

Corso di Laurea Magistrale in Ingegneria Civile

TESI DI LAUREA MAGISTRALE

ALLEGATO 1: APPENDICE DEI GRAFICI - PARTE 1

**Prove su tavola vibrante di un silo metallico a fondo piano:  
identificazione dinamica mediante accelerometri**

Candidato:

**Matteo Marra**

Matricola 0000812334

Relatore:

**Chiar.mo Prof. Ing. Stefano Silvestri**

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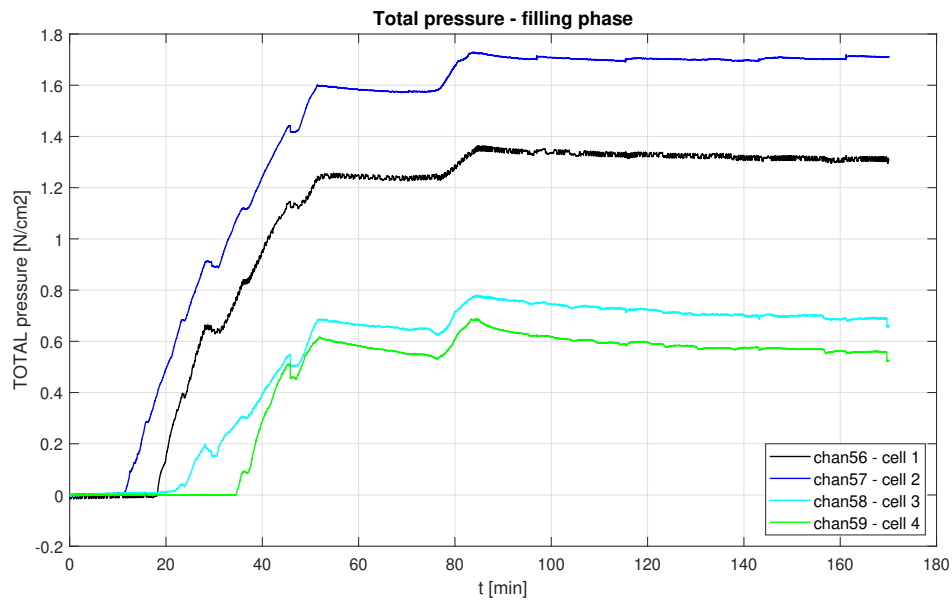


# APPENDICE DEI GRAFICI: PARTE 1

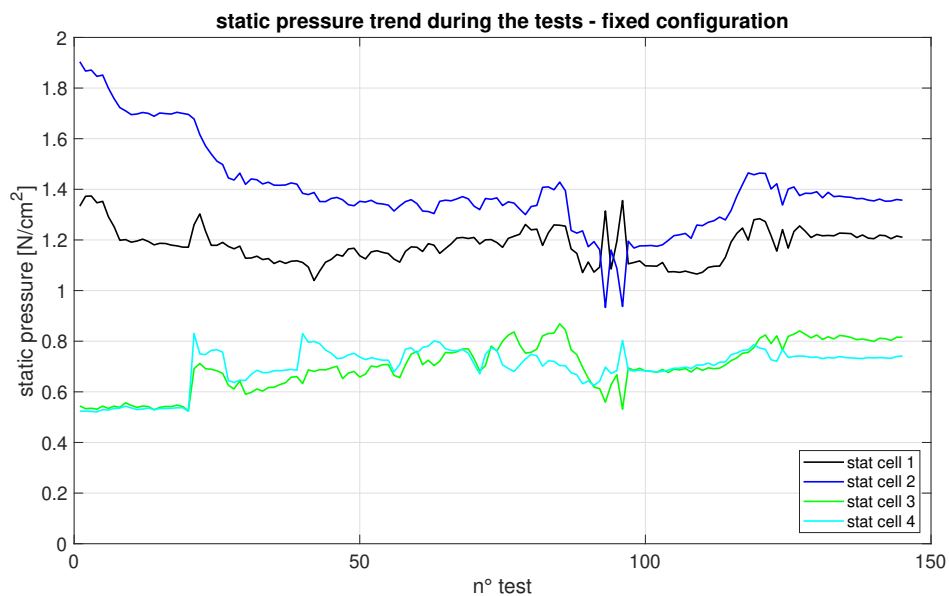
## TESTS IN CONFIGURAZIONE A BASE FISSA

### A.4.1 Celle di pressione

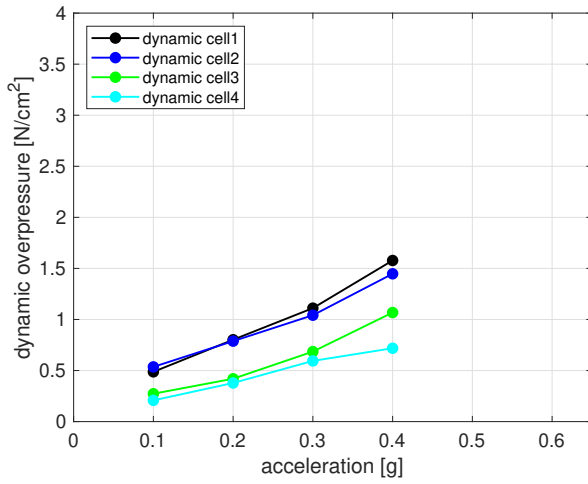
#### Fase di riempimento



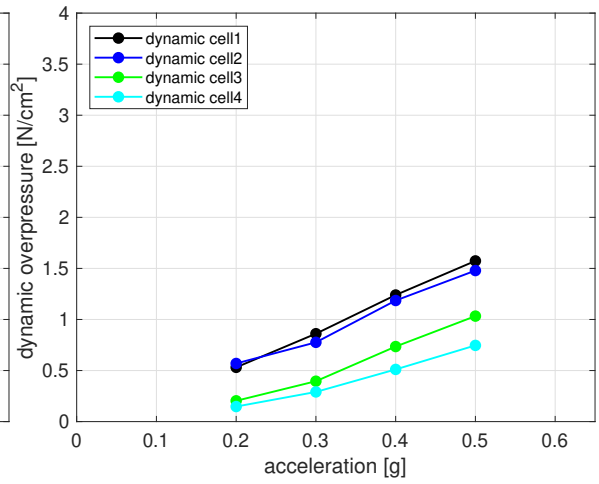
#### Pressione statica



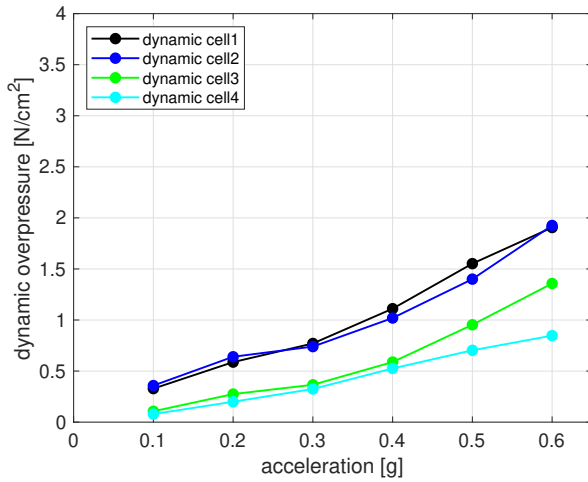
Sovrappressione dinamica durante i test



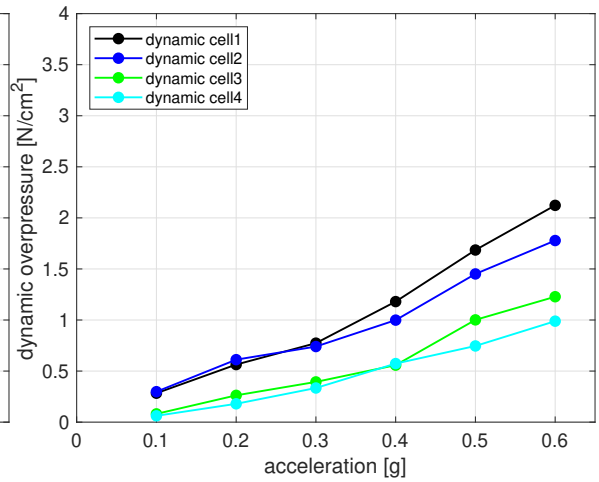
(a) input sinusoidale



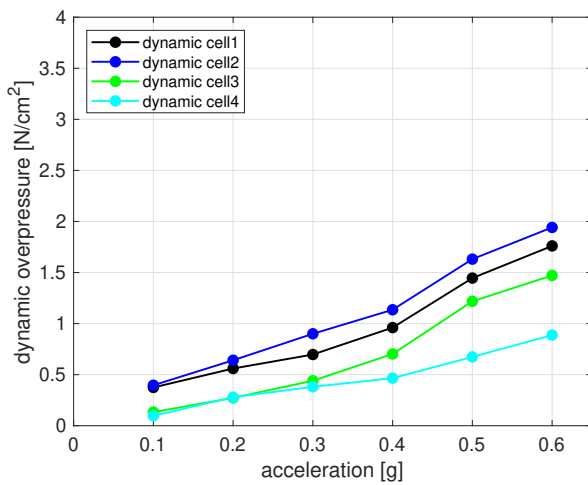
(b) input sinusoidale (dopo compattazione)



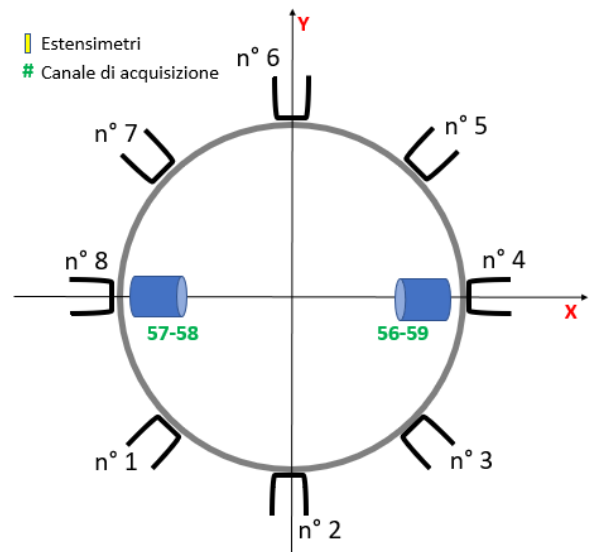
(c) input terremoto A1



(d) input terremoto RS1

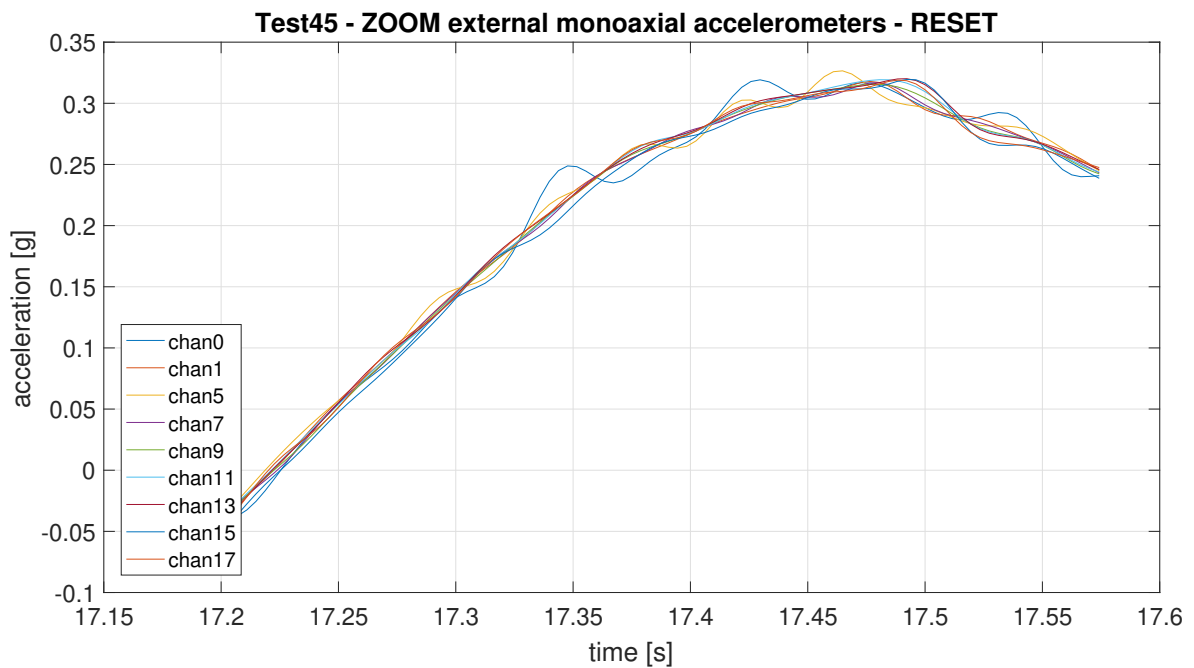
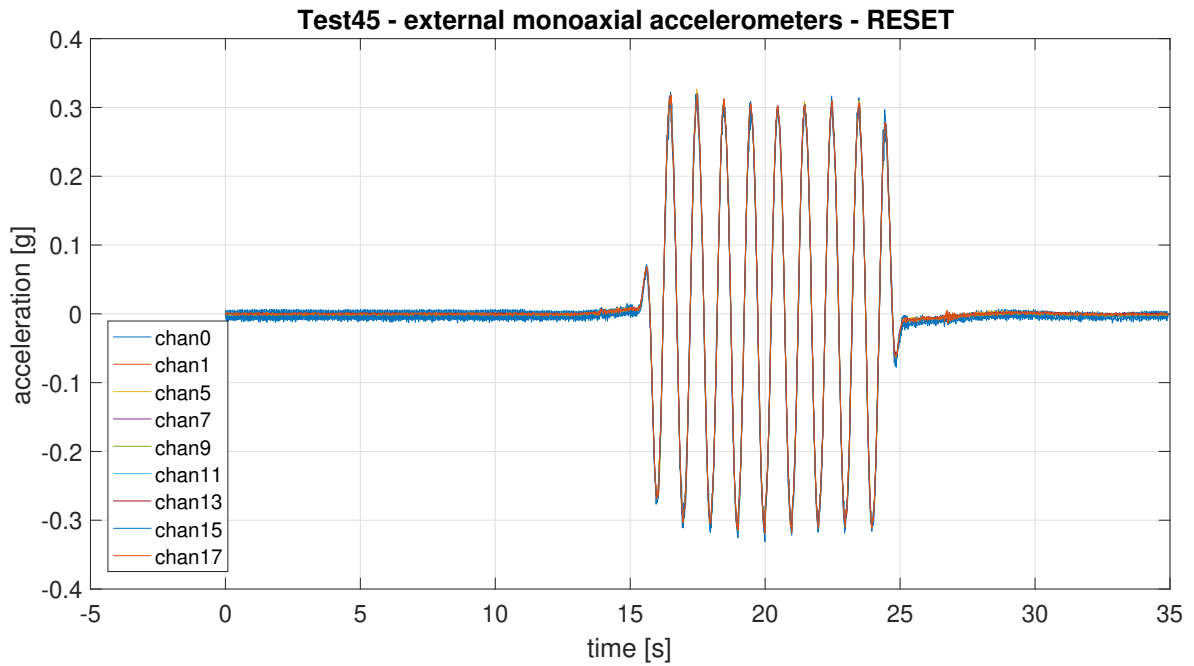


(e) input terremoto RS3

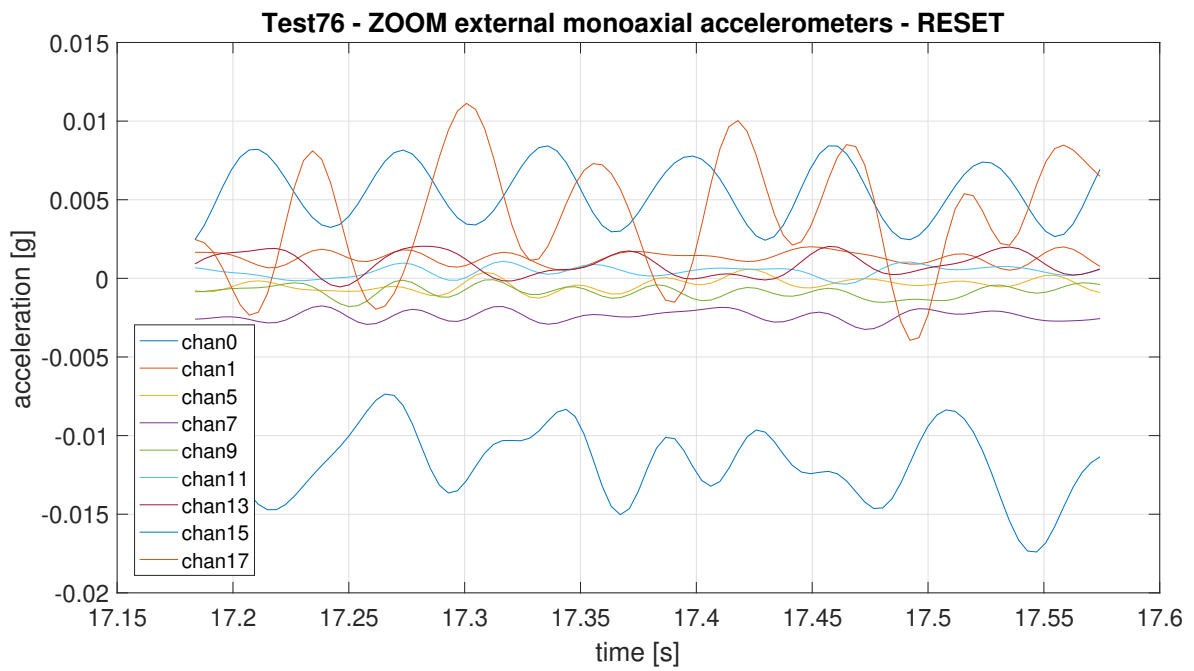
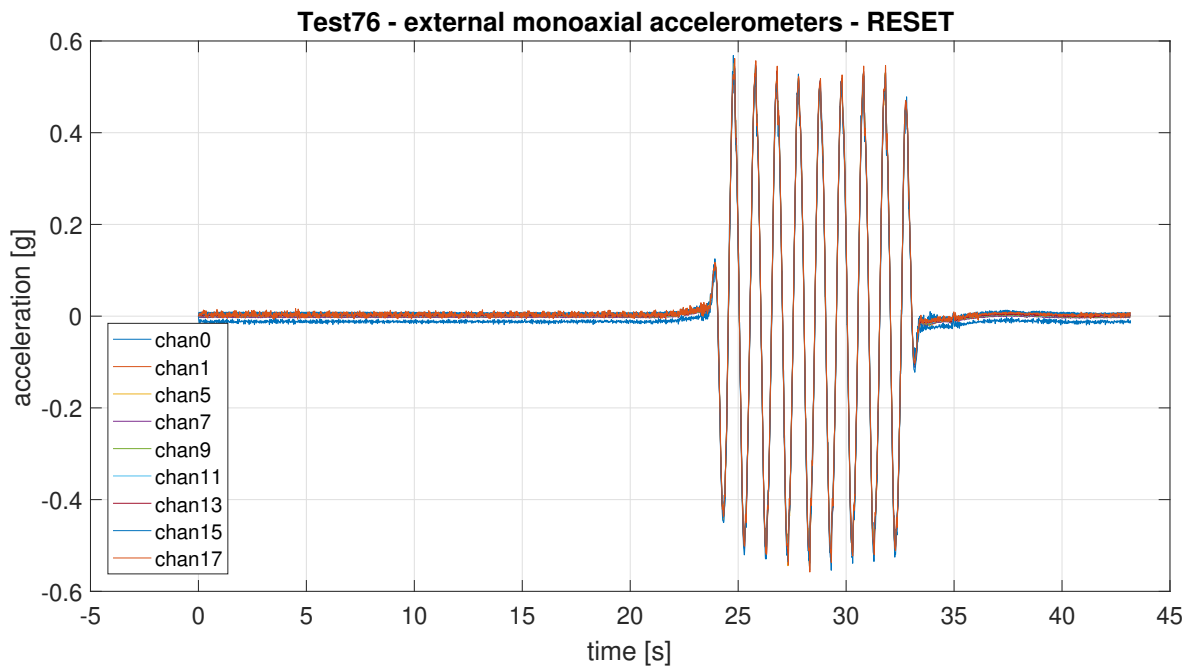


