



CERTIFICATE OF CALIBRATION

Product name: Vigilant-Sensor (VSN)
Description: RF Voltage-Current Probe
Model No: VSN-500X-50-1M-1F-100
Date: April 11, 2016
Service type:

- Adjustment of the sensors response and calibration to customer specifications

Customer specifications:

- **Voltage Attenuation:** 500
- **Transfer Impedance:** 50 mV/A

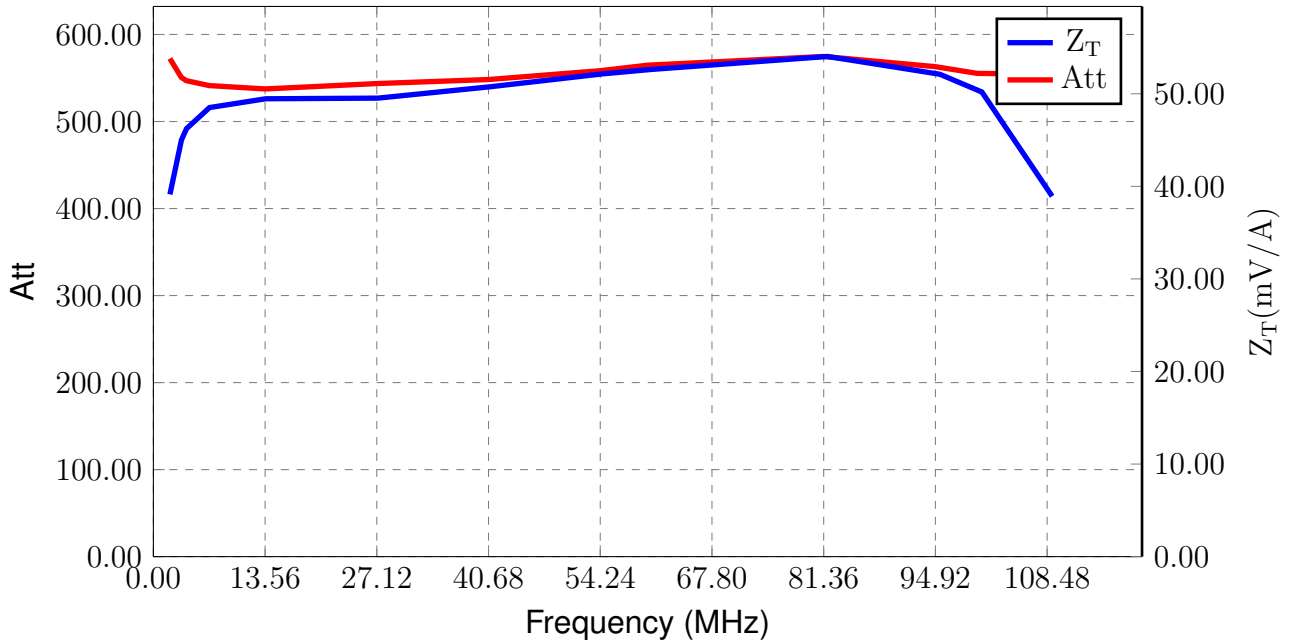
- **Signal cable length:** 1 meter
- **Coaxial connectors (through line):**
 - **Input:** N Male
 - **Output:** N Female
- **Insertion Loss** \leq -0.09dB (2 %)
- **Rating (without the connectors):**
 - **Max Voltage:** 10kV peak-to-peak
 - **Max Current:** 200A peak-to-peak

CORRECTION FACTORS

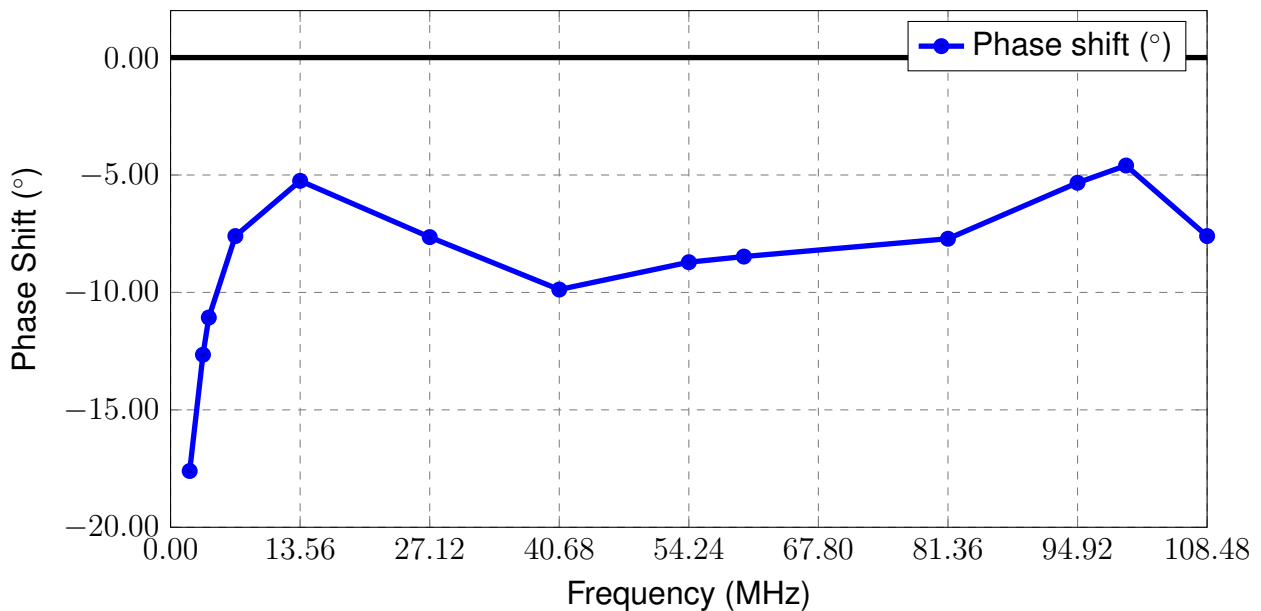
Freq. (MHz)	Voltage Attenuation Att $\pm 3\%$	Transfer Impedance Z_T (mV/A) $\pm 3\%$	V-I Phase Shift Error $\Delta\Phi_{V-I}$ ($^\circ$) $\pm 1^\circ$
2.00	572	39.1	-17.6
3.39	551	45.0	-12.7
4.00	547	46.2	-11.1
6.78	541	48.5	-7.6
13.56	537	49.5	-5.2
27.12	544	49.5	-7.6
40.68	548	50.8	-9.9
54.24	558	52.2	-8.7
60.00	565	52.6	-8.5
81.36	575	54.0	-7.7
94.92	563	52.1	-5.3
100.00	555	50.2	-4.6
108.48	554	38.9	-7.6



VOLTAGE ATTENUATION & TRANSFER IMPEDANCE



PHASE SHIFT ERROR ($\Delta\Phi_{V-I}$)



Certified by:

Date: