

Report for Broadcom

Model: 20220623H32 V1.2

Godox Photo Equipment Co.,Ltd.

4th Floor of Building 1, 1st to 4th Floor of Building 2, 4th Floor of Building 3, 1st to 4th Floor of Building 4, Yao
chuan Industrial Zone, Tangwei Community,
Fuhai Street, Bao'an District, Shenzhen 518103, China

Tested Products.

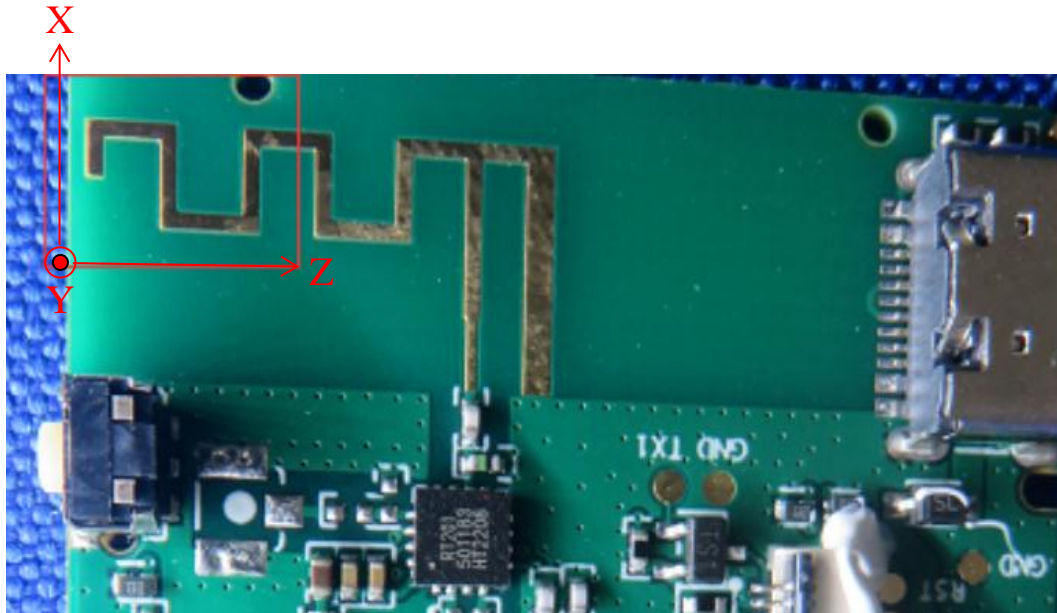
- Antenna 1: integrated antenna.
 - Frequency = 2.402GHz.
 - Frequency = 2.441GHz.
 - Frequency = 2.480GHz.

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Y

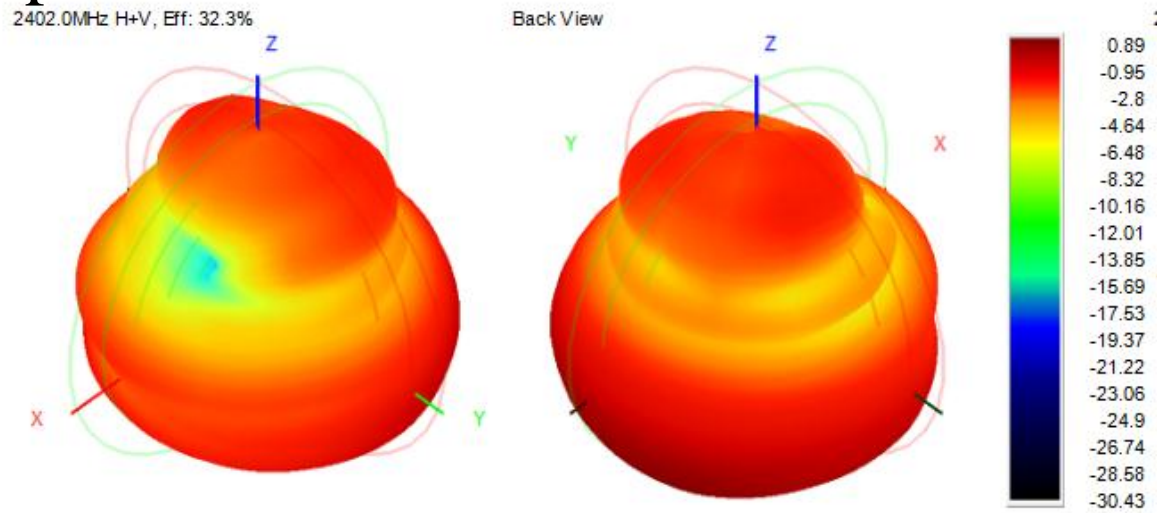
Coordinate System Reference: Antenna-TX



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Radiation pattern: Antenna-TX 2D Pattern at $f = 2.402\text{GHz}$

