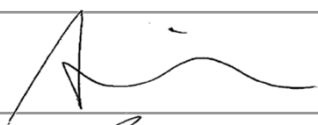




Product/Process Change Notification

PCN#	Effective Date	Issue Date
2018-05-04C-01	2018/8/4	2018/5/4
PCN Classification	Product Category	
Major	Schottky	
Subject		
Production process change from lead free to halogen free.		
Affected Product(s)		
SOD-123 Package of Schottky, Such as attachments.		
Description of Change(s)		
To meet EU environment requirement, we implement halogen free to our products.		
Content of Change(s)		
Adding "-C" to each part number.		
Impact(s)		
N/A		
Attachment(s)		
Reliability report. SGS report.		

Approval		
Issue by	Alice Lai	e-mail: alice@secosgmbh.com
Development Engineer		Alice Lai
QA Manager		Peter Yang
General Manger		Mathew Liu

For more information, please contact us directly or visit our website <http://www.secosgmbh.com>

Affected Product(s)

SCS0520P	SCS130P
SCS0530P	SCS140P
SCS0540P	SCS160P
SCS0560P	SCS1100P
SCS05100P	SCS1200P
SCS120P	SCS220P~SCS240P



Reliability Testing Summary Report

Date: 2018/04/30

Document No.: SL18 -04- 140P

Test Item	P/N	Test Condition	(LTPD)	Sample Numbers	Allow Fall Numbers	Fall Numbers	Result
HTRB High Temp Reverse Bias	SCS140P-C	100 ± 5°C, 80% VR, T = 1000hrs		77	0	0	ACC
HTSL High Temperature Storage Life	SCS140P-C	150°C, T = 1000 hrs		77	0	0	ACC
PCT Pressure Cooker Test	SCS140P-C	121°C, 29.7PSIG, 168 hrs		77	0	0	ACC
TCT Temperature Cycle Test	SCS140P-C	-55°C/30min, 150°C/30min, For 1000 Cycle		77	0	0	ACC
THT High Temperature High Humidity Test	SCS140P-C	85 ± 2°C, RH=85±5%, 1000 hrs		77	0	0	ACC
H3TRB High Temper High Humidity Reverse Bies Test	SCS140P-C	85 ± 2°C, RH=85±5%, 80% VR, 1000 hrs		77	0	0	ACC
Solderability	SCS140P-C	245 ± 5°C, 5Sec the inspected area of each lead must have 95% solder coverage minimum		10	0	0	ACC

Judgment:

qualified unqualified

Testing Start Date: 2018.03.05 Testing End Date: 2018.04.30

Tester: King Huang Approval: Peter Yang



Electrical Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 25°C

Test Date: 2018.03.05

Test Standard : Specifications

Operator: Leo Hsia

Test Result: PASS

No	VF	VB	IR
1	468.5mV	54.80V	22.62uA
2	471.0mV	54.82V	24.92uA
3	470.0mV	54.95V	24.89uA
4	471.8mV	54.59V	22.04uA
5	470.7mV	55.26V	20.52uA
6	470.4mV	54.76V	22.17uA
7	471.2mV	54.83V	23.92uA
8	472.9mV	55.17V	21.16uA
9	472.5mV	54.70V	23.37uA
10	470.4mV	55.10V	20.17uA
11	471.5mV	55.00V	20.00uA
12	472.1mV	55.24V	21.89uA
13	470.7mV	54.53V	20.28uA
14	469.3mV	54.61V	22.93uA
15	470.6mV	54.95V	21.25uA
16	469.2mV	55.16V	21.93uA
17	470.4mV	54.66V	19.43uA
18	469.9mV	54.62V	22.86uA
19	470.2mV	55.04V	21.09uA
20	471.7mV	55.09V	21.73uA
21	470.9mV	54.41V	24.41uA
22	472.7mV	54.41V	22.45uA
23	470.6mV	54.78V	23.70uA
24	469.1mV	54.56V	23.72uA
25	472.4mV	55.22V	21.28uA
26	468.9mV	54.57V	23.38uA
27	470.2mV	55.07V	19.99uA
28	471.6mV	55.19V	22.39uA
29	467.9mV	54.94V	23.74uA
30	469.5mV	54.97V	24.61uA
31	473.4mV	54.59V	25.07uA



Electrical Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 25°C

Test Date: 2018.03.05

Test Standard : Specifications

Operator: Leo Hsia

Test Result: PASS

No	VF	VB	IR
32	473.9mV	54.78V	21.41uA
33	469.2mV	54.42V	19.58uA
34	469.9mV	54.73V	23.98uA
35	471.0mV	54.78V	23.87uA
36	469.8mV	54.58V	19.65uA
37	469.0mV	54.51V	19.51uA
38	467.4mV	55.03V	21.72uA
39	468.8mV	54.90V	19.95uA
40	471.9mV	54.80V	19.75uA
41	472.7mV	55.10V	19.77uA
42	470.6mV	54.70V	22.66uA
43	469.2mV	54.99V	21.92uA
44	467.5mV	54.85V	19.98uA
45	473.1mV	54.49V	24.05uA
46	471.8mV	54.83V	20.51uA
47	467.9mV	54.85V	22.10uA
48	467.3mV	54.71V	23.45uA
49	468.9mV	54.60V	23.41uA
50	473.9mV	54.72V	19.82uA
51	468.0mV	54.99V	24.75uA
52	467.7mV	54.48V	21.66uA
53	467.6mV	55.24V	20.53uA
54	473.7mV	54.91V	24.62uA
55	468.1mV	54.95V	21.31uA
56	467.8mV	54.70V	24.58uA
57	469.4mV	54.52V	20.58uA
58	472.8mV	54.43V	21.91uA
59	472.6mV	54.69V	21.41uA
60	471.5mV	54.37V	21.38uA
61	473.0mV	54.93V	23.75uA
62	469.4mV	54.45V	22.83uA



Electrical Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 25°C

Test Date: 2018.03.05

Test Standard : Specifications

Operator: Leo Hsia

Test Result: PASS

No	VF	VB	IR
63	467.8mV	54.33V	19.88uA
64	472.5mV	54.42V	20.40uA
65	471.5mV	54.52V	24.42uA
66	471.3mV	54.64V	24.06uA
67	468.3mV	54.88V	22.48uA
68	469.0mV	55.16V	22.36uA
69	471.2mV	54.94V	19.73uA
70	468.4mV	54.72V	20.51uA
71	468.9mV	54.47V	20.45uA
72	469.6mV	54.80V	23.92uA
73	473.2mV	54.64V	22.65uA
74	471.8mV	54.39V	22.67uA
75	467.2mV	55.02V	24.55uA
76	469.3mV	54.74V	20.07uA
77	473.3mV	54.42V	22.80uA

Made By: King Huang

Approval: Peter Yang



High Temperature Reverse Bias Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 100 ± 5°C, 80% VR, T = 1000 hrs

Test Date: 2018.03.06 ~ 2018.04.18

Test Standard : JESD22 STANDARD Method-A108

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
1	470.1mV	54.60V	23.58uA	468.5mV	54.41V	21.72uA
2	473.1mV	55.23V	20.48uA	473.6mV	54.68V	21.26uA
3	471.2mV	54.63V	19.71uA	470.5mV	54.65V	22.46uA
4	473.3mV	54.87V	24.13uA	472.0mV	54.84V	22.07uA
5	467.7mV	54.99V	22.16uA	467.1mV	54.41V	24.45uA
6	468.6mV	54.86V	22.30uA	469.6mV	55.19V	23.59uA
7	468.7mV	54.78V	24.21uA	471.4mV	54.93V	19.62uA
8	472.4mV	55.05V	24.26uA	470.0mV	55.12V	21.16uA
9	473.2mV	55.22V	21.46uA	468.0mV	54.31V	22.81uA
10	467.3mV	54.31V	24.33uA	471.6mV	54.70V	20.70uA
11	470.1mV	55.18V	22.51uA	473.4mV	54.96V	22.58uA
12	471.0mV	55.07V	20.73uA	472.8mV	54.79V	23.45uA
13	469.9mV	54.90V	24.97uA	467.1mV	55.25V	23.64uA
14	468.4mV	54.93V	20.72uA	471.3mV	54.98V	21.40uA
15	472.1mV	54.80V	25.17uA	468.0mV	54.84V	19.89uA
16	470.2mV	54.82V	22.96uA	467.9mV	54.80V	23.77uA
17	468.0mV	55.16V	23.69uA	472.1mV	54.83V	24.52uA
18	469.5mV	54.79V	21.60uA	469.0mV	55.00V	21.66uA
19	467.7mV	55.17V	23.36uA	469.4mV	54.77V	22.66uA
20	471.4mV	54.61V	23.36uA	469.6mV	55.16V	24.41uA
21	473.8mV	54.83V	22.32uA	471.8mV	54.70V	20.98uA
22	473.9mV	55.00V	21.36uA	470.3mV	54.44V	24.46uA
23	471.4mV	54.73V	22.40uA	467.6mV	55.17V	21.42uA
24	469.2mV	55.07V	20.26uA	473.7mV	54.92V	21.60uA
25	473.5mV	54.95V	23.86uA	469.8mV	54.45V	21.77uA
26	474.0mV	54.99V	23.96uA	472.3mV	54.87V	23.87uA
27	472.0mV	54.61V	21.41uA	472.6mV	54.58V	19.68uA
28	471.6mV	54.59V	23.84uA	473.5mV	55.24V	20.32uA
29	473.7mV	54.44V	24.11uA	467.5mV	54.47V	23.70uA
30	470.7mV	55.00V	21.12uA	471.7mV	54.51V	19.69uA



High Temperature Reverse Bias Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 100 ± 5°C, 80% VR, T = 1000 hrs

