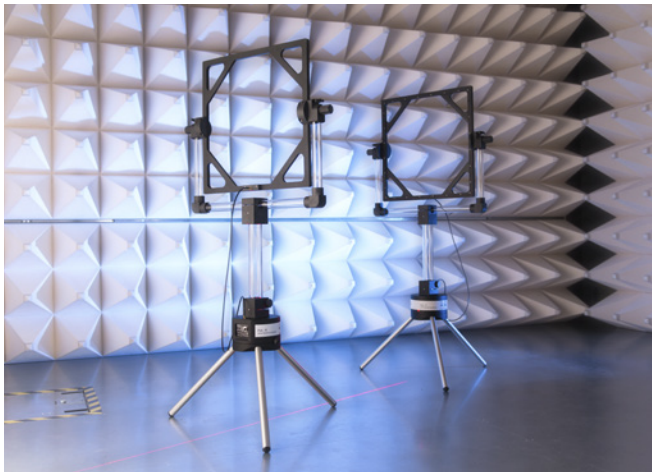


# PLA-SET FOR SITE VALIDATION

## PRECISION LOOP ANTENNA



The PLA set consists of two active, battery powered loop antennas intended for site validation. With the broad frequency range from 9 kHz to 30 MHz it is suitable for Normalized Site Attenuation (NSA) measurements and Shielding Effectiveness (SE) measurements.

Normalized Site Attenuation (NSA) measurement at 3 m, 5 m and 10 m distance is convenient due to sufficient dynamic range, all required documentation and calibration. Setup and alignment is easy with the integrated tripod and laser system. A decoupling unit to avoid ground loops is included.

The high dynamic range of the PLA-Set is a benefit for Shielding Effectiveness (SE) can be measured with a high dynamic. No external power amplifier or low noise preamplifier is required.



[www.seibersdorf-laboratories.at/PLA-SET](http://www.seibersdorf-laboratories.at/PLA-SET)

### PRODUCT HIGHLIGHTS

- Active transmit and receive antenna
- Integrated tripod with laser alignment
- High of transmit power
- Very low noise floor
- Battery powered
- Accredited calibration included (Antenna Pair Method)
- Transport/Flight case included

### APPLICABLE STANDARDS

- CISPR 16-1-4 (draft)
- EN 50147-1
- IEEE 299

### TECHNICAL DATA

|   | PLA - T   | PLA - R              |
|---|---|----------------------|
| Application                             | transmit  | receive              |
| Frequency range                         | 9 kHz - 30 MHz<br>(broadband stage)<br><br>9 kHz - 200 kHz<br>(current stage) | 9 kHz - 30 MHz       |
| Antenna area                            | Square, 60 cm side length   |                      |
| Antenna height (center)                 | 1.3 m when mounted on the antenna stand                                       |                      |
| Temperature stability of antenna factor |   |                      |
| Laboratory (20° C - 25° C)              | ± 0.05 dB   | ± 0.025 dB           |
| Field use (10° C - 35° C)               | ± 0.25 dB   | ± 0.1 dB             |
| Battery operation time                  | >8 h typical use for SE and NSA measurement                                   | >24 h continuous use |
| Batteries                               | internal, 10 cell NiMH, factory serviceable only                              |                      |
| Laser                                   | Class 2   |                      |
| Dimensions of Antenna Set (flightcase)  | 89 x 83 x 53 cm, weight 62 kg   |                      |

Presented by:



# PLA-SET FOR SITE VALIDATION PRECISION LOOP ANTENNA

## FIGURES (TYPICAL DATA)

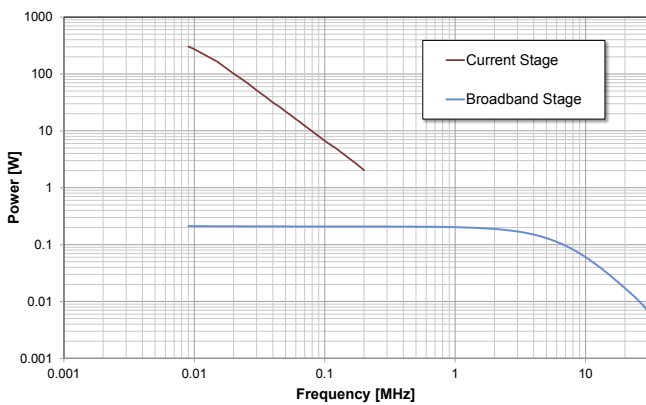


Figure 1: PLA – T: Equivalent RF transmit power in a 50 Ohm system

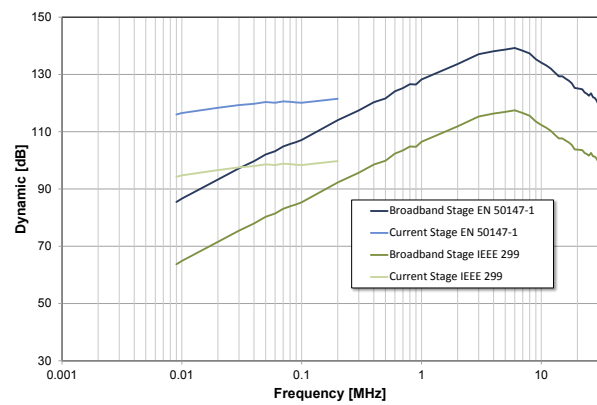


Figure 3: Dynamic range for Shielding Effectiveness measurement using 10 Hz resolution bandwidth

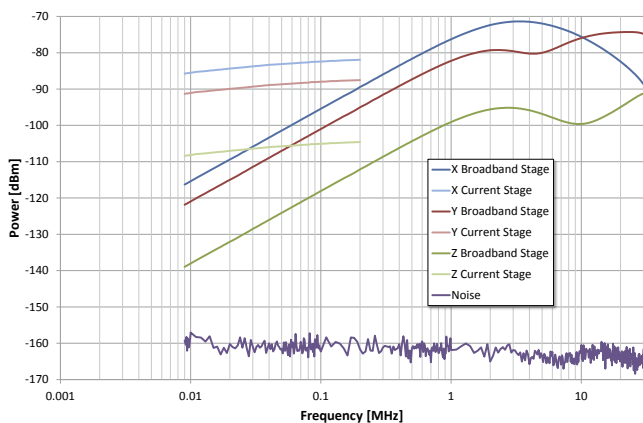


Figure 2: Signal levels for 10 m Normalized Site Attenuation measurement using 10 Hz resolution bandwidth

Seibersdorf Labor GmbH  
RF-Engineering  
2444 Seibersdorf, Austria

Web: [www.seibersdorf-laboratories.at/rf](http://www.seibersdorf-laboratories.at/rf)

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