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## SDR Antenna Datasheet

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## 1.UAV SDR Antenna0 & Antenna1

### 1.1 Basic Specifications

| No. | Specification | Descriptions                                              | Notes                                                                                           |
|-----|---------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1   | Antenna Name  | SDR Antenna 0/1                                           |                                                                                                 |
| 2   | Manufacturer  | Kunshan Innowave<br>Communication<br>Technology Co., Ltd. | Address: No.<br>1689 Zizhu Road,<br>Yushan Town,<br>Kunshan City,<br>Jiangsu Province,<br>China |
| 3   | Operation     | 2.4~2.483GHz;<br>5.15~5.25GHz;                            |                                                                                                 |

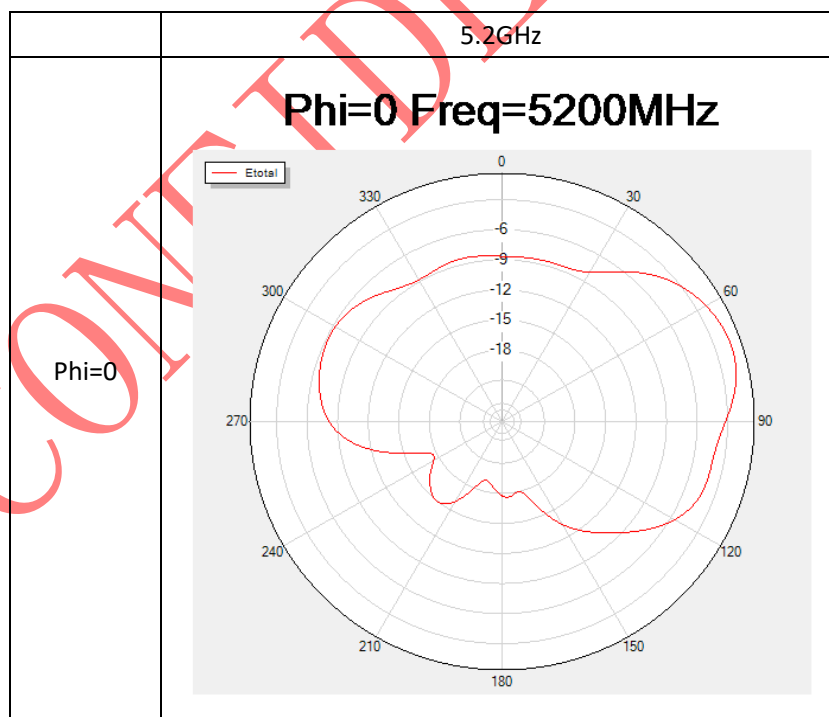


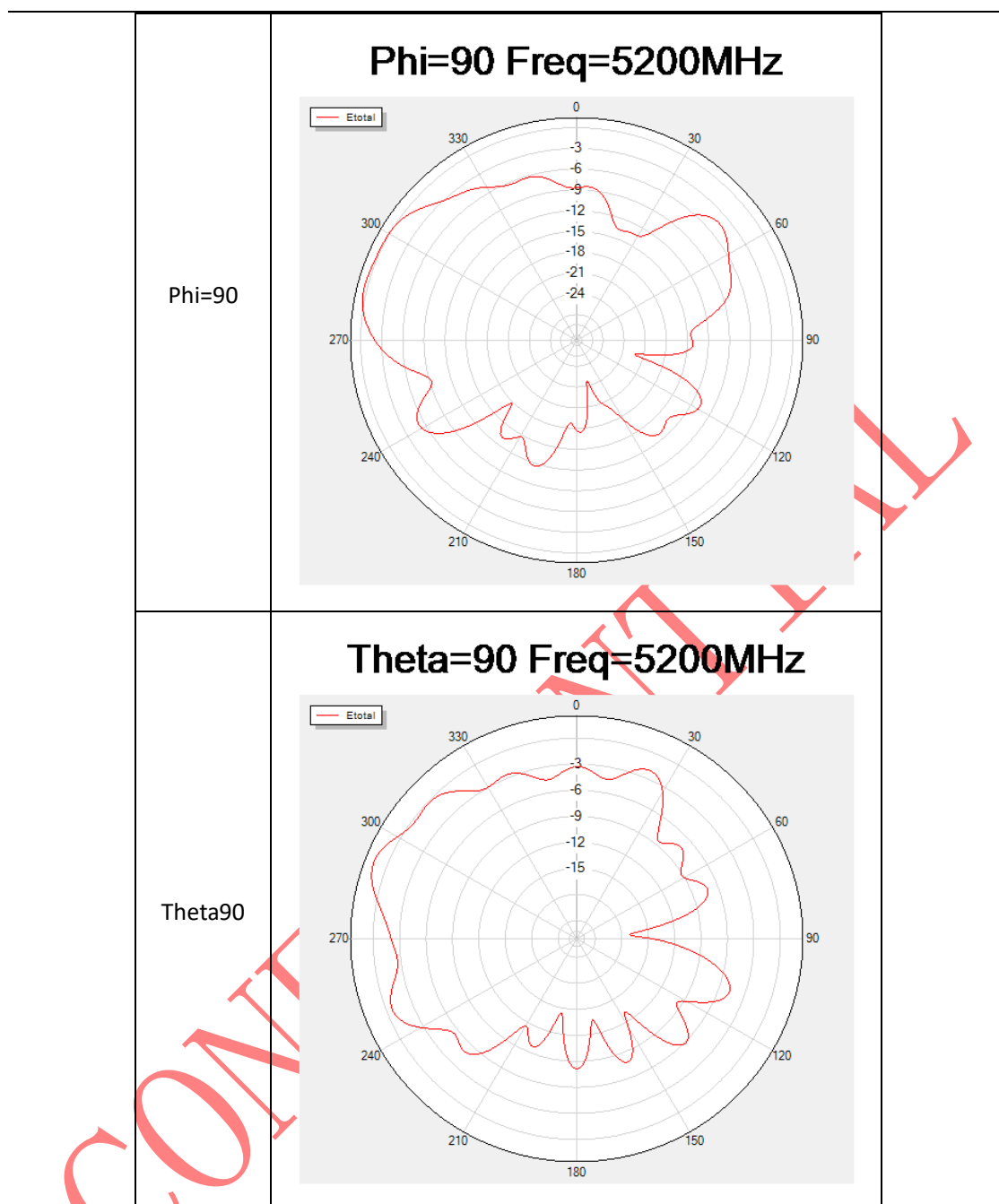
|    |                |                                                                   |  |
|----|----------------|-------------------------------------------------------------------|--|
|    | Frequency      | 5.725~5.875GHz                                                    |  |
| 4  | Connector Type | IpxeI                                                             |  |
| 5  | Impedance      | 50ohm                                                             |  |
| 6  | Gain (MAX)     | 4dBi@2.4~2.483GHz<br>2.5dBi@5.15~5.25GHz<br>4.8dBi@5.725~5.875GHz |  |
| 7  | Efficiency     | ≥40%                                                              |  |
| 8  | VSWR           | ≤2                                                                |  |
| 9  | Antenna Type   | Linear polarization Dipole                                        |  |
| 10 | 3dB Beamwidth  | Omnidirectional horizon                                           |  |
| 11 | Weight         | 1.7g                                                              |  |

