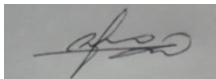


ANTENNA SPECIFICATION

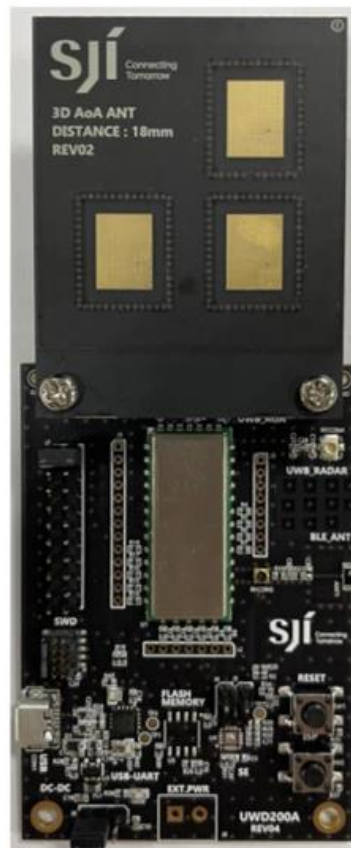
ITEM	UWB ANTENNA
Maker	SJI
Maker P/N	59-09000059
Frequency	6240MHz ~ 8500MHz
APPLIED TO	UWB Module

