

Measurements

March 11, 2022

1 PARAMETERS

Sample name: ES.PVDF.003

Duration of measurements: 4.29 [s]

Load resistance: 2.00×10^4 [Ohms]

Circuit resistance: 2.00×10^{-1} [Ohms]

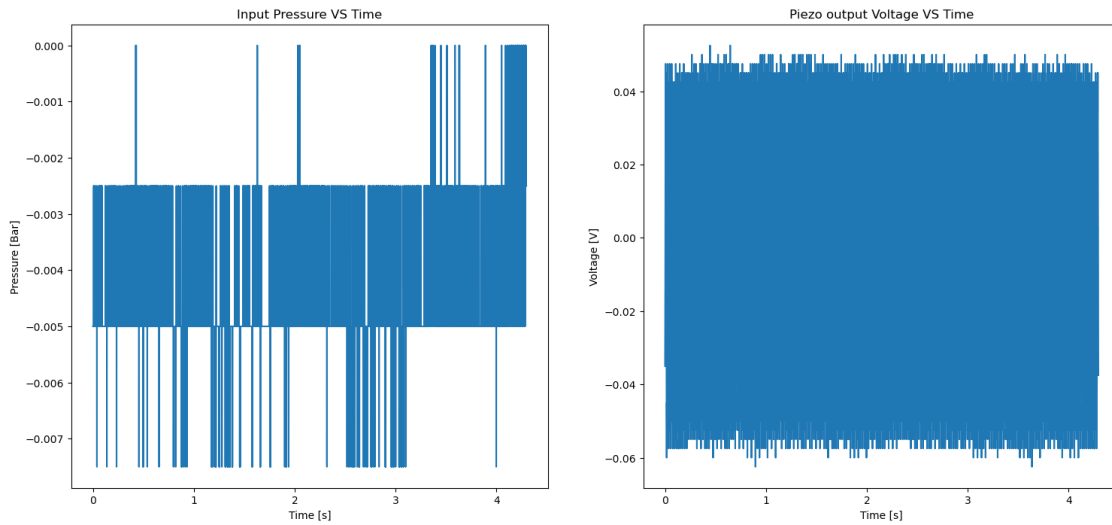
Number of periods displayed: 3

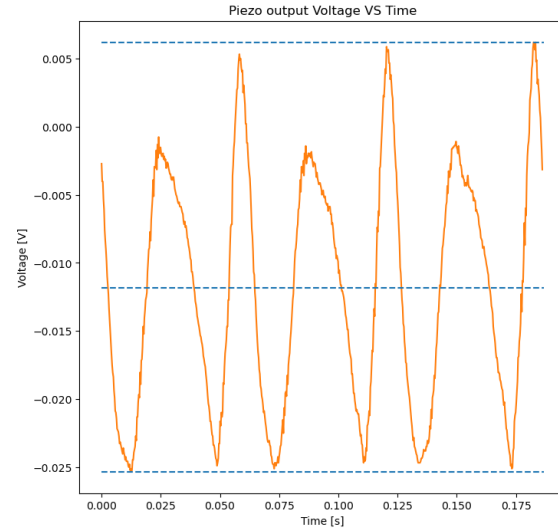
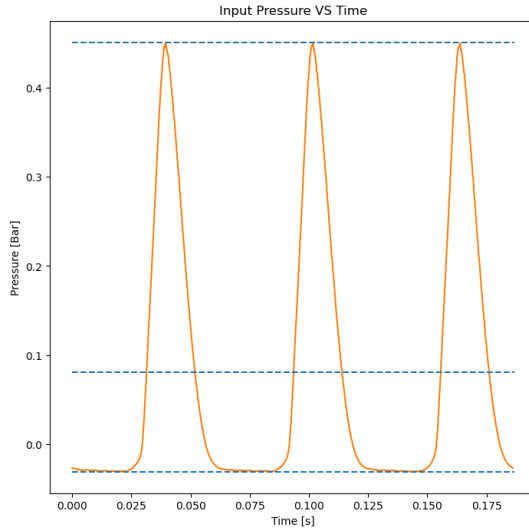
Maximum frequency for analysis: 200

BoundedFloatText(value=5.0)

