

526815-2026 - Result

Germany – Mass spectrometer – high-performance TOF-SIMS with SPM (IMWS-13.1) - PR876572-2690-P

OJ S 145/2026 30/07/2026

Contract or concession award notice – standard regime

Supplies

1. Buyer

1.1. Buyer

Official name: Fraunhofer-Gesellschaft - Einkauf B12

Email: einkauf@zv.fraunhofer.de

Legal type of the buyer: Public undertaking

Activity of the contracting authority: General public services

2. Procedure

2.1. Procedure

Title: high-performance TOF-SIMS with SPM (IMWS-13.1) - PR876572-2690-P

Description: high-performance TOF-SIMS with SPM (IMWS-13.1)

Procedure identifier: d2eb16e5-b5a7-4174-ab6d-e8f003e63e81

Internal identifier: PR876572-2690-P

Type of procedure: Negotiated without prior call for competition

2.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38433100 Mass spectrometer

2.1.2. Place of performance

Town: Halle

Postcode: 06120

Country subdivision (NUTS): Halle (Saale), Kreisfreie Stadt (DEE02)

Country: Germany

2.1.4. General information

Legal basis:

Directive 2014/24/EU

vgv -

5. Lot

5.1. Lot: LOT-0000

Title: high-performance TOF-SIMS with SPM (IMWS-13.1) - PR876572-2690-P

Description: 1 High-Performance Time-of-Flight (TOF) Secondary Ion Mass Spectrometry (SPM) with SPM (IMWS-13.1) The Fraunhofer Institute for Microstructure of Materials and Systems IMWS is a method-oriented Fraunhofer Institute specializing in materials science and engineering. Fraunhofer IMWS serves as a contact point for industry and public sector clients for all questions concerning the microstructure of materials and systems - with the aim of increasing material efficiency and cost-effectiveness while conserving resources. Within the

framework of the EU Chips Act, Fraunhofer IMWS plans to acquire a combination instrument that offers the possibility of coupled sample analysis using time-of-flight secondary ion mass spectrometry (ToF-SIMS) and scanning probe microscopy (SPM) of the same sample location in situ. A device is required for trace analysis at micrometer-scale contact interfaces of highly integrated 2.5/3D and QMI devices. This device is intended to detect the elemental composition and/or the lateral and spatial distribution of elements and chemical compounds on sample surfaces and microstructures, with the primary goal of detecting (trace) impurities on and within samples, as well as identifying potential interdiffusion processes. Due to its inherently high sensitivity for fast-acting elements and chemical compounds, Time-of-Flight (ToF) SIMS technology has been identified as a suitable method for the virtually non-destructive detection of trace elements and (including organic) impurities on functional structures, as TOF SIMS enables the detection of trace elements in the ppm-ppb range. A lateral resolution of < 100 nm is required for surface analysis. The ability to visualize the planar distribution of the elements and compounds detected by the analysis must also be provided. Furthermore, it must be possible to register and three-dimensionally represent the distribution of chemical elements and compounds within the sample volume through successive sample removal during acquisition using depth profilometric techniques. Samples with a heterogeneous 3D structure pose a significant challenge for analysis because the removal rate is material-dependent, and additional challenges such as shadowing and roughening effects limit the interpretation of 3D datasets from such demanding samples. Therefore, an instrument is needed that offers a combination of ToF-SIMS and SPM within the same platform in situ. A high feed rate accuracy of < 1 µm between the SPM and ToF-SIMS depth profiling positions is required to analyze the actual sample topography. The goal is to combine the 3D ToF-SIMS datasets with the SPM topography information to generate topography-corrected 3D datasets for heterostructures or components. For the analysis of organic sample systems or complex, integrated heterogeneous inorganic-organic sample systems, the option of gentle depth profiling is also desired - in the sense that mixing or dissolution of (organic) sample components induced by the energy input of the atomizing ion species is minimized. Furthermore, it should be possible to transfer samples with a 10-inch diameter into the instrument without prior reduction in size. Options: see specifications
Internal identifier: LOT-0000

5.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38433100 Mass spectrometer

5.1.2. Place of performance

Town: Halle

Postcode: 06120

Country subdivision (NUTS): Halle (Saale), Kreisfreie Stadt (DEE02)

Country: Germany

5.1.3. Estimated duration

Start date: 27/12/2027

Duration end date: 31/12/2027

5.1.6. General information

Procurement Project fully or partially financed with EU Funds.

