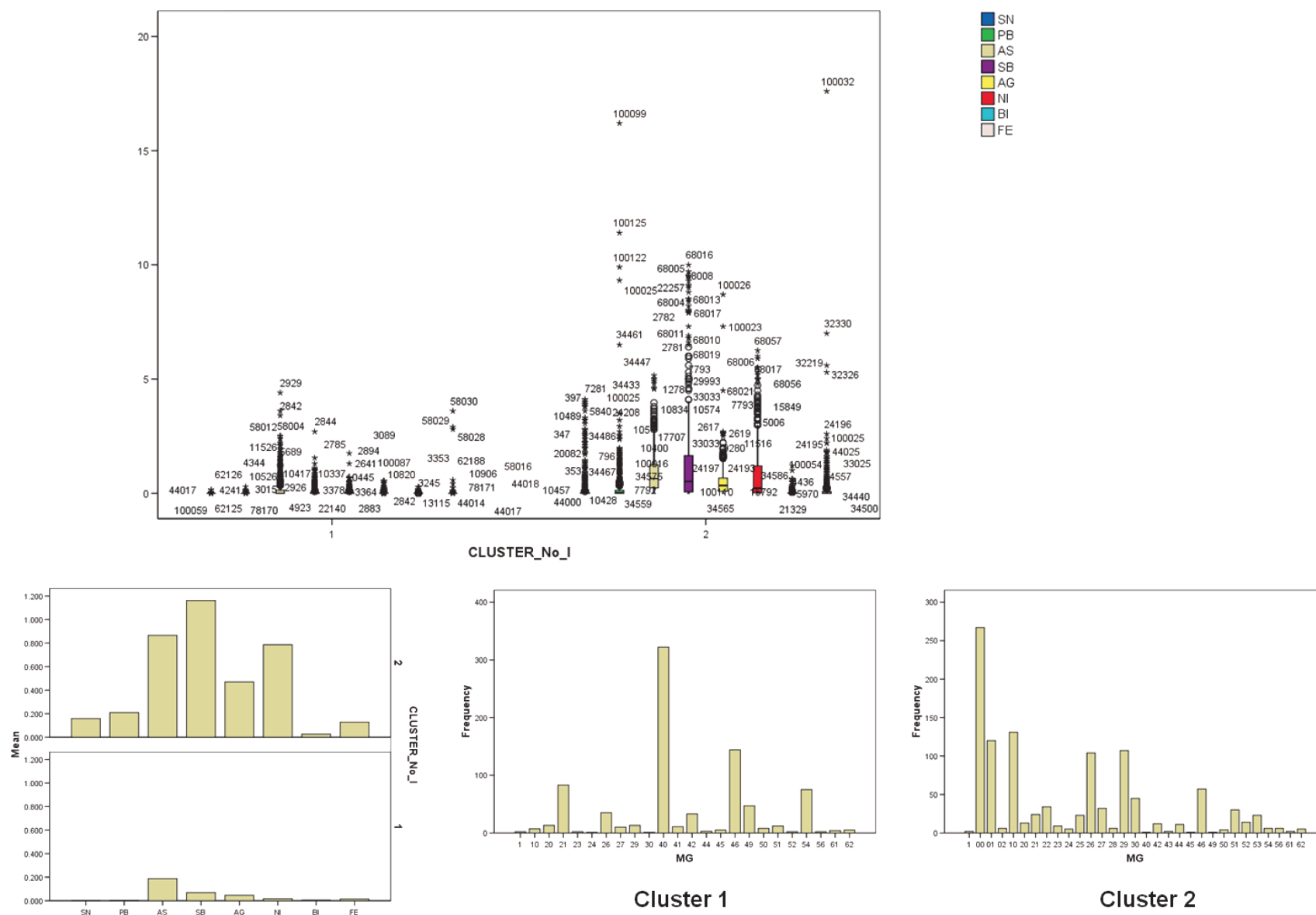
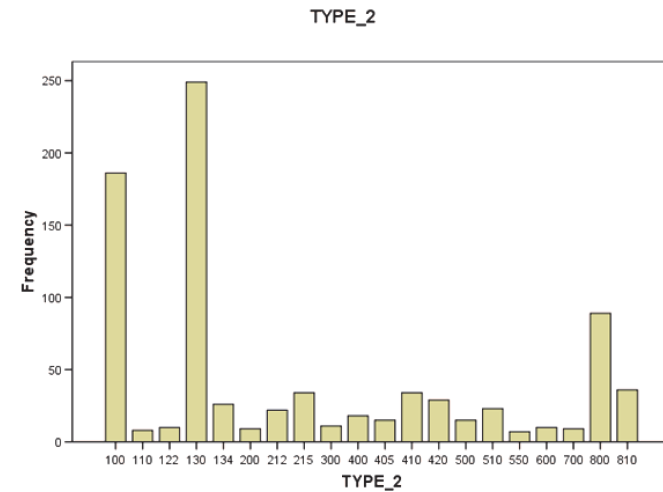
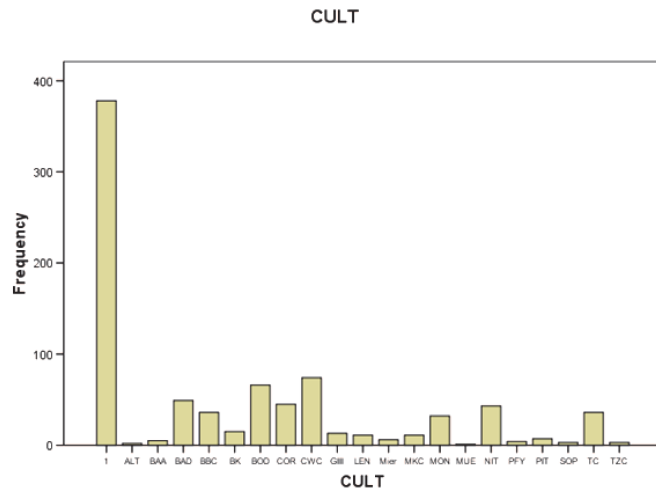
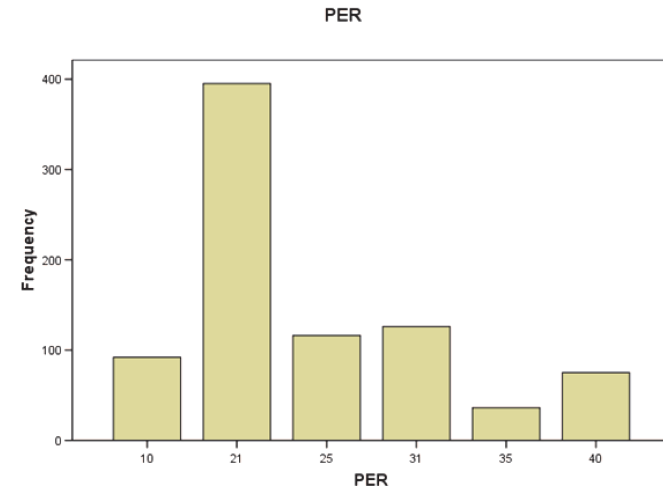
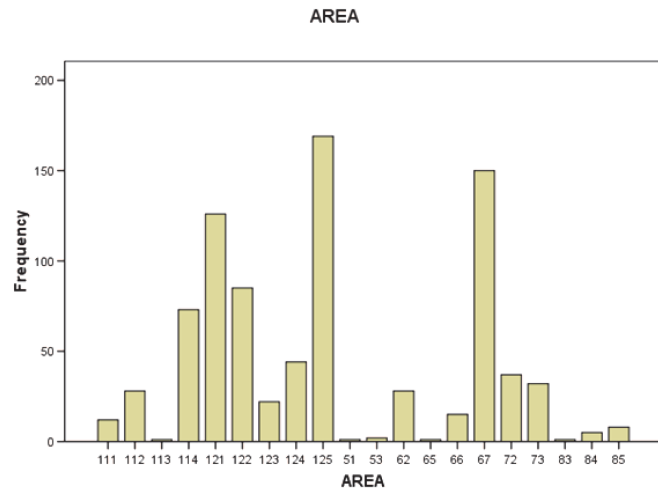


APPENDIX E:
Graphs and Plots of the Statistical Evaluation

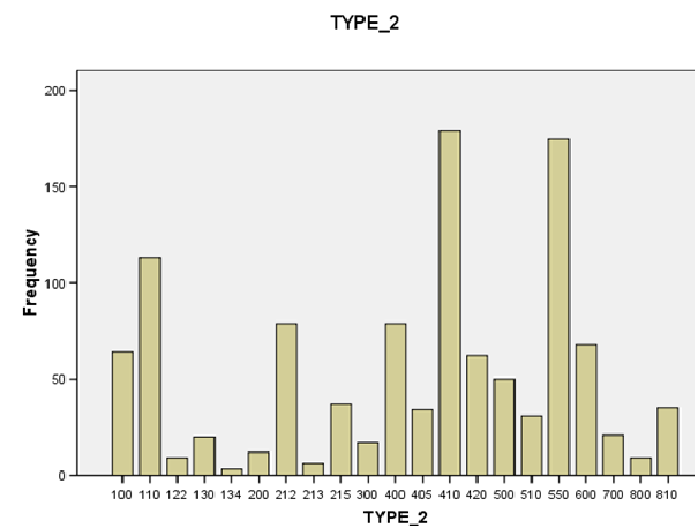
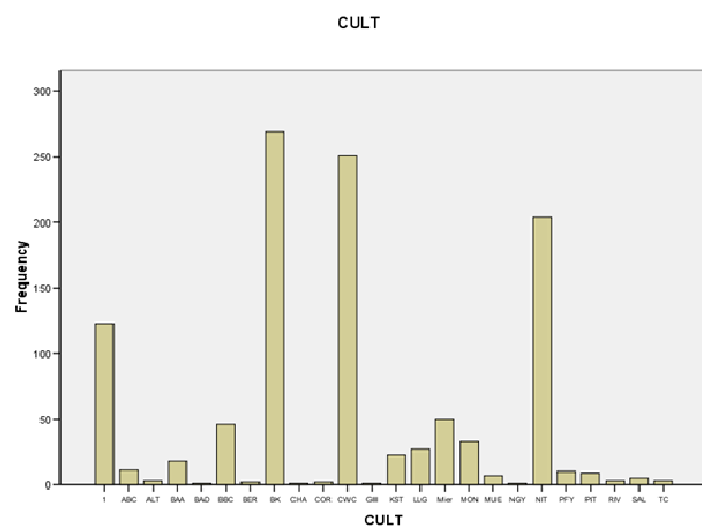
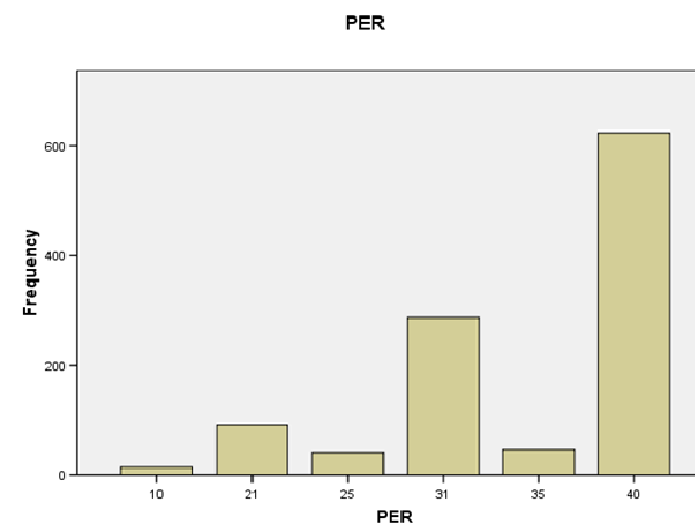
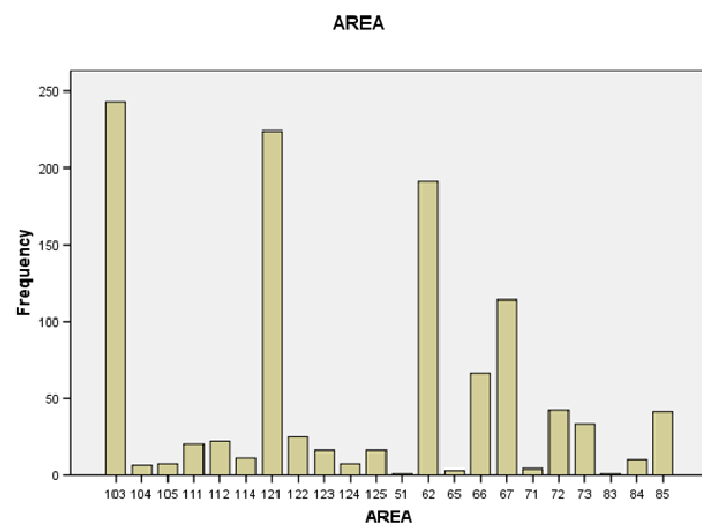


1) Box plots of the trace element compositions of the Cluster 1 and 2 of Cluster Level I (numbering refers to ANo) and the SAM-groups (MG)

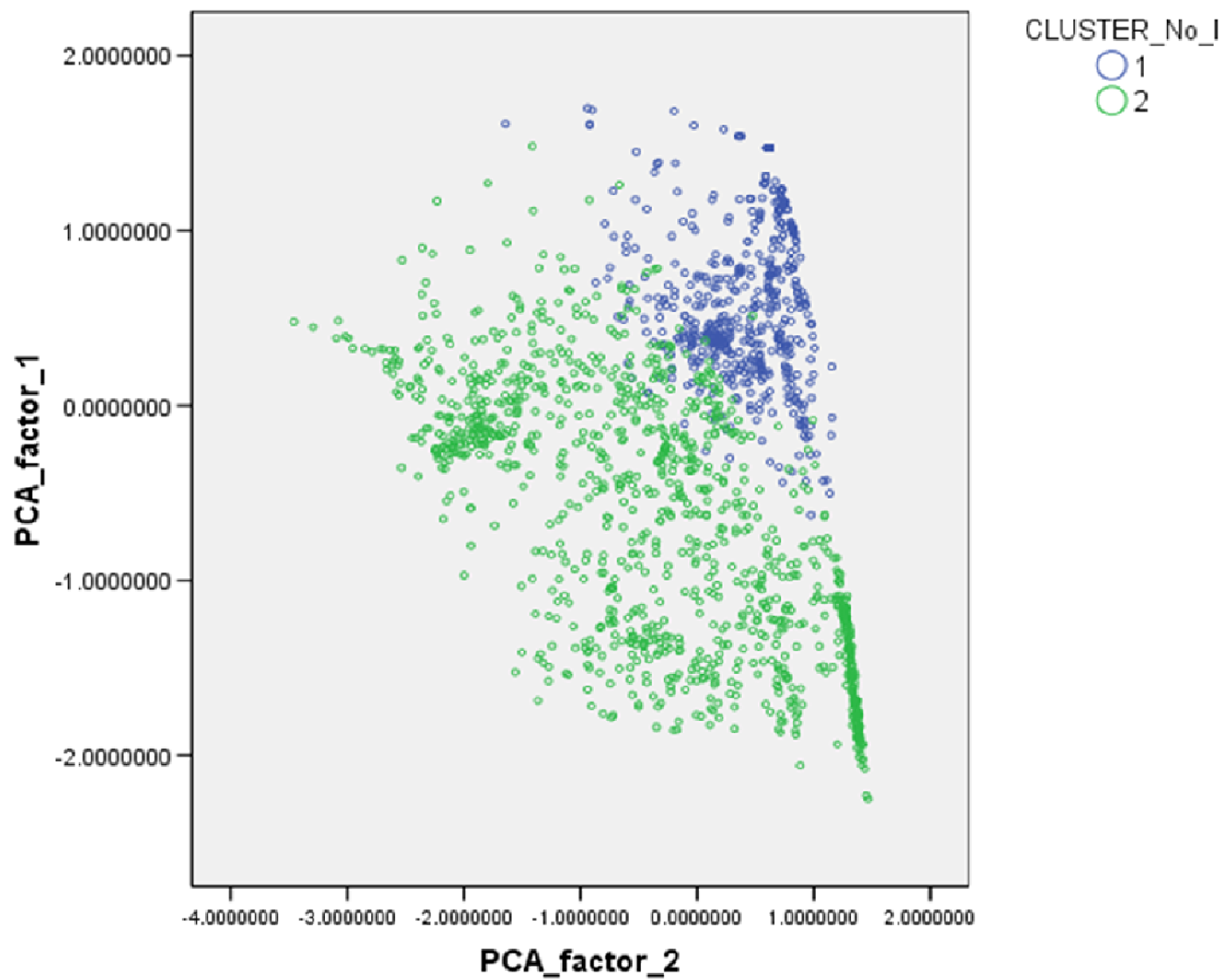


* **CULT 1** marks objects that were not classifiable according to an arch. Culture. These finds are mostly out of context and considered as Single Finds.

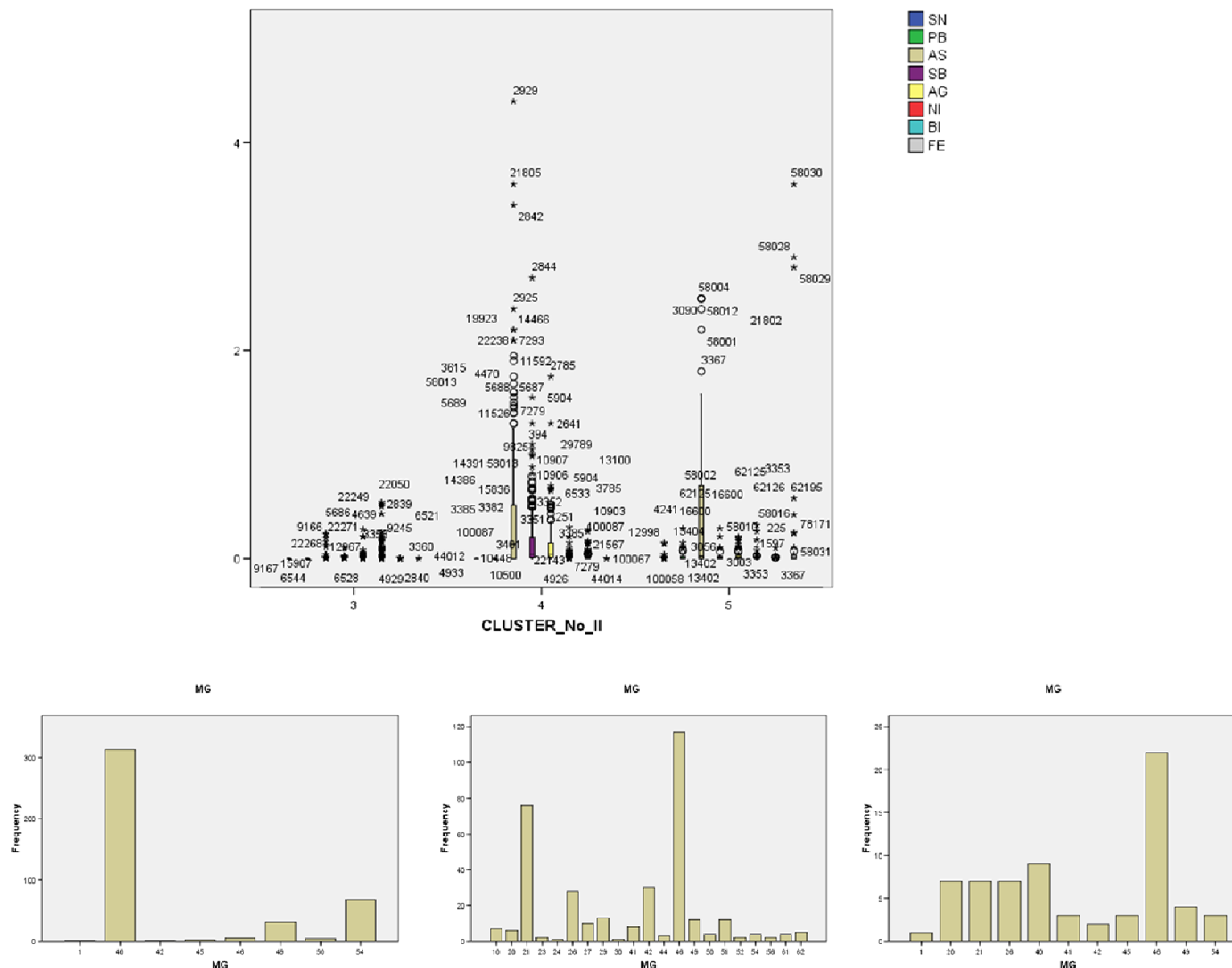
2) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 1 (the abbreviations are decoded in the Comments of the Catalogue)



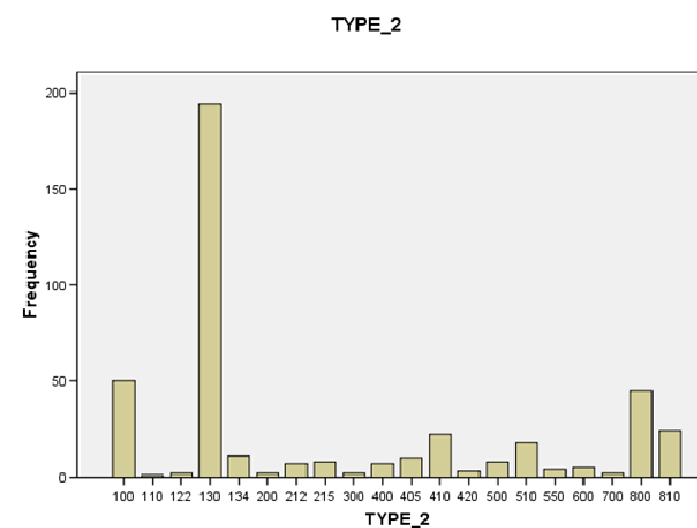
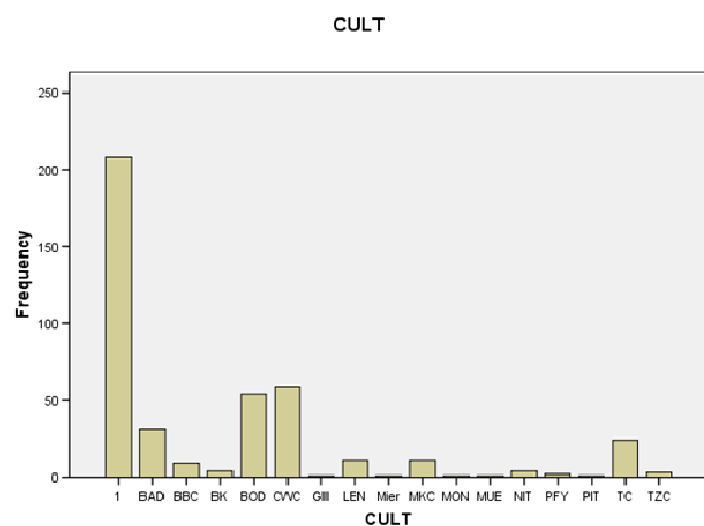
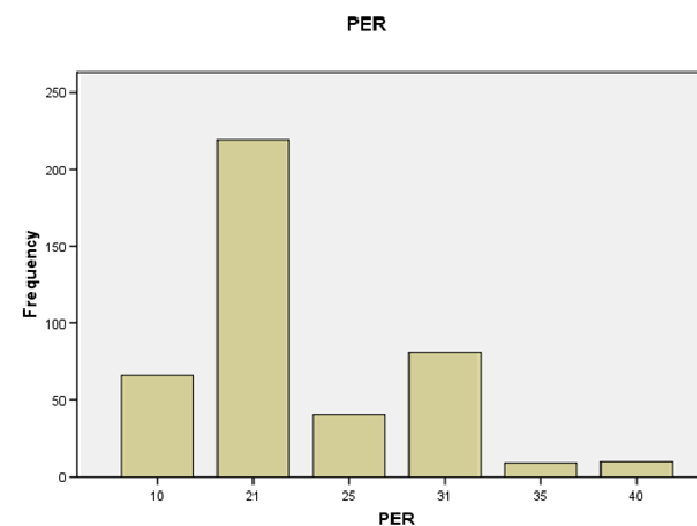
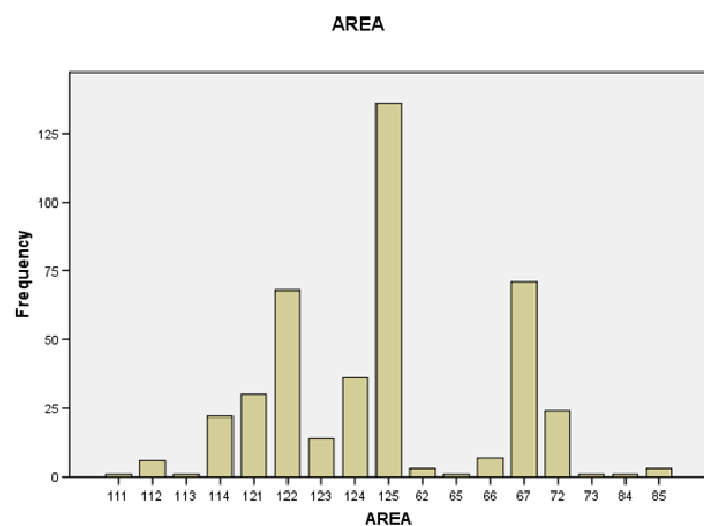
3) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 2



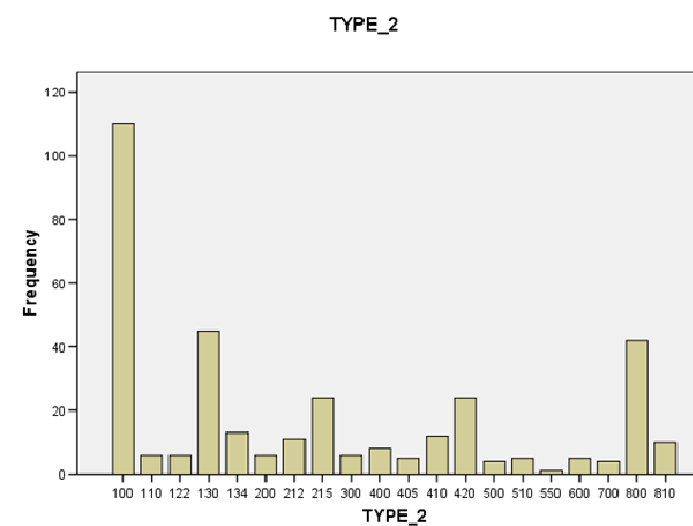
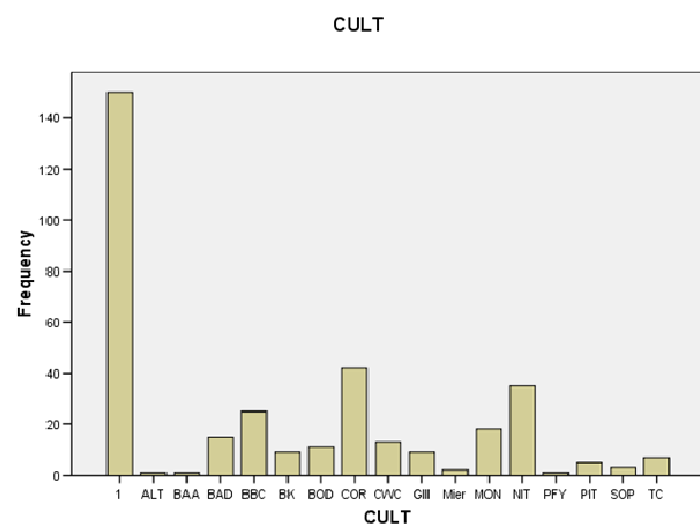
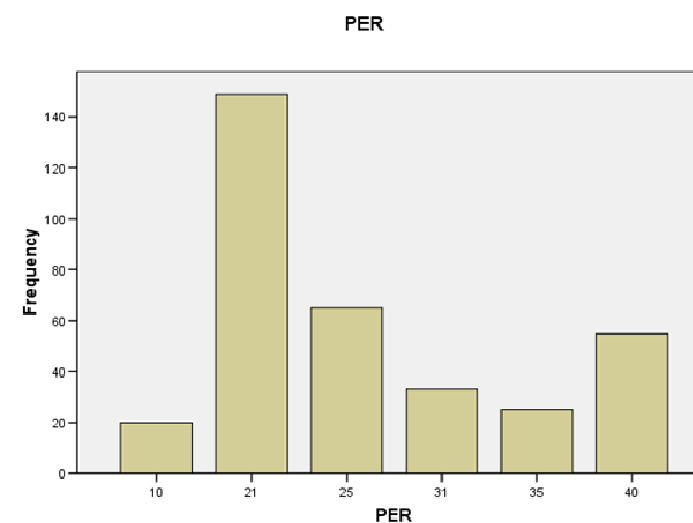
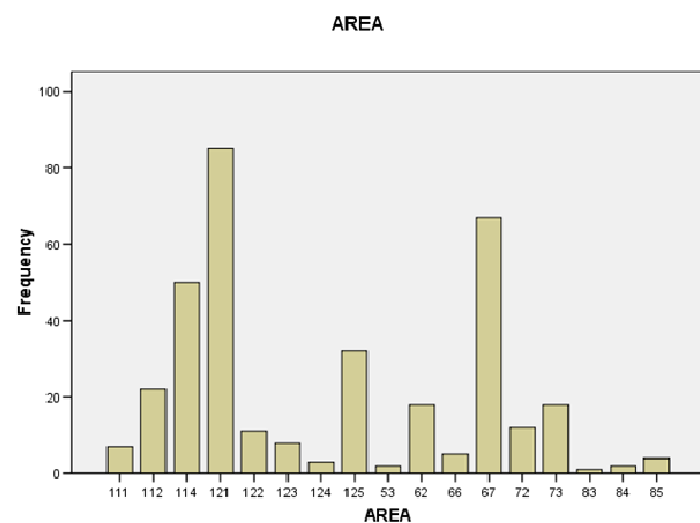
4) Scatter plot of PCA including the entire database displaying the Clusters 1 and 2 in ClusterLevel I



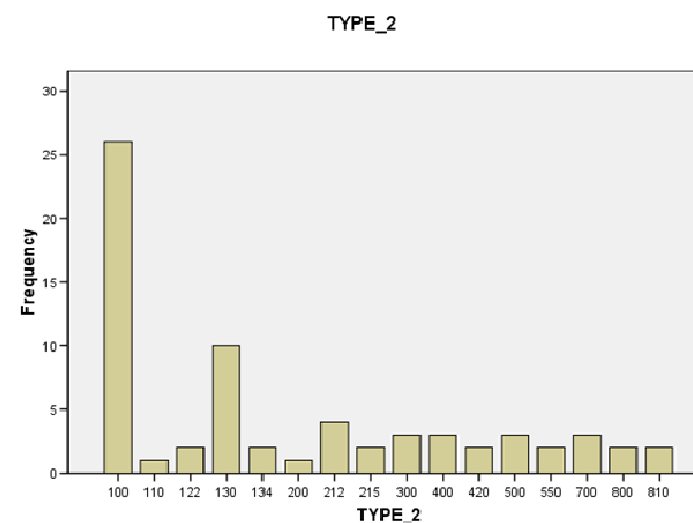
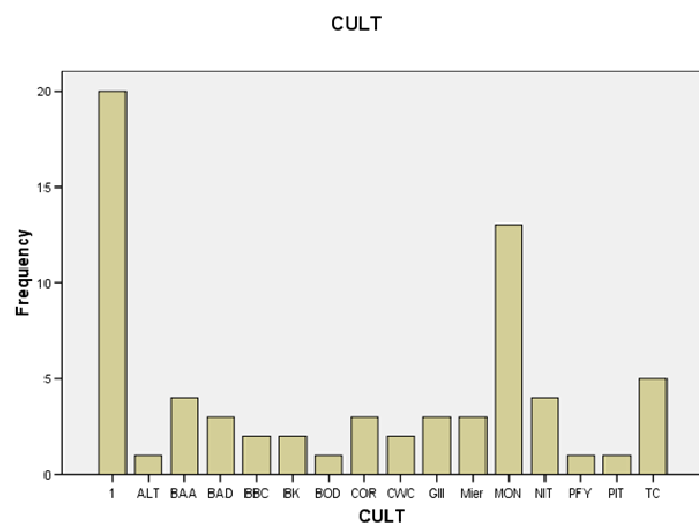
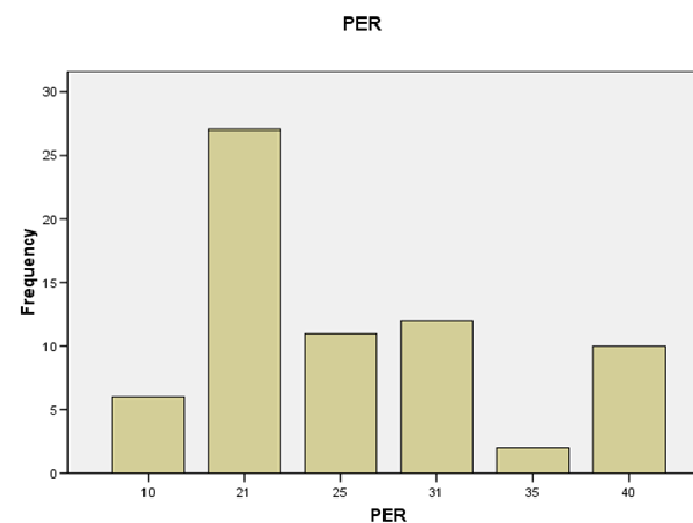
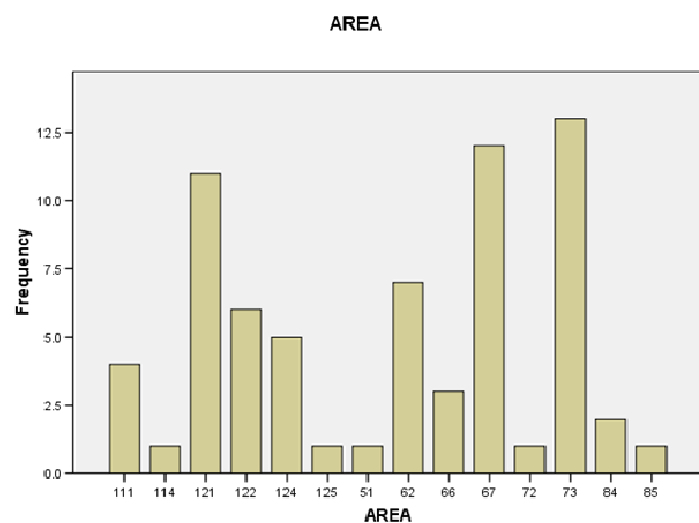
5) Box plots of the trace element compositions of the Cluster 3, 4 and 5 of Cluster Level II and the SAM-groups (MG)



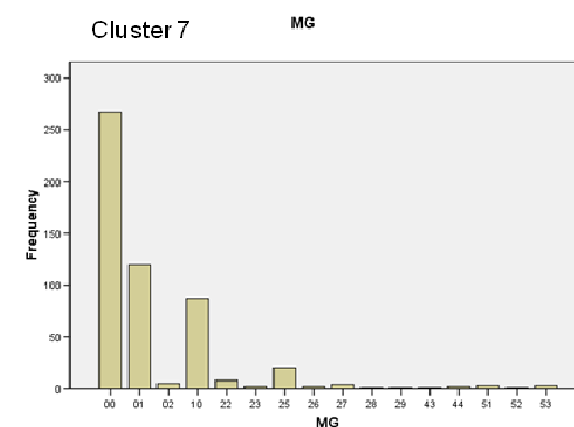
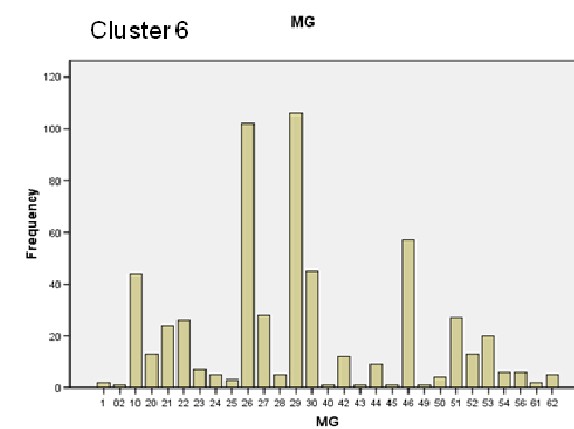
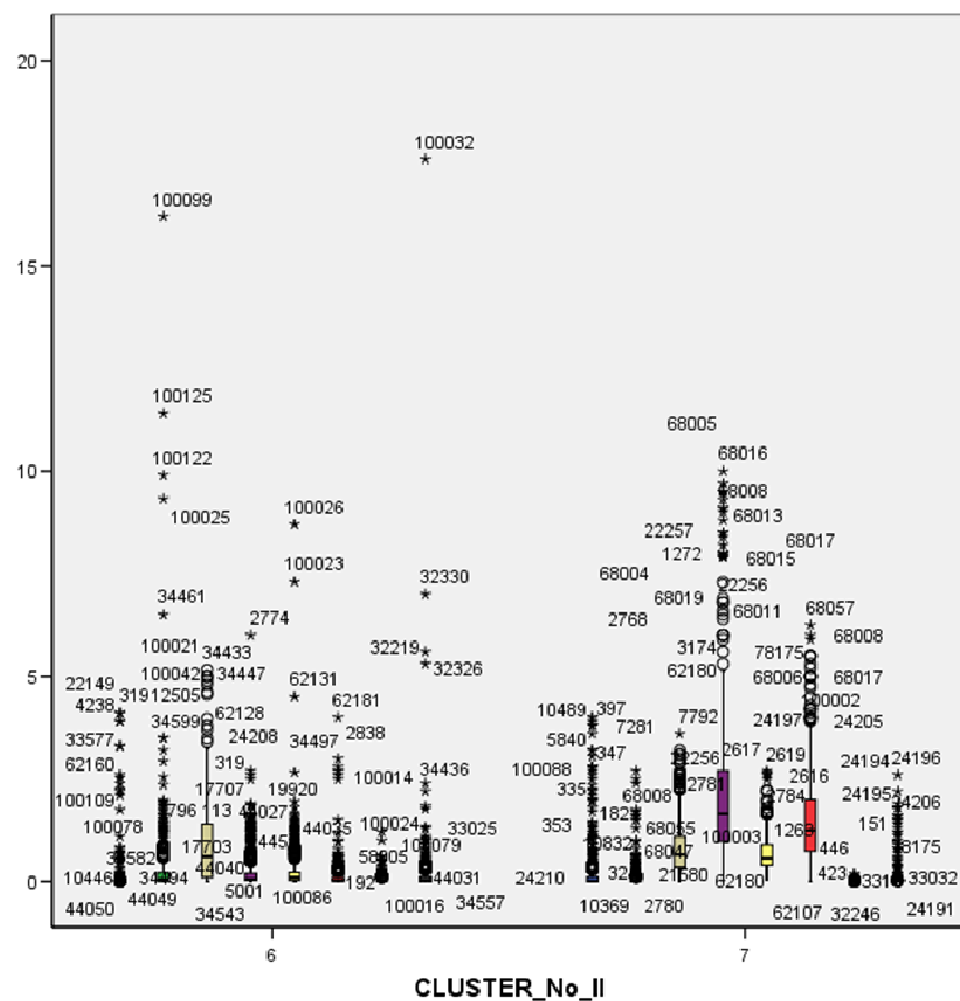
6) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 3



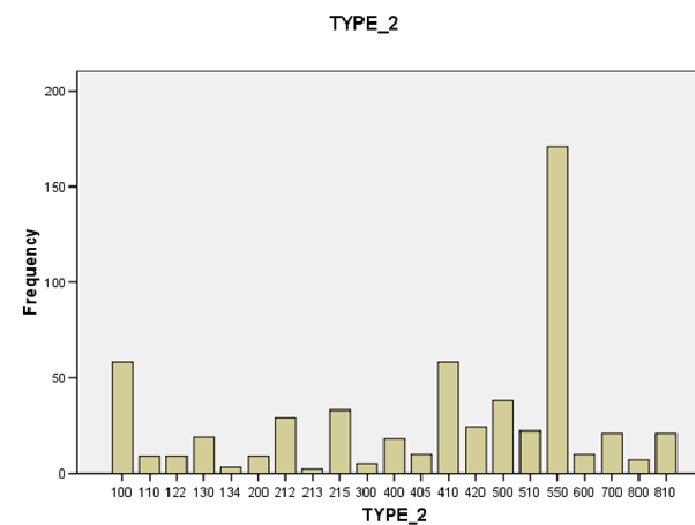
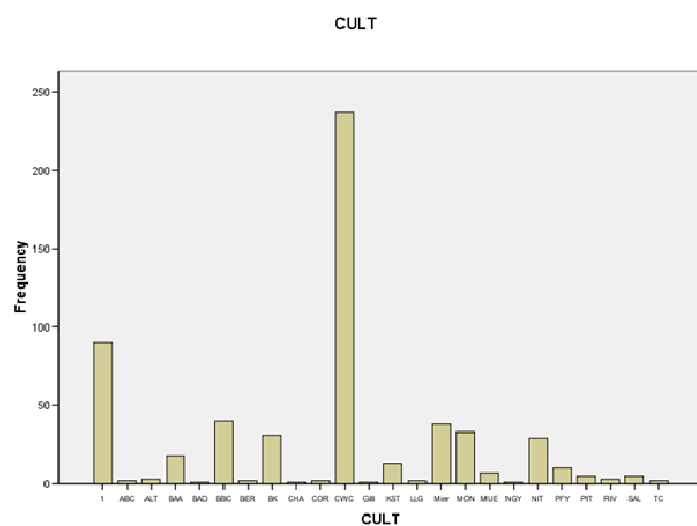
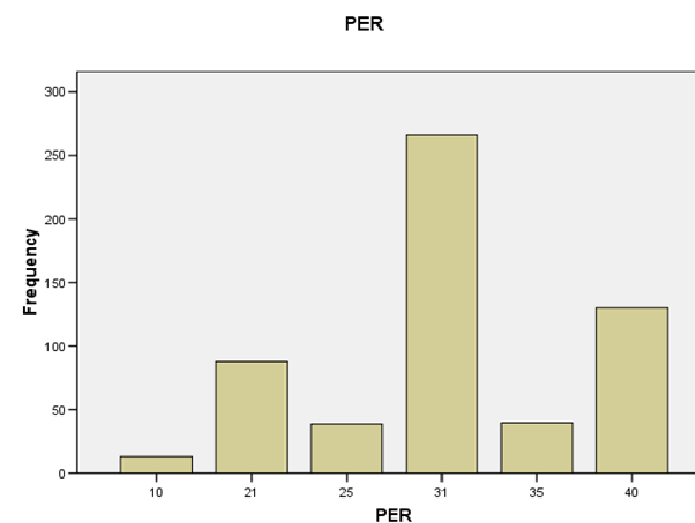
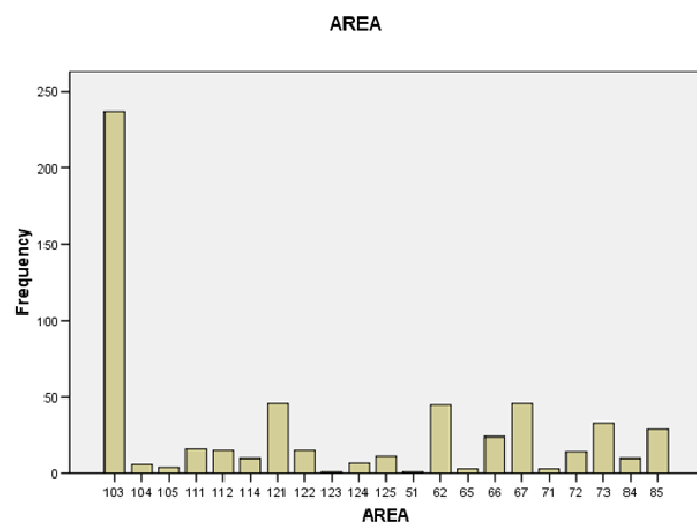
7) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 4



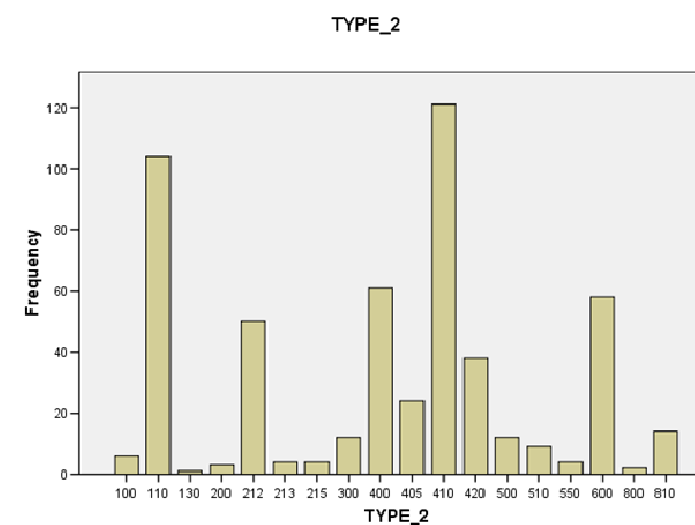
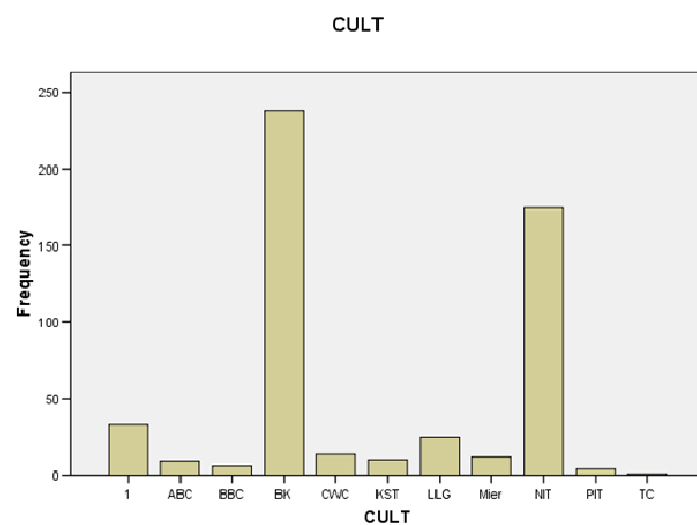
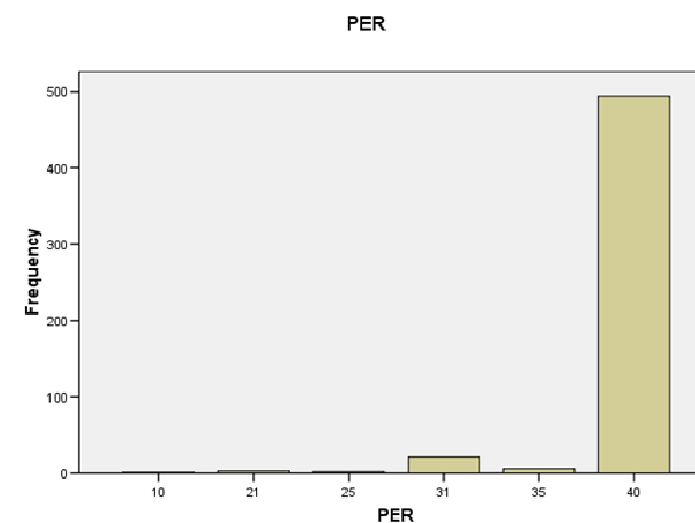
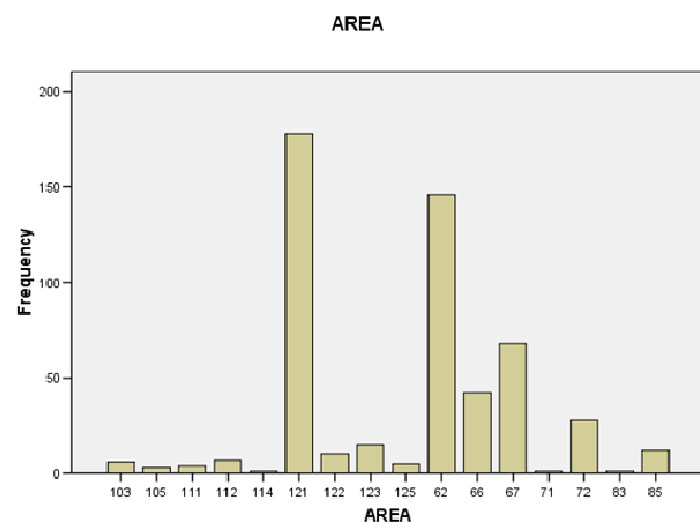
8) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 5



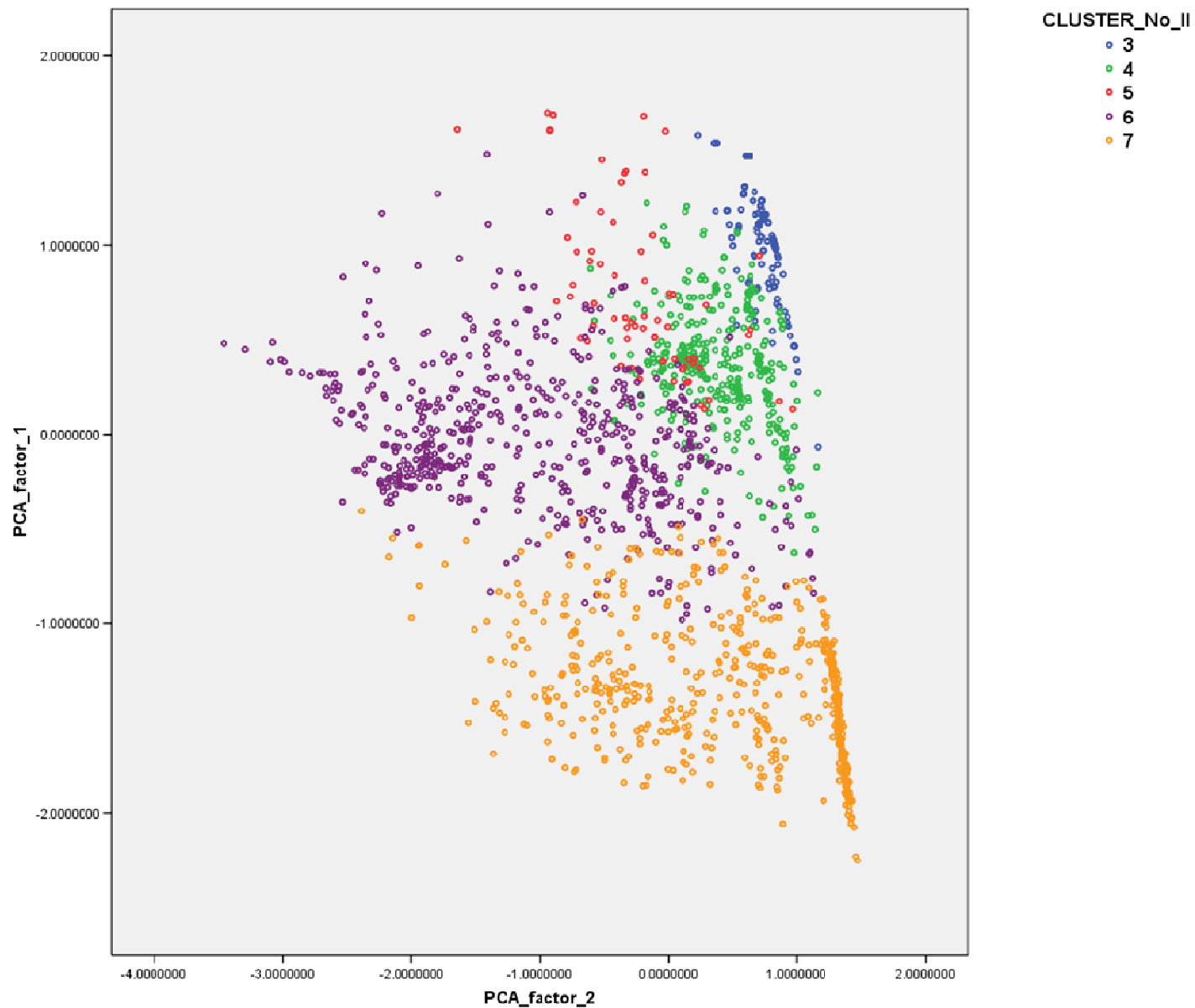
9) Box plots of the trace element compositions of the Cluster 6 and 7 of Cluster Level II and the SAM-groups (MG)



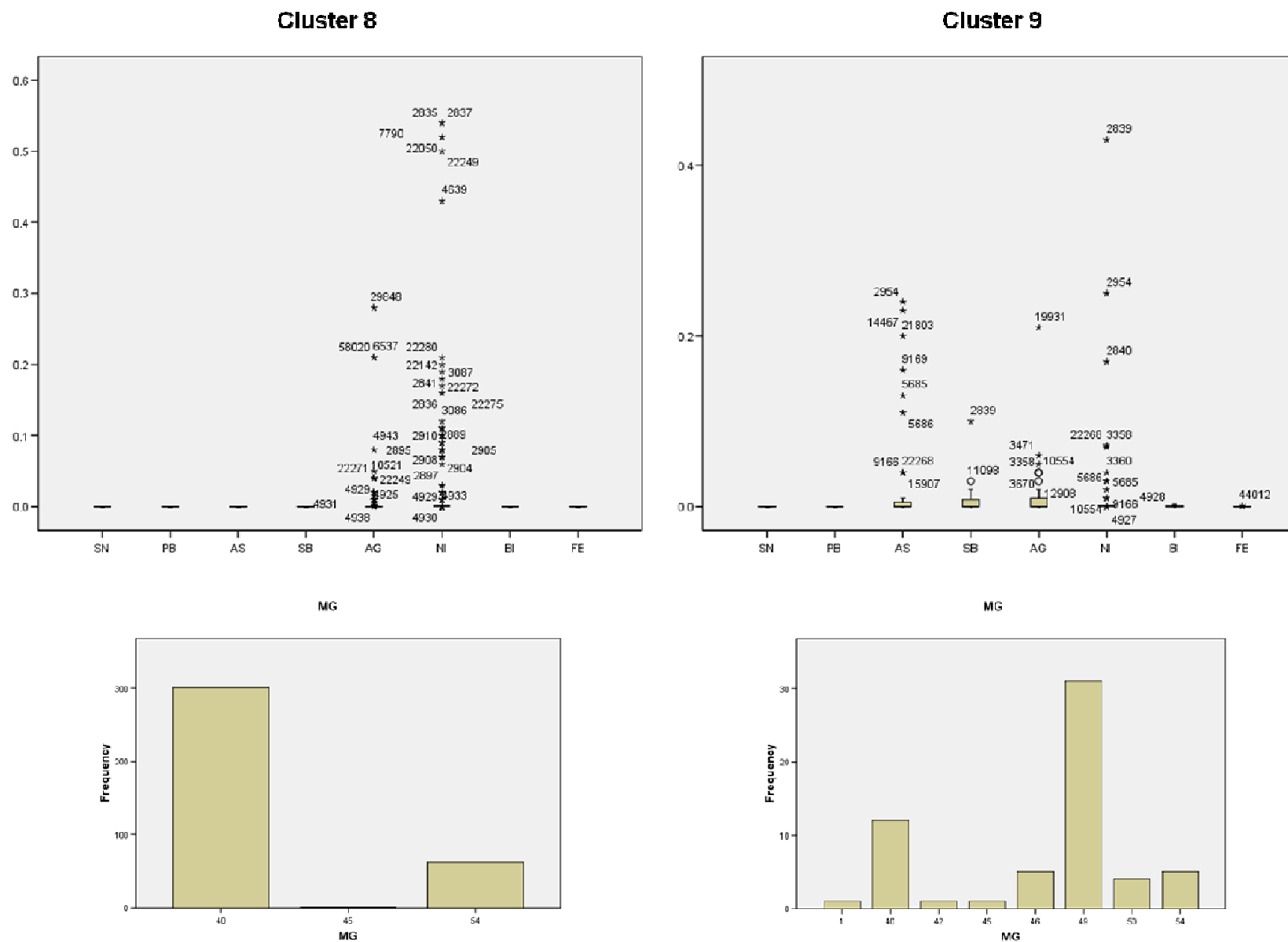
10) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 6



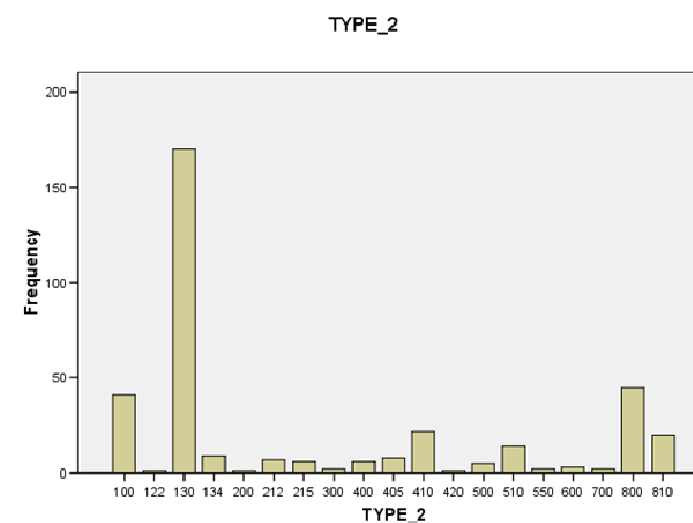
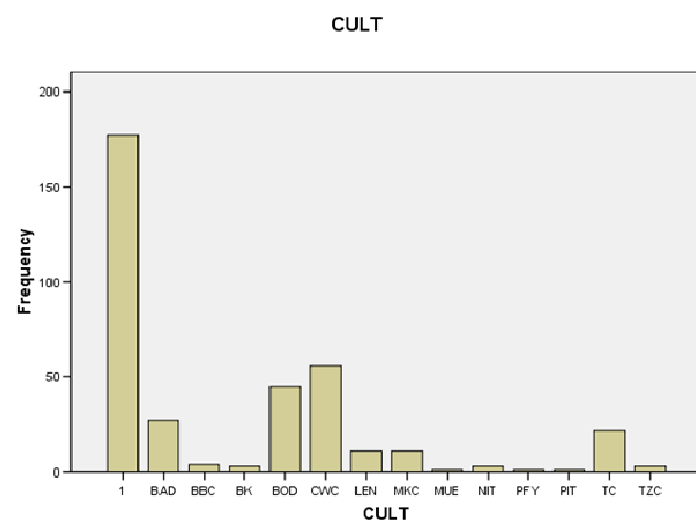
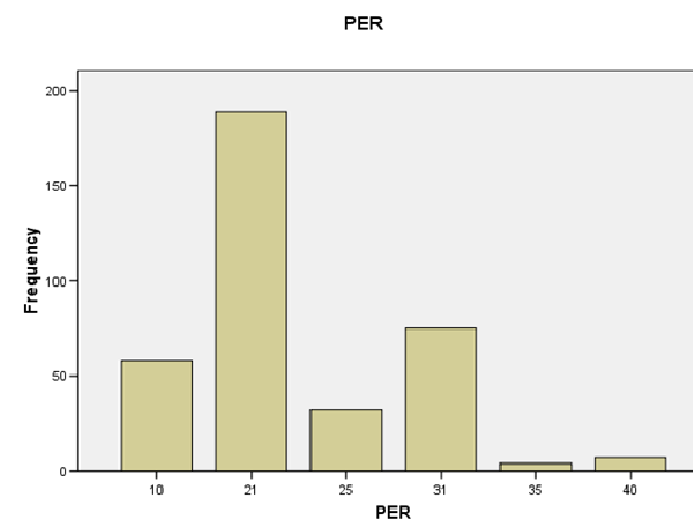
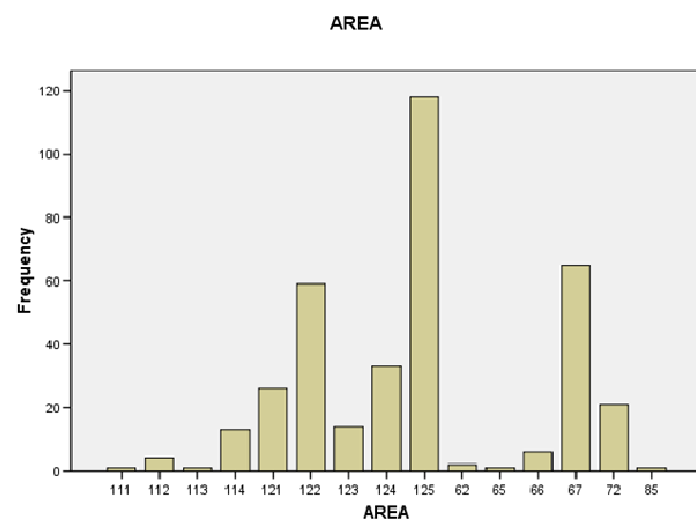
11) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 7



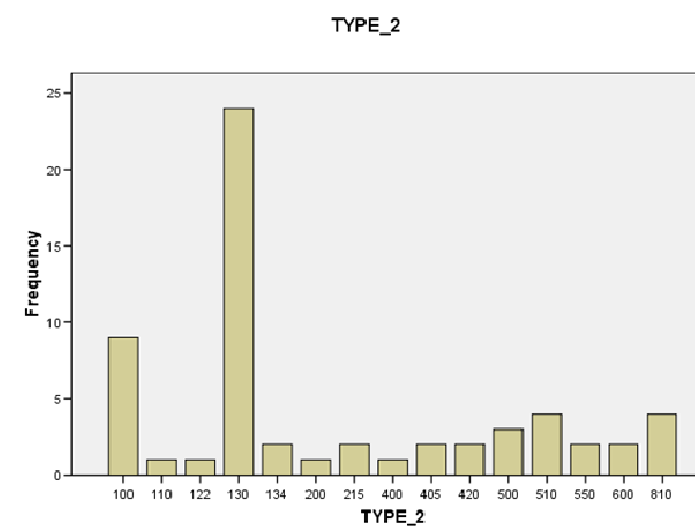
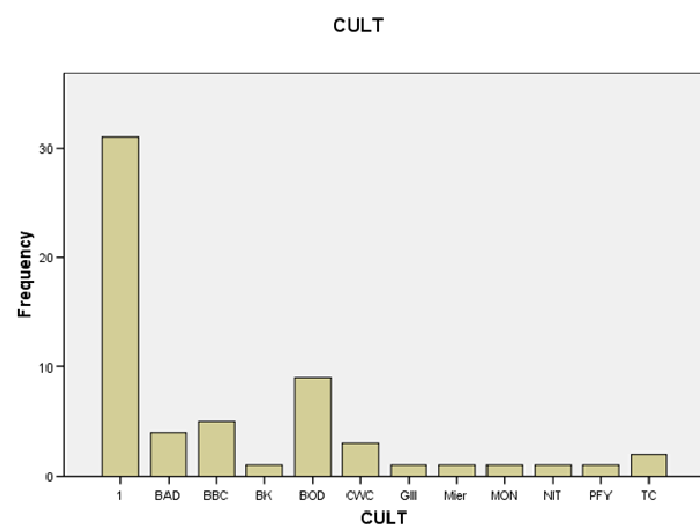
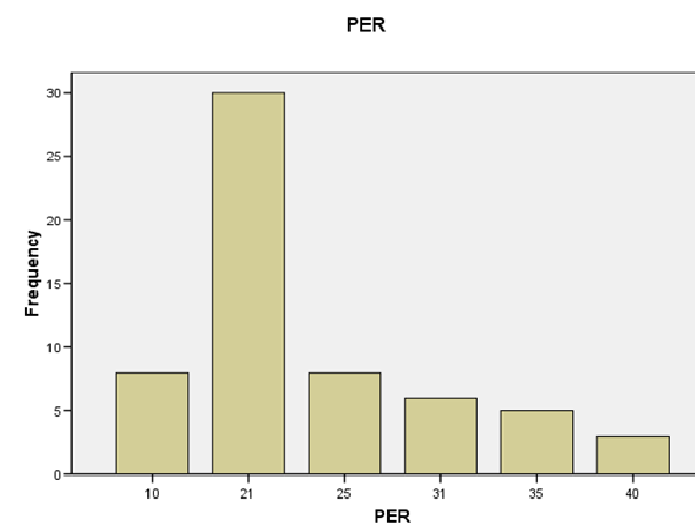
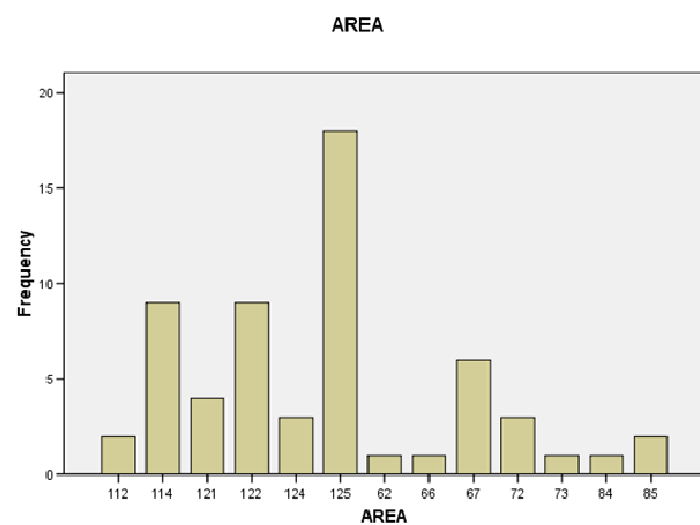
12) Scatter plot of PCA including the entire database displaying the Clusters 3 — 7 in Cluster Level II



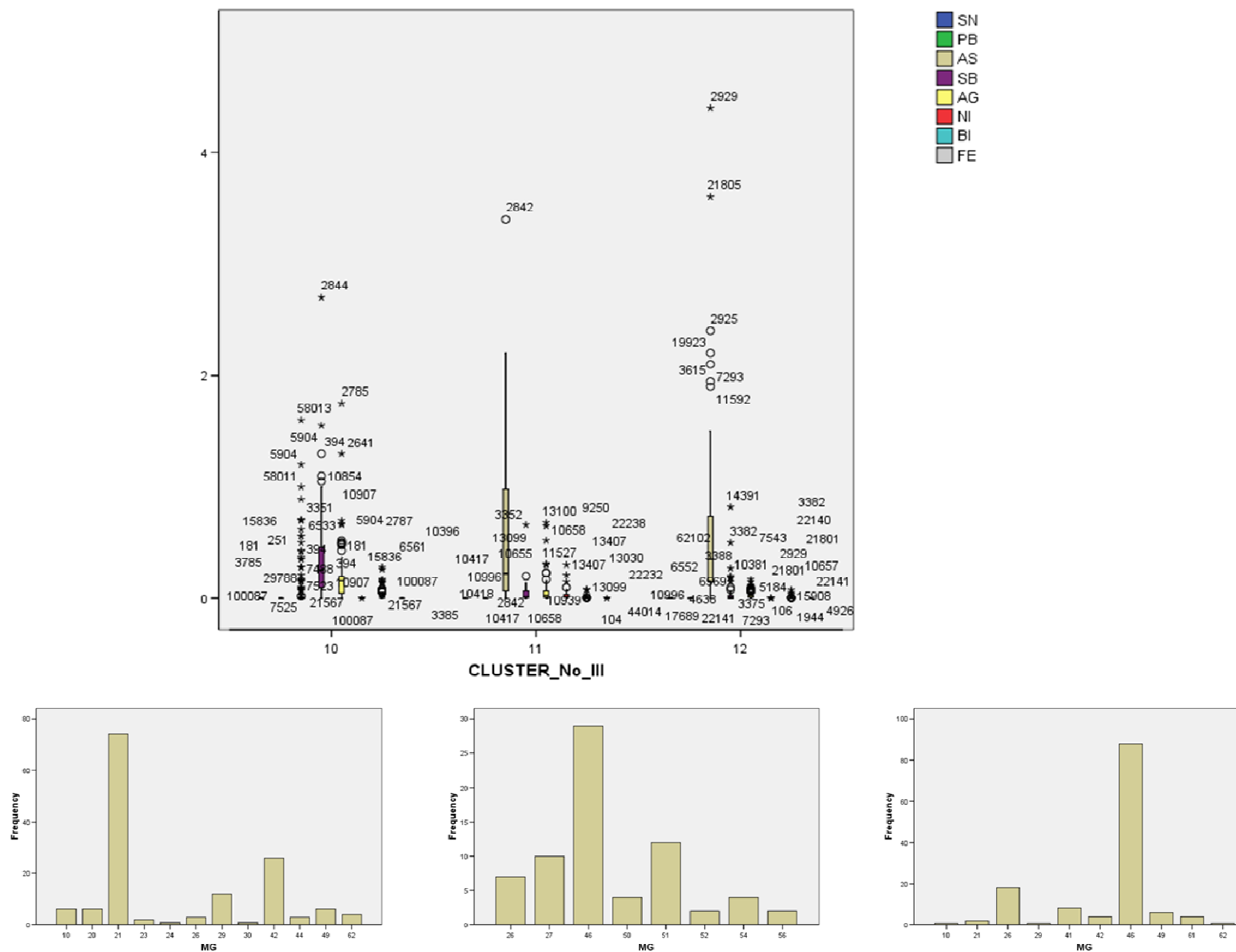
13) Comparison of Cluster 8 and 9 of Cluster Level III (Box plots, SAM-groups MG)



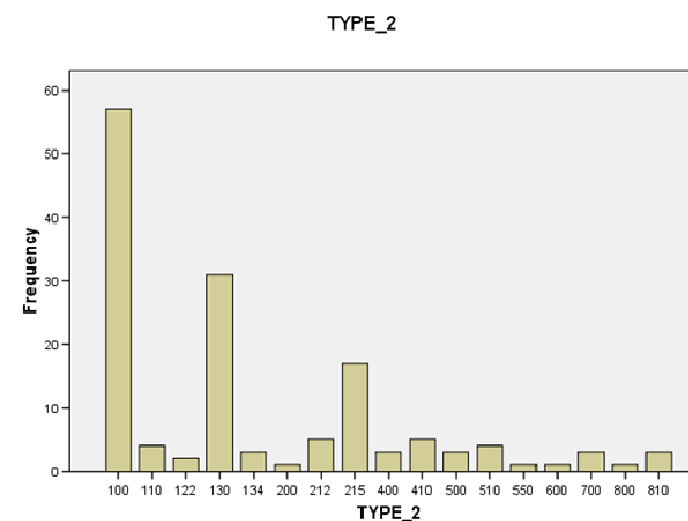
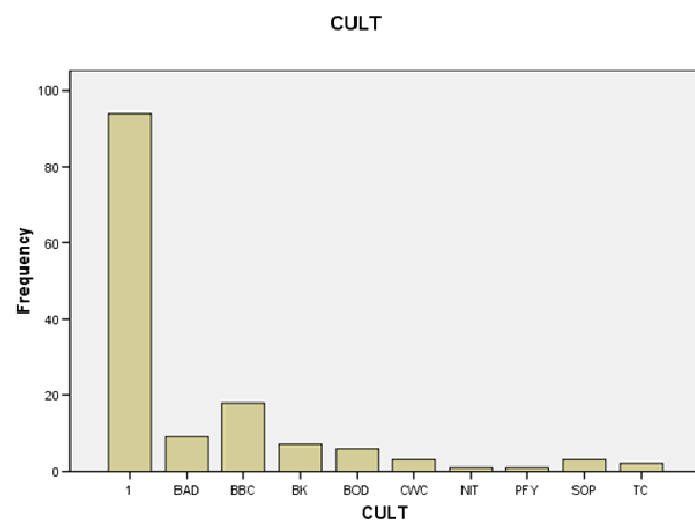
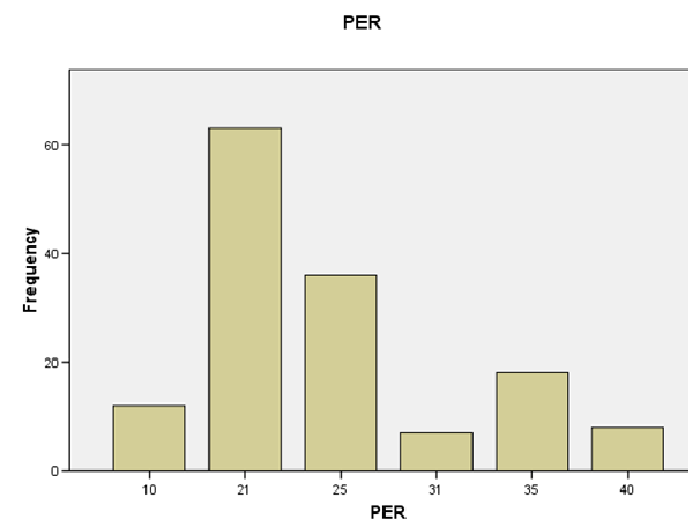
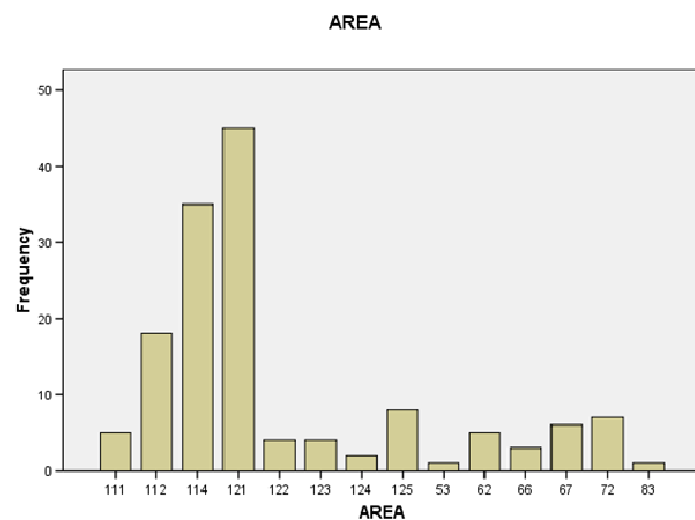
14) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 8



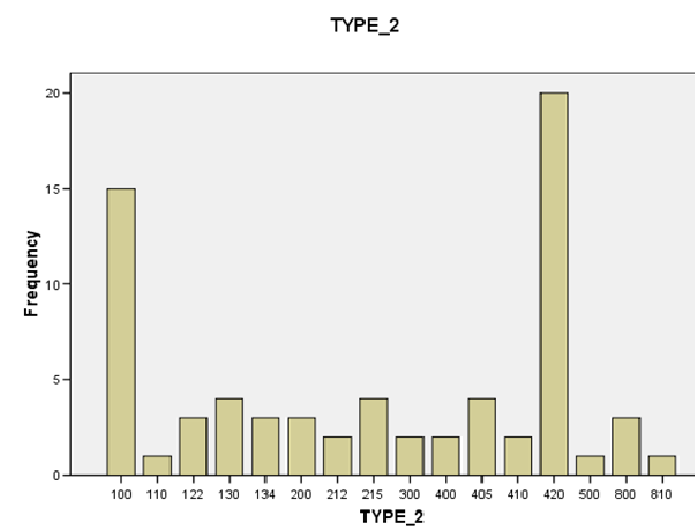
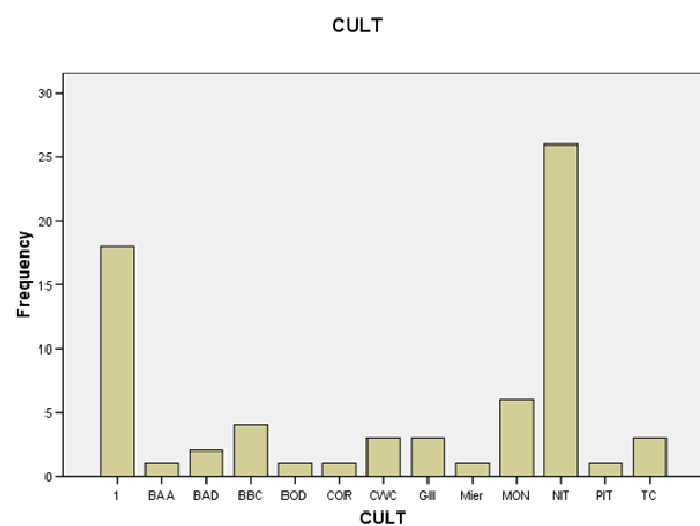
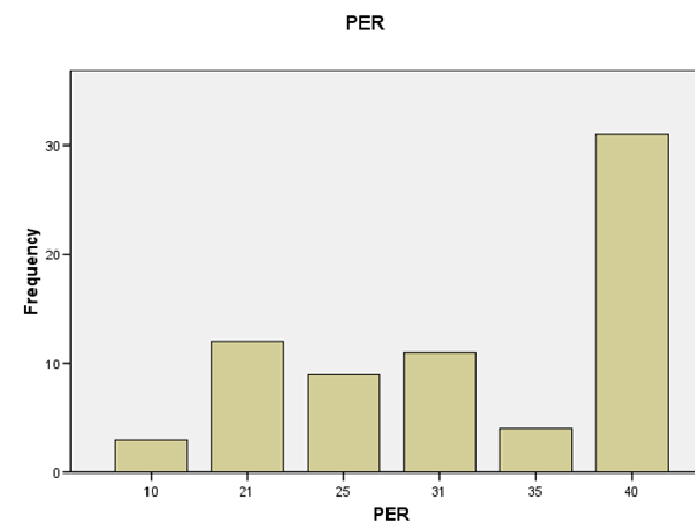
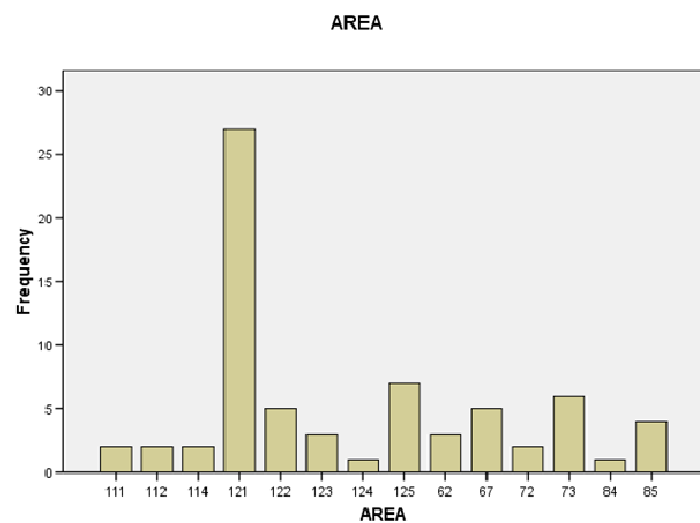
15) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 9



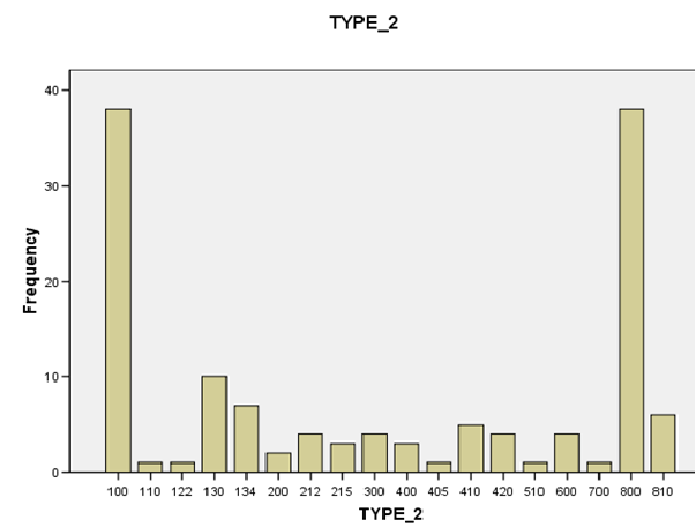
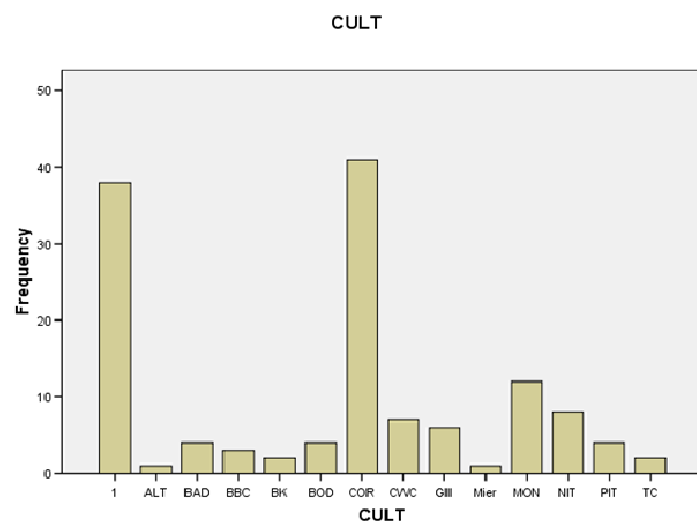
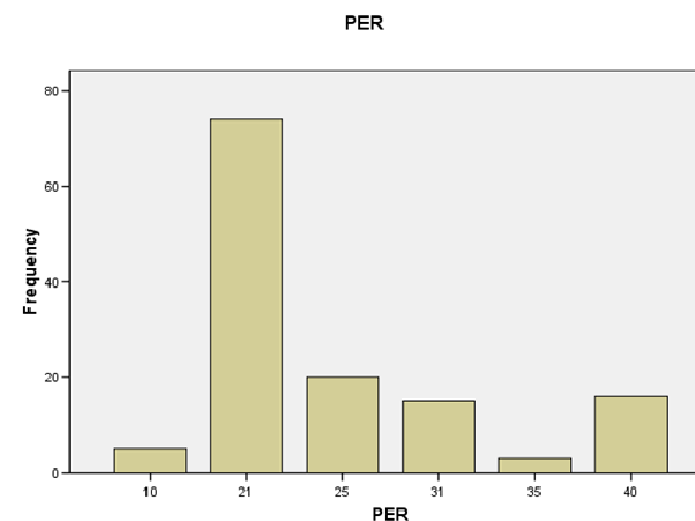
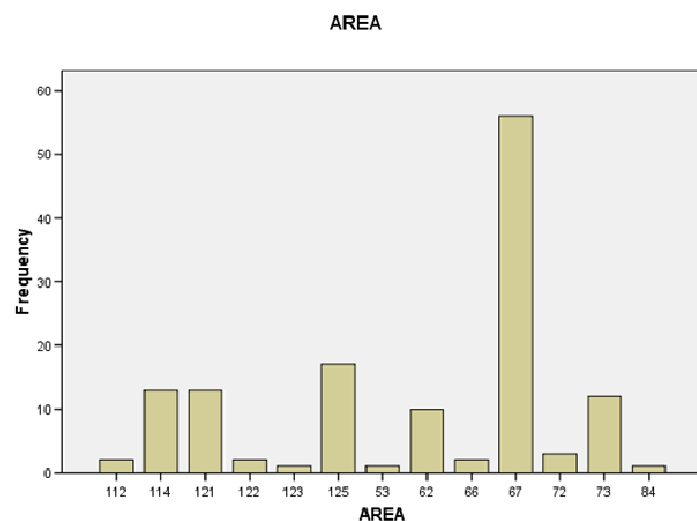
16) Box plots of the trace element compositions of the Cluster 10, 11 and 12 of Cluster Level III and the SAM-groups (MG)



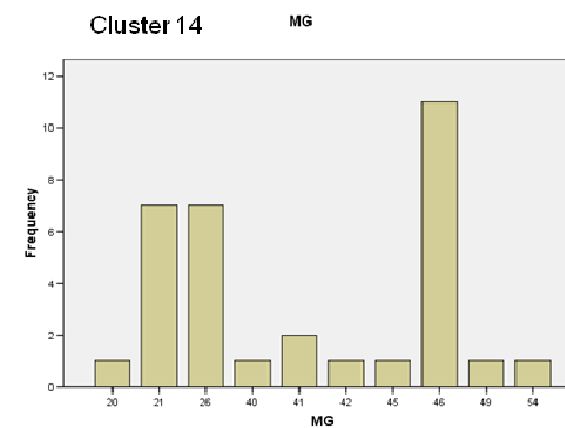
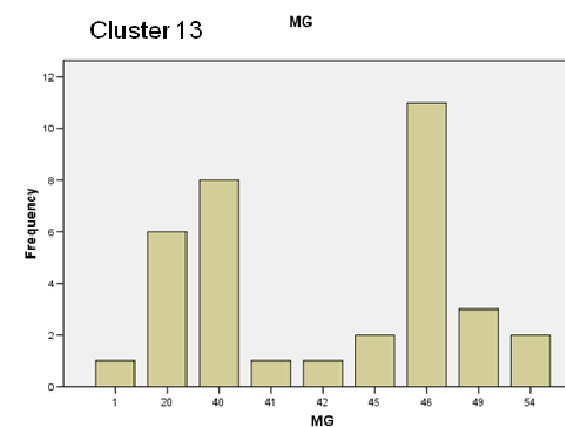
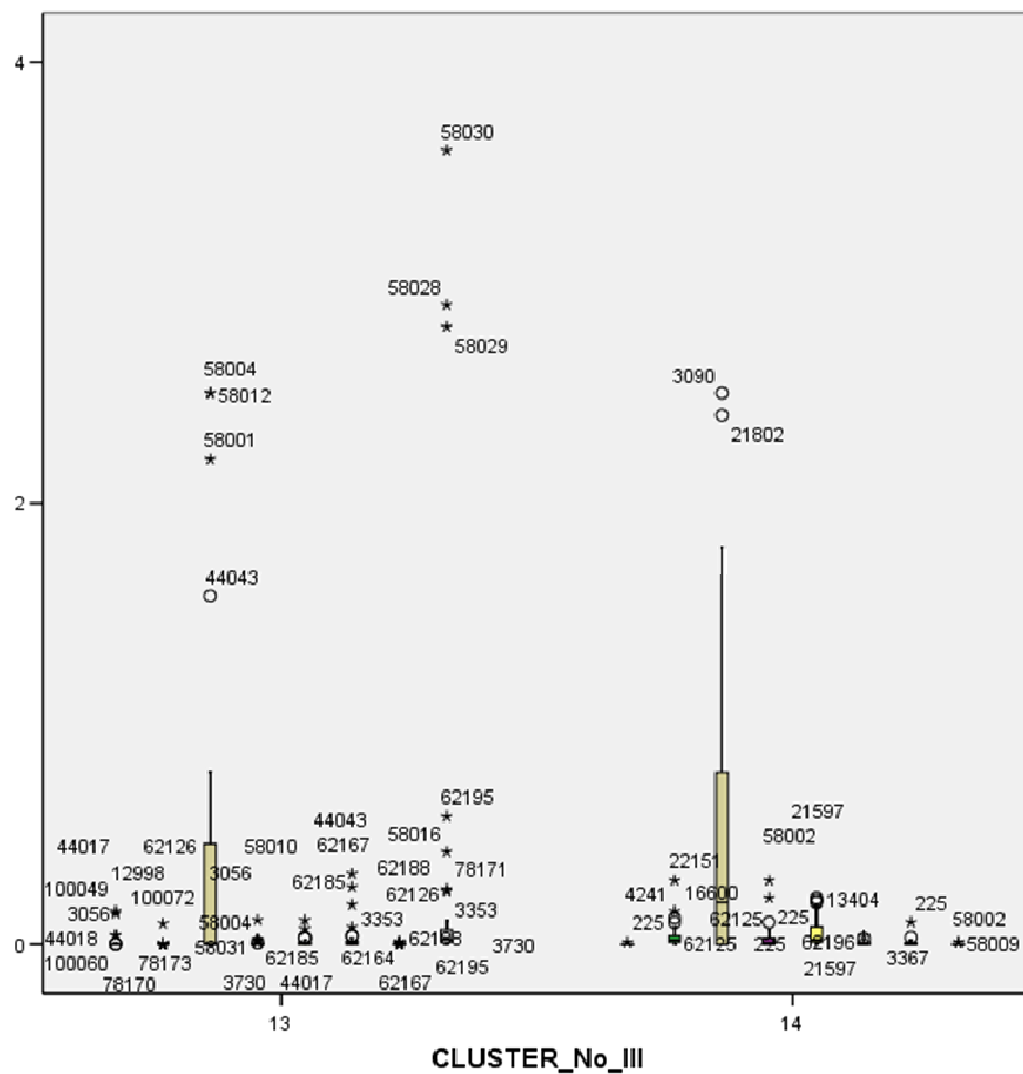
17) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 10