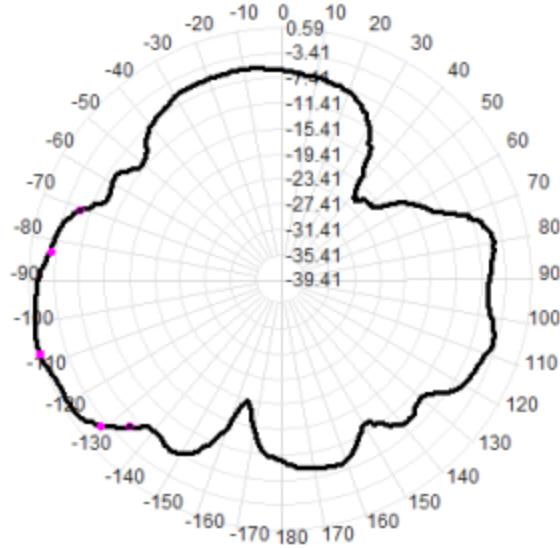


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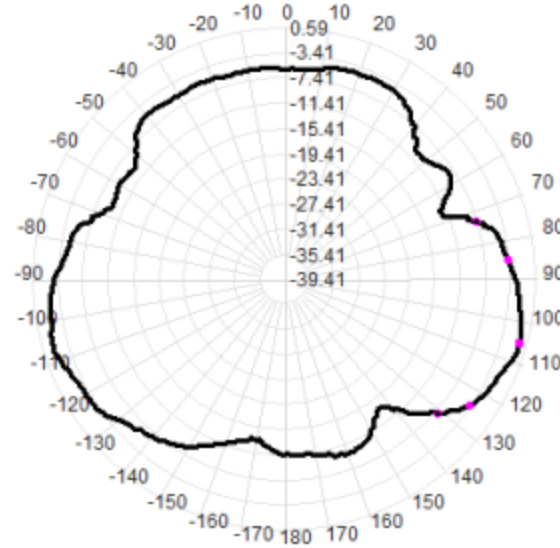
4th Floor of Building 1, 1st to 4th Floor of Building 2, 4th Floor of Building 3, 1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103, China

