



EXPERT Solutions & Services for
YOUR Analytical LABORATORY

Laboratory Equipment Distributor and Full-Service Support Provider

TOFA 2026

Company Introduction – AstrineXLab Group

“Experience behind every recommendation”

Office Ljubljana

Office Zagreb

Office Belgrade



Whom we represent and distribute?

Laboratory Equipment Distributor and Full-Service Support Provider

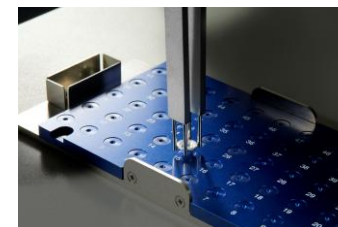


Instruments for pycnometry, gas and vapor adsorption, dynamic chemisorption, intrusion porosimetry, powder rheology, catalyst activity testing, and lab-scale reactor systems, from Micromeritics.



HITACHI

Regional Distributor of Hitachi High-Tech Thermal Analysis instruments portfolio - DSC, STA, DMA, TMA.



Offering complete portfolio of chromatography columns and accessories from MicroSolv Technologies Corp.



REGIS Technologies chiral & SFC columns, Ion-pairing reagents
membraPure partner - solutions for water purification, on-line TOC monitoring, amino acid analyzers

Contact: info@astrinexlab.com



New Webpage – Easy to find correct Equipment by Technique needed

[Home](#)[Equipment](#)[Applications](#)[Events](#)[News & Blog](#)[Partners](#)[Contact Us](#)

Find the right equipment for your material characterization

Choose the technique you're working with – each page shows the instruments that cover it, and the manufacturers behind them.

<https://astrinexlab.com/equipment/>



Porosimetry

Pore size, volume, and distribution within a material's structure – mercury intrusion and flow porosity of membranes and filters.

Micromeritics – a Malvern Panalytical company



BET Specific Surface Area

Specific surface area of a material determined by physical gas adsorption (BET method), including microporosity analysis.

Micromeritics – a Malvern Panalytical company



Density

The ratio of a sample's mass to its volume – true, skeletal, envelope, and bulk density of solids, powders, and shaped parts.

Micromeritics – a Malvern Panalytical company



Gas Adsorption & Chemisorption (Catalysts)

Chemical adsorption of gases onto



Particle Size

Particle size distribution in a powder or suspension, measured by x-ray



Powder Flow

Powder behavior under stress – critical for

New Webpage – Easy to find correct Equipment by Technique needed

BET Specific Surface Area

When to choose this option: You need to measure the specific surface area of a powder or porous material (catalysts, pharmaceutical powders, cement, batteries).

The BET (Brunauer-Emmett-Teller) method determines the specific surface area of a material based on the physical adsorption of a gas (most often nitrogen) onto the sample surface at liquid nitrogen temperature. The same type of measurement (gas physisorption) most often also provides mesopore/micropore size distribution and pore volume. Micromeritics offers a full range of instruments – from a simple instrument for routine QC control (Gemini) to advanced R&D platforms that combine physisorption with chemisorption (3Flex) – so choosing an instrument is primarily a question of throughput, resolution and any need for additional analyses on the same sample.



Which instrument should you choose?

- **Routine QC, one sample per measurement** – simple, reliable, more affordable solution → Gemini
- **Routine/QC laboratory with multiple samples per day** – 3 independent ports, fast BET measurement → TriStar II Plus
- **Large number of samples, production/service QC** – modular up to 6 ports (2460) or 6 fixed ports with 12 degas stations (2425) → ASAP 2460 & 2425
- **Advanced R&D – highest resolution, ultra-micropores, vapor sorption and/or chemisorption on the same platform** (MOFs, zeolites, catalysts) → 3Flex

Instruments



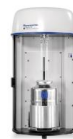
3Flex



ASAP 2460 &



TriStar II Plus

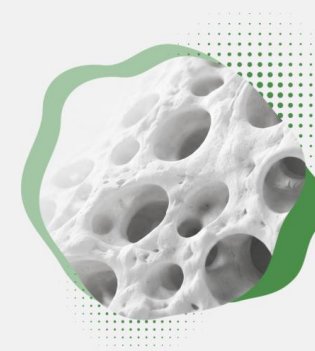


Gemini

Porosimetry

When to choose this option: You need pore size distribution, total pore volume, median pore diameter and/or sample density (meso- and macropores), or through-porosity of sheets, membranes and filters.

