Measurements

March 16, 2022

1 PARAMETERS

```
HBox(children=(Label(value='Sample name :'), Text(value='test',␣
↪placeholder='Custom Name')))
```

```
HBox(children=(Label(value='Measure duration [s] :'), parameter(value=5.0,␣
↪continuous_update=True, step=0.1)))
```

```
HBox(children=(Label(value='Load resistance [Ohms] :'), parameter(value=300000.
↪0, continuous_update=True, step…
```

```
HBox(children=(Label(value='Nombre of periods [1] :'), parameter(value=5.0,␣
↪continuous_update=True, step=1.0))…
```

```
HBox(children=(Label(value='Circuit resistance [Ohms] :'), parameter(value=1.0,␣
↪continuous_update=True, step=1…
```

```
HBox(children=(Label(value='Maximum frequency for analysis: [Hz] :'),␣
↪parameter(value=100.0, continuous_update…
```

```
Button(description='Save parameters', style=ButtonStyle())
```

```
Output()
```

```
Sample name: test
```

	Parameter	Value	Unit
0	Sample name	test	
1	Measure duration	5.0	[s]
2	Rload	300000.0	[Ohms]
3	Nb Periods	5.0	[1]
4	R Circuit	1.0	[Ohms]
5	Max Frequency	100.0	[Hz]

2 PRESSURE AND VOLTAGE MEASUREMENTS
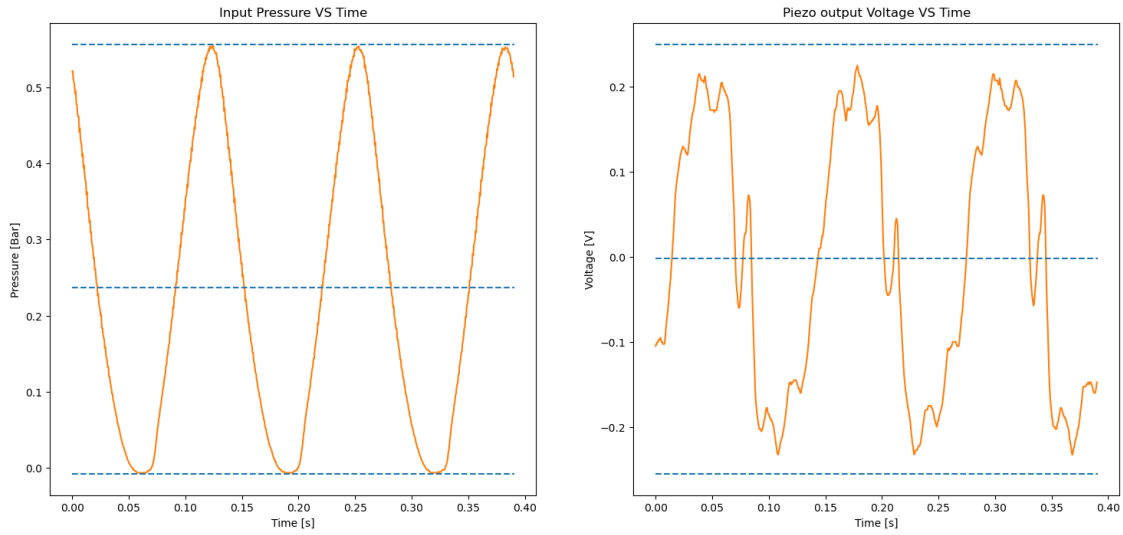
	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-7.50e-03	5.56e-01	5.64e-01	2.37e-01	2.38e-01
1	Voltage [V]	-2.55e-01	2.50e-01	5.05e-01	-1.91e-03	1.40e-01