2 PRESSURE AND VOLTAGE MEASUREMENTS

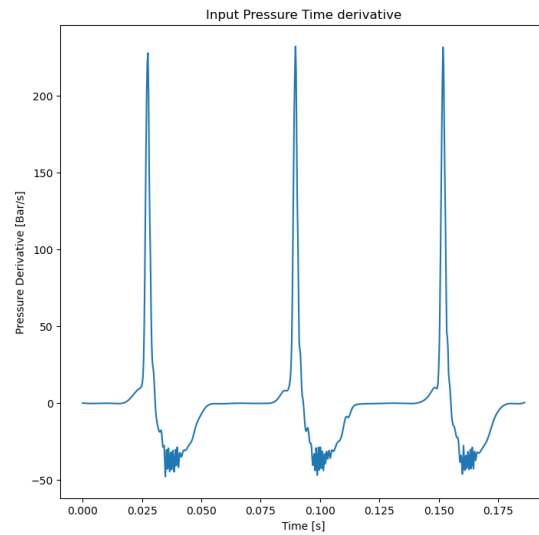
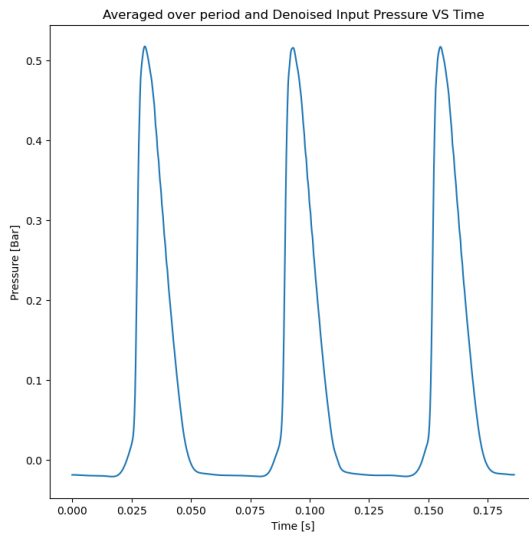
The input frequency is: 50.06 Hz



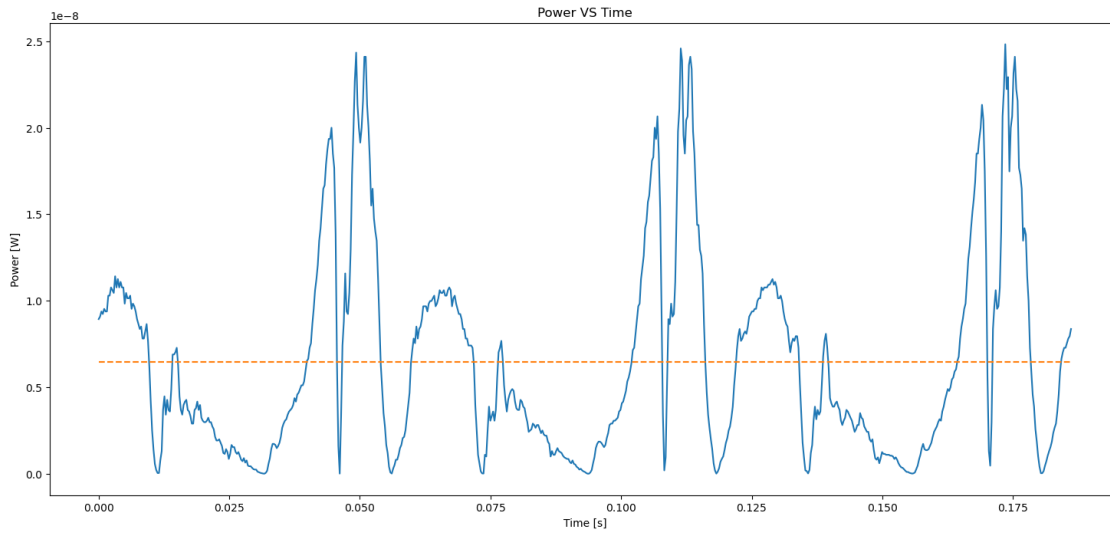


Max pressure: 0.53 [Bar]
 Min pressure: -0.03 [Bar]
 Peak to peak pressure: 0.56 [Bar]
 Mean pressure: 0.08 [Bar]
 Max voltage: 0.02 [V]
 Min voltage: -0.04 [V]
 Peak to peak voltage: 0.06 [V]
 Mean voltage: -0.01 [V]

