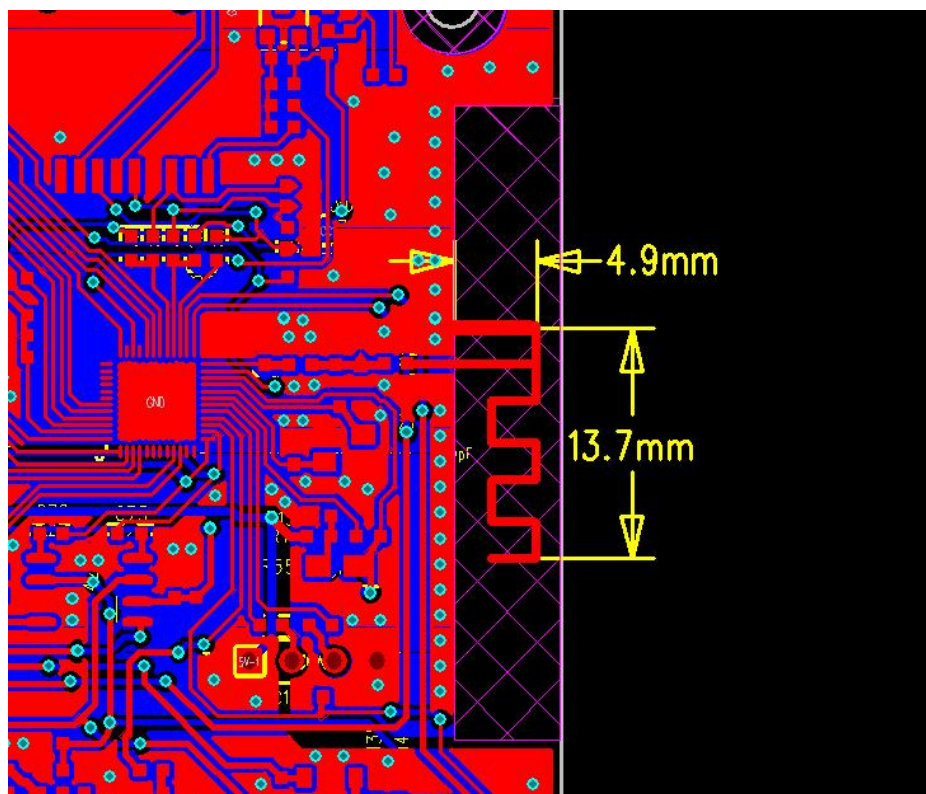


Antenna Specification Sheet

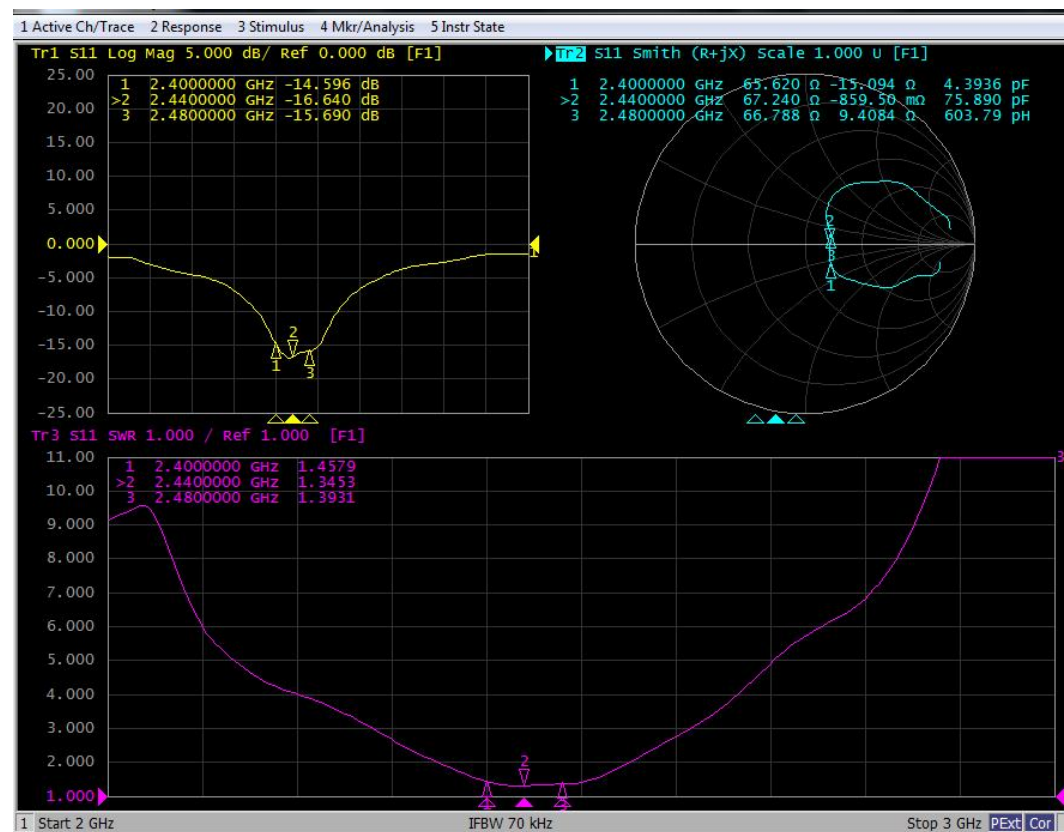
The integral antenna of the modules is a PCB trace type. The embedded antenna is not commercially available: it is only intended for use as the self-contained integral antenna of the radiomodule.

