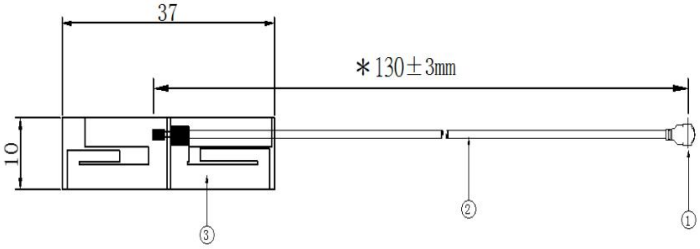


Antenna Specification

Antenna Material	FPC
Antenna Information	
Frequency range	2400 ~ 2500 MHz 4900 ~ 5900 MHz
VSWR	≤ 10
Isolation	≤ 20
Gain	$5 \pm 0.5 \text{ dB}$
Efficiency	$> 60\%$
Impedance	50 Ohm Nominal
Return Loss	-10 dB Max
Radiation	Omni-directional
Manufacturer	Dongguan Chuangjie Electronics Co., Ltd
Address	No. 6 Qilin East Road, Daning, Humen Town, Dongguan City

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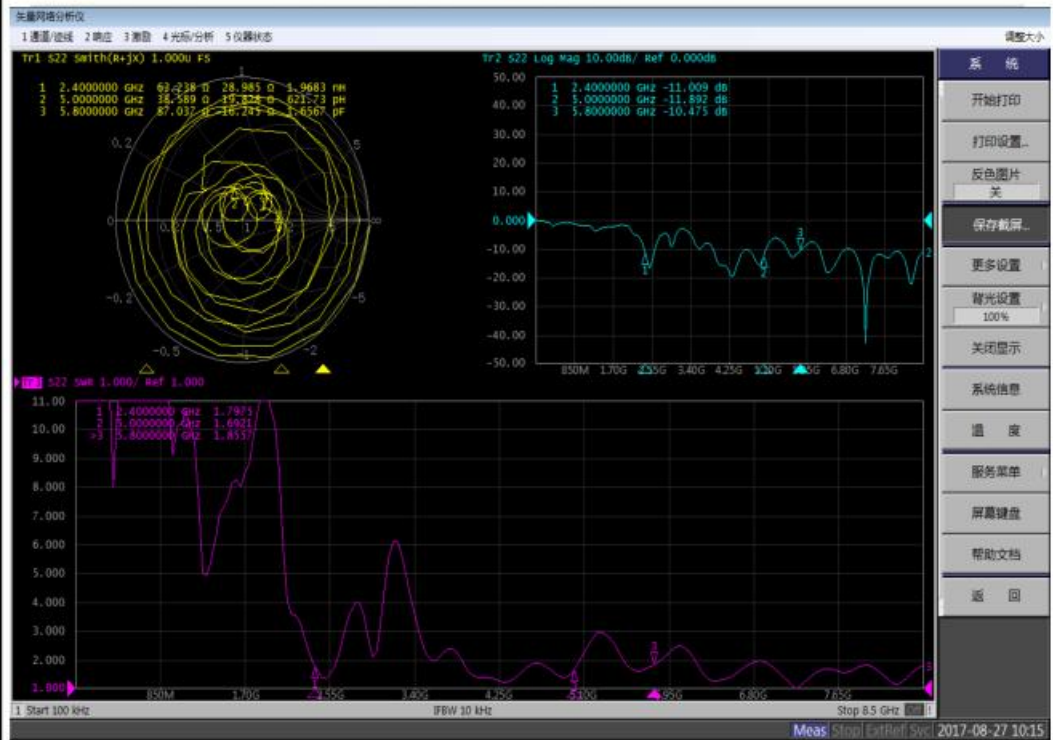
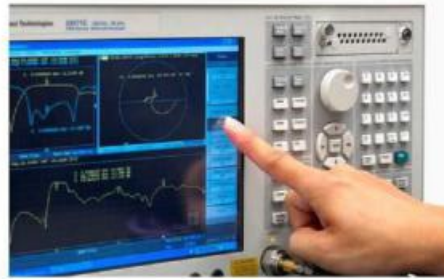
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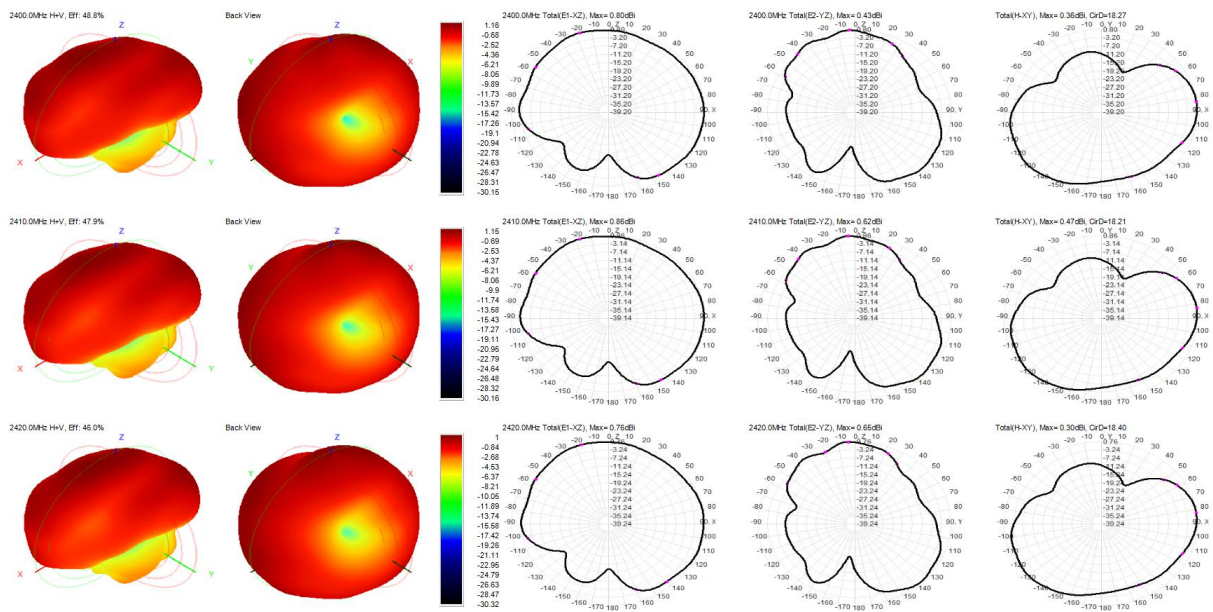
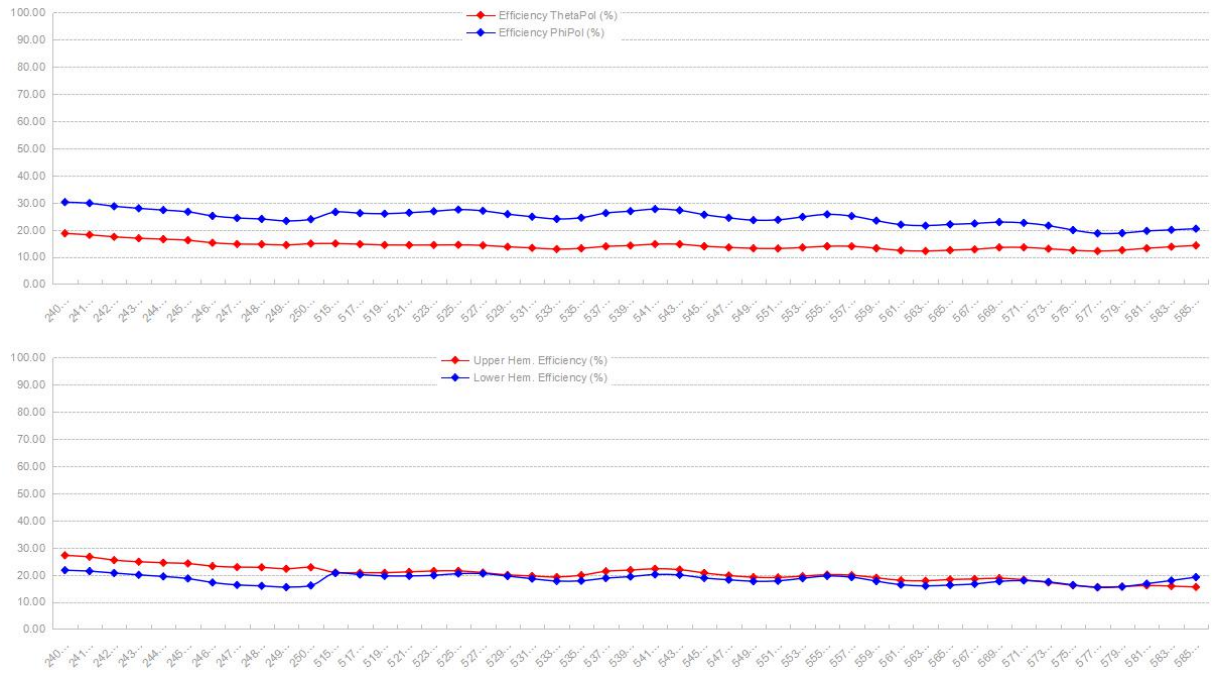
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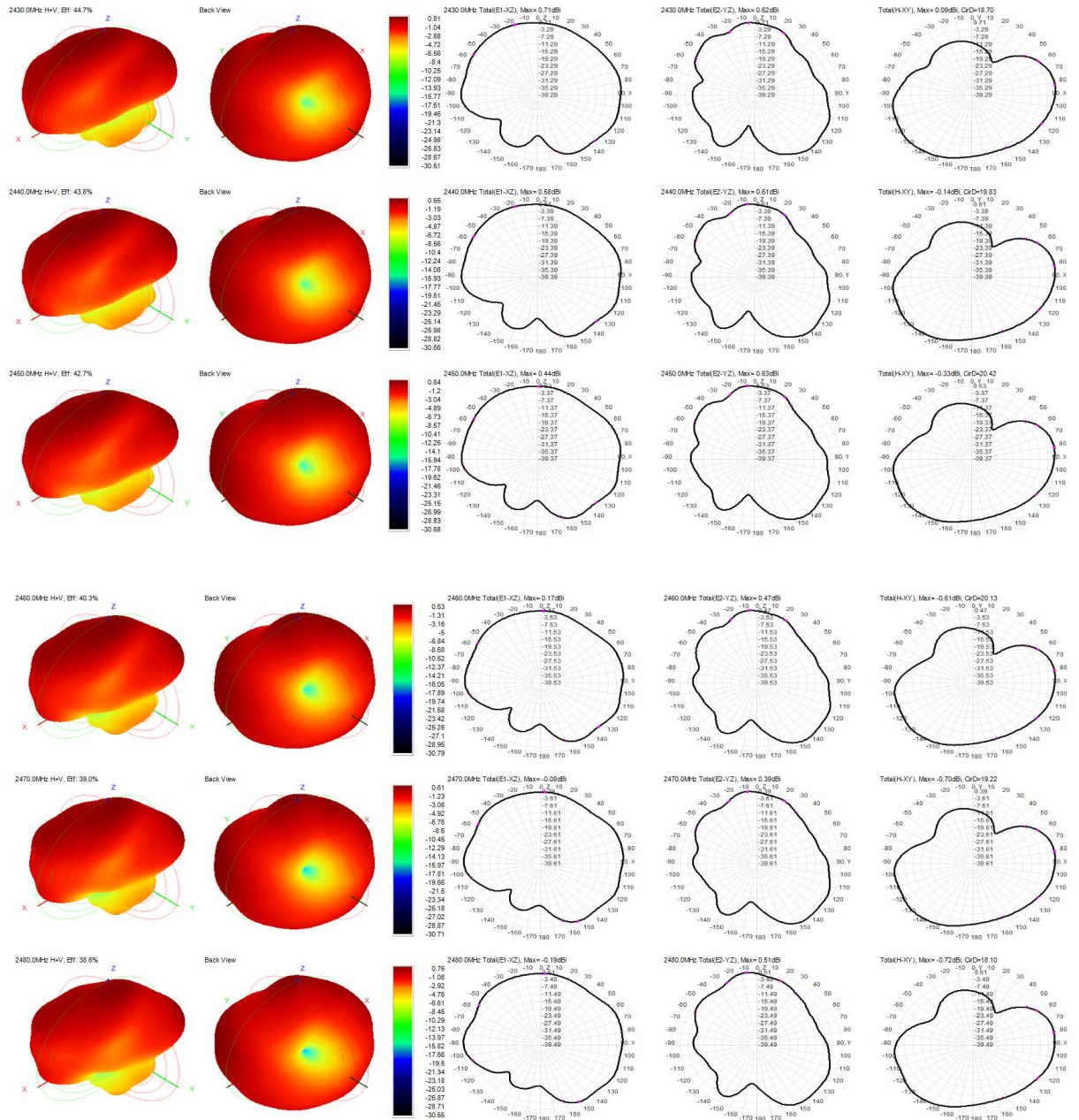
Agilent E5071C

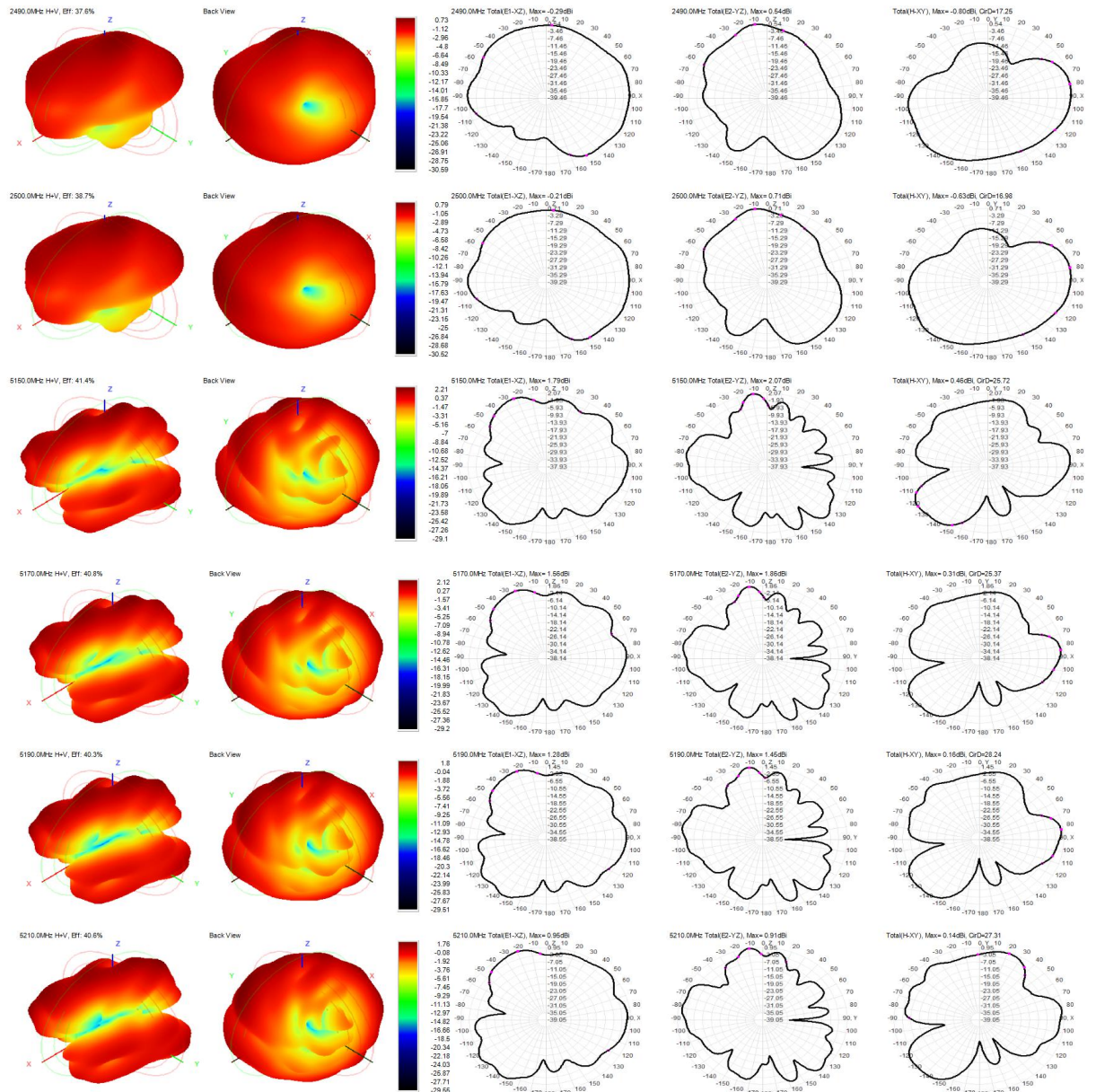


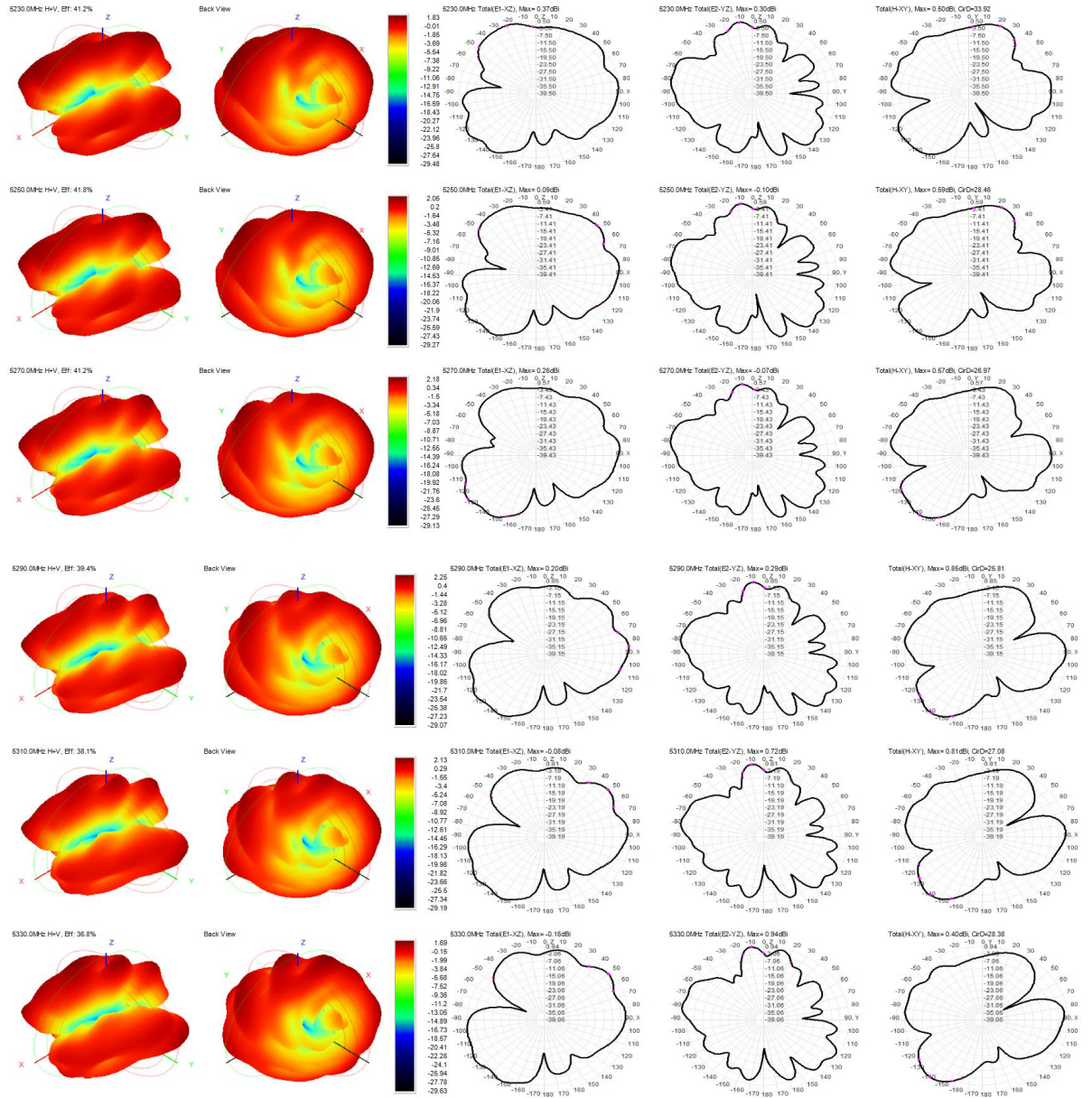
