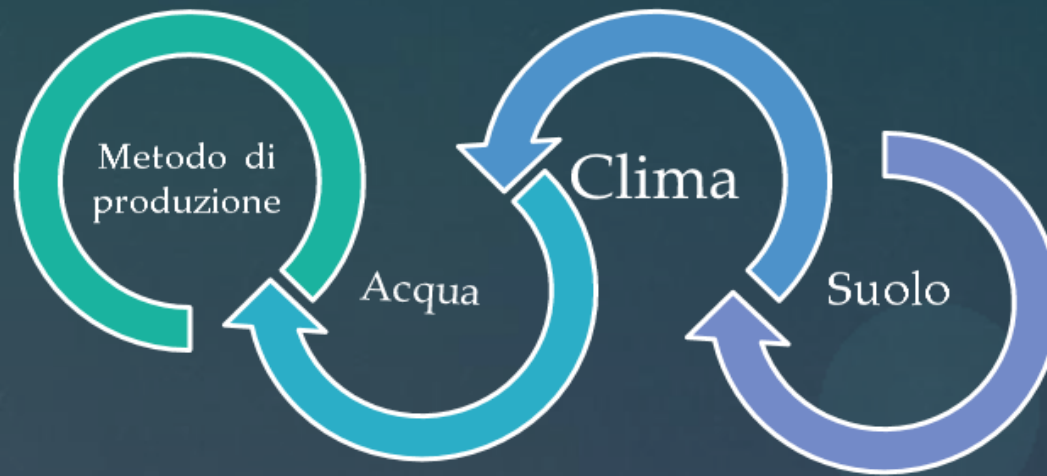


## ACCADEMIA

"Utilizzo dei macro e microelementi essenziali  
nella caratterizzazione territoriale  
del Prosecco"

*Convegno  
"Caratterizzazione dei Proseccchi"  
che si terrà presso il CRA VIT di Susegana  
via Casoni, 13/A  
sabato 8 giugno 2013*

*Pepi S., Marcuzzo P., Sansone L., Soligo S., Tomasi D. e Vaccaro C.*

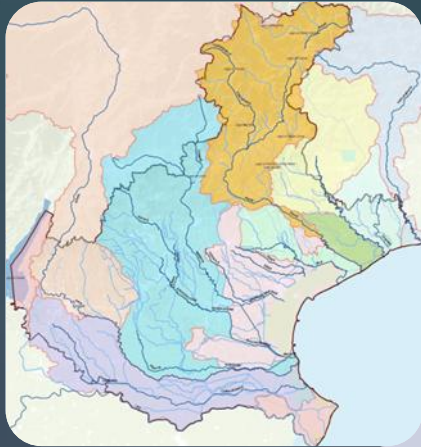


LA PRINCIPALE VARIABILE E' LA COMPOSIZIONE GEOCHIMICA DEL SUOLO CHE SI RIFLETTE SUL CONTENUTO DEI MACRO E MICRONUTRIENTI

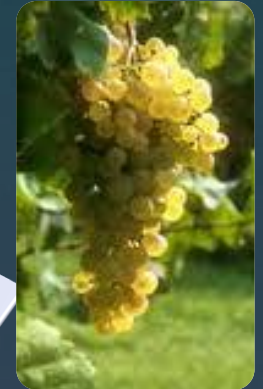
QUESTI FATTORI POSSONO ESSERE RICOSTRUITI ATTRAVERSO ANALISI GEOCHIMICHE



# CAMPIONAMENTO SUOLO- UVA



VENETO



Vitigno  
Glera

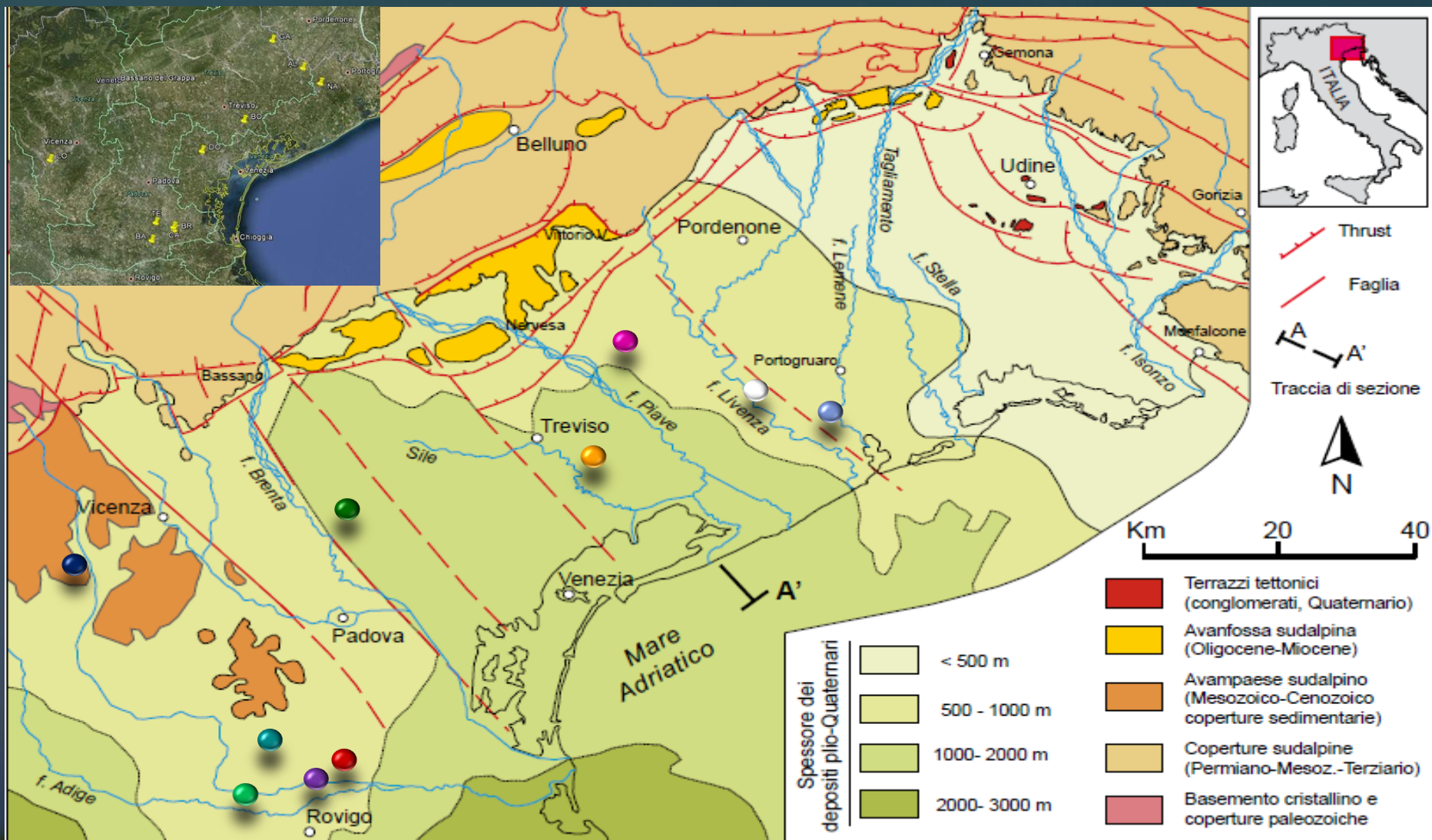
0-20 cm  
20-40 cm  
40-60 cm

Az. Bottazzo  
Az. Gaiarine  
Az. Pettarello  
Az. Broscagin  
Az. Braga  
Az. Peraro  
Az. S. Anna  
Az. Aleandri  
Az. Nardin  
Az. Lonigo

Bacino	Località	Azienda	Coltivazione
Livenza-Tagliamento	Motta di Livenza	Aleandri	Doppio capovolto
Adige	Bagnoli di Sopra	Agr. S. Anna	Cortina pendente
Piave	Casale sul Sile	Agr. Bottazzo	Sylvoz
Adige	Candiana	Agr. Broscagin	Sylvoz
Adige	Candiana	Agr. Braga	Sylvoz
Brenta	Mirano	Pattarello Ludovico	Sylvoz
Piave	Gaiarine	Soc. Agr. Gaiarine	Sylvoz
Agno Guà	Lonigo	Lonigo	Cordone Speronato
Livenza-Tagliamento	S. Stino di Livenza	Nardin-Lison	Doppio capovolto
Adige	Terrassa Padovana	Agr. Peraro	Sylvoz, Guyot

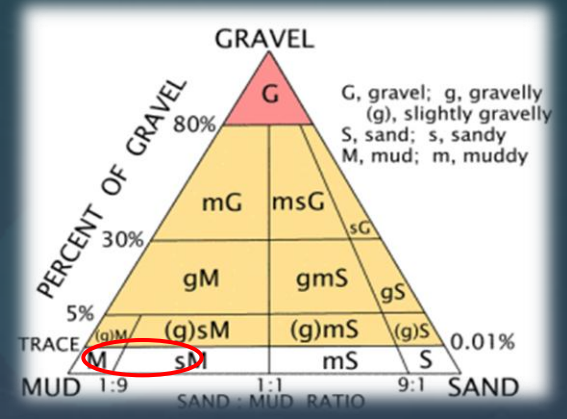
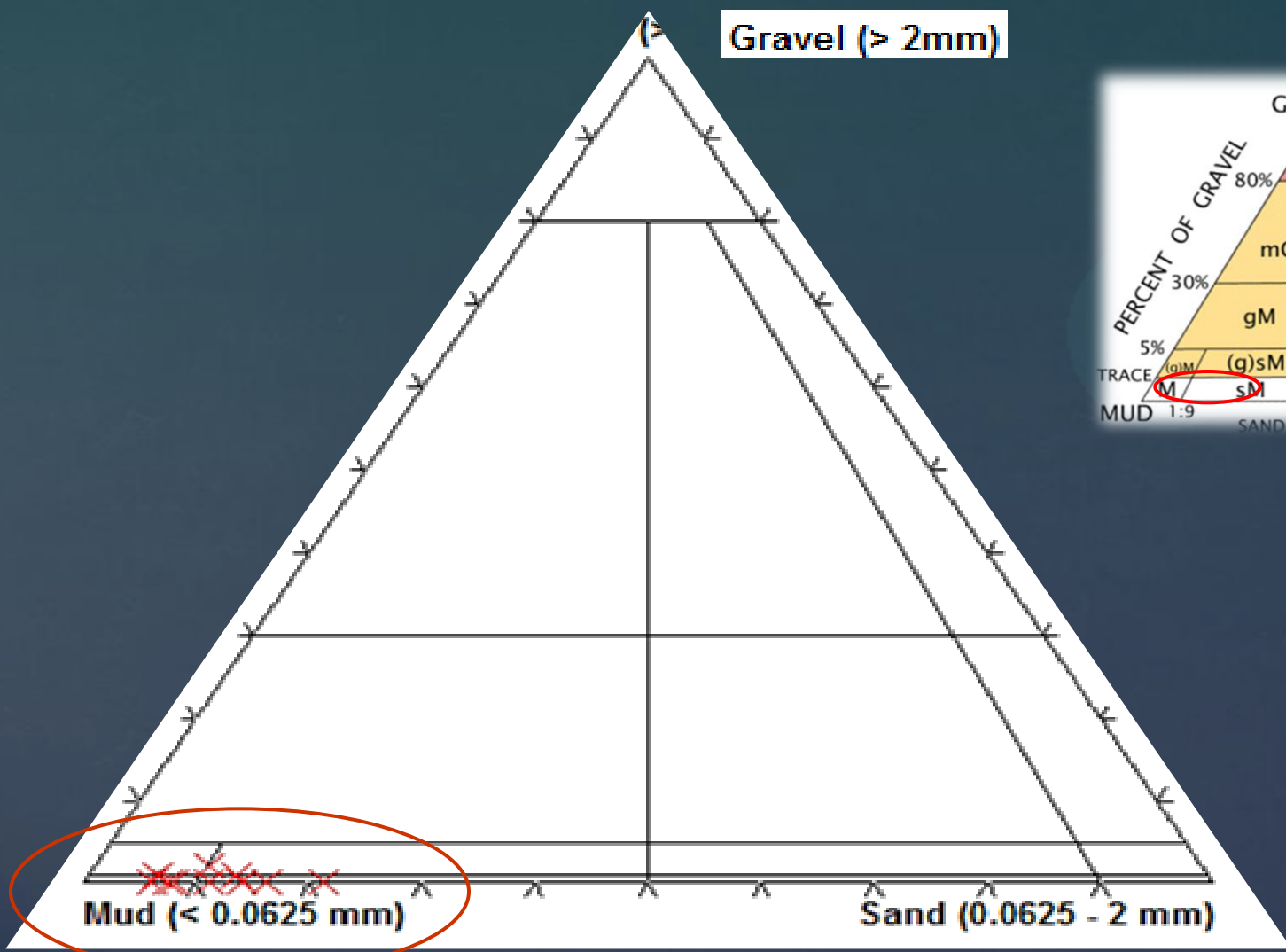


# LOCALIZZAZIONE PUNTI DI CAMPIONAMENTO



- Az.Lonigo
- Az.S.Anna
- Az.Peraro
- Broscagin
- Az.Braga
- Az.Pettarello
- Az.Bottazzo
- Az.Gaiarine
- Az.Aleandri
- Az.Nardin

