



SA-3222 2.4G Printer Antenna Test Report

2022-04-11

Antenna Test System

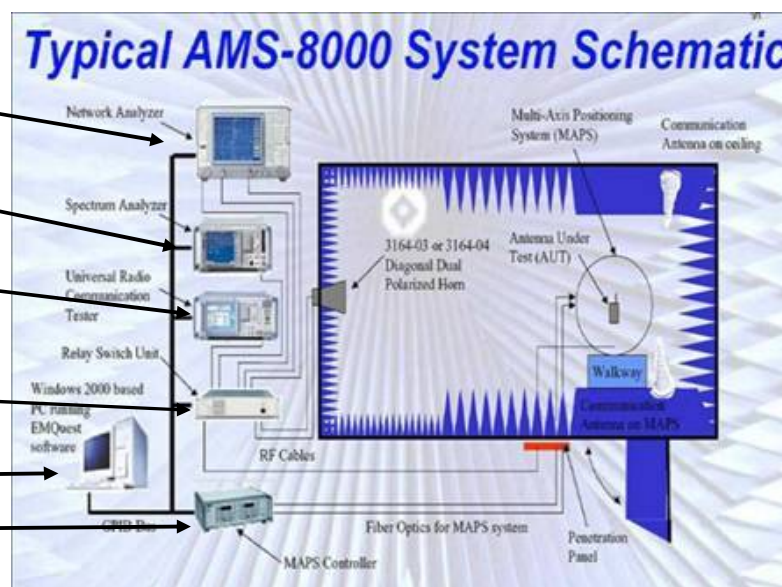


- ETS-Lindgren AMS-8000 Series System Components
- Chambers
- EMQuest EMQ-100 Software
- Positioning Systems
- Chamber Room Size: L*W*H=7.3*3.7*3.7 M



NA 8720ES

- **Network Analyzer**
Agilent 8720ES
- **Spectrum Analyzer**
R&S FSP13
- **Universal Radio Communication Tester**
R&S CMU200
- **Switch**
Agilent 3499B
- **PC and Software**
- **Rotate Controller**
ETS-Lindgren 2090



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Antenna Placement



Bottom

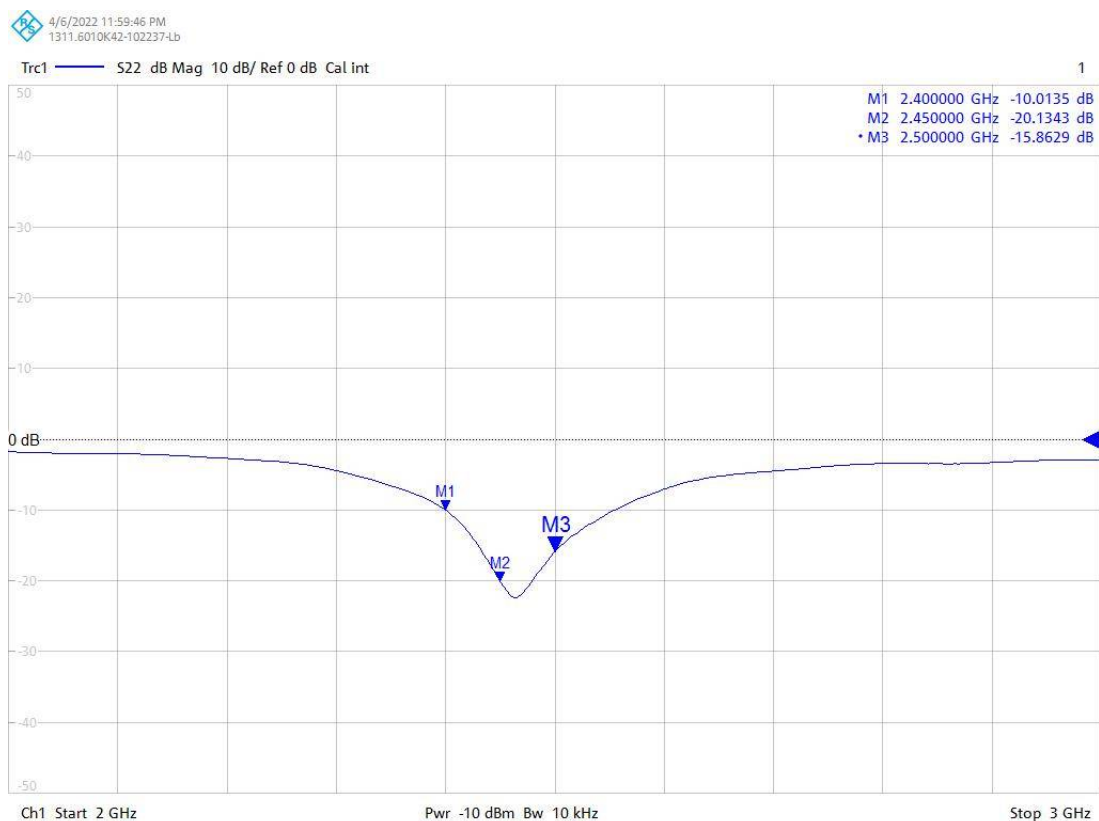


Antenna



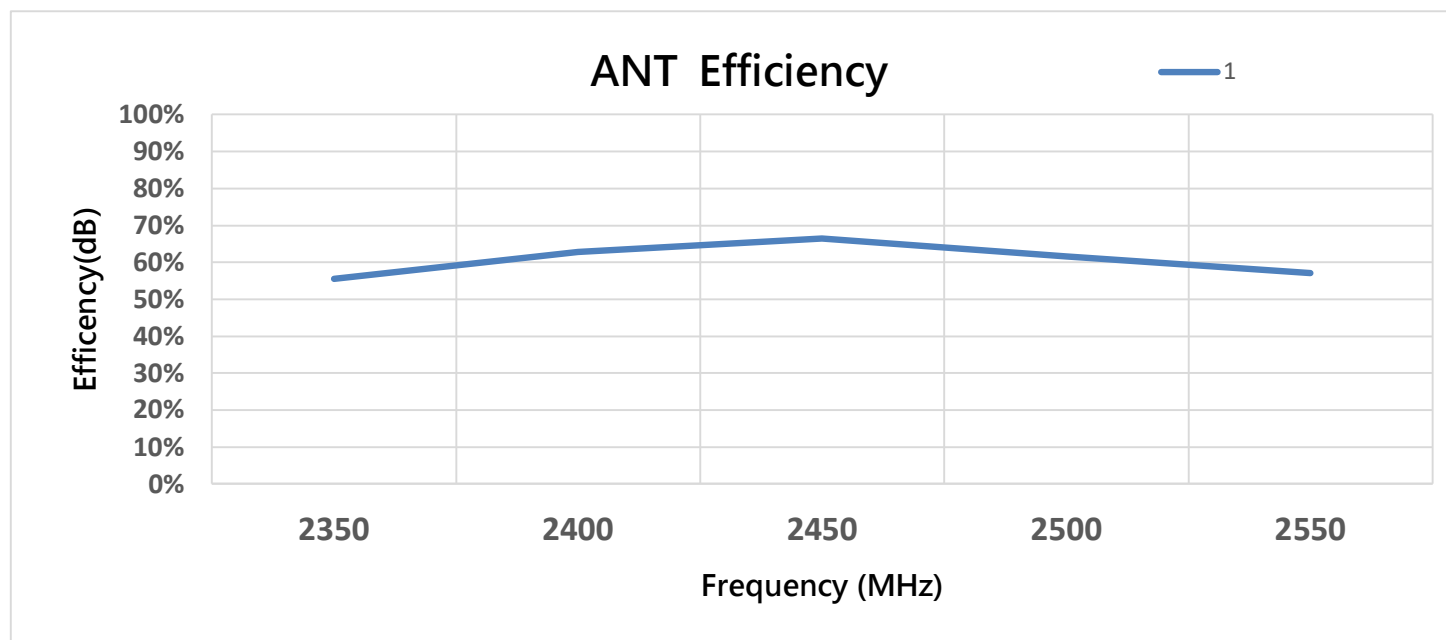
TOP

ANT S-Parameter



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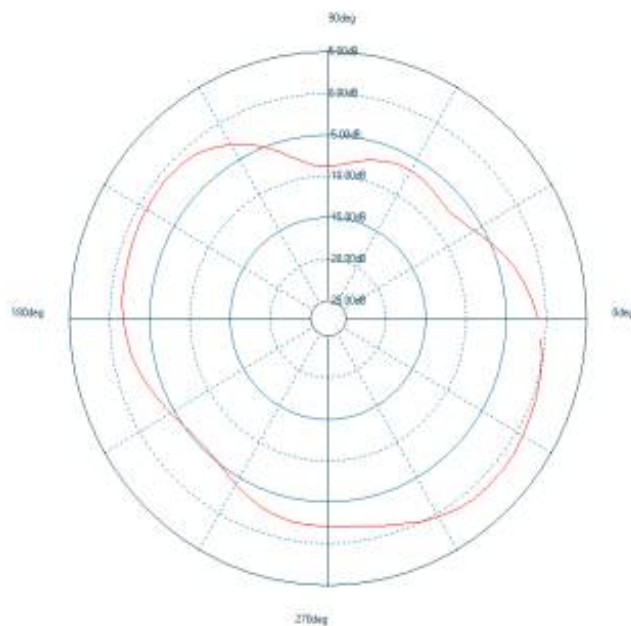
Antenna Efficiency