科信无线																									
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5150.0	5170.0	5190.0	5210.0	5230.0	5250.0	5270.0	5290.0	5310.0	5330.0	5350.0	5370.0	5390.0	5410.0
Efficiency (dB)	-3.12	-3.19	-3.37	-3.49	-3.59	-3.69	-3.95	-4.09	-4.13	-4.25	-4.12	-3.83	-3.90	-3.95	-3.91	-3.86	-3.78	-3.85	-4.04	-4.19	-4.34	-4.25	-3.98	-3.87	-3.74
Gain (dB)	1.16	1.15	1.00	0.81	0.65	0.64	0.53	0.61	0.76	0.73	0.79	2.21	2.12	1.80	1.76	1.83	2.05	2.18	2.25	2.13	1.69	1.74	1.87	1.83	2.23
Efficiency (%)	48.80	47.92	45.99	44.73	43.76	42.75	40.27	39.03	38.61	37.61	38.72	41.13	40.77	40.28	40.62	41.15	41.84	41.21	39.42	38.08	36.82	37.55	40.01	40.98	42.30
Directivity (dB)	4.28	4.35	4.37	4.30	4.24	4.33	4.48	4.69	4.90	4.97	4.91	6.04	6.01	5.75	5.67	5.69	5.83	6.03	6.29	6.32	6.03	6.00	5.85	5.70	5.97
Peak Gain Position (Theta)	117.00	118.00	118.00	119.00	7.00	5.00	57.00	59.00	60.00	61.00	