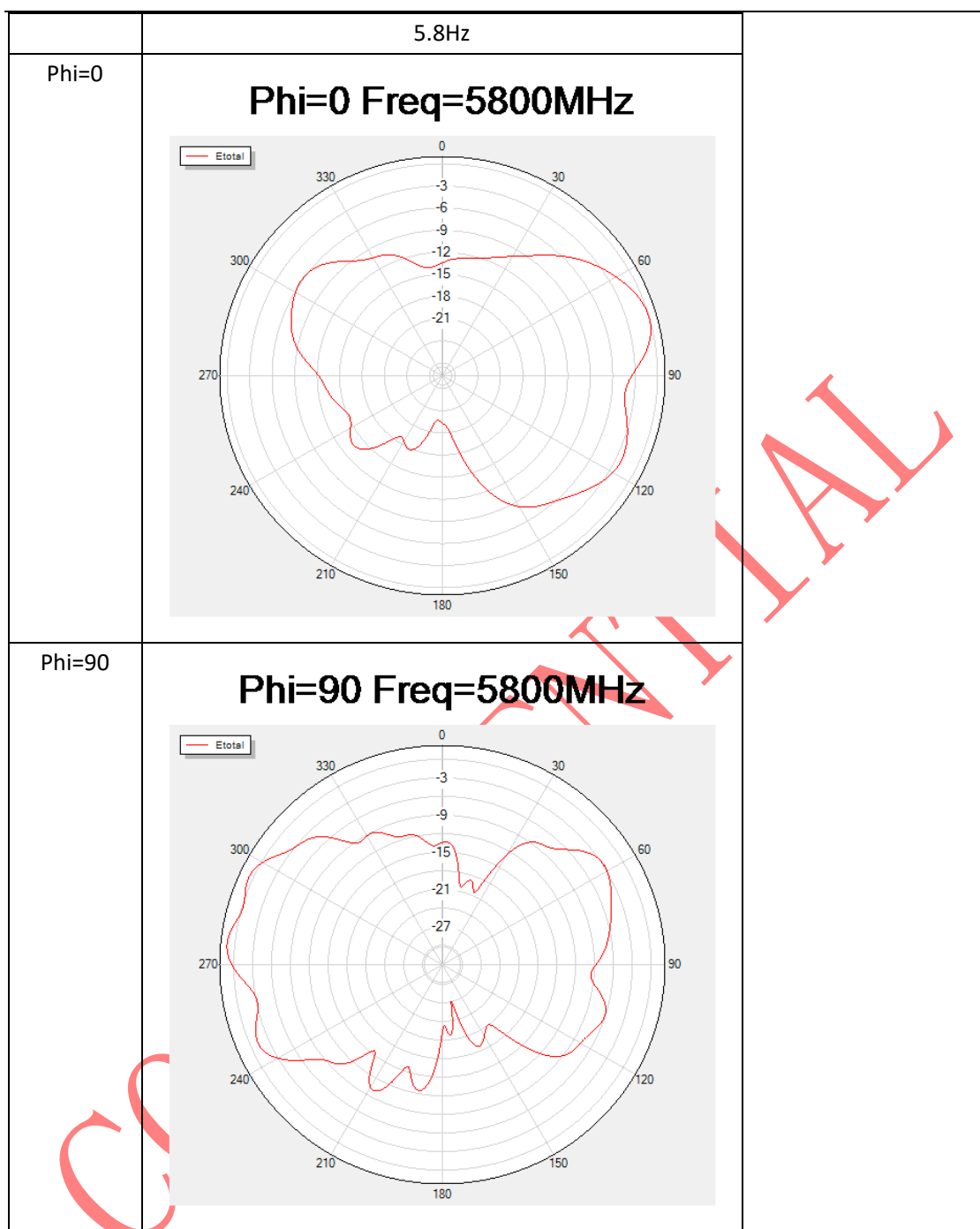
## 1.2 Gain

| Frequency | E Total. dB(dB)<br>-Ant0 | E Total. dB(dB)-<br>Ant1 |
|-----------|--------------------------|--------------------------|
| 2400MHz   | 4.0                      | 4.0                      |
| 2440MHz   | 3.9                      | 3.9                      |
| 2480MHz   | 3.9                      | 3.9                      |
| 2500MHz   | 3.9                      | 3.9                      |
| 5150MHz   | 1.9                      | 1.9                      |
| 5200MHz   | 2.2                      | 2.2                      |
| 5250MHz   | 2.5                      | 2.5                      |
| 5700MHz   | 4.2                      | 4.2                      |
| 5750MHz   | 4.0                      | 4.0                      |
| 5800MHz   | 4.5                      | 4.5                      |
| 5850MHz   | 4.8                      | 4.8                      |

