

# ART SIGNAL

## ANTENNA TOTAL SOLUTION



## | **2.4G Antenna Test Data**

### **SOLUM M3 4.2inch 2.4G Antenna Test Data**

- Network & 3D gain & 3D Radiation Pattern
- 16CMOLK & 3D gain & 3D Radiation Pattern

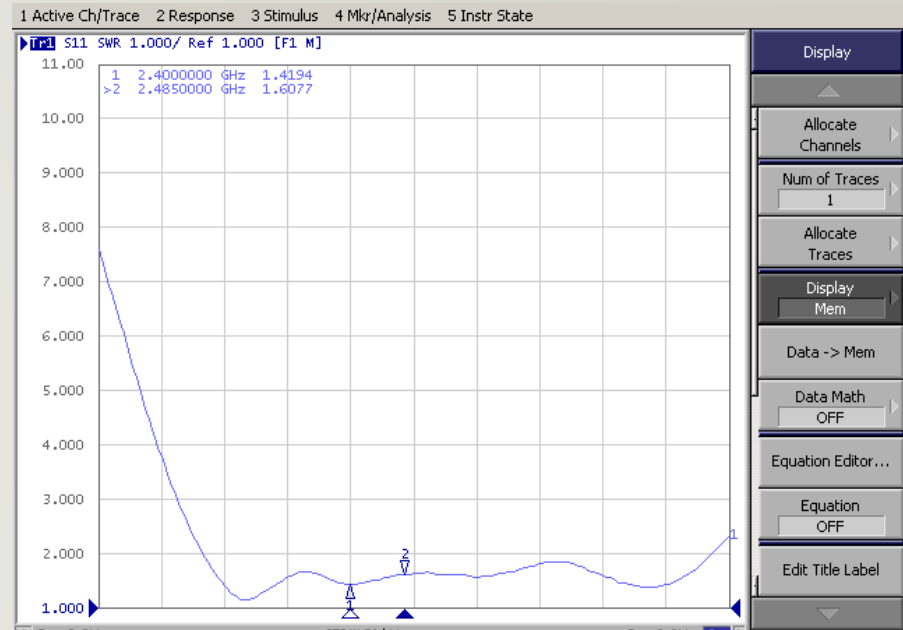
A N T E N N A T O T A L S O L U T I O N

# SOLUM M3 4.2inch 2.4G ANT DATA - Network & 3D gain

Picture



VSWR

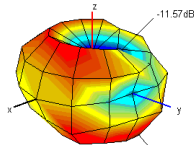
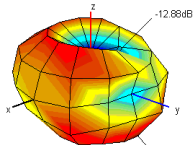
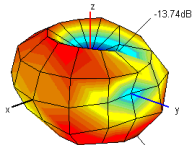
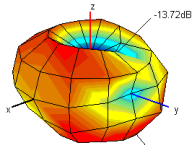
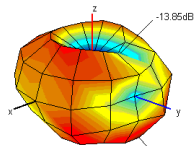


3D gain

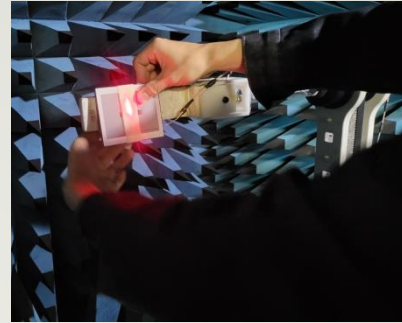
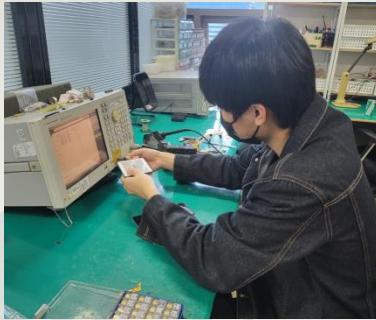
|                          | 1             | 2             | 3             | 4             | 5             |
|--------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>Frequency [MHz]</b>   | <b>2400</b>   | <b>2420</b>   | <b>2440</b>   | <b>2460</b>   | <b>2485</b>   |
| <b>Efficiency [dB]</b>   | <b>-1.69</b>  | <b>-1.45</b>  | <b>-1.16</b>  | <b>-1.08</b>  | <b>-1.12</b>  |
| <b>Efficiency [%]</b>    | <b>67.7</b>   | <b>71.6</b>   | <b>76.6</b>   | <b>78.0</b>   | <b>77.2</b>   |
| <b>Peak Gain [dB]</b>    | <b>2.75</b>   | <b>2.99</b>   | <b>3.36</b>   | <b>3.55</b>   | <b>3.78</b>   |
| <b>Directivity [dB]</b>  | <b>4.45</b>   | <b>4.44</b>   | <b>4.52</b>   | <b>4.63</b>   | <b>4.90</b>   |
| <b>Minimum Gain [dB]</b> | <b>-11.57</b> | <b>-12.88</b> | <b>-13.74</b> | <b>-13.72</b> | <b>-13.85</b> |

# SOLUM M3 4.2inch 2.4G ANT DATA – 3D Radiation Pattern

## 3D Radiation Pattern

| 2400                                                                                | 2420                                                                              | 2440                                                                                | 2460                                                                                |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    |  |  |  |
| 2485                                                                                |                                                                                   |                                                                                     |                                                                                     |
|  |                                                                                   |                                                                                     |                                                                                     |

Measurement procedure 1. Network Analyzer → VSWR measurement → 3D Gain Test measurement



Measuring equipment 2.



E5071B Agilent



8753ES Agilent



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