

The progression pattern of male hyrax songs and the role of climactic ending

Vlad Demartsev^{1,2,*}, Amiyaal Ilany³, Arik Kershenbaum⁴, Yair Geva¹, Ori Margalit¹, Inbar Schnitzer³, Adi Barocas⁵, Einat Bar-Ziv⁶, Lee Koren³
and Eli Geffen¹

¹*Dept. of Zoology, Tel Aviv University, Tel Aviv 69978, Israel.*

²*Dept. of Evolutionary Biology and Environmental Studies, University of Zurich, Zurich 8057, Switzerland*

³*The Mina and Everard Goodman Faculty of Life Sciences, Bar-Ilan University, Ramat-Gan, 52900 Israel.*

⁴*Dept. of Zoology, University of Cambridge, Cambridge, UK*

⁵*Dept. of Zoology and Physiology and Program in Ecology, University of Wyoming, Laramie, WY 82071, USA.*

⁶*Mitrani Dept. of Desert Ecology, Ben-Gurion University of the Negev, 8499000 Israel*

***Corresponding author:** Vlad Demartsev *Dept. of Zoology, Tel Aviv University, Tel Aviv 69978, Israel. Dept. of Evolutionary Biology and Environmental Studies, University of Zurich, Zurich 8057, Switzerland* E-Mail: demartsev@gmail.com Tel.+41766516340