### A.4.2 Accelerometri

- Sinusoide 0.3 g

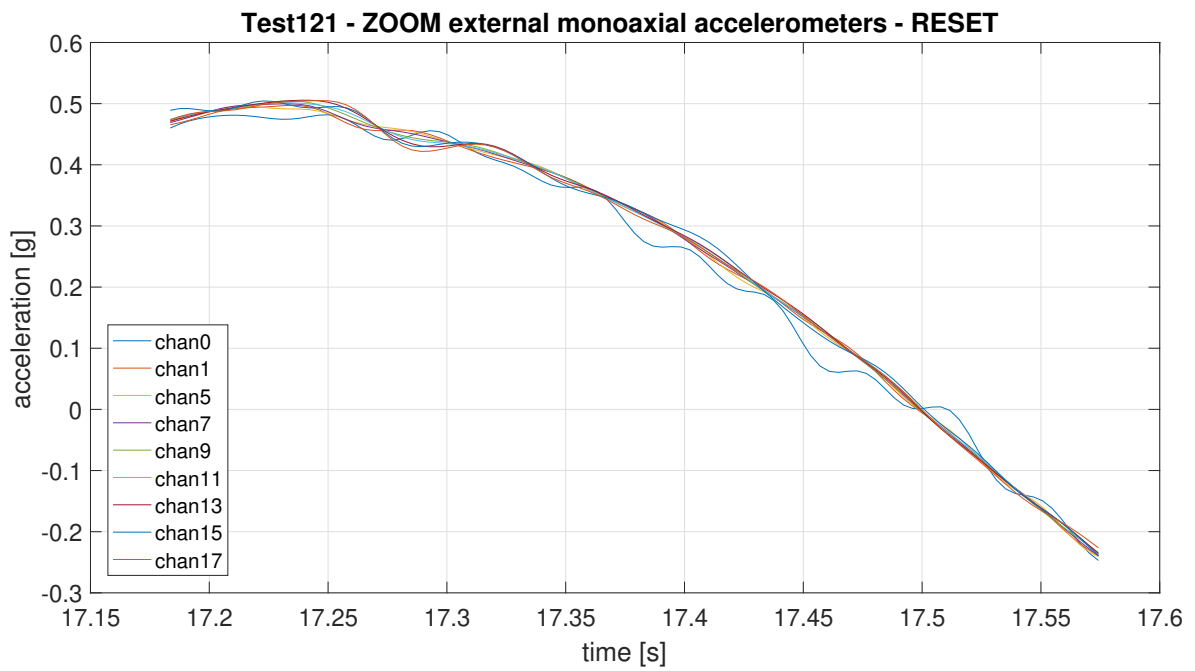
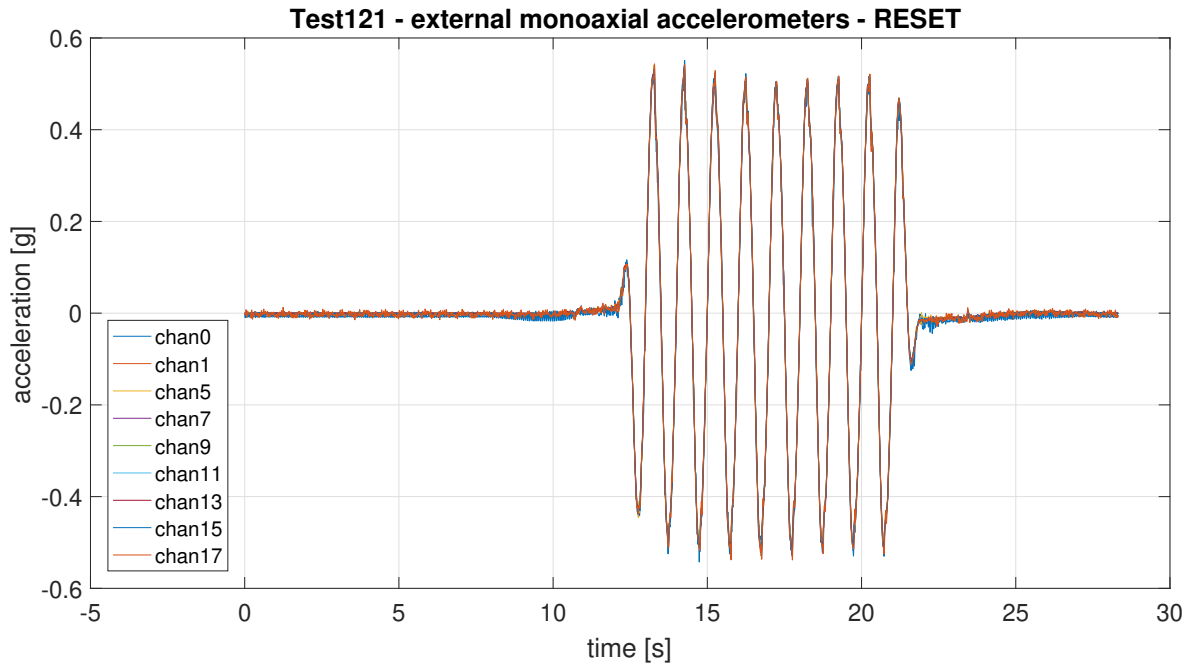


- Sinusoide 0.5 g



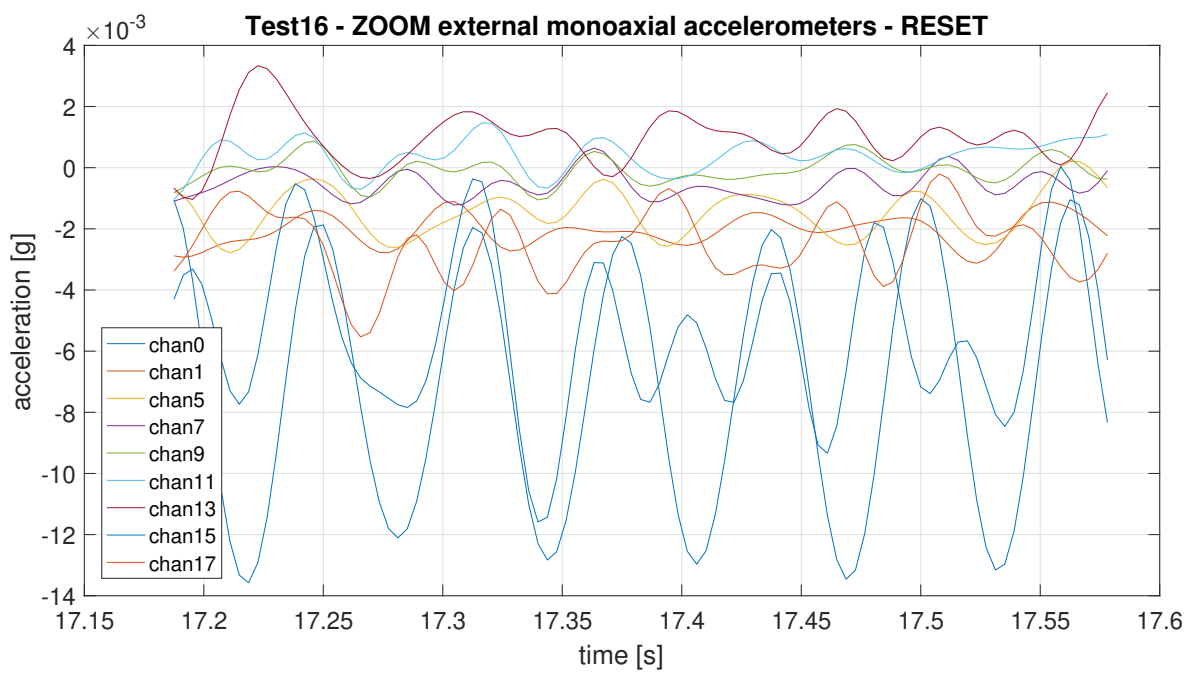
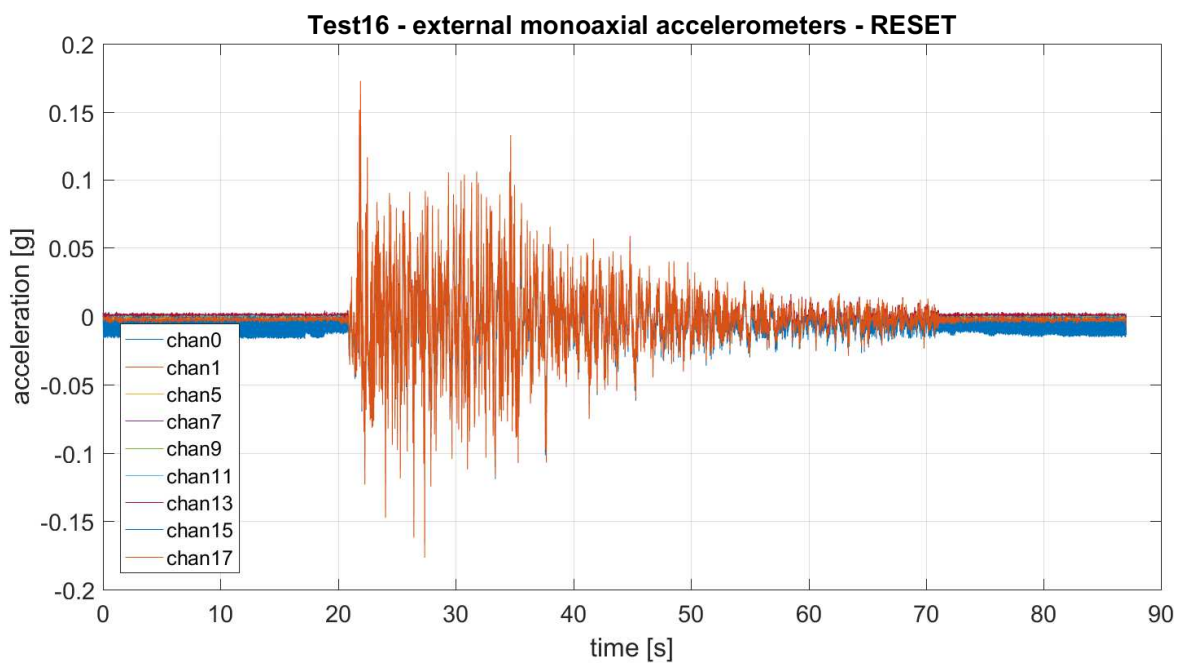


- Sinusoide 0.5 g dopo compattazione

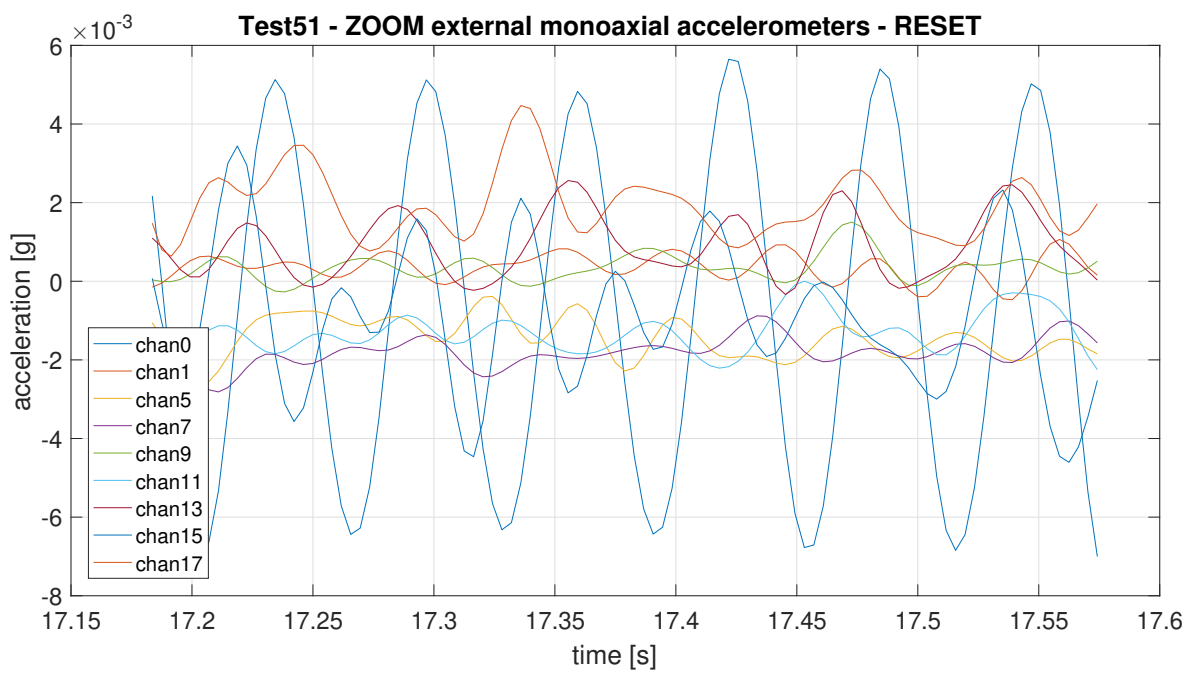
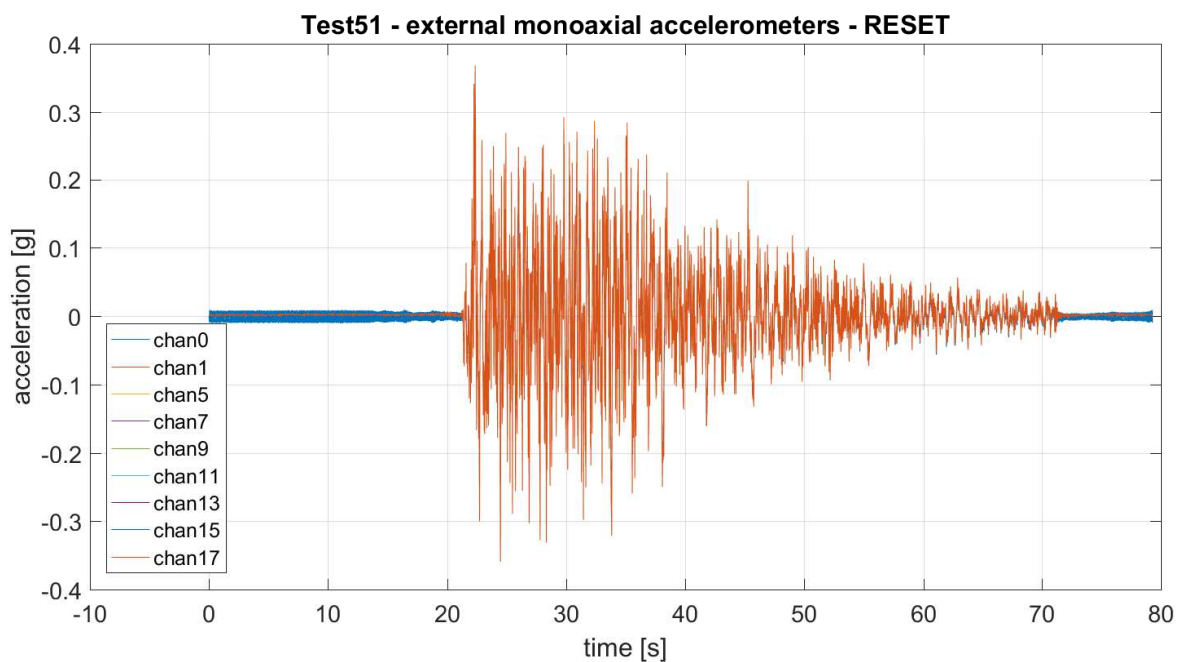




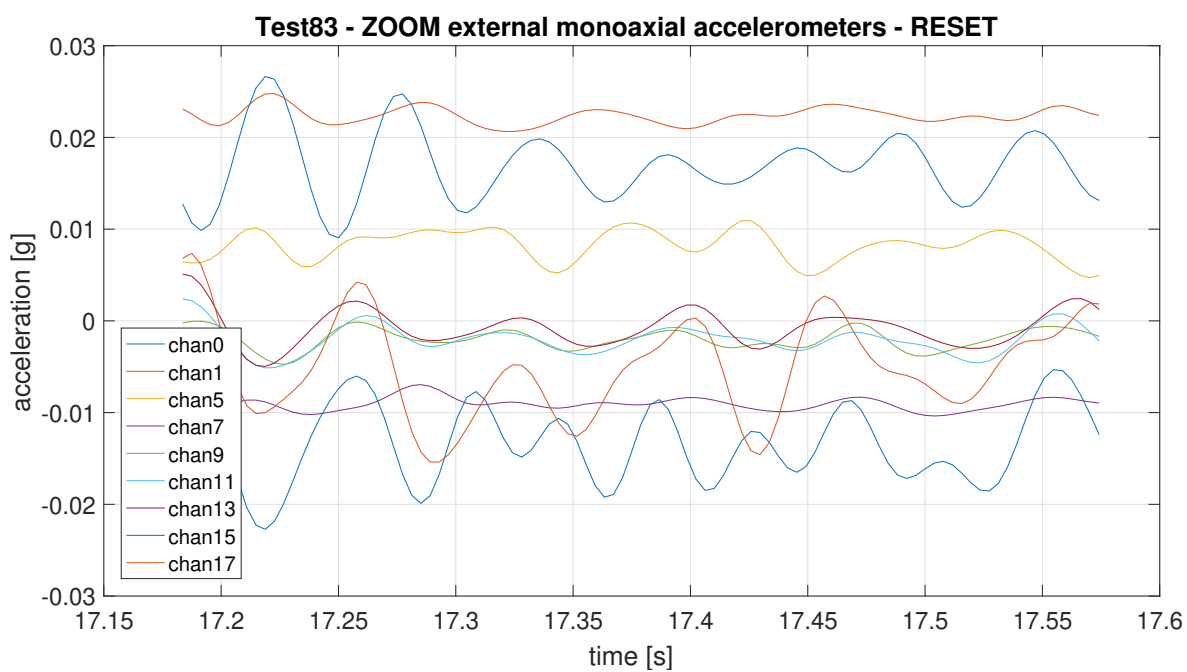
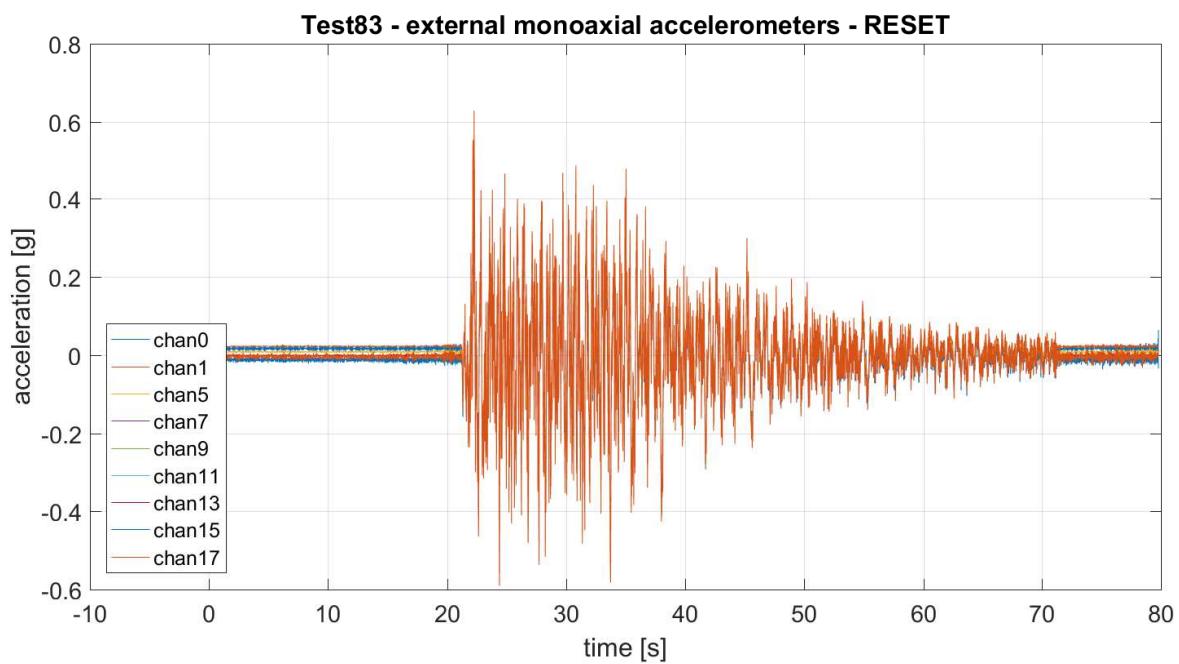
## • Terremoto A1 0.1 g



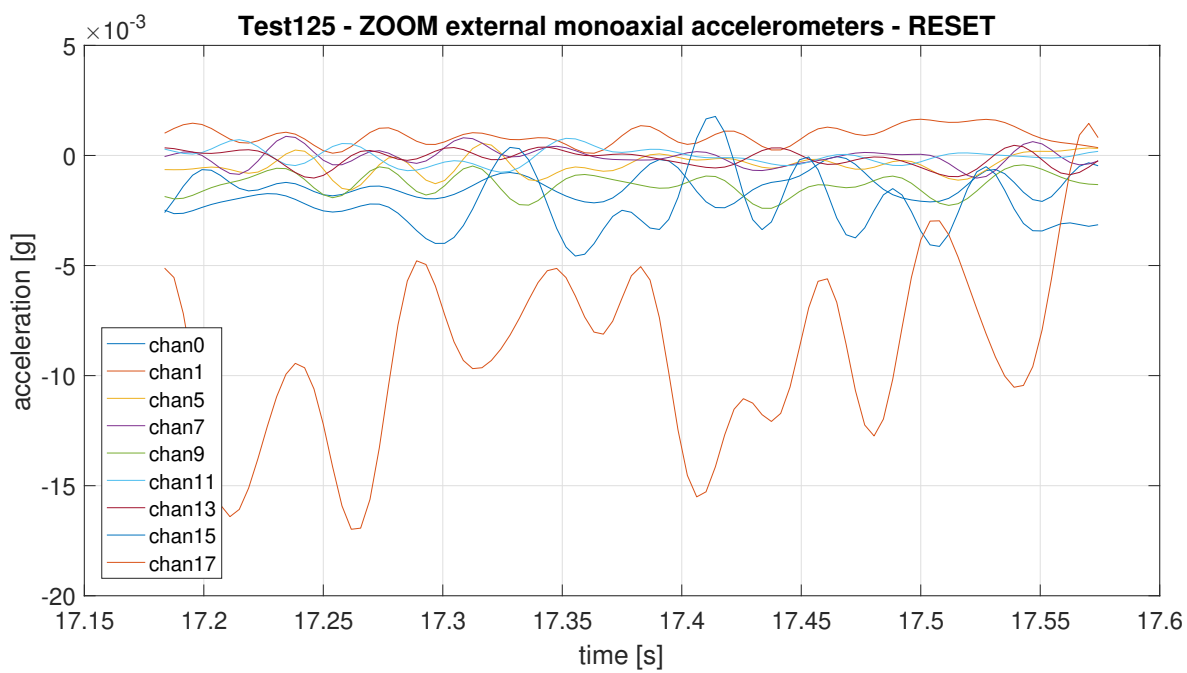
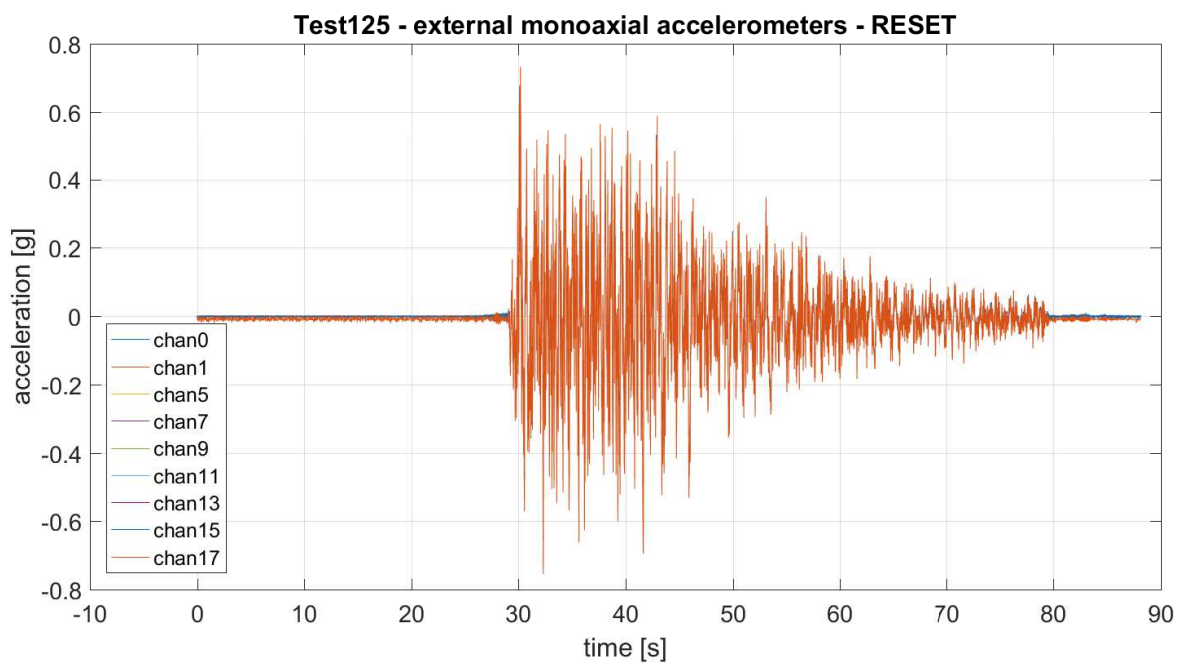
## • Terremoto A1 0.3 g



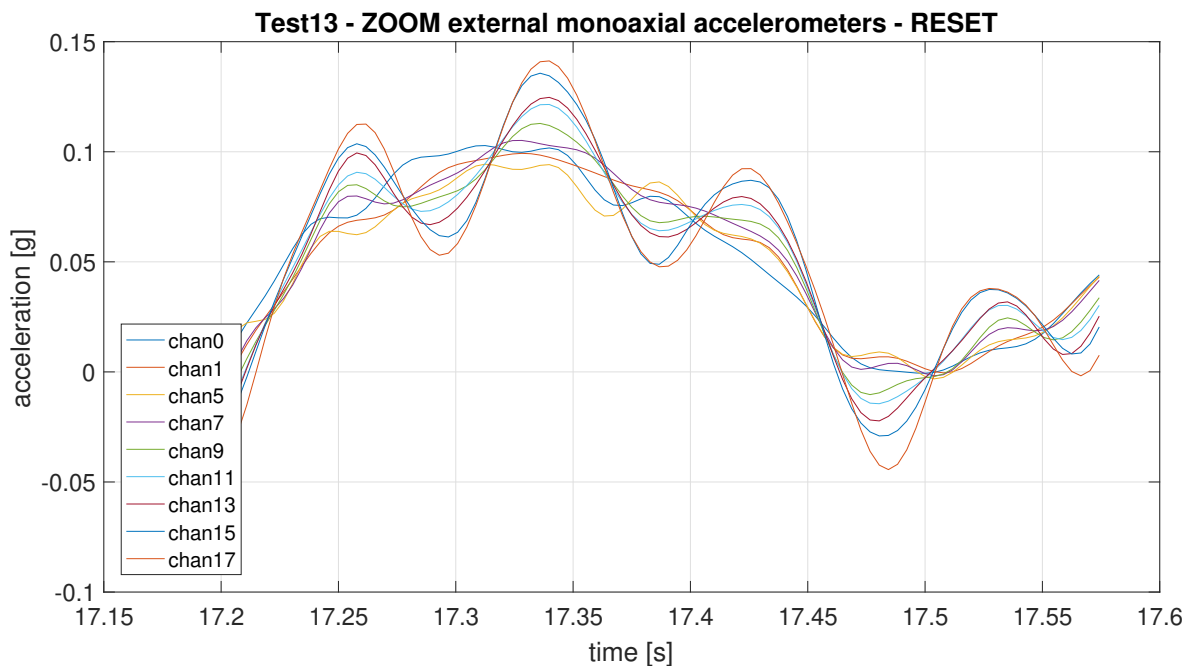
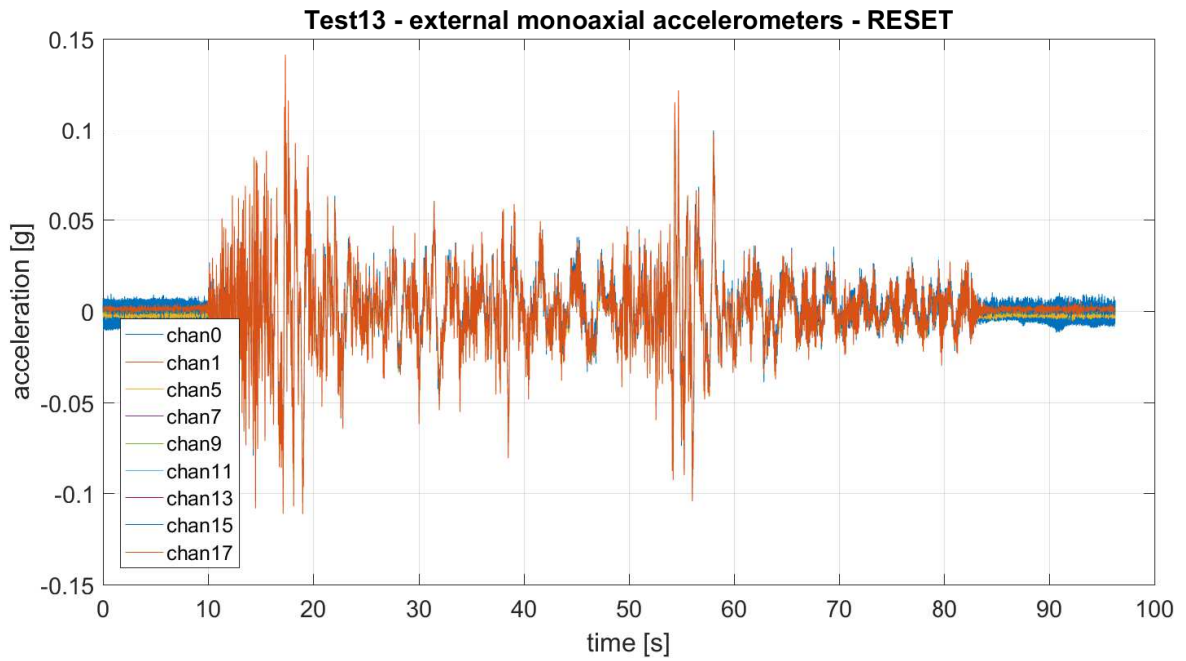
## • Terremoto A1 0.5 g



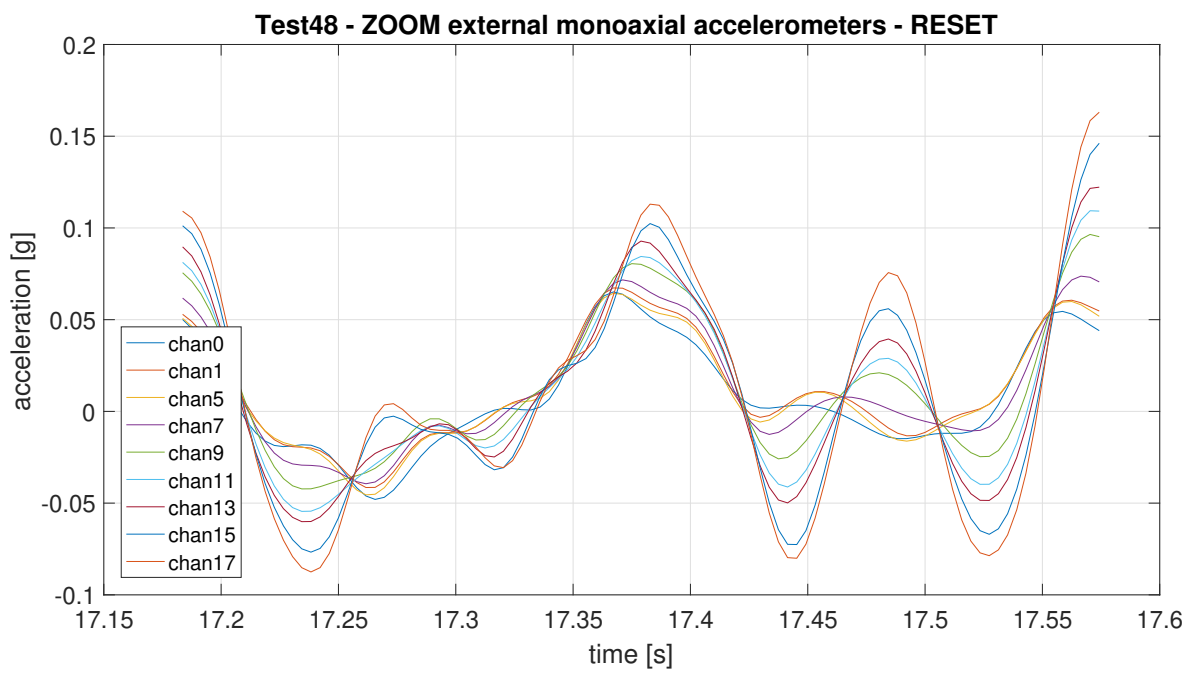
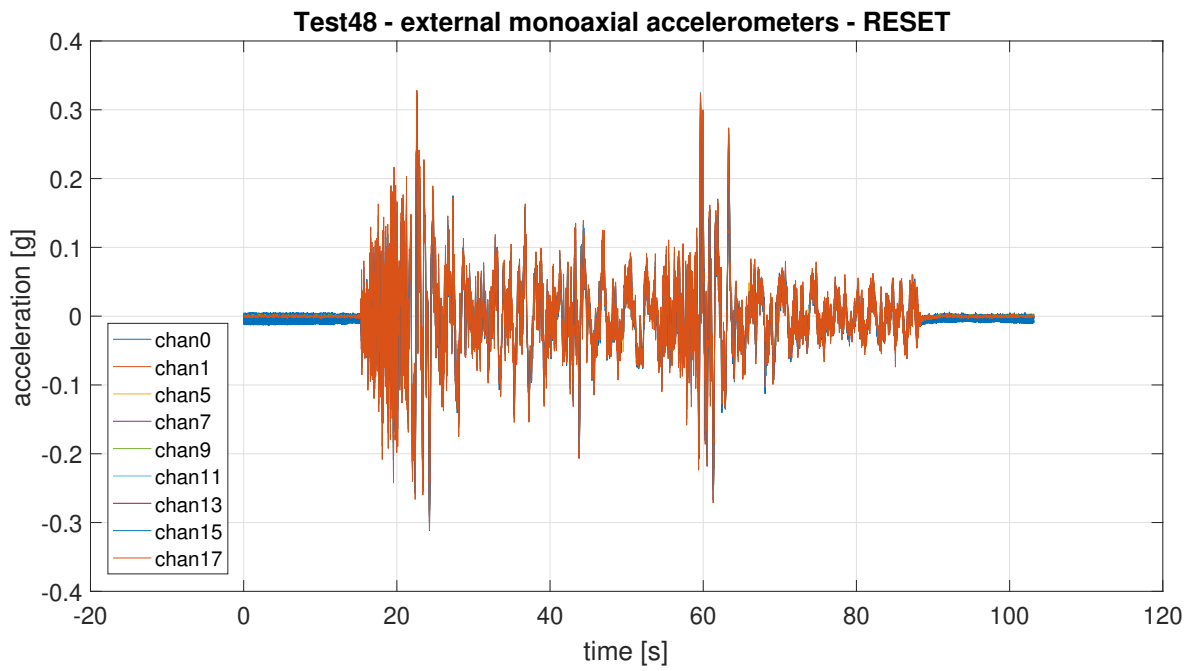
## • Terremoto A1 0.6 g



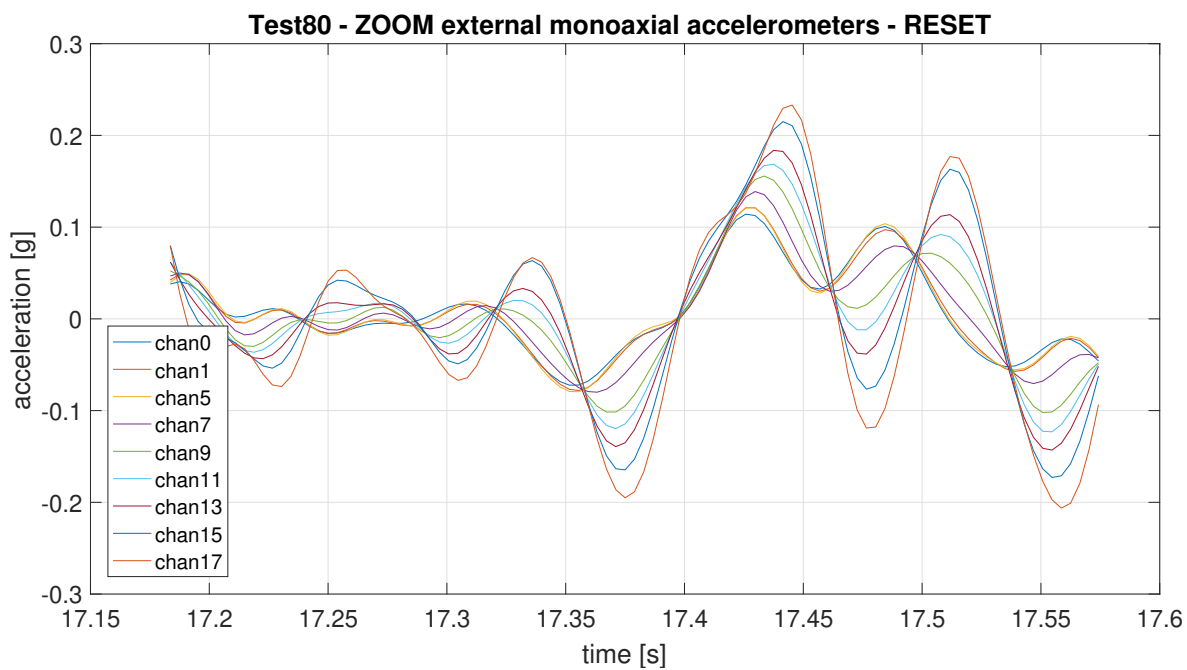
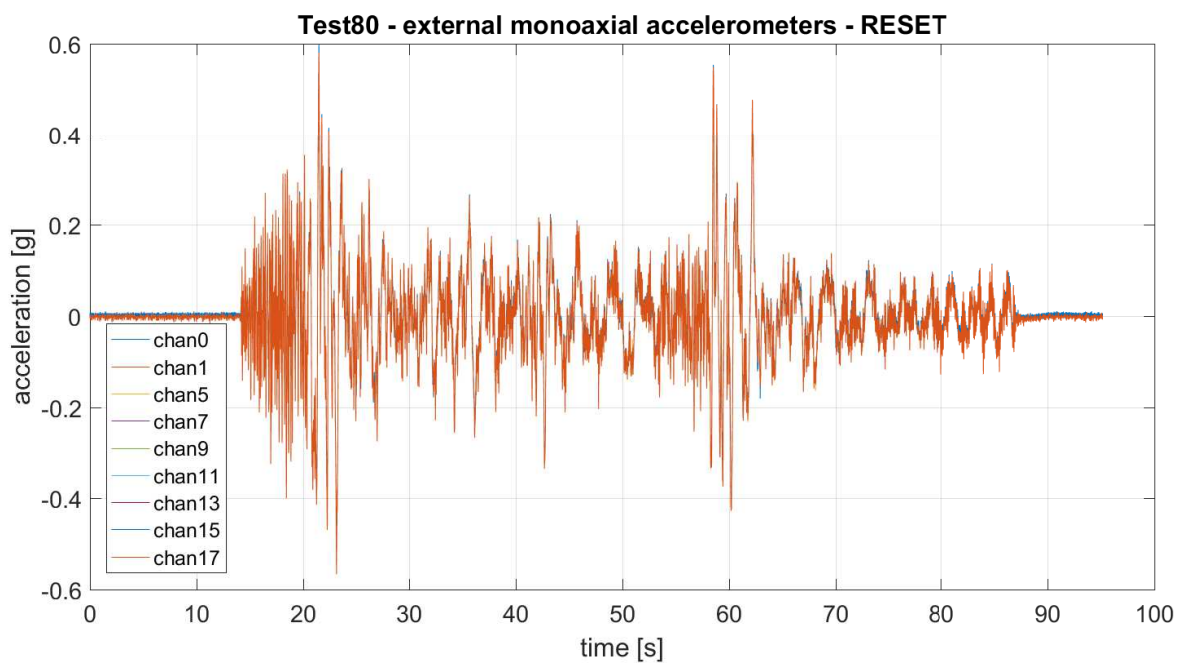
## • Terremoto RS1 0.1 g



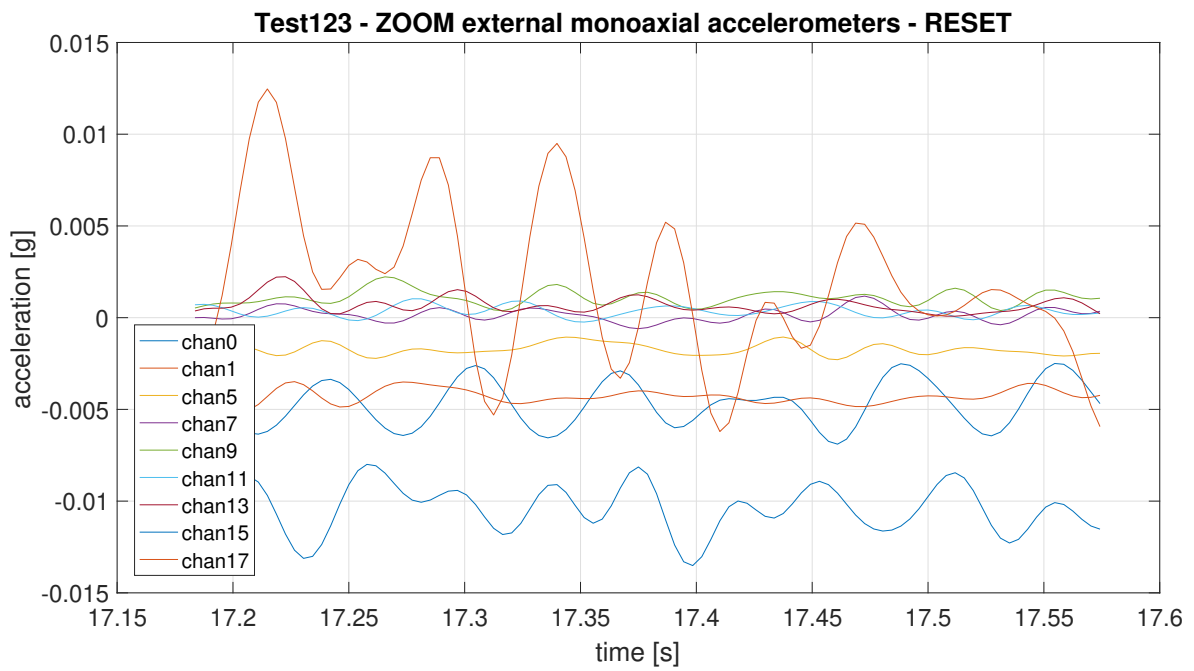
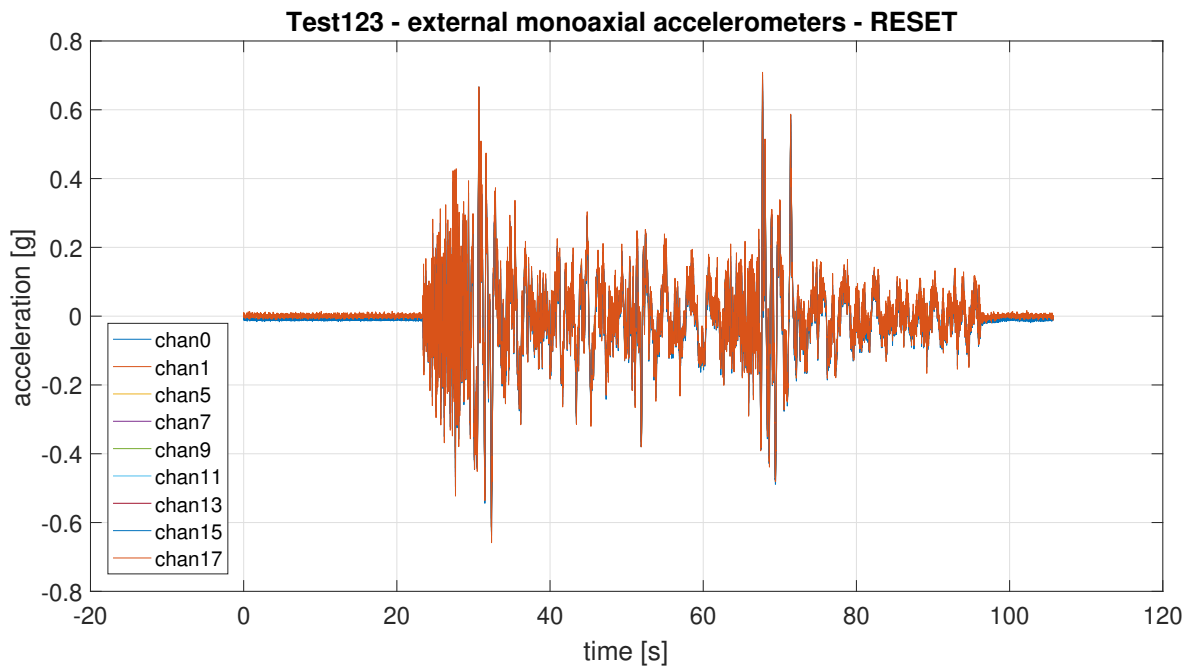
- Terremoto RS1 0.3 g



