**Statistical analysis paper**

Attached is the data to analyse.

In the present study of BMLD, we are analysing the effect of three variables namely frequency, duration of stimuli and phase on the acquired BMLD values from trials.

1. BMLD vs Frequency (125, 250, 500, 750 and 1000 Hz)
2. BMLD vs Duration of Stimuli (ABR(3ms), MLR (18ms) and LLR (48ms))
3. BMLD vs Input Phase (Antiphase or Homophase)

I found the attached paper as a similar thing done on data. I am quoting the method from the paper and asking you whether this can be done on the attached data set. So that I can get some valid results. I am also attaching the paper I have worked and submitted. But my supervisor had attached set of comments and told me to do compare parameters as 1,2,3 above for the data set (supervisor comments attached). Can you tell me your suggestions and r u possible to do it. It should not take much time. Need the results in coming week beginning.

Average values were calculated for S0N0 and SπN0. The BMLD was calculated as the overall difference between the average S0NO and SπN0 values.

An unpaired t-test was used to determine whether the five thresholds from N0S0 were statistically different from the five N0Sπ thresholds, with p<0.05 being the criterion for significance.

For the pooled data, average thresholds and BMLD were calculated over all stimulus frequencies. A repeated-measures analysis of variance (r.m. ANOVA) was performed on the thresholds to determine the effect of phase (N0S0 and N0Sπ), duration (3ms, 18ms, and 48ms), and signal frequency (125, 250, 500, 750 and 1000 Hz).