

Supplementary Reference Data

(1) First reference data

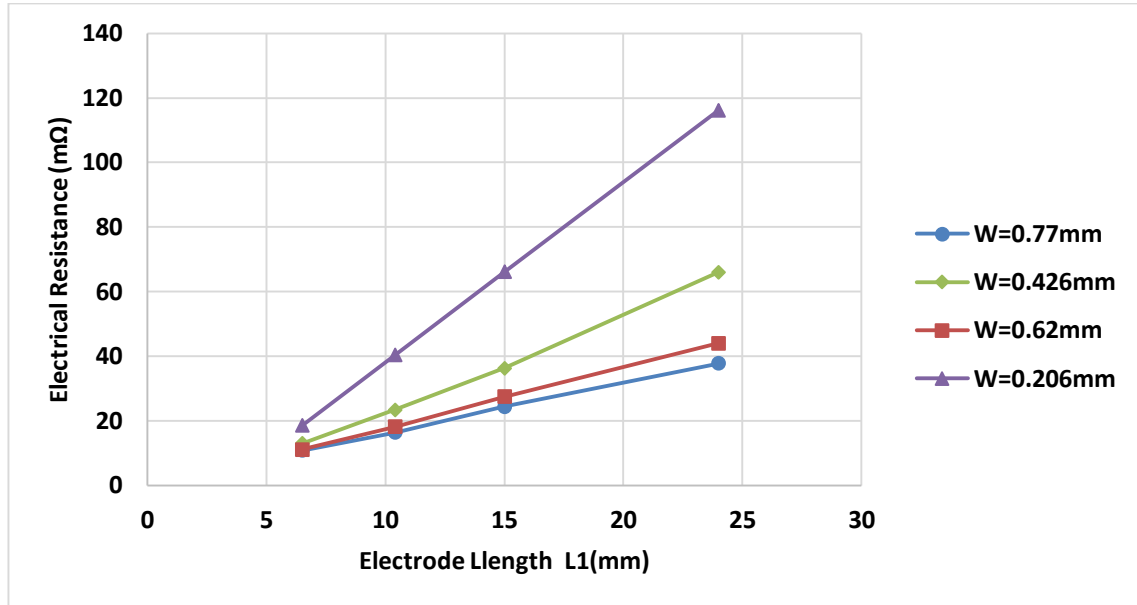


Fig.5 shows the relationship between the average electrical resistance and reference electrode length for 4 different reference electrode widths.

This Fig.5 in the submitted paper was obtained from the following Tables A1 to A4 and Figures B1 to B4.

Table A1 shows the electrical resistance for different reference electrode length of the 24mm, 15mm, 10.4mm, 6.5mm, when the electrode width W is 0.77mm. (Unit: :mΩ)

Test Strip No.	Electrode length L1= 6.5mm	Electrode length L1= 10.4mm	Electrode length L1= 15mm	Electrode length L1= 24mm
1	12.23	17.76	25.15	36.13
2	12.32	17.11	26.23	36.9
3	11.85	17	25.27	37.05
4	12.56	16.85	26.23	37.96
5	13.32	16.85	25.94	37.42
6	12.83	17.4	26.83	37.3
7	11.3	16.7	27.35	37.45
8	11.1	17.4	25.42	36.92
9	10.37	16.74	24.7	37.13
10	12.8	17.64	24.63	36.63

11	9.73	16.53	23.8	38.48
12	9.37	15.3	24	37.6
13	10	15.97	24.31	38.44
14	10.5	16.05	23.66	38
15	10.24	15.48	22.77	38.42
16	10.45	16.25	23.84	38.33
17	9.45	16.51	23.93	37.77
18	9.81	15.39	23.96	37.97
19	9.83	15.71	24.08	37.66
20	9.48	15.24	23.29	37.21
21	10	16.09	23.88	37.72
22	10.49	15	23.92	38.89
23	10.39	14.95	23.94	37.75
24	10.95	15.28	23.11	38.28
25	10.72	16.31	22.88	36.92
26	9.76	15.97	23.1	38.1
27	10.72	16.67	24.3	38.42
28	9.96	17.2	23.91	38.09
29	10.78	15.79	23.53	38.48
30	10.85	17.11	23.85	38.51
Average	10.81	16.34	24.39	37.73
STDEV	1.12	0.81	1.17	0.67
CV(%)	10.33	4.98	4.79	1.77

Summarizing the data in Table A1, we can obtain the data shown in Fig.B1.

N(Test Number)	120
Slope	1.5541
Y-intercept	0.6366
Correlation Coefficient (R^2)	0.9902

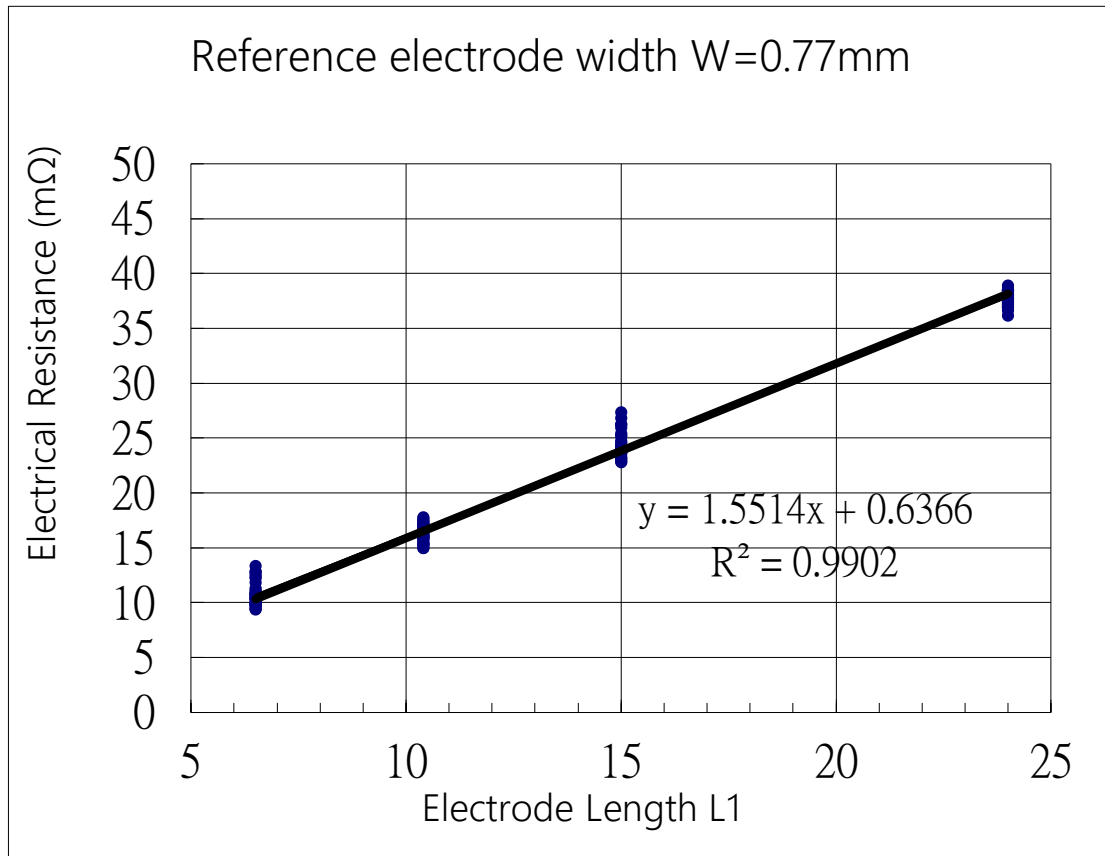


Fig.B1 shows the relationship between electrical resistance of the electrode and electrode length when the reference electrode width is 0.77mm.

Table A2 shows the electrical resistance for different reference electrode length of the 24mm, 15mm, 10.4mm, 6.5mm, when the electrode width is 0.62mm. (Unit: :mΩ)

Test Strip No.	Electrode length L1= 6.5mm	Electrode length L1= 10.4mm	Electrode length L1= 15mm	Electrode length L1= 24mm
1	11.64	18.46	27.59	45.12
2	12.45	18.89	27.04	45
3	12.23	19	27.75	44.54
4	11.55	19.2	28.42	44.92
5	10.86	19.13	29.35	44.79
6	12.15	18.54	28.07	43.93
7	11.85	18.41	27.67	44.31
8	11.67	18.58	27.33	43.91
9	11.42	18.64	26.95	44.53
10	10.39	18.08	26.85	44.49

11	11.42	19.06	27.83	44.31
12	11.41	18.75	28.07	42.87
13	11.5	17.68	27.37	44.56
14	11.08	17.79	27.47	44.04
15	11.52	17.24	27.94	44.45
16	11.08	17.82	28.24	43.53
17	11.95	17.06	27.91	44.21
18	10.8	17.63	27.28	43.61
19	10.57	18	26.78	43.31
20	10.42	17.08	28	42.9
21	10.38	18.92	27.16	44.65
22	10.63	18.15	27.05	43.31
23	10.59	18.12	27.12	43.95
24	10.11	16.7	26.46	43.88
25	10.41	17.86	26.9	42.85
26	10.2	19.04	27.6	44.42
27	11.3	18.52	26.29	43.65
28	10.22	16.95	27.08	43.35
29	10.5	16.72	27.41	43.61
30	9.82	17.91	27.02	42.69
Average	11.07	18.13	27.467	43.99
STDEV	0.70	0.75	0.63	0.68
CV(%)	6.36	4.15	2.30	1.55

Summarizing the data in Table A2, we can obtain the data shown in Fig.B2.

N(Test Number)	120
Slope	1.8893
Y-intercept	-1.2389
Correlation Coefficient (R^2)	0.9841

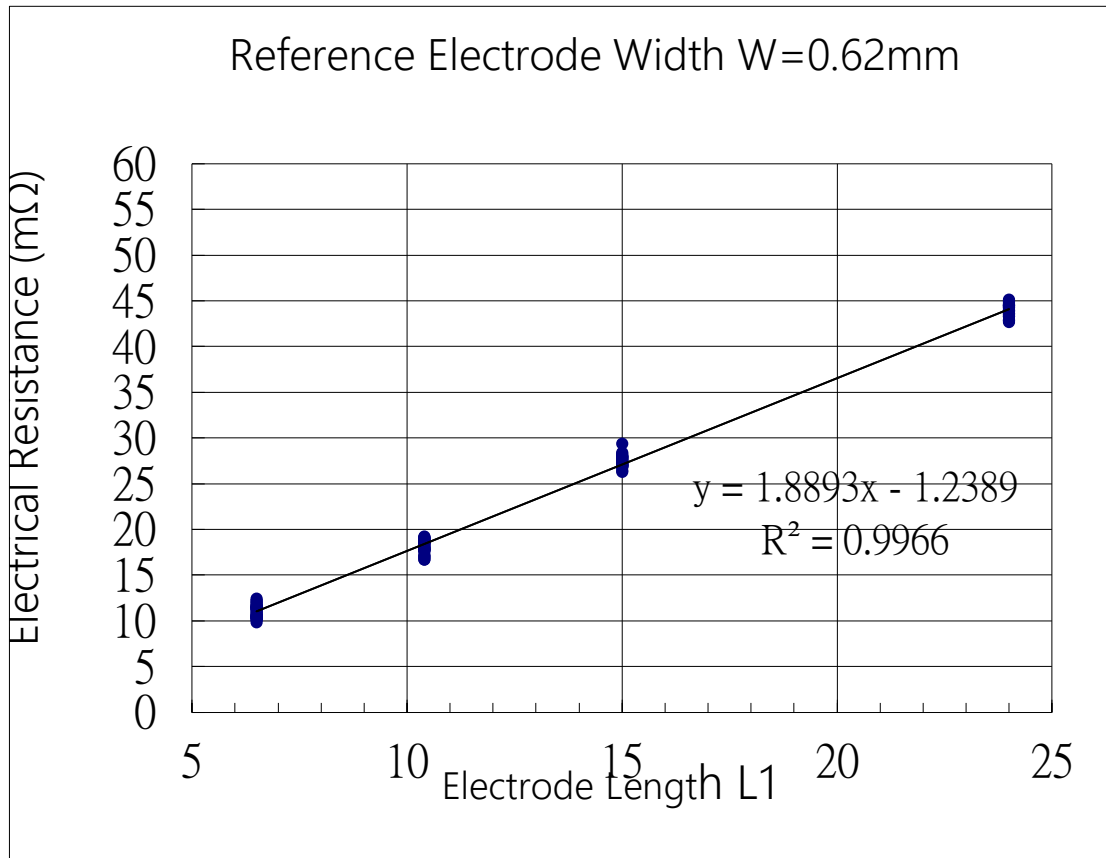


Fig.B2 shows the relationship between electrical resistance of the electrode and electrode length when the reference electrode width is 0.62mm.

Table A3 shows the electrical resistance for different reference electrode length of the 24mm, 15mm, 10.4mm, 6.5mm, when the electrode width is 0.426mm. (Unit: :mΩ)

Test Strip No.	Electrode length L1= 6.5mm	Electrode length L1= 10.4mm	Electrode length L1= 15mm	Electrode length L1= 24mm
1	14.2	22.75	36.7	62.29
2	13.2	24.11	37.5	62.25
3	13.41	22.83	37	62.45
4	13.31	24.38	36.52	62.42
5	13.31	23.53	37.11	61.46
6	13.68	24.44	37.32	62.65
7	13.42	23.03	36.59	61.17
8	13.59	23.24	36.84	61.01
9	13.31	23.03	36.44	60.78
10	13.46	22.91	36.07	61.03
11	13.67	24.27	35.65	63.4

12	13.15	25.35	34.8	60.84
13	13.18	24.09	35.3	61.72
14	13.28	24.3	34.7	61.74
15	12.54	23.77	35.68	61.45
16	12.21	23.64	36.23	61.23
17	13.21	24.08	35.38	61.76
18	12.57	23.94	36.15	61.23
19	12.59	23.56	35.66	61.45
20	13.05	22.39	35.4	60.69
21	12.35	24.3	37.31	62.57
22	13.5	23.28	37.18	61.14
23	12.87	23.58	36.1	60.22
24	12.05	24.16	37.16	60.59
25	12.39	22.75	37.01	59.24
26	13	21.5	36.85	60.88
27	13.08	21.6	36.55	60.4
28	12.15	22.44	35.57	60
29	12.23	22.3	35.91	59.87
30	11.9	22.62	35.71	59.49
Average	13.00	23.41	36.28	61.25
STDEV	0.57	0.89	0.78	0.98
CV(%)	4.39	3.82	2.14	1.60

Summarizing the data in Table A3, we can obtain the data shown in Fig.B3.