Test Date: 2018.03.06 ~ 2018.04.18

Test Standard : JESD22 STANDARD Method-A108

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
31	468.7mV	54.67V	20.67uA	472.9mV	55.10V	20.95uA
32	470.1mV	54.81V	20.85uA	469.8mV	55.09V	20.14uA
33	473.7mV	54.82V	21.81uA	472.8mV	54.75V	21.65uA
34	469.3mV	54.62V	19.31uA	468.4mV	54.57V	22.59uA
35	469.4mV	54.49V	22.04uA	471.2mV	55.01V	20.01uA
36	467.1mV	54.71V	23.23uA	469.0mV	55.05V	21.56uA
37	473.5mV	54.94V	22.16uA	469.6mV	55.15V	22.12uA
38	470.2mV	54.62V	20.34uA	468.8mV	54.78V	25.13uA
39	467.9mV	54.52V	24.18uA	469.2mV	54.95V	24.00uA
40	467.9mV	54.35V	23.23uA	472.5mV	54.37V	23.82uA
41	467.3mV	54.91V	22.79uA	471.9mV	54.33V	23.00uA
42	473.5mV	55.27V	24.80uA	473.9mV	54.59V	21.40uA
43	473.1mV	55.19V	19.70uA	471.9mV	55.10V	19.65uA
44	467.8mV	55.09V	19.42uA	468.6mV	54.55V	22.93uA
45	471.7mV	54.62V	21.46uA	472.4mV	54.51V	20.40uA
46	471.8mV	55.21V	21.59uA	467.7mV	55.09V	23.89uA
47	472.4mV	55.16V	23.64uA	473.5mV	55.04V	24.71uA
48	467.6mV	54.81V	22.41uA	471.8mV	54.42V	21.09uA
49	471.5mV	54.85V	22.85uA	467.2mV	54.38V	22.81uA
50	468.5mV	54.50V	23.79uA	472.8mV	55.08V	19.25uA
51	467.3mV	54.62V	23.41uA	468.6mV	54.53V	23.08uA
52	472.0mV	54.77V	21.56uA	473.7mV	54.87V	20.22uA
53	468.4mV	54.79V	20.65uA	472.2mV	54.81V	21.96uA
54	468.2mV	55.00V	21.67uA	471.5mV	55.26V	21.99uA
55	472.0mV	55.19V	24.78uA	469.1mV	55.21V	22.38uA
56	470.0mV	55.10V	24.01uA	468.0mV	55.09V	22.67uA
57	470.5mV	54.78V	24.04uA	473.5mV	54.77V	23.19uA
58	471.0mV	54.86V	24.73uA	472.5mV	55.09V	19.46uA
59	472.3mV	54.80V	24.19uA	467.2mV	54.45V	21.22uA
60	469.8mV	54.40V	22.62uA	471.9mV	54.57V	23.67uA



High Temperature Reverse Bias Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 100 ± 5°C, 80% VR, T = 1000 hrs

Test Date: 2018.03.06 ~ 2018.04.18

Test Standard : JESD22 STANDARD Method-A108

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
61	473.1mV	54.69V	23.29uA	471.8mV	54.68V	25.09uA
62	472.7mV	55.00V	21.37uA	472.8mV	54.48V	23.84uA
63	470.5mV	54.71V	19.70uA	468.2mV	55.05V	23.82uA
64	473.6mV	55.14V	22.81uA	472.4mV	54.93V	23.26uA
65	470.8mV	54.99V	24.49uA	472.0mV	54.62V	21.98uA
66	468.8mV	54.57V	24.91uA	471.3mV	54.57V	21.84uA
67	469.6mV	55.15V	25.09uA	468.7mV	54.48V	24.57uA
68	467.7mV	54.91V	21.35uA	473.1mV	54.69V	24.35uA
69	467.0mV	54.99V	20.71uA	471.1mV	54.83V	19.88uA
70	470.1mV	54.77V	23.62uA	469.8mV	55.21V	25.16uA
71	472.2mV	54.96V	22.02uA	470.2mV	54.33V	22.18uA
72	471.7mV	55.12V	24.95uA	468.1mV	54.82V	19.43uA
73	468.1mV	54.44V	20.15uA	468.6mV	55.05V	19.38uA
74	473.0mV	54.87V	24.49uA	468.0mV	54.54V	19.76uA
75	468.9mV	54.98V	22.02uA	470.3mV	54.58V	19.56uA
76	472.1mV	54.69V	20.80uA	468.9mV	54.33V	22.11uA
77	473.7mV	55.17V	23.63uA	468.8mV	55.16V	21.32uA

Made By: King Huang

Approval: Peter Yang



High Temperature Storage Life Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 150°C, 1000Hrs

Test Date: 2018.03.06 ~ 2018.04.18

Test Standard : JESD22 STANDARD Method-A103

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
1	468.4mV	55.13V	19.52uA	472.4mV	54.73V	21.23uA
2	468.5mV	55.07V	24.94uA	472.7mV	55.27V	20.09uA
3	469.1mV	54.51V	24.62uA	468.4mV	55.27V	25.09uA
4	471.0mV	54.43V	23.12uA	470.6mV	54.74V	21.43uA
5	471.0mV	55.18V	23.13uA	470.2mV	54.45V	24.28uA
6	468.9mV	55.04V	22.49uA	470.3mV	54.46V	23.79uA
7	472.9mV	55.20V	19.97uA	468.9mV	55.20V	22.53uA
8	473.8mV	54.37V	22.51uA	473.8mV	54.39V	19.71uA
9	468.6mV	54.77V	21.25uA	473.1mV	55.02V	23.19uA
10	468.6mV	54.44V	21.59uA	472.5mV	55.02V	20.69uA
11	468.4mV	54.80V	22.42uA	469.5mV	54.52V	23.20uA
12	470.6mV	54.73V	20.90uA	468.0mV	55.03V	24.45uA
13	468.2mV	54.91V	19.62uA	471.5mV	54.98V	19.50uA
14	469.2mV	54.37V	23.46uA	469.9mV	54.39V	24.19uA
15	473.5mV	55.16V	21.18uA	470.0mV	55.26V	20.25uA
16	473.1mV	54.41V	20.09uA	470.7mV	54.51V	24.48uA
17	473.5mV	54.77V	21.03uA	472.5mV	54.31V	21.00uA
18	467.6mV	54.96V	20.79uA	467.1mV	54.34V	19.76uA
19	473.1mV	55.26V	20.99uA	468.8mV	54.85V	20.79uA
20	470.7mV	54.38V	24.76uA	469.1mV	54.63V	21.24uA
21	468.4mV	54.46V	22.12uA	468.1mV	54.88V	21.17uA
22	472.4mV	54.95V	24.33uA	472.1mV	55.15V	24.85uA
23	472.7mV	54.51V	21.92uA	468.1mV	54.86V	19.92uA
24	467.8mV	55.11V	21.90uA	471.9mV	55.03V	23.45uA
25	468.3mV	54.85V	23.89uA	470.6mV	54.79V	19.33uA
26	473.6mV	54.48V	23.13uA	468.6mV	54.73V	22.82uA
27	473.6mV	55.04V	19.25uA	469.3mV	54.53V	24.38uA
28	467.4mV	55.08V	23.20uA	473.5mV	55.21V	23.33uA
29	472.3mV	55.01V	24.24uA	470.1mV	54.55V	24.03uA
30	469.6mV	54.68V	22.52uA	469.3mV	54.83V	21.98uA



High Temperature Storage Life Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 150°C, 1000Hrs

Test Date: 2018.03.06 ~ 2018.04.18

Test Standard : JESD22 STANDARD Method-A103

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
31	468.0mV	54.62V	19.89uA	470.3mV	54.50V	23.94uA
32	470.4mV	54.93V	22.50uA	471.4mV	54.75V	23.63uA
33	472.6mV	54.94V	20.23uA	467.9mV	54.85V	20.08uA
34	467.7mV	54.40V	21.80uA	473.6mV	54.46V	22.18uA
35	473.0mV	55.12V	24.89uA	467.7mV	55.04V	21.25uA
36	469.4mV	54.97V	25.00uA	470.3mV	54.94V	22.60uA
37	467.8mV	54.42V	23.43uA	473.0mV	54.91V	23.16uA
38	467.0mV	54.75V	20.73uA	471.1mV	54.55V	20.49uA
39	469.6mV	54.82V	22.57uA	471.5mV	54.41V	25.15uA
40	467.4mV	55.06V	24.07uA	471.9mV	55.00V	24.03uA
41	468.2mV	54.81V	19.26uA	473.7mV	55.03V	22.75uA
42	468.5mV	54.91V	24.76uA	470.2mV	54.76V	24.30uA
43	468.4mV	54.65V	20.60uA	471.8mV	54.41V	24.67uA
44	468.0mV	54.47V	24.65uA	468.0mV	54.75V	22.06uA
45	467.1mV	55.19V	22.63uA	473.5mV	55.09V	21.77uA
46	473.2mV	55.25V	23.17uA	467.6mV	54.83V	21.60uA
47	473.4mV	54.60V	19.29uA	467.8mV	54.46V	25.00uA
48	472.8mV	55.07V	20.07uA	473.6mV	54.66V	24.22uA
49	473.4mV	55.07V	19.75uA	472.3mV	54.88V	21.36uA
50	467.4mV	54.33V	23.97uA	467.4mV	55.03V	20.33uA
51	469.3mV	54.82V	21.51uA	468.8mV	54.87V	22.28uA
52	472.6mV	55.18V	22.52uA	472.8mV	54.85V	20.73uA
53	470.1mV	54.71V	24.54uA	467.8mV	55.06V	24.18uA
54	473.2mV	55.19V	23.87uA	472.4mV	54.90V	22.82uA
55	474.0mV	54.54V	21.58uA	468.0mV	54.31V	25.03uA
56	469.2mV	54.71V	24.53uA	469.8mV	54.40V	21.53uA
57	467.5mV	55.03V	22.42uA	472.2mV	55.04V	21.21uA
58	473.1mV	54.70V	20.51uA	468.6mV	54.61V	22.06uA
59	469.9mV	55.22V	23.25uA	470.2mV	54.74V	22.70uA
60	468.2mV	55.12V	22.71uA	468.0mV	54.81V	20.39uA