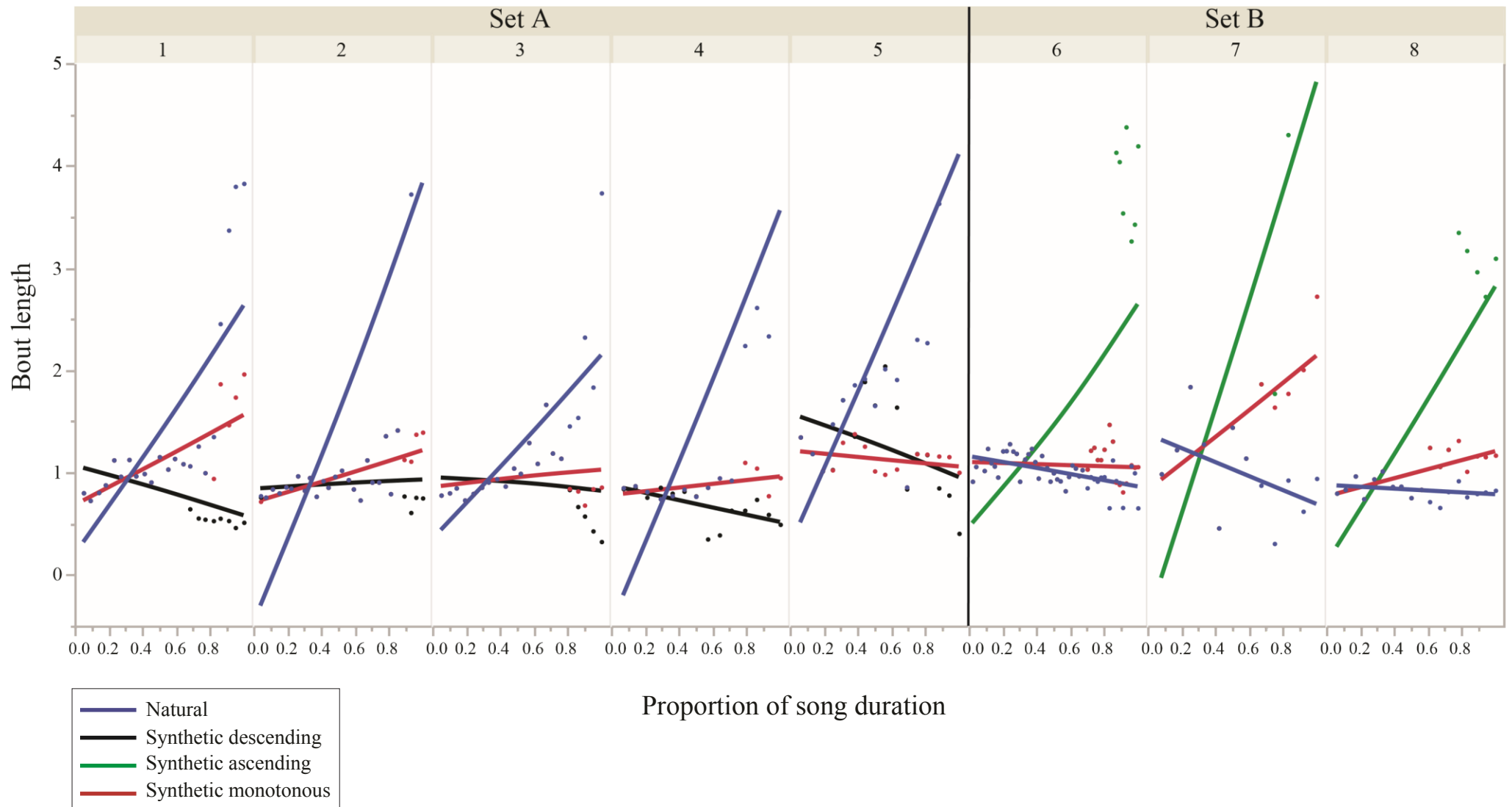
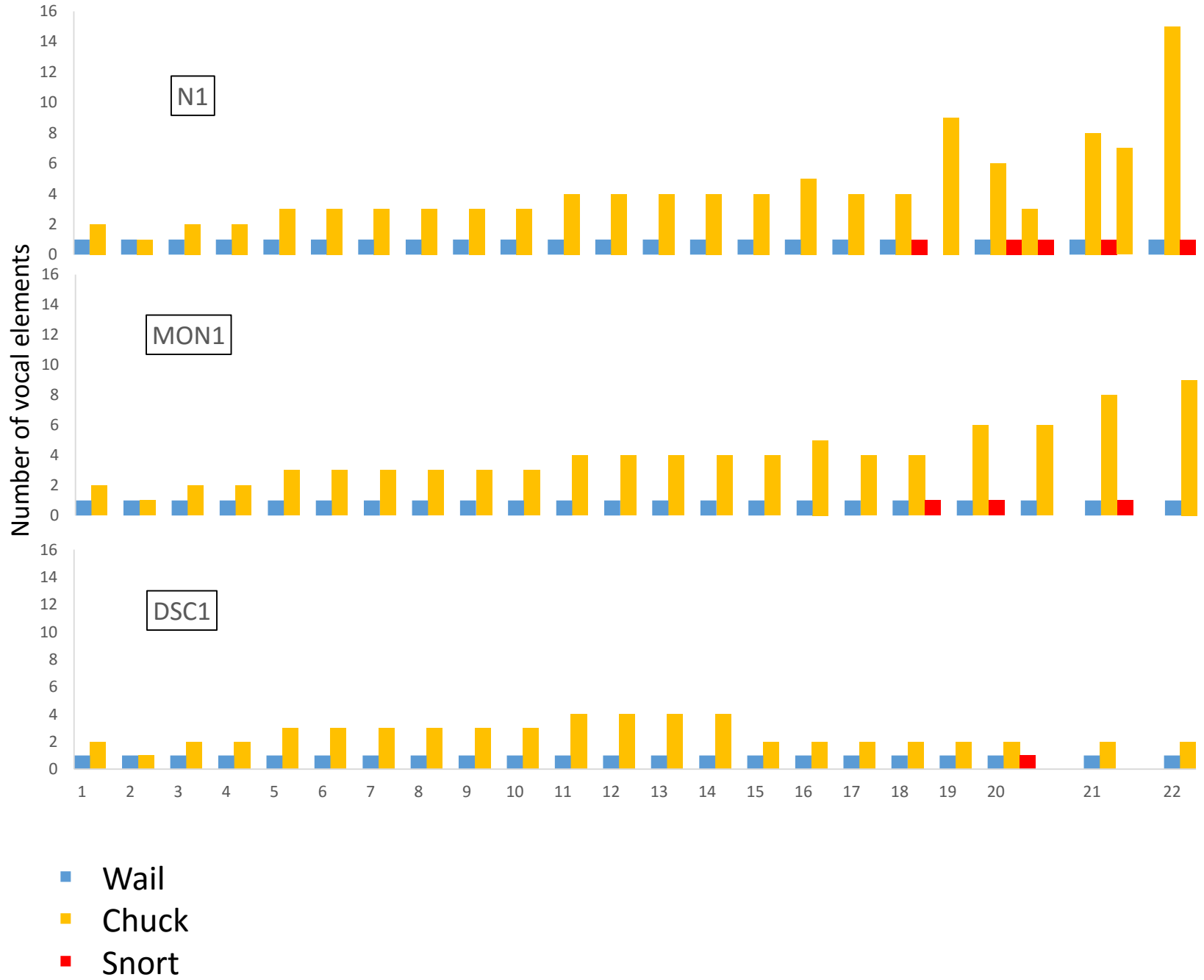
