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Late Jurassic Sedimentation in the Boreal-Tethyan Seaway: climate modelling, geochemistry, and petrography of the Kimmeridge Clay Formation

ELIZABETH FILIZ LINDSAY ATAR

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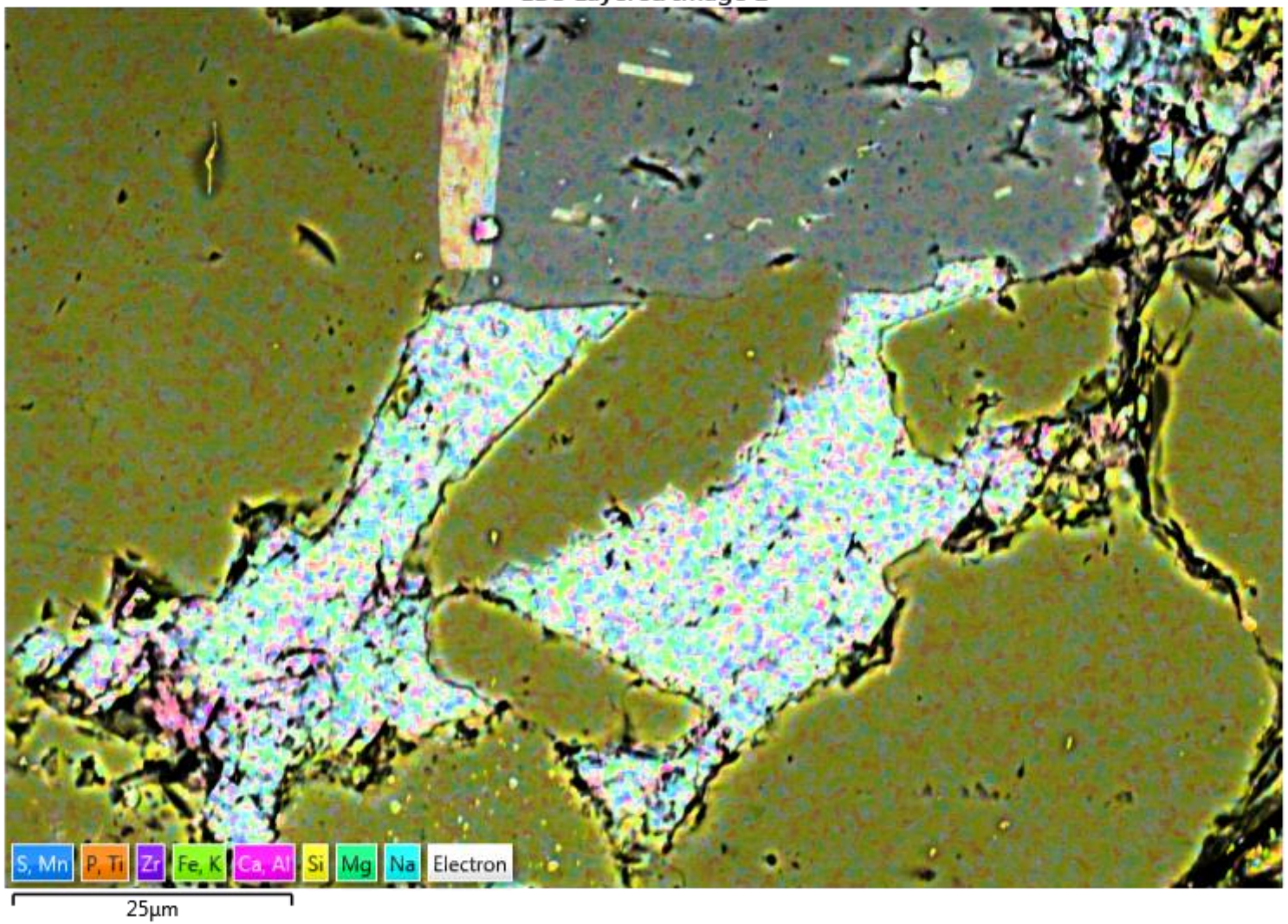

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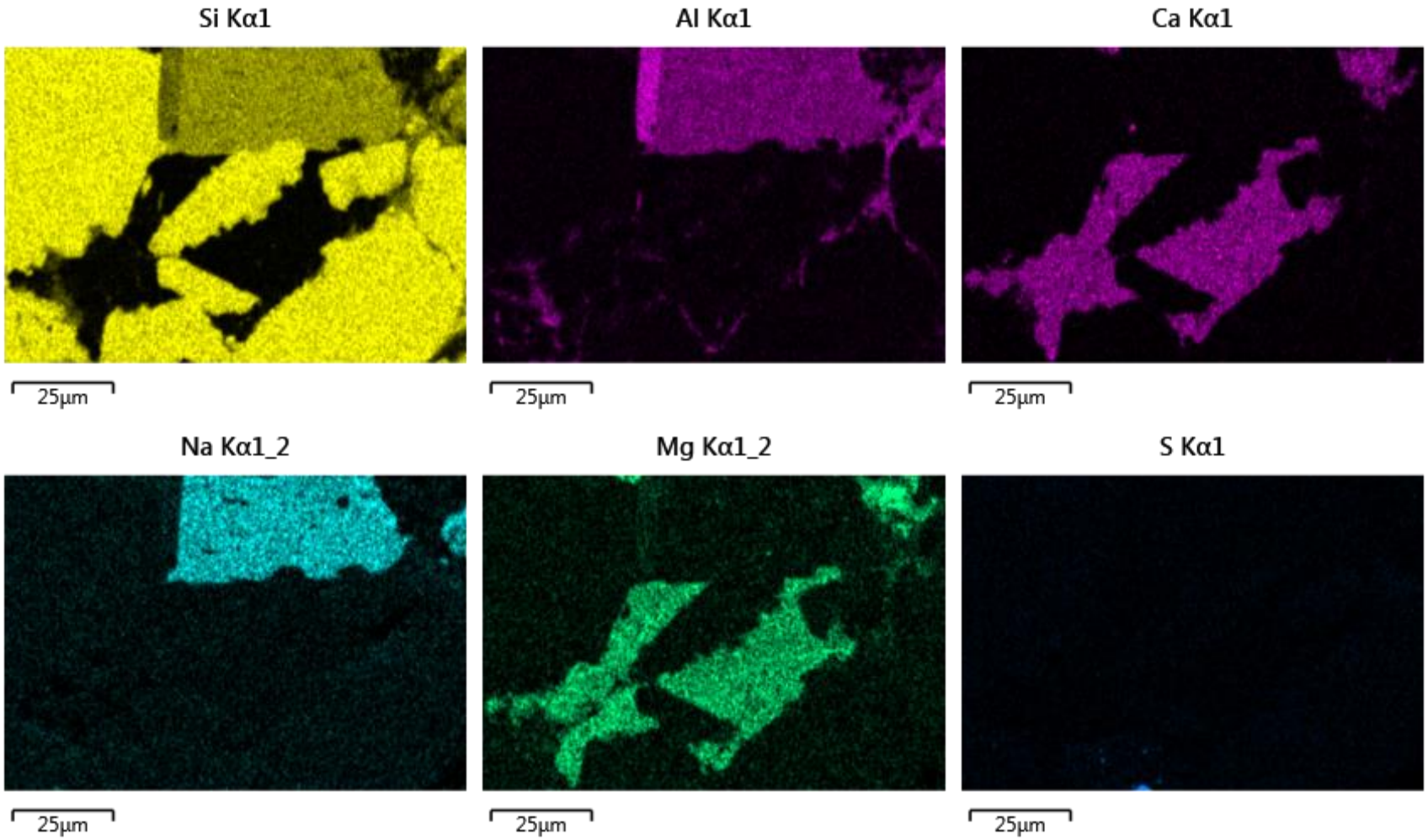

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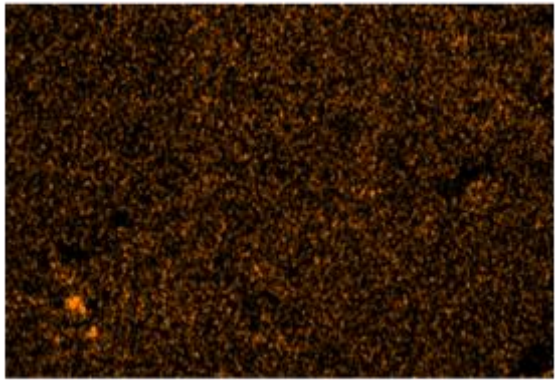
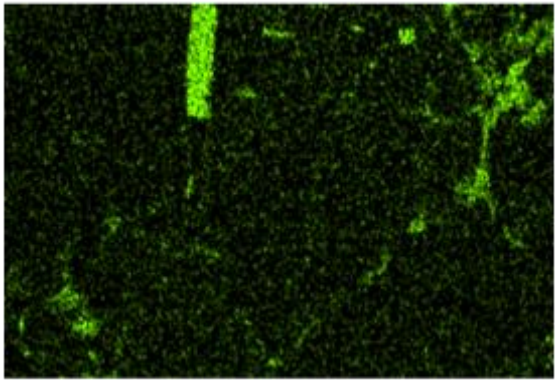
P Kα1



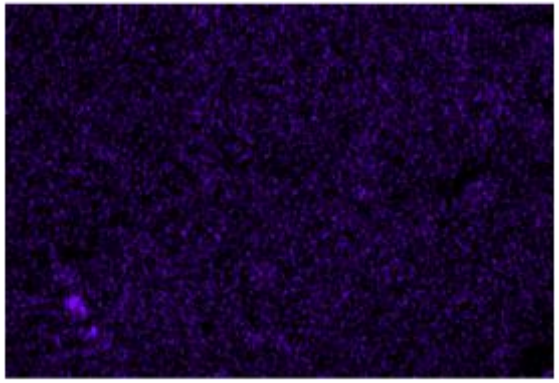
25µm

K Kα1



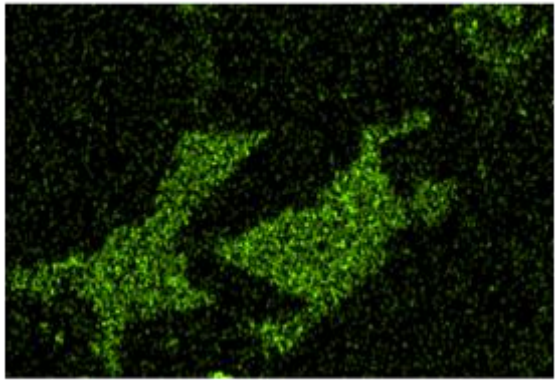
25µm

Zr Lα1



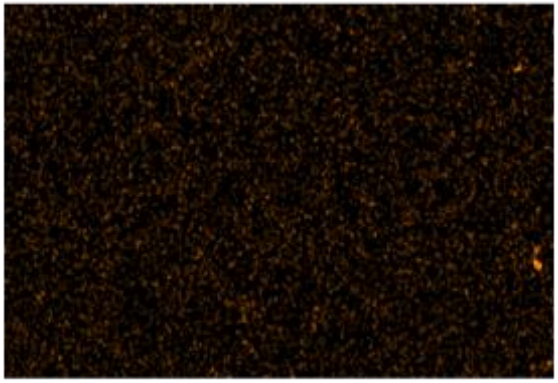
25µm

Fe Kα1



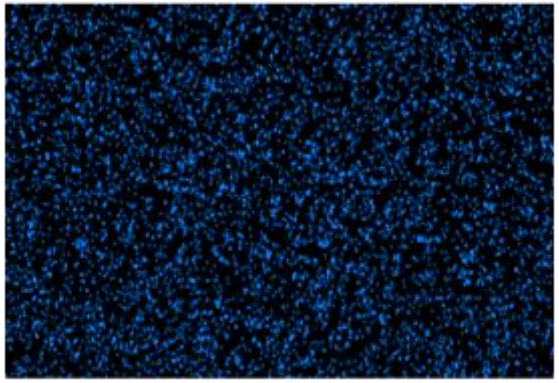
25µm

Ti Kα1



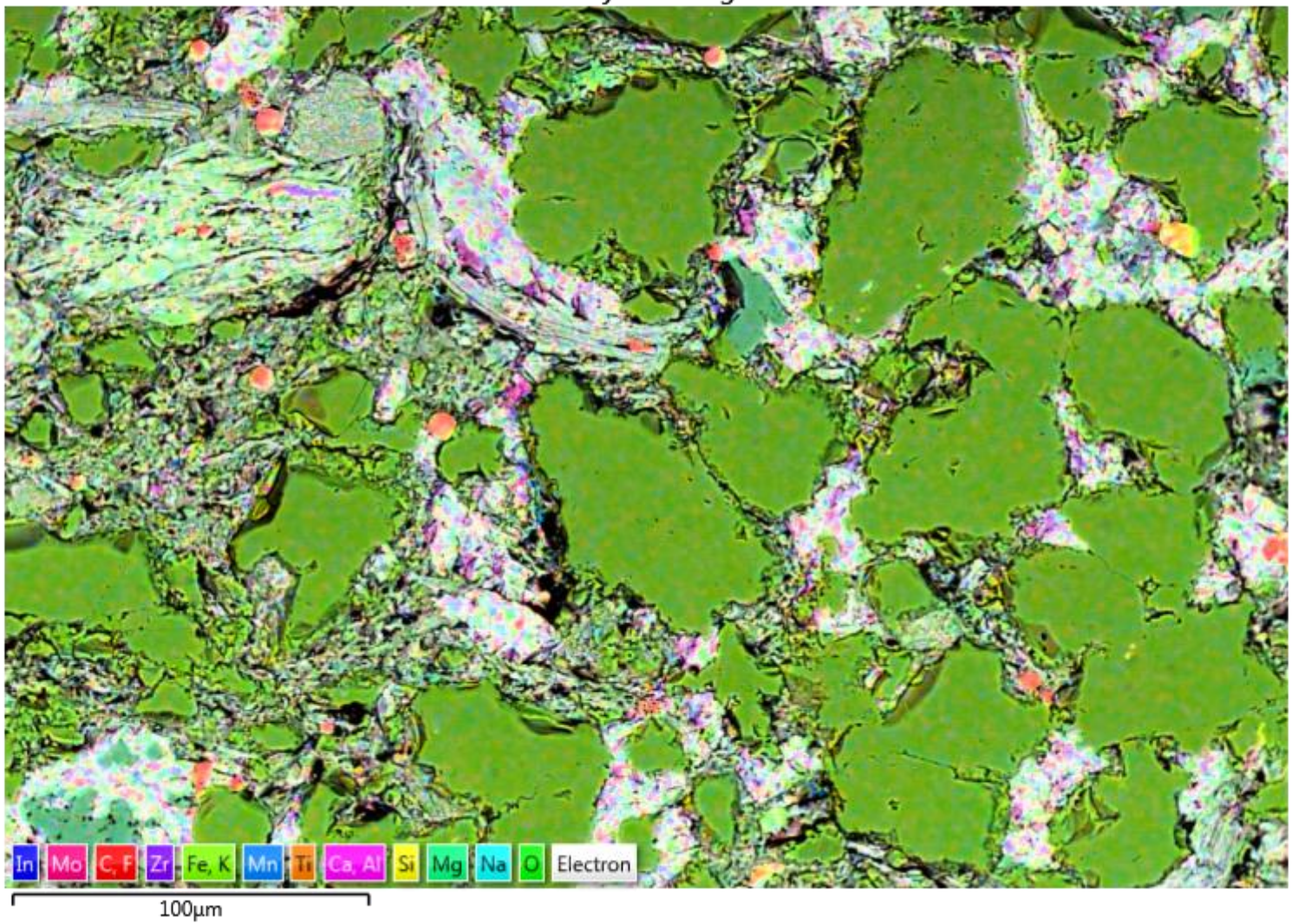
25µm

Mn Kα1



25µm

EDS Layered Image 6



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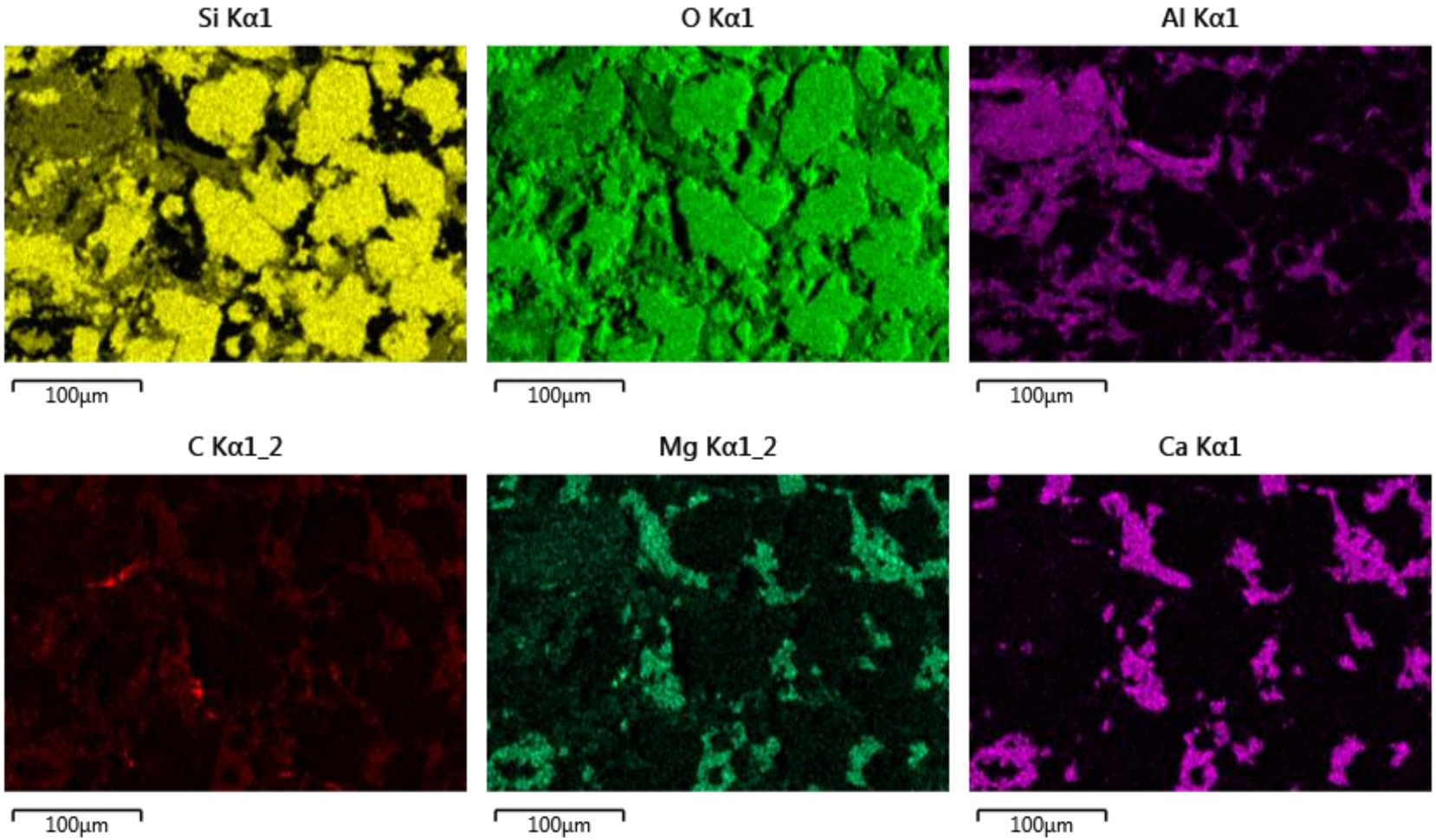
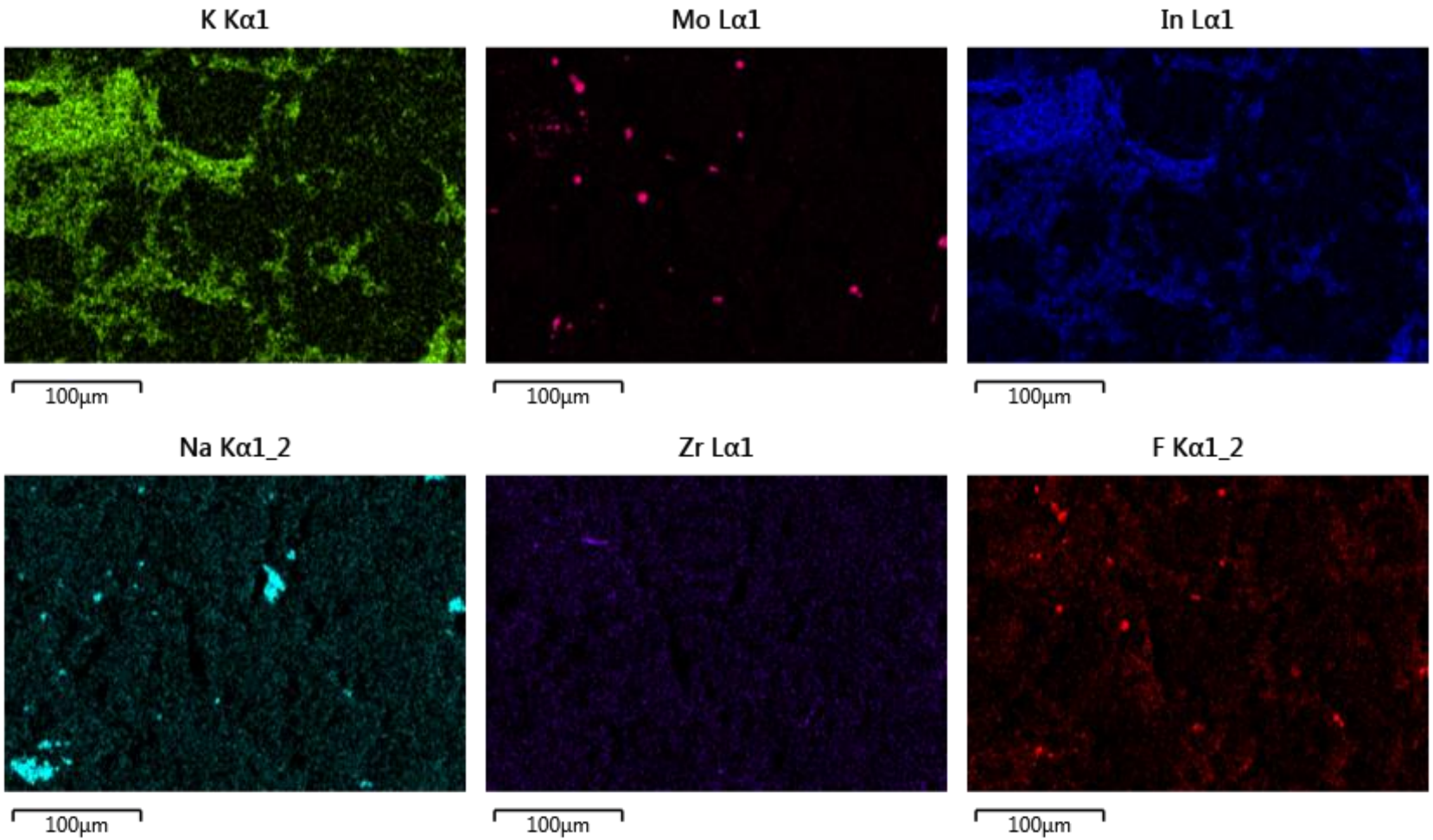
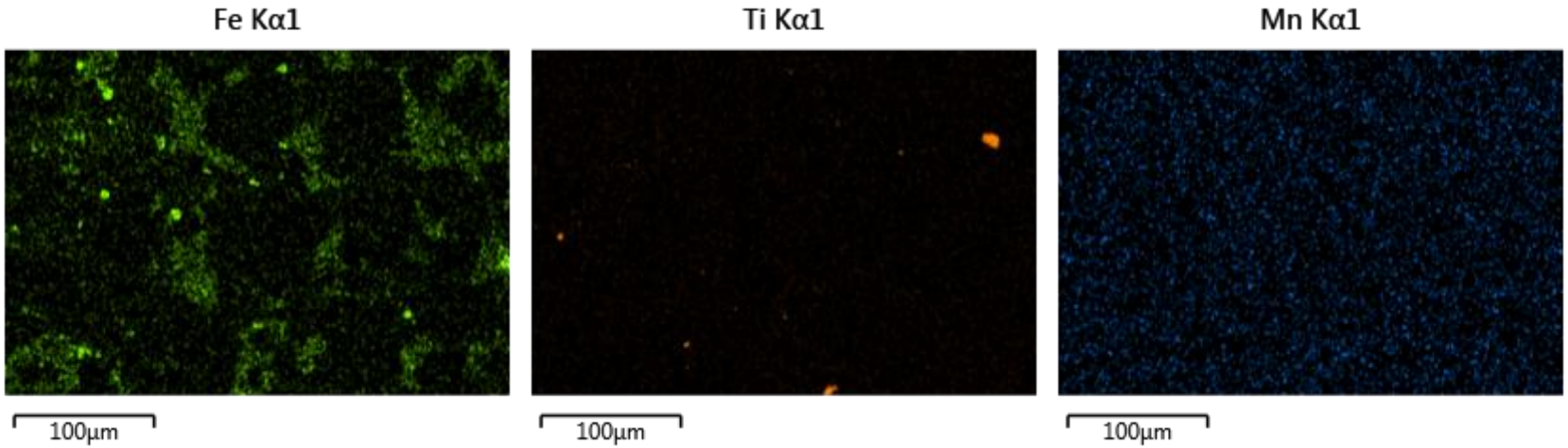

Si Kα1
O Kα1
Al Kα1
100µm
100µm
100µm
C Kα1_2
Mg Kα1_2
Ca Kα1
100µm
100µm
100µm


K Kα1
100µm
Mo Lα1
100µm
In Lα1
100µm
Na Kα1_2
100µm
Zr Lα1
100µm
F Kα1_2
100µm


Fe Kα1
Ti Kα1
Mn Kα1
100µm
100µm
100µm

EDS Layered Image 7



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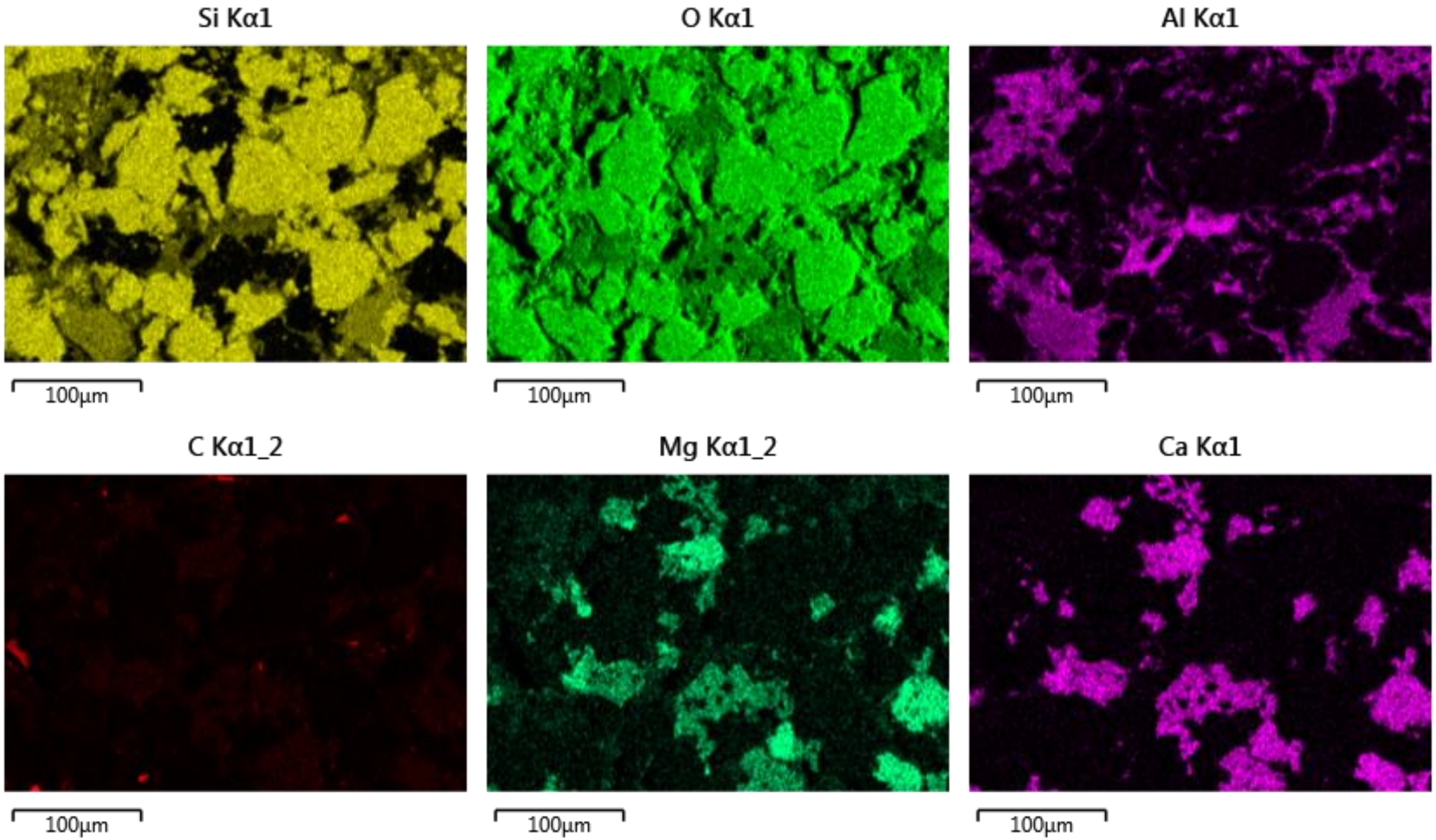
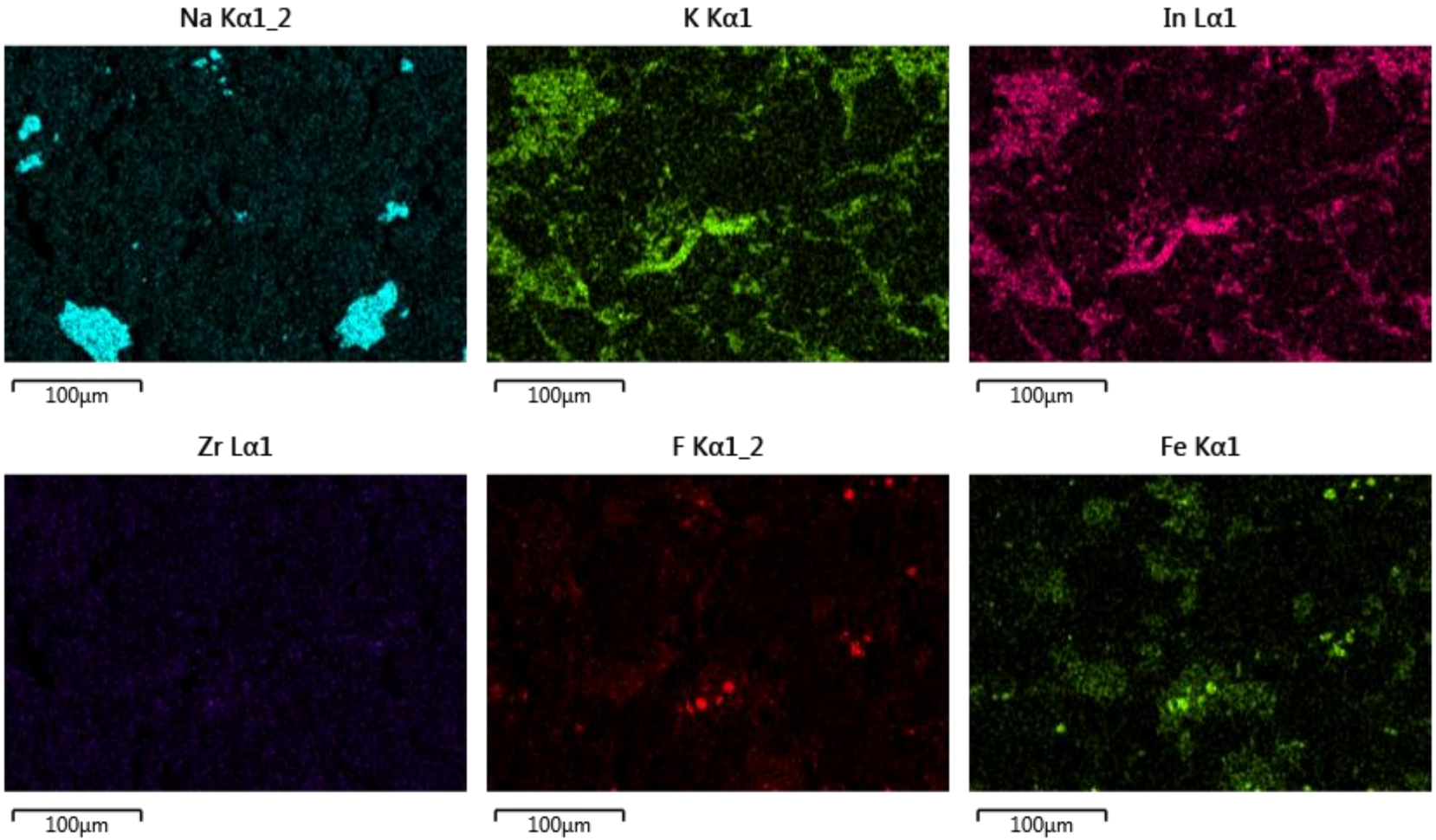
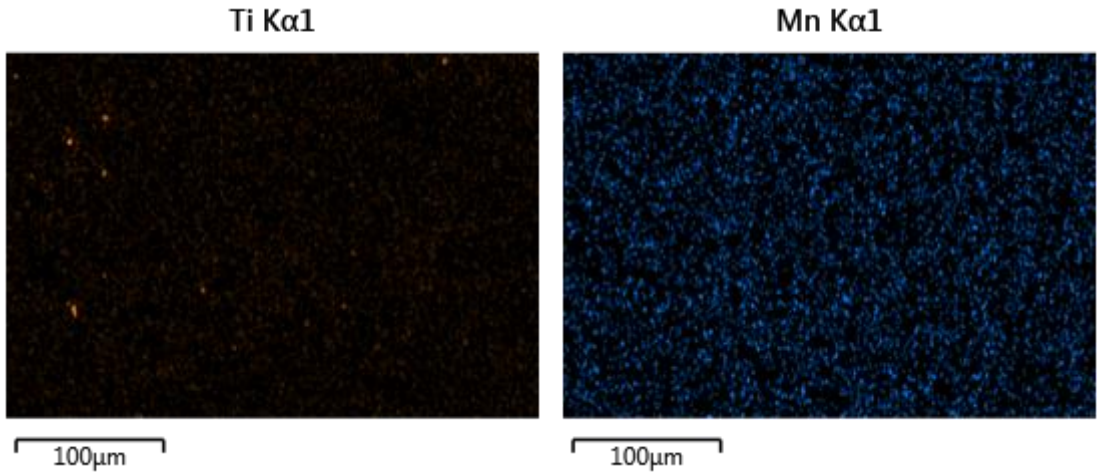
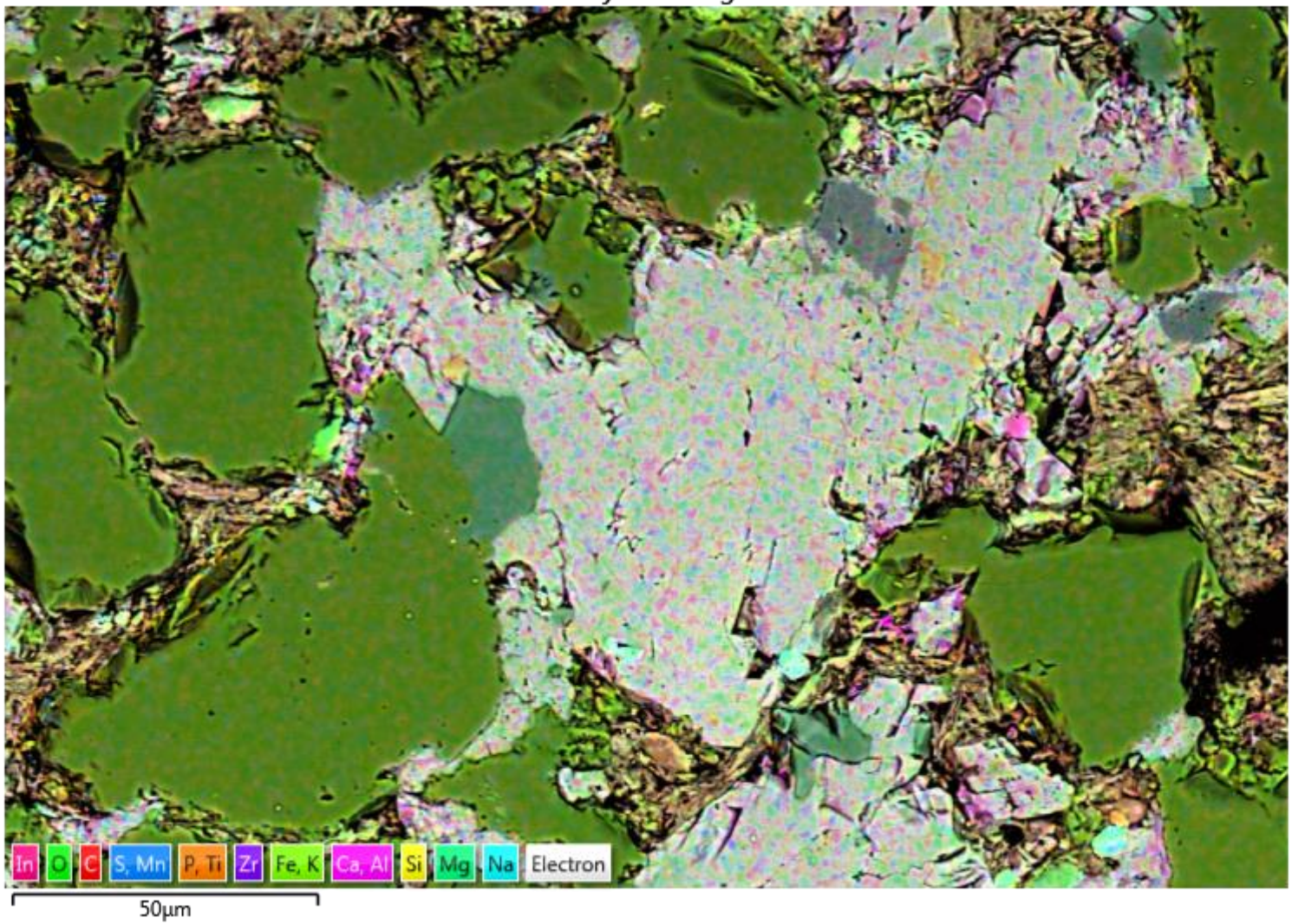

Si Kα1
O Kα1
Al Kα1
100µm
100µm
100µm
C Kα1_2
Mg Kα1_2
Ca Kα1
100µm
100µm
100µm


Na Kα1_2
K Kα1
In Lα1
100µm
100µm
100µm
Zr Lα1
F Kα1_2
Fe Kα1
100µm
100µm
100µm


Ti Kα1
Mn Kα1
100µm
100µm

EDS Layered Image 8



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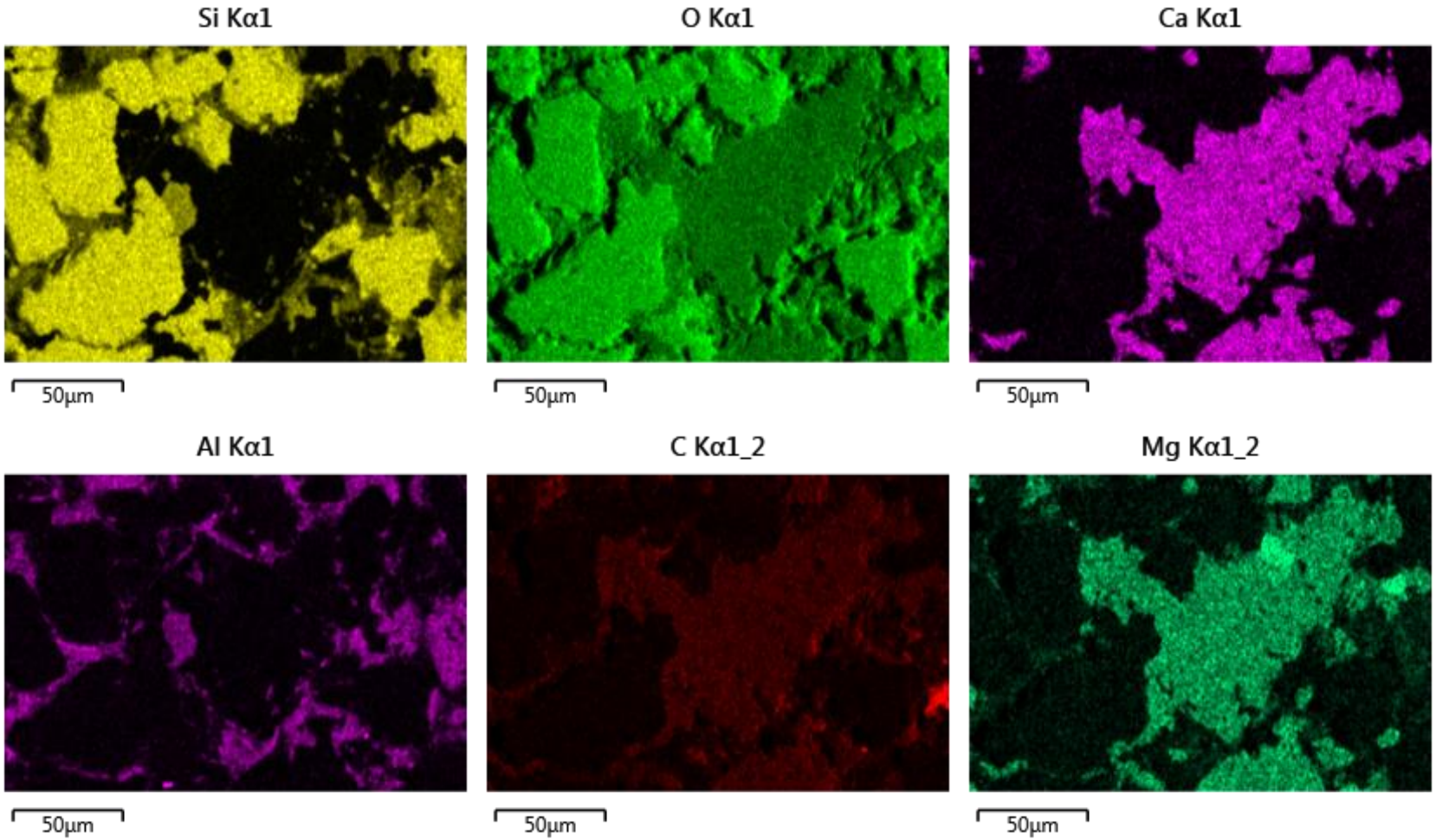
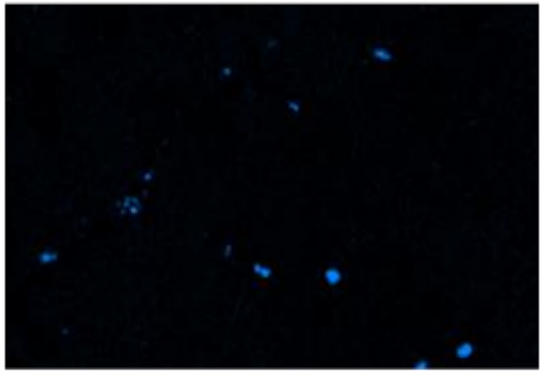
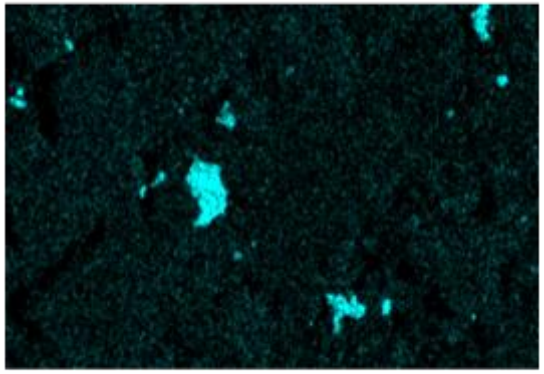

Si Kα1
O Kα1
Ca Kα1
50µm
50µm
50µm
Al Kα1
C Kα1_2
Mg Kα1_2
50µm
50µm
50µm

S Kα1



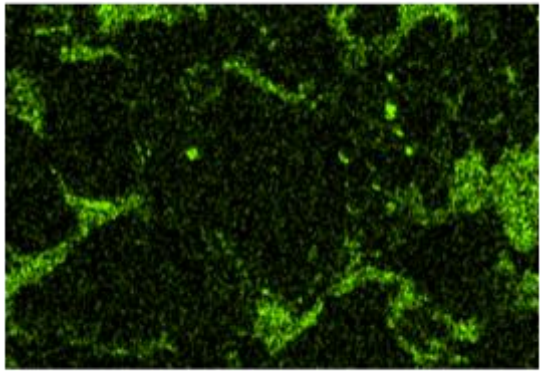
50µm

Na Kα1_2



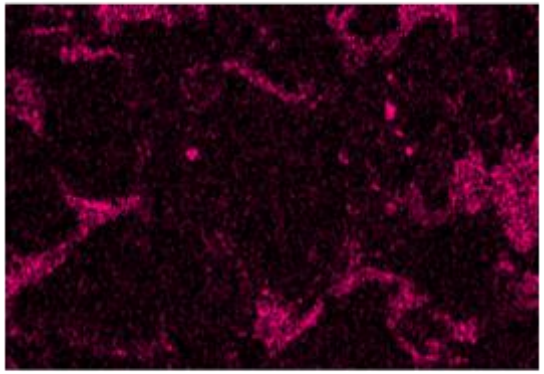
50µm

K Kα1



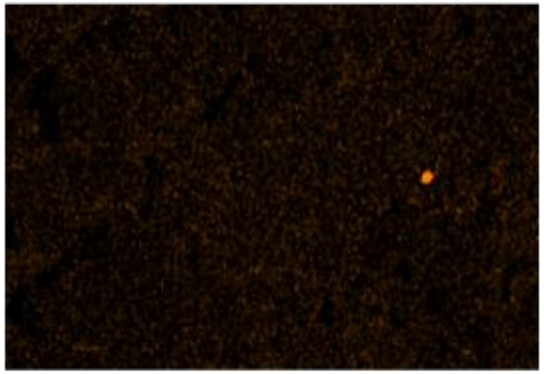
50µm

In Lα1



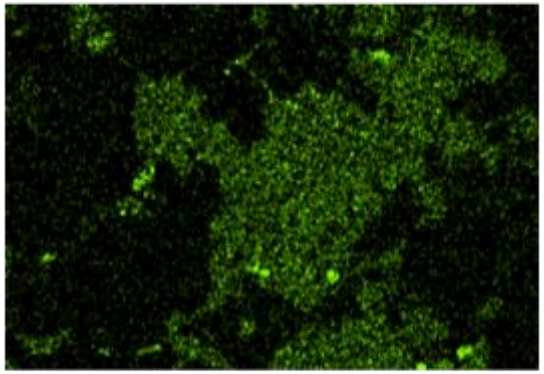
50µm

P Kα1



50µm

Fe Kα1



50µm

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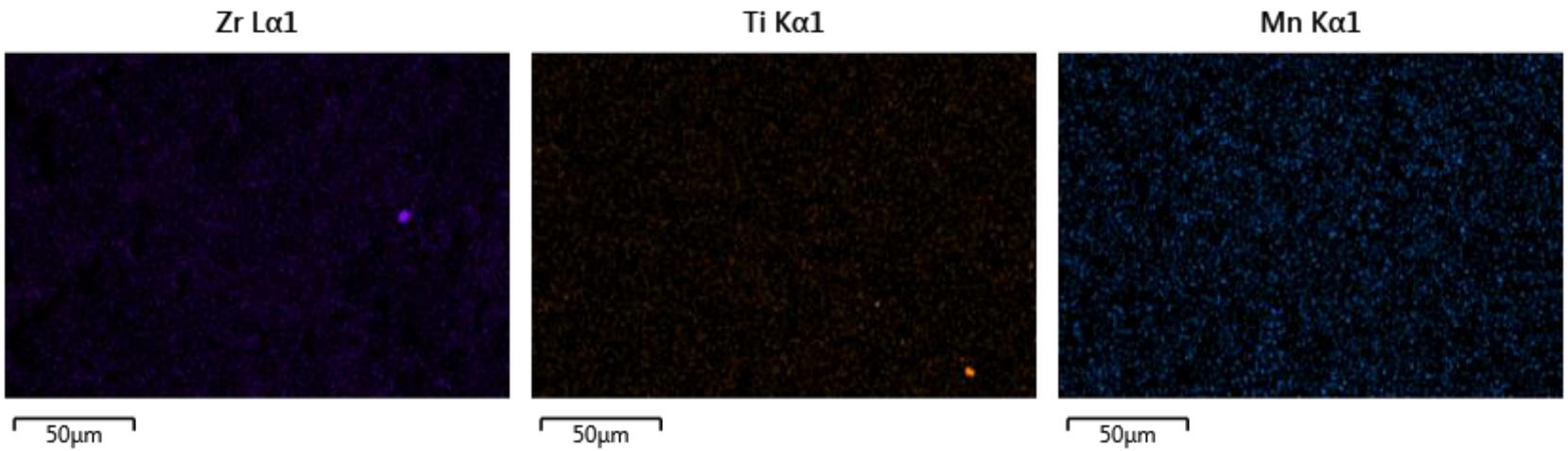
Zr Lα1
Ti Kα1
Mn Kα1
50µm
50µm
50µm

EDS Layered Image 9



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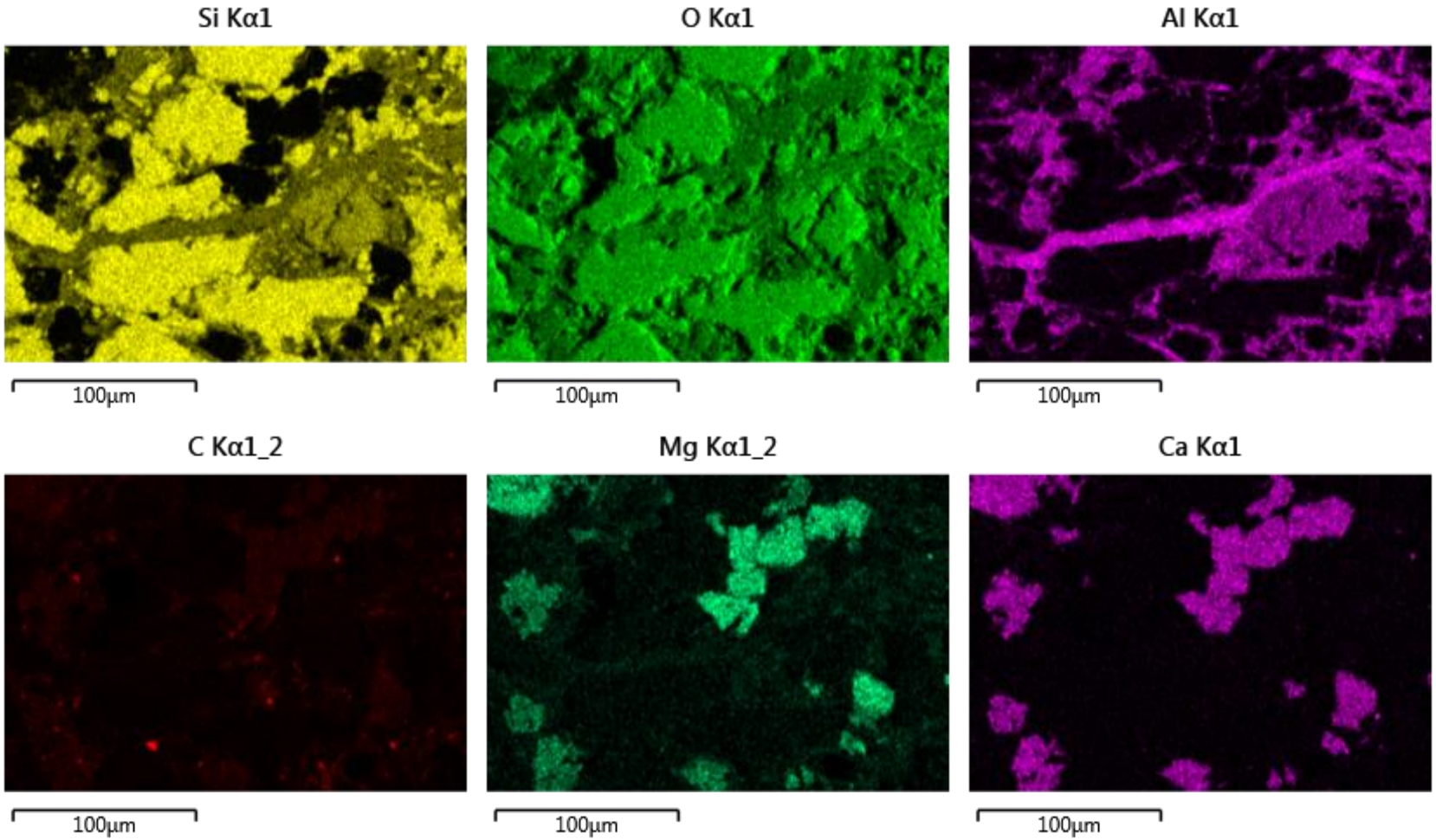
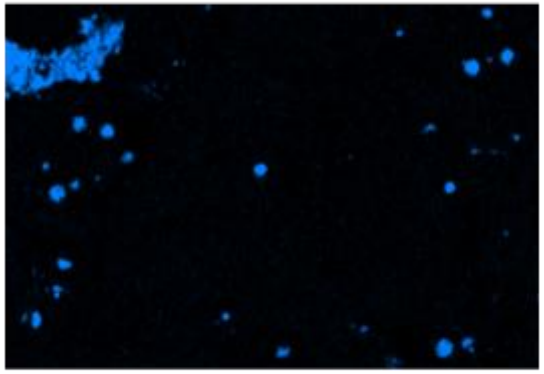
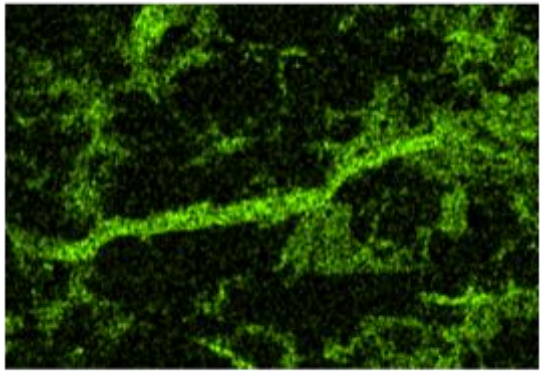

Si Kα1
O Kα1
Al Kα1
100µm
100µm
100µm
C Kα1_2
Mg Kα1_2
Ca Kα1
100µm
100µm
100µm

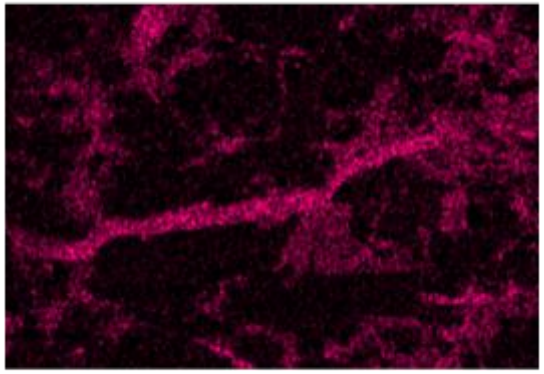
S Kα1



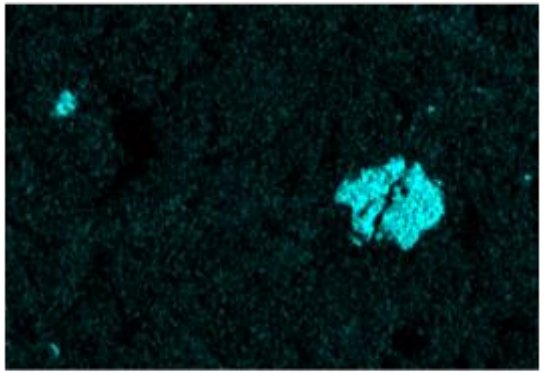
K Kα1



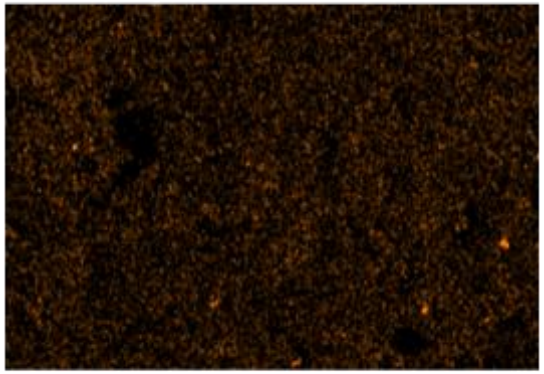
In Lα1



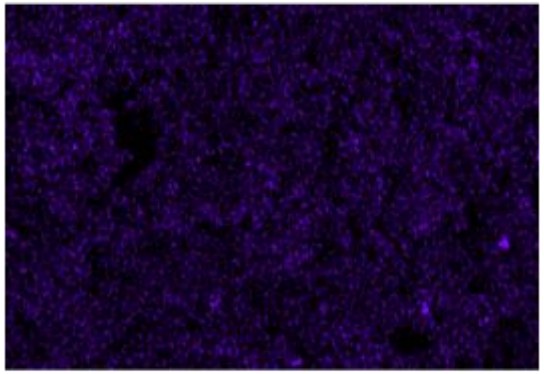
Na Kα1_2



P Kα1



Zr Lα1



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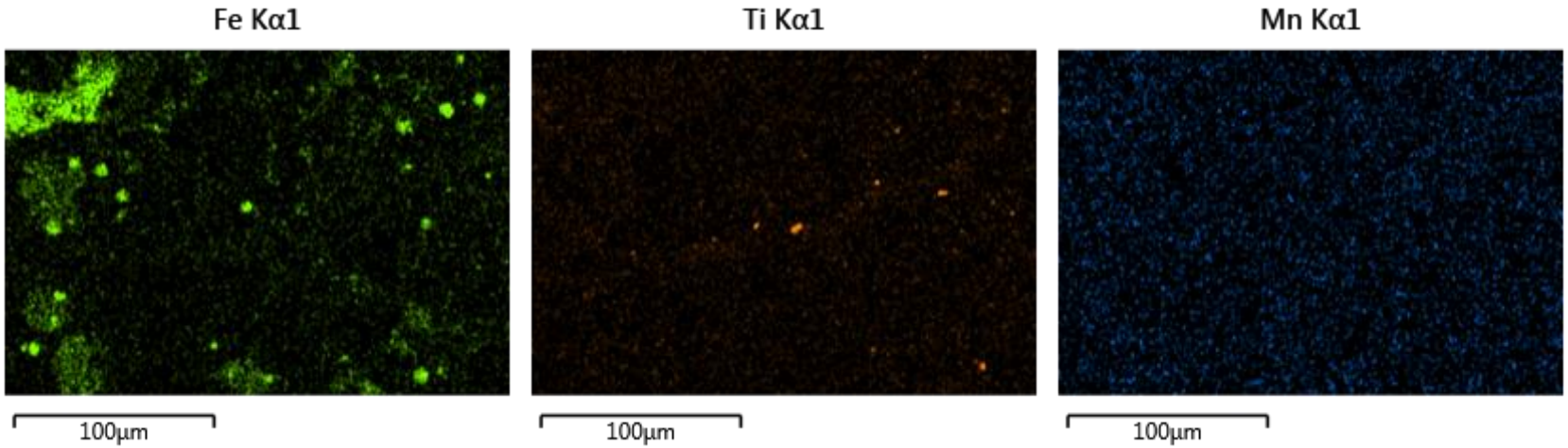
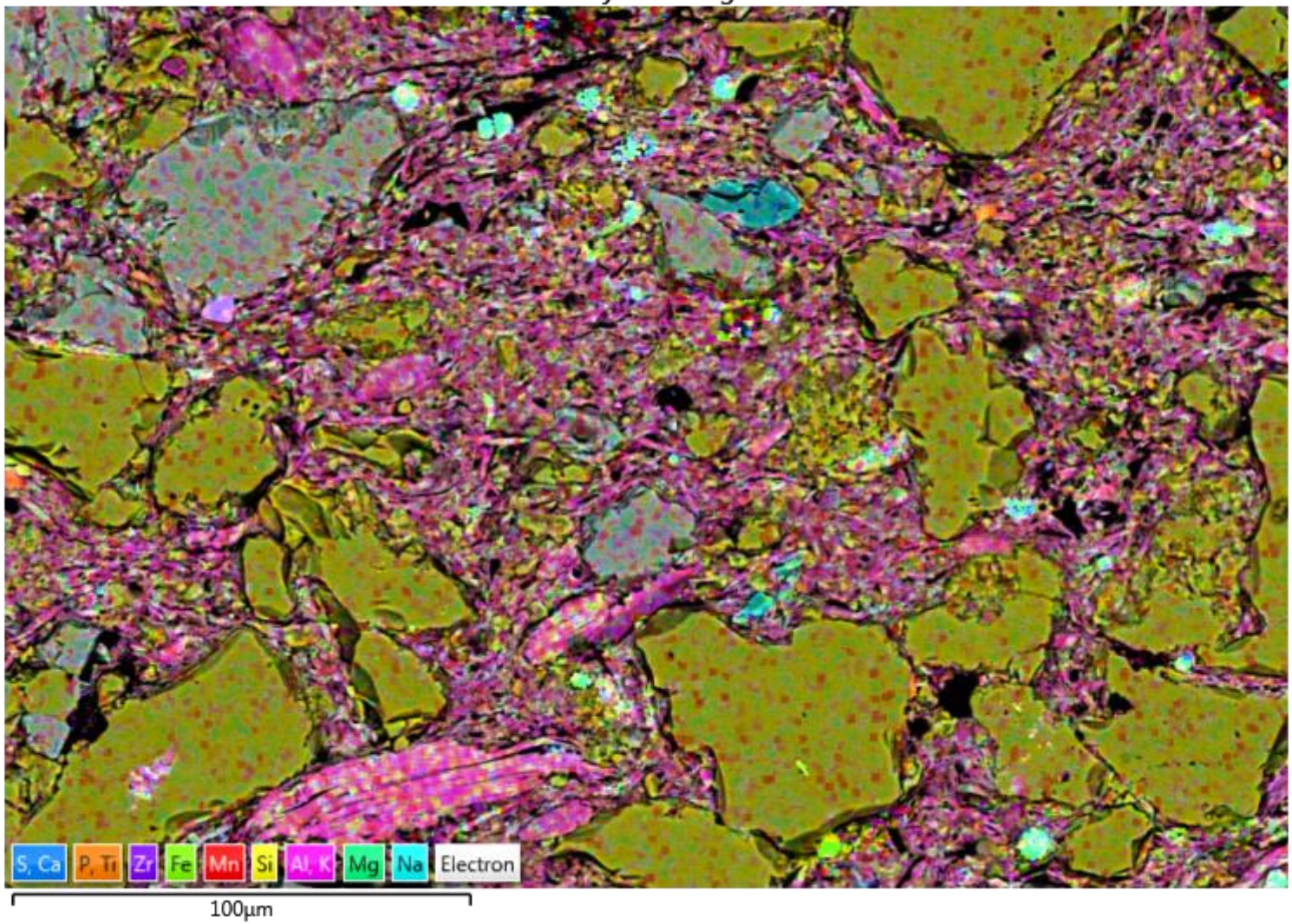

Fe Kα1
Ti Kα1
Mn Kα1
100µm
100µm
100µm

EDS Layered Image 2



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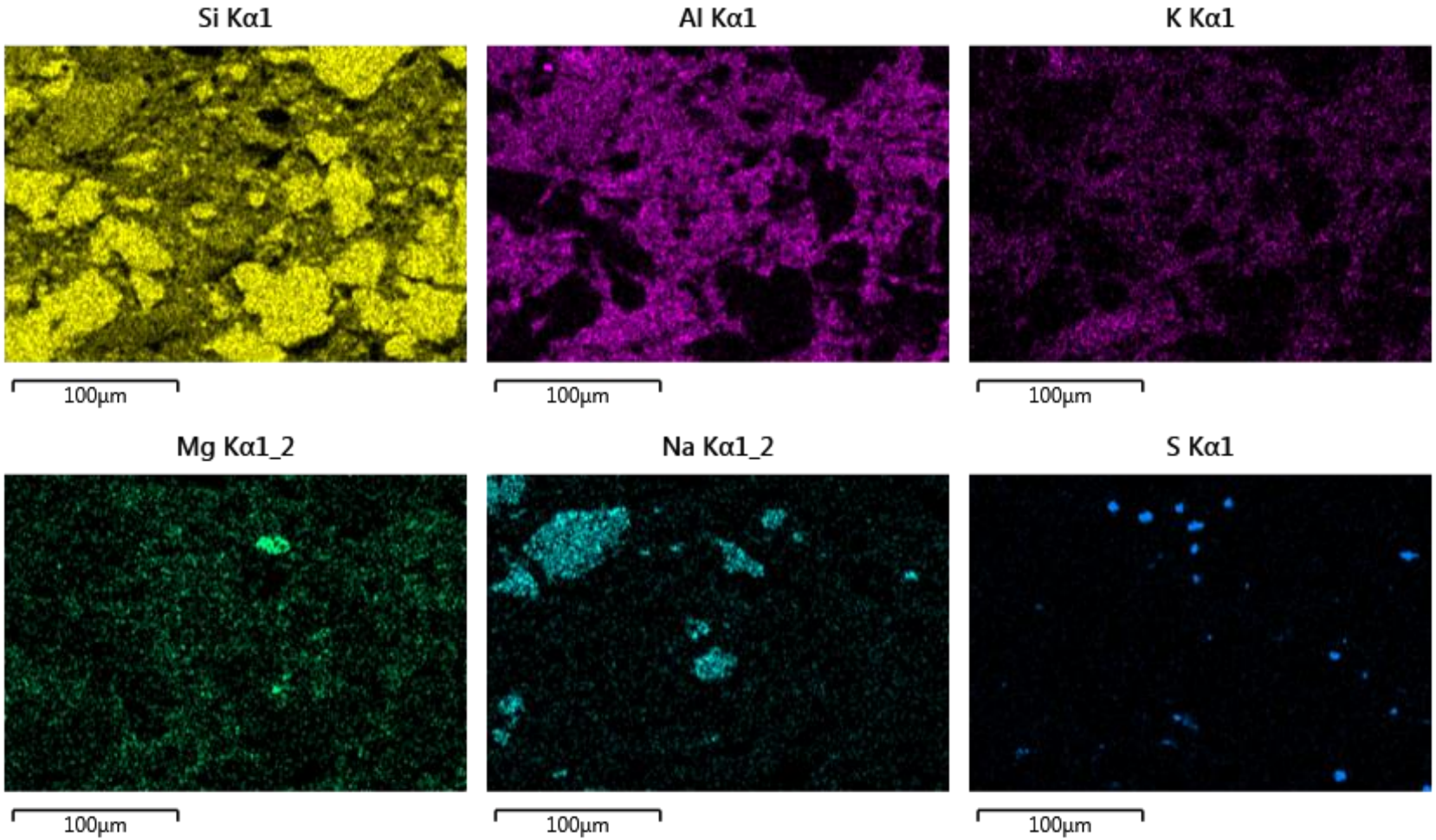

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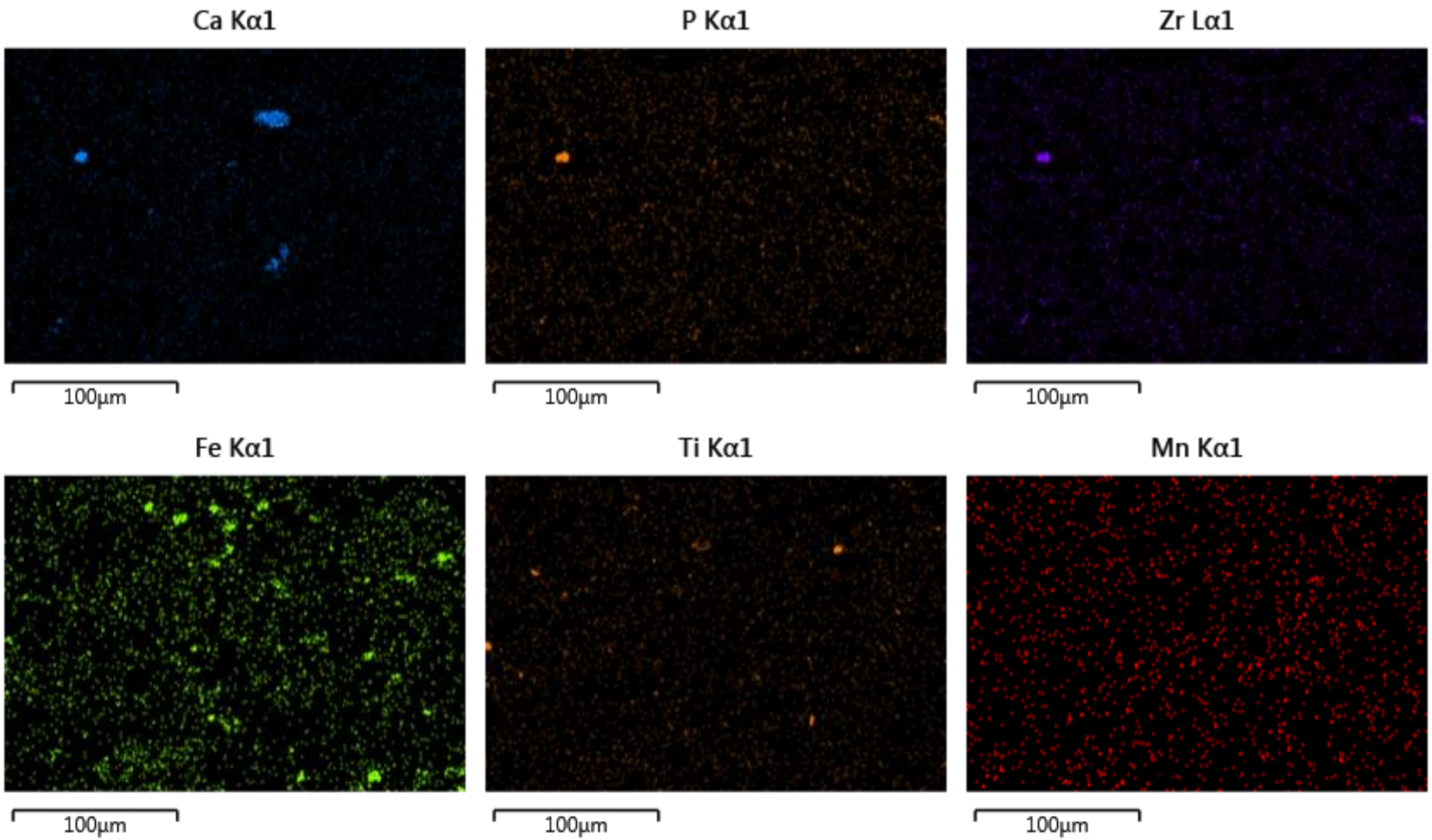

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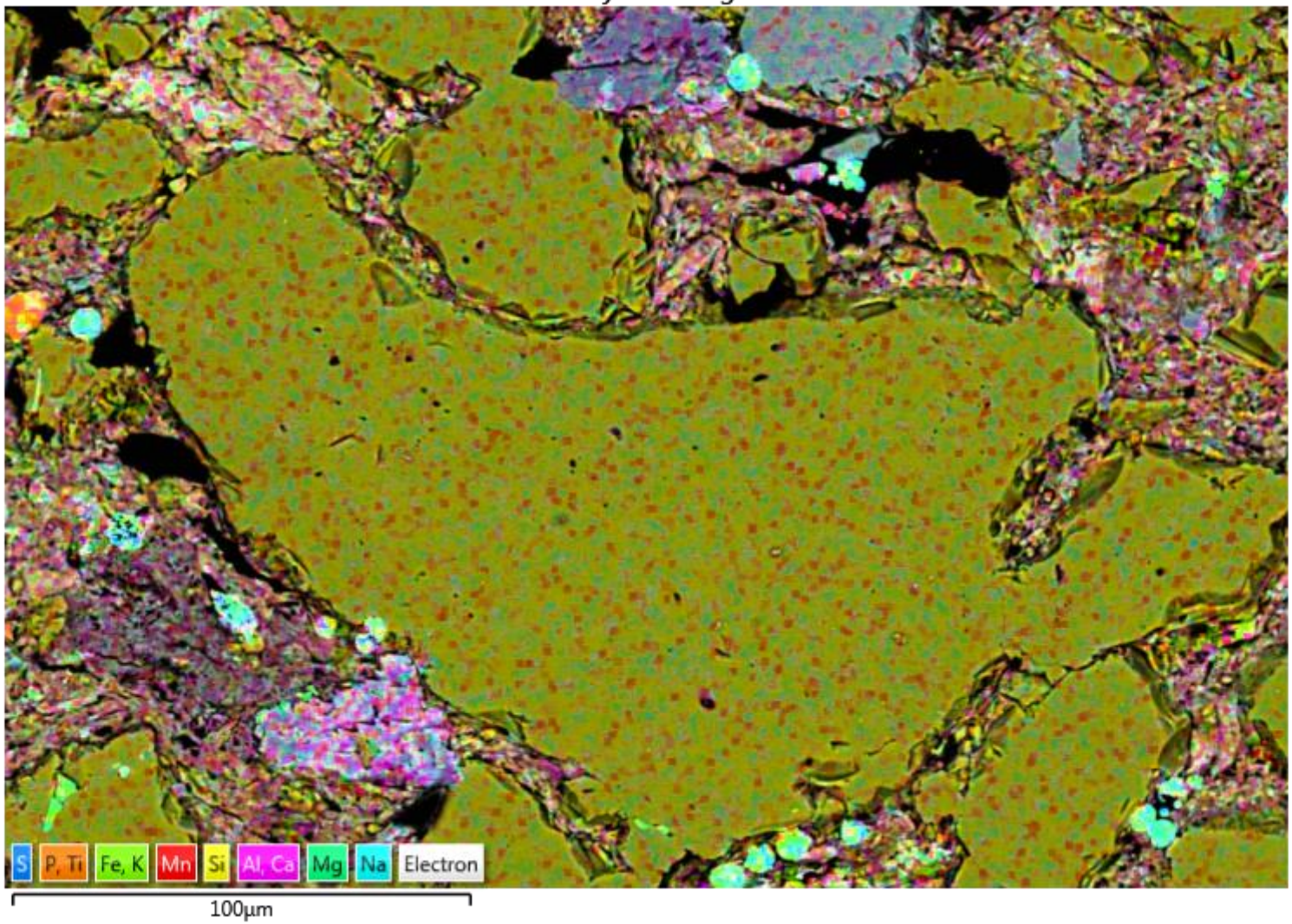

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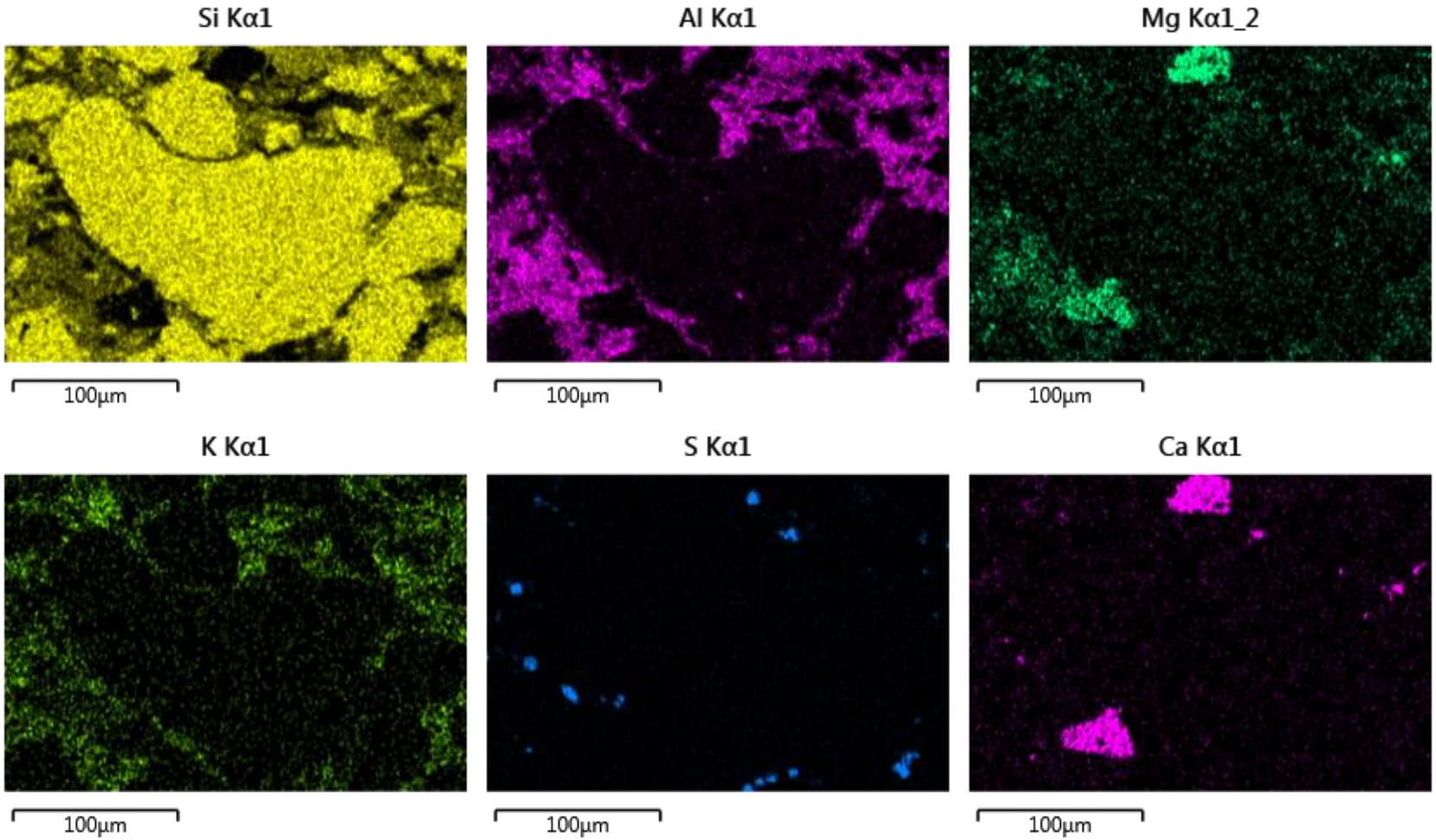

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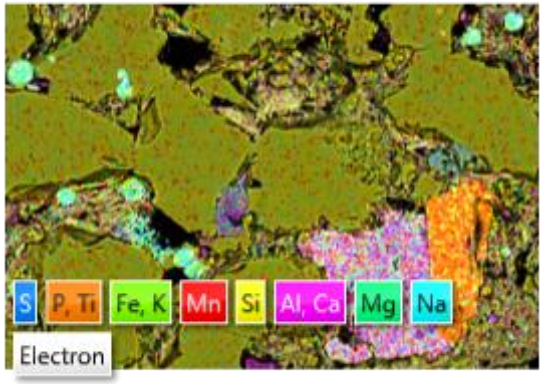
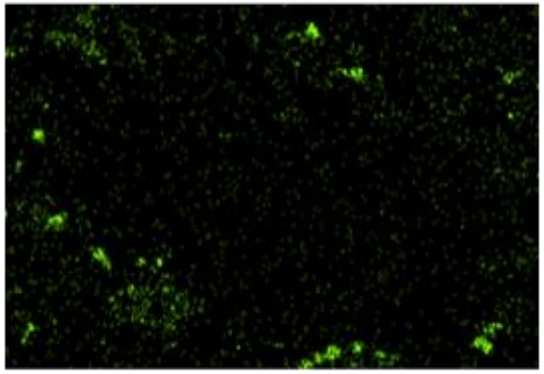


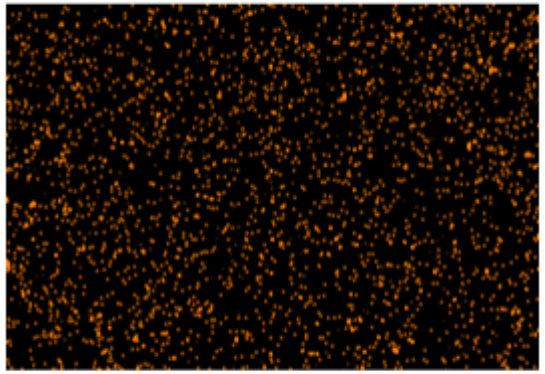
P Kα1



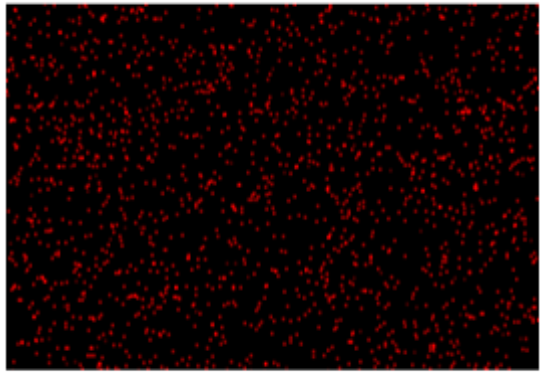
Fe Kα1



Ti Kα1



Mn Kα1



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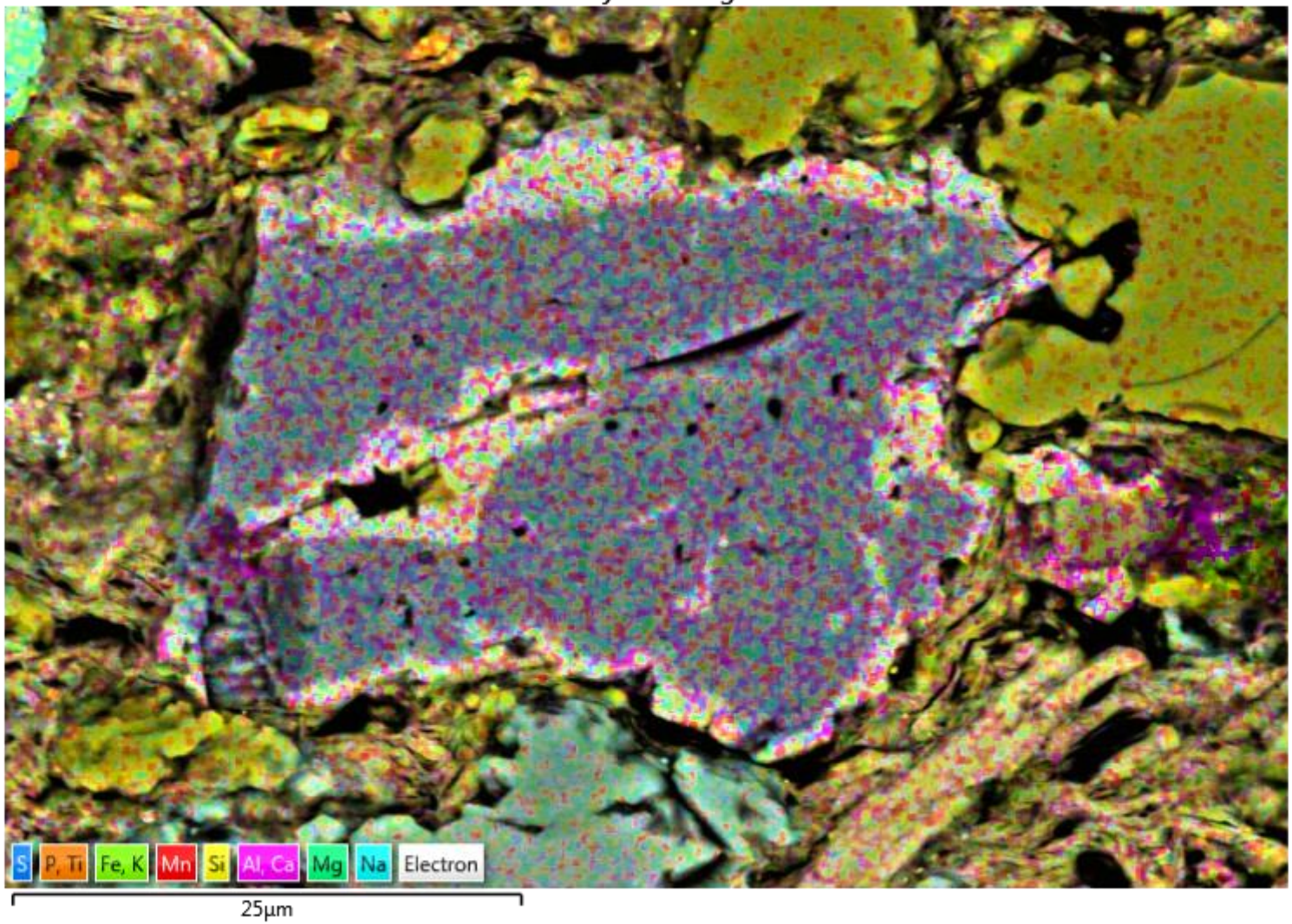

