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**Report No.** RT/ELE/1672  
**Date:** 05/12/2005  
 Order No. 28715 and 28725  
 Quote No. QT/SUN/05K18  
 Sample Received 28/11/2005

## Sample Analysis Report

The samples were received from IQE Europe Limited. The sample consisted of semi-conductors and were analysed for ROHS compliance.

### ROHS Pre-screening

The technique used for the ROHS pre-screening was a wavelength dispersive X-Ray fluorescence spectrometer. This analysis was semi-quantative and all failures must be run on different instrumentation. For quantatative analysis other instrumentation must also be used for example, ICP-OES. If the ROHS element is not detected or is below the Intertek pre-screening limits (see below) then the element has passed the ROHS pre-screening. This test is not UKAS accredited.

Due to sample interference with Indium on Cadmium, this elements concentration was determined quantatatively using an acid digestion followed by ICP-OES. (see results below)

**Lab Sample No:** ITS-106013  
**Sample Description:** Galium Arsenide

ANALYSIS	Intertek RoHS Limits	RESULTS	UNITS	Pass/Fail
Concentration of Bromine by XRF	300	<300	ppm	Pass
Concentration of Cadmium by XRF	60	<60	ppm	Pass
Concentration of Chromium by XRF	600	<600	ppm	Pass
Concentration of Mercury by XRF	600	<600	ppm	Pass
Concentration of Lead by XRF	600	<600	ppm	Pass

**Lab Sample No:** ITS-106014  
**Sample Description:** Indium Phosphide

ANALYSIS	Intertek RoHS Limits	RESULTS	UNITS	Pass/Fail
Concentration of Cadmium by ICP-OES	1000	<10	ppm	Pass
Concentration of Bromine by XRF	300	<300	ppm	Pass
Concentration of Chromium by XRF	600	<600	ppm	Pass
Concentration of Mercury by XRF	600	<600	ppm	Pass
Concentration of Lead by XRF	600	<600	ppm	Pass

Analysis has been carried out on samples as received, independent of sampling procedure.

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