

# INTRODUCTION TO DIGITAL SPEECH PROCESSING

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Assignment No. - 01

## MATLAB CODE :

```
[y,Fs] = audioread('anshul.wav');
A = y;
p = 2*((Fs/2)/1000)+2+2; % Order of LPC analysis
Fr = 100; % Frame rate
T_time = 2; %Total time

Wt = 20/1000; %Window time duration
F = Fr*T_time; %Number of windows
Ovr lap_rat = F*Wt/T_time; % Overlap ratio=(No of windows*Window time
duration/Total time)

N = Fs*Wt; % Samples per window
alphas = zeros(p+1,F);
Corref = zeros(p+1,F);
G = zeros(F);

disp("OUTPUT STARTS HERE")
disp("Total number of available Windows :- "+int2str(F-1));
disp("Order of LPC analysis required :- "+int2str(p));
disp("Samples per window :- "+int2str(N));
disp("Overlap percentage between consecutive windows :-
"+num2str(100/Ovr lap_rat)+"%");
disp(' ');

for k = 1:F-1 %For all windows
    q = (k-1)*(N/Ovr lap_rat)+(1:N);
    frame = A(q);
    corr = xcorr(frame); %Cross-correlation
    r = corr(N:N+p)/N; %Normalized correlation coefficients
    R = toeplitz(r(1:p));
    c = r(2:p+1);
    a = [1; -R\c]; %LPC coefficient matrix

    disp("LPC coefficients for this window :- "+int2str(k));
    disp(a);

    alphas(:,k) = a;
    Error_MS = r(1);

    for t = 2:p+1
        Error_MS = Error_MS - a(t)*r(t); %Prediction error
    End
```

```

G(k) = sqrt(Error_MS); %Gain
disp(" Normalised Gain for this window is " + num2str(G(k)));
end

mean_coeff = mean(alphas,2);
standard_deviation_coeff = std(alphas,0,2);
r = 1:p+1;
plot(r,mean_coeff(1:p+1));
axis([1 p+1 -2 2]);

title("Mean corresponding to each coefficient");
xlabel("Sample number(time)");
ylabel("Mean");
snapnow;
disp(mean_coeff);

plot(r,standard_deviation_coeff(1:p+1));
axis([1 p+1 0 1]);
title("Standard Deviation corresponding to each coefficient");
xlabel("Sample number(time)");
ylabel("Standard Deviation");
snapnow;
disp(standard_deviation_coeff);

```

## **OUTPUT STARTS HERE**

Total number of available Windows :- 199

Order of LPC analysis required :- 20

Samples per window :- 320

Overlap percentage between consecutive windows :- 50%

LPC coefficients for this window :- 1

```

1.0000
-1.8443
1.3067
-0.5351
0.1837
-0.0985
0.1179
-0.0702
0.0526
-0.0336
-0.0164
0.1614
-0.1759
-0.0276

```

0.0602  
0.0143  
0.0537  
-0.0770  
-0.0365  
0.0639  
0.0230

Normalised Gain for this window is 0.0085142  
LPC coefficients for this window :- 2

1.0000  
-1.7157  
1.0232  
-0.3110  
0.2411  
-0.2792  
0.1521  
-0.0345  
0.0216  
0.0677  
0.0265  
-0.0939  
0.0216  
0.0573  
-0.2726  
0.2677  
0.1370  
-0.2503  
0.0478  
0.0199  
0.0319

Normalised Gain for this window is 0.0076647  
LPC coefficients for this window :- 3

1.0000  
-1.6489  
0.9140  
-0.4154  
0.5757  
-0.7185  
0.4541  
-0.2637  
0.2679  
-0.1202

0.0064  
0.0561  
-0.1649  
0.2227  
-0.3126  
0.1704  
0.2460  
-0.3127  
0.0926  
-0.0124  
-0.0130

Normalised Gain for this window is 0.0092919

LPC coefficients for this window :- 4

1.0000  
-1.3472  
0.2659  
-0.0423  
0.3858  
-0.3007  
0.1235  
-0.0700  
0.1275  
-0.1561  
0.0078  
0.1634  
-0.2765  
0.1506  
-0.0474  
0.0019  
0.1368  
-0.2270  
0.1924  
-0.0824  
0.0107

Normalised Gain for this window is 0.01274

LPC coefficients for this window :- 5

1.0000  
-1.4457  
0.4291  
-0.2810  
0.6408  
-0.3889

0.1507  
-0.1161  
0.1910  
-0.0974  
-0.1049  
0.1067  
-0.3071  
0.2669  
-0.0613  
-0.0354  
0.1327  
-0.1861  
0.2530  
-0.2776  
0.1468

Normalised Gain for this window is 0.015704

LPC coefficients for this window :- 6

1.0000  
-1.5222  
0.4089  
0.0206  
0.4372  
-0.3766  
0.1340  
-0.0372  
0.1515  
-0.2157  
-0.0970  
0.1239  
-0.1196  
0.1922  
-0.0699  
-0.0923  
0.1905  
-0.2002  
0.0791  
-0.1309  
0.1461

Normalised Gain for this window is 0.014528

LPC coefficients for this window :- 7

1.0000  
-1.6052

0.4745  
0.0744  
0.3556  
-0.3189  
0.1766  
-0.0650  
-0.0964  
-0.0308  
-0.0049  
0.2275  
-0.2351  
0.1139  
-0.0406  
-0.0738  
0.2021  
-0.1555  
0.0742  
-0.1267  
0.1050

Normalised Gain for this window is 0.013157

LPC coefficients for this window :- 8

1.0000  
-2.0874  
1.6345  
-1.0279  
1.1897  
-1.4297  
1.3953  
-0.9968  
0.6648  
-0.7872  
0.7100  
-0.1756  
-0.1687  
0.0982  
0.0037  
0.0513  
-0.0916  
-0.0121  
0.1652  
-0.2177  
0.1157

Normalised Gain for this window is 0.013745

LPC coefficients for this window :- 9

1.0000  
-1.4971  
0.4384  
-0.0019  
0.1185  
-0.0095  
0.0625  
0.0145  
-0.0998  
-0.0304  
0.0414  
0.0251  
-0.0405  
-0.0315  
0.0006  
0.0969  
0.0005  
-0.0900  
0.0613  
-0.0856  
0.0814

Normalised Gain for this window is 0.014059

LPC coefficients for this window :- 10

1.0000  
-1.6596  
0.6727  
-0.0234  
0.0789  
0.0213  
-0.0157  
0.0054  
-0.0629  
-0.0993  
0.0674  
0.0253  
0.0140  
0.0637  
-0.0757  
-0.0058  
-0.0166  
-0.0332

0.0866  
-0.0321  
0.0016

Normalised Gain for this window is 0.021201

LPC coefficients for this window :- 11

1.0000  
-1.5389  
0.5325  
0.0032  
0.1203  
-0.0328  
0.0341  
-0.0949  
-0.0386  
0.1054  
-0.1604  
-0.0046  
0.1403  
-0.0657  
0.0455  
-0.0198  
-0.0128  
0.0090  
-0.0843  
0.0810  
-0.0102

Normalised Gain for this window is 0.021171

LPC coefficients for this window :- 12

1.0000  
-1.4533  
0.4374  
0.0384  
0.2589  
-0.1891  
-0.0754  
-0.0002  
-0.0295  
0.1326  
-0.1477  
0.0199  
0.1033  
-0.2054



0.0736  
0.1791  
-0.1021  
-0.0300  
-0.0451  
0.0543  
-0.0026

Normalised Gain for this window is 0.012539

LPC coefficients for this window :- 13

1.0000  
-1.7676  
0.9481  
-0.1309  
0.2551  
-0.2886  
0.0029  
-0.1605  
0.2462  
0.1160  
-0.3797  
0.1509  
0.0311  
-0.1623  
0.2112  
0.0529  
-0.1674  
0.0506  
-0.0920  
0.1272  
-0.0241

Normalised Gain for this window is 0.011057

LPC coefficients for this window :- 14

1.0000  
-2.0694  
1.5182  
-0.4700  
0.2231  
-0.1951  
0.0255  
-0.2430  
0.4733  
-0.1609

-0.3161  
0.4097  
-0.2571  
-0.0712  
0.2619  
-0.1342  
0.0658  
-0.1224  
-0.0344  
0.1297  
-0.0137

Normalised Gain for this window is 0.01395

LPC coefficients for this window :- 15

1.0000  
-1.9634  
1.1678  
-0.0348  
-0.0404  
-0.1301  
0.0656  
-0.1827  
0.2400  
0.0295  
-0.2019  
0.0851  
0.0037  
-0.0319  
-0.0232  
-0.0157  
0.0545  
0.0379  
-0.1104  
-0.0052  
0.0815

Normalised Gain for this window is 0.016143

LPC coefficients for this window :- 16

1.0000  
-1.8742  
0.9424  
0.0171  
0.0810  
-0.0930

-0.0123  
-0.0760  
0.0292  
0.1262  
-0.0349  
-0.0704  
0.0532  
-0.0460  
-0.0331  
0.0237  
-0.0715  
0.1532  
-0.1164  
0.0861  
-0.0469

Normalised Gain for this window is 0.024897

LPC coefficients for this window :- 17

1.0000  
-1.6380  
0.5844  
0.1123  
0.0808  
-0.0414  
0.0420  
-0.0468  
-0.1010  
0.1159  
-0.0045  
-0.0249  
0.0435  
-0.0821  
0.0525  
-0.0355  
-0.0671  
0.0741  
-0.0303  
0.0805  
-0.0582

Normalised Gain for this window is 0.029631

LPC coefficients for this window :- 18

1.0000  
-1.8018

0.7923  
0.1041  
0.0843  
-0.1428  
0.0966  
-0.0189  
-0.1652  
0.1303  
0.0083  
-0.0067  
0.0338  
-0.1650  
0.0998  
0.0858  
-0.1364  
0.1120  
-0.0962  
-0.0106  
0.0586

Normalised Gain for this window is 0.030826

LPC coefficients for this window :- 19

1.0000  
-1.5544  
0.4165  
0.2084  
0.0827  
-0.0473  
0.0407  
-0.0422  
-0.0194  
0.0508  
-0.0576  
-0.0024  
-0.0117  
0.0064  
0.0803  
-0.0297  
-0.0323  
-0.0025  
-0.0388  
0.0070  
0.0480

Normalised Gain for this window is 0.029126

LPC coefficients for this window :- 20

1.0000  
-1.7032  
0.6628  
0.1639  
0.0425  
-0.0890  
-0.0168  
0.0058  
-0.0113  
0.0928  
-0.0368  
-0.0955  
0.0811  
0.0495  
-0.0405  
-0.0329  
-0.0190  
0.0346  
0.0148  
-0.0734  
0.0579

Normalised Gain for this window is 0.022408

LPC coefficients for this window :- 21

1.0000  
-1.7449  
0.7929  
0.0573  
0.0279  
-0.0279  
-0.0546  
-0.0112  
0.1289  
0.0083  
-0.1438  
0.0020  
0.1155  
0.0420  
-0.0564  
-0.0759  
0.0037  
0.0280

0.0526  
-0.0409  
-0.0050

Normalised Gain for this window is 0.020296  
LPC coefficients for this window :- 22

1.0000  
-1.5414  
0.5234  
0.0401  
0.1380  
-0.0244  
-0.0704  
-0.0043  
0.0785  
0.0716  
-0.1236  
0.0284  
0.0228  
-0.0781  
0.0077  
0.0089  
0.0296  
-0.0345  
0.0618  
0.0089  
-0.0985

Normalised Gain for this window is 0.021511  
LPC coefficients for this window :- 23

1.0000  
-1.8818  
1.1169  
-0.2906  
0.1923  
-0.0339  
-0.1603  
0.1660  
0.0123  
-0.0384  
-0.0083  
0.0217  
-0.0168  
-0.0562

-0.0369  
0.0313  
0.1198  
-0.1290  
0.0608  
-0.0392  
-0.0033

Normalised Gain for this window is 0.02306  
LPC coefficients for this window :- 24

1.0000  
-1.5440  
0.4908  
0.0510  
0.0620  
0.0345  
-0.0244  
0.0228  
-0.0203  
-0.0301  
0.0756  
-0.0716  
-0.0164  
0.0448  
-0.0688  
0.0485  
0.0334  
-0.0886  
-0.0034  
-0.0066  
0.0525

Normalised Gain for this window is 0.022627  
LPC coefficients for this window :- 25

1.0000  
-1.6216  
0.6558  
-0.0609  
0.0761  
0.0243  
-0.0009  
-0.0237  
-0.0568  
0.0635

-0.0220  
0.0341  
0.0552  
-0.1389  
-0.0005  
0.0155  
-0.0377  
0.0726  
-0.0086  
-0.0354  
0.0507

Normalised Gain for this window is 0.017652

LPC coefficients for this window :- 26

1.0000  
-1.3543  
0.3505  
0.0618  
0.0247  
-0.0602  
-0.0112  
0.0254  
0.0460  
-0.0064  
-0.0754  
0.0507  
0.0179  
-0.0916  
0.0306  
0.0041  
-0.0561  
0.0479  
0.0079  
0.0083  
0.0315

Normalised Gain for this window is 0.01341

LPC coefficients for this window :- 27

1.0000  
-1.4438  
0.4956  
-0.0391  
-0.0091  
0.0395



-0.0407  
0.0734  
-0.0035  
-0.0723  
0.0157  
0.0782  
-0.0221  
-0.0945  
0.1121  
-0.0167  
-0.1059  
0.0282  
-0.0076  
-0.0353  
0.0978

Normalised Gain for this window is 0.011527

LPC coefficients for this window :- 28

1.0000  
-1.5033  
0.5267  
-0.0200  
0.1120  
0.0172  
-0.0008  
-0.1460  
0.0096  
0.0340  
0.0046  
0.0919  
-0.0815  
-0.0879  
0.1486  
0.0105  
-0.0743  
-0.0255  
0.0449  
0.0548  
-0.0627

Normalised Gain for this window is 0.0086797

LPC coefficients for this window :- 29

1.0000  
-2.0277

1.6791  
-1.1146  
1.0375  
-0.7992  
0.4972  
-0.3031  
-0.1325  
0.3366  
-0.0644  
-0.0515  
0.0348  
-0.2993  
0.3995  
-0.1176  
-0.0082  
-0.0045  
-0.0774  
0.1478  
-0.1009

Normalised Gain for this window is 0.0083332

LPC coefficients for this window :- 30

1.0000  
-1.5488  
0.6668  
-0.0722  
0.1548  
-0.1128  
0.1166  
-0.0255  
-0.2744  
0.2001  
0.0964  
-0.1476  
0.0266  
-0.0117  
-0.0097  
-0.0203  
0.0635  
0.0325  
-0.0461  
0.0514  
-0.0929

Normalised Gain for this window is 0.0088306

LPC coefficients for this window :- 31

1.0000  
-1.9169  
1.5859  
-1.1235  
1.0172  
-0.7787  
0.5653  
-0.1835  
-0.3925  
0.5496  
-0.2982  
0.0384  
-0.0106  
-0.0218  
0.0897  
-0.1403  
0.1604  
-0.1159  
0.0205  
0.1164  
-0.1216

Normalised Gain for this window is 0.0088882

LPC coefficients for this window :- 32

1.0000  
-1.9220  
1.5298  
-1.0289  
0.9831  
-0.8124  
0.6478  
-0.5566  
0.2145  
0.1114  
-0.1645  
-0.0689  
0.1099  
0.0425  
-0.1444  
0.2576  
-0.3147  
0.1337

0.0001  
0.1795  
-0.1706

Normalised Gain for this window is 0.0098366

LPC coefficients for this window :- 33

1.0000  
-1.5552  
0.6398  
-0.0006  
0.0921  
-0.0146  
-0.0786  
-0.1237  
0.1145  
0.0365  
-0.1464  
-0.0536  
0.0815  
0.0689  
-0.0984  
0.0318  
-0.0055  
-0.0629  
0.0809  
0.1095  
-0.0904

Normalised Gain for this window is 0.013144

LPC coefficients for this window :- 34

1.0000  
-2.0172  
1.5821  
-0.8348  
0.6287  
-0.3990  
0.1806  
-0.3981  
0.6050  
-0.5259  
0.1632  
0.0240  
-0.1450  
0.3226

-0.3545  
0.2848  
-0.3613  
0.4108  
-0.2887  
0.2067  
-0.0762

Normalised Gain for this window is 0.017235

LPC coefficients for this window :- 35

1.0000  
-1.5391  
0.4741  
0.1358  
0.0710  
-0.0952  
-0.0856  
0.0219  
0.0959  
-0.1109  
-0.0085  
0.0826  
-0.0771  
0.0545  
0.0642  
-0.0459  
-0.0870  
0.0492  
0.0372  
-0.0130  
-0.0103

Normalised Gain for this window is 0.017712

LPC coefficients for this window :- 36

1.0000  
-2.0236  
1.3833  
-0.4018  
0.1554  
-0.1107  
-0.0361  
0.0608  
0.0188  
-0.0392

0.0304  
-0.0584  
-0.0182  
0.1121  
-0.0188  
0.0019  
-0.1654  
0.1094  
0.1344  
-0.2346  
0.1171

Normalised Gain for this window is 0.015417

LPC coefficients for this window :- 37

1.0000  
-1.9727  
1.2642  
-0.3535  
0.3520  
-0.4985  
0.3559  
-0.0846  
-0.1113  
0.2006  
-0.1520  
-0.0097  
-0.0655  
0.2001  
-0.1720  
0.0264  
0.1034  
-0.2255  
0.4595  
-0.6104  
0.3154

Normalised Gain for this window is 0.014024

LPC coefficients for this window :- 38

1.0000  
-1.5906  
0.4769  
0.1262  
0.1671  
-0.1115

-0.0204  
0.0228  
-0.0288  
0.0629  
-0.0023  
-0.1685  
0.0392  
0.1651  
-0.1263  
0.0094  
0.0641  
-0.0041  
0.0647  
-0.3163  
0.2370

Normalised Gain for this window is 0.015086

LPC coefficients for this window :- 39

1.0000  
-1.4324  
0.3207  
0.0900  
0.0678  
0.0297  
-0.0031  
-0.0057  
-0.0417  
0.0135  
0.0159  
-0.0560  
-0.0004  
0.0573  
0.0328  
-0.0244  
0.0115  
0.0417  
-0.0704  
-0.0281  
0.0577

Normalised Gain for this window is 0.023389

LPC coefficients for this window :- 40

1.0000  
-1.5980

0.5105  
0.0750  
0.1128  
0.0287  
0.0417  
-0.1509  
-0.1411  
0.1796  
-0.0007  
-0.0810  
0.0816  
-0.0033  
0.0331  
0.0248  
-0.1476  
-0.0106  
0.1237  
0.0979  
-0.0996

Normalised Gain for this window is 0.026401  
LPC coefficients for this window :- 41

1.0000  
-1.4307  
0.3818  
0.0733  
0.1038  
0.0396  
0.0170  
-0.0706  
-0.1203  
0.0092  
0.0770  
0.0126  
-0.0059  
-0.0196  
0.0220  
0.0577  
-0.1064  
-0.0619  
0.1016  
0.1008  
-0.0328



Normalised Gain for this window is 0.020678

LPC coefficients for this window :- 42

1.0000  
-1.8216  
0.9601  
-0.1280  
0.2712  
-0.2323  
0.0428  
-0.1340  
-0.0399  
0.2176  
0.0807  
-0.2060  
-0.0461  
-0.0511  
0.2642  
-0.0386  
-0.0924  
-0.0742  
-0.1559  
0.4431  
-0.1797

Normalised Gain for this window is 0.015518

LPC coefficients for this window :- 43

1.0000  
-2.3983  
2.3583  
-1.7577  
1.9940  
-2.3205  
2.1696  
-2.1094  
2.0428  
-1.7207  
1.7777  
-2.0825  
1.9906  
-1.7913  
1.6845  
-1.3803  
1.2269  
-1.3575

0.9295  
-0.1787  
-0.0312

Normalised Gain for this window is 0.019339  
LPC coefficients for this window :- 44

1.0000  
-2.1216  
1.3854  
-0.3264  
0.6183  
-0.9258  
0.4256  
-0.1016  
0.1752  
0.0576  
-0.1766  
-0.1878  
0.3350  
-0.0689  
-0.1158  
0.0603  
0.2445  
-0.5003  
0.1414  
0.2526  
-0.1198

Normalised Gain for this window is 0.025154  
LPC coefficients for this window :- 45

1.0000  
-1.7975  
0.8504  
0.0176  
0.1126  
-0.2076  
-0.0039  
0.1663  
-0.0277  
-0.0102  
-0.0431  
-0.1082  
0.1503  
0.0296

-0.0619  
-0.0086  
0.0344  
-0.1051  
-0.0071  
0.1572  
-0.0517

Normalised Gain for this window is 0.024929

LPC coefficients for this window :- 46

1.0000  
-2.3129  
1.8436  
-0.4960  
0.3573  
-0.8612  
0.6161  
-0.0472  
0.1324  
-0.2654  
-0.0238  
0.0836  
0.1066  
-0.1330  
0.1910  
-0.2208  
-0.0432  
0.2029  
-0.0376  
-0.0907  
0.0600

Normalised Gain for this window is 0.021109

LPC coefficients for this window :- 47

1.0000  
-1.7924  
0.9247  
0.0379  
-0.0109  
-0.1602  
-0.0048  
0.1943  
-0.0253  
-0.0463

-0.0515  
-0.0046  
0.0351  
0.0268  
0.0755  
-0.1591  
-0.0445  
0.1459  
-0.0641  
0.0596  
-0.0342

