.000229	0.000227
23	4.44	-0.000170	-0.000137	-0.000077	-0.000154	-0.000175	-0.000081
24	4.46	-0.000419	-0.000419	-0.000415	-0.000378	-0.000366	-0.000337
25	4.48	-0.000314	-0.000293	-0.000321	-0.000310	-0.000344	-0.000320
26	4.50	-0.000140	-0.000067	-0.000020	-0.000092	-0.000058	-0.000126
27	4.52	0.000169	0.000131	0.000164	0.000192	0.000196	0.000171
28	4.54	0.000310	0.000298	0.000329	0.000325	0.000299	0.000301
29	4.56	0.000401	0.000358	0.000395	0.000349	0.000277	0.000350
30	4.58	0.000102	0.000148	0.000062	0.000161	0.000039	0.000130
31	4.60	-0.000146	-0.000067	-0.000191	-0.000107	-0.000070	-0.000158
32	4.62	-0.000577	-0.000419	-0.000360	-0.000383	-0.000428	-0.000450
33	4.64	-0.000566	-0.000514	-0.000538	-0.000493	-0.000485	-0.000518
34	4.66	-0.000272	-0.000159	-0.000148	-0.000103	-0.000084	-0.000174
35	4.68	0.000237	0.000335	0.000303	0.000259	0.000262	0.000212
36	4.70	0.000669	0.000529	0.000638	0.000530	0.000479	0.000510
37	4.72	0.000588	0.000409	0.000413	0.000248	0.000273	0.000427
38	4.74	0.000183	0.000156	0.000005	0.000000	0.000045	0.000076
39	4.76	-0.000437	-0.000335	-0.000477	-0.000272	-0.000246	-0.000343
40	4.78	-0.000593	-0.000481	-0.000538	-0.000350	-0.000374	-0.000339
41	4.80	-0.000499	-0.000249	-0.000234	-0.000164	-0.000219	-0.000170
42	4.82	-0.000085	0.000041	0.000126	0.000010	0.000101	0.000107

43	4.84	0.000224	0.000185	0.000194	0.000152	0.000144	0.000071
44	4.86	0.000397	0.000222	0.000169	0.000114	0.000091	-0.000049
45	4.88	0.000281	0.000130	0.000092	-0.000003	0.000013	-0.000091
46	4.90	0.000107	0.000113	0.000024	-0.000038	-0.000126	0.000019
47	4.92	0.000161	0.000193	0.000137	0.000209	0.000184	0.000186
48	4.94	-0.000002	0.000031	0.000043	0.000224	0.000192	0.000236
49	4.96	-0.000364	-0.000170	-0.000354	-0.000136	0.000016	0.000048
50	4.98	-0.000518	-0.000260	-0.000335	-0.000317	-0.000175	-0.000152
51	5.00	-0.000277	-0.000183	-0.000201	-0.000260	-0.000213	-0.000318
52	5.02	-0.000029	-0.000125	-0.000085	-0.000314	-0.000438	-0.000328
53	5.04	0.000418	-0.000045	0.000287	-0.000221	-0.000292	-0.000202
54	5.06	0.000608	0.000304	0.000385	0.000136	0.000174	0.000261
55	5.08	0.000286	0.000433	0.000237	0.000421	0.000406	0.000421
56	5.10	0.000237	0.000555	0.000468	0.000796	0.000840	0.000807
57	5.12	-0.000189	0.000302	0.000200	0.000487	0.000671	0.000651
58	5.14	-0.000723	-0.000340	-0.000580	-0.000401	-0.000250	-0.000309
59	5.16	-0.000888	-0.000838	-0.001077	-0.000981	-0.000858	-0.000914
60	5.18	-0.000496	-0.000957	-0.000810	-0.001022	-0.001077	-0.001041
61	5.20	-0.000121	-0.000811	-0.000381	-0.000804	-0.000945	-0.000773
62	5.22	0.000729	0.000122	0.000687	0.000098	0.000102	0.000049
63	5.24	0.001598	0.001651	0.001719	0.001510	0.001460	0.001419
64	5.26	0.001209	0.001828	0.001505	0.001780	0.001687	0.001938
65	5.28	-0.000032	0.000959	0.000385	0.001130	0.001098	0.001307
66	5.30	-0.001154	-0.000589	-0.001499	-0.000251	-0.000170	-0.000336
67	5.32	-0.002379	-0.002719	-0.002646	-0.002242	-0.002231	-0.002382

68	5.34	-0.001482	-0.002470	-0.001646	-0.002240	-0.002350	-0.002226
69	5.36	0.000593	-0.000445	0.000471	-0.000916	-0.000908	-0.000702
70	5.38	0.001936	0.001771	0.002055	0.001149	0.001226	0.001176
71	5.40	0.002035	0.002589	0.002208	0.001976	0.002140	0.001924
72	5.42	0.000730	0.001350	0.000806	0.001329	0.001425	0.001303
73	5.44	-0.000503	0.000071	-0.000368	0.000867	0.000574	0.000674
74	5.46	-0.001123	-0.000984	-0.001161	0.000262	-0.000207	-0.000082
75	5.48	-0.001401	-0.001396	-0.001568	-0.001148	-0.000868	-0.001118
76	5.50	-0.001050	-0.001300	-0.001249	-0.001809	-0.001249	-0.001434
77	5.52	-0.000324	-0.000974	-0.000440	-0.001649	-0.001348	-0.001326
78	5.54	0.000457	-0.000186	0.000558	-0.000820	-0.000849	-0.000711
79	5.56	0.001163	0.000709	0.001042	0.000045	-0.000017	0.000003
80	5.58	0.001451	0.001900	0.001813	0.001744	0.001569	0.001340
81	5.60	0.001005	0.002038	0.001631	0.002903	0.002117	0.002295
82	5.62	0.000416	0.001390	0.000945	0.002681	0.002305	0.002440
83	5.64	-0.000622	0.000055	-0.001007	0.000621	0.001384	0.001398
84	5.66	-0.001419	-0.001507	-0.002201	-0.001850	-0.000619	-0.001037
85	5.68	-0.002265	-0.003458	-0.003096	-0.004351	-0.003602	-0.003821
86	5.70	-0.001812	-0.003630	-0.002048	-0.004292	-0.004647	-0.004740
87	5.72	0.000084	-0.001013	0.000594	-0.001709	-0.002826	-0.002609
88	5.74	0.002330	0.002388	0.003608	0.001933	0.001150	0.001435
89	5.76	0.003495	0.005177	0.005109	0.005047	0.005134	0.005587
90	5.78	0.003336	0.005813	0.003510	0.006810	0.006912	0.007131
91	5.80	0.000618	0.002548	-0.000962	0.003977	0.004438	0.004159
92	5.82	-0.003002	-0.002605	-0.004476	-0.001159	-0.000212	-0.001252