N(Test Number)	120
Slope	2.7635
Y-intercept	-5.1385
Correlation Coefficient (R^2)	0.998

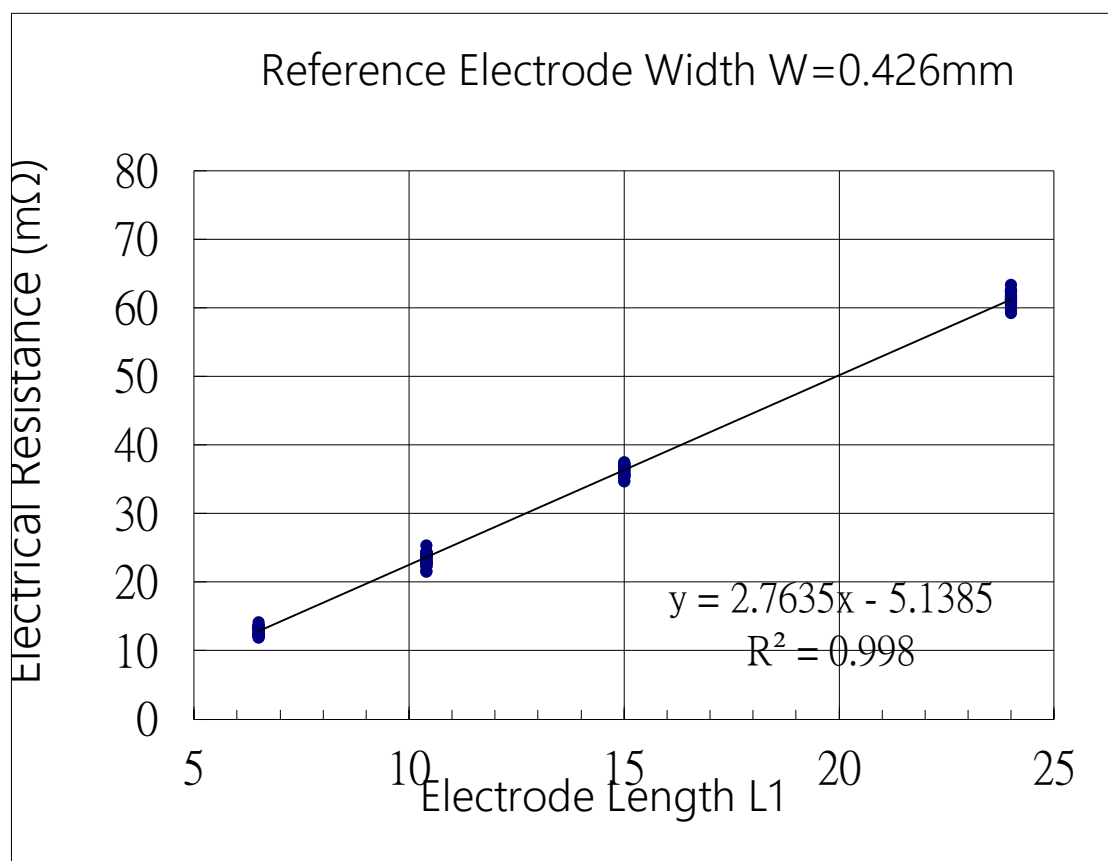


Fig.B3 shows the relationship between electrical resistance of the electrode and electrode length when the reference electrode width is 0.426mm.

Table A4 shows the electrical resistance for different reference electrode length of the 24mm, 15mm, 10.4mm, 6.5mm, when the electrode width is 0.206mm. (Unit: :mΩ)

Test Strip No.	Electrode length L1= 6.5mm	Electrode length L1= 10.4mm	Electrode length L1= 15mm	Electrode length L1= 24mm
1	17.73	41.16	67.05	122.14
2	18.75	40.55	68.87	115.89
3	18.97	41.12	69.71	119.63
4	18.6	39.87	66.78	115.84
5	18.95	40.45	66.83	113.93
6	19.16	40.61	65.87	112.45
7	18.56	40.3	65.87	114.78
8	18.71	39.03	67.62	115.75
9	19.04	40.23	66.52	116.42
10	18.63	39.84	65.28	114.53
11	18.74	41.63	66.74	117.89

12	18.5	40.45	67.08	118.52
13	18.51	40.39	66.98	116.36
14	18.99	41.5	65.64	118.45
15	18.51	39.54	67.42	113.55
16	18.84	39.4	65.35	115.15
17	18.36	40.18	64.31	114.3
18	19.43	40.08	66.38	113.52
19	18.61	41.97	65.87	114.98
20	18.13	40.23	64.43	114.28
21	18.61	40.87	65.47	120.06
22	18.55	39.65	67.6	117.61
23	18.19	41.42	66.58	121.04
24	18.47	41.33	64.52	117.43
25	18.33	40.26	65.55	115.5
26	18.67	38.97	64.46	115.82
27	17.65	39.64	64.59	115.1
28	18.25	39.21	65.16	115.23
29	18.19	39.72	65.87	116.2
30	17.03	39.5	63.96	113.36
Average	18.52	40.30	66.15	116.19
STDEV	0.47	0.80	1.35	2.36
CV(%)	2.56	1.98	2.04	2.03

Summarizing the data in Table A4, we can obtain the data shown in Fig.B4.

N(Test Number)	120
Slope	5.5818
Y-intercept	-17.716
Correlation Coefficient (R^2)	0.9985

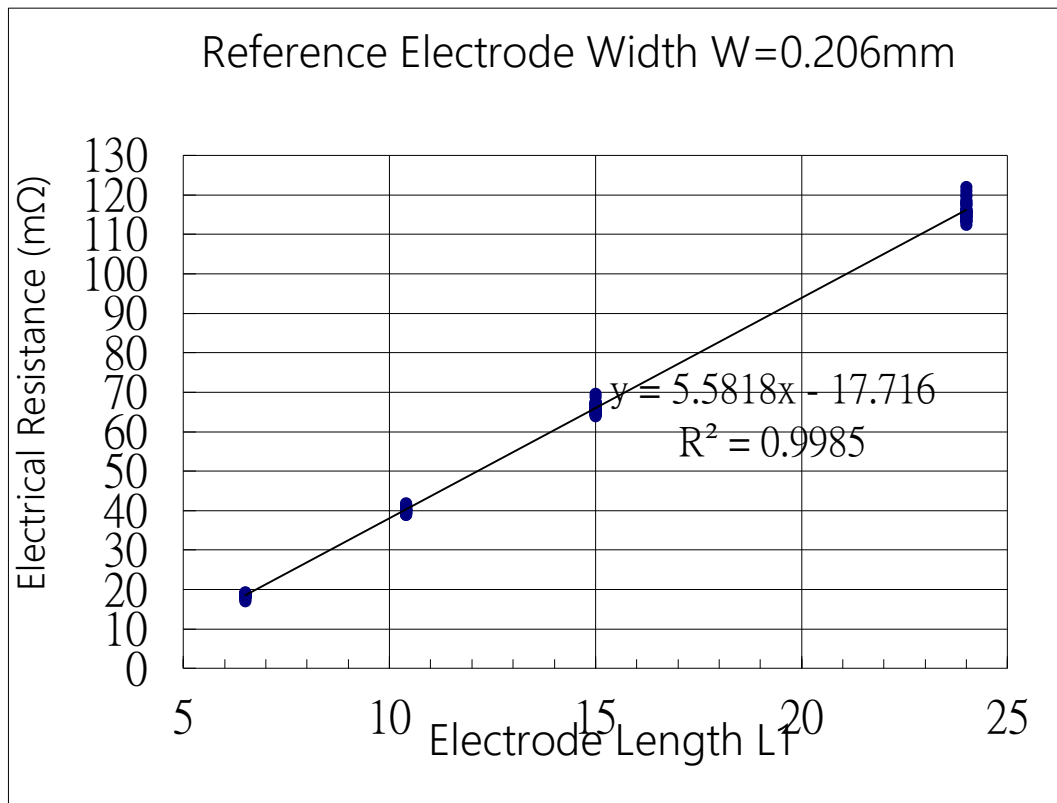


Fig.B4 shows the relationship between electrical resistance of the electrode and electrode length when the reference electrode width is 0.206mm.

(2) Second reference data

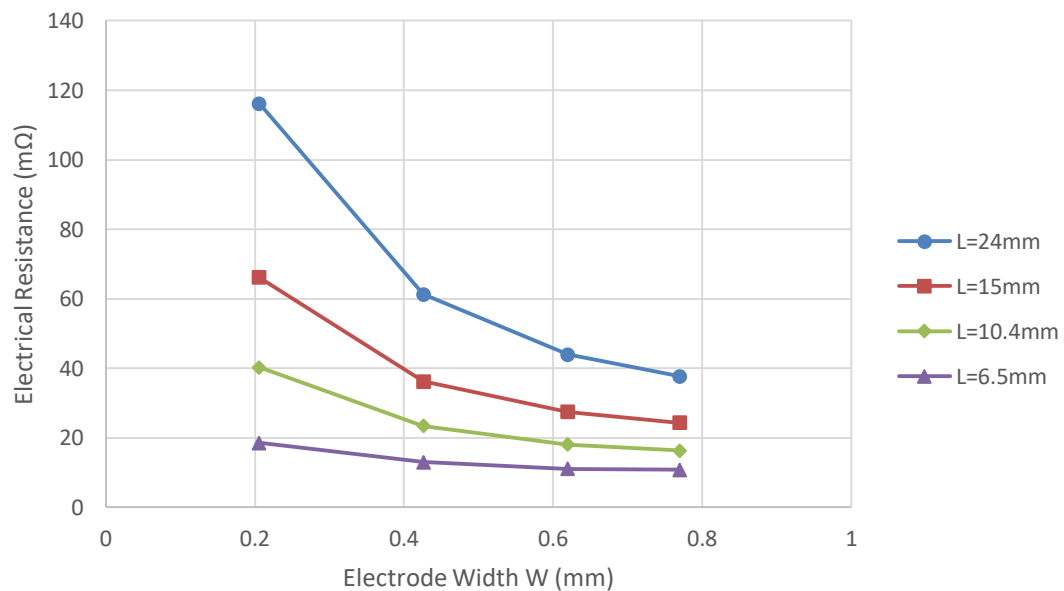


Fig.6 shows the relationship between the average electrical resistance and reference electrode width for 4 different reference electrode lengths. The Fig.6 in the submitted paper was obtained from the following Tables C1 to C4 and Figures D1 to D4.

Table C1 shows the electrical resistance for different reference electrode widths of 0.206mm, 0.426mm, 0.62mm, and 0.77mm, when the electrode length L1 is 24mm. (Unit:mΩ)

	W= 0.206mm	W= 0.426mm	W= 0.62mm	W= 0.77mm
1	122.14	62.29	44.65	36.13
2	115.89	62.25	43.31	36.9
3	119.63	62.45	43.95	37.05
4	115.84	62.42	43.88	37.96
5	113.93	61.46	42.85	37.42
6	112.45	62.65	44.42	37.3
7	114.78	61.17	43.65	37.45
8	115.75	61.01	43.35	36.92
9	116.42	60.78	43.61	37.13
10	114.53	61.03	42.69	36.63
11	117.89	63.4	45.12	38.48
12	118.52	60.84	45	37.6
13	116.36	61.72	44.54	38.44
14	118.45	61.74	44.92	38
15	113.55	61.45	44.79	38.42
16	115.15	61.23	43.93	38.33
17	114.3	61.76	44.31	37.77
18	113.52	61.23	43.91	37.97
19	114.98	61.45	44.53	37.66
20	114.28	60.69	44.49	37.21
21	120.06	62.57	44.31	37.72
22	117.61	61.14	42.87	38.89
23	121.04	60.22	44.56	37.75
24	117.43	60.59	44.04	38.28
25	115.5	59.24	44.45	36.92
26	115.82	60.88	43.53	38.1
27	115.1	60.4	44.21	38.42
28	115.23	60	43.61	38.09
29	116.2	59.87	43.31	38.48
30	113.36	59.49	42.9	38.51
Average	116.19	61.25	43.99	37.73
STDEV	2.36	0.98	0.68	0.67

CV(%)	2.03	1.60	1.55	1.77
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Summarizing the data in Table C1, we can obtain the data shown in Fig.D1.

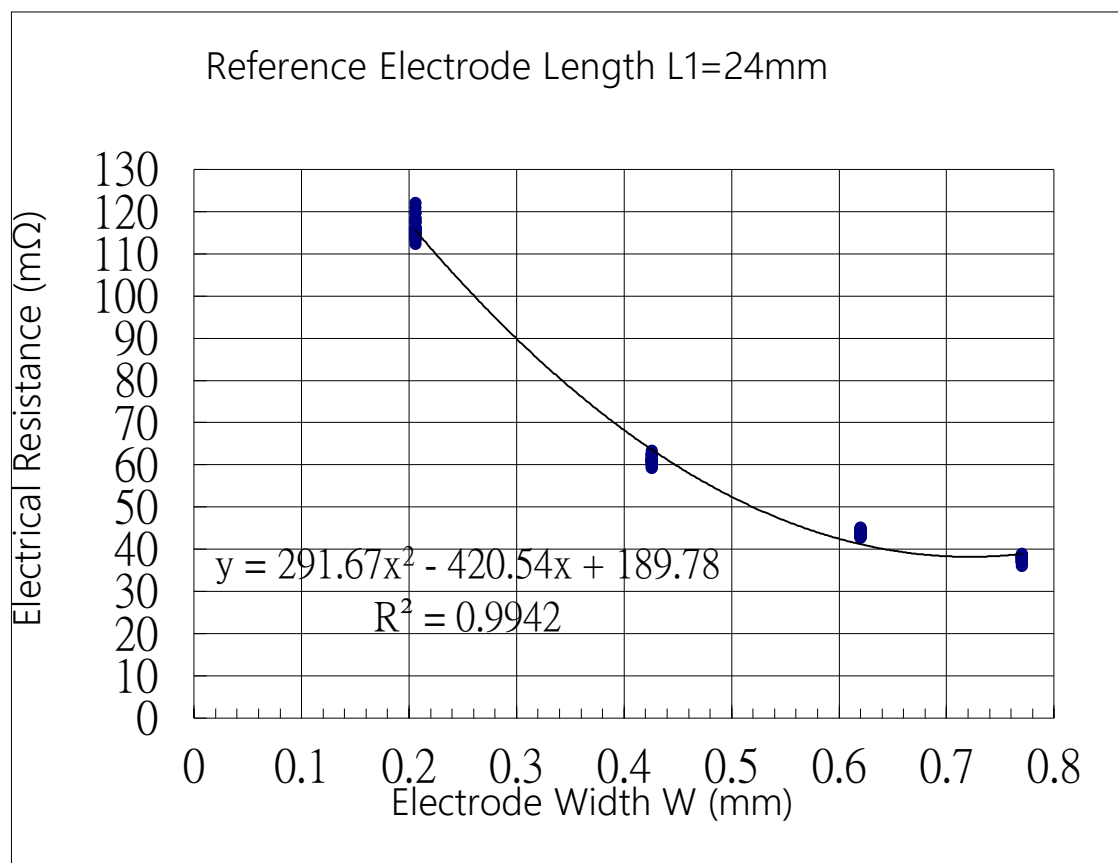


Fig.D1 shows the relationship between electrical resistance of the electrode and electrode width when the reference electrode length L1 is 24mm.