## 1.3 radiation pattern

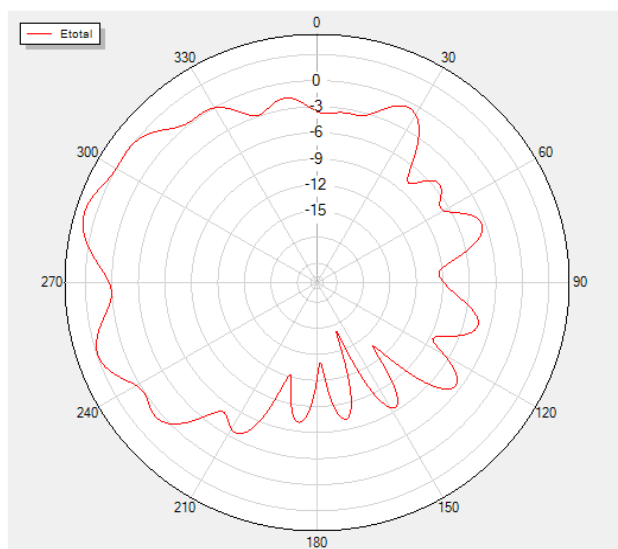




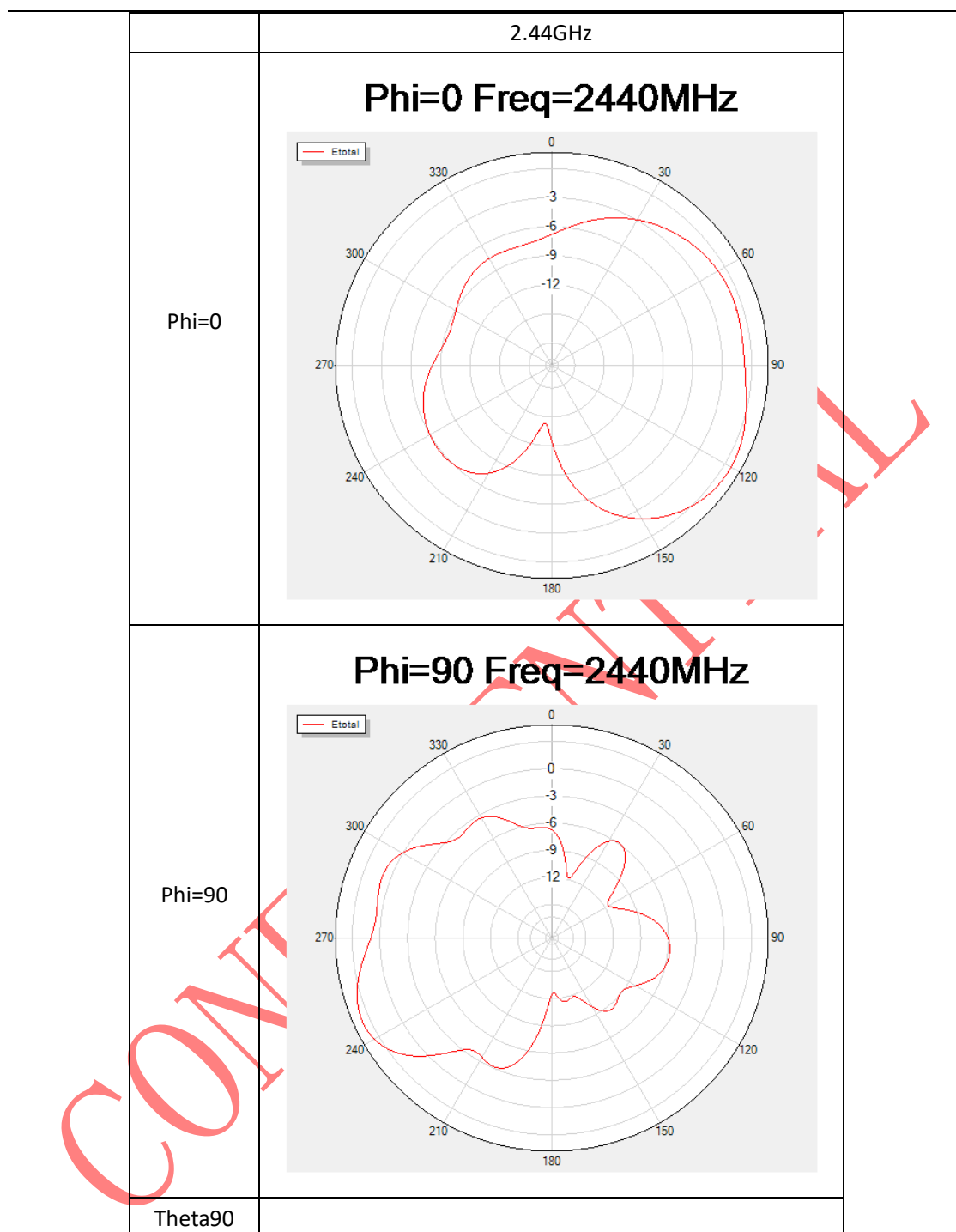


Theta90

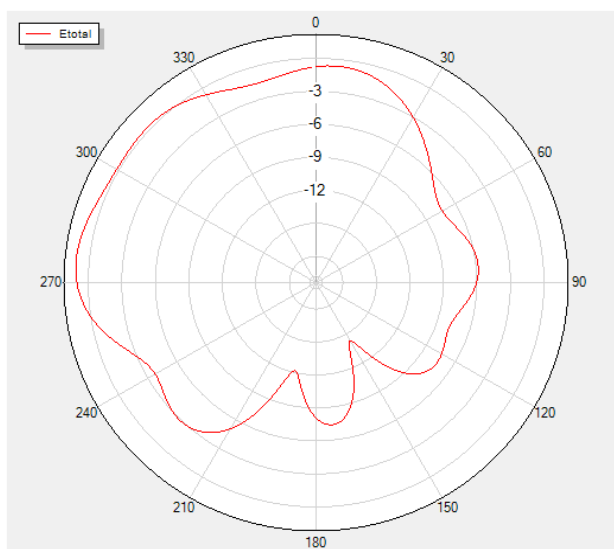
Theta=90 Freq=5800MHz



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**Theta=90 Freq=2440MHz**



## 1.4 Structure drawing

Ant0:

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Ant1:

## 2.UAV SDR Antenna2

### 2.1 Basic Specifications

| No. | Specification | Descriptions                                        | Notes                                                                      |
|-----|---------------|-----------------------------------------------------|----------------------------------------------------------------------------|
| 1   | Antenna Name  | SDR Antenna 2                                       |                                                                            |
| 2   | Manufacturer  | Kunshan Innowave Communication Technology Co., Ltd. | Address: No. 1689 Zizhu Road, Yushan Town, Kunshan City, Jiangsu Province, |



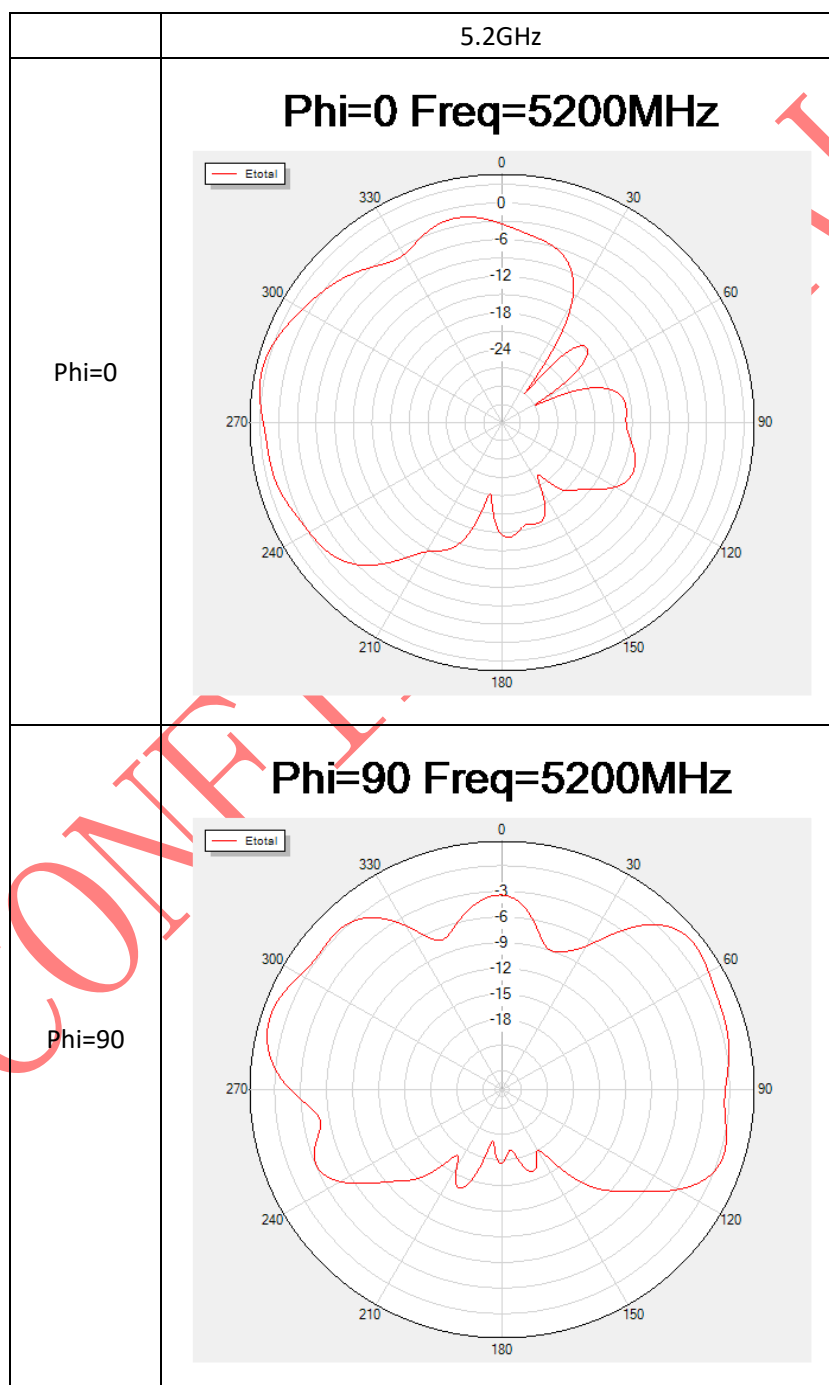
|    |                     |                                                                     |       |
|----|---------------------|---------------------------------------------------------------------|-------|
|    |                     |                                                                     | China |
| 3  | Operation Frequency | 2.4~2.483GHz;<br>5.15~5.25GHz;<br>5.725~5.875GHz                    |       |
| 4  | Connector Type      | IpexI                                                               |       |
| 5  | Impedance           | 50ohm                                                               |       |
| 6  | Gain (MAX)          | 5.0dBi@2.4~2.483GHz<br>4.0dBi@5.15~5.25GHz<br>4.4dBi@5.725~5.875GHz |       |
| 7  | Efficiency          | $\geq 50\%$                                                         |       |
| 8  | VSWR                | $\leq 2$                                                            |       |
| 9  | Antenna Type        | Linear polarization Dipole                                          |       |
| 10 | 3dB Beamwidth       | Omnidirectional horizon                                             |       |
| 11 | Weight (with cable) | 1.73g                                                               |       |

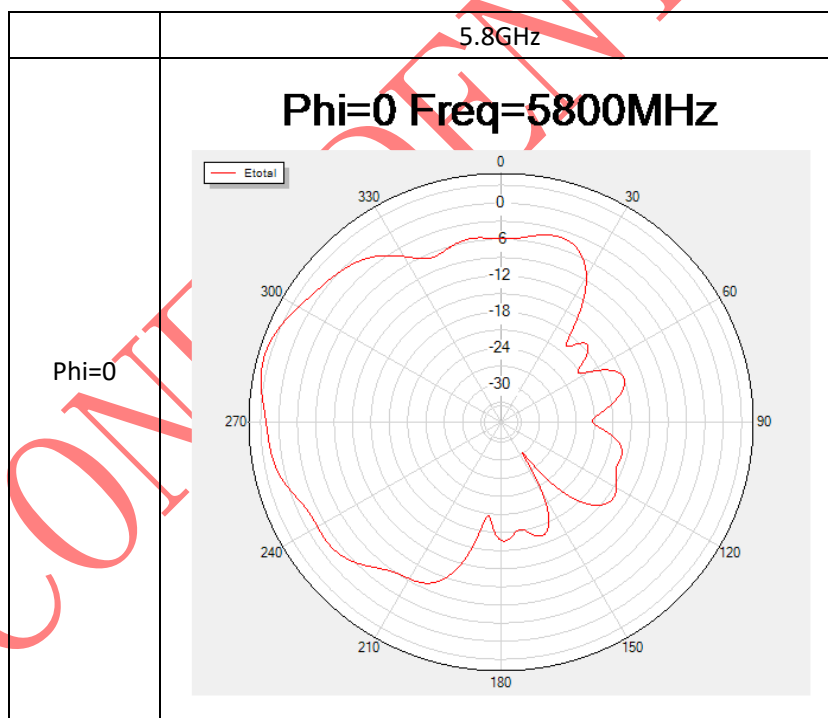
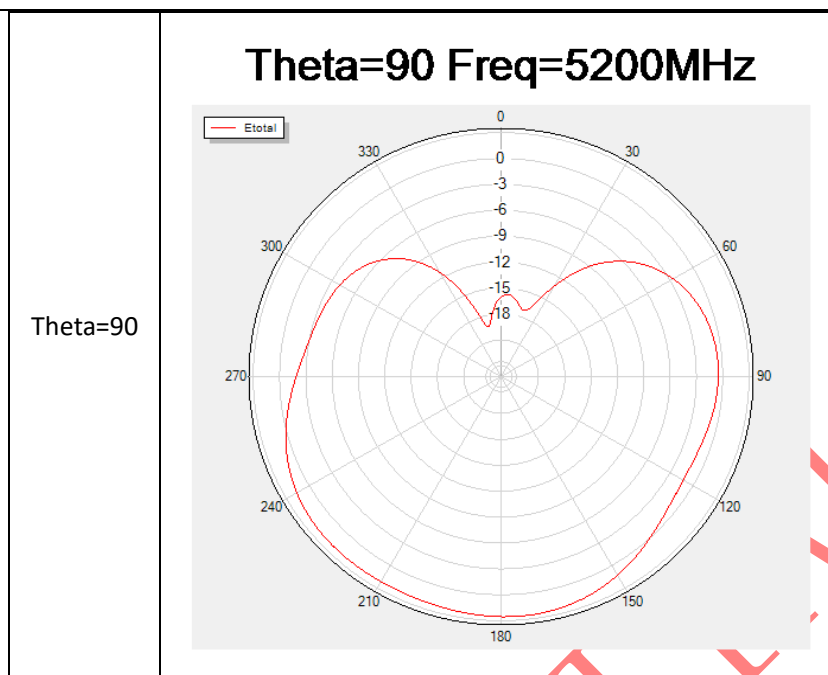
## 2.2 Gain

