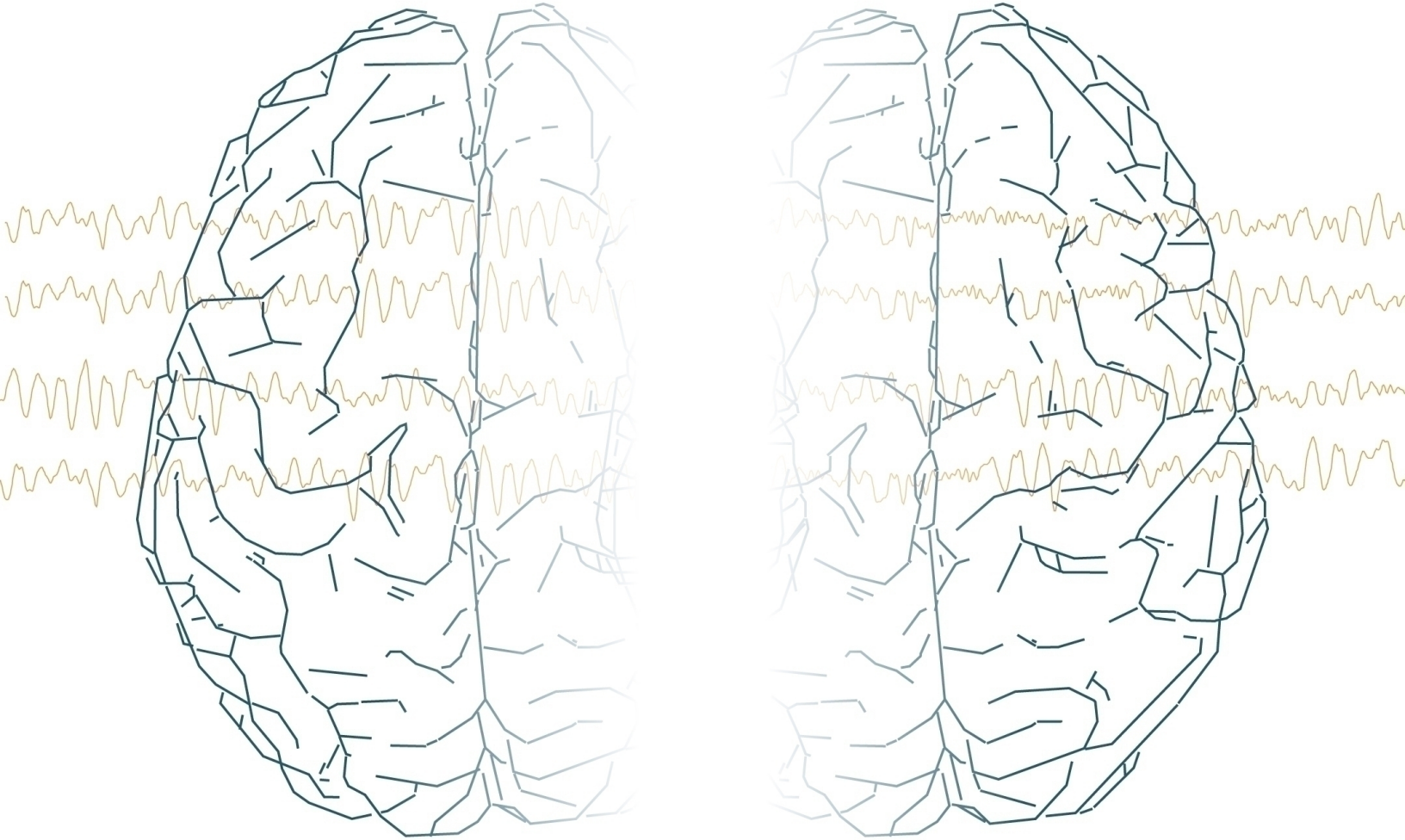


# QEEG COMPARISON REPORT



Name:	
Date of Analysis:	2022-8-22
Gender:	female
Handedness:	right



# INTRODUCTION

The 'qEEG Comparison Report' includes comparative analyses of qEEG results based on two or more different qEEG datasets. The comparative analyses shows the difference between these datasets for z-scored surface amplitudes, z-scored surface coherence, z-scored source amplitudes and z-scored source coherence, based on the sLORETA source reconstruction technique.

