



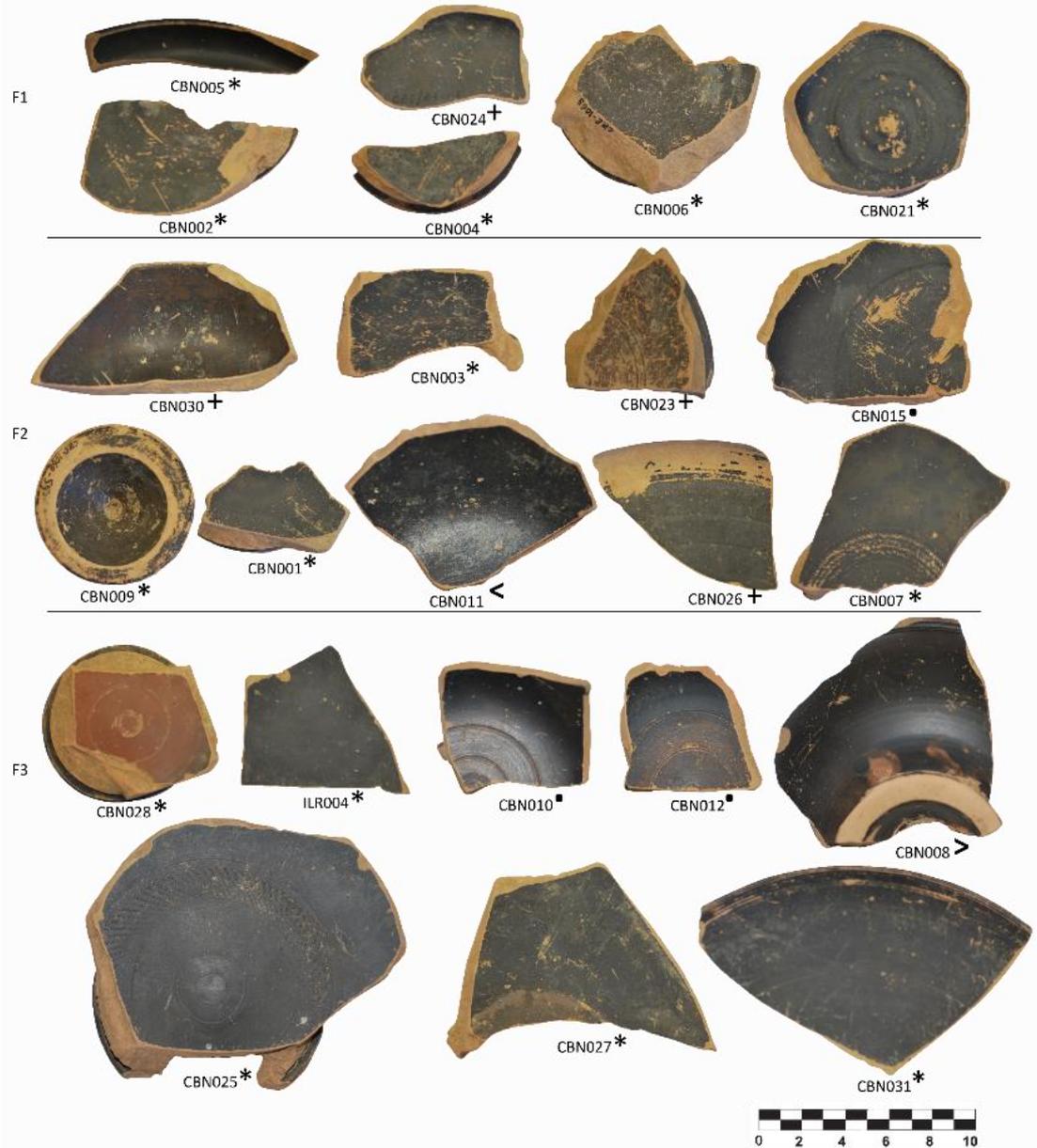
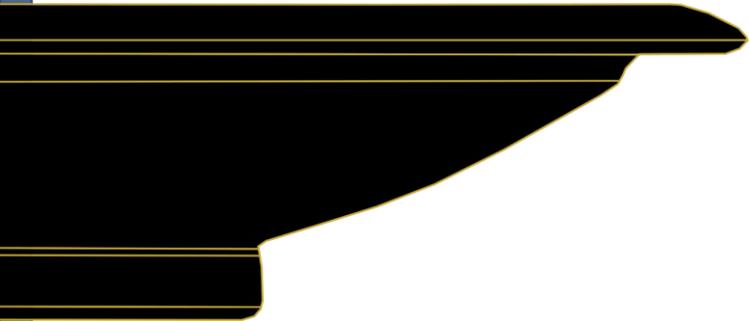
SUPPLYING BLACK GLOSS POTTERY TO THE CITIES OF NORTHEASTERN HISPANIA DURING THE LATE REPUBLIC: AN ARCHAEOMETRIC APPROACH



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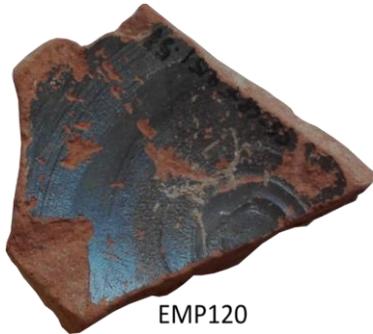
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Archaeological classification since 1952 for the Black Gloss in the Iberian peninsula (revised for Campanian B oide at the end of the XX c. / beginning of the XXI c.

Campanian A (middle, late) (Origin: Naples)



EMP120

Campanian B (Origin: Etrurian)



Campanian B oide (origin: ?)



Cales ancient/early;

Cales middle;

Cales late



EMP121



Campanian C (origin: Sicily)

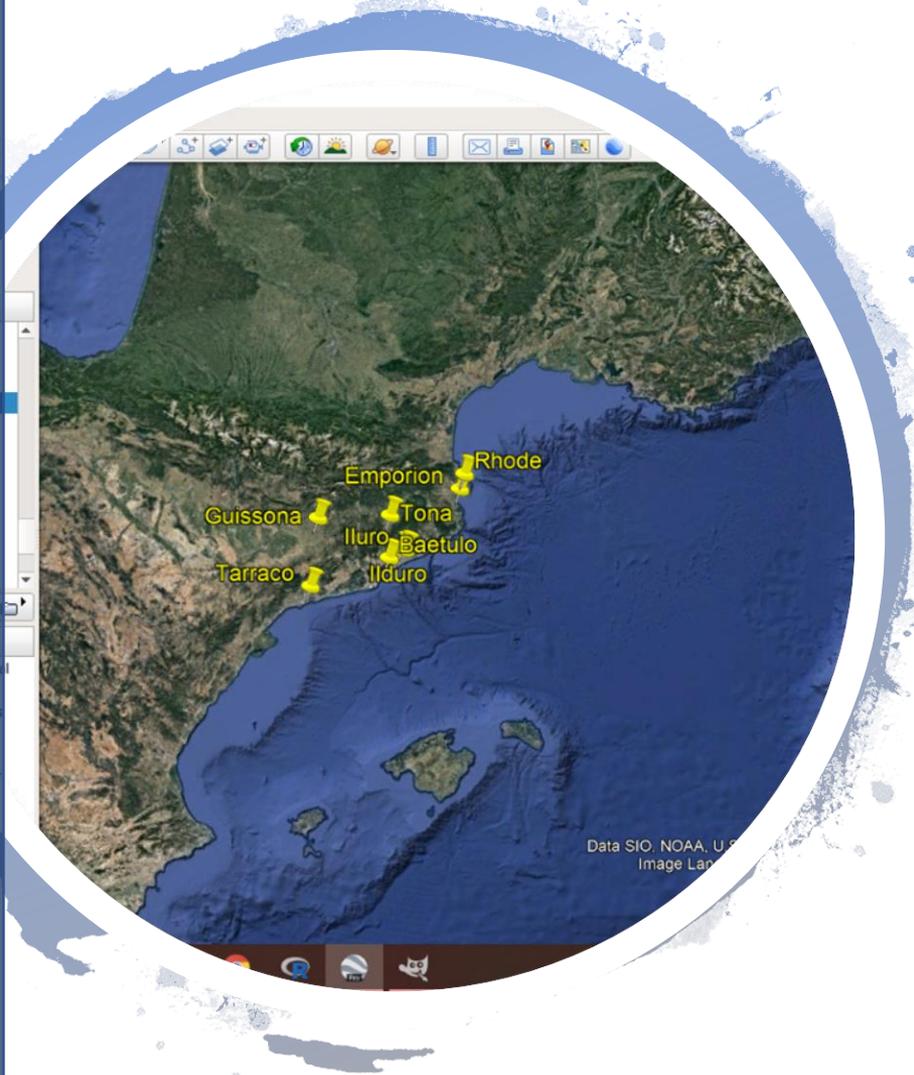




- **1st phase:** An Archaeometric study on Campanian Black Gloss Pottery from NE *Hispania* (yellow)
- **2nd phase: MedConTaCCt:** Mediterranean Connectivity Trade and Commercial Circuits in the Roman West (2nd c. BCE - 1st c. CE) (blue)



The aim of this project is to contribute to a better understanding of the Campanian pottery distributed in northeastern *Hispania* by means of a systematic archaeological and archaeometric programme

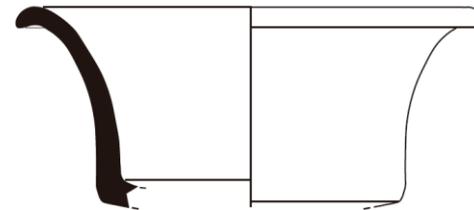


• **1st phase:** Archaeometric study on Campanian Black Gloss Pottery from NE Hispania

- **29 Emporion**
- **67 Ilduro**
- **16 Iluro**
- **14 Turó d'en Boscà**
- **13 Baetulo**
- **32 Tarraco**

- **30 Ileso (Guissona, in progress)**
- **30 Tona (in progress)**

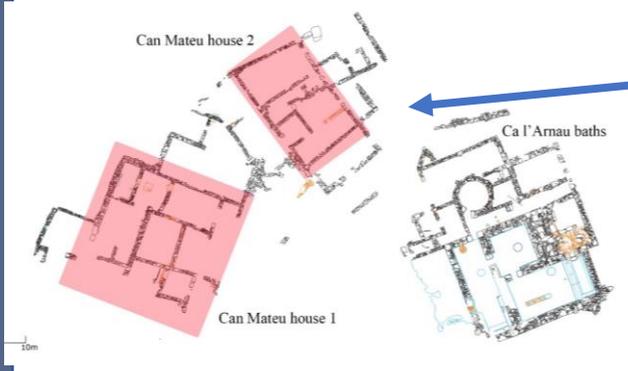
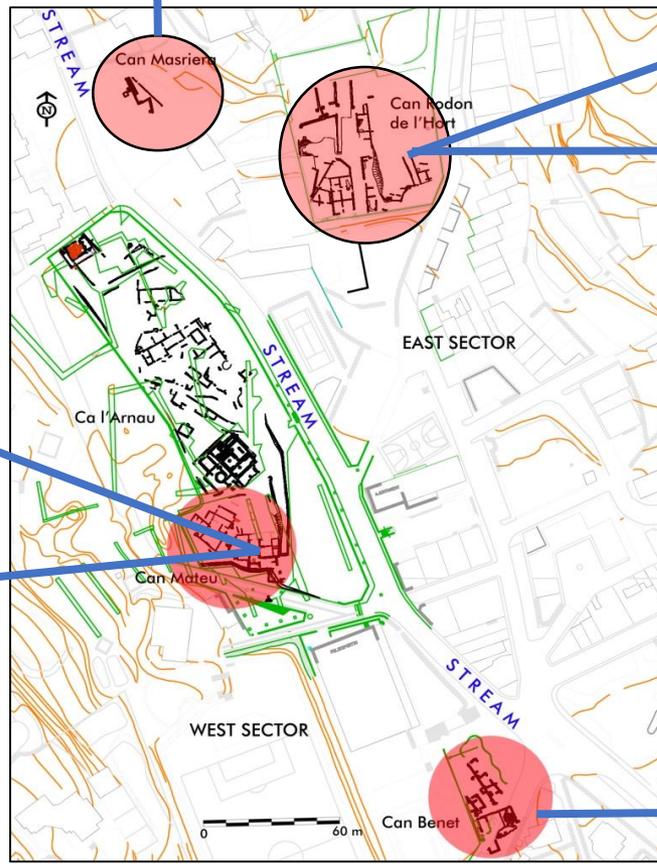
TOTAL: 171 + 60 = 231



Vernis Negre B
Lamb. 2 = F1222



Ilduro (mid-2nd c. B.C.E to the first quarter of the 1st c. B.C.E.) Late-republican settlement



