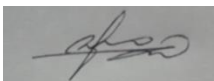


ANTENNA SPECIFICATION

ITEM	UWB ANTENNA
Maker	INPAQ
Maker P/N	ACL-5036-A0-CC-S
Frequency	6240MHz ~ 8500MHz
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

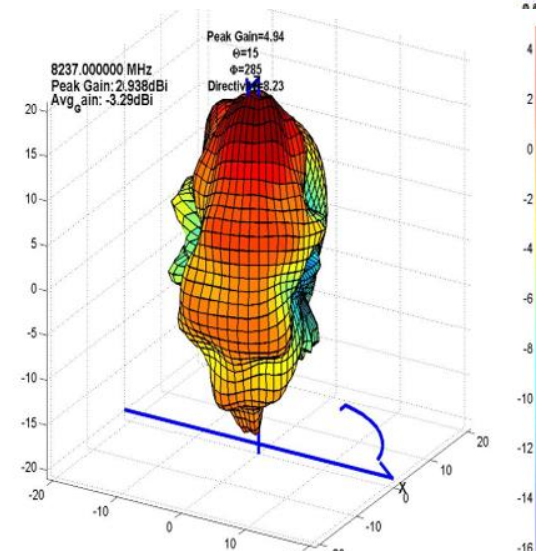
