



License ID 459712
Client ID 001-nbk-02218
User 001-svc-ccva

Program version viva 2.1 - 60
2020-05-01 13:10:34 UTC+2

Method parameters

Method AB 439 Determination of Fe at Bi drop
Method saving date 2020-05-01 13:02:45 UTC+2
Method version 1
Method group AB 439
Method status original
Method saved by (full name)
Method saved by (short name) 001-svc-ccva

START

Main track

General

Workplace view

Current view on

Track view for live window

Live display 1 Main track

Live display 2 Main track

Electrode check off

Application note

Measuring solution: 10 mL sample 1 mL supporting electrolyte

Sample data variables

Name	Type	Assignment	Fixed value	Comment	Monitoring
ID1	Text	ID1		Sample identification 1	off
ID2	Text	ID2		Sample identification 2	off
ID3	Text	ID3		Sample identification 3	off
Sample type	Text	Sample type		Sample type	off
Sample amount	Number	Sample amount		Sample amount	off
Sample amount unit	Text	Sample amount unit		Sample amount unit	off

Name ID1
Type Text
Assignment on. ID1
Fixed value off.
Check at start on
Comment Sample identification 1

Name ID2
Type Text
Assignment on. ID2
Fixed value off.
Check at start on
Comment Sample identification 2



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Name **ID3**
Type Text
Assignment on. ID3
Fixed value off.
Check at start on
Comment Sample identification 3

Name **Sample type**
Type Text
Assignment on. Sample type
Fixed value off.
Check at start on
Comment Sample type

Name **Sample amount unit**
Type Text
Assignment on. Sample amount unit
Fixed value off.
Check at start on
Comment Sample amount unit

Name **Sample amount**
Type Number
Assignment on. Sample amount
Fixed value off.
Check at start on
Comment Sample amount
Variable monitoring off
Lower limit
Upper limit
Message
Display message on
Record message on
Message by e-mail off
 E-mail template
 Subject Message from viva - method 'New method 3' - command 'Main track'
Acoustic signal off
Action off
Cancel determination on
Cancel determination and series off

Command comment

AB 439/1: Determination of iron at Bi drop

CALL **Call sample**



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Call text	Track name	Sample type	Condition
Call sample	Sample	off Sample	off

CALL

Call additions

Call text	Track name	Sample type	Condition
Call additions	Standard addition	off Sample	off

VA TRACK VA track

Return immediately off

LOOP

Replications

Stop criteria

Max. run number on
Max. run number 2
Maximum run time off
Signal assessment for DT off
Condition off

DP

DP

General/Hardware

Device

Device name 884_1
Device type 884 Professional VA

Sensors/Electrodes

Working electrode RDE
Sensor type RDE/SSE
Reference electrode Reference electrode
Auxiliary electrode Auxiliary electrode
Electrode check off

Stirrer

Stirring rate 2000 min⁻¹
Hydrodynamic measurement off

Pretreatment

Stirring time 5 s

Cyclovoltammetric pretreatment

Start potential 0.2 V
Vertex potential -1 V
Sweep rate 1 V/s
Cycles 2
Duration 4.80 s

Potentiostatic pretreatment

Potential 1 -2 V
Waiting time 1 5 s
Potential 2 off V



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Waiting time 2 0.0 s
Potential 3 off V
Waiting time 3 0.0 s
Potential 4 off V
Waiting time 4 0.0 s
Potential 5 off V
Waiting time 5 0.0 s
Equilibration time 5 s

Sweep

Start potential -0.75 V
End potential -1.25 V
Potential step 0.006 V
Potential step time 0.1 s
Sweep rate 0.060 V/s
Pulse amplitude 0.05 V
Pulse time 0.04 s
Measuring time 0.02 s
Sweep duration 8.33 s

Post-treatment

Cleaning

Cleaning potential off V
Cleaning time 0.0 s

Standby potential

Standby potential off V

Potentiostat

Current measuring range

Highest range 2 mA
Lowest range 200 μ A
Automatically select optimum current measuring range on

TRACK

Sample

Return immediately off
Delete old data off

ADD SAMPLE

Add sample

Addition

Add manually on
Display standard message on
Display message defined by the user off
Already added off
Add with dosing device off

ADD AUX

Add electrolyte

Auxiliary solution

Solution Electrolyte
Volume 1 mL
Include volume in calculation on



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Addition

Add manually on
Display standard message on
Display message defined by the user off
Already added off
Add with dosing device off

STIR & PURGE

Initial purge

Device

Device name 884_1
Device type 884 Professional VA

Stir

Stirring rate 2000 min⁻¹
Switch on on
Switch off off
Duration off

Purge

Switch on off
Switch off off
Duration on
Time 300 s

CALL VA

Measure sample

Call text Measure sample
Track name VA track
Condition off

TRACK

Standard addition

Return immediately off
Delete old data off

LOOP

Variations

Stop criteria

Max. run number on
Max. run number 2
Maximum run time off
Signal assessment for DT off
Condition off

ADD STD

Add standard

Standard

Solution Std

Addition increments

Number 1
Addition volume 1 0.05 mL

Addition

Add manually on
Display standard message on



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Display message defined by the user off
Already added off
Add with dosing device off

**STIR &
PURGE**

Addition purge

Device

Device name 884_1
Device type 884 Professional VA

Stir

Stirring rate 2000 min⁻¹
Switch on on
Switch off off
Duration off

Purge

Switch on off
Switch off off
Duration on
Time 5 s

CALL VA

Measure additions

Call text Measure additions
Track name VA track
Condition off

TRACK

Shut off

Return immediately off
Delete old data off

**STIR &
PURGE**

Stir + Purge OFF

Device

Device name 884_1
Device type 884 Professional VA

Stir

Stirring rate 2000 min⁻¹
Switch on off
Switch off on
Duration off

Purge

Switch on off
Switch off on
Duration off

**MAIN
VALVE**

Main valve OFF

Device

Device name 884_1
Device type 884 Professional VA

Action

Open off



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Close on

EXIT **Exit track**

CALL **Exit shut off**

Call text	Track name	Sample type		Condition
Exit shut off	Shut off	off	Sample	off

ERROR **Error track**

CALL **Error shut off**

Call text	Track name	Sample type		Condition
Error shut off	Shut off	off	Sample	off