



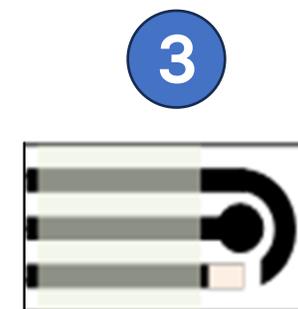
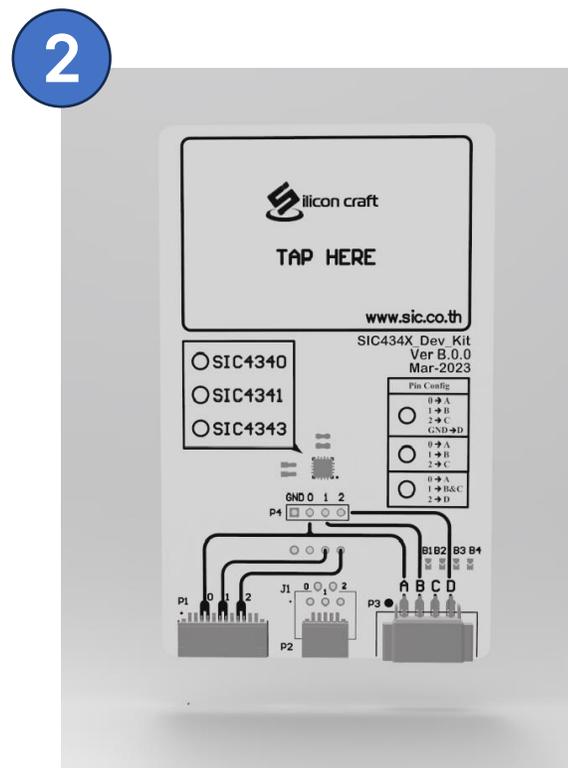
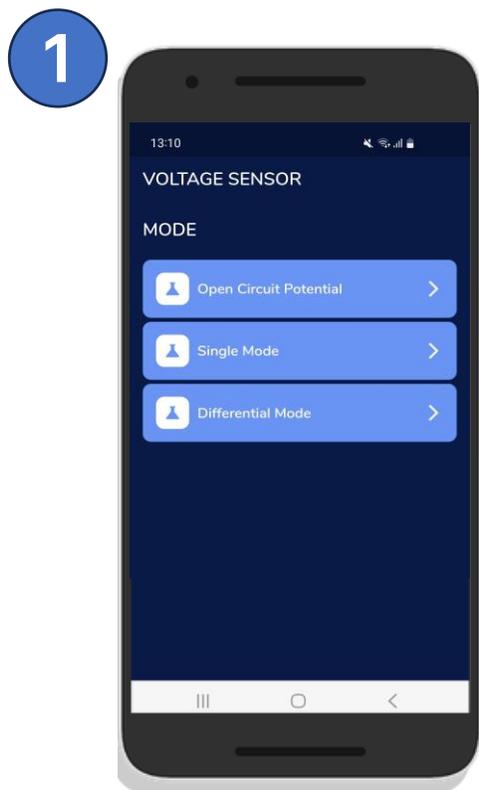
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# Instruments

