Measurements

April 22, 2022
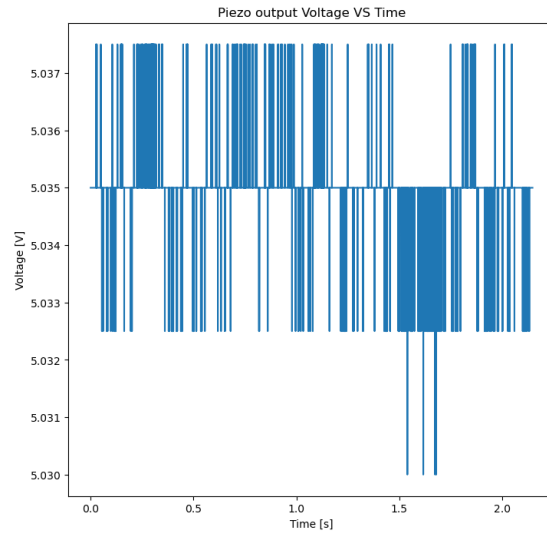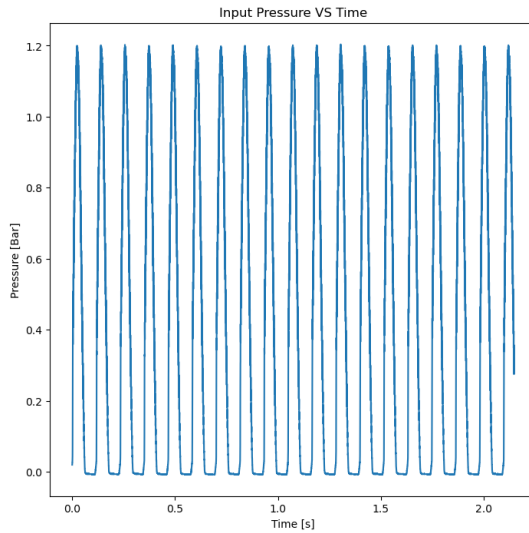
1 PARAMETERS

`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`
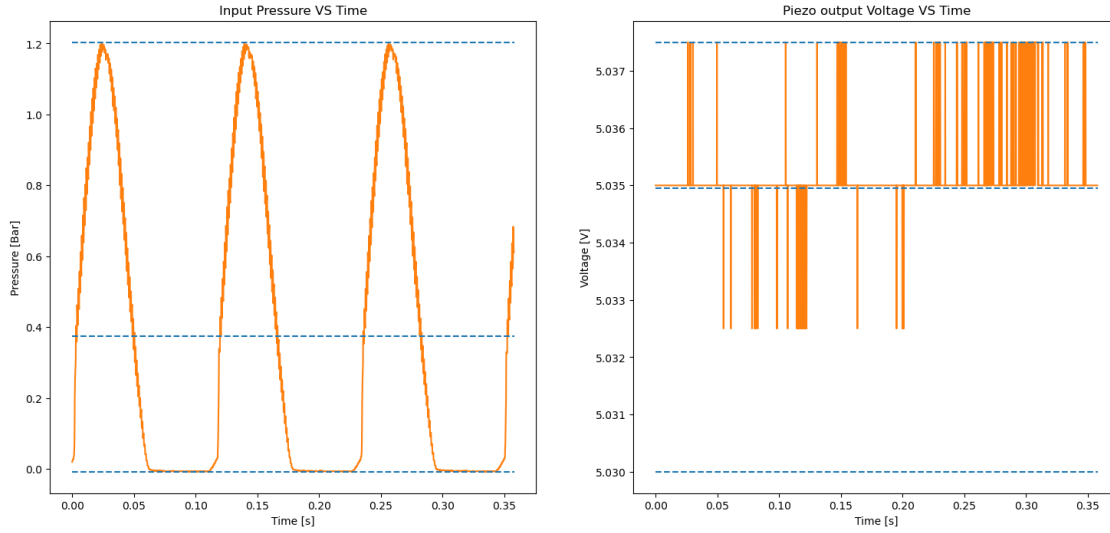
	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-7.50e-03	1.20e+00	1.21e+00	3.76e-01	3.81e-01
1	Voltage [V]	5.03e+00	5.04e+00	7.50e-03	5.03e+00	5.03e+00