# ANALISI GRANULOMETRICA VENETO



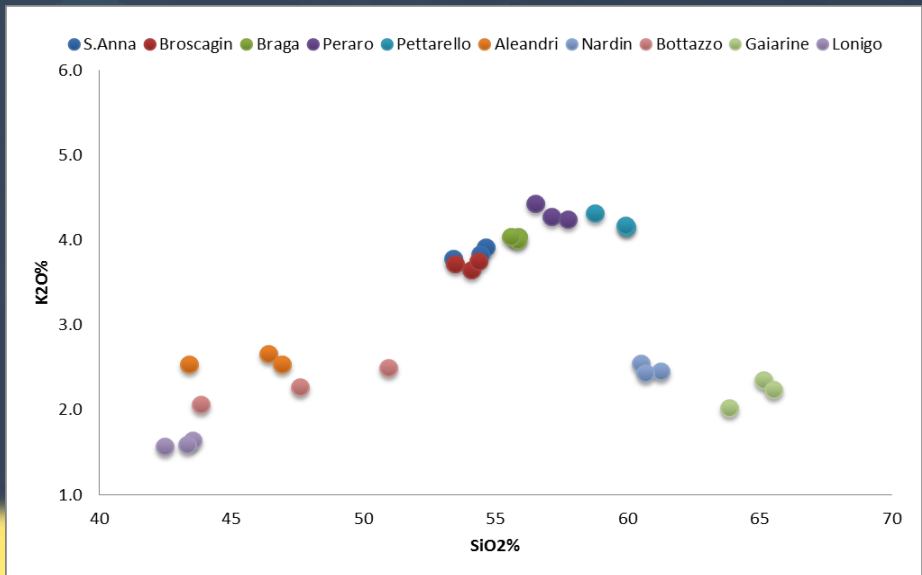
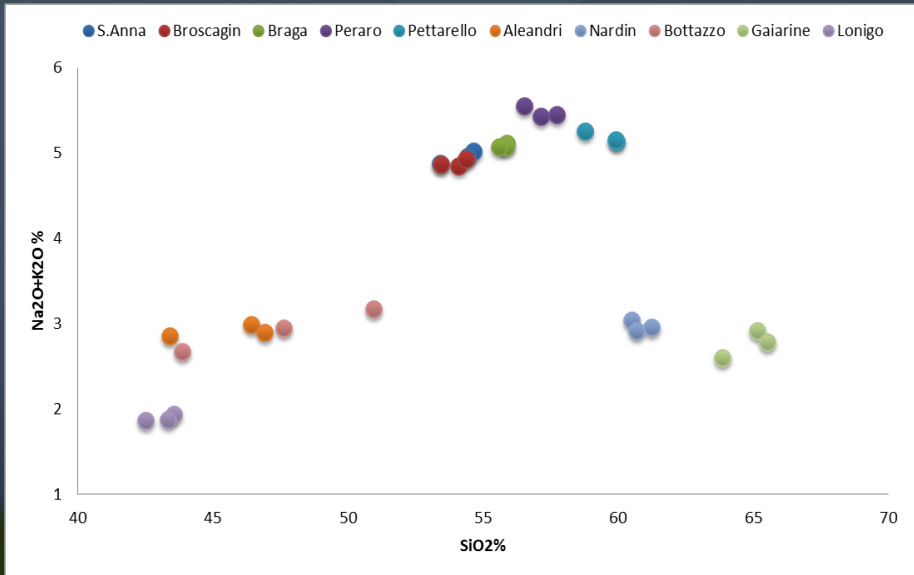
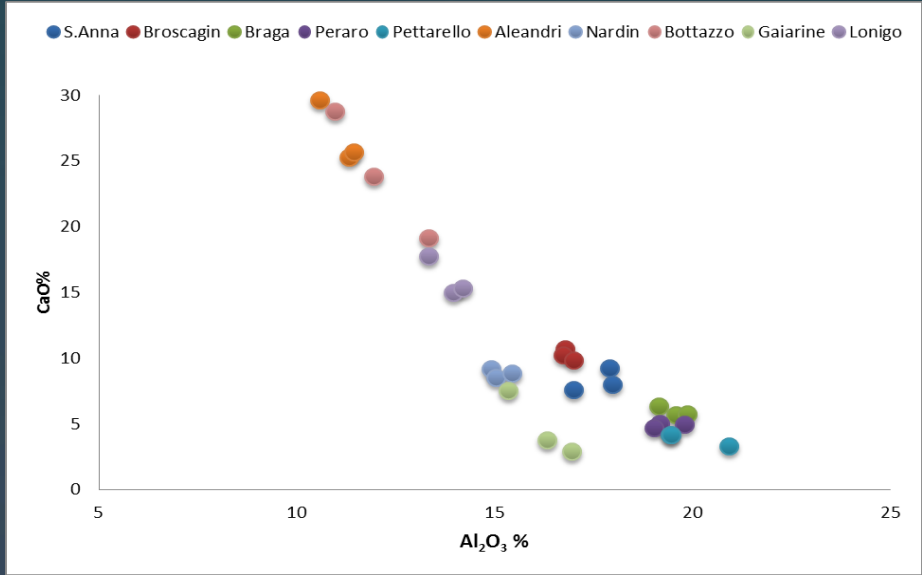
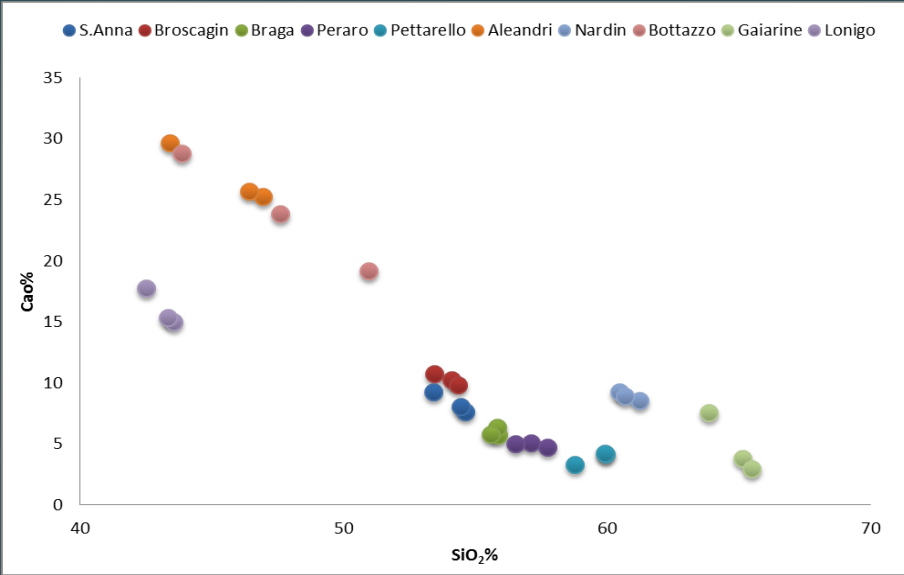
# ANALISI GRANULOMETRICA VENETO

La bassa dispersione granulometrica fa rientrare le aree indagate nei parametri previsti dall' Art. 9 (D.M 17 Luglio 2009) del disciplinare di produzione della denominazione di origine controllata dei vini «PROSECCO» che nel legame con l'ambiente geografico evidenzia suoli delle aree di produzione che devono avere una tessitura dominante argillosa-limosa, in modo da garantire il mantenimento e la corretta disponibilità dei macro e microelementi

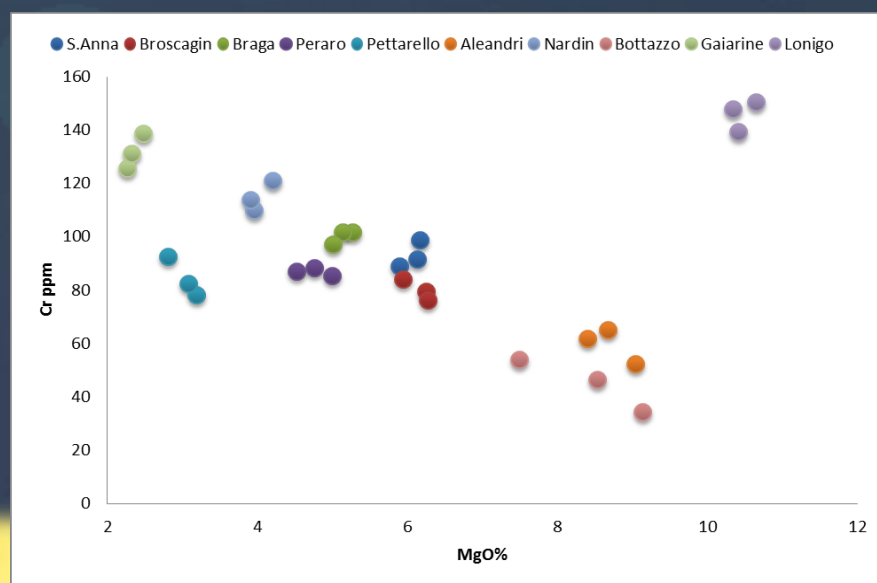
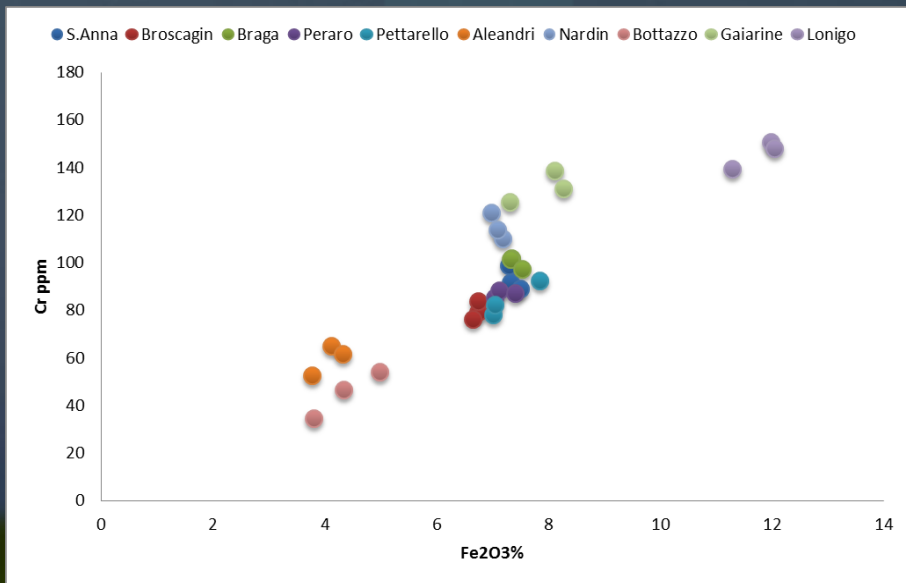
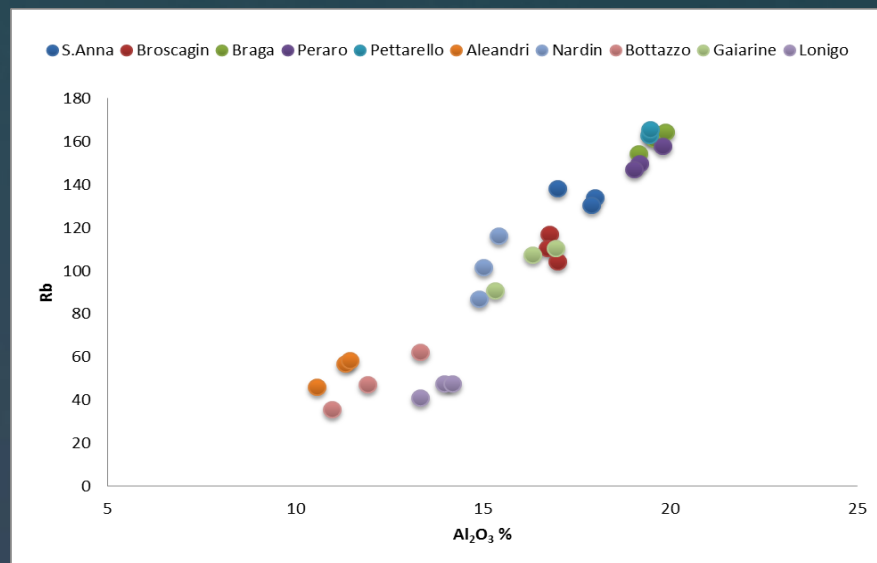
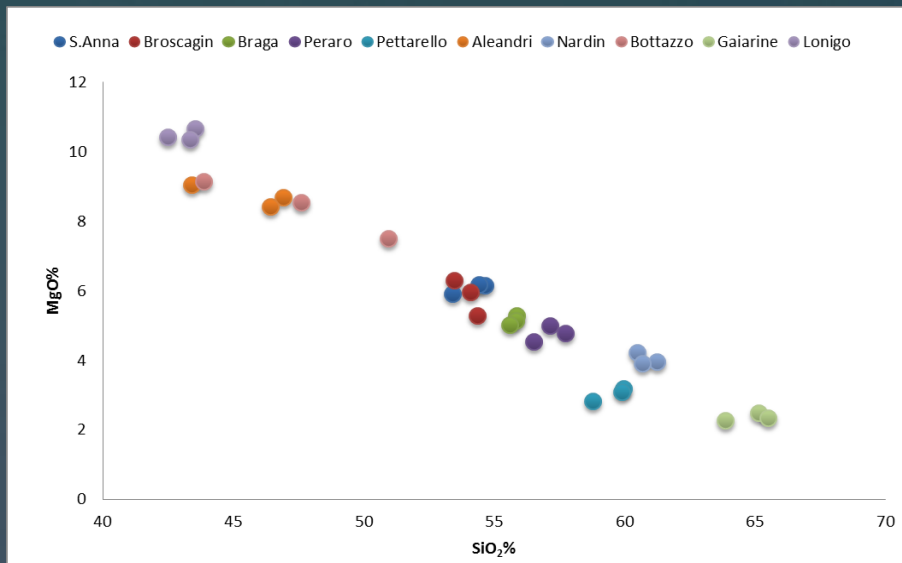
**D.M. 17 luglio 2009** concernente il riconoscimento della Denominazione di Origine Controllata dei vini “Prosecco”, il riconoscimento della Denominazione di Origine Controllata e Garantita dei vini “Conegliano Valdobbiadene - Prosecco” e il riconoscimento della Denominazione di Origine Controllata e Garantita dei vini “Colli Asolani - Prosecco” o “Asolo -Prosecco” per le rispettive sottozone e l'approvazione dei relativi disciplinari di produzione.



# ANALISI XRF SUOLO



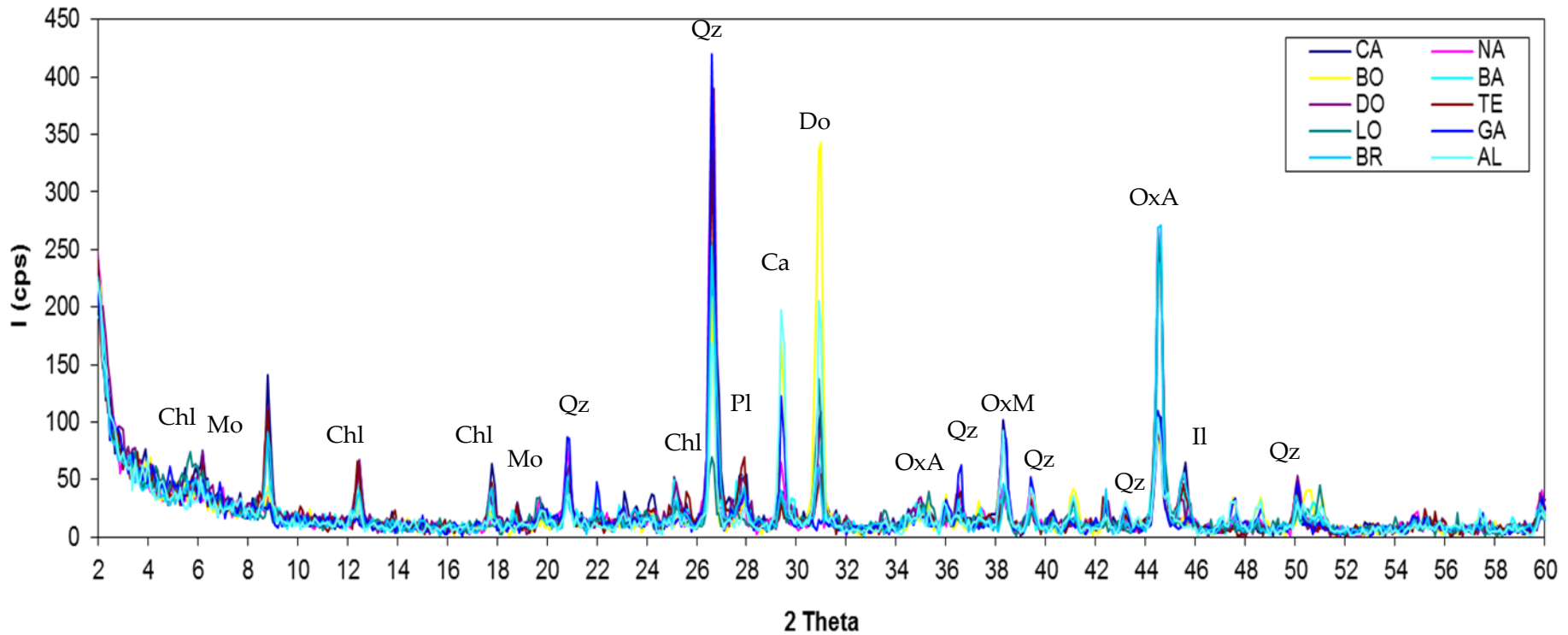
# ANALISI XRF SUOLO





# ANALISI XRD SUOLO

Qz-Quarzo Chl-Clorite Ca- Calcite Do-Dolomite Mo-Montmorillonite Il-Illite  
OxM-Ossido di manganese OxA-Ossido di Alluminio Pl-Plagioclasio