In order to get a comprehensive understanding of the changes of the qEEG results across time, this report depicts graphs which show the percentage of deviant z-scores for across time.

Using easy-to-understand color coding, a distinction is made between the percentage of z-scores that lie outside the +2 standard deviations range,

indicating rather extreme deviations from normal, and the percentage of z-scores that lie outside the +1 standard deviations range, indicating moderate deviations from normal.

Changes of qEEG results across time can be the result of an intervention (treatment). However, there are a number of other factors that may determine a difference, such as differences in the day and time of the EEG recording, substance use, sleep quality of the night(s) before the recording, but also differences in the number and severity of artifacts in the EEG recording.

## GENERAL INFORMATION

### FIRST EEG RECORDING

Input EEG: XXXXXX

EEG recorded on: 04-Aug-2020

Montage: Linked Ears

#### SUBJECT INFORMATION:

EEG ID: XXXXXX

Age: 15

Gender: female

Handedness: right

Condition: Eyes Closed

#### ARTIFACT REJECTION/CORRECTION RESULTS:

Noisy channels:

High frequency artifacts will be ignored in these channels.

Percentage rejected data: 12 %

(High percentages indicate bad data quality)

Record length: 7:30

Edit length: 6:36

### LAST EEG RECORDING

Input EEG: XXXXXX

EEG recorded on: 11-Jul-2022

Montage: Linked Ears

#### SUBJECT INFORMATION:

EEG ID: XXXXXX

Age: 16

Gender: female

Handedness: right

Condition: Eyes Closed

#### ARTIFACT REJECTION/CORRECTION RESULTS:

Noisy channels:

High frequency artifacts will be ignored in these channels.

Percentage rejected data: 10%

(High percentages indicate bad data quality)