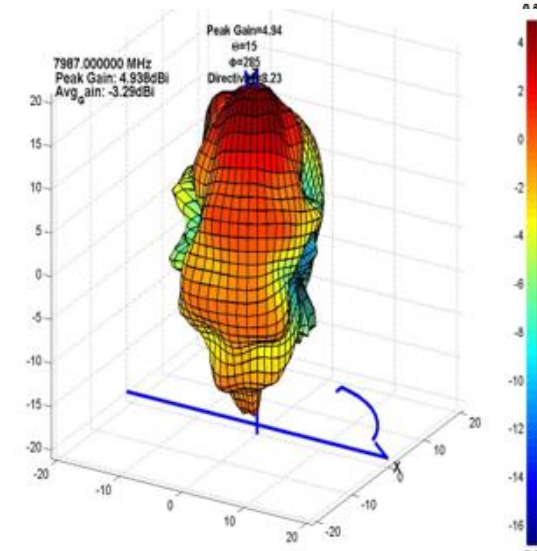
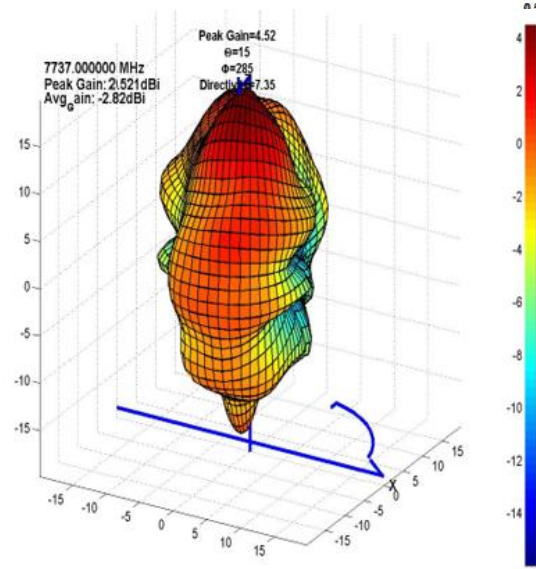
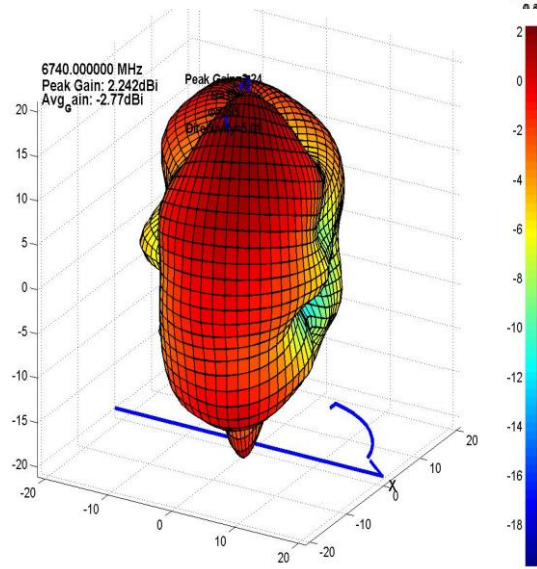
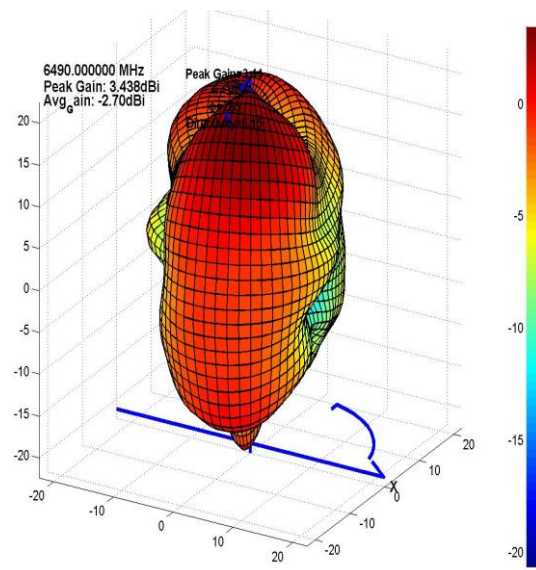
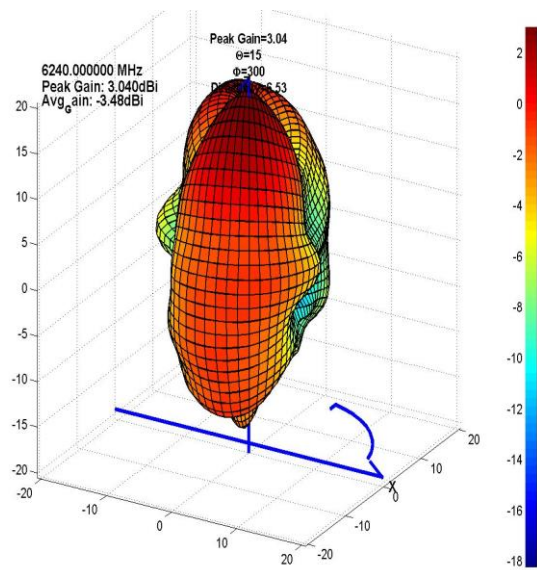
Resonance at multiple channels are achieved