Porosimetry covers several complementary techniques for measuring the size, volume and distribution of pores within a material's structure: mercury intrusion, capillary flow porosimetry (measuring through-porosity), and gas adsorption (micro- and mesopores – see the "BET Surface Area" option). Micromeritics covers meso- and macropores with mercury porosimetry (AutoPore V), and the through-porosity of sheets, membranes and separators with capillary flow porosimetry (AccuPore); for micro/mesoporosity analysis by gas adsorption (incl. overlap with the BET measurement), see the 3Flex and ASAP series under the "BET Surface Area" option.



Which instrument should you choose?

- **Through-porosity of sheets, membranes, separators or filters** (bubble point, mean flow pore, through-pore size distribution) – without mercury → AccuPore
- **Pore size distribution, total pore volume and/or sample density** (powder, granules, porous solid material, meso- and macropores) – mercury porosimetry → AutoPore V
- **Micro- and mesoporosity analysis, or BET surface area on the same sample** → 3Flex / ASAP series (see the "BET Surface Area" option)

Instruments



Equipment – Micromeritics BET Analyzers



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Instruments



3Flex

[Read more](#)



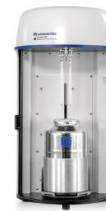
**ASAP 2460 &
2425**

[Read more](#)



TriStar II Plus

[Read more](#)



Gemini

[Read more](#)

New Webpage – Thermal Analyzers

[Home](#) / [Equipment](#) / [Thermal Analysis](#)

Thermal Analysis

Material behavior under heating, cooling, and mechanical load – thermal transitions, mass loss, and viscoelastic properties (DSC, TGA, STA, DMA, TMA).

Choose a technique depending on what you need to find out about material behavior during heating/cooling or under mechanical load.



Choose an option based on your need

DSC – Differential Scanning Calorimetry

Thermal transitions and specific heat capacity.

When to choose: You need to determine thermal transitions (melting, crystallization, glass transition) or the specific heat capacity of polymers, inorganic materials, or pharmaceuticals, without needing simultaneous mass measurement.

[View instruments](#)

STA – Simultaneous Thermal Analysis (TG-DSC)

Mass loss (TGA) and heat flow (DSC), together or standalone.

When to choose: You need sample mass loss during heating (moisture, fillers, decomposition, composite composition) – standalone (TGA) or simultaneous with a DSC signal on the same sample (e.g. quantifying the composition of advanced/composite materials).

[View instruments](#)

DMA – Dynamic Mechanical Analysis

Viscoelastic properties of materials.

When to choose: You need the viscoelastic properties of materials – glass transition under load, stiffness/modulus as a function of frequency (polymers, composites, adhesives).

[View instruments](#)

Models



NEXTA DSC600

[Read more](#)



NEXTA DSC200

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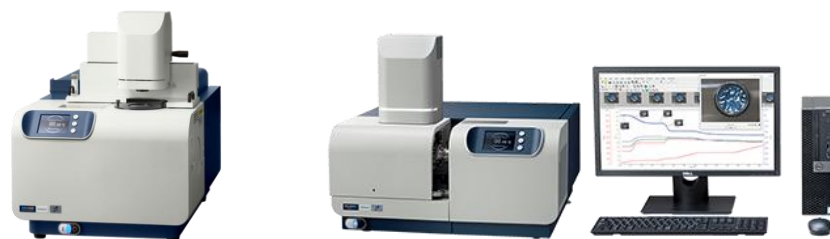
[← BACK TO THERMAL ANALYSIS](#)



Thermal Analysis

HITACHI

DSC - Differential Scanning Calorimeters:
NEXTA DSC600, and NEXTA DSC200



STA/TGA - Simultaneous Thermogravimetric Analyzers NEXTA STA200, STA200RV, and NEXTA STA300

