

## TEST REPORT

No. : NBIN2004003587PS

Date : Apr 23, 2020

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scan to see the report



NBIN2004003587PS

CUSTOMER NAME: SUZHOU QIANSHENG PLASTIC INDUSTRY CO., LTD  
ADDRESS: 8 JINGMIN ROAD, DONGQIAO, HUANGDAI TOWN, XIANGCHENG DISTRICT, SUZHOU

Sample Name : PC BOARD

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

\*\*\*\*\*

Date of Receipt : Apr 15, 2020  
Testing Start Date : Apr 15, 2020  
Testing End Date : Apr 23, 2020  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd Ningbo Branch

Luna Yu  
Authorized signatory



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No. : NBIN2004003587PS

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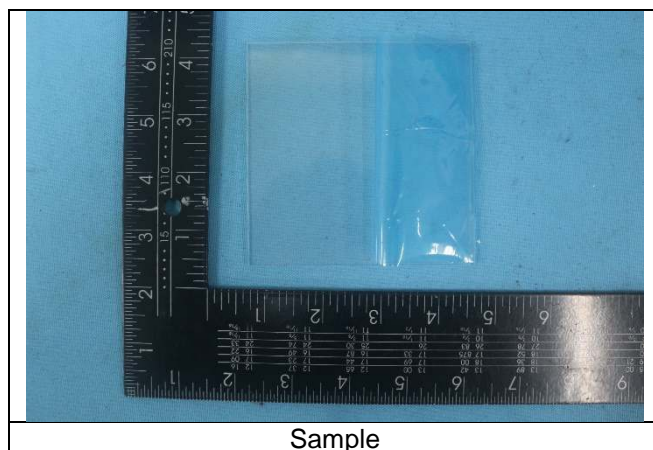
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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion	
1	Vertical Burning	UL 94-2013 Rev.9-2018 Section 8	V-0	/	
2	Charpy Notched Impact Strength	GB/T 1043.1-2008	70kJ/m <sup>2</sup> P (Partial break)	/	
3	Deflection Temperature under Load	GB/T 1634.1-2019 & GB/T 1634.2-2019 Method A	132°C	/	
4	Flexural Test	GB/T 9341-2008	Flexural strength	105MPa	/
			Flexural modulus	2470MPa	
5	Shore Hardness	GB/T 2411-2008	D/15:80	/	

Note: Pass : Meet the requirements;  
 Fail : Does not meet the requirements;  
 / : Not Apply to the judgment.

Original Sample Photo:



Sample



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1. Test Item: Vertical Burning

Sample Description: Plastic part

Test Method: UL 94-2013 Rev.9-2018 Section 8

Specimen Size: 100mm×13.0mm×1.99mm

Test Result:

Conditioning	As received :(23±2)°C , (50±5)%RH, 48h					Ageing: (70±2)°C , 168h→ Desiccator, (23±2)°C , 4h				
	1	2	3	4	5	1	2	3	4	5
Specimen										
Afterflame time after the first flame application (s), t <sub>1</sub>	1.2	0.9	5.1	3.2	1.2	2.9	2.9	1.9	2.1	2.9
Afterflame time after the second flame application (s), t <sub>2</sub>	3.3	2.1	6.2	1.1	8.3	3.6	5.2	1.5	8.4	9.7
Afterglow time after the second application (s), t <sub>3</sub>	0	0	0	0	0	0	0	0	0	0
Total afterflame time for any condition set (s), t <sub>1</sub> +t <sub>2</sub>	32.6					41.1				
Afterflame time plus afterglow time after the second flame application (s), t <sub>2</sub> +t <sub>3</sub>	3.3	2.1	6.2	1.1	8.3	3.6	5.2	1.5	8.4	9.7
Whether or not specimen burn up to the holding clamp	No	No	No	No	No	No	No	No	No	No
Whether or not the cotton was ignited by flaming particles or drops	No	No	No	No	No	No	No	No	No	No
Classification	V-0									



