

MATEOS

for Antenna Measurement Software

Product overview

Our own developed software for Antenna measurement, named **MATEOS**, enable user to customize as demanded.

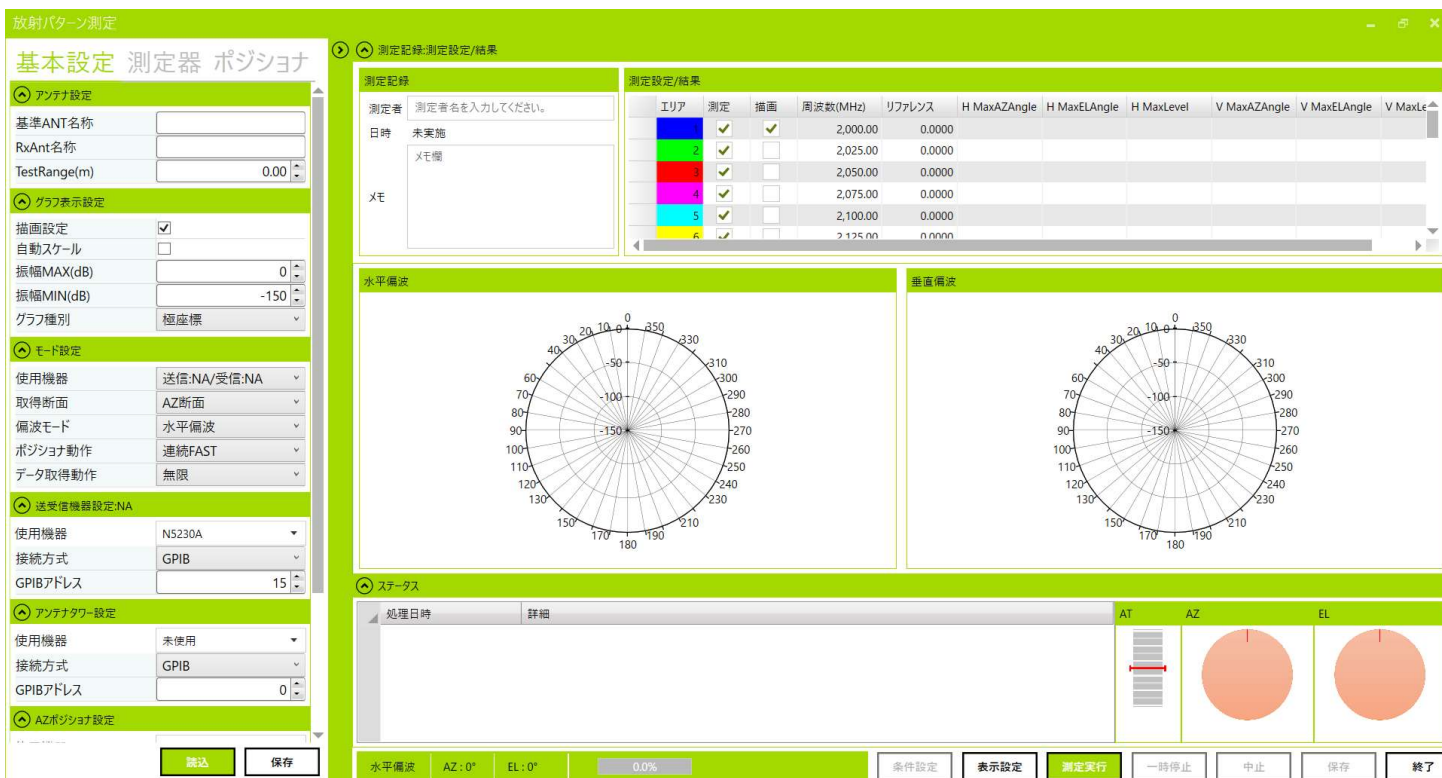
Main Features for measurement,

1. 2D antenna radiation pattern
2. 3D antenna radiation pattern
3. Mobile terminal radiation
4. mm-wave radar radiation pattern
5. RF measure for production line



☆2D radiation pattern

Measurement by using Spectrum Analyzer, Network Analyzer.
Flexible drawing, so easy & quick to make the reports.



