

## Referências Bibliográficas

AMARAL, R.; *A Teoria das Cartas de Controle Aplicada a Tomadas de Decisão no Mercado de Ações Brasileiro*. Monografia de Final de Curso, ENCE, Rio de Janeiro, 2000.

ANDIMA; *Brasil para Investidores Estrangeiros*. Rio de Janeiro, 1999. 3ª edição.

ANDIMA; *Relatório econômico – Sistema Financeiro no Mercosul: Uma Análise Comparativa*. Rio de Janeiro, 1999.

BAPTISTA, N.; *Introdução ao Estudo de Controle Estatístico de Processo - CEP*. Rio de Janeiro: Editora Qualitymark , 1996.

BESSADA, O.; *O Mercado Futuro e de Opções: os fundamentos teórico-operacionais para a montagem de estratégias de investimentos nos mercados derivativos*. Rio de Janeiro: Editora Record, 1995. 2ª edição.

BESTERFIELD, D.; *Quality Control*. Upper Saddle River: Prentice Hall, Inc , 2001. 6ª edição.

BONOMO, M. (Org); *Finanças Aplicadas ao Brasil*. Rio de Janeiro: Editora FGV, 2002.

BOVESPA; *Comprar e vender ações – Mercado à Vista*. São Paulo, Agosto/98.

BOVESPA; *Mercado de capitais – Introdução*. São Paulo, Junho/99.

BOVESPA; *Relatório Anual*. São Paulo, 1998

BOX, G; JENKINS, G. & REINSEL, G.; *Time Series Analysis: Forecasting and Control*. New Jersey: Prentice Hall, 1994, 3<sup>rd</sup> Edition.

BREALEY, R.A. & MYERS, S.C.; *Princípios de Finanças Empresariais*. Portugal: Editora McGrawHill de Portugal, LTDA, 1992. 3ª edição.

BREYFOGLE III, F.; CUPELLO, J. & MEADOWS, B.; *Managing Six Sigma: A Practical Guide to understanding, Assessing, and implementing the strategy That Yields Bottom-Line Success*. New York: John Wiley & Sons, Inc, 2001.

BUSSAB, W. & MORETTIN, P.; *Estatística Básica*. São Paulo: Editora Saraiva, 2002, 5ª edição.

BVRJ; *História da Bolsa de Valores do Rio de Janeiro*. Rio de Janeiro.

CAVALCANTE, F. & RUDGE, L.F.; *Mercado de Capitais*. Belo Horizonte: Comissão Nacional de Bolsas de Valores, 1996. 3ª edição.

COCHRAN, W.; *Sampling techniques*. New York: John Wiley & Sons, 1977.

- COMISSÃO NACIONAL DE BOLSA DE VALORES; *Introdução ao Mercado de Ações*. São Paulo, 1985.
- COPELAND, T., KOLLER, T. & MURRIN, J.; *Avaliação de Empresas – Valuation: Calculando e gerenciando o valor das Empresas*, São Paulo: Makron Books Ltda; 2002.
- COSTA, A.F.; EPPRECHT, E. & CARPINETTI, L.C.; *Controle Estatístico de Qualidade*, São Paulo: Editora Atlas, 2004.
- COSTA, P.H. & BAIDYA, T.K.; *Métodos de Medição de Risco de Mercado: um Estudo Comparativo*, Revista Produção, v.13, n.3, 2003.
- DEMING, W.; *Qualidade: a revolução da administração*. Rio de Janeiro: Marques-Saraiva; 1990.
- DODSON, B.; *Control Charting Dependent Data: A Case Study*. Quality Engineering, 7(4), 757-768 (1995).
- DUNCAN, A.I.; *Quality control and industrial statistics*. Illinois: Richard D. Irwin Inc., 1986.
- ECKES, G.; *A revolução Seis Sigma: o Método que Levou a GE e Outras Empresas a Transformar Processos em Lucro*. Rio de Janeiro: Campus, 2001.
- ELTON, E.J. & GRUBER, M.; *Modern Portfolio Theory and Investment Analysis*. New York: John Wiley & Sons, 1995.
- FEIGENBAUM, A.; *Controle da qualidade total*. São Paulo: Makron Books, 1994.
- FERREIRA, A. & HORITA, M.; *BM&F: A história do Mercado Futuro no Brasil*. São Paulo: Cultura Editores Associados, 1996.
- FERGUSON, C.; *Microeconomia*. Rio de Janeiro: Forense Universitária, 1990. 14ª edição.
- GITMAN, L.J.; *Princípios de Administração Financeira*. São Paulo: Editora Harbra, 1997. 7ª edição.
- GUJARATI, D.N.; *Basic Econometrics*. Singapore: Mcgraw-Hill International Editions, 1988. 2ª edição.
- HULL, J.C.; *Options, Futures and Other Derivative Securities*. New York: Prentice Hall, 1999.
- ISHIKAWA, K.; *Guide to quality control*. Tokyo: Kraus Asian Productivity Organization, 1982.
- JOHNSTON, J. & DINARDO, J.; *Métodos Econométricos*. Portugal: McGraw-Hill de Portugal, 2001. 4ª edição.
- JORION, P.; *Value At Risk: A New Benchmark for Measuring Derivatives Risk*. New York: Irwin Professional Pub, 1996.

- JURAN, J. M.; *A Qualidade Desde o Projeto: Os Novos Passos Para o Planejamento Da Qualidade em Produtos e Serviços*. São Paulo: Editora Pioneira, 1992.
- KUME, H.; *Métodos Estatísticos para Melhoria da Qualidade*. São Paulo: Editora Gente, 1993. 11ª edição.
- LARSON, H.; *Introduction to Probability Theory and Statistical Inference*. New York: John Wiley & Sons, 1982. 3ª edição.
- MAYRINK, V.D., LOSCHI, R.H. & CRUZ, F.R.; *Uma Análise Bayesiana de pontos de Mudança na Volatilidade e Retorno Esperado de Índices e Mercado Latino Americanos*. XXXV SBPO; Natal, 2003.
- MEDEIROS, P. T.; *O que é o mercado de ações*. Rio de Janeiro: Simposium Consultoria e Serviços Técnicos, 1987. 3ª edição.
- MONTGOMERY, D. C.; *Introduction to Statistical Quality Control*. New York: John Wiley & Sons, 2001, 4<sup>th</sup> Edition.
- MONTGOMERY, D. & JOHNSON, L.; *Forecasting and Time Series Analysis*. USA: McGraw-Hill Book Company, 1976.
- PEREZ-WILSON, M.; *Seis Sigma: Compreendendo o Conceito, as Implicações e os Desafios*. Rio de Janeiro: Editora Qualitymark, 1999.
- PRAZERES, P.; *Dicionário de Termos da Qualidade*. São Paulo: Editora Atlas, 1996.
- PRAZERES, P.; *Minidicionário de Termos da Qualidade*. São Paulo: Editora Atlas, 1997.
- ROSANDER, A.C.; *Applications of Quality Control in the Service Industries*. ASQC Quality Press, New York, 1985.
- RUSSO, S. L. & SAMOBYL, R.W.; *Gráficos de Controle ARMA Para Dados Correlacionados*. XXXIV SBPO; Rio de Janeiro, 2002.
- SANDRONI, P.(Org.); *Dicionário de Economia*. São Paulo: Editora Best Seller; 1989.
- SHEWHART, W. A.; *Statistical Method from the Viewpoint of Quality Control*. New York: Dover Publications Inc, 1986.
- SIQUEIRA, L.G.P.; *Controle Estatístico do Processo*. São Paulo: Editora pioneira, Equipe Grifo, 1997.
- SPIEGEL, M.; *Estatística*. São Paulo: Makron Books, 1993. 3ª edição
- UTTS, J.; *Seeing Through Statistics*. Pacific Grove: Brooks/ Cole Publishing Company, 1999. 2ª edição

VIEIRA, S.; *Estatística Para a Qualidade: Como Avaliar com Precisão a Qualidade em Produtos e Serviços*. Rio de Janeiro: Editora Campus, 1999. 2ª Tiragem.

WHEELER, D.; *Advanced Topics in Statistical Process Control: The Power Of Shewhart's Grafts*. Knoxville, Tennessee, SPC Press, 1995.

WHEELER, D. & CHAMBERS, D.; *Understanding Statistical Process Control*. New York: SPC Press, 1992.

WHEELER, D. & POLING, S.; *Building Continual Improvement: A Guide for Business*. Knoxville: SPC Press, 1998.

## Apêndice A

### Filtro Linear (conforme definição de Box, Jenkins & Reinsel [1994])

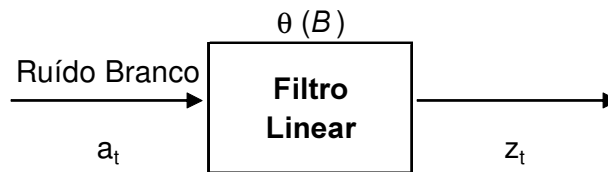
A idéia de filtro linear é proveniente da suposição de que séries temporais formadas por valores com alta dependência podem ser obtidas a partir de uma série independente de ruídos brancos  $a_t$  com distribuição normal de média zero e variância  $\sigma_a^2$ . Neste caso, o filtro linear, através de uma soma ponderada de ruídos aleatórios, seria responsável pela transformação destes ruídos em uma distribuição dependente, conforme a seguinte equação:

$$\begin{aligned} z_t &= \mu + a_t + \theta_1 a_{t-1} + \theta_2 a_{t-2} + \dots \\ &= \mu + \theta(B) a_t \end{aligned}$$

Geralmente o parâmetro  $\mu$  indica o “nível” do processo e o operador linear

$$\theta(B) = 1 + \theta_1 B + \theta_2 B^2 + \dots$$

é que promove as transformações de  $a_t$  para  $z_t$ , conforme a figura a seguir:



**Figura A.1:** Representação de uma série temporal obtida através de um filtro linear

A seqüência de ponderadores pode ser finita ou infinita, mas, se  $\sum_{j=1}^{\infty} |\theta_j| <$

$\infty$ , então o filtro é dito “estável” e o processo  $z_t$  é estacionário. O parâmetro  $\mu$  seria, sob esta hipótese, a média sobre a qual o processo varia. Nos demais casos,  $z_t$  é não estacionário e  $\mu$  pode ser visto, apenas, como um ponto de referência para o nível do processo.

## Apêndice B

### Guia para aplicação da metodologia

Para aplicar a metodologia aqui proposta, deve-se seguir os passos abaixo:

1. Obter a série histórica de pelo menos três anos das cotações diárias ( $CA_i$ ) de fechamento do ativo de interesse;
2. Transformar a série de cotações numa série de retornos logarítmicos, segundo a seguinte fórmula:  $\ln RD_i = \ln \frac{CA_i}{CA_{i-1}}$ , para  $i = 2, 3, \dots, n$ , onde  $n$  corresponde ao número de cotações totais da série obtida em 1;
3. Estimar o modelo AR(1) que melhor representa a série calculada em 2;
4. Calcular a série histórica dos resíduos  $X_i$  do modelo AR(1) estimado no passo anterior, onde  $X_i = \ln RD_i - \widehat{\ln RD}_i$ , para  $i = 2, 3, \dots, n$ ;
5. Calcular as linhas médias (LC) dos gráficos de  $X$  e de  $mR$ , segundo as seguintes fórmulas:

$$LC_X = \sum_{i=2}^n \frac{X_i}{(n-1)}; \quad LC_{mR} = \sum_{i=3}^n \frac{|\ln X_i - \ln X_{i-1}|}{(n-2)}$$

6. Calcular os limites para as estratégias, segundo as seguintes fórmulas:

$$LIC_{X40} = LC_X - 0,5 * \frac{2,66}{3} LC_{mR}; \quad LSC_{X40} = LC_X + 1,5 * \frac{2,66}{3} LC_{mR}$$

$$LIC_{X81} = LC_X - 1,5 * \frac{2,66}{3} LC_{mR}; \quad LSC_{X81} = LC_X + 3,0 * \frac{2,66}{3} LC_{mR}$$

7. Optar pelo uso da estratégia 40 ou 81;
8. Comprar o ativo de interesse na data  $j+1$  se  $X_j < LIC_{Xk}$ , sendo  $k = 40$  ou  $81$ ;
9. Estando “comprado”, vender o ativo de interesse em  $w+1$  se  $X_w > LSC_{Xk}$ .

## Anexo: Gráficos e Tabelas dos Demais Ativos



Figura A.1: Fechamento Diário - TELEMAR  
Cotação Em R\$

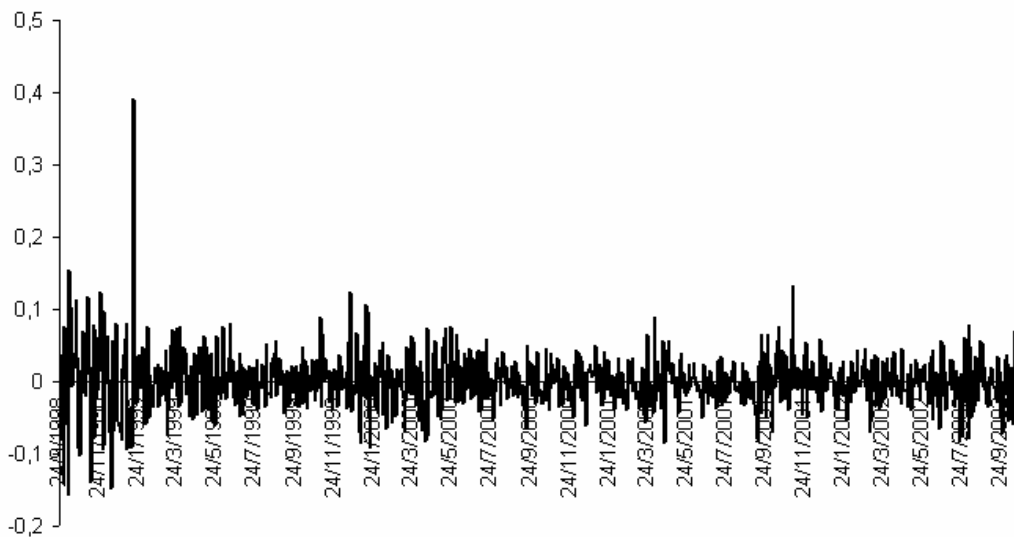
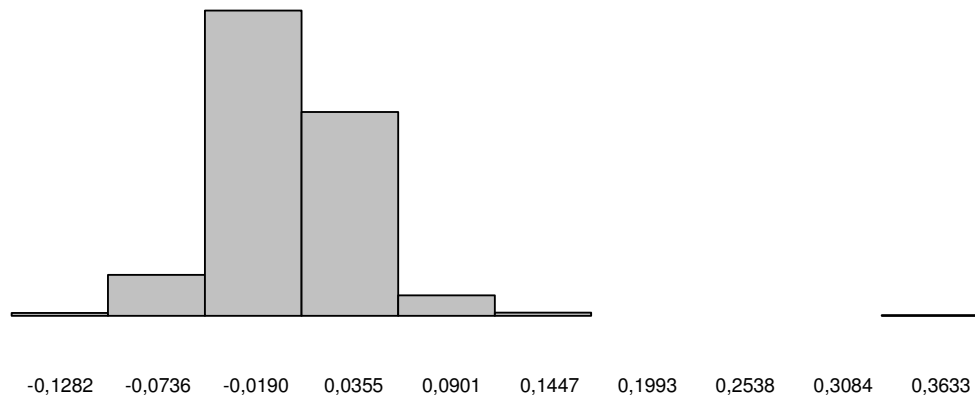
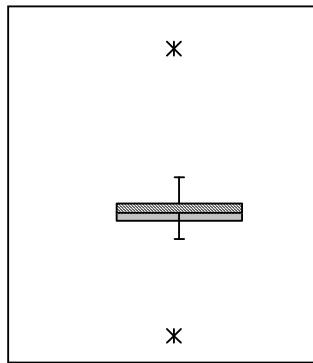


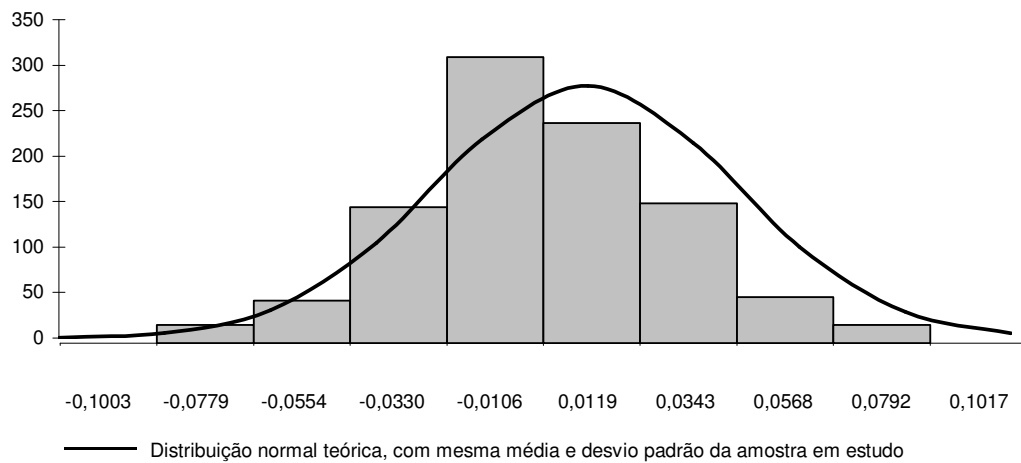
Figura A.2: ln (Retorno) Diário - TELEMAR



**Figura A.3: Histograma - In (Retorno) Diário - TELEMAR**



**Figura A.4: Box-Plot - In (Retorno) Diário - TELEMAR**

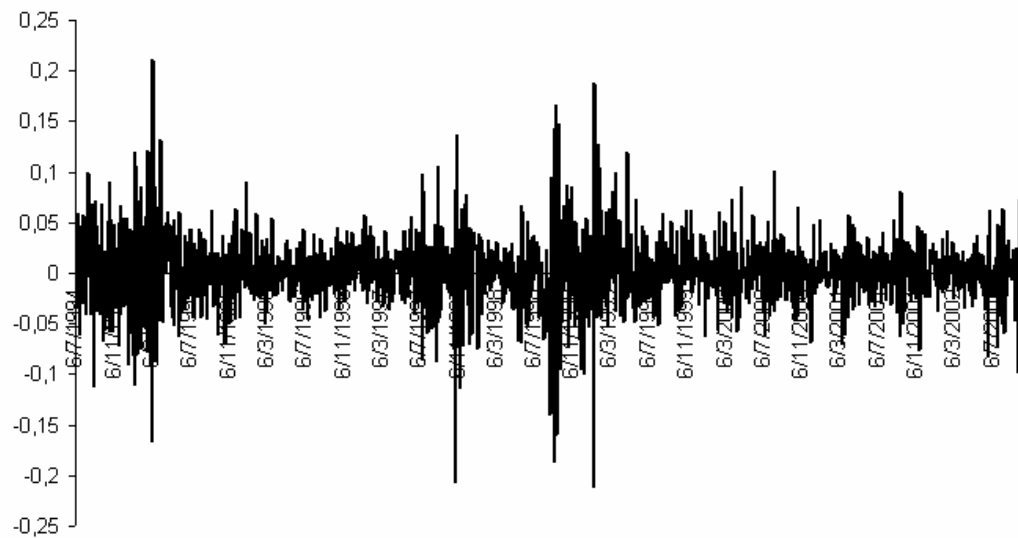


**Figura A.5: Histograma - In (Retorno) Diário - TELEMAR**  
Excluindo-se outliers

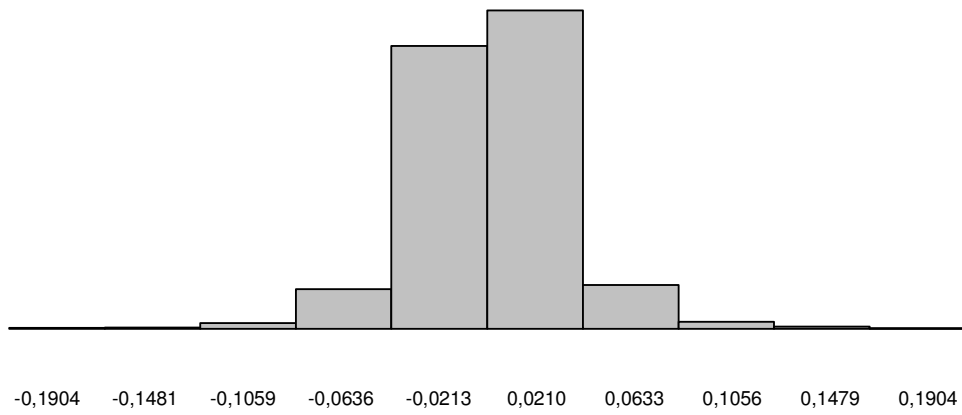




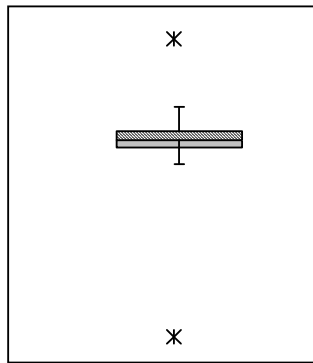
**Figura A.6: Fechamento Diário - PETROBRAS PN**  
Cotação Em R\$



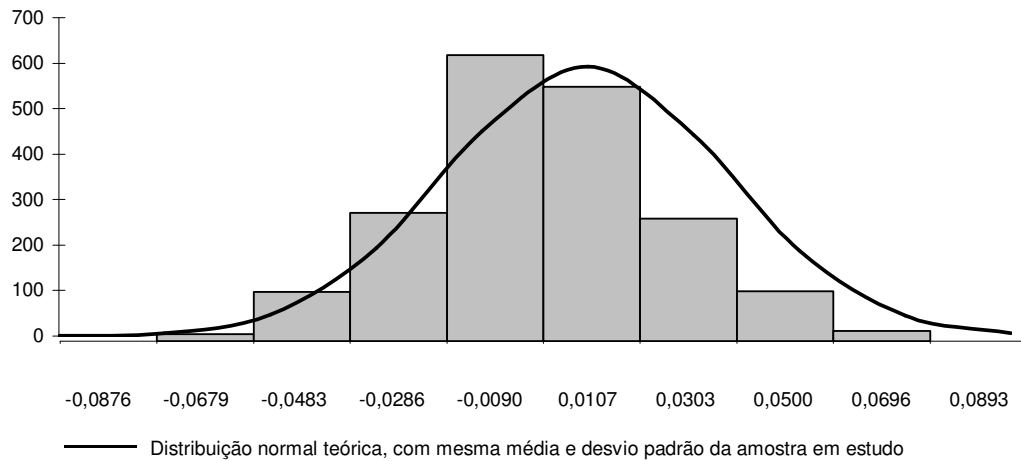
**Figura A.7: In (Retorno) Diário - PETROBRAS PN**



**Figura A.8: Histograma - ln (Retorno) Diário - PETROBRAS PN**



**Figura A.9: Box-Plot - ln (Retorno) Diário - PETROBRAS PN**

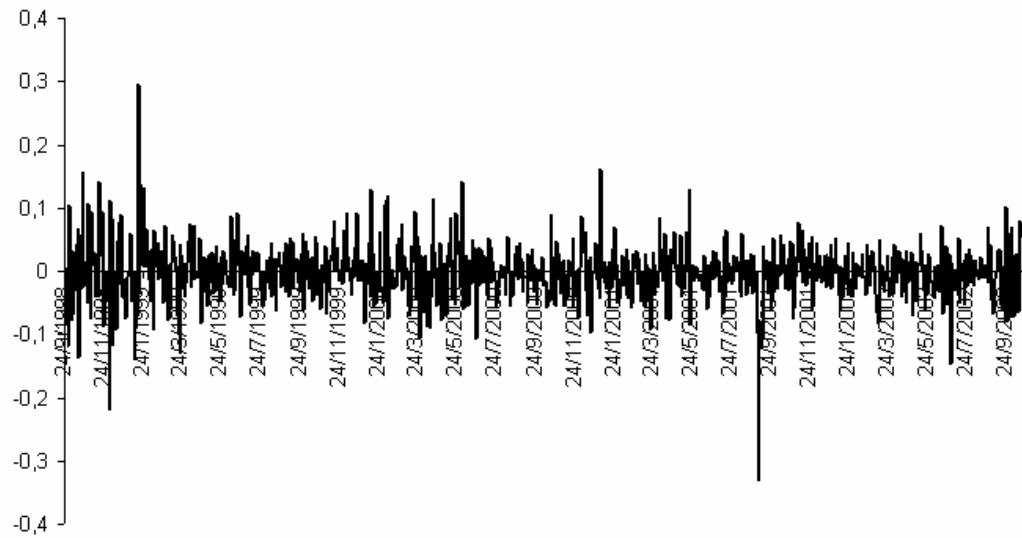


— Distribuição normal teórica, com mesma média e desvio padrão da amostra em estudo

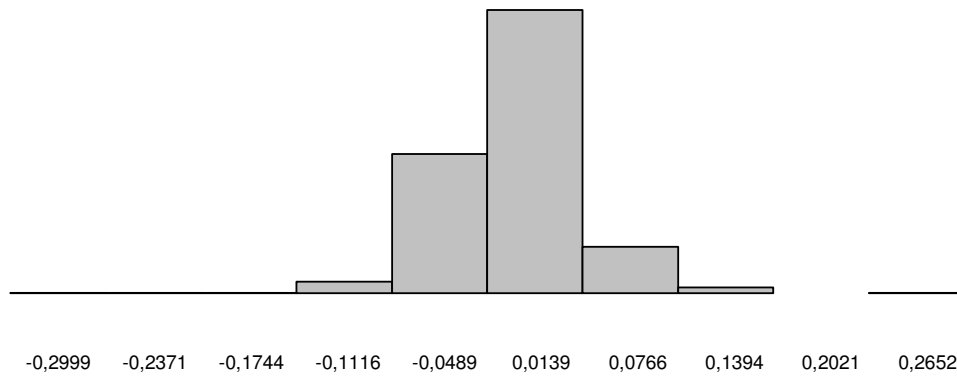
**Figura A.10: Histograma - ln (Retorno) Diário - PETROBRAS PN**  
Excluindo-se outliers



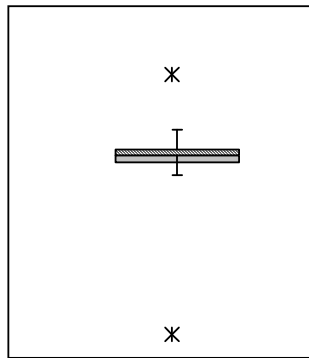
**Figura A.11: Fechamento Diário - TELESP CL PA**  
Cotação Em R\$



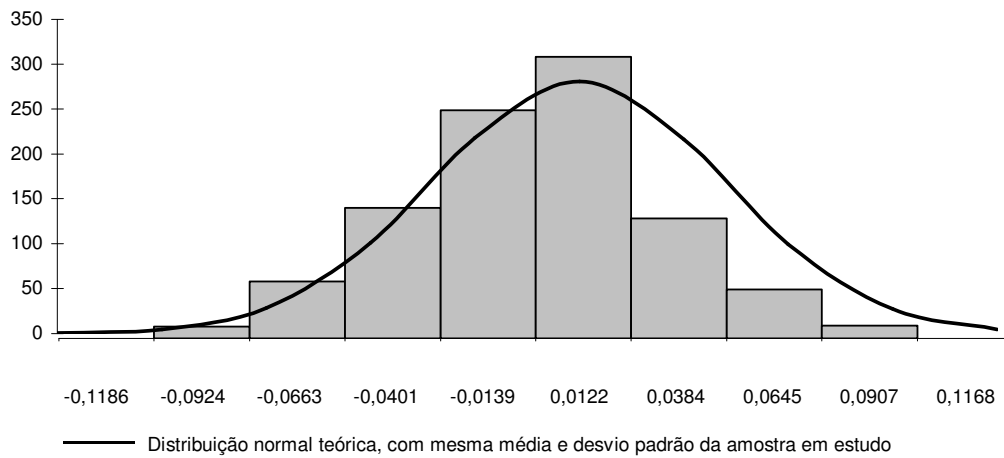
**Figura A.12: ln (Retorno) Diário - TELESP CL PA**



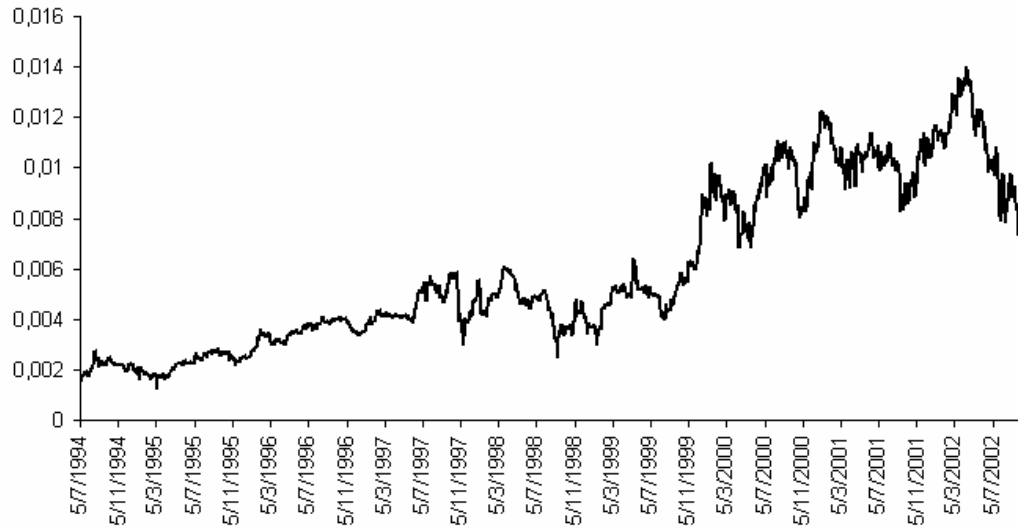
**Figura A.13: Histograma - ln (Retorno) Diário - TELESP CL PA**



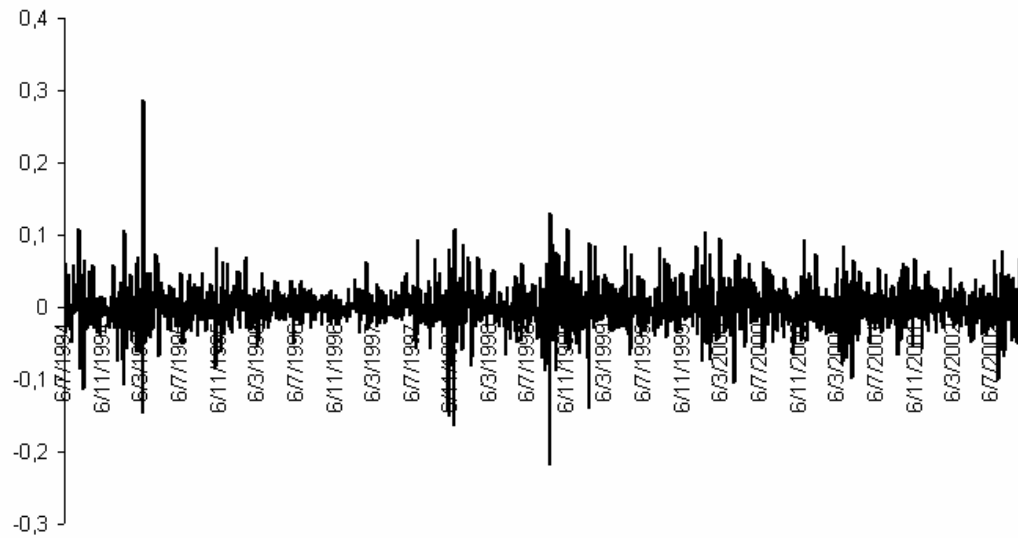
**Figura A.14: Box-Plot - ln (Retorno) Diário - TELESP CL PA**



**Figura A.15: Histograma - ln (Retorno) Diário - TELESP CL PA**  
Excluindo-se outliers



**Figura A.16: Fechamento Diário - BRADESCO**  
Cotação Em R\$



**Figura A.17: ln (Retorno) Diário - BRADESCO**

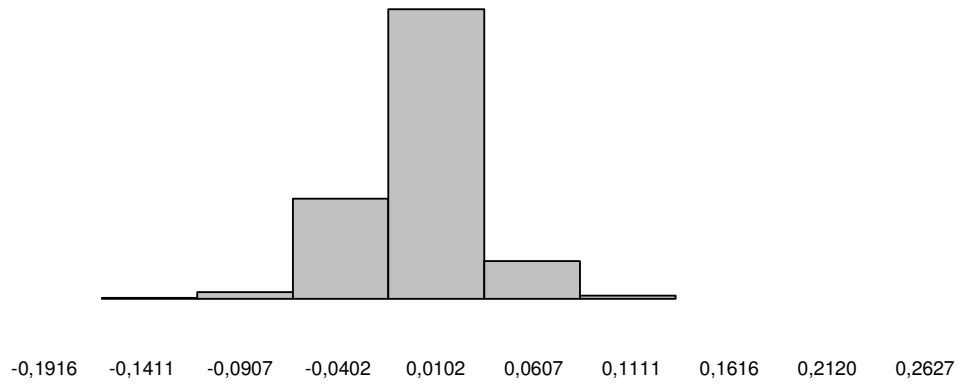


Figura A.18: Histograma - In (Retorno) Diário - BRADESCO

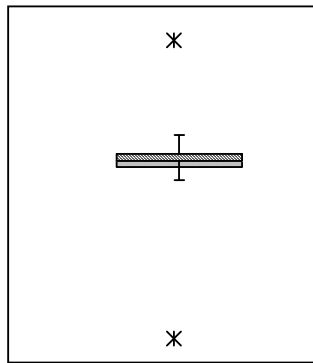


Figura A.19: Box-Plot - In (Retorno) Diário - BRADESCO

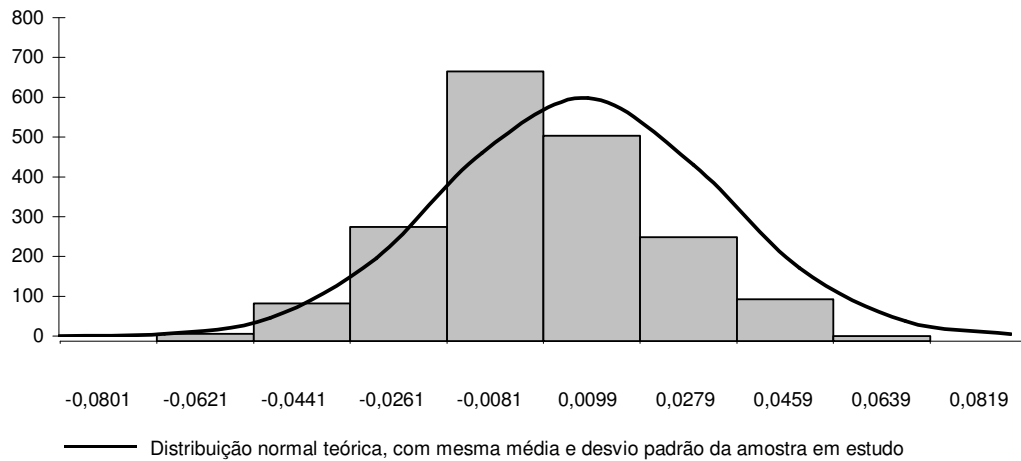
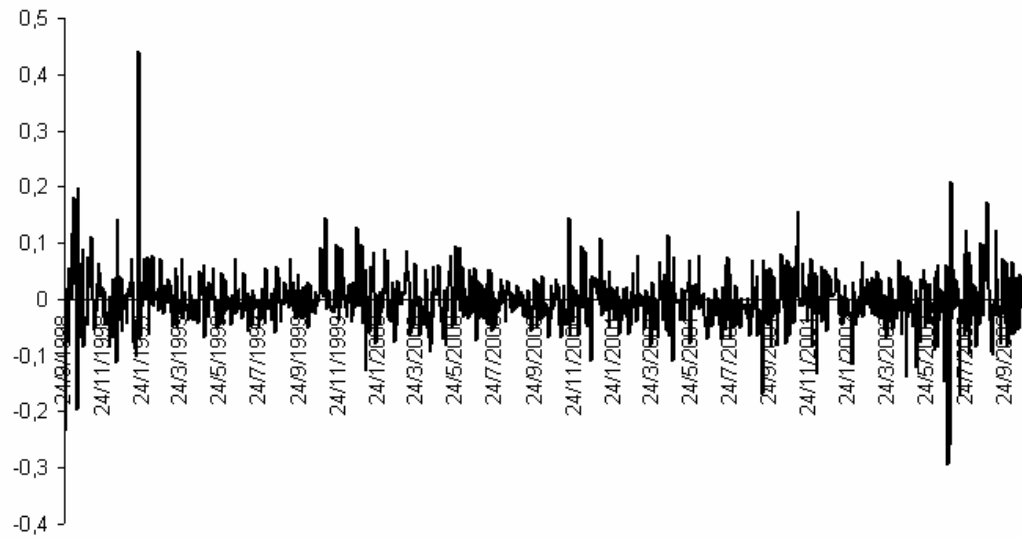


Figura A.20: Histograma - In (Retorno) Diário - BRADESCO Excluindo-se outliers



**Figura A.21: Fechamento Diário - EMBRATEL PAR**  
Cotação Em R\$



**Figura A.22: ln (Retorno) Diário - EMBRATEL PAR**

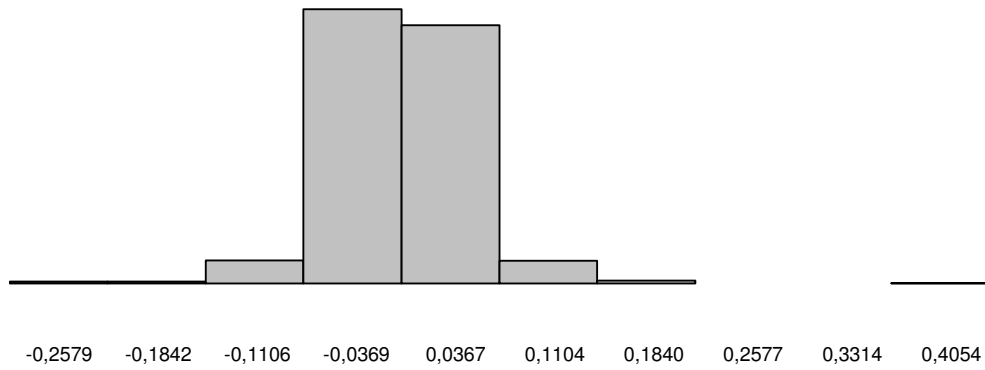


Figura A.23: Histograma - ln (Retorno) Diário - EMBRATEL PAR

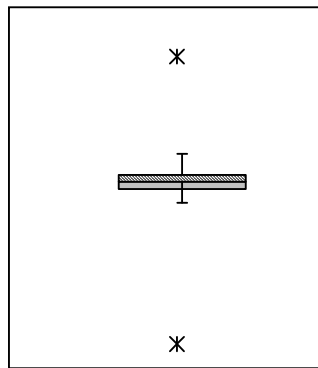


Figura A.24: Box-Plot - ln (Retorno) Diário - EMBRATEL PAR

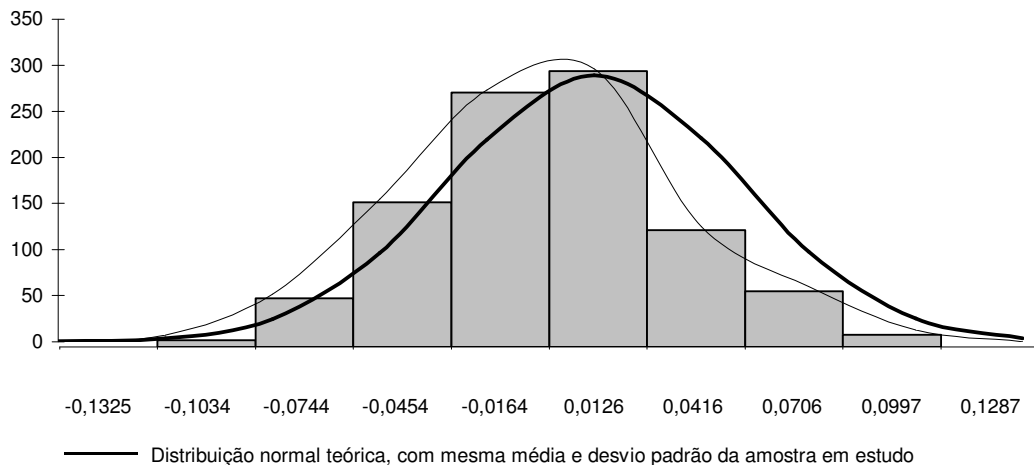
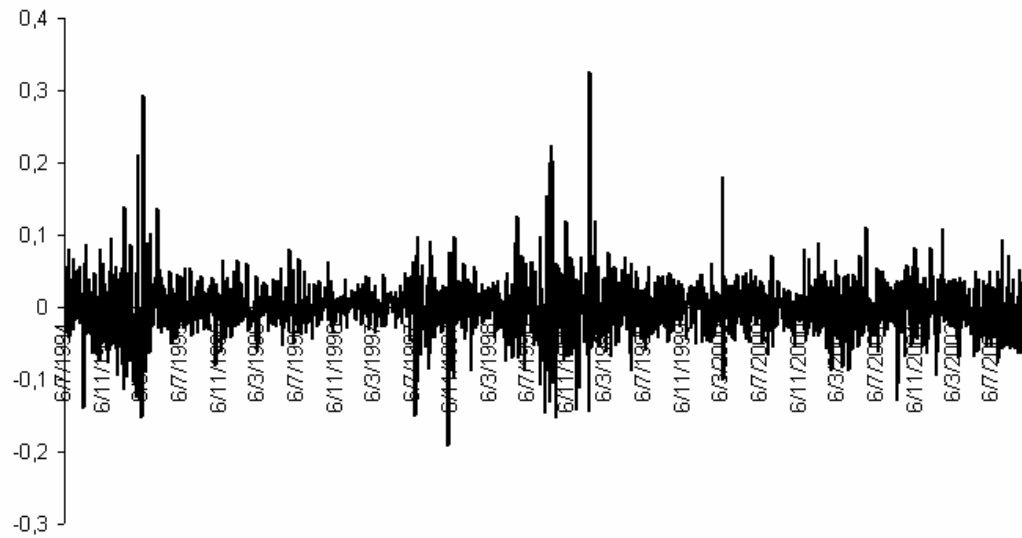


Figura A.25: Histograma - ln (Retorno) Diário - EMBRATEL PAR  
Excluindo-se outliers





**Figura A.26: Fechamento Diário - ELETROBRAS**  
Cotação Em R\$



**Figura A.27: ln (Retorno) Diário - ELETROBRAS**

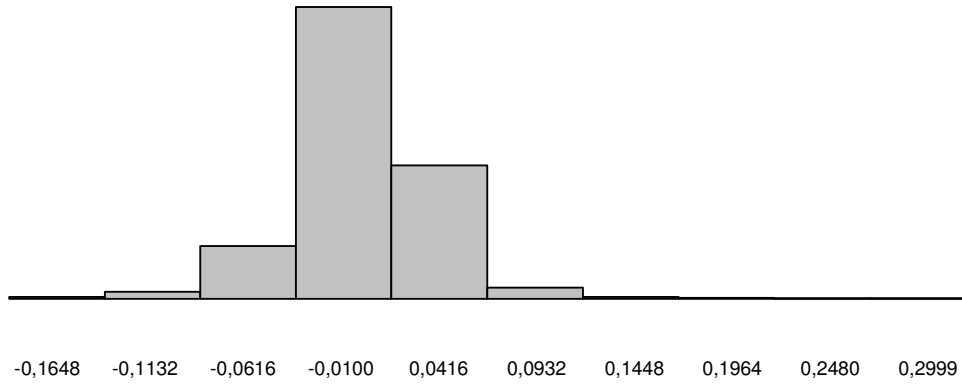


Figura A.28: Histograma - ln (Retorno) Diário - ELETROBRAS

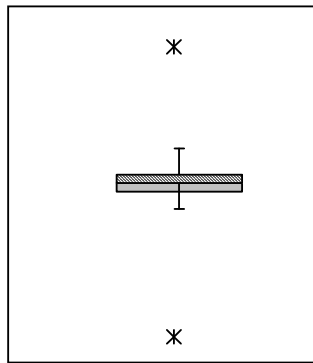
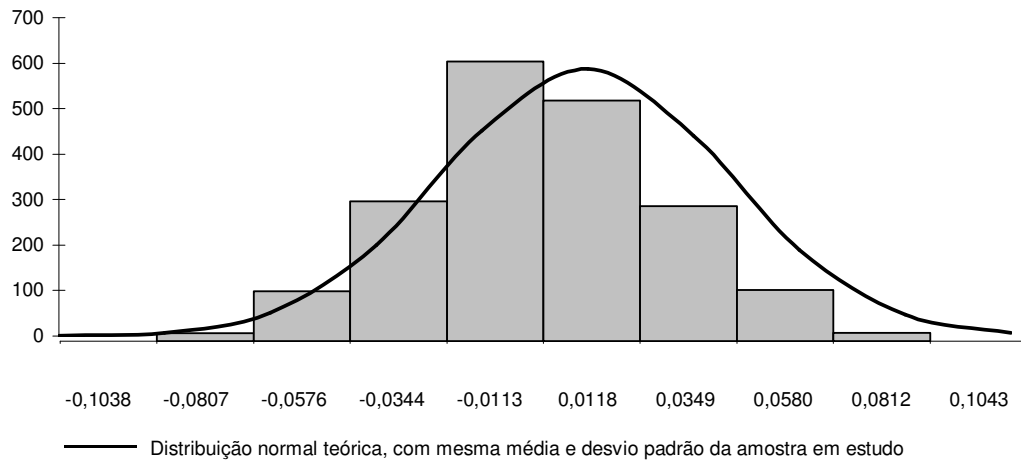


Figura A.29: Box-Plot - ln (Retorno) Diário - ELETROBRAS



— Distribuição normal teórica, com mesma média e desvio padrão da amostra em estudo

Figura A.30: Histograma - ln (Retorno) Diário - ELETROBRAS  
Excluindo-se outliers

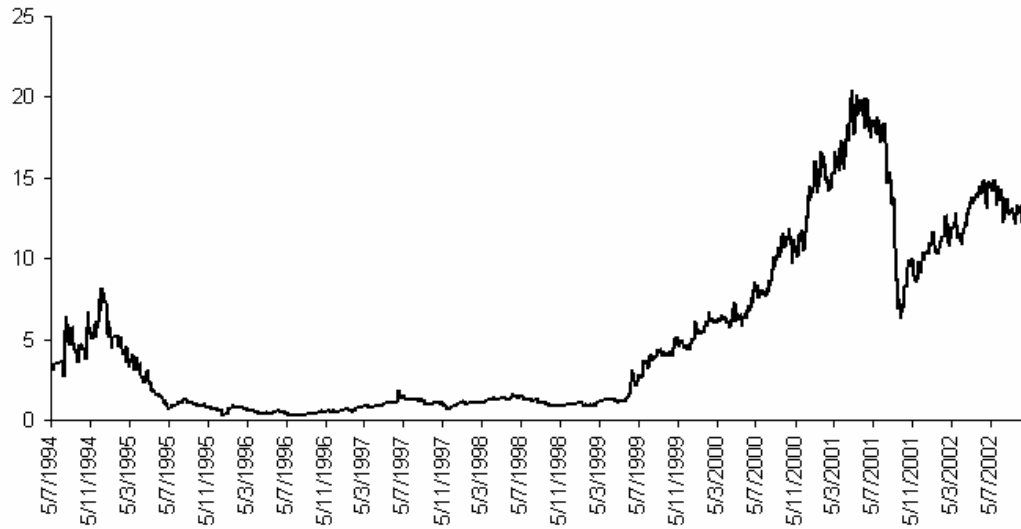


Figura A.31: Fechamento Diário - EMBRAER  
Cotação Em R\$

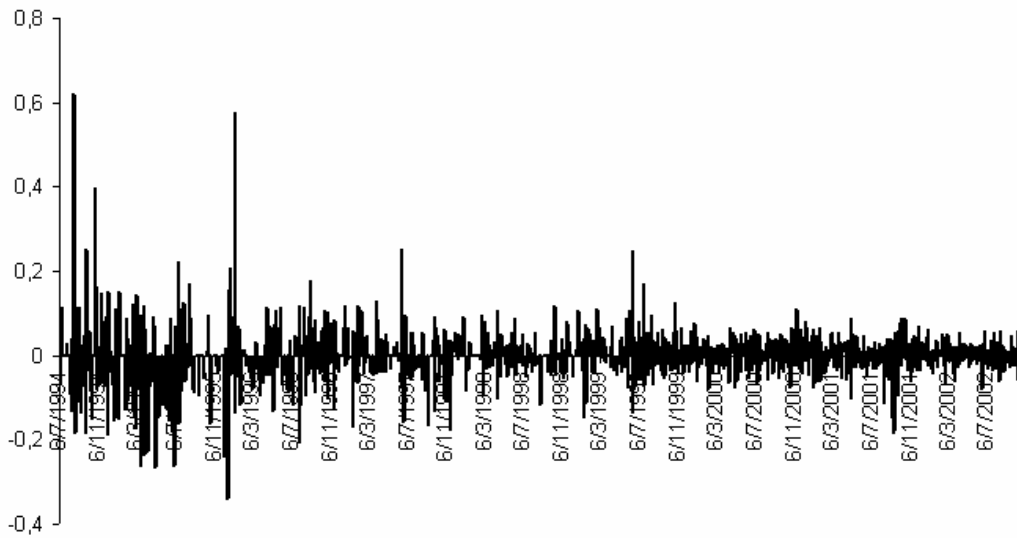
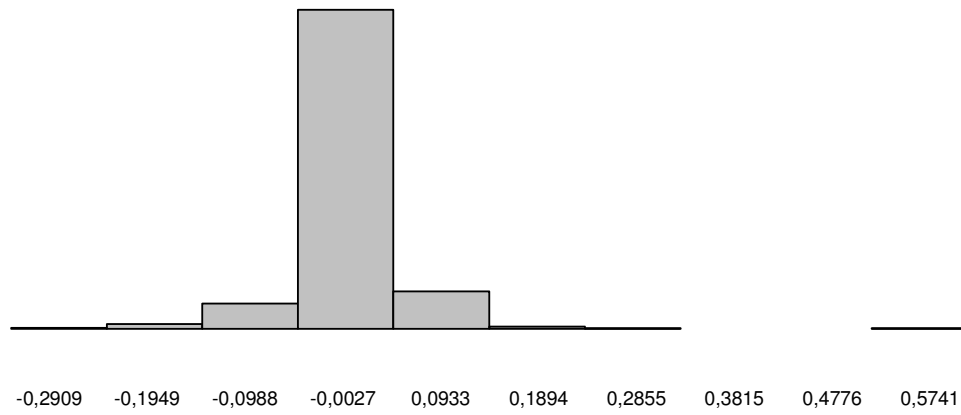
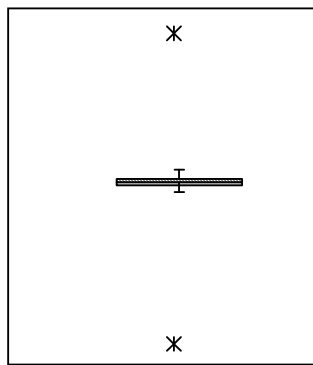