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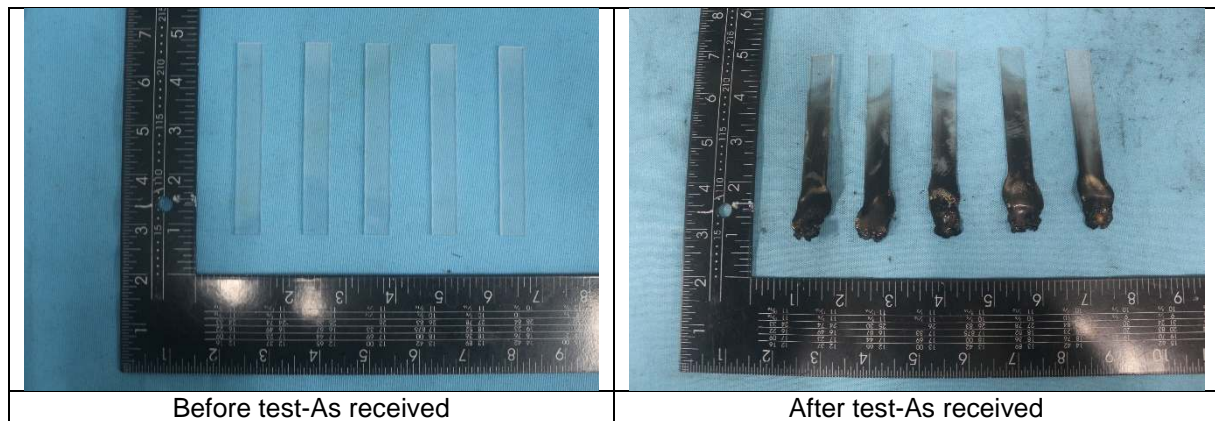
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UL 94-2013 Rev.9-2018 table 8.1

Criteria conditions	V-0	V-1	V-2
Afterflame time for each individual specimen t <sub>1</sub> or t <sub>2</sub>	≤ 10s	≤ 30s	≤ 30s
Total afterflame time for any condition set (t <sub>1</sub> plus t <sub>2</sub> for the 5 specimens)	≤ 50s	≤ 250s	≤ 250s
Afterflame plus afterglow time for each individual specimen after the second flame application (t <sub>2</sub> +t <sub>3</sub> )	≤ 30s	≤ 60s	≤ 60s
Afterflame or afterglow of any specimen up to the holding clamp	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	Yes

Note : Test specimens were cut from the sample.

Test Photo:



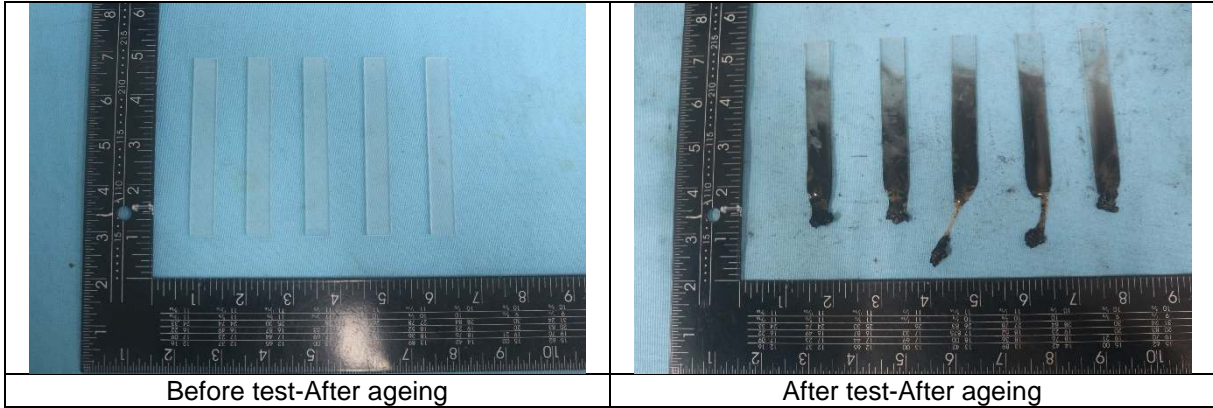
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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Vertical horizontal combustion tester	HYHVT-3	NBES-159-1	2020-01-14	2021-01-13



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2. Test Item: Charpy Notched Impact Strength

Sample Description: Plastic part

Test Method: GB/T 1043.1-2008

Test Condition:

Specimen: GB/T 1043.1/1eA (Notch preparation: machining)

