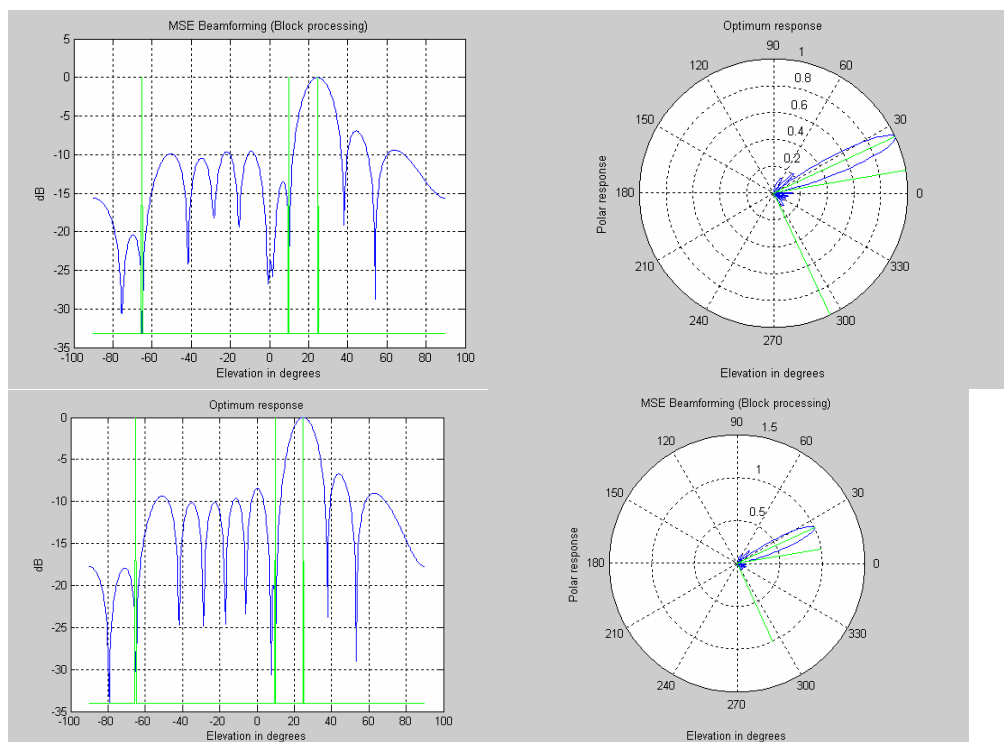
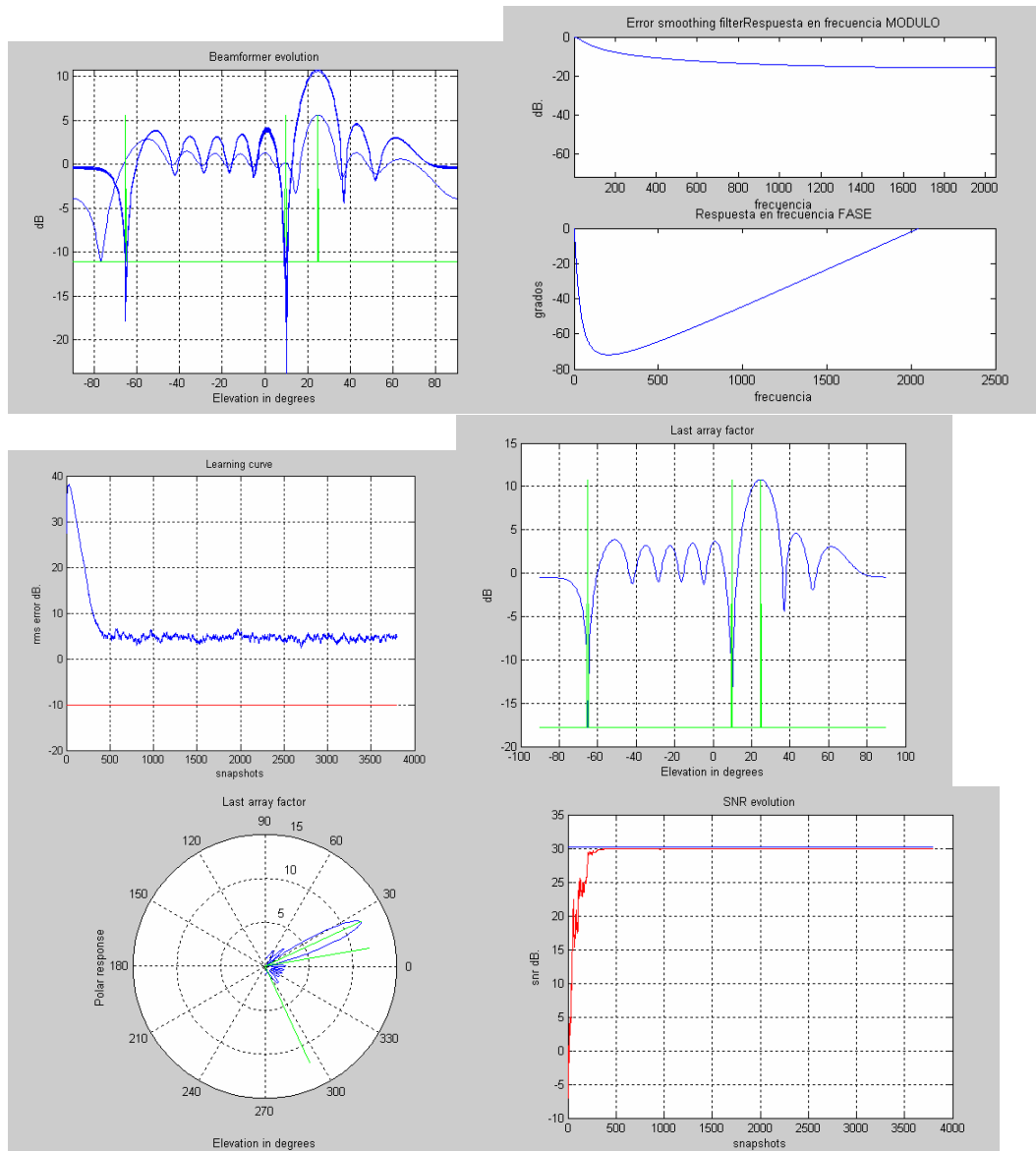