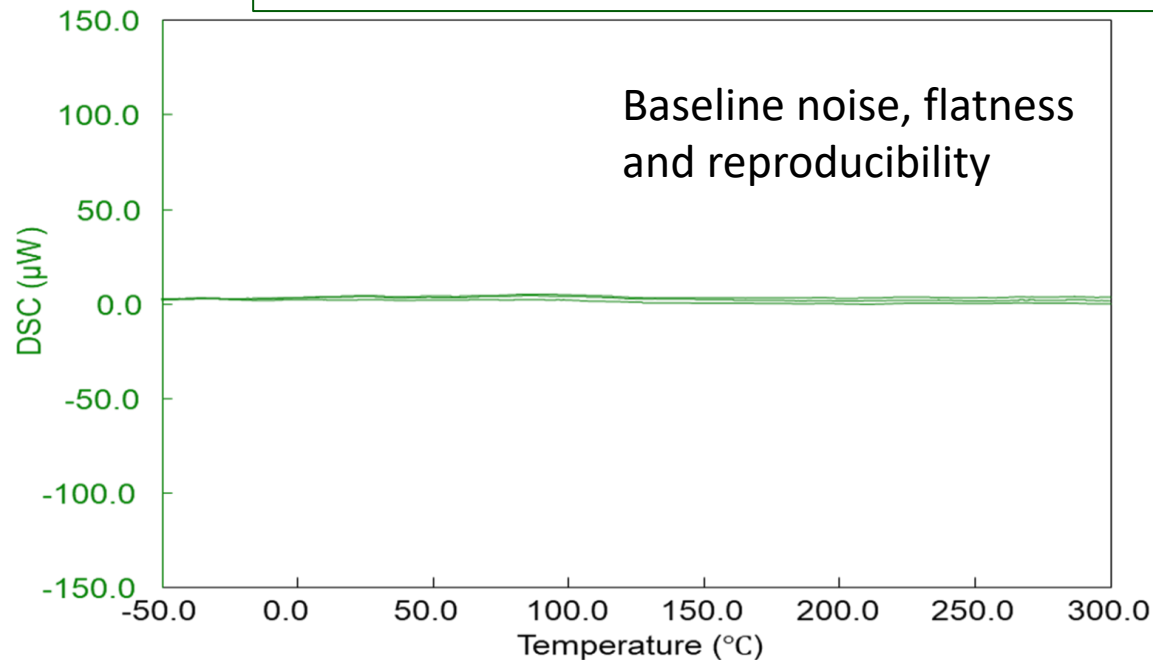
DMA - Dynamic Mechanical Analyzer - NEXTA DMA200



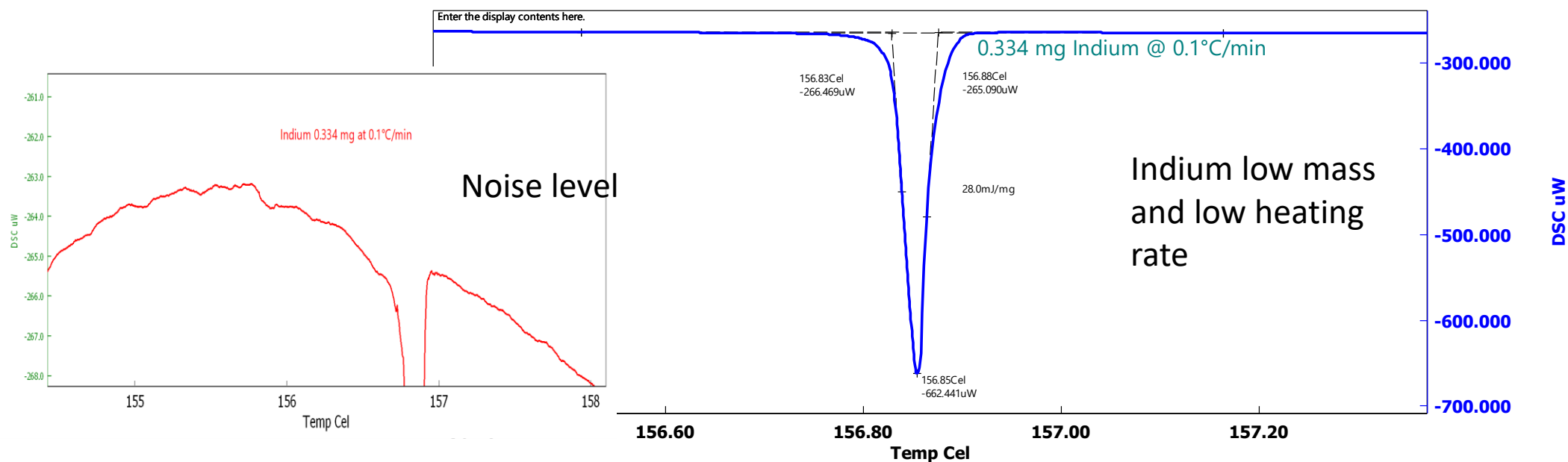
TMA - Thermo Mechanical Analyzers: TMA7100 and TMA7300

