

Model Name: Omic TX

Frequency: (2402~2480MHz)

Manufacture: Shenzhen Jiayz photo industrial ., Ltd

Address: A16 Building, Intelligent Terminal Industrial Park of Silicon Valley Power, Guanlan, Longhua District, Shenzhen, China

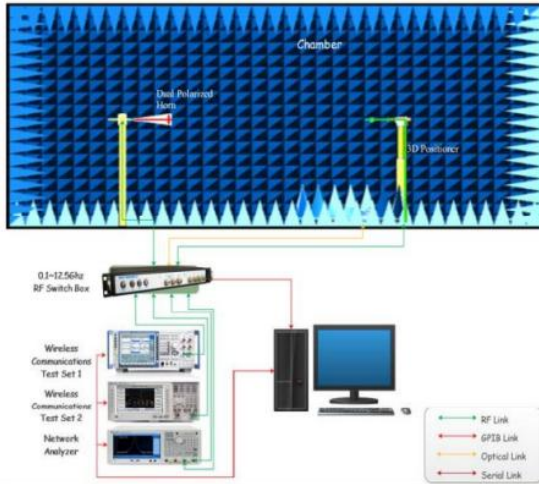
## Antenna matching report

| DIRECTORY |                               |
|-----------|-------------------------------|
| NO        | PROJECT                       |
| 1         | Test equipment and conditions |
| 2         | Match parameters              |
| 3         | Antenna S parameter           |
| 4         | Passive data                  |

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# Antenna matching report

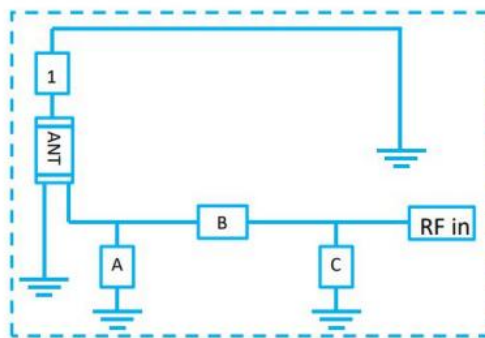
## 1. Test equipment and conditions



| QUIPMENT         | BRAND         | MODULE  |
|------------------|---------------|---------|
| Network analyzer | Agilent       | E5071C  |
| Signal Generator | ROHDE&SCHWARZ | CMW-500 |
| Switch           | 广屏            | SW-2    |
| 微波暗室             | 广屏            | OTA-533 |

# Antenna matching report

## 2. Match parameters



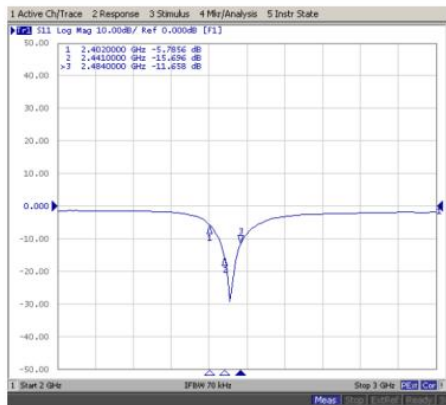
3216 Chip Antenna

| NO | Product   | Description           |
|----|-----------|-----------------------|
| 1  | Capacitor | 0402 1.5nH 0.1nH 50V  |
| A  | Capacitor | NC                    |
| B  | Resistor  | 0402 1.2pF ±0.1pF 50V |
| C  | NC        | NC                    |

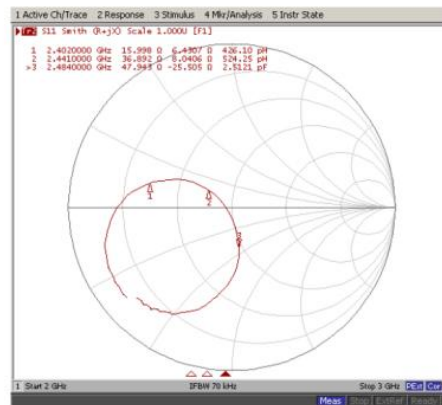
# Antenna matching report

## 3. Antenna S parameter

### Return Loss

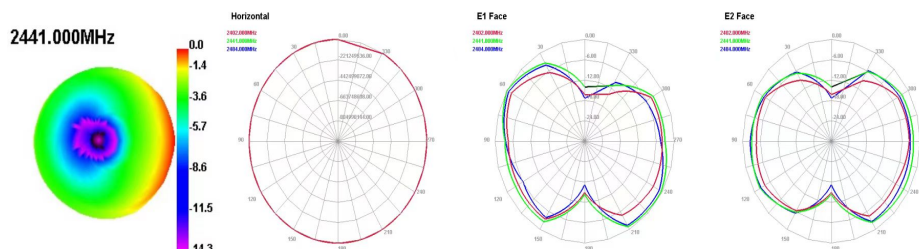


### Smith (R-jx)



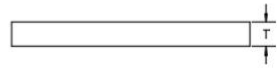
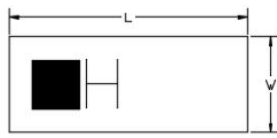
# Antenna matching report

## 4. Passive data



| Frequency  | Efficiency (%) | Efficiency (db) | Gain  |
|------------|----------------|-----------------|-------|
| 2402 (MHz) | 35.32          | -4.52           | -1.66 |
| 2441 (MHz) | 53.25          | -2.74           | 0.02  |
| 2484 (MHz) | 44.75          | -3.49           | -0.64 |

## Dimension and Terminal Configuration



| Dimension (mm) |                |
|----------------|----------------|
| L              | $5.0 \pm 0.15$ |
| W              | $2.0 \pm 0.15$ |
| T              | $1.0 \pm 0.10$ |
| D              | $0.6 \pm 0.15$ |

| No. | Terminal Name |
|-----|---------------|
| 1   | Feeding       |
| 2   | Ground        |

