

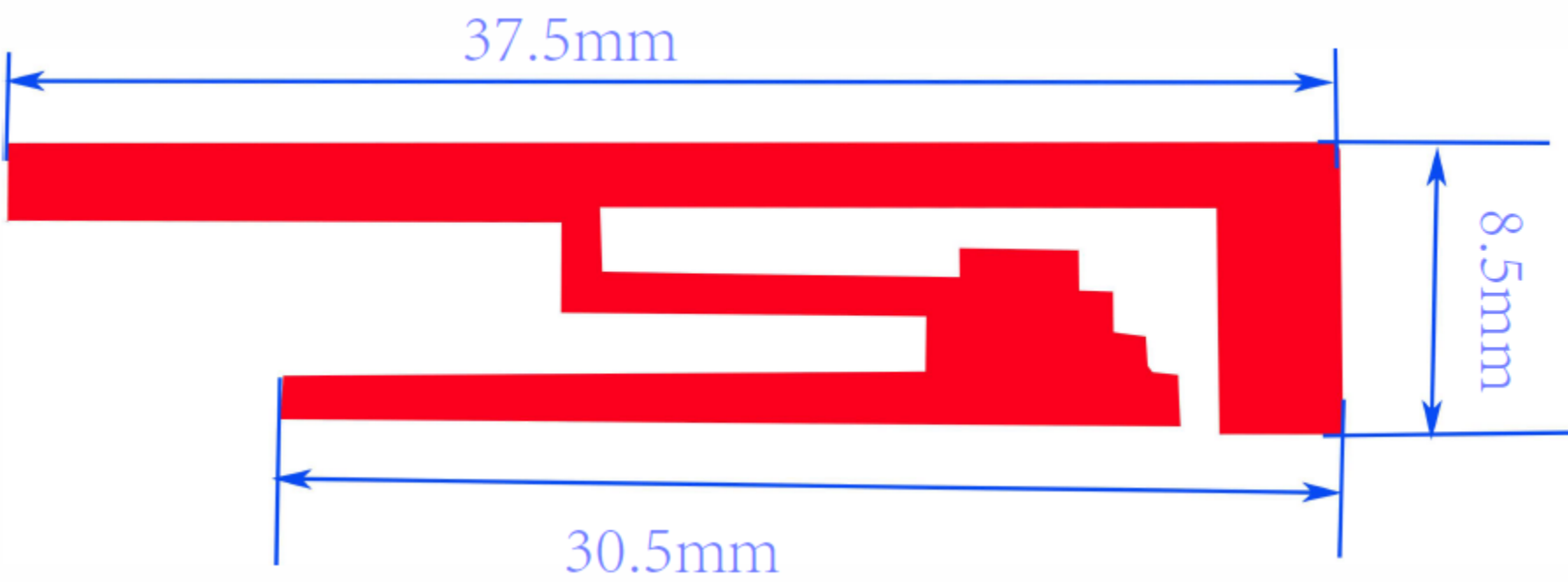