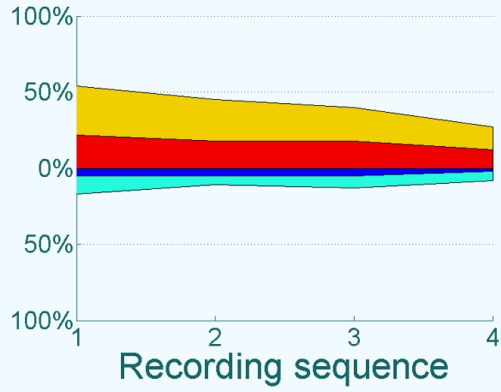
Record length: 8:20

Edit length: 7:30

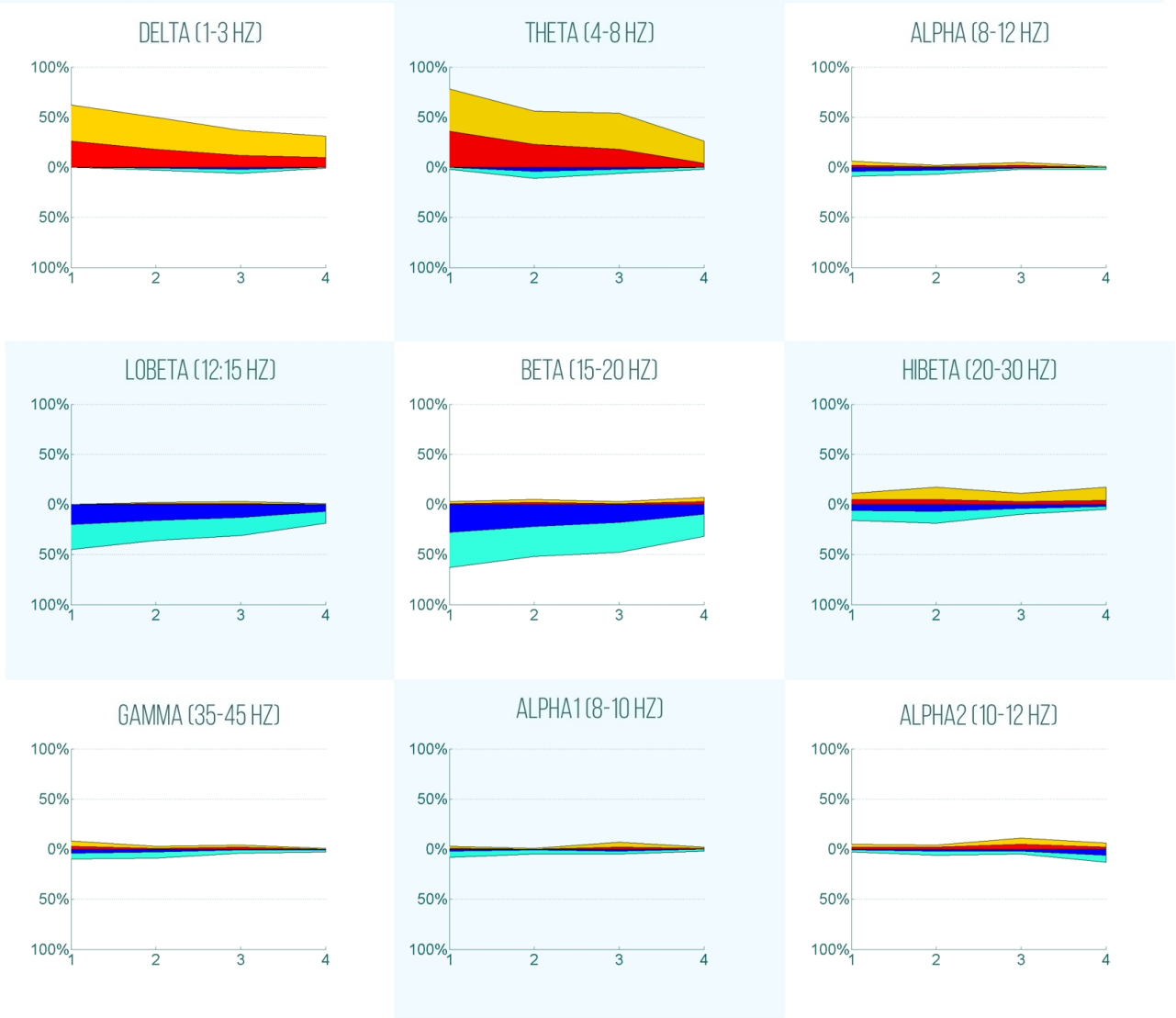
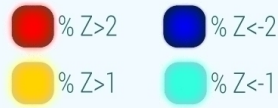
# QEEG COMPARISON REPORT

## SURFACE AMPLITUDE

### % DEVIANCE: AMPLITUDE



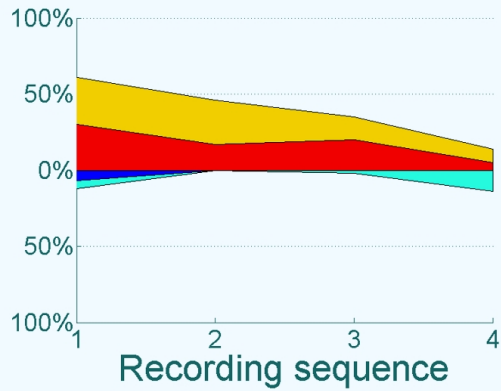
The '% Deviance: Amplitude' chart compares the percentage z-scores that are considered deviant between the first EEG recording (T=1) and the following EEG recording(s) (T>1). The percentages are calculated based on the z-scored amplitudes of all the available electrode sites (19) and across all the 1 Hz frequency bins (45). The charts below show the change in deviant z-scores for different frequency bands.