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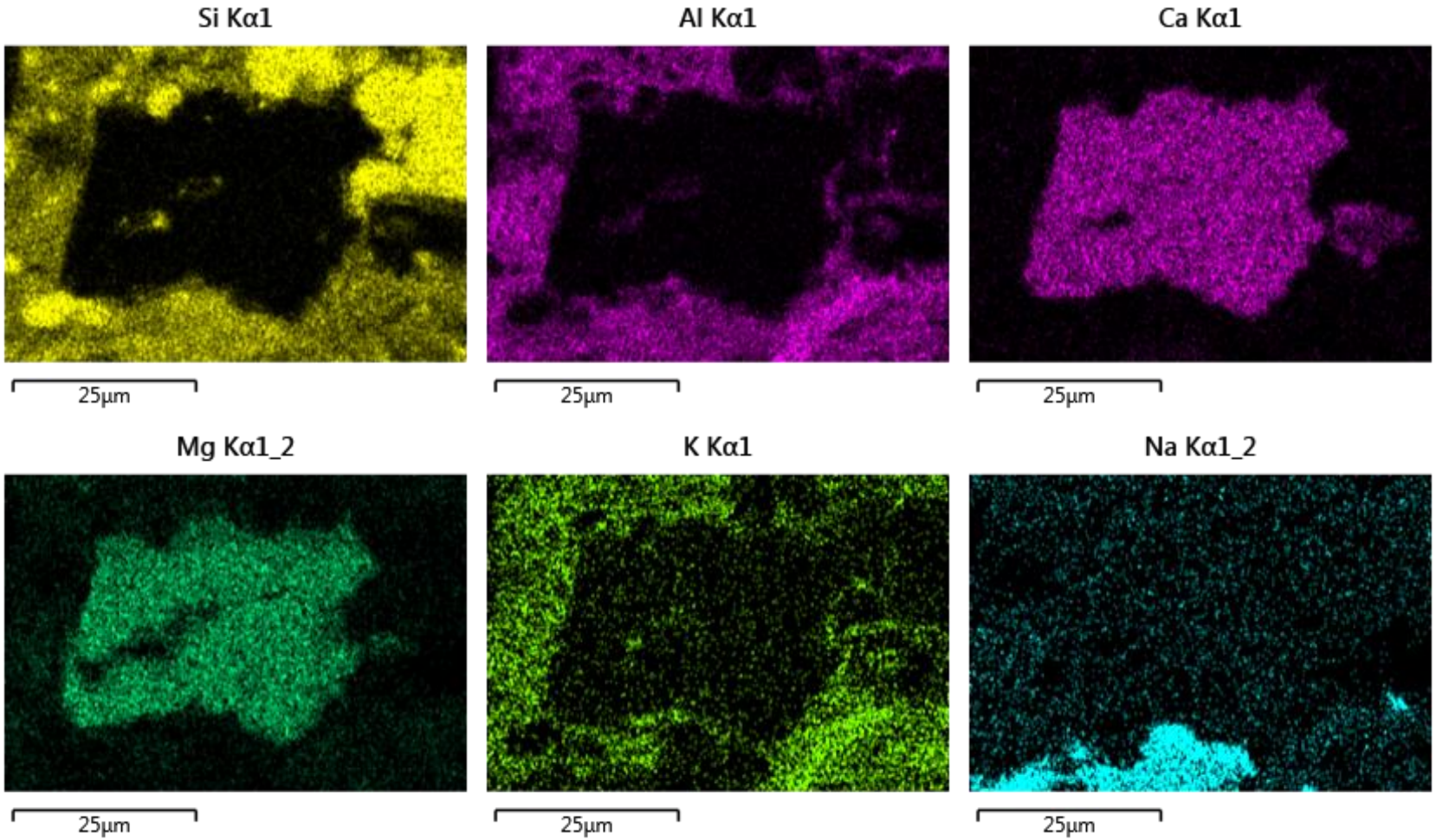

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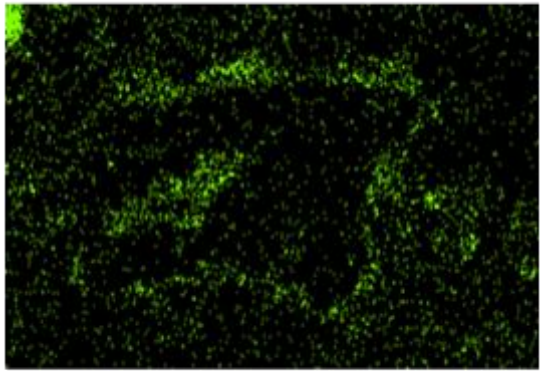
S Kα1



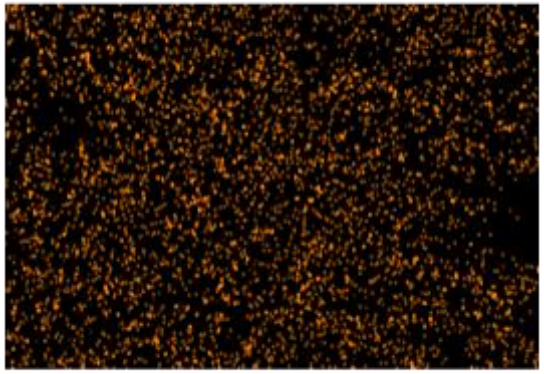
25µm

Fe Kα1



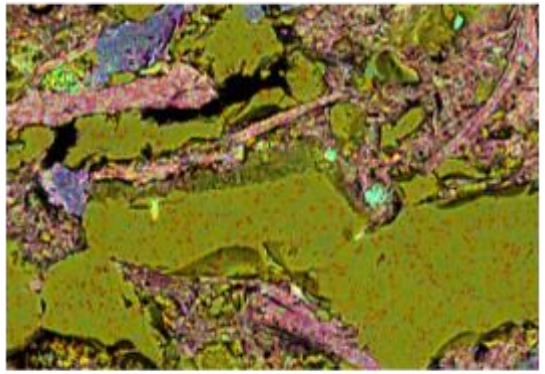
25µm

P Kα1



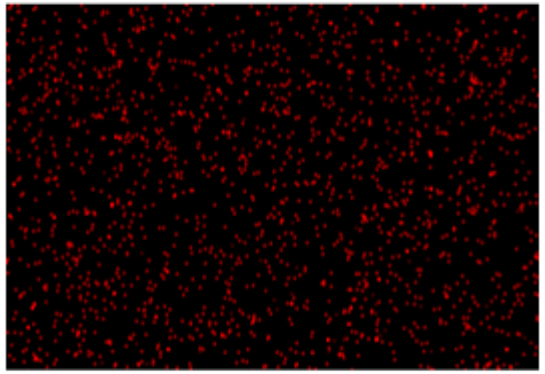
25µm

EDS Layered Image 6



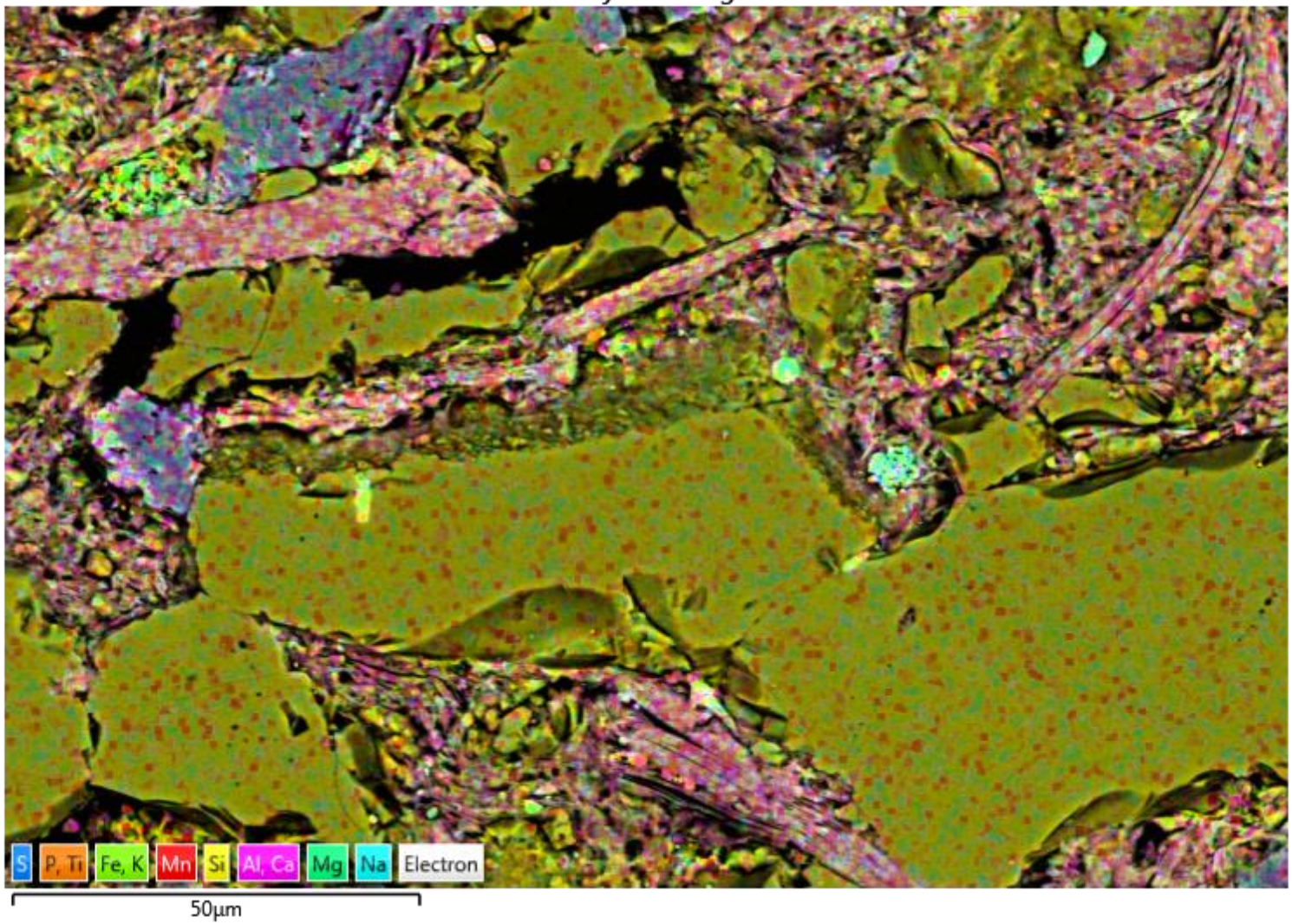
50µm

Mn Kα1



25µm

EDS Layered Image 6



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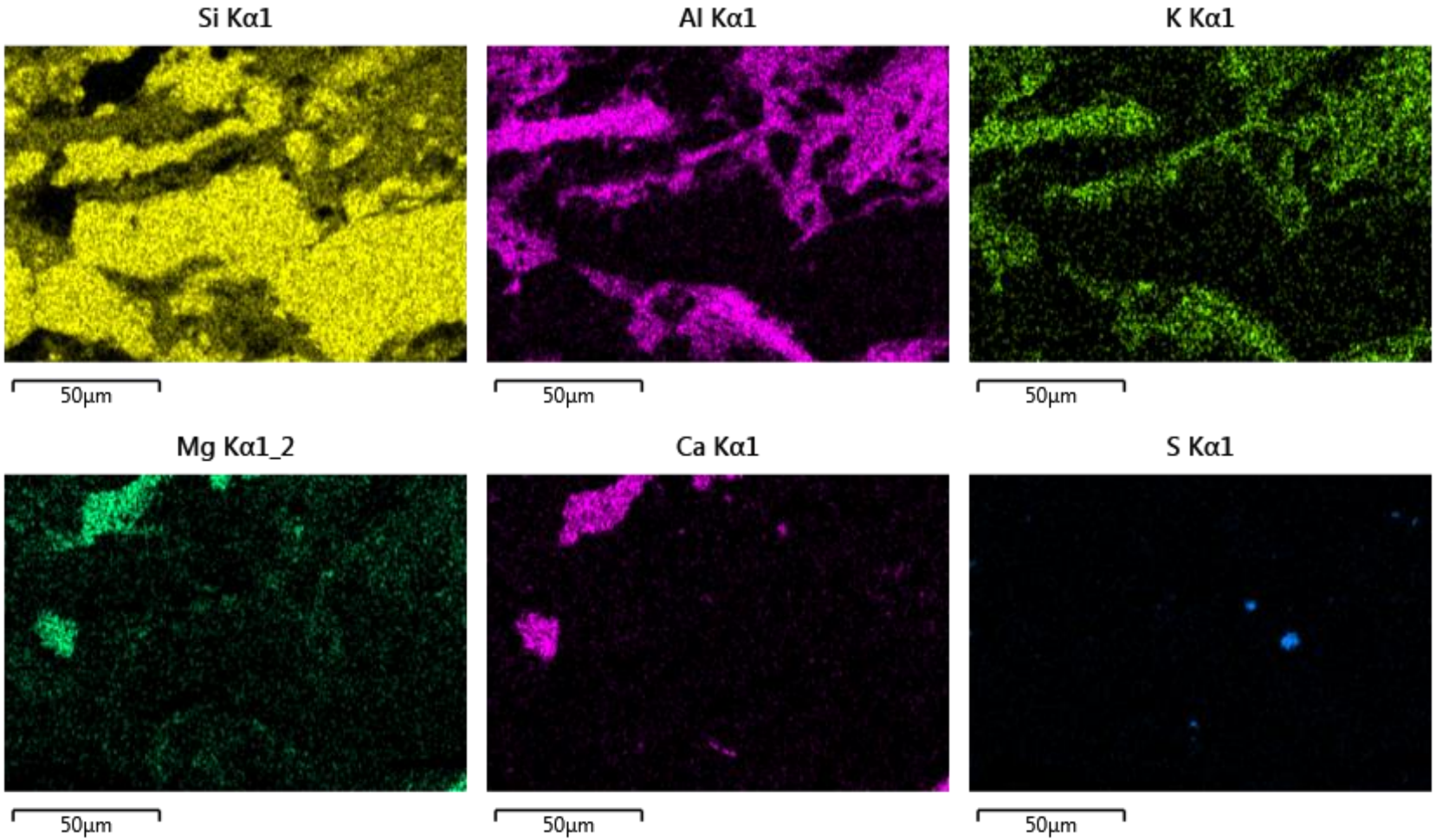

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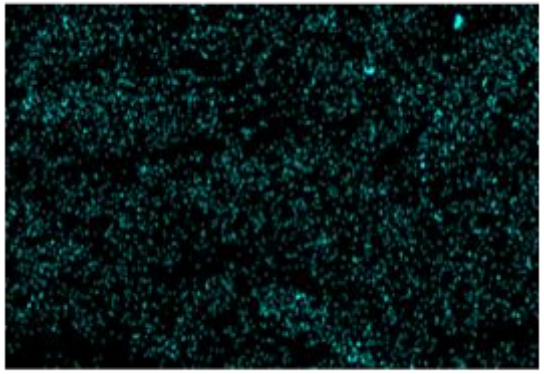
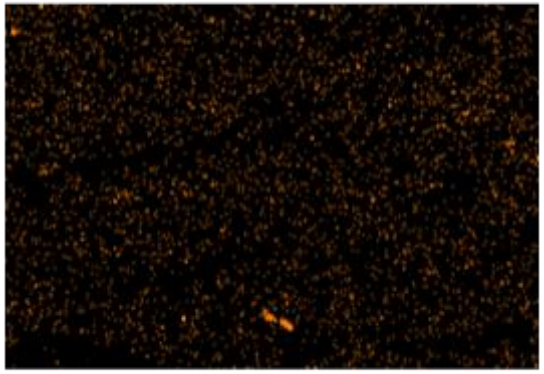
Na Kα1_2



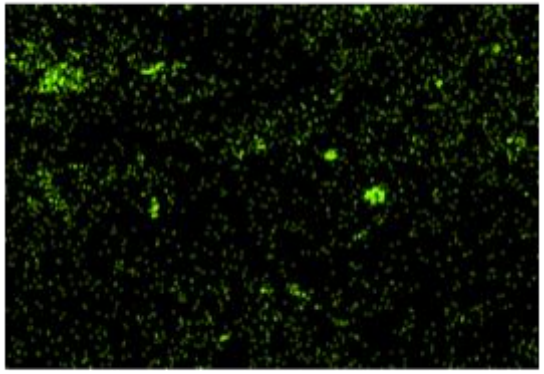
50µm

P Kα1



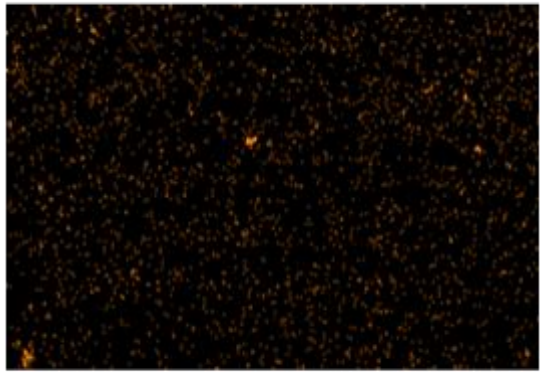
50µm

Fe Kα1



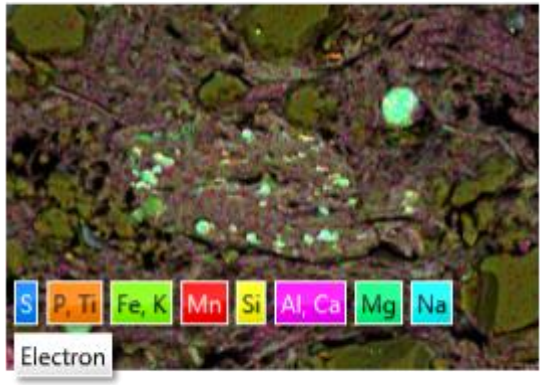
50µm

Ti Kα1



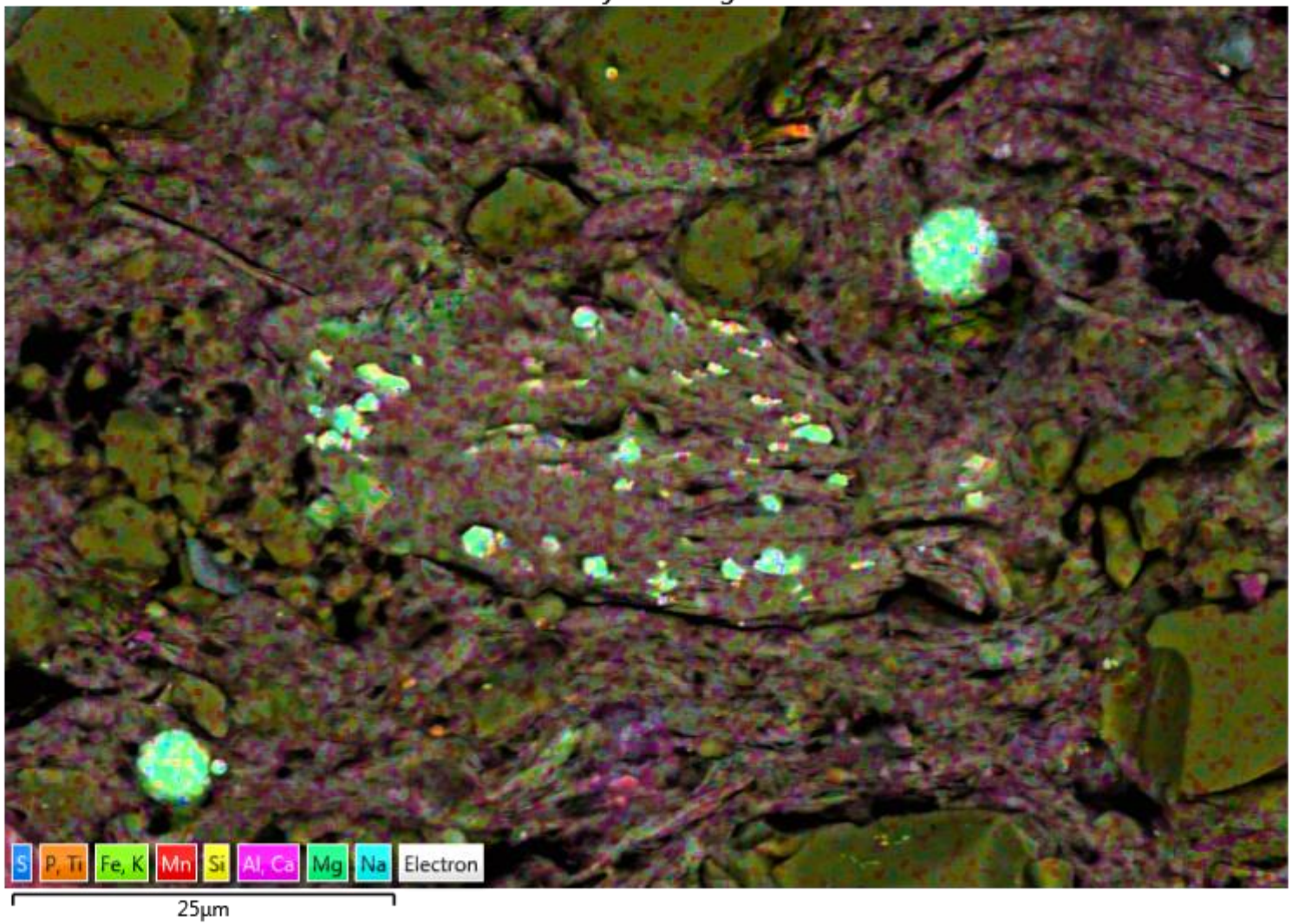
50µm

EDS Layered Image 7



25µm

EDS Layered Image 7



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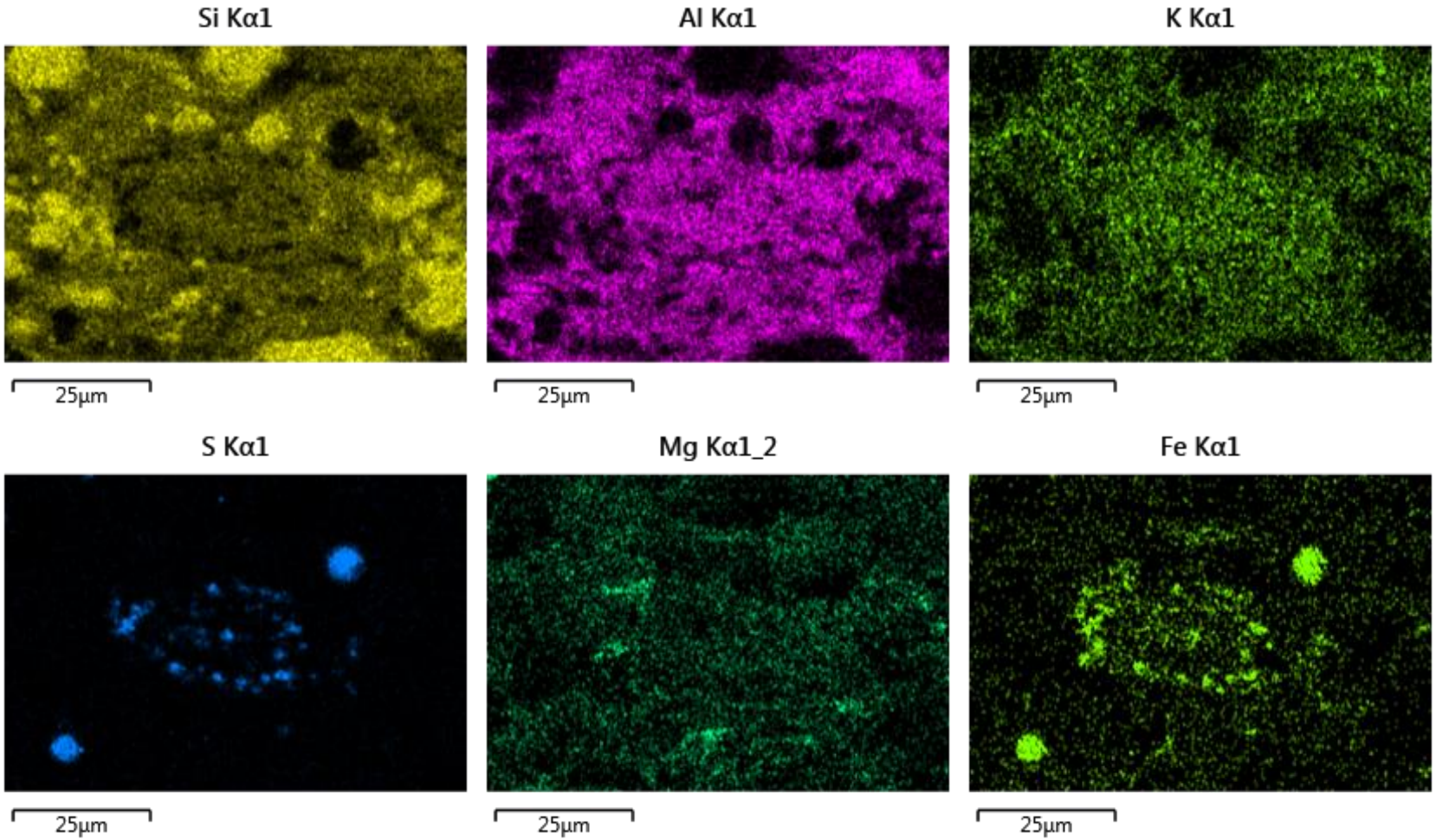
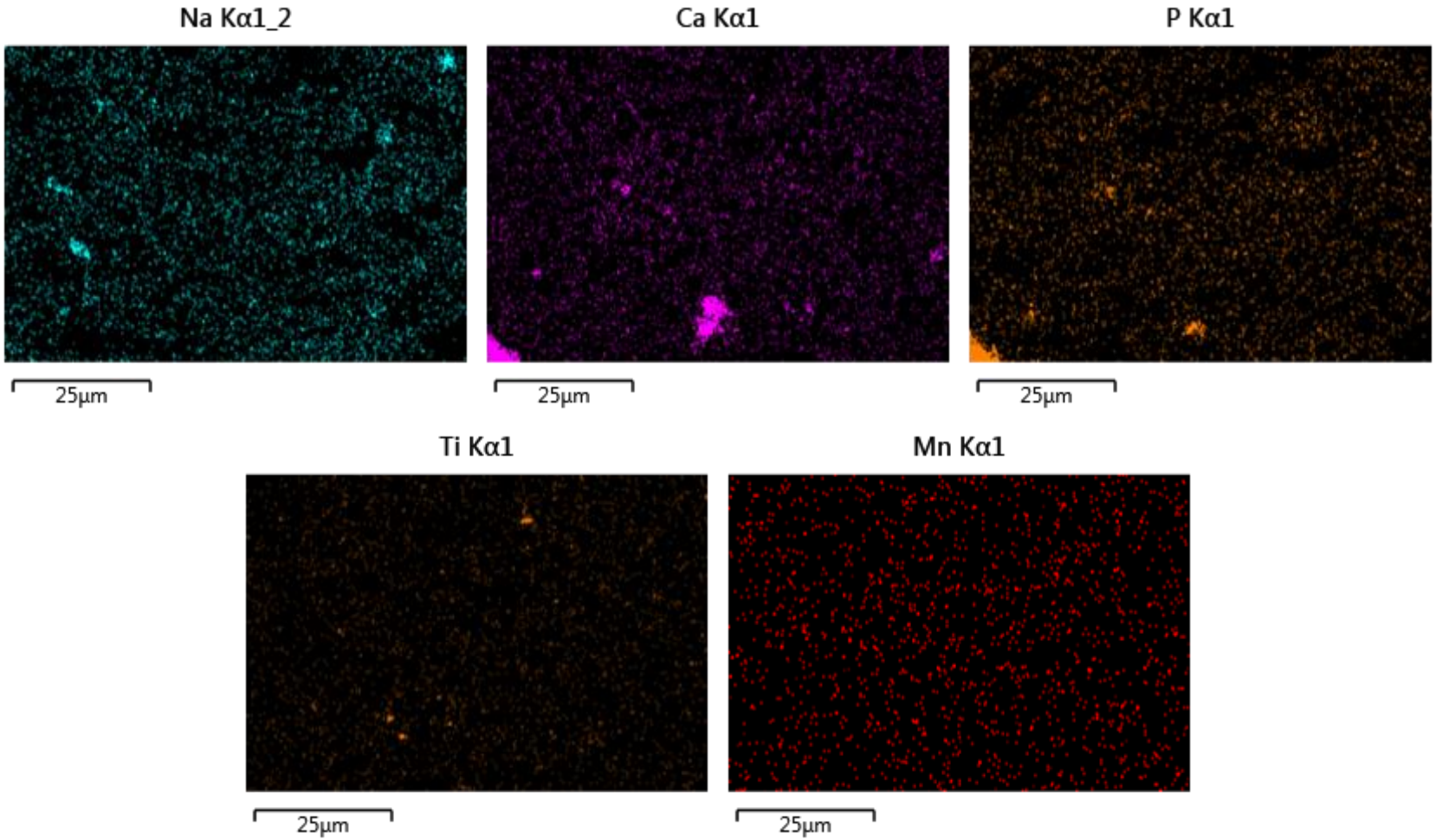

Si Kα1
Al Kα1
K Kα1
25µm
25µm
25µm
S Kα1
Mg Kα1_2
Fe Kα1
25µm
25µm
25µm



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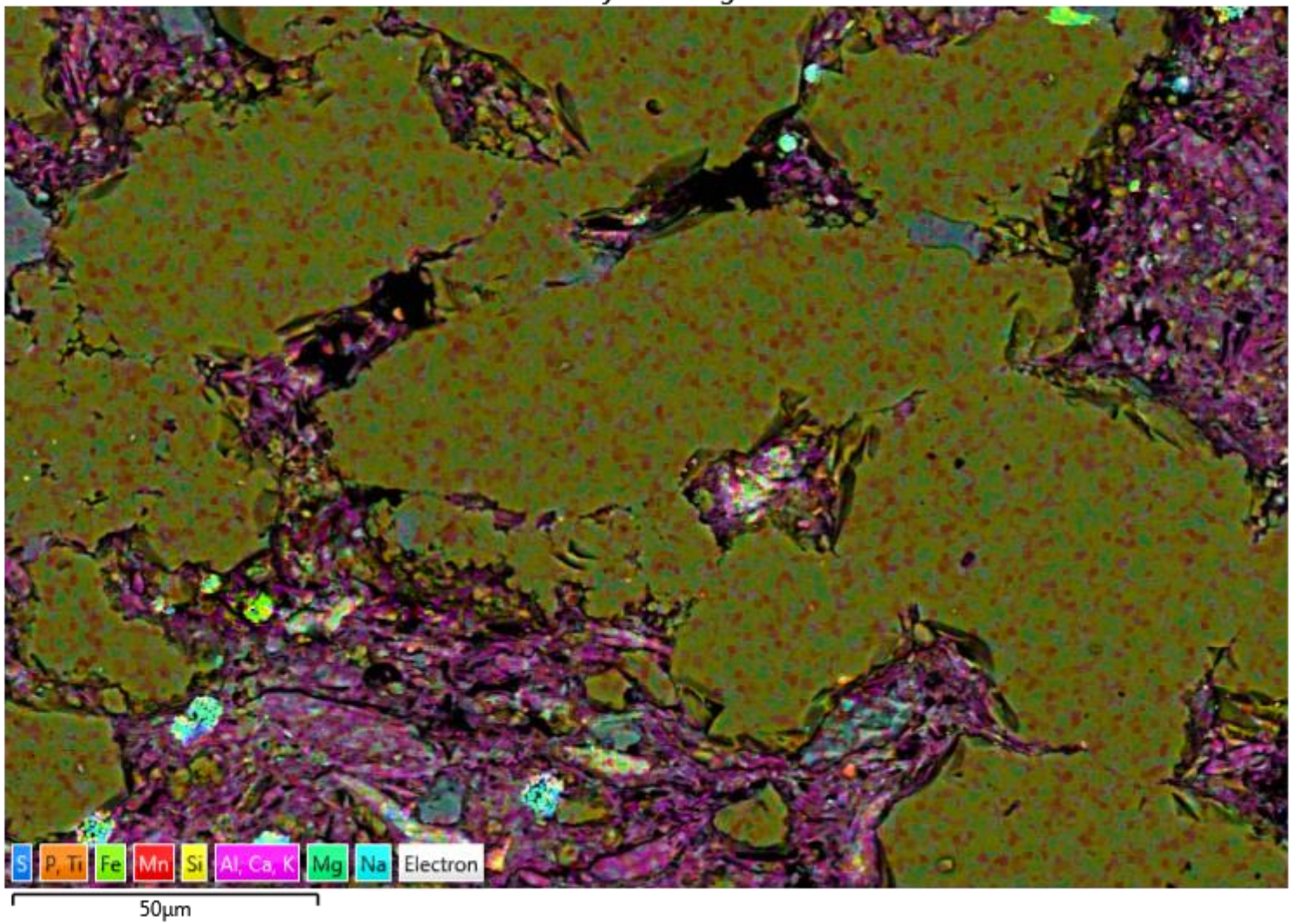
EDS Layered Image 8



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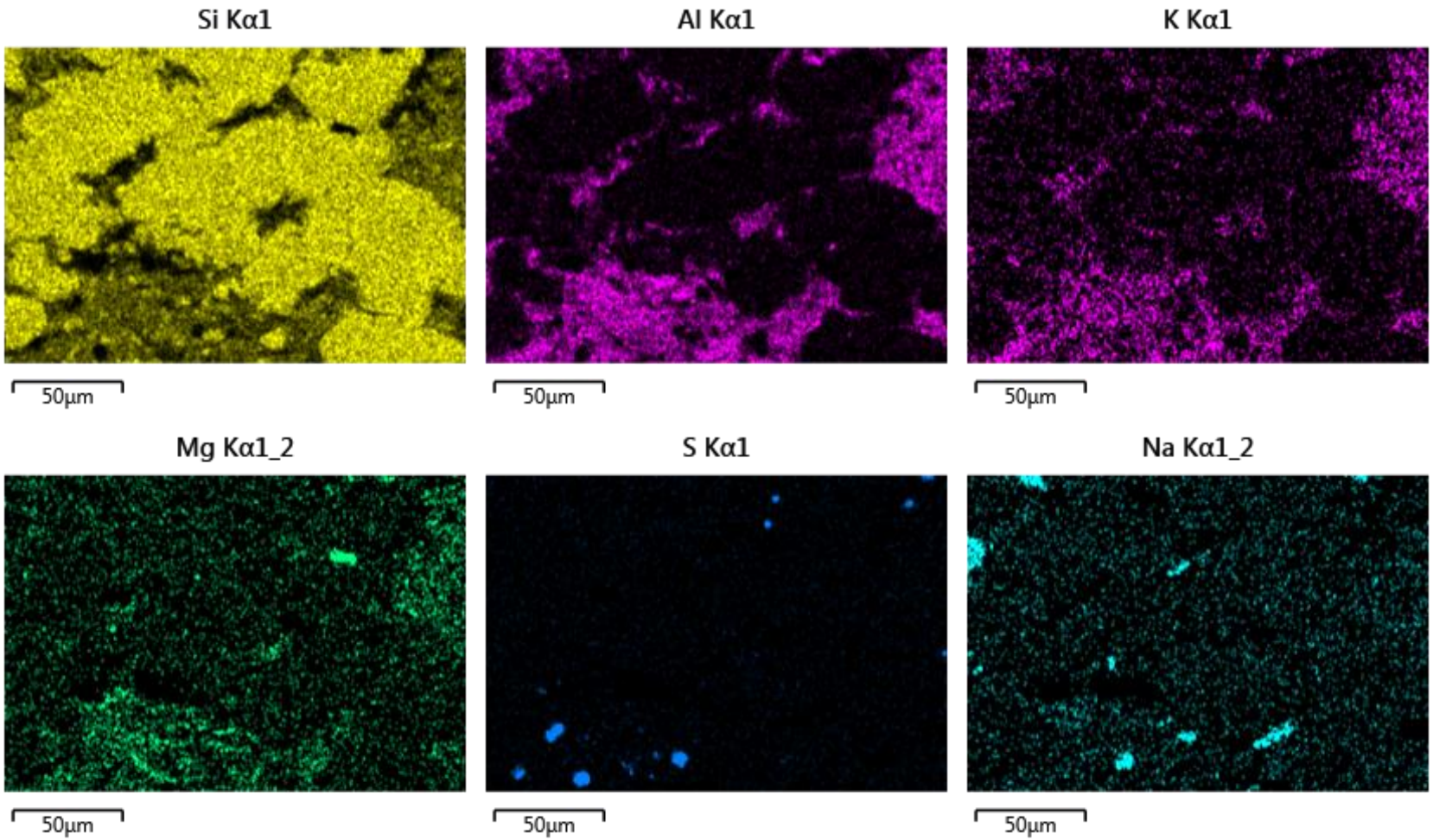

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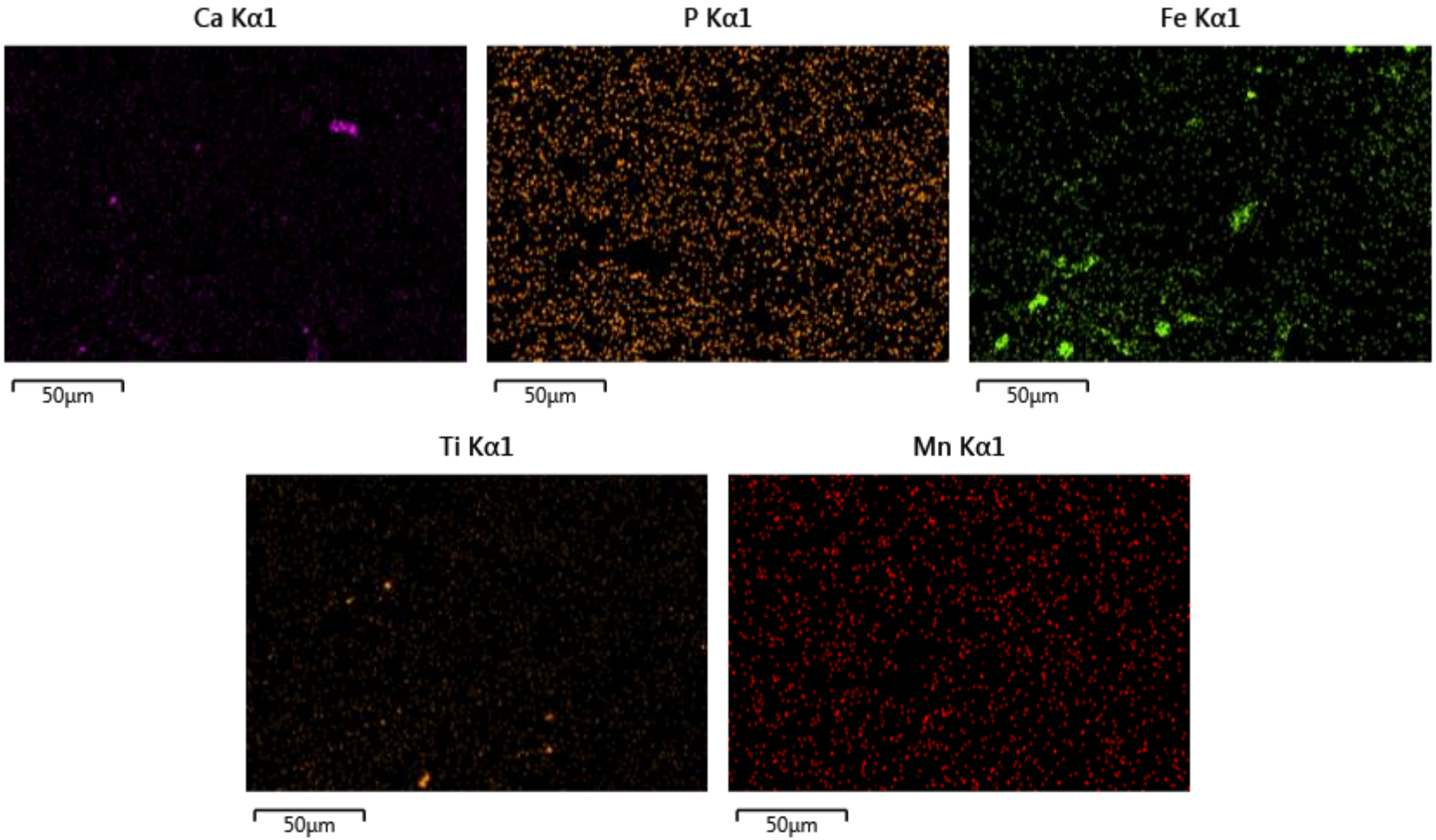

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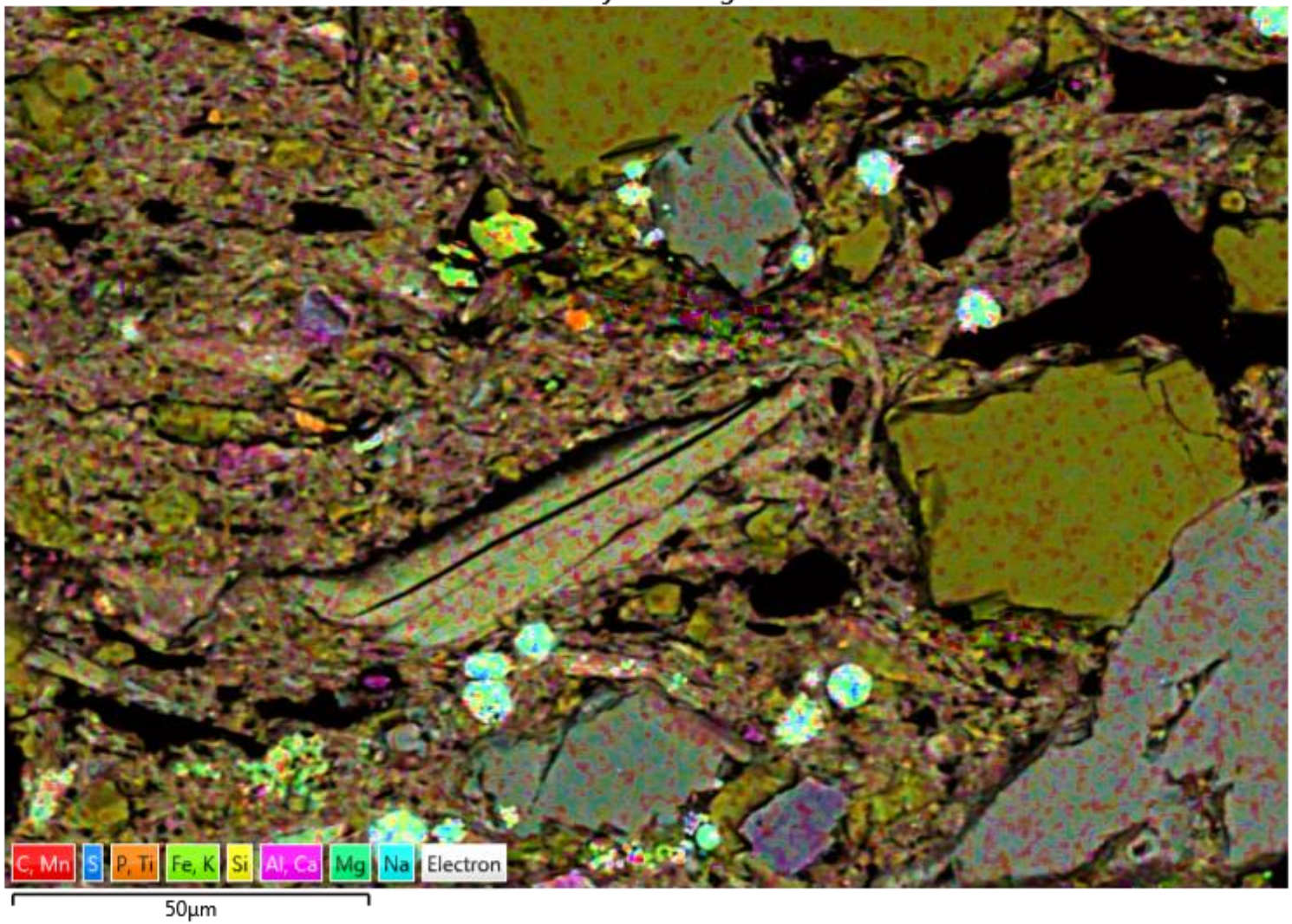
EDS Layered Image 9



OXFORD INSTRUMENTS
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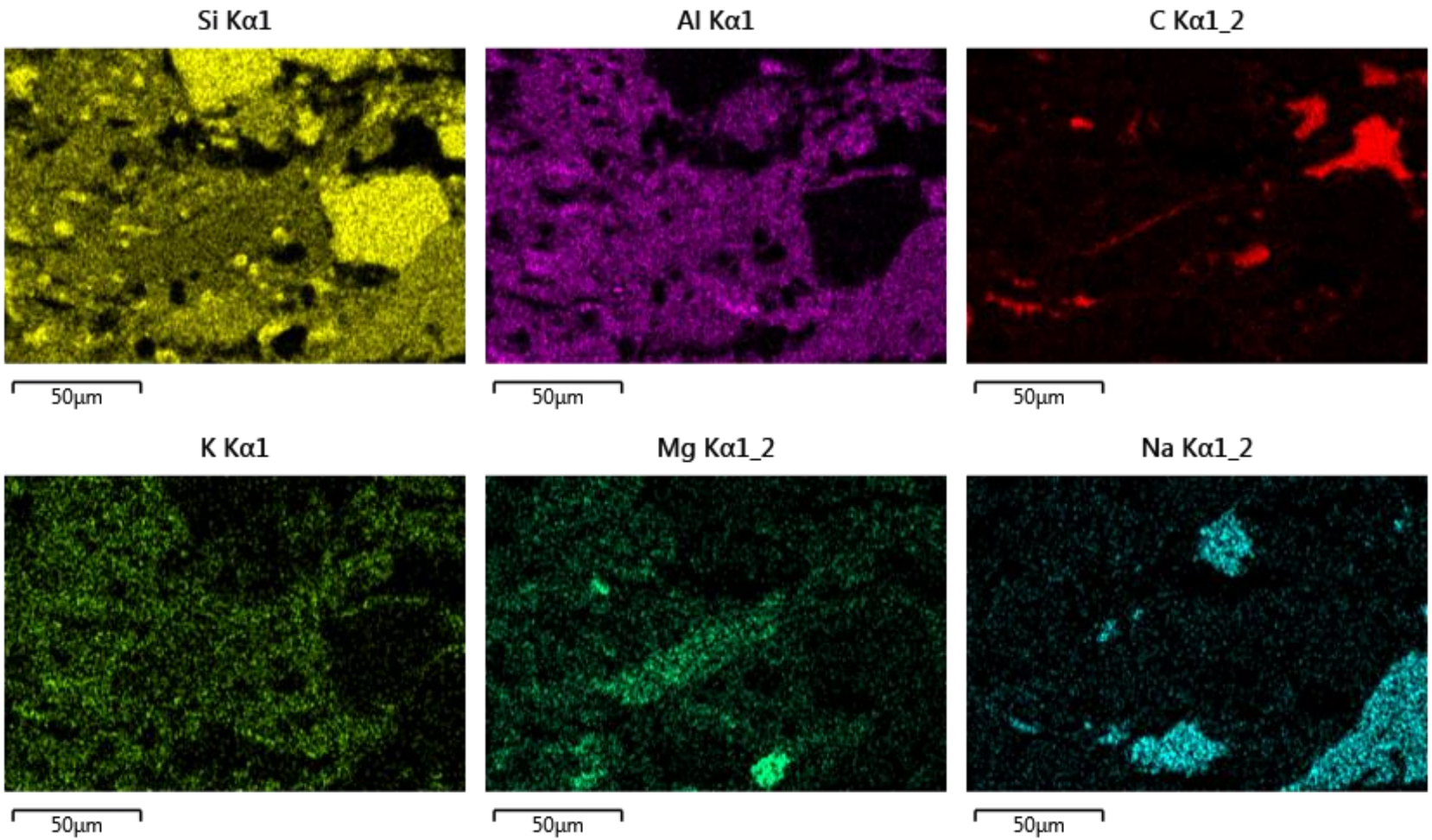

OXFORD INSTRUMENTS
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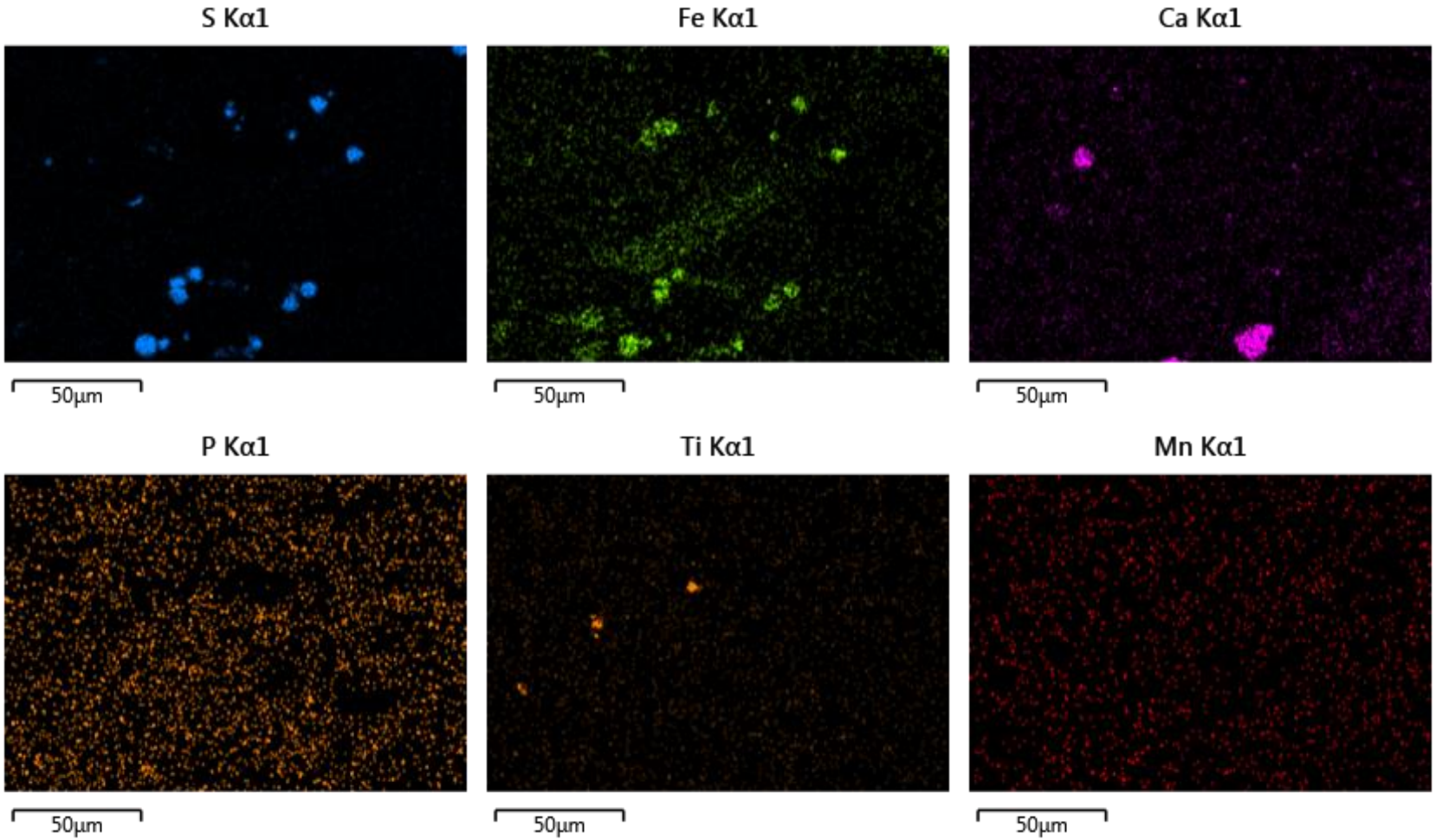

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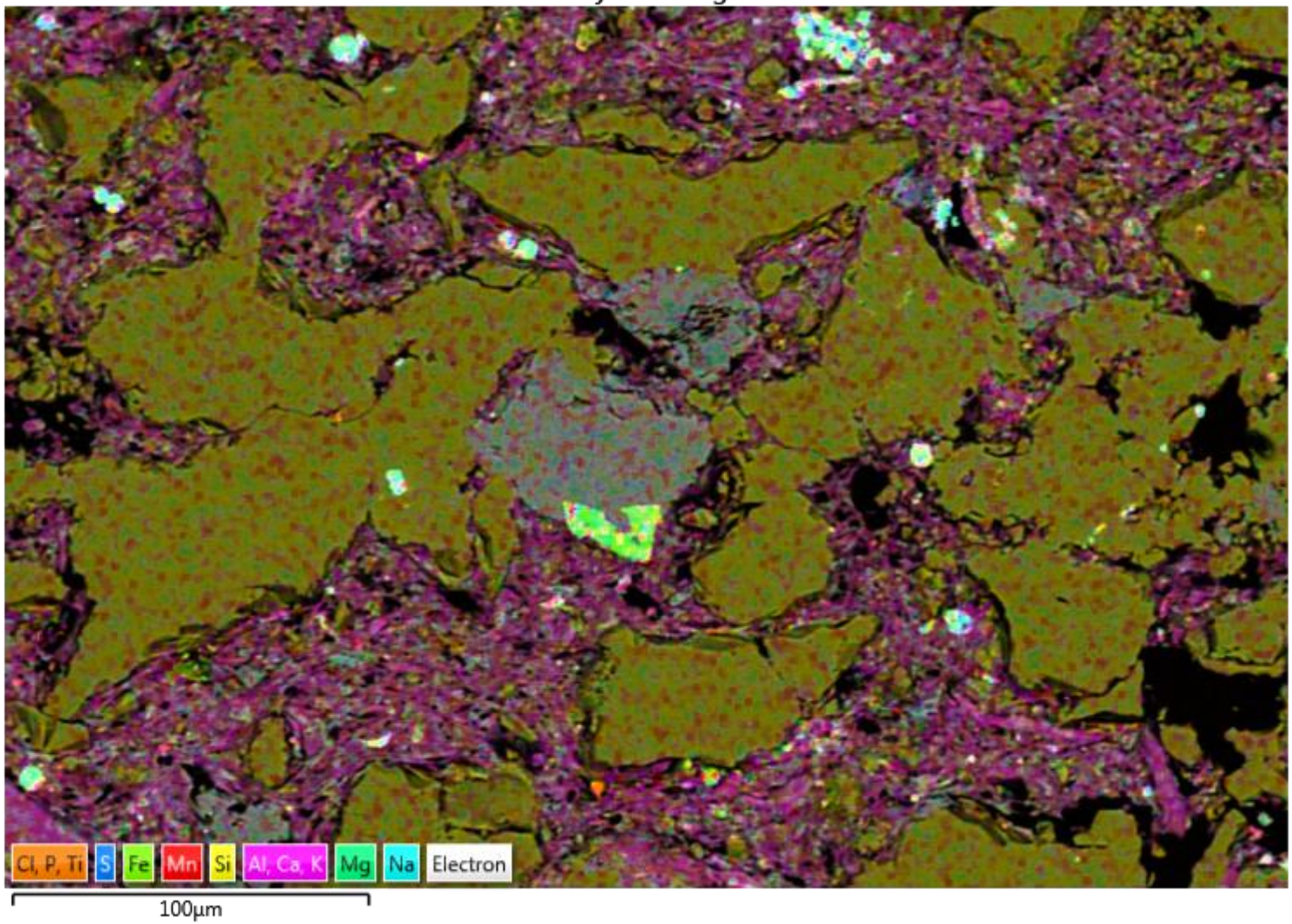
EDS Layered Image 10



OXFORD INSTRUMENTS
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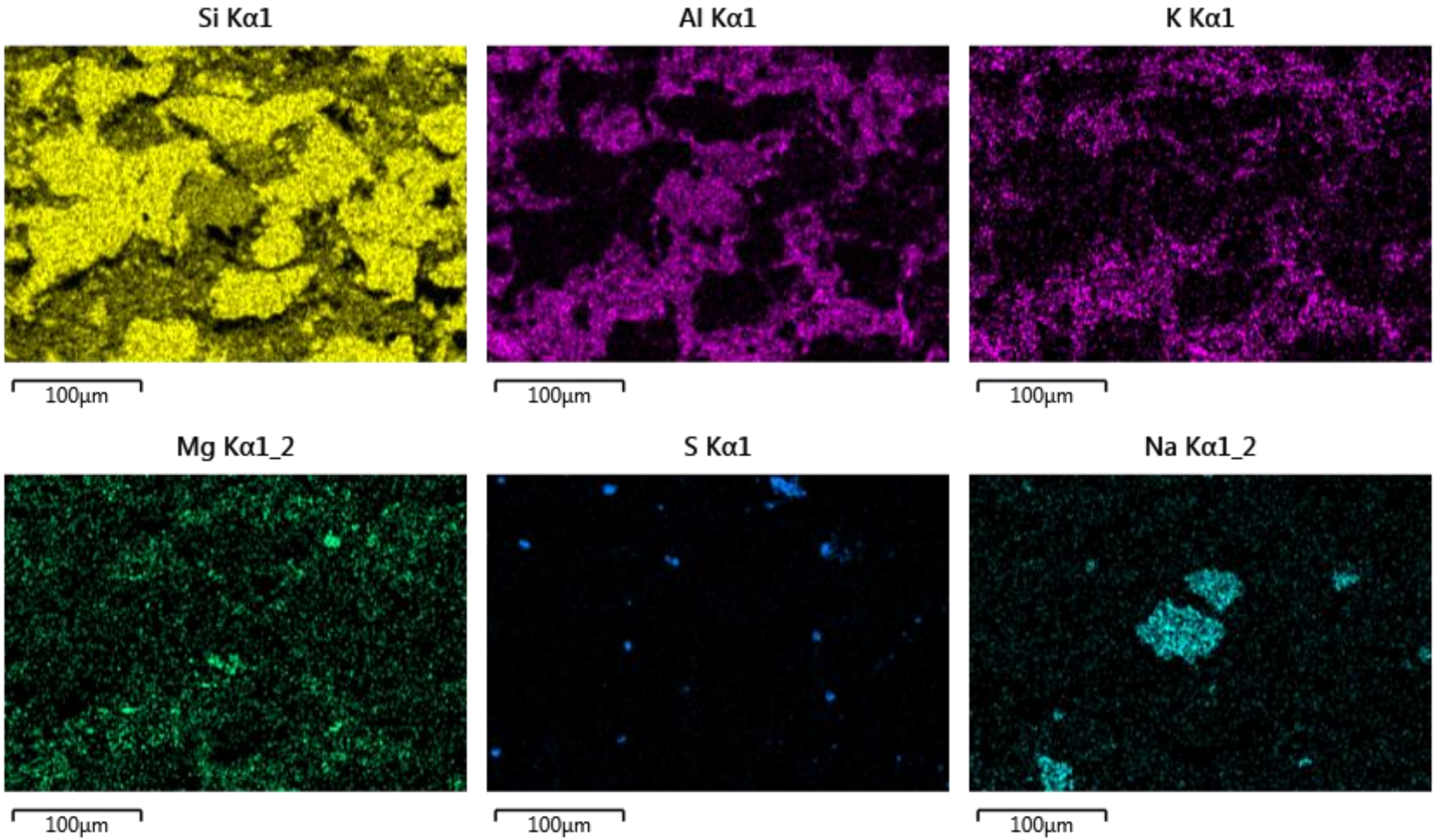

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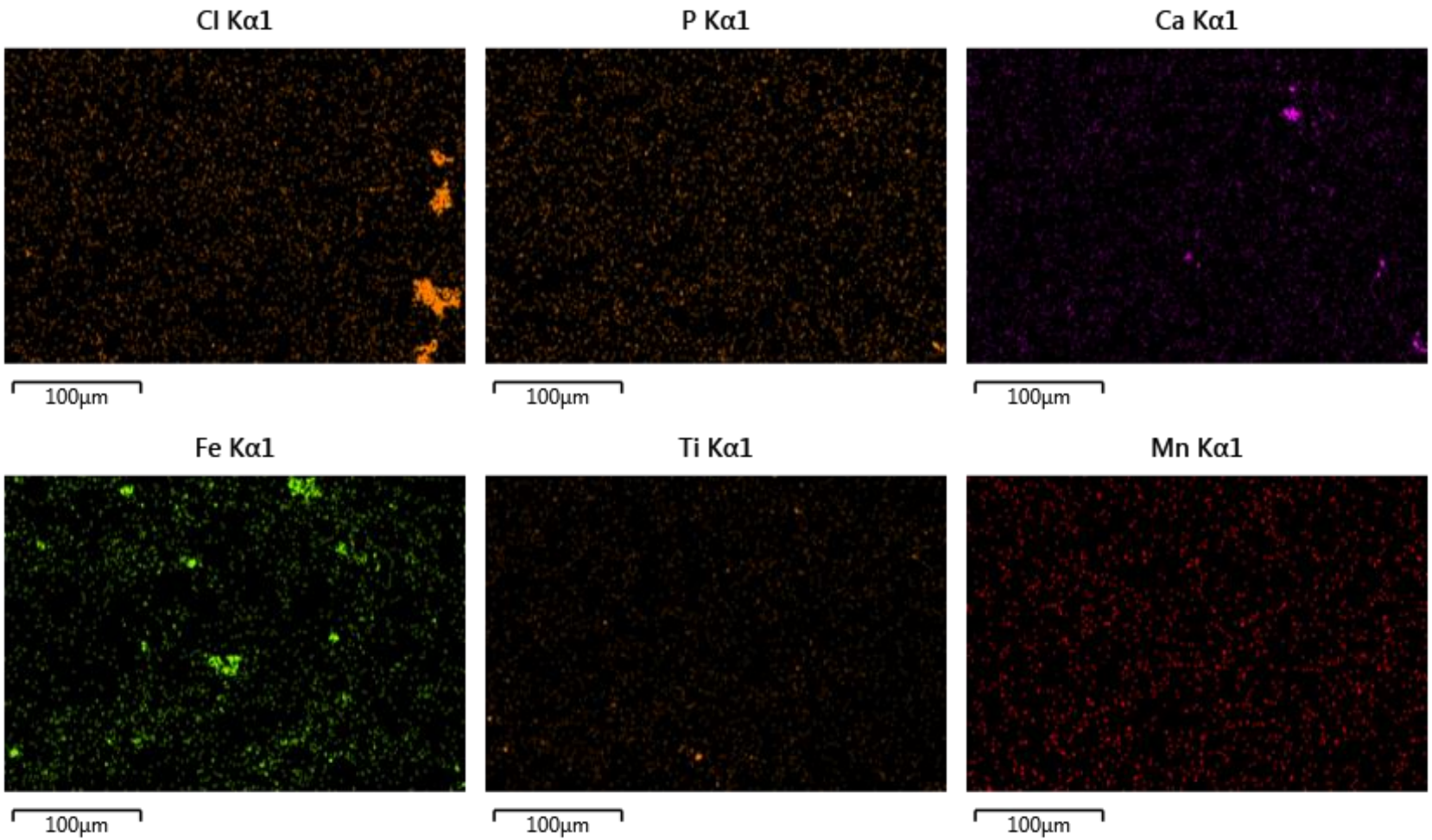

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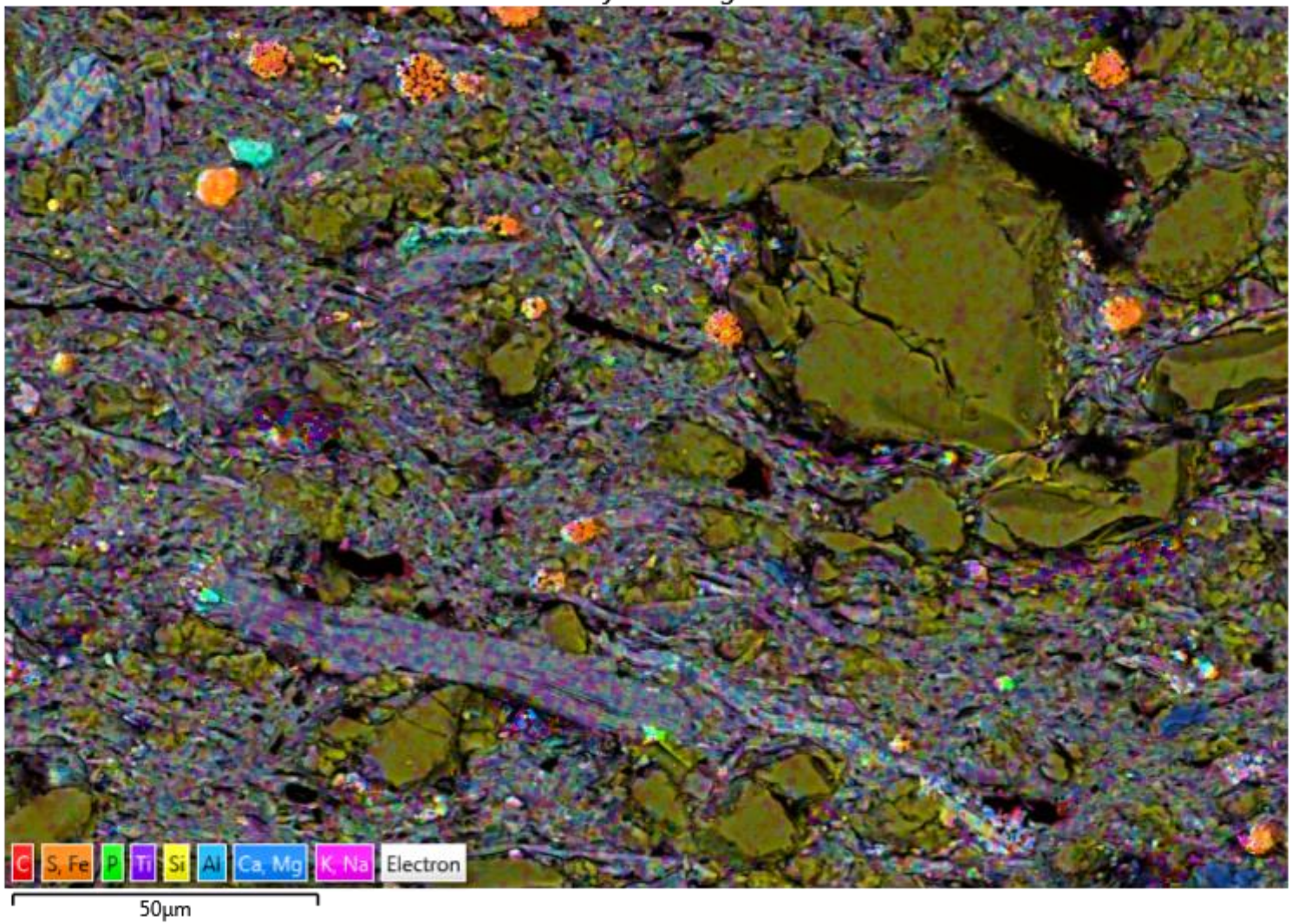
EDS Layered Image 1



OXFORD INSTRUMENTS
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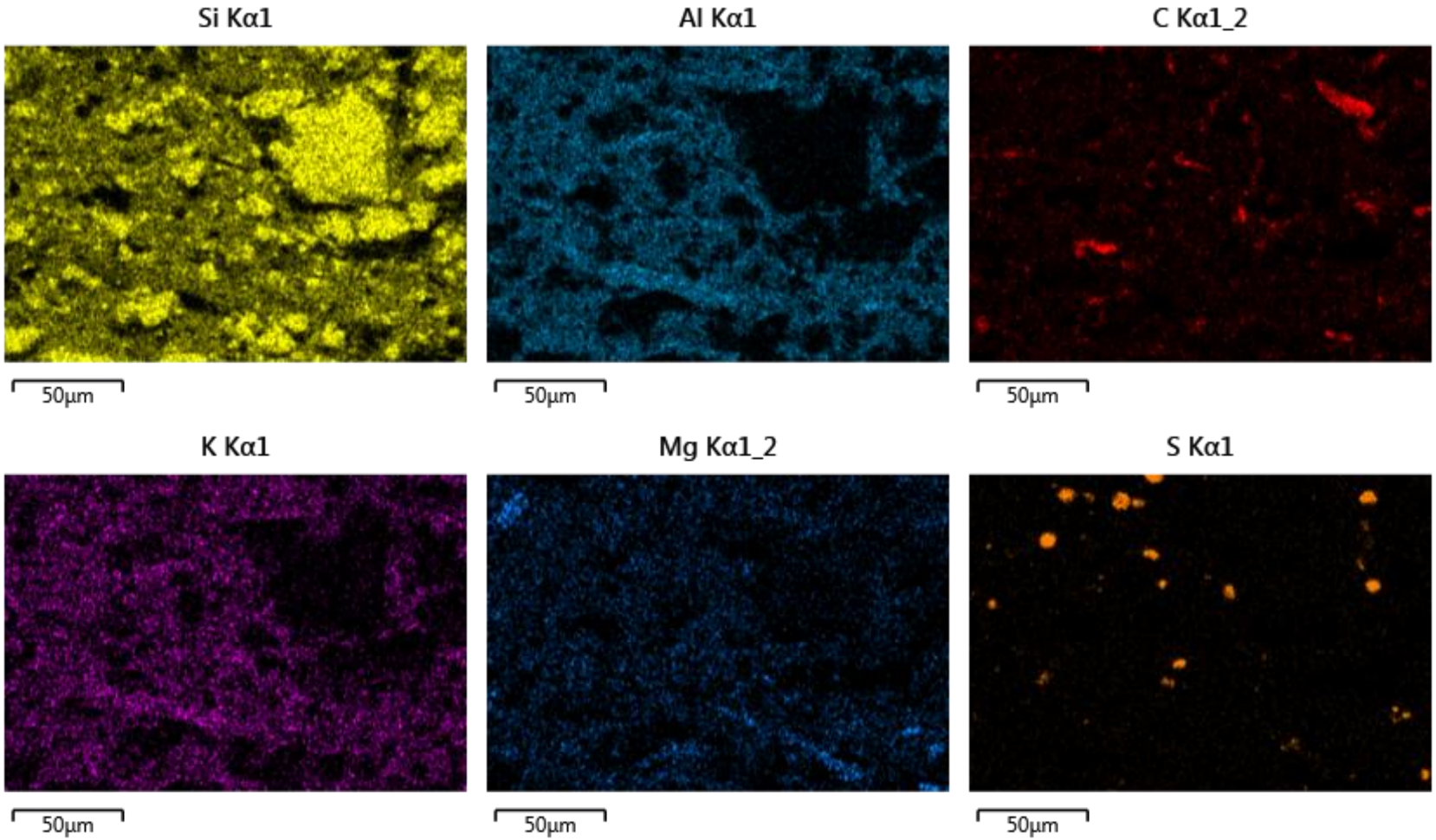
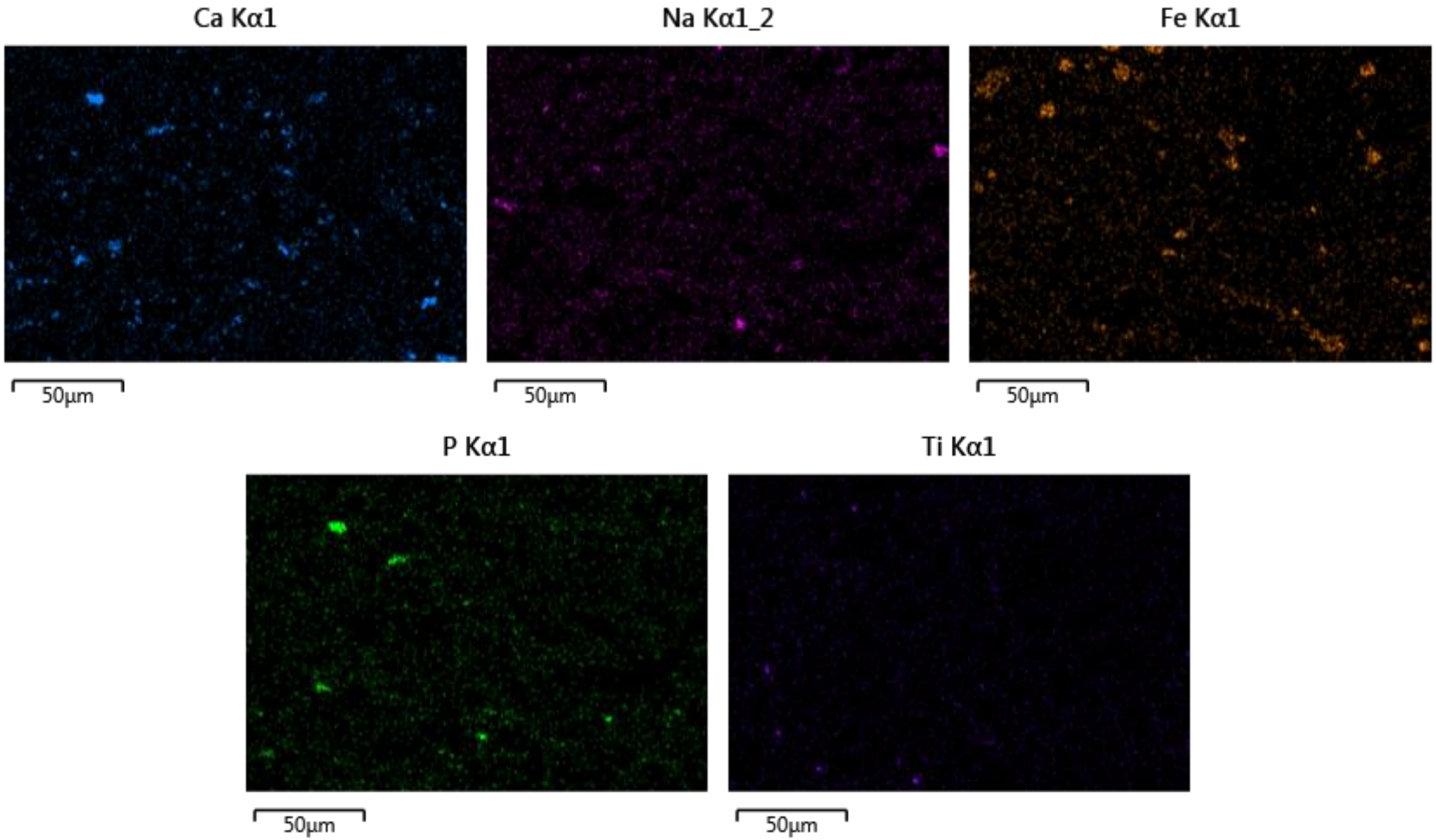
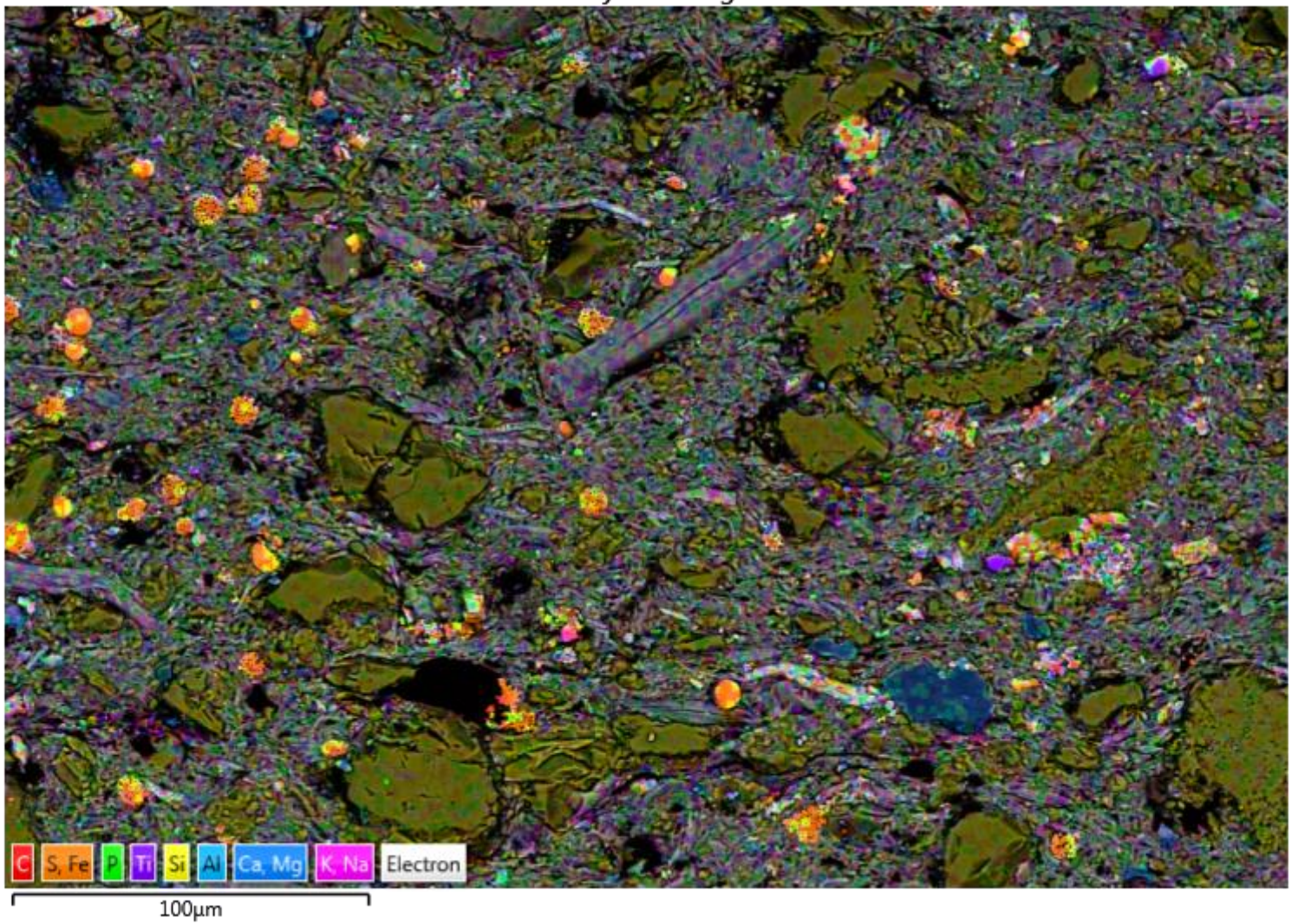
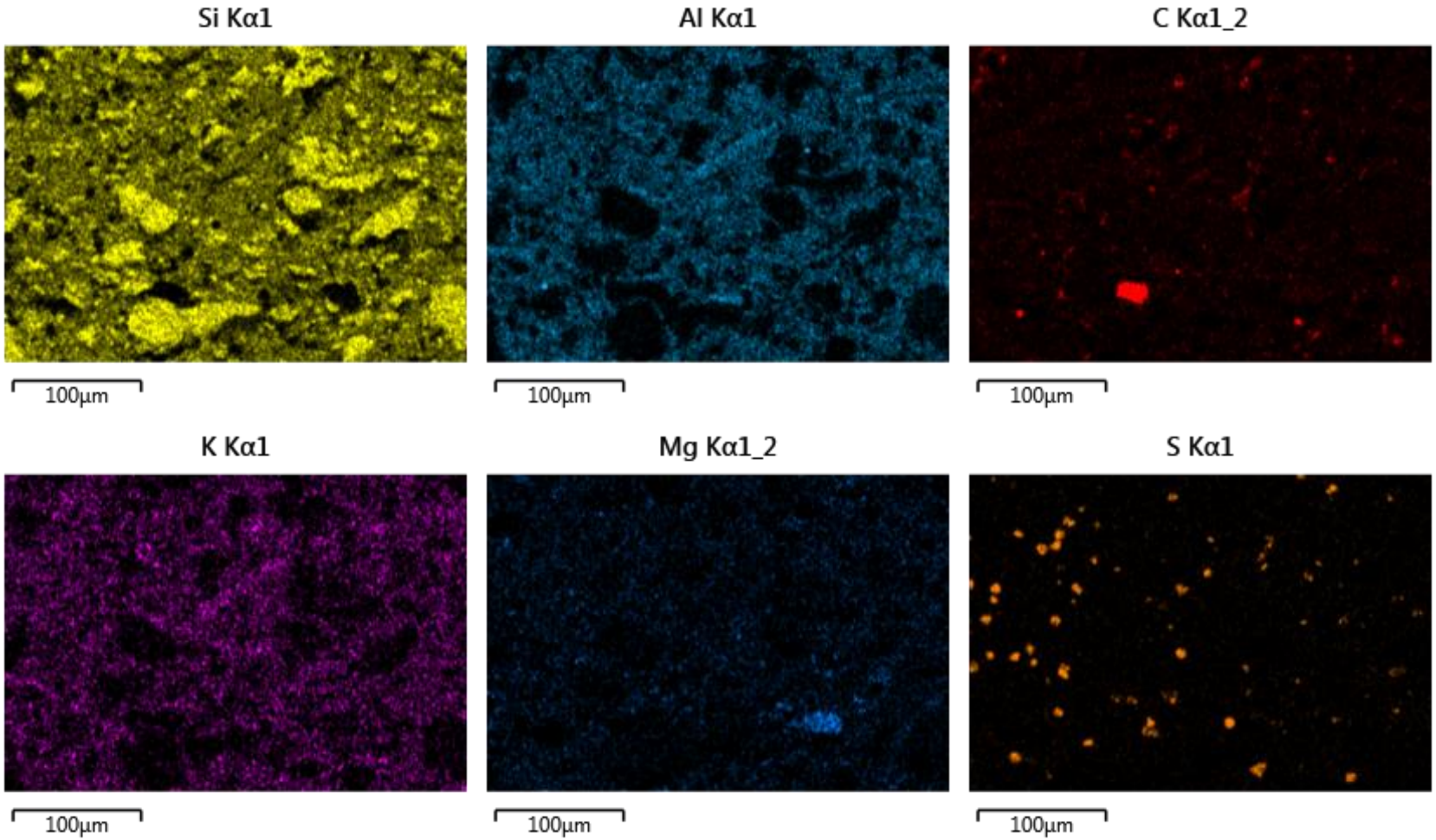