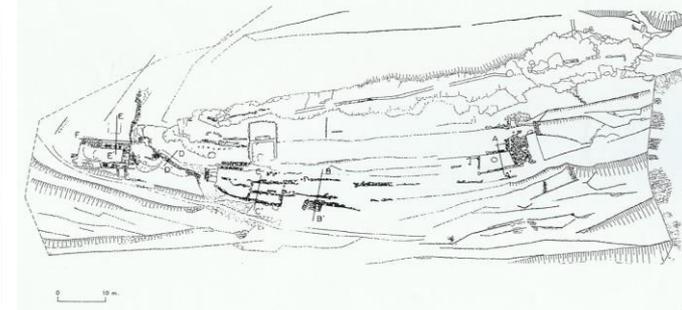
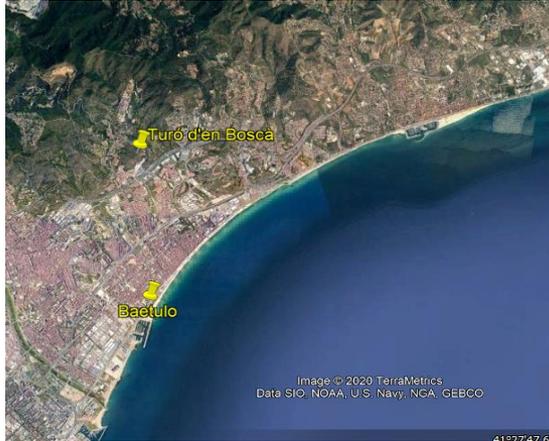


Iluro, Roman town (from the first quarter 1st c. B.C.E.)

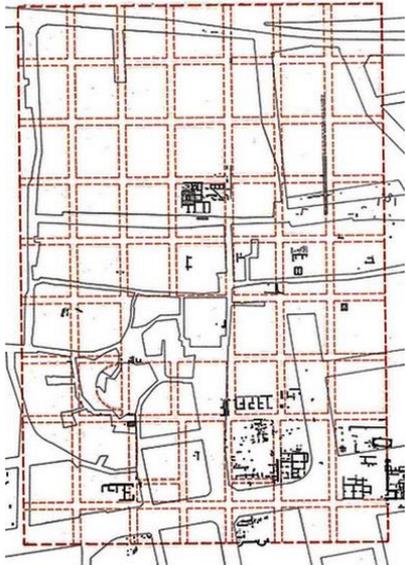




Iberian settlement Turó d'en Boscà (4th c. B.C.E to the beginning of the 1st c. B.C.E.)



Baetulo, Roman town (from the first quarter 1st c. B.C.E.)





Emporiae



Tarraco



Tarraco, Roman towns (contexts: end 2nd c. B.C.E. to the end of the 1st c. B.C.E)



OBJECTIVES

1. Identify chemical ceramic groups and understand how they relate to the existent archaeological categories
2. To address questions of provenance
3. Characterise and compare the manufacturing processes of the meaningful ceramic groups identified by archaeometric characterization (in progress)
 - Raw materials
 - Glosses
 - Firing temperatures
4. Suggest plausible distribution networks for the productions documented in northeastern Hispania





- *ANALYTICAL TECHNIQUES*

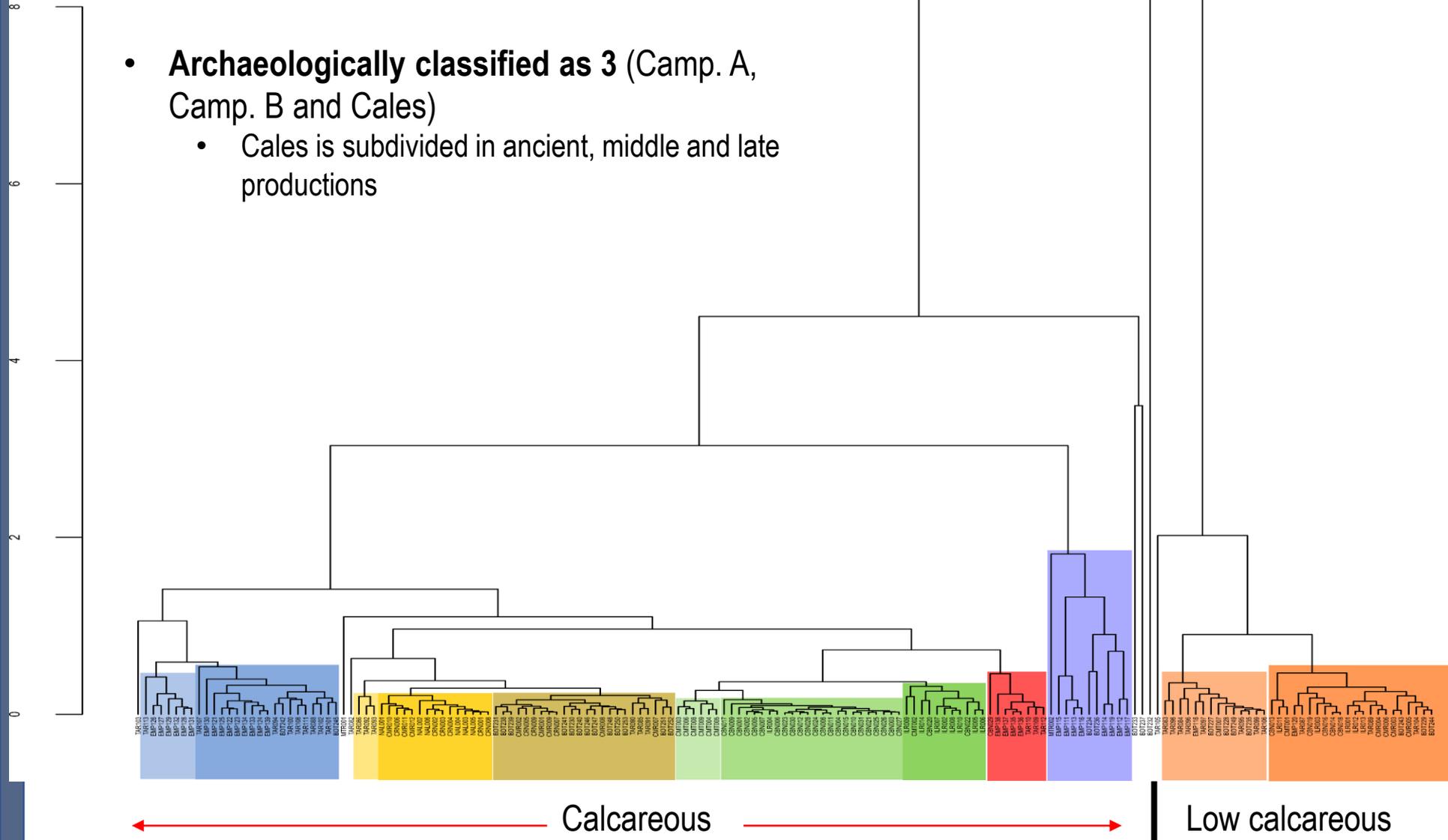
Chemical analysis	XRF
Mineralogical analysis	XRD
Microstructural and glosses studies	SEM