1. NFC Smartphone with SIC4343 App
2. SIC4343 Development Kit
3. Sensor Electrode

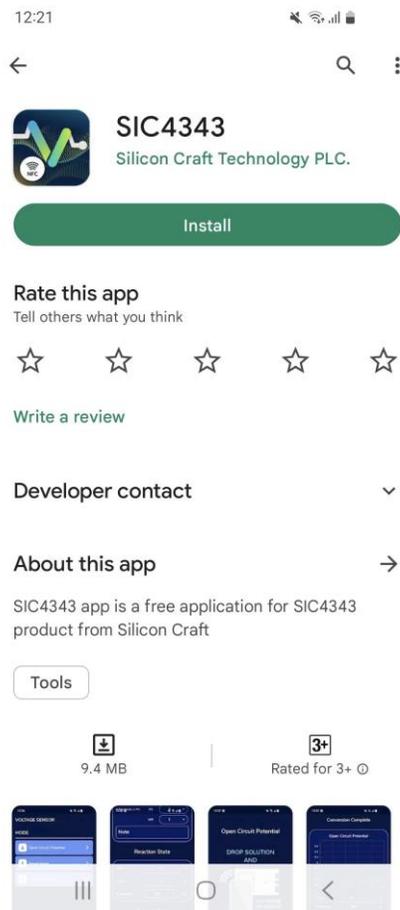


# SIC4343 Application



# Installation

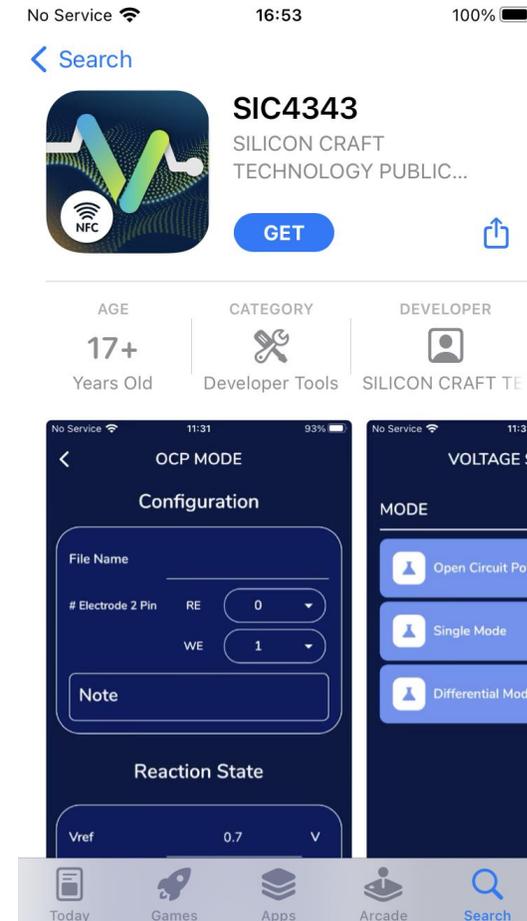
## Android



Google Play download link:  
[https://play.google.com/store/apps/details?id=th.co.sic.app.flutter.chemister\\_sic4343](https://play.google.com/store/apps/details?id=th.co.sic.app.flutter.chemister_sic4343)



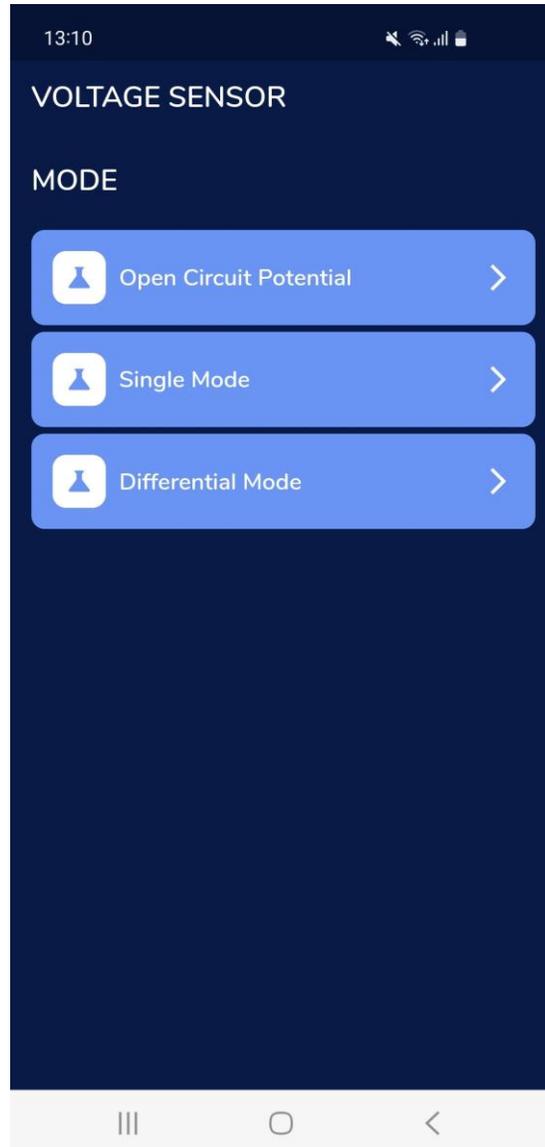
## iPhone



App Store download link:  
<https://apps.apple.com/th/app/sic4343/id6448913757>



# Main Menu



Select the measurement mode

- Open Circuit Potential (OCP)
- Single-end Mode
- Differential-end Mode

# Setting [OCP mode]

**Configuration**

File Name \_\_\_\_\_

# Electrode 2 Pin RE

WE

Note

Set Electrode

**Reaction State**

Vref  V

T Run  s

T Interval  ms

**Average Data**

Start Average  s

End Average  s

SAVE

Set reference voltage  $V_{RE}$

Set run time (iPhone maximum 15 s)

