

Magnet Portable Mass Spectrometer for Direct Control of Gases in Sea Water

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Portable automated magnet mass spectrometer with membrane inlet system for direct control of alkanes (C1-C5) and air constituents in seawater surface layers were considered. Characteristics, structure, main units and operating modes of the instrument were described. The dynamic peculiarities of the instrument response on target compound introduction were determined and taken into account at operating modes optimization. The results of testing of the direct mass spectrometric determination of air constituents, methane, ethane, propane, isobutene and pentane in water samples for fitful and permanent operating modes were discussed.