Normalised Gain for this window is 0.016928

LPC coefficients for this window :- 48

1.0000  
-1.8250  
1.0046  
0.0258  
-0.0842  
-0.1633  
0.1344  
0.0141  
0.0600  
0.0172  
-0.0707  
-0.0898  
0.0806  
0.0814  
-0.0301  
-0.1330  
-0.0703  
0.2578  
-0.1546  
0.1012  
-0.0754

Normalised Gain for this window is 0.014494

LPC coefficients for this window :- 49

1.0000  
-2.5742  
3.0813  
-2.4806  
1.9604  
-2.1010

2.5329  
-2.6679  
2.4301  
-1.9741  
1.7376  
-1.7687  
1.7345  
-1.4364  
0.9593  
-0.6113  
0.4278  
-0.3774  
0.2682  
-0.0593  
-0.0373

Normalised Gain for this window is 0.013243

LPC coefficients for this window :- 50

1.0000  
-1.6665  
0.7587  
0.0454  
0.0415  
-0.1067  
0.0075  
-0.0261  
-0.0248  
0.1085  
0.0246  
-0.0662  
-0.0000  
-0.0716  
-0.0482  
0.1419  
-0.0907  
0.0496  
-0.0314  
-0.0360  
0.0173

Normalised Gain for this window is 0.014413

LPC coefficients for this window :- 51

1.0000  
-2.0171

1.4050  
-0.4447  
0.3374  
-0.2279  
-0.0065  
0.0079  
-0.1524  
0.1106  
0.2713  
-0.1910  
-0.1015  
-0.1759  
0.1295  
0.3534  
-0.3401  
0.0819  
-0.0582  
0.0099  
0.0213

Normalised Gain for this window is 0.015298

LPC coefficients for this window :- 52

1.0000  
-1.6837  
0.8516  
0.0075  
-0.0436  
-0.0015  
0.1215  
-0.2496  
-0.0458  
0.1905  
-0.0246  
0.0468  
-0.1094  
-0.1758  
0.0784  
0.1830  
-0.0123  
-0.1648  
0.0256  
0.0990  
-0.0765

Normalised Gain for this window is 0.013096

LPC coefficients for this window :- 53

1.0000  
-1.8954  
1.2531  
-0.3057  
0.1482  
-0.2967  
0.3165  
-0.1038  
-0.2238  
0.1961  
0.0586  
-0.1204  
0.0144  
-0.1221  
0.0352  
0.3580  
-0.3726  
0.0070  
0.2198  
-0.1125  
-0.0312

Normalised Gain for this window is 0.011358

LPC coefficients for this window :- 54

1.0000  
-1.9321  
1.3883  
-0.4664  
0.3911  
-0.6099  
0.5849  
-0.3105  
-0.1614  
0.3801  
-0.2127  
-0.0074  
0.1023  
-0.1640  
-0.0742  
0.4249  
-0.3239  
-0.0347

0.2253  
-0.1465  
0.0031

Normalised Gain for this window is 0.0089075  
LPC coefficients for this window :- 55

1.0000  
-1.8741  
1.1772  
-0.2223  
0.4066  
-0.7181  
0.6148  
-0.5488  
0.1678  
0.2493  
-0.3190  
0.0725  
0.2127  
-0.3052  
-0.1946  
0.6145  
-0.2451  
-0.2708  
0.3692  
-0.2850  
0.1617

Normalised Gain for this window is 0.0088166  
LPC coefficients for this window :- 56

1.0000  
-1.7349  
0.8225  
0.0551  
0.2399  
-0.4607  
0.1760  
-0.1896  
0.1226  
0.1069  
-0.2548  
0.1731  
-0.0080  
-0.0336



-0.1397  
0.2211  
0.0306  
-0.2216  
0.2203  
-0.2146  
0.1478

Normalised Gain for this window is 0.012201

LPC coefficients for this window :- 57

1.0000  
-1.6032  
0.6024  
0.1141  
0.1419  
-0.2520  
-0.0045  
-0.0062  
-0.0004  
-0.0202  
0.0650  
0.0664  
-0.1789  
0.1170  
-0.0465  
-0.0333  
0.1727  
-0.0918  
0.0292  
-0.1702  
0.1516

Normalised Gain for this window is 0.012875

LPC coefficients for this window :- 58

1.0000  
-1.7205  
0.7722  
0.0101  
0.1495  
-0.2273  
0.0520  
-0.0811  
0.0218  
0.1432

-0.1109  
-0.0483  
0.0034  
0.1533  
-0.0383  
-0.1295  
0.1066  
0.0225  
0.0285  
-0.2192  
0.1497

Normalised Gain for this window is 0.012247

LPC coefficients for this window :- 59

1.0000  
-1.7760  
0.9132  
-0.1421  
0.0890  
-0.0456  
0.0110  
0.0735  
-0.0163  
-0.0172  
-0.1174  
-0.0742  
0.1460  
0.1689  
-0.0871  
-0.1842  
0.0683  
0.0261  
0.0083  
-0.0263  
0.0308

Normalised Gain for this window is 0.014283

LPC coefficients for this window :- 60

1.0000  
-1.8799  
1.2099  
-0.3161  
0.0176  
-0.0642

0.1714  
-0.0402  
-0.0039  
0.0675  
-0.1316  
-0.0059  
0.0485  
0.0762  
-0.0673  
-0.1121  
-0.0006  
0.0276  
0.1105  
-0.0041  
-0.0563

Normalised Gain for this window is 0.016127

LPC coefficients for this window :- 61

1.0000  
-1.4174  
0.4826  
0.0732  
-0.0137  
-0.0294  
0.0045  
0.0695  
0.0476  
-0.0051  
-0.0302  
-0.0131  
0.0156  
0.0215  
-0.0246  
-0.0973  
-0.0418  
0.0330  
0.0738  
0.0849  
-0.0887

Normalised Gain for this window is 0.016151

LPC coefficients for this window :- 62

1.0000  
-1.7989

1.0921  
-0.2551  
0.1187  
-0.2701  
0.2001  
0.0024  
0.0001  
-0.0687  
0.0825  
0.0554  
-0.1693  
0.1314  
-0.1305  
0.0379  
-0.0114  
-0.1543  
0.1365  
0.1462  
-0.0976

Normalised Gain for this window is 0.01466

LPC coefficients for this window :- 63

1.0000  
-1.4335  
0.4953  
0.0358  
-0.0193  
-0.0439  
0.0520  
-0.0490  
-0.0551  
0.0278  
0.0884  
0.0518  
-0.1294  
-0.0426  
0.0502  
-0.0008  
-0.0560  
-0.0566  
0.0317  
0.0678  
0.0563

Normalised Gain for this window is 0.017758

LPC coefficients for this window :- 64

1.0000  
-1.5303  
0.6040  
0.0152  
-0.0509  
-0.0291  
0.0884  
-0.0788  
-0.0357  
0.0770  
0.0176  
0.0200  
-0.0586  
-0.0383  
0.0454  
-0.0082  
-0.0789  
-0.0615  
0.0812  
0.0448  
0.0272

Normalised Gain for this window is 0.019995

LPC coefficients for this window :- 65

1.0000  
-1.9188  
1.2438  
-0.2962  
-0.0057  
0.0529  
0.0714  
-0.0737  
-0.0859  
0.0469  
-0.0036  
0.1230  
-0.1073  
-0.0906  
0.1789  
-0.0988  
-0.1283  
0.0830

0.1540  
-0.2116  
0.0969

Normalised Gain for this window is 0.017987

LPC coefficients for this window :- 66

1.0000  
-1.3892  
0.3564  
0.0979  
0.0302  
0.0635  
0.0167  
-0.0340  
-0.0242  
-0.0281  
-0.0184  
-0.0106  
-0.0116  
0.0264  
0.0457  
-0.0099  
-0.0644  
-0.0116  
0.0218  
-0.0097  
0.0127

Normalised Gain for this window is 0.015153

LPC coefficients for this window :- 67

1.0000  
-1.7877  
0.9016  
-0.0558  
0.0638  
-0.0498  
0.0118  
-0.0059  
-0.1181  
-0.0364  
0.1564  
0.0381  
-0.1359  
-0.0773

0.1578  
-0.0531  
-0.0415  
0.2194  
-0.1990  
-0.0410  
0.0883

Normalised Gain for this window is 0.014853  
LPC coefficients for this window :- 68

1.0000  
-1.3977  
0.3889  
0.0332  
0.0498  
0.0403  
-0.0533  
0.0090  
-0.0213  
-0.0414  
0.0571  
-0.0183  
-0.0150  
-0.0103  
-0.0192  
-0.0140  
0.0164  
0.1113  
-0.0552  
-0.1012  
0.0853

Normalised Gain for this window is 0.015632  
LPC coefficients for this window :- 69

1.0000  
-1.9006  
1.2521  
-0.3755  
0.1299  
-0.1132  
0.0951  
-0.0901  
0.0132  
0.0378

0.0124  
0.0113  
-0.0737  
0.0098  
0.0095  
-0.0814  
0.1104  
0.1074  
-0.3339  
0.1944  
0.0087

Normalised Gain for this window is 0.014067

LPC coefficients for this window :- 70

1.0000  
-1.7232  
0.8015  
0.1295  
-0.0306  
-0.2456  
0.0915  
0.1159  
-0.0603  
-0.0017  
0.0272  
-0.0799  
-0.0596  
0.0912  
0.0724  
-0.0932  
0.0169  
0.0349  
-0.1596  
0.0969  
0.0160

Normalised Gain for this window is 0.011114

LPC coefficients for this window :- 71

1.0000  
-2.0476  
1.5506  
-0.6821  
0.7278  
-0.8915



0.4072  
0.0563  
0.0273  
-0.0621  
-0.1351  
0.0756  
-0.1377  
0.2337  
0.0132  
-0.1786  
-0.0163  
0.2314  
-0.1611  
-0.0736  
0.1168

Normalised Gain for this window is 0.010227

LPC coefficients for this window :- 72

1.0000  
-2.0265  
1.4302  
-0.6227  
0.7630  
-0.7558  
0.1096  
0.2937  
-0.1496  
0.0941  
-0.2392  
0.1320  
-0.0326  
0.0453  
0.1120  
-0.2583  
0.0931  
0.1504  
-0.0738  
-0.1115  
0.0973

Normalised Gain for this window is 0.012019

LPC coefficients for this window :- 73

1.0000  
-1.9088

1.1491  
-0.3722  
0.5052  
-0.4427  
-0.0628  
0.2816  
-0.0576  
-0.1165  
0.0339  
0.0333  
0.0571  
-0.1572  
0.1193  
-0.0215  
-0.1325  
0.3230  
-0.2010  
-0.0490  
0.0639

Normalised Gain for this window is 0.010785  
LPC coefficients for this window :- 74

1.0000  
-1.9673  
1.4784  
-1.0068  
1.2259  
-1.1214  
0.4900  
-0.1029  
0.1622  
-0.2788  
0.1062  
0.1315  
-0.0650  
-0.1439  
0.1666  
0.0068  
-0.1176  
0.2155  
-0.1640  
-0.0138  
0.0319

