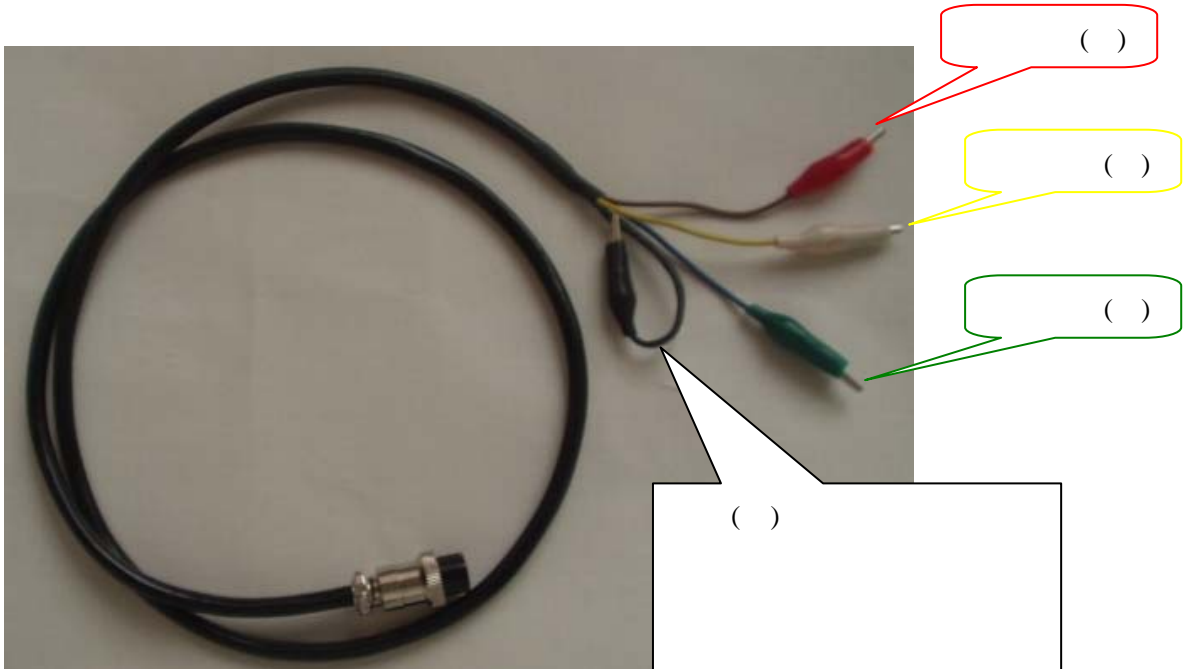


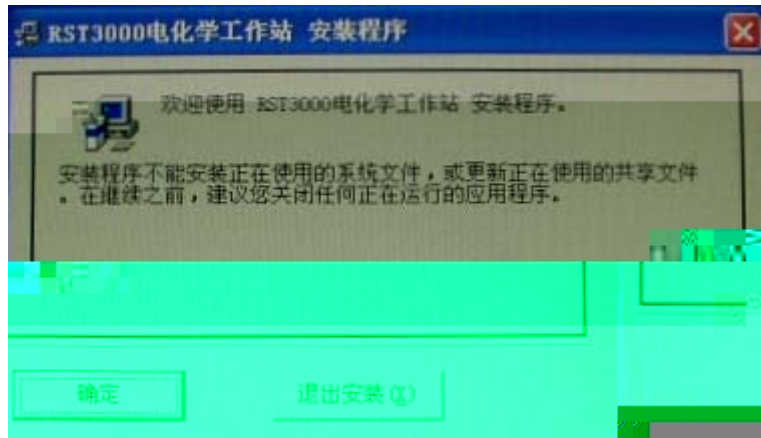
RS-232



### RS-232



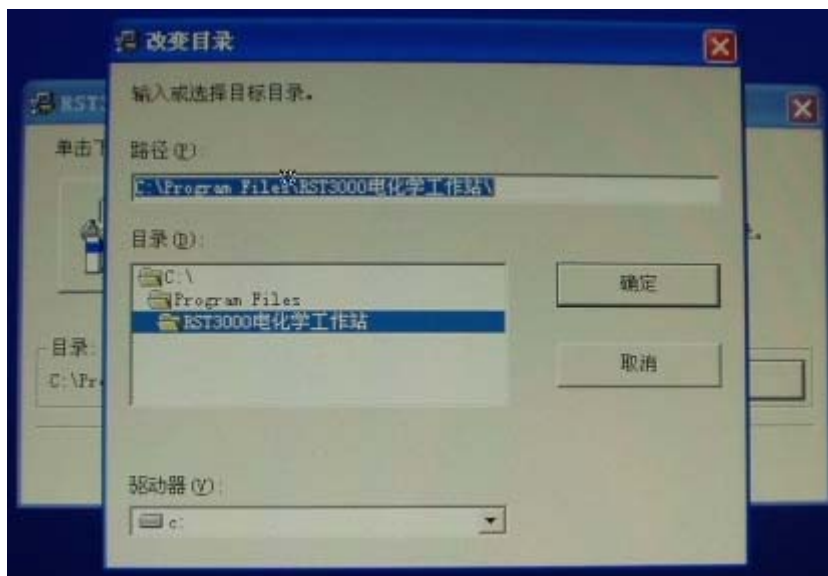
setup.exe RST3000



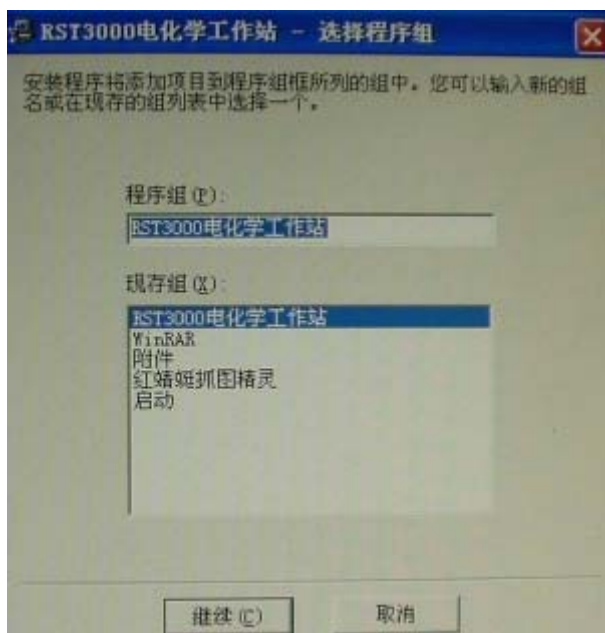
" "



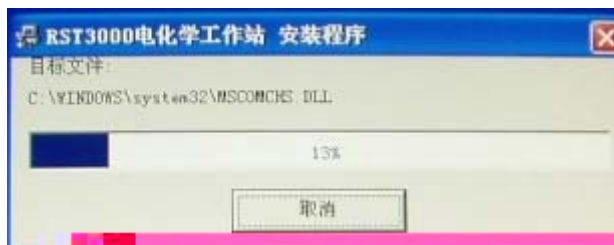
" C:\Program Files\RST3000 \"  
" " " " "



“ ” “ ”



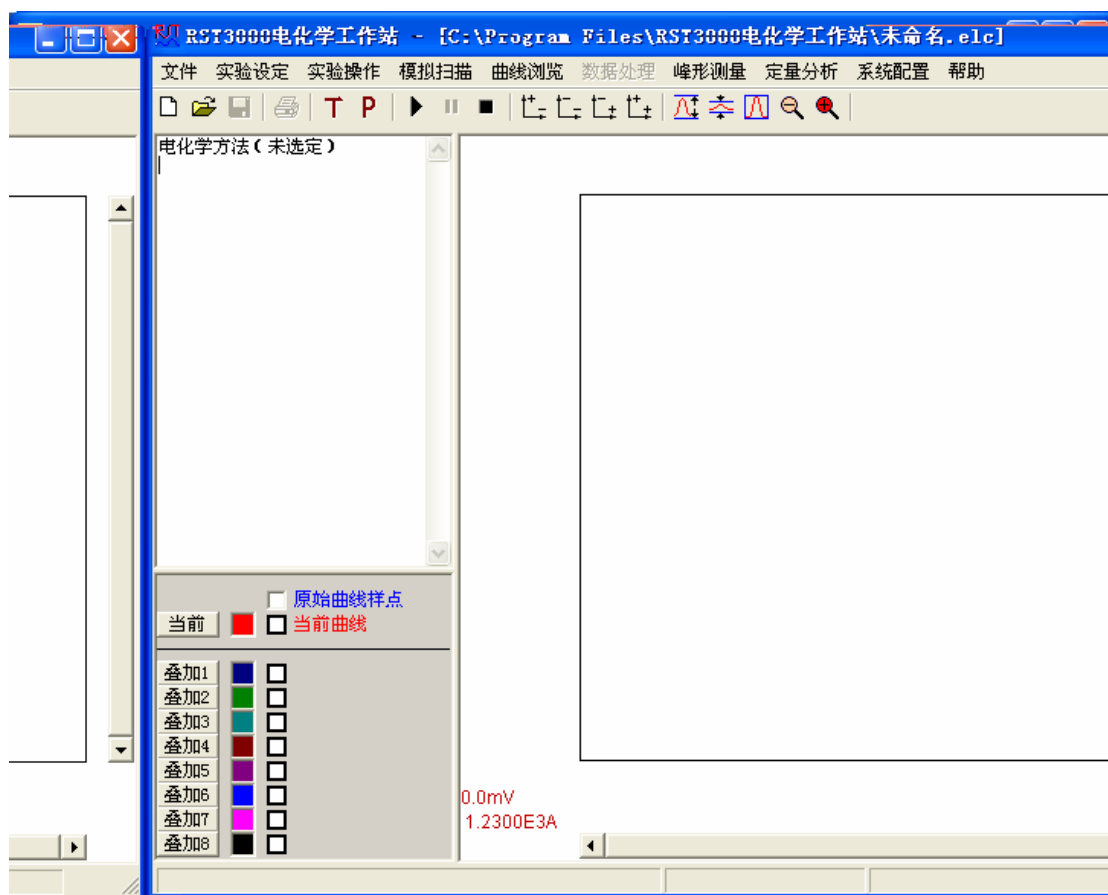
“ ”



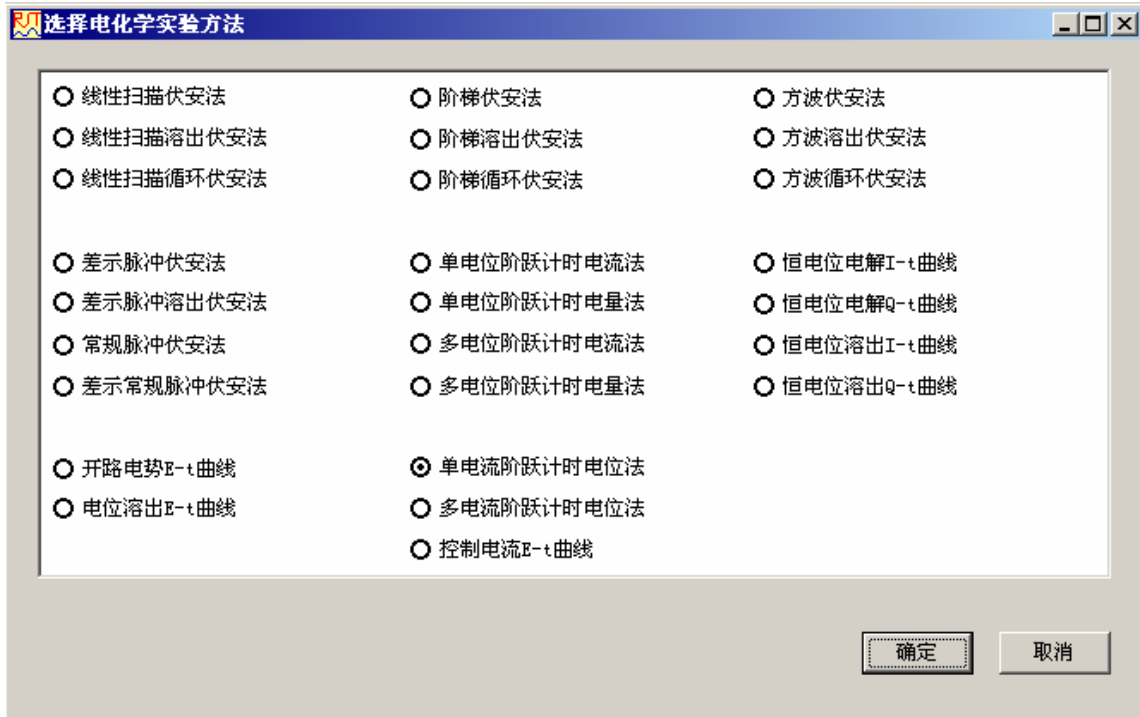
“ ”