3 POWER
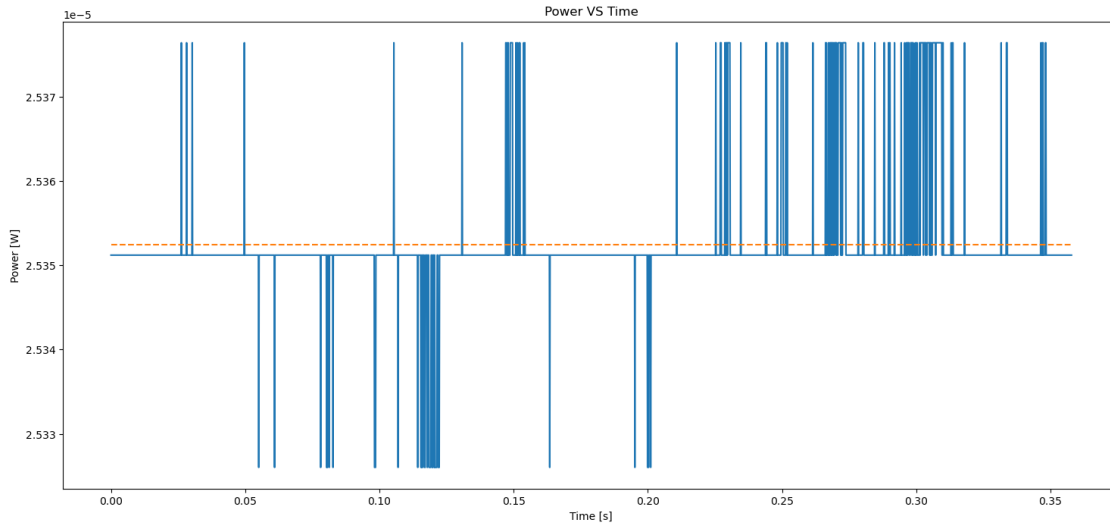
Mean power: 2.54e-05 [W]

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

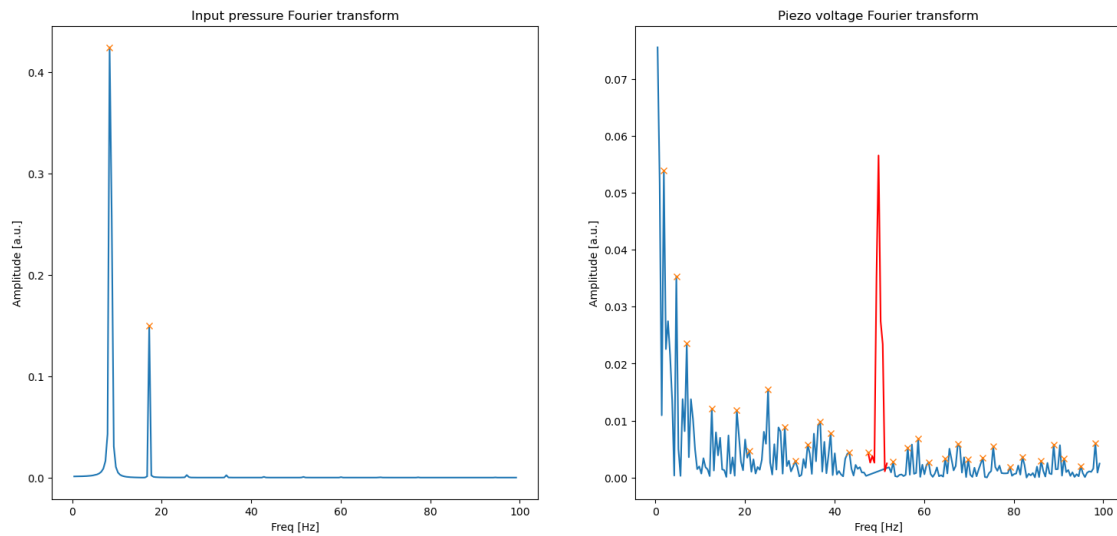|	Freq [Hz]	Amplitude percentage
0	1.86	5.38
1	4.66	3.53
2	6.99	2.35
3	12.57	1.21
4	18.16	1.18
5	20.96	0.47
6	25.15	1.55
7	28.87	0.89
8	31.20	0.29
9	34.00	0.58
10	36.79	0.98
11	39.12	0.78
12	43.31	0.44
13	47.50	0.44
14	53.09	0.28
15	56.35	0.53
16	58.68	0.68
17	61.01	0.27
18	64.73	0.34
19	67.53	0.59
20	69.85	0.32
21	73.11	0.34
22	75.44	0.55
23	79.17	0.18
24	81.96	0.37
25	86.15	0.29
26	88.95	0.58
27	91.28	0.33
28	95.00	0.20
29	98.26	0.61

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	8.38	42.47
1	17.23	15.00