62.00	9.00	10.00	11.00	40.00	71.00	71.00	74.00	77.00	78.00	79.00	18.00	112.00	118.00	
Peak Gain Position (Phi)	312.00	312.00	312.00	311.00	33.00	60.00	158.00	157.00	157.00	157.00	156.00	115.00	122.00	128.00	165.00	322.00	322.00	319.00	317.00	317.00	316.00	330.00	134.00	133.00	
Efficiency ThetaPol (%)	18.64	18.14	17.38	16.85	16.53	16.13	15.18	14.72	14.64	14.37	14.88	14.91	14.69	14.38	14.35	14.37	14.43	14.24	13.71	13.30	12.86	13.14	13.87	14.15	14.69
Efficiency PhiPol (%)	30.16	29.78	28.62	27.88	27.24	26.61	25.09	24.31	23.97	23.25	23.84	26.52	26.08	25.90	26.27	26.78	27.41	26.98	25.72	24.78	23.96	24.42	26.14	26.83	27.61
Upper Hem. Efficiency (%)	21.74	26.59	25.37	24.79	24.30	24.14	23.16	22.80	22.72	22.19	22.70	20.81	20.73	20.71	21.06	21.39	21.43	20.78	19.91	19.54	19.16	19.80	21.25	21.69	22.20
Lower Hem. Efficiency (%)	21.65	21.31	20.32	19.95	19.36	18.61	17.12	16.23	15.79	15.22	