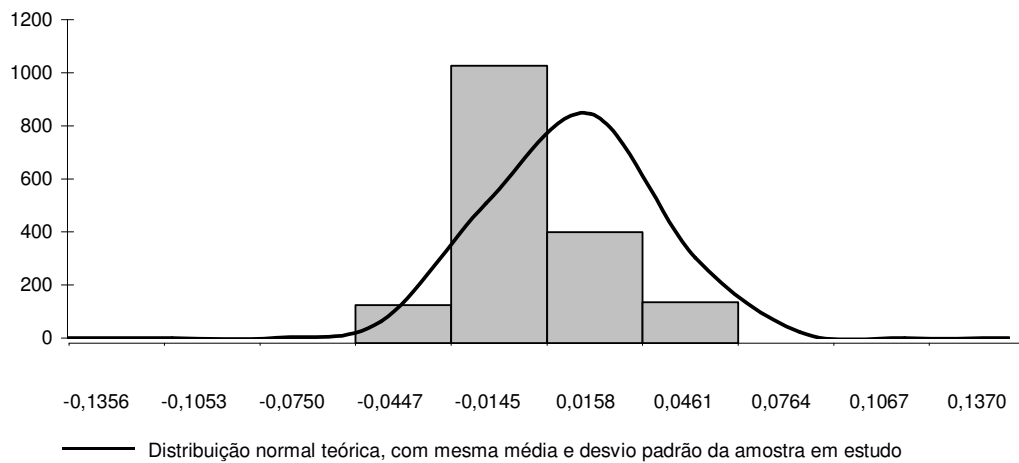
Figura A.32: ln (Retorno) Diário - EMBRAER



**Figura A.33: Histograma - ln (Retorno) Diário - EMBRAER**

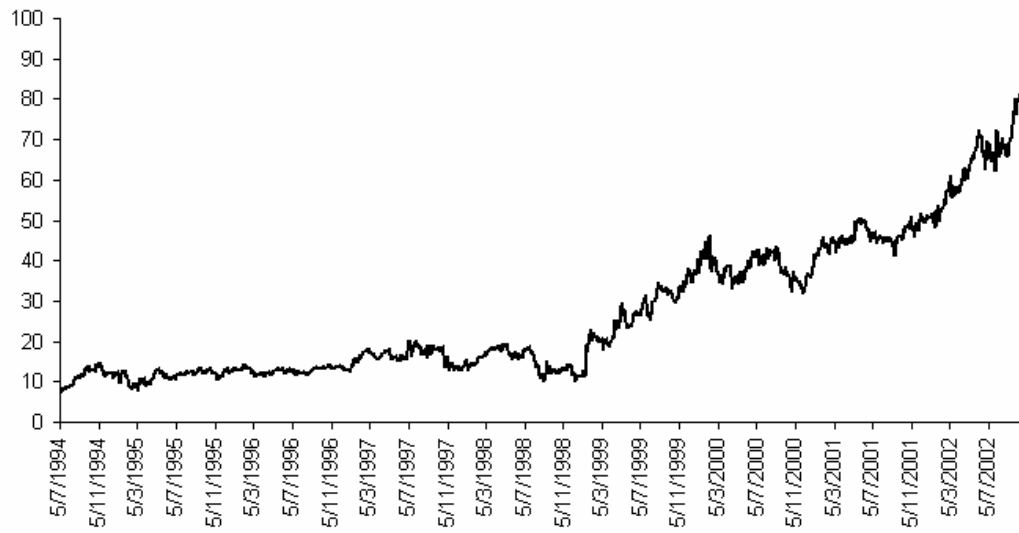


**Figura A.34: Box-Plot - ln (Retorno) Diário - EMBRAER**

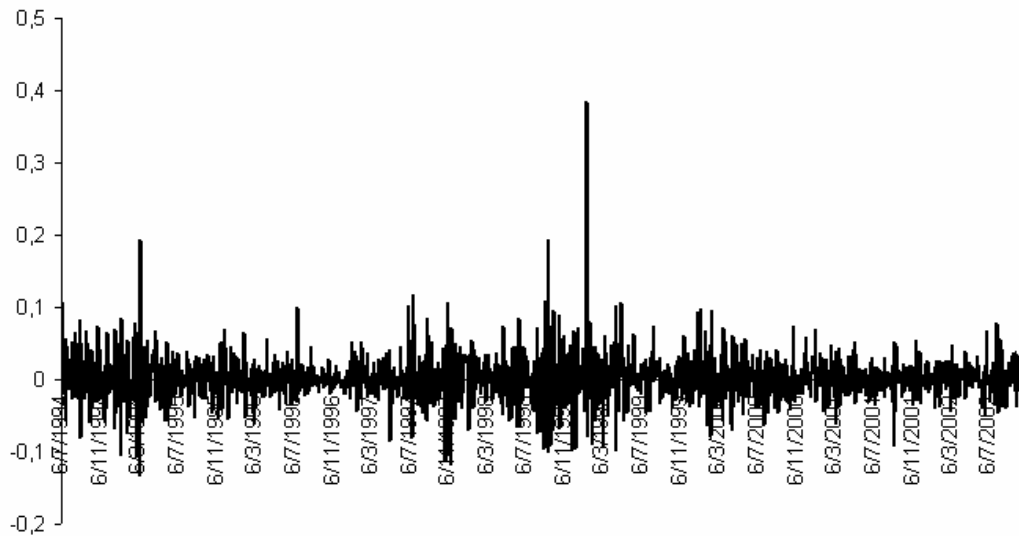


— Distribuição normal teórica, com mesma média e desvio padrão da amostra em estudo

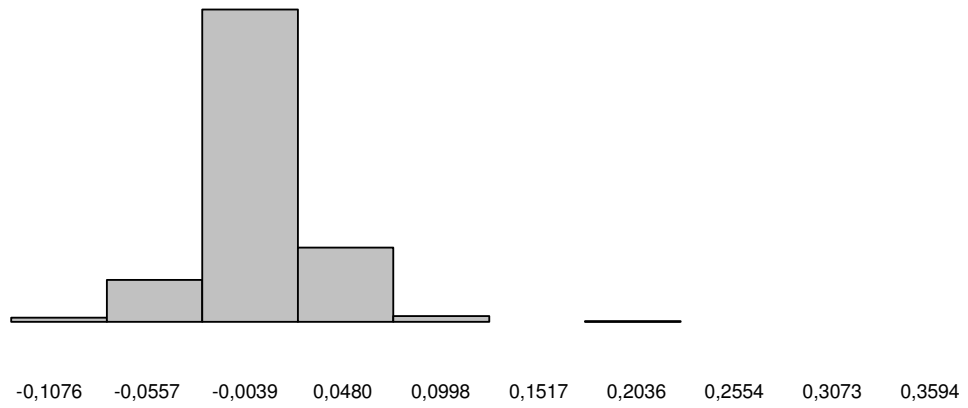
**Figura A.35: Histograma - ln (Retorno) Diário - EMBRAER**  
Excluindo-se outliers



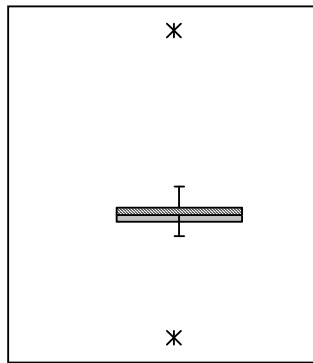
**Figura A.36: Fechamento Diário - VALE R DOCE**  
Cotação Em R\$



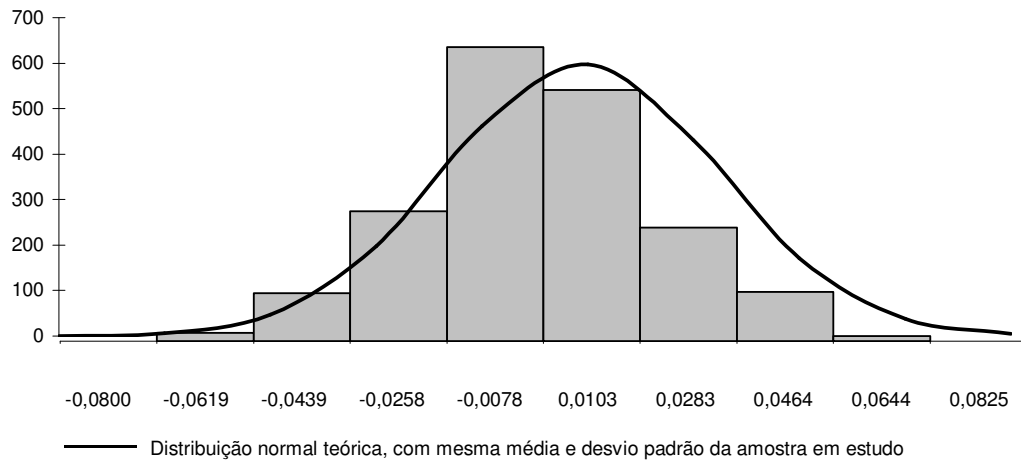
**Figura A.37: ln (Retorno) Diário - VALE R DOCE**



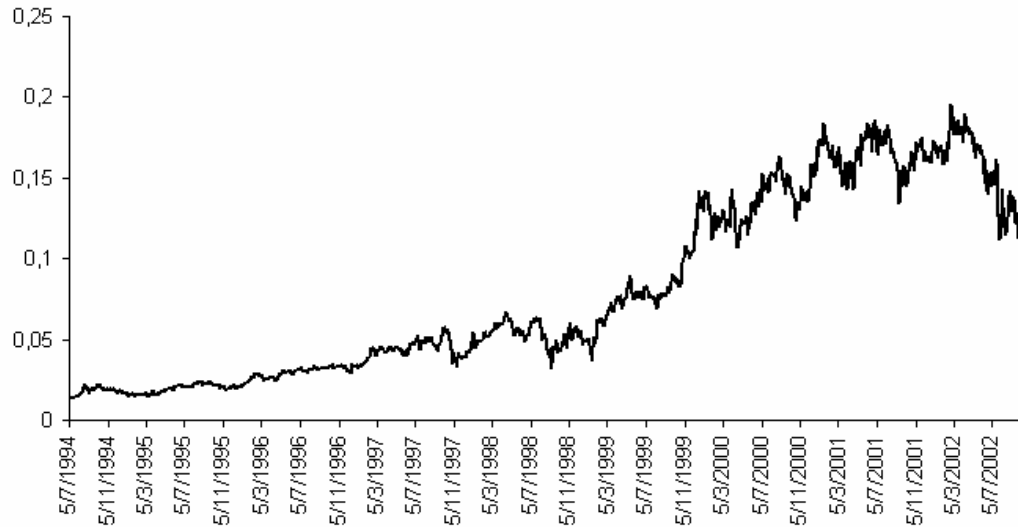
**Figura A.38: Histograma - ln (Retorno) Diário - VALE R DOCE**



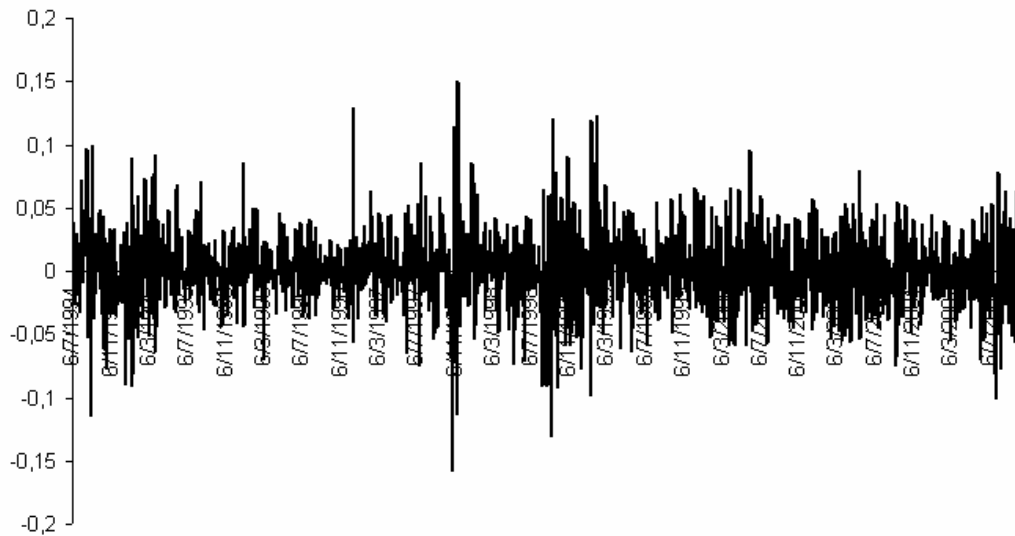
**Figura A.39: Box-Plot - ln (Retorno) Diário - VALE R DOCE**



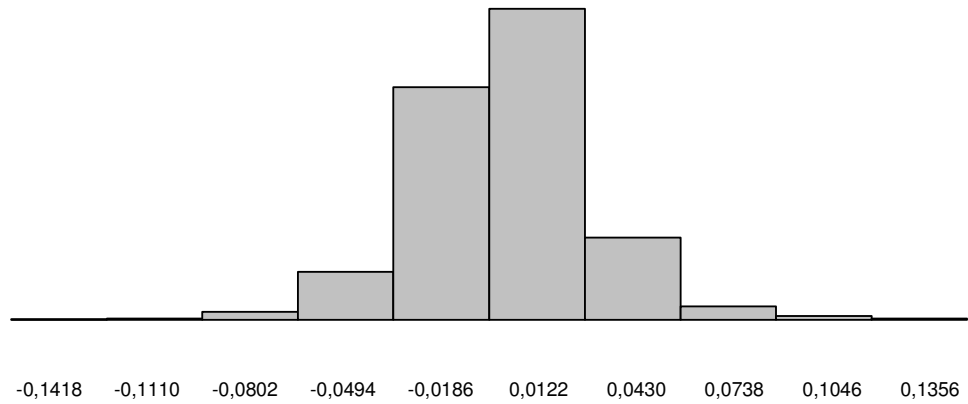
**Figura A.40: Histograma - ln (Retorno) Diário - VALE R DOCE**  
Excluindo-se outliers



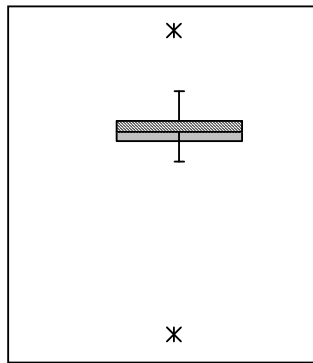
**Figura A.41: Fechamento Diário - ITAUBANCO**  
Cotação Em R\$



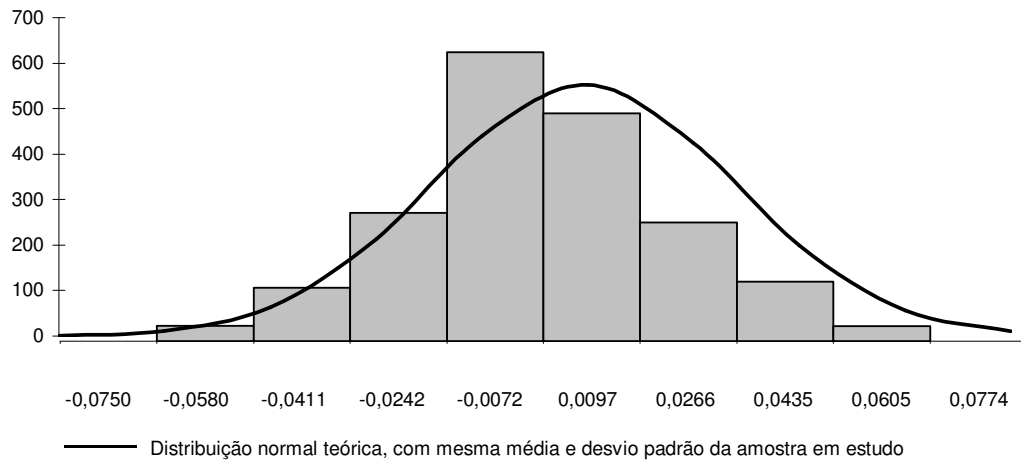
**Figura A.42: ln (Retorno) Diário - ITAUBANCO**



**Figura A.43: Histograma - ln (Retorno) Diário - ITAUBANCO**



**Figura A.44: Box-Plot - ln (Retorno) Diário - ITAUBANCO**

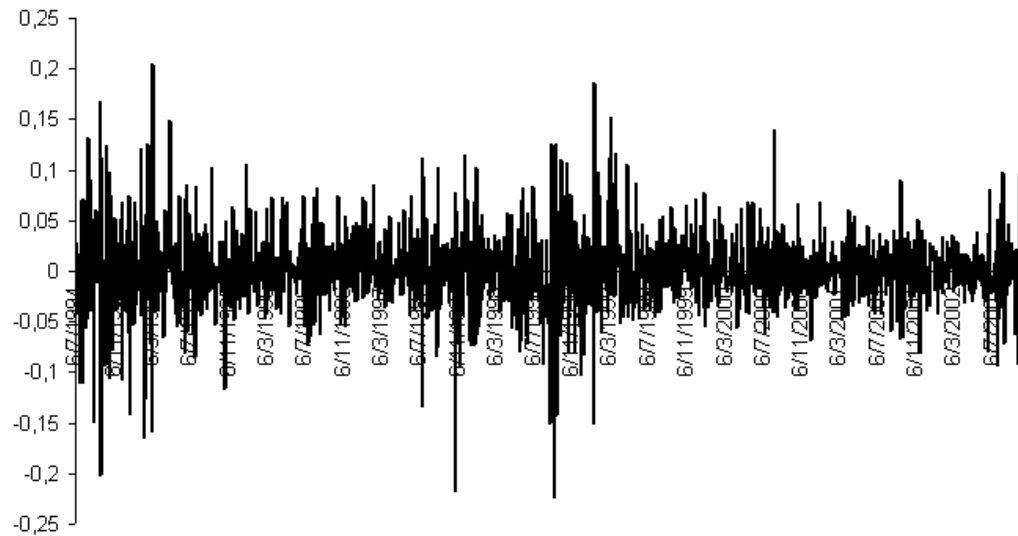


**Figura A.45: Histograma - ln (Retorno) Diário - ITAUBANCO**  
Excluindo-se outliers

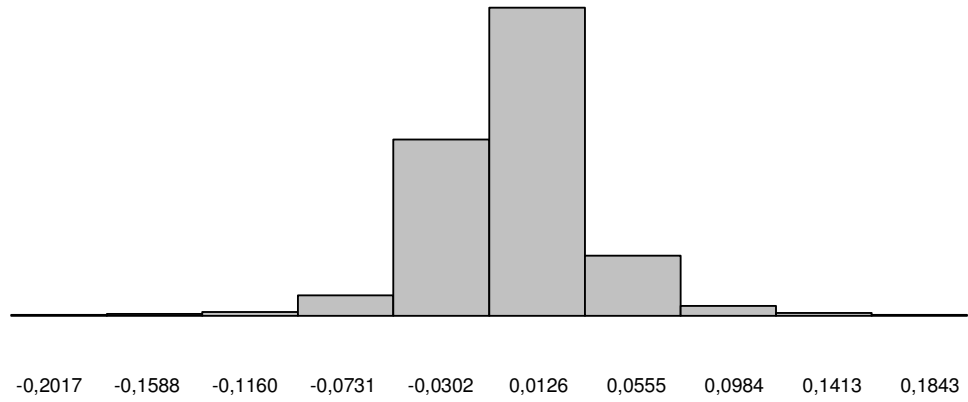




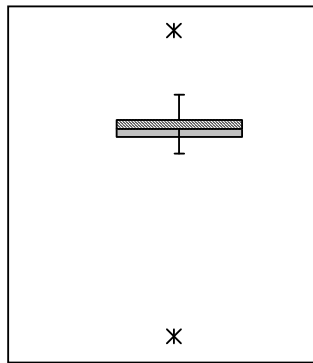
**Figura A.46: Fechamento Diário - PETROBRAS ON**  
Cotação Em R\$



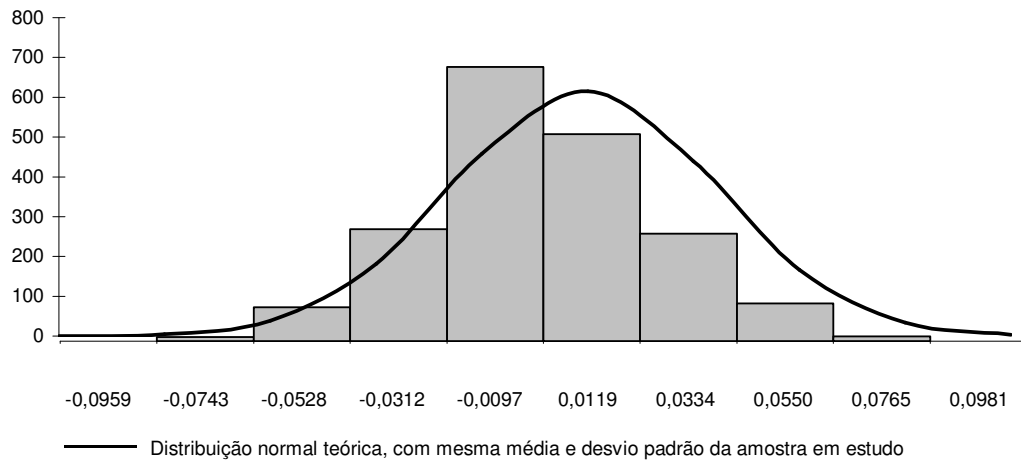
**Figura A.47: ln (Retorno) Diário - PETROBRAS ON**



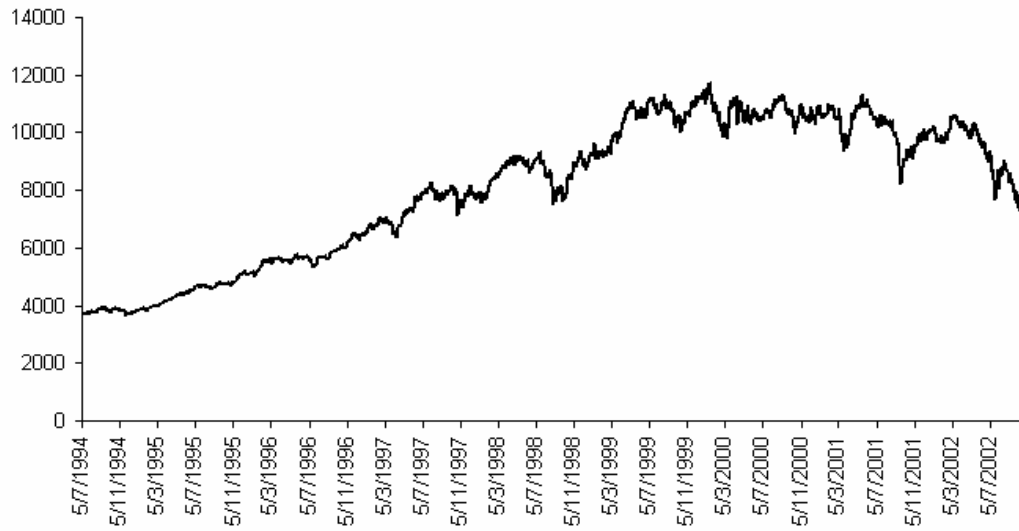
**Figura A.48: Histograma - ln (Retorno) Diário - PETROBRAS ON**



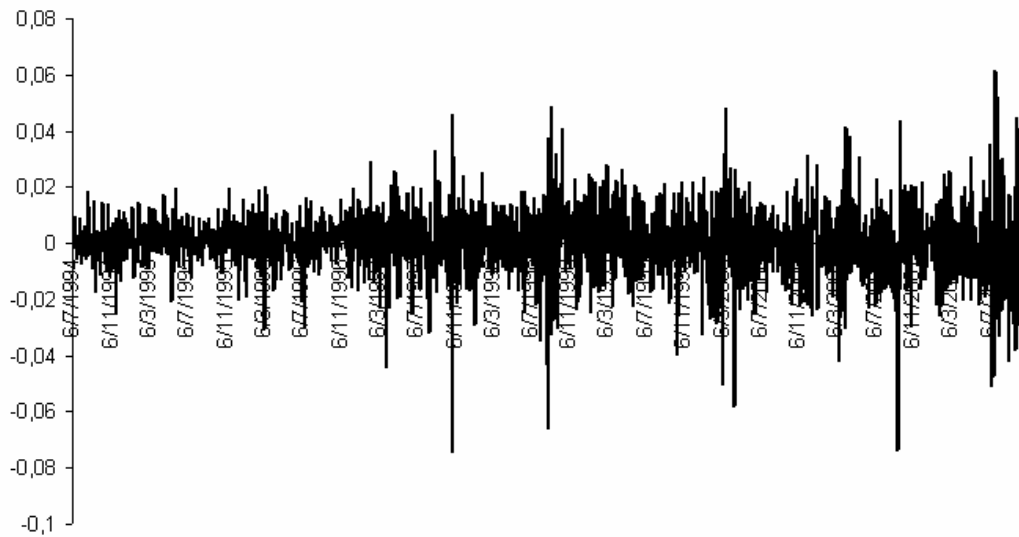
**Figura A.49: Box-Plot - ln (Retorno) Diário - PETROBRAS ON**



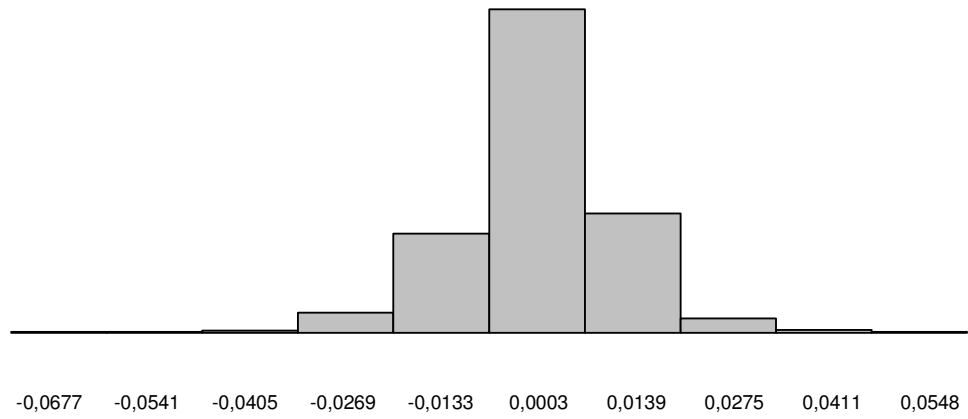
**Figura A.50: Histograma - ln (Retorno) Diário - PETROBRAS ON**  
Excluindo-se outliers



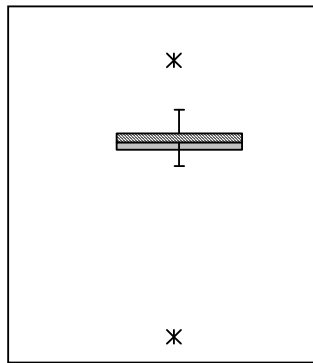
**Figura A.51: Fechamento Diário - DOW JONES**  
Cotação



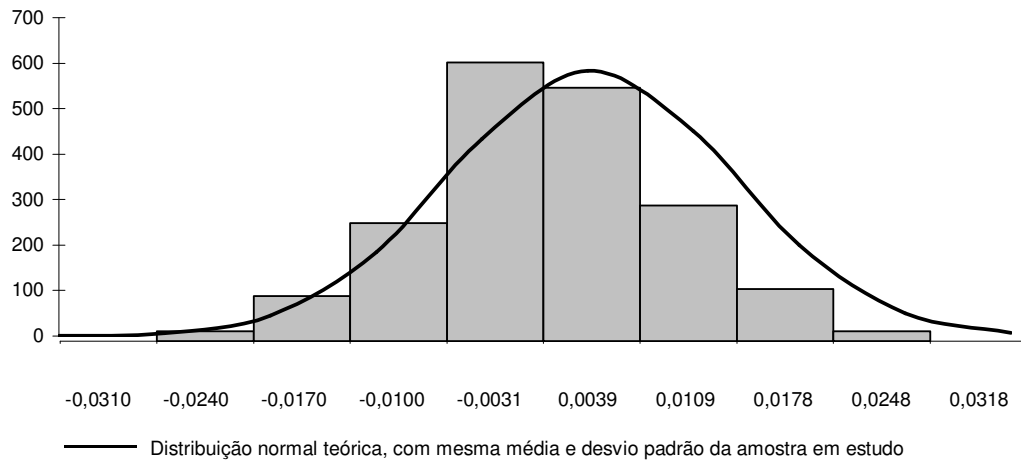
**Figura A.52: ln (Retorno) Diário - DOW JONES**



**Figura A.53: Histograma - ln (Retorno) Diário - DOW JONES**

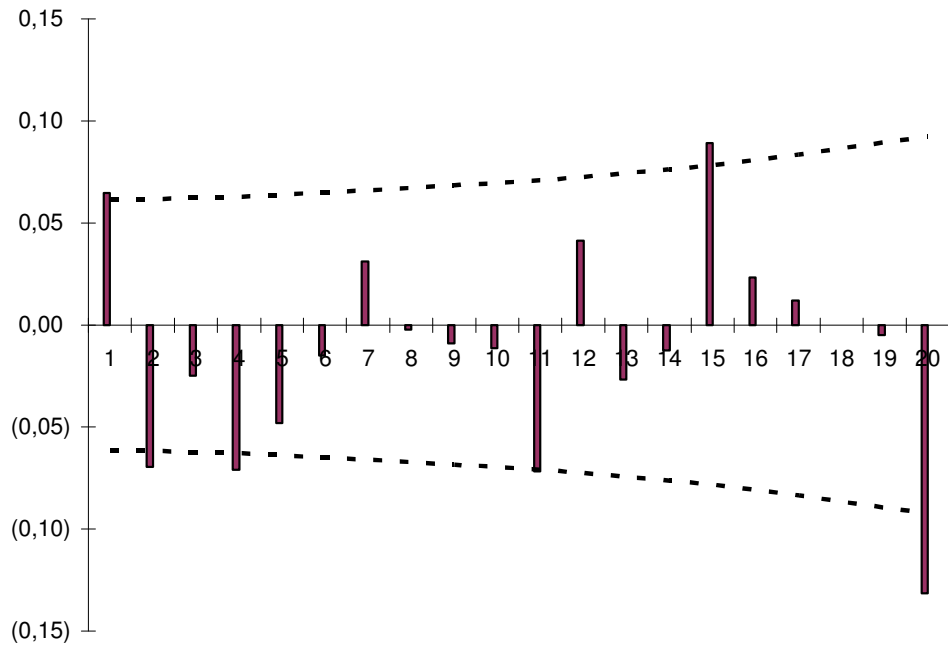


**Figura A.54: Box-Plot - ln (Retorno) Diário - DOW JONES**

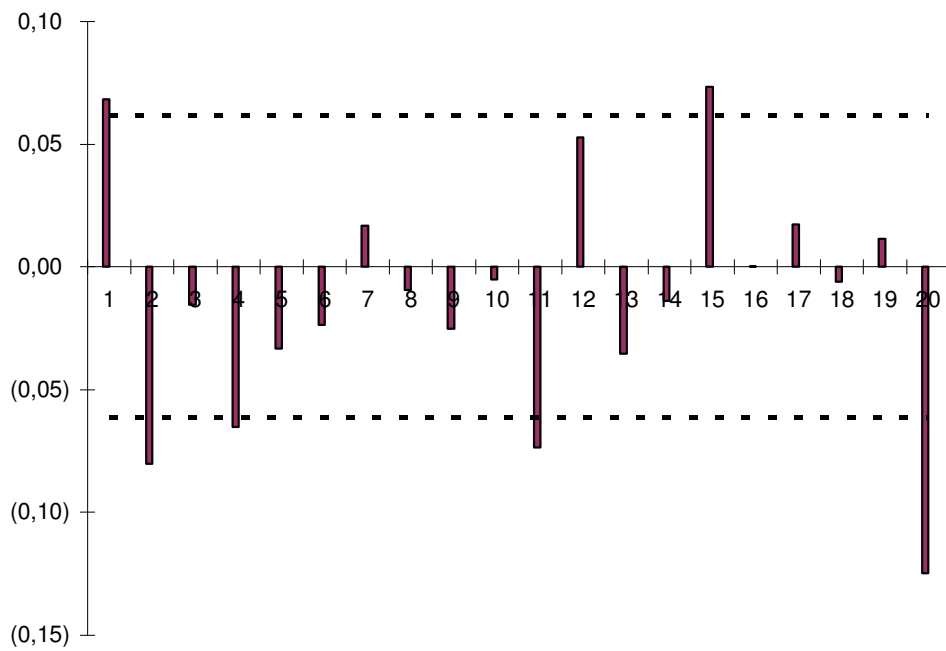


— Distribuição normal teórica, com mesma média e desvio padrão da amostra em estudo

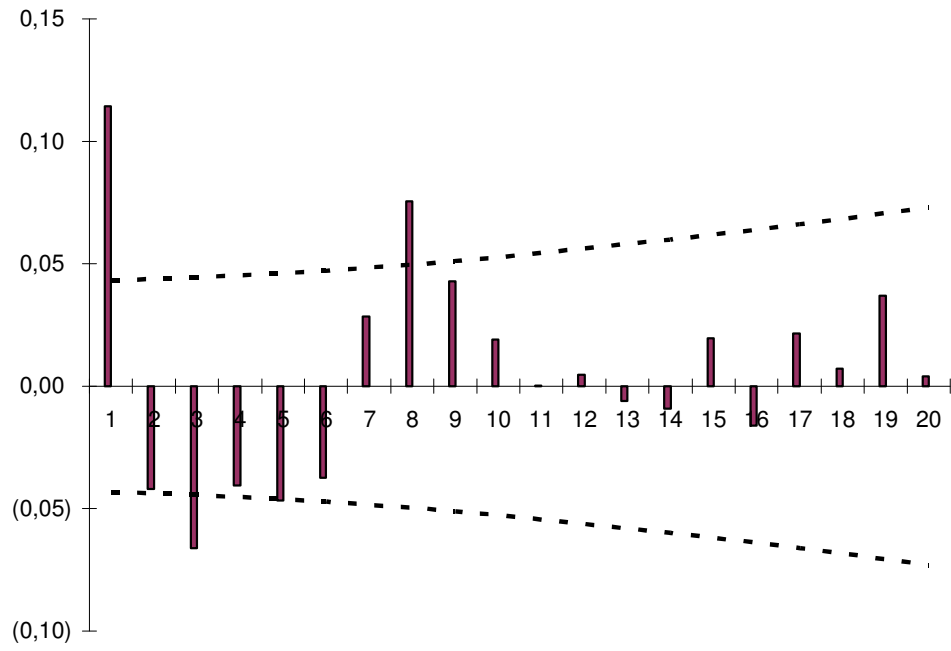
**Figura A.55: Histograma - ln (Retorno) Diário - DOW JONES**  
Excluindo-se outliers



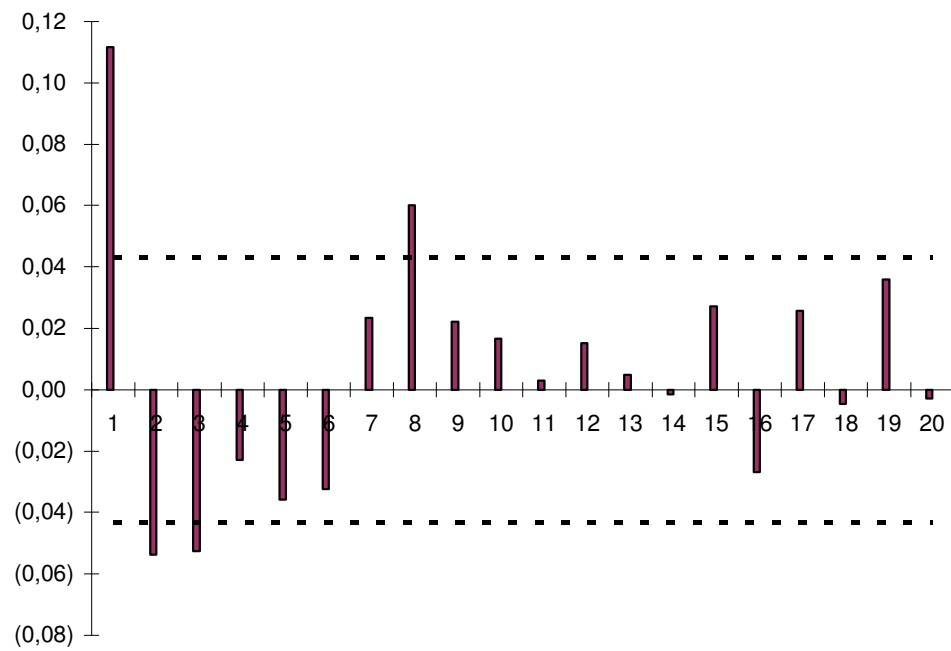
**FIGURA A.56 - ACF - TNLP4**



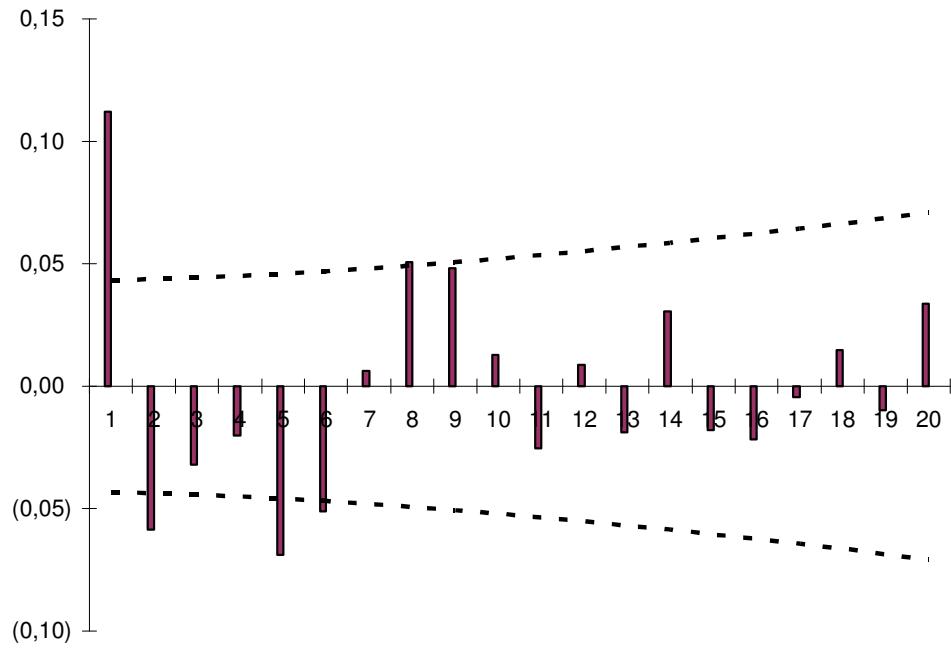
**FIGURA A.57 - PACF - TNLP4**



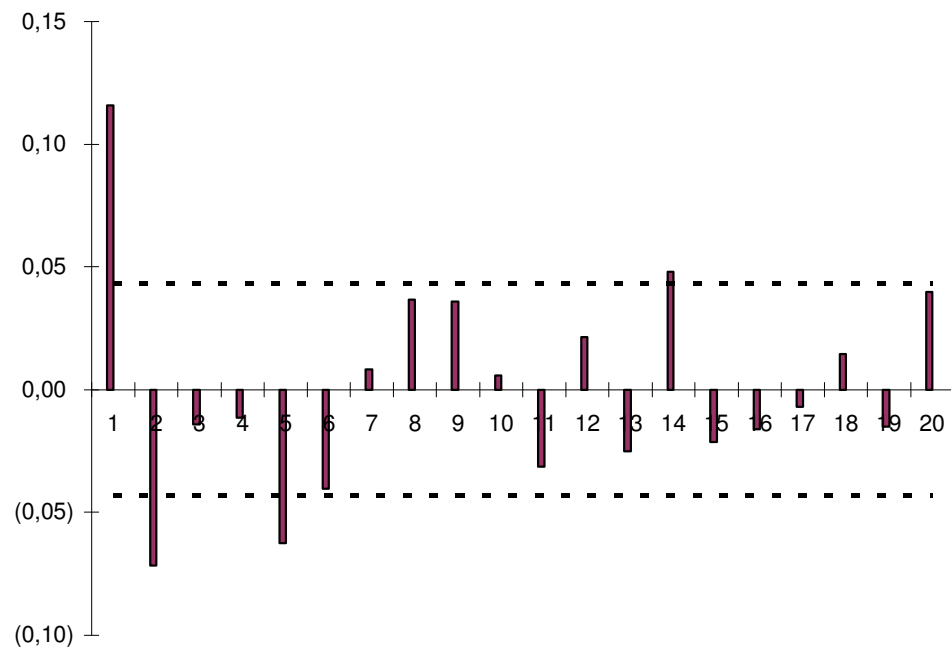
**FIGURA A.58 - ACF - PETR4**



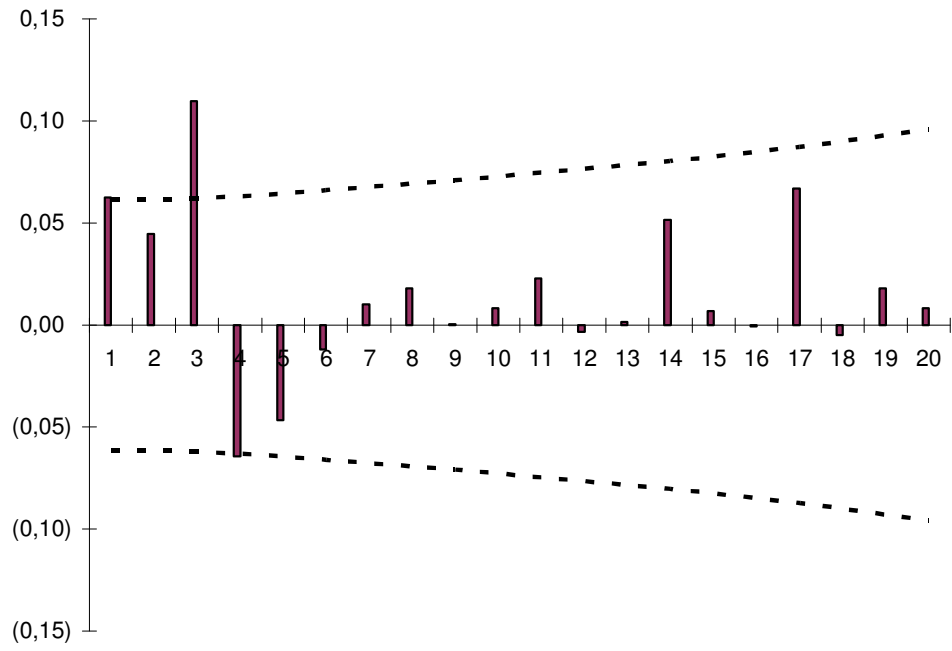
**FIGURA A.59 - PACF - PETR4**



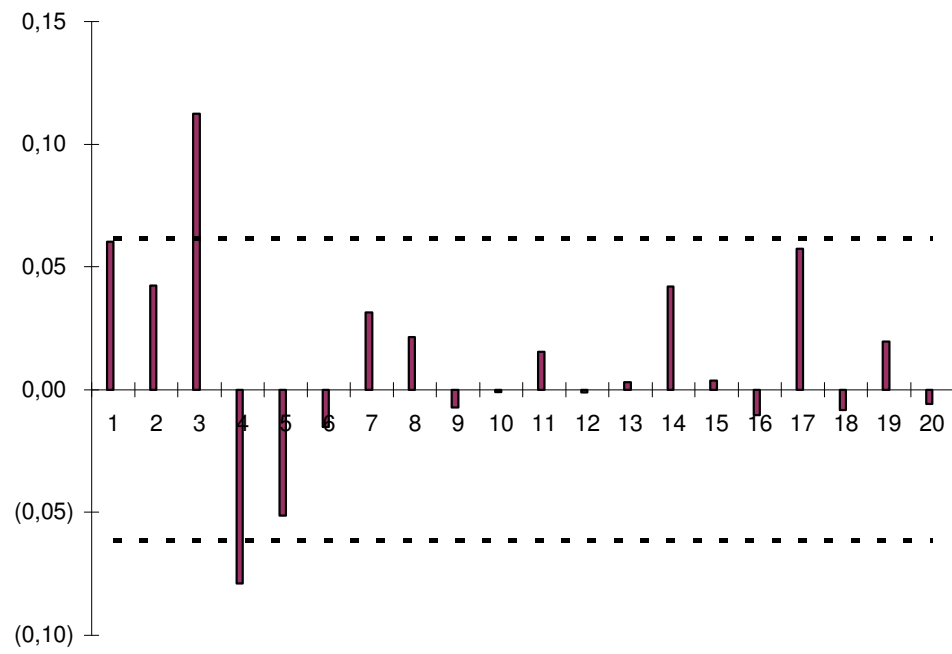
**FIGURA A.60 - ACF - BBDC4**



**FIGURA A.61 - PACF - BBDC4**



**FIGURA A.62 - ACF - TSP4**



**FIGURA A.63 - PACF - TSP4**



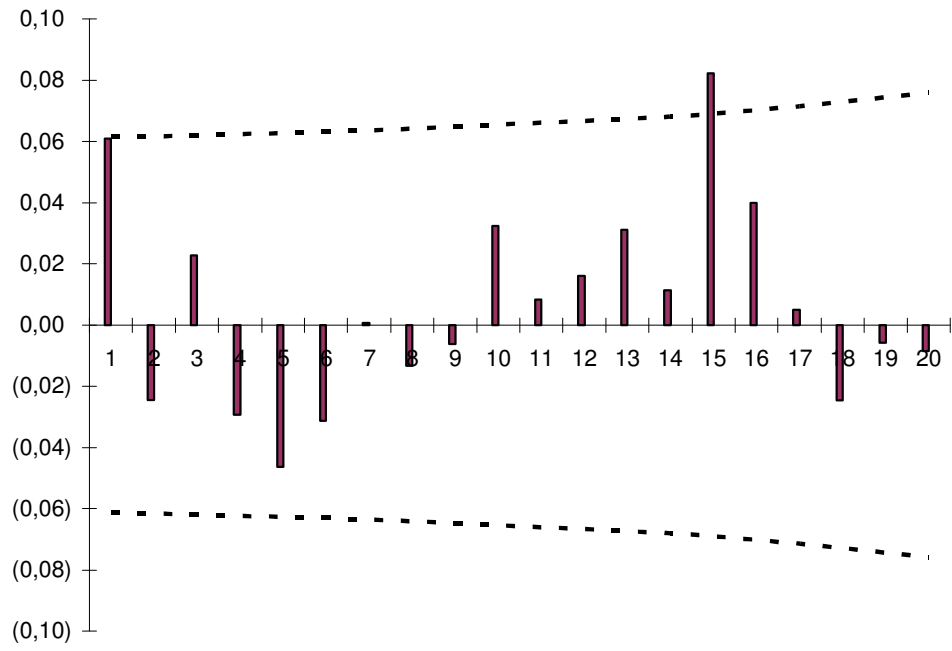


FIGURA A.64 - ACF - EBTP4

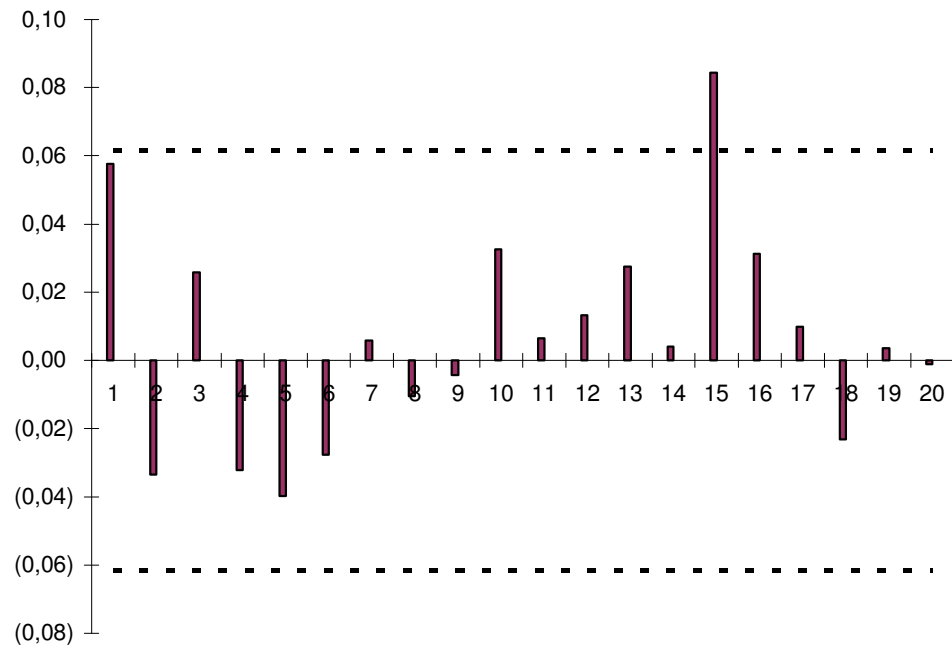
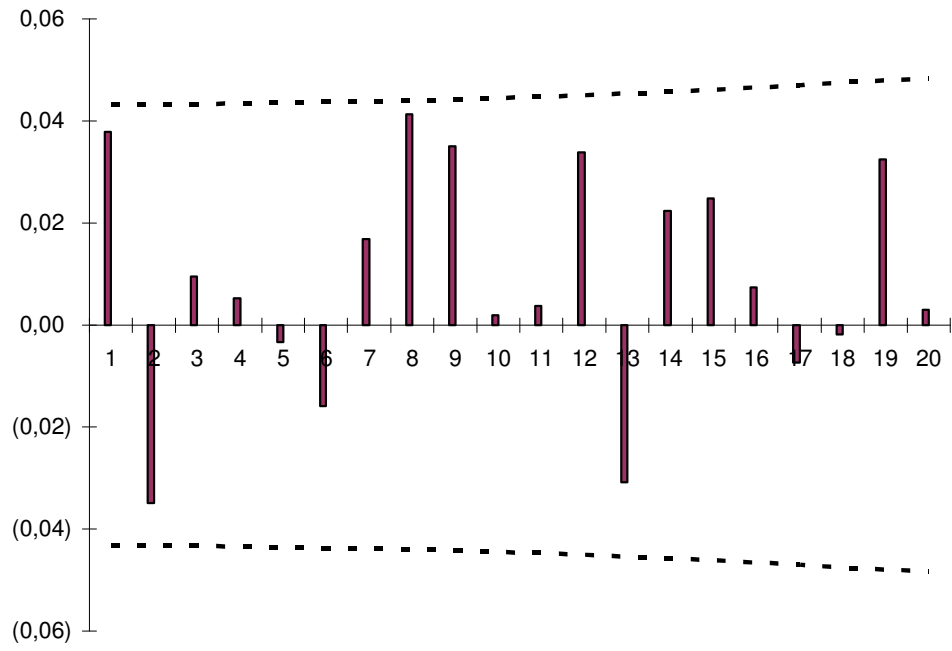
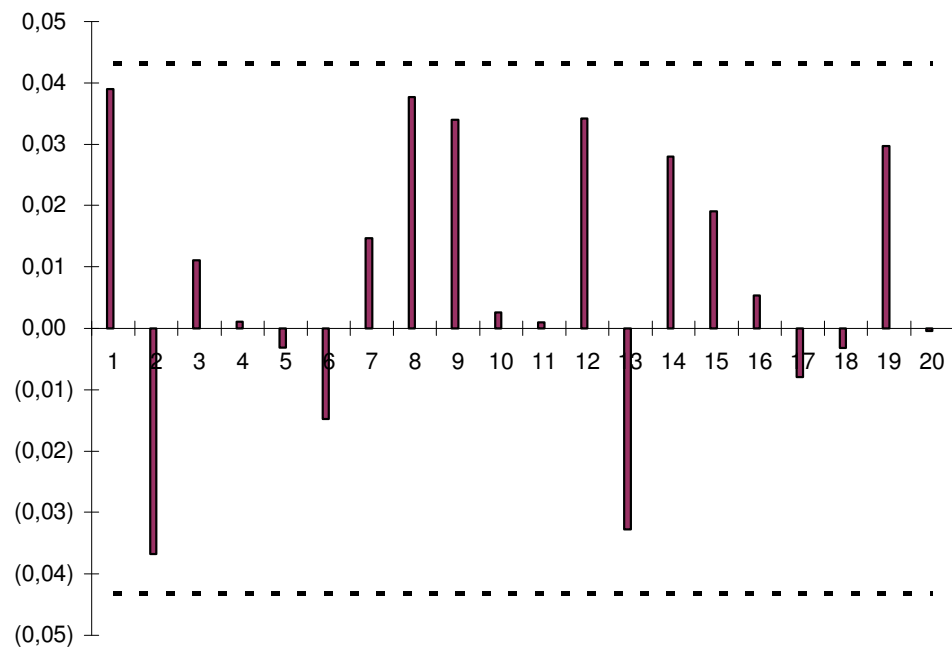