The screenshot displays the MATEOS software interface for antenna measurement. The window title is '放射パターン測定'. The interface is divided into several sections:

- 基本設定 測定器 ポジショナ**: Contains settings for antenna, graph display, mode, and antenna connector.
- 測定記録:測定設定/結果**: A table showing measurement records with columns for area, measurement, drawing, frequency, reflection, and various angles and levels.
- 水平偏波**: A 2D radiation pattern plot showing the horizontal polarization pattern.
- 垂直偏波**: A 2D radiation pattern plot showing the vertical polarization pattern.
- ステータス**: A section for processing time and status, including a progress bar and buttons for '条件設定', '表示設定', '測定実行', '一時停止', '中止', '保存', and '終了'.

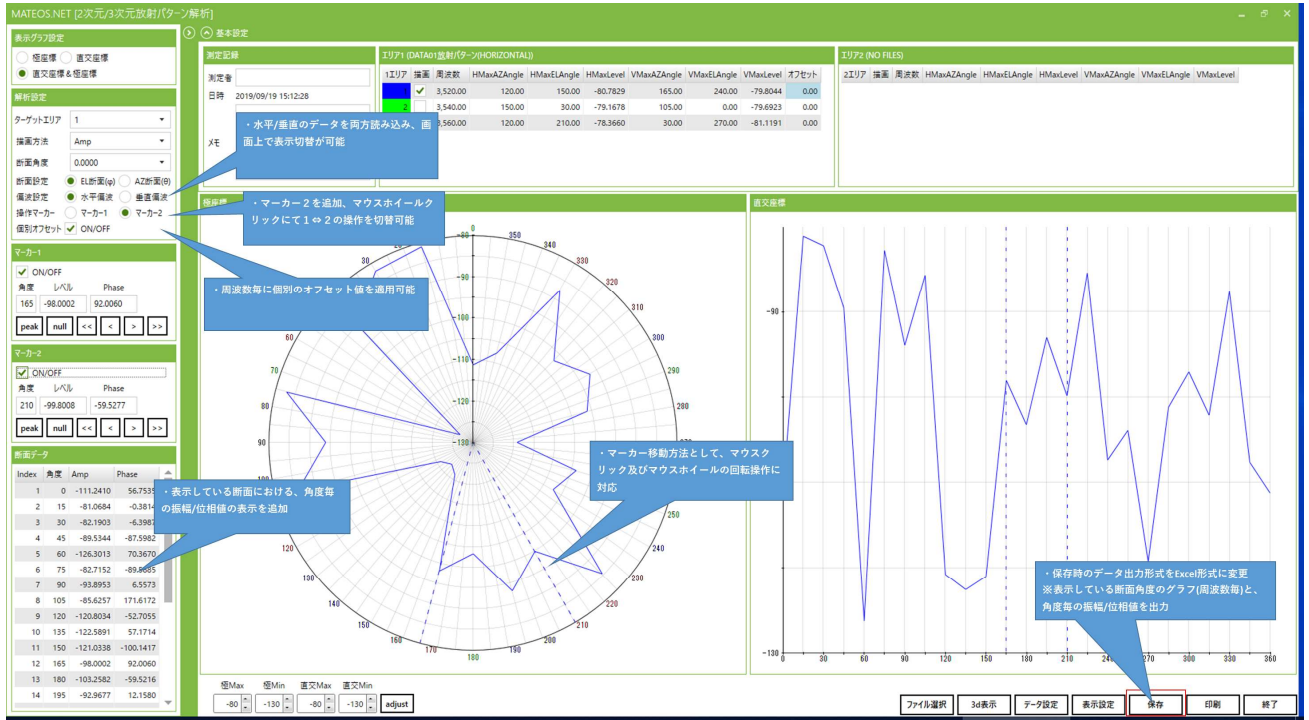
At the bottom of the window, there are status indicators for '水平偏波', 'AZ: 0°', 'EL: 0°', and '0.0%'.

