



MC3401 Antenna SPECIFICATION

Antenna Manufacturer Name	Universal Global Scientific Industrial Co., Ltd.
Address	No.141, Lane 351, Sec.1, Taiping Road, Tsaotuen, Nantou County 542007, Taiwan
ODM P/N:	46-500585-01
Test DATE	2024/04/18
DATASHEET REVISION	V1
Ant. Type (PIFA)	Ant-6, Ant-7
Ant. Type (Loop)	NFC

Test Engineer: Star Chen



Description of Antenna

Antenna 6 Structure	
Frequency Range	2400-2500MHz, 5150-5850MHz and 5925-7125MHz
Impedance	50 ohm
Antenna type	PIFA
Manufacturing Process	LDS

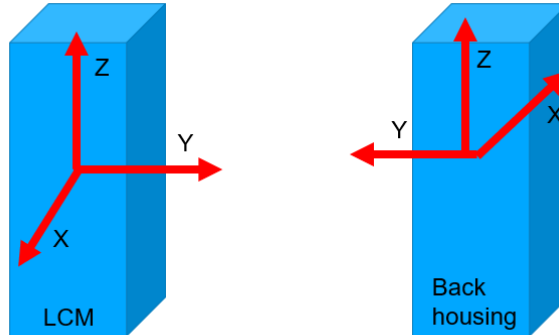
Antenna Ant-6 Peak Gain

Gun SKU	
Frequency (MHz)	Peak gain (dBi)
2400	2.00
2450	1.88
2500	1.99
5150	1.60
5250	1.51
5350	1.50
5450	1.20
5550	1.50
5650	1.46
5750	1.17
5850	1.05
5925	1.02
6425	1.52
6525	1.65
6875	1.08
7125	0.53

