**EEG Electrodes cont.**

22, 11, 5.5, 2.75mm ECG electrodes

* Print 2 Sets
* Acquire ECG using BIOPACK.
  + Note down their settings.
    - Filters
    - Sample rate
    - Scale
    - Other settings
    - Electrode Configuration
* Analyze the signals.
  + Calculate MSE, MAE, SNR, Cross Corr., Coherence
  + Time domain view (One-two portion) (separate plots, comparison plot)
  + Spectral view (separate plots, comparison plot)
  + Coherence view

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **22** | **11** | **5.5** | **2.75** |
| **Devinda** |  |  |  |  |
| **Kalana** |  |  |  |  |
| **Kulunu** |  |  |  |  |
| **Hirumi** |  |  |  |  |

**Applied filters:** 0.05 – 100 Hz BP , 50-60 Notch filter

**Sample rate:** 500Hz

**Scale:** 20mV

**Time Scale:** 20s

**Other settings:** Non

**Electrode configuration:** Lead II

**Position** : Resting

**Note** : Biopack ECG practical two use for

the experiment with some modifications

Figure Printed electrodes

**Experimental setup**

Figure Subject 1 at the experiment

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Figure Subject 2 at the experiment

**Results and discussion**

* A picture containing text, screenshot, font, algebra

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  Description automatically generatedFor D = 2.75 mm

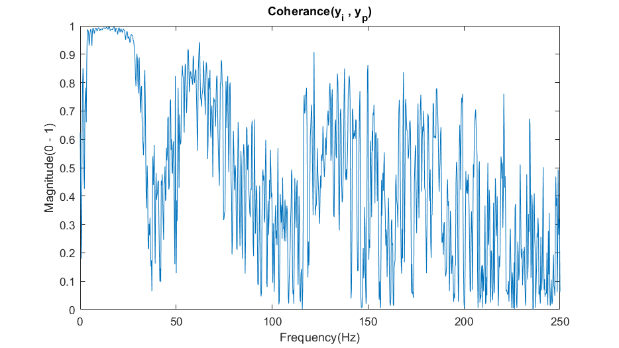
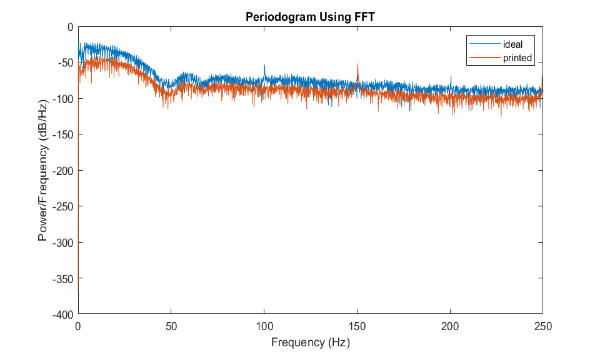
A picture containing text, diagram, line, plot

Description automatically generatedA picture containing text, plot, diagram, line

Description automatically generatedA picture containing text, diagram, plot, line

Description automatically generatedA picture containing text, screenshot, font, algebra

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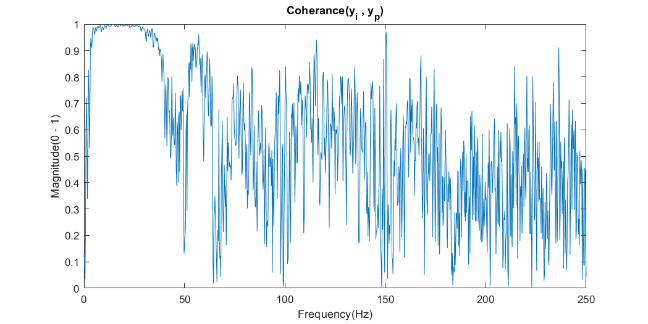


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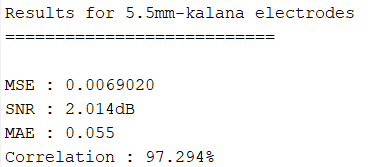
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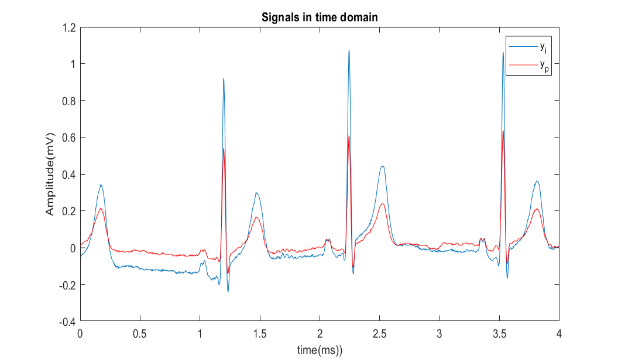
* For D = 5.5 mm

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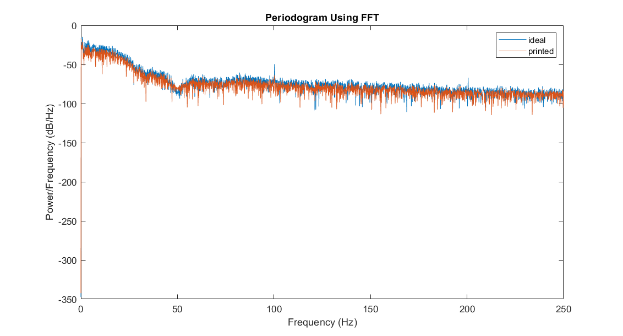
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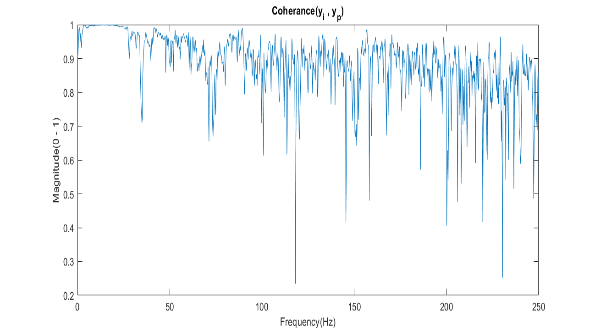


A picture containing text, screenshot, diagram, plot

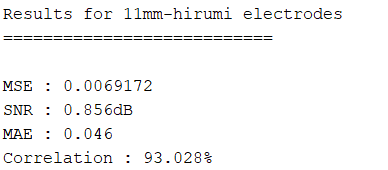
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Description automatically generatedA picture containing text, screenshot, plot, line

Description automatically generated

For D = 11mm ,

**Graphical user interface, text, application

Description automatically generated**

Chart, histogram

Description automatically generated**Chart, histogram

Description automatically generated**

Chart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, box and whisker chart

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A picture containing text, antenna

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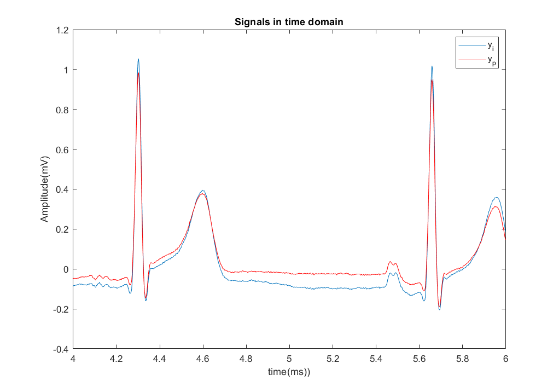
Text, letter

Description automatically generatedFor D = 22mm ,

Graphical user interface, text

Description automatically generatedGraphical user interface, text

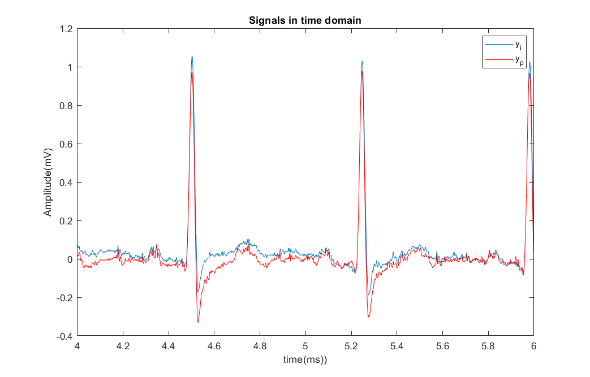
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Chart

Description automatically generatedChart

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Description automatically generatedChart, line chart

Description automatically generatedChart

Description automatically generatedChart, line chart, histogram

Description automatically generatedChart, line chart, histogram

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