CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016

DateRun: 08/08/2016

Experimenters: James Keats

ClientType: Cleaning Equipment Mfr

ProjectNumber: Project #1

Substrates: Ceramics

PartType: Coupon

Contaminants: Food

Cleaning Methods: Mechanical Agitation

Analytical Methods: Visual

Purpose: To provide a basis with which to compare the effectiveness of the Braava unit to competitors.

Experimental Procedure: Apply soil to 4' X 4' clean vinyl floor, spreading 1g of soil onto even numbered tiles with a swab and odd tiles by dripping 1g of soil onto them (16g per floor). No drying is required for the Vinaigrette. The tester then cleans the floor using paper towels and a spray bottle filled with water, beginning by the 1st tile. Tester continues to clean until they feel they have finished. The time it takes for the tester to clean the floor is recorded.

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 observing the amount of soil removed by a paper towel. Each tile will be wiped with a paper towel in a circular motion until the entire tile has been wiped. Also a control paper towel will be prepared by wiping off 1g of soil. 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

4	5	6	7
3	14	15	8
2	13	16	9
1	12	11	10

^^^

Tester starts standing here

Results: Cleaning time: 100 seconds

Percent removal Trial 1

(Ex: 95% means that 5% of the tile was covered in contaminant.)

Observer 1 – rating: 1.2

100%	99%	100%
97%	97%	95%
97%	99%	100%

Observer 2 – rating: 1.5

99%	98%	97%
100%	99%	97%
99%	99%	100%

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Observer 3 – rating: 1.8

99%	97%	100%
99%	93%	92%
97%	99%	100%

Summary:

Substrates:	Ceramics				
Contaminants:	Food				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Water	Water	100	0.00	☑	

Conclusion:

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Wiping the tiles with a paper towel made it easier to see the remaining contaminant on the floor. Manual cleaning was slightly better than the Braava unit, but neither completely cleaned the floor. (Still some vinaigrette remaining)