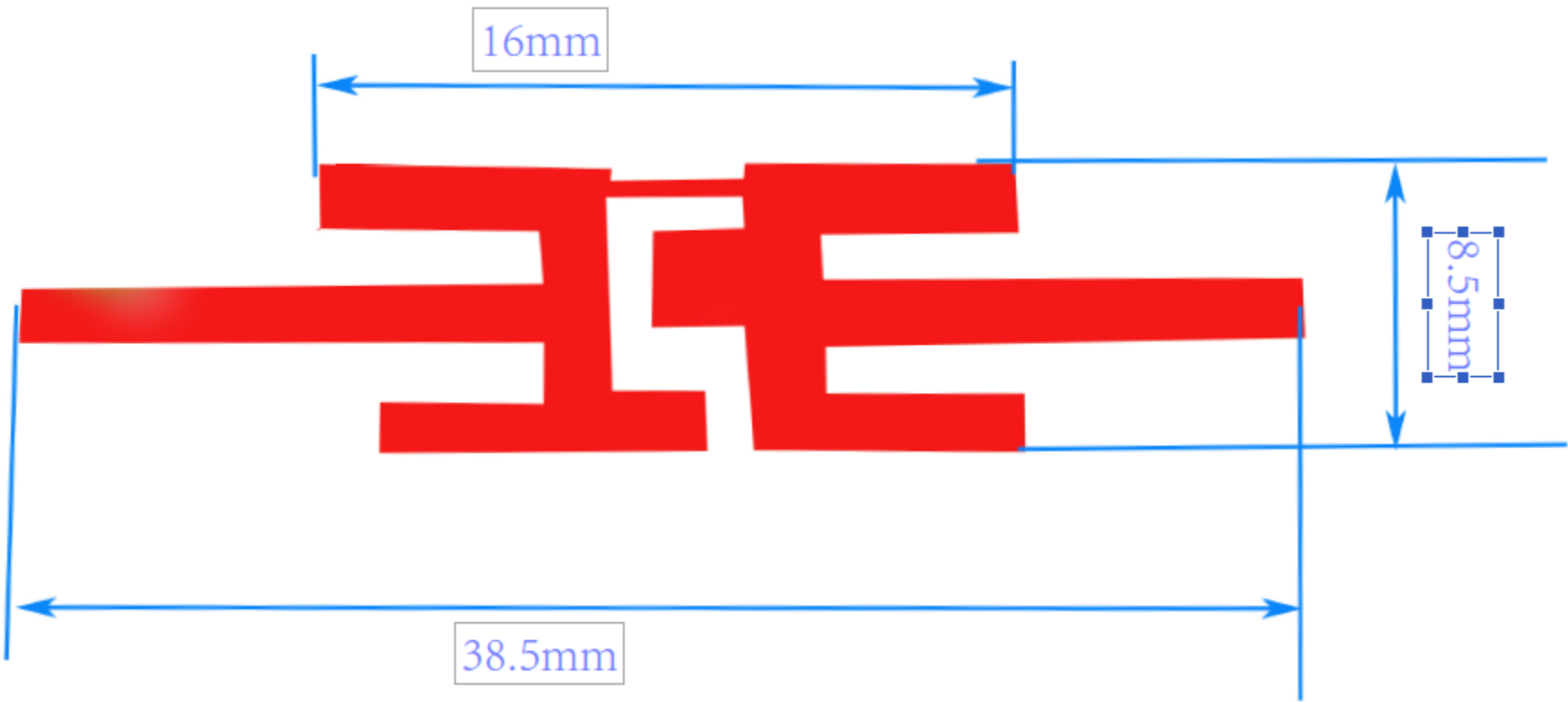
Product specification