Set Interval time

Set average period of result

# Setting [Single-end mode]

13:14

← SINGLE MODE

### Configuration

File Name \_\_\_\_\_

Biasing Pins  2 channels

Vdc1 0

Vdc2 1

IN(+) 2

Note

Set Electrode  
1 or 2 channel biasing  
selectable

### Reaction State

Bias Vdc1 0.2 V

Bias Vdc2 0.3 V

T Run 20 s

T Interval 200 ms

Input Buffer  Disabled

### Average Data

Start Average 15 s

End Average 20 s

SAVE

Set bias voltages

Set run time (iPhone maximum 15 s)

Set Interval time

Set Enable/Disable Input Buffer

Set average period of result

# Setting [Differential-end mode]

13:15

← DIFFERENTIAL MODE

Configuration

File Name

Vdc 0

IN(-) 1

IN(+) 2

Note

Set Electrode

Reaction State

Bias Vdc 0.3 V

T Run 20 s

T Interval 200 ms

Input Buffer Disabled

Average Data

Start Average 15 s

End Average 20 s

SAVE

Set bias voltage

Set run time (iPhone maximum 15 s)

Set Interval time

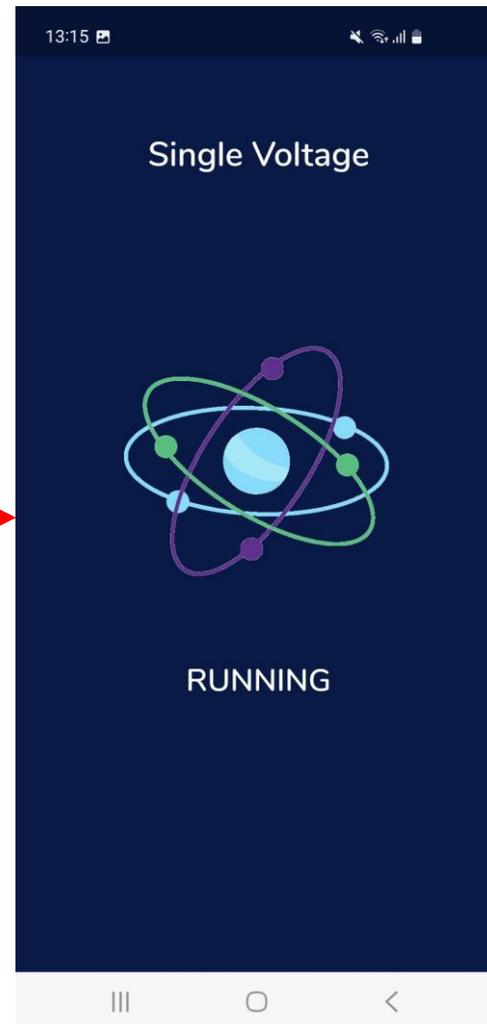
Set Enable/Disable Input Buffer

Set average period of result

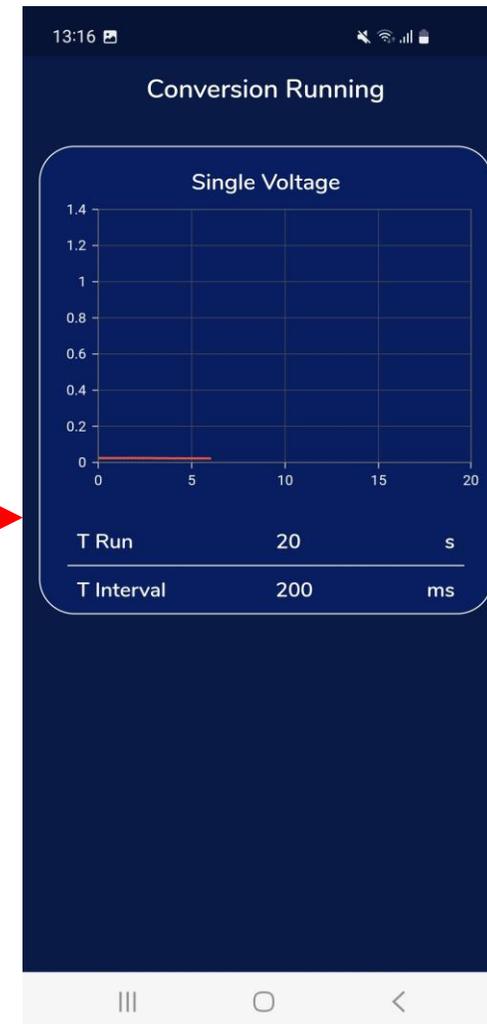
# Processing [Android]



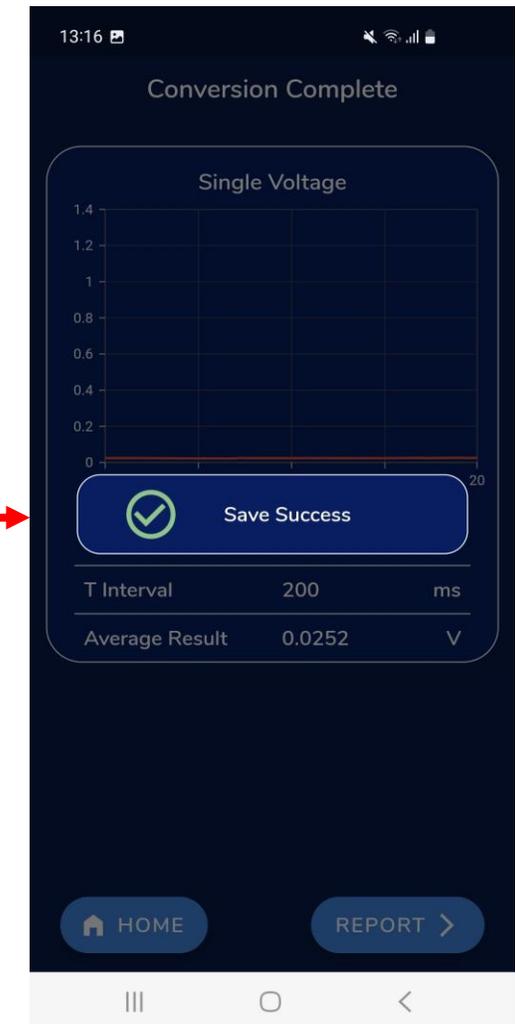
Drop Solution and Tap mobile on the board



Check Power after tap

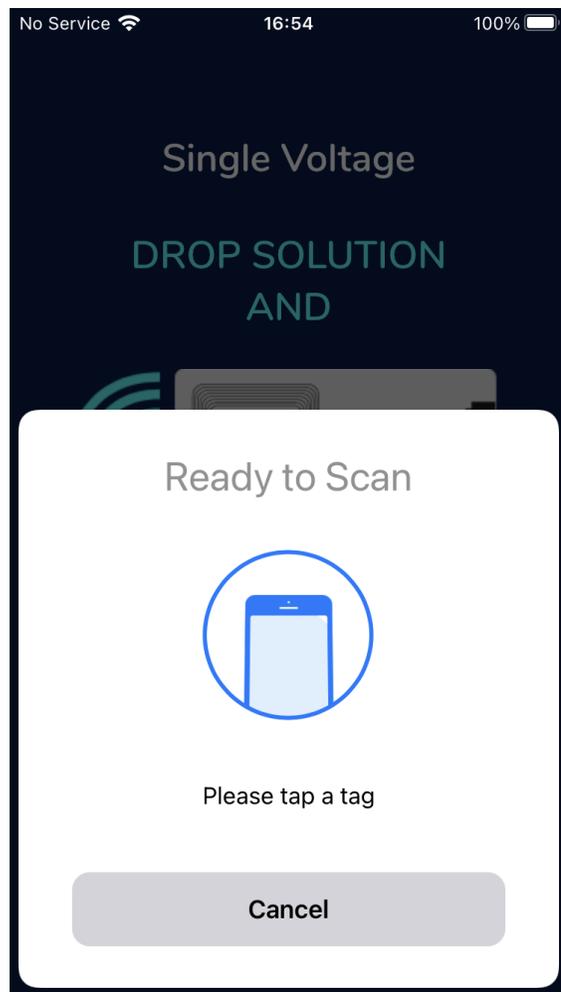


Wait for the measurement

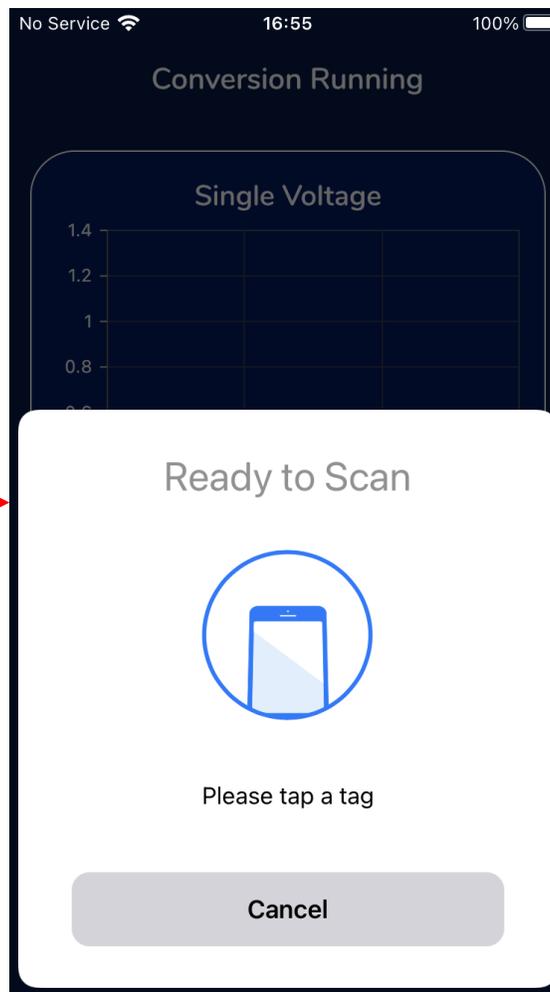


Measurement Completed  
Result will be saved automatically

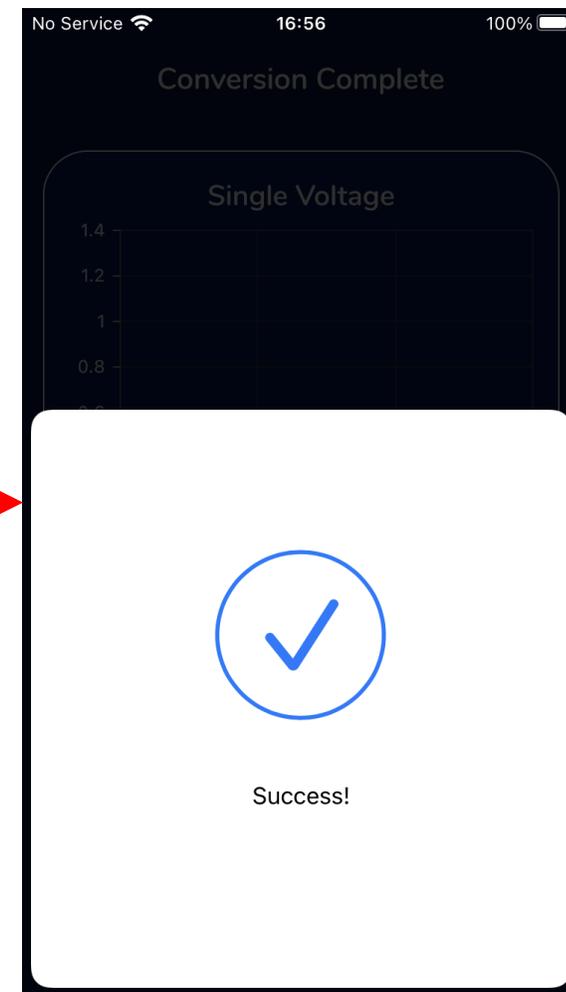
# Processing [iPhone]