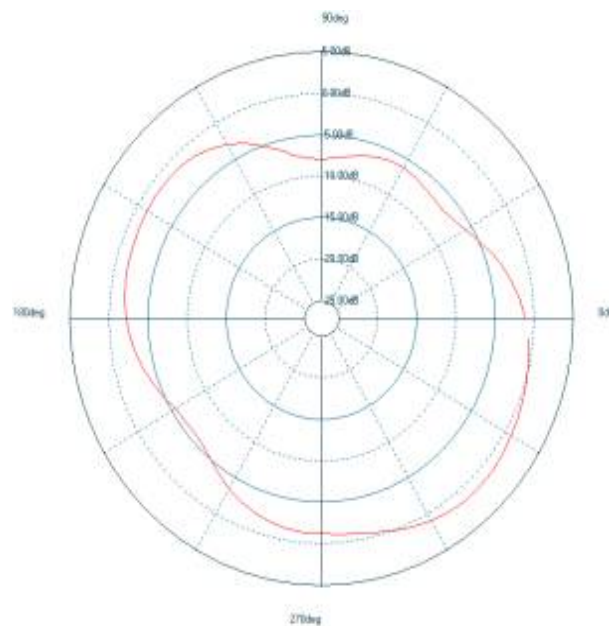
Frequency(MHz)	2350	2400	2450	2500	2550
Peak Gain(dBi)	3.30	3.80	4.10	3.50	3.20