93	5.84	-0.005488	-0.008526	-0.006905	-0.007669	-0.007455	-0.007816
94	5.86	-0.004487	-0.009239	-0.004983	-0.010554	-0.010908	-0.010507
95	5.88	-0.001360	-0.003247	0.000541	-0.007518	-0.007707	-0.007669
96	5.90	0.003558	0.005737	0.006778	0.002241	0.001693	0.002918
97	5.92	0.007724	0.012212	0.009734	0.014061	0.013335	0.014088
98	5.94	0.006413	0.009453	0.004737	0.014454	0.014109	0.013278
99	5.96	0.000905	0.002279	-0.002102	0.005374	0.005795	0.004296
100	5.98	-0.004624	-0.005948	-0.007023	-0.006409	-0.005597	-0.005882
101	6.00	-0.007497	-0.011397	-0.008289	-0.013542	-0.012578	-0.011615
102	6.02	-0.006514	-0.011544	-0.005805	-0.013479	-0.012520	-0.011931
103	6.04	-0.002357	-0.004110	-0.000359	-0.006059	-0.006302	-0.006391
104	6.06	0.002782	0.005520	0.005554	0.003834	0.002279	0.001770
105	6.08	0.007176	0.012829	0.010251	0.012542	0.011116	0.011217
106	6.10	0.009764	0.014960	0.010055	0.017623	0.016708	0.018079
107	6.12	0.006952	0.008396	0.003220	0.012706	0.013862	0.014080
108	6.14	-0.003095	-0.006511	-0.009350	-0.005513	-0.003215	-0.004557
109	6.16	-0.012349	-0.019520	-0.014804	-0.020823	-0.019582	-0.021414
110	6.18	-0.013348	-0.018467	-0.010205	-0.019974	-0.021188	-0.020561
111	6.20	-0.004374	-0.004370	0.000108	-0.005887	-0.007803	-0.005964
112	6.22	0.005458	0.010104	0.009400	0.007155	0.006888	0.007469
113	6.24	0.010518	0.016556	0.012730	0.015141	0.015485	0.015757
114	6.26	0.010734	0.015133	0.009291	0.016602	0.016890	0.016400
115	6.28	0.006111	0.006241	0.001484	0.009670	0.010059	0.009358
116	6.30	-0.001359	-0.006314	-0.007003	-0.001773	-0.001924	-0.003018
117	6.32	-0.008138	-0.014552	-0.011423	-0.012448	-0.012319	-0.013498

118	6.34	-0.012917	-0.017496	-0.010943	-0.019226	-0.019510	-0.018209
119	6.36	-0.011911	-0.010877	-0.004859	-0.016146	-0.015805	-0.013894
120	6.38	0.000555	0.006950	0.007195	0.001272	0.003094	0.002950
121	6.40	0.010948	0.016394	0.011985	0.015643	0.015492	0.014731
122	6.42	0.013935	0.015873	0.009784	0.020435	0.016832	0.016796
123	6.44	0.009406	0.007272	0.003215	0.012391	0.009568	0.009783
124	6.46	0.000285	-0.003494	-0.003248	-0.000987	-0.000145	-0.000386
125	6.48	-0.006912	-0.010122	-0.007503	-0.010651	-0.007544	-0.007926
126	6.50	-0.010083	-0.011788	-0.008510	-0.013285	-0.011303	-0.011731
127	6.52	-0.009506	-0.008893	-0.005873	-0.010408	-0.010542	-0.010386
128	6.54	-0.006444	-0.004439	-0.002030	-0.006978	-0.007405	-0.007569
129	6.56	0.001456	0.003558	0.003883	0.001302	-0.000022	0.000353
130	6.58	0.008514	0.010419	0.008043	0.009280	0.008214	0.008704
131	6.60	0.013795	0.015286	0.010370	0.016691	0.015020	0.016375
132	6.62	0.013917	0.013616	0.008690	0.016900	0.016584	0.015997
133	6.64	0.003900	0.001623	0.000596	0.005349	0.007037	0.006222
134	6.66	-0.009757	-0.012792	-0.009846	-0.010293	-0.008216	-0.009194
135	6.68	-0.019569	-0.022432	-0.016456	-0.022715	-0.021336	-0.022078
136	6.70	-0.017629	-0.017847	-0.012996	-0.021864	-0.021449	-0.021521
137	6.72	-0.006266	-0.003309	-0.001793	-0.009404	-0.009885	-0.008599
138	6.74	0.009251	0.013718	0.011029	0.009041	0.006968	0.008755
139	6.76	0.020631	0.024075	0.018858	0.024024	0.021989	0.022265
140	6.78	0.022246	0.022634	0.016551	0.028427	0.027065	0.025870
141	6.80	0.012763	0.009448	0.006200	0.017334	0.017746	0.016660
142	6.82	-0.007170	-0.012260	-0.009971	-0.007002	-0.004591	-0.005025

143	6.84	-0.025769	-0.029716	-0.023057	-0.030914	-0.027355	-0.027173
144	6.86	-0.028705	-0.029501	-0.022692	-0.036551	-0.034694	-0.034538
145	6.88	-0.015347	-0.011561	-0.008613	-0.019028	-0.020828	-0.020343
146	6.90	0.007251	0.012643	0.010858	0.009856	0.005159	0.005383
147	6.92	0.026604	0.029878	0.024814	0.031976	0.027769	0.028190
148	6.94	0.032129	0.032433	0.025556	0.035555	0.036045	0.036809
149	6.96	0.020031	0.018538	0.012541	0.021869	0.025827	0.026610
150	6.98	-0.003359	-0.007990	-0.007259	-0.002322	0.000035	-0.000513
151	7.00	-0.027338	-0.034063	-0.026305	-0.028056	-0.028414	-0.030867
152	7.02	-0.037710	-0.040667	-0.032364	-0.040062	-0.041356	-0.044215
153	7.04	-0.025864	-0.021325	-0.017081	-0.028614	-0.029710	-0.029463
154	7.06	0.002884	0.011178	0.009727	-0.002101	-0.000036	0.004024
155	7.08	0.030764	0.036232	0.029900	0.026296	0.028447	0.033108
156	7.10	0.039961	0.038504	0.032415	0.041815	0.040278	0.039602
157	7.12	0.025921	0.020257	0.016654	0.035275	0.030459	0.025766
158	7.14	-0.003059	-0.007892	-0.008310	0.007561	0.004139	0.000637
159	7.16	-0.028183	-0.029746	-0.027244	-0.024226	-0.022394	-0.022315
160	7.18	-0.037434	-0.036466	-0.030789	-0.044641	-0.038665	-0.036327
161	7.20	-0.028135	-0.026993	-0.019672	-0.043733	-0.037462	-0.035405
162	7.22	-0.002695	-0.000584	0.002562	-0.013024	-0.012861	-0.012079
163	7.24	0.025529	0.029971	0.025403	0.030587	0.023931	0.023156
164	7.26	0.040018	0.042948	0.034276	0.053192	0.046320	0.045298
165	7.28	0.028956	0.026528	0.020497	0.038329	0.036656	0.035846
166	7.30	0.000236	-0.005176	-0.005487	-0.000053	0.003651	0.004388
167	7.32	-0.023045	-0.027008	-0.022933	-0.029177	-0.022575	-0.022422

