Supplementary material for the paper entitled

Down by the seaside: new data on lithic provisioning by early Upper Palaeolithic populations in the central Mediterranean Iberian coast

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Introduction to the supplementary material

This supplementary material, for the paper entitled *Down by the seaside: new data on early Upper Palaeolithic populations in the eastern Prebaetic coastal areas (eastern Iberia)*, consists exclusively on the extended data provided by the scanning-electron microscopic (i.e. SEM) procedure conducted in order to characterise a siliceous lithotype appeared in the analysed assemblages that was unknown in the study area until date. It will be structured by sample, and all data regarding each will be shown. As it is indicated in the main text, this analysis was performed at Unitat de Microscopia of Serveis Tècnics d'Investigació of Universitat d'Alacant (i.e. SSTTI).

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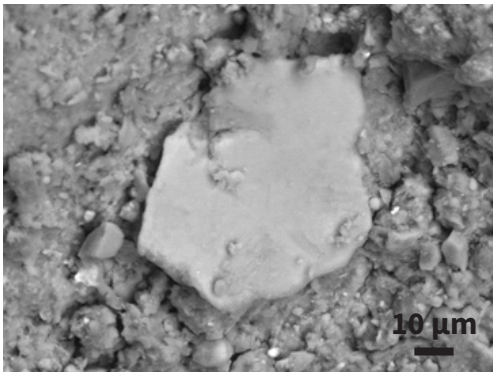
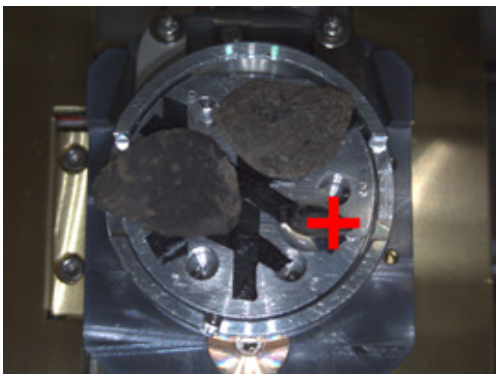
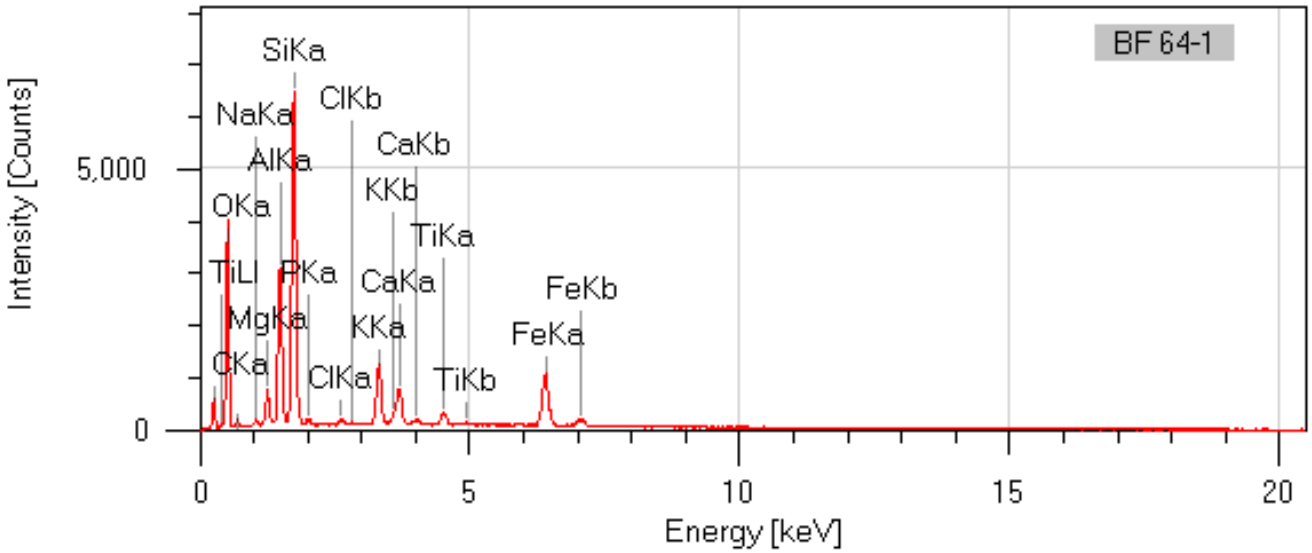
Below, samples are, from top to bottom, BF93, BF64, and BF213.

