

**Method Number: TM 345**

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**Method Summary****Determination of Selected Pesticides (Suite III) in Liquids by GCMS****Scope and Range**

This procedure describes a method to detect trace levels of selected pesticides in water matrices. It is appropriate for ground water, effluents and similar water matrices. The detection limit (LOD) is set at 10ng/l for all components. The detection limit for this method is based on 80ml of sample being used for the extraction; however, the detection limit will increase if less sample volume is available for extraction or any dilutions are required.

**References**

EPA8270D - Semi-volatile organic compounds by Gas Chromatography/Mass Spectrometry.

**Principle**

A portion of sample is extracted with DCM using a liquid/liquid extraction method and analysed using a GC-MS in selective ion monitoring (SIM) mode.

**Interferences**

Solvents, reagent glassware and other sample processing hardware may contain contamination that affects the sample analysis. All these materials must be demonstrated to be free from contamination under the conditions of the analysis. This is undertaken by analysis of method blanks  
If extraction of a sample is prevented due to emulsion, it may be necessary to dilute and re-extract the sample in order to eliminate the effect.