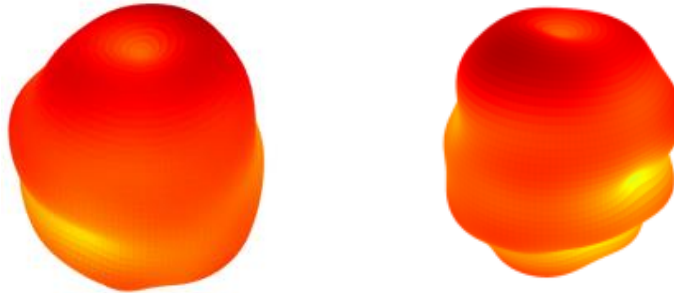


Antenna Radiation Patterns

DUT Axis Reference



- 2400 MHz



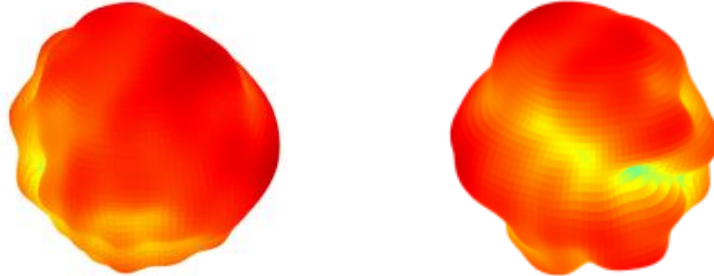
- 2450 MHz



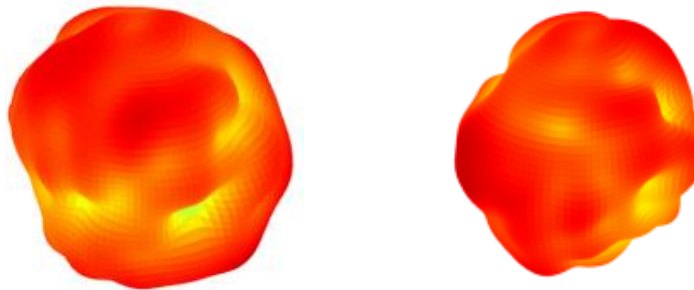
- 2500 MHz



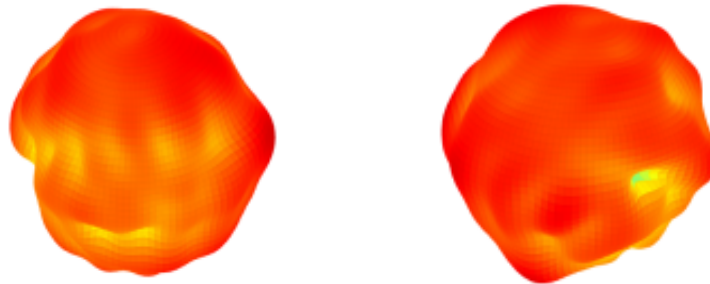
- 5150 MHz



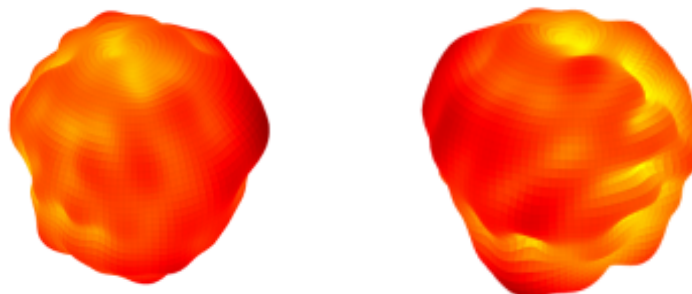
- 5450 MHz



- 5850 MHz

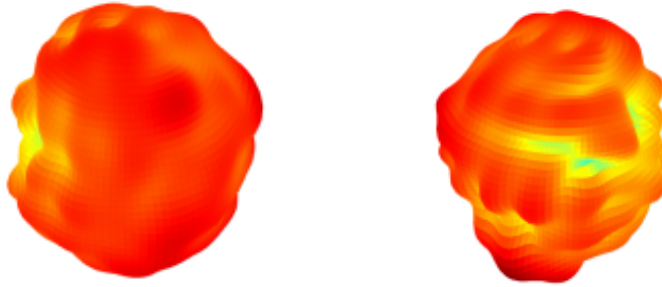


- 5925 MHz

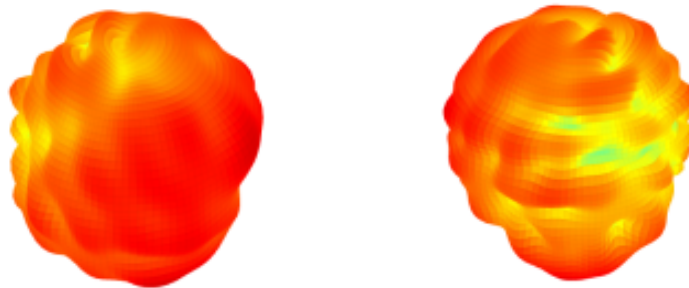




- 6525 MHz



- 7125 MHz



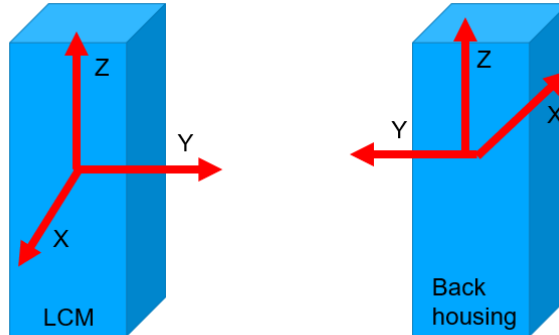
Antenna Ant-6 Peak Gain

Brick SKU	
Frequency (MHz)	Peak gain (dBi)
2400	1.53
2450	1.61
2500	1.33
5150	1.29
5250	1.34
5350	1.43
5450	0.93
5550	0.88
5650	0.84
5750	0.67
5850	0.80
5925	1.01
6425	1.33
6525	1.24
6875	1.09
7125	0.51