## • Terremoto RS1 0.5 g

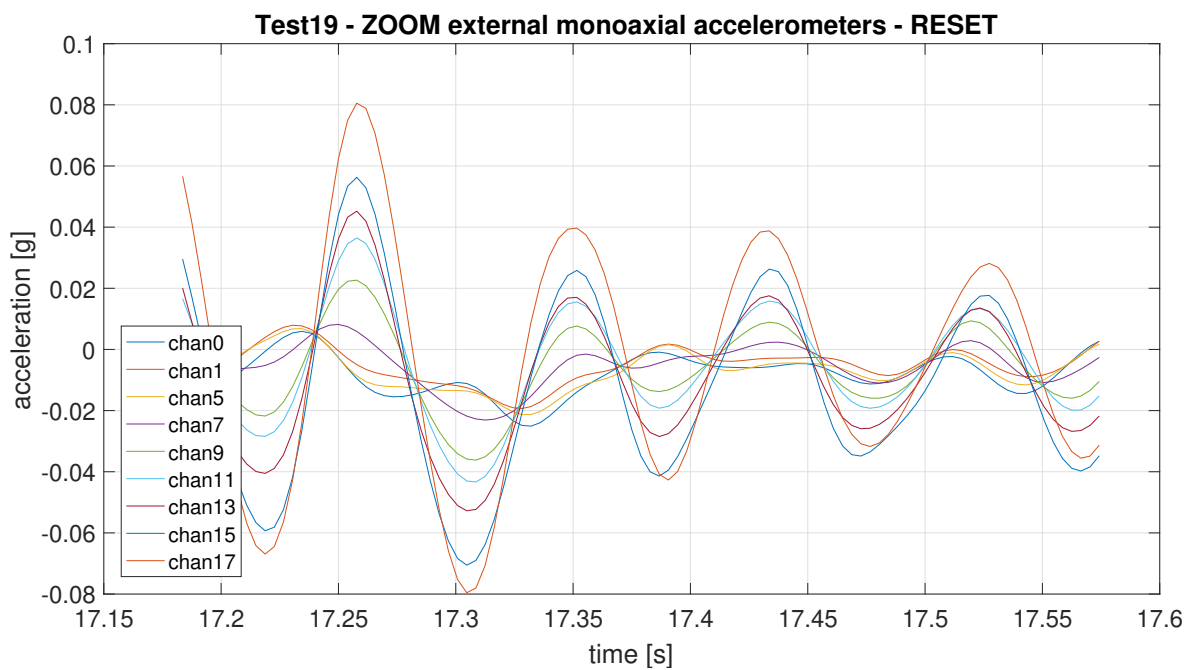
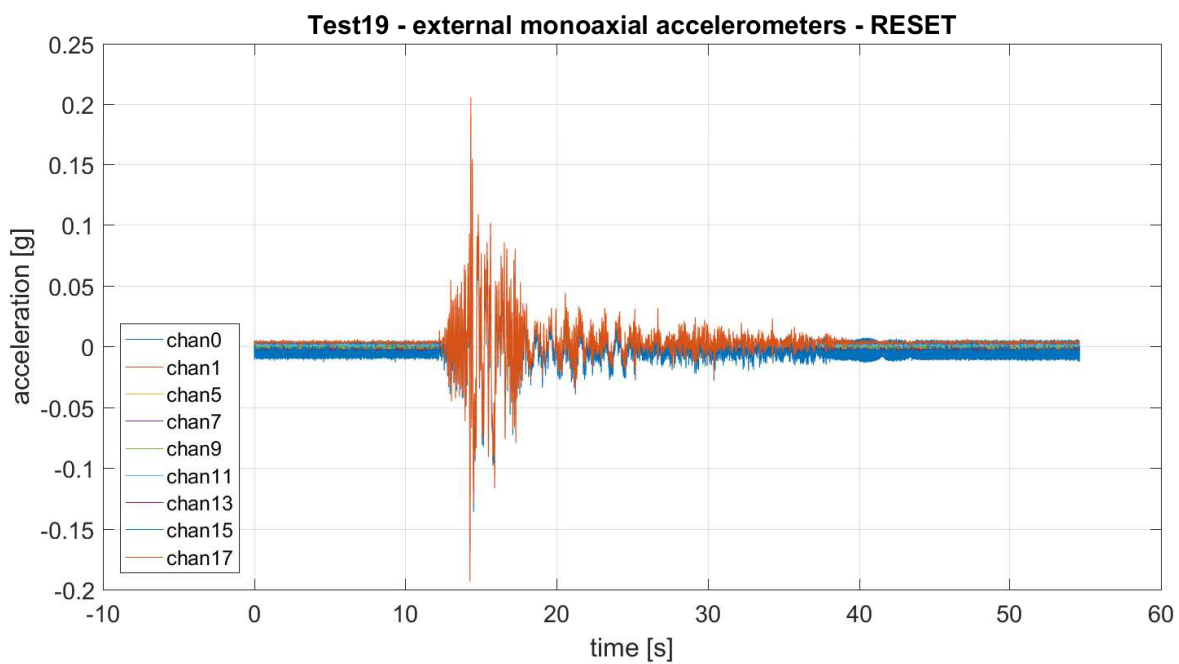


- Terremoto RS1 0.6 g

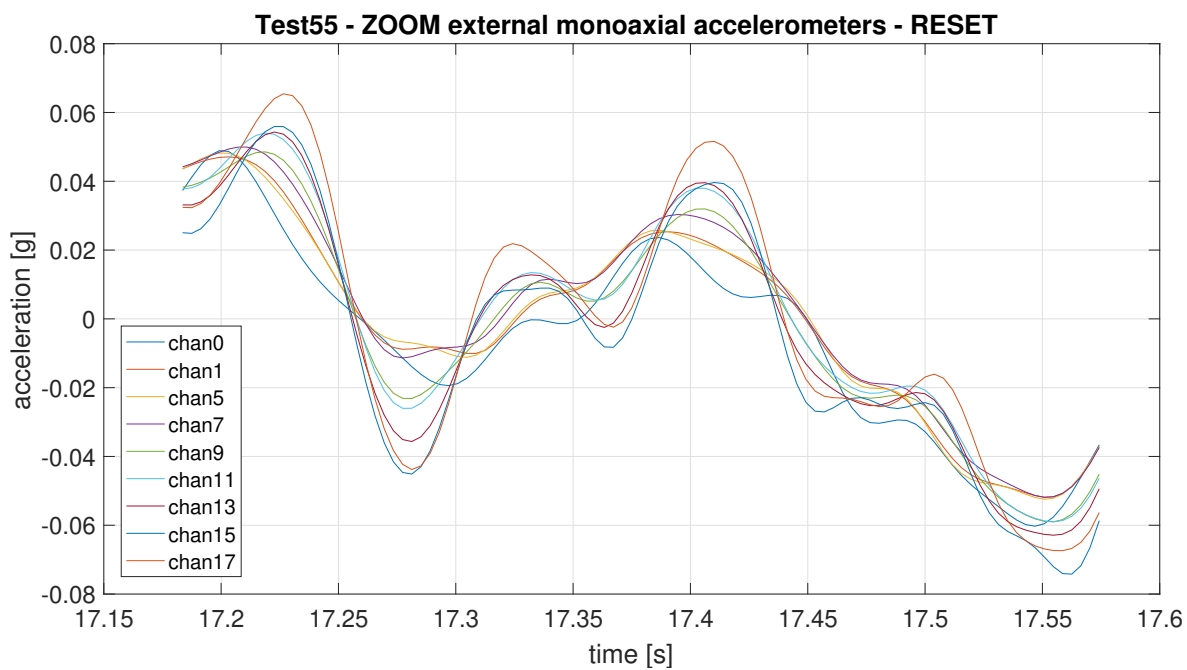
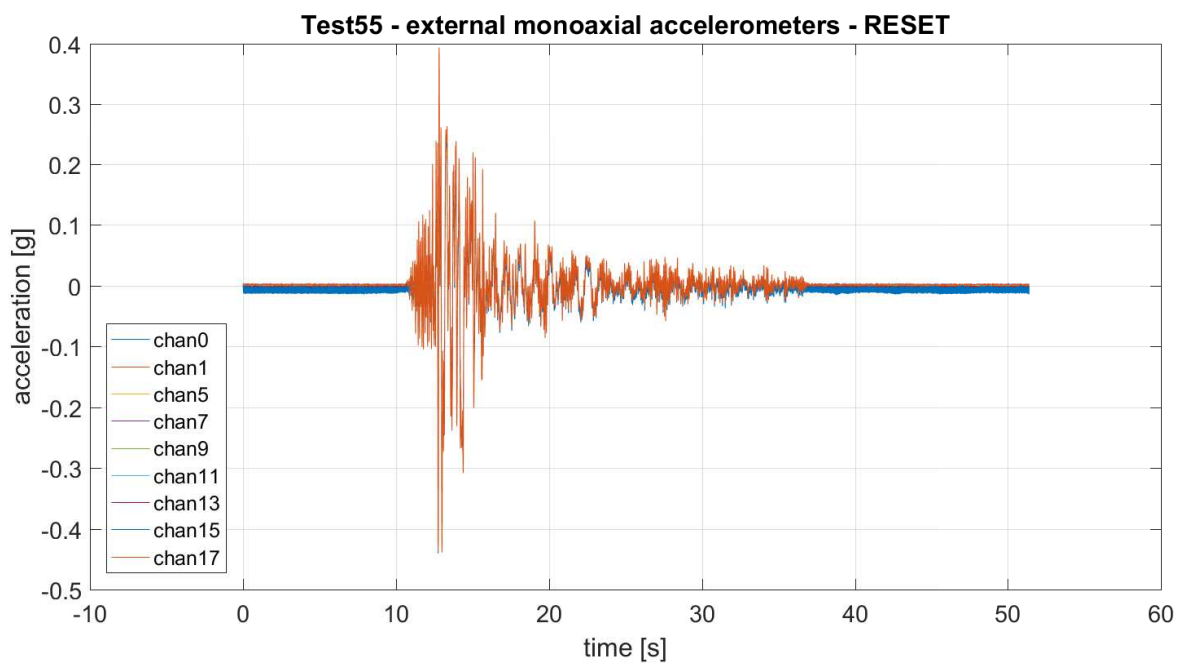




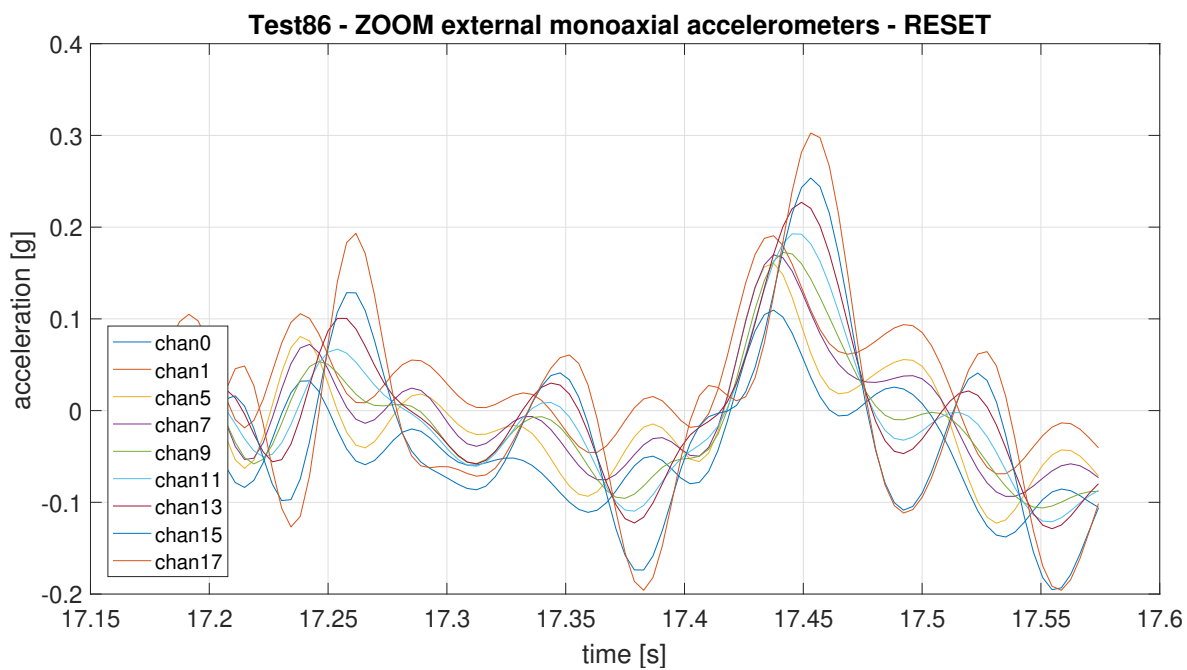
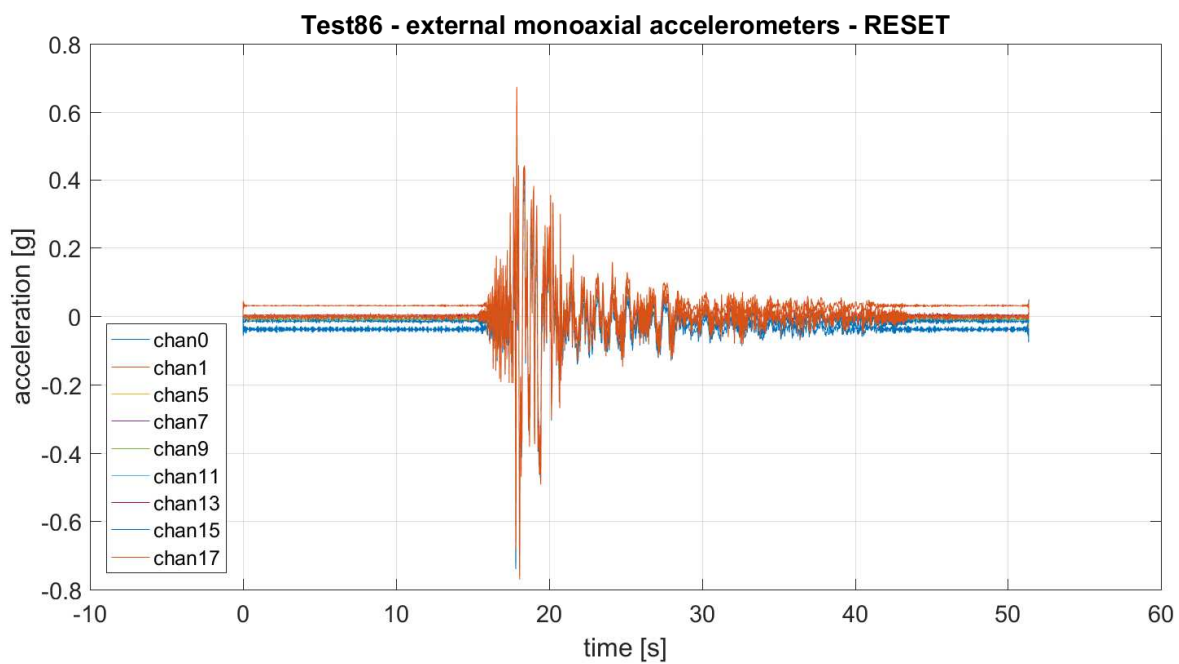
## • Terremoto RS3 0.1 g



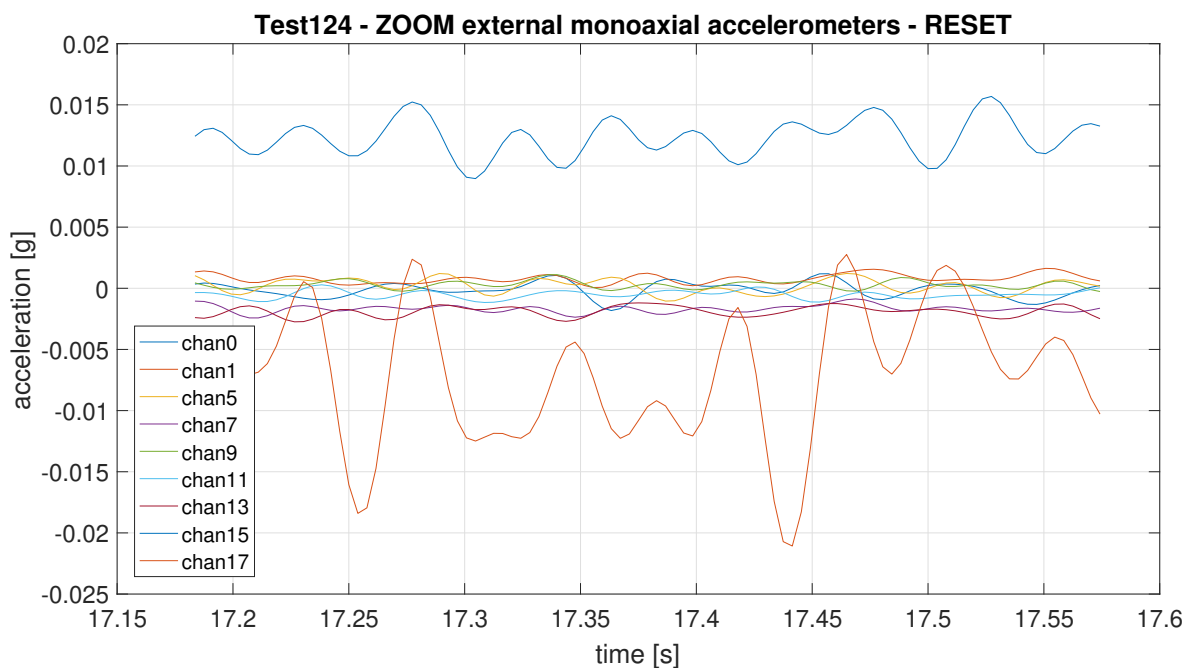
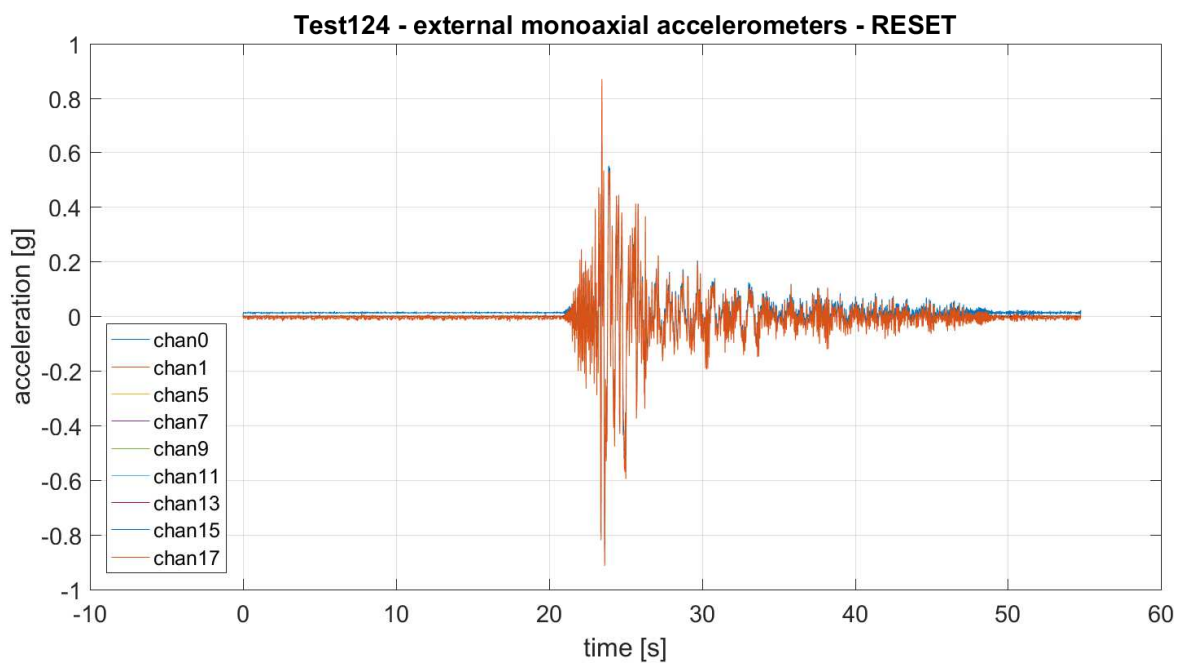
## • Terremoto RS3 0.3 g



