

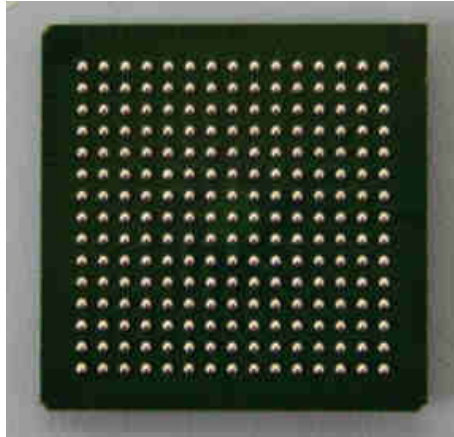
## Residue Analysis – BEST

Project #:	1818-13A	Address:	3603 Edison Place
Date:	October 31, 2007		Rolling Meadows, IL 60008
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**Foresite Cleanliness Guidelines For:**

	Chloride	Bromide	Sulfate	WOA
<b>Bare Boards</b>	<2.0	<6.0	<3.0	Rarely Detected
Cleaned Assembly Water Soluble Flux	<6.0	<12.0	<3.0	<15.0
Non Cleaned Assembly Using No Clean Flux	<3.0	<9.0	<3.0	<25.0

*Note: all above values are in ug/in<sup>2</sup>.*



**Testing Results**

Foresite ID#	Sample Description	Ion Chromatography					WOA
		Cl <sup>-</sup>	NO <sub>2</sub> <sup>-</sup>	Br <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	PO <sub>4</sub> <sup>2-</sup>	
1818-13A-01	BGA - With Preform 265	1.22	0	0.30	0.27	0	1.01
1818-13A-02	BGA - EZ Reball 225	1.00	0	0.51	0.12	0.04	0.61

*Note: all above values are in ug/in<sup>2</sup>.*

**Testing Protocol**

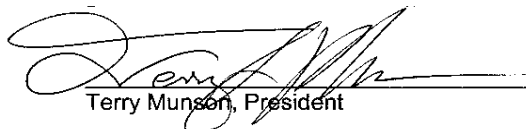
All residues in this evaluation were characterized using Ion Chromatography per IPC-TM-650 2.3.28.

**Conclusions**

The ionic residues for these samples are low and pose a minimal risk of electrical leakage.

**Reported by:**

BEST – 1818-13A



Terry Munson, President

10/31/07