Drop Solution and Tap mobile on the board

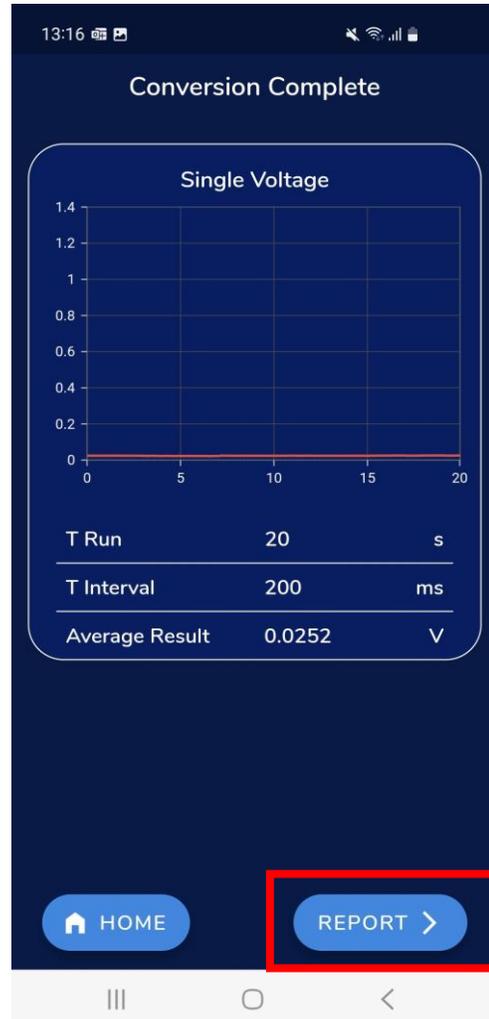


Wait for the measurement  
Do not press cancel



Measurement Completed  
Result will be saved  
automatically

# Result



Click 'REPORT' button

13:16

REPORT

Index	Time (s)	Volt (V)	ADCout
0	0.0	0.0244	460
1	0.2	0.0242	456
2	0.4	0.0242	458
3	0.6	0.0242	459
4	0.8	0.0244	460
5	1.0	0.0244	460
6	1.2	0.0244	461
7	1.4	0.0244	460
8	1.6	0.0242	459
9	1.8	0.0244	461
10	2.0	0.0242	457
11	2.2	0.0242	458
12	2.4	0.0242	458
13	2.6	0.0242	458
14	2.8	0.0242	457
15	3.0	0.0238	447
16	3.2	0.0236	440