High Temperature Storage Life Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 150°C, 1000Hrs

Test Date: 2018.03.06 ~ 2018.04.18

Test Standard : JESD22 STANDARD Method-A103

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
61	473.0mV	54.63V	22.77uA	469.4mV	54.77V	21.88uA
62	470.2mV	54.44V	24.53uA	473.7mV	54.47V	19.24uA
63	469.4mV	54.69V	21.24uA	469.4mV	55.06V	24.86uA
64	469.8mV	55.15V	23.36uA	467.8mV	55.19V	22.02uA
65	467.8mV	55.01V	20.53uA	471.7mV	54.47V	21.59uA
66	468.7mV	54.60V	21.00uA	467.4mV	54.82V	23.13uA
67	470.3mV	54.42V	23.04uA	472.8mV	54.82V	21.86uA
68	473.2mV	55.14V	24.97uA	469.2mV	54.41V	25.09uA
69	467.4mV	54.55V	23.40uA	470.4mV	55.02V	21.34uA
70	472.5mV	55.13V	23.50uA	469.8mV	55.04V	20.08uA
71	470.0mV	54.48V	23.11uA	470.9mV	54.98V	22.58uA
72	472.7mV	54.32V	21.52uA	470.7mV	54.87V	22.49uA
73	468.9mV	55.15V	19.96uA	472.9mV	55.26V	22.43uA
74	470.5mV	55.24V	21.97uA	472.0mV	55.00V	22.49uA
75	470.7mV	54.93V	20.71uA	471.5mV	55.10V	21.61uA
76	473.1mV	55.11V	24.96uA	473.3mV	54.82V	21.30uA
77	467.2mV	54.33V	23.44uA	471.0mV	55.25V	22.36uA

Made By: King Huang

Approval: Peter Yang



SeCoS Corporation

Pressure Cooker Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 121°C, 100%RH, 29.7PSIG, 168Hrs

Test Date: 2018.03.05 ~ 2018.03.13

Test Standard : JESD22 STANDARD Method-A102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
1	467.5mV	54.91V	22.92uA	474.0mV	55.17V	21.81uA
2	471.4mV	54.33V	20.48uA	469.3mV	55.11V	24.01uA
3	472.3mV	54.80V	20.74uA	468.2mV	54.94V	19.42uA
4	469.9mV	54.37V	19.28uA	472.2mV	54.52V	21.96uA
5	470.6mV	54.44V	22.11uA	467.2mV	54.64V	22.13uA
6	473.4mV	54.63V	24.78uA	469.3mV	54.63V	25.01uA
7	470.2mV	54.64V	20.29uA	467.4mV	54.98V	21.22uA
8	470.4mV	54.53V	23.95uA	473.5mV	54.90V	19.96uA
9	473.3mV	54.41V	23.18uA	473.0mV	54.59V	20.88uA
10	472.7mV	55.19V	22.65uA	470.6mV	54.84V	19.53uA
11	473.4mV	55.26V	25.01uA	470.8mV	54.74V	24.24uA
12	472.2mV	55.06V	21.77uA	468.0mV	54.68V	22.54uA
13	471.4mV	54.49V	20.21uA	473.8mV	54.37V	22.00uA
14	472.8mV	54.81V	22.00uA	469.9mV	54.43V	24.55uA
15	471.4mV	54.52V	21.12uA	469.2mV	55.18V	24.70uA
16	469.9mV	54.83V	22.59uA	467.1mV	54.49V	22.64uA
17	470.6mV	55.19V	23.83uA	470.6mV	54.35V	22.15uA
18	467.2mV	54.80V	19.59uA	469.4mV	55.01V	20.24uA
19	467.4mV	54.70V	22.64uA	468.0mV	55.26V	20.45uA
20	473.7mV	54.62V	21.83uA	472.8mV	54.34V	24.39uA
21	467.5mV	54.47V	20.20uA	470.3mV	54.90V	23.81uA
22	472.6mV	54.80V	19.33uA	471.1mV	54.98V	25.14uA
23	470.9mV	55.22V	23.19uA	469.1mV	54.68V	21.34uA
24	471.6mV	54.59V	20.81uA	469.8mV	54.95V	20.46uA
25	471.9mV	54.89V	19.84uA	469.5mV	54.97V	20.66uA
26	467.5mV	54.61V	20.64uA	473.2mV	54.96V	21.80uA
27	469.5mV	55.07V	21.31uA	470.4mV	54.37V	22.41uA
28	472.3mV	55.23V	23.48uA	470.3mV	55.01V	23.49uA
29	468.6mV	55.04V	20.79uA	470.1mV	54.83V	24.69uA
30	473.6mV	54.99V	22.19uA	469.4mV	54.85V	22.61uA



SeCoS Corporation

Pressure Cooker Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 121°C, 100%RH, 29.7PSIG, 168Hrs

Test Date: 2018.03.05 ~ 2018.03.13

Test Standard : JESD22 STANDARD Method-A102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
31	467.5mV	54.99V	22.89uA	471.7mV	55.18V	19.87uA
32	468.6mV	54.45V	22.55uA	467.9mV	54.85V	22.24uA
33	471.1mV	54.66V	23.00uA	467.6mV	54.75V	19.39uA
34	467.9mV	54.84V	22.20uA	473.4mV	54.42V	24.80uA
35	469.0mV	55.07V	23.41uA	468.6mV	54.89V	20.44uA
36	468.4mV	54.49V	24.18uA	468.5mV	55.22V	24.61uA
37	470.7mV	54.65V	20.08uA	467.2mV	54.98V	24.59uA
38	467.6mV	55.03V	23.83uA	469.9mV	54.38V	19.70uA
39	469.2mV	54.91V	22.06uA	471.4mV	54.90V	22.43uA
40	467.3mV	54.82V	23.51uA	468.2mV	54.36V	19.33uA
41	469.1mV	55.13V	24.06uA	473.4mV	55.16V	22.83uA
42	469.2mV	55.10V	21.59uA	467.8mV	54.39V	22.65uA
43	469.0mV	54.53V	24.77uA	469.4mV	54.54V	20.60uA
44	471.7mV	54.57V	20.20uA	473.6mV	55.25V	23.65uA
45	467.2mV	54.97V	23.20uA	473.2mV	54.46V	22.40uA
46	473.2mV	54.53V	21.43uA	469.2mV	54.46V	19.42uA
47	471.1mV	54.86V	22.66uA	473.9mV	54.50V	24.50uA
48	467.1mV	54.49V	24.83uA	473.9mV	55.23V	21.46uA
49	470.7mV	54.69V	19.26uA	472.6mV	54.96V	23.31uA
50	469.1mV	55.21V	19.93uA	472.4mV	55.13V	23.01uA
51	470.2mV	55.26V	21.67uA	468.8mV	55.20V	21.48uA
52	470.4mV	54.73V	23.88uA	473.9mV	54.77V	19.62uA
53	470.7mV	55.07V	21.65uA	468.5mV	55.18V	23.76uA
54	473.7mV	55.21V	22.89uA	471.0mV	55.16V	22.00uA
55	471.3mV	55.19V	23.07uA	471.1mV	55.22V	22.48uA
56	468.8mV	55.00V	19.56uA	471.9mV	54.90V	24.11uA
57	471.8mV	54.91V	22.09uA	471.0mV	55.22V	20.90uA
58	471.7mV	55.14V	21.25uA	468.6mV	55.25V	19.32uA
59	473.7mV	54.51V	23.38uA	470.0mV	54.61V	20.61uA
60	468.7mV	54.69V	19.28uA	468.6mV	55.14V	19.54uA



SeCoS Corporation

Pressure Cooker Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 121°C, 100%RH, 29.7PSIG, 168Hrs

Test Date: 2018.03.05 ~ 2018.03.13

Test Standard : JESD22 STANDARD Method-A102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
61	470.5mV	54.43V	20.59uA	467.5mV	54.94V	19.28uA
62	467.1mV	54.50V	23.72uA	468.4mV	55.16V	22.85uA
63	468.7mV	54.95V	22.20uA	470.3mV	54.46V	23.01uA
64	468.0mV	54.36V	23.50uA	469.3mV	54.78V	20.96uA
65	473.8mV	54.56V	20.52uA	470.1mV	55.17V	23.03uA
66	473.1mV	55.03V	24.71uA	467.1mV	54.32V	19.33uA
67	470.7mV	54.40V	21.41uA	468.6mV	54.55V	25.11uA
68	473.4mV	54.62V	20.72uA	472.9mV	54.42V	19.86uA
69	468.8mV	55.12V	20.17uA	468.0mV	54.91V	22.38uA
70	473.6mV	55.07V	24.95uA	468.4mV	54.85V	23.14uA
71	467.4mV	55.02V	20.02uA	473.4mV	54.51V	24.22uA
72	468.4mV	54.97V	20.06uA	471.9mV	54.91V	20.01uA
73	468.6mV	54.51V	21.03uA	470.1mV	55.21V	24.59uA
74	469.9mV	55.00V	19.57uA	469.6mV	54.68V	23.45uA
75	470.1mV	55.17V	19.89uA	470.1mV	55.15V	24.00uA
76	471.1mV	55.05V	19.37uA	470.3mV	54.75V	23.01uA
77	469.1mV	55.03V	21.17uA	473.1mV	55.01V	22.16uA

Made By: King Huang

Approval: Peter Yang



SeCoS Corporation

Temperature Cycle Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: -55°C/30min, 150°C/30min, for1000 Cycle