Si Kα1
50µm
Al Kα1
50µm
C Kα1_2
50µm
K Kα1
50µm
Mg Kα1_2
50µm
S Kα1
50µm

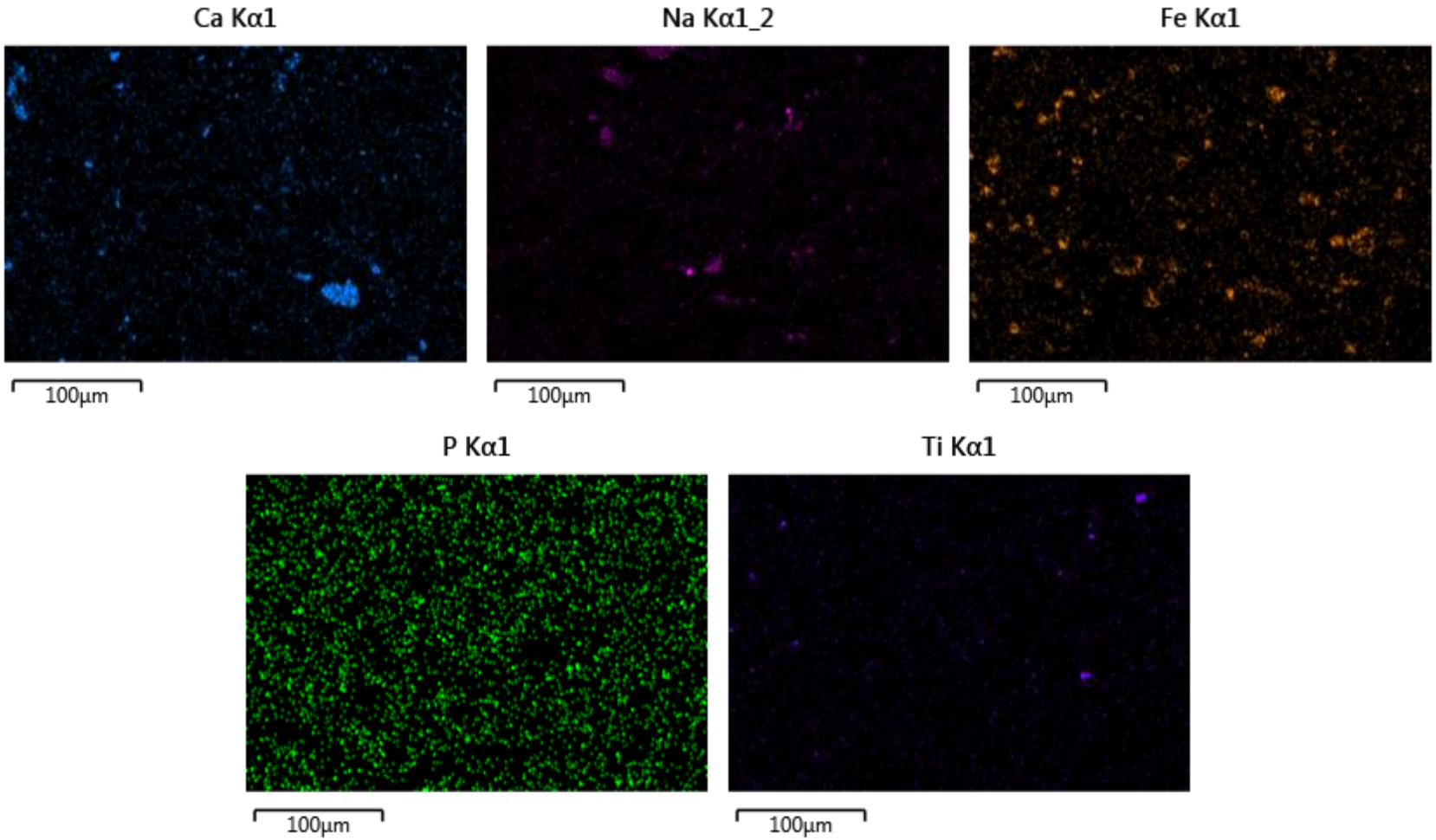

Ca Kα1
Na Kα1_2
Fe Kα1
50µm
50µm
50µm
P Kα1
Ti Kα1
50µm
50µm

EDS Layered Image 2

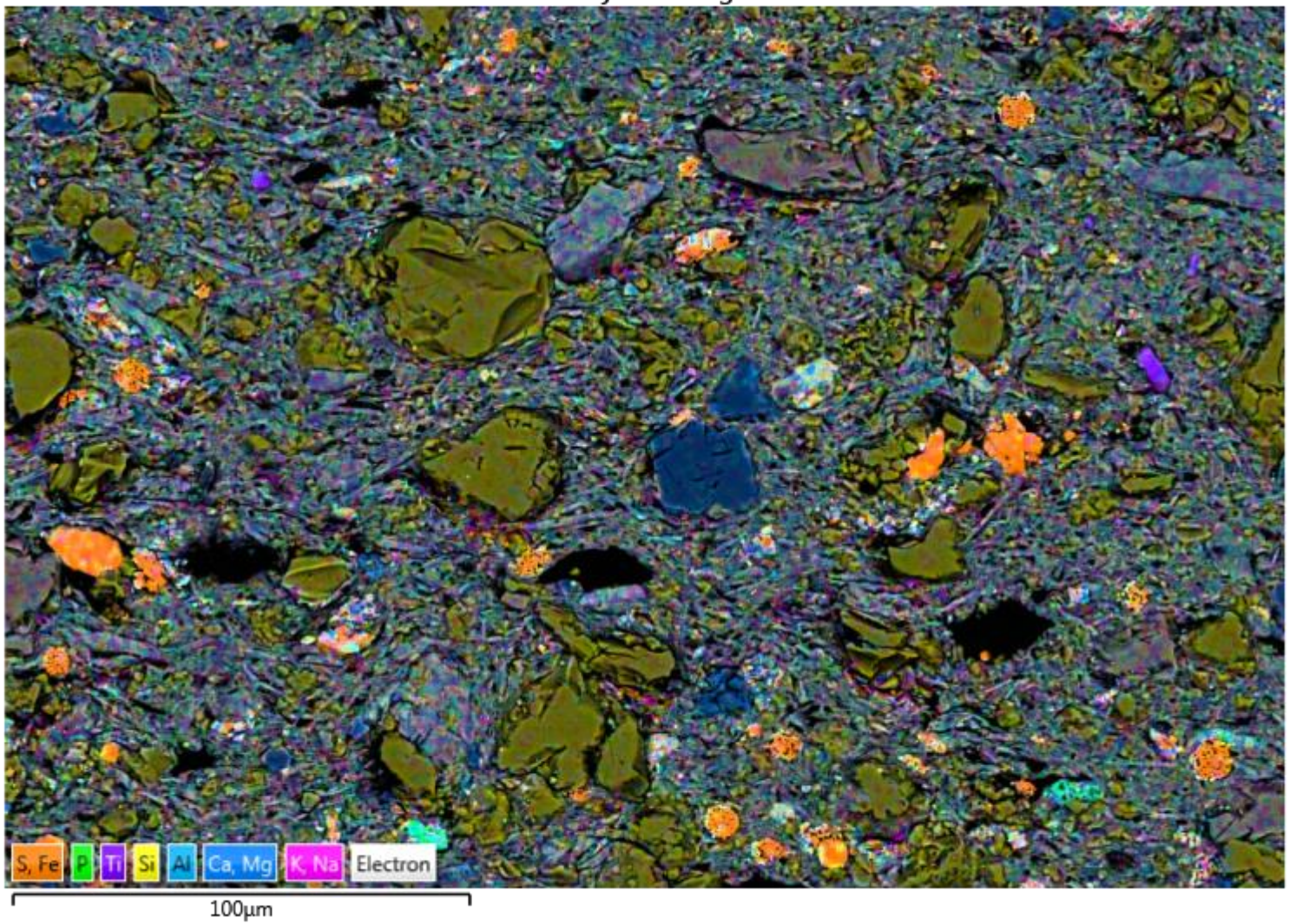


OXFORD INSTRUMENTS
The Business of Science®


Si Kα1
100µm
Al Kα1
100µm
C Kα1_2
100µm
K Kα1
100µm
Mg Kα1_2
100µm
S Kα1
100µm


Ca Kα1
Na Kα1_2
Fe Kα1
100µm
100µm
100µm
P Kα1
Ti Kα1
100µm
100µm

EDS Layered Image 3



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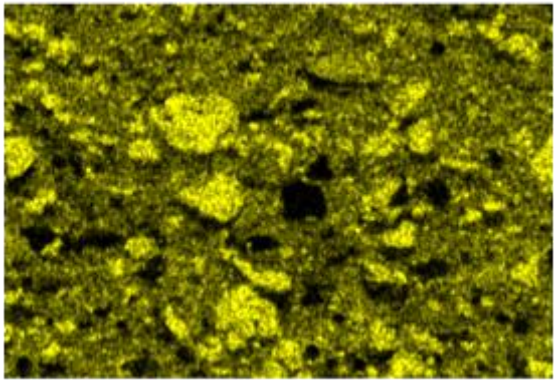
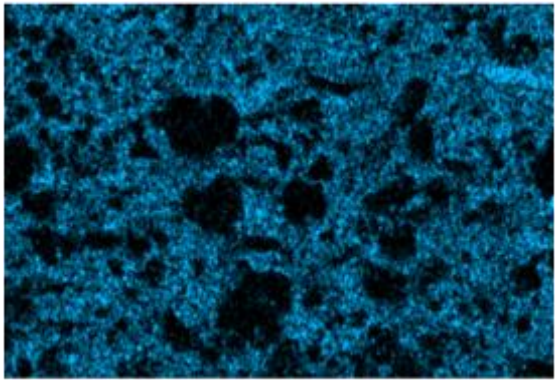
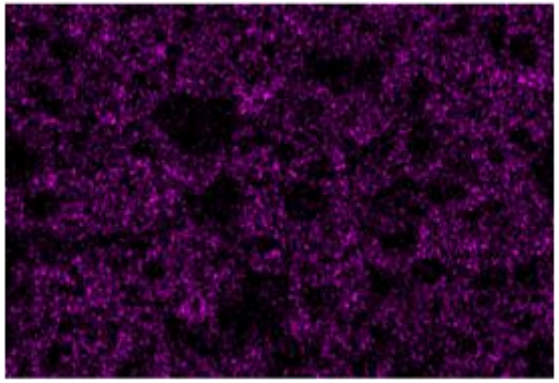
Si Kα1



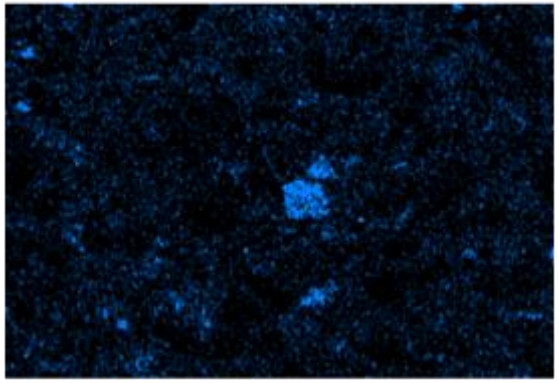
Al Kα1



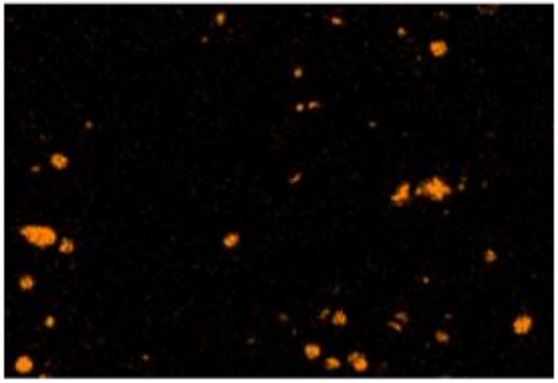
K Kα1



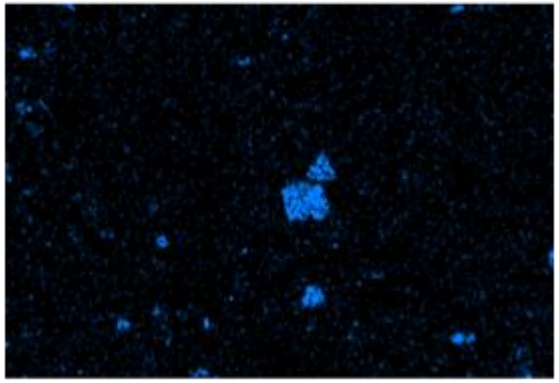
Mg Kα1_2



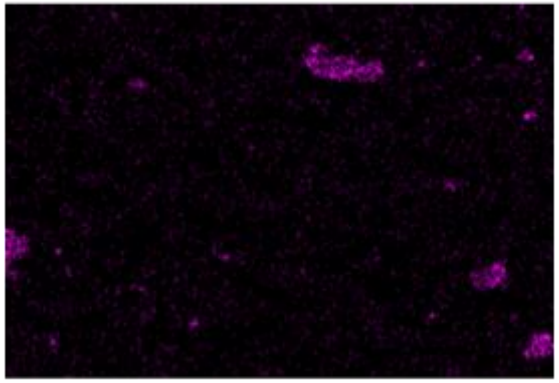
S Kα1



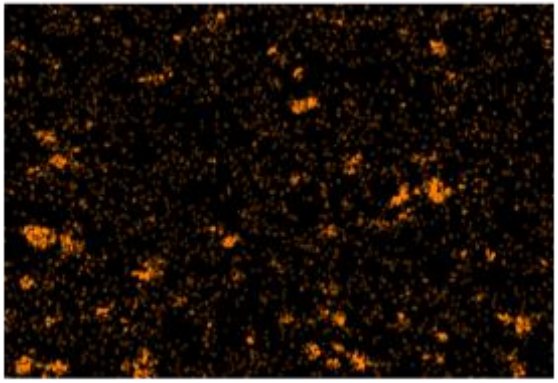
Ca Kα1



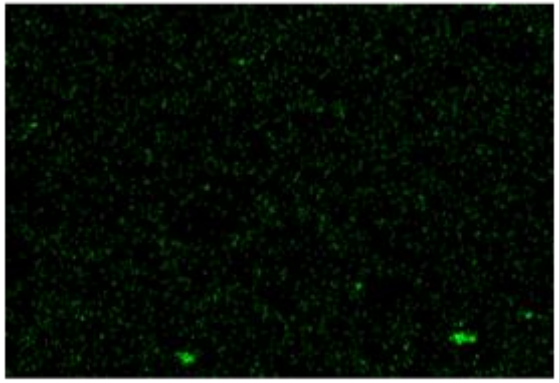
Na Kα1_2



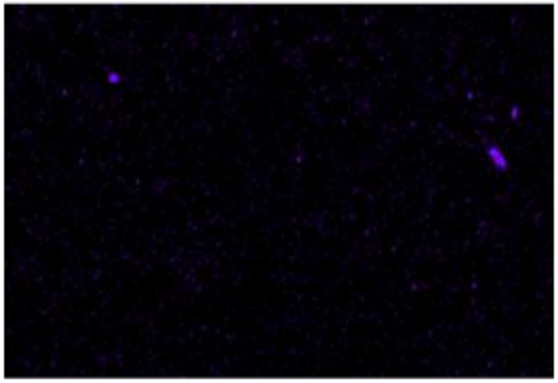
Fe Kα1



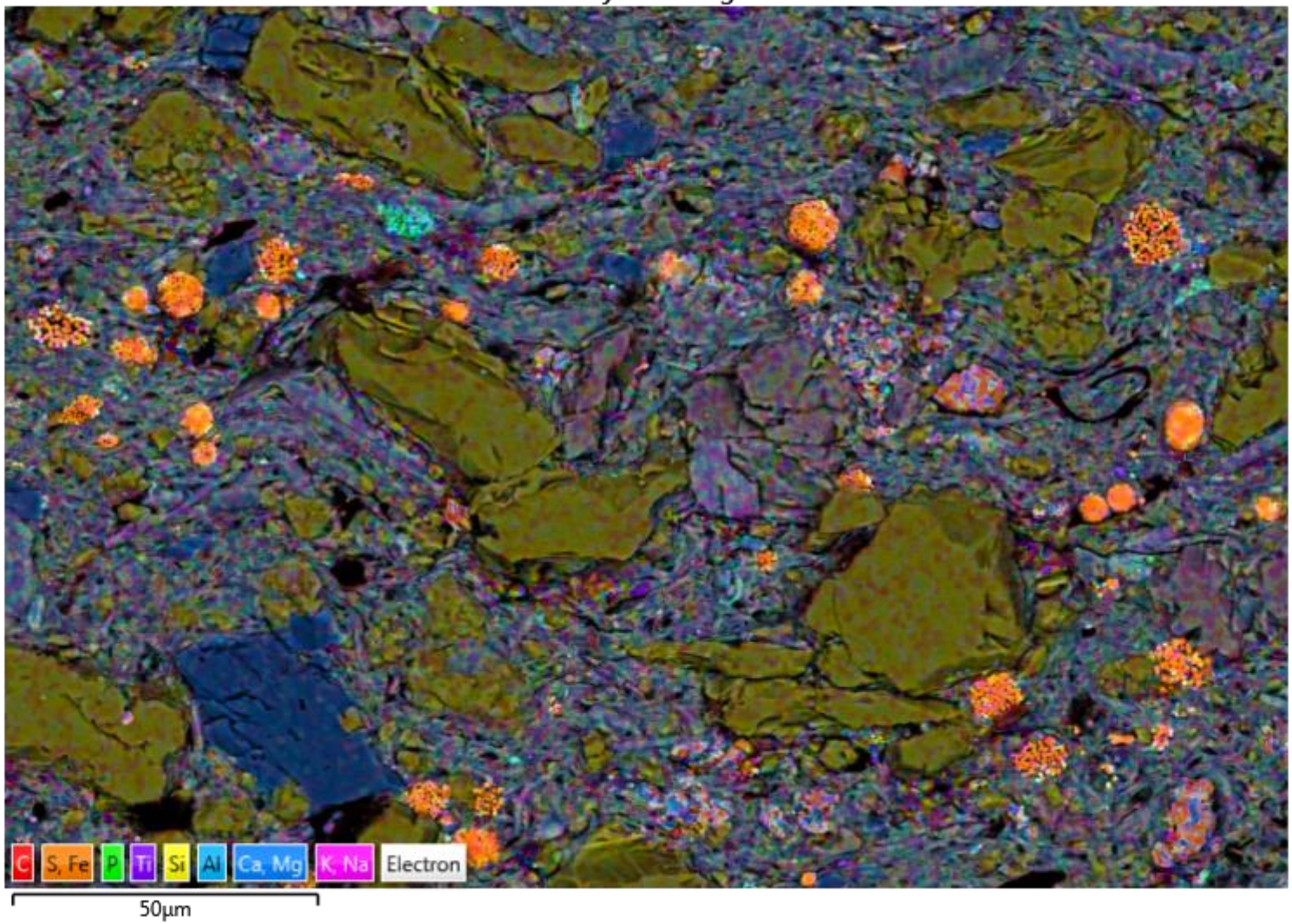
P Kα1



Ti Kα1



EDS Layered Image 4



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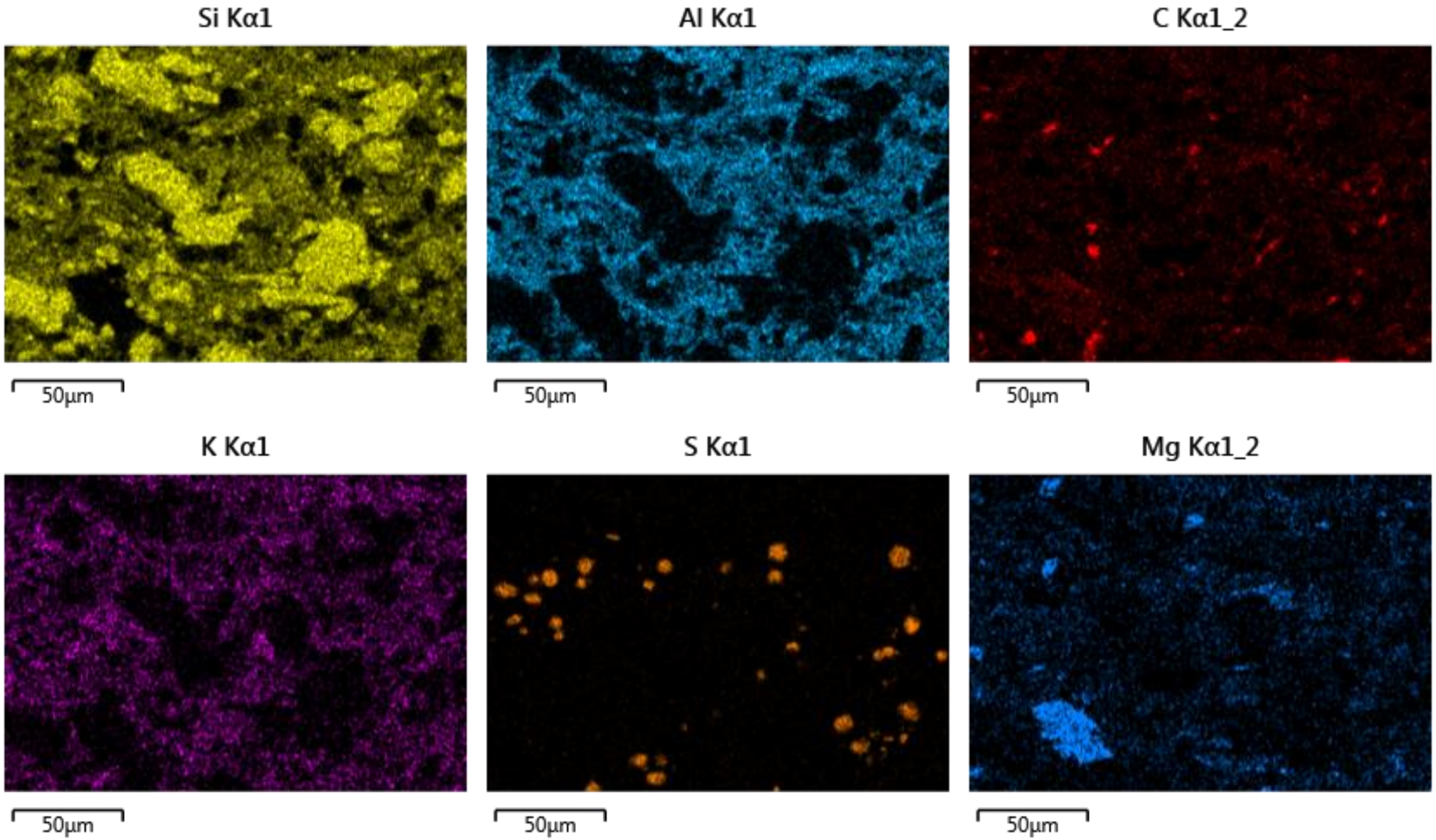

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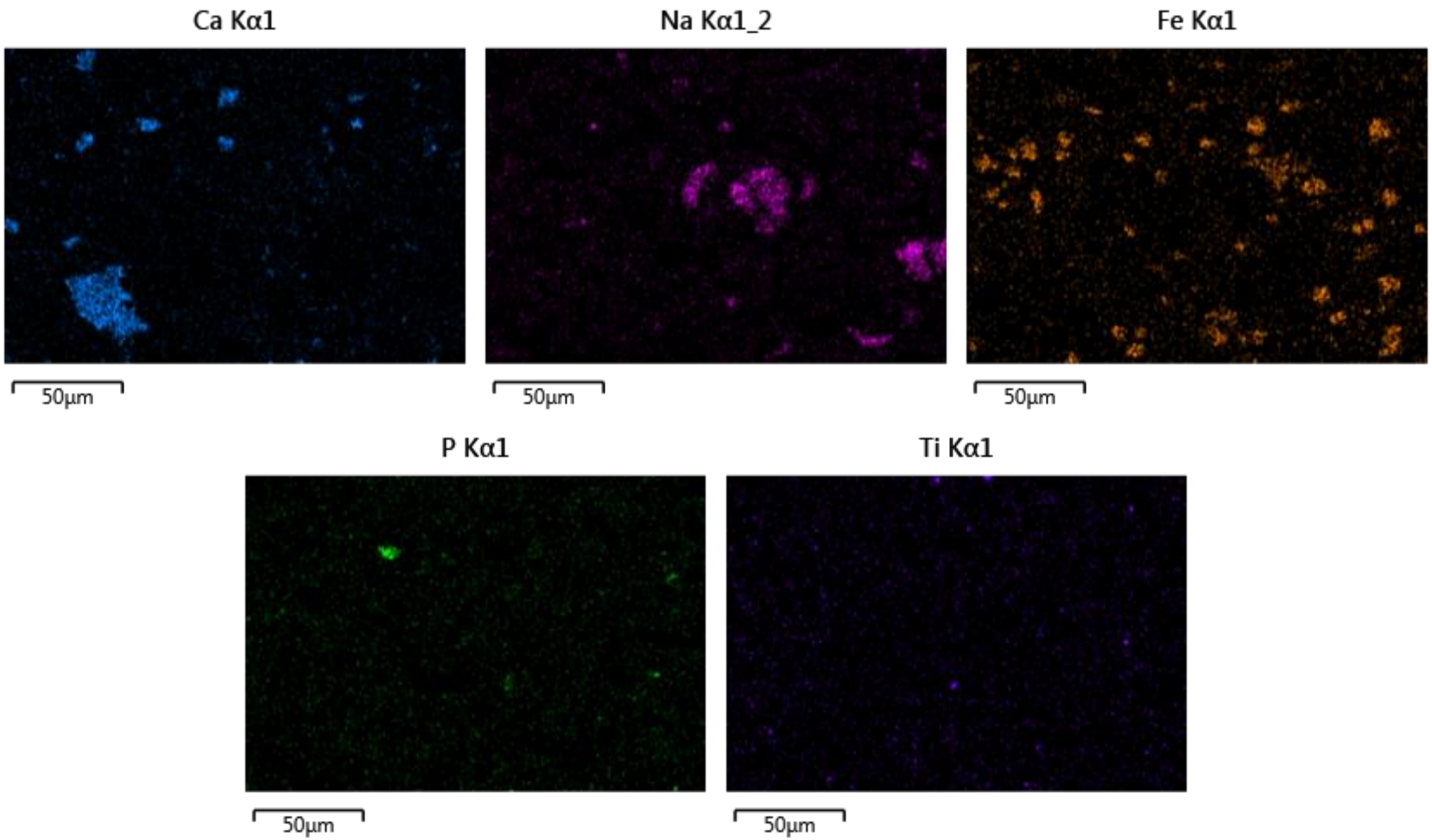

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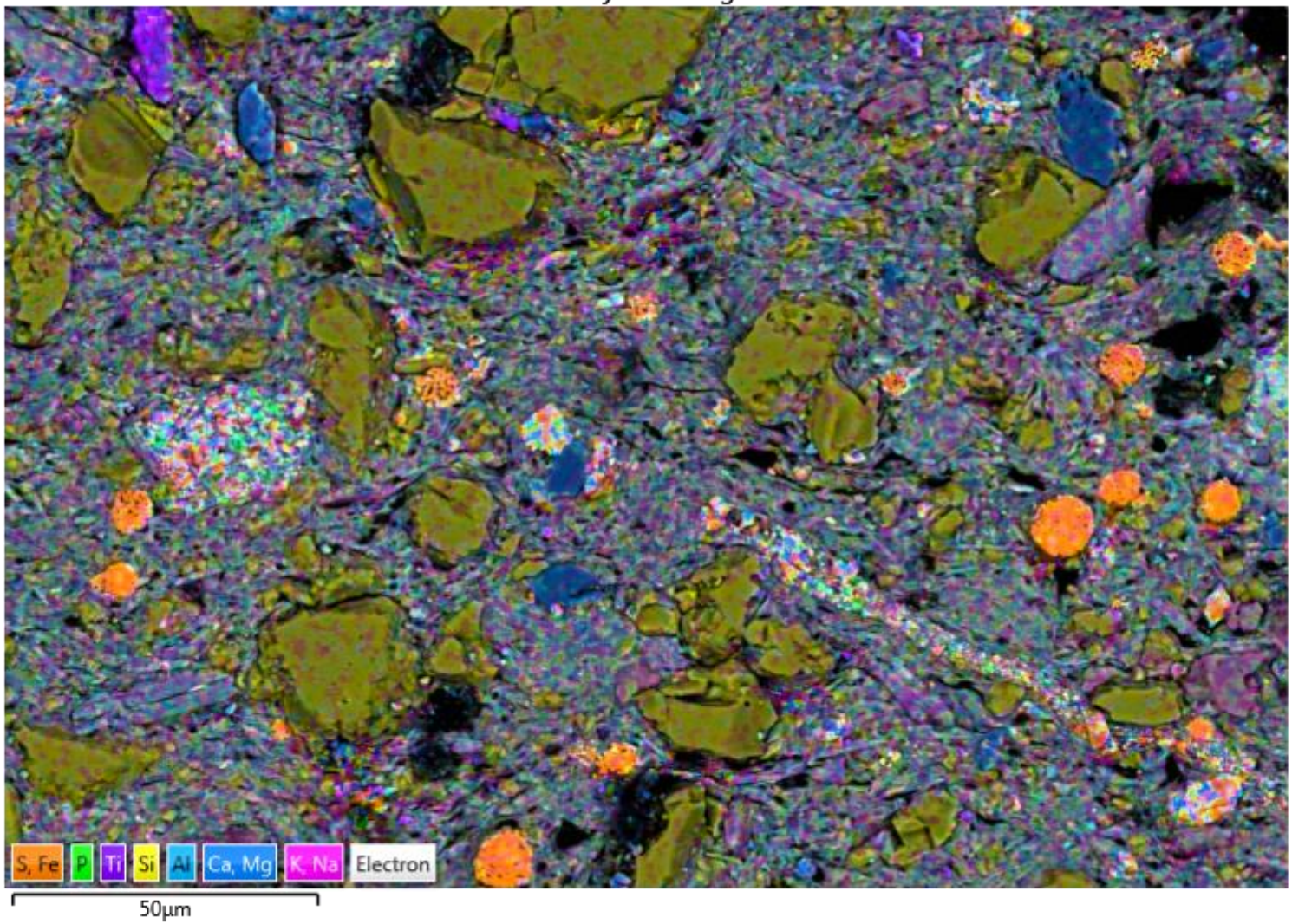
EDS Layered Image 5



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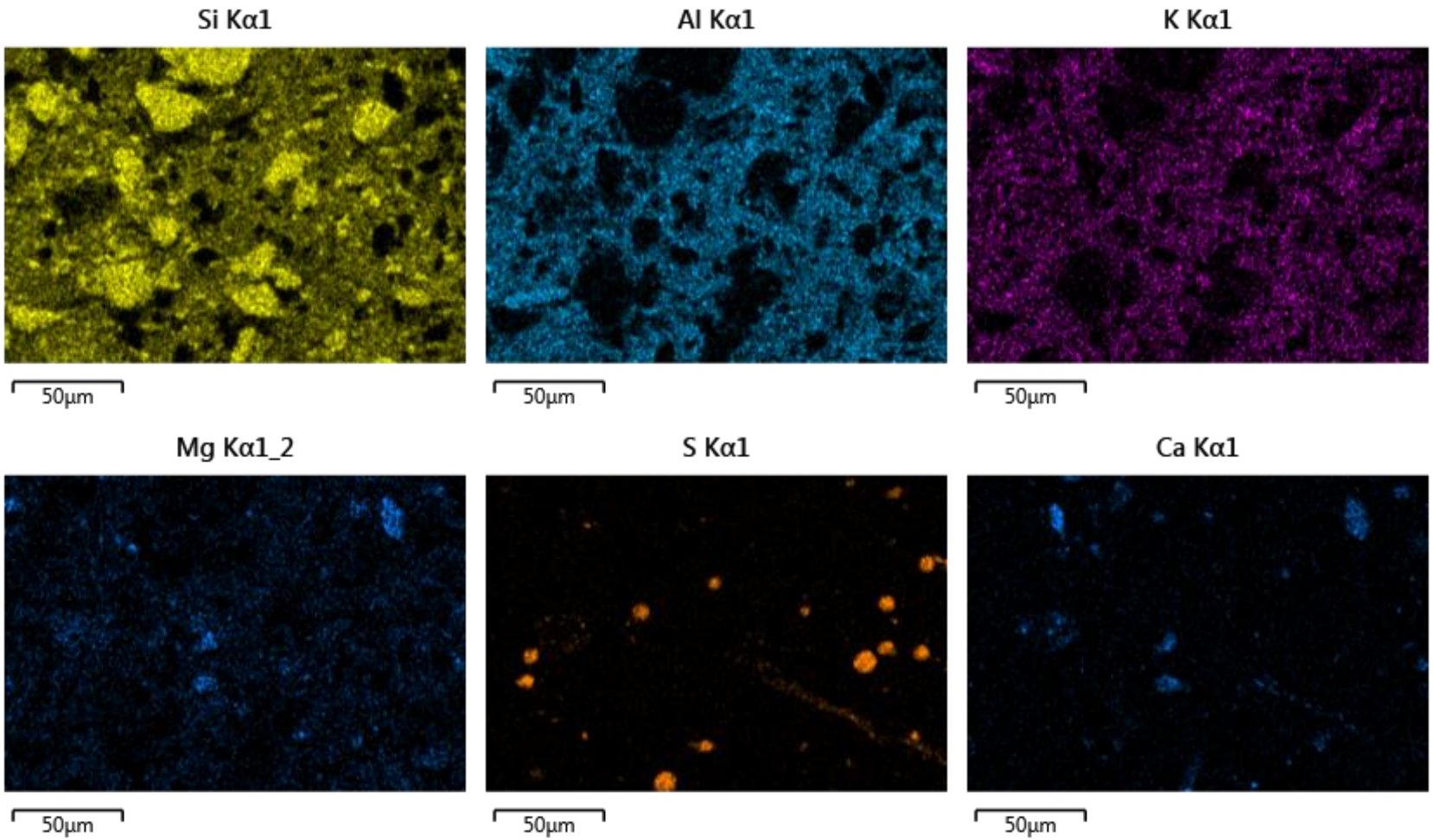

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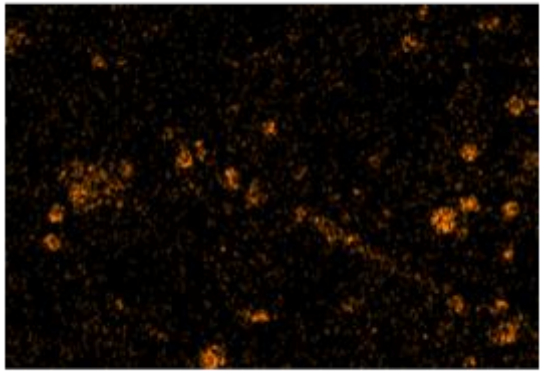
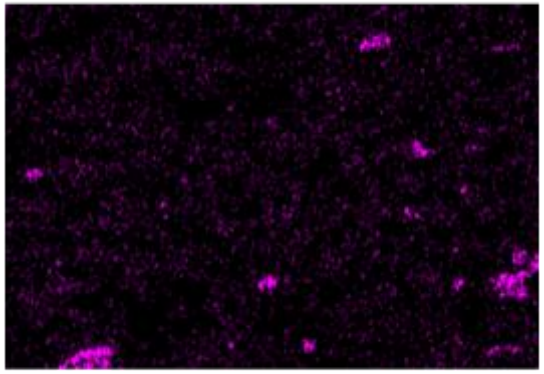
Fe Kα1



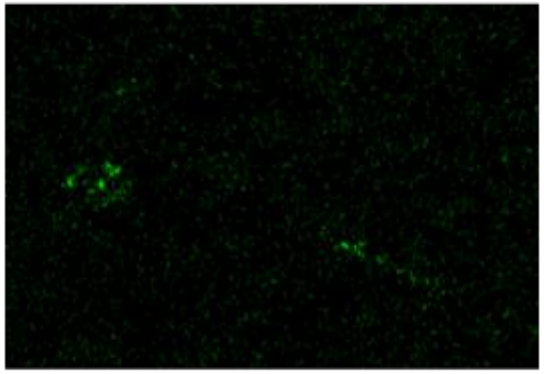
50µm

Na Kα1_2



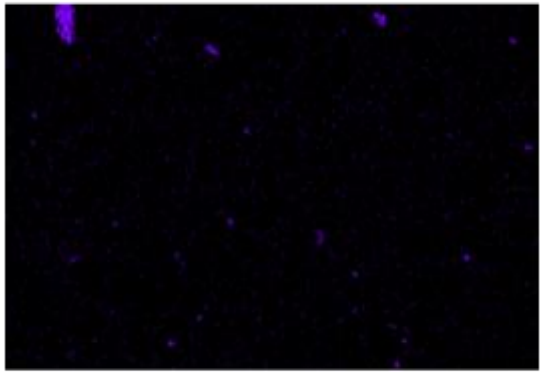
50µm

P Kα1



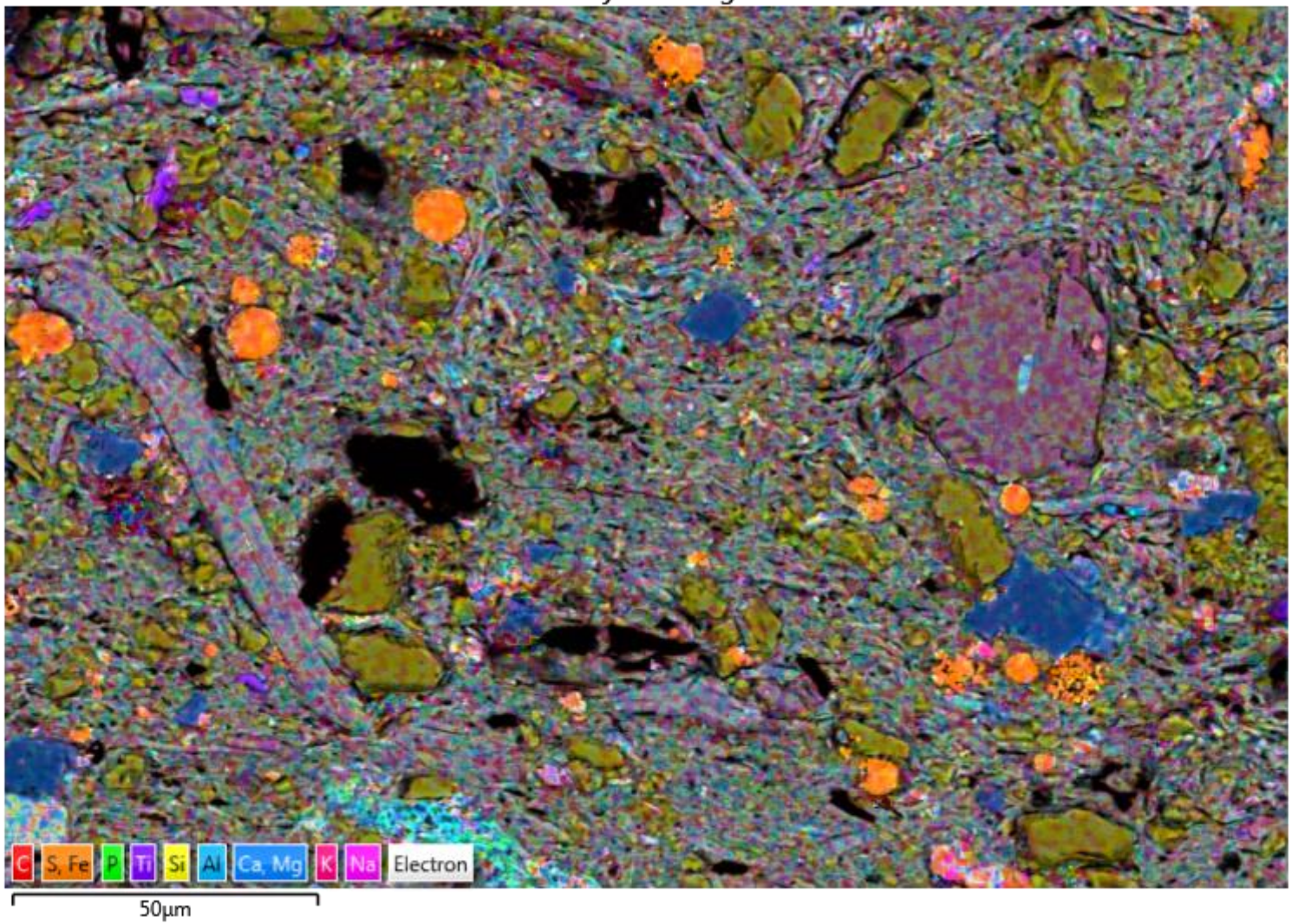
50µm

Ti Kα1



50µm

EDS Layered Image 6



OXFORD INSTRUMENTS
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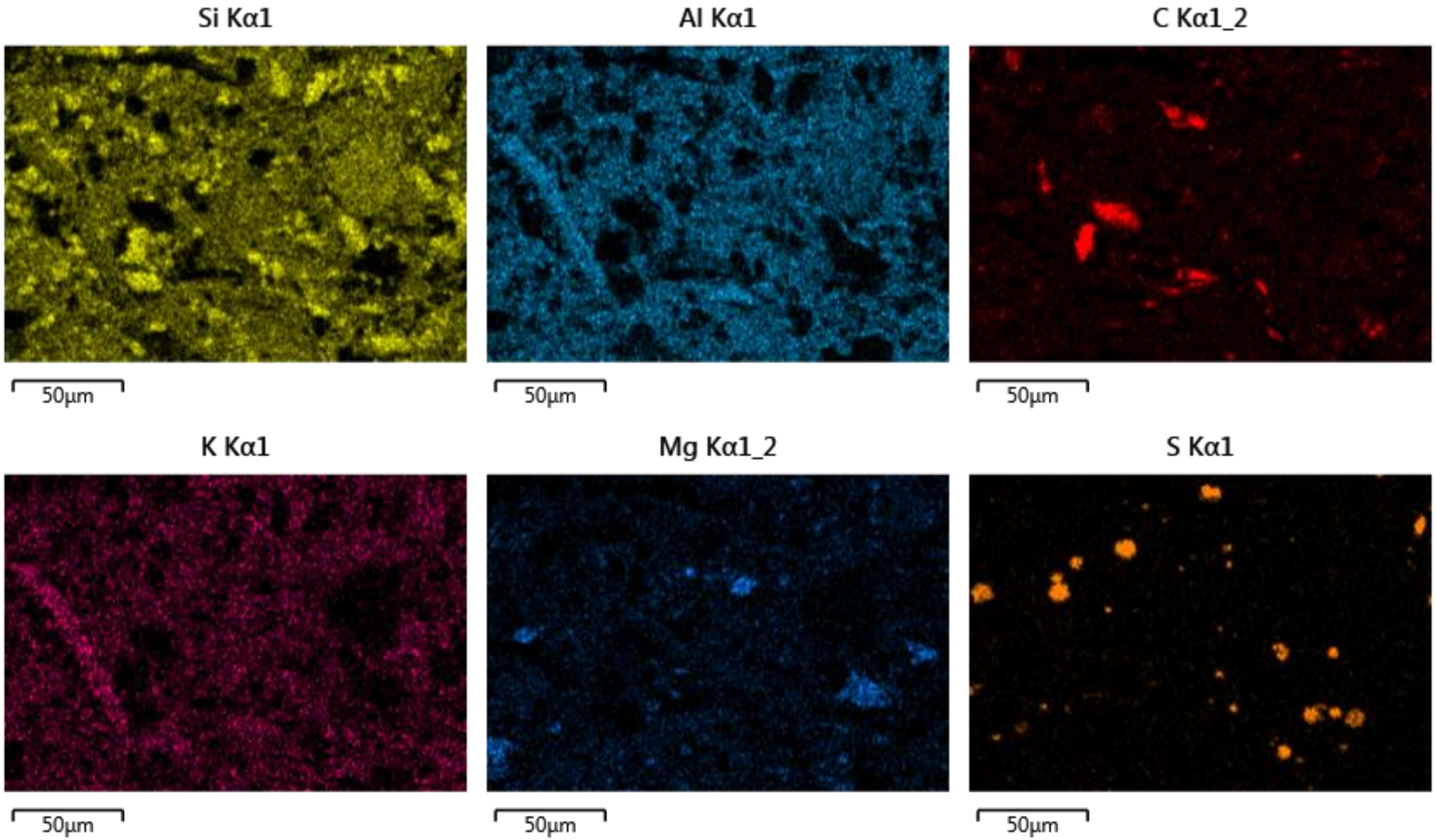

OXFORD INSTRUMENTS
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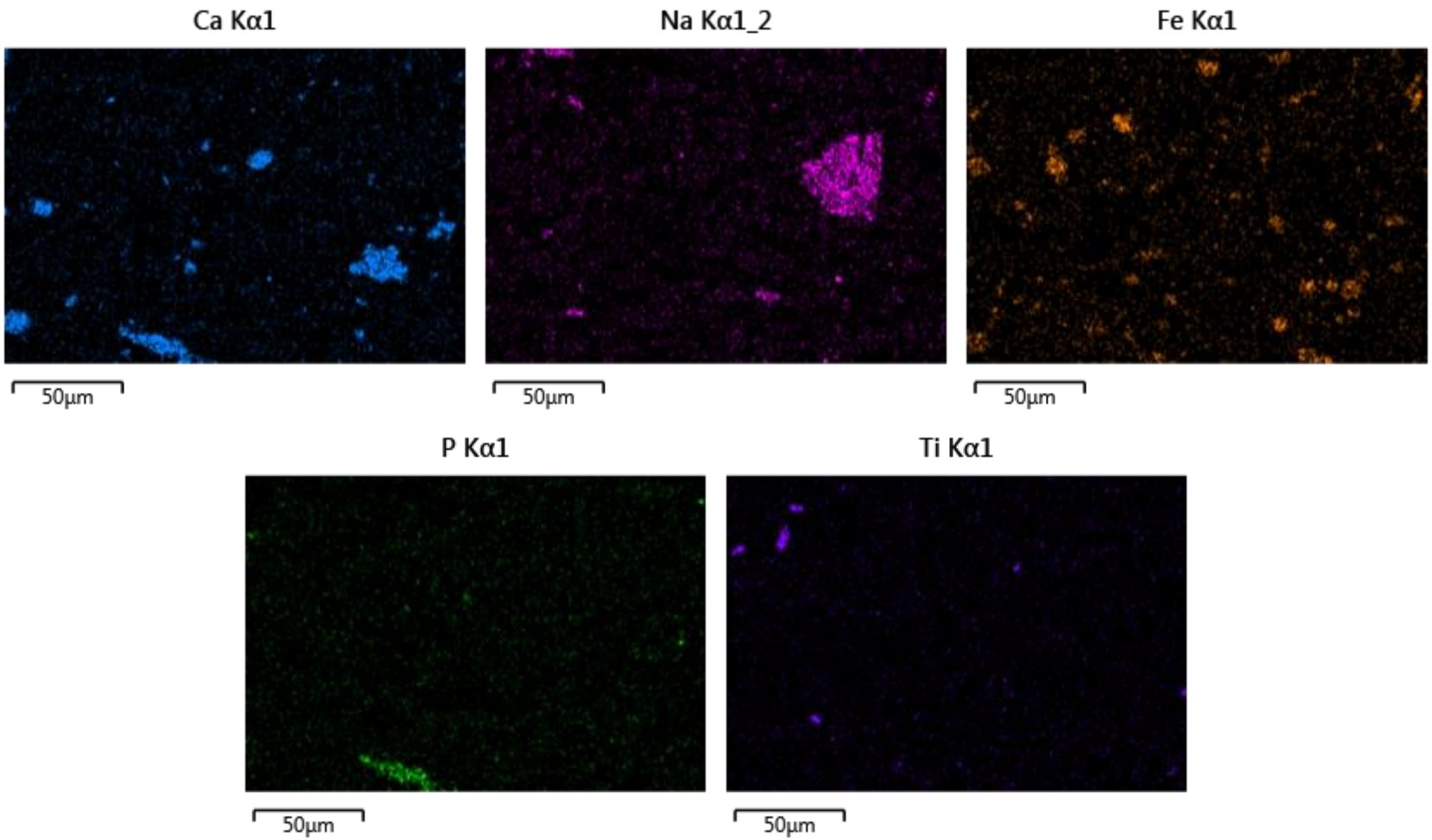

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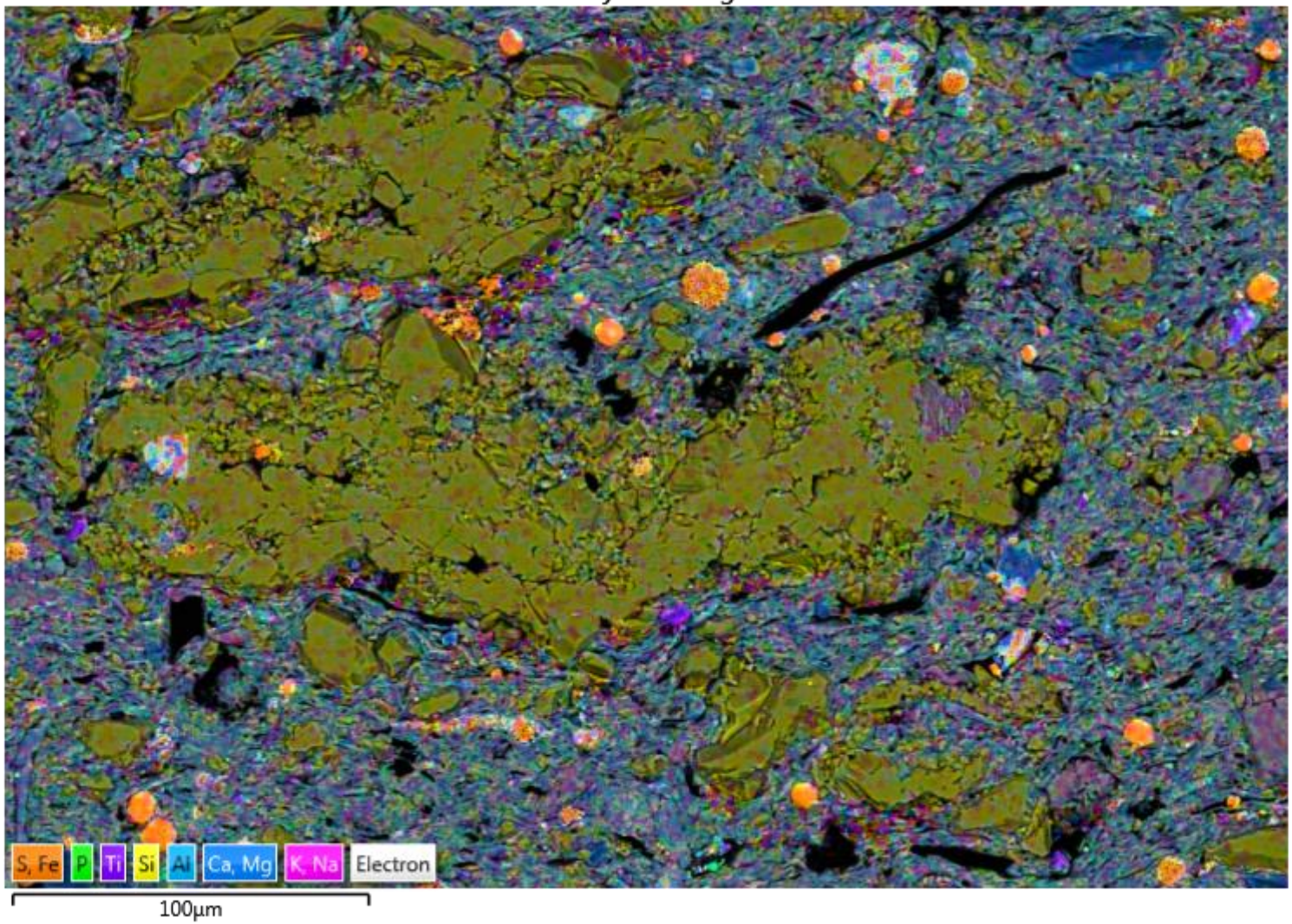
EDS Layered Image 1



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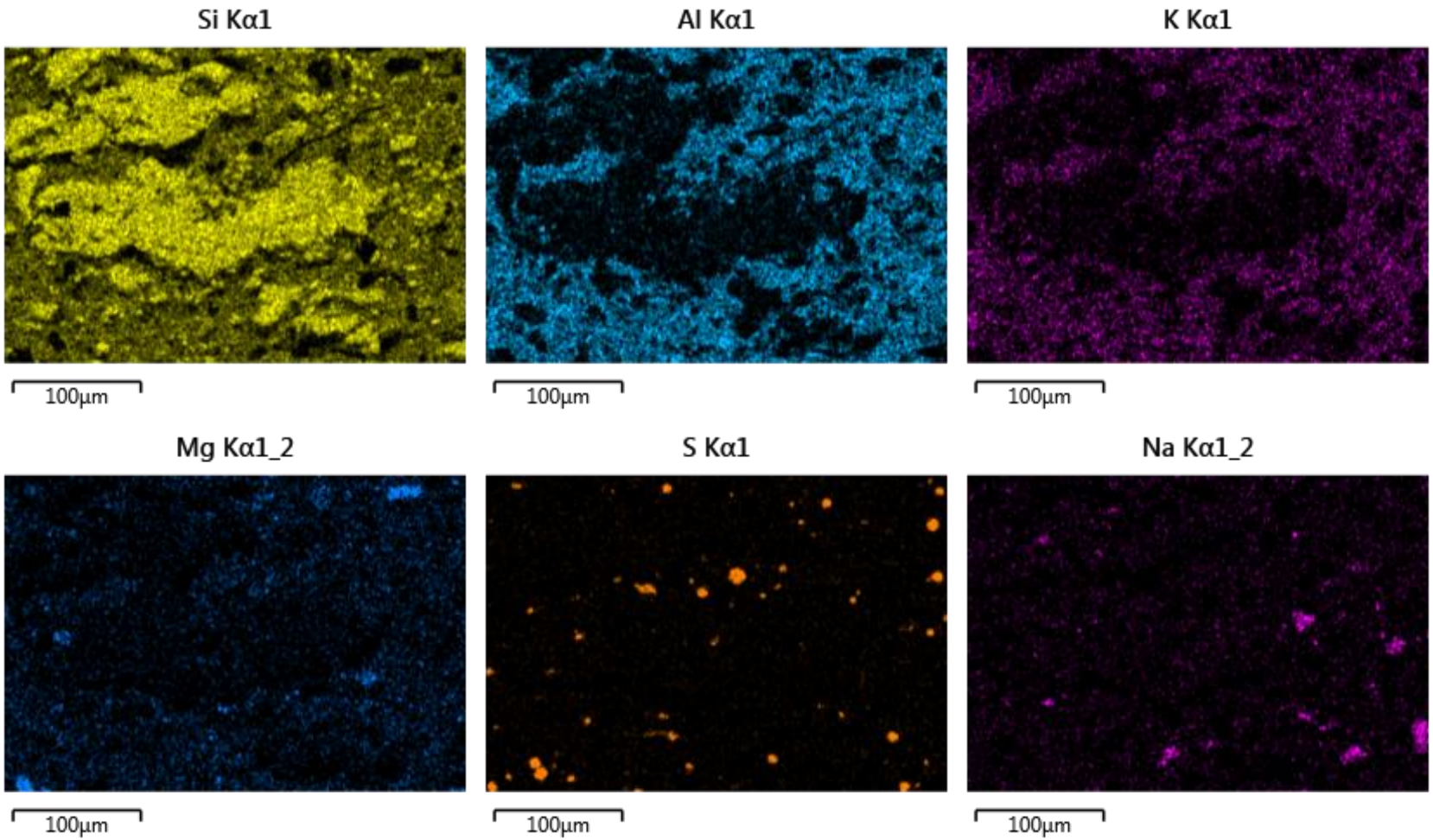
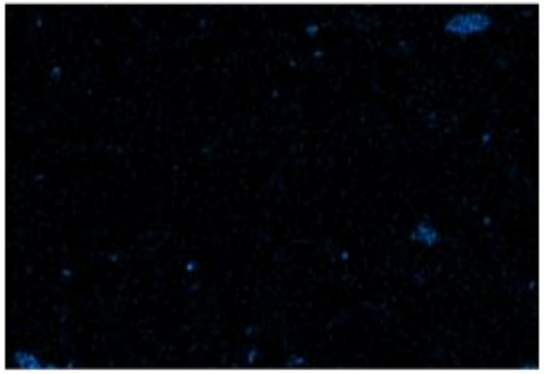
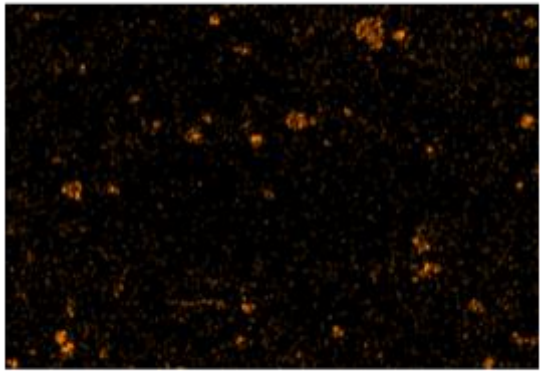

Si Kα1
Al Kα1
K Kα1
100µm
100µm
100µm
Mg Kα1_2
S Kα1
Na Kα1_2
100µm
100µm
100µm

Ca Kα1



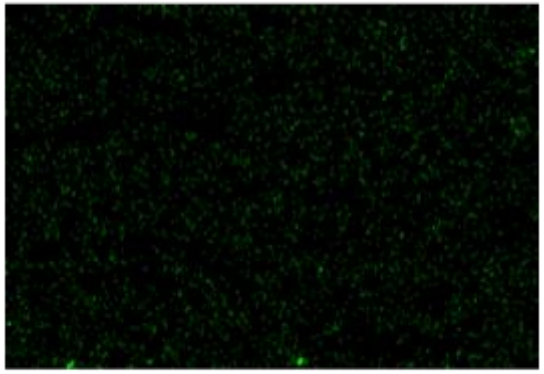
100µm

Fe Kα1



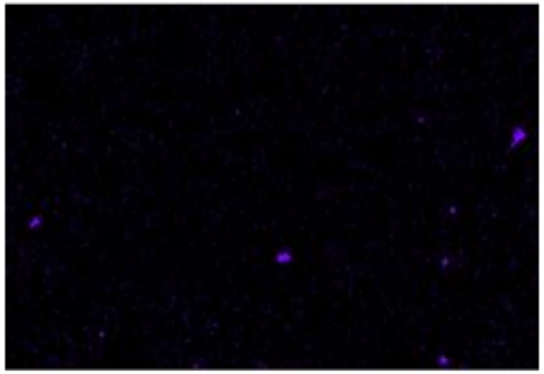
100µm

P Kα1



100µm

Ti Kα1



100µm

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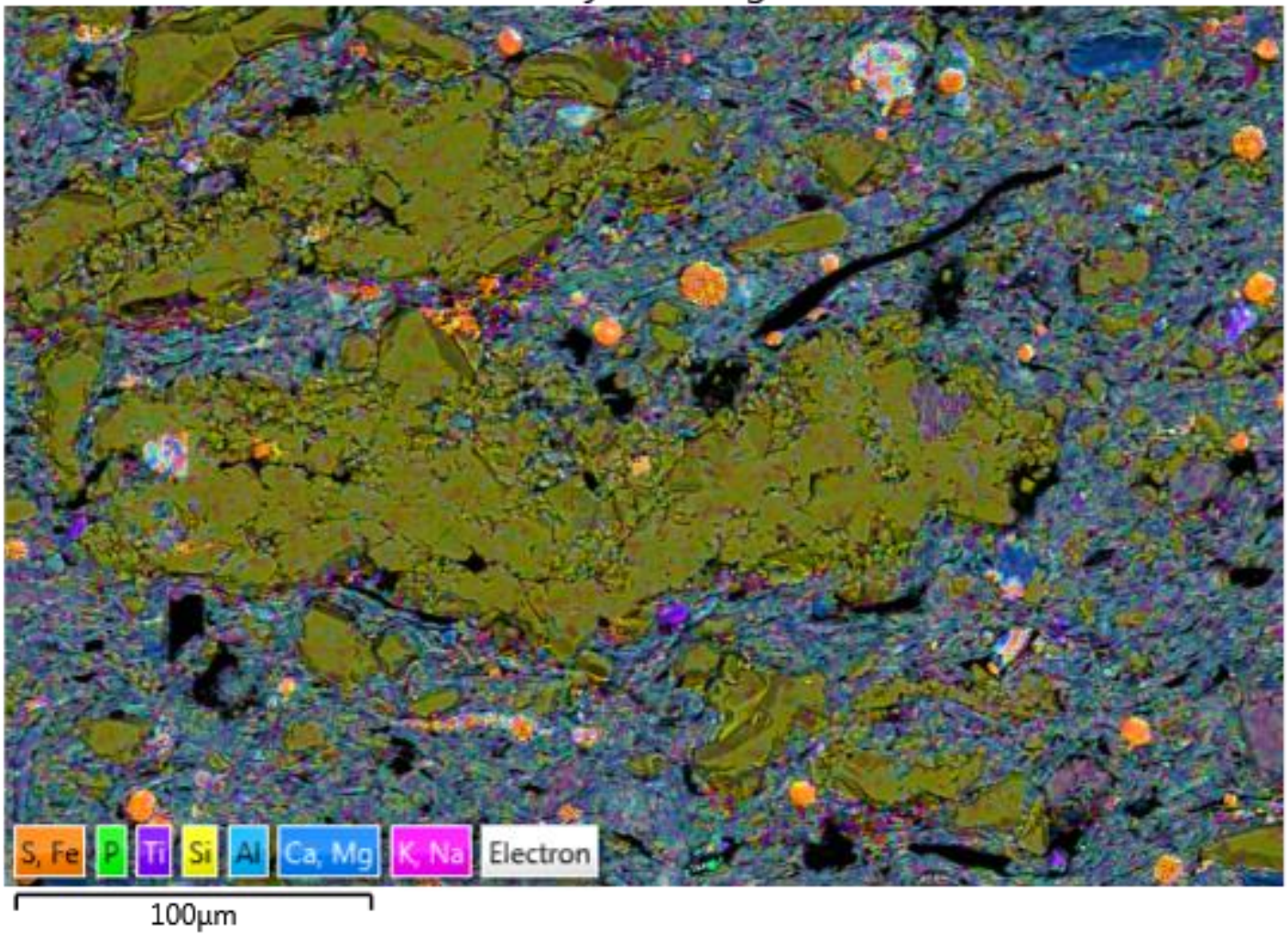
EDS Layered Image 1



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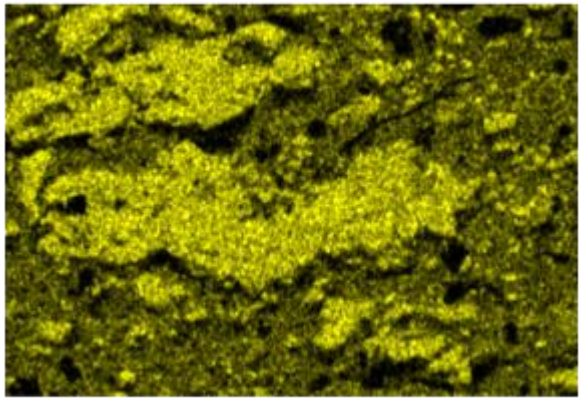
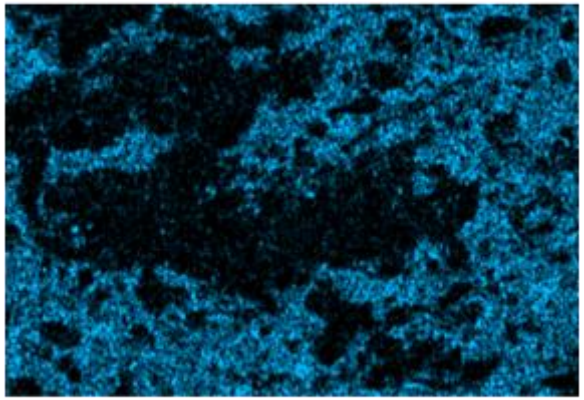
Si Kα1



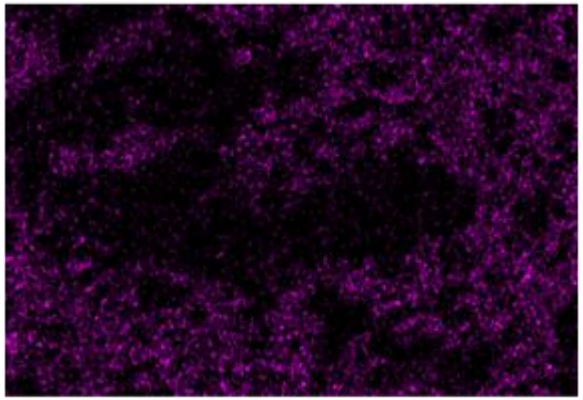
100µm

Al Kα1



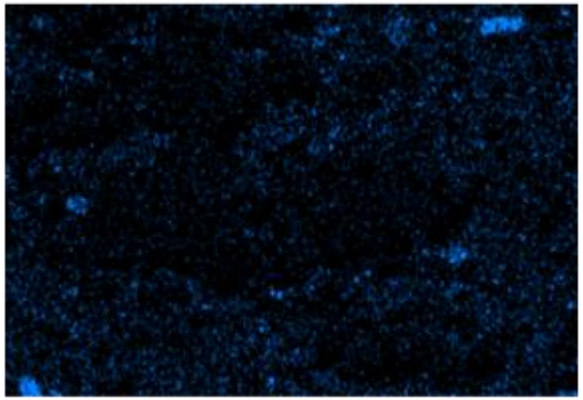
100µm

K Kα1



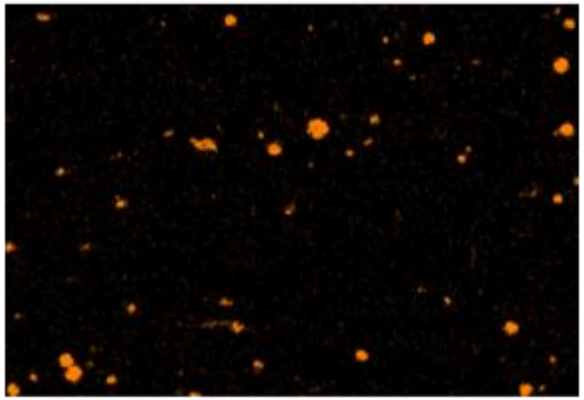
100µm

Mg Kα1_2



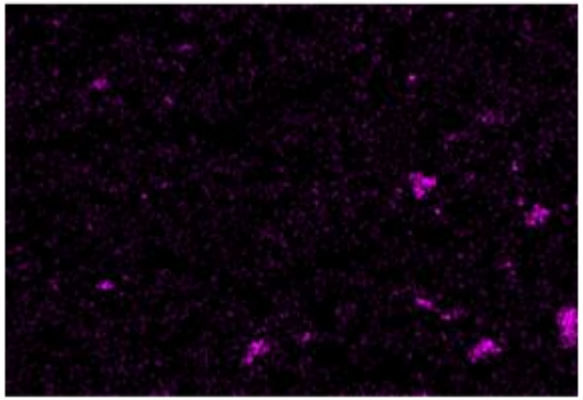
100µm

S Kα1



100µm

Na Kα1_2



100µm

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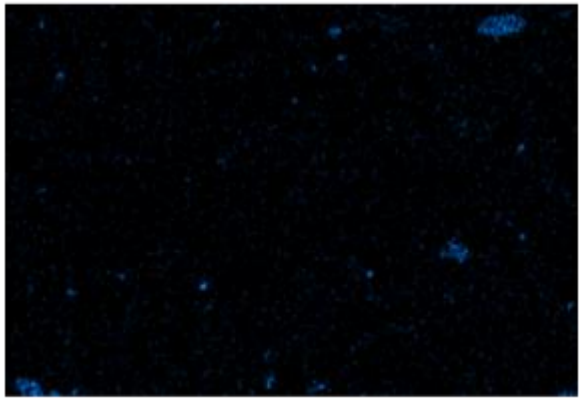
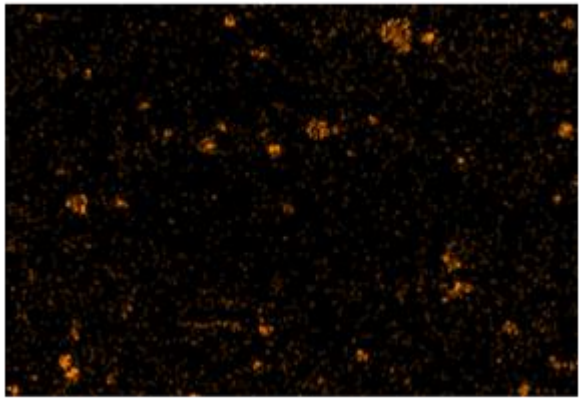
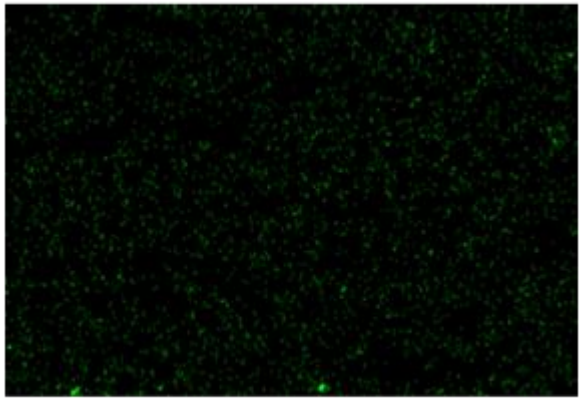
Ca Kα1



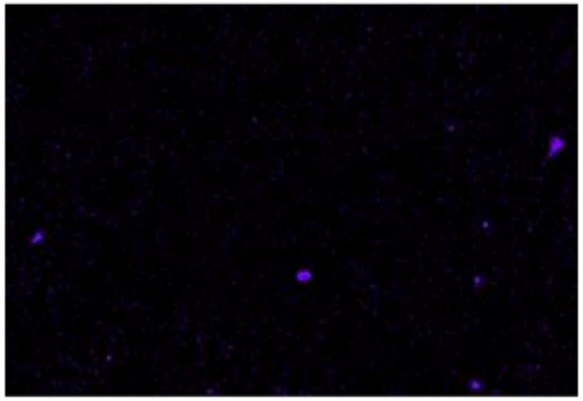
Fe Kα1



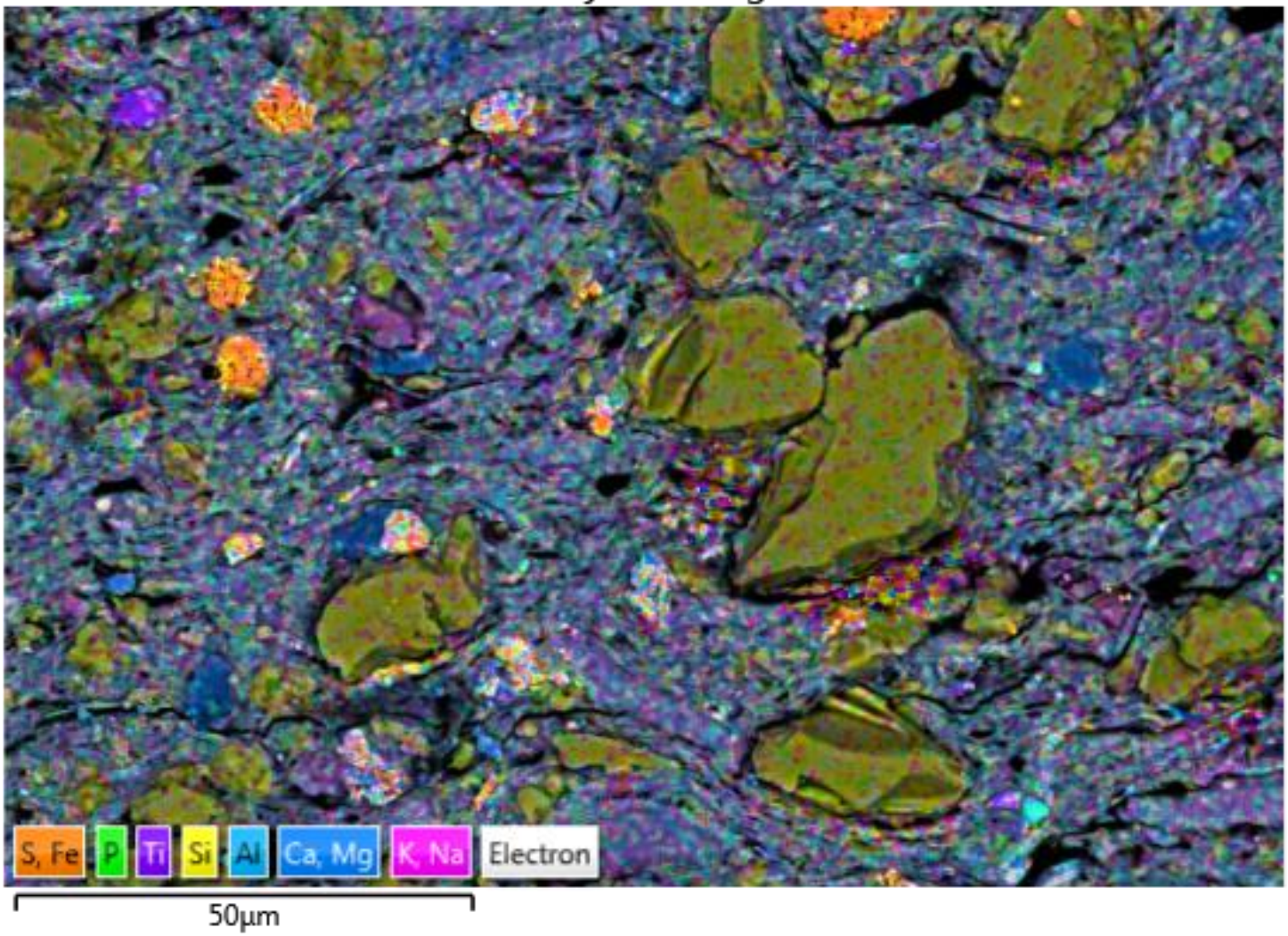
P Kα1



Ti Kα1



EDS Layered Image 2



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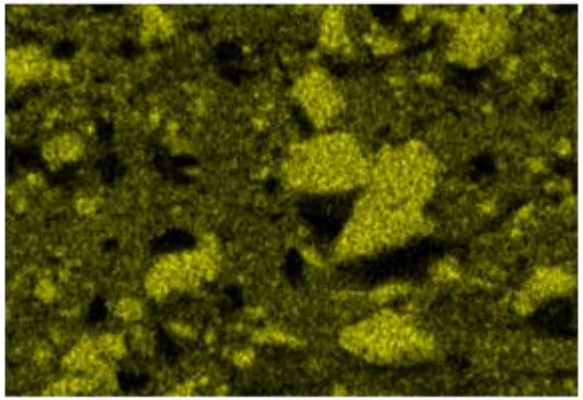
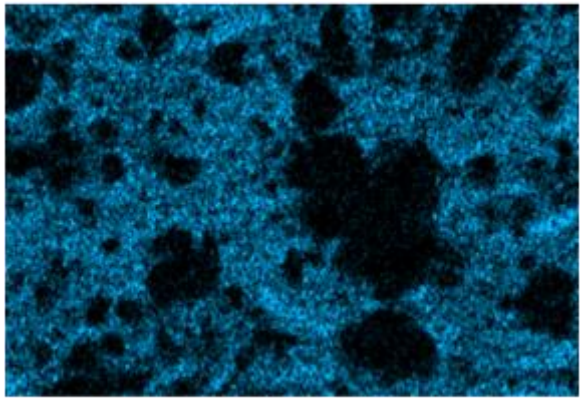
Si Kα1



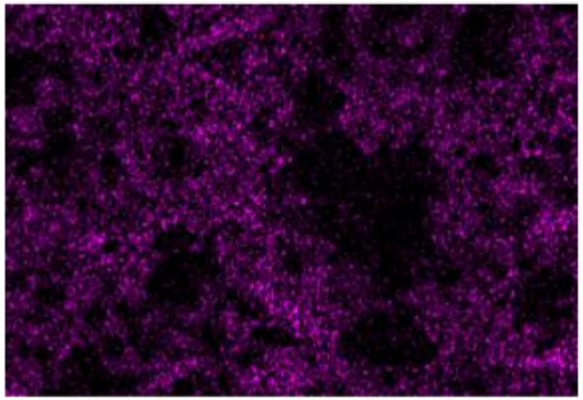
50µm

Al Kα1



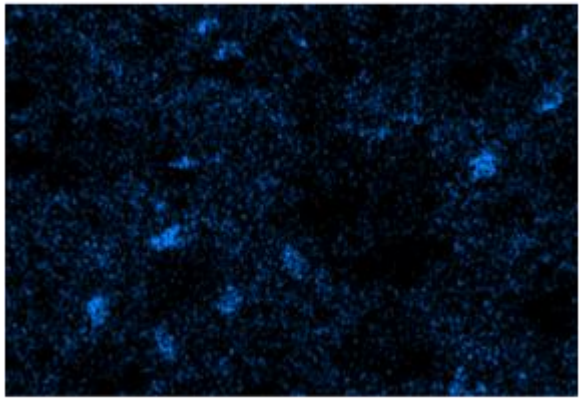
50µm

K Kα1



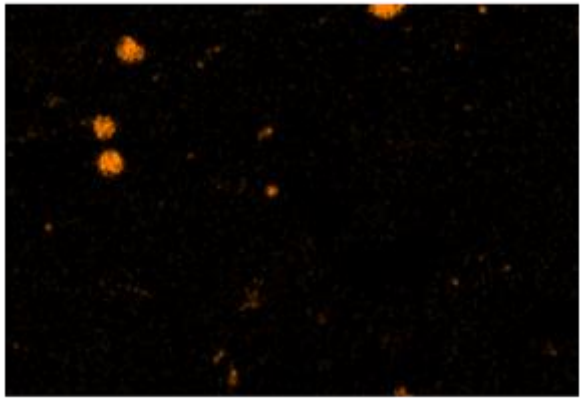
50µm

Mg Kα1_2



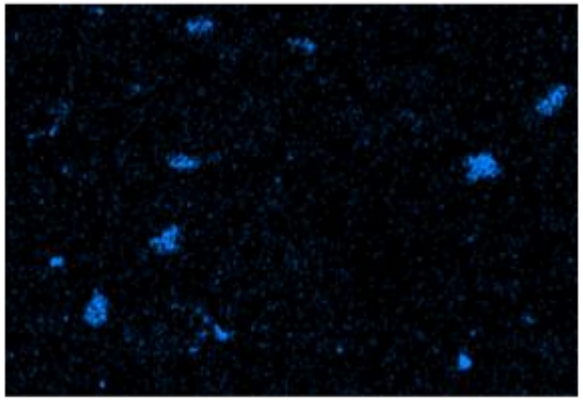
50µm

S Kα1



50µm

Ca Kα1



50µm

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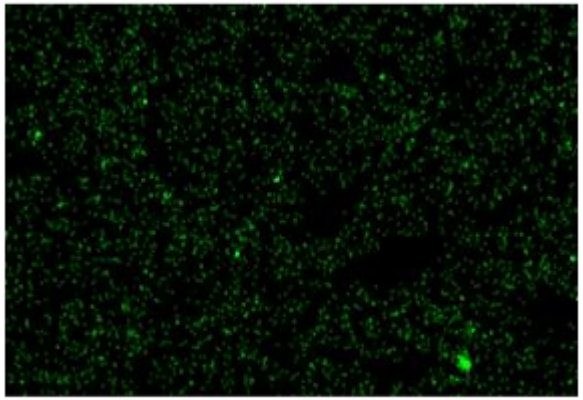
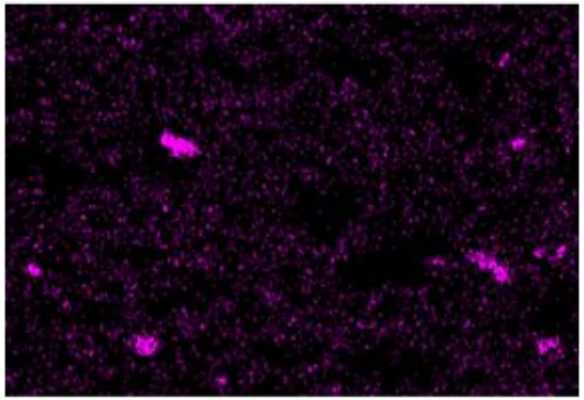
P Kα1



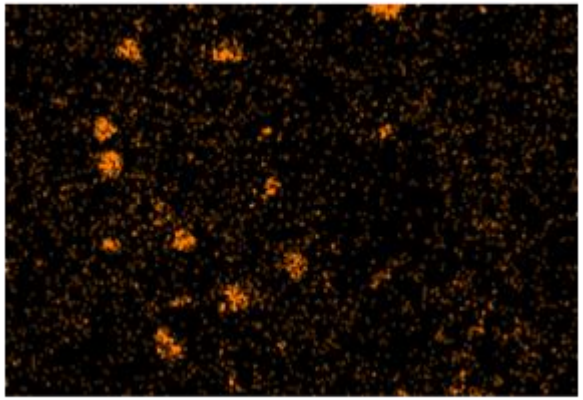
50µm

Na Kα1_2



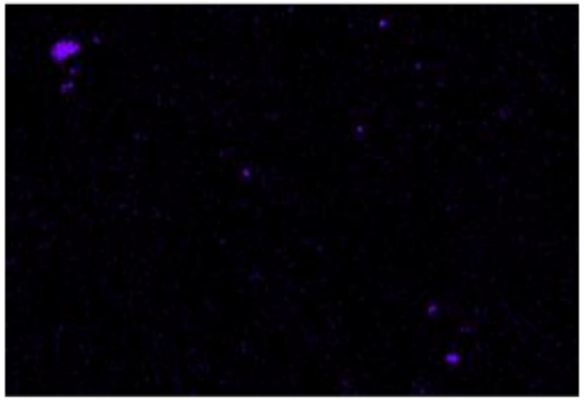
50µm

Fe Kα1



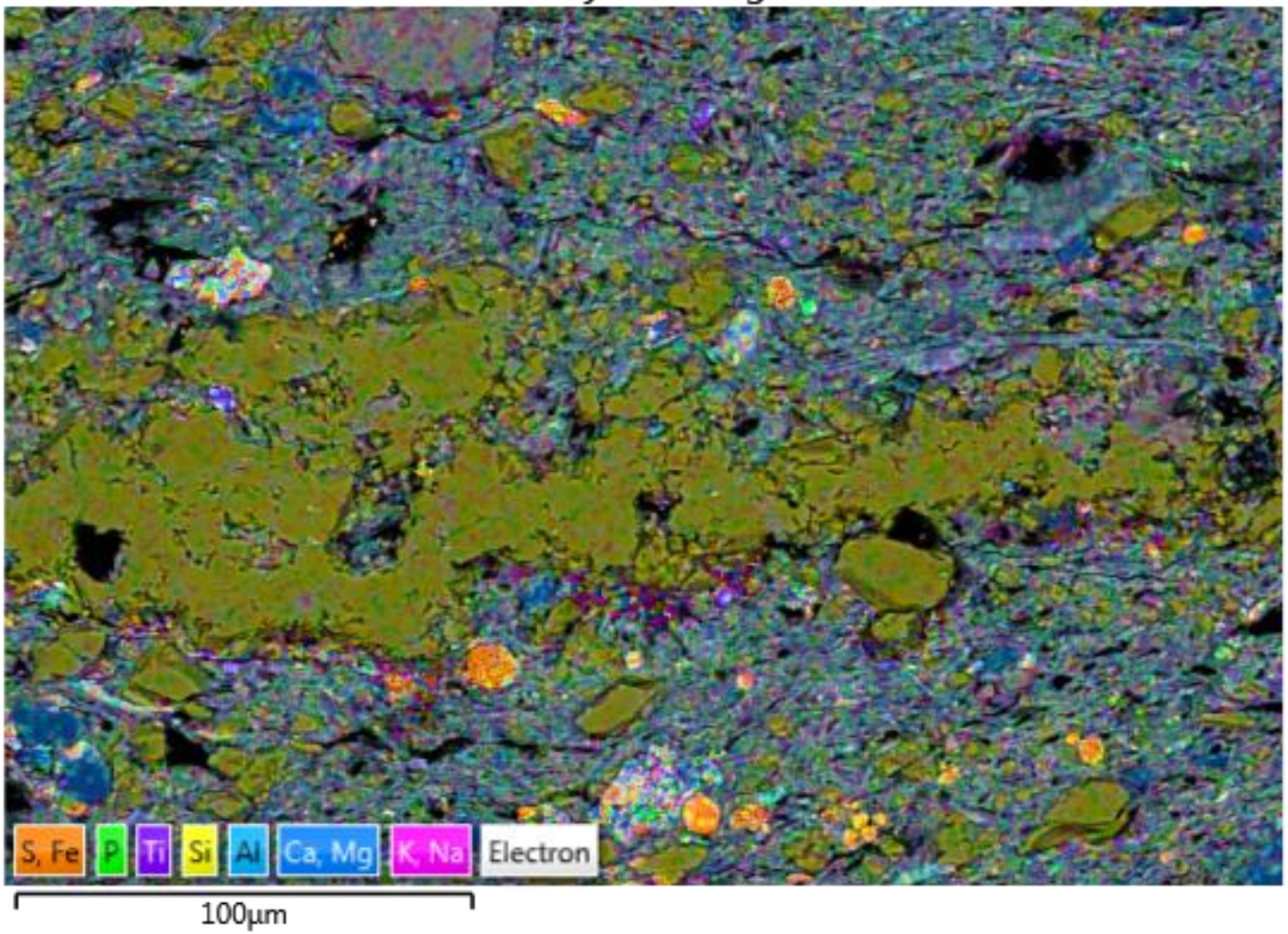
50µm

Ti Kα1



50µm

EDS Layered Image 3



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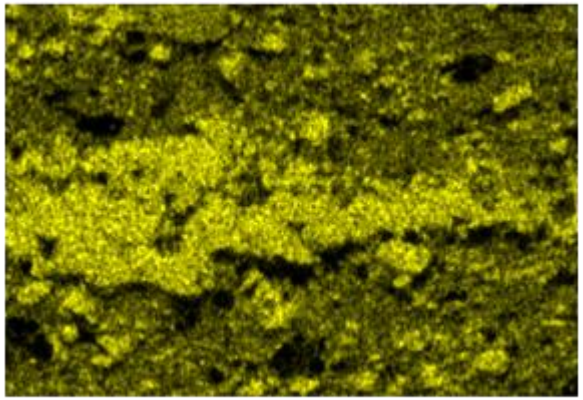
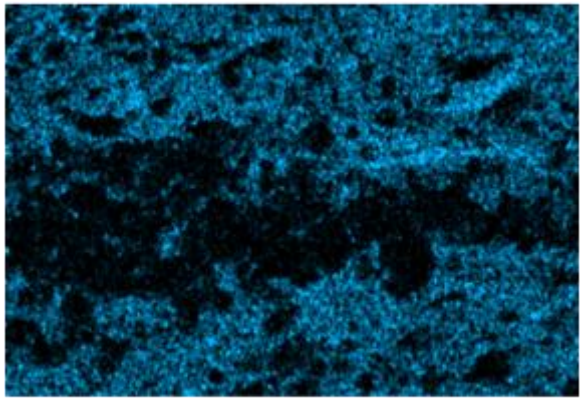
Si Kα1