SAVE

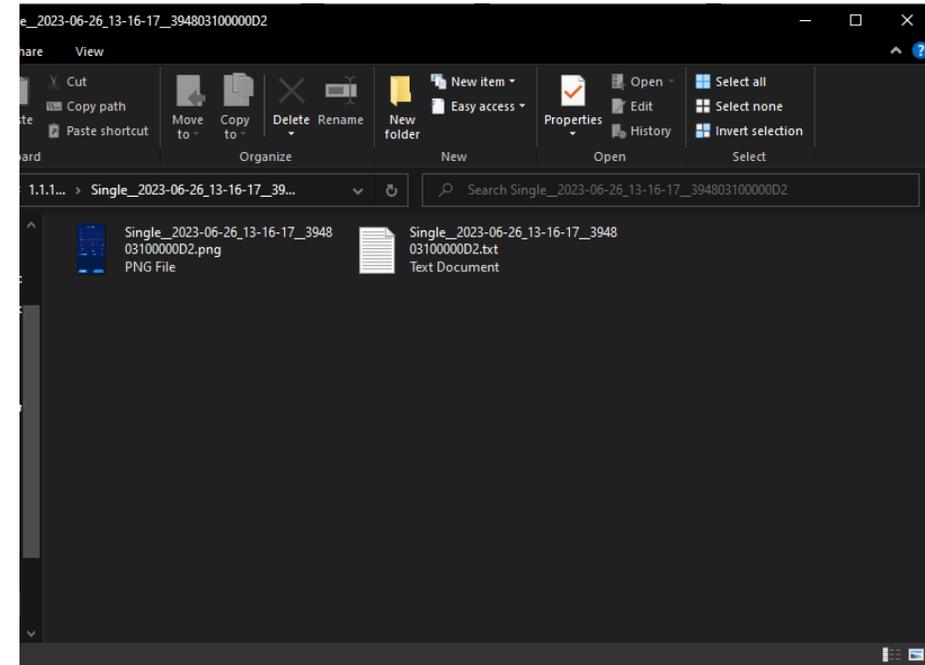
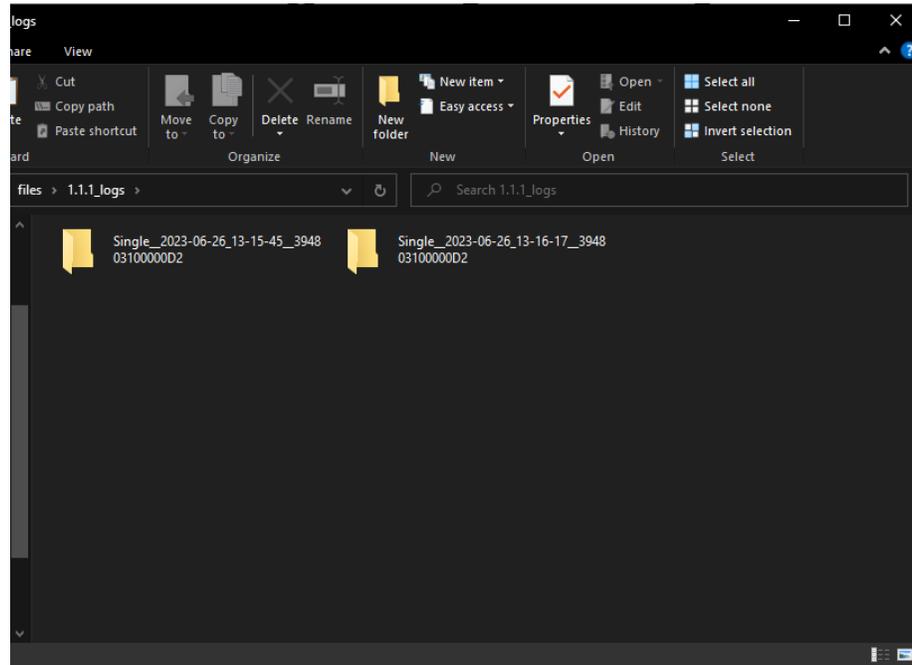
This screenshot shows the 'REPORT' screen. It displays a table with four columns: Index, Time (s), Volt (V), and ADCout. The table contains 17 rows of data. At the bottom right, there is a 'SAVE' button.

