

## Key Features

- OLED Display and control buttons
- 35 to 4400MHz Coverage
- Extended Coverage to 8800MHz with Doubler
- >7 dBm Output
- USB PC Interface
- Industry Standard SCPI Commands

# SG4400L

## SIGNAL GENERATOR



### SG4400L, A wideband RF Signal Generator

The SG4400L enables users to generate a high quality RF/Microwave sine-wave in a compact package. A OLED display and two buttons allow frequency selection/entry. The RF output covers 6 octaves from 35 to 4400MHz or to 8800MHz with the optional doubled output. The produced sine-wave wave is fully synthesized using modern fractional N synthesis. The step size of the non doubled RF output varies from a maximum of ~1.5KHz to less than 25Hz , depending on band of operation. The synthesized source can accept an external 10MHz reference or it can use its own internal 10MHz (Auto Detect). Output power is typically above +7dBm and can be turned ON/OFF via USB commands.

### Ease of Use

The SG4400L can be controlled from its front panel display and buttons or its USB port and a host PC. The user connects the PC to SG4400L and with provided software frequency output can be controlled as well with RF ON/OFF function.

### Signal Generator USB Operation

With the SG4400L connected to the PC via USB port, industry standard SCPI commands are used to control frequency and RF output ON/OFF. The USB port is configured on the host PC as a COM port. This feature allows users to control the SG4400L for automated test applications.

The OLED display allows the user to see command frequencies that come from the USB interface or the two UP/DOWN buttons.



# SG4400L

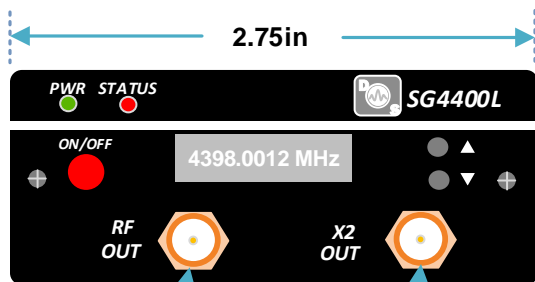
## SPECIFICATIONS

Conditions: 25° C, Internal 10MHz Oscillator, USB supplied power

Parameter	Min	Max	Typ	Units
Output Frequency Range ( w/ Opt. 1 Doubler)	35	4400 (8800)		MHz
Output Power	+6	+11	+8	dBm
x2 Output Power (Opt. 1)	+6	+9	+7	dB
Output Flatness	-3	+3	+/-2	dB
Output Flatness (Opt. 1)			+/-2	dB
Phase Noise @ 4.4GHz, 10KHz Offset (-6dB for each sub-octave, +6dB for x2 Opt. 1)			-83	dBc
Output VSWR		1.5:1	1.3:1	VSWR
Output Power @ Min Setting			-20	dBm
Step Size (decreases by 2 as RF band reduces)	<25	<1500		Hz
10MHz Reference Input power Range (Opt. 2)	-20	+15		dBm
DC Power Input thru USB Port	4.75	5.2		vdc

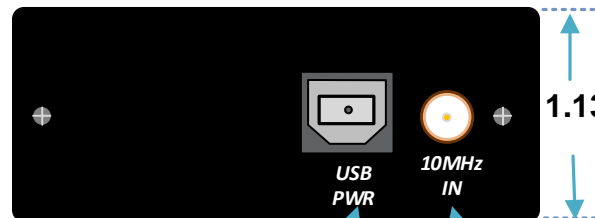
## SG4400L Front and Rear Panel Features

**CASE DIMENSIONS:**  
1.13(H)x2.75(W)x6.0(L) in.



SG doubled output Signal (SMA), to 8800 MHz @ +7dBm (typ), Opt.1

SG output Signal (SMA), 32 to 4400 MHz, +8dBm (typ)