1. Technical indicators of products

Frequency Range (MHz)	2400~2500MHz, 5150~5850MHz
Band Width (MHz)	100
Impedance (Ω)	50
Manufacturer:	Shenzhen iBoard Technology Co., Ltd.
Address:	1001, Block A, Tanglangcheng Square (West Zone), Fuguang Community, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China
Peak Gain (dBi)	1.78
Polarization	Linear Vertical
Antenna Material	PCB
Operating Temp (℃)	—20~65
Storage Temp (℃)	—30~75

2. Product picture

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)	Efficiency (dB)	Max (dBm)	Theta of Max	Phi of Max	Min (dBm)	Theta of Min	Phi of Min	AVG (dBm)	Max/Min (dB)	Max/AVG (dB)	Min/AVG (dB)
1	2400.0	2400.00	2.99	7.19	38.1%	-4.20	2.99	6000	15000	-23.50	9000	6000	-4.14	26.50	7.13	-19.36
2	2410.0	2410.00	3.15	7.18	39.5%	-4.04	3.15	6000	15000	-24.18	9000	13680	-3.97	27.33	7.12	-20.21
3	2420.0	2420.00	3.09	7.09	39.8%	-4.01	3.09	6000	15000	-19.95	9000	13680	-3.95	23.04	7.03	-16.01
4	2430.0	2430.00	2.53	6.85	37.0%	-4.32	2.53	6000	15000	-18.96	10500	1500	-4.31	21.49	6.83	-14.66
5	2440.0	2440.00	2.29	6.62	36.9%	-4.33	2.29	6000	15000	-17.02	6000	0	-4.38	19.30	6.67	-12.63
6	2450.0	2450.00	1.94	6.28	36.8%	-4.34	1.94	6000	15000	-16.32	16500	1680	-4.40	18.26	6.34	-11.91
7	2460.0	2460.00	1.86	5.92	39.3%	-4.06	1.86	6000	15000	-23.54	6000	3000	-4.09	25.40	5.95	-19.45
8	2470.0	2470.00	2.12	5.76	43.3%	-3.63	2.12	4500	16500	-27.87	6000	3000	-3.61	29.99	5.74	-24.25
9	2480.0	2480.00	2.31	5.60	46.8%	-3.30	2.31	4500	180	-20.53	6000	3000	-3.21	22.84	5.52	-17.32
10	2490.0	2490.00	2.20	5.25	49.5%	-3.05	2.20	4500	180	-20.40	9000	4500	-2.89	22.60	5.09	-17.51
11	2500.0	2500.00	2.09	5.05	50.5%	-2.97	2.09	9000	3180	-20.75	9000	4500	-2.72	22.84	4.81	-18.03
12	5100.0	5100.00	1.76	7.91	24.2%	-6.16	1.76	13500	10680	-22.76	1500	6000	-5.50	24.52	7.25	-17.27
13	5150.0	5150.00	2.26	7.32	31.2%	-5.06	2.26	13500	10680	-22.36	7500	3000	-4.47	24.62	6.72	-17.89
14	5200.0	5200.00	2.22	6.97	33.5%	-4.75	2.22	13500	10680	-26.38	9000	7500	-4.60	28.60	6.82	-21.78
15	5250.0	5250.00	3.28	7.17	40.8%	-3.89	3.28	13500	10680	-25.27	9000	7500	-3.96	28.55	7.24	-21.31
16	5300.0	5300.00	3.49	7.08	43.8%	-3.59	3.49	13500	10680	-24.62	1500	9000	-3.89	28.11	7.38	-20.73
17	5350.0	5350.00	4.26	7.71	45.2%	-3.45	4.26	13500	9180	-17.32	1500	3000	-3.65	21.59	7.91	-13.67
18	5400.0	5400.00	4.27	7.35	49.2%	-3.08	4.27	13500	9180	-20.67	4500	1500	-3.13	24.94	7.40	-17.54
19	5450.0	5450.00	3.99	7.89	40.7%	-3.90	3.99	13500	9180	-20.90	1500	4500	-3.89	24.89	7.88	-17.01
20	5500.0	5500.00	4.93	8.00	49.3%	-3.07	4.93	13500	9180	-15.90	4500	0	-3.11	20.83	8.04	-12.79
21	5550.0	5550.00	2.48	7.18	33.8%	-4.70	2.48	13500	9180	-25.73	9000	3000	-4.83	28.21	7.30	-20.90
22	5600.0	5600.00	0.53	6.35	26.2%	-5.82	0.53	9000	3180	-21.87	7500	4500	-5.90	22.40	6.43	-15.97
23	5650.0	5650.00	1.86	6.28	36.1%	-4.42	1.86	10500	13500	-18.47	4500	16500	-4.39	20.33	6.25	-14.08
24	5700.0	5700.00	2.15	6.81	34.2%	-4.66	2.15	12000	180	-21.13	10500	3000	-4.91	23.28	7.06	-16.22
25	5750.0	5750.00	4.12	6.91	52.5%	-2.80	4.12	13500	16500	-20.17	10500	4500	-3.05	24.29	7.17	-17.12
26	5800.0	5800.00	5.15	7.37	60.0%	-2.22	5.15	12000	15000	-18.41	3000	15180	-2.29	23.56	7.44	-16.13
27	5850.0	5850.00	5.44	7.13	67.7%	-1.69	5.44	12000	15000	-18.28	6000	3180	-1.89	23.71	7.33	-16.39
28	5900.0	5900.00	4.99	6.56	69.6%	-1.57	4.99	12000	13500	-16.51	15000	3000	-1.99	21.49	6.98	-14.51