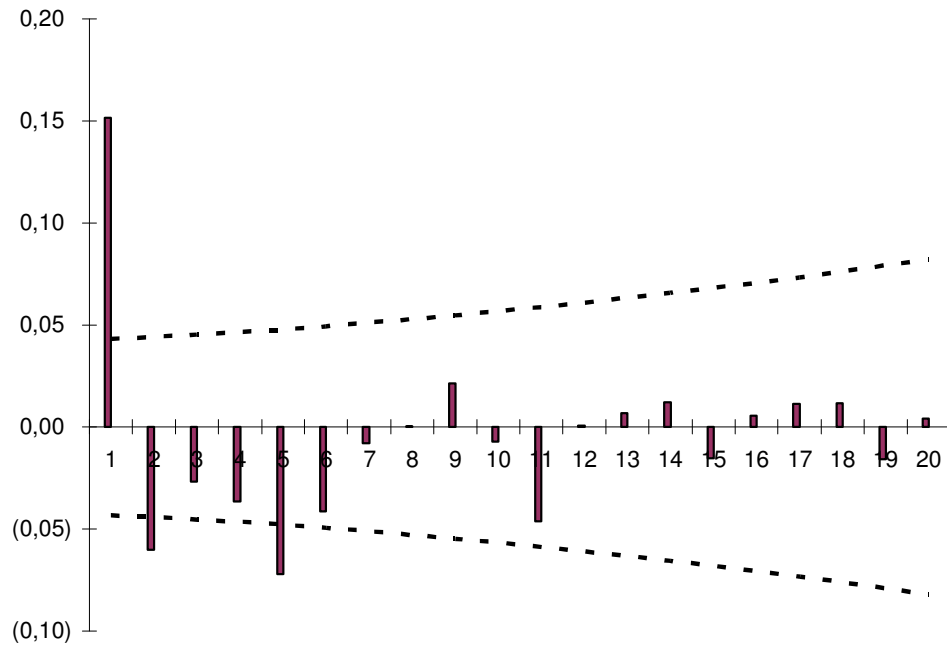
FIGURA A.65 - PACF - EBTP4



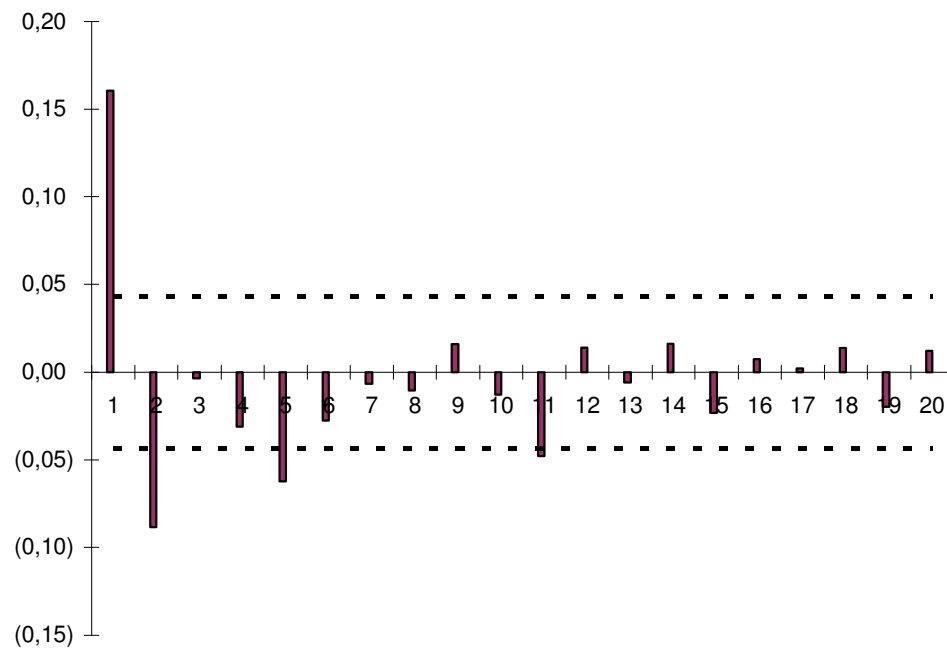
**FIGURA A.66 - ACF - PETR3**



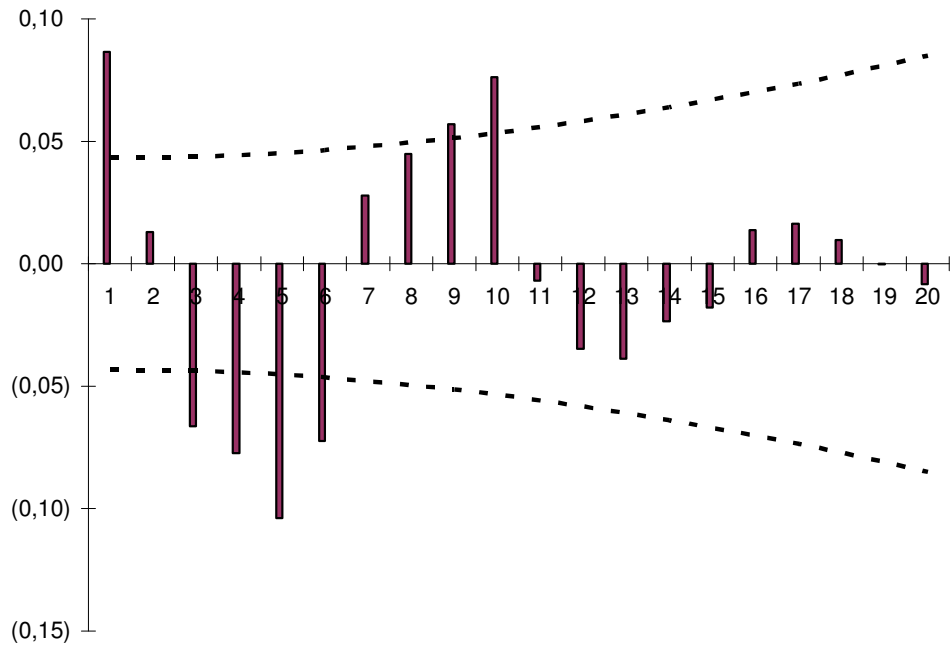
**FIGURA A.67 - PACF - PETR3**



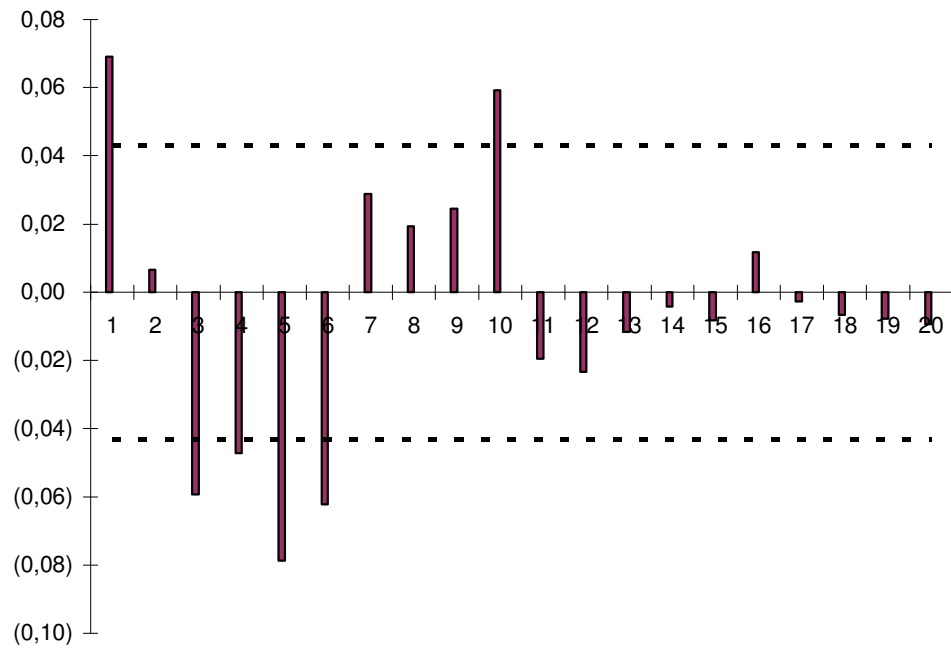
**FIGURA A.68 - ACF - ITAU4**



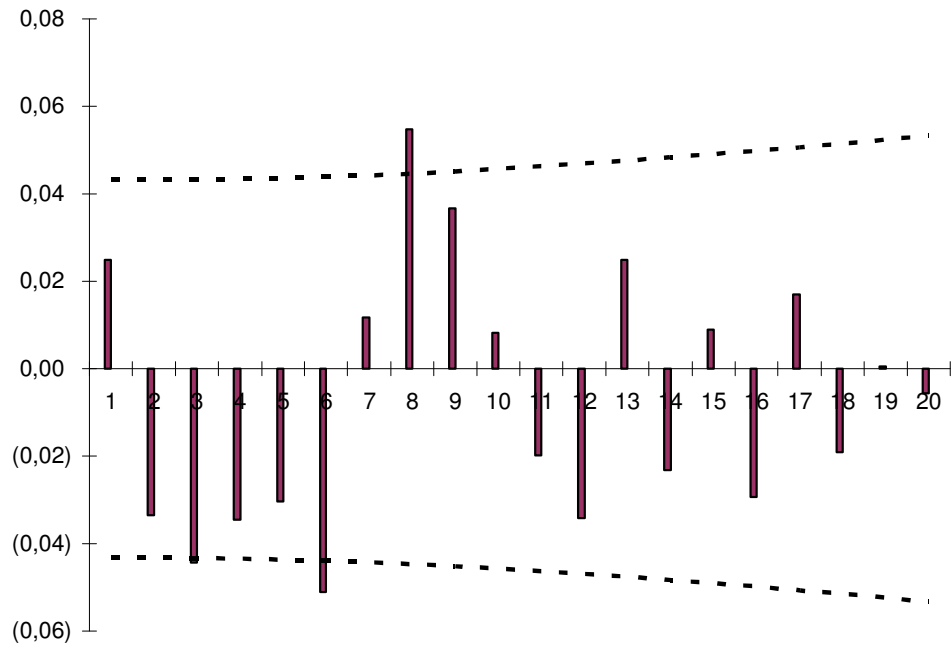
**FIGURA A.69 - PACF - ITAU4**



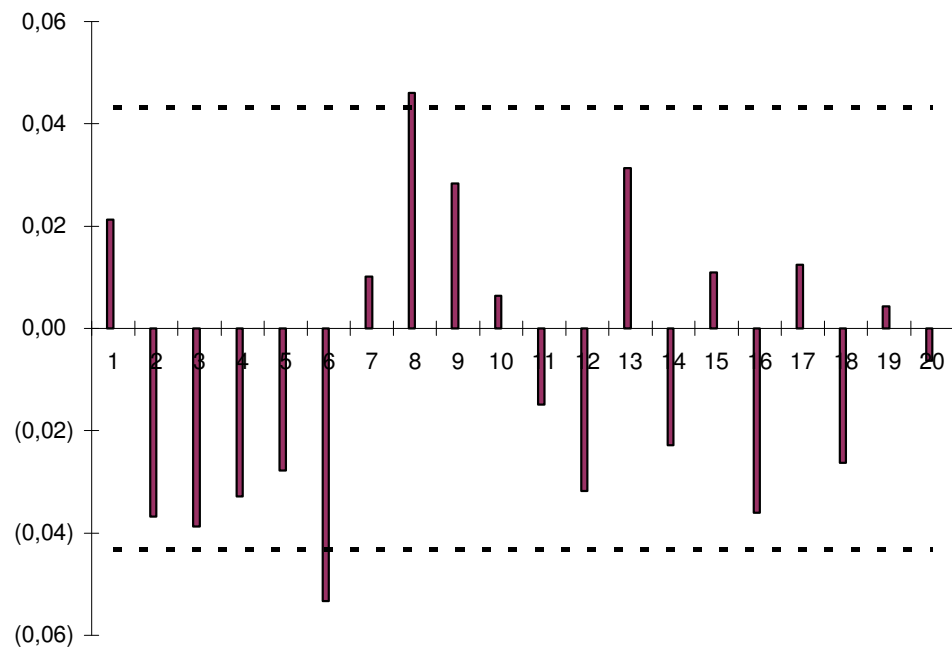
**FIGURA A.70 - ACF - ELET6**



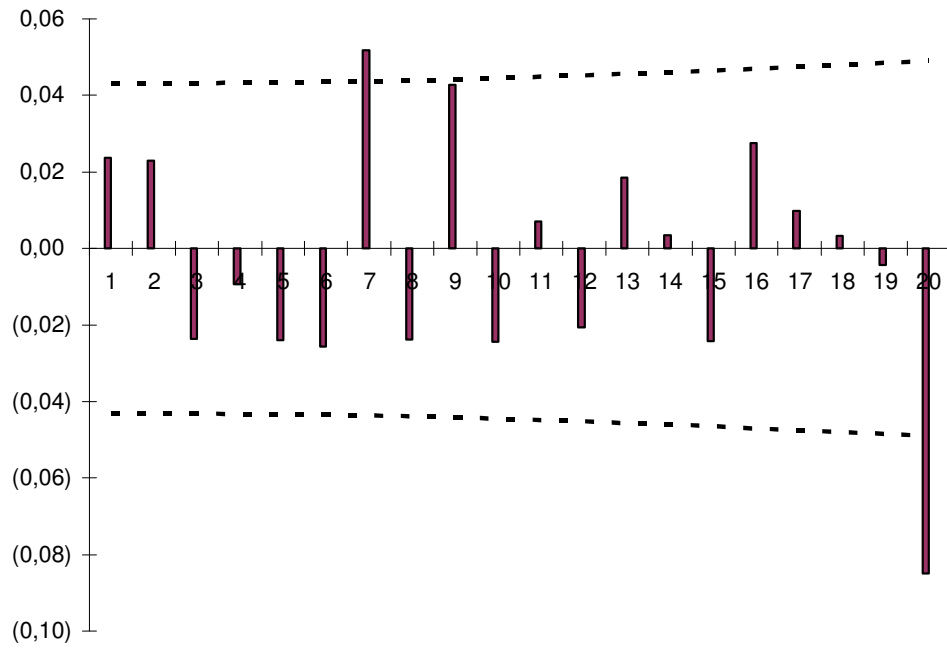
**FIGURA A.71 - PACF - ELET6**



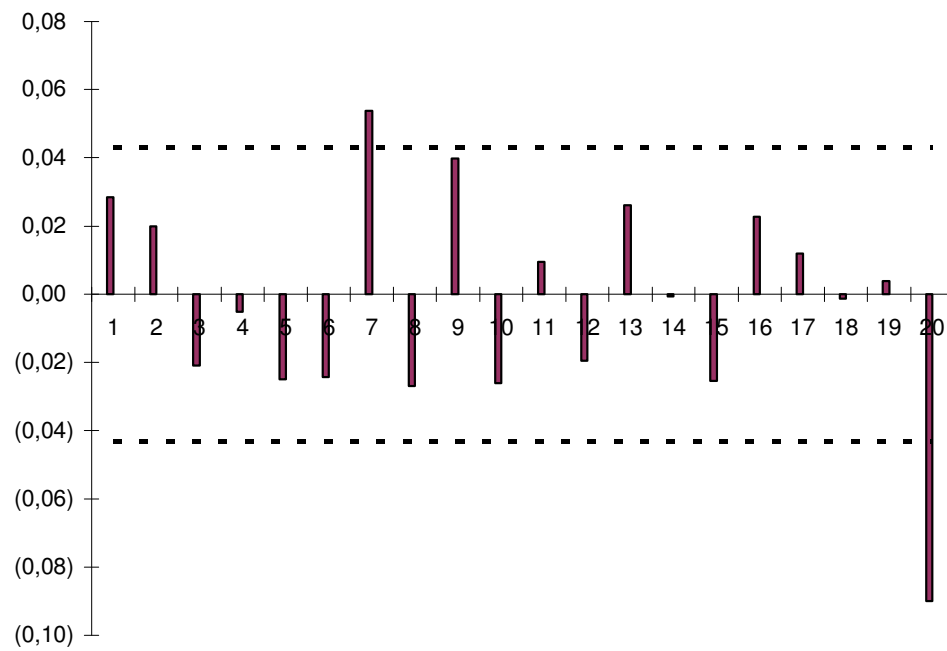
**FIGURA A.72 - ACF - VALE5**



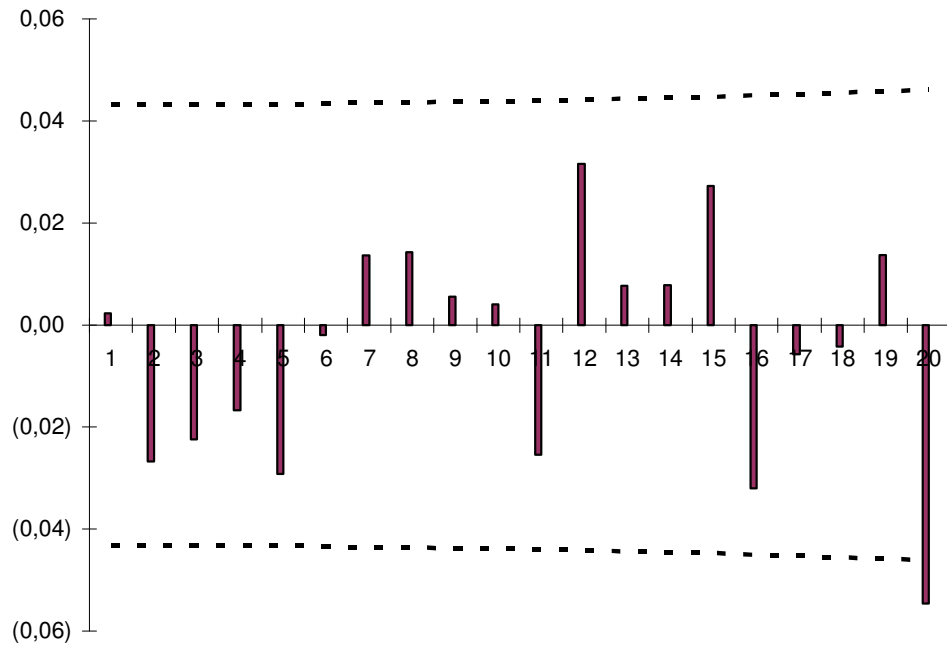
**FIGURA A.73 - PACF - VALE5**



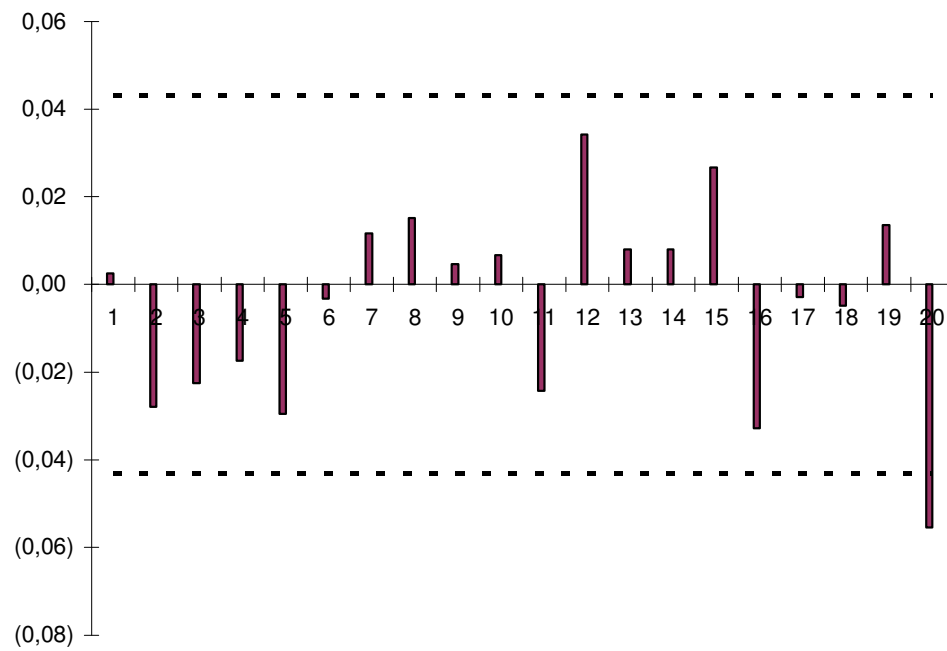
**FIGURA A.74 - ACF - EMBR4**



**FIGURA A.75 - PACF - EMBR4**



**FIGURA A.76 - ACF - DJONES**



**FIGURA A.77 - PACF - DJONES**

TABELA A.1: LIMITES DE CONTROLE

GRÁFICO	LIC	LC	LSC
<b>TNLP4</b>			
X	-10,1317	-0,0014	10,1289
mR	-	3,8084	12,4458
<b>PETR4</b>			
X	-8,3997	-0,0005	8,3988
mR	-	3,1576	10,3191
<b>BBDC4</b>			
X	-7,8226	0,0000	7,8226
mR	-	2,9408	9,6106
<b>TSP4</b>			
X	-11,8978	-0,0016	11,8946
mR	-	4,4722	14,6153
<b>EBTP4</b>			
X	-12,8990	0,0023	12,9036
mR	-	4,8501	15,8502
<b>PETR3</b>			
X	-9,2734	-0,0009	9,2716
mR	-	3,4859	11,3919
<b>ITAU4</b>			
X	-7,6952	-0,0010	7,6932
mR	-	2,8926	9,4529
<b>ELET6</b>			
X	-10,0206	0,0005	10,0216
mR	-	3,7673	12,3116
<b>VALE5</b>			
X	-7,6959	0,0003	7,6965
mR	-	2,8933	9,4553
<b>EMBR4</b>			
X	-11,0186	0,0009	11,0204
mR	-	4,1427	13,5383
<b>DJONES</b>			
X	-3,1383	0,0002	3,1386
mR	-	1,1799	3,8558



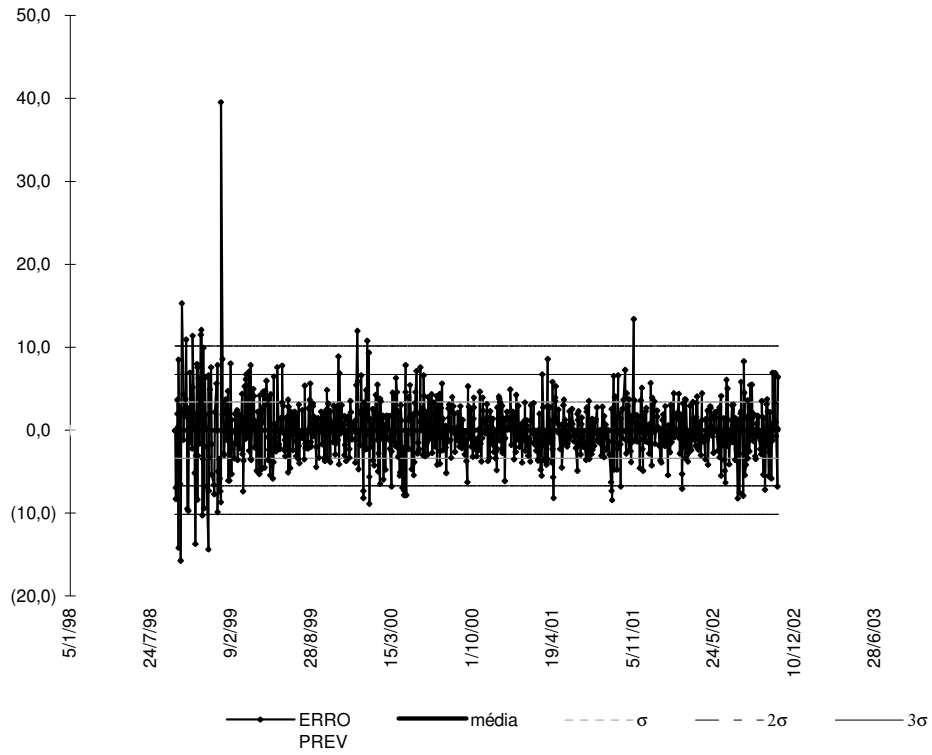


Figura A.78 - Gráfico de Controle de X - In (Retorno Diário) - TNLP4

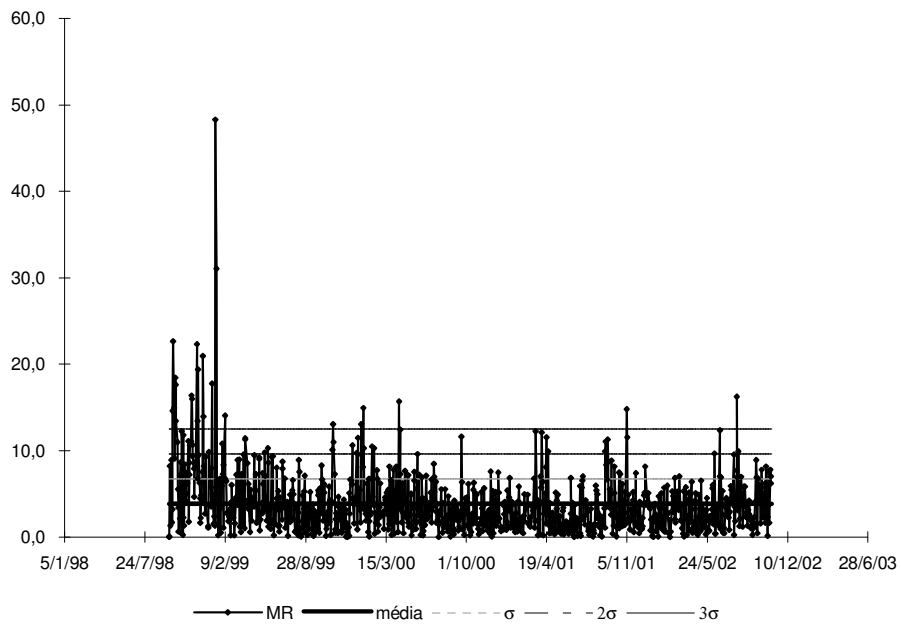
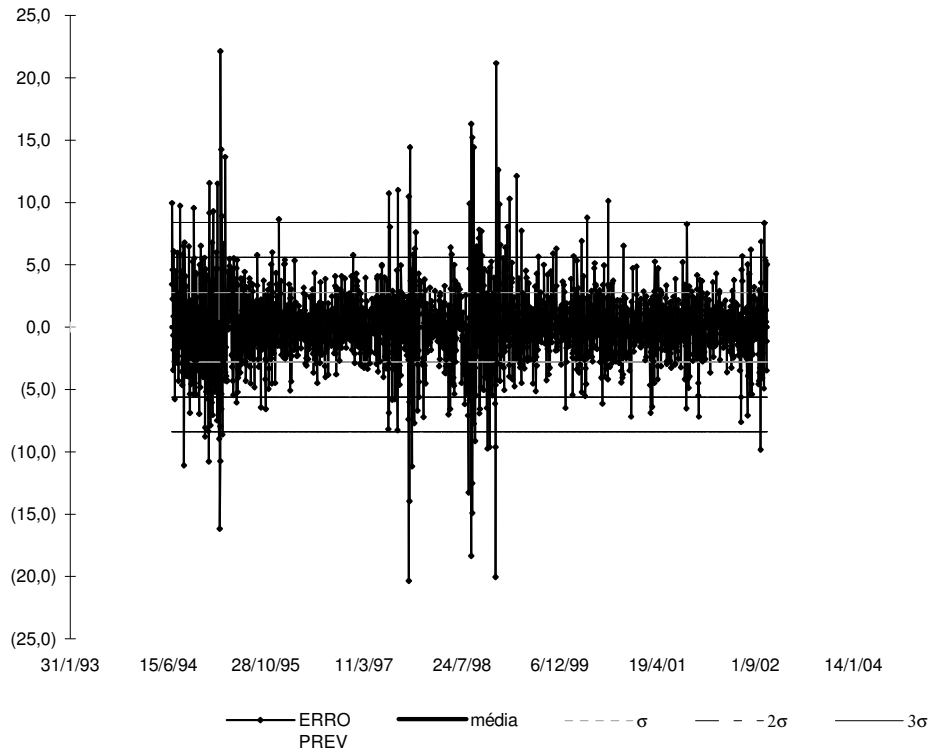
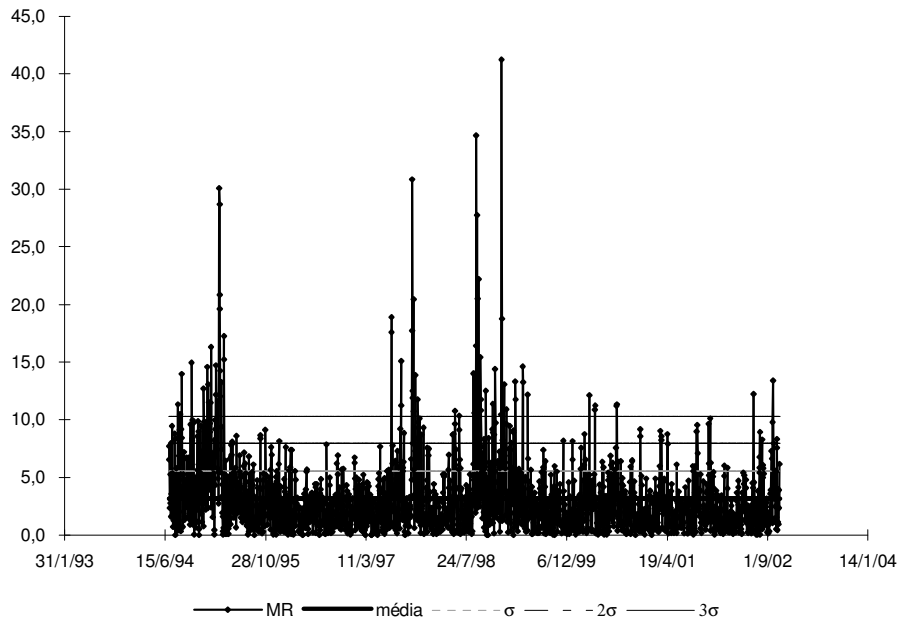


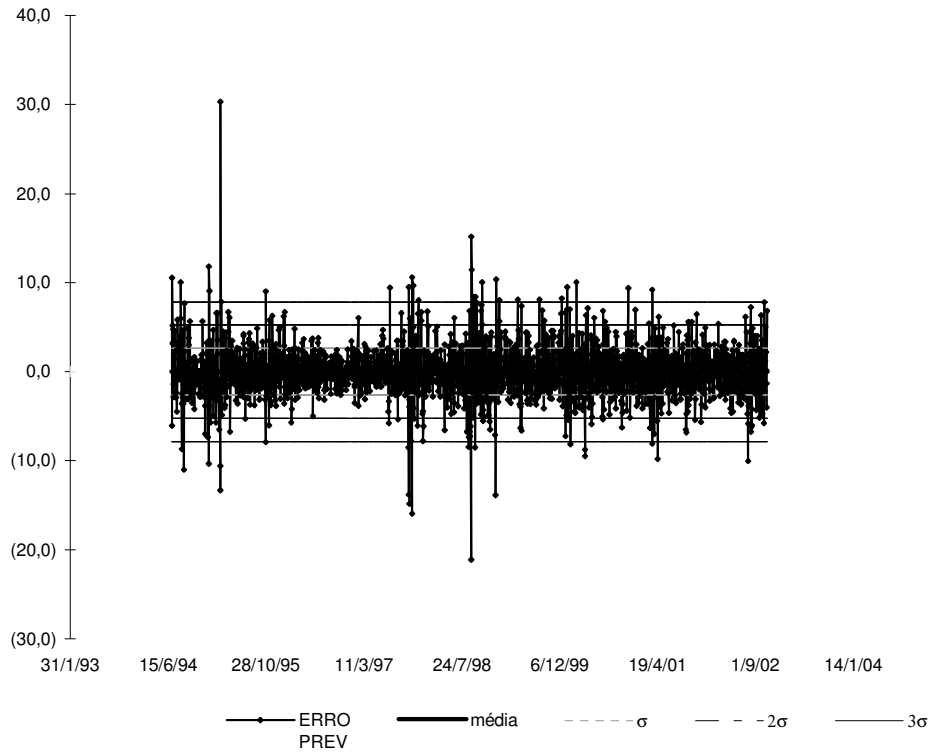
Figura A.79 - Gráfico de Controle de mR - In (Retorno Diário) - TNLP4



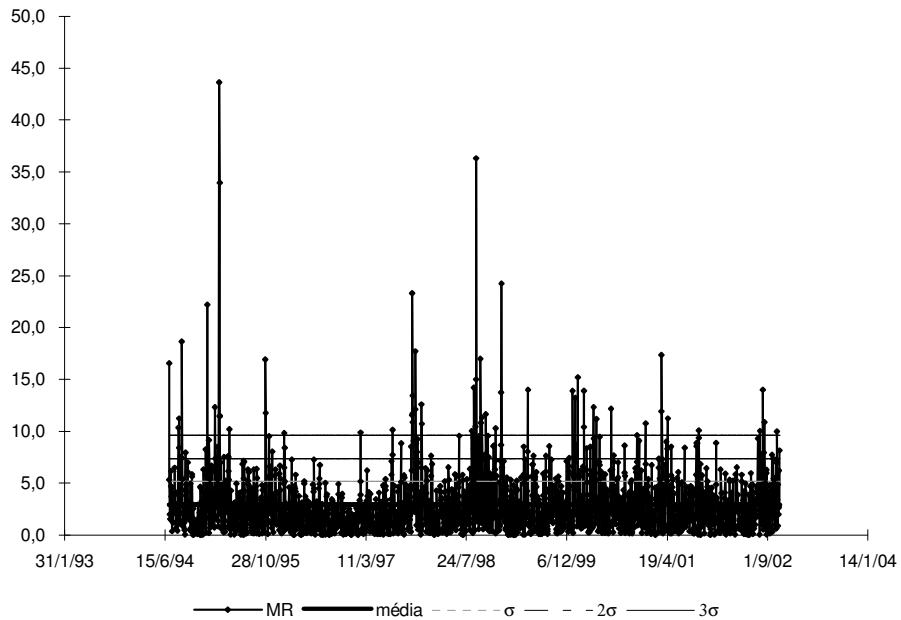
**Figura A.80 - Gráfico de Controle de X - In (Retorno Diário) - PETR4**



**Figura A.81 - Gráfico de Controle de mR - In (Retorno Diário) - PETR4**



**Figura A.82 - Gráfico de Controle de X - ln (Retorno Diário) - BBDC4**



**Figura A.83 - Gráfico de Controle de mR - ln (Retorno Diário) - BBDC4**

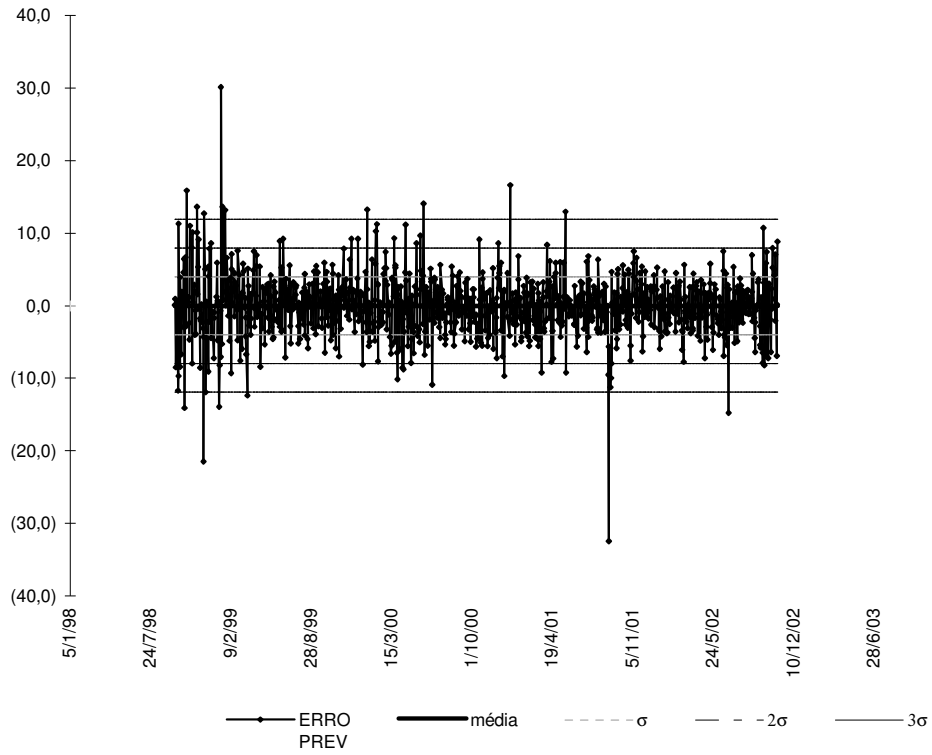


Figura A.84 - Gráfico de Controle de X - In (Retorno Diário) - TSPP4

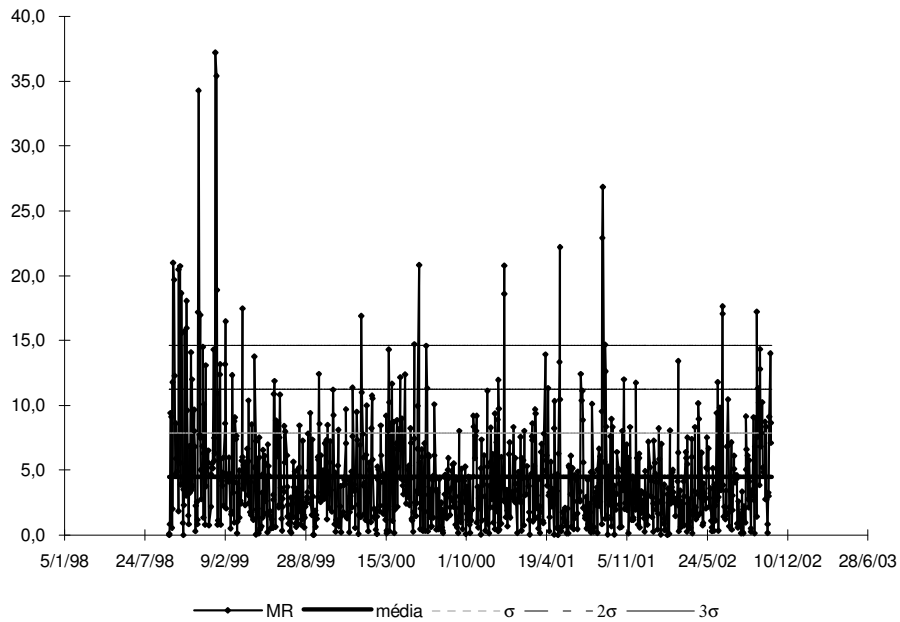


Figura A.85 - Gráfico de Controle de mR - In (Retorno Diário) - TSPP4

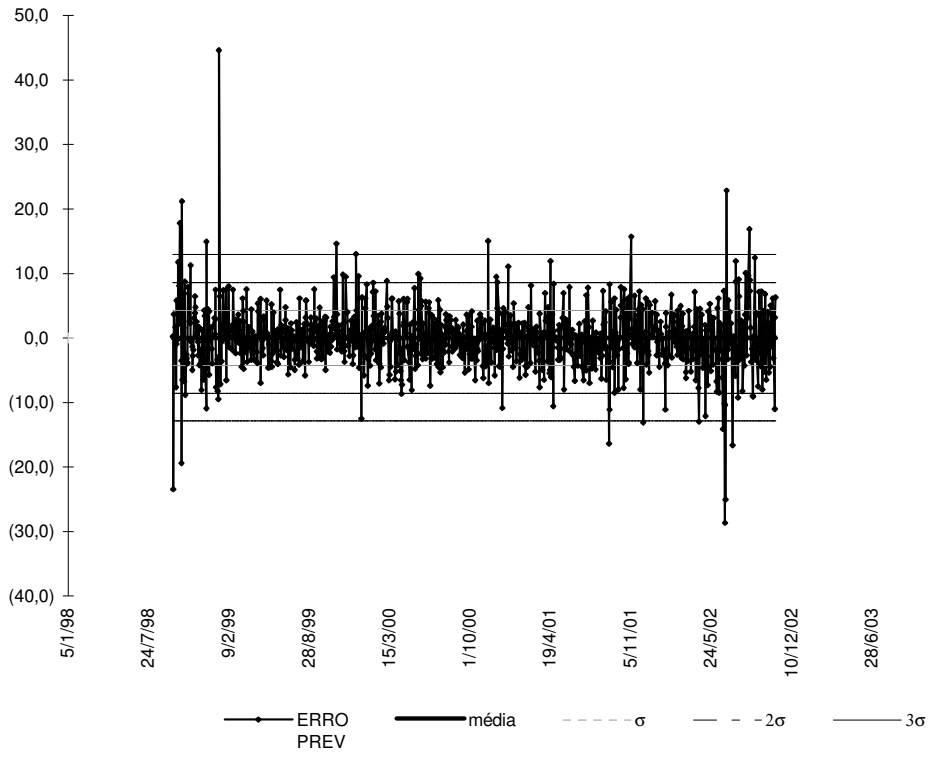


Figura A.86 - Gráfico de Controle de X - ln (Retorno Diário) - EBTP4

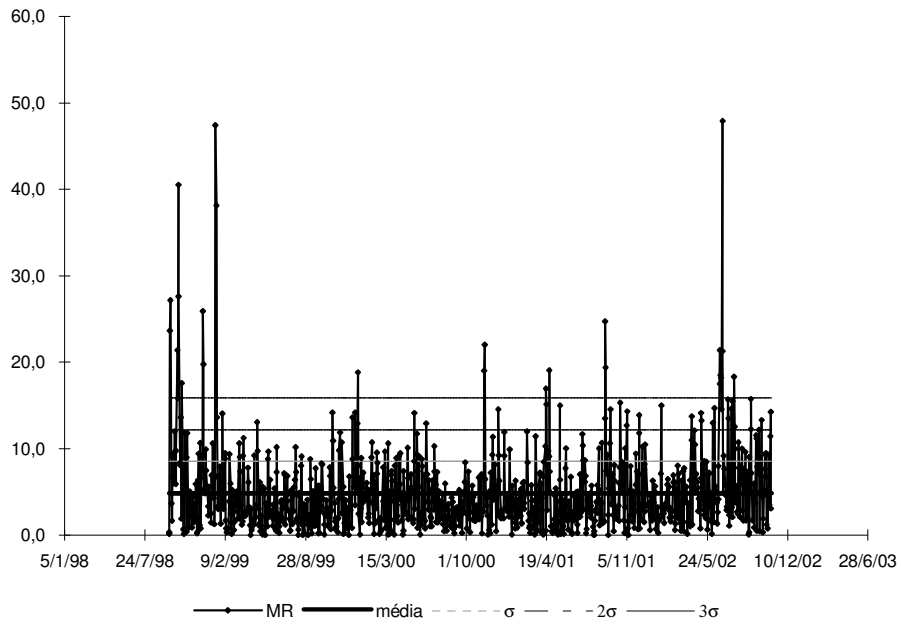


Figura A.87 - Gráfico de Controle de mR - ln (Retorno Diário) - EBTP4

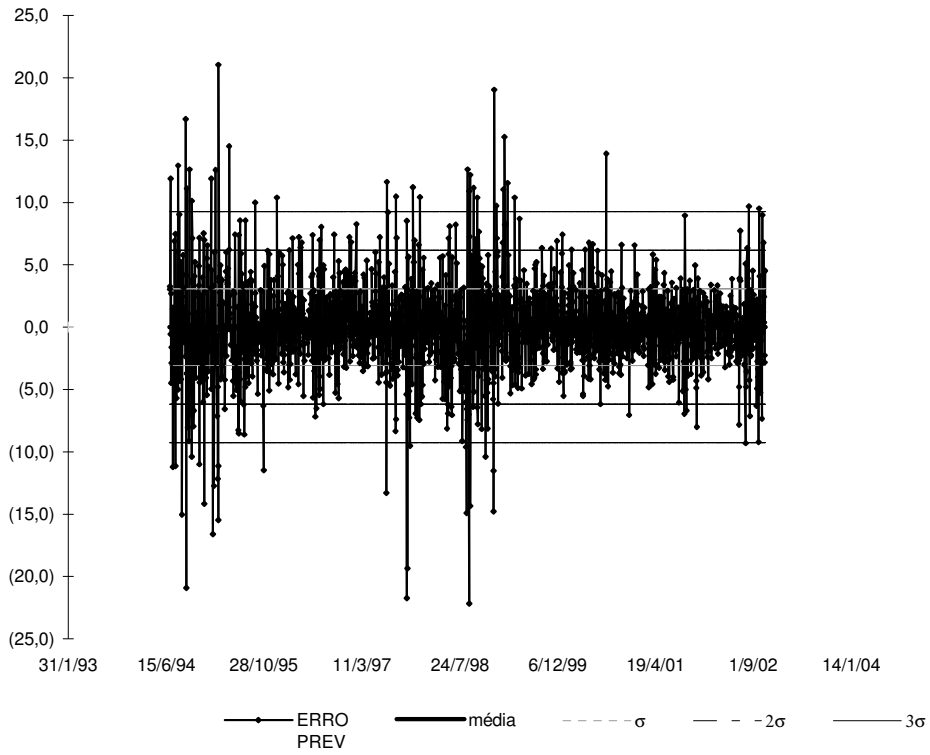


Figura A.88 - Gráfico de Controle de X - ln (Retorno Diário) - PETR3

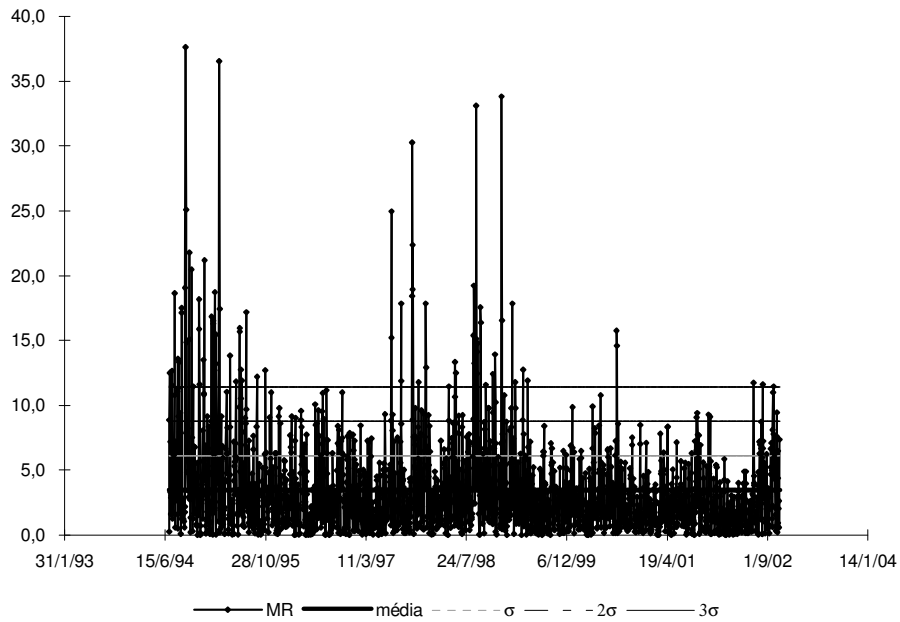
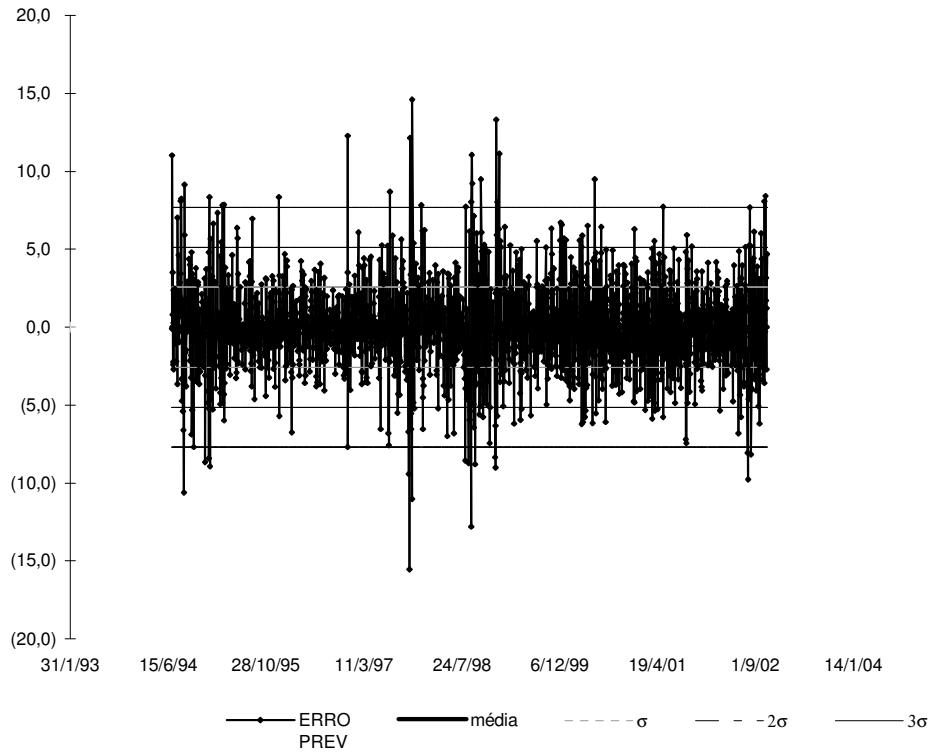
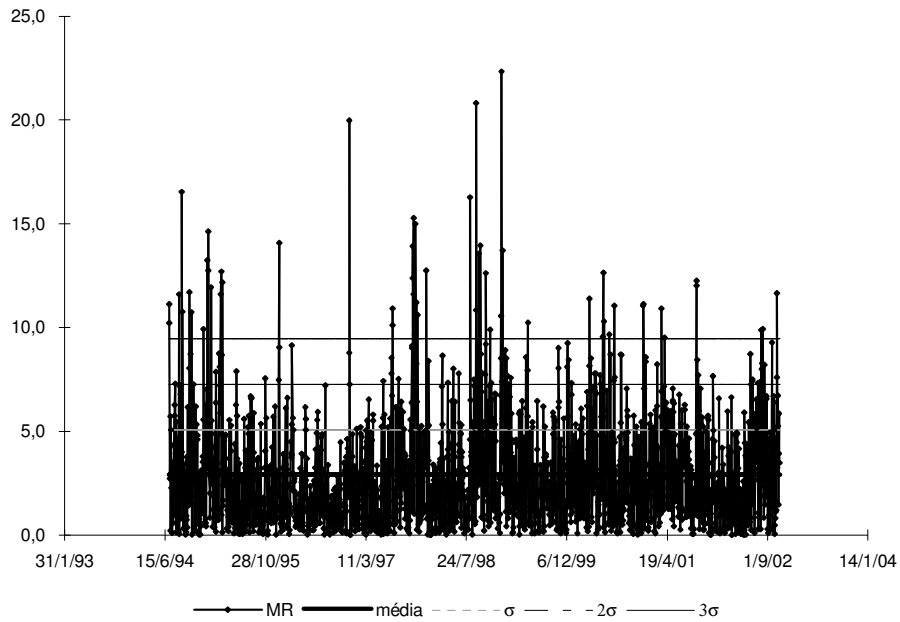