168	7.34	-0.031093	-0.032073	-0.026328	-0.036699	-0.033917	-0.033562
169	7.36	-0.023450	-0.021722	-0.016951	-0.026220	-0.026794	-0.027926
170	7.38	-0.007699	-0.003428	-0.002398	-0.007652	-0.009612	-0.011132
171	7.40	0.009769	0.014646	0.012662	0.011272	0.009348	0.010193
172	7.42	0.024558	0.026477	0.022539	0.025791	0.024431	0.027152
173	7.44	0.029595	0.026625	0.022581	0.029806	0.028745	0.030527
174	7.46	0.018184	0.012998	0.010340	0.019440	0.018401	0.017391
175	7.48	-0.004565	-0.008307	-0.008556	-0.001441	-0.001842	-0.004222
176	7.50	-0.026234	-0.026298	-0.023657	-0.023110	-0.021716	-0.023854
177	7.52	-0.034382	-0.030356	-0.026002	-0.034847	-0.030405	-0.030603
178	7.54	-0.020747	-0.016263	-0.012571	-0.025620	-0.021933	-0.019840
179	7.56	0.006682	0.007154	0.007661	0.000611	-0.000732	0.001469
180	7.58	0.026296	0.023835	0.021948	0.023557	0.018853	0.019280
181	7.60	0.026691	0.024834	0.021399	0.028951	0.024733	0.023673
182	7.62	0.013675	0.013627	0.010229	0.019366	0.018193	0.016611
183	7.64	-0.001568	-0.000738	-0.003407	0.004249	0.005650	0.005139
184	7.66	-0.013384	-0.013386	-0.013179	-0.011628	-0.007576	-0.007343
185	7.68	-0.018111	-0.018636	-0.014966	-0.020558	-0.016450	-0.015948
186	7.70	-0.015396	-0.016368	-0.012173	-0.020164	-0.019560	-0.019077
187	7.72	-0.007964	-0.009182	-0.006009	-0.012950	-0.014881	-0.015456
188	7.74	0.000946	0.002378	0.002684	-0.000786	-0.003229	-0.004207
189	7.76	0.011452	0.014580	0.012045	0.014354	0.012125	0.012226
190	7.78	0.019612	0.021960	0.016750	0.023637	0.022365	0.024004
191	7.80	0.021290	0.020056	0.015923	0.022647	0.023556	0.025098
192	7.82	0.008216	0.003478	0.003371	0.006820	0.009026	0.009253

193	7.84	-0.014359	-0.017306	-0.013797	-0.013841	-0.012306	-0.013654
194	7.86	-0.028106	-0.027169	-0.023590	-0.025393	-0.025394	-0.027935
195	7.88	-0.023248	-0.020256	-0.017765	-0.021714	-0.023091	-0.024725
196	7.90	-0.004686	-0.001441	-0.001054	-0.008022	-0.007699	-0.006740
197	7.92	0.012690	0.014133	0.012849	0.005859	0.007955	0.010884
198	7.94	0.022910	0.022029	0.019441	0.018365	0.019523	0.021685
199	7.96	0.021584	0.017854	0.015419	0.022277	0.019574	0.019607
200	7.98	0.009204	0.006300	0.004742	0.015629	0.011183	0.009148
201	8.00	-0.006882	-0.006596	-0.006403	0.002024	-0.000515	-0.002848

**NILAI REFLECTION LOSS (S_{11}) HASIL PENGUKURAN
SEKAM PADI DAN ECENG GONDOK**

No	Frekuensi	RH 50	RH 60	RH 70	WH 50	WH 60	WH 70
1	4.00	-1.30	-1.30	-1.30	-1.30	-1.31	-1.31
2	4.02	-1.29	-1.29	-1.29	-1.29	-1.30	-1.30
3	4.04	-1.28	-1.28	-1.28	-1.29	-1.30	-1.29
4	4.06	-1.29	-1.30	-1.29	-1.29	-1.31	-1.30
5	4.08	-1.33	-1.33	-1.32	-1.33	-1.34	-1.34
6	4.10	-1.38	-1.38	-1.38	-1.39	-1.40	-1.39
7	4.12	-1.44	-1.44	-1.44	-1.44	-1.45	-1.45
8	4.14	-1.48	-1.48	-1.47	-1.48	-1.49	-1.49
9	4.16	-1.49	-1.49	-1.49	-1.49	-1.50	-1.49
10	4.18	-1.47	-1.47	-1.47	-1.47	-1.48	-1.48
11	4.20	-1.44	-1.44	-1.44	-1.44	-1.45	-1.45
12	4.22	-1.41	-1.41	-1.40	-1.41	-1.41	-1.41
13	4.24	-1.38	-1.38	-1.38	-1.38	-1.39	-1.38
14	4.26	-1.38	-1.38	-1.38	-1.38	-1.39	-1.38
15	4.28	-1.42	-1.42	-1.42	-1.43	-1.43	-1.42
16	4.30	-1.51	-1.51	-1.50	-1.51	-1.52	-1.51
17	4.32	-1.61	-1.61	-1.61	-1.62	-1.63	-1.61
18	4.34	-1.71	-1.71	-1.71	-1.72	-1.72	-1.71
19	4.36	-1.77	-1.77	-1.77	-1.78	-1.79	-1.78
20	4.38	-1.79	-1.79	-1.79	-1.80	-1.80	-1.79
21	4.40	-1.77	-1.77	-1.77	-1.78	-1.78	-1.77
22	4.42	-1.72	-1.71	-1.72	-1.73	-1.73	-1.72
23	4.44	-1.65	-1.65	-1.65	-1.66	-1.66	-1.65
24	4.46	-1.60	-1.60	-1.60	-1.61	-1.61	-1.60
25	4.48	-1.59	-1.59	-1.59	-1.60	-1.60	-1.58
26	4.50	-1.62	-1.62	-1.62	-1.63	-1.63	-1.62
27	4.52	-1.71	-1.71	-1.71	-1.72	-1.72	-1.70
28	4.54	-1.84	-1.84	-1.84	-1.85	-1.85	-1.84
29	4.56	-1.97	-1.97	-1.97	-1.99	-1.99	-1.97
30	4.58	-2.08	-2.08	-2.08	-2.09	-2.10	-2.08
31	4.60	-2.13	-2.13	-2.13	-2.15	-2.15	-2.12
32	4.62	-2.13	-2.12	-2.12	-2.14	-2.14	-2.12
33	4.64	-2.06	-2.06	-2.06	-2.08	-2.08	-2.06
34	4.66	-1.99	-1.99	-1.99	-2.01	-2.00	-1.98
35	4.68	-1.94	-1.94	-1.93	-1.95	-1.95	-1.93
36	4.70	-1.94	-1.93	-1.94	-1.95	-1.95	-1.93
37	4.72	-1.99	-1.98	-1.98	-2.01	-2.00	-1.98
38	4.74	-2.09	-2.09	-2.09	-2.11	-2.10	-2.08