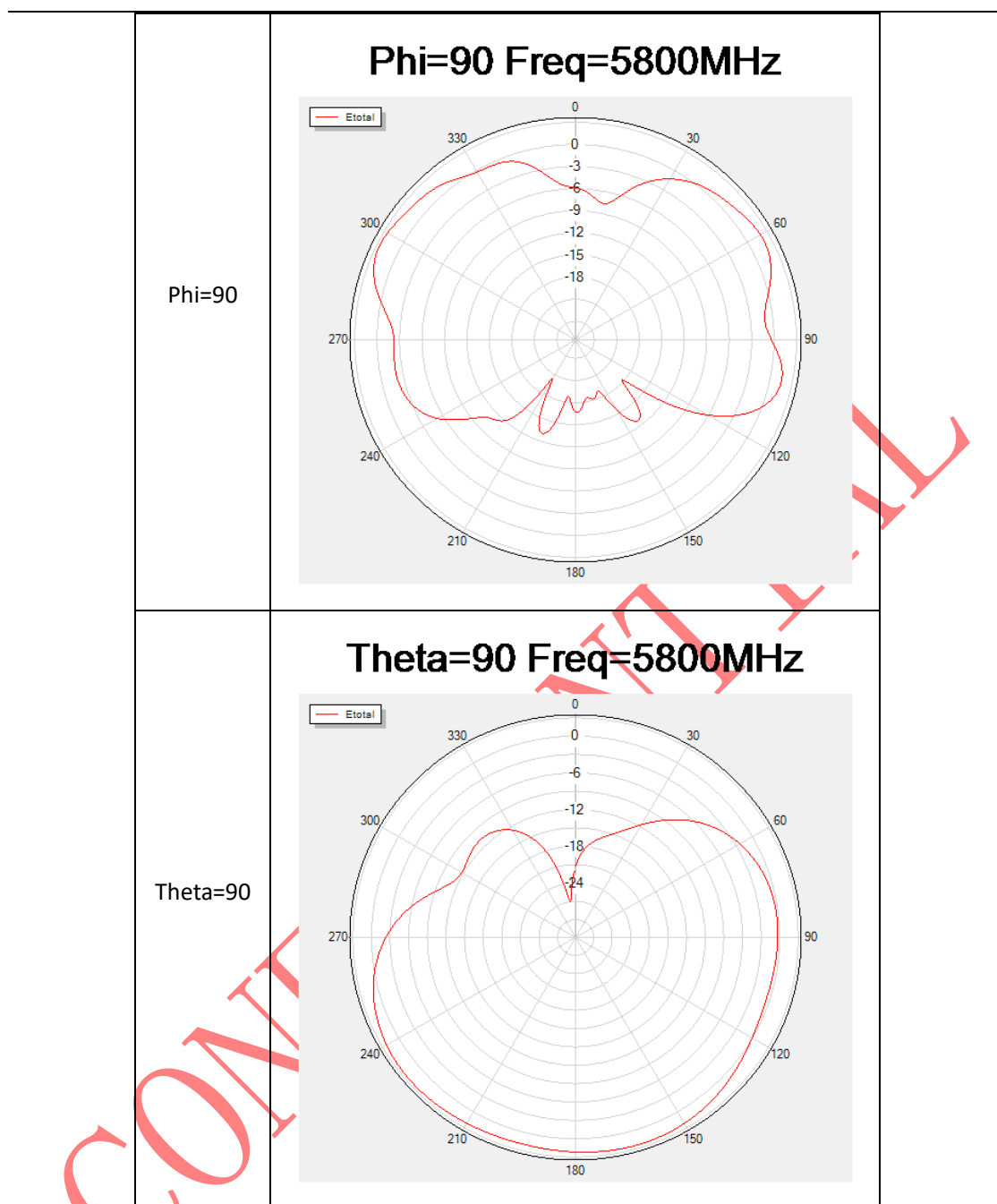
| Frequency | E Total. dB(dB)-<br>ANT2 |
|-----------|--------------------------|
| 2400MHz   | 4.0                      |
| 2440MHz   | 4.4                      |
| 2480MHz   | 5.0                      |
| 2500MHz   | 5.0                      |
| 5150MHz   | 4.0                      |
| 5200MHz   | 3.8                      |
| 5250MHz   | 3.7                      |
| 5700MHz   | 4.4                      |

|         |     |
|---------|-----|
| 5750MHz | 4.4 |
| 5800MHz | 4.3 |
| 5850MHz | 4.4 |