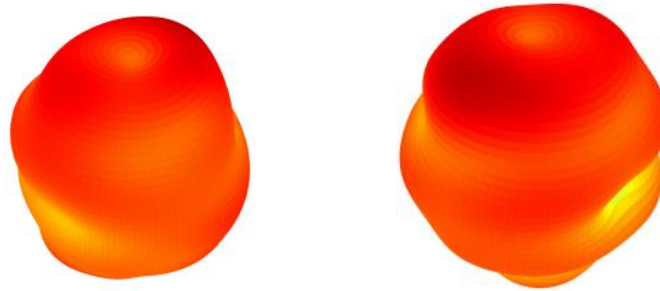


Antenna Radiation Patterns

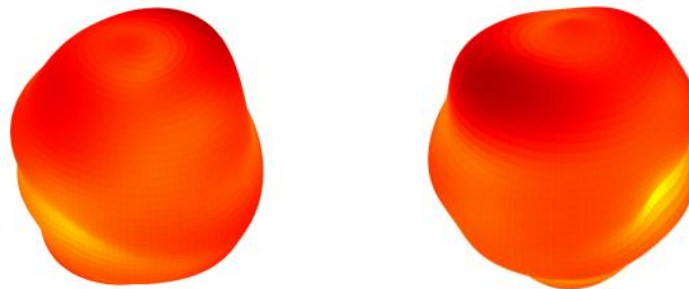
DUT Axis Reference



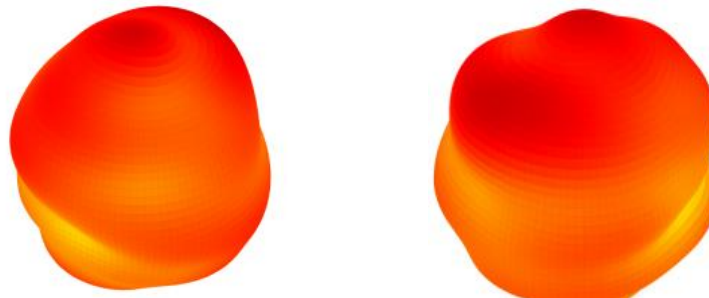
- 2400 MHz



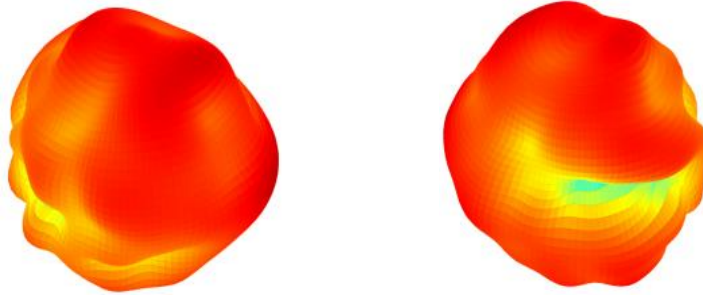
- 2450 MHz



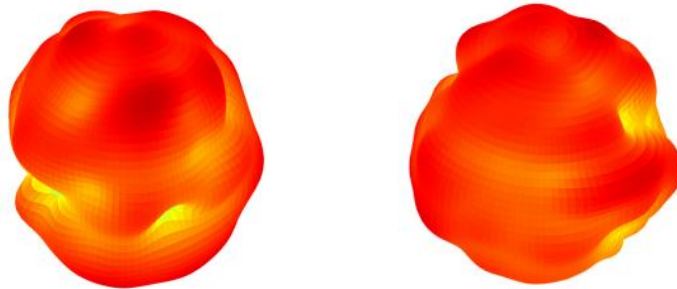
- 2500 MHz



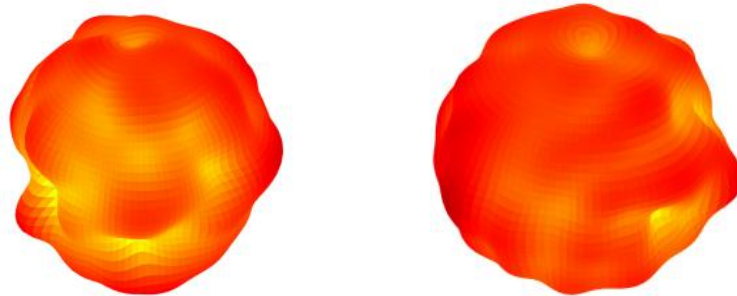
- 5150 MHz



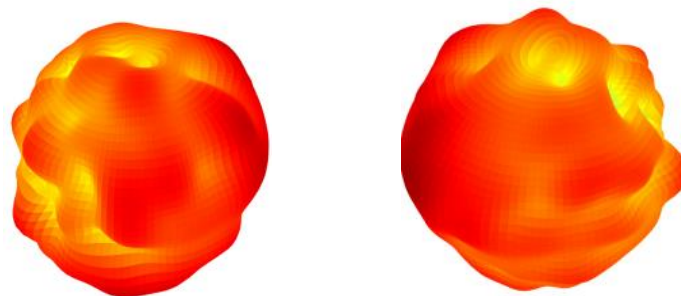
- 5450 MHz



- 5850 MHz



- 5925 MHz

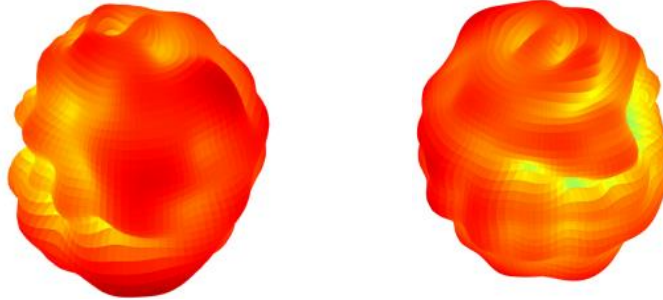