Available Setting parameters

- Graph Clipping & Copy (enable to paste to Word & Excel files)
- Flexible choice the line patterns and colors (effective to reporting)
- Lever Offset function

other supports for several measurement

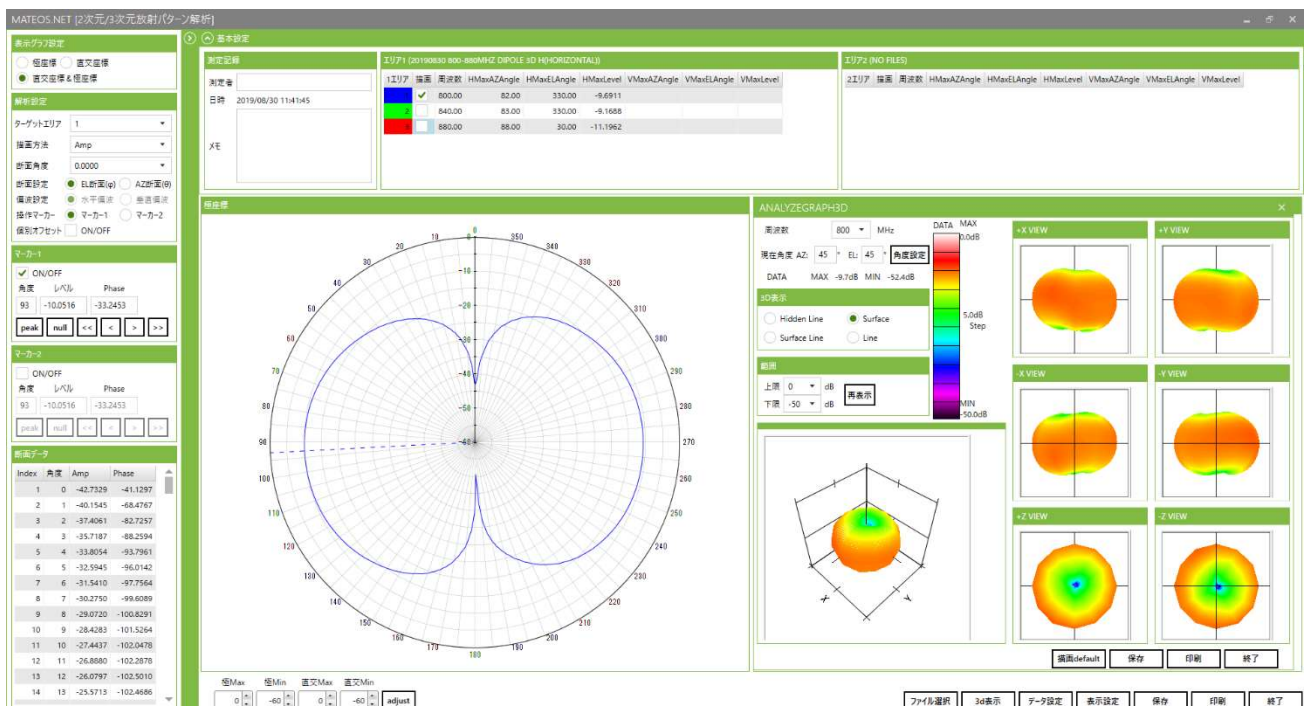
- Antenna AR (axial ratio)
- Spinning Linear
- Pattern average Gain (relative comparison)
- Simple Efficiency (relative comparison)
- Antenna Gain (relative comparison)



