



# TEST REPORT

No. : GZIN2507002671PL01\_EN

Date : 2025-07-28

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CUSTOMER NAME: T.INGENIATOR TEXTILE (UK) LIMITED  
ADDRESS: FOURTH FLOOR,50 MARK LANE, LONDON,UNITED KINGDOM,EC3R 7QR

Sample Name : T.INGENIATOR GOLD THREAD

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 : 2025-07-14  
Testing Period : 2025-07-14 ~ 2025-07-28  
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. Guangzhou  
Branch.

Quincey Lee  
Authorized signatory

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Test Item: FIB+TEM+EDS

Environmental Conditions: Temperature: 21.3°C Humidity: 53%RH

Reference Standard:

JY/T 0584-2020 General rules of analytical methods for scanning electron microscope ,  
GB/T 17359-2023 Microbeam analysis—Quantitative analysis using energy-dispersive spectrometry (EDS) for elements with an atomic number of 11 (Na) or above,  
According to customer requirements.

Test Flow and Condition: After the surface of the sample was plated Pt 25s, the sample was put into the SEM sample room according to the standard operating procedure to conduct magnification observation and testing required by the customer.

Test Result:

Component	Thickness Unit: nm			Average value
	1	2	3	
Au	51.7	48.9	59.2	53.3

Note: The EDS method can only semi-quantitation and the light elements or Wt% below 1% elements might not detected or inaccurately quantified.

\*Test project/method was carried out by subcontractors.

Element	Family	Atomic Fraction (%)	Atomic Error (%)	Mass Fraction (%)	Mass Error (%)	Fit Error (%)
Au	L	100.00	0.00	100.00	0.00	0.08
Au	L	100.00	0.00	100.00	0.00	0.05

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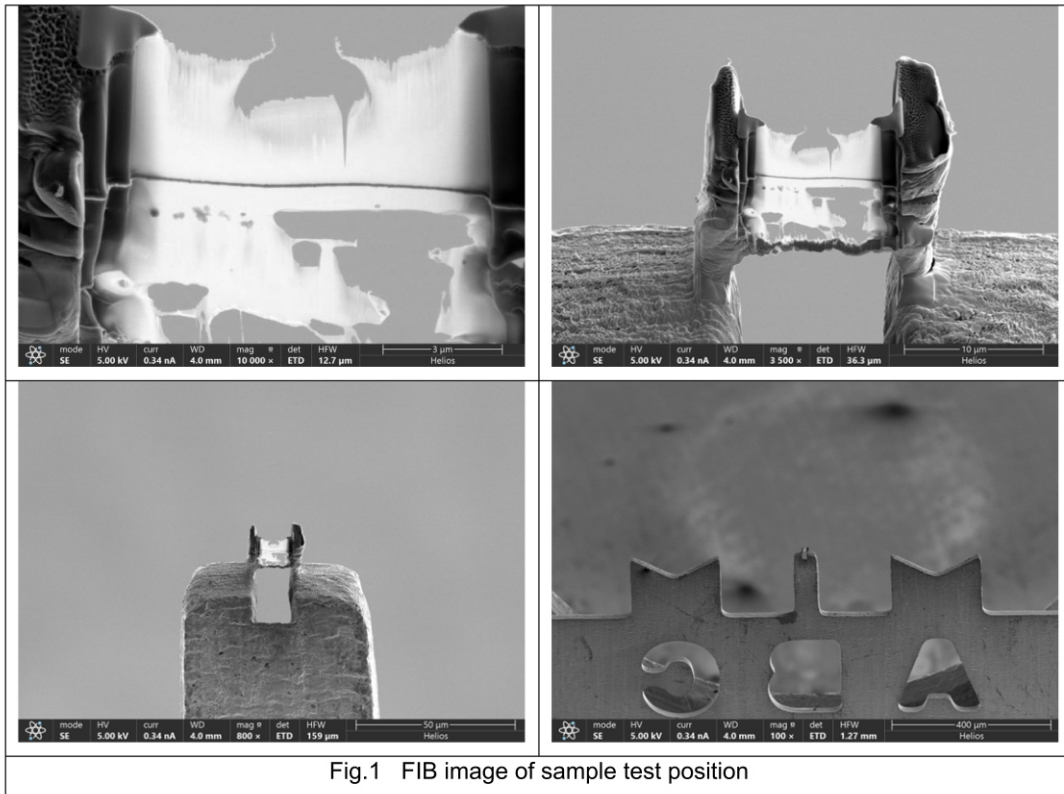