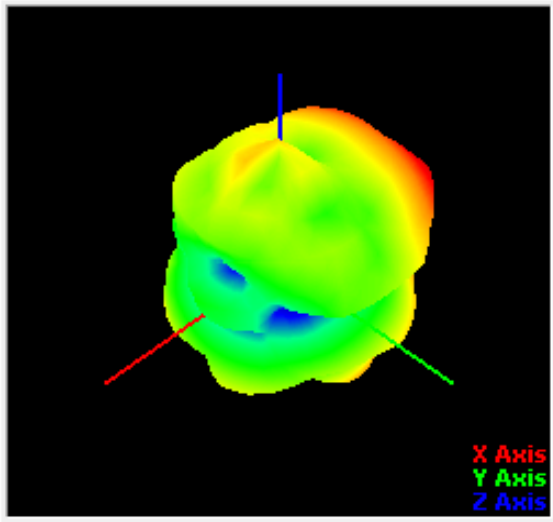
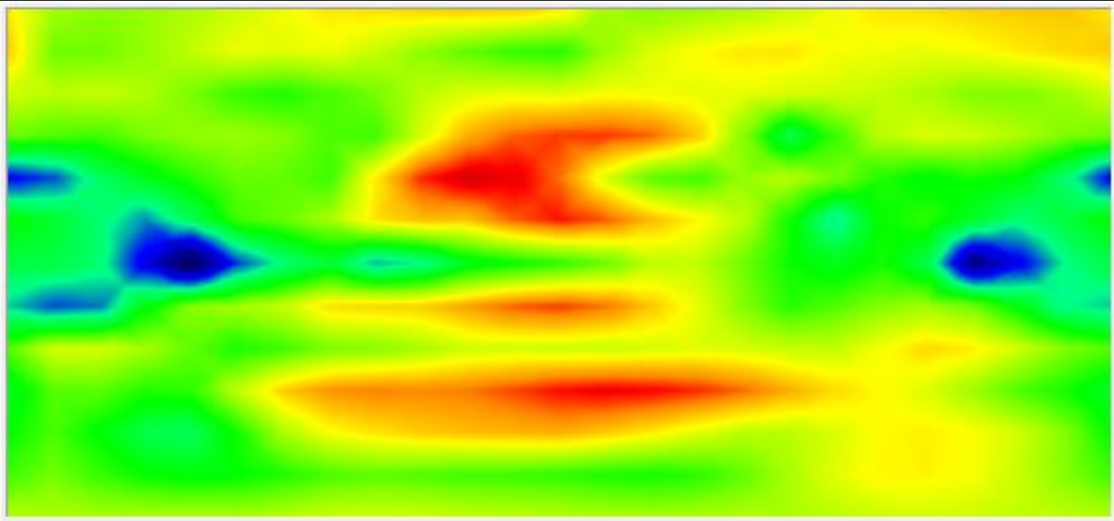