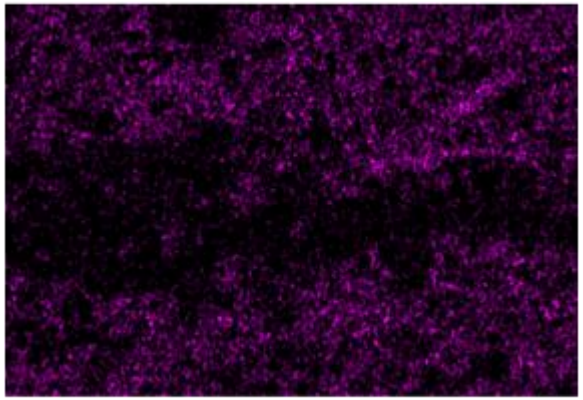
100µm

Al Kα1



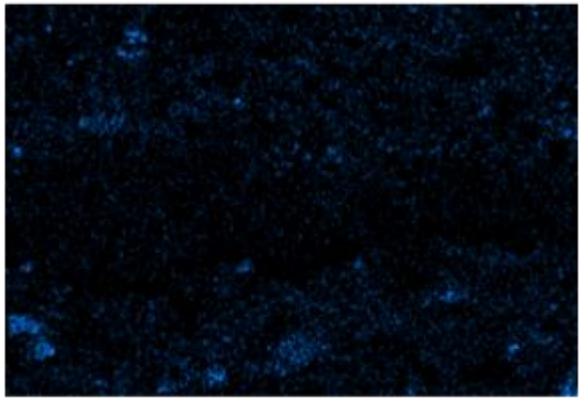
100µm

K Kα1



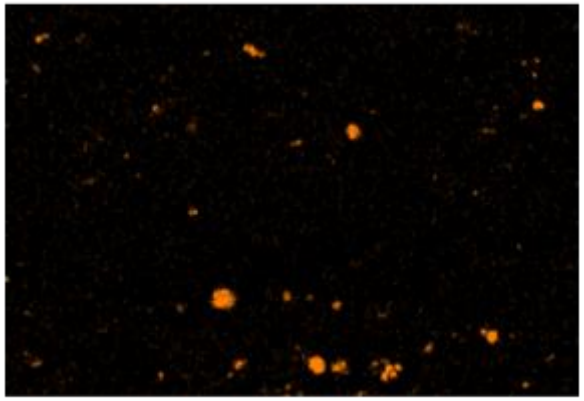
100µm

Mg Kα1_2



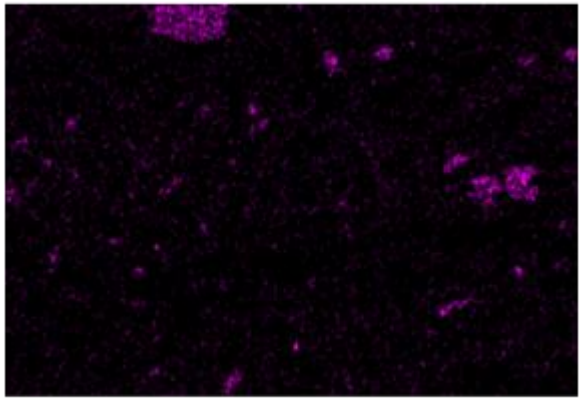
100µm

S Kα1



100µm

Na Kα1_2



100µm

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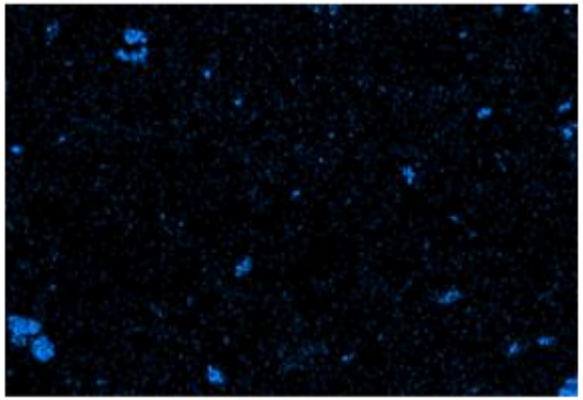
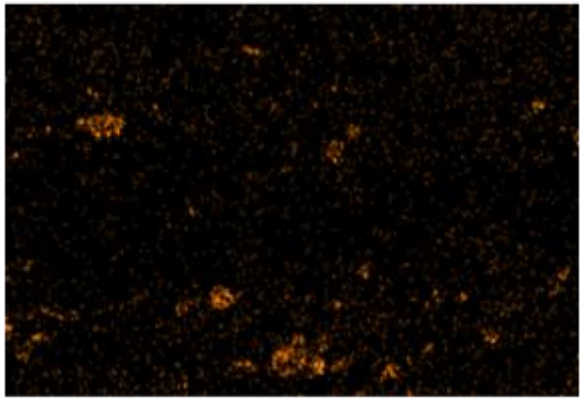
Ca Kα1



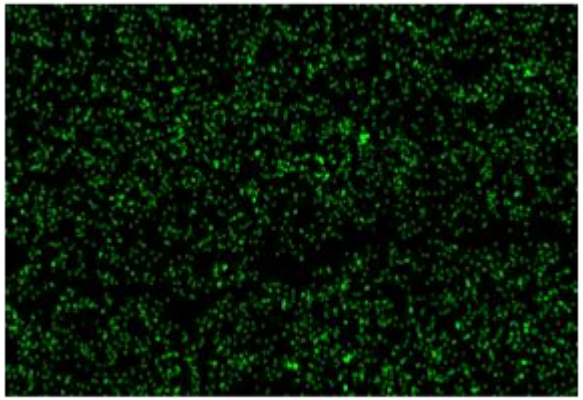
100µm

Fe Kα1



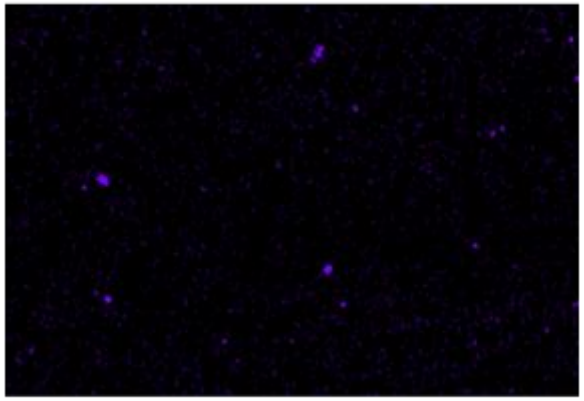
100µm

P Kα1



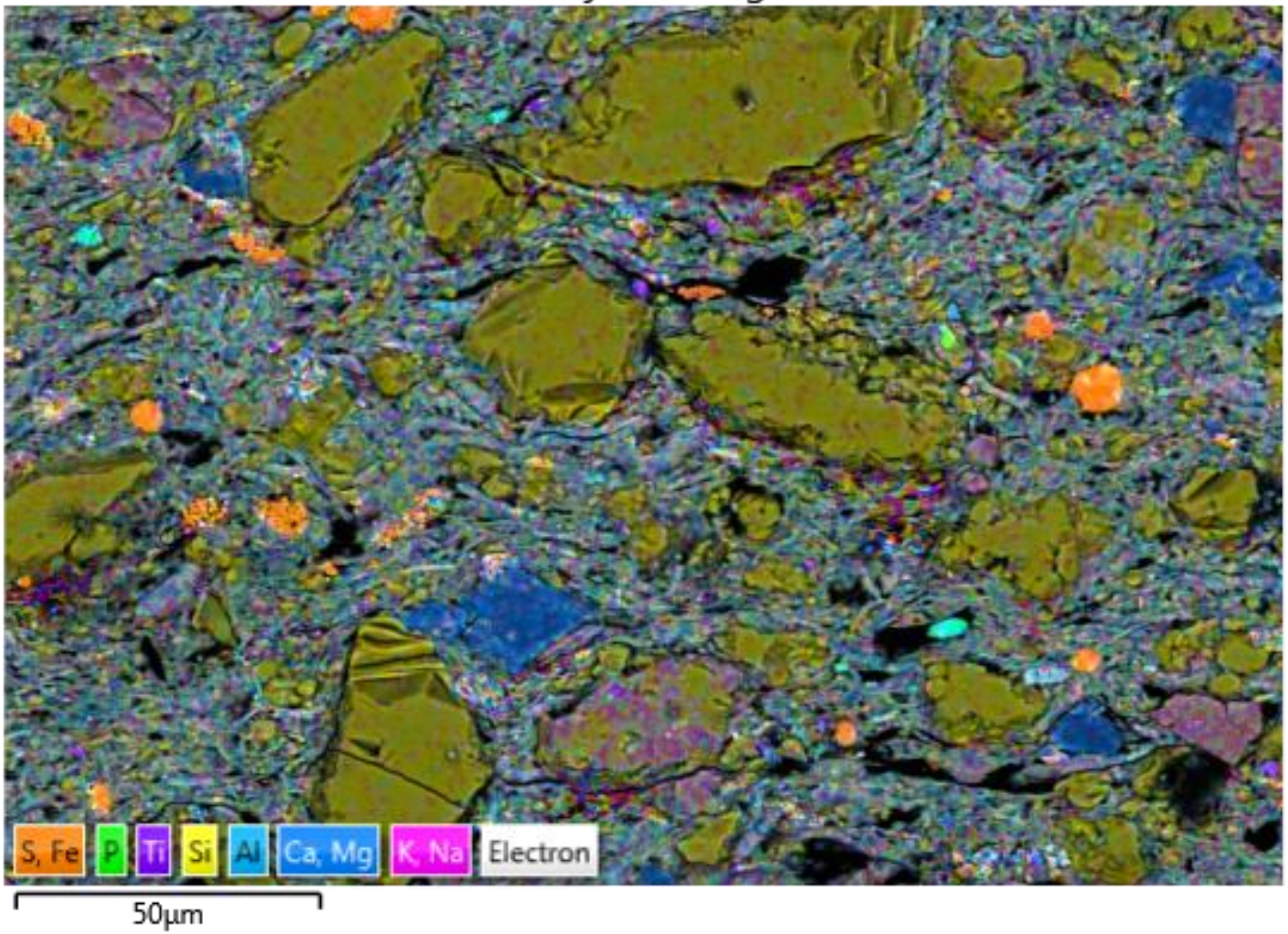
100µm

Ti Kα1



100µm

EDS Layered Image 4



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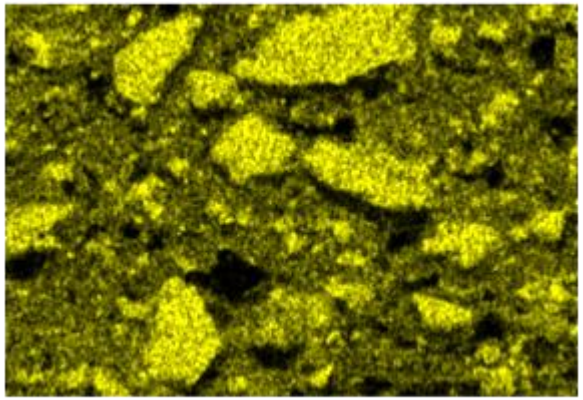
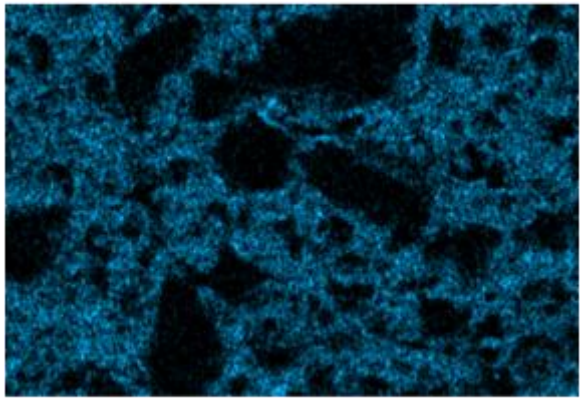
Si Kα1



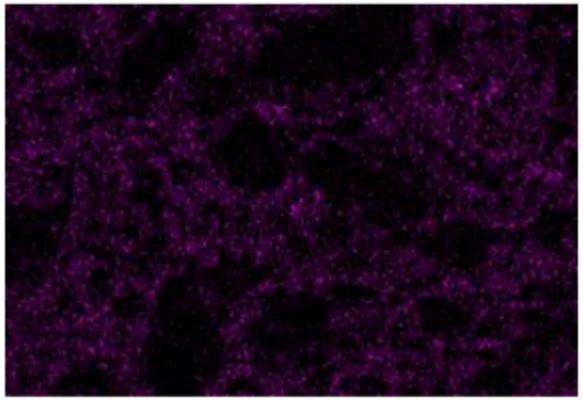
50µm

Al Kα1



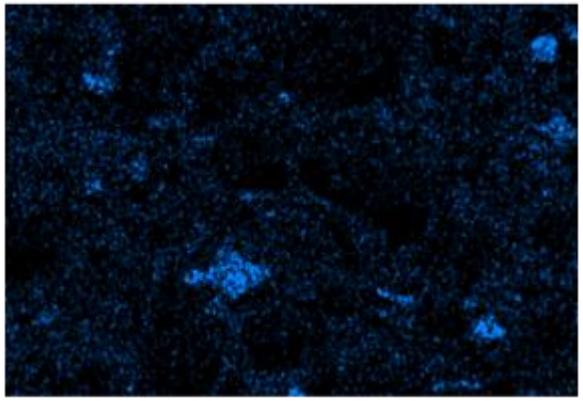
50µm

K Kα1



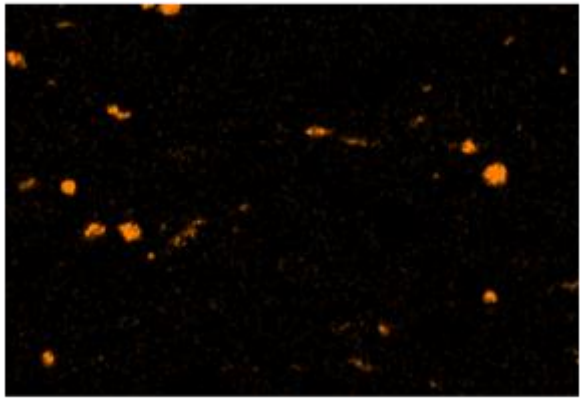
50µm

Mg Kα1_2



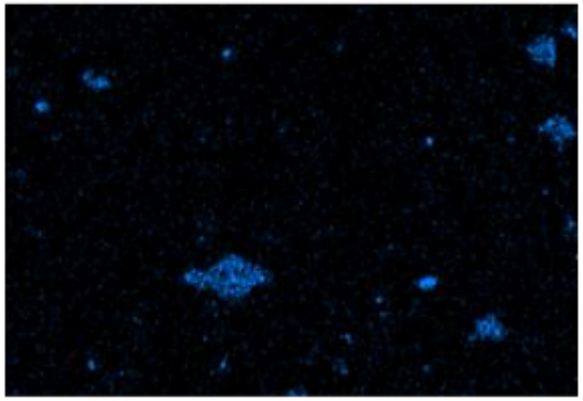
50µm

S Kα1



50µm

Ca Kα1



50µm

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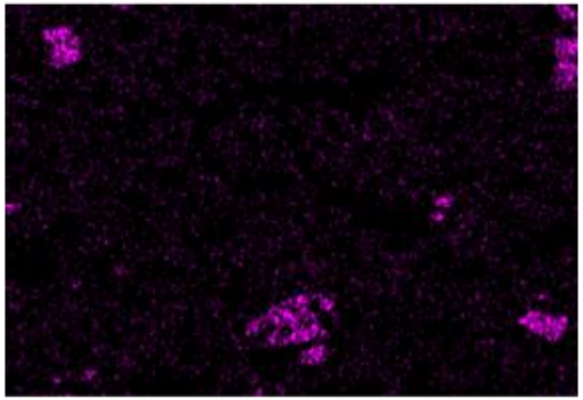
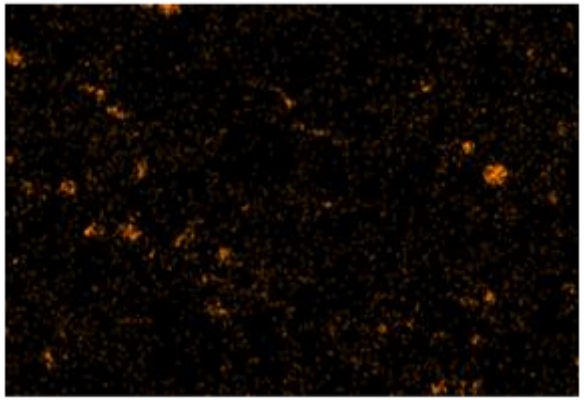
Na Kα1_2



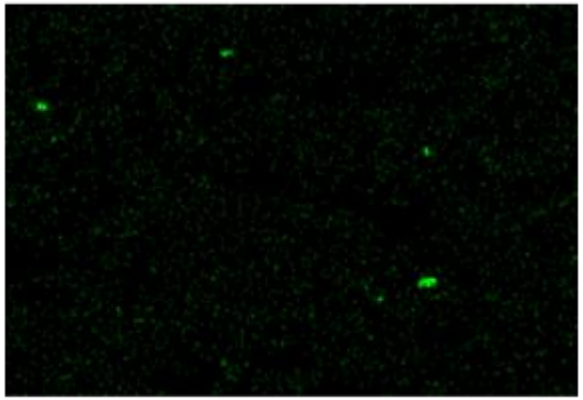
50µm

Fe Kα1



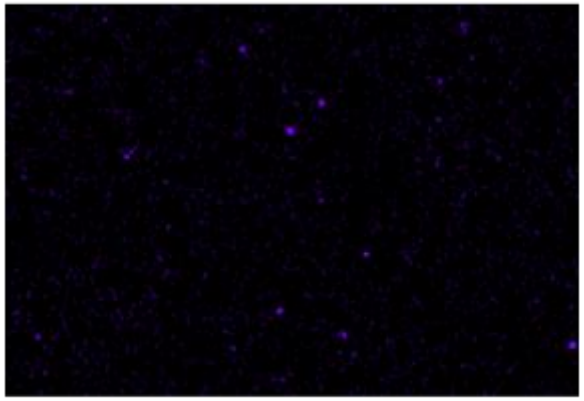
50µm

P Kα1



50µm

Ti Kα1



50µm

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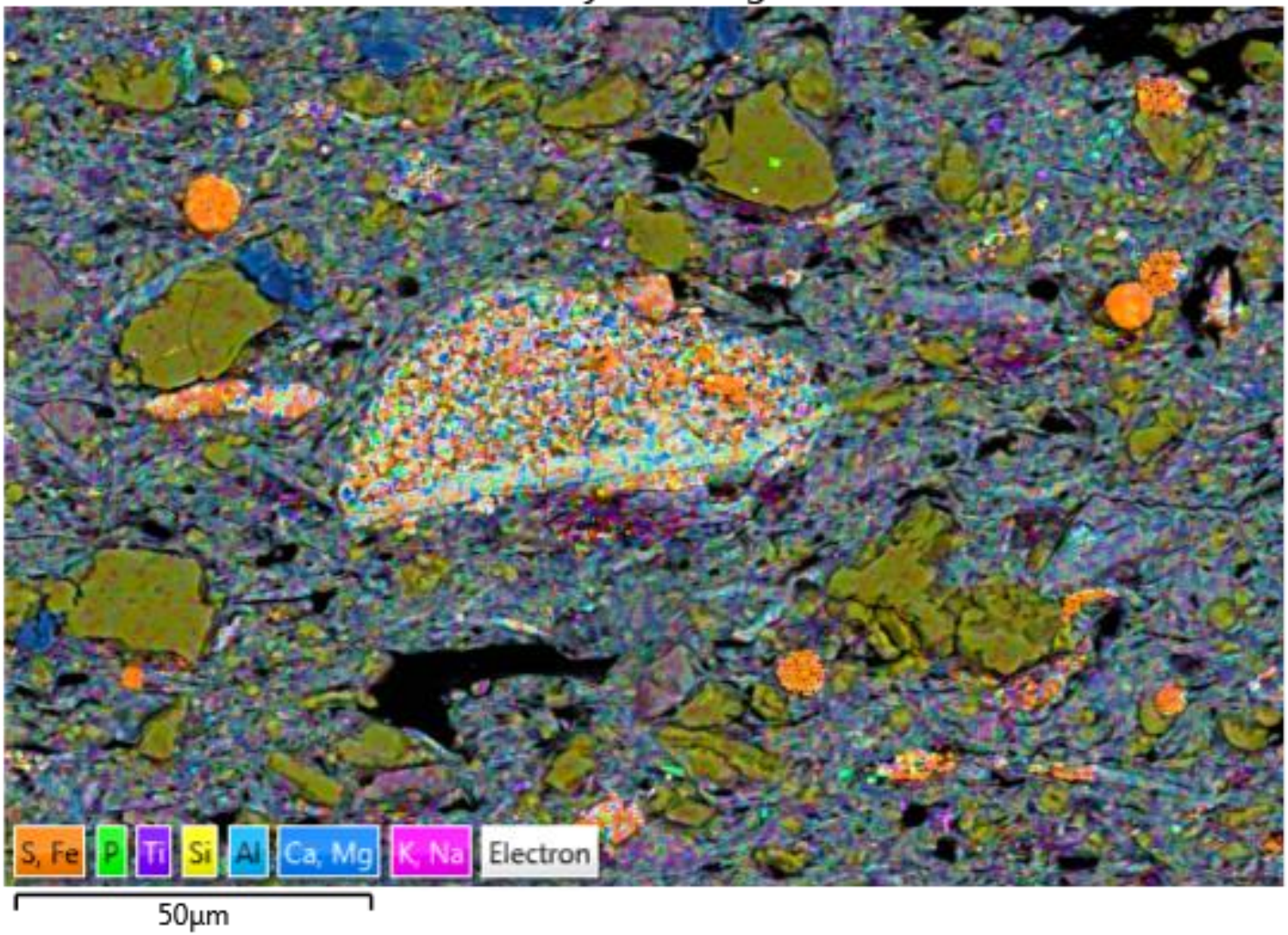
EDS Layered Image 5



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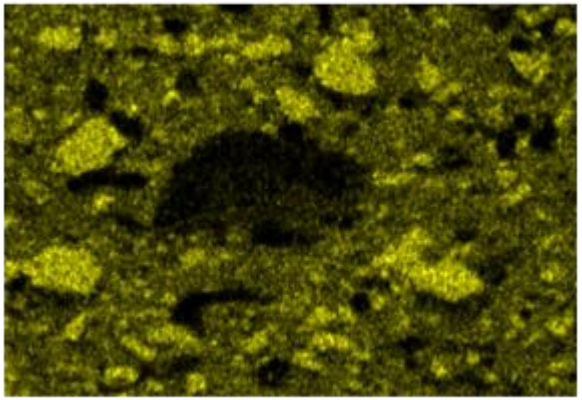
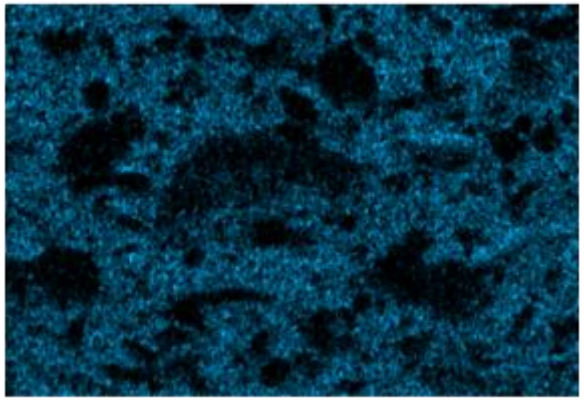
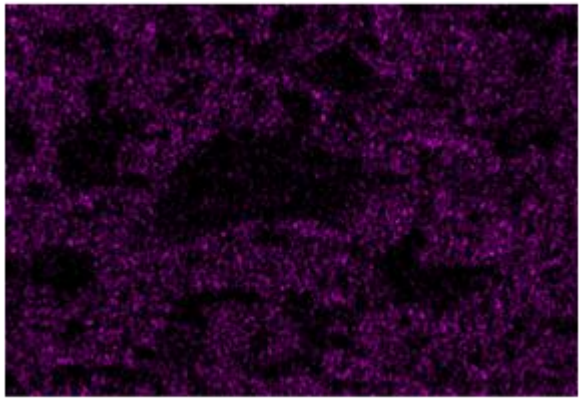
Si Kα1



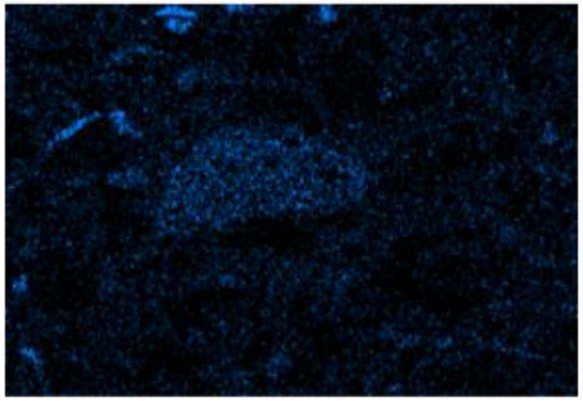
Al Kα1



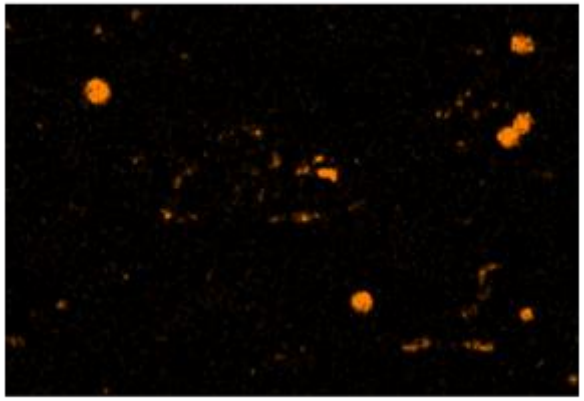
K Kα1



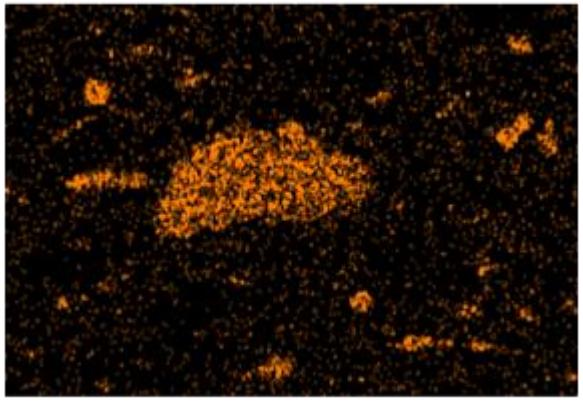
Mg Kα1_2



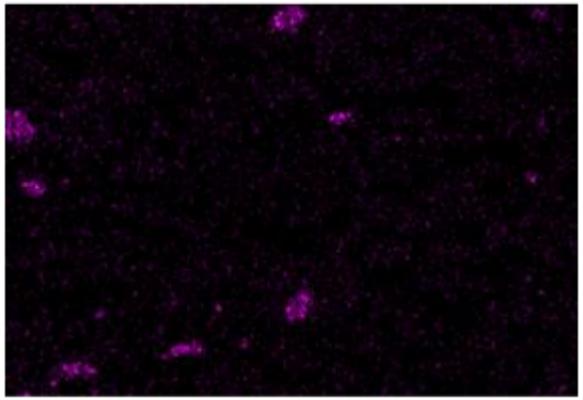
S Kα1



Fe Kα1

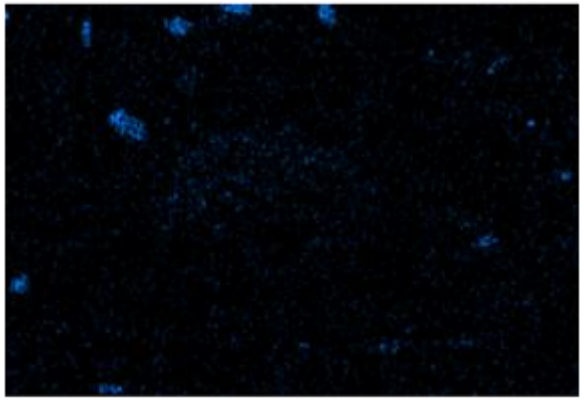


Na Kα1_2



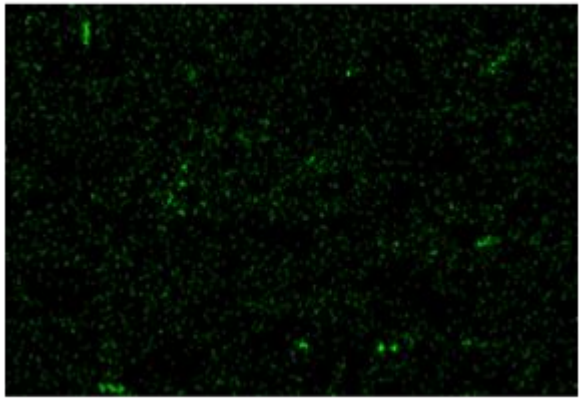
50µm

Ca Kα1



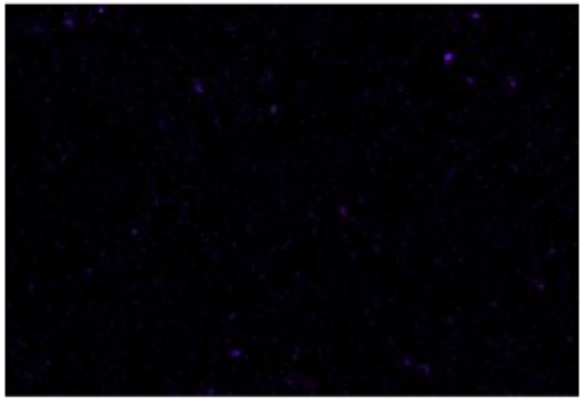
50µm

P Kα1



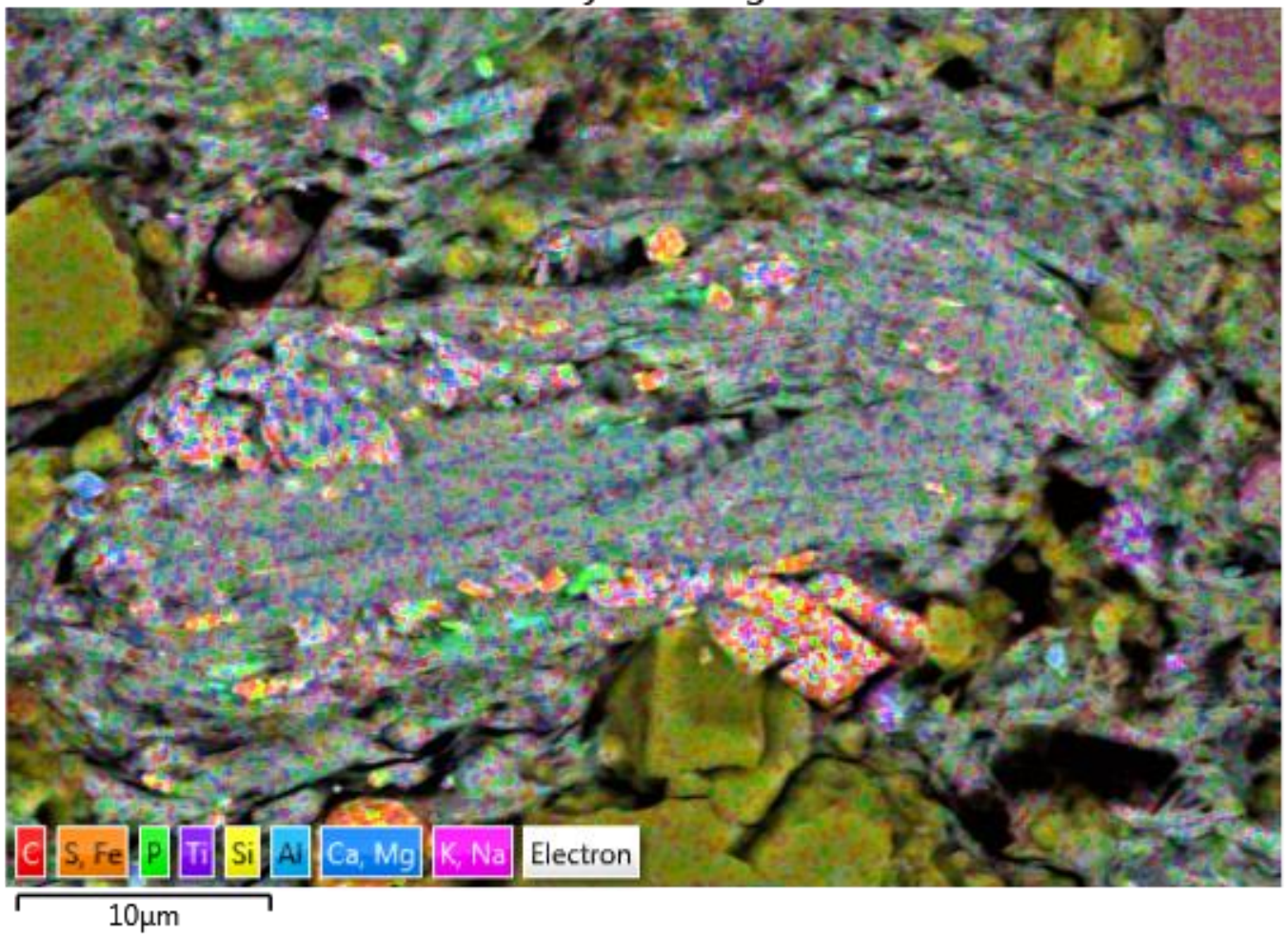
50µm

Ti Kα1



50µm

EDS Layered Image 6



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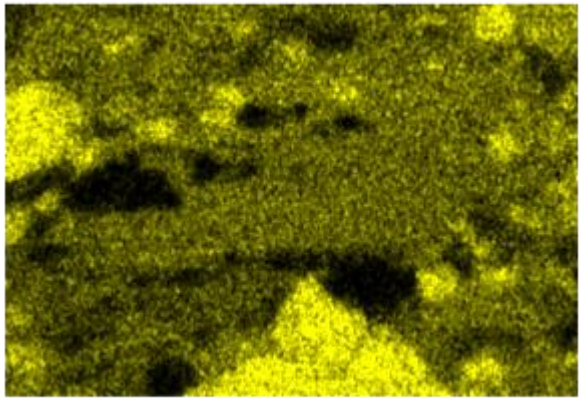
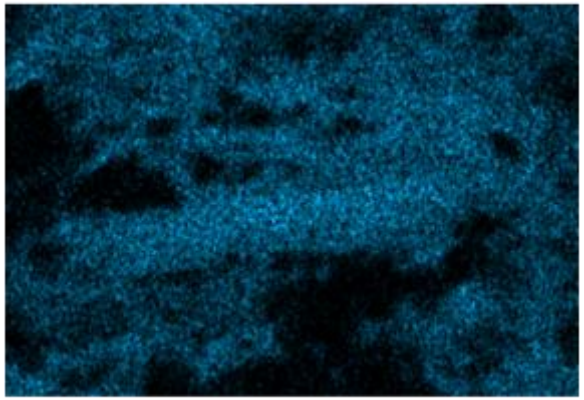
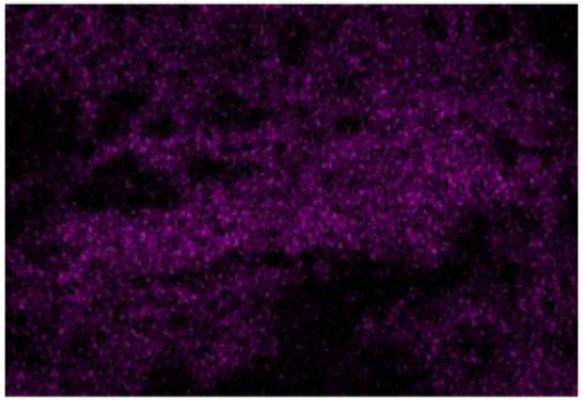
Si Kα1



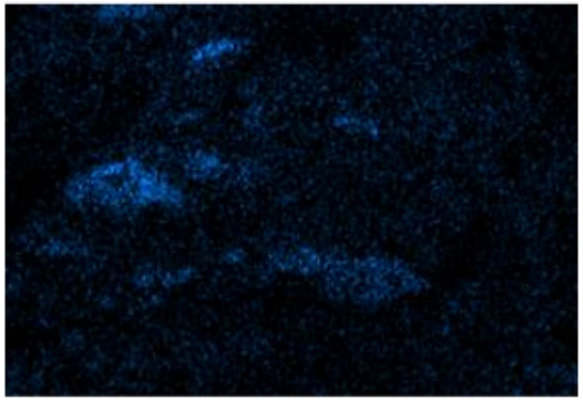
Al Kα1



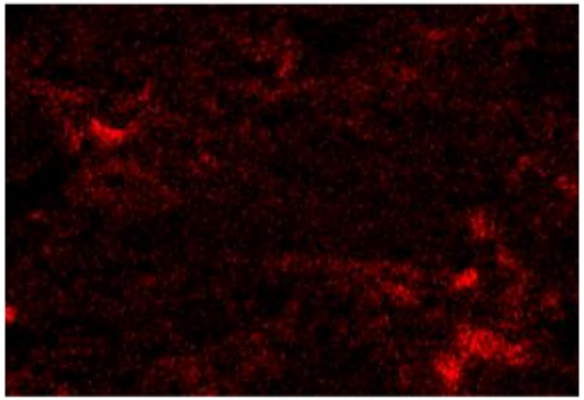
K Kα1



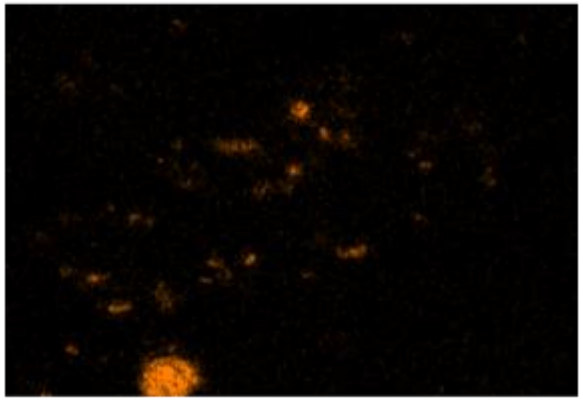
Mg Kα1_2



C Kα1_2



S Kα1



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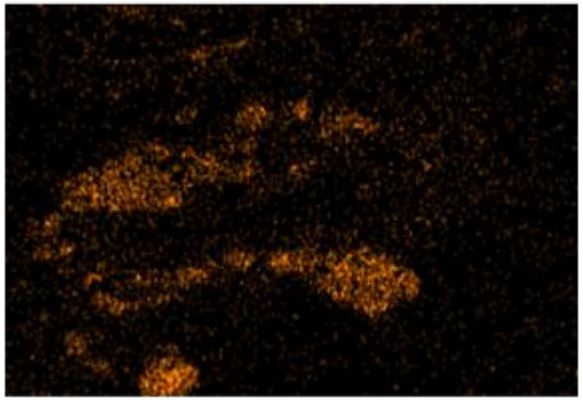
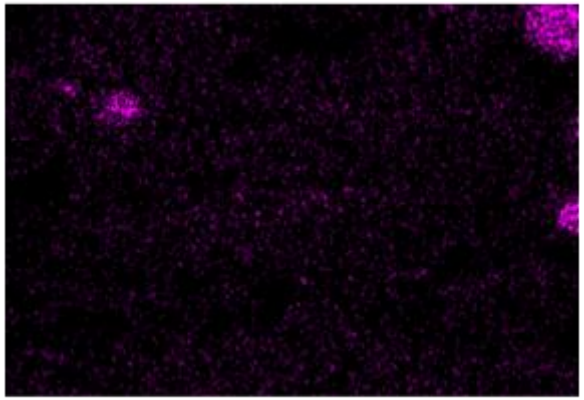
Fe Kα1



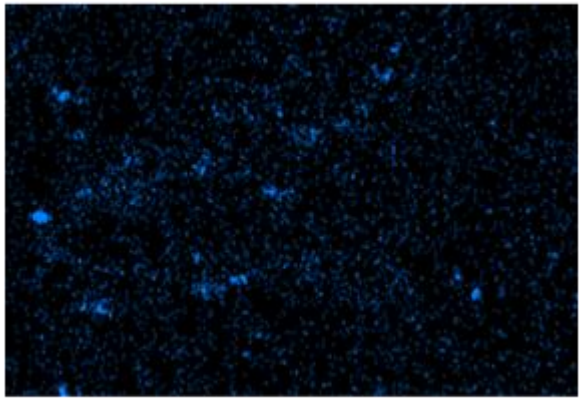
10µm

Na Kα1_2



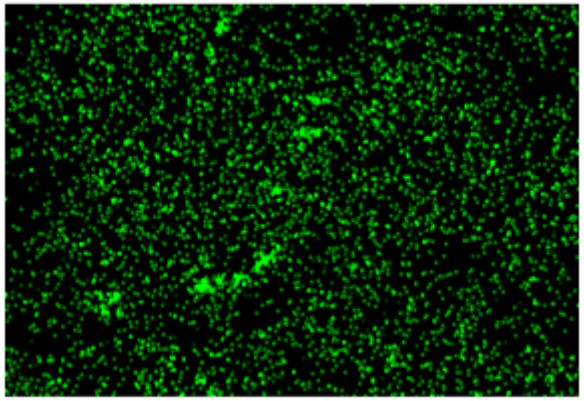
10µm

Ca Kα1



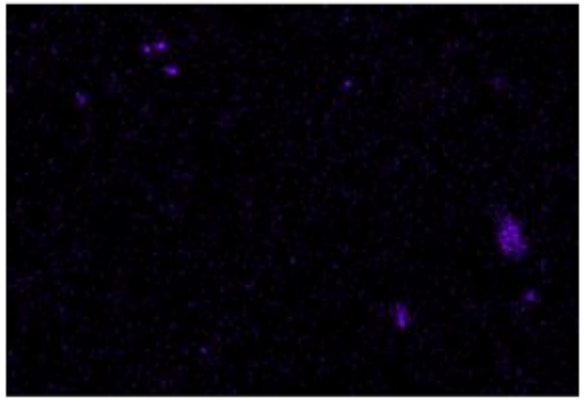
10µm

P Kα1



10µm

Ti Kα1



10µm

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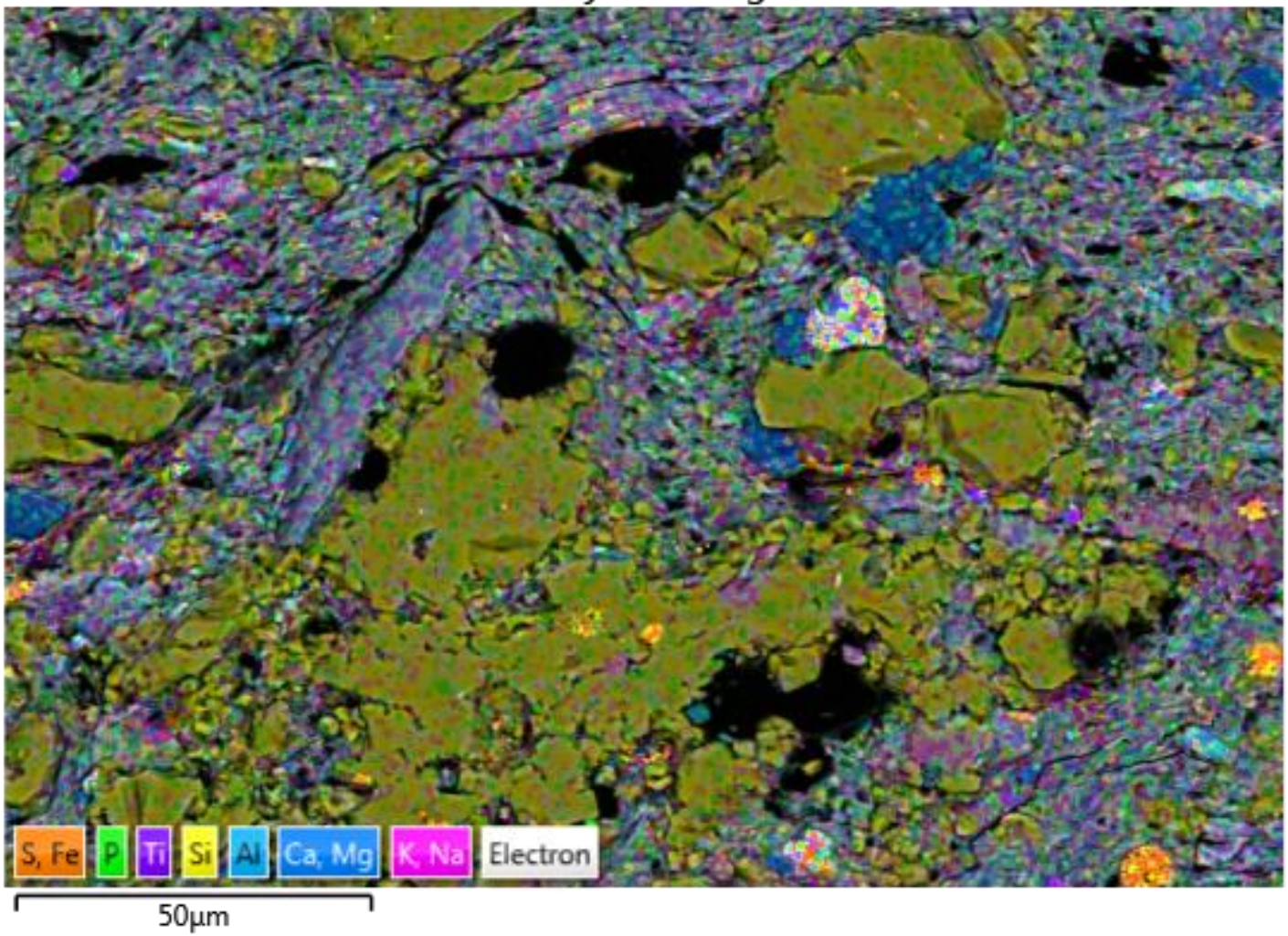
EDS Layered Image 7



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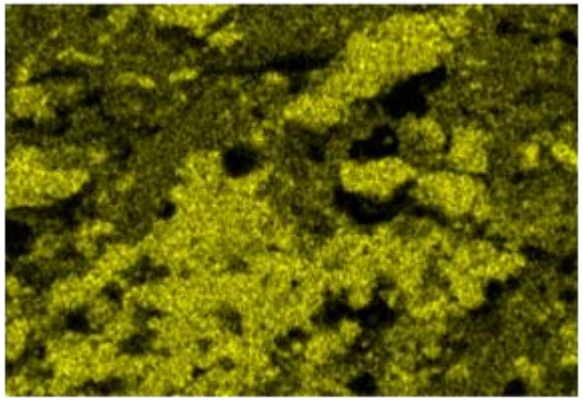
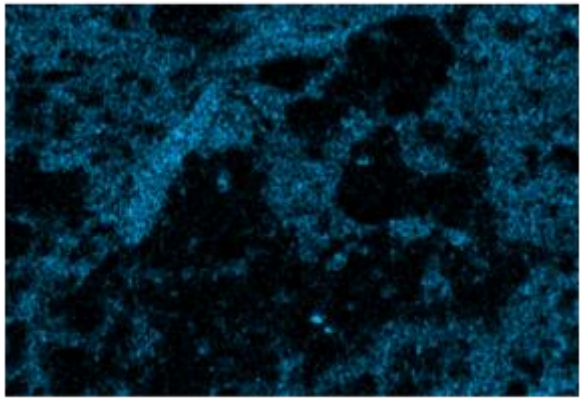
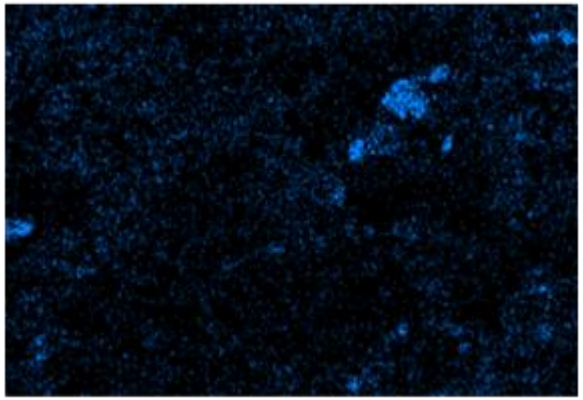
Si Kα1



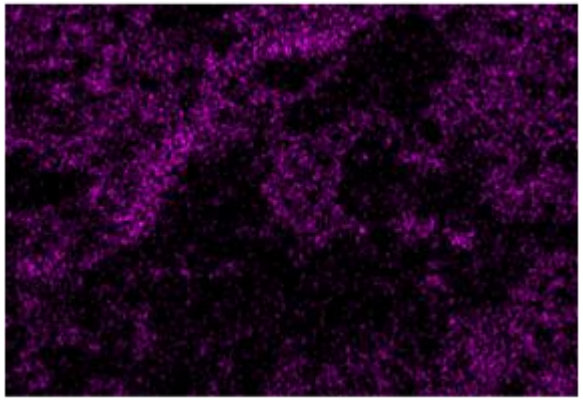
Al Kα1



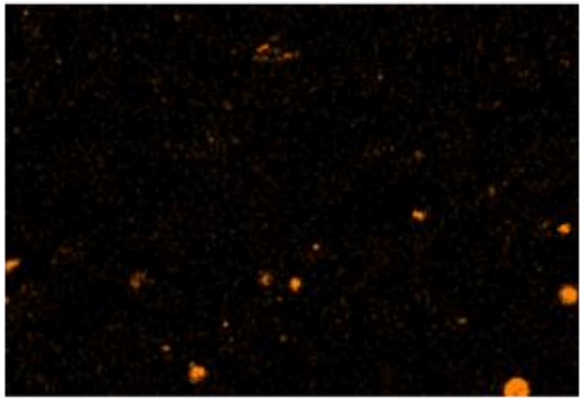
Mg Kα1_2



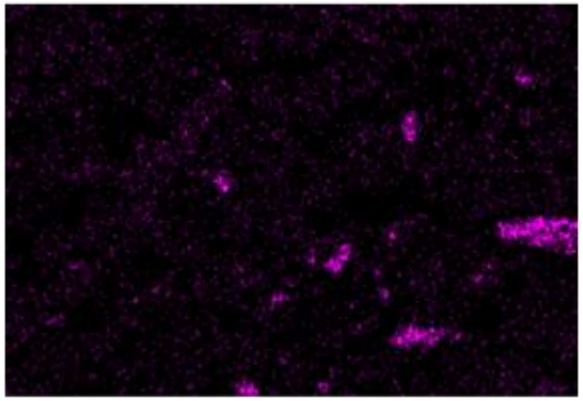
K Kα1



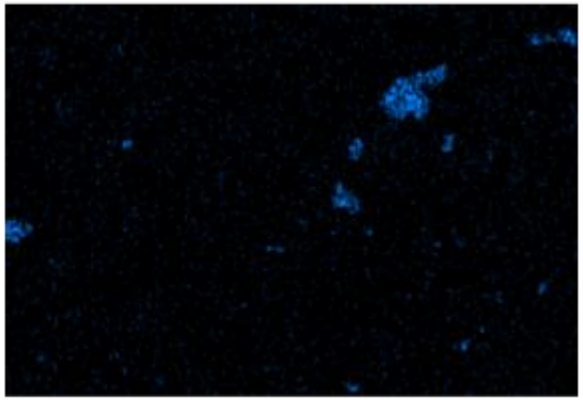
S Kα1



Na Kα1_2

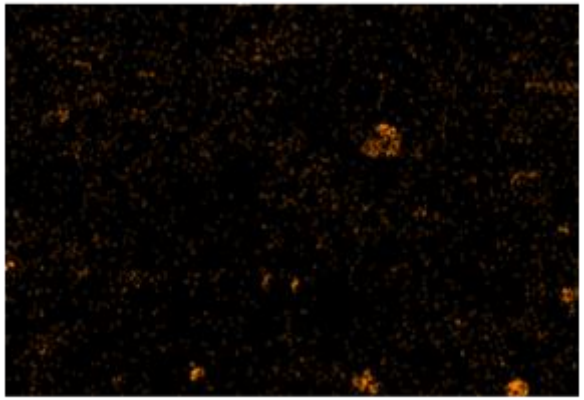


Ca Kα1



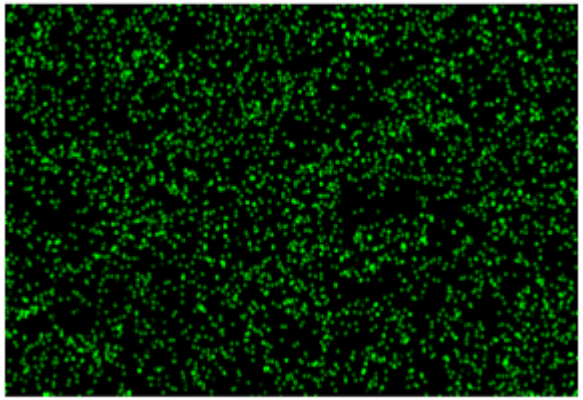
50µm

Fe Kα1



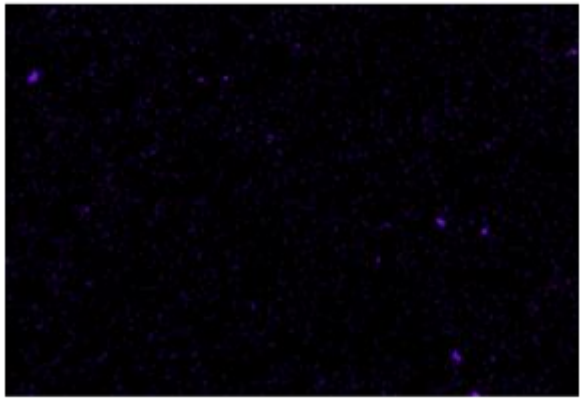
50µm

P Kα1



50µm

Ti Kα1



50µm

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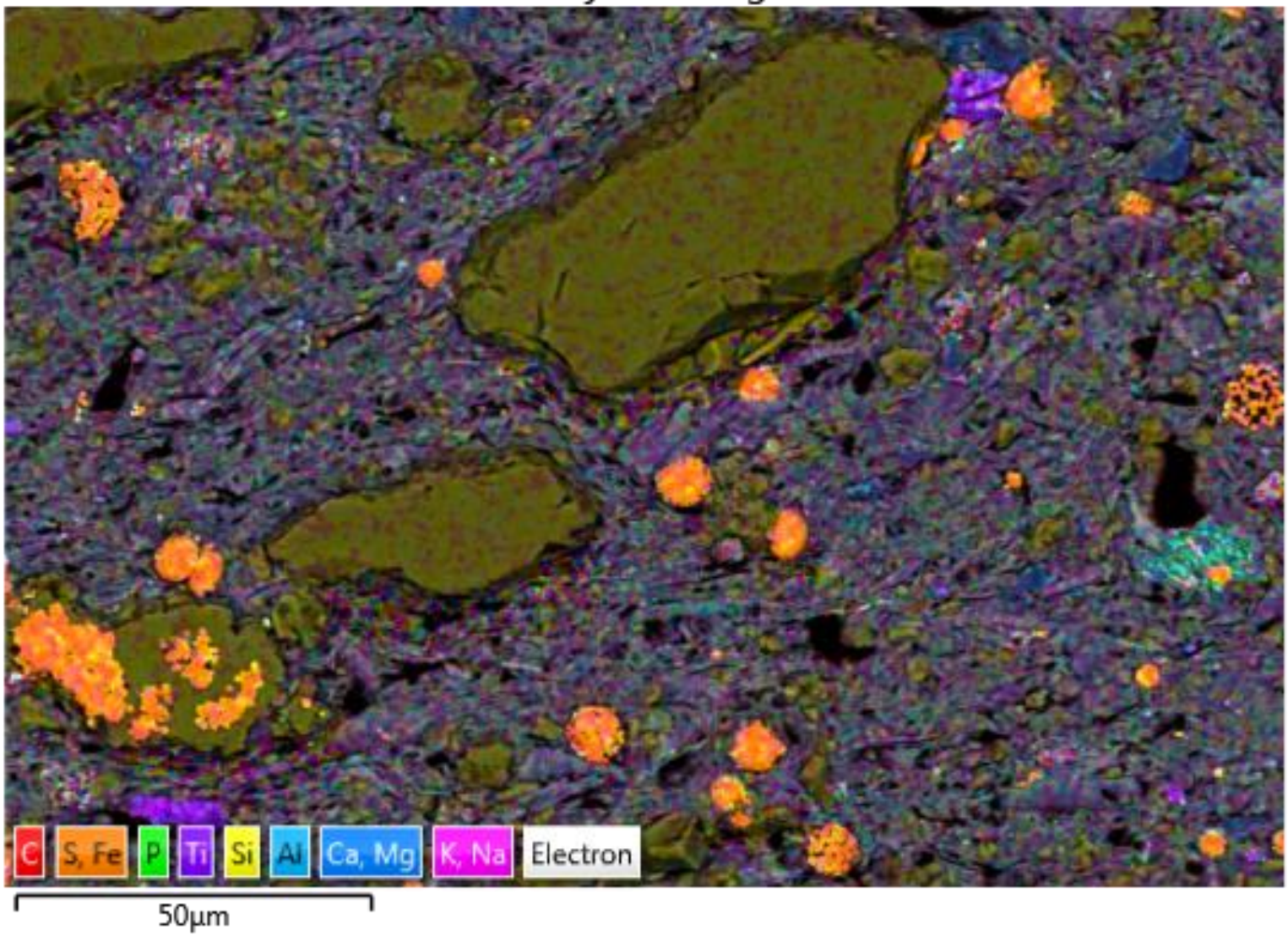
EDS Layered Image 1



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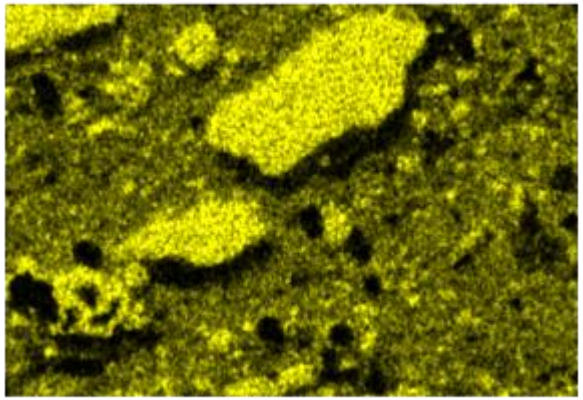
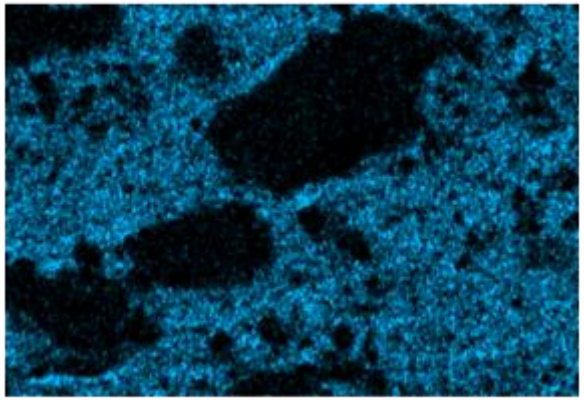
Si Kα1



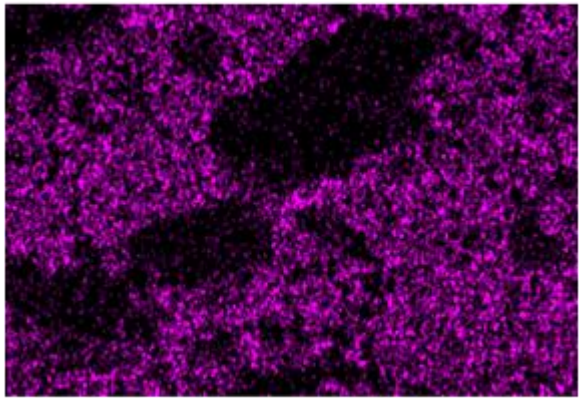
50µm

Al Kα1



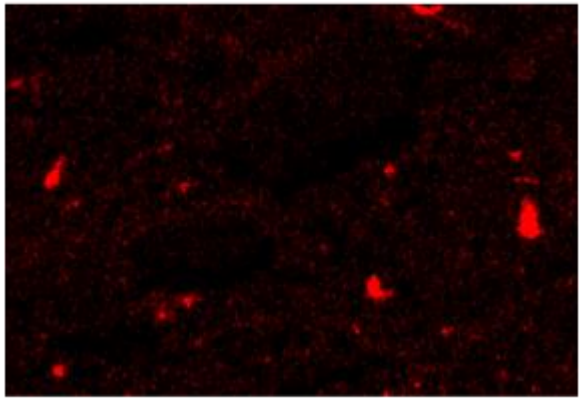
50µm

K Kα1



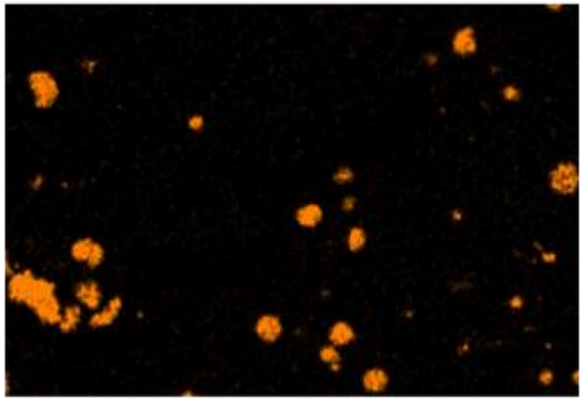
50µm

C Kα1_2



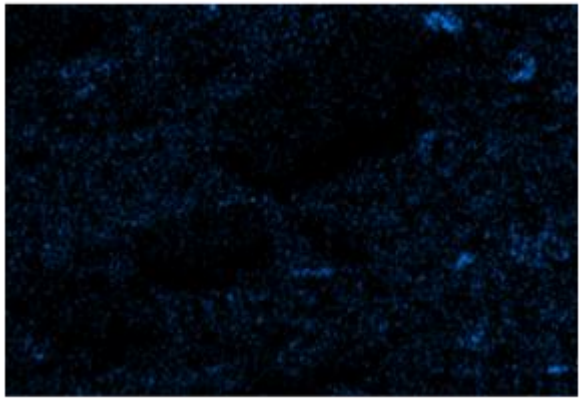
50µm

S Kα1



50µm

Mg Kα1_2



50µm

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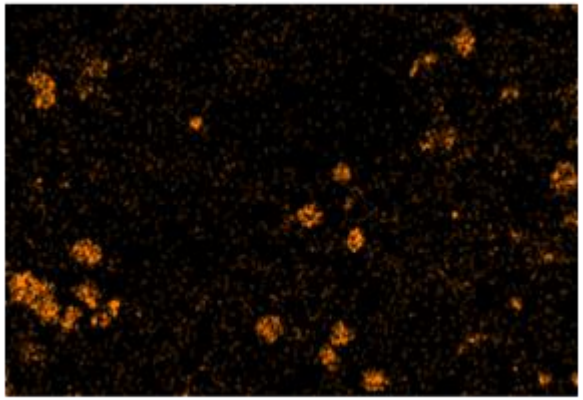
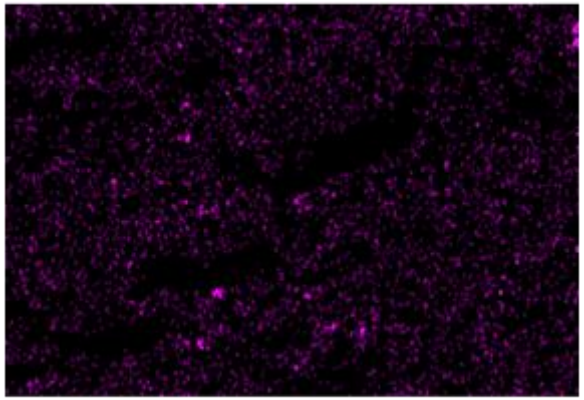
Fe Kα1



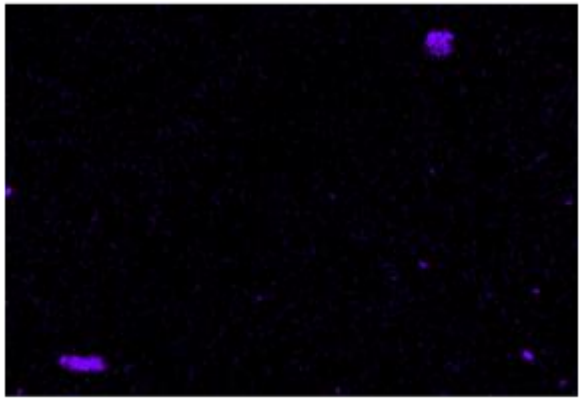
50µm

Na Kα1_2



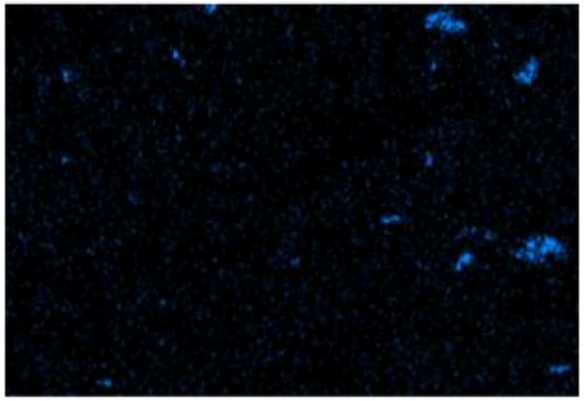
50µm

Ti Kα1



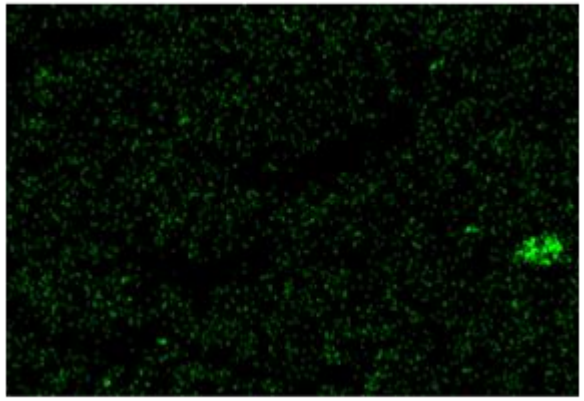
50µm

Ca Kα1



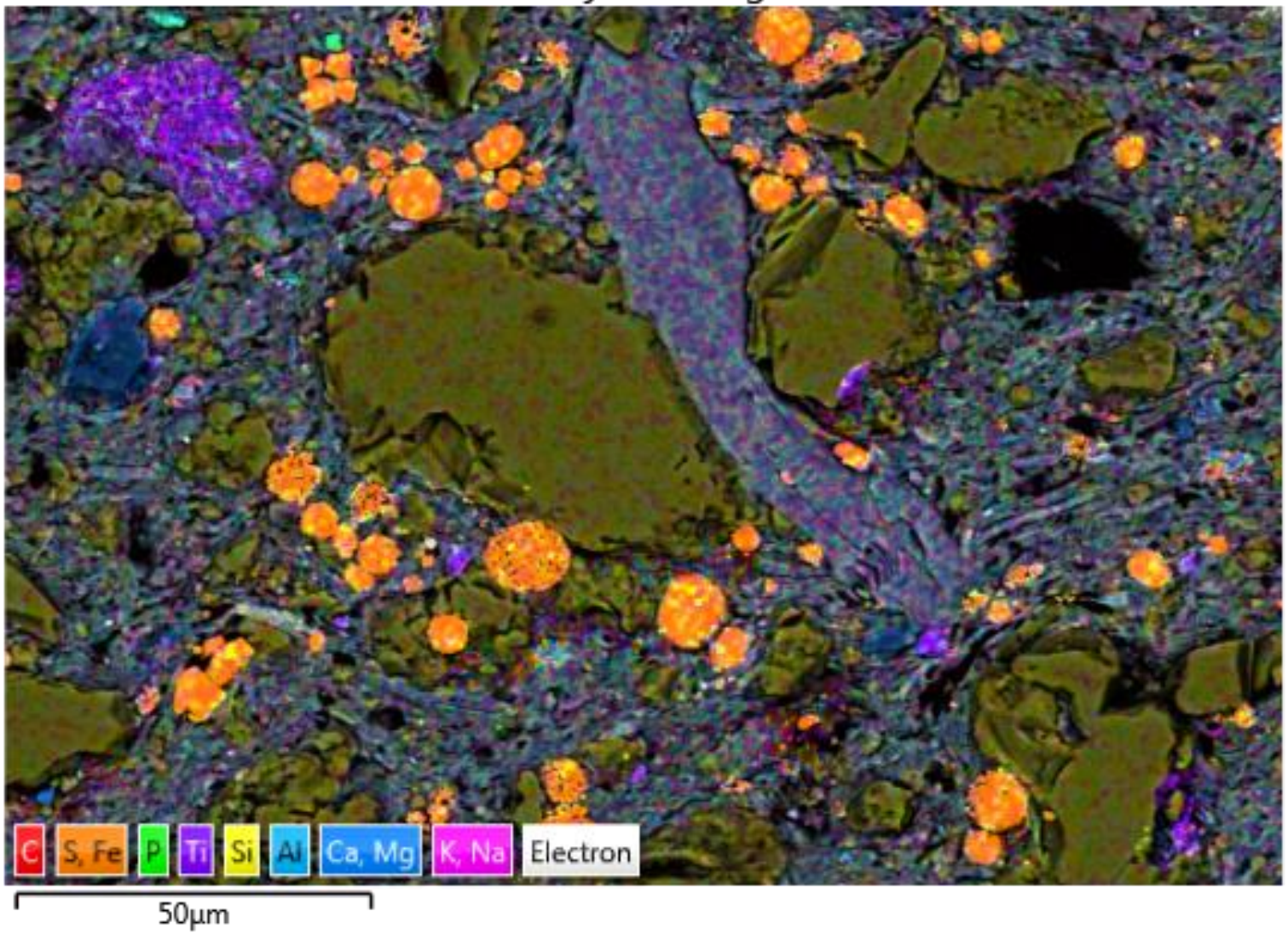
50µm

P Kα1



50µm

EDS Layered Image 2



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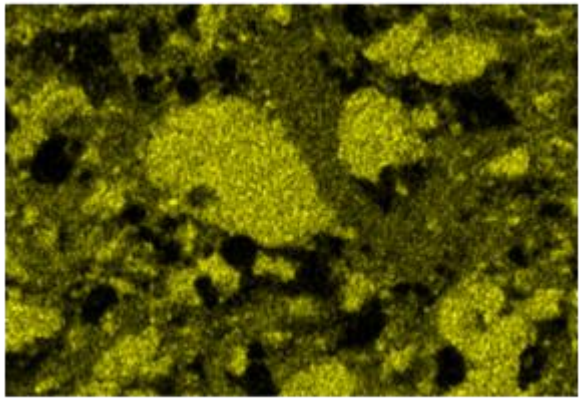
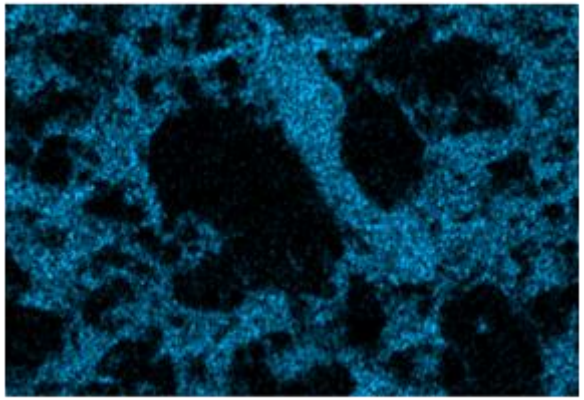
Si Kα1



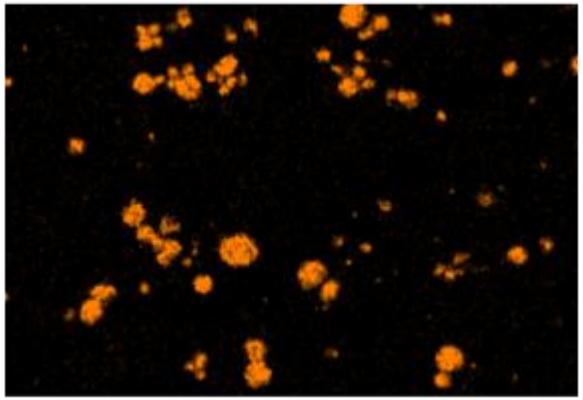
50µm

Al Kα1



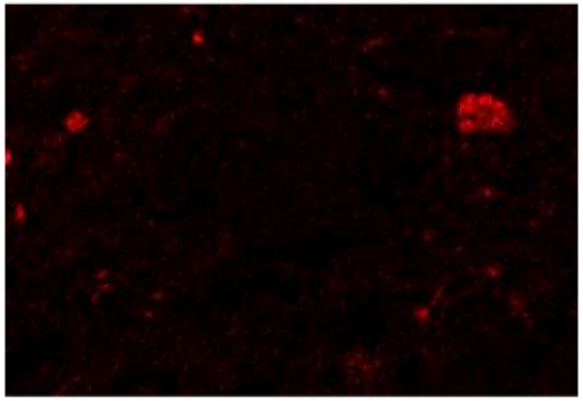
50µm

S Kα1



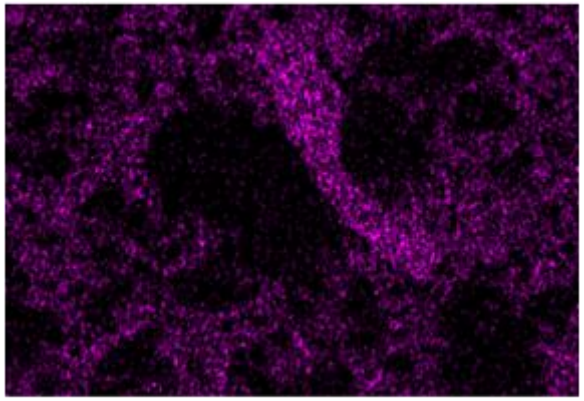
50µm

C Kα1_2



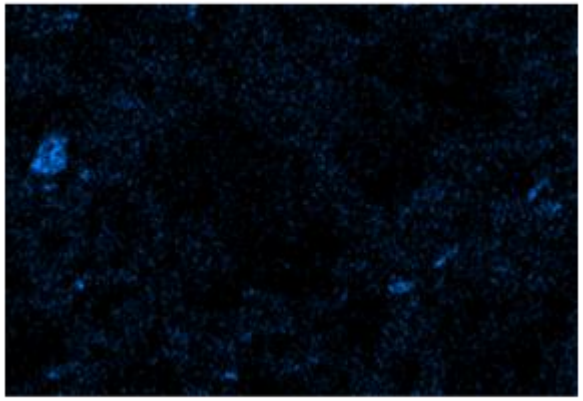
50µm

K Kα1



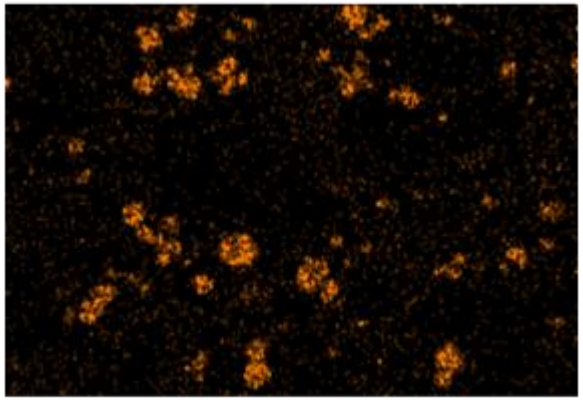
50µm

Mg Kα1_2



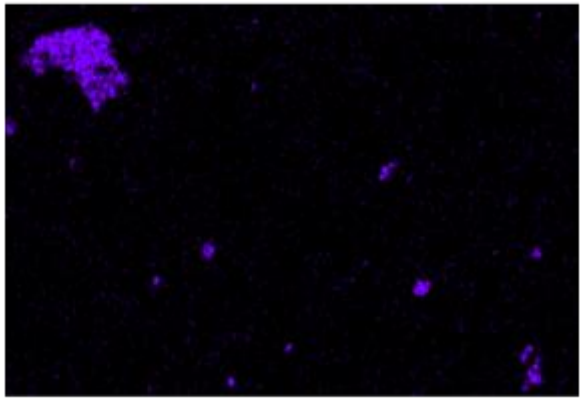
50µm

Fe Kα1



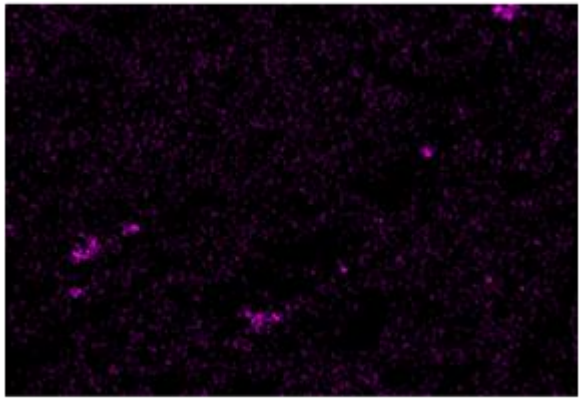
50µm

Ti Kα1



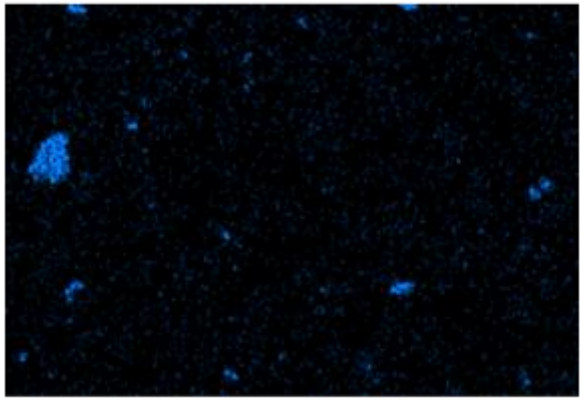
50µm

Na Kα1_2



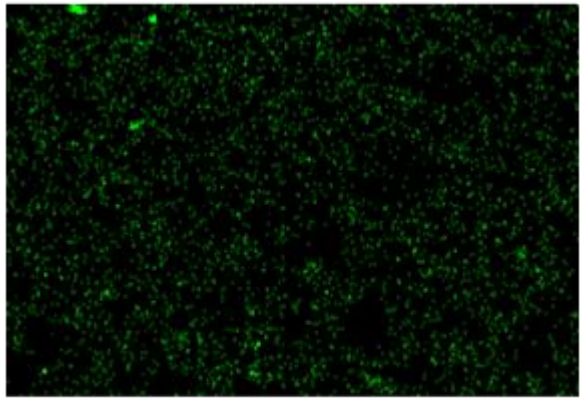
50µm

Ca Kα1



50µm

P Kα1



50µm

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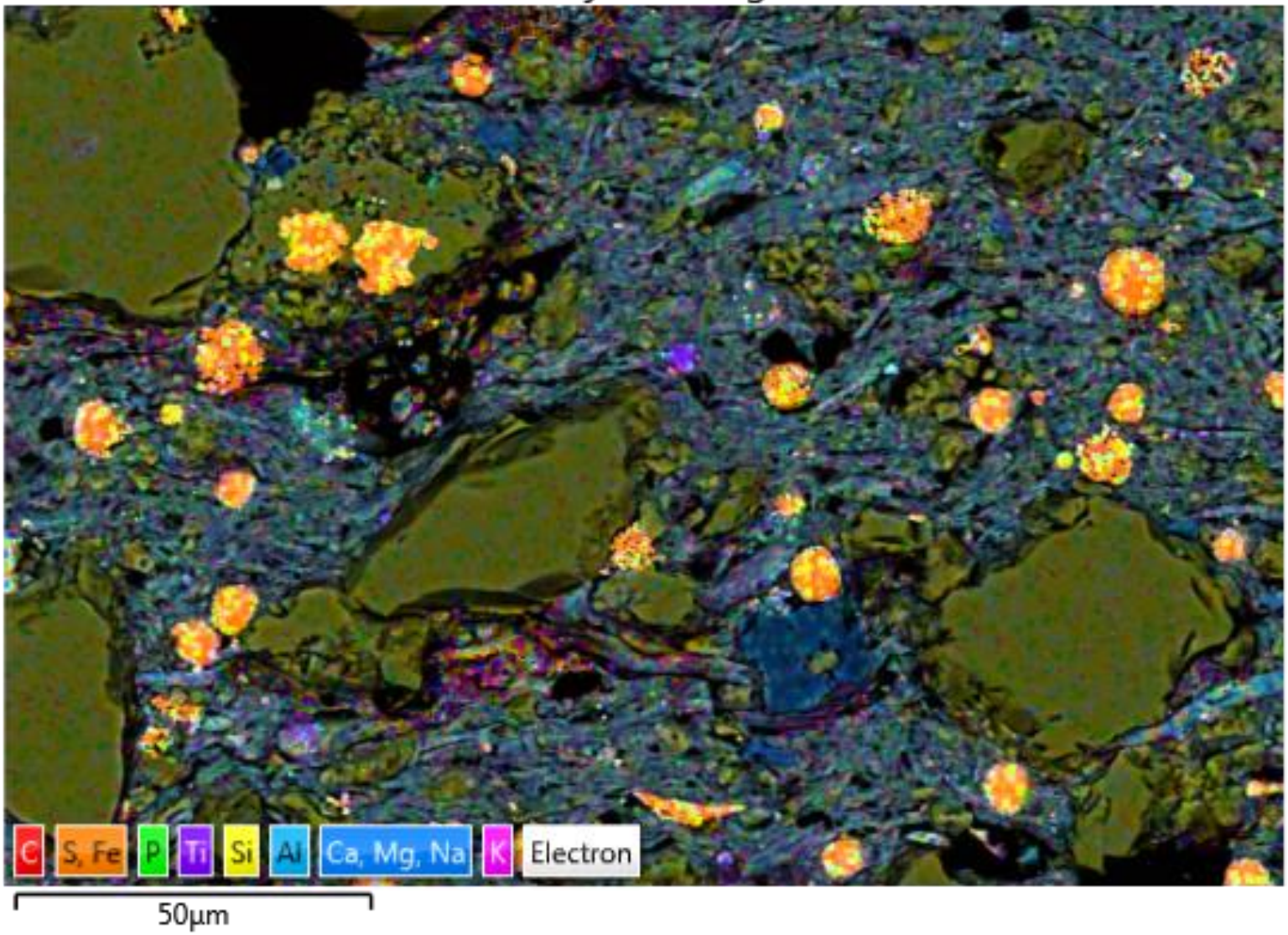
EDS Layered Image 3



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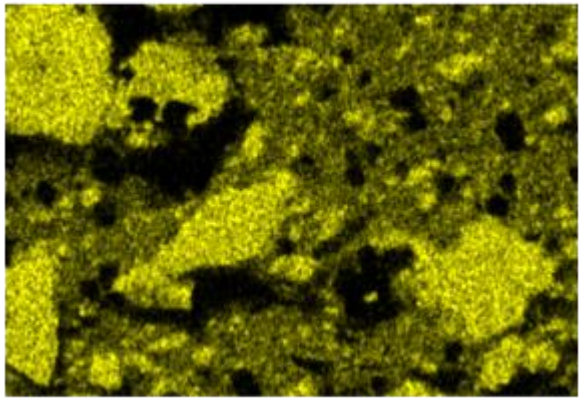
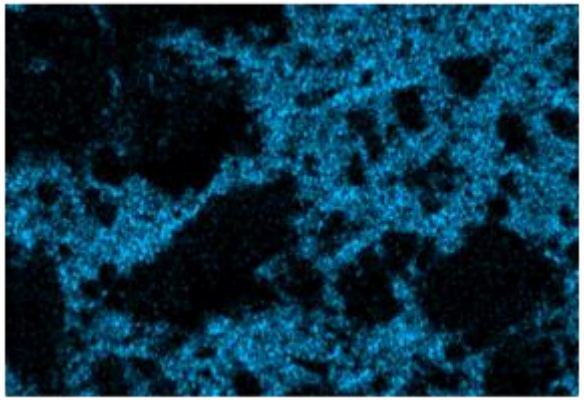
Si Kα1



