CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 10/20/2021

Experimenters: Nicole Kebler, Tatyanna Moreland Junior

ClientType: Lab

ProjectNumber: Project #5

Substrates: Glass/Quartz, Other, Chrome

PartType: Coupon

Contaminants: Glass

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To test Libman Multi-Surface Disinfecting Cleaner for the removal of glass soil on glass, mirror and chrome.

Experimental Procedure: Three coupons of each substrate (glass, mirror and chrome) were collected and initial weights were taken. glass soil was applied to each coupon and allowed to air dry for 24 hours. After the 24 hour dry time, the weights of the newly contaminated coupons were measured. All coupons were placed into a Straight-Line Washability (SLW) machine. A KC Wypall cleaning cloth was attached to the cleaning block used for the test. The Wypall cloth and all coupons received 2 sprays of the Libman Cleaner and the SLW machine was run for 20 repetitions, simulating 20 manual wipes. Once cleaning concluded, the cleaned coupons were allowed to air dry for 24 hours. After 24 hours, the weights of the cleaned coupons were measured.

Results: Overall, visually the coupons were clean with minor residue left on the surface. Chrome had the highest percentage removal at 85% and glass and mirror were both about 72% effective.

Cleaner	Substrate	Initial wt. of cont	Final wt. of cont	% Removal	Average
Libman	Glass	0.0204	0.0051	75.00	72.35
		0.0169	0.0057	66.27	
		0.0256	0.0062	75.78	
	Mirror	0.0232	0.0076	67.24	72.32
		0.0207	0.0055	73.43	
		0.0253	0.0060	76.28	
	Chrome	0.0303	0.0041	86.47	85.12
		0.0306	0.0044	85.62	
		0.0269	0.0045	83.27	

Summary:

Conclusion: Visually the coupons were clean with minor residue left on the surface. Chrome had the highest removal effectiveness and glass and mirror were tied.