

## How to enable Log frequency scaling with the SSA3000X

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The Siglent SSA3000X spectrum analyzer can be configured to display amplitude and frequency with logarithmic (log) scaling.

Vertical (amplitude) scaling on a spectrum analyzer is typically shown in log scaling with dBm as units as a default.

The Horizontal (frequency) scaling is typically linear, but some applications prefer log frequency scaling.

To enable log frequency scaling:

1. Press Span on the front panel
2. Set the X-Scale value to Log

To remotely activate the log scaling, send the following SCPI command:

```
:DISPlay:WINDow:TRACe:X[:SCALe]:SPACing <LOGarithmic/LINear>
```

- LOG sets logarithmic
- LIN sets linear

To query the current horizontal scaling, send the following:

```
:DISPlay:WINDow:TRACe:X[:SCALe]:SPACing?
```

Figures 1 and 2 on the following page show how the change in scale will alter the displayed data and grid lines.

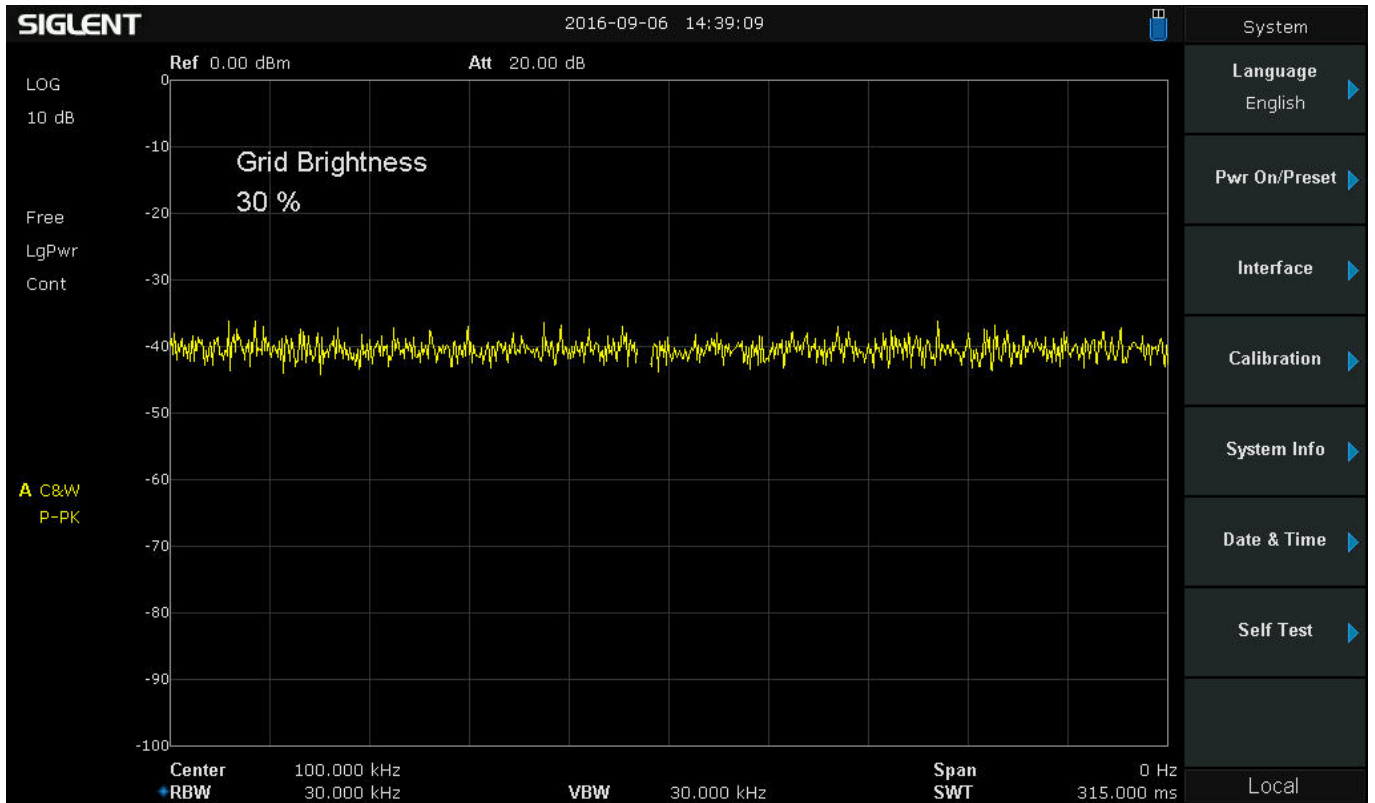


Figure 1: Screenshot of an SSA3000X with linear horizontal scaling.