Normalised Gain for this window is 0.0085071

LPC coefficients for this window :- 75

1.0000  
-1.7342  
0.9678  
-0.5369  
0.7819  
-0.5739  
0.1321  
0.0688  
-0.1044  
-0.0529  
0.0498  
0.1522  
-0.1008  
-0.1480  
0.1501  
0.1019  
-0.2120  
0.1612  
-0.0699  
-0.0136  
0.0158

Normalised Gain for this window is 0.0082158

LPC coefficients for this window :- 76

1.0000  
-1.9342  
1.4107  
-0.8325  
0.7853  
-0.6026  
0.3185  
-0.0073  
-0.2395  
0.1193  
-0.0176  
0.1369  
-0.0885  
-0.0932  
0.1435  
0.0457  
-0.1528  
0.0333

-0.0096  
0.0678  
-0.0454

Normalised Gain for this window is 0.0083384  
LPC coefficients for this window :- 77

1.0000  
-1.3998  
0.4043  
0.0776  
-0.0476  
-0.0009  
0.0298  
0.0397  
-0.0288  
-0.0666  
0.0404  
0.0149  
-0.0115  
0.0296  
0.0183  
-0.0213  
0.0046  
-0.0153  
-0.0394  
-0.0206  
0.0620

Normalised Gain for this window is 0.010669  
LPC coefficients for this window :- 78

1.0000  
-2.0472  
1.6442  
-0.7785  
0.2463  
-0.0994  
0.0597  
-0.0528  
0.1768  
-0.2712  
0.2993  
-0.2377  
0.1195  
0.0590

-0.1726  
0.2420  
-0.2479  
0.1867  
-0.1567  
-0.0922  
0.1687

Normalised Gain for this window is 0.011808

LPC coefficients for this window :- 79

1.0000  
-1.3802  
0.3471  
0.1592  
-0.0230  
-0.0606  
-0.0635  
0.0942  
0.0578  
-0.0525  
0.0229  
-0.0693  
-0.0091  
0.0793  
0.0743  
-0.0225  
-0.0730  
-0.0239  
-0.0019  
-0.0135  
0.0508

Normalised Gain for this window is 0.0099465

LPC coefficients for this window :- 80

1.0000  
-1.9312  
1.1706  
-0.2117  
0.0876  
-0.0811  
-0.0462  
0.0338  
0.2184  
-0.1759

-0.0645  
0.0944  
-0.1402  
0.2000  
-0.0171  
-0.1286  
0.0354  
-0.0397  
0.0244  
0.1218  
-0.0931

Normalised Gain for this window is 0.014251

LPC coefficients for this window :- 81

1.0000  
-2.0184  
1.2844  
-0.3829  
0.3988  
-0.2146  
-0.1465  
-0.0019  
0.3759  
-0.2051  
-0.1370  
0.1695  
-0.1745  
0.1926  
-0.0879  
-0.0941  
0.1696  
-0.1183  
-0.1293  
0.3722  
-0.2145

Normalised Gain for this window is 0.016504

LPC coefficients for this window :- 82

1.0000  
-1.6771  
0.7542  
-0.1014  
0.2249  
-0.0545

-0.1244  
0.0202  
-0.0076  
0.1881  
-0.1811  
0.0005  
0.1152  
-0.1196  
0.0852  
-0.0763  
0.0047  
-0.0344  
-0.0649  
0.2490  
-0.1323

Normalised Gain for this window is 0.013408

LPC coefficients for this window :- 83

1.0000  
-1.7804  
0.8715  
-0.2785  
0.8062  
-0.8084  
0.5829  
-0.9109  
1.0203  
-0.4215  
-0.1521  
0.0975  
0.0696  
0.1379  
-0.2235  
0.0292  
-0.0101  
-0.0335  
-0.0925  
0.3288  
-0.1886

Normalised Gain for this window is 0.012158

LPC coefficients for this window :- 84

1.0000

-1.4624  
0.3967  
0.0798  
0.2451  
-0.1408  
0.1970  
-0.4010  
0.2716  
-0.0305  
-0.2160  
0.3109  
-0.1870  
0.1071  
-0.1177  
-0.0432  
0.2444  
-0.2623  
0.0020  
0.1731  
-0.0800

Normalised Gain for this window is 0.01263  
LPC coefficients for this window :- 85

1.0000  
-1.4242  
0.2946  
0.0725  
0.2816  
-0.1219  
0.2023  
-0.2924  
0.1285  
-0.0388  
-0.1544  
0.2509  
-0.1214  
0.0784  
-0.0453  
-0.1009  
0.1953  
-0.1591  
0.0044  
0.0246  
0.0415



Normalised Gain for this window is 0.015241  
LPC coefficients for this window :- 86

1.0000  
-1.5570  
0.5234  
0.0653  
0.1188  
-0.1284  
0.1739  
-0.2223  
0.2106  
-0.0788  
-0.1024  
0.1132  
-0.0566  
0.0252  
-0.0335  
0.0037  
0.0361  
0.0232  
-0.1251  
0.0086  
0.0962

Normalised Gain for this window is 0.015465  
LPC coefficients for this window :- 87

1.0000  
-1.4592  
0.4462  
0.1145  
0.0767  
-0.1172  
0.0878  
-0.0537  
0.0289  
-0.0077  
0.0061  
0.0517  
-0.0761  
-0.0455  
0.0338  
0.0393  
-0.0208

-0.0195  
-0.0346  
-0.0193  
0.0721

Normalised Gain for this window is 0.011854  
LPC coefficients for this window :- 88

1.0000  
-1.8331  
1.1089  
-0.1491  
0.1243  
-0.3223  
0.2098  
-0.1401  
0.2297  
-0.1319  
-0.0011  
0.1869  
-0.2575  
0.0846  
0.0852  
-0.0369  
-0.0162  
-0.0319  
0.1185  
-0.1970  
0.1566

Normalised Gain for this window is 0.012243  
LPC coefficients for this window :- 89

1.0000  
-2.2092  
2.0753  
-1.2498  
0.8913  
-0.9185  
0.7838  
-0.4580  
0.1948  
0.0184  
-0.1593  
0.3514  
-0.4321

0.3664  
-0.4146  
0.4430  
-0.1141  
-0.2032  
0.2923  
-0.2852  
0.1548

Normalised Gain for this window is 0.013993

LPC coefficients for this window :- 90

1.0000  
-1.7384  
1.0775  
-0.2553  
-0.0245  
-0.1808  
0.2786  
-0.0211  
-0.1482  
0.1554  
0.0357  
-0.0914  
0.0156  
0.0130  
-0.1837  
0.2178  
0.0913  
-0.1757  
0.1727  
-0.1544  
0.0367

Normalised Gain for this window is 0.011608

LPC coefficients for this window :- 91

1.0000  
-2.1229  
1.9501  
-1.2454  
0.9051  
-0.9930  
1.0799  
-0.8260  
0.3262

0.1277  
-0.2675  
0.1829  
-0.0900  
0.1935  
-0.5025  
0.5330  
-0.0738  
-0.1869  
0.2162  
-0.2721  
0.1380

Normalised Gain for this window is 0.0086821  
LPC coefficients for this window :- 92

1.0000  
-1.8453  
1.3051  
-0.5746  
0.4356  
-0.4951  
0.4791  
-0.4142  
0.0971  
0.2437  
-0.3035  
0.1549  
0.0539  
-0.0145  
-0.2214  
0.2790  
-0.0383  
-0.0278  
0.0364  
-0.2623  
0.1888

Normalised Gain for this window is 0.0081275  
LPC coefficients for this window :- 93

1.0000  
-2.0797  
1.7656  
-0.9809  
0.9118

-1.2155  
1.3534  
-1.2330  
0.6921  
-0.1755  
0.0757  
-0.1552  
0.1019  
0.2191  
-0.5202  
0.4881  
-0.1809  
0.0392  
-0.1126  
0.0327  
0.0228

Normalised Gain for this window is 0.0081299

LPC coefficients for this window :- 94

1.0000  
-1.5550  
0.5183  
0.1821  
0.0530  
-0.1481  
0.0149  
-0.0939  
0.0723  
0.0033  
-0.0656  
0.1239  
-0.0428  
0.0197  
-0.0668  
-0.0326  
0.1373  
-0.0791  
-0.0178  
-0.0876  
0.0833

Normalised Gain for this window is 0.013754

LPC coefficients for this window :- 95

1.0000

-1.5939  
0.5346  
0.1795  
-0.0086  
-0.0599  
-0.0494  
-0.0375  
0.1632  
-0.0579  
-0.0896  
0.0775  
-0.0077  
0.0005  
-0.0254  
-0.0527  
0.0602  
0.0584  
-0.1138  
-0.1260  
0.1590

Normalised Gain for this window is 0.021486

LPC coefficients for this window :- 96

1.0000  
-1.1619  
0.0875  
0.0737  
0.0463  
0.0112  
-0.0055  
-0.0141  
-0.0250  
-0.0052  
0.0097  
0.0104  
0.0101  
0.0174  
0.0157  
-0.0157  
-0.0342  
-0.0240  
-0.0313  
-0.0553  
0.1046

Normalised Gain for this window is 0.050863

LPC coefficients for this window :- 97

1.0000  
-1.1201  
0.0510  
0.0518  
0.0324  
0.0004  
-0.0112  
-0.0296  
-0.0315  
-0.0223  
-0.0085  
0.0242  
0.0340  
0.0192  
0.0176  
0.0164  
-0.0012  
-0.0114  
-0.0253  
-0.0292  
0.0558

Normalised Gain for this window is 0.17628

LPC coefficients for this window :- 98

1.0000  
-1.1339  
0.0691  
0.0400  
0.0168  
0.0057  
-0.0154  
-0.0442  
-0.0410  
-0.0215  
0.0057  
0.0286  
0.0393  
0.0528  
0.0396  
0.0015  
-0.0012

-0.0129  
-0.0431  
-0.0323  
0.0557

Normalised Gain for this window is 0.20661

LPC coefficients for this window :- 99

1.0000  
-1.0731  
0.0322  
0.0340  
0.0104  
-0.0034  
-0.0014  
-0.0181  
-0.0222  
-0.0128  
-0.0000  
0.0182  
0.0200  
0.0163  
0.0156  
0.0070  
-0.0077  
-0.0158  
-0.0176  
-0.0112  
0.0441

Normalised Gain for this window is 0.13441

LPC coefficients for this window :- 100

1.0000  
-1.1600  
0.0805  
0.0596  
0.0506  
0.0016  
-0.0099  
-0.0101  
-0.0461  
-0.0249  
0.0010  
0.0188  
0.0325



-0.0013  
-0.0001  
0.0276  
-0.0041  
-0.0179  
-0.0155  
-0.0208  
0.0477

Normalised Gain for this window is 0.10033

LPC coefficients for this window :- 101

1.0000  
-1.1991  
0.0988  
0.0679  
0.0305  
0.0091  
-0.0180  
-0.0185  
0.0159  
0.0006  
-0.0137  
0.0006  
0.0246  
0.0014  
-0.0091  
0.0321  
-0.0091  
-0.0120  
-0.0014  
-0.0313  
0.0372