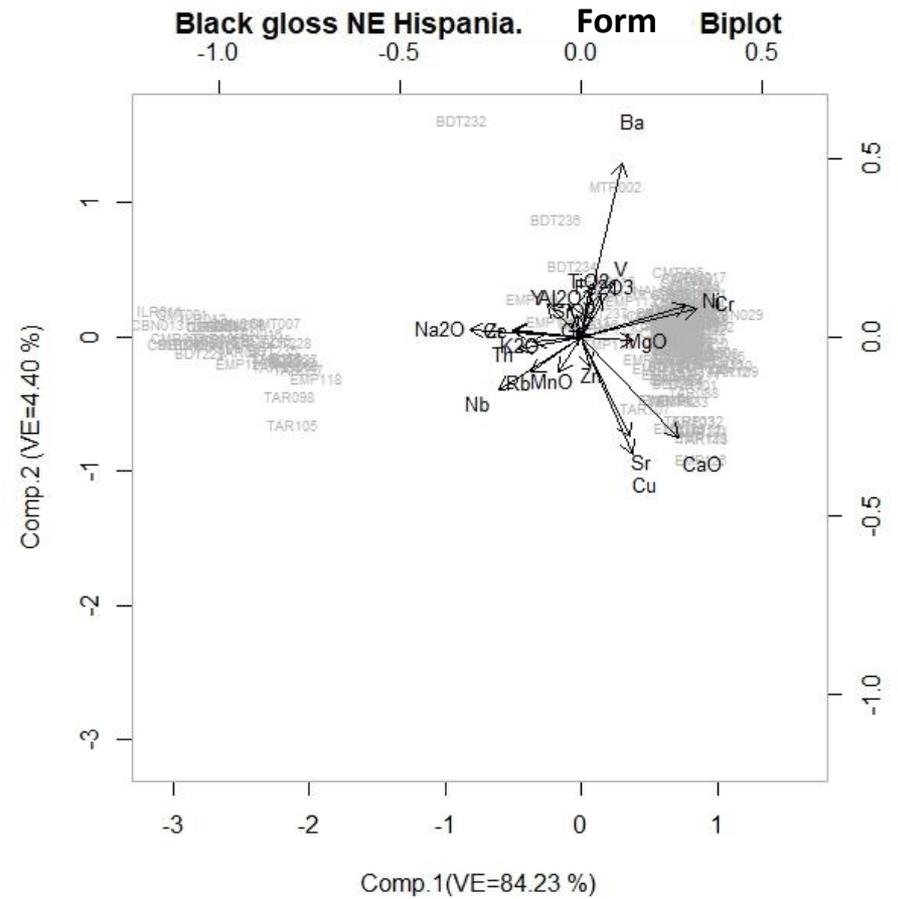
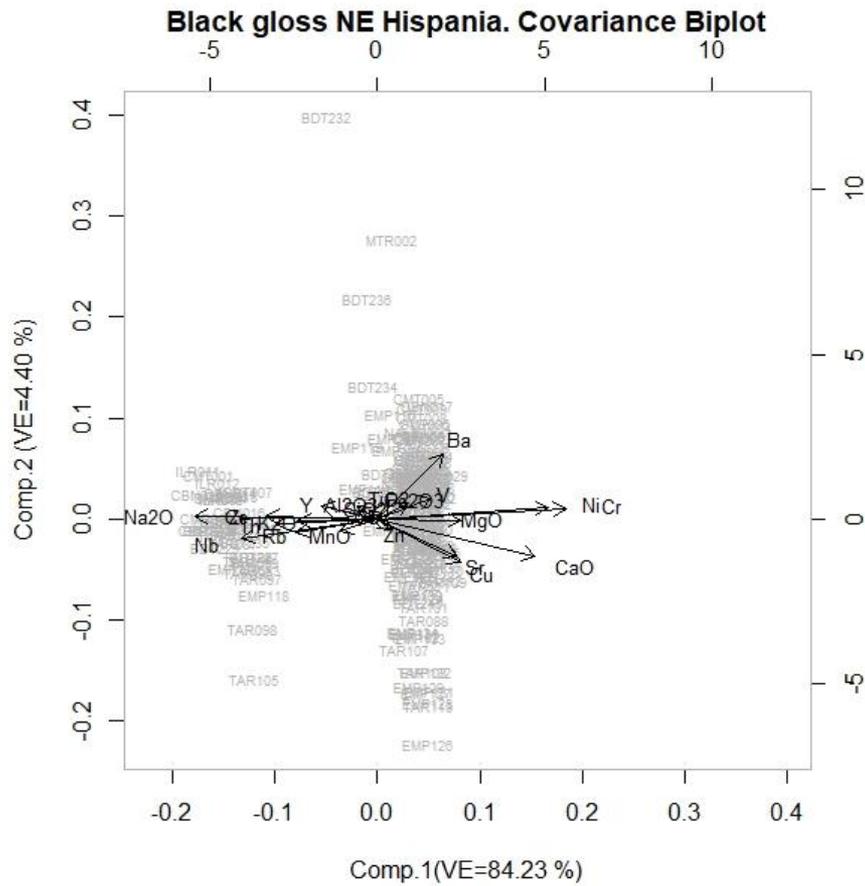


ARQUB Database, published analytical data



- **12 different groups identified**
- **Archaeologically classified as 3 (Camp. A, Camp. B and Cales)**
 - Cales is subdivided in ancient, middle and late productions