Fig.1 FIB image of sample test position

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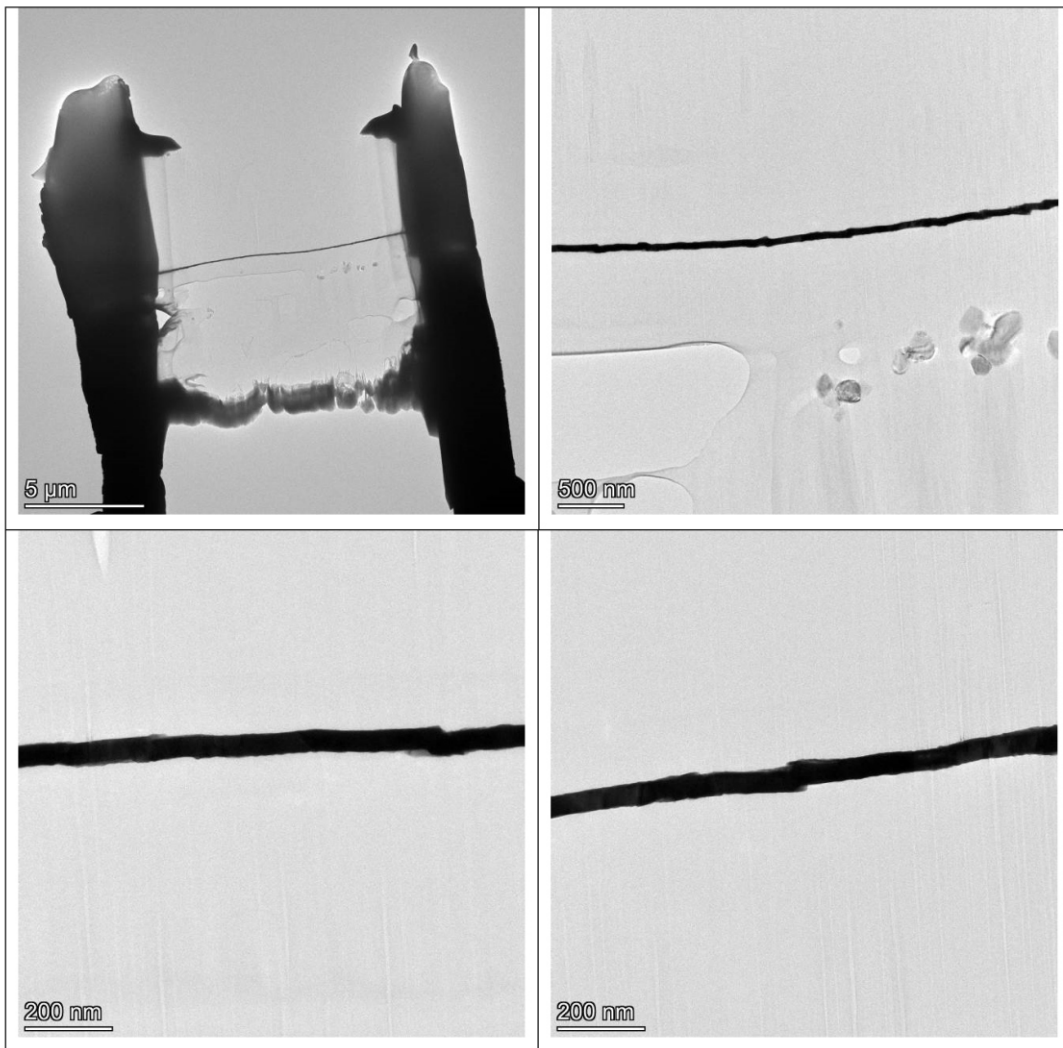
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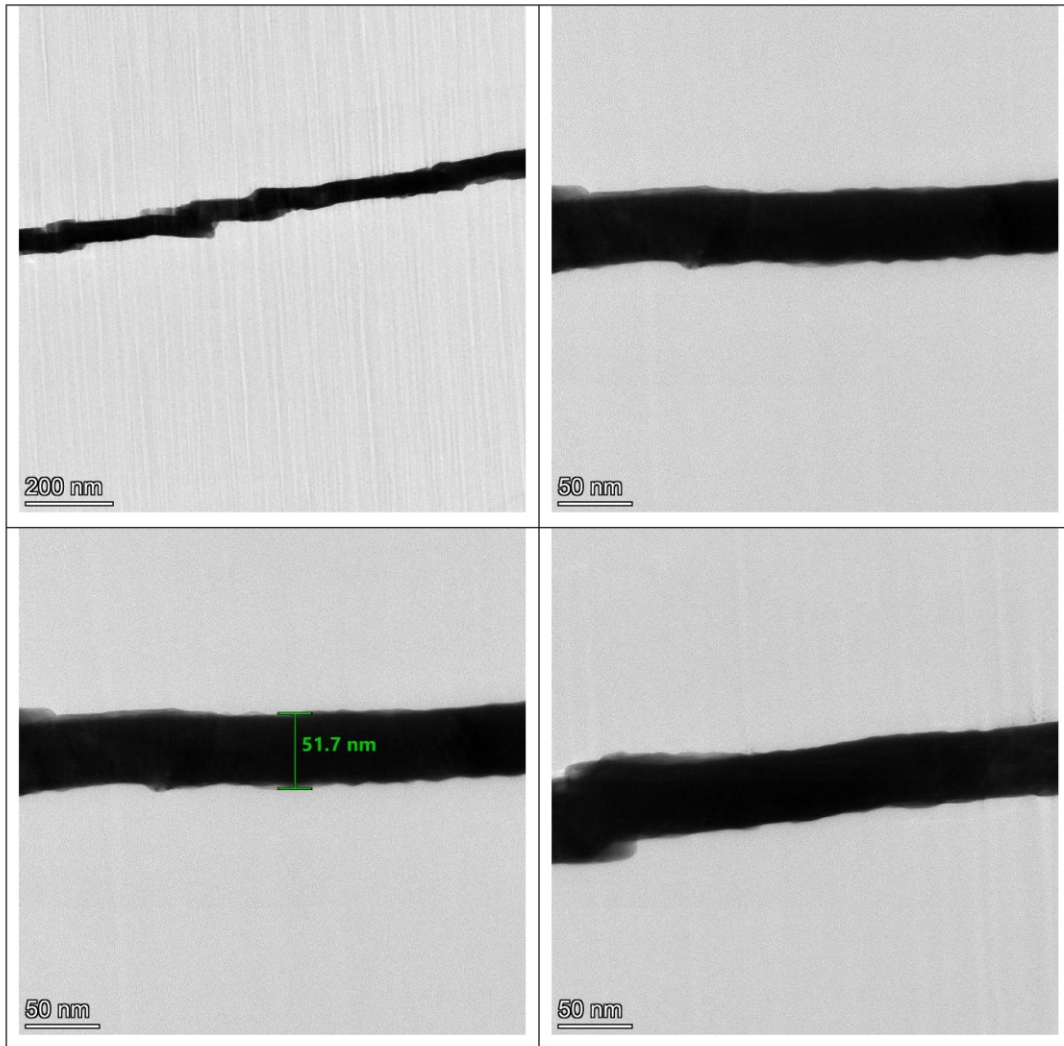