Passive - Freq2400.00MHZ

H+V Total (15° Step)		0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360
	0	-2.45	-5.34	-5.91	-5.56	-5.03	-4.25	-3.34	-2.43	-2.28	-1.95	-1.72	-1.67	--	--	--	--	--	--	--	--	--	--	--	--	--
	15	-1.72	-6.54	-6.54	-5.67	-4.56	-3.43	-3.72	-3.46	-4.39	-5.79	-6.94	-7.88	-8.15	-5.59	-3.88	-2.97	-2.49	-2.46	-3.20	-3.38	-3.52	-3.17	-2.61	-2.14	--
	30	-4.18	-4.73	-4.40	-5.00	-6.32	-7.84	-8.38	-7.36	-6.40	-4.74	-3.86	-3.57	-3.81	-3.22	-3.37	-3.57	-3.55	-3.98	-4.12	-4.47	-5.18	-6.16	-6.23	-5.47	--
	45	-6.58	-7.24	-7.53	-6.35	-5.70	-5.51	-6.06	-7.39	-7.61	-4.03	-1.04	0.55	1.12	1.21	0.53	-1.61	-5.96	-11.30	-7.79	-4.75	-3.88	-4.16	-5.07	-6.17	--
	60	-17.35	-15.83	-11.82	-9.77	-8.07	-6.69	-6.88	-7.68	-2.62	1.42	2.99	2.49	0.34	-3.99	-7.04	-7.59	-5.62	-4.86	-6.24	-8.32	-9.34	-8.56	-9.20	-12.14	--
	75	-8.96	-10.30	-12.21	-14.77	-11.57	-7.64	-6.72	-5.22	-2.35	-1.39	-1.52	0.57	1.73	0.72	-1.30	-2.83	-4.61	-8.57	-13.53	-8.91	-8.01	-10.26	-12.40	-10.66	--
	90	-10.97	-10.95	-12.28	-17.92	-23.50	-15.88	-12.40	-10.46	-14.00	-12.85	-9.78	-8.74	-7.84	-6.63	-4.67	-4.47	-6.55	-8.75	-9.78	-8.54	-11.00	-21.25	-17.53	-12.99	--
	105	-13.76	-15.86	-15.19	-9.38	-5.89	-5.26	-4.33	-2.18	-1.94	-1.82	-0.61	0.65	1.14	0.28	-1.62	-3.55	-6.06	-8.09	-7.21	-6.01	-5.35	-6.48	-9.34	-12.97	--
	120	-7.20	-4.01	-4.04	-5.25	-6.88	-8.47	-7.64	-6.29	-6.03	-5.17	-4.24	-4.17	-4.31	-4.45	-4.10	-3.82	-4.01	-4.42	-4.50	-3.16	-2.11	-2.57	-4.19	-6.11	--
	135	-10.17	-7.14	-7.02	-8.29	-8.04	-4.52	-1.74	-0.31	0.05	-0.09	0.17	0.98	1.88	2.28	2.04	1.46	0.43	-0.98	-2.19	-2.93	-3.89	-5.47	-7.31	-8.61	--
	150	-9.02	-7.41	-9.15	-11.22	-11.59	-8.63	-5.11	-3.16	-2.41	-1.80	-1.47	-1.24	-1.03	-1.74	-2.63	-3.78	-4.70	-4.73	-3.92	-2.99	-2.67	-3.10	-4.19	-6.10	--
	165	-7.67	-6.45	-7.79	-8.91	-9.42	-9.12	-8.35	-7.38	-7.00	-7.25	-7.69	-7.74	-7.99	-8.47	-8.64	-8.18	-6.91	-5.14	-3.74	-2.84	-2.79	-3.20	-4.36	-6.07	--
	180	-4.85	-5.00	-5.18	-5.07	-5.01	-5.10	-4.70	-4.31	-4.14	-4.26	-4.52	-4.64	--	--	--	--	--	--	--	--	--	--	--	--	--