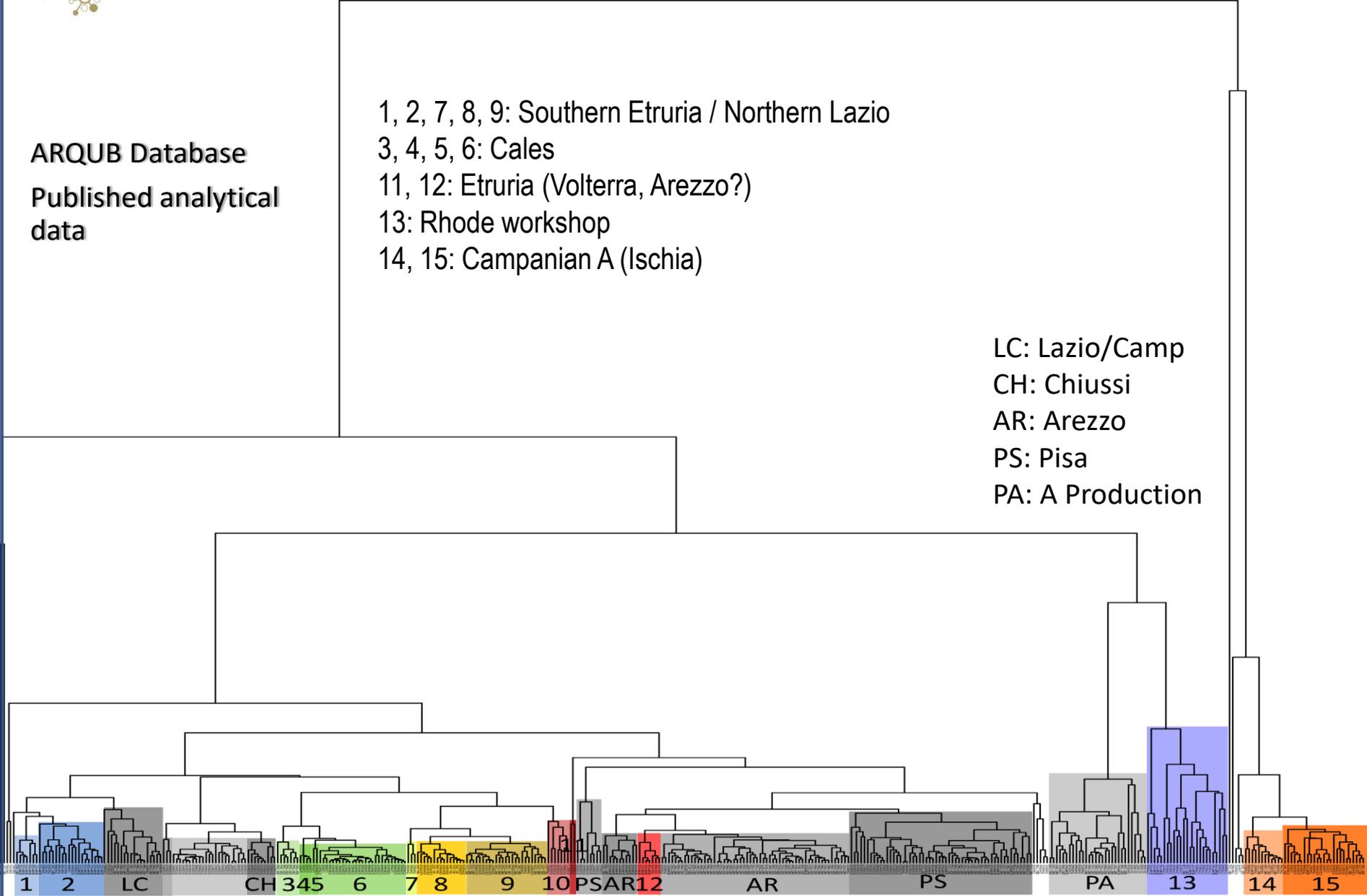
Biplots of the singular value decomposition



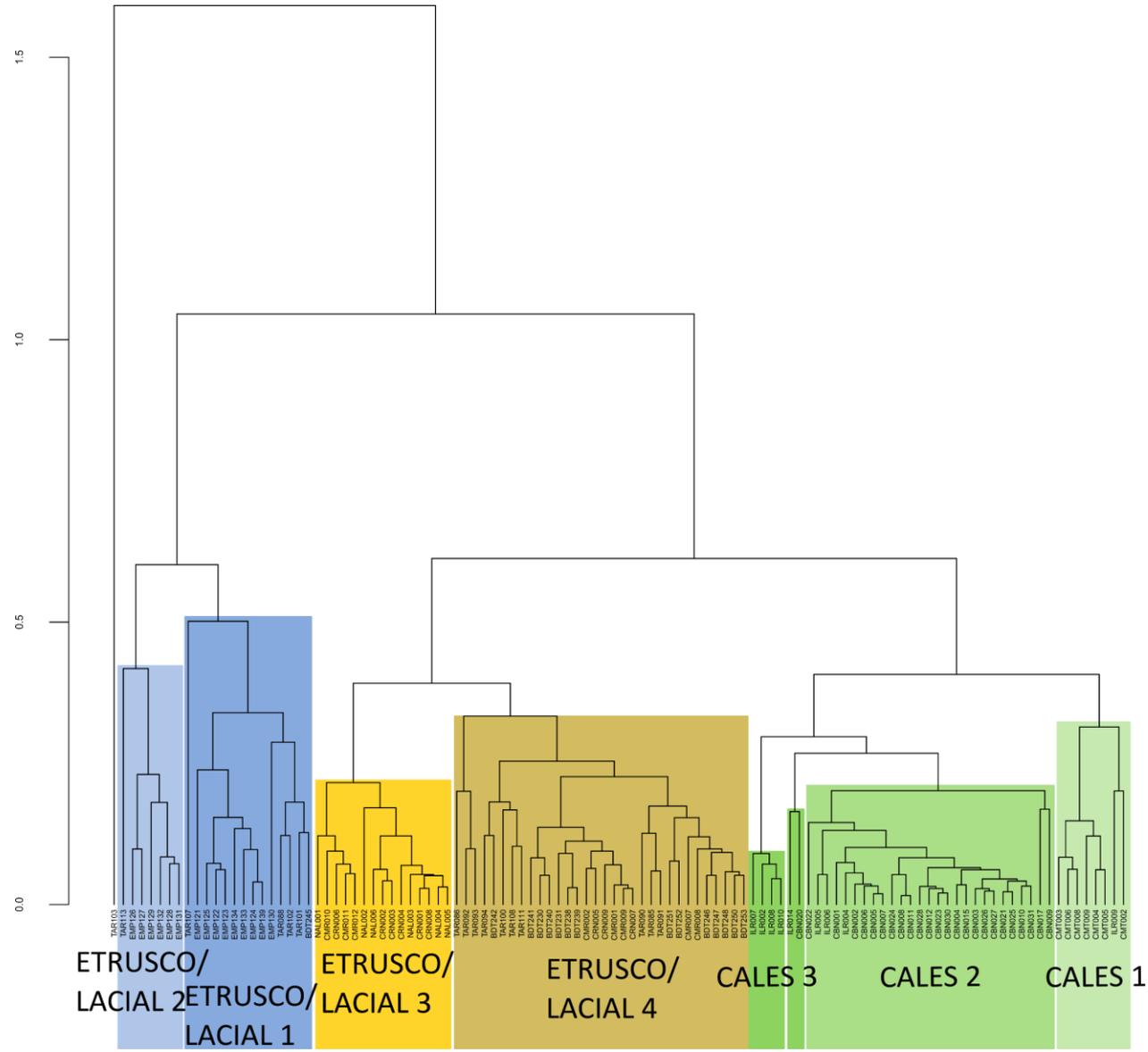
ARQUB Database
Published analytical
data

1, 2, 7, 8, 9: Southern Etruria / Northern Lazio
3, 4, 5, 6: Caes
11, 12: Etruria (Volterra, Arezzo?)
13: Rhode workshop
14, 15: Campanian A (Ischia)