# NORMATIVE DI RIFERIMENTO SUOLO

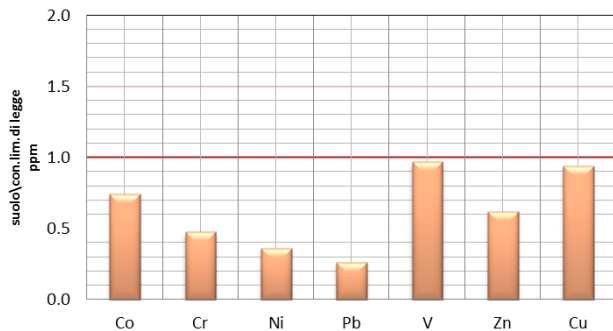
Elemento	Sito ad uso verde pubblico, privato e residenziale (ppm)	Sito ad uso commerciale e industriale (ppm)
Sb	10	30
As	20	50
Be	2	10
Cd	2	15
Co	20	250
Cr tot	150	800
Cr VI	2	15
Hg	1	5
Ni	120	500
Pb	100	1000
Cu	120	600
Se	3	15
Sn	1	350
Ti	1	10
V	90	250
Zn	150	1500

**Decreto Legislativo 3 aprile 2006, n. 152 "Norme in materia ambientale"**  
**SUOLI**

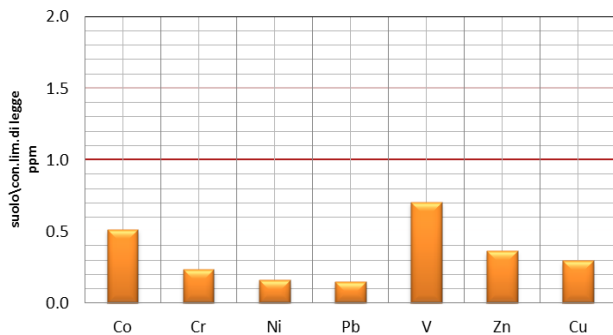


# NORMATIVE DI RIFERIMENTO

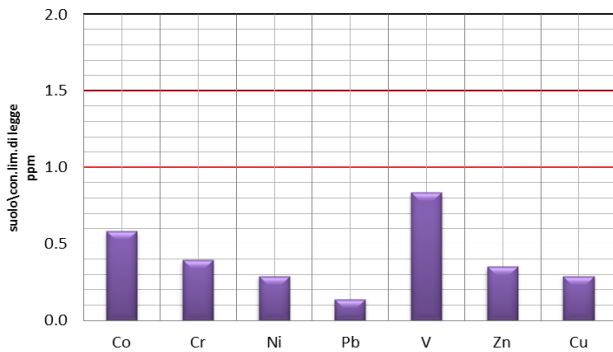
Az. GAIARINE



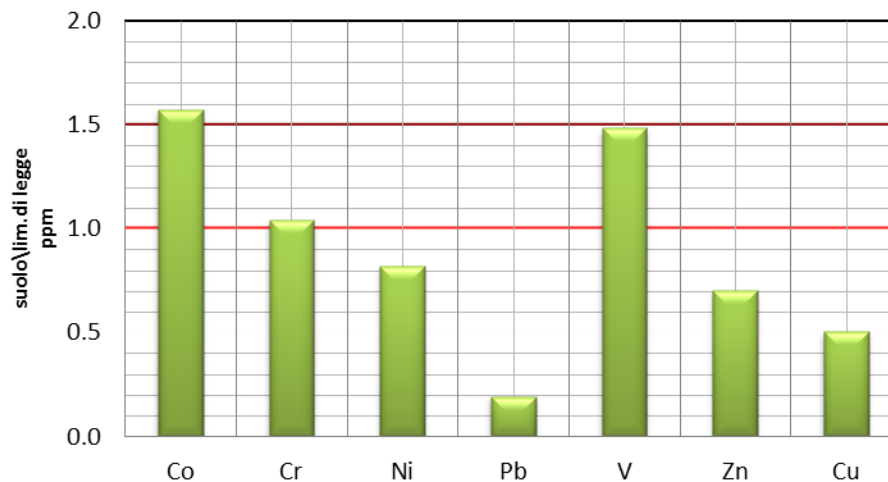
Az. BOTTAZZO



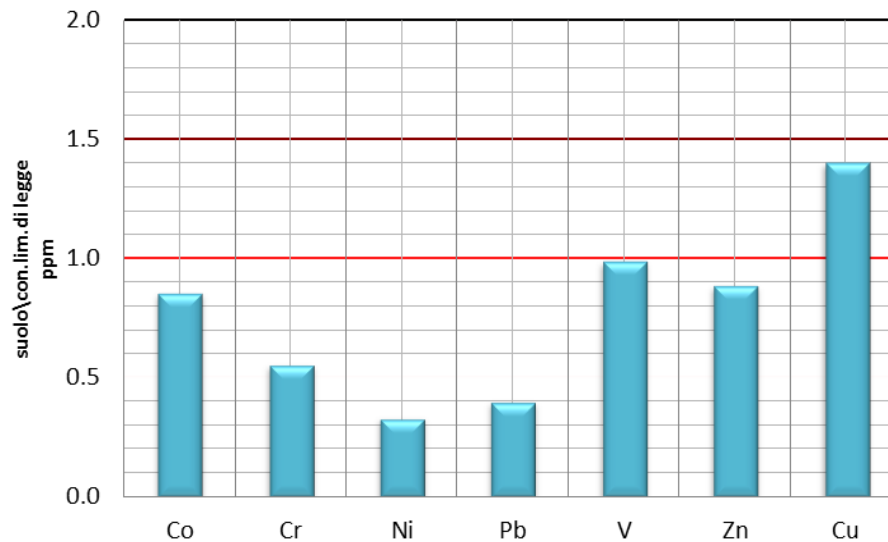
AZ. ALEANDRI



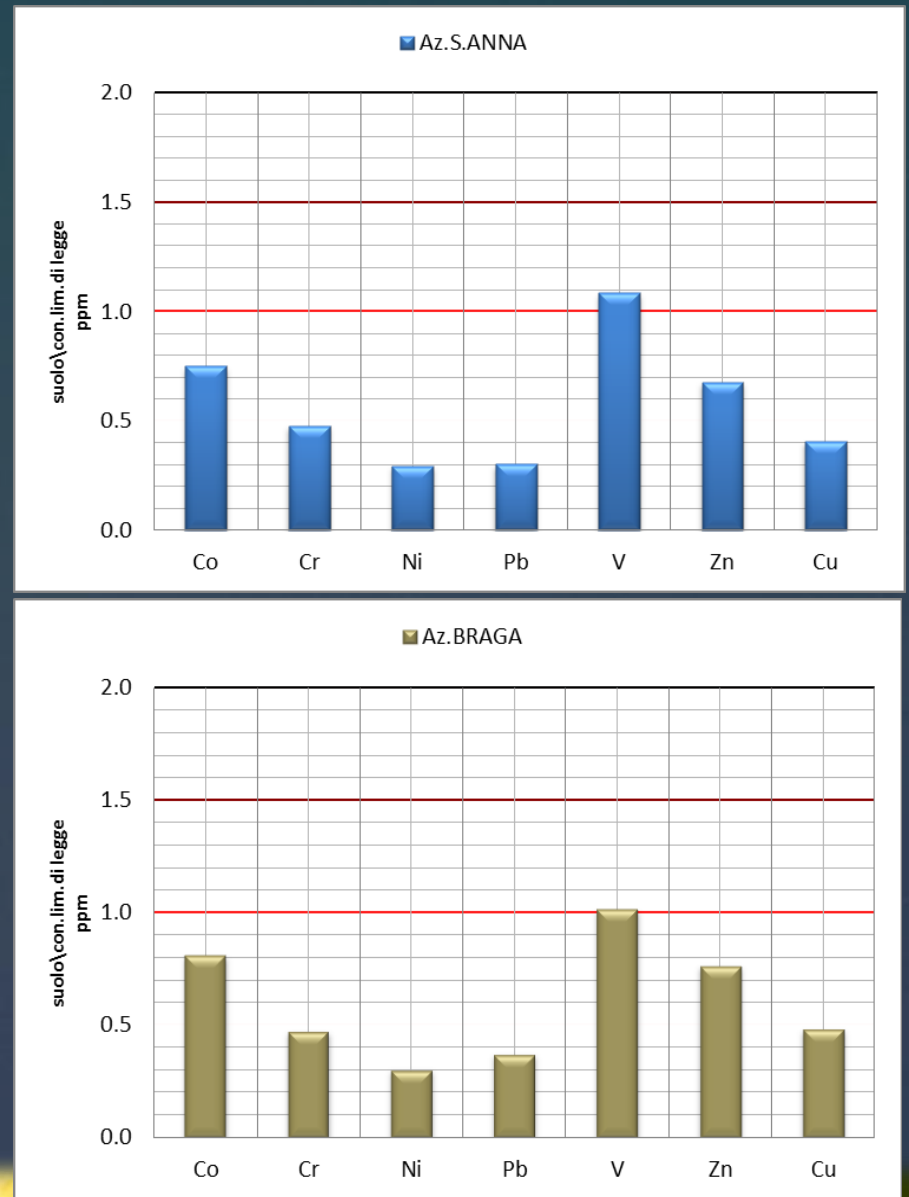
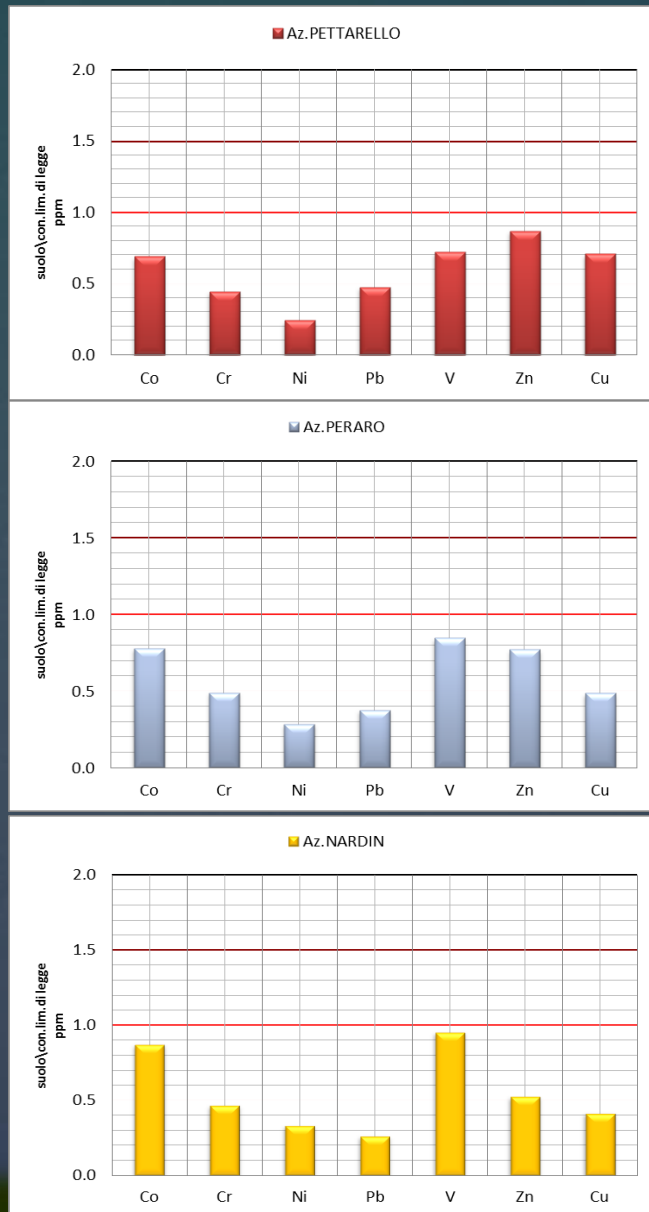
Az. LONIGO