39	4.76	-2.23	-2.23	-2.23	-2.24	-2.24	-2.22
40	4.78	-2.37	-2.38	-2.37	-2.39	-2.39	-2.36
41	4.80	-2.51	-2.51	-2.51	-2.53	-2.52	-2.50
42	4.82	-2.60	-2.59	-2.59	-2.62	-2.60	-2.57
43	4.84	-2.62	-2.61	-2.61	-2.64	-2.63	-2.61
44	4.86	-2.59	-2.58	-2.59	-2.62	-2.61	-2.58
45	4.88	-2.54	-2.53	-2.54	-2.57	-2.56	-2.53
46	4.90	-2.48	-2.48	-2.49	-2.51	-2.51	-2.48
47	4.92	-2.47	-2.46	-2.47	-2.49	-2.48	-2.46
48	4.94	-2.51	-2.49	-2.51	-2.53	-2.51	-2.49
49	4.96	-2.61	-2.60	-2.62	-2.63	-2.62	-2.59
50	4.98	-2.75	-2.75	-2.76	-2.78	-2.76	-2.74
51	5.00	-2.94	-2.93	-2.95	-2.96	-2.94	-2.93
52	5.02	-3.12	-3.10	-3.13	-3.14	-3.11	-3.10
53	5.04	-3.27	-3.25	-3.27	-3.29	-3.26	-3.25
54	5.06	-3.37	-3.36	-3.37	-3.39	-3.36	-3.35
55	5.08	-3.41	-3.40	-3.42	-3.43	-3.40	-3.39
56	5.10	-3.40	-3.40	-3.43	-3.44	-3.41	-3.40
57	5.12	-3.42	-3.42	-3.44	-3.45	-3.44	-3.41
58	5.14	-3.43	-3.43	-3.44	-3.46	-3.44	-3.42
59	5.16	-3.46	-3.47	-3.48	-3.49	-3.48	-3.45
60	5.18	-3.52	-3.52	-3.53	-3.55	-3.54	-3.51
61	5.20	-3.61	-3.62	-3.62	-3.65	-3.63	-3.60
62	5.22	-3.71	-3.72	-3.71	-3.74	-3.72	-3.70
63	5.24	-3.81	-3.82	-3.80	-3.85	-3.82	-3.81
64	5.26	-3.93	-3.94	-3.91	-3.96	-3.95	-3.93
65	5.28	-4.07	-4.09	-4.05	-4.12	-4.11	-4.08
66	5.30	-4.27	-4.29	-4.25	-4.32	-4.32	-4.28
67	5.32	-4.49	-4.51	-4.47	-4.53	-4.54	-4.48
68	5.34	-4.75	-4.77	-4.74	-4.80	-4.79	-4.75
69	5.36	-5.02	-5.04	-4.99	-5.05	-5.04	-5.00
70	5.38	-5.24	-5.26	-5.20	-5.26	-5.24	-5.21
71	5.40	-5.36	-5.36	-5.33	-5.38	-5.35	-5.34
72	5.42	-5.39	-5.39	-5.38	-5.43	-5.40	-5.39
73	5.44	-5.36	-5.35	-5.35	-5.41	-5.38	-5.37
74	5.46	-5.27	-5.28	-5.27	-5.35	-5.30	-5.30
75	5.48	-5.19	-5.21	-5.20	-5.28	-5.25	-5.23
76	5.50	-5.21	-5.23	-5.22	-5.29	-5.27	-5.24
77	5.52	-5.36	-5.39	-5.38	-5.44	-5.40	-5.38
78	5.54	-5.68	-5.69	-5.71	-5.75	-5.71	-5.69
79	5.56	-6.14	-6.16	-6.19	-6.21	-6.15	-6.16
80	5.58	-6.72	-6.75	-6.80	-6.81	-6.72	-6.75
81	5.60	-7.38	-7.40	-7.46	-7.45	-7.36	-7.41
82	5.62	-7.98	-7.98	-8.06	-8.05	-7.93	-7.99
83	5.64	-8.39	-8.35	-8.47	-8.43	-8.27	-8.36

84	5.66	-8.50	-8.43	-8.60	-8.54	-8.36	-8.47
85	5.68	-8.40	-8.33	-8.52	-8.45	-8.26	-8.37
86	5.70	-8.22	-8.12	-8.34	-8.25	-8.06	-8.17
87	5.72	-8.10	-8.01	-8.26	-8.14	-7.95	-8.04
88	5.74	-8.09	-8.00	-8.29	-8.12	-7.93	-8.05
89	5.76	-8.39	-8.30	-8.60	-8.40	-8.17	-8.33
90	5.78	-8.97	-8.88	-9.17	-8.96	-8.70	-8.91
91	5.80	-9.77	-9.69	-9.94	-9.78	-9.44	-9.71
92	5.82	-10.76	-10.69	-10.83	-10.78	-10.35	-10.70
93	5.84	-11.80	-11.78	-11.76	-11.82	-11.36	-11.73
94	5.86	-12.72	-12.81	-12.60	-12.79	-12.37	-12.73
95	5.88	-13.27	-13.48	-13.07	-13.35	-13.04	-13.34
96	5.90	-13.37	-13.69	-13.16	-13.49	-13.26	-13.50
97	5.92	-13.09	-13.51	-12.92	-13.25	-13.06	-13.22
98	5.94	-12.85	-13.23	-12.65	-12.96	-12.82	-12.92
99	5.96	-12.78	-13.05	-12.54	-12.85	-12.64	-12.78
100	5.98	-12.75	-12.91	-12.51	-12.75	-12.54	-12.65
101	6.00	-12.85	-13.05	-12.69	-12.91	-12.64	-12.77
102	6.02	-13.26	-13.56	-13.13	-13.36	-13.09	-13.14
103	6.04	-13.87	-14.26	-13.76	-14.05	-13.71	-13.80
104	6.06	-14.81	-15.17	-14.57	-14.99	-14.59	-14.67
105	6.08	-15.90	-16.23	-15.58	-16.09	-15.62	-15.76
106	6.10	-16.89	-17.16	-16.50	-17.10	-16.50	-16.72
107	6.12	-17.46	-17.70	-17.07	-17.68	-17.03	-17.30
108	6.14	-17.67	-17.90	-17.35	-17.99	-17.27	-17.55
109	6.16	-17.72	-17.93	-17.43	-18.08	-17.22	-17.56
110	6.18	-17.45	-17.66	-17.32	-17.76	-16.94	-17.29
111	6.20	-17.26	-17.44	-17.23	-17.52	-16.67	-17.06
112	6.22	-17.11	-17.23	-17.15	-17.37	-16.47	-16.88
113	6.24	-16.98	-17.02	-17.09	-17.17	-16.28	-16.69
114	6.26	-16.81	-16.70	-17.01	-16.86	-15.95	-16.31
115	6.28	-16.74	-16.65	-17.14	-16.81	-15.88	-16.27
116	6.30	-17.03	-16.96	-17.60	-17.14	-16.15	-16.61
117	6.32	-17.55	-17.56	-18.32	-17.68	-16.66	-17.17
118	6.34	-18.41	-18.48	-19.51	-18.55	-17.33	-18.03
119	6.36	-19.63	-19.81	-21.33	-19.91	-18.39	-19.27
120	6.38	-21.18	-21.33	-23.62	-21.48	-19.87	-20.78
121	6.40	-22.82	-23.20	-25.78	-23.21	-21.68	-22.55
122	6.42	-23.87	-24.43	-26.93	-24.51	-23.40	-24.14
123	6.44	-24.91	-24.76	-28.15	-25.56	-24.52	-25.10
124	6.46	-25.37	-23.51	-29.66	-25.94	-24.39	-25.50
125	6.48	-25.53	-22.10	-33.83	-26.09	-23.19	-25.48
126	6.50	-25.52	-21.14	-33.01	-25.55	-21.86	-24.99
127	6.52	-25.36	-21.05	-27.43	-25.16	-21.01	-24.35
128	6.54	-25.08	-21.65	-24.56	-24.73	-20.88	-23.94