LC: Lazio/Camp
CH: Chiussi
AR: Arezzo
PS: Pisa
PA: A Production



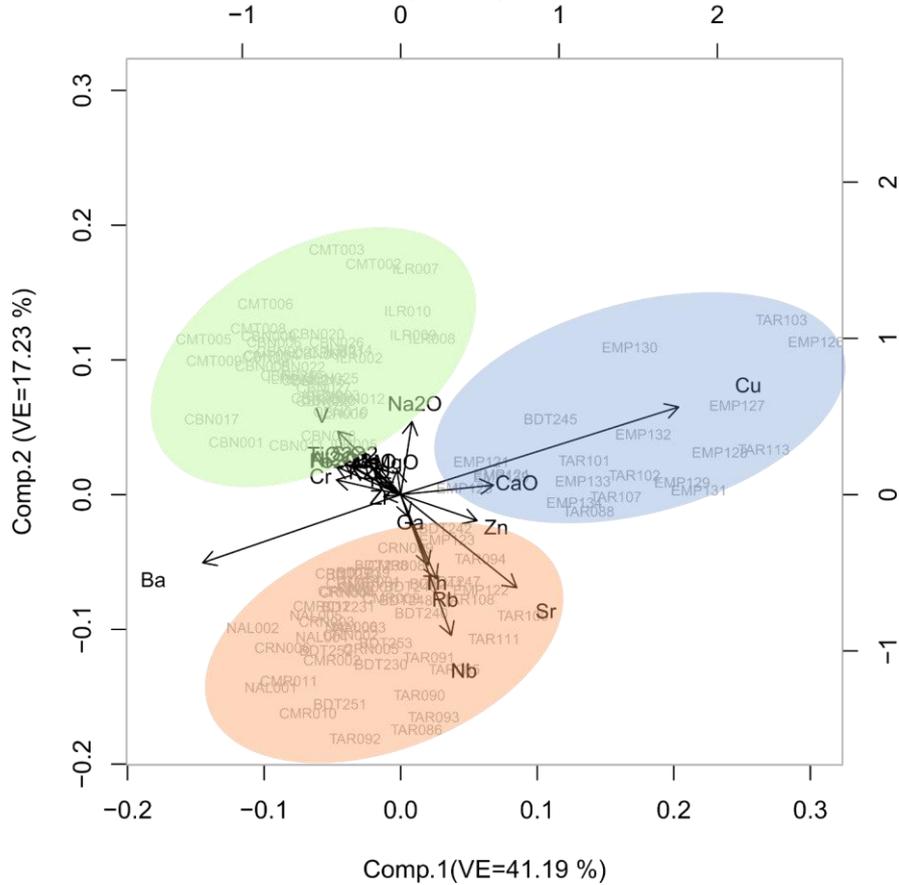
1 2 LC CH 3 4 5 6 7 8 9 10 PS AR 12 AR PS PA 13 14 15