Test Date: 2018.03.06 ~ 2018.04.27

Test Standard : JESD22 STANDARD Method-A104

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
1	470.0mV	54.52V	23.99uA	469.8mV	54.92V	20.78uA
2	472.0mV	54.89V	23.50uA	472.0mV	55.07V	22.02uA
3	467.5mV	54.51V	21.48uA	470.2mV	55.11V	24.22uA
4	469.5mV	55.15V	22.00uA	471.0mV	55.22V	20.34uA
5	472.5mV	54.83V	24.61uA	471.1mV	54.95V	20.90uA
6	469.4mV	54.76V	22.42uA	471.1mV	54.58V	23.02uA
7	469.2mV	54.58V	20.46uA	469.4mV	55.22V	20.01uA
8	472.6mV	54.93V	24.97uA	469.7mV	54.44V	23.78uA
9	470.4mV	55.26V	24.50uA	469.2mV	54.92V	22.90uA
10	470.2mV	54.96V	20.25uA	467.2mV	54.83V	24.15uA
11	471.6mV	54.38V	24.52uA	473.9mV	55.00V	23.55uA
12	473.4mV	54.70V	23.05uA	469.9mV	54.41V	20.78uA
13	472.8mV	54.35V	21.67uA	471.7mV	54.51V	20.23uA
14	469.8mV	54.61V	21.40uA	472.2mV	54.69V	23.23uA
15	470.9mV	54.83V	19.28uA	470.0mV	54.86V	21.57uA
16	469.0mV	55.26V	21.66uA	470.1mV	54.85V	23.99uA
17	469.5mV	54.97V	24.90uA	468.9mV	54.51V	24.41uA
18	467.6mV	55.16V	21.32uA	469.9mV	54.73V	23.23uA
19	468.4mV	54.60V	22.85uA	470.7mV	54.93V	20.80uA
20	473.8mV	54.47V	23.28uA	472.4mV	54.95V	24.95uA
21	473.6mV	55.12V	19.90uA	470.3mV	54.36V	21.08uA
22	471.4mV	54.93V	24.07uA	468.9mV	54.49V	19.53uA
23	467.9mV	54.54V	21.58uA	468.5mV	54.66V	24.73uA
24	469.9mV	54.58V	21.43uA	468.0mV	55.23V	24.04uA
25	467.7mV	54.95V	20.80uA	472.3mV	54.71V	20.11uA
26	468.4mV	55.21V	23.49uA	471.1mV	55.25V	21.44uA
27	469.8mV	54.62V	20.97uA	472.6mV	55.04V	24.82uA
28	468.3mV	54.56V	20.65uA	472.4mV	55.23V	24.94uA
29	471.5mV	55.20V	20.67uA	471.5mV	54.39V	20.66uA
30	467.7mV	55.08V	21.94uA	470.2mV	55.25V	25.16uA



SeCoS Corporation

Temperature Cycle Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: -55°C/30min, 150°C/30min, for1000 Cycle

Test Date: 2018.03.06 ~ 2018.04.27

Test Standard : JESD22 STANDARD Method-A104

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
31	467.1mV	54.46V	22.51uA	472.4mV	54.73V	21.48uA
32	469.4mV	54.64V	24.98uA	474.0mV	55.10V	19.77uA
33	471.3mV	54.54V	22.39uA	470.9mV	54.73V	23.99uA
34	473.3mV	54.90V	23.52uA	470.2mV	54.96V	22.96uA
35	472.1mV	55.10V	25.08uA	468.1mV	55.25V	24.33uA
36	467.5mV	54.58V	24.34uA	467.7mV	54.93V	20.82uA
37	473.7mV	54.61V	24.77uA	473.4mV	55.26V	24.62uA
38	468.1mV	54.92V	21.80uA	467.3mV	55.22V	21.49uA
39	471.0mV	54.45V	20.68uA	467.5mV	54.74V	23.76uA
40	468.8mV	54.58V	23.53uA	472.1mV	54.91V	19.67uA
41	473.2mV	54.74V	21.27uA	467.9mV	54.54V	19.84uA
42	468.7mV	54.83V	19.41uA	473.6mV	54.73V	24.57uA
43	470.8mV	54.58V	22.07uA	470.2mV	55.09V	20.99uA
44	468.1mV	55.19V	23.58uA	468.9mV	55.13V	21.69uA
45	469.7mV	54.73V	21.77uA	472.5mV	54.67V	21.96uA
46	468.9mV	54.45V	19.46uA	469.2mV	54.95V	21.94uA
47	472.5mV	54.68V	24.27uA	472.8mV	54.39V	23.52uA
48	473.1mV	55.16V	20.73uA	469.0mV	54.83V	22.17uA
49	473.7mV	54.36V	19.69uA	470.9mV	54.69V	20.39uA
50	472.2mV	54.44V	19.72uA	469.4mV	54.81V	23.34uA
51	469.4mV	55.11V	23.96uA	468.3mV	54.75V	24.86uA
52	473.8mV	54.92V	24.61uA	467.1mV	55.11V	20.56uA
53	472.6mV	54.49V	21.85uA	472.1mV	54.90V	24.80uA
54	467.8mV	54.68V	23.61uA	469.6mV	54.46V	21.97uA
55	471.2mV	54.71V	20.24uA	473.5mV	55.00V	21.18uA
56	473.4mV	54.58V	24.39uA	468.1mV	55.07V	22.26uA
57	470.9mV	54.56V	19.44uA	470.5mV	55.23V	23.67uA
58	473.3mV	54.37V	22.42uA	467.3mV	54.77V	22.34uA
59	467.1mV	54.76V	21.88uA	470.3mV	54.77V	23.55uA
60	471.2mV	54.46V	23.30uA	468.3mV	54.95V	23.93uA



SeCoS Corporation

Temperature Cycle Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: -55°C/30min, 150°C/30min, for1000 Cycle

Test Date: 2018.03.06 ~ 2018.04.27

Test Standard : JESD22 STANDARD Method-A104

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
61	469.9mV	55.11V	23.58uA	467.6mV	54.33V	23.03uA
62	471.1mV	54.41V	22.88uA	467.8mV	54.89V	20.00uA
63	473.3mV	55.00V	19.31uA	472.9mV	54.42V	23.70uA
64	468.7mV	54.95V	19.97uA	472.5mV	55.16V	24.76uA
65	467.8mV	54.82V	20.01uA	472.0mV	54.33V	23.66uA
66	470.2mV	54.51V	24.21uA	473.6mV	54.89V	19.99uA
67	471.8mV	55.02V	22.60uA	467.3mV	54.35V	24.12uA
68	468.9mV	54.87V	23.88uA	468.4mV	54.52V	23.96uA
69	471.8mV	54.59V	24.94uA	468.5mV	55.26V	20.14uA
70	471.8mV	54.84V	19.99uA	467.7mV	54.88V	20.24uA
71	473.8mV	54.67V	20.29uA	473.5mV	54.95V	24.78uA
72	469.5mV	55.06V	24.95uA	467.9mV	54.69V	23.66uA
73	467.4mV	55.14V	23.92uA	473.6mV	54.51V	19.87uA
74	472.6mV	54.57V	24.65uA	472.8mV	54.34V	22.17uA
75	467.5mV	54.91V	21.82uA	473.8mV	54.82V	24.24uA
76	467.7mV	55.11V	20.83uA	473.5mV	54.90V	20.91uA
77	469.1mV	55.02V	20.35uA	467.8mV	54.63V	21.90uA

Made By: King Huang

Approval: Peter Yang



High Temperature High Humidity Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 85±2°C, 85±5%RH, 1000Hrs

Test Date: 2018.03.13 ~ 2018.04.25

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
1	468.2mV	55.06V	19.46uA	467.9mV	55.19V	24.37uA
2	471.3mV	54.67V	24.97uA	471.0mV	54.70V	21.97uA
3	468.4mV	54.52V	21.84uA	471.2mV	54.52V	24.15uA
4	468.1mV	55.19V	24.08uA	470.2mV	55.26V	21.24uA
5	471.2mV	54.99V	19.41uA	471.0mV	54.75V	20.46uA
6	468.6mV	55.11V	22.52uA	473.6mV	54.37V	21.62uA
7	469.3mV	55.18V	24.79uA	467.7mV	54.97V	21.19uA
8	473.5mV	54.80V	25.14uA	467.0mV	54.43V	23.38uA
9	473.2mV	54.56V	25.19uA	469.1mV	54.90V	21.47uA
10	467.8mV	55.16V	23.62uA	469.3mV	54.75V	23.37uA
11	472.2mV	55.01V	21.05uA	471.4mV	55.25V	20.49uA
12	468.8mV	54.70V	21.65uA	473.5mV	54.48V	20.77uA
13	470.2mV	55.17V	23.31uA	472.5mV	54.63V	21.08uA
14	472.7mV	54.57V	22.63uA	468.1mV	54.81V	23.38uA
15	469.8mV	54.68V	19.53uA	471.8mV	54.58V	22.57uA
16	473.1mV	54.79V	19.53uA	471.0mV	54.61V	22.54uA
17	472.0mV	54.60V	25.09uA	470.6mV	54.79V	20.63uA
18	467.1mV	54.47V	23.63uA	469.4mV	55.14V	22.36uA
19	472.4mV	55.24V	23.77uA	467.0mV	54.60V	21.65uA
20	468.0mV	55.01V	24.49uA	473.8mV	54.78V	21.90uA
21	471.8mV	55.20V	24.54uA	467.6mV	54.85V	20.47uA
22	471.0mV	54.34V	22.29uA	467.3mV	54.52V	20.58uA
23	473.2mV	54.94V	21.03uA	472.6mV	55.21V	23.81uA
24	470.5mV	55.24V	22.42uA	470.1mV	54.44V	22.27uA
25	470.9mV	54.93V	22.09uA	467.2mV	54.92V	22.68uA
26	473.3mV	55.07V	20.04uA	468.5mV	54.86V	24.42uA
27	467.6mV	55.15V	21.66uA	470.4mV	54.41V	22.79uA
28	469.3mV	54.79V	22.28uA	472.6mV	54.72V	21.04uA
29	468.2mV	54.73V	21.76uA	473.6mV	54.81V	24.02uA
30	472.2mV	55.12V	23.79uA	468.8mV	54.49V	25.05uA



High Temperature High Humidity Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 85±2°C, 85±5%RH, 1000Hrs