Specimen thickness: 2.80mm

The capacity of the pendulum: 7.5J

Impact speed: 3.8m/s

Span: 62mm

Lab Environmental Condition: 23±2°C, 50±5%RH

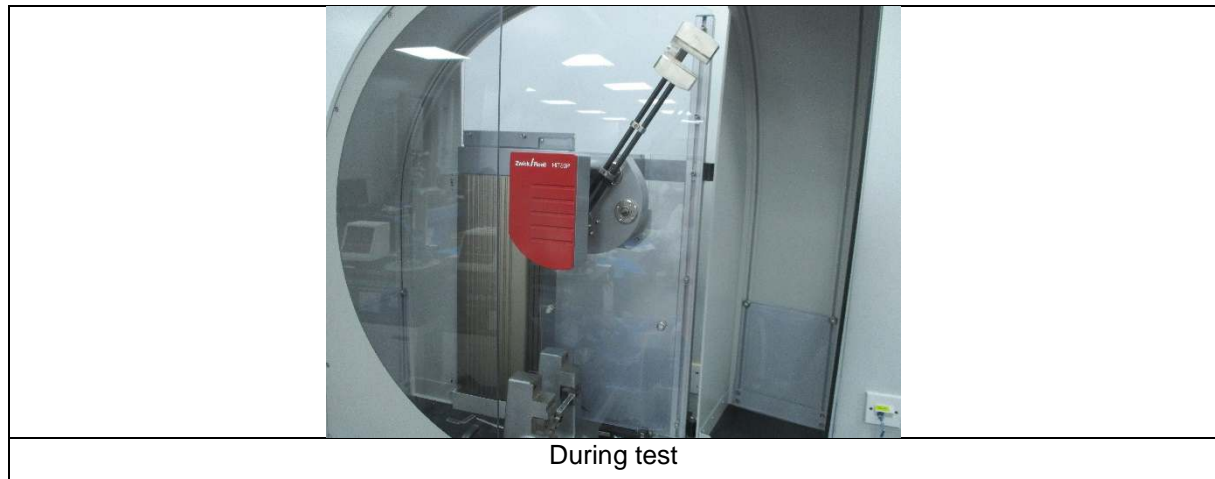
Test Result:

Test Item	Test Result
Charpy Notched Impact Strength	70kJ/m <sup>2</sup> P (Partial break)

Note:

1. Test specimens were cut from the sample.
2. The protected film of test specimens was ripped off before test.

Test Photo:

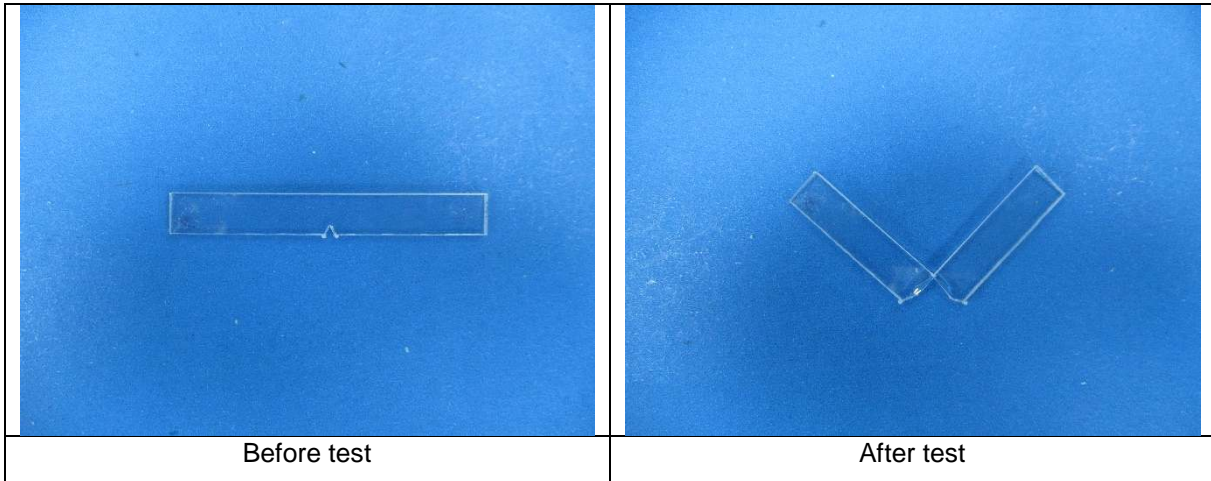


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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Impact Tester	HIT50P	GZMR-PL-E283	2019-12-13	2020-12-12



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3. Test Item: Deflection Temperature under Load

Sample Description: Plastic part

Test Method: GB/T 1634.1-2019 & GB/T 1634.2-2019 Method A

Test Condition:

Specimen: 80mm×10.31mm×2.79mm

Heat-transfer media: Silicone oil

T<sub>f</sub>1.8

Rate of temperature:120°C/h

Span: 64mm

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Deflection Temperature under Load	132°C

Note:

1. Test specimens were cut from the sample.
2. The protected film of test specimens was ripped off before test.

Test Photo:



During test



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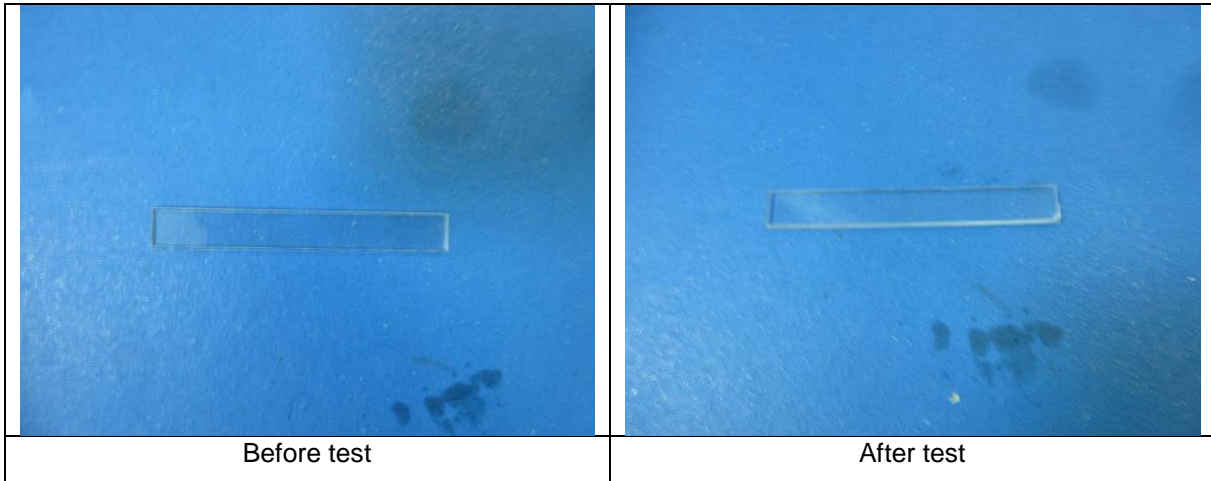


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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
HDT and VICAT Tester	6970.000	GZMR-PL-E091	2020-02-26	2021-02-25



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4. Test Item: Flexural Test

Sample Description: Plastic part

Test Method: GB/T 9341-2008

Test Condition:

Specimen:60mm×25.21mm×2.80mm

Testing speed:1 mm/min

Span:44 mm

Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result
Flexural Strength	105MPa
Flexural Modulus	2470MPa

Note:

1. Test specimens were cut from the sample.
2. The protected film of test specimens was ripped off before test.



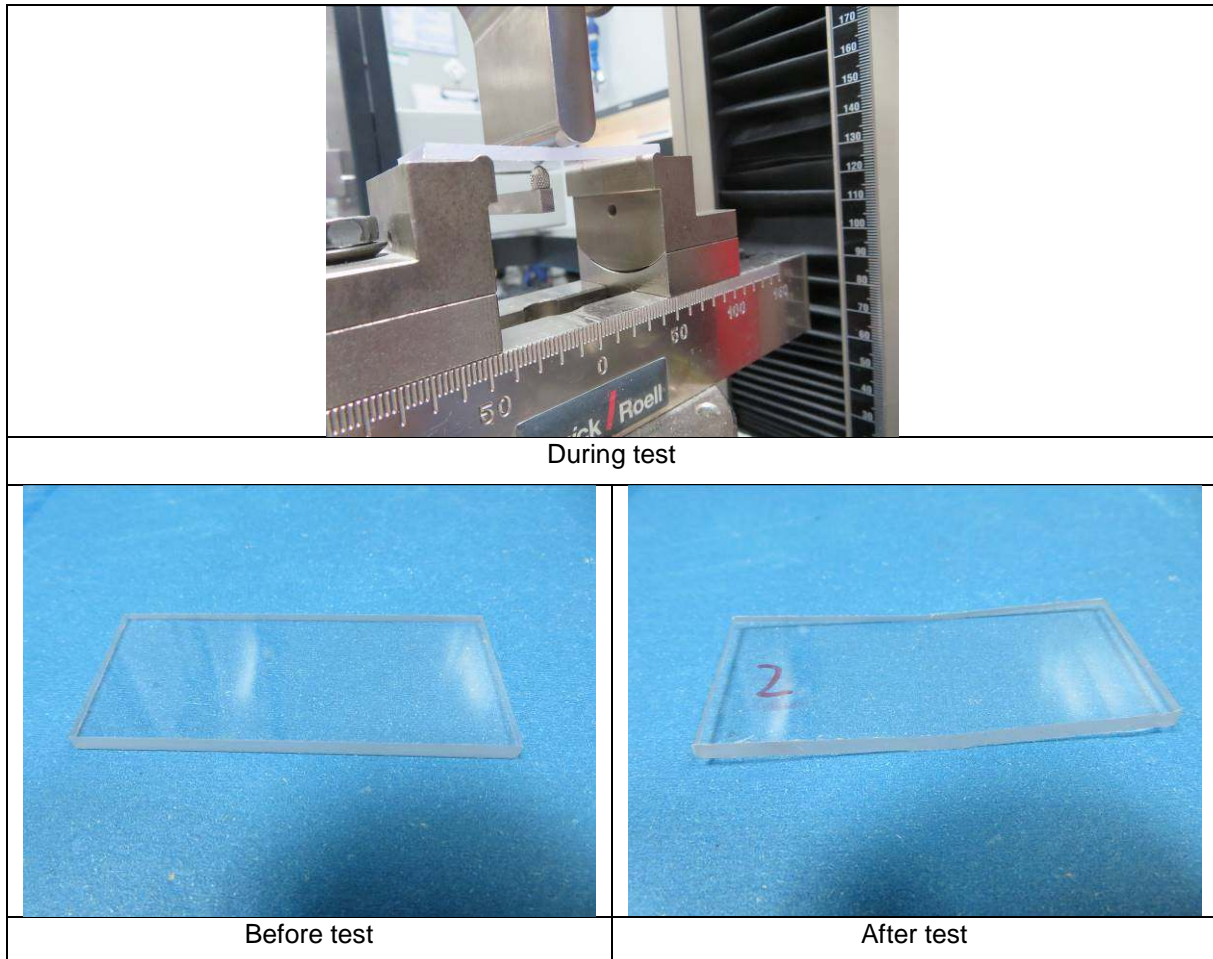
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Test Photo:



Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	Z1.0	GZMR-PL-E252	2020-02-26	2021-02-25

Equipment Information:



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5. Test Item: Shore Hardness

Sample Description: Plastic part

Test Method: GB/T 2411-2008

Test Condition:

Specimen thickness: 5.68mm (2 layers plied up)

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Shore Hardness	D/15:80

Note:

1. D/15:X Indicates that D is the type of durometer; 15 s is the reading time; X is the hardness value.
2. The protected film of test specimens was ripped off before test.
3. Test specimens were cut from the sample.



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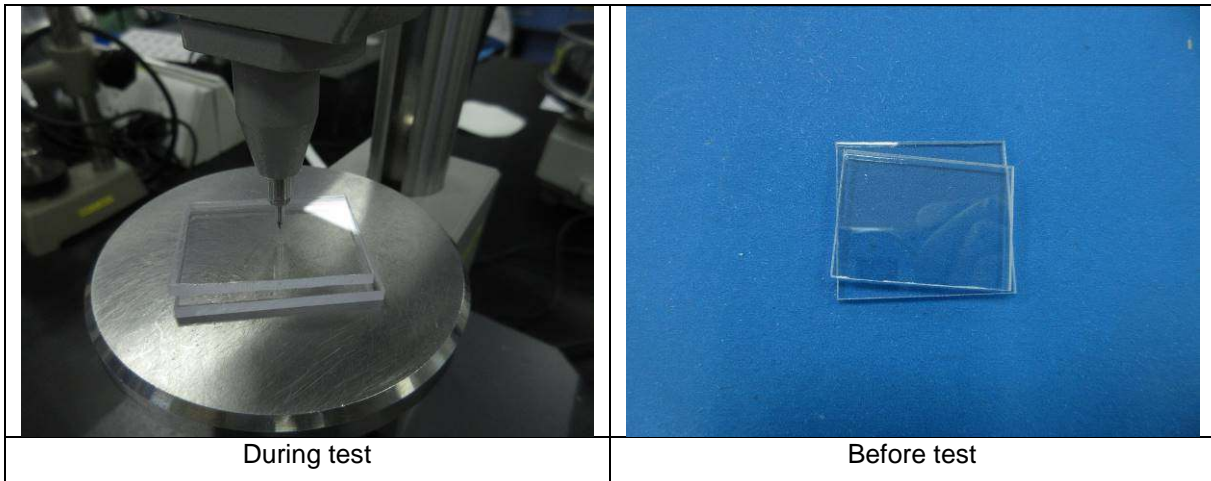
## TEST REPORT

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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Multifunction Hardness Tester	Digitest II	GZMR-PL-E156	2019-05-17	2020-05-16

- Test item2 ~ 5 was/were carried out by other SGS laboratory.

\*\*\*\*\* End of report \*\*\*\*\*



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