Radiation pattern: Antenna-TX 2D Pattern at $f = 2.402\text{GHz}$

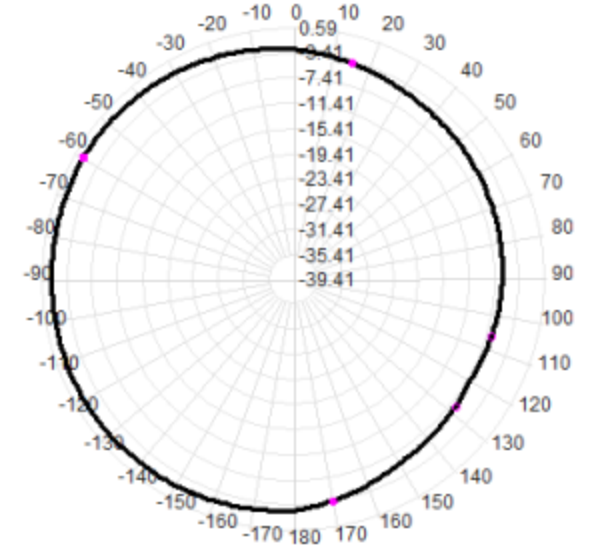
2402.0MHz Total(E1-XZ), Max= 0.59dBi



2402.0MHz Total(E2-YZ), Max= -0.86dBi



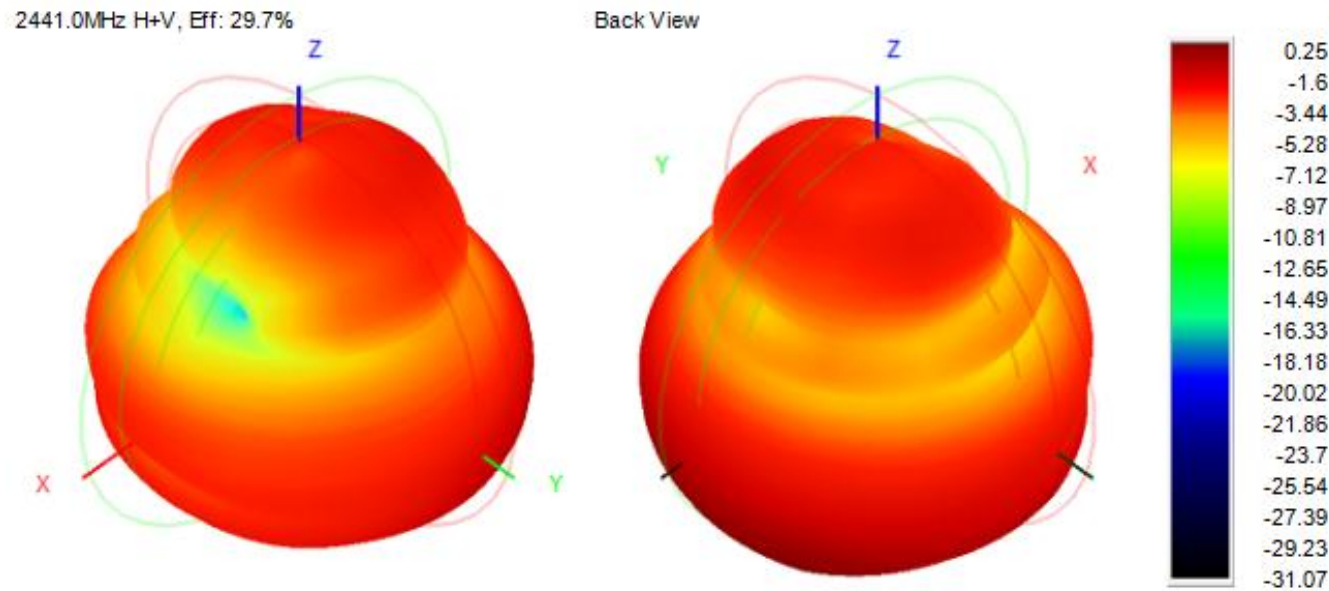
Total(H-XY), Max= -0.82dBi, CirD=6.41



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Radiation pattern: Antenna-TX 3D Pattern at $f = 2.441\text{GHz}$

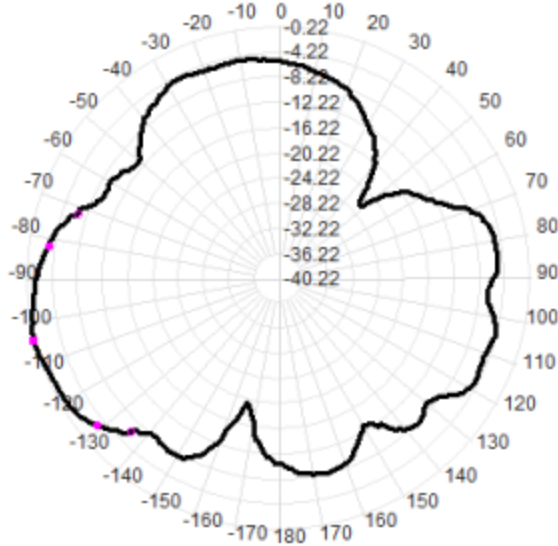


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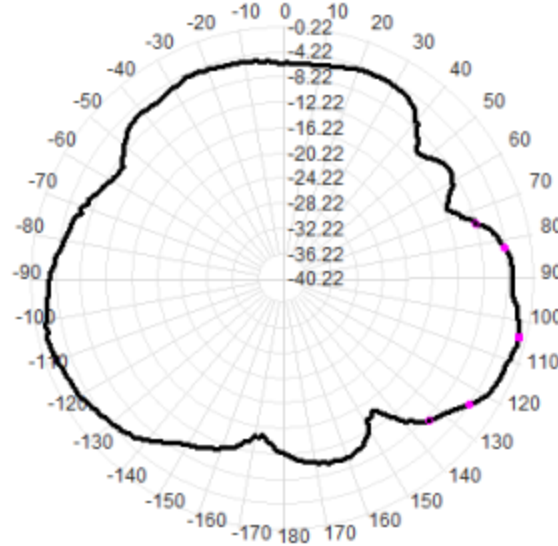
4th Floor of Building 1, 1st to 4th Floor of Building 2, 4th Floor of Building 3, 1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103, China

Radiation pattern: Antenna-TX 2D Pattern at $f = 2.441\text{GHz}$

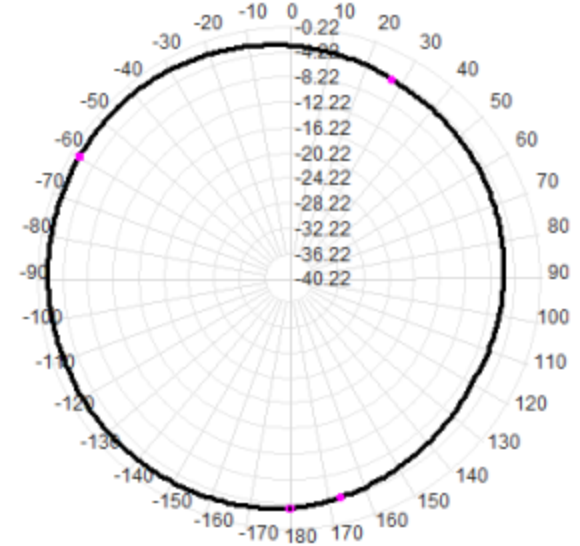
2441.0MHz Total(E1-XZ), Max=-0.22dBi



2441.0MHz Total(E2-YZ), Max=-1.61dBi



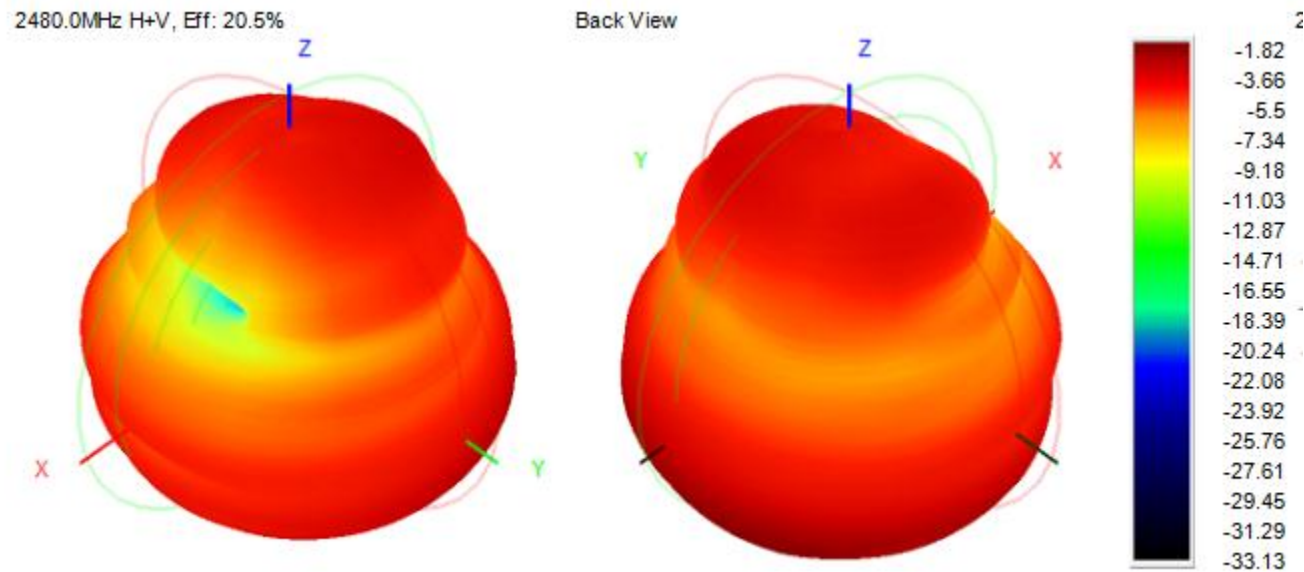
Total(H-XY), Max=-1.64dBi, CirD=5.33



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Radiation pattern: Antenna-TX 3D Pattern at $f = 2.48\text{GHz}$