Test Date: 2018.03.13 ~ 2018.04.25

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
31	467.8mV	54.80V	23.85uA	473.4mV	54.67V	19.73uA
32	470.9mV	55.24V	22.18uA	471.5mV	55.24V	19.57uA
33	468.7mV	54.38V	22.63uA	468.7mV	54.60V	21.80uA
34	472.3mV	54.65V	20.87uA	470.0mV	54.72V	24.64uA
35	468.5mV	54.33V	19.43uA	470.2mV	54.89V	19.24uA
36	472.1mV	55.13V	21.67uA	473.8mV	55.18V	22.67uA
37	472.2mV	55.12V	21.87uA	469.6mV	54.99V	21.44uA
38	469.6mV	55.19V	20.50uA	468.7mV	54.84V	21.14uA
39	473.9mV	55.10V	23.15uA	471.1mV	54.68V	22.90uA
40	469.6mV	54.77V	22.64uA	470.3mV	54.33V	20.91uA
41	469.1mV	54.75V	21.52uA	469.4mV	55.20V	21.20uA
42	468.6mV	54.89V	21.12uA	470.2mV	54.65V	20.37uA
43	468.4mV	54.66V	22.26uA	470.7mV	55.07V	23.51uA
44	469.6mV	55.02V	20.43uA	473.5mV	54.93V	20.48uA
45	474.0mV	54.83V	21.39uA	470.8mV	54.86V	23.71uA
46	471.7mV	54.56V	24.23uA	469.7mV	55.04V	21.75uA
47	472.0mV	54.57V	20.59uA	473.3mV	54.49V	20.38uA
48	470.2mV	54.74V	21.82uA	473.7mV	55.25V	24.49uA
49	473.3mV	54.81V	20.35uA	468.8mV	54.51V	19.56uA
50	468.1mV	55.06V	21.78uA	473.6mV	54.49V	21.69uA
51	467.3mV	55.11V	19.74uA	473.5mV	54.86V	23.24uA
52	473.6mV	54.32V	22.44uA	467.9mV	54.80V	21.19uA
53	468.1mV	55.08V	24.89uA	470.3mV	55.00V	21.05uA
54	468.2mV	54.59V	22.41uA	473.7mV	55.21V	24.34uA
55	473.2mV	54.76V	20.79uA	472.6mV	55.12V	22.12uA
56	469.4mV	55.27V	20.97uA	467.8mV	55.08V	24.92uA
57	467.8mV	54.68V	19.92uA	467.5mV	54.45V	23.45uA
58	473.2mV	55.19V	21.58uA	472.5mV	54.43V	24.10uA
59	472.7mV	54.71V	22.03uA	473.8mV	54.89V	25.00uA
60	471.2mV	54.47V	23.44uA	472.6mV	54.59V	20.22uA



High Temperature High Humidity Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 85±2°C, 85±5%RH, 1000Hrs

Test Date: 2018.03.13 ~ 2018.04.25

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
61	471.5mV	55.15V	22.19uA	467.4mV	55.12V	20.27uA
62	473.3mV	55.16V	22.28uA	471.6mV	55.24V	22.26uA
63	468.6mV	54.83V	19.98uA	469.0mV	54.57V	23.14uA
64	470.4mV	54.58V	20.43uA	468.2mV	54.54V	22.91uA
65	468.4mV	54.42V	20.66uA	468.9mV	55.04V	19.37uA
66	473.7mV	55.10V	21.25uA	472.8mV	54.99V	20.91uA
67	471.2mV	54.91V	24.62uA	473.3mV	54.72V	22.70uA
68	471.6mV	54.48V	20.24uA	468.9mV	54.79V	19.89uA
69	471.6mV	54.61V	22.49uA	468.0mV	55.03V	24.56uA
70	473.8mV	54.42V	23.24uA	470.7mV	55.25V	23.41uA
71	471.1mV	55.16V	20.97uA	471.3mV	54.95V	20.19uA
72	467.9mV	54.89V	20.27uA	469.8mV	55.24V	21.98uA
73	472.5mV	54.73V	22.81uA	472.3mV	55.20V	24.48uA
74	471.7mV	54.89V	21.10uA	470.3mV	54.94V	24.29uA
75	471.7mV	54.52V	22.46uA	468.0mV	54.52V	23.62uA
76	473.5mV	55.24V	22.38uA	468.4mV	55.04V	22.64uA
77	472.1mV	54.42V	22.83uA	468.5mV	54.67V	20.15uA

Made By: King Huang

Approval: Peter Yang



High Temper High Humidity Reverse Bies Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 85±2°C, 85±5%RH, 80% VR, 1000Hrs

Test Date: 2018.03.13 ~ 2018.04.25

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
1	470.1mV	54.40V	20.06uA	470.5mV	54.42V	20.83uA
2	467.6mV	54.82V	21.22uA	473.9mV	54.68V	24.98uA
3	469.2mV	54.92V	23.65uA	469.5mV	54.35V	23.55uA
4	473.6mV	55.04V	21.82uA	471.3mV	54.95V	22.16uA
5	467.8mV	54.81V	19.56uA	473.4mV	54.37V	22.01uA
6	468.7mV	54.37V	21.58uA	468.9mV	54.92V	23.31uA
7	469.1mV	55.21V	21.56uA	469.3mV	54.76V	20.81uA
8	467.2mV	54.76V	21.24uA	467.5mV	54.60V	20.19uA
9	472.1mV	54.38V	22.97uA	471.2mV	54.38V	21.19uA
10	470.1mV	54.46V	21.48uA	469.9mV	54.87V	24.63uA
11	470.8mV	54.73V	19.64uA	467.1mV	54.42V	24.42uA
12	472.8mV	54.44V	19.81uA	469.6mV	54.74V	21.83uA
13	467.7mV	55.18V	20.52uA	471.7mV	54.81V	20.53uA
14	470.7mV	54.54V	22.05uA	468.9mV	54.83V	22.49uA
15	470.1mV	54.74V	22.55uA	467.6mV	54.93V	24.95uA
16	473.5mV	54.83V	19.97uA	472.9mV	54.73V	19.36uA
17	473.3mV	54.39V	23.71uA	468.7mV	55.25V	22.75uA
18	468.0mV	54.46V	22.55uA	467.4mV	55.00V	24.21uA
19	467.4mV	54.99V	23.96uA	469.1mV	54.86V	20.14uA
20	473.0mV	55.12V	22.91uA	472.2mV	54.48V	23.46uA
21	467.4mV	55.09V	24.40uA	472.9mV	54.70V	21.43uA
22	470.5mV	54.89V	19.40uA	467.3mV	54.92V	20.85uA
23	473.0mV	54.46V	22.27uA	467.7mV	54.53V	22.60uA
24	472.5mV	54.43V	23.45uA	473.7mV	54.97V	20.84uA
25	467.5mV	54.99V	19.76uA	473.5mV	54.48V	20.76uA
26	467.5mV	54.89V	20.13uA	469.3mV	54.50V	20.80uA
27	470.9mV	55.23V	23.91uA	471.2mV	55.24V	24.82uA
28	469.3mV	54.36V	23.77uA	467.7mV	54.33V	20.91uA
29	472.4mV	54.60V	21.57uA	469.4mV	55.26V	21.45uA
30	471.9mV	54.89V	23.35uA	469.6mV	54.77V	19.69uA



High Temper High Humidity Reverse Bies Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 85±2°C, 85±5%RH, 80% VR, 1000Hrs

Test Date: 2018.03.13 ~ 2018.04.25

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
31	469.5mV	55.06V	24.12uA	470.9mV	54.98V	20.15uA
32	467.2mV	54.54V	23.87uA	467.2mV	55.19V	20.14uA
33	470.9mV	54.68V	24.94uA	467.3mV	55.16V	23.88uA
34	473.8mV	55.01V	21.06uA	468.0mV	54.65V	23.23uA
35	468.4mV	55.06V	23.63uA	473.5mV	55.07V	22.63uA
36	472.0mV	55.23V	21.82uA	473.4mV	54.42V	19.67uA
37	470.3mV	54.45V	20.22uA	467.0mV	54.72V	21.07uA
38	471.5mV	54.86V	19.36uA	472.2mV	55.14V	23.86uA
39	473.1mV	54.42V	22.24uA	469.8mV	54.55V	19.29uA
40	471.6mV	54.94V	22.90uA	472.8mV	55.09V	23.22uA
41	467.7mV	54.66V	19.43uA	470.9mV	54.31V	23.54uA
42	470.4mV	55.08V	19.94uA	470.0mV	54.77V	22.07uA
43	468.4mV	54.55V	24.37uA	470.2mV	54.66V	20.95uA
44	468.5mV	54.43V	20.98uA	471.8mV	55.11V	20.50uA
45	471.3mV	55.14V	23.37uA	473.1mV	54.40V	23.62uA
46	467.4mV	54.81V	24.95uA	467.7mV	54.43V	21.13uA
47	468.4mV	54.67V	23.34uA	471.2mV	54.71V	20.46uA
48	471.0mV	55.13V	20.47uA	472.5mV	54.36V	19.29uA
49	469.4mV	54.43V	25.03uA	473.3mV	55.17V	22.69uA
50	473.2mV	54.56V	23.03uA	469.1mV	55.24V	21.10uA
51	474.0mV	54.47V	20.73uA	472.3mV	54.82V	21.09uA
52	473.4mV	54.35V	24.48uA	468.2mV	54.71V	19.96uA
53	469.8mV	55.07V	22.62uA	468.0mV	55.24V	24.02uA
54	467.4mV	55.26V	19.96uA	472.4mV	54.84V	22.51uA
55	473.0mV	54.66V	22.11uA	472.5mV	55.15V	23.79uA
56	471.3mV	55.05V	21.65uA	467.6mV	55.19V	21.07uA
57	470.6mV	55.00V	21.35uA	468.1mV	54.43V	19.87uA
58	473.8mV	54.52V	21.94uA	470.6mV	55.16V	22.56uA
59	467.5mV	54.98V	21.39uA	473.8mV	54.93V	24.75uA
60	467.3mV	54.71V	20.14uA	469.2mV	54.67V	21.07uA



