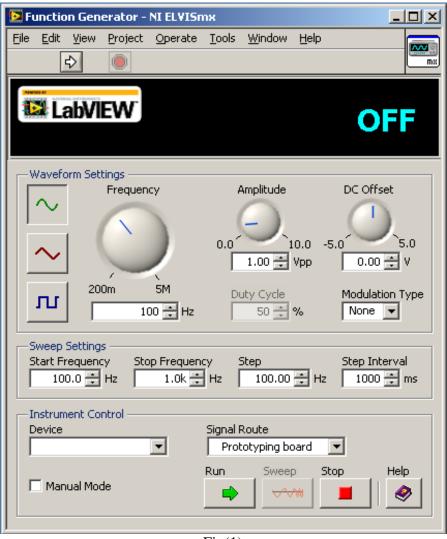
- Install run time engine program to operate the Function Generator, Oscilloscope and Dynamic Signal Analyzer as shown in figure below.
- To run the Functions Generator press the 🖄 from the tool bar, Then press the from the Function Generator as illustrate in Fig(1), then set the values shown in the table()



Fig(1)

Set up the Function Generator, Oscilloscope and Dynamic Signal analyzer and set all as shown in table:

Wave Form Shape	Sinusoidal
Frequency	2KHz
Amplitude	4.00 Vp-p

set the values for the Scope as follows

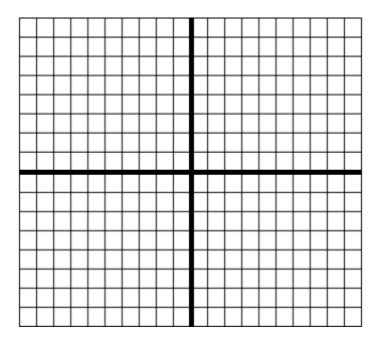
	Channel 0	Channel 1				
Volts/Div	1 V	1 V				
DC offset	0 V	0 V				
Time/Div	200µ sec					

set the values for the DSA as follows

Input Settings	Source Channel to Channel 1					
	Frequency span to 45,000					
FFT Settings	Resolution to 400					
	Windows to 7 term B-Harris					
Trigger Settings	Edge					
	Units to dB					
Frequency Display	Mode to RMS					
	Scale to Auto					
	Mode to RMS					
Averaging	Weighting to exponential					
	# of averages to 3					

Table (1)

Run the Oscilloscope at Ch0 and sketch the input signal.



## Record V<sub>p-p</sub>:

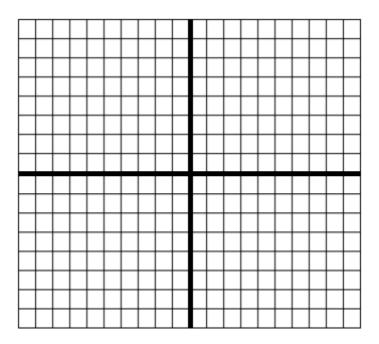
> Run the dynamic signal analyzer and Sketch the input power signal.

_	 	 	 	 	 _	 	 	 	 	

Determine the power signal for the input signal in  $dBV_{rms}$  value at:

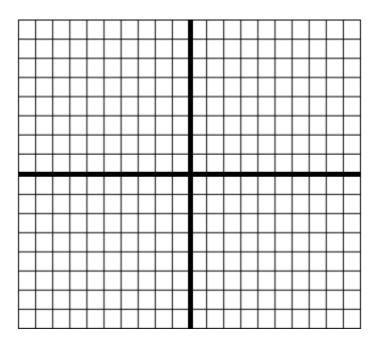
Frequency (Hz)	Power dBV <sub>rms</sub>
15K	
20K	
25K	
30K	
35K	

Change to the Ch1(output) and Sketch the output signal:



Record Vout<sub>p-p:</sub>

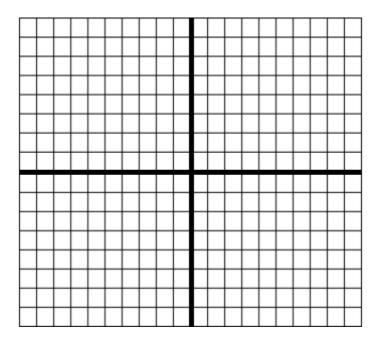
Sketch the output power signal:



Determine the output power signal in  $d\text{DV}_{\text{rms}}$  at value:

Frequency (Hz)	Power dBVrms
15K	
20K	
25K	
30K	
35K	

Sketch the input and the output signal (ch0, ch1) dual.



aliasing

Determine the frequency of the first six aliases in the sampled message.

1-

- 2-
- 3-
- 4-
- 5-
- 6-

Sketch the first aliasing waveform:

