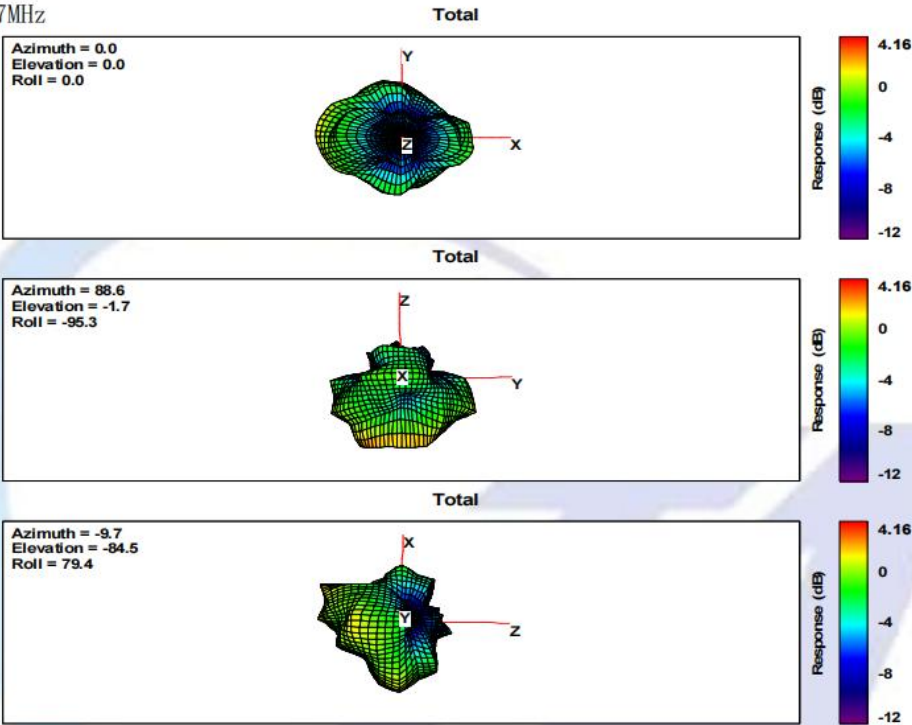


Antenna Specification

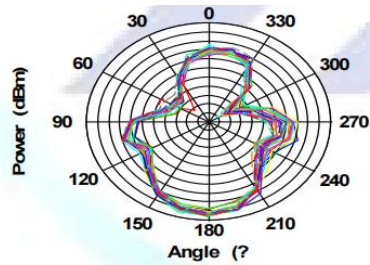
ITEM	ANT SPEC
Model Name	ESP-ANT D-H
Antenna type	PCB Antenna
Antenna Gain	4.16 dBi
antenna size	13.2 mm x 16.6 mm x 2.4 mm
Manufacturer	Espressif System (Shanghai) Co.,Ltd
Manufacturer address	Suite 204 Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park, Shanghai, China

Antenna Photo

2497MHz

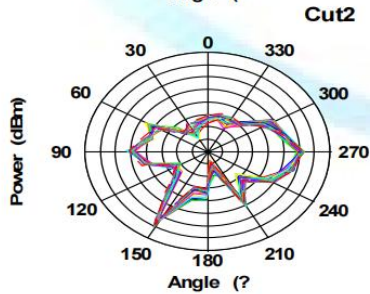


Max: 3
Min: -8
Scale: 1/div



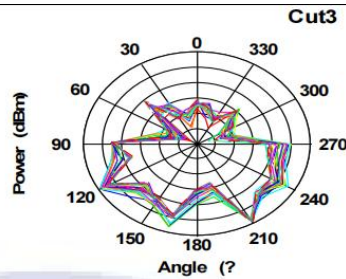
2402 MHz 2452 MHz 2502 MHz
2407 MHz 2457 MHz
2412 MHz 2462 MHz
2417 MHz 2467 MHz
2422 MHz 2472 MHz
2427 MHz 2477 MHz
2432 MHz 2482 MHz
2437 MHz 2487 MHz
2442 MHz 2492 MHz
2447 MHz 2497 MHz

Max: 6
Min: -10
Scale: 2/div



2402 MHz 2452 MHz 2502 MHz
2407 MHz 2457 MHz
2412 MHz 2462 MHz
2417 MHz 2467 MHz
2422 MHz 2472 MHz
2427 MHz 2477 MHz
2432 MHz 2482 MHz
2437 MHz 2487 MHz
2442 MHz 2492 MHz
2447 MHz 2497 MHz

Max: 2
Min: -10
Scale: 2/div



2402 MHz 2452 MHz 2502 MHz
2407 MHz 2457 MHz
2412 MHz 2462 MHz
2417 MHz 2467 MHz
2422 MHz 2472 MHz
2427 MHz 2477 MHz
2432 MHz 2482 MHz
2437 MHz 2487 MHz
2442 MHz 2492 MHz
2447 MHz 2497 MHz

2402MHz ~2502 MHz Wi-Fi 2.4G 3D Gain

test data

Model	Test State	Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Directivity (dBi)	Note
ESP-ANT D-H	Free Space	2402	-2.18	60.51	2.91	5.09	15°
		2407	-1.99	63.17	3.28	5.28	
		2412	-1.91	64.40	2.84	4.75	
		2417	-1.82	65.70	3.17	5.00	
		2422	-1.82	65.70	2.88	4.70	
		2427	-1.99	63.21	2.92	4.92	
		2432	-2.07	62.07	3.11	5.18	
		2437	-1.96	63.67	3.11	5.07	
		2442	-2.06	62.23	3.33	5.39	
		2447	-2.08	61.90	3.40	5.48	
		2452	-2.07	62.11	3.59	5.66	
		2457	-2.05	62.41	3.62	5.67	
		2462	-2.02	62.88	3.75	5.77	
		2467	-2.27	59.35	3.65	5.92	
		2472	-2.41	57.41	3.70	6.11	
		2477	-2.21	60.18	3.70	5.91	
		2482	-2.26	59.45	3.96	6.21	
		2487	-2.28	59.22	4.05	6.33	
		2492	-2.12	61.39	3.92	6.03	
		2497	-2.03	62.71	4.16	6.19	
		2502	-2.08	61.91	4.03	6.12	