Normalised Gain for this window is 0.083396

LPC coefficients for this window :- 102

1.0000  
-1.2073  
0.0763  
0.0674  
0.0514  
0.0230  
-0.0027  
0.0092  
-0.0179

-0.0249  
0.0152  
-0.0192  
-0.0055  
0.0167  
-0.0149  
0.0340  
0.0095  
-0.0382  
0.0157  
0.0068  
0.0129

Normalised Gain for this window is 0.083625  
LPC coefficients for this window :- 103

1.0000  
-1.1325  
0.0502  
0.0228  
0.0192  
0.0332  
0.0098  
-0.0136  
0.0135  
0.0066  
-0.0281  
-0.0280  
-0.0186  
0.0057  
0.0230  
0.0010  
0.0194  
0.0402  
-0.0025  
-0.0067  
-0.0068

Normalised Gain for this window is 0.10205  
LPC coefficients for this window :- 104

1.0000  
-1.1591  
0.0598  
0.0702  
0.0411

0.0022  
-0.0098  
-0.0362  
-0.0300  
0.0002  
0.0032  
-0.0001  
0.0183  
0.0360  
0.0227  
-0.0032  
-0.0197  
-0.0111  
-0.0043  
-0.0025  
0.0325

Normalised Gain for this window is 0.10457

LPC coefficients for this window :- 105

1.0000  
-1.3241  
0.2687  
0.1206  
-0.0245  
-0.0400  
0.0538  
0.0405  
-0.0537  
-0.0533  
-0.0303  
-0.0382  
0.0103  
0.0558  
0.0285  
-0.0401  
-0.0253  
0.0322  
0.0205  
-0.0200  
0.0338

Normalised Gain for this window is 0.093328

LPC coefficients for this window :- 106

1.0000

-1.0951  
0.0659  
0.0484  
0.0466  
0.0496  
0.0313  
0.0023  
-0.0229  
-0.0291  
-0.0140  
-0.0009  
-0.0001  
0.0025  
-0.0020  
-0.0156  
-0.0140  
0.0093  
0.0196  
-0.0052  
0.0009

Normalised Gain for this window is 0.21479  
LPC coefficients for this window :- 107

1.0000  
-1.9218  
1.0537  
0.1188  
-0.3516  
0.0594  
0.2319  
-0.1081  
-0.0926  
0.1556  
-0.0390  
-0.2756  
0.0709  
0.2942  
-0.0146  
-0.1838  
0.0206  
0.1182  
-0.0637  
-0.0325  
-0.0065

Normalised Gain for this window is 0.57196

LPC coefficients for this window :- 108

1.0000  
-1.5609  
0.6088  
0.0380  
-0.1043  
0.0927  
0.0832  
-0.0579  
0.0011  
0.0721  
-0.0513  
-0.1454  
-0.0352  
0.1382  
0.1227  
-0.0224  
-0.0470  
-0.0098  
-0.0156  
0.0258  
-0.0505

Normalised Gain for this window is 0.69139

LPC coefficients for this window :- 109

1.0000  
-1.4651  
0.4995  
0.0555  
-0.0596  
0.0666  
0.0318  
-0.0510  
0.0347  
0.1233  
-0.0570  
-0.2321  
-0.0403  
0.2247  
0.1403  
-0.1056  
-0.0795

0.0696  
0.0480  
-0.0208  
-0.0870

Normalised Gain for this window is 0.67677

LPC coefficients for this window :- 110

1.0000  
-2.0577  
1.5908  
-0.5572  
-0.1941  
0.3882  
0.0355  
-0.2048  
0.0590  
0.1594  
-0.1705  
-0.2228  
0.1381  
0.2220  
-0.0228  
-0.0934  
0.0248  
0.0316  
-0.1117  
0.1125  
-0.0661

Normalised Gain for this window is 0.71134

LPC coefficients for this window :- 111

1.0000  
-1.5175  
0.5934  
0.0033  
-0.0961  
0.1006  
0.0783  
-0.0431  
0.0234  
0.0832  
-0.0907  
-0.1988  
-0.0003

0.2010  
0.1162  
-0.0699  
-0.0640  
0.0241  
0.0164  
0.0340  
-0.0823

Normalised Gain for this window is 0.65881

LPC coefficients for this window :- 112

1.0000  
-2.0458  
1.5544  
-0.5932  
-0.1854  
0.4192  
0.0574  
-0.1615  
0.0592  
0.0696  
-0.1702  
-0.2192  
0.1056  
0.2825  
-0.0059  
-0.1158  
0.0726  
-0.0025  
-0.1428  
0.0513  
0.0101

Normalised Gain for this window is 0.62964

LPC coefficients for this window :- 113

1.0000  
-1.7944  
1.0324  
-0.2137  
-0.2033  
0.2773  
0.1275  
-0.1709  
-0.0125

0.1440  
-0.1158  
-0.2213  
0.0639  
0.2051  
0.0589  
-0.1120  
0.0058  
0.0794  
-0.0660  
-0.0370  
-0.0061

Normalised Gain for this window is 0.596  
LPC coefficients for this window :- 114

1.0000  
-1.5494  
0.5740  
0.0838  
-0.0811  
0.0570  
0.0683  
-0.0723  
-0.0180  
0.1389  
-0.0321  
-0.2344  
-0.0186  
0.2428  
0.0945  
-0.1661  
-0.0640  
0.1186  
0.0611  
-0.0205  
-0.1041

Normalised Gain for this window is 0.60101  
LPC coefficients for this window :- 115

1.0000  
-1.6305  
0.7216  
-0.0302  
-0.1129



0.1450  
0.1059  
-0.0684  
-0.0265  
0.0715  
-0.0802  
-0.1836  
0.0124  
0.2404  
0.1246  
-0.1268  
-0.1157  
0.0557  
0.0476  
0.0228  
-0.0741

Normalised Gain for this window is 0.62041

LPC coefficients for this window :- 116

1.0000  
-1.4616  
0.4936  
0.0535  
-0.0356  
0.0944  
0.0225  
-0.0796  
0.0349  
0.1337  
-0.0436  
-0.2216  
-0.0459  
0.2342  
0.1204  
-0.1066  
-0.0826  
0.0488  
0.0739  
0.0245  
-0.0964

Normalised Gain for this window is 0.57414

LPC coefficients for this window :- 117

1.0000

-1.7471  
0.9040  
-0.0973  
-0.2041  
0.2354  
0.1691  
-0.1526  
-0.0460  
0.1281  
-0.0955  
-0.2189  
0.0620  
0.2345  
0.0607  
-0.1047  
-0.0511  
0.0384  
-0.0173  
0.0199  
-0.0216

Normalised Gain for this window is 0.58339  
LPC coefficients for this window :- 118

1.0000  
-1.6456  
0.6733  
0.0189  
-0.0554  
0.1063  
0.0430  
-0.0486  
0.0406  
0.0928  
-0.1152  
-0.2357  
0.0170  
0.2628  
0.1270  
-0.1424  
-0.1281  
0.0671  
0.0765  
-0.0145  
-0.0537

Normalised Gain for this window is 0.55902

LPC coefficients for this window :- 119

1.0000  
-2.6551  
3.0374  
-2.0118  
0.5692  
0.3639  
-0.2090  
-0.2443  
0.3096  
0.0357  
-0.3103  
-0.0383  
0.2396  
0.0665  
-0.0847  
-0.0635  
0.0813  
-0.0839  
0.0274  
0.0473  
-0.0402

Normalised Gain for this window is 0.4688

LPC coefficients for this window :- 120

1.0000  
-1.9901  
1.3414  
-0.3462  
-0.1760  
0.2955  
0.0725  
-0.1638  
0.0318  
0.1428  
-0.1727  
-0.2184  
0.1086  
0.2178  
0.0609  
-0.1137  
-0.0533

0.0255  
-0.0264  
0.0312  
-0.0183

Normalised Gain for this window is 0.4662

LPC coefficients for this window :- 121

1.0000  
-2.1742  
1.7091  
-0.5325  
-0.2304  
0.3962  
-0.0127  
-0.1862  
0.0897  
0.1201  
-0.1554  
-0.2015  
0.1031  
0.2378  
0.0111  
-0.1680  
0.0200  
0.0628  
-0.0948  
0.0811  
-0.0466

Normalised Gain for this window is 0.46903

LPC coefficients for this window :- 122

1.0000  
-2.1033  
1.5304  
-0.4784  
-0.1884  
0.4376  
0.0149  
-0.2370  
0.1332  
0.0367  
-0.1892  
-0.1473  
0.0771

0.2706  
0.0693  
-0.1586  
-0.0546  
0.0287  
-0.0711  
0.0788  
-0.0212

Normalised Gain for this window is 0.4667

LPC coefficients for this window :- 123

1.0000  
-2.0114  
1.2535  
-0.1753  
-0.1788  
0.1911  
0.1150  
-0.1526  
-0.0023  
0.1339  
-0.1649  
-0.1922  
0.0880  
0.2463  
0.0884  
-0.1738  
-0.0878  
0.0406  
0.0311  
0.0049  
-0.0285

Normalised Gain for this window is 0.51302

LPC coefficients for this window :- 124

1.0000  
-2.4161  
2.1241  
-0.8013  
-0.0814  
0.3477  
0.0005  
-0.2226  
0.0722

0.0992  
-0.1453  
-0.1392  
0.0750  
0.2957  
0.0085  
-0.3268  
0.0932  
0.1235  
-0.1752  
0.1262  
-0.0464

Normalised Gain for this window is 0.48676  
LPC coefficients for this window :- 125

1.0000  
-1.9506  
1.1209  
-0.1330  
-0.1553  
0.2155  
0.0947  
-0.1433  
-0.0220  
0.0741  
-0.0933  
-0.1801  
0.0777  
0.2670  
0.0477  
-0.2198  
-0.0469  
0.1015  
-0.0258  
-0.0173  
0.0020

Normalised Gain for this window is 0.37663  
LPC coefficients for this window :- 126

1.0000  
-2.9307  
4.0598  
-4.1551  
3.5375

-2.3343  
1.4571  
-1.1400  
0.9594  
-0.6058  
0.1926  
-0.2272  
0.2577  
-0.0767  
0.3053  
-0.5149  
0.3406  
-0.2555  
0.2328  
-0.1084  
0.0116

Normalised Gain for this window is 0.29586

LPC coefficients for this window :- 127

1.0000  
-1.9480  
1.1398  
-0.2307  
-0.0047  
0.2210  
-0.0723  
-0.1899  
0.1108  
0.1577  
-0.1418  
-0.1844  
0.0355  
0.2182  
0.0926  
-0.1867  
-0.1278  
0.1051  
0.1185  
-0.1122  
0.0082

Normalised Gain for this window is 0.31735

LPC coefficients for this window :- 128

1.0000

-2.1961  
1.5524  
-0.3813  
0.1015  
0.0582  
-0.1400  
-0.0793  
0.1373  
0.0458  
-0.1207  
0.0266  
-0.0696  
0.1286  
0.0929  
-0.2068  
-0.0133  
0.0246  
0.2213  
-0.2264  
0.0508

