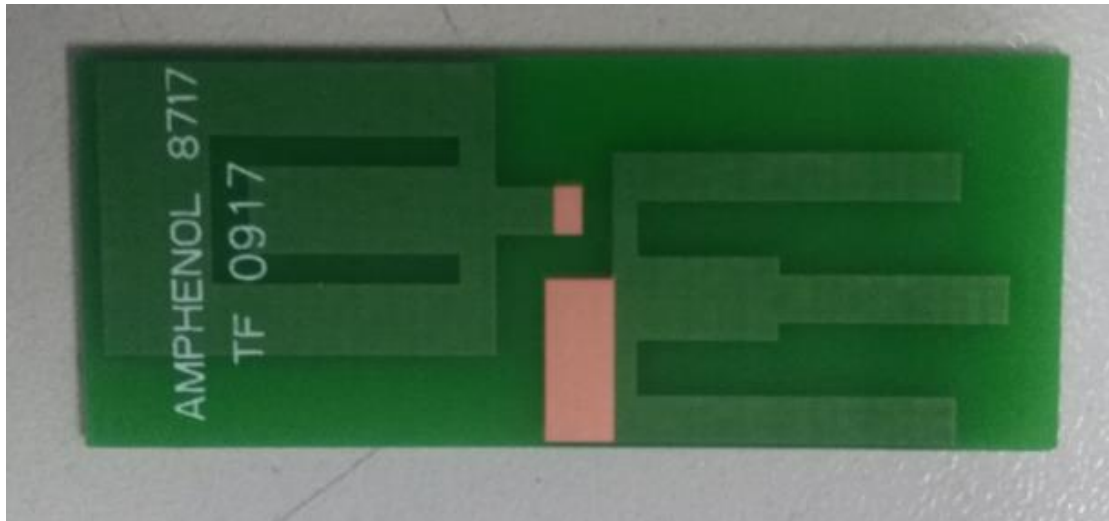


**Amphenol PCB antenna model 8117.**

RF EQUIP, ANTENNA, Internal 802.11 a/b/g/n/ac Dual-band

| Frequency (MHz) | Gain- Antenna #1 | Gain- Antenna #2 |
|-----------------|------------------|------------------|
| 2400            | 2.34             | 4.95             |
| 2410            | 2.40             | 5.32             |
| 2420            | 3.70             | 5.74             |
| 2430            | 4.16             | 5.96             |
| 2440            | 4.25             | 6.02             |
| 2450            | 4.33             | 5.98             |
| 2460            | 4.44             | 5.41             |
| 2470            | 4.89             | 5.52             |
| 2480            | 5.61             | 5.69             |
| 2490            | 5.88             | 5.77             |
| 2500            | 5.57             | 5.52             |
| 5150            | 4.29             | 5.28             |
| 5200            | 3.59             | 5.53             |
| 5250            | 4.25             | 5.25             |
| 5300            | 3.06             | 5.52             |
| 5350            | 2.67             | 6.48             |
| 5400            | 2.88             | 7.38             |
| 5450            | 3.96             | 7.91             |
| 5500            | 3.51             | 6.17             |
| 5550            | 3.35             | 5.71             |
| 5600            | 3.04             | 4.92             |
| 5650            | 4.17             | 4.84             |
| 5700            | 4.11             | 5.38             |
| 5750            | 3.43             | 4.54             |
| 5800            | 3.14             | 5.22             |
| 5850            | 4.48             | 4.94             |



Antenna 1 is same as antenna 2.

Antenna #2 has more gain compared to antenna #1 due their orientation. Antenna #2 is placed vertically while the antenna #1 is placed horizontally.