

Erasmus Research Institute of Management

MPhil Thesis

Web Appendix

Does Idiosyncratic Industry Volatility matter?

An investigation of the industry-specific volatility
for the cross-section of the U. S. stock returns

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Contents

| | | |
|-------------------|--|----------|
| 1 | Description of the Web Appendix | 5 |
| Appendices | | 6 |
| A | Figures | 7 |
| 1 | Rough picture of the dataset | 7 |
| 2 | Figures of the aggregate volatility series | 13 |
| 2.1 | MKT | 14 |
| 2.1.1 | SIC-49 | 14 |
| 2.1.1.1 | Value-weighted | 14 |
| 2.1.1.2 | Equally-weighted | 14 |
| 2.1.2 | SIC-10 | 15 |
| 2.1.2.1 | Value-weighted | 15 |
| 2.1.2.2 | Equally-weighted | 15 |
| 2.1.3 | FIC-25 | 16 |
| 2.1.3.1 | Value-weighted | 16 |
| 2.1.3.2 | Equally-weighted | 16 |
| 2.2 | IND | 17 |
| 2.2.1 | SIC-49 | 17 |
| 2.2.1.1 | Value-weighted | 17 |
| 2.2.1.2 | Equally-weighted | 17 |
| 2.2.2 | SIC-10 | 18 |
| 2.2.2.1 | Value-weighted | 18 |
| 2.2.2.2 | Equally-weighted | 18 |
| 2.2.3 | FIC-25 | 19 |
| 2.2.3.1 | Value-weighted | 19 |
| 2.2.3.2 | Equally-weighted | 19 |
| 2.3 | FIRM | 20 |
| 2.3.1 | SIC-49 | 20 |
| 2.3.1.1 | Value-weighted | 20 |
| 2.3.1.2 | Equally-weighted | 20 |
| 2.3.2 | SIC-10 | 21 |
| 2.3.2.1 | Value-weighted | 21 |

| | | |
|----------|--|-----------|
| 2.3.2.2 | Equally-weighted | 21 |
| 2.3.3 | FIC-25 | 22 |
| 2.3.3.1 | Value-weighted | 22 |
| 2.3.3.2 | Equally-weighted | 22 |
| B | Descriptives | 23 |
| 1 | Basic descriptives of the aggregate variables | 23 |
| 1.1 | SIC-49 | 23 |
| 1.2 | SIC-10 | 23 |
| 1.3 | FIC-25 | 24 |
| 2 | Correlations of the aggregate variables and factors | 24 |
| 2.1 | SIC-49 | 24 |
| 2.2 | SIC-10 | 25 |
| 2.3 | FIC-25 | 25 |
| 3 | Autocorrelation structure of the aggregate variables and factors | 26 |
| 4 | Correlations between IIND and AIFIRM | 28 |
| 4.1 | SIC-49 | 28 |
| 4.2 | SIC-10 | 29 |
| 4.3 | FIC-25 | 29 |
| C | Extended tables | 30 |
| 1 | Testing hypothesis 1, $\lambda_{\beta_{IIND}} = 0$ | 31 |
| 1.1 | SIC-49 industries | 31 |
| 1.1.1 | Fama-MacBeth t-statistics | 31 |
| 1.1.2 | Shanken t-statistics | 33 |
| 1.1.3 | Newey-West t-statistics | 34 |
| 1.1.4 | Newey-West t-statistics, dataset is same as controls | 35 |
| 1.1.5 | Newey-West t-statistics, controls | 36 |
| 1.2 | SIC-10 divisions | 37 |
| 1.2.1 | Fama-MacBeth t-statistics | 37 |
| 1.2.2 | Newey-West t-statistics | 38 |
| 1.2.3 | Newey-West t-statistics, dataset is same as controls | 39 |
| 1.2.4 | Newey-West t-statistics, controls | 40 |
| 1.3 | Hoberg-Phillips FIC-25 industries | 42 |
| 1.3.1 | Fama-MacBeth t-statistics | 42 |
| 1.3.2 | Shanken t-statistics | 43 |
| 1.3.3 | Newey-West t-statistics | 45 |
| 1.3.4 | Newey-West t-statistics, dataset is same as controls | 46 |
| 1.3.5 | Newey-West t-statistics, controls | 47 |
| 2 | Testing hypothesis 2, $\lambda_{\beta_{IIND}} = 0$ | 49 |
| 2.1 | SIC-49 industries | 49 |
| 2.1.1 | Newey-West t-statistics | 49 |
| 2.1.2 | Newey-West t-statistics, controls | 51 |
| 2.2 | SIC-10 divisions | 53 |

| | | | |
|-----|-------|---|----|
| | 2.2.1 | Newey-West t-statistics | 53 |
| | 2.2.2 | Newey-West t-statistics, controls | 54 |
| 2.3 | | Hoberg-Phillips FIC-25 industries | 56 |
| | 2.3.1 | Newey-West t-statistics | 56 |
| | 2.3.2 | Newey-West t-statistics, controls | 57 |
| 3 | | Testing hypothesis 3, $\lambda_{IND} = 0$ | 59 |
| | 3.1 | SIC-49 industries | 59 |
| | 3.1.1 | Newey-West t-statistics | 60 |
| | 3.1.2 | Newey-West t-statistics, controls | 62 |
| | 3.2 | SIC-10 divisions | 64 |
| | 3.2.1 | Newey-West t-statistics | 64 |
| | 3.2.2 | Newey-West t-statistics, controls | 66 |
| | 3.3 | Hoberg-Phillips FIC-25 industries | 68 |
| | 3.3.1 | Newey-West t-statistics | 68 |
| | 3.3.2 | Newey-West t-statistics, controls | 70 |

1 Description of the Web Appendix

In the web appendix, I present the figures and descriptive statistics of the dataset and the variables used in the thesis. I mostly use self-explanatory section/subsection headings for the elements of the appendix.

Appendices

Appendix A

Figures

1 Rough picture of the dataset

I found it interesting to have some rough visual picture of the dataset and industries, conjecturing that this would somehow help me in exactly replicating other studies.

- Figure [A.1](#) presents the number of stocks per month of the CRSP database. The purpose was to see how the identifiers behave.
- Figure [A.2](#) briefly exposes the exchange codes (`EXCHCD`).
- Figure [A.3](#) presents the return histograms of the SIC 49 industries.
- Figure [A.3](#) presents the return densities of the SIC 49 industries.
- Figure [A.5](#) updates Figure 1 (p. 10) of Campbell et al.. As they do, I use the *annualized* standard deviations based on monthly data, following the definition in Schwert (1989). It seems almost identical to their figure.

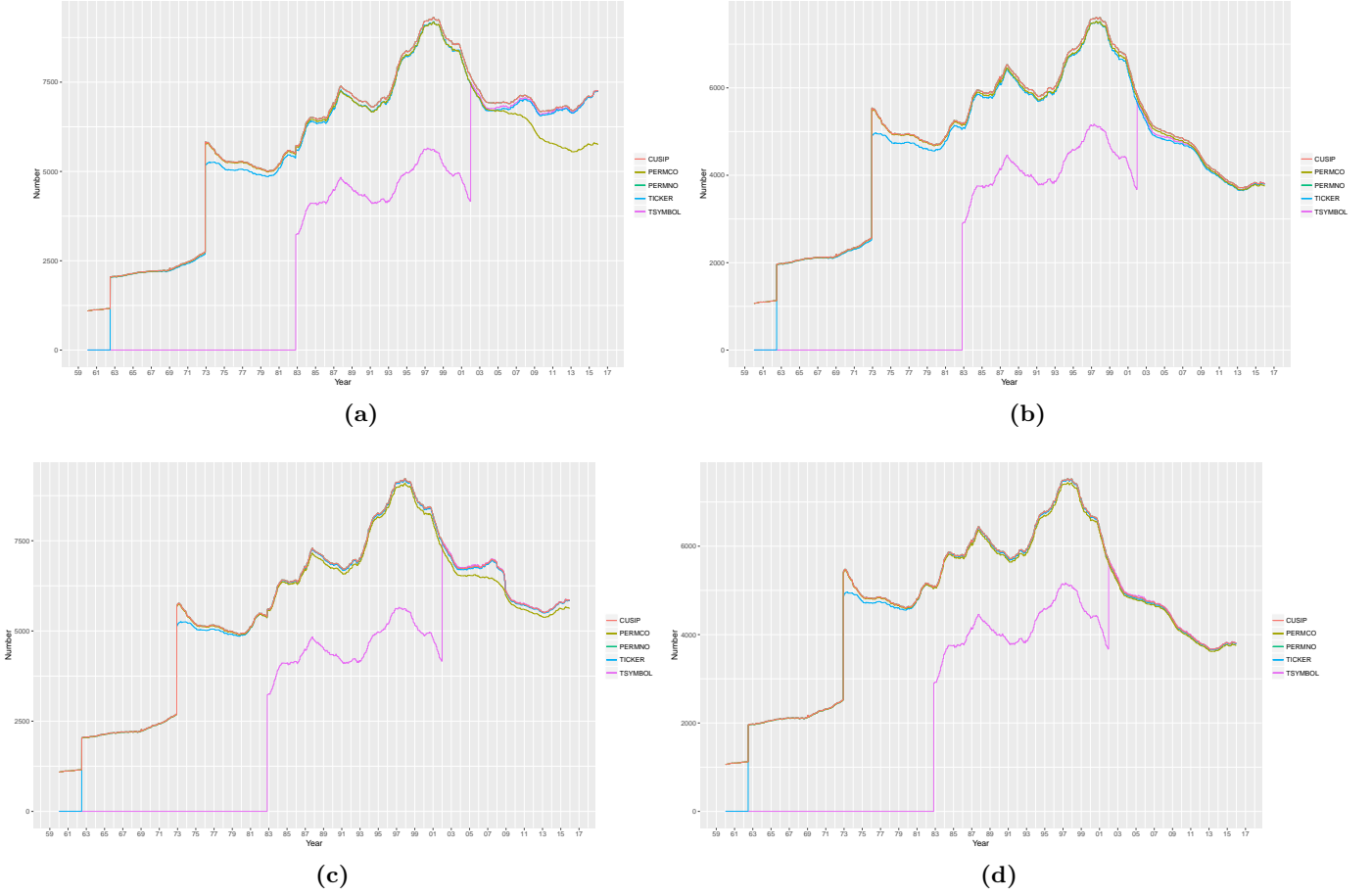


Figure A.1: Monthly number of stocks. (a): For every exchange in US stock database, and for every share code. Note that the number of stocks has decreased since 1997. There is a sudden increase in late 1972 because of the [inclusion](#) of Nasdaq. In November 1972 the different PERMNOs are 2573, but in December 1972, 5540. Last, note that the number of CUSIP and PERMNO is identical, so they are perfect substitutes, at least after some basic screening which requires valid data: `identical(DTsn$uniqCUSIPs, DTsn$uniqPERMNOs)` returns: `[1] TRUE`. (b): For every exchange in US stock database, but with share code 10 or 11. The only striking difference to Figure A.1a is after 2005. (c): For the three exchanges only, but with every share code. (d): For the three exchanges only, but with share code 10 or 11.

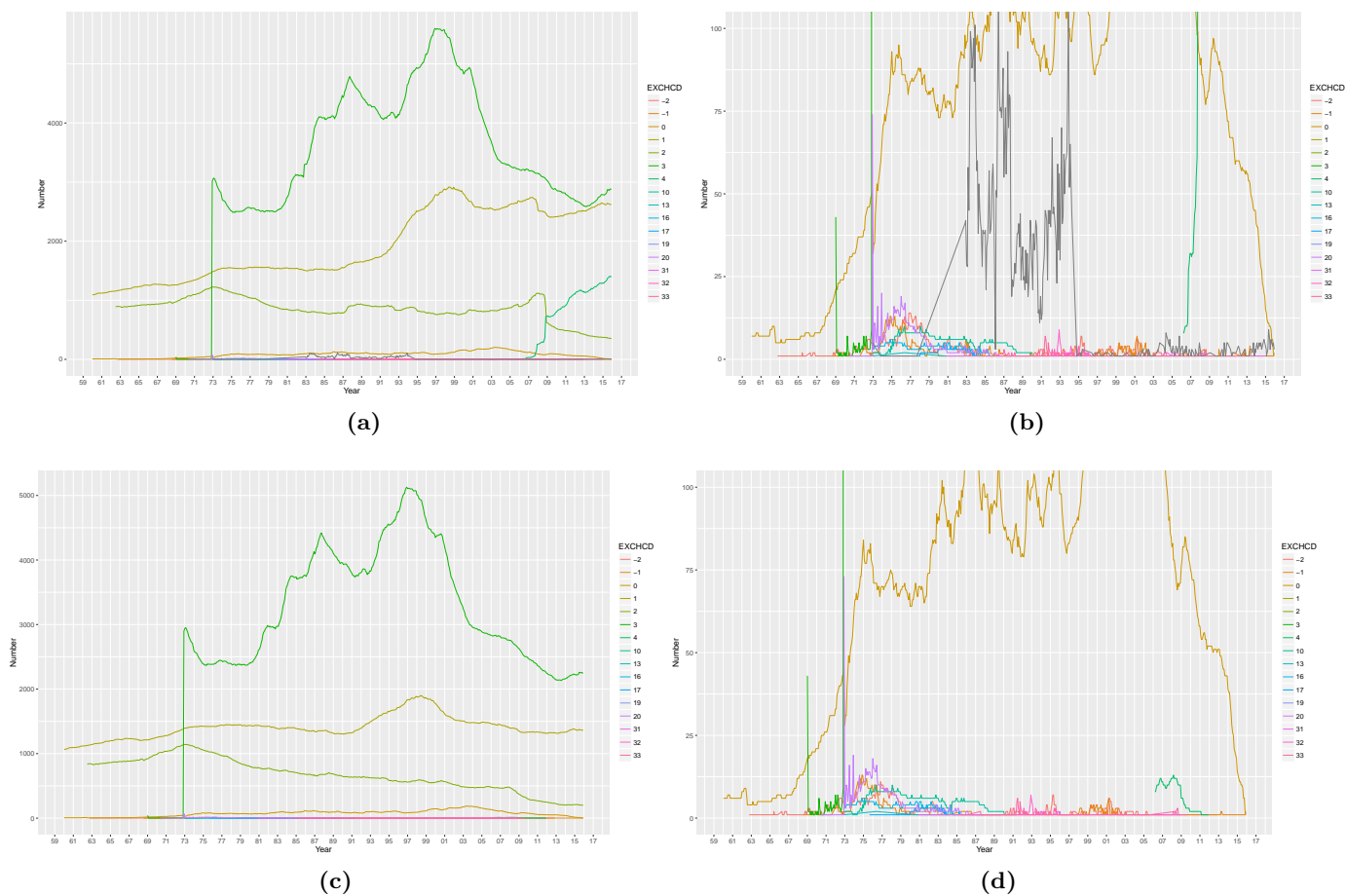


Figure A.2: Monthly number of stocks per stock exchange. (a): For every stock exchange. (b): Smaller scale of A.2a (c): For the NYSE, NYSE MKT and Nasdaq stock exchanges. (d): Smaller scale of A.2c

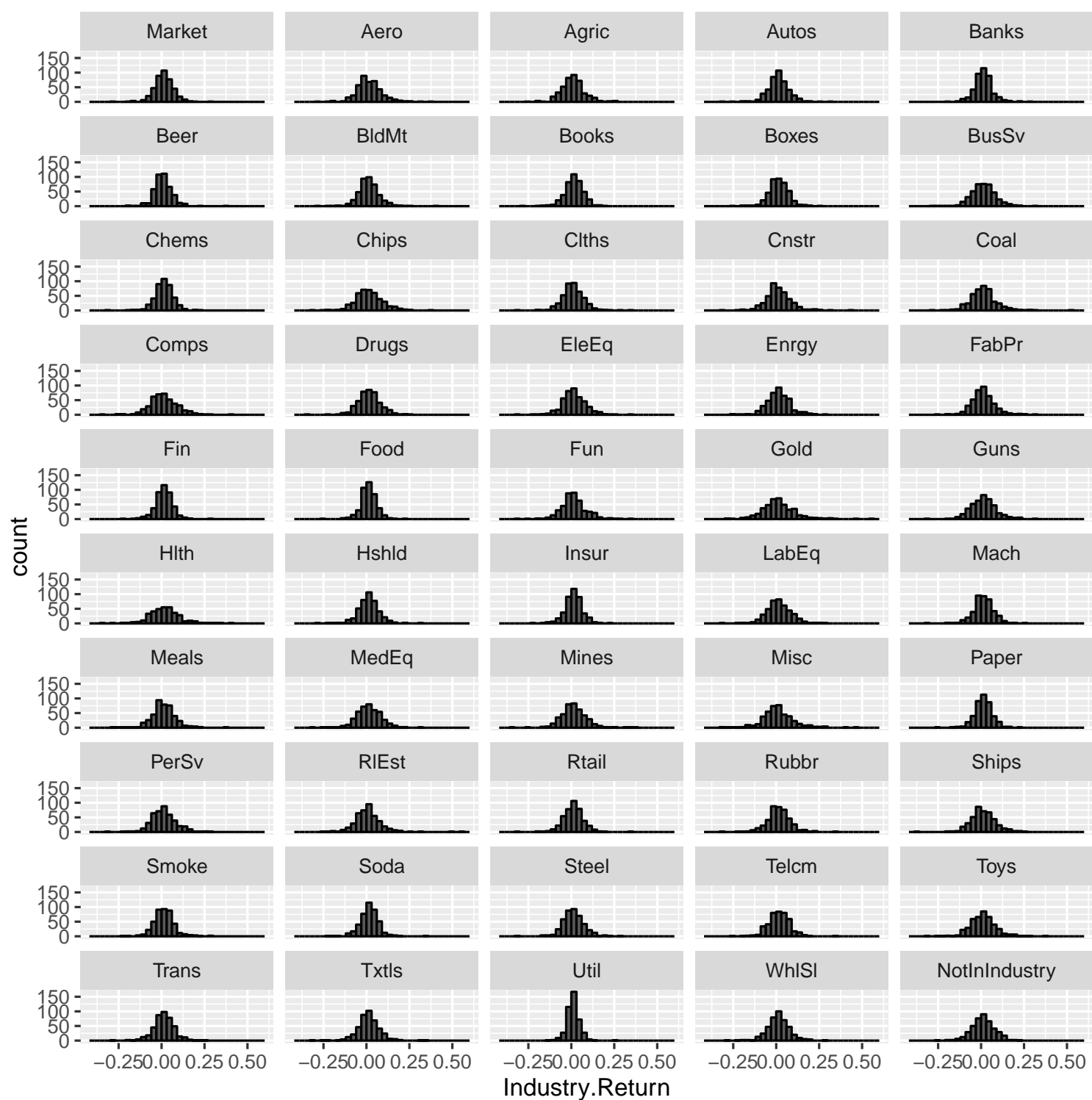


Figure A.3: Return histograms for the SIC 49 industries.

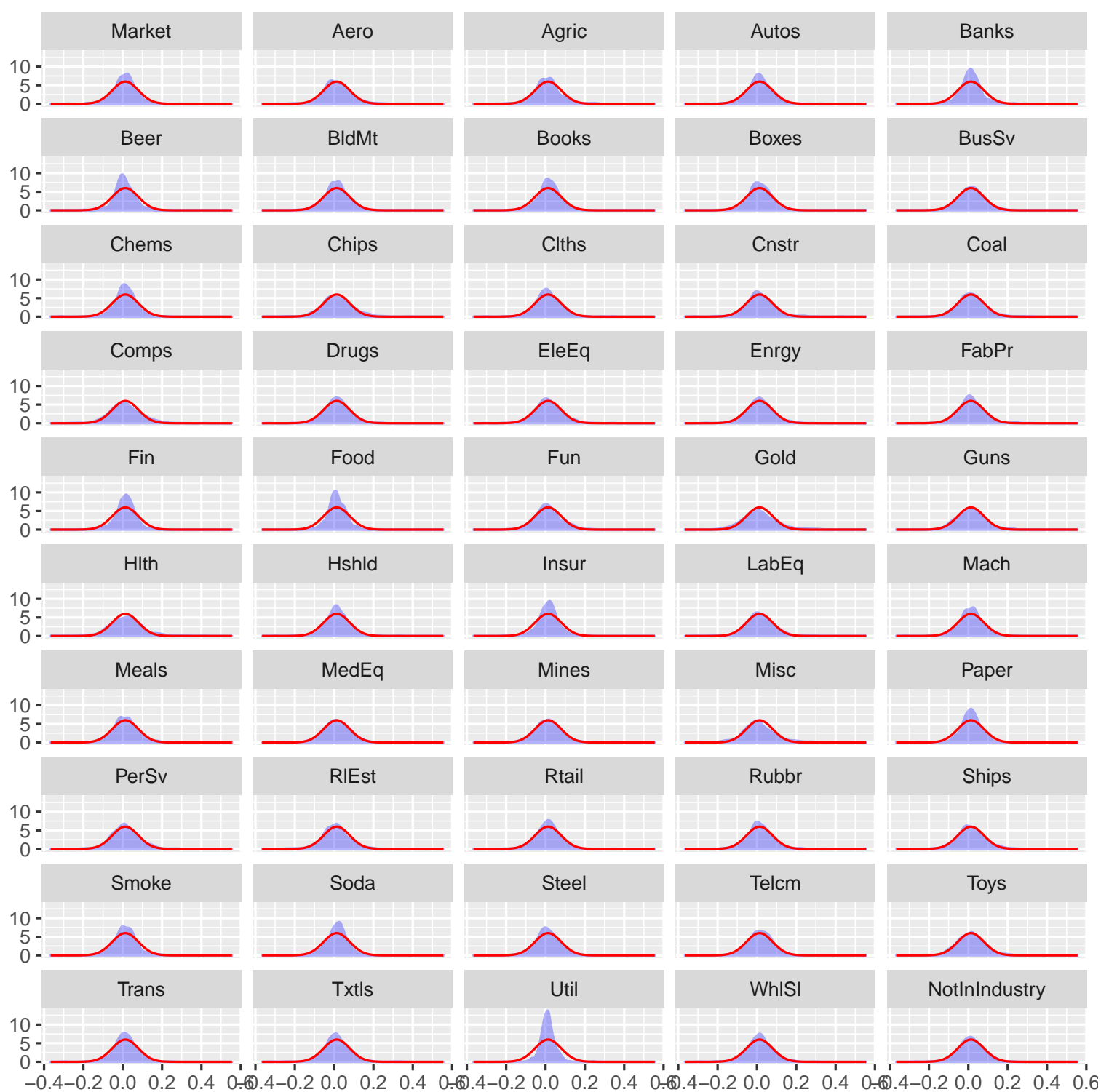


Figure A.4: Return Densities.

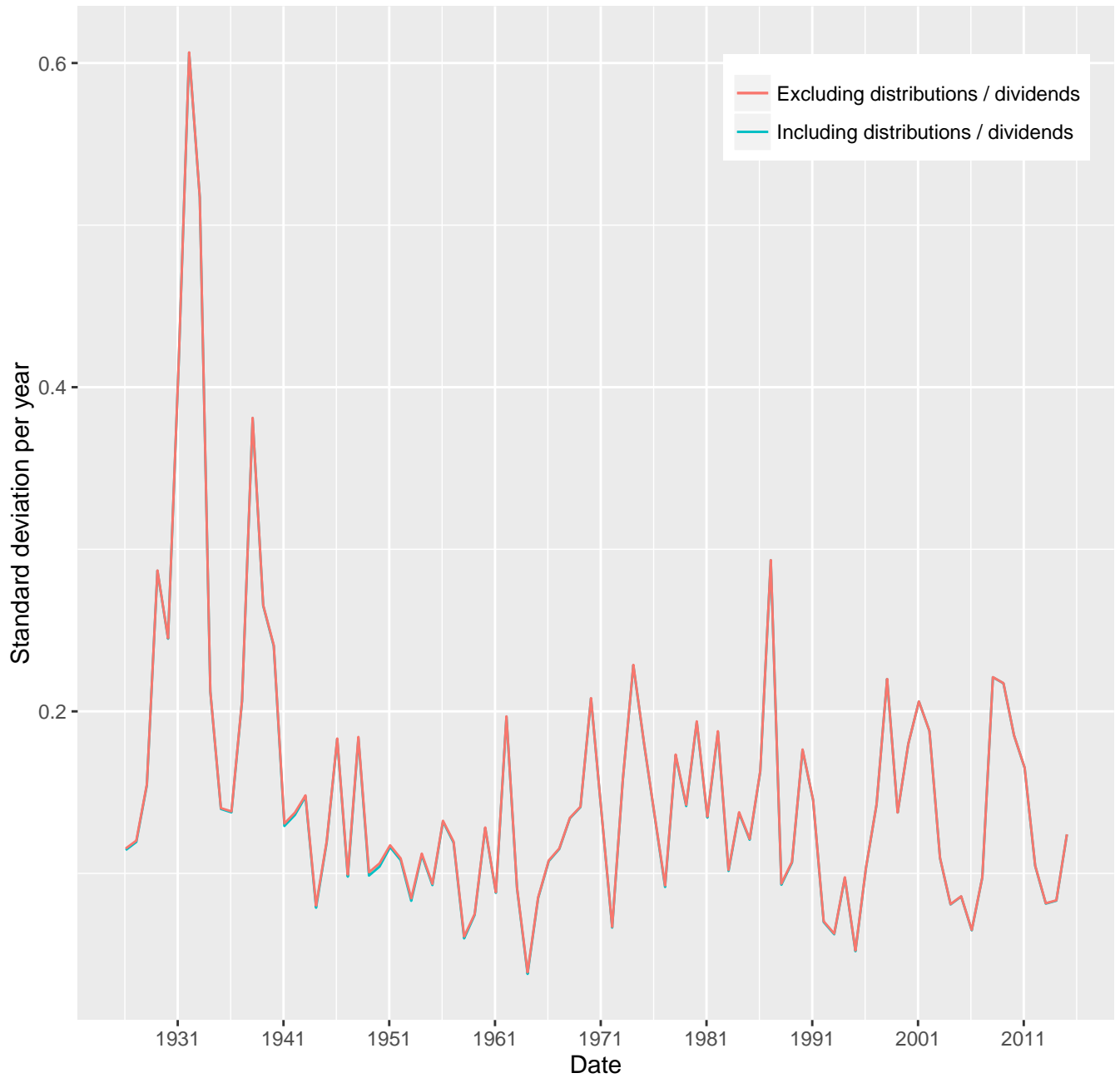


Figure A.5: Standard deviation of the value-weighted stock index including and excluding dividends. The difference between the two indices is indistinguishable and the Pearson, Spearman, Kendall correlation coefficients are 0.9999526, 0.9955056, 0.9998354, respectively.

2 Figures of the aggregate volatility series

In the process of replicating Campbell et al., I was not getting the paper's identical numbers (descriptive statistics) using their dataset as they described it. The Figures for *MKT* and *FIRM* were quite close to the published ones, but the value-weighted *IND* had a period around 1978–84 where the small kinks and trouts of their figure were different than mine. I experimented with different value-weighted based schemes. They were all graphically very close, with correlation coefficients of more than 0.999 in general, for the case of *MKT*. Figure A.6 presents some of the variations I tried.¹

Figure A.6: Animated value-weighted *IND*. The animation is visible with the Acrobat Reader. I think (not sure) that the last variant 7 is the equally-weighted one. I only used a strange variant, so as to be easy to see when the animation starts over.

In the thesis, I use three industry classifications: (i) the SIC-based 49 industry classification of Fama and French (1997), (ii) the SIC-based 10 division classification of the [U. S. Department of Labor](#) and (iii) the FIC-based 25 industry

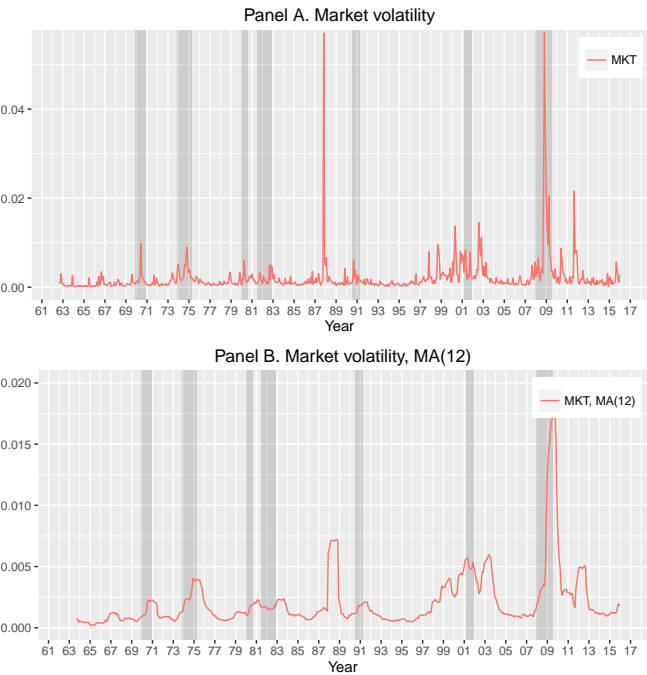
¹I tried around 10 variations, but as far as I remember only 6 were close enough to the original figure and descriptive statistics.

classification of Hoberg and Phillips (2010, 2015). Herewith, I will refer to the three industry classifications as SIC-49, SIC-10 and FIC-25, respectively. For each industry classification, the following three sections replicate Figures 2, 3 and 4 for the three aggregate volatility series, *MKT*, *IND* and *FIRM*, respectively.

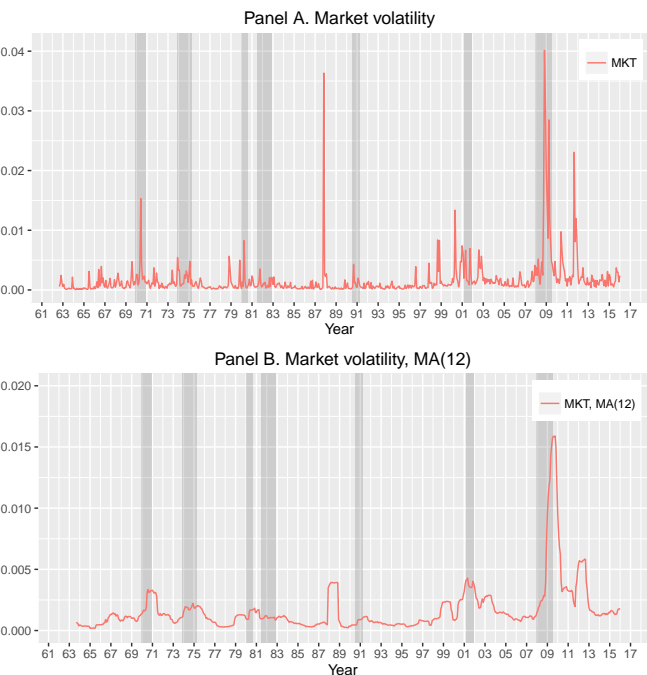
2.1 MKT

2.1.1 SIC-49

2.1.1.1 Value-weighted

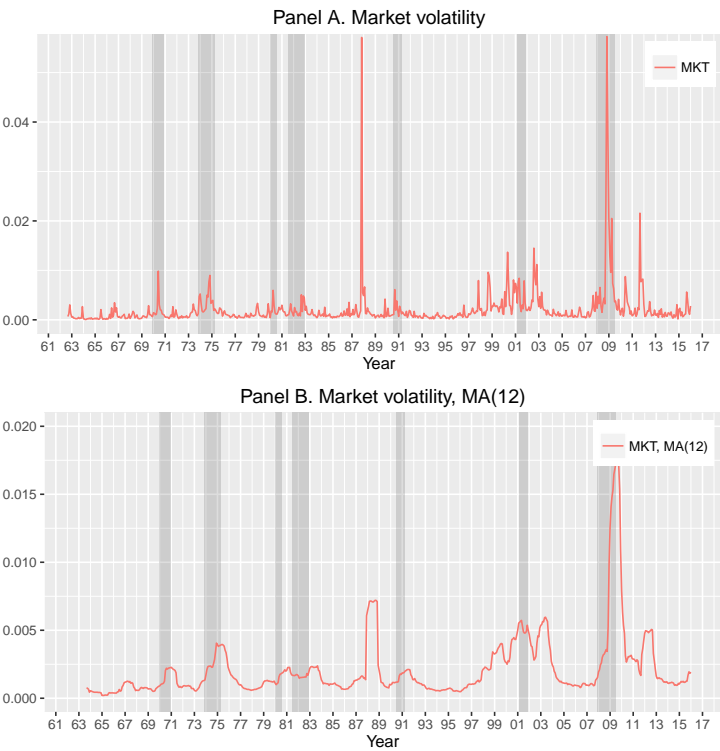


2.1.1.2 Equally-weighted

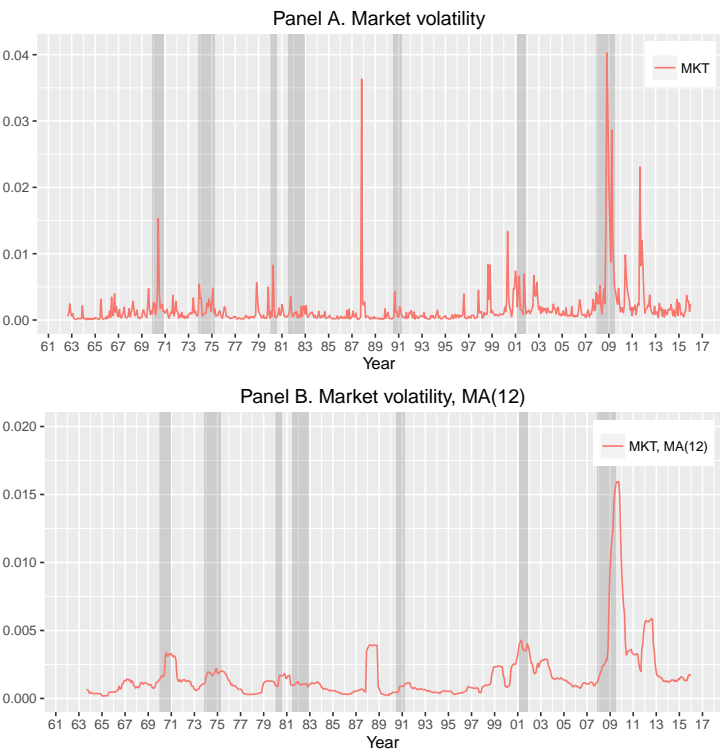


2.1.2 SIC-10

2.1.2.1 Value-weighted

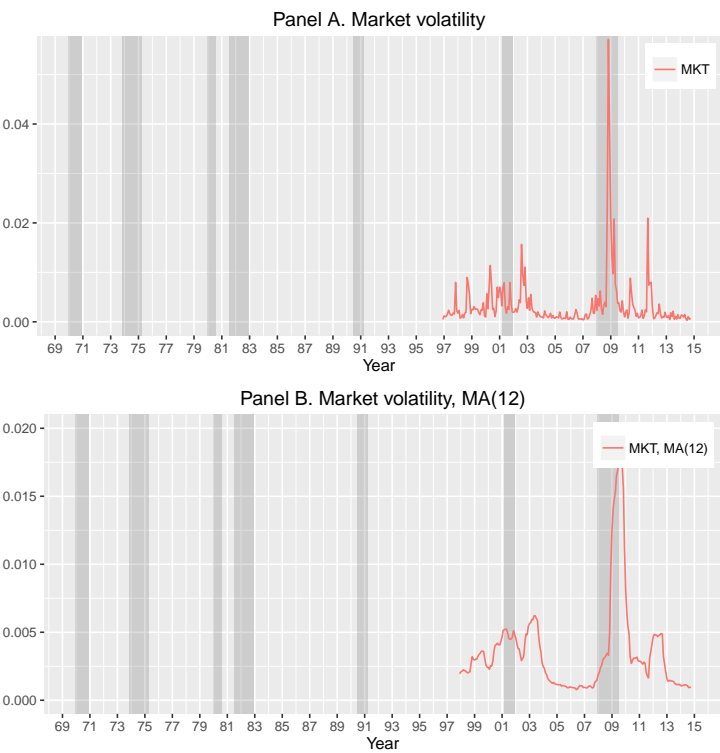


2.1.2.2 Equally-weighted

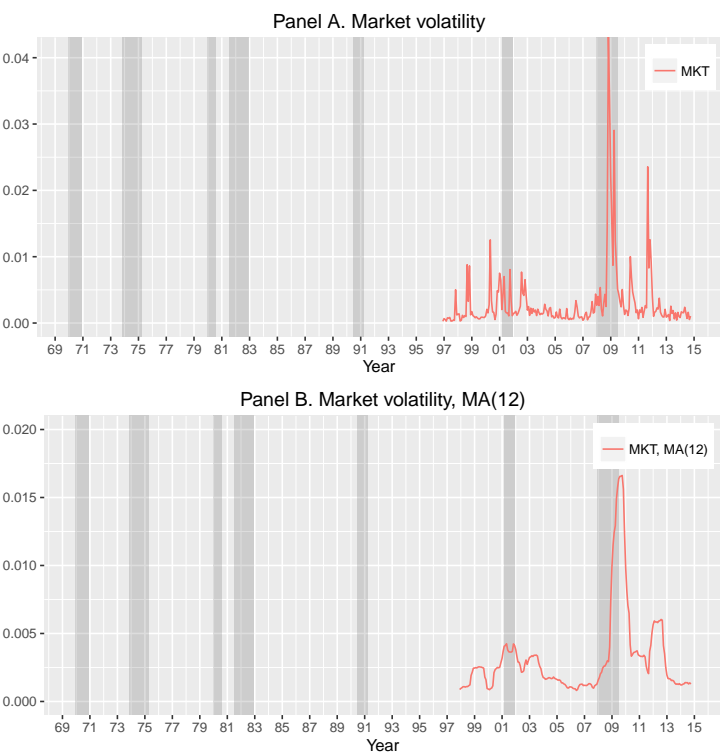


2.1.3 FIC-25

2.1.3.1 Value-weighted



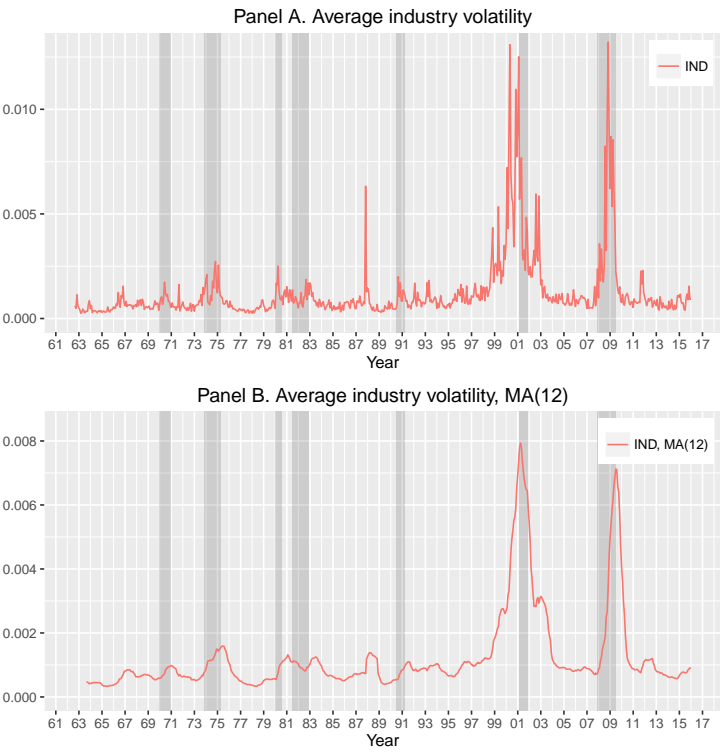
2.1.3.2 Equally-weighted



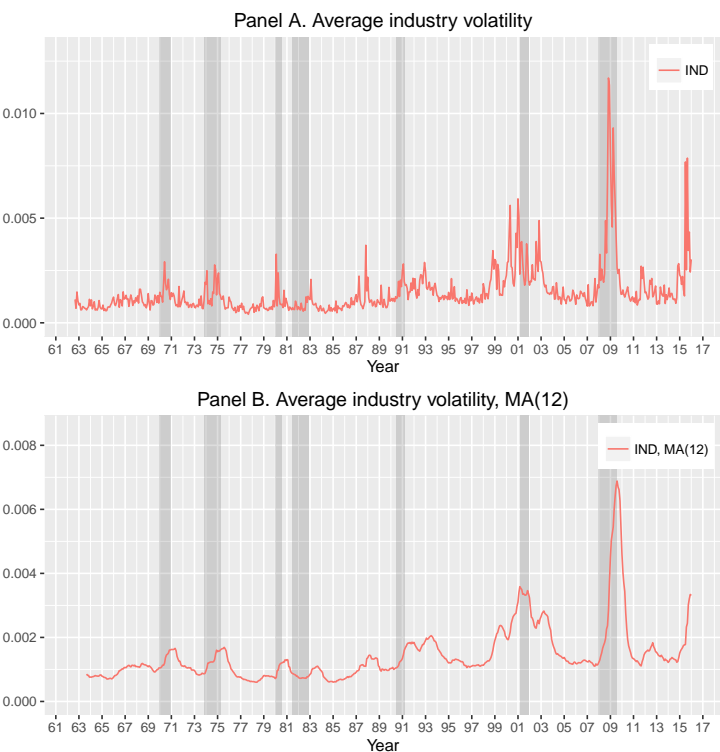
2.2 IND

2.2.1 SIC-49

2.2.1.1 Value-weighted

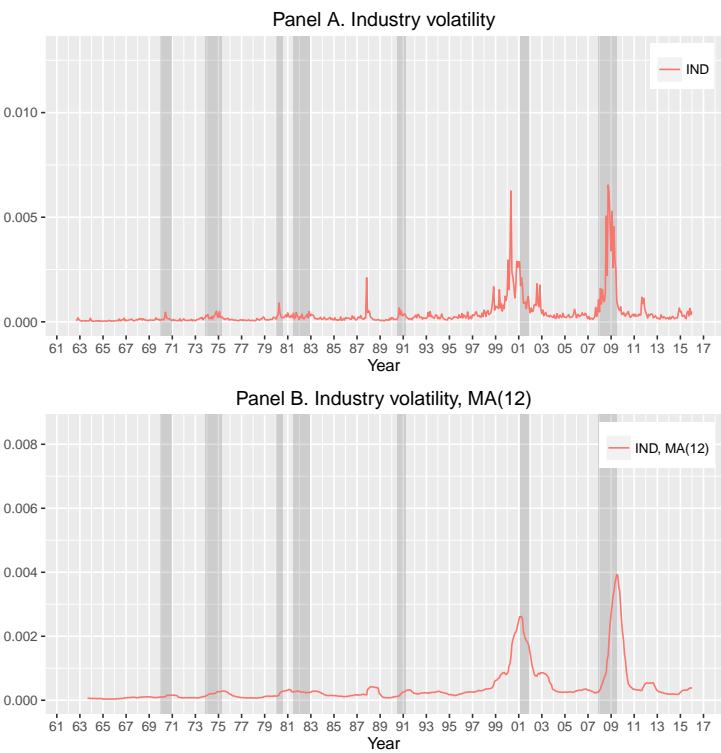


2.2.1.2 Equally-weighted

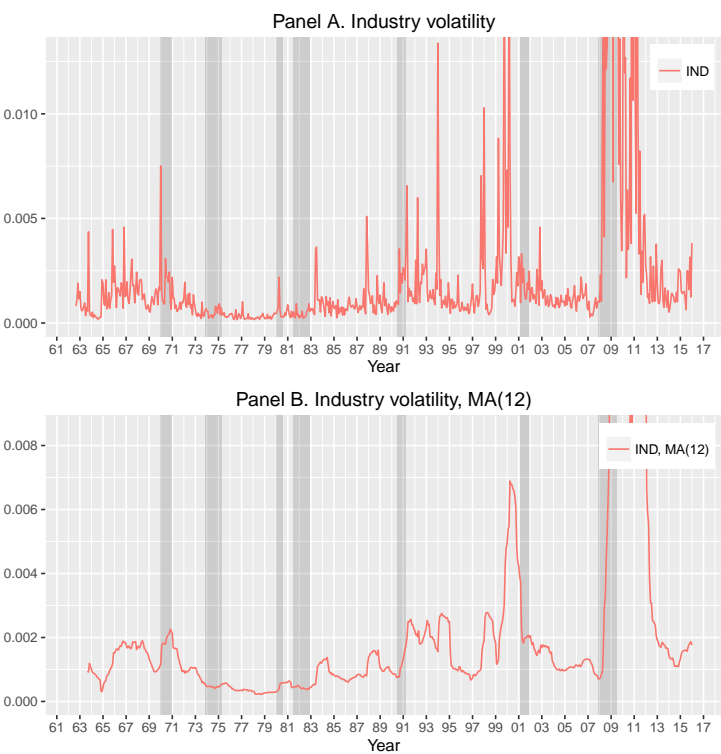


2.2.2 SIC-10

2.2.2.1 Value-weighted

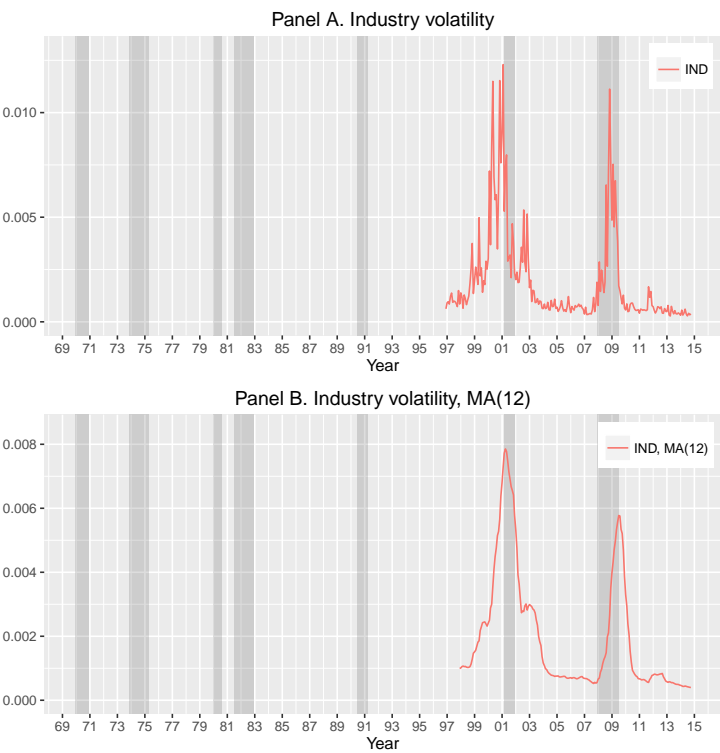


2.2.2.2 Equally-weighted

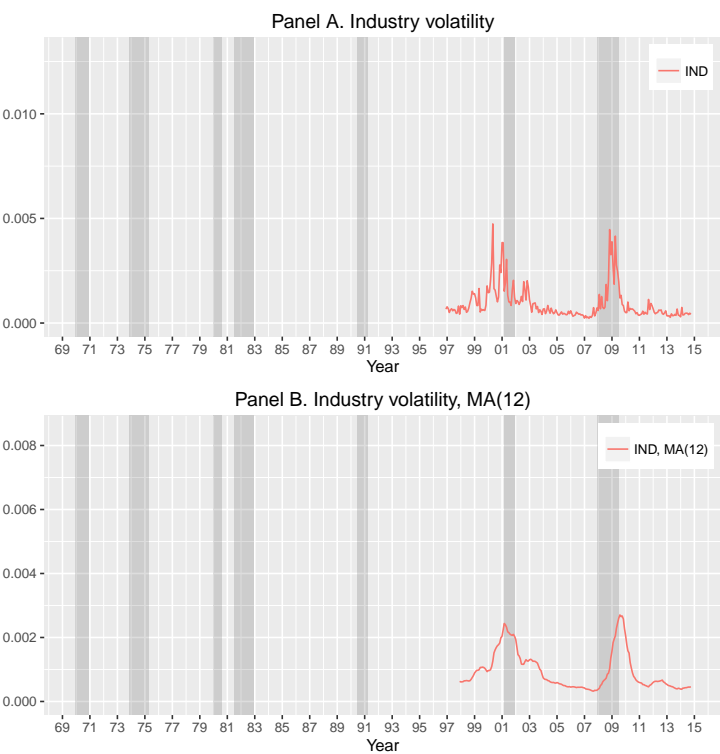


2.2.3 FIC-25

2.2.3.1 Value-weighted



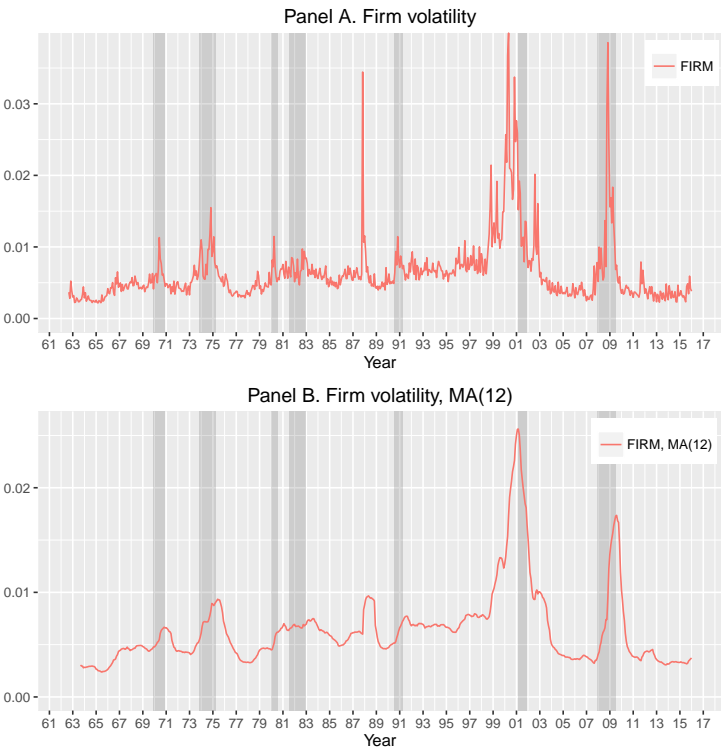
2.2.3.2 Equally-weighted



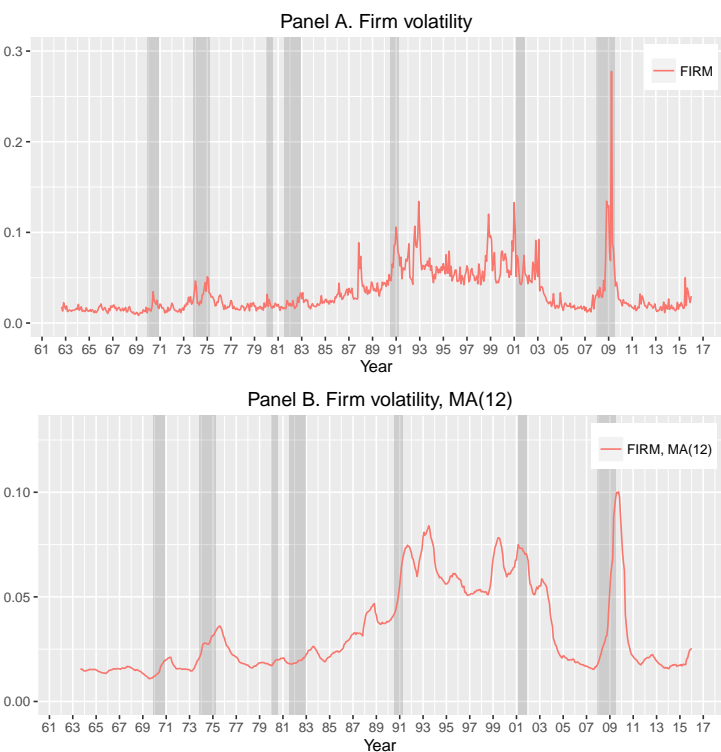
2.3 FIRM

2.3.1 SIC-49

2.3.1.1 Value-weighted

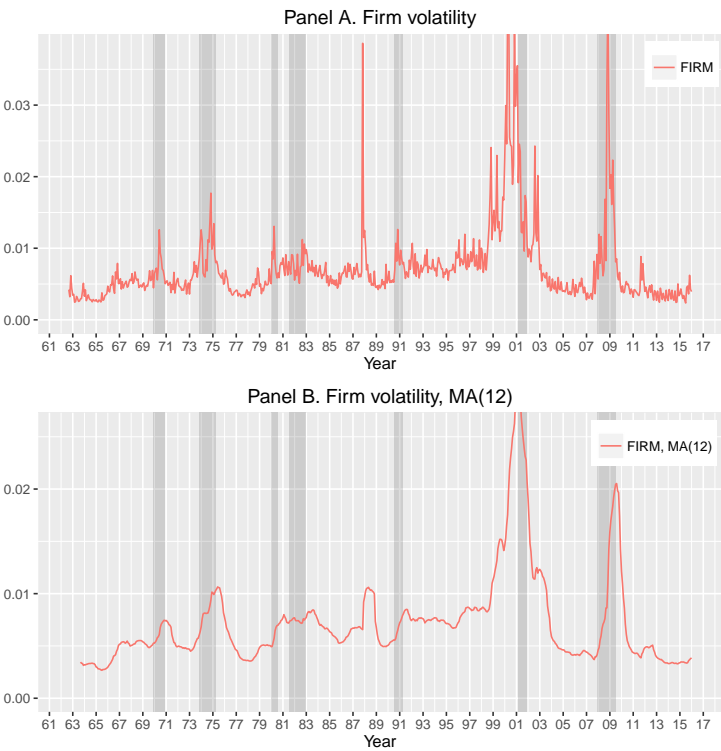


2.3.1.2 Equally-weighted

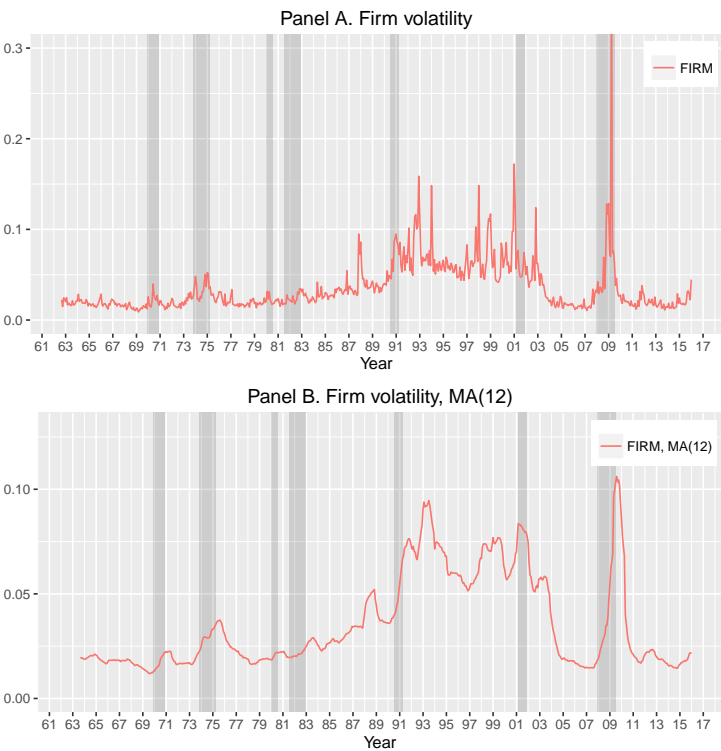


2.3.2 SIC-10

2.3.2.1 Value-weighted

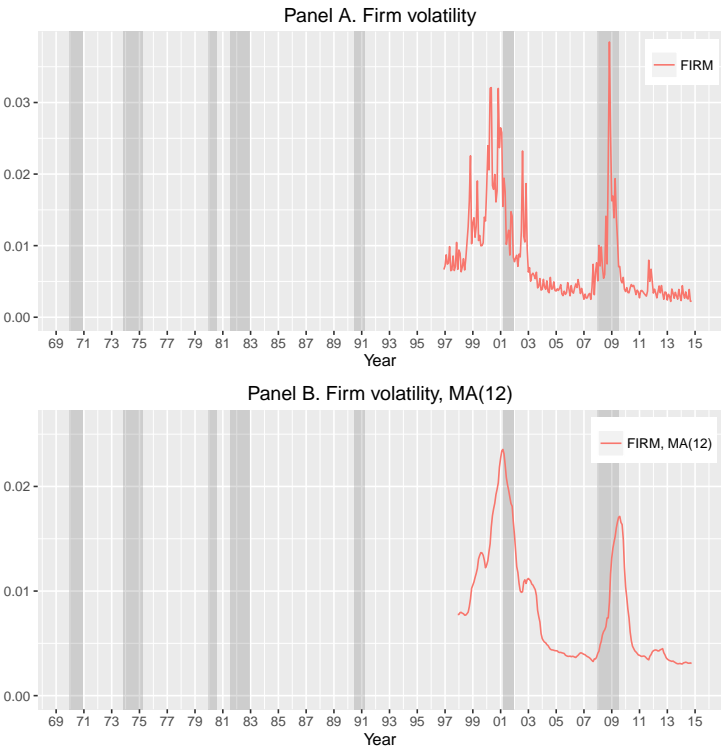


2.3.2.2 Equally-weighted

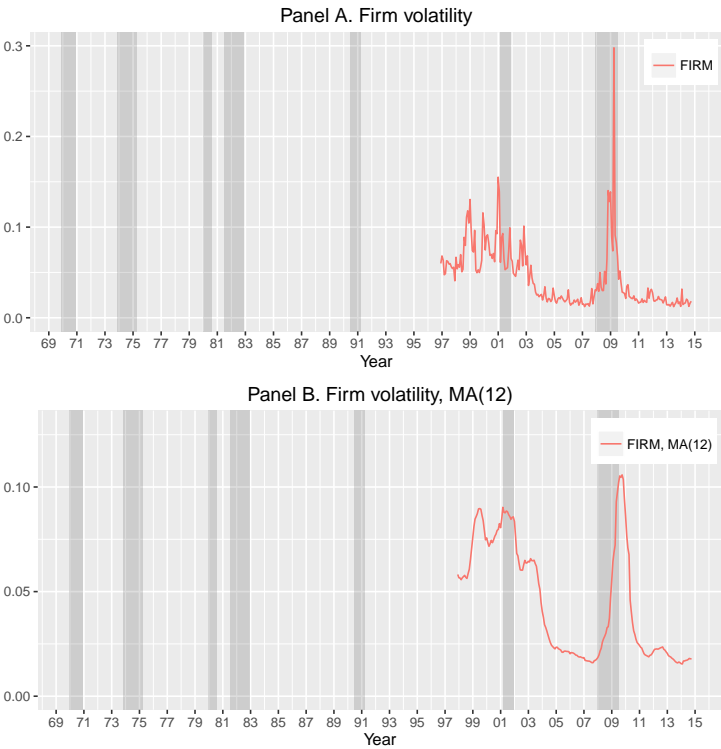


2.3.3 FIC-25

2.3.3.1 Value-weighted



2.3.3.2 Equally-weighted



Appendix B

Descriptives

1 Basic descriptives of the aggregate variables

1.1 SIC-49

| Period | Series | Mean (10^3) | Std. Dev. (10^3) | Std. Dev. detrended (10^3) | Linear Trend (10^6) | t-statistic |
|-----------------|--------|-----------------|----------------------|--------------------------------|-------------------------|-------------|
| 07:1963–12:2015 | MKTvw | 2.11 | 4.24 | 4.15 | 4.61 | 5.06 |
| | MKTew | 1.67 | 3.42 | 3.34 | 4.06 | 5.54 |
| | INDvw | 1.25 | 1.63 | 1.56 | 2.55 | 7.47 |
| | INDew | 1.47 | 1.17 | 1.08 | 2.58 | 10.93 |
| | FIRMvw | 6.45 | 4.61 | 4.54 | 4.25 | 4.27 |
| | FIRMew | 33.59 | 24.70 | 23.48 | 42.23 | 8.20 |
| 07:1963–12:1997 | MKTvw | 1.41 | 3.02 | 3.02 | 1.42 | 1.15 |
| | MKTew | 1.01 | 2.12 | 2.12 | -1.15 | -1.31 |
| | INDvw | 0.78 | 0.48 | 0.47 | 0.79 | 4.09 |
| | INDew | 1.09 | 0.48 | 0.47 | 0.96 | 4.98 |
| | FIRMvw | 5.78 | 2.38 | 2.16 | 8.41 | 9.46 |
| | FIRMew | 31.25 | 20.43 | 13.35 | 129.25 | 23.51 |
| 01:1998–12:2015 | MKTvw | 3.46 | 5.67 | 5.67 | -4.97 | -0.80 |
| | MKTew | 2.95 | 4.81 | 4.79 | 5.25 | 1.00 |
| | INDvw | 2.15 | 2.46 | 2.28 | -14.86 | -5.96 |
| | INDew | 2.19 | 1.67 | 1.67 | -1.04 | -0.57 |
| | FIRMvw | 7.72 | 6.98 | 6.02 | -56.61 | -8.60 |
| | FIRMew | 38.08 | 30.87 | 27.46 | -225.71 | -7.52 |