- 1 RST3000
- 2 " "
- 3 RST3000 .exe



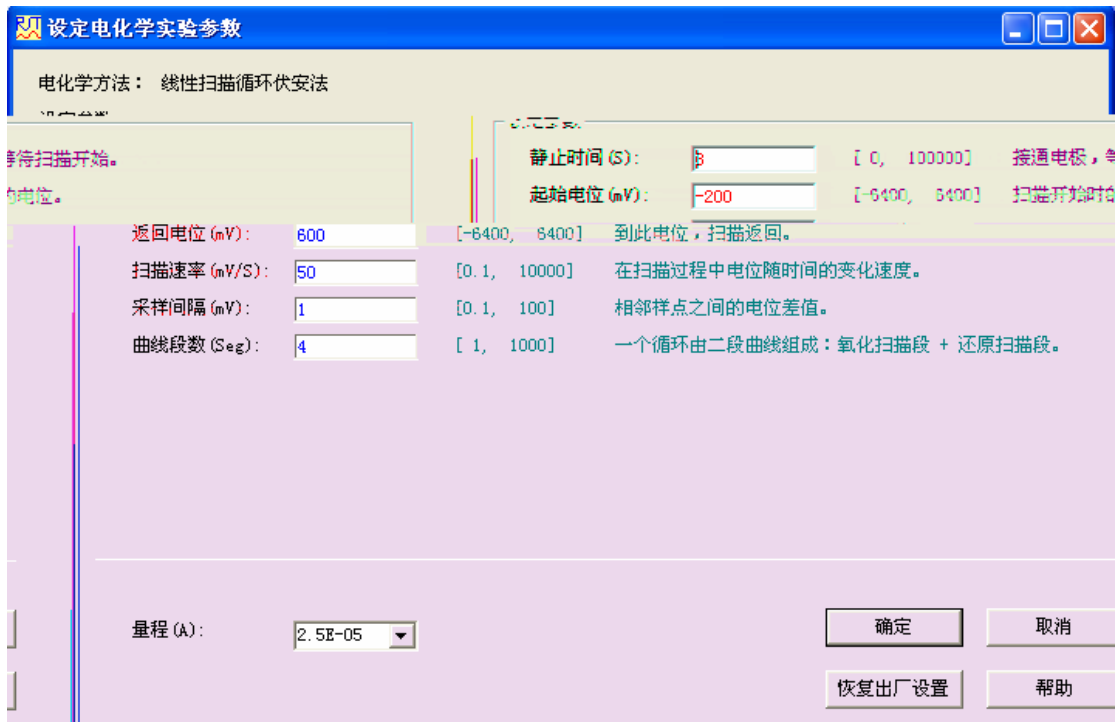
- 4 " " " " " T "
- " 3100



1

5

" " " " " P"





6

" ▶ "  
i-t

" "

" " " "  
" "

i-E

7

1

4

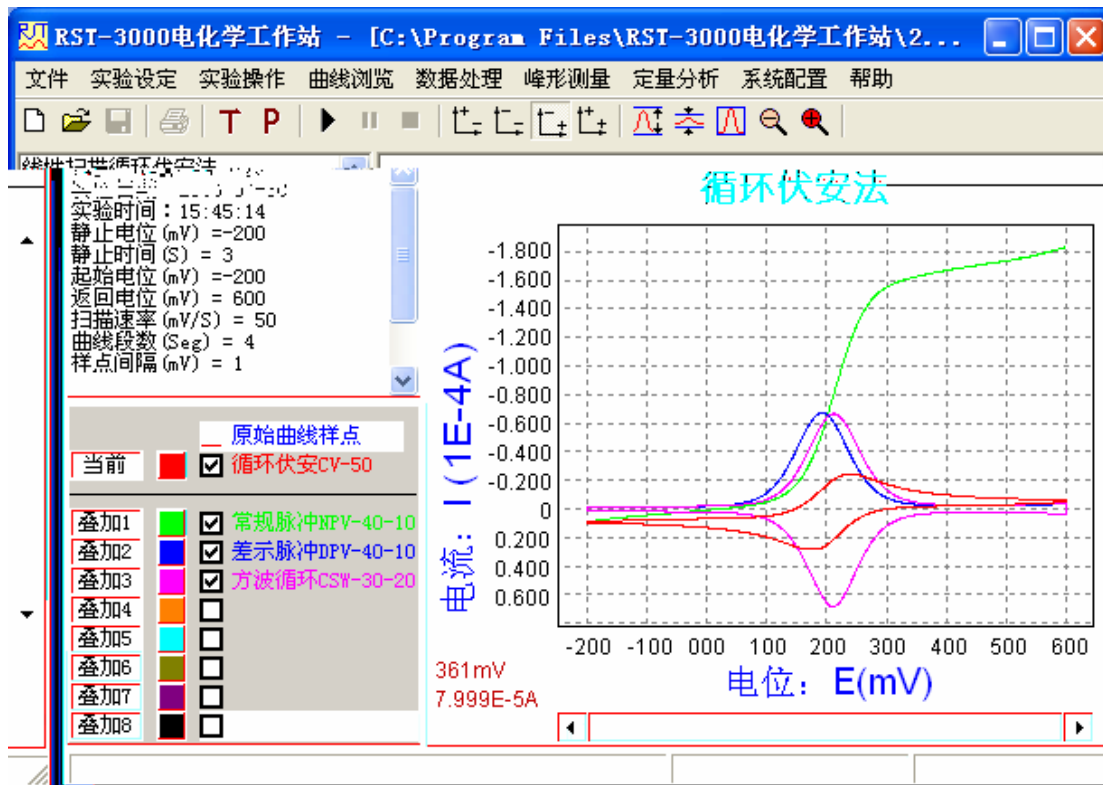
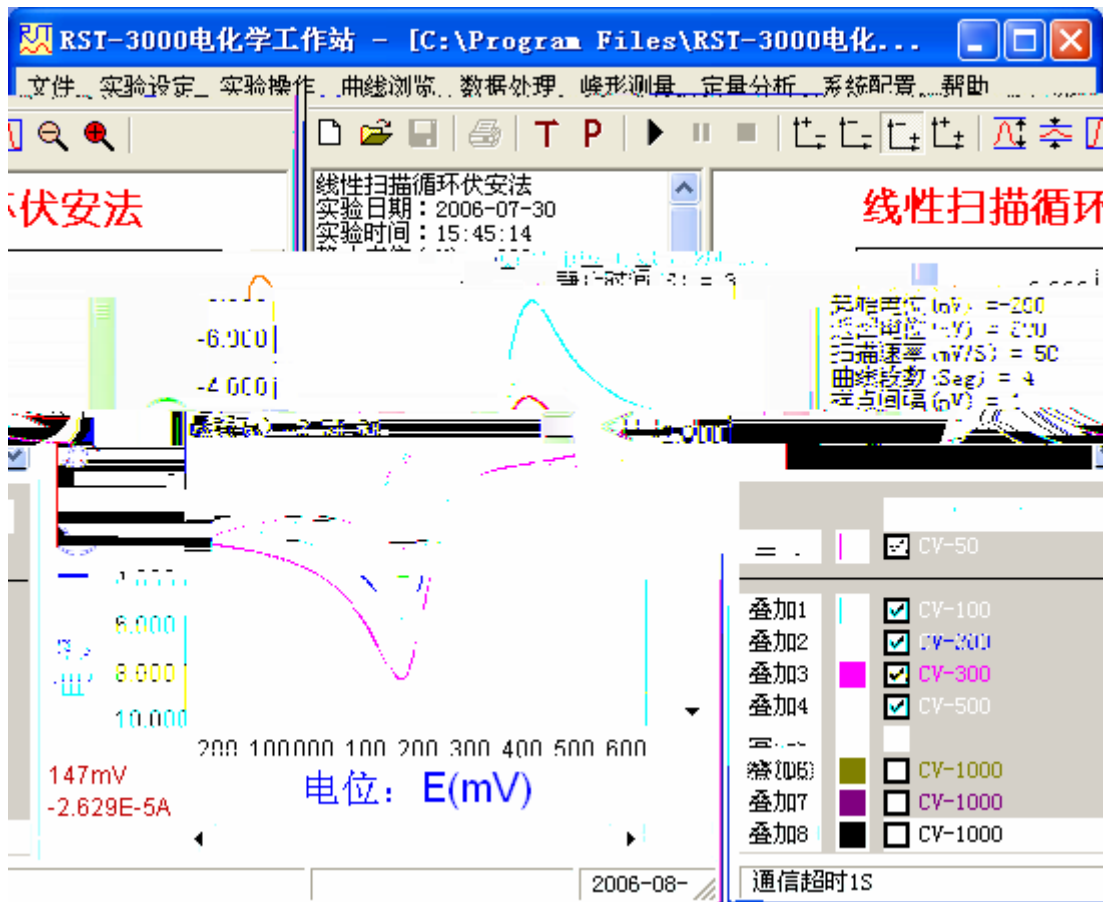
" "