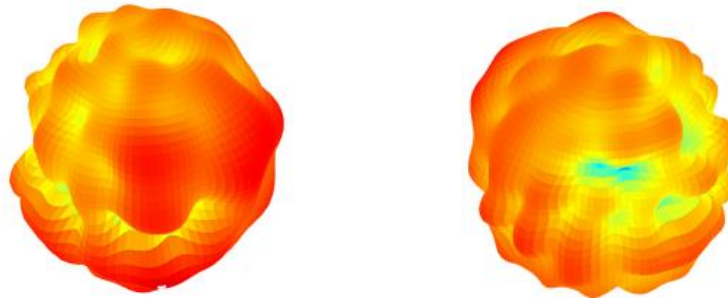
ZEBRA

Zebra Technologies Corporation

- 6525 MHz



- 7125 MHz





Antenna 7 Structure	
Frequency Range	2400-2500MHz, 5150-5850MHz and 5925-7125MHz
Impedance	50 ohm
Antenna type	PIFA
Manufacturing Process	LDS

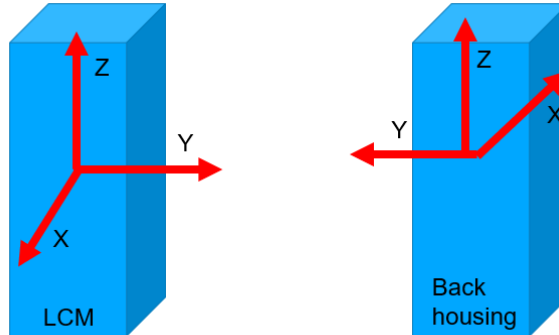
Antenna Ant-7 Peak Gain

Gun SKU	
Frequency (MHz)	Peak gain (dBi)
2400	1.39
2450	1.20
2500	0.89
5150	0.91
5250	1.01
5350	1.60
5450	1.79
5550	1.27
5650	1.76
5750	1.80
5850	1.79
5925	1.51
6425	1.53
6525	1.51
6875	1.22
7125	1.16