H (15° Step)		0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360
	0	-3.31	-6.03	-9.37	-14.31	-21.32	-15.65	-9.50	-6.26	-4.21	-2.74	-1.93	-1.70	--	--	--	--	--	--	--	--	--	--	--	--	--
	15	-3.47	-7.58	-9.17	-10.37	-12.52	-17.38	-24.44	-16.91	-12.23	-9.73	-8.77	-9.17	-11.57	-16.30	-18.54	-12.91	-8.62	-6.12	-4.69	-4.19	-3.83	-3.40	-3.05	-3.11	--
	30	-12.61	-16.23	-13.69	-12.93	-12.90	-13.33	-14.26	-15.75	-15.88	-11.57	-8.26	-5.85	-5.05	-4.43	-4.53	-4.89	-5.04	-6.74	-9.99	-15.58	-24.11	-20.52	-18.84	-14.62	--
	45	-8.04	-12.43	-9.51	-7.01	-6.51	-7.13	-8.70	-11.65	-10.95	-4.76	-1.19	0.28	0.17	-0.75	-2.22	-4.48	-7.72	-13.05	-20.30	-29.97	-20.25	-15.51	-12.48	-9.69	--
	60	-18.88	-16.61	-16.26	-15.37	-13.37	-12.19	-14.04	-10.53	-2.98	0.60	1.52	0.37	-2.50	-7.79	-8.95	-7.97	-6.18	-5.50	-7.14	-9.88	-14.36	-24.01	-25.18	-22.70	--
	75	-12.38	-14.99	-15.19	-15.96	-12.56	-9.97	-10.15	-6.37	-2.39	-2.00	-3.56	-0.79	1.33	0.63	-1.52	-3.65	-5.20	-8.72	-16.72	-12.92	-12.91	-23.14	-18.51	-13.81	--
	90	-13.22	-12.16	-14.71	-21.86	-24.64	-18.84	-25.57	-16.49	-14.31	-20.72	-24.01	-22.66	-15.89	-8.45	-5.00	-4.51	-8.08	-18.03	-13.28	-9.92	-12.36	-26.35	-19.17	-13.86	--
	105	-17.08	-18.98	-15.73	-9.41	-5.99	-6.14	-8.60	-6.50	-4.14	-2.71	-1.22	0.01	0.47	-0.25	-1.85	-3.97	-6.71	-8.87	-7.81	-6.53	-6.29	-8.65	-12.96	-16.51	--
	120	-7.69	-7.02	-8.40	-9.95	-11.44	-10.92	-8.57	-6.49	-6.26	-6.14	-5.17	-4.96	-5.61	-6.45	-5.66	-4.53	-4.23	-4.60	-4.60	-3.20	-2.33	-3.01	-4.66	-6.47	--
	135	-15.32	-16.46	-18.34	-18.69	-16.23	-12.29	-8.84	-6.94	-6.06	-4.88	-2.96	-0.96	0.60	1.47	1.70	1.27	0.32	-1.07	-2.36	-3.18	-4.52	-6.85	-10.19	-13.31	--
	150	-13.95	-23.05	-24.41	-22.01	-22.59	-23.04	-16.45	-12.59	-9.76	-6.93	-4.92	-3.40	-2.31	-2.66	-3.22	-4.26	-5.50	-6.26	-6.20	-6.14	-6.79	-8.55	-10.85	-12.83	--
	165	-8.66	-11.23	-9.51	-9.12	-9.59	-11.14	-14.11	-19.29	-35.52	-17.81	-12.72	-10.03	-9.12	-8.87	-8.72	-8.49	-8.39	-8.50	-9.66	-13.90	-25.79	-21.46	-13.50	-10.22	--
	180	-5.52	-6.49	-5.46	-5.16	-5.62	-7.22	-9.69	-14.47	-27.81	-14.95	-9.70	-6.83	--	--	--	--	--	--	--	--	--	--	--	--	--