High Temper High Humidity Reverse Bies Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 85±2°C, 85±5%RH, 80% VR, 1000Hrs

Test Date: 2018.03.13 ~ 2018.04.25

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
61	470.8mV	54.82V	21.79uA	471.6mV	55.08V	22.04uA
62	469.1mV	54.59V	23.63uA	470.7mV	54.90V	19.62uA
63	470.4mV	55.07V	24.62uA	473.5mV	55.19V	22.06uA
64	467.4mV	55.27V	19.52uA	470.1mV	54.96V	20.19uA
65	471.6mV	54.45V	20.74uA	471.3mV	55.24V	24.04uA
66	470.5mV	55.13V	24.51uA	470.4mV	55.16V	21.94uA
67	468.0mV	54.78V	22.61uA	470.4mV	54.32V	24.84uA
68	468.5mV	54.46V	22.73uA	468.8mV	54.36V	22.25uA
69	470.7mV	54.55V	24.78uA	467.8mV	54.60V	24.03uA
70	468.8mV	54.95V	25.14uA	471.6mV	54.33V	24.59uA
71	468.9mV	54.55V	22.42uA	468.5mV	55.15V	24.44uA
72	470.2mV	54.46V	21.32uA	471.4mV	54.89V	22.61uA
73	471.7mV	54.56V	22.52uA	472.7mV	54.35V	24.26uA
74	470.6mV	54.53V	23.95uA	468.9mV	54.41V	24.33uA
75	469.6mV	54.49V	24.13uA	471.8mV	54.50V	24.16uA
76	467.6mV	54.67V	22.46uA	471.6mV	54.85V	21.59uA
77	467.1mV	54.70V	23.63uA	470.0mV	54.60V	21.22uA

Made By: King Huang

Approval: Peter Yang



SeCoS Corporation

Solderability Test Data

Report No : T180430-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 245°C ± 5°C, 5Sec

Test Date: 2018.04.28

Test Standard : JESD22 STANDER Method-B102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
1	473.3mV	54.31V	22.80uA	470.8mV	55.06V	20.62uA
2	471.2mV	54.59V	21.23uA	468.9mV	54.47V	19.70uA
3	470.1mV	54.36V	24.54uA	468.6mV	54.95V	19.62uA
4	471.8mV	54.48V	23.70uA	471.0mV	54.62V	21.37uA
5	474.0mV	55.10V	22.80uA	472.7mV	55.18V	21.79uA
6	468.6mV	54.95V	20.30uA	472.4mV	54.53V	22.17uA
7	469.7mV	55.13V	23.87uA	468.8mV	54.47V	19.82uA
8	468.4mV	54.89V	20.49uA	473.1mV	54.48V	23.07uA
9	471.3mV	55.03V	21.58uA	473.6mV	55.25V	23.83uA
10	467.8mV	54.86V	19.35uA	468.8mV	54.37V	23.78uA

Made By: King Huang

Approval: Peter Yang

試驗報告

號碼(No.) : KA/2017/61160 日期(Date) : 2017/06/15

頁數 (Page) : 1 of 21

Test Report

義典科技股份有限公司

E'DALE TECHNOLOGY CO., LTD.

72242 台南市佳里區六安里六安130號/江蘇省無錫市錫山區東港鎮錫港東路35號

NO. 130, LIOUAN, LIOUAN LI, JIALI DIST., TAINAN CITY, TAIWAN

NO. 35, XIGANG EAST ROAD, DONGGANG TOWN, XISHAN DIST., WUXI CITY, JIANG SU, CHINA

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as) :

樣品名稱(Sample Description) : EPOXY MOLDING COMPOUND
樣品型號(Style/Item No.) : ELER-8-SERIES
收件日期(Sample Receiving Date) : 2017/06/13
測試期間(Testing Period) : 2017/06/13 TO 2017/06/15
送樣廠商(Sample Submitted By) : 義典科技股份有限公司 (E'DALE TECHNOLOGY CO., LTD.)

測試需求(Test Requested) :

- (1) 依據客戶指定, 參考RoHS2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP. (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample.)
- (2) 其他測試項目請見下一頁. (Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

結論(Conclusion) :

- (1) 根據客戶所提供的樣品, 其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS指令暨(EU) 2015/863之限值要求. (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS and amending Directive (EU) 2015/863.)



報告簽署人/Ray Chang, Ph.D./Manager-Tech
Signed for and on behalf of
SGS Taiwan Limited

試驗報告

號碼(No.) : KA/2017/61160 日期(Date) : 2017/06/15

頁數 (Page) : 2 of 21

Test Report

義典科技股份有限公司

E'DALE TECHNOLOGY CO., LTD.

72242 台南市佳里區六安里六安130號/江蘇省無錫市錫山區東港鎮錫港東路35號

NO. 130, LIOUAN, LIOUAN LI, JIALI DIST., TAINAN CITY, TAIWAN

NO. 35, XIGANG EAST ROAD, DONGGANG TOWN, XISHAN DIST., WUXI CITY, JIANG SU, CHINA

測試結果(Test Results)

測試部位(PART NAME)No.1 : 黑色 EPOXY MOLDING COMPOUND
(BLACK EPOXY MOLDING COMPOUND)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	限值 (Limit)
				No.1	
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5:2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5:2013 and performed by ICP-AES.	2	n.d.	100
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5:2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5:2013 and performed by ICP-AES.	2	n.d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4:2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4:2013 and performed by ICP-AES.	2	n.d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321-7-2:2017, 以UV-VIS檢測. / With reference to IEC 62321-7-2:2017 and performed by UV-VIS.	8	n.d.	1000

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義典科技股份有限公司

E'DALE TECHNOLOGY CO., LTD.

72242 台南市佳里區六安里六安130號/江蘇省無錫市錫山區東港鎮錫港東路35號

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NO. 35, XIGANG EAST ROAD, DONGGANG TOWN, XISHAN DIST., WUXI CITY, JIANG SU, CHINA

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	限值 (Limit)
				No.1	
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by GC/MS.	-	n.d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by GC/MS.	-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.	-
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	限值 (Limit)
				No.1	
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	參考IEC 62321-8:2017, 以氣相層析儀/ 質譜儀檢測。 / With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n.d.	1000
鄰苯二甲酸丁苄甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n.d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n.d.	1000
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n.d.	1000
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0, 68515-49-1)	mg/kg		50	n.d.	-
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0, 68515-48-0)	mg/kg		50	n.d.	-
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg		50	n.d.	-
鄰苯二甲酸二(2-甲氧基乙基)酯 / DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	mg/kg		50	n.d.	-
鄰苯二甲酸二正戊酯 / DNPP (Di-n-pentyl phthalate) (CAS No.: 131-18-0)	mg/kg		50	n.d.	-
鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	mg/kg		50	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	限值 (Limit)
				No.1	
銻 / Antimony (Sb)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿 原子發射光譜儀檢測銻含量. / With reference to US EPA Method 3052 for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.	-
鈹 / Beryllium (Be)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿 原子發射光譜儀檢測鈹含量. / With reference to US EPA Method 3052 for Beryllium Content. Analysis was performed by ICP-AES.	2	n.d.	-
砷 / Arsenic (As)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿 原子發射光譜儀檢測砷含量. / With reference to US EPA Method 3052 for Arsenic Content. Analysis was performed by ICP-AES.	2	n.d.	-
磷 / Phosphorus (P)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿 原子發射光譜儀檢測磷含量. / With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES.	10	115	-
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321: 2008方法, 以氣相層析/ 質譜儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.	-
四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	參考RSTS-E&E-121方法, 以液相層析/質 譜儀分析. / With reference to RSTS- E&E-121. Analysis was performed by LC/MS.	10	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	限值 (Limit)
				No.1	
紅磷 / Red phosphorus	**	本測試以熱裂解-氣相層析/質譜儀分析。 / Analysis was performed by Pyrolyzer-GC/MS.	-	Negative	-
聚氯乙烯 / PVC	**	以紅外光譜分析及焰色法檢測。/ Analysis was performed by FTIR and FLAME Test.	-	Negative	-
全氟辛酸(銨) / PFOA (CAS No.: 335-67-1)	mg/kg	參考US EPA 3550C: 2007方法, 以液相層 析/質譜儀檢測。/ With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS)	mg/kg	參考US EPA 3550C: 2007方法, 以液相層 析/質譜儀檢測。/ With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
鹵素 / Halogen					
鹵素(氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2016, 以離子層析儀分 析。/ With reference to BS EN 14582:2016. Analysis was performed by IC.	50	n.d.	-
鹵素(氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg		50	104	-
鹵素(溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg		50	n.d.	-
鹵素(碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg		50	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	限值 (Limit)
				No.1	
多環芳香烴 / Polynuclear Aromatic Hydrocarbons (PAHs)					
芴 / Acenaphthene (CAS No.: 83-32-9)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測。 / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.	-
芴烯 / Acenaphthylene (CAS No.: 208-96-8)	mg/kg		0.2	n.d.	-
蔥 / Anthracene (CAS No.: 120-12-7)	mg/kg		0.2	n.d.	-
苯駢蔥 / Benzo[a]anthracene (CAS No.: 56-55-3)	mg/kg		0.2	n.d.	-
苯駢(a)芘 / Benzo[a]pyrene (CAS No.: 50-32-8)	mg/kg		0.2	n.d.	-
苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No.: 205-99-2)	mg/kg		0.2	n.d.	-
苯駢芘 / Benzo[g,h,i]perylene (CAS No.: 191-24-2)	mg/kg		0.2	n.d.	-
苯(k)苯駢芴 / Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg		0.2	n.d.	-
Chrysene (CAS No.: 218-01-9)	mg/kg		0.2	n.d.	-
二苯駢蔥 / Dibenzo[a,h]anthracene (CAS No.: 53-70-3)	mg/kg		0.2	n.d.	-
苯駢芴 / Fluoranthene (CAS No.: 206-44-0)	mg/kg		0.2	n.d.	-
芴 / Fluorene (CAS No.: 86-73-7)	mg/kg		0.2	n.d.	-
茚酮芘 / Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)	mg/kg		0.2	n.d.	-
萘 / Naphthalene (CAS No.: 91-20-3)	mg/kg		0.2	n.d.	-
菲 / Phenanthrene (CAS No.: 85-01-8)	mg/kg		0.2	n.d.	-
芘 / Pyrene (CAS No.: 129-00-0)	mg/kg		0.2	n.d.	-
苯(j)苯駢芴 / Benzo[j]fluoranthene (CAS No.: 205-82-3)	mg/kg		0.2	n.d.	-
苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192-97-2)	mg/kg		0.2	n.d.	-
多環芳香烴18項總和 / Sum of 18 PAHs	mg/kg	-	n.d.	-	

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備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. ** = Qualitative analysis (No Unit) 定性分析(無單位)
6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
7. 聚氯乙烯測試由SGS其他實驗室執行 (The PVC test was subcontracted to other SGS Laboratory.)
8. 紅磷定性分析測試由SGS其他實驗室執行
(The Red Phosphorus test was subcontracted to other SGS Laboratory.)

PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm), 在半成品、成品或零部件中不得超過0.1%(1000ppm), 在紡織品或塗層材料中不得超過1 μ g/m²。(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1 μ g/m².)

全氟辛烷磺酸指全氟辛烷磺酸和它的衍生物包括全氟辛烷磺酸, 全氟辛基磺醯胺, N-甲基全氟辛烷磺醯胺, N-乙基全氟辛烷磺醯胺, N-甲基全氟辛基磺醯基氨基乙醇, N-乙基全氟辛基磺醯基氨基乙醇。(PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluorooctanesulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol.)

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德國產品安全委員會(AfPS) GS PAHs 要求 /

AfPS (German commission for Product Safety): GS PAHs requirements

項目 (Parameter)	第1類 (Category 1)	第2類 (Category 2)		第3類 (Category 3)	
	意圖放入嘴內的材料或玩具會與皮膚有所接觸(超過30秒). (Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).)	不屬於第1類的材料並可預見與皮膚接觸逾30秒(長期或經常與皮膚接觸). (Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long-term or frequent contact).)		可預見與皮膚接觸短於30秒(短期與皮膚接觸), 以及不屬於第1類或第2類的材料. (Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short-term skin contact).)	
		列於2009/48/EC之玩具 (Toy under 2009/48/EC)	列於德國產品安全法之其他產品 (Other products under ProdSG)	列於2009/48/EC之玩具 (Toy under 2009/48/EC)	列於德國產品安全法之其他產品 (Other products under ProdSG)
Naphthalene	< 1	< 2		< 10	
Acenaphthylene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Acenaphthene					
Fluorene					
Phenanthrene					
Anthracene					
Fluoranthene					
Pyrene					
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[i]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d] pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
18項PAH總濃度 (Sum of 18 PAH)	< 1	< 5	< 10	< 20	< 50

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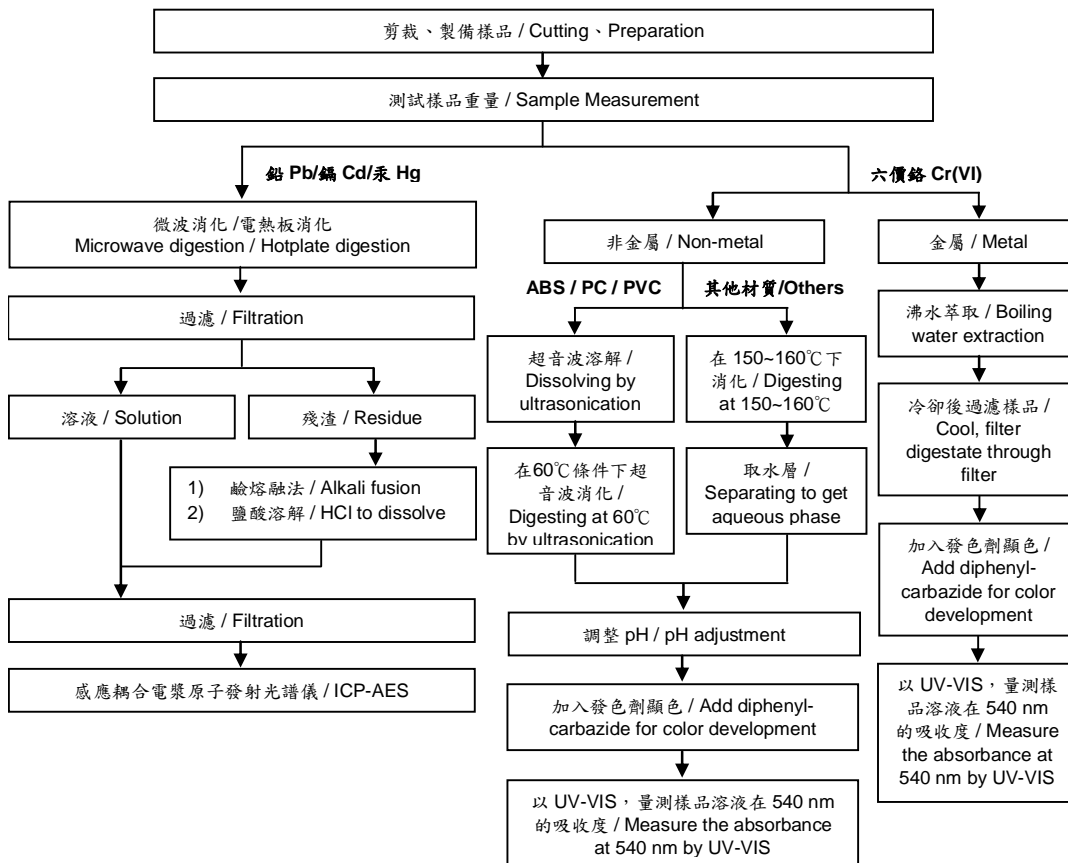
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重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- 測試人員：劉俊宏 / Technician : Jony Liu
- 測試負責人：張伯睿 / Supervisor: Ray Chang



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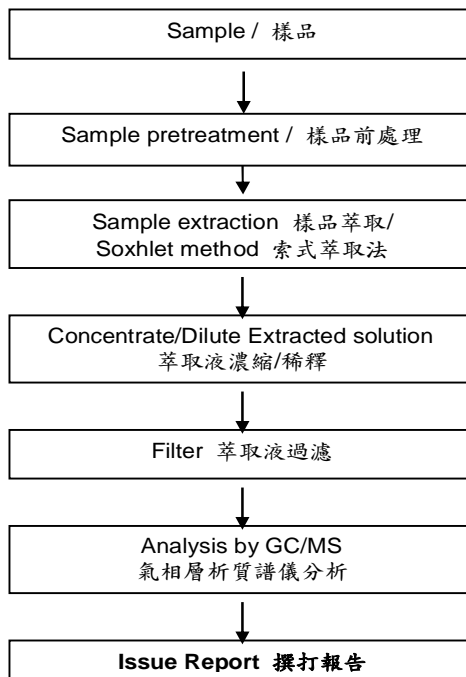
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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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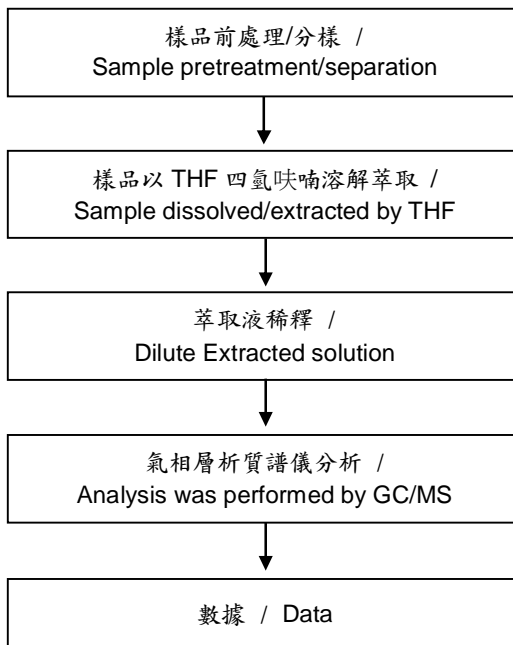
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NO. 35, XIGANG EAST ROAD, DONGGANG TOWN, XISHAN DIST., WUXI CITY, JIANG SU, CHINA

可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang

【測試方法/Test method: IEC 62321-8】



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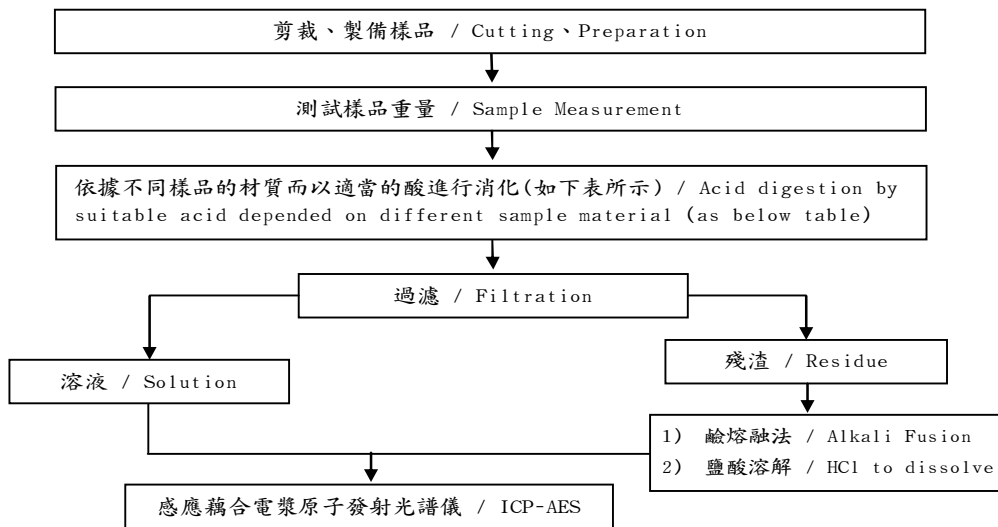
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NO. 35, XIGANG EAST ROAD, DONGGANG TOWN, XISHAN DIST., WUXI CITY, JIANG SU, CHINA