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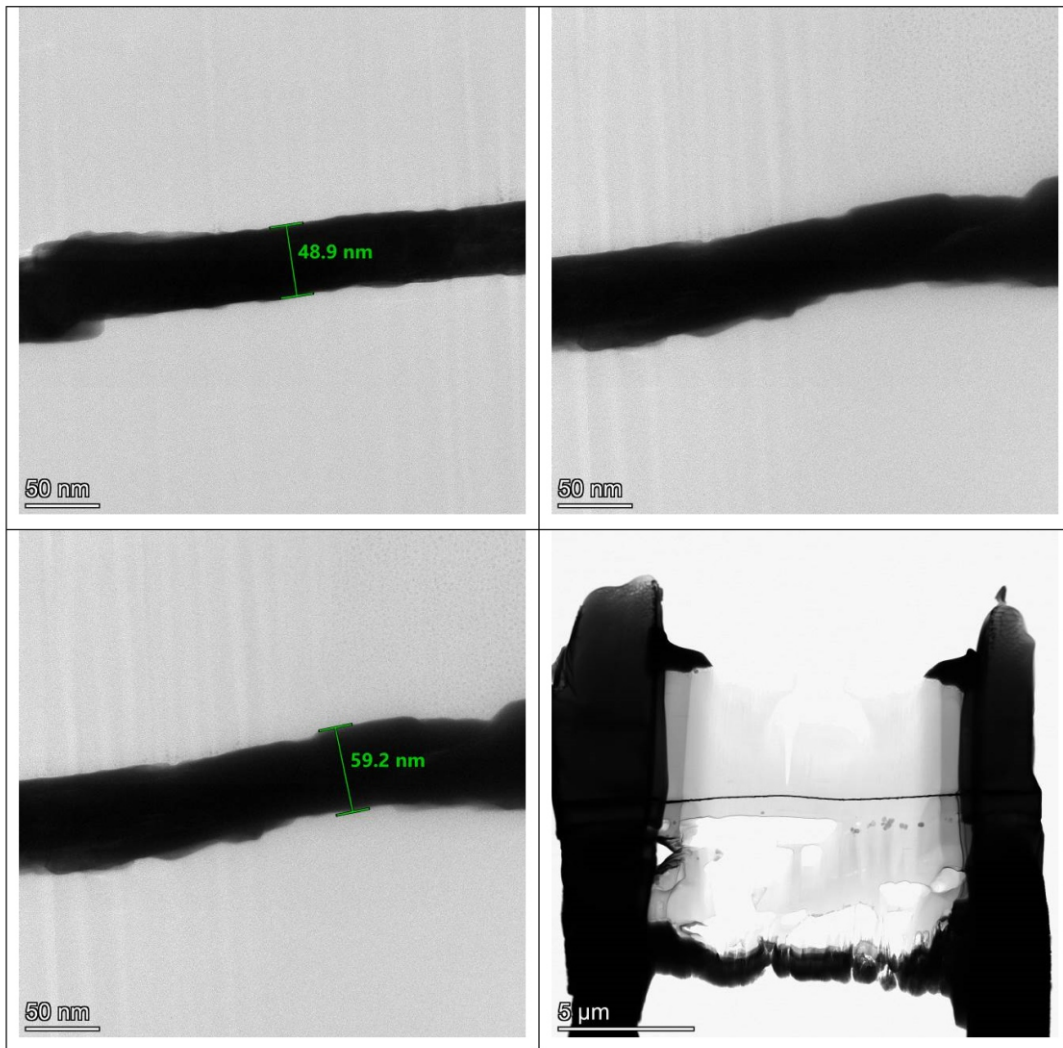
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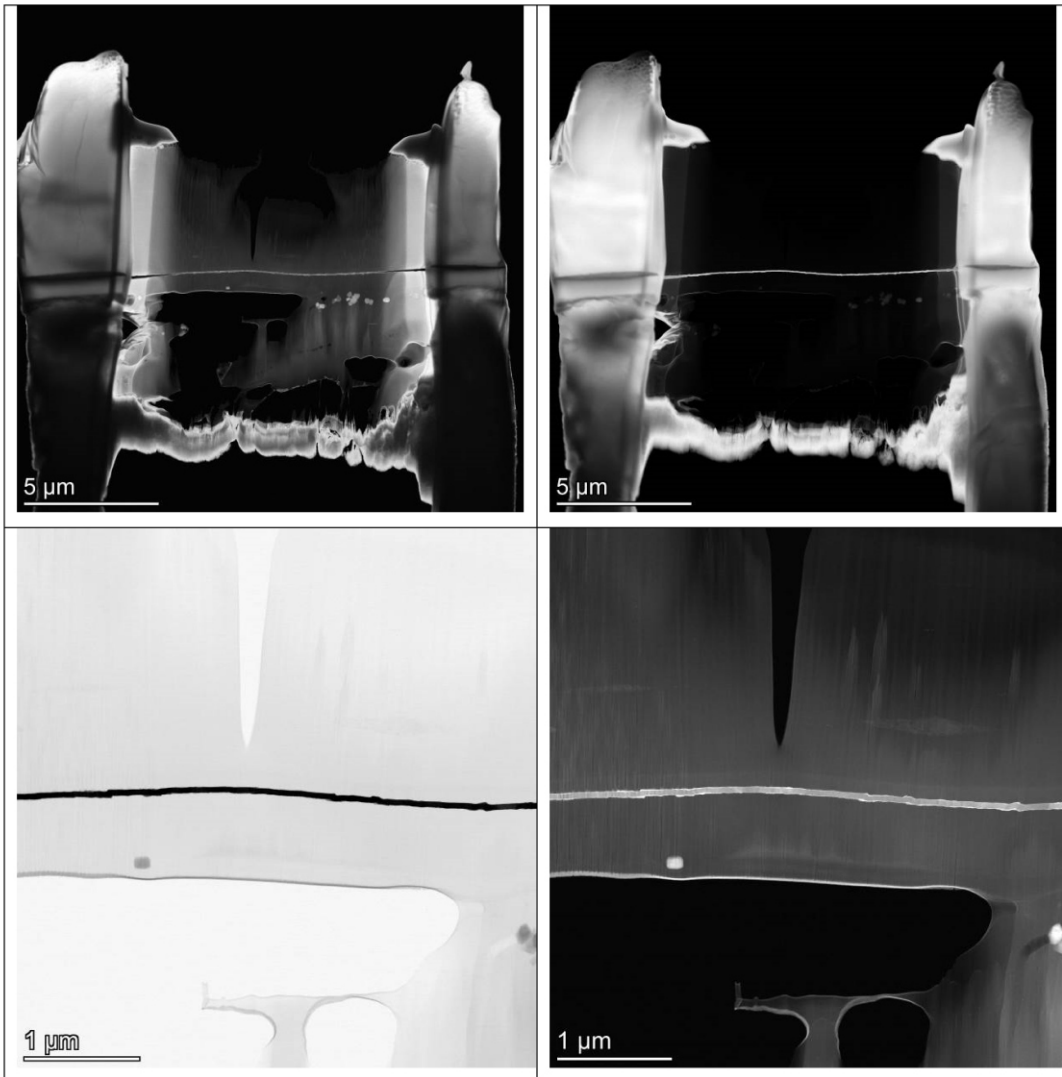
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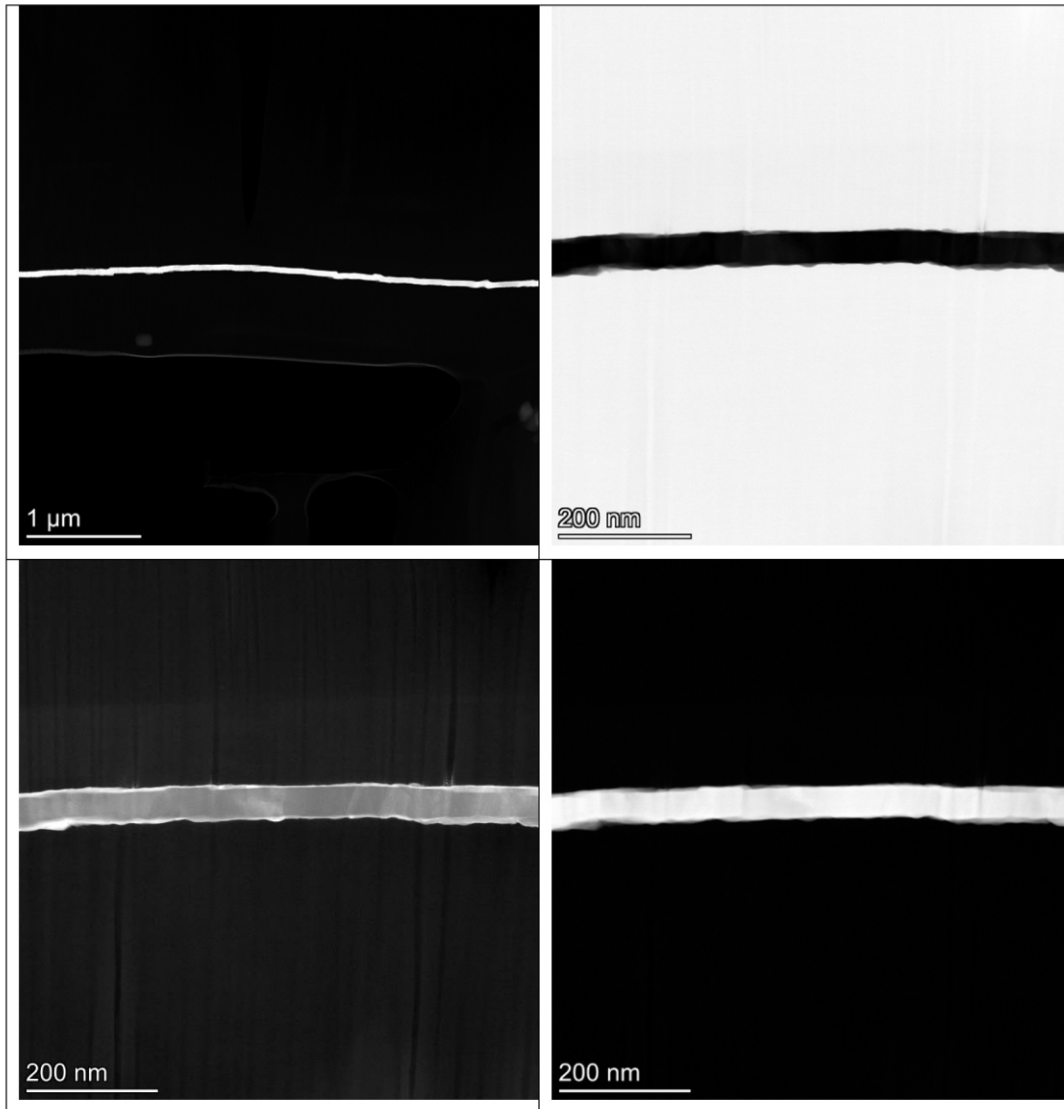