The procurement is covered by the Government Procurement Agreement (GPA): yes

5.1.7. Strategic procurement

Aim of strategic procurement: No strategic procurement

5.1.10. Award criteria

Criterion:

Type: Quality

Name: tech. product/ service features

Description: tech. product/ service features

Category of award weight criterion: Weight (percentage, exact)

Award criterion number: 40

Criterion:

Type: Price

Name: Price

Description: Price

Category of award weight criterion: Weight (percentage, exact)

Award criterion number: 60

5.1.15. Techniques

Framework agreement:

No framework agreement

Information about the dynamic purchasing system:

No dynamic purchase system

5.1.16. Further information, mediation and review

Review organisation: Vergabekammern des Bundes

Organisation providing additional information about the procurement procedure: Fraunhofer-Gesellschaft - Einkauf B12

Organisation providing more information on the review procedures: Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.

6. Results

Value of all contracts awarded in this notice: unpublished

Justification code: Research and development (R&D) services

Direct award

:

Justification for direct award: The contract can be provided only by a particular economic operator because of creation or acquisition of a unique work of art or artistic performance

Other justification: See the justification for the award

6.1. Result lot identifier: LOT-0000

Winner selection status: At least one winner was chosen.

6.1.2. Information about winners

Winner:

Official name: IONTOF GmbH

Tender:

Tender identifier: TEN-0001

Identifier of lot or group of lots: LOT-0000

Value of the tender: unpublished

Justification code: Research and development (R&D) services

Subcontracting: No

Contract information:

Identifier of the contract: CON-0001

Date of the conclusion of the contract: 29/07/2026

6.1.4. Statistical information

Received tenders or requests to participate:

Type of received submissions: Tenders

Number of tenders or requests to participate received: 1

Type of received submissions: Tenders submitted electronically

Number of tenders or requests to participate received: 1

Type of received submissions: Tenders from micro, small or medium tenderers

Number of tenders or requests to participate received: 1

Type of received submissions: Tenders from tenderers registered in other European Economic Area countries than the country of the buyer

Number of tenders or requests to participate received: 0

Type of received submissions: Tenders from tenderers registered in countries outside of the European Economic Area

Number of tenders or requests to participate received: 0

8. Organisations

8.1. ORG-7001

Official name: Fraunhofer-Gesellschaft - Einkauf B12

Registration number: DE 129515865

Postal address: Hansastrasse 27c

Town: München

Postcode: 80686

Country subdivision (NUTS): München, Kreisfreie Stadt (DE212)

Country: Germany

Contact point: Einkauf Betrieb und Infrastruktur

Email: einkauf@zv.fraunhofer.de

Telephone: +49891205-0

Internet address: <https://vergabe.fraunhofer.de/>

Buyer profile: <https://vergabe.fraunhofer.de/NetServer/>

Roles of this organisation:

Buyer

Central purchasing body awarding public contracts or concluding framework agreements for works, supplies or services intended for other buyers

Organisation providing additional information about the procurement procedure

8.1. ORG-7004

Official name: Vergabekammern des Bundes

Registration number: t:022894990

Postal address: Kaiser-Friedrich-Straße 16

Town: Bonn

Postcode: 53113

Country subdivision (NUTS): Bonn, Kreisfreie Stadt (DEA22)

Country: Germany

Email: vk@bundeskartellamt.bund.de

Telephone: +49 228 9499-0

Roles of this organisation:

Review organisation

8.1. ORG-7005

Official name: Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.

Registration number: DE-129515865

Postal address: Hansastraße 27c

Town: München

Postcode: 80686

Country subdivision (NUTS): München, Kreisfreie Stadt (DE212)

Country: Germany

Email: einkauf@zv.fraunhofer.de

Telephone: +49 89 1205-0

Internet address: <https://www.fraunhofer.de>

Roles of this organisation:

Organisation providing more information on the review procedures

8.1. ORG-0001

Official name: IONTOF GmbH

Size of the economic operator: Medium

Registration number: 336/5805/0863

Postal address: heisenbergstrasse 15

Town: Münster

Postcode: 48149

Country subdivision (NUTS): Münster, Kreisfreie Stadt (DEA33)

Country: Germany

Email: support@iontof.com

Telephone: +49 2511622200

Roles of this organisation:

Tenderer

Beneficial owner:

Winner of these lots: LOT-0000

8.1. ORG-7006

Official name: Datenservice Öffentlicher Einkauf (in Verantwortung des Beschaffungsamts des BMI)

Registration number: 0204:994-DOEVD-83

Town: Bonn

Postcode: 53119

Country subdivision (NUTS): Bonn, Kreisfreie Stadt (DEA22)

Country: Germany

Email: noreply.esender_hub@bescha.bund.de

Telephone: +49228996100

Roles of this organisation:

TED eSender

Notice information

Notice identifier/version: 9369af3b-2798-41d1-87bb-dcd2332fea2c - 01

Form type: Result

Notice type: Contract or concession award notice – standard regime

Notice subtype: 29

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