Figura A.89 - Gráfico de Controle de mR - ln (Retorno Diário) - PETR3



**Figura A.90 - Gráfico de Controle de X - In (Retorno Diário) - ITAU4**



**Figura A.91 - Gráfico de Controle de mR - In (Retorno Diário) - ITAU4**

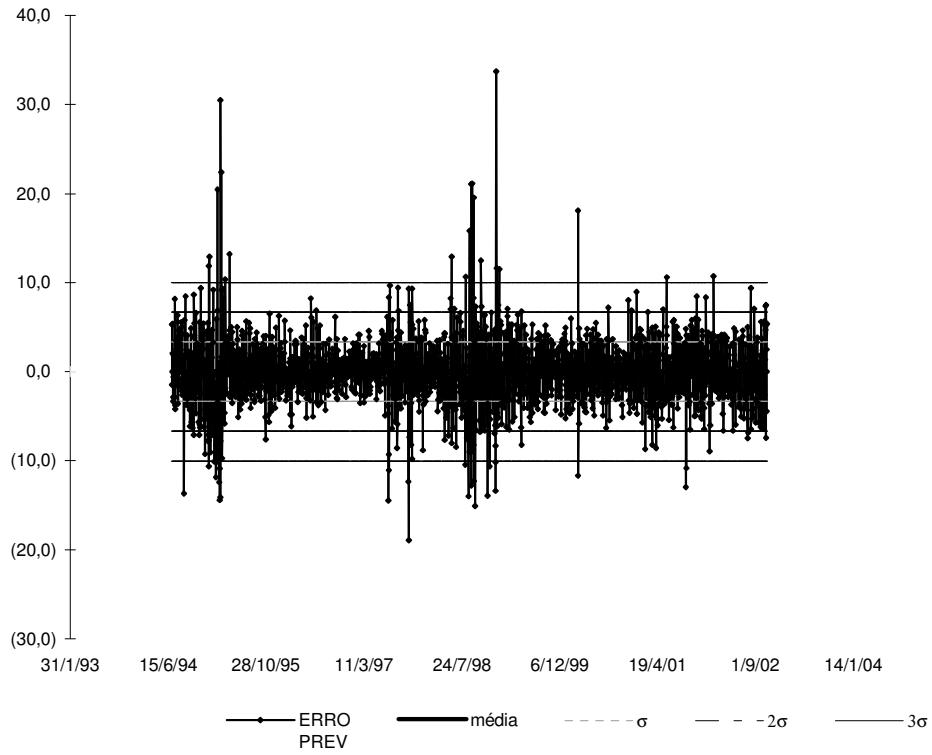


Figura A.92 - Gráfico de Controle de X - ln (Retorno Diário) - ELET6

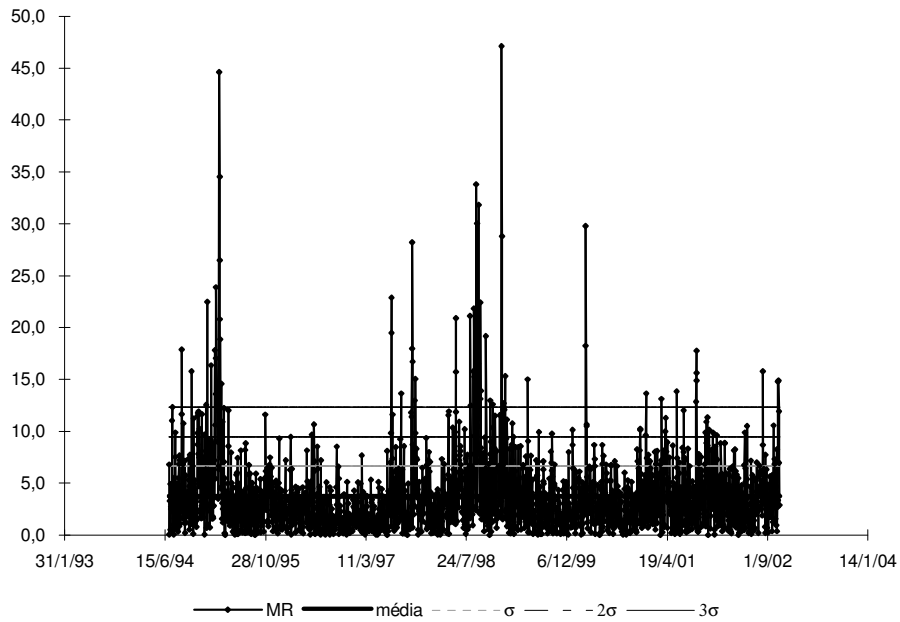


Figura A.93 - Gráfico de Controle de mR - ln (Retorno Diário) - ELET6



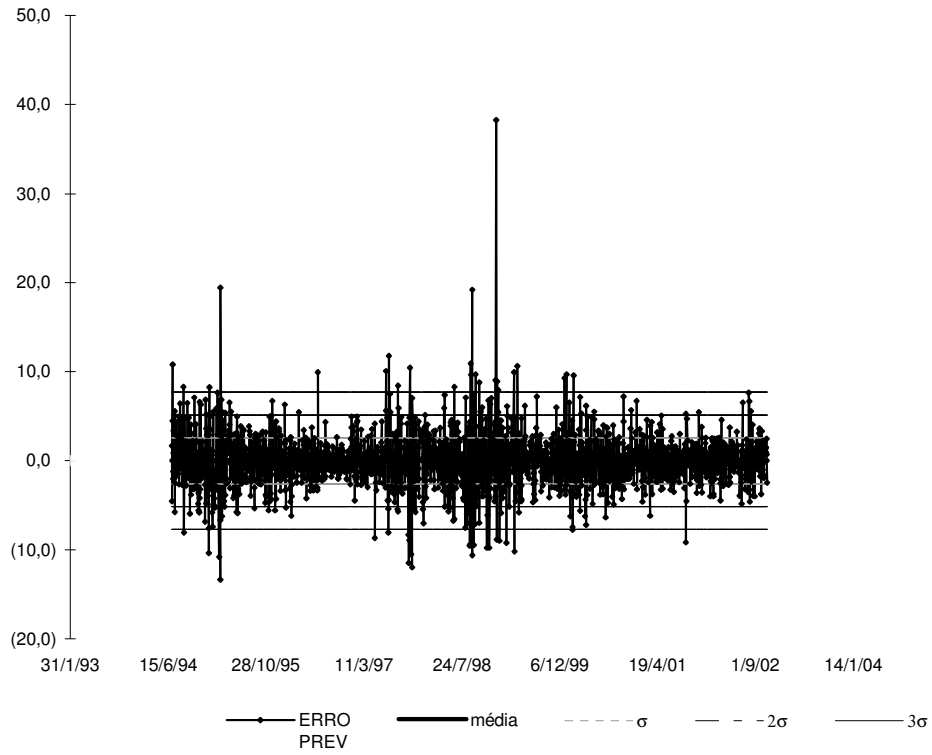


Figura A.94 - Gráfico de Controle de X - In (Retorno Diário) - VALE5

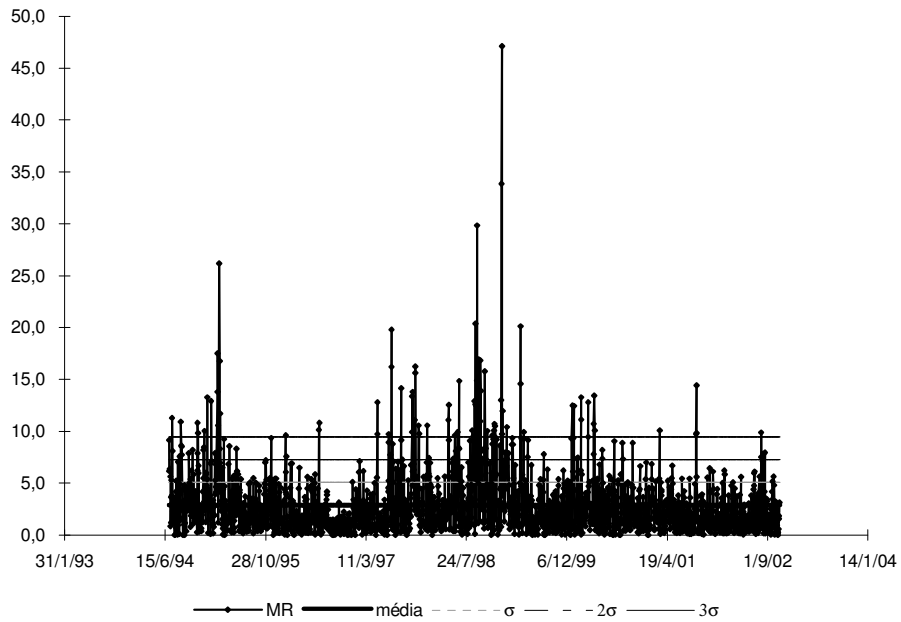


Figura A.95 - Gráfico de Controle de mR - In (Retorno Diário) - VALE5

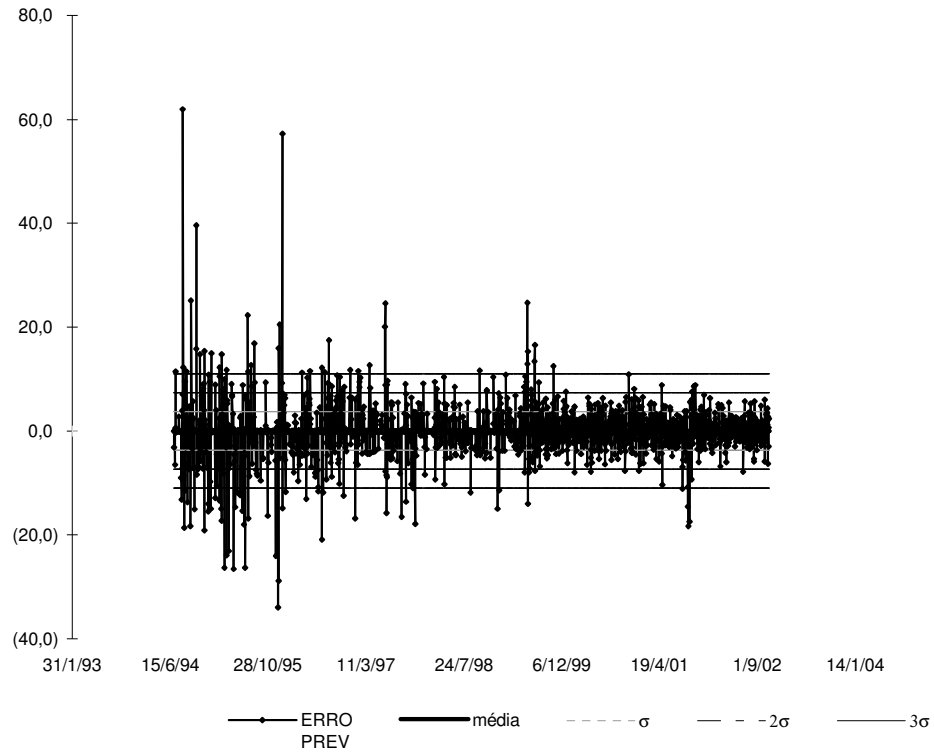


Figura A.96 - Gráfico de Controle de X - In (Retorno Diário) - EMBR4

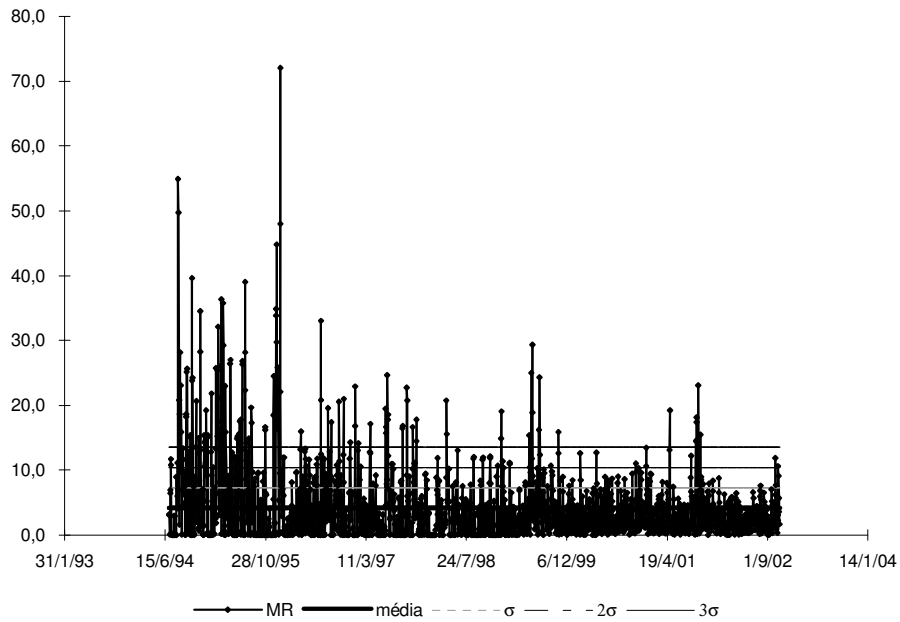


Figura A.97 - Gráfico de Controle de mR - In (Retorno Diário) - EMBR4

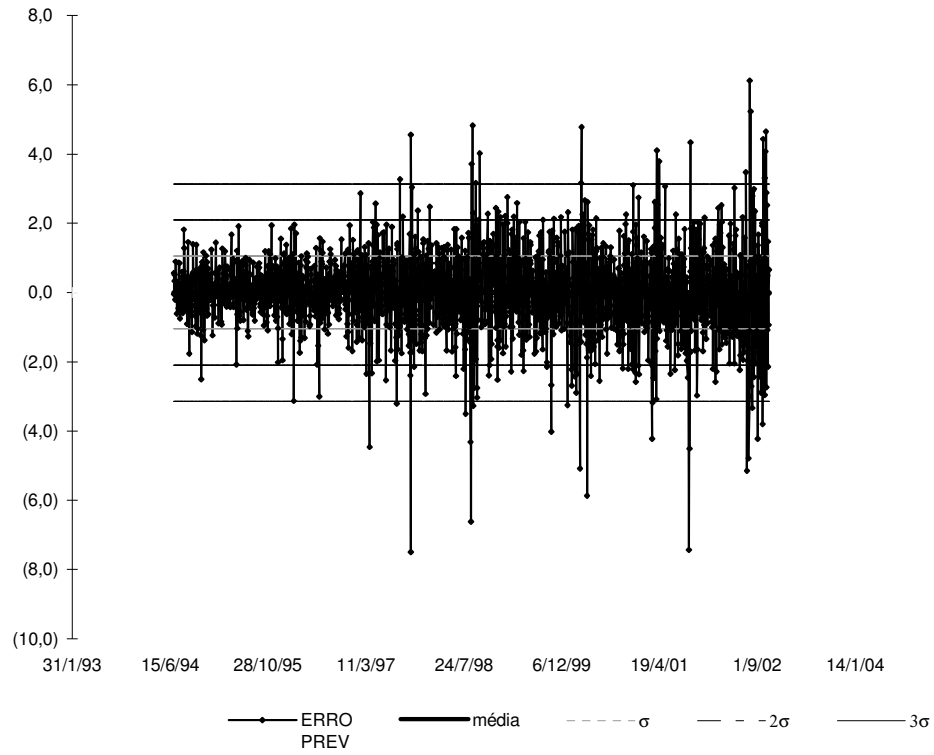


Figura A.98 - Gráfico de Controle de X - In (Retorno Diário) - DJONES

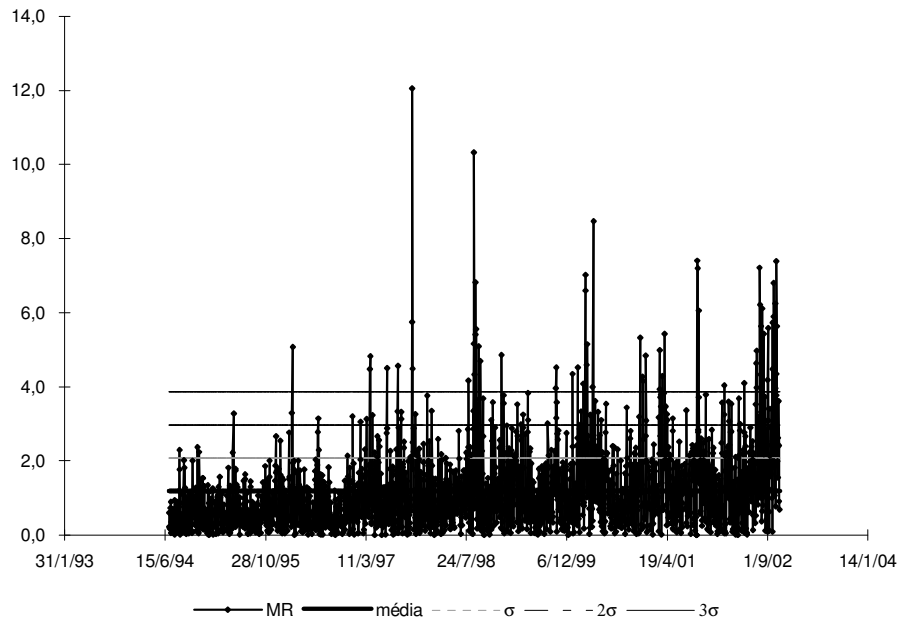


Figura A.99 - Gráfico de Controle de mR - In (Retorno Diário) - DJONES

TABELA A.2 - PERCENTUAL DE PONTOS

DISTÂNCIA DA MÉDIA	GRÁFICO		VALOR IDEAL
	X	mR	
<b>TNLP4</b>			
ATÉ 1-SIGMA	86%	83%	60% A 75%
ATÉ 2-SIGMA	97%	96%	90% A 98%
ATÉ 3-SIGMA	99%	99%	99% A 100%
<b>PETR4</b>			
ATÉ 1-SIGMA	72%	68%	60% A 75%
ATÉ 2-SIGMA	93%	91%	90% A 98%
ATÉ 3-SIGMA	98%	97%	99% A 100%
<b>BBDC4</b>			
ATÉ 1-SIGMA	72%	66%	60% A 75%
ATÉ 2-SIGMA	93%	91%	90% A 98%
ATÉ 3-SIGMA	98%	97%	99% A 100%
<b>TSPP4</b>			
ATÉ 1-SIGMA	86%	83%	60% A 75%
ATÉ 2-SIGMA	97%	96%	90% A 98%
ATÉ 3-SIGMA	99%	99%	99% A 100%
<b>EBTP4</b>			
ATÉ 1-SIGMA	87%	83%	60% A 75%
ATÉ 2-SIGMA	97%	96%	90% A 98%
ATÉ 3-SIGMA	99%	99%	99% A 100%
<b>PETR3</b>			
ATÉ 1-SIGMA	73%	68%	60% A 75%
ATÉ 2-SIGMA	92%	90%	90% A 98%
ATÉ 3-SIGMA	97%	96%	99% A 100%
<b>ITAU4</b>			
ATÉ 1-SIGMA	71%	64%	60% A 75%
ATÉ 2-SIGMA	93%	90%	90% A 98%
ATÉ 3-SIGMA	98%	97%	99% A 100%
<b>ELET6</b>			
ATÉ 1-SIGMA	71%	67%	60% A 75%
ATÉ 2-SIGMA	94%	91%	90% A 98%
ATÉ 3-SIGMA	98%	97%	99% A 100%
<b>VALE5</b>			
ATÉ 1-SIGMA	71%	68%	60% A 75%
ATÉ 2-SIGMA	93%	90%	90% A 98%
ATÉ 3-SIGMA	98%	96%	99% A 100%
<b>EMBR4</b>			
ATÉ 1-SIGMA	76%	70%	60% A 75%
ATÉ 2-SIGMA	91%	88%	90% A 98%
ATÉ 3-SIGMA	96%	94%	99% A 100%
<b>DJONES</b>			
ATÉ 1-SIGMA	72%	66%	60% A 75%
ATÉ 2-SIGMA	93%	91%	90% A 98%
ATÉ 3-SIGMA	98%	97%	99% A 100%