16.02	20.62	20.24	20.34	19.56	19.56	19.77	20.42	20.43	19.51	18.54	17.66	17.76	18.26	19.09
1900(H)频段	18.27	18.21	18.40	18.76	19.83	20.43	21.13	19.22	18.18	17.25	16.98	25.72	25.37	28.24	27.31	33.92	28.46	26.97	25.81	27.08	28.38	30.00	29.33	28.68	24.57
Gain (avg) (dBi)	200.0	188.0	188.0	186.0	184.0	184.0	185.0	204.0	203.0	202.0	200.0	32.20	34.00	37.00	40.44	109.00	42.00	33.00	28.00	28.00	63.00	24.00	59.00	58.00	
E1(OZ)前后比	3.51	3.58	3.51	3.48	3.31	3.18	3.10	2.97	3.01	3.19	3.36	4.21	3.67	3.27	2.96	2.15	1.25	0.84	0.50	0.11	0.21	0.91	1.35</		

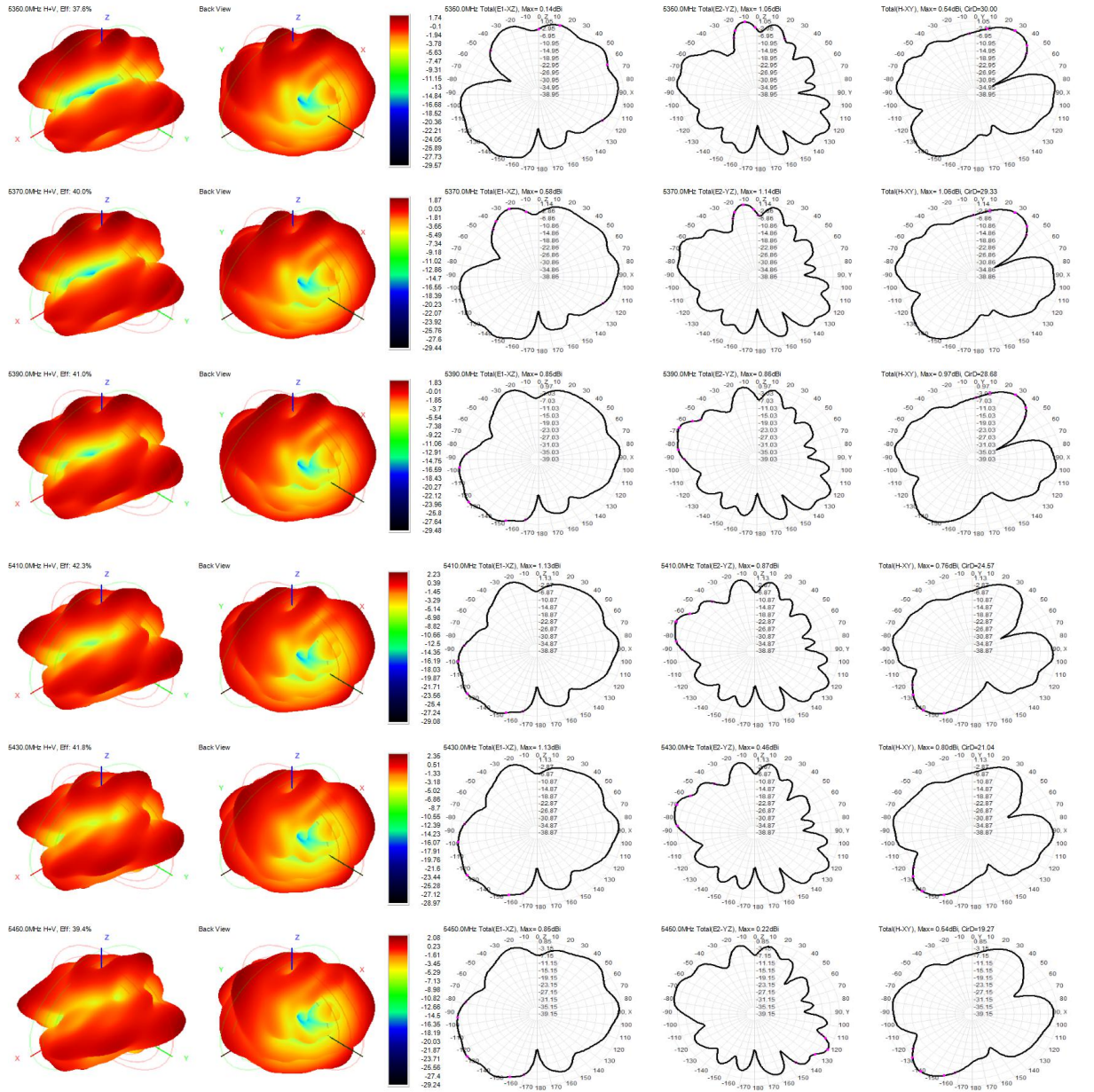
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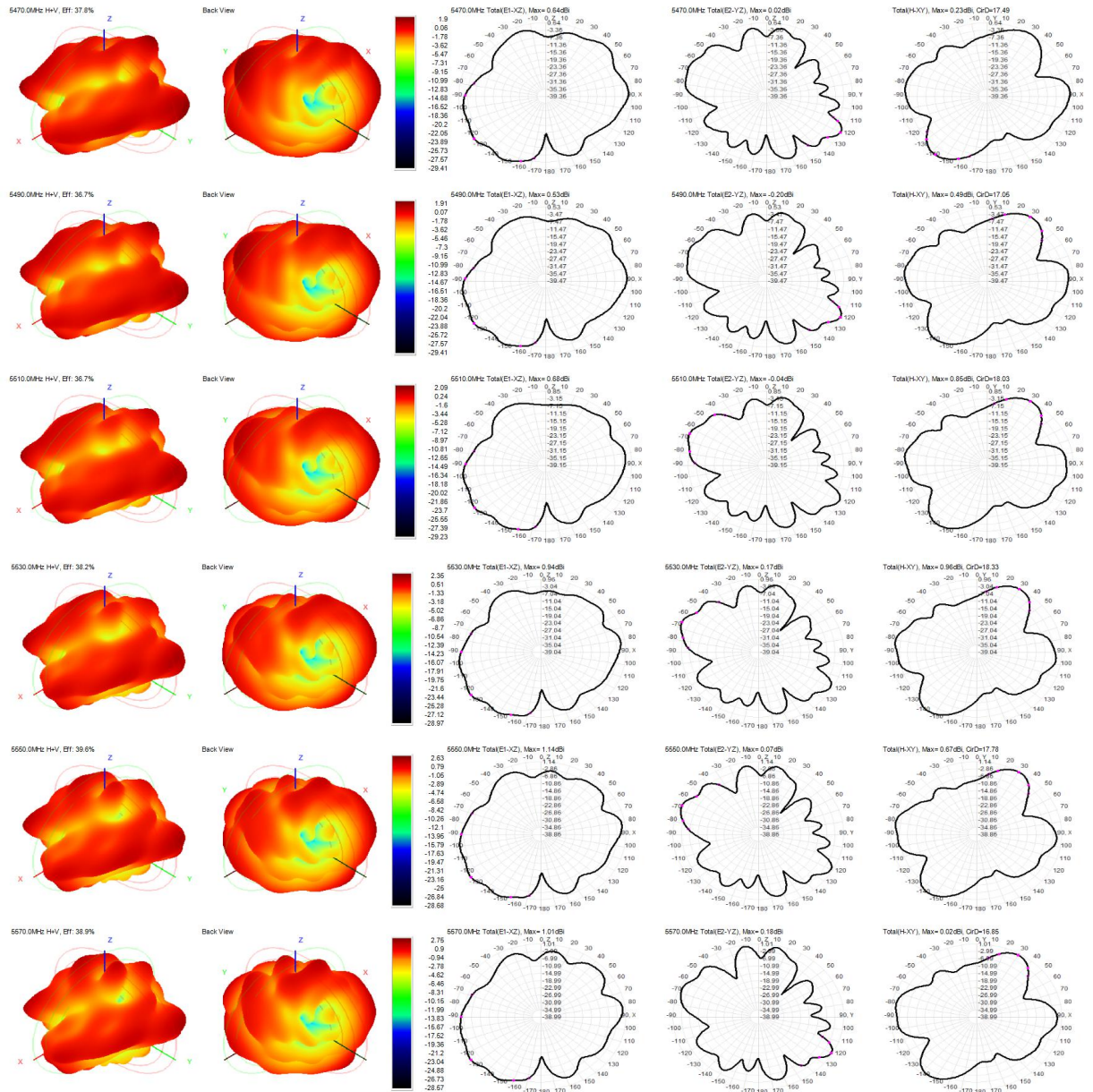


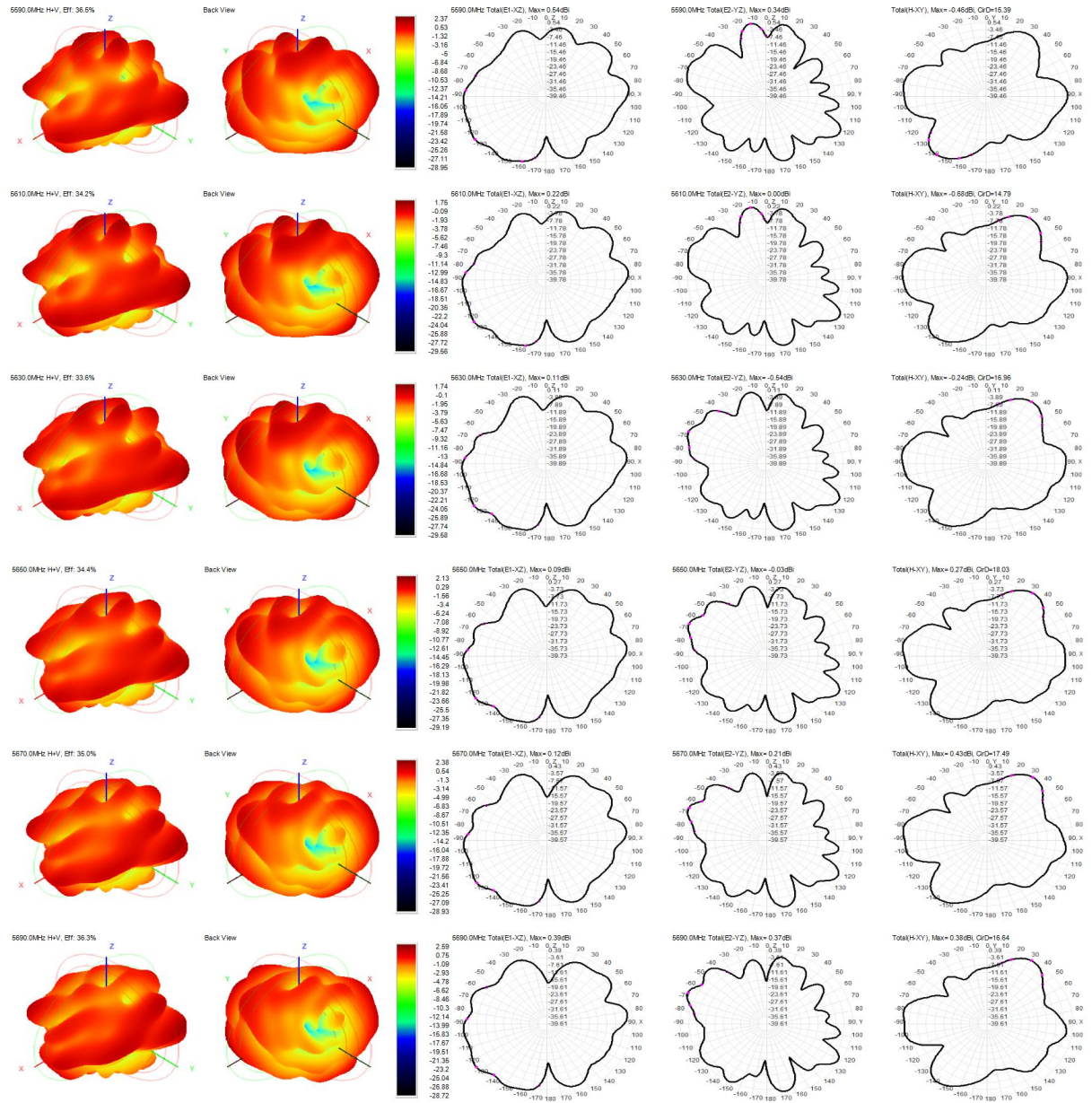


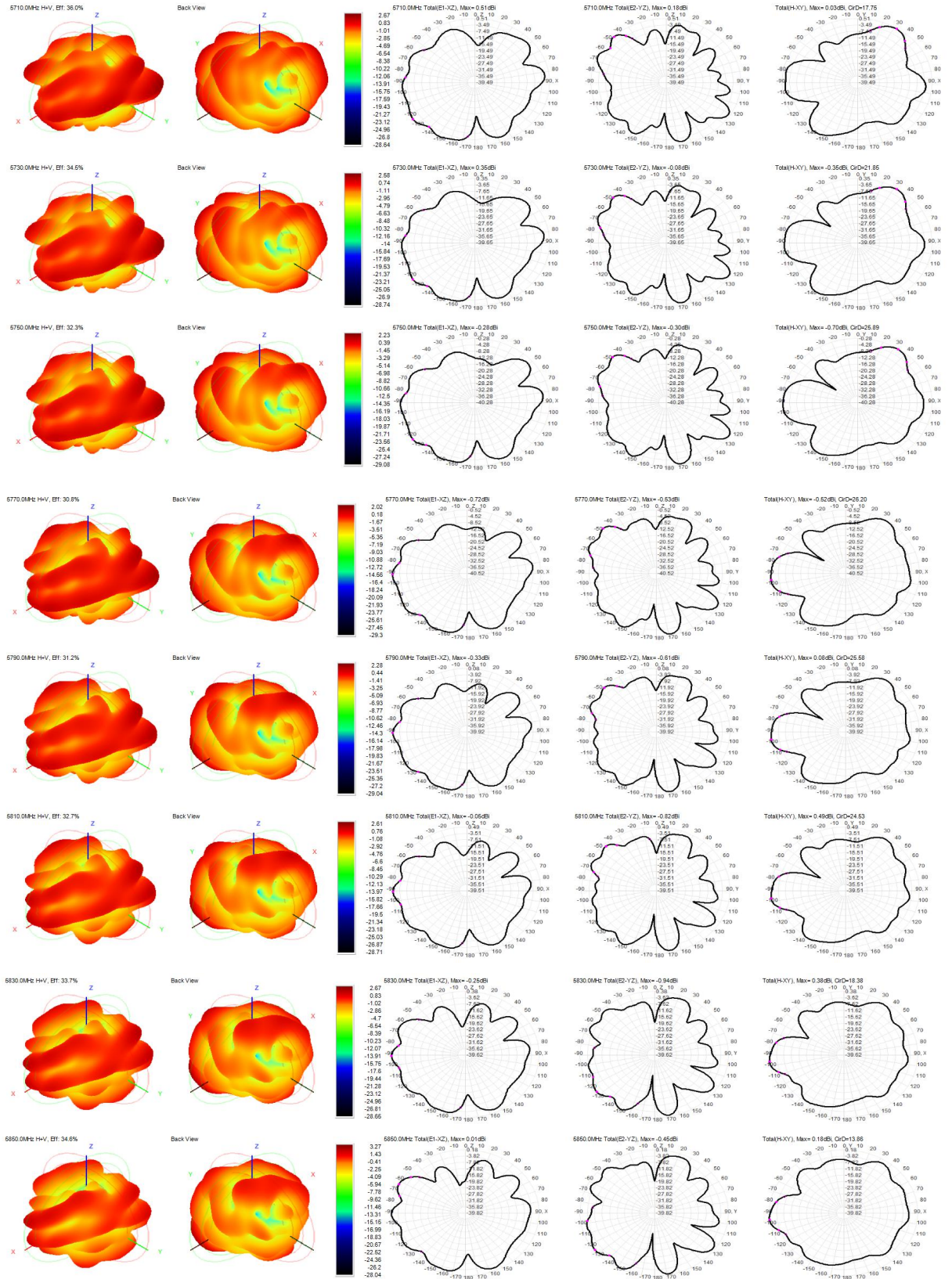












3. EUT Photo and test setup

Please see the appendix file 'Antenna Test Setup Photos'.

----- The End -----