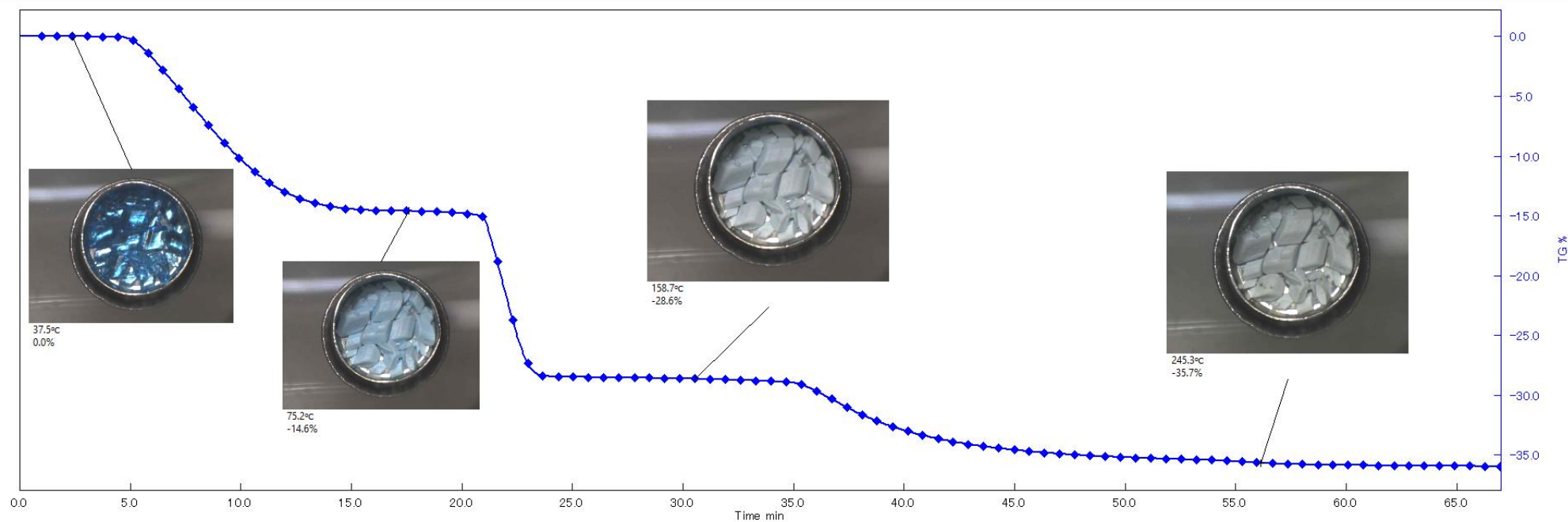
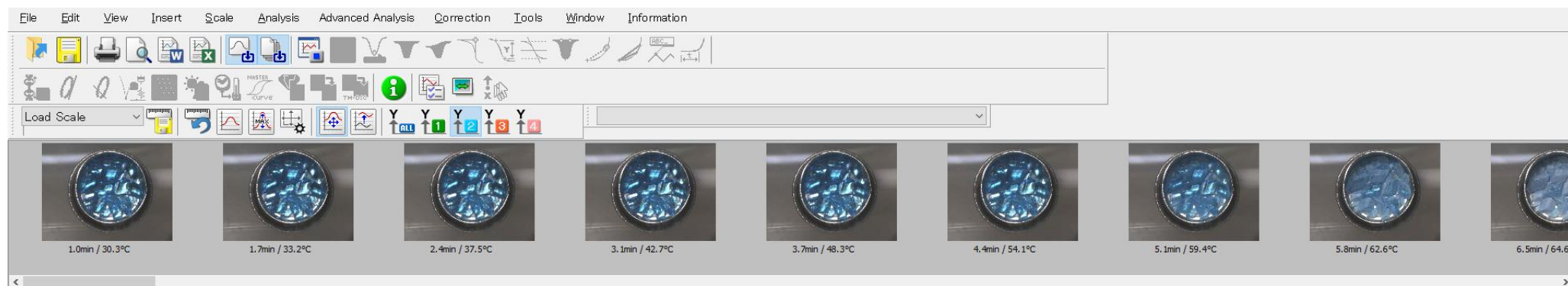
Regional Distributor & full service support: Slovenia, Croatia, Bosnia and Herzegovina

