

Measurements

April 22, 2022

1 PARAMETERS

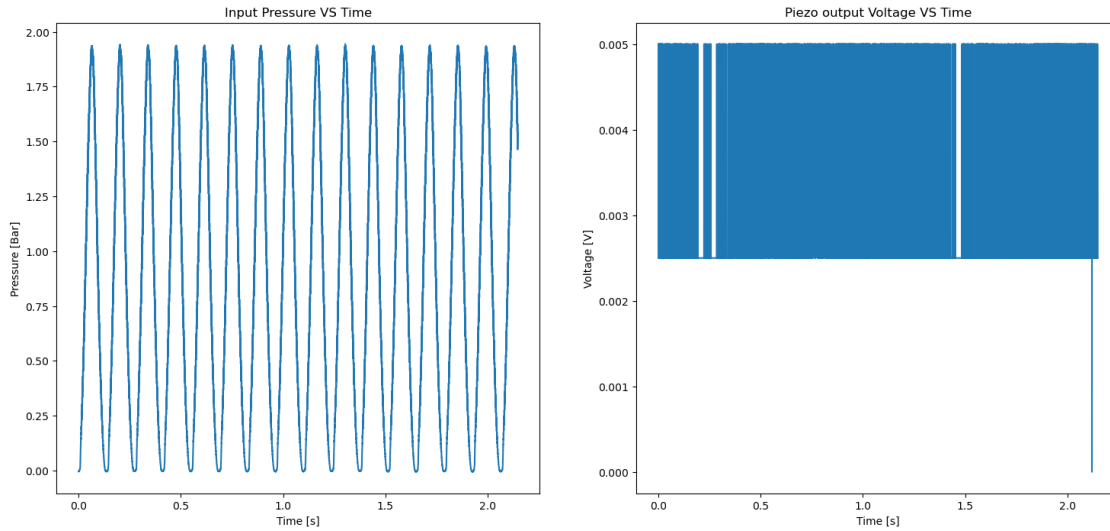
Sample name: ES.PVDV.E9.45m.100nm

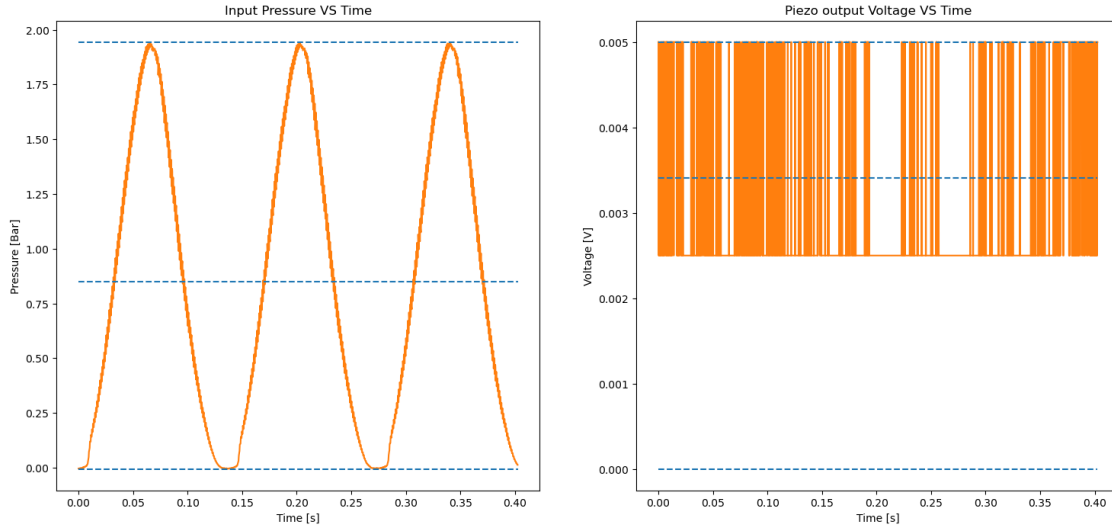
	Parameter	Value	Unit
0	Sample name	ES.PVDV.E9.45m.100nm	
1	Measure duration	2.147483648	[s]
2	Rload	1000000.0	[Ohms]
3	Nb Periods	3.0	[1]
4	R Circuit	1.0	[Ohms]
5	Max Frequency	100.0	[Hz]

2 PRESSURE AND VOLTAGE MEASUREMENTS

[0.005 0.005 0.0025 ... 0.0025 0.0025 0.0025]