Table C2 shows the electrical resistance for different reference electrode widths of 0.206mm, 0.426mm, 0.62mm, and 0.77mm, when the electrode length L1 is 15mm. (Unit: :mΩ)

	W= 0.206mm	W= 0.426mm	W= 0.62mm	W= 0.77mm
1	67.05	37.31	27.59	25.15
2	68.87	37.18	27.04	26.23
3	69.71	36.1	27.75	25.27
4	66.78	37.16	28.42	26.23
5	66.83	37.01	29.35	25.94
6	65.87	36.85	28.07	26.83
7	65.87	36.55	27.67	27.35
8	67.62	35.57	27.33	25.42
9	66.52	35.91	26.95	24.7

10	65.28	35.71	26.85	24.63
11	66.74	36.7	27.83	23.8
12	67.08	37.5	28.07	24
13	66.98	37	27.37	24.31
14	65.64	36.52	27.47	23.66
15	67.42	37.11	27.94	22.77
16	65.35	37.32	28.24	23.84
17	64.31	36.59	27.91	23.93
18	66.38	36.84	27.28	23.96
19	65.87	36.44	26.78	24.08
20	64.43	36.07	28	23.29
21	65.47	35.65	27.16	23.88
22	67.6	34.8	27.05	23.92
23	66.58	35.3	27.12	23.94
24	64.52	34.7	26.46	23.11
25	65.55	35.68	26.9	22.88
26	64.46	36.23	27.6	23.1
27	64.59	35.38	26.29	24.3
28	65.16	36.15	27.08	23.91
29	65.87	35.66	27.41	23.53
30	63.96	35.4	27.02	23.85
Average	66.15	36.28	27.47	24.39
STDEV	1.35	0.78	0.63	1.17
CV(%)	2.04	2.14	2.30	4.79

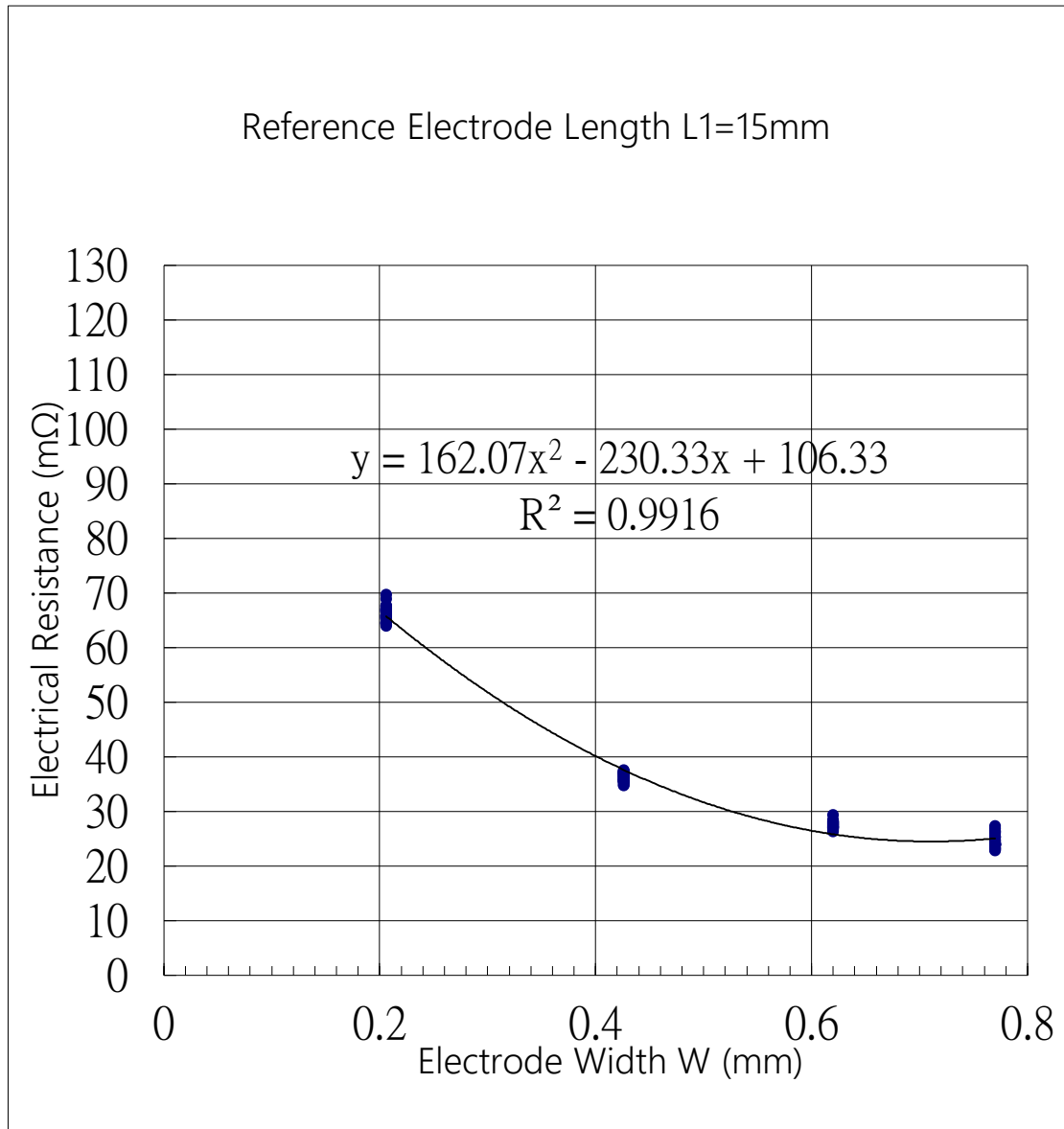


Fig.D2 shows the electrical resistance for different reference electrode widths of 0.206mm, 0.426mm, 0.62mm, and 0.77mm, when the electrode length L1 is 15mm.

Table C3 shows the electrical resistance for different reference electrode widths of 0.206mm, 0.426mm, 0.62mm, and 0.77mm, when the electrode length L1 is 10.4mm. (Unit: :mΩ)

	W= 0.206mm	W= 0.426mm	W= 0.62mm	W= 0.77mm
1	41.16	22.75	18.46	17.76
2	40.55	24.11	18.89	17.11
3	41.12	22.83	19	17
4	39.87	24.38	19.2	16.85
5	40.45	23.53	19.13	16.85

6	40.61	24.44	18.54	17.4
7	40.3	23.03	18.41	16.7
8	39.03	23.24	18.58	17.4
9	40.23	23.03	18.64	16.74
10	39.84	22.91	18.08	17.64
11	41.63	24.27	19.06	16.53
12	40.45	25.35	18.75	15.3
13	40.39	24.09	17.68	15.97
14	41.5	24.3	17.79	16.05
15	39.54	23.77	17.24	15.48
16	39.4	23.64	17.82	16.25
17	40.18	24.08	17.06	16.51
18	40.08	23.94	17.63	15.39
19	41.97	23.56	18	15.71
20	40.23	22.39	17.08	15.24
21	40.87	24.3	18.92	16.09
22	39.65	23.28	18.15	15
23	41.42	23.58	18.12	14.95
24	41.33	24.16	16.7	15.28
25	40.26	22.75	17.86	16.31
26	38.97	21.5	19.04	15.97
27	39.64	21.6	18.52	16.67
28	39.21	22.44	16.95	17.2
29	39.72	22.3	16.72	15.79
30	39.5	22.62	17.91	17.11
Average	40.30	23.41	18.13	16.34
STDEV	0.80	0.89	0.75	0.81
CV(%)	1.98	3.82	4.15	4.98

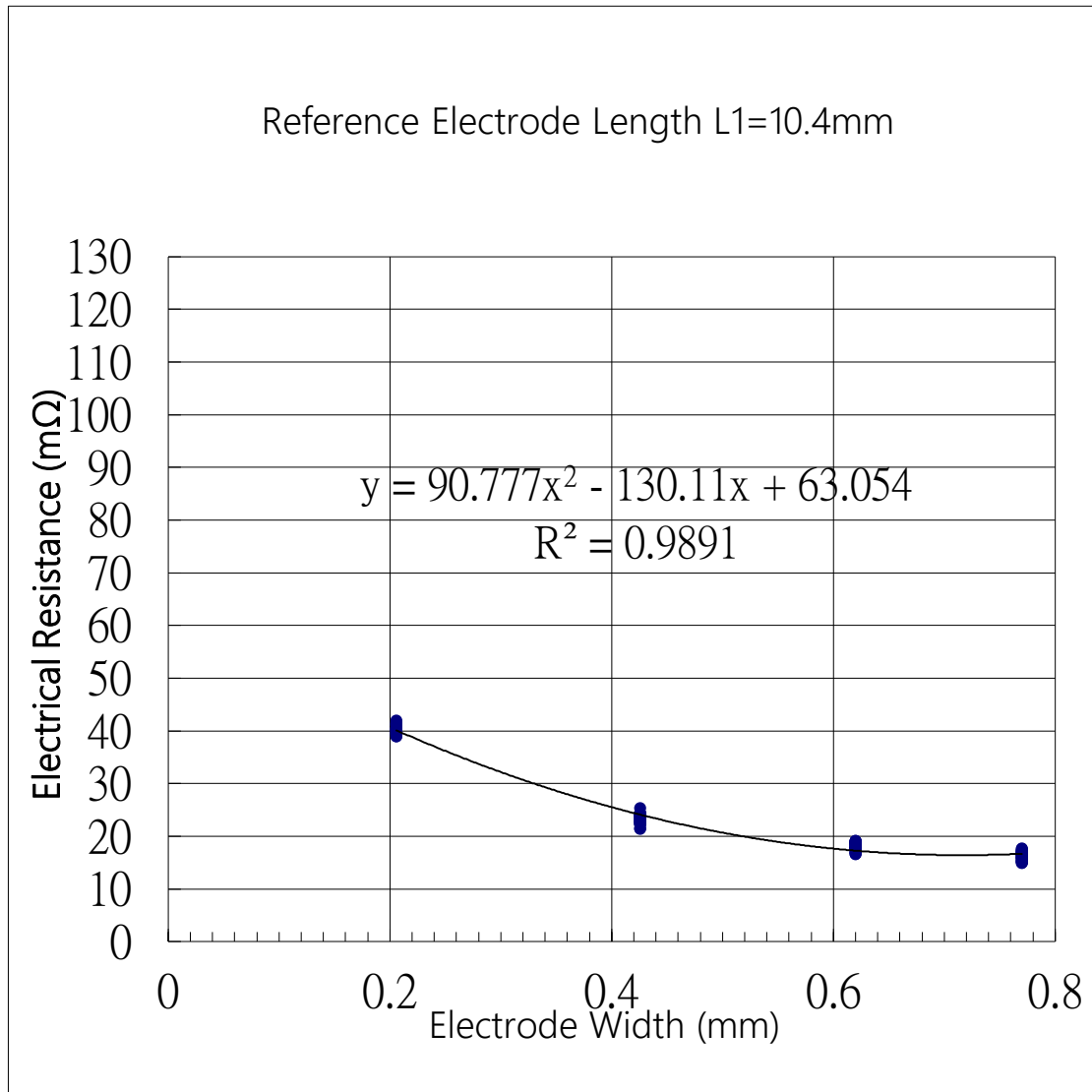


Fig. D3 shows the electrical resistance for different reference electrode widths of 0.206mm, 0.426mm, 0.62mm, and 0.77mm, when the electrode length L1 is 10.4mm.

Table C4 shows the electrical resistance for different reference electrode widths of 0.206mm, 0.426mm, 0.62mm, and 0.77mm, when the electrode length L1 is 6.5mm. (Unit: :mΩ)

	W= 0.206mm	W= 0.426mm	W= 0.62mm	W= 0.77mm
1	17.73	14.2	11.64	12.23
2	18.75	13.2	12.45	12.32
3	18.97	13.41	12.23	11.85
4	18.6	13.31	11.55	12.56
5	18.95	13.31	10.86	13.32
6	19.16	13.68	12.15	12.83

7	18.56	13.42	11.85	11.3
8	18.71	13.59	11.67	11.1
9	19.04	13.31	11.42	10.37
10	18.63	13.46	10.39	12.8
11	18.74	13.67	11.42	9.73
12	18.5	13.15	11.41	9.37
13	18.51	13.18	11.5	10
14	18.99	13.28	11.08	10.5
15	18.51	12.54	11.52	10.24
16	18.84	12.21	11.08	10.45
17	18.36	13.21	11.95	9.45
18	19.43	12.57	10.8	9.81
19	18.61	12.59	10.57	9.83
20	18.13	13.05	10.42	9.48
21	18.61	12.35	10.38	10
22	18.55	13.5	10.63	10.49
23	18.19	12.87	10.59	10.39
24	18.47	12.05	10.11	10.95
25	18.33	12.39	10.41	10.72
26	18.67	13	10.2	9.76
27	17.65	13.08	11.3	10.72
28	18.25	12.15	10.22	9.96
29	18.19	12.23	10.5	10.78
30	17.03	11.9	9.82	10.85
Average	18.52	13.00	11.07	10.81
STDEV	0.47	0.57	0.70	1.12
CV(%)	2.56	4.39	6.36	10.33

