

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016
 DateRun: 07/21/2016
 Experimenters: James Keats
 ClientType: Cleaning Equipment Mfr
 ProjectNumber: Project #1
 Substrates: Ceramics
 PartType: Coupon
 Contaminants: Food
 Cleaning Methods: Mechanical Agitation
 Analytical Methods: Visual

Purpose: Evaluate beginning, middle, and end effectiveness of iRobot cleaning pad.

Experimental Procedure: Apply soil to 39" X 39" clean ceramic floor, spreading 1g of soil onto even numbered tiles with a swab and odd tiles by dripping 1g of soil onto them (9g per floor). Allow the floor to dry for 48h. Attach a cleaning pad to the Braava unit and completely fill with water. Then place the Braava unit onto the floor. Turn on the Braava unit, and begin the cleaning cycle. At intervals of 10 seconds, take a picture of the floor. Once the cycle is complete, empty any water still in the Braava unit and dispose of the pad. Pictures are taken periodically to compare effectiveness of cleaning pad over time. This will allow beginning, middle, and end cleaning to be visually evaluated.

To evaluate total soil removal, a visual observation will be made. This observation will be an estimation of the % soil removed from each tile by comparing before and after pictures of the floor. In addition to this rating, observers will also be asked to rate the overall cleanliness of the floor from 1-5 (1 being no soil remaining).

Tile numbers

9	4	3
8	5	2
7	6	1

^^^^ Braava unit starts here

Results:

Percent removal Trial 1

(Ex: 95% means that 5% of the initial soil remained on the tile.)

Observer 1 - rating: 2

100%	100%	85%
90%	100%	94%
100%	100%	98%

Observer 2 - rating: 2

100%	100%	90%
93%	100%	95%
100%	99%	100%

Observer 3 - rating: 1.1

100%	90%	100%
100%	100%	100%
100%	100%	90%

Summary:

Substrates:	Ceramics				
Contaminants:	Food				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
iRobot	iRobot Braava unit	100		<input type="checkbox"/>	

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Conclusion:

- Pad seemed to clean consistently across entire floor.
- Floor was not rated as completely clean