

Measurements

May 27, 2022

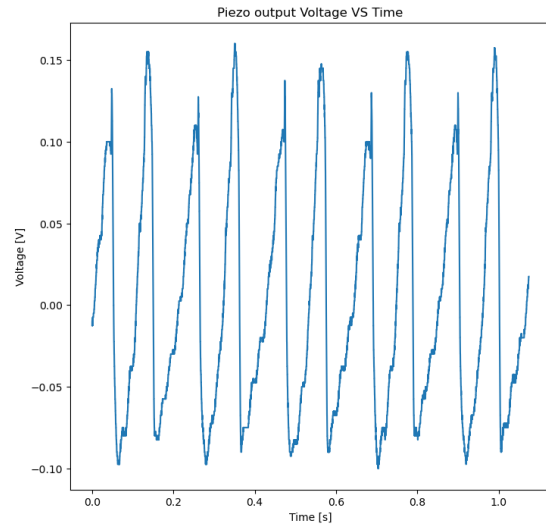
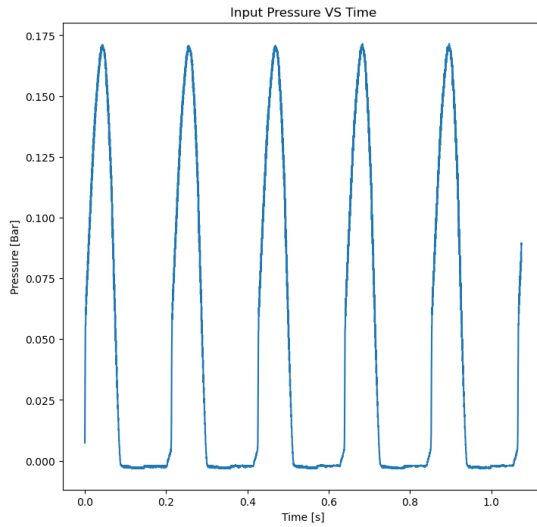
1 PARAMETERS

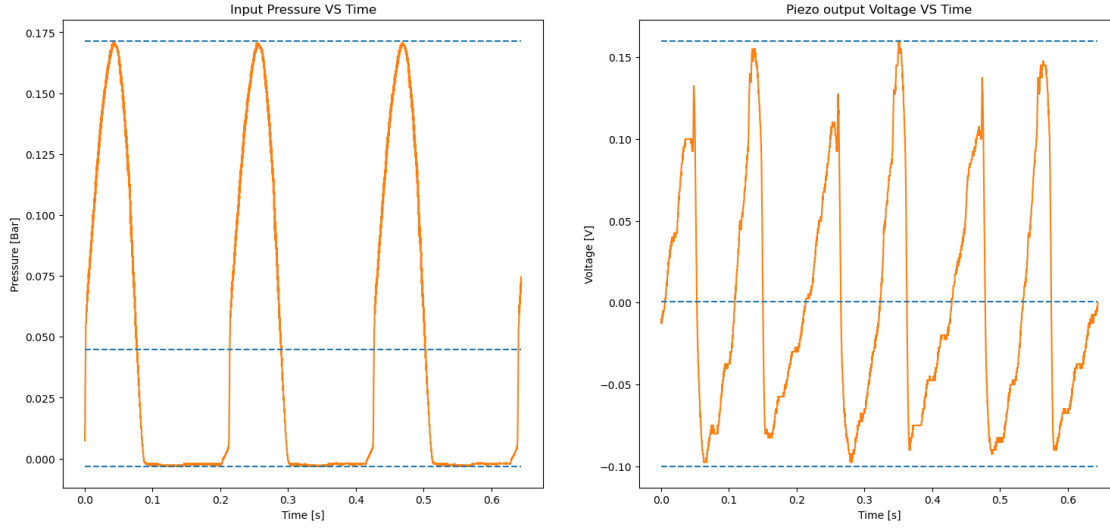
Sample name: PVDF-109-30min

	Parameter	Value	Unit
0	Sample name	PVDF-109-30min	
1	Measure duration	1.073741824	[s]
2	Rload	1000000.0	[Ohms]
3	Nb Periods	3.0	[1]
4	R Circuit	1.0	[Ohms]
5	Max Frequency	100.0	[Hz]