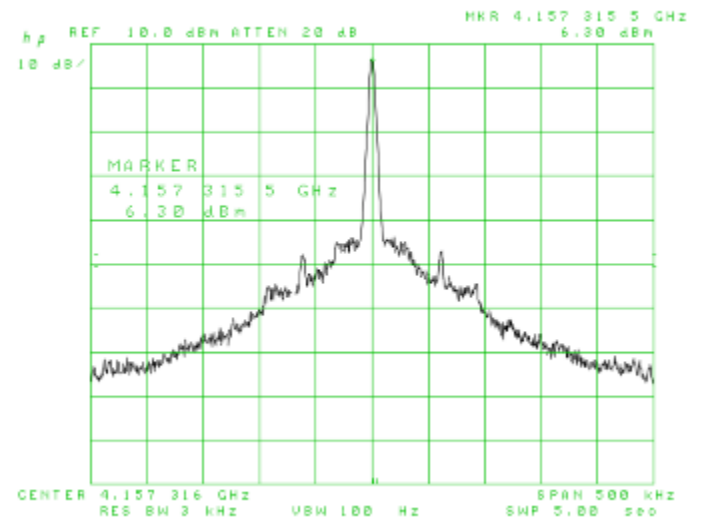
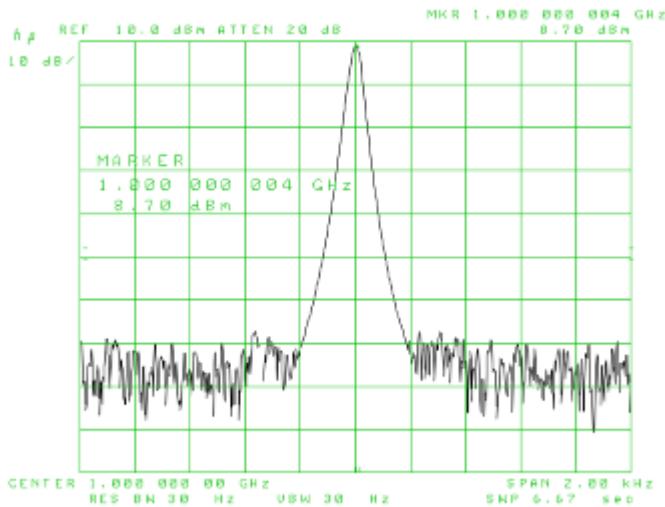
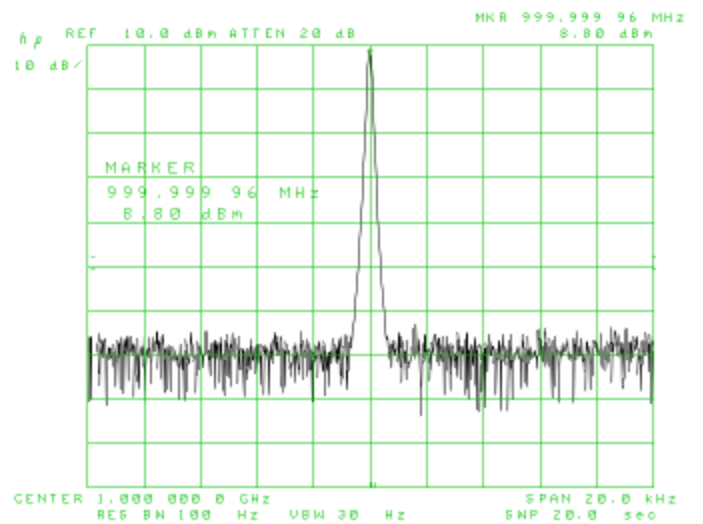
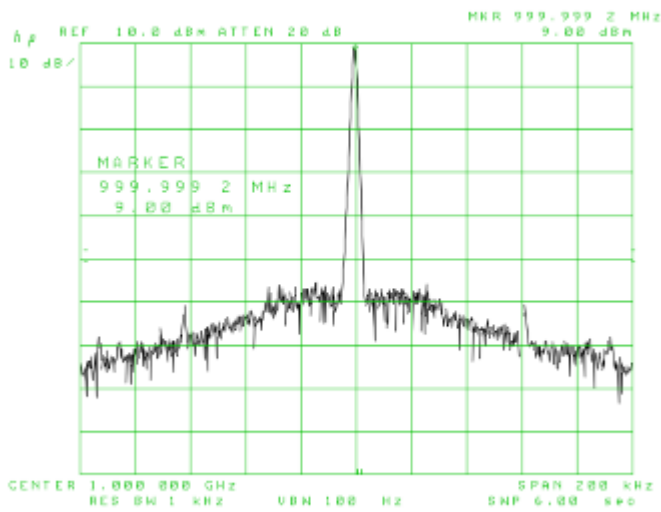
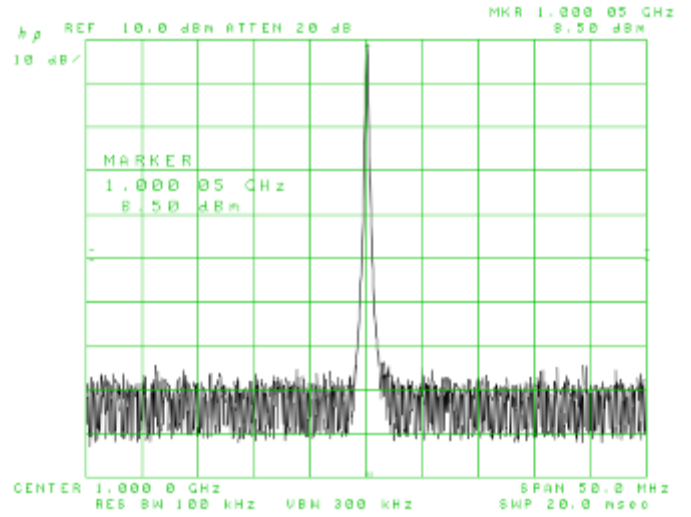
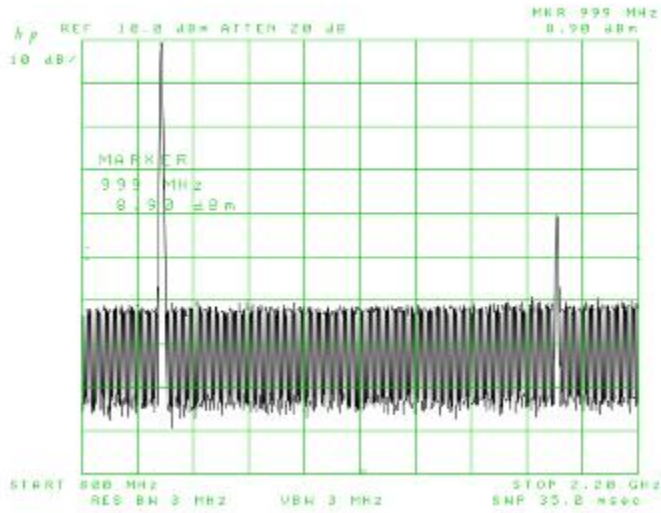
Opt.2, External 10MHz reference IN (SMA)