Sample BF64 - DXS: BF64-1 - Iron-mineral particle

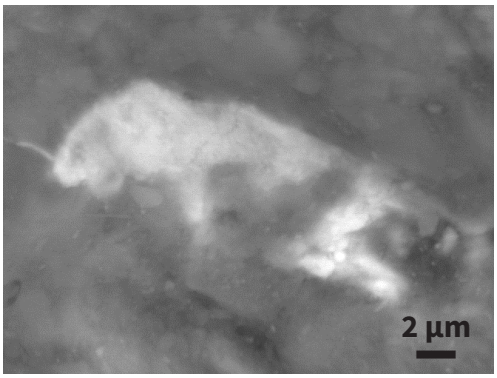


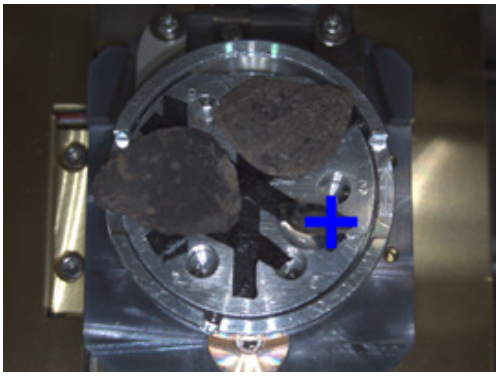


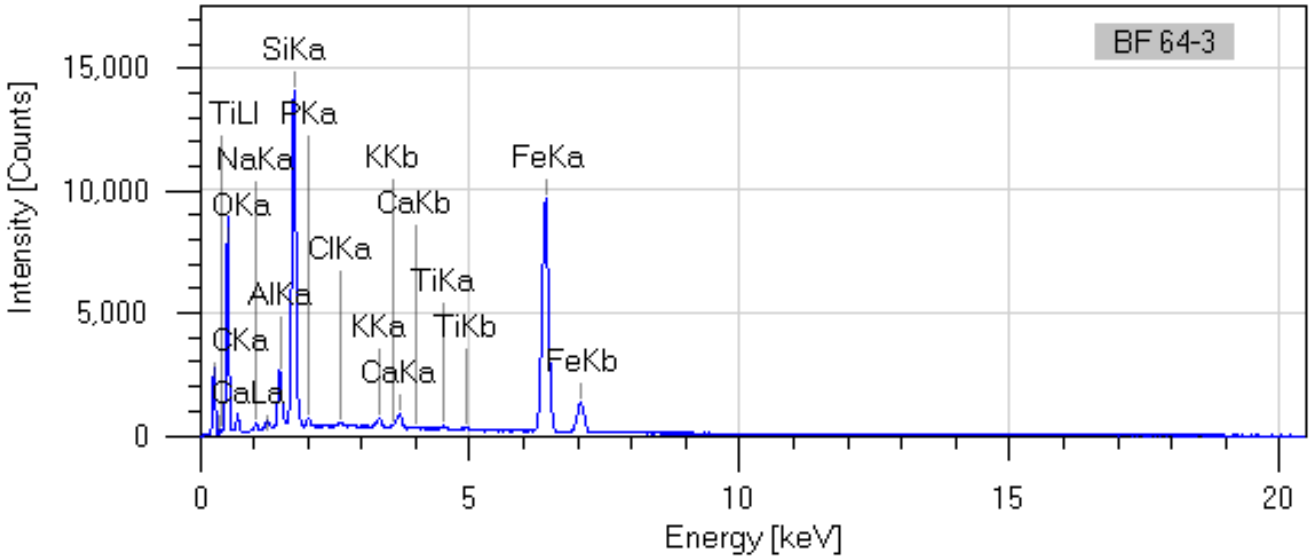


Element	Line	Mass (%)	Atom (%)
C	K	11.29±0.09	19.59±0.16
O	K	37.67±0.20	49.07±0.26
Na	K	0.42±0.02	0.38±0.02
Mg	K	2.06±0.03	1.76±0.03
Al	K	8.07±0.06	6.23±0.05
Si	K	17.22±0.09	12.77±0.07
P	K	0.42±0.02	0.28±0.01
Cl	K	0.37±0.02	0.22±0.01
K	K	4.78±0.05	2.54±0.03
Ca	K	3.07±0.05	1.60±0.02
Ti	K	1.52±0.04	0.66±0.02
Fe	K	13.11±0.12	4.89±0.04
Total		100	100
BF64-1 - Fitting ratio 0.0706			

Sample BF64 - DXS: BF64-2 - Iron-mineral particle

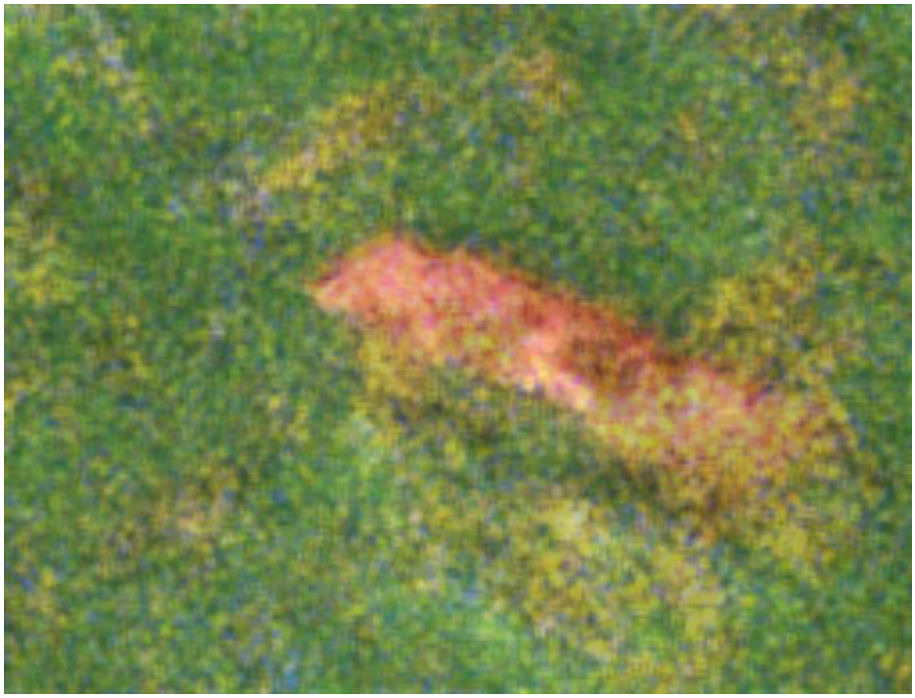






Element	Line	Mass (%)	Atom (%)
C	K	15.53±0.06	31.08±0.12
O	K	23.08±0.08	34.68±0.12
Na	K	0.60±0.02	0.63±0.02
Mg	K	0.33±0.01	0.33±0.01
Al	K	2.35±0.02	2.09±0.02
Si	K	13.43±0.05	11.49±0.04
P	K	0.49±0.01	0.38±0.01
Cl	K	0.18±0.01	0.13±0.01
K	K	0.51±0.01	0.31±0.01
Ca	K	0.82±0.02	0.49±0.01
Ti	K	0.29±0.01	0.14±0.01
Fe	K	42.38±0.12	18.24±0.05
Total		100	100
BF64-2 - Fitting ratio 0.0524			

