Note: there are 2 levels for the A effect. Average tests are identical to the univariate tests of significance.

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MANOVA 中的缺省误差项已从 WITHIN CELLS 更改为 WITHIN+RESIDUAL。请注意，它们对于所有 全因子设计是相同的。

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* A n a l y s i s o f V a r i a n c e \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

18 cases accepted.

0 cases rejected because of out-of-range factor values.

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1 non-empty cell.

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\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* A n a l y s i s o f V a r i a n c e -- Design 1 \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

Tests of Between-Subjects Effects.

Tests of Significance for T1 using UNIQUE sums of squares

Source of Variation SS DF MS F Sig of F

WITHIN+RESIDUAL 1654815.41 17 97342.08

CONSTANT 65442267.59 1 65442268 672.29 .000

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\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* A n a l y s i s o f V a r i a n c e -- Design 1 \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

Tests involving 'B WITHIN A(1)' Within-Subject Effect.

Mauchly sphericity test, W = .83778

Chi-square approx. = 2.83202 with 2 D. F.

Significance = .243

Greenhouse-Geisser Epsilon = .86042

Huynh-Feldt Epsilon = .94819

Lower-bound Epsilon = .50000

AVERAGED Tests of Significance that follow multivariate tests are equivalent to

univariate or split-plot or mixed-model approach to repeated measures.

Epsilons may be used to adjust d.f. for the AVERAGED results.

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\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* A n a l y s i s o f V a r i a n c e -- Design 1 \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

EFFECT .. B WITHIN A(1)

Multivariate Tests of Significance (S = 1, M = 0, N = 7 )

Test Name Value Exact F Hypoth. DF Error DF Sig. of F

Pillais .66007 15.53456 2.00 16.00 .000

Hotellings 1.94182 15.53456 2.00 16.00 .000

Wilks .33993 15.53456 2.00 16.00 .000

Roys .66007

Note.. F statistics are exact.

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\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* A n a l y s i s o f V a r i a n c e -- Design 1 \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

Tests involving 'B WITHIN A(1)' Within-Subject Effect.

AVERAGED Tests of Significance for MEAS.1 using UNIQUE sums of squares

Source of Variation SS DF MS F Sig of F

WITHIN+RESIDUAL 121474.74 34 3572.79

B WITHIN A(1) 73833.93 2 36916.96 10.33 .000

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Tests involving 'B WITHIN A(2)' Within-Subject Effect.

Mauchly sphericity test, W = .81189

Chi-square approx. = 3.33430 with 2 D. F.

Significance = .189

Greenhouse-Geisser Epsilon = .84167

Huynh-Feldt Epsilon = .92384

Lower-bound Epsilon = .50000

AVERAGED Tests of Significance that follow multivariate tests are equivalent to

univariate or split-plot or mixed-model approach to repeated measures.

Epsilons may be used to adjust d.f. for the AVERAGED results.

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\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* A n a l y s i s o f V a r i a n c e -- Design 1 \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

EFFECT .. B WITHIN A(2)

Multivariate Tests of Significance (S = 1, M = 0, N = 7 )

Test Name Value Exact F Hypoth. DF Error DF Sig. of F

Pillais .49995 7.99849 2.00 16.00 .004

Hotellings .99981 7.99849 2.00 16.00 .004

Wilks .50005 7.99849 2.00 16.00 .004

Roys .49995

Note.. F statistics are exact.

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\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* A n a l y s i s o f V a r i a n c e -- Design 1 \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

Tests involving 'B WITHIN A(2)' Within-Subject Effect.

AVERAGED Tests of Significance for MEAS.1 using UNIQUE sums of squares

Source of Variation SS DF MS F Sig of F

WITHIN+RESIDUAL 162285.19 34 4773.09

B WITHIN A(2) 78872.15 2 39436.07 8.26 .001

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Note: there are 2 levels for the A effect. Average tests are identical to the univariate tests of significance.

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\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* A n a l y s i s o f V a r i a n c e -- Design 1 \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

Tests of Between-Subjects Effects.

Tests of Significance for T1 using UNIQUE sums of squares

Source of Variation SS DF MS F Sig of F

WITHIN+RESIDUAL 1654815.41 17 97342.08

CONSTANT 65442267.59 1 65442268 672.29 .000

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* A n a l y s i s o f V a r i a n c e -- Design 1 \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

Tests involving 'A WITHIN B(1)' Within-Subject Effect.

Tests of Significance for T2 using UNIQUE sums of squares

Source of Variation SS DF MS F Sig of F

WITHIN+RESIDUAL 66096.89 17 3888.05

A WITHIN B(1) 18315.11 1 18315.11 4.71 .044

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\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* A n a l y s i s o f V a r i a n c e -- Design 1 \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

Tests involving 'A WITHIN B(2)' Within-Subject Effect.

Tests of Significance for T3 using UNIQUE sums of squares

Source of Variation SS DF MS F Sig of F

WITHIN+RESIDUAL 68613.89 17 4036.11

A WITHIN B(2) 3560.11 1 3560.11 .88 .361

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\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* A n a l y s i s o f V a r i a n c e -- Design 1 \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

Tests involving 'A WITHIN B(3)' Within-Subject Effect.

Tests of Significance for T4 using UNIQUE sums of squares

Source of Variation SS DF MS F Sig of F

WITHIN+RESIDUAL 69744.22 17 4102.60

A WITHIN B(3) 2177.78 1 2177.78 .53 .476

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