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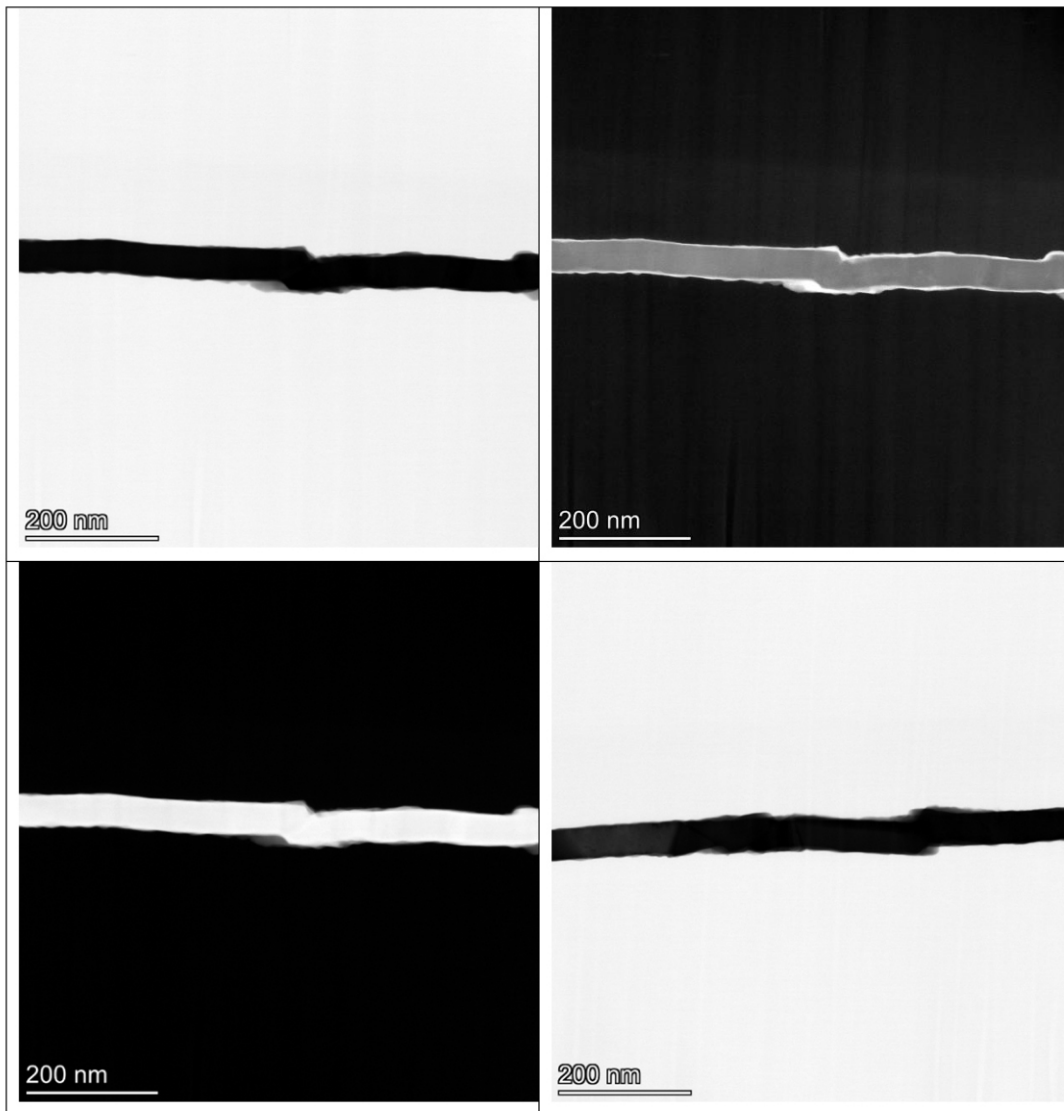
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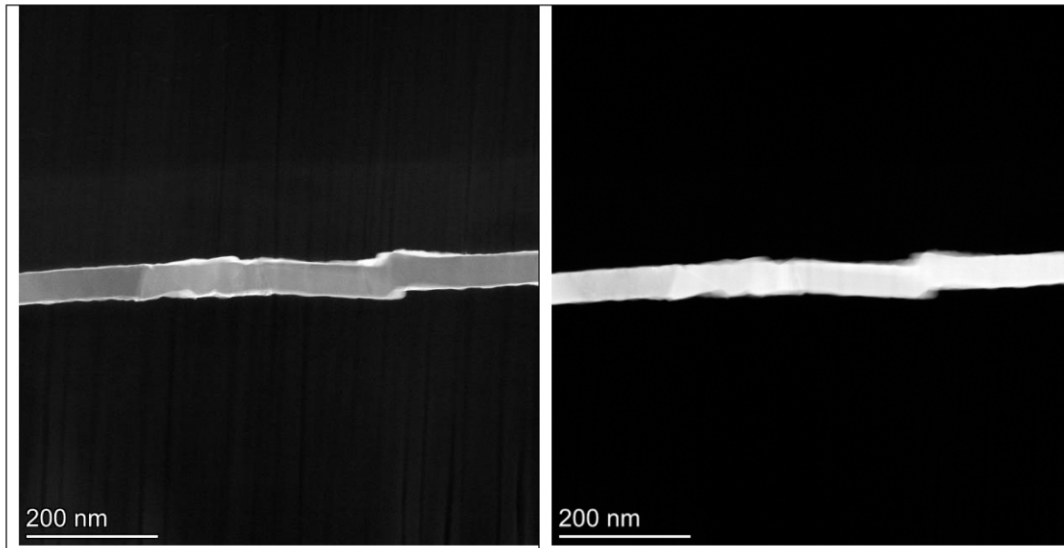
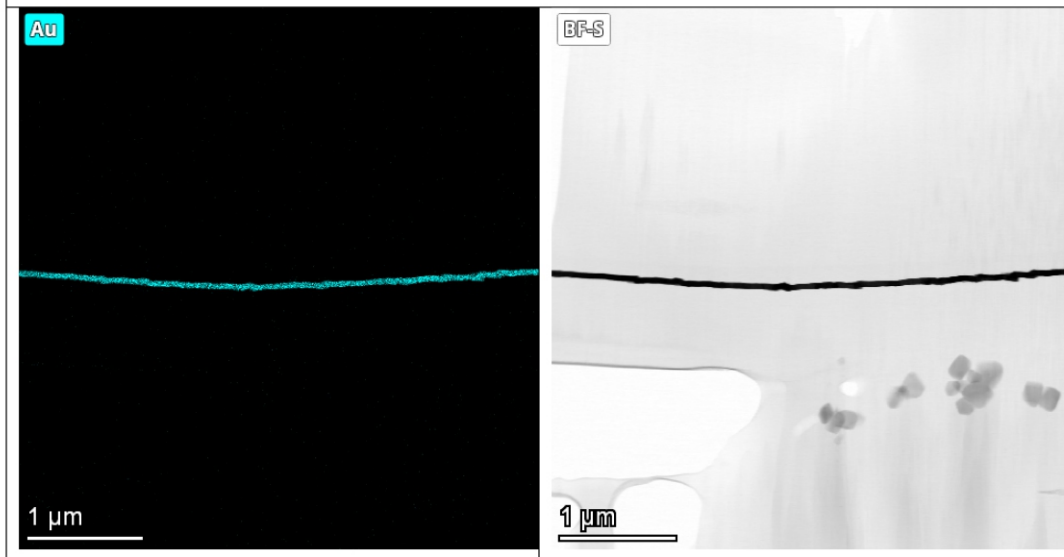