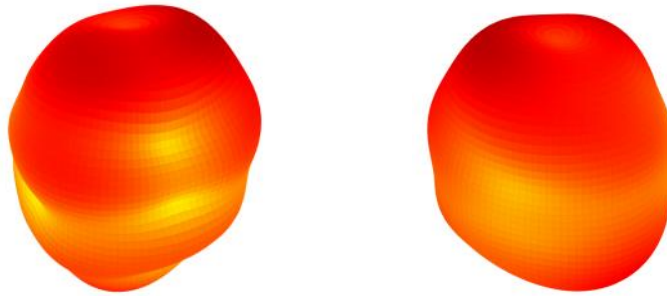


Antenna Radiation Patterns

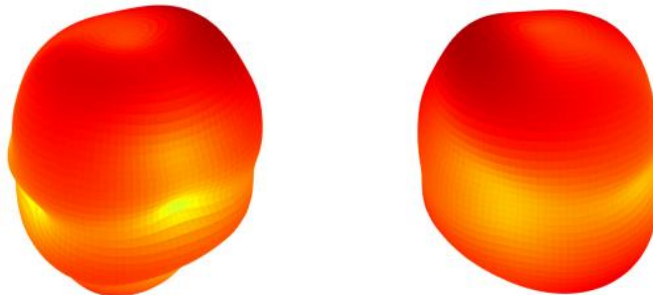
DUT Axis Reference



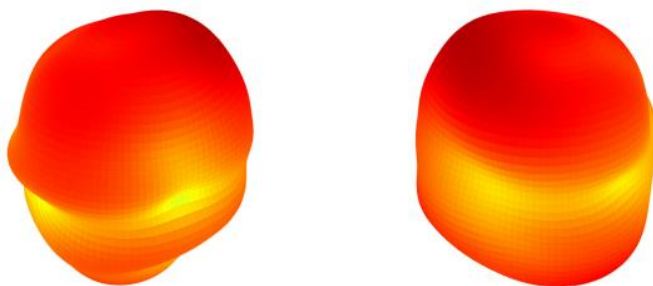
- 2400 MHz



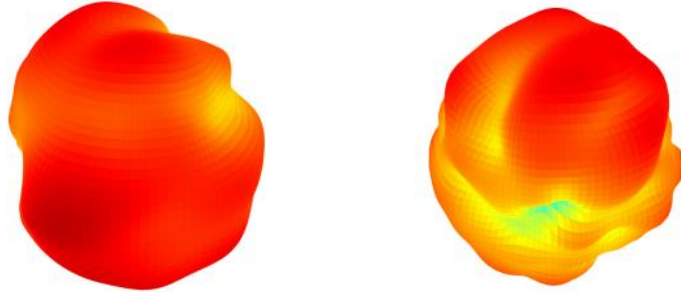
- 2450 MHz



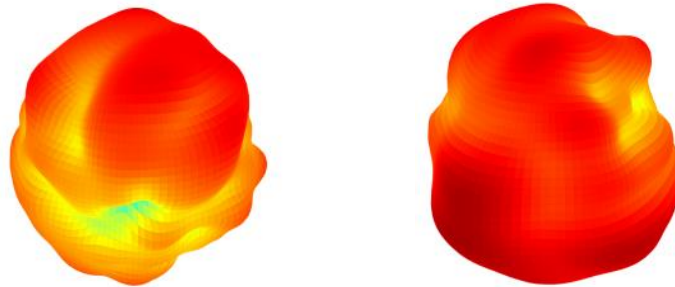
- 2500 MHz



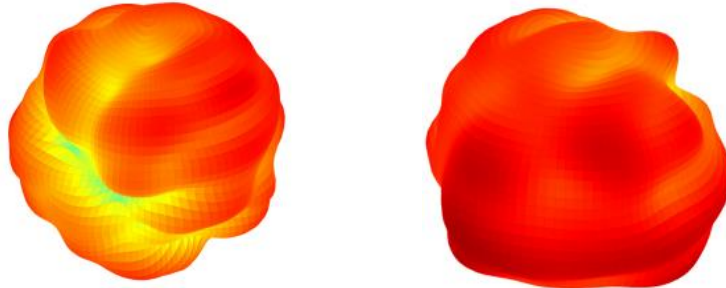
- 5150 MHz



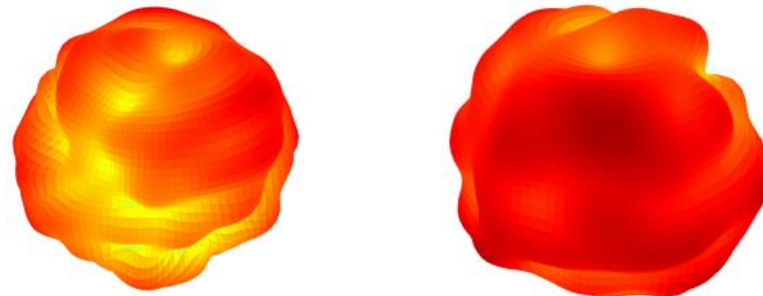
- 5450 MHz



- 5850 MHz



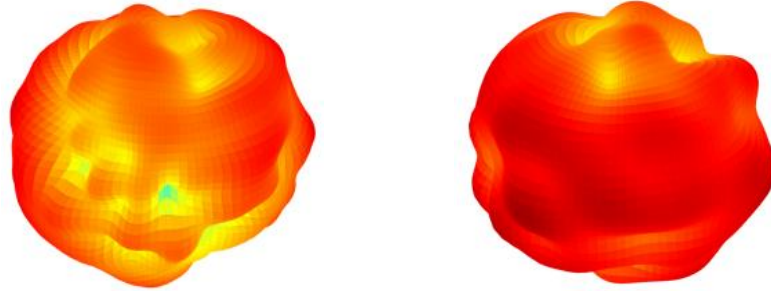
- 5925 MHz





ZEBRA

- 6525 MHz



- 7125 MHz



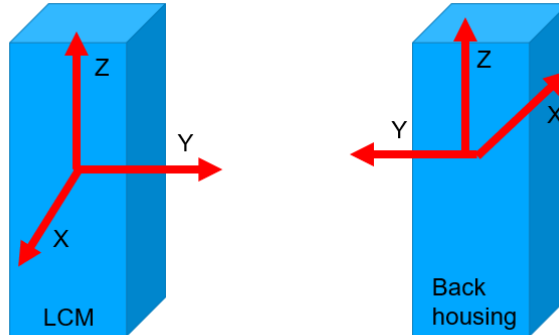
Antenna Ant-7 Peak Gain

Brick SKU	
Frequency (MHz)	Peak gain (dBi)
2400	1.69
2450	1.49
2500	1.33
5150	0.69
5250	0.64
5350	1.23
5450	1.60
5550	1.45
5650	1.55
5750	1.50
5850	1.36
5925	1.39
6425	1.60
6525	1.49
6875	0.82
7125	0.49

