

DJI Antenna Datasheet

HG330 SDR ANTENNA

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2021-6-16

## Revision history

| Version | Change notes | Modifier | Date      |
|---------|--------------|----------|-----------|
| V1.0    | First draft. | Dave.li  | 2021.6.16 |
|         |              |          |           |
|         |              |          |           |
|         |              |          |           |

# DJI Antenna Datasheet

## 1、 Basic Specifications

| No. | Specification          | Descriptions                                                                                       | Notes |  |
|-----|------------------------|----------------------------------------------------------------------------------------------------|-------|--|
| 1   | Antenna Name           | <i>HG330 SDR Ant</i>                                                                               |       |  |
| 2   | Brand                  | <i>DJI</i>                                                                                         |       |  |
| 3   | Operation<br>Frequency | <i>2.4~2.483GHz;<br/>5.15~5.35GHz<br/>5.47~5.85GHz;</i>                                            |       |  |
| 4   | Connector Type         | <i>SMA</i>                                                                                         |       |  |
| 5   | Impedance              | 50ohm                                                                                              |       |  |
| 6   | Gain                   | <i>2.5dBi@2.4~2.483GHz<br/>2.5dBi@5.15~5.35GHz<br/>2.5dBi@5.47~5.725GHz<br/>3dBi@5.725~5.85GHz</i> |       |  |
| 7   | Efficiency             | $\geq 50\%$                                                                                        |       |  |
| 8   | VSWR                   | $\leq 2.5$                                                                                         |       |  |
| 9   | Polarization<br>type   | <i>Linear</i>                                                                                      |       |  |
| 10  | 3dB Beamwidth          | <i>Omnidirectional</i>                                                                             |       |  |
| 11  | Weight                 |                                                                                                    |       |  |

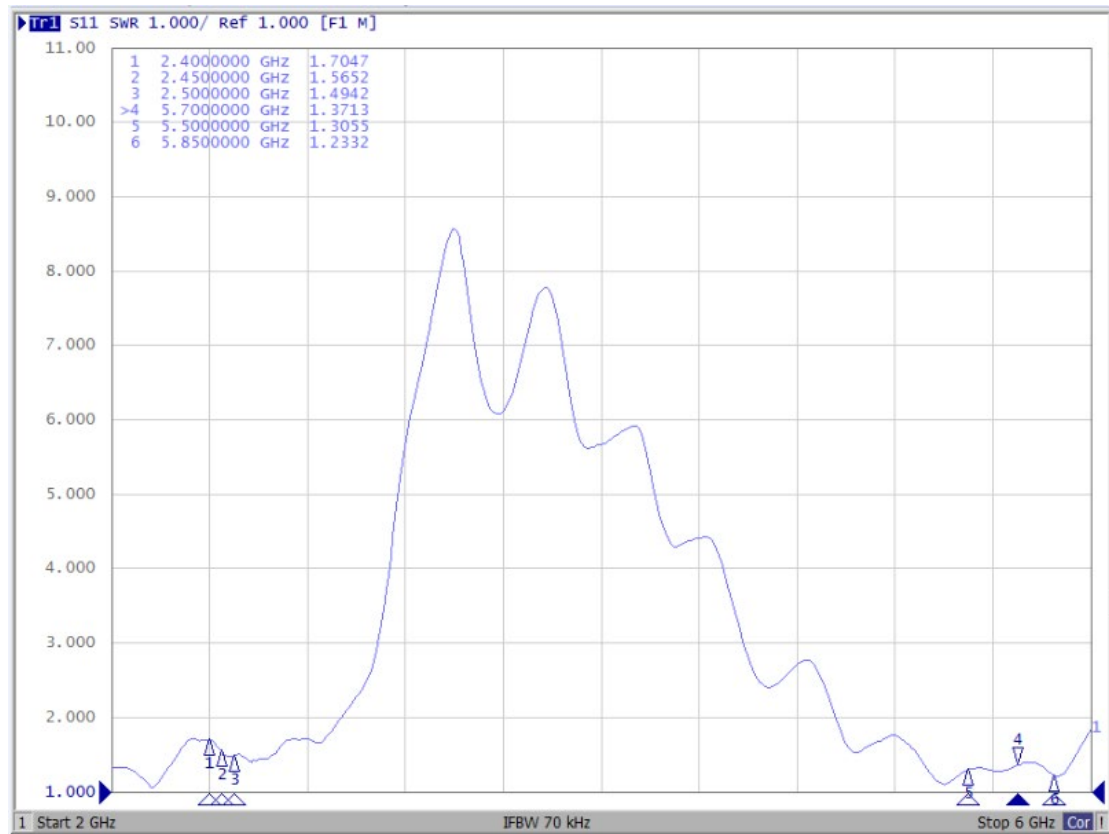
| 频率      | 增益   | 效率  |
|---------|------|-----|
| 2400MHz | 2.07 | 67% |
| 2410MHz | 2.47 | 69% |
| 2420MHz | 2.31 | 71% |
| 2430MHz | 1.84 | 69% |