Sample BF64 - Map: BF64-2 - Iron-mineral particle



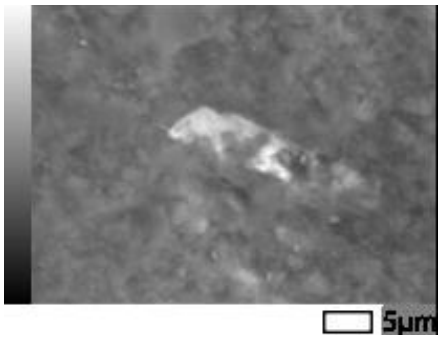
C-K

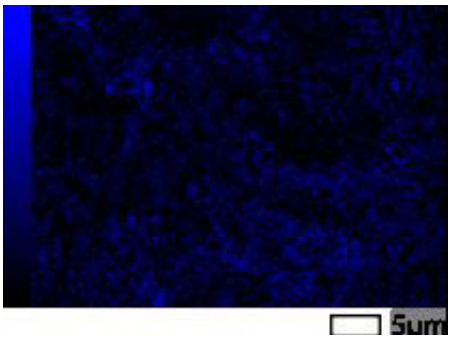
Al-K

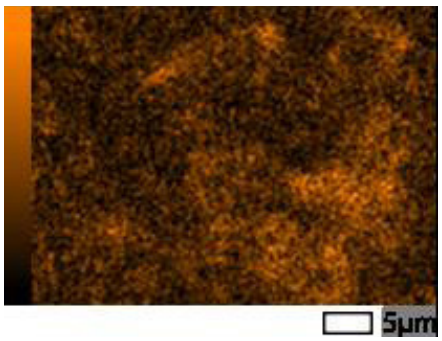
Si-K

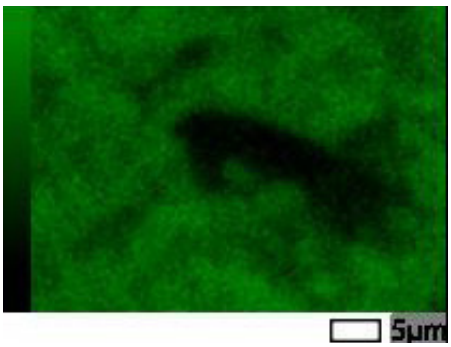
Ca-K

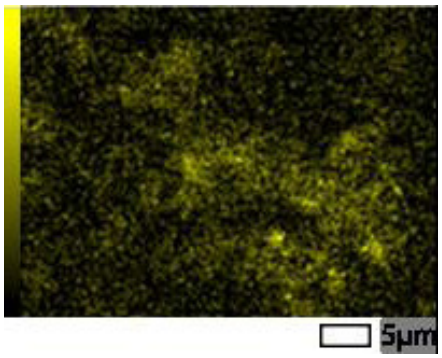
Fe-K

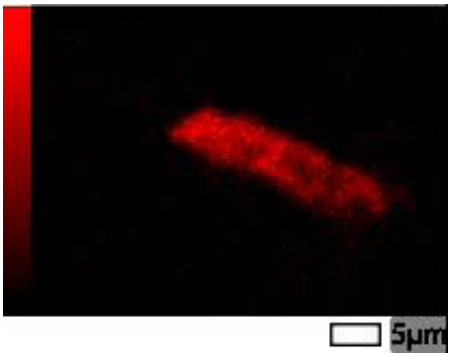




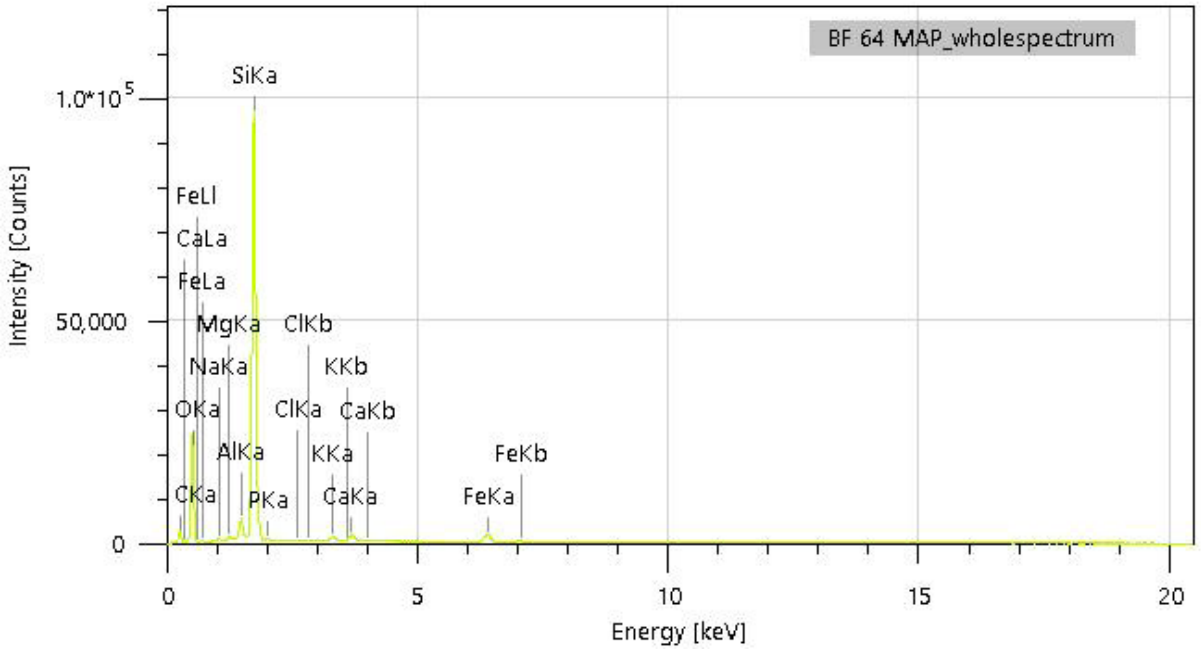






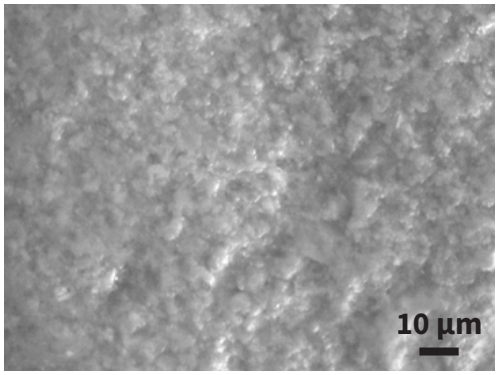


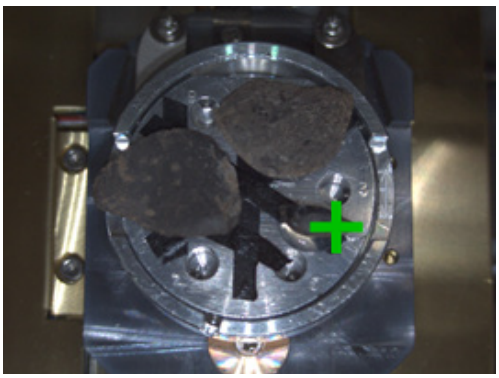
Sample BF64 - Map: BF64-2 - Iron-mineral particle (continued)

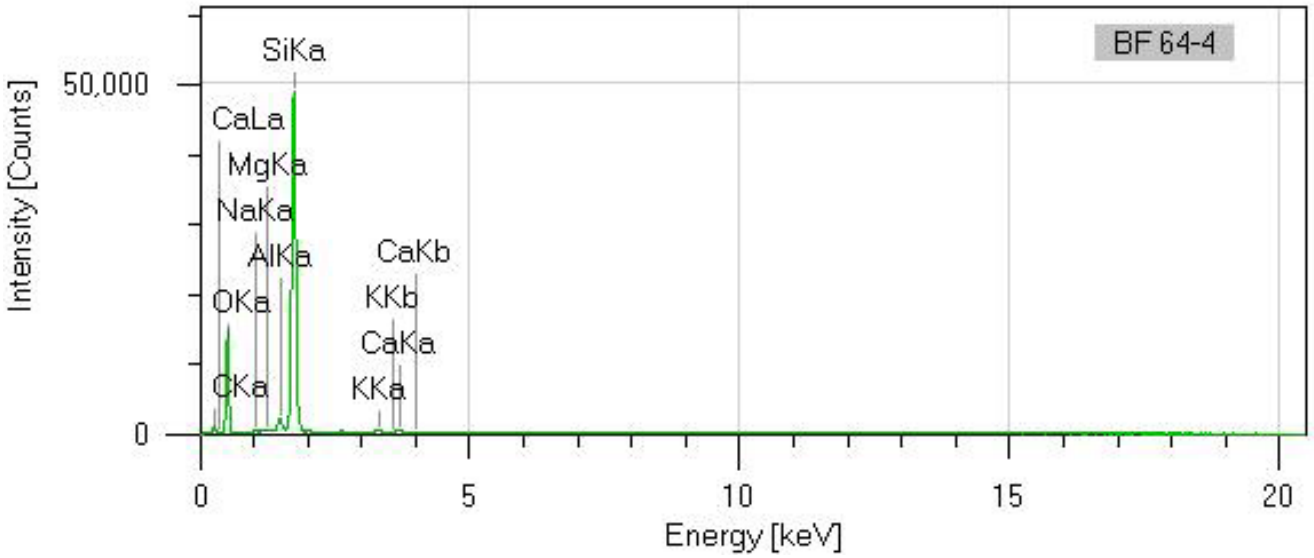


Element	Line	Mass (%)	Atom (%)
C	K	14.27±0.05	22.89±0.09
O	K	38.60±0.08	46.47±0.10
Na	K	0.39±0.01	0.33±0.01
Mg	K	0.31±0.01	0.24±0.01
Al	K	1.73±0.01	1.23±0.01
Si	K	38.06±0.05	26.10±0.04
P	K	0.56±0.01	0.35±0.01
Cl	K	0.15±0.01	0.08±0.00
K	K	0.73±0.01	0.36±0.01
Ca	K	1.14±0.01	0.55±0.01
Fe	K	4.06±0.03	1.40±0.01
Total		100	100
BF64-2 Map (whole spectrum) - Fitting ratio 0.0604			

Sample BF64 - DXS: BF64-3 - Siliceous matrix

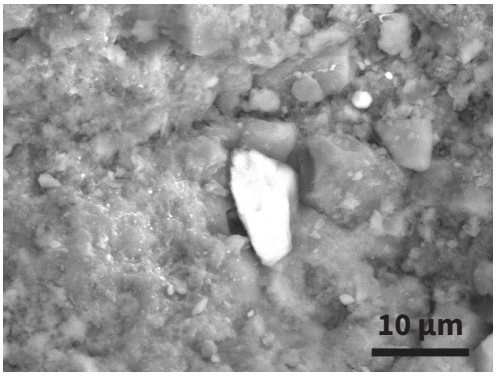


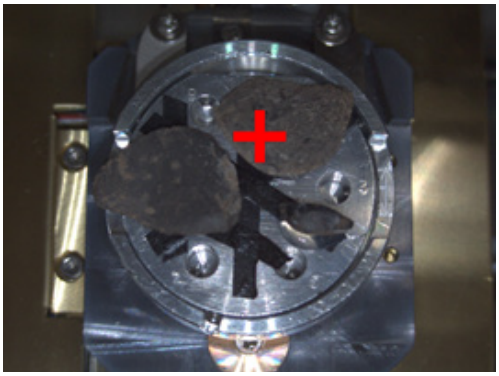


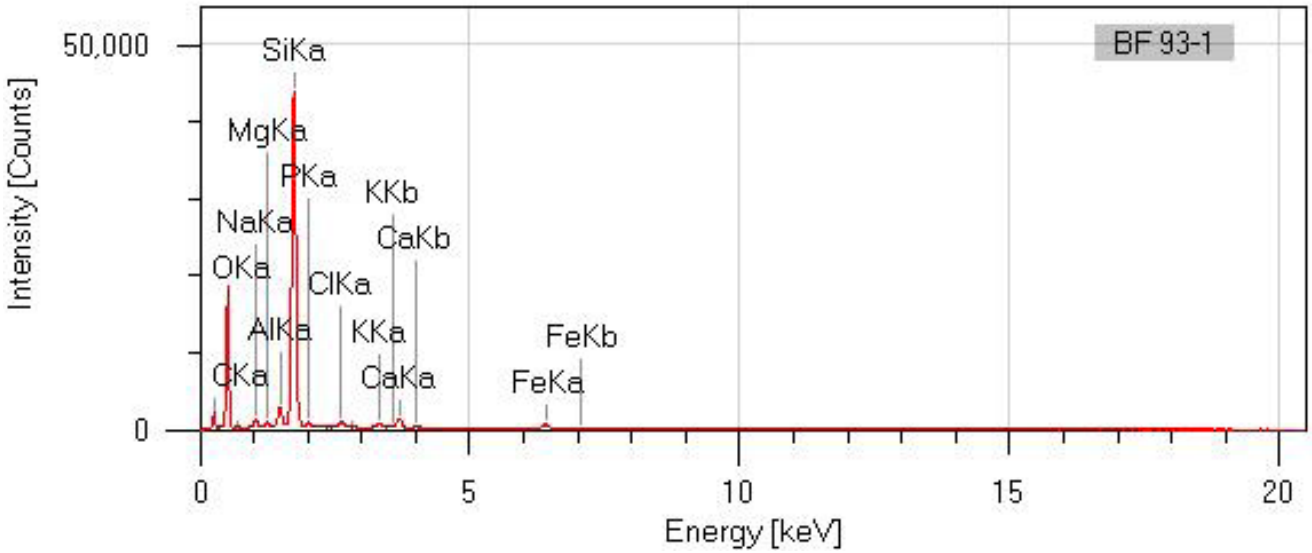


Element	Line	Mass (%)	Atom (%)
C	K	12.33±0.07	19.16±0.11
O	K	45.17±0.12	52.68±0.15
Na	K	0.25±0.01	0.20±0.01
Mg	K	0.21±0.01	0.16±0.01
Al	K	1.25±0.02	0.87±0.01
Si	K	39.90±0.07	26.51±0.05
K	K	0.45±0.01	0.21±0.01
Ca	K	0.44±0.01	0.21±0.01
Total		100	100
BF64-3 - Fitting ratio 0.0706			

Sample BF93 - DXS: BF93-1 - Iron-mineral particle

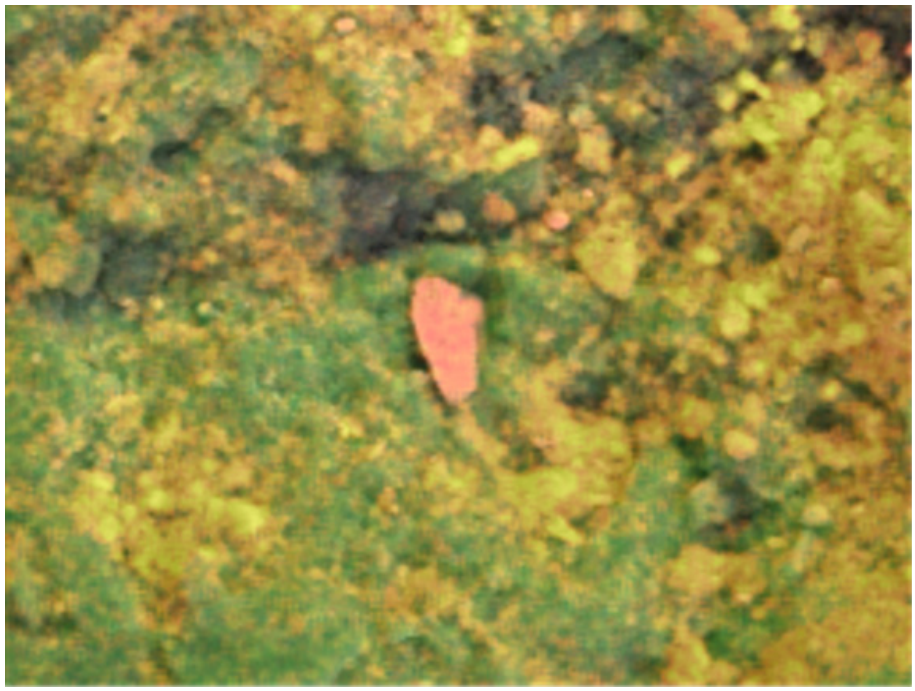






Element	Line	Mass (%)	Atom (%)
C	K	15.15±0.07	23.08±0.10
O	K	46.03±0.11	52.67±0.13
Na	K	1.17±0.02	0.93±0.01
Mg	K	0.37±0.01	0.28±0.01
Al	K	1.61±0.02	1.10±0.01
Si	K	29.63±0.06	19.31±0.04
P	K	0.70±0.01	0.42±0.01
Cl	K	0.80±0.01	0.41±0.01
K	K	0.69±0.01	0.32±0.01
Ca	K	1.70±0.02	0.78±0.01
Fe	K	2.14±0.03	0.70±0.01
Total		100	100
BF93-1 - Fitting ratio 0.0778			