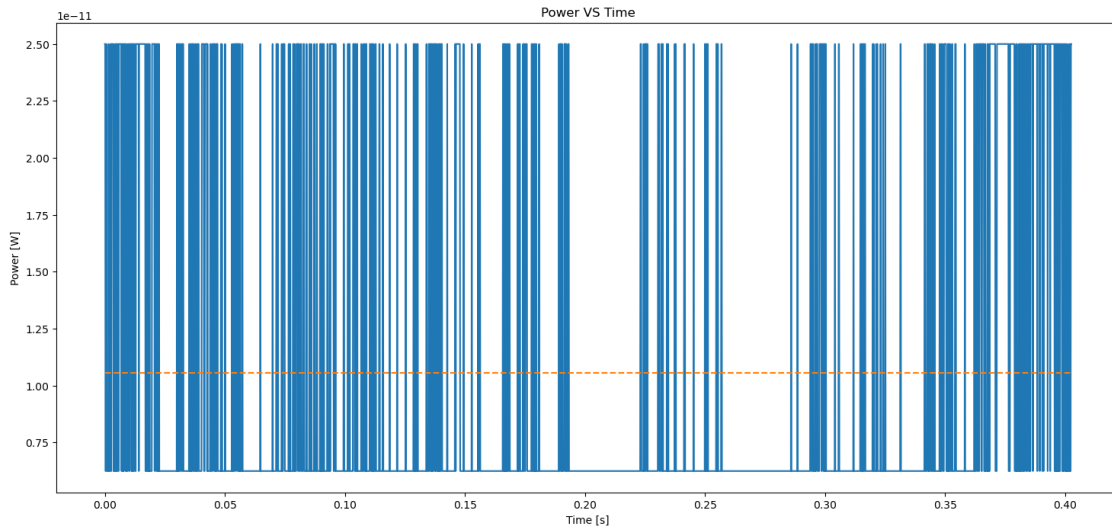
The input frequency is: 7.45 Hz





	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-6.25e-03	1.94e+00	1.95e+00	8.50e-01	8.50e-01
1	Voltage [V]	0.00e+00	5.00e-03	5.00e-03	3.41e-03	3.41e-03

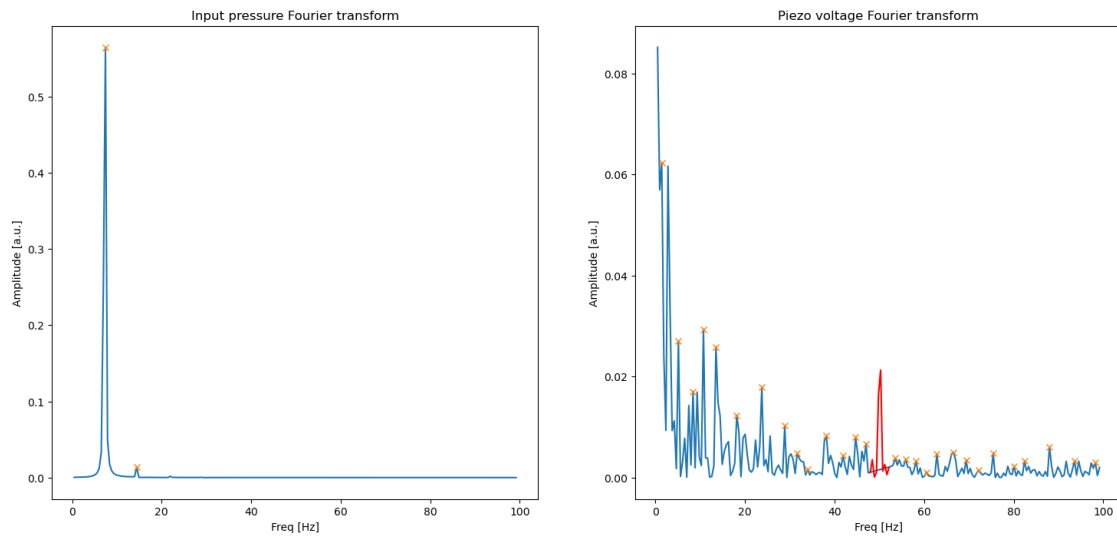
3 POWER



Mean power: 1.06e-11 [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	6.23
1	5.12	2.70
2	8.38	1.71
3	10.71	2.94
4	13.51	2.59
5	18.16	1.24
6	23.75	1.79
7	28.87	1.03
8	31.67	0.49
9	34.00	0.16
10	38.19	0.83
11	41.91	0.44
12	44.71	0.80
13	47.03	0.67
14	53.55	0.39
15	55.88	0.36
16	58.21	0.33
17	60.54	0.11
18	62.87	0.47
19	66.59	0.50
20	69.39	0.34
21	72.18	0.15
22	75.44	0.48
23	80.10	0.23
24	82.43	0.33
25	88.02	0.61
26	93.60	0.33
27	98.26	0.29

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	7.45	56.44
1	14.44	1.38