3 POWER
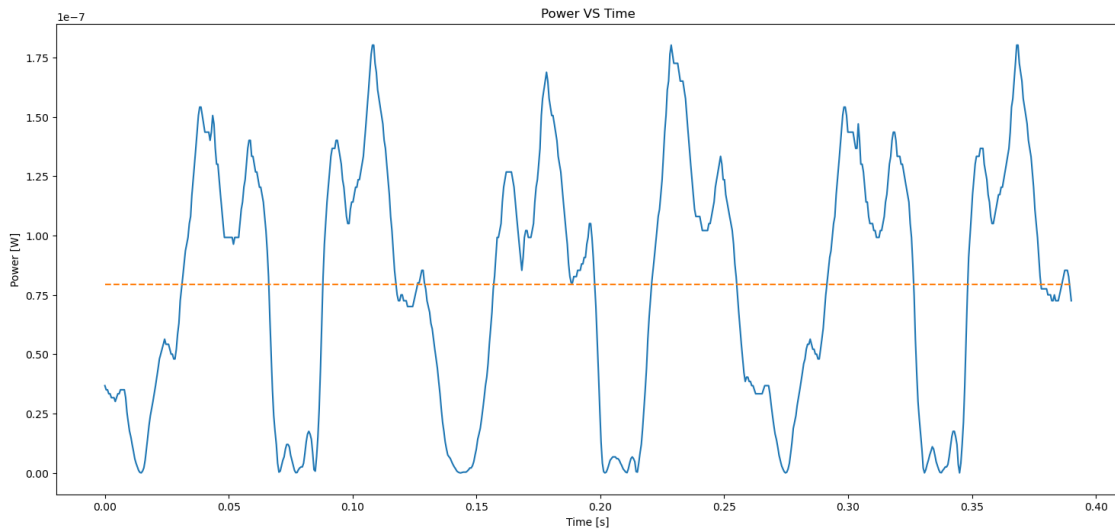
Mean power: 7.93e-08 [W]

4 FREQUENCY ANALYSIS
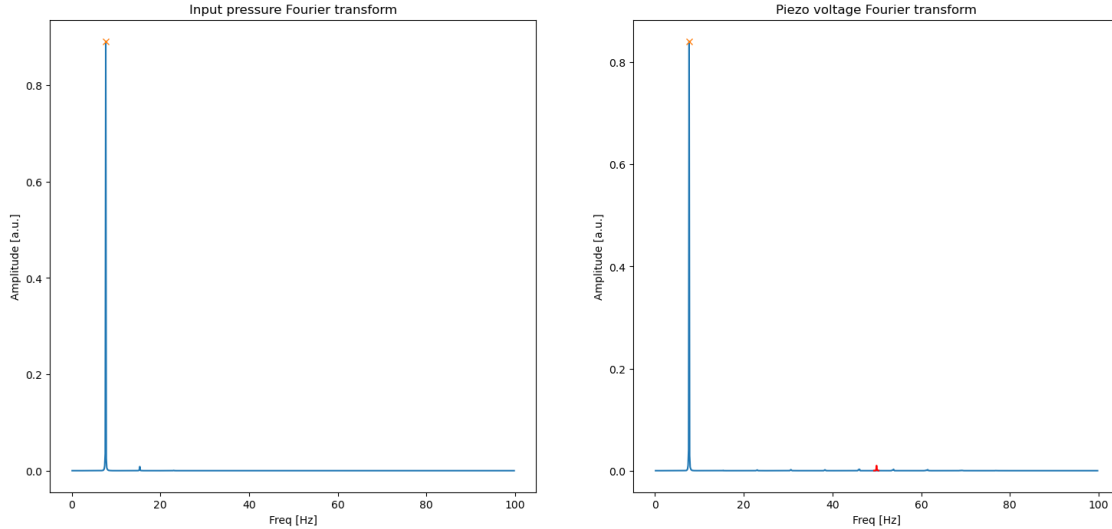
4.1 Voltage frequency peaks

	Freq [Hz]	Amplitude percentage
0	7.68	84.13

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	7.68	89.16

```
[SaveTXT] CSV successfully created
[SaveTXT] Writing to ./data/2022/03_March/16/12h37/test/test.data.csv

[NbConvertApp] WARNING | pattern "NOTINREPORT'" matched no files
[NbConvertApp] Converting notebook Measurements.ipynb to pdf
[NbConvertApp] ERROR | Error while converting 'Measurements.ipynb'
Traceback (most recent call last):
  File "C:\ProgramData\Anaconda3\lib\site-packages\nbconvert\nbconvertapp.py",
line 412, in export_single_notebook
    output, resources = self.exporter.from_filename(notebook_filename,
resources=resources)
  File "C:\ProgramData\Anaconda3\lib\site-
packages\nbconvert\exporters\exporter.py", line 181, in from_filename
    return self.from_file(f, resources=resources, **kw)
  File "C:\ProgramData\Anaconda3\lib\site-
packages\nbconvert\exporters\exporter.py", line 199, in from_file
    return self.from_notebook_node(nbformat.read(file_stream, as_version=4),
```

```
resources=resources, **kw)
  File "C:\ProgramData\Anaconda3\lib\site-packages\nbconvert\exporters\pdf.py",
line 168, in from_notebook_node
    latex, resources = super().from_notebook_node(
  File "C:\ProgramData\Anaconda3\lib\site-
packages\nbconvert\exporters\latex.py", line 77, in from_notebook_node
    return super().from_notebook_node(nb, resources, **kw)
  File "C:\ProgramData\Anaconda3\lib\site-
packages\nbconvert\exporters\templateexporter.py", line 390, in
from_notebook_node
    output = self.template.render(nb=nb_copy, resources=resources)
  File "C:\ProgramData\Anaconda3\lib\site-packages\jinja2\environment.py", line
1090, in render
    self.environment.handle_exception()
  File "C:\ProgramData\Anaconda3\lib\site-packages\jinja2\environment.py", line
832, in handle_exception
    reraise(*rewrite_traceback_stack(source=source))
  File "C:\ProgramData\Anaconda3\lib\site-packages\jinja2\_compat.py", line 28,
in reraise
    raise value.with_traceback(tb)
  File
"C:\ProgramData\Anaconda3\share\jupyter\nbconvert\templates\latex\index.tex.j2",
line 8, in top-level template code
    ((* extends cell_style *))
