CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2021
DateRun:	12/14/2021
Experimenters:	Zoe Lawson
ClientType:	Lab
ProjectNumber:	Project #7
Substrates:	Glass/Quartz, Chrome
PartType:	Coupon
Contaminants:	SSL Soil 2 Glass Soap Scum
Cleaning Methods:	Manual Wipe
Analytical Methods:	Gravimetric
Purpose:	Control testing to monitor glass soil consistency.
Experimental Procedure:	Nine pre-weighed coupons, three of each substrate per cleaner, were contaminated with ~0.5 grams of glass soil (Water 51.5%, Hair gel 25.6%, Toothpaste 10.4%, Shaving cream 5.3%, Hair spray 3.7%, Spray deodorant 3.5%) distributed onto each coupon. The dirty weights were recorded after the coupons had dried for 24 hours at room temperature (68 F). Two coupons of the same substrate were aligned into a Single Line Washing Unit (SLW) with The Wypall X60 attached to the cleaning sled. The Wypall X60 reinforced wipe along with the coupons were all sprayed two times with the cleaner and then allowed to soak for 30 seconds. Afterwards the Single Line Washing Unit (SLW) was activated and cleaned for 20 cycles. The clean coupons were all then allowed to dry overnight at room temperature before the final weights were recorded.

Results:

Cleaner	Substrate	Initial wt of cont.	Final wt of cont.	%Cont Removed	% AVG	% Overall
Water	Mirror	0.5671	0.1058	81.34	81.68	82.55
		0.6592	0.1125	82.93		
		0.6172	0.1188	80.75		
	Glass	0.5955	0.1197	79.90	80.03	
		0.5377	0.1055	80.38		
		0.5581	0.1126	79.82		
	Chrome	0.6418	0.0969	84.90	85.93	
		0.6380	0.0804	87.40		
		0.6202	0.0899	85.50		

Summary:

Conclusion: The overall removal percentage for this control test was 82.55%.