129	6.56	-25.19	-23.26	-22.98	-24.78	-21.64	-24.36
130	6.58	-26.14	-25.80	-22.80	-25.77	-23.13	-25.71
131	6.60	-28.11	-29.92	-23.59	-27.42	-25.23	-27.89
132	6.62	-28.44	-33.05	-25.62	-28.79	-28.24	-28.42
133	6.64	-32.78	-29.94	-28.48	-30.64	-30.13	-31.22
134	6.66	-28.26	-25.83	-28.56	-29.24	-27.48	-29.22
135	6.68	-25.44	-23.49	-24.08	-25.86	-23.72	-28.36
136	6.70	-21.92	-21.95	-20.42	-21.95	-21.09	-23.75
137	6.72	-18.98	-20.02	-17.75	-18.70	-18.74	-19.93
138	6.74	-16.93	-18.41	-16.38	-16.60	-17.08	-17.40
139	6.76	-15.78	-17.40	-15.95	-15.37	-16.07	-15.87
140	6.78	-15.68	-17.51	-16.49	-15.27	-15.95	-15.44
141	6.80	-16.96	-19.30	-17.40	-16.57	-17.31	-16.44
142	6.82	-19.86	-23.33	-18.68	-19.25	-20.16	-18.87
143	6.84	-23.27	-27.97	-19.42	-22.35	-23.49	-22.17
144	6.86	-25.35	-29.14	-19.23	-24.25	-25.09	-24.58
145	6.88	-24.42	-31.52	-17.73	-24.22	-26.21	-25.07
146	6.90	-20.93	-33.61	-15.67	-21.81	-27.29	-22.53
147	6.92	-17.74	-25.09	-13.71	-18.94	-24.76	-19.19
148	6.94	-15.39	-19.05	-12.51	-16.71	-20.56	-16.58
149	6.96	-13.61	-15.31	-11.75	-14.78	-17.02	-14.57
150	6.98	-12.47	-12.98	-11.65	-13.50	-14.69	-13.24
151	7.00	-11.86	-11.57	-12.11	-12.82	-13.27	-12.56
152	7.02	-11.71	-10.79	-12.88	-12.63	-12.43	-12.37
153	7.04	-11.95	-10.44	-13.80	-12.75	-12.00	-12.47
154	7.06	-12.23	-10.32	-14.55	-12.97	-11.81	-12.71
155	7.08	-12.23	-10.12	-14.71	-12.78	-11.51	-12.58
156	7.10	-11.70	-9.66	-14.13	-12.15	-10.91	-12.03
157	7.12	-10.87	-9.07	-13.02	-11.22	-10.02	-11.07
158	7.14	-10.26	-8.57	-12.15	-10.45	-9.27	-10.27
159	7.16	-9.85	-8.40	-11.45	-9.95	-8.75	-9.75
160	7.18	-9.80	-8.56	-11.17	-9.74	-8.55	-9.56
161	7.20	-10.18	-9.16	-11.38	-9.98	-8.81	-9.83
162	7.22	-11.02	-10.16	-12.15	-10.71	-9.50	-10.56
163	7.24	-12.26	-11.36	-13.60	-11.78	-10.51	-11.63
164	7.26	-13.53	-12.35	-15.39	-12.97	-11.69	-12.82
165	7.28	-14.53	-12.97	-16.77	-14.01	-12.65	-13.95
166	7.30	-15.13	-13.16	-17.28	-14.62	-13.25	-14.67
167	7.32	-15.10	-13.13	-16.74	-14.61	-13.37	-14.78
168	7.34	-14.66	-12.86	-15.71	-14.10	-12.99	-14.44
169	7.36	-14.00	-12.50	-14.35	-13.38	-12.48	-13.97
170	7.38	-13.11	-12.14	-12.72	-12.62	-12.03	-13.33
171	7.40	-12.30	-11.87	-11.28	-11.96	-11.70	-12.68
172	7.42	-11.48	-11.61	-9.96	-11.19	-11.41	-11.88
173	7.44	-10.50	-11.31	-8.85	-10.38	-11.04	-10.99

174	7.46	-9.77	-11.15	-8.18	-9.79	-10.77	-10.34
175	7.48	-9.34	-11.14	-7.77	-9.33	-10.61	-9.88
176	7.50	-9.22	-11.34	-7.68	-9.23	-10.72	-9.79
177	7.52	-9.28	-11.54	-7.86	-9.40	-11.02	-9.85
178	7.54	-9.38	-11.63	-8.01	-9.62	-11.39	-9.98
179	7.56	-9.36	-11.50	-8.09	-9.78	-11.63	-10.05
180	7.58	-9.34	-11.34	-8.20	-9.85	-11.72	-10.05
181	7.60	-9.37	-11.12	-8.30	-9.88	-11.68	-10.11
182	7.62	-9.35	-10.85	-8.39	-10.02	-11.59	-10.20
183	7.64	-9.16	-10.40	-8.38	-9.97	-11.30	-10.08
184	7.66	-8.78	-9.74	-8.19	-9.66	-10.83	-9.74
185	7.68	-8.29	-9.02	-7.88	-9.10	-10.13	-9.17
186	7.70	-7.70	-8.22	-7.48	-8.42	-9.28	-8.45
187	7.72	-7.22	-7.53	-7.21	-7.79	-8.47	-7.79
188	7.74	-6.88	-6.96	-7.13	-7.30	-7.79	-7.28
189	7.76	-6.77	-6.64	-7.29	-7.06	-7.35	-7.02
190	7.78	-6.93	-6.57	-7.75	-7.10	-7.19	-7.05
191	7.80	-7.39	-6.78	-8.52	-7.45	-7.35	-7.39
192	7.82	-8.11	-7.27	-9.55	-8.10	-7.82	-8.02
193	7.84	-8.93	-7.90	-10.66	-8.90	-8.45	-8.82
194	7.86	-9.71	-8.48	-11.65	-9.64	-9.01	-9.57
195	7.88	-10.21	-8.84	-12.26	-10.09	-9.32	-10.03
196	7.90	-10.49	-9.02	-12.52	-10.30	-9.41	-10.24
197	7.92	-10.56	-9.00	-12.53	-10.32	-9.29	-10.23
198	7.94	-10.54	-9.00	-12.35	-10.26	-9.13	-10.19
199	7.96	-10.65	-9.15	-12.26	-10.28	-9.17	-10.25
200	7.98	-11.12	-9.70	-12.51	-10.74	-9.60	-10.71
201	8.00	-11.72	-10.46	-12.95	-11.35	-10.37	-11.35