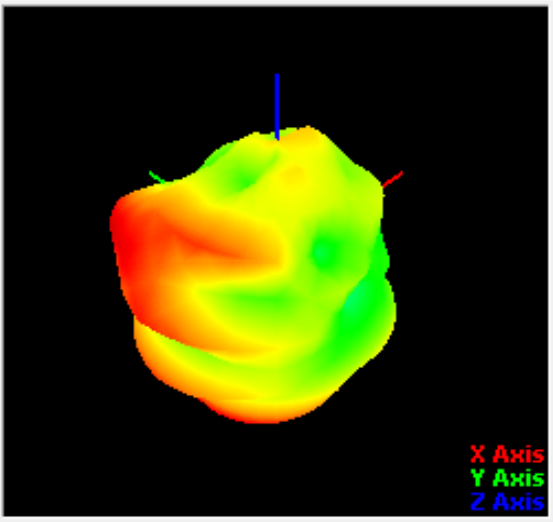
V (15° Step)		0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360
	0	-9.89	-13.72	-8.52	-6.19	-5.13	-4.58	-4.55	-4.76	-6.74	-9.78	-14.99	-23.04	--	--	--	--	--	--	--	--	--	--	--	--	--
	15	-6.52	-13.24	-9.97	-7.47	-5.32	-3.61	-3.75	-3.66	-5.17	-8.04	-11.56	-13.77	-10.79	-5.98	-4.03	-3.44	-3.71	-4.90	-8.56	-11.09	-15.09	-16.14	-12.72	-9.11	--
	30	-4.85	-5.05	-4.94	-5.76	-7.40	-9.29	-9.67	-8.04	-6.92	-5.75	-5.81	-7.45	-9.84	-9.35	-9.65	-9.40	-8.92	-7.26	-5.42	-4.82	-5.23	-6.32	-6.47	-6.03	--
	45	-12.01	-8.81	-11.89	-14.81	-13.44	-10.58	-9.48	-9.42	-10.31	-12.17	-15.75	-11.76	-5.96	-3.18	-2.75	-4.77	-10.71	-16.09	-8.05	-4.76	-3.98	-4.50	-5.94	-8.73	--
	60	-22.64	-23.69	-13.75	-11.17	-9.59	-8.12	-7.81	-10.86	-13.70	-6.19	-2.42	-1.63	-2.85	-6.34	-11.52	-18.39	-14.84	-13.44	-13.54	-13.50	-10.98	-8.69	-9.31	-12.54	--
	75	-11.59	-12.11	-15.25	-20.98	-18.47	-11.45	-9.34	-11.55	-22.96	-10.25	-5.78	-5.13	-8.91	-16.25	-14.30	-10.50	-13.58	-23.35	-16.37	-11.11	-9.71	-10.49	-13.63	-13.53	--
	90	-14.91	-17.09	-15.97	-20.16	-29.86	-18.95	-12.62	-11.71	-25.62	-13.62	-9.95	-8.92	-8.58	-11.29	-15.99	-24.86	-11.84	-9.29	-12.36	-14.19	-16.71	-22.85	-22.55	-20.37	--
	105	-16.49	-18.76	-24.54	-31.54	-22.28	-12.62	-6.36	-4.19	-5.93	-9.14	-9.42	-7.94	-7.31	-9.16	-14.56	-13.90	-14.61	-15.91	-16.04	-15.47	-12.48	-10.55	-11.81	-15.51	--
	120	-16.98	-7.02	-6.02	-7.04	-8.76	-12.12	-14.77	-19.72	-18.89	-12.19	-11.40	-11.98	-10.18	-8.78	-9.32	-12.08	-17.05	-18.47	-20.67	-23.19	-15.24	-12.76	-14.07	-17.12	--
	135	-11.76	-7.68	-7.36	-8.71	-8.75	-5.31	-2.69	-1.37	-1.16	-1.85	-2.73	-3.47	-4.05	-5.43	-9.28	-12.26	-15.48	-17.69	-16.41	-15.53	-12.62	-11.12	-10.44	-10.41	--
	150	-10.70	-7.53	-9.28	-11.60	-11.95	-8.79	-5.44	-3.69	-3.30	-3.40	-4.08	-5.30	-6.99	-8.92	-11.57	-13.51	-12.42	-9.98	-7.80	-5.87	-4.79	-4.56	-5.24	-7.14	--
	165	-14.56	-8.21	-12.66	-22.05	-23.50	-13.43	-9.68	-7.67	-7.01	-7.65	-9.32	-11.61	-14.43	-19.01	-26.02	-19.77	-12.29	-7.83	-5.03	-3.19	-2.82	-3.27	-4.92	-8.18	--
	180	-13.26	-10.36	-17.25	-21.84	-13.81	-9.23	-6.35	-4.75	-4.16	-4.65	-6.09	-8.66	--	--	--	--	--	--	--	--	--	--	--	--	--