USB Interface to PC and DC Power Input

# SG4400L

## Typical Output Power Spectrums

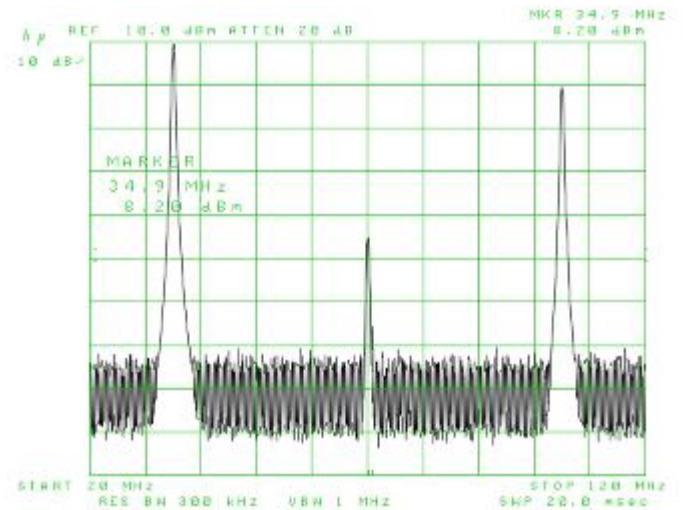
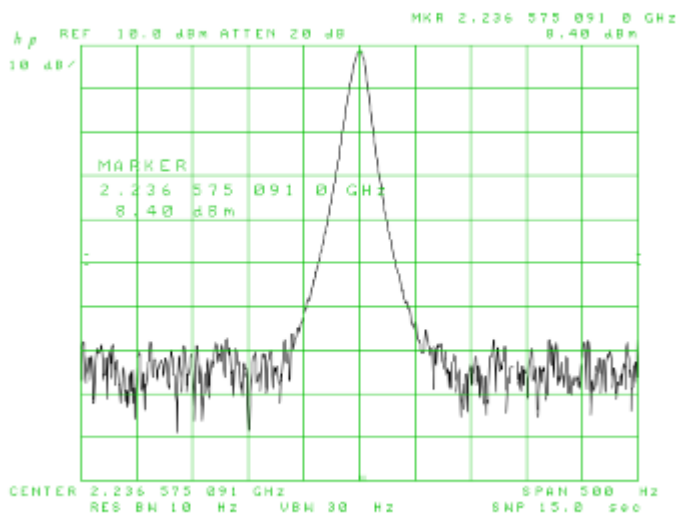
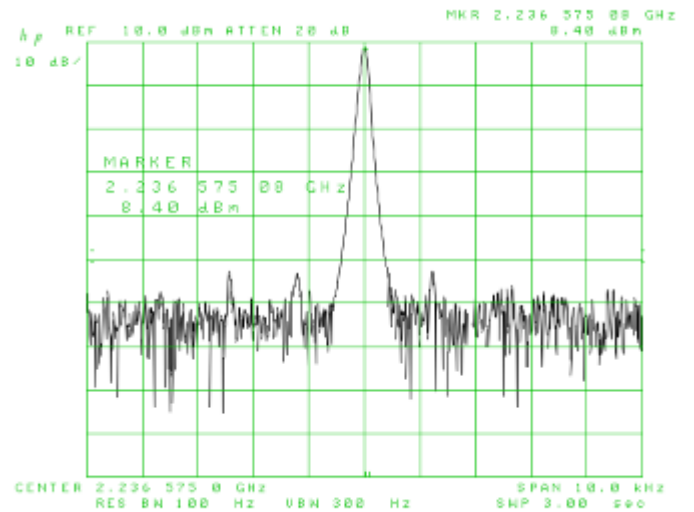