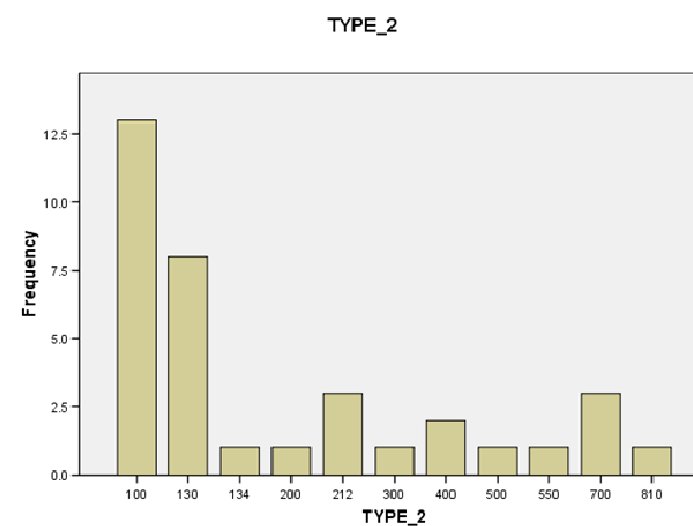
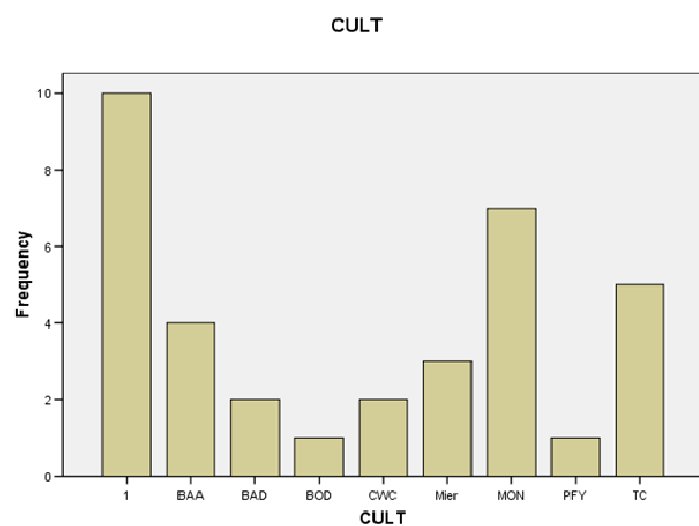
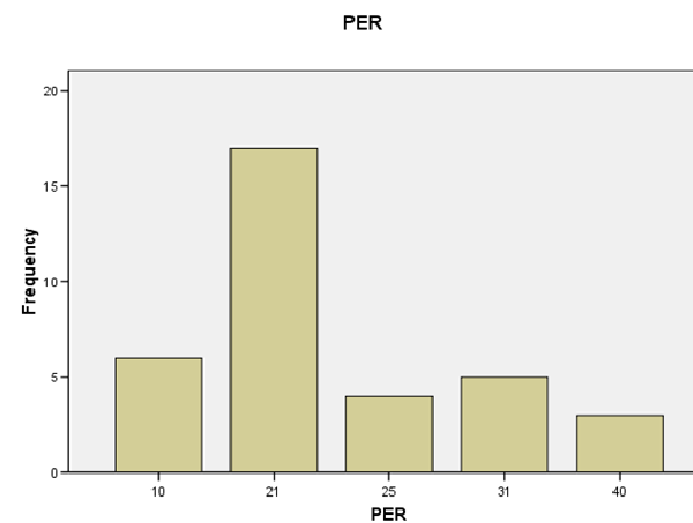
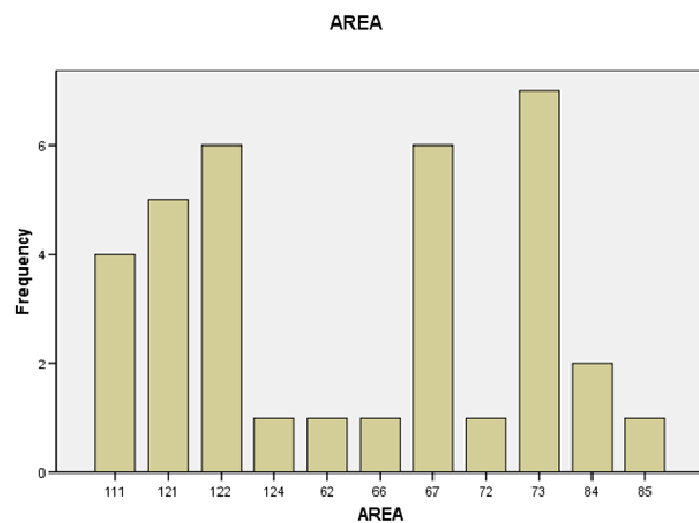
18) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 11



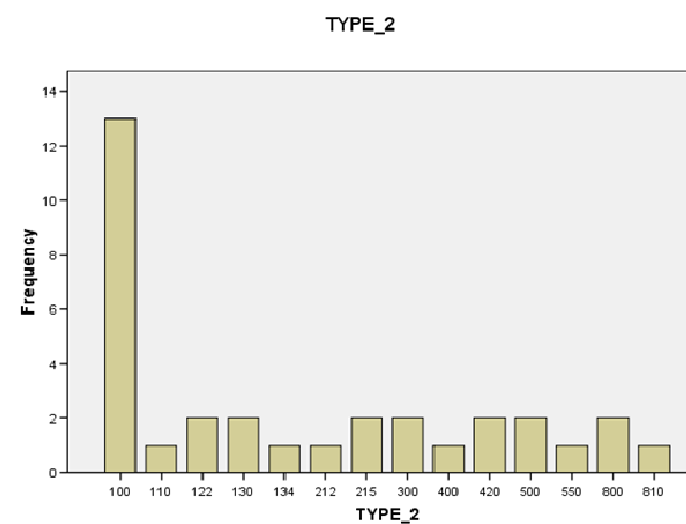
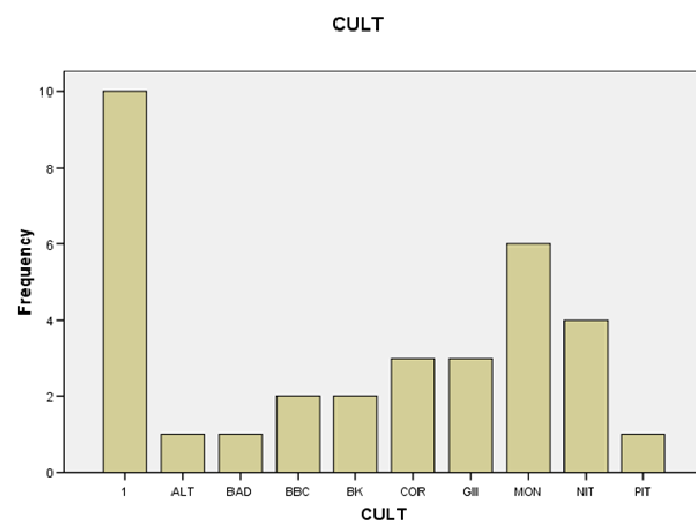
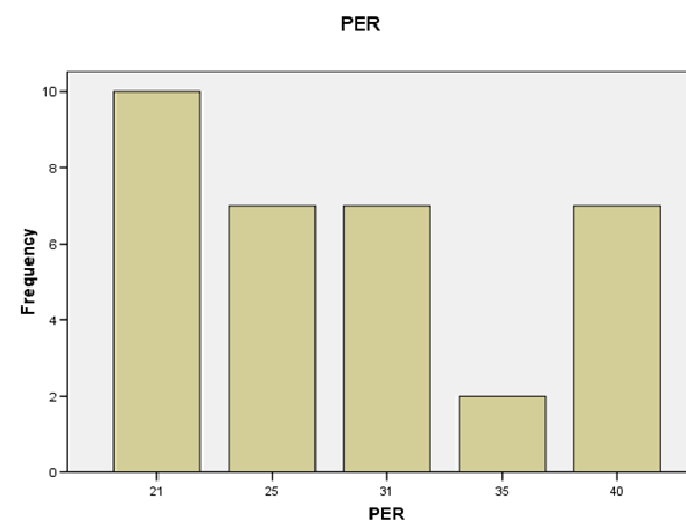
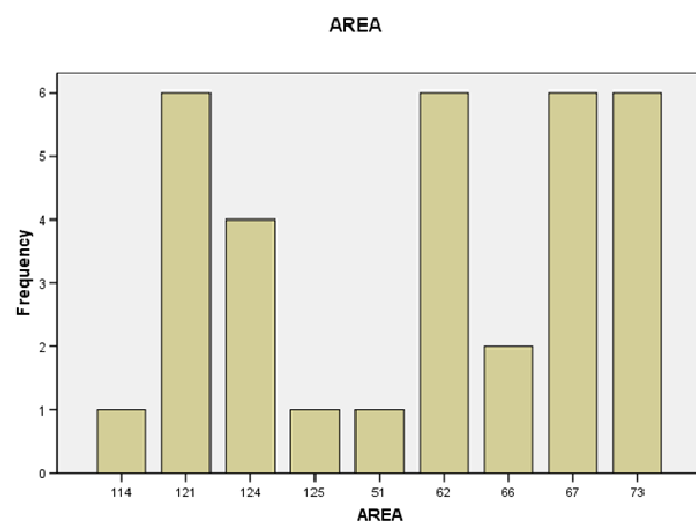
19) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 12



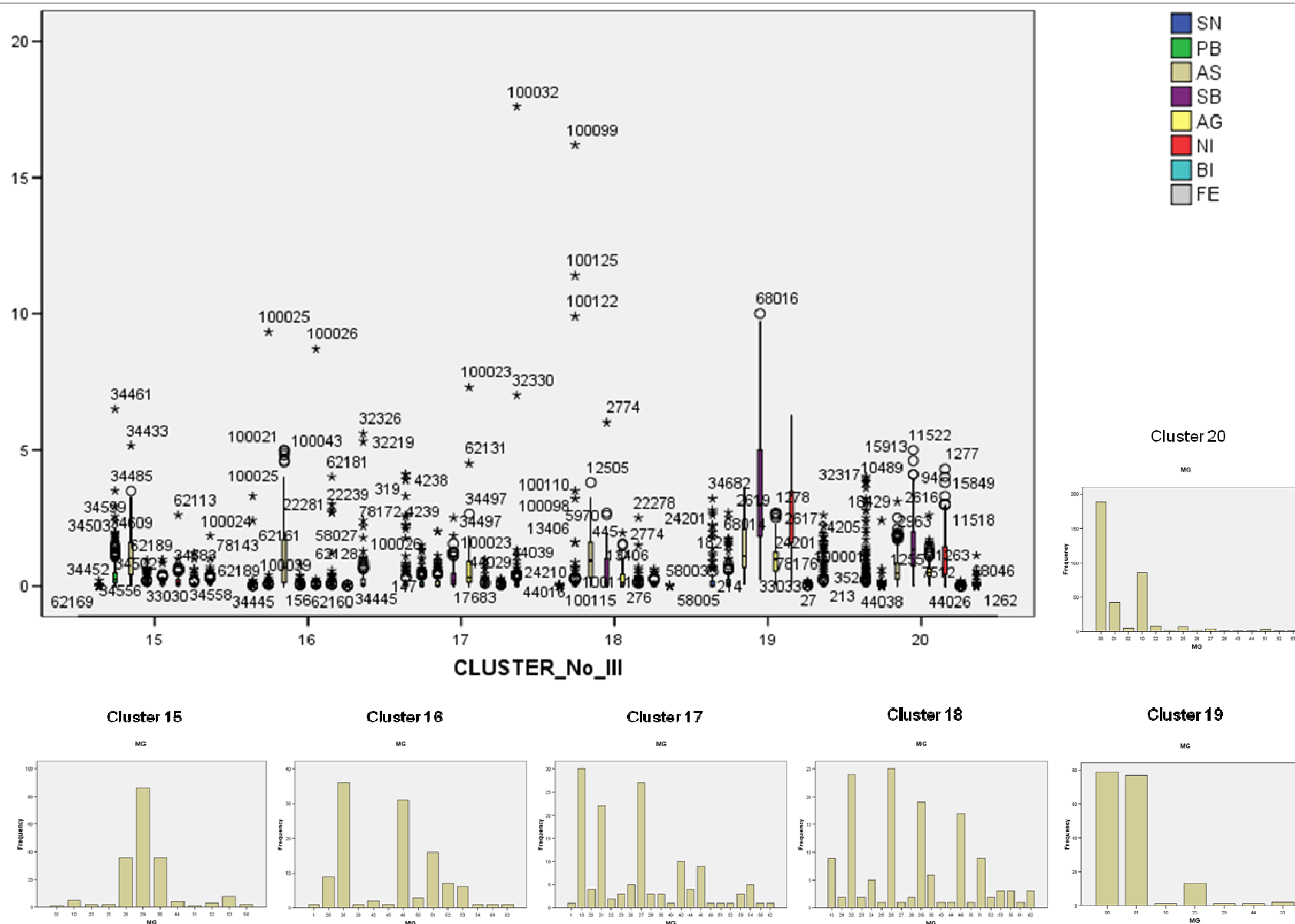
20) Box plots of the trace element compositions of the Cluster 13 and 14 of Cluster Level III and the SAM-groups (MG)



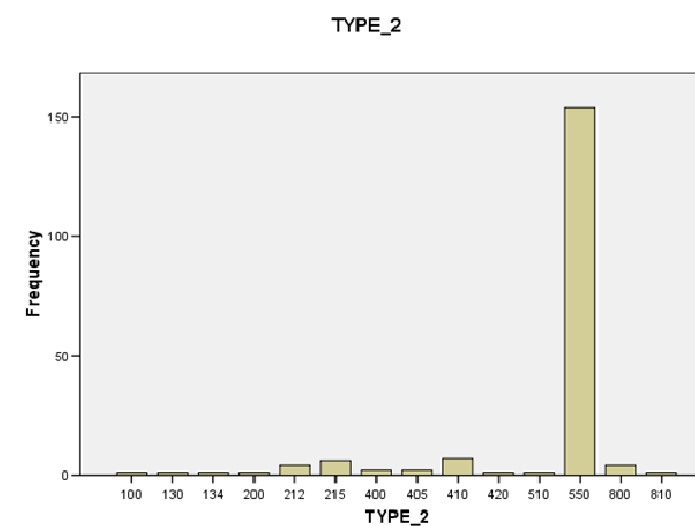
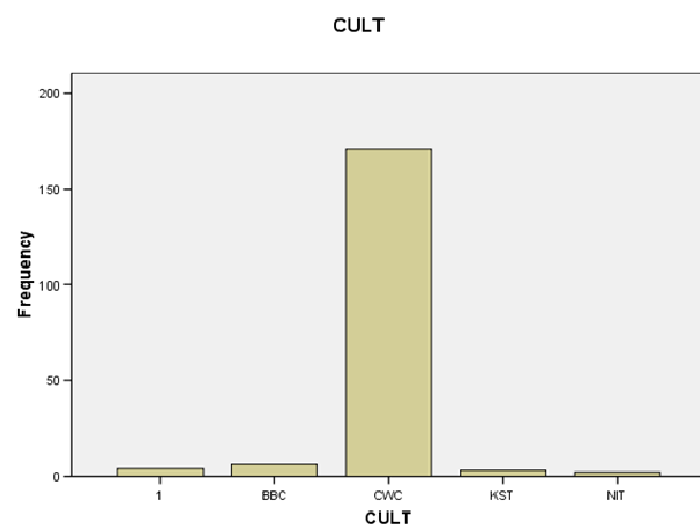
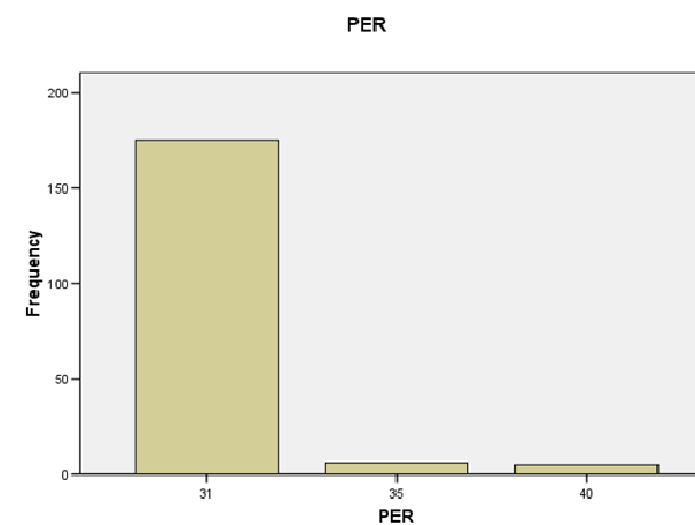
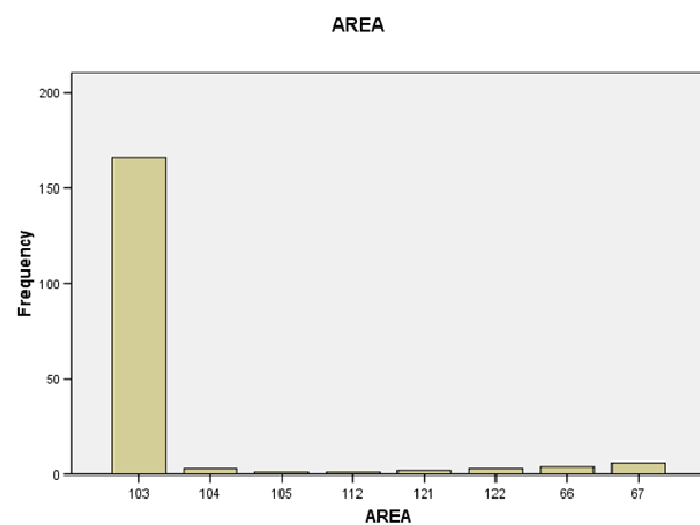
21) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 13



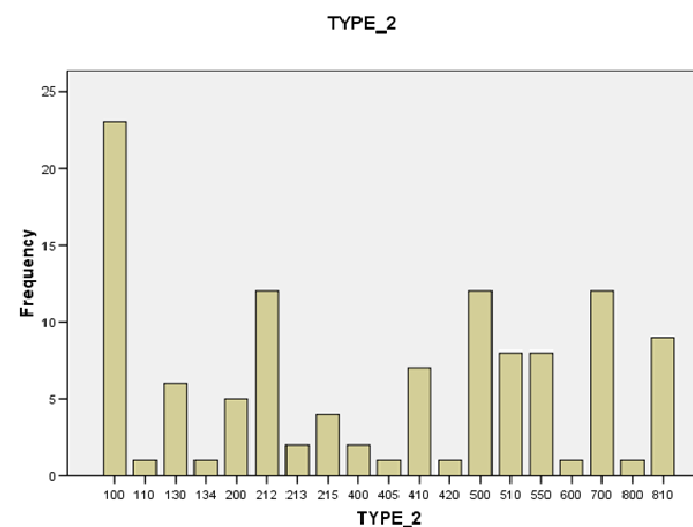
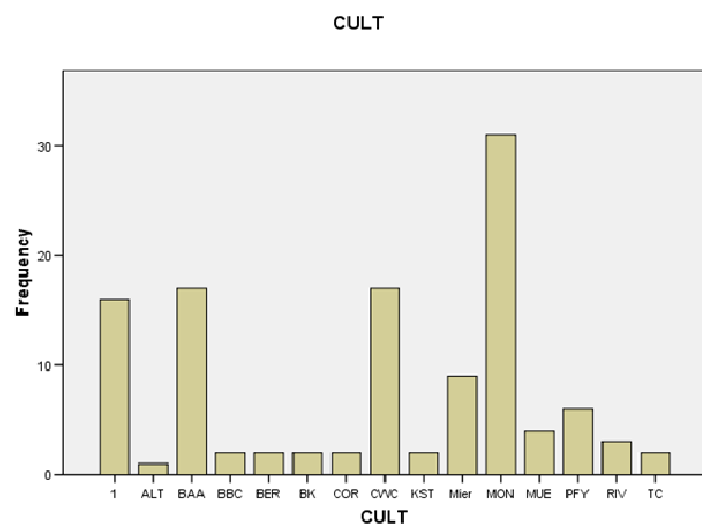
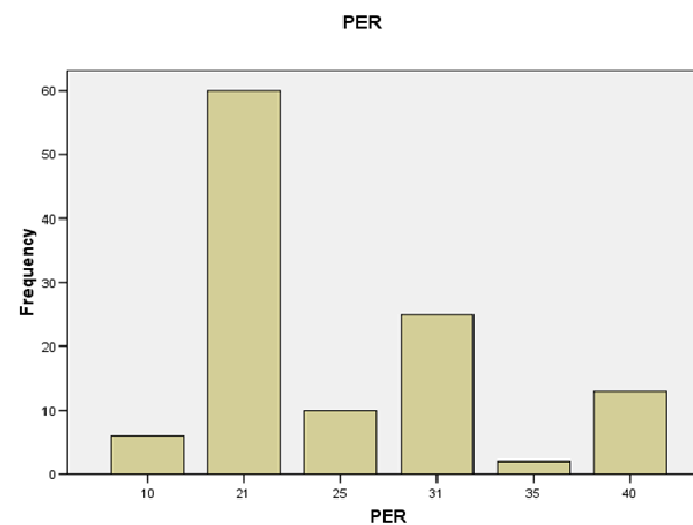
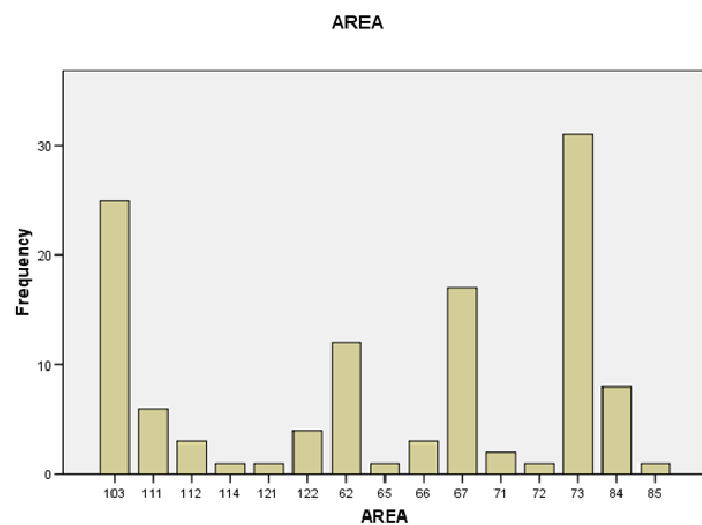
22) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 14



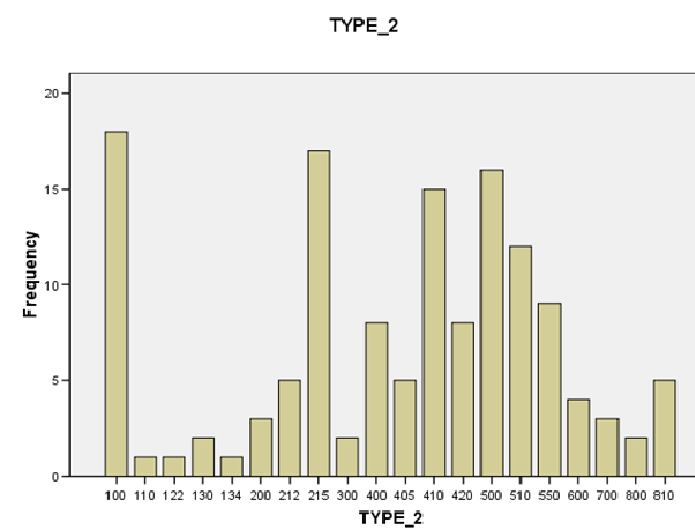
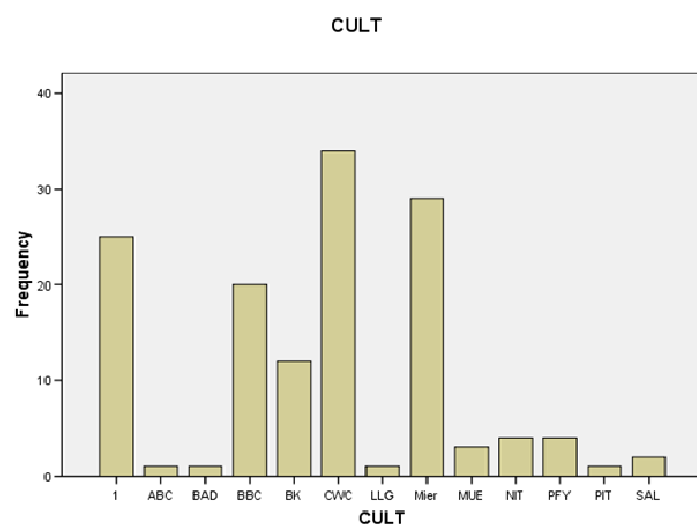
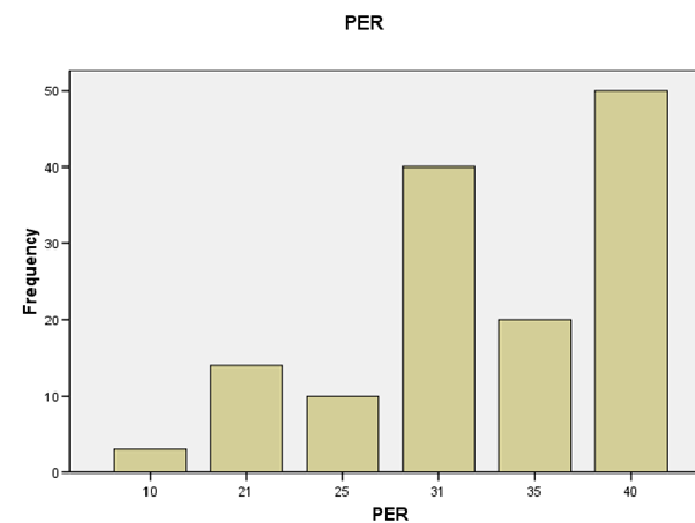
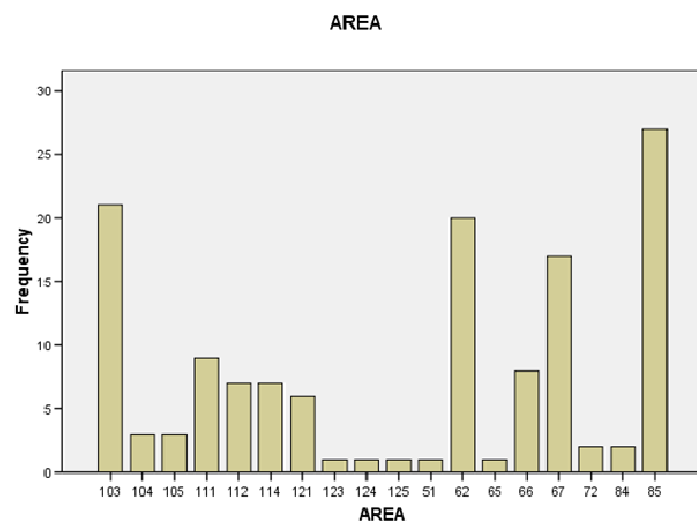
23) Box plots of the trace element compositions of the Cluster 15 —20 of Cluster Level III and the SAM-groups (MG)



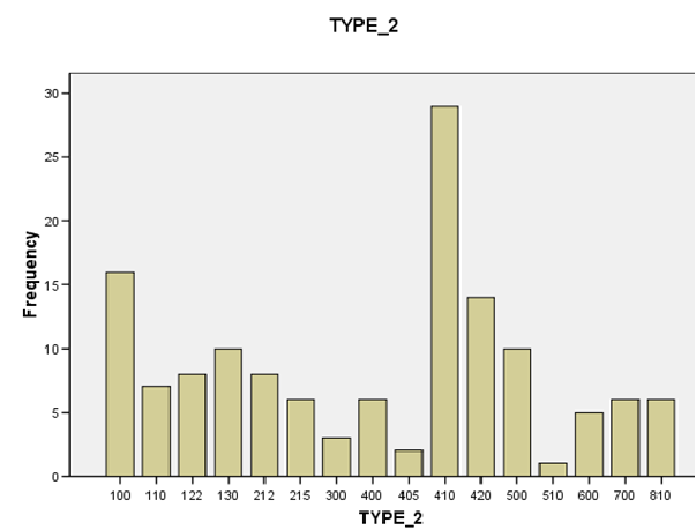
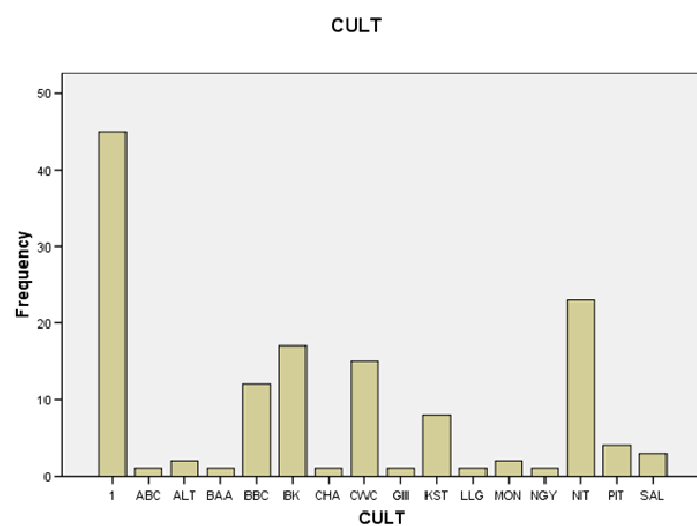
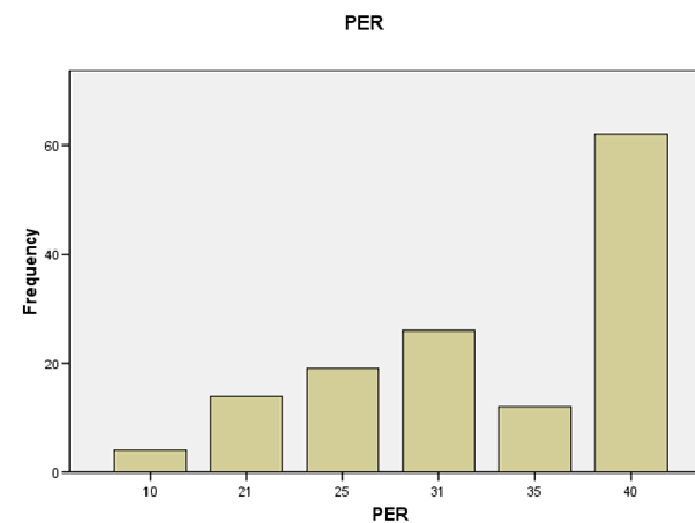
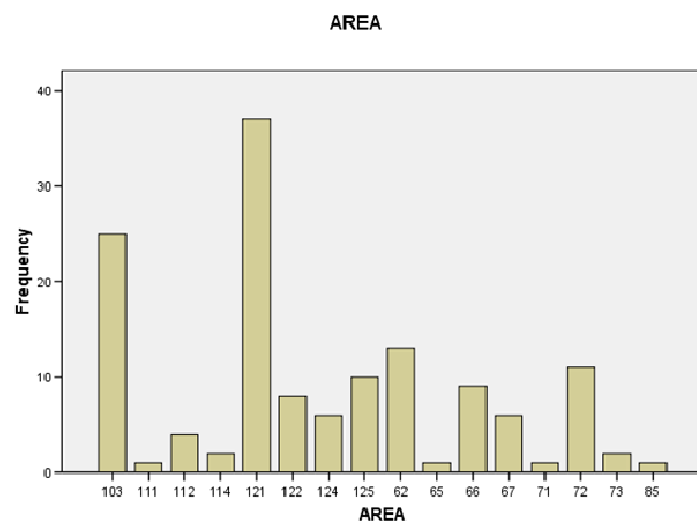
24) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 15



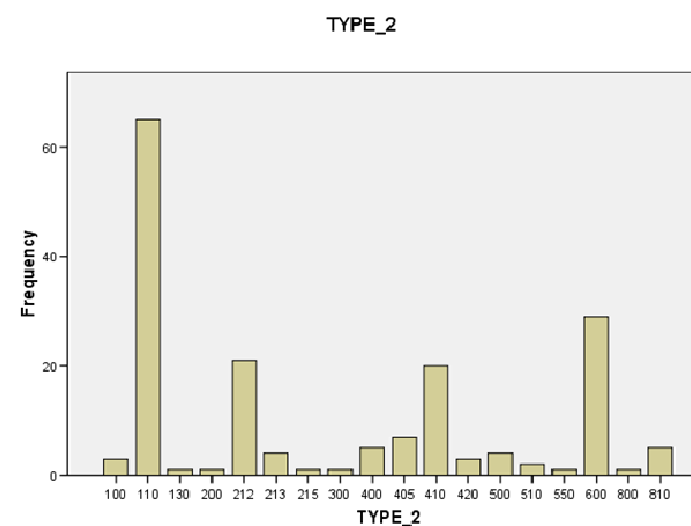
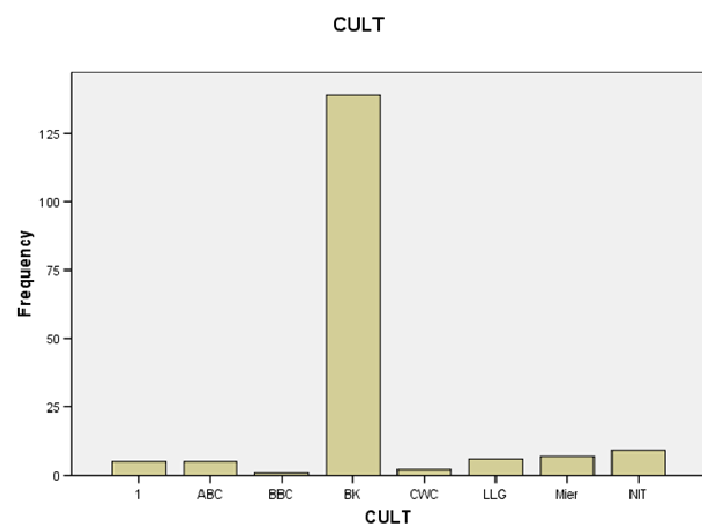
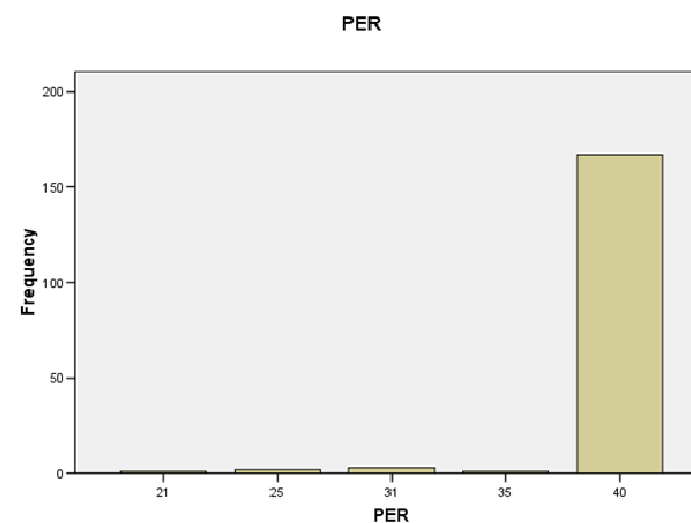
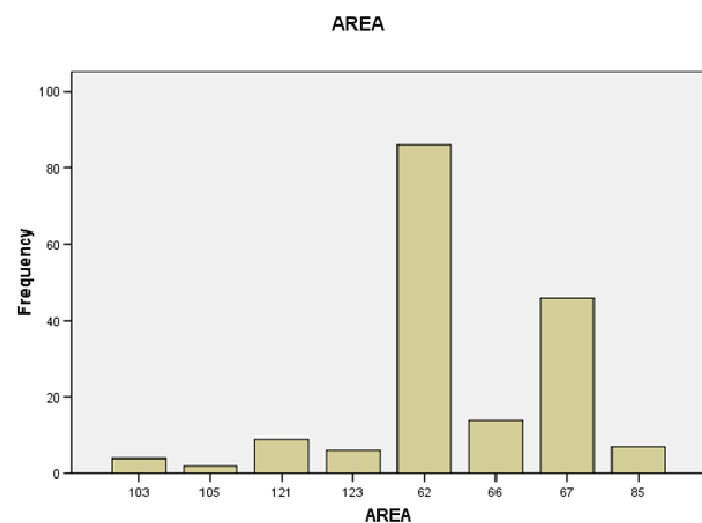
25) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 16



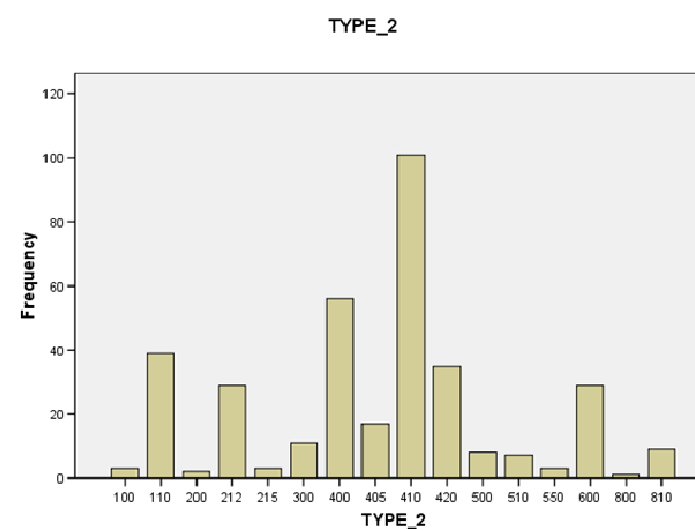
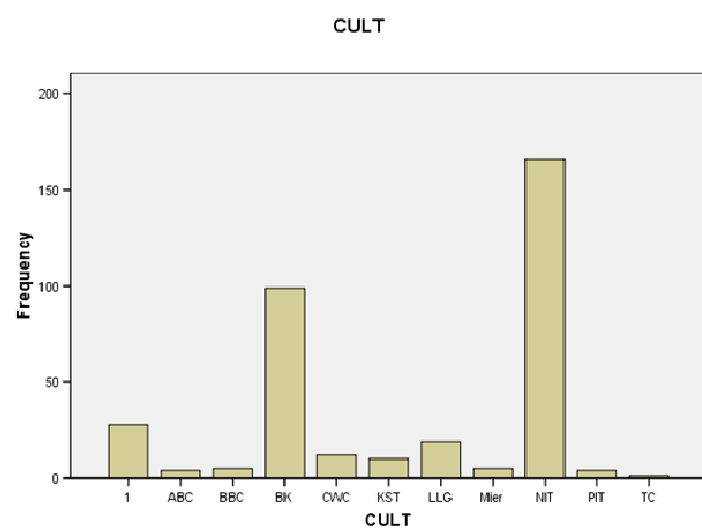
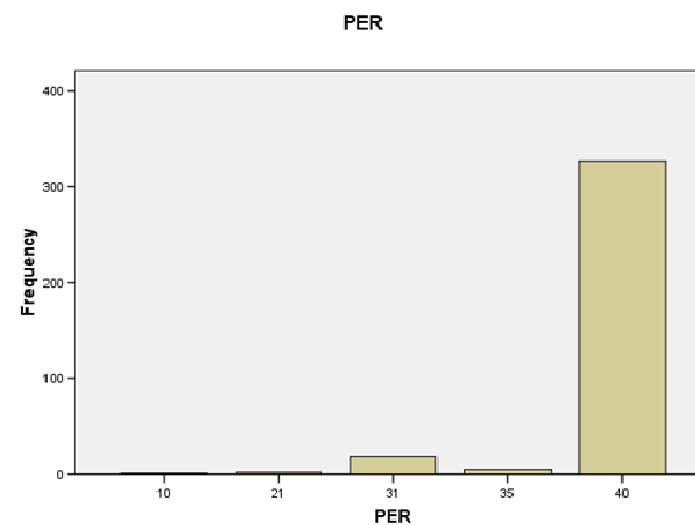
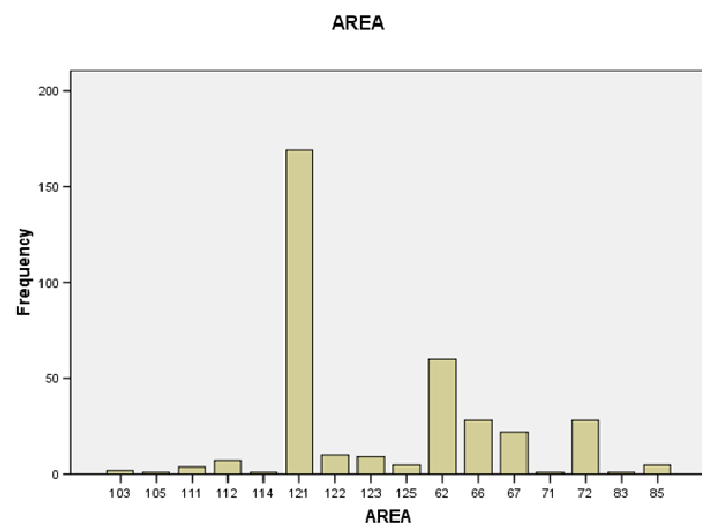
26) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 17



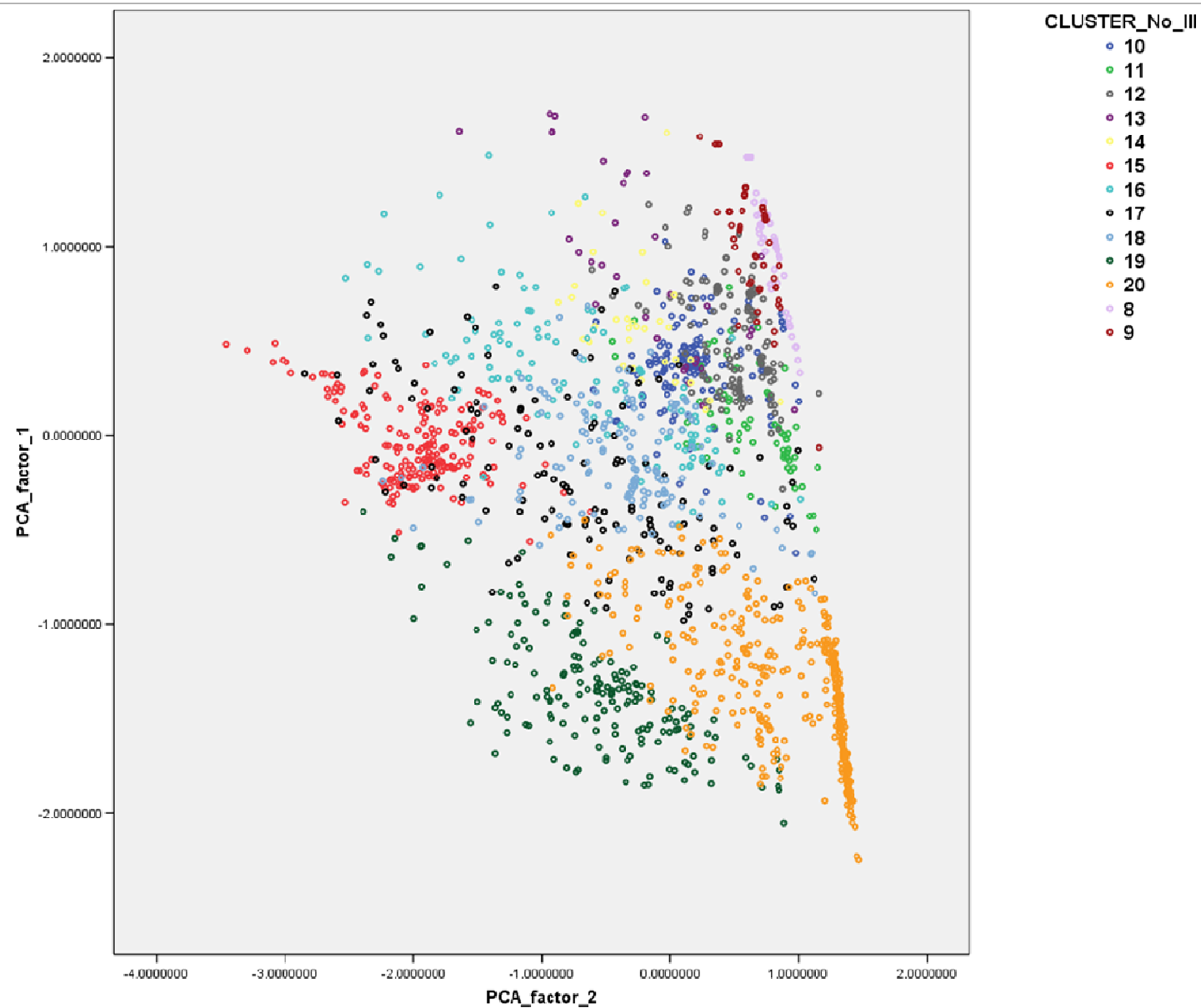
27) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 18



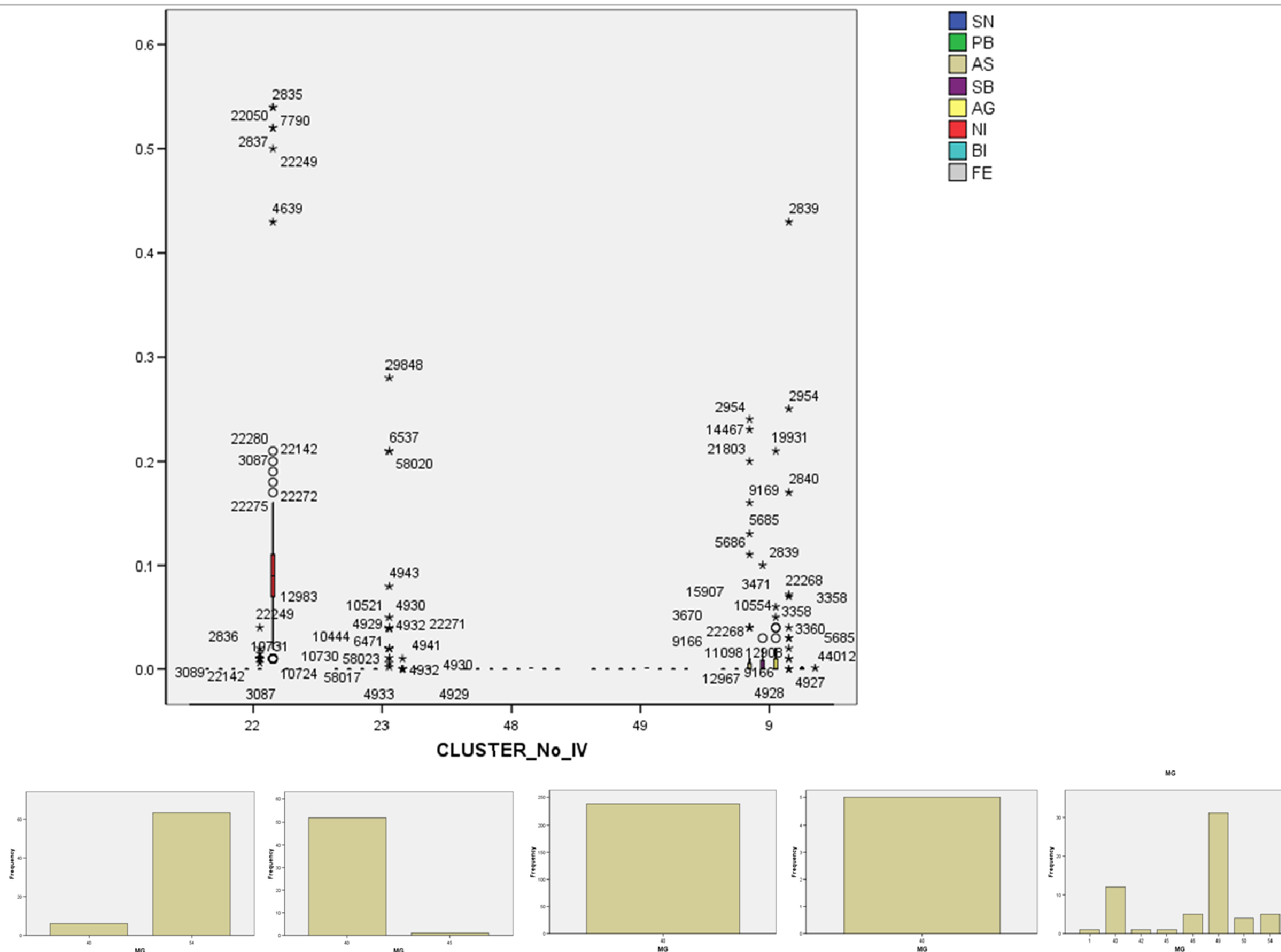
28) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 19



