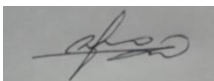


ANTENNA SPECIFICATION

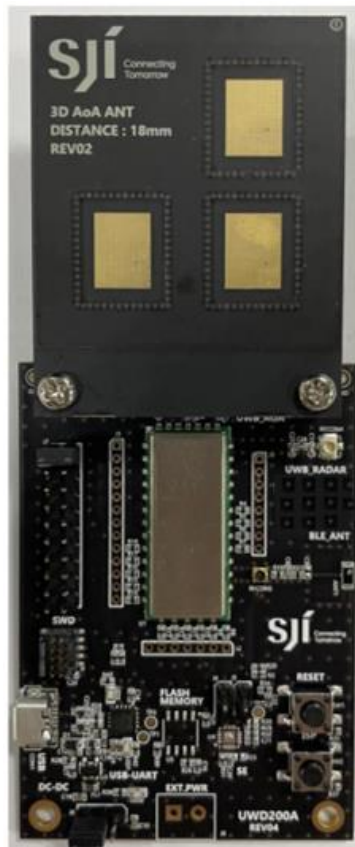
ITEM	BT ANTENNA
Maker	INPAQ
Maker P/N	ACA-3216-A1-CC-S
Frequency	2400MHz ~ 2480MHz
APPLIED TO	UWB Module

