

該 非 判 定 書

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対象貨物・役務

GCMS

Thermo ELECTRON 製 Trace DSQ

判定（2019.1.9 施行法令準拠）

輸出令別表第一の	1 項～15 項	非該当
同	16 項	該当
外為令別表の	1 項～15 項	対象外
同	16 項	対象外

判定理由

対象貨物は、分析装置の一種であり、ガスクロマトグラフ(GC)と質量分析計(MS)を組み合わせたものである。ガスクロマトグラフは、輸出令別表第一の1項から15項に掲げられた貨物ではないので、対象貨物のMSの機能について判定する。

輸出令について

質量分析計は、輸出令別表第一の2-(32) 省令1条三十七号で規制され、同号イからホのいずれかに該当するイオン化法を採用したものの一部が規制対象である。対象貨物が採用しているイオン化法のうち、Electron Impact Ionization が、ニに相当するので、以下ニ(一)および(二)について検討するに、対象貨物はニ(二)のコールドトラップを持たない。よって、対象貨物は輸出令別表第一の1項～15項について非該当と判定する。

外為令について

対象貨物には、技術データ・プログラムの類は付属しない。よって、外為令別表のについては対象外と判定する。

添付資料

1. 項目別対比表（全1頁）
2. 対象貨物資料（全2頁）

輸出貿易管理令 別表第1 項目別対比表 (該非判定用)

2019.01.09 施行政省令等対応 (1 / 1)

型及び銘柄: Trace DSQ

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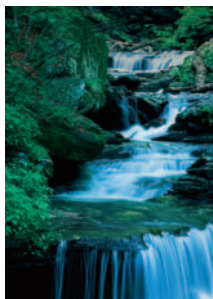
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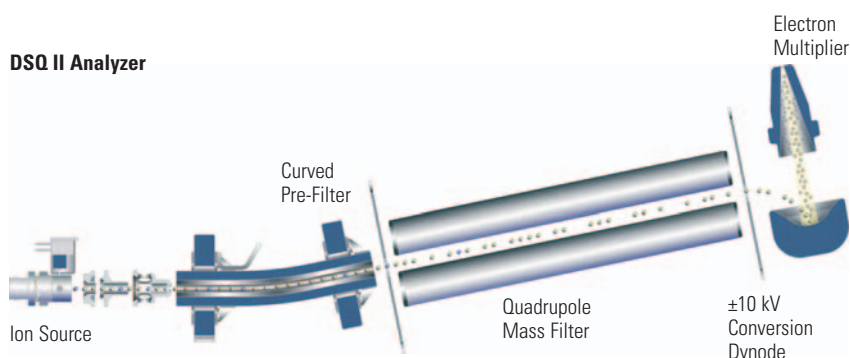
DSQ II Single Quadrupole GC/MS

The reliable and easy to use advanced single quadrupole system

The innovations of the DSQ™ II, including curved prefilter, DuraBrite™ source, and DynaMax XR detection system, offer fundamental improvements in your analytical results. The combination of noise reduction and increased source and detector performance provide unrivaled analytical performance across the widest range of concentrations.



DSQ II Analyzer



DSQ II Mass Spectrometer

DuraBrite Source

- Electron energy adjustable between 0 and 130 eV and emission current up to 850 μ A
- Independently controlled heating from 125–300 °C for stable operation and chromatographic integrity
- Non-coated inert source material for EI, PCI, and NCI

Dual-Stage Quadrupole Mass Filter

- Curved quadrupole pre-filter
- Unit mass resolution throughout the mass range of 1–1050 amu
- Scan rate of >11,000 amu/s
- ± 0.1 amu mass axis stability for 48 hours
- Offers full-scan, segmented scanning, SIM, and simultaneous modes of mass analysis (Full-Scan/SIM and PPINICI)
- No tools required for source maintenance
- Durable materials guarantee long life and simple maintenance
- One-Click Target Tuning for BFB and DFTPP

DynaMax XR Detection System

- Post-acceleration 10 kV conversion dynode for efficient ion detection
- Next generation, off-axis, continuous dynode electron multiplier and electrometer with industry leading extended dynamic range
- Centroid or profile data acquisition
- PPINICI option to acquire positive ion CI and negative ion CI spectra in alternating scans

Inlet/Vacuum Interlock Option

- Remove ion volumes to switch from EI to CI without venting, or for direct sample probe analysis
- Standard with CI, optional for EI systems

Vacuum System Options

- 70 L/s maintenance-free
- 250 L/s turbomolecular pump
- 200/200 L/s split-flow turbomolecular

Productivity Solutions

- Turn-key installation for environmental, food safety, forensic, and toxicological applications
- Streamlined validation and integration, along with work-flow oriented application software

TRACE GC Ultra™ Gas Chromatograph

- Temperature programmable with seven ramps and eight levels, settable from 0.1–120 °C/min
- Eight independent, heated zones for injectors, detectors and auxiliary zones
- Oven cool-down : 450 – 50 °C in under 250 seconds
- Digital Pressure and Flow Control (DPFC) with gas saver
- Maximum oven temperature 450 °C

TRACE GC Ultra Options

- Sub-ambient cooling to -99 °C with LN₂ or -55 °C with CO₂
- Programmable Temperature Vaporizer (PTV) for split, cold split, splitless and large volume injection
- Cold on-column injector for true on-column and large volume injections
- Additional GC detector(s)
- Liquid or headspace autosampler(s)
- Purge and Trap and other autosampler options available

FOCUS Gas Chromatograph Options

- Temperature programmable with seven ramps and eight levels, settable from 0.1 – 120 °C/min
- Compatible with standard capillary column cages
- Oven cool-down: 350 °C to 50 °C in 270 seconds
- Digital Pressure and Flow Control (DPFC) with gas saver and septum purge
- Maximum oven temperature 350 °C

Data System Software Options

- Xcalibur™ Data system, common platform for all MS systems
- EnviroLab™ Forms Software
- ToxLab™ 2.0 Intelligent Sequencing Software
- ToxLab Forms Software
- NIST library
- Wiley library
- Pfleger-Maurer-Weber library
- Pesticide library

Direct Probe System Option

- Switch to probe in under three minutes with GC interface undisturbed
- Available in two styles: rapid heating filament Direct-Exposure Probe (DEP) or slower volatilization Direct-Insertion Probe (DIP)

Standard Installation Specifications

Electron Impact Ionization

1 µL of a 1 pg/µL (OFN) in iso-octane will produce the following minimum signal to noise for m/z 272 when scanning from 200–300 amu: 75:1 (70 L/s pump); 100:1 (250 L/s pump); 100:1 (200/200 L/s pump).

Positive Chemical Ionization

1 µL of a 10 pg/µL benzophenone will produce the following minimum signal to noise for m/z 183 when scanning from 80–230 amu: 10:1 (250 L/s pump); 10:1 (200/200 L/s pump).

Negative Chemical Ionization

1 µL of a 1 pg/µL standard of OFN in iso-octane will produce the following minimum signal to noise for m/z 272 when scanning from 200–300 amu: 1000:1 (250 L/s pump); 1000:1 (200/200 L/s pump).

Installation Requirements*

Supplies

- Power: 120 Vac +6%/-10% or 230 Vac ±10%, 50/60 Hz
- Helium: purity 99.999% with less than one ppm each of water, oxygen, and total hydrocarbons
- CI reagent gases: methane, isobutane, ammonia or carbon dioxide with purity 99.99%

Environment

- Complete system averages 3940 W (13,450 Btu/h) output when considering air conditioning needs
- Operating environment must be 15–31 °C (59–88 °F) and relative humidity must be 40–80% with no condensation. Optimum operating temperature is 18–26 °C (65–78 °F)

* Detailed installation requirements can be found in the DSQ II Preinstallation Guide P/N #120299-0001.

Certifications

- EMC – EN61326/1997+A1/1998+A2/2001
- Safety – EN61010-1, 1993+A1, 1992+A2, 1995

System Dimensions/Weights

Complete GC-MS system requires 2 m (6') of linear workbench space. Allow 16 cm (6") of clearance behind the instrument (32 cm if using autosampler). Additional space should be allotted for data system and printer.

Mass Spectrometer

(height x width x depth)

44 x 33 x 68 cm (17 x 13 x 27 in)

Weight: 45 kg (98 lbs)

TRACE GC Ultra

44 x 61 x 65 cm (17 x 24 x 25.5 in)

Weight: 55 kg (120 lbs)

FOCUS GC

43 x 51 x 35 cm (16.9 x 20 x 14 in)

Weight: 30 kg (66 lbs)

Data System Specifications†

- 2.8 GHz
- 1 GB DDR2, 2x512, 533 MHz
- 128 MB, ATI Radeon® X600SE graphics card
- 40 GB SATA, 3.0 GB/S hard drive
- 17.0" Flat panel monitor
- 3.5" 1.44 MB diskette drive
- 48X Max CD-RW
- 17" high-resolution SVGA color monitor
- Microsoft® Windows® XP with Office XP
- Gigabit Ethernet NIC 10/100/1000
- Two USB, two serial, and one parallel port

† Minimum specifications change frequently, call for latest. Special upgrade options are available to meet customer requirements.

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