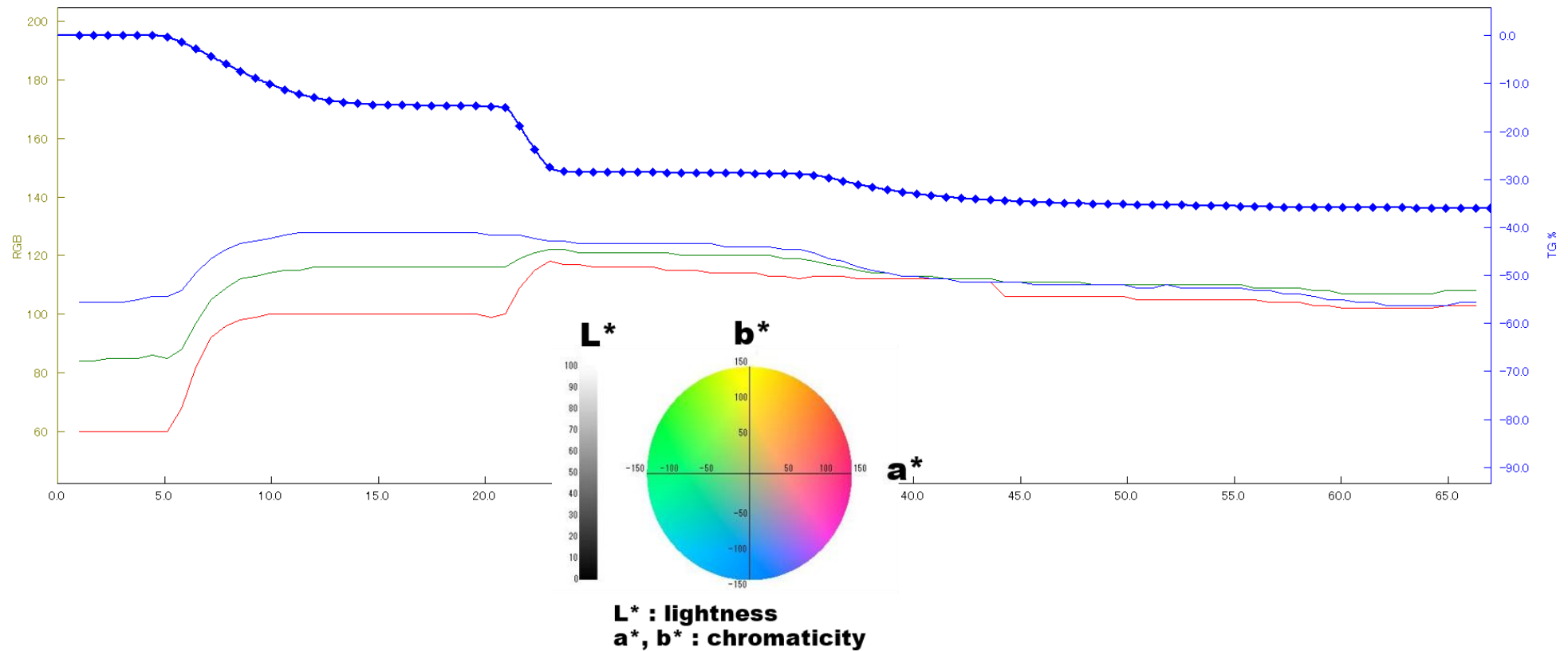
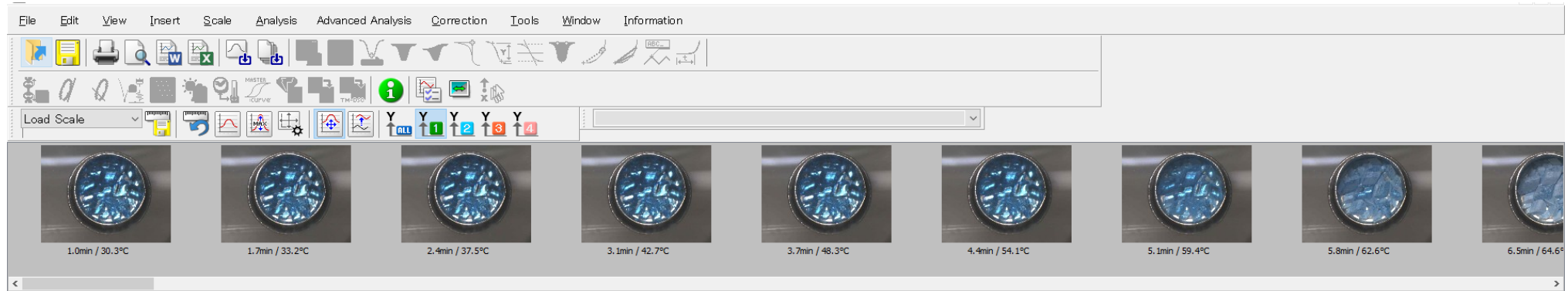
Technical conclusion : Nexta DSC is Top of the market