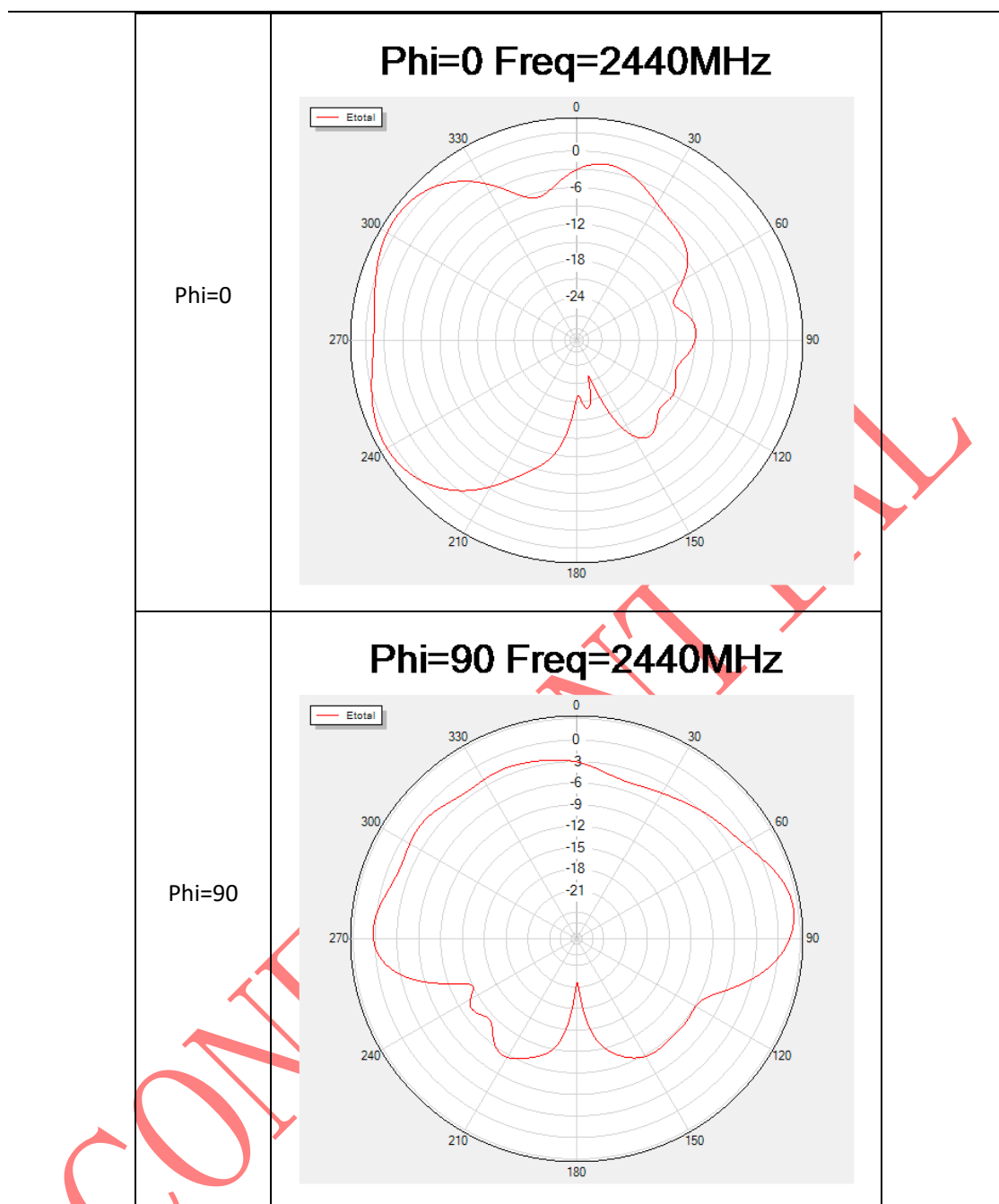
## 2.3 radiation pattern

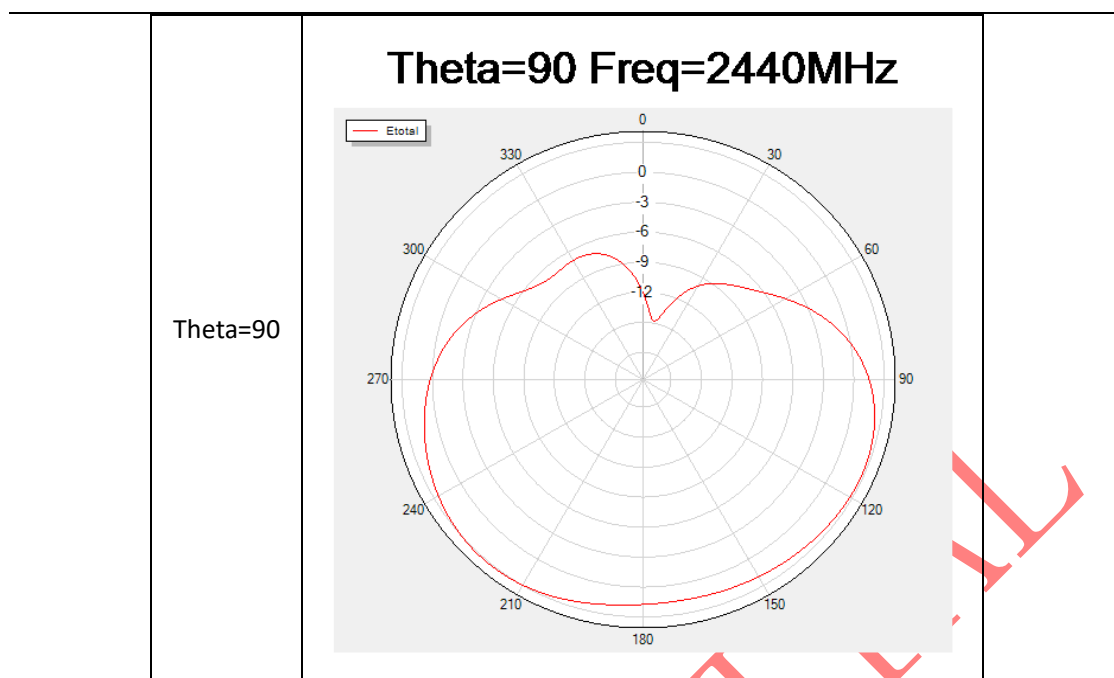






|  |        |
|--|--------|
|  | 2.4GHz |
|--|--------|





## 2.4 Structure drawing

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## 3.UAV SDR Antenna3

### 3.1 Basic Specifications

| No. | Specification       | Descriptions                                                        | Notes                                                                            |
|-----|---------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1   | Antenna Name        | SDR Antenna 3                                                       |                                                                                  |
| 2   | Manufacturer        | Kunshan Innowave Communication Technology Co., Ltd.                 | Address: No. 1689 Zizhu Road, Yushan Town, Kunshan City, Jiangsu Province, China |
| 3   | Operation Frequency | 2.4~2.483GHz;<br>5.15~5.25GHz;<br>5.725~5.875GHz                    |                                                                                  |
| 4   | Connector Type      | IpxeI                                                               |                                                                                  |
| 5   | Impedance           | 50ohm                                                               |                                                                                  |
| 6   | Gain (MAX)          | 4.5dBi@2.4~2.483GHz<br>4.5dBi@5.15~5.25GHz<br>4.8dBi@5.725~5.875GHz |                                                                                  |
| 7   | Efficiency          | $\geq 50\%$                                                         |                                                                                  |
| 8   | VSWR                | $\leq 2$                                                            |                                                                                  |
| 9   | Antenna Type        | Linear polarization Dipole                                          |                                                                                  |
| 10  | 3dB Beamwidth       | Omnidirectional horizon                                             |                                                                                  |



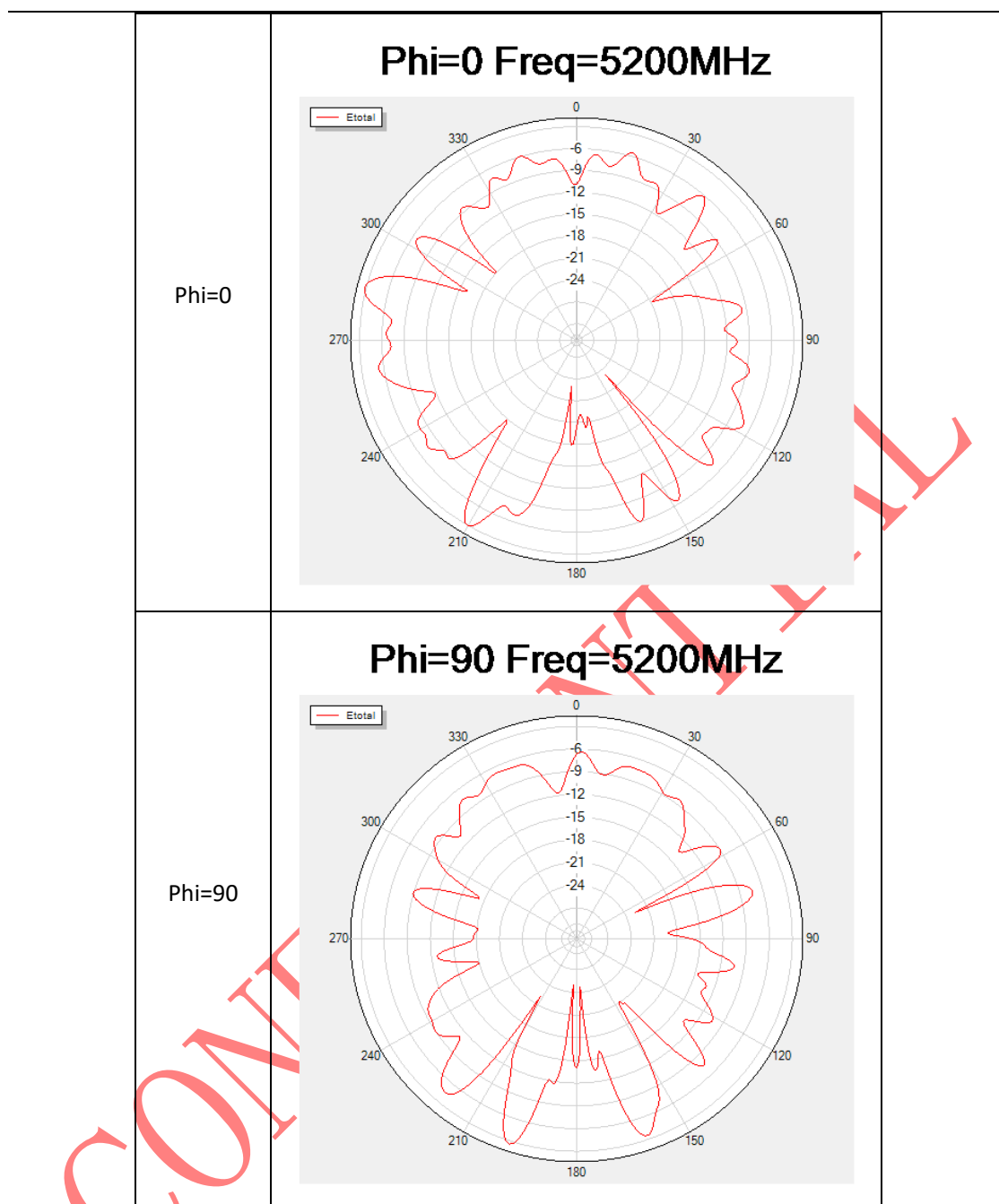
|    |                     |      |  |
|----|---------------------|------|--|
| 11 | Weight (with cable) | 2.3g |  |
|----|---------------------|------|--|