Normalised Gain for this window is 0.26818  
LPC coefficients for this window :- 129

1.0000  
-1.9351  
1.0008  
0.0096  
0.0430  
-0.0392  
-0.0228  
-0.1037  
0.0874  
0.1195  
-0.1612  
-0.0501  
0.0231  
0.1183  
0.1003  
-0.1756  
-0.1445  
0.1178  
0.1497  
-0.0761  
-0.0518



Normalised Gain for this window is 0.18742

LPC coefficients for this window :- 130

1.0000  
-1.7651  
0.7685  
0.0003  
0.0251  
0.0155  
0.1069  
-0.0732  
-0.0767  
0.1618  
-0.0992  
-0.1973  
0.0604  
0.1562  
0.0721  
-0.0939  
-0.0905  
0.0390  
0.0346  
0.0084  
-0.0420

Normalised Gain for this window is 0.16747

LPC coefficients for this window :- 131

1.0000  
-1.5903  
0.5145  
0.0789  
-0.0058  
0.0583  
0.0401  
-0.0244  
0.0141  
0.0584  
-0.1071  
-0.1472  
0.0382  
0.0999  
0.0634  
-0.0074  
-0.0848

-0.0395  
0.0441  
0.0469  
-0.0390

Normalised Gain for this window is 0.14784  
LPC coefficients for this window :- 132

1.0000  
-1.6492  
0.5492  
0.1003  
0.0339  
0.0001  
0.0052  
-0.0085  
0.0222  
0.0872  
-0.1114  
-0.1887  
0.0339  
0.1733  
0.0565  
-0.0391  
-0.0794  
-0.0611  
0.0911  
0.0095  
-0.0157

Normalised Gain for this window is 0.16181  
LPC coefficients for this window :- 133

1.0000  
-1.4780  
0.2786  
0.1823  
0.1145  
-0.0322  
-0.0144  
-0.0250  
0.0169  
0.0075  
-0.0537  
-0.0126  
-0.0272

-0.0252  
0.0654  
0.0456  
-0.0128  
0.0000  
-0.0356  
-0.0469  
0.0656

Normalised Gain for this window is 0.15387

LPC coefficients for this window :- 134

1.0000  
-1.4830  
0.2854  
0.1094  
0.0699  
0.0929  
0.0262  
-0.0300  
-0.0266  
0.0074  
-0.0279  
-0.1071  
-0.0297  
0.0939  
0.0889  
0.0002  
-0.0268  
-0.0076  
-0.0235  
-0.0631  
0.0607

Normalised Gain for this window is 0.14067

LPC coefficients for this window :- 135

1.0000  
-1.3072  
0.1485  
0.0976  
0.0437  
0.0280  
0.0296  
0.0121  
-0.0122

-0.0110  
-0.0125  
-0.0214  
-0.0233  
0.0017  
0.0313  
0.0153  
0.0098  
0.0027  
-0.0117  
-0.0159  
0.0081

Normalised Gain for this window is 0.14685  
LPC coefficients for this window :- 136

1.0000  
-1.3768  
0.1783  
0.1155  
0.0691  
0.0570  
-0.0085  
-0.0138  
0.0045  
-0.0101  
0.0261  
-0.0374  
-0.0534  
0.0351  
0.0330  
0.0192  
0.0072  
-0.0217  
-0.0263  
-0.0673  
0.0826

Normalised Gain for this window is 0.14135  
LPC coefficients for this window :- 137

1.0000  
-1.1924  
0.0835  
0.0726  
0.0392

-0.0037  
0.0003  
-0.0030  
0.0189  
0.0102  
-0.0148  
0.0127  
0.0118  
-0.0045  
0.0140  
-0.0066  
-0.0219  
0.0032  
-0.0287  
-0.0120  
0.0417

Normalised Gain for this window is 0.10058

LPC coefficients for this window :- 138

1.0000  
-1.2262  
0.0997  
0.0605  
0.0354  
-0.0298  
0.0267  
0.0454  
0.0228  
0.0226  
-0.0213  
-0.0099  
0.0030  
0.0077  
0.0248  
-0.0068  
0.0173  
0.0152  
-0.0506  
-0.0371  
0.0250

Normalised Gain for this window is 0.055551

LPC coefficients for this window :- 139

1.0000

-1.6547  
0.4874  
0.1772  
-0.0179  
-0.0537  
0.1241  
0.0279  
-0.0176  
-0.0797  
-0.0377  
0.0867  
-0.0017  
-0.0073  
-0.0519  
0.0271  
0.0839  
-0.0746  
-0.0058  
0.0010  
-0.0006

Normalised Gain for this window is 0.044813  
LPC coefficients for this window :- 140

1.0000  
-1.2802  
0.0902  
0.0677  
0.0344  
0.0414  
0.0354  
0.0313  
0.0270  
0.0064  
0.0140  
-0.0023  
-0.0240  
-0.0242  
-0.0165  
0.0048  
0.0023  
0.0019  
0.0139  
-0.0061  
-0.0058

Normalised Gain for this window is 0.064492

LPC coefficients for this window :- 141

1.0000  
-1.3895  
0.1622  
0.0902  
0.0404  
0.0347  
0.0418  
0.0299  
0.0279  
0.0215  
0.0026  
-0.0171  
-0.0096  
-0.0125  
-0.0252  
0.0117  
0.0110  
-0.0212  
-0.0216  
-0.0240  
0.0537

Normalised Gain for this window is 0.077109

LPC coefficients for this window :- 142

1.0000  
-1.2248  
0.0673  
0.0637  
0.0226  
0.0100  
0.0229  
0.0135  
0.0286  
0.0278  
0.0177  
0.0219  
-0.0131  
-0.0231  
-0.0072  
-0.0047  
-0.0054

-0.0137  
0.0004  
-0.0113  
0.0179

Normalised Gain for this window is 0.058313

LPC coefficients for this window :- 143

1.0000  
-1.3768  
0.1951  
0.1208  
0.0665  
-0.0101  
-0.0053  
0.0384  
0.0313  
0.0084  
0.0107  
-0.0196  
-0.0268  
-0.0054  
-0.0052  
0.0217  
-0.0158  
-0.0123  
0.0269  
-0.0263  
0.0019

Normalised Gain for this window is 0.02612

LPC coefficients for this window :- 144

1.0000  
-1.3965  
0.2115  
0.1127  
0.1025  
0.0412  
0.0070  
0.0039  
-0.0324  
0.0402  
-0.0228  
-0.0219  
0.0188



-0.0281  
0.0212  
0.0281  
-0.0161  
-0.0124  
0.0013  
-0.0035  
-0.0021

Normalised Gain for this window is 0.014673

LPC coefficients for this window :- 145

1.0000  
-1.3582  
0.1910  
0.0923  
0.0614  
0.0353  
0.0026  
0.0076  
-0.0216  
0.0002  
0.0265  
-0.0092  
0.0092  
0.0284  
-0.0193  
-0.0116  
0.0196  
0.0002  
-0.0164  
-0.0336  
0.0129

Normalised Gain for this window is 0.021012

LPC coefficients for this window :- 146

1.0000  
-1.1475  
0.0426  
0.0083  
0.0154  
0.0439  
0.0228  
0.0126  
0.0163

0.0085  
0.0011  
-0.0090  
0.0019  
0.0107  
-0.0068  
-0.0046  
0.0066  
-0.0032  
-0.0041  
-0.0194  
0.0199

Normalised Gain for this window is 0.038426  
LPC coefficients for this window :- 147

1.0000  
-1.0756  
0.0149  
0.0146  
0.0126  
0.0051  
-0.0001  
0.0106  
0.0164  
0.0010  
0.0066  
0.0052  
-0.0063  
0.0035  
0.0065  
0.0046  
-0.0019  
-0.0070  
-0.0086  
-0.0104  
0.0269

Normalised Gain for this window is 0.074705  
LPC coefficients for this window :- 148

1.0000  
-1.1968  
0.0619  
0.0364  
0.0249

0.0276  
0.0148  
0.0049  
0.0187  
0.0115  
-0.0131  
-0.0189  
0.0026  
0.0167  
-0.0050  
0.0048  
0.0139  
-0.0107  
-0.0042  
-0.0037  
0.0215

Normalised Gain for this window is 0.10929

LPC coefficients for this window :- 149

1.0000  
-1.0706  
0.0150  
0.0108  
0.0132  
0.0046  
-0.0065  
0.0016  
0.0070  
0.0007  
0.0002  
0.0018  
0.0084  
0.0057  
-0.0010  
-0.0003  
-0.0035  
-0.0056  
0.0066  
0.0100  
0.0162

Normalised Gain for this window is 0.1045

LPC coefficients for this window :- 150

1.0000

-1.2589  
0.0981  
0.1131  
0.0424  
-0.0295  
-0.0119  
0.0325  
0.0331  
0.0079  
-0.0043  
-0.0242  
-0.0088  
-0.0019  
-0.0029  
0.0061  
-0.0221  
-0.0227  
0.0049  
0.0522  
0.0086

Normalised Gain for this window is 0.072032

LPC coefficients for this window :- 151

1.0000  
-1.3021  
0.1640  
0.0804  
0.0228  
0.0101  
0.0294  
0.0332  
0.0144  
0.0002  
-0.0718  
-0.0599  
0.0369  
0.0647  
0.0243  
-0.0416  
-0.0504  
-0.0241  
0.0040  
0.0356  
0.0434

Normalised Gain for this window is 0.056445

LPC coefficients for this window :- 152

1.0000  
-1.2954  
0.1567  
0.0905  
0.0477  
0.0124  
-0.0041  
0.0092  
0.0234  
0.0202  
-0.0184  
-0.0218  
-0.0344  
-0.0202  
0.0127  
0.0050  
-0.0326  
-0.0280  
0.0202  
0.0124  
0.0589

Normalised Gain for this window is 0.046575

LPC coefficients for this window :- 153

1.0000  
-1.3478  
0.2179  
0.0891  
0.0541  
0.0350  
0.0361  
0.0207  
0.0024  
-0.0306  
-0.0485  
-0.0495  
0.0058  
0.0339  
-0.0041  
-0.0114  
-0.0313

-0.0186  
0.0450  
0.0036  
0.0139

Normalised Gain for this window is 0.028634

LPC coefficients for this window :- 154

1.0000  
-1.6928  
0.6238  
0.1865  
-0.0043  
-0.0654  
0.0684  
0.0959  
-0.0862  
-0.0979  
-0.0398  
0.0069  
0.0015  
0.0547  
0.1174  
-0.0713  
-0.1266  
0.0131  
0.0581  
-0.0359  
0.0072

Normalised Gain for this window is 0.017167

LPC coefficients for this window :- 155

1.0000  
-1.7733  
0.7405  
0.1637  
-0.0306  
-0.0451  
0.0823  
0.0245  
-0.0811  
-0.0313  
-0.0941  
-0.0078  
0.0960

