

## Enhance Your Antenna's Performance with RadioSiteTest's Advanced Radiation Pattern Characterization

RadioSiteTest utilizes state-of-the-art technology, including a high-quality US-made medium lift drone equipped with Anritsu RF test equipment, to meticulously characterize the RF performance of VHF, UHF, or microwave transmit and receive systems.

Our Process:

- **Accurate Positioning:** Our drone is precisely positioned in the far field, away from the transmit or receive antenna, enabling us to characterize both horizontal and vertical radiation patterns.
- **Pattern Creation:** We employ a circle flight plan to create a horizontal pattern and a vertical stripe for the vertical pattern.
- **Efficiency:** The transmitter site is activated for a mere 2 minutes to capture each pattern. For receive antenna systems, we employ a low-power transmitter on the drone, measuring receive signal strength using an Anritsu Spectrum analyzer.

Benefits:

- **Optimized Performance:** Our measured antenna patterns enable more precise coverage predictions and facilitate adjustments to antenna placement on the tower for optimal performance.
- **Calibration:** Optionally, we can mount calibrated antennas on the drone to provide field strength patterns, ensuring even more accurate coverage predictions.

Trust in RadioSiteTest:

- **Certified Professionals:** RadioSiteTest employs experienced FAA 107 approved pilots, backed by comprehensive insurance coverage.
- **Elevate Your System:** Elevate your system's performance with RadioSiteTest's cutting-edge antenna measurement services.

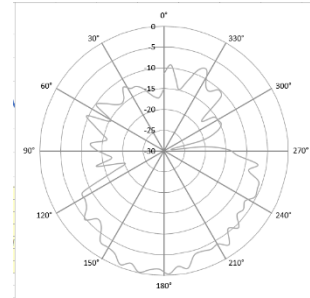
Contact us today to unlock the full potential of your antenna systems!



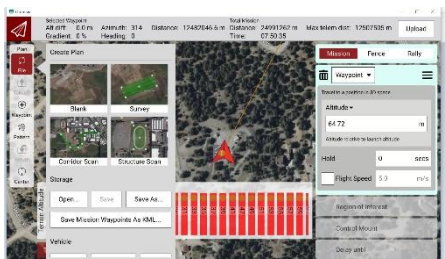
WISPR Range Drone with 7 lb payload capacity



Telewave ANT 400D antenna



Measured horizontal antenna pattern for Telewave ANT 400D



Flight planning software built into the WISPR controller



Flight plan for circle flight in Northern Nevada



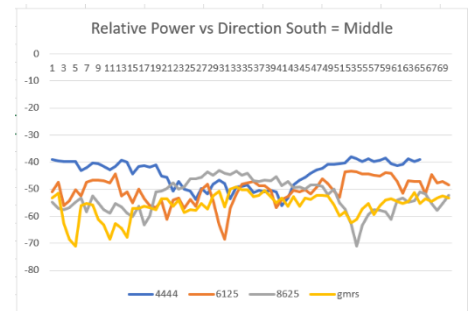
Anritsu MS27100A spectrum analyzer removed from the drone



Google Earth display of signal strength measurements taken from the circle flight



150 ft tower with 4 UHF antennas / transmitters



Signal strength measurement comparison from 4 circle flights/antennas. All transmitters were equal power