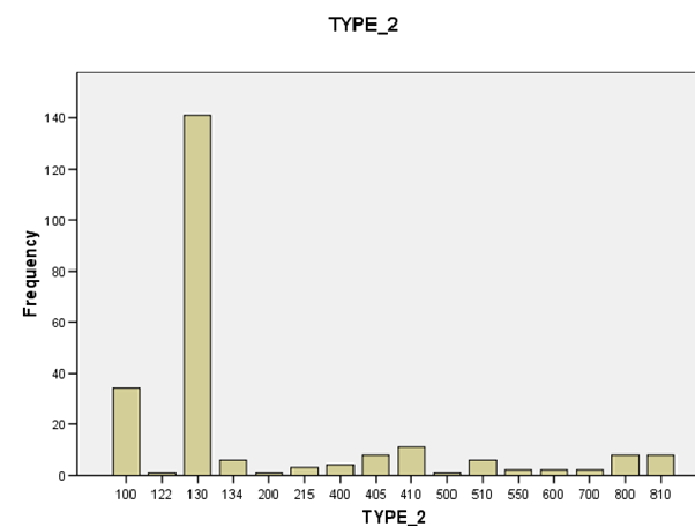
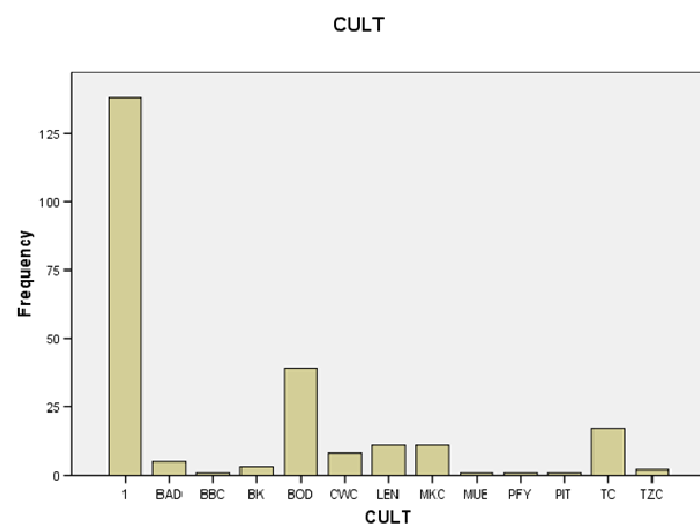
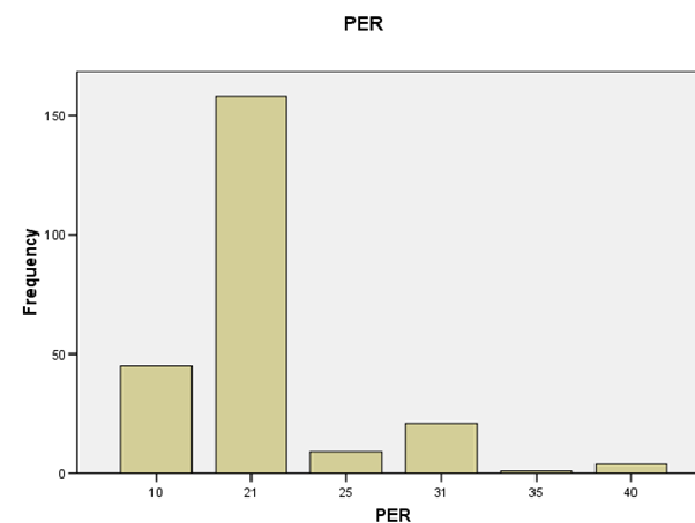
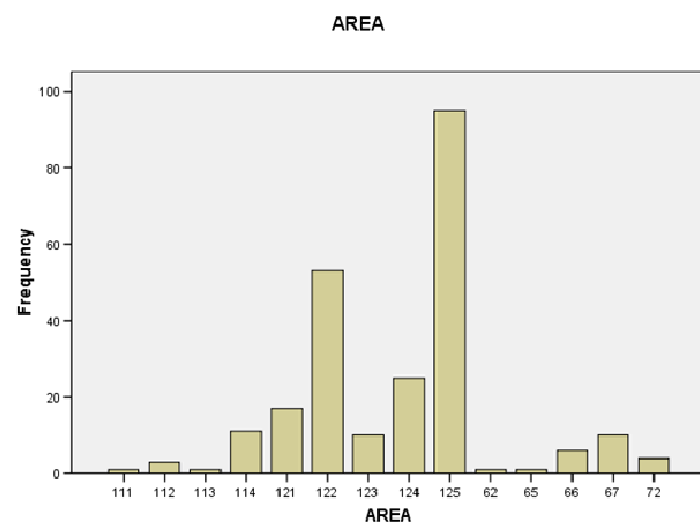
29) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 20



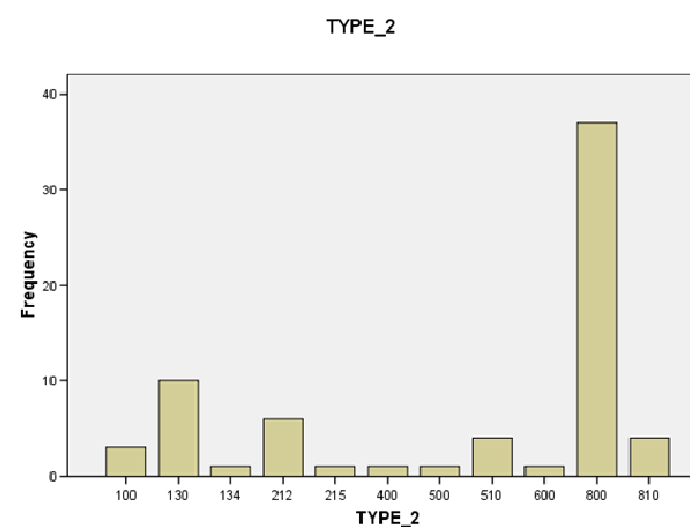
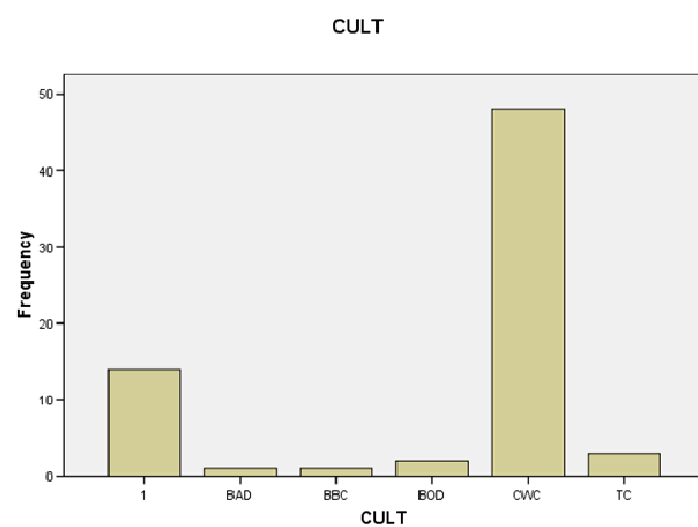
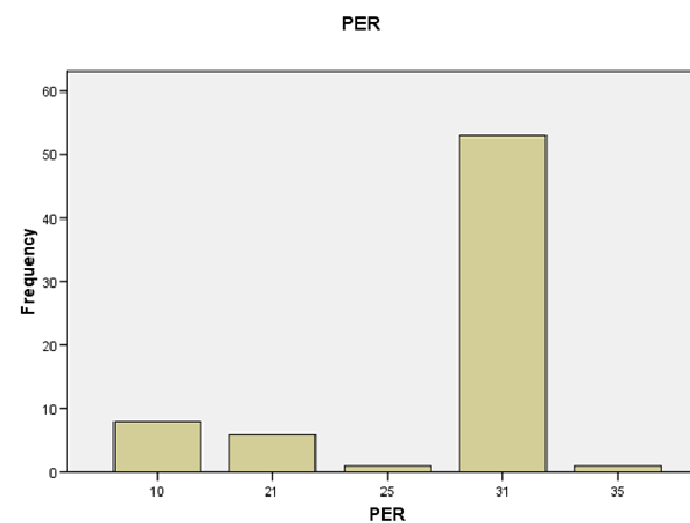
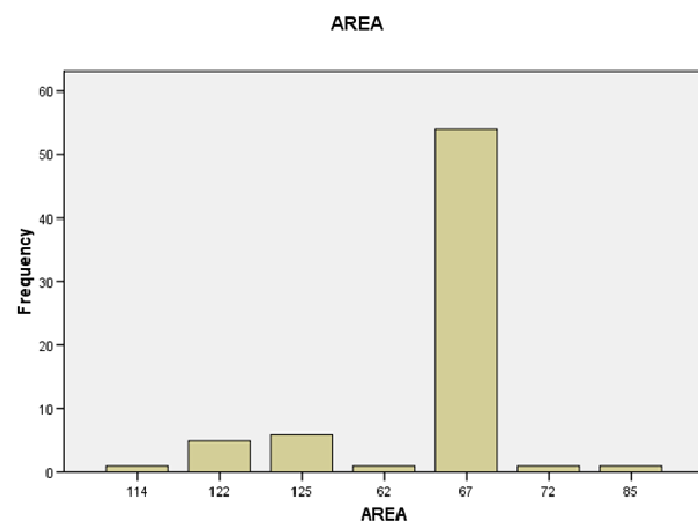
30) Scatter plot of PCA including the entire database displaying the Clusters 8 — 20 in ClusterLevel III



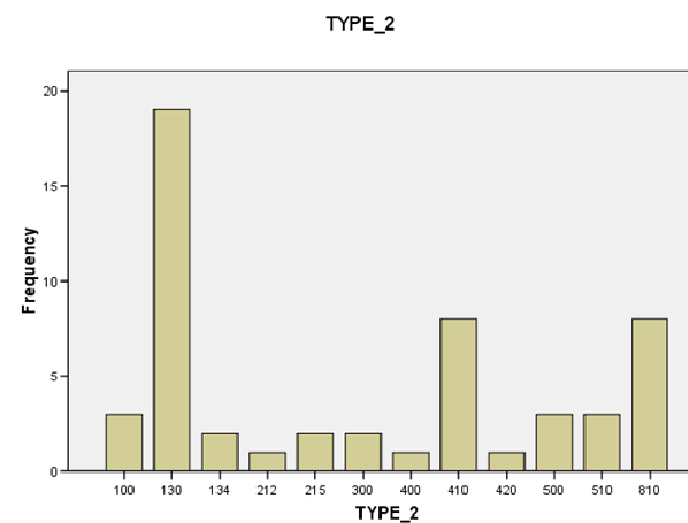
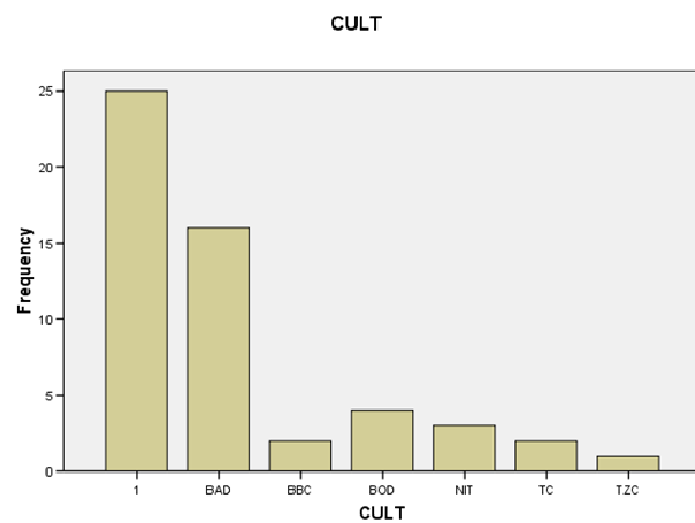
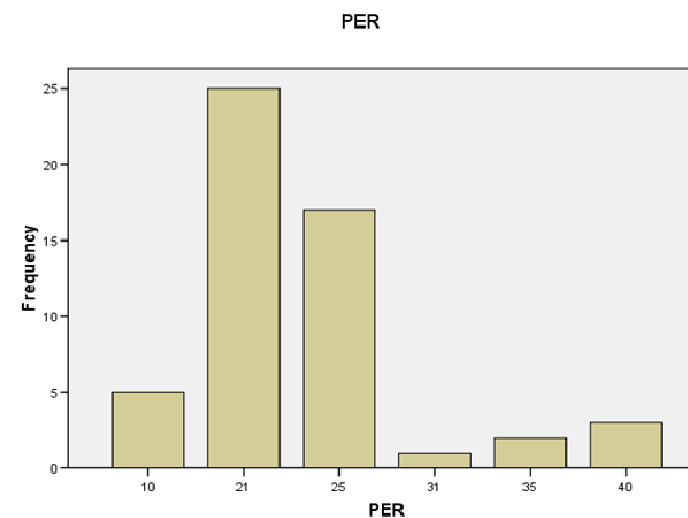
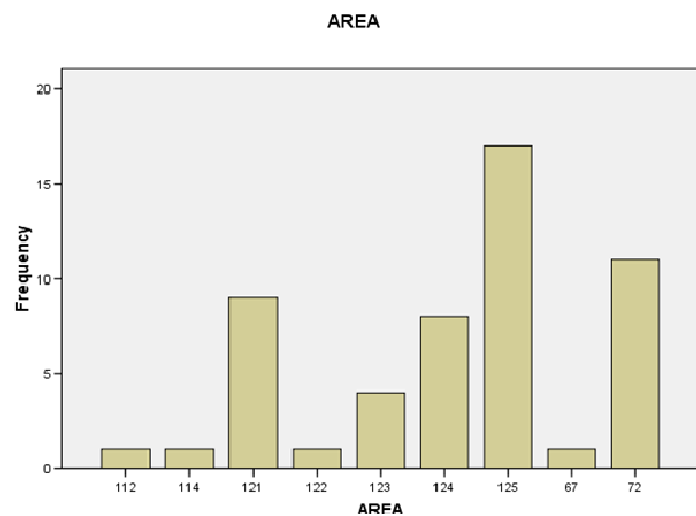
31) Box plots of the trace element compositions of the Cluster 22, 23, 48, 49 and 9 of Cluster Level IV and the SAM-groups (MG)



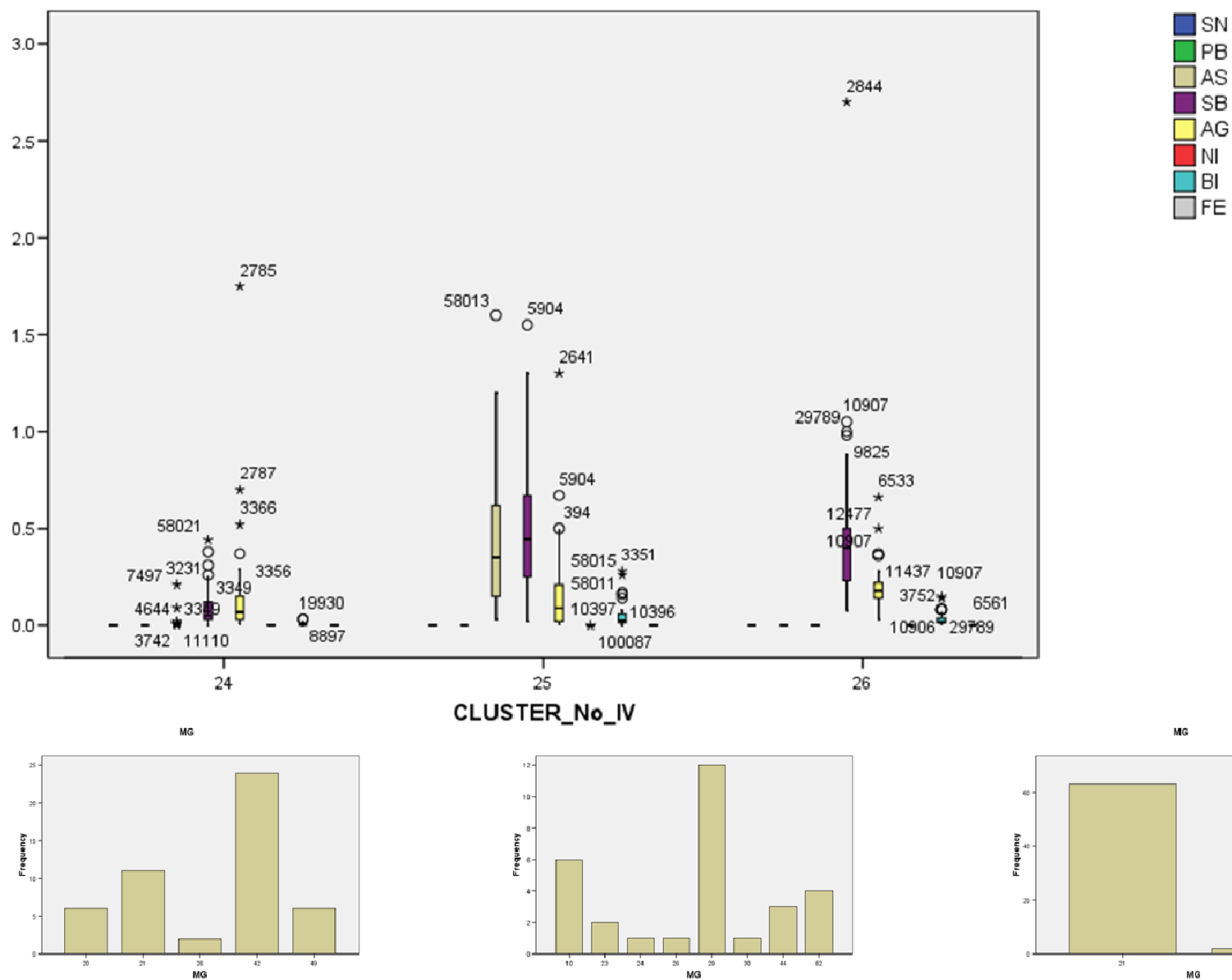
32) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 48



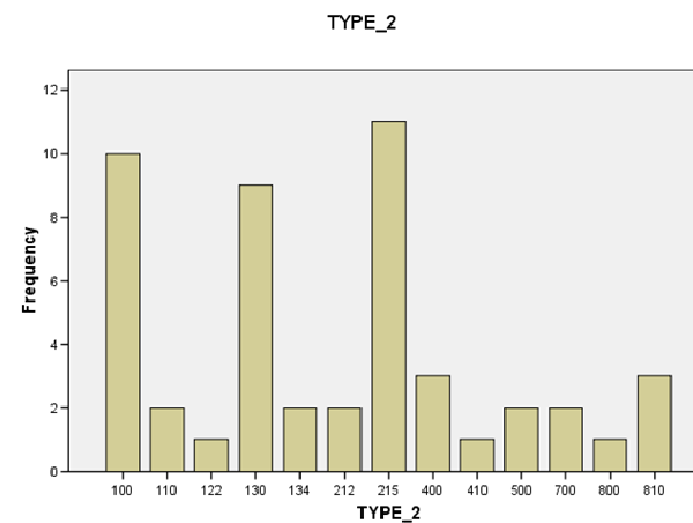
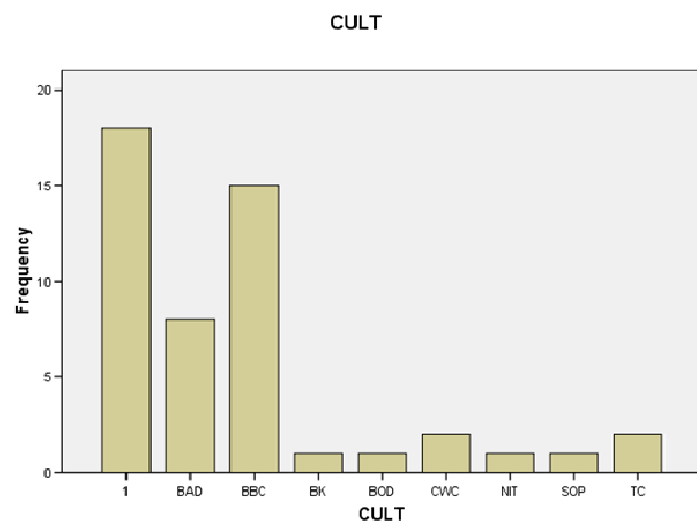
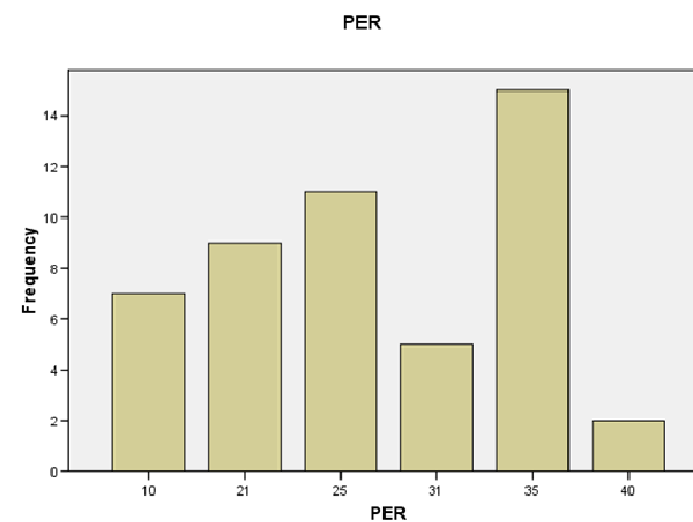
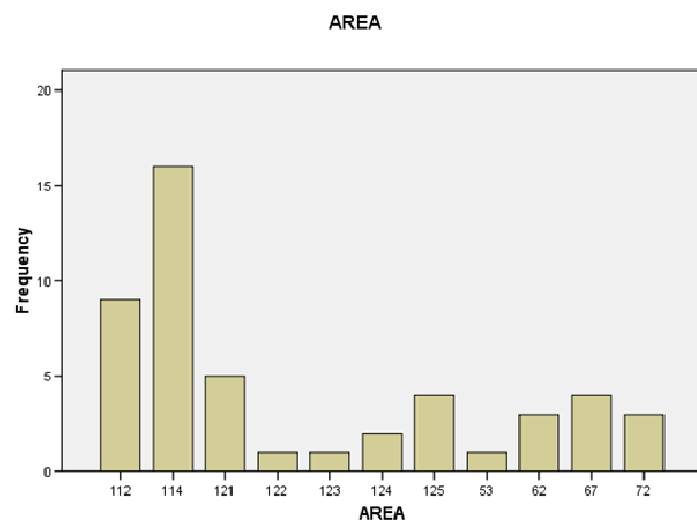
33) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 22



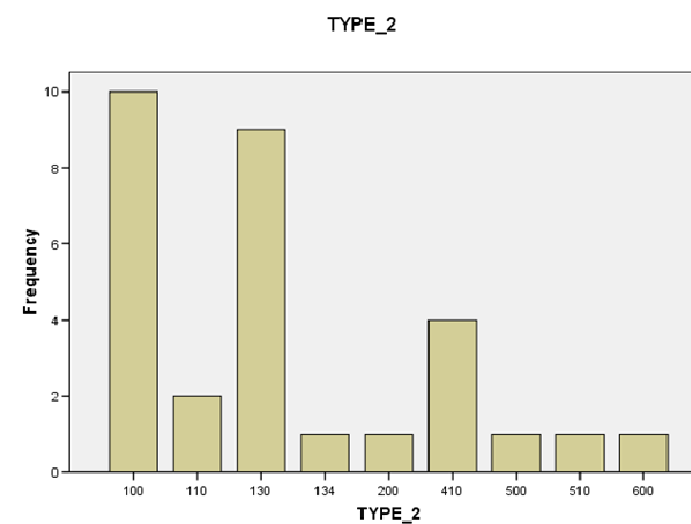
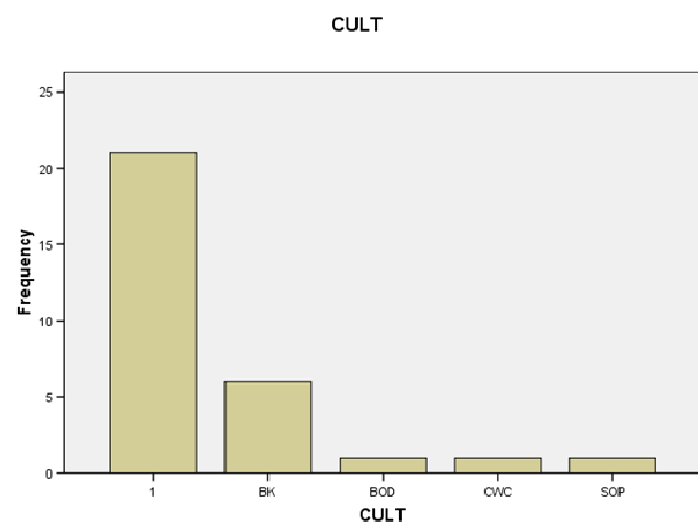
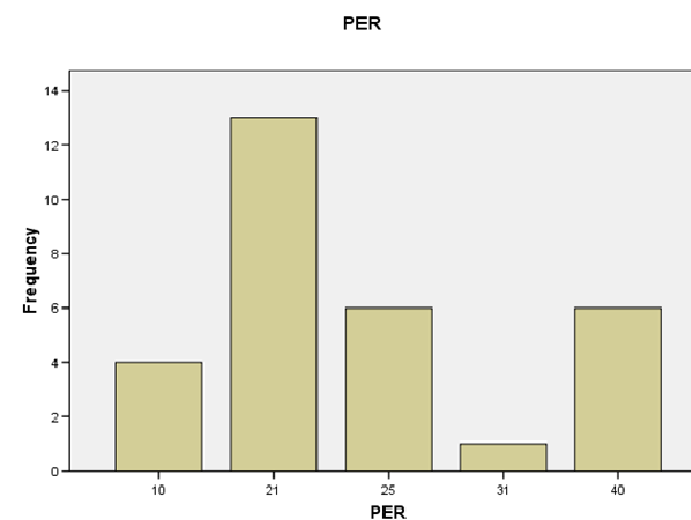
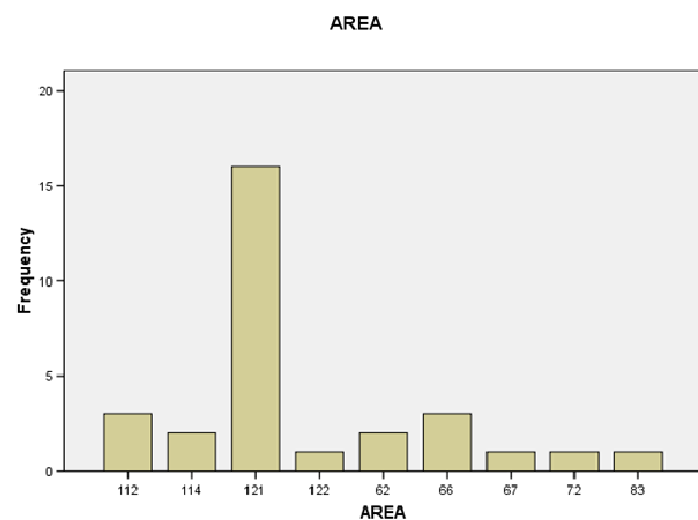
34) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 23



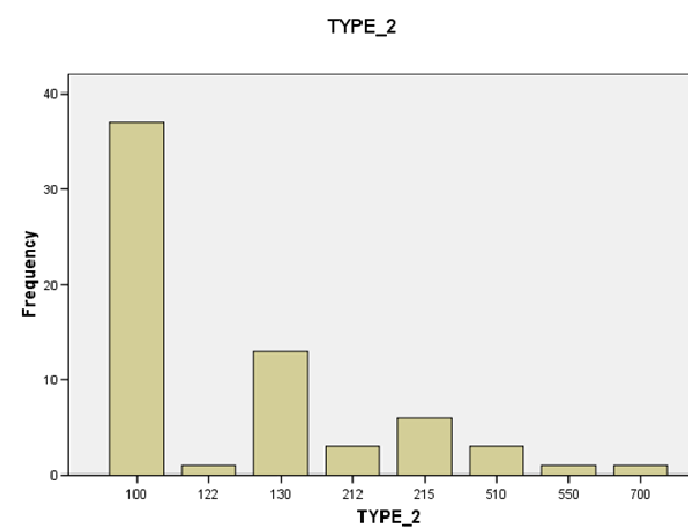
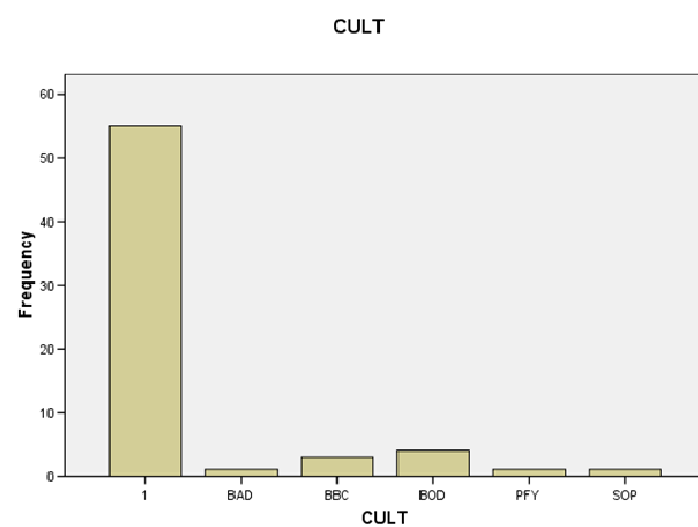
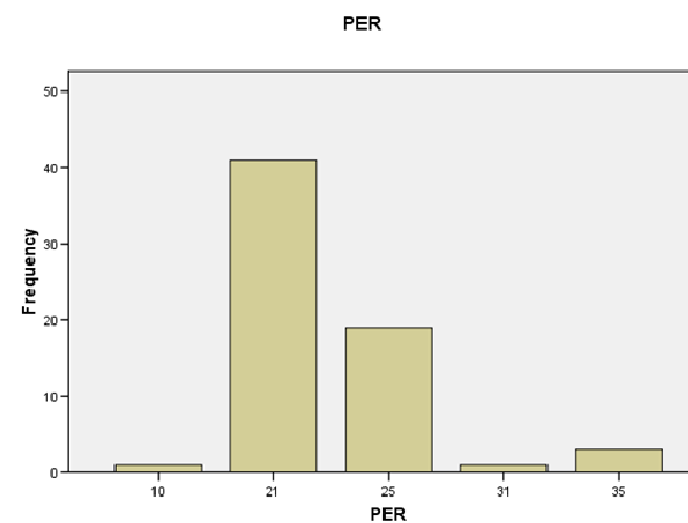
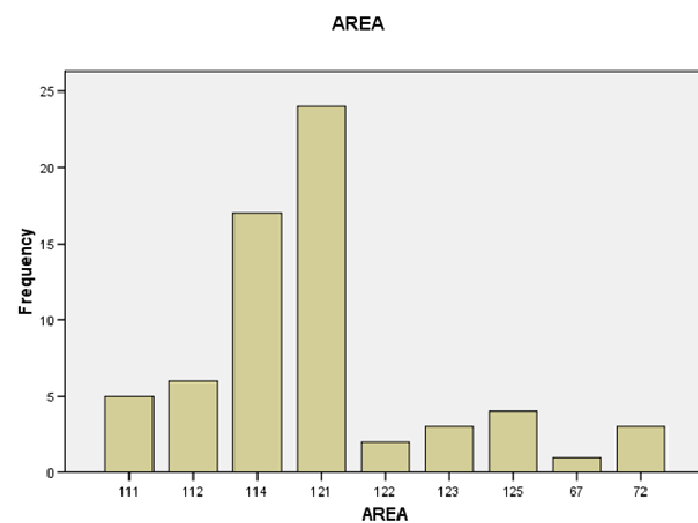
35) Box plots of the trace element compositions of the Clusters 24— 26 of Cluster Level IV and the SAM-groups (MG)



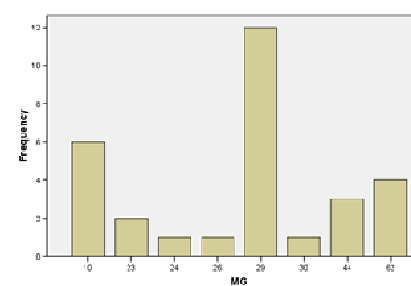
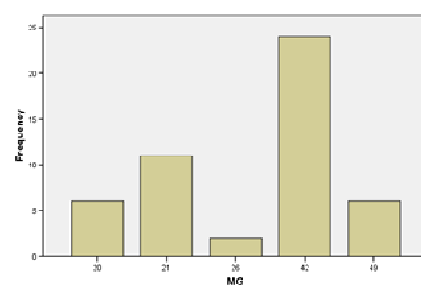
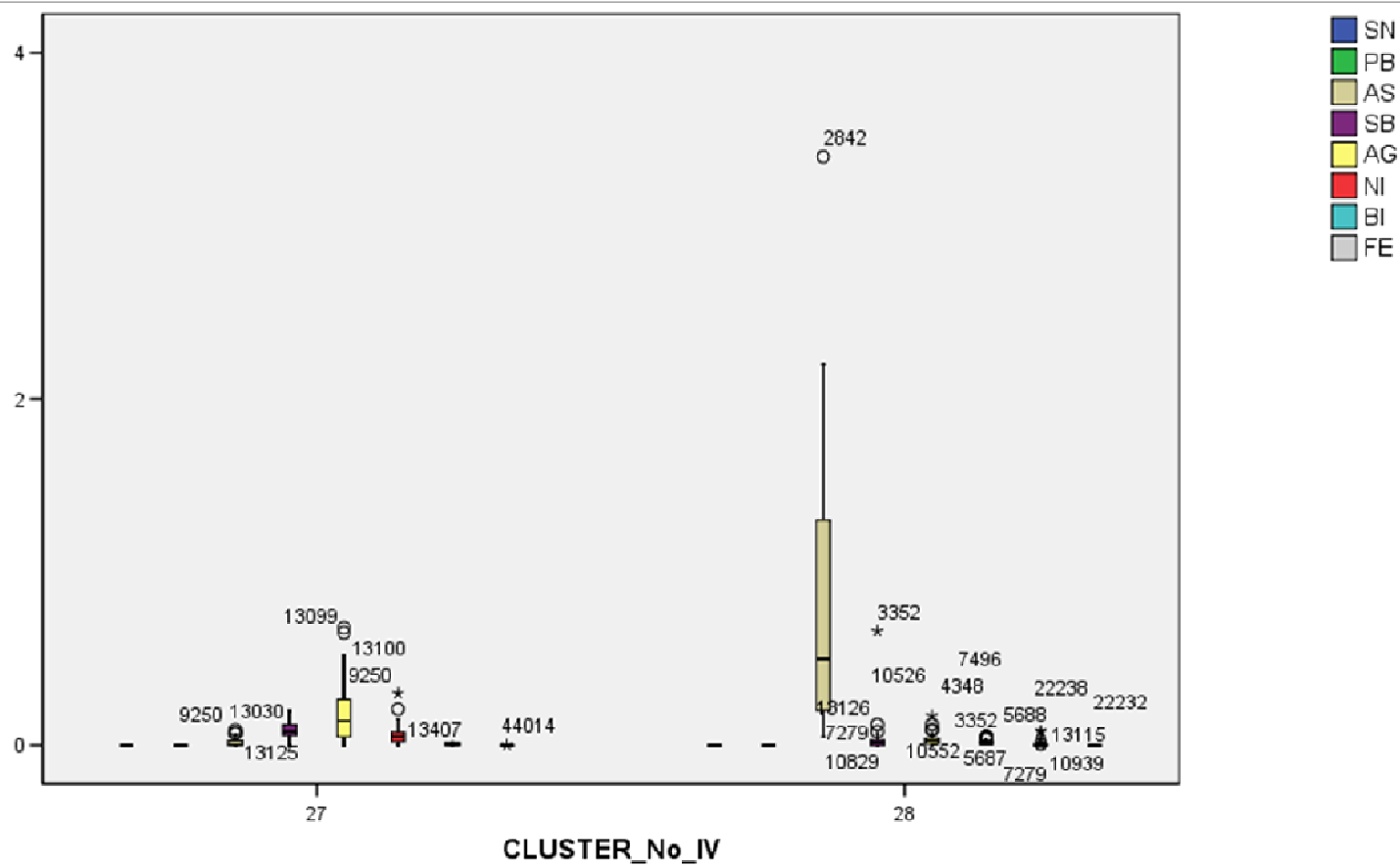
36) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 24



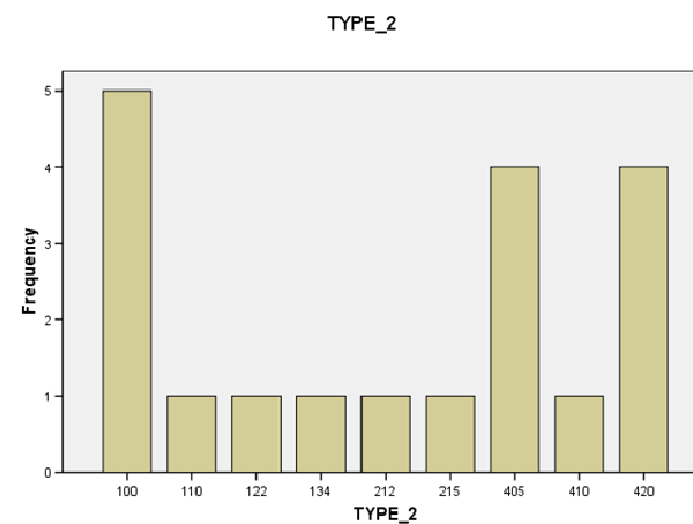
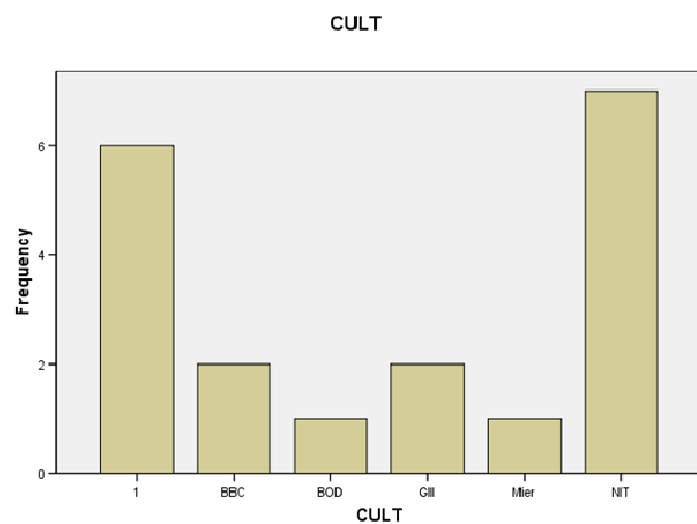
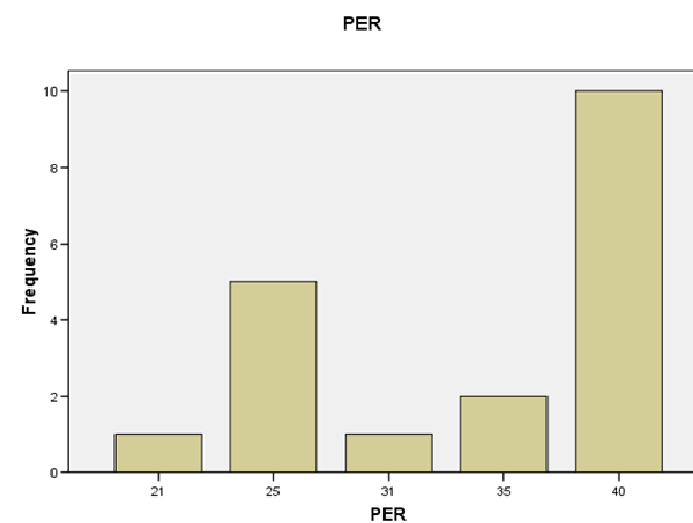
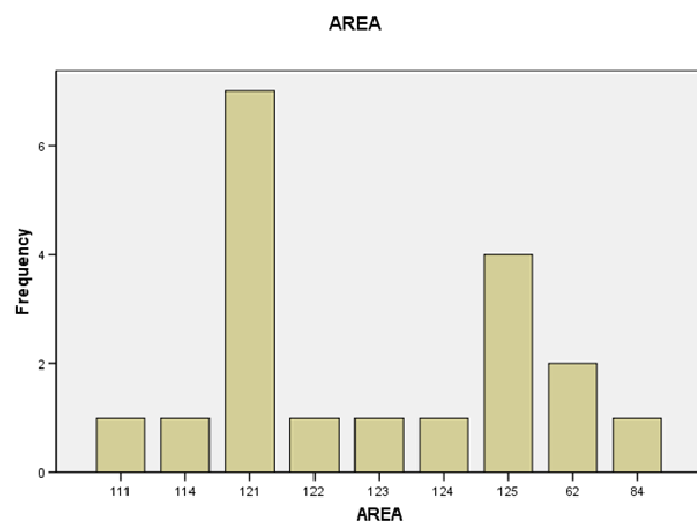
37) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 25



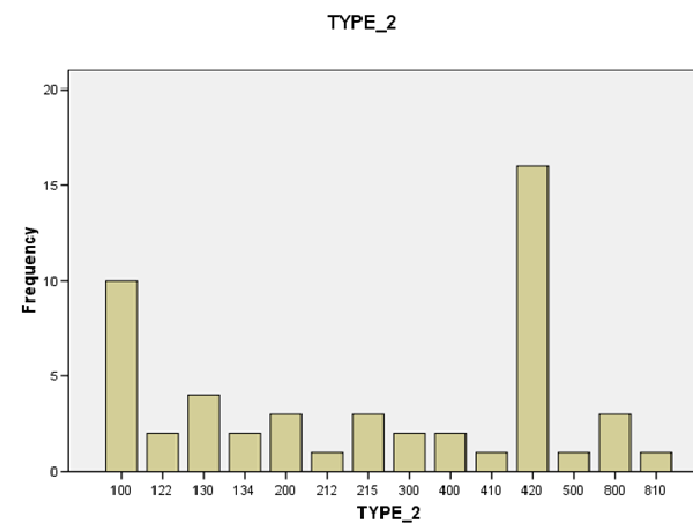
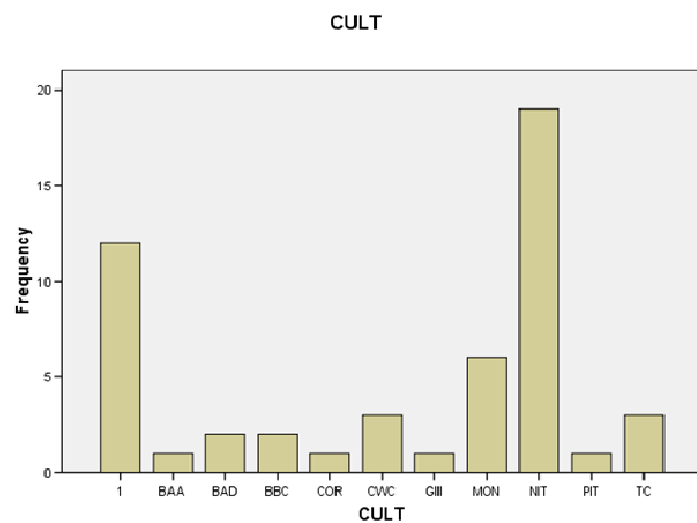
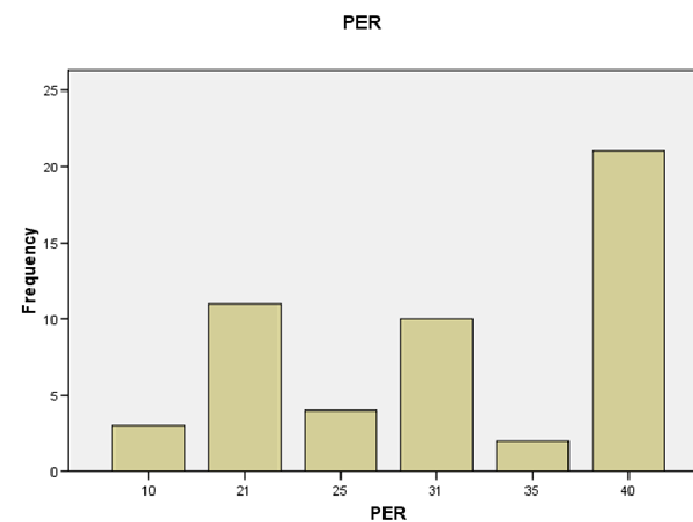
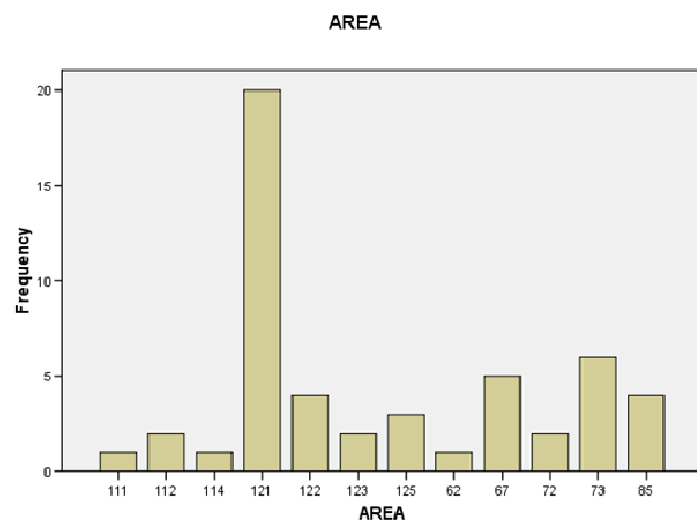
38) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 26