Show measurement Results

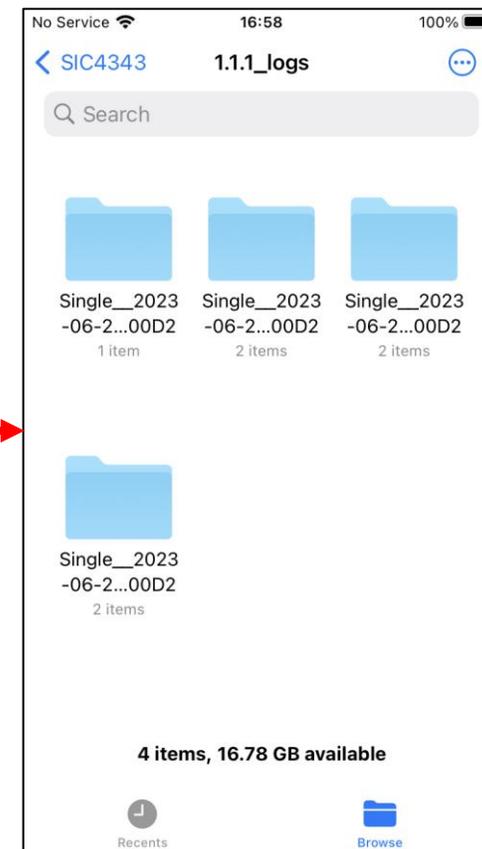
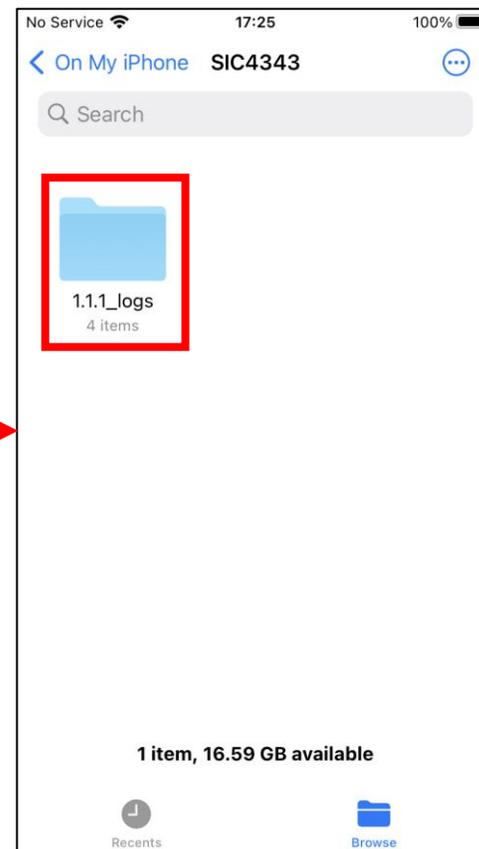
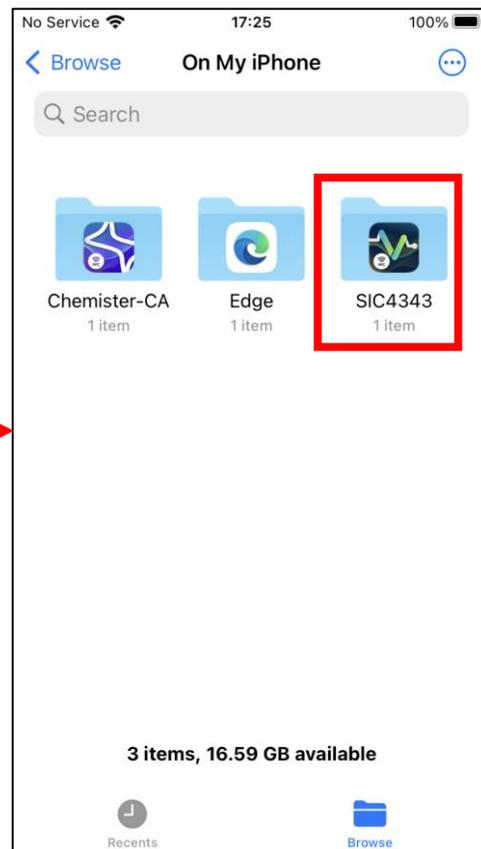
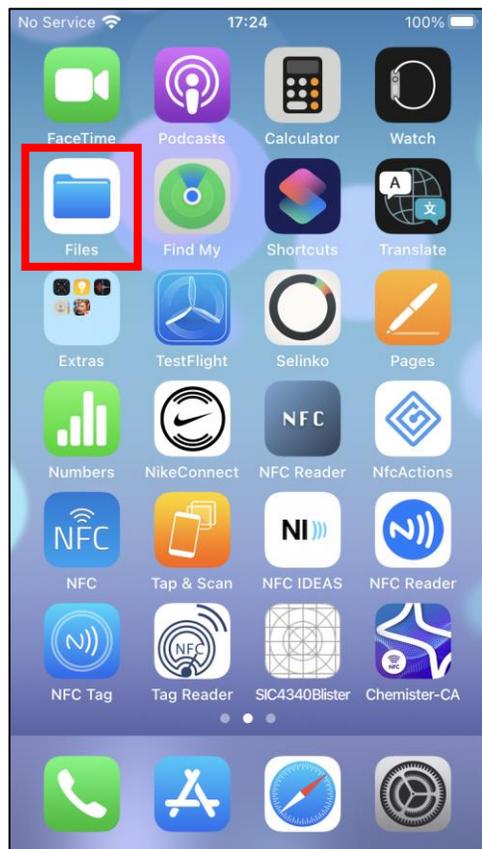
# Get log files [Android]

Connect phone with PC, the log files can be found in

'Internal storage\Android\data\th.co.sic.app.flutter.chemister\_sic4343\files\1.1.1\_logs'



# Get log files [iPhone]





# THANK YOU



 [www.sic.co.th](http://www.sic.co.th)

 [info@sic.co.th](mailto:info@sic.co.th)

 +66 2 589 9991

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