Fig.2 Sample test result representative picture



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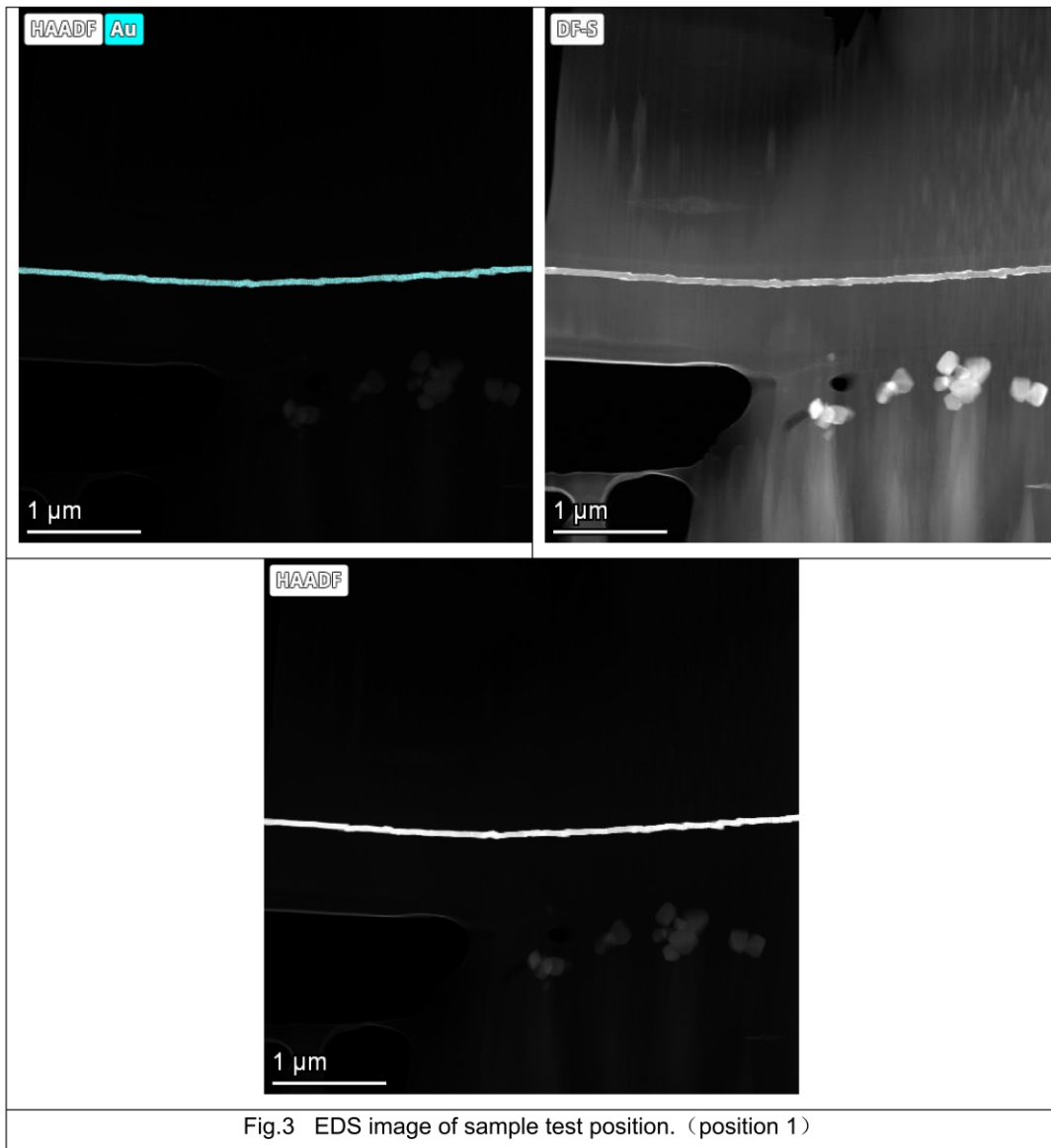