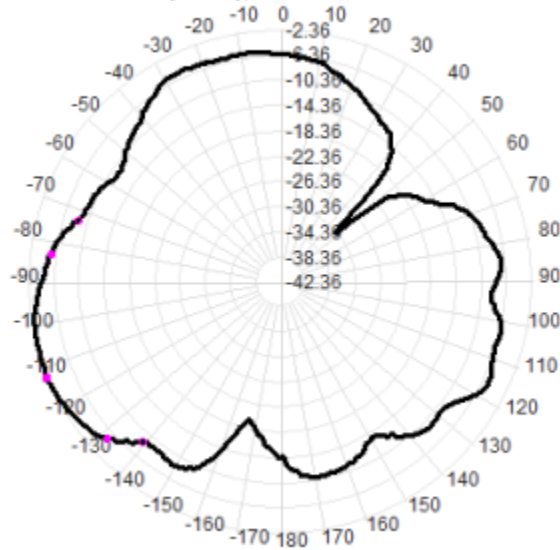


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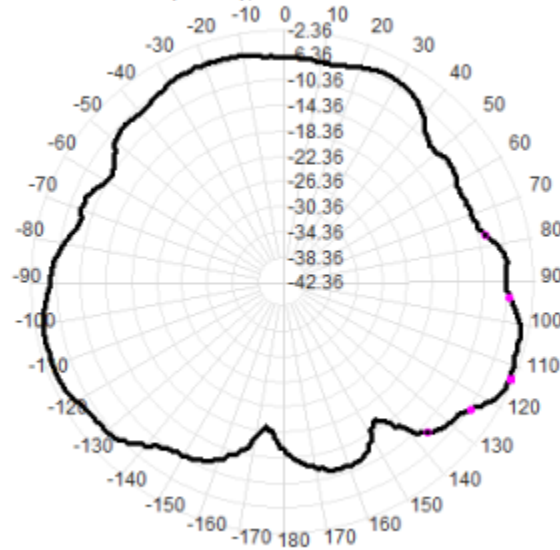
4th Floor of Building 1, 1st to 4th Floor of Building 2, 4th Floor of Building 3, 1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103, China

