Measurements

April 22, 2022
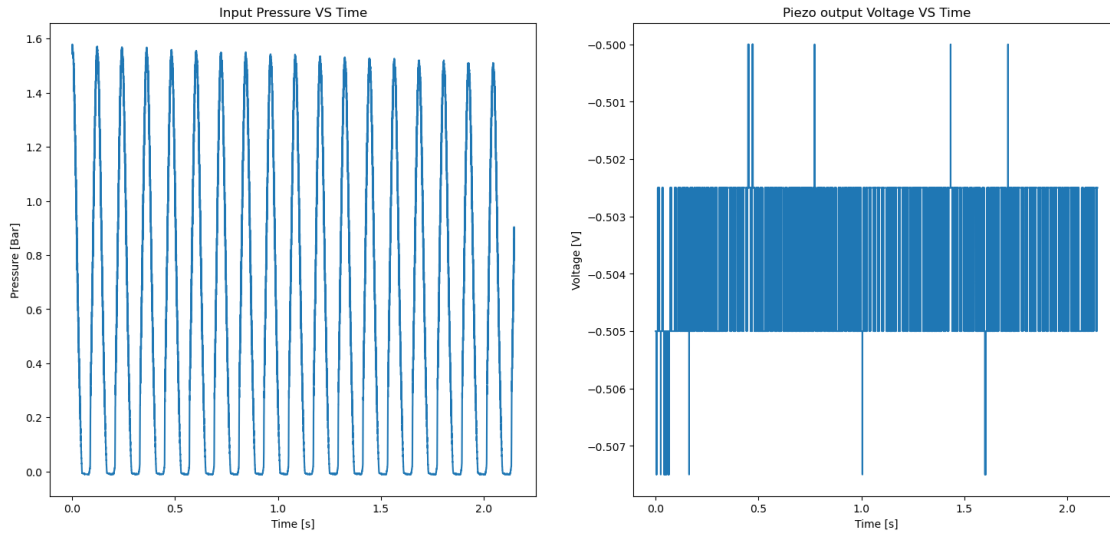
1 PARAMETERS

Sample name: ES.PVDV.E9.45m.100nm

	Parameter	Value	Unit
0	Sample name	ES.PVDV.E9.45m.100nm	
1	Measure duration	2.147483648	[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: 8.38 Hz
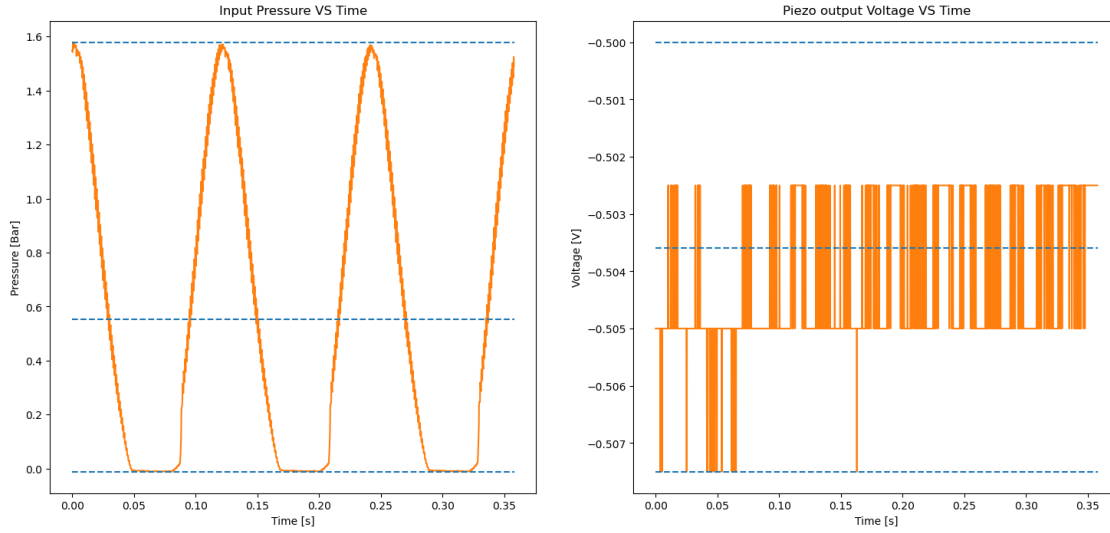
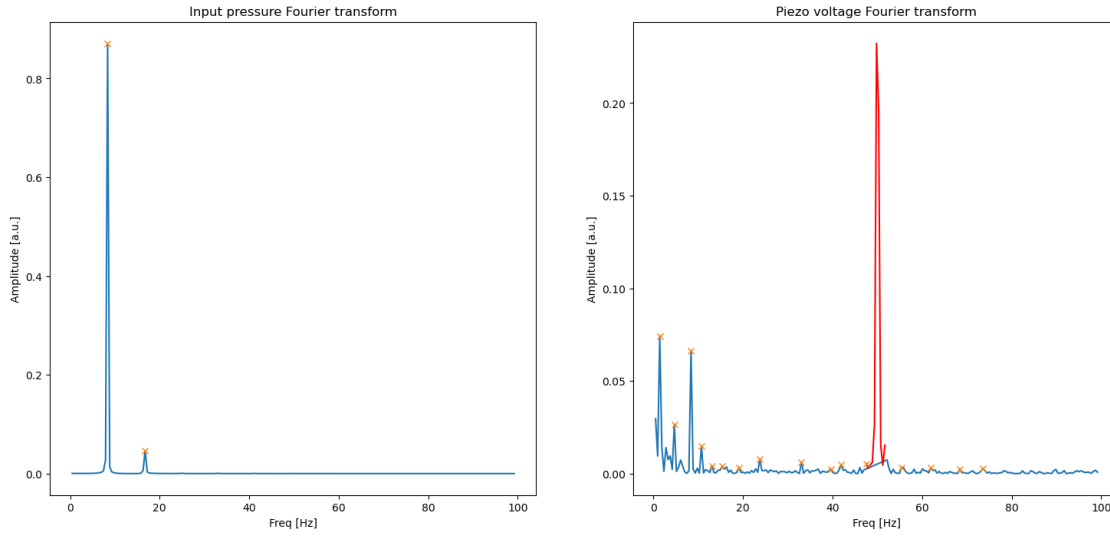|	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-1.12e-02	1.58e+00	1.59e+00	5.53e-01	5.58e-01
1	Voltage [V]	-5.07e-01	-5.00e-01	7.50e-03	-5.04e-01	5.04e-01