**NILAI TRANSMISSION LOSS (S_{21}) HASIL PENGUKURAN
SEKAM PADI DAN ECENG GONDOK**

No	Frekuensi	SP 50	SP 60	SP 70	EG 50	EG 60	EG 70
1	4.00	-75.27	-75.26	-77.21	-73.78	-75.02	-77.61
2	4.02	-78.93	-73.68	-74.27	-72.94	-76.01	-78.40
3	4.04	-73.24	-72.37	-72.02	-73.91	-76.33	-72.35
4	4.06	-72.85	-70.54	-70.60	-72.66	-72.66	-72.08
5	4.08	-71.56	-69.07	-68.94	-71.03	-70.29	-74.03
6	4.10	-67.30	-69.51	-68.47	-70.18	-70.89	-69.08
7	4.12	-70.05	-69.85	-68.76	-68.39	-68.46	-68.44
8	4.14	-68.16	-69.90	-68.26	-70.51	-69.23	-68.02
9	4.16	-69.75	-69.74	-70.38	-71.29	-68.23	-67.97
10	4.18	-70.35	-75.56	-71.54	-72.60	-72.40	-71.59
11	4.20	-71.58	-73.74	-70.88	-70.25	-73.88	-72.66
12	4.22	-69.63	-73.46	-77.69	-74.91	-72.91	-73.51
13	4.24	-74.64	-74.20	-74.47	-74.18	-73.89	-77.06
14	4.26	-73.27	-75.83	-71.00	-73.45	-72.95	-74.87
15	4.28	-74.34	-77.38	-78.98	-75.77	-73.91	-74.45
16	4.30	-74.96	-75.61	-75.07	-74.39	-75.03	-73.51
17	4.32	-74.58	-75.71	-78.12	-74.88	-75.68	-74.82
18	4.34	-72.28	-74.62	-72.38	-73.78	-72.33	-73.53
19	4.36	-70.78	-72.47	-73.88	-71.20	-72.75	-70.88
20	4.38	-70.51	-69.24	-69.95	-67.58	-69.25	-68.16
21	4.40	-66.66	-66.27	-66.43	-66.41	-67.42	-66.86
22	4.42	-65.27	-65.25	-66.08	-66.23	-66.61	-65.38
23	4.44	-64.62	-65.37	-66.09	-64.08	-64.22	-64.80
24	4.46	-63.92	-65.32	-65.34	-63.39	-64.32	-63.83
25	4.48	-63.26	-64.00	-63.66	-63.47	-64.23	-63.13
26	4.50	-62.74	-62.83	-63.94	-62.99	-62.09	-63.12
27	4.52	-61.89	-62.86	-62.92	-62.01	-61.39	-63.49
28	4.54	-61.44	-61.33	-63.48	-61.79	-60.77	-62.37
29	4.56	-61.14	-61.49	-62.97	-60.73	-60.87	-61.75
30	4.58	-61.63	-61.45	-63.16	-61.74	-60.70	-61.67
31	4.60	-61.19	-60.56	-63.09	-61.00	-60.30	-61.40
32	4.62	-61.92	-60.37	-61.76	-61.04	-60.00	-60.53
33	4.64	-60.32	-59.37	-60.91	-60.18	-59.58	-60.02
34	4.66	-60.15	-57.65	-59.72	-58.93	-58.33	-59.63
35	4.68	-59.39	-57.55	-59.05	-58.11	-57.63	-58.84
36	4.70	-58.42	-56.95	-58.67	-57.83	-57.46	-57.85
37	4.72	-57.33	-56.72	-57.80	-57.22	-57.70	-57.09
38	4.74	-56.60	-56.80	-57.91	-57.41	-57.82	-57.65

39	4.76	-55.50	-55.56	-56.36	-56.17	-56.73	-56.14
40	4.78	-54.67	-54.37	-55.83	-55.21	-56.09	-55.54
41	4.80	-53.82	-53.25	-54.63	-53.97	-54.40	-54.58
42	4.82	-52.99	-52.82	-53.64	-53.33	-53.76	-53.69
43	4.84	-52.26	-52.04	-53.10	-52.67	-52.51	-52.77
44	4.86	-51.43	-51.41	-51.45	-51.33	-51.70	-51.59
45	4.88	-50.95	-51.08	-50.71	-50.19	-50.94	-50.56
46	4.90	-50.30	-50.94	-50.08	-49.85	-50.32	-49.99
47	4.92	-49.84	-50.46	-49.65	-49.50	-49.79	-49.15
48	4.94	-49.86	-50.51	-49.23	-48.80	-49.14	-48.71
49	4.96	-48.83	-49.69	-48.92	-48.49	-48.63	-48.30
50	4.98	-48.32	-49.17	-48.71	-47.93	-48.24	-47.69
51	5.00	-48.00	-48.82	-48.14	-47.80	-47.57	-47.43
52	5.02	-47.60	-48.28	-48.05	-47.35	-47.19	-46.97
53	5.04	-47.04	-47.82	-47.66	-46.91	-46.71	-46.52
54	5.06	-46.55	-47.46	-47.28	-46.64	-46.40	-46.29
55	5.08	-46.31	-46.68	-47.32	-46.45	-46.16	-45.96
56	5.10	-46.13	-46.65	-47.41	-46.49	-46.24	-46.06
57	5.12	-46.60	-46.97	-48.06	-46.94	-46.72	-46.53
58	5.14	-46.67	-47.35	-47.82	-46.98	-46.98	-46.97
59	5.16	-46.50	-47.05	-47.23	-46.59	-47.04	-46.85
60	5.18	-45.92	-46.41	-46.42	-45.82	-46.73	-46.35
61	5.20	-45.16	-45.28	-45.59	-45.20	-45.79	-45.31
62	5.22	-44.15	-44.00	-44.64	-44.15	-44.79	-44.31
63	5.24	-42.93	-42.75	-43.47	-42.83	-43.26	-43.14
64	5.26	-42.04	-41.70	-42.60	-41.70	-41.99	-41.93
65	5.28	-40.83	-40.57	-41.51	-40.40	-40.43	-40.75
66	5.30	-40.01	-39.54	-40.80	-39.75	-39.49	-40.09
67	5.32	-39.20	-38.72	-40.11	-38.87	-38.39	-39.31
68	5.34	-38.47	-38.14	-39.49	-38.21	-37.73	-38.85
69	5.36	-38.36	-38.07	-39.43	-38.13	-37.52	-38.64
70	5.38	-38.20	-37.96	-39.19	-37.93	-37.47	-38.44
71	5.40	-37.77	-37.82	-39.03	-37.67	-37.25	-38.00
72	5.42	-37.73	-38.31	-38.99	-37.56	-36.98	-37.60
73	5.44	-38.12	-38.93	-39.28	-37.67	-37.10	-37.39
74	5.46	-38.45	-39.25	-39.53	-37.72	-37.26	-37.23
75	5.48	-38.76	-39.52	-39.83	-37.70	-37.35	-37.18
76	5.50	-39.09	-39.63	-40.13	-38.00	-37.78	-37.53
77	5.52	-39.13	-39.50	-40.07	-37.98	-37.83	-37.65
78	5.54	-39.19	-39.07	-39.93	-38.09	-37.95	-37.83
79	5.56	-38.72	-38.28	-39.37	-37.71	-37.75	-37.69
80	5.58	-37.63	-37.09	-38.08	-36.88	-37.23	-36.95
81	5.60	-36.54	-35.80	-36.62	-35.92	-36.48	-36.05
82	5.62	-35.49	-34.75	-35.21	-34.98	-35.77	-35.30
83	5.64	-34.27	-33.85	-33.93	-33.94	-34.94	-34.37