- 1) 根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員：劉俊宏 / Name of the person who made measurement: Jony Liu
- 3) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang

元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)



鋼, 銅, 鋁, 焊錫 / Steel, copper, aluminum, solder	王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
玻璃 / Glass	硝酸, 氫氟酸 / HNO ₃ /HF
金, 鉑, 鈦, 陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO ₃
塑膠 / Plastic	硫酸, 雙氧水, 硝酸, 鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
其他 / Others	加入任何酸至完全溶解 / Any acid to total digestion

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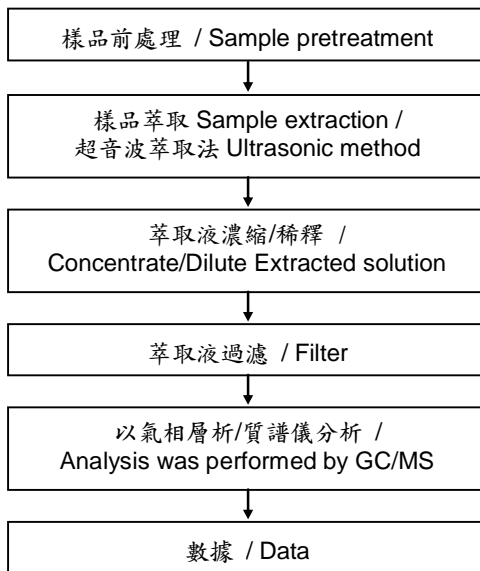
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 1) 測試人員：陳威錚/ Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人：張伯睿/ Name of the person in charge of measurement: Ray Chang



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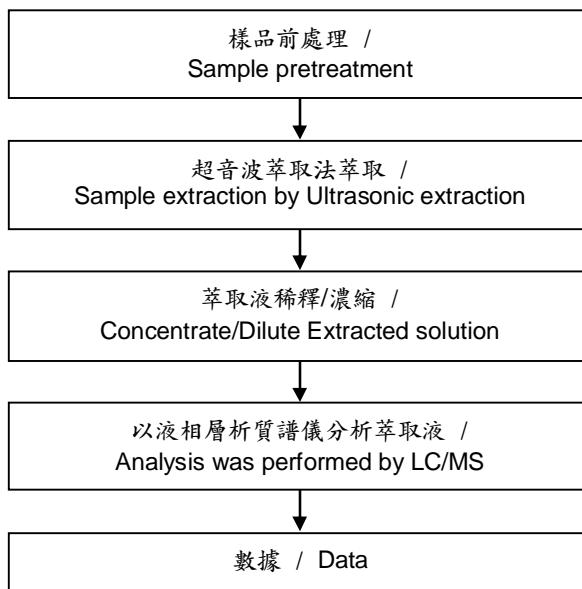
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四溴雙酚-A分析流程圖 / TBBP-A analytical flow chart

- 測試人員：黃璟瓔/ Name of the person who made measurement: Ginny Huang
- 測試負責人：張伯睿/ Name of the person in charge of measurement: Ray Chang



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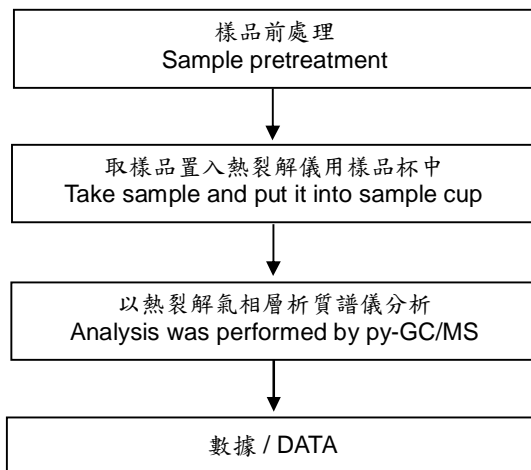
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紅磷分析流程 / Analytical flow chart of Red phosphorus

- 測試人員：林建宇 / Name of the person who made measurement: Roy Lin
- 測試負責人：張啟興 / Name of the person in charge of measurement: Troy Chang



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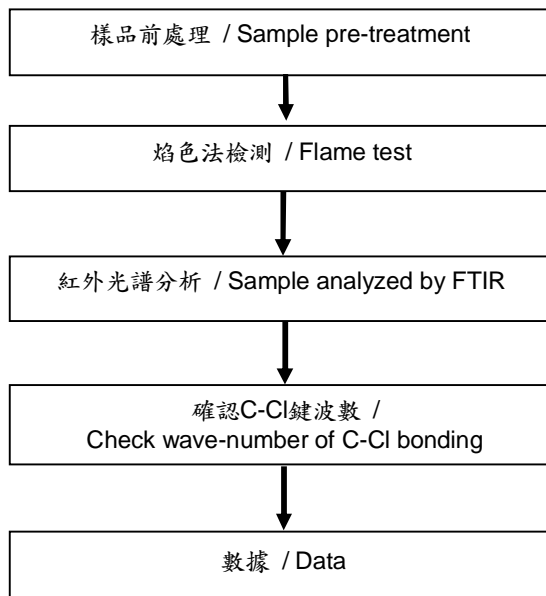
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聚氯乙稀物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

- 1) 測試人員：戴秀純 / Name of the person who made measurement: Hannah Tai
- 2) 測試負責人：林立翔 / Name of the person in charge of measurement: Roger Lin



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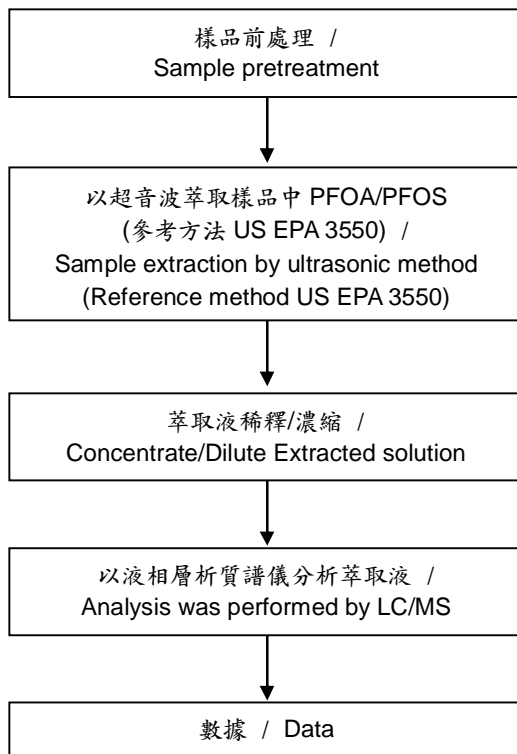
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全氟辛酸(銨)/全氟辛酸磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

1)測試人員：黃環瓔 / Name of the person who made measurement: Ginny Huang

2)測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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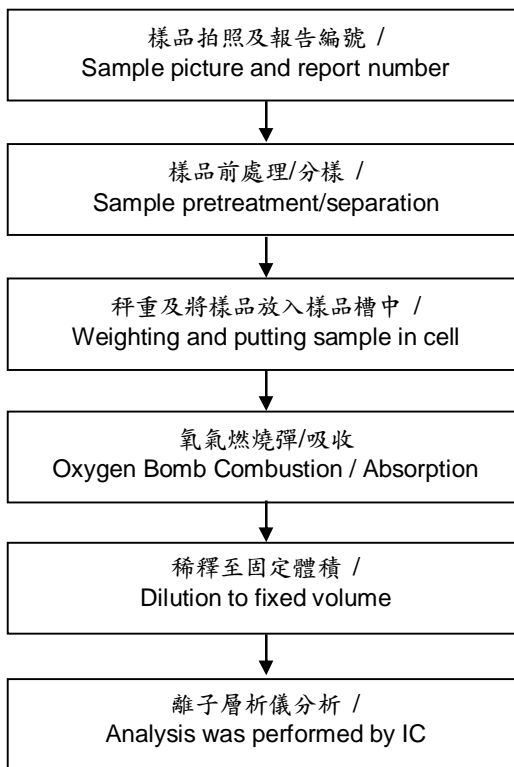
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員：洪秀真/ Name of the person who made measurement: Jean Hung
- 2) 測試負責人：張伯睿/ Name of the person in charge of measurement: Ray Chang



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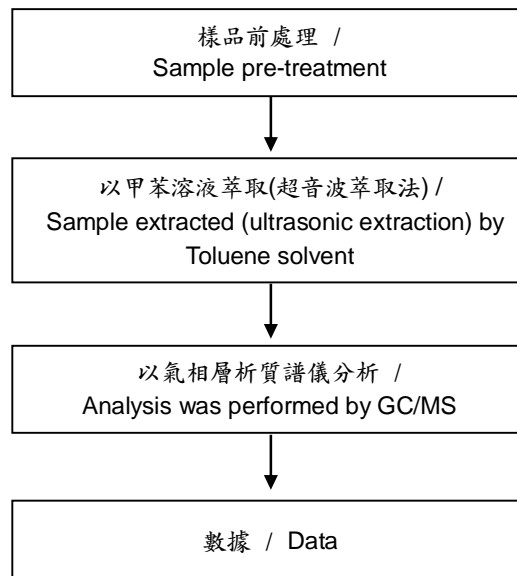
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多苯環芳香族化合物分析流程圖 /

PAHs (Poly Aromatic Hydrocarbons) analytical flow chart

- 1) 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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