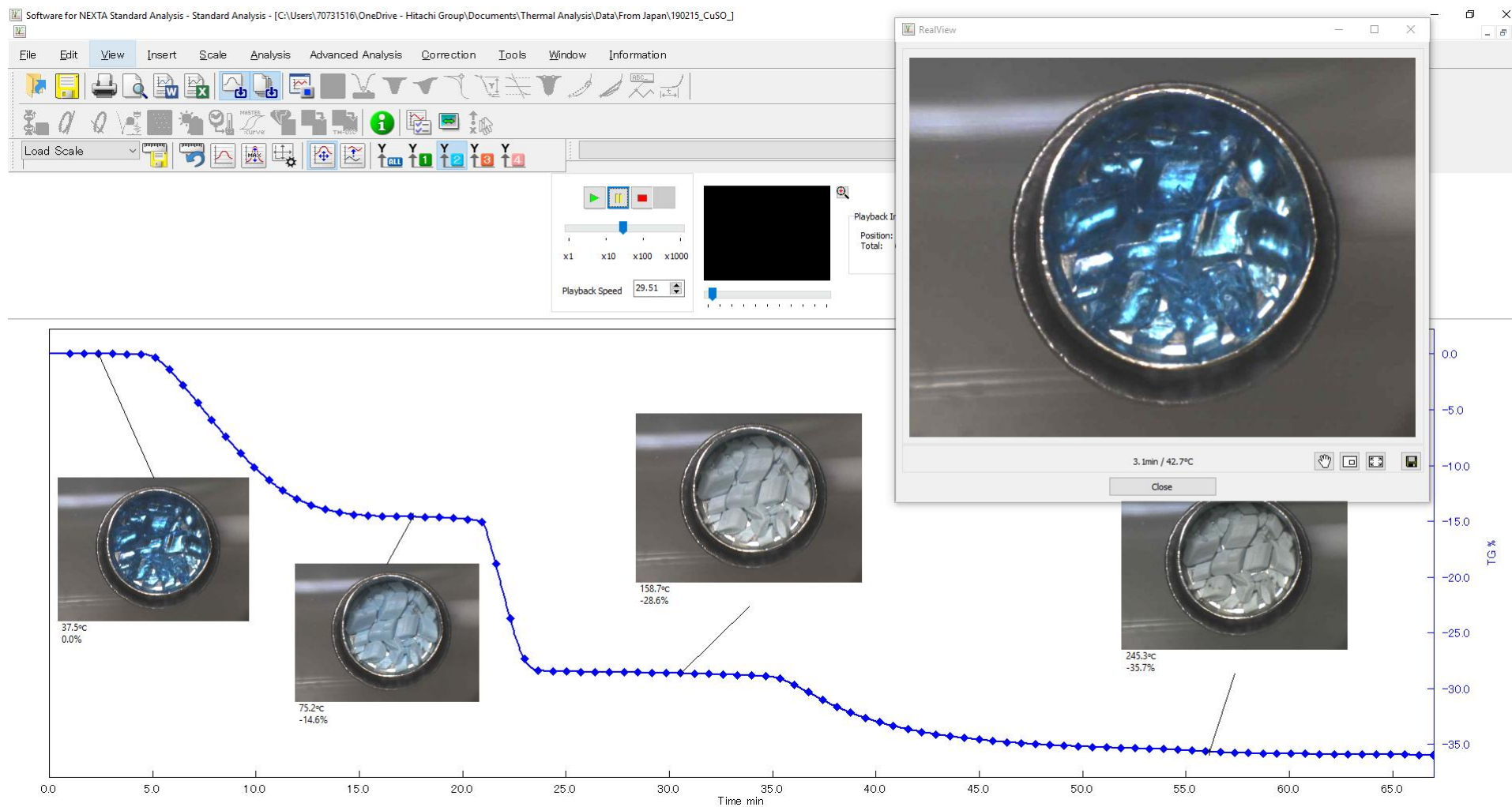
$$\frac{dH}{dt} = C_p \frac{dT}{dt} + f(T,t)$$