3 PRESSURE DERIVATIVE



4 POWER

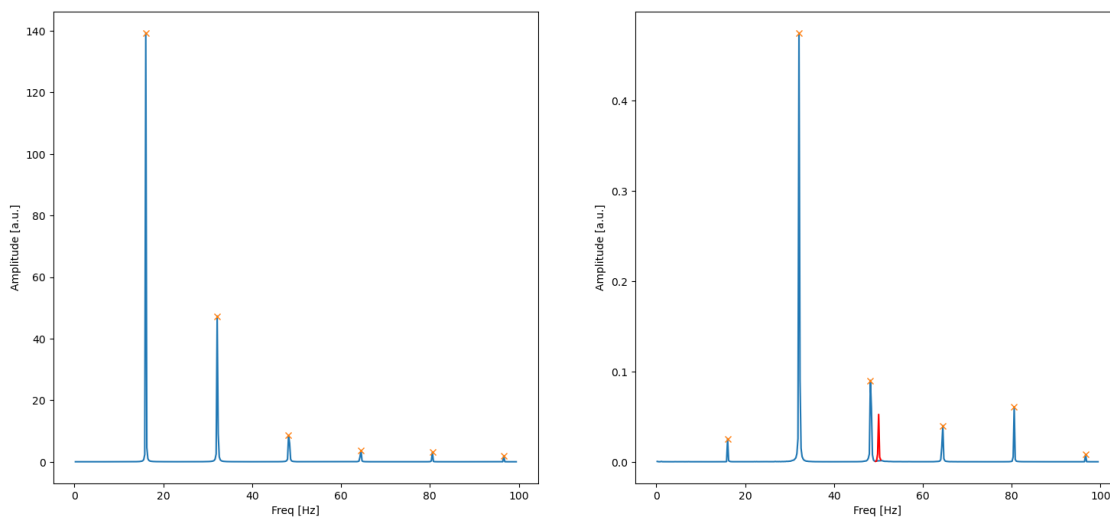


Mean power: 6.45×10^{-9} [W]

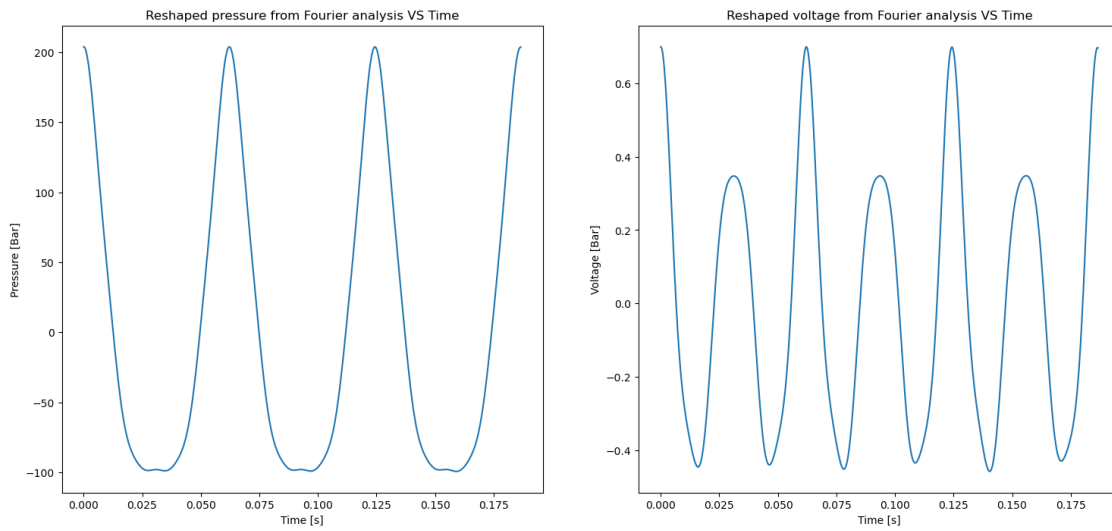
5 FREQUENCY ANALYSIS

5.1 Perform Fourier transform

```
/Users/eliottsarrey/opt/anaconda3/lib/python3.8/site-packages/numpy/core/_asarray.py:102: ComplexWarning: Casting complex values to real discards the imaginary part
  return array(a, dtype, copy=False, order=order)
```



5.2 Recreate signals



6 MODEL CHECK UP