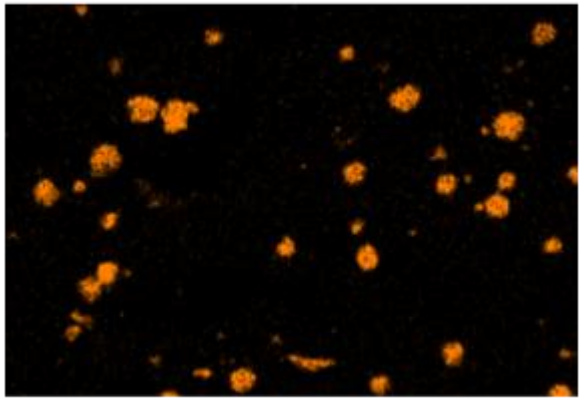
50µm

Al Kα1



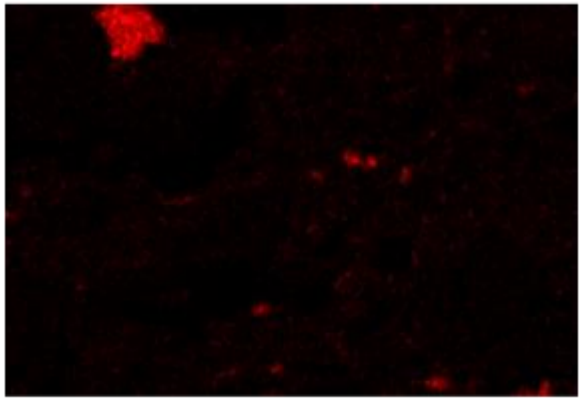
50µm

S Kα1



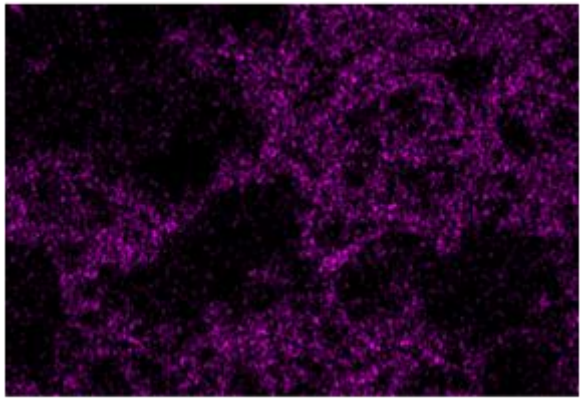
50µm

C Kα1_2



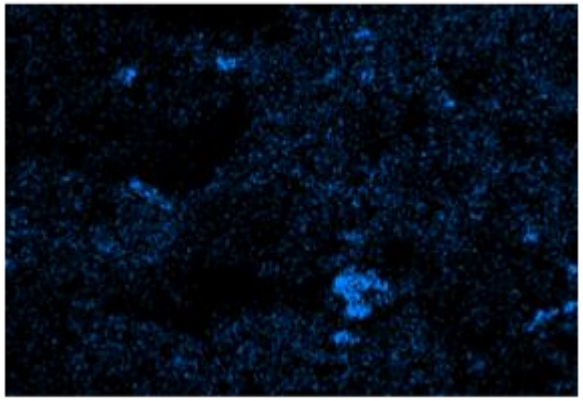
50µm

K Kα1



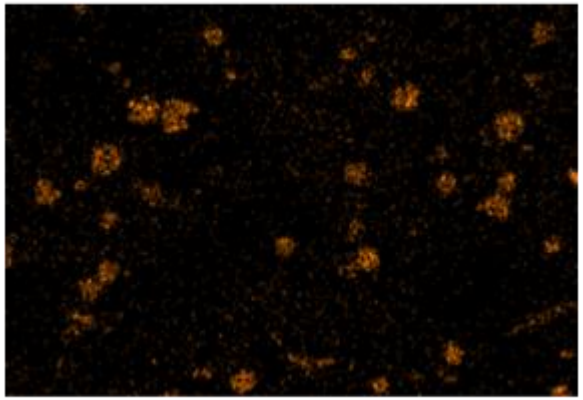
50µm

Mg Kα1_2



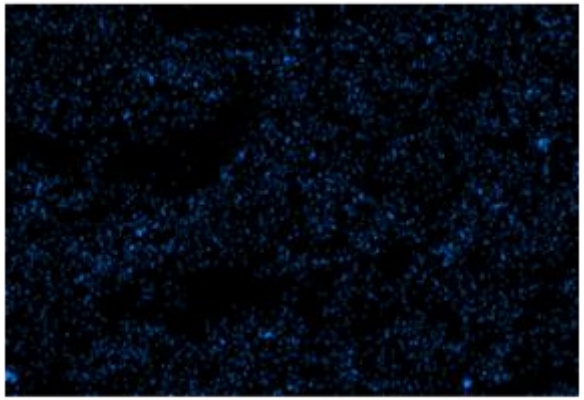
50µm

Fe Kα1



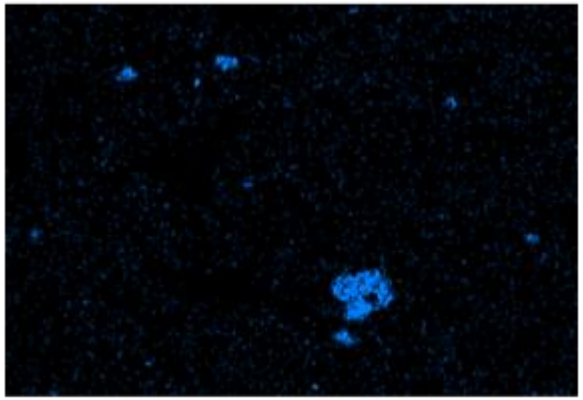
50µm

Na Kα1_2



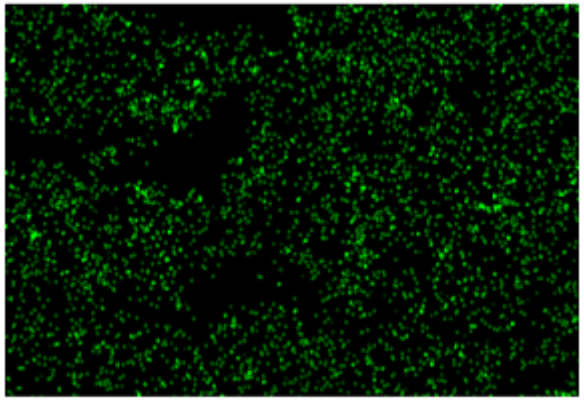
50µm

Ca Kα1



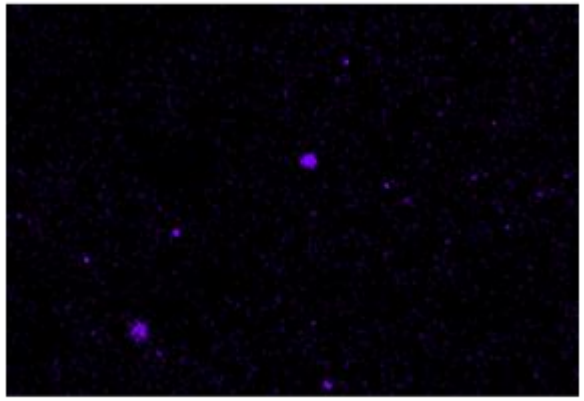
50µm

P Kα1



50µm

Ti Kα1



50µm

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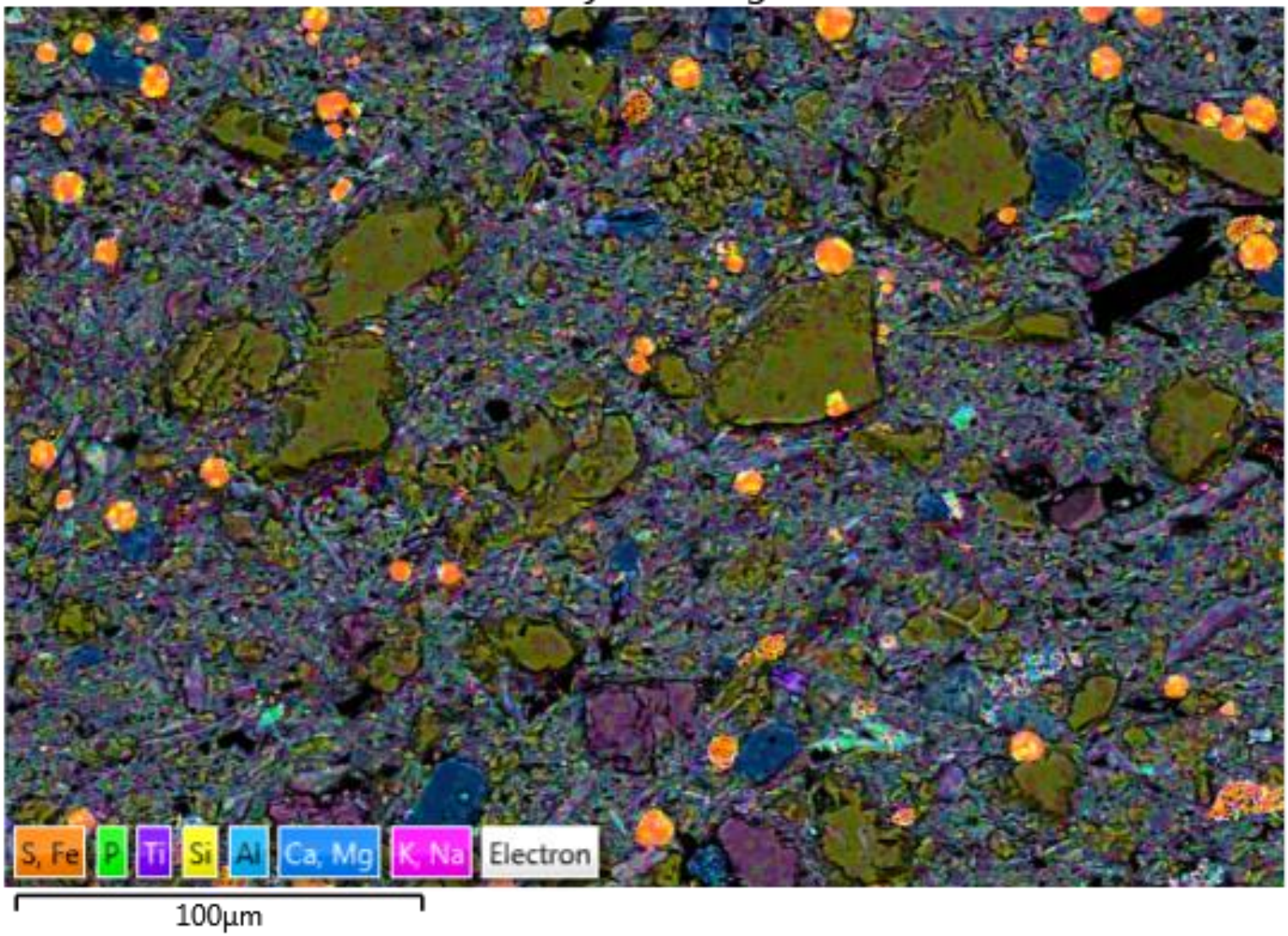
EDS Layered Image 4



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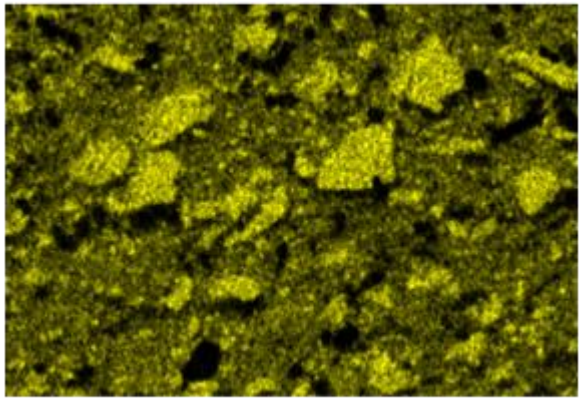
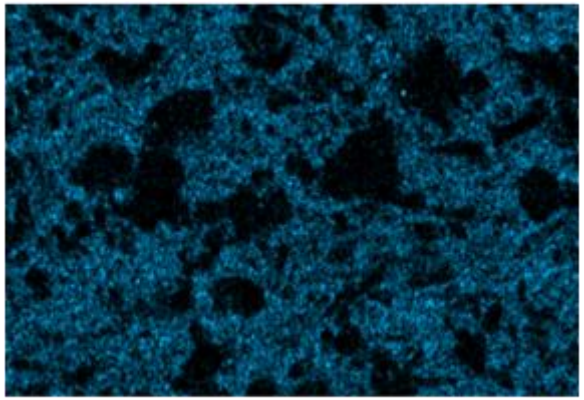
Si Kα1



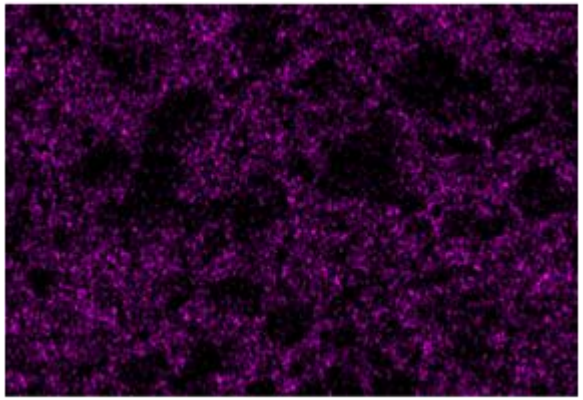
100µm

Al Kα1



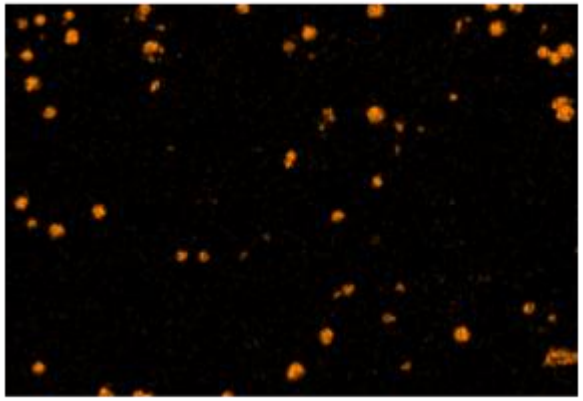
100µm

K Kα1



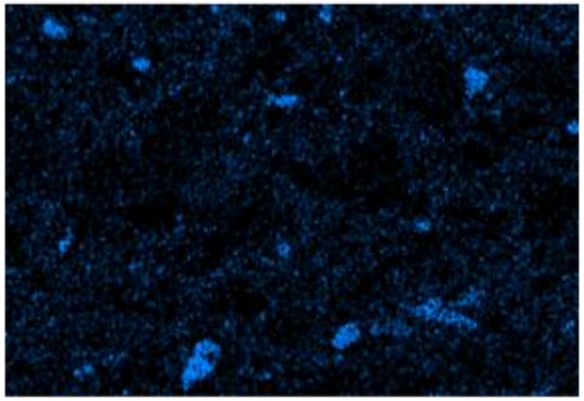
100µm

S Kα1



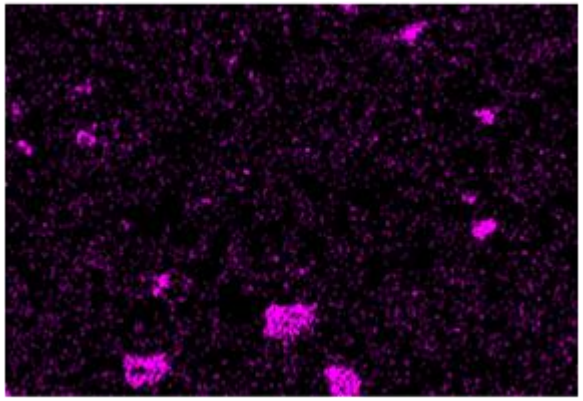
100µm

Mg Kα1_2



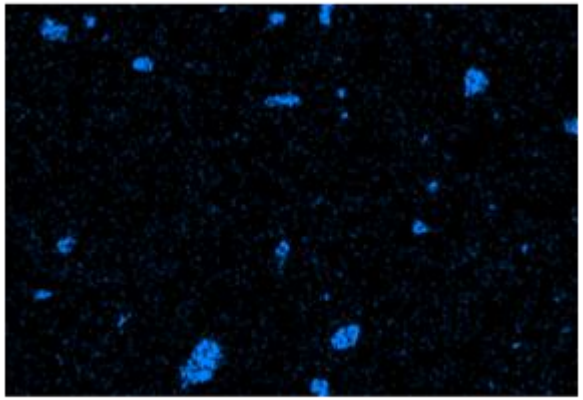
100µm

Na Kα1_2



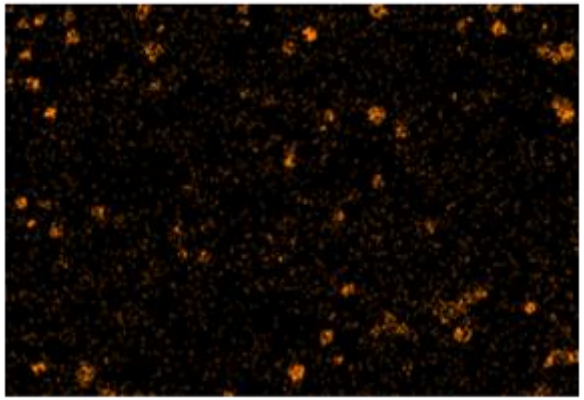
100µm

Ca Kα1



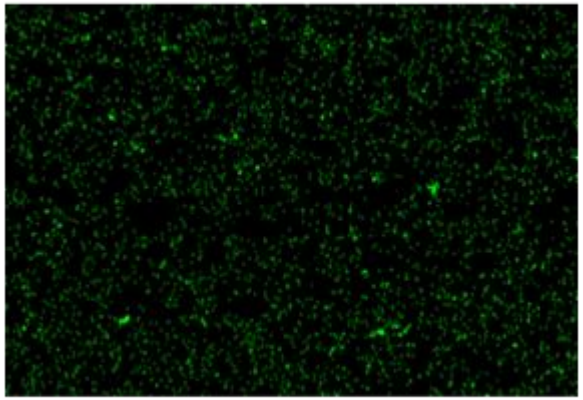
100µm

Fe Kα1



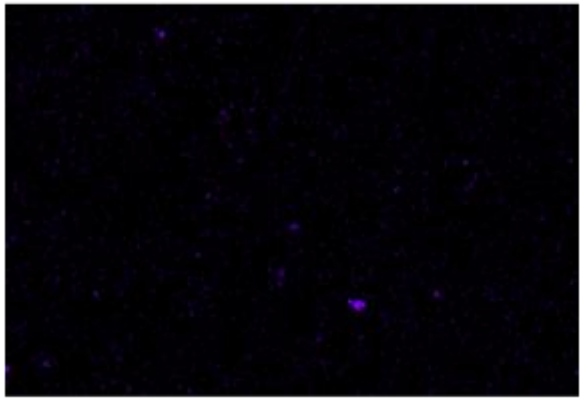
100µm

P Kα1



100µm

Ti Kα1



100µm

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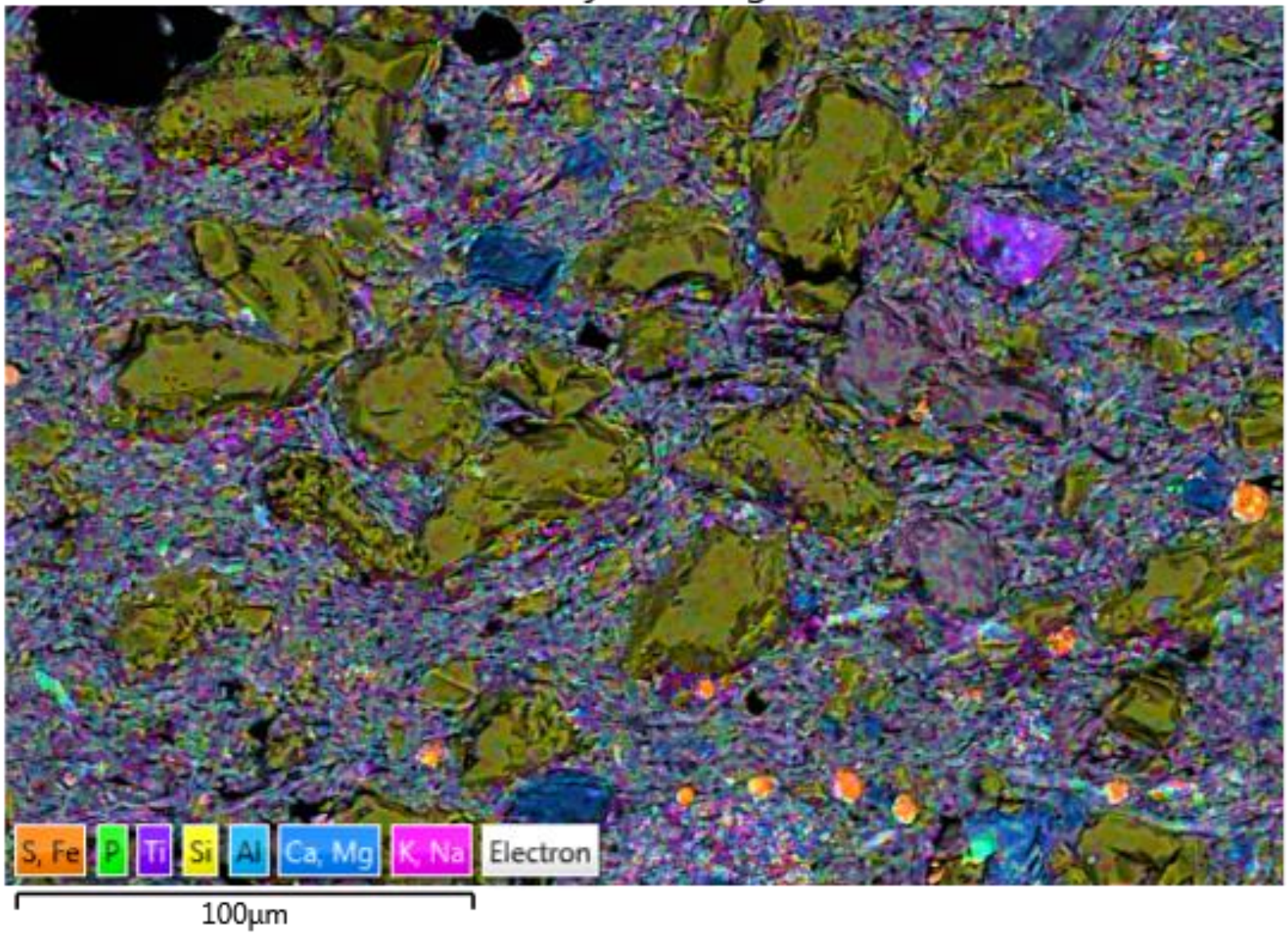
EDS Layered Image 1



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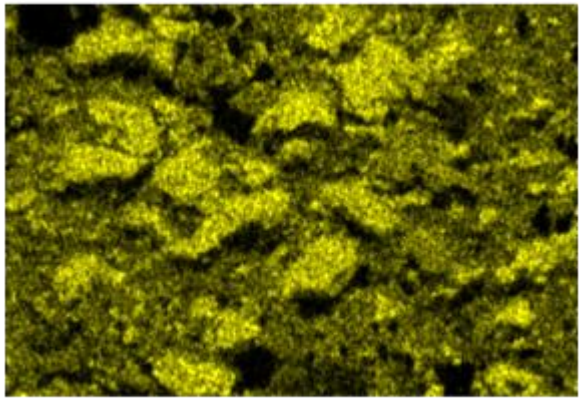
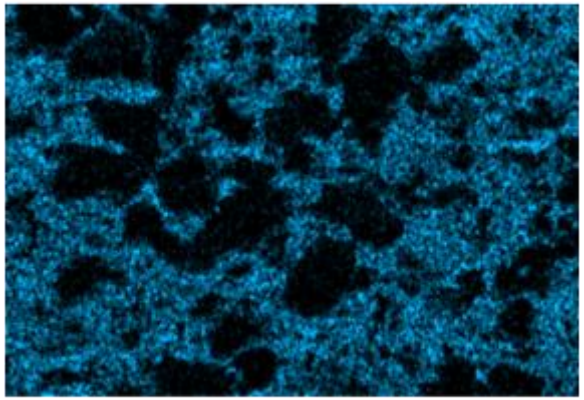
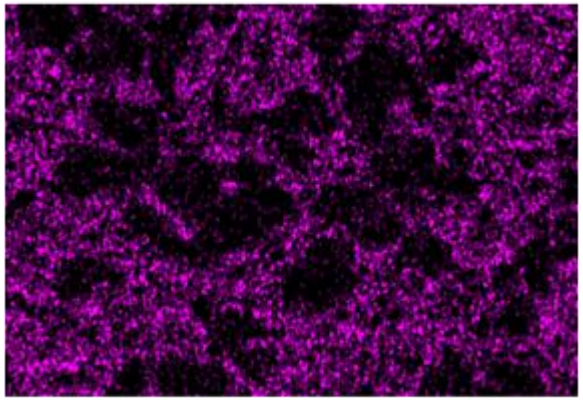
Si Kα1



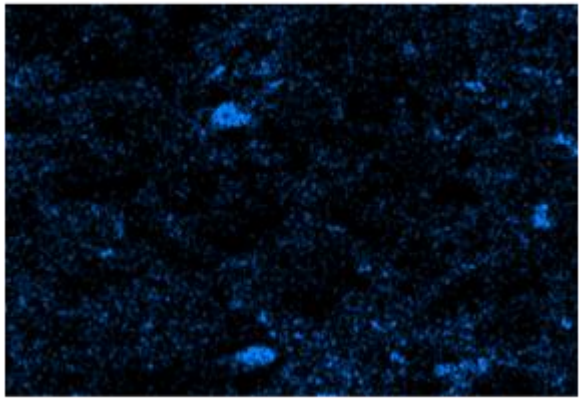
Al Kα1



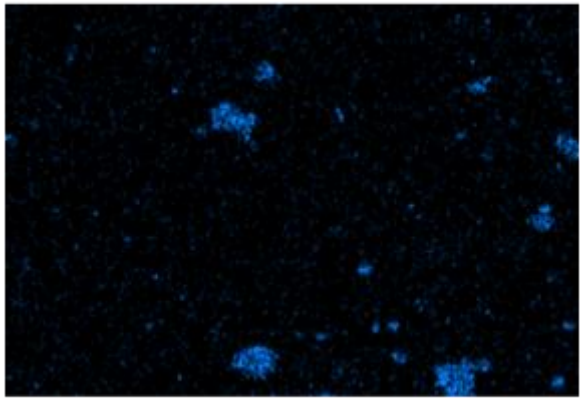
K Kα1



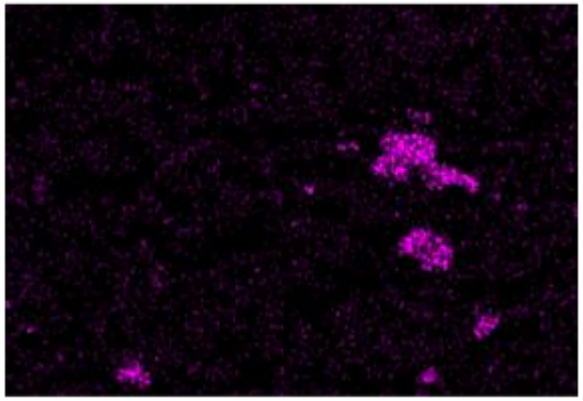
Mg Kα1_2



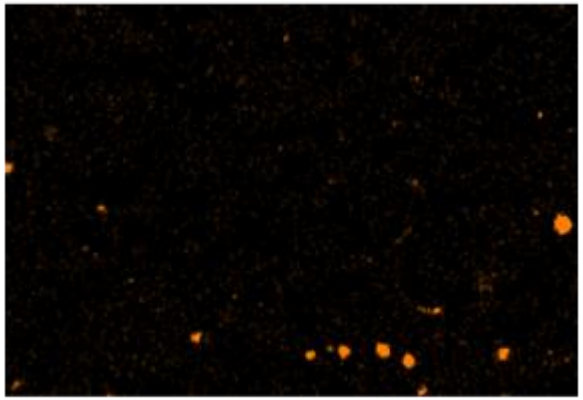
Ca Kα1



Na Kα1_2

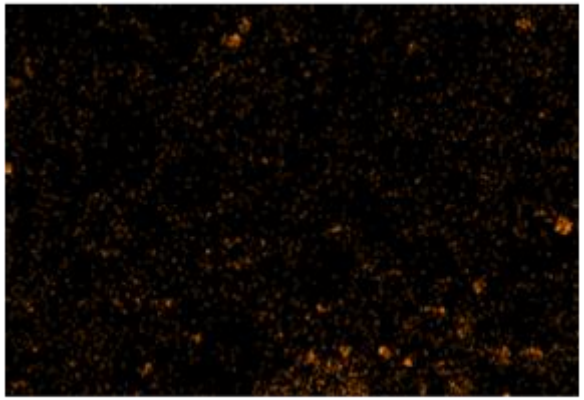


S Kα1



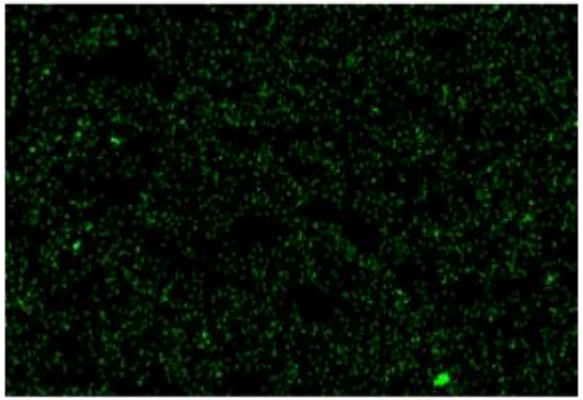
100µm

Fe Kα1



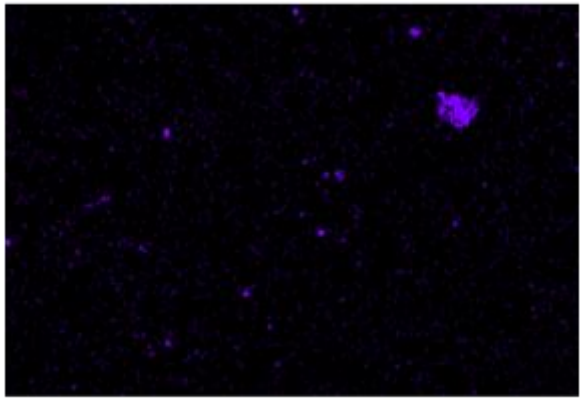
100µm

P Kα1



100µm

Ti Kα1



100µm

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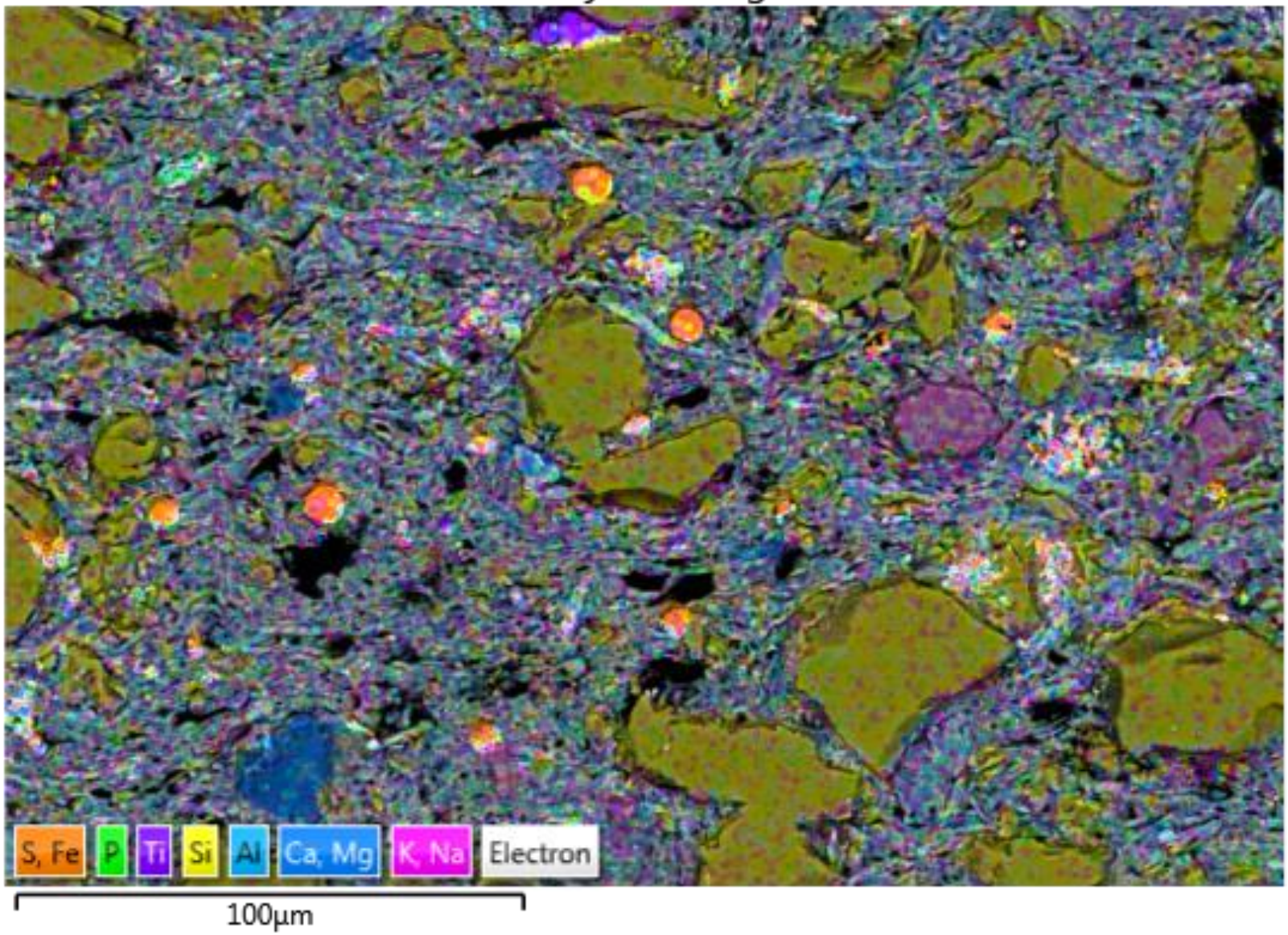
EDS Layered Image 1



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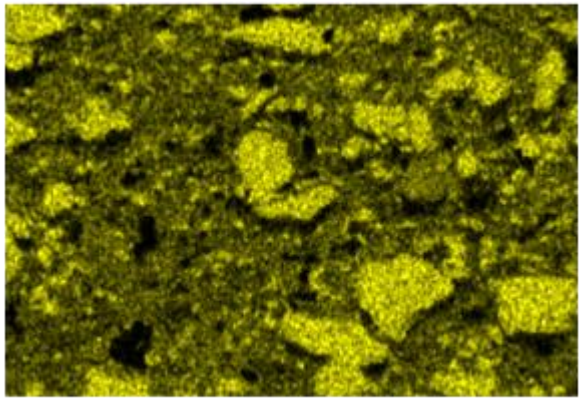
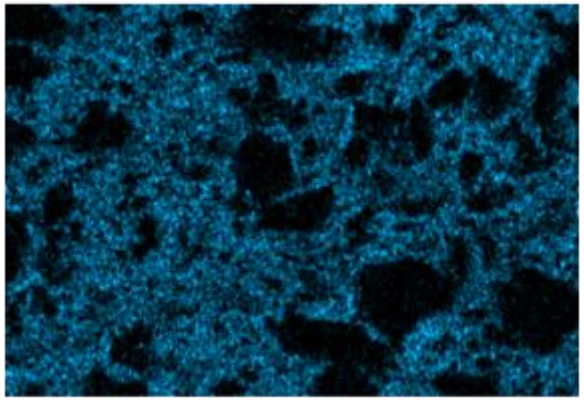
Si Kα1



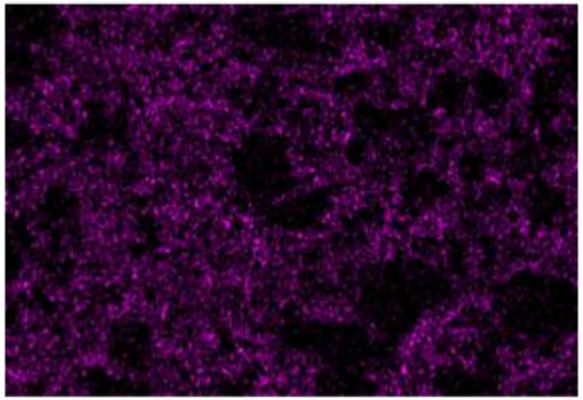
100µm

Al Kα1



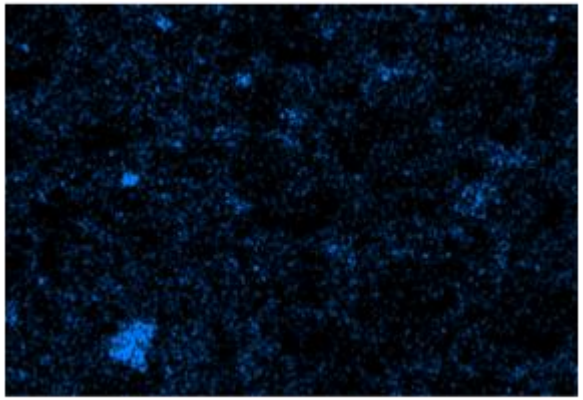
100µm

K Kα1



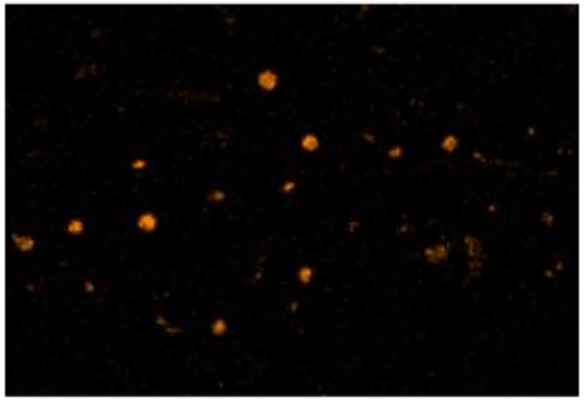
100µm

Mg Kα1_2



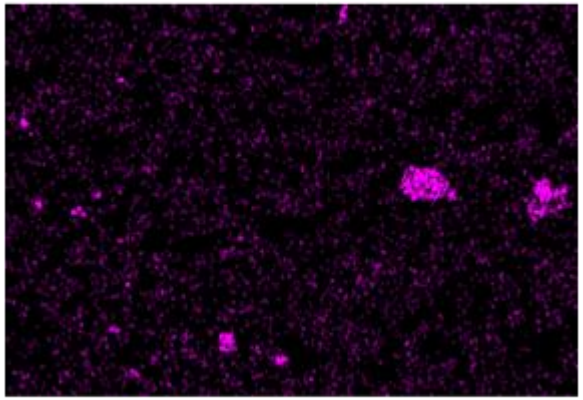
100µm

S Kα1



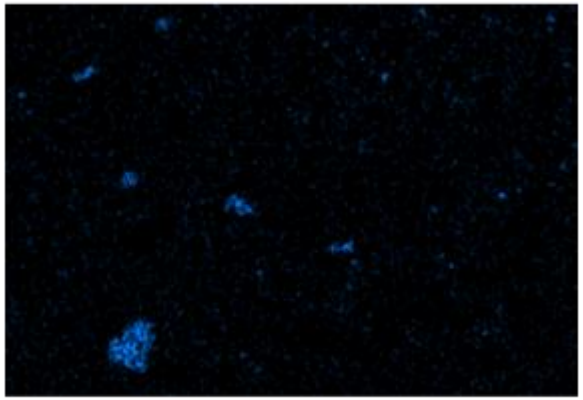
100µm

Na Kα1_2



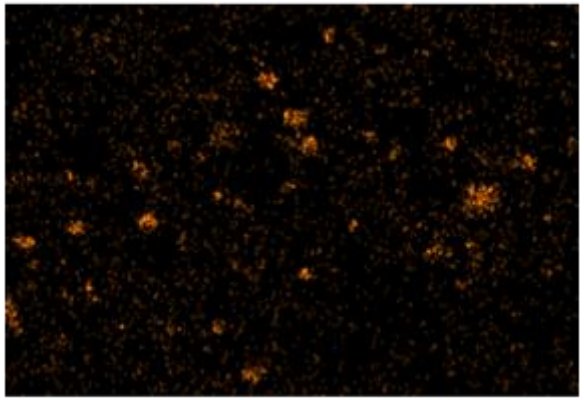
100µm

Ca Kα1



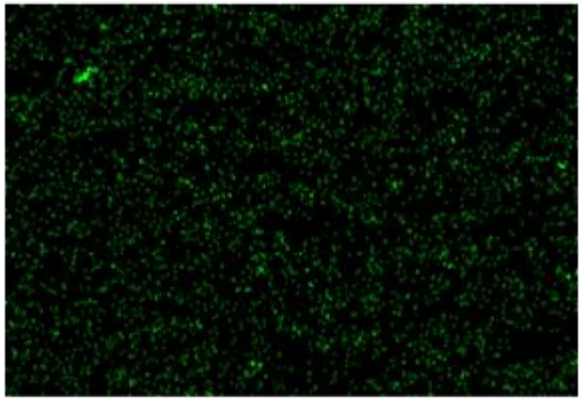
100µm

Fe Kα1



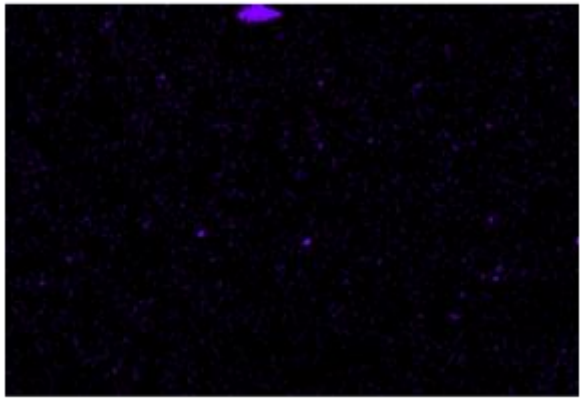
100µm

P Kα1



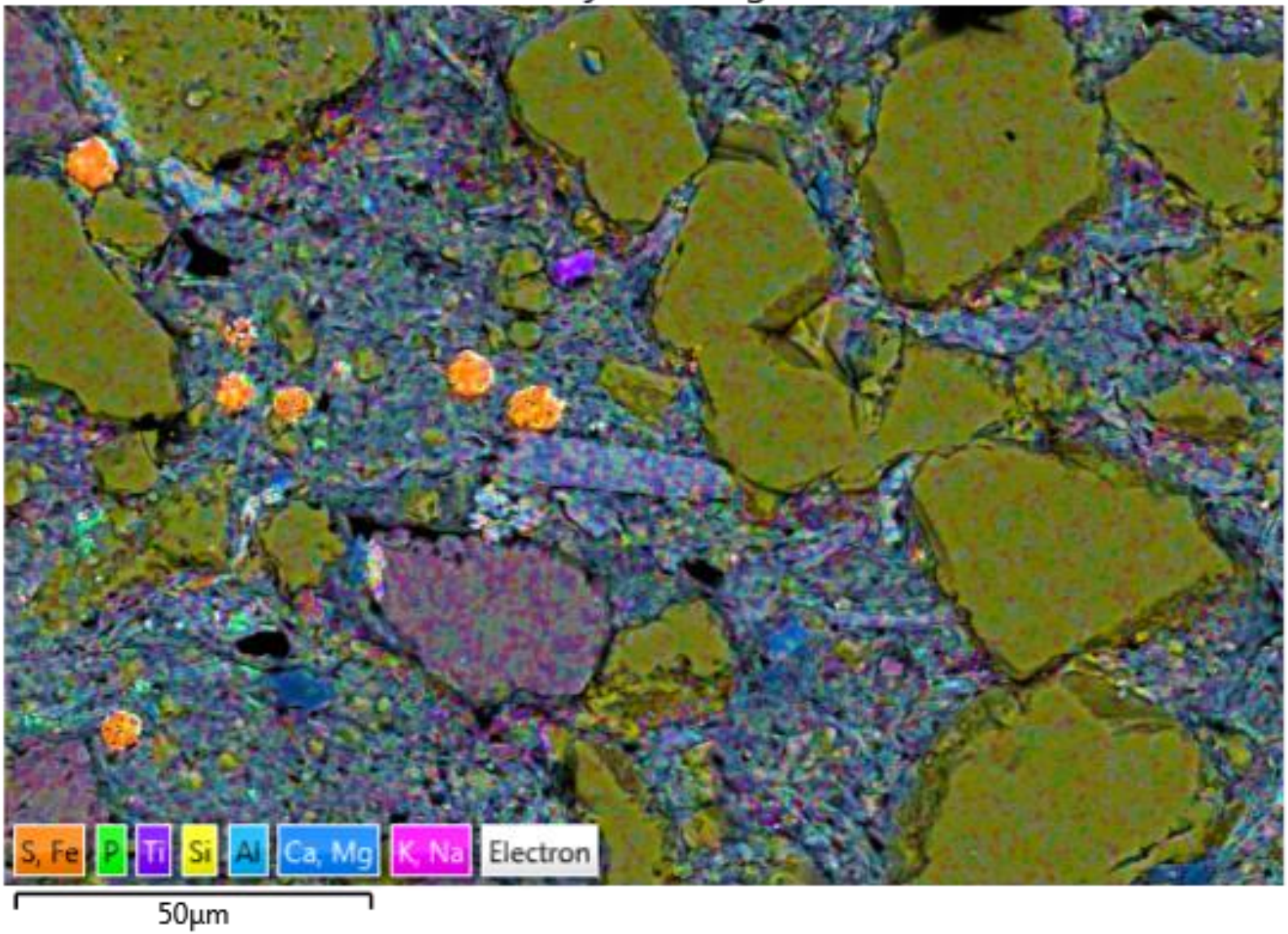
100µm

Ti Kα1



100µm

EDS Layered Image 1



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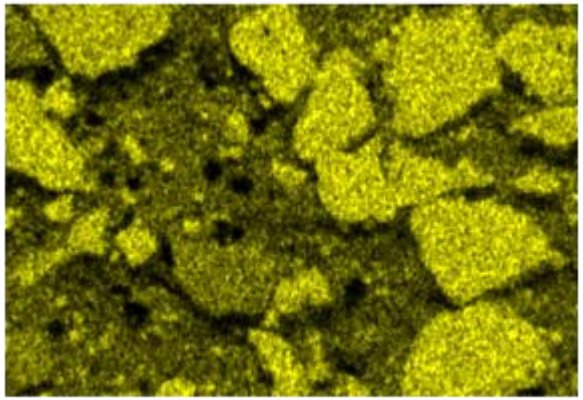
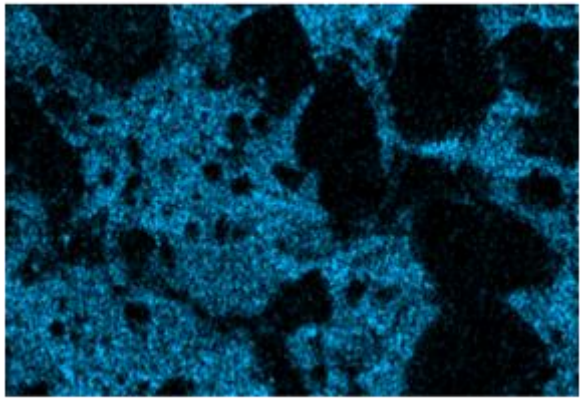
Si Kα1



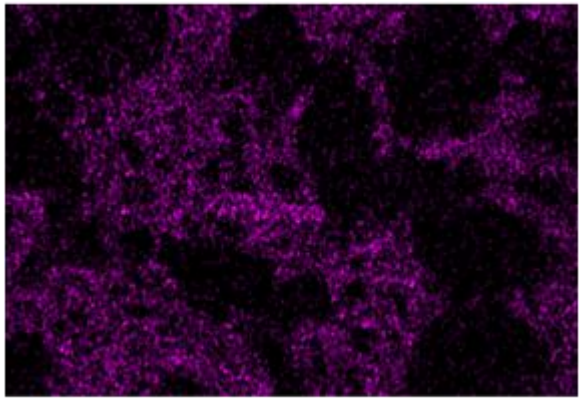
50µm

Al Kα1



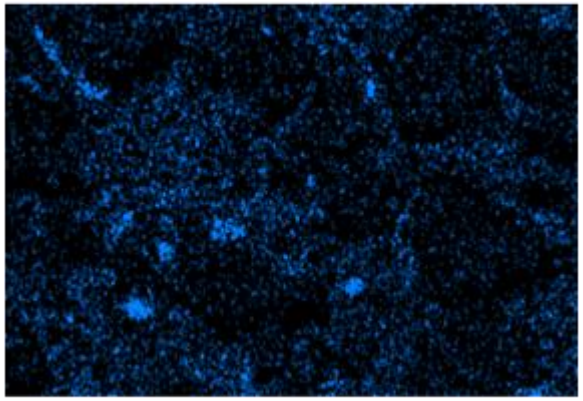
50µm

K Kα1



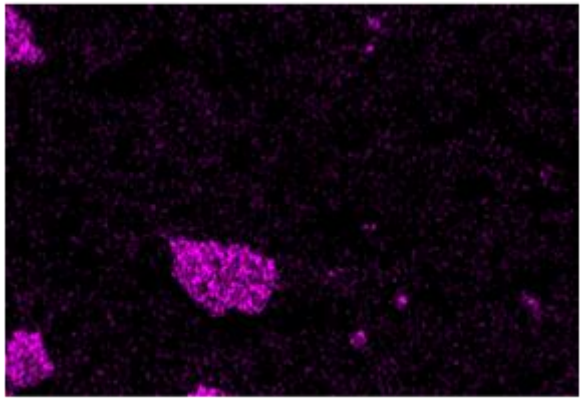
50µm

Mg Kα1_2



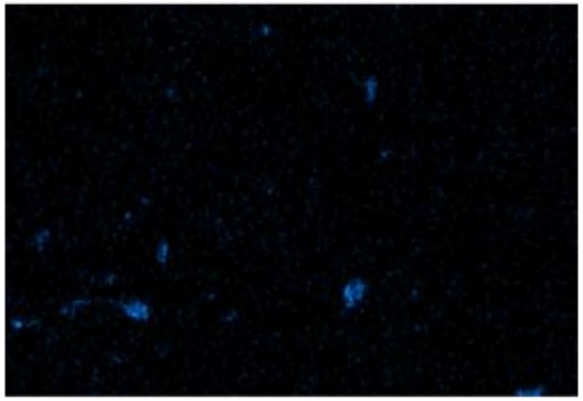
50µm

Na Kα1_2



50µm

Ca Kα1



50µm

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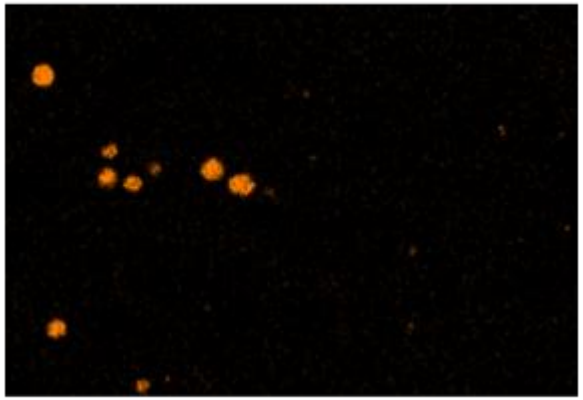
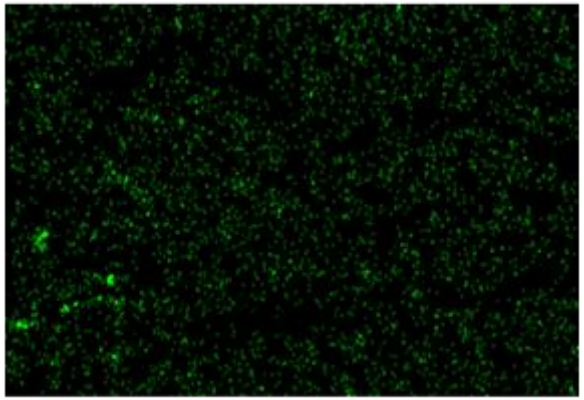
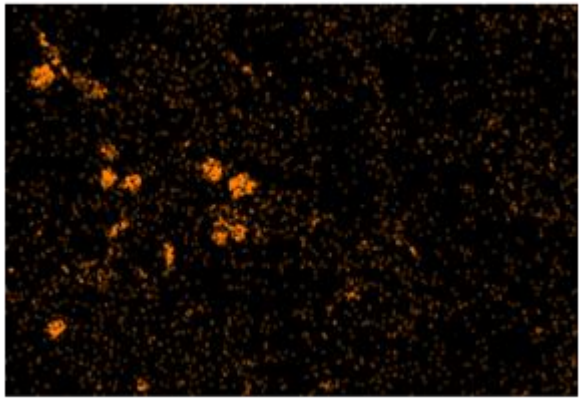
S Kα1



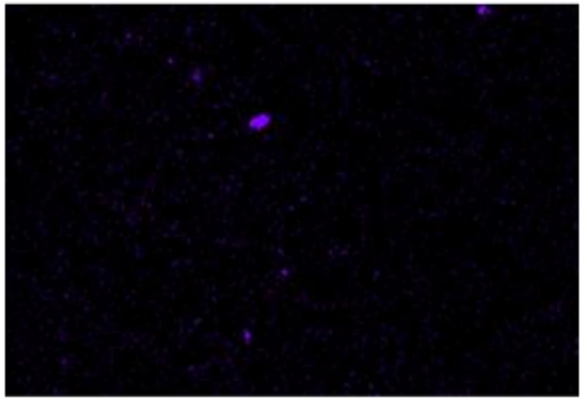
P Kα1



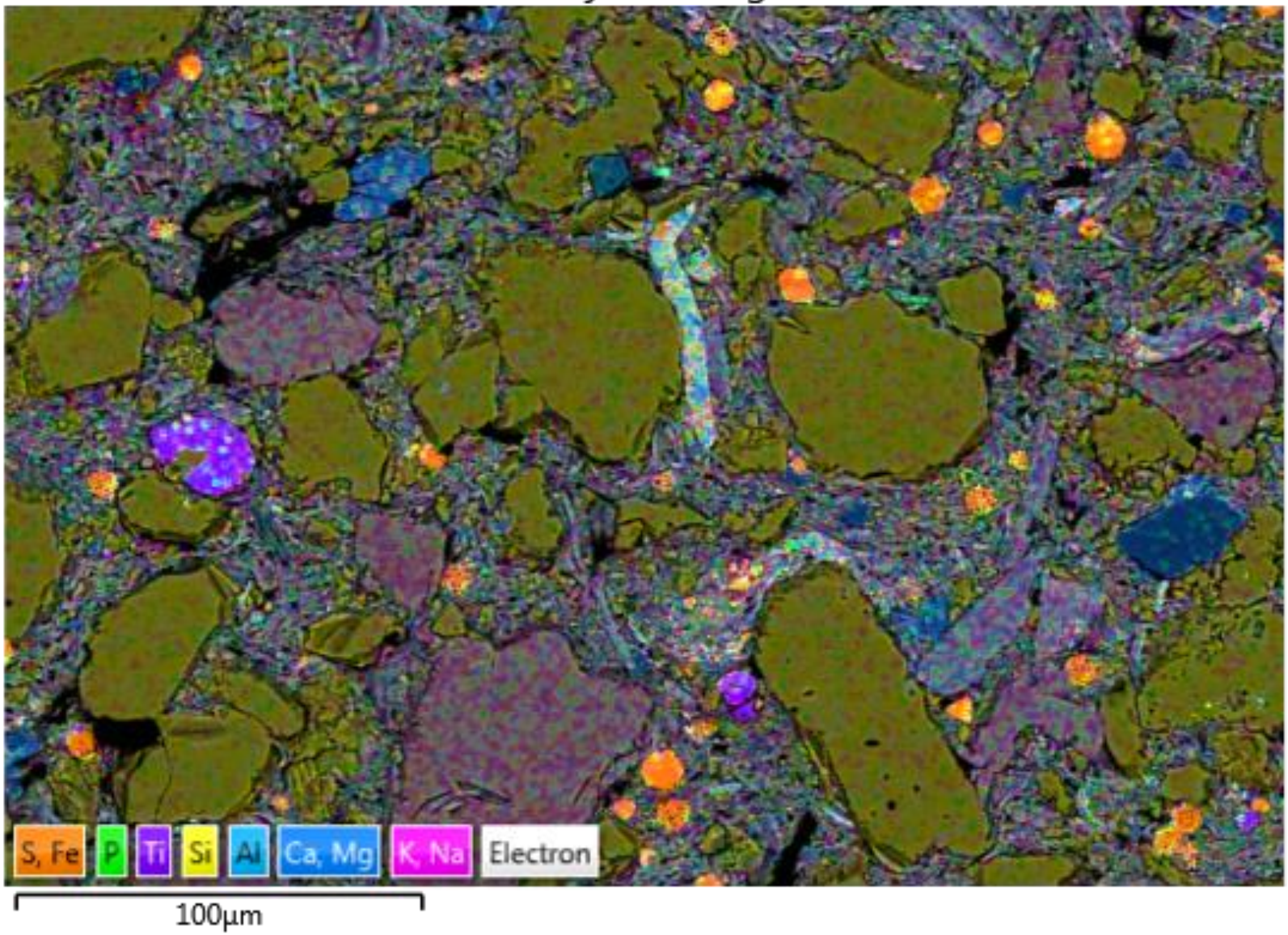
Fe Kα1



Ti Kα1



EDS Layered Image 2



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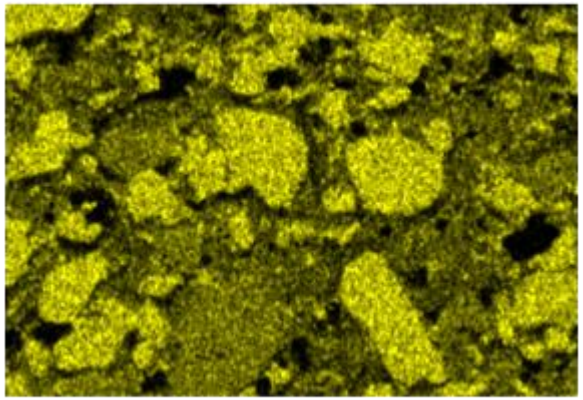
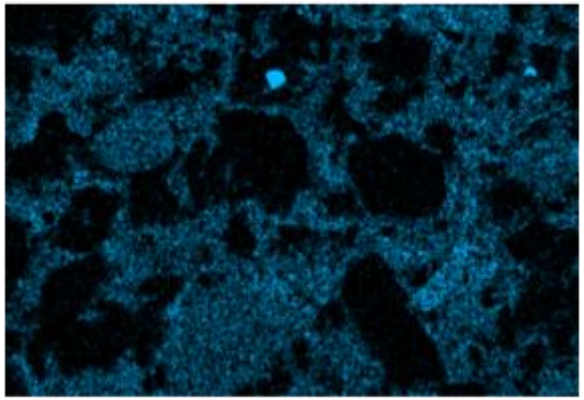
Si Kα1



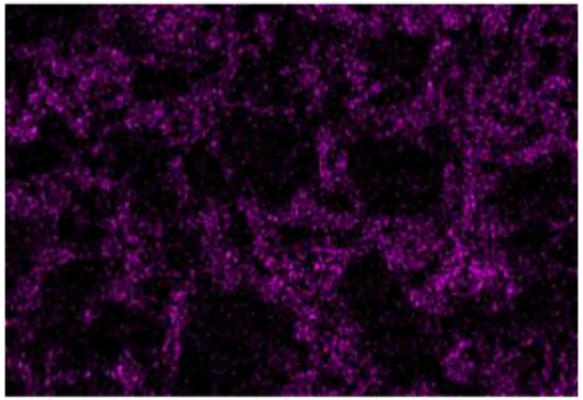
100µm

Al Kα1



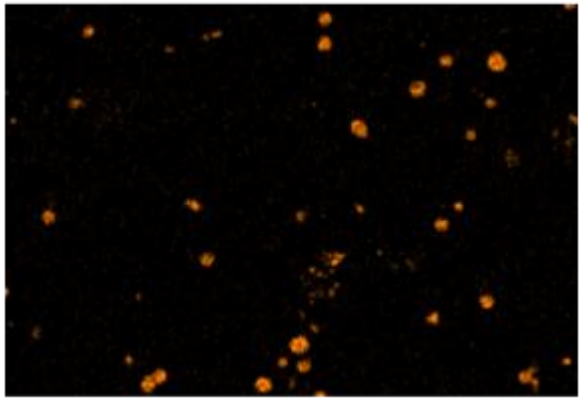
100µm

K Kα1



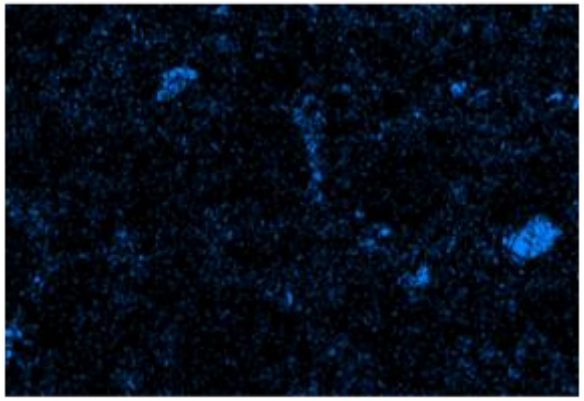
100µm

S Kα1



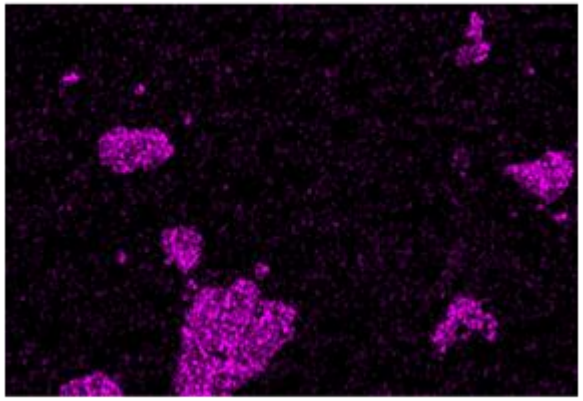
100µm

Mg Kα1_2



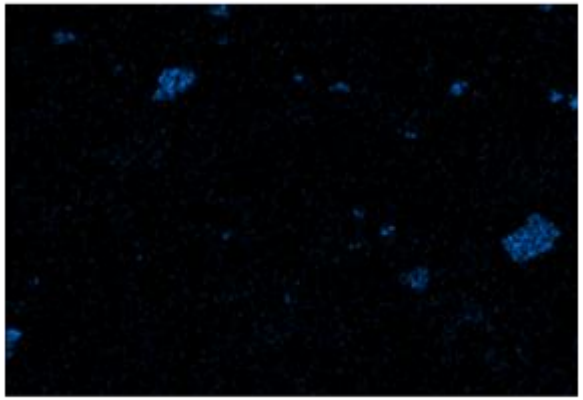
100µm

Na Kα1_2



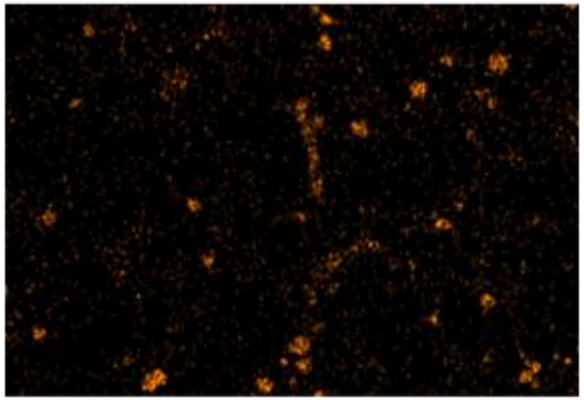
100µm

Ca Kα1



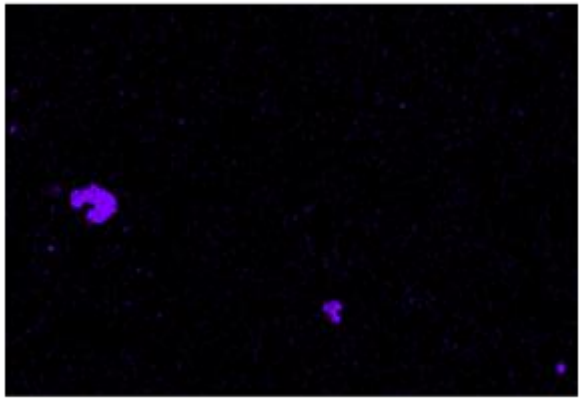
100µm

Fe Kα1



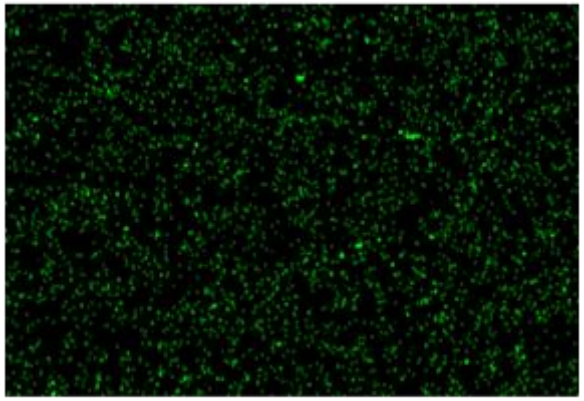
100µm

Ti Kα1



100µm

P Kα1



100µm

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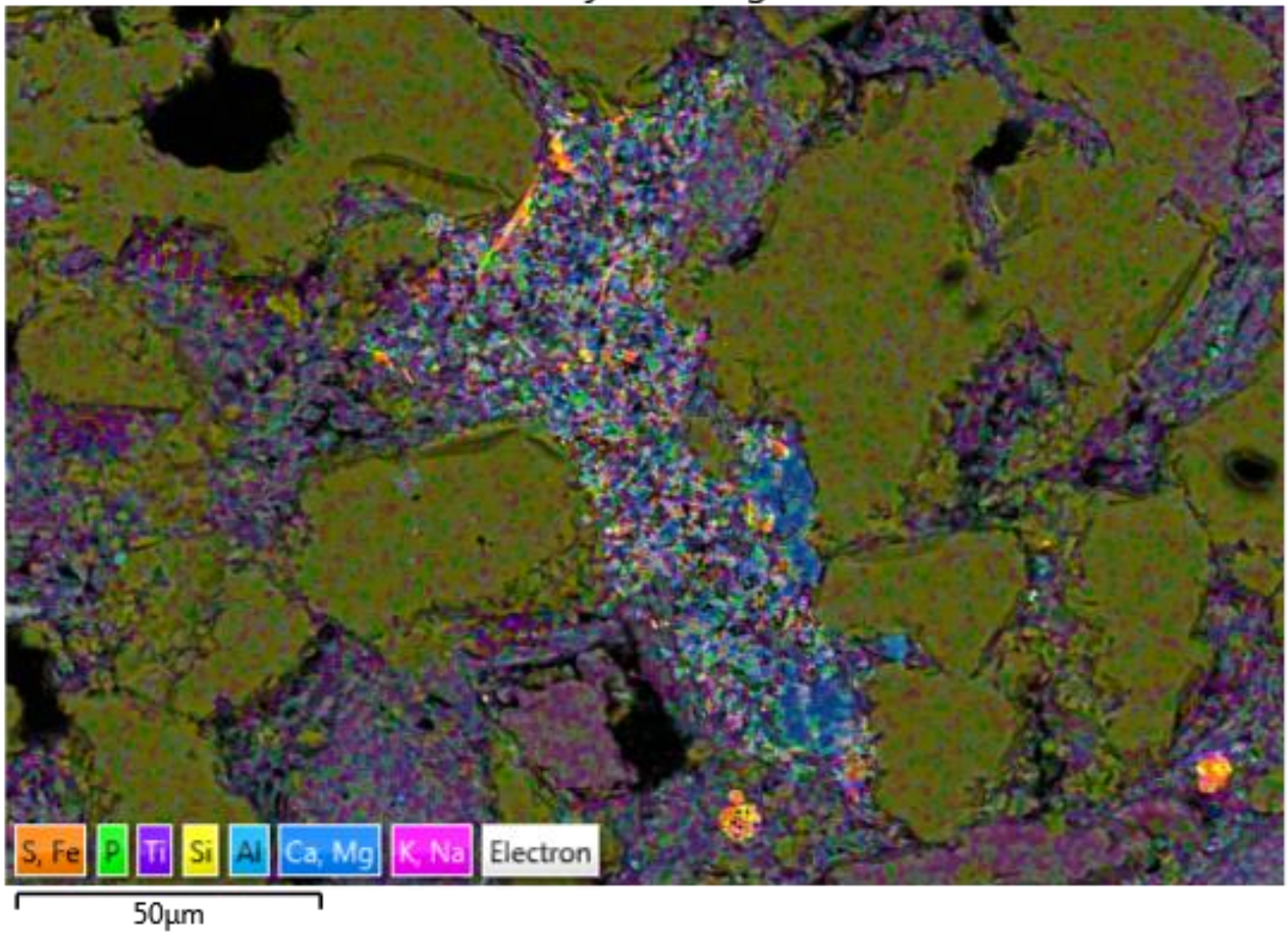
EDS Layered Image 3



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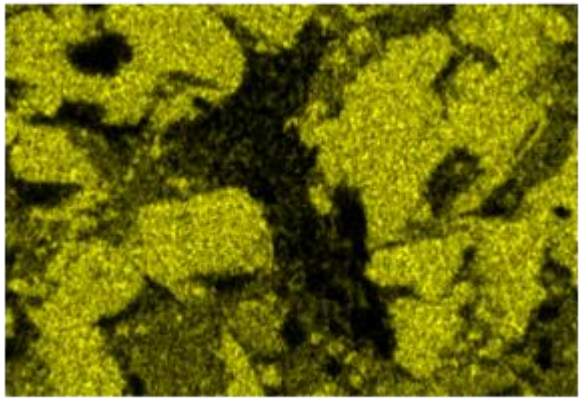
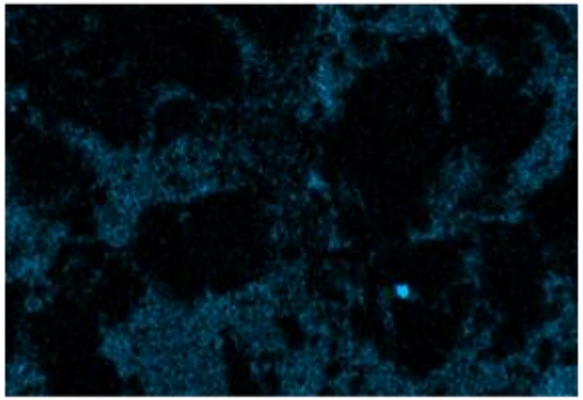
Si Kα1



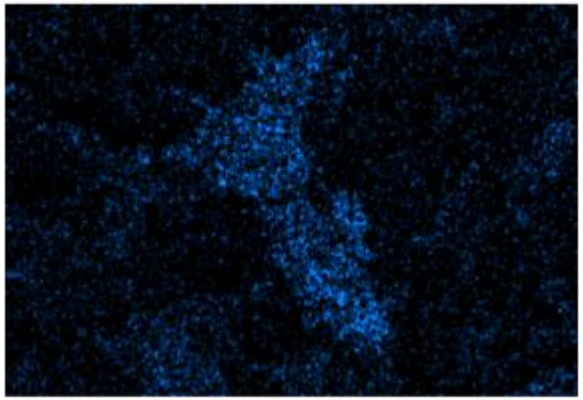
50µm

Al Kα1



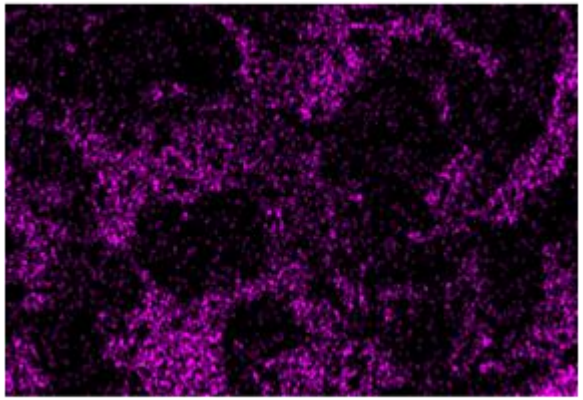
50µm

Mg Kα1_2



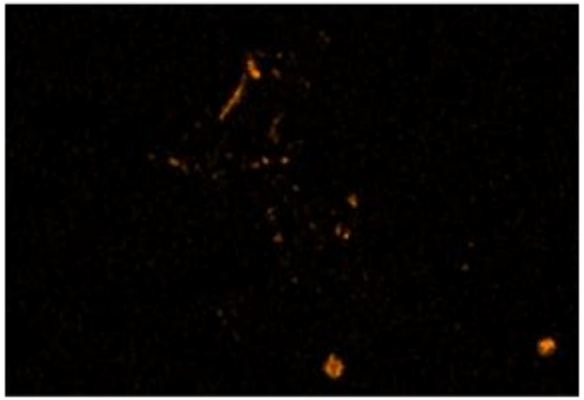
50µm

K Kα1



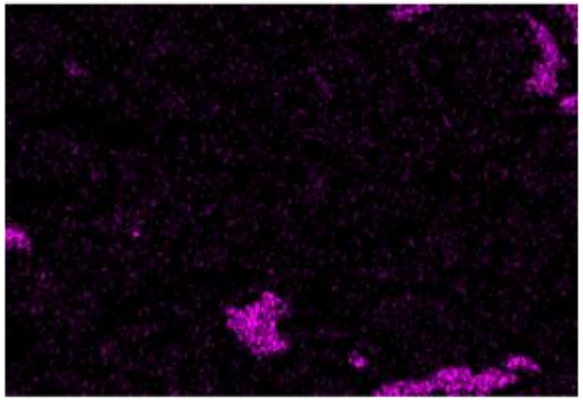
50µm

S Kα1



50µm

Na Kα1_2



50µm

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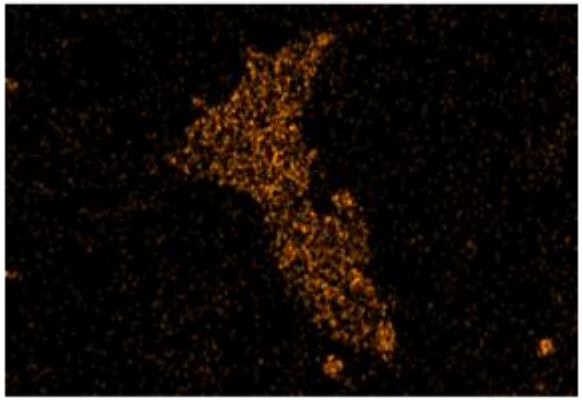
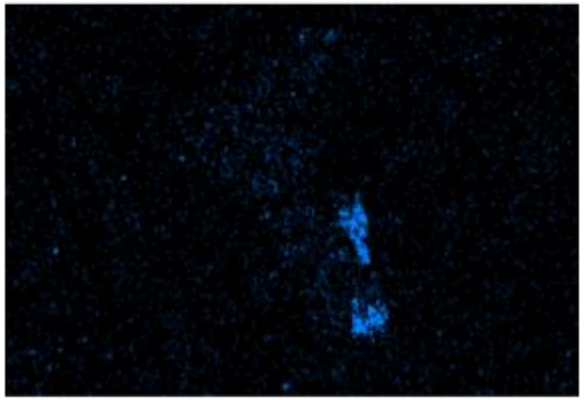
Fe Kα1



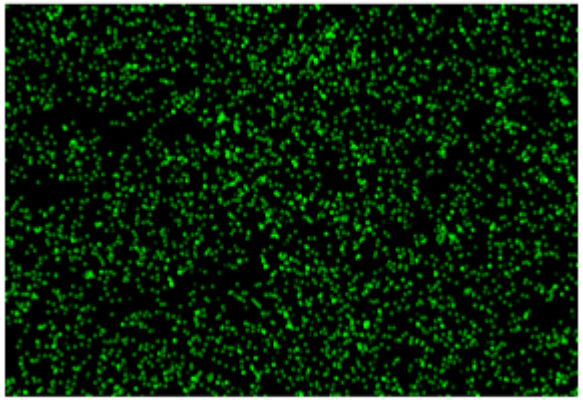
50µm

Ca Kα1



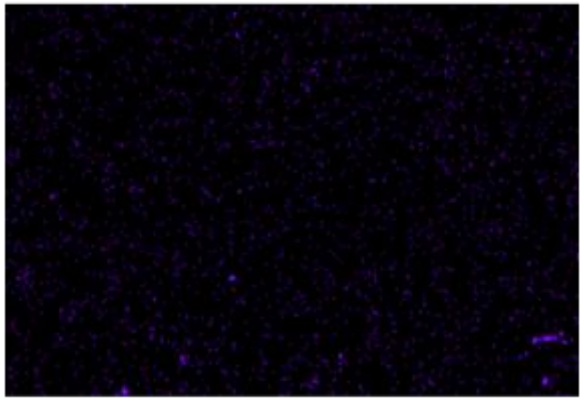
50µm

P Kα1



50µm

Ti Kα1



50µm

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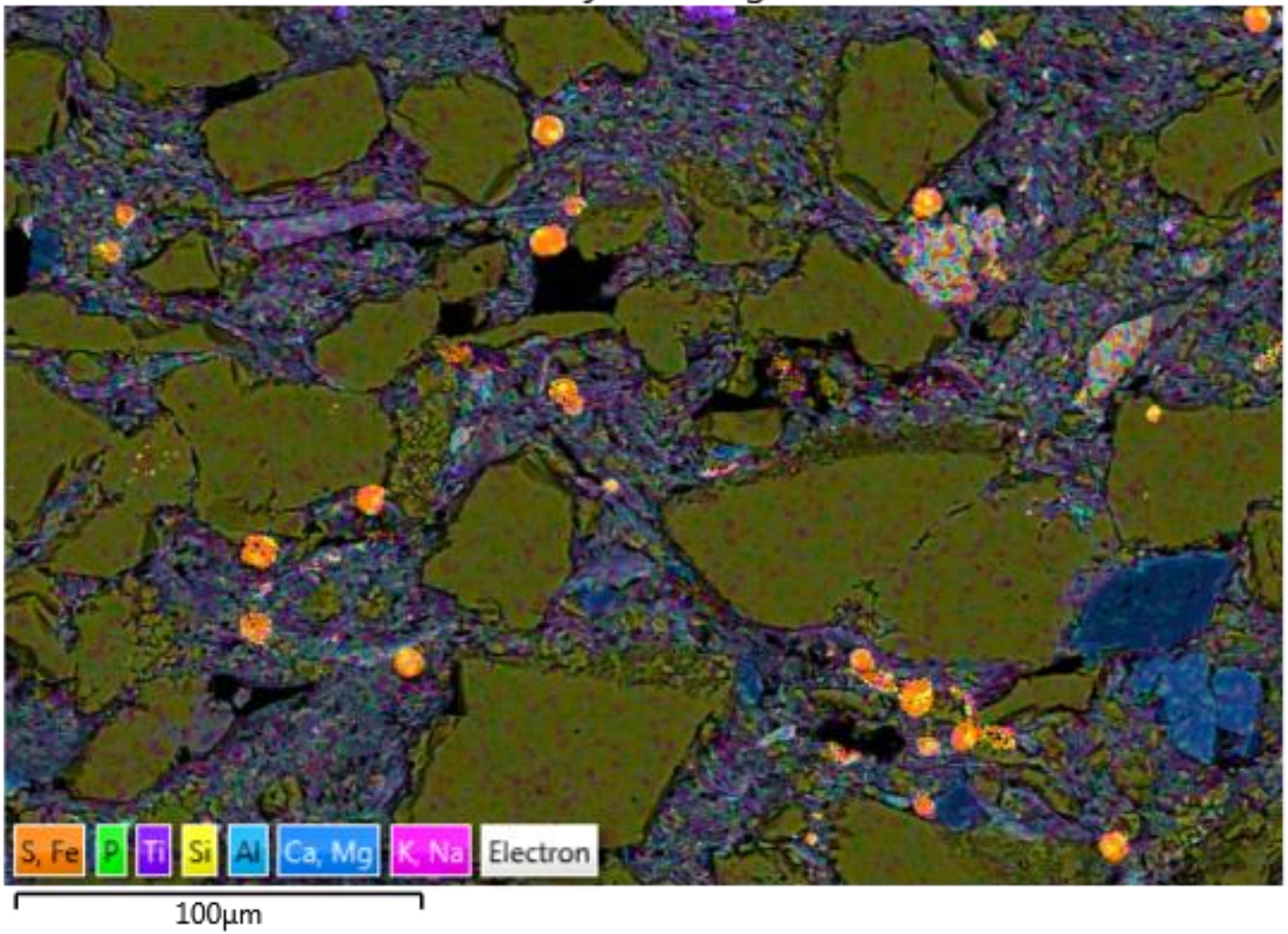
EDS Layered Image 4



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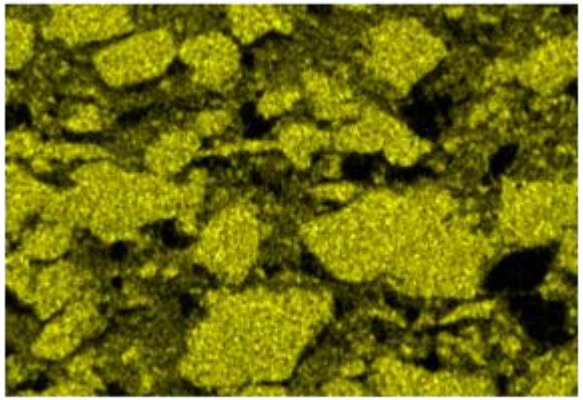
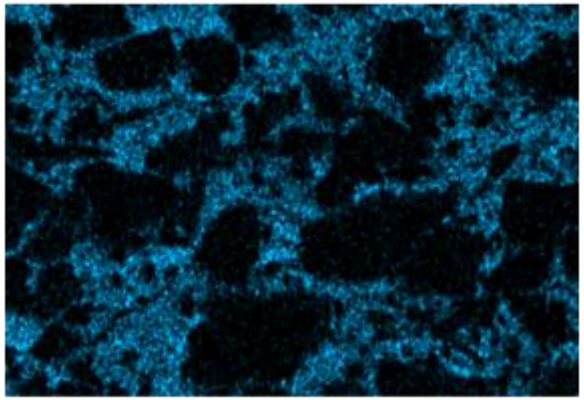
Si Kα1



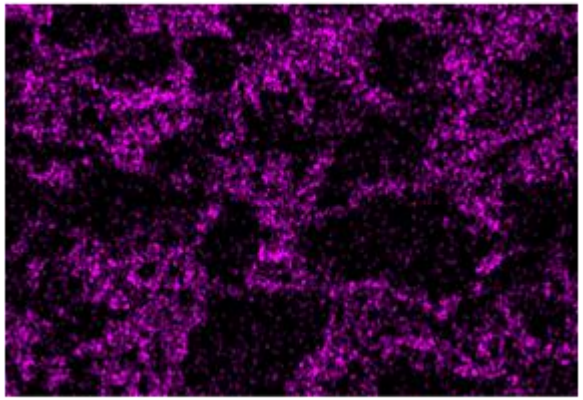
100µm

Al Kα1



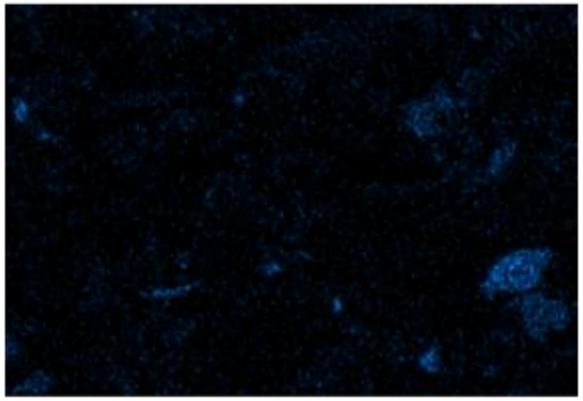
100µm

K Kα1



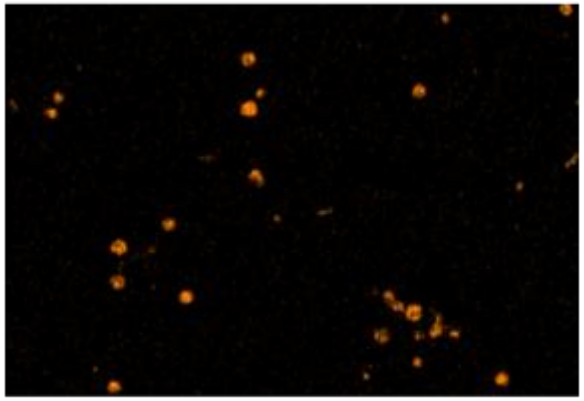
100µm

Mg Kα1_2



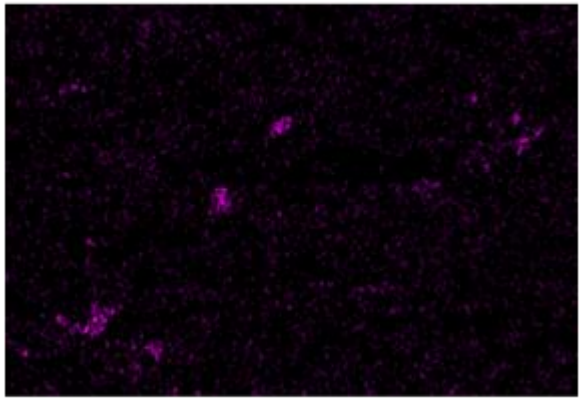
100µm

S Kα1



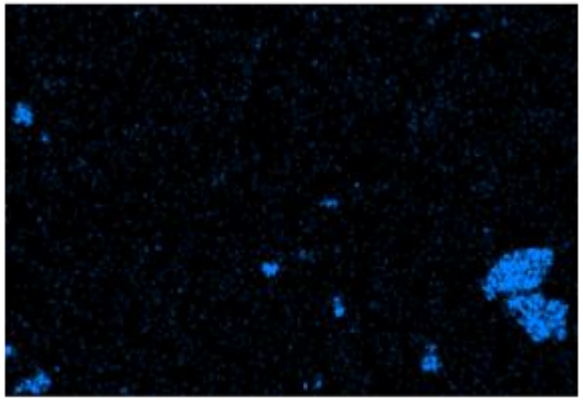
100µm

Na Kα1_2



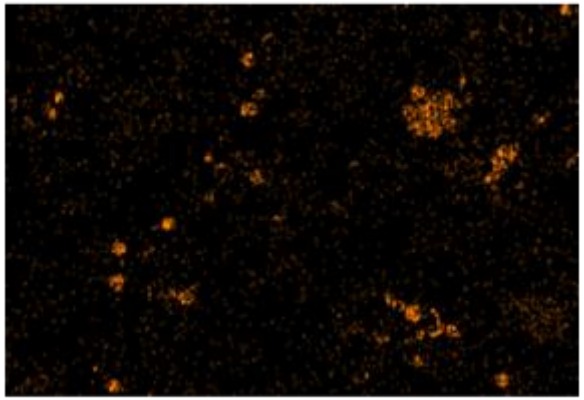
100µm

Ca Kα1



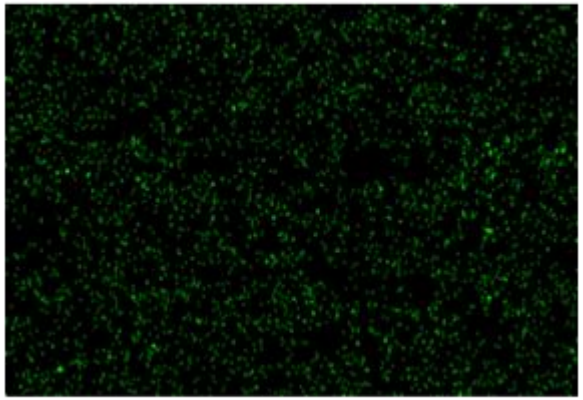
100µm

Fe Kα1



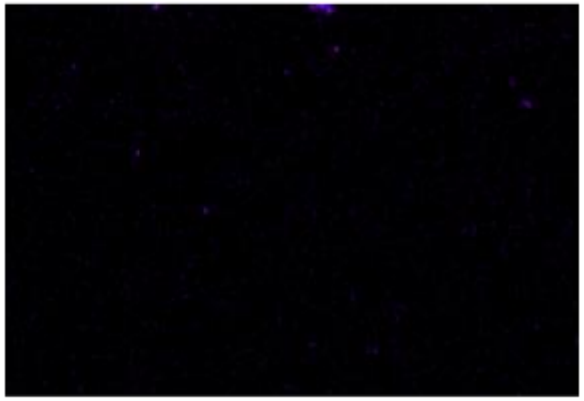
100µm

P Kα1



100µm

Ti Kα1



100µm

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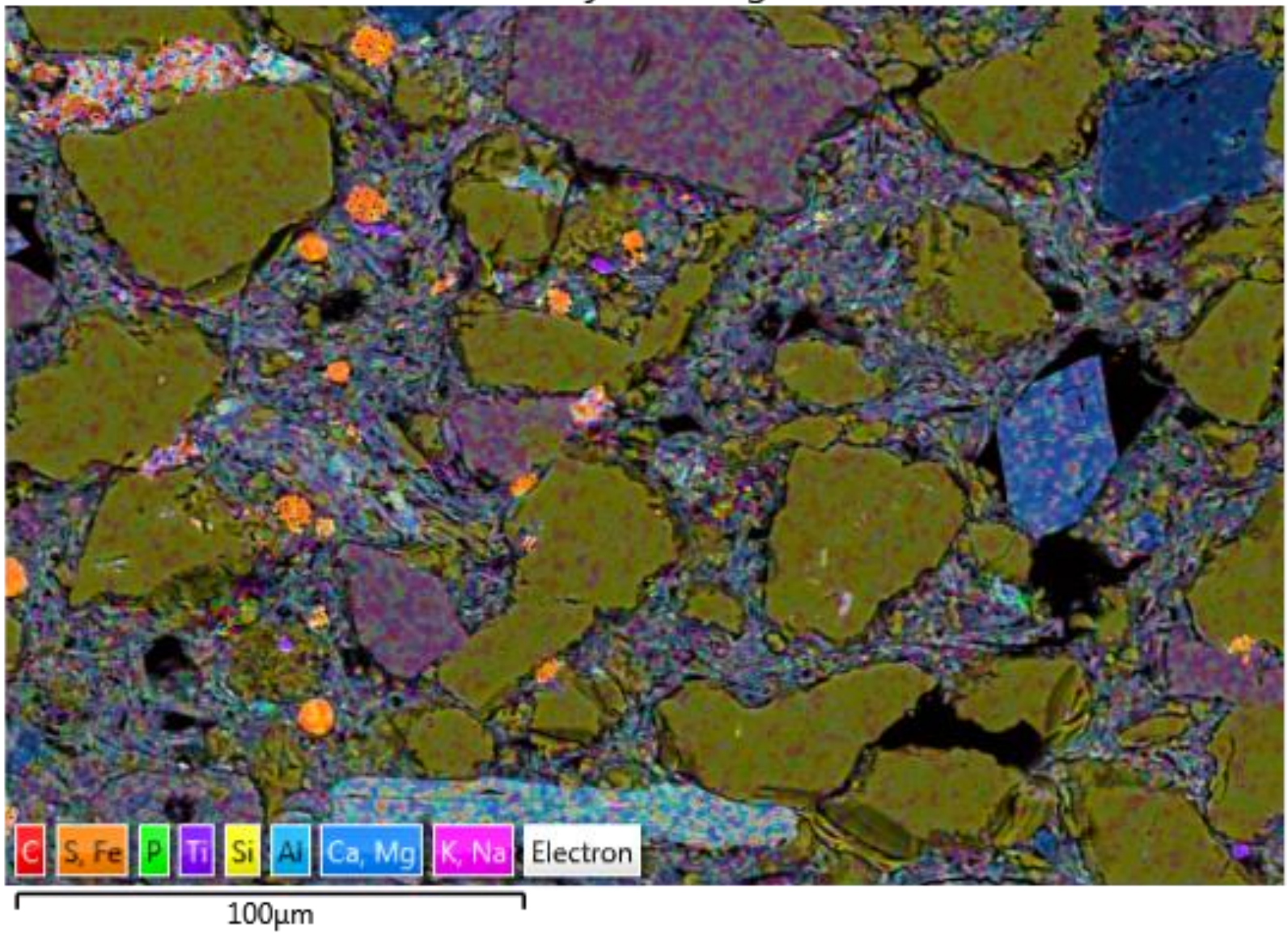