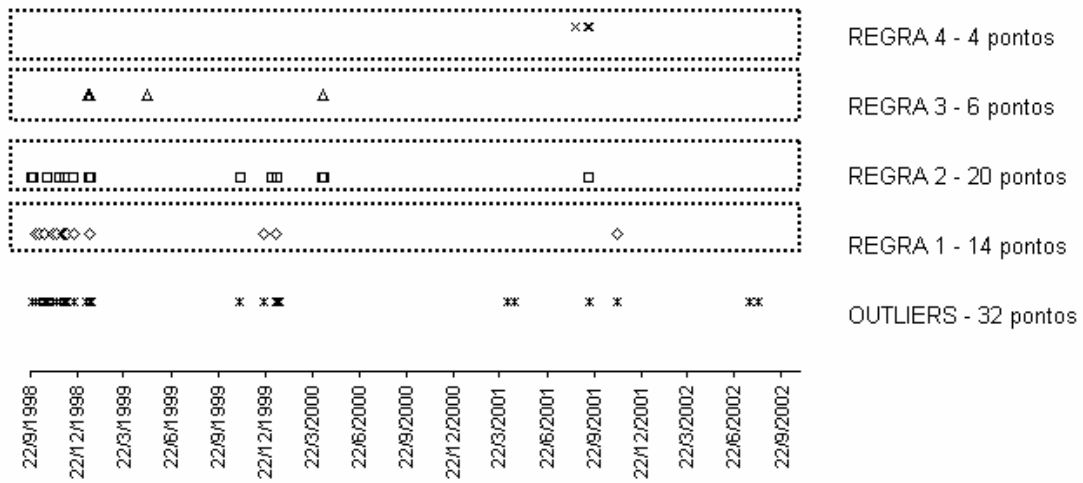


Figura A.100 - Pontos Fora de Controle - Gráfico de Controle de X - TNLP4

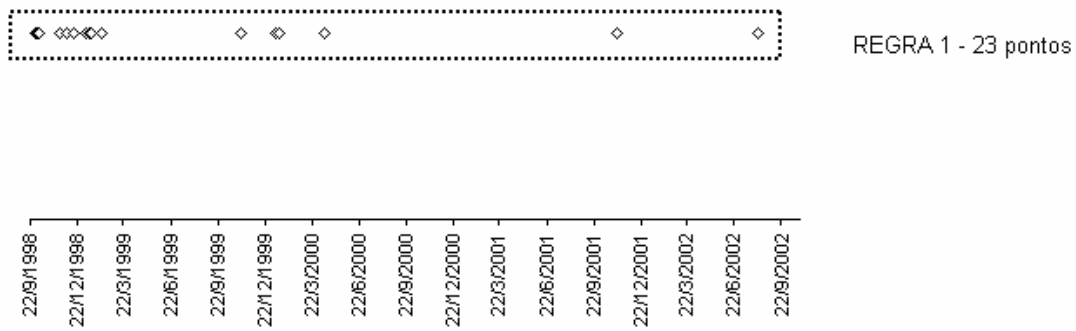


Figura A.101 - Pontos Fora de Controle - Gráfico de Controle de mR - TNLP4

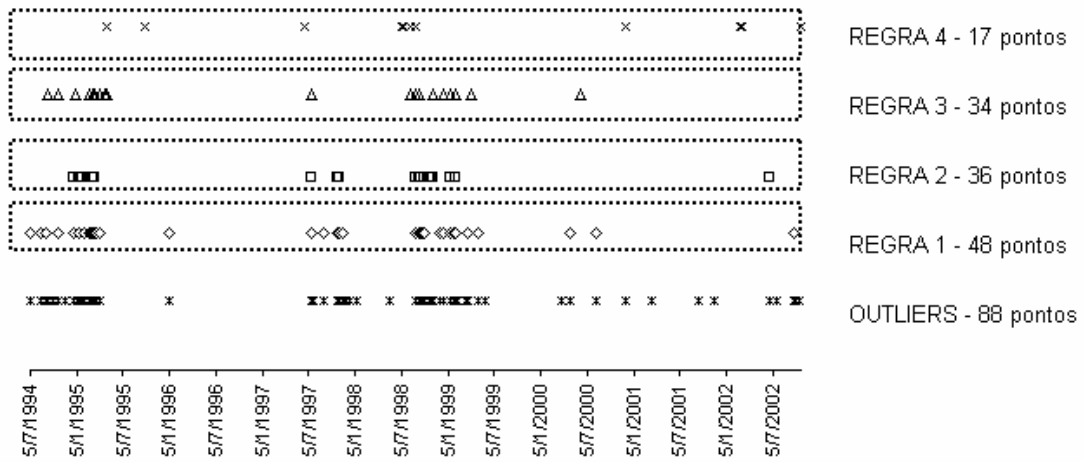


Figura A.102 - Pontos Fora de Controle - Gráfico de Controle de X - PETR4

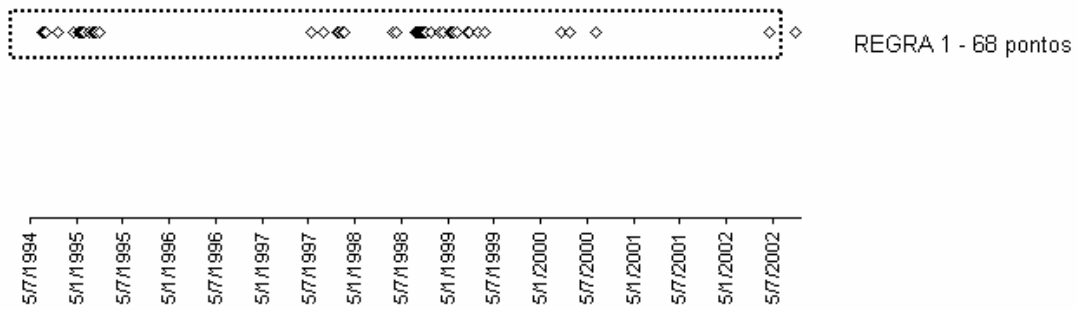


Figura A.103 - Pontos Fora de Controle - Gráfico de Controle de mR - PETR4

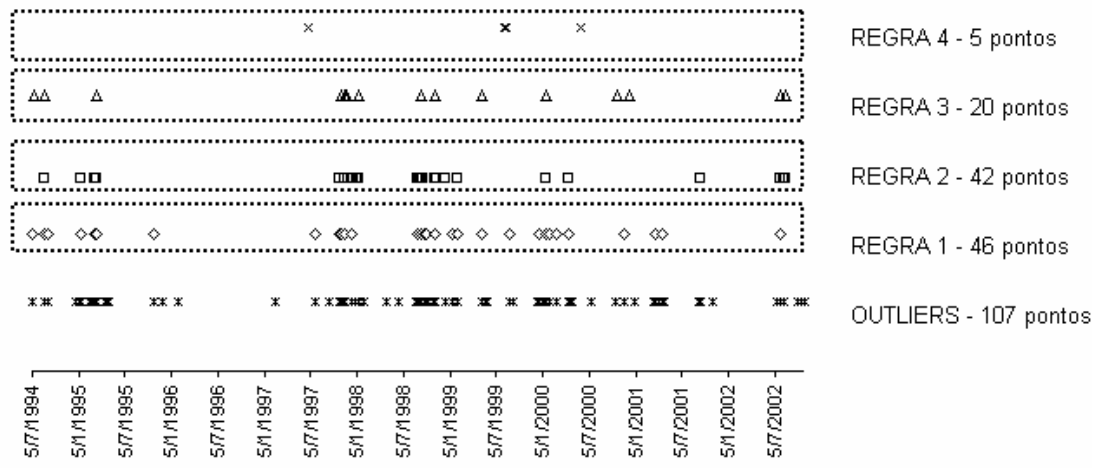


Figura A.104 - Pontos Fora de Controle - Gráfico de Controle de X - BBDC4

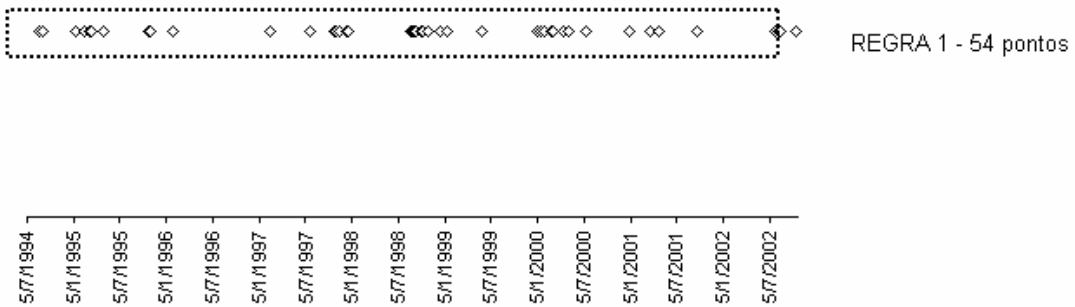


Figura A.105 - Pontos Fora de Controle - Gráfico de Controle de mR - BBDC4

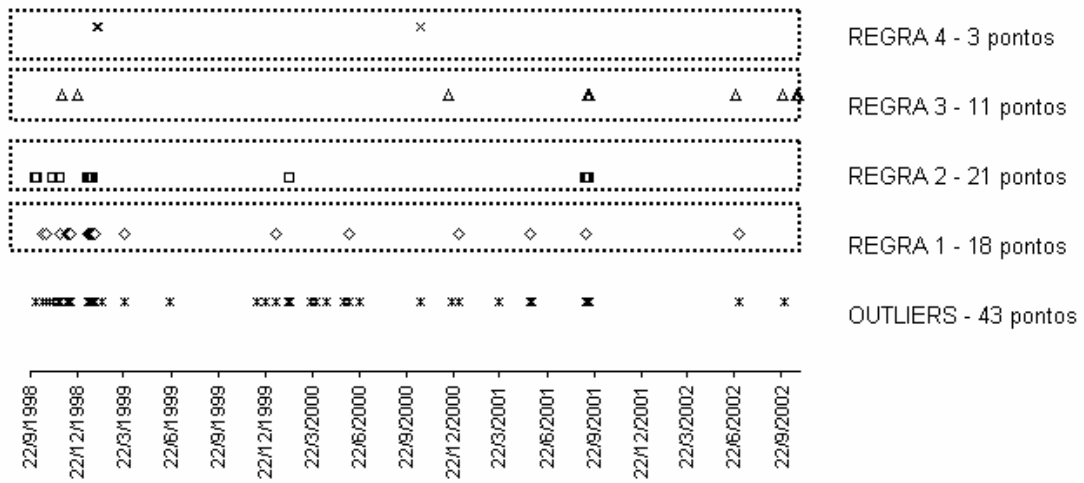


Figura A.106 - Pontos Fora de Controle - Gráfico de Controle de X - TSPP4

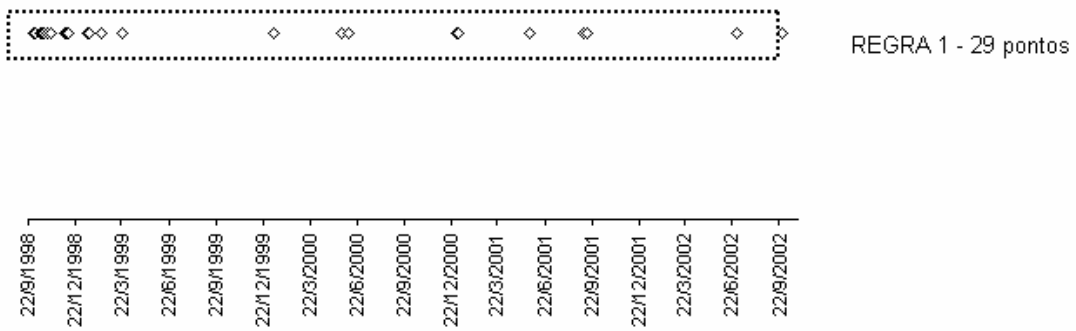


Figura A.107 - Pontos Fora de Controle - Gráfico de Controle de mR - TSPP4



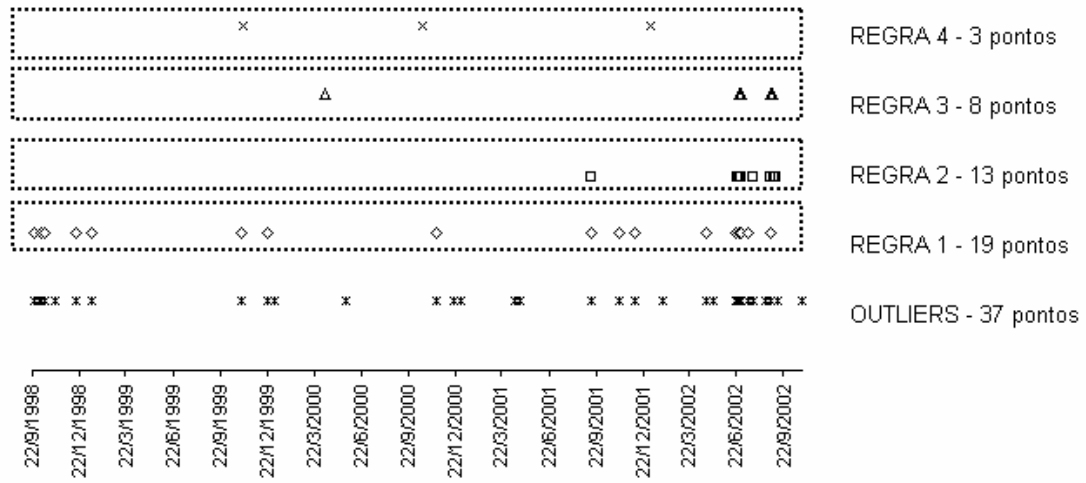


Figura A.108 - Pontos Fora de Controle - Gráfico de Controle de X - EBTP4

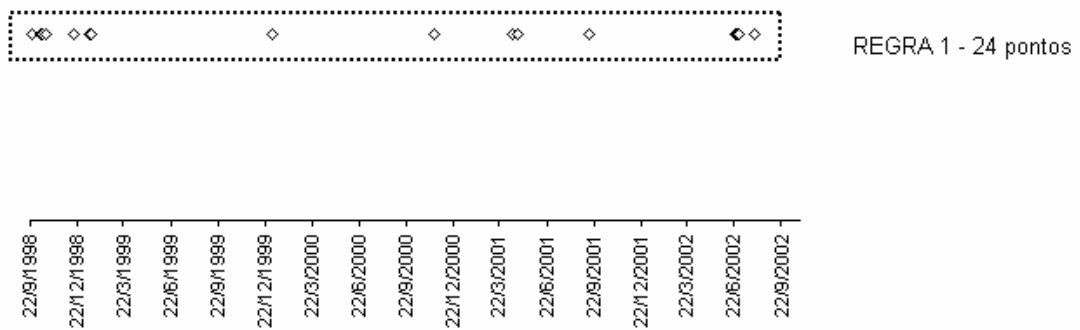


Figura A.109 - Pontos Fora de Controle - Gráfico de Controle de mR - EBTP4

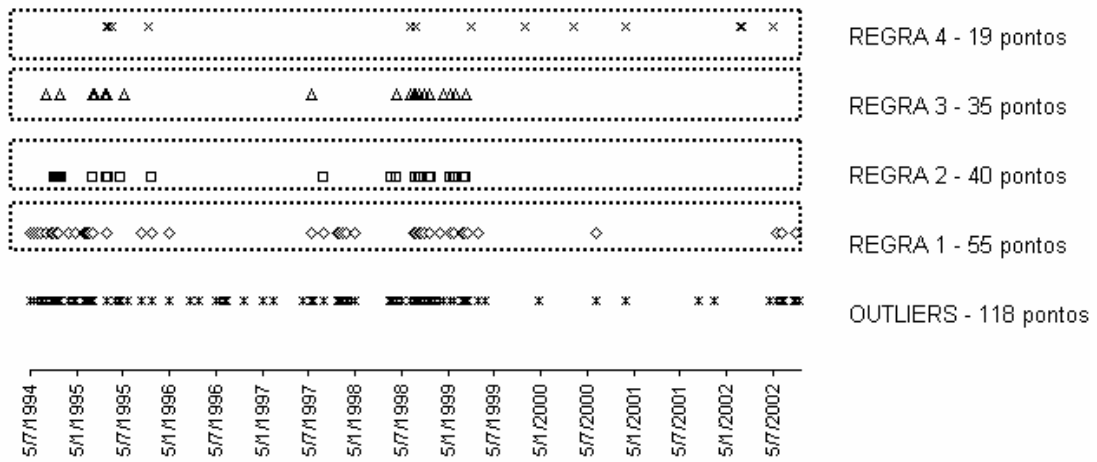


Figura A.110 - Pontos Fora de Controle - Gráfico de Controle de X - PETR3

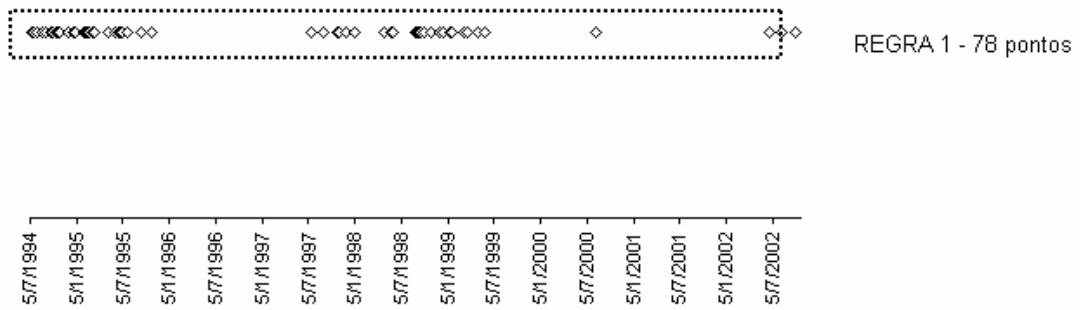


Figura A.111 - Pontos Fora de Controle - Gráfico de Controle de mR - PETR3

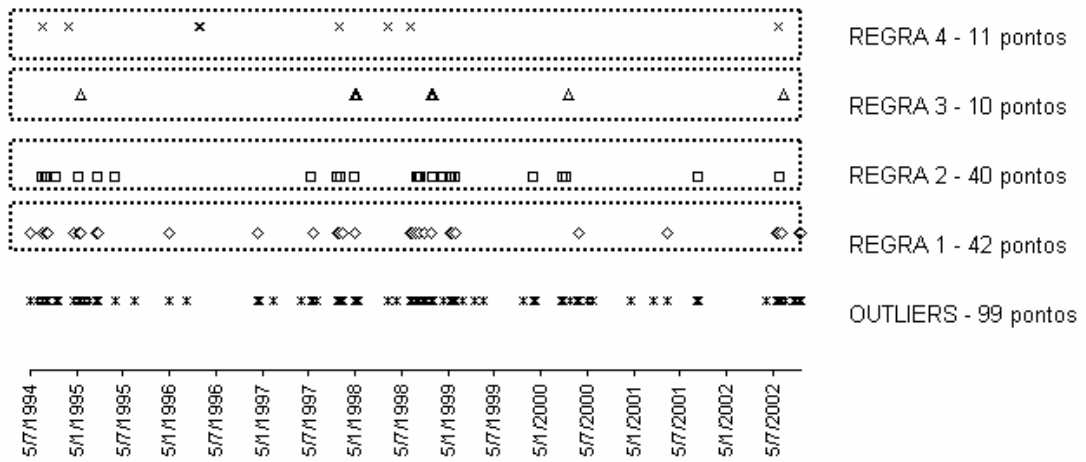


Figura A.112 - Pontos Fora de Controle - Gráfico de Controle de X - ITAU4

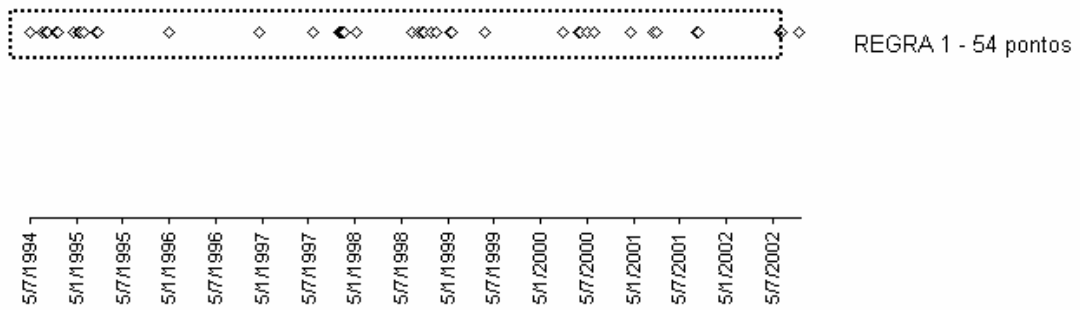


Figura A.113 - Pontos Fora de Controle - Gráfico de Controle de mR - ITAU4

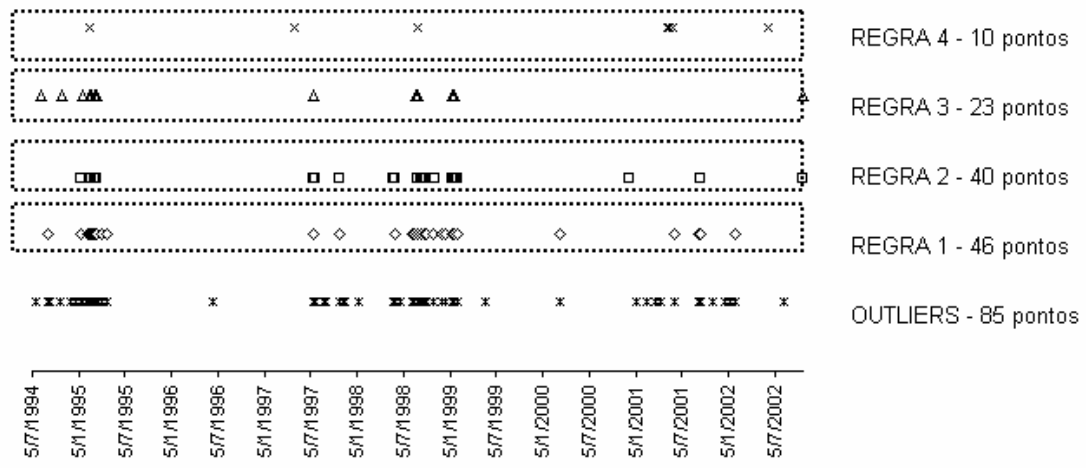


Figura A.114 - Pontos Fora de Controle - Gráfico de Controle de X - ELET6

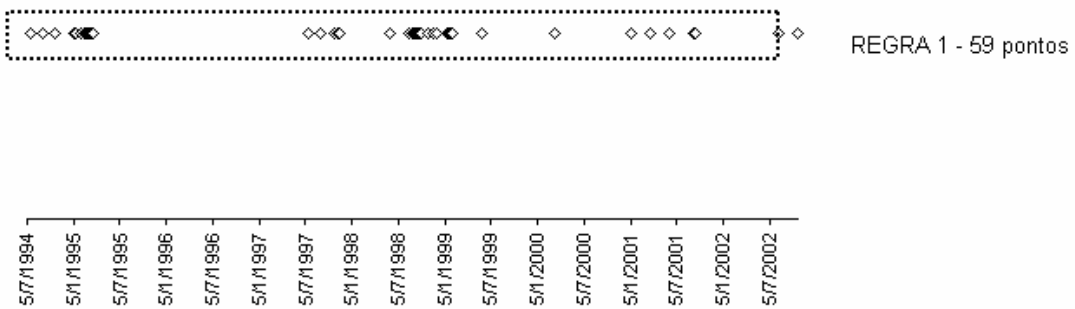


Figura A.115 - Pontos Fora de Controle - Gráfico de Controle de mR - ELET6

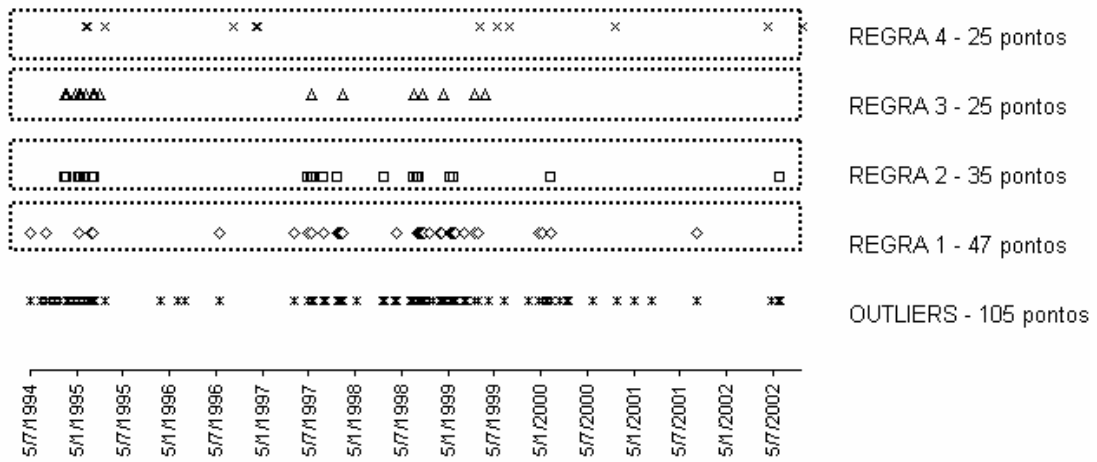


Figura A.116 - Pontos Fora de Controle - Gráfico de Controle de X - VALE5

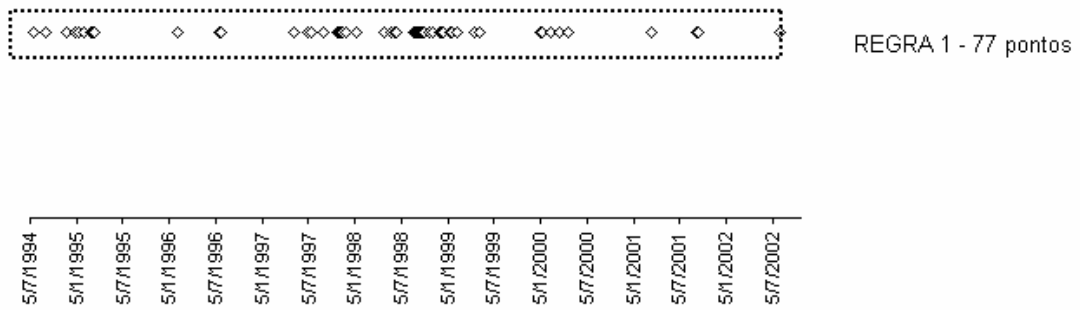


Figura A.117 - Pontos Fora de Controle - Gráfico de Controle de mR - VALE5

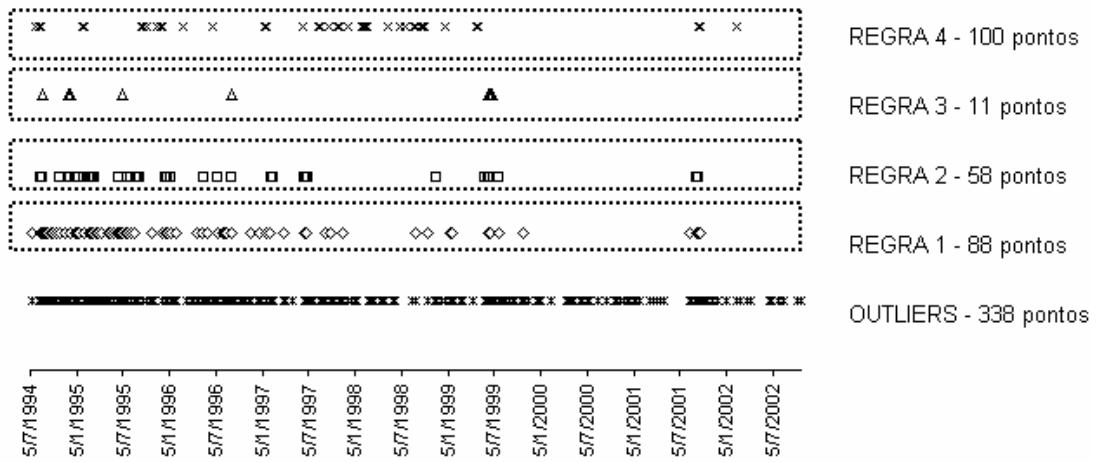


Figura A.118 - Pontos Fora de Controle - Gráfico de Controle de X - EMBR4

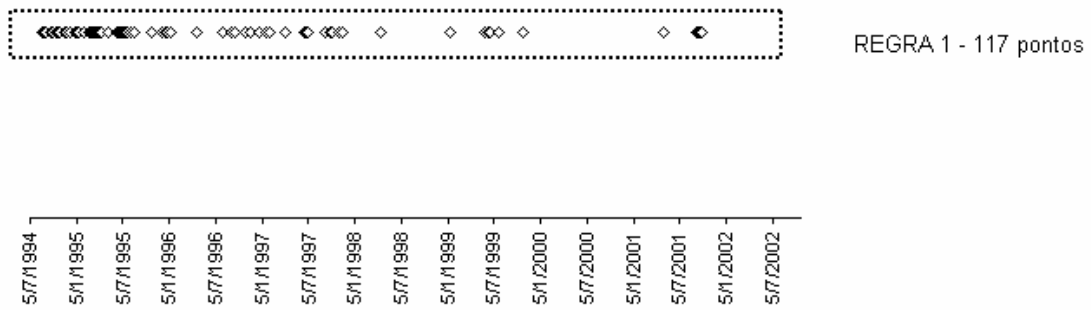


Figura A.119 - Pontos Fora de Controle - Gráfico de Controle de mR - EMBR4

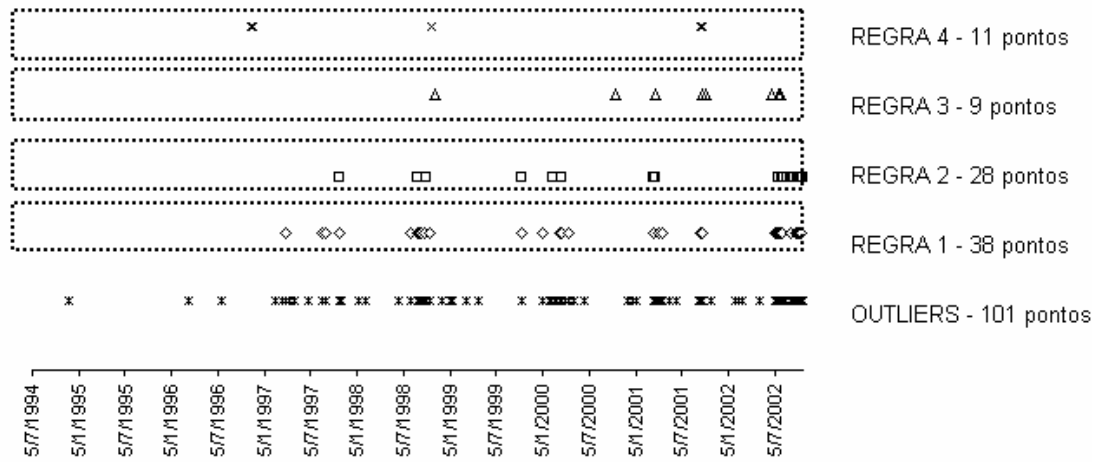


Figura A.120 - Pontos Fora de Controle - Gráfico de Controle de X - DJONES

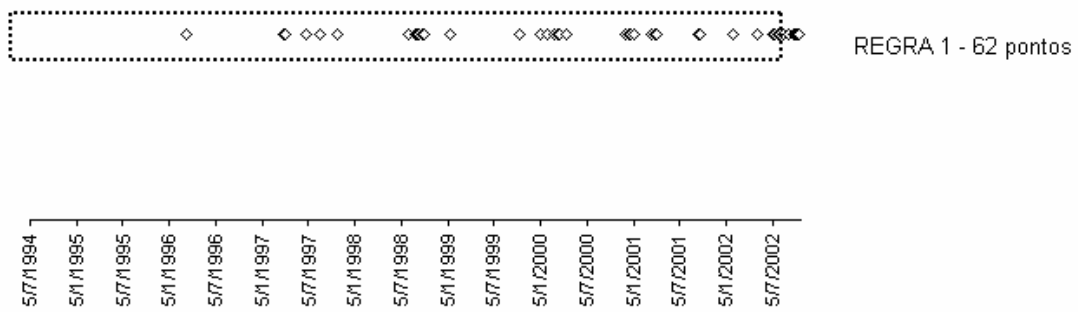


Figura A.121 - Pontos Fora de Controle - Gráfico de Controle de mR - DJONES

TABELA A.3 - LIMITES INFERIOR E SUPERIOR - TNLP4

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
1	0,00000	0,00000	zero	zero
2	-0,00139	0,00000	$\bar{X}$	zero
3	-1,68978	0,00000	$\bar{X} - 0,5s$	zero
4	-3,37817	0,00000	$\bar{X} - 1s$	zero
5	-5,06656	0,00000	$\bar{X} - 1,5s$	zero
6	-6,75495	0,00000	$\bar{X} - 2s$	zero
7	-8,44334	0,00000	$\bar{X} - 2,5s$	zero
8	-10,13173	0,00000	$\bar{X} - 3s$	zero
9	-0,00139	-0,00139	$\bar{X}$	$\bar{X}$
10	-1,68978	-0,00139	$\bar{X} - 0,5s$	$\bar{X}$
11	-3,37817	-0,00139	$\bar{X} - 1s$	$\bar{X}$
12	-5,06656	-0,00139	$\bar{X} - 1,5s$	$\bar{X}$
13	-6,75495	-0,00139	$\bar{X} - 2s$	$\bar{X}$
14	-8,44334	-0,00139	$\bar{X} - 2,5s$	$\bar{X}$
15	-10,13173	-0,00139	$\bar{X} - 3s$	$\bar{X}$
16	0,00000	1,68700	zero	$\bar{X} + 0,5s$
17	-0,00139	1,68700	$\bar{X}$	$\bar{X} + 0,5s$
18	1,68700	1,68700	$\bar{X} + 0,5s$	$\bar{X} + 0,5s$
19	-1,68978	1,68700	$\bar{X} - 0,5s$	$\bar{X} + 0,5s$
20	-3,37817	1,68700	$\bar{X} - 1s$	$\bar{X} + 0,5s$
21	-5,06656	1,68700	$\bar{X} - 1,5s$	$\bar{X} + 0,5s$
22	-6,75495	1,68700	$\bar{X} - 2s$	$\bar{X} + 0,5s$
23	-8,44334	1,68700	$\bar{X} - 2,5s$	$\bar{X} + 0,5s$
24	-10,13173	1,68700	$\bar{X} - 3s$	$\bar{X} + 0,5s$
25	0,00000	3,37539	zero	$\bar{X} + 1s$
26	-0,00139	3,37539	$\bar{X}$	$\bar{X} + 1s$
27	1,68700	3,37539	$\bar{X} + 0,5s$	$\bar{X} + 1s$
28	3,37539	3,37539	$\bar{X} + 1s$	$\bar{X} + 1s$
29	-1,68978	3,37539	$\bar{X} - 0,5s$	$\bar{X} + 1s$
30	-3,37817	3,37539	$\bar{X} - 1s$	$\bar{X} + 1s$
31	-5,06656	3,37539	$\bar{X} - 1,5s$	$\bar{X} + 1s$
32	-6,75495	3,37539	$\bar{X} - 2s$	$\bar{X} + 1s$
33	-8,44334	3,37539	$\bar{X} - 2,5s$	$\bar{X} + 1s$
34	-10,13173	3,37539	$\bar{X} - 3s$	$\bar{X} + 1s$
35	0,00000	5,06378	zero	$\bar{X} + 1,5s$
36	-0,00139	5,06378	$\bar{X}$	$\bar{X} + 1,5s$
37	1,68700	5,06378	$\bar{X} + 0,5s$	$\bar{X} + 1,5s$
38	3,37539	5,06378	$\bar{X} + 1s$	$\bar{X} + 1,5s$
39	5,06378	5,06378	$\bar{X} + 1,5s$	$\bar{X} + 1,5s$
40	-1,68978	5,06378	$\bar{X} - 0,5s$	$\bar{X} + 1,5s$
41	-3,37817	5,06378	$\bar{X} - 1s$	$\bar{X} + 1,5s$
42	-5,06656	5,06378	$\bar{X} - 1,5s$	$\bar{X} + 1,5s$
43	-6,75495	5,06378	$\bar{X} - 2s$	$\bar{X} + 1,5s$
44	-8,44334	5,06378	$\bar{X} - 2,5s$	$\bar{X} + 1,5s$
45	-10,13173	5,06378	$\bar{X} - 3s$	$\bar{X} + 1,5s$
46	0,00000	6,75217	zero	$\bar{X} + 2s$
47	-0,00139	6,75217	$\bar{X}$	$\bar{X} + 2s$
48	1,68700	6,75217	$\bar{X} + 0,5s$	$\bar{X} + 2s$
49	3,37539	6,75217	$\bar{X} + 1s$	$\bar{X} + 2s$
50	5,06378	6,75217	$\bar{X} + 1,5s$	$\bar{X} + 2s$
51	6,75217	6,75217	$\bar{X} + 2s$	$\bar{X} + 2s$
52	-1,68978	6,75217	$\bar{X} - 0,5s$	$\bar{X} + 2s$
53	-3,37817	6,75217	$\bar{X} - 1s$	$\bar{X} + 2s$

(continua na página seguinte)



TABELA A.3 - LIMITES INFERIOR E SUPERIOR - TNLP4

(continuação)

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
54	-5,06656	6,75217	$\bar{X} - 1,5s$	$\bar{X} + 2s$
55	-6,75495	6,75217	$\bar{X} - 2s$	$\bar{X} + 2s$
56	-8,44334	6,75217	$\bar{X} - 2,5s$	$\bar{X} + 2s$
57	-10,13173	6,75217	$\bar{X} - 3s$	$\bar{X} + 2s$
58	0,00000	8,44055	zero	$\bar{X} + 2,5s$
59	-0,00139	8,44055	$\bar{X}$	$\bar{X} + 2,5s$
60	1,68700	8,44055	$\bar{X} + 0,5s$	$\bar{X} + 2,5s$
61	3,37539	8,44055	$\bar{X} + 1s$	$\bar{X} + 2,5s$
62	5,06378	8,44055	$\bar{X} + 1,5s$	$\bar{X} + 2,5s$
63	6,75217	8,44055	$\bar{X} + 2s$	$\bar{X} + 2,5s$
64	8,44055	8,44055	$\bar{X} + 2,5s$	$\bar{X} + 2,5s$
65	-1,68978	8,44055	-0,5s	$\bar{X} + 2,5s$
66	-3,37817	8,44055	$\bar{X} - 1s$	$\bar{X} + 2,5s$
67	-5,06656	8,44055	$\bar{X} - 1,5s$	$\bar{X} + 2,5s$
68	-6,75495	8,44055	$\bar{X} - 2s$	$\bar{X} + 2,5s$
69	-8,44334	8,44055	$\bar{X} - 2,5s$	$\bar{X} + 2,5s$
70	-10,13173	8,44055	$\bar{X} - 3s$	$\bar{X} + 2,5s$
71	0,00000	10,12894	zero	$\bar{X} + 3s$
72	-0,00139	10,12894	$\bar{X}$	$\bar{X} + 3s$
73	1,68700	10,12894	$\bar{X} + 0,5s$	$\bar{X} + 3s$
74	3,37539	10,12894	$\bar{X} + 1s$	$\bar{X} + 3s$
75	5,06378	10,12894	$\bar{X} + 1,5s$	$\bar{X} + 3s$
76	6,75217	10,12894	$\bar{X} + 2s$	$\bar{X} + 3s$
77	8,44055	10,12894	$\bar{X} + 2,5s$	$\bar{X} + 3s$
78	10,12894	10,12894	$\bar{X} + 3s$	$\bar{X} + 3s$
79	-1,68978	10,12894	$\bar{X} - 0,5s$	$\bar{X} + 3s$
80	-3,37817	10,12894	$\bar{X} - 1s$	$\bar{X} + 3s$
81	-5,06656	10,12894	$\bar{X} - 1,5s$	$\bar{X} + 3s$
82	-6,75495	10,12894	$\bar{X} - 2s$	$\bar{X} + 3s$
83	-8,44334	10,12894	$\bar{X} - 2,5s$	$\bar{X} + 3s$
84	-10,13173	10,12894	$\bar{X} - 3s$	$\bar{X} + 3s$
85	-1,68978	-1,68978	$\bar{X} - 0,5s$	$\bar{X} - 0,5s$
86	-3,37817	-1,68978	$\bar{X} - 1s$	$\bar{X} - 0,5s$
87	-5,06656	-1,68978	$\bar{X} - 1,5s$	$\bar{X} - 0,5s$
88	-6,75495	-1,68978	$\bar{X} - 2s$	$\bar{X} - 0,5s$
89	-8,44334	-1,68978	$\bar{X} - 2,5s$	$\bar{X} - 0,5s$
90	-10,13173	-1,68978	$\bar{X} - 3s$	$\bar{X} - 0,5s$
91	-3,37817	-3,37817	$\bar{X} - 1s$	$\bar{X} - 1s$
92	-5,06656	-3,37817	$\bar{X} - 1,5s$	$\bar{X} - 1s$
93	-6,75495	-3,37817	$\bar{X} - 2s$	$\bar{X} - 1s$
94	-8,44334	-3,37817	$\bar{X} - 2,5s$	$\bar{X} - 1s$
95	-10,13173	-3,37817	$\bar{X} - 3s$	$\bar{X} - 1s$
96	-5,06656	-5,06656	$\bar{X} - 1,5s$	$\bar{X} - 1,5s$
97	-6,75495	-5,06656	$\bar{X} - 2s$	$\bar{X} - 1,5s$
98	-8,44334	-5,06656	$\bar{X} - 2,5s$	$\bar{X} - 1,5s$
99	-10,13173	-5,06656	$\bar{X} - 3s$	$\bar{X} - 1,5s$
100	-6,75495	-6,75495	$\bar{X} - 2s$	$\bar{X} - 2s$
101	-8,44334	-6,75495	$\bar{X} - 2,5s$	$\bar{X} - 2s$
102	-10,13173	-6,75495	$\bar{X} - 3s$	$\bar{X} - 2s$
103	-8,44334	-8,44334	$\bar{X} - 2,5s$	$\bar{X} - 2,5s$
104	-10,13173	-8,44334	$\bar{X} - 3s$	$\bar{X} - 2,5s$
105	-10,13173	-10,13173	$\bar{X} - 3s$	$\bar{X} - 3s$

TABELA A.4 - LIMITES INFERIOR E SUPERIOR - PETR4

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
1	0,00000	0,00000	zero	zero
2	-0,00048	0,00000	$\bar{X}$	zero
3	-1,40036	0,00000	$\bar{X} - 0,5s$	zero
4	-2,80024	0,00000	$\bar{X} - 1s$	zero
5	-4,20011	0,00000	$\bar{X} - 1,5s$	zero
6	-5,59999	0,00000	$\bar{X} - 2s$	zero
7	-6,99987	0,00000	$\bar{X} - 2,5s$	zero
8	-8,39974	0,00000	$\bar{X} - 3s$	zero
9	-0,00048	-0,00048	$\bar{X}$	$\bar{X}$
10	-1,40036	-0,00048	$\bar{X} - 0,5s$	$\bar{X}$
11	-2,80024	-0,00048	$\bar{X} - 1s$	$\bar{X}$
12	-4,20011	-0,00048	$\bar{X} - 1,5s$	$\bar{X}$
13	-5,59999	-0,00048	$\bar{X} - 2s$	$\bar{X}$
14	-6,99987	-0,00048	$\bar{X} - 2,5s$	$\bar{X}$
15	-8,39974	-0,00048	$\bar{X} - 3s$	$\bar{X}$
16	0,00000	1,39939	zero	$\bar{X} + 0,5s$
17	-0,00048	1,39939	$\bar{X}$	$\bar{X} + 0,5s$
18	1,39939	1,39939	$\bar{X} + 0,5s$	$\bar{X} + 0,5s$
19	-1,40036	1,39939	$\bar{X} - 0,5s$	$\bar{X} + 0,5s$
20	-2,80024	1,39939	$\bar{X} - 1s$	$\bar{X} + 0,5s$
21	-4,20011	1,39939	$\bar{X} - 1,5s$	$\bar{X} + 0,5s$
22	-5,59999	1,39939	$\bar{X} - 2s$	$\bar{X} + 0,5s$
23	-6,99987	1,39939	$\bar{X} - 2,5s$	$\bar{X} + 0,5s$
24	-8,39974	1,39939	$\bar{X} - 3s$	$\bar{X} + 0,5s$
25	0,00000	2,79927	zero	$\bar{X} + 1s$
26	-0,00048	2,79927	$\bar{X}$	$\bar{X} + 1s$
27	1,39939	2,79927	$\bar{X} + 0,5s$	$\bar{X} + 1s$
28	2,79927	2,79927	$\bar{X} + 1s$	$\bar{X} + 1s$
29	-1,40036	2,79927	$\bar{X} - 0,5s$	$\bar{X} + 1s$
30	-2,80024	2,79927	$\bar{X} - 1s$	$\bar{X} + 1s$
31	-4,20011	2,79927	$\bar{X} - 1,5s$	$\bar{X} + 1s$
32	-5,59999	2,79927	$\bar{X} - 2s$	$\bar{X} + 1s$
33	-6,99987	2,79927	$\bar{X} - 2,5s$	$\bar{X} + 1s$
34	-8,39974	2,79927	$\bar{X} - 3s$	$\bar{X} + 1s$
35	0,00000	4,19914	zero	$\bar{X} + 1,5s$
36	-0,00048	4,19914	$\bar{X}$	$\bar{X} + 1,5s$
37	1,39939	4,19914	$\bar{X} + 0,5s$	$\bar{X} + 1,5s$
38	2,79927	4,19914	$\bar{X} + 1s$	$\bar{X} + 1,5s$
39	4,19914	4,19914	$\bar{X} + 1,5s$	$\bar{X} + 1,5s$
40	-1,40036	4,19914	$\bar{X} - 0,5s$	$\bar{X} + 1,5s$
41	-2,80024	4,19914	$\bar{X} - 1s$	$\bar{X} + 1,5s$
42	-4,20011	4,19914	$\bar{X} - 1,5s$	$\bar{X} + 1,5s$
43	-5,59999	4,19914	$\bar{X} - 2s$	$\bar{X} + 1,5s$
44	-6,99987	4,19914	$\bar{X} - 2,5s$	$\bar{X} + 1,5s$
45	-8,39974	4,19914	$\bar{X} - 3s$	$\bar{X} + 1,5s$
46	0,00000	5,59902	zero	$\bar{X} + 2s$
47	-0,00048	5,59902	$\bar{X}$	$\bar{X} + 2s$
48	1,39939	5,59902	$\bar{X} + 0,5s$	$\bar{X} + 2s$
49	2,79927	5,59902	$\bar{X} + 1s$	$\bar{X} + 2s$
50	4,19914	5,59902	$\bar{X} + 1,5s$	$\bar{X} + 2s$
51	5,59902	5,59902	$\bar{X} + 2s$	$\bar{X} + 2s$
52	-1,40036	5,59902	$\bar{X} - 0,5s$	$\bar{X} + 2s$
53	-2,80024	5,59902	$\bar{X} - 1s$	$\bar{X} + 2s$

(continua na página seguinte)

TABELA A.4 - LIMITES INFERIOR E SUPERIOR - PETR4

(continuação)

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
54	-4,20011	5,59902	$\bar{X} - 1,5s$	$\bar{X} + 2s$
55	-5,59999	5,59902	$\bar{X} - 2s$	$\bar{X} + 2s$
56	-6,99987	5,59902	$\bar{X} - 2,5s$	$\bar{X} + 2s$
57	-8,39974	5,59902	$\bar{X} - 3s$	$\bar{X} + 2s$
58	0,00000	6,99890	zero	$\bar{X} + 2,5s$
59	-0,00048	6,99890	$\bar{X}$	$\bar{X} + 2,5s$
60	1,39939	6,99890	$\bar{X} + 0,5s$	$\bar{X} + 2,5s$
61	2,79927	6,99890	$\bar{X} + 1s$	$\bar{X} + 2,5s$
62	4,19914	6,99890	$\bar{X} + 1,5s$	$\bar{X} + 2,5s$
63	5,59902	6,99890	$\bar{X} + 2s$	$\bar{X} + 2,5s$
64	6,99890	6,99890	$\bar{X} + 2,5s$	$\bar{X} + 2,5s$
65	-1,40036	6,99890	-0,5s	$\bar{X} + 2,5s$
66	-2,80024	6,99890	$\bar{X} - 1s$	$\bar{X} + 2,5s$
67	-4,20011	6,99890	$\bar{X} - 1,5s$	$\bar{X} + 2,5s$
68	-5,59999	6,99890	$\bar{X} - 2s$	$\bar{X} + 2,5s$
69	-6,99987	6,99890	$\bar{X} - 2,5s$	$\bar{X} + 2,5s$
70	-8,39974	6,99890	$\bar{X} - 3s$	$\bar{X} + 2,5s$
71	0,00000	8,39877	zero	$\bar{X} + 3s$
72	-0,00048	8,39877	$\bar{X}$	$\bar{X} + 3s$
73	1,39939	8,39877	$\bar{X} + 0,5s$	$\bar{X} + 3s$
74	2,79927	8,39877	$\bar{X} + 1s$	$\bar{X} + 3s$
75	4,19914	8,39877	$\bar{X} + 1,5s$	$\bar{X} + 3s$
76	5,59902	8,39877	$\bar{X} + 2s$	$\bar{X} + 3s$
77	6,99890	8,39877	$\bar{X} + 2,5s$	$\bar{X} + 3s$
78	8,39877	8,39877	$\bar{X} + 3s$	$\bar{X} + 3s$
79	-1,40036	8,39877	$\bar{X} - 0,5s$	$\bar{X} + 3s$
80	-2,80024	8,39877	$\bar{X} - 1s$	$\bar{X} + 3s$
81	-4,20011	8,39877	$\bar{X} - 1,5s$	$\bar{X} + 3s$
82	-5,59999	8,39877	$\bar{X} - 2s$	$\bar{X} + 3s$
83	-6,99987	8,39877	$\bar{X} - 2,5s$	$\bar{X} + 3s$
84	-8,39974	8,39877	$\bar{X} - 3s$	$\bar{X} + 3s$
85	-1,40036	-1,40036	$\bar{X} - 0,5s$	$\bar{X} - 0,5s$
86	-2,80024	-1,40036	$\bar{X} - 1s$	$\bar{X} - 0,5s$
87	-4,20011	-1,40036	$\bar{X} - 1,5s$	$\bar{X} - 0,5s$
88	-5,59999	-1,40036	$\bar{X} - 2s$	$\bar{X} - 0,5s$
89	-6,99987	-1,40036	$\bar{X} - 2,5s$	$\bar{X} - 0,5s$
90	-8,39974	-1,40036	$\bar{X} - 3s$	$\bar{X} - 0,5s$
91	-2,80024	-2,80024	$\bar{X} - 1s$	$\bar{X} - 1s$
92	-4,20011	-2,80024	$\bar{X} - 1,5s$	$\bar{X} - 1s$
93	-5,59999	-2,80024	$\bar{X} - 2s$	$\bar{X} - 1s$
94	-6,99987	-2,80024	$\bar{X} - 2,5s$	$\bar{X} - 1s$
95	-8,39974	-2,80024	$\bar{X} - 3s$	$\bar{X} - 1s$
96	-4,20011	-4,20011	$\bar{X} - 1,5s$	$\bar{X} - 1,5s$
97	-5,59999	-4,20011	$\bar{X} - 2s$	$\bar{X} - 1,5s$
98	-6,99987	-4,20011	$\bar{X} - 2,5s$	$\bar{X} - 1,5s$
99	-8,39974	-4,20011	$\bar{X} - 3s$	$\bar{X} - 1,5s$
100	-5,59999	-5,59999	$\bar{X} - 2s$	$\bar{X} - 2s$
101	-6,99987	-5,59999	$\bar{X} - 2,5s$	$\bar{X} - 2s$
102	-8,39974	-5,59999	$\bar{X} - 3s$	$\bar{X} - 2s$
103	-6,99987	-6,99987	$\bar{X} - 2,5s$	$\bar{X} - 2,5s$
104	-8,39974	-6,99987	$\bar{X} - 3s$	$\bar{X} - 2,5s$
105	-8,39974	-8,39974	$\bar{X} - 3s$	$\bar{X} - 3s$

TABELA A.5 - LIMITES INFERIOR E SUPERIOR - BBDC4

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
1	0,00000	0,00000	zero	zero
2	0,00000	0,00002	zero	$\bar{X}$
3	-1,30375	0,00000	$\bar{X} - 0,5s$	zero
4	-2,60752	0,00000	$\bar{X} - 1s$	zero
5	-3,91129	0,00000	$\bar{X} - 1,5s$	zero
6	-5,21506	0,00000	$\bar{X} - 2s$	zero
7	-6,51883	0,00000	$\bar{X} - 2,5s$	zero
8	-7,82260	0,00000	$\bar{X} - 3s$	zero
9	0,00002	0,00002	$\bar{X}$	$\bar{X}$
10	-1,30375	0,00002	$\bar{X} - 0,5s$	$\bar{X}$
11	-2,60752	0,00002	$\bar{X} - 1s$	$\bar{X}$
12	-3,91129	0,00002	$\bar{X} - 1,5s$	$\bar{X}$
13	-5,21506	0,00002	$\bar{X} - 2s$	$\bar{X}$
14	-6,51883	0,00002	$\bar{X} - 2,5s$	$\bar{X}$
15	-7,82260	0,00002	$\bar{X} - 3s$	$\bar{X}$
16	0,00000	1,30379	zero	$\bar{X} + 0,5s$
17	0,00002	1,30379	$\bar{X}$	$\bar{X} + 0,5s$
18	1,30379	1,30379	$\bar{X} + 0,5s$	$\bar{X} + 0,5s$
19	-1,30375	1,30379	$\bar{X} - 0,5s$	$\bar{X} + 0,5s$
20	-2,60752	1,30379	$\bar{X} - 1s$	$\bar{X} + 0,5s$
21	-3,91129	1,30379	$\bar{X} - 1,5s$	$\bar{X} + 0,5s$
22	-5,21506	1,30379	$\bar{X} - 2s$	$\bar{X} + 0,5s$
23	-6,51883	1,30379	$\bar{X} - 2,5s$	$\bar{X} + 0,5s$
24	-7,82260	1,30379	$\bar{X} - 3s$	$\bar{X} + 0,5s$
25	0,00000	2,60756	zero	$\bar{X} + 1s$
26	0,00002	2,60756	$\bar{X}$	$\bar{X} + 1s$
27	1,30379	2,60756	$\bar{X} + 0,5s$	$\bar{X} + 1s$
28	2,60756	2,60756	$\bar{X} + 1s$	$\bar{X} + 1s$
29	-1,30375	2,60756	$\bar{X} - 0,5s$	$\bar{X} + 1s$
30	-2,60752	2,60756	$\bar{X} - 1s$	$\bar{X} + 1s$
31	-3,91129	2,60756	$\bar{X} - 1,5s$	$\bar{X} + 1s$
32	-5,21506	2,60756	$\bar{X} - 2s$	$\bar{X} + 1s$
33	-6,51883	2,60756	$\bar{X} - 2,5s$	$\bar{X} + 1s$
34	-7,82260	2,60756	$\bar{X} - 3s$	$\bar{X} + 1s$
35	0,00000	3,91133	zero	$\bar{X} + 1,5s$
36	0,00002	3,91133	$\bar{X}$	$\bar{X} + 1,5s$
37	1,30379	3,91133	$\bar{X} + 0,5s$	$\bar{X} + 1,5s$
38	2,60756	3,91133	$\bar{X} + 1s$	$\bar{X} + 1,5s$
39	3,91133	3,91133	$\bar{X} + 1,5s$	$\bar{X} + 1,5s$
40	-1,30375	3,91133	$\bar{X} - 0,5s$	$\bar{X} + 1,5s$
41	-2,60752	3,91133	$\bar{X} - 1s$	$\bar{X} + 1,5s$
42	-3,91129	3,91133	$\bar{X} - 1,5s$	$\bar{X} + 1,5s$
43	-5,21506	3,91133	$\bar{X} - 2s$	$\bar{X} + 1,5s$
44	-6,51883	3,91133	$\bar{X} - 2,5s$	$\bar{X} + 1,5s$
45	-7,82260	3,91133	$\bar{X} - 3s$	$\bar{X} + 1,5s$
46	0,00000	5,21510	zero	$\bar{X} + 2s$
47	0,00002	5,21510	$\bar{X}$	$\bar{X} + 2s$
48	1,30379	5,21510	$\bar{X} + 0,5s$	$\bar{X} + 2s$
49	2,60756	5,21510	$\bar{X} + 1s$	$\bar{X} + 2s$
50	3,91133	5,21510	$\bar{X} + 1,5s$	$\bar{X} + 2s$
51	5,21510	5,21510	$\bar{X} + 2s$	$\bar{X} + 2s$
52	-1,30375	5,21510	$\bar{X} - 0,5s$	$\bar{X} + 2s$
53	-2,60752	5,21510	$\bar{X} - 1s$	$\bar{X} + 2s$

(continua na página seguinte)

TABELA A.5 - LIMITES INFERIOR E SUPERIOR - BBDC4

(continuação)

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
54	-3,91129	5,21510	$\bar{X} - 1,5s$	$\bar{X} + 2s$
55	-5,21506	5,21510	$\bar{X} - 2s$	$\bar{X} + 2s$
56	-6,51883	5,21510	$\bar{X} - 2,5s$	$\bar{X} + 2s$
57	-7,82260	5,21510	$\bar{X} - 3s$	$\bar{X} + 2s$
58	0,00000	6,51887	zero	$\bar{X} + 2,5s$
59	0,00002	6,51887	$\bar{X}$	$\bar{X} + 2,5s$
60	1,30379	6,51887	$\bar{X} + 0,5s$	$\bar{X} + 2,5s$
61	2,60756	6,51887	$\bar{X} + 1s$	$\bar{X} + 2,5s$
62	3,91133	6,51887	$\bar{X} + 1,5s$	$\bar{X} + 2,5s$
63	5,21510	6,51887	$\bar{X} + 2s$	$\bar{X} + 2,5s$
64	6,51887	6,51887	$\bar{X} + 2,5s$	$\bar{X} + 2,5s$
65	-1,30375	6,51887	-0,5s	$\bar{X} + 2,5s$
66	-2,60752	6,51887	$\bar{X} - 1s$	$\bar{X} + 2,5s$
67	-3,91129	6,51887	$\bar{X} - 1,5s$	$\bar{X} + 2,5s$
68	-5,21506	6,51887	$\bar{X} - 2s$	$\bar{X} + 2,5s$
69	-6,51883	6,51887	$\bar{X} - 2,5s$	$\bar{X} + 2,5s$
70	-7,82260	6,51887	$\bar{X} - 3s$	$\bar{X} + 2,5s$
71	0,00000	7,82264	zero	$\bar{X} + 3s$
72	0,00002	7,82264	$\bar{X}$	$\bar{X} + 3s$
73	1,30379	7,82264	$\bar{X} + 0,5s$	$\bar{X} + 3s$
74	2,60756	7,82264	$\bar{X} + 1s$	$\bar{X} + 3s$
75	3,91133	7,82264	$\bar{X} + 1,5s$	$\bar{X} + 3s$
76	5,21510	7,82264	$\bar{X} + 2s$	$\bar{X} + 3s$
77	6,51887	7,82264	$\bar{X} + 2,5s$	$\bar{X} + 3s$
78	7,82264	7,82264	$\bar{X} + 3s$	$\bar{X} + 3s$
79	-1,30375	7,82264	$\bar{X} - 0,5s$	$\bar{X} + 3s$
80	-2,60752	7,82264	$\bar{X} - 1s$	$\bar{X} + 3s$
81	-3,91129	7,82264	$\bar{X} - 1,5s$	$\bar{X} + 3s$
82	-5,21506	7,82264	$\bar{X} - 2s$	$\bar{X} + 3s$
83	-6,51883	7,82264	$\bar{X} - 2,5s$	$\bar{X} + 3s$
84	-7,82260	7,82264	$\bar{X} - 3s$	$\bar{X} + 3s$
85	-1,30375	-1,30375	$\bar{X} - 0,5s$	$\bar{X} - 0,5s$
86	-2,60752	-1,30375	$\bar{X} - 1s$	$\bar{X} - 0,5s$
87	-3,91129	-1,30375	$\bar{X} - 1,5s$	$\bar{X} - 0,5s$
88	-5,21506	-1,30375	$\bar{X} - 2s$	$\bar{X} - 0,5s$
89	-6,51883	-1,30375	$\bar{X} - 2,5s$	$\bar{X} - 0,5s$
90	-7,82260	-1,30375	$\bar{X} - 3s$	$\bar{X} - 0,5s$
91	-2,60752	-2,60752	$\bar{X} - 1s$	$\bar{X} - 1s$
92	-3,91129	-2,60752	$\bar{X} - 1,5s$	$\bar{X} - 1s$
93	-5,21506	-2,60752	$\bar{X} - 2s$	$\bar{X} - 1s$
94	-6,51883	-2,60752	$\bar{X} - 2,5s$	$\bar{X} - 1s$
95	-7,82260	-2,60752	$\bar{X} - 3s$	$\bar{X} - 1s$
96	-3,91129	-3,91129	$\bar{X} - 1,5s$	$\bar{X} - 1,5s$
97	-5,21506	-3,91129	$\bar{X} - 2s$	$\bar{X} - 1,5s$
98	-6,51883	-3,91129	$\bar{X} - 2,5s$	$\bar{X} - 1,5s$
99	-7,82260	-3,91129	$\bar{X} - 3s$	$\bar{X} - 1,5s$
100	-5,21506	-5,21506	$\bar{X} - 2s$	$\bar{X} - 2s$
101	-6,51883	-5,21506	$\bar{X} - 2,5s$	$\bar{X} - 2s$
102	-7,82260	-5,21506	$\bar{X} - 3s$	$\bar{X} - 2s$
103	-6,51883	-6,51883	$\bar{X} - 2,5s$	$\bar{X} - 2,5s$
104	-7,82260	-6,51883	$\bar{X} - 3s$	$\bar{X} - 2,5s$
105	-7,82260	-7,82260	$\bar{X} - 3s$	$\bar{X} - 3s$

TABELA A.6 - LIMITES INFERIOR E SUPERIOR - TSP4

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
1	0,00000	0,00000	zero	zero
2	-0,00159	0,00000	$\bar{X}$	zero
3	-1,98429	0,00000	$\bar{X} - 0,5s$	zero
4	-3,96698	0,00000	$\bar{X} - 1s$	zero
5	-5,94968	0,00000	$\bar{X} - 1,5s$	zero
6	-7,93237	0,00000	$\bar{X} - 2s$	zero
7	-9,91506	0,00000	$\bar{X} - 2,5s$	zero
8	-11,89776	0,00000	$\bar{X} - 3s$	zero
9	-0,00159	-0,00159	$\bar{X}$	$\bar{X}$
10	-1,98429	-0,00159	$\bar{X} - 0,5s$	$\bar{X}$
11	-3,96698	-0,00159	$\bar{X} - 1s$	$\bar{X}$
12	-5,94968	-0,00159	$\bar{X} - 1,5s$	$\bar{X}$
13	-7,93237	-0,00159	$\bar{X} - 2s$	$\bar{X}$
14	-9,91506	-0,00159	$\bar{X} - 2,5s$	$\bar{X}$
15	-11,89776	-0,00159	$\bar{X} - 3s$	$\bar{X}$
16	0,00000	1,98110	zero	$\bar{X} + 0,5s$
17	-0,00159	1,98110	$\bar{X}$	$\bar{X} + 0,5s$
18	1,98110	1,98110	$\bar{X} + 0,5s$	$\bar{X} + 0,5s$
19	-1,98429	1,98110	$\bar{X} - 0,5s$	$\bar{X} + 0,5s$
20	-3,96698	1,98110	$\bar{X} - 1s$	$\bar{X} + 0,5s$
21	-5,94968	1,98110	$\bar{X} - 1,5s$	$\bar{X} + 0,5s$
22	-7,93237	1,98110	$\bar{X} - 2s$	$\bar{X} + 0,5s$
23	-9,91506	1,98110	$\bar{X} - 2,5s$	$\bar{X} + 0,5s$
24	-11,89776	1,98110	$\bar{X} - 3s$	$\bar{X} + 0,5s$
25	0,00000	3,96379	zero	$\bar{X} + 1s$
26	-0,00159	3,96379	$\bar{X}$	$\bar{X} + 1s$
27	1,98110	3,96379	$\bar{X} + 0,5s$	$\bar{X} + 1s$
28	3,96379	3,96379	$\bar{X} + 1s$	$\bar{X} + 1s$
29	-1,98429	3,96379	$\bar{X} - 0,5s$	$\bar{X} + 1s$
30	-3,96698	3,96379	$\bar{X} - 1s$	$\bar{X} + 1s$
31	-5,94968	3,96379	$\bar{X} - 1,5s$	$\bar{X} + 1s$
32	-7,93237	3,96379	$\bar{X} - 2s$	$\bar{X} + 1s$
33	-9,91506	3,96379	$\bar{X} - 2,5s$	$\bar{X} + 1s$
34	-11,89776	3,96379	$\bar{X} - 3s$	$\bar{X} + 1s$
35	0,00000	5,94649	zero	$\bar{X} + 1,5s$
36	-0,00159	5,94649	$\bar{X}$	$\bar{X} + 1,5s$
37	1,98110	5,94649	$\bar{X} + 0,5s$	$\bar{X} + 1,5s$
38	3,96379	5,94649	$\bar{X} + 1s$	$\bar{X} + 1,5s$
39	5,94649	5,94649	$\bar{X} + 1,5s$	$\bar{X} + 1,5s$
40	-1,98429	5,94649	$\bar{X} - 0,5s$	$\bar{X} + 1,5s$
41	-3,96698	5,94649	$\bar{X} - 1s$	$\bar{X} + 1,5s$
42	-5,94968	5,94649	$\bar{X} - 1,5s$	$\bar{X} + 1,5s$
43	-7,93237	5,94649	$\bar{X} - 2s$	$\bar{X} + 1,5s$
44	-9,91506	5,94649	$\bar{X} - 2,5s$	$\bar{X} + 1,5s$
45	-11,89776	5,94649	$\bar{X} - 3s$	$\bar{X} + 1,5s$
46	0,00000	7,92918	zero	$\bar{X} + 2s$
47	-0,00159	7,92918	$\bar{X}$	$\bar{X} + 2s$
48	1,98110	7,92918	$\bar{X} + 0,5s$	$\bar{X} + 2s$
49	3,96379	7,92918	$\bar{X} + 1s$	$\bar{X} + 2s$
50	5,94649	7,92918	$\bar{X} + 1,5s$	$\bar{X} + 2s$
51	7,92918	7,92918	$\bar{X} + 2s$	$\bar{X} + 2s$
52	-1,98429	7,92918	$\bar{X} - 0,5s$	$\bar{X} + 2s$
53	-3,96698	7,92918	$\bar{X} - 1s$	$\bar{X} + 2s$

(continua na página seguinte)

TABELA A.6 - LIMITES INFERIOR E SUPERIOR - TSPP4

(continuação)

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
54	-5,94968	7,92918	$\bar{X} - 1,5s$	$\bar{X} + 2s$
55	-7,93237	7,92918	$\bar{X} - 2s$	$\bar{X} + 2s$
56	-9,91506	7,92918	$\bar{X} - 2,5s$	$\bar{X} + 2s$
57	-11,89776	7,92918	$\bar{X} - 3s$	$\bar{X} + 2s$
58	0,00000	9,91188	zero	$\bar{X} + 2,5s$
59	-0,00159	9,91188	$\bar{X}$	$\bar{X} + 2,5s$
60	1,98110	9,91188	$\bar{X} + 0,5s$	$\bar{X} + 2,5s$
61	3,96379	9,91188	$\bar{X} + 1s$	$\bar{X} + 2,5s$
62	5,94649	9,91188	$\bar{X} + 1,5s$	$\bar{X} + 2,5s$
63	7,92918	9,91188	$\bar{X} + 2s$	$\bar{X} + 2,5s$
64	9,91188	9,91188	$\bar{X} + 2,5s$	$\bar{X} + 2,5s$
65	-1,98429	9,91188	-0,5s	$\bar{X} + 2,5s$
66	-3,96698	9,91188	$\bar{X} - 1s$	$\bar{X} + 2,5s$
67	-5,94968	9,91188	$\bar{X} - 1,5s$	$\bar{X} + 2,5s$
68	-7,93237	9,91188	$\bar{X} - 2s$	$\bar{X} + 2,5s$
69	-9,91506	9,91188	$\bar{X} - 2,5s$	$\bar{X} + 2,5s$
70	-11,89776	9,91188	$\bar{X} - 3s$	$\bar{X} + 2,5s$
71	0,00000	11,89457	zero	$\bar{X} + 3s$
72	-0,00159	11,89457	$\bar{X}$	$\bar{X} + 3s$
73	1,98110	11,89457	$\bar{X} + 0,5s$	$\bar{X} + 3s$
74	3,96379	11,89457	$\bar{X} + 1s$	$\bar{X} + 3s$
75	5,94649	11,89457	$\bar{X} + 1,5s$	$\bar{X} + 3s$
76	7,92918	11,89457	$\bar{X} + 2s$	$\bar{X} + 3s$
77	9,91188	11,89457	$\bar{X} + 2,5s$	$\bar{X} + 3s$
78	11,89457	11,89457	$\bar{X} + 3s$	$\bar{X} + 3s$
79	-1,98429	11,89457	$\bar{X} - 0,5s$	$\bar{X} + 3s$
80	-3,96698	11,89457	$\bar{X} - 1s$	$\bar{X} + 3s$
81	-5,94968	11,89457	$\bar{X} - 1,5s$	$\bar{X} + 3s$
82	-7,93237	11,89457	$\bar{X} - 2s$	$\bar{X} + 3s$
83	-9,91506	11,89457	$\bar{X} - 2,5s$	$\bar{X} + 3s$
84	-11,89776	11,89457	$\bar{X} - 3s$	$\bar{X} + 3s$
85	-1,98429	-1,98429	$\bar{X} - 0,5s$	$\bar{X} - 0,5s$
86	-3,96698	-1,98429	$\bar{X} - 1s$	$\bar{X} - 0,5s$
87	-5,94968	-1,98429	$\bar{X} - 1,5s$	$\bar{X} - 0,5s$
88	-7,93237	-1,98429	$\bar{X} - 2s$	$\bar{X} - 0,5s$
89	-9,91506	-1,98429	$\bar{X} - 2,5s$	$\bar{X} - 0,5s$
90	-11,89776	-1,98429	$\bar{X} - 3s$	$\bar{X} - 0,5s$
91	-3,96698	-3,96698	$\bar{X} - 1s$	$\bar{X} - 1s$
92	-5,94968	-3,96698	$\bar{X} - 1,5s$	$\bar{X} - 1s$
93	-7,93237	-3,96698	$\bar{X} - 2s$	$\bar{X} - 1s$
94	-9,91506	-3,96698	$\bar{X} - 2,5s$	$\bar{X} - 1s$
95	-11,89776	-3,96698	$\bar{X} - 3s$	$\bar{X} - 1s$
96	-5,94968	-5,94968	$\bar{X} - 1,5s$	$\bar{X} - 1,5s$
97	-7,93237	-5,94968	$\bar{X} - 2s$	$\bar{X} - 1,5s$
98	-9,91506	-5,94968	$\bar{X} - 2,5s$	$\bar{X} - 1,5s$
99	-11,89776	-5,94968	$\bar{X} - 3s$	$\bar{X} - 1,5s$
100	-7,93237	-7,93237	$\bar{X} - 2s$	$\bar{X} - 2s$
101	-9,91506	-7,93237	$\bar{X} - 2,5s$	$\bar{X} - 2s$
102	-11,89776	-7,93237	$\bar{X} - 3s$	$\bar{X} - 2s$
103	-9,91506	-9,91506	$\bar{X} - 2,5s$	$\bar{X} - 2,5s$
104	-11,89776	-9,91506	$\bar{X} - 3s$	$\bar{X} - 2,5s$
105	-11,89776	-11,89776	$\bar{X} - 3s$	$\bar{X} - 3s$

TABELA A.7 - LIMITES INFERIOR E SUPERIOR - EBTP4

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
1	0,00000	0,00000	zero	zero
2	0,00000	0,00230	zero	$\bar{X}$
3	-2,14792	0,00000	$\bar{X} - 0,5s$	zero
4	-4,29814	0,00000	$\bar{X} - 1s$	zero
5	-6,44836	0,00000	$\bar{X} - 1,5s$	zero
6	-8,59858	0,00000	$\bar{X} - 2s$	zero
7	-10,74880	0,00000	$\bar{X} - 2,5s$	zero
8	-12,89902	0,00000	$\bar{X} - 3s$	zero
9	0,00230	0,00230	$\bar{X}$	$\bar{X}$
10	-2,14792	0,00230	$\bar{X} - 0,5s$	$\bar{X}$
11	-4,29814	0,00230	$\bar{X} - 1s$	$\bar{X}$
12	-6,44836	0,00230	$\bar{X} - 1,5s$	$\bar{X}$
13	-8,59858	0,00230	$\bar{X} - 2s$	$\bar{X}$
14	-10,74880	0,00230	$\bar{X} - 2,5s$	$\bar{X}$
15	-12,89902	0,00230	$\bar{X} - 3s$	$\bar{X}$
16	0,00000	2,15252	zero	$\bar{X} + 0,5s$
17	0,00230	2,15252	$\bar{X}$	$\bar{X} + 0,5s$
18	2,15252	2,15252	$\bar{X} + 0,5s$	$\bar{X} + 0,5s$
19	-2,14792	2,15252	$\bar{X} - 0,5s$	$\bar{X} + 0,5s$
20	-4,29814	2,15252	$\bar{X} - 1s$	$\bar{X} + 0,5s$
21	-6,44836	2,15252	$\bar{X} - 1,5s$	$\bar{X} + 0,5s$
22	-8,59858	2,15252	$\bar{X} - 2s$	$\bar{X} + 0,5s$
23	-10,74880	2,15252	$\bar{X} - 2,5s$	$\bar{X} + 0,5s$
24	-12,89902	2,15252	$\bar{X} - 3s$	$\bar{X} + 0,5s$
25	0,00000	4,30274	zero	$\bar{X} + 1s$
26	0,00230	4,30274	$\bar{X}$	$\bar{X} + 1s$
27	2,15252	4,30274	$\bar{X} + 0,5s$	$\bar{X} + 1s$
28	4,30274	4,30274	$\bar{X} + 1s$	$\bar{X} + 1s$
29	-2,14792	4,30274	$\bar{X} - 0,5s$	$\bar{X} + 1s$
30	-4,29814	4,30274	$\bar{X} - 1s$	$\bar{X} + 1s$
31	-6,44836	4,30274	$\bar{X} - 1,5s$	$\bar{X} + 1s$
32	-8,59858	4,30274	$\bar{X} - 2s$	$\bar{X} + 1s$
33	-10,74880	4,30274	$\bar{X} - 2,5s$	$\bar{X} + 1s$
34	-12,89902	4,30274	$\bar{X} - 3s$	$\bar{X} + 1s$
35	0,00000	6,45296	zero	$\bar{X} + 1,5s$
36	0,00230	6,45296	$\bar{X}$	$\bar{X} + 1,5s$
37	2,15252	6,45296	$\bar{X} + 0,5s$	$\bar{X} + 1,5s$
38	4,30274	6,45296	$\bar{X} + 1s$	$\bar{X} + 1,5s$
39	6,45296	6,45296	$\bar{X} + 1,5s$	$\bar{X} + 1,5s$
40	-2,14792	6,45296	$\bar{X} - 0,5s$	$\bar{X} + 1,5s$
41	-4,29814	6,45296	$\bar{X} - 1s$	$\bar{X} + 1,5s$
42	-6,44836	6,45296	$\bar{X} - 1,5s$	$\bar{X} + 1,5s$
43	-8,59858	6,45296	$\bar{X} - 2s$	$\bar{X} + 1,5s$
44	-10,74880	6,45296	$\bar{X} - 2,5s$	$\bar{X} + 1,5s$
45	-12,89902	6,45296	$\bar{X} - 3s$	$\bar{X} + 1,5s$
46	0,00000	8,60317	zero	$\bar{X} + 2s$
47	0,00230	8,60317	$\bar{X}$	$\bar{X} + 2s$
48	2,15252	8,60317	$\bar{X} + 0,5s$	$\bar{X} + 2s$
49	4,30274	8,60317	$\bar{X} + 1s$	$\bar{X} + 2s$
50	6,45296	8,60317	$\bar{X} + 1,5s$	$\bar{X} + 2s$
51	8,60317	8,60317	$\bar{X} + 2s$	$\bar{X} + 2s$
52	-2,14792	8,60317	$\bar{X} - 0,5s$	$\bar{X} + 2s$
53	-4,29814	8,60317	$\bar{X} - 1s$	$\bar{X} + 2s$