" 2"

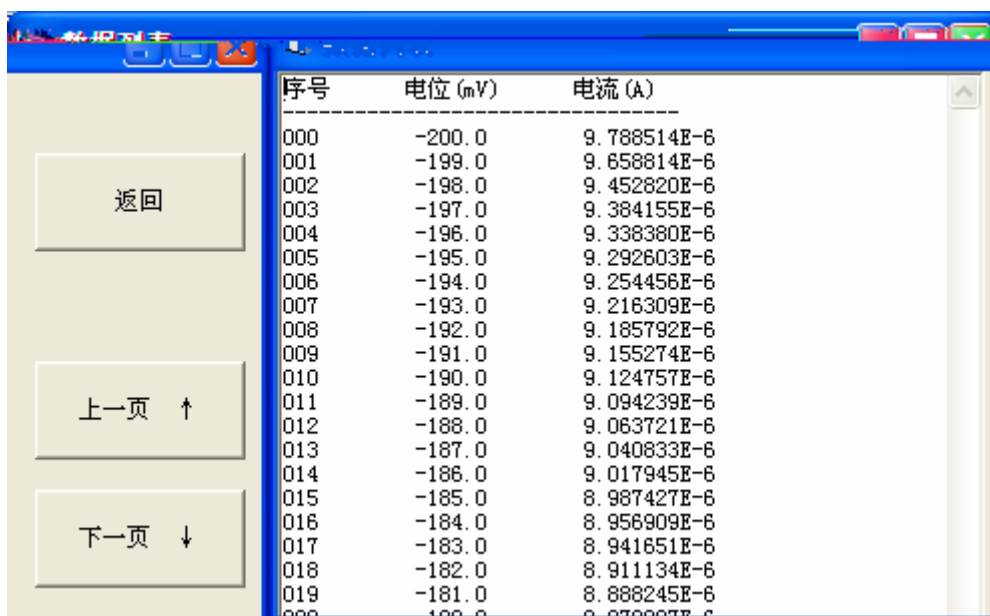
" "

" 2"

当前	<input checked="" type="checkbox"/>	原始曲线样点
	<input checked="" type="checkbox"/>	循环伏安CV-50
叠加1	<input type="checkbox"/>	常规脉冲NPV-40-10
叠加2	<input checked="" type="checkbox"/>	差示脉冲DPV-40-10
叠加3	<input checked="" type="checkbox"/>	方波循环CSW-30-20
叠加4	<input type="checkbox"/>	
叠加5	<input type="checkbox"/>	
叠加6	<input checked="" type="checkbox"/>	
叠加7	<input type="checkbox"/>	
叠加8	<input type="checkbox"/>	



2



序号	电位 (mV)	电流 (A)
000	-200.0	9.788514E-6
001	-199.0	9.658814E-6
002	-198.0	9.452820E-6
003	-197.0	9.384155E-6
004	-196.0	9.338380E-6
005	-195.0	9.292603E-6
006	-194.0	9.254456E-6
007	-193.0	9.216309E-6
008	-192.0	9.185792E-6
009	-191.0	9.155274E-6
010	-190.0	9.124757E-6
011	-189.0	9.094239E-6
012	-188.0	9.063721E-6
013	-187.0	9.040833E-6
014	-186.0	9.017945E-6
015	-185.0	8.987427E-6
016	-184.0	8.956909E-6
017	-183.0	8.941651E-6
018	-182.0	8.911134E-6
019	-181.0	8.88245E-6

5



选取曲线

1     2

3     4

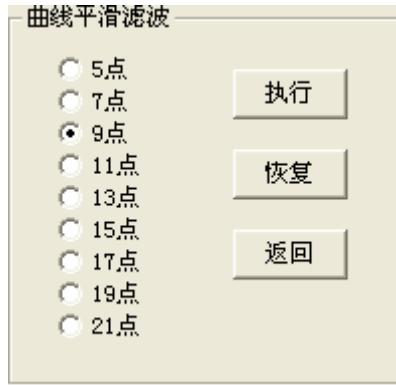
5     6

7     8

9, 10, 11, ...