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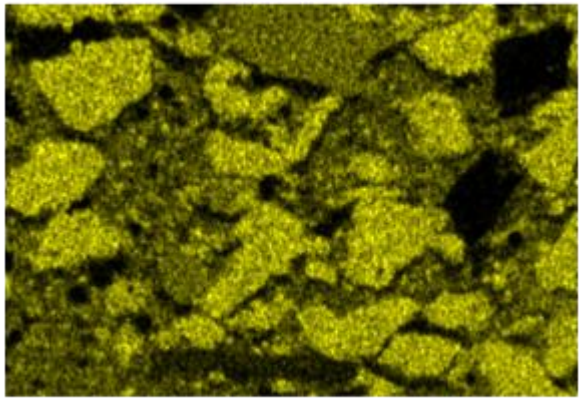
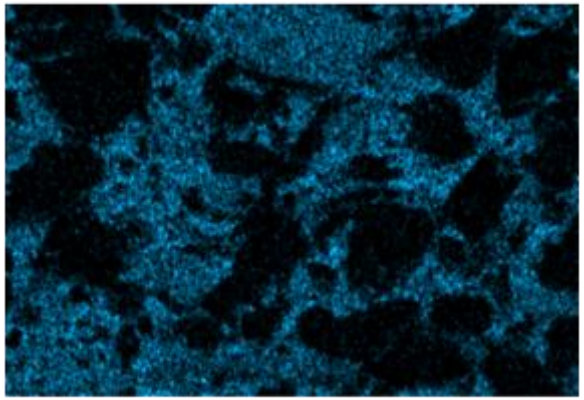
Si Kα1



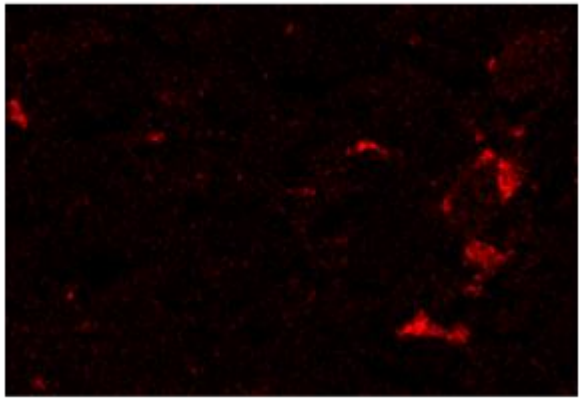
100µm

Al Kα1



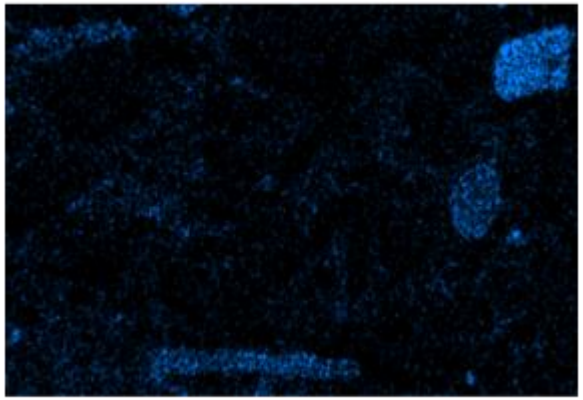
100µm

C Kα1_2



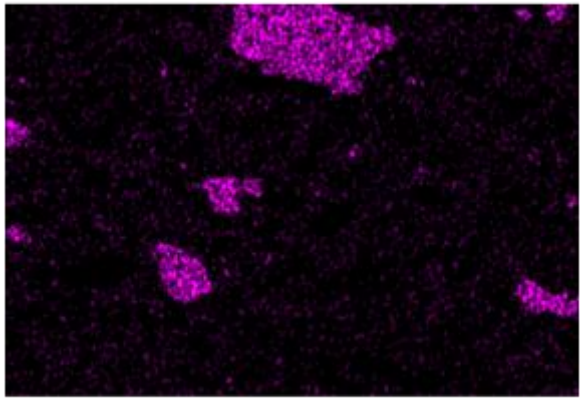
100µm

Mg Kα1_2



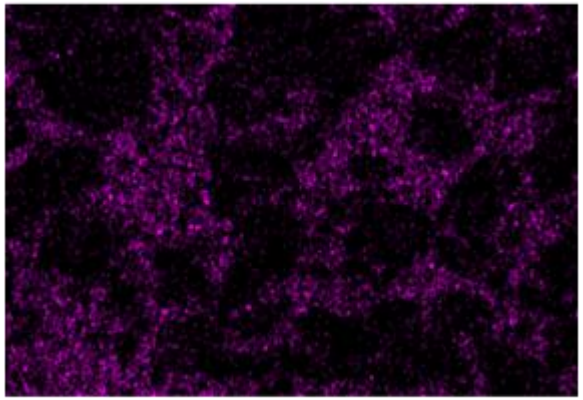
100µm

Na Kα1_2



100µm

K Kα1



100µm

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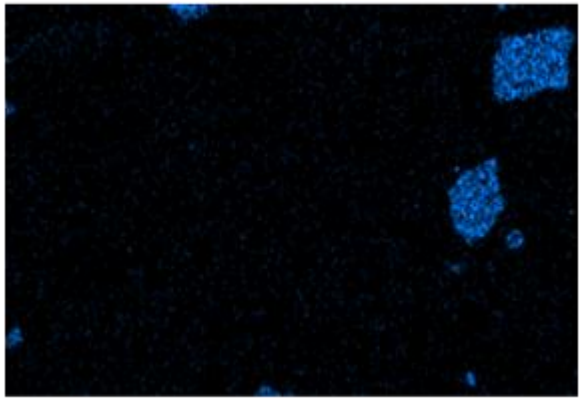
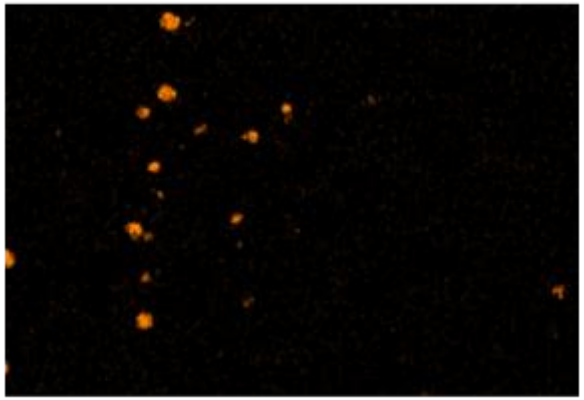
Ca Kα1



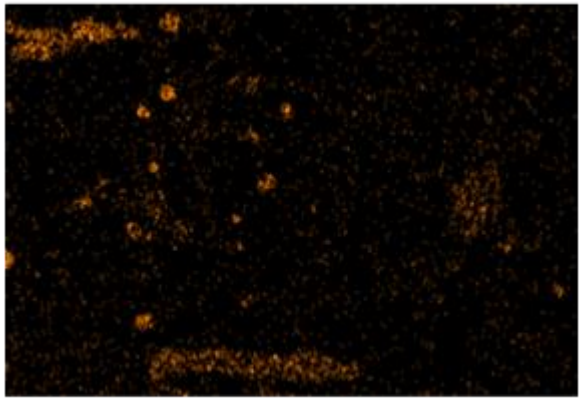
100µm

S Kα1



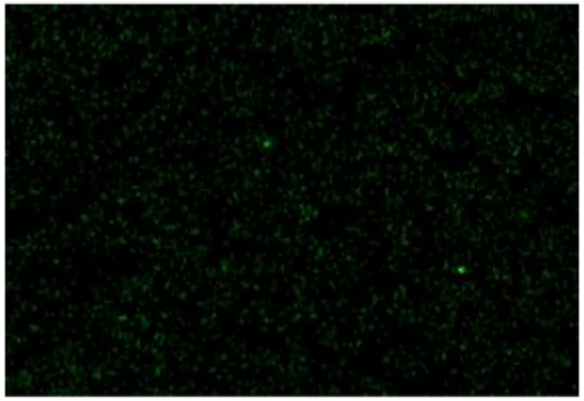
100µm

Fe Kα1



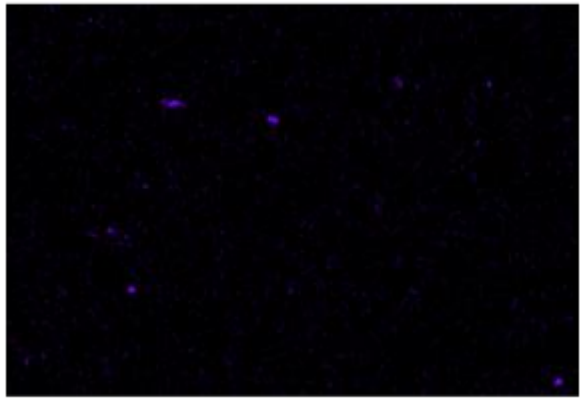
100µm

P Kα1



100µm

Ti Kα1



100µm

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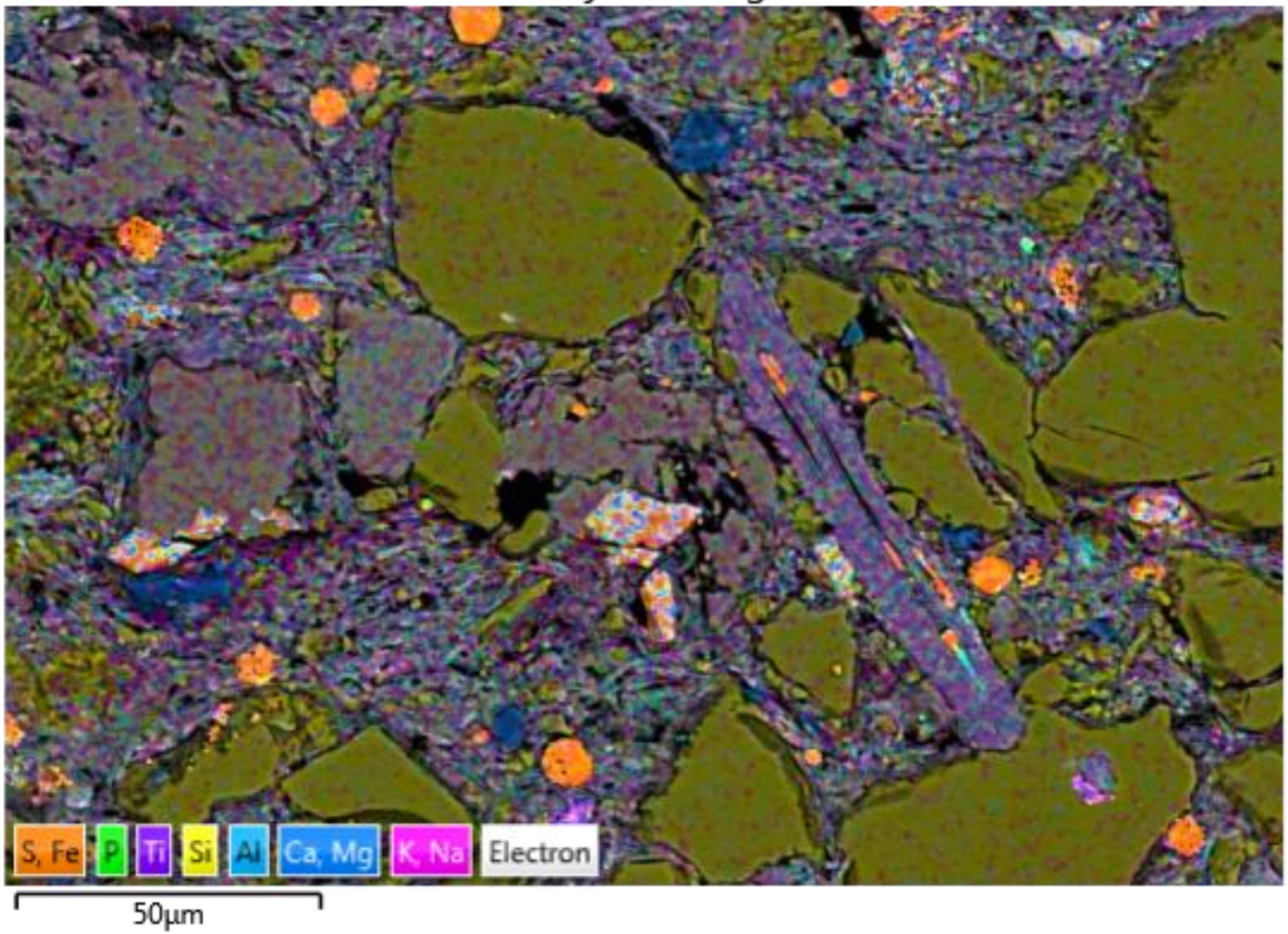
EDS Layered Image 6



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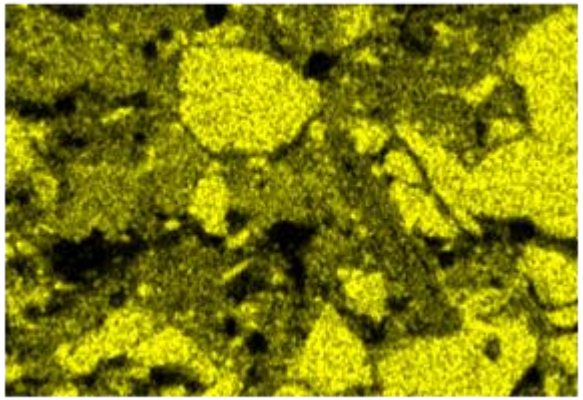
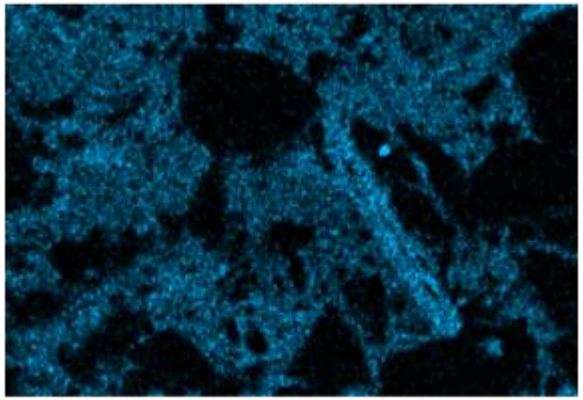
Si Kα1



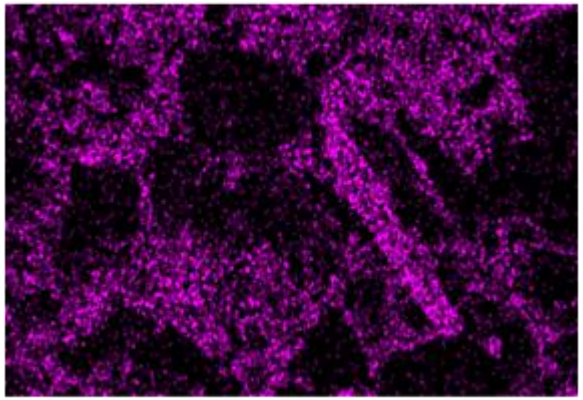
50µm

Al Kα1



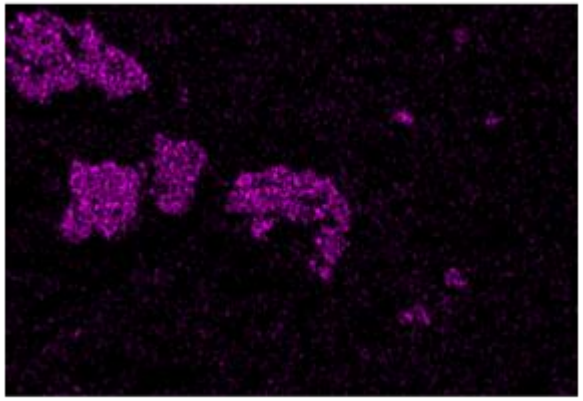
50µm

K Kα1



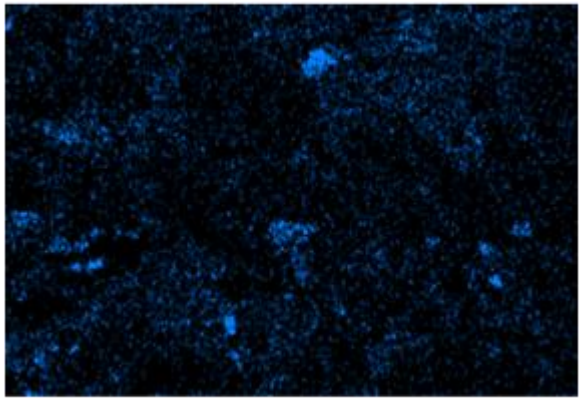
50µm

Na Kα1_2



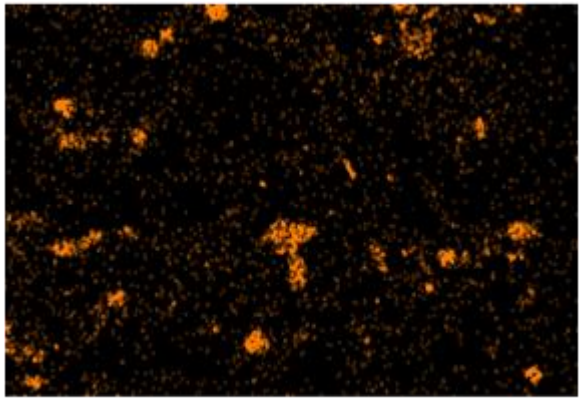
50µm

Mg Kα1_2



50µm

Fe Kα1



50µm

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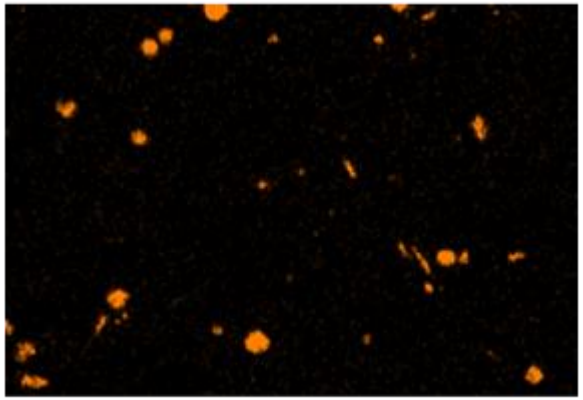
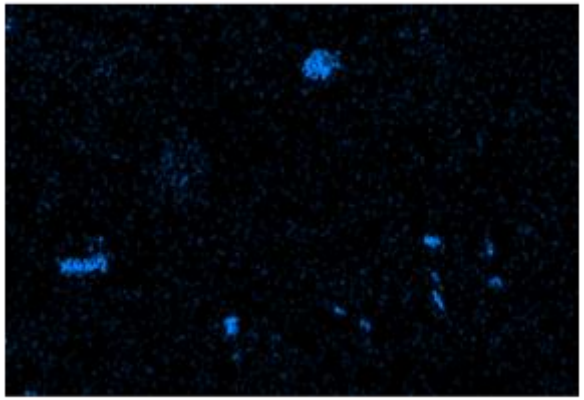
S Kα1



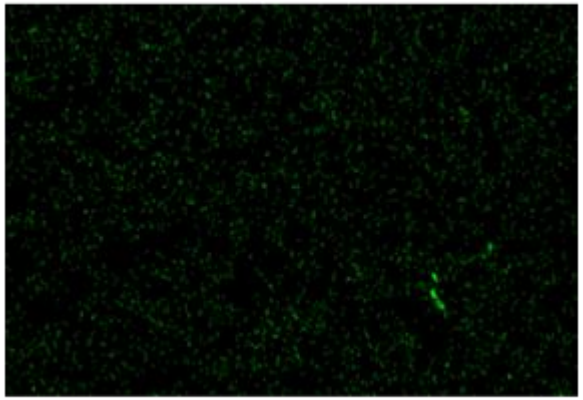
50µm

Ca Kα1



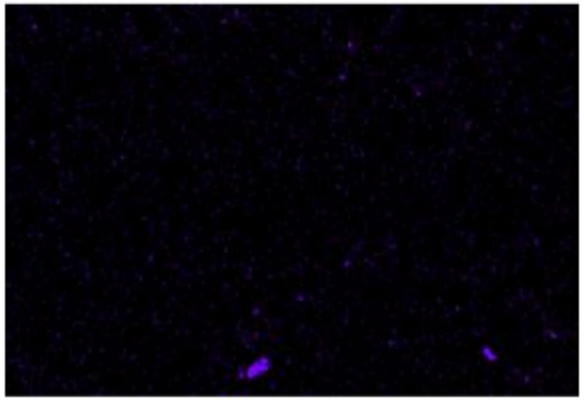
50µm

P Kα1



50µm

Ti Kα1



50µm

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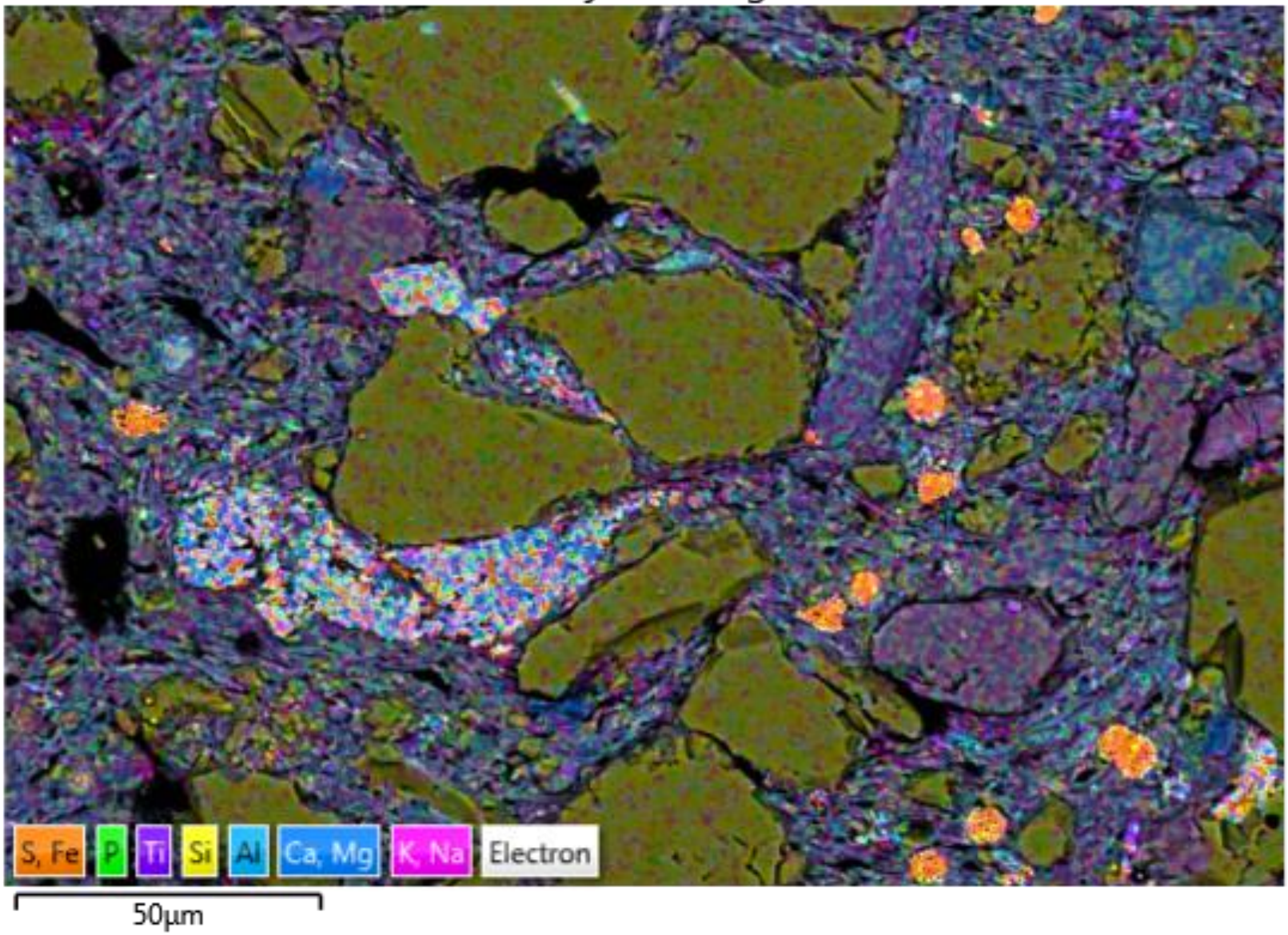
EDS Layered Image 7



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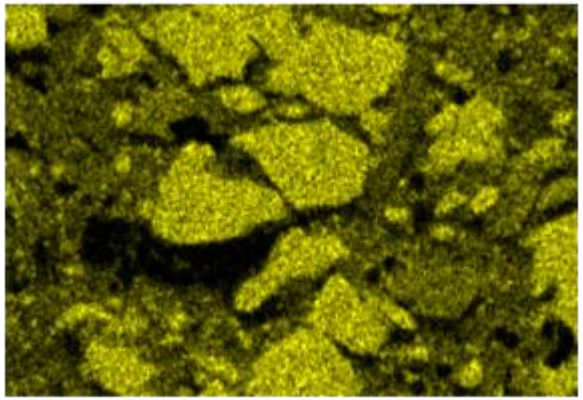
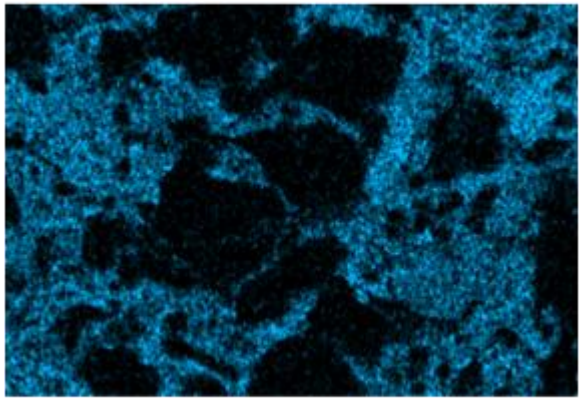
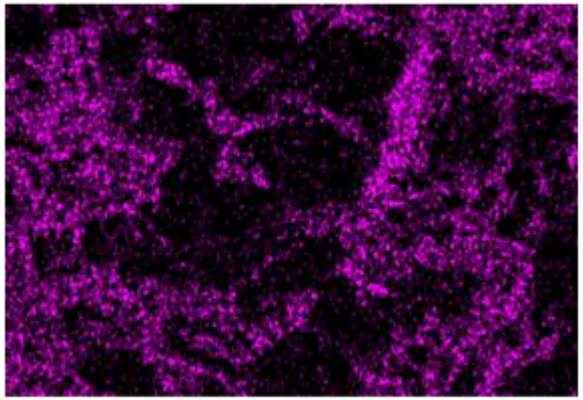
Si Kα1



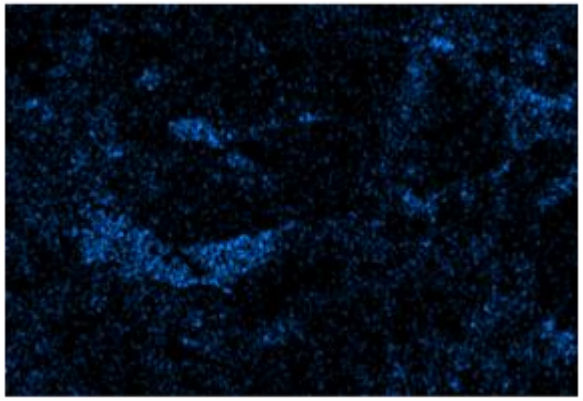
Al Kα1



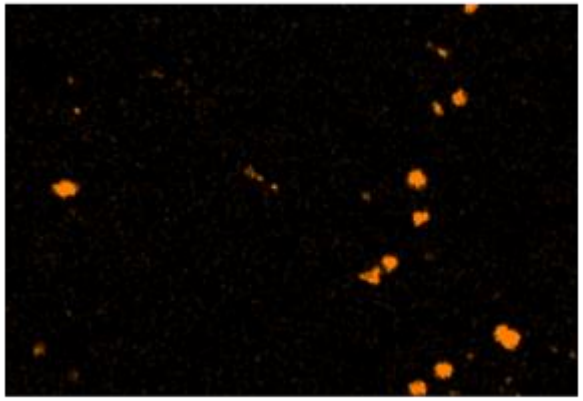
K Kα1



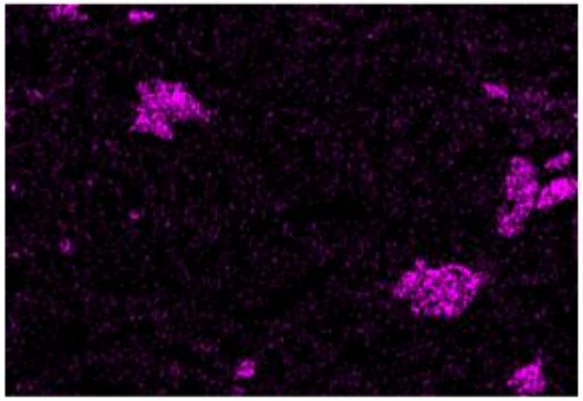
Mg Kα1_2



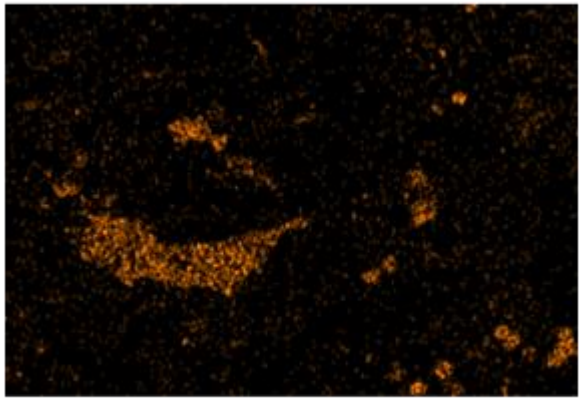
S Kα1



Na Kα1_2

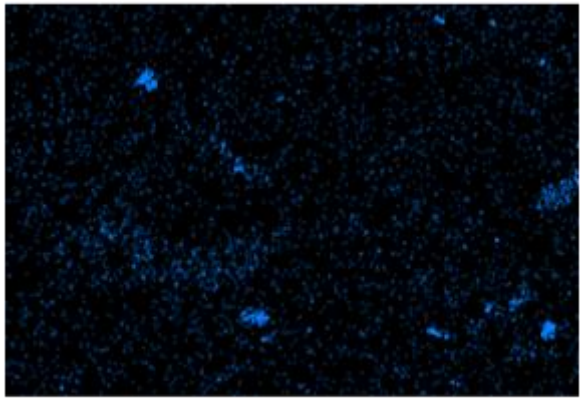


Fe Kα1



50µm

Ca Kα1



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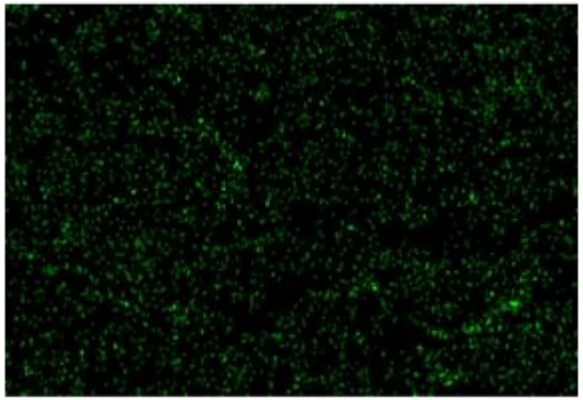
P Kα1



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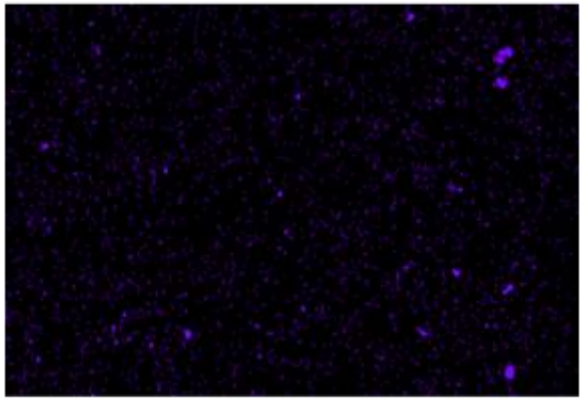
Ti Kα1



50µm

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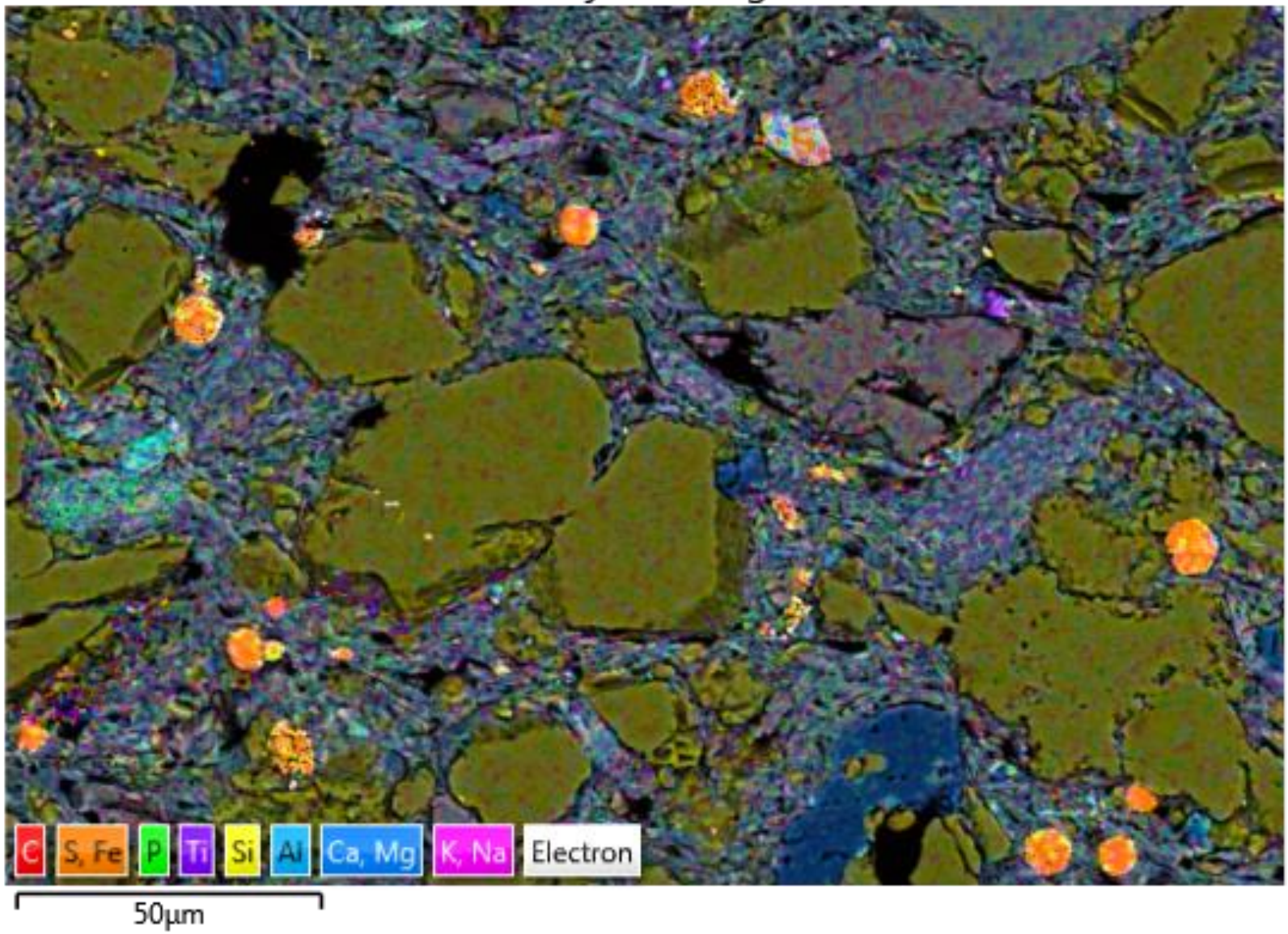
EDS Layered Image 8



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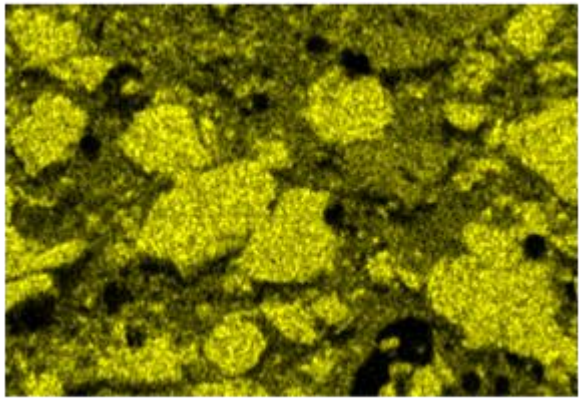
Si Kα1



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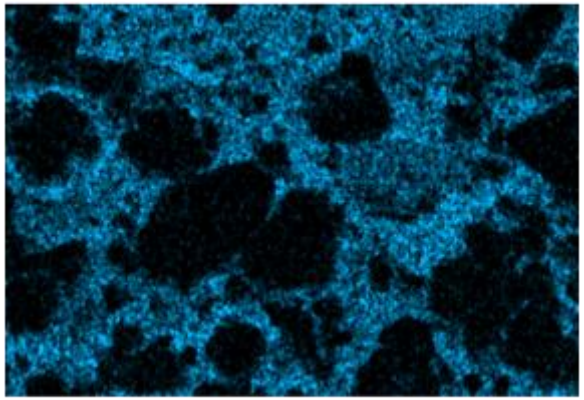
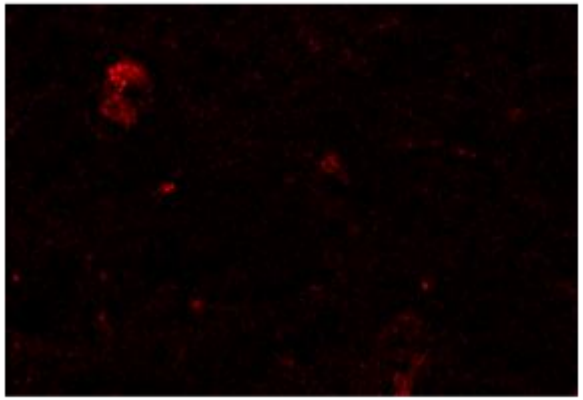
Al Kα1



50µm

C Kα1_2



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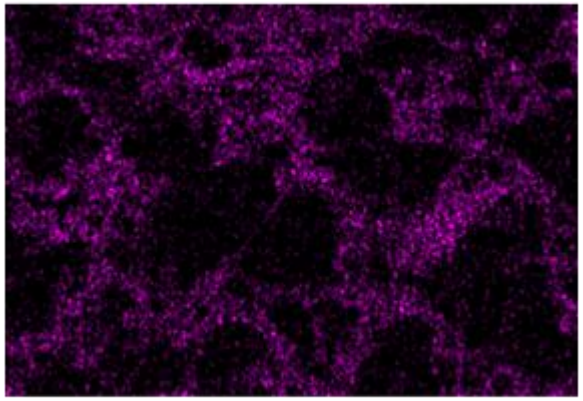
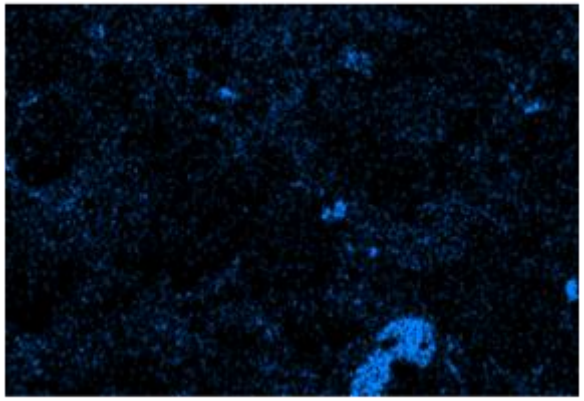
K Kα1



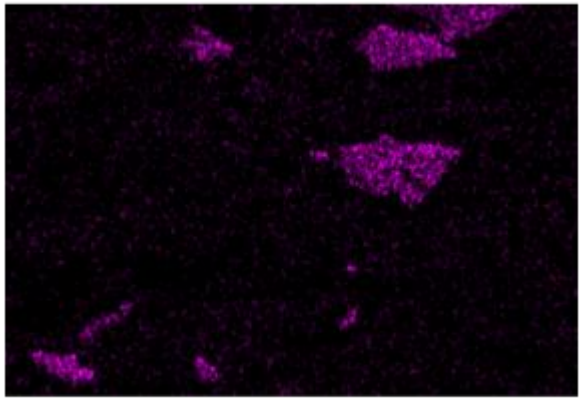
50µm

Mg Kα1_2



50µm

Na Kα1_2



50µm

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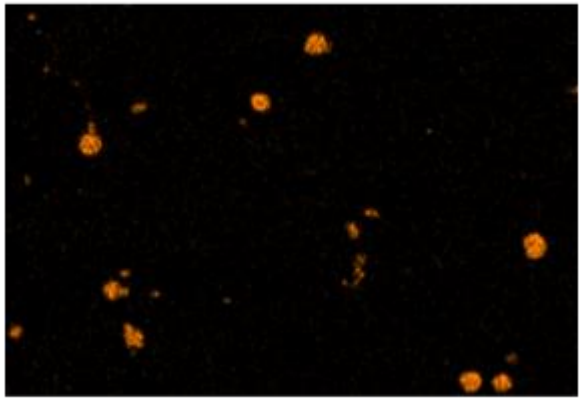
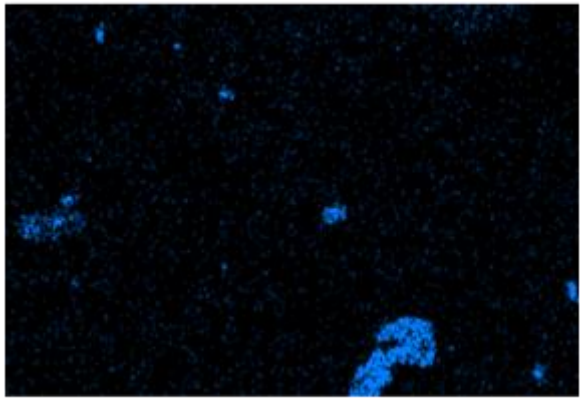
S Kα1



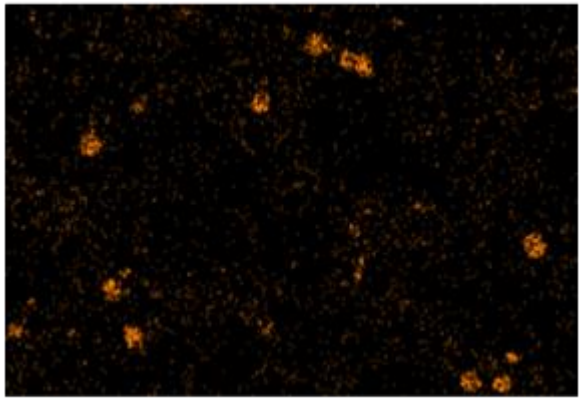
50µm

Ca Kα1



50µm

Fe Kα1



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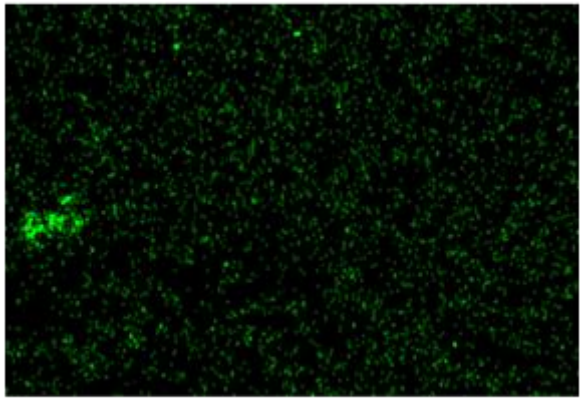
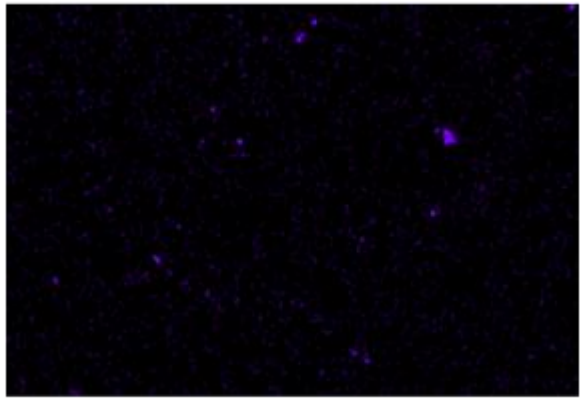
P Kα1



50µm

Ti Kα1



50µm

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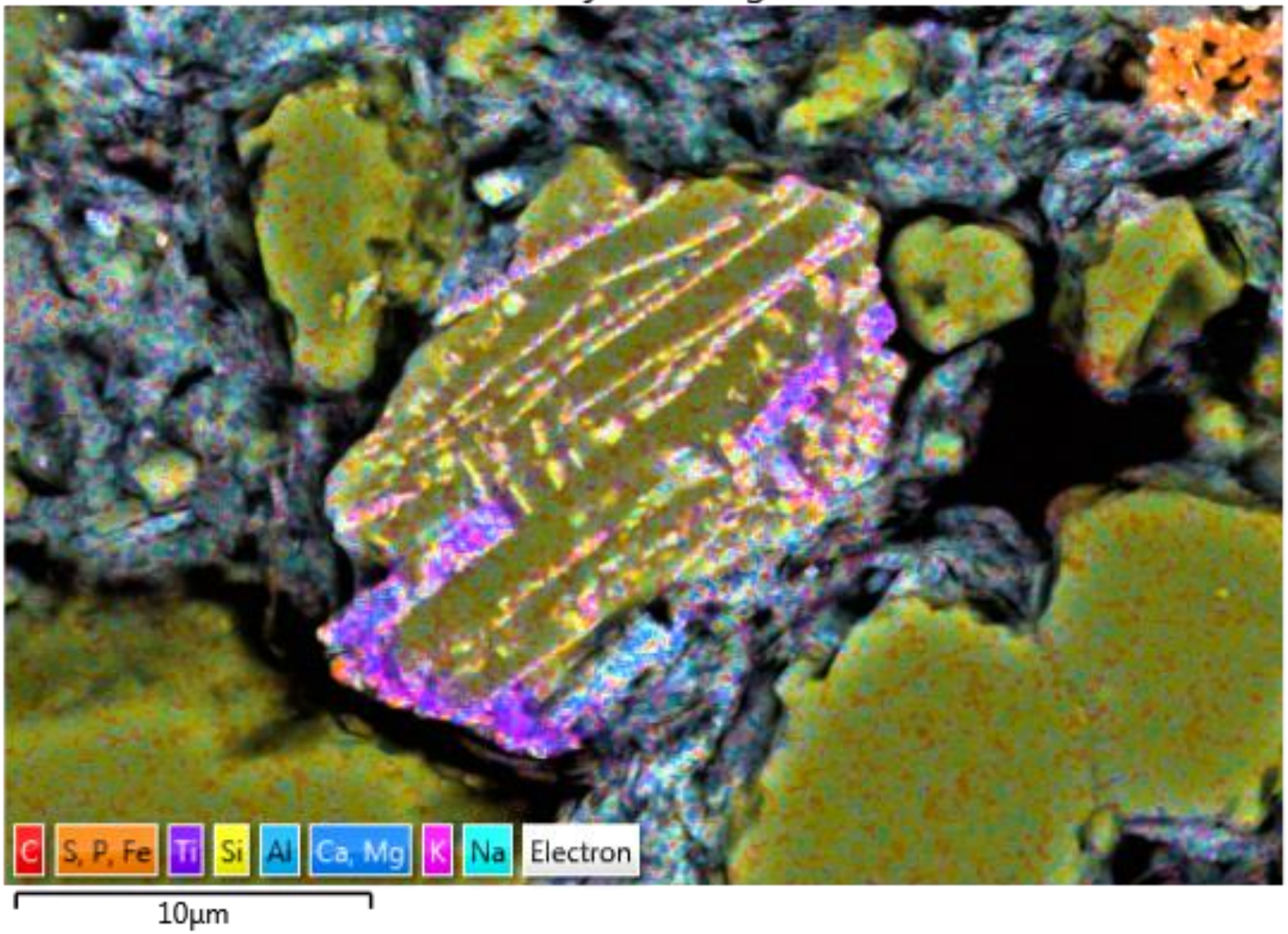
EDS Layered Image 1



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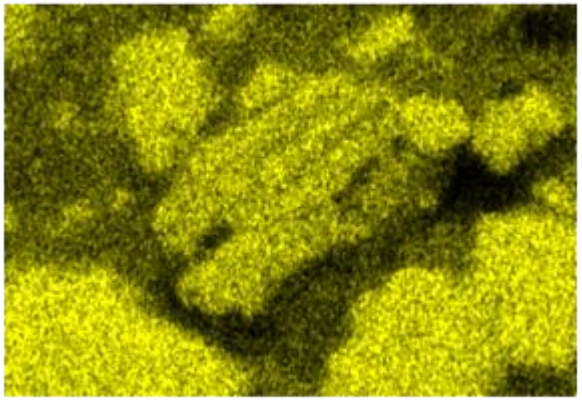
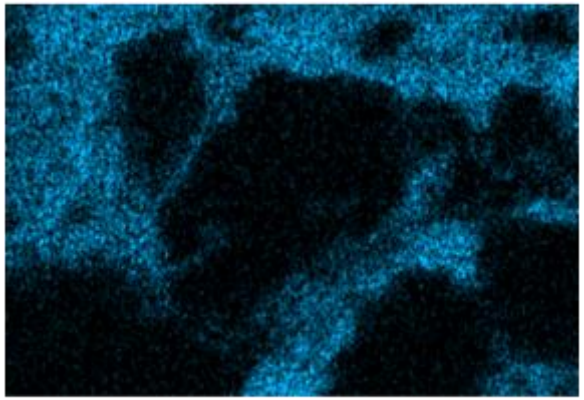
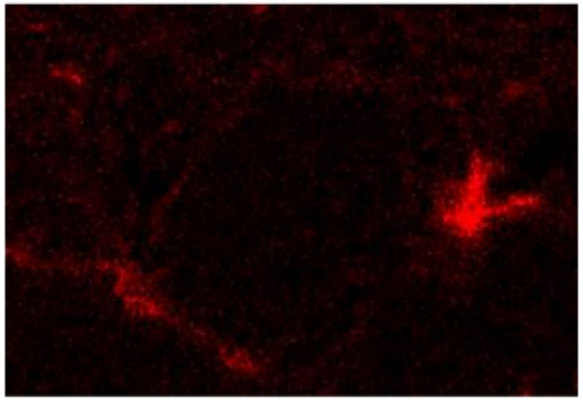
Si Kα1



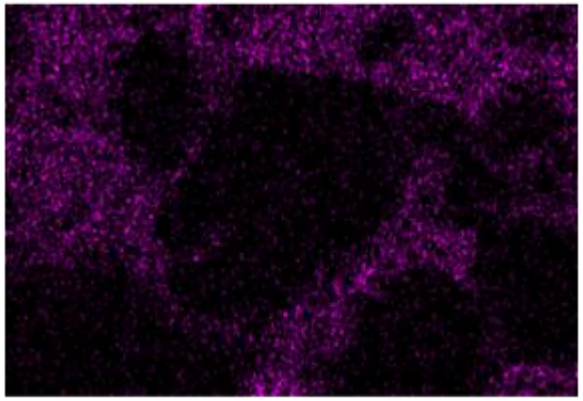
Al Kα1



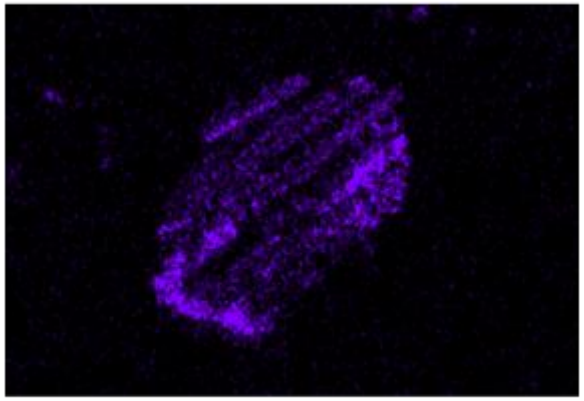
C Kα1_2



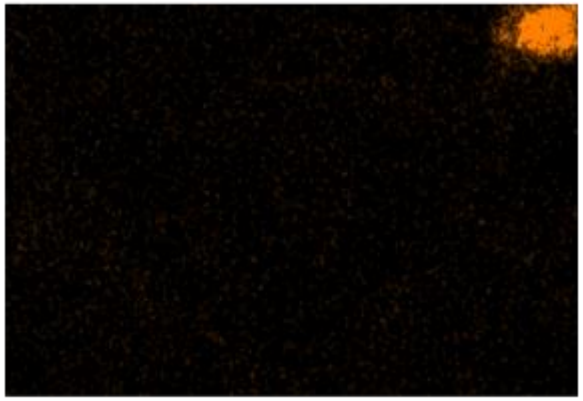
K Kα1



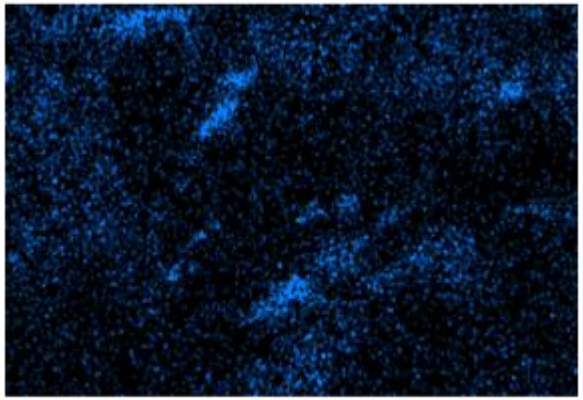
Ti Kα1



S Kα1

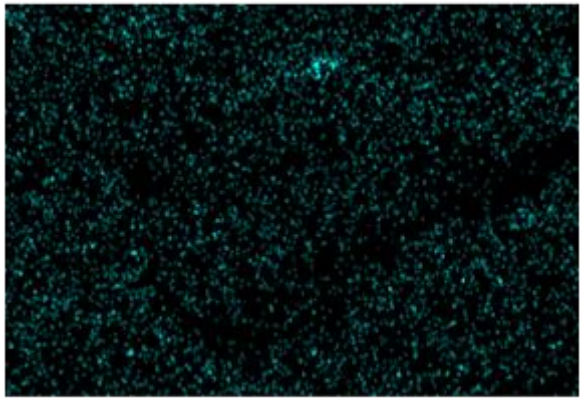


Mg Kα1_2



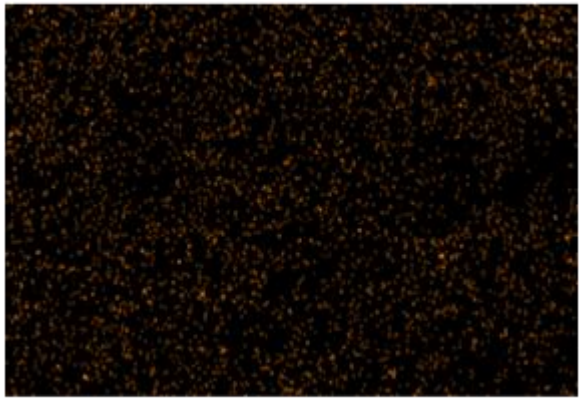
10µm

Na Kα1_2



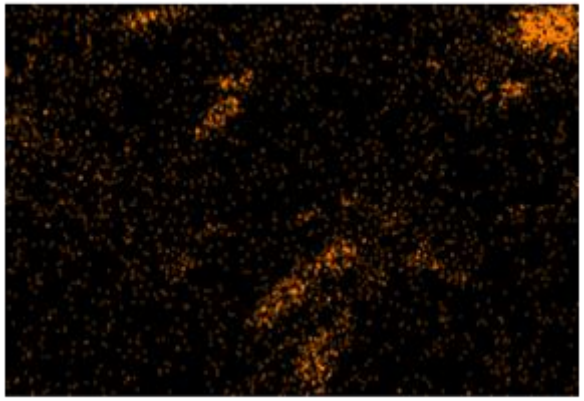
10µm

P Kα1



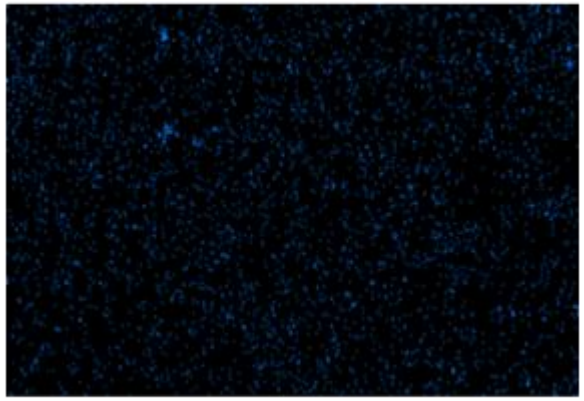
10µm

Fe Kα1



10µm

Ca Kα1



10µm

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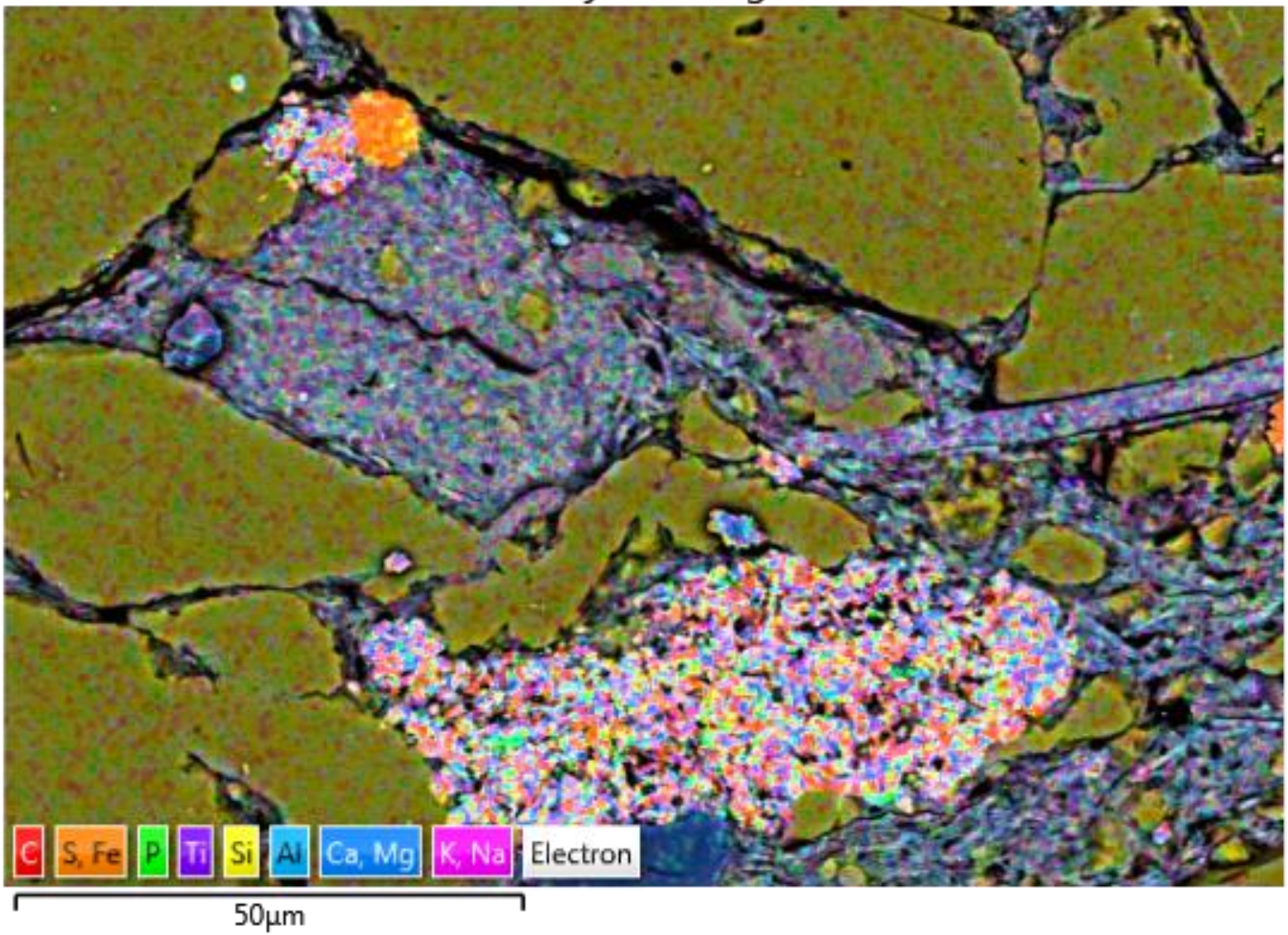
EDS Layered Image 2



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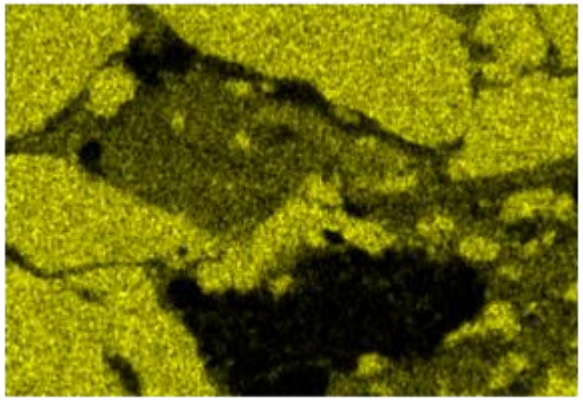
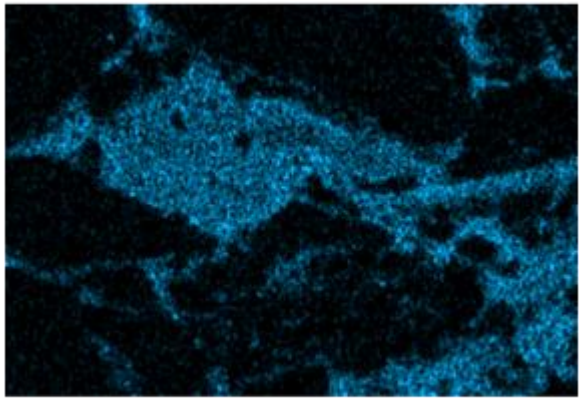
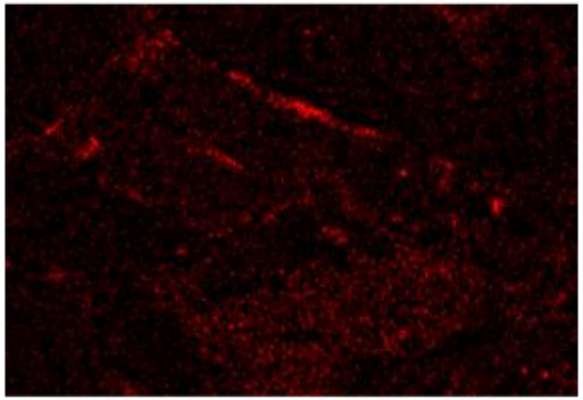
Si Kα1



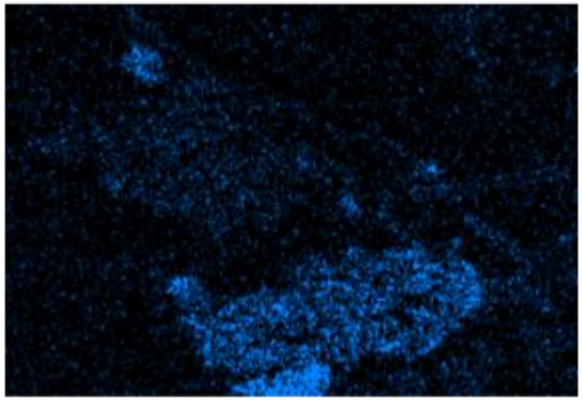
Al Kα1



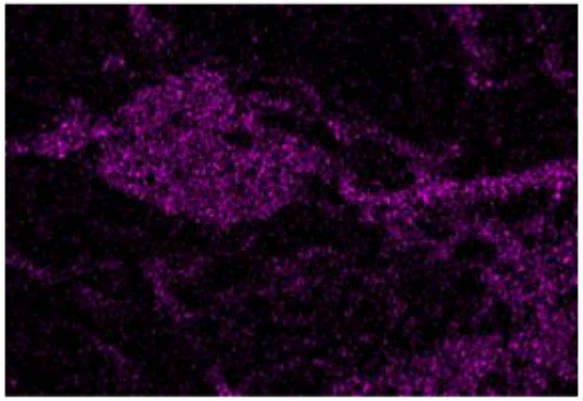
C Kα1_2



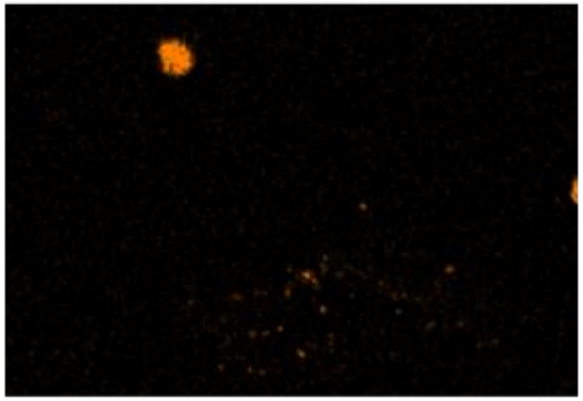
Mg Kα1_2



K Kα1



S Kα1



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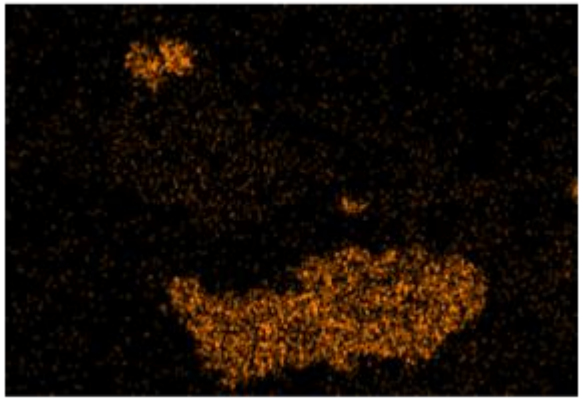
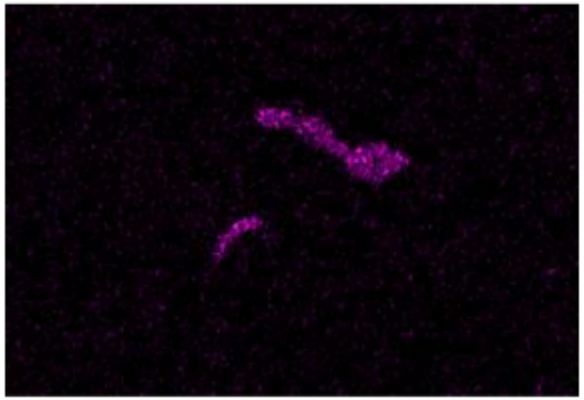
Fe Kα1



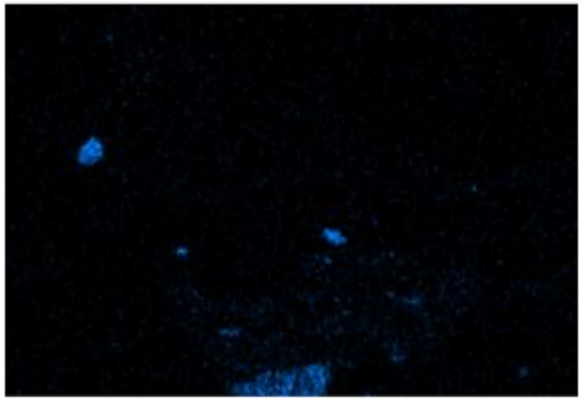
50µm

Na Kα1_2



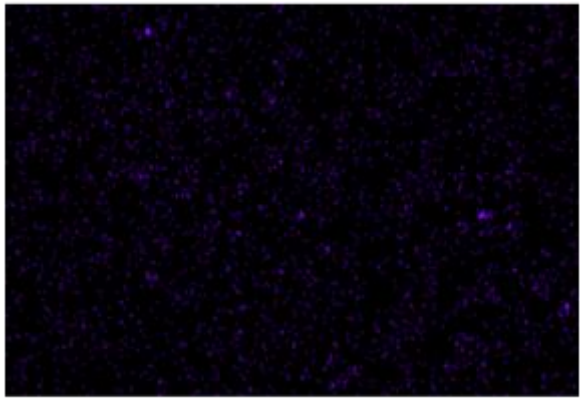
50µm

Ca Kα1



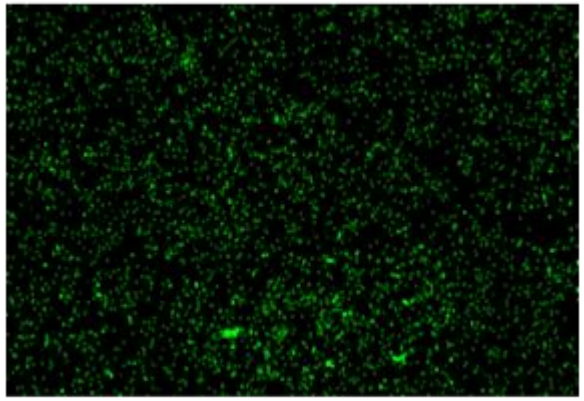
50µm

Ti Kα1



50µm

P Kα1



50µm

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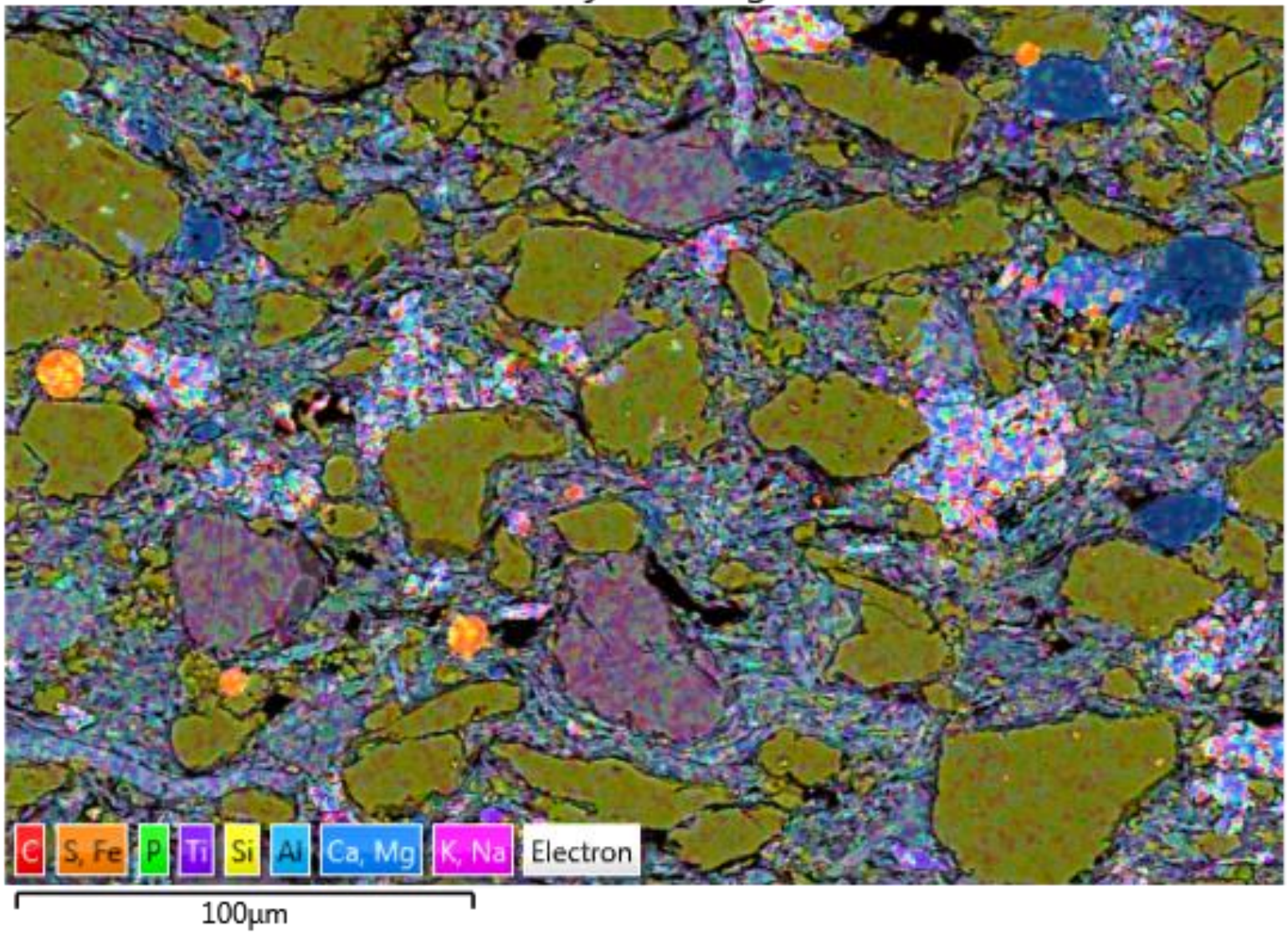
EDS Layered Image 3



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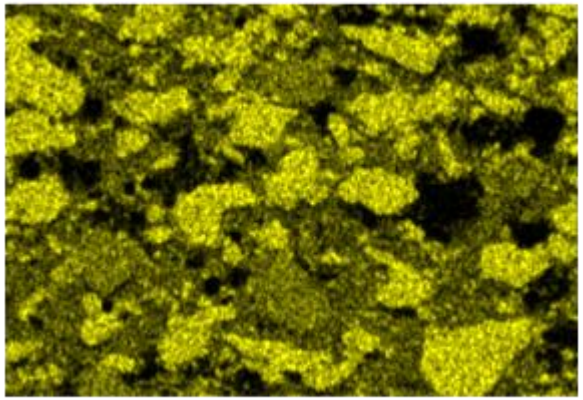
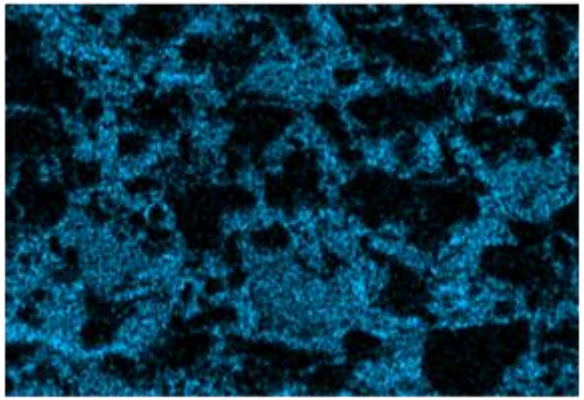
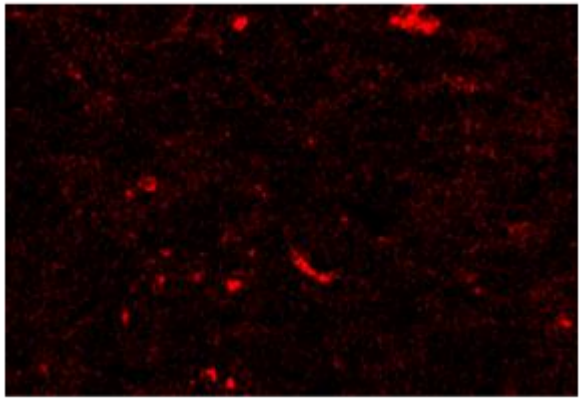
Si Kα1



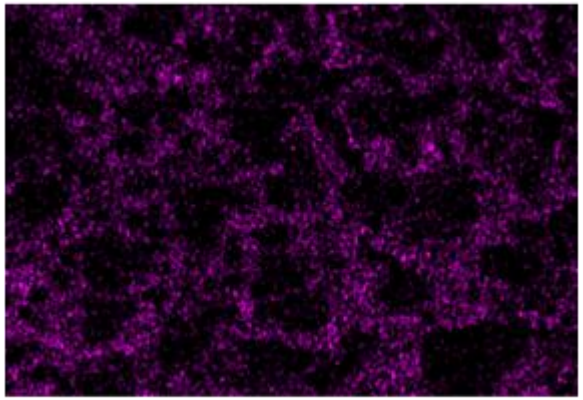
Al Kα1



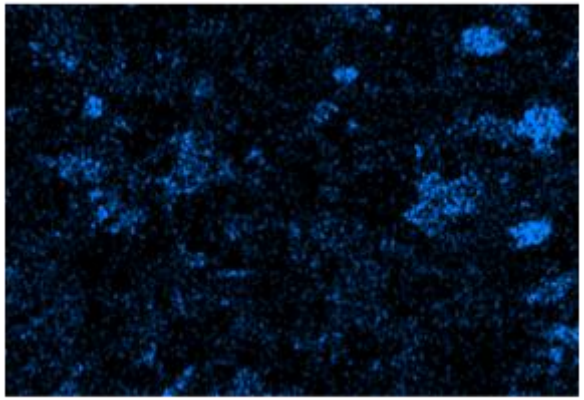
C Kα1_2



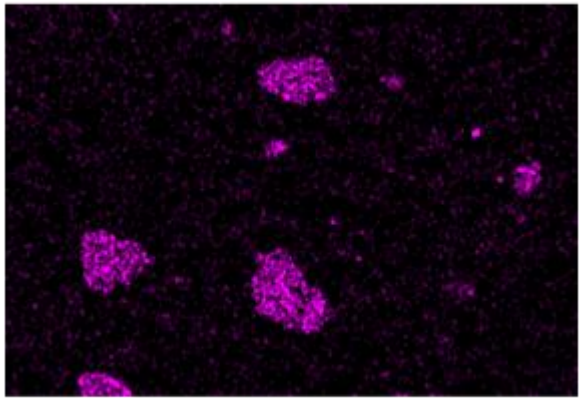
K Kα1



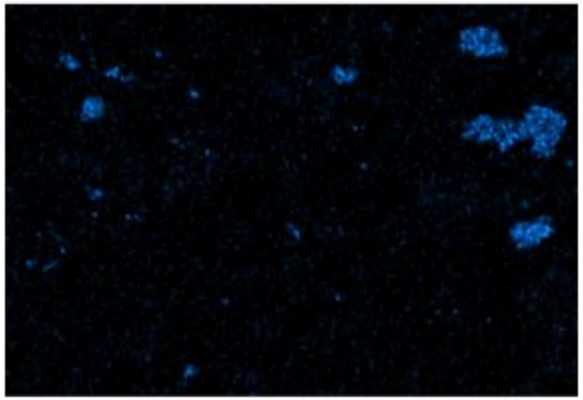
Mg Kα1_2



Na Kα1_2

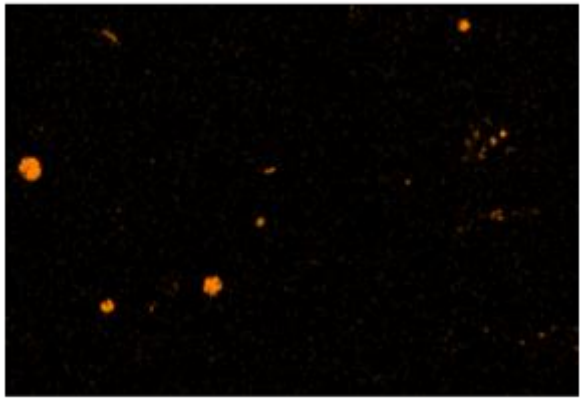


Ca Kα1



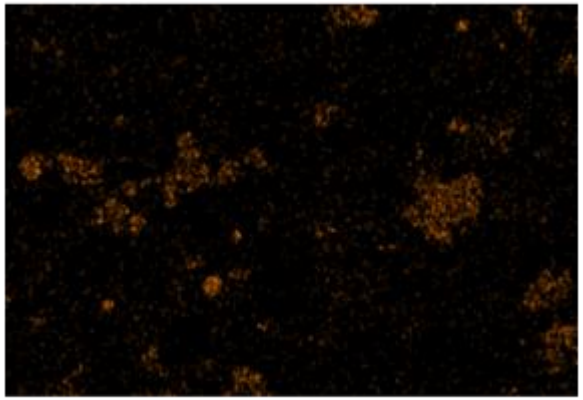
100µm

S Kα1



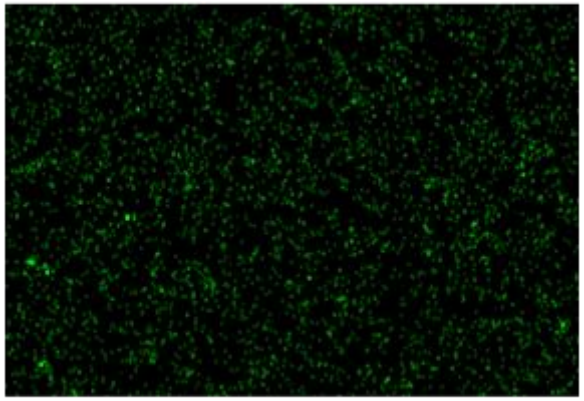
100µm

Fe Kα1



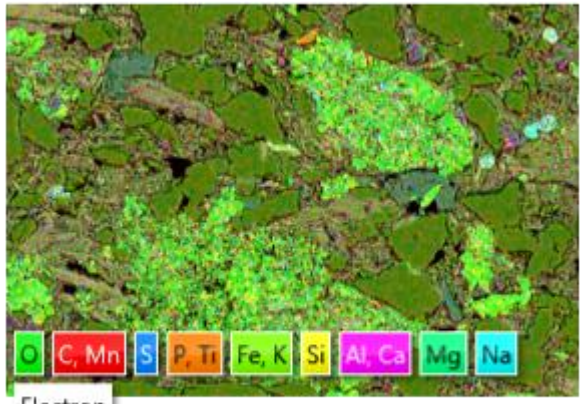
100µm

P Kα1



100µm

EDS Layered Image 4



100µm

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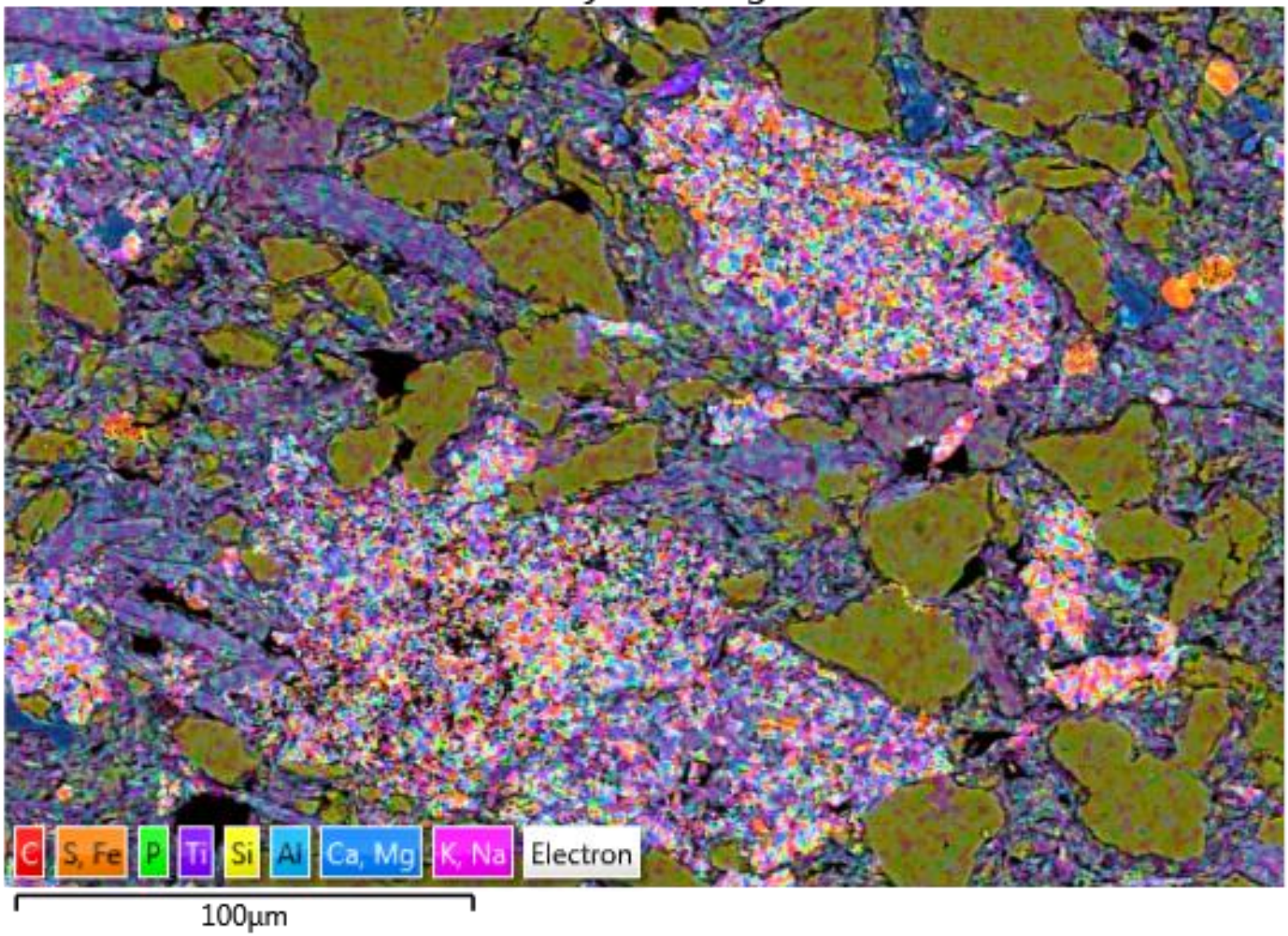
EDS Layered Image 4