Fig.3 EDS image of sample test position. ( position 1 )

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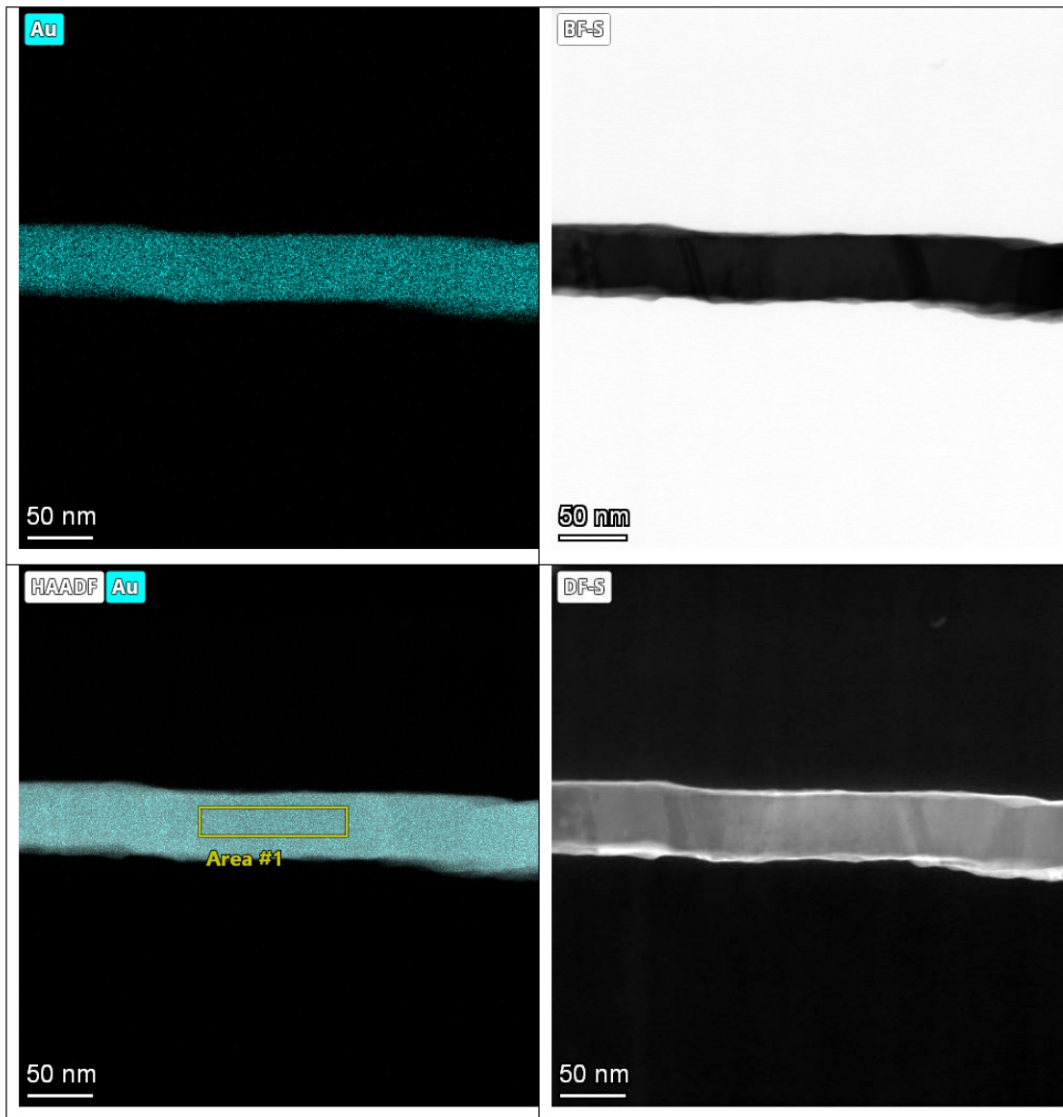
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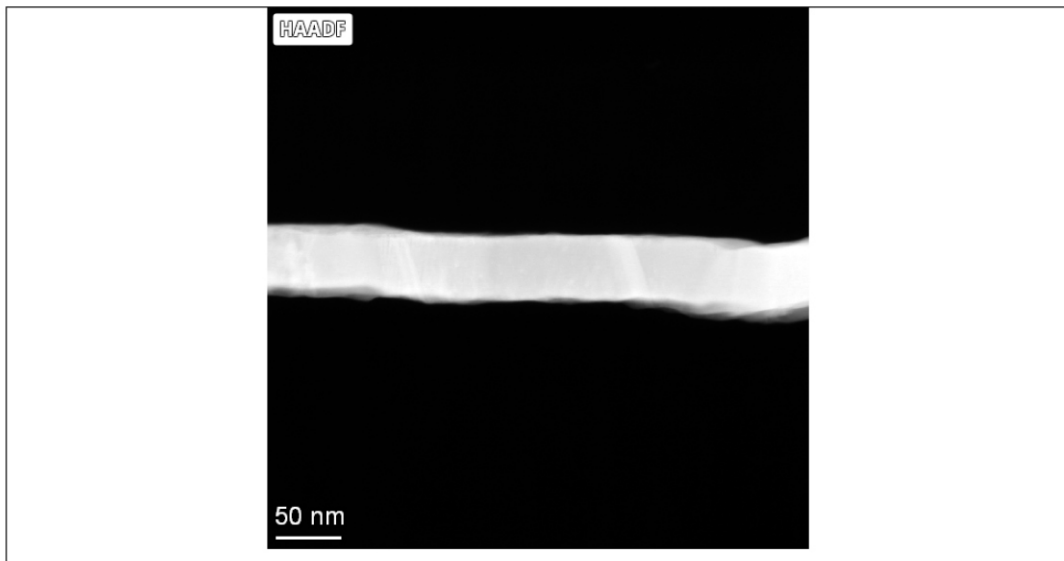