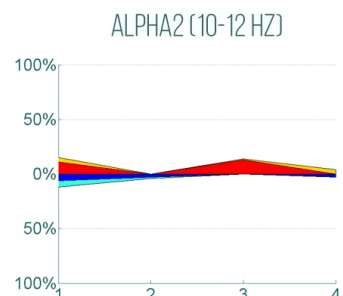
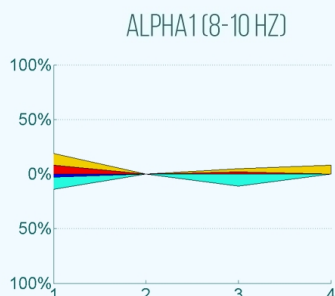
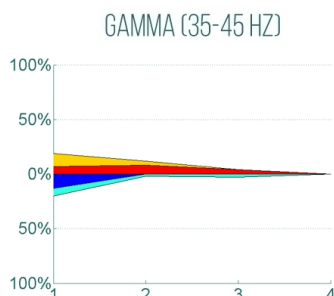
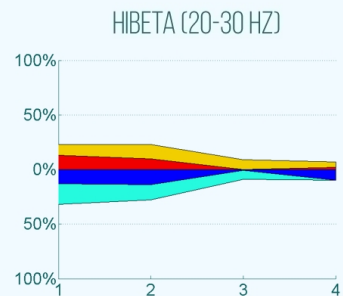
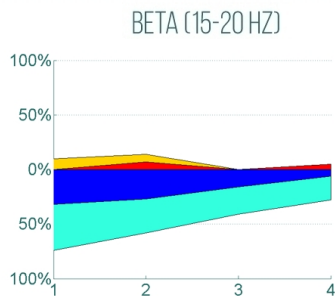
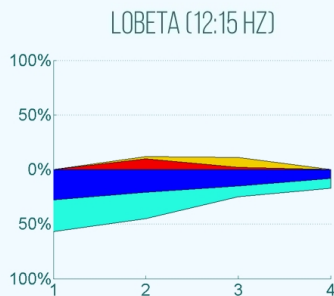
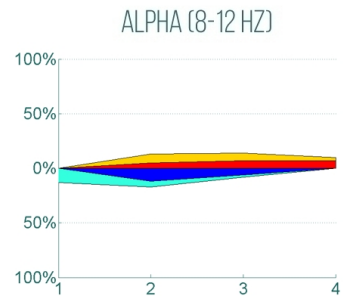
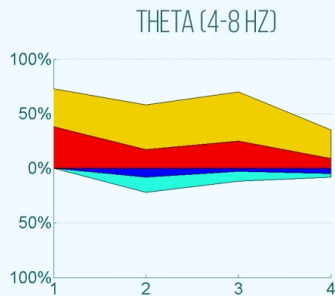
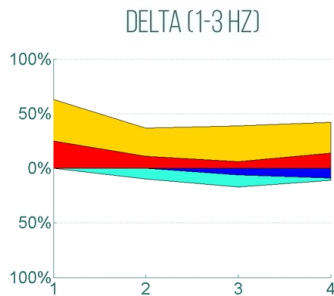
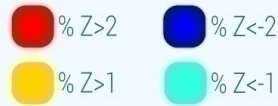
# QEEG COMPARISON REPORT

## SURFACE COHERENCE

### % DEVIANCE: COHERENCE



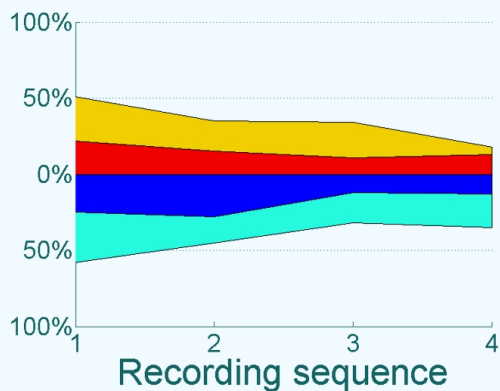
The '% Deviance: Coherence' chart compares the percentage z-scores that are considered deviant between the first EEG recording (T=1) and the following EEG recording(s) (T>1). The percentages are calculated based on the z-scored coherence between all the available electrode sites (19) and across all the 1 Hz frequency bins (45). The charts below show the change in deviant z-scores for different frequency bands.