## • Terremoto RS3 0.5 g

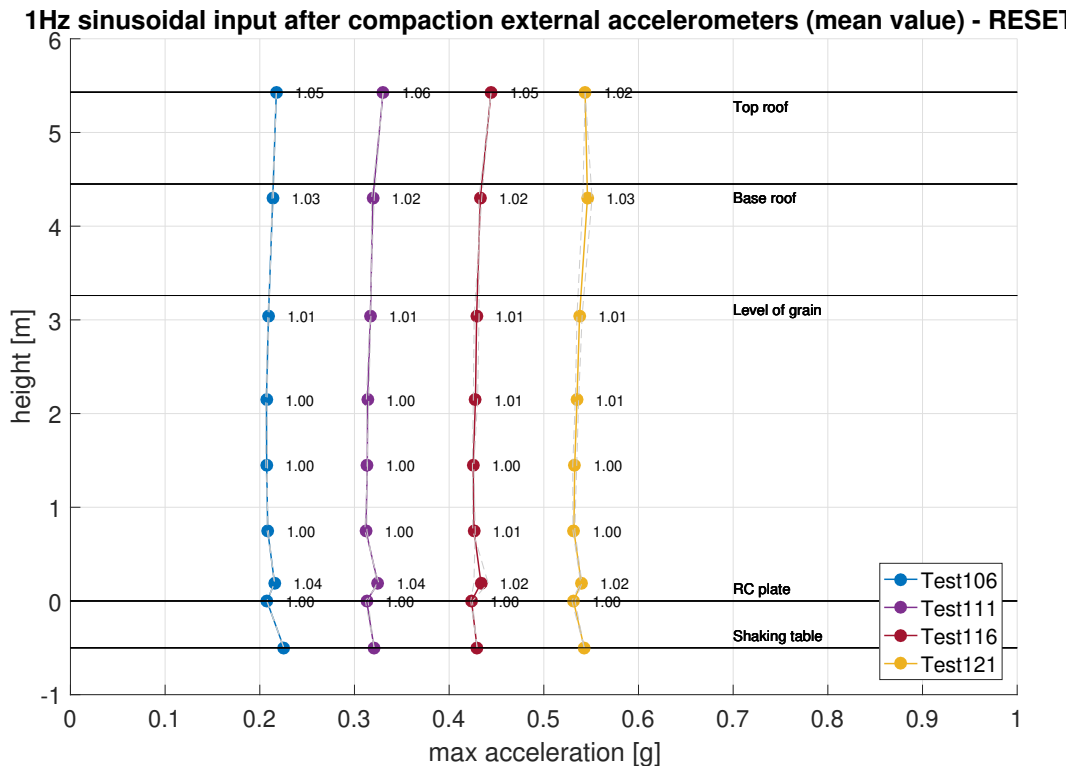


## • Terremoto RS3 0.6 g

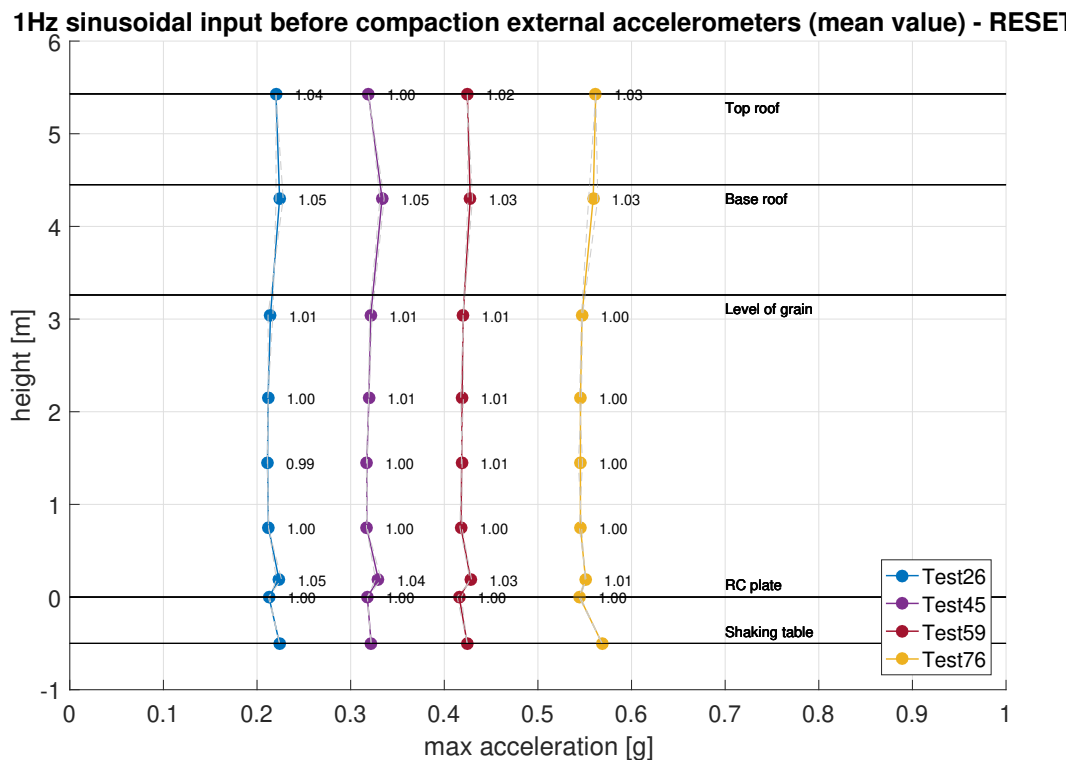


### A.4.3 Amplificazione dinamica

- Sinusoide

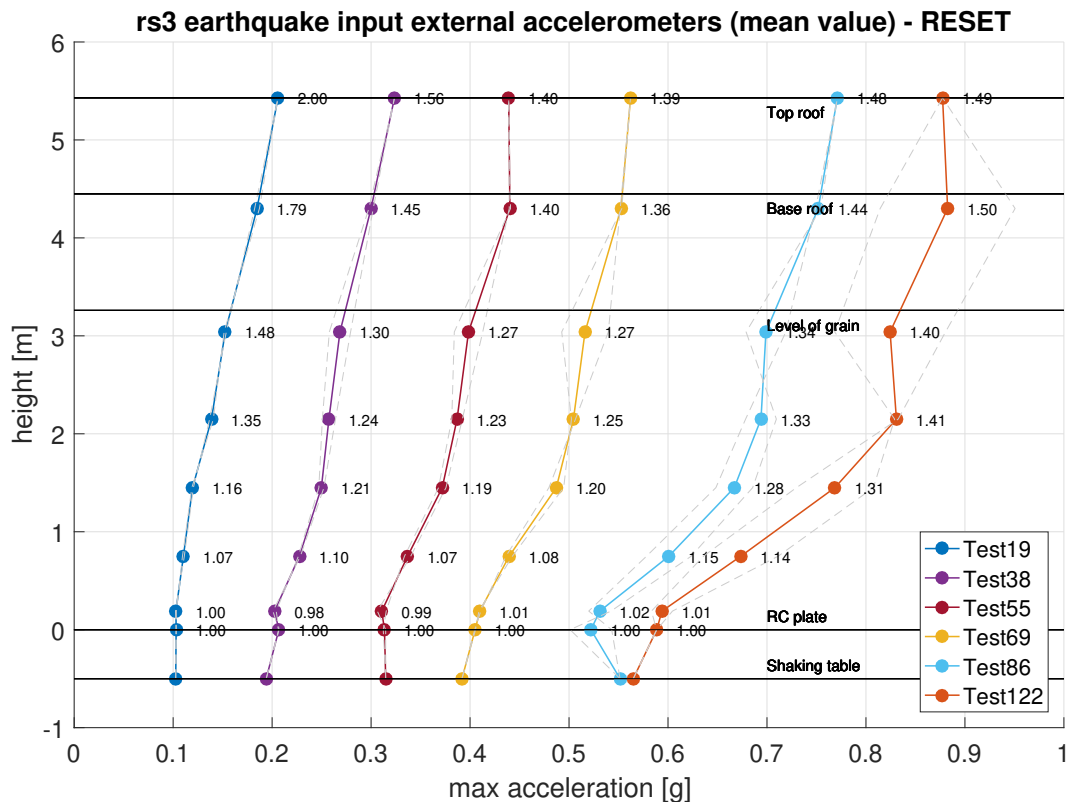


- Sinusoide dopo compattazione





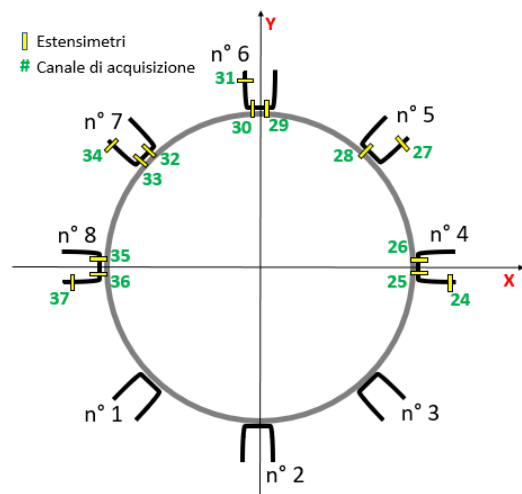
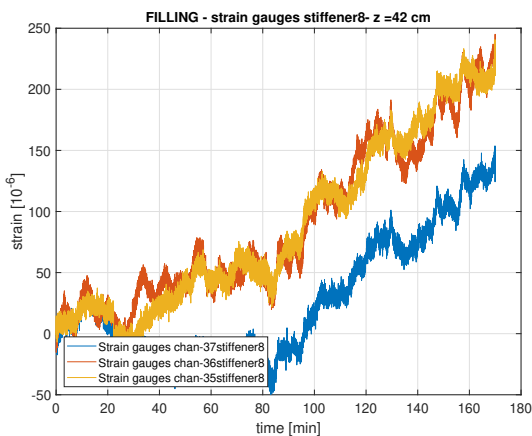
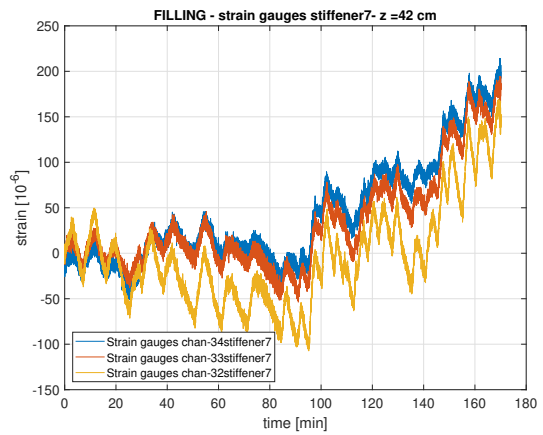
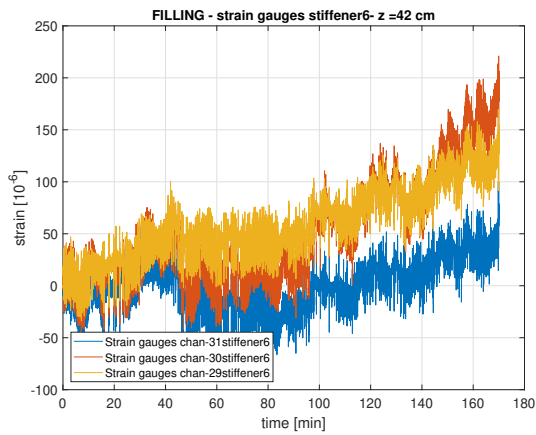
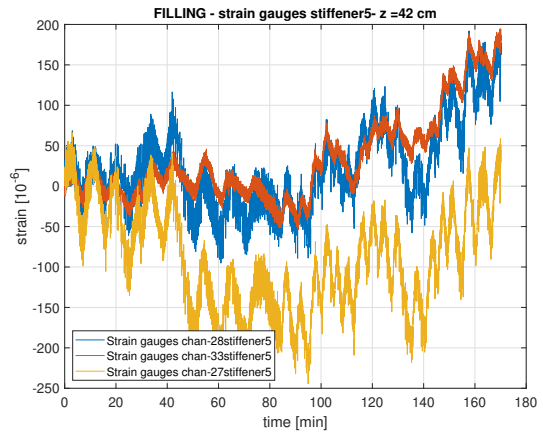
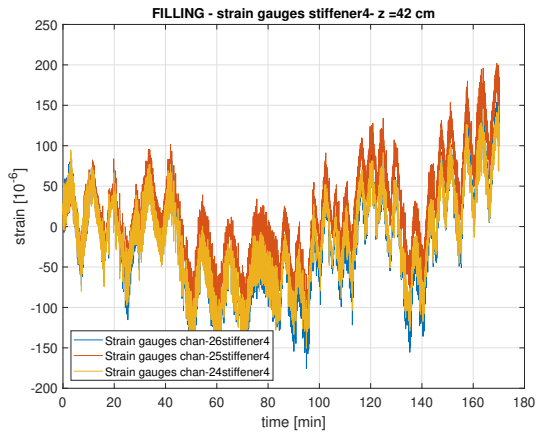
• Terremoto RS<sub>3</sub>



### A.4.4 Estensimetri

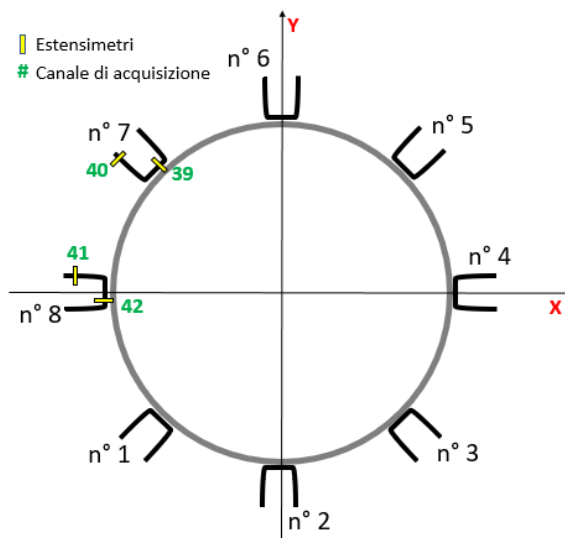
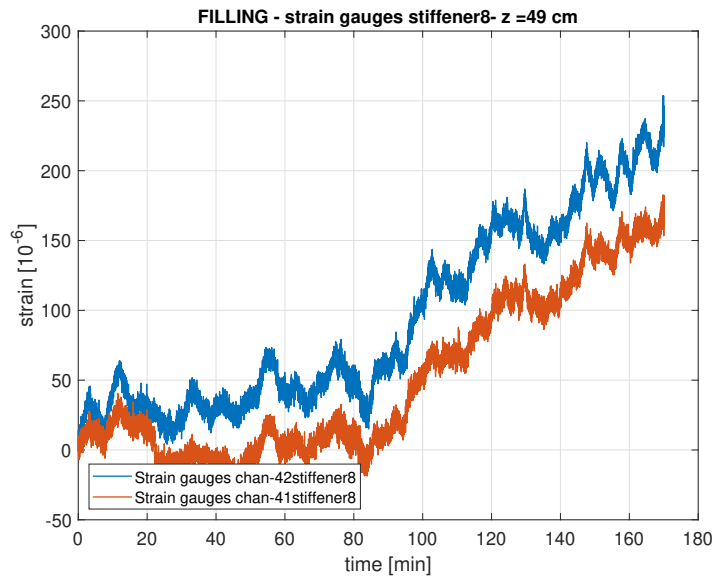
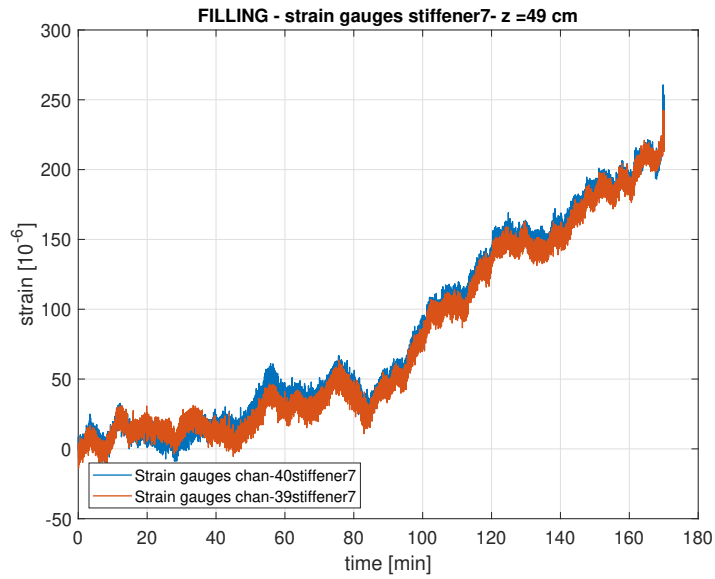
#### Riempimento

Quota z = 42 cm

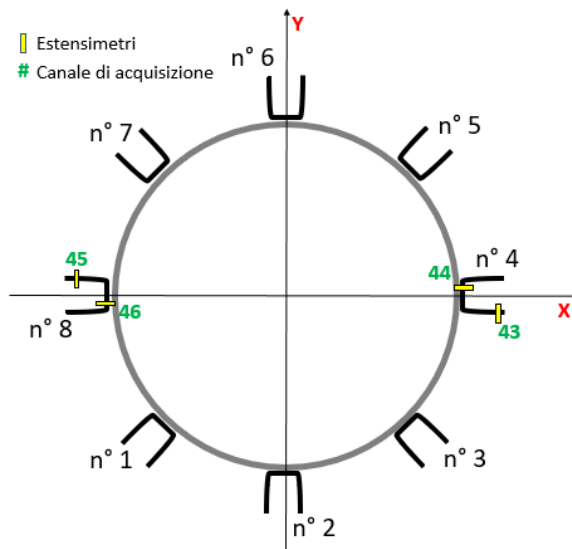
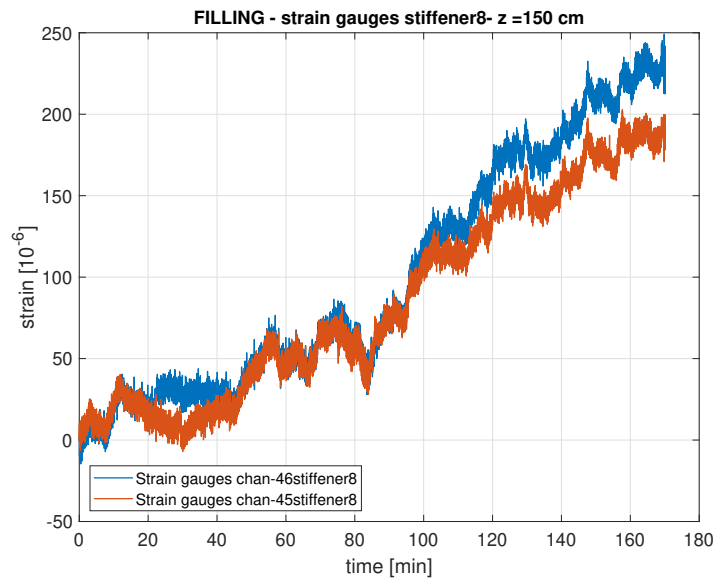
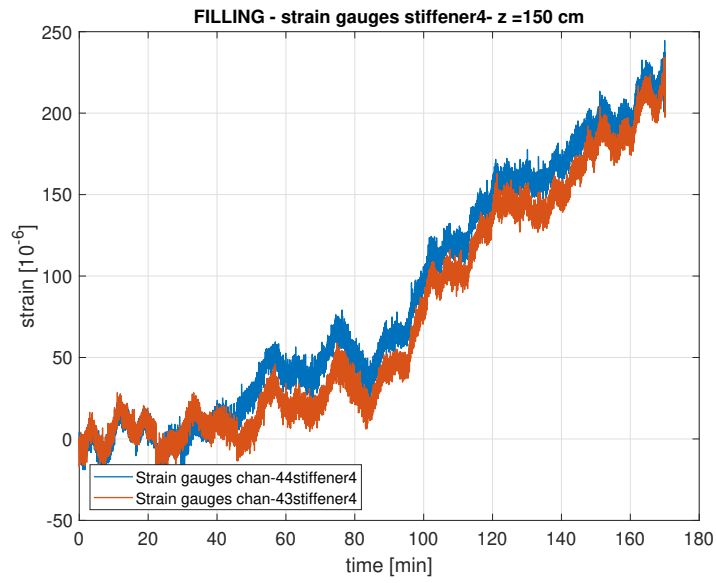




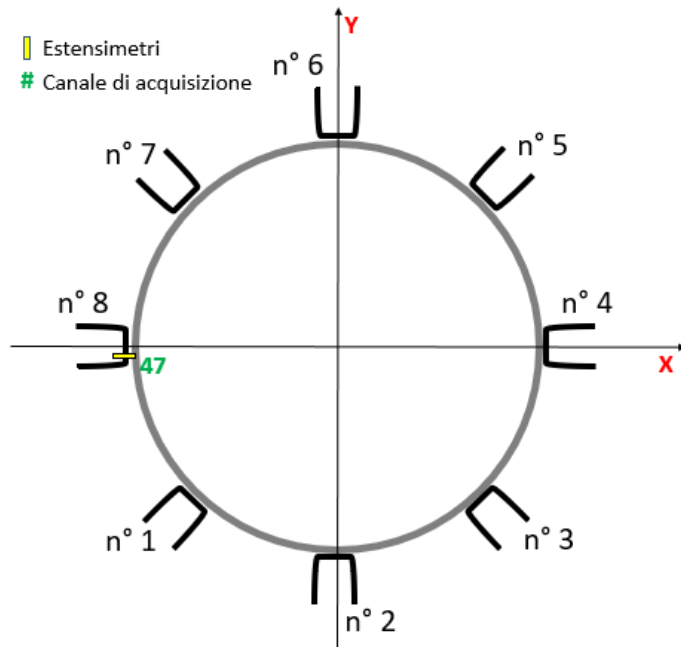
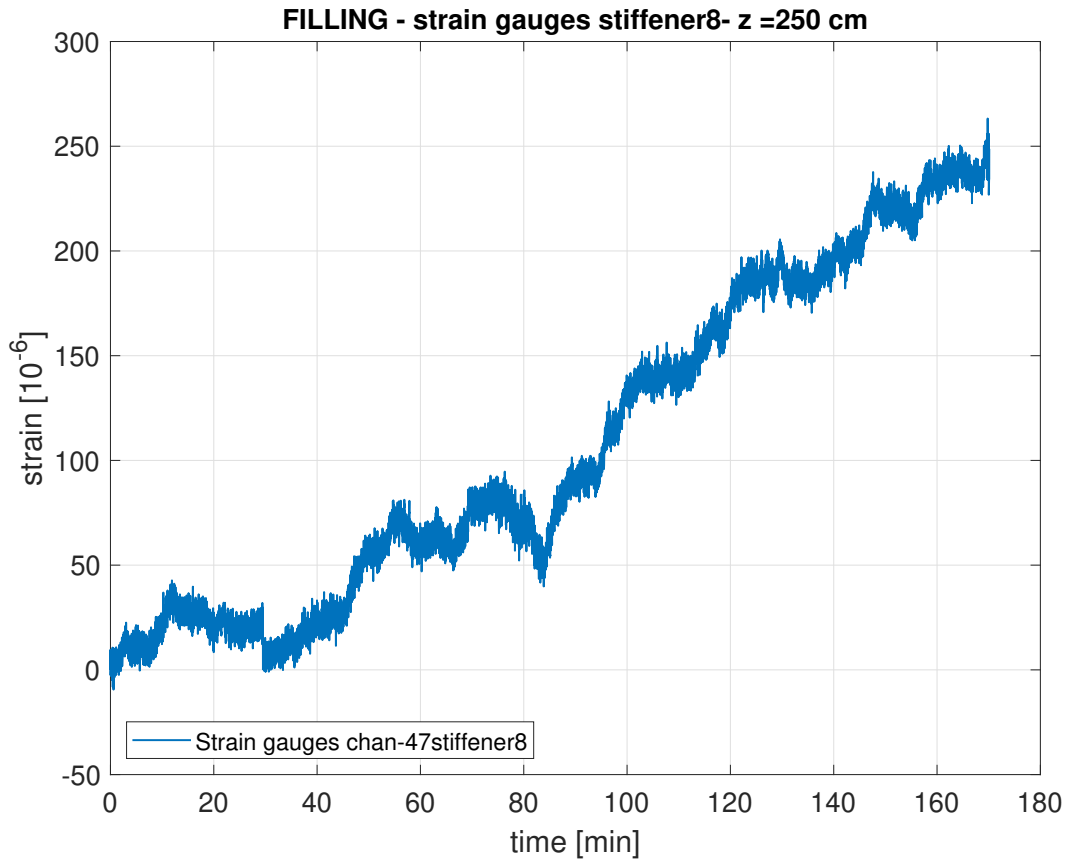
Quota z = 49 cm