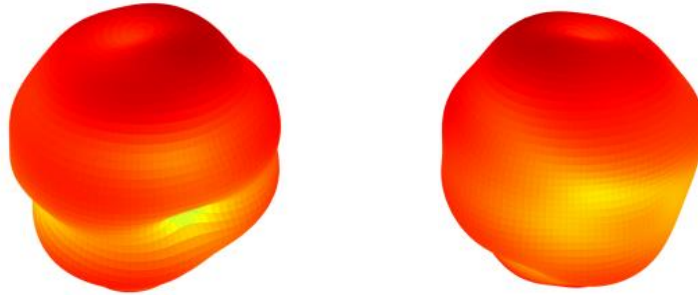


Antenna Radiation Patterns

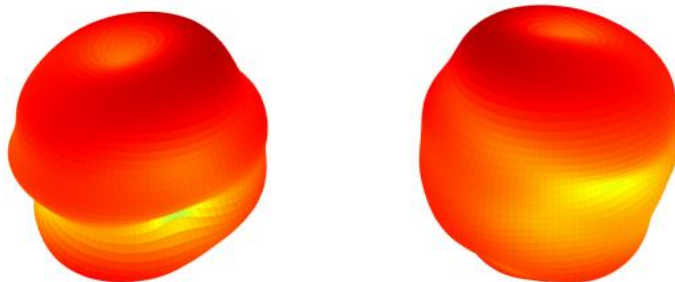
DUT Axis Reference



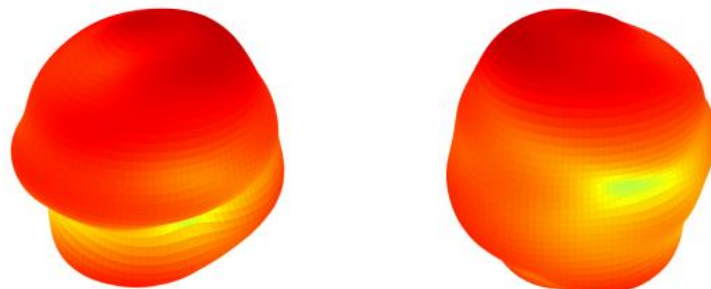
- 2400 MHz



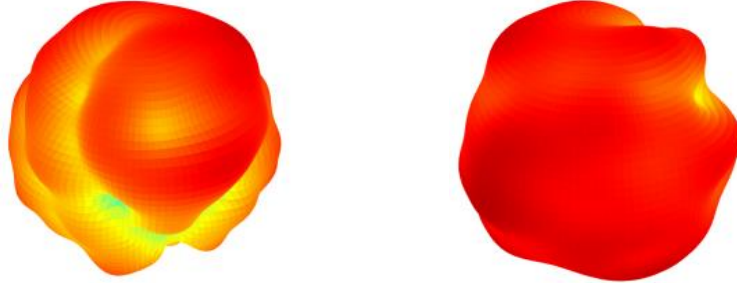
- 2450 MHz



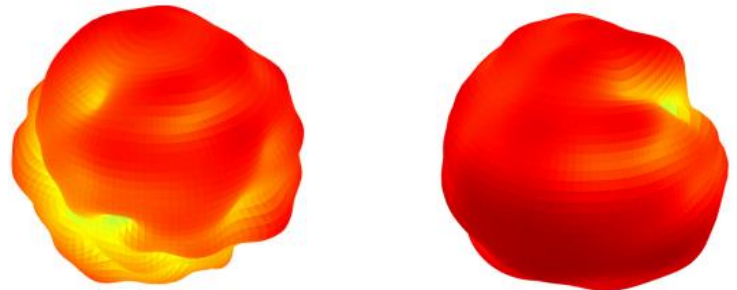
- 2500 MHz



