**Factor Analysis**

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| **Notes** |  |  |
| Output Created |  | 06-SEP-2025 02:21:41 |
| Comments |  |  |
| Input | Data | C:\Users\DanhSakai\Desktop\SPSSFileDatav1.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 129 |
| Missing Value Handling | Definition of Missing | MISSING=EXCLUDE: User-defined missing values are treated as missing. |
| Cases Used | LISTWISE: Statistics are based on cases with no missing values for any variable used. |
| Syntax |  | FACTOR /VARIABLES HT1 HT3 TB1 TB2 TB3 PC1 PC2 PC3 KH2 NS3 LCV3 TCT3 HQVH3 /MISSING LISTWISE /ANALYSIS HT1 HT3 TB1 TB2 TB3 PC1 PC2 PC3 KH2 NS3 LCV3 TCT3 HQVH3 /PRINT INITIAL KMO COVARIANCE EXTRACTION ROTATION FSCORE /FORMAT SORT BLANK(.4) /CRITERIA MINEIGEN(1) ITERATE(25) /EXTRACTION PC /CRITERIA KAISER ITERATE(25) /ROTATION VARIMAX /METHOD=CORRELATION. |
| Resources | Processor Time | 00:00:00.00 |
| Elapsed Time | 00:00:00.00 |
| Maximum Memory Required | 21944 (21.430K) bytes |

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| **Covariance Matrix** |  |  |  |  |  |  |  |  |
|  | HT1 | HT3 | TB1 | TB2 | TB3 | PC1 | PC2 | PC3 |
| HT1 | .302 | .167 | .059 | .094 | .029 | .176 | .126 | .152 |
| HT3 | .167 | .517 | .049 | .184 | .102 | .189 | .221 | .270 |
| TB1 | .059 | .049 | .425 | .170 | .160 | .062 | .041 | .067 |
| TB2 | .094 | .184 | .170 | .590 | .304 | .123 | .120 | .258 |
| TB3 | .029 | .102 | .160 | .304 | .928 | .060 | .009 | .130 |
| PC1 | .176 | .189 | .062 | .123 | .060 | .354 | .206 | .206 |
| PC2 | .126 | .221 | .041 | .120 | .009 | .206 | .434 | .204 |
| PC3 | .152 | .270 | .067 | .258 | .130 | .206 | .204 | .486 |
| KH2 | .098 | .230 | .117 | .218 | .239 | .165 | .188 | .239 |
| NS3 | .041 | .156 | .060 | .166 | .164 | .086 | .105 | .168 |
| LCV3 | .066 | .113 | -.004 | .108 | .139 | .083 | .113 | .110 |
| TCT3 | .049 | .250 | .087 | .197 | .209 | .051 | .166 | .216 |
| HQVH3 | .084 | .123 | .092 | .153 | .096 | .084 | .157 | .118 |

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| **Covariance Matrix** |  |  |  |  |  |
|  | KH2 | NS3 | LCV3 | TCT3 | HQVH3 |
| HT1 | .098 | .041 | .066 | .049 | .084 |
| HT3 | .230 | .156 | .113 | .250 | .123 |
| TB1 | .117 | .060 | -.004 | .087 | .092 |
| TB2 | .218 | .166 | .108 | .197 | .153 |
| TB3 | .239 | .164 | .139 | .209 | .096 |
| PC1 | .165 | .086 | .083 | .051 | .084 |
| PC2 | .188 | .105 | .113 | .166 | .157 |
| PC3 | .239 | .168 | .110 | .216 | .118 |
| KH2 | .535 | .179 | .166 | .397 | .241 |
| NS3 | .179 | .350 | .162 | .206 | .107 |
| LCV3 | .166 | .162 | .324 | .207 | .125 |
| TCT3 | .397 | .206 | .207 | .719 | .233 |
| HQVH3 | .241 | .107 | .125 | .233 | .360 |

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| **KMO and Bartlett's Test** |  |  |
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. |  | .839 |
| Bartlett's Test of Sphericity | Approx. Chi-Square | 572.066 |
| df | 78 |
| Sig. | <.001 |

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| **Communalities** |  |  |
|  | Initial | Extraction |
| HT1 | 1.000 | .604 |
| HT3 | 1.000 | .556 |
| TB1 | 1.000 | .618 |
| TB2 | 1.000 | .603 |
| TB3 | 1.000 | .558 |
| PC1 | 1.000 | .697 |
| PC2 | 1.000 | .589 |
| PC3 | 1.000 | .582 |
| KH2 | 1.000 | .650 |
| NS3 | 1.000 | .488 |
| LCV3 | 1.000 | .554 |
| TCT3 | 1.000 | .670 |
| HQVH3 | 1.000 | .439 |

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| Extraction Method: Principal Component Analysis. |  |  |

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| **Total Variance Explained** |  |  |  |  |  |  |
| Component | Initial Eigenvalues |  |  | Extraction Sums of Squared Loadings |  |  |
| Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 4.822 | 37.092 | 37.092 | 4.822 | 37.092 | 37.092 |
| 2 | 1.570 | 12.079 | 49.172 | 1.570 | 12.079 | 49.172 |
| 3 | 1.218 | 9.367 | 58.539 | 1.218 | 9.367 | 58.539 |
| 4 | .937 | 7.208 | 65.746 |  |  |  |
| 5 | .759 | 5.835 | 71.581 |  |  |  |
| 6 | .657 | 5.051 | 76.632 |  |  |  |
| 7 | .602 | 4.632 | 81.264 |  |  |  |
| 8 | .571 | 4.395 | 85.659 |  |  |  |
| 9 | .477 | 3.673 | 89.332 |  |  |  |
| 10 | .437 | 3.363 | 92.695 |  |  |  |
| 11 | .364 | 2.797 | 95.493 |  |  |  |
| 12 | .330 | 2.539 | 98.032 |  |  |  |
| 13 | .256 | 1.968 | 100.000 |  |  |  |

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| **Total Variance Explained** |  |  |  |
| Component | Rotation Sums of Squared Loadings |  |  |
| Total | % of Variance | Cumulative % |
| 1 | 3.026 | 23.276 | 23.276 |
| 2 | 2.823 | 21.716 | 44.992 |
| 3 | 1.761 | 13.547 | 58.539 |
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| Extraction Method: Principal Component Analysis. |  |  |  |

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| **Component Matrix**a |  |  |  |
|  | Component |  |  |
| 1 | 2 | 3 |
| KH2 | .771 |  |  |
| PC3 | .726 |  |  |
| HT3 | .691 |  |  |
| TCT3 | .649 |  |  |
| PC2 | .631 |  |  |
| HQVH3 | .627 |  |  |
| NS3 | .623 |  |  |
| TB2 | .618 |  | .415 |
| PC1 | .611 | -.547 |  |
| LCV3 | .577 |  | -.426 |
| HT1 | .513 | -.548 |  |
| TB3 | .403 | .517 |  |
| TB1 |  |  | .681 |

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| Extraction Method: Principal Component Analysis.a |  |  |  |
| a. 3 components extracted. |  |  |  |

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| **Rotated Component Matrix**a |  |  |  |
|  | Component |  |  |
| 1 | 2 | 3 |
| TCT3 | .804 |  |  |
| LCV3 | .728 |  |  |
| KH2 | .690 |  |  |
| NS3 | .648 |  |  |
| HQVH3 | .588 |  |  |
| PC1 |  | .823 |  |
| HT1 |  | .769 |  |
| PC2 |  | .676 |  |
| PC3 |  | .631 |  |
| HT3 |  | .629 |  |
| TB1 |  |  | .773 |
| TB3 |  |  | .668 |
| TB2 |  |  | .663 |

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| Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization. a |  |  |  |
| a. Rotation converged in 5 iterations. |  |  |  |

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| **Component Transformation Matrix** |  |  |  |
| Component | 1 | 2 | 3 |
| 1 | .693 | .622 | .363 |
| 2 | .462 | -.771 | .439 |
| 3 | -.553 | .137 | .822 |

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| Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization. |  |  |  |

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| **Component Score Coefficient Matrix** |  |  |  |
|  | Component |  |  |
| 1 | 2 | 3 |
| HT1 | -.179 | .358 | .022 |
| HT3 | .052 | .214 | -.072 |
| TB1 | -.199 | .014 | .544 |
| TB2 | -.035 | .018 | .388 |
| TB3 | .047 | -.161 | .417 |
| PC1 | -.144 | .365 | -.002 |
| PC2 | .055 | .257 | -.184 |
| PC3 | .001 | .210 | .053 |
| KH2 | .220 | -.016 | .048 |
| NS3 | .244 | -.071 | .011 |
| LCV3 | .335 | -.072 | -.188 |
| TCT3 | .352 | -.140 | -.061 |
| HQVH3 | .202 | -.014 | -.004 |

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| Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization. |  |  |  |

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| **Component Score Covariance Matrix** |  |  |  |
| Component | 1 | 2 | 3 |
| 1 | 1.000 | .000 | .000 |
| 2 | .000 | 1.000 | .000 |
| 3 | .000 | .000 | 1.000 |

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| Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization. |  |  |  |