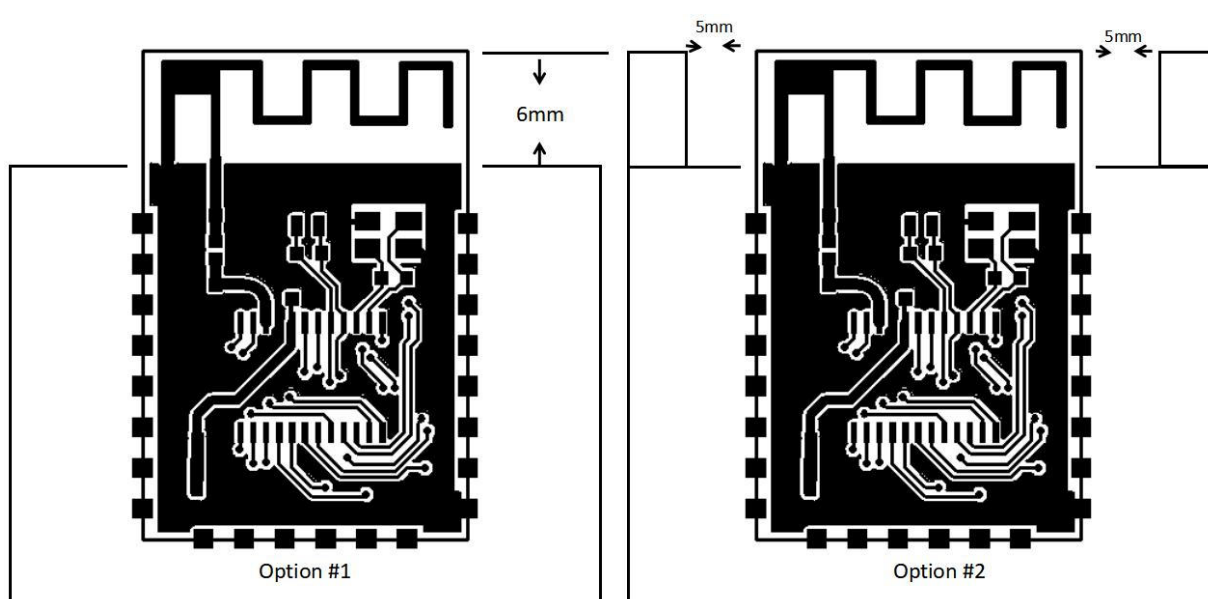


Antenna describe

Model	PB-03F
Package	SMD-22
Size	24.0*16.0*3.1(±0.2)mm
Antenna	On-board antenna
Frequency	2400~2483.5MHz
Operating temperature	-40°C~85°C
Storage temperature	-40°C~125°C,<90%RH
Power supply	Voltage 2.7V~3.6V,Current>200mA
Interface	UART/GPIO/ADC/PWM/I2C/I2S/SPI/PDM/DMA
IO	19
UART rate	Default 115200 bps
Bluetooth	BLE 5.2
Security	AES-128
SPI Flash	256KB

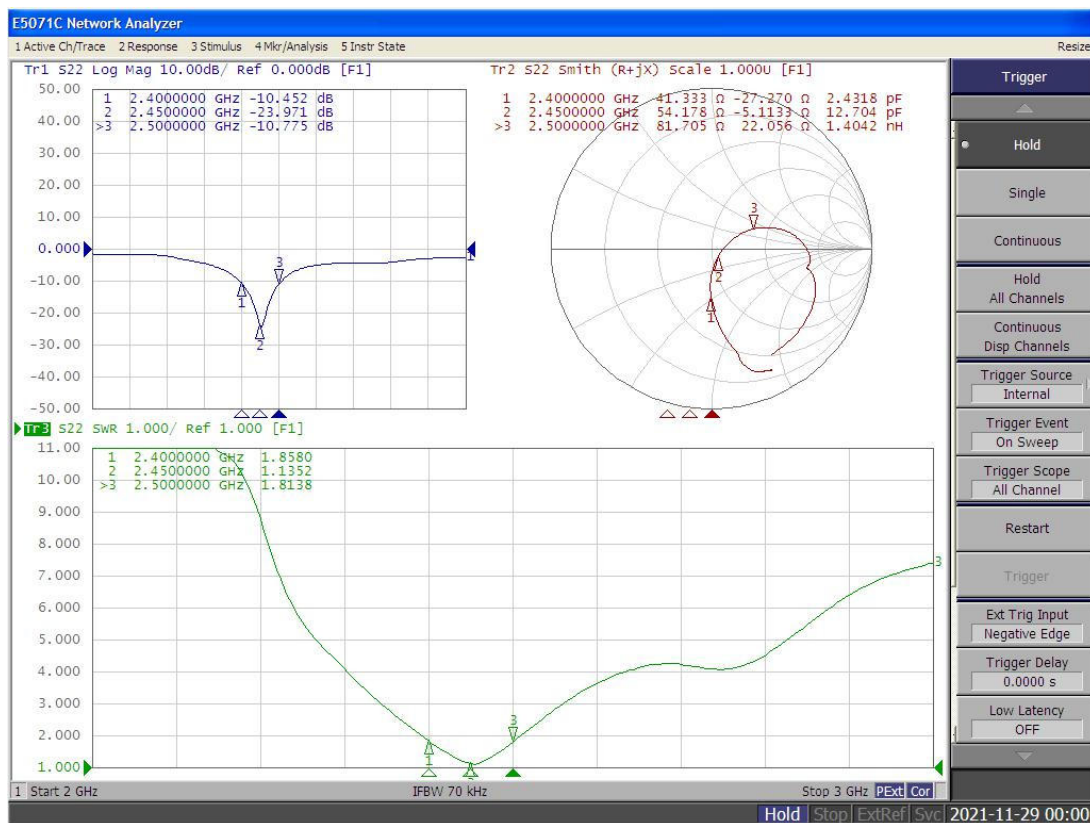
2. External view drawing:



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3. Antenna S parameter



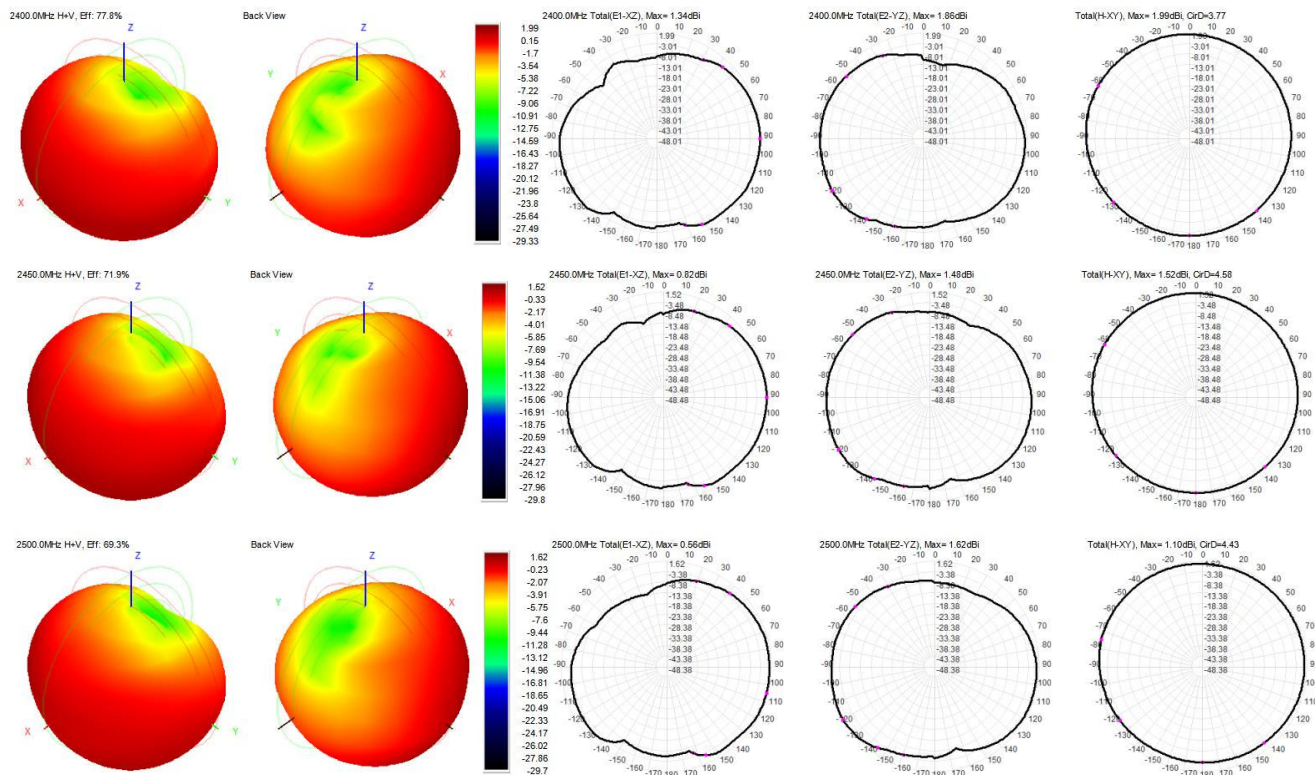
Antenna S parameters

4. Antenna Gain and Efficiency

Antenna Gain and efficiency

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency(MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain(dBi)	1.99	1.84	2.15	1.68	1.70	1.52	1.38	1.45	1.78	1.47	1.62
Efficiency(%)	77.76	76.14	81.08	73.60	74.80	71.89	68.92	69.55	72.83	66.53	69.30

5. Antenna field type diagram



Antenna field type diagram