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Date 02/15/2018
 Assay 1649
 Client Name Pfane Sci
 Analyst Girbe Lucian

Item Image



Item Description

Manufacturing waste from the process of making circuit boards.

Frames, Copper Laminates, Copper Trims, CutOffs

The material measures an average of 85mm x 140mm x 3mm

The material is translucent in some areas and solid in others

Samples have multiple colors Green, White, Red, Blue and Black

Process

Using various samples from trim cuts produced during PCB manufacturing which was provided by Pfane Scientific SRL, Salaj, Romania. The materials were crushed in a hammer mill before using it. To determine the elemental composition of waste manufacturing cutoffs, Laser induced -Inductive Coupled Plasma Mass Spectrometry (ICP-MS) spectrometry analysis was carried out and the Pb concentration was found to be unreadable at a reading less than 0.01 µg/g. The detailed ICP results are outlined herein

Element	Concentration (µg/g)	Percent
Ag	226	0.02%
Al	0	0.00%
As	0	0.00%
Au	0	0.00%
Ba	0	0.00%
Ca	0	0.00%
Cd	0	0.00%
Co	0	0.00%
Cr	13	0.00%
Cu	11684	1.17%
Fe	42	0.00%
Mn	0	0.00%
Ni	3	0.00%
Pb	0	0.00%
Pd	0	0.00%
Sb	0	0.00%
Si	895451	89.55%
Sn	462	0.05%
Ti	0	0.00%
Zn	18	0.00%