(continua na página seguinte)



TABELA A.7 - LIMITES INFERIOR E SUPERIOR - EBTP4

(continuação)

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
54	-6,44836	8,60317	$\bar{X} - 1,5s$	$\bar{X} + 2s$
55	-8,59858	8,60317	$\bar{X} - 2s$	$\bar{X} + 2s$
56	-10,74880	8,60317	$\bar{X} - 2,5s$	$\bar{X} + 2s$
57	-12,89902	8,60317	$\bar{X} - 3s$	$\bar{X} + 2s$
58	0,00000	10,75339	zero	$\bar{X} + 2,5s$
59	0,00230	10,75339	$\bar{X}$	$\bar{X} + 2,5s$
60	2,15252	10,75339	$\bar{X} + 0,5s$	$\bar{X} + 2,5s$
61	4,30274	10,75339	$\bar{X} + 1s$	$\bar{X} + 2,5s$
62	6,45296	10,75339	$\bar{X} + 1,5s$	$\bar{X} + 2,5s$
63	8,60317	10,75339	$\bar{X} + 2s$	$\bar{X} + 2,5s$
64	10,75339	10,75339	$\bar{X} + 2,5s$	$\bar{X} + 2,5s$
65	-2,14792	10,75339	$-0,5s$	$\bar{X} + 2,5s$
66	-4,29814	10,75339	$\bar{X} - 1s$	$\bar{X} + 2,5s$
67	-6,44836	10,75339	$\bar{X} - 1,5s$	$\bar{X} + 2,5s$
68	-8,59858	10,75339	$\bar{X} - 2s$	$\bar{X} + 2,5s$
69	-10,74880	10,75339	$\bar{X} - 2,5s$	$\bar{X} + 2,5s$
70	-12,89902	10,75339	$\bar{X} - 3s$	$\bar{X} + 2,5s$
71	0,00000	12,90361	zero	$\bar{X} + 3s$
72	0,00230	12,90361	$\bar{X}$	$\bar{X} + 3s$
73	2,15252	12,90361	$\bar{X} + 0,5s$	$\bar{X} + 3s$
74	4,30274	12,90361	$\bar{X} + 1s$	$\bar{X} + 3s$
75	6,45296	12,90361	$\bar{X} + 1,5s$	$\bar{X} + 3s$
76	8,60317	12,90361	$\bar{X} + 2s$	$\bar{X} + 3s$
77	10,75339	12,90361	$\bar{X} + 2,5s$	$\bar{X} + 3s$
78	12,90361	12,90361	$\bar{X} + 3s$	$\bar{X} + 3s$
79	-2,14792	12,90361	$\bar{X} - 0,5s$	$\bar{X} + 3s$
80	-4,29814	12,90361	$\bar{X} - 1s$	$\bar{X} + 3s$
81	-6,44836	12,90361	$\bar{X} - 1,5s$	$\bar{X} + 3s$
82	-8,59858	12,90361	$\bar{X} - 2s$	$\bar{X} + 3s$
83	-10,74880	12,90361	$\bar{X} - 2,5s$	$\bar{X} + 3s$
84	-12,89902	12,90361	$\bar{X} - 3s$	$\bar{X} + 3s$
85	-2,14792	-2,14792	$\bar{X} - 0,5s$	$\bar{X} - 0,5s$
86	-4,29814	-2,14792	$\bar{X} - 1s$	$\bar{X} - 0,5s$
87	-6,44836	-2,14792	$\bar{X} - 1,5s$	$\bar{X} - 0,5s$
88	-8,59858	-2,14792	$\bar{X} - 2s$	$\bar{X} - 0,5s$
89	-10,74880	-2,14792	$\bar{X} - 2,5s$	$\bar{X} - 0,5s$
90	-12,89902	-2,14792	$\bar{X} - 3s$	$\bar{X} - 0,5s$
91	-4,29814	-4,29814	$\bar{X} - 1s$	$\bar{X} - 1s$
92	-6,44836	-4,29814	$\bar{X} - 1,5s$	$\bar{X} - 1s$
93	-8,59858	-4,29814	$\bar{X} - 2s$	$\bar{X} - 1s$
94	-10,74880	-4,29814	$\bar{X} - 2,5s$	$\bar{X} - 1s$
95	-12,89902	-4,29814	$\bar{X} - 3s$	$\bar{X} - 1s$
96	-6,44836	-6,44836	$\bar{X} - 1,5s$	$\bar{X} - 1,5s$
97	-8,59858	-6,44836	$\bar{X} - 2s$	$\bar{X} - 1,5s$
98	-10,74880	-6,44836	$\bar{X} - 2,5s$	$\bar{X} - 1,5s$
99	-12,89902	-6,44836	$\bar{X} - 3s$	$\bar{X} - 1,5s$
100	-8,59858	-8,59858	$\bar{X} - 2s$	$\bar{X} - 2s$
101	-10,74880	-8,59858	$\bar{X} - 2,5s$	$\bar{X} - 2s$
102	-12,89902	-8,59858	$\bar{X} - 3s$	$\bar{X} - 2s$
103	-10,74880	-10,74880	$\bar{X} - 2,5s$	$\bar{X} - 2,5s$
104	-12,89902	-10,74880	$\bar{X} - 3s$	$\bar{X} - 2,5s$
105	-12,89902	-12,89902	$\bar{X} - 3s$	$\bar{X} - 3s$

TABELA A.8 - LIMITES INFERIOR E SUPERIOR - PETR3

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
1	0,00000	0,00000	zero	zero
2	-0,00086	0,00000	$\bar{X}$	zero
3	-1,54628	0,00000	$\bar{X} - 0,5s$	zero
4	-3,09170	0,00000	$\bar{X} - 1s$	zero
5	-4,63712	0,00000	$\bar{X} - 1,5s$	zero
6	-6,18254	0,00000	$\bar{X} - 2s$	zero
7	-7,72796	0,00000	$\bar{X} - 2,5s$	zero
8	-9,27338	0,00000	$\bar{X} - 3s$	zero
9	-0,00086	-0,00086	$\bar{X}$	$\bar{X}$
10	-1,54628	-0,00086	$\bar{X} - 0,5s$	$\bar{X}$
11	-3,09170	-0,00086	$\bar{X} - 1s$	$\bar{X}$
12	-4,63712	-0,00086	$\bar{X} - 1,5s$	$\bar{X}$
13	-6,18254	-0,00086	$\bar{X} - 2s$	$\bar{X}$
14	-7,72796	-0,00086	$\bar{X} - 2,5s$	$\bar{X}$
15	-9,27338	-0,00086	$\bar{X} - 3s$	$\bar{X}$
16	0,00000	1,54456	zero	$\bar{X} + 0,5s$
17	-0,00086	1,54456	$\bar{X}$	$\bar{X} + 0,5s$
18	1,54456	1,54456	$\bar{X} + 0,5s$	$\bar{X} + 0,5s$
19	-1,54628	1,54456	$\bar{X} - 0,5s$	$\bar{X} + 0,5s$
20	-3,09170	1,54456	$\bar{X} - 1s$	$\bar{X} + 0,5s$
21	-4,63712	1,54456	$\bar{X} - 1,5s$	$\bar{X} + 0,5s$
22	-6,18254	1,54456	$\bar{X} - 2s$	$\bar{X} + 0,5s$
23	-7,72796	1,54456	$\bar{X} - 2,5s$	$\bar{X} + 0,5s$
24	-9,27338	1,54456	$\bar{X} - 3s$	$\bar{X} + 0,5s$
25	0,00000	3,08997	zero	$\bar{X} + 1s$
26	-0,00086	3,08997	$\bar{X}$	$\bar{X} + 1s$
27	1,54456	3,08997	$\bar{X} + 0,5s$	$\bar{X} + 1s$
28	3,08997	3,08997	$\bar{X} + 1s$	$\bar{X} + 1s$
29	-1,54628	3,08997	$\bar{X} - 0,5s$	$\bar{X} + 1s$
30	-3,09170	3,08997	$\bar{X} - 1s$	$\bar{X} + 1s$
31	-4,63712	3,08997	$\bar{X} - 1,5s$	$\bar{X} + 1s$
32	-6,18254	3,08997	$\bar{X} - 2s$	$\bar{X} + 1s$
33	-7,72796	3,08997	$\bar{X} - 2,5s$	$\bar{X} + 1s$
34	-9,27338	3,08997	$\bar{X} - 3s$	$\bar{X} + 1s$
35	0,00000	4,63539	zero	$\bar{X} + 1,5s$
36	-0,00086	4,63539	$\bar{X}$	$\bar{X} + 1,5s$
37	1,54456	4,63539	$\bar{X} + 0,5s$	$\bar{X} + 1,5s$
38	3,08997	4,63539	$\bar{X} + 1s$	$\bar{X} + 1,5s$
39	4,63539	4,63539	$\bar{X} + 1,5s$	$\bar{X} + 1,5s$
40	-1,54628	4,63539	$\bar{X} - 0,5s$	$\bar{X} + 1,5s$
41	-3,09170	4,63539	$\bar{X} - 1s$	$\bar{X} + 1,5s$
42	-4,63712	4,63539	$\bar{X} - 1,5s$	$\bar{X} + 1,5s$
43	-6,18254	4,63539	$\bar{X} - 2s$	$\bar{X} + 1,5s$
44	-7,72796	4,63539	$\bar{X} - 2,5s$	$\bar{X} + 1,5s$
45	-9,27338	4,63539	$\bar{X} - 3s$	$\bar{X} + 1,5s$
46	0,00000	6,18081	zero	$\bar{X} + 2s$
47	-0,00086	6,18081	$\bar{X}$	$\bar{X} + 2s$
48	1,54456	6,18081	$\bar{X} + 0,5s$	$\bar{X} + 2s$
49	3,08997	6,18081	$\bar{X} + 1s$	$\bar{X} + 2s$
50	4,63539	6,18081	$\bar{X} + 1,5s$	$\bar{X} + 2s$
51	6,18081	6,18081	$\bar{X} + 2s$	$\bar{X} + 2s$
52	-1,54628	6,18081	$\bar{X} - 0,5s$	$\bar{X} + 2s$
53	-3,09170	6,18081	$\bar{X} - 1s$	$\bar{X} + 2s$

(continua na página seguinte)

TABELA A.8 - LIMITES INFERIOR E SUPERIOR - PETR3

(continuação)

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
54	-4,63712	6,18081	$\bar{X} - 1,5s$	$\bar{X} + 2s$
55	-6,18254	6,18081	$\bar{X} - 2s$	$\bar{X} + 2s$
56	-7,72796	6,18081	$\bar{X} - 2,5s$	$\bar{X} + 2s$
57	-9,27338	6,18081	$\bar{X} - 3s$	$\bar{X} + 2s$
58	0,00000	7,72623	zero	$\bar{X} + 2,5s$
59	-0,00086	7,72623	$\bar{X}$	$\bar{X} + 2,5s$
60	1,54456	7,72623	$\bar{X} + 0,5s$	$\bar{X} + 2,5s$
61	3,08997	7,72623	$\bar{X} + 1s$	$\bar{X} + 2,5s$
62	4,63539	7,72623	$\bar{X} + 1,5s$	$\bar{X} + 2,5s$
63	6,18081	7,72623	$\bar{X} + 2s$	$\bar{X} + 2,5s$
64	7,72623	7,72623	$\bar{X} + 2,5s$	$\bar{X} + 2,5s$
65	-1,54628	7,72623	$-0,5s$	$\bar{X} + 2,5s$
66	-3,09170	7,72623	$\bar{X} - 1s$	$\bar{X} + 2,5s$
67	-4,63712	7,72623	$\bar{X} - 1,5s$	$\bar{X} + 2,5s$
68	-6,18254	7,72623	$\bar{X} - 2s$	$\bar{X} + 2,5s$
69	-7,72796	7,72623	$\bar{X} - 2,5s$	$\bar{X} + 2,5s$
70	-9,27338	7,72623	$\bar{X} - 3s$	$\bar{X} + 2,5s$
71	0,00000	9,27165	zero	$\bar{X} + 3s$
72	-0,00086	9,27165	$\bar{X}$	$\bar{X} + 3s$
73	1,54456	9,27165	$\bar{X} + 0,5s$	$\bar{X} + 3s$
74	3,08997	9,27165	$\bar{X} + 1s$	$\bar{X} + 3s$
75	4,63539	9,27165	$\bar{X} + 1,5s$	$\bar{X} + 3s$
76	6,18081	9,27165	$\bar{X} + 2s$	$\bar{X} + 3s$
77	7,72623	9,27165	$\bar{X} + 2,5s$	$\bar{X} + 3s$
78	9,27165	9,27165	$\bar{X} + 3s$	$\bar{X} + 3s$
79	-1,54628	9,27165	$\bar{X} - 0,5s$	$\bar{X} + 3s$
80	-3,09170	9,27165	$\bar{X} - 1s$	$\bar{X} + 3s$
81	-4,63712	9,27165	$\bar{X} - 1,5s$	$\bar{X} + 3s$
82	-6,18254	9,27165	$\bar{X} - 2s$	$\bar{X} + 3s$
83	-7,72796	9,27165	$\bar{X} - 2,5s$	$\bar{X} + 3s$
84	-9,27338	9,27165	$\bar{X} - 3s$	$\bar{X} + 3s$
85	-1,54628	-1,54628	$\bar{X} - 0,5s$	$\bar{X} - 0,5s$
86	-3,09170	-1,54628	$\bar{X} - 1s$	$\bar{X} - 0,5s$
87	-4,63712	-1,54628	$\bar{X} - 1,5s$	$\bar{X} - 0,5s$
88	-6,18254	-1,54628	$\bar{X} - 2s$	$\bar{X} - 0,5s$
89	-7,72796	-1,54628	$\bar{X} - 2,5s$	$\bar{X} - 0,5s$
90	-9,27338	-1,54628	$\bar{X} - 3s$	$\bar{X} - 0,5s$
91	-3,09170	-3,09170	$\bar{X} - 1s$	$\bar{X} - 1s$
92	-4,63712	-3,09170	$\bar{X} - 1,5s$	$\bar{X} - 1s$
93	-6,18254	-3,09170	$\bar{X} - 2s$	$\bar{X} - 1s$
94	-7,72796	-3,09170	$\bar{X} - 2,5s$	$\bar{X} - 1s$
95	-9,27338	-3,09170	$\bar{X} - 3s$	$\bar{X} - 1s$
96	-4,63712	-4,63712	$\bar{X} - 1,5s$	$\bar{X} - 1,5s$
97	-6,18254	-4,63712	$\bar{X} - 2s$	$\bar{X} - 1,5s$
98	-7,72796	-4,63712	$\bar{X} - 2,5s$	$\bar{X} - 1,5s$
99	-9,27338	-4,63712	$\bar{X} - 3s$	$\bar{X} - 1,5s$
100	-6,18254	-6,18254	$\bar{X} - 2s$	$\bar{X} - 2s$
101	-7,72796	-6,18254	$\bar{X} - 2,5s$	$\bar{X} - 2s$
102	-9,27338	-6,18254	$\bar{X} - 3s$	$\bar{X} - 2s$
103	-7,72796	-7,72796	$\bar{X} - 2,5s$	$\bar{X} - 2,5s$
104	-9,27338	-7,72796	$\bar{X} - 3s$	$\bar{X} - 2,5s$
105	-9,27338	-9,27338	$\bar{X} - 3s$	$\bar{X} - 3s$

TABELA A.9 - LIMITES INFERIOR E SUPERIOR - ITAU4

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
1	0,00000	0,00000	zero	zero
2	-0,00098	0,00000	$\bar{X}$	zero
3	-1,28335	0,00000	$\bar{X} - 0,5s$	zero
4	-2,56571	0,00000	$\bar{X} - 1s$	zero
5	-3,84808	0,00000	$\bar{X} - 1,5s$	zero
6	-5,13045	0,00000	$\bar{X} - 2s$	zero
7	-6,41282	0,00000	$\bar{X} - 2,5s$	zero
8	-7,69518	0,00000	$\bar{X} - 3s$	zero
9	-0,00098	-0,00098	$\bar{X}$	$\bar{X}$
10	-1,28335	-0,00098	$\bar{X} - 0,5s$	$\bar{X}$
11	-2,56571	-0,00098	$\bar{X} - 1s$	$\bar{X}$
12	-3,84808	-0,00098	$\bar{X} - 1,5s$	$\bar{X}$
13	-5,13045	-0,00098	$\bar{X} - 2s$	$\bar{X}$
14	-6,41282	-0,00098	$\bar{X} - 2,5s$	$\bar{X}$
15	-7,69518	-0,00098	$\bar{X} - 3s$	$\bar{X}$
16	0,00000	1,28139	zero	$\bar{X} + 0,5s$
17	-0,00098	1,28139	$\bar{X}$	$\bar{X} + 0,5s$
18	1,28139	1,28139	$\bar{X} + 0,5s$	$\bar{X} + 0,5s$
19	-1,28335	1,28139	$\bar{X} - 0,5s$	$\bar{X} + 0,5s$
20	-2,56571	1,28139	$\bar{X} - 1s$	$\bar{X} + 0,5s$
21	-3,84808	1,28139	$\bar{X} - 1,5s$	$\bar{X} + 0,5s$
22	-5,13045	1,28139	$\bar{X} - 2s$	$\bar{X} + 0,5s$
23	-6,41282	1,28139	$\bar{X} - 2,5s$	$\bar{X} + 0,5s$
24	-7,69518	1,28139	$\bar{X} - 3s$	$\bar{X} + 0,5s$
25	0,00000	2,56376	zero	$\bar{X} + 1s$
26	-0,00098	2,56376	$\bar{X}$	$\bar{X} + 1s$
27	1,28139	2,56376	$\bar{X} + 0,5s$	$\bar{X} + 1s$
28	2,56376	2,56376	$\bar{X} + 1s$	$\bar{X} + 1s$
29	-1,28335	2,56376	$\bar{X} - 0,5s$	$\bar{X} + 1s$
30	-2,56571	2,56376	$\bar{X} - 1s$	$\bar{X} + 1s$
31	-3,84808	2,56376	$\bar{X} - 1,5s$	$\bar{X} + 1s$
32	-5,13045	2,56376	$\bar{X} - 2s$	$\bar{X} + 1s$
33	-6,41282	2,56376	$\bar{X} - 2,5s$	$\bar{X} + 1s$
34	-7,69518	2,56376	$\bar{X} - 3s$	$\bar{X} + 1s$
35	0,00000	3,84612	zero	$\bar{X} + 1,5s$
36	-0,00098	3,84612	$\bar{X}$	$\bar{X} + 1,5s$
37	1,28139	3,84612	$\bar{X} + 0,5s$	$\bar{X} + 1,5s$
38	2,56376	3,84612	$\bar{X} + 1s$	$\bar{X} + 1,5s$
39	3,84612	3,84612	$\bar{X} + 1,5s$	$\bar{X} + 1,5s$
40	-1,28335	3,84612	$\bar{X} - 0,5s$	$\bar{X} + 1,5s$
41	-2,56571	3,84612	$\bar{X} - 1s$	$\bar{X} + 1,5s$
42	-3,84808	3,84612	$\bar{X} - 1,5s$	$\bar{X} + 1,5s$
43	-5,13045	3,84612	$\bar{X} - 2s$	$\bar{X} + 1,5s$
44	-6,41282	3,84612	$\bar{X} - 2,5s$	$\bar{X} + 1,5s$
45	-7,69518	3,84612	$\bar{X} - 3s$	$\bar{X} + 1,5s$
46	0,00000	5,12849	zero	$\bar{X} + 2s$
47	-0,00098	5,12849	$\bar{X}$	$\bar{X} + 2s$
48	1,28139	5,12849	$\bar{X} + 0,5s$	$\bar{X} + 2s$
49	2,56376	5,12849	$\bar{X} + 1s$	$\bar{X} + 2s$
50	3,84612	5,12849	$\bar{X} + 1,5s$	$\bar{X} + 2s$
51	5,12849	5,12849	$\bar{X} + 2s$	$\bar{X} + 2s$
52	-1,28335	5,12849	$\bar{X} - 0,5s$	$\bar{X} + 2s$
53	-2,56571	5,12849	$\bar{X} - 1s$	$\bar{X} + 2s$

(continua na página seguinte)

TABELA A.9 - LIMITES INFERIOR E SUPERIOR - ITAU4

(continuação)

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
54	-3,84808	5,12849	$\bar{X} - 1,5s$	$\bar{X} + 2s$
55	-5,13045	5,12849	$\bar{X} - 2s$	$\bar{X} + 2s$
56	-6,41282	5,12849	$\bar{X} - 2,5s$	$\bar{X} + 2s$
57	-7,69518	5,12849	$\bar{X} - 3s$	$\bar{X} + 2s$
58	0,00000	6,41086	zero	$\bar{X} + 2,5s$
59	-0,00098	6,41086	$\bar{X}$	$\bar{X} + 2,5s$
60	1,28139	6,41086	$\bar{X} + 0,5s$	$\bar{X} + 2,5s$
61	2,56376	6,41086	$\bar{X} + 1s$	$\bar{X} + 2,5s$
62	3,84612	6,41086	$\bar{X} + 1,5s$	$\bar{X} + 2,5s$
63	5,12849	6,41086	$\bar{X} + 2s$	$\bar{X} + 2,5s$
64	6,41086	6,41086	$\bar{X} + 2,5s$	$\bar{X} + 2,5s$
65	-1,28335	6,41086	-0,5s	$\bar{X} + 2,5s$
66	-2,56571	6,41086	$\bar{X} - 1s$	$\bar{X} + 2,5s$
67	-3,84808	6,41086	$\bar{X} - 1,5s$	$\bar{X} + 2,5s$
68	-5,13045	6,41086	$\bar{X} - 2s$	$\bar{X} + 2,5s$
69	-6,41282	6,41086	$\bar{X} - 2,5s$	$\bar{X} + 2,5s$
70	-7,69518	6,41086	$\bar{X} - 3s$	$\bar{X} + 2,5s$
71	0,00000	7,69323	zero	$\bar{X} + 3s$
72	-0,00098	7,69323	$\bar{X}$	$\bar{X} + 3s$
73	1,28139	7,69323	$\bar{X} + 0,5s$	$\bar{X} + 3s$
74	2,56376	7,69323	$\bar{X} + 1s$	$\bar{X} + 3s$
75	3,84612	7,69323	$\bar{X} + 1,5s$	$\bar{X} + 3s$
76	5,12849	7,69323	$\bar{X} + 2s$	$\bar{X} + 3s$
77	6,41086	7,69323	$\bar{X} + 2,5s$	$\bar{X} + 3s$
78	7,69323	7,69323	$\bar{X} + 3s$	$\bar{X} + 3s$
79	-1,28335	7,69323	$\bar{X} - 0,5s$	$\bar{X} + 3s$
80	-2,56571	7,69323	$\bar{X} - 1s$	$\bar{X} + 3s$
81	-3,84808	7,69323	$\bar{X} - 1,5s$	$\bar{X} + 3s$
82	-5,13045	7,69323	$\bar{X} - 2s$	$\bar{X} + 3s$
83	-6,41282	7,69323	$\bar{X} - 2,5s$	$\bar{X} + 3s$
84	-7,69518	7,69323	$\bar{X} - 3s$	$\bar{X} + 3s$
85	-1,28335	-1,28335	$\bar{X} - 0,5s$	$\bar{X} - 0,5s$
86	-2,56571	-1,28335	$\bar{X} - 1s$	$\bar{X} - 0,5s$
87	-3,84808	-1,28335	$\bar{X} - 1,5s$	$\bar{X} - 0,5s$
88	-5,13045	-1,28335	$\bar{X} - 2s$	$\bar{X} - 0,5s$
89	-6,41282	-1,28335	$\bar{X} - 2,5s$	$\bar{X} - 0,5s$
90	-7,69518	-1,28335	$\bar{X} - 3s$	$\bar{X} - 0,5s$
91	-2,56571	-2,56571	$\bar{X} - 1s$	$\bar{X} - 1s$
92	-3,84808	-2,56571	$\bar{X} - 1,5s$	$\bar{X} - 1s$
93	-5,13045	-2,56571	$\bar{X} - 2s$	$\bar{X} - 1s$
94	-6,41282	-2,56571	$\bar{X} - 2,5s$	$\bar{X} - 1s$
95	-7,69518	-2,56571	$\bar{X} - 3s$	$\bar{X} - 1s$
96	-3,84808	-3,84808	$\bar{X} - 1,5s$	$\bar{X} - 1,5s$
97	-5,13045	-3,84808	$\bar{X} - 2s$	$\bar{X} - 1,5s$
98	-6,41282	-3,84808	$\bar{X} - 2,5s$	$\bar{X} - 1,5s$
99	-7,69518	-3,84808	$\bar{X} - 3s$	$\bar{X} - 1,5s$
100	-5,13045	-5,13045	$\bar{X} - 2s$	$\bar{X} - 2s$
101	-6,41282	-5,13045	$\bar{X} - 2,5s$	$\bar{X} - 2s$
102	-7,69518	-5,13045	$\bar{X} - 3s$	$\bar{X} - 2s$
103	-6,41282	-6,41282	$\bar{X} - 2,5s$	$\bar{X} - 2,5s$
104	-7,69518	-6,41282	$\bar{X} - 3s$	$\bar{X} - 2,5s$
105	-7,69518	-7,69518	$\bar{X} - 3s$	$\bar{X} - 3s$

TABELA A.10 - LIMITES INFERIOR E SUPERIOR - ELET6

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
1	0,00000	0,00000	zero	zero
2	0,00000	0,00046	zero	$\bar{X}$
3	-1,66973	0,00000	$\bar{X} - 0,5s$	zero
4	-3,33991	0,00000	$\bar{X} - 1s$	zero
5	-5,01009	0,00000	$\bar{X} - 1,5s$	zero
6	-6,68027	0,00000	$\bar{X} - 2s$	zero
7	-8,35046	0,00000	$\bar{X} - 2,5s$	zero
8	-10,02064	0,00000	$\bar{X} - 3s$	zero
9	0,00046	0,00046	$\bar{X}$	$\bar{X}$
10	-1,66973	0,00046	$\bar{X} - 0,5s$	$\bar{X}$
11	-3,33991	0,00046	$\bar{X} - 1s$	$\bar{X}$
12	-5,01009	0,00046	$\bar{X} - 1,5s$	$\bar{X}$
13	-6,68027	0,00046	$\bar{X} - 2s$	$\bar{X}$
14	-8,35046	0,00046	$\bar{X} - 2,5s$	$\bar{X}$
15	-10,02064	0,00046	$\bar{X} - 3s$	$\bar{X}$
16	0,00000	1,67064	zero	$\bar{X} + 0,5s$
17	0,00046	1,67064	$\bar{X}$	$\bar{X} + 0,5s$
18	1,67064	1,67064	$\bar{X} + 0,5s$	$\bar{X} + 0,5s$
19	-1,66973	1,67064	$\bar{X} - 0,5s$	$\bar{X} + 0,5s$
20	-3,33991	1,67064	$\bar{X} - 1s$	$\bar{X} + 0,5s$
21	-5,01009	1,67064	$\bar{X} - 1,5s$	$\bar{X} + 0,5s$
22	-6,68027	1,67064	$\bar{X} - 2s$	$\bar{X} + 0,5s$
23	-8,35046	1,67064	$\bar{X} - 2,5s$	$\bar{X} + 0,5s$
24	-10,02064	1,67064	$\bar{X} - 3s$	$\bar{X} + 0,5s$
25	0,00000	3,34082	zero	$\bar{X} + 1s$
26	0,00046	3,34082	$\bar{X}$	$\bar{X} + 1s$
27	1,67064	3,34082	$\bar{X} + 0,5s$	$\bar{X} + 1s$
28	3,34082	3,34082	$\bar{X} + 1s$	$\bar{X} + 1s$
29	-1,66973	3,34082	$\bar{X} - 0,5s$	$\bar{X} + 1s$
30	-3,33991	3,34082	$\bar{X} - 1s$	$\bar{X} + 1s$
31	-5,01009	3,34082	$\bar{X} - 1,5s$	$\bar{X} + 1s$
32	-6,68027	3,34082	$\bar{X} - 2s$	$\bar{X} + 1s$
33	-8,35046	3,34082	$\bar{X} - 2,5s$	$\bar{X} + 1s$
34	-10,02064	3,34082	$\bar{X} - 3s$	$\bar{X} + 1s$
35	0,00000	5,01101	zero	$\bar{X} + 1,5s$
36	0,00046	5,01101	$\bar{X}$	$\bar{X} + 1,5s$
37	1,67064	5,01101	$\bar{X} + 0,5s$	$\bar{X} + 1,5s$
38	3,34082	5,01101	$\bar{X} + 1s$	$\bar{X} + 1,5s$
39	5,01101	5,01101	$\bar{X} + 1,5s$	$\bar{X} + 1,5s$
40	-1,66973	5,01101	$\bar{X} - 0,5s$	$\bar{X} + 1,5s$
41	-3,33991	5,01101	$\bar{X} - 1s$	$\bar{X} + 1,5s$
42	-5,01009	5,01101	$\bar{X} - 1,5s$	$\bar{X} + 1,5s$
43	-6,68027	5,01101	$\bar{X} - 2s$	$\bar{X} + 1,5s$
44	-8,35046	5,01101	$\bar{X} - 2,5s$	$\bar{X} + 1,5s$
45	-10,02064	5,01101	$\bar{X} - 3s$	$\bar{X} + 1,5s$
46	0,00000	6,68119	zero	$\bar{X} + 2s$
47	0,00046	6,68119	$\bar{X}$	$\bar{X} + 2s$
48	1,67064	6,68119	$\bar{X} + 0,5s$	$\bar{X} + 2s$
49	3,34082	6,68119	$\bar{X} + 1s$	$\bar{X} + 2s$
50	5,01101	6,68119	$\bar{X} + 1,5s$	$\bar{X} + 2s$
51	6,68119	6,68119	$\bar{X} + 2s$	$\bar{X} + 2s$
52	-1,66973	6,68119	$\bar{X} - 0,5s$	$\bar{X} + 2s$
53	-3,33991	6,68119	$\bar{X} - 1s$	$\bar{X} + 2s$

(continua na página seguinte)

TABELA A.10 - LIMITES INFERIOR E SUPERIOR - ELET6

(continuação)

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
54	-5,01009	6,68119	$\bar{X} - 1,5s$	$\bar{X} + 2s$
55	-6,68027	6,68119	$\bar{X} - 2s$	$\bar{X} + 2s$
56	-8,35046	6,68119	$\bar{X} - 2,5s$	$\bar{X} + 2s$
57	-10,02064	6,68119	$\bar{X} - 3s$	$\bar{X} + 2s$
58	0,00000	8,35137	zero	$\bar{X} + 2,5s$
59	0,00046	8,35137	$\bar{X}$	$\bar{X} + 2,5s$
60	1,67064	8,35137	$\bar{X} + 0,5s$	$\bar{X} + 2,5s$
61	3,34082	8,35137	$\bar{X} + 1s$	$\bar{X} + 2,5s$
62	5,01101	8,35137	$\bar{X} + 1,5s$	$\bar{X} + 2,5s$
63	6,68119	8,35137	$\bar{X} + 2s$	$\bar{X} + 2,5s$
64	8,35137	8,35137	$\bar{X} + 2,5s$	$\bar{X} + 2,5s$
65	-1,66973	8,35137	-0,5s	$\bar{X} + 2,5s$
66	-3,33991	8,35137	$\bar{X} - 1s$	$\bar{X} + 2,5s$
67	-5,01009	8,35137	$\bar{X} - 1,5s$	$\bar{X} + 2,5s$
68	-6,68027	8,35137	$\bar{X} - 2s$	$\bar{X} + 2,5s$
69	-8,35046	8,35137	$\bar{X} - 2,5s$	$\bar{X} + 2,5s$
70	-10,02064	8,35137	$\bar{X} - 3s$	$\bar{X} + 2,5s$
71	0,00000	10,02155	zero	$\bar{X} + 3s$
72	0,00046	10,02155	$\bar{X}$	$\bar{X} + 3s$
73	1,67064	10,02155	$\bar{X} + 0,5s$	$\bar{X} + 3s$
74	3,34082	10,02155	$\bar{X} + 1s$	$\bar{X} + 3s$
75	5,01101	10,02155	$\bar{X} + 1,5s$	$\bar{X} + 3s$
76	6,68119	10,02155	$\bar{X} + 2s$	$\bar{X} + 3s$
77	8,35137	10,02155	$\bar{X} + 2,5s$	$\bar{X} + 3s$
78	10,02155	10,02155	$\bar{X} + 3s$	$\bar{X} + 3s$
79	-1,66973	10,02155	$\bar{X} - 0,5s$	$\bar{X} + 3s$
80	-3,33991	10,02155	$\bar{X} - 1s$	$\bar{X} + 3s$
81	-5,01009	10,02155	$\bar{X} - 1,5s$	$\bar{X} + 3s$
82	-6,68027	10,02155	$\bar{X} - 2s$	$\bar{X} + 3s$
83	-8,35046	10,02155	$\bar{X} - 2,5s$	$\bar{X} + 3s$
84	-10,02064	10,02155	$\bar{X} - 3s$	$\bar{X} + 3s$
85	-1,66973	-1,66973	$\bar{X} - 0,5s$	$\bar{X} - 0,5s$
86	-3,33991	-1,66973	$\bar{X} - 1s$	$\bar{X} - 0,5s$
87	-5,01009	-1,66973	$\bar{X} - 1,5s$	$\bar{X} - 0,5s$
88	-6,68027	-1,66973	$\bar{X} - 2s$	$\bar{X} - 0,5s$
89	-8,35046	-1,66973	$\bar{X} - 2,5s$	$\bar{X} - 0,5s$
90	-10,02064	-1,66973	$\bar{X} - 3s$	$\bar{X} - 0,5s$
91	-3,33991	-3,33991	$\bar{X} - 1s$	$\bar{X} - 1s$
92	-5,01009	-3,33991	$\bar{X} - 1,5s$	$\bar{X} - 1s$
93	-6,68027	-3,33991	$\bar{X} - 2s$	$\bar{X} - 1s$
94	-8,35046	-3,33991	$\bar{X} - 2,5s$	$\bar{X} - 1s$
95	-10,02064	-3,33991	$\bar{X} - 3s$	$\bar{X} - 1s$
96	-5,01009	-5,01009	$\bar{X} - 1,5s$	$\bar{X} - 1,5s$
97	-6,68027	-5,01009	$\bar{X} - 2s$	$\bar{X} - 1,5s$
98	-8,35046	-5,01009	$\bar{X} - 2,5s$	$\bar{X} - 1,5s$
99	-10,02064	-5,01009	$\bar{X} - 3s$	$\bar{X} - 1,5s$
100	-6,68027	-6,68027	$\bar{X} - 2s$	$\bar{X} - 2s$
101	-8,35046	-6,68027	$\bar{X} - 2,5s$	$\bar{X} - 2s$
102	-10,02064	-6,68027	$\bar{X} - 3s$	$\bar{X} - 2s$
103	-8,35046	-8,35046	$\bar{X} - 2,5s$	$\bar{X} - 2,5s$
104	-10,02064	-8,35046	$\bar{X} - 3s$	$\bar{X} - 2,5s$
105	-10,02064	-10,02064	$\bar{X} - 3s$	$\bar{X} - 3s$

TABELA A.11 - LIMITES INFERIOR E SUPERIOR - VALE5

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
1	0,00000	0,00000	zero	zero
2	0,00000	0,00034	zero	$\bar{X}$
3	-1,28236	0,00000	$\bar{X} - 0,5s$	zero
4	-2,56506	0,00000	$\bar{X} - 1s$	zero
5	-3,84776	0,00000	$\bar{X} - 1,5s$	zero
6	-5,13046	0,00000	$\bar{X} - 2s$	zero
7	-6,41316	0,00000	$\bar{X} - 2,5s$	zero
8	-7,69586	0,00000	$\bar{X} - 3s$	zero
9	0,00034	0,00034	$\bar{X}$	$\bar{X}$
10	-1,28236	0,00034	$\bar{X} - 0,5s$	$\bar{X}$
11	-2,56506	0,00034	$\bar{X} - 1s$	$\bar{X}$
12	-3,84776	0,00034	$\bar{X} - 1,5s$	$\bar{X}$
13	-5,13046	0,00034	$\bar{X} - 2s$	$\bar{X}$
14	-6,41316	0,00034	$\bar{X} - 2,5s$	$\bar{X}$
15	-7,69586	0,00034	$\bar{X} - 3s$	$\bar{X}$
16	0,00000	1,28303	zero	$\bar{X} + 0,5s$
17	0,00034	1,28303	$\bar{X}$	$\bar{X} + 0,5s$
18	1,28303	1,28303	$\bar{X} + 0,5s$	$\bar{X} + 0,5s$
19	-1,28236	1,28303	$\bar{X} - 0,5s$	$\bar{X} + 0,5s$
20	-2,56506	1,28303	$\bar{X} - 1s$	$\bar{X} + 0,5s$
21	-3,84776	1,28303	$\bar{X} - 1,5s$	$\bar{X} + 0,5s$
22	-5,13046	1,28303	$\bar{X} - 2s$	$\bar{X} + 0,5s$
23	-6,41316	1,28303	$\bar{X} - 2,5s$	$\bar{X} + 0,5s$
24	-7,69586	1,28303	$\bar{X} - 3s$	$\bar{X} + 0,5s$
25	0,00000	2,56573	zero	$\bar{X} + 1s$
26	0,00034	2,56573	$\bar{X}$	$\bar{X} + 1s$
27	1,28303	2,56573	$\bar{X} + 0,5s$	$\bar{X} + 1s$
28	2,56573	2,56573	$\bar{X} + 1s$	$\bar{X} + 1s$
29	-1,28236	2,56573	$\bar{X} - 0,5s$	$\bar{X} + 1s$
30	-2,56506	2,56573	$\bar{X} - 1s$	$\bar{X} + 1s$
31	-3,84776	2,56573	$\bar{X} - 1,5s$	$\bar{X} + 1s$
32	-5,13046	2,56573	$\bar{X} - 2s$	$\bar{X} + 1s$
33	-6,41316	2,56573	$\bar{X} - 2,5s$	$\bar{X} + 1s$
34	-7,69586	2,56573	$\bar{X} - 3s$	$\bar{X} + 1s$
35	0,00000	3,84843	zero	$\bar{X} + 1,5s$
36	0,00034	3,84843	$\bar{X}$	$\bar{X} + 1,5s$
37	1,28303	3,84843	$\bar{X} + 0,5s$	$\bar{X} + 1,5s$
38	2,56573	3,84843	$\bar{X} + 1s$	$\bar{X} + 1,5s$
39	3,84843	3,84843	$\bar{X} + 1,5s$	$\bar{X} + 1,5s$
40	-1,28236	3,84843	$\bar{X} - 0,5s$	$\bar{X} + 1,5s$
41	-2,56506	3,84843	$\bar{X} - 1s$	$\bar{X} + 1,5s$
42	-3,84776	3,84843	$\bar{X} - 1,5s$	$\bar{X} + 1,5s$
43	-5,13046	3,84843	$\bar{X} - 2s$	$\bar{X} + 1,5s$
44	-6,41316	3,84843	$\bar{X} - 2,5s$	$\bar{X} + 1,5s$
45	-7,69586	3,84843	$\bar{X} - 3s$	$\bar{X} + 1,5s$
46	0,00000	5,13113	zero	$\bar{X} + 2s$
47	0,00034	5,13113	$\bar{X}$	$\bar{X} + 2s$
48	1,28303	5,13113	$\bar{X} + 0,5s$	$\bar{X} + 2s$
49	2,56573	5,13113	$\bar{X} + 1s$	$\bar{X} + 2s$
50	3,84843	5,13113	$\bar{X} + 1,5s$	$\bar{X} + 2s$
51	5,13113	5,13113	$\bar{X} + 2s$	$\bar{X} + 2s$
52	-1,28236	5,13113	$\bar{X} - 0,5s$	$\bar{X} + 2s$
53	-2,56506	5,13113	$\bar{X} - 1s$	$\bar{X} + 2s$

(continua na página seguinte)



TABELA A.11 - LIMITES INFERIOR E SUPERIOR - VALE5

(continuação)

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
54	-3,84776	5,13113	$\bar{X} - 1,5s$	$\bar{X} + 2s$
55	-5,13046	5,13113	$\bar{X} - 2s$	$\bar{X} + 2s$
56	-6,41316	5,13113	$\bar{X} - 2,5s$	$\bar{X} + 2s$
57	-7,69586	5,13113	$\bar{X} - 3s$	$\bar{X} + 2s$
58	0,00000	6,41383	zero	$\bar{X} + 2,5s$
59	0,00034	6,41383	$\bar{X}$	$\bar{X} + 2,5s$
60	1,28303	6,41383	$\bar{X} + 0,5s$	$\bar{X} + 2,5s$
61	2,56573	6,41383	$\bar{X} + 1s$	$\bar{X} + 2,5s$
62	3,84843	6,41383	$\bar{X} + 1,5s$	$\bar{X} + 2,5s$
63	5,13113	6,41383	$\bar{X} + 2s$	$\bar{X} + 2,5s$
64	6,41383	6,41383	$\bar{X} + 2,5s$	$\bar{X} + 2,5s$
65	-1,28236	6,41383	$-0,5s$	$\bar{X} + 2,5s$
66	-2,56506	6,41383	$\bar{X} - 1s$	$\bar{X} + 2,5s$
67	-3,84776	6,41383	$\bar{X} - 1,5s$	$\bar{X} + 2,5s$
68	-5,13046	6,41383	$\bar{X} - 2s$	$\bar{X} + 2,5s$
69	-6,41316	6,41383	$\bar{X} - 2,5s$	$\bar{X} + 2,5s$
70	-7,69586	6,41383	$\bar{X} - 3s$	$\bar{X} + 2,5s$
71	0,00000	7,69653	zero	$\bar{X} + 3s$
72	0,00034	7,69653	$\bar{X}$	$\bar{X} + 3s$
73	1,28303	7,69653	$\bar{X} + 0,5s$	$\bar{X} + 3s$
74	2,56573	7,69653	$\bar{X} + 1s$	$\bar{X} + 3s$
75	3,84843	7,69653	$\bar{X} + 1,5s$	$\bar{X} + 3s$
76	5,13113	7,69653	$\bar{X} + 2s$	$\bar{X} + 3s$
77	6,41383	7,69653	$\bar{X} + 2,5s$	$\bar{X} + 3s$
78	7,69653	7,69653	$\bar{X} + 3s$	$\bar{X} + 3s$
79	-1,28236	7,69653	$\bar{X} - 0,5s$	$\bar{X} + 3s$
80	-2,56506	7,69653	$\bar{X} - 1s$	$\bar{X} + 3s$
81	-3,84776	7,69653	$\bar{X} - 1,5s$	$\bar{X} + 3s$
82	-5,13046	7,69653	$\bar{X} - 2s$	$\bar{X} + 3s$
83	-6,41316	7,69653	$\bar{X} - 2,5s$	$\bar{X} + 3s$
84	-7,69586	7,69653	$\bar{X} - 3s$	$\bar{X} + 3s$
85	-1,28236	-1,28236	$\bar{X} - 0,5s$	$\bar{X} - 0,5s$
86	-2,56506	-1,28236	$\bar{X} - 1s$	$\bar{X} - 0,5s$
87	-3,84776	-1,28236	$\bar{X} - 1,5s$	$\bar{X} - 0,5s$
88	-5,13046	-1,28236	$\bar{X} - 2s$	$\bar{X} - 0,5s$
89	-6,41316	-1,28236	$\bar{X} - 2,5s$	$\bar{X} - 0,5s$
90	-7,69586	-1,28236	$\bar{X} - 3s$	$\bar{X} - 0,5s$
91	-2,56506	-2,56506	$\bar{X} - 1s$	$\bar{X} - 1s$
92	-3,84776	-2,56506	$\bar{X} - 1,5s$	$\bar{X} - 1s$
93	-5,13046	-2,56506	$\bar{X} - 2s$	$\bar{X} - 1s$
94	-6,41316	-2,56506	$\bar{X} - 2,5s$	$\bar{X} - 1s$
95	-7,69586	-2,56506	$\bar{X} - 3s$	$\bar{X} - 1s$
96	-3,84776	-3,84776	$\bar{X} - 1,5s$	$\bar{X} - 1,5s$
97	-5,13046	-3,84776	$\bar{X} - 2s$	$\bar{X} - 1,5s$
98	-6,41316	-3,84776	$\bar{X} - 2,5s$	$\bar{X} - 1,5s$
99	-7,69586	-3,84776	$\bar{X} - 3s$	$\bar{X} - 1,5s$
100	-5,13046	-5,13046	$\bar{X} - 2s$	$\bar{X} - 2s$
101	-6,41316	-5,13046	$\bar{X} - 2,5s$	$\bar{X} - 2s$
102	-7,69586	-5,13046	$\bar{X} - 3s$	$\bar{X} - 2s$
103	-6,41316	-6,41316	$\bar{X} - 2,5s$	$\bar{X} - 2,5s$
104	-7,69586	-6,41316	$\bar{X} - 3s$	$\bar{X} - 2,5s$
105	-7,69586	-7,69586	$\bar{X} - 3s$	$\bar{X} - 3s$

TABELA A.12 - LIMITES INFERIOR E SUPERIOR - EMBR4

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
1	0,00000	0,00000	zero	zero
2	0,00000	0,00090	zero	$\bar{X}$
3	-1,83569	0,00000	$\bar{X} - 0,5s$	zero
4	-3,67227	0,00000	$\bar{X} - 1s$	zero
5	-5,50886	0,00000	$\bar{X} - 1,5s$	zero
6	-7,34545	0,00000	$\bar{X} - 2s$	zero
7	-9,18204	0,00000	$\bar{X} - 2,5s$	zero
8	-11,01863	0,00000	$\bar{X} - 3s$	zero
9	0,00090	0,00090	$\bar{X}$	$\bar{X}$
10	-1,83569	0,00090	$\bar{X} - 0,5s$	$\bar{X}$
11	-3,67227	0,00090	$\bar{X} - 1s$	$\bar{X}$
12	-5,50886	0,00090	$\bar{X} - 1,5s$	$\bar{X}$
13	-7,34545	0,00090	$\bar{X} - 2s$	$\bar{X}$
14	-9,18204	0,00090	$\bar{X} - 2,5s$	$\bar{X}$
15	-11,01863	0,00090	$\bar{X} - 3s$	$\bar{X}$
16	0,00000	1,83749	zero	$\bar{X} + 0,5s$
17	0,00090	1,83749	$\bar{X}$	$\bar{X} + 0,5s$
18	1,83749	1,83749	$\bar{X} + 0,5s$	$\bar{X} + 0,5s$
19	-1,83569	1,83749	$\bar{X} - 0,5s$	$\bar{X} + 0,5s$
20	-3,67227	1,83749	$\bar{X} - 1s$	$\bar{X} + 0,5s$
21	-5,50886	1,83749	$\bar{X} - 1,5s$	$\bar{X} + 0,5s$
22	-7,34545	1,83749	$\bar{X} - 2s$	$\bar{X} + 0,5s$
23	-9,18204	1,83749	$\bar{X} - 2,5s$	$\bar{X} + 0,5s$
24	-11,01863	1,83749	$\bar{X} - 3s$	$\bar{X} + 0,5s$
25	0,00000	3,67408	zero	$\bar{X} + 1s$
26	0,00090	3,67408	$\bar{X}$	$\bar{X} + 1s$
27	1,83749	3,67408	$\bar{X} + 0,5s$	$\bar{X} + 1s$
28	3,67408	3,67408	$\bar{X} + 1s$	$\bar{X} + 1s$
29	-1,83569	3,67408	$\bar{X} - 0,5s$	$\bar{X} + 1s$
30	-3,67227	3,67408	$\bar{X} - 1s$	$\bar{X} + 1s$
31	-5,50886	3,67408	$\bar{X} - 1,5s$	$\bar{X} + 1s$
32	-7,34545	3,67408	$\bar{X} - 2s$	$\bar{X} + 1s$
33	-9,18204	3,67408	$\bar{X} - 2,5s$	$\bar{X} + 1s$
34	-11,01863	3,67408	$\bar{X} - 3s$	$\bar{X} + 1s$
35	0,00000	5,51067	zero	$\bar{X} + 1,5s$
36	0,00090	5,51067	$\bar{X}$	$\bar{X} + 1,5s$
37	1,83749	5,51067	$\bar{X} + 0,5s$	$\bar{X} + 1,5s$
38	3,67408	5,51067	$\bar{X} + 1s$	$\bar{X} + 1,5s$
39	5,51067	5,51067	$\bar{X} + 1,5s$	$\bar{X} + 1,5s$
40	-1,83569	5,51067	$\bar{X} - 0,5s$	$\bar{X} + 1,5s$
41	-3,67227	5,51067	$\bar{X} - 1s$	$\bar{X} + 1,5s$
42	-5,50886	5,51067	$\bar{X} - 1,5s$	$\bar{X} + 1,5s$
43	-7,34545	5,51067	$\bar{X} - 2s$	$\bar{X} + 1,5s$
44	-9,18204	5,51067	$\bar{X} - 2,5s$	$\bar{X} + 1,5s$
45	-11,01863	5,51067	$\bar{X} - 3s$	$\bar{X} + 1,5s$
46	0,00000	7,34725	zero	$\bar{X} + 2s$
47	0,00090	7,34725	$\bar{X}$	$\bar{X} + 2s$
48	1,83749	7,34725	$\bar{X} + 0,5s$	$\bar{X} + 2s$
49	3,67408	7,34725	$\bar{X} + 1s$	$\bar{X} + 2s$
50	5,51067	7,34725	$\bar{X} + 1,5s$	$\bar{X} + 2s$
51	7,34725	7,34725	$\bar{X} + 2s$	$\bar{X} + 2s$
52	-1,83569	7,34725	$\bar{X} - 0,5s$	$\bar{X} + 2s$
53	-3,67227	7,34725	$\bar{X} - 1s$	$\bar{X} + 2s$

