

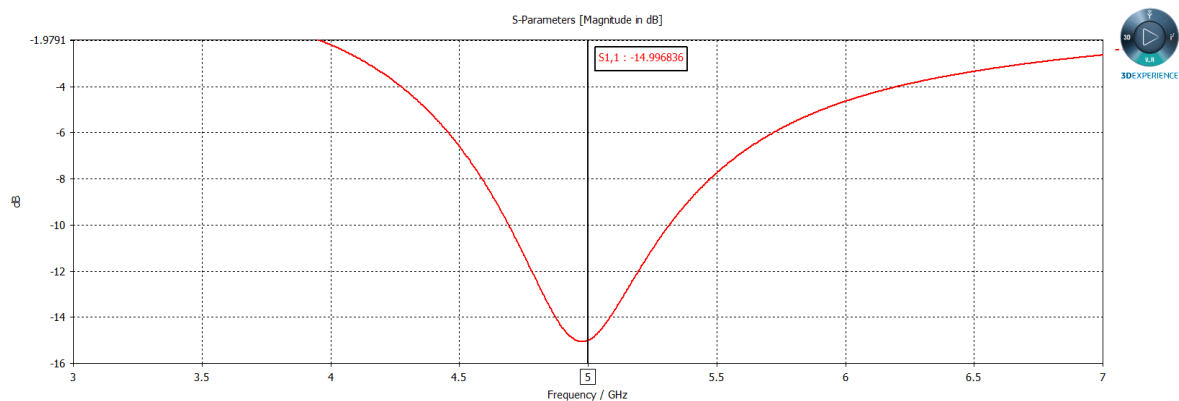
電磁波與天線導論HW13

Name : 郭忠翔

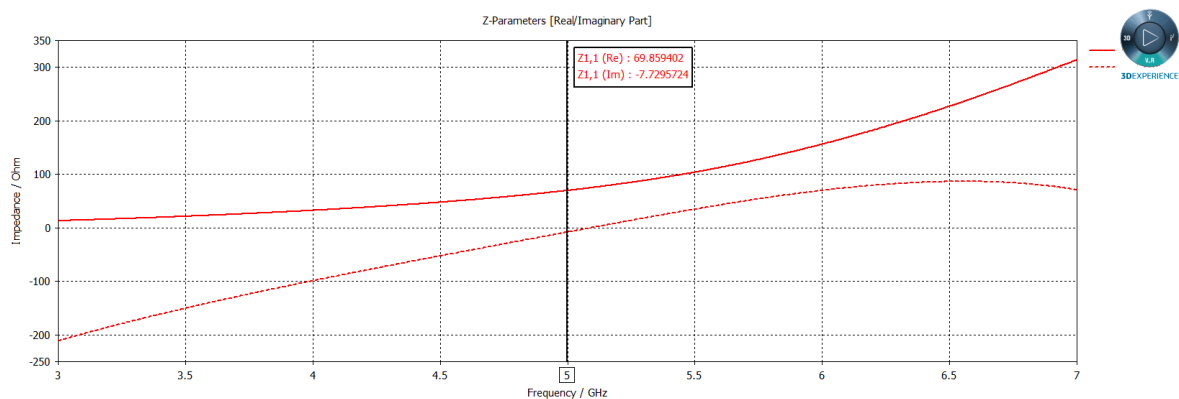
ID : R10522845

(a) reflection coefficient spectrum and input impedance

reflection coefficient

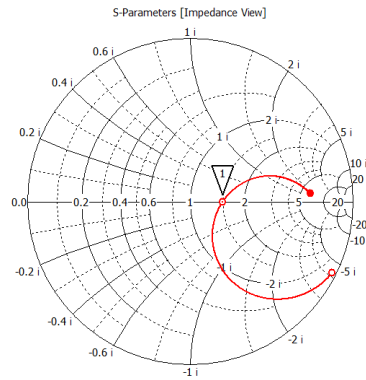


input impedance



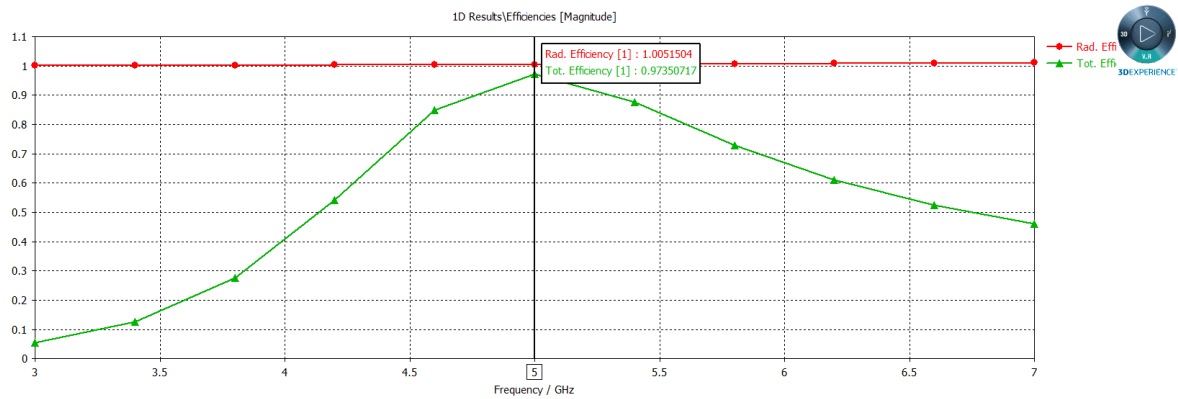