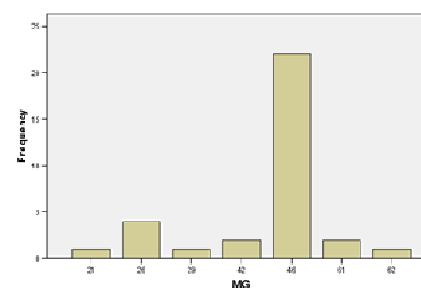
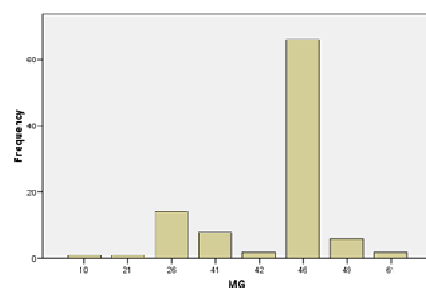
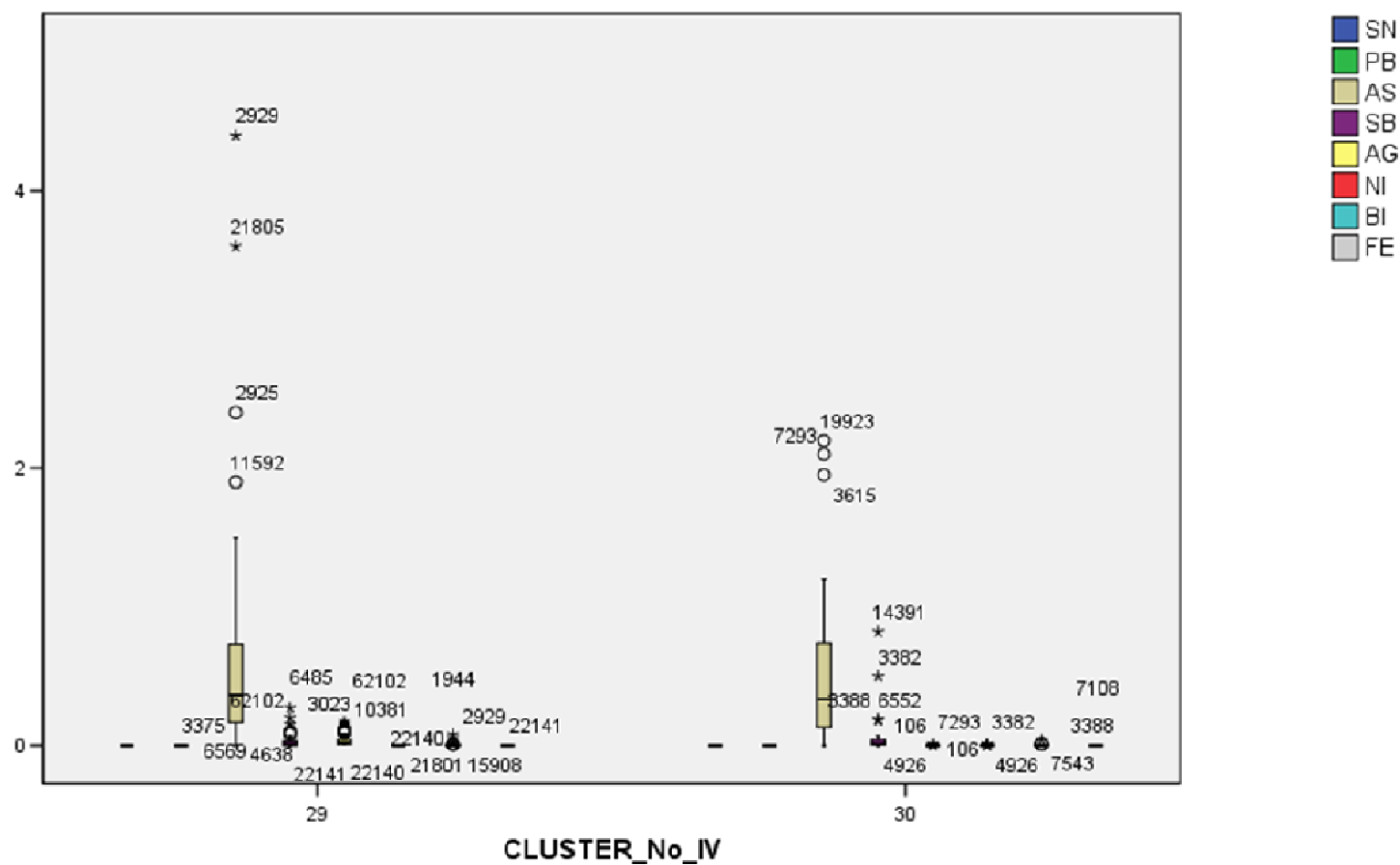
39) Box plots of the trace element compositions of the Cluster 27 and 28 of Cluster Level IV and the SAM-groups (MG)



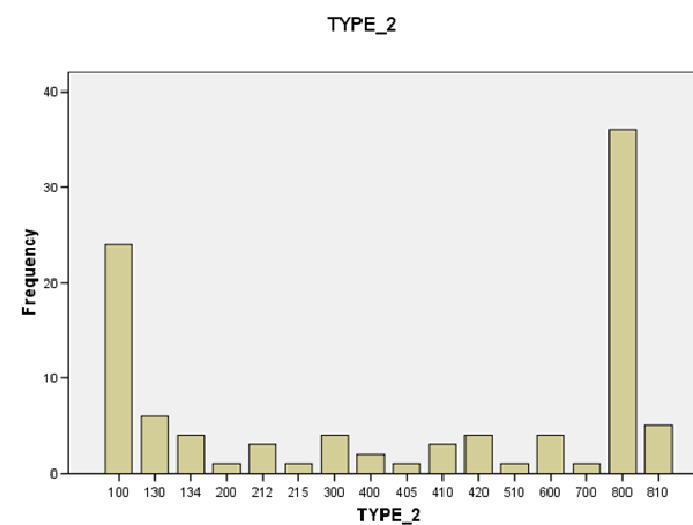
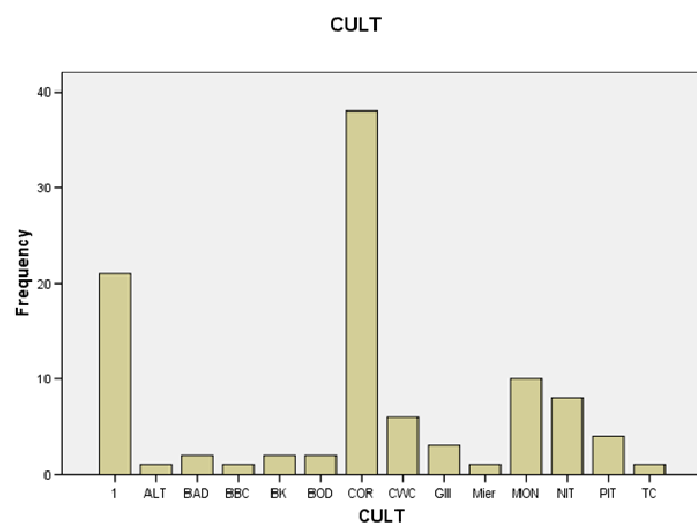
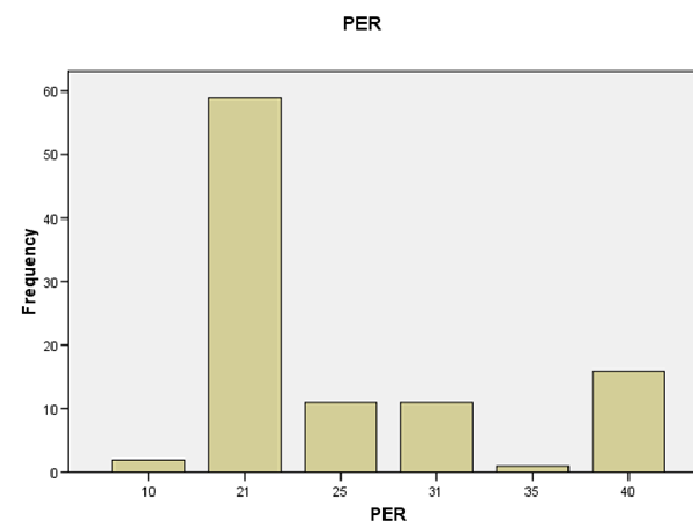
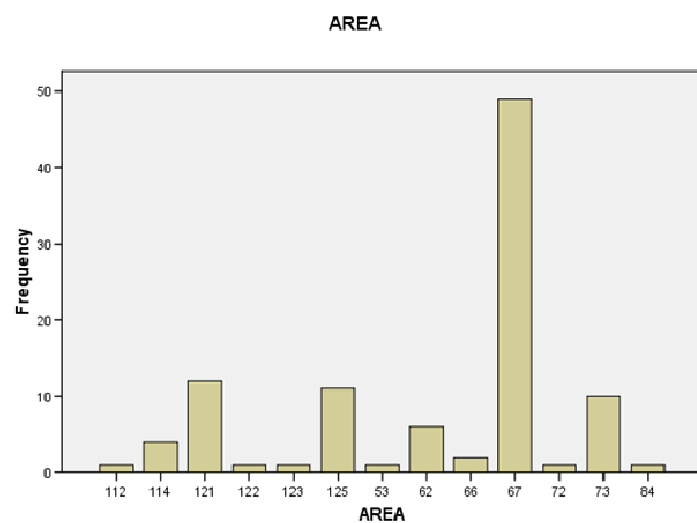
40) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 27



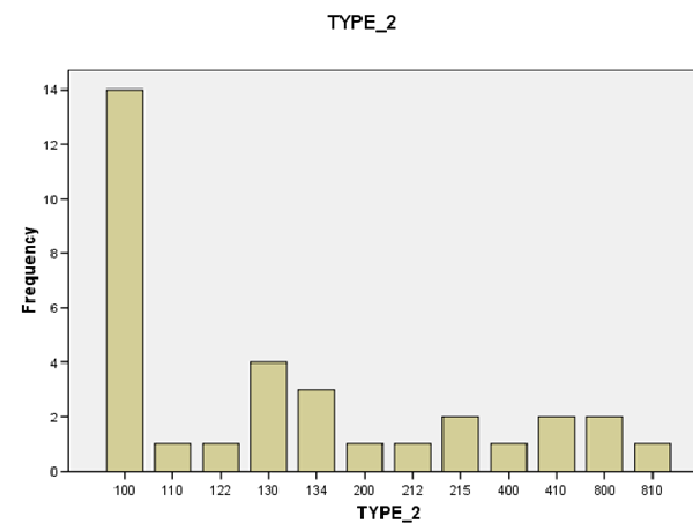
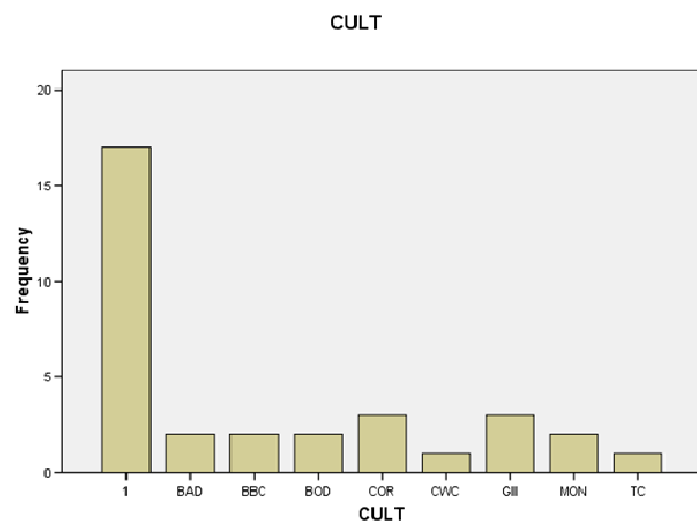
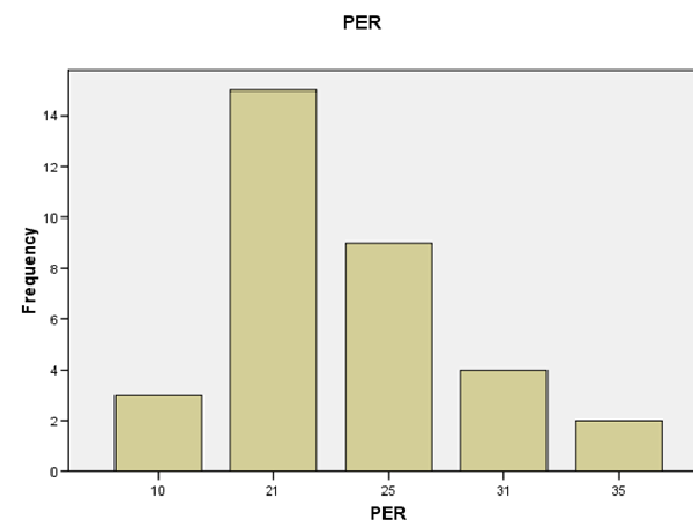
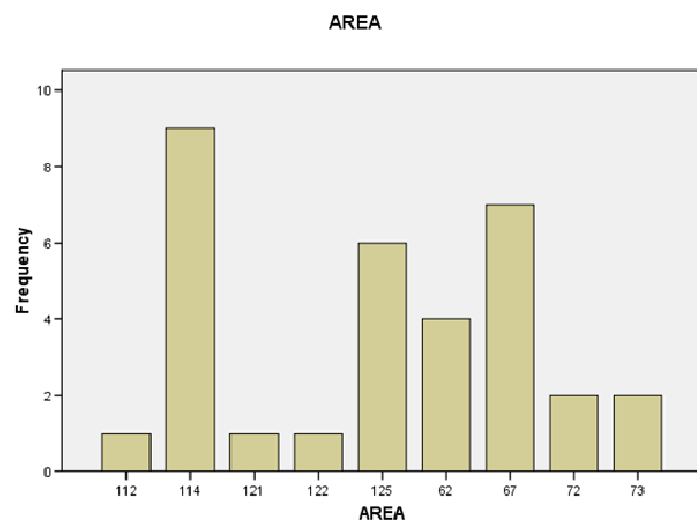
41) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 28



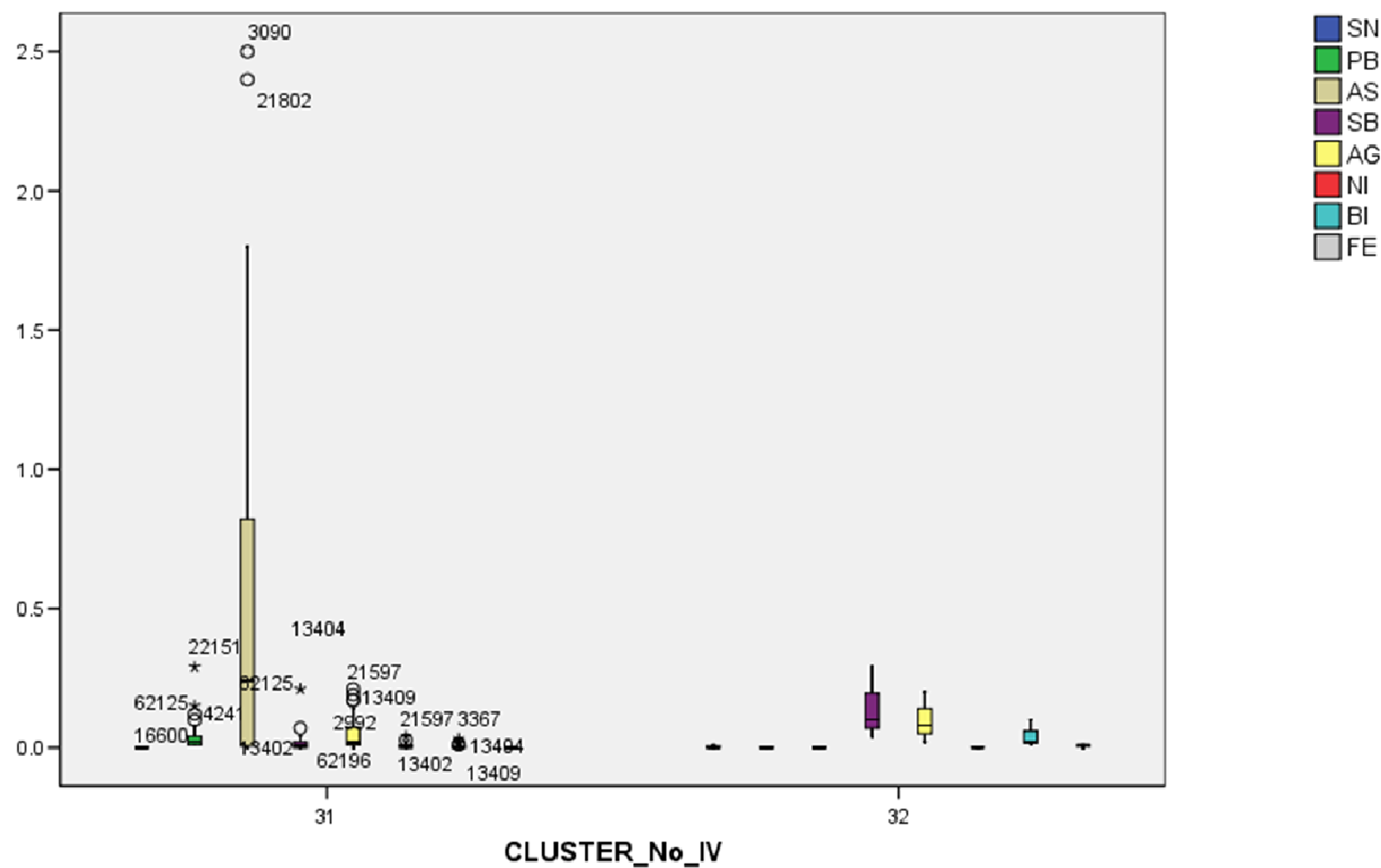
42) Comparison of Cluster 29 — 30 of Level IV (Box plots, SAM-groups MG)



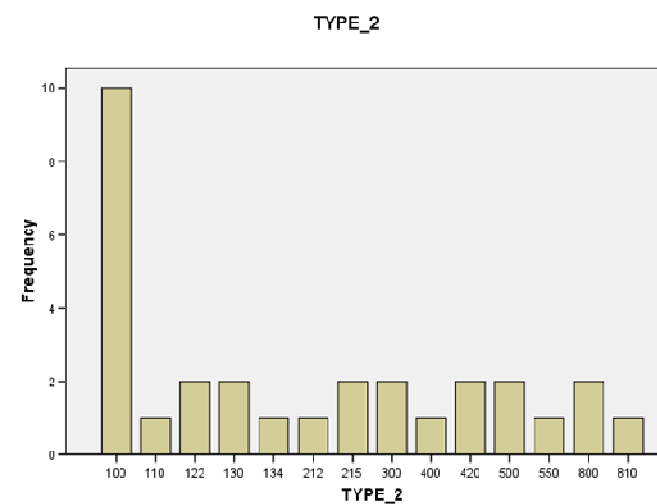
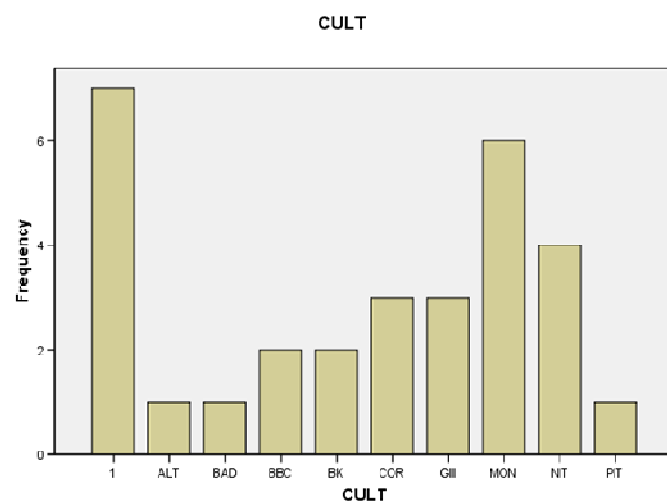
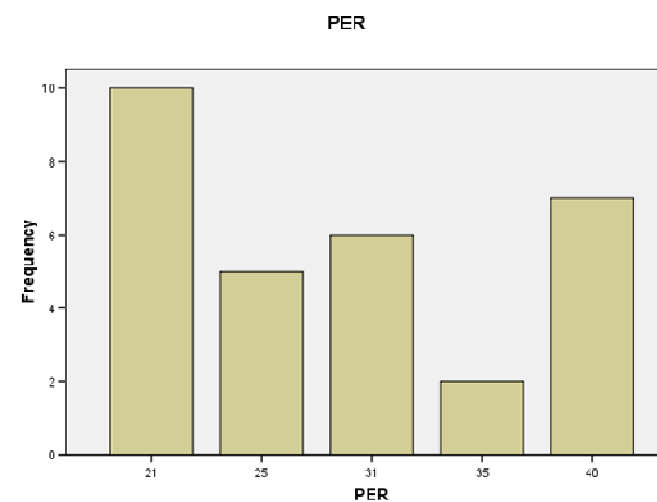
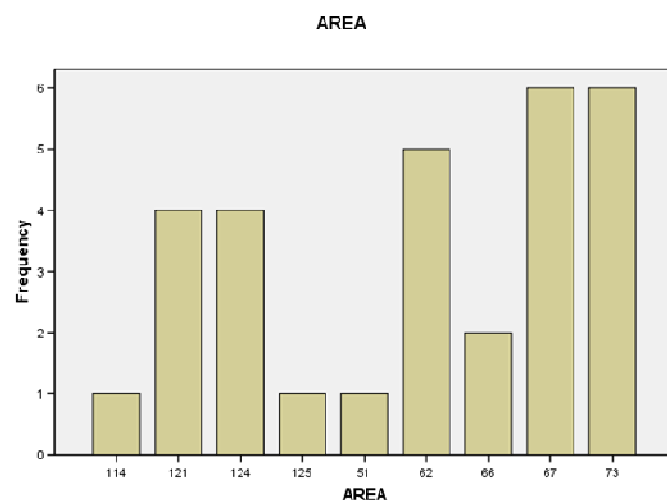
43) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 29



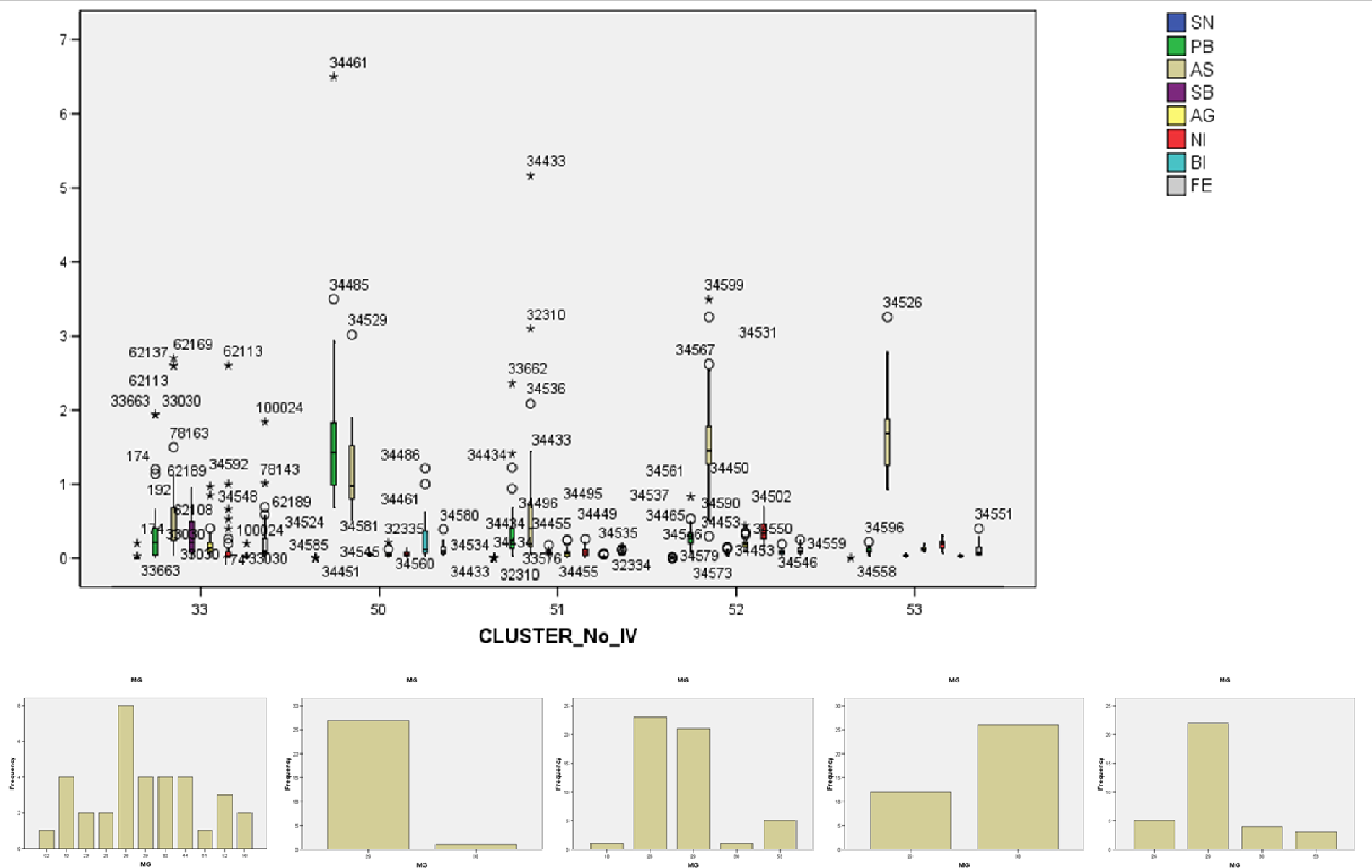
44) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 30



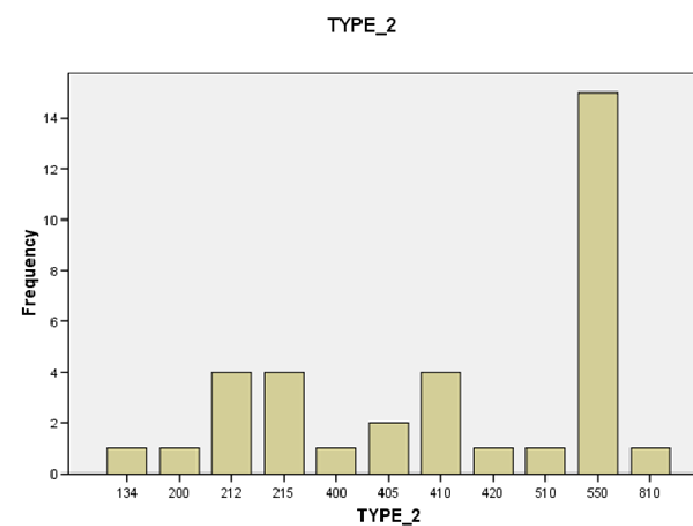
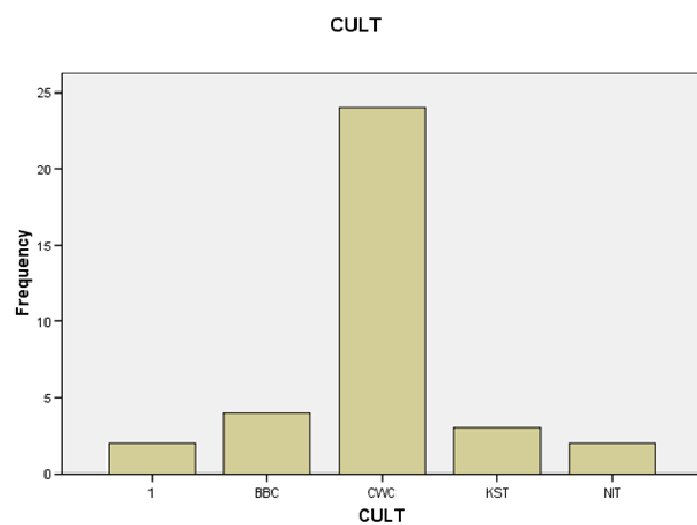
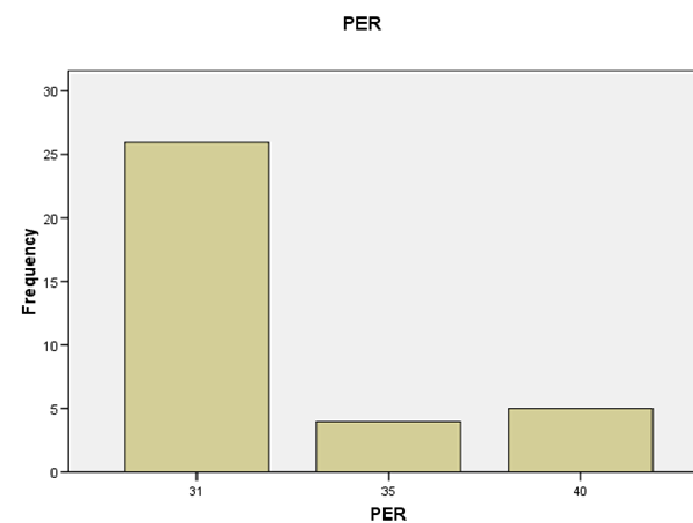
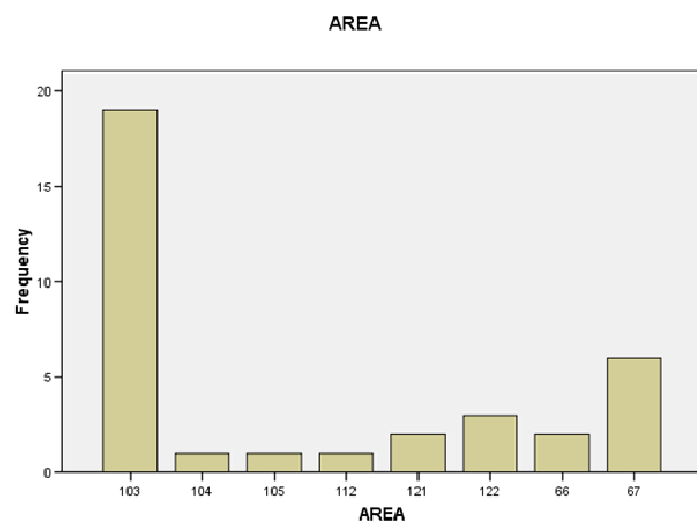
45) Box plots of the trace element compositions of the Cluster 31 and 32 of Cluster Level IV and the SAM-groups (MG)



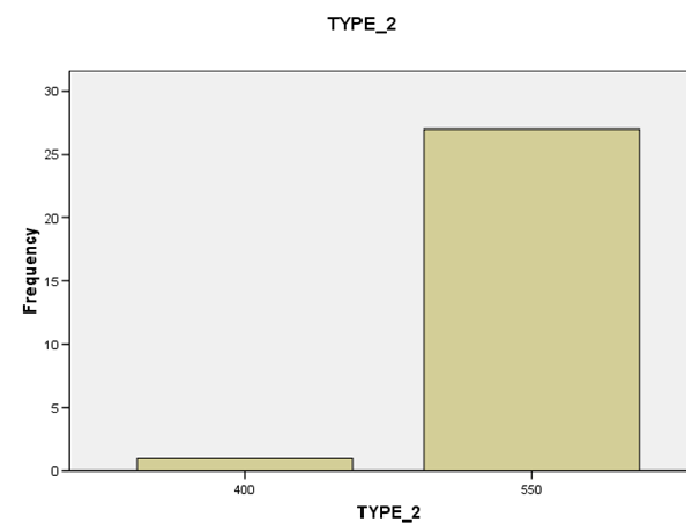
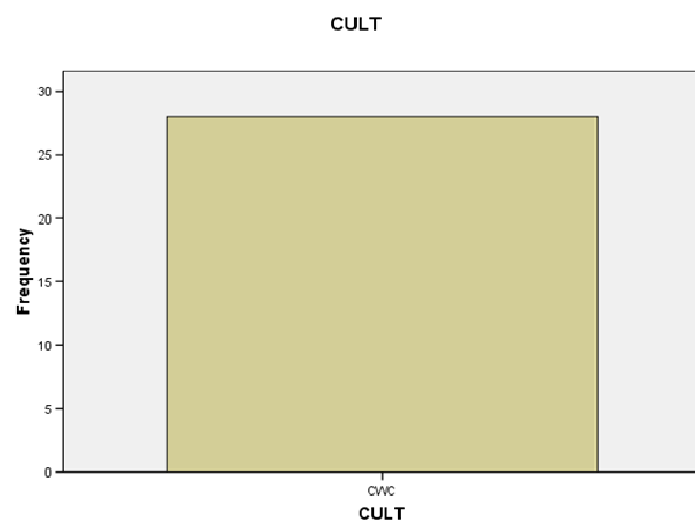
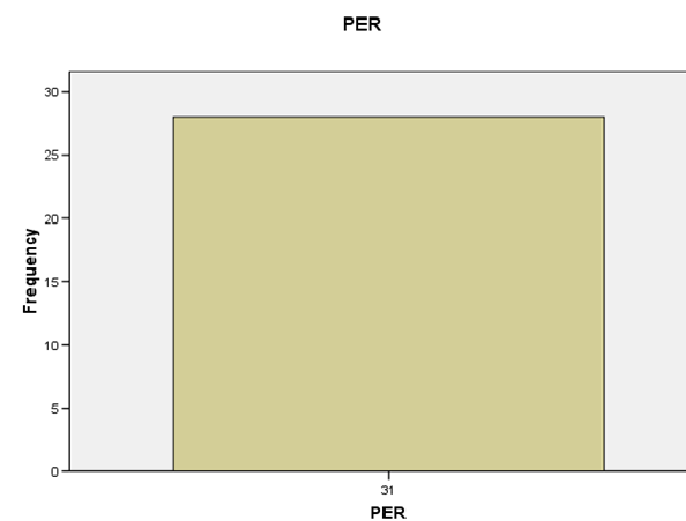
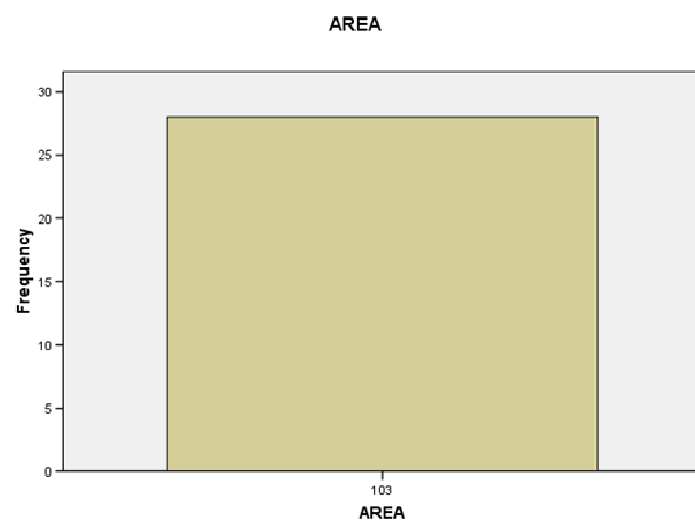
46) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 31



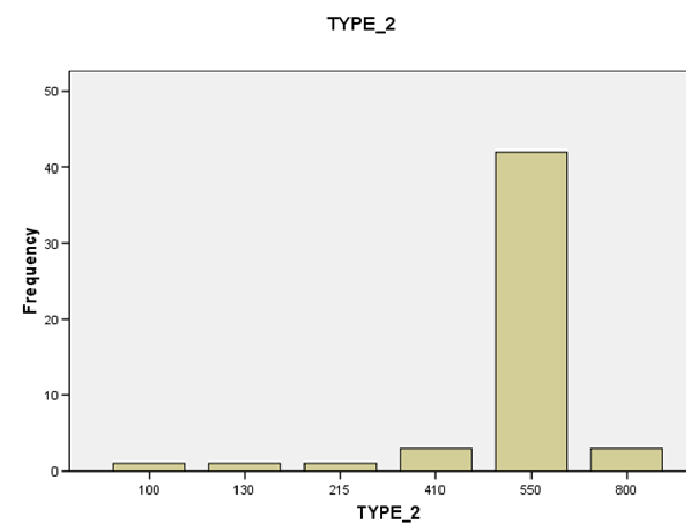
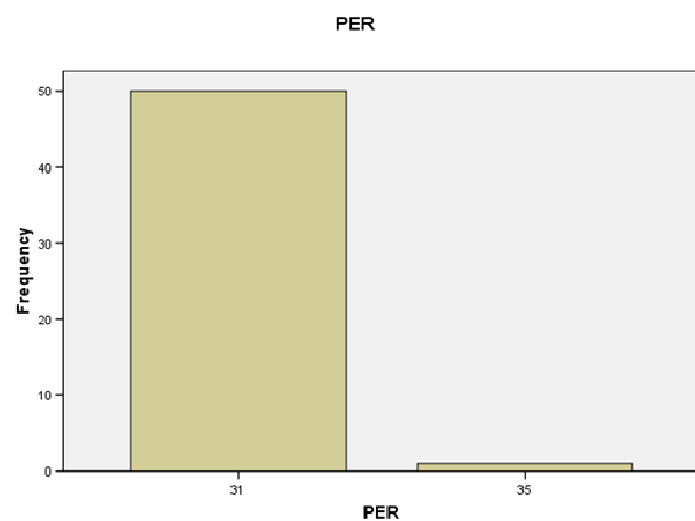
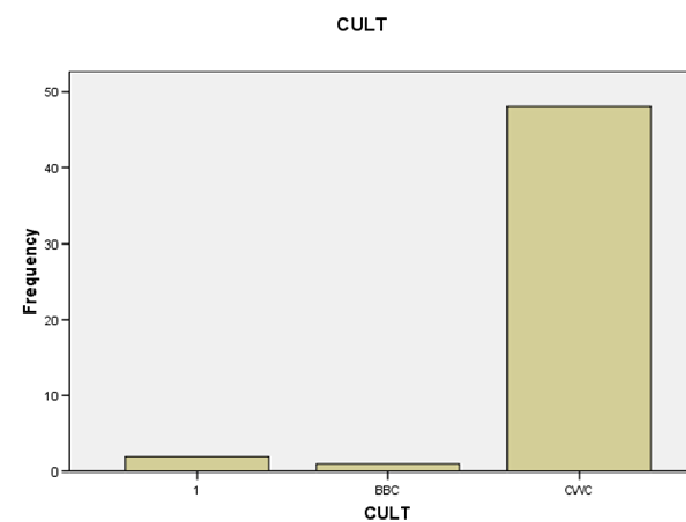
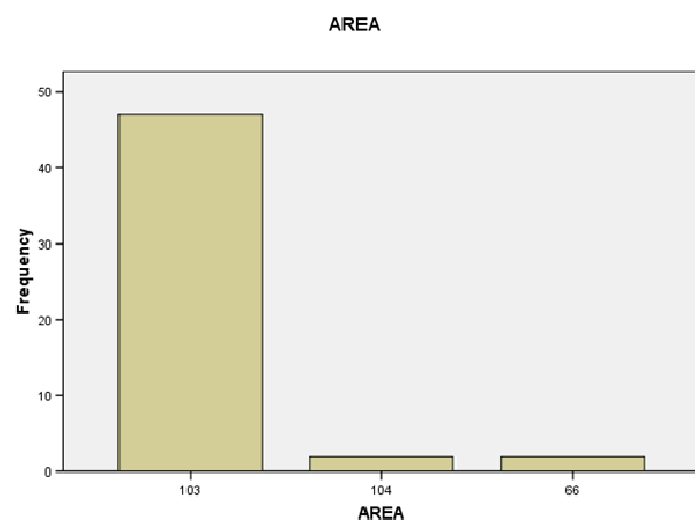
47) Box plots of the trace element compositions of the Clusters 33 and 50— 53 of Cluster Level IV and the SAM-groups (MG)



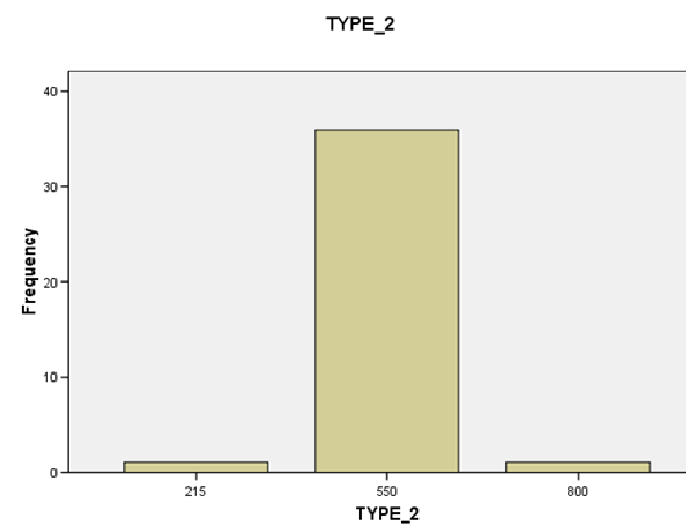
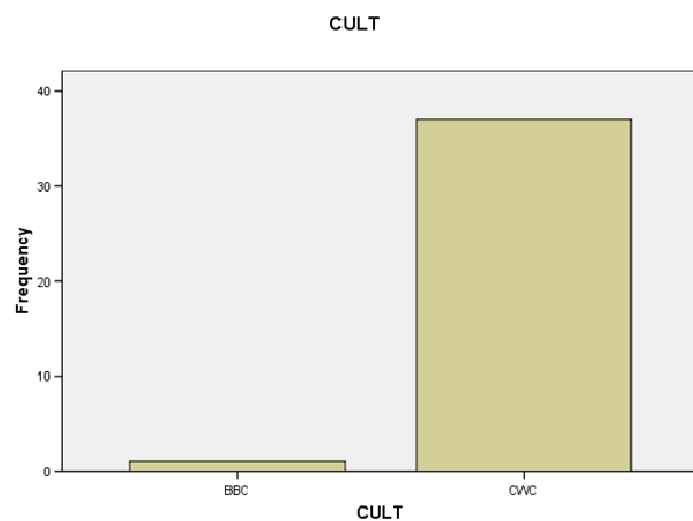
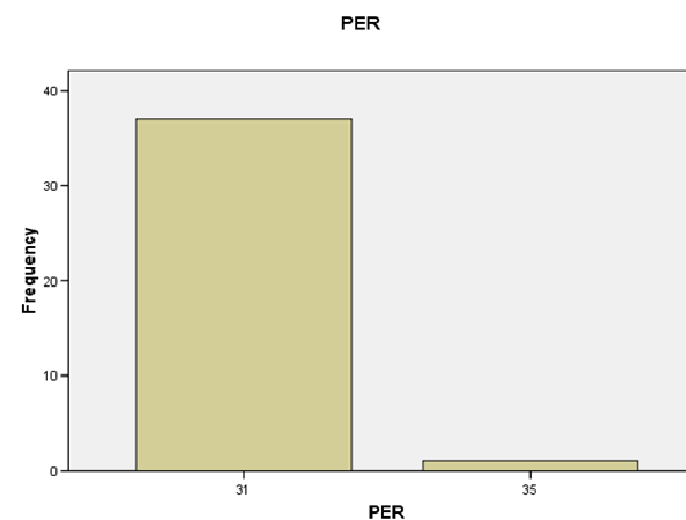
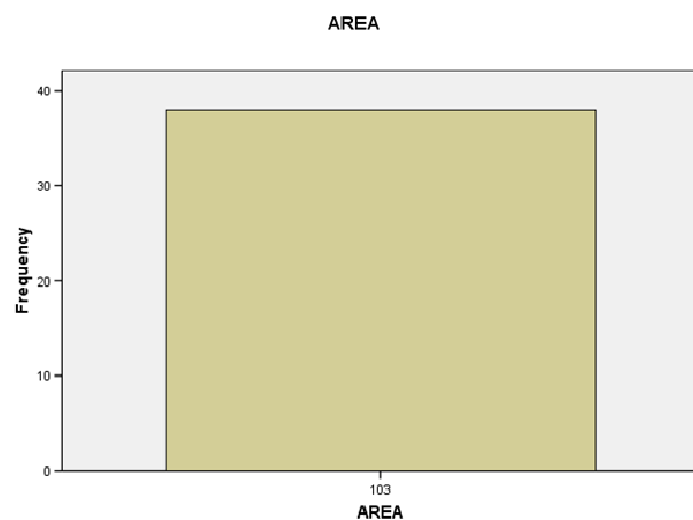
48) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 33