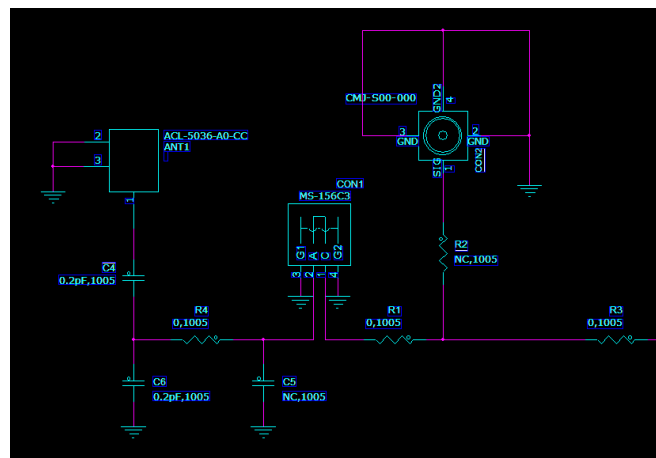
3. Antenna Gain

Frequency	Efficiency	Average Gain			Max Gain		
		Ver	Hor	Total	Ver	Hor	Total
6240.000000 MHz	44.8 %	-5.0 dBi	-8.7 dBi	-3.5 dBi	1.9 dBi	0.1 dBi	3.0 dBi
6365.000000 MHz	42.5 %	-5.3 dBi	-8.9 dBi	-3.7 dBi	1.0 dBi	1.0 dBi	2.2 dBi
6490.000000 MHz	53.6 %	-4.2 dBi	-8.0 dBi	-2.7 dBi	2.4 dBi	0.2 dBi	3.4 dBi
6615.000000 MHz	59.0 %	-3.9 dBi	-7.3 dBi	-2.3 dBi	2.1 dBi	0.2 dBi	4.8 dBi
6740.000000 MHz	52.8 %	-4.5 dBi	-7.5 dBi	-2.8 dBi	0.9 dBi	0.7 dBi	3.3 dBi
6864.000000 MHz	44.6 %	-5.3 dBi	-8.1 dBi	-3.5 dBi	0.2 dBi	-1.0 dBi	1.6 dBi
6989.000000 MHz	51.4 %	-4.9 dBi	-7.1 dBi	-2.9 dBi	0.3 dBi	-0.4 dBi	2.0 dBi
7114.000000 MHz	27.4 %	-7.7 dBi	-9.8 dBi	-5.6 dBi	-2.3 dBi	-3.5 dBi	-1.3 dBi
7239.000000 MHz	32.6 %	-7.1 dBi	-8.9 dBi	-4.9 dBi	-1.6 dBi	-2.4 dBi	-0.3 dBi
7363.000000 MHz	31.5 %	-7.3 dBi	-8.9 dBi	-5.0 dBi	-0.5 dBi	-2.2 dBi	0.9 dBi
7488.000000 MHz	38.8 %	-6.5 dBi	-7.8 dBi	-4.1 dBi	0.3 dBi	-1.2 dBi	1.8 dBi
7613.000000 MHz	53.5 %	-4.9 dBi	-6.7 dBi	-2.7 dBi	2.5 dBi	1.7 dBi	3.8 dBi
7737.000000 MHz	52.2 %	-5.1 dBi	-6.8 dBi	-2.8 dBi	1.2 dBi	1.3 dBi	2.5 dBi
7800.000000 MHz	68.1 %	-3.9 dBi	-5.7 dBi	-1.7 dBi	1.8 dBi	1.5 dBi	3.0 dBi
7862.000000 MHz	55.8 %	-4.8 dBi	-6.5 dBi	-2.5 dBi	1.8 dBi	1.4 dBi	3.7 dBi
7924.000000 MHz	59.2 %	-4.5 dBi	-6.3 dBi	-2.3 dBi	1.9 dBi	1.5 dBi	4.2 dBi
7987.000000 MHz	62.3 %	-4.2 dBi	-6.2 dBi	-2.1 dBi	2.1 dBi	1.6 dBi	4.9 dBi
8049.000000 MHz	72.5 %	-3.5 dBi	-5.5 dBi	-1.4 dBi	2.7 dBi	2.6 dBi	4.8 dBi
8112.000000 MHz	65.7 %	-3.9 dBi	-6.0 dBi	-1.8 dBi	2.8 dBi	2.3 dBi	4.0 dBi
8174.000000 MHz	49.8 %	-5.0 dBi	-7.4 dBi	-3.0 dBi	2.2 dBi	1.4 dBi	3.5 dBi
8237.000000 MHz	46.9 %	-5.2 dBi	-7.8 dBi	-3.3 dBi	1.8 dBi	1.0 dBi	2.9 dBi
8361.000000 MHz	38.8 %	-6.1 dBi	-8.5 dBi	-4.1 dBi	2.0 dBi	-0.4 dBi	3.4 dBi
8486.000000 MHz	31.1 %	-7.1 dBi	-9.3 dBi	-5.1 dBi	0.8 dBi	-1.7 dBi	2.2 dBi
8500.000000 MHz	28.3 %	-7.5 dBi	-9.7 dBi	-5.5 dBi	0.4 dBi	-2.0 dBi	1.9 dBi

4. Radiation Pattern



5. matching Value



5. X,Y,Z Axis