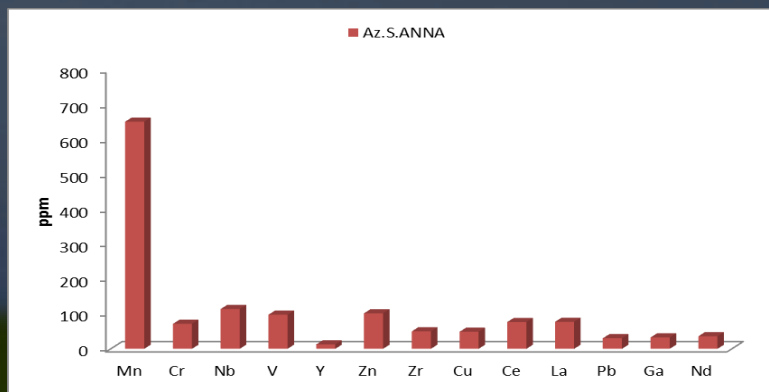
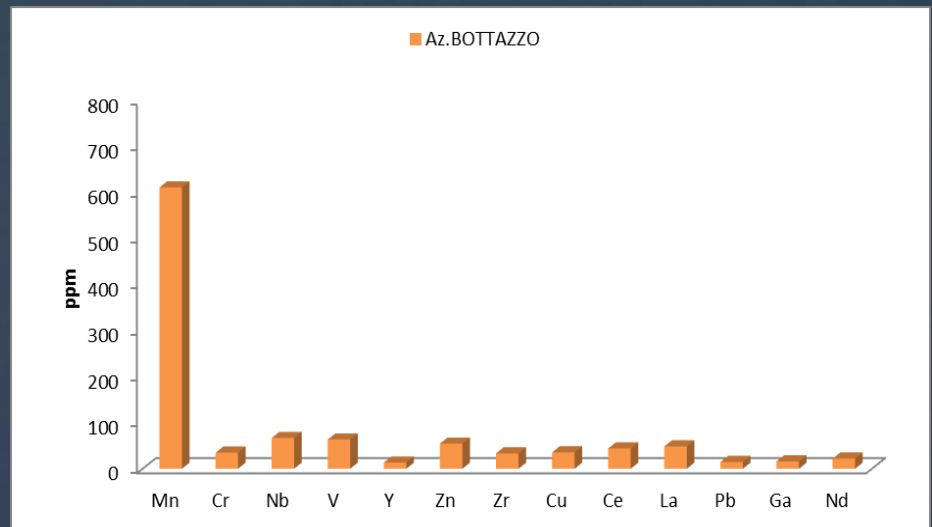
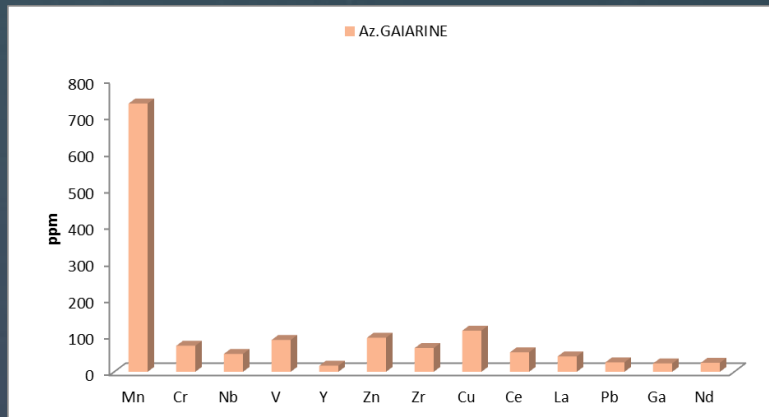
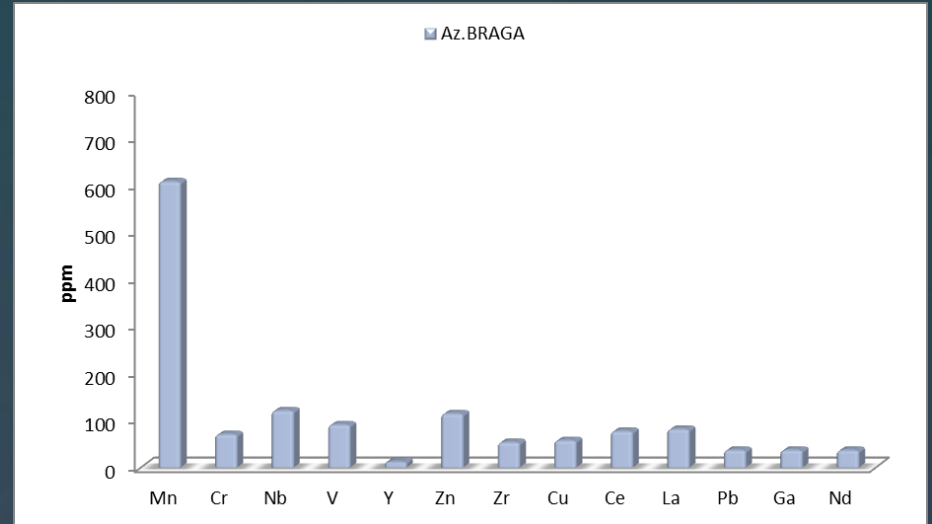
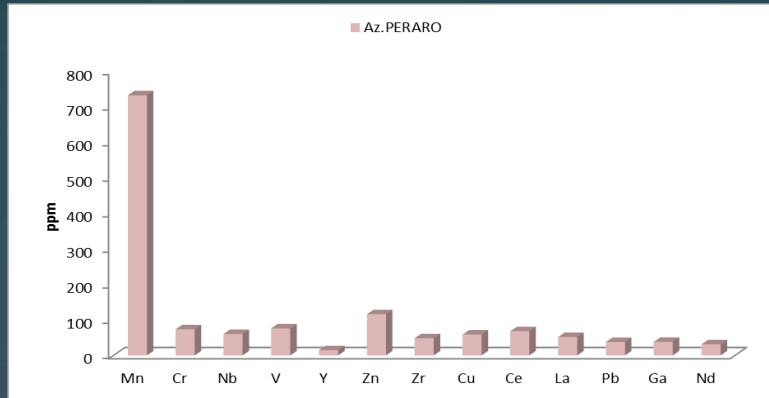
Az. BROSCAGIN



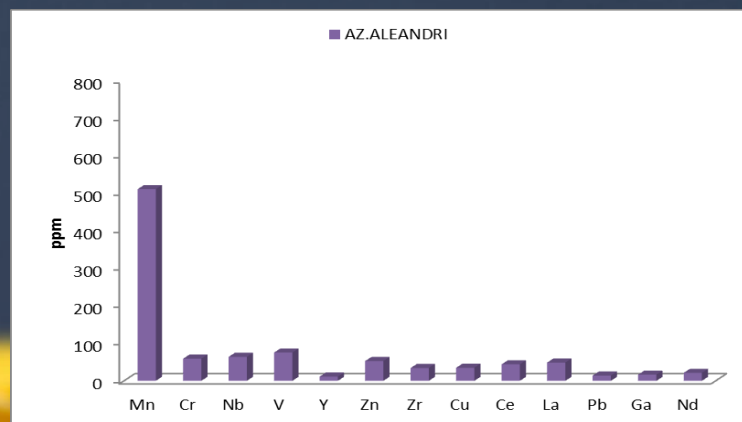
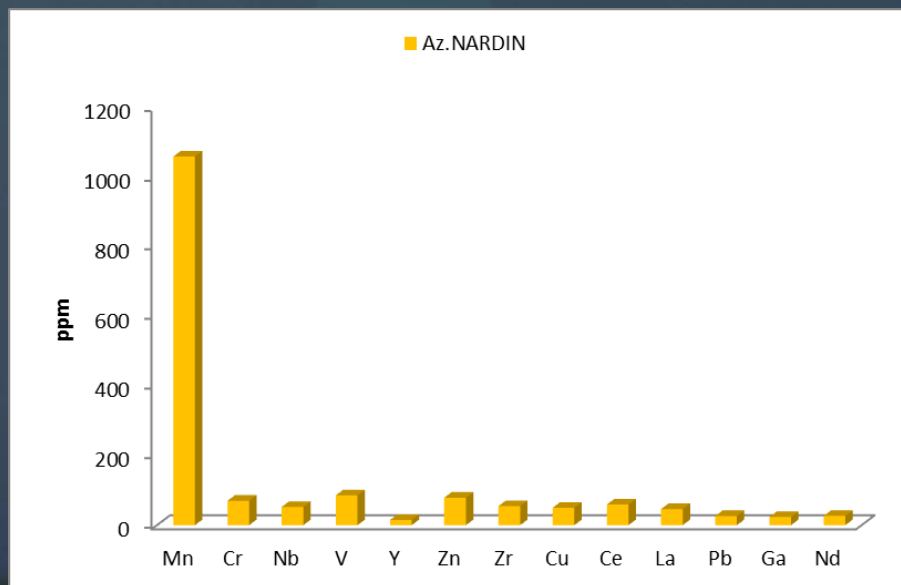
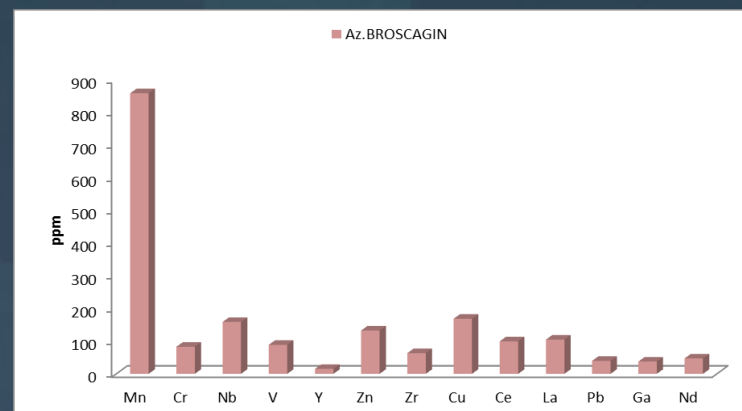
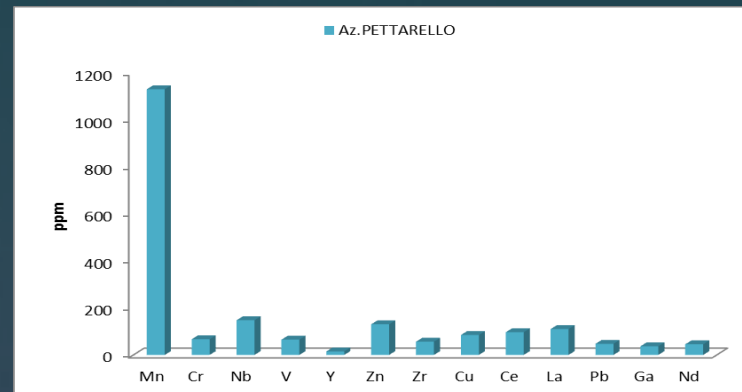
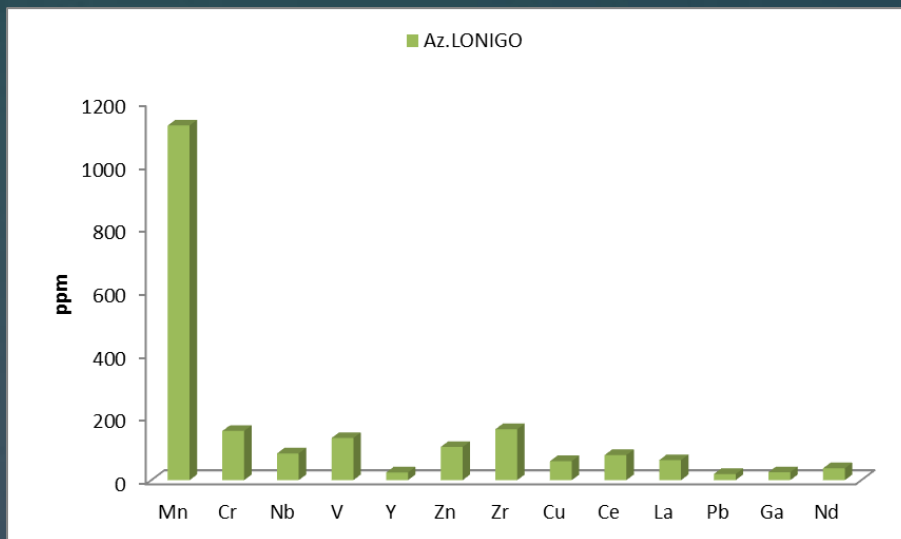
# NORMATIVE DI RIFERIMENTO



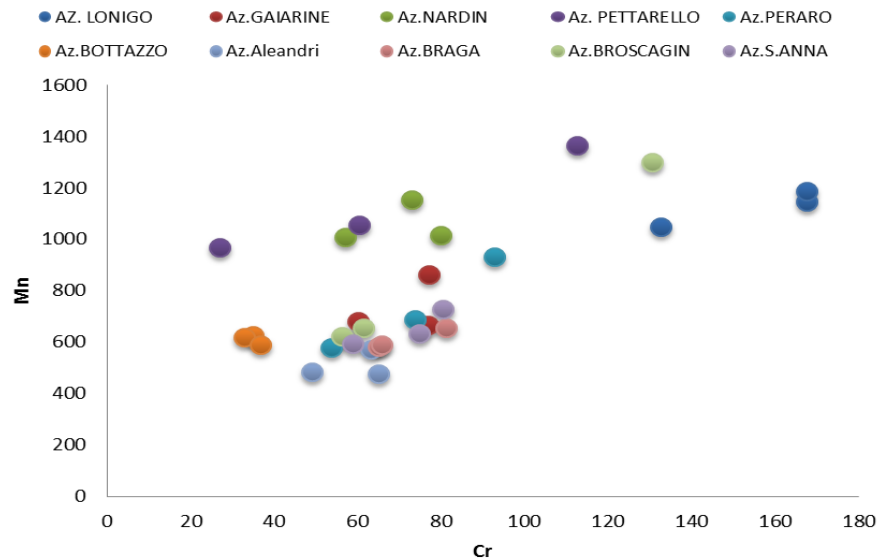
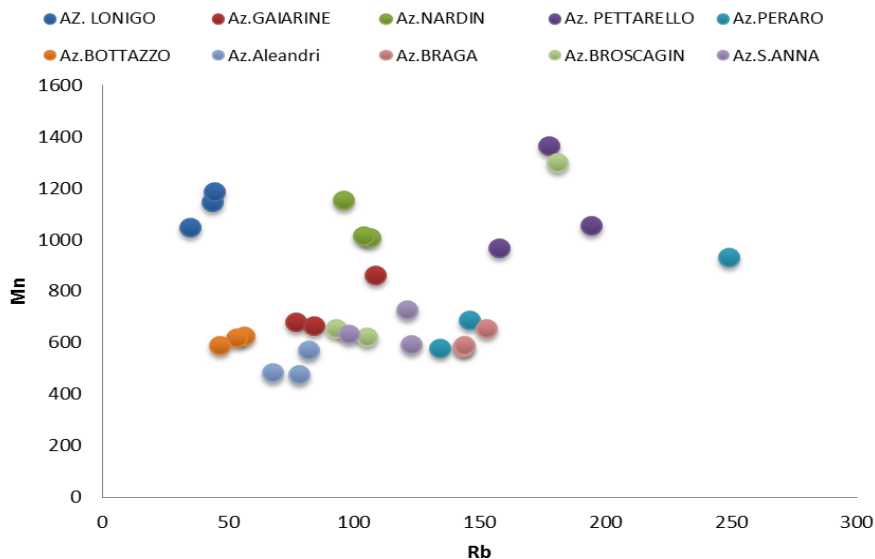
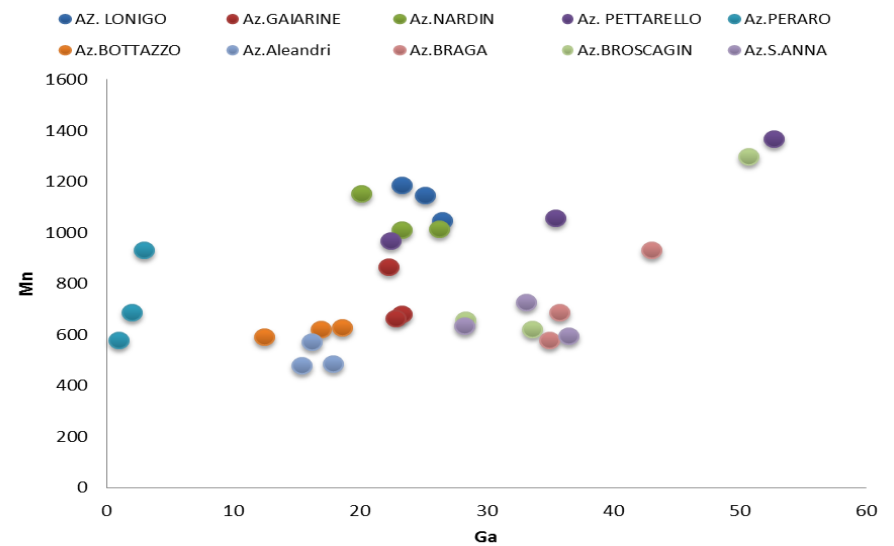
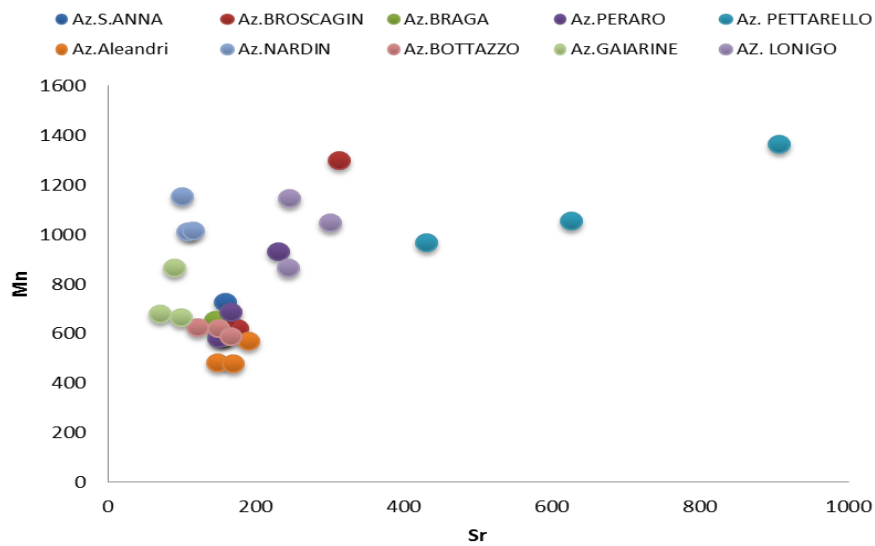
# MACRO-MICRO ELEMENTI NEL SUOLO