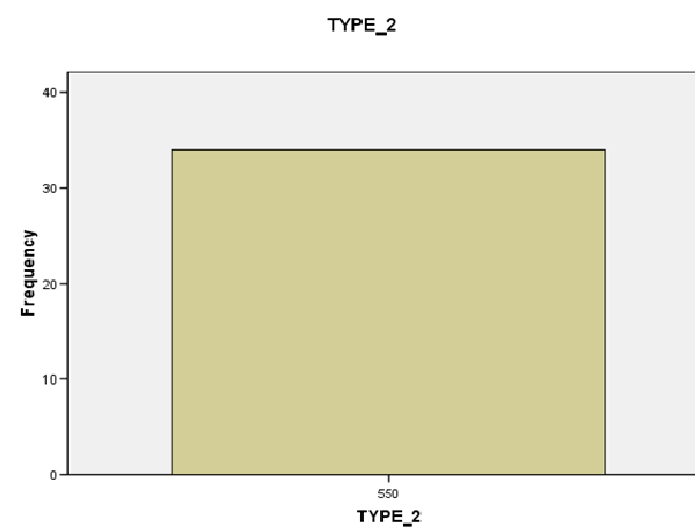
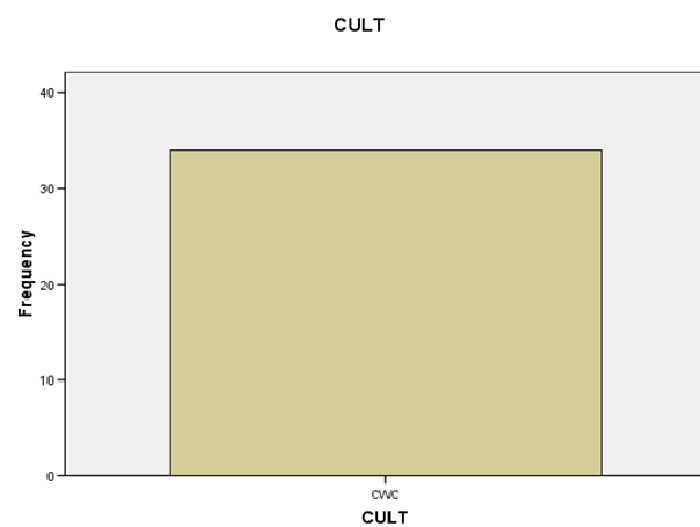
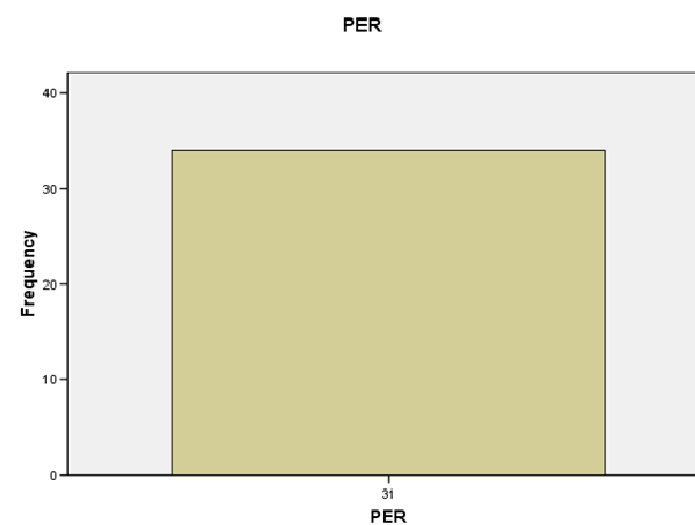
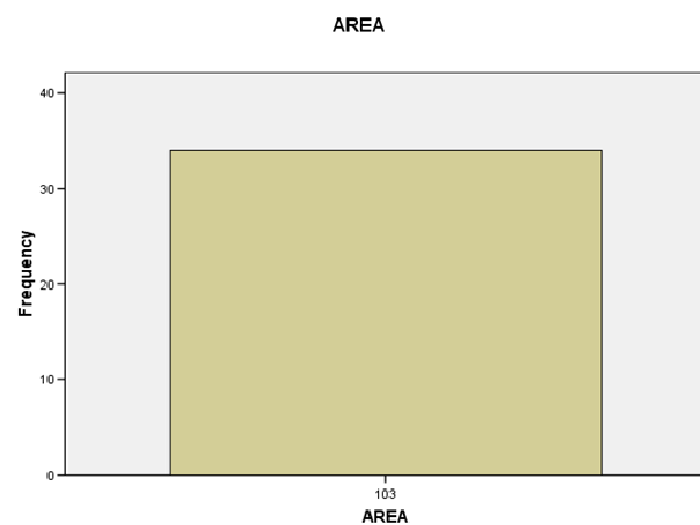
49) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 50



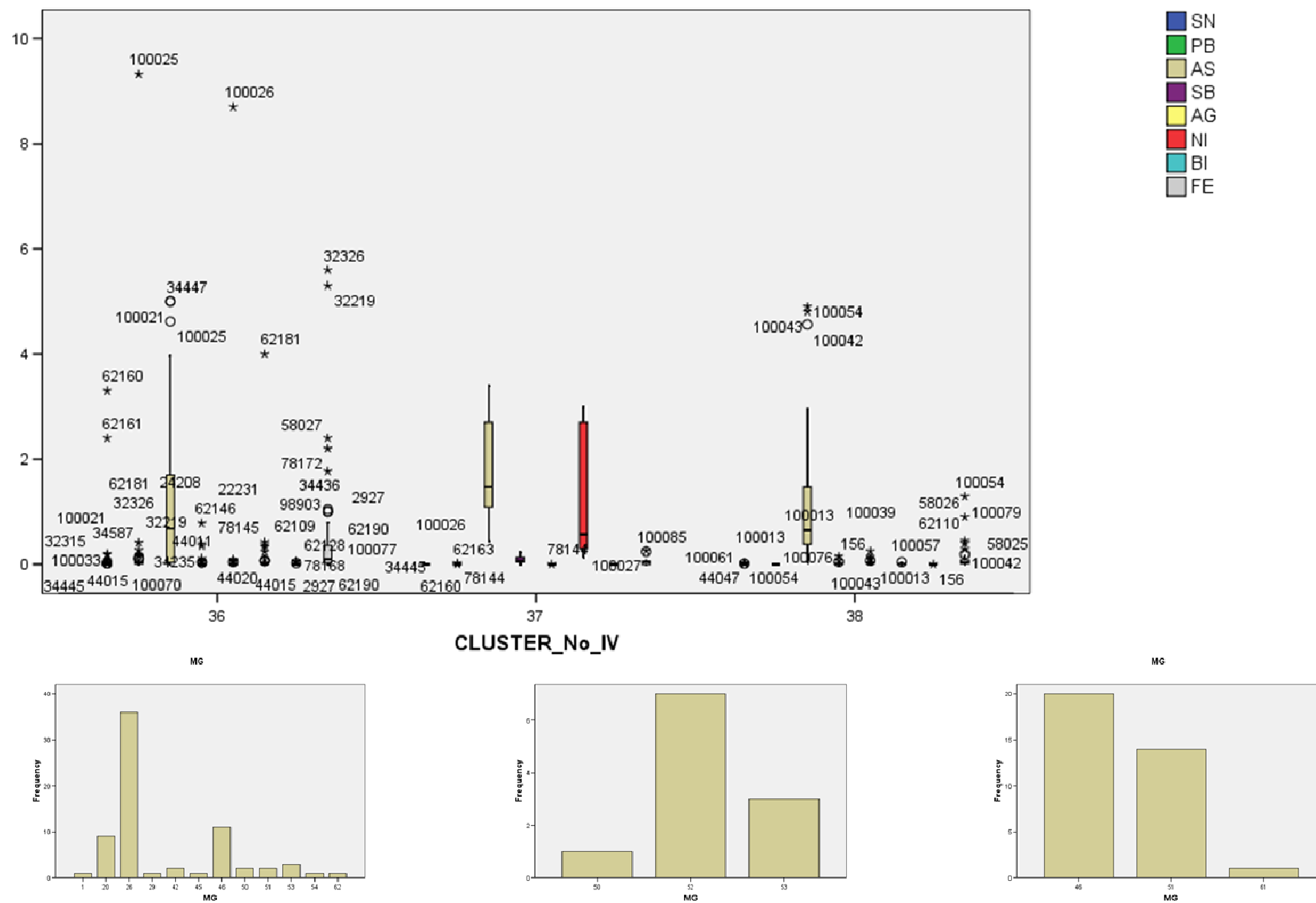
50) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 51



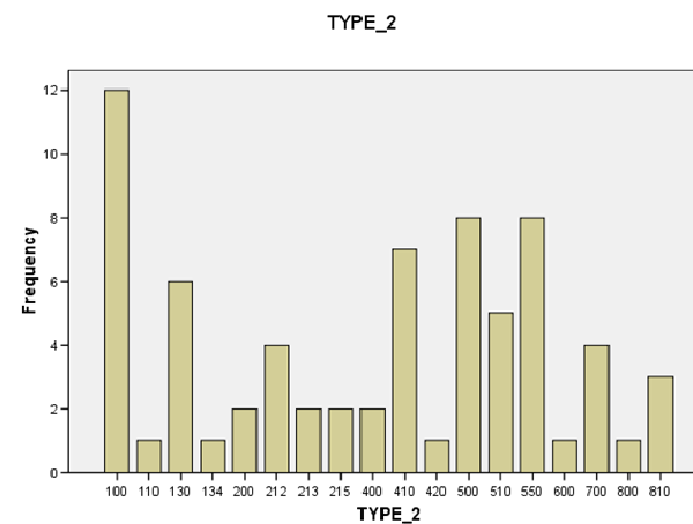
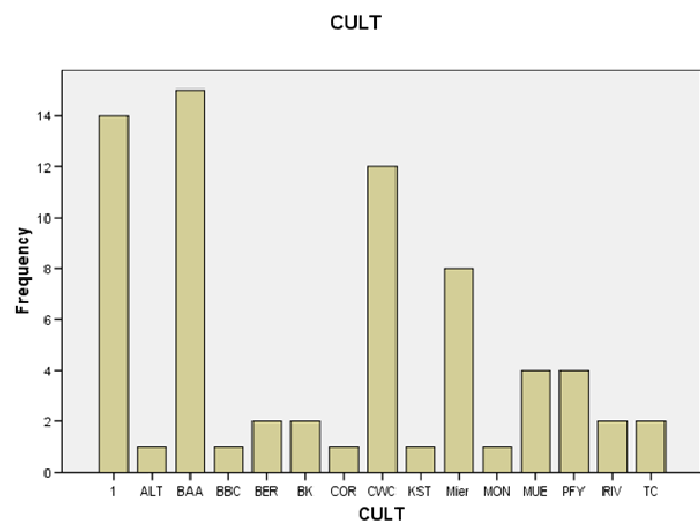
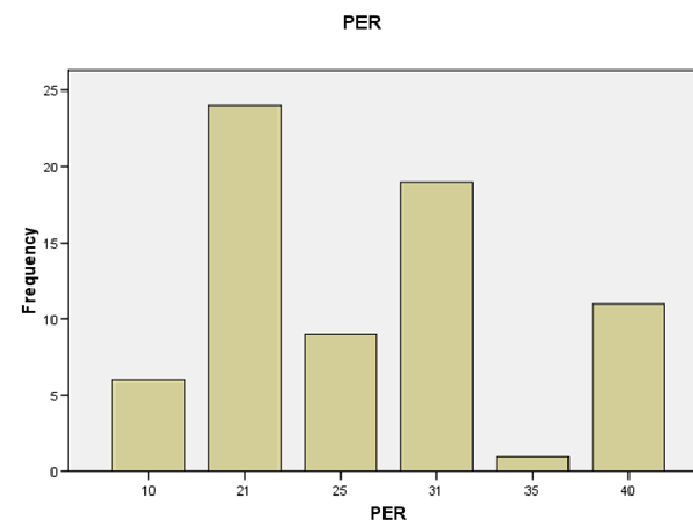
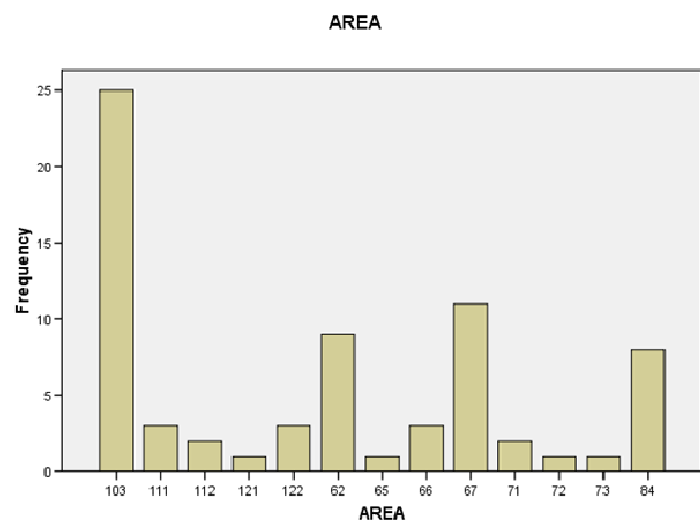
51) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 52



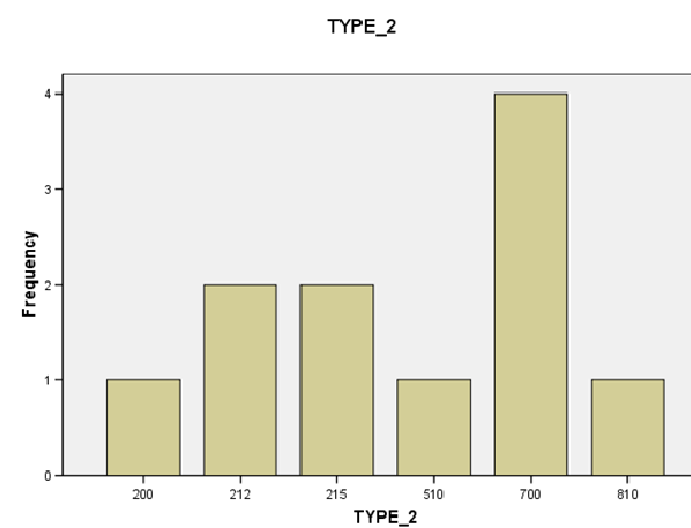
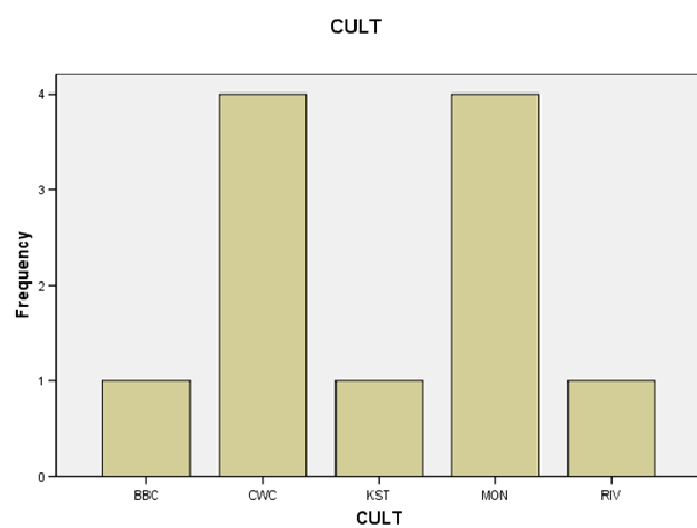
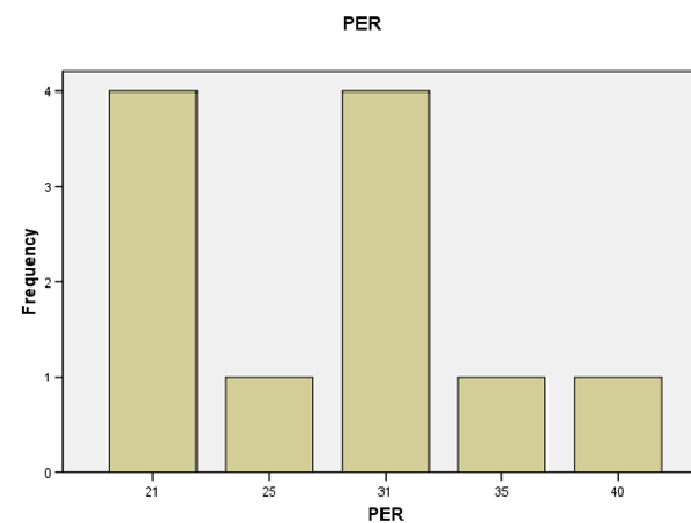
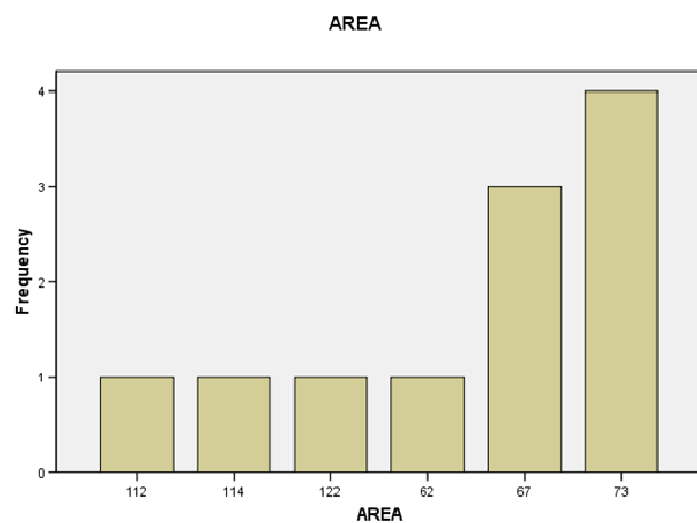
52) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 53



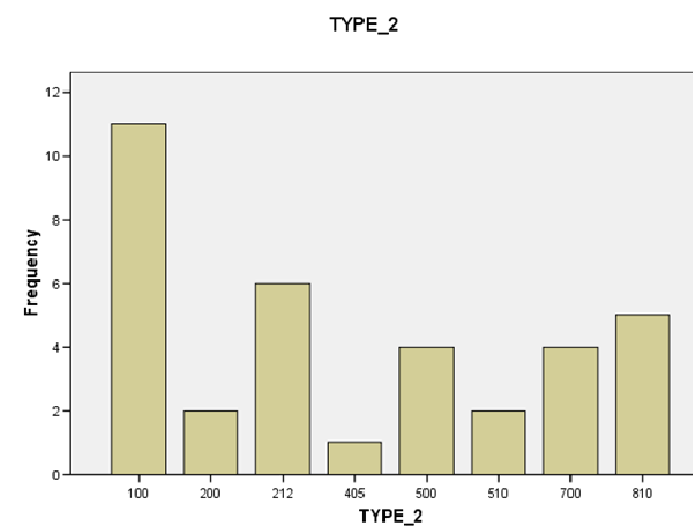
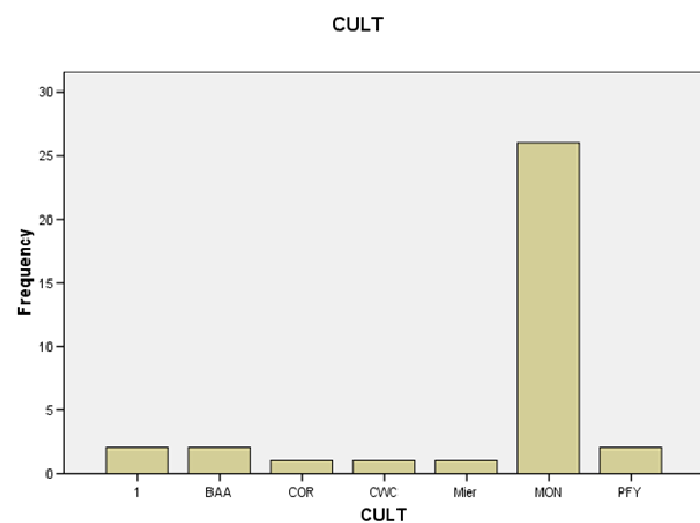
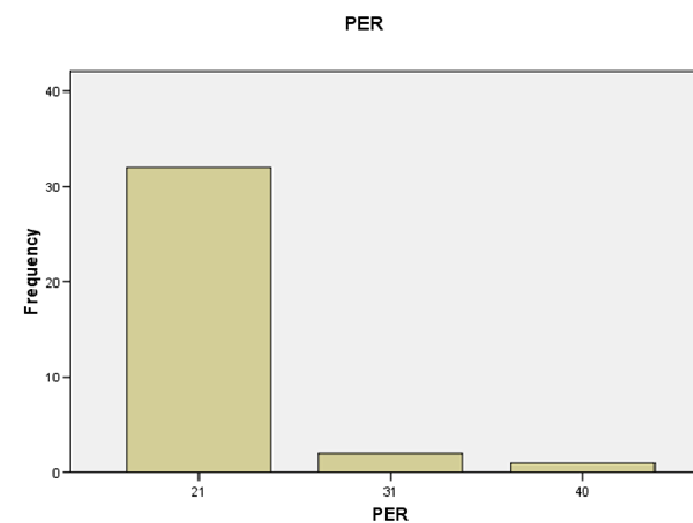
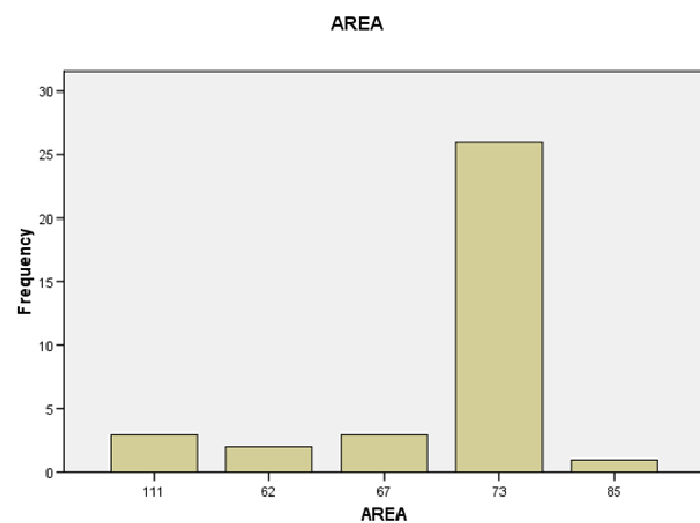
53) Box plots of the trace element compositions of the Clusters 36 — 38 of Cluster Level IV and the SAM-groups (MG)



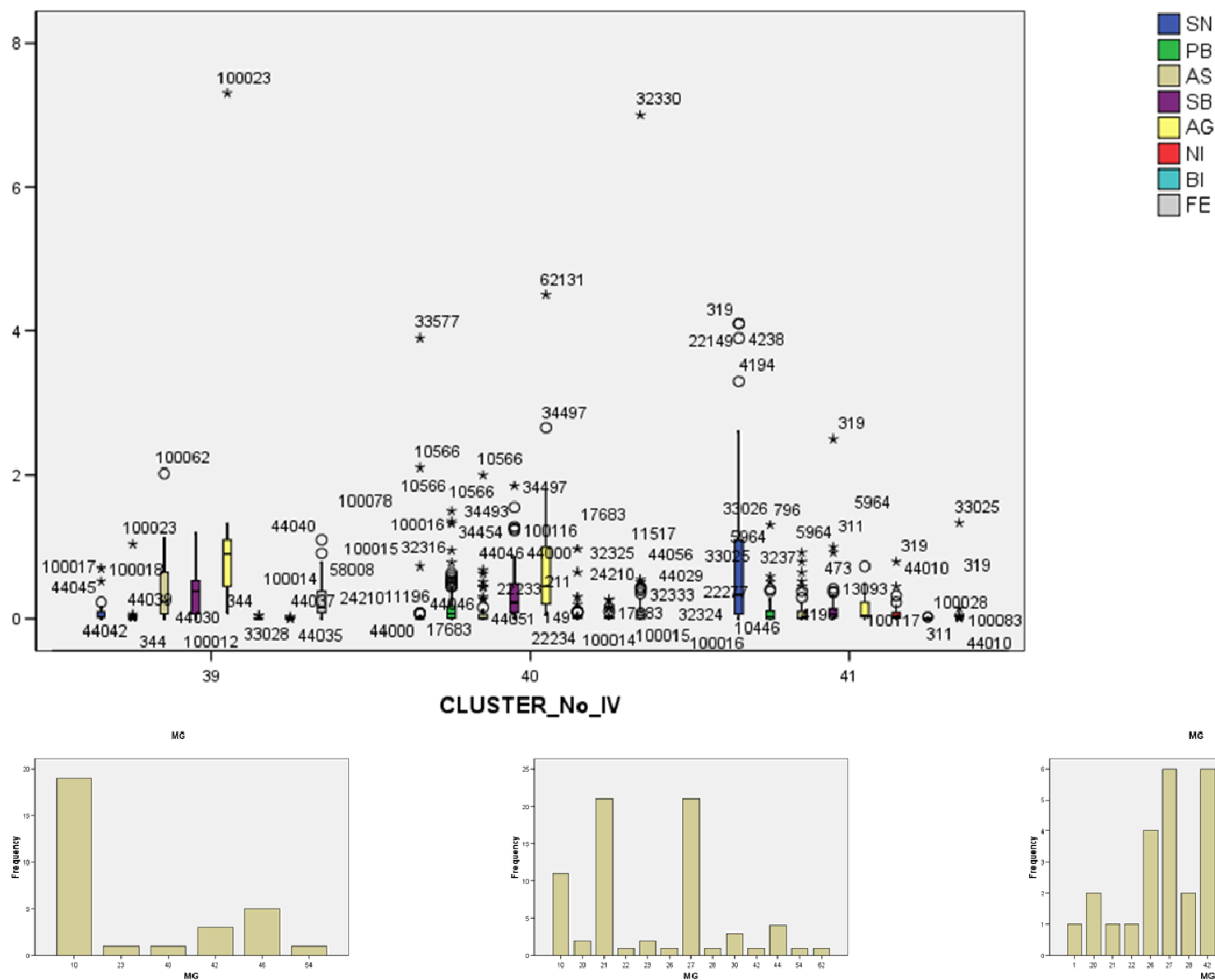
54) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 36



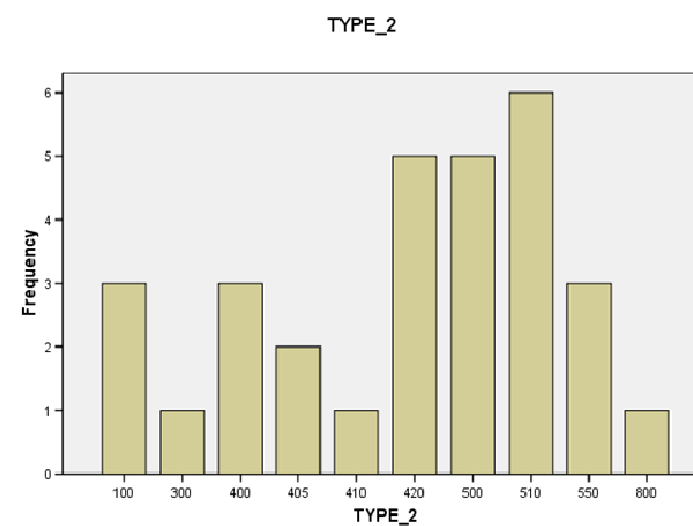
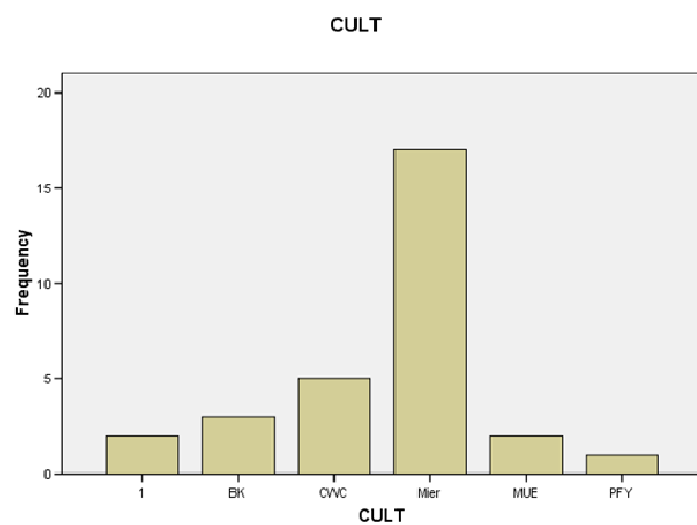
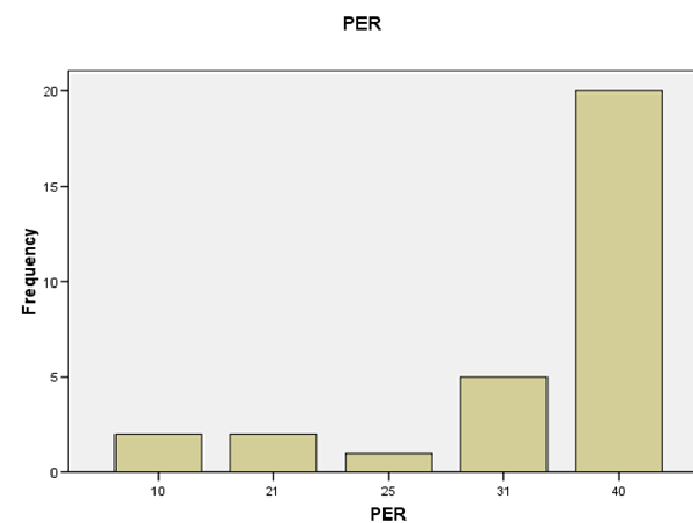
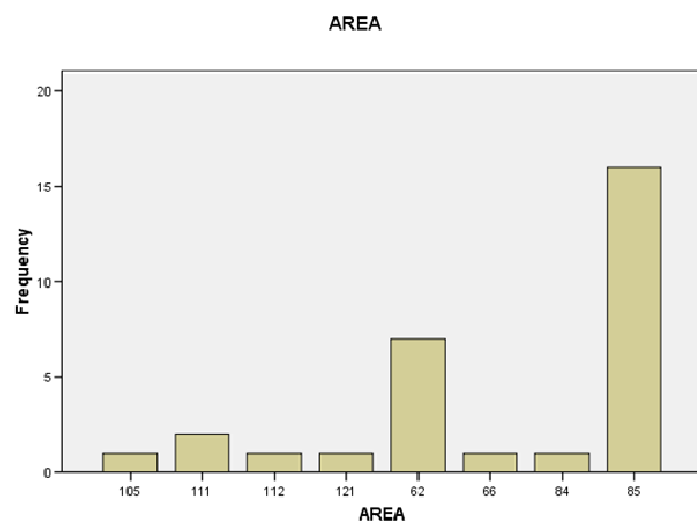
55) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 37



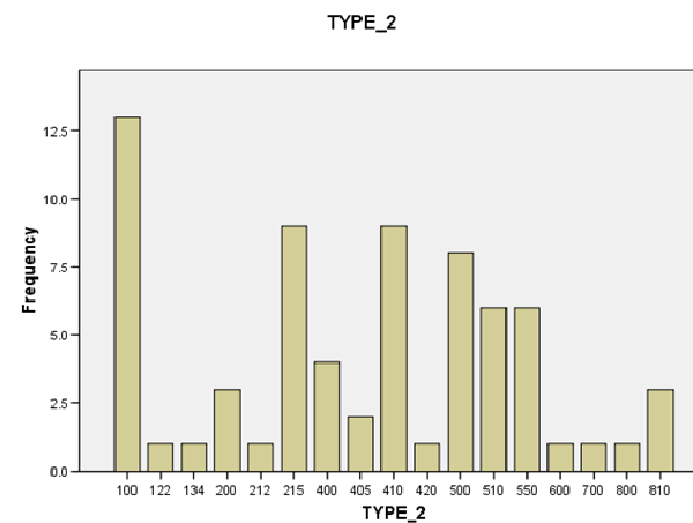
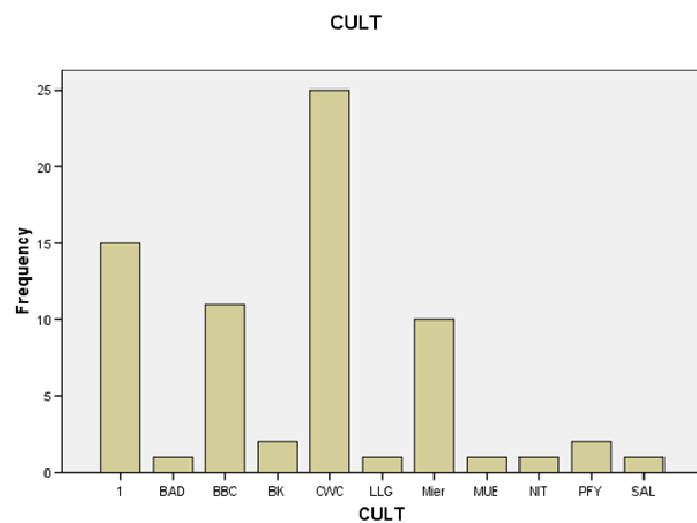
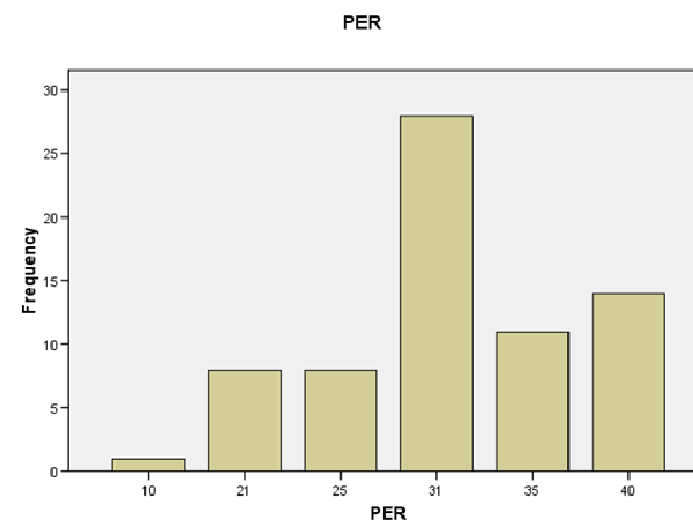
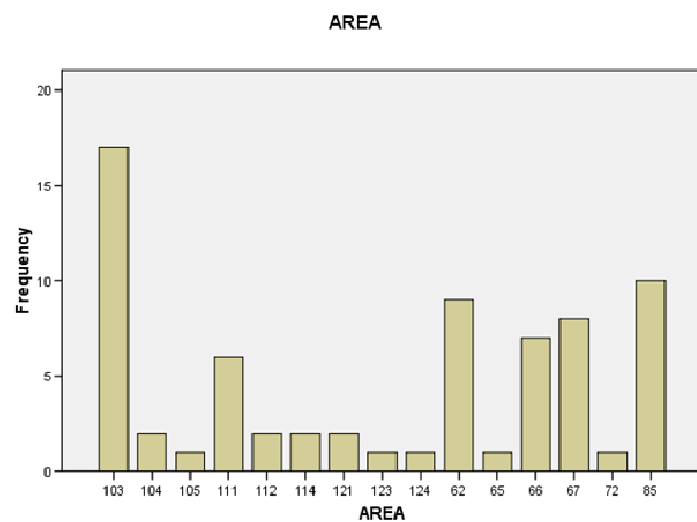
56) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 38



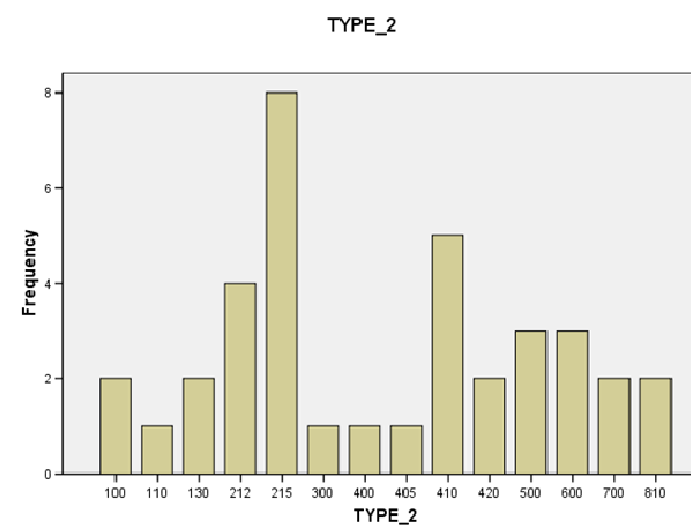
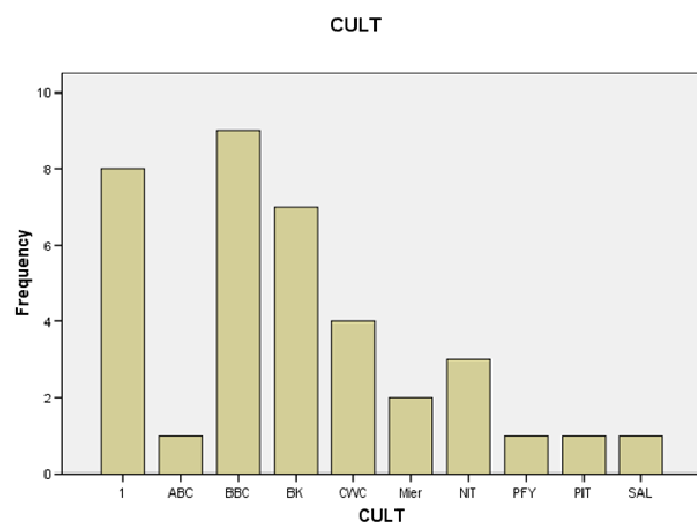
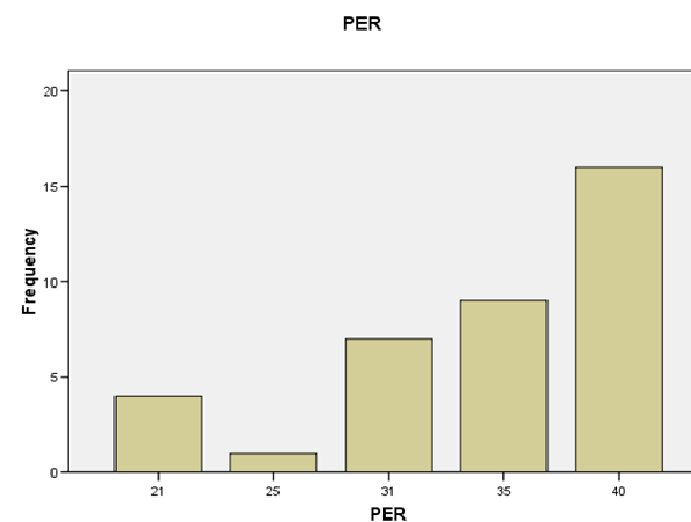
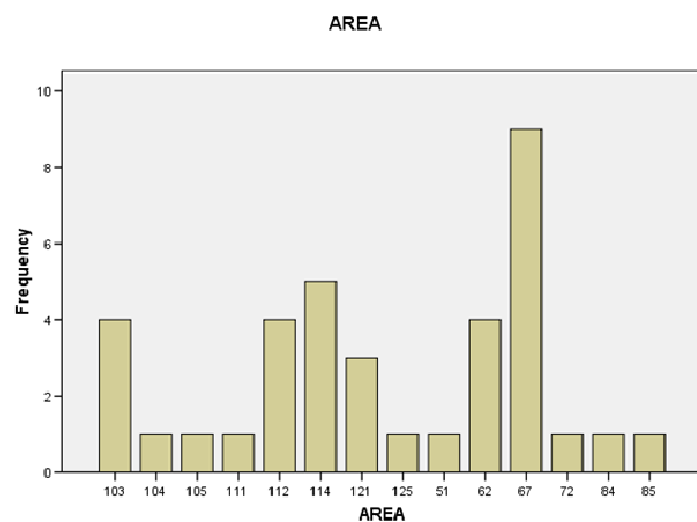
57) Box plots of the trace element compositions of the Clusters 39— 41 of Cluster Level IV and the SAM-groups (MG)



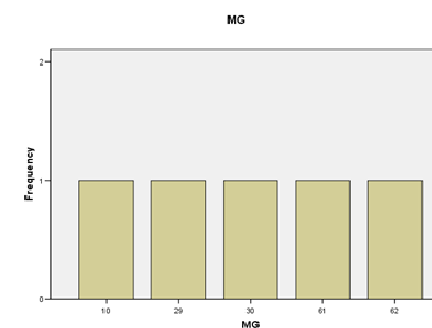
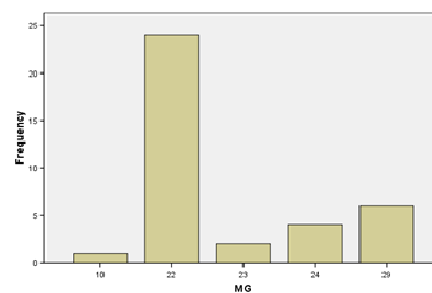
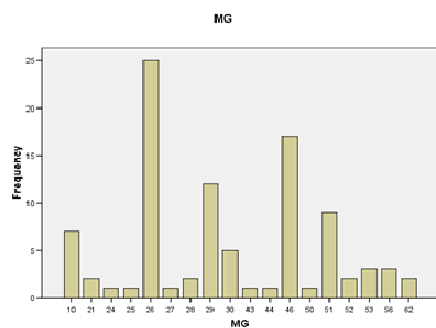
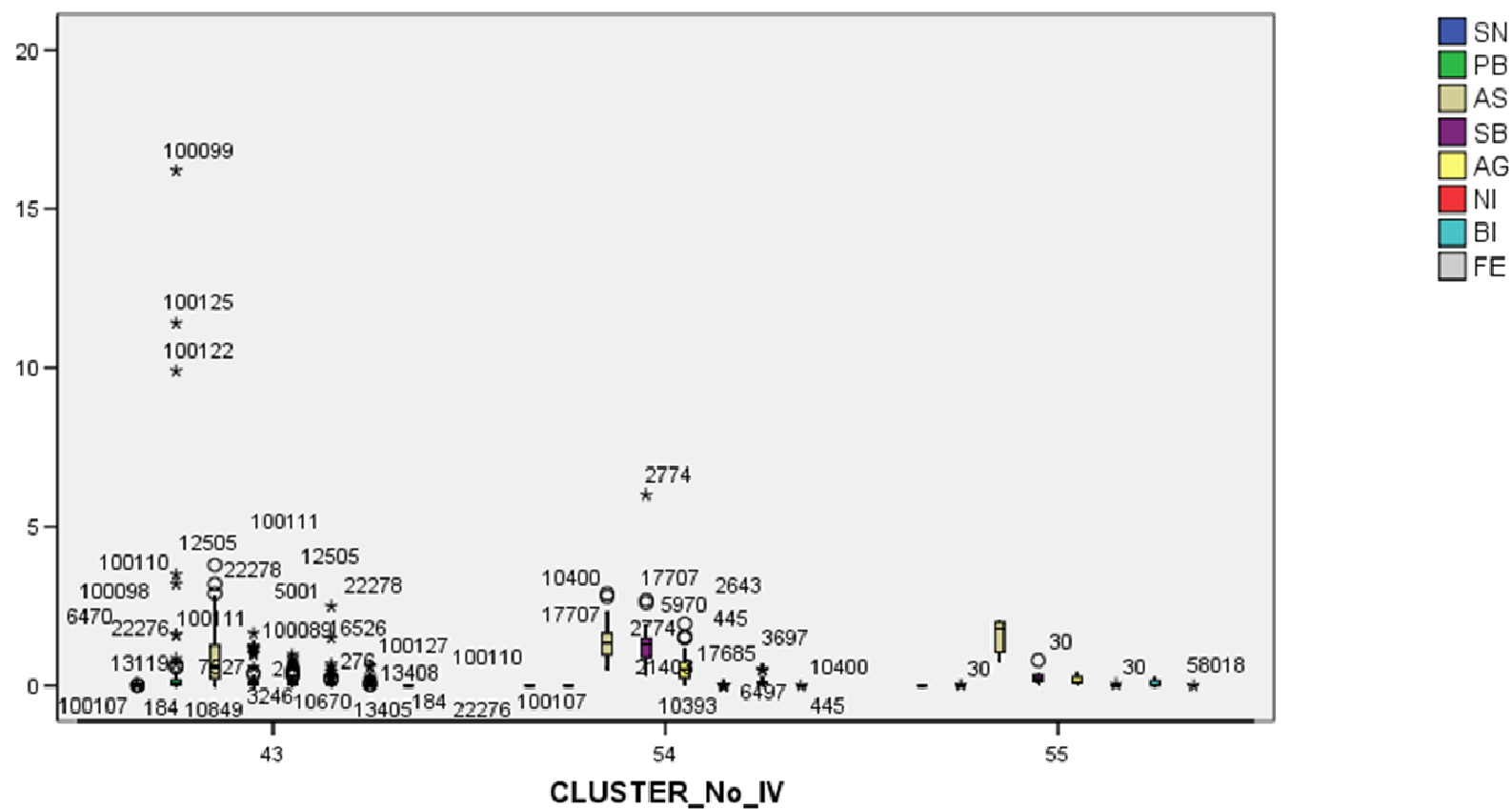
58) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 39