3 POWER
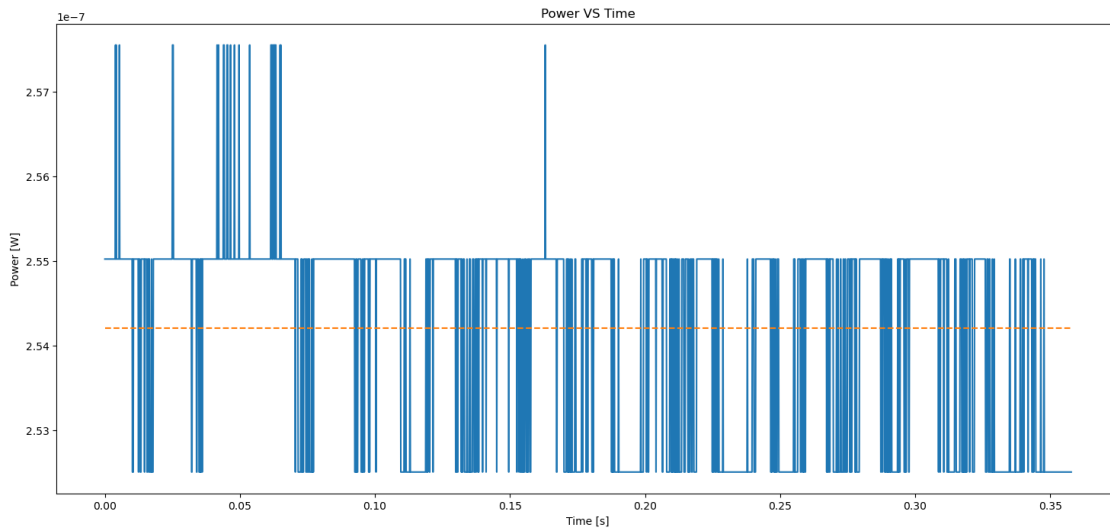
Mean power: 2.54e-07 [W]

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	1.40	7.42
1	4.66	2.66
2	8.38	6.64
3	10.71	1.47
4	13.04	0.42
5	15.37	0.39
6	19.09	0.33
7	23.75	0.77
8	33.06	0.62
9	39.58	0.25
10	41.91	0.48
11	47.50	0.54
12	55.42	0.34
13	61.94	0.32
14	68.46	0.26
15	73.58	0.27

4.2   Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	8.38	87.11
1	16.76	4.64