1.2 SIC-10

| Period | Series | Mean (10^3) | Std. Dev. (10^3) | Std. Dev. detrended (10^3) | Linear Trend (10^6) | t-statistic |
|-----------------|--------|-----------------|----------------------|--------------------------------|-------------------------|-------------|
| 07:1963–12:2015 | MKTvw | 2.11 | 4.24 | 4.15 | 4.60 | 5.06 |
| | MKTew | 1.67 | 3.43 | 3.35 | 4.06 | 5.53 |
| | INDvw | 0.39 | 0.72 | 0.67 | 1.36 | 9.20 |
| | INDew | 2.69 | 9.42 | 9.19 | 11.48 | 5.70 |
| | FIRMvw | 7.28 | 5.53 | 5.44 | 5.23 | 4.38 |
| | FIRMew | 35.80 | 28.46 | 27.51 | 39.96 | 6.62 |
| 07:1963–12:1997 | MKTvw | 1.41 | 3.02 | 3.02 | 1.42 | 1.15 |
| | MKTew | 1.01 | 2.12 | 2.12 | -1.15 | -1.32 |
| | INDvw | 0.17 | 0.15 | 0.14 | 0.48 | 8.45 |
| | INDew | 1.10 | 1.24 | 1.23 | 1.44 | 2.86 |
| | FIRMvw | 6.40 | 2.69 | 2.48 | 8.72 | 8.55 |
| | FIRMew | 34.31 | 23.44 | 16.21 | 141.56 | 21.21 |
| 01:1998–12:2015 | MKTvw | 3.46 | 5.68 | 5.67 | -5.01 | -0.81 |
| | MKTew | 2.95 | 4.82 | 4.81 | 5.20 | 0.99 |
| | INDvw | 0.81 | 1.09 | 1.07 | -3.65 | -3.12 |
| | INDew | 5.74 | 15.58 | 15.48 | 27.53 | 1.63 |
| | FIRMvw | 8.98 | 8.43 | 7.23 | -69.34 | -8.77 |
| | FIRMew | 38.65 | 36.07 | 32.90 | -236.69 | -6.58 |

1.3 FIC-25

| Period | Series | Mean (10^3) | Std. Dev. (10^3) | Std. Dev. detrended (10^3) | Linear Trend (10^6) | t-statistic |
|-----------------|--------|-----------------|----------------------|--------------------------------|-------------------------|-------------|
| 07:1963–12:2015 | MKTvw | 3.42 | 5.68 | 5.68 | 1.27 | 0.20 |
| | MKTew | 3.06 | 5.07 | 5.02 | 11.04 | 2.00 |
| | INDvw | 1.91 | 2.30 | 2.18 | -11.79 | -4.92 |
| | INDew | 0.92 | 0.79 | 0.77 | -2.92 | -3.43 |
| | FIRMvw | 7.98 | 6.52 | 5.76 | -49.15 | -7.75 |
| | FIRMew | 44.68 | 35.18 | 30.57 | -279.81 | -8.31 |
| 07:1963–12:1997 | MKTvw | 1.95 | 1.80 | 1.59 | 199.86 | 1.82 |
| | MKTew | 0.93 | 1.22 | 1.10 | 126.64 | 1.67 |
| | INDvw | 1.01 | 0.26 | 0.24 | 22.68 | 1.36 |
| | INDew | 0.63 | 0.13 | 0.13 | -3.96 | -0.45 |
| | FIRMvw | 7.80 | 1.35 | 1.31 | 75.86 | 0.84 |
| | FIRMew | 57.56 | 7.73 | 7.48 | -461.08 | -0.89 |
| 01:1998–12:2015 | MKTvw | 3.52 | 5.85 | 5.85 | -1.78 | -0.25 |
| | MKTew | 3.21 | 5.20 | 5.17 | 8.74 | 1.39 |
| | INDvw | 1.97 | 2.36 | 2.16 | -16.43 | -6.24 |
| | INDew | 0.94 | 0.82 | 0.78 | -4.22 | -4.45 |
| | FIRMvw | 7.99 | 6.73 | 5.74 | -60.56 | -8.66 |
| | FIRMew | 43.78 | 36.16 | 31.22 | -313.64 | -8.24 |

2 Correlations of the aggregate variables and factors

2.1 SIC-49

| Period | Series | MktRF | SMB | HML | RMW | CMA | MKTvw | MKTew | INDvw | INDew | FIRMvw | FIRMew |
|-----------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|--------|
| 07:1963–12:2015 | MktRF | 1 | | | | | | | | | | |
| | SMB | 0.279 | 1 | | | | | | | | | |
| | HML | -0.298 | -0.114 | 1 | | | | | | | | |
| | RMW | -0.204 | -0.362 | 0.086 | 1 | | | | | | | |
| | CMA | -0.387 | -0.112 | 0.702 | -0.087 | 1 | | | | | | |
| | MKTvw | -0.331 | -0.188 | -0.01 | 0.136 | 0.095 | 1 | | | | | |
| | MKTew | -0.307 | -0.166 | 0.001 | 0.119 | 0.078 | 0.937 | 1 | | | | |
| | INDvw | -0.171 | -0.056 | 0.06 | 0.151 | 0.131 | 0.668 | 0.643 | 1 | | | |
| | INDew | -0.124 | -0.02 | -0.041 | 0.085 | 0.031 | 0.697 | 0.735 | 0.777 | 1 | | |
| | FIRMvw | -0.177 | -0.112 | 0.059 | 0.138 | 0.149 | 0.665 | 0.578 | 0.909 | 0.66 | 1 | |
| | FIRMew | 0.021 | -0.006 | -0.055 | 0.036 | -0.016 | 0.445 | 0.435 | 0.589 | 0.665 | 0.655 | 1 |
| 07:1963–12:1997 | MktRF | 1 | | | | | | | | | | |
| | SMB | 0.297 | 1 | | | | | | | | | |
| | HML | -0.368 | -0.067 | 1 | | | | | | | | |
| | RMW | 0.083 | -0.204 | -0.504 | 1 | | | | | | | |
| | CMA | -0.424 | -0.189 | 0.752 | -0.518 | 1 | | | | | | |
| | MKTvw | -0.316 | -0.218 | 0.096 | -0.003 | 0.114 | 1 | | | | | |
| | MKTew | -0.395 | -0.232 | 0.143 | -0.013 | 0.131 | 0.926 | 1 | | | | |
| | INDvw | -0.153 | -0.151 | 0.141 | -0.108 | 0.176 | 0.761 | 0.719 | 1 | | | |
| | INDew | -0.039 | 0.004 | 0.006 | -0.084 | 0.025 | 0.417 | 0.463 | 0.612 | 1 | | |
| | FIRMvw | -0.159 | -0.209 | 0.109 | -0.014 | 0.146 | 0.776 | 0.702 | 0.908 | 0.627 | 1 | |
| | FIRMew | 0.077 | -0.025 | -0.037 | 0.062 | -0.045 | 0.181 | 0.104 | 0.347 | 0.664 | 0.521 | 1 |
| 01:1998–12:2015 | MktRF | 1 | | | | | | | | | | |
| | SMB | 0.223 | 1 | | | | | | | | | |
| | HML | -0.221 | -0.179 | 1 | | | | | | | | |
| | RMW | -0.467 | -0.53 | 0.522 | 1 | | | | | | | |
| | CMA | -0.345 | -0.017 | 0.651 | 0.265 | 1 | | | | | | |
| | MKTvw | -0.387 | -0.176 | -0.071 | 0.207 | 0.093 | 1 | | | | | |
| | MKTew | -0.298 | -0.14 | -0.066 | 0.173 | 0.058 | 0.941 | 1 | | | | |
| | INDvw | -0.26 | -0.05 | 0.087 | 0.219 | 0.174 | 0.679 | 0.621 | 1 | | | |
| | INDew | -0.222 | -0.036 | -0.04 | 0.135 | 0.05 | 0.786 | 0.788 | 0.751 | 1 | | |
| | FIRMvw | -0.223 | -0.083 | 0.058 | 0.195 | 0.178 | 0.62 | 0.514 | 0.937 | 0.65 | 1 | |
| | FIRMew | -0.03 | 0.008 | -0.057 | 0.023 | 0.012 | 0.59 | 0.589 | 0.726 | 0.728 | 0.741 | 1 |

2.2 SIC-10

| Period | Series | MktRF | SMB | HML | RMW | CMA | MKTvw | MKTew | INDvw | INDew | FIRMvw | FIRMew |
|-----------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|--------|
| 07:1963–12:2015 | MktRF | 1 | | | | | | | | | | |
| | SMB | 0.279 | 1 | | | | | | | | | |
| | HML | -0.298 | -0.114 | 1 | | | | | | | | |
| | RMW | -0.204 | -0.362 | 0.086 | 1 | | | | | | | |
| | CMA | -0.387 | -0.112 | 0.702 | -0.087 | 1 | | | | | | |
| | MKTvw | -0.331 | -0.188 | -0.011 | 0.136 | 0.095 | 1 | | | | | |
| | MKTew | -0.306 | -0.166 | 0.001 | 0.118 | 0.077 | 0.937 | 1 | | | | |
| | INDvw | -0.183 | -0.057 | 0.033 | 0.15 | 0.101 | 0.694 | 0.702 | 1 | | | |
| | INDew | -0.006 | 0.033 | -0.082 | -0.034 | -0.006 | 0.305 | 0.361 | 0.351 | 1 | | |
| | FIRMvw | -0.175 | -0.102 | 0.063 | 0.14 | 0.151 | 0.66 | 0.578 | 0.823 | 0.188 | 1 | |
| | FIRMew | 0.042 | -0.003 | -0.023 | 0.04 | -0.007 | 0.402 | 0.408 | 0.518 | 0.226 | 0.604 | 1 |
| 07:1963–12:1997 | MktRF | 1 | | | | | | | | | | |
| | SMB | 0.297 | 1 | | | | | | | | | |
| | HML | -0.368 | -0.067 | 1 | | | | | | | | |
| | RMW | 0.083 | -0.204 | -0.504 | 1 | | | | | | | |
| | CMA | -0.424 | -0.189 | 0.752 | -0.518 | 1 | | | | | | |
| | MKTvw | -0.316 | -0.218 | 0.096 | -0.003 | 0.114 | 1 | | | | | |
| | MKTew | -0.395 | -0.232 | 0.142 | -0.013 | 0.131 | 0.927 | 1 | | | | |
| | INDvw | -0.217 | -0.196 | 0.121 | 0.001 | 0.131 | 0.791 | 0.725 | 1 | | | |
| | INDew | -0.043 | -0.007 | 0.016 | 0.035 | -0.032 | 0.169 | 0.207 | 0.238 | 1 | | |
| | FIRMvw | -0.156 | -0.202 | 0.115 | -0.031 | 0.154 | 0.779 | 0.71 | 0.914 | 0.232 | 1 | |
| | FIRMew | 0.078 | -0.023 | -0.007 | 0.072 | -0.034 | 0.169 | 0.097 | 0.441 | 0.528 | 0.472 | 1 |
| 01:1998–12:2015 | MktRF | 1 | | | | | | | | | | |
| | SMB | 0.223 | 1 | | | | | | | | | |
| | HML | -0.221 | -0.179 | 1 | | | | | | | | |
| | RMW | -0.467 | -0.53 | 0.522 | 1 | | | | | | | |
| | CMA | -0.345 | -0.017 | 0.651 | 0.265 | 1 | | | | | | |
| | MKTvw | -0.386 | -0.176 | -0.071 | 0.207 | 0.093 | 1 | | | | | |
| | MKTew | -0.298 | -0.139 | -0.067 | 0.173 | 0.057 | 0.941 | 1 | | | | |
| | INDvw | -0.278 | -0.055 | 0.059 | 0.196 | 0.149 | 0.744 | 0.721 | 1 | | | |
| | INDew | -0.005 | 0.054 | -0.106 | -0.052 | -0.001 | 0.318 | 0.364 | 0.291 | 1 | | |
| | FIRMvw | -0.225 | -0.075 | 0.067 | 0.2 | 0.18 | 0.616 | 0.514 | 0.838 | 0.147 | 1 | |
| | FIRMew | 0.02 | 0.007 | -0.017 | 0.025 | 0.022 | 0.52 | 0.541 | 0.617 | 0.228 | 0.676 | 1 |

2.3 FIC-25

| Period | Series | MktRF | SMB | HML | RMW | CMA | MKTvw | MKTew | INDvw | INDew | FIRMvw | FIRMew |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|
| 07:1963–12:2015 | MktRF | 1 | | | | | | | | | | |
| | SMB | 0.224 | 1 | | | | | | | | | |
| | HML | -0.219 | -0.192 | 1 | | | | | | | | |
| | RMW | -0.468 | -0.533 | 0.532 | 1 | | | | | | | |
| | CMA | -0.355 | -0.019 | 0.648 | 0.266 | 1 | | | | | | |
| | MKTvw | -0.387 | -0.177 | -0.092 | 0.201 | 0.078 | 1 | | | | | |
| | MKTew | -0.304 | -0.142 | -0.085 | 0.168 | 0.047 | 0.948 | 1 | | | | |
| | INDvw | -0.266 | -0.041 | 0.098 | 0.227 | 0.186 | 0.603 | 0.543 | 1 | | | |
| | INDew | -0.151 | 0.001 | 0.014 | 0.128 | 0.084 | 0.69 | 0.694 | 0.899 | 1 | | |
| | FIRMvw | -0.241 | -0.086 | 0.023 | 0.191 | 0.163 | 0.626 | 0.532 | 0.937 | 0.863 | 1 | |
| | FIRMew | -0.01 | 0.029 | -0.091 | -0.008 | -0.011 | 0.54 | 0.535 | 0.718 | 0.823 | 0.795 | 1 |
| 07:1963–12:1997 | MktRF | 1 | | | | | | | | | | |
| | SMB | -0.288 | 1 | | | | | | | | | |
| | HML | -0.688 | -0.176 | 1 | | | | | | | | |
| | RMW | 0.272 | -0.828 | -0.086 | 1 | | | | | | | |
| | CMA | -0.703 | -0.184 | 0.84 | 0.1 | 1 | | | | | | |
| | MKTvw | -0.409 | -0.031 | 0.154 | 0.009 | 0.237 | 1 | | | | | |
| | MKTew | -0.416 | -0.071 | 0.19 | 0.053 | 0.312 | 0.972 | 1 | | | | |
| | INDvw | -0.392 | -0.223 | 0.26 | 0.23 | 0.237 | 0.638 | 0.64 | 1 | | | |
| | INDew | -0.118 | -0.162 | 0.082 | 0.291 | 0.131 | 0.335 | 0.443 | 0.63 | 1 | | |
| | FIRMvw | -0.129 | -0.448 | 0.142 | 0.371 | 0.127 | 0.605 | 0.603 | 0.828 | 0.652 | 1 | |
| | FIRMew | 0.253 | 0.219 | -0.388 | 0.04 | -0.381 | -0.123 | -0.076 | 0.206 | 0.705 | 0.292 | 1 |
| 01:1998–12:2015 | MktRF | 1 | | | | | | | | | | |
| | SMB | 0.234 | 1 | | | | | | | | | |
| | HML | -0.22 | -0.194 | 1 | | | | | | | | |
| | RMW | -0.476 | -0.532 | 0.533 | 1 | | | | | | | |
| | CMA | -0.353 | -0.023 | 0.648 | 0.268 | 1 | | | | | | |
| | MKTvw | -0.387 | -0.18 | -0.091 | 0.203 | 0.078 | 1 | | | | | |
| | MKTew | -0.304 | -0.144 | -0.084 | 0.17 | 0.047 | 0.948 | 1 | | | | |
| | INDvw | -0.266 | -0.042 | 0.098 | 0.23 | 0.186 | 0.602 | 0.542 | 1 | | | |
| | INDew | -0.15 | 0 | 0.014 | 0.13 | 0.084 | 0.69 | 0.694 | 0.9 | 1 | | |
| | FIRMvw | -0.242 | -0.087 | 0.023 | 0.192 | 0.163 | 0.626 | 0.532 | 0.937 | 0.863 | 1 | |
| | FIRMew | -0.011 | 0.029 | -0.092 | -0.01 | -0.012 | 0.544 | 0.539 | 0.722 | 0.826 | 0.797 | 1 |

3 Autocorrelation structure of the aggregate variables and factors

SIC-49:

| Period | Series | ρ^1 | ρ^2 | ρ^3 | ρ^{12} |
|-----------------|--------|----------|----------|----------|-------------|
| 07:1963–12:2015 | MktRF | 0.07 | -0.04 | 0.03 | 0.02 |
| | SMB | 0.06 | 0.05 | -0.07 | 0.04 |
| | HML | 0.16 | 0.04 | 0.04 | 0.05 |
| | RMW | 0.17 | 0.04 | -0.04 | 0.10 |
| | CMA | 0.13 | 0.05 | 0.06 | 0.05 |
| | MKTvw | 0.53 | 0.36 | 0.27 | 0.08 |
| | MKTew | 0.56 | 0.42 | 0.33 | 0.09 |
| | INDvw | 0.81 | 0.75 | 0.75 | 0.38 |
| | INDew | 0.77 | 0.71 | 0.61 | 0.25 |
| | FIRMvw | 0.80 | 0.72 | 0.69 | 0.41 |
| | FIRMew | 0.80 | 0.76 | 0.74 | 0.53 |
| 07:1963–12:1997 | MktRF | 0.05 | -0.02 | -0.01 | 0.00 |
| | SMB | 0.17 | 0.03 | -0.05 | 0.11 |
| | HML | 0.18 | 0.04 | -0.02 | 0.02 |
| | RMW | 0.16 | 0.10 | -0.02 | 0.04 |
| | CMA | 0.18 | 0.06 | -0.03 | 0.04 |
| | MKTvw | 0.16 | 0.12 | 0.12 | 0.01 |
| | MKTew | 0.13 | 0.06 | 0.05 | 0.01 |
| | INDvw | 0.44 | 0.41 | 0.35 | 0.05 |
| | INDew | 0.58 | 0.55 | 0.47 | 0.29 |
| | FIRMvw | 0.55 | 0.51 | 0.46 | 0.22 |
| | FIRMew | 0.91 | 0.87 | 0.83 | 0.77 |
| 01:1998–12:2015 | MktRF | 0.11 | -0.06 | 0.08 | 0.07 |
| | SMB | -0.09 | 0.07 | -0.10 | -0.05 |
| | HML | 0.13 | 0.05 | 0.10 | 0.09 |
| | RMW | 0.18 | 0.01 | -0.05 | 0.14 |
| | CMA | 0.06 | 0.03 | 0.18 | 0.07 |
| | MKTvw | 0.70 | 0.43 | 0.29 | 0.03 |
| | MKTew | 0.67 | 0.49 | 0.36 | 0.02 |
| | INDvw | 0.79 | 0.73 | 0.72 | 0.28 |
| | INDew | 0.74 | 0.66 | 0.52 | 0.06 |
| | FIRMvw | 0.84 | 0.75 | 0.72 | 0.42 |
| | FIRMew | 0.71 | 0.65 | 0.65 | 0.28 |

SIC-10

| Period | Series | ρ^1 | ρ^2 | ρ^3 | ρ^{12} |
|-----------------|--------|----------|----------|----------|-------------|
| 07:1963–12:2015 | MktRF | 0.07 | -0.04 | 0.03 | 0.02 |
| | SMB | 0.06 | 0.05 | -0.07 | 0.04 |
| | HML | 0.16 | 0.04 | 0.04 | 0.05 |
| | RMW | 0.17 | 0.04 | -0.04 | 0.10 |
| | CMA | 0.13 | 0.05 | 0.06 | 0.05 |
| | MKTvw | 0.53 | 0.36 | 0.27 | 0.08 |
| | MKTew | 0.56 | 0.42 | 0.33 | 0.09 |
| | INDvw | 0.80 | 0.79 | 0.72 | 0.29 |
| | INDew | 0.30 | 0.42 | 0.35 | 0.14 |
| | FIRMvw | 0.80 | 0.73 | 0.71 | 0.42 |
| | FIRMew | 0.71 | 0.66 | 0.65 | 0.47 |
| 07:1963–12:1997 | MktRF | 0.05 | -0.02 | -0.01 | 0.00 |
| | SMB | 0.17 | 0.03 | -0.05 | 0.11 |
| | HML | 0.18 | 0.04 | -0.02 | 0.02 |
| | RMW | 0.16 | 0.10 | -0.02 | 0.04 |
| | CMA | 0.18 | 0.06 | -0.03 | 0.04 |
| | MKTvw | 0.16 | 0.12 | 0.12 | 0.01 |
| | MKTew | 0.13 | 0.06 | 0.05 | 0.01 |
| | INDvw | 0.43 | 0.41 | 0.33 | 0.12 |
| | INDew | 0.36 | 0.27 | 0.29 | 0.16 |
| | FIRMvw | 0.54 | 0.50 | 0.45 | 0.19 |
| | FIRMew | 0.84 | 0.79 | 0.77 | 0.68 |
| 01:1998–12:2015 | MktRF | 0.11 | -0.06 | 0.08 | 0.07 |
| | SMB | -0.09 | 0.07 | -0.10 | -0.05 |
| | HML | 0.13 | 0.05 | 0.10 | 0.09 |
| | RMW | 0.18 | 0.01 | -0.05 | 0.14 |
| | CMA | 0.06 | 0.03 | 0.18 | 0.07 |
| | MKTvw | 0.70 | 0.43 | 0.29 | 0.03 |
| | MKTew | 0.67 | 0.49 | 0.36 | 0.02 |
| | INDvw | 0.77 | 0.75 | 0.68 | 0.14 |
| | INDew | 0.26 | 0.39 | 0.31 | 0.08 |
| | FIRMvw | 0.84 | 0.75 | 0.74 | 0.42 |
| | FIRMew | 0.58 | 0.54 | 0.54 | 0.24 |

| Period | Series | ρ^1 | ρ^2 | ρ^3 | ρ^{12} |
|-----------------|--------|----------|----------|----------|-------------|
| 07:1963–12:2015 | MktRF | 0.10 | -0.03 | 0.07 | 0.03 |
| | SMB | -0.07 | 0.05 | -0.09 | -0.06 |
| | HML | 0.12 | 0.03 | 0.09 | 0.07 |
| | RMW | 0.18 | 0.01 | -0.05 | 0.12 |
| | CMA | 0.06 | 0.02 | 0.15 | 0.06 |
| | MKTvw | 0.70 | 0.43 | 0.29 | 0.02 |
| | MKTew | 0.67 | 0.49 | 0.36 | 0.02 |
| | INDvw | 0.80 | 0.74 | 0.76 | 0.31 |
| | INDew | 0.76 | 0.66 | 0.61 | 0.22 |
| | FIRMvw | 0.83 | 0.74 | 0.73 | 0.40 |
| | FIRMew | 0.72 | 0.67 | 0.66 | 0.35 |
| 07:1963–12:1997 | MktRF | -0.33 | 0.17 | -0.23 | -0.13 |
| | SMB | -0.10 | -0.12 | 0.08 | -0.07 |
| | HML | 0.01 | -0.24 | -0.28 | -0.13 |
| | RMW | -0.05 | 0.06 | 0.01 | -0.03 |
| | CMA | 0.16 | 0.18 | -0.29 | -0.01 |
| | MKTvw | 0.06 | -0.00 | -0.05 | -0.21 |
| | MKTew | 0.05 | 0.04 | -0.09 | -0.15 |
| | INDvw | -0.18 | 0.14 | -0.08 | -0.22 |
| | INDew | -0.35 | 0.05 | 0.06 | -0.05 |
| | FIRMvw | -0.39 | -0.10 | 0.41 | -0.04 |
| | FIRMew | -0.01 | -0.25 | -0.21 | -0.16 |

FIC-25:

| | | | | | |
|-----------------|--------|-------|-------|-------|-------|
| 01:1998–12:2015 | MktRF | 0.12 | -0.05 | 0.08 | 0.06 |
| | SMB | -0.07 | 0.06 | -0.11 | -0.05 |
| | HML | 0.13 | 0.04 | 0.10 | 0.10 |
| | RMW | 0.18 | 0.00 | -0.05 | 0.13 |
| | CMA | 0.05 | 0.02 | 0.18 | 0.07 |
| | MKTvw | 0.71 | 0.43 | 0.29 | 0.02 |
| | MKTew | 0.67 | 0.49 | 0.35 | 0.01 |
| | INDvw | 0.80 | 0.74 | 0.76 | 0.30 |
| | INDew | 0.76 | 0.66 | 0.61 | 0.22 |
| | FIRMvw | 0.84 | 0.74 | 0.73 | 0.40 |
| | FIRMew | 0.72 | 0.67 | 0.66 | 0.34 |

4 Correlations between IIND and AIFIRM

For each tabular, the two different columns represent the correlations between IINDvw to AIFIRMvw and IINDew to AIFIRMew, respectively. The averages are not weighted (simple means).

4.1 SIC-49

| Industry | Value-Weighted | Equally-Weighted |
|---------------|----------------|------------------|
| Aero | 0.35 | 0.77 |
| Agric | 0.57 | 0.77 |
| Autos | 0.77 | 0.76 |
| Banks | 0.82 | 0.39 |
| Beer | 0.17 | 0.87 |
| BldMt | 0.49 | 0.93 |
| Books | 0.58 | 0.68 |
| Boxes | 0.63 | 0.83 |
| BusSv | 0.79 | 0.41 |
| Chems | 0.66 | 0.89 |
| Chips | 0.75 | 0.51 |
| Clths | 0.58 | 0.62 |
| Cnstr | 0.41 | 0.53 |
| Coal | 0.41 | 0.47 |
| Comps | 0.69 | 0.86 |
| Drugs | 0.79 | 0.51 |
| EleEq | 0.64 | 0.58 |
| Enrgy | 0.53 | 0.39 |
| FabPr | 0.48 | 0.82 |
| Fin | 0.80 | 0.52 |
| Food | 0.61 | 0.83 |
| Fun | 0.56 | 0.77 |
| Gold | 0.47 | 0.27 |
| Guns | 0.42 | 0.82 |
| Hshld | 0.73 | 0.77 |
| Insur | 0.74 | 0.54 |
| LabEq | 0.83 | 0.65 |
| Mach | 0.75 | 0.54 |
| Meals | 0.67 | 0.45 |
| MedEq | 0.65 | 0.26 |
| Mines | 0.62 | 0.60 |
| Misc | 0.28 | 0.39 |
| NotInIndustry | 0.60 | 0.84 |
| Paper | 0.68 | 0.85 |
| PerSv | 0.53 | 0.76 |
| RIEst | 0.66 | 0.73 |
| Rtail | 0.65 | 0.42 |
| Rubbr | 0.63 | 0.73 |
| Ships | 0.50 | 0.82 |
| Smoke | 0.45 | 0.98 |
| Soda | 0.74 | 0.63 |
| Steel | 0.72 | 0.48 |
| Telcm | 0.82 | 0.70 |
| Toys | 0.67 | 0.77 |
| Trans | 0.70 | 0.52 |
| Txtls | 0.58 | 0.75 |
| Util | 0.82 | 0.46 |
| WhlSl | 0.74 | 0.40 |
| Hlth | 0.50 | -0.09 |
| Average | 0.62 | 0.63 |

4.2 SIC-10

| Division | Value-Weighted | Equally-Weighted |
|------------|----------------|------------------|
| Division.A | 0.08 | 0.24 |
| Division.B | 0.42 | 0.38 |
| Division.C | 0.41 | 0.53 |
| Division.D | 0.74 | 0.47 |
| Division.E | 0.86 | 0.65 |
| Division.F | 0.74 | 0.40 |
| Division.G | 0.63 | 0.38 |
| Division.H | 0.85 | 0.48 |
| Division.I | 0.82 | 0.40 |
| Division.J | -0.03 | 0.01 |
| Average | 0.55 | 0.40 |

4.3 FIC-25

| Industry | Value-Weighted | Equally-Weighted |
|----------|----------------|------------------|
| 1 | 0.81 | 0.62 |
| 2 | 0.83 | 0.63 |
| 3 | 0.82 | 0.70 |
| 4 | 0.76 | 0.73 |
| 5 | 0.72 | 0.51 |
| 6 | 0.72 | 0.50 |
| 7 | 0.78 | 0.52 |
| 8 | 0.81 | 0.54 |
| 9 | 0.91 | 0.60 |
| 10 | 0.57 | 0.69 |
| 11 | 0.72 | 0.90 |
| 12 | 0.88 | 0.87 |
| 13 | 0.80 | 0.76 |
| 14 | 0.82 | 0.91 |
| 15 | 0.88 | 0.62 |
| 16 | 0.74 | 0.74 |
| 17 | 0.78 | 0.80 |
| 18 | 0.83 | 0.74 |
| 19 | 0.68 | 0.78 |
| 20 | 0.77 | 0.59 |
| 21 | 0.35 | 0.62 |
| 22 | 0.67 | 0.62 |
| 23 | 0.79 | 0.88 |
| 24 | 0.69 | 0.53 |
| 25 | 0.86 | 0.73 |
| Average | 0.76 | 0.69 |

Appendix C

Extended tables

In this chapter, I present extended tables with the results of the Fama-MacBeth cross-sectional regressions. Each table contains the estimations of the risk premia, the t-statistics in parentheses, and the coefficients of determination in the right-most column.

Section 1 contains the Fama-MacBeth, Shanken and Newey-West t-statistics for the two-tailed test of the null hypothesis, which for the first section is $\lambda_{\beta_{IND}} = 0$. To save space and time, for the rest of the sections, I only include the Newey-West t-statistics for the first section only. Nevertheless, the picture does not change. The Newey-West t-statistics that were used in the thesis were (far, in some cases) more conservative than the Fama-MacBeth and Shanken-adjusted. Last, the Newey-West for the SIC-based industry classifications are calculated with a lag of 5, and for the FIC-based classification with a lag of 4, because of the shorter length of the dataset.

The first section includes the tested specifications for testing Hypothesis 1, the second corresponds to Hypothesis 2, and the third section tests Hypothesis 3.

The first subsection corresponds to the SIC-49 dataset, the second to the SIC-10 and the third to the FIC-25.

The structure of each industry classification subsection is as follows:

1. CRSP database, Fama-MacBeth t-statistics, does **not** control for $\ln ME$ and $\ln BM$.
2. CRSP database, Shanken t-statistics, does **not** control for $\ln ME$ and $\ln BM$.
3. CRSP database, Newey-West t-statistics, does **not** control for $\ln ME$ and $\ln BM$.
4. Compustat database, Newey-West t-statistics, does **not** control for $\ln ME$ and $\ln BM$. This is used to compare the different datasets.
5. Compustat database, Newey-West t-statistics, **does** control for $\ln ME$ and $\ln BM$.

Each one of 1–5 includes both weighting-schemes, first including the value-weighted variables and second the equally-weighted.

1 Testing hypothesis 1, $\lambda_{\beta_{IND}} = 0$

1.1 SIC-49 industries

1.1.1 Fama-MacBeth t-statistics

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.896 (5.838)*** | -0.104 (-0.846) | | | | | | | | 1.595 (1.569) |
| 2 | 0.853 (5.556)*** | -0.073 (-0.609) | | | | | -0.966 (2.054)** | | | 1.896 (1.842) |
| 3 | 0.831 (5.514)*** | -0.074 (-0.616) | | | | | | -3.62 (3.024)*** | | 1.918 (1.865) |
| 4 | 0.845 (5.567)*** | -0.073 (-0.598) | | | | | | | -3.365 (2.713)*** | 1.911 (1.857) |
| 5 | 0.839 (5.634)*** | -0.099 (-0.848) | | | | | -0.87 (1.934)* | -3.265 (3.003)*** | | 2.225 (2.145) |
| 6 | 0.834 (5.498)*** | -0.091 (-0.792) | | | | | -0.942 (2.063)** | | -3.083 (2.544)** | 2.168 (2.088) |
| 7 | 0.841 (5.613)*** | -0.08 (-0.683) | | | | | | -3.627 (3.166)*** | -3.14 (2.624)*** | 2.251 (2.171) |
| 8 | 0.837 (5.593)*** | -0.1 (-0.894) | | | | | -0.887 (2.014)** | -3.271 (3.105)*** | -2.813 (2.436)** | 2.427 (2.321) |
| 9 | 0.827 (5.731)*** | -0.083 (-0.813) | -0.014 (-0.202) | 0.147 (2.107)** | | | | | | 2.753 (2.674) |
| 10 | 0.789 (5.508)*** | -0.042 (-0.406) | -0.007 (-0.106) | 0.142 (2.023)** | | | -0.876 (2.013)** | | | 2.965 (2.86) |
| 11 | 0.78 (5.429)*** | -0.042 (-0.406) | -0.002 (-0.03) | 0.15 (2.171)** | | | | -3.619 (3.1)*** | | 2.938 (2.832) |
| 12 | 0.782 (5.465)*** | -0.041 (-0.401) | -0.002 (-0.027) | 0.145 (2.051)** | | | | | -3.121 (2.652)*** | 2.969 (2.863) |
| 13 | 0.79 (5.496)*** | -0.049 (-0.485) | -0.005 (-0.076) | 0.143 (2.083)** | | | -0.823 (1.961)* | -3.31 (3.231)*** | | 3.11 (2.978) |
| 14 | 0.787 (5.486)*** | -0.052 (-0.514) | -0.005 (-0.07) | 0.148 (2.159)** | | | -0.901 (2.08)** | | -2.978 (2.6)*** | 3.133 (3.001) |
| 15 | 0.78 (5.435)*** | -0.044 (-0.437) | -0.001 (-0.01) | 0.142 (2.072)** | | | | -3.581 (3.22)*** | -2.946 (2.584)** | 3.127 (2.995) |
| 16 | 0.793 (5.514)*** | -0.061 (-0.615) | -0.004 (-0.06) | 0.144 (2.145)** | | | -0.826 (1.991)** | -3.197 (3.259)*** | -2.65 (2.437)** | 3.273 (3.115) |
| 17 | 0.811 (5.626)*** | -0.068 (-0.676) | -0.012 (-0.172) | 0.142 (2.099)** | -0.009 (-0.181) | 0.077 (1.703)* | | | | 3.098 (2.966) |
| 18 | 0.778 (5.429)*** | -0.034 (-0.329) | -0.003 (-0.045) | 0.142 (2.085)** | -0.019 (-0.377) | 0.073 (1.616) | -0.909 (2.076)** | | | 3.277 (3.119) |
| 19 | 0.767 (5.342)*** | -0.031 (-0.299) | -0.001 (-0.011) | 0.148 (2.207)** | -0.014 (-0.285) | 0.072 (1.629) | | -3.681 (3.13)*** | | 3.26 (3.102) |
| 20 | 0.771 (5.387)*** | -0.03 (-0.287) | -0.001 (-0.008) | 0.145 (2.112)** | -0.021 (-0.418) | 0.072 (1.599) | | | -3.174 (2.679)*** | 3.28 (3.122) |
| 21 | 0.781 (5.425)*** | -0.04 (-0.395) | -0.005 (-0.068) | 0.14 (2.098)** | -0.011 (-0.236) | 0.074 (1.699)* | -0.83 (1.968)** | -3.35 (3.25)*** | | 3.397 (3.212) |
| 22 | 0.777 (5.412)*** | -0.039 (-0.39) | -0.003 (-0.044) | 0.145 (2.169)** | -0.016 (-0.33) | 0.075 (1.685)* | -0.928 (2.133)** | | -3.068 (2.68)*** | 3.413 (3.229) |
| 23 | 0.773 (5.372)*** | -0.035 (-0.35) | -0.001 (-0.016) | 0.139 (2.102)** | -0.014 (-0.3) | 0.07 (1.608) | | -3.566 (3.224)*** | -2.926 (2.565)** | 3.419 (3.235) |
| 24 | 0.785 (5.44)*** | -0.049 (-0.5) | -0.005 (-0.074) | 0.14 (2.148)** | -0.01 (-0.213) | 0.076 (1.759)* | -0.837 (2.004)** | -3.245 (3.268)*** | -2.706 (2.483)** | 3.537 (3.327) |

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{\beta_{MKTEw}}$ | $\hat{\lambda}_{\beta_{FIRMEw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.896 (5.838)*** | -0.104 (-0.846) | | | | | | | | 1.595 (1.569) |
| 2 | 0.839 (5.482)*** | -0.05 (-0.415) | | | | | -0.925 (3.127)*** | | | 1.896 (1.842) |
| 3 | 0.834 (5.445)*** | -0.068 (-0.568) | | | | | | -2.438 (2.817)*** | | 1.873 (1.819) |
| 4 | 0.824 (5.424)*** | -0.031 (-0.252) | | | | | | | -15.257 (3.966)*** | 1.901 (1.848) |
| 5 | 0.851 (5.56)*** | -0.047 (-0.409) | | | | | -0.831 (3.159)*** | -2.382 (3.07)*** | | 2.224 (2.144) |
| 6 | 0.82 (5.385)*** | -0.037 (-0.316) | | | | | -0.883 (3.042)*** | | -14.955 (4.005)*** | 2.185 (2.105) |
| 7 | 0.833 (5.431)*** | -0.041 (-0.356) | | | | | | -2.392 (3.062)*** | -14.212 (4.364)*** | 2.214 (2.134) |
| 8 | 0.832 (5.447)*** | -0.038 (-0.335) | | | | | -0.803 (3.129)*** | -2.355 (3.111)*** | -13.427 (4.185)*** | 2.477 (2.371) |
| 9 | 0.827 (5.731)*** | -0.083 (-0.813) | -0.014 (-0.202) | 0.147 (2.107)** | | | | | | 2.753 (2.674) |
| 10 | 0.77 (5.422)*** | -0.033 (-0.324) | 0.004 (0.062) | 0.134 (1.902)* | | | -0.87 (3.166)*** | | | 2.956 (2.85) |
| 11 | 0.785 (5.469)*** | -0.043 (-0.422) | -0.004 (-0.052) | 0.146 (2.13)** | | | | -2.449 (3.023)*** | | 2.927 (2.821) |
| 12 | 0.761 (5.383)*** | -0.026 (-0.244) | 0.002 (0.022) | 0.138 (1.95)* | | | | | -15.096 (4.084)*** | 2.959 (2.853) |
| 13 | 0.779 (5.422)*** | -0.037 (-0.369) | 0.004 (0.052) | 0.133 (1.915)* | | | -0.791 (3.206)*** | -2.359 (3.344)*** | | 3.133 (3.001) |
| 14 | 0.764 (5.367)*** | -0.031 (-0.308) | 0.006 (0.091) | 0.133 (1.921)* | | | -0.81 (3.063)*** | | -14.268 (4.243)*** | 3.149 (3.018) |
| 15 | 0.773 (5.391)*** | -0.034 (-0.338) | 0.004 (0.049) | 0.137 (2.009)** | | | | -2.284 (3.158)*** | -13.481 (4.323)*** | 3.148 (3.016) |
| 16 | 0.772 (5.357)*** | -0.034 (-0.342) | 0.007 (0.098) | 0.131 (1.923)* | | | -0.735 (3.104)*** | -2.237 (3.269)*** | -12.905 (4.302)*** | 3.321 (3.163) |
| 17 | 0.811 (5.626)*** | -0.068 (-0.676) | -0.012 (-0.172) | 0.142 (2.099)** | -0.009 (-0.181) | 0.077 (1.703)* | | | | 3.098 (2.966) |
| 18 | 0.761 (5.341)*** | -0.024 (-0.232) | 0.004 (0.063) | 0.135 (1.984)** | -0.014 (-0.296) | 0.068 (1.495) | -0.874 (3.277)*** | | | 3.273 (3.115) |
| 19 | 0.772 (5.367)*** | -0.031 (-0.308) | -0.001 (-0.021) | 0.144 (2.146)** | -0.012 (-0.246) | 0.071 (1.584) | | -2.526 (3.102)*** | | 3.253 (3.094) |
| 20 | 0.751 (5.303)*** | -0.016 (-0.152) | 0.002 (0.028) | 0.138 (2.016)** | -0.017 (-0.349) | 0.067 (1.452) | | | -15.704 (4.203)*** | 3.278 (3.12) |
| 21 | 0.769 (5.331)*** | -0.028 (-0.28) | 0.004 (0.057) | 0.134 (1.983)** | -0.018 (-0.368) | 0.07 (1.541) | -0.812 (3.27)*** | -2.429 (3.435)*** | | 3.428 (3.244) |
| 22 | 0.756 (5.299)*** | -0.023 (-0.226) | 0.006 (0.088) | 0.135 (2.009)** | -0.015 (-0.312) | 0.069 (1.548) | -0.828 (3.186)*** | | -14.604 (4.398)*** | 3.444 (3.26) |
| 23 | 0.765 (5.327)*** | -0.026 (-0.255) | 0.004 (0.057) | 0.137 (2.058)** | -0.014 (-0.289) | 0.067 (1.497) | | -2.411 (3.313)*** | -13.948 (4.409)*** | 3.43 (3.246) |
| 24 | 0.765 (5.294)*** | -0.028 (-0.282) | 0.007 (0.098) | 0.134 (2.006)** | -0.019 (-0.388) | 0.07 (1.581) | -0.764 (3.197)*** | -2.363 (3.43)*** | -13.426 (4.402)*** | 3.589 (3.379) |

1.1.2 Shanken t-statistics

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.896 (5.838)*** | -0.104 (-0.825) | | | | | | | | 1.595 (1.569) |
| 2 | 0.853 (5.556)*** | -0.073 (-0.596) | | | | | -0.966 (2.041)** | | | 1.896 (1.842) |
| 3 | 0.831 (5.514)*** | -0.074 (-0.603) | | | | | | -3.62 (3.007)*** | | 1.918 (1.865) |
| 4 | 0.845 (5.567)*** | -0.073 (-0.585) | | | | | | | -3.365 (2.701)*** | 1.911 (1.857) |
| 5 | 0.839 (5.634)*** | -0.099 (-0.829) | | | | | -0.87 (1.923)* | -3.265 (2.989)*** | | 2.225 (2.145) |
| 6 | 0.834 (5.498)*** | -0.091 (-0.775) | | | | | -0.942 (2.05)** | | -3.083 (2.535)** | 2.168 (2.088) |
| 7 | 0.841 (5.613)*** | -0.08 (-0.669) | | | | | | -3.627 (3.148)*** | -3.14 (2.614)*** | 2.251 (2.171) |
| 8 | 0.837 (5.593)*** | -0.1 (-0.875) | | | | | -0.887 (2.003)** | -3.271 (3.09)*** | -2.813 (2.429)** | 2.427 (2.321) |
| 9 | 0.827 (5.731)*** | -0.083 (-0.797) | -0.014 (-0.195) | 0.147 (2.049)** | | | | | | 2.753 (2.674) |
| 10 | 0.789 (5.508)*** | -0.042 (-0.399) | -0.007 (-0.103) | 0.142 (1.974)** | | | -0.876 (2.003)** | | | 2.965 (2.86) |
| 11 | 0.78 (5.429)*** | -0.042 (-0.4) | -0.002 (-0.029) | 0.15 (2.12)** | | | | -3.619 (3.083)*** | | 2.938 (2.832) |
| 12 | 0.782 (5.465)*** | -0.041 (-0.395) | -0.002 (-0.026) | 0.145 (2.002)** | | | | | -3.121 (2.643)*** | 2.969 (2.863) |
| 13 | 0.79 (5.496)*** | -0.049 (-0.477) | -0.005 (-0.074) | 0.143 (2.031)** | | | -0.823 (1.951)* | -3.31 (3.216)*** | | 3.11 (2.978) |
| 14 | 0.787 (5.486)*** | -0.052 (-0.505) | -0.005 (-0.067) | 0.148 (2.107)** | | | -0.901 (2.069)** | | -2.978 (2.591)*** | 3.133 (3.001) |
| 15 | 0.78 (5.435)*** | -0.044 (-0.43) | -0.001 (-0.01) | 0.142 (2.022)** | | | | -3.581 (3.203)*** | -2.946 (2.576)** | 3.127 (2.995) |
| 16 | 0.793 (5.514)*** | -0.061 (-0.604) | -0.004 (-0.058) | 0.144 (2.092)** | | | -0.826 (1.981)** | -3.197 (3.244)*** | -2.65 (2.43)** | 3.273 (3.115) |
| 17 | 0.811 (5.626)*** | -0.068 (-0.663) | -0.012 (-0.166) | 0.142 (2.044)** | -0.009 (-0.169) | 0.077 (1.6) | | | | 3.098 (2.966) |
| 18 | 0.778 (5.429)*** | -0.034 (-0.324) | -0.003 (-0.044) | 0.142 (2.035)** | -0.019 (-0.353) | 0.073 (1.525) | -0.909 (2.065)** | | | 3.277 (3.119) |
| 19 | 0.767 (5.342)*** | -0.031 (-0.294) | -0.001 (-0.011) | 0.148 (2.157)** | -0.014 (-0.267) | 0.072 (1.539) | | -3.681 (3.113)*** | | 3.26 (3.102) |
| 20 | 0.771 (5.387)*** | -0.03 (-0.283) | -0.001 (-0.008) | 0.145 (2.063)** | -0.021 (-0.392) | 0.072 (1.51) | | | -3.174 (2.669)*** | 3.28 (3.122) |
| 21 | 0.781 (5.425)*** | -0.04 (-0.389) | -0.005 (-0.066) | 0.14 (2.047)** | -0.011 (-0.221) | 0.074 (1.603) | -0.83 (1.959)* | -3.35 (3.235)*** | | 3.397 (3.212) |
| 22 | 0.777 (5.412)*** | -0.039 (-0.383) | -0.003 (-0.043) | 0.145 (2.118)** | -0.016 (-0.309) | 0.075 (1.59) | -0.928 (2.121)** | | -3.068 (2.671)*** | 3.413 (3.229) |
| 23 | 0.773 (5.372)*** | -0.035 (-0.344) | -0.001 (-0.015) | 0.139 (2.052)** | -0.014 (-0.281) | 0.07 (1.518) | | -3.566 (3.207)*** | -2.926 (2.557)** | 3.419 (3.235) |
| 24 | 0.785 (5.44)*** | -0.049 (-0.491) | -0.005 (-0.072) | 0.14 (2.095)** | -0.01 (-0.199) | 0.076 (1.659)* | -0.837 (1.994)** | -3.245 (3.253)*** | -2.706 (2.475)** | 3.537 (3.327) |

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{\beta_{MKTew}}$ | $\hat{\lambda}_{\beta_{FIRMEw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.896 (5.838)*** | -0.104 (-0.825) | | | | | | | | 1.595 (1.569) |
| 2 | 0.839 (5.482)*** | -0.05 (-0.407) | | | | | -0.925 (3.092)*** | | | 1.896 (1.842) |
| 3 | 0.834 (5.445)*** | -0.068 (-0.556) | | | | | | -2.438 (2.804)*** | | 1.873 (1.819) |
| 4 | 0.824 (5.424)*** | -0.031 (-0.248) | | | | | | | -15.257 (3.957)*** | 1.901 (1.848) |
| 5 | 0.851 (5.56)*** | -0.047 (-0.401) | | | | | -0.831 (3.127)*** | -2.382 (3.056)*** | | 2.224 (2.144) |
| 6 | 0.82 (5.385)*** | -0.037 (-0.31) | | | | | -0.883 (3.011)*** | | -14.955 (3.996)*** | 2.185 (2.105) |
| 7 | 0.833 (5.431)*** | -0.041 (-0.35) | | | | | | -2.392 (3.049)*** | -14.212 (4.356)*** | 2.214 (2.134) |
| 8 | 0.832 (5.447)*** | -0.038 (-0.328) | | | | | -0.803 (3.099)*** | -2.355 (3.097)*** | -13.427 (4.178)*** | 2.477 (2.371) |
| 9 | 0.827 (5.731)*** | -0.083 (-0.797) | -0.014 (-0.195) | 0.147 (2.049)** | | | | | | 2.753 (2.674) |
| 10 | 0.77 (5.422)*** | -0.033 (-0.319) | 0.004 (0.06) | 0.134 (1.857)* | | | -0.87 (3.136)*** | | | 2.956 (2.85) |
| 11 | 0.785 (5.469)*** | -0.043 (-0.414) | -0.004 (-0.051) | 0.146 (2.078)** | | | | -2.449 (3.01)*** | | 2.927 (2.821) |
| 12 | 0.761 (5.383)*** | -0.026 (-0.24) | 0.002 (0.021) | 0.138 (1.905)* | | | | | -15.096 (4.075)*** | 2.959 (2.853) |
| 13 | 0.779 (5.422)*** | -0.037 (-0.363) | 0.004 (0.051) | 0.133 (1.868)* | | | -0.791 (3.178)*** | -2.359 (3.33)*** | | 3.133 (3.001) |
| 14 | 0.764 (5.367)*** | -0.031 (-0.303) | 0.006 (0.088) | 0.133 (1.876)* | | | -0.81 (3.036)*** | | -14.268 (4.236)*** | 3.149 (3.018) |
| 15 | 0.773 (5.391)*** | -0.034 (-0.333) | 0.004 (0.048) | 0.137 (1.961)* | | | | -2.284 (3.146)*** | -13.481 (4.316)*** | 3.148 (3.016) |
| 16 | 0.772 (5.357)*** | -0.034 (-0.337) | 0.007 (0.095) | 0.131 (1.876)* | | | -0.735 (3.079)*** | -2.237 (3.256)*** | -12.905 (4.295)*** | 3.321 (3.163) |
| 17 | 0.811 (5.626)*** | -0.068 (-0.663) | -0.012 (-0.166) | 0.142 (2.044)** | -0.009 (-0.169) | 0.077 (1.6) | | | | 3.098 (2.966) |
| 18 | 0.761 (5.341)*** | -0.024 (-0.228) | 0.004 (0.061) | 0.135 (1.938)* | -0.014 (-0.278) | 0.068 (1.414) | -0.874 (3.245)*** | | | 3.273 (3.115) |
| 19 | 0.772 (5.367)*** | -0.031 (-0.303) | -0.001 (-0.02) | 0.144 (2.096)** | -0.012 (-0.23) | 0.071 (1.496) | | -2.526 (3.088)*** | | 3.253 (3.094) |
| 20 | 0.751 (5.303)*** | -0.016 (-0.15) | 0.002 (0.028) | 0.138 (1.971)** | -0.017 (-0.328) | 0.067 (1.375) | | | -15.704 (4.194)*** | 3.278 (3.12) |
| 21 | 0.769 (5.331)*** | -0.028 (-0.276) | 0.004 (0.056) | 0.134 (1.936)* | -0.018 (-0.345) | 0.07 (1.455) | -0.812 (3.24)*** | -2.429 (3.42)*** | | 3.428 (3.244) |
| 22 | 0.756 (5.299)*** | -0.023 (-0.223) | 0.006 (0.086) | 0.135 (1.964)* | -0.015 (-0.293) | 0.069 (1.465) | -0.828 (3.157)*** | | -14.604 (4.389)*** | 3.444 (3.26) |
| 23 | 0.765 (5.327)*** | -0.026 (-0.251) | 0.004 (0.056) | 0.137 (2.01)** | -0.014 (-0.271) | 0.067 (1.415) | | -2.411 (3.299)*** | -13.948 (4.401)*** | 3.43 (3.246) |
| 24 | 0.765 (5.294)*** | -0.028 (-0.278) | 0.007 (0.096) | 0.134 (1.959)* | -0.019 (-0.364) | 0.07 (1.494) | -0.764 (3.17)*** | -2.363 (3.415)*** | -13.426 (4.395)*** | 3.589 (3.379) |

1.1.3 Newey-West t-statistics

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.896 (4.48)*** | -0.104 (-0.817) | | | | | | | | 1.595 (1.569) |
| 2 | 0.853 (4.197)*** | -0.073 (-0.558) | | | | | -0.966 (1.733)* | | | 1.896 (1.842) |
| 3 | 0.831 (4.168)*** | -0.074 (-0.569) | | | | | | -3.62 (1.977)** | | 1.918 (1.865) |
| 4 | 0.845 (4.185)*** | -0.073 (-0.553) | | | | | | | -3.365 (2.206)** | 1.911 (1.857) |
| 5 | 0.839 (4.24)*** | -0.099 (-0.79) | | | | | -0.87 (1.714)* | -3.265 (2.066)** | | 2.225 (2.145) |
| 6 | 0.834 (4.134)*** | -0.091 (-0.715) | | | | | -0.942 (1.739)* | | -3.083 (2.127)** | 2.168 (2.088) |
| 7 | 0.841 (4.233)*** | -0.08 (-0.628) | | | | | | -3.627 (2.1)** | -3.14 (2.204)** | 2.251 (2.171) |
| 8 | 0.837 (4.225)*** | -0.1 (-0.814) | | | | | -0.887 (1.742)* | -3.271 (2.046)** | -2.813 (2.103)** | 2.427 (2.321) |
| 9 | 0.827 (4.3)*** | -0.083 (-0.762) | -0.014 (-0.194) | 0.147 (2.34)** | | | | | | 2.753 (2.674) |
| 10 | 0.789 (4.068)*** | -0.042 (-0.372) | -0.007 (-0.102) | 0.142 (2.248)** | | | -0.876 (1.66)* | | | 2.965 (2.86) |
| 11 | 0.78 (4.008)*** | -0.042 (-0.372) | -0.002 (-0.029) | 0.15 (2.382)** | | | | -3.619 (1.987)** | | 2.938 (2.832) |
| 12 | 0.782 (4.038)*** | -0.041 (-0.366) | -0.002 (-0.026) | 0.145 (2.29)** | | | | | -3.121 (2.102)** | 2.969 (2.863) |
| 13 | 0.79 (4.073)*** | -0.049 (-0.452) | -0.005 (-0.073) | 0.143 (2.312)** | | | -0.823 (1.678)* | -3.31 (2.15)** | | 3.11 (2.978) |
| 14 | 0.787 (4.06)*** | -0.052 (-0.472) | -0.005 (-0.066) | 0.148 (2.352)** | | | -0.901 (1.721)* | | -2.978 (2.117)** | 3.133 (3.001) |
| 15 | 0.78 (4.032)*** | -0.044 (-0.4) | -0.001 (-0.01) | 0.142 (2.299)** | | | | -3.581 (2.087)** | -2.946 (2.108)** | 3.127 (2.995) |
| 16 | 0.793 (4.109)*** | -0.061 (-0.571) | -0.004 (-0.057) | 0.144 (2.356)** | | | -0.826 (1.713)* | -3.197 (2.123)** | -2.65 (2.085)** | 3.273 (3.115) |
| 17 | 0.811 (4.206)*** | -0.068 (-0.632) | -0.012 (-0.166) | 0.142 (2.318)** | -0.009 (-0.188) | 0.077 (1.802)* | | | | 3.098 (2.966) |
| 18 | 0.778 (4.004)*** | -0.034 (-0.3) | -0.003 (-0.043) | 0.142 (2.307)** | -0.019 (-0.397) | 0.073 (1.708)* | -0.909 (1.669)* | | | 3.277 (3.119) |
| 19 | 0.767 (3.94)*** | -0.031 (-0.272) | -0.001 (-0.011) | 0.148 (2.415)** | -0.014 (-0.293) | 0.072 (1.709)* | | -3.681 (1.985)** | | 3.26 (3.102) |
| 20 | 0.771 (3.968)*** | -0.03 (-0.259) | -0.001 (-0.008) | 0.145 (2.348)** | -0.021 (-0.44) | 0.072 (1.708)* | | | -3.174 (2.079)** | 3.28 (3.122) |
| 21 | 0.781 (4.017)*** | -0.04 (-0.366) | -0.005 (-0.066) | 0.14 (2.33)** | -0.011 (-0.25) | 0.074 (1.802)* | -0.83 (-1.641) | -3.35 (2.127)** | | 3.397 (3.212) |
| 22 | 0.777 (3.994)*** | -0.039 (-0.354) | -0.003 (-0.043) | 0.145 (2.366)** | -0.016 (-0.344) | 0.075 (1.769)* | -0.928 (1.718)* | | -3.068 (2.136)** | 3.413 (3.229) |
| 23 | 0.773 (3.985)*** | -0.035 (-0.318) | -0.001 (-0.015) | 0.139 (2.338)** | -0.014 (-0.315) | 0.07 (1.706)* | | -3.566 (2.061)** | -2.926 (2.052)** | 3.419 (3.235) |
| 24 | 0.785 (4.049)*** | -0.049 (-0.46) | -0.005 (-0.071) | 0.14 (2.371)** | -0.01 (-0.225) | 0.076 (1.863)* | -0.837 (1.668)* | -3.245 (2.084)** | -2.706 (2.064)** | 3.537 (3.327) |

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{\beta_{MKTEw}}$ | $\hat{\lambda}_{\beta_{FIRMEw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.896 (4.48)*** | -0.104 (-0.817) | | | | | | | | 1.595 (1.569) |
| 2 | 0.839 (4.172)*** | -0.05 (-0.387) | | | | | -0.925 (2.089)** | | | 1.896 (1.842) |
| 3 | 0.834 (4.14)*** | -0.068 (-0.527) | | | | | | -2.438 (1.908)* | | 1.873 (1.819) |
| 4 | 0.824 (4.111)*** | -0.031 (-0.24) | | | | | | | -15.257 (2.762)*** | 1.901 (1.848) |
| 5 | 0.851 (4.248)*** | -0.047 (-0.382) | | | | | -0.831 (2.121)** | -2.382 (2.07)** | | 2.224 (2.144) |
| 6 | 0.82 (4.078)*** | -0.037 (-0.292) | | | | | -0.883 (2.032)** | | -14.955 (2.651)*** | 2.185 (2.105) |
| 7 | 0.833 (4.133)*** | -0.041 (-0.335) | | | | | | -2.392 (2.078)** | -14.212 (3.01)*** | 2.214 (2.134) |
| 8 | 0.832 (4.149)*** | -0.038 (-0.31) | | | | | -0.803 (2.115)** | -2.355 (2.099)** | -13.427 (2.818)*** | 2.477 (2.371) |
| 9 | 0.827 (4.3)*** | -0.083 (-0.762) | -0.014 (-0.194) | 0.147 (2.34)** | | | | | | 2.753 (2.674) |
| 10 | 0.77 (4.021)*** | -0.033 (-0.299) | 0.004 (0.059) | 0.134 (2.113)** | | | -0.87 (2.109)** | | | 2.956 (2.85) |
| 11 | 0.785 (4.05)*** | -0.043 (-0.386) | -0.004 (-0.051) | 0.146 (2.341)** | | | | -2.449 (1.969)** | | 2.927 (2.821) |
| 12 | 0.761 (3.984)*** | -0.026 (-0.223) | 0.002 (0.021) | 0.138 (2.173)** | | | | | -15.096 (2.815)*** | 2.959 (2.853) |
| 13 | 0.779 (4.03)*** | -0.037 (-0.344) | 0.004 (0.05) | 0.133 (2.139)** | | | -0.791 (2.164)** | -2.359 (2.191)** | | 3.133 (3.001) |
| 14 | 0.764 (3.991)*** | -0.031 (-0.285) | 0.006 (0.087) | 0.133 (2.14)** | | | -0.81 (2.064)** | | -14.268 (2.862)*** | 3.149 (3.018) |
| 15 | 0.773 (3.989)*** | -0.034 (-0.316) | 0.004 (0.048) | 0.137 (2.233)** | | | | -2.284 (2.107)** | -13.481 (3.039)*** | 3.148 (3.016) |
| 16 | 0.772 (3.988)*** | -0.034 (-0.32) | 0.007 (0.095) | 0.131 (2.148)** | | | -0.735 (2.137)** | -2.237 (2.189)** | -12.905 (3)*** | 3.321 (3.163) |
| 17 | 0.811 (4.206)*** | -0.068 (-0.632) | -0.012 (-0.166) | 0.142 (2.318)** | -0.009 (-0.188) | 0.077 (1.802)* | | | | 3.098 (2.966) |
| 18 | 0.761 (3.959)*** | -0.024 (-0.214) | 0.004 (0.061) | 0.135 (2.204)** | -0.014 (-0.313) | 0.068 (1.599) | -0.874 (2.17)** | | | 3.273 (3.115) |
| 19 | 0.772 (3.965)*** | -0.031 (-0.281) | -0.001 (-0.02) | 0.144 (2.358)** | -0.012 (-0.251) | 0.071 (1.668)* | | -2.526 (1.978)** | | 3.253 (3.094) |
| 20 | 0.751 (3.921)*** | -0.016 (-0.139) | 0.002 (0.028) | 0.138 (2.243)** | -0.017 (-0.36) | 0.067 (1.558) | | | -15.704 (2.829)*** | 3.278 (3.12) |
| 21 | 0.769 (3.956)*** | -0.028 (-0.259) | 0.004 (0.055) | 0.134 (2.221)** | -0.018 (-0.392) | 0.07 (1.647) | -0.812 (2.181)** | -2.429 (2.211)** | | 3.428 (3.244) |
| 22 | 0.756 (3.955)*** | -0.023 (-0.209) | 0.006 (0.085) | 0.135 (2.244)** | -0.015 (-0.333) | 0.069 (1.646) | -0.828 (2.119)** | | -14.604 (2.931)*** | 3.444 (3.26) |
| 23 | 0.765 (3.946)*** | -0.026 (-0.238) | 0.004 (0.056) | 0.137 (2.295)** | -0.014 (-0.301) | 0.067 (1.592) | | -2.411 (2.177)** | -13.948 (3.066)*** | 3.43 (3.246) |
| 24 | 0.765 (3.951)*** | -0.028 (-0.263) | 0.007 (0.095) | 0.134 (2.256)** | -0.019 (-0.418) | 0.07 (1.679)* | -0.764 (2.165)** | -2.363 (2.252)** | -13.426 (3.028)*** | 3.589 (3.379) |

1.1.4 Newey-West t-statistics, dataset is same as controls

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.865 (4.545)*** | -0.049 (-0.387) | | | | | | | | 1.596 (1.557) |
| 2 | 0.828 (4.256)*** | -0.025 (-0.194) | | | | | -0.861 (1.725)* | | | 1.922 (1.843) |
| 3 | 0.807 (4.243)*** | -0.027 (-0.215) | | | | | | -3.159 (2.215)** | | 1.922 (1.843) |
| 4 | 0.815 (4.213)*** | -0.017 (-0.13) | | | | | | | -3.228 (2.373)** | 1.951 (1.872) |
| 5 | 0.82 (4.331)*** | -0.048 (-0.398) | | | | | -0.733 (1.719)* | -2.834 (2.174)** | | 2.254 (2.136) |
| 6 | 0.809 (4.184)*** | -0.037 (-0.288) | | | | | -0.892 (1.783)* | | -3.115 (2.315)** | 2.247 (2.129) |
| 7 | 0.838 (4.417)*** | -0.045 (-0.369) | | | | | | -2.557 (2.277)** | -2.387 (2.291)** | 2.274 (2.157) |
| 8 | 0.835 (4.416)*** | -0.063 (-0.528) | | | | | -0.634 (1.652)* | -2.48 (2.212)** | -2.305 (2.225)** | 2.506 (2.349) |
| 9 | 0.801 (4.346)*** | -0.045 (-0.418) | 0.021 (0.283) | 0.153 (2.57)** | | | | | | 2.88 (2.764) |
| 10 | 0.769 (4.114)*** | -0.011 (-0.102) | 0.03 (0.416) | 0.148 (2.454)** | | | -0.808 (1.774)* | | | 3.116 (2.961) |
| 11 | 0.775 (4.162)*** | -0.026 (-0.243) | 0.032 (0.44) | 0.156 (2.624)*** | | | | -2.941 (2.106)** | | 3.085 (2.93) |
| 12 | 0.761 (4.086)*** | -0.01 (-0.094) | 0.038 (0.512) | 0.149 (2.461)** | | | | | -3.068 (2.346)** | 3.127 (2.972) |
| 13 | 0.779 (4.181)*** | -0.026 (-0.245) | 0.031 (0.423) | 0.153 (2.547)** | | | -0.736 (1.704)* | -2.864 (2.062)** | | 3.274 (3.081) |
| 14 | 0.768 (4.114)*** | -0.023 (-0.211) | 0.035 (0.472) | 0.153 (2.512)** | | | -0.856 (1.867)* | | -2.969 (2.358)** | 3.322 (3.129) |
| 15 | 0.79 (4.266)*** | -0.038 (-0.358) | 0.033 (0.455) | 0.145 (2.465)** | | | | -2.596 (2.033)** | -2.409 (2.186)** | 3.293 (3.1) |
| 16 | 0.791 (4.269)*** | -0.046 (-0.443) | 0.032 (0.438) | 0.151 (2.545)** | | | -0.696 (1.688)* | -2.648 (2.036)** | -2.42 (2.169)** | 3.472 (3.241) |
| 17 | 0.792 (4.279)*** | -0.039 (-0.365) | 0.022 (0.309) | 0.151 (2.587)** | -0.009 (-0.2) | 0.067 (1.578) | | | | 3.29 (3.097) |
| 18 | 0.765 (4.071)*** | -0.011 (-0.099) | 0.033 (0.47) | 0.148 (2.51)** | -0.015 (-0.331) | 0.061 (1.417) | -0.859 (1.837)* | | | 3.486 (3.254) |
| 19 | 0.768 (4.097)*** | -0.02 (-0.19) | 0.032 (0.447) | 0.154 (2.653)*** | -0.01 (-0.237) | 0.066 (1.554) | | -3.067 (2.068)** | | 3.463 (3.231) |
| 20 | 0.76 (4.059)*** | -0.01 (-0.091) | 0.036 (0.502) | 0.15 (2.532)** | -0.017 (-0.373) | 0.063 (1.471) | | | -3.07 (2.333)** | 3.496 (3.265) |
| 21 | 0.773 (4.121)*** | -0.022 (-0.203) | 0.032 (0.454) | 0.149 (2.561)** | -0.011 (-0.254) | 0.067 (1.598) | -0.791 (1.743)* | -2.974 (2.064)** | | 3.622 (3.352) |
| 22 | 0.766 (4.073)*** | -0.019 (-0.174) | 0.035 (0.489) | 0.151 (2.549)** | -0.015 (-0.343) | 0.062 (1.442) | -0.885 (1.86)* | | -3.009 (2.341)** | 3.662 (3.392) |
| 23 | 0.782 (4.198)*** | -0.031 (-0.288) | 0.032 (0.451) | 0.146 (2.526)** | -0.011 (-0.259) | 0.067 (1.612) | | -2.746 (1.987)** | -2.503 (2.14)** | 3.647 (3.377) |
| 24 | 0.787 (4.209)*** | -0.039 (-0.37) | 0.03 (0.424) | 0.148 (2.559)** | -0.01 (-0.244) | 0.069 (1.644) | -0.745 (1.652)* | -2.713 (1.953)* | -2.506 (2.111)** | 3.798 (3.49) |

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{\beta_{MKTew}}$ | $\hat{\lambda}_{\beta_{FIRMEw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.865 (4.545)*** | -0.049 (-0.387) | | | | | | | | 1.596 (1.557) |
| 2 | 0.824 (4.285)*** | -0.012 (-0.097) | | | | | -0.755 (2.135)** | | | 1.933 (1.854) |
| 3 | 0.821 (4.266)*** | -0.032 (-0.26) | | | | | | -1.996 (2.034)** | | 1.881 (1.802) |
| 4 | 0.804 (4.196)*** | 0.017 (0.13) | | | | | | | -13.487 (2.657)*** | 1.937 (1.858) |
| 5 | 0.818 (4.287)*** | -0.002 (-0.018) | | | | | -0.657 (2.223)** | -2.013 (2.316)** | | 2.258 (2.141) |
| 6 | 0.802 (4.162)*** | 0.004 (0.033) | | | | | -0.717 (2.01)** | | -12.464 (2.621)*** | 2.274 (2.156) |
| 7 | 0.824 (4.286)*** | -0.003 (-0.026) | | | | | | -1.86 (2.165)** | -10.721 (2.883)*** | 2.238 (2.12) |
| 8 | 0.805 (4.217)*** | 0.006 (0.049) | | | | | -0.602 (2.054)** | -1.844 (2.165)** | -10.538 (2.742)*** | 2.563 (2.406) |
| 9 | 0.801 (4.346)*** | -0.045 (-0.418) | 0.021 (0.283) | 0.153 (2.57)** | | | | | | 2.88 (2.764) |
| 10 | 0.762 (4.142)*** | -0.013 (-0.118) | 0.037 (0.497) | 0.145 (2.401)** | | | -0.751 (2.153)** | | | 3.097 (2.942) |
| 11 | 0.784 (4.237)*** | -0.033 (-0.313) | 0.031 (0.421) | 0.151 (2.561)** | | | | -1.885 (2.123)** | | 3.073 (2.918) |
| 12 | 0.741 (4.049)*** | 0.008 (0.067) | 0.039 (0.525) | 0.148 (2.462)** | | | | | -13.362 (2.796)*** | 3.105 (2.95) |
| 13 | 0.772 (4.178)*** | -0.021 (-0.203) | 0.038 (0.516) | 0.141 (2.387)** | | | -0.621 (2.269)** | -1.829 (2.296)** | | 3.3 (3.106) |
| 14 | 0.746 (4.046)*** | 0.002 (0.019) | 0.039 (0.526) | 0.145 (2.442)** | | | -0.693 (2.05)** | | -12.431 (2.835)*** | 3.321 (3.128) |
| 15 | 0.766 (4.13)*** | -0.015 (-0.146) | 0.04 (0.538) | 0.145 (2.485)** | | | | -1.683 (2.138)** | -10.398 (3.099)*** | 3.303 (3.109) |
| 16 | 0.76 (4.097)*** | -0.01 (-0.095) | 0.039 (0.539) | 0.14 (2.393)** | | | -0.553 (2.087)** | -1.658 (2.165)** | -10.304 (3.026)*** | 3.512 (3.28) |
| 17 | 0.792 (4.279)*** | -0.039 (-0.365) | 0.022 (0.309) | 0.151 (2.587)** | -0.009 (-0.2) | 0.067 (1.578) | | | | 3.29 (3.097) |
| 18 | 0.765 (4.12)*** | -0.013 (-0.122) | 0.032 (0.451) | 0.144 (2.451)** | -0.01 (-0.238) | 0.059 (1.377) | -0.757 (2.218)** | | | 3.48 (3.249) |
| 19 | 0.778 (4.167)*** | -0.027 (-0.263) | 0.03 (0.432) | 0.148 (2.573)** | -0.009 (-0.219) | 0.063 (1.491) | | -1.975 (2.148)** | | 3.458 (3.226) |
| 20 | 0.739 (4.014)*** | 0.007 (0.06) | 0.039 (0.552) | 0.147 (2.517)** | -0.017 (-0.379) | 0.06 (1.388) | | | -13.713 (2.849)*** | 3.483 (3.251) |
| 21 | 0.771 (4.127)*** | -0.018 (-0.175) | 0.034 (0.479) | 0.138 (2.402)** | 0.034 (-0.277) | 0.06 (1.408) | -0.635 (2.294)** | -1.891 (2.331)** | | 3.652 (3.382) |
| 22 | 0.747 (4.03)*** | 0.001 (0.005) | 0.035 (0.497) | 0.146 (2.556)** | -0.015 (-0.348) | 0.062 (1.47) | -0.709 (2.073)** | | -12.621 (2.859)*** | 3.671 (3.401) |
| 23 | 0.759 (4.083)*** | -0.012 (-0.12) | 0.042 (0.591) | 0.142 (2.512)** | -0.013 (-0.311) | 0.059 (1.387) | | -1.809 (2.259)** | -10.871 (3.195)*** | 3.642 (3.372) |
| 24 | 0.758 (4.066)*** | -0.011 (-0.109) | 0.038 (0.535) | 0.14 (2.482)** | -0.015 (-0.349) | 0.061 (1.45) | -0.569 (2.102)** | -1.744 (2.241)** | -10.533 (3.056)*** | 3.829 (3.522) |

1.1.5 Newey-West t-statistics, controls

| dept | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | $\hat{\lambda}_{\ln.BM}$ | $\hat{\lambda}_{\ln.ME}$ | R^2, \bar{R}^2 (in %) | # | $\hat{\lambda}_{intercept}$ |
|------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|--------------------------|--------------------------|-------------------------|----|-----------------------------|
| | -0.049 | | | | | | | | | | 1.596 | 1 | 0.865 |
| *** | (-0.387) | | | | | | | | | | (1.557) | | (4.545)** |
| | -0.019 | | | | | -0.816 | | | | -0.105 | 3.086 | 2 | 1.305 |
| *** | (-0.15) | | | | | (-1.64) | | | | (2.671)*** | (2.969) | | (3.996)** |
| | 0.037 | | | | | -0.904 | | | 0.354 | | 2.431 | 3 | 0.856 |
| *** | (0.297) | | | | | (1.777)* | | | (5.437)*** | | (2.314) | | (4.371)** |
| | 0.04 | | | | | -0.88 | | | 0.274 | -0.071 | 3.525 | 4 | 1.182 |
| *** | (0.337) | | | | | (1.745)* | | | (3.896)*** | (1.691)* | (3.37) | | (3.606)** |
| | 0.031 | | | | | | -2.877 | | 0.266 | -0.069 | 3.47 | 5 | 1.157 |
| ** | (0.269) | | | | | | (2.053)** | | (3.818)*** | (1.669)* | (3.315) | | (3.568)** |
| | 0.046 | | | | | | | -2.869 | 0.274 | -0.069 | 3.547 | 6 | 1.18 |
| *** | (0.384) | | | | | | | (2.107)** | (3.898)*** | (1.661)* | (3.392) | | (3.608)** |
| | 0.029 | | | | | -0.743 | -2.628 | | 0.275 | -0.071 | 3.699 | 7 | 1.208 |
| ** | (0.26) | | | | | (1.715)* | (2.039)** | | (3.925)*** | (1.745)* | (3.506) | | (3.777)** |
| | 0.033 | | | | | -0.868 | | -2.815 | 0.272 | -0.064 | 3.753 | 8 | 1.165 |
| *** | (0.275) | | | | | (1.717)* | | (2.081)** | (3.855)*** | (-1.53) | (3.561) | | (3.566)** |
| | 0.021 | | | | | | -2.336 | -2.114 | 0.273 | -0.073 | 3.726 | 9 | 1.223 |
| *** | (0.192) | | | | | | (2.113)** | (2.014)** | (3.871)*** | (1.785)* | (3.533) | | (3.795)** |
| | 0.01 | | | | | -0.618 | -2.237 | -2.058 | 0.273 | -0.068 | 3.912 | 10 | 1.206 |
| *** | (0.086) | | | | | (-1.58) | (2.043)** | (1.968)** | (3.865)*** | (1.673)* | (3.681) | | (3.769)** |
| | -0.045 | 0.021 | 0.153 | | | | | | | | 2.88 | 11 | 0.801 |
| *** | (-0.418) | (0.283) | (2.57)** | | | | | | | | (2.764) | | (4.346)** |
| | 0.035 | -0.047 | 0.133 | | | -0.759 | | | | -0.114 | 3.831 | 12 | 1.29 |
| ** | (0.314) | (-0.768) | (2.203)** | | | (-1.646) | | | | (3.26)*** | (3.639) | | (4.315)** |
| | 0.034 | 0.025 | 0.073 | | | -0.823 | | | 0.309 | | 3.483 | 13 | 0.817 |
| *** | (0.323) | (0.348) | (1.316) | | | (1.769)* | | | (5.093)*** | | (3.29) | | (4.3)*** |
| | 0.064 | -0.021 | 0.072 | | | -0.799 | | | 0.239 | -0.081 | 4.16 | 14 | 1.173 |
| *** | (0.595) | (-0.362) | (1.331) | | | (1.709)* | | | (3.734)*** | (2.233)** | (3.93) | | (3.923)** |
| | 0.051 | -0.02 | 0.079 | | | | -2.773 | | 0.234 | -0.081 | 4.124 | 15 | 1.204 |
| *** | (0.484) | (-0.341) | (1.485) | | | | (2.001)** | | (3.687)*** | (2.219)** | (3.894) | | (4.028)** |
| | 0.067 | -0.016 | 0.073 | | | | | -2.756 | 0.24 | -0.081 | 4.172 | 16 | 1.164 |
| *** | (0.617) | (-0.28) | (1.337) | | | | | (2.078)** | (3.752)*** | (2.21)** | (3.942) | | (3.893)** |
| | 0.054 | -0.023 | 0.072 | | | -0.73 | -2.718 | | 0.245 | -0.082 | 4.303 | 17 | 1.194 |
| *** | (0.508) | (-0.389) | (1.344) | | | (-1.643) | (1.958)* | | (3.835)*** | (2.259)** | (4.035) | | (3.993)** |
| | 0.053 | -0.018 | 0.074 | | | -0.818 | | -2.686 | 0.239 | -0.079 | 4.348 | 18 | 1.17 |
| *** | (0.499) | (-0.308) | (1.37) | | | (1.757)* | | (2.116)** | (3.736)*** | (2.188)** | (4.08) | | (3.909)** |
| | 0.042 | -0.022 | 0.068 | | | | -2.475 | -2.138 | 0.247 | -0.08 | 4.322 | 19 | 1.21 |
| *** | (0.398) | (-0.38) | (1.288) | | | | (1.937)* | (1.903)* | (3.838)*** | (2.226)** | (4.054) | | (4.043)** |
| | 0.032 | -0.022 | 0.07 | | | -0.668 | -2.479 | -2.168 | 0.246 | -0.079 | 4.486 | 20 | 1.202 |
| *** | (0.31) | (-0.382) | (1.33) | | | (-1.583) | (1.924)* | (1.922)* | (3.842)*** | (2.187)** | (4.181) | | (4.004)** |
| | -0.039 | 0.022 | 0.151 | -0.009 | 0.067 | | | | | | 3.29 | 21 | 0.792 |
| *** | (-0.365) | (0.309) | (2.587)** | (-0.2) | (1.578) | | | | | | (3.097) | | (4.279)** |
| | 0.038 | -0.046 | 0.128 | 0.009 | 0.05 | -0.791 | | | | -0.114 | 4.175 | 22 | 1.306 |
| *** | (0.346) | (-0.78) | (2.171)** | (0.221) | (1.151) | (1.679)* | | | | (3.32)*** | (3.906) | | (4.341)** |
| | 0.035 | 0.027 | 0.072 | 0 | 0.022 | -0.86 | | | 0.311 | | 3.842 | 23 | 0.825 |
| *** | (0.331) | (0.384) | (1.329) | (0) | (0.544) | (1.8)* | | | (5.168)*** | | (3.573) | | (4.313)** |
| | 0.067 | -0.019 | 0.066 | 0.014 | 0.019 | -0.826 | | | 0.242 | -0.082 | 4.497 | 24 | 1.192 |
| ** | (0.631) | (-0.346) | (1.26) | (0.335) | (0.477) | (1.729)* | | | (3.772)*** | (2.269)** | (4.192) | | (3.951)** |
| | 0.059 | -0.021 | 0.072 | 0.017 | 0.023 | | -2.876 | | 0.237 | -0.082 | 4.468 | 25 | 1.208 |
| *** | (0.557) | (-0.367) | (1.398) | (0.438) | (0.57) | | (1.956)* | | (3.736)*** | (2.261)** | (4.162) | | (4.009)** |
| | 0.07 | -0.018 | 0.068 | 0.013 | 0.02 | | | -2.767 | 0.243 | -0.082 | 4.507 | 26 | 1.176 |
| *** | (0.648) | (-0.324) | (1.278) | (0.33) | (0.498) | | | (2.079)** | (3.786)*** | (2.255)** | (4.202) | | (3.912)** |
| | 0.059 | -0.022 | 0.065 | 0.017 | 0.023 | -0.767 | -2.809 | | 0.247 | -0.084 | 4.626 | 27 | 1.203 |
| *** | (0.56) | (-0.403) | (1.252) | (0.435) | (0.581) | (1.649)* | (1.957)* | | (3.862)*** | (2.324)** | (4.283) | | (3.976)** |
| | 0.058 | -0.016 | 0.068 | 0.015 | 0.018 | -0.844 | | -2.726 | 0.243 | -0.08 | 4.663 | 28 | 1.184 |
| ** | (0.549) | (-0.291) | (1.29) | (0.369) | (0.45) | (1.75)* | | (2.106)** | (3.786)*** | (2.232)** | (4.32) | | (3.935)** |
| | 0.049 | -0.023 | 0.063 | 0.018 | 0.024 | | -2.608 | -2.249 | 0.247 | -0.082 | 4.647 | 29 | 1.21 |
| *** | (0.47) | (-0.408) | (1.229) | (0.469) | (0.618) | | (1.891)* | (1.894)* | (3.85)*** | (2.287)** | (4.304) | | (4.025)** |
| | 0.039 | -0.022 | 0.063 | 0.018 | 0.023 | -0.716 | -2.539 | -2.26 | 0.248 | -0.081 | 4.792 | 30 | 1.205 |
| *** | (0.378) | (-0.403) | (1.236) | (0.473) | (0.577) | (-1.559) | (1.845)* | (1.887)* | (3.865)*** | (2.268)** | (4.411) | | (3.991)** |

1.2 SIC-10 divisions

1.2.1 Fama-MacBeth t-statistics

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.905 (5.901)*** | -0.111 (-0.908) | | | | | | | | 1.604 (1.577) |
| 2 | 0.866 (5.669)*** | -0.078 (-0.643) | | | | | -0.441 (2.073)** | | | 1.914 (1.86) |
| 3 | 0.841 (5.579)*** | -0.082 (-0.68) | | | | | | -3.575 (2.983)*** | | 1.929 (1.875) |
| 4 | 0.856 (5.631)*** | -0.081 (-0.662) | | | | | | | -3.84 (2.56)** | 1.914 (1.861) |
| 5 | 0.843 (5.648)*** | -0.091 (-0.78) | | | | | -0.402 (1.992)** | -3.351 (3.03)*** | | 2.27 (2.19) |
| 6 | 0.851 (5.605)*** | -0.084 (-0.712) | | | | | -0.399 (1.975)** | | -3.518 (2.44)** | 2.176 (2.096) |
| 7 | 0.852 (5.705)*** | -0.093 (-0.795) | | | | | | -3.481 (3.063)*** | -3.556 (2.469)** | 2.262 (2.181) |
| 8 | 0.843 (5.648)*** | -0.091 (-0.801) | | | | | -0.375 (1.954)* | -3.235 (3.083)*** | -3.229 (2.356)** | 2.48 (2.373) |
| 9 | 0.837 (5.801)*** | -0.09 (-0.883) | -0.017 (-0.239) | 0.146 (2.094)** | | | | | | 2.765 (2.685) |
| 10 | 0.798 (5.567)*** | -0.049 (-0.478) | -0.007 (-0.099) | 0.136 (1.946)* | | | -0.398 (2.089)** | | | 2.98 (2.873) |
| 11 | 0.79 (5.503)*** | -0.049 (-0.481) | -0.005 (-0.069) | 0.149 (2.16)** | | | | -3.527 (3.019)*** | | 2.951 (2.844) |
| 12 | 0.794 (5.546)*** | -0.049 (-0.473) | -0.006 (-0.08) | 0.144 (2.027)** | | | | | -3.491 (2.466)** | 2.979 (2.873) |
| 13 | 0.792 (5.513)*** | -0.05 (-0.5) | -0.006 (-0.084) | 0.14 (2.05)** | | | -0.371 (2.034)** | -3.245 (3.217)*** | | 3.12 (2.987) |
| 14 | 0.795 (5.54)*** | -0.051 (-0.505) | -0.002 (-0.032) | 0.141 (2.005)** | -0.006 (-0.133) | 0.075 (1.665)* | -0.348 (1.993)** | | -3.129 (2.409)** | 3.145 (3.013) |
| 15 | 0.793 (5.527)*** | -0.053 (-0.525) | -0.005 (-0.068) | 0.141 (2.058)** | | | | -3.422 (3.104)*** | -3.295 (2.406)** | 3.139 (3.006) |
| 16 | 0.796 (5.543)*** | -0.056 (-0.564) | -0.004 (-0.062) | 0.138 (2.026)** | | | -0.329 (1.963)* | -3.005 (3.269)*** | -2.892 (2.326)** | 3.28 (3.121) |
| 17 | 0.819 (5.691)*** | -0.075 (-0.736) | -0.014 (-0.204) | 0.141 (2.079)** | -0.006 (-0.133) | 0.075 (1.665)* | | | | 3.112 (2.98) |
| 18 | 0.789 (5.505)*** | -0.042 (-0.41) | -0.005 (-0.074) | 0.136 (1.991)** | -0.014 (-0.296) | 0.068 (1.514) | -0.411 (2.123)** | | | 3.298 (3.14) |
| 19 | 0.777 (5.41)*** | -0.037 (-0.363) | -0.003 (-0.049) | 0.147 (2.189)** | -0.012 (-0.245) | 0.07 (1.593) | | -3.589 (3.047)*** | | 3.276 (3.117) |
| 20 | 0.781 (5.463)*** | -0.037 (-0.36) | -0.003 (-0.048) | 0.143 (2.083)** | -0.018 (-0.363) | 0.07 (1.557) | | | -3.553 (2.494)** | 3.294 (3.135) |
| 21 | 0.786 (5.46)*** | -0.045 (-0.446) | -0.004 (-0.063) | 0.137 (2.071)** | -0.008 (-0.179) | 0.068 (1.551) | -0.382 (2.064)** | -3.298 (3.234)*** | | 3.417 (3.232) |
| 22 | 0.784 (5.464)*** | -0.04 (-0.398) | -0.001 (-0.011) | 0.139 (2.031)** | -0.013 (-0.255) | 0.068 (1.499) | -0.368 (2.061)** | | -3.226 (2.464)** | 3.432 (3.247) |
| 23 | 0.785 (5.459)*** | -0.044 (-0.435) | -0.004 (-0.062) | 0.138 (2.07)** | -0.011 (-0.239) | 0.069 (1.591) | | -3.408 (3.114)*** | -3.26 (2.381)** | 3.434 (3.249) |
| 24 | 0.789 (5.474)*** | -0.049 (-0.494) | -0.003 (-0.04) | 0.135 (2.04)** | -0.007 (-0.144) | 0.067 (1.539) | -0.343 (2.001)** | -3.055 (3.256)*** | -2.924 (2.33)** | 3.554 (3.342) |

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{\beta_{MKTEw}}$ | $\hat{\lambda}_{\beta_{FIRMEw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.905 (5.901)*** | -0.111 (-0.908) | | | | | | | | 1.604 (1.577) |
| 2 | 0.883 (5.761)*** | -0.088 (-0.73) | | | | | -3.668 (2.736)*** | | | 1.871 (1.817) |
| 3 | 0.844 (5.509)*** | -0.076 (-0.63) | | | | | | -2.385 (2.748)*** | | 1.881 (1.827) |
| 4 | 0.839 (5.556)*** | -0.057 (-0.46) | | | | | | | -16.537 (3.948)*** | 1.883 (1.829) |
| 5 | 0.846 (5.525)*** | -0.073 (-0.624) | | | | | -3.663 (3.027)*** | -2.332 (2.792)*** | | 2.11 (2.03) |
| 6 | 0.834 (5.501)*** | -0.045 (-0.371) | | | | | -3.725 (2.853)*** | | -16.838 (3.969)*** | 2.134 (2.053) |
| 7 | 0.835 (5.467)*** | -0.052 (-0.438) | | | | | | -2.356 (2.768)*** | -16.057 (4.172)*** | 2.147 (2.066) |
| 8 | 0.833 (5.434)*** | -0.045 (-0.389) | | | | | -3.649 (2.982)*** | -2.361 (2.792)*** | -15.875 (4.052)*** | 2.35 (2.243) |
| 9 | 0.837 (5.801)*** | -0.09 (-0.883) | -0.017 (-0.239) | 0.146 (2.094)** | | | | | | 2.765 (2.685) |
| 10 | 0.821 (5.721)*** | -0.078 (-0.75) | -0.014 (-0.193) | 0.142 (2.026)** | | | -3.567 (2.663)*** | | | 2.915 (2.809) |
| 11 | 0.795 (5.542)*** | -0.05 (-0.494) | -0.006 (-0.09) | 0.145 (2.117)** | | | | -2.368 (2.915)*** | | 2.939 (2.833) |
| 12 | 0.78 (5.511)*** | -0.042 (-0.397) | -0.009 (-0.132) | 0.138 (1.961)* | | | | | -17.182 (4.078)*** | 2.983 (2.877) |
| 13 | 0.797 (5.564)*** | -0.056 (-0.552) | -0.007 (-0.098) | 0.143 (2.088)** | | | -3.392 (2.899)*** | -2.324 (2.985)*** | | 3.078 (2.945) |
| 14 | 0.776 (5.478)*** | -0.042 (-0.396) | -0.007 (-0.095) | 0.134 (1.907)* | | | -3.508 (2.702)*** | | -16.866 (3.982)*** | 3.104 (2.971) |
| 15 | 0.778 (5.442)*** | -0.039 (-0.382) | -0.006 (-0.077) | 0.139 (2.021)** | -0.006 (-0.133) | 0.075 (1.665)* | | -2.28 (2.914)*** | -16.168 (4.327)*** | 3.161 (3.028) |
| 16 | 0.775 (5.413)*** | -0.039 (-0.381) | -0.004 (-0.06) | 0.135 (1.955)* | | | -3.415 (2.873)*** | -2.312 (2.859)*** | -15.954 (4.14)*** | 3.271 (3.112) |
| 17 | 0.819 (5.691)*** | -0.075 (-0.736) | -0.014 (-0.204) | 0.141 (2.079)** | -0.006 (-0.133) | 0.075 (1.665)* | | | | 3.112 (2.98) |
| 18 | 0.807 (5.626)*** | -0.064 (-0.618) | -0.014 (-0.203) | 0.14 (2.066)** | -0.01 (-0.213) | 0.074 (1.649)* | -3.712 (2.659)*** | | | 3.261 (3.102) |
| 19 | 0.781 (5.433)*** | -0.037 (-0.367) | -0.004 (-0.058) | 0.143 (2.128)** | -0.01 (-0.206) | 0.069 (1.547) | | -2.445 (2.991)*** | | 3.268 (3.109) |
| 20 | 0.767 (5.416)*** | -0.03 (-0.288) | -0.008 (-0.113) | 0.137 (2)** | -0.009 (-0.183) | 0.065 (1.421) | | | -18.051 (4.184)*** | 3.301 (3.142) |
| 21 | 0.785 (5.468)*** | -0.044 (-0.436) | -0.007 (-0.107) | 0.142 (2.123)** | -0.01 (-0.201) | 0.07 (1.587) | -3.393 (2.813)*** | -2.418 (3.069)*** | | 3.401 (3.215) |
| 22 | 0.768 (5.417)*** | -0.032 (-0.309) | -0.01 (-0.138) | 0.133 (1.944)* | -0.008 (-0.168) | 0.066 (1.45) | -3.565 (2.693)*** | | -17.439 (4.071)*** | 3.425 (3.24) |
| 23 | 0.767 (5.359)*** | -0.029 (-0.28) | -0.004 (-0.064) | 0.138 (2.054)** | -0.007 (-0.151) | 0.066 (1.455) | | -2.397 (3.031)*** | -16.84 (4.446)*** | 3.453 (3.268) |
| 24 | 0.768 (5.355)*** | -0.03 (-0.291) | -0.007 (-0.107) | 0.136 (2.012)** | -0.008 (-0.159) | 0.065 (1.454) | -3.482 (2.728)*** | -2.448 (2.864)*** | -16.786 (4.158)*** | 3.565 (3.354) |

1.2.2 Newey-West t-statistics

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.905 (4.528)*** | -0.111 (-0.874) | | | | | | | | 1.604 (1.577) |
| 2 | 0.866 (4.274)*** | -0.078 (-0.596) | | | | | -0.441 (-1.575) | | | 1.914 (1.86) |
| 3 | 0.841 (4.215)*** | -0.082 (-0.627) | | | | | | -3.575 (1.953)* | | 1.929 (1.875) |
| 4 | 0.856 (4.232)*** | -0.081 (-0.609) | | | | | | | -3.84 (2.136)** | 1.914 (1.861) |
| 5 | 0.843 (4.245)*** | -0.091 (-0.731) | | | | | -0.402 (-1.578) | -3.351 (2.08)** | | 2.27 (2.19) |
| 6 | 0.851 (4.219)*** | -0.084 (-0.659) | | | | | -0.399 (-1.553) | | -3.518 (2.151)** | 2.176 (2.096) |
| 7 | 0.852 (4.297)*** | -0.093 (-0.731) | | | | | | -3.481 (2.051)** | -3.556 (2.138)** | 2.262 (2.181) |
| 8 | 0.843 (4.248)*** | -0.091 (-0.743) | | | | | -0.375 (-1.55) | -3.235 (2.07)** | -3.229 (2.132)** | 2.48 (2.373) |
| 9 | 0.837 (4.351)*** | -0.09 (-0.824) | -0.017 (-0.229) | 0.146 (2.324)** | | | | | | 2.765 (2.685) |
| 10 | 0.798 (4.111)*** | -0.049 (-0.439) | -0.007 (-0.095) | 0.136 (2.161)** | | | -0.398 (-1.533) | | | 2.98 (2.873) |
| 11 | 0.79 (4.06)*** | -0.049 (-0.439) | -0.005 (-0.066) | 0.149 (2.368)** | | | | -3.527 (1.936)* | | 2.951 (2.844) |
| 12 | 0.794 (4.091)*** | -0.049 (-0.429) | -0.006 (-0.077) | 0.144 (2.258)** | | | | | -3.491 (2.006)** | 2.979 (2.873) |
| 13 | 0.792 (4.077)*** | -0.05 (-0.466) | -0.006 (-0.081) | 0.14 (2.26)** | | | -0.371 (-1.548) | -3.245 (2.121)** | | 3.12 (2.987) |
| 14 | 0.795 (4.107)*** | -0.051 (-0.471) | -0.002 (-0.031) | 0.141 (2.241)** | | | -0.348 (-1.545) | | -3.129 (2.107)** | 3.145 (3.013) |
| 15 | 0.793 (4.098)*** | -0.053 (-0.48) | -0.005 (-0.065) | 0.141 (2.286)** | | | | -3.422 (2.025)** | -3.295 (2.023)** | 3.139 (3.006) |
| 16 | 0.796 (4.125)*** | -0.056 (-0.53) | -0.004 (-0.059) | 0.138 (2.259)** | | | -0.329 (-1.548) | -3.005 (2.143)** | -2.892 (2.118)** | 3.28 (3.121) |
| 17 | 0.819 (4.253)*** | -0.075 (-0.686) | -0.014 (-0.197) | 0.141 (2.292)** | -0.006 (-0.138) | 0.075 (1.76)* | | | | 3.112 (2.98) |
| 18 | 0.789 (4.064)*** | -0.042 (-0.375) | -0.005 (-0.071) | 0.136 (2.201)** | -0.014 (-0.308) | 0.068 (1.603) | -0.411 (-1.507) | | | 3.298 (3.14) |
| 19 | 0.777 (3.988)*** | -0.037 (-0.329) | -0.003 (-0.048) | 0.147 (2.392)** | -0.012 (-0.251) | 0.07 (1.67)* | | -3.589 (1.933)* | | 3.276 (3.117) |
| 20 | 0.781 (4.019)*** | -0.037 (-0.324) | -0.003 (-0.047) | 0.143 (2.309)** | -0.018 (-0.381) | 0.07 (1.659)* | | | -3.553 (1.987)** | 3.294 (3.135) |
| 21 | 0.786 (4.04)*** | -0.045 (-0.412) | -0.004 (-0.06) | 0.137 (2.28)** | -0.008 (-0.187) | 0.068 (1.635) | -0.382 (-1.509) | -3.298 (2.078)** | | 3.417 (3.232) |
| 22 | 0.784 (4.05)*** | -0.04 (-0.367) | -0.001 (-0.01) | 0.139 (2.261)** | -0.013 (-0.276) | 0.068 (1.595) | -0.368 (-1.523) | | -3.226 (2.092)** | 3.432 (3.247) |
| 23 | 0.785 (4.047)*** | -0.044 (-0.395) | -0.004 (-0.059) | 0.138 (2.301)** | -0.011 (-0.251) | 0.069 (1.685)* | | -3.408 (2.006)** | -3.26 (1.969)** | 3.434 (3.249) |
| 24 | 0.789 (4.077)*** | -0.049 (-0.46) | -0.003 (-0.038) | 0.135 (2.27)** | -0.007 (-0.156) | 0.067 (1.635) | -0.343 (-1.501) | -3.055 (2.089)** | -2.924 (2.056)** | 3.554 (3.342) |

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{\beta_{MKTew}}$ | $\hat{\lambda}_{\beta_{FIRMEw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.905 (4.528)*** | -0.111 (-0.874) | | | | | | | | 1.604 (1.577) |
| 2 | 0.883 (4.416)*** | -0.088 (-0.682) | | | | | -3.668 (1.919)* | | | 1.871 (1.817) |
| 3 | 0.844 (4.187)*** | -0.076 (-0.583) | | | | | | -2.385 (1.862)* | | 1.881 (1.827) |
| 4 | 0.839 (4.186)*** | -0.057 (-0.427) | | | | | | | -16.537 (3.073)*** | 1.883 (1.829) |
| 5 | 0.846 (4.218)*** | -0.073 (-0.577) | | | | | -3.663 (2.06)** | -2.332 (1.915)* | | 2.11 (2.03) |
| 6 | 0.834 (4.159)*** | -0.045 (-0.342) | | | | | -3.725 (2.036)** | | -16.838 (3.061)*** | 2.134 (2.053) |
| 7 | 0.835 (4.132)*** | -0.052 (-0.403) | | | | | | -2.356 (1.871)* | -16.057 (3.102)*** | 2.147 (2.066) |
| 8 | 0.833 (4.13)*** | -0.045 (-0.358) | | | | | -3.649 (2.114)** | -2.361 (1.956)* | -15.875 (3.123)*** | 2.35 (2.243) |
| 9 | 0.837 (4.351)*** | -0.09 (-0.824) | -0.017 (-0.229) | 0.146 (2.324)** | | | | | | 2.765 (2.685) |
| 10 | 0.821 (4.265)*** | -0.078 (-0.68) | -0.014 (-0.185) | 0.142 (2.255)** | | | -3.567 (1.786)* | | | 2.915 (2.809) |
| 11 | 0.795 (4.103)*** | -0.05 (-0.45) | -0.006 (-0.087) | 0.145 (2.324)** | | | | -2.368 (1.898)* | | 2.939 (2.833) |
| 12 | 0.78 (4.069)*** | -0.042 (-0.361) | -0.009 (-0.127) | 0.138 (2.135)** | | | | | -17.182 (3.088)*** | 2.983 (2.877) |
| 13 | 0.797 (4.12)*** | -0.056 (-0.506) | -0.007 (-0.094) | 0.143 (2.298)** | | | -3.392 (1.91)* | -2.324 (1.954)* | | 3.078 (2.945) |
| 14 | 0.776 (4.038)*** | -0.042 (-0.36) | -0.007 (-0.091) | 0.134 (2.083)** | | | -3.508 (1.84)* | | -16.866 (3.037)*** | 3.104 (2.971) |
| 15 | 0.778 (4.009)*** | -0.039 (-0.351) | -0.006 (-0.074) | 0.139 (2.199)** | | | | -2.28 (1.925)* | -16.168 (3.239)*** | 3.161 (3.028) |
| 16 | 0.775 (3.987)*** | -0.039 (-0.351) | -0.004 (-0.057) | 0.135 (2.135)** | | | -3.415 (1.985)** | -2.312 (1.948)* | -15.954 (3.195)*** | 3.271 (3.112) |
| 17 | 0.819 (4.253)*** | -0.075 (-0.686) | -0.014 (-0.197) | 0.141 (2.292)** | -0.006 (-0.138) | 0.075 (1.76)* | | | | 3.112 (2.98) |
| 18 | 0.807 (4.172)*** | -0.064 (-0.558) | -0.014 (-0.196) | 0.14 (2.289)** | -0.01 (-0.219) | 0.074 (1.742)* | -3.712 (1.71)* | | | 3.261 (3.102) |
| 19 | 0.781 (4.012)*** | -0.037 (-0.335) | -0.004 (-0.056) | 0.143 (2.334)** | -0.01 (-0.21) | 0.069 (1.626) | | -2.445 (1.907)* | | 3.268 (3.109) |
| 20 | 0.767 (3.995)*** | -0.03 (-0.261) | -0.008 (-0.109) | 0.137 (2.176)** | -0.009 (-0.183) | 0.065 (1.501) | | | -18.051 (3.052)*** | 3.301 (3.142) |
| 21 | 0.785 (4.04)*** | -0.044 (-0.399) | -0.007 (-0.104) | 0.142 (2.345)** | -0.01 (-0.206) | 0.07 (1.675)* | -3.393 (1.787)* | -2.418 (1.95)* | | 3.401 (3.215) |
| 22 | 0.768 (3.99)*** | -0.032 (-0.28) | -0.01 (-0.133) | 0.133 (2.127)** | -0.008 (-0.17) | 0.066 (1.529) | -3.565 (1.775)* | | -17.439 (3.004)*** | 3.425 (3.24) |
| 23 | 0.767 (3.952)*** | -0.029 (-0.258) | -0.004 (-0.061) | 0.138 (2.246)** | -0.007 (-0.153) | 0.066 (1.531) | | -2.397 (1.971)** | -16.84 (3.263)*** | 3.453 (3.268) |
| 24 | 0.768 (3.948)*** | -0.03 (-0.268) | -0.007 (-0.103) | 0.136 (2.212)** | -0.008 (-0.162) | 0.065 (1.535) | -3.482 (1.856)* | -2.448 (1.94)* | -16.786 (3.131)*** | 3.565 (3.354) |

1.2.3 Newey-West t-statistics, dataset is same as controls

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.869 (4.569)*** | -0.053 (-0.416) | | | | | | | | 1.604 (1.564) |
| 2 | 0.826 (4.25)*** | -0.021 (-0.162) | | | | | -0.368 (-1.532) | | | 1.933 (1.854) |
| 3 | 0.812 (4.269)*** | -0.031 (-0.246) | | | | | | -3.092 (2.165)** | | 1.93 (1.851) |
| 4 | 0.822 (4.241)*** | -0.022 (-0.169) | | | | | | | -3.67 (2.283)** | 1.95 (1.871) |
| 5 | 0.811 (4.263)*** | -0.031 (-0.256) | | | | | -0.356 (-1.475) | -3.09 (2.113)** | | 2.353 (2.235) |
| 6 | 0.822 (4.227)*** | -0.032 (-0.258) | | | | | -0.345 (-1.562) | | -3.4 (2.348)** | 2.241 (2.123) |
| 7 | 0.842 (4.44)*** | -0.052 (-0.428) | | | | | | -2.482 (2.201)** | -2.721 (2.198)** | 2.285 (2.167) |
| 8 | 0.824 (4.333)*** | -0.043 (-0.363) | | | | | -0.262 (-1.312) | -2.517 (2.095)** | -2.652 (2.104)** | 2.572 (2.415) |
| 9 | 0.804 (4.361)*** | -0.048 (-0.443) | 0.021 (0.289) | 0.154 (2.573)** | | | | | | 2.89 (2.773) |
| 10 | 0.768 (4.11)*** | -0.014 (-0.129) | 0.035 (0.479) | 0.142 (2.384)** | | | -0.343 (-1.608) | | | 3.133 (2.978) |
| 11 | 0.778 (4.178)*** | -0.029 (-0.267) | 0.033 (0.442) | 0.156 (2.628)*** | | | | -2.883 (2.064)** | | 3.094 (2.939) |
| 12 | 0.765 (4.102)*** | -0.013 (-0.116) | 0.037 (0.506) | 0.149 (2.459)** | | | | | -3.485 (2.273)** | 3.133 (2.977) |
| 13 | 0.766 (4.104)*** | -0.017 (-0.155) | 0.036 (0.492) | 0.147 (2.487)** | | | -0.335 (-1.53) | -2.981 (2.071)** | | 3.293 (3.099) |
| 14 | 0.765 (4.104)*** | -0.019 (-0.18) | 0.041 (0.567) | 0.149 (2.488)** | | | -0.323 (1.671)* | | -3.187 (2.409)** | 3.315 (3.121) |
| 15 | 0.792 (4.278)*** | -0.039 (-0.371) | 0.033 (0.455) | 0.147 (2.483)** | | | | -2.561 (1.973)** | -2.758 (2.102)** | 3.298 (3.104) |
| 16 | 0.781 (4.215)*** | -0.035 (-0.339) | 0.039 (0.539) | 0.145 (2.466)** | | | -0.247 (-1.357) | -2.468 (1.991)** | -2.577 (2.112)** | 3.463 (3.231) |
| 17 | 0.793 (4.283)*** | -0.04 (-0.376) | 0.023 (0.32) | 0.152 (2.594)*** | -0.007 (-0.16) | 0.067 (1.577) | | | | 3.299 (3.106) |
| 18 | 0.765 (4.075)*** | -0.013 (-0.117) | 0.035 (0.49) | 0.143 (2.451)** | -0.011 (-0.252) | 0.057 (1.336) | -0.36 (-1.6) | | | 3.502 (3.27) |
| 19 | 0.769 (4.103)*** | -0.022 (-0.202) | 0.032 (0.45) | 0.155 (2.663)*** | -0.009 (-0.206) | 0.066 (1.559) | | -3.01 (2.028)** | | 3.471 (3.239) |
| 20 | 0.761 (4.062)*** | -0.011 (-0.1) | 0.037 (0.515) | 0.15 (2.538)** | -0.015 (-0.326) | 0.062 (1.461) | | | -3.531 (2.289)** | 3.504 (3.272) |
| 21 | 0.765 (4.084)*** | -0.017 (-0.157) | 0.034 (0.479) | 0.146 (2.53)** | -0.008 (-0.174) | 0.059 (1.421) | -0.349 (-1.519) | -3.045 (2.041)** | | 3.637 (3.367) |
| 22 | 0.764 (4.07)*** | -0.017 (-0.16) | 0.04 (0.567) | 0.15 (2.542)** | -0.013 (-0.289) | 0.059 (1.406) | -0.353 (-1.599) | | -3.317 (2.323)** | 3.66 (3.389) |
| 23 | 0.784 (4.206)*** | -0.032 (-0.301) | 0.033 (0.462) | 0.146 (2.534)** | -0.009 (-0.22) | 0.068 (1.633) | | -2.66 (1.978)** | -2.867 (2.118)** | 3.651 (3.38) |
| 24 | 0.782 (4.19)*** | -0.035 (-0.339) | 0.038 (0.532) | 0.144 (2.512)** | -0.007 (-0.17) | 0.063 (1.537) | -0.26 (-1.335) | -2.474 (1.962)* | -2.619 (2.094)** | 3.79 (3.481) |

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDcw}}$ | $\hat{\lambda}_{\beta_{MKTcw}}$ | $\hat{\lambda}_{\beta_{FIRMcw}}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.869 (4.569)*** | -0.053 (-0.416) | | | | | | | | 1.604 (1.564) |
| 2 | 0.87 (4.573)*** | -0.054 (-0.452) | | | | | -3.423 (2.755)*** | | | 1.916 (1.837) |
| 3 | 0.825 (4.292)*** | -0.037 (-0.294) | | | | | | -1.948 (1.981)** | | 1.889 (1.81) |
| 4 | 0.807 (4.204)*** | 0 (0.003) | | | | | | | -14.634 (2.959)*** | 1.938 (1.859) |
| 5 | 0.836 (4.351)*** | -0.039 (-0.33) | | | | | -3.058 (2.781)*** | -1.651 (2.267)** | | 2.183 (2.065) |
| 6 | 0.833 (4.325)*** | -0.016 (-0.133) | | | | | -3.419 (2.947)*** | | -11.747 (3.299)*** | 2.232 (2.114) |
| 7 | 0.825 (4.276)*** | -0.012 (-0.1) | | | | | | -1.796 (2.058)** | -11.989 (3.206)*** | 2.189 (2.071) |
| 8 | 0.838 (4.314)*** | -0.019 (-0.159) | | | | | -3.068 (2.982)*** | -1.633 (2.388)** | -11.025 (3.239)*** | 2.448 (2.292) |
| 9 | 0.804 (4.361)*** | -0.048 (-0.443) | 0.021 (0.289) | 0.154 (2.573)** | | | | | | 2.89 (2.773) |
| 10 | 0.809 (4.396)*** | -0.055 (-0.53) | 0.024 (0.321) | 0.15 (2.537)** | | | -3.24 (2.664)*** | | | 3.073 (2.918) |
| 11 | 0.787 (4.253)*** | -0.036 (-0.338) | 0.031 (0.425) | 0.151 (2.562)** | | | | -1.844 (2.075)** | | 3.083 (2.927) |
| 12 | 0.752 (4.095)*** | -0.004 (-0.034) | 0.032 (0.432) | 0.146 (2.371)** | | | | | -15.256 (3.297)*** | 3.154 (2.998) |
| 13 | 0.79 (4.254)*** | -0.043 (-0.416) | 0.035 (0.474) | 0.15 (2.56)** | | | -2.756 (2.64)*** | -1.591 (2.344)** | | 3.265 (3.071) |
| 14 | 0.772 (4.174)*** | -0.024 (-0.23) | 0.033 (0.442) | 0.141 (2.323)** | | | -3.144 (2.76)*** | | -12 (3.57)*** | 3.296 (3.103) |
| 15 | 0.771 (4.159)*** | -0.022 (-0.213) | 0.033 (0.451) | 0.144 (2.4)** | | | | -1.639 (2.079)** | -12.5 (3.653)*** | 3.342 (3.149) |
| 16 | 0.778 (4.158)*** | -0.033 (-0.324) | 0.037 (0.501) | 0.142 (2.391)** | | | -2.831 (2.841)*** | -1.518 (2.358)** | -11.634 (3.643)*** | 3.479 (3.247) |
| 17 | 0.793 (4.283)*** | -0.04 (-0.376) | 0.023 (0.32) | 0.152 (2.594)*** | -0.007 (-0.16) | 0.067 (1.577) | | | | 3.299 (3.106) |
| 18 | 0.8 (4.32)*** | -0.045 (-0.444) | 0.023 (0.325) | 0.148 (2.563)** | -0.005 (-0.105) | 0.069 (1.608) | -3.239 (2.517)** | | | 3.472 (3.24) |
| 19 | 0.779 (4.174)*** | -0.029 (-0.275) | 0.031 (0.437) | 0.149 (2.58)** | -0.008 (-0.187) | 0.063 (1.491) | | -1.934 (2.101)** | | 3.467 (3.234) |
| 20 | 0.744 (4.029)*** | 0.001 (0.005) | 0.033 (0.461) | 0.145 (2.417)** | -0.01 (-0.227) | 0.06 (1.363) | | | -15.62 (3.451)*** | 3.52 (3.288) |
| 21 | 0.786 (4.209)*** | -0.038 (-0.372) | 0.032 (0.453) | 0.147 (2.573)** | -0.003 (-0.071) | 0.063 (1.506) | -2.618 (2.448)** | -1.629 (2.379)** | | 3.639 (3.369) |
| 22 | 0.761 (4.098)*** | -0.016 (-0.15) | 0.031 (0.438) | 0.138 (2.361)** | -0.007 (-0.17) | 0.061 (1.396) | -3.08 (2.459)** | | -12.435 (3.642)*** | 3.667 (3.396) |
| 23 | 0.759 (4.081)*** | -0.015 (-0.146) | 0.036 (0.498) | 0.141 (2.416)** | -0.006 (-0.146) | 0.059 (1.369) | | -1.759 (2.203)** | -12.919 (3.787)*** | 3.677 (3.406) |
| 24 | 0.768 (4.1)*** | -0.026 (-0.258) | 0.036 (0.513) | 0.139 (2.418)** | -0.005 (-0.113) | 0.059 (1.396) | -2.637 (2.56)** | -1.623 (2.465)** | -11.714 (3.691)*** | 3.816 (3.507) |

1.2.4 Newey-West t-statistics, controls

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta MktRF}$ | $\hat{\lambda}_{\beta SMB}$ | $\hat{\lambda}_{\beta HML}$ | $\hat{\lambda}_{\beta RMW}$ | $\hat{\lambda}_{\beta CMA}$ | $\hat{\lambda}_{\beta INDvw}$ | $\hat{\lambda}_{\beta MKTvw}$ | $\hat{\lambda}_{\beta FLRMvw}$ | $\hat{\lambda}_{\text{In.BM}}$ | $\hat{\lambda}_{\text{In.ME}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------|
| 1 | 0.869 (4.569)*** | -0.053 (-0.416) | | | | | | | | | | 1.604 (1.564) |
| 2 | 1.286 (3.917)*** | -0.015 (-0.113) | | | | | -0.341 (-1.409) | | | | -0.105 (2.659)*** | 3.102 (2.986) |
| 3 | 0.86 (4.349)*** | 0.043 (0.344) | | | | | -0.375 (-1.536) | | | 0.358 (5.588)*** | | 2.433 (2.315) |
| 4 | 1.16 (3.534)*** | 0.045 (0.376) | | | | | -0.361 (-1.487) | | | 0.276 (4.005)*** | -0.071 (1.694)* | 3.536 (3.381) |
| 5 | 1.144 (3.558)*** | 0.028 (0.238) | | | | | -2.818 (2.009)** | | | 0.272 (3.937)*** | -0.068 (-1.644) | 3.477 (3.322) |
| 6 | 1.144 (3.497)*** | 0.042 (0.348) | | | | | | -3.339 (2.071)** | | 0.281 (4.025)*** | -0.068 (-1.64) | 3.549 (3.394) |
| 7 | 1.159 (3.61)*** | 0.043 (0.369) | | | | | -0.349 (-1.434) | -2.889 (1.991)** | | 0.274 (3.983)*** | -0.071 (1.748)* | 3.743 (3.55) |
| 8 | 1.143 (3.515)*** | 0.039 (0.337) | | | | | -0.323 (-1.47) | | -3.02 (2.089)** | 0.28 (4.025)*** | -0.068 (1.662)* | 3.759 (3.566) |
| 9 | 1.192 (3.698)*** | 0.019 (0.166) | | | | | | -2.277 (2.051)** | -2.476 (1.979)** | 0.28 (4.007)*** | -0.072 (1.759)* | 3.731 (3.538) |
| 10 | 1.171 (3.653)*** | 0.029 (0.262) | | | | | -0.253 (-1.257) | -2.302 (1.942)* | -2.388 (1.881)* | 0.28 (4.016)*** | -0.071 (1.757)* | 3.937 (3.706) |
| 11 | 0.804 (4.361)*** | -0.048 (-0.443) | 0.021 (0.289) | 0.154 (2.573)** | | | | | | | | 2.89 (2.773) |
| 12 | 1.298 (4.316)*** | 0.032 (0.282) | -0.042 (-0.682) | 0.127 (2.124)** | | | -0.317 (-1.464) | | | | -0.112 (3.218)*** | 3.848 (3.655) |
| 13 | 0.828 (4.292)*** | 0.032 (0.309) | 0.03 (0.417) | 0.066 (1.198) | | | -0.339 (-1.565) | | | 0.316 (5.273)*** | | 3.498 (3.305) |
| 14 | 1.18 (3.93)*** | 0.061 (0.573) | -0.015 (-0.259) | 0.064 (1.209) | | | -0.329 (-1.511) | | | 0.246 (3.902)*** | -0.079 (2.173)** | 4.175 (3.944) |
| 15 | 1.19 (3.978)*** | 0.049 (0.462) | -0.019 (-0.325) | 0.078 (1.471) | | | | -2.723 (1.965)* | | 0.24 (3.817)*** | -0.08 (2.192)** | 4.133 (3.902) |
| 16 | 1.178 (3.935)*** | 0.065 (0.596) | -0.016 (-0.269) | 0.072 (1.322) | | | | | -3.177 (2.037)** | 0.247 (3.884)*** | -0.08 (2.187)** | 4.179 (3.949) |
| 17 | 1.17 (3.897)*** | 0.061 (0.571) | -0.015 (-0.253) | 0.067 (1.276) | | | -0.326 (-1.456) | -2.855 (1.983)** | | 0.25 (3.962)*** | -0.078 (2.14)** | 4.324 (4.055) |
| 18 | 1.178 (3.932)*** | 0.055 (0.523) | -0.013 (-0.23) | 0.071 (1.322) | | | -0.301 (-1.544) | | -2.844 (2.128)** | 0.246 (3.881)*** | -0.079 (2.172)** | 4.351 (4.083) |
| 19 | 1.207 (4.046)*** | 0.041 (0.392) | -0.021 (-0.363) | 0.068 (1.287) | | | | -2.445 (1.883)* | -2.5 (1.862)* | 0.254 (3.98)*** | -0.08 (2.211)** | 4.328 (4.06) |
| 20 | 1.188 (3.965)*** | 0.042 (0.405) | -0.015 (-0.256) | 0.066 (1.257) | | | -0.237 (-1.277) | -2.328 (1.888)* | -2.311 (1.857)* | 0.254 (3.992)*** | -0.078 (2.144)** | 4.489 (4.183) |
| 21 | 0.793 (4.283)*** | -0.04 (-0.376) | 0.023 (0.32) | 0.152 (2.594)*** | -0.007 (-0.16) | 0.067 (1.577) | | | | | | 3.299 (3.106) |
| 22 | 1.302 (4.325)*** | 0.036 (0.332) | -0.043 (-0.731) | 0.123 (2.101)** | 0.013 (0.299) | 0.046 (1.06) | -0.332 (-1.462) | | | | -0.113 (3.282)*** | 4.189 (3.92) |
| 23 | 0.829 (4.29)*** | 0.034 (0.328) | 0.029 (0.417) | 0.067 (1.236) | 0.003 (0.078) | 0.018 (0.443) | -0.356 (-1.559) | | | 0.316 (5.333)*** | | 3.855 (3.585) |
| 24 | 1.188 (3.938)*** | 0.066 (0.625) | -0.016 (-0.284) | 0.06 (1.162) | 0.016 (0.408) | 0.015 (0.372) | -0.343 (-1.504) | | | 0.248 (3.916)*** | -0.08 (2.214)** | 4.509 (4.203) |
| 25 | 1.194 (3.966)*** | 0.058 (0.551) | -0.02 (-0.349) | 0.072 (1.389) | 0.018 (0.464) | 0.023 (0.57) | | -2.824 (1.92)* | | 0.244 (3.872)*** | -0.081 (2.235)** | 4.476 (4.17) |
| 26 | 1.188 (3.945)*** | 0.069 (0.641) | -0.017 (-0.294) | 0.067 (1.271) | 0.015 (0.366) | 0.02 (0.492) | | | -3.208 (2.051)** | 0.25 (3.923)*** | -0.081 (2.231)** | 4.515 (4.209) |
| 27 | 1.186 (3.93)*** | 0.063 (0.598) | -0.017 (-0.31) | 0.063 (1.23) | 0.019 (0.495) | 0.017 (0.425) | -0.336 (-1.443) | -2.883 (1.942)* | | 0.25 (3.969)*** | -0.08 (2.208)** | 4.638 (4.294) |
| 28 | 1.193 (3.952)*** | 0.06 (0.575) | -0.014 (-0.258) | 0.067 (1.277) | 0.017 (0.422) | 0.018 (0.445) | -0.33 (-1.494) | | -2.969 (2.065)** | 0.248 (3.899)*** | -0.081 (2.236)** | 4.664 (4.32) |
| 29 | 1.218 (4.051)*** | 0.049 (0.471) | -0.022 (-0.386) | 0.063 (1.216) | 0.019 (0.498) | 0.025 (0.632) | | -2.525 (1.881)* | -2.607 (1.889)* | 0.255 (4.001)*** | -0.082 (2.276)** | 4.651 (4.307) |
| 30 | 1.211 (4.014)*** | 0.044 (0.436) | -0.017 (-0.303) | 0.062 (1.205) | 0.021 (0.551) | 0.021 (0.546) | -0.249 (-1.266) | -2.316 (1.853)* | -2.352 (1.85)* | 0.255 (3.998)*** | -0.081 (2.239)** | 4.787 (4.406) |

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{\beta_{MKTew}}$ | $\hat{\lambda}_{\beta_{FIRMEw}}$ | $\hat{\lambda}_{ln.BM}$ | $\hat{\lambda}_{ln.ME}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|-------------------------|-------------------------|
| 1 | 0.869 (4.569)*** | -0.053 (-0.416) | | | | | | | | | | 1.604 (1.564) |
| 2 | 1.347 (4.1)*** | -0.041 (-0.338) | | | | | -3.668 (2.74)*** | | | | | 3.059 (2.942) |
| 3 | 0.904 (4.659)*** | 0 (0.001) | | | | | -3.347 (2.707)*** | | | 0.334 (5.275)*** | | 2.41 (2.292) |
| 4 | 1.231 (3.736)*** | 0.007 (0.066) | | | | | -3.499 (2.699)*** | | | 0.251 (3.636)*** | -0.078 (1.835)* | 3.489 (3.334) |
| 5 | 1.159 (3.576)*** | 0.026 (0.229) | | | | | | -1.91 (1.989)** | | 0.263 (3.844)*** | -0.07 (1.681)* | 3.451 (3.296) |
| 6 | 1.165 (3.576)*** | 0.059 (0.478) | | | | | | | -14.336 (2.866)*** | 0.276 (3.917)*** | -0.075 (1.775)* | 3.549 (3.394) |
| 7 | 1.195 (3.674)*** | 0.02 (0.183) | | | | | -3.116 (2.706)*** | -1.566 (2.249)** | | 0.256 (3.719)*** | -0.075 (1.791)* | 3.686 (3.493) |
| 8 | 1.216 (3.686)*** | 0.04 (0.347) | | | | | -3.454 (2.856)*** | | -11.113 (3.149)*** | 0.263 (3.72)*** | -0.08 (1.89)* | 3.75 (3.557) |
| 9 | 1.208 (3.7)*** | 0.045 (0.391) | | | | | | -1.739 (2.047)** | -11.773 (3.13)*** | 0.273 (3.912)*** | -0.079 (1.869)* | 3.711 (3.518) |
| 10 | 1.242 (3.767)*** | 0.036 (0.325) | | | | | -3.132 (2.894)*** | -1.522 (2.314)** | -10.551 (3.092)*** | 0.263 (3.738)*** | -0.083 (1.969)** | 3.906 (3.674) |
| 11 | 0.804 (4.361)*** | -0.048 (-0.443) | 0.021 (0.289) | 0.154 (2.573)** | | | | | | | | 2.89 (2.773) |
| 12 | 1.354 (4.5)*** | -0.005 (-0.046) | -0.056 (-0.897) | 0.135 (2.287)** | | | -3.395 (2.589)*** | | | | -0.115 (3.289)*** | 3.793 (3.6) |
| 13 | 0.865 (4.534)*** | -0.007 (-0.074) | 0.017 (0.232) | 0.074 (1.363) | | | -3.172 (2.61)*** | | | 0.312 (5.146)*** | | 3.439 (3.245) |
| 14 | 1.238 (4.119)*** | 0.025 (0.248) | -0.031 (-0.526) | 0.074 (1.419) | | | -3.289 (2.581)** | | | 0.239 (3.755)*** | -0.084 (2.285)** | 4.121 (3.891) |
| 15 | 1.204 (4.031)*** | 0.037 (0.352) | -0.022 (-0.372) | 0.073 (1.393) | | | | -1.771 (2.001)** | | 0.237 (3.782)*** | -0.08 (2.189)** | 4.118 (3.887) |
| 16 | 1.161 (3.898)*** | 0.073 (0.652) | -0.017 (-0.283) | 0.068 (1.25) | | | | | -14.038 (2.958)*** | 0.249 (3.906)*** | -0.079 (2.137)** | 4.205 (3.974) |
| 17 | 1.218 (4.071)*** | 0.03 (0.296) | -0.022 (-0.378) | 0.072 (1.393) | | | -2.814 (2.544)** | -1.488 (2.255)** | | 0.239 (3.765)*** | -0.082 (2.258)** | 4.296 (4.028) |
| 18 | 1.196 (3.978)*** | 0.052 (0.498) | -0.02 (-0.338) | 0.064 (1.202) | | | -3.19 (2.672)*** | | -10.575 (3.106)*** | 0.247 (3.859)*** | -0.081 (2.225)** | 4.346 (4.078) |
| 19 | 1.198 (4)*** | 0.048 (0.46) | -0.022 (-0.38) | 0.065 (1.228) | | | | -1.554 (1.986)** | -11.44 (3.263)*** | 0.246 (3.884)*** | -0.081 (2.214)** | 4.375 (4.107) |
| 20 | 1.216 (4.027)*** | 0.037 (0.369) | -0.022 (-0.38) | 0.064 (1.221) | | | -2.887 (2.726)*** | -1.398 (2.235)** | -10.302 (3.175)*** | 0.244 (3.809)*** | -0.083 (2.271)** | 4.513 (4.207) |
| 21 | 0.793 (4.283)*** | -0.04 (-0.376) | 0.023 (0.32) | 0.152 (2.594)*** | -0.007 (-0.16) | 0.067 (1.577) | | | | | | 3.299 (3.106) |
| 22 | 1.353 (4.496)*** | 0.009 (0.083) | -0.057 (-0.958) | 0.127 (2.207)** | 0.019 (0.472) | 0.057 (1.314) | -3.309 (2.459)** | | | | -0.117 (3.37)*** | 4.166 (3.897) |
| 23 | 0.859 (4.494)*** | 0.004 (0.037) | 0.017 (0.239) | 0.07 (1.335) | 0.011 (0.256) | 0.029 (0.721) | -3.15 (2.478)** | | | 0.316 (5.279)*** | | 3.827 (3.557) |
| 24 | 1.237 (4.102)*** | 0.039 (0.391) | -0.03 (-0.539) | 0.065 (1.286) | 0.024 (0.614) | 0.026 (0.658) | -3.209 (2.458)** | | | 0.245 (3.842)*** | -0.085 (2.32)** | 4.487 (4.181) |
| 25 | 1.206 (4.007)*** | 0.048 (0.467) | -0.022 (-0.402) | 0.065 (1.285) | 0.019 (0.494) | 0.021 (0.517) | | -1.836 (2.012)** | | 0.244 (3.888)*** | -0.081 (2.228)** | 4.47 (4.164) |
| 26 | 1.166 (3.896)*** | 0.08 (0.73) | -0.017 (-0.306) | 0.062 (1.162) | 0.017 (0.418) | 0.018 (0.432) | | | -14.185 (3.095)*** | 0.253 (3.986)*** | -0.08 (2.187)** | 4.537 (4.231) |
| 27 | 1.226 (4.067)*** | 0.039 (0.395) | -0.024 (-0.422) | 0.064 (1.27) | 0.026 (0.669) | 0.021 (0.536) | -2.614 (2.365)** | -1.51 (2.277)** | | 0.244 (3.846)*** | -0.083 (2.299)** | 4.642 (4.298) |
| 28 | 1.197 (3.973)*** | 0.064 (0.623) | -0.022 (-0.381) | 0.056 (1.088) | 0.021 (0.535) | 0.019 (0.469) | -3.052 (2.394)** | | -10.952 (3.179)*** | 0.252 (3.945)*** | -0.082 (2.268)** | 4.684 (4.34) |
| 29 | 1.192 (3.96)*** | 0.059 (0.578) | -0.019 (-0.339) | 0.058 (1.117) | 0.021 (0.559) | 0.017 (0.408) | | -1.665 (2.1)** | -11.73 (3.373)*** | 0.252 (3.993)*** | -0.081 (2.24)** | 4.682 (4.339) |
| 30 | 1.212 (4.006)*** | 0.048 (0.493) | -0.02 (-0.364) | 0.056 (1.11) | 0.024 (0.637) | 0.017 (0.434) | -2.655 (2.467)** | -1.505 (2.342)** | -10.365 (3.219)*** | 0.25 (3.918)*** | -0.083 (2.295)** | 4.822 (4.44) |

1.3 Hoberg-Phillips FIC-25 industries

1.3.1 Fama-MacBeth t-statistics

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.856 (2.904)*** | 0.24 (1.059) | | | | | | | | 1.674 (1.641) |
| 2 | 0.826 (2.783)*** | 0.275 (1.198) | | | | | -1.8 (2.02)** | | | 1.873 (1.808) |
| 3 | 0.809 (2.749)*** | 0.246 (1.074) | | | | | | -8.264 (2.189)** | | 1.892 (1.827) |
| 4 | 0.798 (2.69)*** | 0.289 (1.252) | | | | | | | -6.46 (2.439)** | 1.891 (1.826) |
| 5 | 0.79 (2.687)*** | 0.245 (1.082) | | | | | -1.554 (1.793)* | -8.083 (2.197)** | | 2.043 (1.945) |
| 6 | 0.779 (2.648)*** | 0.28 (1.224) | | | | | -1.894 (2.135)** | | -6.447 (2.469)** | 2.038 (1.941) |
| 7 | 0.801 (2.713)*** | 0.25 (1.109) | | | | | | -8.181 (2.225)** | | 2.056 (1.959) |
| 8 | 0.763 (2.606)*** | 0.257 (1.137) | | | | | -1.6 (1.864)* | -8.321 (2.262)** | -5.565 (2.212)** | 2.171 (2.042) |
| 9 | 0.838 (2.964)*** | 0.289 (1.314) | -0.002 (-0.033) | 0.142 (1.365) | | | | | | 2.116 (2.019) |
| 10 | 0.813 (2.873)*** | 0.32 (1.441) | 0.005 (0.075) | 0.147 (1.409) | | | -1.76 (1.995)** | | | 2.307 (2.178) |
| 11 | 0.839 (2.955)*** | 0.286 (1.287) | 0.012 (0.165) | 0.15 (1.402) | | | | -8.267 (2.148)** | | 2.303 (2.174) |
| 12 | 0.802 (2.834)*** | 0.324 (1.458) | 0.012 (0.168) | 0.152 (1.438) | | | | | -6.369 (2.389)** | 2.317 (2.188) |
| 13 | 0.828 (2.906)*** | 0.288 (1.311) | 0.007 (0.097) | 0.161 (1.56) | | | -1.557 (1.805)* | -8.332 (2.214)** | | 2.456 (2.295) |
| 14 | 0.787 (2.79)*** | 0.301 (1.368) | 0.034 (0.465) | 0.171 (1.58) | | | -1.908 (2.143)** | | -6.601 (2.478)** | 2.463 (2.302) |
| 15 | 0.837 (2.939)*** | 0.287 (1.316) | 0.006 (0.09) | 0.153 (1.492) | | | | -8.31 (2.216)** | -5.27 (2.057)** | 2.462 (2.301) |
| 16 | 0.814 (2.869)*** | 0.277 (1.277) | 0.03 (0.409) | 0.174 (1.667)* | | | -1.605 (1.863)* | -8.446 (2.251)** | -5.557 (2.164)** | 2.59 (2.396) |
| 17 | 0.814 (2.882)*** | 0.281 (1.285) | 0.007 (0.105) | 0.157 (1.537) | -0.077 (-0.757) | -0.03 (-0.503) | | | | 2.471 (2.31) |
| 18 | 0.788 (2.785)*** | 0.317 (1.426) | 0.016 (0.236) | 0.161 (1.556) | -0.091 (-0.885) | -0.032 (-0.542) | -1.963 (2.137)** | | | 2.65 (2.457) |
| 19 | 0.812 (2.854)*** | 0.29 (1.293) | 0.017 (0.244) | 0.161 (1.547) | -0.077 (-0.756) | -0.024 (-0.416) | | -8.44 (2.152)** | | 2.642 (2.449) |
| 20 | 0.78 (2.754)*** | 0.322 (1.441) | 0.018 (0.254) | 0.165 (1.583) | -0.09 (-0.886) | -0.033 (-0.546) | | | -6.514 (2.38)** | 2.658 (2.465) |
| 21 | 0.812 (2.848)*** | 0.29 (1.31) | 0.006 (0.084) | 0.168 (1.681)* | -0.064 (-0.648) | -0.011 (-0.194) | -1.699 (1.911)* | -8.506 (2.222)** | | 2.77 (2.545) |
| 22 | 0.776 (2.742)*** | 0.31 (1.402) | 0.03 (0.421) | 0.171 (1.627) | -0.081 (-0.809) | -0.036 (-0.582) | -2.025 (2.216)** | | -6.793 (2.499)** | 2.763 (2.538) |
| 23 | 0.819 (2.868)*** | 0.284 (1.296) | 0.007 (0.097) | 0.165 (1.645) | -0.063 (-0.641) | -0.017 (-0.302) | | -8.333 (2.196)** | -5.357 (2.045)** | 2.779 (2.554) |
| 24 | 0.808 (2.835)*** | 0.283 (1.292) | 0.021 (0.298) | 0.174 (1.725)* | -0.058 (-0.602) | -0.014 (-0.255) | -1.684 (1.911)* | -8.47 (2.236)** | -5.656 (2.165)** | 2.886 (2.629) |

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{\beta_{MKTew}}$ | $\hat{\lambda}_{\beta_{FIRMeW}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.856 (2.904)*** | 0.24 (1.059) | | | | | | | | 1.674 (1.641) |
| 2 | 0.784 (2.652)*** | 0.319 (1.33) | | | | | -0.827 (2.425)** | | | 1.9 (1.836) |
| 3 | 0.797 (2.719)*** | 0.274 (1.164) | | | | | | -6.7 (2.159)** | | 1.905 (1.841) |
| 4 | 0.785 (2.655)*** | 0.308 (1.282) | | | | | | | -25.904 (2.376)** | 1.864 (1.799) |
| 5 | 0.776 (2.651)*** | 0.285 (1.211) | | | | | -0.695 (2.117)** | -6.572 (2.17)** | | 2.064 (1.967) |
| 6 | 0.762 (2.593)*** | 0.333 (1.388) | | | | | -0.778 (2.255)** | | -27.203 (2.372)** | 2.042 (1.945) |
| 7 | 0.789 (2.667)*** | 0.297 (1.266) | | | | | | -6.707 (2.179)** | -24.659 (2.219)** | 2.037 (1.94) |
| 8 | 0.743 (2.552)** | 0.313 (1.329) | | | | | -0.68 (2.043)** | -6.629 (2.159)** | -23.499 (2.125)** | 2.192 (2.063) |
| 9 | 0.838 (2.964)*** | 0.289 (1.314) | -0.002 (-0.033) | 0.142 (1.365) | | | | | | 2.116 (2.019) |
| 10 | 0.775 (2.753)*** | 0.354 (1.53) | 0.018 (0.241) | 0.154 (1.427) | | | -0.803 (2.352)** | | | 2.336 (2.207) |
| 11 | 0.806 (2.864)*** | 0.316 (1.383) | 0.016 (0.215) | 0.148 (1.381) | | | | -6.797 (2.157)** | | 2.32 (2.191) |
| 12 | 0.783 (2.78)*** | 0.344 (1.469) | 0.009 (0.128) | 0.151 (1.407) | | | | | -25.017 (2.222)** | 2.296 (2.167) |
| 13 | 0.799 (2.822)*** | 0.316 (1.39) | 0.014 (0.187) | 0.16 (1.487) | | | -0.667 (1.998)** | -6.653 (2.146)** | | 2.465 (2.304) |
| 14 | 0.749 (2.668)*** | 0.371 (1.581) | 0.021 (0.282) | 0.153 (1.43) | | | -0.766 (2.206)** | | -26.195 (2.263)** | 2.463 (2.302) |
| 15 | 0.792 (2.792)*** | 0.322 (1.41) | 0.028 (0.376) | 0.161 (1.522) | | | | -6.652 (2.136)** | -23.074 (2.026)** | 2.428 (2.267) |
| 16 | 0.769 (2.718)*** | 0.337 (1.468) | 0.021 (0.279) | 0.163 (1.536) | | | -0.641 (1.902)* | -6.539 (2.097)** | -21.489 (1.898)* | 2.582 (2.389) |
| 17 | 0.814 (2.882)*** | 0.281 (1.285) | 0.007 (0.105) | 0.157 (1.537) | -0.077 (-0.757) | -0.03 (-0.503) | | | | 2.471 (2.31) |
| 18 | 0.759 (2.693)*** | 0.343 (1.498) | 0.024 (0.341) | 0.164 (1.55) | -0.093 (-0.898) | -0.041 (-0.67) | -0.832 (2.389)** | | | 2.67 (2.477) |
| 19 | 0.779 (2.761)*** | 0.317 (1.389) | 0.023 (0.32) | 0.159 (1.509) | -0.083 (-0.813) | -0.034 (-0.566) | | -7.049 (2.191)** | | 2.661 (2.468) |
| 20 | 0.765 (2.711)*** | 0.331 (1.429) | 0.017 (0.248) | 0.166 (1.57) | -0.087 (-0.845) | -0.036 (-0.594) | | | -26.304 (2.244)** | 2.634 (2.441) |
| 21 | 0.779 (2.75)*** | 0.319 (1.404) | 0.011 (0.155) | 0.168 (1.612) | -0.068 (-0.672) | -0.025 (-0.426) | -0.698 (2.033)** | -6.966 (2.195)** | | 2.769 (2.544) |
| 22 | 0.739 (2.63)*** | 0.354 (1.528) | 0.025 (0.357) | 0.164 (1.572) | -0.094 (-0.921) | -0.044 (-0.734) | | -0.782 (2.219)** | -26.824 (2.26)** | 2.786 (2.561) |
| 23 | 0.772 (2.717)*** | 0.319 (1.402) | 0.031 (0.442) | 0.173 (1.673)* | -0.076 (-0.756) | -0.027 (-0.46) | | -6.919 (2.187)** | -23.91 (2.04)** | 2.734 (2.509) |
| 24 | 0.754 (2.67)*** | 0.335 (1.464) | 0.019 (0.268) | 0.175 (1.701)* | -0.071 (-0.704) | -0.026 (-0.451) | -0.675 (1.947)* | -6.987 (2.188)** | -22.619 (1.926)* | 2.879 (2.622) |

1.3.2 Shanken t-statistics

| $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | R^2, \bar{R}^2 (in %) |
|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 0.856 | 0.24 | | | | | | | | 1.674 |
| (2.904)*** | (1.05) | | | | | | | | (1.641) |
| 0.826 | 0.275 | | | | | -1.8 | | | 1.873 |
| (2.783)*** | (1.19) | | | | | (2.007)** | | | (1.808) |
| 0.809 | 0.246 | | | | | | -8.264 | | 1.892 |
| (2.749)*** | (1.066) | | | | | | (2.162)** | | (1.827) |
| 0.798 | 0.289 | | | | | | | -6.46 | 1.891 |
| (2.69)*** | (1.245) | | | | | | | (2.424)** | (1.826) |
| 0.79 | 0.245 | | | | | -1.554 | -8.083 | | 2.043 |
| (2.687)*** | (1.074) | | | | | (1.784)* | (2.171)** | | (1.945) |
| 0.779 | 0.28 | | | | | -1.894 | | -6.447 | 2.038 |
| (2.648)*** | (1.217) | | | | | (2.12)** | | (2.454)** | (1.941) |
| 0.801 | 0.25 | | | | | | -8.181 | -5.425 | 2.056 |
| (2.713)*** | (1.101) | | | | | | (2.198)** | (2.124)** | (1.959) |
| 0.763 | 0.257 | | | | | -1.6 | -8.321 | -5.565 | 2.171 |
| (2.606)*** | (1.131) | | | | | (1.854)* | (2.234)** | (2.201)** | (2.042) |
| 0.838 | 0.289 | -0.002 | 0.142 | | | | | | 2.116 |
| (2.964)*** | (1.305) | (-0.032) | (1.337) | | | | | | (2.019) |
| 0.813 | 0.32 | 0.005 | 0.147 | | | -1.76 | | | 2.307 |
| (2.873)*** | (1.433) | (0.073) | (1.382) | | | (1.983)** | | | (2.178) |
| 0.839 | 0.286 | 0.012 | 0.15 | | | | -8.267 | | 2.303 |
| (2.955)*** | (1.278) | (0.16) | (1.374) | | | | (2.121)** | | (2.174) |
| 0.802 | 0.324 | 0.012 | 0.152 | | | | | -6.369 | 2.317 |
| (2.834)*** | (1.45) | (0.164) | (1.413) | | | | | (2.375)** | (2.188) |
| 0.828 | 0.288 | 0.007 | 0.161 | | | -1.557 | -8.332 | | 2.456 |
| (2.906)*** | (1.303) | (0.094) | (1.53) | | | (1.795)* | (2.186)** | | (2.295) |
| 0.787 | 0.301 | 0.034 | 0.171 | | | -1.908 | | -6.601 | 2.463 |
| (2.79)*** | (1.361) | (0.454) | (1.554) | | | (2.129)** | | (2.462)** | (2.302) |
| 0.837 | 0.287 | 0.006 | 0.153 | | | | -8.31 | -5.27 | 2.462 |
| (2.939)*** | (1.307) | (0.087) | (1.463) | | | | (2.188)** | (2.048)** | (2.301) |
| 0.814 | 0.277 | 0.03 | 0.174 | | | -1.605 | -8.446 | -5.557 | 2.59 |
| (2.869)*** | (1.269) | (0.399) | (1.638) | | | (1.852)* | (2.222)** | (2.154)** | (2.396) |
| 0.814 | 0.281 | 0.007 | 0.157 | -0.077 | -0.03 | | | | 2.471 |
| (2.882)*** | (1.277) | (0.102) | (1.509) | (-0.725) | (-0.471) | | | | (2.31) |
| 0.788 | 0.317 | 0.016 | 0.161 | -0.091 | -0.032 | -1.963 | | | 2.65 |
| (2.785)*** | (1.419) | (0.231) | (1.53) | (-0.848) | (-0.51) | (2.122)** | | | (2.457) |
| 0.812 | 0.29 | 0.017 | 0.161 | -0.077 | -0.024 | | -8.44 | | 2.642 |
| (2.854)*** | (1.285) | (0.237) | (1.519) | (-0.724) | (-0.39) | | (2.125)** | | (2.449) |
| 0.78 | 0.322 | 0.018 | 0.165 | -0.09 | -0.033 | | | -6.514 | 2.658 |
| (2.754)*** | (1.434) | (0.248) | (1.557) | (-0.85) | (-0.514) | | | (2.365)** | (2.465) |
| 0.812 | 0.29 | 0.006 | 0.168 | -0.064 | -0.011 | -1.699 | -8.506 | | 2.77 |
| (2.848)*** | (1.302) | (0.082) | (1.651)* | (-0.621) | (-0.182) | (1.9)* | (2.193)** | | (2.545) |
| 0.776 | 0.31 | 0.03 | 0.171 | -0.081 | -0.036 | -2.025 | | -6.793 | 2.763 |
| (2.742)*** | (1.395) | (0.411) | (1.601) | (-0.777) | (-0.548) | (2.2)** | | (2.483)** | (2.538) |
| 0.819 | 0.284 | 0.007 | 0.165 | -0.063 | -0.017 | | -8.333 | -5.357 | 2.779 |
| (2.868)*** | (1.287) | (0.095) | (1.615) | (-0.614) | (-0.283) | | (2.168)** | (2.036)** | (2.554) |
| 0.808 | 0.283 | 0.021 | 0.174 | -0.058 | -0.014 | -1.684 | -8.47 | -5.656 | 2.886 |
| (2.835)*** | (1.284) | (0.29) | (1.695)* | (-0.578) | (-0.24) | (1.9)* | (2.206)** | (2.155)** | (2.629) |

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDeW}}$ | $\hat{\lambda}_{\beta_{MKTeW}}$ | $\hat{\lambda}_{\beta_{FIRMeW}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.856 (2.904)*** | 0.24 (1.05) | | | | | | | | 1.674 (1.641) |
| 2 | 0.784 (2.652)*** | 0.319 (1.324) | | | | | -0.827 (2.377)** | | | 1.9 (1.836) |
| 3 | 0.797 (2.719)*** | 0.274 (1.157) | | | | | | -6.7 (2.135)** | | 1.905 (1.841) |
| 4 | 0.785 (2.655)*** | 0.308 (1.275) | | | | | | | -25.904 (2.369)** | 1.864 (1.799) |
| 5 | 0.776 (2.651)*** | 0.285 (1.204) | | | | | -0.695 (2.081)** | -6.572 (2.147)** | | 2.064 (1.967) |
| 6 | 0.762 (2.593)*** | 0.333 (1.382) | | | | | -0.778 (2.214)** | | -27.203 (2.365)** | 2.042 (1.945) |
| 7 | 0.789 (2.667)*** | 0.297 (1.259) | | | | | | -6.707 (2.155)** | -24.659 (2.214)** | 2.037 (1.94) |
| 8 | 0.743 (2.552)** | 0.313 (1.323) | | | | | -0.68 (2.011)** | -6.629 (2.136)** | -23.499 (2.12)** | 2.192 (2.063) |
| 9 | 0.838 (2.964)*** | 0.289 (1.305) | -0.002 (-0.032) | 0.142 (1.337) | | | | | | 2.116 (2.019) |
| 10 | 0.775 (2.753)*** | 0.354 (1.524) | 0.018 (0.235) | 0.154 (1.403) | | | -0.803 (2.307)** | | | 2.336 (2.207) |
| 11 | 0.806 (2.864)*** | 0.316 (1.376) | 0.016 (0.209) | 0.148 (1.356) | | | | -6.797 (2.133)** | | 2.32 (2.191) |
| 12 | 0.783 (2.78)*** | 0.344 (1.462) | 0.009 (0.125) | 0.151 (1.383) | | | | | -25.017 (2.216)** | 2.296 (2.167) |
| 13 | 0.799 (2.822)*** | 0.316 (1.383) | 0.014 (0.182) | 0.16 (1.461) | | | -0.667 (1.965)* | -6.653 (2.123)** | | 2.465 (2.304) |
| 14 | 0.749 (2.668)*** | 0.371 (1.576) | 0.021 (0.276) | 0.153 (1.408) | | | -0.766 (2.167)** | | -26.195 (2.256)** | 2.463 (2.302) |
| 15 | 0.792 (2.792)*** | 0.322 (1.403) | 0.028 (0.367) | 0.161 (1.496) | | | | -6.652 (2.113)** | -23.074 (2.021)** | 2.428 (2.267) |
| 16 | 0.769 (2.718)*** | 0.337 (1.461) | 0.021 (0.272) | 0.163 (1.512) | | | -0.641 (1.873)* | -6.539 (2.076)** | -21.489 (1.895)* | 2.582 (2.389) |
| 17 | 0.814 (2.882)*** | 0.281 (1.277) | 0.007 (0.102) | 0.157 (1.509) | -0.077 (-0.725) | -0.03 (-0.471) | | | | 2.471 (2.31) |
| 18 | 0.759 (2.693)*** | 0.343 (1.492) | 0.024 (0.333) | 0.164 (1.526) | -0.093 (-0.863) | -0.041 (-0.632) | -0.832 (2.343)** | | | 2.67 (2.477) |
| 19 | 0.779 (2.761)*** | 0.317 (1.383) | 0.023 (0.313) | 0.159 (1.484) | -0.083 (-0.78) | -0.034 (-0.533) | | -7.049 (2.165)** | | 2.661 (2.468) |
| 20 | 0.765 (2.711)*** | 0.331 (1.423) | 0.017 (0.242) | 0.166 (1.546) | -0.087 (-0.812) | -0.036 (-0.56) | | | -26.304 (2.237)** | 2.634 (2.441) |
| 21 | 0.779 (2.75)*** | 0.319 (1.397) | 0.011 (0.152) | 0.168 (1.586) | -0.068 (-0.647) | -0.025 (-0.402) | -0.698 (1.998)** | -6.966 (2.169)** | | 2.769 (2.544) |
| 22 | 0.739 (2.63)*** | 0.354 (1.523) | 0.025 (0.349) | 0.164 (1.55) | -0.094 (-0.887) | -0.044 (-0.694) | -0.782 (2.179)** | | -26.824 (2.253)** | 2.786 (2.561) |
| 23 | 0.772 (2.717)*** | 0.319 (1.395) | 0.031 (0.432) | 0.173 (1.647) | -0.076 (-0.727) | -0.027 (-0.434) | | -6.919 (2.162)** | -23.91 (2.035)** | 2.734 (2.509) |
| 24 | 0.754 (2.67)*** | 0.335 (1.458) | 0.019 (0.262) | 0.175 (1.677)* | -0.071 (-0.679) | -0.026 (-0.426) | -0.675 (1.916)* | -6.987 (2.163)** | -22.619 (1.922)* | 2.879 (2.622) |

1.3.3 Newey-West t-statistics

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.856 (1.995)** | 0.24 (0.875) | | | | | | | | 1.674 (1.641) |
| 2 | 0.826 (1.919)* | 0.275 (0.969) | | | | | -1.8 (-1.38) | | | 1.873 (1.808) |
| 3 | 0.809 (1.899)* | 0.246 (0.886) | | | | | | -8.264 (-1.568) | | 1.892 (1.827) |
| 4 | 0.798 (1.858)* | 0.289 (1.009) | | | | | | | -6.46 (1.654)* | 1.891 (1.826) |
| 5 | 0.79 (1.863)* | 0.245 (0.893) | | | | | -1.554 (-1.27) | -8.083 (-1.594) | | 2.043 (1.945) |
| 6 | 0.779 (1.834)* | 0.28 (0.99) | | | | | -1.894 (-1.439) | | -6.447 (1.65)* | 2.038 (1.941) |
| 7 | 0.801 (1.877)* | 0.25 (0.914) | | | | | | -8.181 (-1.619) | -5.425 (-1.511) | 2.056 (1.959) |
| 8 | 0.763 (1.81)* | 0.257 (0.934) | | | | | -1.6 (-1.309) | -8.321 (-1.648) | -5.565 (-1.547) | 2.171 (2.042) |
| 9 | 0.838 (2.031)** | 0.289 (1.076) | -0.002 (-0.028) | 0.142 (1.246) | | | | | | 2.116 (2.019) |
| 10 | 0.813 (1.98)** | 0.32 (1.164) | 0.005 (0.065) | 0.147 (1.255) | | | -1.76 (-1.351) | | | 2.307 (2.178) |
| 11 | 0.839 (2.041)** | 0.286 (1.058) | 0.012 (0.142) | 0.15 (1.272) | | | | -8.267 (-1.55) | | 2.303 (2.174) |
| 12 | 0.802 (1.956)* | 0.324 (1.179) | 0.012 (0.145) | 0.152 (1.285) | | | | | -6.369 (-1.623) | 2.317 (2.188) |
| 13 | 0.828 (2.011)** | 0.288 (1.082) | 0.007 (0.084) | 0.161 (1.392) | | | -1.557 (-1.273) | -8.332 (-1.615) | | 2.456 (2.295) |
| 14 | 0.787 (1.924)* | 0.301 (1.112) | 0.034 (0.395) | 0.171 (1.386) | | | -1.908 (-1.439) | | -6.601 (1.654)* | 2.463 (2.302) |
| 15 | 0.837 (2.037)** | 0.287 (1.09) | 0.006 (0.077) | 0.153 (1.358) | | | | -8.31 (-1.633) | -5.27 (-1.467) | 2.462 (2.301) |
| 16 | 0.814 (1.986)** | 0.277 (1.061) | 0.03 (0.342) | 0.174 (1.47) | | | -1.605 (-1.308) | -8.446 (-1.642) | -5.557 (-1.513) | 2.59 (2.396) |
| 17 | 0.814 (1.971)** | 0.281 (1.061) | 0.007 (0.096) | 0.157 (1.397) | -0.077 (-0.597) | -0.03 (-0.447) | | | | 2.471 (2.31) |
| 18 | 0.788 (1.905)* | 0.317 (1.159) | 0.016 (0.215) | 0.161 (1.386) | -0.091 (-0.686) | -0.032 (-0.48) | -1.963 (-1.438) | | | 2.65 (2.457) |
| 19 | 0.812 (1.956)* | 0.29 (1.071) | 0.017 (0.222) | 0.161 (1.403) | -0.077 (-0.599) | -0.024 (-0.37) | | -8.44 (-1.544) | | 2.642 (2.449) |
| 20 | 0.78 (1.886)* | 0.322 (1.173) | 0.018 (0.229) | 0.165 (1.406) | -0.09 (-0.691) | -0.033 (-0.487) | | | -6.514 (-1.612) | 2.658 (2.465) |
| 21 | 0.812 (1.955)* | 0.29 (1.083) | 0.006 (0.076) | 0.168 (1.521) | -0.064 (-0.506) | -0.011 (-0.172) | -1.699 (-1.337) | -8.506 (-1.609) | | 2.77 (2.545) |
| 22 | 0.776 (1.876)* | 0.31 (1.139) | 0.03 (0.375) | 0.171 (1.431) | -0.081 (-0.631) | -0.036 (-0.521) | -2.025 (-1.479) | | -6.793 (1.662)* | 2.763 (2.538) |
| 23 | 0.819 (1.972)** | 0.284 (1.081) | 0.007 (0.087) | 0.165 (1.501) | -0.063 (-0.501) | -0.017 (-0.271) | | -8.333 (-1.629) | -5.357 (-1.464) | 2.779 (2.554) |
| 24 | 0.808 (1.947)* | 0.283 (1.079) | 0.021 (0.262) | 0.174 (1.543) | -0.058 (-0.474) | -0.014 (-0.23) | -1.684 (-1.341) | -8.47 (-1.635) | -5.656 (-1.517) | 2.886 (2.629) |

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{\beta_{MKTew}}$ | $\hat{\lambda}_{\beta_{FIRMeW}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.856 (1.995)** | 0.24 (0.875) | | | | | | | | 1.674 (1.641) |
| 2 | 0.784 (1.822)* | 0.319 (1.066) | | | | | -0.827 (-1.641) | | | 1.9 (1.836) |
| 3 | 0.797 (1.874)* | 0.274 (0.953) | | | | | | -6.7 (-1.553) | | 1.905 (1.841) |
| 4 | 0.785 (1.822)* | 0.308 (1.038) | | | | | | | -25.904 (1.672)* | 1.864 (1.799) |
| 5 | 0.776 (1.821)* | 0.285 (0.984) | | | | | -0.695 (-1.512) | -6.572 (-1.6) | | 2.064 (1.967) |
| 6 | 0.762 (1.771)* | 0.333 (1.114) | | | | | -0.778 (-1.534) | | -27.203 (1.649)* | 2.042 (1.945) |
| 7 | 0.789 (1.835)* | 0.297 (1.032) | | | | | | -6.707 (-1.571) | -24.659 (-1.614) | 2.037 (1.94) |
| 8 | 0.743 (1.746)* | 0.313 (1.081) | | | | | -0.68 (-1.446) | -6.629 (-1.57) | -23.499 (-1.558) | 2.192 (2.063) |
| 9 | 0.838 (2.031)** | 0.289 (1.076) | -0.002 (-0.028) | 0.142 (1.246) | | | | | | 2.116 (2.019) |
| 10 | 0.775 (1.888)* | 0.354 (1.222) | 0.018 (0.206) | 0.154 (1.27) | | | -0.803 (-1.591) | | | 2.336 (2.207) |
| 11 | 0.806 (1.976)** | 0.316 (1.122) | 0.016 (0.182) | 0.148 (1.256) | | | | -6.797 (-1.56) | | 2.32 (2.191) |
| 12 | 0.783 (1.903)* | 0.344 (1.178) | 0.009 (0.111) | 0.151 (1.276) | | | | | -25.017 (-1.567) | 2.296 (2.167) |
| 13 | 0.799 (1.939)* | 0.316 (1.133) | 0.014 (0.157) | 0.16 (1.339) | | | -0.667 (-1.446) | -6.653 (-1.605) | | 2.465 (2.304) |
| 14 | 0.749 (1.823)* | 0.371 (1.26) | 0.021 (0.239) | 0.153 (1.282) | | | -0.766 (-1.5) | | -26.195 (-1.58) | 2.463 (2.302) |
| 15 | 0.792 (1.918)* | 0.322 (1.144) | 0.028 (0.31) | 0.161 (1.399) | | | | -6.652 (-1.552) | -23.074 (-1.487) | 2.428 (2.267) |
| 16 | 0.769 (1.86)* | 0.337 (1.19) | 0.021 (0.231) | 0.163 (1.394) | | | -0.641 (-1.374) | -6.539 (-1.563) | -21.489 (-1.437) | 2.582 (2.389) |
| 17 | 0.814 (1.971)** | 0.281 (1.061) | 0.007 (0.096) | 0.157 (1.397) | -0.077 (-0.597) | -0.03 (-0.447) | | | | 2.471 (2.31) |
| 18 | 0.759 (1.839)* | 0.343 (1.208) | 0.024 (0.302) | 0.164 (1.379) | -0.093 (-0.698) | -0.041 (-0.589) | -0.832 (-1.616) | | | 2.67 (2.477) |
| 19 | 0.779 (1.893)* | 0.317 (1.134) | 0.023 (0.286) | 0.159 (1.365) | -0.083 (-0.639) | -0.034 (-0.503) | | -7.049 (-1.562) | | 2.661 (2.468) |
| 20 | 0.765 (1.848)* | 0.331 (1.157) | 0.017 (0.222) | 0.166 (1.418) | -0.087 (-0.662) | -0.036 (-0.526) | | | -26.304 (-1.574) | 2.634 (2.441) |
| 21 | 0.779 (1.88)* | 0.319 (1.144) | 0.011 (0.137) | 0.168 (1.448) | -0.068 (-0.527) | -0.025 (-0.379) | -0.698 (-1.443) | -6.966 (-1.597) | | 2.769 (2.544) |
| 22 | 0.739 (1.792)* | 0.354 (1.228) | 0.025 (0.317) | 0.164 (1.416) | -0.094 (-0.712) | -0.044 (-0.657) | -0.782 (-1.512) | | -26.824 (-1.576) | 2.786 (2.561) |
| 23 | 0.772 (1.857)* | 0.319 (1.143) | 0.031 (0.384) | 0.173 (1.535) | -0.076 (-0.595) | -0.027 (-0.416) | | -6.919 (-1.575) | -23.91 (-1.482) | 2.734 (2.509) |
| 24 | 0.754 (1.821)* | 0.335 (1.185) | 0.019 (0.234) | 0.175 (1.543) | -0.071 (-0.546) | -0.026 (-0.405) | -0.675 (-1.372) | -6.987 (-1.583) | -22.619 (-1.402) | 2.879 (2.622) |

1.3.4 Newey-West t-statistics, dataset is same as controls

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.856 (1.995)** | 0.24 (0.875) | | | | | | | | 1.674 (1.641) |
| 2 | 0.826 (1.919)* | 0.275 (0.969) | | | | | -1.8 (-1.38) | | | 1.873 (1.808) |
| 3 | 0.809 (1.899)* | 0.246 (0.886) | | | | | | -8.264 (-1.568) | | 1.892 (1.827) |
| 4 | 0.798 (1.858)* | 0.289 (1.009) | | | | | | | -6.46 (1.654)* | 1.891 (1.826) |
| 5 | 0.79 (1.863)* | 0.245 (0.893) | | | | | -1.554 (-1.27) | -8.083 (-1.594) | | 2.043 (1.945) |
| 6 | 0.779 (1.834)* | 0.28 (0.99) | | | | | -1.894 (-1.439) | | -6.447 (1.65)* | 2.038 (1.941) |
| 7 | 0.801 (1.877)* | 0.25 (0.914) | | | | | | -8.181 (-1.619) | -5.425 (-1.511) | 2.056 (1.959) |
| 8 | 0.763 (1.81)* | 0.257 (0.934) | | | | | -1.6 (-1.309) | -8.321 (-1.648) | -5.565 (-1.547) | 2.171 (2.042) |
| 9 | 0.838 (2.031)** | 0.289 (1.076) | -0.002 (-0.028) | 0.142 (1.246) | | | | | | 2.116 (2.019) |
| 10 | 0.813 (1.98)** | 0.32 (1.164) | 0.005 (0.065) | 0.147 (1.255) | | | -1.76 (-1.351) | | | 2.307 (2.178) |
| 11 | 0.839 (2.041)** | 0.286 (1.058) | 0.012 (0.142) | 0.15 (1.272) | | | | -8.267 (-1.55) | | 2.303 (2.174) |
| 12 | 0.802 (1.956)* | 0.324 (1.179) | 0.012 (0.145) | 0.152 (1.285) | | | | | -6.369 (-1.623) | 2.317 (2.188) |
| 13 | 0.828 (2.011)** | 0.288 (1.082) | 0.007 (0.084) | 0.161 (1.392) | | | -1.557 (-1.273) | -8.332 (-1.615) | | 2.456 (2.295) |
| 14 | 0.787 (1.924)* | 0.301 (1.112) | 0.034 (0.395) | 0.171 (1.386) | | | -1.908 (-1.439) | | -6.601 (1.654)* | 2.463 (2.302) |
| 15 | 0.837 (2.037)** | 0.287 (1.09) | 0.006 (0.077) | 0.153 (1.358) | | | | -8.31 (-1.633) | -5.27 (-1.467) | 2.462 (2.301) |
| 16 | 0.814 (1.986)** | 0.277 (1.061) | 0.03 (0.342) | 0.174 (1.47) | | | -1.605 (-1.308) | -8.446 (-1.642) | -5.557 (-1.513) | 2.59 (2.396) |
| 17 | 0.814 (1.971)** | 0.281 (1.061) | 0.007 (0.096) | 0.157 (1.397) | -0.077 (-0.597) | -0.03 (-0.447) | | | | 2.471 (2.31) |
| 18 | 0.788 (1.905)* | 0.317 (1.159) | 0.016 (0.215) | 0.161 (1.386) | -0.091 (-0.686) | -0.032 (-0.48) | -1.963 (-1.438) | | | 2.65 (2.457) |
| 19 | 0.812 (1.956)* | 0.29 (1.071) | 0.017 (0.222) | 0.161 (1.403) | -0.077 (-0.599) | -0.024 (-0.37) | | -8.44 (-1.544) | | 2.642 (2.449) |
| 20 | 0.78 (1.886)* | 0.322 (1.173) | 0.018 (0.229) | 0.165 (1.406) | -0.09 (-0.691) | -0.033 (-0.487) | | | -6.514 (-1.612) | 2.658 (2.465) |
| 21 | 0.812 (1.955)* | 0.29 (1.083) | 0.006 (0.076) | 0.168 (1.521) | -0.064 (-0.506) | -0.011 (-0.172) | -1.699 (-1.337) | -8.506 (-1.609) | | 2.77 (2.545) |
| 22 | 0.776 (1.876)* | 0.31 (1.139) | 0.03 (0.375) | 0.171 (1.431) | -0.081 (-0.631) | -0.036 (-0.521) | -2.025 (-1.479) | | -6.793 (1.662)* | 2.763 (2.538) |
| 23 | 0.819 (1.972)** | 0.284 (1.081) | 0.007 (0.087) | 0.165 (1.501) | -0.063 (-0.501) | -0.017 (-0.271) | | -8.333 (-1.629) | -5.357 (-1.464) | 2.779 (2.554) |
| 24 | 0.808 (1.947)* | 0.283 (1.079) | 0.021 (0.262) | 0.174 (1.543) | -0.058 (-0.474) | -0.014 (-0.23) | -1.684 (-1.341) | -8.47 (-1.635) | -5.656 (-1.517) | 2.886 (2.629) |

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{\beta_{MKTew}}$ | $\hat{\lambda}_{\beta_{FIRMeW}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|
| 1 | 0.856 (1.995)** | 0.24 (0.875) | | | | | | | | 1.674 (1.641) |
| 2 | 0.784 (1.822)* | 0.319 (1.066) | | | | | -0.827 (-1.641) | | | 1.9 (1.836) |
| 3 | 0.797 (1.874)* | 0.274 (0.953) | | | | | | -6.7 (-1.553) | | 1.905 (1.841) |
| 4 | 0.785 (1.822)* | 0.308 (1.038) | | | | | | | -25.904 (1.672)* | 1.864 (1.799) |
| 5 | 0.776 (1.821)* | 0.285 (0.984) | | | | | -0.695 (-1.512) | -6.572 (-1.6) | | 2.064 (1.967) |
| 6 | 0.762 (1.771)* | 0.333 (1.114) | | | | | -0.778 (-1.534) | | -27.203 (1.649)* | 2.042 (1.945) |
| 7 | 0.789 (1.835)* | 0.297 (1.032) | | | | | | -6.707 (-1.571) | -24.659 (-1.614) | 2.037 (1.94) |
| 8 | 0.743 (1.746)* | 0.313 (1.081) | | | | | -0.68 (-1.446) | -6.629 (-1.57) | -23.499 (-1.558) | 2.192 (2.063) |
| 9 | 0.838 (2.031)** | 0.289 (1.076) | -0.002 (-0.028) | 0.142 (1.246) | | | | | | 2.116 (2.019) |
| 10 | 0.775 (1.888)* | 0.354 (1.222) | 0.018 (0.206) | 0.154 (1.27) | | | -0.803 (-1.591) | | | 2.336 (2.207) |
| 11 | 0.806 (1.976)** | 0.316 (1.122) | 0.016 (0.182) | 0.148 (1.256) | | | | -6.797 (-1.56) | | 2.32 (2.191) |
| 12 | 0.783 (1.903)* | 0.344 (1.178) | 0.009 (0.111) | 0.151 (1.276) | | | | | -25.017 (-1.567) | 2.296 (2.167) |
| 13 | 0.799 (1.939)* | 0.316 (1.133) | 0.014 (0.157) | 0.16 (1.339) | | | -0.667 (-1.446) | -6.653 (-1.605) | | 2.465 (2.304) |
| 14 | 0.749 (1.823)* | 0.371 (1.26) | 0.021 (0.239) | 0.153 (1.282) | | | -0.766 (-1.5) | | -26.195 (-1.58) | 2.463 (2.302) |
| 15 | 0.792 (1.918)* | 0.322 (1.144) | 0.028 (0.31) | 0.161 (1.399) | | | | -6.652 (-1.552) | -23.074 (-1.487) | 2.428 (2.267) |
| 16 | 0.769 (1.86)* | 0.337 (1.19) | 0.021 (0.231) | 0.163 (1.394) | | | -0.641 (-1.374) | -6.539 (-1.563) | -21.489 (-1.437) | 2.582 (2.389) |
| 17 | 0.814 (1.971)** | 0.281 (1.061) | 0.007 (0.096) | 0.157 (1.397) | -0.077 (-0.597) | -0.03 (-0.447) | | | | 2.471 (2.31) |
| 18 | 0.759 (1.839)* | 0.343 (1.208) | 0.024 (0.302) | 0.164 (1.379) | -0.093 (-0.698) | -0.041 (-0.589) | -0.832 (-1.616) | | | 2.67 (2.477) |
| 19 | 0.779 (1.893)* | 0.317 (1.134) | 0.023 (0.286) | 0.159 (1.365) | -0.083 (-0.639) | -0.034 (-0.503) | | -7.049 (-1.562) | | 2.661 (2.468) |
| 20 | 0.765 (1.848)* | 0.331 (1.157) | 0.017 (0.222) | 0.166 (1.418) | -0.087 (-0.662) | -0.036 (-0.526) | | | -26.304 (-1.574) | 2.634 (2.441) |
| 21 | 0.779 (1.88)* | 0.319 (1.144) | 0.011 (0.137) | 0.168 (1.448) | -0.068 (-0.527) | -0.025 (-0.379) | -0.698 (-1.443) | -6.966 (-1.597) | | 2.769 (2.544) |
| 22 | 0.739 (1.792)* | 0.354 (1.228) | 0.025 (0.317) | 0.164 (1.416) | -0.094 (-0.712) | -0.044 (-0.657) | -0.782 (-1.512) | | -26.824 (-1.576) | 2.786 (2.561) |
| 23 | 0.772 (1.857)* | 0.319 (1.143) | 0.031 (0.384) | 0.173 (1.535) | -0.076 (-0.595) | -0.027 (-0.416) | | -6.919 (-1.575) | -23.91 (-1.482) | 2.734 (2.509) |
| 24 | 0.754 (1.821)* | 0.335 (1.185) | 0.019 (0.234) | 0.175 (1.543) | -0.071 (-0.546) | -0.026 (-0.405) | -0.675 (-1.372) | -6.987 (-1.583) | -22.619 (-1.402) | 2.879 (2.622) |

1.3.5 Newey-West t-statistics, controls

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | $\hat{\lambda}_{\ln.BM}$ | $\hat{\lambda}_{\ln.ME}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|--------------------------|--------------------------|-------------------------|
| 1 | 0.856 (1.995)** | 0.24 (0.875) | | | | | | | | | | 1.674 (1.641) |
| 2 | 1.496 (2.166)** | 0.271 (0.95) | | | | | -1.631 (-1.231) | | | | -0.121 (1.968)** | 2.489 (2.393) |
| 3 | 0.968 (2.098)** | 0.293 (1.057) | | | | | -1.778 (-1.356) | | | 0.32 (2.889)*** | | 2.209 (2.112) |
| 4 | 1.381 (2.038)** | 0.285 (1.029) | | | | | -1.668 (-1.265) | | | 0.243 (2.461)** | -0.081 (-1.384) | 2.771 (2.642) |
| 5 | 1.342 (2.013)** | 0.256 (0.953) | | | | | | -7.588 (-1.45) | | 0.237 (2.402)** | -0.075 (-1.322) | 2.776 (2.647) |
| 6 | 1.345 (1.992)** | 0.292 (1.051) | | | | | | | -5.2 (-1.316) | 0.245 (2.459)** | -0.078 (-1.348) | 2.786 (2.657) |
| 7 | 1.333 (2.009)** | 0.263 (0.981) | | | | | -1.444 (-1.168) | -7.476 (-1.481) | | 0.245 (2.492)** | -0.075 (-1.337) | 2.906 (2.746) |
| 8 | 1.332 (1.989)** | 0.279 (1.007) | | | | | -1.626 (-1.221) | | -5.19 (-1.316) | 0.246 (2.478)** | -0.075 (-1.306) | 2.899 (2.739) |
| 9 | 1.343 (2.007)** | 0.26 (0.972) | | | | | | -7.527 (-1.497) | -4.345 (-1.192) | 0.247 (2.528)** | -0.076 (-1.342) | 2.914 (2.754) |
| 10 | 1.321 (1.991)** | 0.261 (0.973) | | | | | -1.379 (-1.113) | -7.566 (-1.508) | -4.461 (-1.228) | 0.248 (2.502)** | -0.074 (-1.315) | 3.017 (2.825) |
| 11 | 0.838 (2.031)** | 0.289 (1.076) | -0.002 (-0.028) | 0.142 (1.246) | | | | | | | | 2.116 (2.019) |
| 12 | 1.607 (2.407)** | 0.355 (1.283) | -0.057 (-0.751) | 0.168 (1.449) | | | -1.632 (-1.22) | | | | -0.142 (2.296)** | 2.913 (2.753) |
| 13 | 0.972 (2.186)** | 0.323 (1.188) | -0.005 (-0.063) | 0.097 (0.894) | | | -1.713 (-1.302) | | | 0.313 (2.859)*** | | 2.614 (2.453) |
| 14 | 1.494 (2.286)** | 0.344 (1.251) | -0.045 (-0.625) | 0.129 (1.207) | | | -1.634 (-1.223) | | | 0.214 (2.322)** | -0.103 (1.792)* | 3.142 (2.95) |
| 15 | 1.486 (2.278)** | 0.309 (1.149) | -0.038 (-0.513) | 0.131 (1.214) | | | | -7.638 (-1.435) | | 0.205 (2.218)** | -0.098 (1.724)* | 3.127 (2.935) |
| 16 | 1.472 (2.259)** | 0.343 (1.253) | -0.044 (-0.599) | 0.139 (1.269) | | | | | -5.154 (-1.288) | 0.211 (2.288)** | -0.101 (1.763)* | 3.147 (2.955) |
| 17 | 1.474 (2.272)** | 0.316 (1.188) | -0.041 (-0.561) | 0.14 (1.325) | | | -1.436 (-1.15) | -7.732 (-1.501) | | 0.213 (2.329)** | -0.097 (1.735)* | 3.252 (3.028) |
| 18 | 1.433 (2.216)** | 0.321 (1.187) | -0.027 (-0.346) | 0.151 (1.331) | | | -1.661 (-1.23) | | -5.341 (-1.323) | 0.212 (2.298)** | -0.094 (1.68)* | 3.257 (3.033) |
| 19 | 1.502 (2.312)** | 0.313 (1.186) | -0.047 (-0.641) | 0.141 (1.353) | | | | -7.709 (-1.519) | -4.204 (-1.148) | 0.214 (2.328)** | -0.101 (1.787)* | 3.252 (3.028) |
| 20 | 1.457 (2.251)** | 0.299 (1.146) | -0.026 (-0.338) | 0.153 (1.408) | | | -1.39 (-1.113) | -7.737 (-1.513) | -4.445 (-1.197) | 0.216 (2.333)** | -0.094 (1.697)* | 3.368 (3.112) |
| 21 | 0.814 (1.971)** | 0.281 (1.061) | 0.007 (0.096) | 0.157 (1.397) | -0.077 (-0.597) | -0.03 (-0.447) | | | | | | 2.471 (2.31) |
| 22 | 1.565 (2.372)** | 0.353 (1.282) | -0.048 (-0.677) | 0.173 (1.523) | -0.058 (-0.454) | -0.019 (-0.3) | -1.78 (-1.278) | | | | -0.137 (2.315)** | 3.201 (2.977) |
| 23 | 0.953 (2.136)** | 0.324 (1.199) | -0.001 (-0.012) | 0.111 (1.038) | -0.1 (-0.79) | -0.047 (-0.719) | -1.866 (-1.352) | | | 0.308 (2.93)*** | | 2.938 (2.713) |
| 24 | 1.467 (2.262)** | 0.345 (1.261) | -0.041 (-0.586) | 0.137 (1.289) | -0.074 (-0.61) | -0.031 (-0.487) | -1.765 (-1.267) | | | 0.215 (2.406)** | -0.1 (1.807)* | 3.424 (3.168) |
| 25 | 1.468 (2.259)** | 0.318 (1.184) | -0.037 (-0.53) | 0.135 (1.283) | -0.063 (-0.541) | -0.027 (-0.434) | | -7.759 (-1.425) | | 0.207 (2.305)** | -0.097 (1.764)* | 3.409 (3.153) |
| 26 | 1.457 (2.248)** | 0.346 (1.266) | -0.043 (-0.61) | 0.144 (1.33) | -0.069 (-0.574) | -0.032 (-0.504) | | | -5.321 (-1.3) | 0.213 (2.373)** | -0.099 (1.802)* | 3.428 (3.172) |
| 27 | 1.473 (2.269)** | 0.32 (1.198) | -0.046 (-0.68) | 0.144 (1.421) | -0.051 (-0.443) | -0.011 (-0.196) | -1.522 (-1.174) | -7.855 (-1.491) | | 0.216 (2.414)** | -0.097 (1.779)* | 3.528 (3.24) |
| 28 | 1.433 (2.215)** | 0.332 (1.221) | -0.029 (-0.396) | 0.147 (1.341) | -0.061 (-0.517) | -0.039 (-0.608) | -1.773 (-1.275) | | -5.566 (-1.348) | 0.217 (2.405)** | -0.094 (1.731)* | 3.527 (3.239) |
| 29 | 1.492 (2.292)** | 0.312 (1.189) | -0.05 (-0.729) | 0.144 (1.433) | -0.044 (-0.383) | -0.016 (-0.266) | | -7.666 (-1.506) | -4.313 (-1.164) | 0.216 (2.411)** | -0.099 (1.809)* | 3.529 (3.242) |
| 30 | 1.466 (2.256)** | 0.306 (1.172) | -0.033 (-0.46) | 0.15 (1.441) | -0.04 (-0.357) | -0.019 (-0.328) | -1.464 (-1.149) | -7.734 (-1.504) | -4.562 (-1.213) | 0.221 (2.434)** | -0.095 (1.754)* | 3.64 (3.321) |

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta MktRF}$ | $\hat{\lambda}_{\beta SMB}$ | $\hat{\lambda}_{\beta HML}$ | $\hat{\lambda}_{\beta RMW}$ | $\hat{\lambda}_{\beta CMA}$ | $\hat{\lambda}_{\beta INDeW}$ | $\hat{\lambda}_{\beta MKTeW}$ | $\hat{\lambda}_{\beta FIRMeW}$ | $\hat{\lambda}_{ln.BM}$ | $\hat{\lambda}_{ln.ME}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------|-------------------------|-------------------------|
| 1 | 0.856 (1.995)** | 0.24 (0.875) | | | | | | | | | | 1.674 (1.641) |
| 2 | 1.457 (2.121)** | 0.31 (1.036) | | | | | -0.768 (-1.497) | | | | -0.121 (1.976)** | 2.52 (2.424) |
| 3 | 0.924 (2.003)** | 0.335 (1.147) | | | | | -0.814 (-1.602) | | | 0.315 (2.841)*** | | 2.232 (2.135) |
| 4 | 1.344 (1.992)** | 0.324 (1.112) | | | | | -0.776 (-1.517) | | | 0.237 (2.405)** | -0.082 (-1.405) | 2.797 (2.668) |
| 5 | 1.337 (2.019)** | 0.279 (1.003) | | | | | | -6.312 (-1.468) | | 0.236 (2.393)** | -0.077 (-1.363) | 2.786 (2.657) |
| 6 | 1.356 (2.002)** | 0.308 (1.065) | | | | | | | -23.762 (-1.494) | 0.238 (2.399)** | -0.083 (-1.416) | 2.767 (2.638) |
| 7 | 1.325 (2.014)** | 0.298 (1.052) | | | | | -0.651 (-1.399) | -6.216 (-1.52) | | 0.243 (2.453)** | -0.078 (-1.389) | 2.915 (2.755) |
| 8 | 1.319 (1.948)* | 0.334 (1.141) | | | | | -0.737 (-1.434) | | -25.37 (-1.504) | 0.231 (2.312)** | -0.082 (-1.399) | 2.932 (2.771) |
| 9 | 1.362 (2.05)** | 0.299 (1.065) | | | | | | -6.24 (-1.472) | -22.363 (-1.433) | 0.242 (2.463)** | -0.082 (-1.453) | 2.893 (2.732) |
| 10 | 1.304 (1.976)** | 0.318 (1.119) | | | | | -0.638 (-1.342) | -6.222 (-1.482) | -21.692 (-1.408) | 0.234 (2.36)** | -0.079 (-1.41) | 3.04 (2.847) |
| 11 | 0.838 (2.031)** | 0.289 (1.076) | -0.002 (-0.028) | 0.142 (1.246) | | | | | | | | 2.116 (2.019) |
| 12 | 1.567 (2.36)** | 0.385 (1.324) | -0.047 (-0.592) | 0.176 (1.469) | | | -0.74 (-1.425) | | | | -0.141 (2.287)** | 2.945 (2.784) |
| 13 | 0.932 (2.097)** | 0.356 (1.244) | 0.008 (0.091) | 0.104 (0.928) | | | -0.788 (-1.548) | | | 0.309 (2.83)*** | | 2.639 (2.479) |
| 14 | 1.456 (2.237)** | 0.374 (1.297) | -0.035 (-0.46) | 0.138 (1.242) | | | -0.745 (-1.44) | | | 0.209 (2.298)** | -0.103 (1.794)* | 3.168 (2.976) |
| 15 | 1.467 (2.268)** | 0.336 (1.201) | -0.036 (-0.474) | 0.128 (1.186) | | | | -6.417 (-1.468) | | 0.208 (2.281)** | -0.099 (1.742)* | 3.144 (2.951) |
| 16 | 1.48 (2.252)** | 0.365 (1.248) | -0.041 (-0.56) | 0.138 (1.276) | | | | | -22.367 (-1.347) | 0.21 (2.307)** | -0.106 (1.814)* | 3.135 (2.943) |
| 17 | 1.461 (2.261)** | 0.342 (1.228) | -0.038 (-0.516) | 0.141 (1.299) | | | -0.616 (-1.31) | -6.28 (-1.517) | | 0.21 (2.287)** | -0.1 (1.779)* | 3.253 (3.029) |
| 18 | 1.424 (2.18)** | 0.391 (1.33) | -0.029 (-0.39) | 0.138 (1.269) | | | -0.71 (-1.359) | | -23.768 (-1.389) | 0.209 (2.305)** | -0.102 (1.764)* | 3.294 (3.07) |
| 19 | 1.477 (2.27)** | 0.344 (1.221) | -0.026 (-0.345) | 0.144 (1.376) | | | | -6.206 (-1.448) | -20.535 (-1.282) | 0.211 (2.294)** | -0.103 (1.814)* | 3.228 (3.004) |
| 20 | 1.429 (2.203)** | 0.362 (1.275) | -0.03 (-0.391) | 0.145 (1.361) | | | -0.59 (-1.239) | -6.132 (-1.468) | -19.291 (-1.254) | 0.209 (2.285)** | -0.099 (1.762)* | 3.371 (3.115) |
| 21 | 0.814 (1.971)** | 0.281 (1.061) | 0.007 (0.096) | 0.157 (1.397) | -0.077 (-0.597) | -0.03 (-0.447) | | | | | | 2.471 (2.31) |
| 22 | 1.538 (2.339)** | 0.376 (1.319) | -0.043 (-0.587) | 0.178 (1.524) | -0.059 (-0.459) | -0.027 (-0.409) | -0.75 (-1.426) | | | | -0.137 (2.304)** | 3.222 (2.998) |
| 23 | 0.923 (2.075)** | 0.349 (1.246) | 0.007 (0.087) | 0.114 (1.042) | -0.103 (-0.808) | -0.056 (-0.833) | -0.799 (-1.539) | | | 0.305 (2.91)*** | | 2.954 (2.73) |
| 24 | 1.44 (2.227)** | 0.368 (1.3) | -0.035 (-0.49) | 0.141 (1.3) | -0.076 (-0.619) | -0.039 (-0.6) | -0.748 (-1.428) | | | 0.212 (2.39)** | -0.1 (1.803)* | 3.442 (3.186) |
| 25 | 1.447 (2.244)** | 0.344 (1.233) | -0.034 (-0.484) | 0.132 (1.244) | -0.07 (-0.586) | -0.035 (-0.55) | | -6.571 (-1.457) | | 0.212 (2.372)** | -0.097 (1.772)* | 3.425 (3.169) |
| 26 | 1.456 (2.228)** | 0.355 (1.244) | -0.04 (-0.575) | 0.145 (1.361) | -0.071 (-0.586) | -0.032 (-0.496) | | | -22.776 (-1.33) | 0.212 (2.396)** | -0.101 (1.808)* | 3.413 (3.157) |
| 27 | 1.448 (2.243)** | 0.347 (1.245) | -0.047 (-0.671) | 0.146 (1.381) | -0.053 (-0.447) | -0.025 (-0.392) | -0.628 (-1.276) | -6.54 (-1.505) | | 0.214 (2.385)** | -0.098 (1.787)* | 3.523 (3.236) |
| 28 | 1.414 (2.183)** | 0.379 (1.316) | -0.032 (-0.456) | 0.143 (1.354) | -0.077 (-0.634) | -0.041 (-0.645) | -0.7 (-1.33) | | -23.59 (-1.357) | 0.212 (2.392)** | -0.099 (1.772)* | 3.557 (3.27) |
| 29 | 1.458 (2.241)** | 0.343 (1.231) | -0.029 (-0.4) | 0.151 (1.475) | -0.061 (-0.518) | -0.025 (-0.4) | | -6.431 (-1.465) | -20.729 (-1.251) | 0.215 (2.387)** | -0.1 (1.809)* | 3.496 (3.209) |
| 30 | 1.416 (2.189)** | 0.362 (1.278) | -0.037 (-0.522) | 0.154 (1.489) | -0.057 (-0.479) | -0.025 (-0.404) | -0.607 (-1.212) | -6.557 (-1.489) | -20.004 (-1.214) | 0.214 (2.382)** | -0.097 (1.753)* | 3.635 (3.316) |

2 Testing hypothesis 2, $\lambda_{\beta_{IIND}} = 0$

As I explained previously, herewith I only include the Newey-West t-statistics

2.1 SIC-49 industries

2.1.1 Newey-West t-statistics

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{IINDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{AIFIRMvw}}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------------------|---------------------------------|------------------------------------|-------------------------|
| 1 | 0.896 (4.48)*** | -0.104 (-0.817) | | | | | | | | 1.595 (1.569) |
| 2 | 0.882 (4.388)*** | -0.098 (-0.8) | | | | | -0.462 (2.164)** | | | 1.699 (1.645) |
| 3 | 0.831 (4.168)*** | -0.074 (-0.569) | | | | | | -3.62 (1.977)** | | 1.918 (1.865) |
| 4 | 0.879 (4.397)*** | -0.1 (-0.81) | | | | | | | -1.82 (2.131)** | 1.777 (1.723) |
| 5 | 0.901 (4.486)*** | -0.128 (-1.106) | | | | | -0.308 (1.822)* | -1.928 (2.114)** | | 1.909 (1.828) |
| 6 | 0.898 (4.45)*** | -0.116 (-1.011) | | | | | -0.254 (1.951)* | | -1.245 (2.212)** | 1.762 (1.681) |
| 7 | 0.895 (4.473)*** | -0.124 (-1.078) | | | | | | -1.863 (1.981)** | -0.844 (-1.538) | 2.018 (1.938) |
| 8 | 0.906 (4.485)*** | -0.132 (-1.215) | | | | | -0.147 (-1.467) | -1.395 (2.072)** | -0.64 (-1.61) | 1.994 (1.887) |
| 9 | 0.827 (4.3)*** | -0.083 (-0.762) | -0.014 (-0.194) | 0.147 (2.34)** | | | | | | 2.753 (2.674) |
| 10 | 0.827 (4.281)*** | -0.075 (-0.73) | -0.016 (-0.217) | 0.14 (2.276)** | | | -0.425 (2.137)** | | | 2.817 (2.711) |
| 11 | 0.78 (4.008)*** | -0.042 (-0.372) | -0.002 (-0.029) | 0.15 (2.382)** | | | | -3.619 (1.987)** | | 2.938 (2.832) |
| 12 | 0.826 (4.308)*** | -0.082 (-0.791) | -0.015 (-0.201) | 0.139 (2.252)** | | | | | -1.535 (1.979)** | 2.859 (2.753) |
| 13 | 0.845 (4.331)*** | -0.091 (-0.941) | -0.019 (-0.267) | 0.137 (2.256)** | | | -0.282 (1.732)* | -1.99 (2.196)** | | 2.92 (2.788) |
| 14 | 0.849 (4.396)*** | -0.097 (-1.012) | -0.021 (-0.285) | 0.133 (2.177)** | | | -0.219 (1.783)* | | -1.076 (2.128)** | 2.846 (2.713) |
| 15 | 0.842 (4.317)*** | -0.095 (-0.983) | -0.02 (-0.278) | 0.134 (2.233)** | | | | -1.902 (2.076)** | -0.871 (1.665)* | 2.944 (2.812) |
| 16 | 0.856 (4.36)*** | -0.105 (-1.138) | -0.025 (-0.348) | 0.129 (2.154)** | | | -0.151 (-1.489) | -1.472 (2.215)** | -0.679 (1.764)* | 2.942 (2.784) |
| 17 | 0.811 (4.206)*** | -0.068 (-0.632) | -0.012 (-0.166) | 0.142 (2.318)** | -0.009 (-0.188) | 0.077 (1.802)* | | | | 3.098 (2.966) |
| 18 | 0.818 (4.229)*** | -0.068 (-0.67) | -0.012 (-0.168) | 0.137 (2.297)** | -0.013 (-0.293) | 0.077 (1.831)* | -0.428 (2.132)** | | | 3.134 (2.976) |
| 19 | 0.767 (3.94)*** | -0.031 (-0.272) | -0.001 (-0.011) | 0.148 (2.415)** | -0.014 (-0.293) | 0.072 (1.709)* | | -3.681 (1.985)** | | 3.26 (3.102) |
| 20 | 0.818 (4.263)*** | -0.075 (-0.73) | -0.011 (-0.16) | 0.139 (2.339)** | -0.012 (-0.278) | 0.078 (1.873)* | | | -1.473 (1.907)* | 3.16 (3.001) |
| 21 | 0.837 (4.285)*** | -0.084 (-0.879) | -0.016 (-0.234) | 0.134 (2.285)** | -0.007 (-0.152) | 0.079 (1.948)* | -0.286 (1.733)* | -2.001 (2.201)** | | 3.217 (3.032) |
| 22 | 0.84 (4.342)*** | -0.091 (-0.957) | -0.016 (-0.228) | 0.134 (2.274)** | -0.012 (-0.289) | 0.081 (1.978)** | | | -1.127 (2.213)** | 3.133 (2.948) |
| 23 | 0.839 (4.297)*** | -0.092 (-0.958) | -0.019 (-0.271) | 0.133 (2.309)** | -0.004 (-0.103) | 0.077 (1.92)* | | -1.857 (2.034)** | -0.851 (-1.625) | 3.234 (3.049) |
| 24 | 0.851 (4.323)*** | -0.101 (-1.116) | -0.022 (-0.311) | 0.128 (2.242)** | -0.005 (-0.129) | 0.081 (2.032)** | -0.145 (-1.434) | -1.484 (2.199)** | -0.688 (1.77)* | 3.216 (3.005) |

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{\beta_{MKTew}}$ | $\hat{\lambda}_{\beta_{AIFIRMew}}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|------------------------------------|-------------------------|
| 1 | 0.896 (4.48)*** | -0.104 (-0.817) | | | | | | | | 1.595 (1.569) |
| 2 | 0.887 (4.42)*** | -0.091 (-0.721) | | | | | -0.243 (1.764)* | | | 1.685 (1.631) |
| 3 | 0.834 (4.14)*** | -0.068 (-0.527) | | | | | | -2.438 (1.908)* | | 1.873 (1.819) |
| 4 | 0.863 (4.336)*** | -0.055 (-0.431) | | | | | | | -14.016 (2.579)** | 1.765 (1.712) |
| 5 | 0.893 (4.401)*** | -0.108 (-0.907) | | | | | -0.117 (-1.601) | -1.21 (1.709)* | | 1.894 (1.814) |
| 6 | 0.915 (4.522)*** | -0.101 (-0.886) | | | | | -0.088 (-1.613) | | -8.065 (2.91)*** | 1.756 (1.675) |
| 7 | 0.862 (4.279)*** | -0.064 (-0.531) | | | | | | -1.823 (1.997)** | -12.088 (3.159)*** | 2.039 (1.959) |
| 8 | 0.917 (4.479)*** | -0.107 (-0.961) | | | | | -0.064 (-1.39) | -0.764 (-1.526) | -6.958 (3.172)*** | 1.99 (1.883) |
| 9 | 0.827 (4.3)*** | -0.083 (-0.762) | -0.014 (-0.194) | 0.147 (2.34)** | | | | | | 2.753 (2.674) |
| 10 | 0.82 (4.277)*** | -0.069 (-0.651) | -0.017 (-0.237) | 0.14 (2.21)** | | | -0.22 (1.754)* | | | 2.789 (2.683) |
| 11 | 0.785 (4.05)*** | -0.043 (-0.386) | -0.004 (-0.051) | 0.146 (2.341)** | | | | -2.449 (1.969)** | | 2.927 (2.821) |
| 12 | 0.799 (4.187)*** | -0.044 (-0.403) | -0.009 (-0.123) | 0.139 (2.187)** | | | | | -13.781 (2.79)*** | 2.865 (2.759) |
| 13 | 0.834 (4.276)*** | -0.083 (-0.836) | -0.018 (-0.248) | 0.131 (2.124)** | | | -0.095 (-1.458) | -1.199 (1.887)* | | 2.91 (2.778) |
| 14 | 0.849 (4.4)*** | -0.087 (-0.924) | -0.018 (-0.253) | 0.131 (2.099)** | | | -0.07 (-1.38) | | -8.297 (3.674)*** | 2.827 (2.695) |
| 15 | 0.803 (4.128)*** | -0.045 (-0.443) | -0.01 (-0.128) | 0.135 (2.17)** | | | | -1.863 (2.178)** | -11.905 (3.421)*** | 3.018 (2.886) |
| 16 | 0.855 (4.349)*** | -0.089 (-0.974) | -0.021 (-0.289) | 0.127 (2.075)** | | | -0.044 (-1.069) | -0.79 (1.776)* | -6.862 (3.66)*** | 2.962 (2.803) |
| 17 | 0.811 (4.206)*** | -0.068 (-0.632) | -0.012 (-0.166) | 0.142 (2.318)** | -0.009 (-0.188) | 0.077 (1.802)* | | | | 3.098 (2.966) |
| 18 | 0.809 (4.21)*** | -0.061 (-0.587) | -0.014 (-0.194) | 0.139 (2.265)** | -0.009 (-0.211) | 0.075 (1.765)* | -0.206 (-1.628) | | | 3.111 (2.952) |
| 19 | 0.772 (3.965)*** | -0.031 (-0.281) | -0.001 (-0.02) | 0.144 (2.358)** | -0.012 (-0.251) | 0.071 (1.668)* | | -2.526 (1.978)** | | 3.253 (3.094) |
| 20 | 0.785 (4.103)*** | -0.032 (-0.29) | -0.008 (-0.113) | 0.137 (2.208)** | -0.019 (-0.414) | 0.078 (1.823)* | | | -13.577 (2.656)*** | 3.175 (3.017) |
| 21 | 0.825 (4.225)*** | -0.076 (-0.784) | -0.015 (-0.217) | 0.13 (2.169)** | -0.003 (-0.061) | 0.076 (1.808)* | -0.089 (-1.361) | -1.218 (1.928)* | | 3.203 (3.018) |
| 22 | 0.838 (4.346)*** | -0.078 (-0.837) | -0.017 (-0.245) | 0.128 (2.135)** | -0.009 (-0.212) | 0.079 (1.889)* | -0.067 (-1.285) | | -7.985 (3.502)*** | 3.118 (2.933) |
| 23 | 0.794 (4.074)*** | -0.037 (-0.358) | -0.011 (-0.146) | 0.132 (2.175)** | -0.013 (-0.288) | 0.075 (1.798)* | | -1.89 (2.191)** | -11.221 (3.207)*** | 3.295 (3.11) |
| 24 | 0.847 (4.309)*** | -0.084 (-0.933) | -0.02 (-0.278) | 0.125 (2.103)** | -0.005 (-0.126) | 0.078 (1.898)* | -0.039 (-0.939) | -0.801 (1.843)* | -6.377 (3.44)*** | 3.225 (3.014) |

2.1.2 Newey-West t-statistics, controls

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{IINDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{AIFIRMvw}}$ | $\hat{\lambda}_{\text{ln.BM}}$ | $\hat{\lambda}_{\text{ln.ME}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------------------|---------------------------------|------------------------------------|--------------------------------|--------------------------------|-------------------------|
| 1 | 0.865 (4.545)*** | -0.049 (-0.387) | | | | | | | | | | 1.596 (1.557) |
| 2 | 1.32 (4.033)*** | -0.038 (-0.309) | | | | | -0.396 (2.081)** | | | | -0.106 (2.691)*** | 2.926 (2.809) |
| 3 | 0.886 (4.519)*** | 0.015 (0.127) | | | | | -0.442 (2.208)** | | | 0.343 (5.354)*** | | 2.244 (2.126) |
| 4 | 1.197 (3.654)*** | 0.017 (0.154) | | | | | -0.428 (2.217)** | | | 0.26 (3.757)*** | -0.074 (1.755)* | 3.368 (3.213) |
| 5 | 1.142 (3.55)*** | 0.031 (0.269) | | | | | | -2.877 (2.053)** | | 0.266 (3.818)*** | -0.069 (1.669)* | 3.47 (3.315) |
| 6 | 1.194 (3.633)*** | 0.015 (0.136) | | | | | | | -1.697 (2.114)** | 0.26 (3.785)*** | -0.074 (1.752)* | 3.431 (3.276) |
| 7 | 1.206 (3.74)*** | -0.009 (-0.081) | | | | | -0.296 (1.941)* | -1.789 (2.051)** | | 0.261 (3.743)*** | -0.071 (1.73)* | 3.501 (3.308) |
| 8 | 1.208 (3.642)*** | -0.002 (-0.02) | | | | | -0.255 (2.176)** | | -1.261 (2.443)** | 0.258 (3.732)*** | -0.073 (1.716)* | 3.451 (3.258) |
| 9 | 1.223 (3.768)*** | -0.009 (-0.089) | | | | | | -1.668 (2.055)** | -0.941 (1.848)* | 0.256 (3.733)*** | -0.074 (1.81)* | 3.545 (3.352) |
| 10 | 1.232 (3.77)*** | -0.022 (-0.222) | | | | | -0.17 (1.852)* | -1.204 (2.234)** | -0.789 (2.127)** | 0.255 (3.686)*** | -0.073 (1.778)* | 3.577 (3.345) |
| 11 | 0.801 (4.346)*** | -0.045 (-0.418) | 0.021 (0.283) | 0.153 (2.57)** | | | | | | | | 2.88 (2.764) |
| 12 | 1.354 (4.494)*** | -0.002 (-0.02) | -0.061 (-0.977) | 0.134 (2.299)** | | | -0.336 (2.01)** | | | | -0.114 (3.264)*** | 3.693 (3.501) |
| 13 | 0.869 (4.524)*** | -0.006 (-0.064) | 0.01 (0.141) | 0.077 (1.447) | | | -0.365 (2.107)** | | | 0.302 (5.021)*** | | 3.337 (3.144) |
| 14 | 1.24 (4.119)*** | 0.026 (0.262) | -0.036 (-0.617) | 0.075 (1.458) | | | -0.355 (2.074)** | | | 0.23 (3.618)*** | -0.083 (2.271)** | 4.023 (3.793) |
| 15 | 1.189 (3.974)*** | 0.051 (0.484) | -0.02 (-0.341) | 0.079 (1.485) | | | | -2.773 (2.001)** | | 0.234 (3.687)*** | -0.081 (2.219)** | 4.124 (3.894) |
| 16 | 1.226 (4.08)*** | 0.031 (0.297) | -0.031 (-0.531) | 0.076 (1.46) | | | | | -1.464 (1.911)* | 0.231 (3.671)*** | -0.083 (2.259)** | 4.055 (3.825) |
| 17 | 1.243 (4.137)*** | 0.012 (0.124) | -0.039 (-0.669) | 0.077 (1.521) | | | -0.256 (1.674)* | -1.81 (1.942)* | | 0.229 (3.592)*** | -0.081 (2.236)** | 4.135 (3.866) |
| 18 | 1.24 (4.109)*** | 0.008 (0.087) | -0.034 (-0.585) | 0.067 (1.335) | | | -0.212 (1.973)** | | -1.087 (2.348)** | 0.231 (3.65)*** | -0.08 (2.192)** | 4.059 (3.79) |
| 19 | 1.248 (4.143)*** | 0.009 (0.093) | -0.038 (-0.664) | 0.077 (1.541) | | | | -1.764 (1.968)** | -1.002 (1.927)* | 0.229 (3.644)*** | -0.082 (2.257)** | 4.149 (3.88) |
| 20 | 1.251 (4.141)*** | -0.005 (-0.055) | -0.04 (-0.702) | 0.069 (1.406) | | | -0.171 (1.748)* | -1.28 (2.205)** | -0.824 (2.248)** | 0.229 (3.605)*** | -0.08 (2.191)** | 4.155 (3.849) |
| 21 | 0.792 (4.279)*** | -0.039 (-0.365) | 0.022 (0.309) | 0.151 (2.587)** | -0.009 (-0.2) | 0.067 (1.578) | | | | | | 3.29 (3.097) |
| 22 | 1.361 (4.504)*** | -0.001 (-0.01) | -0.062 (-1.052) | 0.126 (2.226)** | 0.012 (0.3) | 0.058 (1.368) | -0.309 (1.887)* | | | | -0.115 (3.318)*** | 4.044 (3.776) |
| 23 | 0.873 (4.535)*** | -0.007 (-0.076) | 0.01 (0.144) | 0.074 (1.428) | 0.003 (0.071) | 0.032 (0.806) | -0.344 (2.02)** | | | 0.304 (5.109)*** | | 3.706 (3.436) |
| 24 | 1.25 (4.128)*** | 0.027 (0.278) | -0.036 (-0.656) | 0.068 (1.353) | 0.017 (0.444) | 0.029 (0.738) | -0.326 (1.934)* | | | 0.233 (3.661)*** | -0.084 (2.301)** | 4.368 (4.062) |
| 25 | 1.194 (3.968)*** | 0.059 (0.557) | -0.021 (-0.367) | 0.072 (1.398) | 0.017 (0.438) | 0.023 (0.57) | | -2.876 (1.956)* | | 0.237 (3.736)*** | -0.082 (2.261)** | 4.468 (4.162) |
| 26 | 1.234 (4.088)*** | 0.031 (0.31) | -0.029 (-0.521) | 0.071 (1.415) | 0.017 (0.451) | 0.029 (0.757) | | | -1.457 (1.967)** | 0.234 (3.7)*** | -0.084 (2.284)** | 4.376 (4.07) |
| 27 | 1.251 (4.127)*** | 0.013 (0.136) | -0.038 (-0.685) | 0.069 (1.412) | 0.017 (0.601) | 0.033 (0.869) | -0.246 (-1.591) | -1.805 (1.914)* | | 0.232 (3.635)*** | -0.082 (2.259)** | 4.455 (4.111) |
| 28 | 1.253 (4.13)*** | 0.007 (0.076) | -0.033 (-0.605) | 0.061 (1.254) | 0.014 (0.397) | 0.031 (0.828) | -0.2 (1.856)* | | -1.017 (2.208)** | 0.235 (3.71)*** | -0.081 (2.221)** | 4.369 (4.025) |
| 29 | 1.253 (4.137)*** | 0.013 (0.141) | -0.034 (-0.622) | 0.071 (1.476) | 0.021 (0.601) | 0.033 (0.869) | | -1.863 (1.945)* | -1.081 (2.02)** | 0.231 (3.665)*** | -0.083 (2.291)** | 4.458 (4.114) |
| 30 | 1.263 (4.151)*** | -0.004 (-0.047) | -0.037 (-0.693) | 0.061 (1.292) | 0.017 (0.493) | 0.033 (0.916) | -0.168 (1.697)* | -1.33 (2.11)** | -0.8 (2.125)** | 0.232 (3.66)*** | -0.081 (2.228)** | 4.451 (4.069) |

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{\beta_{MKTEw}}$ | $\hat{\lambda}_{\beta_{AIFIRMEw}}$ | $\hat{\lambda}_{ln.BM}$ | $\hat{\lambda}_{ln.ME}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|
| 1 | 0.865 (4.545)*** | -0.049 (-0.387) | | | | | | | | | | 1.596 (1.557) |
| 2 | 1.334 (4.067)*** | -0.037 (-0.297) | | | | | -0.202 (1.651)* | | | | -0.108 (2.725)*** | 2.9 (2.784) |
| 3 | 0.894 (4.572)*** | 0.015 (0.131) | | | | | -0.204 (1.653)* | | | 0.342 (5.434)*** | | 2.208 (2.09) |
| 4 | 1.216 (3.696)*** | 0.017 (0.152) | | | | | -0.202 (1.656)* | | | 0.258 (3.761)*** | -0.076 (1.804)* | 3.345 (3.19) |
| 5 | 1.157 (3.568)*** | 0.03 (0.261) | | | | | | -1.949 (2.033)** | | 0.257 (3.726)*** | -0.071 (1.708)* | 3.443 (3.288) |
| 6 | 1.197 (3.64)*** | 0.048 (0.41) | | | | | | | -12.696 (2.502)** | 0.264 (3.802)*** | -0.077 (1.801)* | 3.445 (3.29) |
| 7 | 1.205 (3.675)*** | 0.008 (0.078) | | | | | -0.109 (-1.589) | -1.128 (1.882)* | | 0.258 (3.75)*** | -0.074 (1.763)* | 3.478 (3.285) |
| 8 | 1.23 (3.687)*** | 0.015 (0.146) | | | | | -0.089 (-1.543) | | -7.503 (2.799)*** | 0.26 (3.745)*** | -0.076 (1.792)* | 3.46 (3.267) |
| 9 | 1.198 (3.674)*** | 0.037 (0.334) | | | | | | -1.429 (1.961)* | -8.898 (2.623)*** | 0.267 (3.859)*** | -0.075 (1.809)* | 3.608 (3.416) |
| 10 | 1.236 (3.72)*** | 0.012 (0.12) | | | | | -0.067 (-1.452) | -0.767 (1.786)* | -5.524 (2.521)** | 0.262 (3.776)*** | -0.076 (1.829)* | 3.614 (3.382) |
| 11 | 0.801 (4.346)*** | -0.045 (-0.418) | 0.021 (0.283) | 0.153 (2.57)** | | | | | | | | 2.88 (2.764) |
| 12 | 1.338 (4.448)*** | 0.006 (0.055) | -0.058 (-0.94) | 0.129 (2.121)** | | | -0.198 (-1.584) | | | | -0.113 (3.198)*** | 3.659 (3.466) |
| 13 | 0.86 (4.509)*** | 0.003 (0.029) | 0.01 (0.139) | 0.072 (1.296) | | | -0.201 (-1.63) | | | 0.303 (5.078)*** | | 3.292 (3.099) |
| 14 | 1.223 (4.069)*** | 0.034 (0.325) | -0.033 (-0.566) | 0.07 (1.304) | | | -0.197 (-1.589) | | | 0.232 (3.69)*** | -0.082 (2.208)** | 3.988 (3.757) |
| 15 | 1.204 (4.028)*** | 0.039 (0.375) | -0.023 (-0.39) | 0.074 (1.41) | | | | -1.804 (2.039)** | | 0.231 (3.653)*** | -0.081 (2.218)** | 4.108 (3.878) |
| 16 | 1.196 (3.97)*** | 0.066 (0.609) | -0.024 (-0.412) | 0.073 (1.363) | | | | | -12.262 (2.575)** | 0.238 (3.741)*** | -0.082 (2.192)** | 4.093 (3.863) |
| 17 | 1.236 (4.072)*** | 0.012 (0.12) | -0.035 (-0.612) | 0.061 (1.179) | | | -0.084 (-1.496) | -0.981 (1.944)* | | 0.233 (3.7)*** | -0.08 (2.161)** | 4.111 (3.843) |
| 18 | 1.23 (4.033)*** | 0.026 (0.276) | -0.028 (-0.505) | 0.063 (1.22) | | | -0.075 (-1.37) | | -7.485 (3.096)*** | 0.235 (3.708)*** | -0.08 (2.174)** | 4.07 (3.802) |
| 19 | 1.224 (4.037)*** | 0.046 (0.46) | -0.029 (-0.514) | 0.065 (1.274) | | | | -1.31 (1.943)* | -8.494 (2.798)*** | 0.237 (3.75)*** | -0.083 (2.245)** | 4.253 (3.985) |
| 20 | 1.248 (4.048)*** | 0.014 (0.157) | -0.032 (-0.577) | 0.059 (1.19) | | | -0.043 (-1.12) | -0.69 (1.863)* | -5.418 (2.828)*** | 0.235 (3.718)*** | -0.081 (2.188)** | 4.223 (3.916) |
| 21 | 0.792 (4.279)*** | -0.039 (-0.365) | 0.022 (0.309) | 0.151 (2.587)** | -0.009 (-0.2) | 0.067 (1.578) | | | | | | 3.29 (3.097) |
| 22 | 1.337 (4.438)*** | 0.015 (0.142) | -0.057 (-0.972) | 0.123 (2.052)** | 0.012 (0.286) | 0.052 (1.196) | -0.193 (-1.525) | | | | -0.114 (3.273)*** | 4.018 (3.749) |
| 23 | 0.855 (4.477)*** | 0.01 (0.101) | 0.012 (0.173) | 0.069 (1.267) | 0.005 (0.124) | 0.025 (0.613) | -0.197 (-1.562) | | | 0.307 (5.188)*** | | 3.669 (3.4) |
| 24 | 1.225 (4.056)*** | 0.043 (0.423) | -0.031 (-0.56) | 0.063 (1.198) | 0.018 (0.472) | 0.022 (0.547) | -0.192 (-1.523) | | | 0.237 (3.756)*** | -0.083 (2.252)** | 4.342 (4.036) |
| 25 | 1.208 (4.009)*** | 0.049 (0.474) | -0.024 (-0.422) | 0.066 (1.296) | 0.018 (0.467) | 0.021 (0.523) | | -1.87 (2.052)** | | 0.237 (3.753)*** | -0.082 (2.256)** | 4.462 (4.156) |
| 26 | 1.198 (3.96)*** | 0.072 (0.674) | -0.025 (-0.439) | 0.063 (1.208) | 0.01 (0.247) | 0.026 (0.642) | | | -12.121 (2.514)** | 0.243 (3.821)*** | -0.082 (2.215)** | 4.423 (4.117) |
| 27 | 1.237 (4.054)*** | 0.02 (0.215) | -0.033 (-0.609) | 0.052 (1.031) | 0.024 (0.66) | 0.022 (0.555) | -0.085 (-1.464) | -1.027 (1.985)** | | 0.238 (3.767)*** | -0.081 (2.199)** | 4.444 (4.1) |
| 28 | 1.231 (4.015)*** | 0.031 (0.342) | -0.028 (-0.509) | 0.052 (1.041) | 0.017 (0.479) | 0.026 (0.671) | -0.072 (-1.347) | | -6.92 (2.879)*** | 0.24 (3.773)*** | -0.08 (2.194)** | 4.382 (4.037) |
| 29 | 1.218 (4)*** | 0.055 (0.562) | -0.027 (-0.488) | 0.054 (1.075) | 0.015 (0.408) | 0.025 (0.636) | | -1.369 (2.048)** | -8.182 (2.735)*** | 0.243 (3.855)*** | -0.082 (2.253)** | 4.548 (4.205) |
| 30 | 1.246 (4.027)*** | 0.02 (0.225) | -0.029 (-0.539) | 0.048 (1.005) | 0.02 (0.579) | 0.026 (0.708) | -0.045 (-1.143) | -0.708 (1.961)* | -5.101 (2.665)*** | 0.241 (3.799)*** | -0.081 (2.204)** | 4.509 (4.127) |

2.2 SIC-10 divisions

2.2.1 Newey-West t-statistics

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{IINDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{AIFIRMvw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------------------|---------------------------------|------------------------------------|-------------------------|
| 1 | 0.905 (4.528)*** | -0.111 (-0.874) | | | | | | | | 1.604 (1.577) |
| 2 | 0.905 (4.464)*** | -0.117 (-0.976) | | | | | -0.085 (1.94)* | | | 1.759 (1.705) |
| 3 | 0.841 (4.215)*** | -0.082 (-0.627) | | | | | | -3.575 (1.953)* | | 1.929 (1.875) |
| 4 | 0.872 (4.348)*** | -0.097 (-0.766) | | | | | | | -2.975 (2.437)** | 1.842 (1.788) |
| 5 | 0.908 (4.56)*** | -0.14 (-1.237) | | | | | -0.054 (1.656)* | -1.757 (2.141)** | | 2.034 (1.953) |
| 6 | 0.905 (4.478)*** | -0.127 (-1.11) | | | | | -0.059 (1.854)* | | -1.98 (2.692)*** | 1.892 (1.812) |
| 7 | 0.898 (4.514)*** | -0.133 (-1.133) | | | | | | -2.02 (1.863)* | -1.833 (2.175)** | 2.119 (2.038) |
| 8 | 0.904 (4.525)*** | -0.139 (-1.269) | | | | | -0.043 (-1.601) | -1.592 (2.136)** | -1.429 (2.596)*** | 2.161 (2.054) |
| 9 | 0.837 (4.351)*** | -0.09 (-0.824) | -0.017 (-0.229) | 0.146 (2.324)** | | | | | | 2.765 (2.685) |
| 10 | 0.84 (4.337)*** | -0.089 (-0.884) | -0.016 (-0.215) | 0.135 (2.178)** | | | -0.075 (1.788)* | | | 2.844 (2.737) |
| 11 | 0.79 (4.06)*** | -0.049 (-0.439) | -0.005 (-0.066) | 0.149 (2.368)** | | | | -3.527 (1.936)* | | 2.951 (2.844) |
| 12 | 0.818 (4.257)*** | -0.074 (-0.681) | -0.008 (-0.113) | 0.138 (2.225)** | | | | | -2.506 (2.247)** | 2.919 (2.812) |
| 13 | 0.859 (4.394)*** | -0.104 (-1.099) | -0.021 (-0.299) | 0.134 (2.208)** | | | -0.047 (-1.553) | -1.713 (2.243)** | | 2.955 (2.822) |
| 14 | 0.845 (4.352)*** | -0.093 (-0.971) | -0.017 (-0.235) | 0.13 (2.113)** | -0.006 (-0.138) | 0.075 (1.76)* | | | -1.773 (2.713)*** | 2.921 (2.788) |
| 15 | 0.842 (4.341)*** | -0.096 (-0.953) | -0.013 (-0.184) | 0.133 (2.219)** | | | | -2.06 (1.89)* | -1.707 (2.075)** | 3.028 (2.895) |
| 16 | 0.857 (4.391)*** | -0.103 (-1.108) | -0.022 (-0.314) | 0.126 (2.103)** | | | -0.043 (1.683)* | -1.57 (2.189)** | -1.331 (2.544)** | 3.036 (2.876) |
| 17 | 0.819 (4.253)*** | -0.075 (-0.686) | -0.014 (-0.197) | 0.141 (2.292)** | -0.006 (-0.138) | 0.075 (1.76)* | | | | 3.112 (2.98) |
| 18 | 0.832 (4.303)*** | -0.083 (-0.841) | -0.011 (-0.15) | 0.132 (2.189)** | -0.008 (-0.172) | 0.075 (1.768)* | -0.069 (1.683)* | | | 3.157 (2.998) |
| 19 | 0.777 (3.988)*** | -0.037 (-0.329) | -0.003 (-0.048) | 0.147 (2.392)** | -0.012 (-0.251) | 0.07 (1.67)* | | -3.589 (1.933)* | | 3.276 (3.117) |
| 20 | 0.81 (4.214)*** | -0.067 (-0.628) | -0.005 (-0.075) | 0.138 (2.303)** | -0.013 (-0.292) | 0.072 (1.73)* | | | -2.434 (2.246)** | 3.227 (3.068) |
| 21 | 0.851 (4.354)*** | -0.098 (-1.048) | -0.018 (-0.259) | 0.13 (2.207)** | 0 (-0.003) | 0.076 (1.849)* | -0.041 (-1.369) | -1.694 (2.2)** | | 3.254 (3.068) |
| 22 | 0.841 (4.332)*** | -0.089 (-0.935) | -0.013 (-0.186) | 0.129 (2.175)** | -0.007 (-0.18) | 0.073 (1.775)* | -0.051 (1.717)* | | -1.731 (2.713)*** | 3.207 (3.021) |
| 23 | 0.835 (4.31)*** | -0.089 (-0.899) | -0.012 (-0.164) | 0.131 (2.267)** | -0.005 (-0.13) | 0.073 (1.816)* | | -2.002 (1.899)* | -1.648 (2.072)** | 3.317 (3.132) |
| 24 | 0.853 (4.366)*** | -0.099 (-1.07) | -0.02 (-0.285) | 0.123 (2.144)** | -0.002 (-0.041) | 0.074 (1.859)* | -0.038 (-1.525) | -1.536 (2.175)** | -1.32 (2.58)** | 3.307 (3.095) |

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{IINDew}}$ | $\hat{\lambda}_{\beta_{MKTew}}$ | $\hat{\lambda}_{\beta_{AIFIRMEw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------------------|---------------------------------|------------------------------------|-------------------------|
| 1 | 0.905 (4.528)*** | -0.111 (-0.874) | | | | | | | | 1.604 (1.577) |
| 2 | 0.891 (4.468)*** | -0.101 (-0.815) | | | | | -0.066 (1.768)* | | | 1.775 (1.721) |
| 3 | 0.844 (4.187)*** | -0.076 (-0.583) | | | | | | -2.385 (1.862)* | | 1.881 (1.827) |
| 4 | 0.855 (4.292)*** | -0.051 (-0.393) | | | | | | | -14.664 (2.375)** | 1.865 (1.811) |
| 5 | 0.911 (4.496)*** | -0.126 (-1.077) | | | | | -0.03 (-1.521) | -0.94 (1.679)* | | 2.007 (1.926) |
| 6 | 0.907 (4.512)*** | -0.103 (-0.906) | | | | | -0.041 (-1.634) | | -9.498 (2.649)*** | 1.961 (1.88) |
| 7 | 0.854 (4.239)*** | -0.059 (-0.476) | | | | | | -2.13 (1.856)* | -13.454 (2.545)** | 2.156 (2.076) |
| 8 | 0.918 (4.516)*** | -0.118 (-1.073) | | | | | -0.029 (-1.545) | -0.909 (1.716)* | -7.369 (2.756)*** | 2.208 (2.1) |
| 9 | 0.837 (4.351)*** | -0.09 (-0.824) | -0.017 (-0.229) | 0.146 (2.324)** | | | | | | 2.765 (2.685) |
| 10 | 0.827 (4.319)*** | -0.081 (-0.787) | -0.011 (-0.148) | 0.137 (2.172)** | | | -0.061 (1.742)* | | | 2.832 (2.726) |
| 11 | 0.795 (4.103)*** | -0.05 (-0.45) | -0.006 (-0.087) | 0.145 (2.324)** | | | | -2.368 (1.898)* | | 2.939 (2.833) |
| 12 | 0.792 (4.145)*** | -0.048 (-0.415) | -0.006 (-0.088) | 0.14 (2.206)** | | | | | -13.812 (2.392)** | 2.914 (2.808) |
| 13 | 0.849 (4.362)*** | -0.095 (-0.978) | -0.019 (-0.266) | 0.128 (2.067)** | | | -0.029 (1.671)* | -0.925 (1.875)* | | 2.95 (2.817) |
| 14 | 0.834 (4.323)*** | -0.082 (-0.85) | -0.012 (-0.16) | 0.133 (2.138)** | | | -0.038 (1.688)* | | -8.845 (2.94)*** | 2.937 (2.804) |
| 15 | 0.793 (4.078)*** | -0.046 (-0.43) | -0.004 (-0.06) | 0.139 (2.255)** | | | | -2.048 (1.941)* | -12.388 (2.639)*** | 3.085 (2.953) |
| 16 | 0.847 (4.335)*** | -0.09 (-0.962) | -0.019 (-0.259) | 0.127 (2.096)** | | | -0.029 (1.718)* | -0.895 (1.928)* | -6.933 (3.034)*** | 3.075 (2.916) |
| 17 | 0.819 (4.253)*** | -0.075 (-0.686) | -0.014 (-0.197) | 0.141 (2.292)** | -0.006 (-0.138) | 0.075 (1.76)* | | | | 3.112 (2.98) |
| 18 | 0.823 (4.286)*** | -0.076 (-0.748) | -0.012 (-0.17) | 0.136 (2.221)** | -0.007 (-0.162) | 0.07 (1.653)* | -0.057 (1.661)* | | | 3.154 (2.995) |
| 19 | 0.781 (4.012)*** | -0.037 (-0.335) | -0.004 (-0.056) | 0.143 (2.334)** | -0.01 (-0.21) | 0.069 (1.626) | | -2.445 (1.907)* | | 3.268 (3.109) |
| 20 | 0.779 (4.073)*** | -0.035 (-0.305) | -0.005 (-0.071) | 0.138 (2.239)** | -0.018 (-0.38) | 0.072 (1.67)* | | | -14.079 (2.371)** | 3.231 (3.072) |
| 21 | 0.842 (4.328)*** | -0.088 (-0.927) | -0.019 (-0.263) | 0.127 (2.126)** | -0.003 (-0.061) | 0.07 (1.683)* | -0.029 (1.649)* | -0.958 (1.923)* | | 3.246 (3.06) |
| 22 | 0.827 (4.291)*** | -0.073 (-0.764) | -0.013 (-0.179) | 0.13 (2.167)** | -0.009 (-0.198) | 0.073 (1.753)* | -0.037 (1.695)* | | -8.815 (2.976)*** | 3.227 (3.042) |
| 23 | 0.781 (4.019)*** | -0.035 (-0.33) | -0.003 (-0.046) | 0.136 (2.267)** | -0.014 (-0.308) | 0.07 (1.68)* | | -2.085 (1.961)* | -12.042 (2.56)** | 3.367 (3.182) |
| 24 | 0.839 (4.3)*** | -0.082 (-0.894) | -0.017 (-0.244) | 0.125 (2.139)** | -0.006 (-0.144) | 0.071 (1.754)* | -0.028 (1.729)* | -0.925 (2.019)** | -6.691 (3.031)*** | 3.335 (3.123) |

2.2.2 Newey-West t-statistics, controls

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{IINDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{AIFIRMvw}}$ | $\hat{\lambda}_{\text{In.BM}}$ | $\hat{\lambda}_{\text{In.ME}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------------------|---------------------------------|------------------------------------|--------------------------------|--------------------------------|-------------------------|
| 1 | 0.869 (4.569)*** | -0.053 (-0.416) | | | | | | | | | | 1.604 (1.564) |
| 2 | 1.336 (4.06)*** | -0.039 (-0.326) | | | | | -0.084 (1.938)* | | | | -0.109 (2.765)*** | 2.96 (2.843) |
| 3 | 0.901 (4.572)*** | 0.012 (0.101) | | | | | -0.091 (2.066)** | | | 0.348 (5.515)*** | | 2.308 (2.19) |
| 4 | 1.215 (3.693)*** | 0.016 (0.141) | | | | | -0.088 (2.043)** | | | 0.266 (3.888)*** | -0.075 (1.807)* | 3.401 (3.246) |
| 5 | 1.144 (3.558)*** | 0.028 (0.238) | | | | | | -2.818 (2.009)** | | 0.272 (3.937)*** | -0.068 (-1.644) | 3.477 (3.322) |
| 6 | 1.165 (3.565)*** | 0.026 (0.226) | | | | | | | -2.695 (2.376)** | 0.272 (3.938)*** | -0.07 (1.671)* | 3.474 (3.319) |
| 7 | 1.224 (3.807)*** | -0.017 (-0.164) | | | | | -0.056 (1.833)* | -1.481 (1.958)* | | 0.263 (3.868)*** | -0.072 (1.775)* | 3.547 (3.353) |
| 8 | 1.202 (3.66)*** | 0 (0.001) | | | | | -0.061 (1.847)* | | -1.922 (2.719)*** | 0.265 (3.892)*** | -0.071 (1.717)* | 3.514 (3.321) |
| 9 | 1.224 (3.798)*** | -0.012 (-0.109) | | | | | | -1.763 (1.948)* | -1.609 (2.051)** | 0.267 (3.868)*** | -0.073 (1.788)* | 3.596 (3.403) |
| 10 | 1.239 (3.84)*** | -0.022 (-0.217) | | | | | -0.044 (1.689)* | -1.231 (1.887)* | -1.32 (2.507)** | 0.263 (3.862)*** | -0.073 (1.833)* | 3.651 (3.419) |
| 11 | 0.804 (4.361)*** | -0.048 (-0.443) | 0.021 (0.289) | 0.154 (2.573)** | | | | | | | | 2.89 (2.773) |
| 12 | 1.339 (4.442)*** | 0.005 (0.052) | -0.055 (-0.904) | 0.125 (2.139)** | | | -0.079 (1.921)* | | | | -0.114 (3.264)*** | 3.721 (3.528) |
| 13 | 0.862 (4.482)*** | 0.002 (0.024) | 0.015 (0.216) | 0.067 (1.252) | | | -0.084 (2.009)** | | | 0.308 (5.185)*** | | 3.378 (3.184) |
| 14 | 1.222 (4.058)*** | 0.033 (0.33) | -0.03 (-0.518) | 0.065 (1.26) | | | -0.082 (1.967)** | | | 0.239 (3.784)*** | -0.081 (2.222)** | 4.055 (3.825) |
| 15 | 1.19 (3.978)*** | 0.049 (0.462) | -0.019 (-0.325) | 0.078 (1.471) | | | | -2.723 (1.965)* | | 0.24 (3.817)*** | -0.08 (2.192)** | 4.133 (3.902) |
| 16 | 1.205 (4.027)*** | 0.044 (0.419) | -0.02 (-0.338) | 0.071 (1.348) | | | | | -2.286 (2.156)** | 0.24 (3.799)*** | -0.081 (2.224)** | 4.108 (3.877) |
| 17 | 1.247 (4.109)*** | 0.008 (0.087) | -0.04 (-0.7) | 0.071 (1.415) | | | -0.055 (1.806)* | -1.476 (2.026)** | | 0.236 (3.732)*** | -0.081 (2.209)** | 4.166 (3.897) |
| 18 | 1.22 (4.039)*** | 0.021 (0.216) | -0.03 (-0.515) | 0.062 (1.217) | | | -0.058 (1.945)* | | -1.789 (2.812)*** | 0.239 (3.805)*** | -0.079 (2.168)** | 4.14 (3.871) |
| 19 | 1.238 (4.133)*** | 0.017 (0.174) | -0.028 (-0.492) | 0.071 (1.404) | | | | -1.936 (1.891)* | -1.541 (1.89)* | 0.241 (3.803)*** | -0.082 (2.256)** | 4.217 (3.949) |
| 20 | 1.249 (4.124)*** | 0.004 (0.048) | -0.039 (-0.687) | 0.064 (1.299) | | | -0.049 (1.821)* | -1.341 (1.924)* | -1.358 (2.562)** | 0.24 (3.786)*** | -0.08 (2.22)** | 4.249 (3.942) |
| 21 | 0.793 (4.283)*** | -0.04 (-0.376) | 0.023 (0.32) | 0.152 (2.594)*** | -0.007 (-0.16) | 0.067 (1.577) | | | | | | 3.299 (3.106) |
| 22 | 1.346 (4.462)*** | 0.009 (0.085) | -0.055 (-0.935) | 0.12 (2.101)** | 0.012 (0.297) | 0.052 (1.218) | -0.075 (1.864)* | | | | -0.115 (3.336)*** | 4.06 (3.791) |
| 23 | 0.863 (4.493)*** | 0.002 (0.023) | 0.017 (0.245) | 0.066 (1.28) | 0.003 (0.078) | 0.026 (0.664) | -0.079 (1.935)* | | | 0.309 (5.239)*** | | 3.73 (3.46) |
| 24 | 1.233 (4.076)*** | 0.036 (0.367) | -0.029 (-0.519) | 0.06 (1.207) | 0.017 (0.435) | 0.023 (0.58) | -0.077 (1.905)* | | | 0.24 (3.78)*** | -0.083 (2.276)** | 4.388 (4.081) |
| 25 | 1.194 (3.966)*** | 0.058 (0.551) | -0.02 (-0.349) | 0.072 (1.389) | 0.018 (0.464) | 0.023 (0.57) | | -2.824 (1.92)* | | 0.244 (3.872)*** | -0.081 (2.235)** | 4.476 (4.17) |
| 26 | 1.217 (4.041)*** | 0.044 (0.434) | -0.019 (-0.339) | 0.068 (1.326) | 0.02 (0.511) | 0.023 (0.585) | | | -2.219 (2.195)** | 0.241 (3.821)*** | -0.083 (2.266)** | 4.441 (4.134) |
| 27 | 1.261 (4.124)*** | 0.011 (0.12) | -0.04 (-0.727) | 0.065 (1.336) | 0.022 (0.62) | 0.03 (0.802) | -0.052 (1.732)* | -1.444 (1.993)** | | 0.237 (3.727)*** | -0.083 (2.273)** | 4.484 (4.14) |
| 28 | 1.236 (4.064)*** | 0.022 (0.237) | -0.029 (-0.518) | 0.059 (1.201) | 0.019 (0.535) | 0.025 (0.66) | -0.053 (1.789)* | | -1.688 (2.72)*** | 0.239 (3.783)*** | -0.081 (2.227)** | 4.453 (4.108) |
| 29 | 1.24 (4.111)*** | 0.025 (0.25) | -0.025 (-0.443) | 0.068 (1.384) | 0.023 (0.624) | 0.03 (0.788) | | -2.042 (1.874)* | -1.624 (1.972)** | 0.241 (3.798)*** | -0.083 (2.301)** | 4.538 (4.194) |
| 30 | 1.263 (4.131)*** | 0.006 (0.071) | -0.037 (-0.679) | 0.06 (1.276) | 0.023 (0.652) | 0.031 (0.856) | -0.046 (1.698)* | -1.322 (1.893)* | -1.314 (2.512)** | 0.238 (3.73)*** | -0.083 (2.281)** | 4.555 (4.172) |

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{IINDc3w}}$ | $\hat{\lambda}_{\beta_{MKTc3w}}$ | $\hat{\lambda}_{\beta_{AIFIRMc3w}}$ | $\hat{\lambda}_{ln.BM}$ | $\hat{\lambda}_{ln.ME}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------------|----------------------------------|-------------------------------------|-------------------------|-------------------------|-------------------------|
| 1 | 0.869 (4.569)*** | -0.053 (-0.416) | | | | | | | | | | 1.604 (1.564) |
| 2 | 1.327 (4.063)*** | -0.035 (-0.284) | | | | | -0.057 (1.722)* | | | | -0.107 (2.697)*** | 2.948 (2.831) |
| 3 | 0.896 (4.611)*** | 0.009 (0.078) | | | | | -0.057 (1.718)* | | | 0.338 (5.453)*** | | 2.282 (2.165) |
| 4 | 1.211 (3.696)*** | 0.017 (0.149) | | | | | -0.056 (1.689)* | | | 0.256 (3.763)*** | -0.076 (1.781)* | 3.385 (3.23) |
| 5 | 1.159 (3.576)*** | 0.026 (0.229) | | | | | | -1.91 (1.989)** | | 0.263 (3.844)*** | -0.07 (1.681)* | 3.451 (3.296) |
| 6 | 1.191 (3.653)*** | 0.059 (0.491) | | | | | | | -13.743 (2.446)** | 0.27 (3.924)*** | -0.078 (1.867)* | 3.493 (3.338) |
| 7 | 1.217 (3.724)*** | 0 (-0.002) | | | | | -0.032 (1.852)* | -1.04 (2.243)** | | 0.256 (3.758)*** | -0.074 (1.762)* | 3.531 (3.338) |
| 8 | 1.239 (3.774)*** | 0.009 (0.082) | | | | | -0.033 (-1.575) | | -8.865 (2.605)*** | 0.261 (3.808)*** | -0.077 (1.869)* | 3.565 (3.371) |
| 9 | 1.206 (3.753)*** | 0.045 (0.4) | | | | | | -1.678 (1.883)* | -10.45 (2.441)** | 0.27 (3.966)*** | -0.078 (1.929)* | 3.661 (3.468) |
| 10 | 1.255 (3.872)*** | 0.003 (0.025) | | | | | -0.024 (1.66)* | -0.872 (2.053)** | -6.786 (2.765)*** | 0.259 (3.787)*** | -0.079 (1.947)* | 3.706 (3.475) |
| 11 | 0.804 (4.361)*** | -0.048 (-0.443) | 0.021 (0.289) | 0.154 (2.573)** | | | | | | | | 2.89 (2.773) |
| 12 | 1.331 (4.452)*** | 0.003 (0.025) | -0.049 (-0.786) | 0.126 (2.084)** | | | -0.056 (1.656)* | | | | -0.112 (3.203)*** | 3.693 (3.5) |
| 13 | 0.857 (4.5)*** | 0 (0.004) | 0.02 (0.278) | 0.067 (1.218) | | | -0.057 (1.689)* | | | 0.306 (5.156)*** | | 3.338 (3.144) |
| 14 | 1.217 (4.08)*** | 0.029 (0.287) | -0.025 (-0.414) | 0.067 (1.245) | | | -0.056 (1.653)* | | | 0.236 (3.779)*** | -0.081 (2.2)** | 4.023 (3.792) |
| 15 | 1.204 (4.031)*** | 0.037 (0.352) | -0.022 (-0.372) | 0.073 (1.393) | | | | -1.771 (2.001)** | | 0.237 (3.782)*** | -0.08 (2.189)** | 4.118 (3.887) |
| 16 | 1.17 (3.905)*** | 0.076 (0.677) | -0.014 (-0.238) | 0.071 (1.321) | | | | | -13.245 (2.455)** | 0.247 (3.904)*** | -0.08 (2.166)** | 4.128 (3.897) |
| 17 | 1.241 (4.12)*** | 0.006 (0.068) | -0.031 (-0.523) | 0.057 (1.12) | | | -0.029 (1.967)** | -0.953 (2.295)** | | 0.237 (3.793)*** | -0.08 (2.181)** | 4.145 (3.876) |
| 18 | 1.218 (4.042)*** | 0.029 (0.303) | -0.02 (-0.333) | 0.065 (1.237) | | | -0.032 (1.664)* | | -8.506 (2.859)*** | 0.245 (3.896)*** | -0.08 (2.185)** | 4.165 (3.896) |
| 19 | 1.206 (4.017)*** | 0.052 (0.51) | -0.022 (-0.378) | 0.069 (1.338) | | | | -1.533 (1.893)* | -9.712 (2.576)** | 0.245 (3.88)*** | -0.082 (2.258)** | 4.285 (4.017) |
| 20 | 1.249 (4.133)*** | 0.011 (0.115) | -0.03 (-0.523) | 0.062 (1.233) | | | -0.023 (1.839)* | -0.785 (2.173)** | -6.31 (2.956)*** | 0.239 (3.8)*** | -0.082 (2.251)** | 4.296 (3.989) |
| 21 | 0.793 (4.283)*** | -0.04 (-0.376) | 0.023 (0.32) | 0.152 (2.594)*** | -0.007 (-0.16) | 0.067 (1.577) | | | | | | 3.299 (3.106) |
| 22 | 1.342 (4.487)*** | 0.01 (0.092) | -0.053 (-0.892) | 0.12 (2.036)** | 0.012 (0.3) | 0.051 (1.189) | -0.055 (-1.63) | | | | -0.115 (3.322)*** | 4.052 (3.782) |
| 23 | 0.858 (4.507)*** | 0.005 (0.049) | 0.018 (0.264) | 0.065 (1.206) | 0.005 (0.114) | 0.024 (0.602) | -0.056 (1.667)* | | | 0.311 (5.287)*** | | 3.714 (3.444) |
| 24 | 1.231 (4.106)*** | 0.037 (0.369) | -0.027 (-0.48) | 0.06 (1.155) | 0.017 (0.446) | 0.022 (0.546) | -0.054 (-1.631) | | | 0.24 (3.836)*** | -0.083 (2.278)** | 4.376 (4.069) |
| 25 | 1.206 (4.007)*** | 0.048 (0.467) | -0.022 (-0.402) | 0.065 (1.285) | 0.019 (0.494) | 0.021 (0.517) | | -1.836 (2.012)** | | 0.244 (3.888)*** | -0.081 (2.228)** | 4.47 (4.164) |
| 26 | 1.178 (3.918)*** | 0.081 (0.743) | -0.014 (-0.241) | 0.064 (1.218) | 0.01 (0.243) | 0.022 (0.532) | | | -13.174 (2.407)** | 0.25 (3.946)*** | -0.082 (2.227)** | 4.466 (4.16) |
| 27 | 1.249 (4.13)*** | 0.015 (0.165) | -0.033 (-0.593) | 0.05 (1.017) | 0.02 (0.539) | 0.023 (0.604) | -0.031 (2)** | -0.99 (2.357)** | | 0.24 (3.832)*** | -0.082 (2.244)** | 4.475 (4.13) |
| 28 | 1.238 (4.1)*** | 0.035 (0.372) | -0.021 (-0.379) | 0.057 (1.121) | 0.019 (0.508) | 0.024 (0.628) | -0.032 (-1.612) | | -7.999 (2.665)*** | 0.245 (3.894)*** | -0.083 (2.299)** | 4.484 (4.139) |
| 29 | 1.205 (3.987)*** | 0.062 (0.615) | -0.019 (-0.331) | 0.06 (1.197) | 0.014 (0.383) | 0.021 (0.527) | | -1.594 (1.977)** | -9.409 (2.518)** | 0.248 (3.95)*** | -0.083 (2.295)** | 4.594 (4.25) |
| 30 | 1.259 (4.152)*** | 0.017 (0.194) | -0.029 (-0.519) | 0.054 (1.122) | 0.019 (0.543) | 0.025 (0.676) | -0.024 (1.903)* | -0.829 (2.29)** | -6.062 (2.844)*** | 0.239 (3.807)*** | -0.084 (2.337)** | 4.594 (4.212) |

2.3 Hoberg-Phillips FIC-25 industries

2.3.1 Newey-West t-statistics

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{AIFIRMvw}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|------------------------------------|-------------------------|
| 1 | 0.856 (1.995)** | 0.24 (0.875) | | | | | | | | 1.674 (1.641) |
| 2 | 0.88 (2.059)** | 0.226 (0.9) | | | | | -0.713 (1.897)* | | | 1.712 (1.648) |
| 3 | 0.809 (1.899)* | 0.246 (0.886) | | | | | | -8.264 (-1.568) | | 1.892 (1.827) |
| 4 | 0.848 (1.992)** | 0.236 (0.915) | | | | | | | -4.394 (1.958)* | 1.798 (1.733) |
| 5 | 0.918 (2.156)** | 0.16 (0.696) | | | | | -0.43 (-1.528) | -4.916 (1.848)* | | 1.846 (1.749) |
| 6 | 0.908 (2.098)** | 0.184 (0.803) | | | | | -0.492 (2.089)** | | -3.212 (2.203)** | 1.811 (1.714) |
| 7 | 0.922 (2.167)** | 0.155 (0.676) | | | | | | -4.96 (1.701)* | -2.668 (1.659)* | 1.886 (1.788) |
| 8 | 0.953 (2.211)** | 0.127 (0.589) | | | | | -0.323 (-1.498) | -3.57 (1.879)* | -2.136 (1.907)* | 1.907 (1.777) |
| 9 | 0.838 (2.031)** | 0.289 (1.076) | -0.002 (-0.028) | 0.142 (1.246) | | | | | | 2.116 (2.019) |
| 10 | 0.878 (2.137)** | 0.273 (1.149) | -0.019 (-0.224) | 0.12 (1.097) | | | -0.732 (2.01)** | | | 2.146 (2.017) |
| 11 | 0.839 (2.041)** | 0.286 (1.058) | 0.012 (0.142) | 0.15 (1.272) | | | | -8.267 (-1.55) | | 2.303 (2.174) |
| 12 | 0.861 (2.109)** | 0.266 (1.081) | 0.005 (0.054) | 0.121 (1.102) | | | | | -4.081 (1.825)* | 2.224 (2.095) |
| 13 | 0.949 (2.298)** | 0.206 (0.947) | -0.014 (-0.162) | 0.113 (1.06) | | | -0.483 (1.834)* | -4.982 (1.878)* | | 2.267 (2.105) |
| 14 | 0.924 (2.221)** | 0.216 (1.006) | -0.013 (-0.152) | 0.103 (0.967) | | | -0.454 (2.096)** | | -2.985 (2.122)** | 2.213 (2.052) |
| 15 | 0.949 (2.307)** | 0.195 (0.88) | -0.004 (-0.045) | 0.111 (1.052) | | | | -5.18 (1.713)* | -2.562 (-1.557) | 2.305 (2.143) |
| 16 | 0.983 (2.351)** | 0.166 (0.815) | -0.014 (-0.164) | 0.097 (0.944) | | | -0.341 (1.769)* | -3.667 (1.917)* | -2.138 (1.96)* | 2.311 (2.117) |
| 17 | 0.814 (1.971)** | 0.281 (1.061) | 0.007 (0.096) | 0.157 (1.397) | -0.077 (-0.597) | -0.03 (-0.447) | | | | 2.471 (2.31) |
| 18 | 0.872 (2.119)** | 0.249 (1.083) | -0.007 (-0.097) | 0.131 (1.239) | -0.067 (-0.545) | -0.037 (-0.561) | -0.799 (2.232)** | | | 2.488 (2.295) |
| 19 | 0.812 (1.956)* | 0.29 (1.071) | 0.017 (0.222) | 0.161 (1.403) | -0.077 (-0.599) | -0.024 (-0.37) | | -8.44 (-1.544) | | 2.642 (2.449) |
| 20 | 0.858 (2.093)** | 0.247 (1.036) | 0.011 (0.138) | 0.132 (1.241) | -0.071 (-0.582) | -0.038 (-0.578) | | | -3.692 (1.718)* | 2.543 (2.35) |
| 21 | 0.936 (2.257)** | 0.195 (0.906) | -0.008 (-0.106) | 0.121 (1.188) | -0.046 (-0.392) | -0.023 (-0.381) | -0.56 (2.027)** | -4.952 (1.822)* | | 2.58 (2.355) |
| 22 | 0.922 (2.197)** | 0.199 (0.95) | -0.007 (-0.097) | 0.11 (1.073) | -0.049 (-0.424) | -0.037 (-0.579) | -0.522 (2.426)** | | -2.744 (2.024)** | 2.506 (2.28) |
| 23 | 0.938 (2.263)** | 0.182 (0.842) | 0 (-0.002) | 0.125 (1.239) | -0.042 (-0.361) | -0.028 (-0.453) | | -5.093 (1.704)* | -2.369 (-1.435) | 2.616 (2.39) |
| 24 | 0.976 (2.314)** | 0.15 (0.752) | -0.01 (-0.129) | 0.104 (1.063) | -0.028 (-0.251) | -0.028 (-0.478) | -0.397 (2.031)** | -3.563 (1.873)* | -1.945 (1.766)* | 2.597 (2.339) |

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{\beta_{MKTew}}$ | $\hat{\lambda}_{\beta_{AIFIRMeew}}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|-------------------------------------|-------------------------|
| 1 | 0.856 (1.995)** | 0.24 (0.875) | | | | | | | | 1.674 (1.641) |
| 2 | 0.866 (2.021)** | 0.247 (0.933) | | | | | -0.612 (1.662)* | | | 1.767 (1.702) |
| 3 | 0.797 (1.874)* | 0.274 (0.953) | | | | | | -6.7 (-1.553) | | 1.905 (1.841) |
| 4 | 0.811 (1.918)* | 0.294 (1.037) | | | | | | | -24.275 (1.697)* | 1.848 (1.783) |
| 5 | 0.878 (2.072)** | 0.212 (0.847) | | | | | -0.526 (1.674)* | -4.447 (1.682)* | | 1.887 (1.79) |
| 6 | 0.867 (2.017)** | 0.256 (0.979) | | | | | -0.537 (-1.563) | | -19.522 (1.805)* | 1.895 (1.798) |
| 7 | 0.832 (1.953)* | 0.26 (0.987) | | | | | | -5.179 (-1.566) | -18.125 (-1.647) | 1.98 (1.883) |
| 8 | 0.881 (2.048)** | 0.223 (0.924) | | | | | -0.44 (-1.573) | -3.916 (-1.615) | -15.355 (1.906)* | 2.017 (1.888) |
| 9 | 0.838 (2.031)** | 0.289 (1.076) | -0.002 (-0.028) | 0.142 (1.246) | | | | | | 2.116 (2.019) |
| 10 | 0.866 (2.098)** | 0.287 (1.137) | -0.016 (-0.186) | 0.131 (1.152) | | | -0.616 (1.673)* | | | 2.174 (2.045) |
| 11 | 0.806 (1.976)** | 0.316 (1.122) | 0.016 (0.182) | 0.148 (1.256) | | | | -6.797 (-1.56) | | 2.32 (2.191) |
| 12 | 0.81 (2.001)** | 0.318 (1.144) | 0.008 (0.09) | 0.148 (1.262) | | | | | -22.904 (-1.647) | 2.242 (2.113) |
| 13 | 0.898 (2.183)** | 0.256 (1.06) | -0.012 (-0.142) | 0.12 (1.108) | | | -0.544 (1.703)* | -4.646 (1.728)* | | 2.262 (2.101) |
| 14 | 0.893 (2.148)** | 0.266 (1.081) | -0.016 (-0.186) | 0.125 (1.099) | | | -0.513 (-1.568) | | -17.32 (1.724)* | 2.258 (2.097) |
| 15 | 0.84 (2.055)** | 0.279 (1.083) | 0.015 (0.168) | 0.134 (1.21) | | | | -5.111 (-1.567) | -16.743 (-1.567) | 2.365 (2.204) |
| 16 | 0.927 (2.215)** | 0.224 (0.987) | -0.015 (-0.17) | 0.112 (1.043) | | | -0.421 (-1.583) | -3.755 (-1.621) | -13.399 (1.767)* | 2.36 (2.166) |
| 17 | 0.814 (1.971)** | 0.281 (1.061) | 0.007 (0.096) | 0.157 (1.397) | -0.077 (-0.597) | -0.03 (-0.447) | | | | 2.471 (2.31) |
| 18 | 0.868 (2.099)** | 0.258 (1.076) | -0.008 (-0.102) | 0.148 (1.33) | -0.07 (-0.569) | -0.041 (-0.6) | -0.568 (1.662)* | | | 2.514 (2.32) |
| 19 | 0.779 (1.893)* | 0.317 (1.134) | 0.023 (0.286) | 0.159 (1.365) | -0.083 (-0.639) | -0.034 (-0.503) | | -7.049 (-1.562) | | 2.661 (2.468) |
| 20 | 0.791 (1.945)* | 0.304 (1.119) | 0.013 (0.159) | 0.168 (1.435) | -0.087 (-0.668) | -0.031 (-0.445) | | | -21.831 (-1.514) | 2.574 (2.38) |
| 21 | 0.895 (2.164)** | 0.237 (1.016) | -0.008 (-0.102) | 0.133 (1.27) | -0.055 (-0.459) | -0.03 (-0.454) | -0.509 (1.67)* | -4.636 (1.751)* | | 2.588 (2.362) |
| 22 | 0.888 (2.135)** | 0.241 (1.016) | -0.011 (-0.138) | 0.148 (1.321) | -0.068 (-0.554) | -0.034 (-0.506) | | | -16.104 (-1.585) | 2.565 (2.34) |
| 23 | 0.816 (1.988)** | 0.276 (1.088) | 0.018 (0.217) | 0.151 (1.37) | -0.07 (-0.56) | -0.032 (-0.476) | | -5.274 (-1.579) | -16.191 (-1.443) | 2.66 (2.435) |
| 24 | 0.918 (2.184)** | 0.208 (0.942) | -0.01 (-0.13) | 0.132 (1.252) | -0.052 (-0.444) | -0.023 (-0.36) | -0.393 (-1.511) | -3.772 (-1.641) | -12.466 (-1.595) | 2.646 (2.389) |

2.3.2 Newey-West t-statistics, controls

| # | $\hat{\lambda}_{\text{intercept}}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{AIFIRMvw}}$ | $\hat{\lambda}_{\ln.BM}$ | $\hat{\lambda}_{\ln.ME}$ | R^2, \bar{R}^2 (in %) |
|----|------------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|--------------------------|-------------------------|
| 1 | 0.856 (1.995)** | 0.24 (0.875) | | | | | | | | | | 1.674 (1.641) |
| 2 | 1.562 (2.236)** | 0.224 (0.89) | | | | | -0.633 (-1.638) | | | | -0.123 (1.991)** | 2.337 (2.24) |
| 3 | 1.014 (2.206)** | 0.243 (1.004) | | | | | -0.629 (1.693)* | | | 0.306 (2.794)*** | | 2.045 (1.948) |
| 4 | 1.448 (2.105)** | 0.238 (0.982) | | | | | -0.599 (-1.564) | | | 0.225 (2.278)** | -0.085 (-1.432) | 2.617 (2.488) |
| 5 | 1.342 (2.013)** | 0.256 (0.953) | | | | | -7.588 (-1.45) | | | 0.237 (2.402)** | -0.075 (-1.322) | 2.776 (2.647) |
| 6 | 1.412 (2.073)** | 0.237 (0.956) | | | | | | | -3.273 (-1.441) | 0.23 (2.336)** | -0.081 (-1.386) | 2.694 (2.565) |
| 7 | 1.437 (2.11)** | 0.177 (0.8) | | | | | -0.328 (-1.17) | -4.382 (1.679)* | | 0.225 (2.264)** | -0.075 (-1.319) | 2.726 (2.565) |
| 8 | 1.449 (2.093)** | 0.188 (0.855) | | | | | -0.386 (-1.634) | | -2.395 (-1.642) | 0.225 (2.282)** | -0.078 (-1.351) | 2.701 (2.54) |
| 9 | 1.458 (2.131)** | 0.166 (0.747) | | | | | | -4.286 (-1.499) | -1.787 (-1.097) | 0.228 (2.316)** | -0.077 (-1.335) | 2.769 (2.609) |
| 10 | 1.482 (2.144)** | 0.14 (0.675) | | | | | -0.242 (-1.149) | -2.991 (-1.645) | -1.462 (-1.295) | 0.227 (2.297)** | -0.075 (-1.32) | 2.788 (2.596) |
| 11 | 0.838 (2.031)** | 0.289 (1.076) | -0.002 (-0.028) | 0.142 (1.246) | | | | | | | | 2.116 (2.019) |
| 12 | 1.675 (2.47)** | 0.31 (1.296) | -0.076 (-1.005) | 0.14 (1.299) | | | -0.678 (1.785)* | | | | -0.143 (2.313)** | 2.758 (2.597) |
| 13 | 1.025 (2.295)** | 0.272 (1.171) | -0.025 (-0.305) | 0.073 (0.721) | | | -0.623 (1.712)* | | | 0.294 (2.717)*** | | 2.448 (2.287) |
| 14 | 1.566 (2.352)** | 0.296 (1.253) | -0.063 (-0.874) | 0.106 (1.069) | | | -0.624 (1.654)* | | | 0.19 (2.072)** | -0.107 (1.843)* | 2.982 (2.789) |
| 15 | 1.486 (2.278)** | 0.309 (1.149) | -0.038 (-0.513) | 0.131 (1.214) | | | | -7.638 (-1.435) | | 0.205 (2.218)** | -0.098 (1.724)* | 3.127 (2.935) |
| 16 | 1.528 (2.325)** | 0.284 (1.164) | -0.045 (-0.611) | 0.106 (1.062) | | | | | -2.969 (-1.303) | 0.202 (2.193)** | -0.101 (1.769)* | 3.057 (2.865) |
| 17 | 1.585 (2.381)** | 0.231 (1.074) | -0.058 (-0.797) | 0.096 (1.001) | | | -0.38 (-1.396) | -4.417 (1.683)* | | 0.196 (2.147)** | -0.098 (1.746)* | 3.073 (2.849) |
| 18 | 1.57 (2.35)** | 0.237 (1.112) | -0.057 (-0.778) | 0.087 (0.913) | | | -0.372 (1.657)* | | -2.147 (-1.506) | 0.198 (2.157)** | -0.099 (1.745)* | 3.036 (2.811) |
| 19 | 1.584 (2.38)** | 0.217 (0.987) | -0.05 (-0.674) | 0.095 (0.999) | | | | -4.538 (-1.524) | -1.639 (-0.974) | 0.202 (2.19)** | -0.097 (1.712)* | 3.124 (2.899) |
| 20 | 1.607 (2.385)** | 0.19 (0.943) | -0.055 (-0.761) | 0.08 (0.871) | | | -0.27 (-1.358) | -3.117 (1.675)* | -1.411 (-1.263) | 0.2 (2.171)** | -0.096 (1.702)* | 3.121 (2.865) |
| 21 | 0.814 (1.971)** | 0.281 (1.061) | 0.007 (0.096) | 0.157 (1.397) | -0.077 (-0.597) | -0.03 (-0.447) | | | | | | 2.471 (2.31) |
| 22 | 1.65 (2.455)** | 0.289 (1.25) | -0.066 (-0.956) | 0.142 (1.376) | -0.038 (-0.318) | -0.027 (-0.42) | -0.716 (1.923)* | | | | -0.138 (2.321)** | 3.045 (2.821) |
| 23 | 1.024 (2.297)** | 0.254 (1.135) | -0.021 (-0.27) | 0.084 (0.863) | -0.077 (-0.655) | -0.051 (-0.789) | -0.666 (1.856)* | | | 0.289 (2.79)*** | | 2.769 (2.544) |
| 24 | 1.554 (2.349)** | 0.279 (1.222) | -0.058 (-0.85) | 0.109 (1.15) | -0.052 (-0.466) | -0.036 (-0.585) | -0.654 (1.768)* | | | 0.192 (2.165)** | -0.103 (1.851)* | 3.263 (3.007) |
| 25 | 1.468 (2.259)** | 0.318 (1.184) | -0.037 (-0.53) | 0.135 (1.283) | -0.063 (-0.541) | -0.027 (-0.434) | | -7.759 (-1.425) | | 0.207 (2.305)** | -0.097 (1.774)* | 3.409 (3.153) |
| 26 | 1.535 (2.344)** | 0.27 (1.147) | -0.044 (-0.63) | 0.108 (1.131) | -0.052 (-0.469) | -0.039 (-0.625) | | | -2.644 (-1.216) | 0.202 (2.266)** | -0.1 (1.816)* | 3.315 (3.059) |
| 27 | 1.577 (2.376)** | 0.226 (1.064) | -0.056 (-0.835) | 0.098 (1.078) | -0.035 (-0.324) | -0.025 (-0.435) | -0.436 (-1.528) | -4.385 (-1.628) | | 0.2 (2.243)** | -0.096 (1.76)* | 3.343 (3.055) |
| 28 | 1.574 (2.354)** | 0.225 (1.089) | -0.053 (-0.786) | 0.088 (0.966) | -0.035 (-0.335) | -0.038 (-0.628) | -0.42 (1.883)* | | -1.956 (-1.432) | 0.201 (2.246)** | -0.098 (1.774)* | 3.283 (2.995) |
| 29 | 1.584 (2.385)** | 0.21 (0.979) | -0.051 (-0.734) | 0.101 (1.112) | -0.028 (-0.265) | -0.03 (-0.515) | | -4.432 (-1.506) | -1.502 (-0.896) | 0.205 (2.273)** | -0.096 (1.747)* | 3.383 (3.095) |
| 30 | 1.606 (2.382)** | 0.18 (0.912) | -0.053 (-0.792) | 0.082 (0.938) | -0.018 (-0.18) | -0.031 (-0.549) | -0.314 (-1.557) | -3.017 (-1.626) | -1.266 (-1.135) | 0.204 (2.262)** | -0.095 (1.718)* | 3.369 (3.049) |

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta MktRF}$ | $\hat{\lambda}_{\beta SMB}$ | $\hat{\lambda}_{\beta HML}$ | $\hat{\lambda}_{\beta RMW}$ | $\hat{\lambda}_{\beta CMA}$ | $\hat{\lambda}_{\beta INDe_{ew}}$ | $\hat{\lambda}_{\beta MKTe_{ew}}$ | $\hat{\lambda}_{\beta AIFIRMe_{ew}}$ | $\hat{\lambda}_{ln.BM}$ | $\hat{\lambda}_{ln.ME}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------------|-----------------------------------|--------------------------------------|-------------------------|-------------------------|-------------------------|
| 1 | 0.856 (1.995)** | 0.24 (0.875) | | | | | | | | | | 1.674 (1.641) |
| 2 | 1.548 (2.223)** | 0.241 (0.912) | | | | | -0.572 (-1.521) | | | | -0.123 (1.999)** | 2.39 (2.293) |
| 3 | 1.005 (2.184)** | 0.262 (1.022) | | | | | -0.572 (-1.541) | | | 0.313 (2.855)*** | | 2.099 (2.002) |
| 4 | 1.435 (2.094)** | 0.253 (0.99) | | | | | -0.551 (-1.467) | | | 0.233 (2.368)** | -0.084 (-1.429) | 2.668 (2.54) |
| 5 | 1.337 (2.019)** | 0.279 (1.003) | | | | | | -6.312 (-1.468) | | 0.236 (2.393)** | -0.077 (-1.363) | 2.786 (2.657) |
| 6 | 1.367 (2.02)** | 0.297 (1.07) | | | | | | | -22.378 (-1.537) | 0.238 (2.438)** | -0.081 (-1.382) | 2.745 (2.617) |
| 7 | 1.423 (2.101)** | 0.221 (0.914) | | | | | -0.468 (-1.466) | -4.057 (-1.557) | | 0.229 (2.323)** | -0.08 (-1.393) | 2.758 (2.597) |
| 8 | 1.433 (2.082)** | 0.258 (1.019) | | | | | -0.482 (-1.386) | | | 0.233 (2.364)** | -0.084 (-1.418) | 2.788 (2.627) |
| 9 | 1.387 (2.062)** | 0.268 (1.04) | | | | | | -4.792 (-1.469) | -15.865 (-1.419) | 0.235 (2.426)** | -0.081 (-1.41) | 2.834 (2.674) |
| 10 | 1.44 (2.098)** | 0.231 (0.984) | | | | | -0.385 (-1.359) | -3.548 (-1.497) | -13.267 (-1.62) | 0.227 (2.319)** | -0.082 (-1.429) | 2.875 (2.682) |
| 11 | 0.838 (2.031)** | 0.289 (1.076) | -0.002 (-0.028) | 0.142 (1.246) | | | | | | | | 2.116 (2.019) |
| 12 | 1.66 (2.452)** | 0.322 (1.272) | -0.076 (-1.009) | 0.151 (1.348) | | | -0.588 (-1.554) | | | | -0.142 (2.31)** | 2.782 (2.621) |
| 13 | 1.018 (2.272)** | 0.285 (1.156) | -0.025 (-0.297) | 0.083 (0.784) | | | -0.578 (-1.568) | | | 0.299 (2.758)*** | | 2.476 (2.315) |
| 14 | 1.551 (2.336)** | 0.307 (1.228) | -0.064 (-0.888) | 0.115 (1.113) | | | -0.564 (-1.502) | | | 0.197 (2.148)** | -0.105 (1.826)* | 3.006 (2.813) |
| 15 | 1.467 (2.268)** | 0.336 (1.201) | -0.036 (-0.474) | 0.128 (1.186) | | | | -6.417 (-1.468) | | 0.208 (2.281)** | -0.099 (1.742)* | 3.144 (2.951) |
| 16 | 1.477 (2.242)** | 0.339 (1.221) | -0.043 (-0.582) | 0.135 (1.252) | | | | | -20.015 (-1.393) | 0.206 (2.237)** | -0.101 (1.735)* | 3.082 (2.89) |
| 17 | 1.558 (2.349)** | 0.278 (1.156) | -0.062 (-0.853) | 0.1 (1.02) | | | -0.494 (-1.512) | -4.281 (-1.6) | | 0.207 (2.269)** | -0.1 (1.763)* | 3.07 (2.845) |
| 18 | 1.554 (2.314)** | 0.288 (1.174) | -0.063 (-0.853) | 0.11 (1.066) | | | -0.464 (-1.391) | | -15.114 (-1.453) | 0.209 (2.28)** | -0.1 (1.742)* | 3.088 (2.864) |
| 19 | 1.494 (2.275)** | 0.304 (1.18) | -0.037 (-0.489) | 0.119 (1.173) | | | | -4.747 (-1.461) | -14 (-1.267) | 0.208 (2.269)** | -0.099 (1.724)* | 3.167 (2.943) |
| 20 | 1.579 (2.341)** | 0.249 (1.102) | -0.062 (-0.845) | 0.096 (0.983) | | | -0.372 (-1.364) | -3.422 (-1.495) | -11.042 (-1.406) | 0.208 (2.286)** | -0.099 (1.734)* | 3.159 (2.903) |
| 21 | 0.814 (1.971)** | 0.281 (1.061) | 0.007 (0.096) | 0.157 (1.397) | -0.077 (-0.597) | -0.03 (-0.447) | | | | | | 2.471 (2.31) |
| 22 | 1.648 (2.45)** | 0.297 (1.234) | -0.069 (-0.989) | 0.158 (1.455) | -0.038 (-0.324) | -0.031 (-0.47) | -0.534 (-1.527) | | | | -0.138 (2.333)** | 3.067 (2.842) |
| 23 | 1.027 (2.295)** | 0.261 (1.118) | -0.023 (-0.295) | 0.099 (0.96) | -0.079 (-0.672) | -0.055 (-0.832) | -0.529 (-1.547) | | | 0.295 (2.837)*** | | 2.796 (2.571) |
| 24 | 1.554 (2.347)** | 0.285 (1.2) | -0.061 (-0.896) | 0.123 (1.225) | -0.053 (-0.47) | -0.04 (-0.633) | -0.51 (-1.47) | | | 0.199 (2.24)** | -0.102 (1.849)* | 3.285 (3.029) |
| 25 | 1.447 (2.244)** | 0.344 (1.233) | -0.034 (-0.484) | 0.132 (1.244) | -0.07 (-0.586) | -0.035 (-0.55) | | -6.571 (-1.457) | | 0.212 (2.372)** | -0.097 (1.772)* | 3.425 (3.169) |
| 26 | 1.455 (2.223)** | 0.333 (1.223) | -0.042 (-0.596) | 0.144 (1.349) | -0.07 (-0.588) | -0.031 (-0.472) | | | -19.05 (-1.295) | 0.212 (2.361)** | -0.098 (1.74)* | 3.355 (3.1) |
| 27 | 1.565 (2.355)** | 0.266 (1.144) | -0.061 (-0.927) | 0.107 (1.13) | -0.04 (-0.37) | -0.032 (-0.517) | -0.457 (-1.464) | -4.208 (-1.595) | | 0.208 (2.332)** | -0.099 (1.797)* | 3.348 (3.06) |
| 28 | 1.557 (2.329)** | 0.271 (1.146) | -0.062 (-0.908) | 0.123 (1.221) | -0.051 (-0.459) | -0.034 (-0.532) | -0.435 (-1.365) | | -13.989 (-1.338) | 0.211 (2.364)** | -0.099 (1.775)* | 3.339 (3.052) |
| 29 | 1.482 (2.264)** | 0.306 (1.211) | -0.039 (-0.537) | 0.126 (1.27) | -0.054 (-0.48) | -0.033 (-0.532) | | -4.894 (-1.466) | -13.695 (-1.184) | 0.213 (2.36)** | -0.098 (1.755)* | 3.421 (3.134) |
| 30 | 1.582 (2.35)** | 0.24 (1.093) | -0.061 (-0.916) | 0.108 (1.13) | -0.037 (-0.347) | -0.025 (-0.416) | -0.35 (-1.309) | -3.429 (-1.501) | -10.357 (-1.276) | 0.211 (2.372)** | -0.099 (1.768)* | 3.404 (3.084) |

3 Testing hypothesis 3, $\lambda_{IIND} = 0$

3.1 SIC-49 industries

3.1.1
Newey-West t-statistics

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{IINDvw}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | $\hat{\lambda}_{IFIRMvw}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|--------------------------|---------------------------------|----------------------------------|---------------------------|-------------------------|
| 1 | 0.896 (4.48)*** | -0.104 (-0.817) | | | | | | | | | | 1.595 (1.569) |
| 2 | 0.853 (4.197)*** | -0.073 (-0.558) | | | | | -0.966 (1.733)* | | | | | 1.896 (1.842) |
| 3 | 0.937 (4.69)*** | -0.098 (-0.785) | | | | | | -0.008 (2.13)** | | | | 1.859 (1.805) |
| 4 | 0.898 (4.438)*** | -0.067 (-0.521) | | | | | -0.953 (1.748)* | -0.008 (2.203)** | | | | 2.153 (2.073) |
| 5 | 0.837 (4.225)*** | -0.1 (-0.814) | | | | | -0.887 (1.742)* | | -3.271 (2.046)** | -2.813 (2.103)** | | 2.427 (2.321) |
| 6 | 0.886 (4.472)*** | -0.074 (-0.597) | | | | | | -0.008 (2.263)** | -3.587 (2.118)** | -3.094 (2.223)** | | 2.496 (2.39) |
| 7 | 0.881 (4.451)*** | -0.095 (-0.785) | | | | | -0.874 (1.757)* | -0.008 (2.2)** | -3.23 (2.071)** | -2.769 (2.128)** | | 2.666 (2.533) |
| 8 | 0.846 (4.234)*** | -0.037 (-0.29) | | | | | -1.022 (1.857)* | | | | 0 (2.477)** | 2.628 (2.548) |
| 9 | 0.931 (4.708)*** | -0.063 (-0.527) | | | | | | -0.008 (2.145)** | | | 0 (2.42)** | 2.611 (2.531) |
| 10 | 0.894 (4.47)*** | -0.032 (-0.258) | | | | | -1.009 (1.877)* | -0.008 (2.218)** | | | 0 (2.48)** | 2.869 (2.764) |
| 11 | 0.83 (4.175)*** | -0.056 (-0.447) | | | | | -1.011 (1.888)* | | | -3.303 (2.305)** | 0 (2.669)*** | 2.857 (2.751) |
| 12 | 0.882 (4.46)*** | -0.029 (-0.228) | | | | | | -0.008 (2.178)** | | -3.514 (2.388)** | 0 (2.595)*** | 2.884 (2.778) |
| 13 | 0.874 (4.408)*** | -0.051 (-0.417) | | | | | -1.001 (1.91)* | -0.008 (2.125)** | | -3.271 (2.341)** | 0 (2.669)*** | 3.09 (2.958) |
| 14 | 0.827 (4.22)*** | -0.065 (-0.545) | | | | | -0.951 (1.887)* | | -3.448 (2.175)** | -3.016 (2.281)** | 0 (2.842)*** | 3.072 (2.94) |
| 15 | 0.878 (4.471)*** | -0.039 (-0.318) | | | | | | -0.008 (2.263)** | -3.767 (2.246)** | -3.284 (2.393)** | 0 (2.887)*** | 3.144 (3.012) |
| 16 | 0.874 (4.448)*** | -0.061 (-0.518) | | | | | -0.939 (1.909)* | -0.008 (2.204)** | -3.403 (2.203)** | -2.971 (2.314)** | 0 (2.841)*** | 3.3 (3.142) |
| 17 | 0.827 (4.3)*** | -0.083 (-0.762) | -0.014 (-0.194) | 0.147 (2.34)** | | | | | | | | 2.753 (2.674) |
| 18 | 0.873 (4.53)*** | -0.082 (-0.771) | -0.012 (-0.169) | 0.146 (2.348)** | | | | -0.007 (2.077)** | | | | 2.976 (2.87) |
| 19 | 0.834 (4.291)*** | -0.041 (-0.371) | -0.005 (-0.07) | 0.14 (2.24)** | | | -0.863 (1.671)* | -0.007 (2.085)** | | | | 3.185 (3.053) |
| 20 | 0.793 (4.109)*** | -0.061 (-0.571) | -0.004 (-0.057) | 0.144 (2.356)** | | | -0.826 (1.713)* | | -3.197 (2.123)** | -2.65 (2.085)** | | 3.273 (3.115) |
| 21 | 0.825 (4.262)*** | -0.044 (-0.406) | 0.001 (0.02) | 0.141 (2.294)** | | | | -0.007 (2.099)** | -3.537 (2.102)** | -2.905 (2.126)** | | 3.341 (3.183) |
| 22 | 0.837 (4.316)*** | -0.061 (-0.581) | -0.002 (-0.029) | 0.143 (2.361)** | | | -0.813 (1.727)* | -0.007 (2.04)** | -3.153 (2.145)** | -2.607 (2.108)** | | 3.482 (3.298) |
| 23 | 0.789 (4.107)*** | -0.021 (-0.189) | 0.013 (0.192) | 0.133 (2.146)** | | | -0.921 (1.762)* | | | | 0 (2.896)*** | 3.501 (3.37) |
| 24 | 0.874 (4.567)*** | -0.06 (-0.568) | 0.008 (0.113) | 0.139 (2.276)** | | | | -0.007 (2.085)** | | | 0 (2.855)*** | 3.517 (3.386) |
| 25 | 0.836 (4.335)*** | -0.021 (-0.189) | 0.015 (0.227) | 0.132 (2.144)** | | | -0.908 (1.778)* | -0.007 (2.09)** | | | 0 (2.897)*** | 3.714 (3.557) |
| 26 | 0.787 (4.098)*** | -0.032 (-0.292) | 0.016 (0.233) | 0.14 (2.259)** | | | -0.952 (1.833)* | | | -3.143 (2.257)** | 0 (2.925)*** | 3.66 (3.503) |
| 27 | 0.828 (4.316)*** | -0.019 (-0.175) | 0.022 (0.317) | 0.135 (2.185)** | | | | -0.007 (2.08)** | | -3.249 (2.263)** | 0 (2.94)*** | 3.721 (3.564) |
| 28 | 0.832 (4.323)*** | -0.032 (-0.294) | 0.018 (0.266) | 0.139 (2.26)** | | | -0.939 (1.851)* | -0.007 (2.053)** | | -3.104 (2.287)** | 0 (2.927)*** | 3.868 (3.684) |
| 29 | 0.792 (4.132)*** | -0.041 (-0.387) | 0.017 (0.241) | 0.136 (2.262)** | | | -0.874 (1.83)* | | -3.317 (2.223)** | -2.803 (2.233)** | 0 (2.958)*** | 3.79 (3.606) |
| 30 | 0.827 (4.297)*** | -0.023 (-0.219) | 0.022 (0.326) | 0.133 (2.199)** | | | | -0.007 (2.109)** | -3.659 (2.199)** | -3.055 (2.27)** | 0 (3.009)*** | 3.861 (3.678) |
| 31 | 0.838 (4.346)*** | -0.041 (-0.397) | 0.019 (0.272) | 0.136 (2.269)** | | | -0.861 (1.851)* | -0.007 (2.058)** | -3.271 (2.249)** | -2.76 (2.264)** | 0 (2.959)*** | 3.994 (3.784) |
| 32 | 0.811 (4.206)*** | -0.068 (-0.632) | -0.012 (-0.166) | 0.142 (2.318)** | -0.009 (-0.188) | 0.077 (1.802)* | | | | | | 3.098 (2.966) |
| 33 | 0.857 (4.444)*** | -0.069 (-0.656) | -0.01 (-0.138) | 0.142 (2.333)** | -0.009 (-0.197) | 0.076 (1.807)* | | -0.007 (2.003)** | | | | 3.307 (3.149) |
| 34 | 0.822 (4.242)*** | -0.034 (-0.314) | -0.001 (-0.01) | 0.141 (2.311)** | -0.019 (-0.41) | 0.072 (1.705)* | -0.895 (1.681)* | -0.007 (2.011)** | | | | 3.484 (3.3) |
| 35 | 0.785 (4.049)*** | -0.049 (-0.46) | -0.005 (-0.071) | 0.14 (2.371)** | -0.01 (-0.225) | 0.076 (1.863)* | -0.837 (1.668)* | | -3.245 (2.084)** | -2.706 (2.064)** | | 3.537 (3.327) |
| 36 | 0.818 (4.229)*** | -0.036 (-0.337) | 0.001 (0.017) | 0.139 (2.343)** | -0.014 (-0.325) | 0.069 (1.701)* | | -0.007 (2.026)** | -3.516 (2.077)** | -2.879 (2.069)** | | 3.623 (3.412) |
| 37 | 0.828 (4.27)*** | -0.05 (-0.481) | -0.003 (-0.04) | 0.14 (2.382)** | -0.01 (-0.231) | 0.075 (1.863)* | -0.823 (1.682)* | -0.007 (1.983)** | -3.195 (2.105)** | -2.658 (2.087)** | | 3.737 (3.501) |
| 38 | 0.775 (4.022)*** | -0.013 (-0.121) | 0.015 (0.228) | 0.134 (2.213)** | -0.025 (-0.554) | 0.069 (1.621) | -0.961 (1.776)* | | | | 0 (2.795)*** | 3.792 (3.608) |
| 39 | 0.856 (4.469)*** | -0.049 (-0.466) | 0.01 (0.144) | 0.135 (2.25)** | -0.015 (-0.353) | 0.073 (1.739)* | | -0.007 (2.037)** | | | 0 (2.802)*** | 3.824 (3.641) |
| 40 | 0.822 (4.267)*** | -0.015 (-0.134) | 0.018 (0.266) | 0.134 (2.219)** | -0.026 (-0.572) | 0.068 (1.62) | -0.947 (1.794)* | -0.007 (2.039)** | | | 0 (2.803)*** | 3.994 (3.784) |
| 41 | 0.774 (4.013)*** | -0.02 (-0.177) | 0.015 (0.228) | 0.137 (2.275)** | -0.022 (-0.503) | 0.071 (1.685)* | -0.979 (1.826)* | | | -3.226 (2.265)** | 0 (2.818)*** | 3.922 (3.713) |
| 42 | 0.814 (4.244)*** | -0.01 (-0.086) | 0.021 (0.312) | 0.137 (2.259)** | -0.028 (-0.624) | 0.068 (1.623) | | -0.007 (2.05)** | | -3.295 (2.231)** | 0 (2.846)*** | 3.999 (3.79) |
| 43 | 0.82 (4.256)*** | -0.02 (-0.19) | 0.018 (0.267) | 0.137 (2.284)** | -0.023 (-0.518) | 0.071 (1.689)* | -0.965 (1.844)* | -0.007 (2.035)** | | -3.182 (2.295)** | 0 (2.825)*** | 4.121 (3.885) |
| 44 | 0.782 (4.063)*** | -0.03 (-0.285) | 0.013 (0.187) | 0.133 (2.277)** | -0.016 (-0.372) | 0.072 (1.768)* | -0.883 (1.776)* | | -3.348 (2.165)** | -2.847 (2.196)** | 0 (2.831)*** | 4.039 (3.803) |
| 45 | 0.817 (4.249)*** | -0.017 (-0.155) | 0.019 (0.291) | 0.132 (2.253)** | -0.02 (-0.479) | 0.065 (1.615) | | -0.007 (2.061)** | -3.626 (2.162)** | -3.024 (2.202)** | 0 (2.898)*** | 4.125 (3.889) |
| 46 | 0.828 (4.293)*** | -0.032 (-0.304) | 0.015 (0.223) | 0.133 (2.291)** | -0.016 (-0.383) | 0.071 (1.769)* | -0.869 (1.796)* | -0.007 (2.026)** | -3.296 (2.19)** | -2.798 (2.226)** | 0 (2.837)*** | 4.234 (3.973) |

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{MktRF}$ | $\hat{\lambda}_{SMB}$ | $\hat{\lambda}_{HML}$ | $\hat{\lambda}_{RMW}$ | $\hat{\lambda}_{CMA}$ | $\hat{\lambda}_{INDew}$ | $\hat{\lambda}_{INDew}$ | $\hat{\lambda}_{MKTew}$ | $\hat{\lambda}_{FIRMew}$ | $\hat{\lambda}_{IFIRMew}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------|-------------------------|-------------------------|--------------------------|---------------------------|-------------------------|
| 1 | 0.896 (4.48)*** | -0.104 (-0.817) | | | | | | | | | | 1.595 (1.569) |
| 2 | 0.839 (4.172)*** | -0.05 (-0.387) | | | | | -0.925 (2.089)** | | | | | 1.896 (1.842) |
| 3 | 0.9 (4.494)*** | -0.089 (-0.706) | | | | | | -0.004 (-0.864) | | | | 1.91 (1.856) |
| 4 | 0.844 (4.194)*** | -0.038 (-0.295) | | | | | -0.916 (2.055)** | -0.004 (-0.84) | | | | 2.193 (2.113) |
| 5 | 0.832 (4.149)*** | -0.038 (-0.31) | | | | | -0.803 (2.115)** | | -2.355 (2.099)** | -13.427 (2.818)*** | | 2.477 (2.371) |
| 6 | 0.837 (4.136)*** | -0.029 (-0.238) | | | | | | -0.004 (-0.861) | -2.42 (2.102)** | -14.097 (2.978)*** | | 2.508 (2.402) |
| 7 | 0.835 (4.149)*** | -0.028 (-0.232) | | | | | -0.796 (2.088)** | -0.004 (-0.841) | -2.38 (2.122)** | -13.34 (2.794)*** | | 2.746 (2.614) |
| 8 | 0.829 (4.196)*** | -0.015 (-0.119) | | | | | -0.927 (2.111)** | | | | 0 (2.415)** | 2.613 (2.534) |
| 9 | 0.891 (4.496)*** | -0.054 (-0.444) | | | | | | -0.004 (-0.807) | | | 0 (2.423)** | 2.645 (2.565) |
| 10 | 0.836 (4.199)*** | -0.004 (-0.03) | | | | | -0.919 (2.075)** | -0.004 (-0.791) | | | 0 (2.427)** | 2.895 (2.789) |
| 11 | 0.811 (4.099)*** | -0.005 (-0.042) | | | | | -0.89 (2.06)** | | | -14.731 (2.645)*** | 0 (2.406)** | 2.865 (2.759) |
| 12 | 0.824 (4.169)*** | 0.012 (0.099) | | | | | | -0.004 (-0.825) | | | 0 (2.702)*** | 2.909 (2.803) |
| 13 | 0.818 (4.109)*** | 0.005 (0.038) | | | | | -0.882 (2.027)** | -0.004 (-0.803) | | | 0 (2.617)*** | 3.135 (3.003) |
| 14 | 0.817 (4.131)*** | -0.009 (-0.076) | | | | | -0.812 (2.152)** | | -2.499 (2.245)** | -13.237 (2.814)*** | 0 (2.402)** | 3.107 (2.975) |
| 15 | 0.825 (4.12)*** | 0.001 (0.01) | | | | | | -0.004 (-0.848) | -2.556 (2.24)** | -13.831 (2.963)*** | 0 (2.475)** | 3.159 (3.027) |
| 16 | 0.824 (4.126)*** | 0 (0.001) | | | | | -0.805 (2.123)** | -0.004 (-0.84) | -2.522 (2.263)** | -13.152 (2.789)*** | 0 (2.406)** | 3.366 (3.207) |
| 17 | 0.827 (4.3)*** | -0.083 (-0.762) | -0.014 (-0.194) | 0.147 (2.34)** | | | | | | | | 2.753 (2.674) |
| 18 | 0.832 (4.294)*** | -0.072 (-0.666) | -0.013 (-0.176) | 0.14 (2.256)** | | | | -0.003 (-0.735) | | | | 3.027 (2.921) |
| 19 | 0.776 (4.009)*** | -0.024 (-0.215) | 0.006 (0.08) | 0.128 (2.036)** | | | -0.864 (2.082)** | -0.003 (-0.722) | | | | 3.22 (3.089) |
| 20 | 0.772 (3.988)*** | -0.034 (-0.32) | 0.007 (0.095) | 0.131 (2.148)** | | | -0.735 (2.137)** | | -2.237 (2.189)** | -12.905 (3)*** | | 3.321 (3.163) |
| 21 | 0.779 (3.977)*** | -0.024 (-0.226) | 0.005 (0.068) | 0.132 (2.156)** | | | | -0.003 (-0.693) | -2.313 (2.132)** | -13.44 (3.023)*** | | 3.41 (3.252) |
| 22 | 0.777 (3.971)*** | -0.025 (-0.241) | 0.008 (0.116) | 0.126 (2.084)** | | | -0.731 (2.118)** | -0.003 (-0.672) | -2.264 (2.215)** | -12.874 (2.986)*** | | 3.568 (3.384) |
| 23 | 0.769 (4.051)*** | -0.011 (-0.097) | 0.024 (0.346) | 0.126 (2.017)** | | | -0.875 (2.135)** | | | | 0 (2.844)*** | 3.491 (3.359) |
| 24 | 0.831 (4.32)*** | -0.049 (-0.459) | 0.007 (0.105) | 0.133 (2.177)** | | | | -0.003 (-0.692) | | | 0 (2.838)*** | 3.562 (3.431) |
| 25 | 0.777 (4.035)*** | -0.002 (-0.016) | 0.026 (0.376) | 0.12 (1.944)* | | | -0.87 (2.106)** | -0.026 (-0.686) | | | 0 (2.849)*** | 3.749 (3.591) |
| 26 | 0.764 (4.025)*** | -0.01 (-0.091) | 0.026 (0.376) | 0.125 (2.048)** | | | -0.818 (2.091)** | | | -13.933 (2.812)*** | 0 (2.83)*** | 3.671 (3.514) |
| 27 | 0.77 (4.017)*** | 0.007 (0.065) | 0.023 (0.334) | 0.124 (2.001)** | | | | -0.003 (-0.702) | | -14.601 (2.734)*** | 0 (2.863)*** | 3.759 (3.601) |
| 28 | 0.772 (4.008)*** | -0.001 (-0.012) | 0.028 (0.409) | 0.121 (1.992)** | | | -0.813 (2.064)** | -0.003 (-0.686) | | -13.905 (2.793)*** | 0 (2.832)*** | 3.919 (3.736) |
| 29 | 0.771 (4.014)*** | -0.014 (-0.132) | 0.026 (0.377) | 0.124 (2.068)** | | | -0.741 (2.162)** | | -2.354 (2.318)** | -12.547 (2.945)*** | 0 (2.813)*** | 3.833 (3.649) |
| 30 | 0.78 (4)*** | -0.003 (-0.026) | 0.025 (0.36) | 0.125 (2.078)** | | | | -0.003 (-0.664) | -2.426 (2.256)** | -13.074 (2.973)*** | 0 (2.854)*** | 3.925 (3.742) |
| 31 | 0.779 (3.994)*** | -0.006 (-0.055) | 0.028 (0.406) | 0.12 (2.007)** | | | -0.737 (2.143)** | -0.003 (-0.654) | -2.378 (2.34)** | -12.521 (2.932)*** | 0 (2.812)*** | 4.074 (3.864) |
| 32 | 0.811 (4.206)*** | -0.068 (-0.632) | -0.012 (-0.166) | 0.142 (2.318)** | -0.009 (-0.188) | 0.077 (1.802)* | | | | | | 3.098 (2.966) |
| 33 | 0.814 (4.189)*** | -0.059 (-0.549) | -0.01 (-0.134) | 0.136 (2.244)** | -0.009 (-0.186) | 0.072 (1.707)* | | -0.003 (-0.586) | | | | 3.35 (3.192) |
| 34 | 0.765 (3.942)*** | -0.015 (-0.137) | 0.006 (0.091) | 0.13 (2.134)** | -0.014 (-0.302) | 0.064 (1.503) | -0.866 (2.146)** | -0.003 (-0.61) | | | | 3.521 (3.337) |
| 35 | 0.765 (3.951)*** | -0.028 (-0.263) | 0.007 (0.095) | 0.134 (2.256)** | -0.019 (-0.418) | 0.07 (1.679)* | -0.764 (2.165)** | | -2.363 (2.252)** | -13.426 (3.028)*** | | 3.589 (3.379) |
| 36 | 0.771 (3.937)*** | -0.017 (-0.16) | 0.006 (0.082) | 0.132 (2.226)** | -0.013 (-0.301) | 0.063 (1.503) | | -0.002 (-0.576) | -2.432 (2.201)** | -13.882 (3.052)*** | | 3.674 (3.464) |
| 37 | 0.77 (3.939)*** | -0.02 (-0.191) | 0.009 (0.122) | 0.129 (2.195)** | -0.018 (-0.414) | 0.066 (1.6) | -0.758 (2.149)** | -0.003 (-0.619) | -2.382 (2.277)** | -13.368 (3.018)*** | | 3.822 (3.586) |
| 38 | 0.757 (3.97)*** | -0.002 (-0.017) | 0.023 (0.337) | 0.127 (2.102)** | -0.021 (-0.469) | 0.064 (1.513) | -0.883 (2.202)** | | | | 0 (2.778)*** | 3.786 (3.603) |
| 39 | 0.811 (4.2)*** | -0.038 (-0.354) | 0.009 (0.14) | 0.129 (2.159)** | -0.015 (-0.33) | 0.069 (1.644) | | -0.002 (-0.565) | | | 0 (2.778)*** | 3.863 (3.68) |
| 40 | 0.763 (3.95)*** | 0.006 (0.059) | 0.025 (0.374) | 0.122 (2.035)** | -0.021 (-0.462) | 0.06 (1.424) | -0.875 (2.176)** | -0.003 (-0.593) | | | 0 (2.783)*** | 4.028 (3.819) |
| 41 | 0.752 (3.969)*** | -0.001 (-0.013) | 0.025 (0.366) | 0.127 (2.136)** | -0.021 (-0.487) | 0.065 (1.555) | -0.84 (2.15)** | | | -14.324 (2.888)*** | 0 (2.758)*** | 3.945 (3.735) |
| 42 | 0.756 (3.932)*** | 0.015 (0.131) | 0.023 (0.34) | 0.125 (2.077)** | -0.022 (-0.5) | 0.059 (1.382) | | -0.003 (-0.586) | | -15.26 (2.763)*** | 0 (2.791)*** | 4.036 (3.827) |
| 43 | 0.76 (3.955)*** | 0.006 (0.058) | 0.027 (0.404) | 0.123 (2.083)** | -0.021 (-0.483) | 0.061 (1.48) | -0.831 (2.126)** | -0.003 (-0.633) | | -14.254 (2.873)*** | 0 (2.761)*** | 4.179 (3.944) |
| 44 | 0.761 (3.963)*** | -0.008 (-0.074) | 0.025 (0.365) | 0.126 (2.16)** | -0.024 (-0.561) | 0.066 (1.595) | -0.773 (2.197)** | | -2.48 (2.375)** | -13.125 (2.987)*** | 0 (2.729)*** | 4.084 (3.848) |
| 45 | 0.768 (3.942)*** | 0.004 (0.036) | 0.024 (0.363) | 0.125 (2.141)** | -0.019 (-0.435) | 0.059 (1.427) | | -0.002 (-0.563) | -2.545 (2.32)** | -13.571 (3.015)*** | 0 (2.774)*** | 4.171 (3.936) |
| 46 | 0.769 (3.947)*** | 0 (-0.003) | 0.027 (0.398) | 0.122 (2.102)** | -0.024 (-0.56) | 0.063 (1.522) | -0.767 (2.18)** | -0.003 (-0.613) | -2.496 (2.397)** | -13.064 (2.977)*** | 0 (2.728)*** | 4.312 (4.051) |

3.1.2
Newey-West t-statistics, controls

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{IINDvw}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | $\hat{\lambda}_{IFIRMvw}$ | $\hat{\lambda}_{ln.BM}$ | $\hat{\lambda}_{ln.ME}$ |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|--------------------------|---------------------------------|----------------------------------|---------------------------|-------------------------|-------------------------|
| 1 | 0.865 (4.545)*** | -0.049 (-0.387) | | | | | | | | | | | |
| 2 | 1.161 (3.543)*** | 0.04 (0.337) | | | | | -0.88 (1.745)* | | | | | 0.274 (3.896)*** | -0.071 (1.691)* |
| 3 | 0.91 (4.648)*** | 0.015 (0.123) | | | | | | -0.006 (1.671)* | | | | 0.338 (5.335)*** | |
| 4 | 1.392 (4.323)*** | -0.037 (-0.298) | | | | | | -0.009 (2.503)** | | | | | -0.111 (2.802)*** |
| 5 | 1.259 (3.886)*** | 0.015 (0.133) | | | | | | -0.007 (1.986)** | | | | 0.252 (3.682)*** | -0.078 (1.868)* |
| 6 | 1.202 (3.702)*** | 0.045 (0.383) | | | | | -0.873 (1.749)* | -0.007 (2.063)** | | | | 0.274 (3.92)*** | -0.072 (1.735)* |
| 7 | 1.176 (3.652)*** | 0.01 (0.086) | | | | | -0.618 (-1.58) | | -2.237 (2.043)** | -2.058 (1.968)** | | 0.273 (3.865)*** | -0.068 (1.673)* |
| 8 | 1.231 (3.838)*** | 0.026 (0.233) | | | | | | -0.007 (2.079)** | -2.318 (2.115)** | -2.076 (2.008)** | | 0.273 (3.895)*** | -0.074 (1.827)* |
| 9 | 1.217 (3.803)*** | 0.014 (0.132) | | | | | -0.607 (-1.578) | -0.007 (2.054)** | -2.21 (2.054)** | -2.013 (1.964)* | | 0.274 (3.893)*** | -0.07 (1.72)* |
| 10 | 1.28 (4.085)*** | 0.075 (0.633) | | | | | -0.919 (1.83)* | | | | -0.001 (4.13)*** | 0.259 (3.724)*** | -0.09 (2.3)** |
| 11 | 1.366 (4.441)*** | 0.049 (0.437) | | | | | | -0.006 (1.83)* | | | -0.001 (4.098)*** | 0.24 (3.556)*** | -0.096 (2.479)** |
| 12 | 1.317 (4.238)*** | 0.078 (0.672) | | | | | -0.912 (1.836)* | -0.006 (1.916)* | | | -0.001 (4.067)*** | 0.26 (3.756)*** | -0.091 (2.34)** |
| 13 | 1.229 (3.937)*** | 0.065 (0.558) | | | | | -0.916 (1.819)* | | | -2.935 (2.179)** | -0.001 (4.073)*** | 0.257 (3.684)*** | -0.082 (2.098)** |
| 14 | 1.293 (4.176)*** | 0.086 (0.732) | | | | | | -0.007 (1.933)* | -2.953 (2.2)** | -0.001 (4.121)*** | -0.001 (3.753)*** | 0.259 (3.753)*** | -0.089 (2.316)** |
| 15 | 1.266 (4.089)*** | 0.07 (0.602) | | | | | -0.908 (1.822)* | -0.006 (1.921)* | -2.906 (2.182)** | -0.001 (4.021)*** | -0.001 (3.716)*** | 0.258 (3.716)*** | -0.083 (2.141)** |
| 16 | 1.27 (4.109)*** | 0.042 (0.381) | | | | | -0.665 (1.708)* | | -2.318 (2.143)** | -2.175 (2.097)** | -0.001 (4.093)*** | 0.258 (3.707)*** | -0.084 (2.183)** |
| 17 | 1.326 (4.312)*** | 0.059 (0.545) | | | | | | -0.007 (1.94)* | -2.406 (2.226)** | -2.192 (2.142)** | -0.001 (4.108)*** | 0.259 (3.741)*** | -0.09 (2.367)** |
| 18 | 1.309 (4.255)*** | 0.045 (0.422) | | | | | -0.654 (1.709)* | -0.006 (1.926)* | -2.289 (2.156)** | -2.129 (2.096)** | -0.001 (4.036)*** | 0.259 (3.74)*** | -0.085 (2.226)** |
| 19 | 0.801 (4.346)*** | -0.045 (-0.418) | 0.021 (0.283) | 0.153 (2.57)** | | | | | | | | | |
| 20 | 0.881 (4.555)*** | 0.003 (0.031) | 0.018 (0.25) | 0.078 (1.441) | | | | -0.006 (1.809)* | | | | 0.305 (5.043)*** | |
| 21 | 1.392 (4.641)*** | 0.007 (0.065) | -0.052 (-0.837) | 0.137 (2.298)** | | | | -0.008 (2.47)** | | | | | -0.115 (3.275)*** |
| 22 | 1.266 (4.217)*** | 0.036 (0.339) | -0.028 (-0.471) | 0.078 (1.479) | | | | -0.007 (2.055)** | | | | 0.231 (3.657)*** | -0.084 (2.283)** |
| 23 | 1.231 (4.104)*** | 0.066 (0.616) | -0.018 (-0.322) | 0.071 (1.32) | | | -0.789 (1.712)* | -0.007 (2.04)** | | | | 0.24 (3.774)*** | -0.082 (2.262)** |
| 24 | 1.201 (4.026)*** | 0.032 (0.31) | -0.022 (-0.382) | 0.07 (1.33) | | | -0.668 (-1.583) | | -2.479 (1.924)* | -2.168 (1.922)* | | 0.246 (3.842)*** | -0.079 (2.187)* |
| 25 | 1.246 (4.176)*** | 0.043 (0.418) | -0.02 (-0.347) | 0.067 (1.279) | | | | -0.007 (2.065)** | -2.453 (1.941)* | -2.105 (1.9)* | | 0.248 (3.876)*** | -0.081 (2.257)** |
| 26 | 1.238 (4.149)*** | 0.034 (0.33) | -0.02 (-0.344) | 0.069 (1.324) | | | -0.659 (-1.582) | -0.007 (1.991)** | -2.452 (1.933)* | -2.129 (1.922)* | | 0.248 (3.887)*** | -0.079 (2.215)** |
| 27 | 1.272 (4.376)*** | 0.088 (0.82) | 0.004 (0.063) | 0.066 (1.239) | | | -0.839 (1.8)* | | | | -0.001 (4.138)*** | 0.227 (3.578)*** | -0.093 (2.689)*** |
| 28 | 1.345 (4.635)*** | 0.061 (0.584) | -0.003 (-0.057) | 0.074 (1.424) | | | | -0.006 (1.93)* | | | -0.001 (4.067)*** | 0.22 (3.514)*** | -0.096 (2.74)*** |
| 29 | 1.312 (4.512)*** | 0.089 (0.838) | 0.006 (0.102) | 0.066 (1.24) | | | -0.83 (1.806)* | -0.006 (1.92)* | | | -0.001 (4.057)*** | 0.229 (3.623)*** | -0.094 (2.717)*** |
| 30 | 1.257 (4.329)*** | 0.075 (0.715) | 0.006 (0.106) | 0.069 (1.292) | | | -0.864 (1.858)* | | | -2.798 (2.209)** | -0.001 (4.096)*** | 0.228 (3.579)*** | -0.09 (2.618)*** |
| 31 | 1.297 (4.479)*** | 0.092 (0.862) | 0.011 (0.192) | 0.067 (1.249) | | | | -0.007 (1.987)** | -2.836 (2.176)** | -0.001 (4.09)*** | -0.001 (3.64)*** | 0.231 (2.694)*** | -0.093 (2.694)*** |
| 32 | 1.294 (4.463)*** | 0.077 (0.735) | 0.008 (0.147) | 0.069 (1.297) | | | -0.853 (1.864)* | -0.006 (1.918)* | | -2.759 (2.216)** | -0.001 (4.02)*** | 0.23 (3.624)*** | -0.09 (2.645)*** |
| 33 | 1.273 (4.395)*** | 0.054 (0.528) | 0.002 (0.043) | 0.065 (1.237) | | | -0.71 (1.693)* | | -2.547 (1.998)** | -2.275 (2.032)** | -0.001 (4.055)*** | 0.235 (3.692)*** | -0.089 (2.595)*** |
| 34 | 1.32 (4.565)*** | 0.066 (0.65) | 0.005 (0.091) | 0.062 (1.193) | | | | -0.006 (1.955)* | -2.528 (2.024)** | -2.217 (2.019)** | -0.001 (4.057)*** | 0.237 (3.733)*** | -0.092 (2.689)*** |
| 35 | 1.309 (4.517)*** | 0.055 (0.548) | 0.004 (0.08) | 0.065 (1.242) | | | -0.701 (1.695)* | -0.006 (1.892)* | -2.518 (2.009)** | -2.235 (2.035)** | -0.001 (3.981)*** | 0.237 (3.74)*** | -0.089 (2.623)*** |
| 36 | 0.792 (4.279)*** | -0.039 (-0.365) | 0.022 (0.309) | 0.151 (2.587)** | -0.009 (-0.2) | 0.067 (1.578) | | | | | | | |
| 37 | 0.875 (4.516)*** | 0.01 (0.097) | 0.018 (0.264) | 0.075 (1.408) | 0.005 (0.108) | 0.027 (0.677) | | -0.006 (1.687)* | | | | 0.309 (5.174)*** | |
| 38 | 1.388 (4.628)*** | 0.015 (0.141) | -0.053 (-0.901) | 0.13 (2.225)** | 0.013 (0.317) | 0.054 (1.268) | | -0.008 (2.377)** | | | | | -0.116 (3.344)*** |
| 39 | 1.263 (4.192)*** | 0.045 (0.43) | -0.027 (-0.489) | 0.07 (1.355) | 0.018 (0.454) | 0.024 (0.613) | | -0.006 (1.942)* | | | | 0.237 (3.754)*** | -0.084 (2.311)** |
| 40 | 1.234 (4.098)*** | 0.068 (0.643) | -0.017 (-0.304) | 0.066 (1.256) | 0.012 (0.307) | 0.019 (0.463) | -0.816 (1.734)* | -0.006 (1.949)* | | | | 0.244 (3.807)*** | -0.083 (2.289)** |
| 41 | 1.217 (4.048)*** | 0.039 (0.378) | -0.022 (-0.403) | 0.063 (1.236) | 0.018 (0.473) | 0.023 (0.577) | -0.716 (-1.559) | | -2.539 (1.845)* | -2.26 (1.887)* | | 0.248 (3.865)*** | -0.081 (2.268)** |
| 42 | 1.252 (4.17)*** | 0.05 (0.479) | -0.02 (-0.37) | 0.063 (1.23) | 0.017 (0.445) | 0.023 (0.604) | | -0.006 (1.964)* | -2.585 (1.897)* | -2.213 (1.893)* | | 0.249 (3.886)*** | -0.083 (2.309)** |
| 43 | 1.252 (4.162)*** | 0.04 (0.387) | -0.02 (-0.361) | 0.063 (1.239) | 0.017 (0.449) | 0.022 (0.566) | -0.705 (-1.56) | -0.006 (1.902)* | -2.509 (1.855)* | -2.217 (1.888)* | | 0.25 (3.905)*** | -0.082 (2.287)** |
| 44 | 1.268 (4.338)*** | 0.089 (0.84) | 0.004 (0.069) | 0.061 (1.172) | 0.005 (0.12) | 0.015 (0.368) | -0.867 (1.82)* | | | | -0.001 (3.987)*** | 0.231 (3.628)*** | -0.092 (2.675)*** |
| 45 | 1.336 (4.581)*** | 0.067 (0.654) | -0.003 (-0.052) | 0.066 (1.295) | 0.009 (0.225) | 0.021 (0.538) | | -0.006 (1.831)* | | | -0.001 (3.943)*** | 0.226 (3.612)*** | -0.095 (2.734)*** |
| 46 | 1.305 (4.467)*** | 0.089 (0.85) | 0.006 (0.111) | 0.061 (1.18) | 0.003 (0.087) | 0.015 (0.368) | -0.858 (1.829)* | -0.006 (1.844)* | | | -0.001 (3.904)*** | 0.233 (3.666)*** | -0.093 (2.695)*** |
| 47 | 1.257 (4.3)*** | 0.078 (0.749) | 0.006 (0.115) | 0.063 (1.213) | 0.006 (0.155) | 0.014 (0.355) | 0.018 (1.848)* | | | -2.833 (2.196)** | -0.001 (3.952)*** | 0.232 (3.64)*** | -0.09 (2.618)*** |
| 48 | 1.297 (4.452)*** | 0.092 (0.869) | 0.007 (0.134) | 0.063 (1.2) | 0.003 (0.068) | 0.016 (0.398) | | -0.006 (1.917)* | -2.836 (2.173)** | -2.237 (2.173)** | -0.001 (3.938)*** | 0.234 (3.682)*** | -0.092 (2.684)*** |
| 49 | 1.293 (4.427)*** | 0.078 (0.759) | 0.009 (0.161) | 0.064 (1.225) | 0.005 (0.123) | 0.014 (0.359) | -0.877 (1.855)* | -0.006 (1.854)* | | -2.791 (2.205)** | -0.001 (3.872)*** | 0.234 (3.679)*** | -0.09 (2.637)*** |
| 50 | 1.281 (4.389)*** | 0.059 (0.571) | 0 (-0.002) | 0.058 (1.146) | 0.01 (0.273) | 0.018 (0.469) | -0.756 (1.657)* | | -2.594 (1.906)* | -2.357 (1.986)** | -0.001 (3.91)*** | 0.238 (3.722)*** | -0.09 (2.637)*** |
| 51 | 1.319 (4.527)*** | 0.07 (0.686) | 0.002 (0.037) | 0.059 (1.148) | 0.008 (0.224) | 0.02 (0.51) | | -0.006 (1.874)* | -2.645 (1.964)* | -2.312 (1.998)** | -0.001 (3.919)*** | 0.238 (3.748)*** | -0.092 (2.696)*** |
| 52 | 1.316 (4.505)*** | 0.059 (0.579) | 0.002 (0.04) | 0.059 (1.16) | 0.009 (0.244) | 0.018 (0.471) | -0.746 (1.661)* | -0.006 (1.822)* | -2.562 (1.917)* | -2.313 (1.99)** | -0.001 (3.835)*** | 0.239 (3.763)*** | -0.09 (2.657)*** |

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{INDew}$ | $\hat{\lambda}_{\beta_{MKTEw}}$ | $\hat{\lambda}_{\beta_{FIRMEw}}$ | $\hat{\lambda}_{IFIRMew}$ | $\hat{\lambda}_{ln.BM}$ | $\hat{\lambda}_{ln.M}$ |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|-------------------------|---------------------------------|----------------------------------|---------------------------|-------------------------|------------------------|
| 1 | 0.865 (4.545)*** | -0.049 (-0.387) | | | | | | | | | | | |
| 2 | 0.856 (4.371)*** | 0.049 (0.405) | | | | | -0.752 (2.119)** | | | | | 0.343 (5.402)*** | |
| 3 | 1.305 (3.996)*** | -0.004 (-0.034) | | | | | -0.75 (2.135)** | | | | | | -0.11 (2.79) |
| 4 | 1.182 (3.606)*** | 0.05 (0.43) | | | | | -0.741 (2.11)** | | | | | 0.26 (3.771)*** | -0.07 (1.83) |
| 5 | 1.22 (3.797)*** | 0.022 (0.188) | | | | | | -0.002 (-0.547) | | | | 0.251 (3.683)*** | -0.07 (1.80) |
| 6 | 1.177 (3.654)*** | 0.059 (0.507) | | | | | -0.729 (2.05)** | -0.002 (-0.509) | | | | 0.261 (3.816)*** | -0.07 (1.8) |
| 7 | 1.206 (3.769)*** | 0.067 (0.592) | | | | | -0.582 (1.992)** | | -1.745 (2.096)** | -10.027 (2.632)*** | | 0.27 (3.952)*** | -0.08 (2.04) |
| 8 | 1.217 (3.837)*** | 0.063 (0.557) | | | | | | -0.002 (-0.487) | -1.791 (2.129)** | -10.074 (2.725)*** | | 0.267 (3.905)*** | -0.08 (2.01) |
| 9 | 1.197 (3.808)*** | 0.075 (0.664) | | | | | -0.576 (1.948)* | -0.002 (-0.419) | -1.787 (2.13)** | -9.995 (2.604)*** | | 0.273 (4.009)*** | -0.08 (2.00) |
| 10 | 1.274 (4.082)*** | 0.085 (0.738) | | | | | -0.734 (2.094)** | | | | -0.001 (4.029)*** | 0.249 (3.638)*** | -0.09 (2.34) |
| 11 | 1.317 (4.298)*** | 0.058 (0.512) | | | | | | -0.001 (-0.311) | | | -0.001 (4.081)*** | 0.239 (3.562)*** | -0.09 (2.34) |
| 12 | 1.268 (4.117)*** | 0.094 (0.812) | | | | | -0.722 (2.036)** | -0.001 (-0.288) | | | -0.001 (4.005)*** | 0.25 (3.688)*** | -0.09 (2.30) |
| 13 | 1.254 (4.021)*** | 0.096 (0.826) | | | | | -0.697 (1.974)** | | | -11.594 (2.475)** | -0.001 (4.051)*** | 0.259 (3.773)*** | -0.09 (2.33) |
| 14 | 1.269 (4.128)*** | 0.116 (0.965) | | | | | | -0.002 (-0.341) | -12.465 (2.463)** | -0.001 (4.033)*** | -0.001 (4.033)*** | 0.259 (3.778)*** | -0.09 (2.38) |
| 15 | 1.247 (4.06)*** | 0.104 (0.897) | | | | | -0.69 (1.931)* | -0.001 (-0.267) | -11.556 (2.447)** | -0.001 (4.013)*** | -0.001 (4.013)*** | 0.262 (3.841)*** | -0.08 (2.28) |
| 16 | 1.28 (4.17)*** | 0.099 (0.888) | | | | | -0.577 (1.985)** | | -1.823 (2.213)** | -9.698 (2.564)** | -0.001 (4.065)*** | 0.26 (3.845)*** | -0.09 (2.48) |
| 17 | 1.293 (4.241)*** | 0.096 (0.862) | | | | | | -0.001 (-0.287) | -1.866 (2.235)** | -9.704 (2.639)*** | -0.001 (4.034)*** | 0.257 (3.804)*** | -0.09 (2.46) |
| 18 | 1.27 (4.197)*** | 0.107 (0.959) | | | | | -0.571 (1.941)* | -0.001 (-0.222) | -1.863 (2.243)** | -9.677 (2.539)** | -0.001 (4.005)*** | 0.263 (3.907)*** | -0.09 (2.44) |
| 19 | 0.801 (4.346)*** | -0.045 (-0.418) | 0.021 (0.283) | 0.153 (2.57)** | | | | | | | | | |
| 20 | 0.854 (4.49)*** | 0.011 (0.104) | 0.017 (0.241) | 0.075 (1.369) | | | | -0.002 (-0.436) | | | | 0.303 (5.046)*** | |
| 21 | 1.342 (4.525)*** | 0.014 (0.125) | -0.053 (-0.846) | 0.133 (2.248)** | | | | -0.003 (-0.776) | | | | | -0.11 (3.19) |
| 22 | 1.22 (4.113)*** | 0.043 (0.406) | -0.028 (-0.472) | 0.074 (1.41) | | | | -0.002 (-0.491) | | | | 0.231 (3.672)*** | -0.08 (2.21) |
| 23 | 1.168 (3.948)*** | 0.072 (0.668) | -0.011 (-0.188) | 0.065 (1.206) | | | -0.704 (1.975)** | -0.002 (-0.49) | | | | 0.241 (3.821)*** | -0.07 (2.12) |
| 24 | 1.202 (4.004)*** | 0.064 (0.621) | -0.019 (-0.323) | 0.06 (1.161) | | | -0.52 (1.928)* | | -1.546 (2.027)** | -9.221 (2.646)*** | | 0.244 (3.832)*** | -0.08 (2.31) |
| 25 | 1.204 (4.067)*** | 0.064 (0.62) | -0.018 (-0.303) | 0.062 (1.205) | | | | -0.002 (-0.408) | -1.609 (2.045)** | -9.305 (2.69)*** | | 0.244 (3.849)*** | -0.08 (2.28) |
| 26 | 1.195 (4.023)*** | 0.071 (0.687) | -0.016 (-0.283) | 0.057 (1.107) | | | -0.517 (1.892)* | -0.002 (-0.367) | -1.583 (2.061)** | -9.202 (2.619)*** | | 0.247 (3.898)*** | -0.08 (2.26) |
| 27 | 1.243 (4.295)*** | 0.091 (0.858) | 0.011 (0.19) | 0.063 (1.188) | | | -0.713 (2.023)** | | | | -0.001 (4.102)*** | 0.228 (3.615)*** | -0.08 (2.55) |
| 28 | 1.288 (4.478)*** | 0.07 (0.665) | -0.002 (-0.036) | 0.07 (1.357) | | | | -0.001 (-0.268) | | | -0.001 (4.041)*** | 0.221 (3.537)*** | -0.09 (2.60) |
| 29 | 1.237 (4.306)*** | 0.098 (0.924) | 0.013 (0.239) | 0.06 (1.136) | | | -0.705 (1.977)** | -0.001 (-0.277) | | | -0.001 (4.051)*** | 0.231 (3.683)*** | -0.08 (2.51) |
| 30 | 1.238 (4.273)*** | 0.104 (0.975) | 0.011 (0.203) | 0.063 (1.194) | | | -0.654 (1.924)* | | | -10.902 (2.443)** | -0.001 (4.104)*** | 0.236 (3.727)*** | -0.09 (2.61) |
| 31 | 1.231 (4.288)*** | 0.119 (1.073) | 0.014 (0.249) | 0.064 (1.201) | | | | -0.001 (-0.284) | -11.778 (2.379)** | -0.001 (4.063)*** | -0.001 (4.063)*** | 0.236 (3.726)*** | -0.09 (2.56) |
| 32 | 1.231 (4.281)*** | 0.111 (1.044) | 0.014 (0.261) | 0.061 (1.162) | | | -0.649 (1.888)* | -0.001 (-0.241) | | -10.878 (2.42)** | -0.001 (4.049)*** | 0.24 (3.798)*** | -0.08 (2.55) |
| 33 | 1.265 (4.343)*** | 0.088 (0.869) | 0.007 (0.123) | 0.056 (1.093) | | | -0.519 (1.93)* | | -1.629 (2.159)** | -8.888 (2.552)** | -0.001 (4.11)*** | 0.234 (3.697)*** | -0.09 (2.67) |
| 34 | 1.266 (4.401)*** | 0.09 (0.882) | 0.008 (0.143) | 0.059 (1.15) | | | | -0.001 (-0.2) | -1.693 (2.167)** | -8.957 (2.585)** | -0.001 (4.065)*** | 0.234 (3.716)*** | -0.09 (2.65) |
| 35 | 1.256 (4.348)*** | 0.095 (0.934) | 0.01 (0.176) | 0.054 (1.051) | | | -0.516 (1.894)* | -0.001 (-0.161) | -1.665 (2.188)** | -8.878 (2.528)** | -0.001 (4.046)*** | 0.237 (3.769)*** | -0.09 (2.62) |
| 36 | 1.223 (4.076)*** | 0.034 (0.32) | -0.03 (-0.506) | 0.078 (1.48) | | | | | | | | 0.229 (3.611)*** | -0.08 (2.25) |
| 37 | 0.847 (4.447)*** | 0.017 (0.167) | 0.018 (0.266) | 0.072 (1.343) | 0.005 (0.129) | 0.023 (0.574) | | -0.001 (-0.294) | | | | 0.308 (5.184)*** | |
| 38 | 1.338 (4.51)*** | 0.022 (0.201) | -0.053 (-0.897) | 0.127 (2.183)** | 0.013 (0.32) | 0.051 (1.18) | | -0.003 (-0.637) | | | | | -0.11 (3.27) |
| 39 | 1.217 (4.088)*** | 0.052 (0.495) | -0.027 (-0.477) | 0.066 (1.294) | 0.018 (0.463) | 0.02 (0.51) | | -0.001 (-0.354) | | | | 0.237 (3.766)*** | -0.08 (2.25) |
| 40 | 1.186 (3.97)*** | 0.074 (0.701) | -0.017 (-0.31) | 0.059 (1.138) | 0.016 (0.408) | 0.013 (0.318) | -0.696 (2.018)** | -0.002 (-0.392) | | | | 0.245 (3.863)*** | -0.08 (2.18) |
| 41 | 1.205 (3.991)*** | 0.066 (0.655) | -0.02 (-0.352) | 0.057 (1.14) | 0.015 (0.395) | 0.018 (0.459) | -0.525 (1.925)* | | -1.62 (2.098)** | -9.297 (2.661)*** | | 0.247 (3.874)*** | -0.08 (2.32) |
| 42 | 1.204 (4.05)*** | 0.069 (0.684) | -0.014 (-0.247) | 0.057 (1.135) | 0.017 (0.449) | 0.013 (0.313) | | -0.001 (-0.323) | -1.713 (2.149)** | -9.56 (2.756)*** | | 0.248 (3.911)*** | -0.08 (2.32) |
| 43 | 1.198 (4.014)*** | 0.072 (0.717) | -0.017 (-0.307) | 0.054 (1.09) | 0.015 (0.383) | 0.015 (0.369) | -0.519 (1.882)* | -0.001 (-0.33) | -1.649 (2.124)** | -9.254 (2.633)*** | | 0.25 (3.929)*** | -0.08 (2.28) |
| 44 | 1.254 (4.291)*** | 0.091 (0.88) | 0.004 (0.075) | 0.057 (1.108) | 0.008 (0.198) | 0.013 (0.316) | -0.709 (2.071)** | | | | -0.001 (3.994)*** | 0.232 (3.674)*** | -0.09 (2.57) |
| 45 | 1.279 (4.426)*** | 0.076 (0.734) | -0.001 (-0.026) | 0.063 (1.237) | 0.01 (0.243) | 0.017 (0.43) | | -0.001 (-0.154) | | | -0.001 (3.935)*** | 0.227 (3.636)*** | -0.09 (2.60) |
| 46 | 1.247 (4.3)*** | 0.098 (0.943) | 0.007 (0.128) | 0.055 (1.064) | 0.007 (0.186) | 0.009 (0.222) | -0.697 (2.02)** | -0.001 (-0.2) | | | -0.001 (3.943)*** | 0.235 (3.736)*** | -0.08 (2.53) |
| 47 | 1.246 (4.268)*** | 0.103 (0.992) | 0.006 (0.113) | 0.059 (1.163) | 0.005 (0.141) | 0.016 (0.399) | -0.658 (1.927)* | | | -10.954 (2.462)** | -0.001 (4.004)*** | 0.24 (3.767)*** | -0.09 (2.62) |
| 48 | 1.233 (4.269)*** | 0.117 (1.082) | 0.013 (0.234) | 0.058 (1.134) | 0.004 (0.11) | 0.01 (0.242) | | -0.001 (-0.178) | | -11.888 (2.428)** | -0.001 (3.952)*** | 0.239 (3.786)*** | -0.09 (2.57) |
| 49 | 1.238 (4.279)*** | 0.11 (1.056) | 0.009 (0.171) | 0.057 (1.133) | 0.005 (0.126) | 0.013 (0.318) | -0.65 (1.887)* | -0.001 (-0.198) | | -10.898 (2.437)** | -0.001 (3.951)*** | 0.242 (3.828)*** | -0.08 (2.57) |
| 50 | 1.263 (4.308)*** | 0.088 (0.889) | 0.005 (0.088) | 0.053 (1.06) | 0.007 (0.188) | 0.014 (0.356) | | | -1.697 (2.221)** | -8.944 (2.562)** | -0.001 (4.007)*** | 0.238 (3.744)*** | -0.09 (2.66) |
| 51 | 1.26 (4.36)*** | 0.093 (0.928) | 0.011 (0.192) | 0.054 (1.073) | 0.009 (0.239) | 0.009 (0.216) | | -0.001 (-0.137) | -1.791 (2.263)** | -9.197 (2.647)*** | -0.001 (3.96)*** | 0.238 (3.788)*** | -0.09 (2.65) |
| 52 | 1.254 (4.319)*** | 0.094 (0.95) | 0.008 (0.141) | 0.051 (1.023) | 0.007 (0.173) | 0.011 (0.278) | -0.517 (1.882)* | -0.001 (-0.148) | -1.725 (2.244)** | -8.907 (2.536)** | -0.001 (3.954)*** | 0.241 (3.807)*** | -0.09 (2.61) |

3.2 SIC-10 divisions

3.2.1 Newey-West t-statistics

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{IINDvw}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | $\hat{\lambda}_{IFIRMvw}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|--------------------------|---------------------------------|----------------------------------|---------------------------|-------------------------|
| 1 | 0.905 (4.528)*** | -0.111 (-0.874) | | | | | | | | | | 1.604 (1.577) |
| 2 | 0.866 (4.274)*** | -0.078 (-0.596) | | | | | -0.441 (-1.575) | | | | | 1.914 (1.86) |
| 3 | 0.978 (4.837)*** | -0.099 (-0.789) | | | | | | -0.021 (2.063)** | | | | 1.936 (1.882) |
| 4 | 0.936 (4.592)*** | -0.065 (-0.506) | | | | | -0.448 (-1.611) | -0.022 (2.156)** | | | | 2.238 (2.158) |
| 5 | 0.843 (4.248)*** | -0.091 (-0.743) | | | | | -0.375 (-1.55) | | -3.235 (2.07)** | -3.229 (2.132)** | | 2.48 (2.373) |
| 6 | 0.927 (4.63)*** | -0.081 (-0.645) | | | | | | -0.023 (2.26)** | -3.471 (2.057)** | -3.554 (2.158)** | | 2.581 (2.474) |
| 7 | 0.921 (4.601)*** | -0.081 (-0.673) | | | | | -0.381 (-1.588) | -0.022 (2.252)** | -3.209 (2.075)** | -3.215 (2.155)** | | 2.783 (2.649) |
| 8 | 0.859 (4.312)*** | -0.04 (-0.316) | | | | | -0.469 (1.687)* | | | | 0 (2.548)** | 2.645 (2.565) |
| 9 | 0.966 (4.882)*** | -0.064 (-0.532) | | | | | | -0.019 (1.943)* | | | 0 (2.467)** | 2.69 (2.61) |
| 10 | 0.928 (4.646)*** | -0.03 (-0.238) | | | | | -0.475 (1.724)* | -0.02 (2.047)** | | | 0 (2.541)** | 2.958 (2.852) |
| 11 | 0.85 (4.277)*** | -0.05 (-0.402) | | | | | -0.427 (1.676)* | | | -3.733 (2.315)** | 0 (2.7)*** | 2.861 (2.755) |
| 12 | 0.92 (4.616)*** | -0.03 (-0.239) | | | | | | -0.021 (2.087)** | | -4.058 (2.31)** | 0 (2.62)*** | 2.96 (2.854) |
| 13 | 0.921 (4.615)*** | -0.04 (-0.331) | | | | | -0.434 (1.715)* | -0.02 (2.076)** | | -3.732 (2.345)** | 0 (2.686)*** | 3.163 (3.03) |
| 14 | 0.838 (4.274)*** | -0.059 (-0.489) | | | | | -0.402 (1.672)* | | -3.392 (2.188)** | -3.431 (2.298)** | 0 (2.928)*** | 3.101 (2.968) |
| 15 | 0.916 (4.644)*** | -0.045 (-0.368) | | | | | | -0.021 (2.145)** | -3.653 (2.185)** | -3.769 (2.322)** | 0 (2.927)*** | 3.227 (3.095) |
| 16 | 0.915 (4.634)*** | -0.051 (-0.429) | | | | | -0.407 (1.712)* | -0.021 (2.149)** | -3.364 (2.195)** | -3.418 (2.325)** | 0 (2.898)*** | 3.395 (3.236) |
| 17 | 0.837 (4.351)*** | -0.09 (-0.824) | -0.017 (-0.229) | 0.146 (2.324)** | | | | | | | | 2.765 (2.685) |
| 18 | 0.917 (4.736)*** | -0.081 (-0.763) | -0.02 (-0.273) | 0.145 (2.353)** | | | | -0.02 (2.048)** | | | | 3.064 (2.958) |
| 19 | 0.875 (4.468)*** | -0.041 (-0.376) | -0.009 (-0.121) | 0.136 (2.193)** | | | -0.404 (-1.565) | -0.02 (2.052)** | | | | 3.27 (3.138) |
| 20 | 0.796 (4.125)*** | -0.056 (-0.53) | -0.004 (-0.059) | 0.138 (2.259)** | | | -0.329 (-1.548) | | -3.005 (2.143)** | -2.892 (2.118)** | | 3.28 (3.121) |
| 21 | 0.872 (4.464)*** | -0.045 (-0.42) | -0.007 (-0.096) | 0.141 (2.312)** | | | | -0.021 (2.182)** | -3.42 (2.032)** | -3.288 (2.036)** | | 3.427 (3.269) |
| 22 | 0.877 (4.488)*** | -0.05 (-0.485) | -0.007 (-0.095) | 0.139 (2.304)** | | | -0.333 (-1.585) | -0.021 (2.165)** | -2.988 (2.148)** | -2.872 (2.132)** | | 3.558 (3.373) |
| 23 | 0.798 (4.15)*** | -0.027 (-0.246) | 0.016 (0.222) | 0.127 (2.053)** | | | -0.423 (-1.643) | | | | 0 (2.931)*** | 3.518 (3.386) |
| 24 | 0.914 (4.781)*** | -0.06 (-0.566) | 0 (0.002) | 0.138 (2.28)** | | | | -0.019 (1.963)* | | | 0 (2.879)*** | 3.605 (3.473) |
| 25 | 0.873 (4.517)*** | -0.021 (-0.192) | 0.013 (0.185) | 0.128 (2.101)** | | | -0.429 (1.677)* | -0.019 (1.968)** | | | 0 (2.915)*** | 3.8 (3.642) |
| 26 | 0.797 (4.157)*** | -0.031 (-0.293) | 0.02 (0.281) | 0.132 (2.141)** | | | -0.374 (1.667)* | | | -3.311 (2.255)** | 0 (2.957)*** | 3.675 (3.517) |
| 27 | 0.871 (4.518)*** | -0.02 (-0.185) | 0.013 (0.189) | 0.134 (2.178)** | | | | -0.02 (2.045)** | | -3.678 (2.151)** | 0 (2.951)*** | 3.805 (3.647) |
| 28 | 0.874 (4.524)*** | -0.026 (-0.248) | 0.016 (0.234) | 0.134 (2.195)** | | | -0.38 (1.707)* | -0.019 (1.992)** | | -3.303 (2.276)** | 0 (2.939)*** | 3.948 (3.764) |
| 29 | 0.799 (4.167)*** | -0.037 (-0.356) | 0.016 (0.238) | 0.13 (2.152)** | | | -0.351 (1.668)* | | -3.113 (2.241)** | -3.054 (2.268)** | 0 (2.96)*** | 3.801 (3.617) |
| 30 | 0.872 (4.507)*** | -0.026 (-0.24) | 0.014 (0.2) | 0.133 (2.216)** | | | | -0.02 (2.101)** | -3.544 (2.129)** | -3.458 (2.172)** | 0 (3.007)*** | 3.946 (3.761) |
| 31 | 0.879 (4.539)*** | -0.032 (-0.318) | 0.013 (0.19) | 0.132 (2.214)** | | | -0.356 (1.708)* | -0.02 (2.089)** | -3.094 (2.248)** | -3.035 (2.287)** | 0 (2.929)*** | 4.071 (3.861) |
| 32 | 0.819 (4.253)*** | -0.075 (-0.686) | -0.014 (-0.197) | 0.141 (2.292)** | -0.006 (-0.138) | 0.075 (1.76)* | | | | | | 3.112 (2.98) |
| 33 | 0.899 (4.65)*** | -0.069 (-0.65) | -0.017 (-0.239) | 0.142 (2.354)** | -0.005 (-0.109) | 0.07 (1.683)* | | -0.019 (1.975)** | | | | 3.387 (3.228) |
| 34 | 0.866 (4.445)*** | -0.037 (-0.337) | -0.007 (-0.102) | 0.137 (2.268)** | -0.013 (-0.287) | 0.064 (1.536) | -0.413 (-1.53) | -0.019 (1.998)** | | | | 3.567 (3.383) |
| 35 | 0.789 (4.077)*** | -0.049 (-0.46) | -0.003 (-0.038) | 0.135 (2.27)** | -0.007 (-0.156) | 0.067 (1.635) | -0.343 (-1.501) | | -3.055 (2.089)** | -2.924 (2.056)** | | 3.554 (3.342) |
| 36 | 0.864 (4.431)*** | -0.039 (-0.36) | -0.007 (-0.094) | 0.139 (2.365)** | -0.01 (-0.235) | 0.065 (1.613) | | -0.02 (2.111)** | -3.387 (2.01)** | -3.234 (1.979)** | | 3.7 (3.489) |
| 37 | 0.869 (4.457)*** | -0.045 (-0.434) | -0.005 (-0.076) | 0.138 (2.35)** | -0.006 (-0.139) | 0.064 (1.585) | -0.343 (-1.527) | -0.02 (2.11)** | -3.026 (2.095)** | -2.887 (2.066)** | | 3.813 (3.575) |
| 38 | 0.786 (4.082)*** | -0.021 (-0.186) | 0.015 (0.216) | 0.128 (2.106)** | -0.021 (-0.473) | 0.064 (1.525) | -0.437 (-1.611) | | | | 0 (2.835)*** | 3.815 (3.631) |
| 39 | 0.895 (4.684)*** | -0.049 (-0.465) | 0.002 (0.036) | 0.135 (2.269)** | -0.012 (-0.264) | 0.067 (1.619) | | -0.018 (1.931)* | | | 0 (2.824)*** | 3.904 (3.72) |
| 40 | 0.862 (4.474)*** | -0.017 (-0.153) | 0.012 (0.177) | 0.13 (2.183)** | -0.02 (-0.451) | 0.061 (1.467) | -0.439 (-1.637) | -0.018 (1.952)* | | | 0 (2.833)*** | 4.078 (3.867) |
| 41 | 0.783 (4.074)*** | -0.021 (-0.191) | 0.018 (0.273) | 0.131 (2.167)** | -0.019 (-0.439) | 0.064 (1.523) | -0.393 (-1.635) | | | -3.406 (2.228)** | 0 (2.839)*** | 3.943 (3.732) |
| 42 | 0.856 (4.446)*** | -0.012 (-0.106) | 0.013 (0.197) | 0.137 (2.268)** | -0.024 (-0.529) | 0.062 (1.498) | | -0.019 (2.028)** | | -3.726 (2.125)** | 0 (2.856)*** | 4.076 (3.866) |
| 43 | 0.861 (4.464)*** | -0.017 (-0.164) | 0.015 (0.227) | 0.134 (2.249)** | -0.018 (-0.416) | 0.061 (1.476) | -0.395 (1.665)* | -0.018 (1.988)** | | -3.381 (2.247)** | 0 (2.836)*** | 4.199 (3.963) |
| 44 | 0.788 (4.102)*** | -0.03 (-0.289) | 0.015 (0.224) | 0.127 (2.171)** | -0.013 (-0.303) | 0.064 (1.558) | 0.064 (-1.608) | | -3.146 (2.167)** | -3.082 (2.19)** | 0 (2.84)*** | 4.059 (3.823) |
| 45 | 0.861 (4.461)*** | -0.02 (-0.184) | 0.012 (0.173) | 0.132 (2.271)** | -0.017 (-0.384) | 0.061 (1.524) | | -0.019 (2.07)** | -3.499 (2.095)** | -3.405 (2.108)** | 0 (2.9)*** | 4.202 (3.966) |
| 46 | 0.868 (4.493)*** | -0.028 (-0.268) | 0.012 (0.176) | 0.131 (2.261)** | -0.012 (-0.284) | 0.061 (1.517) | -0.365 (-1.638) | -0.019 (2.072)** | -3.115 (2.175)** | -3.045 (2.205)** | 0 (2.826)*** | 4.312 (4.05) |

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta MktRF}$ | $\hat{\lambda}_{\beta SMB}$ | $\hat{\lambda}_{\beta HML}$ | $\hat{\lambda}_{\beta RMW}$ | $\hat{\lambda}_{\beta CMA}$ | $\hat{\lambda}_{\beta INDe w}$ | $\hat{\lambda}_{IINDe w}$ | $\hat{\lambda}_{\beta MKTew}$ | $\hat{\lambda}_{\beta FIRMew}$ | $\hat{\lambda}_{IFIRMew}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------------|---------------------------|-------------------------------|--------------------------------|---------------------------|-------------------------|
| 1 | 0.905 (4.528)*** | -0.111 (-0.874) | | | | | | | | | | 1.604 (1.577) |
| 2 | 0.883 (4.416)*** | -0.088 (-0.682) | | | | | -3.668 (1.919)* | | | | | 1.871 (1.817) |
| 3 | 0.926 (4.638)*** | -0.088 (-0.693) | | | | | | -0.018 (-1) | | | | 2.001 (1.947) |
| 4 | 0.905 (4.534)*** | -0.064 (-0.495) | | | | | -3.912 (1.962)* | -0.018 (-1.039) | | | | 2.261 (2.181) |
| 5 | 0.833 (4.13)*** | -0.045 (-0.358) | | | | | -3.649 (2.114)** | | -2.361 (1.956)* | -15.875 (3.123)*** | | 2.35 (2.243) |
| 6 | 0.861 (4.266)*** | -0.03 (-0.23) | | | | | | -0.02 (-1.141) | -2.454 (1.893)* | -16.65 (3.13)*** | | 2.526 (2.419) |
| 7 | 0.859 (4.261)*** | -0.023 (-0.185) | | | | | -3.831 (2.123)** | -0.02 (-1.14) | -2.458 (1.974)** | -16.451 (3.154)*** | | 2.723 (2.59) |
| 8 | 0.868 (4.414)*** | -0.052 (-0.413) | | | | | -3.702 (1.944)* | | | | 0 (2.461)** | 2.594 (2.513) |
| 9 | 0.914 (4.653)*** | -0.053 (-0.434) | | | | | | -0.015 (-0.833) | | | 0 (2.476)** | 2.75 (2.67) |
| 10 | 0.888 (4.525)*** | -0.028 (-0.229) | | | | | -3.945 (1.988)** | -0.015 (-0.883) | | | 0 (2.474)** | 2.975 (2.869) |
| 11 | 0.823 (4.169)*** | -0.014 (-0.113) | | | | | -3.637 (1.998)** | | | -16.233 (2.978)*** | 0 (2.472)** | 2.827 (2.72) |
| 12 | 0.851 (4.326)*** | 0 (-0.002) | | | | | | -0.016 (-0.888) | | -16.399 (3.012)*** | 0 (2.461)** | 2.998 (2.892) |
| 13 | 0.843 (4.283)*** | 0.009 (0.068) | | | | | -3.834 (2.018)** | -0.016 (-0.905) | | -16.805 (3.002)*** | 0 (2.481)** | 3.202 (3.069) |
| 14 | 0.818 (4.11)*** | -0.015 (-0.121) | | | | | -3.59 (2.091)** | | -2.498 (2.084)** | -15.436 (3.055)*** | 0 (2.484)** | 3.015 (2.882) |
| 15 | 0.846 (4.243)*** | 0.002 (0.016) | | | | | | -0.017 (-0.997) | -2.605 (2.028)** | -16.131 (3.06)*** | 0 (2.481)** | 3.208 (3.076) |
| 16 | 0.842 (4.237)*** | 0.006 (0.05) | | | | | -3.768 (2.099)** | -0.017 (-1.01) | -2.597 (2.1)** | -16.023 (3.09)*** | 0 (2.491)** | 3.379 (3.221) |
| 17 | 0.837 (4.351)*** | -0.09 (-0.824) | -0.017 (-0.229) | 0.146 (2.324)** | | | | | | | | 2.765 (2.685) |
| 18 | 0.863 (4.487)*** | -0.071 (-0.658) | -0.017 (-0.226) | 0.139 (2.239)** | | | | -0.017 (-0.96) | | | | 3.131 (3.025) |
| 19 | 0.845 (4.394)*** | -0.057 (-0.506) | -0.012 (-0.166) | 0.135 (2.18)** | | | -3.828 (1.837)* | -0.016 (-0.931) | | | | 3.275 (3.142) |
| 20 | 0.775 (3.987)*** | -0.039 (-0.351) | -0.004 (-0.057) | 0.135 (2.135)** | | | -3.415 (1.985)** | | -2.312 (1.948)* | -15.954 (3.195)*** | | 3.271 (3.112) |
| 21 | 0.805 (4.136)*** | -0.022 (-0.199) | -0.004 (-0.06) | 0.134 (2.135)** | | | | -0.017 (-0.983) | -2.377 (1.945)* | -16.791 (3.269)*** | | 3.507 (3.349) |
| 22 | 0.8 (4.117)*** | -0.022 (-0.2) | -0.003 (-0.038) | 0.131 (2.087)** | | | -3.593 (1.998)** | -0.016 (-0.973) | -2.409 (1.969)** | -16.557 (3.224)*** | | 3.612 (3.427) |
| 23 | 0.818 (4.288)*** | -0.054 (-0.473) | 0.007 (0.099) | 0.133 (2.155)** | | | -3.596 (1.805)* | | | | 0 (2.913)*** | 3.455 (3.323) |
| 24 | 0.859 (4.513)*** | -0.049 (-0.458) | 0.003 (0.048) | 0.131 (2.161)** | | | | -0.014 (-0.812) | | | 0 (2.903)*** | 3.67 (3.538) |
| 25 | 0.84 (4.409)*** | -0.034 (-0.306) | 0.008 (0.117) | 0.127 (2.09)** | | | -3.858 (1.856)* | -0.013 (-0.786) | | | 0 (2.931)*** | 3.807 (3.649) |
| 26 | 0.776 (4.074)*** | -0.019 (-0.169) | 0.014 (0.196) | 0.126 (1.99)** | | | -3.433 (1.805)* | | | -16.235 (2.944)*** | 0 (2.951)*** | 3.637 (3.479) |
| 27 | 0.804 (4.227)*** | -0.001 (-0.009) | 0.013 (0.18) | 0.123 (1.958)* | | | | -0.014 (-0.794) | | -17.021 (3.008)*** | 0 (2.97)*** | 3.871 (3.713) |
| 28 | 0.799 (4.187)*** | -0.001 (-0.008) | 0.015 (0.22) | 0.121 (1.935)* | | | -3.645 (1.834)* | -0.014 (-0.804) | | -16.861 (2.965)*** | 0 (2.97)*** | 3.98 (3.796) |
| 29 | 0.775 (4.017)*** | -0.018 (-0.161) | 0.016 (0.226) | 0.128 (2.058)** | | | -3.342 (1.95)* | | -2.428 (2.058)** | -15.397 (3.103)*** | 0 (2.929)*** | 3.792 (3.608) |
| 30 | 0.803 (4.158)*** | -0.001 (-0.012) | 0.017 (0.237) | 0.126 (2.055)** | | | | -0.014 (-0.855) | -2.496 (2.062)** | -16.126 (3.176)*** | 0 (2.946)*** | 4.022 (3.838) |
| 31 | 0.799 (4.141)*** | -0.001 (-0.013) | 0.017 (0.246) | 0.124 (2.019)** | | | -3.516 (1.961)* | -0.014 (-0.851) | -2.526 (2.075)** | -16.013 (3.137)*** | 0 (2.948)*** | 4.125 (3.915) |
| 32 | 0.819 (4.253)*** | -0.075 (-0.686) | -0.014 (-0.197) | 0.141 (2.292)** | -0.006 (-0.138) | 0.075 (1.76)* | | | | | | 3.112 (2.98) |
| 33 | 0.843 (4.378)*** | -0.058 (-0.542) | -0.014 (-0.195) | 0.135 (2.236)** | -0.005 (-0.102) | 0.066 (1.572) | | -0.014 (-0.834) | | | | 3.446 (3.288) |
| 34 | 0.829 (4.293)*** | -0.047 (-0.411) | -0.013 (-0.176) | 0.136 (2.243)** | -0.009 (-0.193) | 0.065 (1.544) | -3.941 (1.765)* | -0.014 (-0.832) | | | | 3.59 (3.405) |
| 35 | 0.768 (3.948)*** | -0.03 (-0.268) | -0.007 (-0.103) | 0.136 (2.212)** | -0.008 (-0.162) | 0.065 (1.535) | -3.482 (1.856)* | | -2.448 (1.94)* | -16.786 (3.131)*** | | 3.565 (3.354) |
| 36 | 0.793 (4.08)*** | -0.014 (-0.128) | -0.004 (-0.057) | 0.134 (2.207)** | -0.006 (-0.133) | 0.057 (1.347) | | -0.014 (-0.884) | -2.464 (1.982)** | -17.312 (3.29)*** | | 3.772 (3.562) |
| 37 | 0.792 (4.078)*** | -0.016 (-0.141) | -0.007 (-0.091) | 0.133 (2.184)** | -0.007 (-0.152) | 0.057 (1.361) | -3.636 (1.884)* | -0.014 (-0.882) | -2.521 (1.955)* | -17.262 (3.159)*** | | 3.88 (3.643) |
| 38 | 0.803 (4.186)*** | -0.042 (-0.368) | 0.006 (0.084) | 0.132 (2.179)** | -0.017 (-0.359) | 0.07 (1.651)* | -3.721 (1.728)* | | | | 0 (2.845)*** | 3.775 (3.591) |
| 39 | 0.838 (4.393)*** | -0.038 (-0.353) | 0.005 (0.078) | 0.128 (2.147)** | -0.011 (-0.245) | 0.063 (1.505) | | -0.012 (-0.723) | | | 0 (2.85)*** | 3.962 (3.778) |
| 40 | 0.823 (4.302)*** | -0.025 (-0.223) | 0.007 (0.105) | 0.127 (2.138)** | -0.015 (-0.33) | 0.061 (1.46) | -3.951 (1.783)* | -0.012 (-0.723) | | | 0 (2.874)*** | 4.098 (3.888) |
| 41 | 0.766 (4.007)*** | -0.011 (-0.096) | 0.01 (0.152) | 0.124 (2.019)** | -0.014 (-0.313) | 0.062 (1.44) | -3.486 (1.743)* | | | -16.883 (2.928)*** | 0 (2.847)*** | 3.935 (3.724) |
| 42 | 0.788 (4.136)*** | 0.007 (0.059) | 0.013 (0.192) | 0.124 (2.023)** | -0.014 (-0.3) | 0.052 (1.219) | | -0.012 (-0.722) | | -17.892 (2.985)*** | 0 (2.892)*** | 4.14 (3.93) |
| 43 | 0.788 (4.127)*** | 0.005 (0.04) | 0.012 (0.173) | 0.12 (1.985)** | -0.014 (-0.296) | 0.053 (1.256) | -3.66 (1.776)* | -0.012 (-0.741) | | -17.361 (2.949)*** | 0 (2.878)*** | 4.251 (4.015) |
| 44 | 0.765 (3.962)*** | -0.009 (-0.086) | 0.012 (0.179) | 0.128 (2.115)** | -0.014 (-0.303) | 0.061 (1.444) | -3.397 (1.818)* | | -2.561 (2.037)** | -16.262 (3.051)*** | 0 (2.828)*** | 4.066 (3.83) |
| 45 | 0.789 (4.088)*** | 0.006 (0.053) | 0.016 (0.236) | 0.127 (2.115)** | -0.012 (-0.273) | 0.053 (1.264) | | -0.013 (-0.786) | -2.582 (2.093)** | -16.769 (3.217)*** | 0 (2.856)*** | 4.27 (4.034) |
| 46 | 0.789 (4.09)*** | 0.004 (0.04) | 0.013 (0.192) | 0.125 (2.093)** | -0.013 (-0.292) | 0.053 (1.276) | -3.548 (1.845)* | -0.012 (-0.79) | -2.634 (2.051)** | -16.745 (3.081)*** | 0 (2.857)*** | 4.375 (4.113) |

3.2.2
Newey-West t-statistics, controls

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{INDvw}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | $\hat{\lambda}_{IFIRMvw}$ | $\hat{\lambda}_{ln.BM}$ | $\hat{\lambda}_{ln.ME}$ |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|-------------------------|---------------------------------|----------------------------------|---------------------------|-------------------------|-------------------------|
| 1 | 0.869 (4.569)*** | -0.053 (-0.416) | | | | | | | | | | | |
| 2 | 1.16 (3.534)*** | 0.045 (0.376) | | | | | -0.361 (-1.487) | | | | | 0.276 (4.005)*** | -0.071 (1.694)* |
| 3 | 0.977 (4.94)*** | 0.015 (0.123) | | | | | | -0.026 (2.32)** | | | | 0.347 (5.59)*** | |
| 4 | 1.415 (4.281)*** | -0.036 (-0.29) | | | | | | -0.026 (2.44)** | | | | | -0.11 (2.773)** |
| 5 | 1.297 (3.899)*** | 0.015 (0.133) | | | | | | -0.026 (2.441)** | | | | 0.264 (3.91)*** | -0.076 (1.809) |
| 6 | 1.232 (3.69)*** | 0.053 (0.45) | | | | | -0.364 (-1.502) | -0.026 (2.487)** | | | | 0.282 (4.133)*** | -0.071 (1.701)* |
| 7 | 1.171 (3.653)*** | 0.029 (0.262) | | | | | -0.253 (-1.257) | | -2.302 (1.942)* | -2.388 (1.881)* | | 0.28 (4.016)*** | -0.071 (1.757)* |
| 8 | 1.272 (3.866)*** | 0.026 (0.234) | | | | | | -0.027 (2.575)** | -2.272 (2.053)** | -2.454 (1.972)** | | 0.287 (4.147)*** | -0.072 (1.778)* |
| 9 | 1.251 (3.822)*** | 0.036 (0.324) | | | | | -0.253 (-1.266) | -0.027 (2.577)** | -2.281 (1.942)* | -2.351 (1.869)* | | 0.287 (4.158)*** | -0.071 (1.771)* |
| 10 | 1.272 (4.044)*** | 0.08 (0.68) | | | | | -0.381 (-1.574) | | | | -0.001 (4.265)*** | 0.262 (3.826)*** | -0.089 (2.529)** |
| 11 | 1.398 (4.433)*** | 0.051 (0.446) | | | | | | -0.024 (2.337)** | | | -0.001 (4.183)*** | 0.251 (3.786)*** | -0.093 (2.376)** |
| 12 | 1.339 (4.189)*** | 0.087 (0.749) | | | | | -0.383 (-1.591) | -0.024 (2.398)** | | | -0.001 (4.198)*** | 0.268 (3.966)*** | -0.088 (2.25)** |
| 13 | 1.254 (4.01)*** | 0.071 (0.624) | | | | | -0.342 (-1.562) | | | -3.14 (2.181)** | -0.001 (4.309)*** | 0.265 (3.845)*** | -0.086 (2.209)** |
| 14 | 1.327 (4.179)*** | 0.085 (0.724) | | | | | | -0.025 (2.432)** | -3.457 (2.16)** | -0.001 (4.202)*** | | 0.272 (3.992)*** | -0.087 (2.221)** |
| 15 | 1.322 (4.159)*** | 0.077 (0.688) | | | | | -0.343 (-1.576) | -0.025 (2.44)** | -3.119 (2.184)** | -0.001 (4.239)*** | | 0.271 (3.987)*** | -0.085 (2.201)** |
| 16 | 1.263 (4.08)*** | 0.061 (0.556) | | | | | -0.27 (-1.351) | | -2.372 (2.023)** | -2.498 (1.983)** | -0.001 (4.254)*** | 0.265 (3.837)*** | -0.085 (2.23)** |
| 17 | 1.36 (4.311)*** | 0.061 (0.555) | | | | | | -0.025 (2.483)** | -2.362 (2.163)** | -2.591 (2.103)** | -0.001 (4.204)*** | 0.273 (3.998)*** | -0.087 (2.27)** |
| 18 | 1.338 (4.237)*** | 0.066 (0.613) | | | | | -0.27 (-1.362) | -0.025 (2.497)** | -2.351 (2.025)** | -2.465 (1.978)** | -0.001 (4.179)*** | 0.272 (3.99)*** | -0.085 (2.228)** |
| 19 | 0.804 (4.361)*** | -0.048 (-0.443) | 0.021 (0.289) | 0.154 (2.573)** | | | | | | | | | |
| 20 | 0.941 (4.845)*** | 0.004 (0.038) | 0.016 (0.228) | 0.083 (1.524) | | | | -0.025 (2.319)** | | | | 0.312 (5.253)*** | |
| 21 | 1.427 (4.678)*** | 0.01 (0.09) | -0.055 (-0.89) | 0.141 (2.391)** | | | | -0.027 (2.533)** | | | | | -0.116 (3.294)** |
| 22 | 1.31 (4.286)*** | 0.037 (0.353) | -0.03 (-0.517) | 0.082 (1.559) | | | | -0.026 (2.51)** | | | | 0.24 (3.847)*** | -0.083 (2.26)** |
| 23 | 1.265 (4.128)*** | 0.066 (0.629) | -0.016 (-0.27) | 0.069 (1.306) | | | -0.329 (-1.523) | -0.026 (2.527)** | | | | 0.251 (3.999)*** | -0.08 (2.207)** |
| 24 | 1.188 (3.965)*** | 0.042 (0.405) | -0.015 (-0.256) | 0.066 (1.257) | | | -0.237 (-1.277) | | -2.328 (1.888)* | -2.311 (1.857)* | | 0.254 (3.992)*** | -0.078 (2.144)** |
| 25 | 1.294 (4.246)*** | 0.046 (0.444) | -0.022 (-0.387) | 0.073 (1.387) | | | | -0.027 (2.579)** | -2.439 (1.889)* | -2.47 (1.852)* | | 0.258 (4.083)*** | -0.081 (2.254)** |
| 26 | 1.273 (4.154)*** | 0.046 (0.455) | -0.015 (-0.271) | 0.071 (1.375) | | | -0.237 (-1.287) | -0.026 (2.578)** | -2.307 (1.891)* | -2.267 (1.84)* | | 0.26 (4.107)*** | -0.078 (2.171)** |
| 27 | 1.256 (4.31)*** | 0.086 (0.808) | 0.01 (0.184) | 0.059 (1.109) | | | -0.348 (-1.604) | | | | -0.001 (4.273)*** | 0.235 (3.744)*** | -0.09 (2.583)** |
| 28 | 1.381 (4.678)*** | 0.063 (0.599) | -0.005 (-0.089) | 0.078 (1.501) | | | | -0.024 (2.429)** | | | -0.001 (4.173)*** | 0.23 (3.709)*** | -0.093 (2.661)** |
| 29 | 1.337 (4.499)*** | 0.09 (0.86) | 0.01 (0.173) | 0.064 (1.219) | | | -0.349 (-1.619) | -0.025 (2.46)** | | | -0.001 (4.186)*** | 0.24 (3.852)*** | -0.09 (2.596)** |
| 30 | 1.253 (4.303)*** | 0.078 (0.75) | 0.013 (0.236) | 0.066 (1.242) | | | -0.319 (-1.637) | | | -2.956 (2.216)** | -0.001 (4.293)*** | 0.235 (3.711)*** | -0.089 (2.574)** |
| 31 | 1.337 (4.527)*** | 0.093 (0.871) | 0.008 (0.147) | 0.071 (1.33) | | | | -0.025 (2.48)** | -3.284 (2.123)** | -0.001 (4.192)*** | | 0.241 (3.838)*** | -0.091 (2.63)*** |
| 32 | 1.332 (4.484)*** | 0.081 (0.797) | 0.012 (0.222) | 0.072 (1.365) | | | -0.318 (1.654)* | -0.024 (2.457)** | | | -0.001 (4.205)*** | 0.24 (3.829)*** | -0.089 (2.579)** |
| 33 | 1.258 (4.319)*** | 0.064 (0.634) | 0.012 (0.213) | 0.06 (1.155) | | | -0.252 (-1.367) | | -2.38 (1.953)* | -2.41 (1.951)* | -0.001 (4.18)*** | 0.243 (3.829)*** | -0.087 (2.522)** |
| 34 | 1.361 (4.606)*** | 0.069 (0.679) | 0.003 (0.06) | 0.067 (1.291) | | | | -0.025 (2.507)** | -2.512 (1.969)** | -2.604 (1.967)** | -0.001 (4.15)*** | 0.248 (3.947)*** | -0.091 (2.628)** |
| 35 | 1.338 (4.5)*** | 0.068 (0.679) | 0.011 (0.197) | 0.066 (1.283) | | | -0.252 (-1.38) | -0.025 (2.514)** | -2.358 (1.958)* | -2.37 (1.94)* | -0.001 (4.093)*** | 0.249 (3.953)*** | -0.088 (2.53)** |
| 36 | 0.793 (4.283)*** | -0.04 (-0.376) | 0.023 (0.32) | 0.152 (2.594)*** | -0.007 (-0.16) | 0.067 (1.577) | | | | | | | |
| 37 | 0.934 (4.808)*** | 0.012 (0.116) | 0.016 (0.239) | 0.08 (1.504) | 0.008 (0.18) | 0.025 (0.616) | | -0.024 (2.21)** | | | | 0.318 (5.408)*** | |
| 38 | 1.424 (4.673)*** | 0.019 (0.175) | -0.056 (-0.954) | 0.135 (2.336)** | 0.017 (0.398) | 0.051 (1.206) | | -0.025 (2.431)** | | | | | -0.117 (3.372)** |
| 39 | 1.307 (4.268)*** | 0.047 (0.456) | -0.03 (-0.538) | 0.075 (1.452) | 0.02 (0.517) | 0.022 (0.544) | | -0.024 (2.403)** | | | | 0.247 (3.959)*** | -0.084 (2.294)** |
| 40 | 1.271 (4.139)*** | 0.069 (0.663) | -0.017 (-0.308) | 0.066 (1.275) | 0.016 (0.404) | 0.012 (0.306) | -0.339 (-1.506) | -0.025 (2.447)** | | | | 0.253 (4.02)*** | -0.081 (2.241)** |
| 41 | 1.211 (4.014)*** | 0.044 (0.436) | -0.017 (-0.303) | 0.062 (1.205) | 0.021 (0.551) | 0.021 (0.546) | -0.249 (-1.266) | | -2.316 (1.853)* | -2.352 (1.85)* | | 0.255 (3.998)*** | -0.081 (2.239)** |
| 42 | 1.303 (4.246)*** | 0.052 (0.503) | -0.023 (-0.416) | 0.068 (1.334) | 0.019 (0.488) | 0.022 (0.574) | | -0.025 (2.502)** | -2.512 (1.886)* | -2.565 (1.876)* | | 0.26 (4.113)*** | -0.083 (2.306)** |
| 43 | 1.296 (4.203)*** | 0.047 (0.466) | -0.018 (-0.329) | 0.068 (1.341) | 0.02 (0.538) | 0.019 (0.508) | -0.247 (-1.272) | -0.025 (2.521)** | -2.294 (1.857)* | -2.304 (1.835)* | | 0.261 (4.124)*** | -0.081 (2.259)** |
| 44 | 1.254 (4.282)*** | 0.088 (0.849) | 0.008 (0.147) | 0.055 (1.069) | 0.007 (0.181) | 0.011 (0.275) | -0.361 (-1.588) | | | | -0.001 (4.145)*** | 0.237 (3.773)*** | -0.089 (2.582)** |
| 45 | 1.374 (4.632)*** | 0.07 (0.682) | -0.005 (-0.089) | 0.071 (1.385) | 0.011 (0.284) | 0.019 (0.471) | | -0.023 (2.356)** | | | -0.001 (4.074)*** | 0.237 (3.821)*** | -0.093 (2.665)** |
| 46 | 1.335 (4.479)*** | 0.091 (0.884) | 0.007 (0.122) | 0.061 (1.192) | 0.007 (0.175) | 0.009 (0.222) | -0.357 (-1.594) | -0.024 (2.409)** | | | -0.001 (4.066)*** | 0.243 (3.885)*** | -0.09 (2.592)** |
| 47 | 1.257 (4.285)*** | 0.081 (0.786) | 0.01 (0.184) | 0.063 (1.197) | 0.007 (0.189) | 0.014 (0.36) | -0.347 (-1.574) | | -3.08 (2.149)** | -0.001 (4.128)*** | | 0.238 (3.75)*** | -0.089 (2.593)** |
| 48 | 1.336 (4.5)*** | 0.093 (0.887) | 0.005 (0.098) | 0.068 (1.295) | 0.005 (0.128) | 0.013 (0.338) | | -0.024 (2.429)** | -3.288 (2.13)** | -0.001 (4.062)*** | | 0.245 (3.894)*** | -0.091 (2.621)** |
| 49 | 1.337 (4.475)*** | 0.083 (0.817) | 0.008 (0.158) | 0.069 (1.329) | 0.007 (0.182) | 0.012 (0.321) | -0.344 (-1.582) | -0.024 (2.427)** | | -3.032 (2.143)** | -0.001 (4.049)*** | 0.244 (3.874)*** | -0.09 (2.599)** |
| 50 | 1.273 (4.342)*** | 0.064 (0.64) | 0.006 (0.12) | 0.056 (1.106) | 0.012 (0.331) | 0.017 (0.445) | -0.263 (-1.347) | | -2.358 (1.908)* | -2.444 (1.938)* | -0.001 (4.047)*** | 0.244 (3.853)*** | -0.089 (2.578)** |
| 51 | 1.362 (4.578)*** | 0.073 (0.715) | 0 (0.001) | 0.063 (1.24) | 0.01 (0.269) | 0.018 (0.474) | | -0.024 (2.462)** | -2.569 (1.955)* | -2.685 (1.983)** | -0.001 (4.023)*** | 0.25 (3.98)*** | -0.091 (2.643)** |
| 52 | 1.355 (4.527)*** | 0.066 (0.667) | 0.005 (0.092) | 0.063 (1.25) | 0.012 (0.317) | 0.016 (0.417) | -0.261 (-1.355) | -0.024 (2.486)** | -2.334 (1.914)* | -2.399 (1.927)* | -0.001 (3.969)*** | 0.251 (3.985)*** | -0.089 (2.584)** |

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{INDew}$ | $\hat{\lambda}_{\beta_{MKTw}}$ | $\hat{\lambda}_{\beta_{FIRMew}}$ | $\hat{\lambda}_{IFIRMew}$ | $\hat{\lambda}_{ln.BM}$ | $\hat{\lambda}_{ln.M}$ |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|-------------------------|--------------------------------|----------------------------------|---------------------------|-------------------------|------------------------|
| 1 | 0.869 (4.569)*** | -0.053 (-0.416) | | | | | | | | | | | |
| 2 | 0.904 (4.659)*** | 0 (0.001) | | | | | -3.347 (2.707)*** | | | | | 0.334 (5.275)*** | |
| 3 | 1.347 (4.1)*** | -0.041 (-0.338) | | | | | -3.668 (2.74)*** | | | | | | -0.10 (2.74) |
| 4 | 1.231 (3.736)*** | 0.007 (0.066) | | | | | -3.499 (2.699)*** | | | | | 0.251 (3.636)*** | -0.07 (1.83) |
| 5 | 1.248 (3.811)*** | 0.021 (0.183) | | | | | | -0.018 (-1.091) | | | | 0.263 (3.907)*** | -0.07 (1.78) |
| 6 | 1.256 (3.796)*** | 0.022 (0.195) | | | | | -3.561 (2.687)*** | -0.019 (-1.173) | | | | 0.257 (3.782)*** | -0.07 (1.81) |
| 7 | 1.242 (3.767)*** | 0.036 (0.325) | | | | | -3.132 (2.894)*** | | -1.522 (2.314)** | -10.551 (3.092)*** | | 0.263 (3.738)*** | -0.08 (1.96) |
| 8 | 1.24 (3.78)*** | 0.058 (0.502) | | | | | | -0.018 (-1.146) | -1.808 (2.088)** | -12.251 (3.201)*** | | 0.28 (4.045)*** | -0.07 (1.87) |
| 9 | 1.273 (3.837)*** | 0.048 (0.439) | | | | | -3.13 (2.857)*** | -0.019 (-1.172) | -1.581 (2.371)** | -11.011 (3.195)*** | | 0.269 (3.871)*** | -0.08 (1.96) |
| 10 | 1.322 (4.231)*** | 0.043 (0.392) | | | | | -3.493 (2.714)*** | | | | -0.001 (4.166)*** | 0.237 (3.498)*** | -0.09 (2.36) |
| 11 | 1.344 (4.324)*** | 0.058 (0.505) | | | | | | -0.015 (-0.9) | | | -0.001 (4.186)*** | 0.25 (3.781)*** | -0.09 (2.32) |
| 12 | 1.345 (4.286)*** | 0.057 (0.523) | | | | | -3.553 (2.699)*** | -0.016 (-0.994) | | | -0.001 (4.149)*** | 0.244 (3.65)*** | -0.09 (2.33) |
| 13 | 1.294 (4.115)*** | 0.071 (0.635) | | | | | -3.443 (2.869)*** | | | -10.584 (3.022)*** | -0.001 (4.163)*** | 0.251 (3.605)*** | -0.09 (2.34) |
| 14 | 1.282 (4.119)*** | 0.107 (0.882) | | | | | | -0.016 (-0.973) | | -14.218 (2.79)*** | -0.001 (4.198)*** | 0.27 (3.942)*** | -0.08 (2.26) |
| 15 | 1.317 (4.17)*** | 0.086 (0.766) | | | | | -3.447 (2.819)*** | -0.016 (-0.978) | | -11.018 (3.11)*** | -0.001 (4.14)*** | 0.258 (3.758)*** | -0.09 (2.32) |
| 16 | 1.309 (4.162)*** | 0.067 (0.622) | | | | | -3.127 (2.912)*** | | -1.596 (2.442)** | -10.127 (2.993)*** | -0.001 (4.173)*** | 0.252 (3.647)*** | -0.09 (2.39) |
| 17 | 1.317 (4.207)*** | 0.09 (0.801) | | | | | | -0.016 (-0.987) | -1.883 (2.192)** | -11.814 (3.105)*** | -0.001 (4.209)*** | 0.269 (3.955)*** | -0.09 (2.32) |
| 18 | 1.337 (4.227)*** | 0.08 (0.738) | | | | | -3.123 (2.869)*** | -0.016 (-1.024) | -1.656 (2.497)** | -10.592 (3.098)*** | -0.001 (4.142)*** | 0.259 (3.789)*** | -0.09 (2.38) |
| 19 | 0.804 (4.361)*** | -0.048 (-0.443) | 0.021 (0.289) | 0.154 (2.573)** | | | | | | | | | |
| 20 | 0.895 (4.693)*** | 0.01 (0.092) | 0.018 (0.242) | 0.079 (1.449) | | | | -0.019 (-1.163) | | | | 0.311 (5.293)*** | |
| 21 | 1.373 (4.58)*** | 0.015 (0.138) | -0.054 (-0.87) | 0.137 (2.329)** | | | | -0.02 (-1.212) | | | | | -0.11 (3.25) |
| 22 | 1.255 (4.179)*** | 0.043 (0.401) | -0.029 (-0.486) | 0.078 (1.484) | | | | -0.018 (-1.144) | | | | 0.24 (3.866)*** | -0.08 (2.22) |
| 23 | 1.27 (4.215)*** | 0.037 (0.365) | -0.03 (-0.511) | 0.075 (1.453) | | | -3.35 (2.573)** | -0.02 (-1.271) | | | | 0.244 (3.876)*** | -0.08 (2.27) |
| 24 | 1.216 (4.027)*** | 0.037 (0.369) | -0.022 (-0.38) | 0.064 (1.221) | | | -2.887 (2.726)*** | | -1.398 (2.235)** | -10.302 (3.175)*** | | 0.244 (3.809)*** | -0.08 (2.27) |
| 25 | 1.231 (4.093)*** | 0.057 (0.549) | -0.022 (-0.375) | 0.067 (1.27) | | | | -0.018 (-1.157) | -1.622 (2.03)** | -11.918 (3.34)*** | | 0.252 (4.008)*** | -0.08 (2.21) |
| 26 | 1.247 (4.115)*** | 0.046 (0.463) | -0.021 (-0.366) | 0.067 (1.284) | | | -2.881 (2.687)*** | -0.019 (-1.2) | -1.452 (2.283)** | -10.763 (3.274)*** | | 0.249 (3.924)*** | -0.08 (2.26) |
| 27 | 1.303 (4.482)*** | 0.051 (0.512) | -0.007 (-0.122) | 0.068 (1.327) | | | -3.283 (2.587)** | | | | -0.001 (4.213)*** | 0.228 (3.606)*** | -0.09 (2.66) |
| 28 | 1.321 (4.55)*** | 0.069 (0.655) | -0.003 (-0.053) | 0.074 (1.418) | | | | -0.015 (-0.959) | | | -0.001 (4.19)*** | 0.23 (3.725)*** | -0.09 (2.6) |
| 29 | 1.332 (4.571)*** | 0.063 (0.627) | -0.005 (-0.098) | 0.07 (1.369) | | | -3.344 (2.576)** | -0.017 (-1.094) | | | -0.001 (4.178)*** | 0.234 (3.734)*** | -0.09 (2.64) |
| 30 | 1.259 (4.324)*** | 0.077 (0.751) | 0.004 (0.066) | 0.06 (1.123) | | | -3.175 (2.677)*** | | | -10.096 (2.976)*** | -0.001 (4.186)*** | 0.236 (3.702)*** | -0.09 (2.59) |
| 31 | 1.26 (4.355)*** | 0.111 (0.995) | 0.009 (0.157) | 0.065 (1.2) | | | | -0.016 (-1.008) | | -13.976 (2.877)*** | -0.001 (4.197)*** | 0.243 (3.879)*** | -0.08 (2.51) |
| 32 | 1.286 (4.402)*** | 0.089 (0.865) | 0.005 (0.097) | 0.062 (1.176) | | | -3.174 (2.631)*** | -0.016 (-1.057) | | -10.55 (3.065)*** | -0.001 (4.153)*** | 0.241 (3.824)*** | -0.09 (2.57) |
| 33 | 1.273 (4.353)*** | 0.062 (0.633) | 0.002 (0.039) | 0.06 (1.153) | | | -2.872 (2.731)*** | | -1.48 (2.376)** | -9.856 (3.05)*** | -0.001 (4.18)*** | 0.233 (3.666)*** | -0.09 (2.61) |
| 34 | 1.291 (4.429)*** | 0.082 (0.802) | 0.004 (0.068) | 0.063 (1.202) | | | | -0.015 (-0.99) | -1.7 (2.143)** | -11.463 (3.221)*** | -0.001 (4.221)*** | 0.241 (3.873)*** | -0.08 (2.56) |
| 35 | 1.301 (4.431)*** | 0.071 (0.726) | 0.003 (0.063) | 0.063 (1.224) | | | -2.863 (2.686)*** | -0.016 (-1.043) | -1.534 (2.422)** | -10.327 (3.154)*** | -0.001 (4.143)*** | 0.239 (3.788)*** | -0.09 (2.6) |
| 36 | 1.221 (4.073)*** | 0.032 (0.296) | -0.029 (-0.487) | 0.077 (1.465) | | | | | | | | 0.235 (3.744)*** | -0.08 (2.21) |
| 37 | 0.886 (4.643)*** | 0.018 (0.176) | 0.018 (0.255) | 0.076 (1.424) | 0.008 (0.19) | 0.022 (0.543) | | -0.016 (-1.02) | | | | 0.317 (5.447)*** | |
| 38 | 1.368 (4.565)*** | 0.025 (0.228) | -0.055 (-0.932) | 0.131 (2.27)** | 0.017 (0.396) | 0.049 (1.138) | | -0.017 (-1.084) | | | | | -0.11 (3.33) |
| 39 | 1.25 (4.152)*** | 0.054 (0.51) | -0.028 (-0.502) | 0.07 (1.37) | 0.021 (0.525) | 0.019 (0.465) | | -0.016 (-0.998) | | | | 0.247 (3.974)*** | -0.08 (2.25) |
| 40 | 1.266 (4.189)*** | 0.049 (0.494) | -0.029 (-0.527) | 0.067 (1.329) | 0.024 (0.622) | 0.021 (0.519) | -3.256 (2.462)** | -0.017 (-1.135) | | | | 0.25 (3.959)*** | -0.08 (2.30) |
| 41 | 1.212 (4.006)*** | 0.048 (0.493) | -0.02 (-0.364) | 0.056 (1.11) | 0.024 (0.637) | 0.017 (0.434) | -2.655 (2.467)** | | -1.505 (2.342)** | -10.365 (3.219)*** | | 0.25 (3.918)*** | -0.08 (2.29) |
| 42 | 1.223 (4.053)*** | 0.067 (0.658) | -0.02 (-0.348) | 0.06 (1.166) | 0.021 (0.551) | 0.011 (0.28) | | -0.017 (-1.099) | -1.717 (2.134)** | -12.061 (3.431)*** | | 0.258 (4.116)*** | -0.08 (2.23) |
| 43 | 1.242 (4.095)*** | 0.056 (0.574) | -0.02 (-0.363) | 0.059 (1.18) | 0.023 (0.62) | 0.013 (0.326) | -2.656 (2.447)** | -0.018 (-1.167) | -1.546 (2.379)** | -10.689 (3.293)*** | | 0.255 (4.033)*** | -0.08 (2.28) |
| 44 | 1.298 (4.444)*** | 0.062 (0.63) | -0.007 (-0.122) | 0.06 (1.186) | 0.015 (0.399) | 0.022 (0.558) | -3.176 (2.464)** | | | | -0.001 (4.161)*** | 0.234 (3.696)*** | -0.09 (2.66) |
| 45 | 1.311 (4.496)*** | 0.078 (0.744) | -0.003 (-0.053) | 0.066 (1.296) | 0.012 (0.302) | 0.015 (0.386) | | -0.013 (-0.848) | | | -0.001 (4.09)*** | 0.237 (3.834)*** | -0.09 (2.60) |
| 46 | 1.324 (4.526)*** | 0.072 (0.733) | -0.006 (-0.103) | 0.061 (1.236) | 0.016 (0.408) | 0.017 (0.427) | -3.222 (2.464)** | -0.015 (-0.989) | | | -0.001 (4.111)*** | 0.239 (3.817)*** | -0.09 (2.64) |
| 47 | 1.255 (4.294)*** | 0.087 (0.854) | 0.002 (0.031) | 0.051 (0.997) | 0.013 (0.327) | 0.015 (0.374) | -3.011 (2.397)** | | | -10.528 (3.067)*** | -0.001 (4.114)*** | 0.241 (3.793)*** | -0.09 (2.60) |
| 48 | 1.256 (4.319)*** | 0.113 (1.045) | 0.007 (0.134) | 0.058 (1.115) | 0.008 (0.206) | 0.008 (0.198) | | -0.014 (-0.921) | | -14.014 (3.013)*** | -0.001 (4.085)*** | 0.248 (3.965)*** | -0.08 (2.52) |
| 49 | 1.282 (4.376)*** | 0.096 (0.951) | 0.003 (0.053) | 0.054 (1.06) | 0.012 (0.316) | 0.01 (0.256) | -3.007 (2.364)** | -0.015 (-1.008) | | -10.836 (3.128)*** | -0.001 (4.069)*** | 0.246 (3.912)*** | -0.09 (2.58) |
| 50 | 1.266 (4.309)*** | 0.071 (0.735) | 0.003 (0.057) | 0.052 (1.025) | 0.016 (0.435) | 0.016 (0.33) | -2.614 (2.464)** | | -1.583 (2.477)** | -9.964 (3.106)*** | -0.001 (4.085)*** | 0.24 (3.779)*** | -0.09 (2.61) |
| 51 | 1.279 (4.364)*** | 0.09 (0.891) | 0.005 (0.096) | 0.055 (1.084) | 0.013 (0.343) | 0.007 (0.182) | | -0.014 (-0.96) | -1.788 (2.239)** | -11.637 (3.32)*** | -0.001 (4.104)*** | 0.248 (3.984)*** | -0.08 (2.55) |
| 52 | 1.294 (4.393)*** | 0.079 (0.817) | 0.004 (0.067) | 0.055 (1.102) | 0.016 (0.418) | 0.009 (0.229) | -2.615 (2.441)** | -0.015 (-1.034) | -1.624 (2.513)** | -10.296 (3.184)*** | -0.001 (4.039)*** | 0.245 (3.898)*** | -0.09 (2.59) |

3.3 Hoberg-Phillips FIC-25 industries

3.3.1 Newey-West t-statistics

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{INDvw}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | $\hat{\lambda}_{IFIRMvw}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|-------------------------|---------------------------------|----------------------------------|---------------------------|-------------------------|
| 1 | 0.856 (1.995)** | 0.24 (0.875) | | | | | | | | | | 1.674 (1.641) |
| 2 | 0.826 (1.919)* | 0.275 (0.969) | | | | | -1.8 (-1.38) | | | | | 1.873 (1.808) |
| 3 | 0.924 (2.212)** | 0.237 (0.885) | | | | | | 0.002 (0.186) | | | | 1.927 (1.862) |
| 4 | 0.88 (2.102)** | 0.273 (0.978) | | | | | -1.792 (-1.387) | 0.003 (0.223) | | | | 2.118 (2.021) |
| 5 | 0.763 (1.81)* | 0.257 (0.934) | | | | | -1.6 (-1.309) | | -8.321 (-1.648) | -5.565 (-1.547) | | 2.171 (2.042) |
| 6 | 0.855 (2.057)** | 0.247 (0.92) | | | | | | 0.003 (0.202) | -8.112 (-1.609) | -5.394 (-1.51) | | 2.297 (2.168) |
| 7 | 0.809 (1.97)** | 0.253 (0.935) | | | | | -1.604 (-1.319) | 0.003 (0.238) | -8.266 (-1.64) | -5.564 (-1.553) | | 2.411 (2.25) |
| 8 | 0.846 (1.991)** | 0.283 (1) | | | | | -1.856 (-1.423) | | | | 0 (-0.579) | 2.361 (2.264) |
| 9 | 0.945 (2.286)** | 0.248 (0.933) | | | | | | 0.002 (0.116) | | | 0 (-0.58) | 2.411 (2.314) |
| 10 | 0.905 (2.186)** | 0.281 (1.015) | | | | | -1.848 (-1.432) | 0.002 (0.153) | | | 0 (-0.592) | 2.601 (2.473) |
| 11 | 0.798 (1.9)* | 0.288 (1.022) | | | | | -1.962 (-1.49) | | | -6.671 (1.71)* | 0 (-0.602) | 2.52 (2.391) |
| 12 | 0.874 (2.125)** | 0.296 (1.06) | | | | | | 0.002 (0.176) | | -6.662 (1.722)* | 0 (-0.65) | 2.619 (2.49) |
| 13 | 0.844 (2.067)** | 0.286 (1.034) | | | | | -1.971 (-1.506) | 0.003 (0.219) | | -6.691 (1.724)* | 0 (-0.612) | 2.759 (2.598) |
| 14 | 0.784 (1.88)* | 0.266 (0.972) | | | | | -1.673 (-1.368) | | -8.543 (1.697)* | -5.795 (-1.615) | 0 (-0.649) | 2.644 (2.483) |
| 15 | 0.881 (2.139)** | 0.256 (0.963) | | | | | | 0.002 (0.154) | -8.329 (1.666)* | -5.61 (-1.58) | 0 (-0.709) | 2.765 (2.604) |
| 16 | 0.834 (2.05)** | 0.263 (0.978) | | | | | -1.675 (-1.38) | 0.002 (0.182) | -8.48 (1.692)* | -5.787 (-1.624) | 0 (-0.661) | 2.879 (2.687) |
| 17 | 0.838 (2.031)** | 0.289 (1.076) | -0.002 (-0.028) | 0.142 (1.246) | | | | | | | | 2.116 (2.019) |
| 18 | 0.924 (2.311)** | 0.28 (1.066) | -0.003 (-0.04) | 0.152 (1.369) | | | | 0.001 (0.109) | | | | 2.351 (2.222) |
| 19 | 0.879 (2.206)** | 0.313 (1.157) | 0.005 (0.064) | 0.155 (1.356) | | | -1.746 (-1.358) | | | | | 2.536 (2.375) |
| 20 | 0.814 (1.986)** | 0.277 (1.061) | 0.03 (0.342) | 0.174 (1.47) | | | -1.605 (-1.308) | | -8.446 (-1.642) | -5.557 (-1.513) | | 2.59 (2.396) |
| 21 | 0.905 (2.272)** | 0.28 (1.082) | 0.006 (0.071) | 0.161 (1.466) | | | | 0.002 (0.149) | -8.197 (-1.63) | -5.228 (-1.476) | | 2.69 (2.497) |
| 22 | 0.88 (2.212)** | 0.269 (1.048) | 0.029 (0.337) | 0.183 (1.581) | | | -1.594 (-1.318) | 0.002 (0.164) | -8.331 (-1.641) | -5.523 (-1.525) | | 2.815 (2.591) |
| 23 | 0.829 (2.043)** | 0.328 (1.196) | 0.006 (0.075) | 0.15 (1.285) | | | -1.82 (-1.393) | | | | 0 (-0.489) | 2.791 (2.63) |
| 24 | 0.941 (2.381)** | 0.292 (1.114) | -0.002 (-0.021) | 0.155 (1.401) | | | | 0.001 (0.056) | | | 0 (-0.515) | 2.831 (2.67) |
| 25 | 0.898 (2.281)** | 0.321 (1.193) | 0.006 (0.078) | 0.157 (1.379) | | | -1.805 (-1.403) | 0.001 (0.116) | | | 0 (-0.499) | 3.016 (2.823) |
| 26 | 0.804 (1.986)** | 0.309 (1.144) | 0.035 (0.413) | 0.172 (1.412) | | | -1.978 (-1.488) | | | -6.826 (1.711)* | 0 (-0.54) | 2.94 (2.748) |
| 27 | 0.886 (2.265)** | 0.326 (1.21) | 0.014 (0.17) | 0.161 (1.403) | | | | 0.002 (0.137) | | -6.547 (1.693)* | 0 (-0.565) | 3.024 (2.832) |
| 28 | 0.868 (2.217)** | 0.303 (1.139) | 0.035 (0.423) | 0.181 (1.506) | | | -1.97 (-1.503) | 0.002 (0.139) | | -6.799 (1.729)* | 0 (-0.55) | 3.164 (2.939) |
| 29 | 0.831 (2.045)** | 0.286 (1.097) | 0.032 (0.379) | 0.174 (1.484) | | | -1.67 (-1.359) | | -8.651 (1.686)* | -5.766 (-1.572) | 0 (-0.556) | 3.054 (2.83) |
| 30 | 0.923 (2.34)** | 0.288 (1.12) | 0.01 (0.119) | 0.162 (1.482) | | | | 0.001 (0.118) | -8.404 (1.682)* | -5.428 (-1.539) | 0 (-0.606) | 3.152 (2.928) |
| 31 | 0.898 (2.279)** | 0.278 (1.088) | 0.032 (0.379) | 0.183 (1.588) | | | -1.657 (-1.372) | 0.002 (0.124) | -8.526 (1.688)* | -5.724 (-1.588) | 0 (-0.567) | 3.276 (3.02) |
| 32 | 0.814 (1.971)** | 0.281 (1.061) | 0.007 (0.096) | 0.157 (1.397) | -0.077 (-0.597) | -0.03 (-0.447) | | | | | | 2.471 (2.31) |
| 33 | 0.896 (2.228)** | 0.273 (1.053) | 0.008 (0.109) | 0.167 (1.513) | -0.071 (-0.57) | -0.027 (-0.413) | | 0.001 (0.109) | | | | 2.696 (2.503) |
| 34 | 0.852 (2.119)** | 0.31 (1.153) | 0.018 (0.24) | 0.168 (1.486) | -0.086 (-0.669) | -0.03 (-0.466) | -1.952 (-1.449) | 0.002 (0.169) | | | | 2.873 (2.649) |
| 35 | 0.808 (1.947)* | 0.283 (1.079) | 0.021 (0.262) | 0.174 (1.543) | -0.058 (-0.474) | -0.014 (-0.23) | -1.684 (-1.341) | | -8.47 (-1.635) | -5.656 (-1.517) | | 2.886 (2.629) |
| 36 | 0.887 (2.2)* | 0.277 (1.073) | 0.007 (0.099) | 0.173 (1.613) | -0.058 (-0.478) | -0.014 (-0.237) | | 0.002 (0.123) | -8.216 (-1.628) | -5.306 (-1.474) | | 3.001 (2.744) |
| 37 | 0.877 (2.171)** | 0.275 (1.069) | 0.021 (0.276) | 0.182 (1.648) | -0.054 (-0.448) | -0.012 (-0.192) | -1.672 (-1.351) | 0.002 (0.122) | -8.346 (-1.634) | -5.61 (-1.529) | | 3.107 (2.818) |
| 38 | 0.808 (1.976)** | 0.321 (1.175) | 0.015 (0.197) | 0.163 (1.417) | -0.093 (-0.714) | -0.031 (-0.46) | -2.028 (-1.483) | | | | 0 (-0.414) | 3.111 (2.887) |
| 39 | 0.916 (2.306)** | 0.281 (1.085) | 0.007 (0.099) | 0.169 (1.543) | -0.075 (-0.606) | -0.026 (-0.392) | | 0.001 (0.068) | | | 0 (-0.471) | 3.153 (2.929) |
| 40 | 0.874 (2.201)** | 0.315 (1.173) | 0.017 (0.226) | 0.17 (1.511) | -0.089 (-0.7) | -0.029 (-0.445) | -2.015 (-1.496) | 0.002 (0.121) | | | 0 (-0.424) | 3.331 (3.075) |
| 41 | 0.795 (1.943)* | 0.314 (1.156) | 0.028 (0.366) | 0.173 (1.459) | -0.083 (-0.66) | -0.034 (-0.499) | -2.095 (-1.528) | | | -7.007 (1.716)* | 0 (-0.426) | 3.22 (2.964) |
| 42 | 0.867 (2.194)** | 0.32 (1.19) | 0.018 (0.246) | 0.174 (1.522) | -0.089 (-0.712) | -0.029 (-0.452) | | 0.002 (0.124) | | -6.686 (1.681)* | 0 (-0.483) | 3.337 (3.081) |
| 43 | 0.862 (2.17)** | 0.308 (1.153) | 0.03 (0.396) | 0.18 (1.548) | -0.079 (-0.646) | -0.032 (-0.48) | -2.085 (-1.543) | 0.001 (0.114) | | -6.972 (1.733)* | 0 (-0.435) | 3.439 (3.151) |
| 44 | 0.827 (2.013)** | 0.287 (1.099) | 0.021 (0.272) | 0.174 (1.557) | -0.062 (-0.513) | -0.014 (-0.22) | -1.747 (-1.388) | | -8.625 (1.668)* | -5.848 (-1.571) | 0 (-0.453) | 3.334 (3.046) |
| 45 | 0.909 (2.277)** | 0.282 (1.098) | 0.009 (0.12) | 0.174 (1.625) | -0.062 (-0.519) | -0.013 (-0.224) | | 0.001 (0.092) | -8.392 (1.672)* | -5.507 (-1.535) | 0 (-0.518) | 3.446 (3.159) |
| 46 | 0.898 (2.244)** | 0.28 (1.093) | 0.022 (0.29) | 0.182 (1.656)* | -0.058 (-0.492) | -0.011 (-0.182) | -1.733 (-1.402) | 0.001 (0.084) | -8.492 (1.671)* | -5.796 (-1.586) | 0 (-0.461) | 3.551 (3.232) |

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta MktRF}$ | $\hat{\lambda}_{\beta SMB}$ | $\hat{\lambda}_{\beta HML}$ | $\hat{\lambda}_{\beta RMW}$ | $\hat{\lambda}_{\beta CMA}$ | $\hat{\lambda}_{\beta INDeW}$ | $\hat{\lambda}_{IINDeW}$ | $\hat{\lambda}_{\beta MKTew}$ | $\hat{\lambda}_{\beta FIRMew}$ | $\hat{\lambda}_{IFIRMew}$ | R^2, \bar{R}^2 (in %) |
|----|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|--------------------------|-------------------------------|--------------------------------|---------------------------|-------------------------|
| 1 | 0.856 (1.995)** | 0.24 (0.875) | | | | | | | | | | 1.674 (1.641) |
| 2 | 0.784 (1.822)* | 0.319 (1.066) | | | | | -0.827 (-1.641) | | | | | 1.9 (1.836) |
| 3 | 0.901 (2.205)** | 0.244 (0.901) | | | | | | -0.004 (-0.218) | | | | 2.004 (1.939) |
| 4 | 0.831 (2.028)** | 0.323 (1.092) | | | | | -0.838 (1.655)* | -0.004 (-0.234) | | | | 2.224 (2.127) |
| 5 | 0.743 (1.746)* | 0.313 (1.081) | | | | | -0.68 (-1.446) | | -6.629 (-1.57) | -23.499 (-1.558) | | 2.192 (2.063) |
| 6 | 0.833 (2.034)** | 0.302 (1.058) | | | | | | -0.005 (-0.248) | -6.793 (-1.585) | -24.841 (-1.615) | | 2.354 (2.225) |
| 7 | 0.784 (1.929)* | 0.317 (1.107) | | | | | -0.691 (-1.457) | -0.005 (-0.279) | -6.722 (-1.585) | -23.703 (-1.556) | | 2.502 (2.341) |
| 8 | 0.802 (1.886)* | 0.328 (1.102) | | | | | -0.851 (1.678)* | | | | 0 (-0.578) | 2.388 (2.292) |
| 9 | 0.926 (2.292)** | 0.255 (0.945) | | | | | | -0.006 (-0.318) | | | 0 (-0.511) | 2.482 (2.386) |
| 10 | 0.86 (2.129)** | 0.332 (1.13) | | | | | -0.862 (1.69)* | -0.006 (-0.338) | | | 0 (-0.551) | 2.704 (2.576) |
| 11 | 0.778 (1.83)* | 0.342 (1.151) | | | | | -0.807 (-1.579) | | | -28.253 (1.695)* | 0 (-0.55) | 2.53 (2.402) |
| 12 | 0.864 (2.14)** | 0.323 (1.105) | | | | | | -0.007 (-0.363) | -26.902 (1.707)* | 0 (-0.544) | 0 (-0.544) | 2.669 (2.54) |
| 13 | 0.836 (2.064)** | 0.346 (1.178) | | | | | -0.814 (-1.583) | -0.007 (-0.383) | -28.293 (1.688)* | 0 (-0.52) | 0 (-0.52) | 2.84 (2.679) |
| 14 | 0.76 (1.803)* | 0.321 (1.114) | | | | | -0.707 (-1.497) | | -6.827 (-1.621) | -24.483 (-1.609) | 0 (-0.586) | 2.669 (2.509) |
| 15 | 0.86 (2.124)** | 0.312 (1.099) | | | | | | -0.006 (-0.347) | -7.018 (-1.64) | -25.857 (1.663)* | 0 (-0.554) | 2.826 (2.666) |
| 16 | 0.812 (2.022)** | 0.325 (1.14) | | | | | -0.718 (-1.505) | -0.007 (-0.364) | -6.924 (-1.637) | -24.651 (-1.605) | 0 (-0.558) | 2.973 (2.781) |
| 17 | 0.838 (2.031)** | 0.289 (1.076) | -0.002 (-0.028) | 0.142 (1.246) | | | | | | | | 2.116 (2.019) |
| 18 | 0.888 (2.261)** | 0.287 (1.073) | 0 (-0.005) | 0.133 (1.198) | | | | -0.005 (-0.279) | | | | 2.433 (2.304) |
| 19 | 0.823 (2.102)** | 0.351 (1.219) | 0.021 (0.236) | 0.144 (1.219) | | | -0.814 (-1.605) | -0.005 (-0.276) | | | | 2.648 (2.487) |
| 20 | 0.769 (1.86)* | 0.337 (1.19) | 0.021 (0.231) | 0.163 (1.394) | | | -0.641 (-1.374) | | -6.539 (-1.563) | -21.489 (-1.437) | | 2.582 (2.389) |
| 21 | 0.839 (2.139)** | 0.319 (1.141) | 0.03 (0.331) | 0.152 (1.363) | | | | -0.005 (-0.269) | -6.712 (-1.559) | -23.378 (-1.497) | | 2.734 (2.541) |
| 22 | 0.813 (2.054)** | 0.334 (1.187) | 0.023 (0.26) | 0.156 (1.369) | | | -0.652 (-1.388) | -0.006 (-0.345) | -6.598 (-1.571) | -21.797 (-1.446) | | 2.879 (2.655) |
| 23 | 0.789 (1.946)* | 0.363 (1.257) | 0.019 (0.217) | 0.156 (1.298) | | | -0.828 (-1.625) | | | | 0 (-0.497) | 2.82 (2.659) |
| 24 | 0.908 (2.34)** | 0.298 (1.117) | 0.001 (0.013) | 0.136 (1.232) | | | | -0.006 (-0.36) | | | 0 (-0.451) | 2.908 (2.747) |
| 25 | 0.847 (2.192)** | 0.36 (1.256) | 0.022 (0.253) | 0.145 (1.242) | | | -0.839 (-1.638) | -0.006 (-0.359) | | | 0 (-0.472) | 3.125 (2.933) |
| 26 | 0.763 (1.875)* | 0.379 (1.294) | 0.023 (0.261) | 0.155 (1.313) | | | -0.795 (-1.541) | | | -27.251 (-1.623) | 0 (-0.47) | 2.948 (2.755) |
| 27 | 0.86 (2.233)** | 0.351 (1.212) | 0.012 (0.145) | 0.143 (1.25) | | | | -0.007 (-0.368) | | -26.165 (-1.608) | 0 (-0.46) | 3.086 (2.894) |
| 28 | 0.817 (2.101)** | 0.376 (1.292) | 0.026 (0.294) | 0.146 (1.269) | | | -0.802 (-1.548) | -0.007 (-0.39) | | -27.429 (-1.626) | 0 (-0.444) | 3.243 (3.019) |
| 29 | 0.781 (1.904)* | 0.344 (1.219) | 0.024 (0.271) | 0.166 (1.427) | | | -0.67 (-1.423) | | -6.741 (-1.612) | -22.504 (-1.487) | 0 (-0.501) | 3.054 (2.83) |
| 30 | 0.86 (2.218)** | 0.328 (1.175) | 0.032 (0.365) | 0.155 (1.397) | | | | -0.006 (-0.347) | -6.929 (-1.61) | -24.337 (-1.541) | 0 (-0.473) | 3.201 (2.977) |
| 31 | 0.834 (2.13)** | 0.342 (1.217) | 0.027 (0.305) | 0.158 (1.397) | | | -0.68 (-1.435) | -0.007 (-0.41) | -6.803 (-1.621) | -22.786 (-1.494) | 0 (-0.476) | 3.345 (3.09) |
| 32 | 0.814 (1.971)** | 0.281 (1.061) | 0.007 (0.096) | 0.157 (1.397) | -0.077 (-0.597) | -0.03 (-0.447) | | | | | | 2.471 (2.31) |
| 33 | 0.873 (2.207)** | 0.279 (1.06) | 0.009 (0.121) | 0.148 (1.351) | -0.081 (-0.642) | -0.039 (-0.605) | | -0.008 (-0.423) | | | | 2.757 (2.564) |
| 34 | 0.816 (2.063)** | 0.341 (1.209) | 0.026 (0.332) | 0.154 (1.333) | -0.097 (-0.744) | -0.05 (-0.748) | -0.843 (-1.629) | -0.008 (-0.422) | | | | 2.955 (2.73) |
| 35 | 0.754 (1.821)* | 0.335 (1.185) | 0.019 (0.234) | 0.175 (1.543) | -0.071 (-0.546) | -0.026 (-0.405) | -0.675 (-1.372) | | -6.987 (-1.583) | -22.619 (-1.402) | | 2.879 (2.622) |
| 36 | 0.828 (2.085)** | 0.317 (1.144) | 0.033 (0.409) | 0.164 (1.502) | -0.08 (-0.636) | -0.036 (-0.574) | | -0.008 (-0.442) | -6.973 (-1.581) | -24.19 (-1.489) | | 3.018 (2.761) |
| 37 | 0.807 (2.027)** | 0.333 (1.187) | 0.021 (0.265) | 0.167 (1.516) | -0.075 (-0.592) | -0.035 (-0.551) | -0.687 (-1.387) | -0.009 (-0.49) | -7.045 (-1.59) | -22.942 (-1.412) | | 3.158 (2.87) |
| 38 | 0.777 (1.905)* | 0.348 (1.229) | 0.023 (0.29) | 0.166 (1.41) | -0.096 (-0.728) | -0.039 (-0.57) | -0.857 (1.653)* | | | | 0 (-0.432) | 3.131 (2.907) |
| 39 | 0.895 (2.293)** | 0.287 (1.09) | 0.008 (0.113) | 0.15 (1.383) | -0.085 (-0.678) | -0.038 (-0.582) | | -0.009 (-0.487) | | | 0 (-0.412) | 3.21 (2.986) |
| 40 | 0.841 (2.157)** | 0.347 (1.231) | 0.025 (0.326) | 0.156 (1.359) | -0.1 (-0.776) | -0.048 (-0.728) | -0.867 (1.664)* | -0.009 (-0.495) | | | 0 (-0.409) | 3.41 (3.154) |
| 41 | 0.756 (1.855)* | 0.359 (1.247) | 0.025 (0.318) | 0.166 (1.448) | -0.096 (-0.74) | -0.043 (-0.635) | -0.81 (-1.554) | | | -27.752 (-1.616) | 0 (-0.423) | 3.248 (2.992) |
| 42 | 0.849 (2.181)** | 0.335 (1.181) | 0.018 (0.237) | 0.159 (1.4) | -0.094 (-0.737) | -0.044 (-0.671) | | -0.009 (-0.493) | -27.344 (-1.612) | 0 (-0.412) | 0 (-0.412) | 3.375 (3.12) |
| 43 | 0.818 (2.09)** | 0.357 (1.249) | 0.028 (0.354) | 0.157 (1.407) | -0.101 (-0.788) | -0.051 (-0.787) | -0.817 (-1.563) | -0.009 (-0.522) | | -27.919 (-1.62) | 0 (-0.399) | 3.522 (3.234) |
| 44 | 0.77 (1.876)* | 0.34 (1.205) | 0.021 (0.262) | 0.177 (1.576) | -0.073 (-0.575) | -0.025 (-0.384) | -0.703 (-1.419) | | -7.167 (-1.625) | -23.531 (-1.447) | 0 (-0.447) | 3.334 (3.046) |
| 45 | 0.851 (2.169)** | 0.324 (1.171) | 0.033 (0.418) | 0.166 (1.532) | -0.083 (-0.669) | -0.035 (-0.555) | | -0.009 (-0.513) | -7.161 (-1.625) | -25.055 (-1.53) | 0 (-0.416) | 3.469 (3.182) |
| 46 | 0.83 (2.108)** | 0.339 (1.208) | 0.024 (0.297) | 0.169 (1.544) | -0.078 (-0.624) | -0.033 (-0.529) | -0.714 (-1.431) | -0.01 (-0.552) | -7.226 (-1.633) | -23.826 (-1.455) | 0 (-0.423) | 3.608 (3.289) |

3.3.2
Newey-West t-statistics, controls

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDvw}}$ | $\hat{\lambda}_{IINDvw}$ | $\hat{\lambda}_{\beta_{MKTvw}}$ | $\hat{\lambda}_{\beta_{FIRMvw}}$ | $\hat{\lambda}_{IFIRMvw}$ | $\hat{\lambda}_{ln.BM}$ | $\hat{\lambda}_{ln.ME}$ |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|--------------------------|---------------------------------|----------------------------------|---------------------------|-------------------------|-------------------------|
| 1 | 0.856 (1.995)** | 0.24 (0.875) | | | | | | | | | | | |
| 2 | 1.381 (2.038)** | 0.285 (1.029) | | | | | -1.668 (-1.265) | | | | | 0.243 (2.461)** | -0.081 (-1.384) |
| 3 | 1.085 (2.386)** | 0.252 (0.969) | | | | | | 0.001 (0.1) | | | | 0.339 (3.113)*** | |
| 4 | 1.619 (2.383)** | 0.232 (0.868) | | | | | | 0.001 (0.104) | | | | | -0.123 (2.016)** |
| 5 | 1.506 (2.248)** | 0.244 (0.942) | | | | | | 0 (0) | | | | 0.259 (2.726)*** | -0.081 (-1.4) |
| 6 | 1.461 (2.181)** | 0.281 (1.032) | | | | | -1.653 (-1.269) | 0.001 (0.047) | | | | 0.26 (2.689)*** | -0.081 (-1.399) |
| 7 | 1.321 (1.991)** | 0.261 (0.973) | | | | | -1.379 (-1.113) | | -7.566 (-1.508) | -4.461 (-1.228) | | 0.248 (2.502)** | -0.074 (-1.315) |
| 8 | 1.42 (2.146)** | 0.256 (0.973) | | | | | | 0.001 (0.048) | -7.411 (-1.486) | -4.299 (-1.192) | | 0.262 (2.739)*** | -0.076 (-1.352) |
| 9 | 1.393 (2.124)** | 0.256 (0.972) | | | | | -1.377 (-1.121) | 0.001 (0.067) | -7.464 (-1.499) | -4.442 (-1.234) | | 0.262 (2.703)*** | -0.074 (-1.327) |
| 10 | 1.488 (2.235)** | 0.296 (1.071) | | | | | -1.735 (-1.32) | | | | 0 (-0.945) | 0.24 (2.442)** | -0.095 (1.679)* |
| 11 | 1.622 (2.473)** | 0.259 (1) | | | | | | 0 (-0.037) | | | 0 (-0.975) | 0.256 (2.707)*** | -0.097 (1.725)* |
| 12 | 1.573 (2.394)** | 0.293 (1.08) | | | | | -1.719 (-1.325) | 0 (0.009) | | | 0 (-0.956) | 0.256 (2.671)*** | -0.096 (1.704)* |
| 13 | 1.432 (2.17)** | 0.29 (1.051) | | | | | -1.703 (-1.282) | | | -5.42 (-1.378) | 0 (-0.912) | 0.243 (2.458)** | -0.088 (-1.588) |
| 14 | 1.533 (2.35)** | 0.301 (1.104) | | | | | | 0 (0.033) | | -5.387 (-1.384) | 0 (-0.993) | 0.257 (2.653)*** | -0.093 (1.669)* |
| 15 | 1.504 (2.318)** | 0.287 (1.058) | | | | | -1.704 (-1.295) | 0.001 (0.073) | | -5.411 (-1.39) | 0 (-0.923) | 0.257 (2.665)*** | -0.089 (-1.611) |
| 16 | 1.424 (2.175)** | 0.273 (1.019) | | | | | -1.458 (-1.181) | | -7.741 (-1.549) | -4.691 (-1.297) | 0 (-0.93) | 0.244 (2.482)** | -0.088 (-1.603) |
| 17 | 1.535 (2.359)** | 0.269 (1.025) | | | | | | 0 (0.023) | -7.581 (-1.531) | -4.519 (-1.262) | 0 (-1.015) | 0.258 (2.713)*** | -0.091 (1.667)* |
| 18 | 1.5 (2.321)** | 0.269 (1.023) | | | | | -1.454 (-1.191) | 0 (0.035) | -7.634 (-1.543) | -4.666 (-1.304) | 0 (-0.943) | 0.259 (2.684)*** | -0.088 (-1.624) |
| 19 | 0.838 (2.031)** | 0.289 (1.076) | -0.002 (-0.028) | 0.142 (1.246) | | | | | | | | | |
| 20 | 1.097 (2.481)** | 0.28 (1.083) | -0.015 (-0.18) | 0.102 (0.979) | | | | 0 (0.038) | | | | 0.322 (2.95)*** | |
| 21 | 1.736 (2.597)*** | 0.313 (1.188) | -0.064 (-0.848) | 0.174 (1.568) | | | | 0.001 (0.064) | | | | | -0.144 (2.299)** |
| 22 | 1.629 (2.473)** | 0.301 (1.152) | -0.053 (-0.74) | 0.135 (1.319) | | | | 0 (-0.026) | | | | 0.219 (2.44)** | -0.104 (1.794)* |
| 23 | 1.586 (2.451)** | 0.336 (1.242) | -0.047 (-0.657) | 0.139 (1.317) | | | -1.613 (-1.226) | 0 (0.029) | | | | 0.23 (2.542)** | -0.104 (1.81)* |
| 24 | 1.457 (2.251)** | 0.299 (1.146) | -0.026 (-0.338) | 0.153 (1.408) | | | -1.39 (-1.113) | | -7.737 (-1.513) | -4.445 (-1.197) | | 0.216 (2.333)** | -0.094 (1.697)* |
| 25 | 1.594 (2.476)** | 0.305 (1.176) | -0.049 (-0.674) | 0.15 (1.467) | | | | 0 (0.019) | -7.557 (-1.512) | -4.146 (-1.152) | | 0.23 (2.547)** | -0.101 (1.802)* |
| 26 | 1.546 (2.413)** | 0.29 (1.132) | -0.028 (-0.367) | 0.163 (1.525) | | | -1.376 (-1.119) | 0 (0.025) | -7.591 (-1.509) | -4.399 (-1.205) | | 0.232 (2.557)** | -0.094 (1.712)* |
| 27 | 1.599 (2.494)** | 0.357 (1.3) | -0.045 (-0.621) | 0.129 (1.209) | | | -1.704 (-1.277) | | | | 0 (-0.896) | 0.21 (2.299)** | -0.117 (2.098)** |
| 28 | 1.741 (2.707)*** | 0.318 (1.217) | -0.052 (-0.731) | 0.135 (1.326) | | | | -0.001 (-0.051) | | | 0 (-0.935) | 0.216 (2.42)** | -0.12 (2.125)** |
| 29 | 1.695 (2.674)*** | 0.35 (1.295) | -0.046 (-0.652) | 0.138 (1.312) | | | -1.682 (-1.282) | 0 (0.002) | | | 0 (-0.907) | 0.226 (2.52)** | -0.118 (2.124)** |
| 30 | 1.534 (2.41)** | 0.335 (1.237) | -0.026 (-0.338) | 0.15 (1.332) | | | -1.738 (-1.289) | | | -5.572 (-1.382) | 0 (-0.886) | 0.208 (2.274)** | -0.108 (1.977)** |
| 31 | 1.67 (2.651)*** | 0.349 (1.297) | -0.044 (-0.61) | 0.146 (1.367) | | | | 0 (0.02) | | -5.317 (-1.354) | 0 (-0.952) | 0.223 (2.482)** | -0.116 (2.095)** |
| 32 | 1.623 (2.59)*** | 0.328 (1.23) | -0.027 (-0.359) | 0.159 (1.43) | | | -1.724 (-1.298) | 0 (0.038) | | -5.525 (-1.394) | 0 (-0.897) | 0.224 (2.497)** | -0.109 (2)** |
| 33 | 1.558 (2.445)** | 0.313 (1.2) | -0.024 (-0.317) | 0.151 (1.398) | | | -1.462 (-1.174) | | -7.91 (-1.552) | -4.657 (-1.258) | 0 (-0.904) | 0.212 (2.303)** | -0.108 (2)** |
| 34 | 1.704 (2.698)*** | 0.319 (1.231) | -0.046 (-0.639) | 0.149 (1.454) | | | | 0 (0.006) | -7.731 (-1.556) | -4.355 (-1.217) | 0 (-0.986) | 0.225 (2.513)** | -0.116 (2.127)** |
| 35 | 1.651 (2.62)*** | 0.304 (1.191) | -0.026 (-0.344) | 0.161 (1.507) | | | -1.446 (-1.182) | 0 (0.005) | -7.758 (-1.55) | -4.605 (-1.268) | 0 (-0.917) | 0.228 (2.529)** | -0.109 (2.023)** |
| 36 | 0.814 (1.971)** | 0.281 (1.061) | 0.007 (0.096) | 0.157 (1.397) | -0.077 (-0.597) | -0.03 (-0.447) | | | | | | | |
| 37 | 1.075 (2.426)** | 0.279 (1.095) | -0.009 (-0.124) | 0.114 (1.122) | -0.081 (-0.683) | -0.043 (-0.678) | | 0 (0.039) | | | | 0.316 (3.033)*** | |
| 38 | 1.69 (2.56)** | 0.31 (1.193) | -0.053 (-0.774) | 0.177 (1.634) | -0.04 (-0.334) | -0.016 (-0.259) | | 0 (0.03) | | | | | -0.138 (2.319)** |
| 39 | 1.597 (2.447)** | 0.301 (1.169) | -0.047 (-0.698) | 0.139 (1.386) | -0.055 (-0.488) | -0.028 (-0.454) | | -0.001 (-0.052) | | | | 0.222 (2.556)** | -0.1 (1.81)* |
| 40 | 1.559 (2.43)** | 0.338 (1.255) | -0.04 (-0.59) | 0.145 (1.391) | -0.067 (-0.571) | -0.028 (-0.457) | -1.747 (-1.273) | 0 (-0.006) | | | | 0.231 (2.632)*** | -0.1 (1.832)* |
| 41 | 1.466 (2.256)** | 0.306 (1.172) | -0.033 (-0.46) | 0.15 (1.441) | -0.04 (-0.357) | -0.019 (-0.328) | -1.464 (-1.149) | | -7.734 (-1.504) | -4.562 (-1.213) | | 0.221 (2.434)** | -0.095 (1.754)* |
| 42 | 1.587 (2.457)** | 0.305 (1.182) | -0.05 (-0.744) | 0.153 (1.545) | -0.012 (-0.339) | -0.012 (-0.217) | | 0 (-0.03) | -7.518 (-1.502) | -4.252 (-1.168) | | 0.232 (2.636)*** | -0.1 (1.829)* |
| 43 | 1.56 (2.419)** | 0.298 (1.162) | -0.033 (-0.47) | 0.159 (1.548) | -0.034 (-0.311) | -0.016 (-0.278) | -1.45 (-1.155) | 0 (-0.03) | -7.586 (-1.5) | -4.511 (-1.22) | | 0.237 (2.664)*** | -0.095 (1.774)* |
| 44 | 1.569 (2.464)** | 0.354 (1.295) | -0.043 (-0.621) | 0.136 (1.298) | -0.079 (-0.659) | -0.032 (-0.505) | -1.834 (-1.32) | | | | 0 (-0.801) | 0.212 (2.39)** | -0.113 (2.104)** |
| 45 | 1.709 (2.68)*** | 0.314 (1.218) | -0.049 (-0.733) | 0.14 (1.397) | -0.062 (-0.549) | -0.029 (-0.469) | | -0.001 (-0.076) | | | 0 (-0.865) | 0.219 (2.548)** | -0.115 (2.14)** |
| 46 | 1.665 (2.645)*** | 0.347 (1.293) | -0.042 (-0.625) | 0.144 (1.394) | -0.073 (-0.625) | -0.029 (-0.475) | -1.816 (-1.328) | 0 (-0.031) | | | 0 (-0.81) | 0.229 (2.619)*** | -0.114 (2.137)** |
| 47 | 1.529 (2.401)** | 0.341 (1.256) | -0.03 (-0.419) | 0.147 (1.349) | -0.067 (-0.568) | -0.04 (-0.622) | -1.848 (-1.332) | | -5.786 (-1.405) | | 0 (-0.777) | 0.215 (2.388)** | -0.107 (2.011)** |
| 48 | 1.657 (2.637)*** | 0.349 (1.3) | -0.044 (-0.641) | 0.151 (1.427) | -0.069 (-0.596) | -0.029 (-0.488) | | 0 (-0.027) | -5.472 (-1.364) | | 0 (-0.856) | 0.226 (2.587)** | -0.114 (2.134)** |
| 49 | 1.621 (2.58)** | 0.334 (1.252) | -0.029 (-0.419) | 0.155 (1.439) | -0.061 (-0.534) | -0.037 (-0.59) | -1.834 (-1.342) | 0 (-0.016) | | -5.735 (-1.416) | 0 (-0.786) | 0.23 (2.62)*** | -0.108 (2.037)** |
| 50 | 1.564 (2.445)** | 0.315 (1.21) | -0.034 (-0.473) | 0.149 (1.437) | -0.047 (-0.416) | -0.021 (-0.349) | -1.53 (-1.205) | | -7.862 (-1.535) | -4.755 (-1.27) | 0 (-0.806) | 0.217 (2.41)** | -0.108 (2.044)** |
| 51 | 1.697 (2.678)*** | 0.315 (1.225) | -0.051 (-0.753) | 0.151 (1.536) | -0.044 (-0.399) | -0.013 (-0.239) | | -0.001 (-0.045) | -7.656 (-1.539) | -4.443 (-1.228) | 0 (-0.892) | 0.228 (2.609)*** | -0.114 (2.151)** |
| 52 | 1.661 (2.621)*** | 0.308 (1.204) | -0.034 (-0.483) | 0.157 (1.538) | -0.041 (-0.374) | -0.017 (-0.299) | -1.514 (-1.213) | -0.001 (-0.051) | -7.707 (-1.533) | -4.698 (-1.279) | 0 (-0.814) | 0.233 (2.642)*** | -0.109 (2.072)** |

| # | $\hat{\lambda}_{intercept}$ | $\hat{\lambda}_{\beta_{MktRF}}$ | $\hat{\lambda}_{\beta_{SMB}}$ | $\hat{\lambda}_{\beta_{HML}}$ | $\hat{\lambda}_{\beta_{RMW}}$ | $\hat{\lambda}_{\beta_{CMA}}$ | $\hat{\lambda}_{\beta_{INDew}}$ | $\hat{\lambda}_{IINDew}$ | $\hat{\lambda}_{\beta_{MKTew}}$ | $\hat{\lambda}_{\beta_{FIRMew}}$ | $\hat{\lambda}_{IFIRMew}$ | $\hat{\lambda}_{ln.BM}$ | $\hat{\lambda}_{ln.MW}$ |
|----|-----------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|--------------------------|---------------------------------|----------------------------------|---------------------------|-------------------------|-------------------------|
| 1 | 0.856 (1.995)** | 0.24 (0.875) | | | | | | | | | | | |
| 2 | 0.924 (2.003)** | 0.335 (1.147) | | | | | -0.814 (-1.602) | | | | | 0.315 (2.841)*** | |
| 3 | 1.457 (2.121)** | 0.31 (1.036) | | | | | -0.768 (-1.497) | | | | | | -0.121 (1.976) |
| 4 | 1.344 (1.992)** | 0.324 (1.112) | | | | | -0.776 (-1.517) | | | | | 0.237 (2.405)** | -0.082 (-1.40) |
| 5 | 1.46 (2.199)** | 0.251 (0.954) | | | | | | -0.005 (-0.278) | | | | 0.239 (2.498)** | -0.08 (-1.35) |
| 6 | 1.396 (2.103)** | 0.327 (1.13) | | | | | -0.788 (-1.534) | -0.005 (-0.29) | | | | 0.236 (2.44)** | -0.081 (-1.38) |
| 7 | 1.304 (1.976)** | 0.318 (1.119) | | | | | -0.638 (-1.342) | | -6.222 (-1.482) | -21.692 (-1.408) | | 0.234 (2.36)** | -0.079 (-1.41) |
| 8 | 1.409 (2.154)** | 0.302 (1.082) | | | | | | -0.005 (-0.286) | -6.298 (-1.481) | -22.585 (-1.44) | | 0.242 (2.506)** | -0.081 (-1.41) |
| 9 | 1.35 (2.078)** | 0.321 (1.136) | | | | | -0.649 (-1.353) | -0.005 (-0.296) | -6.283 (-1.49) | -21.914 (-1.411) | | 0.233 (2.402)** | -0.079 (-1.38) |
| 10 | 1.448 (2.183)** | 0.336 (1.158) | | | | | -0.801 (-1.566) | | | | 0 (-0.946) | 0.233 (2.381)** | -0.096 (1.696) |
| 11 | 1.567 (2.403)** | 0.264 (1.008) | | | | | | -0.005 (-0.285) | | | 0 (-0.909) | 0.233 (2.451)** | -0.095 (1.66) |
| 12 | 1.503 (2.303)** | 0.339 (1.177) | | | | | -0.813 (-1.581) | -0.005 (-0.302) | | | 0 (-0.927) | 0.231 (2.397)** | -0.095 (1.674) |
| 13 | 1.417 (2.131)** | 0.346 (1.188) | | | | | -0.766 (-1.488) | | | -26.364 (-1.558) | 0 (-0.911) | 0.226 (2.278)** | -0.095 (1.686) |
| 14 | 1.519 (2.323)** | 0.325 (1.133) | | | | | | -0.006 (-0.323) | | -24.828 (-1.545) | 0 (-0.925) | 0.232 (2.389)** | -0.096 (1.688) |
| 15 | 1.474 (2.252)** | 0.349 (1.206) | | | | | -0.773 (-1.495) | -0.006 (-0.343) | | -26.474 (-1.557) | 0 (-0.889) | 0.224 (2.301)** | -0.095 (1.672) |
| 16 | 1.399 (2.157)** | 0.33 (1.163) | | | | | -0.665 (-1.399) | | -6.377 (-1.526) | -22.621 (-1.466) | 0 (-0.885) | 0.23 (2.334)** | -0.092 (1.698) |
| 17 | 1.509 (2.347)** | 0.316 (1.132) | | | | | | -0.005 (-0.302) | -6.479 (-1.527) | -23.519 (-1.492) | 0 (-0.887) | 0.237 (2.466)** | -0.094 (1.714) |
| 18 | 1.448 (2.268)** | 0.333 (1.181) | | | | | -0.674 (-1.408) | -0.005 (-0.307) | -6.439 (-1.534) | -22.807 (-1.466) | 0 (-0.863) | 0.228 (2.358)** | -0.092 (1.679) |
| 19 | 0.838 (2.031)** | 0.289 (1.076) | -0.002 (-0.028) | 0.142 (1.246) | | | | | | | | | |
| 20 | 1.026 (2.387)** | 0.286 (1.086) | -0.011 (-0.137) | 0.083 (0.799) | | | | -0.002 (-0.099) | | | | 0.299 (2.765)*** | |
| 21 | 1.678 (2.535)** | 0.321 (1.197) | -0.059 (-0.782) | 0.152 (1.393) | | | | -0.007 (-0.392) | | | | | -0.139 (2.221) |
| 22 | 1.56 (2.397)** | 0.307 (1.156) | -0.049 (-0.672) | 0.116 (1.143) | | | | -0.005 (-0.3) | | | | 0.2 (2.221)** | -0.101 (1.729) |
| 23 | 1.498 (2.331)** | 0.371 (1.289) | -0.032 (-0.426) | 0.129 (1.195) | | | -0.757 (-1.458) | -0.005 (-0.306) | | | | 0.21 (2.336)** | -0.1 (1.744) |
| 24 | 1.429 (2.203)** | 0.362 (1.275) | -0.03 (-0.391) | 0.145 (1.361) | | | -0.59 (-1.239) | | -6.132 (-1.468) | -19.291 (-1.254) | | 0.209 (2.285)** | -0.099 (1.762) |
| 25 | 1.515 (2.365)** | 0.34 (1.21) | -0.025 (-0.323) | 0.137 (1.343) | | | | -0.005 (-0.268) | -6.246 (-1.452) | -20.868 (-1.295) | | 0.213 (2.341)** | -0.101 (1.756) |
| 26 | 1.467 (2.292)** | 0.358 (1.266) | -0.027 (-0.36) | 0.139 (1.34) | | | -0.601 (-1.254) | -0.006 (-0.332) | -6.169 (-1.471) | -19.613 (-1.266) | | 0.21 (2.318)** | -0.097 (1.715) |
| 27 | 1.556 (2.434)** | 0.389 (1.348) | -0.035 (-0.457) | 0.137 (1.244) | | | -0.772 (-1.488) | | | | 0 (-0.896) | 0.206 (2.279)** | -0.117 (2.091) |
| 28 | 1.663 (2.607)*** | 0.323 (1.215) | -0.048 (-0.662) | 0.116 (1.153) | | | | -0.005 (-0.295) | | | 0 (-0.867) | 0.195 (2.176)** | -0.116 (2.039) |
| 29 | 1.599 (2.534)** | 0.385 (1.34) | -0.031 (-0.42) | 0.128 (1.192) | | | -0.783 (-1.503) | -0.005 (-0.306) | | | 0 (-0.873) | 0.205 (2.3)** | -0.114 (2.043) |
| 30 | 1.518 (2.369)** | 0.405 (1.379) | -0.029 (-0.378) | 0.137 (1.271) | | | -0.739 (-1.411) | | | -24.807 (-1.442) | 0 (-0.855) | 0.206 (2.283)** | -0.115 (2.052) |
| 31 | 1.626 (2.56)** | 0.376 (1.291) | -0.039 (-0.533) | 0.129 (1.226) | | | | -0.005 (-0.295) | | -23.632 (-1.405) | 0 (-0.866) | 0.206 (2.316)** | -0.117 (2.058) |
| 32 | 1.559 (2.466)** | 0.401 (1.371) | -0.026 (-0.344) | 0.13 (1.233) | | | -0.747 (-1.421) | -0.006 (-0.322) | | -25.024 (-1.449) | 0 (-0.83) | 0.205 (2.296)** | -0.113 (2.013) |
| 33 | 1.519 (2.381)** | 0.374 (1.321) | -0.027 (-0.363) | 0.144 (1.36) | | | -0.618 (-1.296) | | -6.294 (-1.511) | -20.259 (-1.312) | 0 (-0.842) | 0.206 (2.264)** | -0.112 (2.047) |
| 34 | 1.609 (2.555)** | 0.354 (1.26) | -0.023 (-0.305) | 0.136 (1.341) | | | | -0.005 (-0.271) | -6.423 (-1.495) | -21.775 (-1.345) | 0 (-0.844) | 0.208 (2.308)** | -0.114 (2.047) |
| 35 | 1.558 (2.477)** | 0.371 (1.313) | -0.025 (-0.329) | 0.137 (1.333) | | | -0.628 (-1.309) | -0.006 (-0.33) | -6.33 (-1.514) | -20.546 (-1.322) | 0 (-0.819) | 0.205 (2.281)** | -0.11 (2.001) |
| 36 | 1.515 (2.292)** | 0.311 (1.167) | -0.051 (-0.695) | 0.123 (1.188) | | | | | | | | 0.2 (2.184)** | -0.103 (1.777) |
| 37 | 1.017 (2.362)** | 0.283 (1.095) | -0.008 (-0.107) | 0.096 (0.952) | -0.092 (-0.757) | -0.056 (-0.879) | | -0.004 (-0.215) | | | | 0.296 (2.867)*** | |
| 38 | 1.639 (2.506)** | 0.317 (1.198) | -0.05 (-0.728) | 0.158 (1.47) | -0.051 (-0.422) | -0.029 (-0.468) | | -0.009 (-0.488) | | | | | -0.133 (2.236) |
| 39 | 1.535 (2.38)** | 0.306 (1.17) | -0.045 (-0.656) | 0.121 (1.221) | -0.066 (-0.573) | -0.041 (-0.666) | | -0.007 (-0.385) | | | | 0.204 (2.352)** | -0.097 (1.738) |
| 40 | 1.49 (2.333)** | 0.365 (1.294) | -0.033 (-0.463) | 0.133 (1.256) | -0.079 (-0.655) | -0.048 (-0.761) | -0.76 (-1.444) | -0.007 (-0.401) | | | | 0.214 (2.437)** | -0.097 (1.759) |
| 41 | 1.416 (2.189)** | 0.362 (1.278) | -0.037 (-0.522) | 0.154 (1.489) | -0.057 (-0.479) | -0.025 (-0.404) | -0.607 (-1.212) | | -6.557 (-1.489) | -20.004 (-1.214) | | 0.214 (2.382)** | -0.097 (1.753) |
| 42 | 1.506 (2.35)** | 0.34 (1.224) | -0.027 (-0.381) | 0.144 (1.442) | -0.063 (-0.549) | -0.033 (-0.561) | | -0.007 (-0.405) | -6.466 (-1.467) | -21.041 (-1.263) | | 0.216 (2.443)** | -0.098 (1.762) |
| 43 | 1.462 (2.29)** | 0.358 (1.272) | -0.035 (-0.496) | 0.148 (1.466) | -0.06 (-0.515) | -0.033 (-0.55) | -0.619 (-1.227) | -0.008 (-0.45) | -6.592 (-1.492) | -20.343 (-1.227) | | 0.214 (2.425)** | -0.095 (1.714) |
| 44 | 1.538 (2.422)** | 0.378 (1.337) | -0.037 (-0.522) | 0.141 (1.308) | -0.081 (-0.67) | -0.04 (-0.616) | -0.773 (-1.473) | | | | 0 (-0.808) | 0.21 (2.377)** | -0.113 (2.092) |
| 45 | 1.638 (2.59)*** | 0.318 (1.215) | -0.047 (-0.687) | 0.122 (1.234) | -0.072 (-0.631) | -0.041 (-0.679) | | -0.007 (-0.384) | | | 0 (-0.802) | 0.2 (2.319)** | -0.111 (2.045) |
| 46 | 1.589 (2.533)** | 0.375 (1.331) | -0.035 (-0.492) | 0.132 (1.259) | -0.085 (-0.709) | -0.048 (-0.778) | -0.784 (-1.487) | -0.007 (-0.406) | | | 0 (-0.787) | 0.21 (2.408)** | -0.11 (2.049) |
| 47 | 1.509 (2.371)** | 0.388 (1.35) | -0.033 (-0.472) | 0.143 (1.363) | -0.082 (-0.682) | -0.042 (-0.662) | -0.727 (-1.38) | | | -24.461 (-1.404) | 0 (-0.778) | 0.209 (2.377)** | -0.111 (2.052) |
| 48 | 1.607 (2.542)** | 0.363 (1.276) | -0.04 (-0.588) | 0.137 (1.32) | -0.079 (-0.673) | -0.042 (-0.682) | | -0.007 (-0.39) | | -23.877 (-1.38) | 0 (-0.79) | 0.21 (2.422)** | -0.112 (2.052) |
| 49 | 1.557 (2.477)** | 0.384 (1.344) | -0.031 (-0.442) | 0.136 (1.325) | -0.085 (-0.718) | -0.05 (-0.815) | -0.735 (-1.39) | -0.007 (-0.422) | | -24.667 (-1.411) | 0 (-0.756) | 0.209 (2.401)** | -0.109 (2.015) |
| 50 | 1.507 (2.369)** | 0.37 (1.313) | -0.036 (-0.513) | 0.154 (1.494) | -0.062 (-0.526) | -0.033 (-0.419) | -0.633 (-1.263) | | -6.701 (-1.527) | -20.834 (-1.263) | 0 (-0.776) | 0.211 (2.365)** | -0.109 (2.03) |
| 51 | 1.6 (2.541)** | 0.351 (1.265) | -0.028 (-0.393) | 0.143 (1.443) | -0.069 (-0.603) | -0.034 (-0.581) | | -0.007 (-0.413) | -6.62 (-1.505) | -21.843 (-1.307) | 0 (-0.772) | 0.213 (2.417)** | -0.111 (2.047) |
| 52 | 1.553 (2.475)** | 0.367 (1.308) | -0.034 (-0.484) | 0.147 (1.465) | -0.065 (-0.565) | -0.033 (-0.565) | -0.644 (-1.276) | -0.008 (-0.452) | -6.734 (-1.529) | -21.139 (-1.274) | 0 (-0.753) | 0.211 (2.392)** | -0.107 (1.992) |