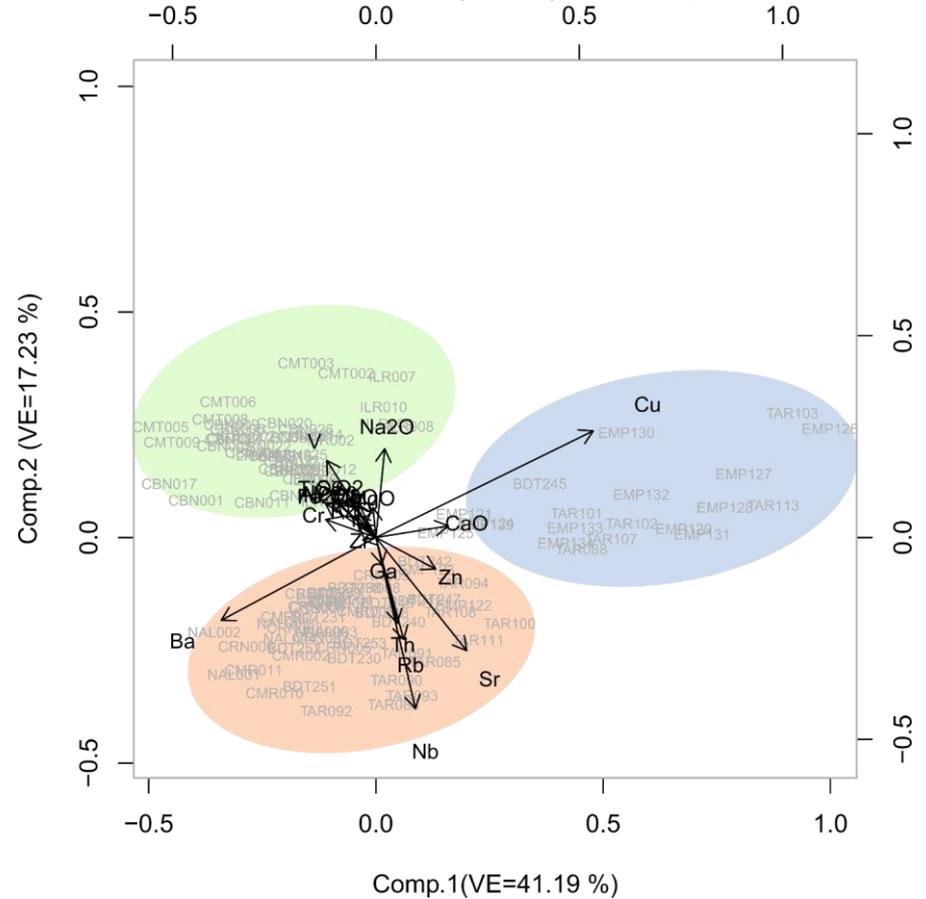


EAA 2020 Virtual Annual Meeting 26th EAA Annual Meeting 24-30 August 2020

Black Gloss B (n=111). Covariance Biplot



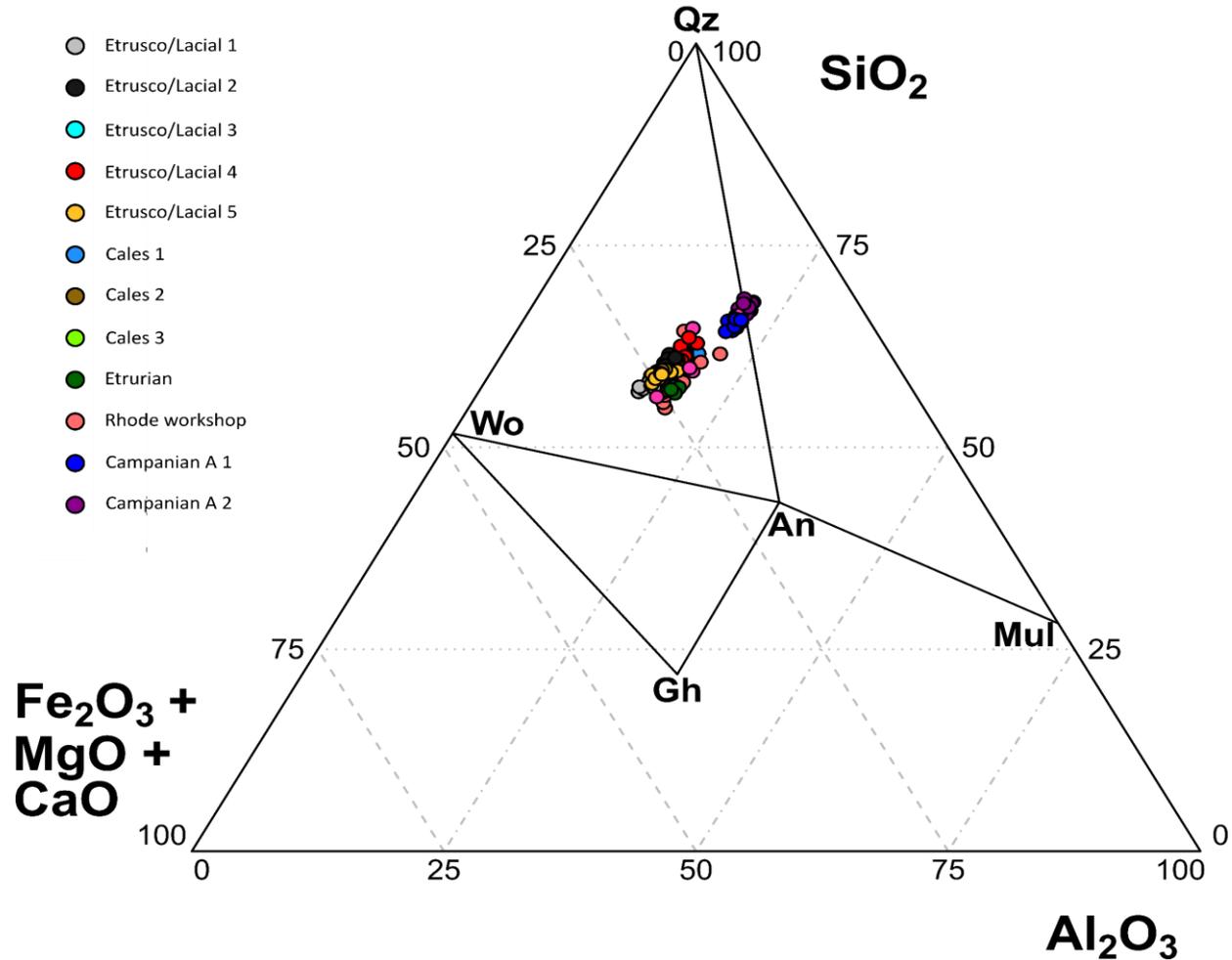
Black Gloss B (n=111). Form Biplot

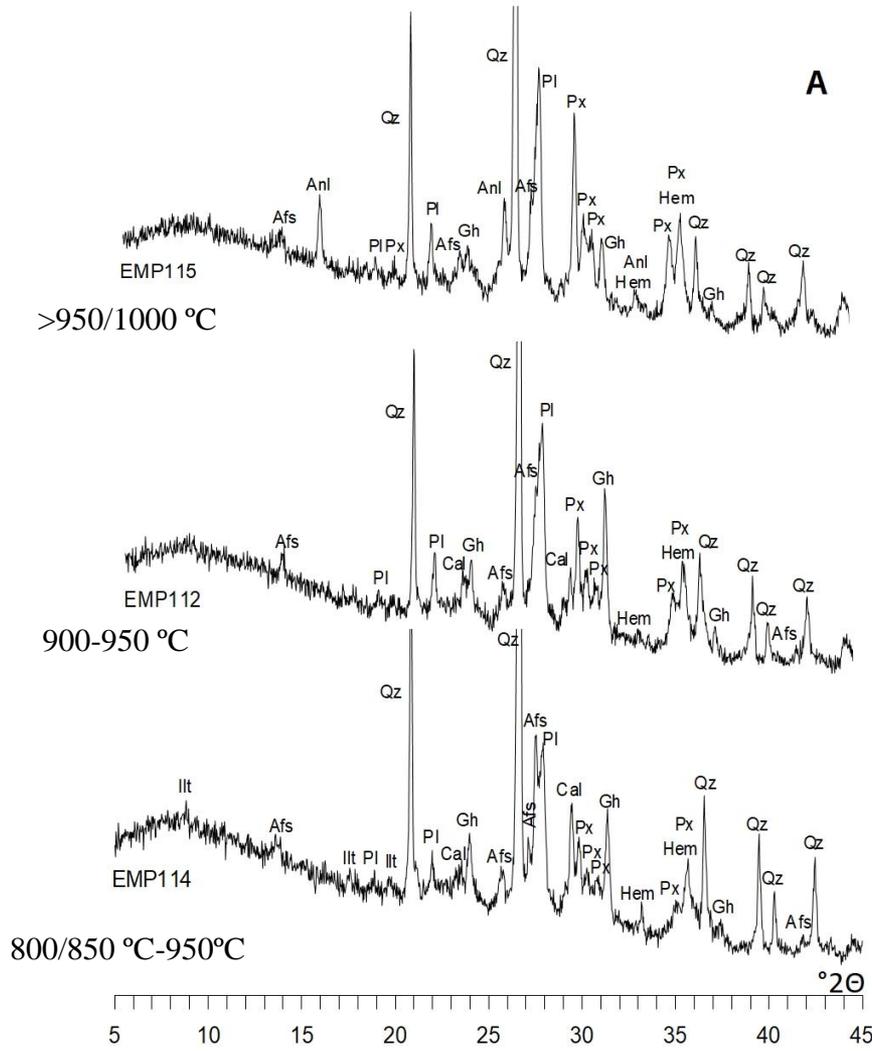




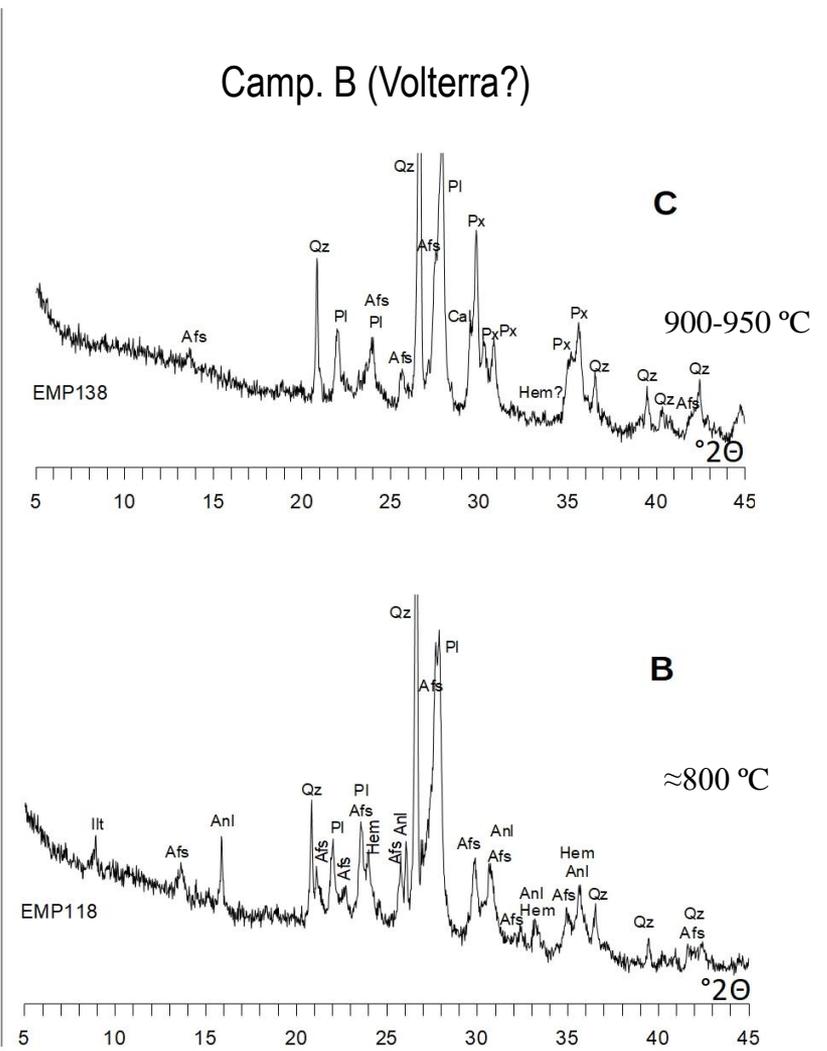
Ceramic triangle

(wt %)