确定

放弃



" "

" "

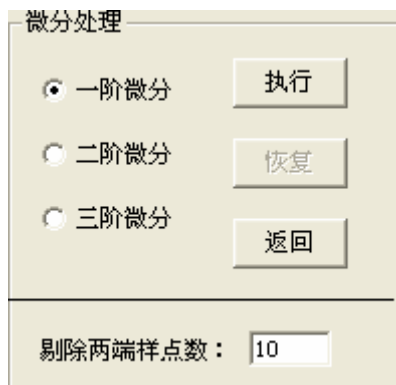
" "

" "

" "

" "

" " " "



" "



" " " "

" " " "

$E_p$   $i_p$   $A_{hp}$

" "

$E_p$   $i_p$   $A_p$

S

$E_w$   $i_w$

8

10

9

标准加入法计算

加标前被测物

体积  $V_x$ : .01

峰高  $h_x$ : .00002

浓度  $C_x$ : 1.538462E-04

标准样品

体积  $V_s$ : .001

浓度  $C_s$ : .001

加标后被测物

体积  $V_m$ : .011

峰高  $h_m$ : .00003

浓度  $C_m$ : 2.307692E-04

附：计算公式

$$V_m = V_x + V_s$$

$$C_x = h_x * V_s * C_s / (h_m * V_m - h_x * V_x)$$

$$C_m = (V_x * C_x + V_s * C_s) / V_m$$

请在白色框中输入参数，然后按<计算>

察看例子    计算结果    返回

清除数据    计算成功!

标准曲线法计算

标准曲线

数据点	浓度 C	峰高 h
1	0.000000E+00	1.000000E-06
2	0.000000E+00	0.000000E+00
3	0.000000E-03	2.222222E-05
4	0.000000E-03	3.333333E-05
5	0.000000E-03	5.555555E-05
6	0.000000E-03	8.888888E-05

子    填写数据    拟合曲线    察看例

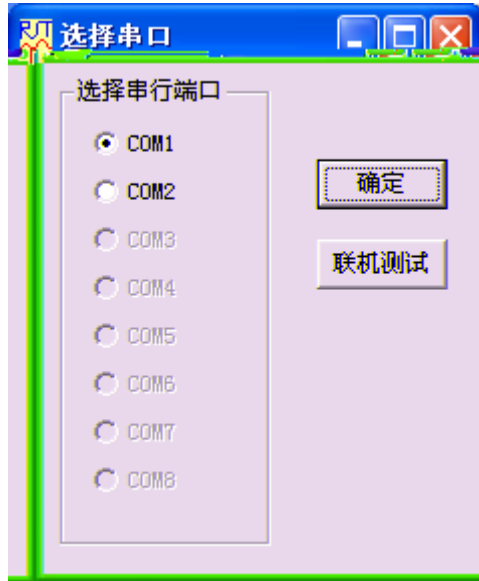
清除    打开文件    清除数据

$k = 1.103718E-02$     截距:  $b = 4.007809E-07$     相关系数:  $r = .9999425$

峰高: 5.8780E-05    请输入峰高数据，然后按<计算>

浓度: 0.000000E+00

“ ”  
“ ”  
r “ ” k b  
“ ”



11

" "

elc

elc

" "

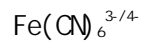
elc

(bmp)

txt

RST3000





59mV

RST3000 ;

 $1.00 \times 10^{-2} \text{ mol/L } \text{K}_3\text{Fe(CN)}_6$        $2.0 \text{ mol/L } \text{KNO}_3$ 
**1**

5 50mL       $\text{KNO}_3$        $\text{K}_3\text{Fe(CN)}_6$        $\text{KNO}_3$   
 0.2 mol/L  $\text{K}_3\text{Fe(CN)}_6$        $1.00 \times 10^{-4}$     $2.00 \times 10^{-4}$     $5.00 \times 10^{-4}$     $8.0 \times 10^{-4}$   
 $1.00 \times 10^{-3} \text{ mol/L}$

**2** $\text{Al}_2\text{O}_3$ , 200 3001:1      1:1HNO<sub>3</sub>**3**  $\text{K}_3\text{Fe(CN)}_6$ 
 $5.00 \times 10^{-4} \text{ mol/L } \text{K}_3\text{Fe(CN)}_6^3$  (       $0.20 \text{ mol/L } \text{KNO}_3$ )
Nb O<sub>2</sub>