Sample BF93 - Map: BF93-1 - Iron-mineral particle



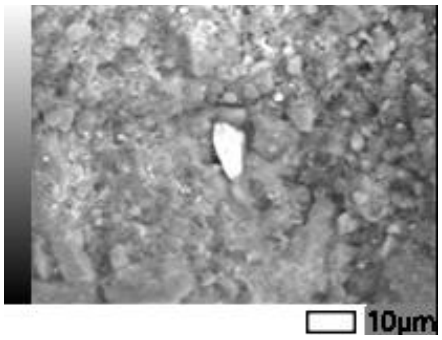
Na-K

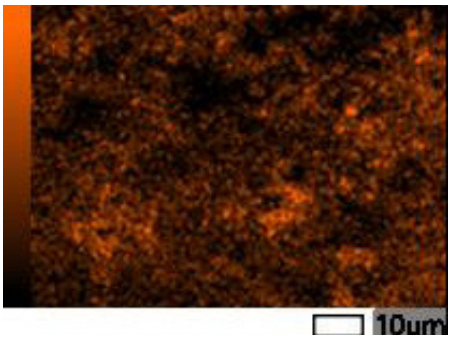
Al-K

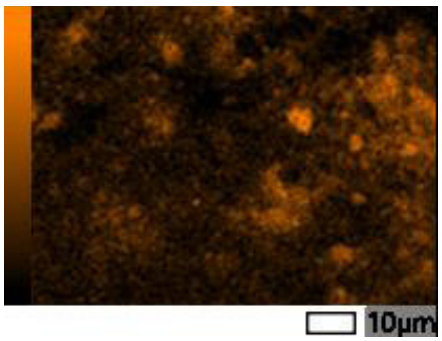
Si-K

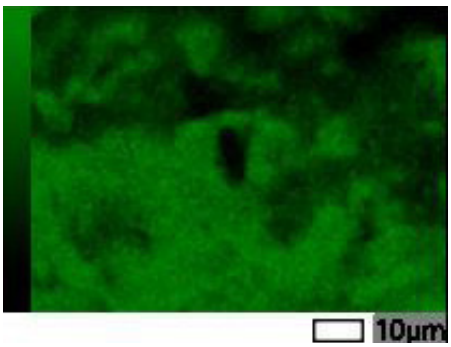
Ca-K

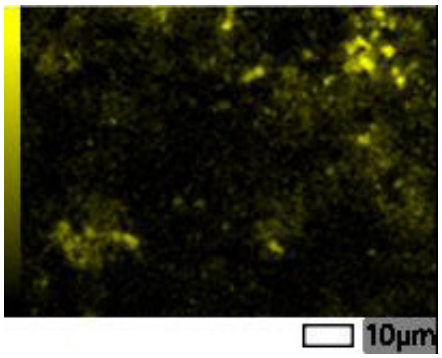
Fe-K

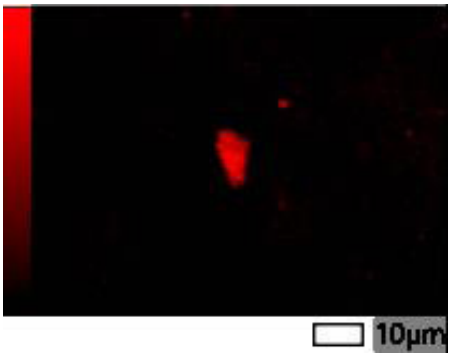




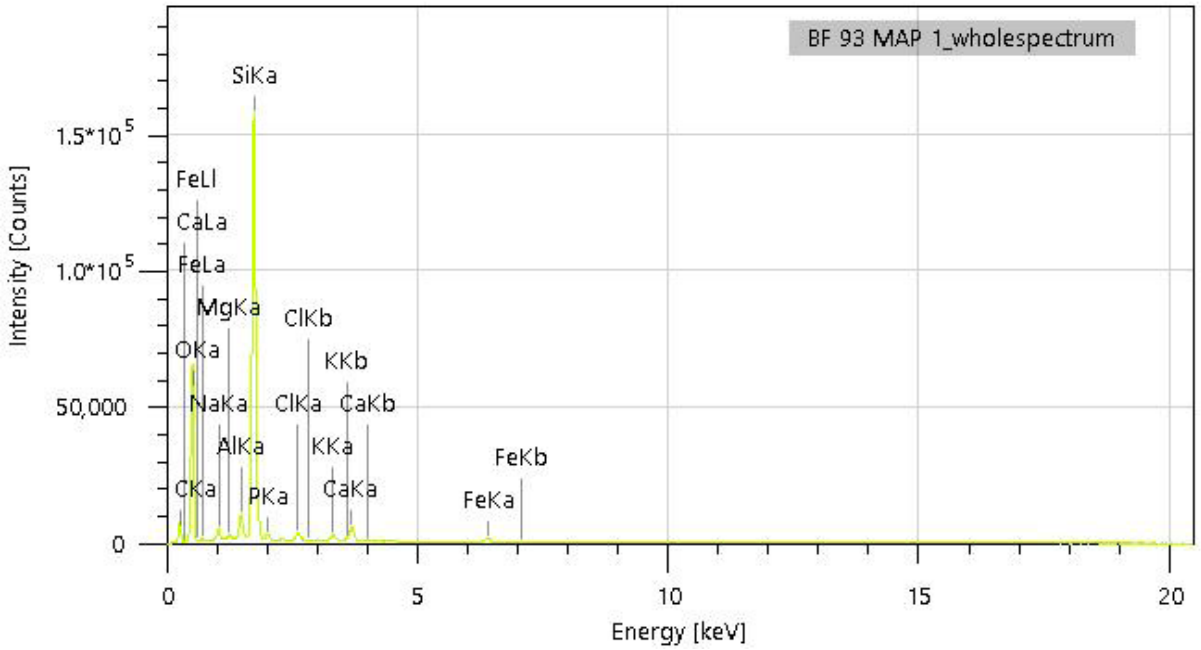






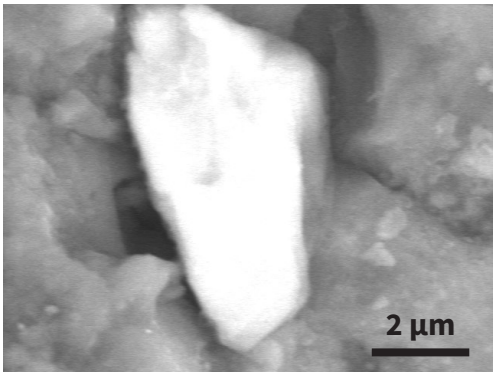


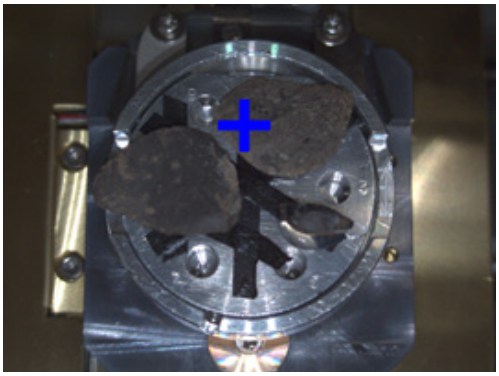
Sample BF93 - Map: BF93-1 - Iron-mineral particle (continued)

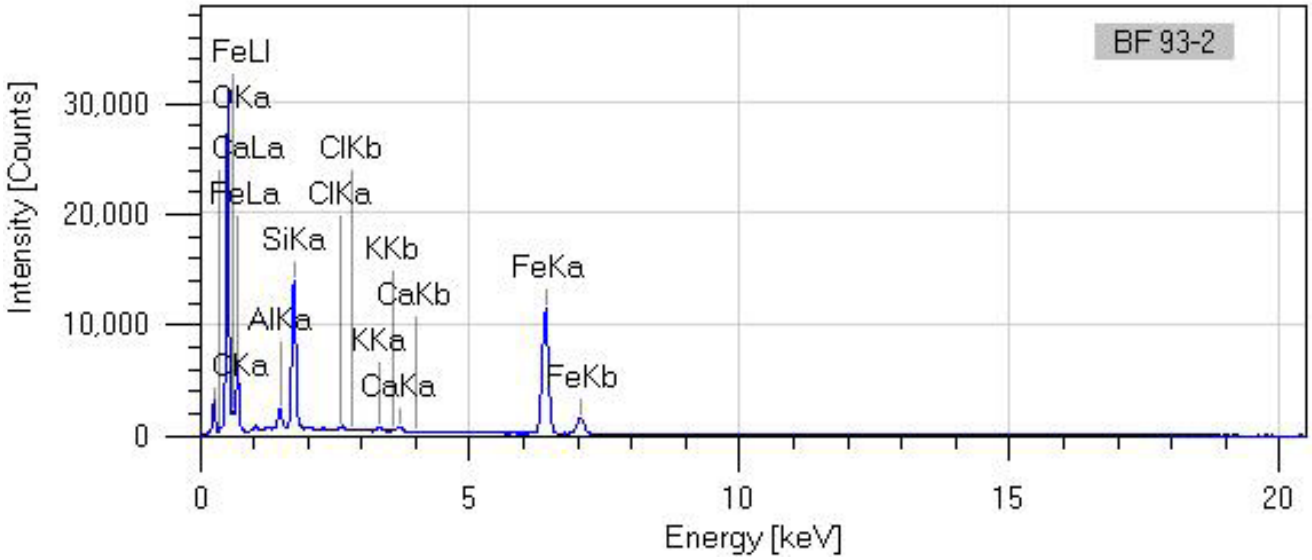


Element	Line	Mass (%)	Atom (%)
C	K	15.19±0.03	23.07±0.05
O	K	46.41±0.06	52.89±0.07
Na	K	1.19±0.01	0.95±0.01
Mg	K	0.37±0.01	0.28±0.00
Al	K	1.65±0.01	1.12±0.01
Si	K	29.48±0.03	19.14±0.02
P	K	0.72±0.01	0.43±0.00
Cl	K	0.81±0.01	0.42±0.00
K	K	0.74±0.01	0.35±0.00
Ca	K	1.95±0.01	0.89±0.00
Fe	K	1.48±0.01	0.48±0.00
Total		100	100
BF93-1 Map (whole spectrum) - Fitting ratio 0.0807			