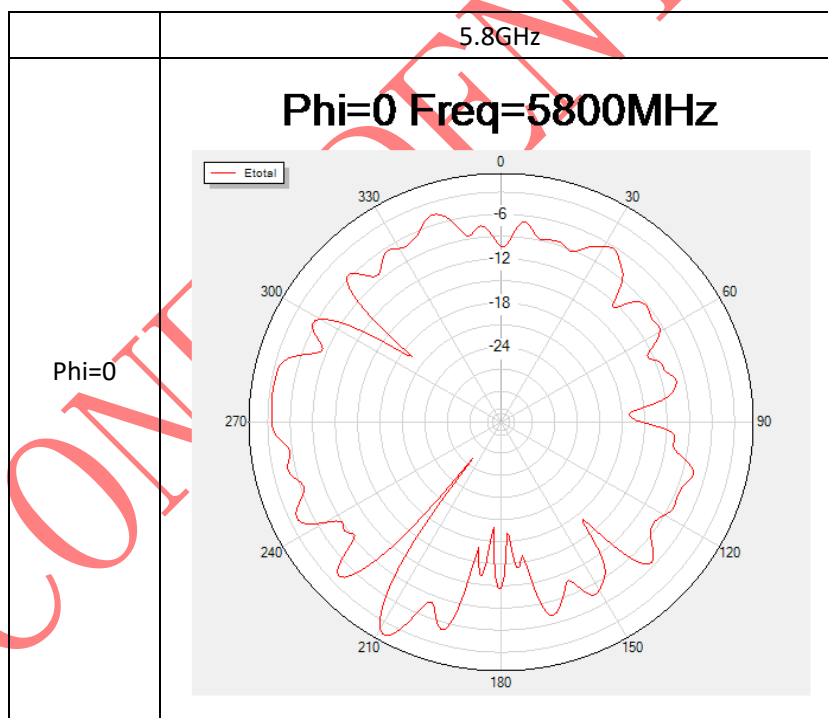
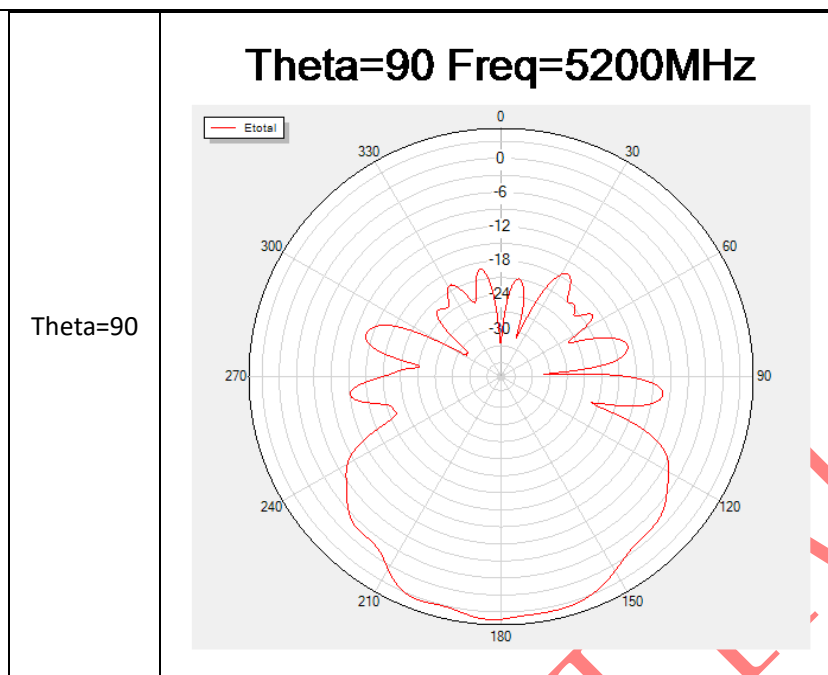
### 3.2 Gain

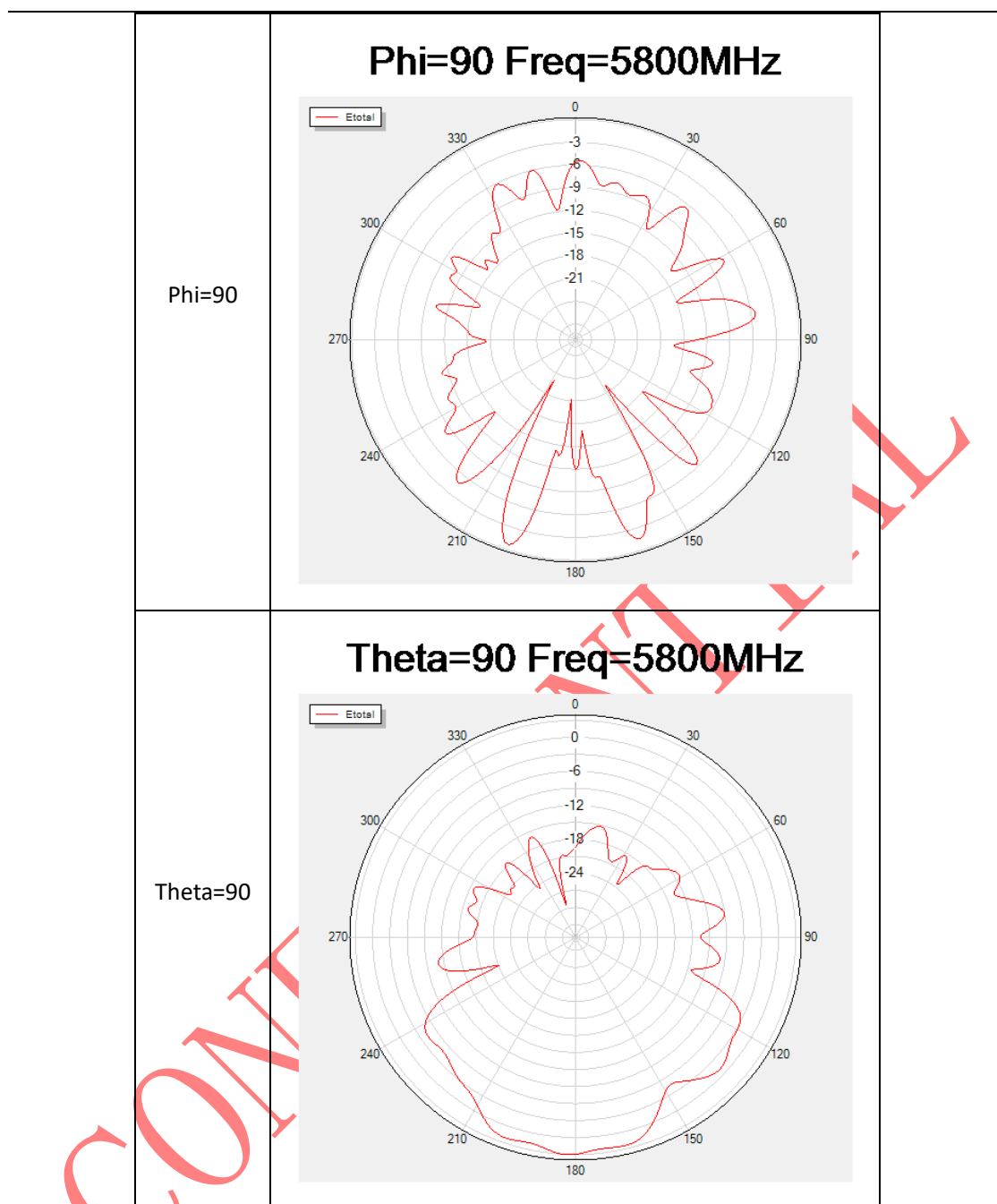
| Frequency | E Total. dB(dB)-ANT3 |
|-----------|----------------------|
| 2400MHz   | 4.5                  |
| 2440MHz   | 4.1                  |
| 2480MHz   | 3.9                  |
| 2500MHz   | 3.9                  |
| 5150MHz   | 4.5                  |
| 5200MHz   | 4.4                  |
| 5250MHz   | 4.4                  |
| 5700MHz   | 4.6                  |
| 5750MHz   | 4.1                  |
| 5800MHz   | 4.3                  |
| 5850MHz   | 4.8                  |