Quota z = 150 cm

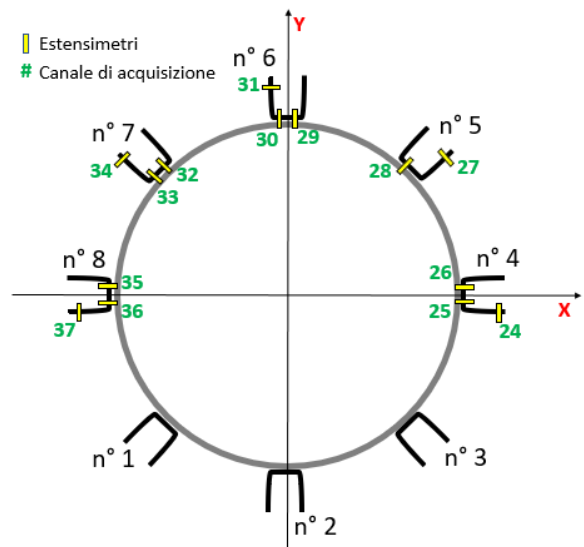
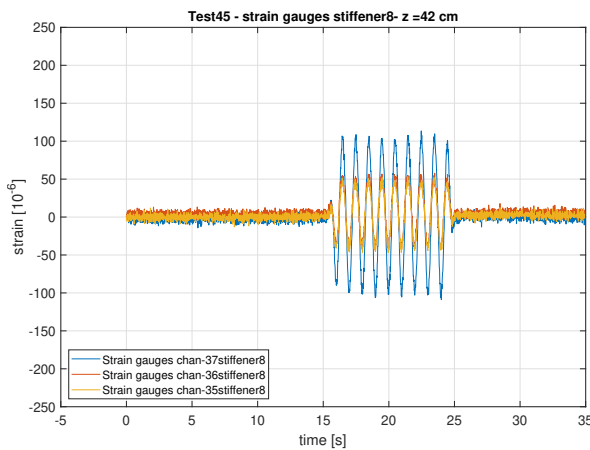
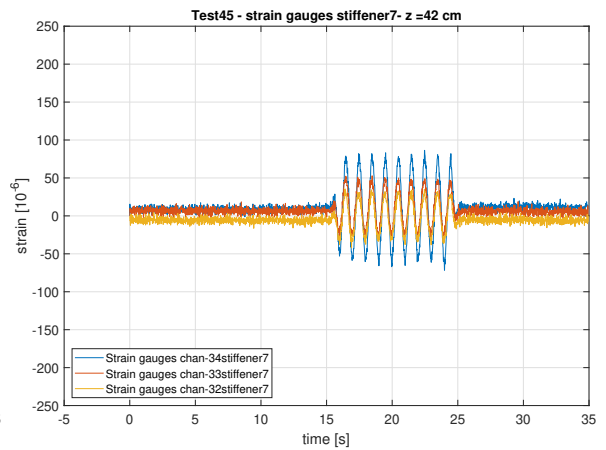
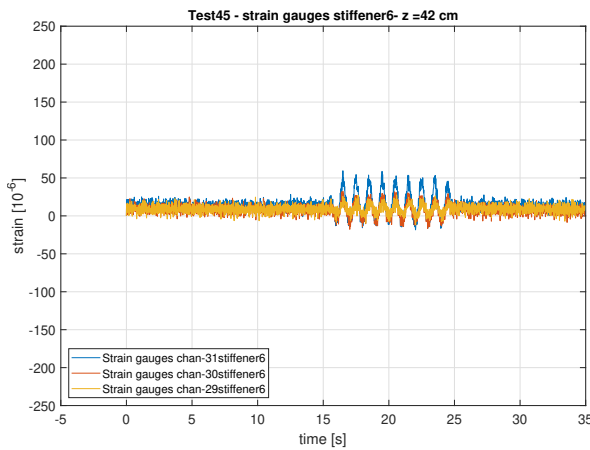
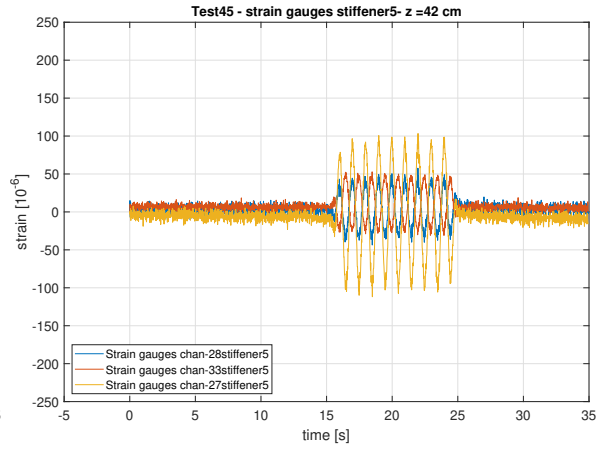
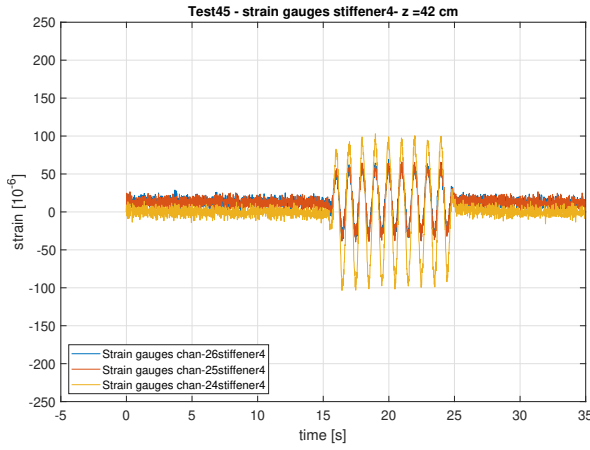


Quota z = 250 cm

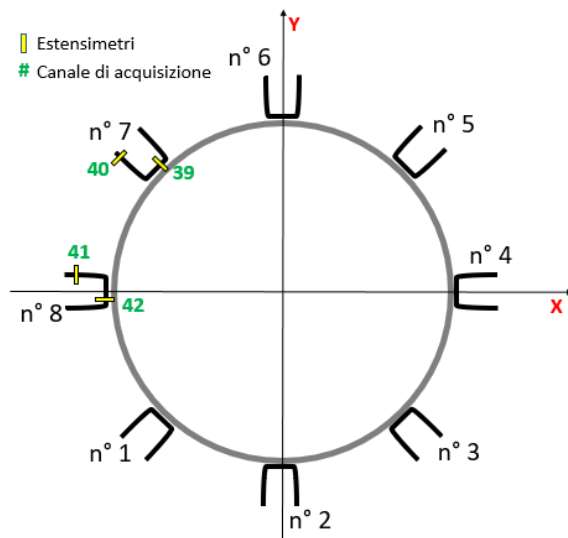
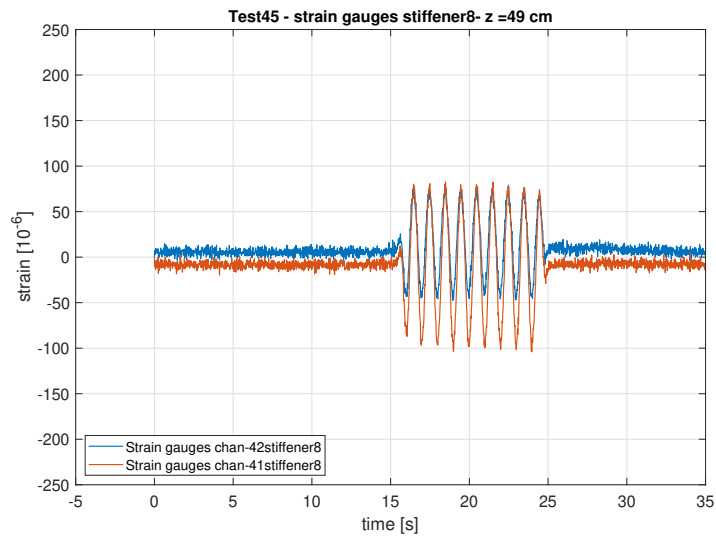
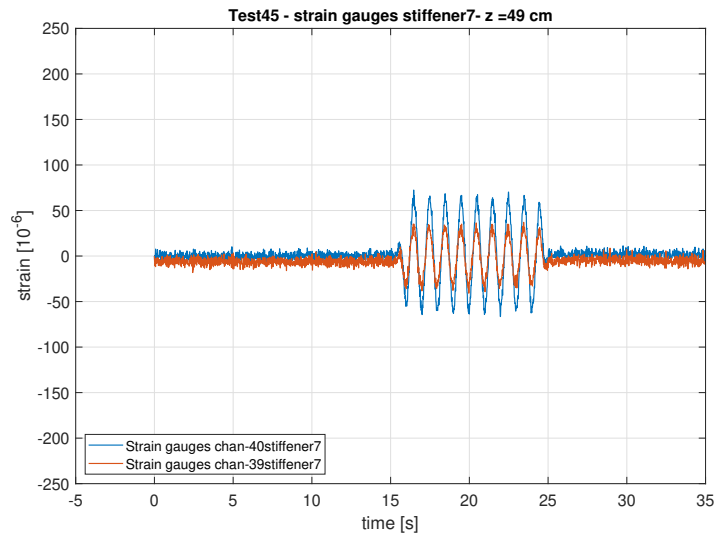


**Tests**

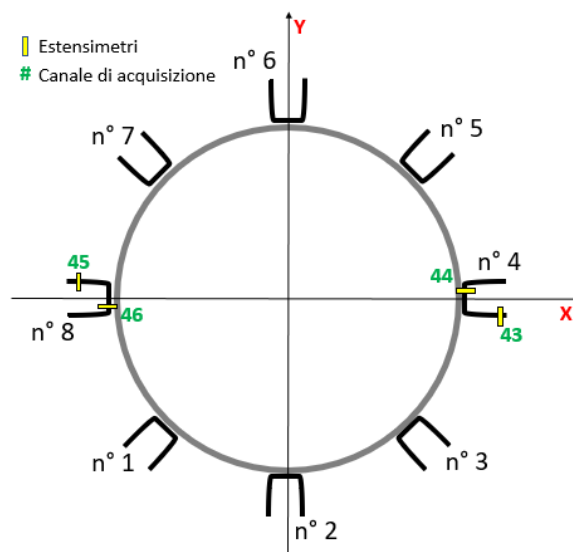
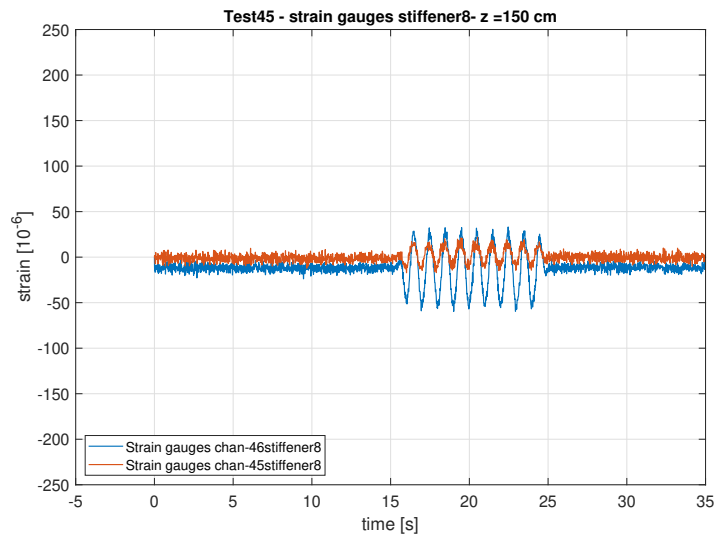
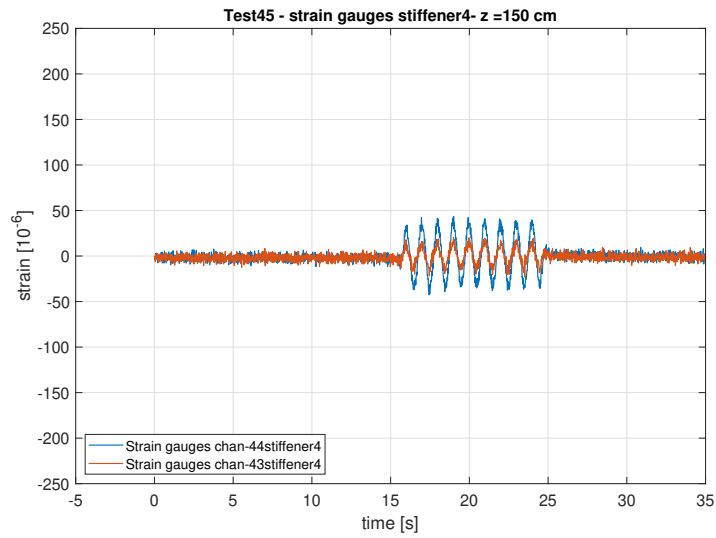
- Sinusoide 0.3 g  
Quota z = 42 cm



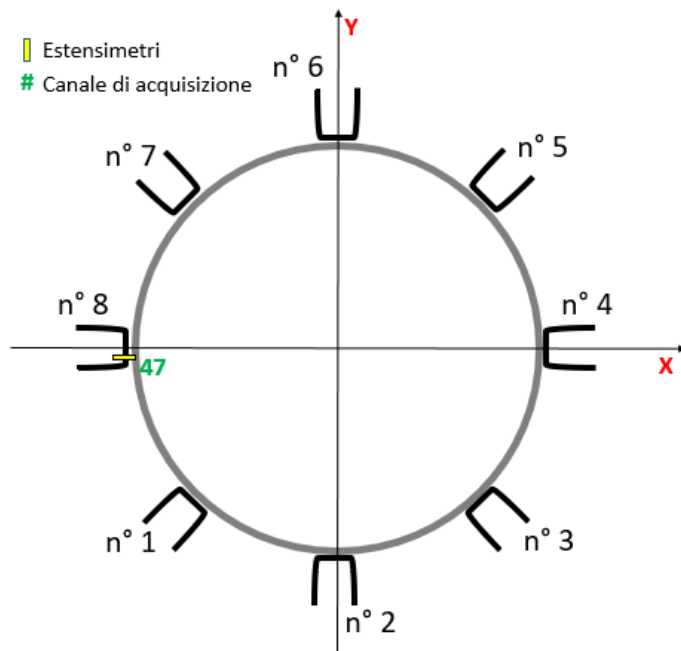
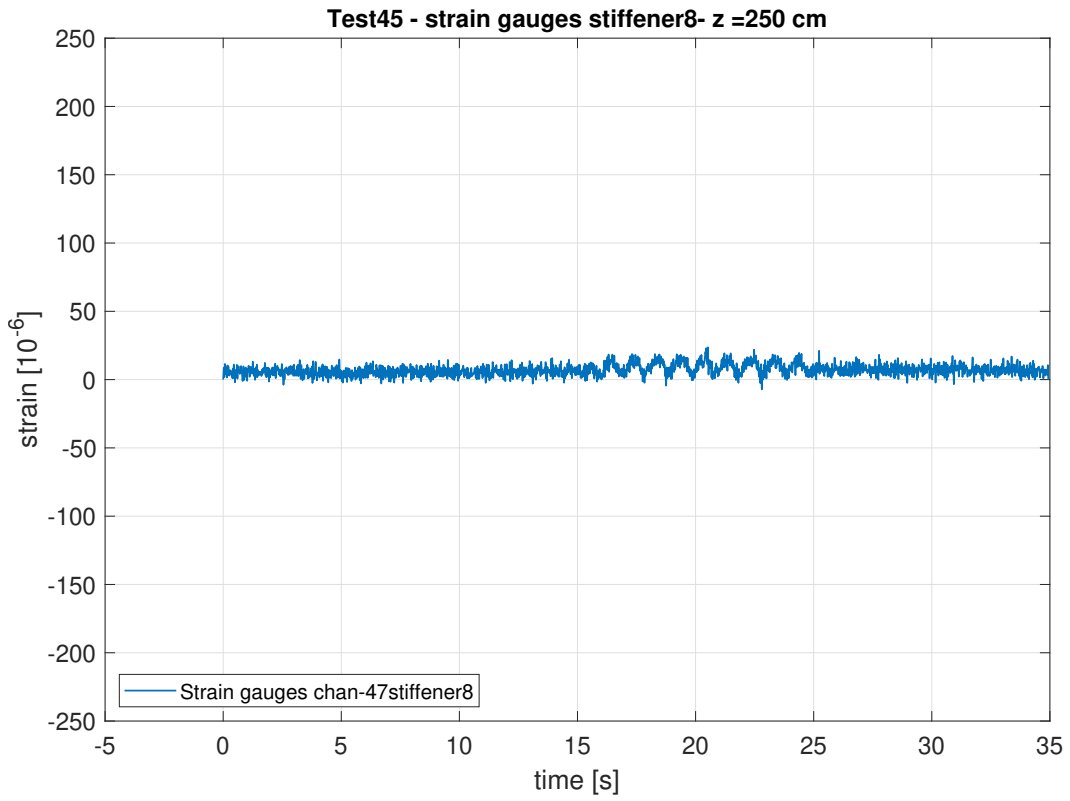
Quota z = 49 cm



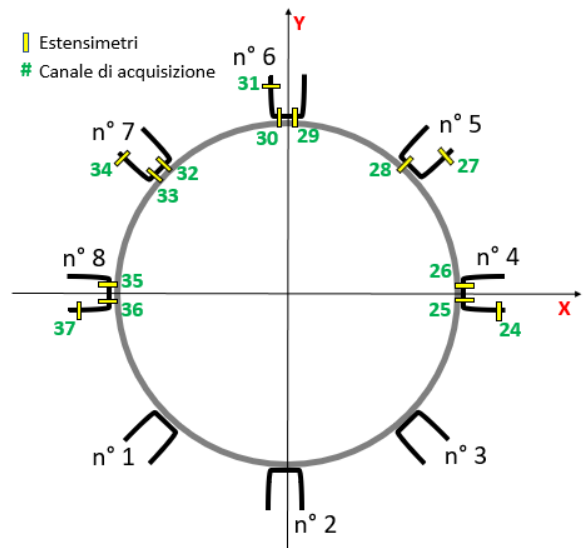
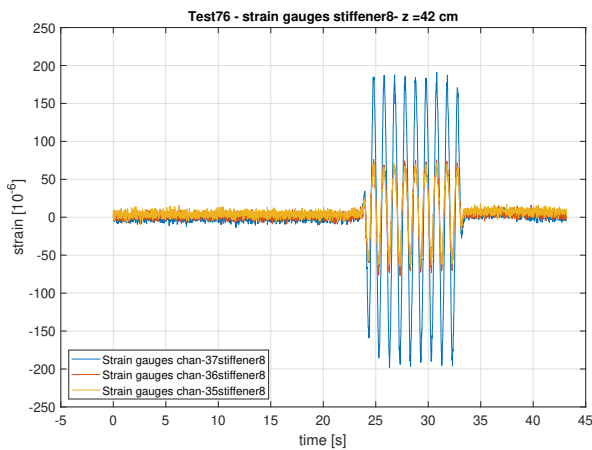
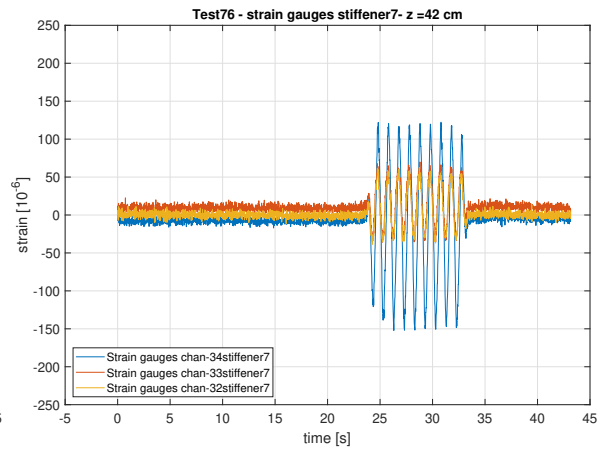
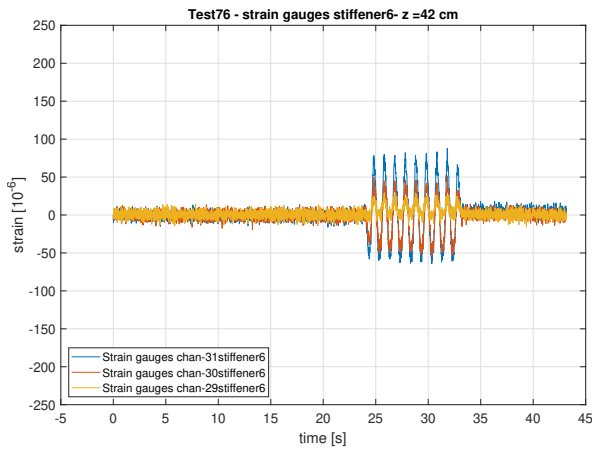
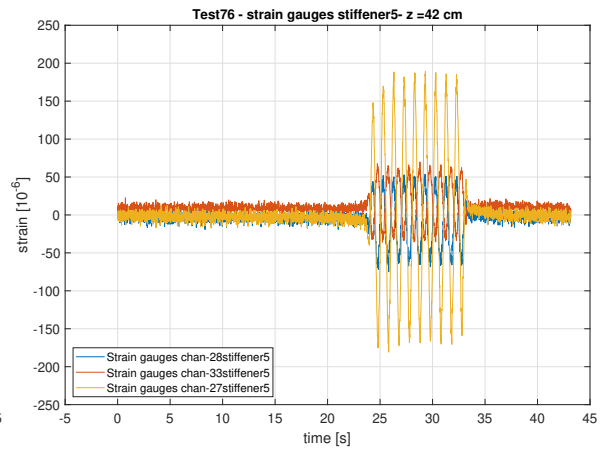
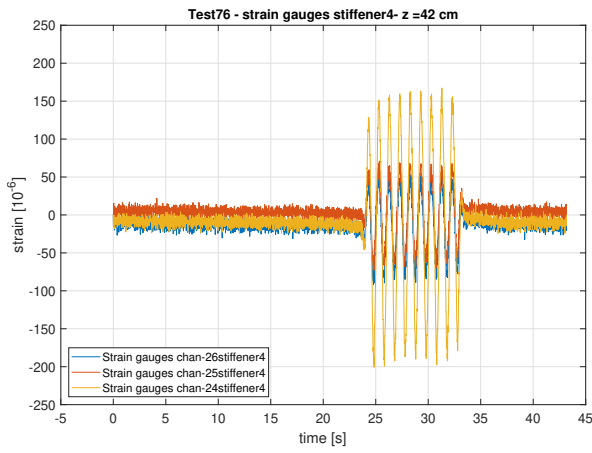
Quota z = 150 cm