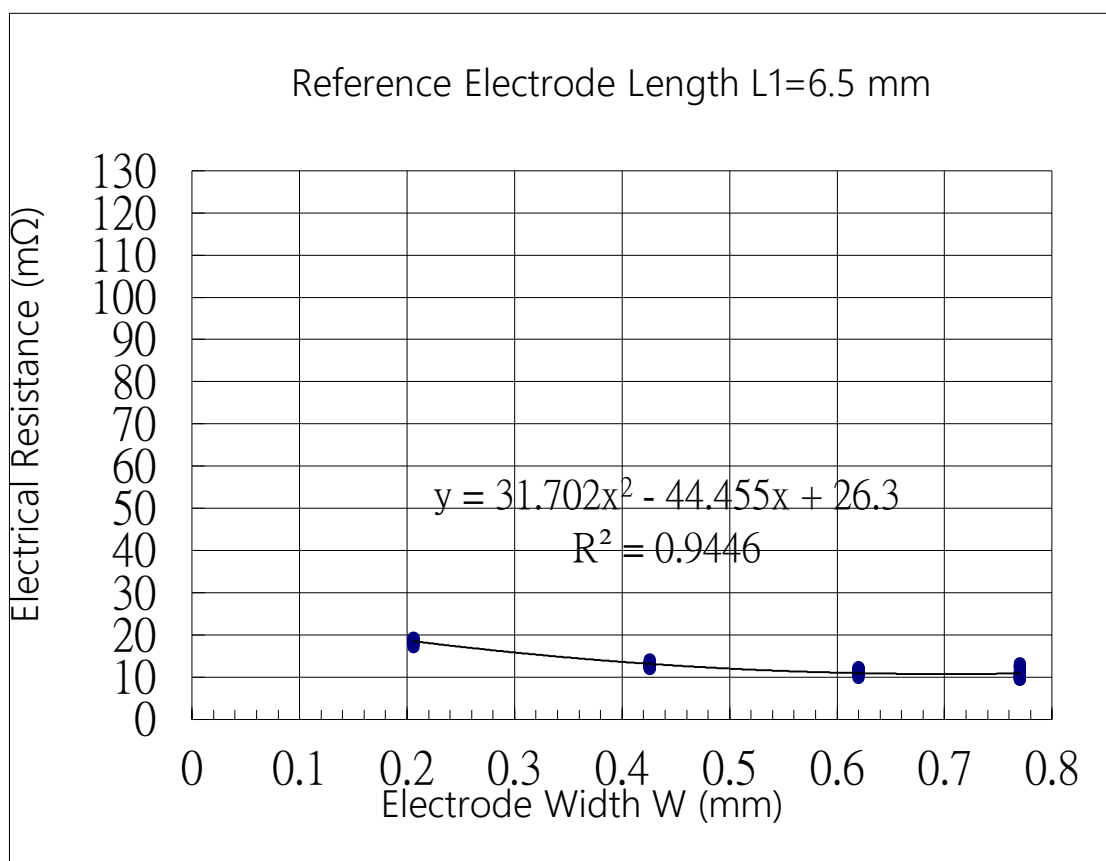


Fig.D4 shows the electrical resistance for different reference electrode widths of 0.206mm, 0.426mm, 0.62mm, and 0.77mm, when the electrode length L1 is 6.5mm.

(3) Third reference data

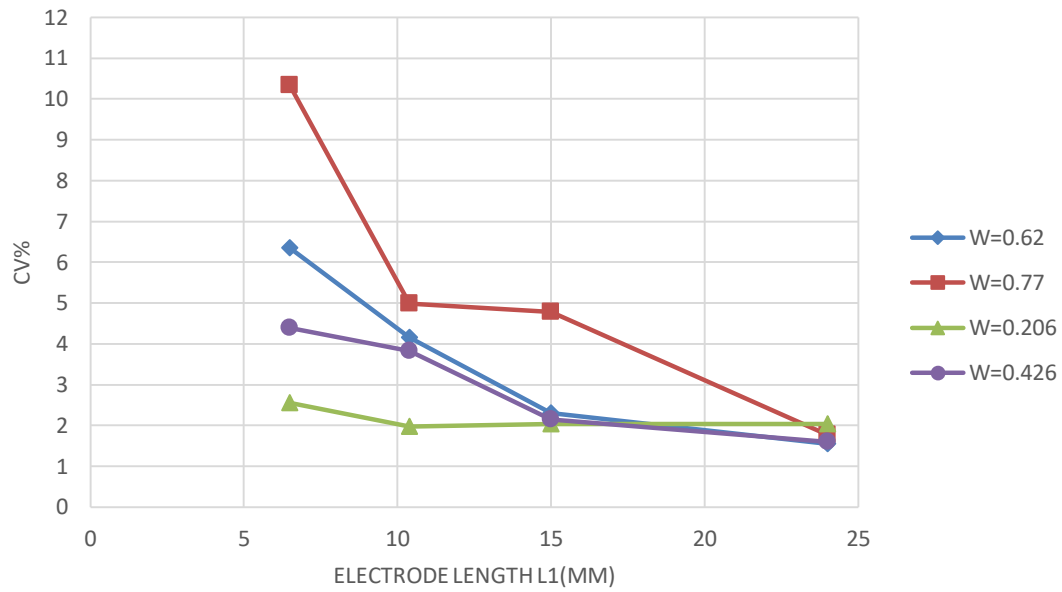


Fig.7 CV in electrical resistance against electrode length for different reference electrode width for the reference electrodes.

This Fig.7 in the submitted paper was obtained from the following Tables E1 which is the summary of Table A1 to A4.

Table E1 CV on electrical resistance for reference electrodes with various length and width. (Unit:%).

	W=0.206mm	W=0.426mm	W=0.62mm	W=0.77mm
CV (L1=24mm)	2.03	1.6	1.55	1.77
CV (L1=15mm)	2.04	2.14	2.30	4.79
CV (L1=10.4mm)	1.98	3.82	4.15	4.98
CV (L1=6.5mm)	2.56	4.39	6.36	10.33

(4) Fourth Reference Data

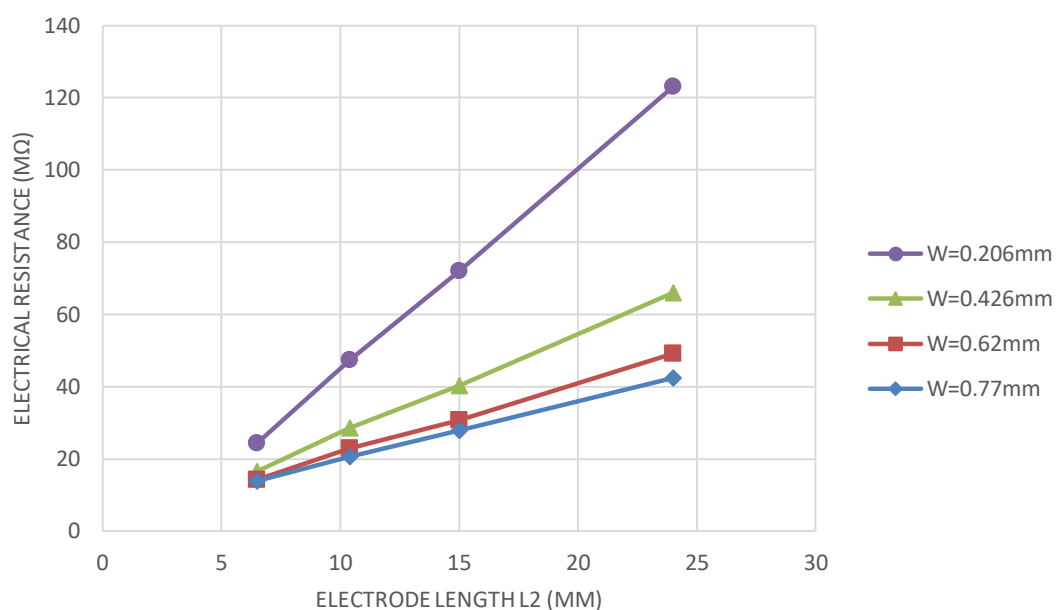


Fig.8 shows the relationship between the average electrical resistance of the working electrode and electrode length for 4 different electrode widths.

This Fig.8 in the submitted paper was obtained from the following Tables F1 to F4 and Figures G1 to G4.

Table F1 shows the electrical resistance for different working electrode length of the 24.65mm, 15.65mm, 11.05mm, 7.15mm, when the electrode width W is 0.77mm. (Unit: :mΩ)

Test Strip No.	Electrode length L2= 7.15mm	Electrode length L2= 11.05mm	Electrode length L2= 15.65mm	Electrode length L2= 24.65mm
1	15.51	20.72	29	42.16
2	14.32	20.09	27.81	41.85
3	15.03	19.61	27.92	42.05
4	14.86	19.61	28.73	42.5
5	15.03	18.87	30.53	41.12
6	15.28	20.86	29.58	42.76
7	15.11	20.72	29.47	41.7
8	14.68	20.82	30.9	41.16
9	15.51	20.72	30.63	42.04
10	14.46	20.33	29.61	42.7
11	13.35	20.92	27.31	42.78

12	13.62	20.25	27.37	42.93
13	13.52	21.28	27.28	43.11
14	13.42	20.35	27.26	41.3
15	13.95	20.1	26.89	42.24
16	13.96	20.25	27.63	43.5
17	13.07	19.71	27.24	43.4
18	13.14	20.1	26.51	43.34
19	13.22	21.05	26.66	41.79
20	13.23	20.27	27.71	41.98
21	13.18	21.09	27.19	43.47
22	13.15	20.75	26.5	42.78
23	13.49	21.81	26.93	42.05
24	13.14	20.87	26.95	41.15
25	13.38	20.57	27.21	42.23
26	13.16	21.88	26.59	42.35
27	13.31	20.63	26.84	42.89
28	13.48	20.77	27.01	43.03
29	13.08	20.54	26.44	42.05
30	12.92	21.35	26.7	42.8
Average	13.89	20.56	27.81	42.37
STDEV	0.85	0.64	1.34	0.70
CV(%)	6.11	3.12	4.80	1.65

Summarizing the data in Table F1, we can obtain the data shown in Fig.G1.

N	120
Slope	1.6215
Y-intercept	3.4977
Correlation Coefficient (R^2)	0.9926

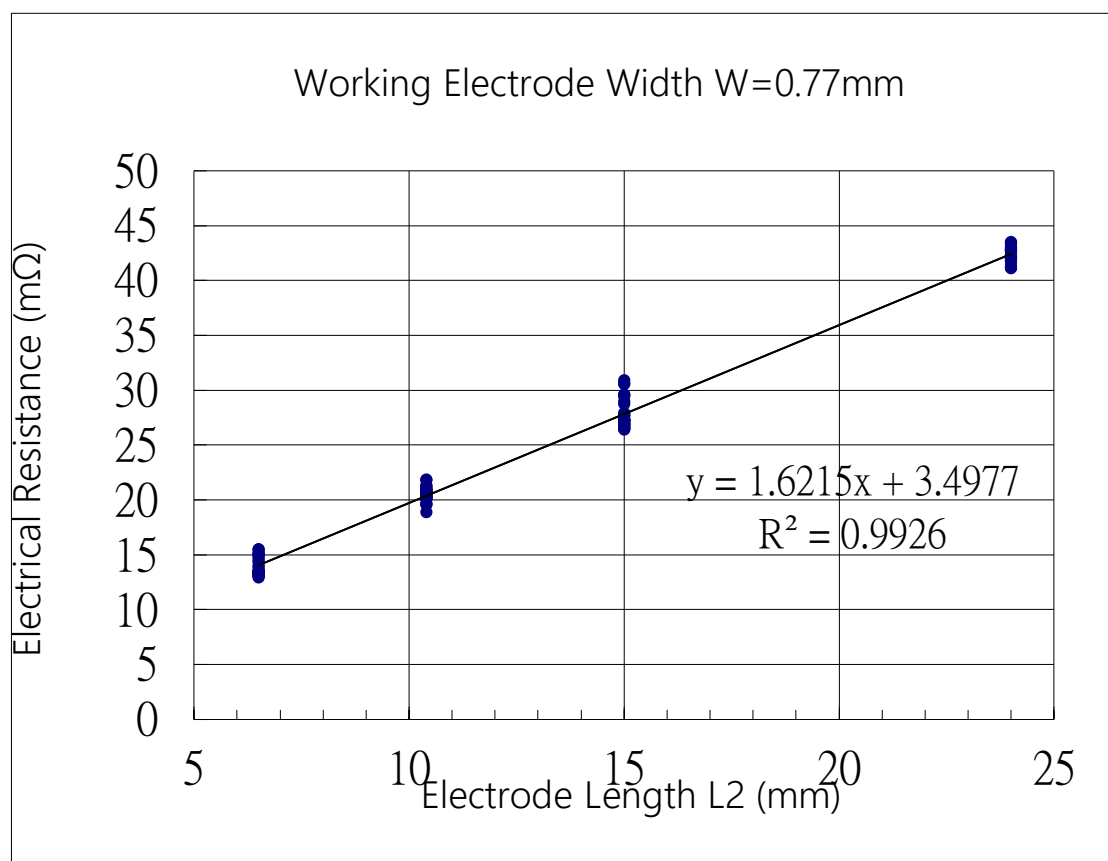


Fig.G1 shows the electrical resistance for different working electrode length when the electrode width W is 0.77mm.

Table F2 shows the electrical resistance for different working electrode length of the 24.65mm, 15.65mm, 11.05mm, 7.15mm, when the electrode width W is 0.62mm. (Unit: :mΩ)

Test Strip No.	Electrode length L2= 7.15mm	Electrode length L2= 11.05mm	Electrode length L2= 15.65mm	Electrode length L2= 24.65mm
1	15.3	23.58	30.57	48.86
2	14.71	23.36	30.72	49.65
3	14.63	22.85	30.67	50.51
4	14.59	22.42	31.12	49.95
5	15.41	22.75	30.55	49.32
6	14.45	23.54	31.32	48.43
7	14.4	22.01	30.92	48.41
8	14.65	24.26	30.89	48.47
9	13.76	24	30.61	47.85
10	14.36	23.71	30.42	48.23
11	14.44	22.95	30.88	50

12	14.62	22.73	30.89	49.81
13	14.58	23.38	30.95	49.44
14	14.13	23.27	31.13	51.17
15	13.91	25.24	31.18	50.74
16	14.26	23.63	31.14	48.11
17	14.15	23.14	31.4	49
18	14.07	22.5	30.75	49.09
19	13.97	22.48	31.61	48.69
20	14.02	23.38	31.11	48.82
21	14.16	23.05	30.3	48.49
22	13.73	22.68	30.25	50.77
23	14.08	22.59	30.62	49.48
24	14.1	22.91	30.49	49.42
25	14.03	23.32	30.38	49.84
26	14.23	21.53	30.55	48.56
27	14.15	22.68	30.78	48.23
28	13.9	21.46	30.46	48.56
29	14.25	21.63	30.76	47.77
30	13.56	21.65	30.77	47.07
Average	14.29	22.96	30.81	49.09
STDEV	0.41	0.84	0.34	0.98
CV(%)	2.89	3.64	1.09	1.99

Summarizing the data in Table F2, we can obtain the data shown in Fig.G2.

N	120
Slope	1.9673
Y-intercept	1.7915
Correlation Coefficient (R^2)	0.9959

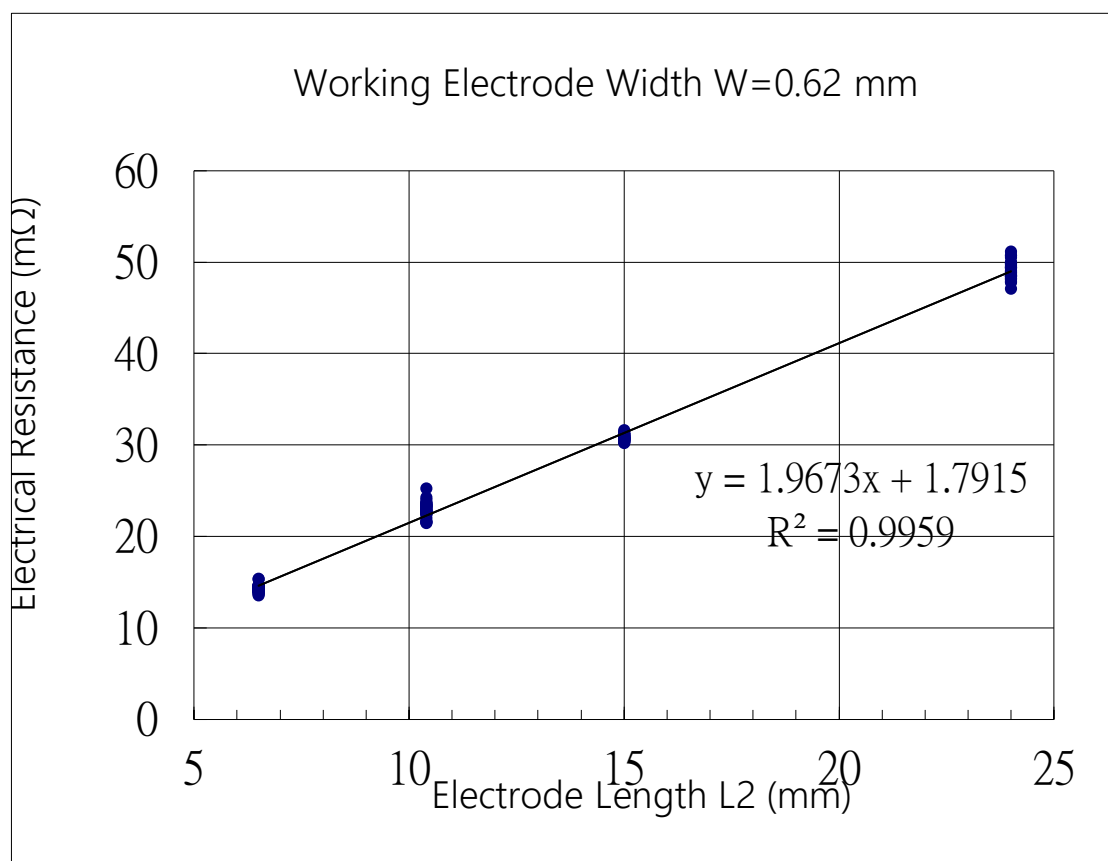


Fig.G2 shows the electrical resistance for different working electrode length when the electrode width W is 0.62mm.

Table F3 shows the electrical resistance for different working electrode length of the 24.65mm, 15.65mm, 11.05mm, 7.15mm, when the electrode width W is 0.426mm. (Unit: :mΩ)

Test Strip No.	Electrode length L2= 7.15mm	Electrode length L2= 11.05mm	Electrode length L2= 15.65mm	Electrode length L2= 24.65mm
1	16.83	28.25	41.33	66.97
2	16.81	29.35	40.88	68.4
3	17.19	28.5	41.01	67.33
4	16.74	29.8	40.57	66.76
5	16.53	28.41	40.57	67.74
6	16.81	28.64	40.47	65.71
7	16.46	29.47	39.67	66.22
8	16.87	29.54	39.82	65.42
9	16.73	27.81	40.02	65.63
10	16.21	28.78	39.51	66.35

11	16.96	28.07	41.72	67.54
12	16.8	29.87	40.67	65.91
13	16.48	28.04	40.36	67.21
14	16.63	27.88	40.98	65.12
15	16.79	29.62	40.53	66.91
16	16.6	27.89	40.23	65.81
17	16.69	28.67	39.93	64.63
18	16.91	28.54	39.76	66.55
19	16.73	27.84	40.14	65.31
20	16.58	29.54	39.83	65.72
21	16.69	27.61	40.37	64.67
22	16.33	29.43	40.77	65.04
23	16.35	29.22	39.97	66.09
24	16.55	29.17	40.15	64.48
25	16.13	27.2	40.17	66.51
26	16.69	28.21	40.02	65.43
27	16.4	28.87	39.43	65.45
28	16.25	29.12	39.66	66.05
29	16.28	27.54	39.92	64.71
30	16.51	27.07	39.34	65.01
Average	16.62	28.60	40.26	66.023
STDEV	0.25	0.80	0.57	1.01
CV(%)	1.48	2.79	1.41	1.53

Summarizing the data in Table F3, we can obtain the data shown in Fig.G3.

N	120
Slope	2.8006
Y-intercept	-1.2641
Correlation Coefficient (R^2)	0.9979

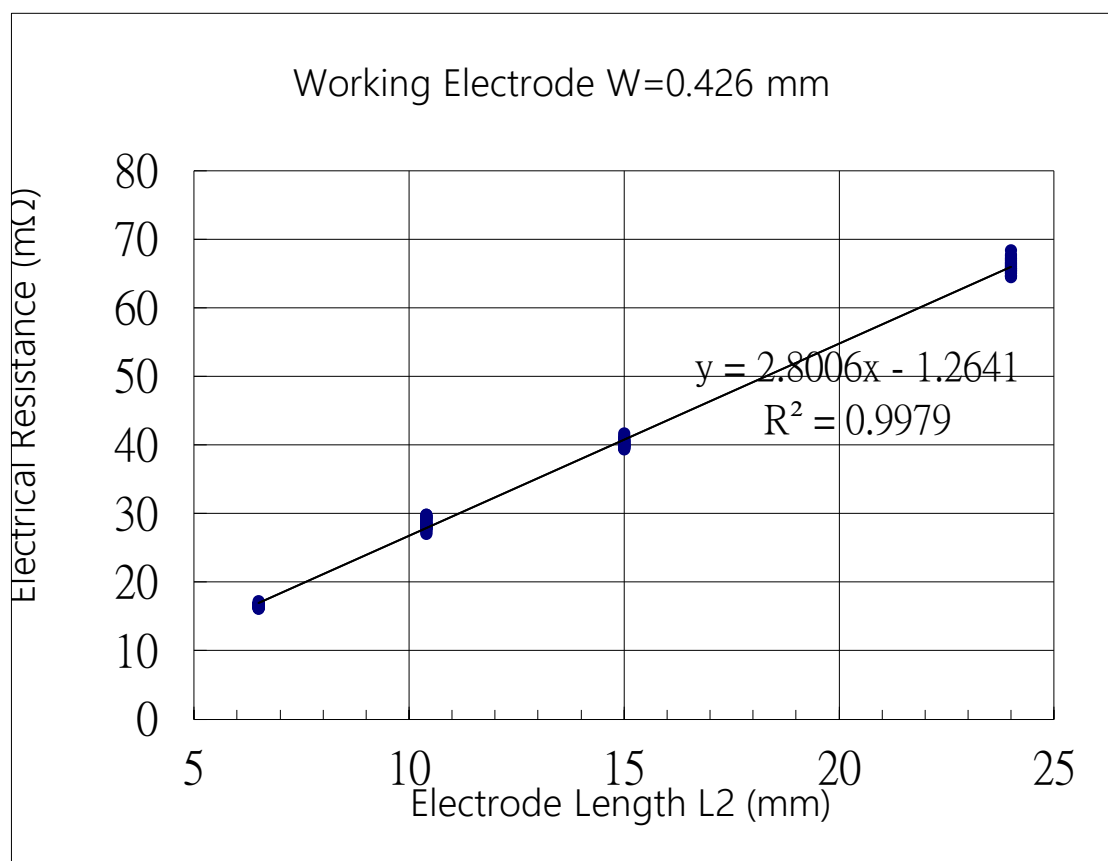


Fig.G3 shows the electrical resistance for different working electrode length when the electrode width W is 0.426mm.

Table F4 shows the electrical resistance for different working electrode length of the 24.65mm, 15.65mm, 11.05mm, 7.15mm, when the electrode width W is 0.206mm. (Unit: :mΩ)

Test Strip No.	Electrode length L2= 7.15mm	Electrode length L2= 11.05mm	Electrode length L2= 15.65mm	Electrode length L2= 24.65mm
1	25.35	48.51	74.41	123
2	24.28	48.42	72.7	122.43
3	24.12	48.41	75.5	124.47
4	24.28	47.37	73.13	121.45
5	23.91	47.97	71.04	127.83
6	24.17	48.65	70.74	119.87
7	23.63	47.38	70.84	119.38
8	23.42	46.2	71.3	123.69
9	23.85	49.36	72.65	121.94
10	23.91	47.44	69.64	119.87

11	24.7	46.83	74.69	122.23
12	23.86	48.27	71.38	122.98
13	23.87	46.69	73.34	123.15
14	24.48	47.75	72.21	120.81
15	23.9	47.54	71.07	123.11
16	23.59	46.75	70.15	123.1
17	24.1	45.62	69.98	121.96
18	23.83	46.76	69.65	120.4
19	23.97	47.09	71.54	124.67
20	24.26	48.59	70.94	119.23
21	24.59	45.55	74.12	125.43
22	25.81	48.44	73.88	131.45
23	25.59	46.87	73.49	128.15
24	24.94	47.1	72.16	122.2
25	25.41	47.65	71.1	125.12
26	24.08	47.44	70.88	123.22
27	23.94	47.13	72.25	120.36
28	24.18	47.65	71.87	125.21
29	24.28	48.38	71.52	121.11
30	25.13	46.3	70.47	122.21
Average	24.31	47.47	71.95	123.00
STDEV	0.62	0.92	1.55	2.74
CV(%)	2.54	1.95	2.16	2.23

Summarizing the data in Table F4, we can obtain the data shown in Fig.G4.

N	120
Slope	5.613
Y-intercept	-11.757
Correlation Coefficient (R^2)	0.9978

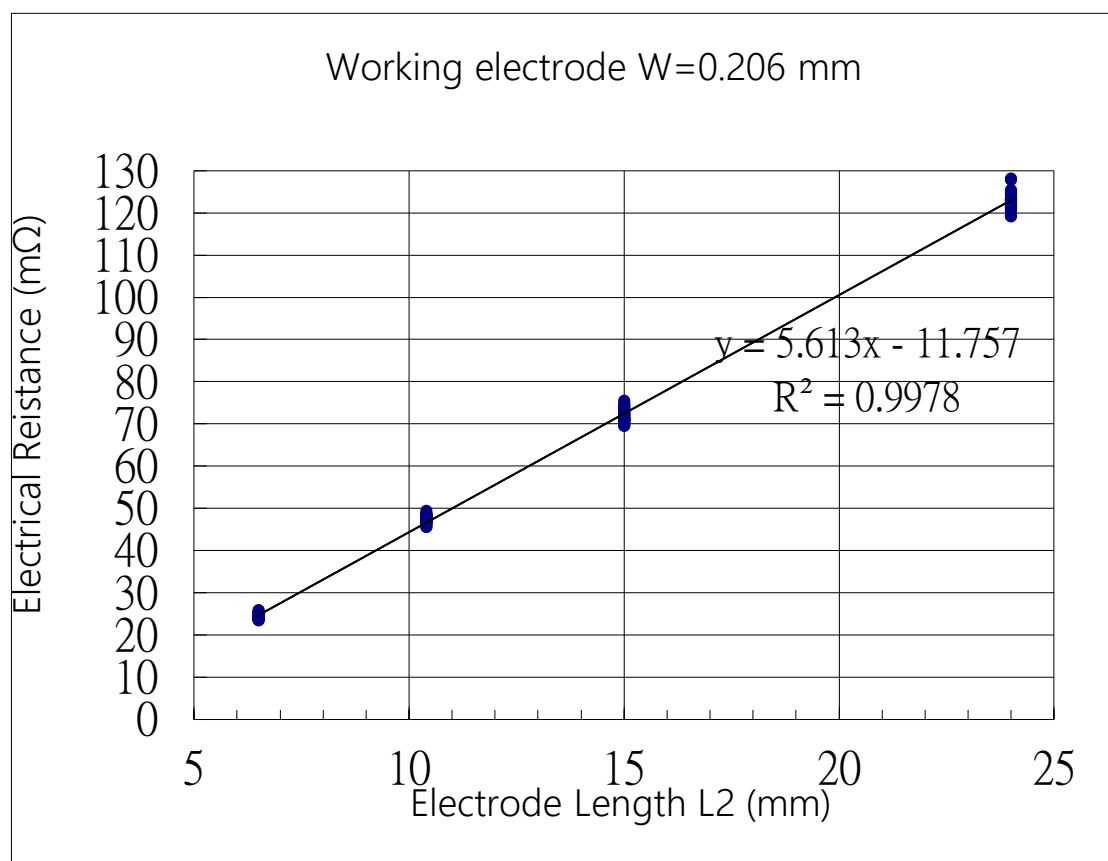


Fig.G4 shows the electrical resistance for different working electrode length when the electrode width W is 0.206mm.

(5) Fifth Reference Data

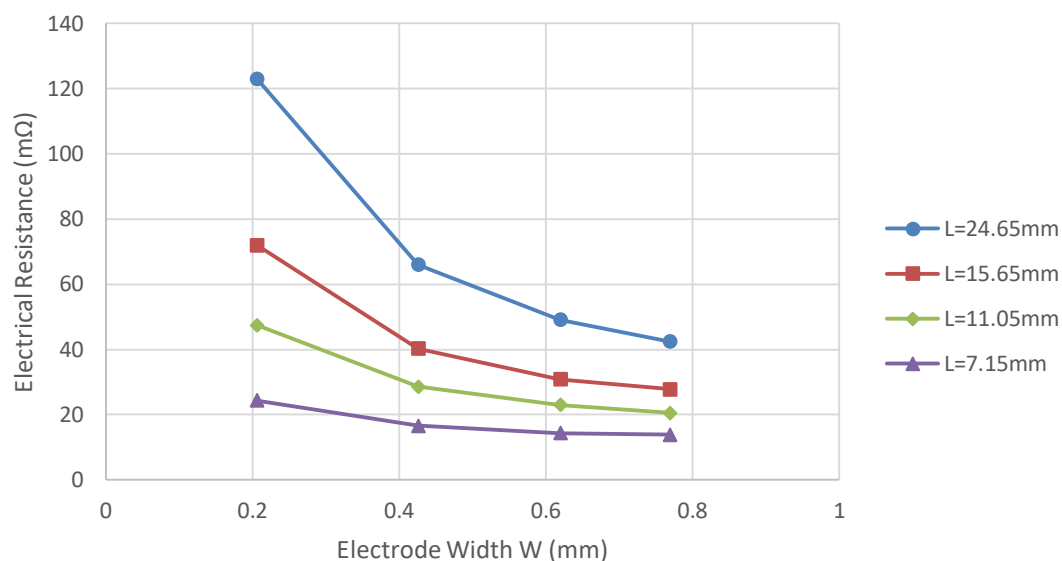


Fig.9 shows the relationship between electrical resistance of the working electrode and electrode width for 4 different electrode lengths.

This Fig.9 in the submitted paper was obtained from the following Tables H1 to H4 and Figures I1 to I4.

Table H1 shows the electrical resistance for different working electrode width of the 0.206mm, 0.426mm, 0.62mm, and 0.77mm, when the electrode length is 24.65mm. (Unit: :mΩ)

Test Strip No.	Electrode Width W= 0.206mm	Electrode Width W= 0.426mm	Electrode Width W= 0.62mm	Electrode Width W= 0.77mm
1	125.43	66.97	48.86	42.16
2	131.45	68.4	49.65	41.85
3	128.15	67.33	50.51	42.05
4	122.2	66.76	49.95	42.5
5	125.12	67.74	49.32	41.12
6	123.22	65.71	48.43	42.76
7	120.36	66.22	48.41	41.7
8	125.21	65.42	48.47	41.16
9	121.11	65.63	47.85	42.04
10	122.21	66.35	48.23	42.7
11	123	67.54	50	42.78
12	122.43	65.91	49.81	42.93
13	124.47	67.21	49.44	43.11
14	121.45	65.12	51.17	41.3
15	127.83	66.91	50.74	42.24
16	119.87	65.81	48.11	43.5
17	119.38	64.63	49	43.4
18	123.69	66.55	49.09	43.34

19	121.94	65.31	48.69	41.79
20	119.87	65.72	48.82	41.98
21	122.23	64.67	48.49	43.47
22	122.98	65.04	50.77	42.78
23	123.15	66.09	49.48	42.05
24	120.81	64.48	49.42	41.15
25	123.11	66.51	49.84	42.23
26	123.1	65.43	48.56	42.35
27	121.96	65.45	48.23	42.89
28	120.4	66.05	48.56	43.03
29	124.67	64.71	47.77	42.05
30	119.23	65.01	47.07	42.8
Average	123.00	66.02	49.09	42.37
STDEV	2.74	1.01	0.98	0.70
CV(%)	2.23	1.53	1.99	1.65

Summarizing the data in Table H1, we can obtain the data shown in Fig.I1.

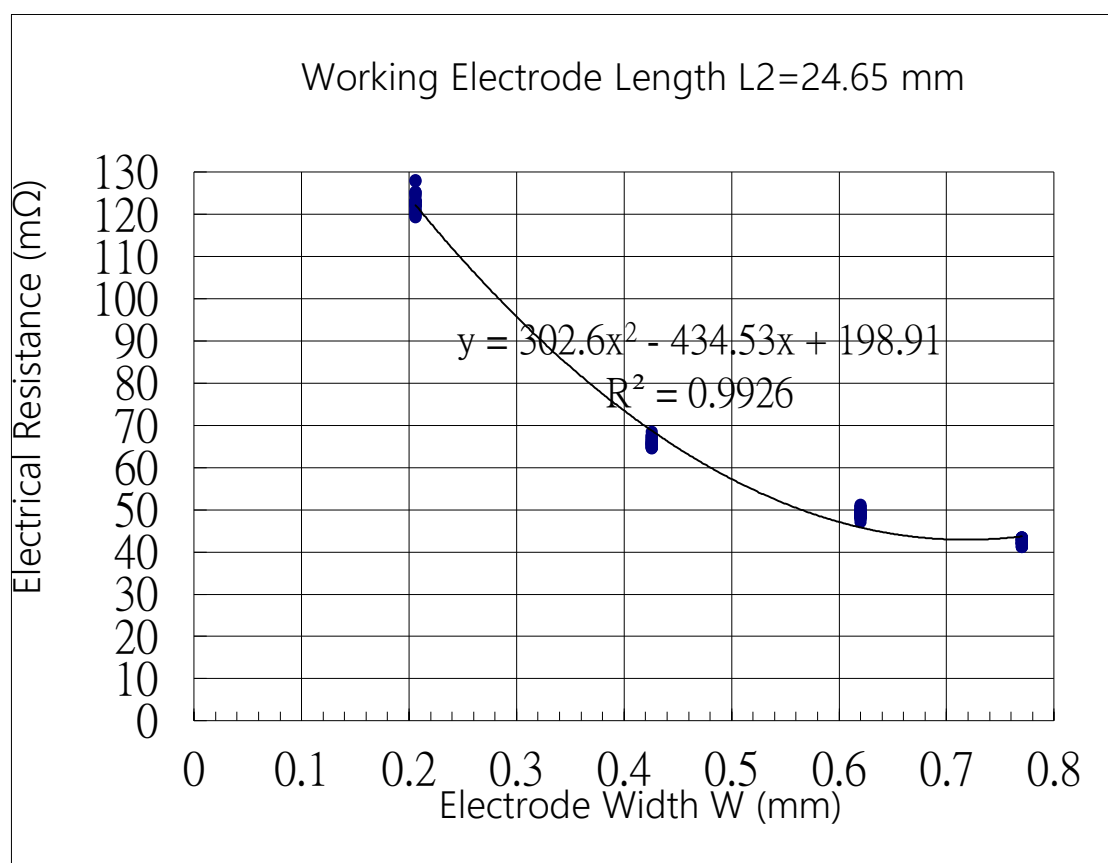


Fig.I1 shows the electrical resistance for different working electrode width when the electrode length is 24.65mm.

Table H2 shows the electrical resistance for different working electrode width of the 0.206mm, 0.426mm, 0.62mm, and 0.77mm, when the electrode length is 15.65mm. (Unit: :mΩ)

Test Strip	Electrode	Electrode	Electrode	Electrode
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No.	Width W= 0.206mm	Width W= 0.426mm	Width W= 0.62mm	Width W= 0.77mm
1	74.41	41.33	30.57	29
2	72.7	40.88	30.72	27.81
3	75.5	41.01	30.67	27.92
4	73.13	40.57	31.12	28.73
5	71.04	40.57	30.55	30.53
6	70.74	40.47	31.32	29.58
7	70.84	39.67	30.92	29.47
8	71.3	39.82	30.89	30.9
9	72.65	40.02	30.61	30.63
10	69.64	39.51	30.42	29.61
11	74.69	41.72	30.88	27.31
12	71.38	40.67	30.89	27.37
13	73.34	40.36	30.95	27.28
14	72.21	40.98	31.13	27.26
15	71.07	40.53	31.18	26.89
16	70.15	40.23	31.14	27.63
17	69.98	39.93	31.4	27.24
18	69.65	39.76	30.75	26.51
19	71.54	40.14	31.61	26.66
20	70.94	39.83	31.11	27.71
21	74.12	40.37	30.3	27.19
22	73.88	40.77	30.25	26.5
23	73.49	39.97	30.62	26.93
24	72.16	40.15	30.49	26.95
25	71.1	40.17	30.38	27.21
26	70.88	40.02	30.55	26.59
27	72.25	39.43	30.78	26.84
28	71.87	39.66	30.46	27.01
29	71.52	39.92	30.76	26.44
30	70.47	39.34	30.77	26.7
Average	71.96	40.26	30.81	27.81
STDEV	1.55	0.57	0.34	1.34
CV(%)	2.16	1.41	1.09	4.80

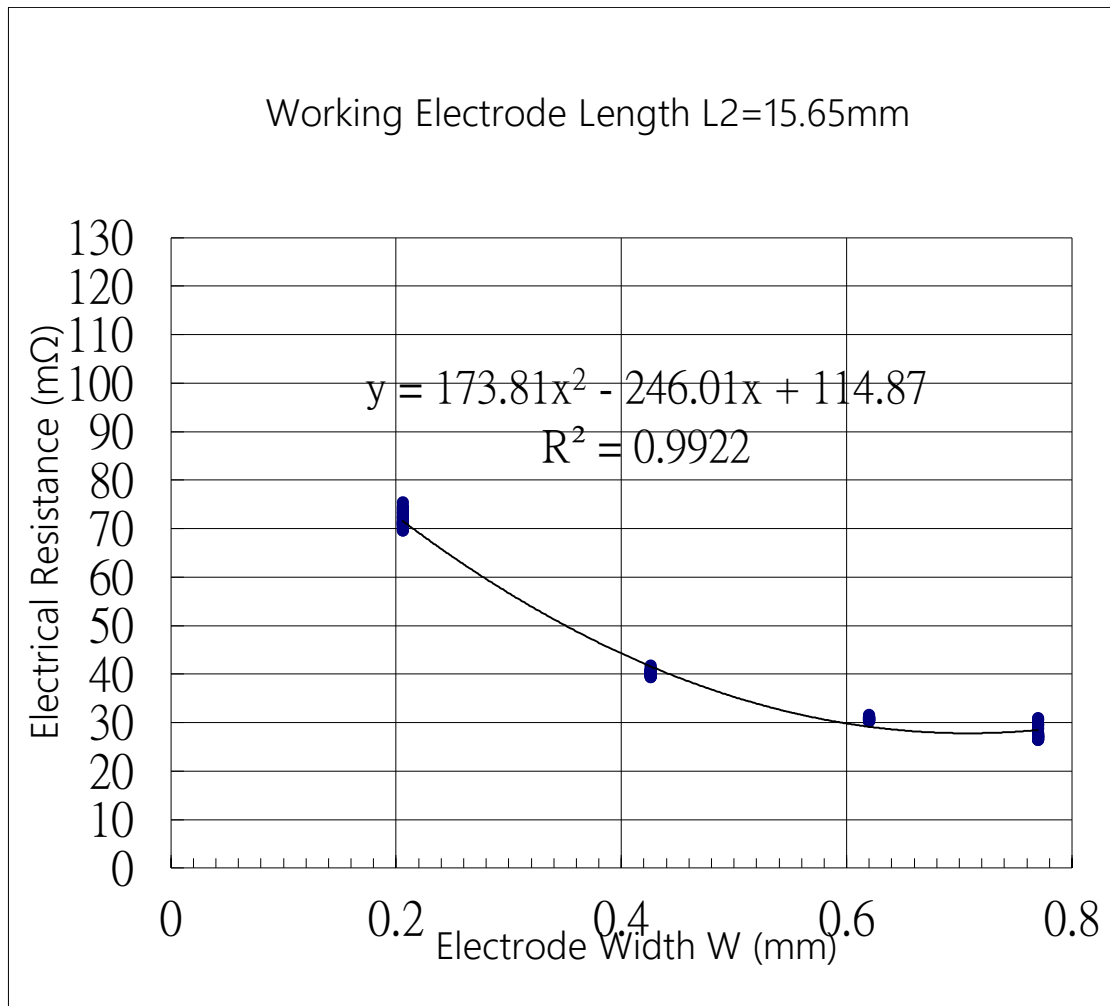


Fig.12 shows the electrical resistance for different working electrode width when the electrode length is 15.65mm.

Table H3 shows the electrical resistance for different working electrode width of the 0.206mm, 0.426mm, 0.62mm, and 0.77mm, when the electrode length is 11.05mm. (Unit: :mΩ)

Test Strip No.	Electrode Width W= 0.206mm	Electrode Width W= 0.426mm	Electrode Width W= 0.62mm	Electrode Width W= 0.77mm
1	48.51	28.25	23.58	20.72
2	48.42	29.35	23.36	20.09
3	48.41	28.5	22.85	19.61
4	47.37	29.8	22.42	19.61
5	47.97	28.41	22.75	18.87
6	48.65	28.64	23.54	20.86
7	47.38	29.47	22.01	20.72
8	46.2	29.54	24.26	20.82
9	49.36	27.81	24	20.72
10	47.44	28.78	23.71	20.33

11	46.83	28.07	22.95	20.92
12	48.27	29.87	22.73	20.25
13	46.69	28.04	23.38	21.28
14	47.75	27.88	23.27	20.35
15	47.54	29.62	25.24	20.1
16	46.75	27.89	23.63	20.25
17	45.62	28.67	23.14	19.71
18	46.76	28.54	22.5	20.1
19	47.09	27.84	22.48	21.05
20	48.59	29.54	23.38	20.27
21	45.55	27.61	23.05	21.09
22	48.44	29.43	22.68	20.75
23	46.87	29.22	22.59	21.81
24	47.1	29.17	22.91	20.87
25	47.65	27.2	23.32	20.57
26	47.44	28.21	21.53	21.88
27	47.13	28.87	22.68	20.63
28	47.65	29.12	21.46	20.77
29	48.38	27.54	21.63	20.54
30	46.3	27.07	21.65	21.35
Average	47.47	28.60	22.96	20.56
STDEV	0.92	0.80	0.84	0.64
CV(%)	1.95	2.79	3.64	3.12

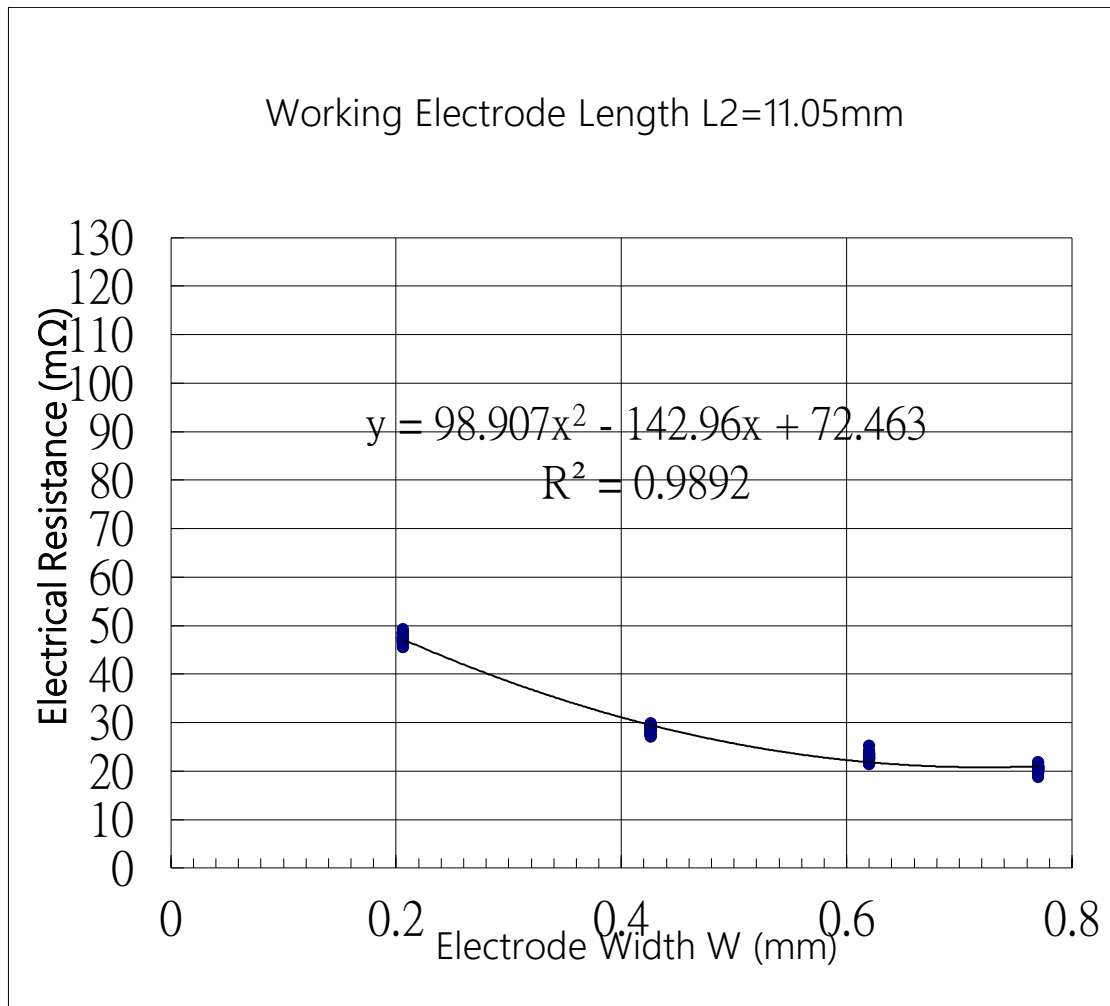


Fig.I3 shows the electrical resistance for different working electrode width when the electrode length is 11.05mm.

Table H4 shows the electrical resistance for different working electrode width of the 0.206mm, 0.426mm, 0.62mm, and 0.77mm, when the electrode length is 7.15mm. (Unit: :mΩ)

Test Strip No.	Electrode Width W= 0.206mm	Electrode Width W= 0.426mm	Electrode Width W= 0.62mm	Electrode Width W= 0.77mm
1	25.35	16.83	15.3	15.51
2	24.28	16.81	14.71	14.32
3	24.12	17.19	14.63	15.03
4	24.28	16.74	14.59	14.86
5	23.91	16.53	15.41	15.03
6	24.17	16.81	14.45	15.28
7	23.63	16.46	14.4	15.11
8	23.42	16.87	14.65	14.68
9	23.85	16.73	13.76	15.51
10	23.91	16.21	14.36	14.46
11	24.7	16.96	14.44	13.35
12	23.86	16.8	14.62	13.62
13	23.87	16.48	14.58	13.52

14	24.48	16.63	14.13	13.42
15	23.9	16.79	13.91	13.95
16	23.59	16.6	14.26	13.96
17	24.1	16.69	14.15	13.07
18	23.83	16.91	14.07	13.14
19	23.97	16.73	13.97	13.22
20	24.26	16.58	14.02	13.23
21	24.59	16.69	14.16	13.18
22	25.81	16.33	13.73	13.15
23	25.59	16.35	14.08	13.49
24	24.94	16.55	14.1	13.14
25	25.41	16.13	14.03	13.38
26	24.08	16.69	14.23	13.16
27	23.94	16.4	14.15	13.31
28	24.18	16.25	13.9	13.48
29	24.28	16.28	14.25	13.08
30	25.13	16.51	13.56	12.92
Average	24.31	16.62	14.29	13.89
STDEV	0.62	0.25	0.41	0.85
CV(%)	2.54	1.48	2.89	6.11

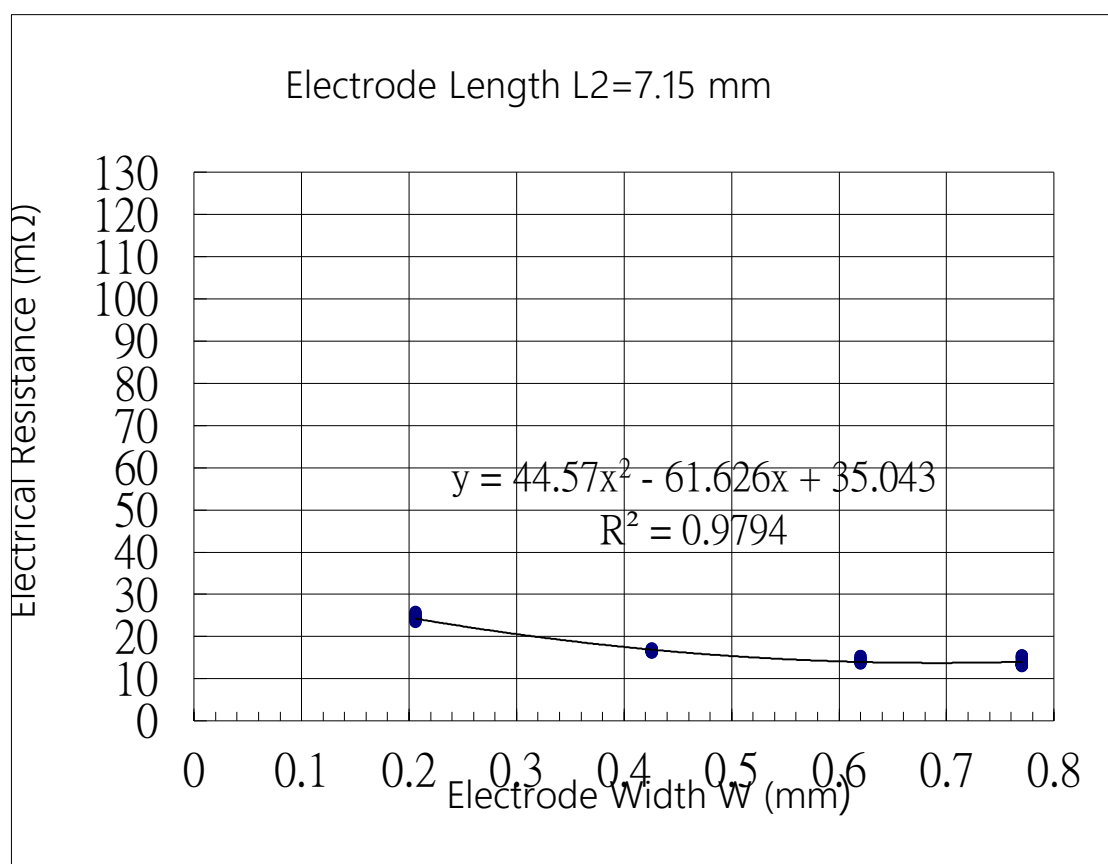


Fig.14 shows the electrical resistance for different working electrode width when the electrode length is 7.15mm.

(6) Sixth Reference Data

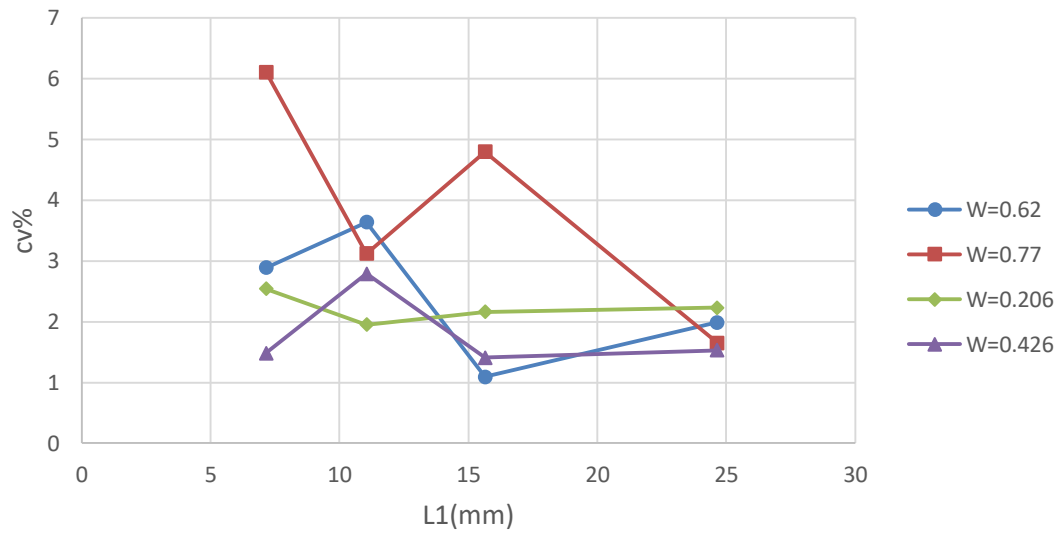


Fig.10 CV in electrical resistance against working electrode length for different working electrode width.

This Fig.10 in the submitted paper was obtained from the following Tables J1 which is the summary of Table H1 to H4.

Table J1 CV on electrical resistance for reference electrodes with various length and width. (Unit: %).

	L1= 7.15mm	L1= 11.05mm	L1= 15.65mm	L1= 24.65mm
CV (W=0.206mm)	2.54	1.95	2.16	2.23
CV (W=0.426mm)	1.48	2.79	1.41	1.53
CV (W=0.62mm)	2.89	3.64	1.09	1.97
CV (W=0.77mm)	6.11	3.12	4.80	1.65

(7) Seventh Reference Data

Table 3 Control solution test results from 3 lots of test strips with same electrode length but different electrode width W. (Unit: mg/dL).

Length= 24 & 24.65mm; Width= 0.206mm	Average	73.8	184.1	232	325.6	410.1	551
	Standard Deviation	1.90	7.11	5.36	11.06	7.94	12.69
	CV (%)	2.58	3.86	2.31	3.40	1.94	2.30
	YSI	74	185	233	326	411	548
Length= 24 & 24.65mm; Width= 0.77mm	Average	75.6	191.4	239.2	333.0	420.3	565.5
	Standard Deviation	1.74	7.29	5.49	10.36	6.93	13.21
	CV (%)	2.30	3.81	2.30	3.11	1.65	2.34
	YSI	74	185	233	326	411	548

This Table 3 in the submitted paper was obtained from the following Tables K1 and K2.

Table K1 Control solution test results for reference electrode length of 24mm and working electrode length of 24.65mm. W=0.206mm. (Unit: mg/dL)

Lot No.	No.	Control solution test results					
1	1	71	178	223	308	406	554
1	2	77	196	237	311	397	572
1	3	75	185	237	328	414	533
1	4	75	182	229	323	409	533
1	5	76	194	229	312	410	566
1	6	74	180	223	320	419	561
1	7	71	183	224	326	398	545
1	8	77	184	241	337	417	561
1	9	75	191	234	320	405	529
1	10	75	189	233	342	416	550
1	11	71	187	240	310	416	556
1	12	71	174	226	344	407	550
1	13	72	173	239	336	411	554
1	14	73	188	235	311	407	554
1	15	73	191	233	334	406	532
1	16	77	175	241	343	400	528
1	17	73	173	231	318	421	550
1	18	75	174	225	323	402	552

1	19	73	188	241	324	424	542
1	20	75	176	230	334	407	544
1	21	77	187	226	336	407	568
1	22	71	187	229	317	401	561
1	23	74	189	232	336	411	545
1	24	72	183	231	339	405	529
1	25	76	188	223	338	397	567
2	1	72	173	239	327	418	560
2	2	74	179	231	314	402	549
2	3	77	182	235	315	418	575
2	4	77	173	234	315	411	541
2	5	74	179	230	319	404	544
2	6	71	174	233	330	420	572
2	7	73	177	233	339	417	538
2	8	76	191	229	325	420	567
2	9	74	192	234	328	420	538
2	10	71	176	232	319	400	554
2	11	74	195	234	310	406	540
2	12	74	175	228	320	420	544
2	13	75	196	225	329	404	567
2	14	73	178	232	331	408	537
2	15	71	186	235	318	412	540
2	16	71	183	238	322	424	539
2	17	71	182	241	341	403	529
2	18	71	180	232	327	406	548
2	19	77	177	238	342	421	548
2	20	74	181	227	320	419	552
2	21	76	194	224	310	423	570
2	22	74	183	235	320	400	549
2	23	72	196	227	341	401	557
2	24	75	174	239	333	399	546
2	25	73	191	236	336	412	539
3	1	71	176	226	316	403	557
3	2	75	177	234	338	412	563
3	3	72	191	225	341	405	545
3	4	75	194	231	324	410	544
3	5	72	196	231	340	397	546

3	6	76	184	231	310	422	532
3	7	74	197	239	329	404	565
3	8	77	190	224	311	399	564
3	9	73	188	235	326	413	571
3	10	72	182	229	341	423	557
3	11	73	180	223	328	420	573
3	12	74	188	234	344	410	556
3	13	75	194	224	330	420	534
3	14	75	183	229	311	398	563
3	15	76	184	235	310	413	568
3	16	76	175	235	330	414	554
3	17	75	186	232	316	405	558
3	18	72	186	236	312	417	547
3	19	73	188	234	324	416	567
3	20	74	195	223	343	412	542
3	21	75	178	241	323	408	529
3	22	73	189	233	313	424	564
3	23	72	189	226	314	408	556
3	24	74	176	234	309	404	552
3	25	73	182	243	339	402	544
	Average	73.8	184.1	232	325.6	410.1	551
	Standard Deviation	1.90	7.11	5.36	11.06	7.94	12.69
	CV (%)	2.58	3.86	2.31	3.40	1.94	2.30
	YSI	74	185	233	326	411	548

Table K2 Control solution test results for reference electrode length of 24mm and working electrode length of 24.65mm. W=0.77mm. (Unit: mg/dL)

Lot No.	No.	Control solution test results					
1	1	76	200	233	320	412	543
1	2	75	186	233	334	426	543
1	3	78	187	247	336	422	580
1	4	78	200	237	343	432	565
1	5	74	181	236	332	422	543
1	6	76	199	242	323	415	571
1	7	75	196	236	327	423	563

1	8	76	192	235	327	421	565
1	9	76	183	243	343	426	560
1	10	73	196	248	318	423	576
1	11	77	196	233	321	419	551
1	12	75	200	243	339	415	547
1	13	78	195	239	337	412	550
1	14	76	178	247	318	431	557
1	15	75	181	242	323	412	549
1	16	78	180	246	334	425	586
1	17	73	201	236	328	429	581
1	18	73	181	244	342	415	567
1	19	78	194	232	351	423	584
1	20	77	194	237	334	422	557
1	21	75	199	232	339	412	567
1	22	75	181	237	334	423	551
1	23	75	196	247	326	416	548
1	24	78	180	246	346	431	560
1	25	74	183	239	327	432	584
2	1	74	194	236	323	410	577
2	2	73	180	235	341	414	580
2	3	78	180	238	319	419	554
2	4	76	188	241	325	421	559
2	5	77	187	244	350	427	572
2	6	76	196	238	320	427	585
2	7	73	199	232	345	432	545
2	8	74	193	248	336	421	555
2	9	78	192	248	324	432	547
2	10	77	199	245	318	422	564
2	11	76	183	236	329	428	585
2	12	78	198	236	351	413	585
2	13	74	194	243	330	429	586
2	14	76	189	245	337	409	573
2	15	76	180	242	343	418	547
2	16	77	193	234	334	415	551
2	17	78	178	230	345	419	579
2	18	74	185	242	332	412	562
2	19	74	178	240	339	420	562

2	20	75	188	236	320	420	568
2	21	73	201	247	336	431	571
2	22	74	182	233	322	424	583
2	23	74	191	232	339	427	558
2	24	78	200	246	347	411	572
2	25	74	196	233	338	420	572
3	1	75	190	247	319	416	543
3	2	73	193	241	336	424	572
3	3	78	201	243	350	414	560
3	4	73	191	243	325	415	574
3	5	78	197	232	342	415	560
3	6	78	199	247	339	417	568
3	7	76	187	246	322	422	559
3	8	77	194	230	334	409	579
3	9	73	198	234	337	415	581
3	10	73	200	247	347	431	550
3	11	76	200	243	317	421	558
3	12	76	194	234	326	426	549
3	13	77	193	231	351	411	557
3	14	75	190	239	333	422	578
3	15	78	192	234	324	427	563
3	16	76	201	233	346	420	548
3	17	77	188	241	346	412	583
3	18	75	187	242	323	410	585
3	19	76	185	241	321	409	573
3	20	74	199	233	350	431	561
3	21	74	182	237	338	421	581
3	22	78	201	237	324	411	575
3	23	74	197	238	318	432	566
3	24	73	201	247	317	418	574
3	25	77	191	231	347	413	579
	Average	75.6	191.4	239.2	333.0	420.3	565.5
	Standard Deviation	1.74	7.29	5.49	10.36	6.93	13.21
	CV (%)	2.30	3.81	2.30	3.11	1.65	2.34
	YSI	74	185	233	326	411	548

(8) The Eight Reference Data

Table 4 Control solution test results from 3 lots of test strips for different electrode length but same electrode width. (Unit: mg/dL).

Length= 6.5 & 7.15mm; Width= 0.206mm	Average	76.1	191.2	240.2	335.9	423.8	572.8
	Standard Deviation	2.12	5.82	5.12	10.24	6.74	11.29
	CV (%)	2.79	3.05	2.13	3.05	1.59	1.97
	YSI	74	185	233	326	411	548
Length= 24 & 24.65mm; Width= 0.206mm	Average	72.8	183.8	238.9	333.9	415.4	557.6
	Standard Deviation	1.80	4.95	5.27	8.30	6.25	11.38
	CV (%)	2.47	2.70	2.21	2.49	1.50	2.04
	YSI	74	185	233	326	411	548

This Table 4 in the submitted paper was obtained from the following Tables L1 and L2.

Table L1 Control solution test results for reference electrode length of 6.5mm and working electrode length of 7.15mm, W=0.206mm. (Unit: mg/dL)

Lot No.	No.	Control solution test results					
1	1	76	191	234	325	435	569
1	2	78	200	240	346	424	582
1	3	77	193	240	341	420	583
1	4	79	185	244	332	433	584
1	5	76	186	248	343	419	563
1	6	78	193	233	333	416	553
1	7	77	182	247	322	415	579
1	8	76	195	246	325	420	589
1	9	75	191	248	332	419	581
1	10	73	199	247	337	421	583
1	11	73	197	243	321	421	588
1	12	73	189	233	338	427	570
1	13	73	197	234	339	423	567
1	14	79	183	237	350	419	561
1	15	78	186	249	341	425	567
1	16	73	186	244	330	421	575

1	17	78	185	235	322	420	574
1	18	73	184	241	322	419	562
1	19	77	190	241	342	432	590
1	20	77	198	243	349	427	586
1	21	73	183	238	329	427	566
1	22	73	190	234	331	431	587
1	23	75	184	234	351	425	590
1	24	77	199	244	348	416	558
1	25	76	182	239	324	424	587
2	1	73	201	237	335	433	580
2	2	78	198	238	324	423	576
2	3	78	188	247	331	418	576
2	4	76	183	238	321	416	567
2	5	76	195	234	348	416	588
2	6	77	186	241	323	434	582
2	7	77	200	249	345	427	555
2	8	78	196	240	350	414	579
2	9	75	198	249	331	434	580
2	10	79	195	242	351	433	563
2	11	75	183	238	351	430	561
2	12	77	183	237	324	426	553
2	13	76	197	242	339	419	554
2	14	73	187	247	328	425	578
2	15	78	194	238	349	415	582
2	16	73	186	240	334	415	565
2	17	79	190	233	341	424	578
2	18	73	189	237	330	415	571
2	19	78	188	242	339	431	569
2	20	76	197	242	325	419	574
2	21	73	189	246	330	432	568
2	22	78	199	244	335	433	590
2	23	73	196	236	353	426	569
2	24	75	186	236	348	430	570
2	25	76	182	237	349	414	579
3	1	73	186	238	322	433	566
3	2	76	200	247	331	420	562
3	3	79	191	248	348	430	558

3	4	79	194	247	336	414	587
3	5	77	199	246	321	427	570
3	6	73	193	233	329	414	583
3	7	73	191	234	341	432	587
3	8	79	190	241	325	415	563
3	9	75	200	239	346	417	557
3	10	79	181	243	322	431	565
3	11	73	193	235	341	420	578
3	12	77	198	236	346	423	590
3	13	77	199	240	351	434	562
3	14	78	184	245	352	431	553
3	15	73	195	234	325	417	572
3	16	79	185	233	321	435	554
3	17	77	199	241	334	415	574
3	18	78	190	235	346	414	559
3	19	75	187	249	334	427	586
3	20	77	190	246	335	417	551
3	21	78	196	234	350	433	575
3	22	78	193	237	321	424	563
3	23	76	188	233	346	425	578
3	24	75	194	244	327	421	584
3	25	78	188	233	338	433	585
	Average	76.1	191.2	240.2	335.9	423.8	572.8
	Standard Deviation	2.12	5.82	5.12	10.24	6.74	11.29
	CV (%)	2.79	3.05	2.13	3.05	1.59	1.97
	YSI	74	185	233	326	411	548

Table L2 Control solution test results for reference electrode length of 24mm and working electrode length of 24.65mm. W=0.206mm.

(Unit: mg/dL)

Lot No.	No.	Control solution test results					
1	1	72	181	246	333	417	551
1	2	73	176	240	334	411	547
1	3	74	182	230	320	411	565
1	4	70	184	237	337	415	575
1	5	72	192	243	333	409	553

1	6	73	192	241	336	414	553
1	7	71	190	235	334	422	563
1	8	70	185	245	331	413	543
1	9	72	182	230	339	416	576
1	10	74	180	236	344	423	546
1	11	74	190	237	341	411	555
1	12	75	182	237	320	404	549
1	13	74	188	244	340	417	539
1	14	72	186	241	335	406	548
1	15	73	176	247	342	414	566
1	16	71	178	246	342	422	550
1	17	73	186	232	339	418	559
1	18	74	183	236	344	420	556
1	19	75	184	234	330	424	566
1	20	73	179	233	320	422	558
1	21	75	183	239	339	405	557
1	22	75	177	234	340	421	551
1	23	73	176	246	344	418	572
1	24	75	187	247	322	413	539
1	25	70	180	243	334	404	551
2	1	75	177	244	327	424	558
2	2	71	183	247	330	409	576
2	3	71	178	241	346	412	544
2	4	75	190	245	317	407	577
2	5	72	183	240	341	415	562
2	6	73	187	246	324	408	546
2	7	71	189	232	327	421	571
2	8	73	184	247	333	420	573
2	9	75	190	247	329	411	571
2	10	75	179	239	322	424	539
2	11	70	188	247	329	422	558
2	12	74	177	231	325	424	556
2	13	74	184	237	344	424	539
2	14	75	188	238	335	424	545
2	15	72	192	245	340	413	553
2	16	75	181	235	338	404	571
2	17	71	191	237	320	409	570

2	18	73	180	236	334	408	548
2	19	73	191	240	317	418	560
2	20	70	189	233	333	415	574
2	21	75	188	231	335	423	569
2	22	72	179	242	331	419	576
2	23	74	176	244	347	420	565
2	24	75	178	238	341	414	542
2	25	71	183	240	332	419	548
3	1	75	186	237	328	411	559
3	2	75	185	232	336	411	570
3	3	72	185	236	330	415	540
3	4	75	181	231	342	422	557
3	5	72	189	243	334	420	542
3	6	71	178	235	344	418	543
3	7	70	183	239	329	412	560
3	8	70	190	240	347	406	573
3	9	74	185	233	345	409	563
3	10	74	192	233	343	404	550
3	11	72	179	243	342	410	546
3	12	74	184	233	333	419	576
3	13	71	184	240	332	408	543
3	14	70	188	247	338	417	560
3	15	75	192	238	317	411	553
3	16	71	175	245	321	424	565
3	17	71	180	235	317	420	569
3	18	70	178	232	340	422	560
3	19	75	184	244	338	405	562
3	20	70	191	234	344	424	550
3	21	73	188	233	341	411	551
3	22	74	180	246	324	424	544
3	23	75	177	233	326	422	567
3	24	72	179	236	339	420	573
3	25	70	186	235	339	415	566
	Average	72.8	183.8	238.9	333.9	415.4	557.6
	Standard Deviation	1.80	4.95	5.27	8.30	6.25	11.38
	CV (%)	2.47	2.70	2.21	2.49	1.50	2.04
	YSI	74	185	233	326	411	548

(9)The Nine Reference Data

Table 5 Control solution test results for different electrode width but same electrode length. (Unit: mg/dL).

Length= 24 & 24.65mm; Width= 0.62mm	Average	73.2	185.6	233.7	329.6	409.7	544.4
	Standard Deviation	3.34	5.55	7.30	11.47	7.65	12.10
	CV (%)	4.57	2.99	3.12	3.48	1.87	2.22
	YSI	74	185	233	326	411	548
Length= 10.5 & 11.05mm; Width= 0.206mm	Average	73.7	182.5	230.4	327.7	412.7	547.6
	Standard Deviation	3.73	4.61	7.18	11.12	10.28	12.24
	CV (%)	5.05	2.53	3.11	3.39	2.49	2.24
	YSI	74	185	233	326	411	548

This Table 5 in the submitted paper was obtained from the following Tables M1 and M2.

Table M1 Control solution test results for reference electrode length of 24mm and working electrode length of 24.65mm. W=0.62mm. (Unit: mg/dL)

No.	Control solution test results					
1	69	181	237	340	411	552
2	71	195	241	321	413	548
3	73	184	242	333	412	541
4	79	187	240	343	404	559
5	72	181	226	344	407	547
6	69	184	226	331	423	541
7	69	188	224	332	403	540
8	76	185	222	343	406	532
9	71	178	234	339	400	528
10	77	178	228	336	399	539
11	71	193	241	323	422	561
12	76	181	240	339	398	540
13	79	191	233	310	397	559
14	76	187	237	317	413	542
15	76	189	222	337	413	529
16	71	178	242	329	410	559
17	70	193	228	340	416	531
18	79	186	223	332	414	533

19	76	184	235	331	422	562
20	69	176	241	310	417	529
21	72	183	236	320	412	566
22	71	187	245	345	402	556
23	74	195	226	317	414	527
24	71	193	238	310	401	543
25	73	184	235	317	413	546
Average	73.2	185.64	233.68	329.56	409.68	544.4
Standard Deviation	3.34	5.55	7.30	11.47	7.65	12.10
CV (%)	4.57	2.99	3.12	3.48	1.87	2.22
YSI	74	185	233	326	411	548

Table M2 Control solution test results for reference electrode length of 10.4mm and working electrode length of 11.05mm. W=0.206mm. (Unit: mg/dL)

No.	Control solution test results					
1	72	175	220	343	424	556
2	69	181	239	336	402	539
3	72	180	243	341	416	539
4	77	183	223	312	409	532
5	78	179	220	314	424	541
6	79	186	236	340	400	560
7	76	188	222	312	424	564
8	69	186	237	324	414	543
9	70	177	232	326	408	560
10	77	183	220	323	415	525
11	77	185	236	336	398	547
12	69	179	223	317	398	526
13	69	187	238	326	408	555
14	71	182	225	315	425	561
15	71	179	227	330	409	552
16	74	187	223	327	399	534
17	72	177	229	312	423	537
18	79	181	228	325	424	552
19	77	175	234	345	409	563
20	79	185	241	334	421	530
21	71	185	227	316	421	546
22	76	180	232	343	403	557

23	69	191	231	332	396	558
24	78	192	238	321	424	561
25	72	180	236	343	424	552
Average	73.72	182.52	230.4	327.72	412.72	547.6
Standard Deviation	3.73	4.61	7.18	11.12	10.28	12.24
CV (%)	5.05	2.53	3.11	3.39	2.49	2.24
YSI	74	185	233	326	411	548