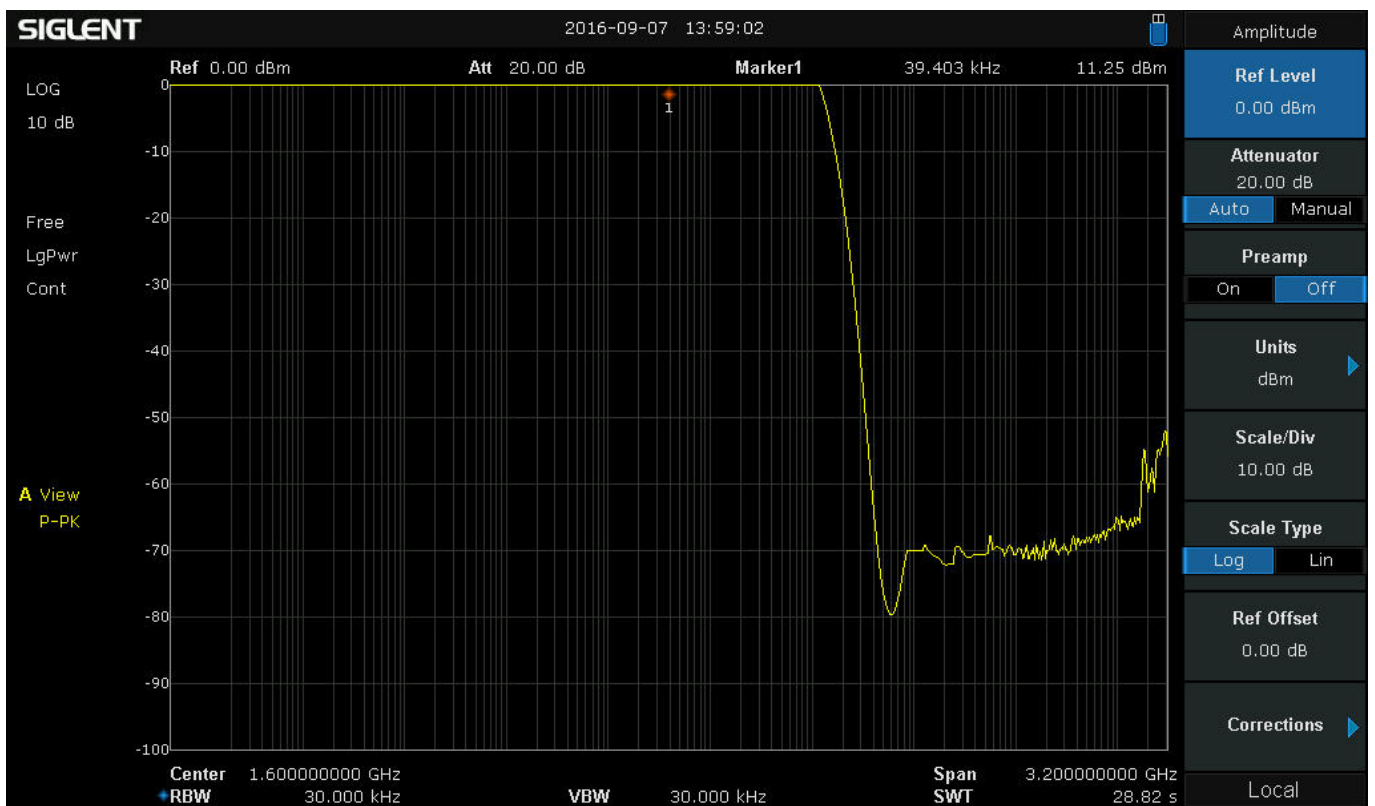


Figure 2: Screenshot of an SSA3000X with log horizontal scaling.



### **North American Headquarters**

SIGLENT Technologies America, Inc  
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 EUROPE 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)