Manufacturer	ACTIONS TECHNOLOGY CO., LTD
Address	No.1, Ke Ji Si Road, Hi-Tech Zone, Zhuhai, Guangdong, China 519085
Frequency Range (MHz)	2.4 GHz-2.4835 GHz
Input Impedance	50Ω
Types of Antennas	On-board Antenna

Antenna size



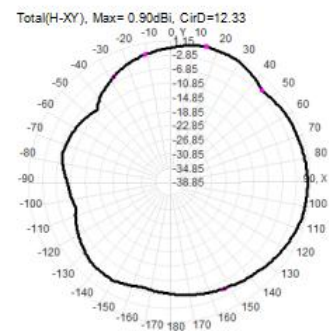
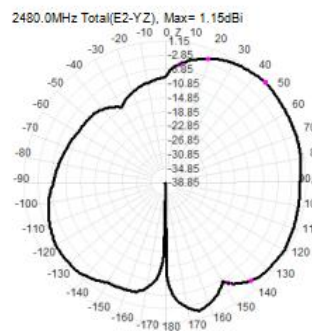
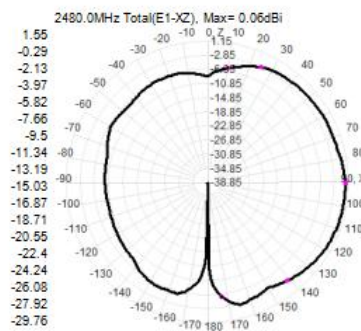
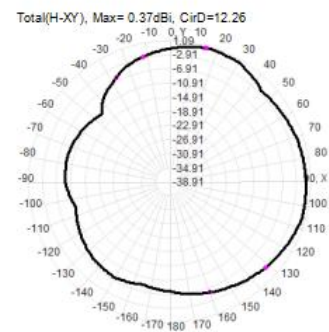
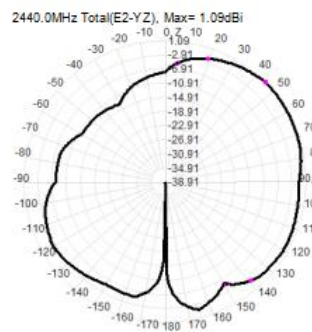
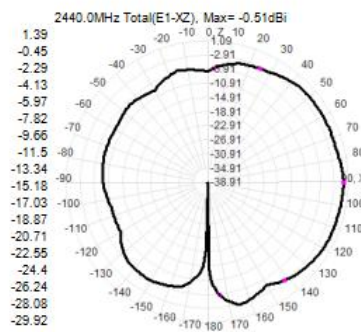
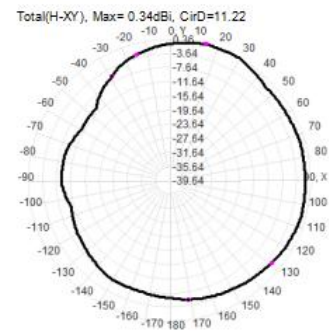
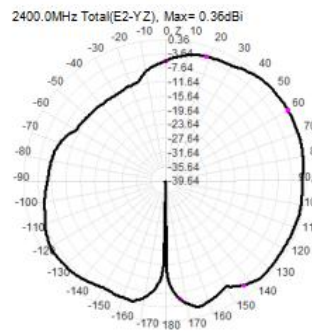
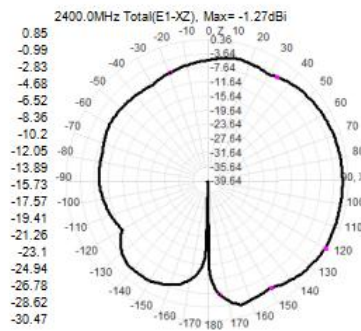
Antenna impedance:



Passive efficiency, gain, directionality, roundness

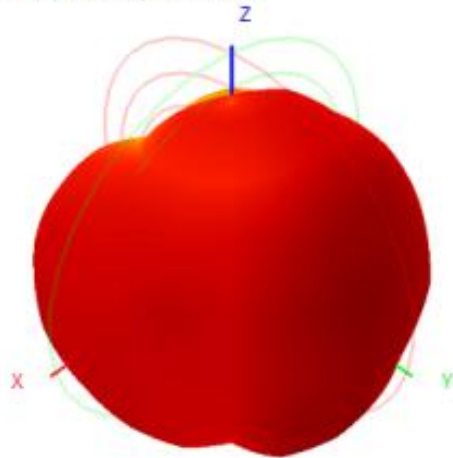
Frequency (MHz)	Gain (dBi)	Efficiency (%)	Efficiency (dB)	Directivity (dB)	T90(H)Roundness
2400	0.85	42.49	-3.72	4.57	11.22
2410	1.12	43.53	-3.61	4.73	11.25
2420	1.19	44.19	-3.55	4.73	11.43
2430	1.27	44.62	-3.50	4.77	11.67
2440	1.39	44.90	-3.48	4.87	12.26
2450	1.48	45.18	-3.45	4.93	12.18
2460	1.63	45.58	-3.41	5.04	12.25
2470	1.71	45.98	-3.37	5.08	12.09
2480	1.55	46.53	-3.32	4.87	12.33
2490	1.43	46.83	-3.29	4.73	12.02
2500	1.37	46.08	-3.37	4.73	11.75

Antenna 2D pattern

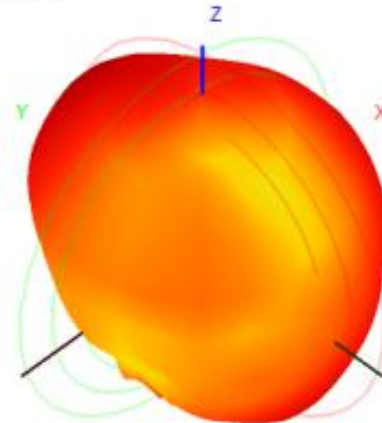


Antenna 3D pattern

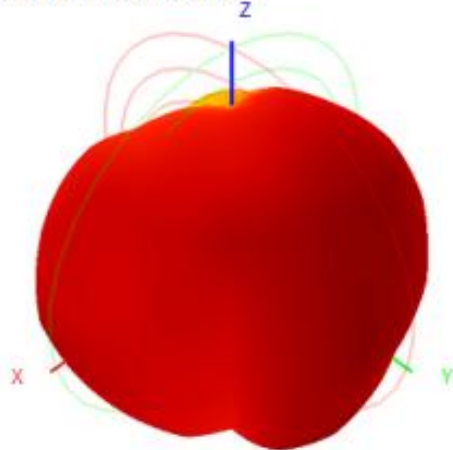
2400.0MHz H+V, Eff: 42.5%



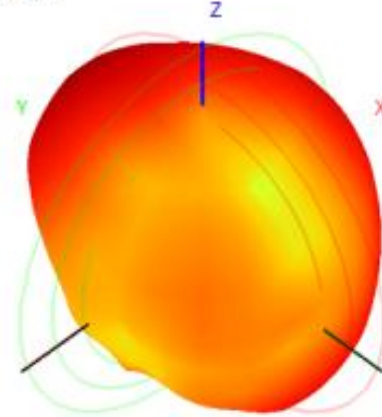
Back View



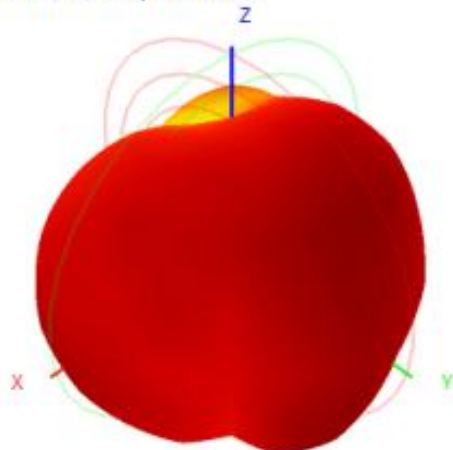
2440.0MHz H+V, Eff: 44.9%



Back View



2480.0MHz H+V, Eff: 46.5%



Back View