(b) Smith Chart

○ 3 (13.4, -211) Ohm
● 7 (316, 70.6) Ohm
Frequency / GHz

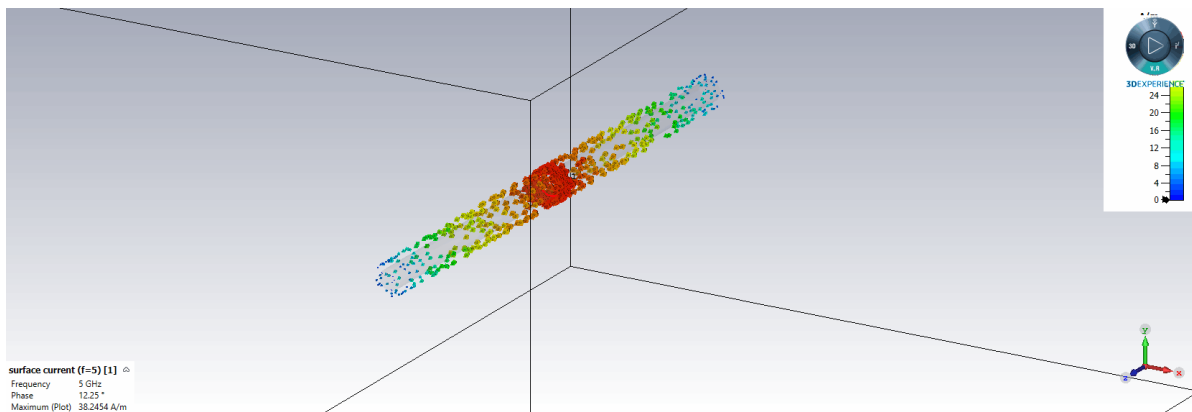


Q 5.083277 (74.800435, -0.003838) Ohm

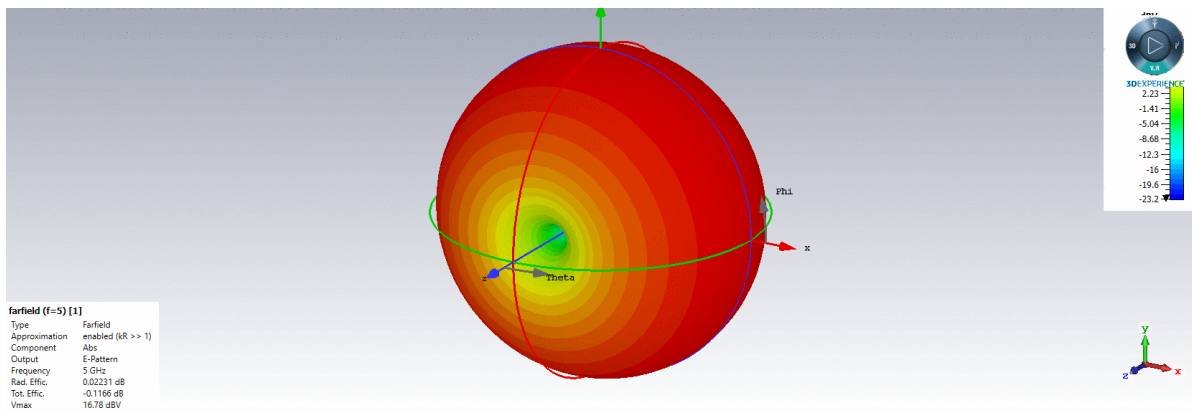
(c) broadband radiation efficiency and total efficiency



(d) surface current

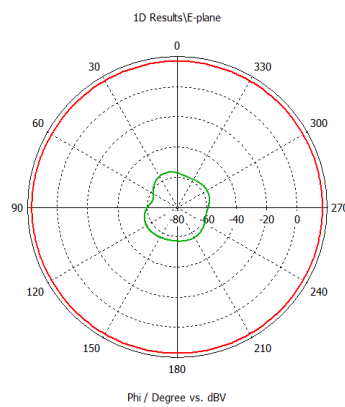