EJECUCION CON NLMS Y REFERENCIA EXACTA (FUNCIONA)

```
>> ada_arr
Number of snapshots.....3800
Linear array
Number of aperture sensors....11
Field of view.....-90 90
Number of sources.....3
Sources elevation in degrees 10 25 -65
Sources azimuth in degrees 0 0 0
Modulation of source 1
PSK
Modulation of source 2
Unmodulated
Modulation of source 3
PSK
The reference source will be source number...2
Central frequency of every source...0.2      0.1      0.25
Source levels in dB.....24 20 25
Actual reference
```

```
-----
NLMS algorithm
Missadjustment equal to 10%
End of the program
```





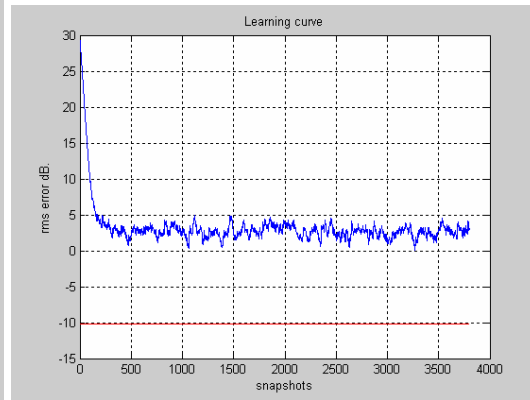
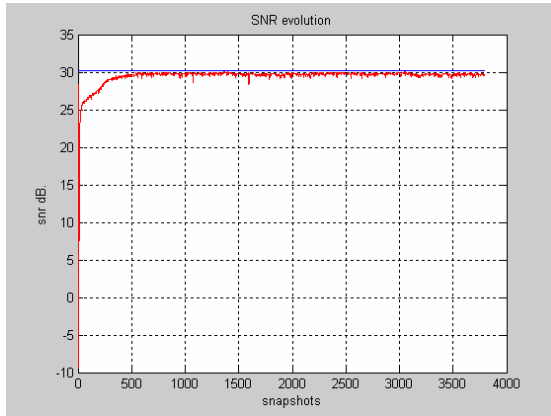
EJECUCION CON SQRLS Y REFERENCIA EXACTA (FUNCIONA)

```
>> ada_arr
Number of snapshots.....3800
Linear array
Number of aperture sensors....11
Field of view.....-90 90
Number of sources.....3
Sources elevation in degrees 10 25 -65
Sources azimuth in degrees 0 0 0
Modulation of source 1
PSK
Modulation of source 2
Unmodulated
Modulation of source 3
PSK
The reference source will be source...2
```