(continua na página seguinte)

TABELA A.12 - LIMITES INFERIOR E SUPERIOR - EMBR4

(continuação)

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
54	-5,50886	7,34725	$\bar{X} - 1,5s$	$\bar{X} + 2s$
55	-7,34545	7,34725	$\bar{X} - 2s$	$\bar{X} + 2s$
56	-9,18204	7,34725	$\bar{X} - 2,5s$	$\bar{X} + 2s$
57	-11,01863	7,34725	$\bar{X} - 3s$	$\bar{X} + 2s$
58	0,00000	9,18384	zero	$\bar{X} + 2,5s$
59	0,00090	9,18384	$\bar{X}$	$\bar{X} + 2,5s$
60	1,83749	9,18384	$\bar{X} + 0,5s$	$\bar{X} + 2,5s$
61	3,67408	9,18384	$\bar{X} + 1s$	$\bar{X} + 2,5s$
62	5,51067	9,18384	$\bar{X} + 1,5s$	$\bar{X} + 2,5s$
63	7,34725	9,18384	$\bar{X} + 2s$	$\bar{X} + 2,5s$
64	9,18384	9,18384	$\bar{X} + 2,5s$	$\bar{X} + 2,5s$
65	-1,83569	9,18384	-0,5s	$\bar{X} + 2,5s$
66	-3,67227	9,18384	$\bar{X} - 1s$	$\bar{X} + 2,5s$
67	-5,50886	9,18384	$\bar{X} - 1,5s$	$\bar{X} + 2,5s$
68	-7,34545	9,18384	$\bar{X} - 2s$	$\bar{X} + 2,5s$
69	-9,18204	9,18384	$\bar{X} - 2,5s$	$\bar{X} + 2,5s$
70	-11,01863	9,18384	$\bar{X} - 3s$	$\bar{X} + 2,5s$
71	0,00000	11,02043	zero	$\bar{X} + 3s$
72	0,00090	11,02043	$\bar{X}$	$\bar{X} + 3s$
73	1,83749	11,02043	$\bar{X} + 0,5s$	$\bar{X} + 3s$
74	3,67408	11,02043	$\bar{X} + 1s$	$\bar{X} + 3s$
75	5,51067	11,02043	$\bar{X} + 1,5s$	$\bar{X} + 3s$
76	7,34725	11,02043	$\bar{X} + 2s$	$\bar{X} + 3s$
77	9,18384	11,02043	$\bar{X} + 2,5s$	$\bar{X} + 3s$
78	11,02043	11,02043	$\bar{X} + 3s$	$\bar{X} + 3s$
79	-1,83569	11,02043	$\bar{X} - 0,5s$	$\bar{X} + 3s$
80	-3,67227	11,02043	$\bar{X} - 1s$	$\bar{X} + 3s$
81	-5,50886	11,02043	$\bar{X} - 1,5s$	$\bar{X} + 3s$
82	-7,34545	11,02043	$\bar{X} - 2s$	$\bar{X} + 3s$
83	-9,18204	11,02043	$\bar{X} - 2,5s$	$\bar{X} + 3s$
84	-11,01863	11,02043	$\bar{X} - 3s$	$\bar{X} + 3s$
85	-1,83569	-1,83569	$\bar{X} - 0,5s$	$\bar{X} - 0,5s$
86	-3,67227	-1,83569	$\bar{X} - 1s$	$\bar{X} - 0,5s$
87	-5,50886	-1,83569	$\bar{X} - 1,5s$	$\bar{X} - 0,5s$
88	-7,34545	-1,83569	$\bar{X} - 2s$	$\bar{X} - 0,5s$
89	-9,18204	-1,83569	$\bar{X} - 2,5s$	$\bar{X} - 0,5s$
90	-11,01863	-1,83569	$\bar{X} - 3s$	$\bar{X} - 0,5s$
91	-3,67227	-3,67227	$\bar{X} - 1s$	$\bar{X} - 1s$
92	-5,50886	-3,67227	$\bar{X} - 1,5s$	$\bar{X} - 1s$
93	-7,34545	-3,67227	$\bar{X} - 2s$	$\bar{X} - 1s$
94	-9,18204	-3,67227	$\bar{X} - 2,5s$	$\bar{X} - 1s$
95	-11,01863	-3,67227	$\bar{X} - 3s$	$\bar{X} - 1s$
96	-5,50886	-5,50886	$\bar{X} - 1,5s$	$\bar{X} - 1,5s$
97	-7,34545	-5,50886	$\bar{X} - 2s$	$\bar{X} - 1,5s$
98	-9,18204	-5,50886	$\bar{X} - 2,5s$	$\bar{X} - 1,5s$
99	-11,01863	-5,50886	$\bar{X} - 3s$	$\bar{X} - 1,5s$
100	-7,34545	-7,34545	$\bar{X} - 2s$	$\bar{X} - 2s$
101	-9,18204	-7,34545	$\bar{X} - 2,5s$	$\bar{X} - 2s$
102	-11,01863	-7,34545	$\bar{X} - 3s$	$\bar{X} - 2s$
103	-9,18204	-9,18204	$\bar{X} - 2,5s$	$\bar{X} - 2,5s$
104	-11,01863	-9,18204	$\bar{X} - 3s$	$\bar{X} - 2,5s$
105	-11,01863	-11,01863	$\bar{X} - 3s$	$\bar{X} - 3s$

TABELA A.13 - LIMITES INFERIOR E SUPERIOR - DJONES

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
1	0,00000	0,00000	zero	zero
2	0,00000	0,00019	zero	$\bar{X}$
3	-0,52289	0,00000	$\bar{X} - 0,5s$	zero
4	-1,04596	0,00000	$\bar{X} - 1s$	zero
5	-1,56904	0,00000	$\bar{X} - 1,5s$	zero
6	-2,09211	0,00000	$\bar{X} - 2s$	zero
7	-2,61518	0,00000	$\bar{X} - 2,5s$	zero
8	-3,13826	0,00000	$\bar{X} - 3s$	zero
9	0,00019	0,00019	$\bar{X}$	$\bar{X}$
10	-0,52289	0,00019	$\bar{X} - 0,5s$	$\bar{X}$
11	-1,04596	0,00019	$\bar{X} - 1s$	$\bar{X}$
12	-1,56904	0,00019	$\bar{X} - 1,5s$	$\bar{X}$
13	-2,09211	0,00019	$\bar{X} - 2s$	$\bar{X}$
14	-2,61518	0,00019	$\bar{X} - 2,5s$	$\bar{X}$
15	-3,13826	0,00019	$\bar{X} - 3s$	$\bar{X}$
16	0,00000	0,52326	zero	$\bar{X} + 0,5s$
17	0,00019	0,52326	$\bar{X}$	$\bar{X} + 0,5s$
18	0,52326	0,52326	$\bar{X} + 0,5s$	$\bar{X} + 0,5s$
19	-0,52289	0,52326	$\bar{X} - 0,5s$	$\bar{X} + 0,5s$
20	-1,04596	0,52326	$\bar{X} - 1s$	$\bar{X} + 0,5s$
21	-1,56904	0,52326	$\bar{X} - 1,5s$	$\bar{X} + 0,5s$
22	-2,09211	0,52326	$\bar{X} - 2s$	$\bar{X} + 0,5s$
23	-2,61518	0,52326	$\bar{X} - 2,5s$	$\bar{X} + 0,5s$
24	-3,13826	0,52326	$\bar{X} - 3s$	$\bar{X} + 0,5s$
25	0,00000	1,04634	zero	$\bar{X} + 1s$
26	0,00019	1,04634	$\bar{X}$	$\bar{X} + 1s$
27	0,52326	1,04634	$\bar{X} + 0,5s$	$\bar{X} + 1s$
28	1,04634	1,04634	$\bar{X} + 1s$	$\bar{X} + 1s$
29	-0,52289	1,04634	$\bar{X} - 0,5s$	$\bar{X} + 1s$
30	-1,04596	1,04634	$\bar{X} - 1s$	$\bar{X} + 1s$
31	-1,56904	1,04634	$\bar{X} - 1,5s$	$\bar{X} + 1s$
32	-2,09211	1,04634	$\bar{X} - 2s$	$\bar{X} + 1s$
33	-2,61518	1,04634	$\bar{X} - 2,5s$	$\bar{X} + 1s$
34	-3,13826	1,04634	$\bar{X} - 3s$	$\bar{X} + 1s$
35	0,00000	1,56941	zero	$\bar{X} + 1,5s$
36	0,00019	1,56941	$\bar{X}$	$\bar{X} + 1,5s$
37	0,52326	1,56941	$\bar{X} + 0,5s$	$\bar{X} + 1,5s$
38	1,04634	1,56941	$\bar{X} + 1s$	$\bar{X} + 1,5s$
39	1,56941	1,56941	$\bar{X} + 1,5s$	$\bar{X} + 1,5s$
40	-0,52289	1,56941	$\bar{X} - 0,5s$	$\bar{X} + 1,5s$
41	-1,04596	1,56941	$\bar{X} - 1s$	$\bar{X} + 1,5s$
42	-1,56904	1,56941	$\bar{X} - 1,5s$	$\bar{X} + 1,5s$
43	-2,09211	1,56941	$\bar{X} - 2s$	$\bar{X} + 1,5s$
44	-2,61518	1,56941	$\bar{X} - 2,5s$	$\bar{X} + 1,5s$
45	-3,13826	1,56941	$\bar{X} - 3s$	$\bar{X} + 1,5s$
46	0,00000	2,09248	zero	$\bar{X} + 2s$
47	0,00019	2,09248	$\bar{X}$	$\bar{X} + 2s$
48	0,52326	2,09248	$\bar{X} + 0,5s$	$\bar{X} + 2s$
49	1,04634	2,09248	$\bar{X} + 1s$	$\bar{X} + 2s$
50	1,56941	2,09248	$\bar{X} + 1,5s$	$\bar{X} + 2s$
51	2,09248	2,09248	$\bar{X} + 2s$	$\bar{X} + 2s$
52	-0,52289	2,09248	$\bar{X} - 0,5s$	$\bar{X} + 2s$
53	-1,04596	2,09248	$\bar{X} - 1s$	$\bar{X} + 2s$

(continua na página seguinte)

TABELA A.13 - LIMITES INFERIOR E SUPERIOR - DJONES

(continuação)

estratégia	LI (valor)	LS (valor)	LI (parâmetro)	LS (parâmetro)
54	-1,56904	2,09248	$\bar{X} - 1,5s$	$\bar{X} + 2s$
55	-2,09211	2,09248	$\bar{X} - 2s$	$\bar{X} + 2s$
56	-2,61518	2,09248	$\bar{X} - 2,5s$	$\bar{X} + 2s$
57	-3,13826	2,09248	$\bar{X} - 3s$	$\bar{X} + 2s$
58	0,00000	2,61556	zero	$\bar{X} + 2,5s$
59	0,00019	2,61556	$\bar{X}$	$\bar{X} + 2,5s$
60	0,52326	2,61556	$\bar{X} + 0,5s$	$\bar{X} + 2,5s$
61	1,04634	2,61556	$\bar{X} + 1s$	$\bar{X} + 2,5s$
62	1,56941	2,61556	$\bar{X} + 1,5s$	$\bar{X} + 2,5s$
63	2,09248	2,61556	$\bar{X} + 2s$	$\bar{X} + 2,5s$
64	2,61556	2,61556	$\bar{X} + 2,5s$	$\bar{X} + 2,5s$
65	-0,52289	2,61556	$-0,5s$	$\bar{X} + 2,5s$
66	-1,04596	2,61556	$\bar{X} - 1s$	$\bar{X} + 2,5s$
67	-1,56904	2,61556	$\bar{X} - 1,5s$	$\bar{X} + 2,5s$
68	-2,09211	2,61556	$\bar{X} - 2s$	$\bar{X} + 2,5s$
69	-2,61518	2,61556	$\bar{X} - 2,5s$	$\bar{X} + 2,5s$
70	-3,13826	2,61556	$\bar{X} - 3s$	$\bar{X} + 2,5s$
71	0,00000	3,13863	zero	$\bar{X} + 3s$
72	0,00019	3,13863	$\bar{X}$	$\bar{X} + 3s$
73	0,52326	3,13863	$\bar{X} + 0,5s$	$\bar{X} + 3s$
74	1,04634	3,13863	$\bar{X} + 1s$	$\bar{X} + 3s$
75	1,56941	3,13863	$\bar{X} + 1,5s$	$\bar{X} + 3s$
76	2,09248	3,13863	$\bar{X} + 2s$	$\bar{X} + 3s$
77	2,61556	3,13863	$\bar{X} + 2,5s$	$\bar{X} + 3s$
78	3,13863	3,13863	$\bar{X} + 3s$	$\bar{X} + 3s$
79	-0,52289	3,13863	$\bar{X} - 0,5s$	$\bar{X} + 3s$
80	-1,04596	3,13863	$\bar{X} - 1s$	$\bar{X} + 3s$
81	-1,56904	3,13863	$\bar{X} - 1,5s$	$\bar{X} + 3s$
82	-2,09211	3,13863	$\bar{X} - 2s$	$\bar{X} + 3s$
83	-2,61518	3,13863	$\bar{X} - 2,5s$	$\bar{X} + 3s$
84	-3,13826	3,13863	$\bar{X} - 3s$	$\bar{X} + 3s$
85	-0,52289	-0,52289	$\bar{X} - 0,5s$	$\bar{X} - 0,5s$
86	-1,04596	-0,52289	$\bar{X} - 1s$	$\bar{X} - 0,5s$
87	-1,56904	-0,52289	$\bar{X} - 1,5s$	$\bar{X} - 0,5s$
88	-2,09211	-0,52289	$\bar{X} - 2s$	$\bar{X} - 0,5s$
89	-2,61518	-0,52289	$\bar{X} - 2,5s$	$\bar{X} - 0,5s$
90	-3,13826	-0,52289	$\bar{X} - 3s$	$\bar{X} - 0,5s$
91	-1,04596	-1,04596	$\bar{X} - 1s$	$\bar{X} - 1s$
92	-1,56904	-1,04596	$\bar{X} - 1,5s$	$\bar{X} - 1s$
93	-2,09211	-1,04596	$\bar{X} - 2s$	$\bar{X} - 1s$
94	-2,61518	-1,04596	$\bar{X} - 2,5s$	$\bar{X} - 1s$
95	-3,13826	-1,04596	$\bar{X} - 3s$	$\bar{X} - 1s$
96	-1,56904	-1,56904	$\bar{X} - 1,5s$	$\bar{X} - 1,5s$
97	-2,09211	-1,56904	$\bar{X} - 2s$	$\bar{X} - 1,5s$
98	-2,61518	-1,56904	$\bar{X} - 2,5s$	$\bar{X} - 1,5s$
99	-3,13826	-1,56904	$\bar{X} - 3s$	$\bar{X} - 1,5s$
100	-2,09211	-2,09211	$\bar{X} - 2s$	$\bar{X} - 2s$
101	-2,61518	-2,09211	$\bar{X} - 2,5s$	$\bar{X} - 2s$
102	-3,13826	-2,09211	$\bar{X} - 3s$	$\bar{X} - 2s$
103	-2,61518	-2,61518	$\bar{X} - 2,5s$	$\bar{X} - 2,5s$
104	-3,13826	-2,61518	$\bar{X} - 3s$	$\bar{X} - 2,5s$
105	-3,13826	-3,13826	$\bar{X} - 3s$	$\bar{X} - 3s$

**Tabela A.14 - RETORNO ESCALONADO**  
Período: 94/OUT-02 RESTR 2

ESTRATÉGIA	TNLP4	PETRA	TSPP4	BBDC4	EBTP4	ELET6	EMBR4	VALE5	ITAU4	PETR3	Média	DP
1	-6,5000	67,4034	-11,9481	94,1214	-18,4736	1,8368	558,0576	47,6577	52,0904	96,3893	88,0634	170,6471
2	-6,5000	71,7135	-11,9481	94,1214	-18,4736	1,8368	558,0576	47,6577	52,0904	96,3893	88,4944	170,5946
3	-5,4944	108,7687	-15,1538	79,0680	-21,1141	-3,9719	270,2285	88,4120	44,7835	225,3346	75,0861	101,6035
4	-13,4663	70,5399	-18,9106	35,0199	-23,4458	-13,3032	117,3220	22,4331	29,0000	116,9762	32,2165	53,6252
5	8,2644	3,9468	-18,9815	78,2033	-23,8033	-3,9955	114,7730	96,3657	70,7260	134,8379	46,0337	59,2491
6	4,9927	41,7466	-19,6475	49,1230	-24,1534	-1,8869	180,6139	18,8669	172,5320	81,8870	50,3674	73,9330
7	8,3336	35,3046	-15,1789	56,2992	-21,5029	9,5454	72,3540	46,5786	215,0509	113,0970	51,9881	70,4621
8	3,3460	53,0364	-14,8645	56,6771	-21,9112	16,7586	51,0975	70,0779	238,8790	143,2467	59,6343	79,2747
9	-6,5000	71,7135	-15,7741	94,1214	-18,4736	1,8368	558,0576	47,6577	52,0904	96,3893	88,1118	170,8490
10	-5,4944	108,7687	-18,3180	79,0680	-21,1141	-3,9719	270,2285	88,4120	44,7835	225,3346	74,7697	101,9202
11	-13,4663	70,5399	-18,9106	35,0199	-23,4458	-13,3032	117,3220	22,4331	29,0000	116,9762	32,2165	53,6252
12	8,2644	3,9468	-18,9815	78,2033	-23,8033	-3,9955	114,7730	96,3657	70,7260	134,8379	46,0337	59,2491
13	4,9927	41,7466	-19,6475	49,1230	-24,1534	-1,8869	180,6139	18,8669	172,5320	81,8870	50,3674	73,9330
14	8,3336	35,3046	-15,1789	56,2992	-21,5029	9,5454	72,3540	46,5786	215,0509	113,0970	51,9881	70,4621
15	3,3460	53,0364	-14,8645	56,6771	-21,9112	16,7586	51,0975	70,0779	238,8790	143,2467	59,6343	79,2747
16	-4,2912	18,2557	5,4544	42,3161	-9,2330	13,9340	104,4262	12,4472	23,3071	77,0238	28,3640	36,4264
17	-4,2912	20,4346	5,4544	42,3161	-9,2330	13,9340	104,4262	12,4472	23,3071	77,0238	28,5819	36,3657
18	-11,0167	11,6254	-4,0668	38,4584	-7,4417	16,1784	109,6008	11,0332	67,3693	42,4424	27,4183	38,0433
19	-5,0199	42,9370	-4,2169	127,0397	-14,4896	12,4538	289,9769	12,7429	48,5470	191,9201	70,1891	101,4148
20	-16,9002	94,3639	-8,6452	91,4534	-20,5677	11,4316	275,4215	-6,0344	6,1738	216,5938	64,3291	105,2217
21	11,6705	3,8899	-15,8730	134,8748	-23,8841	3,9683	804,0434	57,7713	54,5217	202,4282	123,3411	249,6272
22	2,5058	42,5794	-12,8698	62,3774	-24,1486	-2,4057	827,3321	13,2347	138,5068	92,2040	113,9326	255,8206
23	6,1800	39,4470	-12,3426	68,4388	-20,8993	10,2684	129,3516	45,5470	222,2655	66,6077	55,4862	73,6585
24	3,3460	59,1565	-12,3091	53,8266	-21,4082	22,3423	83,4419	69,8473	224,7929	110,9515	59,3988	72,2020
25	-8,5372	-6,7362	10,9523	1,6145	6,4641	-5,4185	38,3418	-13,8998	10,1198	37,3129	7,0414	18,1616
26	-8,5372	-3,6774	10,9523	1,6145	6,4641	-5,4185	38,3418	-13,8998	10,1198	37,3129	7,3473	17,9280
27	-12,3443	-5,0587	-1,0679	7,7526	5,2220	7,5381	31,2974	-7,8706	28,8601	5,8966	6,0225	14,4135
28	-5,3455	-11,4547	3,4289	15,0599	-0,1117	3,4560	23,7895	-8,2464	18,8897	5,1339	4,4580	11,6797
29	1,8698	4,9234	9,0982	54,3692	-4,5385	-3,3130	65,5429	-18,7707	17,6749	75,6462	20,2492	32,7968
30	-5,5959	5,2478	2,8326	38,3171	-7,7490	0,1241	112,3001	-17,1282	-14,5403	69,7657	18,3574	42,4376
31	-2,0197	-10,6041	-12,6231	80,5914	-22,3022	-9,9051	656,8152	29,4877	77,7754	162,7995	95,0015	206,0048
32	-9,0479	78,1818	-8,0802	28,7176	-24,0118	-11,6234	678,5445	13,1637	202,6094	80,9008	102,9355	213,4454
33	1,0536	26,3116	-9,5814	36,0424	-20,6496	-4,6772	137,8457	41,3487	240,8634	40,8877	48,9435	80,9466
34	0,1808	49,3479	-12,3082	34,9248	-20,9789	8,0679	114,9304	67,1994	222,6267	79,0985	54,3089	73,3038
35	-8,6891	-7,9955	10,7356	-6,5263	0,5998	6,7491	11,1014	-17,2528	3,2759	15,8807	0,7879	10,6500
36	-8,6891	-5,6130	10,7356	-6,5263	0,5998	6,7491	11,1014	-17,2528	3,2759	15,8807	1,0261	10,4566

(continua na página seguinte)

Tabela A.14 - RETORNO ESCALONADO

ESTRATÉGIA	Período: 94/OUT-02											Média	DP
	TNLP4	PETRA	TSPP4	BBDC4	EBTP4	ELE16	EMBR4	VALE5	ITAU4	PETR3	RESTR2		
37	-8,3707	-6,4977	-0,9193	-3,4933	-0,4602	9,1755	9,3254	-12,0120	11,1375	-9,5391	-1,1654	8,4488	
38	-0,2266	-10,2963	-3,4400	5,5671	-5,0801	8,0652	12,4792	-10,3682	8,5700	-9,7399	-0,4460	8,6223	
39	1,4373	-11,2157	-2,9454	5,7546	-4,1946	4,1518	13,0428	-6,0276	11,4443	-9,5576	0,1890	8,3858	
40	-2,2540	2,4466	15,2239	5,4190	2,4740	-0,9606	3,8845	-22,9362	17,8497	16,3847	3,7532	11,8632	
41	-1,1495	-0,9056	6,3133	6,3482	-1,4389	0,8430	6,1214	-20,3952	-3,5529	42,8863	3,5070	15,8724	
42	-0,7935	-12,4630	-2,5529	36,3936	-7,3568	96,9670	153,1752	44,4209	83,0326	91,9448	48,2768	56,1954	
43	-12,5423	73,5296	-13,4990	14,6215	-22,9192	5,3624	425,8553	15,6224	216,4298	82,4707	78,4931	141,4773	
44	4,3380	15,8038	-9,1397	61,9174	-18,0785	9,1877	119,5810	27,3534	359,5114	45,8695	61,6344	112,0563	
45	3,4372	34,9586	-15,8363	33,3328	-17,2678	24,1263	75,6065	54,7271	273,8255	56,6953	52,3605	83,6434	
46	0,5320	-2,7630	11,8056	-3,0546	15,4897	4,6618	6,9514	-10,0225	-1,9994	4,3434	2,5944	7,6202	
47	0,5320	-0,1503	11,8056	-3,0546	15,4897	4,6618	6,9514	-10,0225	-1,9994	4,3434	2,5944	7,6202	
48	0,4120	-1,8814	1,8404	-1,3777	7,5727	8,7386	7,1534	-7,8285	4,7418	-8,0760	1,1295	6,0563	
49	7,6722	-5,7647	-1,0423	2,3322	5,0567	4,1739	11,0388	-6,0695	8,0008	-7,9933	1,7407	6,6494	
50	8,7801	-6,2744	-0,9732	1,7295	6,6188	1,0274	12,3036	-5,0110	10,8906	-7,5293	2,1362	7,2041	
51	9,4895	-6,0953	-0,9732	0,2668	4,5165	1,5911	10,0916	-4,7743	12,8491	-8,2124	1,8750	7,2509	
52	2,0622	0,0215	8,8238	7,1785	31,0751	-0,9831	-0,5744	-14,1281	14,1627	5,8179	5,3456	11,7798	
53	27,4015	-8,9328	16,7962	15,4599	38,9413	-3,5195	5,6787	-11,0990	0,5399	5,6571	8,6923	16,0303	
54	44,6874	-11,4637	-1,9554	141,6622	6,2339	46,9034	125,7466	6,9473	25,4042	59,0695	44,3235	52,4812	
55	18,9127	105,7424	12,4263	34,9428	-13,2380	4,9648	263,6446	2,9816	80,4558	119,9513	63,0784	84,1324	
56	28,5207	41,6816	0,7835	102,3045	-13,8790	47,3405	153,3938	10,7909	267,5623	132,8008	77,1300	87,4533	
57	3,4404	129,9779	-9,1846	50,1392	-11,7734	45,3537	122,5057	24,5647	218,6103	134,6833	70,8317	76,7896	
58	-2,3758	-1,6119	2,6326	0,3662	2,6040	1,8252	4,2517	-5,5862	-1,4318	4,9994	0,5664	3,3088	
59	-2,3758	-1,6119	2,6326	0,3662	2,6040	1,8252	4,2517	-5,5862	-1,4318	4,9994	0,5664	3,3088	
60	-0,3071	-1,8799	-1,6019	-1,6325	0,0351	5,1587	4,1406	-4,6700	4,1145	-0,8093	0,2548	3,1861	
61	6,0913	-3,7211	-0,0588	0,7919	-0,3629	2,4937	6,9266	-4,5043	3,0002	-1,2148	0,9442	3,7677	
62	6,1674	-4,1779	1,3684	-0,5731	-0,3629	-0,7064	4,6039	-3,9253	4,8249	-1,4273	0,5792	3,6038	
63	6,6789	-3,6714	1,3684	-1,7961	-1,5996	-0,7064	3,7611	-3,7697	5,4721	-2,3756	0,3362	3,7868	
64	6,6789	-3,6714	1,8905	-0,7360	-1,5996	-0,8445	3,7304	-4,7112	3,1692	-4,7360	-0,0830	3,8585	
65	0,9401	-4,5465	0,3398	-0,5241	7,2304	-0,9307	7,1182	-8,1575	6,0238	-1,8994	0,5594	5,0450	
66	3,7138	-5,7064	0,5021	1,6674	3,7210	-0,3619	10,0628	-11,7550	-1,1317	-11,4264	-1,0714	6,8570	
67	7,3320	-15,2661	-4,5403	-0,8176	-10,4236	-7,1704	111,5638	-14,8422	-3,2782	-6,7362	5,5821	37,8292	
68	-3,1980	127,9751	0,0197	42,8858	-11,7136	-19,9332	133,0350	-21,7992	7,0736	20,0160	27,4361	57,5986	
69	8,1145	113,4058	-8,1461	179,0843	-4,7243	7,8207	174,1665	-1,5526	216,0876	121,2581	80,5514	89,4403	
70	-3,9168	76,1544	-13,9708	97,2493	-11,7769	7,4173	150,2303	5,8934	211,2777	146,3039	66,4862	81,7204	
71	-2,6721	-4,0535	2,8878	6,0698	0,6795	2,7435	-0,0835	2,3086	0,3682	2,7645	1,1013	2,9388	
72	-2,6721	-4,0535	2,8878	6,0698	0,6795	2,7435	-0,0835	2,3086	0,3682	2,7645	1,1013	2,9388	

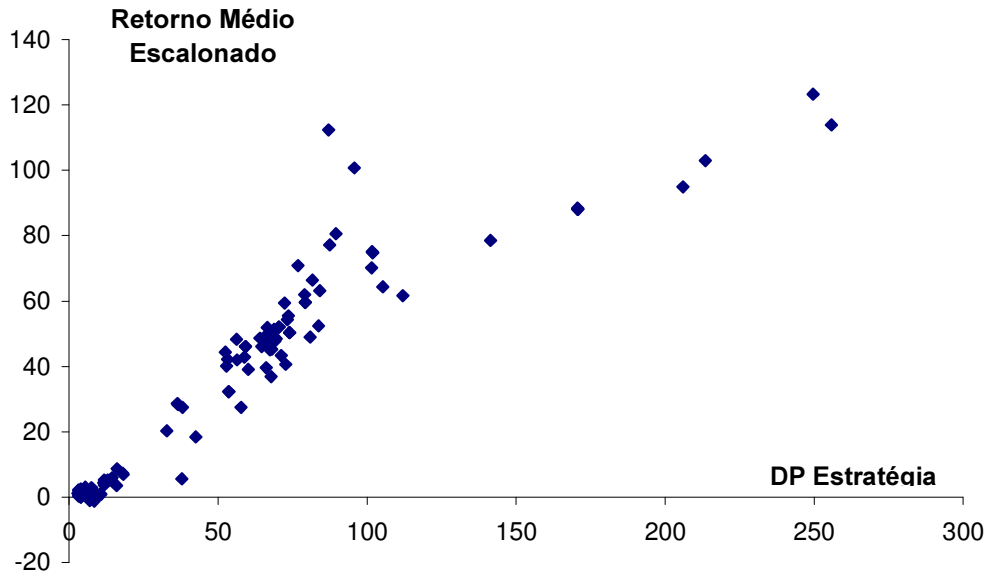
(continuação)

(continua na página seguinte)

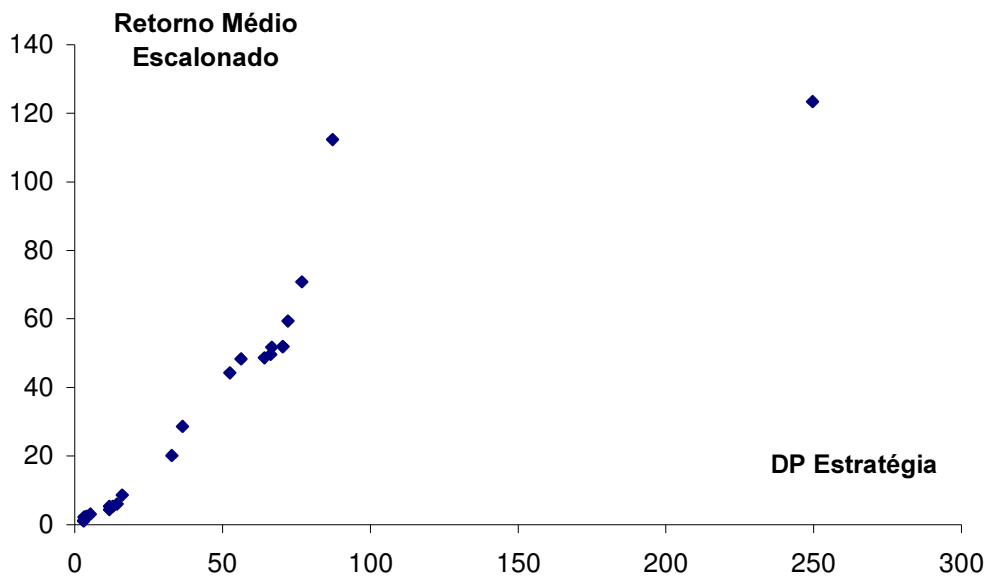
Tabela A.14 - RETORNO ESCALONADO

ESTRATÉGIA	TNLP4	PETR4	TSPP4	BBDC4	EBTP4	ELET6	EMBR4	VALES	ITAU4	PETR3	Média	DP	(continuação)
													Período: 94/OUT-02
73	0,0838	-3,6253	-1,4901	7,9517	1,5387	7,1641	0,0868	2,6031	4,2037	0,8721	1,9389	3,6502	
74	6,0111	-4,9245	-1,0660	9,0247	0,9964	6,2161	2,2906	2,6031	3,1250	0,8611	2,5139	3,9712	
75	6,0420	-4,7456	0,2073	5,7017	0,9964	4,0042	2,2906	2,8487	4,7445	0,3855	2,2475	3,2337	
76	6,5369	-4,2952	0,2073	4,2421	-0,2133	4,0042	2,2906	2,8953	4,7445	-0,0394	2,0373	3,1611	
77	6,5369	-4,2952	0,2073	4,2517	-0,2133	3,7229	2,2613	0,1884	2,6686	-2,3724	1,2956	3,2372	
78	5,2643	-4,2952	0,2073	6,7381	-0,2133	3,7229	2,2315	0,1884	2,6686	-4,5283	1,1984	3,7087	
79	0,2869	-4,7632	1,1664	10,0937	7,3051	2,1456	-4,2112	1,7759	-0,1718	-1,4116	1,2215	4,6185	
80	2,8324	-1,5210	1,4030	11,5656	6,8246	11,4180	-4,2581	3,1116	-0,8352	0,0664	3,0607	5,3626	
81	2,2395	-12,3433	-3,5742	5,3441	1,4549	4,0020	37,8668	5,2319	9,3234	3,9601	5,3525	12,8916	
82	-1,9148	190,2527	-1,2609	82,1312	5,4795	3,4785	37,5197	4,2755	14,2289	57,4158	39,1606	60,1651	
83	47,8233	177,4669	-7,6947	173,3871	13,4908	75,0574	87,6848	89,0267	232,0359	236,5249	112,3803	87,1481	
84	6,3765	196,4062	-13,8227	203,8031	-15,0917	81,1274	100,1704	36,9270	226,7314	184,3931	100,7021	96,7710	
85	-17,4574	144,5247	-18,8318	84,3079	-22,3561	-6,9974	46,0468	82,8533	126,4618	201,1240	61,9676	79,0443	
86	-10,8458	64,1954	-13,8605	54,4474	-22,6611	-12,6174	78,1726	44,4207	90,3706	130,1642	40,1786	52,8294	
87	6,2410	7,1435	-15,7543	78,1802	-23,2683	-4,5283	70,0543	82,1330	108,4267	113,5210	42,2149	53,2166	
88	2,2891	43,0963	-16,7234	33,7305	-24,0905	-6,1219	119,2465	24,0606	207,8418	49,4649	43,2794	71,1886	
89	5,5676	34,2214	-10,5351	57,9669	-21,5578	-2,2579	56,1416	47,2968	213,5324	98,2650	47,8661	69,0190	
90	1,1035	51,6911	-10,1080	56,6771	-21,9526	3,8350	35,1734	65,9299	194,7159	137,5483	51,4614	68,6531	
91	-7,7799	53,8364	-13,3608	32,5843	-22,3968	-18,6619	103,3952	55,8975	103,9062	140,4657	42,7886	58,7675	
92	2,7362	8,4761	-13,9431	49,3862	-23,1411	-14,4647	92,9328	91,4233	118,2359	109,0257	42,0667	56,3939	
93	0,0722	39,1303	-15,3956	23,2032	-23,7495	-13,2137	132,6508	24,2599	175,7533	53,2125	39,5923	66,0600	
94	4,1612	26,9851	-10,5351	43,8437	-21,6550	-3,0286	61,6775	45,1850	204,7139	103,1234	45,4471	67,4870	
95	-0,0697	51,6911	-10,1080	55,9484	-21,8890	3,8350	38,9745	54,8706	175,5308	137,5718	48,6356	64,1274	
96	1,8270	6,2011	-14,8377	86,1329	-23,0008	-15,2784	71,5074	88,7422	172,0884	87,8693	46,1251	64,5428	
97	-4,1664	27,4854	-16,3290	33,7453	-23,7495	-14,3371	110,7265	25,6559	212,8830	53,9791	40,5893	72,7434	
98	5,8610	30,8496	-11,8831	48,2540	-21,6550	-2,1785	45,2686	45,1962	207,4242	104,3357	45,1473	67,9455	
99	-1,4274	51,6911	-12,5832	57,8637	-21,8890	3,3754	29,5909	54,8706	183,9748	137,5718	48,3039	66,6646	
100	-3,8911	20,0478	-16,3290	36,2805	-23,6124	-12,5842	101,0563	23,6223	198,3154	45,3927	36,8298	67,7507	
101	5,8610	30,3699	-11,8831	51,0183	-21,6550	-0,3884	40,3961	49,4538	207,3091	100,7132	45,1195	67,5030	
102	-1,4274	51,6911	-12,5832	57,8637	-21,8890	3,3754	25,8770	59,6140	183,8759	133,0636	47,9461	66,1837	
103	5,8610	34,8079	-12,6152	60,1677	-21,8659	1,0901	40,3961	49,4538	207,5118	119,2818	48,4289	69,4495	
104	-1,4274	57,5318	-12,8134	67,0725	-21,8998	5,0322	25,8770	59,6140	183,8759	133,0636	49,5926	66,3636	
105	-1,4274	68,1556	-12,8134	67,0725	-21,8998	7,7601	25,8770	68,6209	183,8759	133,0636	51,8285	66,5689	





**FIGURA A.122: Média Retorno Escalonado vs. DP Estratégia**  
Período: 94/OUT-02 - RESTR2



**FIGURA A.123: Média Retorno Escalonado vs. DP Estratégia**  
Melhores Estratégias - Período: 94/OUT-02 - RESTR2

Tabela A.15 - RETORNO ESCALONADO

Período: 94/OUT-02 RESTR.3

ESTRATÉGIA	TNLP4	PETRA4	TSPPA4	BBDC4	EBTP4	ELET6	EMBR4	VALE5	ITAUA	PETR3	Média	DP
1	97,3104	110,4752	50,3784	112,4963	57,6143	36,2613	54,5265	224,6204	281,5017	143,6101	116,8796	80,4074
2	97,3104	110,4752	50,3784	112,4963	57,6143	36,2613	54,5265	224,6204	281,5017	143,6101	116,8796	80,4074
3	108,6126	113,3504	42,7323	84,5025	40,3415	12,4923	62,1362	221,6157	219,3318	104,9416	101,0057	71,0769
4	86,7555	87,8621	32,3703	89,8969	36,5825	58,1837	50,5476	196,0433	186,2215	73,9559	89,6419	57,3815
5	36,1735	44,4944	11,7448	73,0845	47,5737	32,4741	44,8922	78,5097	310,3363	46,2528	72,4535	86,7291
6	31,4913	28,0193	14,2006	56,0973	27,8526	16,6384	64,1411	154,4712	91,4752	57,1942	54,1581	42,7671
7	8,9460	39,7176	17,0411	19,7715	10,3928	12,1861	35,7281	54,2998	33,9266	30,4421	26,2452	14,9442
8	4,0320	25,6445	13,8254	10,5480	5,6381	7,4293	48,5783	33,1539	15,6721	12,0665	17,6588	14,1232
9	97,3104	110,4752	50,3784	112,4963	57,6143	36,2613	54,5265	224,6204	281,5017	143,6101	116,8796	80,4074
10	108,6126	113,3504	42,7323	84,5025	40,3415	12,4923	62,1362	221,6157	219,3318	104,9416	101,0057	71,0769
11	86,7555	87,8621	32,3703	89,8969	36,5825	58,1837	50,5476	196,0433	186,2215	73,9559	89,6419	57,3815
12	36,1735	44,4944	11,7448	73,0845	47,5737	32,4741	44,8922	78,5097	310,3363	46,2528	72,4535	86,7291
13	31,4913	28,0193	14,2006	56,0973	27,8526	16,6384	64,1411	154,4712	91,4752	57,1942	54,1581	42,7671
14	8,9460	39,7176	17,0411	19,7715	10,3928	12,1861	35,7281	54,2998	33,9266	30,4421	26,2452	14,9442
15	4,0320	25,6445	13,8254	10,5480	5,6381	7,4293	48,5783	33,1539	15,6721	12,0665	17,6588	14,1232
16	111,5086	132,2930	52,7040	182,0794	72,3683	53,2787	68,9930	370,6801	379,6315	227,5300	165,1067	124,4515
17	111,5086	132,2930	52,7040	182,0794	72,3683	53,2787	68,9930	370,6801	379,6315	227,5300	165,1067	124,4515
18	96,8060	114,6405	59,2932	160,1937	58,4423	53,3295	77,6388	382,9167	365,8009	274,2271	164,2089	128,9403
19	102,8185	166,4870	50,7215	126,3284	38,8192	23,0571	60,3701	336,3360	307,4986	155,5484	136,7985	109,1577
20	96,9253	110,4420	42,8684	140,3624	42,6986	13,1522	71,4085	344,7572	252,1645	118,9048	123,3684	102,5301
21	39,6673	63,1853	17,3749	87,3973	58,0590	13,9591	51,3999	114,8557	313,8273	71,2566	83,0982	86,5496
22	30,3093	32,9939	8,8518	65,4564	28,4886	18,9111	66,7858	185,2107	137,4150	65,5918	63,9014	56,2943
23	10,1081	43,4572	15,2122	21,1489	10,3928	13,0209	33,2086	62,5666	43,7312	33,2848	28,6131	17,6305
24	4,0320	28,3643	14,5391	10,5288	5,6381	7,4293	45,4839	38,5417	17,8631	12,5521	18,4962	14,2963
25	98,8391	175,4704	54,3770	185,7769	57,0483	63,1699	120,5067	618,3461	484,4814	188,6876	204,6703	192,5194
26	98,8391	175,4704	54,3770	185,7769	57,0483	63,1699	120,5067	618,3461	484,4814	188,6876	204,6703	192,5194
27	86,8700	187,0431	62,1812	188,9367	53,0065	57,2356	119,6814	442,0262	388,5136	267,9630	185,2457	140,3690
28	51,3713	177,0304	67,5760	170,3040	52,1446	59,1129	114,1292	477,8839	397,7560	296,9473	186,4256	154,2016
29	96,4542	205,4551	56,9601	126,4113	38,3289	42,1484	109,8960	580,3990	338,0153	137,5668	173,0635	168,7873
30	136,3540	167,8458	49,0070	103,1705	44,0452	12,8467	124,9638	478,4630	335,8384	103,5994	155,6134	144,4620
31	86,9213	85,2776	31,3209	89,0759	58,2507	17,6132	63,6084	198,5274	306,0936	90,6780	102,7367	86,4568
32	63,0850	30,3096	9,3252	93,9219	31,0932	26,1301	71,7709	201,6978	127,5152	94,9947	74,9844	58,0679
33	13,8665	48,3275	14,9330	33,6416	10,1131	15,0877	35,1967	62,0518	50,4133	52,2359	33,5667	19,1458
34	6,0486	33,4517	15,0677	18,2689	6,1372	9,2109	45,9809	38,1617	17,8631	21,0327	21,1233	13,7814
35	122,8055	199,8530	64,7683	207,3092	50,5967	94,9940	105,5011	570,2286	586,4548	178,1664	218,0678	197,2608
36	122,8055	199,8530	64,7683	207,3092	50,5967	94,9940	105,5011	570,2286	586,4548	178,1664	218,0678	197,2608

(continua na página seguinte)

Tabela A.15 - RETORNO ESCALONADO

Período: 94/OUT-02 RESTR.3

(continuação)

ESTRATÉGIA	TNLP4	PETRA4	TSPP4	BBDC4	EBTP4	ELET6	EMBR4	VALE5	ITAU4	PETR3	Média	DP
37	90,1274	170,7663	79,8587	211,5021	47,9296	94,9940	103,5080	484,7071	521,6499	234,6443	203,9687	168,8243
38	56,5550	185,1685	78,8760	181,9500	53,2275	86,4798	100,7274	488,1849	494,9185	262,8700	198,8957	168,0097
39	56,5550	222,4492	84,6249	189,0273	53,2154	86,4798	97,3231	439,9629	477,5364	276,8624	198,4036	156,3395
40	91,1238	194,3438	47,3954	149,2595	32,1076	89,4211	105,7767	730,0516	366,2938	169,7647	197,5538	209,8955
41	84,2600	168,0685	48,1426	131,6393	37,2875	100,3843	118,7518	589,6335	550,7966	189,6027	201,8567	200,0264
42	80,9722	100,0777	37,3354	128,6654	45,3000	14,3371	90,0093	215,9964	280,7372	195,7590	118,9190	86,4435
43	75,4898	57,9138	15,6950	95,0860	50,6793	27,3699	75,6121	315,2362	140,3879	133,4529	98,6923	86,1947
44	15,1284	47,4774	17,7654	36,5396	18,1523	16,4746	59,6520	85,1480	57,8234	66,5065	42,0668	24,9749
45	6,8114	46,5976	17,3367	19,3638	5,9743	14,7379	71,4313	56,6095	19,7071	25,7972	28,4367	22,1626
46	93,3572	186,6354	88,7737	267,9023	39,1765	87,0939	112,5423	436,0089	620,5493	240,6214	217,2661	184,3984
47	93,3572	186,6354	88,7737	267,9023	39,1765	87,0939	112,5423	436,0089	620,5493	240,6214	217,2661	184,3984
48	83,1550	178,1468	104,8608	259,9681	38,5520	87,0708	113,9823	419,5705	587,5659	281,9006	215,4773	175,0321
49	61,0650	209,5093	103,0489	262,6616	52,2133	87,0708	107,6206	387,0747	487,9815	290,4315	204,8677	149,7103
50	61,0650	253,2839	103,0489	280,7798	52,2013	85,8735	104,0274	387,0747	483,9453	322,9231	213,4223	153,1439
51	58,9279	253,2839	103,0489	303,6936	51,7769	85,8735	104,0274	347,6690	454,5630	322,9231	208,5787	144,5609
52	84,9216	198,9989	83,1968	176,4096	34,0247	88,7767	122,4600	489,1118	442,1985	237,2256	195,7326	155,2143
53	60,9820	168,8304	60,9651	170,7492	19,8892	100,4635	133,2919	498,6763	413,5473	218,2008	184,5396	156,3843
54	48,2441	108,8531	47,8000	149,0439	30,0142	59,9461	109,2719	303,5446	235,7949	192,3571	128,4870	91,1415
55	27,8712	80,6952	14,7688	186,8486	47,0170	34,2195	153,9510	482,9389	142,7497	94,4680	126,5528	138,1935
56	15,9899	56,8739	19,4536	52,9573	21,7997	19,2142	79,6311	141,4444	85,4584	53,0393	54,5862	39,7004
57	6,8114	41,3777	22,1548	15,7561	5,9743	17,3861	94,2754	126,4270	22,5056	26,1115	37,8780	40,2052
58	93,4415	187,2422	66,0509	256,4879	41,3579	80,7052	66,8338	403,1404	526,3905	274,7563	199,6407	164,3731
59	93,4415	187,2422	66,0509	256,4879	41,3579	80,7052	66,8338	403,1404	526,3905	274,7563	199,6407	164,3731
60	81,8247	187,2256	67,9428	252,3795	36,6508	80,7052	66,8496	410,9938	495,6071	293,4940	197,3673	161,0826
61	54,4233	192,5866	66,1289	255,0037	36,9916	80,7052	62,7179	408,8450	484,4782	298,6675	194,0548	161,8537
62	54,4233	208,1126	66,1289	265,4459	36,9916	80,7227	62,7179	408,8450	449,2044	339,3602	197,1953	159,2238
63	52,4420	208,1126	66,1289	287,2558	36,6491	80,7227	62,7179	367,3958	437,0766	339,3602	193,7862	152,8954
64	52,4420	208,1126	63,9092	283,1691	36,6491	80,7227	62,7179	406,3025	437,0766	339,3602	197,0462	158,1610
65	84,1974	186,7235	62,9773	269,6762	43,2571	76,3435	83,6123	467,5994	331,5930	265,0517	187,1031	142,2503
66	84,1974	139,5538	62,9773	284,6114	25,8009	86,7997	84,8125	510,4803	344,3664	394,4419	201,8042	168,1405
67	66,7267	161,3227	49,3774	447,1101	28,4360	54,2950	91,8645	439,3199	403,9638	337,9680	208,0384	177,2098
68	74,4711	150,6297	49,5507	210,9720	25,6683	131,8182	130,5400	458,8428	345,0916	252,0248	182,9609	136,8981
69	80,8881	141,2047	43,9516	51,9548	5,3038	19,2142	79,6311	180,2126	111,9255	70,6908	78,4977	53,9890
70	9,0773	283,0770	49,1247	13,5240	5,9743	17,3861	94,2754	231,3760	20,9600	34,5174	75,9292	99,7498
71	97,5073	153,5355	62,5482	218,6285	57,5001	36,1551	39,2740	203,0057	528,6846	254,2071	165,1046	150,4408
72	97,5073	153,5355	62,5482	218,6285	57,5001	36,1551	39,2740	203,0057	528,6846	254,2071	165,1046	150,4408

(continua na página seguinte)