DRAWING	CHECK	APPROVAL
		
CHUNG. SY		LEE. SY
2023. 02. 08		2023. 02. 08

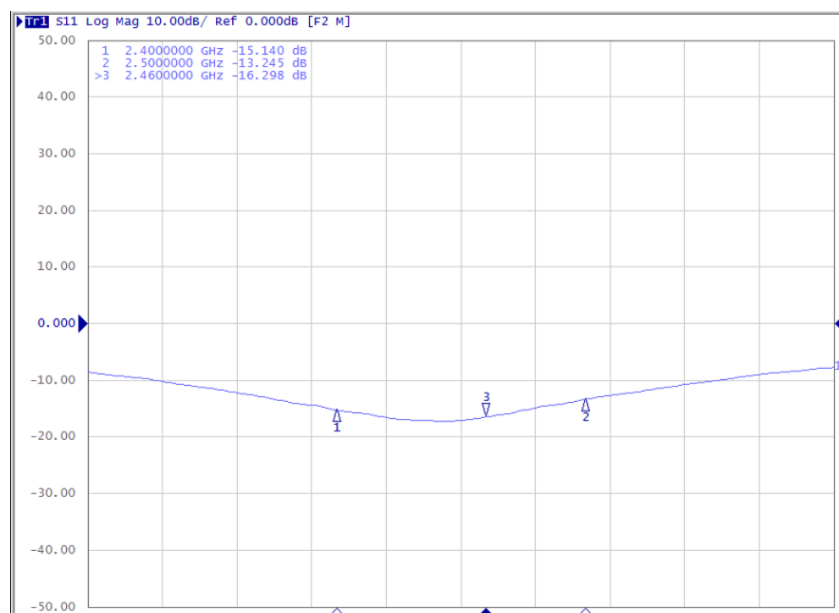


Antenna Characteristics

1. Antenna Design



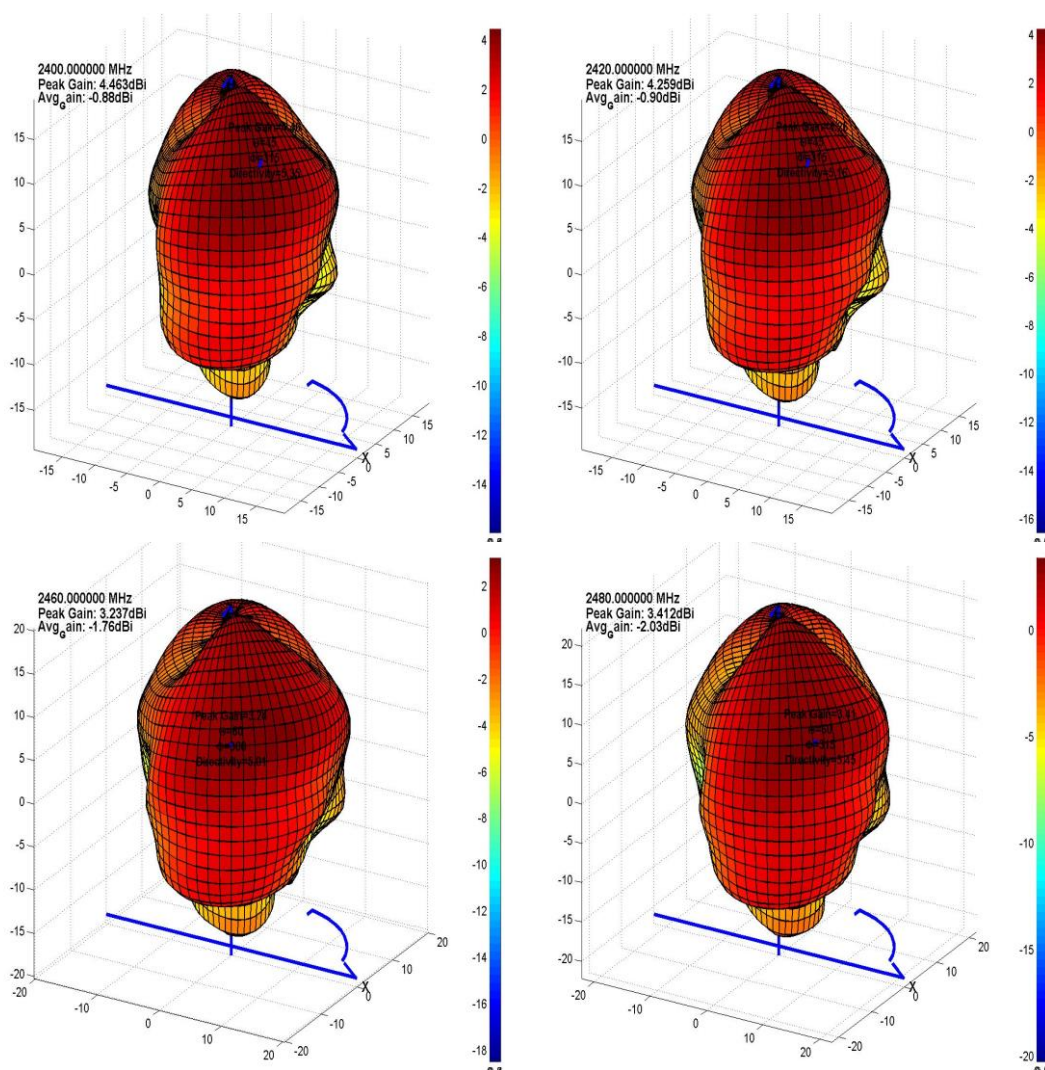
2. S11 parameter



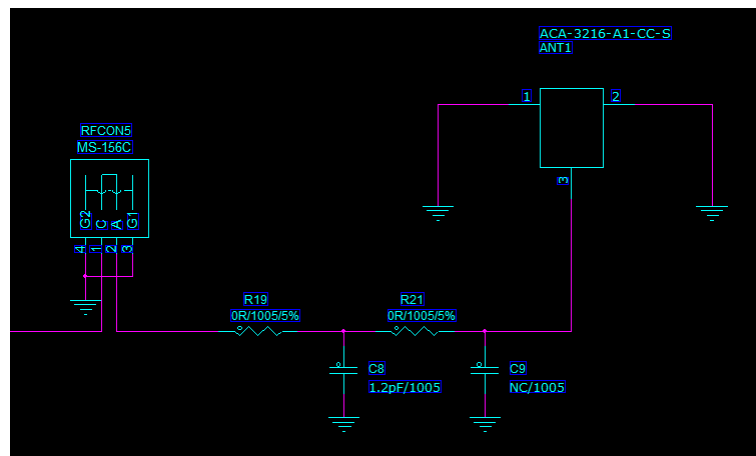
3. Antenna Gain

Frequency	Efficiency	Average Gain			Max Gain		
		Ver	Hor	Total	Ver	Hor	Total
2400.000000 MHz	81.6 %	-3.2 dBi	-4.7 dBi	-0.9 dBi	2.4 dBi	2.5 dBi	4.5 dBi
2410.000000 MHz	81.5 %	-3.2 dBi	-4.7 dBi	-0.9 dBi	2.3 dBi	2.5 dBi	4.4 dBi
2420.000000 MHz	81.3 %	-3.3 dBi	-4.7 dBi	-0.9 dBi	2.2 dBi	2.4 dBi	4.3 dBi
2430.000000 MHz	78.6 %	-3.4 dBi	-4.8 dBi	-1.0 dBi	2.0 dBi	2.2 dBi	4.0 dBi
2440.000000 MHz	75.0 %	-3.7 dBi	-4.9 dBi	-1.3 dBi	1.8 dBi	1.9 dBi	3.8 dBi
2450.000000 MHz	72.5 %	-3.8 dBi	-5.1 dBi	-1.4 dBi	1.6 dBi	1.7 dBi	3.6 dBi
2460.000000 MHz	66.6 %	-4.2 dBi	-5.5 dBi	-1.8 dBi	1.3 dBi	1.3 dBi	3.2 dBi
2470.000000 MHz	59.6 %	-4.6 dBi	-6.0 dBi	-2.2 dBi	0.6 dBi	0.8 dBi	3.2 dBi
2480.000000 MHz	62.5 %	-4.4 dBi	-5.8 dBi	-2.0 dBi	0.9 dBi	1.0 dBi	3.4 dBi

4. Radiation Pattern



5. matching Value



5. X,Y,Z Axis