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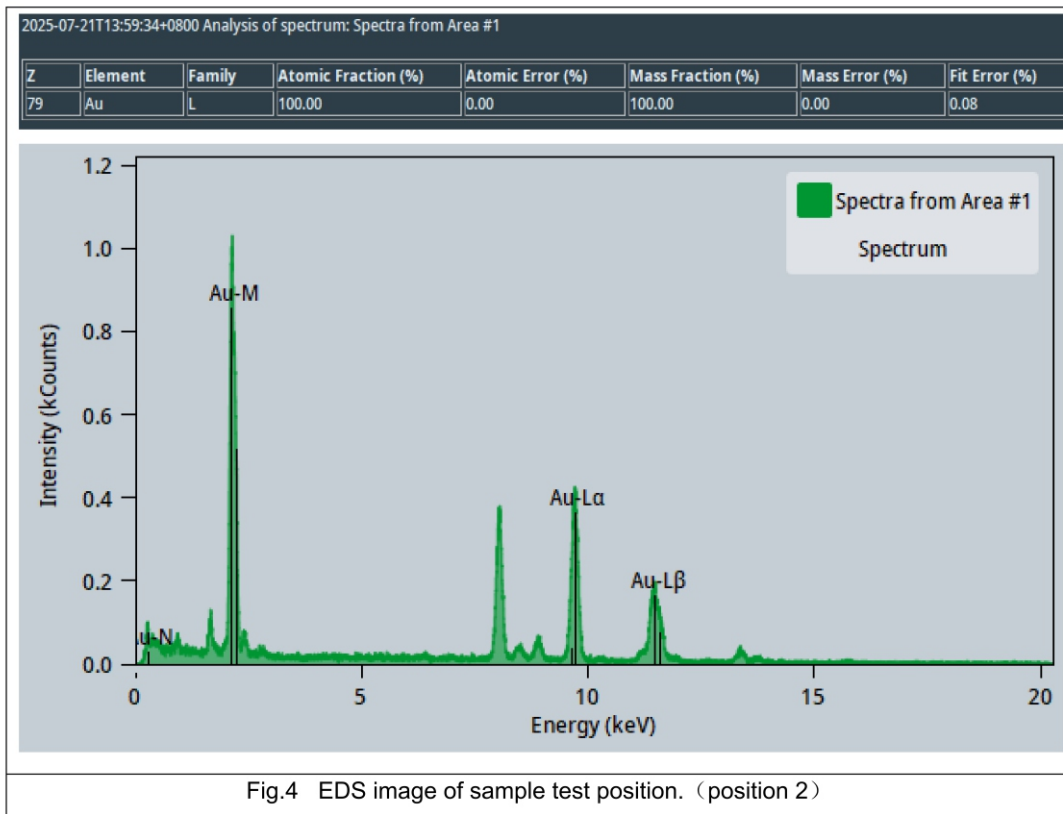
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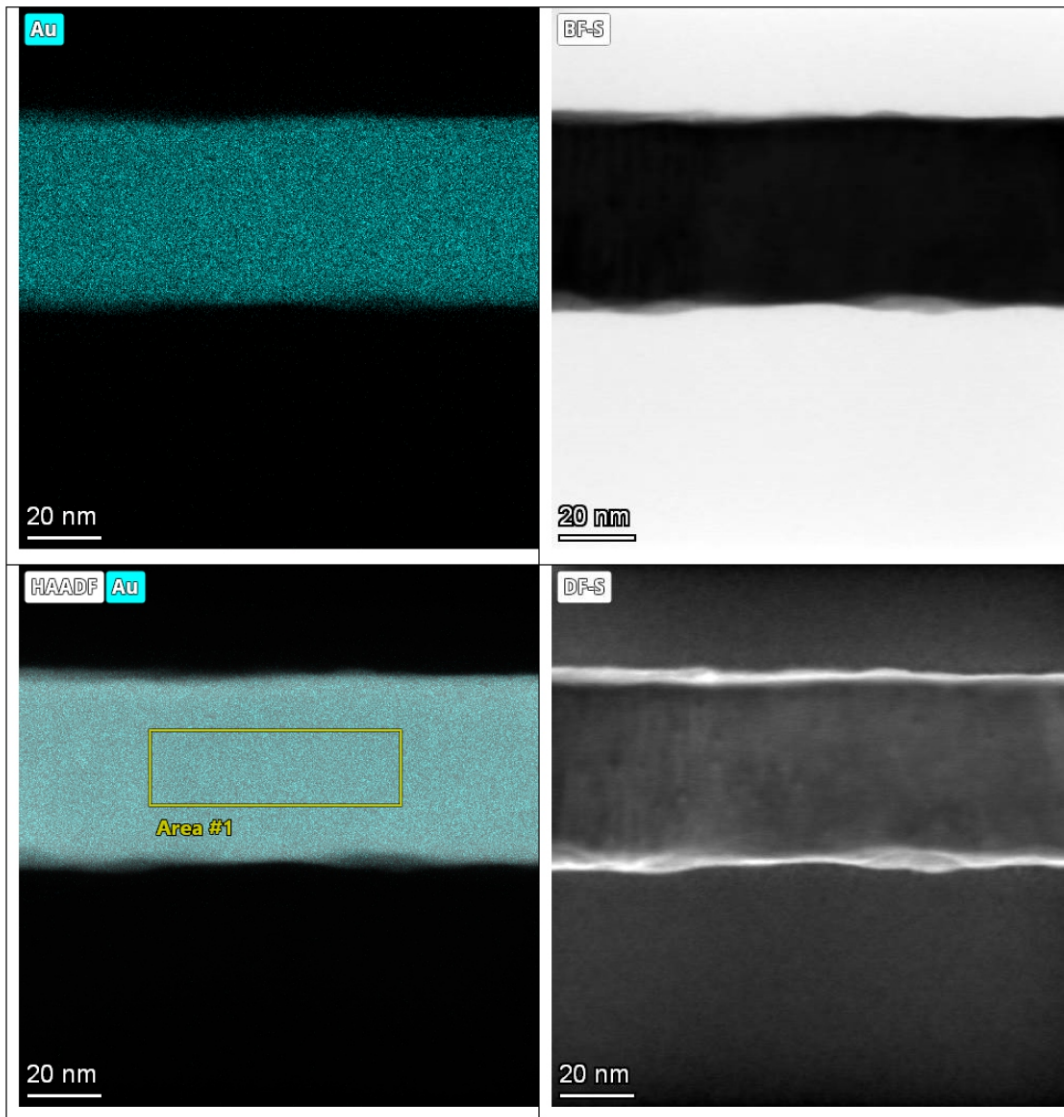


