CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	1995
DateRun:	03/20/1995
Experimenters:	Donald Garlotta
ClientType:	Electrical Manufacturer
ProjectNumber:	Project #1
Substrates:	Brass
PartType:	Part
Contaminants:	Cutting/Tapping Fluids, Lubricating/Lapping Oils, Fingerprints, Oil
Cleaning Methods:	Low Pressure Spray
Analytical Methods:	Goniometry
Purpose:	To clean 3 brass conical connectors
Experimental Procedure:	After the cleaning trial was performed, the parts were subject to contact angle goniometry. Their contact angle was compared to the contact angle of several dirty parts. Twenty-three readings were taken of the clean parts.
Results:	T&D Finishing Co. TD-110 An average value of 45.043 + 7.081 degrees. Fourteen readings were taken of the dirty parts with an average value of 58.357+ 8.776 degrees. Valtech Corp. Valtron SP2275 After the parts were subjected to the cleaning trial, they were then subjected to a comparative analysis to dirty parts, using contact angle goniometry. Fourteen readings of the dirty parts were taken, and they had an average contact angle of 58.357 + 8.776 degrees. Twenty-nine readings of the ultrasonically cleaned parts were taken, and they had an average contact angle of 70.828 + 8.414 degrees. This value is unexpectedly higher than that of the dirty parts, suggesting that the clean parts are not as clean as the dirty parts.

Summary:

Substrates:	Brass				
Contaminants:	Cutting/Tapping Fluids, Lubricating/Lapping Oils, Fingerprints, Oil				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Valtech Corporation	Valtron SP 2275	5	0.00	☐	
T & D Finishing Company	TD 110	4	0.00	☐	

Conclusion: