

Appendix A : Outliers

First I measure the cook's distance of my models. Observations that have a cook's distance greater than 4 times the mean are considered as influential and are summarized in figures 1, 2 and 3.

Companies	Year	Ra	ROA	ROE	TobinsQ	AlphaJensen
90 128 2015	-0.35634138	-0.39	-1.01	0.84	-0.31495564	698 32 2015 -0.10067229 -0.72 -1.62 0.93 -0.07101781 906
389 2015	-0.04402664	0.06	0.60	1.40	-0.01423819	CarbonProductivity WaterProductivity WasteProductivity
90 0.08 0.08 0.00 698 0.04 0.00 0.00 906 0.09 0.05 0.04	EnergyProductivity SustainabilityPayLink SustainableThemedCommitment	90 0.00 1 1 698 0.00 1 0 906 0.08 1 1	AuditScore FirmSize Leverage NetMargin	Industry Beta CostEquity	90 1 10.47 1.72 0.08 3 1.911785 -0.04138573 698 1 10.28 3.54 -3.63 3 1.371174	-0.02965448 906 1 9.99 5.22 8.62 1 1.377348 -0.02978845
178 156 2013	0.127380439	0.03	-0.73	1.03	-0.10124740	179 156 2014 -0.169292057 0.00 -0.11 1.03 -0.16753157
180 156 2015	-0.242467824	0.00	-0.08	1.03	-0.21502220	196 161 2013 0.003869318 0.14 0.28 5.25 -0.05460717
238 174 2013	0.016699218	0.00	0.01	0.05	-0.01584460	345 208 2015 -0.457272090 0.07 0.01 0.91 -0.43264394
CarbonProductivity WaterProductivity WasteProductivity	178 0.00 0.00 0 179 0.00 0.00 0 180 0.00 0.00 0 196	0.83 0.00 0 238 0.29 0.04 0 345 0.01 0.00 0	EnergyProductivity SustainabilityPayLink SustainableThemedCommitment	178 0.00 0 0 179 0.00 0 0 180 0.00 0 0 196 0.88 0 0 238 0.12 1 1 345 0.00 0 0	AuditScore FirmSize Leverage NetMargin Industry Beta CostEquity	178 0 12.51 339.01 -0.05 4 8.136222 0.228627838 179 0 12.51
875.59 -0.05 4 2.934143 -0.001760486	180 0 12.51 793.47 -0.01 4 1.269384 -0.027445626	196 0 10.35 0.35 0.27 5 2.081014 0.058476485	238 1 11.44 0.33 0.01 4 1.158143 0.032543815	345 0 10.92 1.21 0.05 3 1.139546 -0.024628153	Companies Year Ra ROA ROE TobinsQ AlphaJensen	43 111 2013 -0.053511418 0.22 2.22 NA
-0.120841296 178 156 2013 0.127380439 0.03 -0.73 1.03 -0.101247399	179 156 2014 -0.169292057 0.00 -0.11 1.03 -0.167531570	180 156 2015 -0.242467824 0.00 -0.08 1.03 -0.215022198	342 207 2015 0.073454769 0.11 3.65 3.57 0.091583025	369 215 2015 0.004287896 0.11 -2.54 4.00 0.009278811	CarbonProductivity WaterProductivity WasteProductivity	43 0.30 0.89 0.77 178 0.00 0.00 0.00 179 0.00 0.00 0.00 180 0.00 0.00 0.00 342 0.02
0.02 0.01 369 0.06 0.00 0.00	EnergyProductivity SustainabilityPayLink SustainableThemedCommitment	43 0.12 1 1 178 0.00 0 0 179 0.00 0 0 180 0.00 0 0 342 0.03 1 1 369 0.00 1 0	AuditScore FirmSize Leverage NetMargin Industry Beta CostEquity	43 1 10.72 0.84 0.28 6 2.3960811 0.067329879	178 0 12.51 339.01 -0.05 4 8.1362220 0.228627838	179 0 12.51 875.59 -0.05 4 2.9341434 -0.001760486
180 0 12.51 793.47 -0.01 4 1.2693837 -0.027445626	342 1 10.17 8.57 0.19 2 0.8400118 -0.018128255	369 1 9.90 -8.76 0.07 1 0.2346044 -0.004990915	Companies Year Ra ROA ROE TobinsQ AlphaJensen	43 111 2013 -0.05351142 0.22 2.22 NA -0.1208413	55 116 2013 -0.12946070 0.09 0.21 1.18 -0.1288045	90 128 2015 -0.35634138 -0.39 -1.01 0.84 -0.3149556
148 147 2013 -0.10159427 0.04 0.34 0.40 -0.1306005	178 156 2013 0.12738044 0.03 -0.73 1.03 -0.1012474	180 156 2015 -0.24246782 0.00 -0.08 1.03 -0.2150222	CarbonProductivity WaterProductivity WasteProductivity	43 0.30 0.89 0.77 55 0.25 0.48 0.14 90 0.08 0.08 0.00 148 0.35 0.70 0.65	178 0.00 0.00 0.00 180 0.00 0.00 0.00	EnergyProductivity SustainabilityPayLink SustainableThemedCommitment
43 0.12 1 1 55 0.18 1 1 90 0.00 1 1 148 0.57 1 1 178 0.00 0 0 180 0.00 0 0	AuditScore FirmSize Leverage NetMargin Industry Beta	43 1 10.72 0.84 0.28 6 2.39608109 55 0 9.95 0.79 0.12 5 -0.02335071	90 1 10.47 1.72 0.08 3 1.91178492	148 0 11.31 4.35 0.05 1 1.03225025	178 0 12.51 339.01 -0.05 4 8.13622199	180 0 12.51 793.47 -0.01 4 1.26938370
CostEquity 43 0.0673298788 55 -0.0006561551 90 -0.0413857327	148 0.0290062319 178 0.2286278379 180 -0.0274456262	Companies Year Ra ROA ROE TobinsQ AlphaJensen	43 111 2013 -0.05351142 0.22 2.22 NA -0.12084130	142 145 2013 0.08959874 0.03 0.11 1.47 0.10163216	178 156 2013 0.12738044 0.03 -0.73 1.03 -0.10124740	179 156 2014 -0.16929206 0.00 -0.11 1.03 -0.16753157
180 156 2015 -0.24246782 0.00 -0.08 1.03 -0.21502220	313 2 2013 0.07267722 0.08 0.28 0.36 -0.03982472	CarbonProductivity WaterProductivity WasteProductivity	43 0.30 0.89 0.77 142 0.79 0.00 0.00 178 0.00 0.00 0.00 179 0.00 0.00 0.00 180 0.00 0.00 0.00	313 0.14 0.16 0.23	EnergyProductivity SustainabilityPayLink SustainableThemedCommitment	43 0.12 1 1 142 0.97 0 0 178 0.00 0 0 179 0.00 0 0 180 0.00 0 0 313 0.05 1 1
AuditScore FirmSize Leverage NetMargin Industry Beta	43 1 10.72 0.84 0.28 6 2.3960811 142 0 9.89 0.58 0.05 1 -0.4282355	178 0 12.51 339.01 -0.05 4 8.1362220	179 0 12.51 875.59 -0.05 4 2.9341434	180 0 12.51 793.47 -0.01 4 1.2693837	313 0 10.63 0.69 0.06 6 4.0036277	CostEquity 43 0.067329879 142 -0.012033416
178 0.228627838 179 -0.001760486	180 -0.027445626	313 0.112501938				

Table 1: Model 1 - Energy

	<i>Dependent variable:</i>	
	ROA	
	(1)	(2)
SustainabilityPayLink	−0.002 (0.004)	0.001 (0.003)
SustainableThemedCommitment	0.009* (0.005)	0.013*** (0.004)
AuditScore	−0.004 (0.005)	−0.002 (0.004)
CarbonProductivity	−0.027 (0.017)	−0.011 (0.012)
EnergyProductivity	0.013 (0.014)	−0.003 (0.010)
WaterProductivity	0.034*** (0.012)	0.024*** (0.008)
WasteProductivity	0.002 (0.012)	0.004 (0.008)
Leverage	−0.00000 (0.00004)	−0.00002 (0.00003)
NetMargin	0.056*** (0.004)	0.173*** (0.007)
FirmSize	−0.026*** (0.004)	−0.033*** (0.004)
Industry	−0.003*** (0.001)	−0.003*** (0.001)
AlphaJensen	0.102*** (0.023)	0.008 (0.016)
Constant	0.339*** (0.045)	0.401*** (0.038)
Observations	1,119	1,116
R ²	0.192	0.387
Adjusted R ²	0.183	0.380
F Statistic	21.859*** (df = 12; 1106)	57.985*** (df = 12; 1103)

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 2: Model 1 - No Energy

	<i>Dependent variable:</i>	
	ROA	
	(1)	(2)
SustainabilityPayLink	−0.002 (0.004)	0.001 (0.003)
SustainableThemedCommitment	0.010* (0.005)	0.012*** (0.004)
AuditScore	−0.004 (0.005)	−0.002 (0.004)
CarbonProductivity	−0.015 (0.011)	−0.014* (0.007)
WaterProductivity	0.036*** (0.012)	0.024*** (0.008)
WasteProductivity	0.0002 (0.012)	0.004 (0.008)
Leverage	−0.00000 (0.00004)	−0.00002 (0.00003)
NetMargin	0.056*** (0.004)	0.173*** (0.007)
FirmSize	−0.026*** (0.004)	−0.033*** (0.004)
Industry	−0.003*** (0.001)	−0.003*** (0.001)
AlphaJensen	0.102*** (0.023)	0.008 (0.016)
Constant	0.340*** (0.045)	0.401*** (0.038)
Observations	1,119	1,116
R ²	0.191	0.387
Adjusted R ²	0.183	0.381
F Statistic	23.778*** (df = 11; 1107)	63.287*** (df = 11; 1104)

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 3: Model 1 - Short Version

	<i>Dependent variable:</i>
	ROA
SustainabilityPayLink	0.0004 (0.003)
SustainableThemedCommitment	0.012*** (0.004)
AuditScore	-0.001 (0.004)
Leverage	-0.00002 (0.00003)
NetMargin	0.175*** (0.007)
FirmSize	-0.033*** (0.004)
Industry	-0.003*** (0.001)
AlphaJensen	0.007 (0.016)
Constant	0.402*** (0.039)
Observations	1,116
R ²	0.379
Adjusted R ²	0.374
F Statistic	84.367*** (df = 8; 1107)
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01

Table 4: Model 1 - Short Version

	<i>Dependent variable:</i>
	ROA
CarbonProductivity	−0.015** (0.007)
WaterProductivity	0.025*** (0.008)
WasteProductivity	0.003 (0.008)
Leverage	−0.00002 (0.00003)
NetMargin	0.172*** (0.007)
FirmSize	−0.032*** (0.004)
Industry	−0.003*** (0.001)
AlphaJensen	0.010 (0.016)
Constant	0.387*** (0.038)
Observations	1,116
R ²	0.380
Adjusted R ²	0.376
F Statistic	84.921*** (df = 8; 1107)
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01

Table 5: Model 2 - Comparaison with and without outliers

	<i>Dependent variable:</i>	
	log(TobinsQ)	
	(1)	(2)
SustainabilityPayLink	0.040 (0.026)	0.034 (0.025)
SustainableThemedCommitment	0.033 (0.036)	0.070** (0.035)
AuditScore	0.037 (0.036)	0.069** (0.034)
CarbonProductivity	-0.011 (0.057)	-0.054 (0.056)
WaterProductivity	0.049 (0.063)	0.075 (0.061)
WasteProductivity	-0.165*** (0.062)	-0.167*** (0.062)
Leverage	0.0001 (0.0002)	-0.001 (0.002)
NetMargin	-0.011 (0.022)	0.026 (0.058)
FirmSize	-0.693*** (0.045)	-1.029*** (0.050)
Industry	-0.021 (0.013)	-0.025** (0.012)
AlphaJensen	0.772*** (0.125)	0.781*** (0.126)
Constant	7.479*** (0.464)	10.954*** (0.516)
Observations	1,025	997
R ²	0.226	0.333
Adjusted R ²	0.218	0.325
F Statistic	26.950*** (df = 11; 1013)	44.692*** (df = 11; 985)

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 6: Model 3 - Comparaison with and without outliers

	<i>Dependent variable:</i>	
	ROE	
	(1)	(2)
SustainabilityPayLink	0.003 (0.030)	0.007 (0.016)
SustainableThemedCommitment	0.142*** (0.035)	0.068*** (0.020)
AuditScore	0.003 (0.035)	−0.004 (0.020)
CarbonProductivity	−0.111 (0.070)	−0.061 (0.038)
WaterProductivity	0.095 (0.079)	0.053 (0.043)
WasteProductivity	0.068 (0.078)	0.004 (0.041)
Leverage	0.003*** (0.0003)	−0.007*** (0.001)
NetMargin	0.110*** (0.028)	0.514*** (0.043)
FirmSize	−0.098*** (0.030)	−0.049*** (0.018)
Industry	−0.004 (0.007)	−0.002 (0.004)
AlphaJensen	0.356** (0.152)	0.174** (0.082)
Constant	1.129*** (0.306)	0.611*** (0.182)
Observations	1,119	1,103
R ²	0.135	0.160
Adjusted R ²	0.127	0.152
F Statistic	15.765*** (df = 11; 1107)	18.900*** (df = 11; 1091)

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 7: Model 4 - Comparaison with and without outliers

	<i>Dependent variable:</i>	
	AlphaJensen	
	(1)	(2)
SustainabilityPayLink	0.001 (0.004)	0.001 (0.003)
SustainableThemedCommitment	0.001 (0.004)	0.002 (0.003)
AuditScore	0.002 (0.004)	0.001 (0.003)
CarbonProductivity	−0.002 (0.012)	−0.009 (0.010)
WaterProductivity	−0.004 (0.014)	0.004 (0.012)
WasteProductivity	0.003 (0.014)	−0.001 (0.012)
Leverage	−0.0001*** (0.00004)	−0.0002*** (0.0001)
NetMargin	0.014*** (0.005)	0.021*** (0.008)
FirmSize	−0.004 (0.003)	−0.003 (0.003)
Industry	0.001 (0.001)	0.0002 (0.001)
Beta	−0.016*** (0.002)	−0.013*** (0.002)
Constant	0.045 (0.030)	0.039 (0.026)
Observations	1,119	1,097
R ²	0.066	0.054
Adjusted R ²	0.057	0.045
F Statistic	7.128*** (df = 11; 1107)	5.663*** (df = 11; 1085)

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 8: Model 5 - Comparaison with and without outliers

	<i>Dependent variable:</i>	
	Ra	
	(1)	(2)
SustainabilityPayLink	−0.007*** (0.002)	−0.006*** (0.001)
SustainableThemedCommitment	−0.001 (0.002)	−0.002 (0.001)
AuditScore	−0.005*** (0.002)	−0.004*** (0.001)
CarbonProductivity	0.040*** (0.005)	0.042*** (0.005)
WaterProductivity	0.012** (0.006)	0.012** (0.005)
WasteProductivity	0.018*** (0.006)	0.015*** (0.005)
Leverage	0.00003** (0.00002)	0.00004 (0.00002)
NetMargin	0.001 (0.002)	0.006 (0.004)
FirmSize	0.001 (0.001)	0.0003 (0.001)
Industry	0.00000 (0.0003)	0.00001 (0.0002)
AlphaJensen	0.999*** (0.012)	1.014*** (0.011)
Constant	−0.011 (0.012)	−0.002 (0.011)
Observations	1,119	1,096
R ²	0.871	0.890
Adjusted R ²	0.870	0.889
F Statistic	681.957*** (df = 11; 1107)	795.985*** (df = 11; 1084)

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 9: Hausman Test PValue

Model	P-Value
Model 1 without outliers	0.0328
Model 2 without outliers	0.9999
Model 3 without outliers	0
Model 5 without outliers	0

Table 10: Fixed Effect Model - NoOutlier NoEnergy (1/2)

	<i>Dependent variable:</i>		
	ROA (1)	log(TobinsQ) (2)	ROE (3)
SustainabilityPayLink	−0.0003 (0.004)	0.031 (0.026)	−0.011 (0.019)
SustainableThemedCommitment	0.019*** (0.006)	0.067* (0.039)	0.051* (0.029)
AuditScore	−0.001 (0.005)	0.049 (0.038)	−0.013 (0.028)
CarbonProductivity	−0.016** (0.008)	−0.058 (0.056)	−0.094** (0.040)
WaterProductivity	0.024*** (0.009)	0.065 (0.061)	0.059 (0.044)
WasteProductivity	0.005 (0.008)	−0.169*** (0.062)	−0.011 (0.043)
Leverage	−0.00003 (0.00003)	−0.002 (0.002)	−0.008*** (0.002)
NetMargin	0.184*** (0.008)	0.026 (0.060)	0.499*** (0.047)
FirmSize	−0.025*** (0.007)	−0.877*** (0.092)	−0.031 (0.034)
AlphaJensen	0.006 (0.016)	0.737*** (0.125)	0.194** (0.084)
Observations	1,116	997	1,103
R ²	0.437	0.191	0.185
Adjusted R ²	0.142	−0.250	−0.244
F Statistic	56.804*** (df = 10; 732)	15.249*** (df = 10; 644)	16.405*** (df = 10; 722)

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 11: Fixed Effect Model - NoOutlier NoEnergy (2/2)

	<i>Dependent variable:</i>
	Ra
SustainabilityPayLink	−0.013*** (0.003)
SustainableThemedCommitment	−0.008* (0.005)
AuditScore	−0.023*** (0.005)
CarbonProductivity	0.049*** (0.007)
WaterProductivity	0.014* (0.008)
WasteProductivity	0.015* (0.008)
Leverage	0.00004 (0.00003)
NetMargin	0.015* (0.008)
FirmSize	−0.015*** (0.006)
AlphaJensen	1.031*** (0.015)
Observations	1,096
R ²	0.884
Adjusted R ²	0.823
F Statistic	545.755*** (df = 10; 713)
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01

Table 12: Best RE Model - No out 1/2

	<i>Dependent variable:</i>	
	ROA (1)	ROE (2)
SustainabilityPayLink	0.001 (0.003)	0.007 (0.016)
SustainableThemedCommitment	0.012*** (0.004)	0.068*** (0.020)
AuditScore	-0.002 (0.004)	-0.004 (0.020)
CarbonProductivity	-0.014* (0.007)	-0.061 (0.038)
WaterProductivity	0.024*** (0.008)	0.053 (0.043)
WasteProductivity	0.004 (0.008)	0.004 (0.041)
Leverage	-0.00002 (0.00003)	-0.007*** (0.001)
NetMargin	0.173*** (0.007)	0.514*** (0.043)
FirmSize	-0.033*** (0.004)	-0.049*** (0.018)
Industry	-0.003*** (0.001)	-0.002 (0.004)
AlphaJensen	0.008 (0.016)	0.174** (0.082)
Constant	0.401*** (0.038)	0.611*** (0.182)
Observations	1,116	1,103
R ²	0.387	0.160
Adjusted R ²	0.381	0.152
F Statistic	63.287*** (df = 11; 1104)	18.900*** (df = 11; 1091)

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 13: Best RE Model - No out 2/2

	<i>Dependent variable:</i>	
	log(TobinsQ)	Ra
	(1)	(2)
SustainabilityPayLink	0.034 (0.025)	−0.006*** (0.001)
SustainableThemedCommitment	0.070** (0.035)	−0.002 (0.001)
AuditScore	0.069** (0.034)	−0.004*** (0.001)
CarbonProductivity	−0.054 (0.056)	0.042*** (0.005)
WaterProductivity	0.075 (0.061)	0.012** (0.005)
WasteProductivity	−0.167*** (0.062)	0.015*** (0.005)
Leverage	−0.001 (0.002)	0.00004 (0.00002)
NetMargin	0.026 (0.058)	0.006 (0.004)
FirmSize	−1.029*** (0.050)	0.0003 (0.001)
Industry	−0.025** (0.012)	0.00001 (0.0002)
AlphaJensen	0.781*** (0.126)	1.014*** (0.011)
Constant	10.954*** (0.516)	−0.002 (0.011)
Observations	997	1,096
R ²	0.333	0.890
Adjusted R ²	0.325	0.889
F Statistic	44.692*** (df = 11; 985)	795.985*** (df = 11; 1084)

Note:

*p<0.1; **p<0.05; ***p<0.01

Figure 1: Observations considered as outliers in model 1 (i.e. Roa)

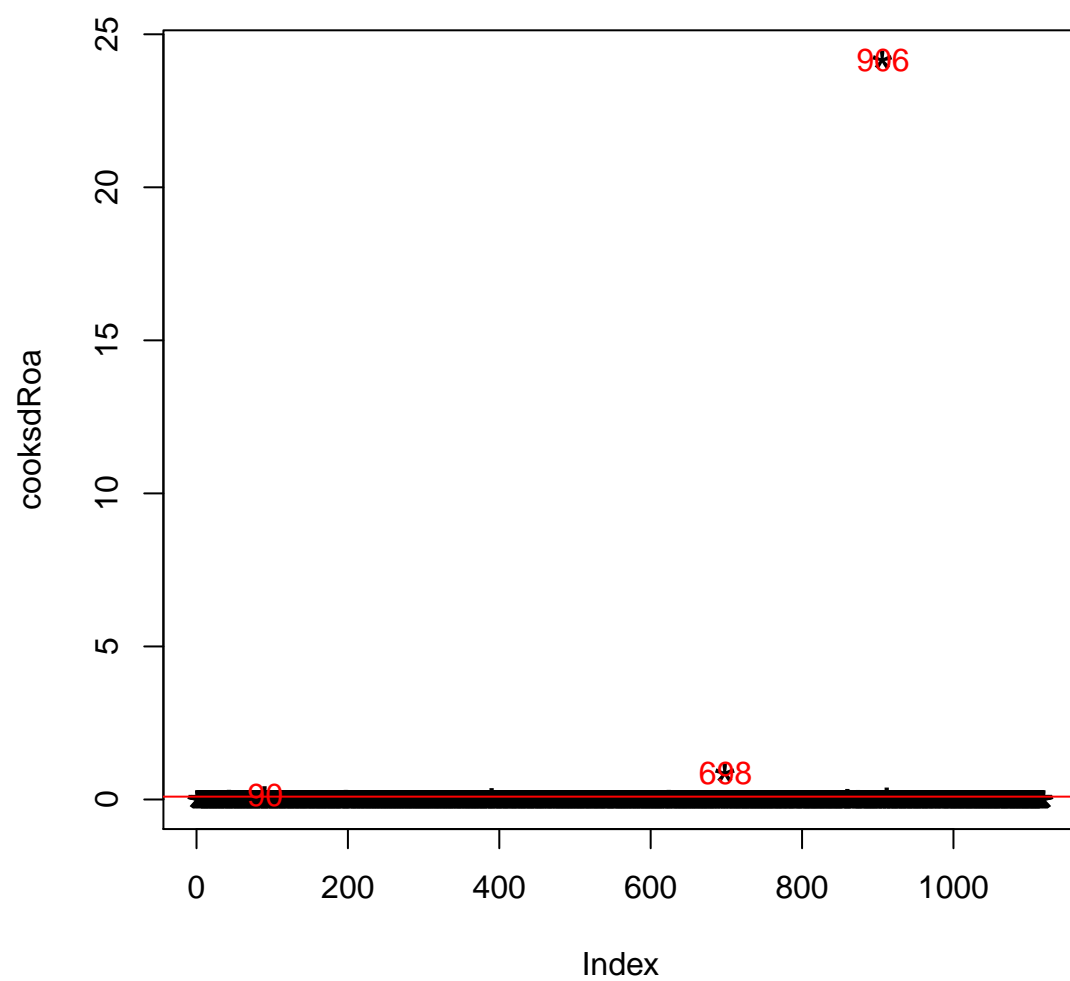


Figure 2: Observations considered as outliers in model 2 (i.e. Tobin's Q)

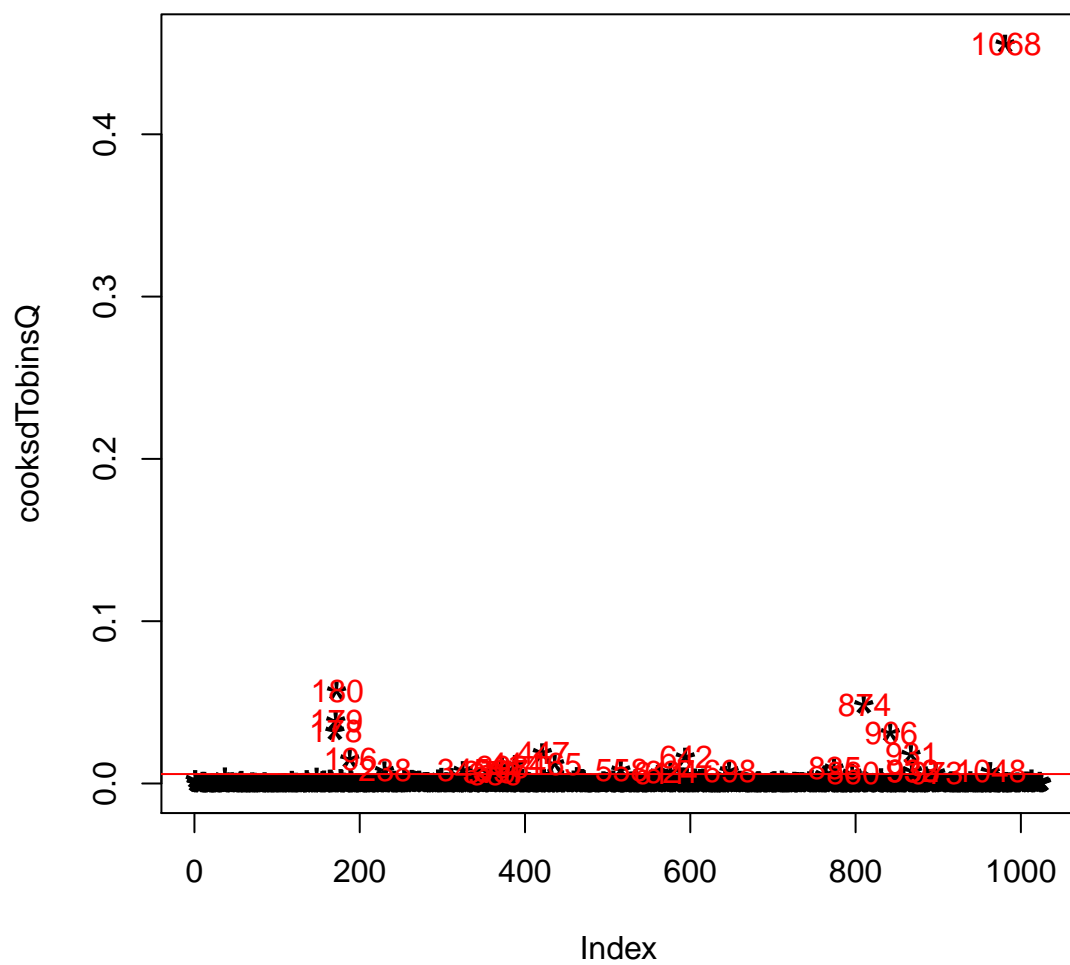


Figure 3: Observations considered as outliers in model 1 (i.e. Roe)

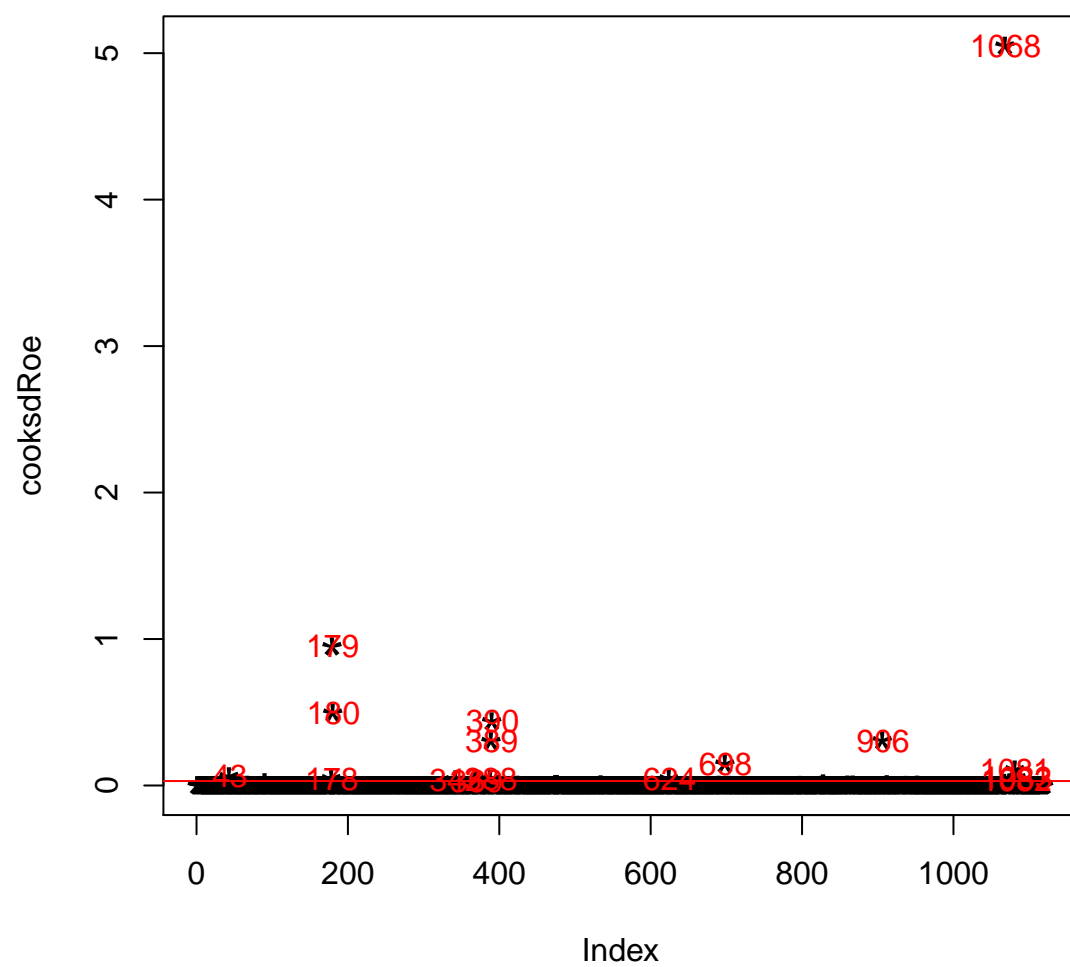


Figure 4: Observations considered as outliers in model 4 (i.e. Jensen's Alpha)

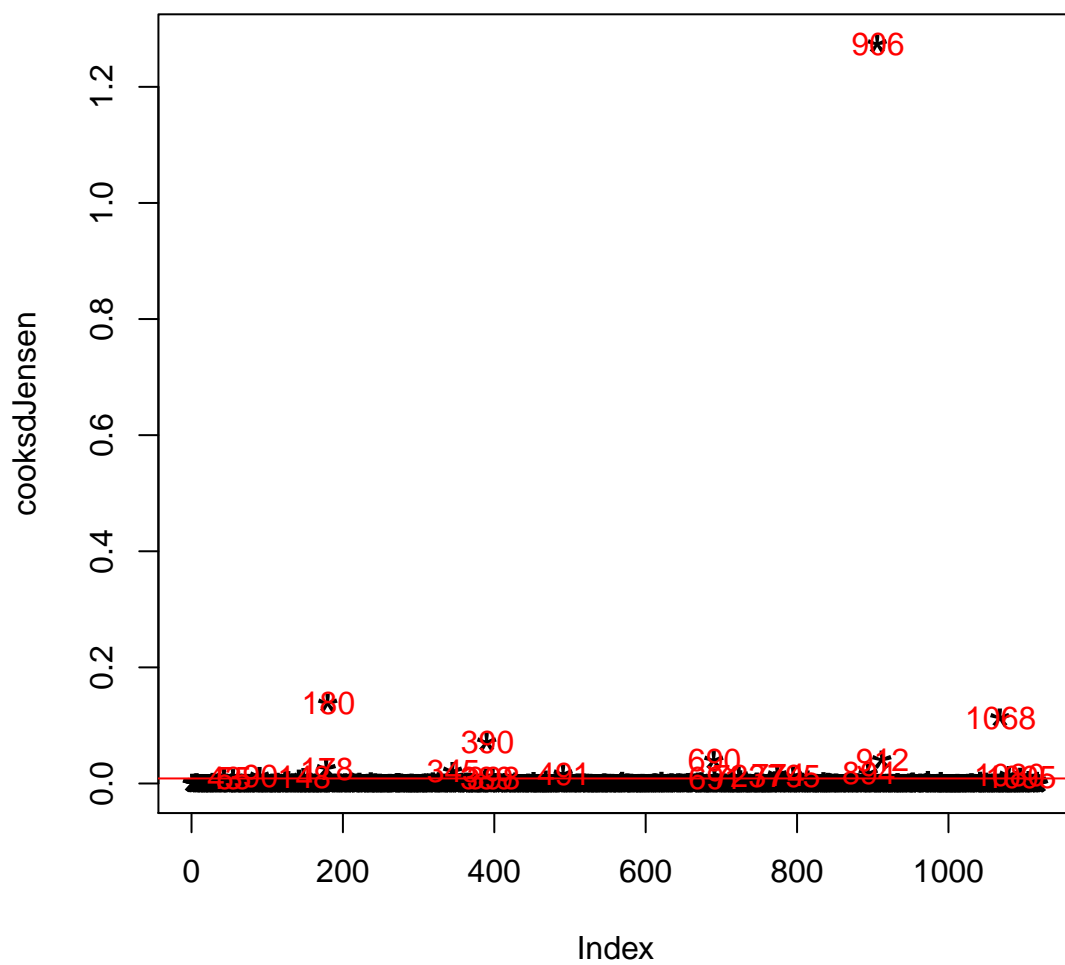


Figure 5: Observations considered as outliers in model 5 (i.e.Compounded Returns)