2 PRESSURE AND VOLTAGE MEASUREMENTS

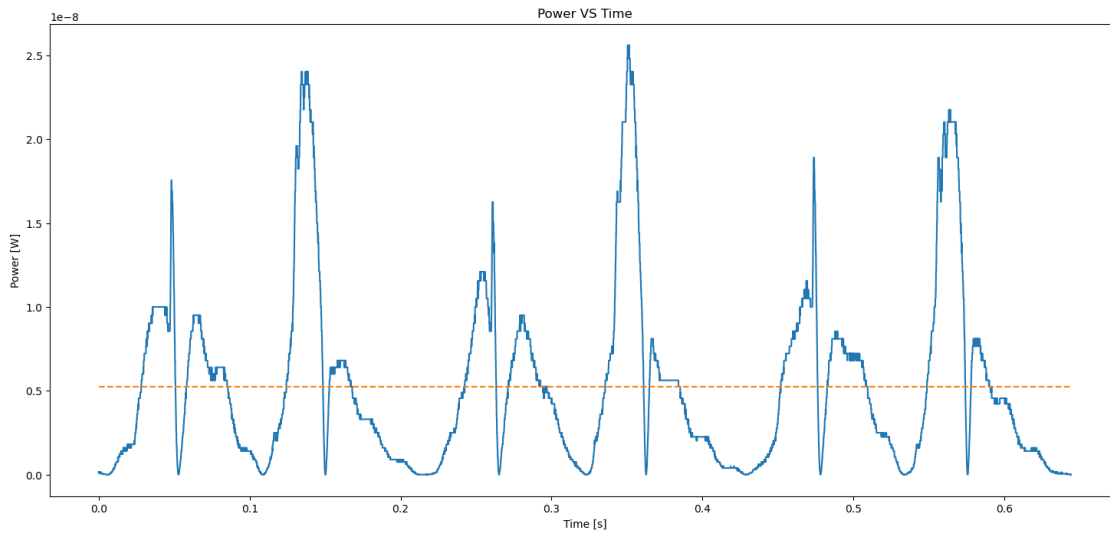
The input frequency is: 4.66 Hz





	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-3.15e-03	1.71e-01	1.75e-01	4.48e-02	4.74e-02
1	Voltage [V]	-1.00e-01	1.60e-01	2.60e-01	7.15e-04	6.22e-02

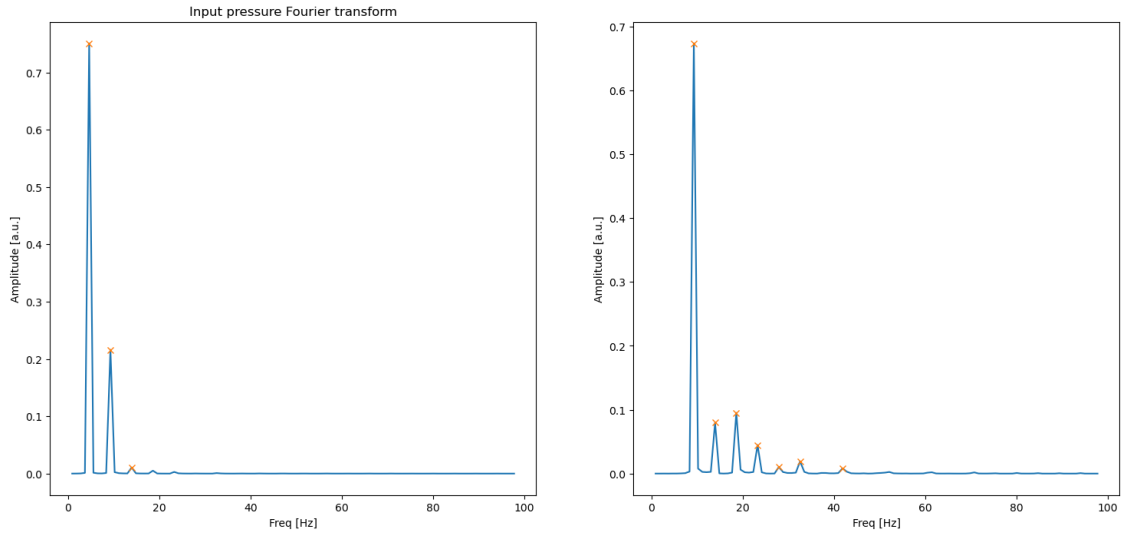
3 POWER



Mean power: 5.24e-09 [W]

4 FREQUENCY ANALYSIS

If an harmonic appears in the pressure Fourier transform. The piston has to be set to atmospheric pressure.



4.1 Voltage frequency peaks

	Freq [Hz]	Amplitude percentage
0	9.31	67.34
1	13.97	7.97
2	18.63	9.50
3	23.28	4.47
4	27.94	1.02
5	32.60	1.91
6	41.91	0.81

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	4.66	75.07
1	9.31	21.60
2	13.97	1.05