(e) 3D radiation pattern

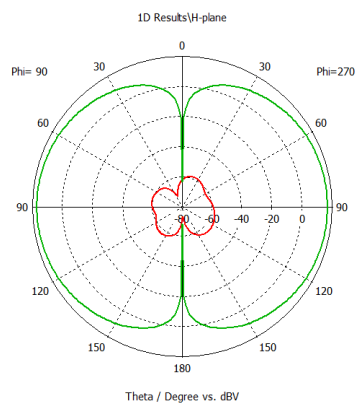


(f) radiation pattern

E-plane

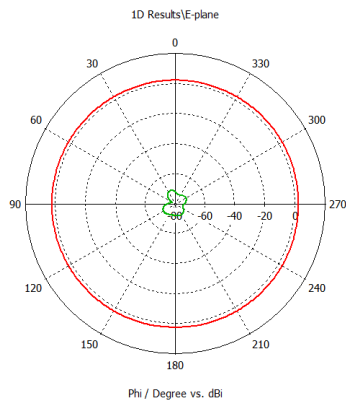


H-plane

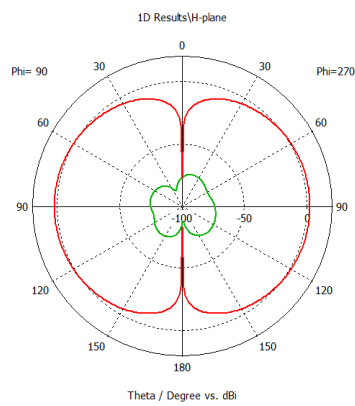


(g) directivity

E-plane

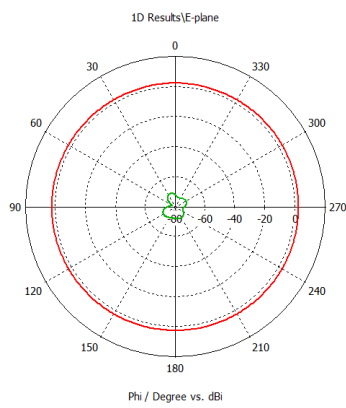


H-plane



(h) gain

E-plane



H-plane