☆3D radiation pattern

3D display method

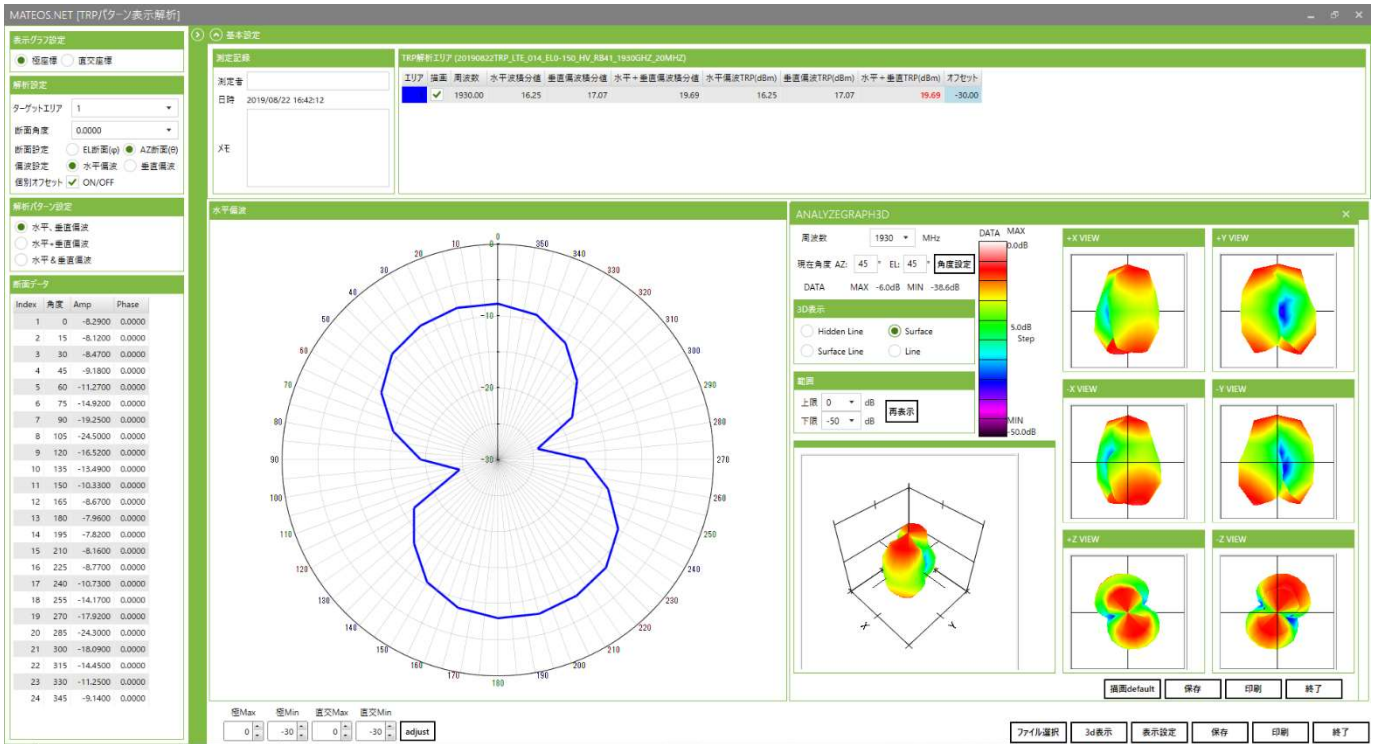
- Hidden Line
 - Surface
 - Surface Line
 - Line
- *required 2axis positioner for 3D measurement



☆ TRP (Total spherical Radiation Power)

Available to measure & analyze TRP by relative comparison using reference antenna. Relative comparison would support Free-Space back calculation and Path Loss, so they are automatically calculated without details.

- Antenna Gain
- Table Loss
- Free-Space Loss



☆ TIS / TRS (Total Isotropic Sensitivity / Total Radiated Sensitivity)

Available automatic measurement of BER (Bit Error Rate) by using base station simulator for mobile devices. Enable user to have accuracy result due to detailed threshold levels (1st, 2nd and Final BER) setting, even if auto measurement.