0.0302  
0.0398  
-0.0780  
-0.0689  
0.0814  
0.0242  
-0.1366  
0.0764

Normalised Gain for this window is 0.0167

LPC coefficients for this window :- 156

1.0000  
-1.7081  
0.6760  
0.1467  
0.0277  
-0.0510  
0.0416  
0.0248  
-0.0134  
-0.1186  
-0.0571  
0.0877  
0.0054  
-0.0125  
0.0577  
-0.0306  
-0.0595  
0.0232  
0.0288  
-0.0869  
0.0382

Normalised Gain for this window is 0.013515

LPC coefficients for this window :- 157

1.0000  
-1.8102  
0.8083  
0.0823  
0.0811  
-0.0710  
-0.0019  
0.0387  
-0.0294

-0.1063  
0.0107  
-0.0074  
0.0505  
0.0978  
-0.0992  
-0.0607  
0.0591  
0.0500  
-0.0605  
-0.0891  
0.0895

Normalised Gain for this window is 0.011626  
LPC coefficients for this window :- 158

1.0000  
-1.3275  
0.1226  
0.0947  
0.0820  
0.0712  
0.0542  
-0.0007  
-0.0356  
-0.0617  
-0.0443  
-0.0122  
-0.0065  
0.0340  
0.0271  
-0.0106  
0.0222  
-0.0049  
-0.0293  
-0.0347  
0.0692

Normalised Gain for this window is 0.056759  
LPC coefficients for this window :- 159

1.0000  
-1.1652  
0.0560  
0.0557  
0.0301



0.0242  
0.0178  
-0.0084  
-0.0194  
-0.0222  
-0.0119  
0.0001  
0.0110  
0.0148  
-0.0031  
-0.0145  
-0.0103  
0.0066  
0.0139  
-0.0010  
0.0381

Normalised Gain for this window is 0.099132

LPC coefficients for this window :- 160

1.0000  
-1.0969  
0.0328  
0.0296  
0.0149  
0.0133  
-0.0023  
-0.0067  
0.0036  
-0.0008  
0.0007  
-0.0205  
-0.0012  
0.0142  
-0.0141  
-0.0092  
-0.0072  
0.0042  
0.0188  
0.0153  
0.0249

Normalised Gain for this window is 0.086515

LPC coefficients for this window :- 161

1.0000

-1.1409  
0.0425  
0.0368  
0.0272  
0.0296  
0.0164  
-0.0090  
-0.0015  
0.0009  
0.0072  
0.0090  
-0.0160  
-0.0132  
-0.0026  
-0.0096  
-0.0120  
-0.0053  
0.0007  
-0.0110  
0.0634

Normalised Gain for this window is 0.067823

LPC coefficients for this window :- 162

1.0000  
-1.1185  
0.0327  
0.0377  
0.0305  
0.0215  
0.0168  
-0.0145  
-0.0027  
0.0046  
-0.0082  
-0.0014  
-0.0098  
-0.0065  
0.0029  
-0.0079  
-0.0091  
-0.0212  
-0.0121  
-0.0003  
0.0805

Normalised Gain for this window is 0.075353

LPC coefficients for this window :- 163

1.0000  
-1.2810  
0.1489  
0.0707  
0.0473  
0.0228  
0.0061  
-0.0017  
0.0172  
-0.0155  
-0.0268  
0.0167  
0.0084  
-0.0280  
-0.0301  
0.0018  
-0.0063  
0.0200  
0.0023  
-0.0236  
0.0622

Normalised Gain for this window is 0.050266

LPC coefficients for this window :- 164

1.0000  
-1.2234  
0.0718  
0.0623  
0.0446  
0.0204  
0.0129  
0.0014  
-0.0096  
0.0070  
0.0009  
-0.0040  
0.0089  
0.0176  
0.0088  
-0.0314  
-0.0316

0.0002  
0.0224  
0.0320  
-0.0007

Normalised Gain for this window is 0.080671

LPC coefficients for this window :- 165

1.0000  
-1.3604  
0.1843  
0.1054  
0.0503  
0.0544  
-0.0108  
-0.0607  
-0.0326  
-0.0066  
0.0272  
0.0395  
0.0247  
-0.0012  
0.0003  
-0.0066  
-0.0212  
-0.0151  
-0.0028  
0.0624  
-0.0221

Normalised Gain for this window is 0.10454

LPC coefficients for this window :- 166

1.0000  
-1.1371  
0.0580  
0.0537  
0.0366  
-0.0078  
-0.0165  
-0.0156  
-0.0135  
0.0041  
0.0024  
0.0086  
0.0119

0.0019  
-0.0083  
-0.0089  
0.0017  
0.0128  
0.0161  
0.0276  
-0.0091

Normalised Gain for this window is 0.083562  
LPC coefficients for this window :- 167

1.0000  
-1.0688  
0.0251  
0.0261  
0.0207  
0.0092  
-0.0041  
-0.0062  
-0.0081  
-0.0120  
-0.0038  
-0.0023  
0.0012  
0.0011  
-0.0072  
-0.0037  
-0.0047  
0.0015  
0.0148  
0.0209  
0.0283

Normalised Gain for this window is 0.12534  
LPC coefficients for this window :- 168

1.0000  
-1.0959  
0.0288  
0.0279  
0.0140  
0.0131  
0.0055  
-0.0045  
-0.0040

-0.0090  
-0.0071  
-0.0013  
-0.0026  
0.0028  
0.0004  
-0.0107  
0.0026  
0.0090  
0.0107  
0.0191  
0.0223

Normalised Gain for this window is 0.17079  
LPC coefficients for this window :- 169

1.0000  
-1.0504  
0.0082  
0.0113  
0.0039  
0.0077  
0.0112  
-0.0021  
-0.0041  
-0.0089  
-0.0116  
-0.0046  
-0.0060  
0.0003  
0.0091  
0.0073  
0.0049  
0.0046  
0.0088  
-0.0003  
0.0333

Normalised Gain for this window is 0.16474  
LPC coefficients for this window :- 170

1.0000  
-1.0735  
0.0209  
0.0082  
0.0061

0.0095  
0.0131  
0.0025  
0.0014  
0.0045  
-0.0119  
-0.0047  
-0.0070  
-0.0015  
0.0119  
-0.0042  
-0.0011  
0.0013  
-0.0005  
-0.0051  
0.0528

Normalised Gain for this window is 0.12787

LPC coefficients for this window :- 171

1.0000  
-1.4452  
0.2824  
0.1759  
0.0108  
-0.0452  
0.0515  
-0.0332  
-0.0260  
0.0274  
-0.0290  
0.0035  
-0.0160  
0.0257  
0.0282  
-0.0174  
0.0125  
-0.0050  
-0.0120  
-0.0279  
0.0509

Normalised Gain for this window is 0.070318

LPC coefficients for this window :- 172

1.0000

-1.2878  
0.1626  
0.1038  
0.0710  
-0.0124  
0.0108  
0.0201  
-0.0295  
0.0073  
-0.0485  
-0.0245  
0.0383  
0.0065  
0.0080  
0.0037  
-0.0330  
0.0192  
0.0075  
-0.0838  
0.0885

Normalised Gain for this window is 0.021375

LPC coefficients for this window :- 173

1.0000  
-2.1035  
1.5370  
-0.5607  
0.4757  
-0.6419  
0.5226  
-0.2684  
0.0409  
0.1454  
-0.2819  
0.2115  
-0.0468  
-0.0894  
0.2630  
-0.3363  
0.1082  
0.0589  
-0.1029  
0.0772  
0.0062



Normalised Gain for this window is 0.01156

LPC coefficients for this window :- 174

1.0000  
-1.7352  
0.8107  
-0.0039  
0.0421  
-0.1173  
0.0832  
-0.0671  
-0.0394  
0.1060  
-0.0790  
0.1535  
-0.1078  
-0.0694  
0.1249  
-0.1117  
0.0132  
-0.0513  
-0.0427  
0.2063  
-0.0855

Normalised Gain for this window is 0.0096725

LPC coefficients for this window :- 175

1.0000  
-1.5548  
0.5396  
0.1034  
0.0197  
-0.0721  
-0.0087  
-0.0131  
-0.0147  
0.0091  
0.0311  
0.0508  
-0.0534  
0.0041  
-0.0303  
-0.0359  
-0.0061

-0.0169  
0.0492  
-0.0086  
0.0287

Normalised Gain for this window is 0.010746

LPC coefficients for this window :- 176

1.0000  
-1.5510  
0.4768  
0.0859  
0.1094  
-0.0992  
-0.0671  
0.0345  
0.0025  
0.0087  
-0.0190  
-0.0064  
0.0565  
-0.0351  
-0.0362  
0.0148  
-0.0080  
-0.0016  
-0.0187  
0.0314  
0.0314

Normalised Gain for this window is 0.031016

LPC coefficients for this window :- 177

1.0000  
-1.2248  
0.1315  
0.0719  
0.0176  
-0.0107  
0.0063  
-0.0010  
-0.0272  
0.0069  
0.0176  
-0.0171  
0.0439

0.0017  
-0.0413  
-0.0055  
-0.0319  
0.0246  
-0.0089  
-0.0188  
0.0784

Normalised Gain for this window is 0.044693

LPC coefficients for this window :- 178

1.0000  
-1.2960  
0.1769  
0.0819  
0.1039  
-0.0018  
-0.0360  
-0.0025  
0.0049  
-0.0126  
-0.0477  
0.0196  
-0.0326  
-0.0262  
0.0191  
-0.0129  
0.0088  
-0.0084  
0.0129  
0.0008  
0.0635

Normalised Gain for this window is 0.043929

LPC coefficients for this window :- 179

1.0000  
-1.2756  
0.1976  
0.0592  
0.0697  
0.0040  
-0.0286  
-0.0238  
0.0147

0.0332  
-0.0300  
-0.0260  
-0.0532  
-0.0290  
0.0259  
0.0101  
-0.0171  
-0.0144  
0.0259  
0.0274  
0.0476

Normalised Gain for this window is 0.041425  
LPC coefficients for this window :- 180

1.0000  
-1.2027  
0.1192  
0.0752  
0.0242  
-0.0252  
-0.0137  
0.0288  
0.0089  
-0.0208  
-0.0357  
-0.0017  
0.0175  
-0.0059  
0.0163  
0.0149  
-0.0229  
-0.0177  
0.0084  
-0.0116  
0.0601

Normalised Gain for this window is 0.039745  
LPC coefficients for this window :- 181

1.0000  
-1.2902  
0.2056  
0.0808  
0.0063

-0.0211  
-0.0158  
0.0225  
0.0418  
0.0066  
-0.0367  
-0.0691  
0.0562  
0.0427  
-0.0495  
-0.0108  
-0.0151  
0.0081  
0.0021  
-0.0363  
0.0856

Normalised Gain for this window is 0.028773

LPC coefficients for this window :- 182

1.0000  
-1.1231  
0.1102  
0.0047  
0.0073  
0.0097  
-0.0006  
0.0399  
0.0102  
-0.0078  
-0.0305  
-0.0824  
0.0054  
0.0373  
0.0237  
-0.0049  
-0.0447  
0.0290  
0.0128  
-0.0076  
0.0351

