ENGINEERING NOTE	SECTION	PROJECT		SERIAL CATE	GORY	PAGE /
SUBLIECT			NAMÉ	·		
Beam Signals Lab.			DATE		REVISION DA	₹E
Purpose Understand concepts	n≠ At	T an		E M		le tina
Equipment	(SA)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
·	(WG)					
Procedure						
1.) Set W6 to	,					
Sine Wave Free = 1 MHz Amp = 50mi	· Ver					
AM modula Modulation Modulation	tion on freg = 1 t Depth = 5	tz 07.				
2) Sketch a disple	ay of	the	Sco	pe.		
3) Set the SA to						
/ MHz -=	Center	free				
OMHz =	Span		•			
10 sec =	Sweepti	me				
Scale =	Line	er,				
Sketch the displ			ک	A		

Beam Signals Lab

- 4) Change modulation depth on WG to 1.00% Sketch the display on the SA Set mod. frequery to 2Hz

  Sketch the display on the SA
- 5)a)On the WG Set mod freq to 1kHz Set mod depth to 25%
  - 6)On the SA

    Set span to 10 kHz

    Set sweep time to auto

    Set scale to log.
  - c) Record :

Number of Sidebands

The frequency spacing of the sidebands

The amplitude of the sidebands

with respect to the carrier.

d) Change the modulation depth to 50% and repeat 5c.

Change the modulation depth to 100% and repeat Sc.

Set the modulation freq to 100 Hz

Repeat 5c. (Do only the first 4 sidebands)

Sketch the spectrum.

Zoom in on a spectral line. What is the spacing between lines.

8) Turn on AM modulation on WG. Set AM Nepth to 10% of Set AM freq to 30 kHz. Sketch Freq Spectrum.

9) Turn off ATT modulation on WG.

Set the Frequency to 200 kHz on WG (still use the Sinc function)

Set the Burst Count to 10.

Set the Burst Rate to 20 kHz.

Sketch Display on scope

Sketch Spectrum.