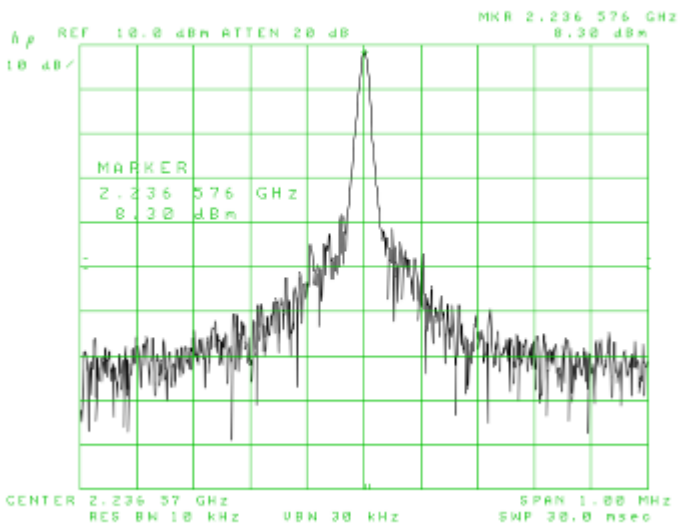
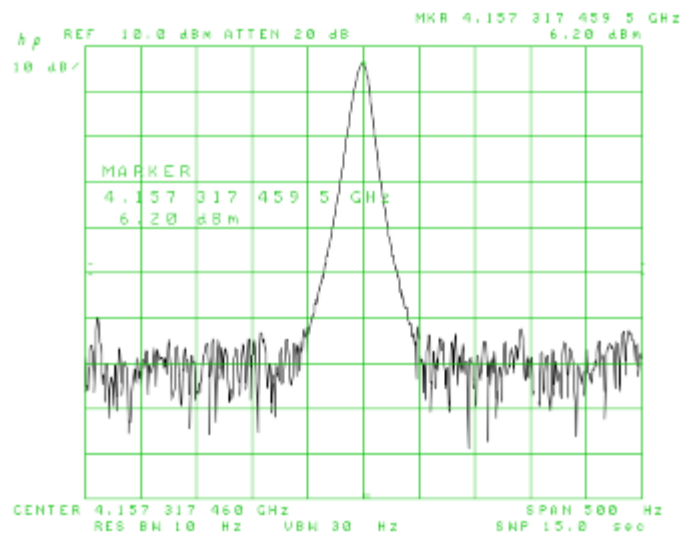
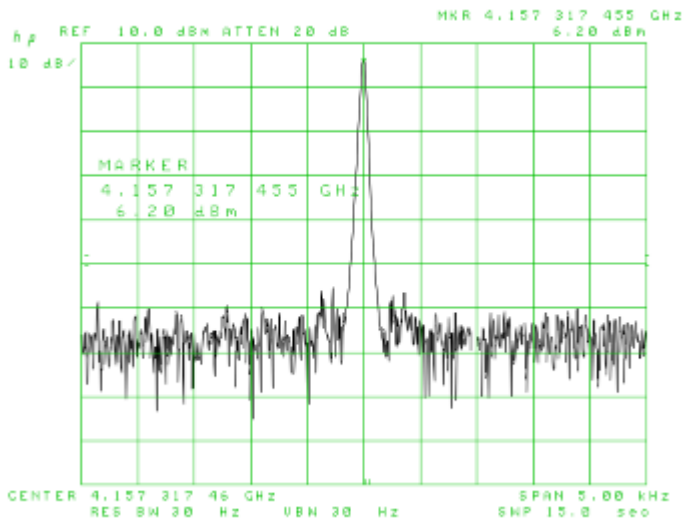
[ 25 Deg. C, USB Power , 10MHz supplied by Spectrum Analyzer ]