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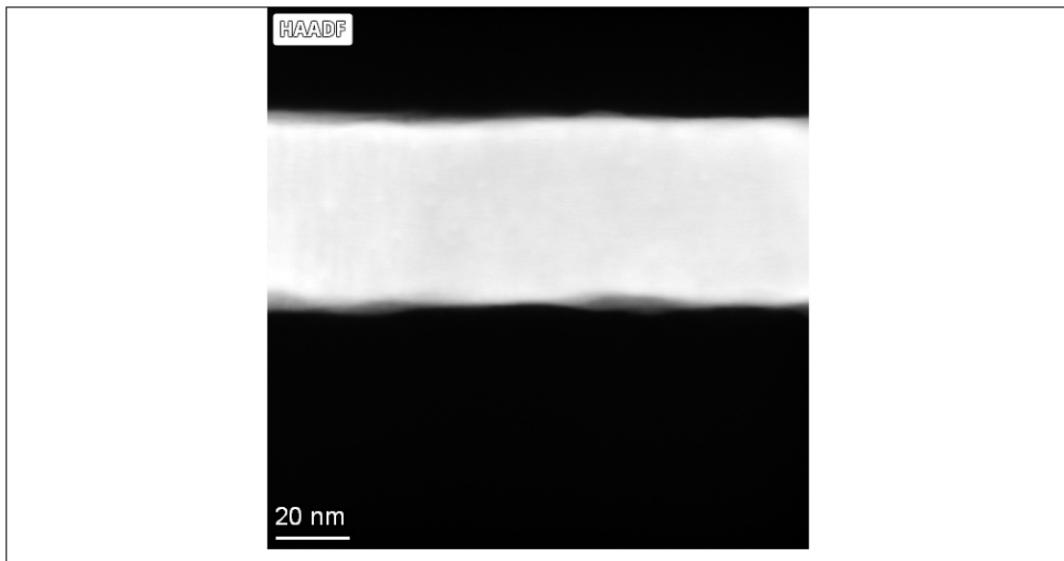
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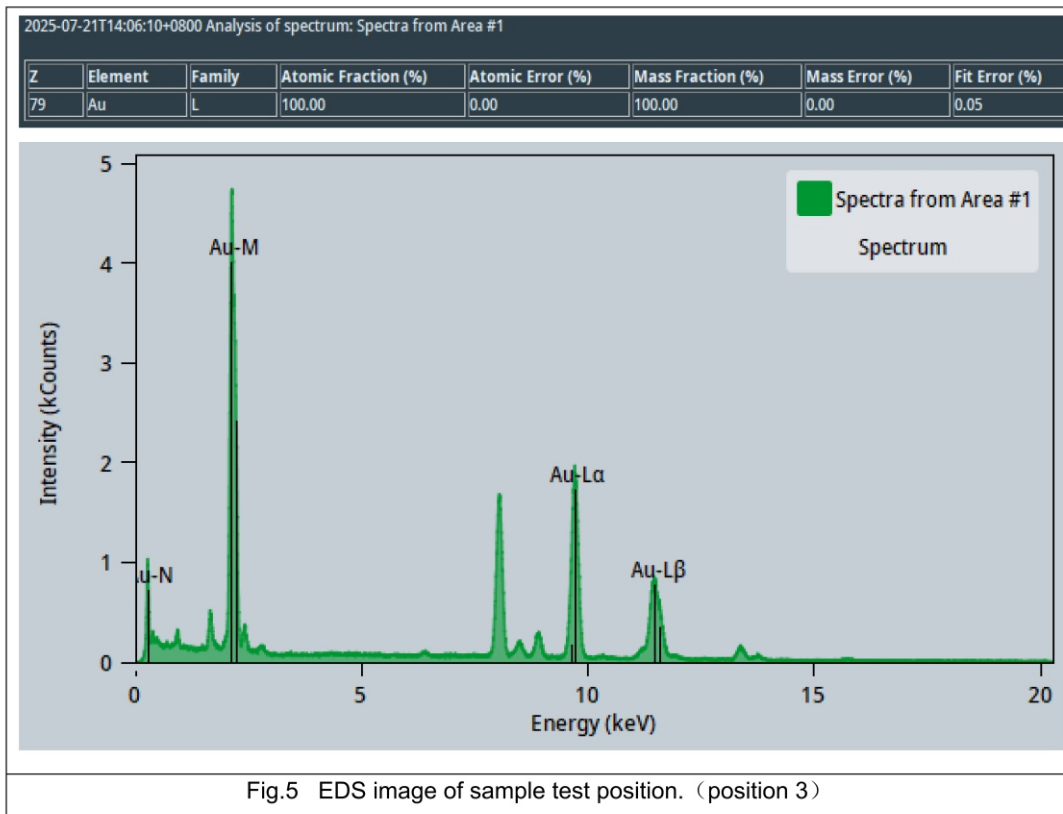
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Sample Photo:



Test Equipment:

Equipment Name	Equipment Model	Equipment number
FIB	Helios 5 CX	SA-390
TEM+EDS	Talos F200S G2	SA-391

The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

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