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



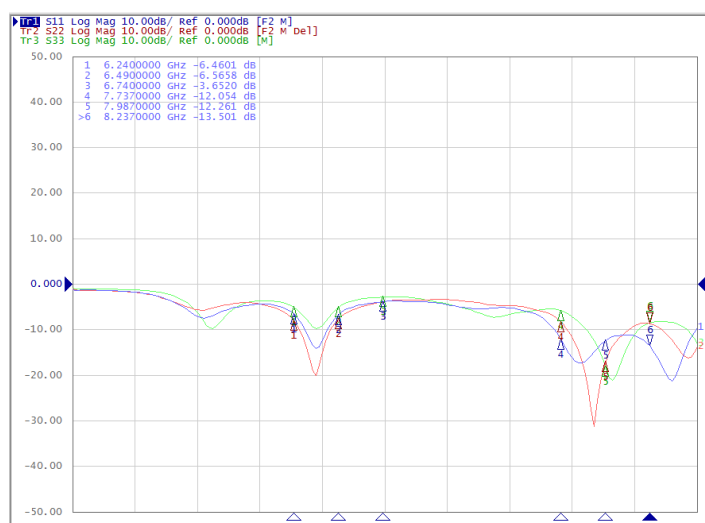
Antenna Characteristics

1. Picture

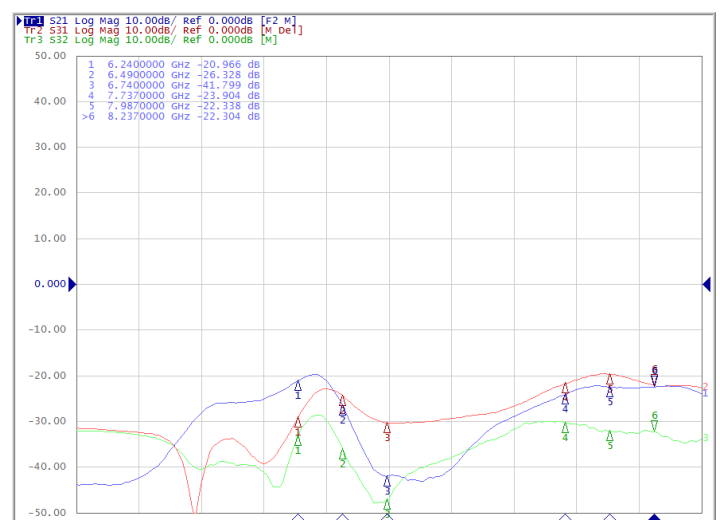


2. S11 parameter

Resonance at CH5 and CH9 are achieved



S11 measurement

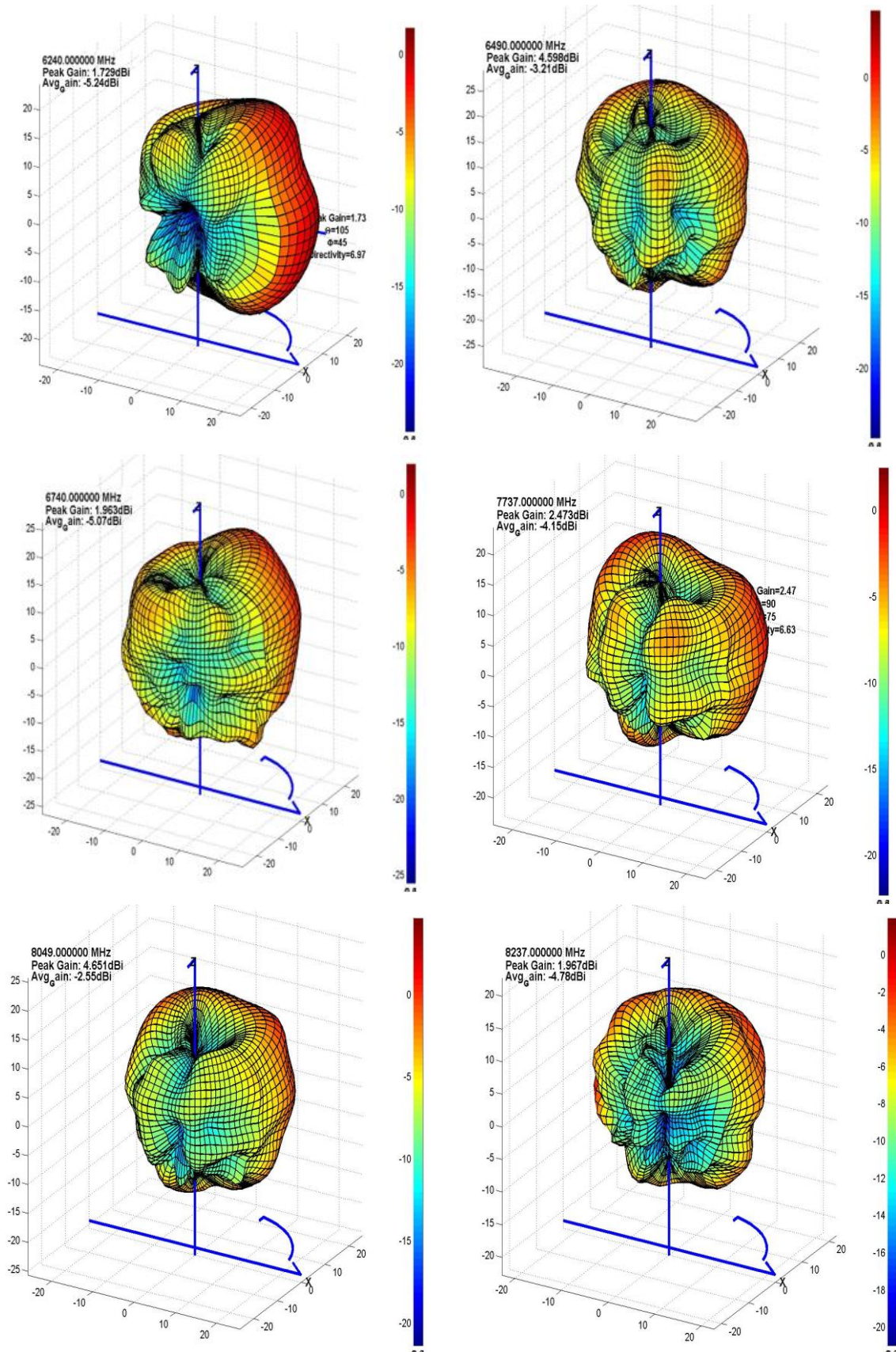


Isolation

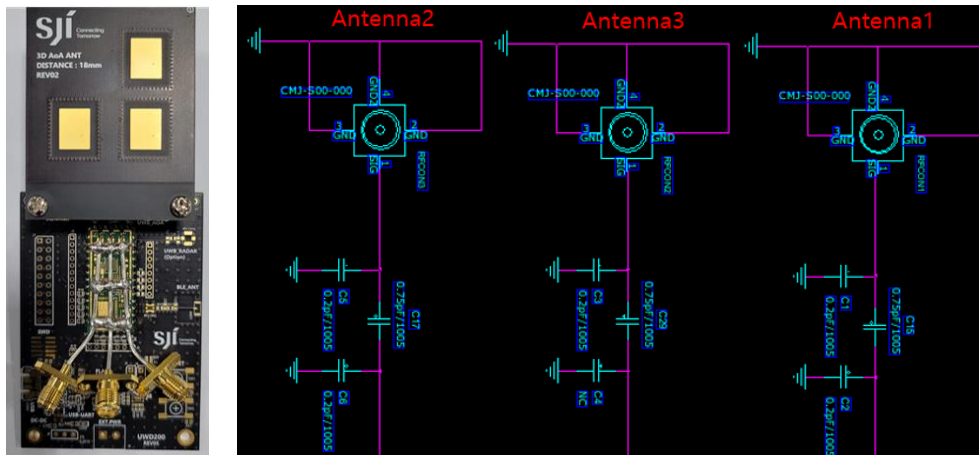
3. Antenna Gain

Frequency	Efficiency	Average Gain			Max Gain		
		Ver	Hor	Total	Ver	Hor	Total
6240.000000 MHz	20.1 %	-15.3 dBi	-7.7 dBi	-7.0 dBi	-5.3 dBi	1.5 dBi	1.7 dBi
6365.000000 MHz	28.2 %	-13.2 dBi	-6.3 dBi	-5.5 dBi	-2.7 dBi	2.0 dBi	2.5 dBi
6490.000000 MHz	38.6 %	-10.2 dBi	-5.4 dBi	-4.1 dBi	4.1 dBi	-5.0 dBi	4.6 dBi
6615.000000 MHz	32.4 %	-9.5 dBi	-6.7 dBi	-4.9 dBi	4.1 dBi	-5.1 dBi	4.2 dBi
6740.000000 MHz	19.6 %	-10.4 dBi	-9.8 dBi	-7.1 dBi	-5.6 dBi	1.7 dBi	2.0 dBi
6864.000000 MHz	10.3 %	-12.2 dBi	-13.8 dBi	-9.9 dBi	-5.0 dBi	-5.8 dBi	-3.7 dBi
6989.000000 MHz	9.0 %	-12.1 dBi	-15.5 dBi	-10.5 dBi	-4.7 dBi	-6.9 dBi	-3.9 dBi
7114.000000 MHz	6.8 %	-12.9 dBi	-18.0 dBi	-11.7 dBi	-5.6 dBi	-8.9 dBi	-5.1 dBi
7239.000000 MHz	9.8 %	-11.2 dBi	-16.5 dBi	-10.1 dBi	-3.7 dBi	-7.5 dBi	-3.5 dBi