Sample BF93 - DXS: BF93-2 - Iron-mineral particle zoomed

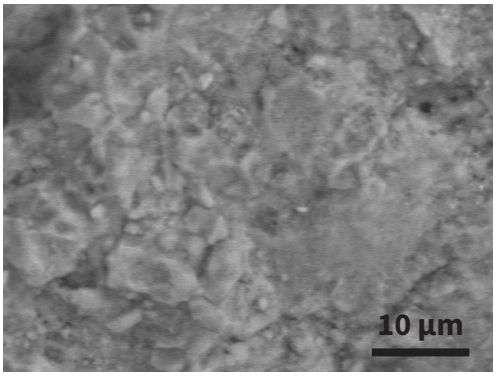


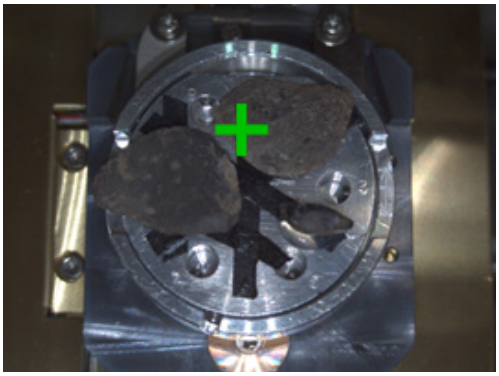


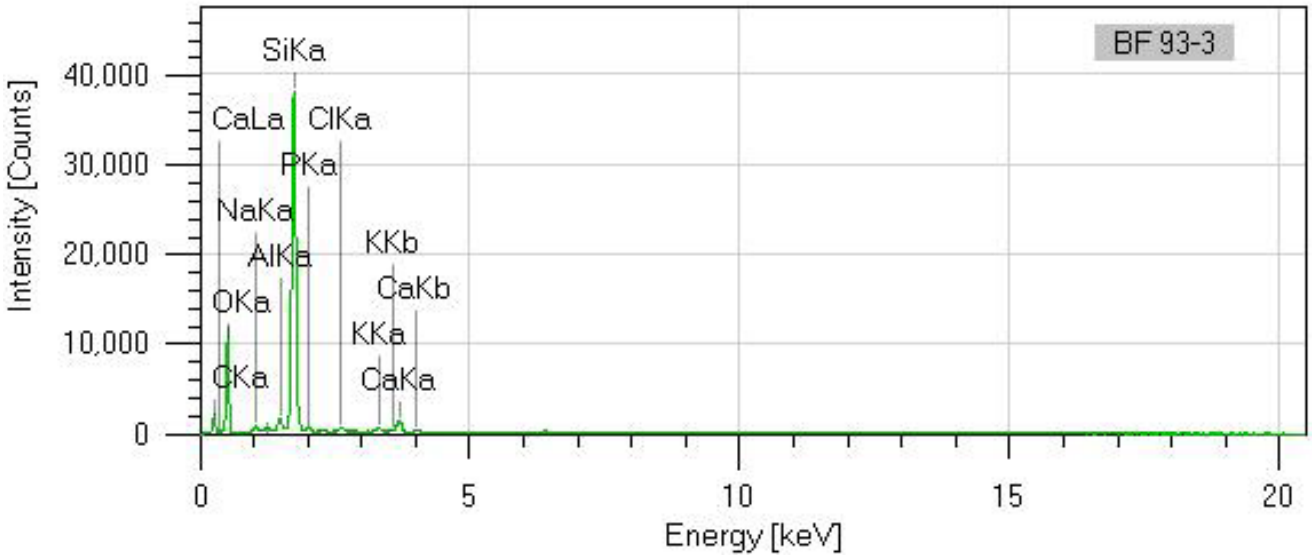


Element	Line	Mass (%)	Atom (%)
C	K	10.33±0.04	18.78±0.07
O	K	43.13±0.08	58.84±0.11
Al	K	1.23±0.02	1.00±0.01
Si	K	9.09±0.03	7.06±0.03
Cl	K	0.22±0.01	0.13±0.00
K	K	0.27±0.01	0.15±0.00
Ca	K	0.43±0.01	0.23±0.01
Fe	K	35.31±0.09	13.80±0.04
Total		100	100
BF93-2 - Fitting ratio 0.0780			