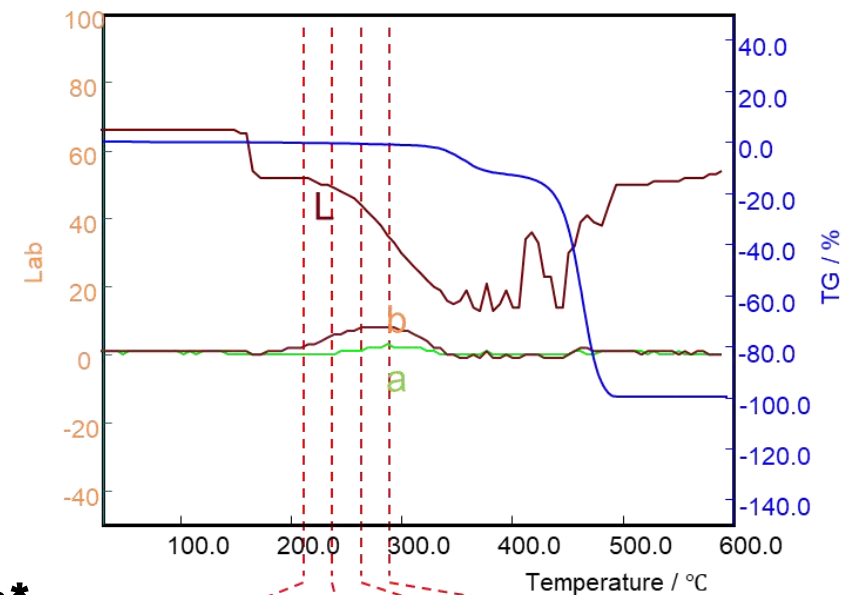
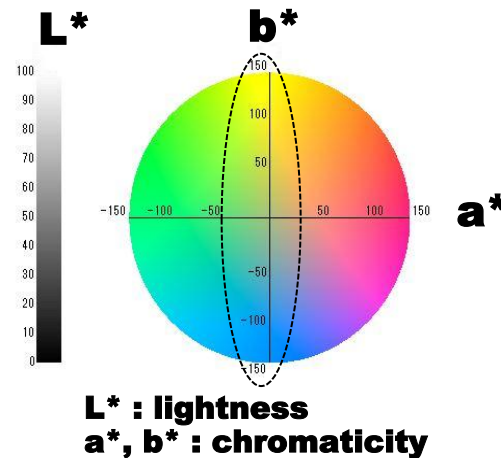