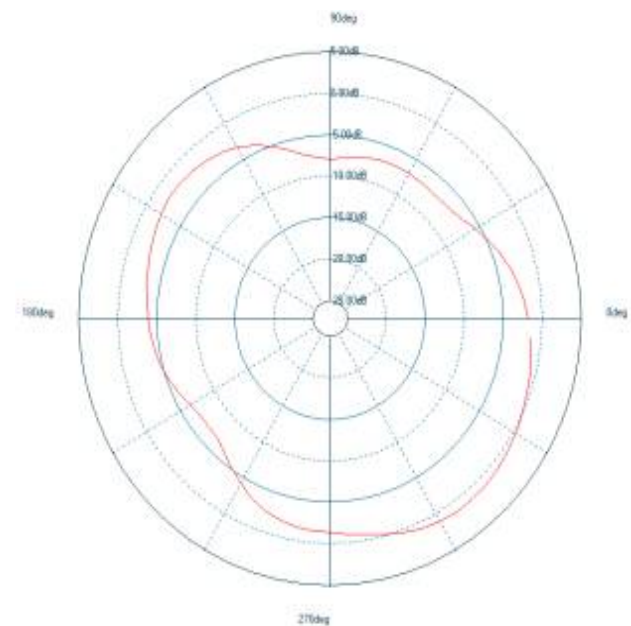
Antenna 2D Radiation Pattern



2.4GHz

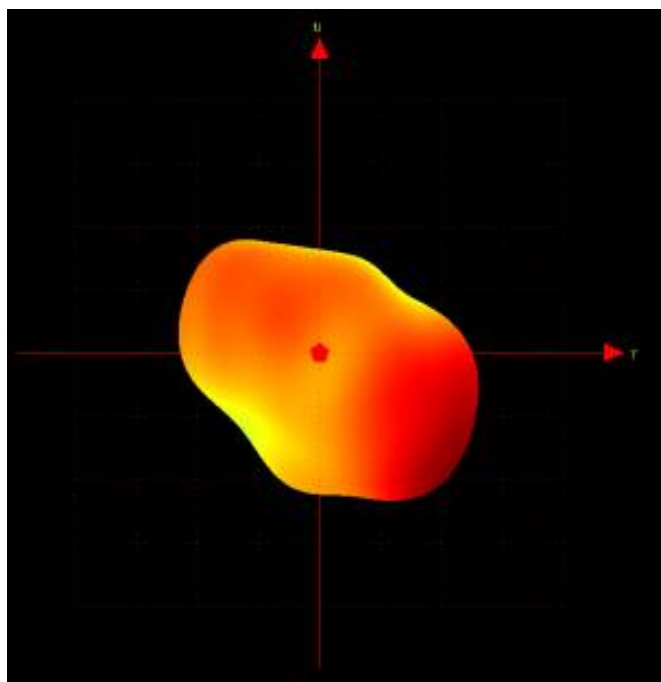


2.45GHz

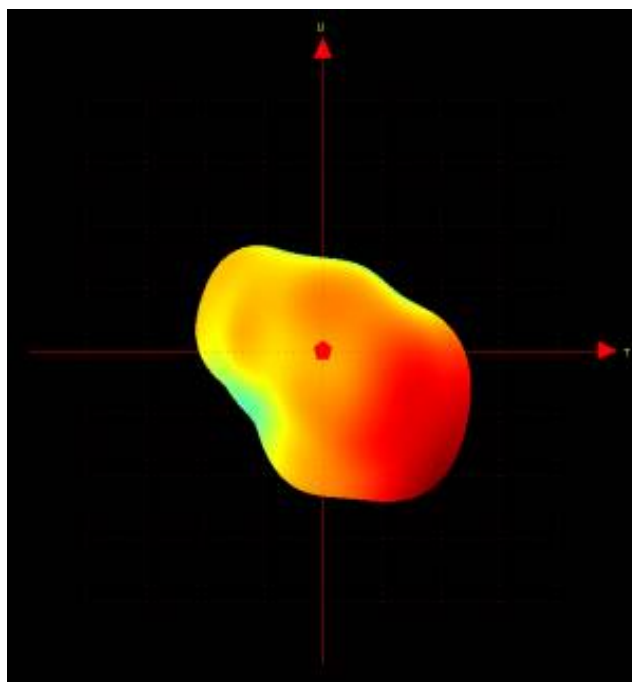


2.5GHz

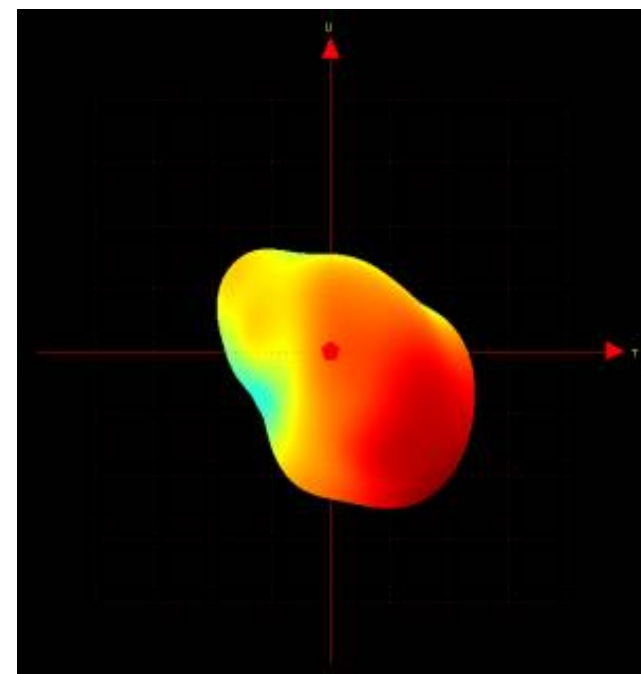
Antenna 3D Radiation Pattern



2.4GHz



2.45GHz



2.5GHz

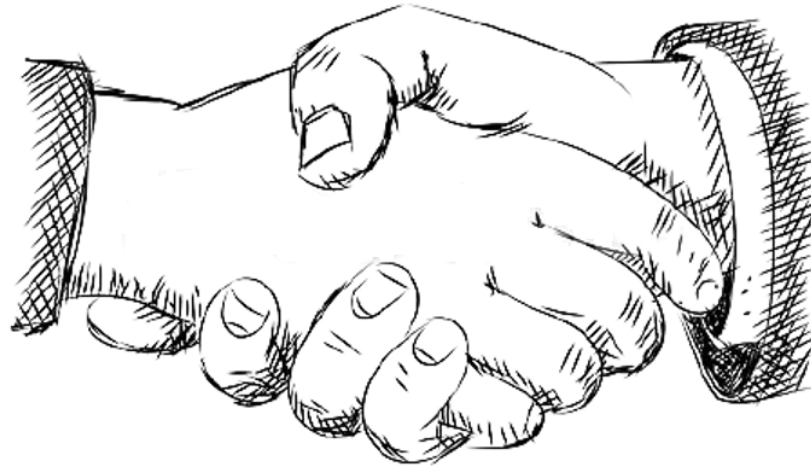
Conclusion



2400~2500GHz S-Parameters皆在-10dB以下，天線效率都能達到60%



Thank You!



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