Sample BF93 - DXS: BF93-3 - Siliceous matrix

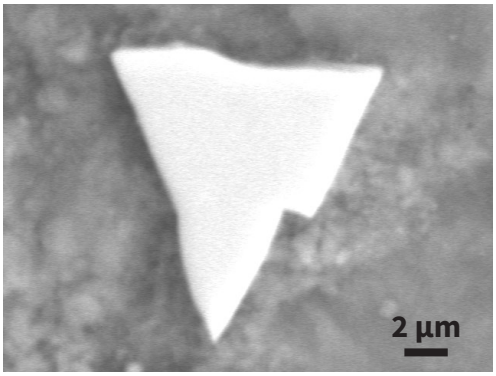


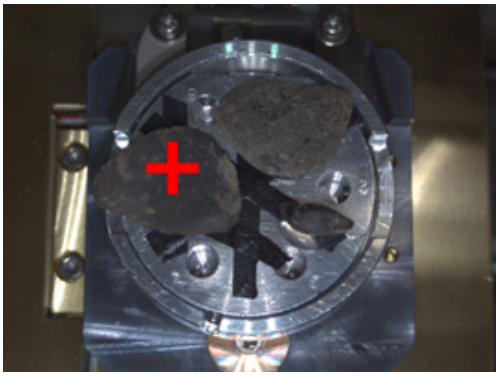


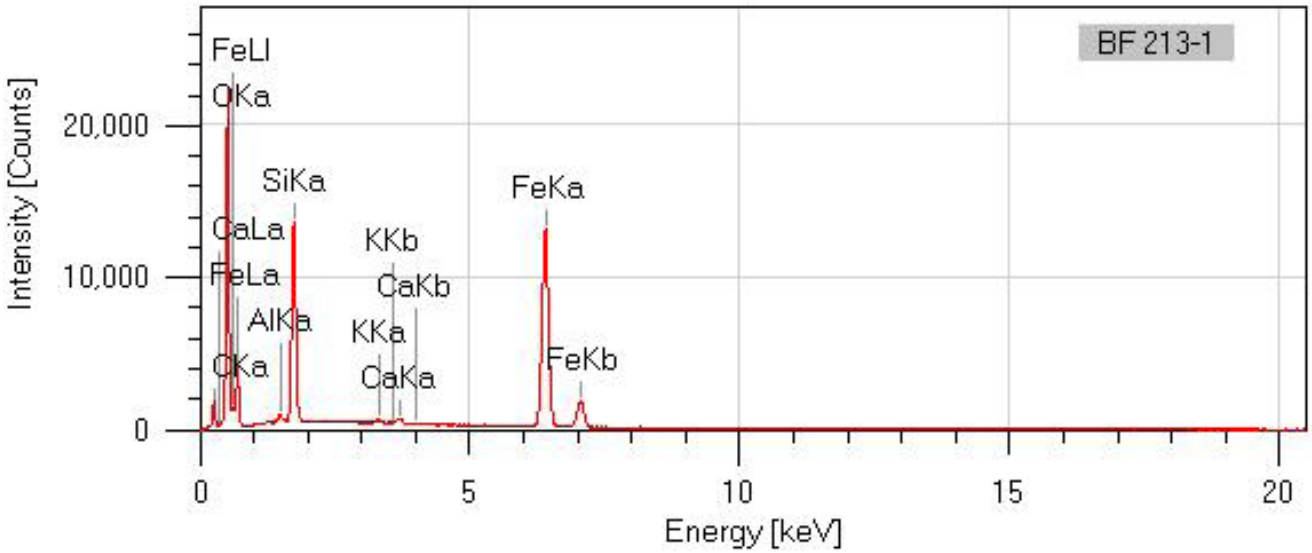


Element	Line	Mass (%)	Atom (%)
C	K	19.50±0.09	28.99±0.13
O	K	42.34±0.13	47.24±0.15
Na	K	0.90±0.02	0.70±0.01
Mg	K	0.33±0.01	0.24±0.01
Al	K	0.98±0.01	0.65±0.01
Si	K	31.65±0.07	20.11±0.04
P	K	0.86±0.01	0.50±0.01
Cl	K	0.63±0.01	0.32±0.01
K	K	0.64±0.01	0.29±0.01
Ca	K	2.18±0.02	0.97±0.01
Total		100	100
BF93-3 - Fitting ratio 0.0793			

Sample BF213 - DXS: BF213-1 - Iron-mineral particle

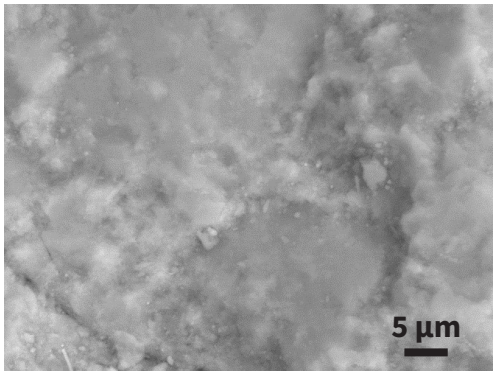


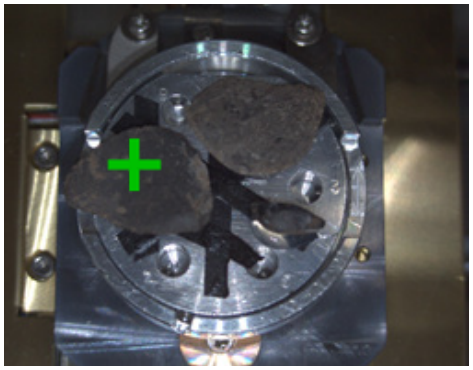


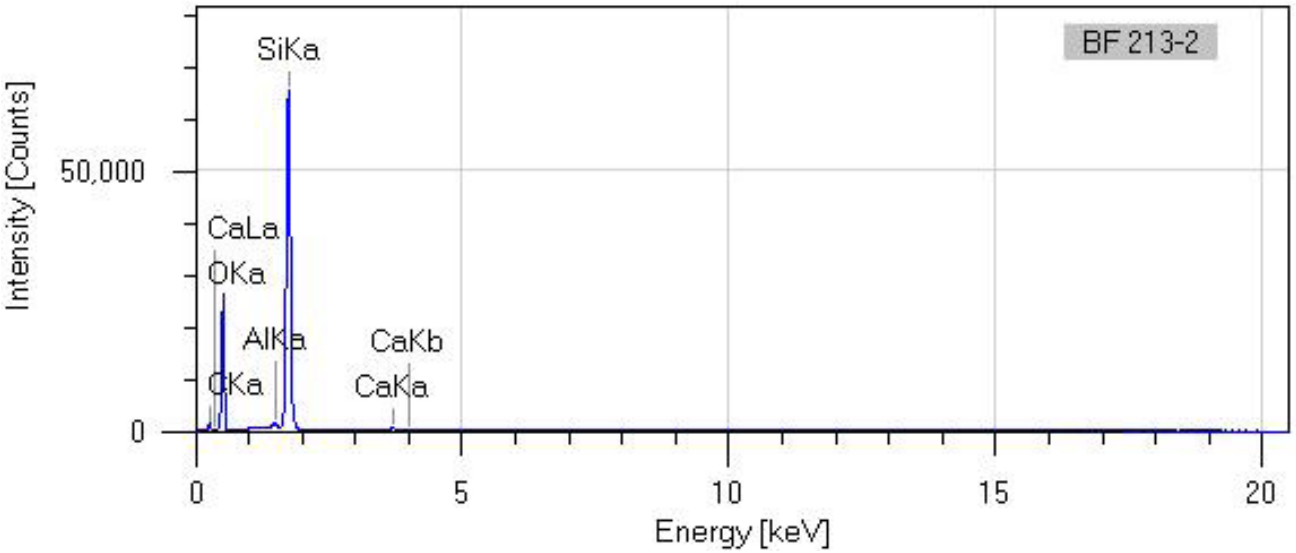


Element	Line	Mass (%)	Atom (%)
C	K	4.42±0.06	9.65±0.13
O	K	34.17±0.17	56.02±0.28
Al	K	0.45±0.03	0.44±0.03
Si	K	11.08±0.09	10.34±0.09
K	K	0.24±0.02	0.16±0.01
Ca	K	0.43±0.03	0.28±0.02
Fe	K	49.21±0.26	23.11±0.12
Total		100	100
BF213-1 - Fitting ratio 0.0583			

Sample BF213 - DXS: BF213-2 - Siliceous matrix

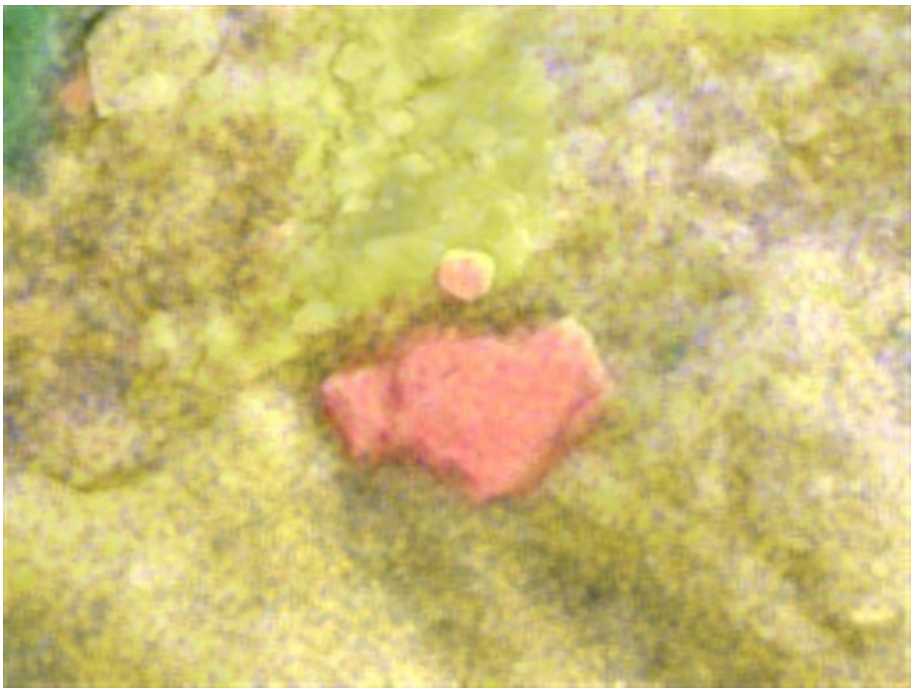






Element	Line	Mass (%)	Atom (%)
C	K	10.46±0.06	16.07±0.09
O	K	50.65±0.11	58.43±0.12
Al	K	0.44±0.01	0.30±0.01
Si	K	38.15±0.06	25.06±0.04
Ca	K	0.30±0.01	0.14±0.00
Total		100	100
BF213-1 - Fitting ratio 0.0583			