# MACRO-MICRO ELEMENTI NEL SUOLO



# RELAZIONE TRA MICRO ELEMENTI NEL SUOLO



# NORMATIVE DI RIFERIMENTO SUCCO-VINO

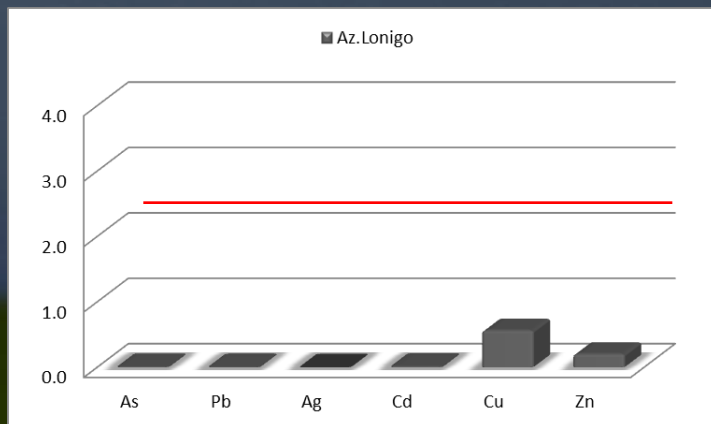
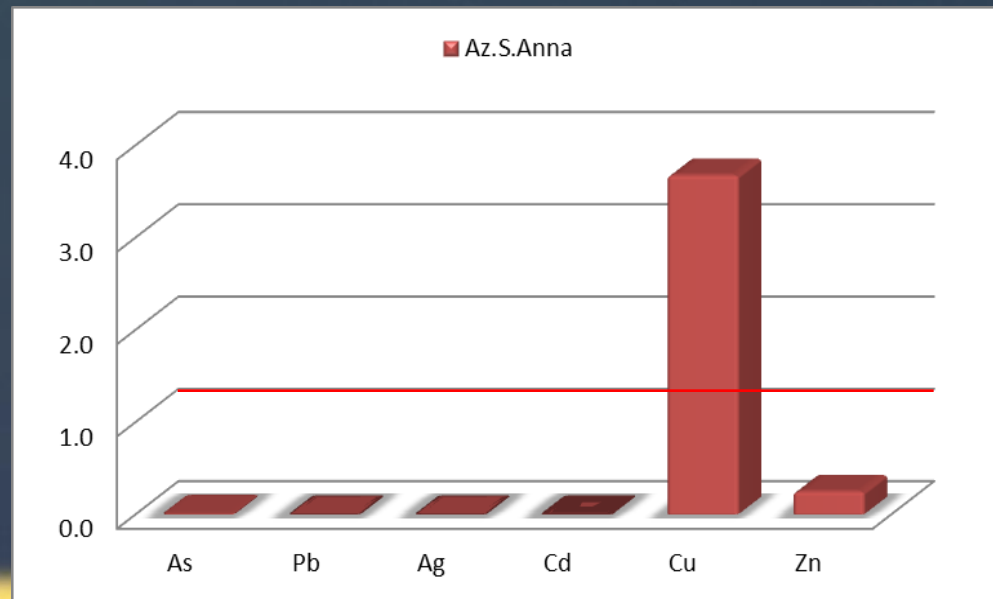
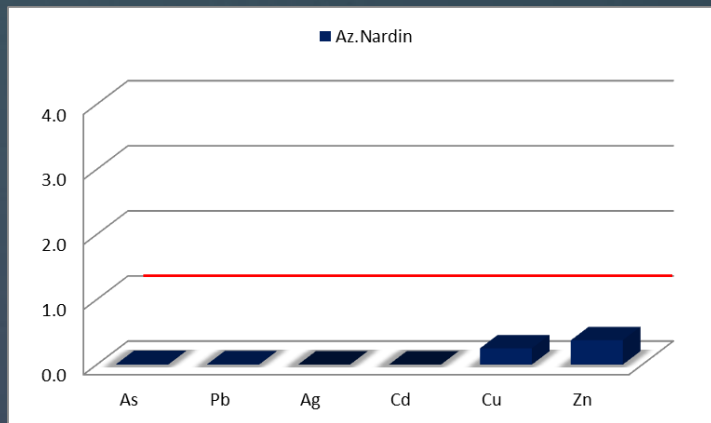
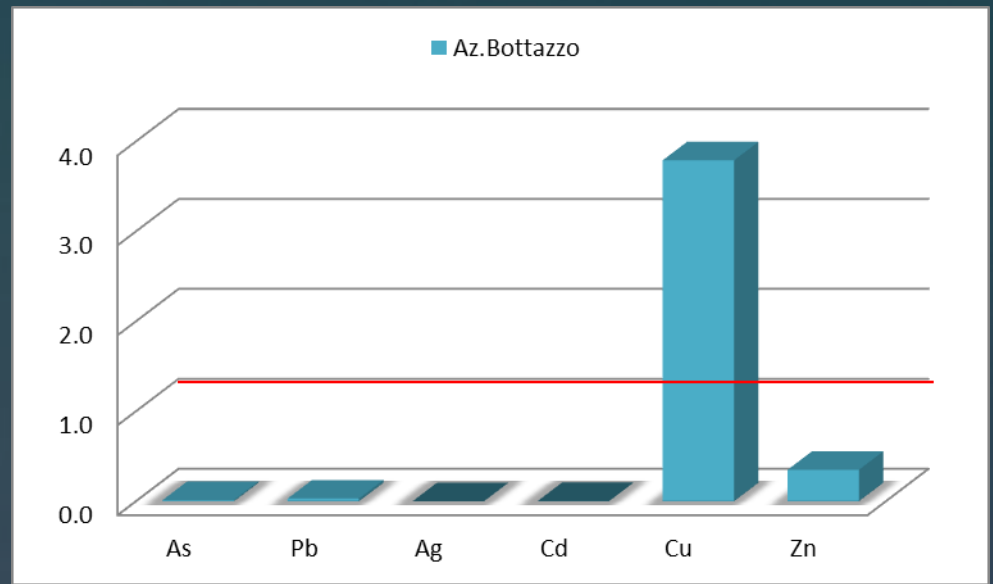
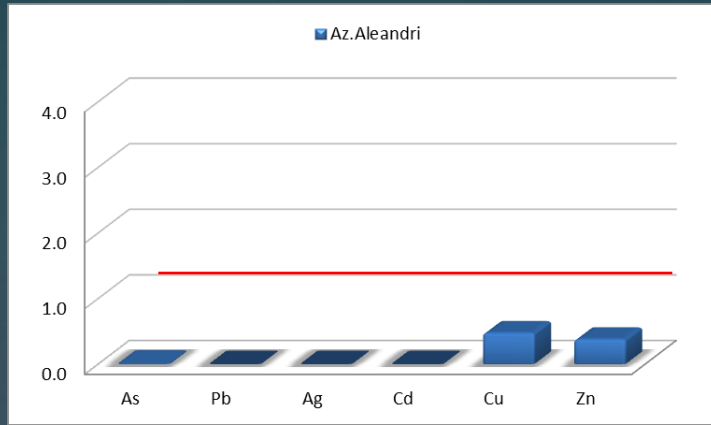
Elemento	Concentrazione (ppm)	Norma Legislativa
As	2	OIV(2005)
Pb	0,2	Reg. CE 1881/2006; Reg. CE 466/2001
Hg	0,5	OIV(2005)
Cd	0,5	OIV(2005)
Zn	5	Art. 1 del D.M. del 29/12/1986
Cu	1	Art. 1 del D.M. del 29/12/1986
Br	1	Art. 1 del D.M. del 29/12/1986

**Art.1 del D.M. 29/12/1986 – OIV(2005) – CE 1881/2006 UVE**

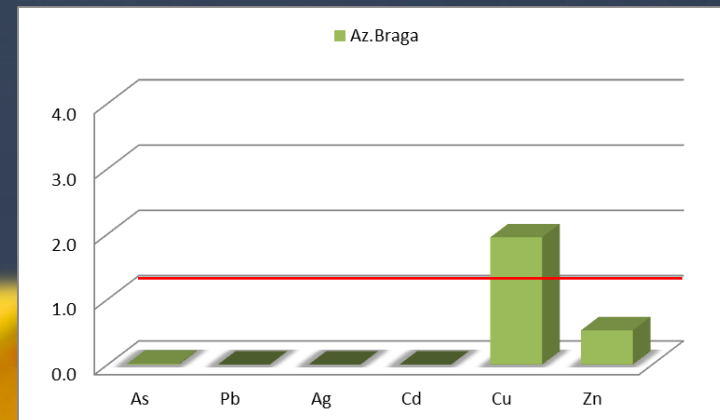
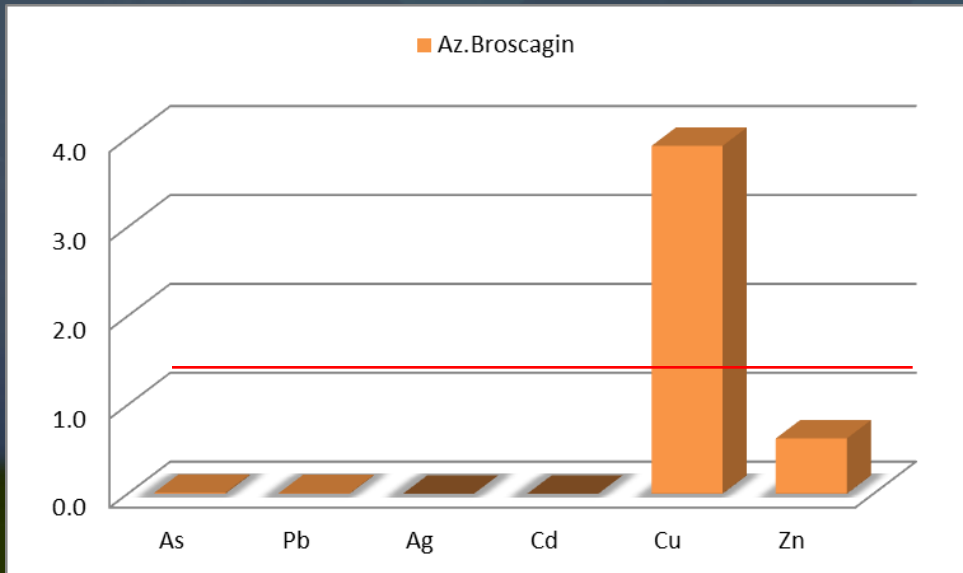
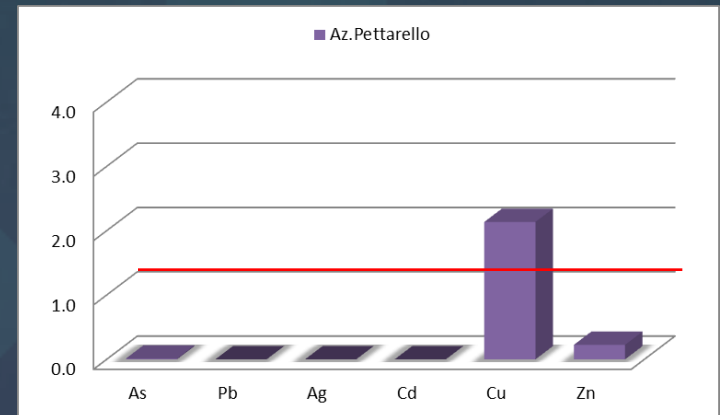
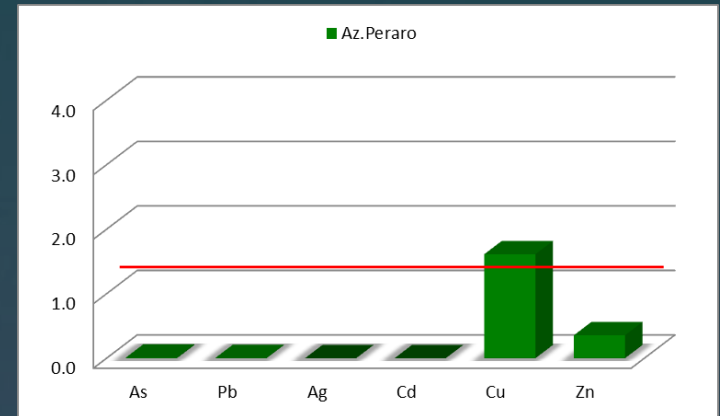
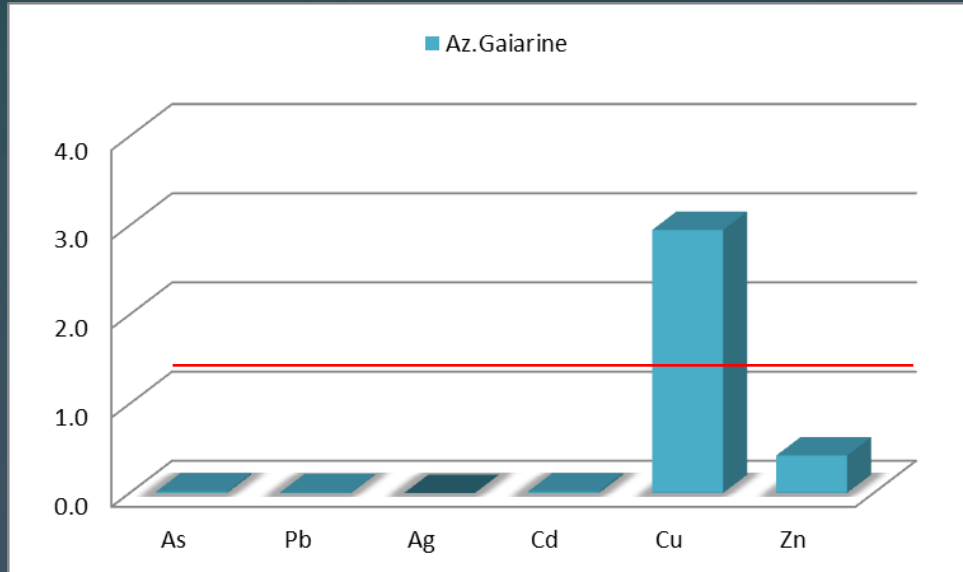