Quota z = 250 cm

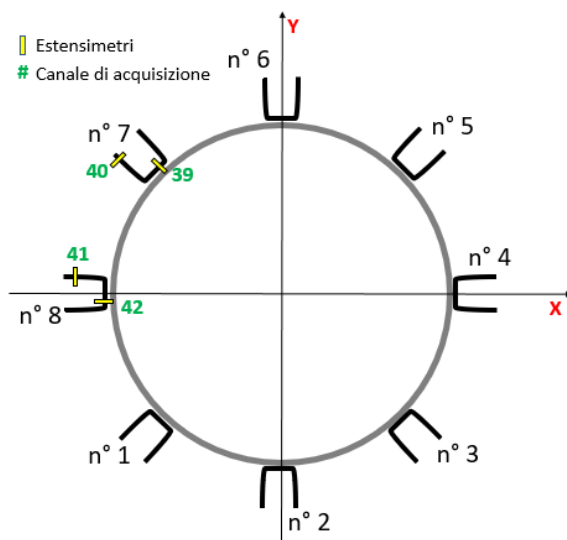
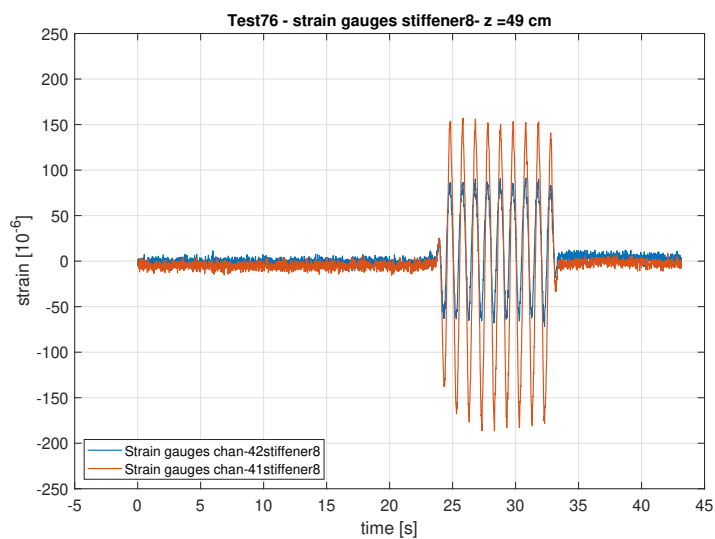
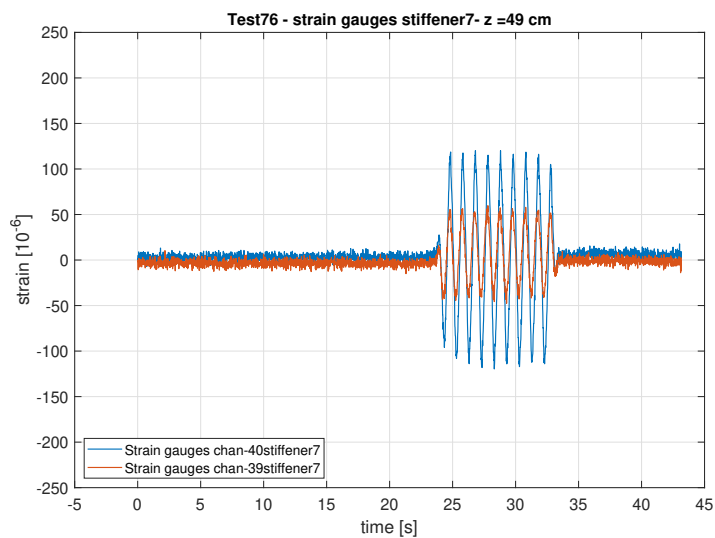


- Sinusoide 0.5 g  
Quota z = 42 cm

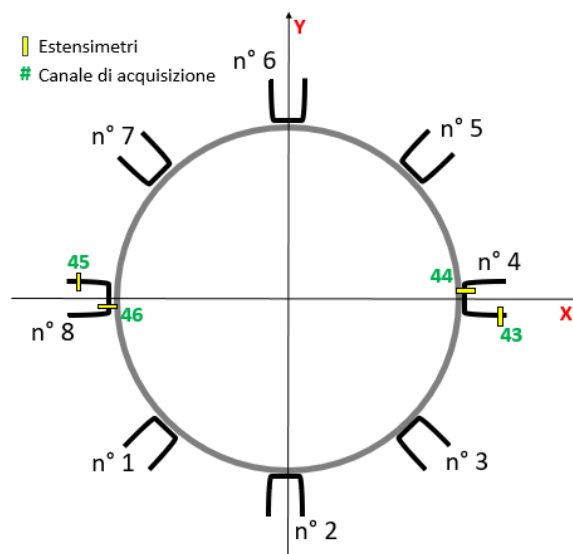
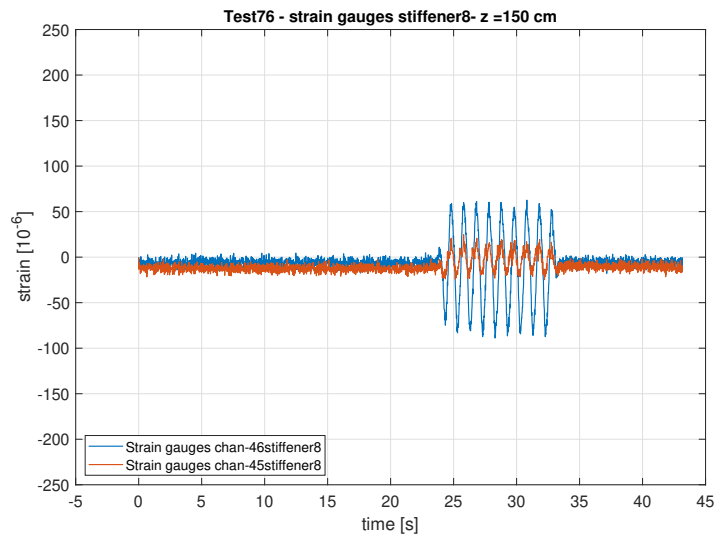
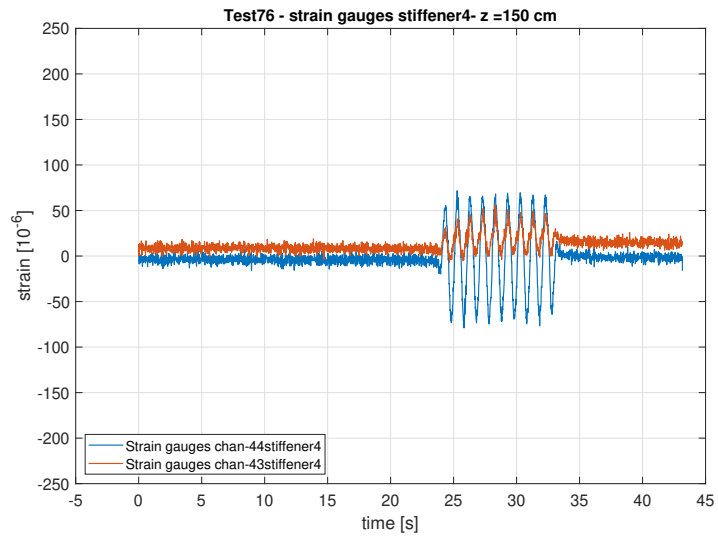




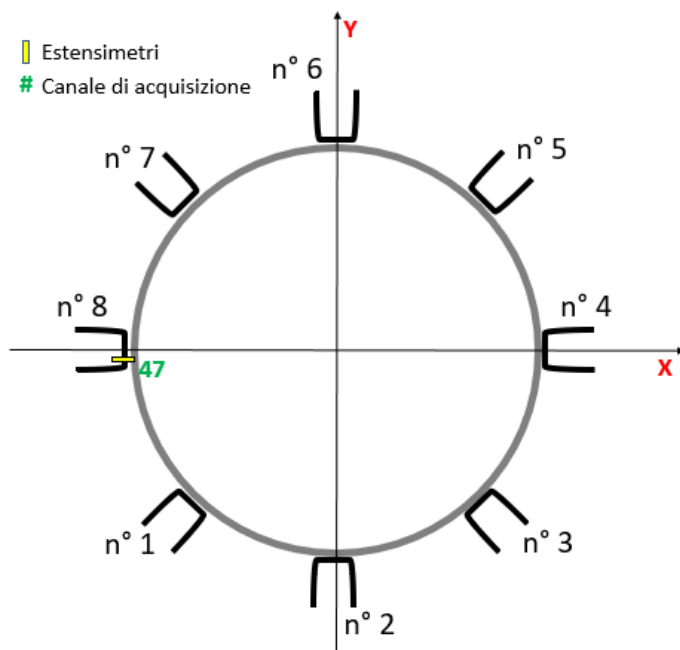
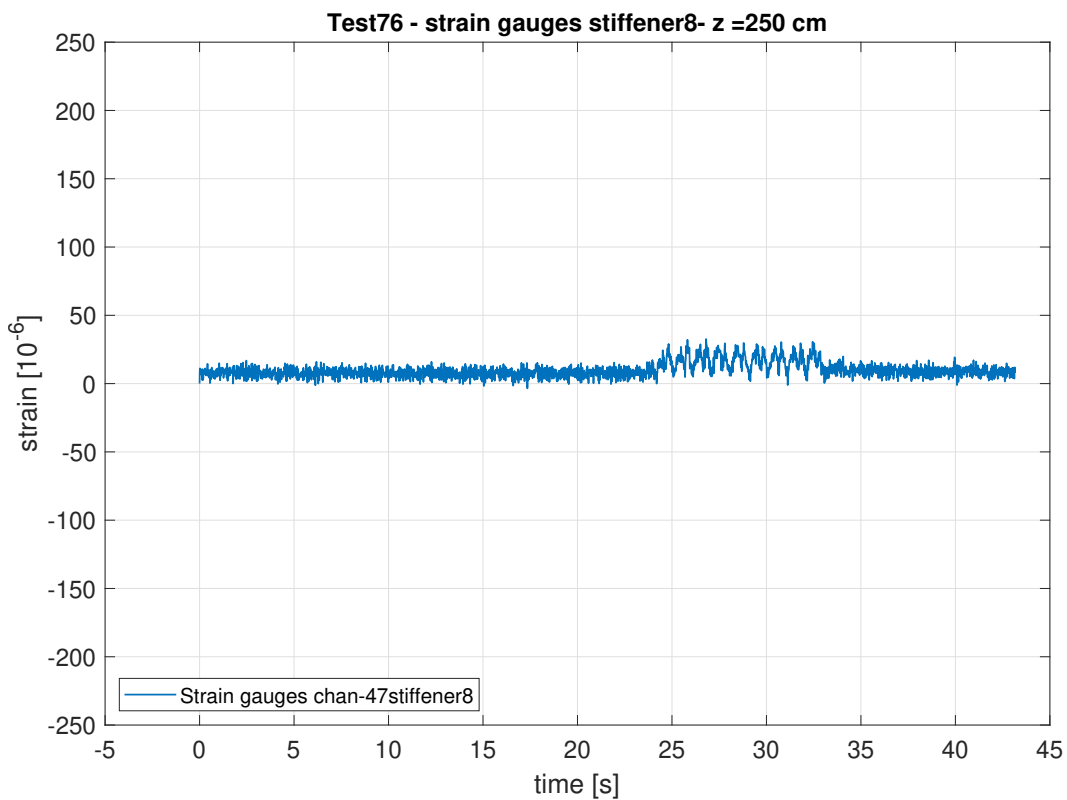
Quota z = 49 cm



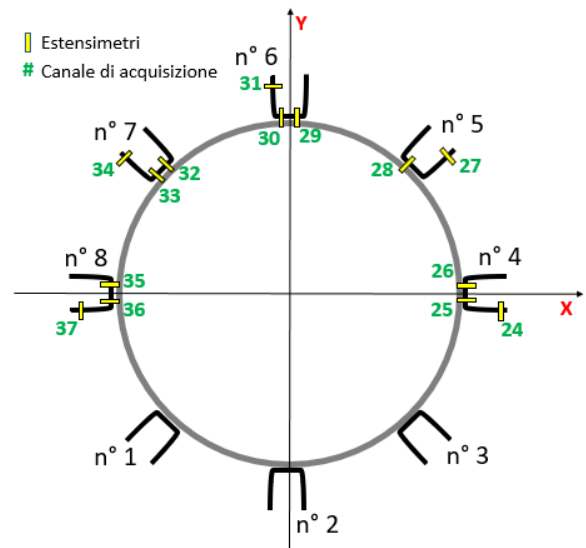
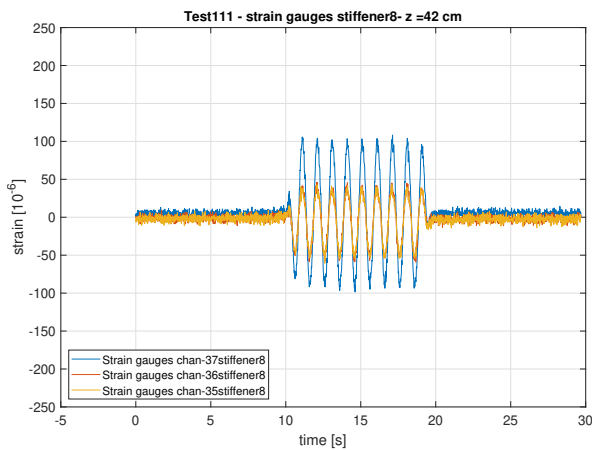
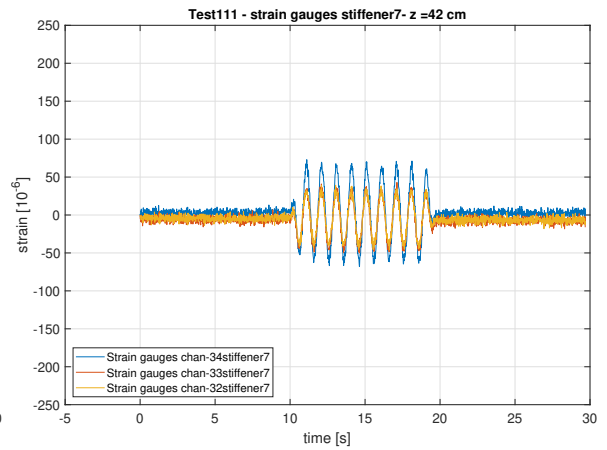
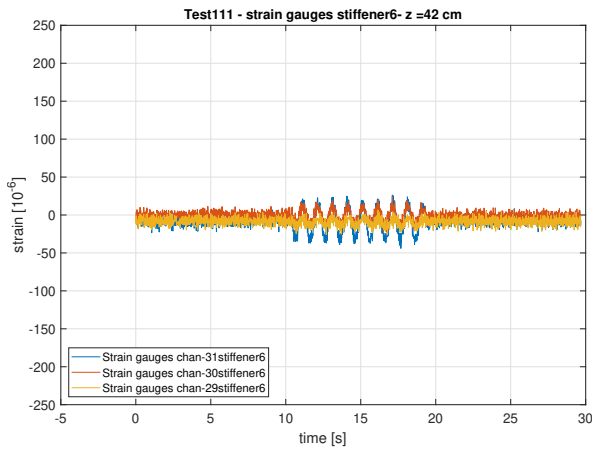
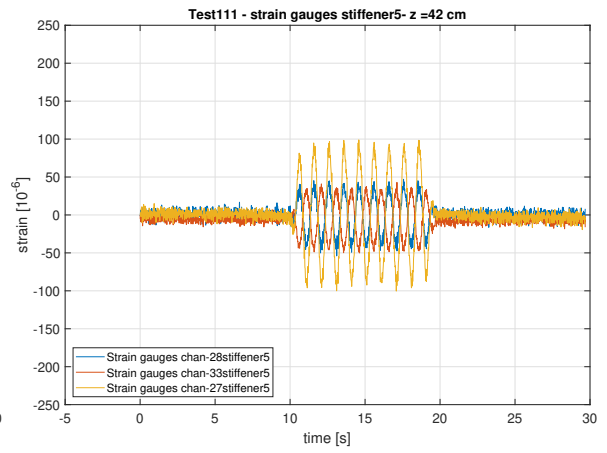
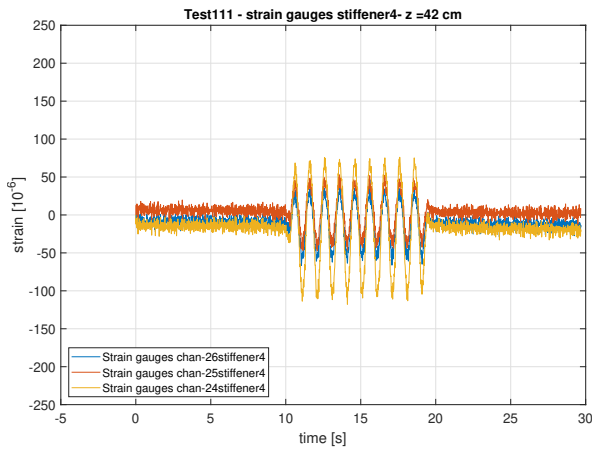
Quota z = 150 cm



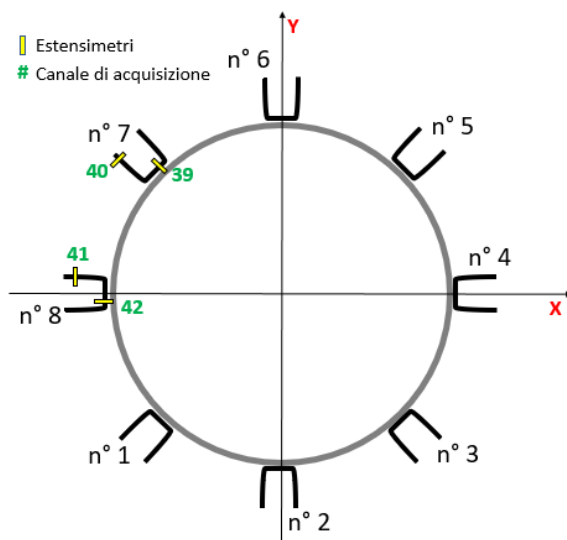
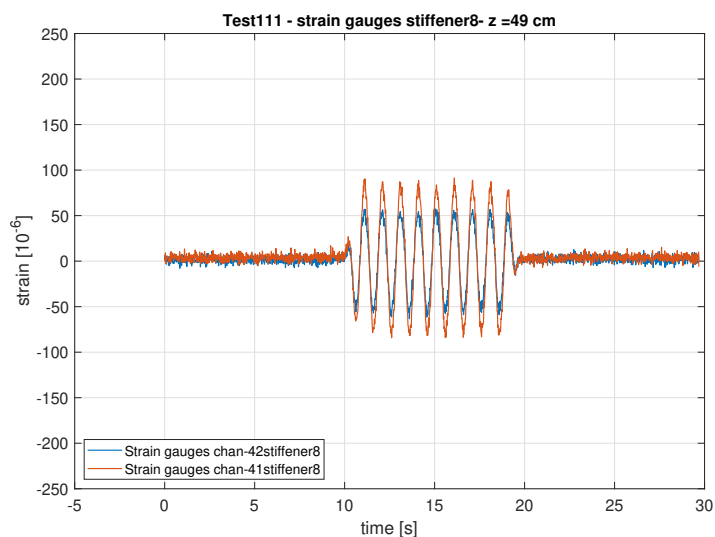
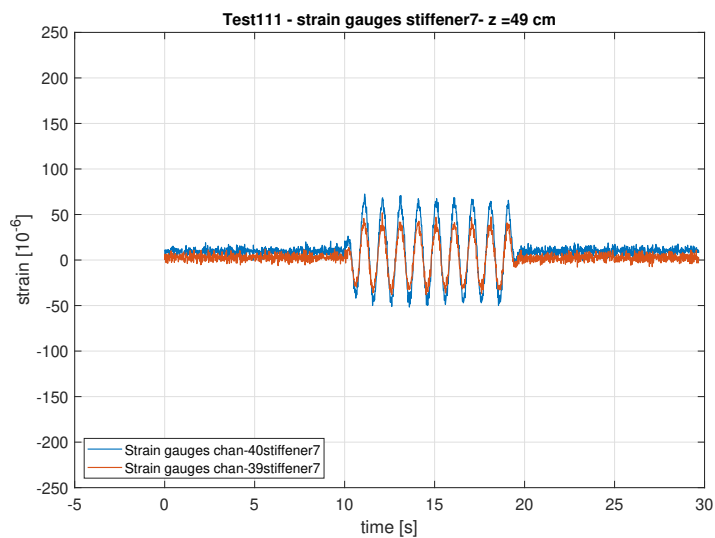
Quota z = 250 cm