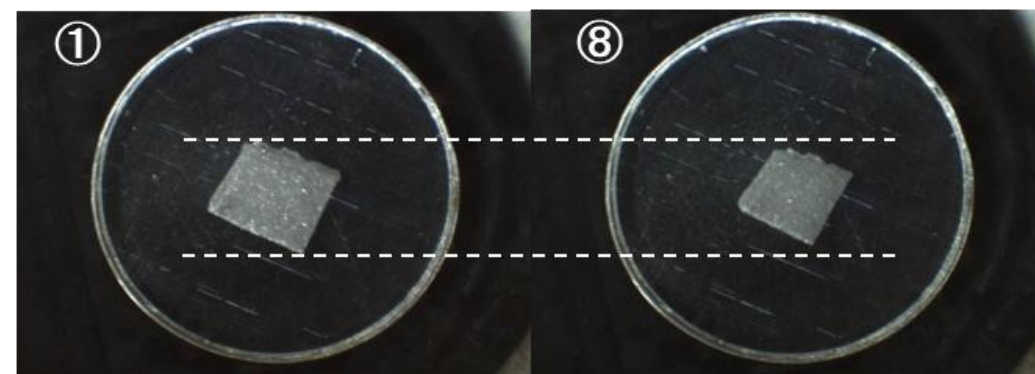
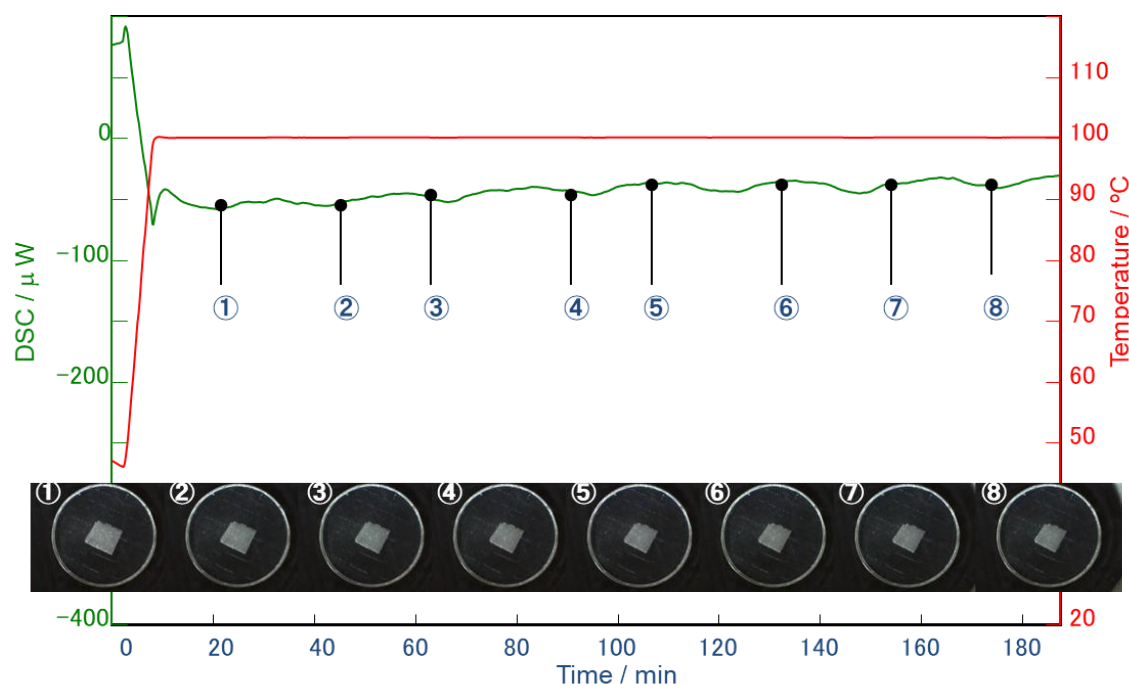
Converting to Video - RealView



- Polymer degradation doesn't always mean weight loss
- PP with 10% Cellulose Nanofiber
- Increase in b^* shows increase in yellowness



- DSC measurement of foamed polystyrene
- Isothermal analysis of the dimension stability



100 $^{\circ}C$ isothermal
Left: after 20 min (① above), Right: after 180 min (⑧ above)



Which model should you choose?

- You need both the flame and graphite furnace methods on the same instrument → **ZA4000 (tandem model)**
- Standard flame analysis, one or a few elements per sample → **ZA4300**
- Very low (trace/ppb) concentrations, graphite furnace only → **ZA4700**
- Flame analysis with multiple elements per sample, higher sample throughput needed → **ZA4800** (rapid sequential, up to 12 elements sequentially)

Models



ZA4800

[Read more](#)



ZA4700

[Read more](#)



ZA4300

[Read more](#)



ZA4000

[Read more](#)



Users Symposium

1st MCS, November 4-6

 **Announcing**

1st MCS — Material Characterization Symposium

"More than measurement"

The first Material Characterization Symposium, organized by AstrinexLab, brings together professionals from industry and academia alongside equipment manufacturer representatives. Three days of lectures and workshops on material characterization – porosimetry, density, sorption, catalysis, powder flow, thermal analysis and AAS – with the instrument manufacturers who build these tools.

Date Nov 4–6, 2026 (Wednesday–Friday)	Location Terme Čatež, Slovenia · accommodation at Hotel Terme
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Presented by

Micromeritics (part of Malvern Panalytical) – November 4–5
Hitachi High – Tech Analytical Science – November 6

56
Days

14
Hours

17
Minutes

Contact us for more information

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Knowledge and experience behind every recommendation.

[Find the right Equipment](#)



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THANK YOU