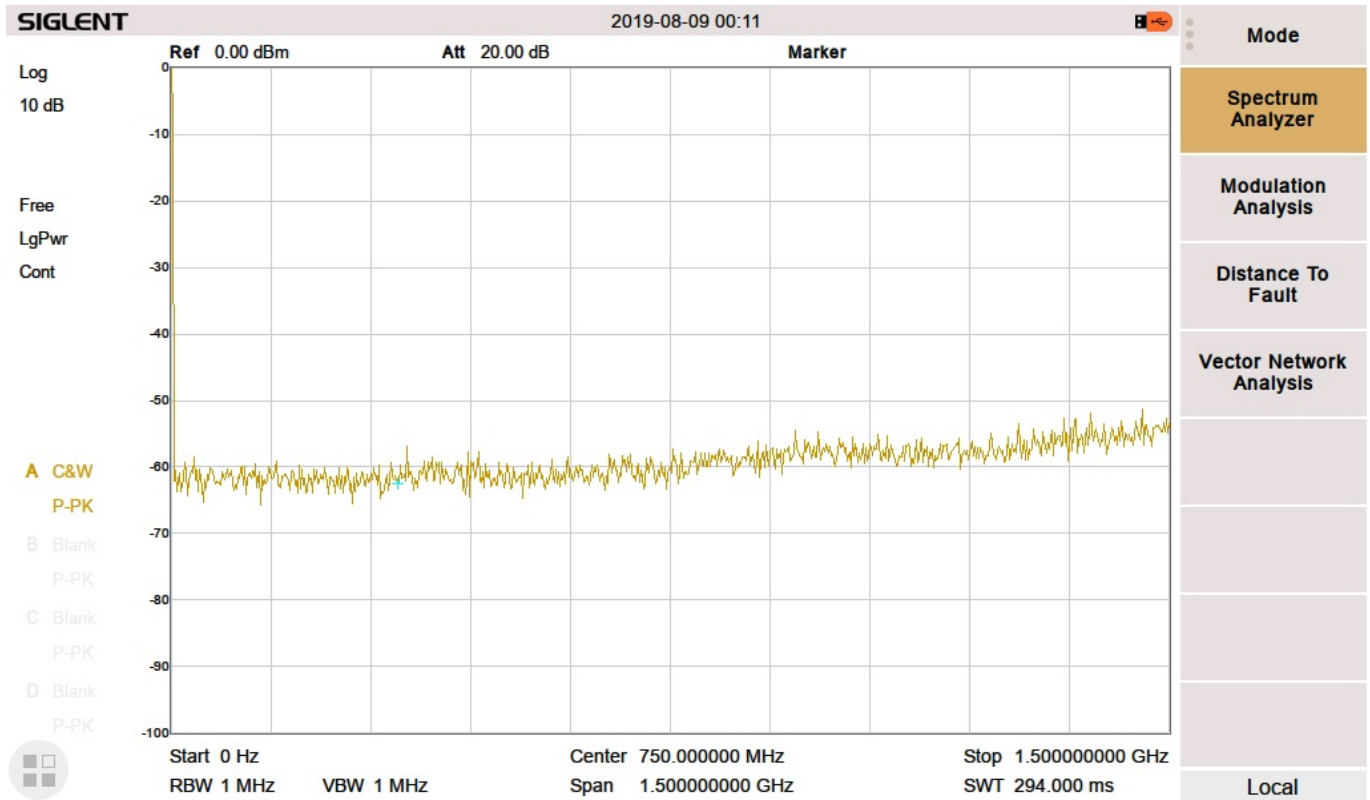


# How to configure the SVA1X for complex impedance measurements

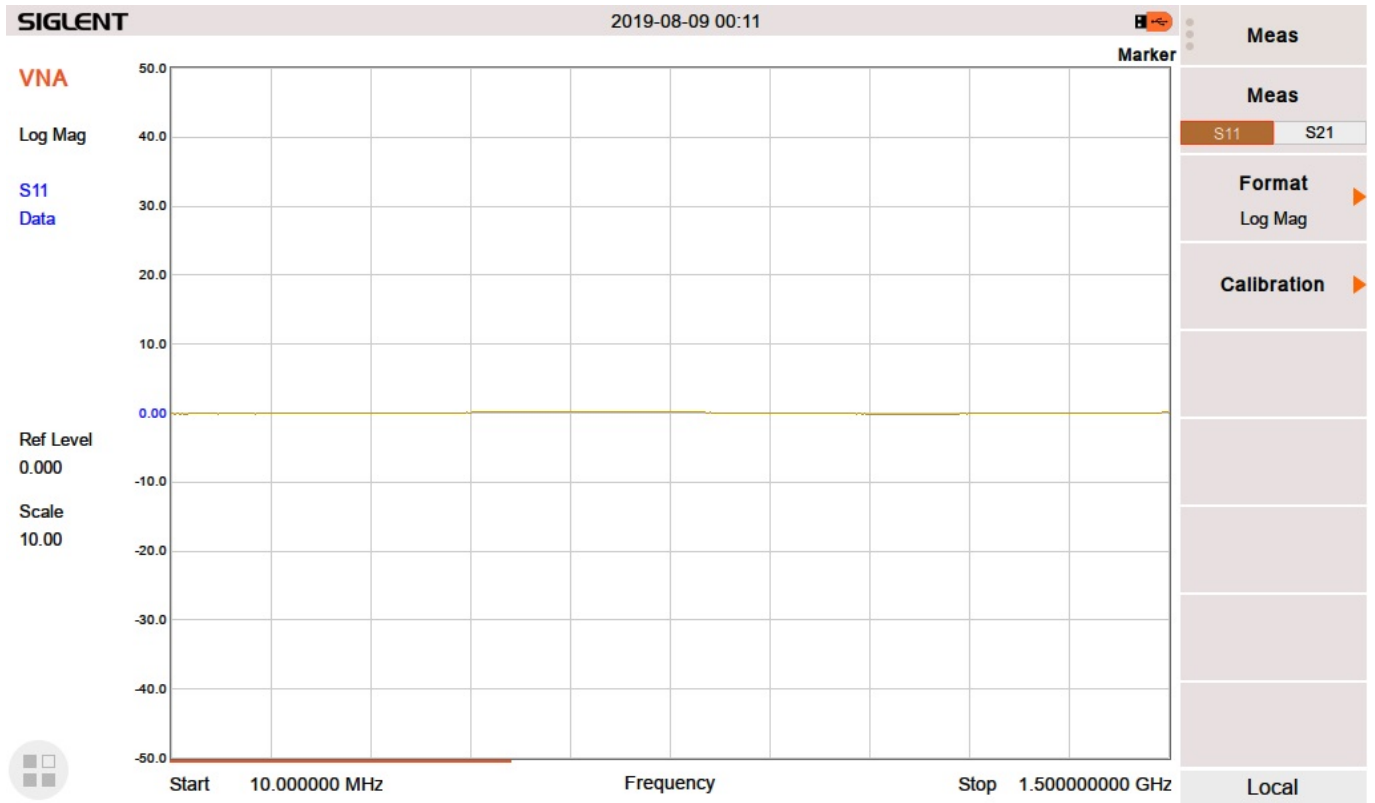
August 21, 2019

The SIGLENT SVA1X series is a multi-purpose RF measurement instrument. This operating tip shows you how to quickly configure the Vector Network mode to show a Smith chart displaying complex impedance:

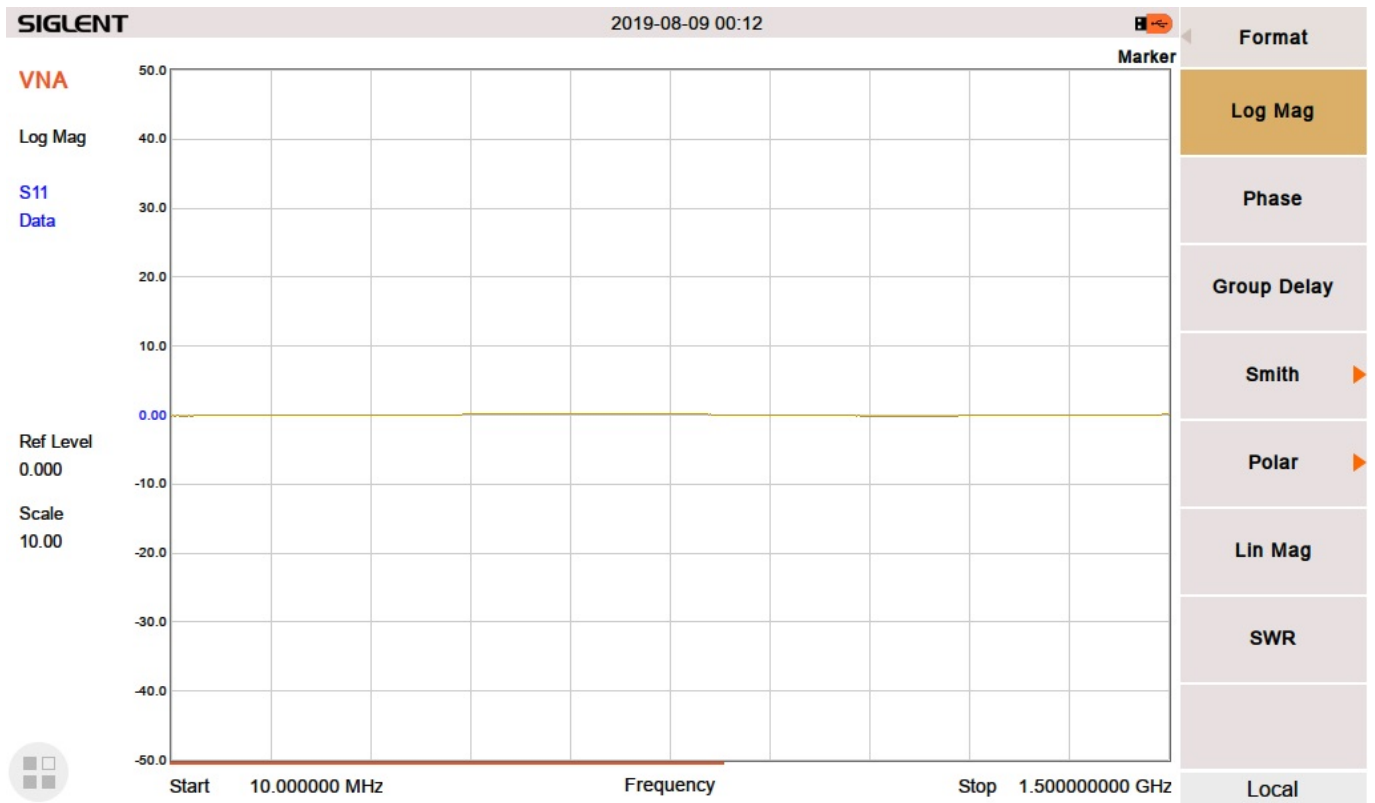
1. VNA mode - Press Mode > VNA



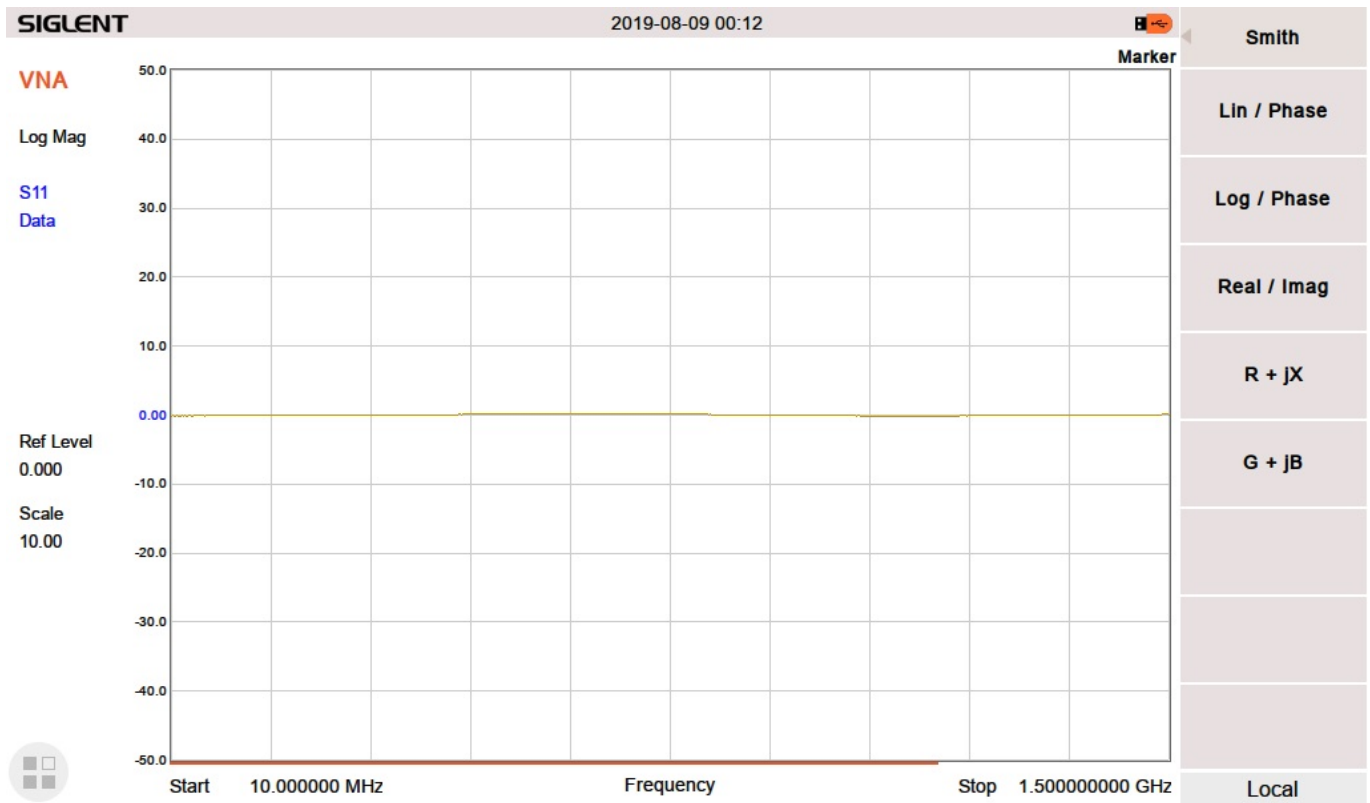
2. Set Meas type as S11 or S21



### 3. Set Format - Smith



4. Select R + jX

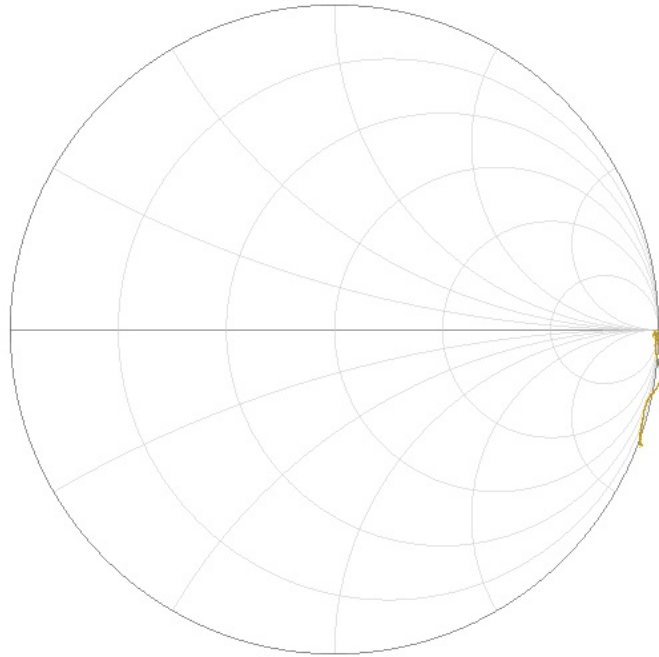


5. Now, you can activate markers (press Marker) and you can adjust the position of the marker on the screen to get the exact reading at that point

VNA

Smith  
R+jX  
S11  
Data

Scale  
1.000



Start 10.000000 MHz Frequency Stop 1.50000000 GHz

Marker

Select Marker  
1 2 3 4

Select Trace  
A B

Normal

Delta

Off

All Off

Local



### **North American Headquarters**

SIGLENT Technologies NA  
6557 Cochran Rd Solon, Ohio 44139  
Tel: 440-398-5800  
Toll Free: 877-515-5551  
Fax: 440-399-1211  
[info@siglent.com](mailto:info@siglent.com)  
[www.siglentamerica.com/](http://www.siglentamerica.com/)

### **European Sales Offices**

SIGLENT TECHNOLOGIES GERMANY GmbH  
Staetzlinger Str. 70  
86165 Augsburg, Germany  
Tel: +49(0)-821-666 0 111 0  
Fax: +49(0)-821-666 0 111 22  
[info-eu@siglent.com](mailto:info-eu@siglent.com)  
[www.siglenteu.com](http://www.siglenteu.com)

### **Asian Headquarters**

SIGLENT TECHNOLOGIES CO., LTD.  
Blog No.4 & No.5, Antongda Industrial Zone,  
3rd Liuxian Road, Bao'an District,  
Shenzhen, 518101, China.  
Tel: + 86 755 3661 5186  
Fax: + 86 755 3359 1582  
[sales@siglent.com](mailto:sales@siglent.com)  
[www.siglent.com/ens](http://www.siglent.com/ens)