50mV/s      -200 +600mV

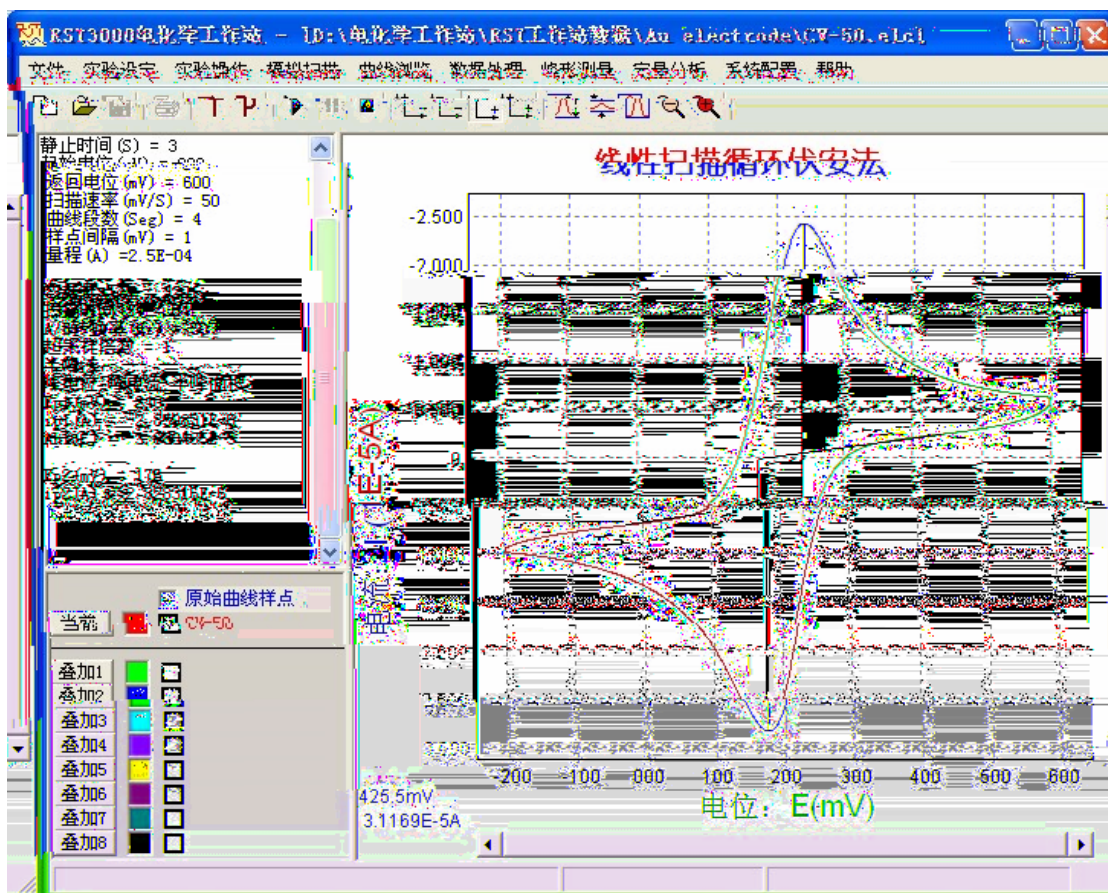
50 100 200 300 500mV/s      -200 +600mV

**4.** $\text{K}_3\text{Fe(CN)}_6$ 

50mV/s      -200 +600mV

 $1.00 \times 10^{-4}$ 
 $2.00 \times 10^{-4}$     $5.00 \times 10^{-4}$     $8.0 \times 10^{-4}$     $1.00 \times 10^{-3} \text{ mol/L}$  (       $0.20 \text{ mol/L } \text{KNO}_3$ )
)  $\text{Fe(CN)}_6^3$

1.  $K_3Fe(CN)_6$  ( 0.20mol /L  $KNO_3$ )



$E_{p1}=240mV$        $E_{p2}=176mV$        $i_{p2}=2.83 \cdot 10^{-5}A$   
 $i_{p1}/i_{p2}=1$        $i_{p1}=2.86 \cdot 10^{-5}A$        $64mV$   
 $Fe(CN)_6^{3-/4-}$

2. 50 100 200 300 500mV/s

$i_p$        $i_p^{1/2}$        $i_p$

3.  $Fe(CN)_6^{3-}$

$Fe(CN)_6^{3-}$

