



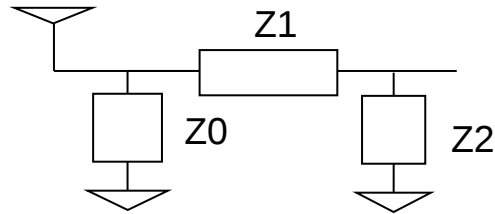
APPENDIX J

: ANTENNA SPECIFICATION

2. Test Result

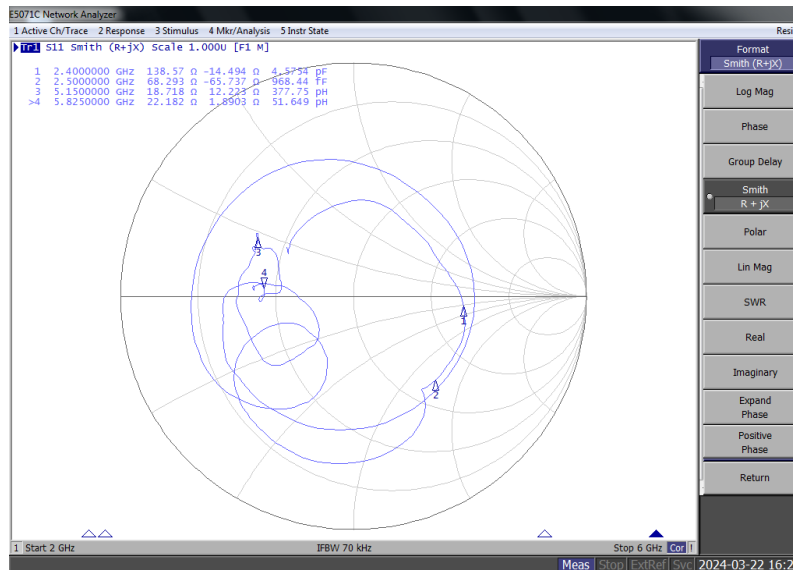
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• Antenna & matching

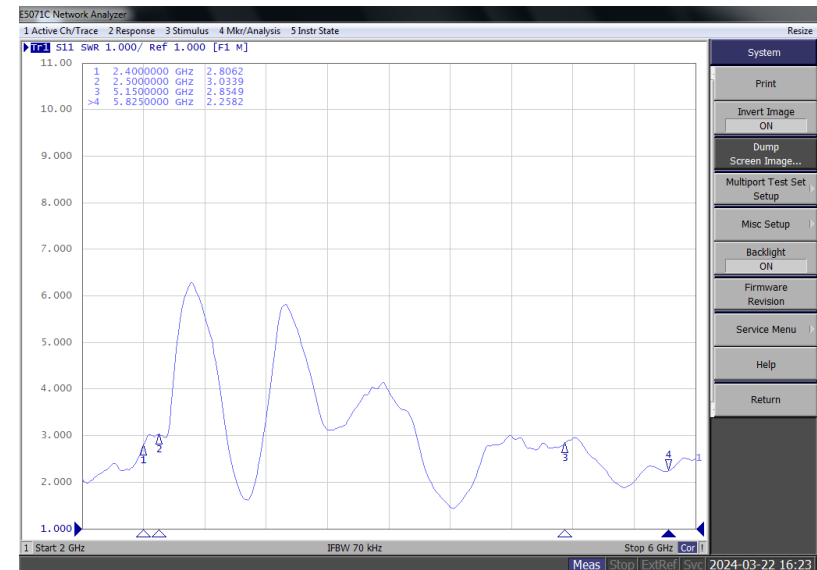


Ant	MFWD-J5-AB		
Matching value	Z0	Z1	Z2

• Smith Chart & VSWR



Smith chart



VSWR

2. Test Result

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- Passive Efficiency

	1	2	3	4	5	6	7	8	9	10	11	12
Frequency [MHz]	2400	2420	2440	2460	2480	2500	5150	5250	5350	5490	5725	5825
Efficiency [dB]	-2.73	-2.82	-2.89	-2.97	-2.84	-3.15	-3.13	-3.06	-3.67	-2.80	-2.78	-2.71
Efficiency [%]	53.3	52.3	51.4	50.4	52.0	48.4	48.6	49.4	43.0	52.5	52.7	53.6
TRG _s [dB]	-6.10	-6.17	-6.18	-6.24	-5.90	-6.10	-7.30	-6.99	-7.60	-7.13	-7.55	-7.64
Gain _{s Peak} [dB]	-0.23	0.45	1.39	1.89	2.05	1.14	-0.06	0.77	0.12	-0.45	1.00	0.87
Gain _{s Min} [dB]	-34.80	-19.90	-22.34	-21.04	-26.99	-32.71	-27.26	-32.56	-24.59	-32.29	-25.73	-26.15
TRG _p [dB]	-5.42	-5.51	-5.64	-5.74	-5.80	-6.23	-5.22	-5.32	-5.92	-4.80	-4.54	-4.40
Gain _{p Peak} [dB]	-0.85	-0.14	0.06	-0.34	-0.98	-1.35	0.08	-0.59	-0.74	0.45	0.04	0.24
Gain _{p Min} [dB]	-23.11	-24.51	-19.26	-19.15	-24.84	-22.96	-25.98	-25.14	-31.35	-28.39	-16.71	-23.14
UHRG [dB]	-6.08	-6.20	-6.34	-6.52	-6.46	-6.77	-6.40	-6.46	-6.99	-5.74	-5.61	-5.45
UHRG/TRG [%]	46.3	45.9	45.2	44.2	43.5	43.4	47.1	45.7	46.5	50.8	52.1	53.2
H-Plane	-8.60	-8.65	-8.90	-9.12	-8.63	-8.57	-10.37	-9.97	-10.29	-9.93	-11.41	-11.79
E1-Plane, AVG [dB]	-8.03	-8.47	-8.67	-9.02	-9.04	-9.50	-4.36	-3.90	-4.80	-4.32	-4.31	-4.34
E2-Plane, AVG [dB]	-4.04	-4.16	-4.22	-4.30	-3.93	-4.08	-9.34	-8.57	-9.18	-8.69	-8.02	-7.99
Peak Gain [dB]	0.73	1.23	1.88	2.22	2.25	1.25	1.22	1.07	0.26	1.41	2.24	2.07
Directivity [dB]	3.47	4.05	4.77	5.19	5.09	4.40	4.35	4.13	3.93	4.21	5.02	4.78
Minimum Gain [dB]	-10.99	-9.16	-8.83	-8.41	-7.32	-8.65	-12.58	-14.90	-15.82	-14.62	-13.53	-12.83
Test Condition	FS											
Antenna Type												
Average Efficiency	-2.96 dB		50.63 %									

2. Test Result

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- Radiation Pattern