|         |       |     |
|---------|-------|-----|
| 2440MHz | 1. 88 | 68% |
| 2450MHz | 2. 12 | 70% |
| 2460MHz | 1. 82 | 71% |
| 2470MHz | 1. 29 | 67% |
| 2480MHz | 1. 34 | 64% |
| 5150MHz | 2. 32 | 60% |
| 5200MHz | 2. 47 | 65% |
| 5250MHz | 2. 09 | 65% |
| 5300MHz | 2. 02 | 65% |
| 5350MHz | 2. 25 | 70% |
| 5470MHz | 2. 08 | 69% |
| 5500MHz | 2. 07 | 65% |
| 5550MHz | 1. 93 | 67% |
| 5600MHz | 2. 03 | 62% |
| 5650MHz | 2. 07 | 63% |
| 5700MHz | 1. 86 | 64% |
| 5725MHz | 2. 00 | 62% |
| 5750MHz | 2. 99 | 68% |
| 5775MHz | 2. 72 | 65% |
| 5800MHz | 2. 87 | 67% |
| 5825MHz | 2. 53 | 64% |
| 5850MHz | 2. 52 | 65% |

## 2、 Return Loss

SDR antenna S11



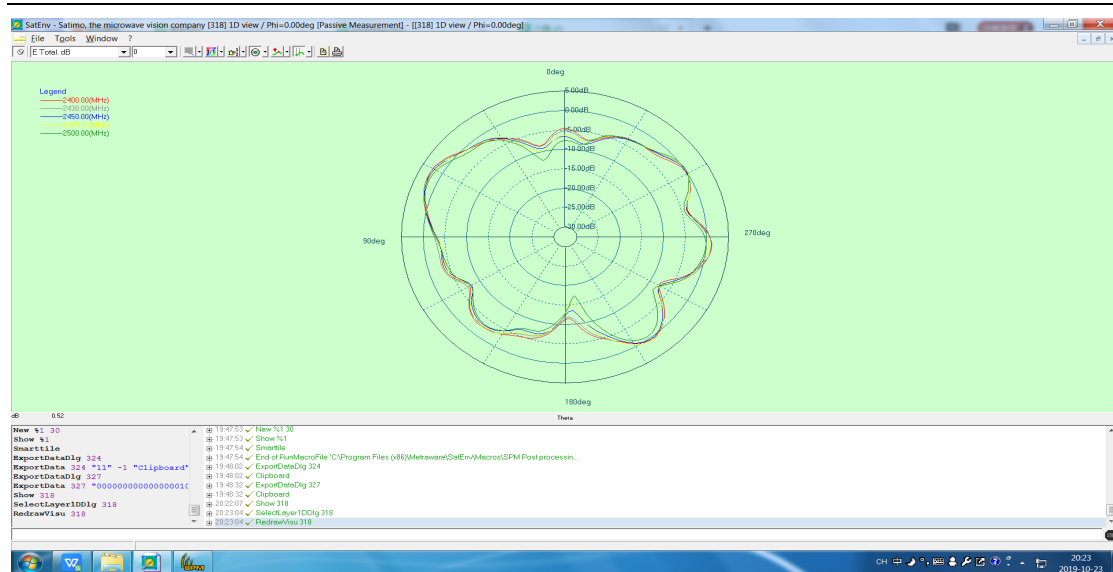
## Radiation Pattern

Test lab: Satimo SG24

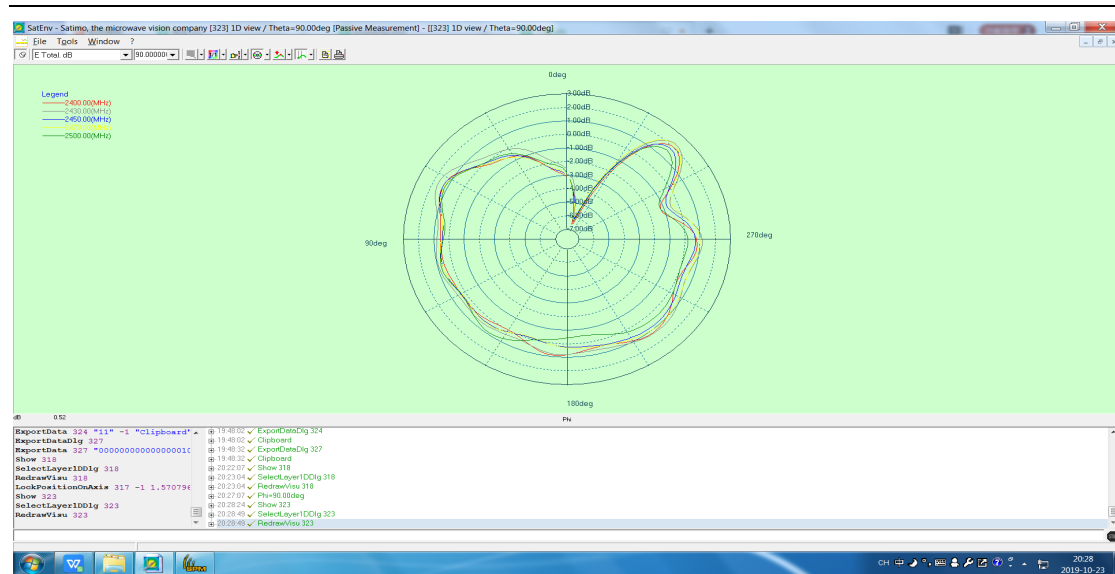
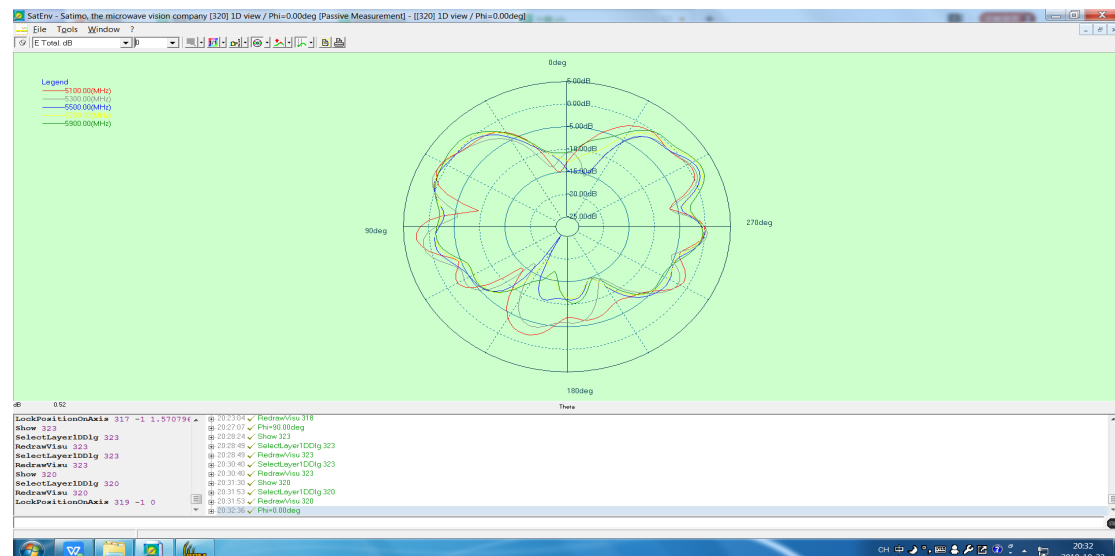
Test date: 20210512

SDR antenna 2.4GHz

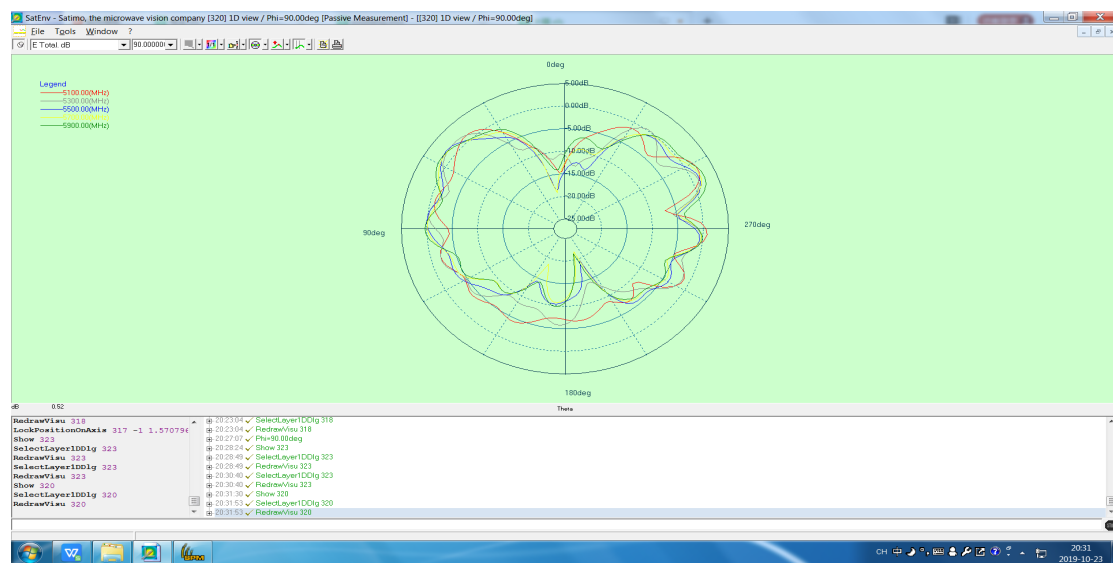
*Phi = 0*



$\theta = 90^\circ$

 $\Phi = 0$ 

$\Phi = 90^\circ$



Theta = 90