Central frequency of every source...0.2 0.1 0.25
 Source levels in dB.....24 20 25
 Actual reference

 SQRLS algorithm
 End of the program

>>



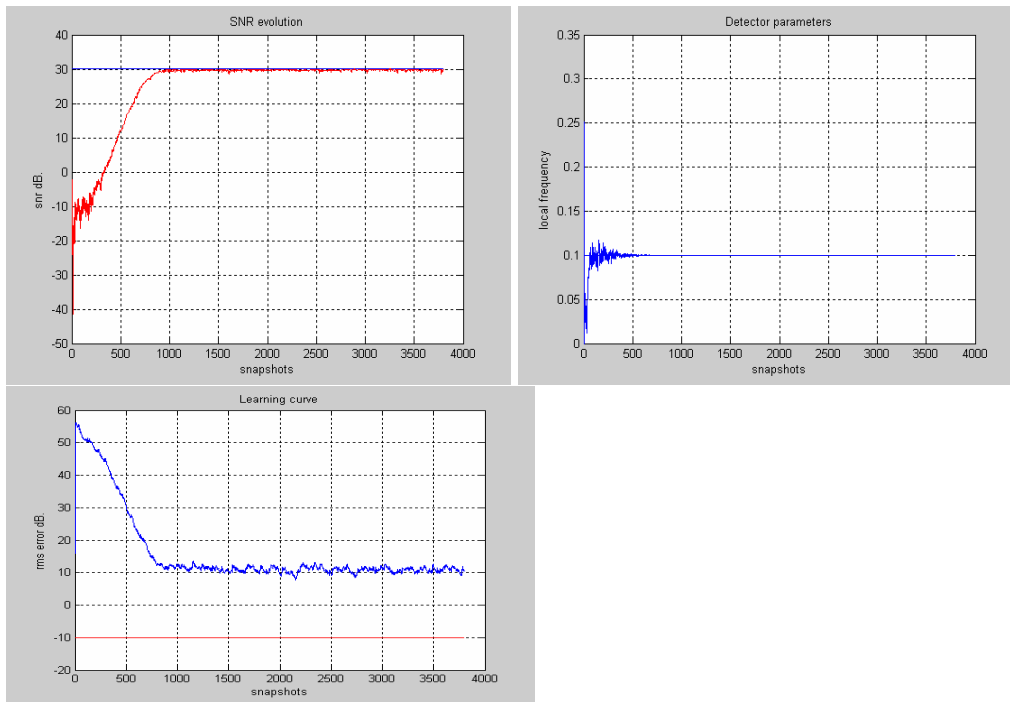
EJECUCION CON NLMS Y REFERENCIA REGENERADA (NO FUNCIONA)

```
>> ada_arr
Number of snapshots.....3800
Linear array
Number of aperture sensors....11
Field of view.....-90 90
Number of sources.....3
Sources elevation in degrees 10 25 -65
Sources azimuth in degrees 0 0 0
Modulation of source 1
PSK
Modulation of source 2
Unmodulated
Modulation of source 3
PSK
The reference source will be source number...2
Central frequency of every source...0.2      0.1      0.25
Source levels in dB.....24 20 25
Reference regenerated at the array output
```

 NLMS algorithm
 Missadjustment equal to 10%
 End of the program

>>

EJECUCION CON SQRLS Y REFERENCIA REGENERADA (FUNCIONA)



Para escenarios 2-D tomar la opción al ejecutar de apertura planar.

El array se genera en `arr_dat.m`

El escenario se genera en `sce_dat.m`

Los snapshots y la matriz de covarianza se generan en `sna_pro.m`

`Al_nllms.m` contiene el LMS normalizado

`Al_sqrls.m` contiene el Square-Root RLS

`Ekf_kalman.m` contiene el estimador de frecuencia por Kalman

`Filtro.m` es un filtro de dos coeficientes que se emplea en el suavizado de la curva de learning.

`Sca_1d.m` `Sca_2d.m` y `Sca_alg.m` son rutinas para el dibujo de las sucesivas curvas.