Radiation pattern: Antenna-TX 2D Pattern at $f = 2.48\text{GHz}$

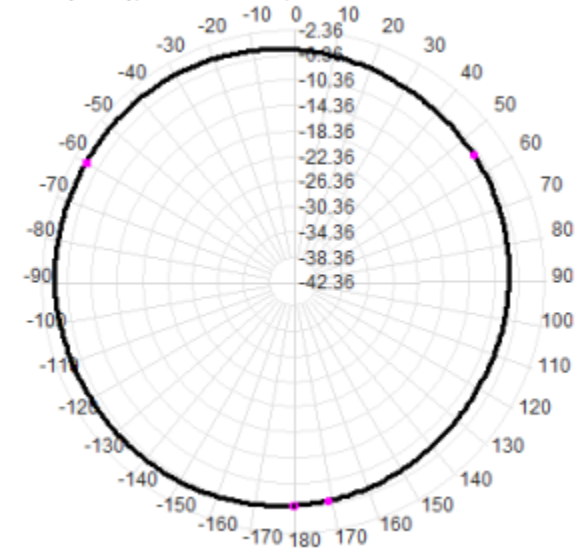
2480.0MHz Total(E1-XZ), Max=-2.36dBi



2480.0MHz Total(E2-YZ), Max=-3.24dBi



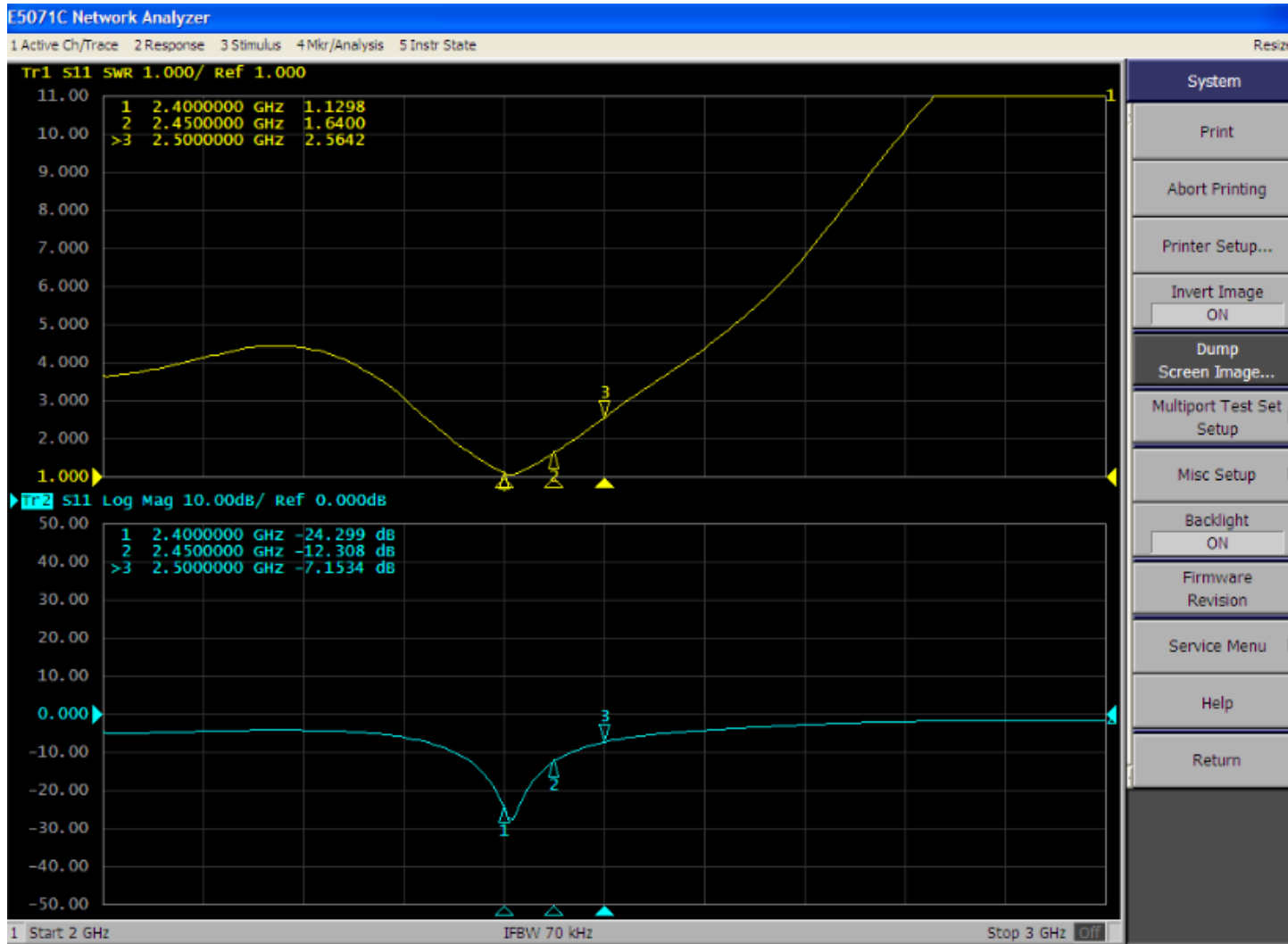
Total(H-XY), Max=-4.38dBi, CirD=4.41



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Return Loss: Antenna1



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Measurements summary

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2402.0	2410.0	2420.0	2430.0	2441.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	0.89	0.88	0.75	0.65	0.25	-0.20	-0.91	-1.40	-1.82	-2.22	-2.74
Efficiency (%)	32.30	32.05	31.50	31.68	29.75	27.80	24.31	22.19	20.46	18.59	16.52
Directivity (dB)	5.80	5.82	5.77	5.64	5.51	5.36	5.23	5.13	5.08	5.09	5.08
Peak Gain Position (Theta)	74.00	75.00	75.00	76.00	76.00	76.00	74.00	73.00	72.00	70.00	70.00
Peak Gain Position (Phi)	210.00	210.00	210.00	210.00	210.00	210.00	210.00	210.00	210.00	210.00	210.00
Efficiency ThetaPol (%)	28.30	27.99	27.36	27.48	25.60	23.77	20.74	18.83	17.25	15.70	13.90
Efficiency PhiPol (%)	4.00	4.06	4.14	4.20	4.15	4.03	3.58	3.37	3.21	2.89	2.62
Upper Hem. Efficiency (%)	10.86	10.84	10.84	11.12	10.61	10.00	8.75	7.97	7.39	6.73	6.02
Lower Hem. Efficiency (%)	21.45	21.21	20.67	20.56	19.14	17.80	15.56	14.22	13.07	11.87	10.50

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