

## Antenna debugging report

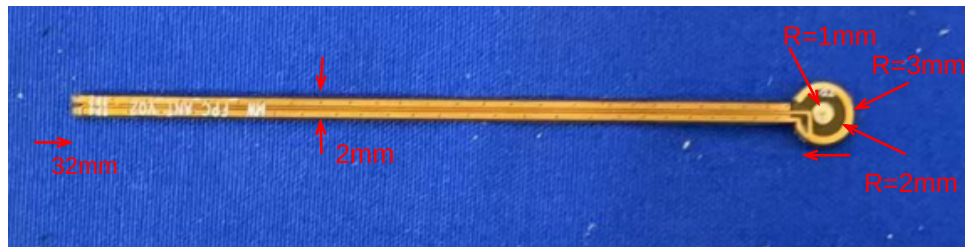


## 1.Introduction to project debugging

|                             |                                             |           |          |          |
|-----------------------------|---------------------------------------------|-----------|----------|----------|
| machine<br>description:     | Bluetooth 5.3 Smart Food Thermometer        |           |          |          |
| Main board<br>model:        |                                             |           |          |          |
| antenna material            |                                             | frequency |          | material |
|                             | ANT                                         | BT        | 2.412GHz |          |
| Performance<br>requirements | PExecute according to customer requirements |           |          |          |

Manufacture:Foner Technology Co.,Ltd.

| Channel No. | Free space test data |           |
|-------------|----------------------|-----------|
|             | TRP (dBm)            | TIS (dBm) |
| 0           | -3.31                | -76.42    |
| 39          | -3.54                | -76.57    |
| 78          | -3.63                | -76.66    |



# Free space test data

| Test Point ID  | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Freq. (MHz)    | 2400.0 | 2410.0 | 2420.0 | 2430.0 | 2440.0 | 2450.0 | 2460.0 | 2470.0 | 2480.0 | 2490.0 | 2500.0 |
| Efficiency (%) | 16.2   | 18.5   | 19.31  | 21.20  | 24.6   | 25.1   | 26.8   | 24.2   | 22.7   | 21.2   | 18.5   |
| Gain (dbi)     | 0.58   | 0.79   | 0.67   | 1.41   | 1.75   | 2.06   | 2.03   | 2.37   | 1.88   | 1.52   | 0.73   |