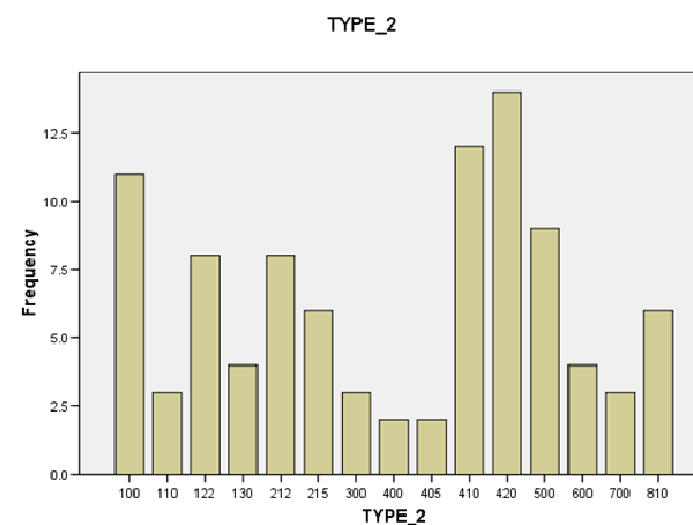
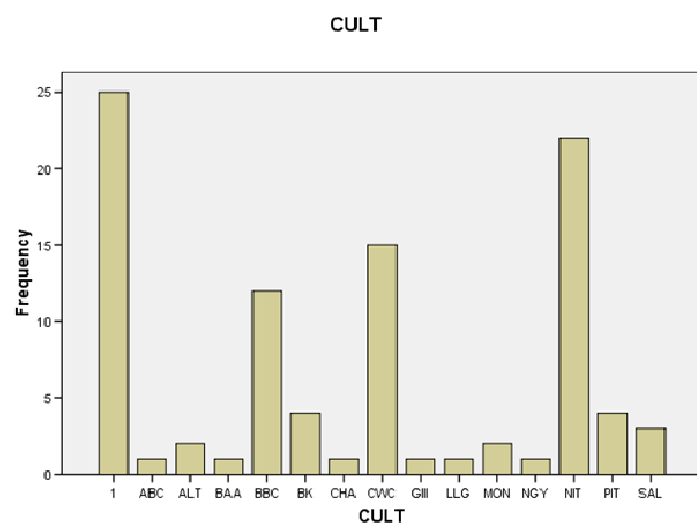
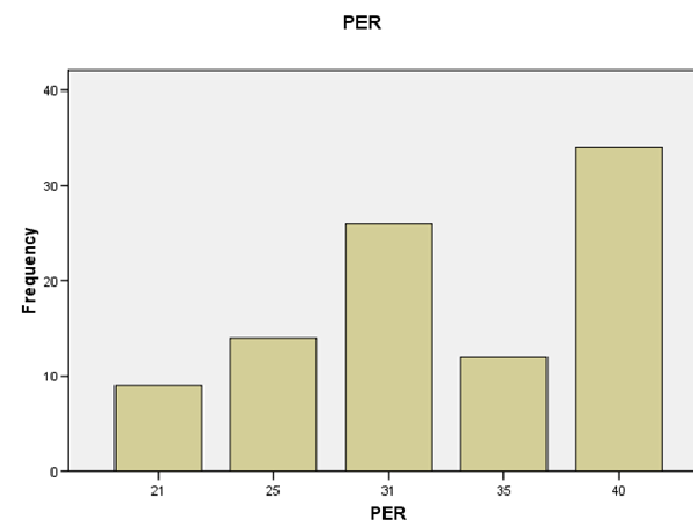
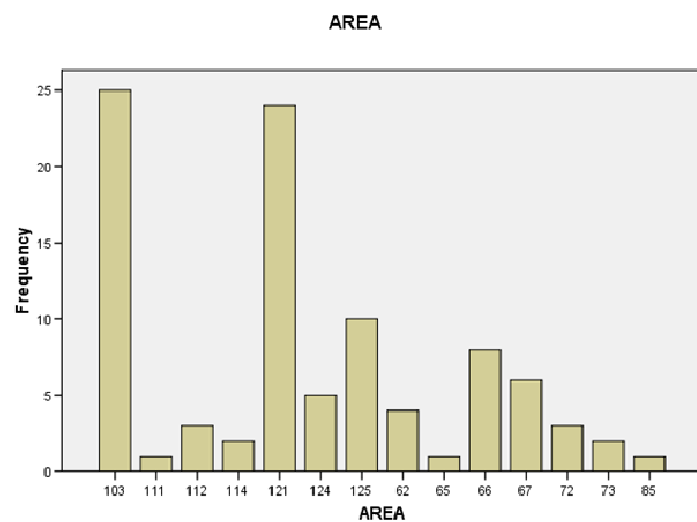
59) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 40



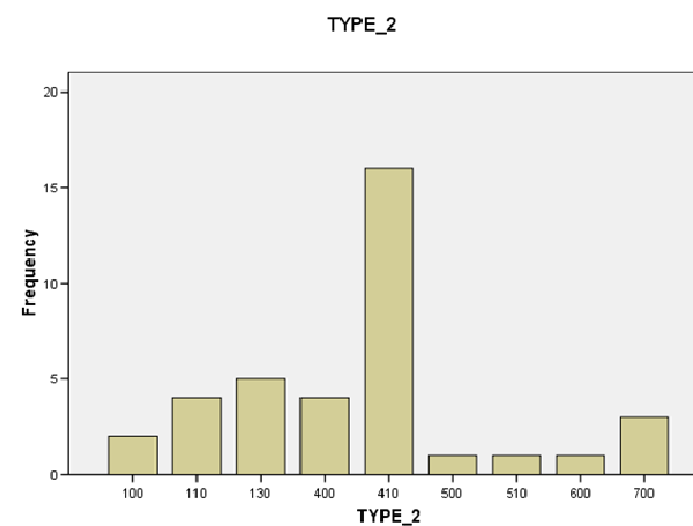
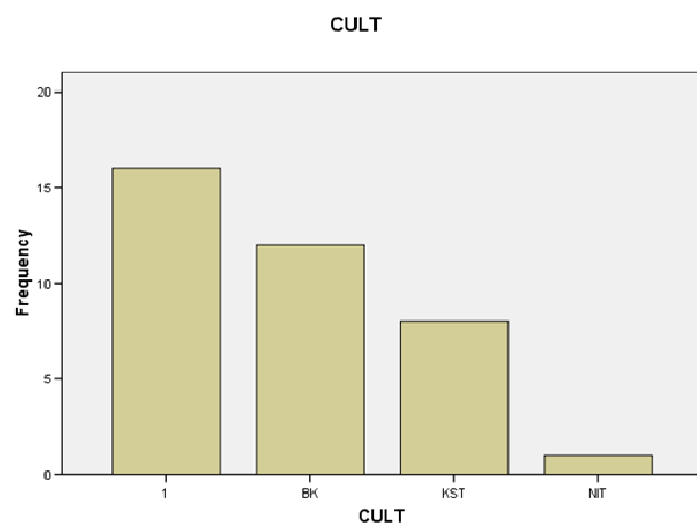
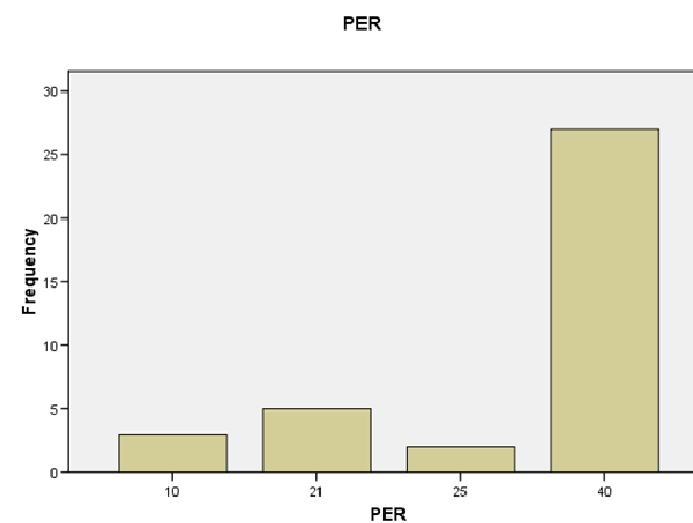
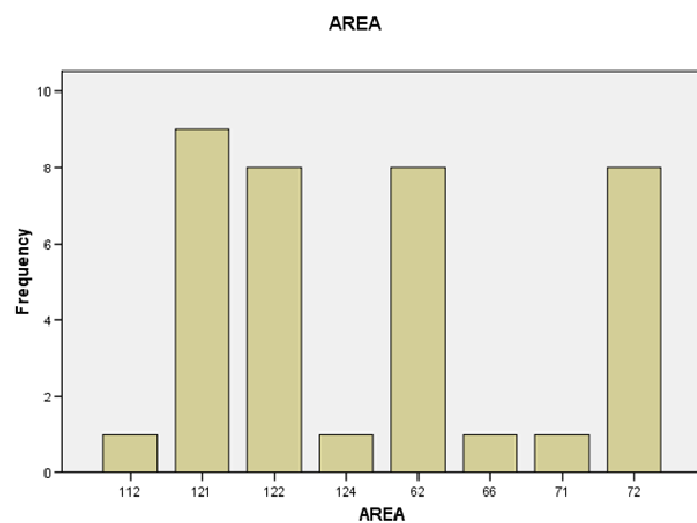
60) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 41



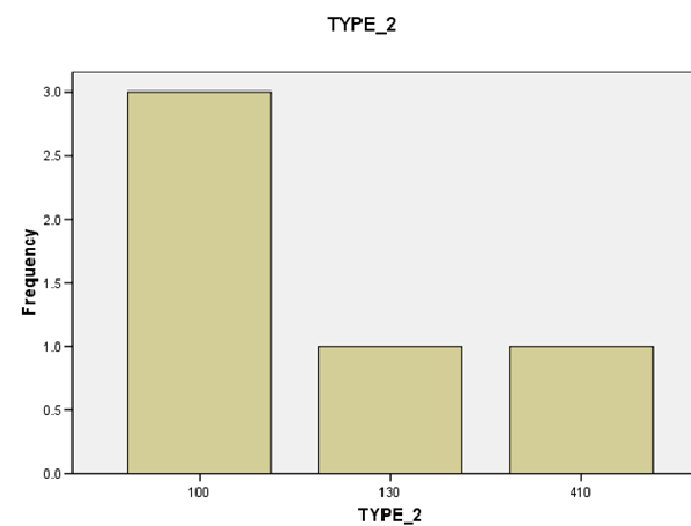
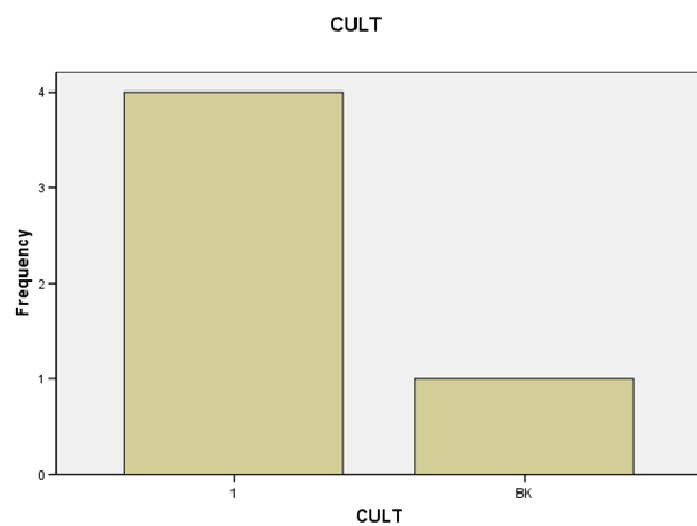
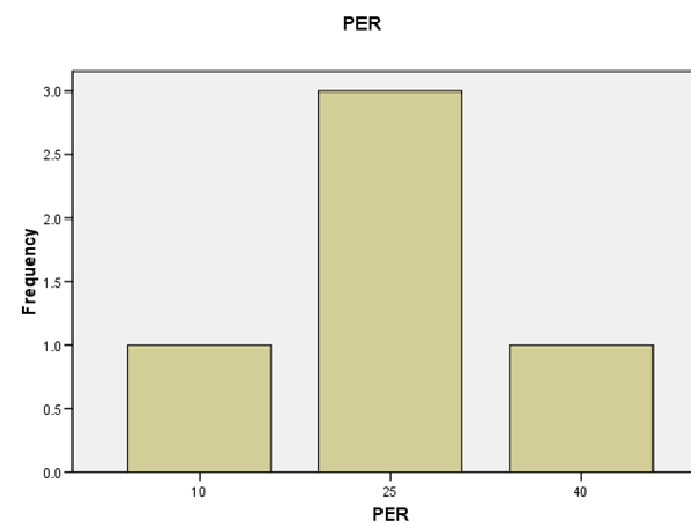
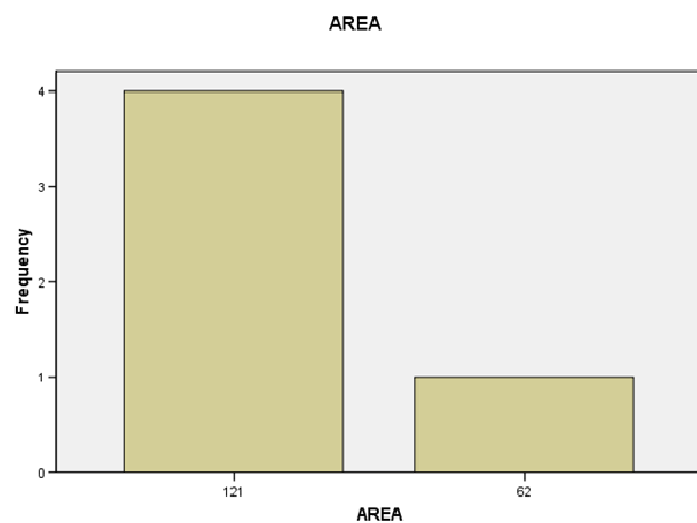
61) Box plots of the trace element compositions of the Clusters 43, 54 and 55 of Cluster Level IV and the SAM-groups (MG)



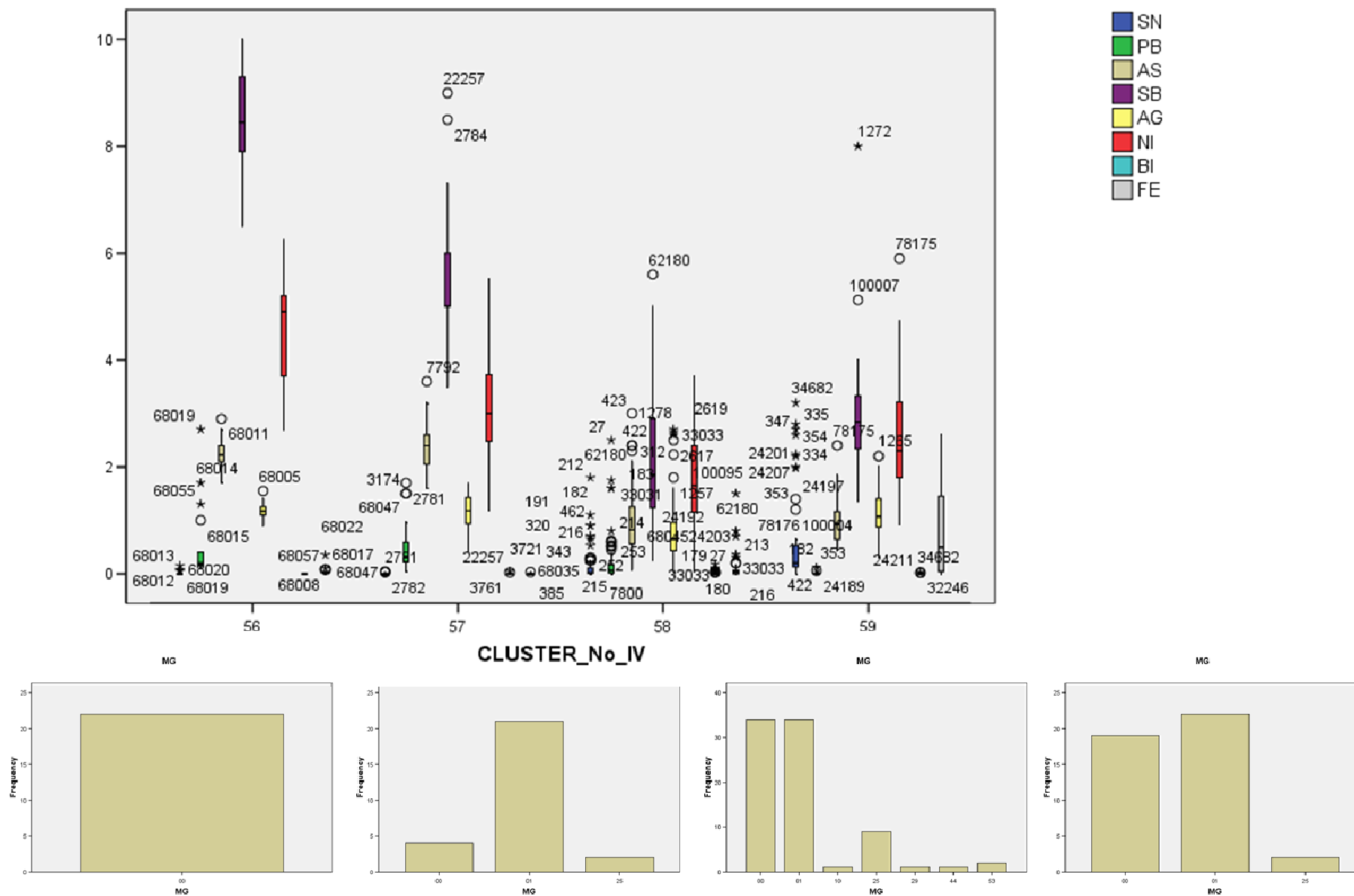
62) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 43



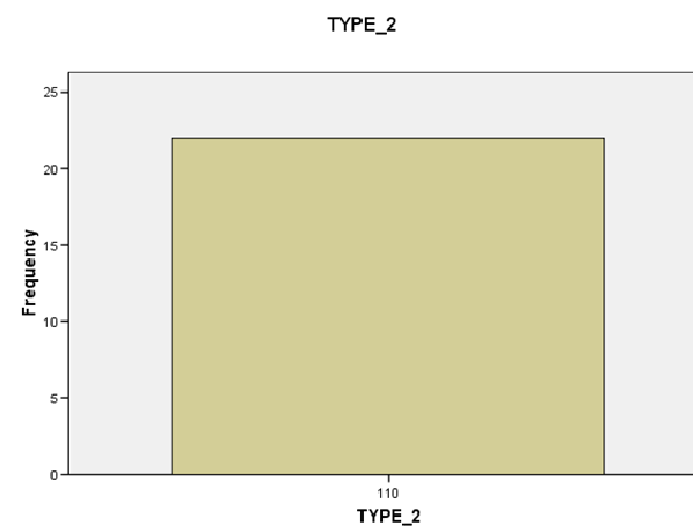
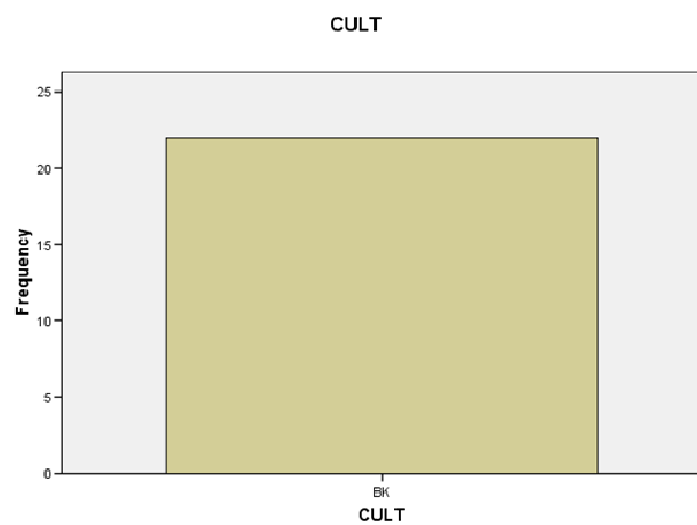
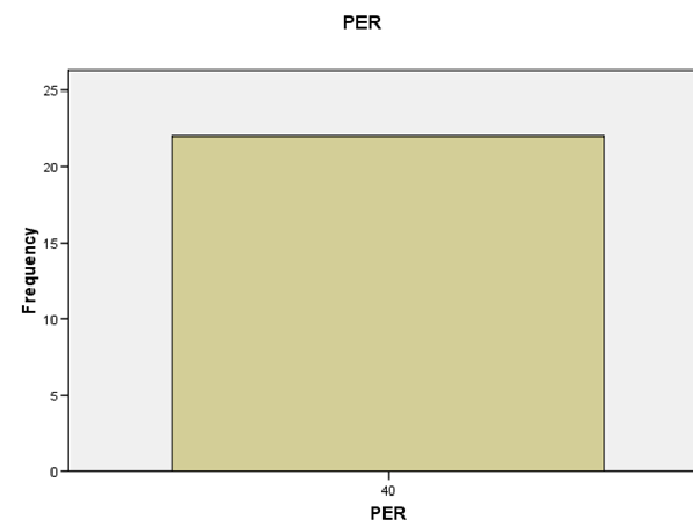
63) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 54



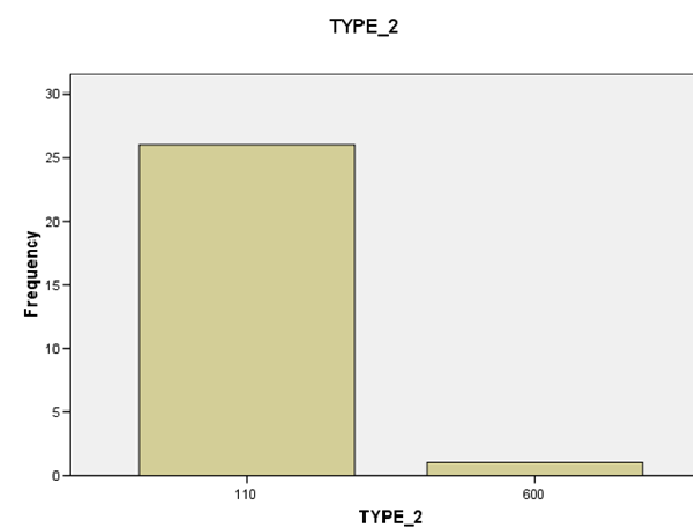
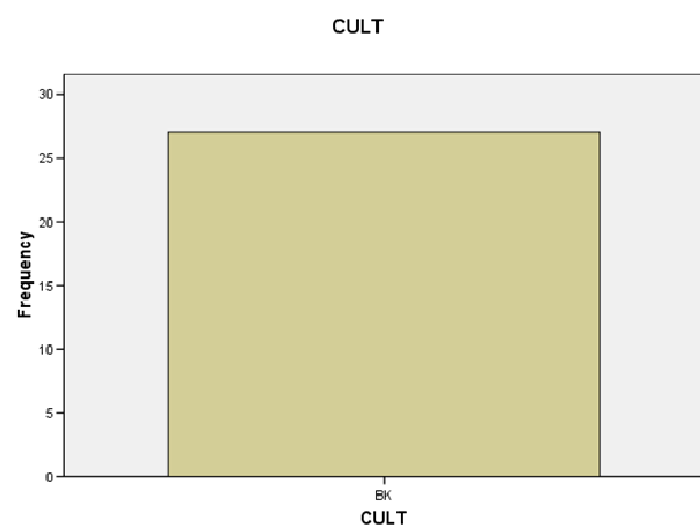
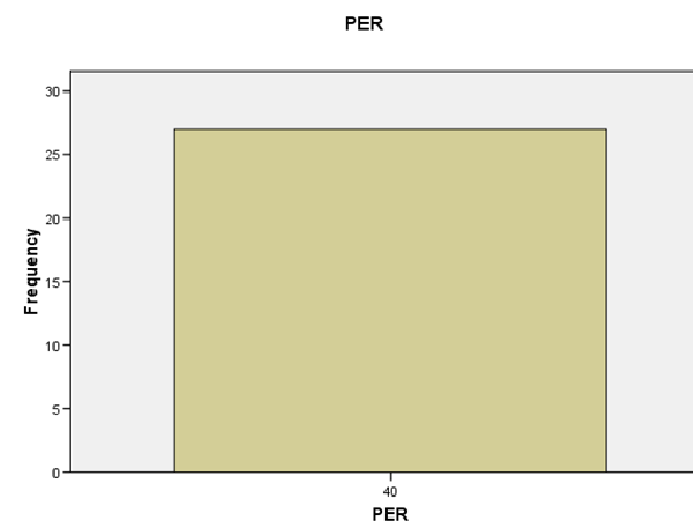
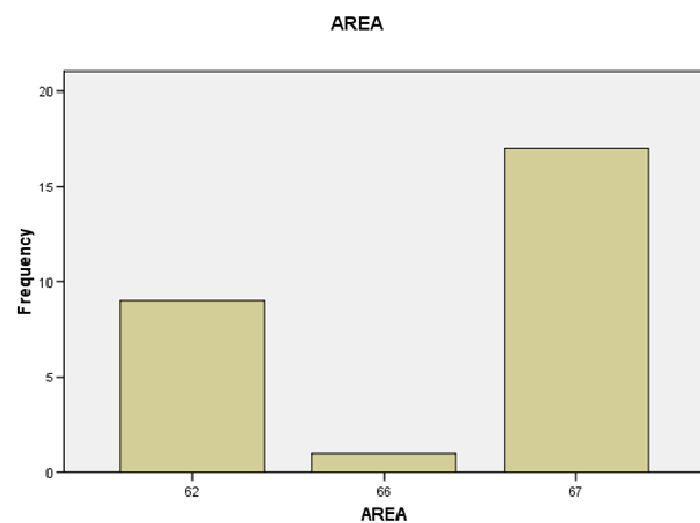
64) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 55



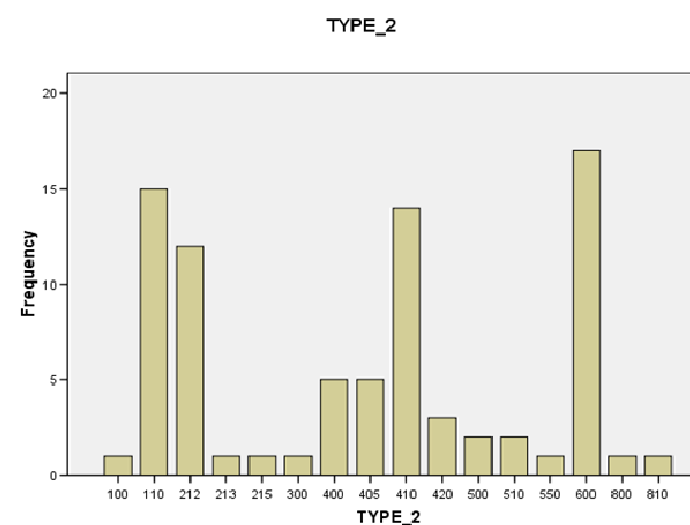
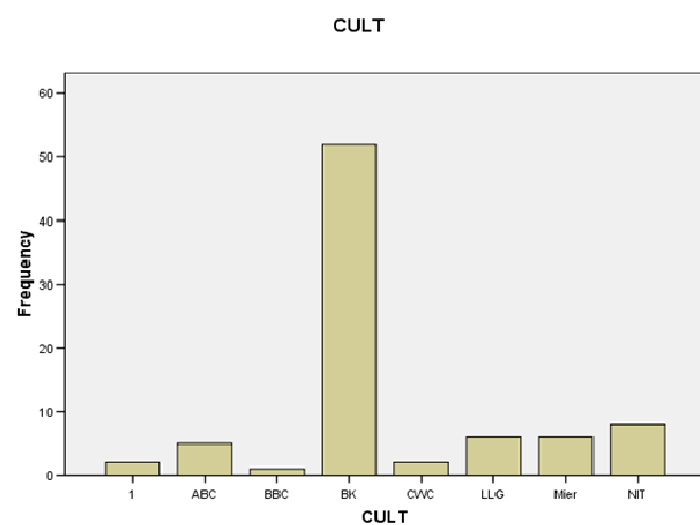
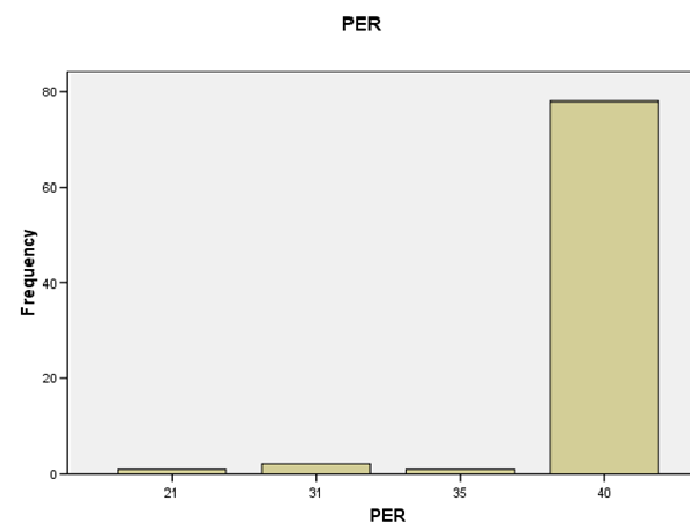
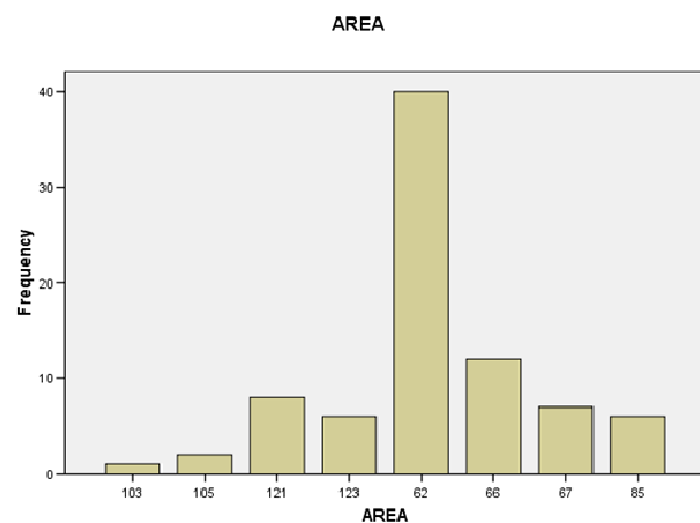
65) Box plots of the trace element compositions of the Clusters 56 — 59 of Cluster Level IV and the SAM-groups (MG)



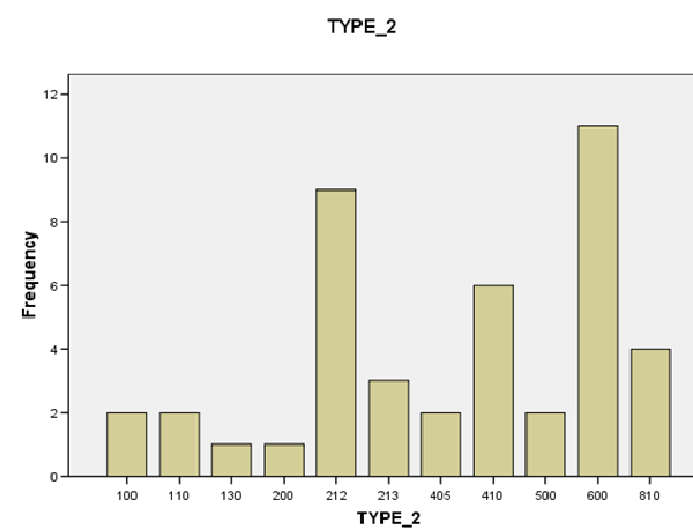
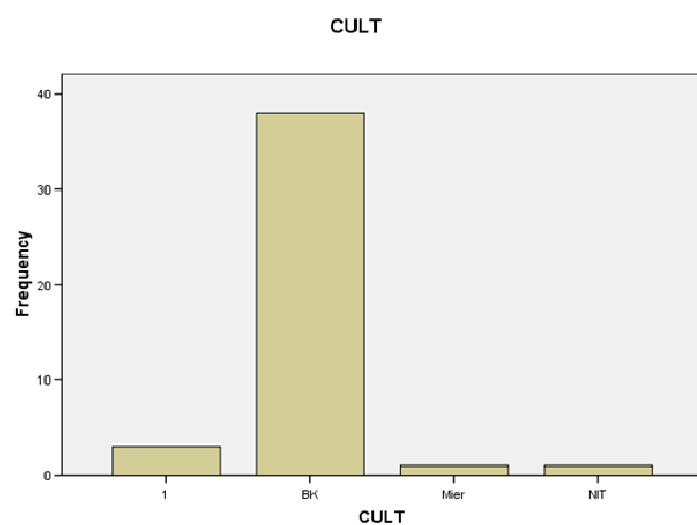
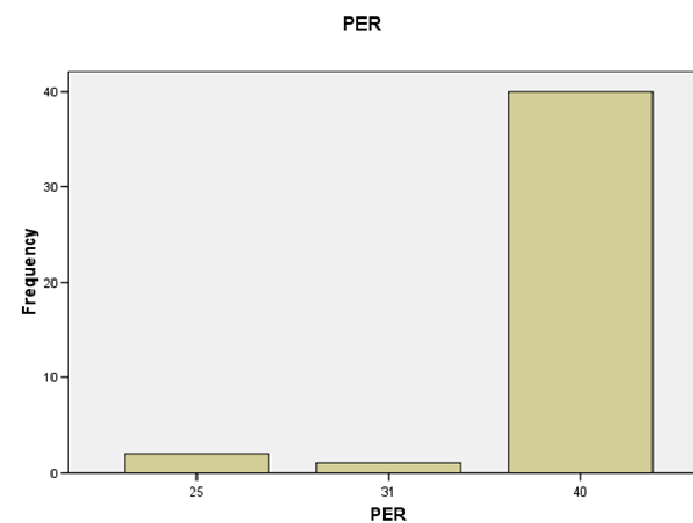
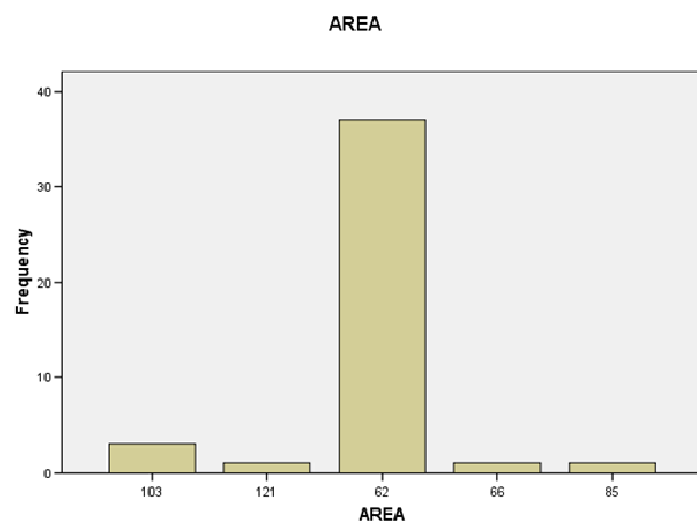
66) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 56



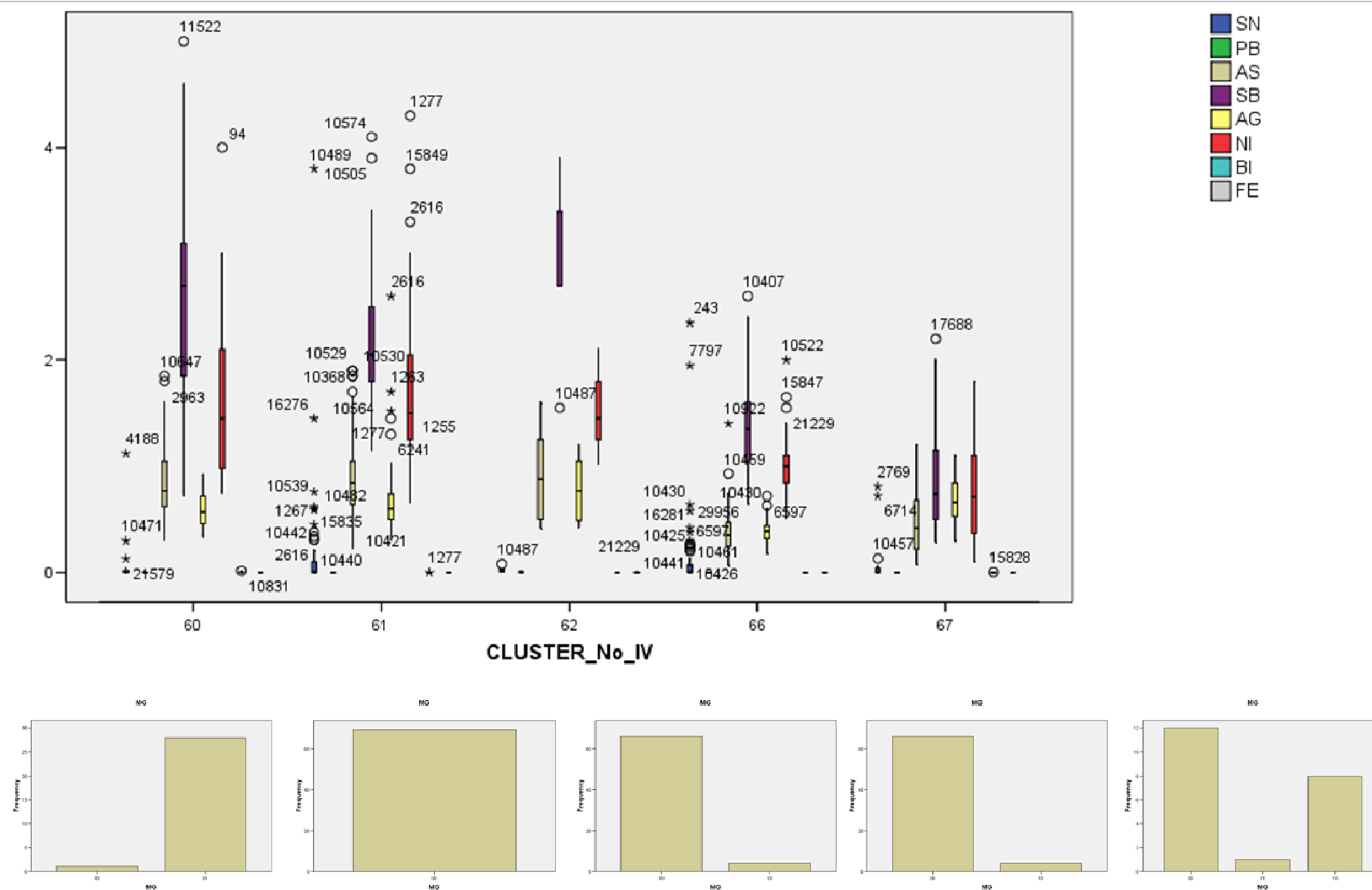
67) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 57



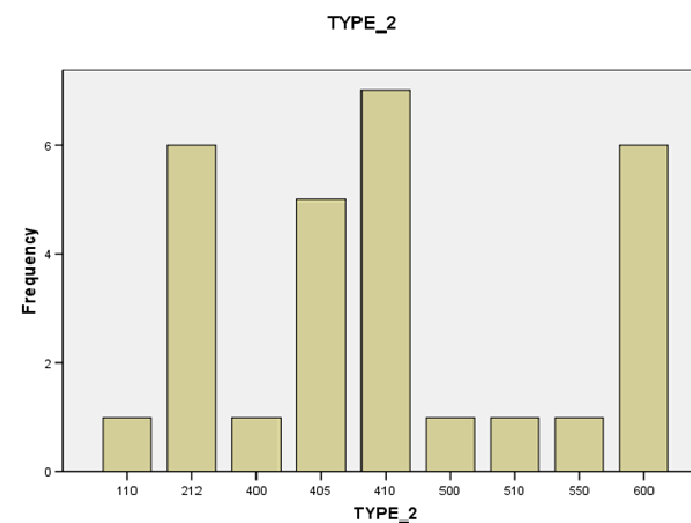
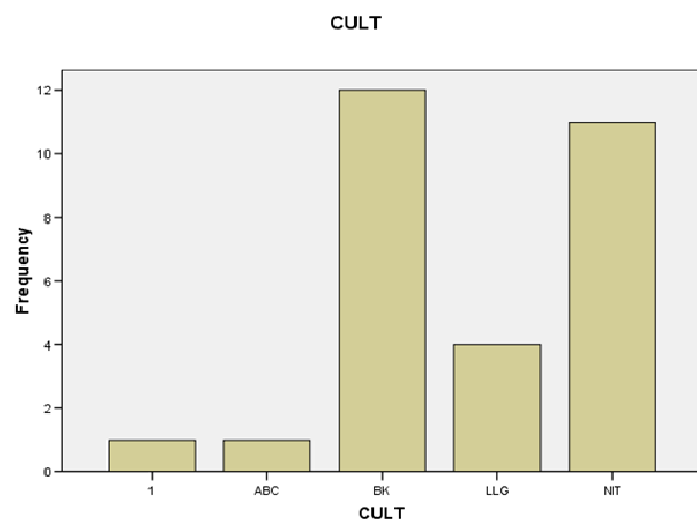
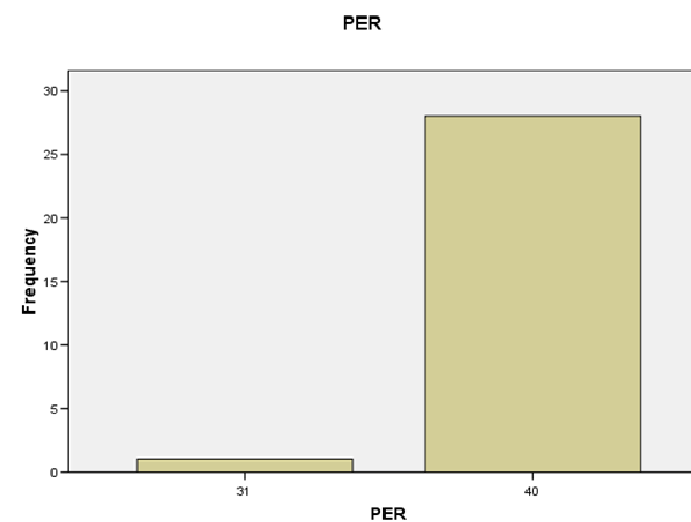
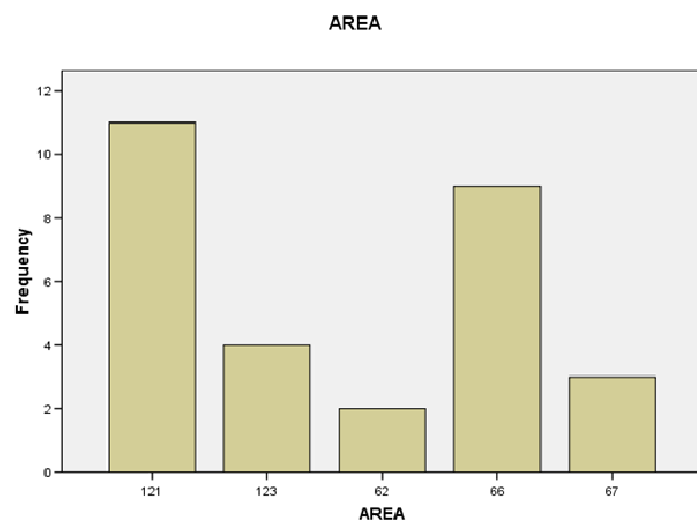
68) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 58