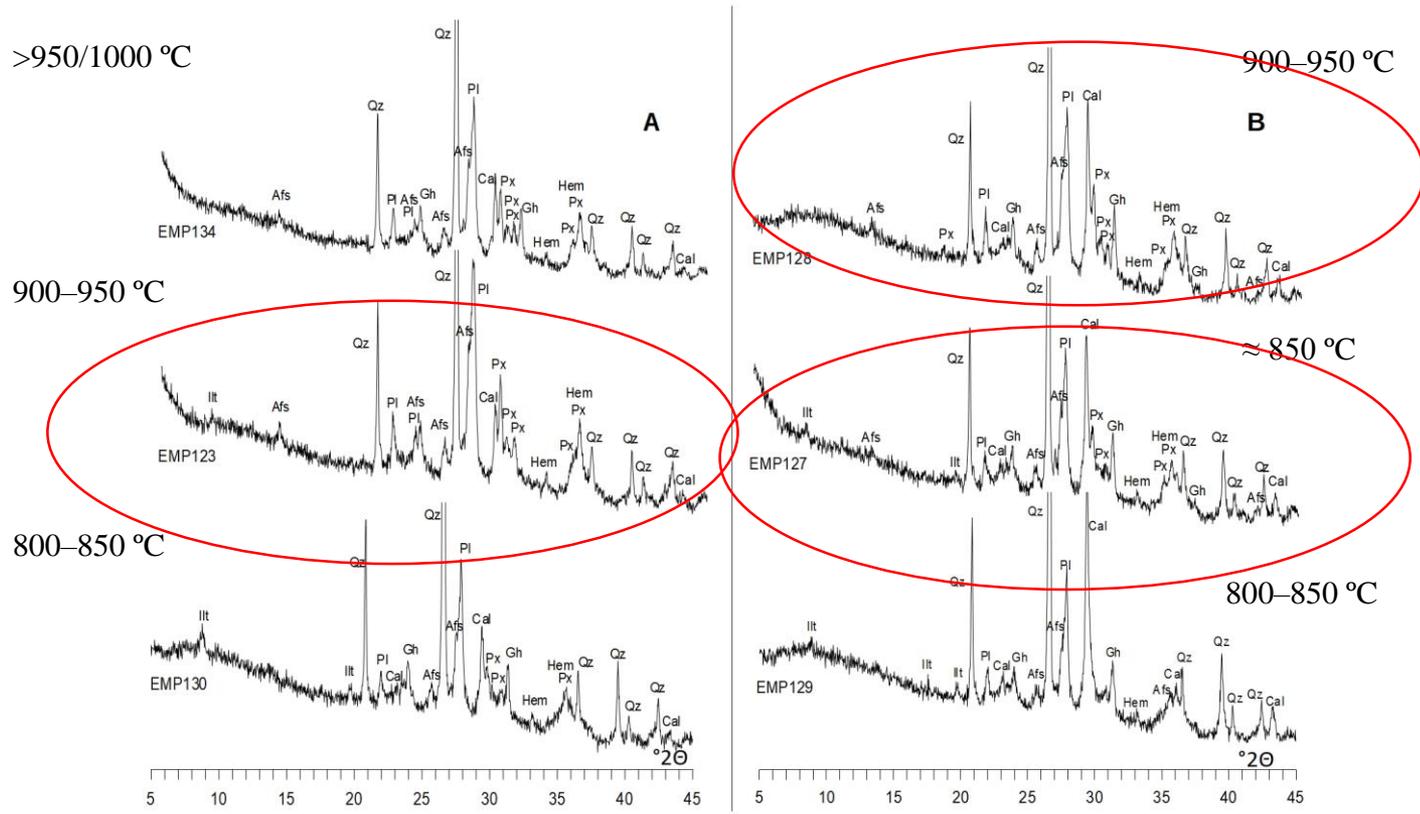




Imitations Camp. A



Camp. A



Etrusco/Lacial and Cales



CAMPANIANA A



EMP118



EMP120

IMITACIONES DE CAMPANIANA A



EMP117



EMP112

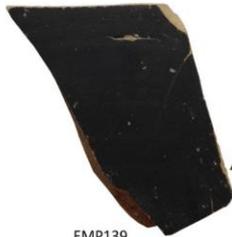


EMP111



EMP115

ETRUSCO / LACIAL 1



EMP139



EMP123



EMP121



EMP133

ETRUSCO / LACIAL 2



EMP133



EMP129



EMP127

VOLTERRA



EMP137