Sample BF213 - Map: BF213-3 - Iron-mineral particle



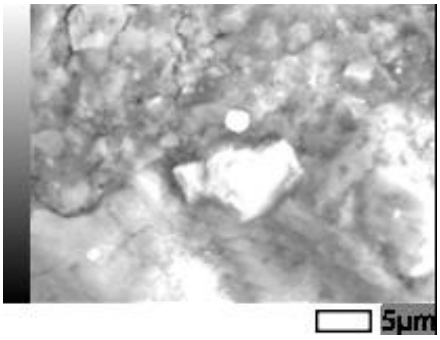
Al-K

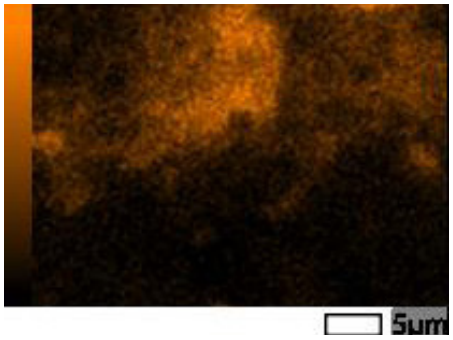
Si-K

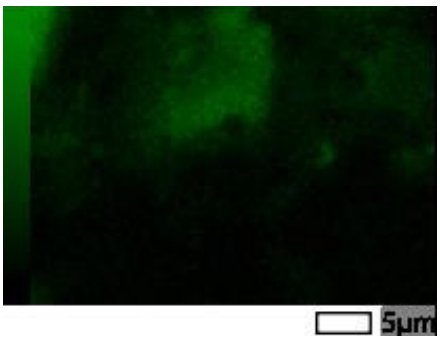
K-K

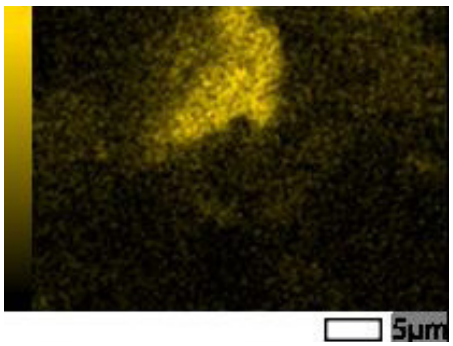
Ca-K

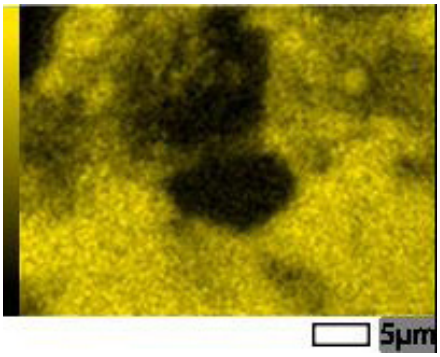
Fe-K

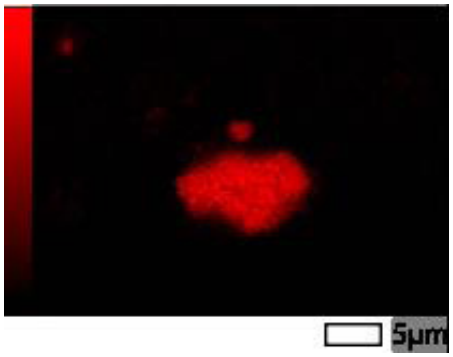




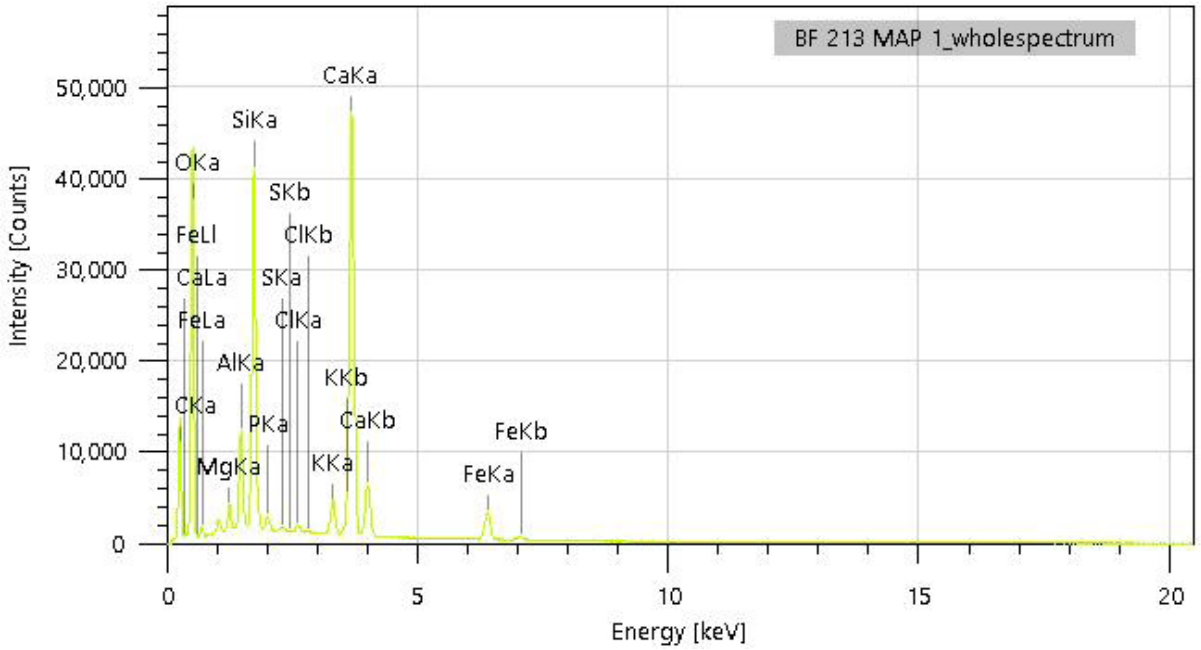








Sample BF213 - Map: BF213-3 - Iron-mineral particle (continued)



Element	Line	Mass (%)	Atom (%)
C	K	14.07±0.02	22.17±0.04
O	K	49.29±0.08	58.32±0.09
Mg	K	0.74±0.01	0.57±0.01
Al	K	2.51±0.01	1.76±0.01
Si	K	8.78±0.02	5.91±0.01
P	K	0.49±0.01	0.30±0.00
S	K	0.12±0.00	0.07±0.01
Cl	K	0.22±0.00	0.12±0.00
K	K	1.31±0.01	0.64±0.00
Ca	K	18.94±0.03	8.95±0.01
Fe	K	3.53±0.02	1.20±0.01
Total		100	100
BF93-1 - Fitting ratio 0.0778			