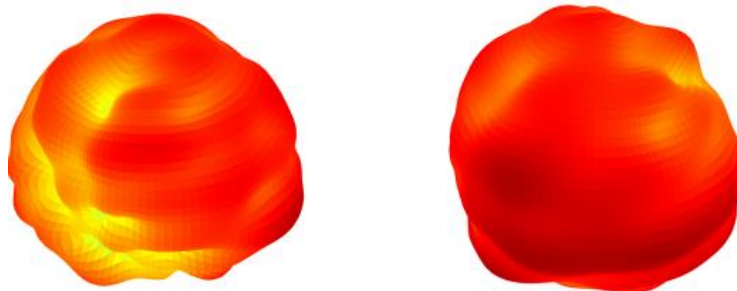
- 5150 MHz



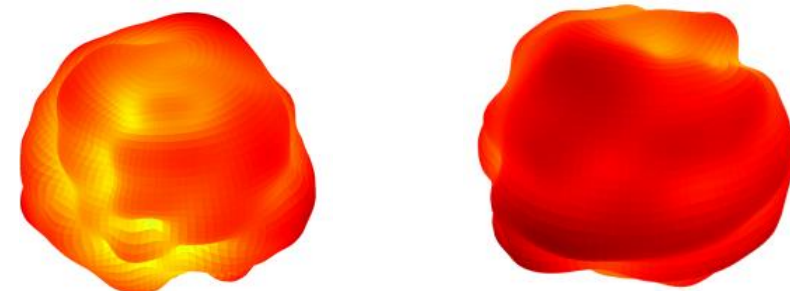
- 5450 MHz



- 5850 MHz



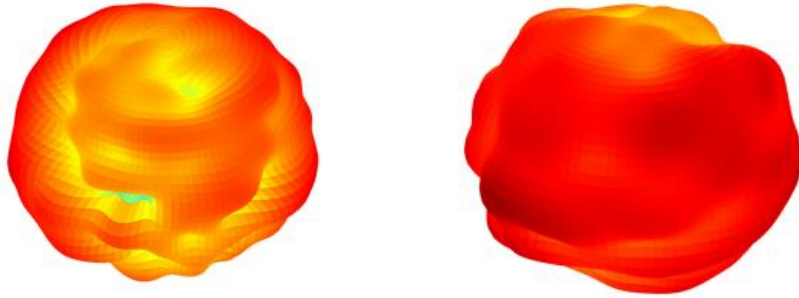
- 5925 MHz



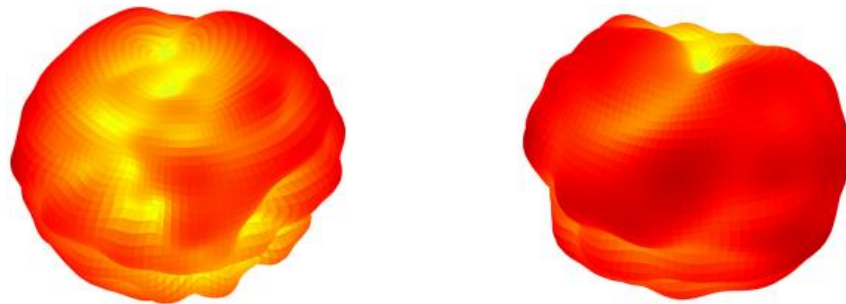


ZEBRA

- 6525 MHz



- 7125 MHz





NFC Antenna

FPCB Dimensions