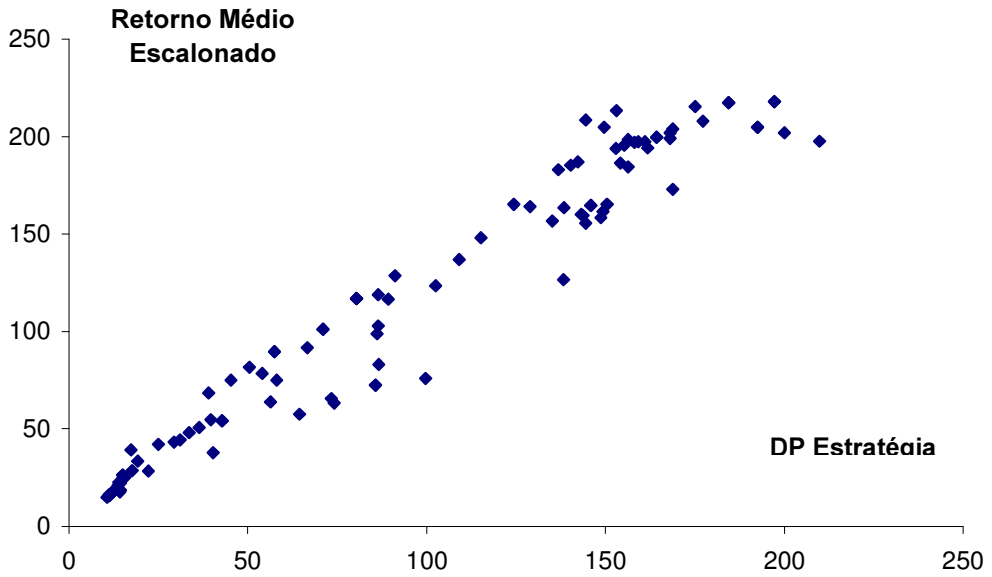
Tabela A.15 - RETORNO ESCALONADO

Período: 94/OUT-02

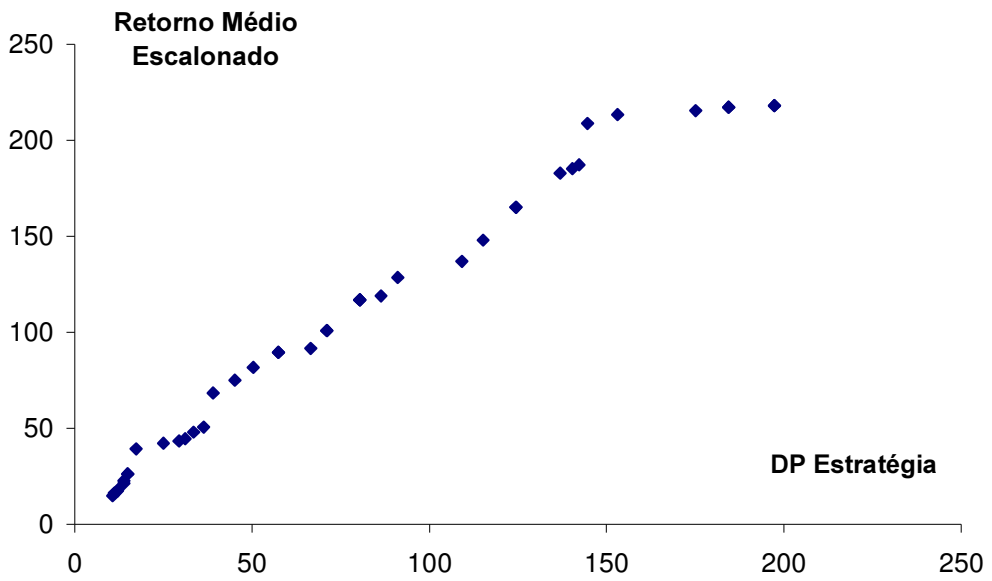
RESTR.3

(continuação)

ESTRATÉGIA	TNLP4	PETRA	TSPP4	BBDCA	EBTP4	ELET6	EMBR4	VALE5	ITAU4	PETR3	Média	DP
73	86,5020	153,5355	65,9651	205,8135	35,9647	36,1551	39,2740	223,0671	515,0637	254,2071	161,4548	149,3436
74	56,7680	156,8388	64,1581	208,0561	36,3014	36,1617	39,2738	223,0671	503,5280	256,7091	158,2862	148,7268
75	56,7680	169,9180	64,1581	216,8144	36,3014	40,2124	39,2738	211,8306	470,8716	294,4696	160,0618	143,2960
76	54,7313	169,9180	64,1581	235,1153	35,9626	40,2124	39,2738	190,1713	470,8716	294,4696	159,4684	143,7389
77	54,7313	169,9180	64,1581	235,1153	35,9626	40,2124	39,2738	241,1172	470,8716	294,4696	164,5830	145,8348
78	54,7313	169,9180	64,1581	235,1153	35,9626	40,2124	39,2738	241,1172	470,8716	294,4696	164,5830	145,8348
79	87,9656	169,9610	59,5943	217,8580	55,3328	33,5651	49,6998	227,6270	478,2654	254,4213	163,4290	138,4390
80	87,9656	137,5609	59,5943	215,8853	34,8190	42,5840	50,5965	219,7450	462,6496	254,4213	156,5821	135,1080
81	92,4157	157,0660	62,1847	292,0800	34,9475	19,5243	50,5954	168,7058	330,9110	271,6243	148,0055	115,1027
82	102,2371	116,7464	62,3863	190,3494	17,0496	19,3349	43,2635	163,6475	304,4279	146,4057	116,5868	89,2634
83	86,9883	99,0187	43,9516	67,5784	13,3068	29,2487	57,8707	44,2016	99,0501	143,0323	68,4247	38,9520
84	50,4430	60,8808	49,1247	14,7050	12,9459	50,4429	56,8105	41,7670	26,2955	29,5033	39,2919	17,2814
85	93,9124	105,0899	49,2650	80,0241	26,4036	13,4455	60,0474	205,8827	206,3480	76,4175	91,6836	66,6049
86	74,2280	69,2897	46,9089	90,1066	30,7271	56,5625	47,5098	173,8976	170,3354	58,9679	81,6533	50,3966
87	38,3523	39,4441	31,0532	61,4900	34,0704	27,9879	40,4072	67,6642	271,1520	43,1050	65,4726	73,3653
88	28,6745	25,5589	32,1298	51,3302	27,0632	16,6384	57,2165	136,9078	85,9486	45,8278	50,7196	36,3693
89	8,4707	52,2951	16,7172	19,2440	9,9132	12,1861	22,0480	50,3291	30,8218	29,0520	25,1077	15,6782
90	4,0320	32,8268	13,5325	10,5480	5,5883	7,4293	34,6277	33,1278	23,3409	11,2690	17,6302	12,1770
91	69,6857	58,0247	46,9089	89,2462	24,4749	52,4532	40,3150	160,0242	148,2701	59,9861	74,9369	45,2102
92	46,9114	32,9486	31,0532	60,5659	23,8698	26,9906	36,3865	65,2667	270,4318	37,9604	63,2385	74,0751
93	28,8966	24,5249	32,1298	53,3941	21,0742	16,6384	53,3785	126,6014	79,9565	44,1498	48,0744	33,5801
94	8,0314	52,2951	16,7172	20,3768	9,0230	12,1861	22,0480	45,7960	30,8218	27,8006	24,5096	14,9923
95	3,7150	32,8268	13,5325	11,4418	4,8240	7,4293	33,3129	33,5669	23,3409	11,2865	17,5277	12,1124
96	49,9334	31,3814	28,8636	52,8677	23,5664	22,7106	33,0948	62,3188	236,9625	33,7097	57,5409	64,4070
97	28,5193	18,0150	30,4258	49,5049	21,0742	13,1826	49,1856	115,4797	75,0349	44,1498	44,4572	31,0950
98	8,8898	43,1515	13,1706	17,4145	9,0230	9,0774	22,0480	45,6801	31,2409	27,8006	22,7496	13,8556
99	4,8299	24,8954	10,2681	10,1938	4,8240	7,4293	33,3129	33,5669	21,8427	11,2865	16,2450	11,2196
100	28,5193	18,0150	26,9381	49,4785	21,0742	13,1826	49,1856	108,9039	72,7253	44,9090	43,2931	29,3857
101	8,8898	41,2289	10,7796	16,1211	9,0230	9,0774	22,0395	48,3202	31,2409	27,8006	22,4521	14,3265
102	4,8299	23,1736	8,0919	10,1938	4,8240	7,4293	33,2994	34,8845	21,8427	11,2865	15,9656	11,4288
103	8,8898	41,2289	10,5319	16,1211	9,0230	9,0774	22,0395	48,3202	31,1012	24,5691	22,0902	14,2408
104	4,8299	20,5421	8,0919	10,1938	4,8240	7,4293	33,2994	34,8845	21,8427	11,2865	15,7024	11,2736
105	4,8299	19,7723	8,0919	10,1938	4,8240	4,9842	33,2994	29,8105	21,8427	11,2865	14,8935	10,6229



**FIGURA A.124: Média Retorno Escalonado vs. DP Estratégia**  
 Período: 94/OUT-02 - RESTR3



**FIGURA A.125: Média Retorno Escalonado vs. DP Estratégia**  
 Melhores Estratégias - Período: 94/OUT-02 - RESTR3

Tabela A.16 - RETORNO ESCALONADO

Período: 94/OUT-02 RESTR. 4

ESTRATÉGIA	TNLP4	PETRA4	TSPP4	BBDC4	EBTP4	ELET6	EMBR4	VALES	ITAU4	PETR3	Média	DP
1	47,9161	127,7354	88,9967	255,2954	48,0660	54,4291	133,8107	271,7077	319,5444	171,3990	151,8901	99,7174
2	47,9161	127,7354	88,9967	255,2954	48,0660	54,4291	133,8107	271,7077	319,5444	171,3990	151,8901	99,7174
3	49,2190	144,6783	118,3413	289,1764	55,4245	72,9343	130,1173	295,9271	445,8642	218,8452	182,0527	128,7256
4	68,0054	150,5467	125,7402	251,7653	51,8348	65,3137	127,4542	209,4486	414,7194	275,3061	174,0134	114,7608
5	80,4852	173,9908	94,0469	348,0063	43,1697	61,5697	97,8460	294,8625	564,3986	260,0641	201,8440	165,8799
6	69,3047	151,0740	85,2334	179,1112	37,2358	61,5697	92,8259	118,8389	579,4197	244,7705	161,9384	159,2650
7	69,4708	133,0490	81,9573	193,0357	32,4485	61,5697	85,5333	142,7031	489,9447	227,3363	151,7048	133,5897
8	13,6576	99,5030	17,1486	200,9927	0,1122	61,5697	68,7513	139,1808	362,5920	208,9891	117,2497	113,6969
9	47,9161	127,7354	88,9967	255,2954	48,0660	54,4291	133,8107	271,7077	319,5444	171,3990	151,8901	99,7174
10	49,2190	144,6783	118,3413	289,1764	55,4245	72,9343	130,1173	295,9271	445,8642	218,8452	182,0527	128,7256
11	68,0054	150,5467	125,7402	251,7653	51,8348	65,3137	127,4542	209,4486	414,7194	275,3061	174,0134	114,7608
12	80,4852	173,9908	94,0469	348,0063	43,1697	61,5697	97,8460	294,8625	564,3986	260,0641	201,8440	165,8799
13	69,3047	151,0740	85,2334	179,1112	37,2358	61,5697	92,8259	118,8389	579,4197	244,7705	161,9384	159,2650
14	69,4708	133,0490	81,9573	193,0357	32,4485	61,5697	85,5333	142,7031	489,9447	227,3363	151,7048	133,5897
15	13,6576	99,5030	17,1486	200,9927	0,1122	61,5697	68,7513	139,1808	362,5920	208,9891	117,2497	113,6969
16	42,8764	96,9454	124,8203	157,6470	49,4743	49,4545	70,9887	263,3567	327,9280	138,2709	132,1762	95,9798
17	42,8764	96,9454	124,8203	157,6470	49,4743	49,4545	70,9887	263,3567	327,9280	138,2709	132,1762	95,9798
18	43,6033	89,4821	66,2219	129,5098	34,8688	38,4277	86,6040	202,9642	206,3183	120,7427	101,8543	63,1074
19	53,2311	109,2056	125,4741	244,3430	50,5905	58,8654	100,7594	233,8357	492,9822	182,3052	165,1592	135,2174
20	64,6559	151,7877	130,5613	206,1337	55,9932	62,3624	91,8098	225,9453	364,3664	218,7769	157,2393	98,1191
21	80,5843	174,6653	109,5412	325,5298	47,6739	61,5697	81,9063	278,1669	526,5158	225,8622	191,1995	151,9417
22	64,7874	149,8686	118,9473	172,8487	51,0649	61,5697	87,9240	119,0004	485,4690	232,4375	154,3918	129,2339
23	64,9471	133,0490	108,6380	193,0357	45,1499	61,5697	74,2476	146,9736	440,7150	227,2894	149,5615	118,3837
24	13,6576	99,5030	27,6831	200,9927	5,3662	61,5697	59,2051	139,1530	362,5920	208,9891	117,8711	112,6221
25	58,7022	261,5869	78,2210	116,1587	45,1817	37,0418	32,1880	229,1619	432,1028	126,6221	141,6967	129,2784
26	58,7022	261,5869	78,2210	116,1587	45,1817	37,0418	32,1880	229,1619	432,1028	126,6221	141,6967	129,2784
27	58,8373	245,1458	39,6742	97,1427	34,5186	60,6722	30,0491	159,8665	213,9448	88,4415	102,8293	77,2856
28	62,9241	162,0615	66,6887	133,7900	24,3671	34,9225	27,0196	131,3665	200,5706	68,8915	91,2602	61,5191
29	51,9979	141,6109	91,7507	231,2596	46,8968	57,9656	65,4654	284,1639	564,8328	158,1154	169,3859	160,6766
30	58,3720	98,9402	111,3614	262,0372	60,5264	53,9724	57,7913	121,6075	412,8400	167,6965	140,5245	115,5017
31	71,4610	147,2518	102,2735	261,4223	45,4694	61,5697	77,4449	165,3686	638,6144	205,5681	177,6444	176,1645
32	61,5263	147,1251	118,0385	173,5804	60,7720	61,5697	73,1343	113,2638	562,6878	201,4703	157,3168	150,8781
33	65,9969	126,4955	110,4708	192,4304	54,0880	61,5697	74,2394	128,6191	410,1354	210,0959	143,4141	108,0308
34	13,7779	99,5030	27,6831	196,2583	9,2066	61,5697	59,1688	121,5832	362,5920	193,0419	114,4385	110,2068
35	38,7365	141,5287	57,4535	99,2052	29,8444	11,8592	42,2727	125,9067	185,4982	291,7872	102,4091	86,9337
36	38,7365	141,5287	57,4535	99,2052	29,8444	11,8592	42,2727	125,9067	185,4982	291,7872	102,4091	86,9337

(continua na página seguinte)

Tabela A.16 - RETORNO ESCALONADO

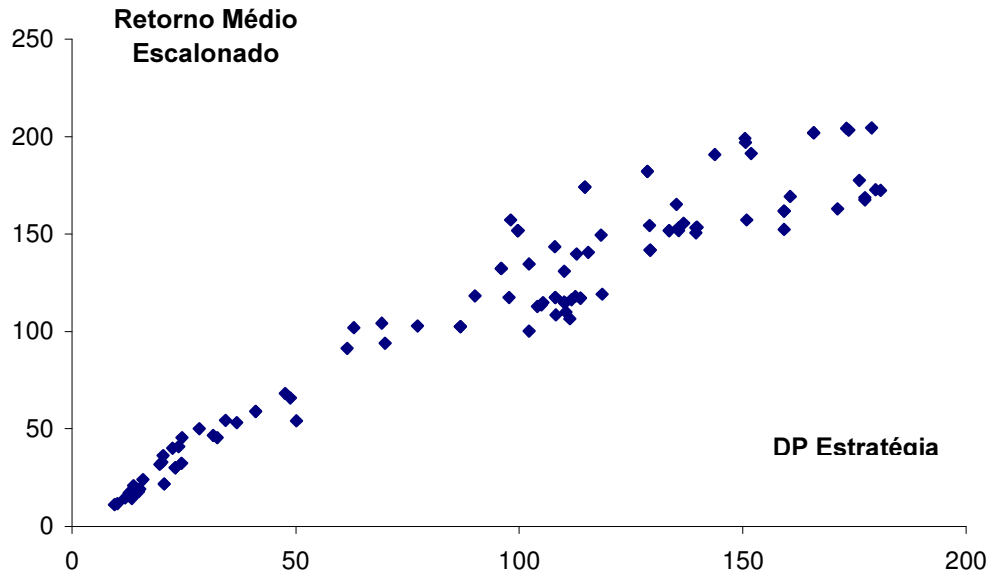
ESTRATÉGIA	Período: 94/OUT-02 RESTR 4													(continuação)	
	TNLP4	PETRA	TSPP4	BBDC4	EBTP4	ELET6	EMBR4	VALE5	ITAU4	PETR3	Média	DP			
37	44,8669	107,3474	30,6933	50,2997	33,7370	9,7342	29,1212	90,2811	106,0467	42,0239	54,4151	34,3869			
38	50,9382	69,5501	46,7956	85,0899	17,7799	9,7713	22,2401	79,3081	84,1061	36,0419	50,1621	28,4185			
39	51,0563	50,7256	29,4402	86,7528	18,3723	6,8732	21,9713	80,4487	96,3123	26,1314	46,8084	31,5538			
40	42,8092	241,0200	64,5568	256,9316	34,2952	16,5097	89,5625	144,5685	216,1562	76,9155	118,3325	90,1163			
41	51,7774	74,2449	80,2068	198,2866	71,6093	35,6712	43,1823	98,5078	241,4085	147,3951	104,2289	69,3454			
42	44,8835	133,7165	83,4628	185,2714	46,5708	58,0953	67,6323	142,3392	608,9862	259,1285	163,0086	171,2238			
43	66,6588	109,5936	95,1441	151,9393	49,6798	58,0953	134,1977	138,7977	530,1933	170,5949	150,4884	139,6209			
44	76,2774	106,1834	99,9949	219,7768	43,8638	58,0953	73,7717	122,3527	422,1261	173,6225	139,6065	112,8131			
45	18,2940	83,4877	27,6310	191,3661	4,7629	58,0953	59,6603	115,5853	362,5920	163,2772	108,4752	108,2539			
46	25,4436	84,3350	37,9951	70,8207	20,2083	50,7882	9,5438	103,9931	47,0774	140,5749	59,0780	41,0798			
47	25,4436	84,3350	37,9951	70,8207	20,2083	50,7882	9,5438	103,9931	47,0774	140,5749	59,0780	41,0798			
48	25,4508	72,3791	21,3038	68,8213	19,2615	47,8699	10,2539	63,1816	50,1768	75,4272	45,4126	24,5407			
49	30,1721	28,8930	17,4376	57,6242	12,4861	39,8635	6,0922	57,2441	53,9815	60,6188	36,4413	20,3790			
50	30,6324	20,8160	11,2870	51,4803	12,2077	26,1906	8,5605	51,4392	61,9399	54,1065	32,8414	20,1428			
51	28,0278	20,8160	11,2870	42,2329	12,4067	26,4627	8,5605	53,8475	64,0917	50,1593	31,7892	19,6499			
52	35,1639	128,1332	30,1728	227,5335	27,6067	65,3670	47,3037	91,1172	92,4983	194,9975	93,9884	70,0408			
53	88,5026	63,5608	33,7375	221,0981	41,7725	16,2752	47,6296	69,8911	225,4129	364,5746	116,2455	111,7847			
54	54,6416	159,6213	34,2551	189,3537	32,1628	51,6831	54,8865	106,8938	311,5164	528,9554	152,3970	159,2431			
55	55,9000	100,1253	77,0103	109,6900	38,9517	51,6831	54,8865	94,1278	438,8352	169,5060	119,0716	118,6505			
56	95,8503	97,7874	99,4040	267,3624	43,8828	51,6831	73,7710	84,7560	357,5477	172,4943	134,4539	102,2807			
57	18,2940	83,4877	27,3187	215,4554	4,7629	51,6831	59,6634	79,5982	362,9267	162,2768	106,5467	111,3499			
58	7,7829	25,0137	27,0604	44,2970	15,6244	24,2553	1,5805	78,4982	22,7386	54,9864	30,1836	23,1122			
59	7,7829	25,0137	27,0604	44,2970	15,6244	24,2553	1,5805	78,4982	22,7386	54,9864	30,1836	23,1122			
60	14,9692	21,9110	9,9328	30,5078	9,8401	27,2370	1,7408	53,4813	30,9126	41,2603	24,1793	15,8013			
61	14,7967	13,7878	12,6526	22,8481	8,1220	20,8998	2,0921	48,1082	31,4214	33,3925	20,8121	13,6774			
62	15,0981	11,3154	9,9252	22,4181	6,7992	16,0834	1,7934	48,8124	31,6026	29,7988	19,3647	14,0616			
63	13,3384	11,3154	9,9252	18,9245	6,9723	16,4569	1,7934	53,6010	30,9643	29,3259	19,2617	15,1547			
64	12,2463	11,3154	10,7946	21,3992	4,4165	14,1351	1,7934	45,5545	25,9482	24,6749	17,2278	12,7557			
65	15,8161	37,4877	22,3185	89,4366	19,0148	26,9561	25,6864	54,1047	57,5957	61,9422	41,0369	23,9037			
66	13,8385	32,8848	22,3185	97,4912	31,3693	9,5896	44,3497	32,1381	93,0071	79,7661	45,6753	32,4926			
67	21,7607	124,5887	24,1849	66,5553	19,5645	25,6058	51,2325	25,7391	96,0102	77,7313	53,2973	36,8030			
68	73,4433	134,2222	29,3456	95,6384	39,0757	25,6058	51,2325	40,6200	101,3065	159,2012	68,2712	47,7068			
69	8,2376	116,2973	33,5332	335,9671	43,9259	25,6058	69,7121	77,5911	207,9269	172,4943	117,4422	97,7152			
70	5,6037	11,7166	17,1976	30,4918	13,9075	19,3480	1,4058	75,0246	16,3498	26,5519	21,7597	20,6292			
71	5,6037	11,7166	17,1976	30,4918	13,9075	19,3480	1,4058	75,0246	16,3498	26,5519	21,7597	20,6292			
72	5,6037	11,7166	17,1976	30,4918	13,9075	19,3480	1,4058	75,0246	16,3498	26,5519	21,7597	20,6292			

(continua na página seguinte)

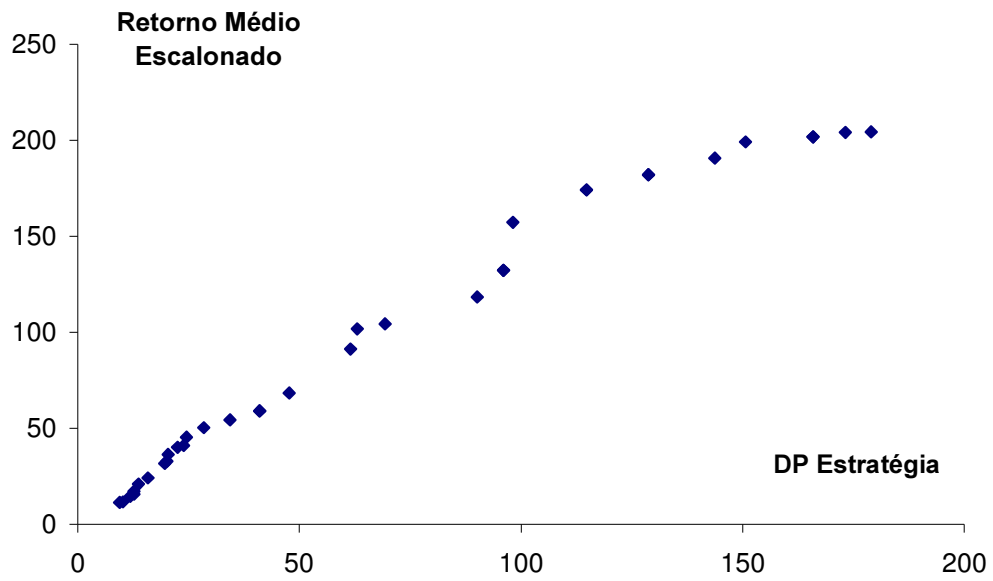
**Tabela A.16 - RETORNO ESCALONADO**  
 Período: 94/OUT-02 RESTR 4

ESTRATÉGIA	TNLP4	PETR4	TSPP4	BBD4	EBTP4	ELET6	EMBR4	VALE5	ITAU4	PETR3	Média	DP	(continuação)
73	8,1672	12,5769	6,4084	17,8633	9,9445	17,1627	1,5910	54,0287	21,7786	26,9382	17,6460	14,8560	
74	8,9202	7,5531	8,8460	14,7421	9,9940	12,0926	2,1044	46,5765	23,1598	22,7990	15,6788	12,6931	
75	9,1043	6,8555	6,3902	13,2106	8,4209	12,2500	3,7439	44,0811	21,4952	19,4225	14,4974	11,8364	
76	7,7288	6,8555	6,3902	10,3392	7,3104	11,4448	3,7439	48,9510	21,4952	18,2963	14,2455	13,3615	
77	6,2569	6,8555	6,3902	10,3392	4,6500	10,4799	2,1914	37,3351	17,4908	14,6695	11,6659	10,1338	
78	6,2569	6,8555	6,4504	13,7074	4,6500	10,4799	2,1914	34,8945	17,4908	9,5156	11,2493	9,4313	
79	12,8386	21,0058	13,7844	55,8062	14,1884	18,7896	26,9837	89,2900	25,8142	45,2907	32,3792	24,4929	
80	10,7069	25,2234	13,7745	83,2384	34,8150	40,9311	35,9016	65,3420	35,4707	54,7407	39,9830	22,5124	
81	12,4073	119,4107	16,0232	27,1009	25,8759	40,4514	36,0200	24,0034	79,3423	161,8948	54,2530	50,1717	
82	10,4089	115,9165	20,3605	114,2092	52,0544	30,7149	36,0200	36,8701	90,3668	153,1424	65,9064	48,7883	
83	67,3227	128,8015	26,7594	397,2608	41,1727	69,3007	73,1641	123,8712	210,0048	172,1511	130,9809	110,0643	
84	6,3765	116,3471	20,1947	275,7496	0,0000	54,7922	59,4788	88,0094	316,5458	162,3372	109,9631	110,5040	
85	49,0006	155,5253	120,5442	315,5376	71,5164	82,6789	111,6435	281,1047	531,7404	271,0078	199,0299	150,6219	
86	76,8199	147,6922	127,6649	259,6619	62,6186	71,0055	106,4286	216,8413	518,6788	318,7649	190,6177	143,7725	
87	75,6144	171,3023	90,5805	392,9439	48,9323	65,5639	81,8420	261,4897	574,2004	277,9346	204,0404	173,2271	
88	64,9488	149,9817	82,0162	200,6888	37,2358	65,5639	77,4981	118,6955	636,9986	242,2122	167,5838	177,3525	
89	65,1107	133,0490	81,9573	195,7278	32,4485	65,5639	80,1560	142,5388	509,5205	227,3363	153,3418	139,5306	
90	10,6916	99,5030	17,1486	200,9927	0,1122	65,5639	64,2083	139,0196	345,9455	208,9891	115,2175	110,0804	
91	72,7342	162,7217	127,6649	249,9594	63,2148	71,0055	106,4286	267,0464	545,8004	304,3194	197,0895	150,6618	
92	71,5751	171,3023	90,5805	345,9503	46,6141	65,5639	81,8620	297,6249	587,8930	274,7857	203,3752	173,7233	
93	61,3218	149,9817	82,0162	202,1683	35,2992	65,5639	77,5170	132,2956	636,9986	242,2122	168,5374	177,4180	
94	61,4788	133,0490	81,9573	197,1773	32,4485	65,5639	80,1845	146,0613	509,5205	227,3363	153,4777	139,6139	
95	9,1581	99,5030	17,1486	202,4754	0,1122	65,5639	64,2083	142,4724	317,6020	209,0255	112,7269	104,0747	
96	69,1028	162,4245	90,5805	351,1605	46,6250	65,5639	81,4375	298,1918	605,0331	274,7857	204,4905	178,9186	
97	59,1020	149,9817	82,0162	226,2050	35,2992	65,5639	83,6342	132,2956	647,1191	242,2122	172,3429	180,8417	
98	59,2561	133,0490	81,9573	197,1773	32,4485	65,5639	80,1845	146,0613	494,5039	227,3363	151,7538	135,7481	
99	9,1539	99,5030	17,1486	211,2886	0,1122	65,5639	64,2083	142,4724	317,6020	209,0255	113,6078	104,9532	
100	59,1020	149,9817	82,0162	219,0800	35,2992	65,5639	83,6342	144,5660	644,8999	242,2122	172,6396	179,7140	
101	59,2561	133,0490	81,9573	197,1773	32,4485	65,5639	80,1845	159,3308	494,5039	227,3363	153,0808	135,7511	
102	9,1539	99,5030	17,1486	211,2886	0,1122	65,5639	64,2083	155,4811	317,6020	209,0255	114,9087	105,4303	
103	59,2561	133,0490	81,9573	219,7628	32,4485	65,5639	80,1845	159,3308	494,9634	227,3363	155,3843	136,8744	
104	9,1539	99,5030	17,1486	235,2316	0,1122	65,5639	64,2083	155,4811	317,6020	209,0255	117,3030	108,1003	
105	9,1539	99,5030	17,1486	235,2316	0,1122	65,5639	64,2083	155,4811	317,6020	209,0255	117,3030	108,1003	





**FIGURA A.126: Média Retorno Escalonado vs. DP Estratégia**  
Período: 94/OUT-02 - RESTR4



**FIGURA A.127: Média Retorno Escalonado vs. DP Estratégia**  
Melhores Estratégias - Período: 94/OUT-02 - RESTR4

Tabela A.16 - RETORNO ESCALONADO

ESTRATÉGIA	Período: 94/OUT-02 SHEW											
	TNLP4	PETRA	TSP4	BBDC4	EBTP4	ELET6	EMBR4	VALE5	ITAU4	PETR3	Média	DP
1	47,6416	125,3333	115,1487	252,0277	56,7854	48,7489	137,2924	242,2172	343,6559	240,3436	160,9193	102,6260
2	47,6416	126,0875	115,1487	248,7637	56,7854	48,7489	137,2924	284,2758	337,9009	240,3436	164,2987	105,7118
3	47,5944	141,9503	137,3109	273,5370	57,6900	68,7843	134,4661	299,1167	435,7574	208,3720	180,4579	124,4348
4	68,9646	147,6269	179,5231	261,0593	49,6172	72,5328	131,7273	242,9105	381,0672	275,6849	181,0714	107,6810
5	78,2161	182,3870	136,0342	331,3409	45,1817	62,3502	101,2644	335,0628	373,0181	259,8325	190,6688	124,6253
6	64,8420	146,8279	138,9545	181,7319	45,1499	61,5697	100,8350	124,1315	507,8545	244,4710	161,6368	135,7781
7	59,4234	136,2127	79,1275	230,0675	45,1499	61,5697	86,5333	138,9508	486,9573	227,3363	155,0328	134,2416
8	6,9305	128,4304	15,9874	208,0792	45,1499	61,5697	88,7513	139,1808	262,9424	208,9891	114,6011	89,1338
9	44,8752	122,5538	98,5458	243,2882	53,3145	48,7469	123,8012	271,7077	398,8757	181,3158	158,7025	115,6703
10	47,5944	149,5736	108,9543	274,6602	53,4826	68,7843	134,4661	299,1167	418,8065	208,3720	176,3810	122,3661
11	68,9646	147,2869	118,4357	261,0593	36,0454	72,5328	131,7273	242,9105	359,2828	291,3428	172,9588	108,7115
12	78,2161	180,8853	94,0469	331,3409	32,4669	62,3502	101,2644	335,0628	361,8050	274,6799	185,2118	128,3440
13	64,8420	146,8279	94,7402	181,7319	32,4485	61,5697	100,8350	124,1315	523,7815	244,4710	157,5379	143,0293
14	59,4234	136,2127	81,9573	230,0675	32,4485	61,5697	86,5333	138,9508	486,9573	227,3363	154,0457	135,2810
15	6,9305	128,4304	17,1486	208,0792	32,4485	61,5697	88,7513	139,1808	262,9424	208,9891	113,4471	90,1776
16	50,9369	90,1395	100,8992	168,9837	45,2357	50,8234	88,9354	259,8734	303,0547	136,0612	129,4942	89,5644
17	45,9658	89,4816	100,8992	156,5826	45,2357	50,5218	70,9687	260,1526	313,2582	130,2585	126,3345	92,8739
18	43,1004	92,5283	73,7852	134,8456	37,9285	40,2694	86,6040	206,2933	213,8869	120,0545	104,9296	64,3105
19	54,8250	115,7325	116,4373	219,9900	50,5905	51,8038	100,7594	237,1735	419,0788	162,0965	152,8487	114,6370
20	71,1095	135,9657	111,6884	198,0371	53,3438	70,4454	91,8098	249,9047	303,1438	212,4866	149,7935	86,0178
21	81,7455	184,2527	109,4175	247,5599	45,1817	62,3502	81,9063	312,5777	314,3887	209,3516	164,8732	102,7773
22	65,7808	149,8686	131,3308	175,3929	45,1499	61,5697	87,9240	124,2971	481,4392	244,4710	156,7224	128,9869
23	60,3025	129,5346	108,6380	223,2844	45,1499	61,5697	74,2476	142,0687	449,2463	227,2894	152,1331	122,7632
24	7,2388	128,4304	27,6831	208,0792	45,1499	61,5697	59,2051	139,1530	262,9424	208,9891	114,8441	88,3376
25	67,2378	319,6289	82,6356	140,6358	42,7388	39,2010	50,5453	246,4990	464,4021	145,7660	159,9290	141,6685
26	61,3742	292,0546	82,6356	115,8798	42,7388	38,9505	32,1880	252,2314	422,2918	162,5501	150,2895	131,7420
27	51,3393	212,2788	52,4608	86,4207	42,1286	70,7158	30,0491	177,0773	241,4371	80,9033	104,4811	76,4692
28	50,1267	167,7573	72,2273	100,3667	26,3741	26,1490	27,3681	145,8732	207,8314	67,4470	89,1561	64,6468
29	54,8927	148,2685	103,6009	235,5740	46,6968	43,1328	65,4654	276,9514	610,4229	156,0643	174,1070	173,2351
30	61,6840	94,2655	106,9939	266,0086	55,9104	58,9792	57,7913	121,1778	530,3539	189,5318	154,2696	148,5986
31	71,4610	158,7499	113,0326	272,8592	47,5740	58,8462	67,4547	178,9597	744,0870	205,3796	191,8404	207,5408
32	61,5263	136,3621	130,8954	178,7396	54,0880	58,0953	73,1343	118,3626	492,2329	216,6639	152,0100	131,3547
33	56,2927	119,7740	110,9307	230,9549	54,0880	58,0953	74,2394	122,1374	400,7773	210,0959	143,7386	109,5674
34	7,2388	118,7683	27,6831	209,8953	54,0880	58,0953	59,1688	121,5832	262,9424	193,0419	111,2505	85,7657
35	49,5155	157,0874	42,2209	120,0955	26,7270	16,3292	79,0397	131,6596	154,1368	110,6763	88,7488	52,6522
36	42,8361	139,9126	42,2209	104,4486	26,7270	14,9172	50,4037	133,1896	181,2756	283,2141	101,9145	84,6724

(continua na página seguinte)

Tabela A.16 - RETORNO ESCALONADO

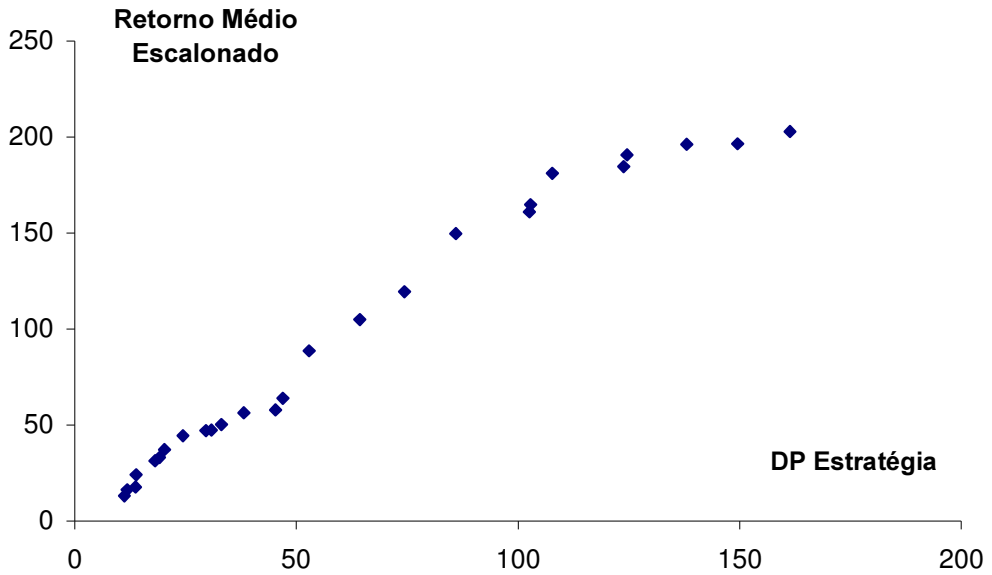
ESTRATÉGIA	TNLP4	PETR4	TSPP4	BBDC4	EBTP4	ELET6	EMBR4	VALE5	ITAUA	PETR3	Média	DP	(continuação)	
													Período: 94/OUT-02	SHEW
37	34,6308	131,1753	35,4047	56,9371	37,7309	13,6856	35,8328	97,1995	153,5908	42,5954	63,8783	46,9567		
38	40,4650	100,6190	22,8648	62,6905	19,2391	10,2370	28,1930	86,9833	92,7364	38,8166	50,2845	33,1191		
39	49,9224	76,9896	19,2588	75,1020	16,6247	7,3028	28,7173	88,9836	81,3212	29,0420	47,3264	30,8437		
40	45,0411	94,9933	55,4710	253,7846	36,2977	7,8895	102,7402	134,7279	250,1114	74,8132	105,5870	85,1728		
41	50,6549	99,2051	68,9923	231,7549	53,3465	28,8943	48,8839	113,4314	222,1585	179,8930	109,7215	75,3826		
42	51,3376	123,7801	76,2393	218,7424	53,0748	58,8462	67,6323	210,7120	391,5549	258,8914	151,0811	114,9868		
43	71,3197	110,5842	105,4901	153,0289	43,8638	58,0953	151,7243	144,7868	405,5416	180,1158	142,4530	102,8025		
44	65,5091	109,9270	99,9949	270,6583	43,8638	58,0953	73,7473	116,1807	429,5529	173,6225	144,1152	120,5702		
45	11,0487	108,9974	27,6310	209,8953	43,8638	58,0953	59,6434	115,5853	274,5654	163,2772	107,2603	85,6585		
46	32,6865	83,0551	38,3623	57,0823	17,6361	38,4793	38,3606	82,2357	45,8853	193,3972	62,7180	50,4370		
47	27,8320	84,7765	38,3623	49,3895	17,6361	38,4793	9,5438	93,4474	54,5535	137,3474	55,1367	39,3385		
48	23,2131	98,5737	32,8649	43,5358	25,0654	38,7861	10,2539	62,1111	41,9271	94,6157	47,0747	29,5584		
49	31,2255	52,1581	17,8978	64,1479	15,7958	38,0677	6,2853	56,2581	30,1618	59,7880	37,1786	20,2643		
50	32,2810	35,9074	11,6789	63,6412	12,2077	29,9729	8,5605	50,5280	31,4494	56,3637	33,2591	19,1371		
51	31,9624	26,4592	11,6789	56,1443	12,2077	22,5088	8,5605	52,4944	41,4641	51,7214	31,5222	18,1171		
52	33,4703	161,6659	47,5030	146,1682	32,3056	31,4955	47,3037	69,6843	163,8601	190,2178	92,3674	64,7409		
53	87,0044	58,9518	52,1747	129,7160	50,3098	30,3282	47,6296	72,4158	184,6427	425,4036	113,8577	118,7820		
54	67,2294	181,7824	52,7397	189,3537	45,5972	52,3790	54,8865	104,5077	402,1519	528,4619	167,9089	168,0020		
55	67,0398	104,0695	85,8049	109,6900	43,8638	51,6831	54,8865	100,3952	365,8573	178,9730	116,2263	96,1500		
56	77,5803	99,2264	99,4040	243,5022	43,8638	51,6831	73,7710	87,9637	244,2366	172,4943	119,3724	74,3277		
57	11,0581	108,9993	27,3187	212,8587	43,8638	51,6831	59,6634	79,0539	251,7897	162,2768	100,8546	81,9675		
58	7,4157	33,0049	23,8987	75,0980	15,6244	28,4580	25,8822	73,7053	29,4730	76,8776	38,9438	26,0857		
59	7,4157	33,8858	23,8987	65,2348	15,6244	26,7553	3,3658	81,6219	31,3053	52,7630	34,1871	25,2538		
60	10,2558	30,8228	14,5318	55,9984	14,4995	31,3113	3,5020	55,2698	30,1062	58,8648	30,5162	20,3276		
61	13,9999	26,5427	12,6526	32,4662	9,8401	26,3668	4,0569	49,7729	34,8408	30,9336	24,1472	13,9069		
62	14,3500	21,4032	9,9252	32,9432	6,7992	22,8330	3,5483	50,4929	30,0060	30,7458	22,3047	14,3301		
63	13,8715	14,2314	9,9252	29,1282	6,7992	18,3421	3,5483	55,9847	42,0652	29,8290	22,3725	16,7512		
64	11,8400	14,2314	10,7946	29,0177	4,4165	17,0245	3,5483	47,1933	40,9302	25,5198	20,4516	14,8857		
65	15,3167	43,8117	22,3185	128,1055	19,0148	18,6522	25,8864	52,8065	91,6249	73,9768	49,1314	37,9323		
66	13,3690	31,5405	22,3185	158,4294	22,6050	55,2648	44,3497	42,4789	86,4612	101,7170	57,7493	45,3294		
67	21,1280	83,5905	24,1849	85,1366	18,2616	26,2279	51,2325	42,4382	135,0255	77,6433	56,4910	38,1016		
68	16,8083	74,4859	34,0054	90,8820	43,9259	25,7514	51,2325	51,4912	171,6850	178,9730	73,9241	57,7107		
69	56,0562	97,7874	33,5332	378,5993	43,9259	25,7514	69,7121	81,1342	205,2134	172,4943	116,4207	109,3062		
70	1,9400	108,4306	26,3021	212,8587	42,2124	25,7514	56,5317	72,7921	247,7442	162,3372	96,6900	84,8959		
71	5,6037	21,2084	17,3159	48,3468	13,9075	21,5837	27,5831	70,3272	27,4783	51,4459	30,4801	19,9885		
72	5,6037	20,3152	17,3159	35,1944	13,9075	20,1838	1,5805	77,4427	28,8026	30,6889	25,1035	21,2205		

(continua na página seguinte)

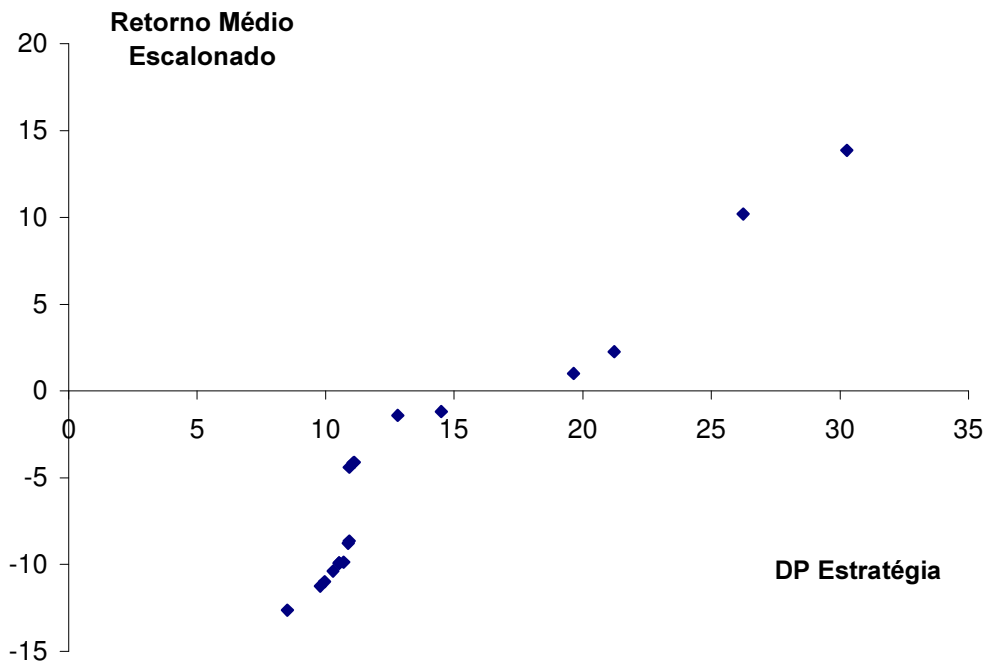
Tabela A.16 - RETORNO ESCALONADO

ESTRATÉGIA	Período: 94/OUT-02 SHEW											Média	DP
	TNLP4	PETRA	TSPP4	BBDCA	EBTP4	ELET6	EMBR4	VALE5	ITAUA	PETR3			
73	8,1548	18,7489	12,7781	36,3501	8,7913	18,7120	1,7656	54,6770	29,8736	34,8512	22,3702	16,1720	
74	7,1541	13,7950	10,9165	17,7681	9,9445	12,9252	2,2835	47,1647	35,1731	21,2647	17,8389	13,6589	
75	8,9202	11,8746	8,1365	17,7302	8,4209	13,6626	3,9380	44,2189	26,5678	20,1446	16,3614	11,8520	
76	8,4983	8,7578	8,1365	16,0909	8,4209	12,4399	3,9380	49,5936	27,8761	22,1141	16,5886	13,7019	
77	6,2569	8,7578	8,1365	16,0909	4,6500	11,5917	2,3714	43,0089	27,8761	15,3149	14,4055	12,4221	
78	6,2569	8,7578	8,3878	13,0237	4,6500	11,2083	2,3714	37,9786	27,8761	10,0812	13,0692	11,1771	
79	12,8386	41,5941	16,3604	62,8020	14,1884	17,9488	27,3799	85,9667	43,9232	45,2907	36,8283	24,0037	
80	10,7069	30,6836	20,1872	91,6431	25,3100	45,8222	46,7876	66,5223	44,8208	64,8511	44,6136	24,4260	
81	11,5321	137,3820	22,8775	27,0283	26,1668	13,0625	53,9480	26,3316	108,8492	161,8948	58,9073	55,8541	
82	10,4089	120,9571	41,5484	113,5285	45,6827	13,1085	53,9480	31,3747	160,2303	173,0084	76,3796	60,3460	
83	55,6266	134,2222	35,4558	367,2484	41,1727	1,4145	73,1641	125,0446	161,8011	172,1511	115,7301	102,5025	
84	1,9400	148,1786	27,3462	202,3231	30,1897	54,3113	59,4788	89,1783	281,4208	162,3372	105,6684	89,9917	
85	49,0006	171,4082	116,1105	306,3689	69,1827	74,9892	114,6232	279,4050	499,4043	278,3068	195,8799	142,9493	
86	80,1082	150,1090	118,5120	281,1801	55,1749	73,8394	110,0976	243,3131	430,9836	301,2365	184,4555	123,8866	
87	75,6144	199,8020	94,0998	381,6321	36,4996	66,3784	84,8012	291,6168	465,6487	270,4467	196,6540	149,5729	
88	64,9488	151,0740	94,7929	199,8252	32,4485	65,5639	80,3321	123,9835	635,9987	246,5848	169,5552	176,6801	
89	59,5338	136,2127	81,9573	230,0499	32,4485	65,5639	80,1650	138,7898	560,3333	227,3363	161,2391	155,7967	
90	6,4618	128,4304	17,1486	208,0792	32,4485	65,5639	64,2083	139,0196	293,2540	208,9891	116,3603	96,1509	
91	80,1082	161,0724	120,2643	274,5342	46,2994	76,8592	106,4286	315,1551	464,0605	316,2566	196,1039	138,1216	
92	75,6144	200,2254	90,5805	351,1740	36,4996	66,3784	81,8620	328,8628	520,6470	277,6886	202,9633	161,3176	
93	64,9488	149,9817	91,2546	203,5710	32,4485	65,5639	77,5170	138,0464	601,8673	246,5848	167,1784	166,8202	
94	59,5338	136,2127	81,9573	215,2284	32,4485	65,5639	80,1845	138,7898	532,4569	227,3363	156,9711	147,1862	
95	6,4618	128,4304	17,1486	208,0792	32,4485	65,5639	64,2083	142,4724	343,0502	209,0255	121,6889	107,0789	
96	69,1028	200,2254	90,5805	335,4070	38,2804	66,3784	81,4375	319,6378	545,6070	274,5423	202,1199	164,9161	
97	59,1020	149,9817	91,2546	220,2233	32,4485	65,5639	83,6342	138,0464	645,2693	246,5848	173,2109	179,9298	
98	54,0240	136,2127	81,9573	216,8011	32,4485	65,5639	80,1845	138,7898	538,6307	227,3363	157,1949	149,4205	
99	5,0936	128,4304	17,1486	209,6074	32,4485	65,5639	64,2083	142,4724	343,0502	209,0255	121,7049	107,3813	
100	59,1020	149,9817	91,2546	238,4130	32,4485	65,5639	83,6750	150,7339	626,4996	246,5848	174,4257	174,8943	
101	54,0240	136,2127	81,9573	223,1895	32,4485	65,5639	80,1845	151,5308	538,6307	227,3363	159,1078	149,5911	
102	5,0936	128,4304	17,1486	209,6074	32,4485	65,5639	64,2083	155,4811	343,0502	209,0255	123,0057	107,7390	
103	54,0240	136,2127	81,9573	248,2779	32,4485	65,5639	80,1845	151,5308	533,8233	227,3363	161,1359	149,6571	
104	5,0936	128,4304	17,1486	233,3973	32,4485	65,5639	64,2083	155,4811	343,0502	209,0255	125,3847	110,1005	
105	5,0936	128,4304	17,1486	233,3973	32,4485	65,5639	64,2083	155,4811	343,0502	209,0255	125,3847	110,1005	

(continuação)



**FIGURA A.128 Média Retorno Escalonado vs. DP Estratégia**  
 Melhores Estratégias - Período: 94/OUT-02 - SHEWHART



**FIGURA A.129 Média Retorno Escalonado vs. DP Estratégia**  
 Melhores Estratégias - Período: NOV-02/ABR-03 - SHEWHART