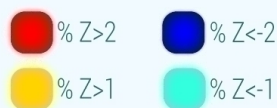
# QEEG COMPARISON REPORT

## SOURCE AMPLITUDE

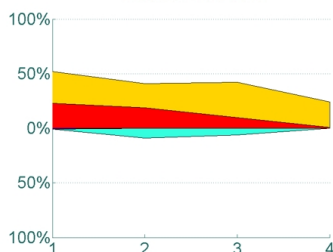
### % DEVIANCE: SOURCE AMPLITUDE



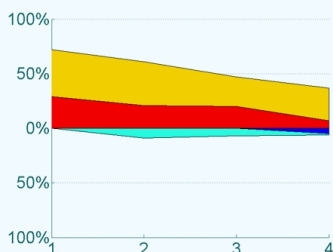
The '% Deviance: Source Amplitude' chart compares the percentage z-scores that are considered deviant between the first EEG recording (T=1) and the following EEG recording(s) (T>1). The percentages are calculated based on the z-scored sLORETA amplitudes of all the available voxels (6239) and across all the 1 Hz frequency bins (45). The charts below show the change in deviant z-scores for different frequency bands.



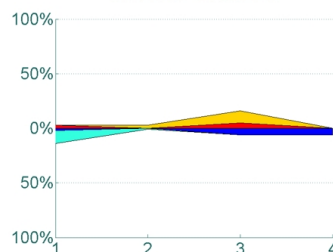
DELTA (1-3 HZ)



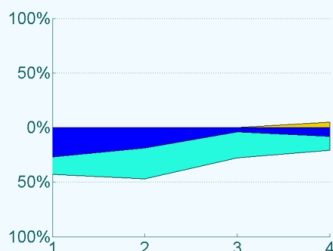
THETA (4-8 HZ)



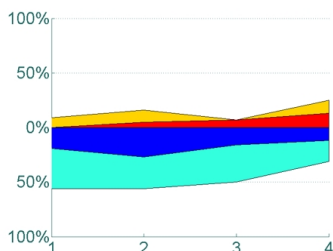
ALPHA (8-12 HZ)



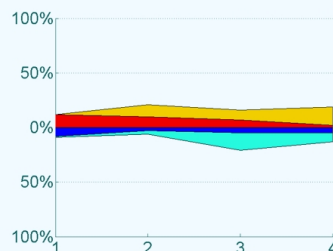
LOBETA (12:15 HZ)



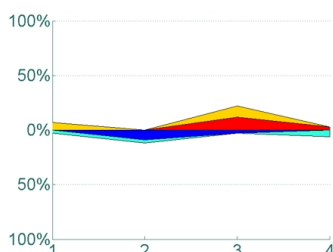
BETA (15-20 HZ)



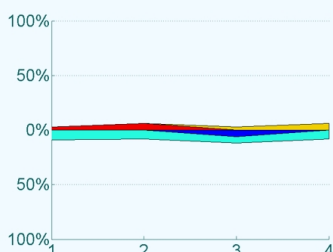
HIBETA (20-30 HZ)



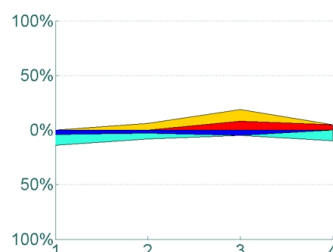
GAMMA (35-45 HZ)



ALPHA1 (8-10 HZ)



