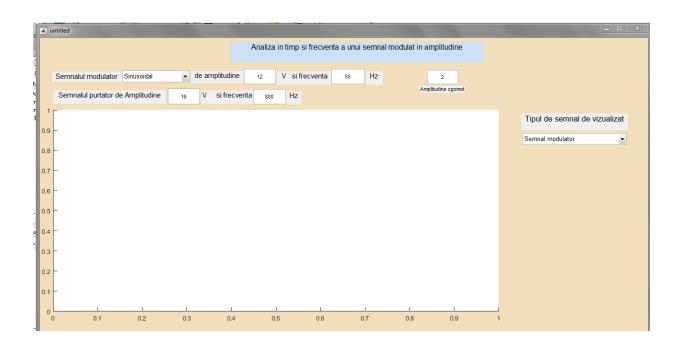
## Rezultate ale simularilor

## Cazul 1: semnal modulator sinusoidal



Amplitudinea modulatorului: 12 V

Frecventa modulatorului: 50Hz

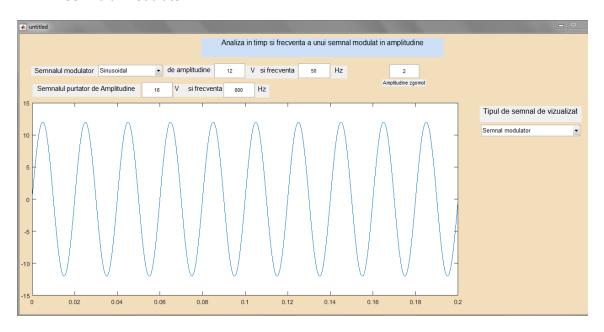
Amplitudinea purtatorului: 16V

Frecventa purtatorului: 800Hz

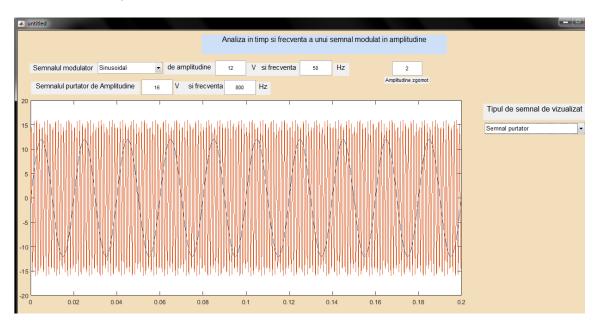
Amplitudinea zgomotului: 2

In functie de optiunea selectata la rubric "Tipul de semnal de vizualizat", in chenarul destinat grafice vor aparea urmatoarele:

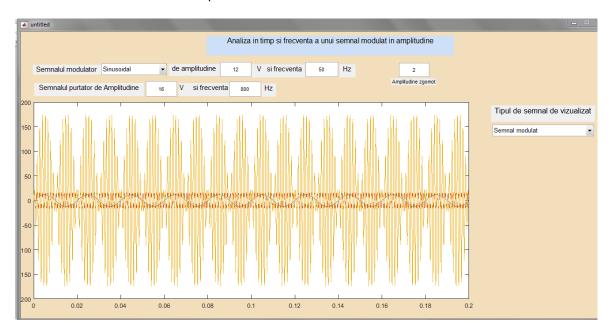
#### • Semnalul modulator:



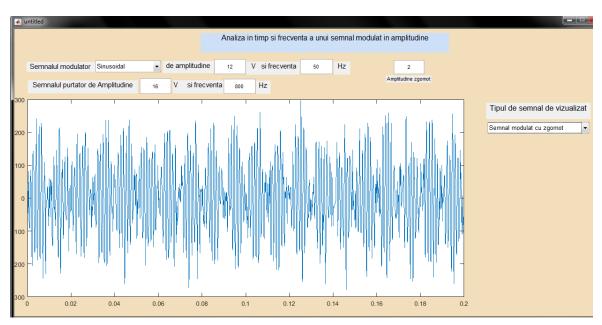
# • Semnalul purtator:



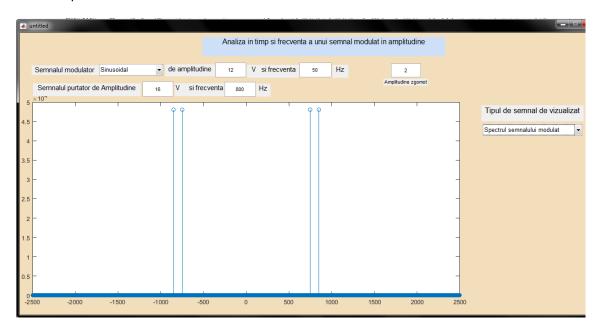
• Semnalul modulat in amplitudine:



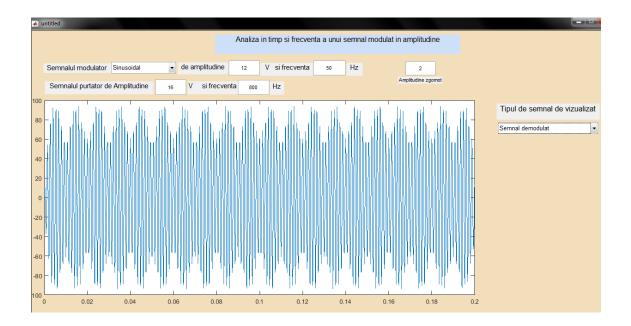
• Semnalul modulat cu zgomot:



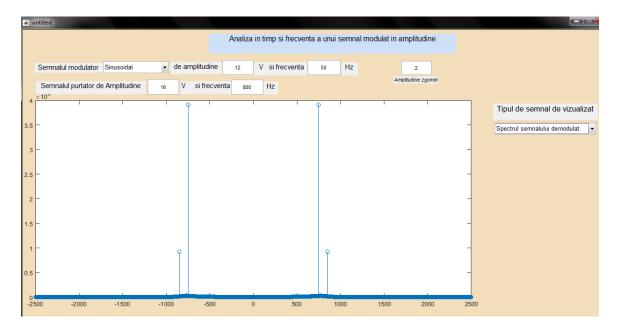
• Spectrul semnalului modulat:



Semnalul demodulat:

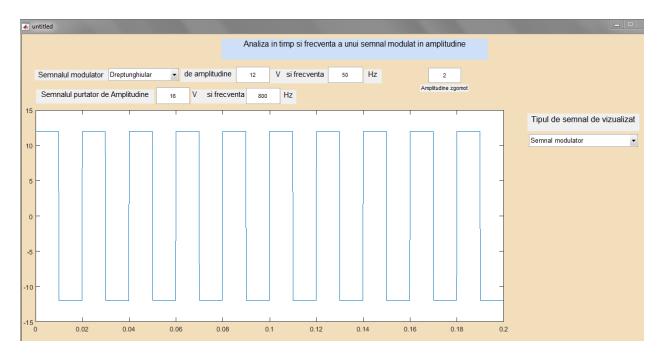


• Spectrul semnalului demodulat:

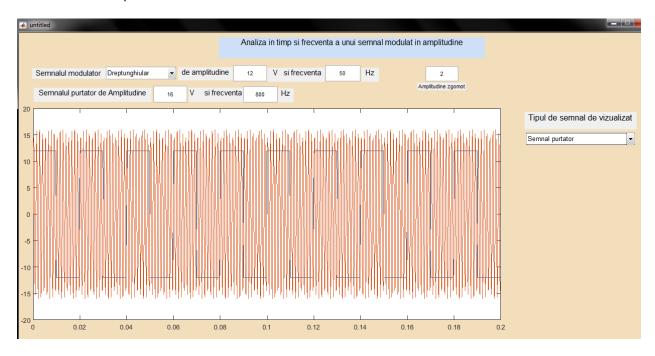


## Cazul 2: semnal modulator dreptunghiular

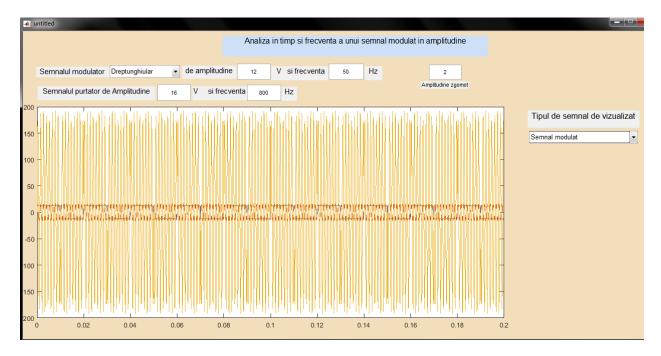
Semnalul modulator:



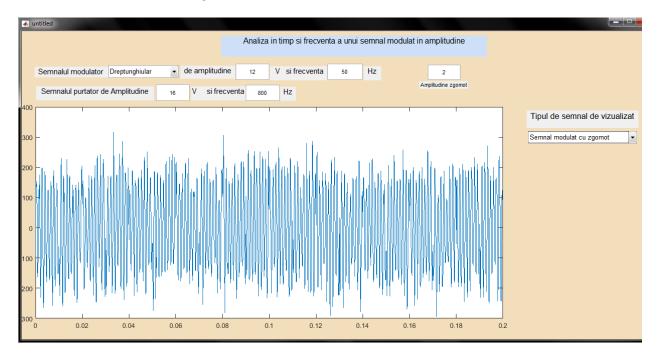
• Semnalul purtator:



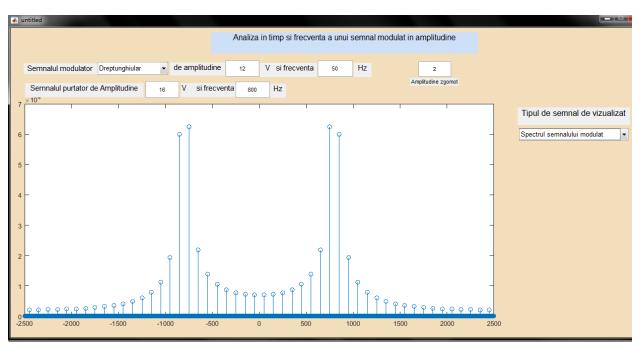
Semnalul modulat:



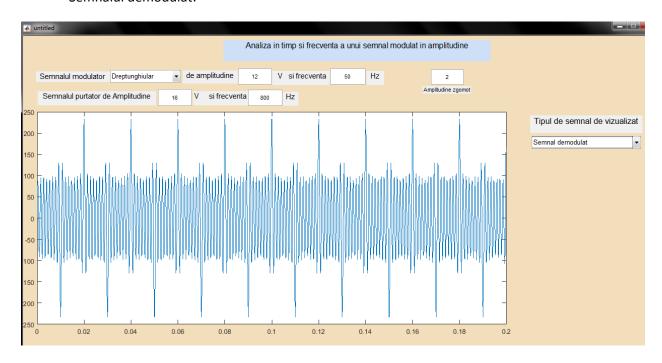
• Semnalul modulat cu zgomot:



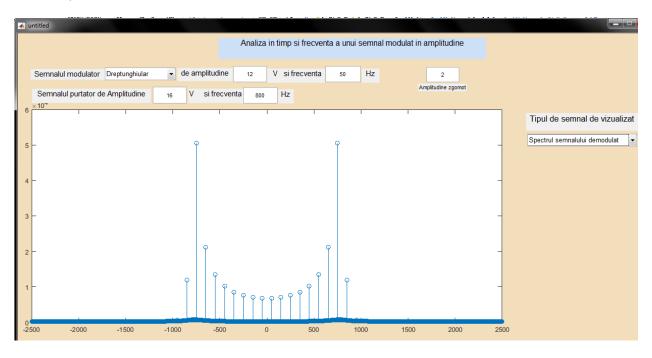
• Spectrul semnalului modulat:



• Semnalul demodulat:

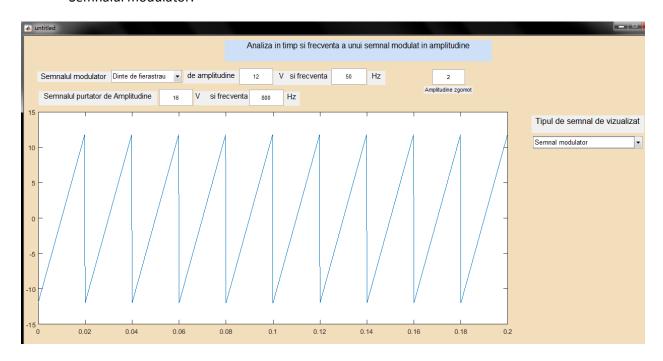


• Spectrul semnalului demodulat:

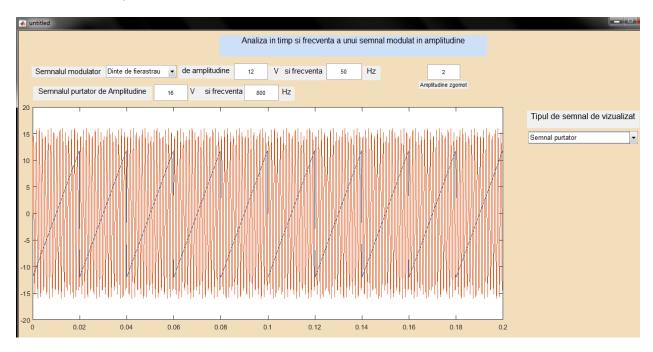


## Cazul 3: semnal modulator dinte de fierastrau

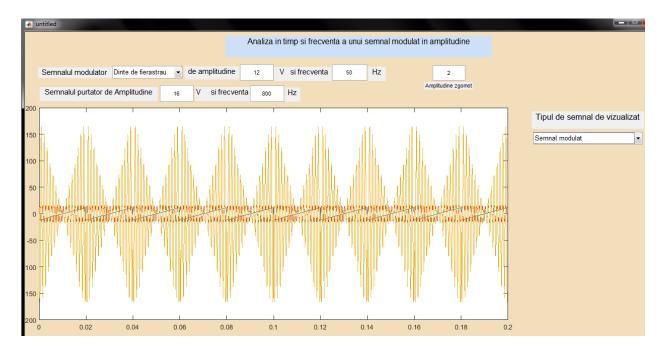
• Semnalul modulator:



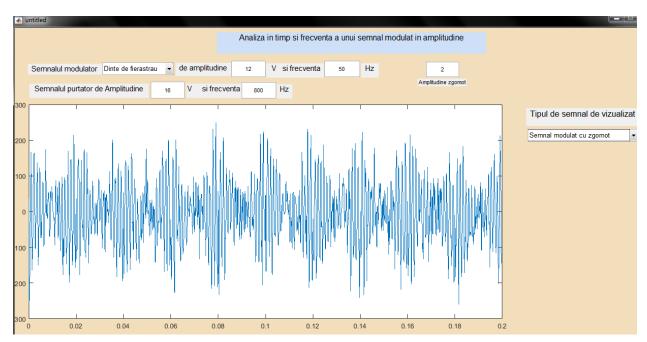
Semnalul purtator:



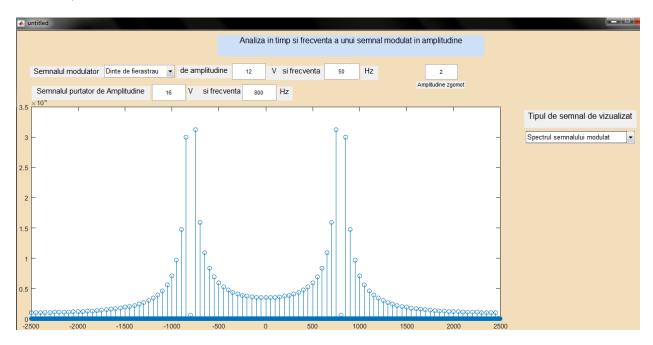
## • Semnalul modulat:



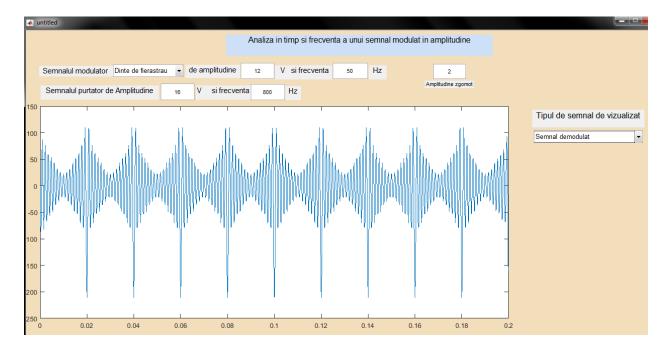
# • Semnalul modulat cu zgomot:



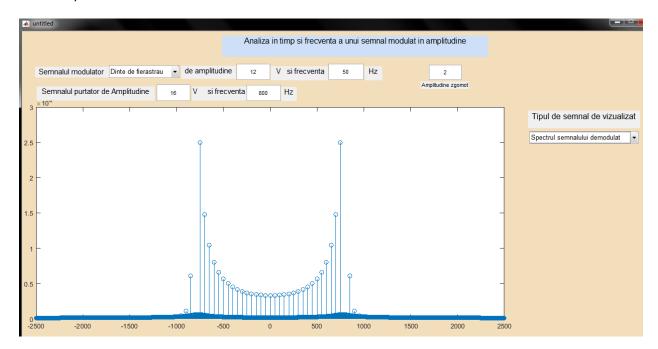
• Spectrul semnalului modulat:



• Semnalul demodulat:

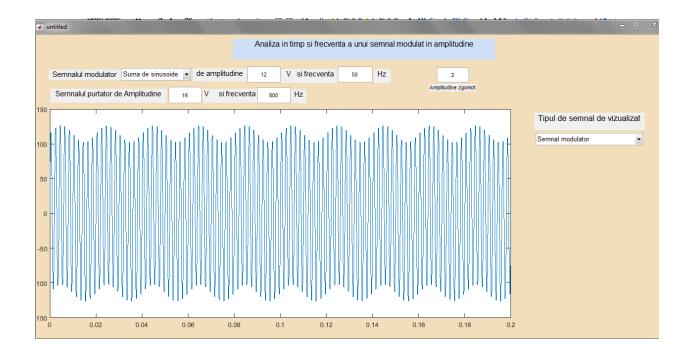


Spectrul semnalului demodulat:

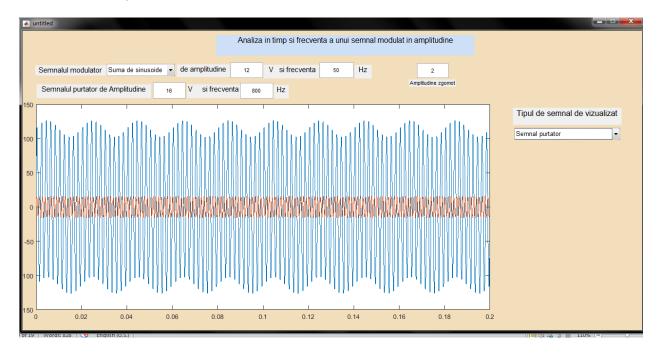


#### Cazul 4: semnal modulator suma de sinusoide

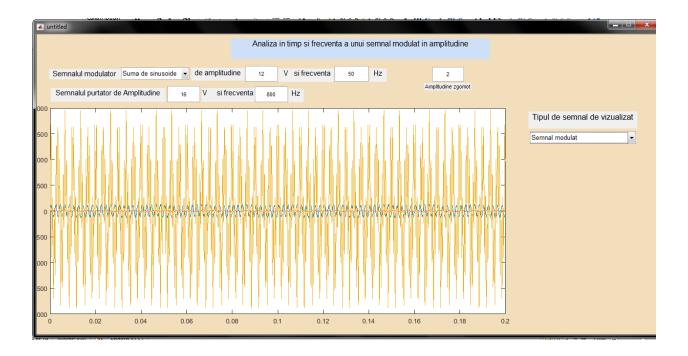
Semnalul modulator:



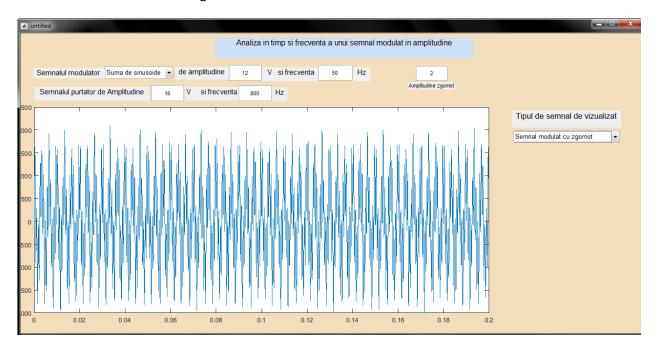
• Semnalul purtator:



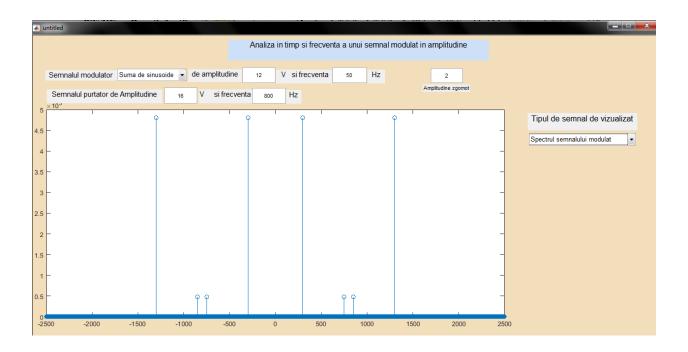
• Semnalul modulat:



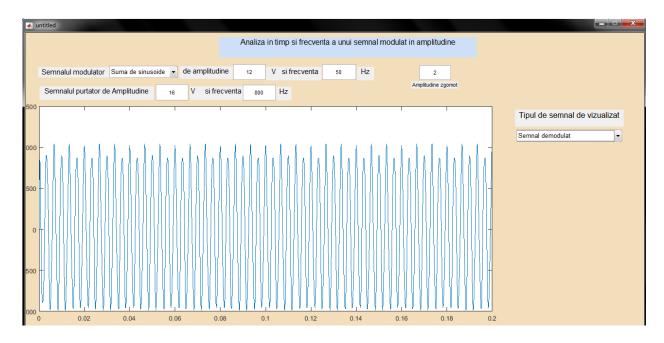
• Semnalul modulat cu zgomot:



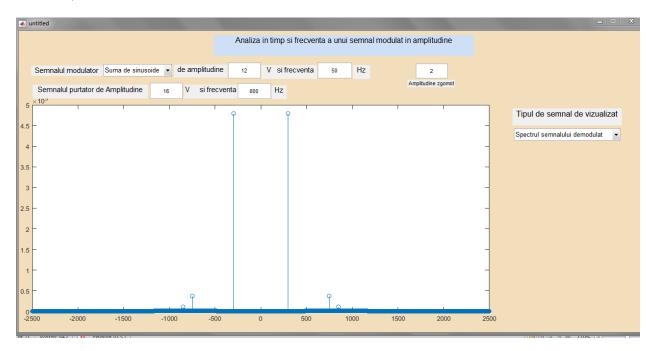
• Spectrul semnalului modulat:



• Semnalul demodulat:



• Spectrul semnalului demodulat:



## Concluzii

- Indiferent de semnalul modulator ales, purtator ramane acelasi, un semnal sinusoidal cu parametrii setati in interfata.
- Proiectul permite vizualizarea semnalului modulat in amplitudine in fiecare etapa: semnalele modulator si purtator individuale, semnalul modulat, semnalul modulat cu zgomot, spectrul semnalului modulat si demodulat.
- Frecventa semnalului purtator trebuie aleasa mult mai mare decat frecventa semnalului modulator.