# SG4400L

## Typical Output Power Spectrums, Cont.

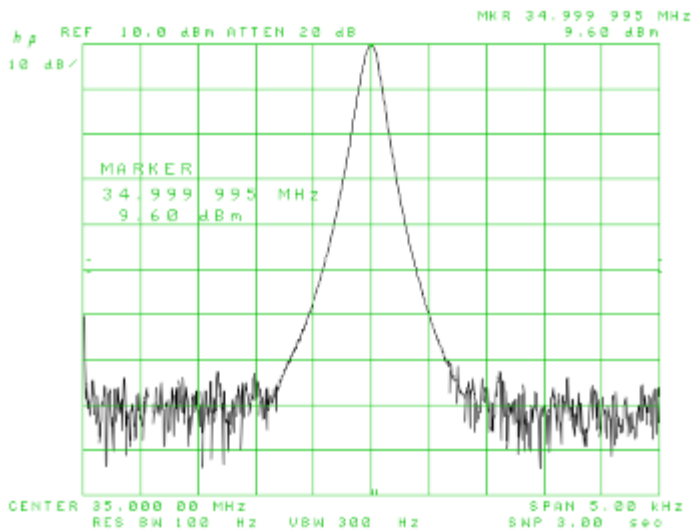
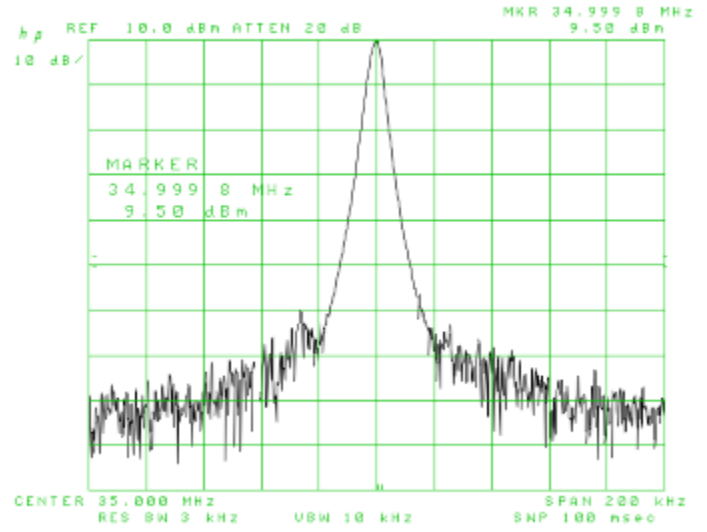
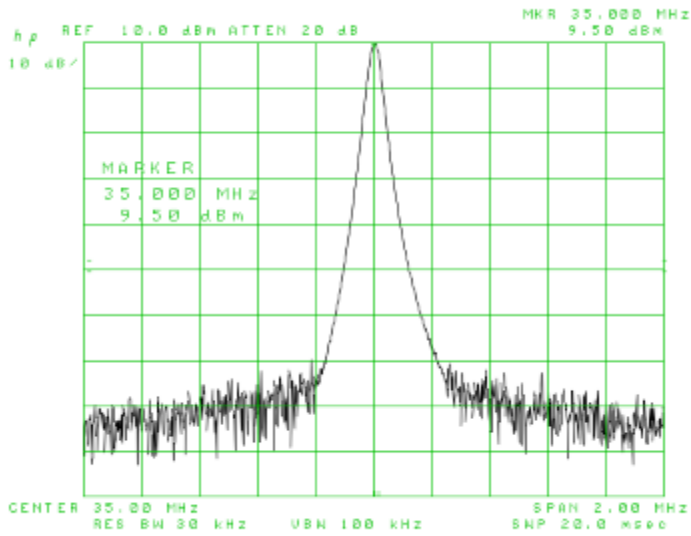
[ 25 Deg. C, USB Power, 10MHz supplied by Spectrum Analyzer ]



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## Typical Output Power Spectrums, Cont.

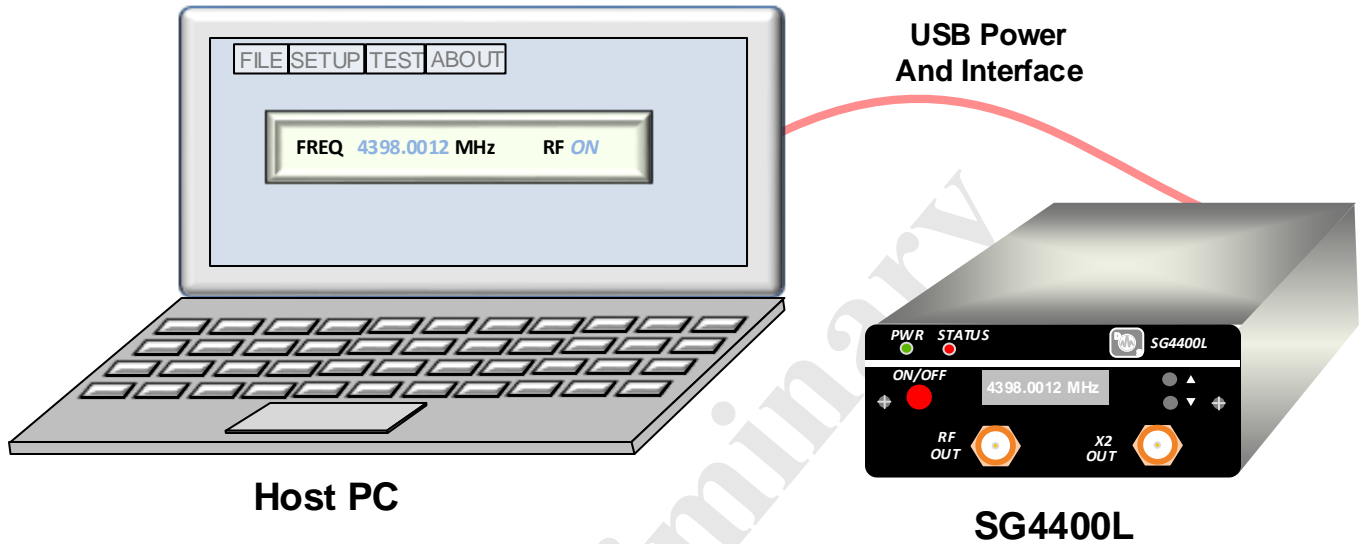
[ 25 Deg. C, USB Power , 10MHz supplied by Spectrum Analyzer ]



# SG4400L

## Typical User connections for remote Operation via USB

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## Ordering Information

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Model SG4400L, 32 to 4400MHz	\$495.00
Option 1, Doubler Output (to 8800MHz)	+ \$400.00
Option 2, External 10MHz input	+ \$65.00