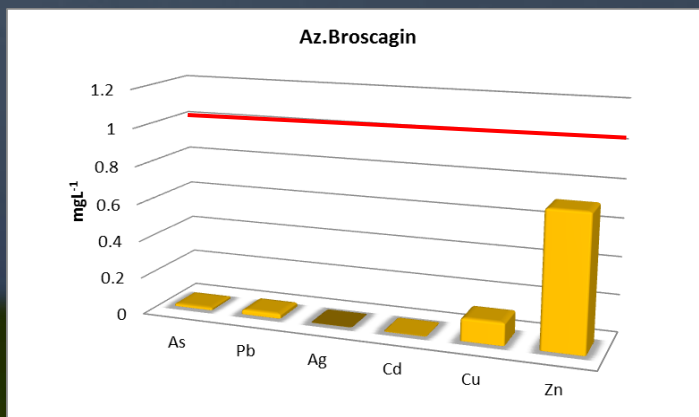
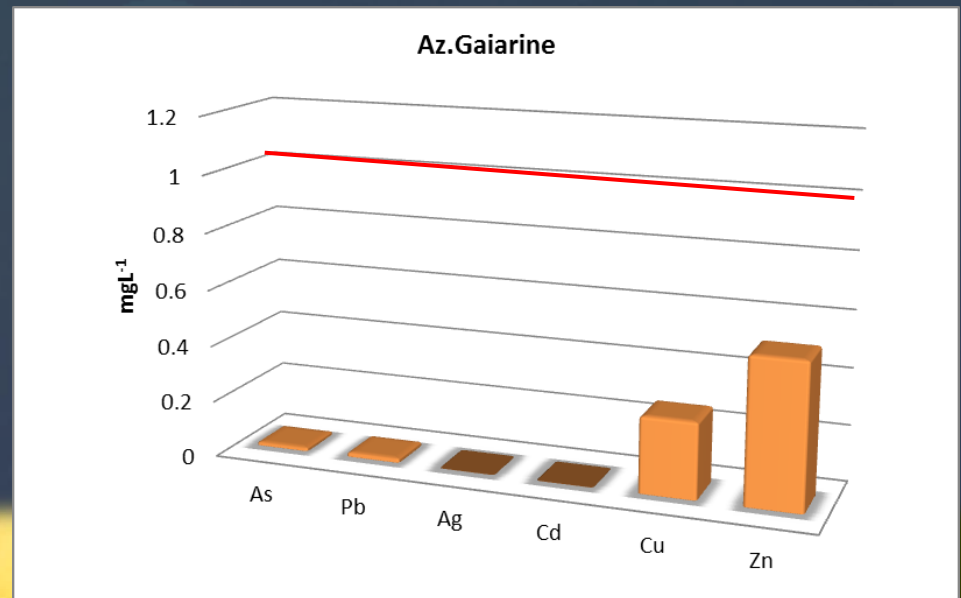
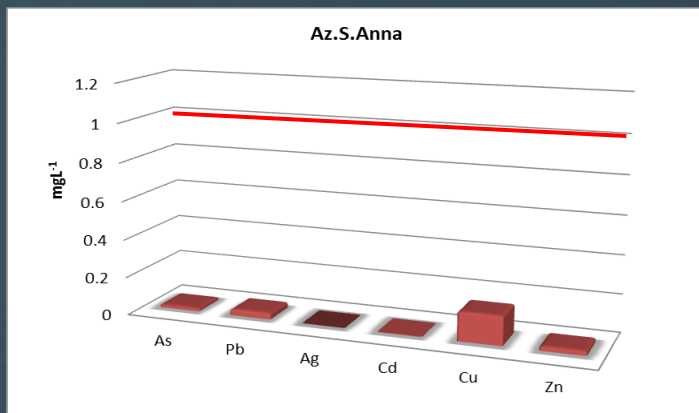
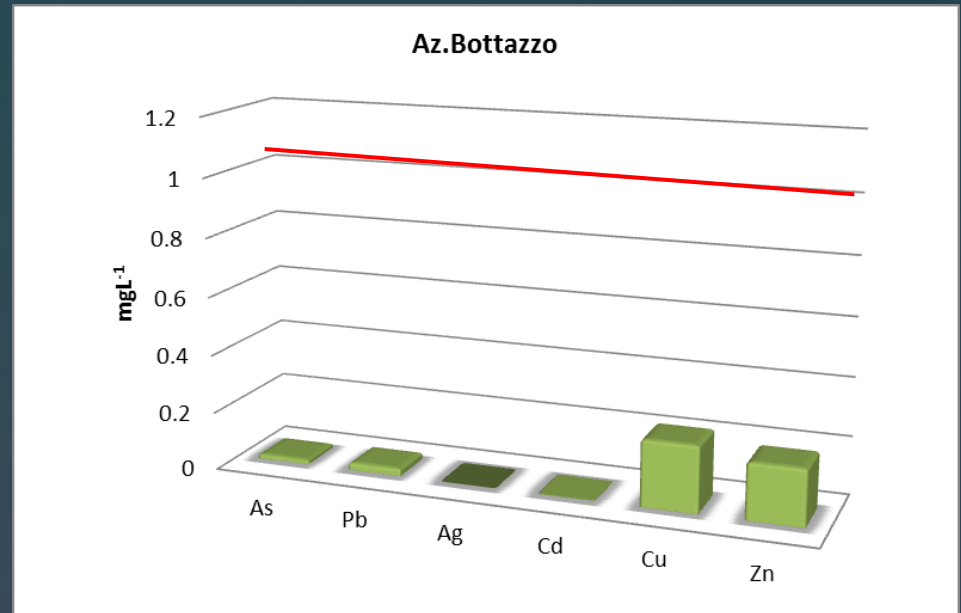
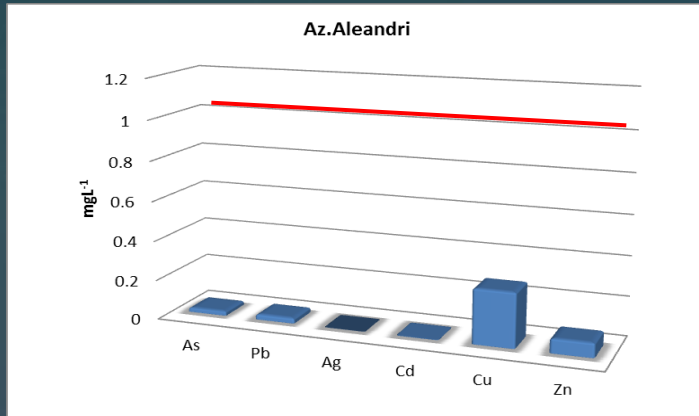
# NORMATIVE DI RIFERIMENTO SUCCO



# NORMATIVE DI RIFERIMENTO SUCCO

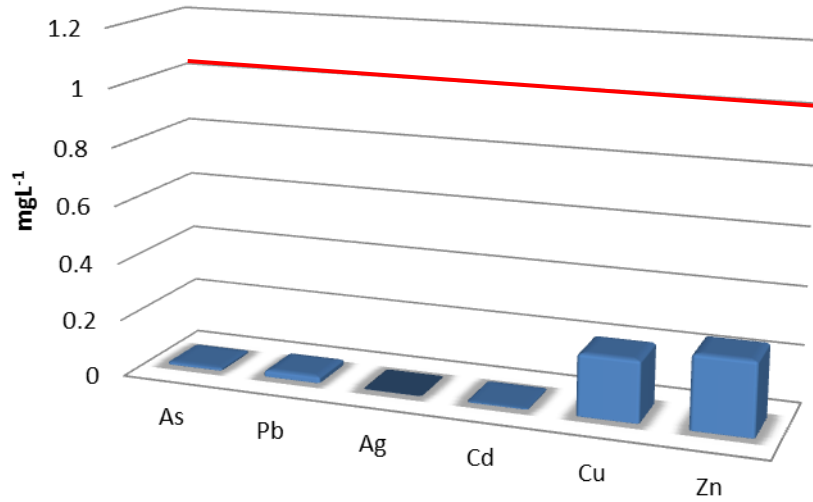


# NORMATIVE DI RIFERIMENTO VINO

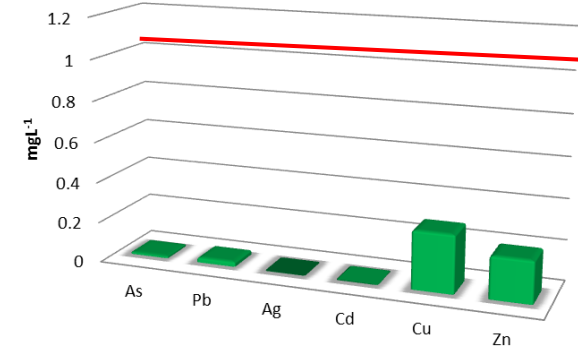


# NORMATIVE DI RIFERIMENTO VINO

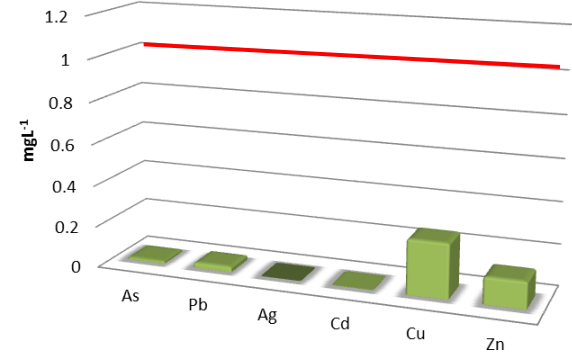
## Az. Pettarello



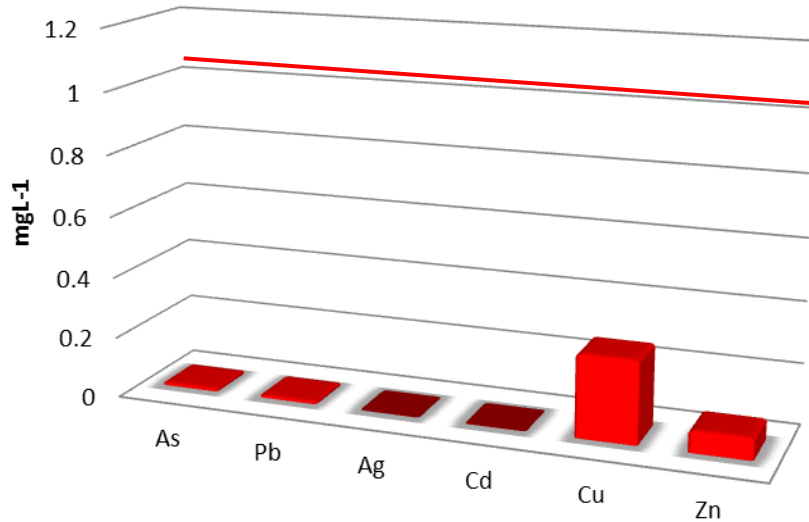
## Az. Peraro



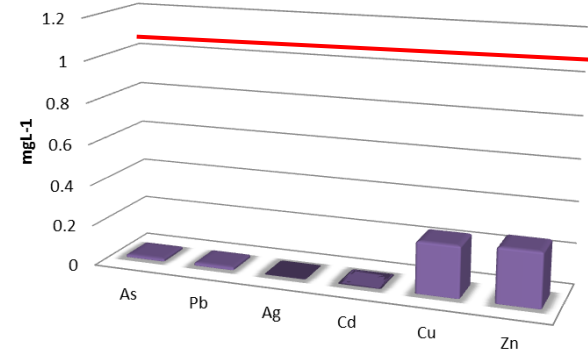
## Az. Braga



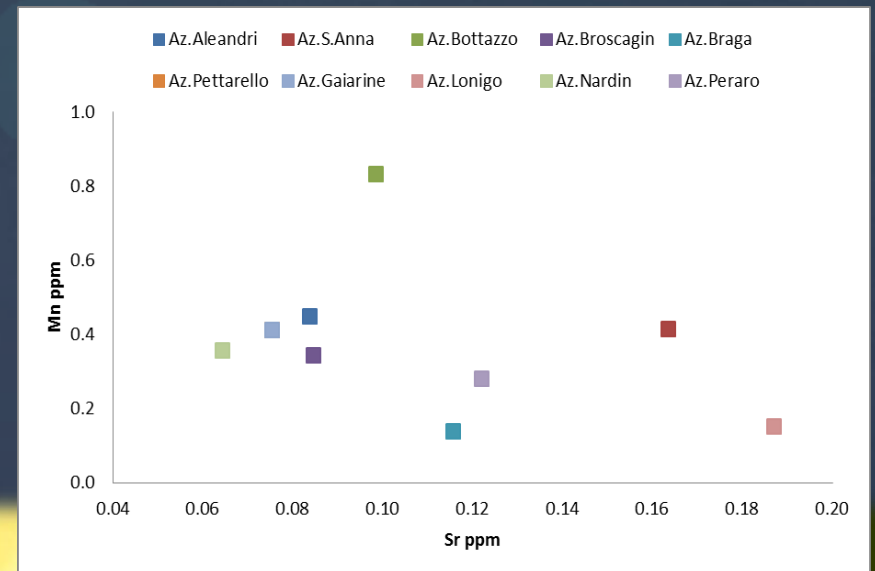
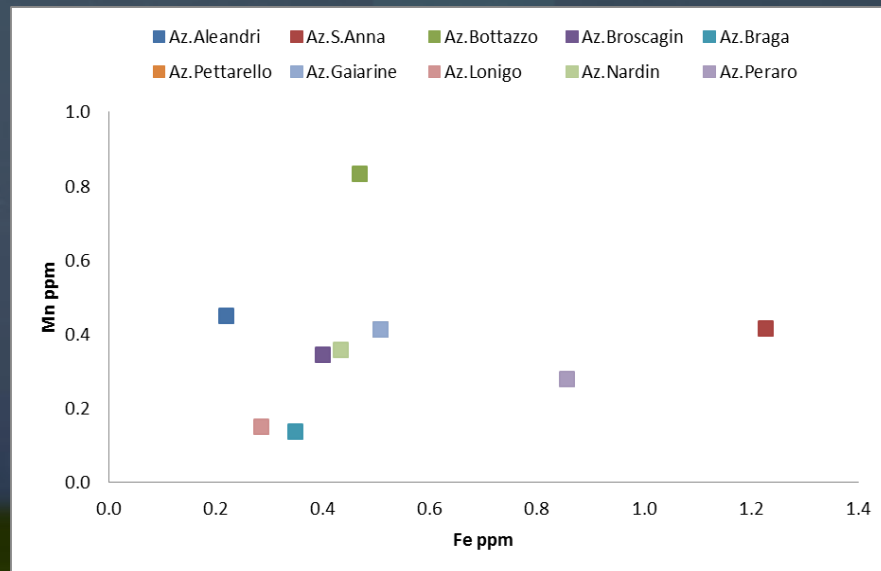
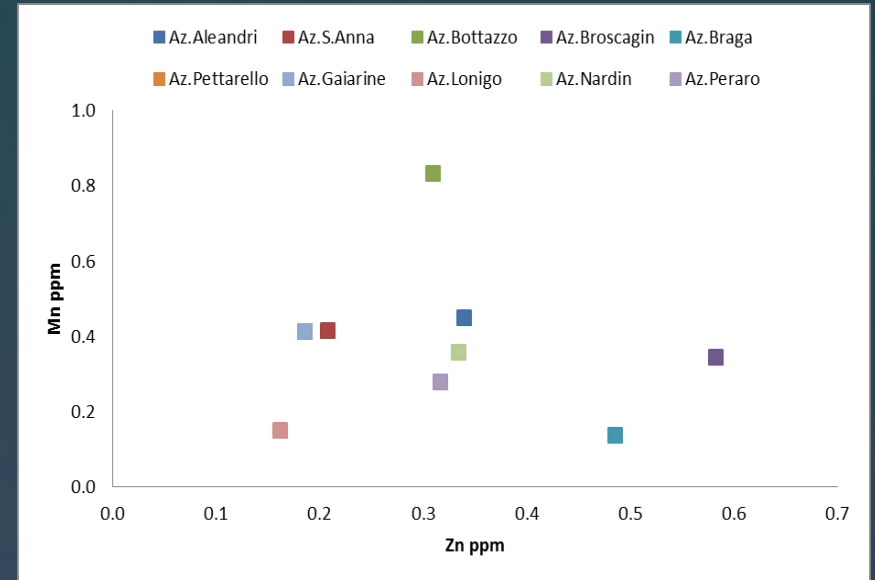
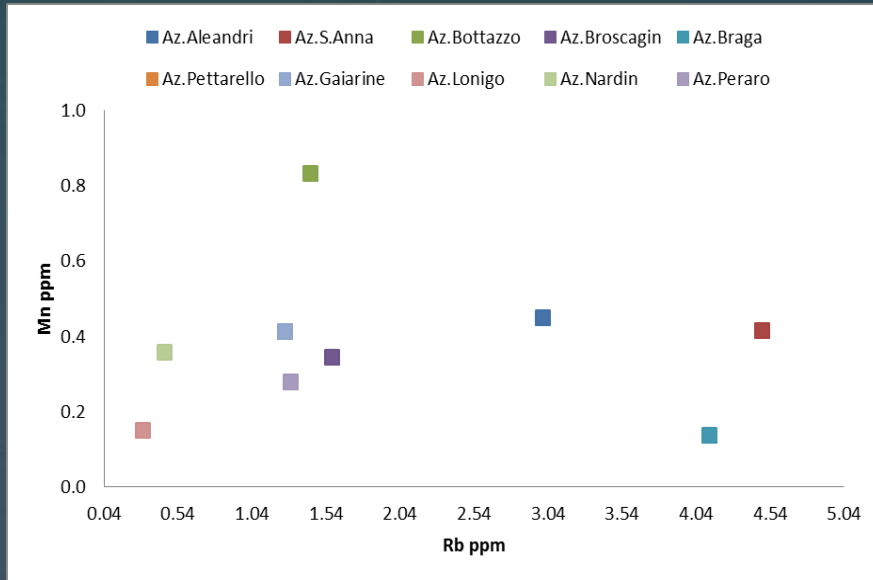
## Az. Nardin