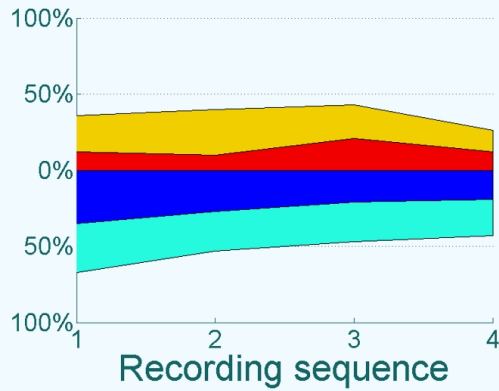
ALPHA2 (10-12 HZ)



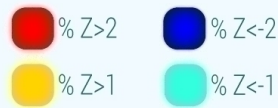
# QEEG COMPARISON REPORT

## SOURCE COHERENCE

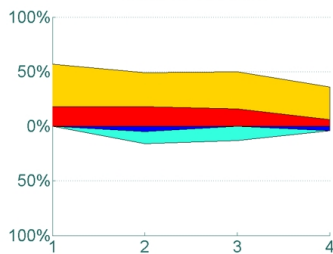
### % DEVIANCE: SOURCE COHERENCE



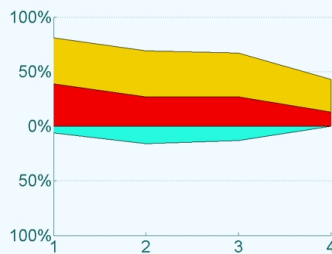
The '% Deviance: Source Coherence' chart compares the percentage z-scores that are considered deviant between the first EEG recording (T=1) and the following EEG recording(s) (T>1). The percentages are calculated based on the z-scored sLORETA coherence between all the available brodmann areas (42) and across all the available frequency bands (9). The charts below show the change in deviant z-scores for different frequency bands.



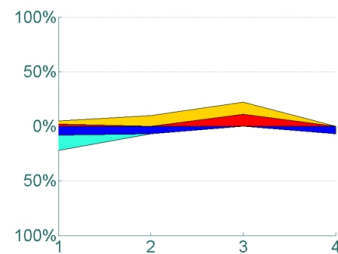
DELTA (1-3 HZ)



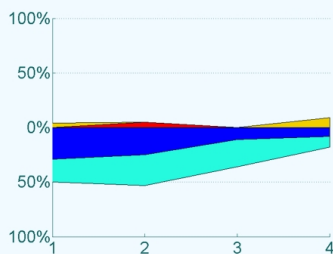
THETA (4-8 HZ)



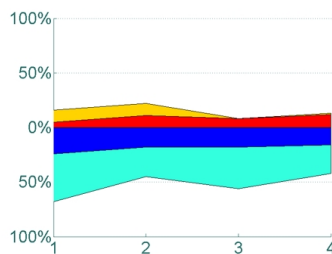
ALPHA (8-12 HZ)



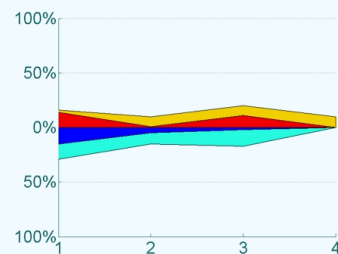
LOBETA (12-15 HZ)



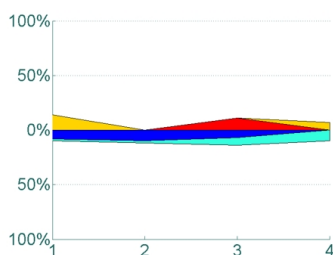
BETA (15-20 HZ)



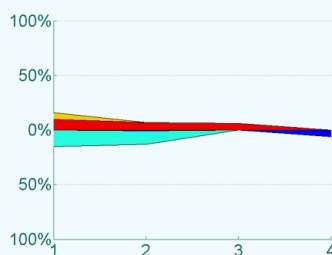
HIBETA (20-30 HZ)



GAMMA (35-45 HZ)



ALPHA1 (8-10 HZ)



ALPHA2 (10-12 HZ)