7363.000000 MHz	10.4 %	-10.9 dBi	-16.4 dBi	-9.8 dBi	-3.3 dBi	-7.6 dBi	-3.1 dBi
7488.000000 MHz	16.8 %	-8.6 dBi	-15.0 dBi	-7.7 dBi	-1.2 dBi	-7.0 dBi	-1.1 dBi
7613.000000 MHz	22.2 %	-7.3 dBi	-14.5 dBi	-6.5 dBi	-0.2 dBi	-6.3 dBi	0.0 dBi
7737.000000 MHz	38.4 %	-4.8 dBi	-12.5 dBi	-4.2 dBi	2.4 dBi	-6.2 dBi	2.5 dBi
7800.000000 MHz	48.4 %	-3.9 dBi	-11.3 dBi	-3.1 dBi	3.2 dBi	-5.3 dBi	3.3 dBi
7862.000000 MHz	42.6 %	-4.4 dBi	-11.9 dBi	-3.7 dBi	2.8 dBi	-6.1 dBi	2.9 dBi
7924.000000 MHz	57.1 %	-3.1 dBi	-10.8 dBi	-2.4 dBi	4.4 dBi	-4.4 dBi	4.6 dBi
7987.000000 MHz	47.6 %	-3.9 dBi	-11.7 dBi	-3.2 dBi	3.5 dBi	-4.9 dBi	3.8 dBi
8049.000000 MHz	55.5 %	-3.2 dBi	-11.0 dBi	-2.6 dBi	4.0 dBi	-3.8 dBi	4.7 dBi
8112.000000 MHz	45.4 %	-4.1 dBi	-11.9 dBi	-3.4 dBi	3.4 dBi	-4.2 dBi	4.1 dBi
8174.000000 MHz	37.9 %	-4.9 dBi	-12.8 dBi	-4.2 dBi	2.6 dBi	-5.3 dBi	3.3 dBi
8237.000000 MHz	33.3 %	-5.4 dBi	-13.5 dBi	-4.8 dBi	1.8 dBi	-6.3 dBi	2.0 dBi
8361.000000 MHz	28.5 %	-6.0 dBi	-15.0 dBi	-5.5 dBi	0.8 dBi	-6.1 dBi	1.0 dBi
8486.000000 MHz	27.2 %	-6.2 dBi	-14.9 dBi	-5.7 dBi	0.7 dBi	-6.8 dBi	0.9 dBi
8500.000000 MHz	26.3 %	-6.4 dBi	-15.0 dBi	-5.8 dBi	0.6 dBi	-7.3 dBi	0.9 dBi

4. Radiation Pattern



5. matching Value



5. X,Y,Z Axis