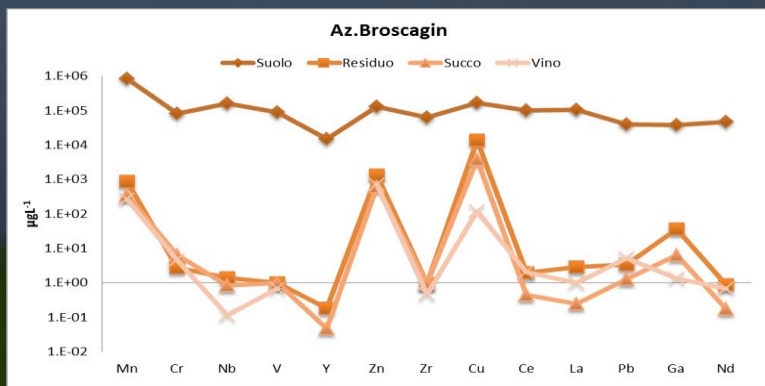
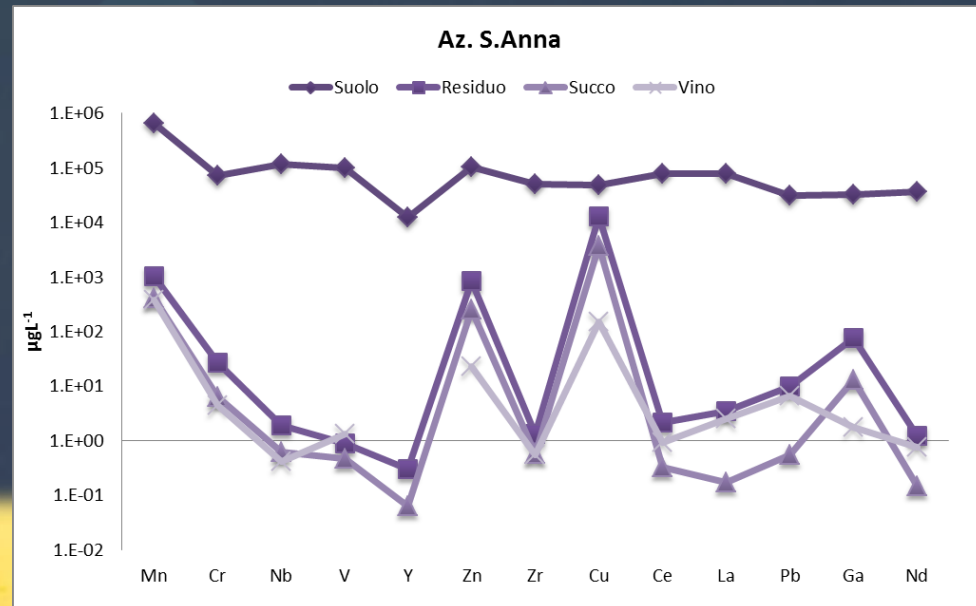
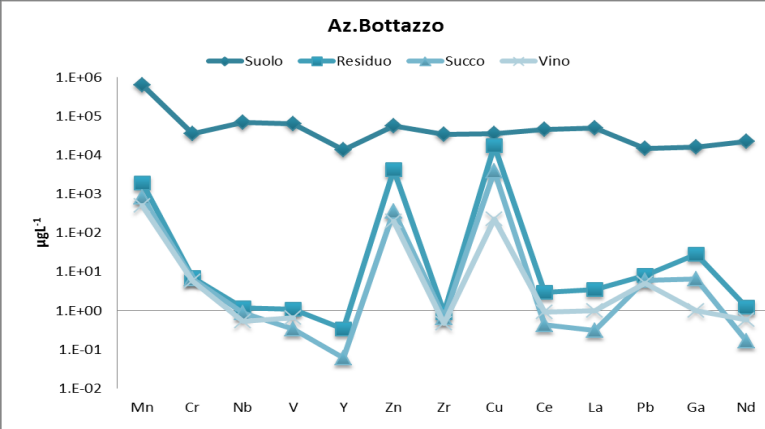
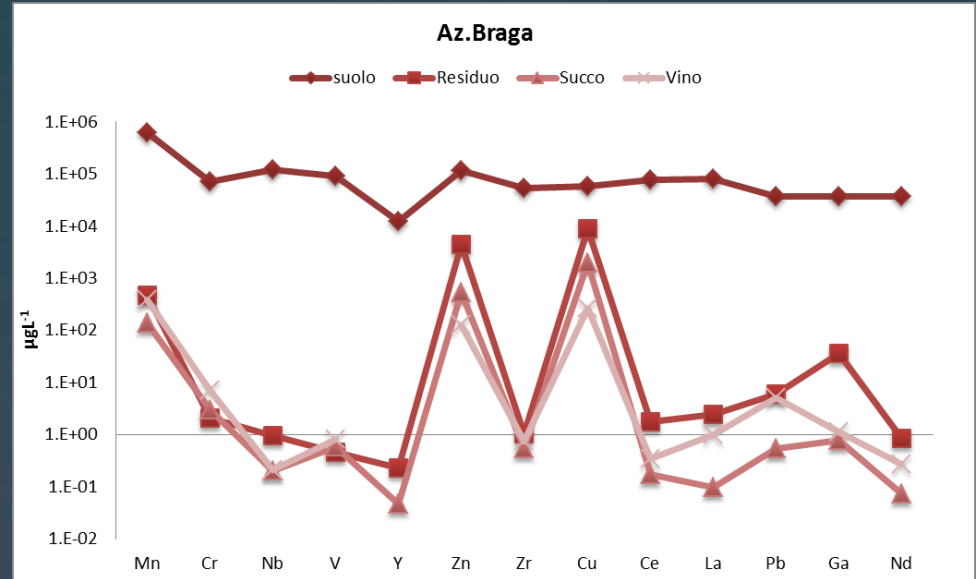
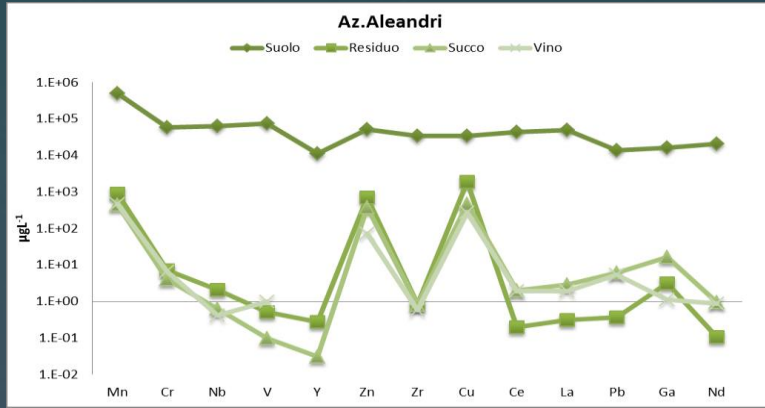
## Az. Lonigo



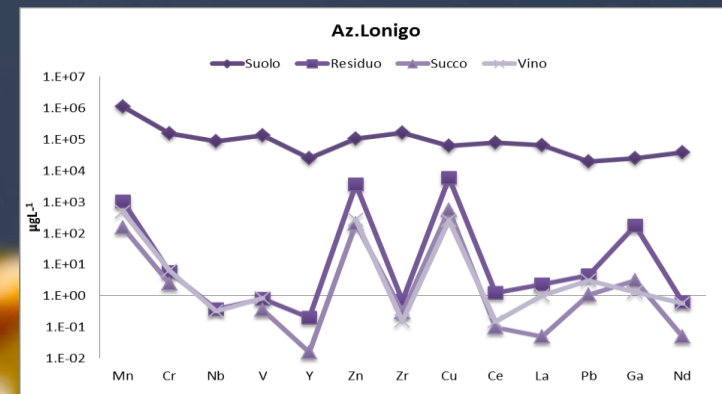
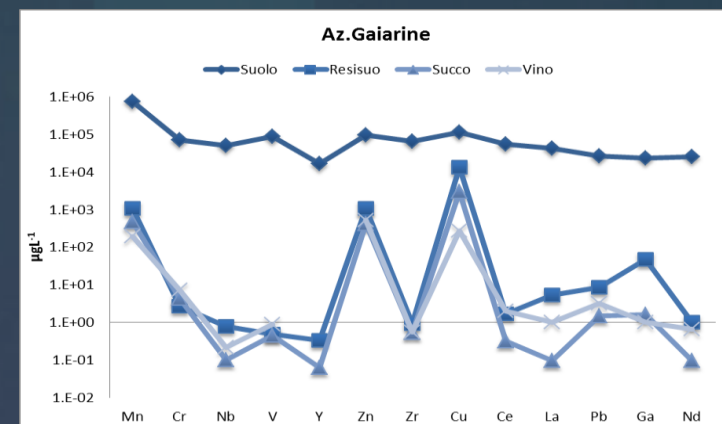
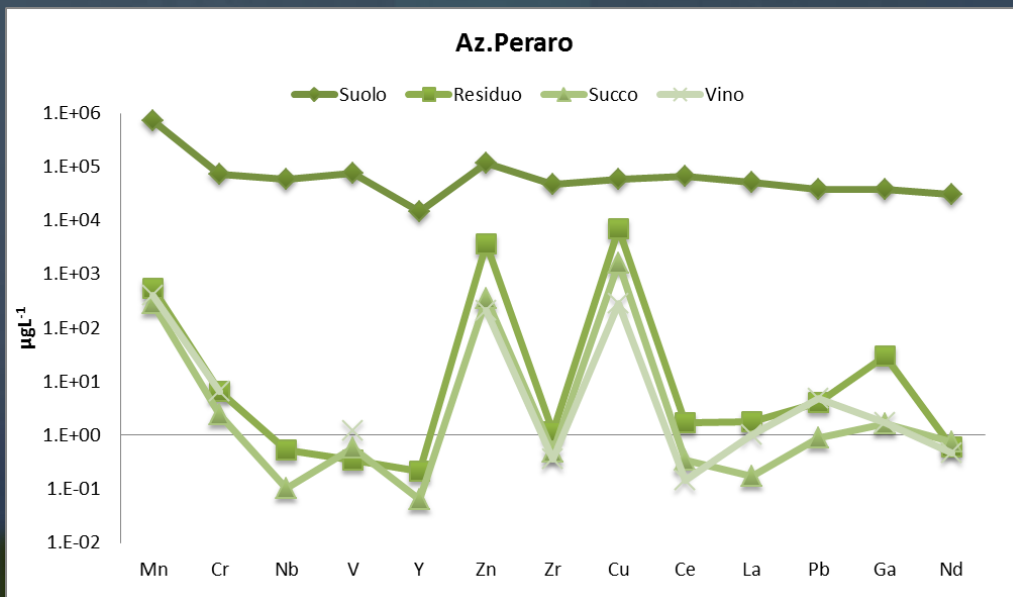
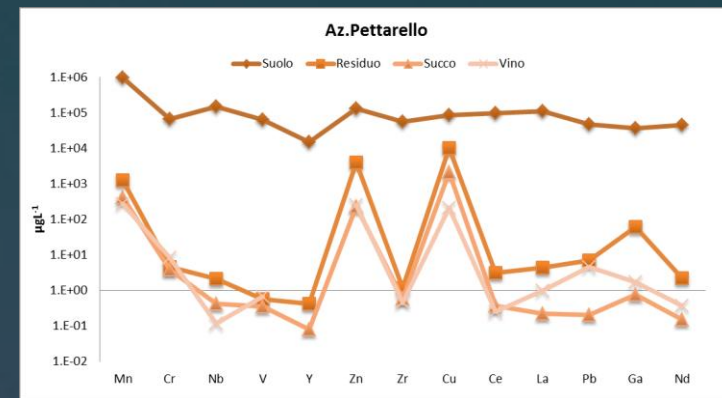
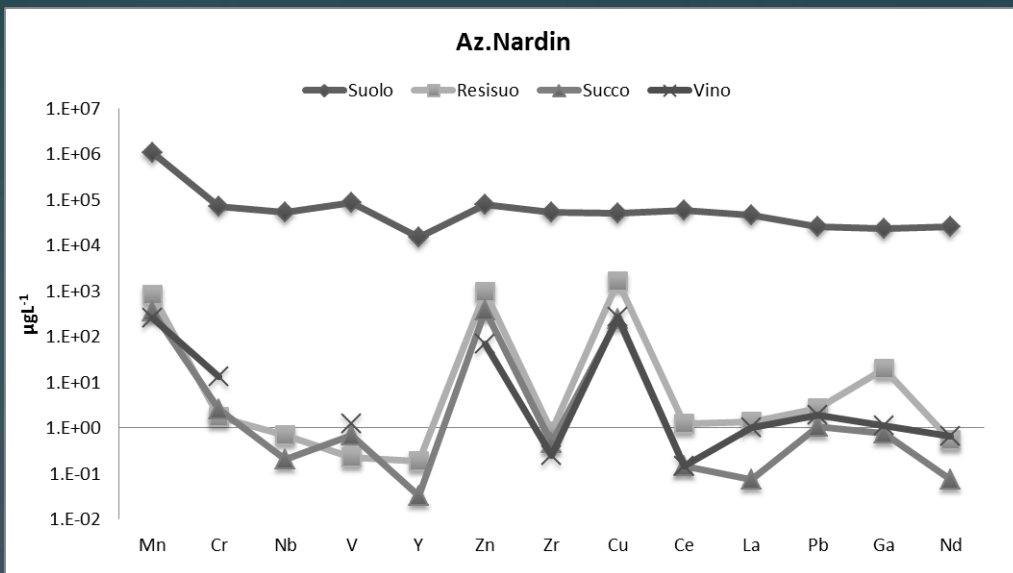
# RELAZIONE TRA MICRO ELEMENTI NEL SUCCO