### 3.3 radiation pattern

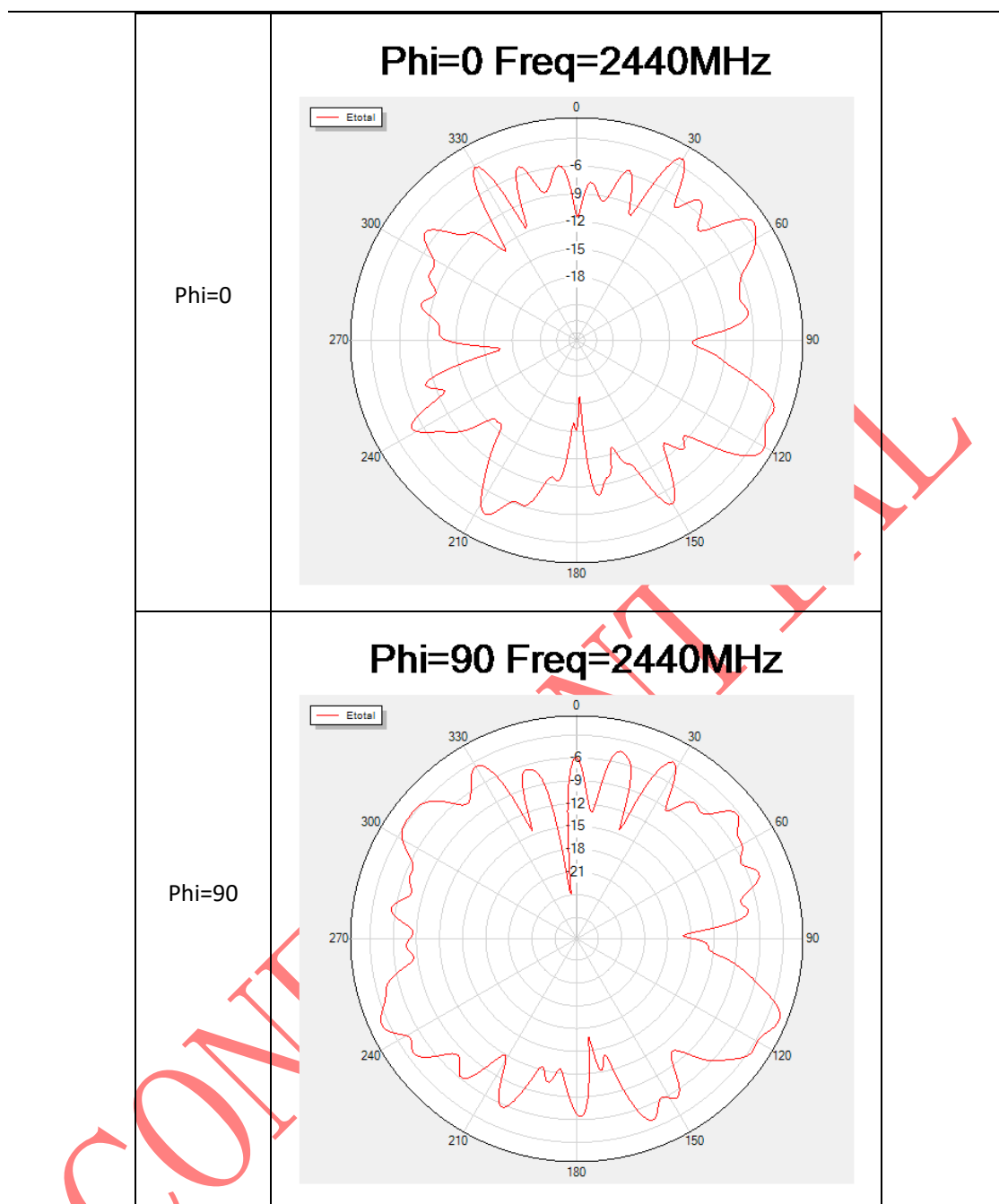
|  |        |
|--|--------|
|  | 5.2GHz |
|--|--------|

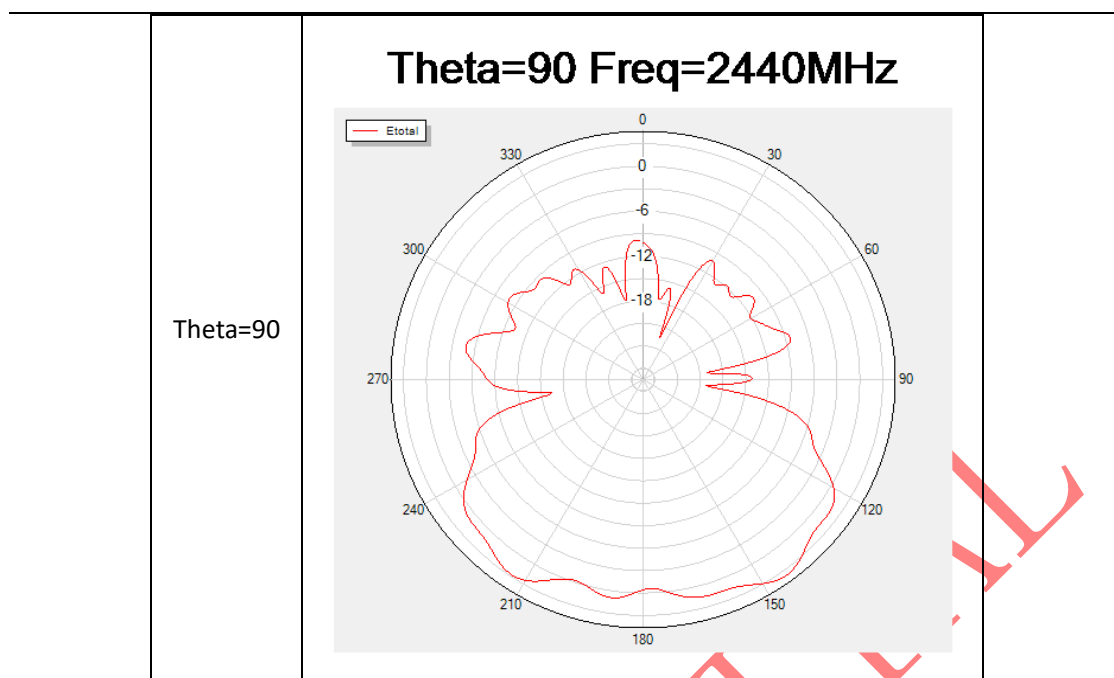






|  |        |
|--|--------|
|  | 2.4GHz |
|--|--------|





### 3.4 Structure drawing

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