84	5.66	-33.30	-33.15	-32.80	-32.96	-33.87	-33.41
85	5.68	-32.42	-32.69	-32.00	-32.22	-33.03	-32.63
86	5.70	-31.79	-32.42	-31.45	-31.69	-32.43	-32.02
87	5.72	-31.09	-31.92	-30.78	-31.09	-31.75	-31.30
88	5.74	-30.32	-31.15	-30.13	-30.40	-30.93	-30.57
89	5.76	-29.58	-30.47	-29.54	-29.67	-30.17	-29.78
90	5.78	-28.82	-29.65	-29.03	-28.93	-29.35	-29.04
91	5.80	-28.05	-28.70	-28.47	-28.14	-28.43	-28.27
92	5.82	-27.04	-27.36	-27.94	-27.00	-27.08	-27.14
93	5.84	-26.19	-26.34	-27.48	-26.10	-25.97	-26.22
94	5.86	-25.20	-25.25	-26.90	-25.14	-24.64	-25.24
95	5.88	-24.42	-24.30	-26.41	-24.37	-23.51	-24.50
96	5.90	-23.96	-23.67	-26.06	-23.79	-22.62	-23.90
97	5.92	-24.09	-23.76	-26.07	-23.90	-22.60	-24.05
98	5.94	-24.67	-24.24	-26.55	-24.40	-23.08	-24.57
99	5.96	-25.50	-24.88	-26.89	-25.00	-23.85	-25.29
100	5.98	-25.84	-25.19	-26.95	-25.36	-24.41	-25.60
101	6.00	-26.03	-25.40	-26.88	-25.63	-24.87	-25.81
102	6.02	-26.02	-25.58	-26.64	-25.69	-25.11	-25.78
103	6.04	-25.78	-25.64	-26.24	-25.49	-25.23	-25.56
104	6.06	-25.14	-25.44	-25.44	-24.89	-25.18	-24.91
105	6.08	-24.66	-25.24	-24.67	-24.14	-24.87	-24.16
106	6.10	-24.08	-24.77	-23.96	-23.43	-24.42	-23.38
107	6.12	-23.31	-24.08	-23.13	-22.58	-23.54	-22.59
108	6.14	-22.74	-23.44	-22.65	-22.17	-22.91	-22.14
109	6.16	-22.59	-23.11	-22.59	-22.15	-22.61	-22.11
110	6.18	-22.81	-23.12	-22.72	-22.28	-22.59	-22.24
111	6.20	-23.52	-23.73	-23.30	-22.92	-23.13	-23.00
112	6.22	-24.27	-24.48	-23.87	-23.58	-23.65	-23.71
113	6.24	-24.81	-25.19	-24.45	-24.25	-24.23	-24.30
114	6.26	-25.44	-25.67	-24.99	-24.89	-24.77	-24.91
115	6.28	-25.47	-25.37	-25.05	-24.93	-24.67	-25.01
116	6.30	-25.11	-24.89	-24.95	-24.72	-24.37	-24.81
117	6.32	-24.19	-23.91	-24.40	-23.98	-23.53	-24.25
118	6.34	-22.94	-22.60	-23.62	-22.94	-22.50	-23.37
119	6.36	-21.52	-20.95	-22.56	-21.50	-21.20	-21.98
120	6.38	-20.00	-19.32	-21.53	-20.14	-19.84	-20.56
121	6.40	-18.88	-18.19	-20.79	-19.03	-18.75	-19.42
122	6.42	-18.26	-17.72	-20.46	-18.47	-18.18	-18.78
123	6.44	-18.04	-17.59	-20.35	-18.22	-17.89	-18.46
124	6.46	-18.02	-17.66	-20.24	-18.11	-17.76	-18.30
125	6.48	-18.01	-17.75	-20.25	-18.06	-17.63	-18.19
126	6.50	-17.96	-17.67	-20.17	-17.95	-17.45	-18.10
127	6.52	-17.85	-17.45	-20.24	-17.83	-17.15	-17.95
128	6.54	-17.57	-16.99	-19.99	-17.48	-16.75	-17.68

129	6.56	-17.28	-16.51	-19.71	-17.22	-16.33	-17.41
130	6.58	-16.83	-15.98	-19.13	-16.73	-15.82	-16.95
131	6.60	-16.27	-15.46	-18.61	-16.24	-15.23	-16.48
132	6.62	-15.86	-15.03	-18.10	-15.79	-14.80	-16.08
133	6.64	-15.67	-15.06	-17.83	-15.60	-14.53	-15.92
134	6.66	-15.64	-15.12	-17.64	-15.49	-14.38	-15.80
135	6.68	-15.78	-15.30	-17.58	-15.54	-14.41	-15.84
136	6.70	-15.98	-15.52	-17.58	-15.69	-14.58	-15.97
137	6.72	-16.17	-15.72	-17.55	-15.88	-14.75	-16.12
138	6.74	-16.38	-15.95	-17.53	-16.15	-15.12	-16.41
139	6.76	-16.37	-15.95	-17.12	-16.16	-15.33	-16.40
140	6.78	-16.21	-15.85	-16.44	-16.01	-15.48	-16.19
141	6.80	-16.04	-15.86	-15.76	-15.79	-15.66	-15.88
142	6.82	-15.61	-15.87	-15.02	-15.41	-15.81	-15.34
143	6.84	-15.09	-15.87	-14.36	-15.02	-15.84	-14.82
144	6.86	-14.68	-15.81	-13.91	-14.65	-15.77	-14.38
145	6.88	-14.27	-15.54	-13.60	-14.26	-15.40	-13.94
146	6.90	-13.92	-15.13	-13.35	-13.85	-14.95	-13.61
147	6.92	-13.49	-14.47	-13.03	-13.32	-14.33	-13.15
148	6.94	-13.24	-13.97	-12.95	-12.95	-13.84	-12.84
149	6.96	-12.95	-13.53	-12.88	-12.62	-13.40	-12.55
150	6.98	-12.80	-13.24	-12.88	-12.35	-13.03	-12.30
151	7.00	-12.70	-13.10	-13.02	-12.26	-12.81	-12.19
152	7.02	-12.77	-13.20	-13.34	-12.30	-12.74	-12.23
153	7.04	-12.97	-13.46	-13.74	-12.56	-12.86	-12.48
154	7.06	-13.27	-13.83	-14.21	-12.85	-13.01	-12.78
155	7.08	-13.77	-14.30	-14.92	-13.31	-13.25	-13.28
156	7.10	-14.45	-14.91	-15.76	-13.96	-13.70	-13.93
157	7.12	-15.43	-15.80	-16.89	-14.82	-14.37	-14.83
158	7.14	-16.45	-16.71	-17.85	-15.66	-15.15	-15.69
159	7.16	-17.42	-17.57	-18.86	-16.59	-15.94	-16.59
160	7.18	-18.42	-18.37	-19.81	-17.38	-16.64	-17.40
161	7.20	-19.03	-18.68	-20.33	-18.00	-17.14	-18.03
162	7.22	-19.12	-18.29	-20.40	-18.12	-17.06	-18.32
163	7.24	-18.64	-17.34	-19.93	-17.69	-16.44	-18.16
164	7.26	-17.93	-16.47	-19.05	-17.14	-15.81	-17.91
165	7.28	-17.26	-15.97	-18.08	-16.56	-15.30	-17.42
166	7.30	-16.76	-15.85	-17.24	-16.19	-15.16	-17.01
167	7.32	-16.80	-16.26	-16.86	-16.26	-15.51	-16.92
168	7.34	-17.03	-16.84	-16.76	-16.56	-16.05	-17.00
169	7.36	-17.18	-17.29	-16.70	-16.78	-16.56	-17.10
170	7.38	-17.28	-17.66	-16.73	-16.93	-16.94	-17.12
171	7.40	-17.04	-17.76	-16.56	-16.86	-17.20	-16.90
172	7.42	-16.63	-17.70	-16.37	-16.58	-17.19	-16.56
173	7.44	-16.15	-17.45	-16.09	-16.16	-17.02	-16.09

