# CLEANING LABORATORY EVALUATION SUMMARY

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|---|---|
| SCL #: | 2015 |
| DateRun: | 06/13/2015 |
| Experimenters: | James Keats |
| ClientType: | Cleaning Equipment Mfr |
| ProjectNumber: | Project #1 |
| Substrates: | Vinyl Composite Tiles |
| PartType: | Coupon |
| Contaminants: | Food |
| Cleaning Methods: | Mechanical Agitation |
| Analytical Methods: | Visual |
| Purpose: | Evaluate beginning, middle, and end effectiveness of iRobot cleaning pad. |

Experimental Procedure:

**iRobot unit:** 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). Allow the floor to dry for 48h. 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 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

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

^^^

Tester starts here

Results:

The floor was soiled and cleaned once.

**Percent removal Trial 1**

**Time:** 2 minutes 6 seconds

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

Observer 1 – rating: 1

| | | | |
|---|---|---|---|
| 100% | 100% | 100% | 100% |
| 100% | 100% | 100% | 100% |
| 100% | 100% | 100% | 100% |
| 100% | 100% | 100% | 100% |

Observer 2 – rating: 1

| | | | |
|---|---|---|---|
| 100% | 100% | 100% | 100% |
| 100% | 100% | 100% | 100% |
| 100% | 100% | 100% | 100% |
| 100% | 100% | 100% | 100% |

Observer 3 – rating: 1

| | | | |
|---|---|---|---|
| 100% | 100% | 100% | 100% |
| 100% | 100% | 100% | 100% |
| 100% | 100% | 100% | 100% |

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|---|---|---|---|---|
| 100% | 100% | 100% | 100% | |

Summary:

| Substrates: | Vinyl Composite Tiles | | | | |
|---|---|---|---|---|---|
| **Contaminants:** | Food | | | | |
| **Company Name:** | **Product Name:** | **Conc.:** | **Efficiency:** | **Effective:** | **Observations:** |
| Water | Water | 100 | 0.00 | ☑ | |

Conclusion: Manual cleaning of floor cleaned more completely than the Braava unit.