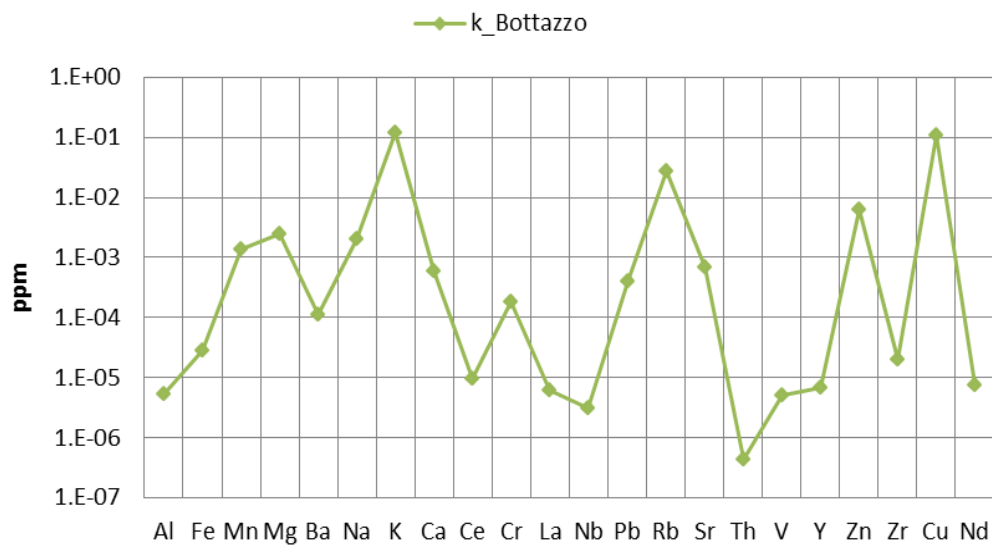
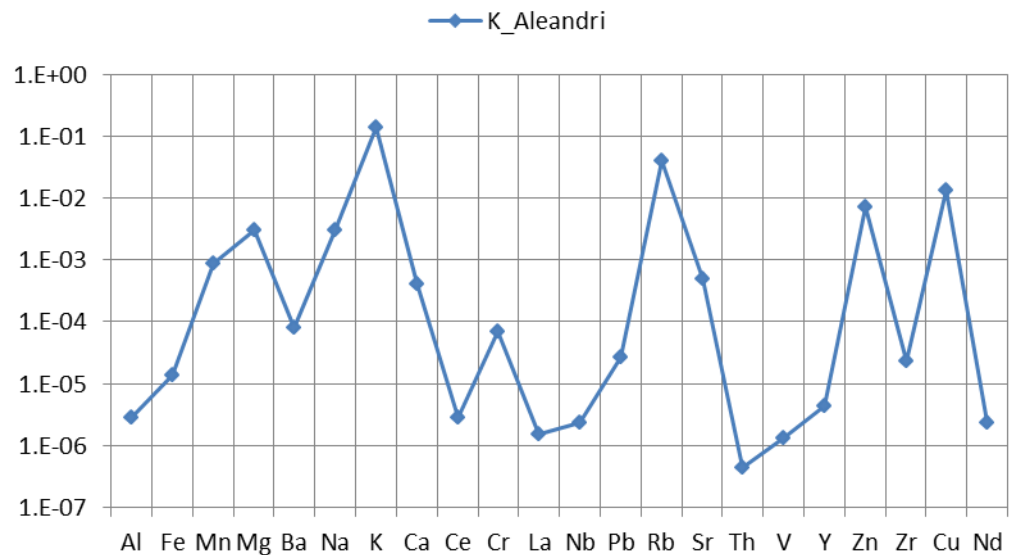
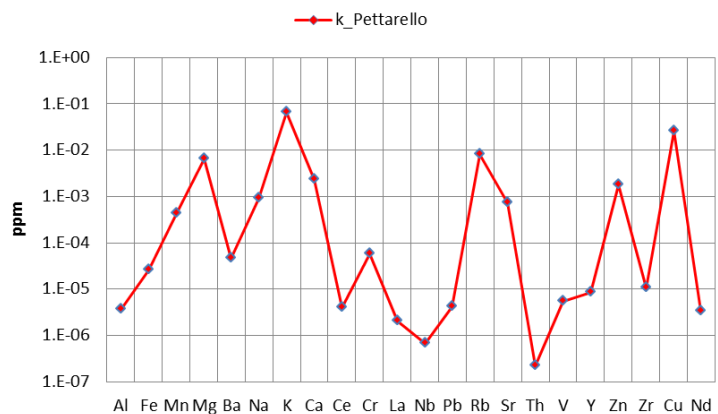
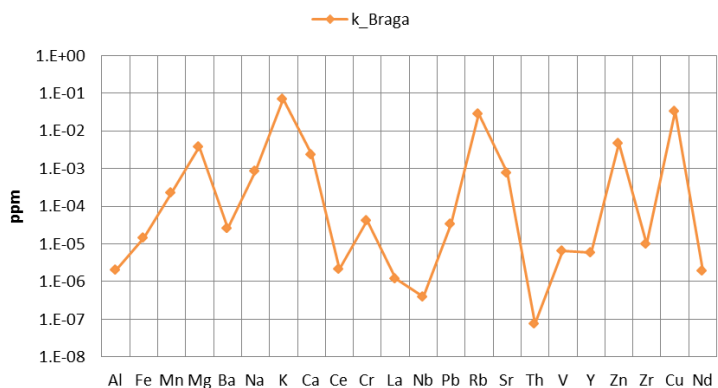
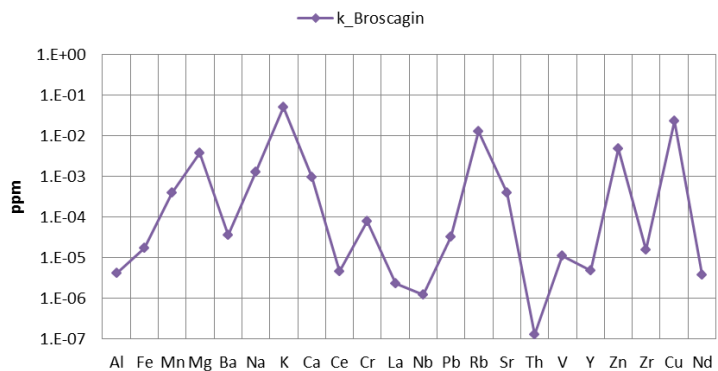
# MACRO-MICRO ELEMENTI SUOLO-RESIDUO-SUCCO-VINO



# MACRO-MICRO ELEMENTI SUOLO-RESIDUO-SUCCO-VINO

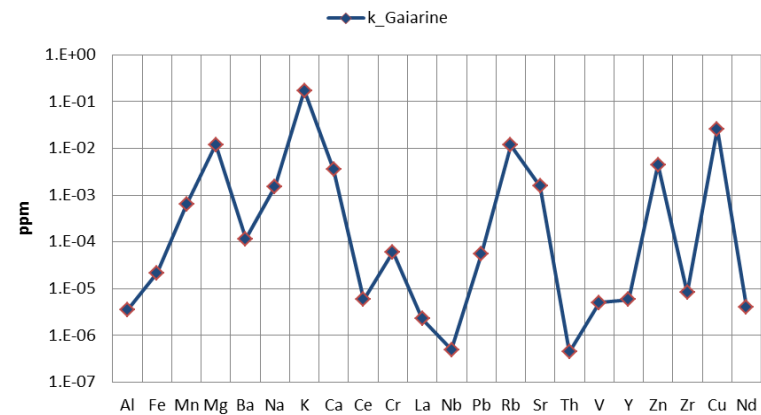
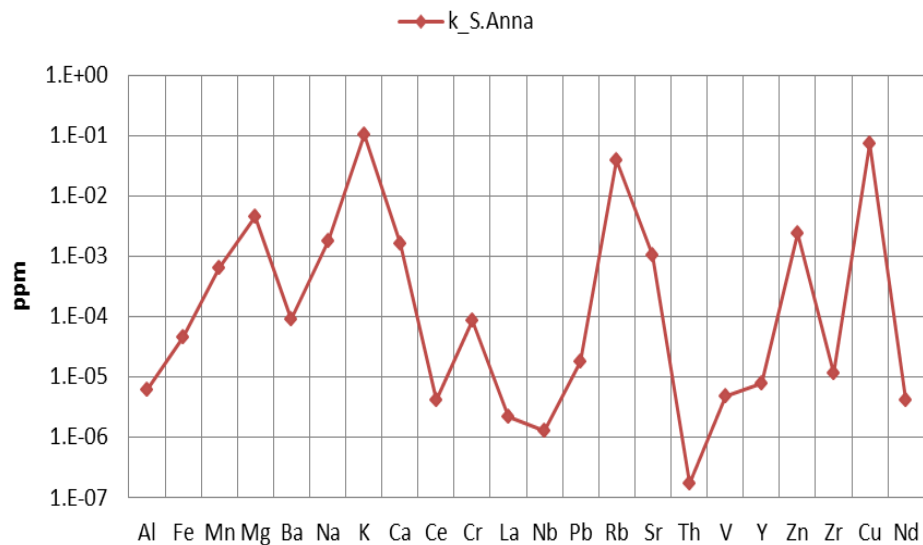
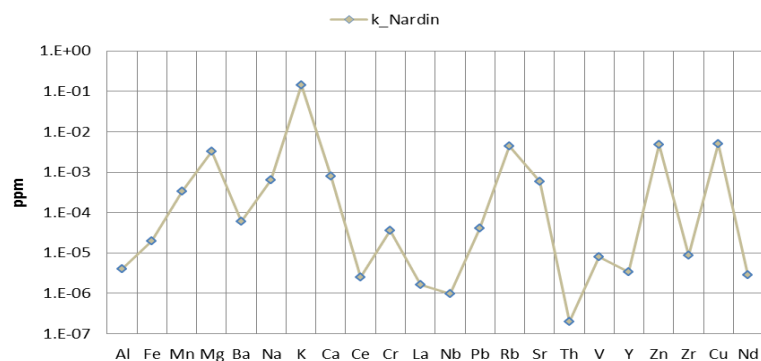
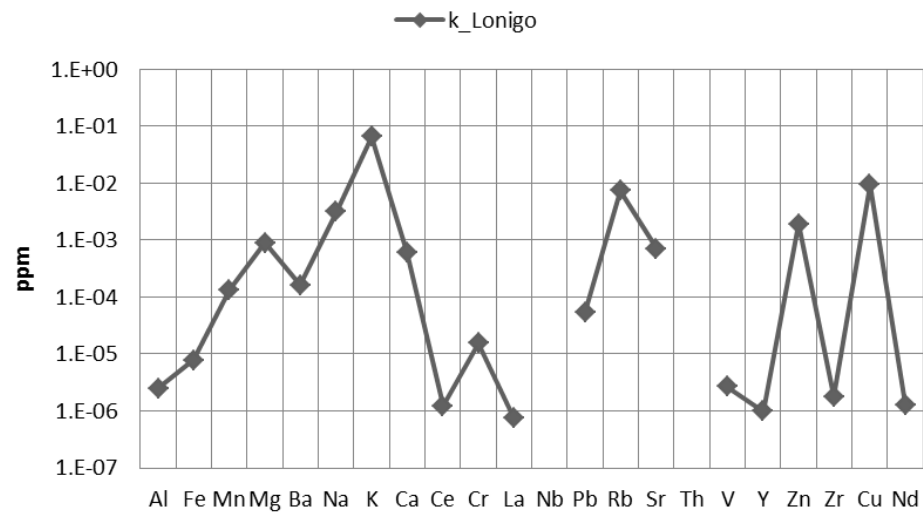
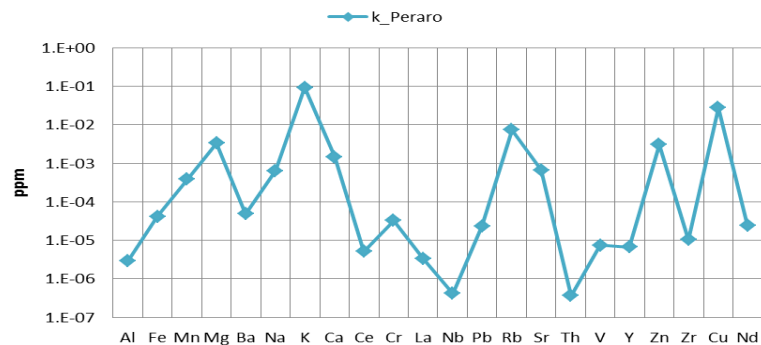


# COEFFICIENTE DI ASSIMILAZIONE SUCCO/SUOLO





# COEFFICIENTE DI ASSIMILAZIONE SUCCO/SUOLO



# CONCLUSIONI

Lo studio ha consentito di verificare le potenzialità della geochimica nella identificazione dell'origine.

La bassa dispersione granulometrica, riscontrata dall'analisi tessiturale, fa rientrare le aree indagate nei parametri previsti dall' Art. 9 (D.M 17 Luglio 2009) del disciplinare di produzione della DOC dei vini «PROSECCO», che nel legame con l'ambiente geografico evidenzia suoli con una tessitura argillosa-limosa, in modo da garantire il mantenimento e la corretta disponibilità dei macro e microelementi

Attraverso la comparazione degli elementi maggiori e in traccia è stato possibile discriminare i suoli dei vari campi sperimentali e i caratteri geochimici distintivi



# CONCLUSIONI

Sono state determinate le concentrazioni di sei metalli (As, Pb, Cd, Zn, Cu) in base al D.M 29/12/1986. Tutti i campioni di succo d'uva presentano valori di concentrazione entro i limiti di legge.

L'identificazione delle caratteristiche geochimiche dei cultivar può consentire tramite i bilanci di massa di verificare i tagli dichiarati per la produzione dei vini quindi identificare eventuali frodi.

Infine conoscendo i fattori di assimilazione dei vari cultivar si possono identificare eventuali correzioni con prodotti chimici.