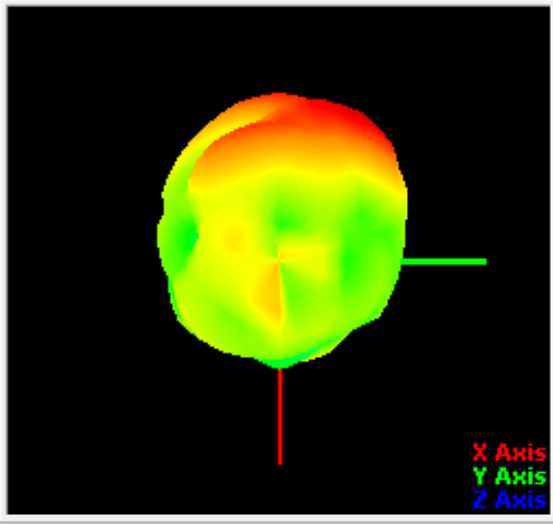
T45-P45



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-17.27
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-20.38
-21.94
-23.5



T45-P225

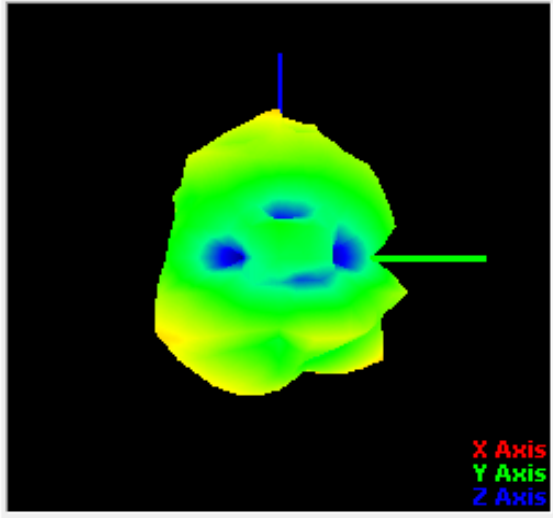


T0-P0

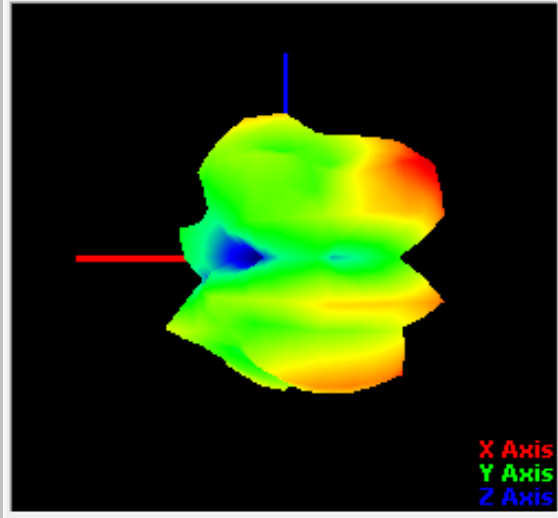


2.99
1.44
-0.12
-1.68
-3.24
-4.8
-6.36
-7.92
-9.47
-11.03
-12.59
-14.15
-15.71
-17.27
-18.83
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-23.5

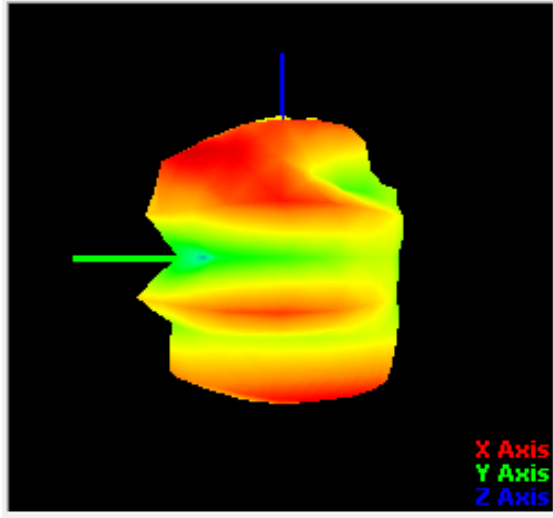
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Red L. Axis X Theta90-Phi0
Green L. Axis Y Theta90-Phi90
Blue L. Axis Z Theta0



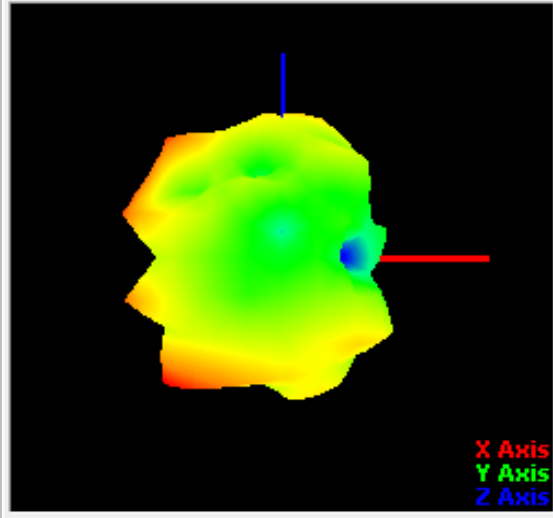
T90-P0



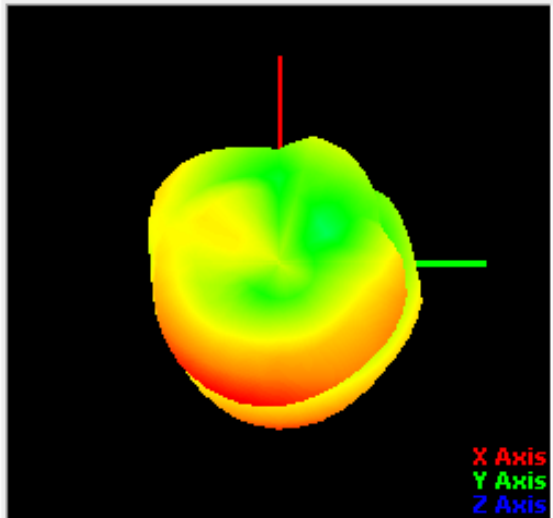
T90-P90



T90-P180



T90-P270



T180-P0