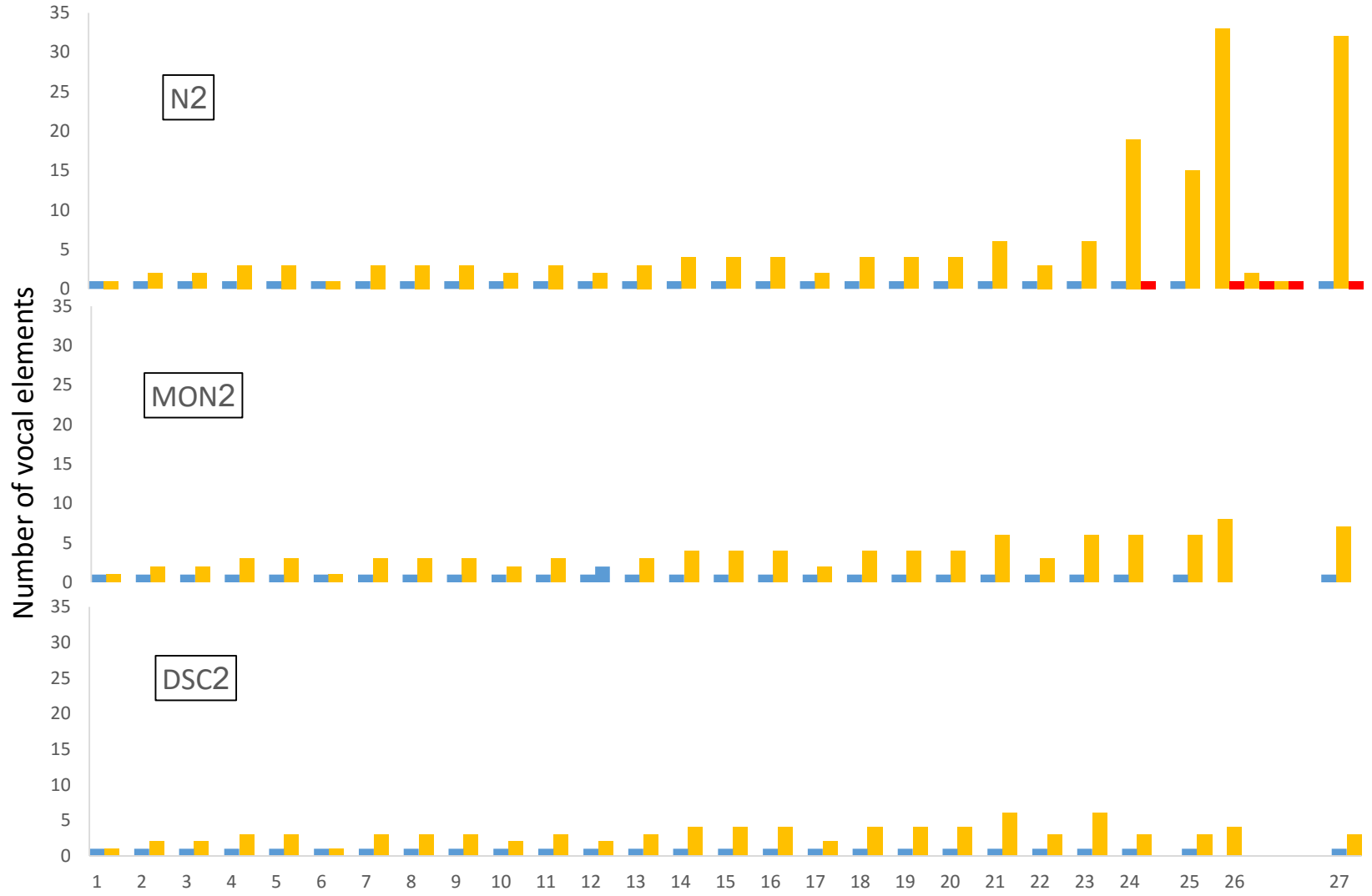
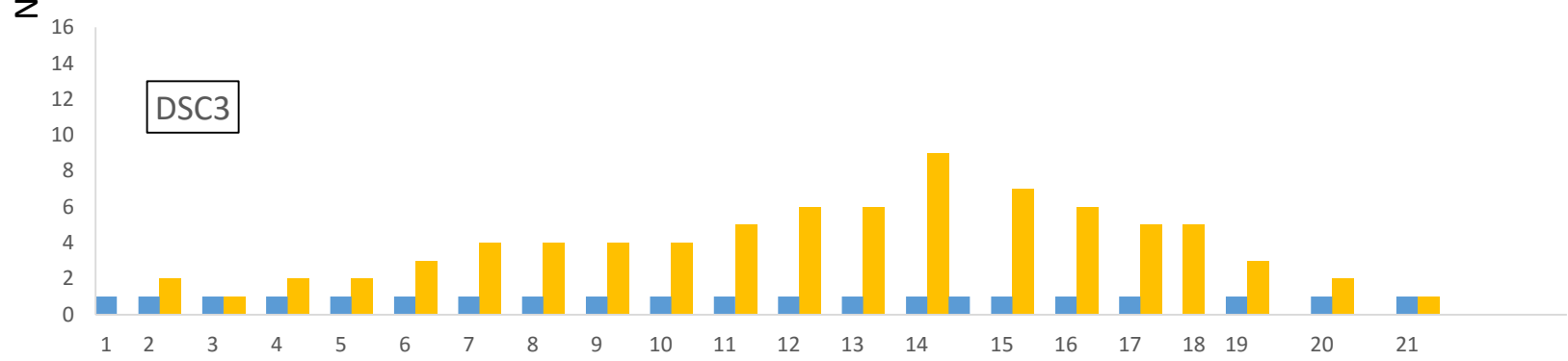
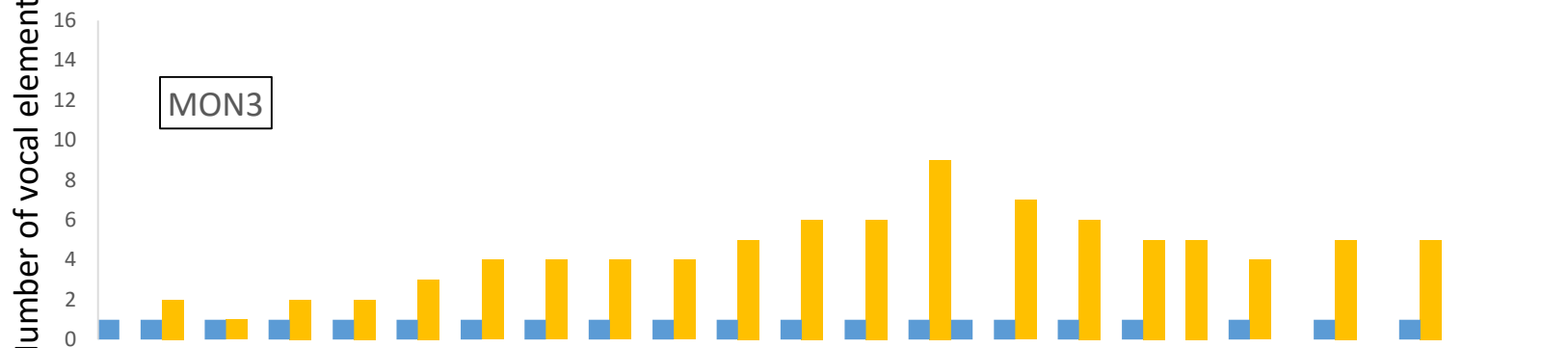
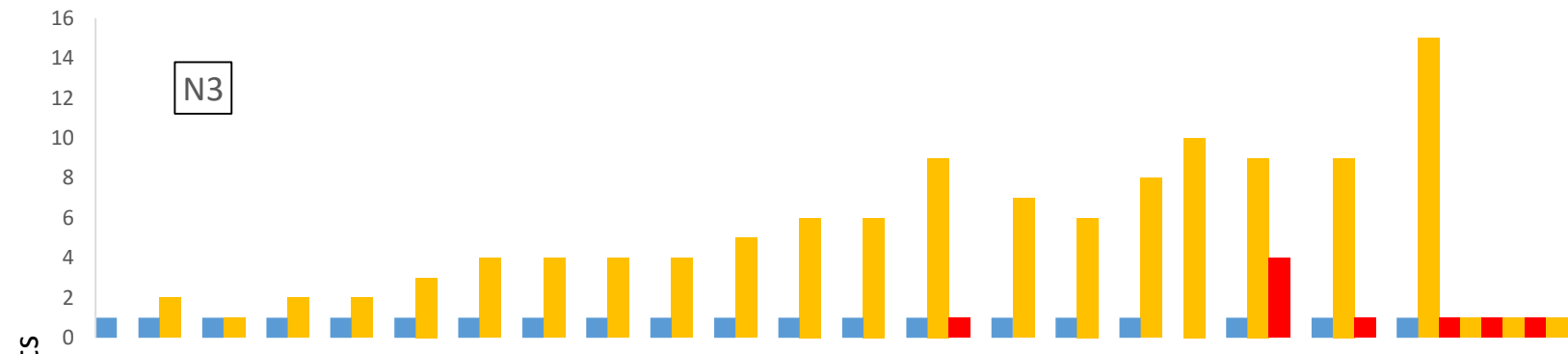


Fig S1: Progression of bout duration (sec) through the proportion of song length for tracks used in playback trials. SetA: Tracks used in trials in which Natural ascending songs (N1-5) were manipulated to have monotonous (MON1-5) or descending (DSC1-5) bout duration. SetB: Tracks used in trials in which Natural descending songs (N6-8) were manipulated to have monotonous (MON6-8) or ascending (ASC6-8) bout duration

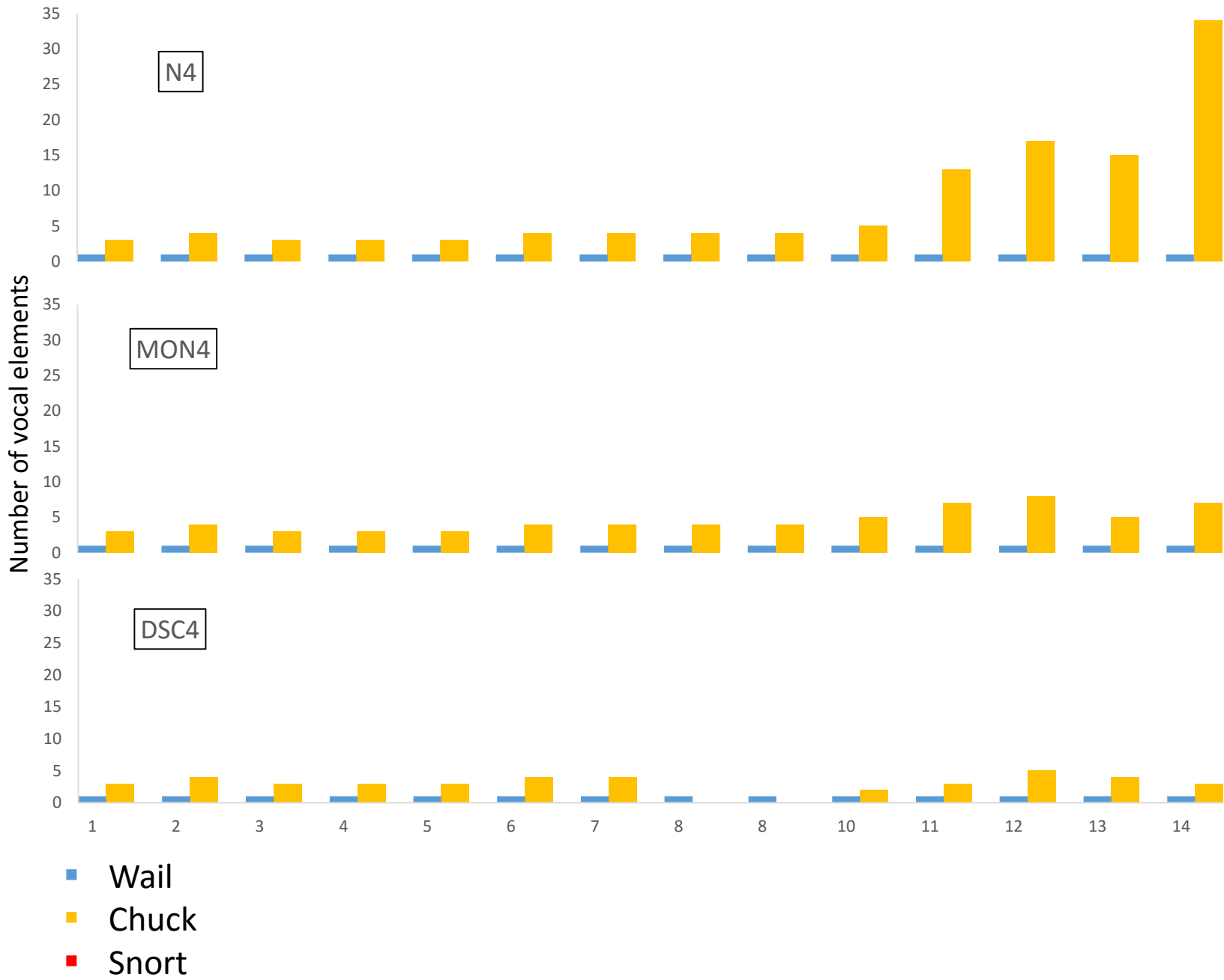


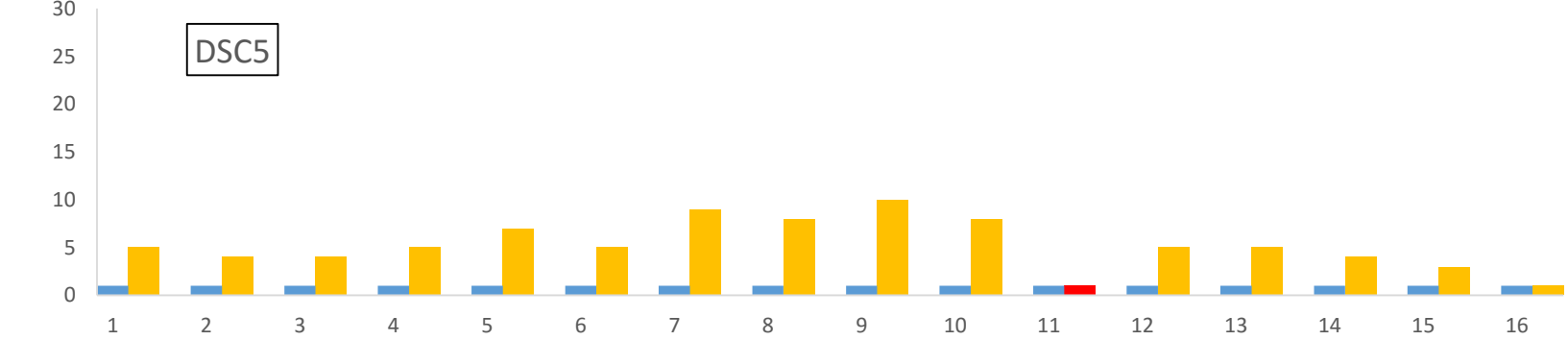
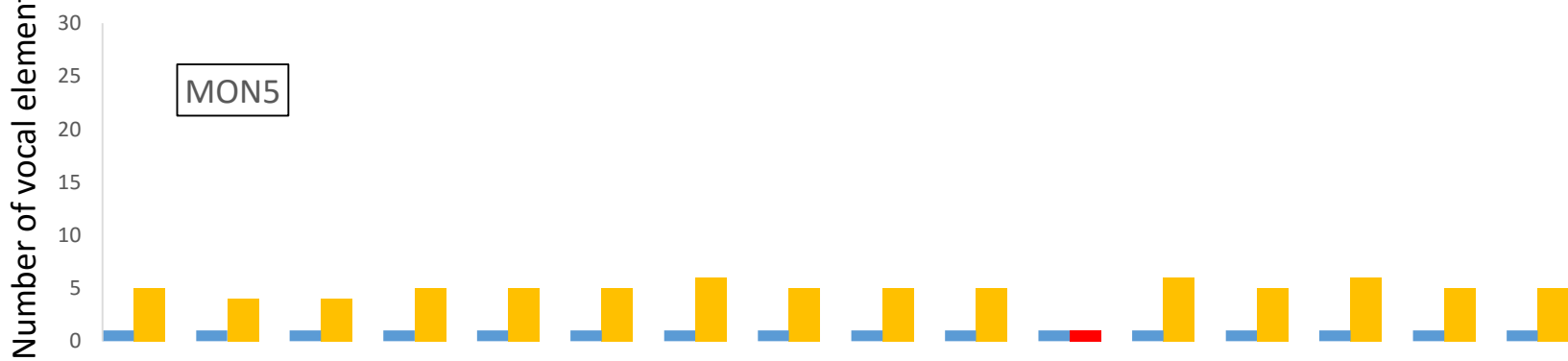
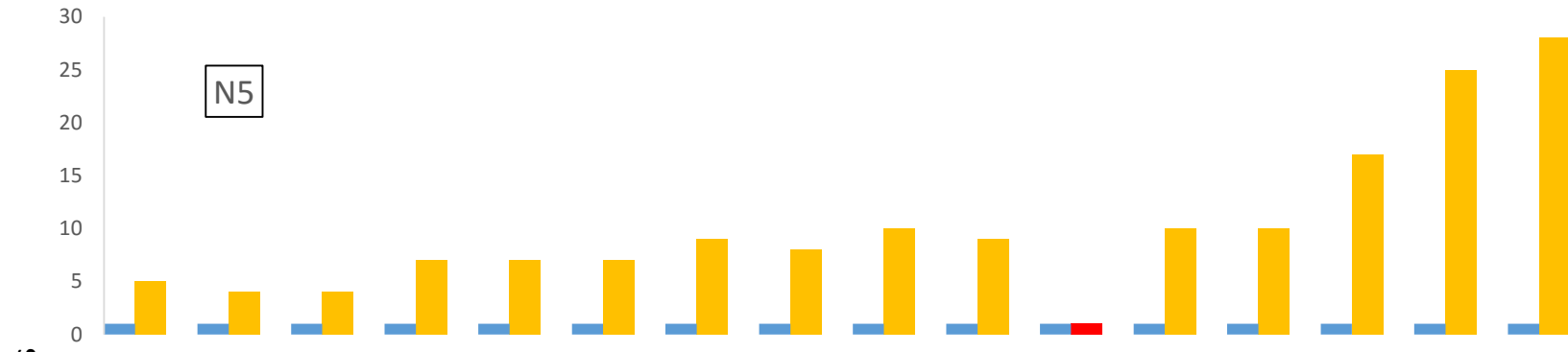


- Wail
- Chuck
- Snort

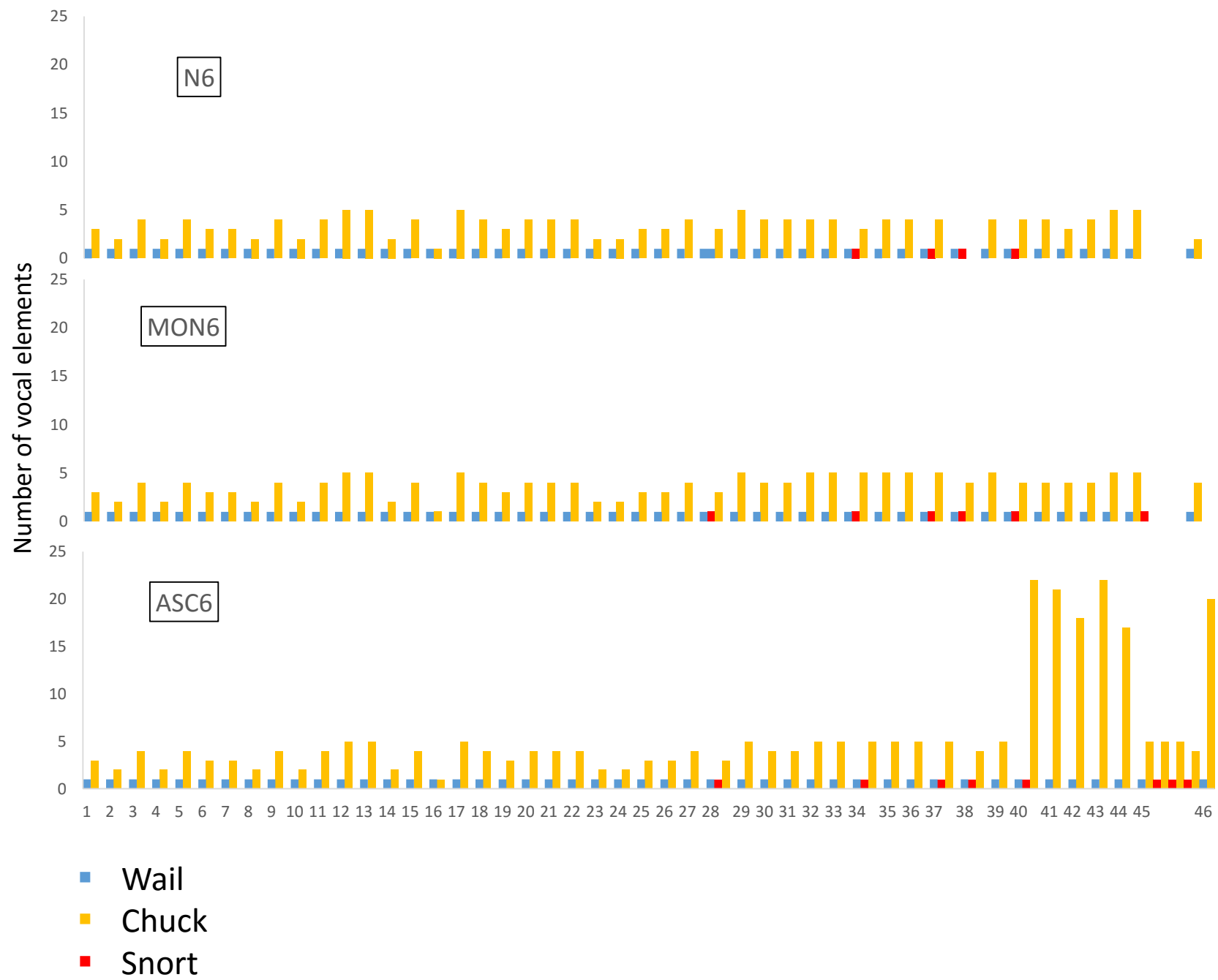


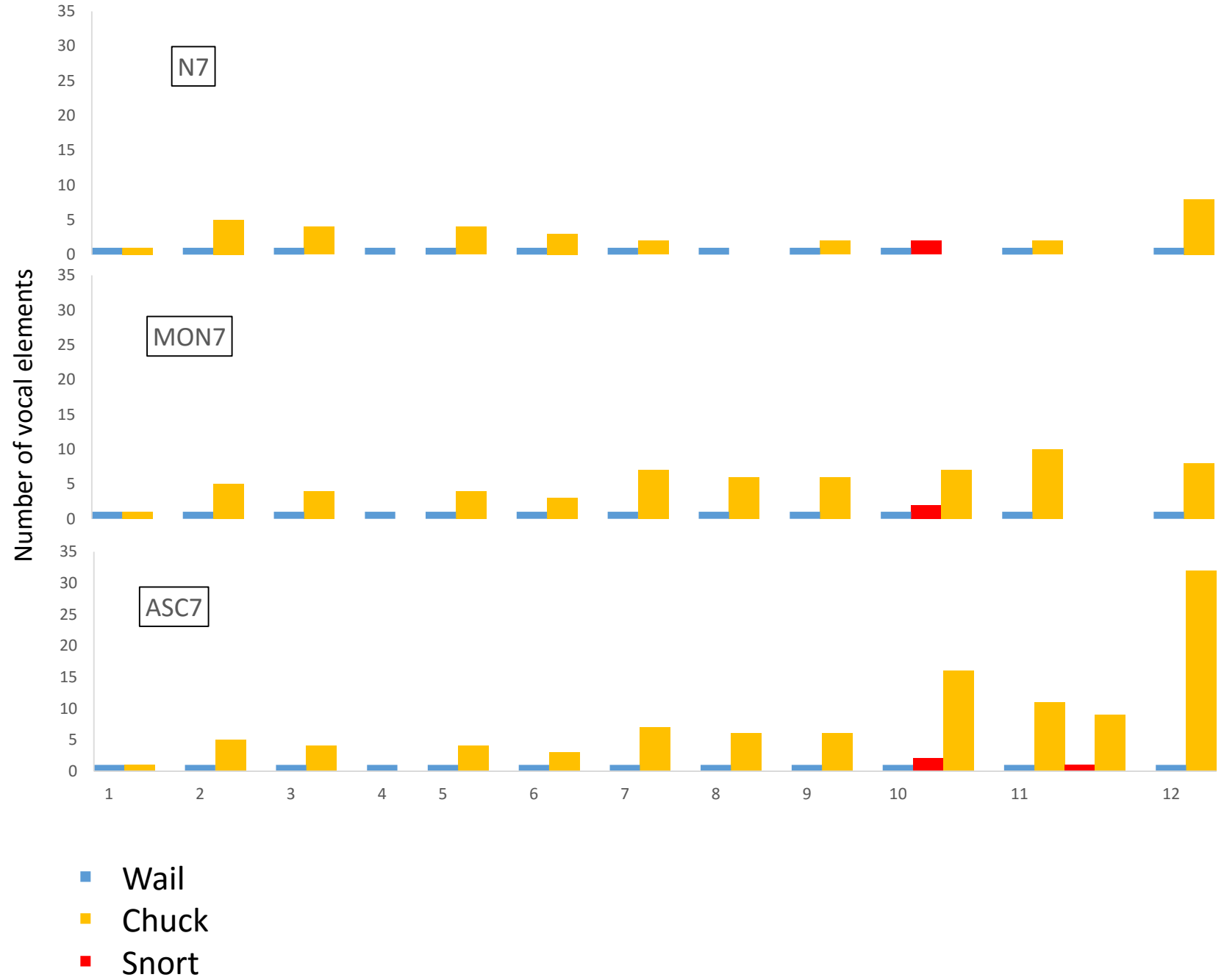
- Wail
- Chuck
- Snort

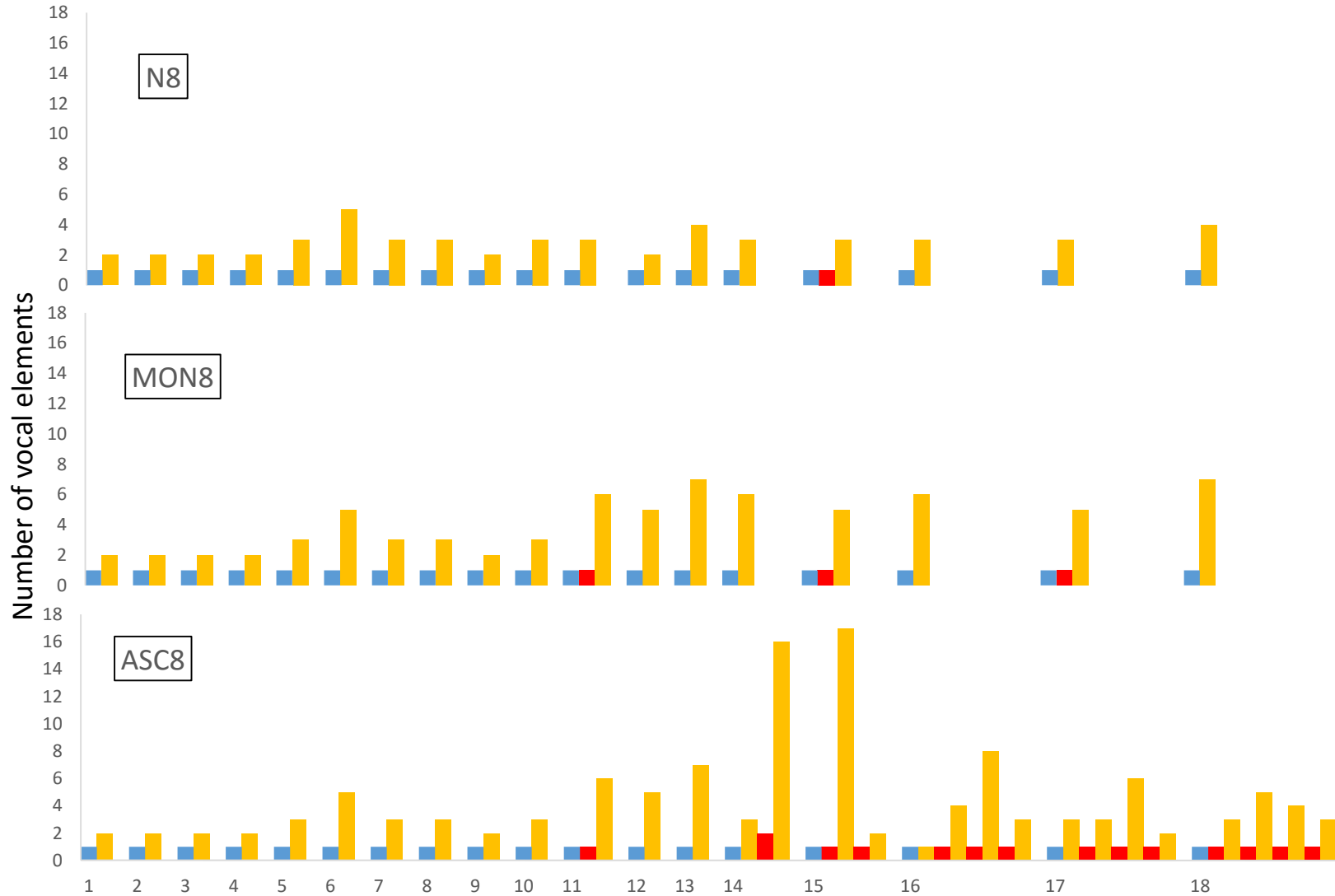




- Wail
- Chuck
- Snort







- Wail
- Chuck
- Snort

Fig. S2: Progression plots of vocal element composition over the length of tracks used in playback trials. N= Natural songs with ascending (1-5) or descending (5-8) element progression. MON (1-8) = synthetic songs manipulated to have monotonic element progression. DSC (1-5) = synthetic songs manipulated to have descending element progression. ASC (6-8) = synthetic songs manipulated to have ascending element progression.