174	7.46	-15.68	-17.04	-15.75	-15.74	-16.70	-15.63
175	7.48	-15.21	-16.56	-15.28	-15.19	-16.14	-14.99
176	7.50	-14.78	-16.17	-14.69	-14.67	-15.64	-14.41
177	7.52	-14.51	-15.93	-14.15	-14.32	-15.35	-13.94
178	7.54	-14.32	-15.67	-13.85	-14.02	-15.10	-13.62
179	7.56	-14.57	-15.81	-14.03	-14.22	-15.32	-13.79
180	7.58	-15.15	-16.21	-14.56	-14.68	-15.71	-14.20
181	7.60	-15.83	-16.73	-15.26	-15.28	-16.22	-14.80
182	7.62	-16.50	-17.30	-16.03	-15.96	-16.80	-15.45
183	7.64	-17.12	-17.65	-16.73	-16.50	-17.19	-16.05
184	7.66	-17.62	-17.93	-17.39	-16.95	-17.43	-16.50
185	7.68	-17.93	-18.00	-17.97	-17.26	-17.48	-16.87
186	7.70	-18.20	-18.00	-18.49	-17.43	-17.35	-17.09
187	7.72	-18.26	-17.90	-18.82	-17.51	-17.17	-17.25
188	7.74	-18.13	-17.68	-18.99	-17.31	-16.74	-17.10
189	7.76	-17.97	-17.39	-19.16	-17.08	-16.31	-16.96
190	7.78	-17.58	-17.04	-19.27	-16.74	-15.86	-16.72
191	7.80	-17.37	-16.77	-19.49	-16.60	-15.66	-16.75
192	7.82	-17.20	-16.56	-19.59	-16.50	-15.51	-16.76
193	7.84	-17.33	-16.59	-19.84	-16.66	-15.63	-17.06
194	7.86	-17.66	-16.95	-19.96	-17.01	-16.05	-17.53
195	7.88	-18.14	-17.41	-20.15	-17.48	-16.52	-18.06
196	7.90	-18.63	-18.00	-20.22	-17.98	-17.10	-18.59
197	7.92	-19.14	-18.58	-20.25	-18.51	-17.63	-19.08
198	7.94	-19.51	-19.08	-20.15	-18.89	-17.98	-19.43
199	7.96	-19.87	-19.43	-19.99	-19.17	-18.35	-19.75
200	7.98	-19.91	-19.43	-19.78	-19.30	-18.42	-19.89
201	8.00	-19.71	-19.25	-19.24	-19.11	-18.34	-19.76

**NILAI REFLECTION LOSS (S_{11}) HASIL SIMULASI
SEKAM PADI DAN ECENG GONDOK**

NO	Frekuensi	RH 50	RH 60	RH 70	WH 50	WH 60	WH 70
1	4.00	-0.82	-0.83	-0.96	-0.88	-0.89	-0.90
2	4.10	-1.18	-1.18	-1.19	-1.17	-1.18	-1.18
3	4.20	-1.12	-1.14	-1.14	-1.24	-1.24	-1.25
4	4.30	-1.33	-1.33	-1.34	-1.32	-1.33	-1.33
5	4.40	-1.57	-1.57	-1.58	-1.58	-1.58	-1.58
6	4.50	-1.31	-1.43	-1.44	-1.43	-1.43	-1.42
7	4.60	-2.08	-2.11	-2.11	-2.13	-2.13	-2.11
8	4.70	-1.85	-1.86	-1.86	-1.92	-1.92	-1.91
9	4.80	-2.48	-2.49	-2.49	-2.50	-2.50	-2.48
10	4.90	-2.32	-2.32	-2.33	-2.48	-2.48	-2.45
11	5.00	-2.91	-2.91	-2.93	-2.94	-2.92	-2.91
12	5.10	-3.36	-3.36	-3.40	-3.41	-3.39	-3.38
13	5.20	-3.58	-3.60	-3.60	-3.64	-3.61	-3.58
14	5.30	-4.24	-4.26	-4.22	-4.30	-4.30	-4.25
15	5.40	-5.33	-5.33	-5.32	-5.36	-5.33	-5.32
16	5.50	-5.18	-5.22	-5.21	-5.28	-5.25	-5.23
17	5.60	-7.35	-7.38	-7.43	-7.45	-7.36	-7.41
18	5.70	-8.29	-8.10	-8.31	-8.22	-8.05	-8.15
19	5.80	-9.75	-9.66	-9.92	-9.74	-9.41	-9.70
20	5.90	-13.32	-13.65	-13.13	-13.47	-13.25	-13.48
21	6.00	-12.75	-13.03	-12.65	-12.90	-12.62	-12.75
22	6.10	-16.87	-17.14	-16.49	-17.08	-16.47	-16.71
23	6.20	-17.23	-17.42	-17.21	-17.51	-16.65	-17.56
24	6.30	-17.01	-16.95	-17.57	-17.12	-16.13	-16.58
25	6.40	-22.76	-23.18	-25.77	-23.20	-21.66	-22.52
26	6.48	-25.50	-22.09	-33.60	-26.07	-23.17	-25.46
27	6.50	-25.48	-21.11	-33.00	-25.53	-21.84	-24.97
28	6.60	-28.04	-29.90	-23.57	-27.40	-25.21	-27.85
29	6.62	-28.38	-33.01	-25.60	-28.77	-28.21	-28.40
30	6.64	-32.75	-29.92	-28.46	-30.51	-30.11	-31.14
31	6.70	-21.88	-21.93	-20.40	-21.93	-21.07	-23.74
32	6.80	-16.90	-19.28	-17.38	-16.53	-17.28	-16.41
33	6.90	-20.91	-33.58	-15.65	-21.79	-27.26	-22.51
34	7.00	-11.83	-11.55	-12.09	-12.81	-13.25	-12.54
35	7.10	-11.65	-9.63	-14.12	-12.13	-10.88	-12.01
36	7.20	-10.15	-9.14	-11.35	-9.95	-8.80	-9.82
37	7.30	-15.08	-13.13	-17.25	-14.61	-13.23	-14.65
38	7.40	-12.25	-11.86	-11.25	-11.94	-11.66	-12.66

39	7.50	-9.18	-11.31	-7.65	-9.21	-10.70	-9.75
40	7.60	-9.26	-11.05	-8.27	-9.85	-11.63	-10.10
41	7.70	-7.66	-8.20	-7.45	-8.41	-9.23	-8.41
42	7.80	-7.36	-6.78	-8.52	-7.45	-7.35	-7.39
43	7.90	-10.45	-9.01	-12.50	-10.29	-9.39	-10.22
44	8.00	-11.69	-10.44	-12.94	-11.35	-10.35	-11.34