FFT measurement using the 54600 Oscilloscope
Part 1. AM Modulation

1. Display the time domain signal of which you like to take the FFT, on the oscilloscope (e.g. on channel 1 or 2).
2. Adjust the time scale (Time/Div) knob so that you see about 10 periods of the signal.
3. Hit the Math [+/-] key, located on the vertical display panel, between the two channel keys.
4. Hit the menu key (underneath the display): Function 2: ON. This will show a new set of menus, shown at the top of the Fig. 1.
5. Hit the FFT menu key. This will show the FFT and bring up a new set of menu keys.
6. To see only the FFT signal without the time domain signal, hit the channel key [1] until the signal disappears. To return to the FFT menu, press the Math [+/-] key again.
7. You can now adjust the scale of the FFT:

Figure 1: Picture showing the menus and set up for FFT display.
a. Hit the Center Frequency key. You can change the center frequency by rotating the knob on top of the oscilloscope panel (see Fig. 2).
b. The change the span (and thus the scale) over which to display the spectrum, hit the Frequency Span key and use the knob to change the value.
c. In case you cannot get the right values of the center frequency and span, you can change the Time/Div key. This will change the sampling frequency and also the frequency range and span. Once these are in the right range, you can use the Cent Freq and Freq Span keys to make further adjustments.

Figure 2. Scope adjustment for showing FFT of AM signal, Cent. Freq = 99.61KHz, Freq Span= 61.04 KHz

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