Normalised Gain for this window is 0.017858

LPC coefficients for this window :- 183

1.0000

-1.2617  
0.2147  
0.0246  
0.0614  
-0.0082  
-0.0150  
-0.0150  
-0.0042  
0.0218  
-0.0620  
-0.0297  
0.0685  
0.0179  
-0.0231  
0.0118  
0.0020  
0.0028  
0.0525  
-0.0254  
-0.0175

Normalised Gain for this window is 0.018409  
LPC coefficients for this window :- 184

1.0000  
-1.3476  
0.2666  
0.0346  
0.0244  
0.0477  
0.0248  
-0.0293  
0.0360  
0.0180  
-0.0931  
-0.0209  
0.0611  
-0.0054  
-0.0056  
0.0045  
0.0320  
-0.0321  
-0.0637  
0.0224  
0.0443

Normalised Gain for this window is 0.018367

LPC coefficients for this window :- 185

1.0000  
-1.4379  
0.3399  
0.0225  
0.0845  
0.0922  
-0.0528  
-0.0223  
0.1097  
-0.0056  
-0.2114  
-0.0362  
0.1736  
0.0240  
-0.0726  
-0.0103  
0.0510  
-0.0350  
-0.0768  
0.0953  
-0.0129

Normalised Gain for this window is 0.017632

LPC coefficients for this window :- 186

1.0000  
-1.5521  
0.5017  
0.0224  
0.1041  
0.0528  
-0.0440  
-0.0739  
0.1459  
-0.0231  
-0.2205  
-0.0256  
0.0770  
0.1247  
-0.0220  
-0.0272  
0.0292

-0.1259  
-0.0146  
0.1641  
-0.0704

Normalised Gain for this window is 0.014033

LPC coefficients for this window :- 187

1.0000  
-1.8336  
1.1379  
-0.4211  
0.2609  
-0.0329  
-0.0947  
0.0445  
0.0813  
-0.0597  
-0.0788  
-0.0647  
0.0335  
0.1287  
-0.0214  
-0.0973  
0.0904  
-0.1153  
-0.0184  
0.2555  
-0.1756

Normalised Gain for this window is 0.0089377

LPC coefficients for this window :- 188

1.0000  
-1.3701  
0.3556  
0.0032  
0.0748  
0.0925  
-0.0547  
-0.0900  
0.0702  
0.0293  
-0.0389  
-0.0330  
-0.0604



0.0170  
0.0175  
0.0077  
0.0647  
-0.0773  
-0.0341  
0.1506  
-0.0851

Normalised Gain for this window is 0.0072841

LPC coefficients for this window :- 189

1.0000  
-2.2374  
2.0844  
-1.4090  
1.1426  
-0.9979  
0.8980  
-1.0334  
1.1663  
-0.9322  
0.4696  
-0.2877  
0.2472  
-0.0305  
-0.3018  
0.4759  
-0.3151  
0.1568  
-0.2557  
0.2711  
-0.0907

Normalised Gain for this window is 0.0070977

LPC coefficients for this window :- 190

1.0000  
-1.9564  
1.2955  
-0.3973  
0.3044  
-0.4280  
0.4403  
-0.4141  
0.4773

-0.4111  
0.0912  
0.0529  
0.0084  
0.0944  
-0.4434  
0.5173  
-0.1940  
0.0133  
-0.1182  
0.0786  
0.0347

Normalised Gain for this window is 0.0071378  
LPC coefficients for this window :- 191

1.0000  
-1.9138  
1.2739  
-0.4521  
0.2587  
-0.3939  
0.6789  
-0.6298  
0.3969  
-0.3183  
0.2604  
-0.1342  
-0.0530  
0.2429  
-0.4301  
0.3587  
-0.1612  
0.0813  
-0.0649  
-0.0353  
0.0818

Normalised Gain for this window is 0.008802  
LPC coefficients for this window :- 192

1.0000  
-1.7872  
0.9486  
-0.0533  
-0.0012

-0.2056  
0.3058  
-0.1923  
0.0278  
-0.0743  
0.1763  
-0.0612  
-0.1292  
0.1588  
-0.1250  
0.0205  
-0.0781  
0.1445  
-0.1283  
0.0301  
0.0608

Normalised Gain for this window is 0.0086447

LPC coefficients for this window :- 193

1.0000  
-1.8916  
1.0825  
-0.0855  
0.1947  
-0.5757  
0.3811  
0.0932  
-0.1968  
-0.0139  
0.0834  
0.0304  
-0.1149  
0.0256  
0.0889  
-0.0574  
-0.1438  
0.1290  
-0.0271  
0.0262  
-0.0072

Normalised Gain for this window is 0.006943

LPC coefficients for this window :- 194

1.0000

-1.8942  
1.0372  
-0.1015  
0.2225  
-0.4234  
0.2880  
-0.0911  
-0.0795  
0.1939  
-0.1307  
0.0139  
-0.1345  
0.1733  
0.1143  
-0.2233  
-0.0210  
0.0938  
-0.0541  
0.0027  
0.0363

Normalised Gain for this window is 0.00763  
LPC coefficients for this window :- 195

1.0000  
-1.8369  
0.9556  
-0.1450  
0.2581  
-0.3159  
0.2854  
-0.2038  
-0.1082  
0.2928  
-0.1627  
-0.0398  
0.0725  
-0.0588  
0.0885  
-0.0218  
-0.0199  
-0.0339  
-0.0899  
0.0951  
0.0196

Normalised Gain for this window is 0.0070279

LPC coefficients for this window :- 196

1.0000  
-1.5690  
0.5712  
-0.0267  
0.1697  
-0.0289  
-0.0181  
-0.0730  
-0.0292  
0.0661  
-0.0092  
-0.0058  
-0.0184  
0.0220  
-0.0044  
-0.0386  
0.0821  
-0.0252  
-0.1077  
-0.0292  
0.1114

Normalised Gain for this window is 0.0067048

LPC coefficients for this window :- 197

1.0000  
-1.7980  
1.0591  
-0.3810  
0.2945  
-0.0497  
-0.1186  
-0.0142  
-0.0190  
0.1559  
-0.0206  
-0.1509  
0.0295  
0.0906  
-0.0555  
-0.0398  
0.1042

-0.0547  
-0.0325  
-0.0747  
0.1078

Normalised Gain for this window is 0.0067766

LPC coefficients for this window :- 198

1.0000  
-1.4837  
0.4769  
0.0351  
0.1077  
-0.0592  
-0.0351  
-0.0541  
0.0090  
0.1204  
-0.0212  
-0.0963  
0.0048  
0.0651  
-0.0972  
0.0298  
0.0866  
-0.0417  
0.0103  
-0.1090  
0.0918

Normalised Gain for this window is 0.0084833

LPC coefficients for this window :- 199

1.0000  
-1.6675  
0.6706  
0.0968  
0.0076  
-0.0610  
-0.0468  
-0.1132  
0.1506  
0.1083  
-0.1024  
-0.0634  
-0.0137

0.0344  
0.0202  
-0.0030  
0.0039  
-0.0222  
0.0756  
-0.0622  
0.0195

Normalised Gain for this window is 0.012717

0.9950  
-1.6219  
0.7478  
-0.1667  
0.1836  
-0.1578  
0.1318  
-0.1102  
0.0671  
-0.0113  
-0.0212  
-0.0345  
0.0149  
0.0241  
0.0122  
-0.0122  
-0.0096  
-0.0114  
0.0081  
-0.0045  
0.0168

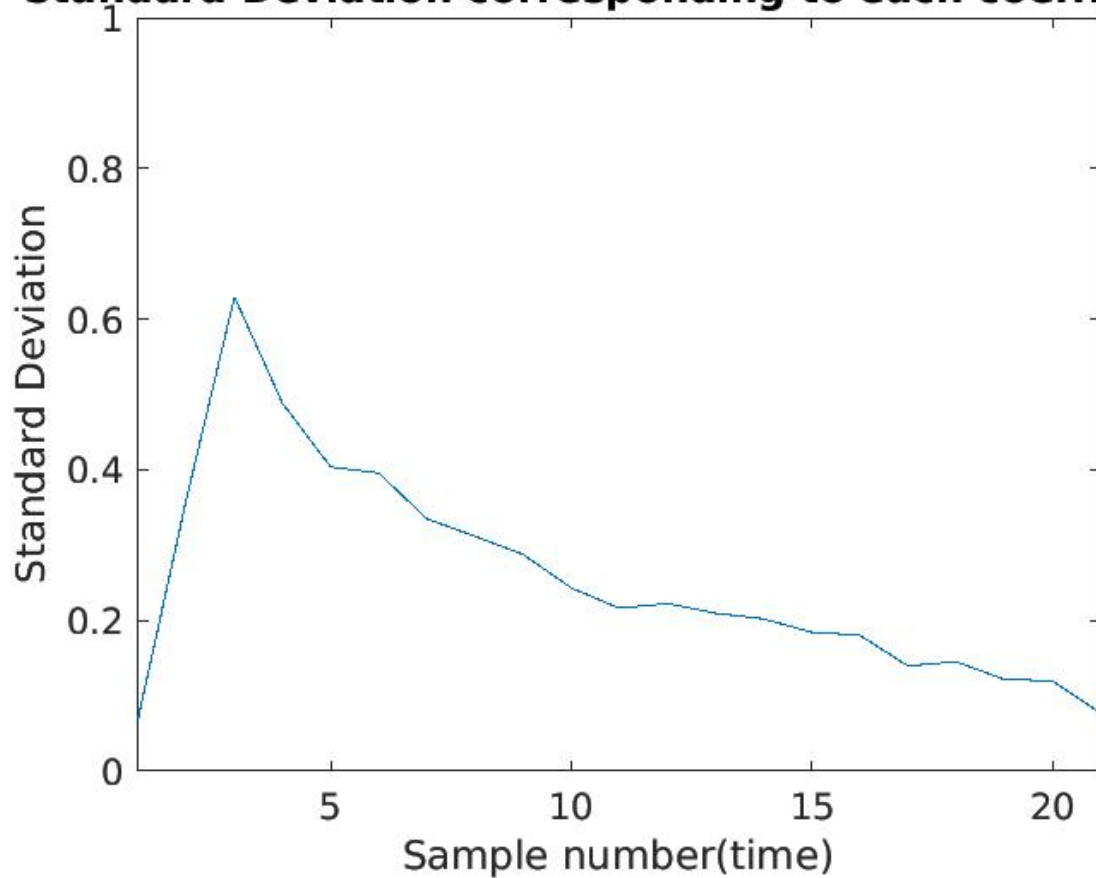
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0.3118  
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0.2434  
0.2165  
0.2225

0.2097  
0.2022  
0.1845  
0.1805  
0.1397  
0.1454  
0.1220  
0.1198  
0.0772

**OUTPUT MEAN AND STANDARD DEVIATION CURVES :**



**Standard Deviation corresponding to each coefficient**



**Mean corresponding to each coefficient**