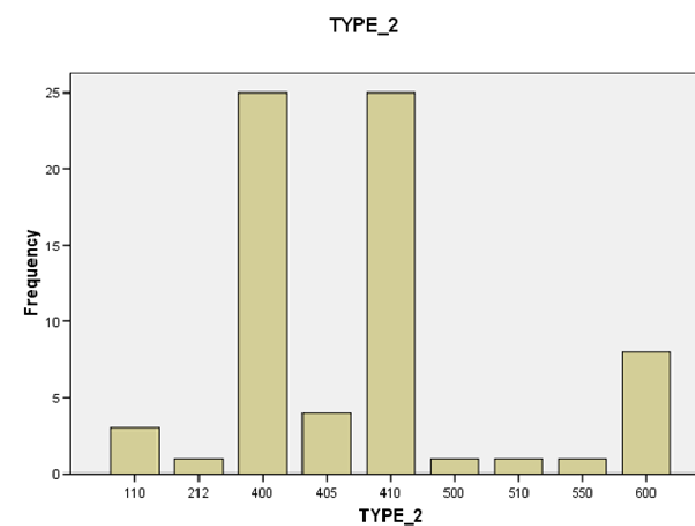
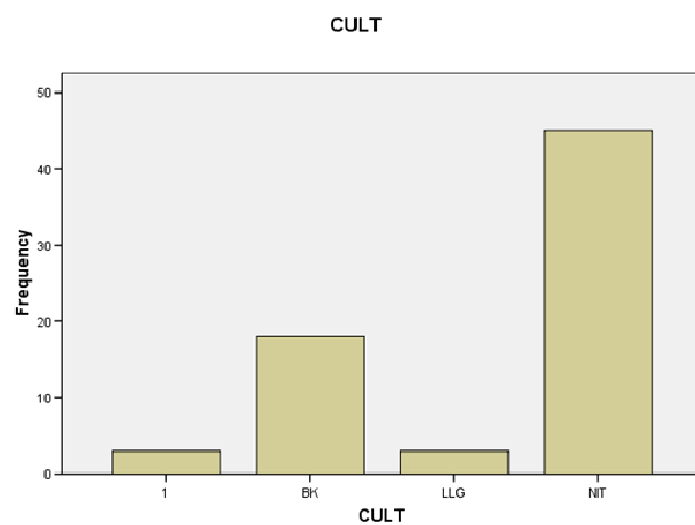
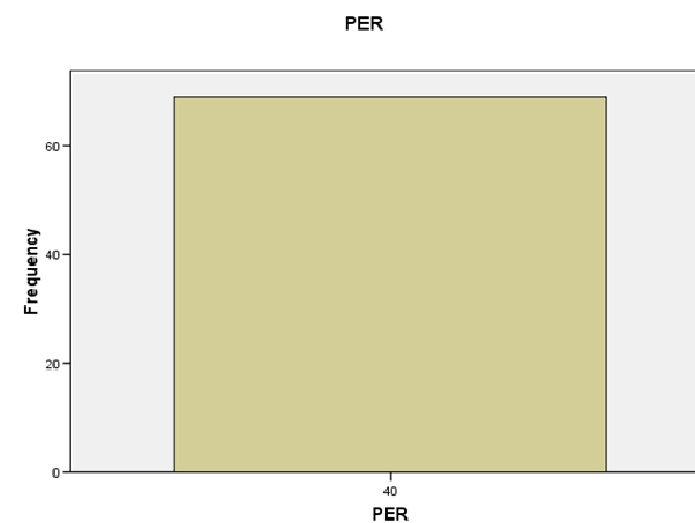
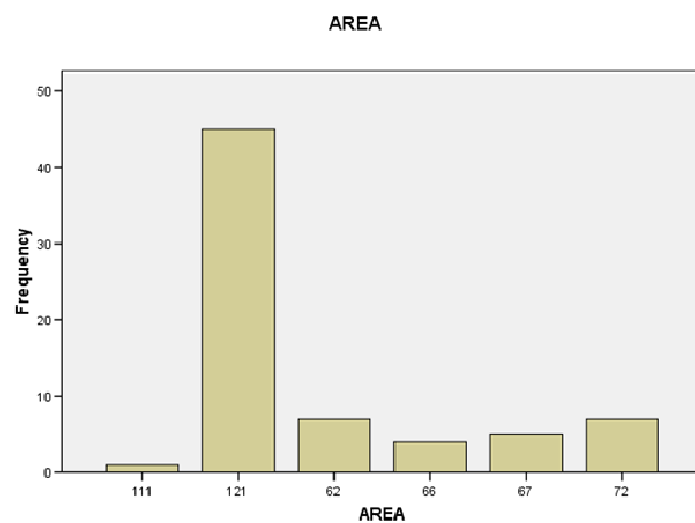
69) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 59



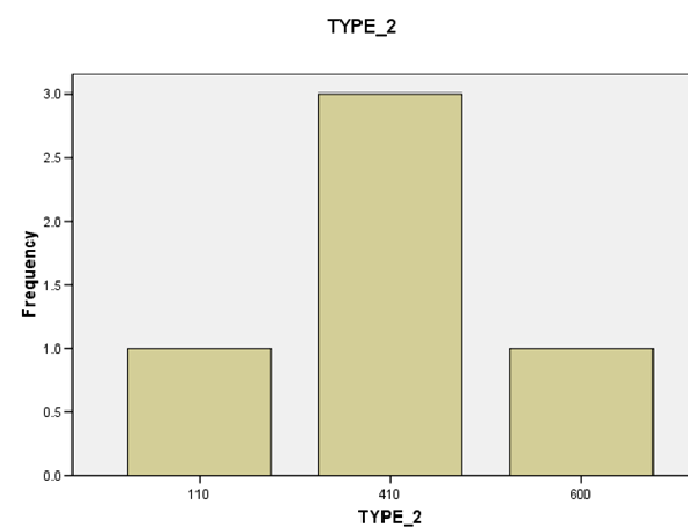
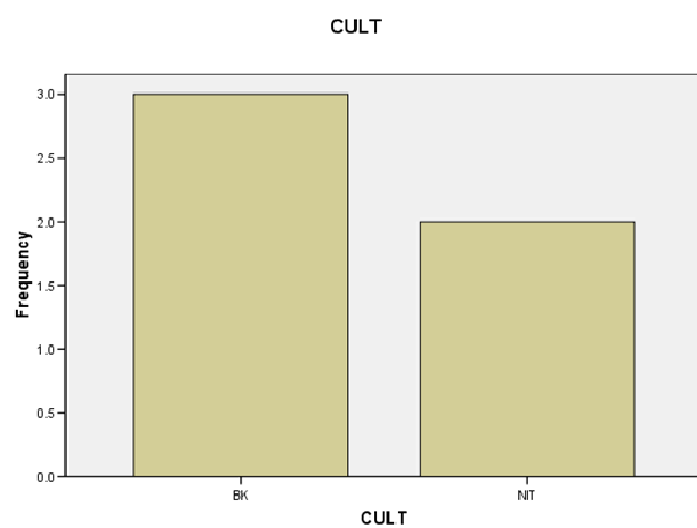
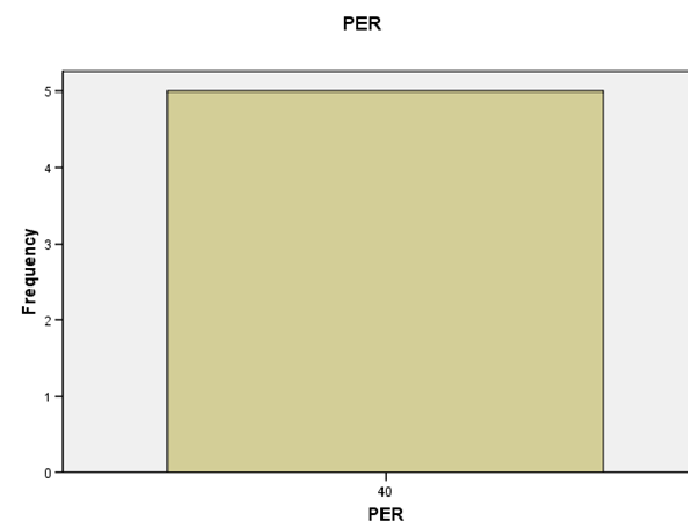
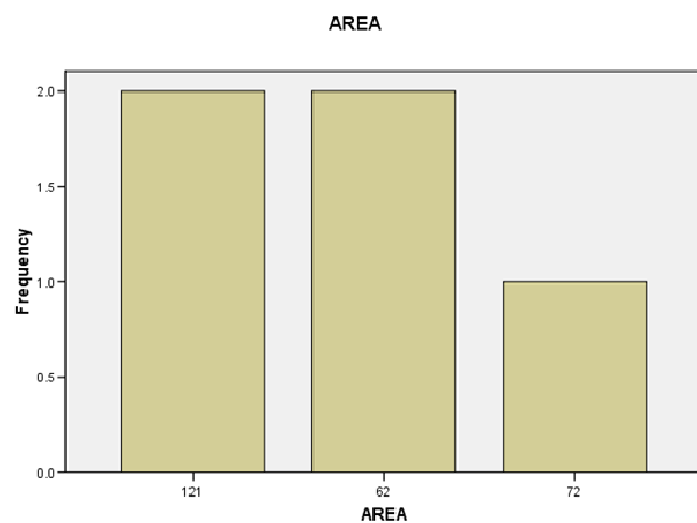
70) Box plots of the trace element compositions of the Clusters 60, 61, 62, 66 and 67 of Cluster Level IV and the SAM-groups (MG)



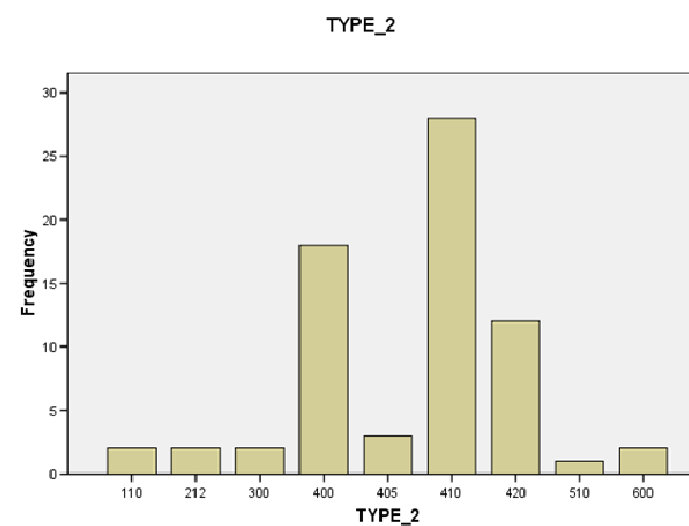
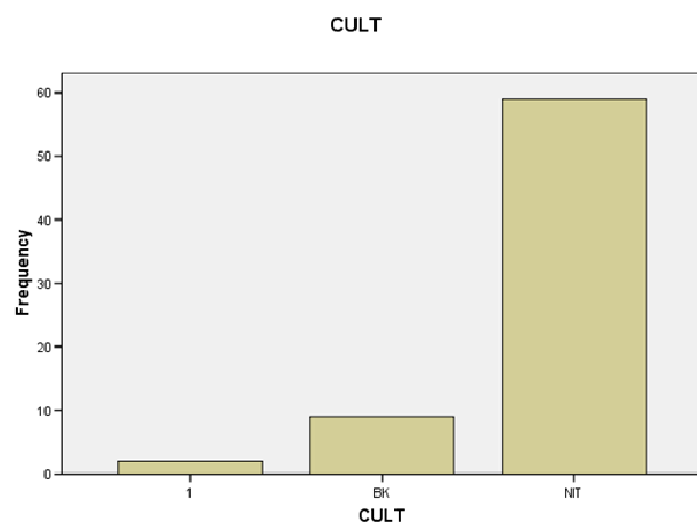
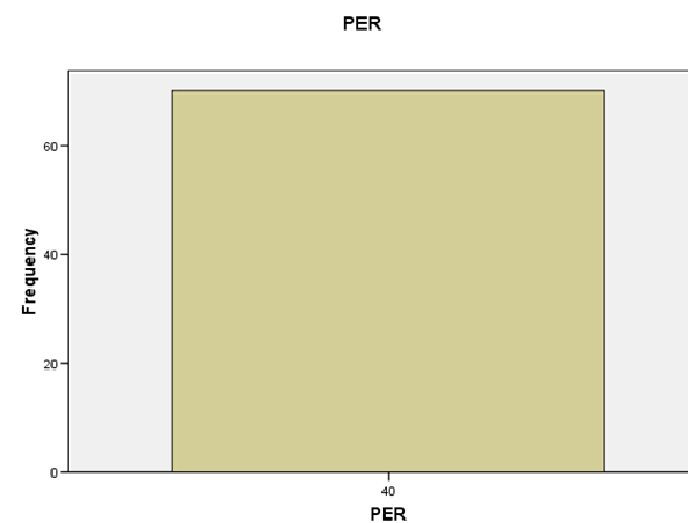
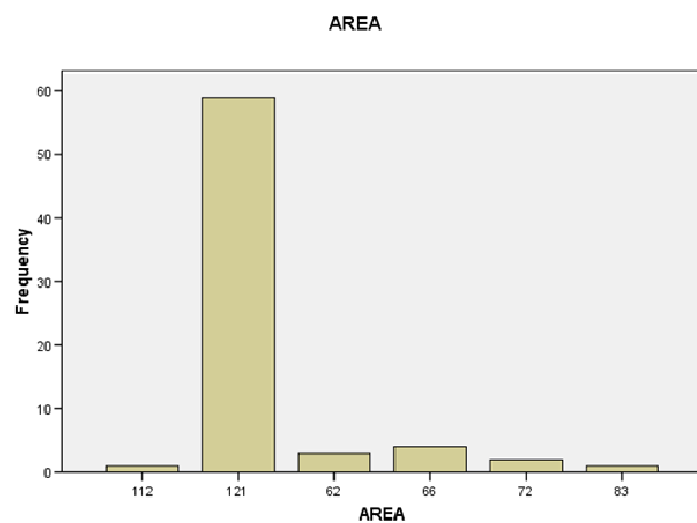
71) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 60



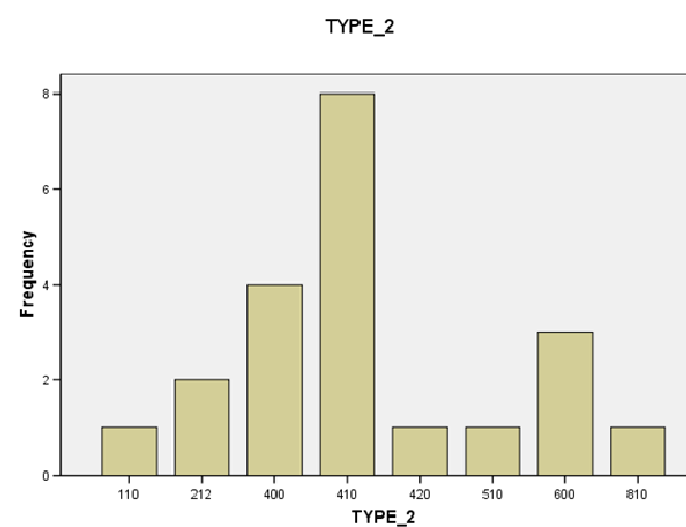
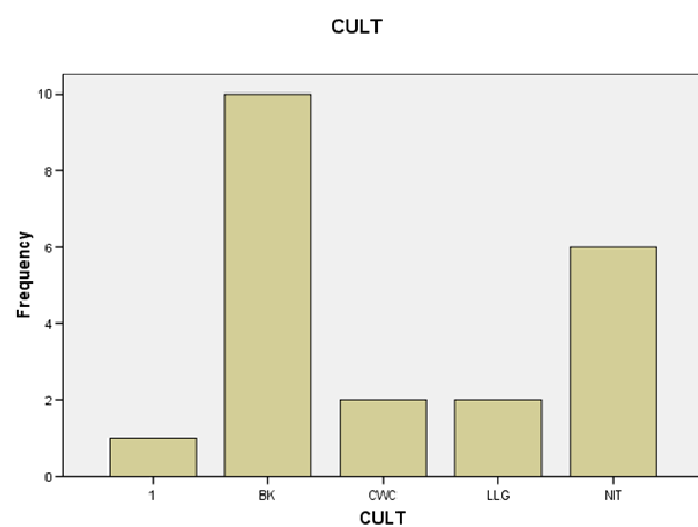
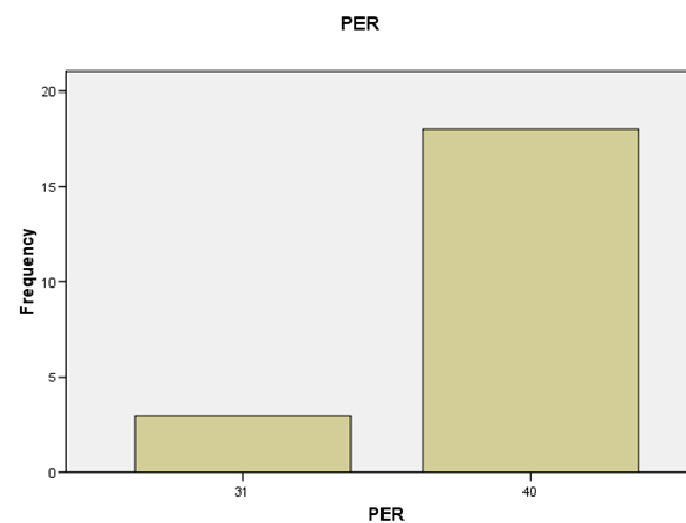
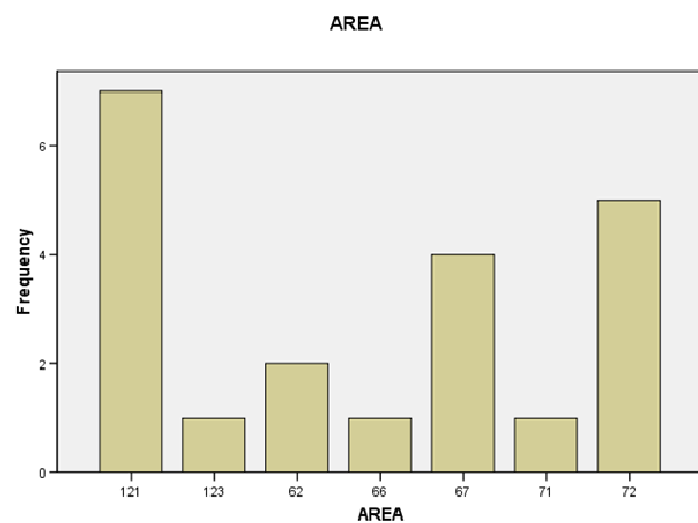
72) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 61



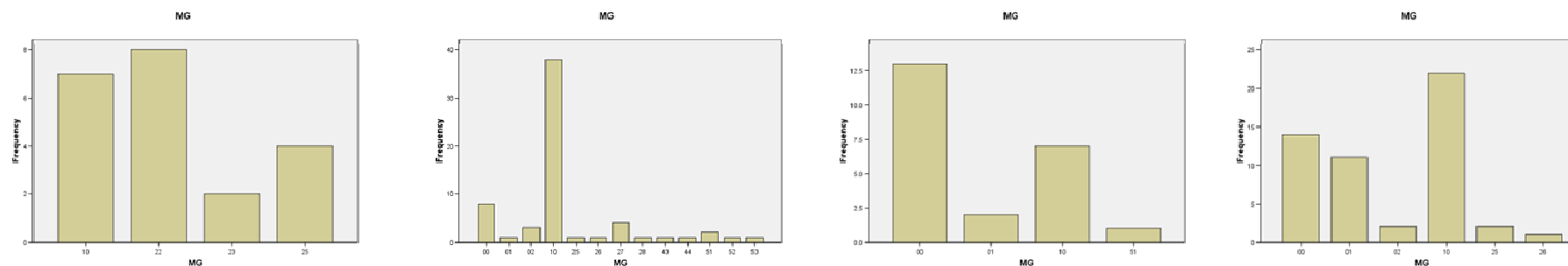
73) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 62



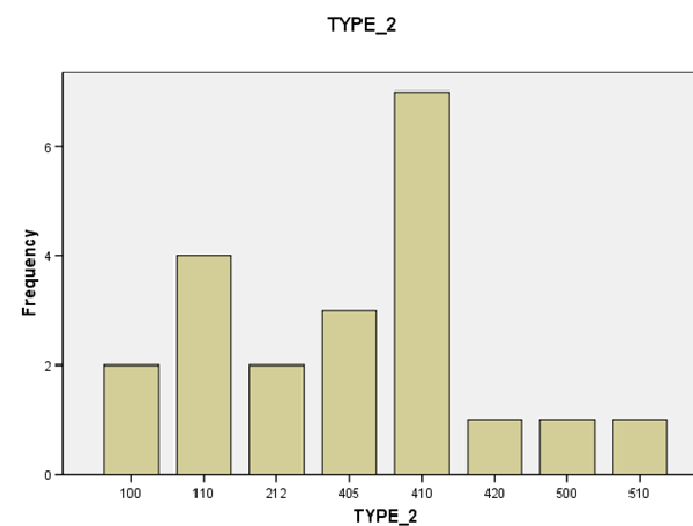
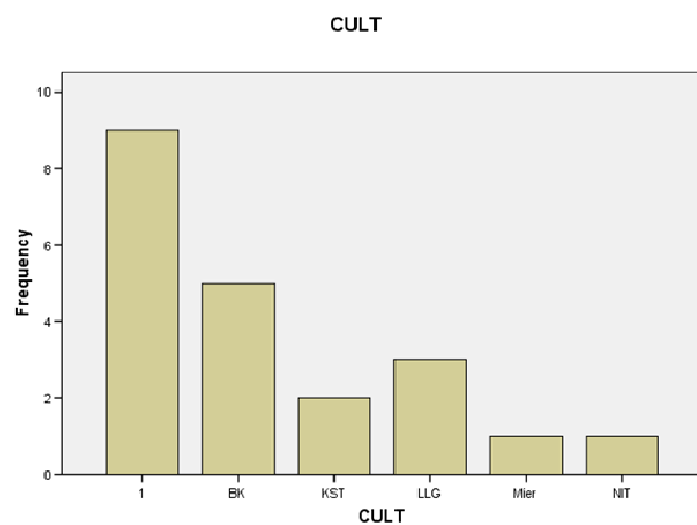
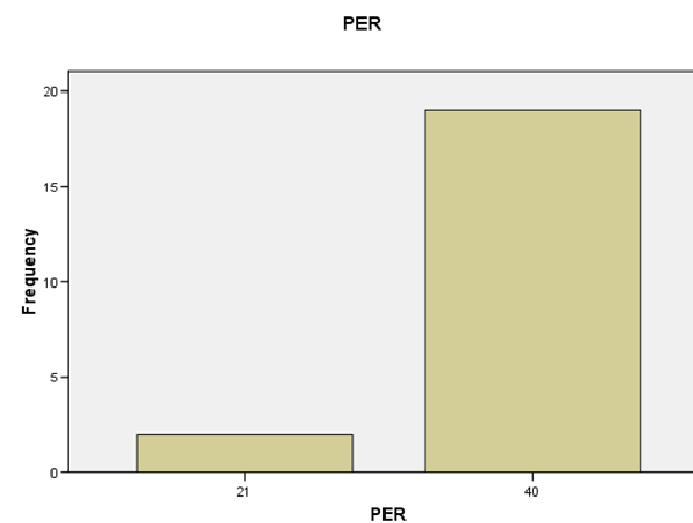
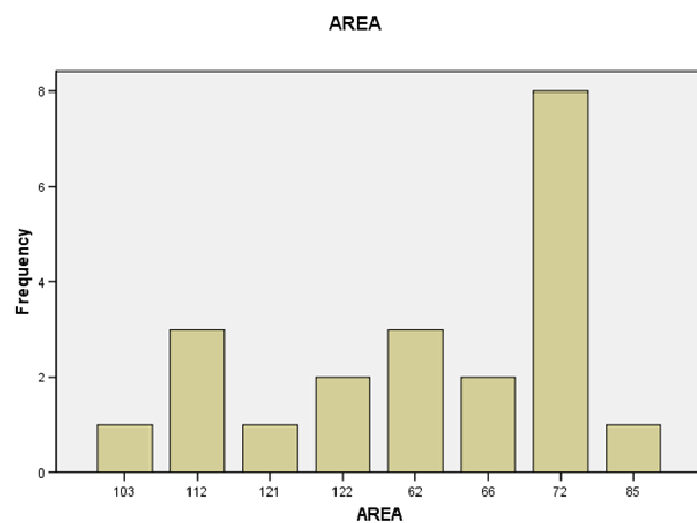
74) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 66



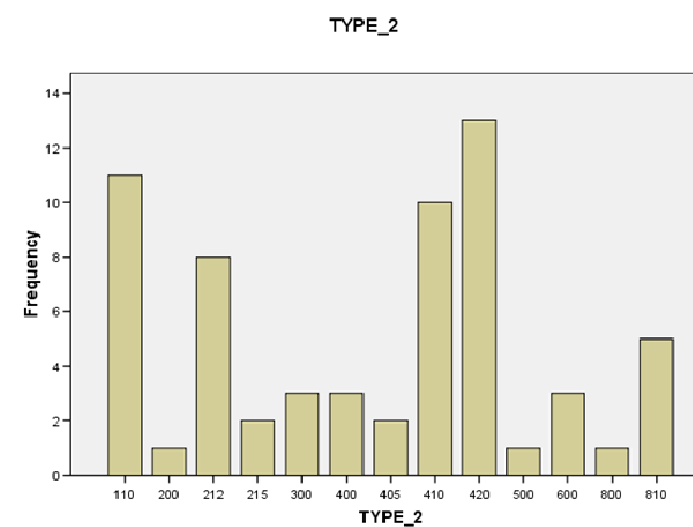
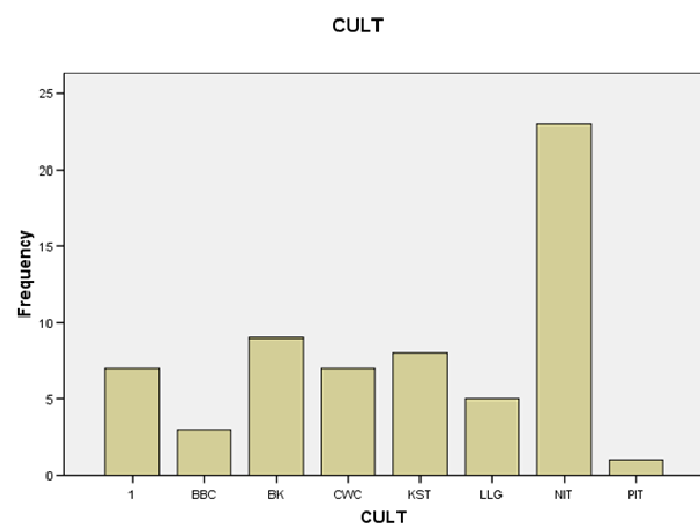
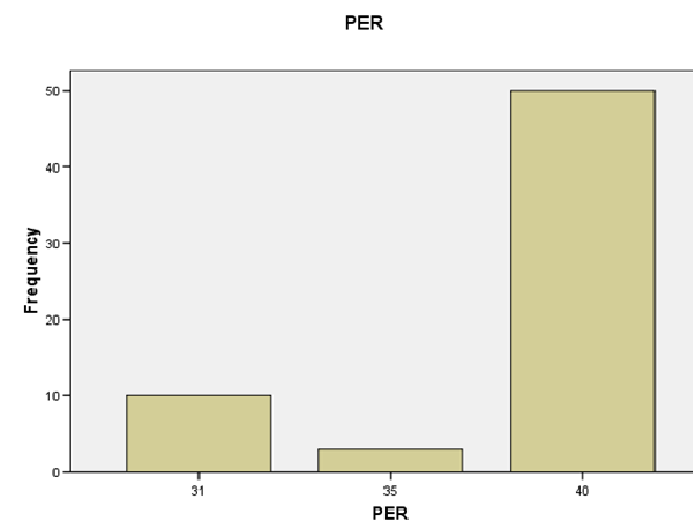
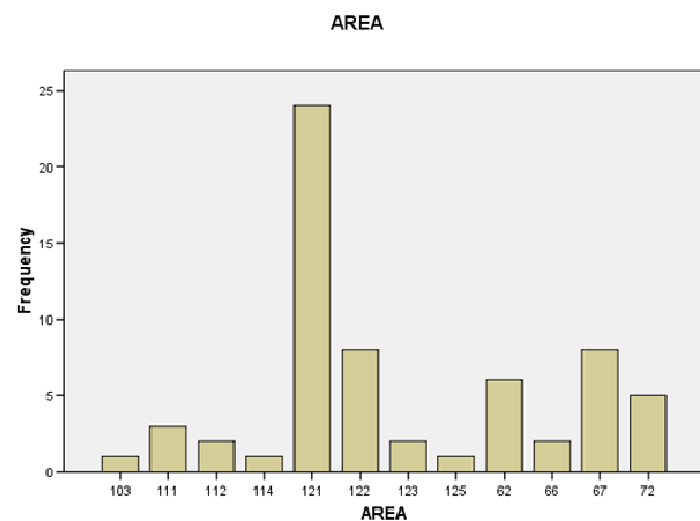
75) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 67



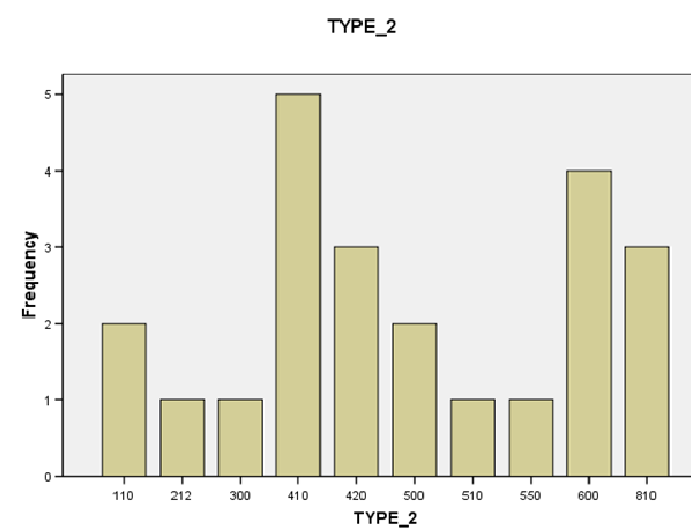
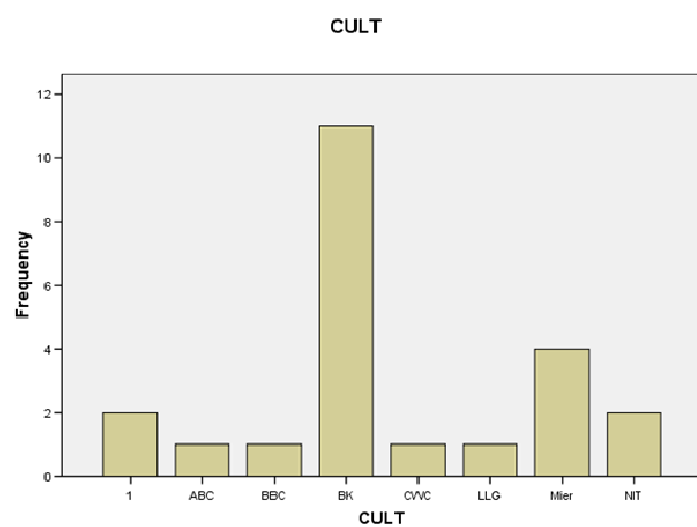
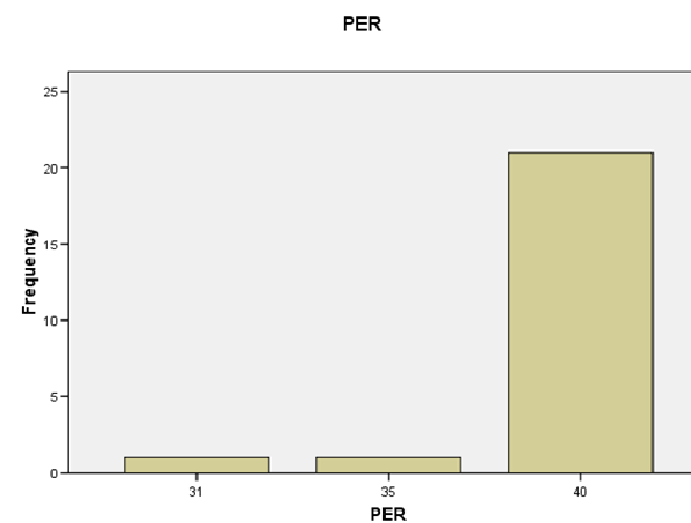
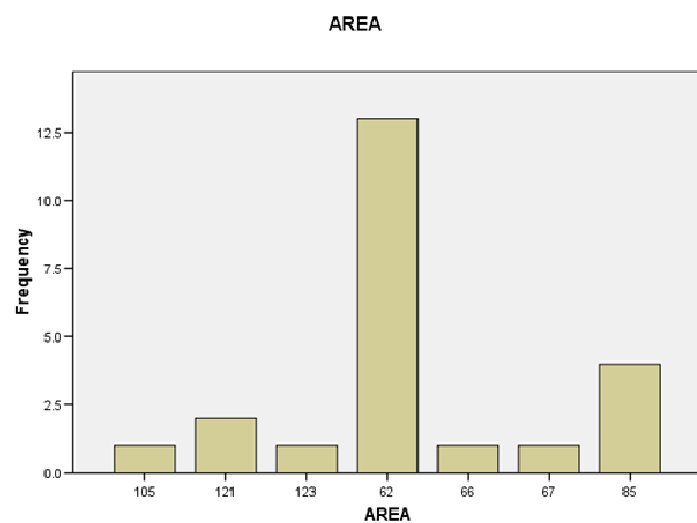
76) Box plots of the trace element compositions of the Clusters 68 — 71 of Cluster Level IV and the SAM-groups (MG)



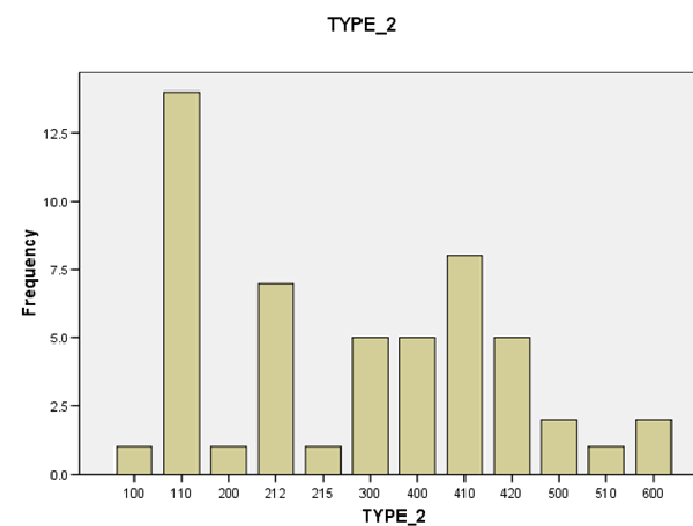
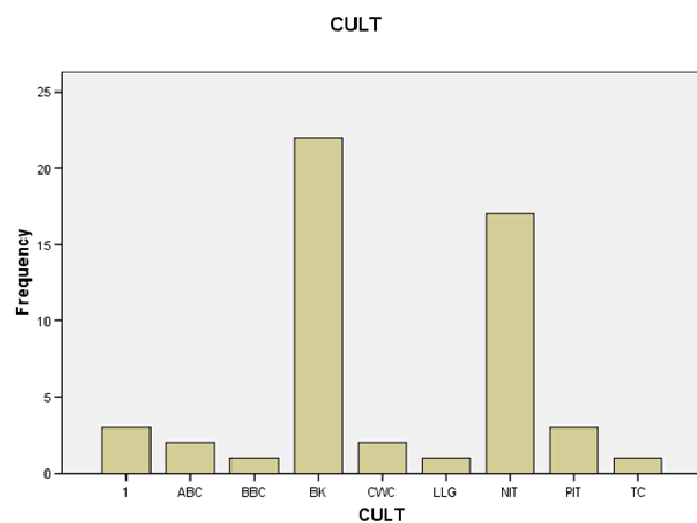
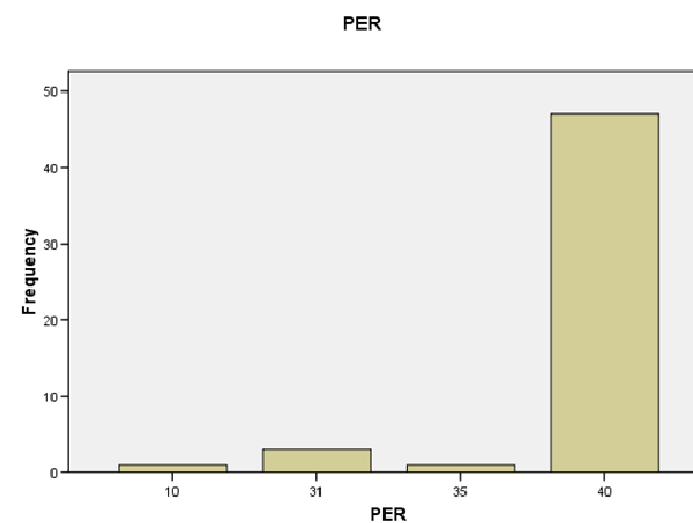
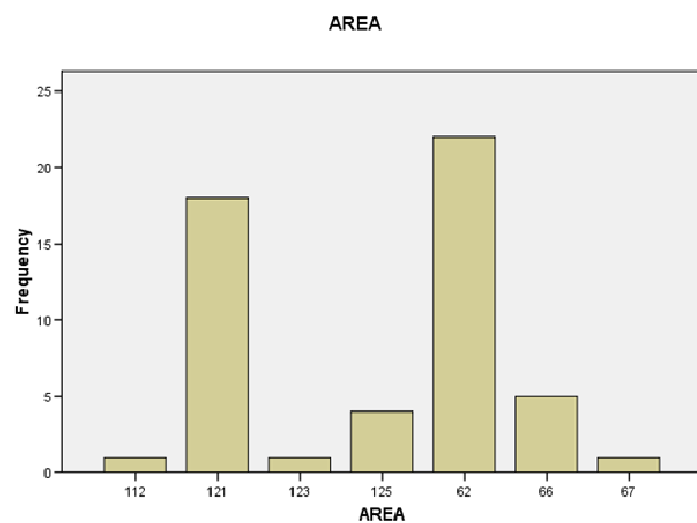
77) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 68



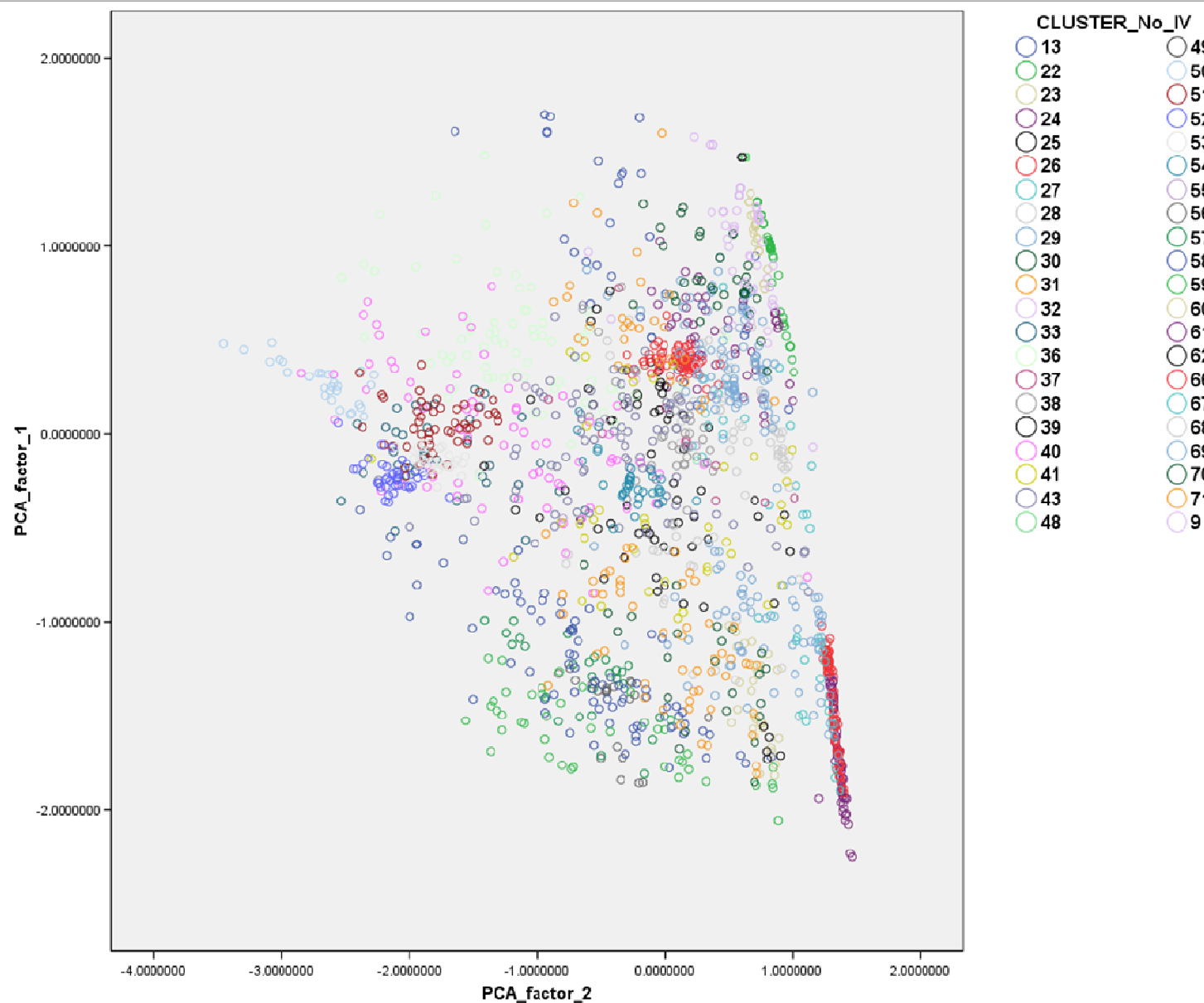
78) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 69



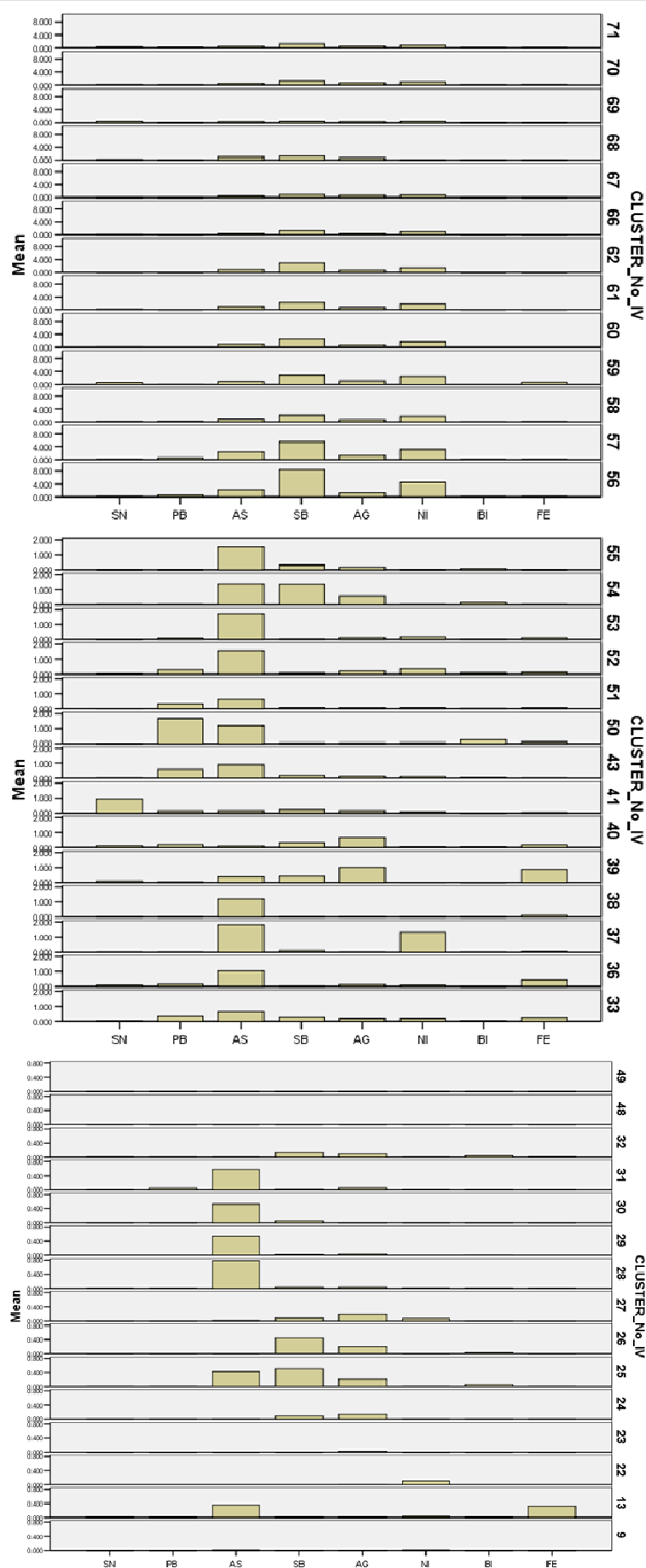
79) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 70



80) Regional, chronological, arch. cultural and artefact specific distribution of the trace element analyses contained in Cluster 71



81) Scatter plot of PCA including the entire database displaying the Clusters 9, 13 and 22 — 71 of Cluster Level IV



82) Comparison of the mean values of of all trace elements within the clusters of Cluster Level IV (with different scales)