  File "C:\ProgramData\Anaconda3\share\jupyter\nbconvert\templates\latex\style_j
upyter.tex.j2", line 176, in top-level template code
    \prompt{(((prompt)))}{(((prompt_color)))}{(((execution_count)))}{(((extra_sp
ace)))}
  File
"C:\ProgramData\Anaconda3\share\jupyter\nbconvert\templates\latex\base.tex.j2",
line 7, in top-level template code
    ((*- extends 'document_contents.tex.j2' -*))
  File "C:\ProgramData\Anaconda3\share\jupyter\nbconvert\templates\latex\documen
t_contents.tex.j2", line 51, in top-level template code
    ((*- block figure scoped -*))
  File "C:\ProgramData\Anaconda3\share\jupyter\nbconvert\templates\latex\display
_priority.j2", line 5, in top-level template code
    ((*- extends 'null.j2' -*))
  File
"C:\ProgramData\Anaconda3\share\jupyter\nbconvert\templates\latex\null.j2", line
30, in top-level template code
    ((*- block body -*))
  File
"C:\ProgramData\Anaconda3\share\jupyter\nbconvert\templates\latex\base.tex.j2",
line 206, in block "body"
    ((( super() )))
  File
"C:\ProgramData\Anaconda3\share\jupyter\nbconvert\templates\latex\null.j2", line
```

```
32, in block "body"
    ((*- block any_cell scoped -*))
  File
"C:\ProgramData\Anaconda3\share\jupyter\nbconvert\templates\latex\null.j2", line
85, in block "any_cell"
    ((*- block markdowncell scoped-*)) ((*- endblock markdowncell -*))
  File "C:\ProgramData\Anaconda3\share\jupyter\nbconvert\templates\latex\documen
t_contents.tex.j2", line 68, in block "markdowncell"
    ((( cell.source | citation2latex | strip_files_prefix |
convert_pandoc('markdown+tex_math_double_backslash', 'json',extra_args=[]) |
resolve_references | convert_pandoc('json','latex'))))
  File "C:\ProgramData\Anaconda3\lib\site-packages\nbconvert\filters\pandoc.py",
line 24, in convert_pandoc
    return pandoc(source, from_format, to_format, extra_args=extra_args)
  File "C:\ProgramData\Anaconda3\lib\site-packages\nbconvert\utils\pandoc.py",
line 52, in pandoc
    check_pandoc_version()
  File "C:\ProgramData\Anaconda3\lib\site-packages\nbconvert\utils\pandoc.py",
line 100, in check_pandoc_version
    v = get_pandoc_version()
  File "C:\ProgramData\Anaconda3\lib\site-packages\nbconvert\utils\pandoc.py",
line 77, in get_pandoc_version
    raise PandocMissing()
nbconvert.utils.pandoc.PandocMissing: Pandoc wasn't found.
Please check that pandoc is installed:
https://pandoc.org/installing.html
```