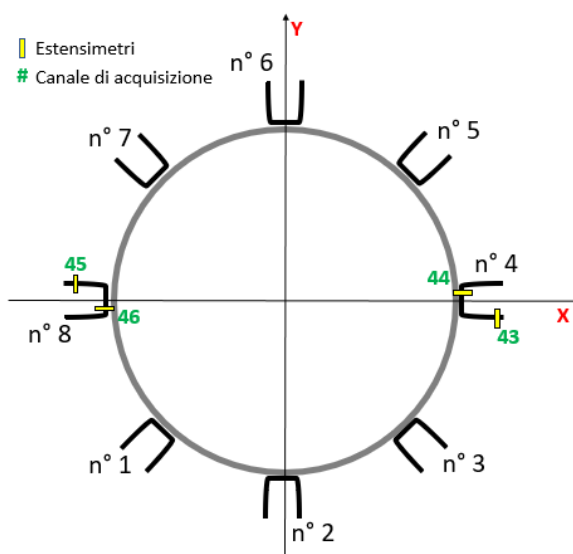
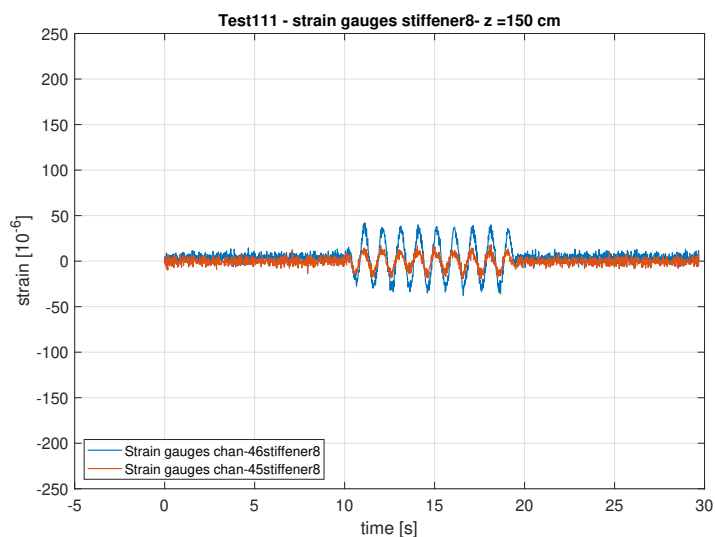
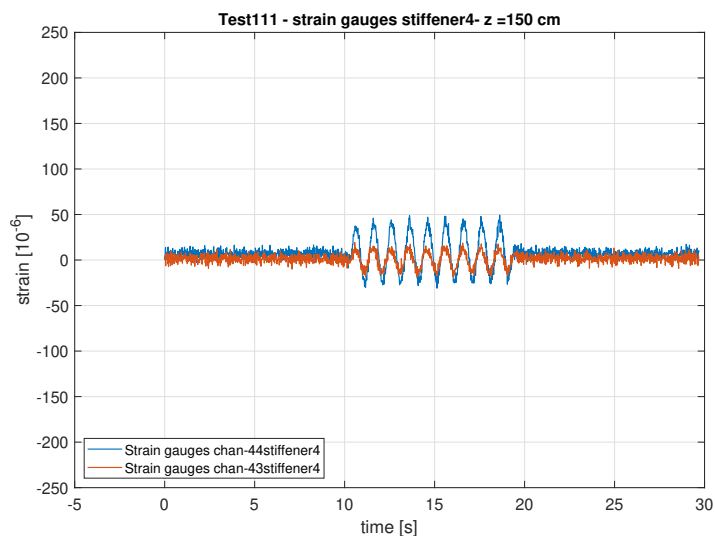
- Sinusoide dopo compattazione 0.3 g  
Quota z = 42 cm



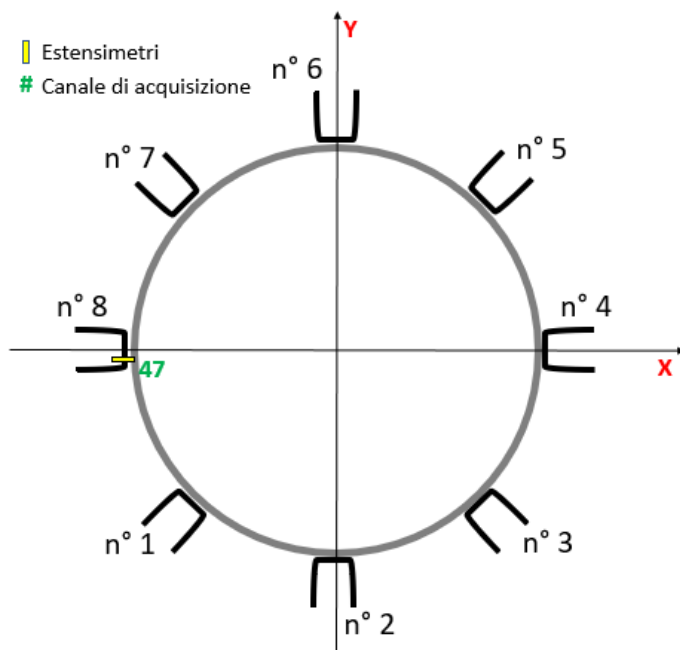
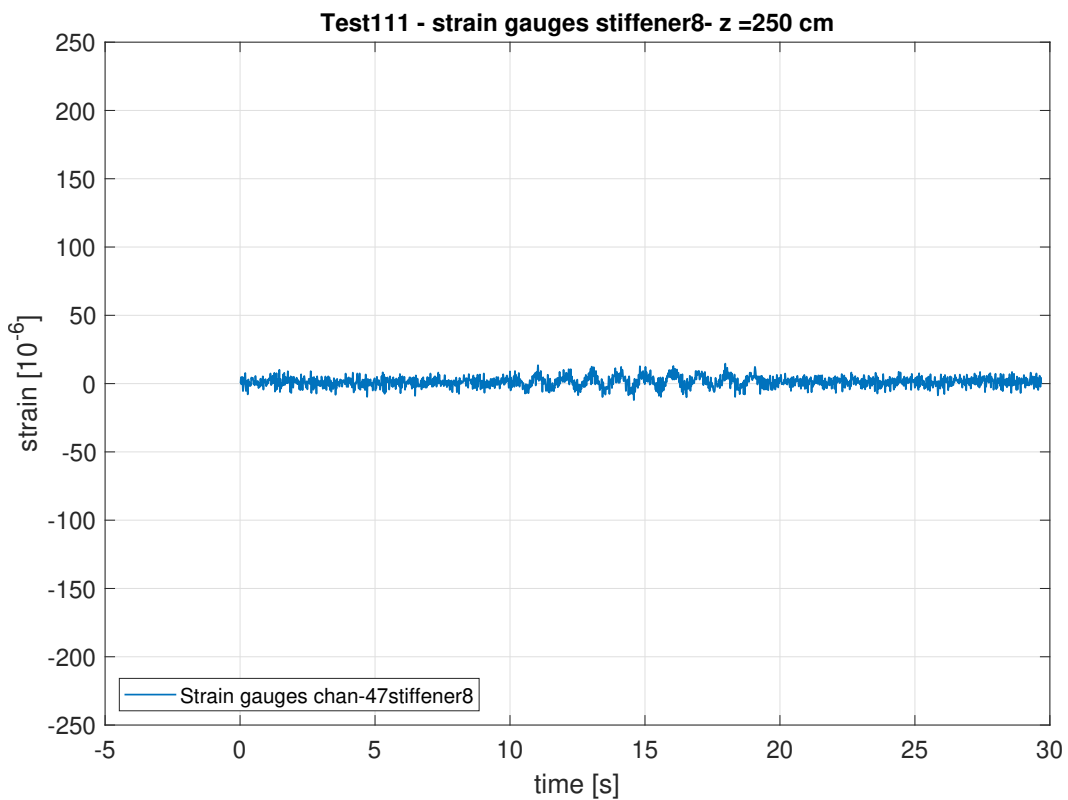
Quota z = 49 cm



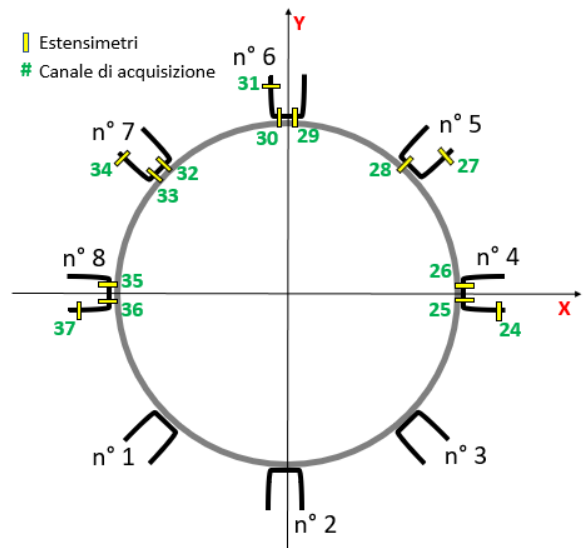
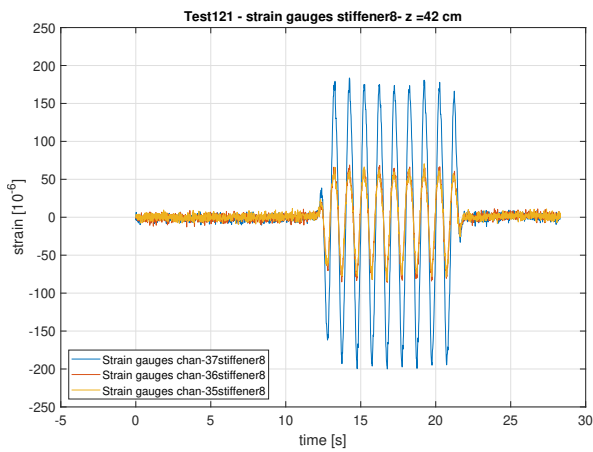
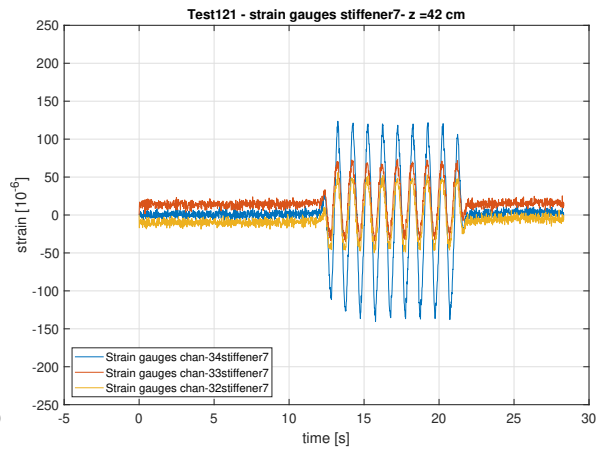
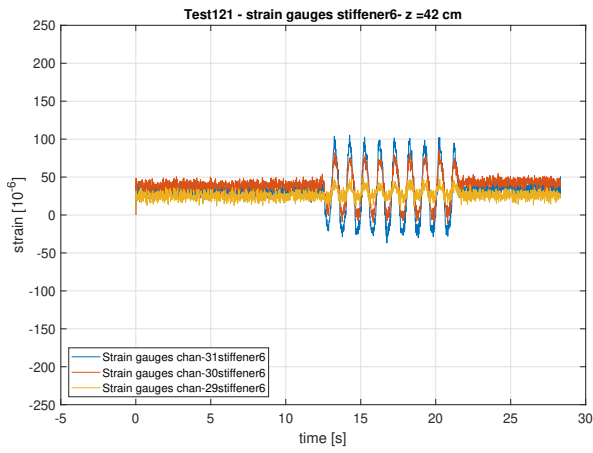
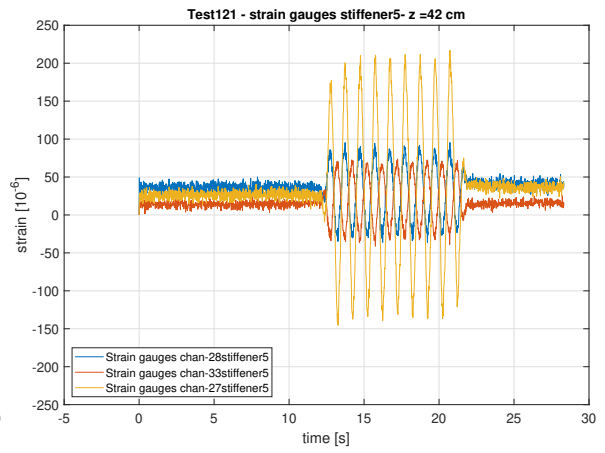
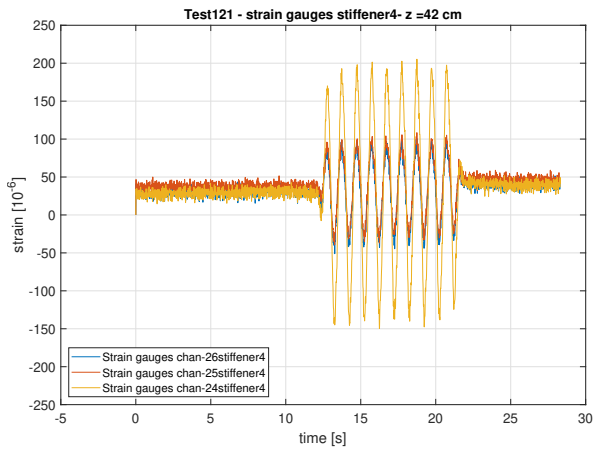
Quota z = 150 cm



Quota z = 250 cm

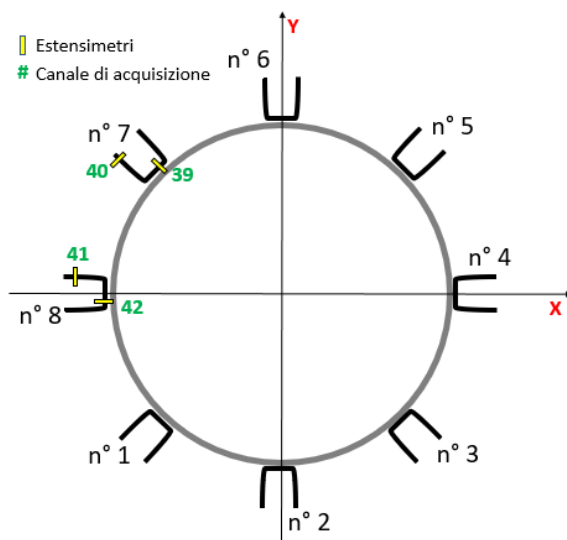
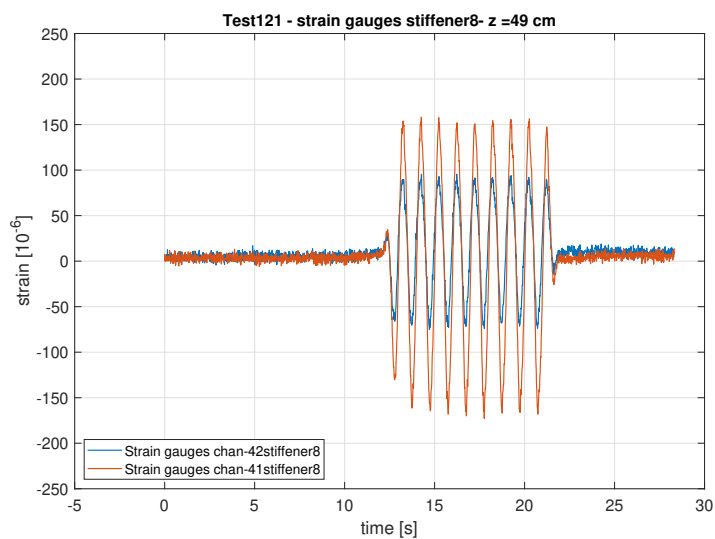
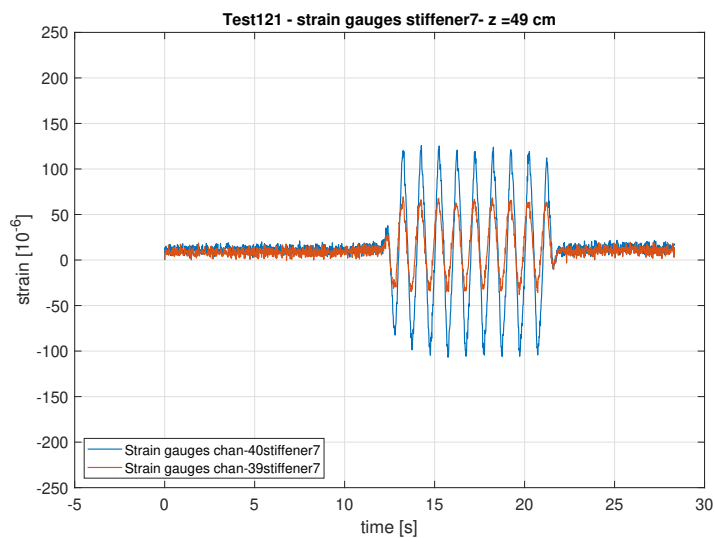


- Sinusoide dopo compattazione 0.5 g  
Quota z = 42 cm

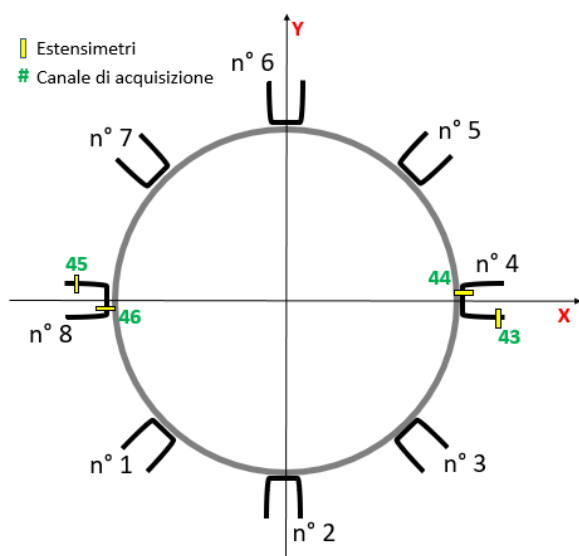
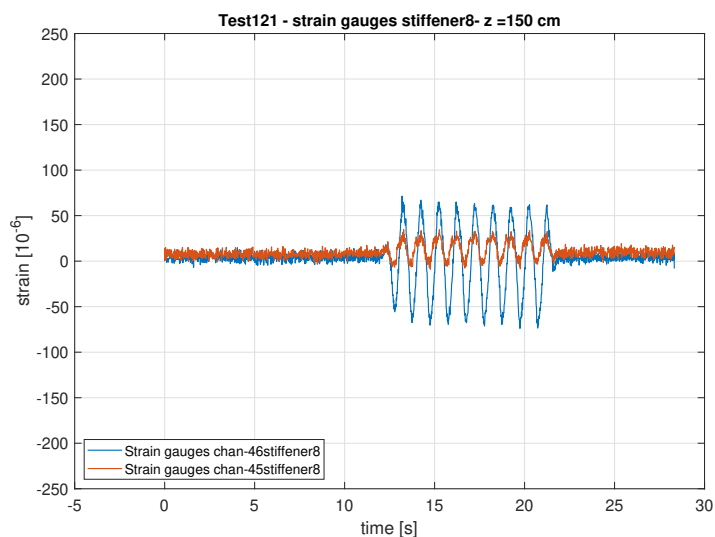
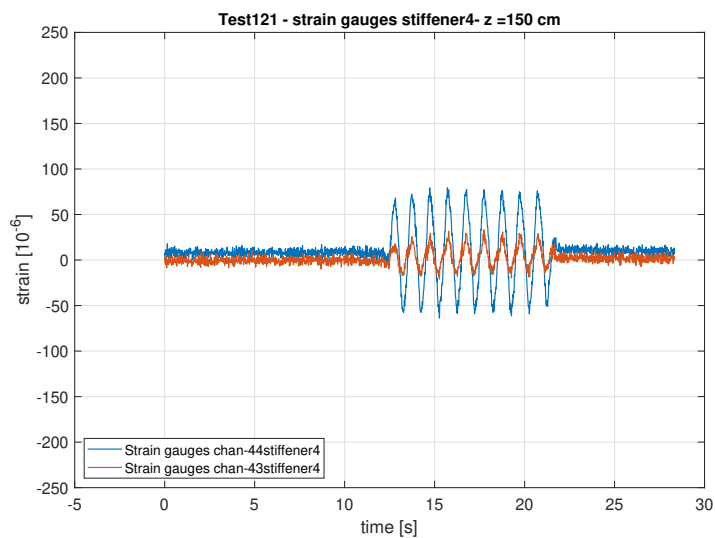




Quota z = 49 cm



Quota z = 150 cm



**Quota z = 250 cm**