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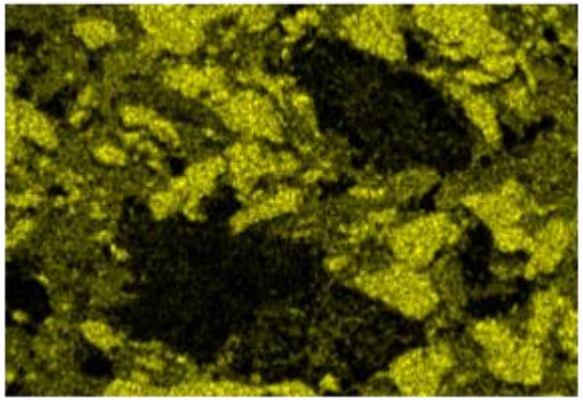
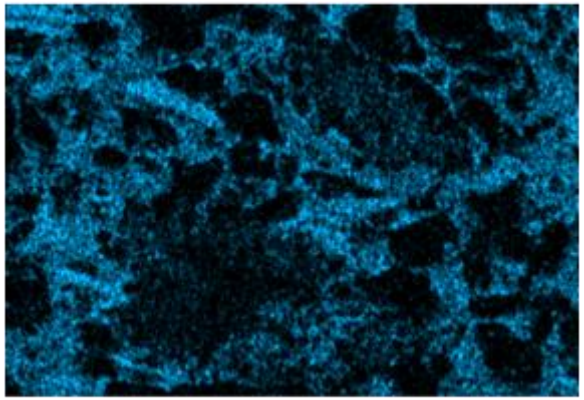
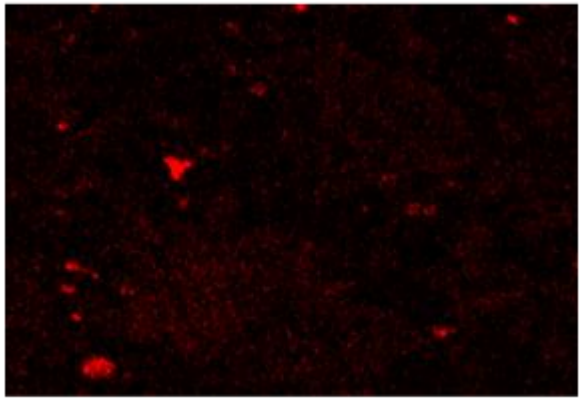
Si Kα1



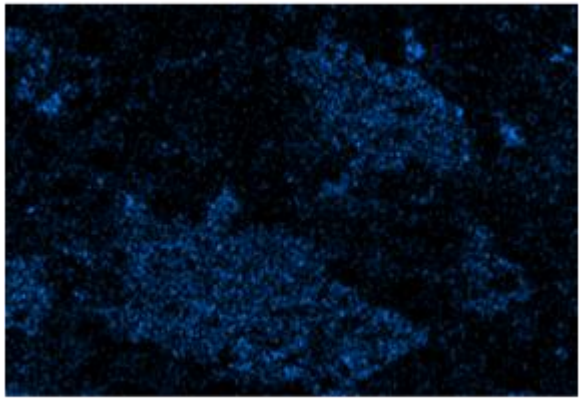
Al Kα1



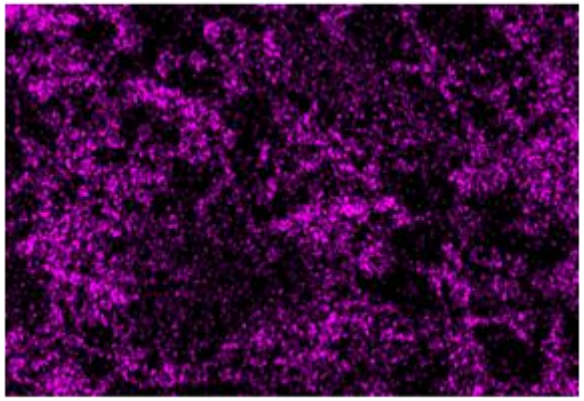
C Kα1_2



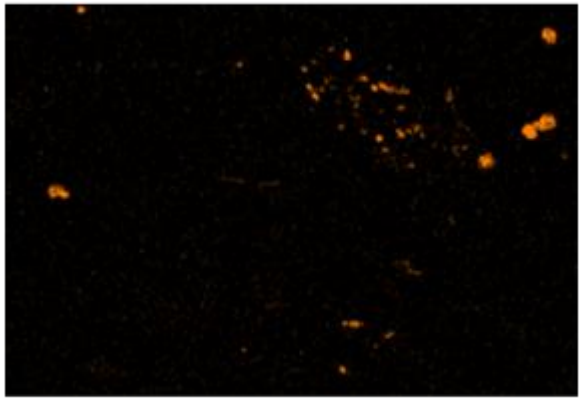
Mg Kα1_2



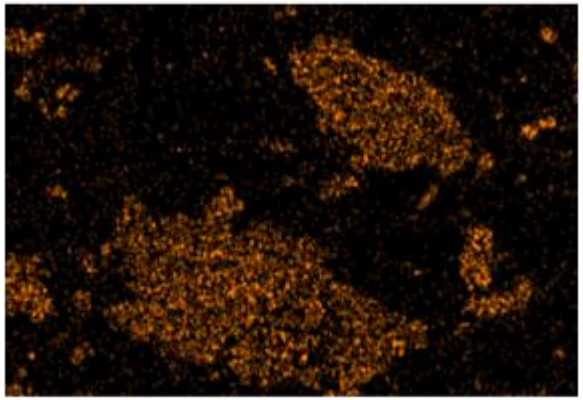
K Kα1



S Kα1

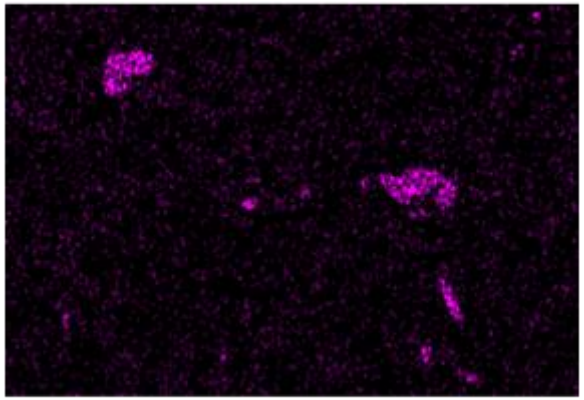


Fe Kα1



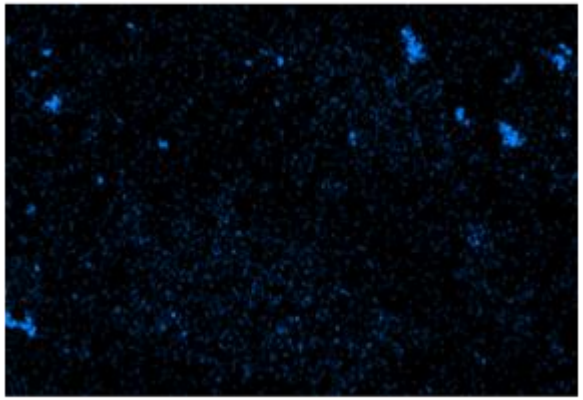
100µm

Na Kα1_2



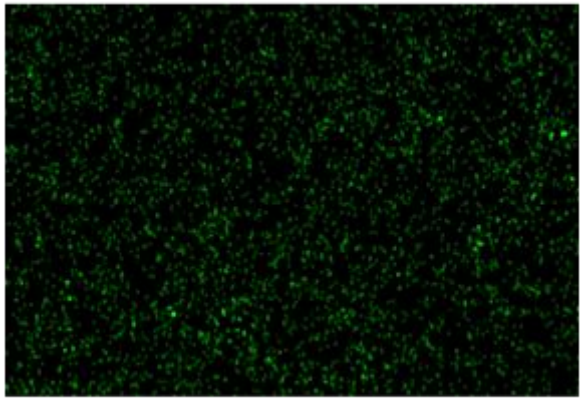
100µm

Ca Kα1



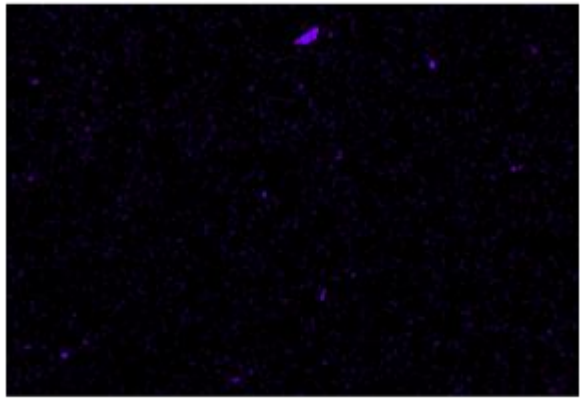
100µm

P Kα1



100µm

Ti Kα1



100µm

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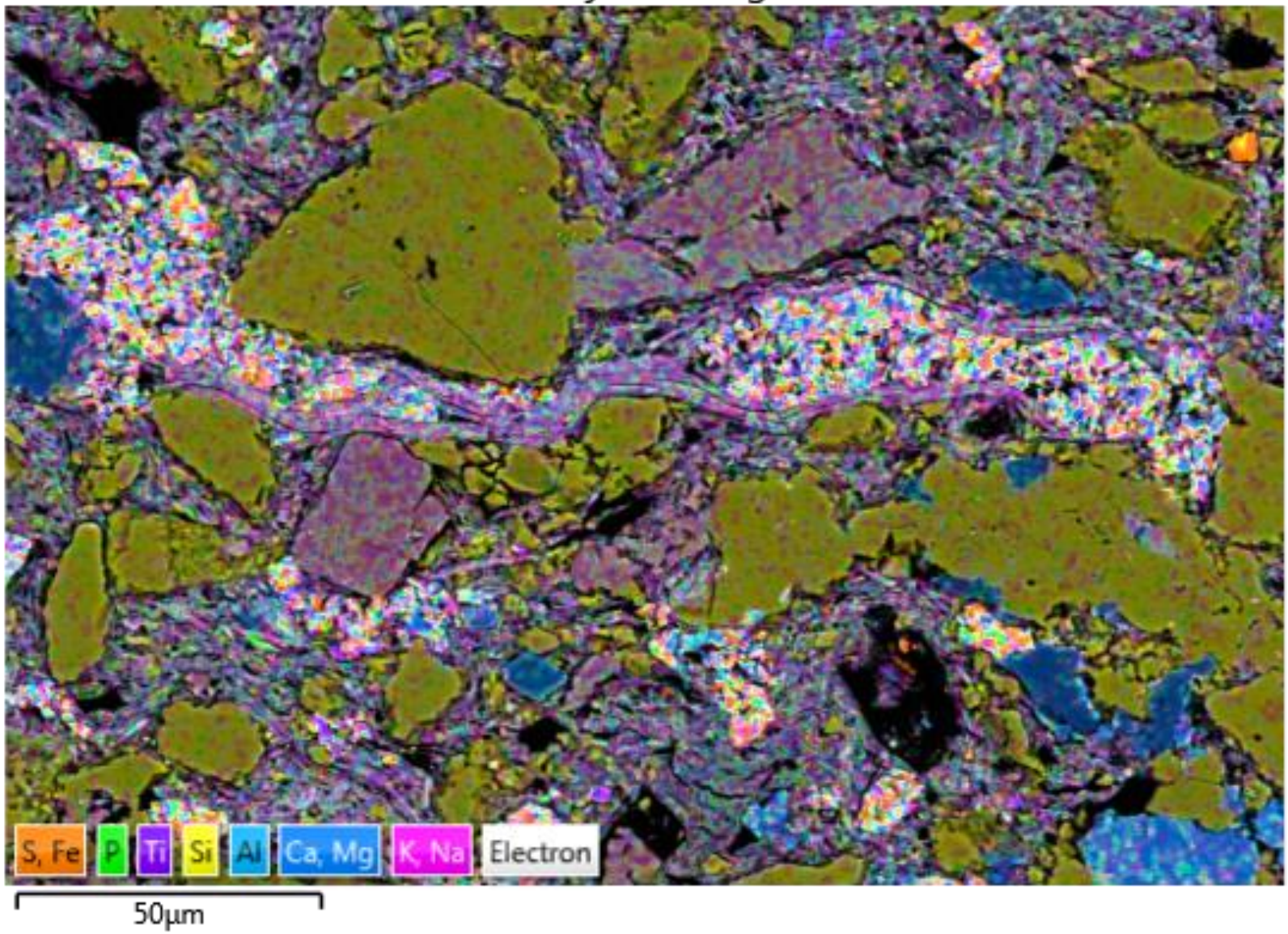
EDS Layered Image 5



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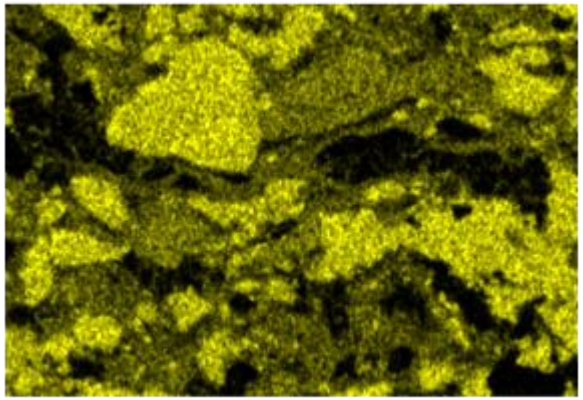
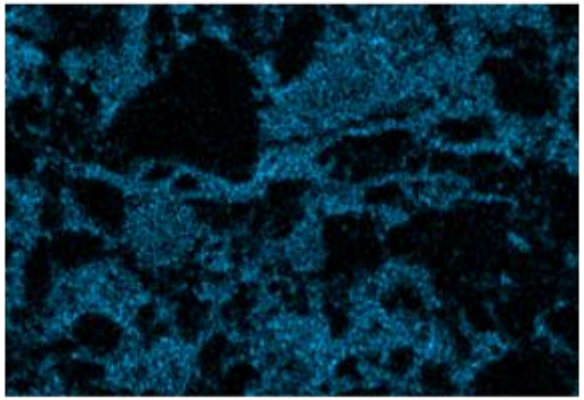
Si Kα1



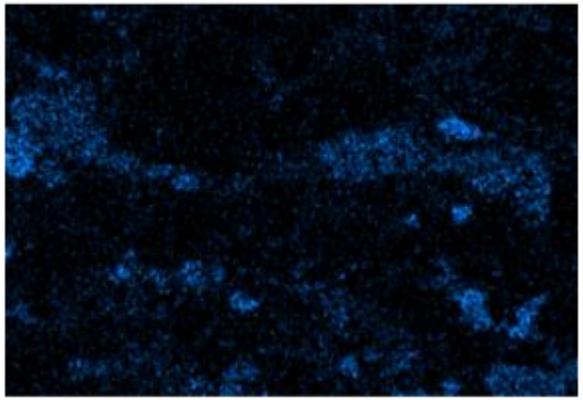
50µm

Al Kα1



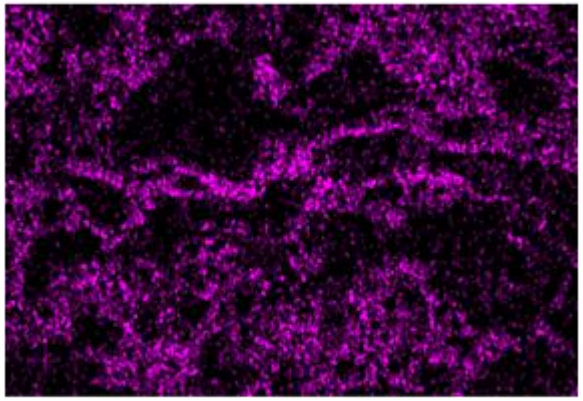
50µm

Mg Kα1_2



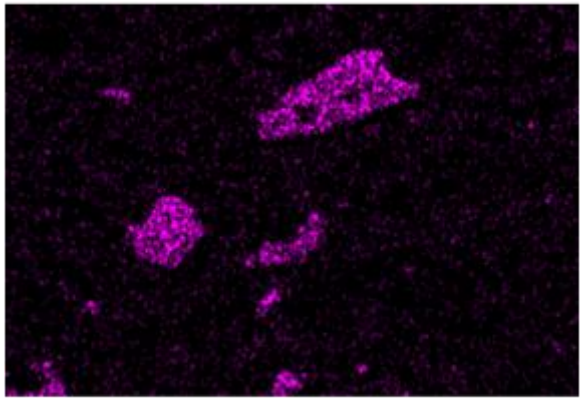
50µm

K Kα1



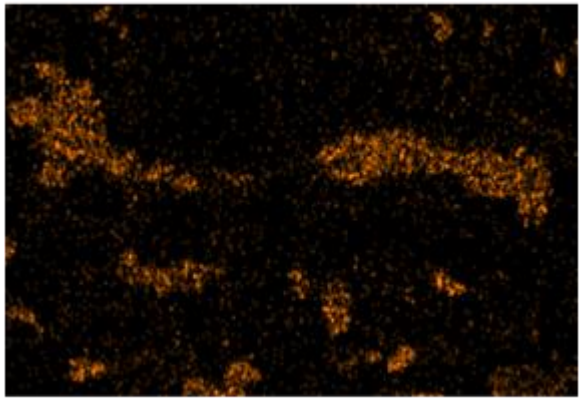
50µm

Na Kα1_2



50µm

Fe Kα1



50µm

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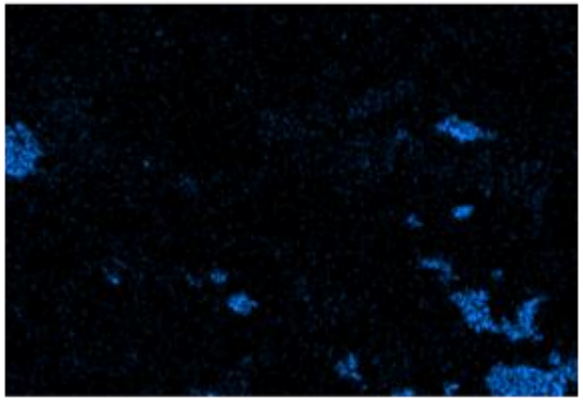
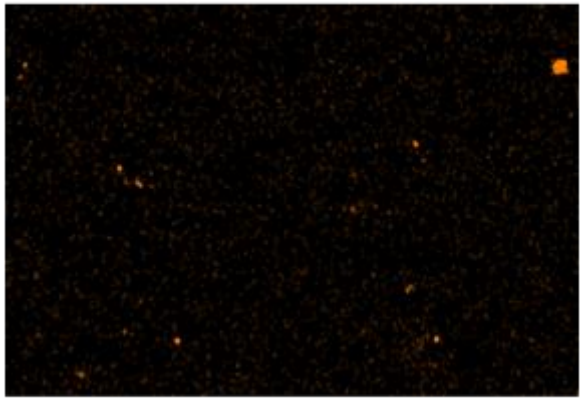
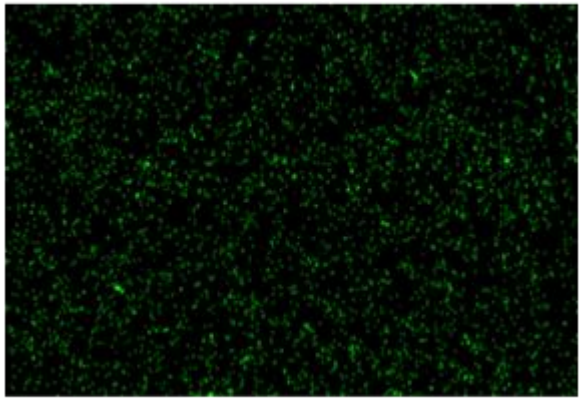
Ca Kα1



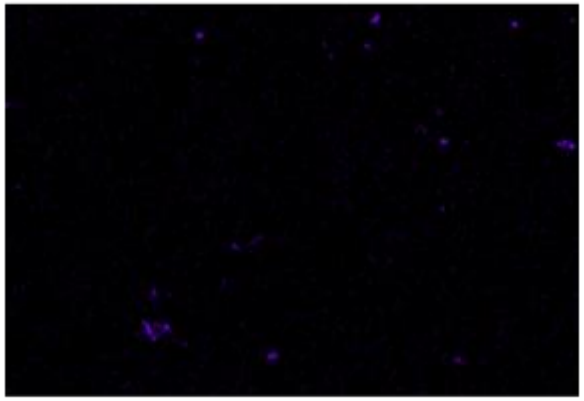
S Kα1



P Kα1



Ti Kα1



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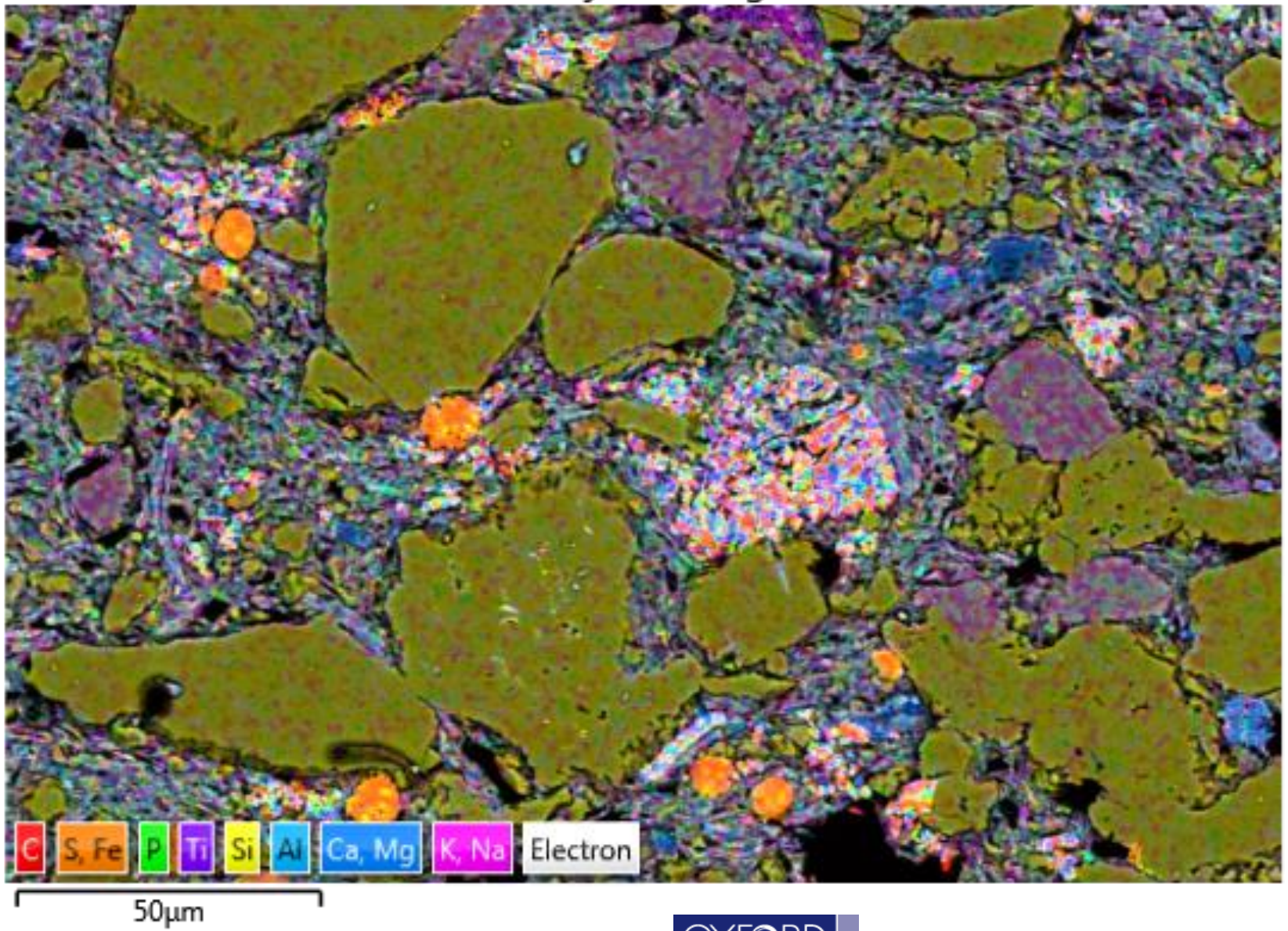
EDS Layered Image 6



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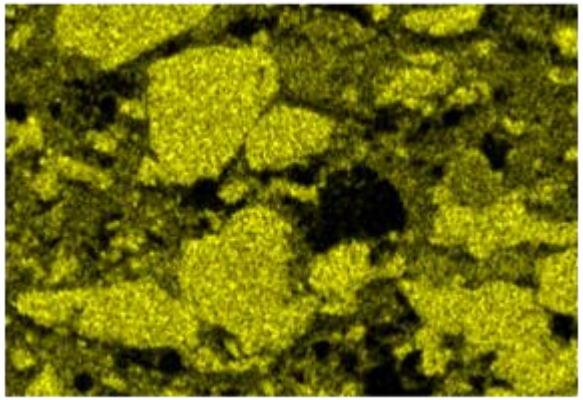
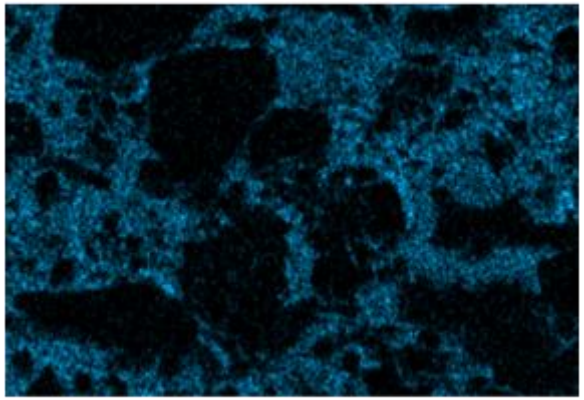
Si Kα1



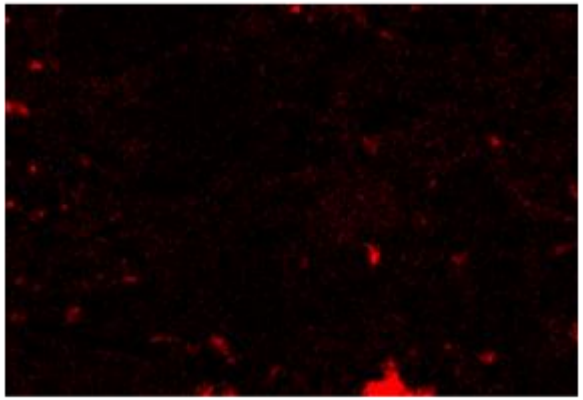
50µm

Al Kα1



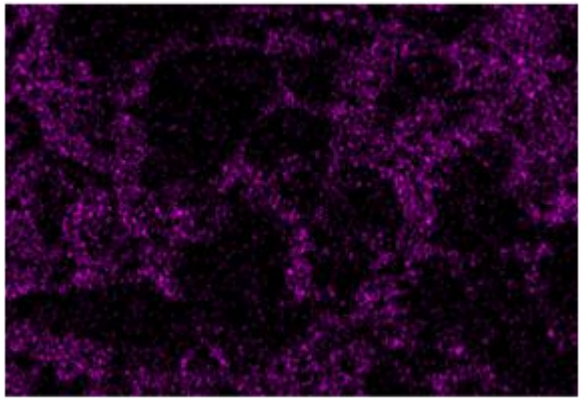
50µm

C Kα1_2



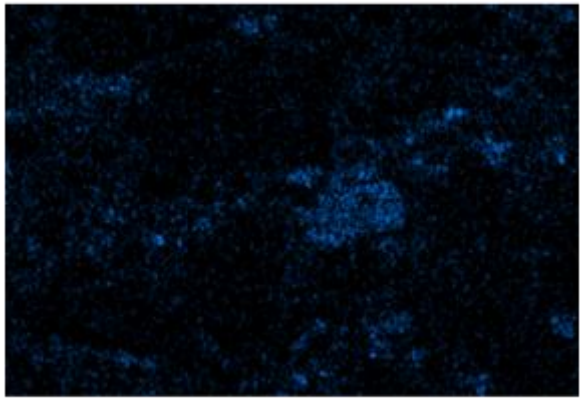
50µm

K Kα1



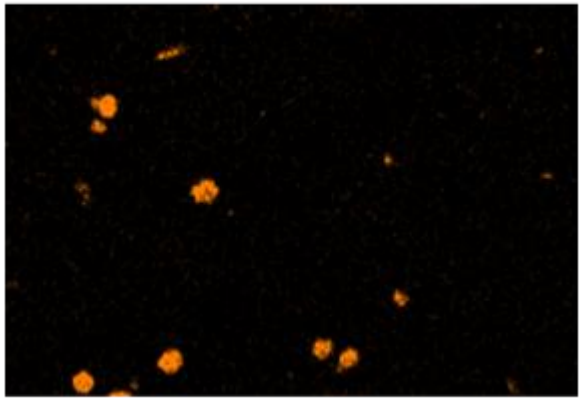
50µm

Mg Kα1_2



50µm

S Kα1



50µm

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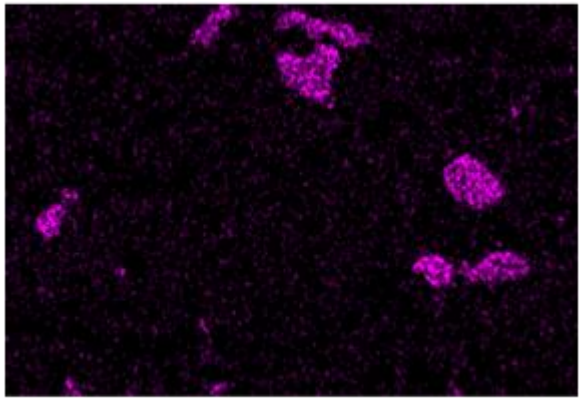
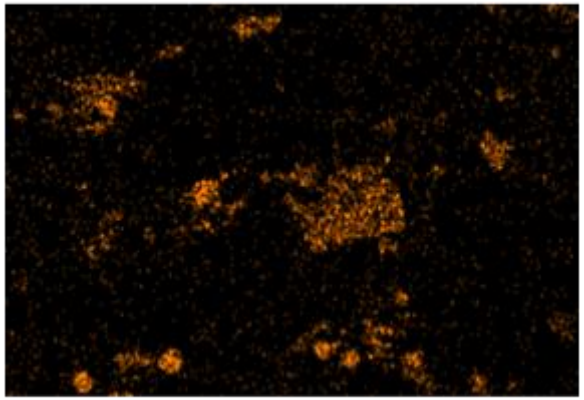
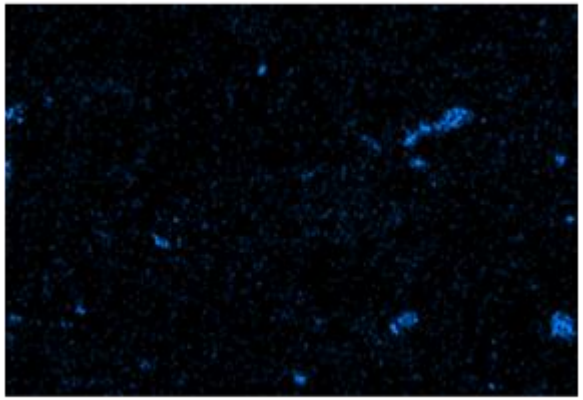
Na Kα1_2



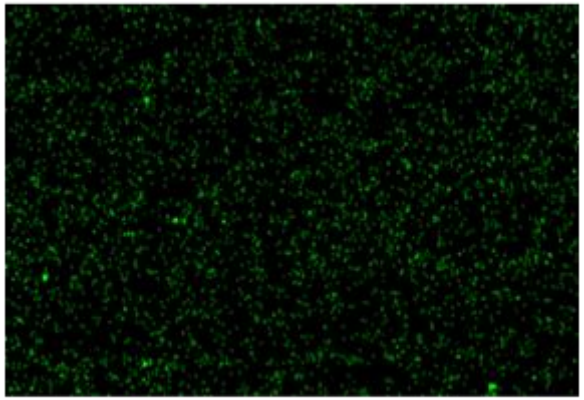
Fe Kα1



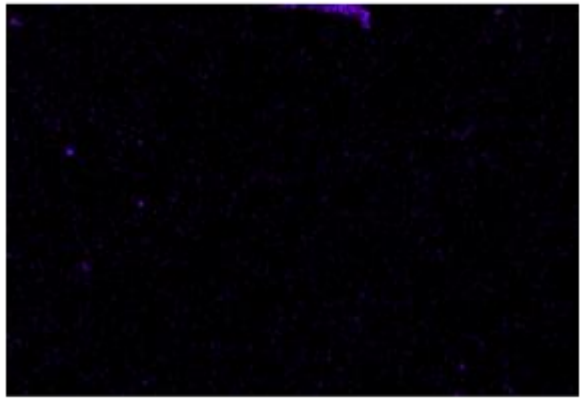
Ca Kα1



P Kα1



Ti Kα1



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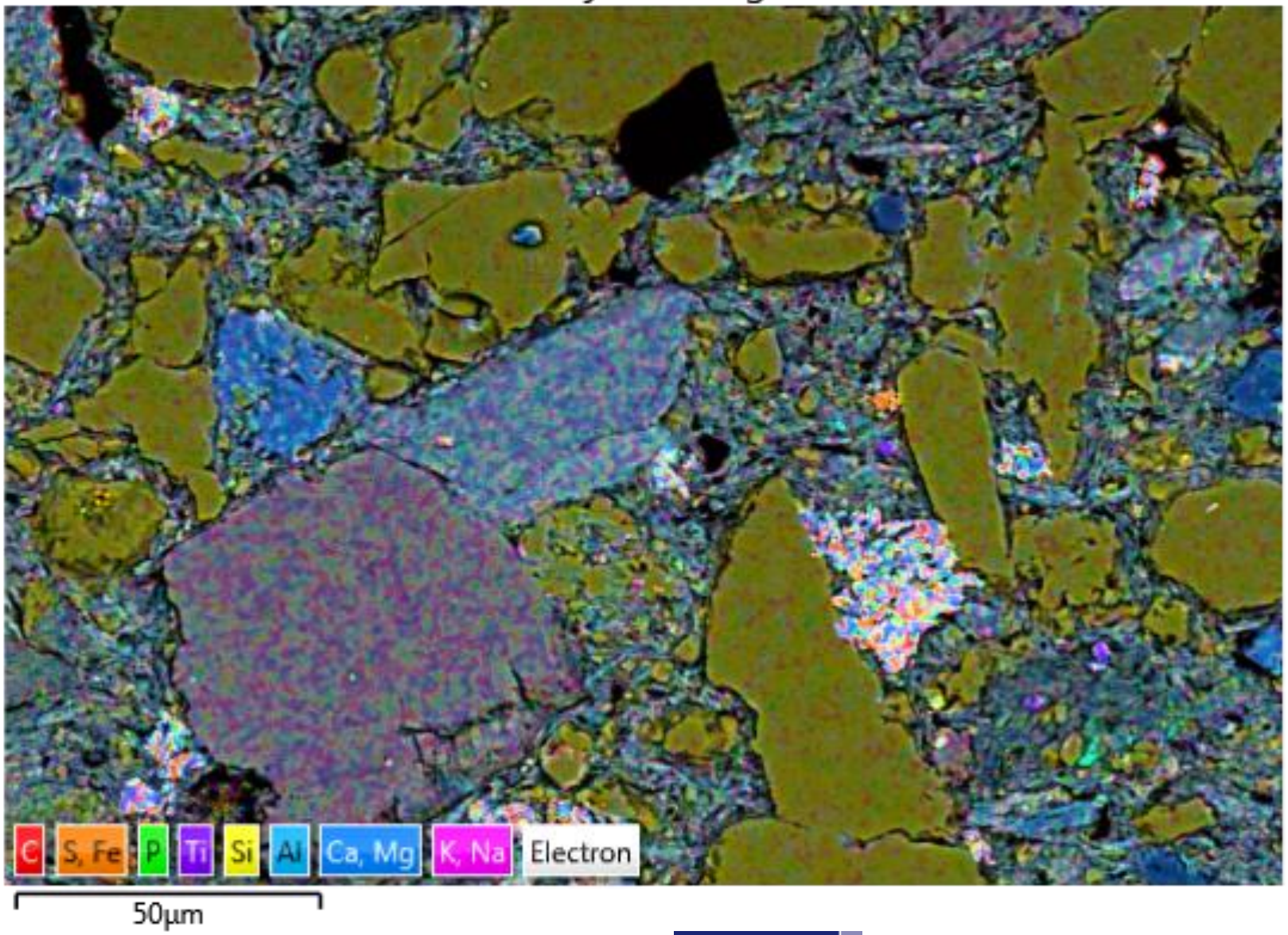
EDS Layered Image 7



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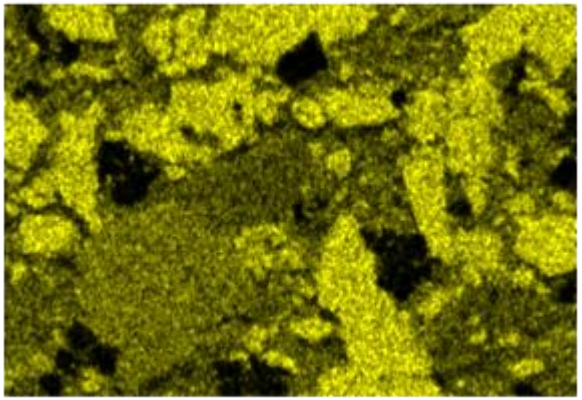
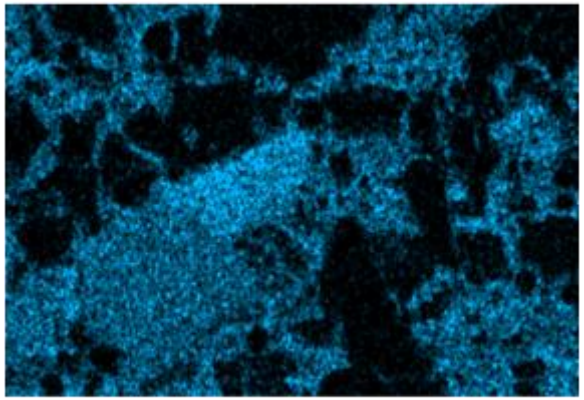
Si Kα1



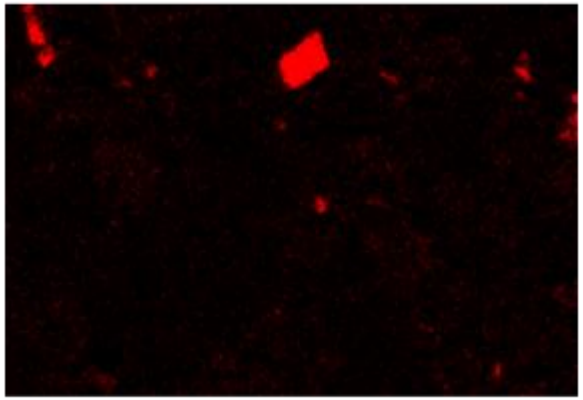
50µm

Al Kα1



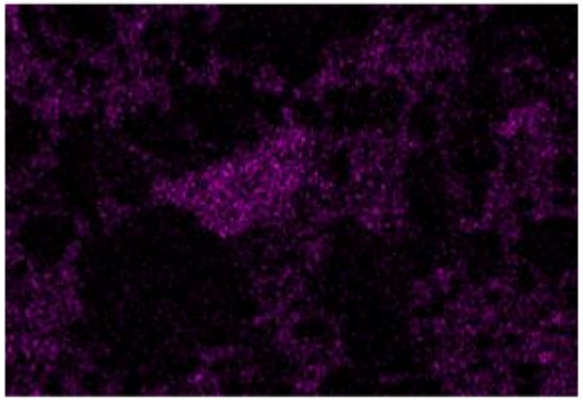
50µm

C Kα1_2



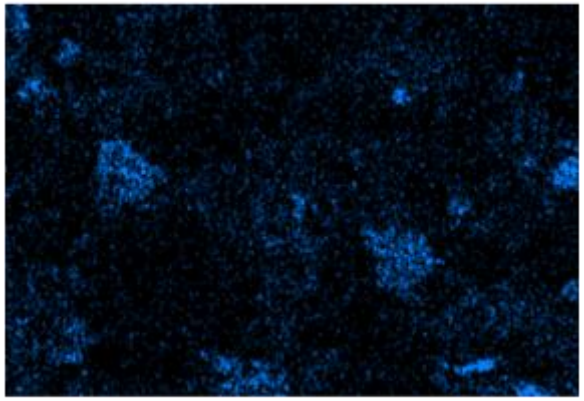
50µm

K Kα1



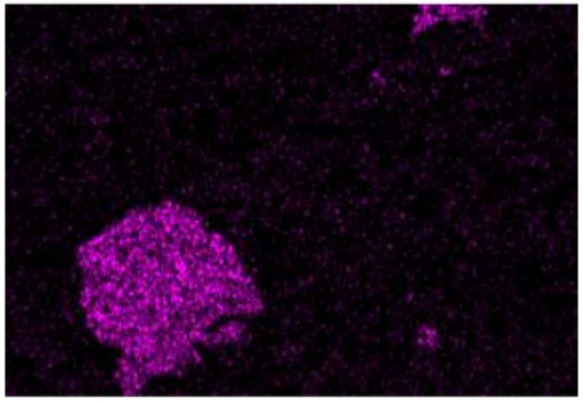
50µm

Mg Kα1_2



50µm

Na Kα1_2



50µm

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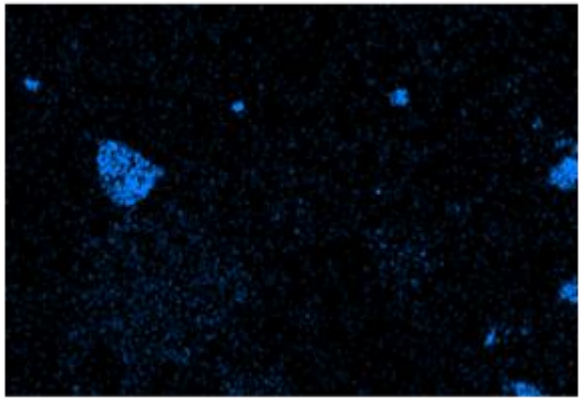
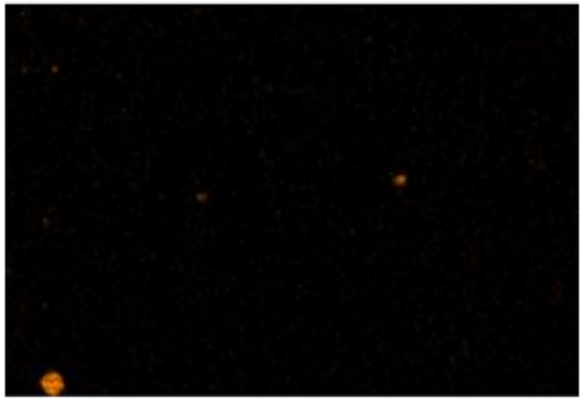
Ca Kα1



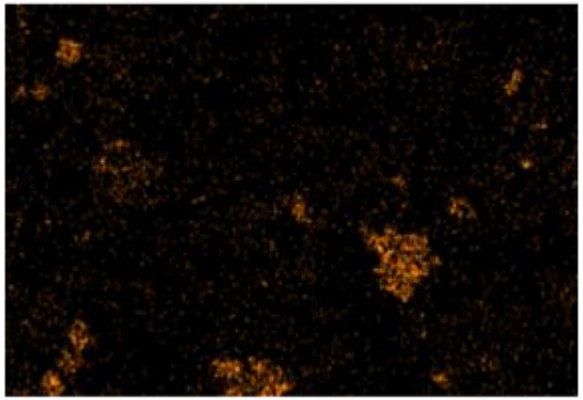
50µm

S Kα1



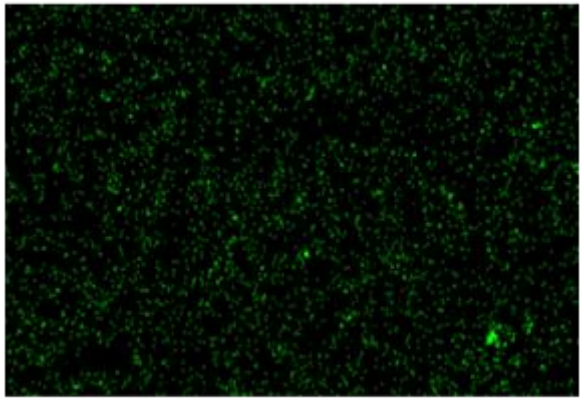
50µm

Fe Kα1



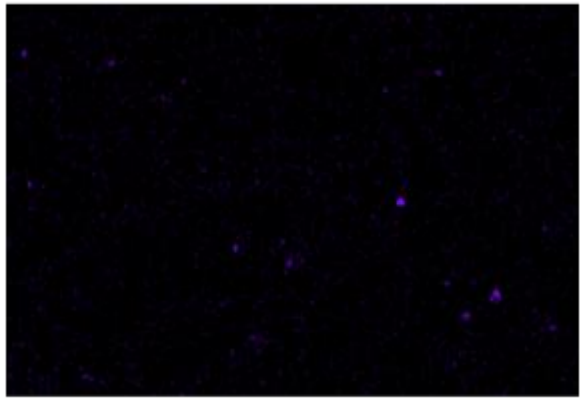
50µm

P Kα1



50µm

Ti Kα1



50µm

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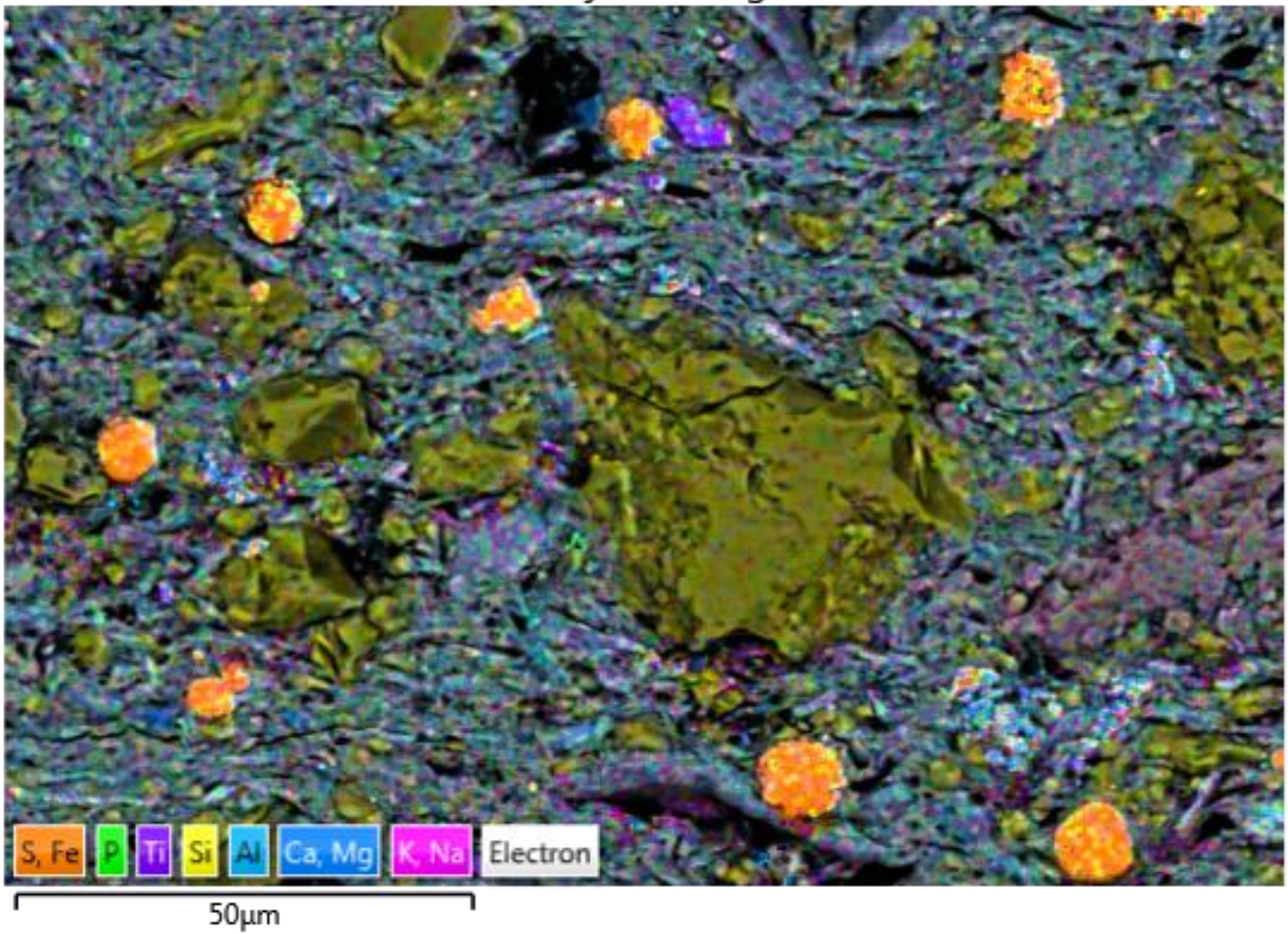
EDS Layered Image 1



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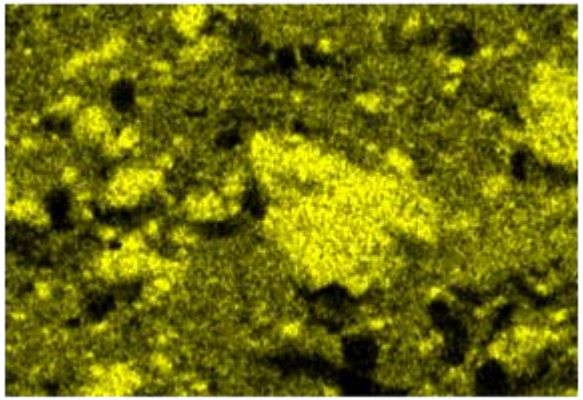
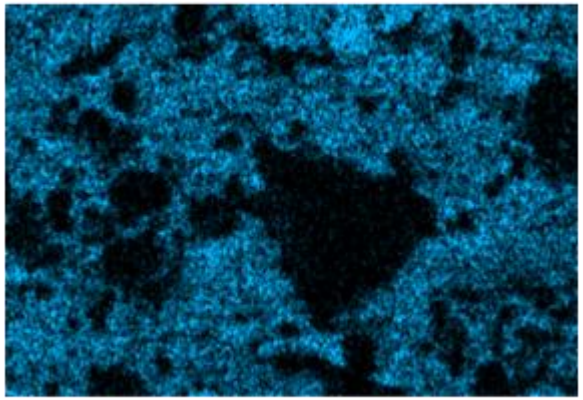
Si Kα1



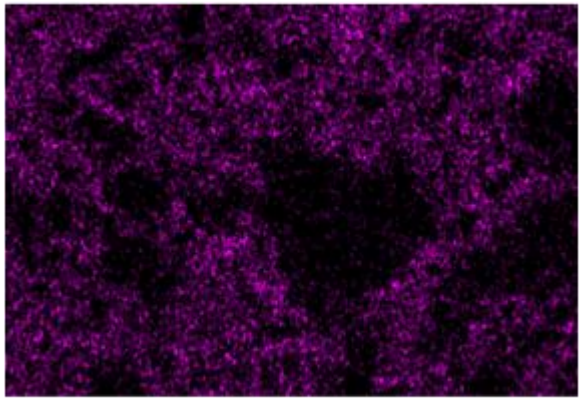
50µm

Al Kα1



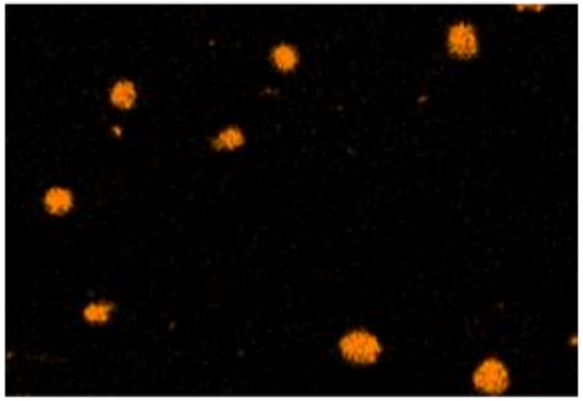
50µm

K Kα1



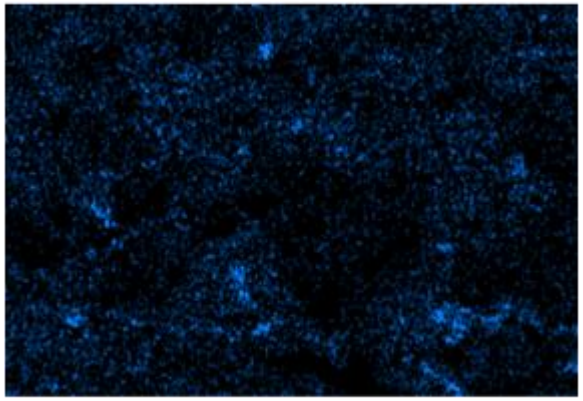
50µm

S Kα1



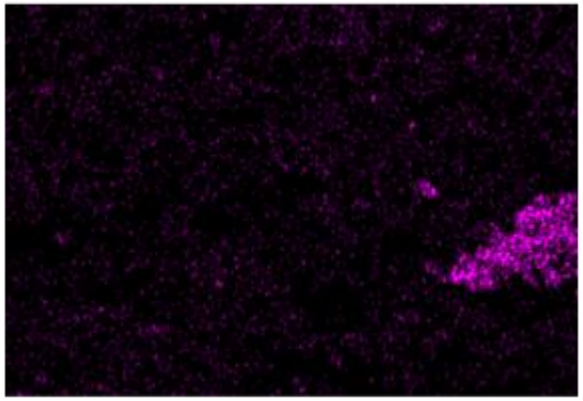
50µm

Mg Kα1_2



50µm

Na Kα1_2



50µm

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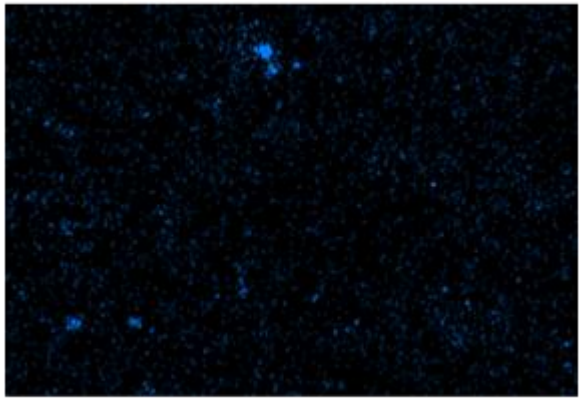
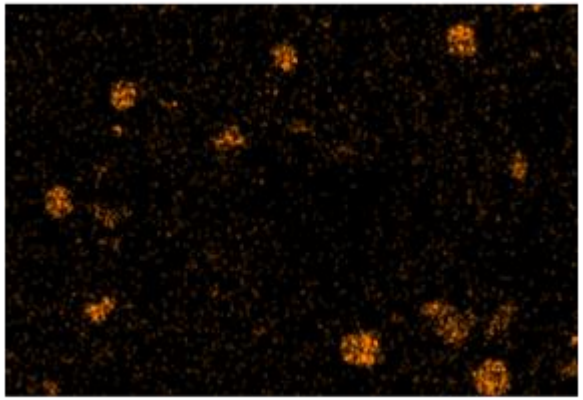
Ca Kα1



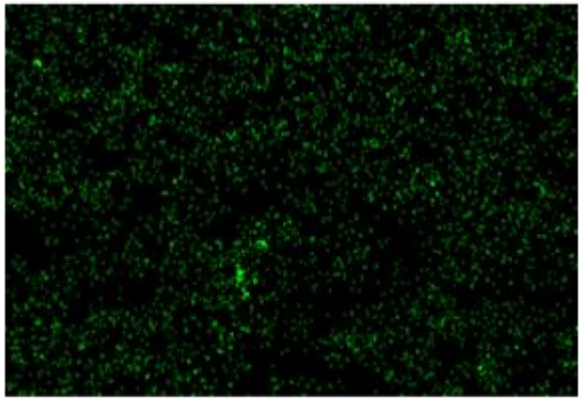
50µm

Fe Kα1



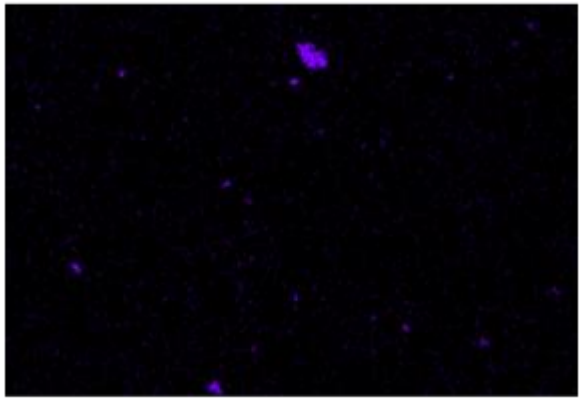
50µm

P Kα1



50µm

Ti Kα1



50µm

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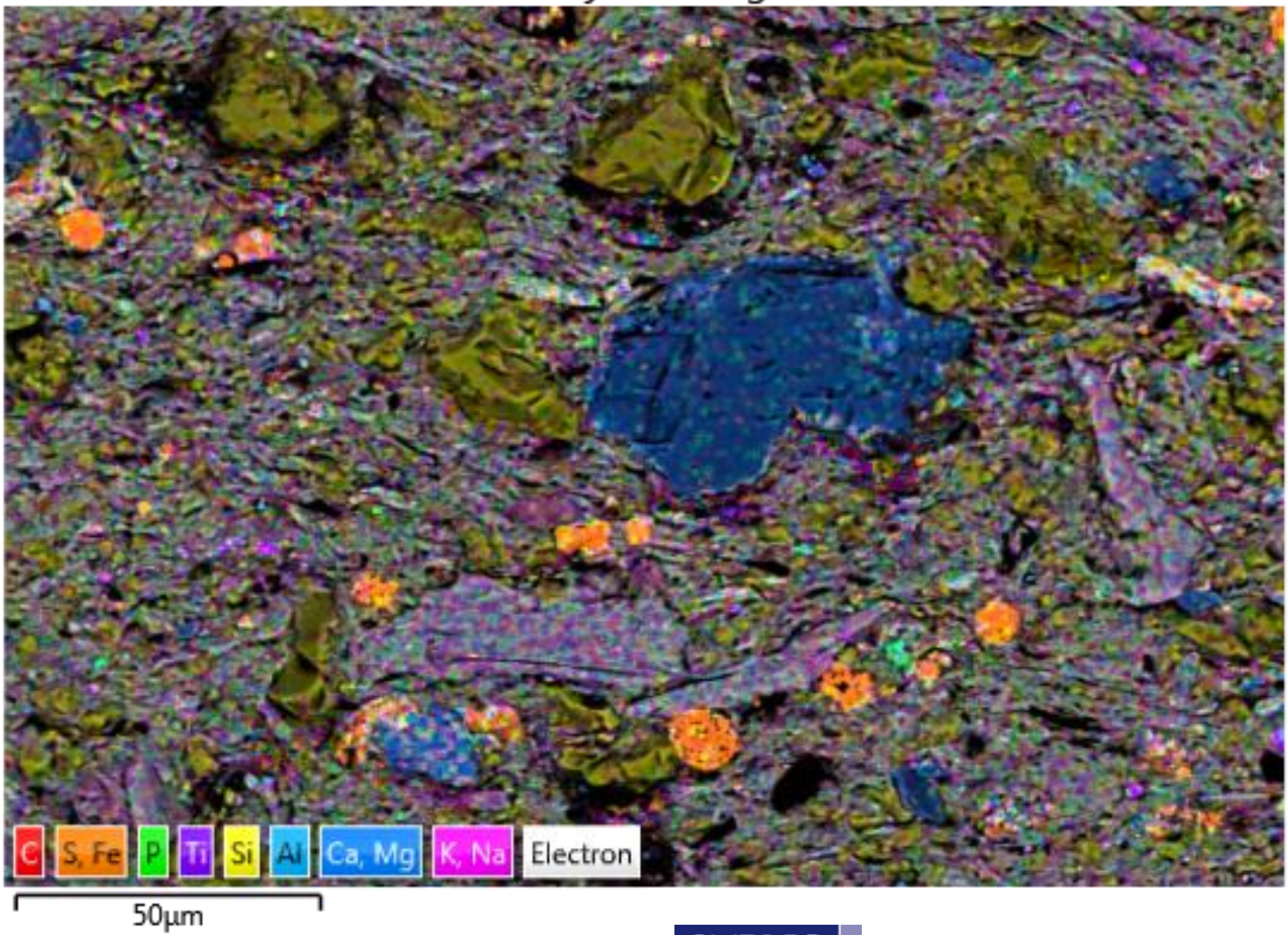
EDS Layered Image 2



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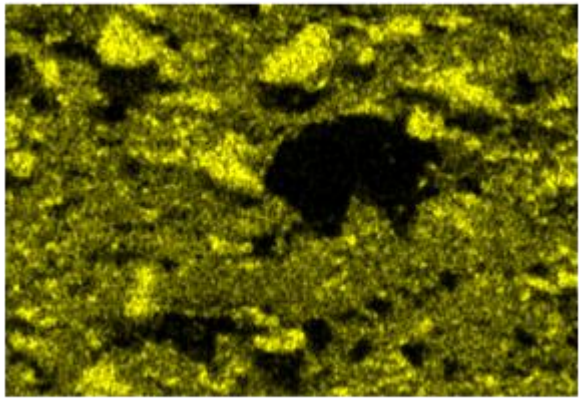
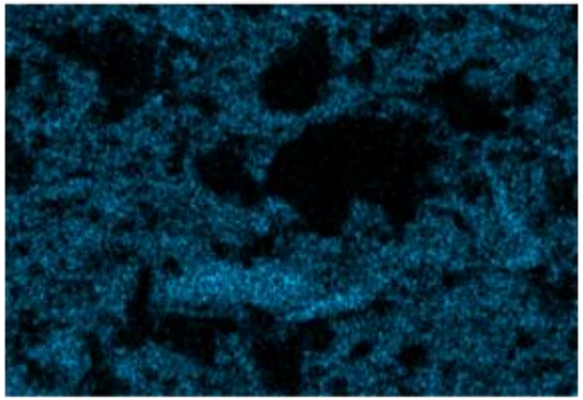
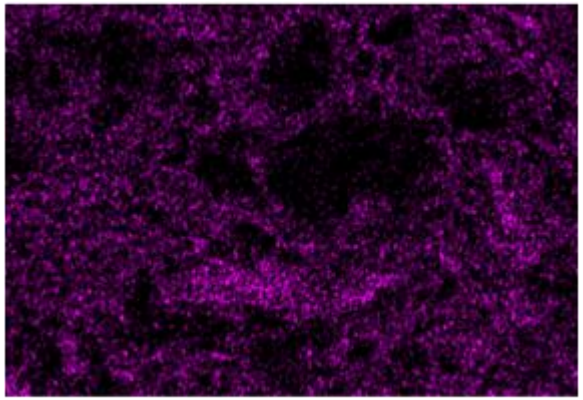
Si Kα1



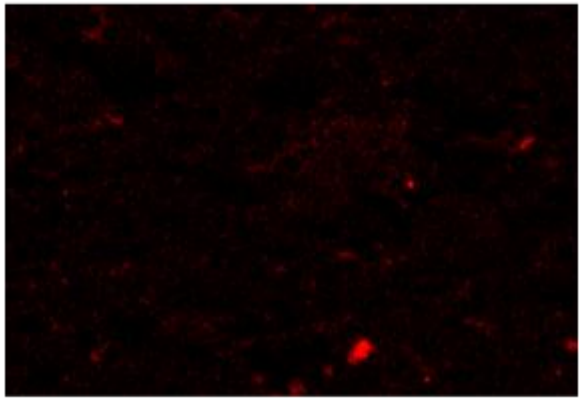
Al Kα1



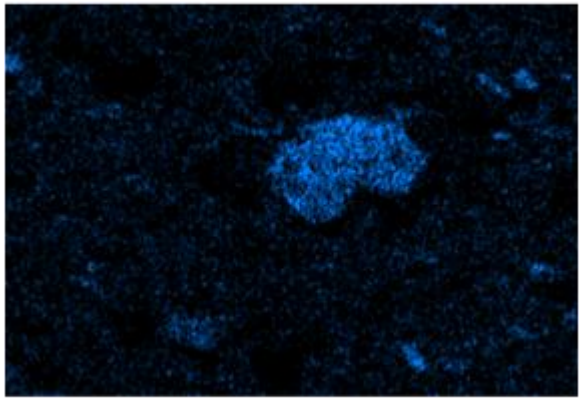
K Kα1



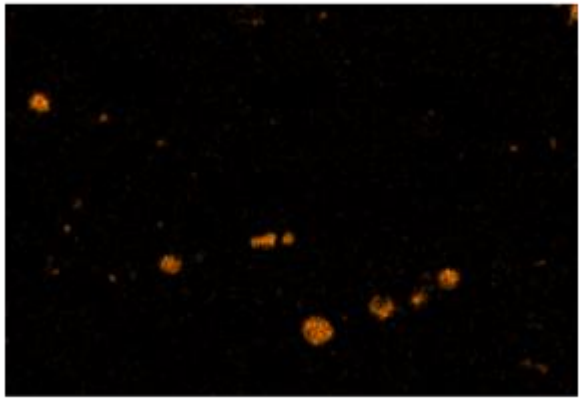
C Kα1_2



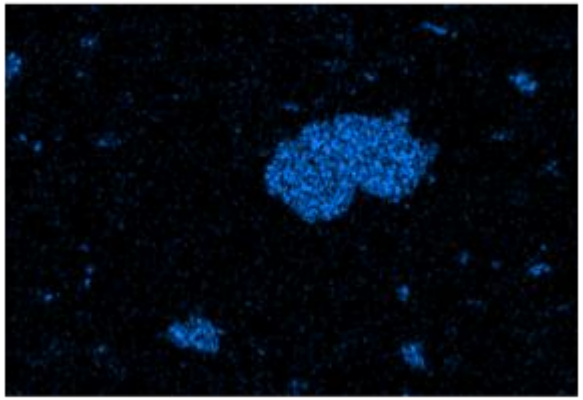
Mg Kα1_2



S Kα1

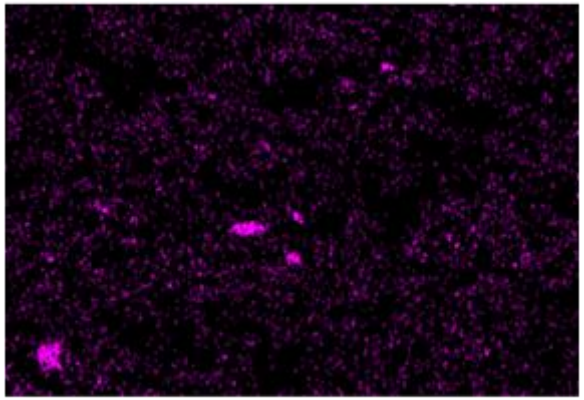


Ca Kα1



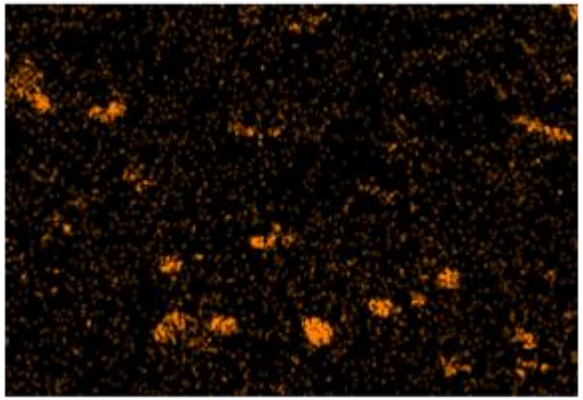
50µm

Na Kα1_2



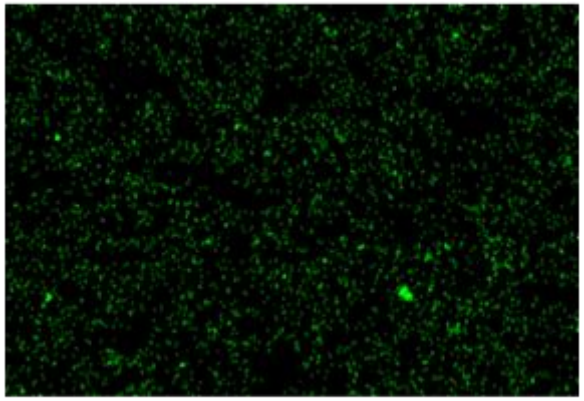
50µm

Fe Kα1



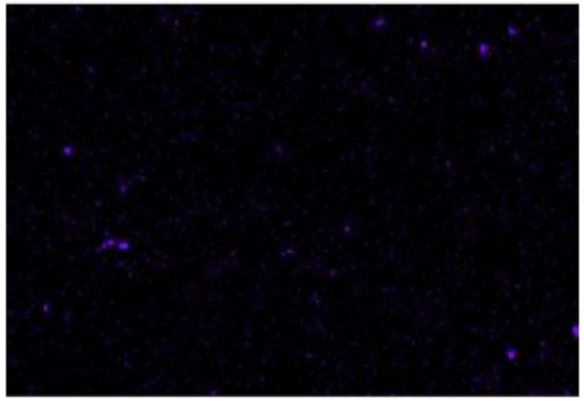
50µm

P Kα1



50µm

Ti Kα1



50µm

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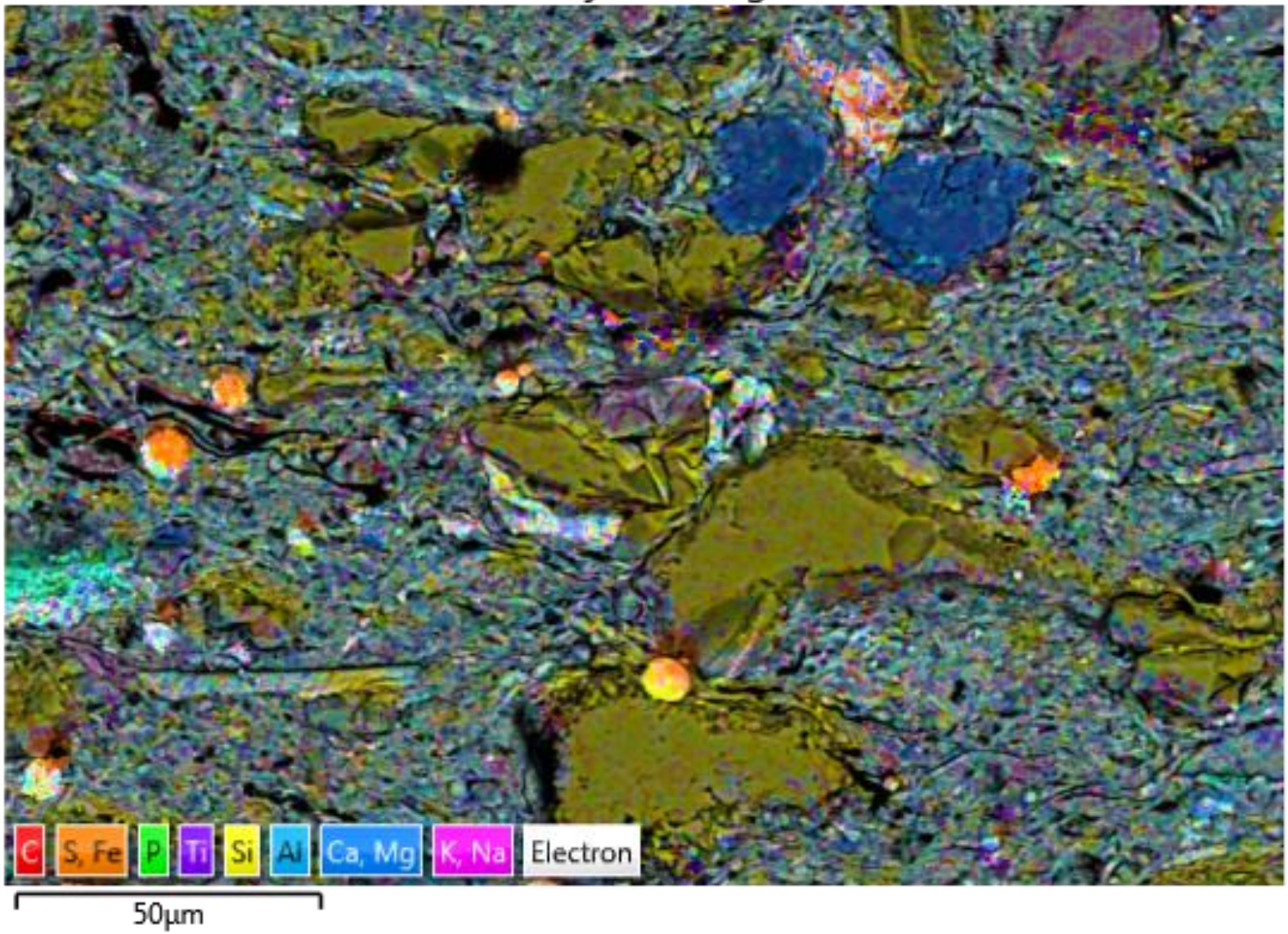
EDS Layered Image 1



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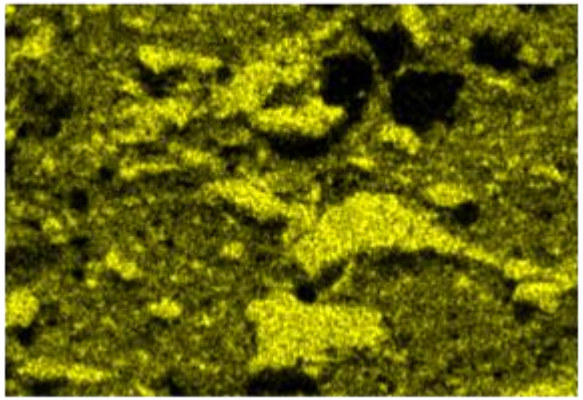
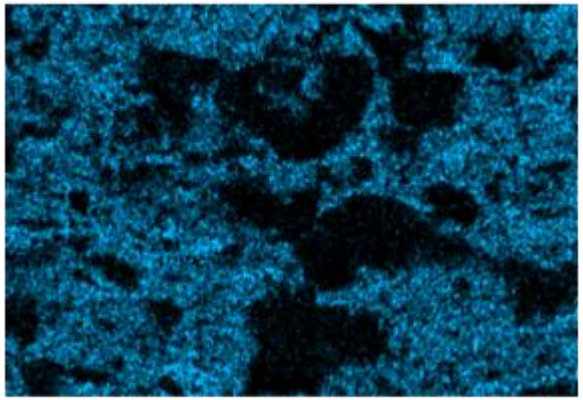
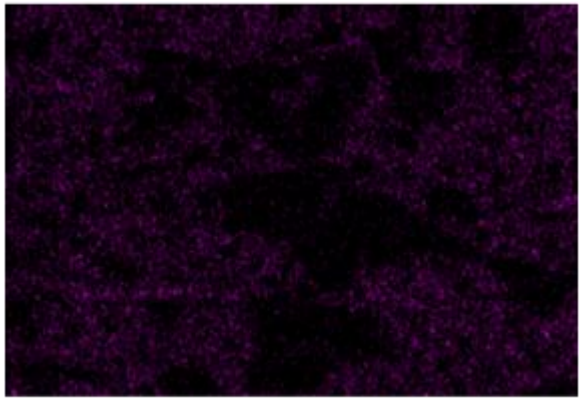
Si Kα1



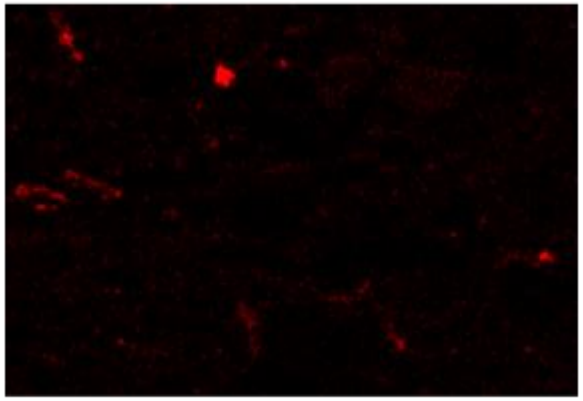
Al Kα1



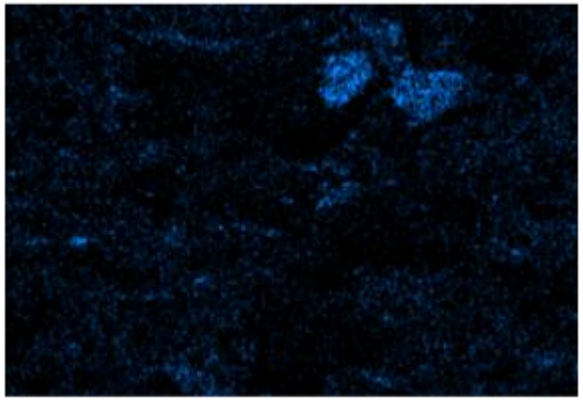
K Kα1



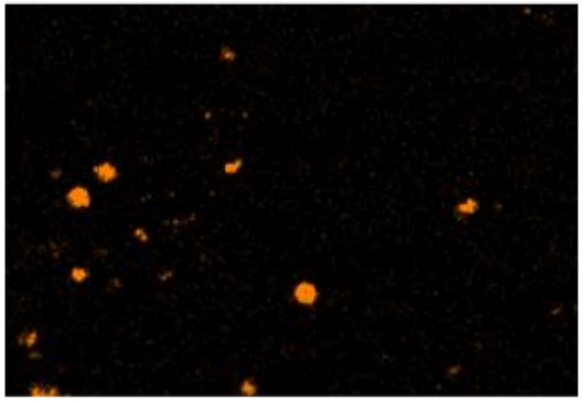
C Kα1_2



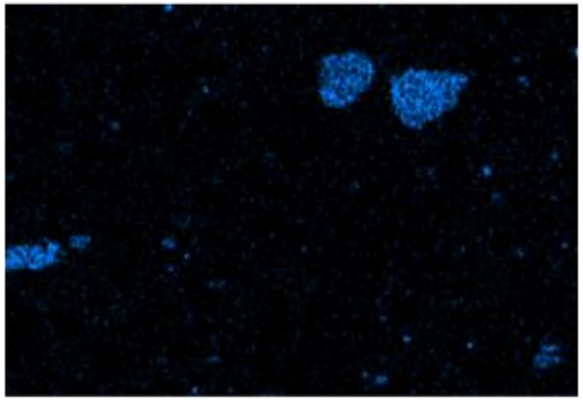
Mg Kα1_2



S Kα1

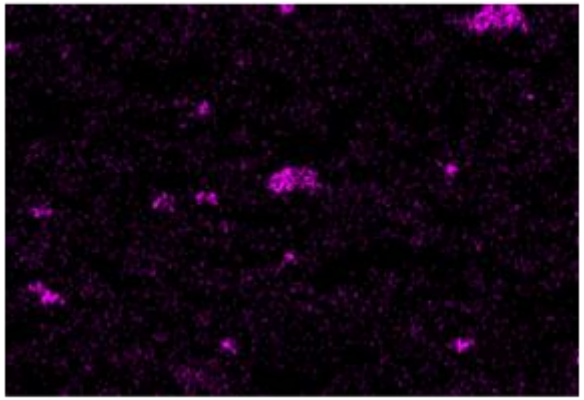


Ca Kα1



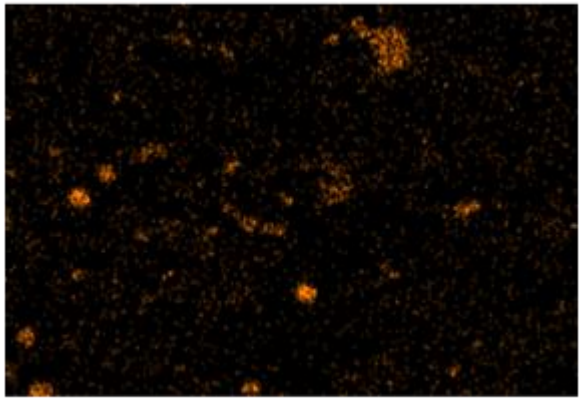
50µm

Na Kα1_2



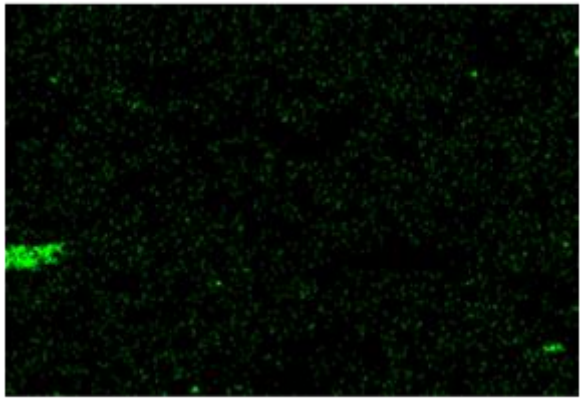
50µm

Fe Kα1



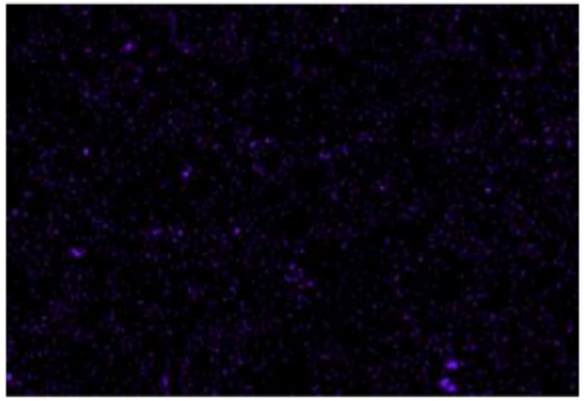
50µm

P Kα1



50µm

Ti Kα1



50µm

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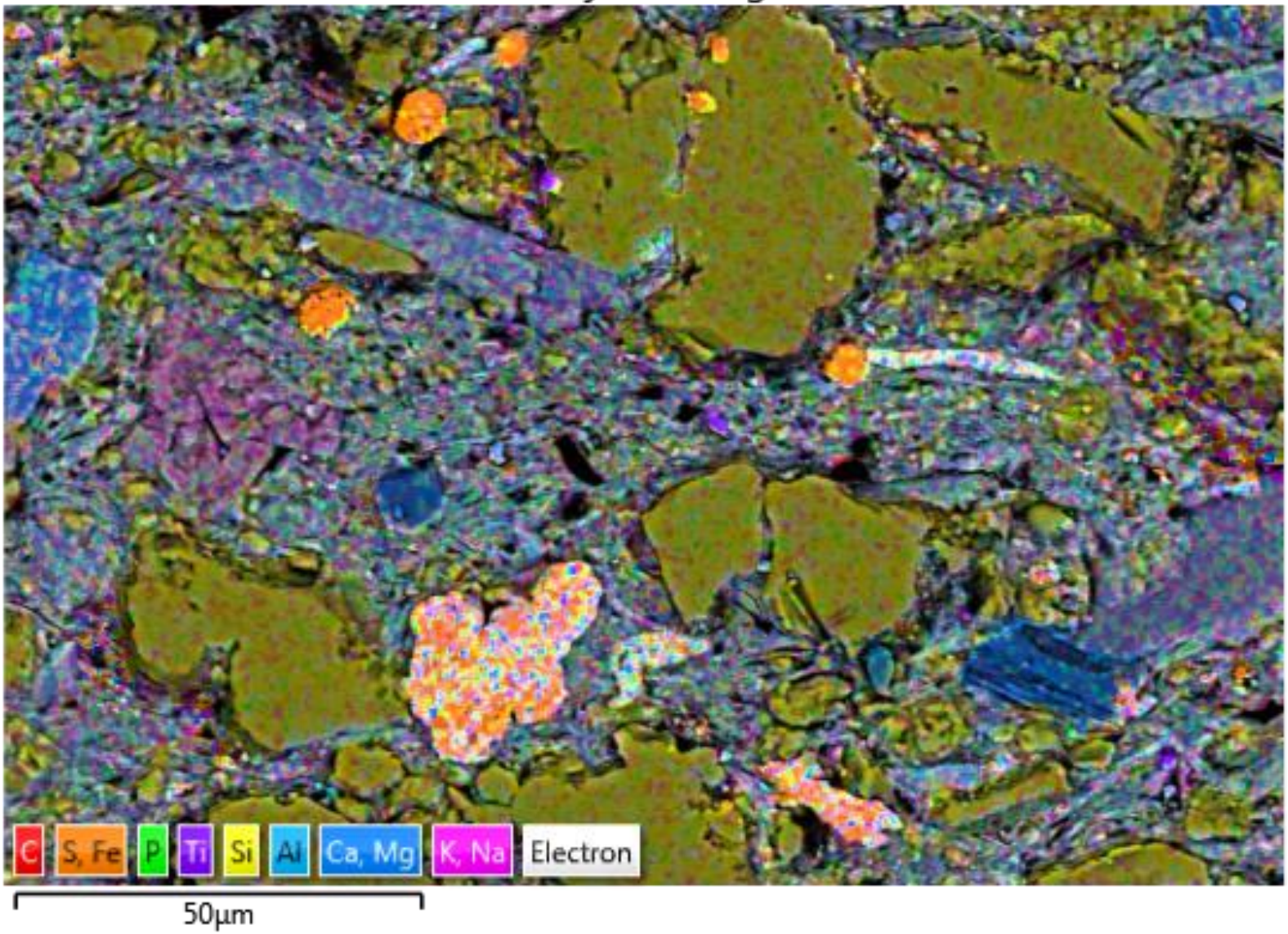
EDS Layered Image 1



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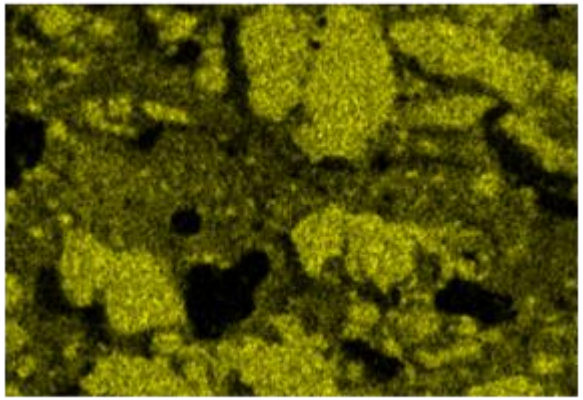
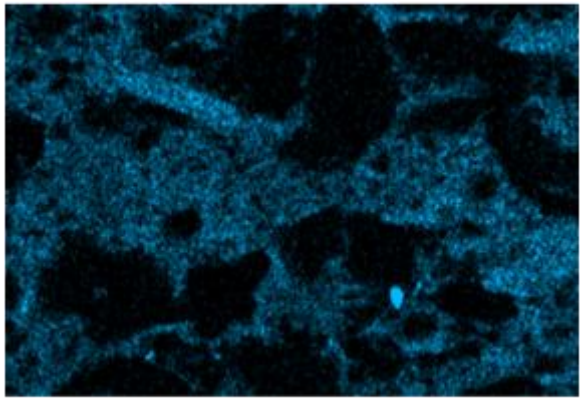
Si Kα1



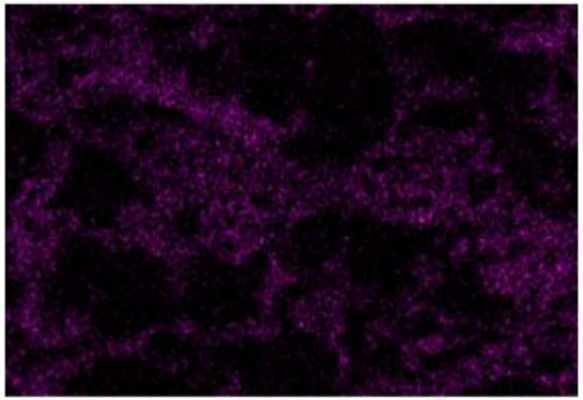
50µm

Al Kα1



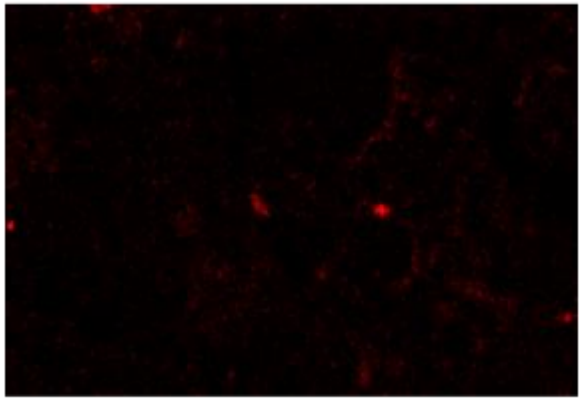
50µm

K Kα1



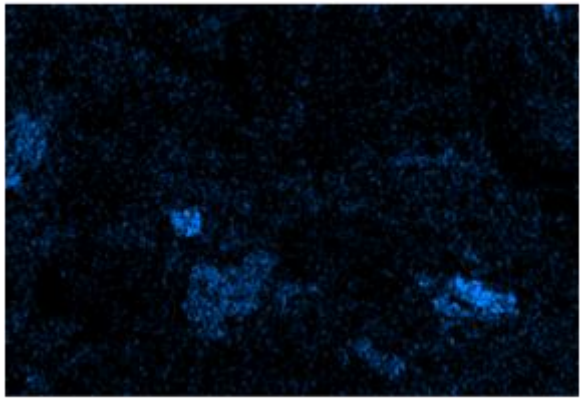
50µm

C Kα1_2



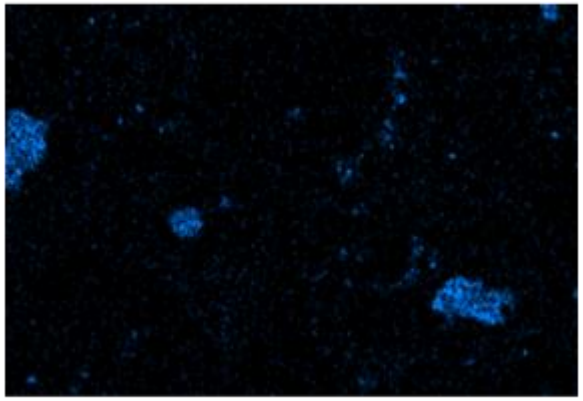
50µm

Mg Kα1_2



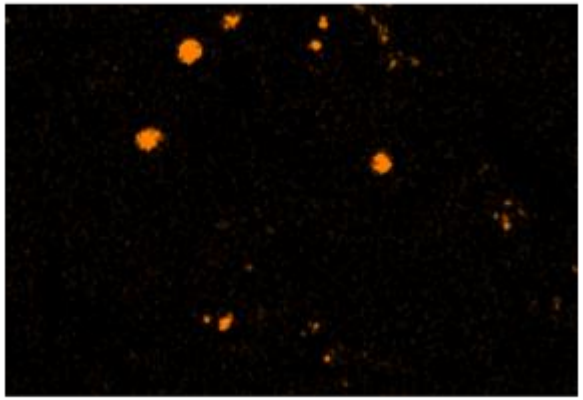
50µm

Ca Kα1



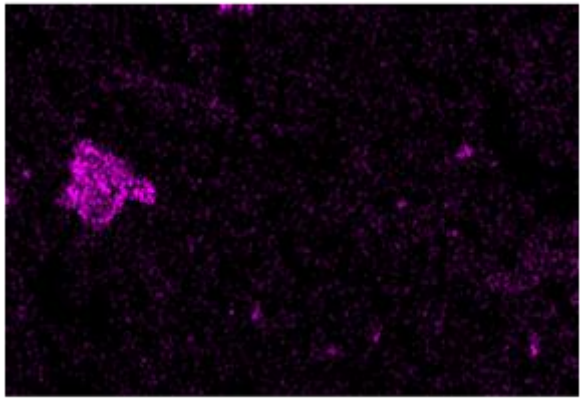
50µm

S Kα1



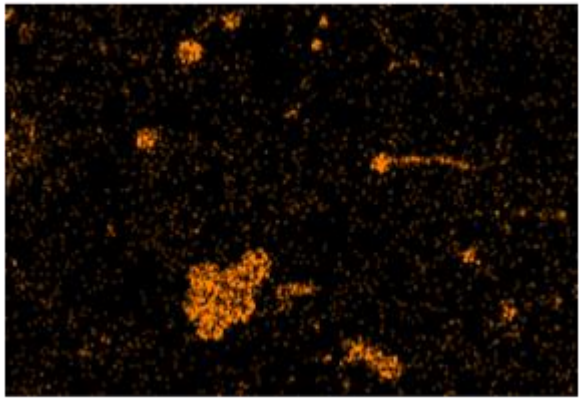
50µm

Na Kα1_2



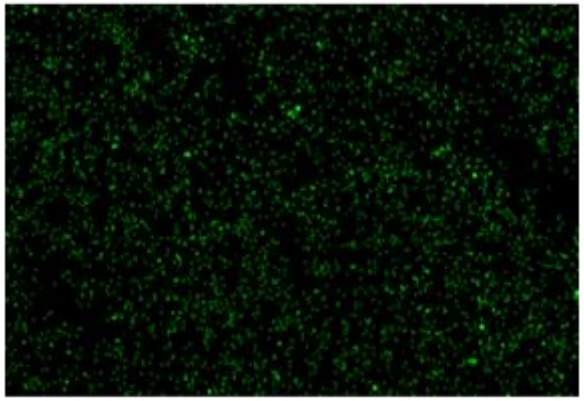
50µm

Fe Kα1



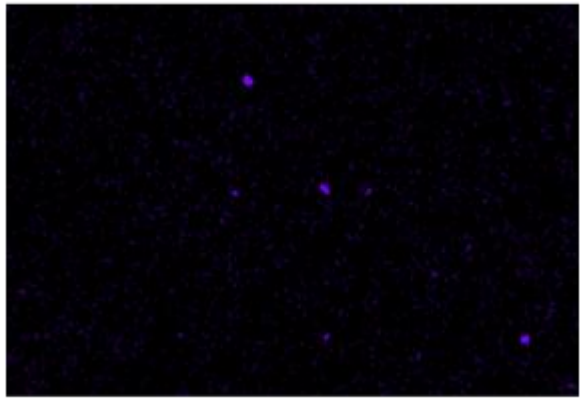
50µm

P Kα1



50µm

Ti Kα1



50µm

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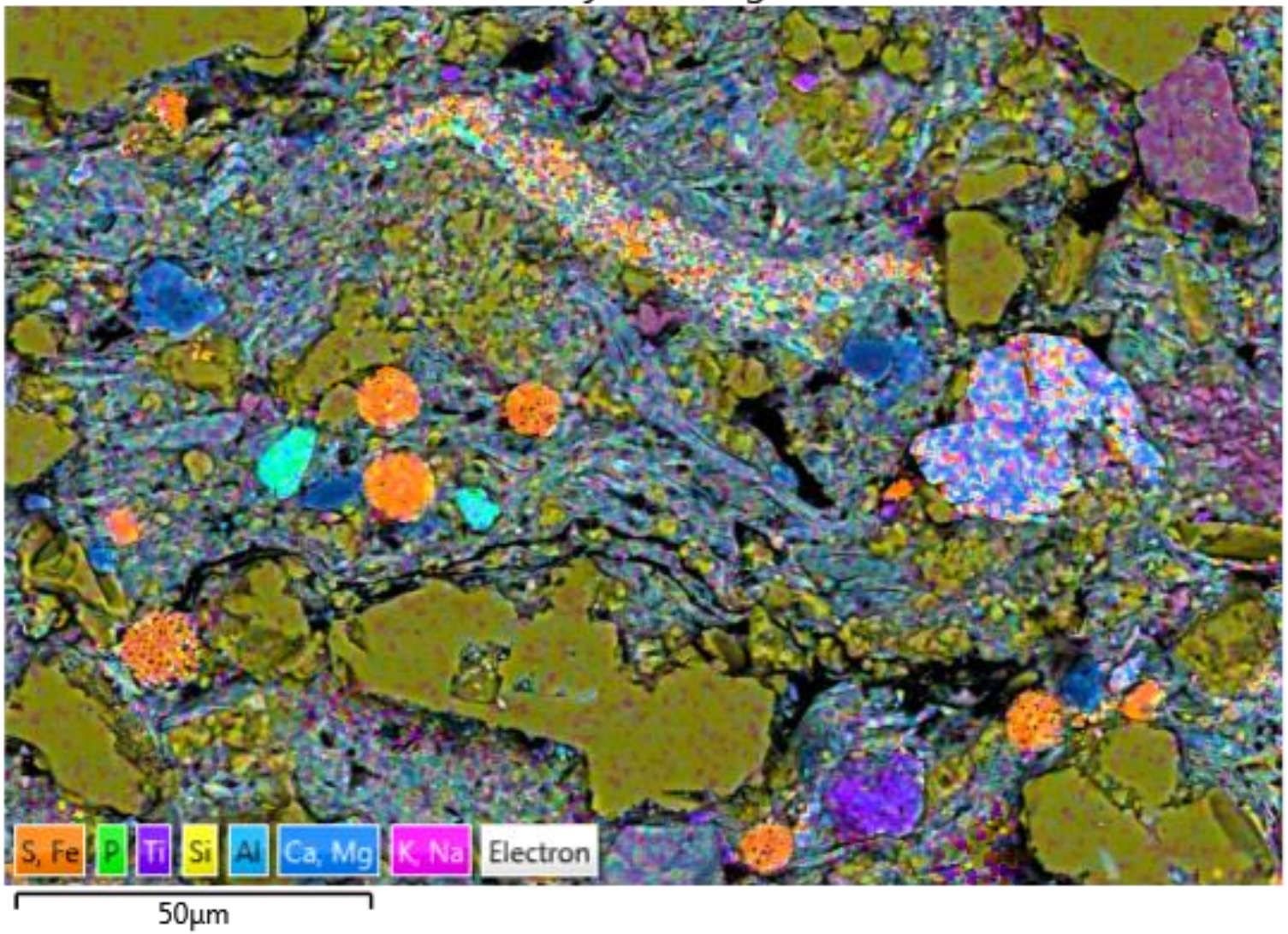
EDS Layered Image 2



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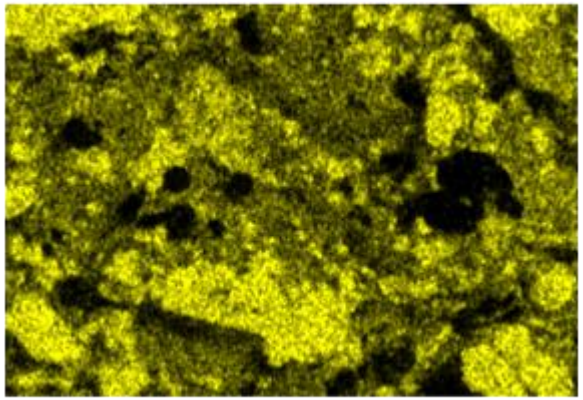
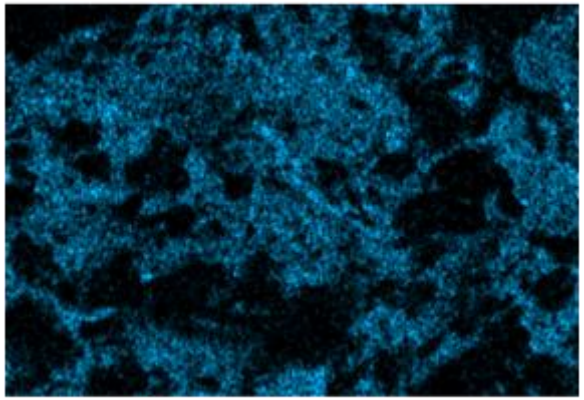
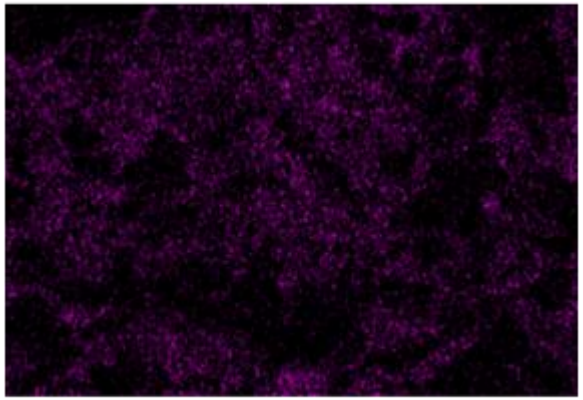
Si Kα1



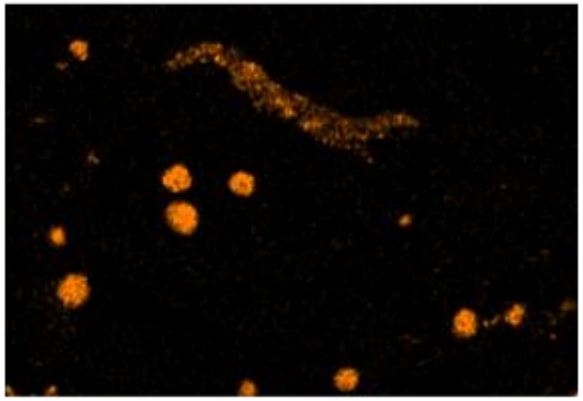
Al Kα1



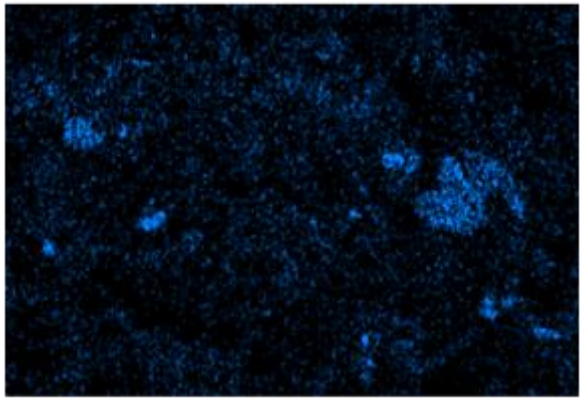
K Kα1



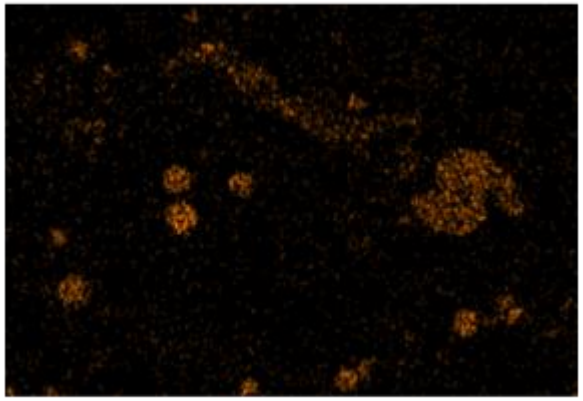
S Kα1



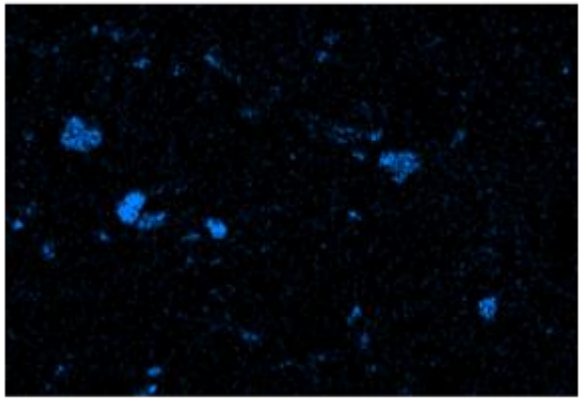
Mg Kα1_2



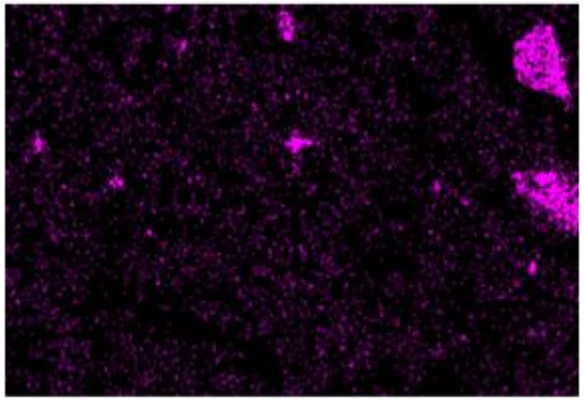
Fe Kα1



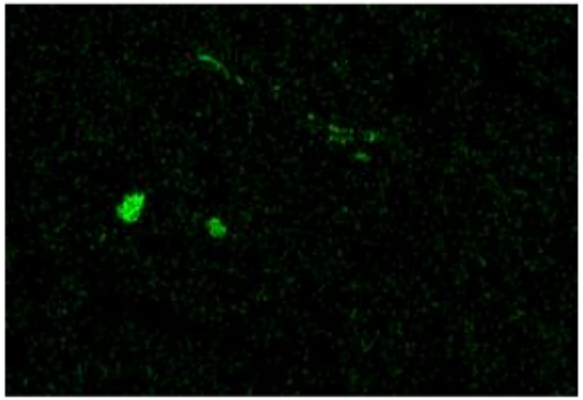
Ca Kα1



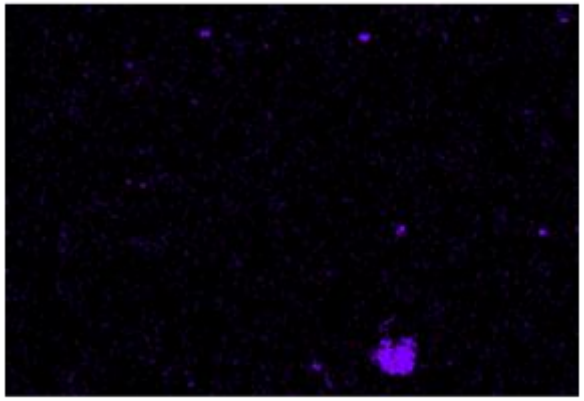
Na Kα1_2



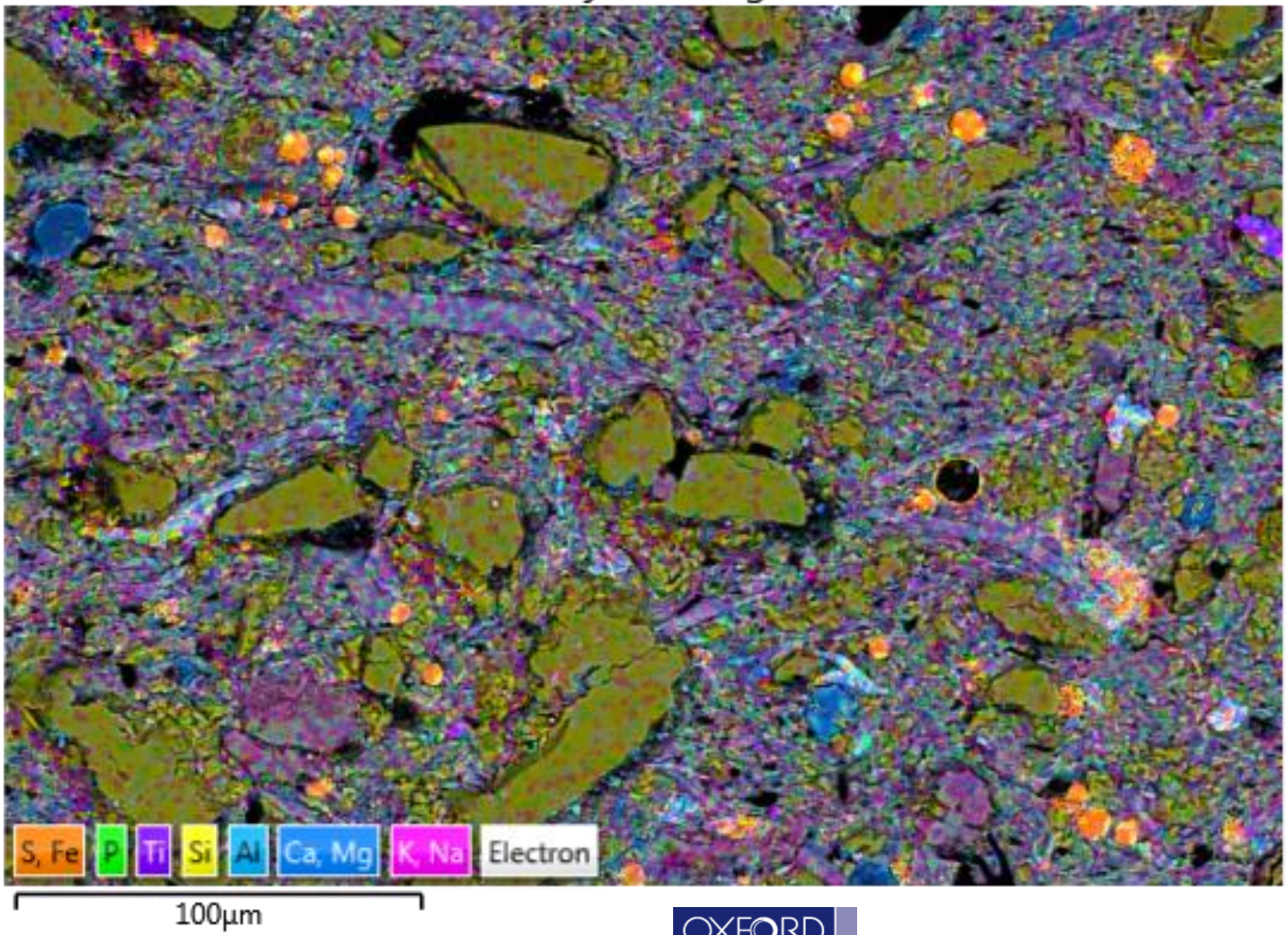
P Kα1



Ti Kα1



EDS Layered Image 3



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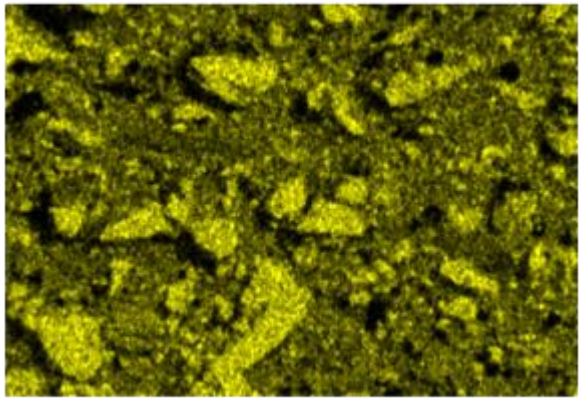
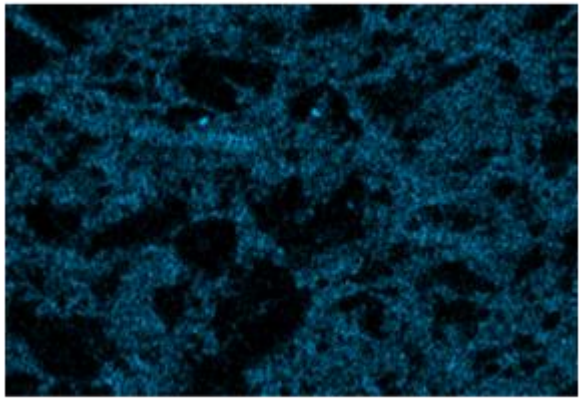
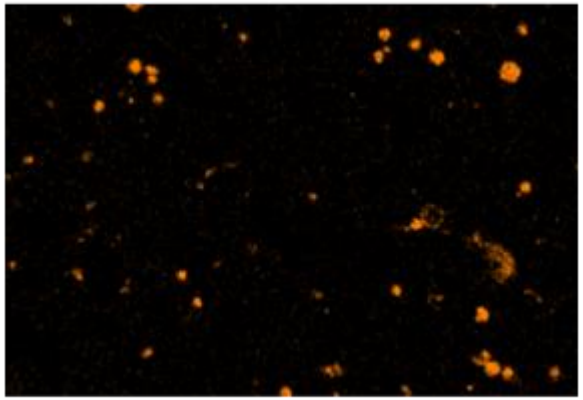
Si Kα1



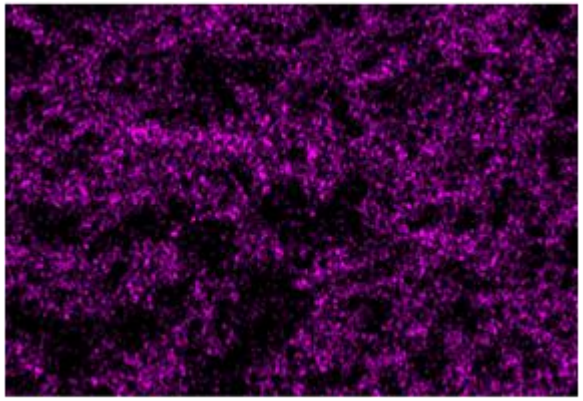
Al Kα1



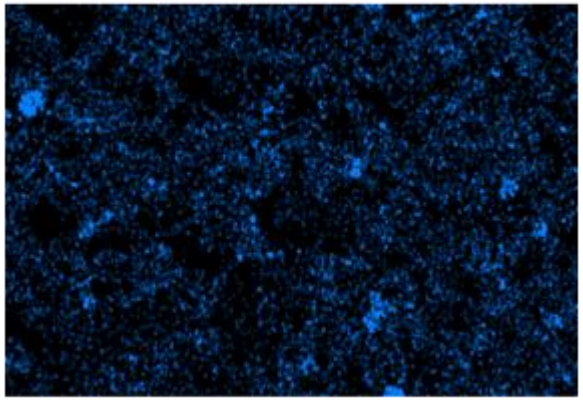
S Kα1



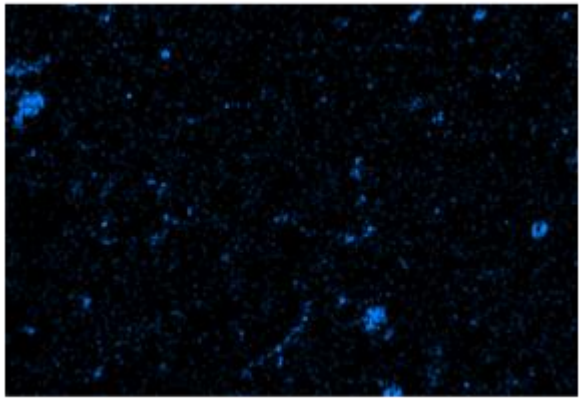
K Kα1



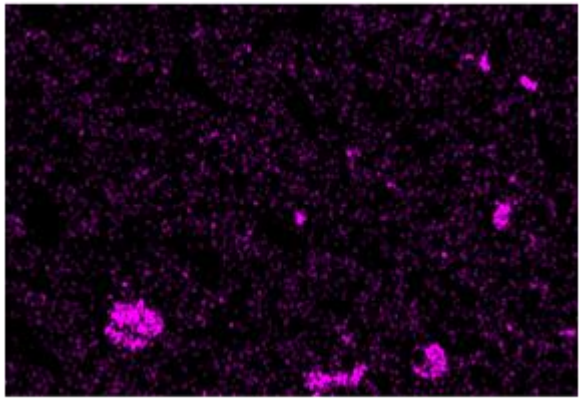
Mg Kα1_2



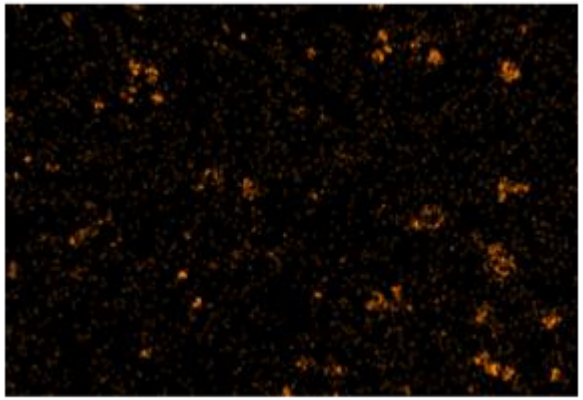
Ca Kα1



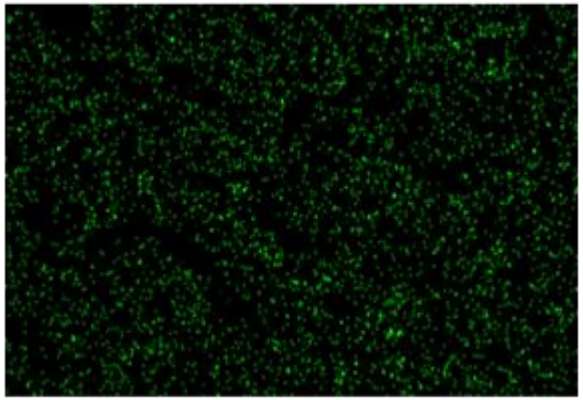
Na Kα1_2



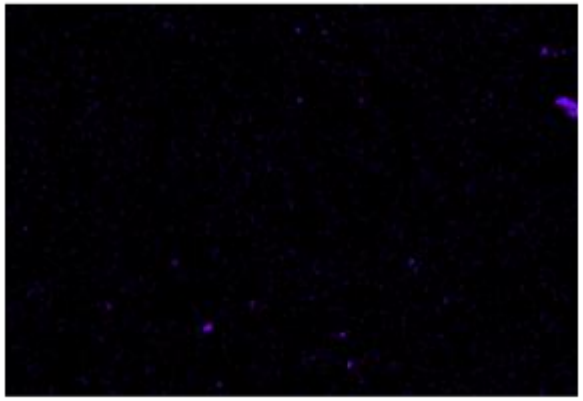
Fe Kα1



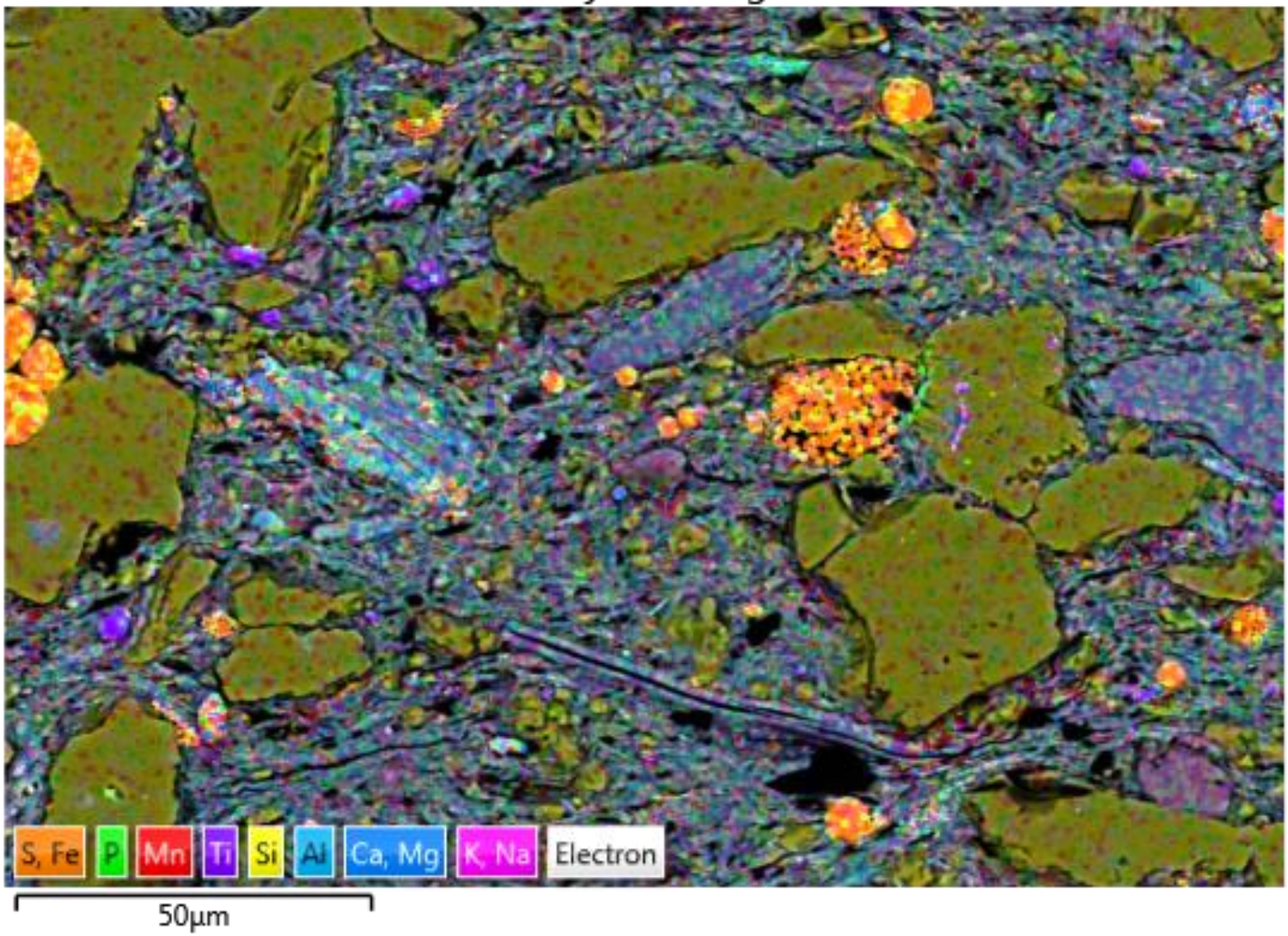
P Kα1



Ti Kα1



EDS Layered Image 1



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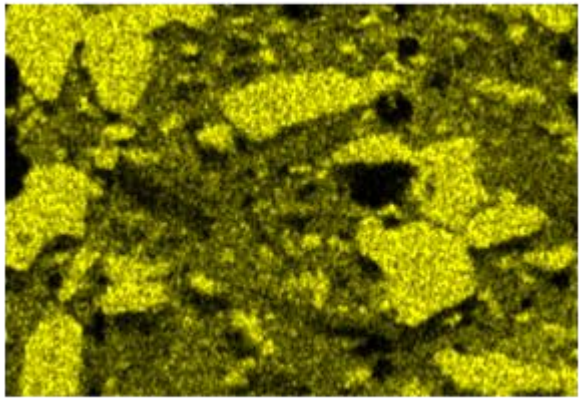
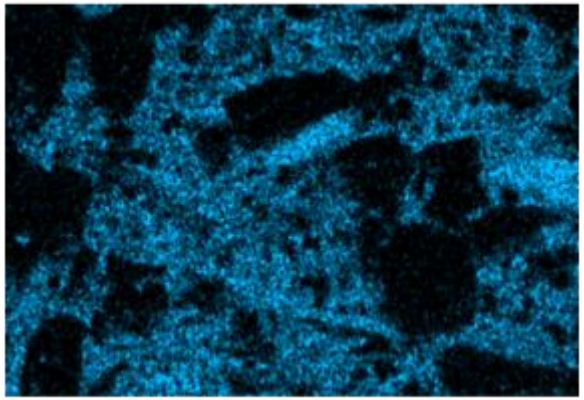
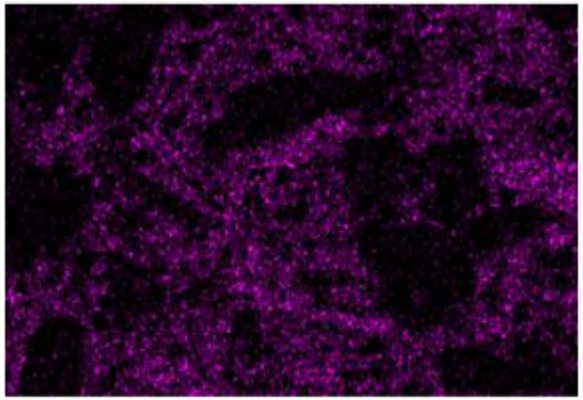
Si Kα1



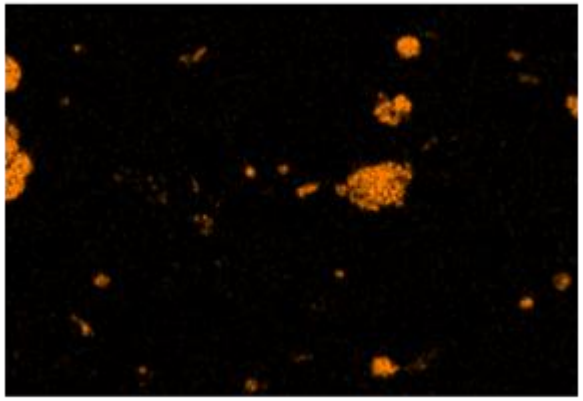
Al Kα1



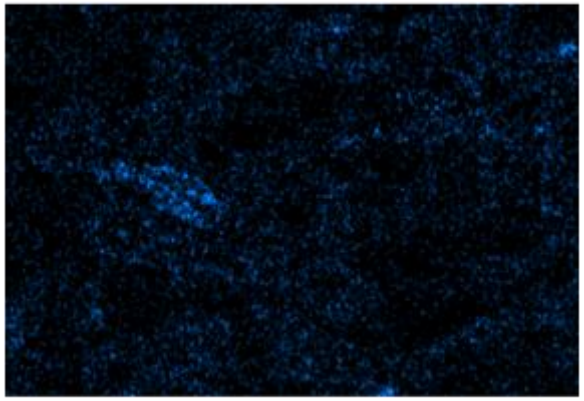
K Kα1



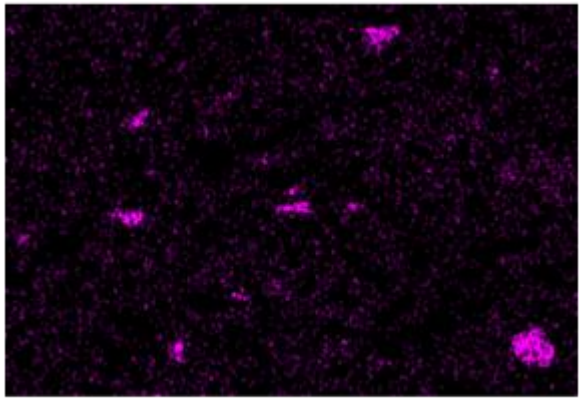
S Kα1



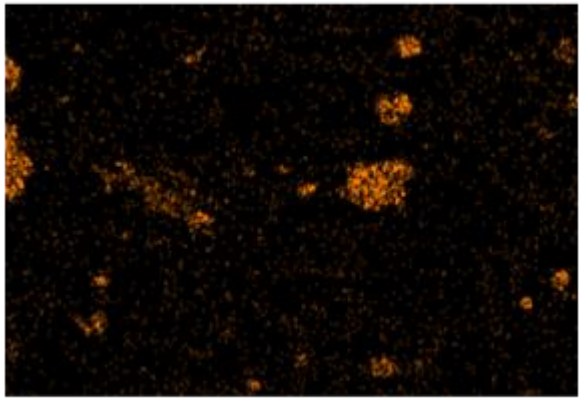
Mg Kα1_2



Na Kα1_2

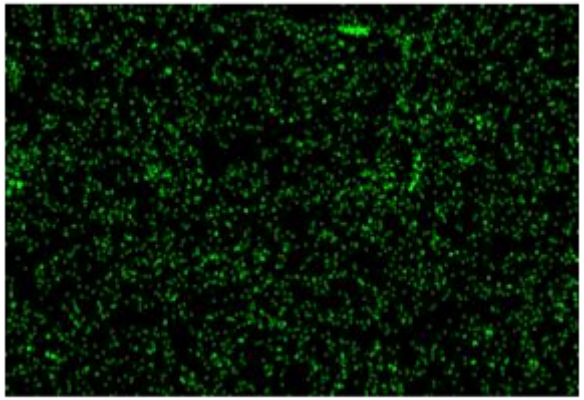


Fe Kα1



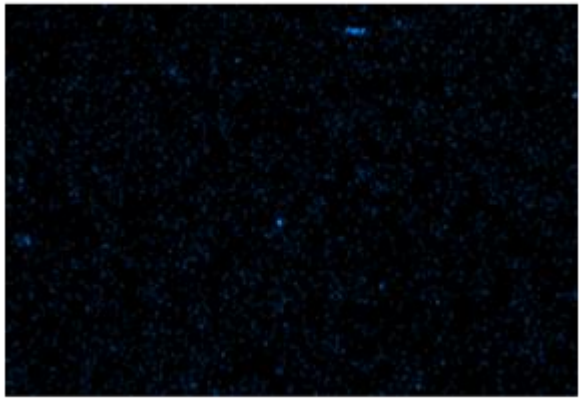
50µm

P Kα1



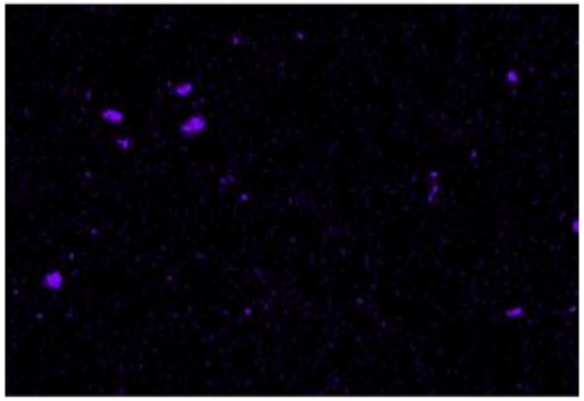
50µm

Ca Kα1



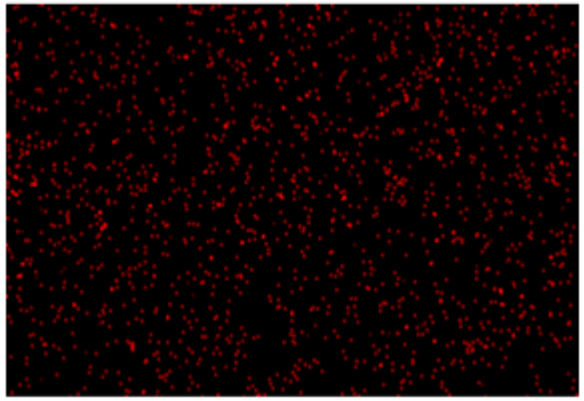
50µm

Ti Kα1



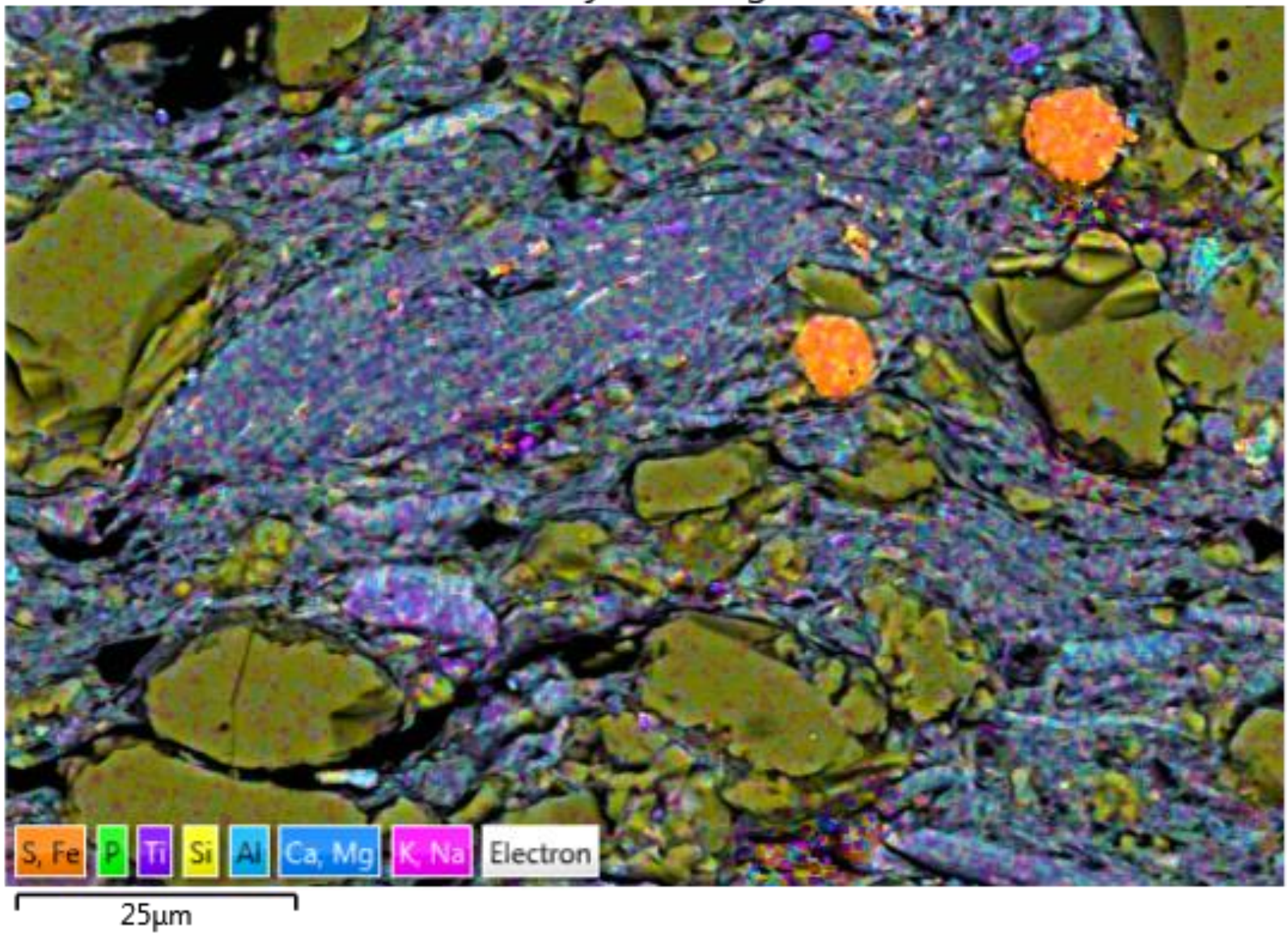
50µm

Mn Kα1



50µm

EDS Layered Image 2



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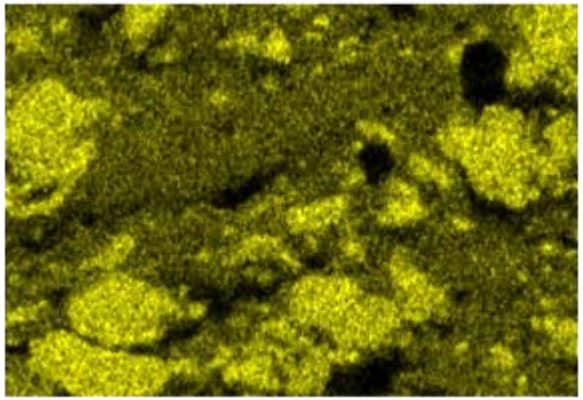
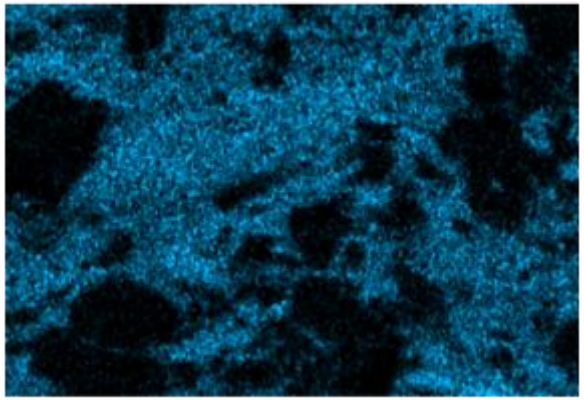
Si Kα1



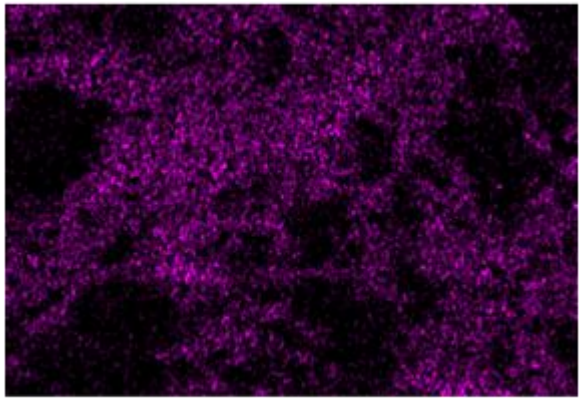
25µm

Al Kα1



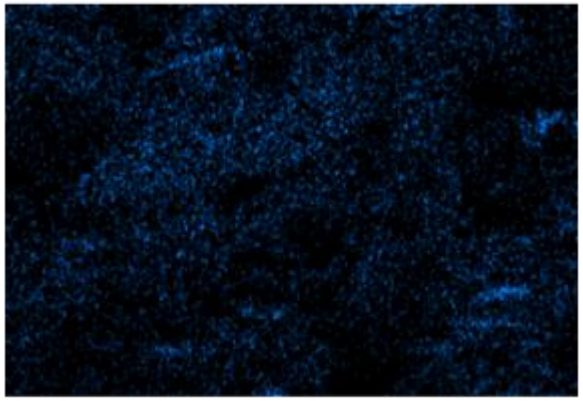
25µm

K Kα1



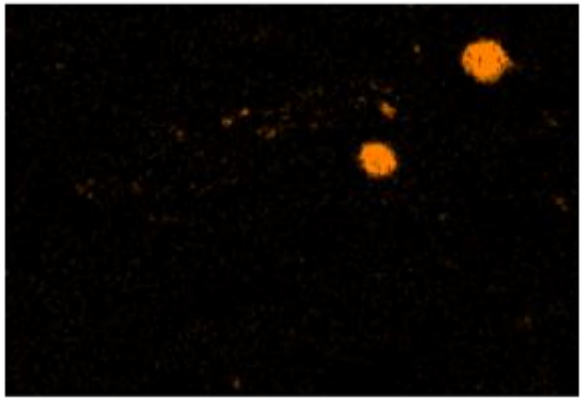
25µm

Mg Kα1_2



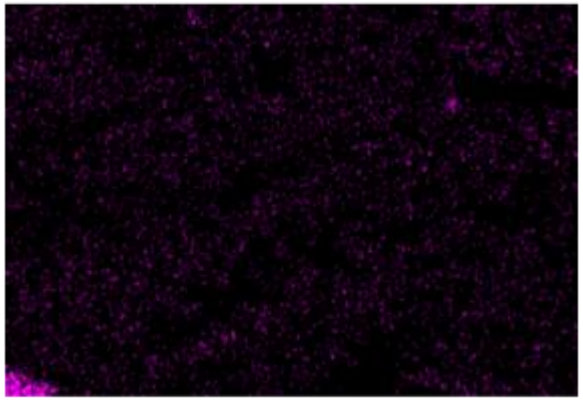
25µm

S Kα1



25µm

Na Kα1_2



25µm

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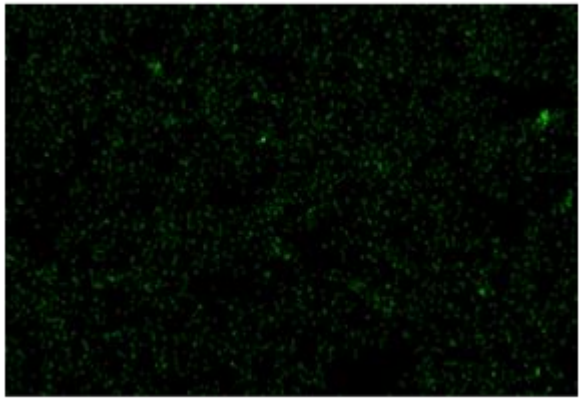
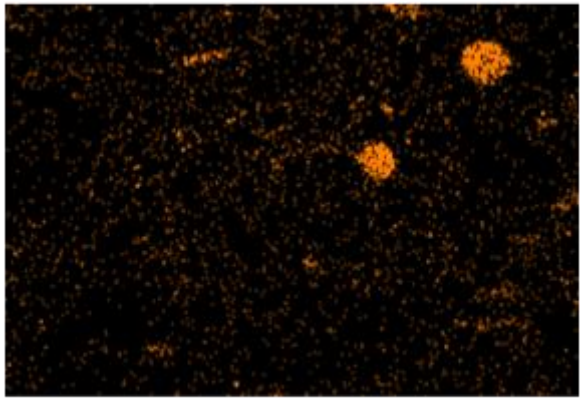
P Kα1



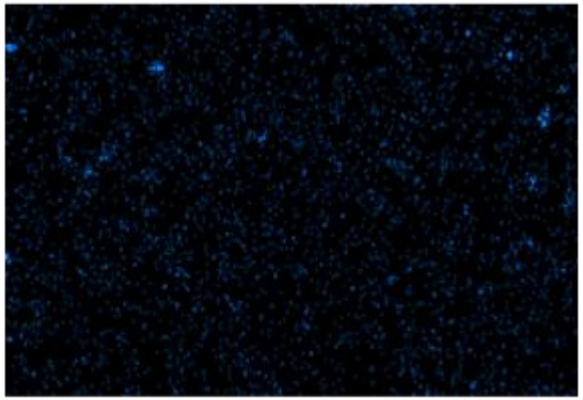
25µm

Fe Kα1



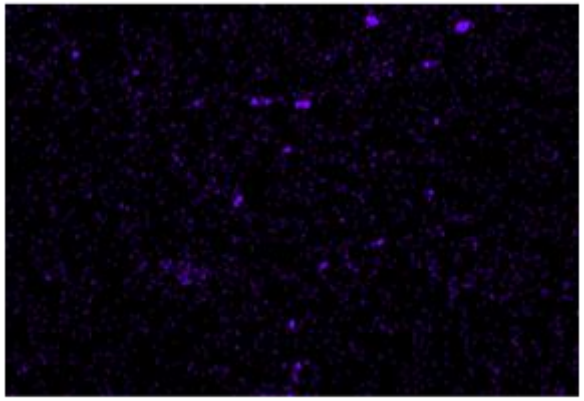
25µm

Ca Kα1



25µm

Ti Kα1



25µm

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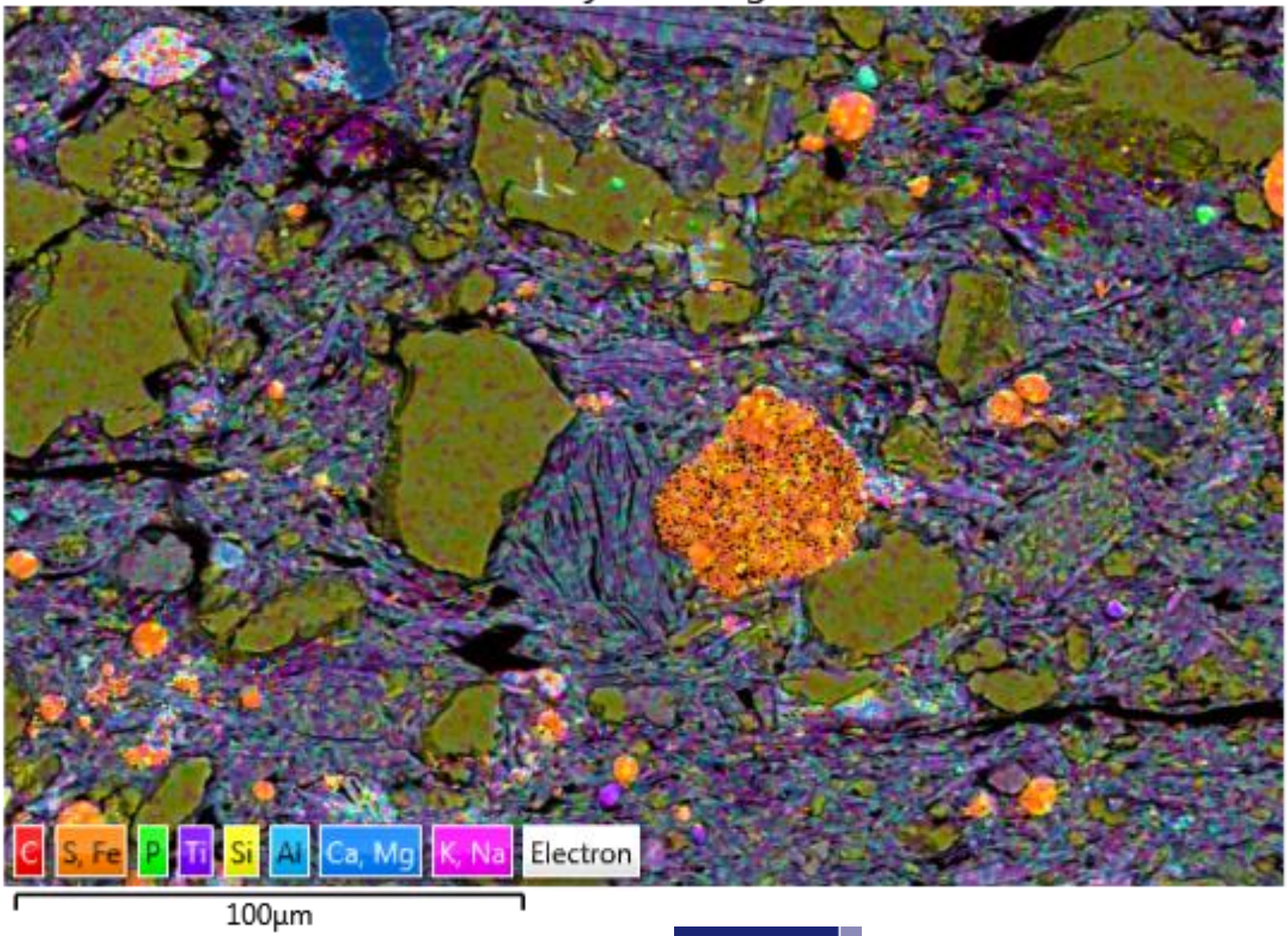
EDS Layered Image 5



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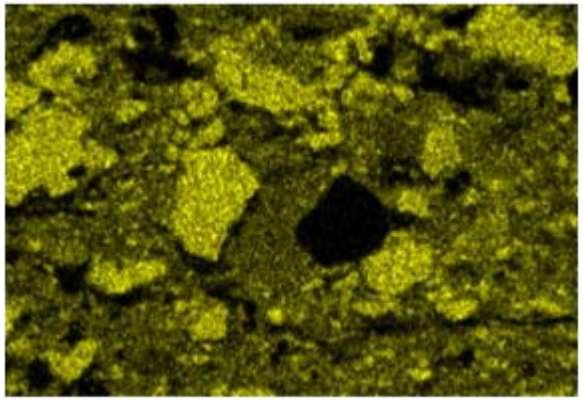
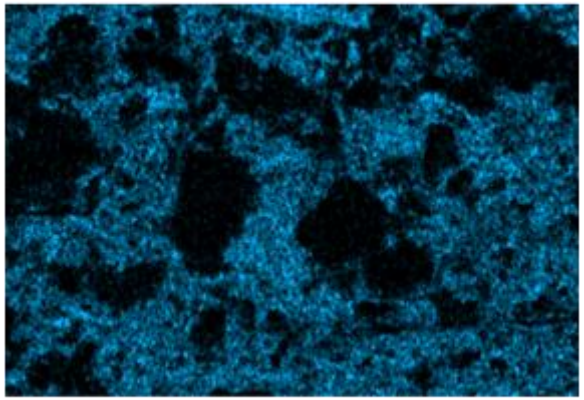
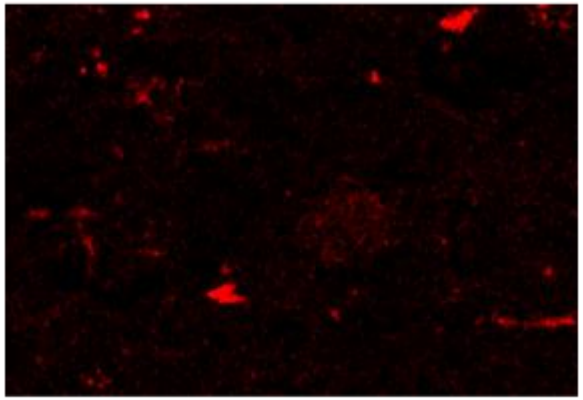
Si Kα1



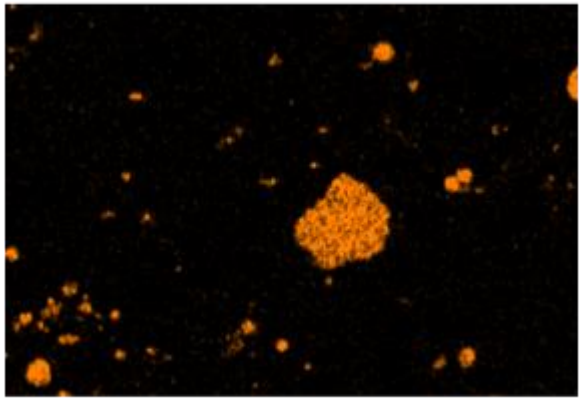
Al Kα1



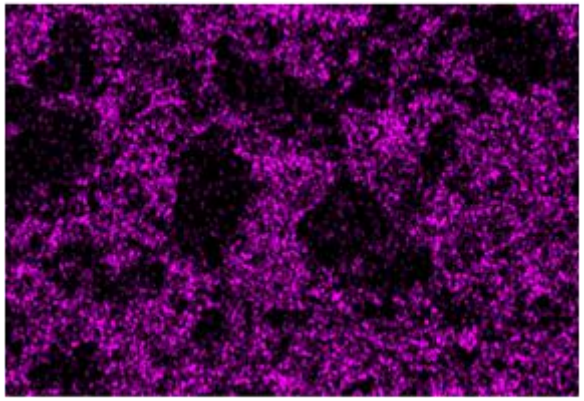
C Kα1_2



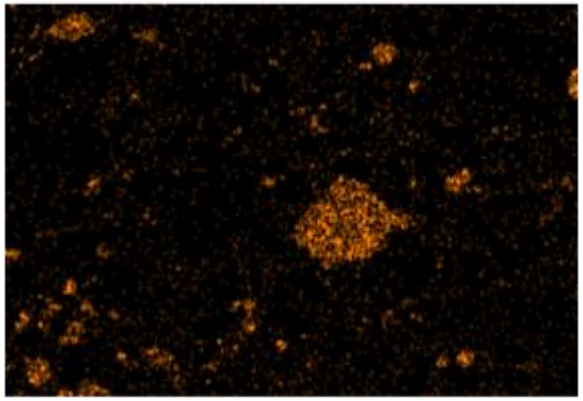
S Kα1



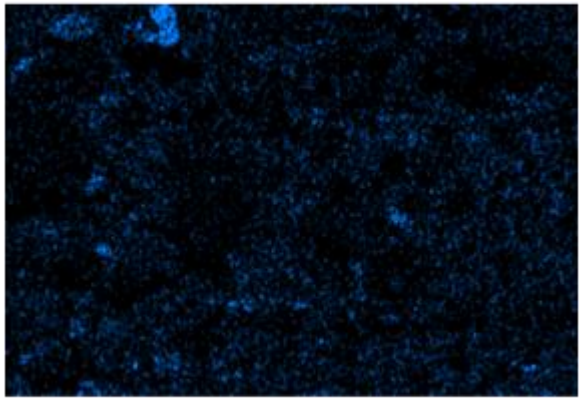
K Kα1



Fe Kα1

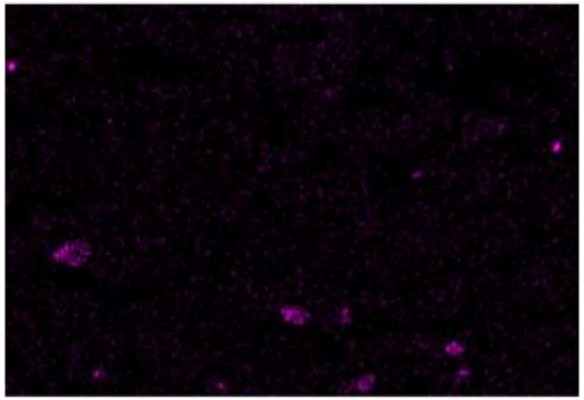


Mg Kα1_2



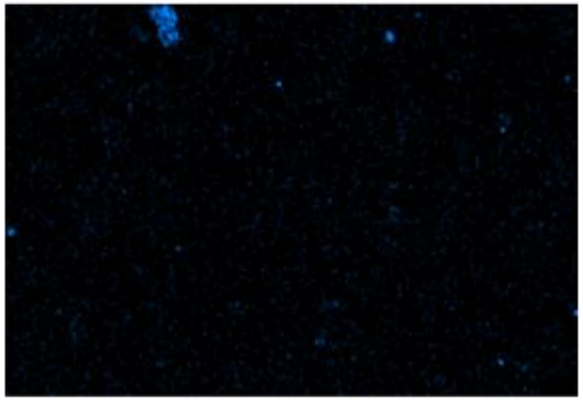
100µm

Na Kα1_2



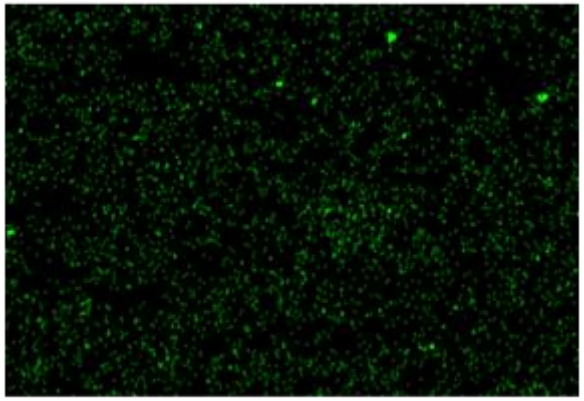
100µm

Ca Kα1



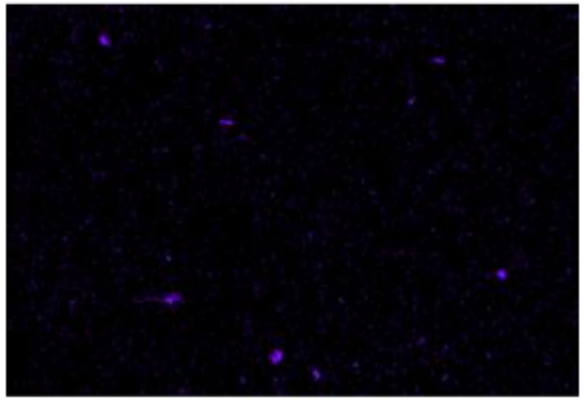
100µm

P Kα1



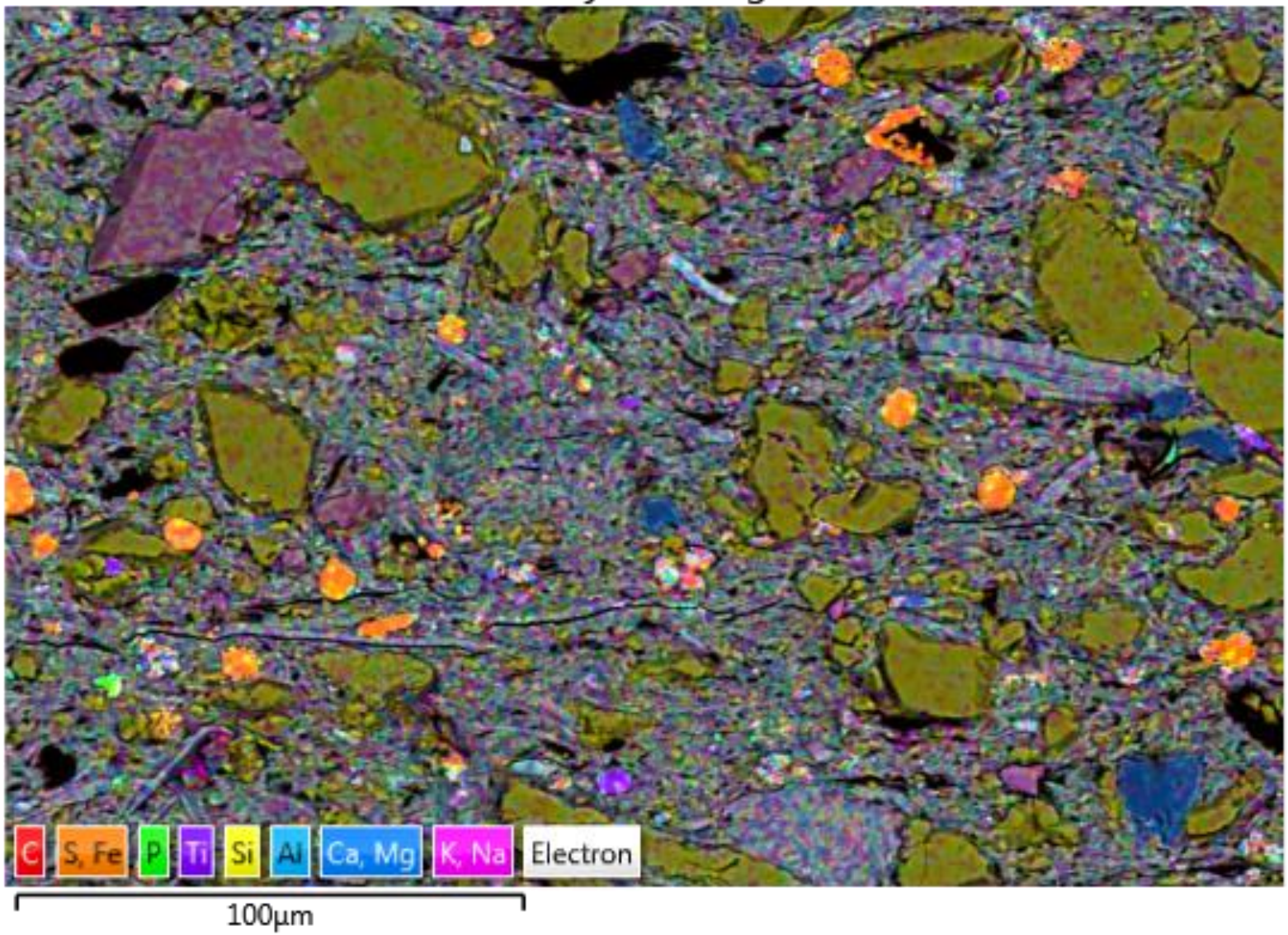
100µm

Ti Kα1



100µm

EDS Layered Image 6



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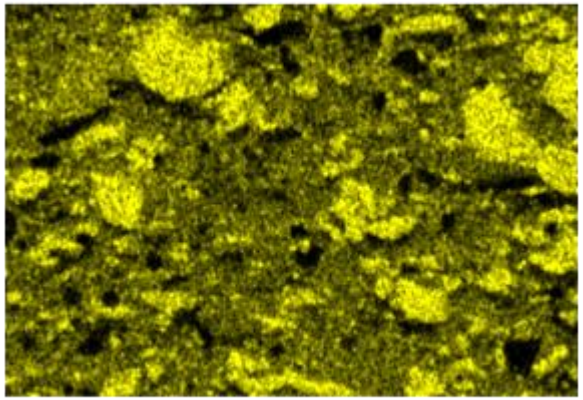
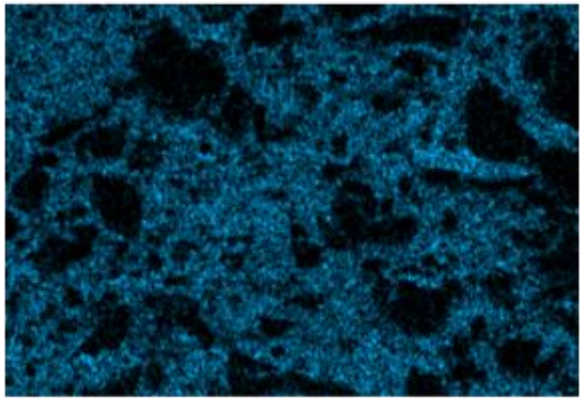
Si Kα1



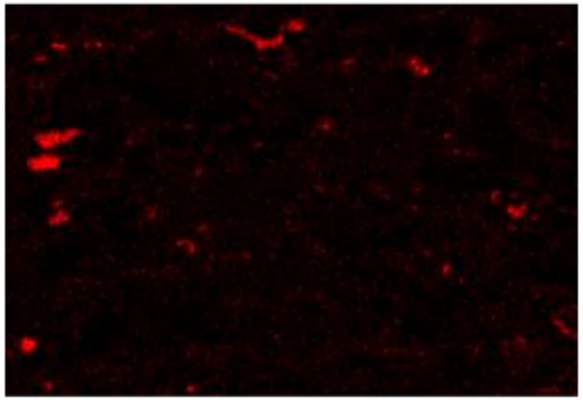
100µm

Al Kα1



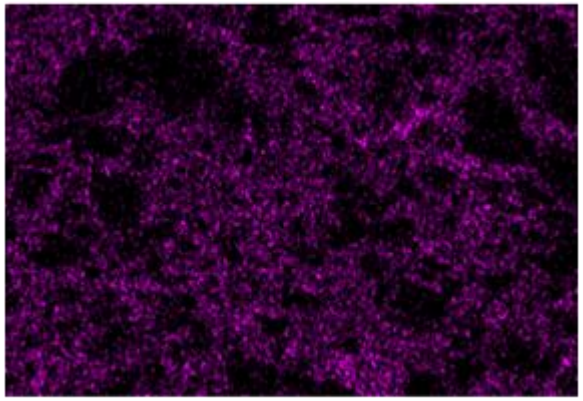
100µm

C Kα1_2



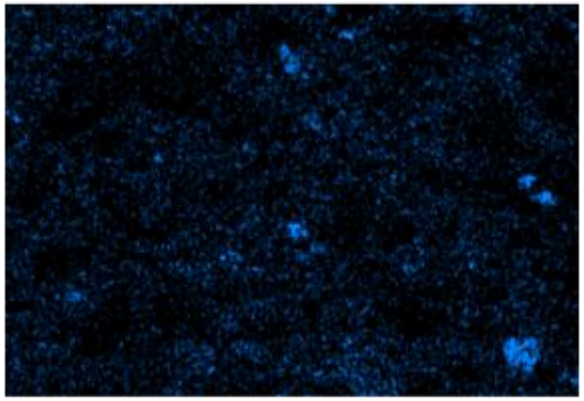
100µm

K Kα1



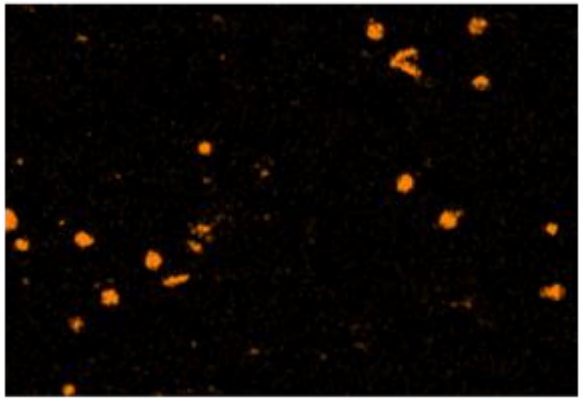
100µm

Mg Kα1_2



100µm

S Kα1



100µm

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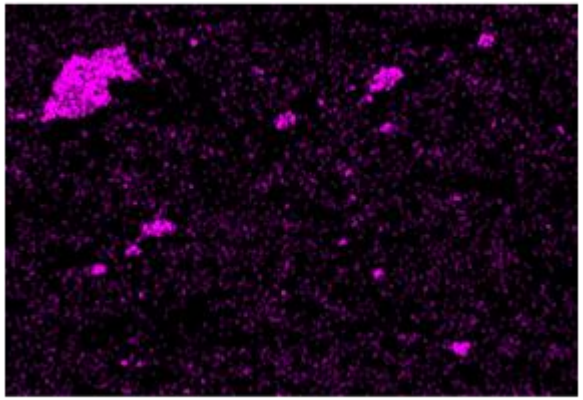
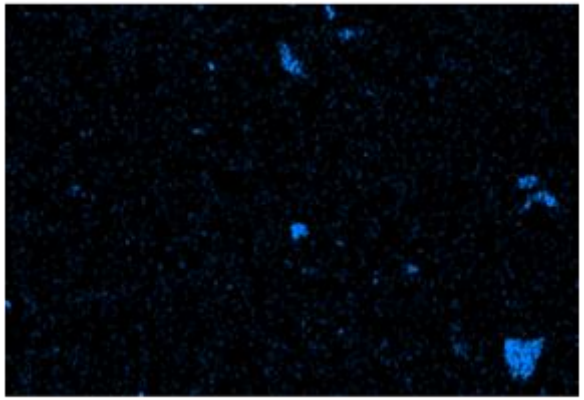
Na Kα1_2



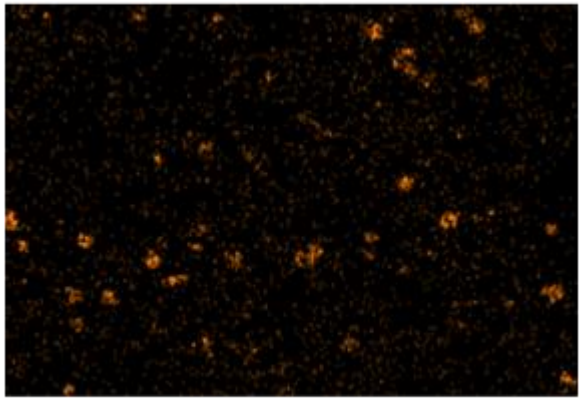
100µm

Ca Kα1



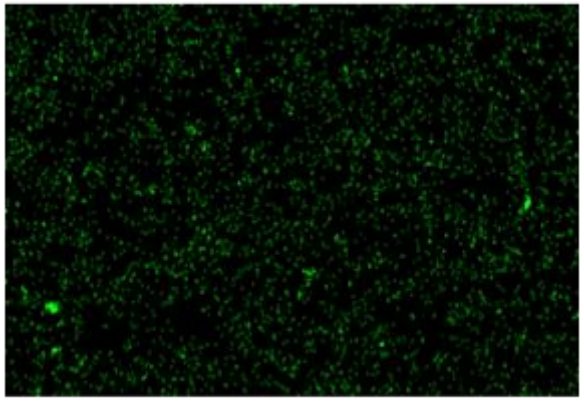
100µm

Fe Kα1



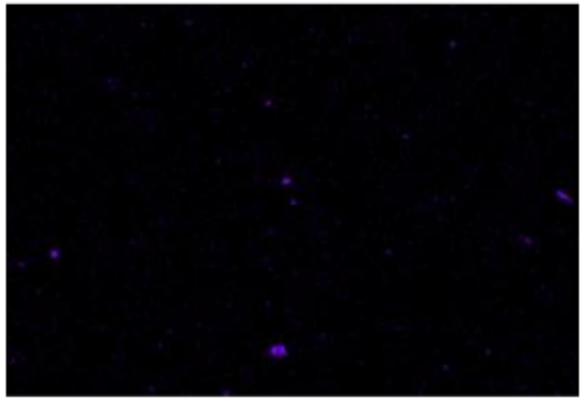
100µm

P Kα1



100µm

Ti Kα1



100µm

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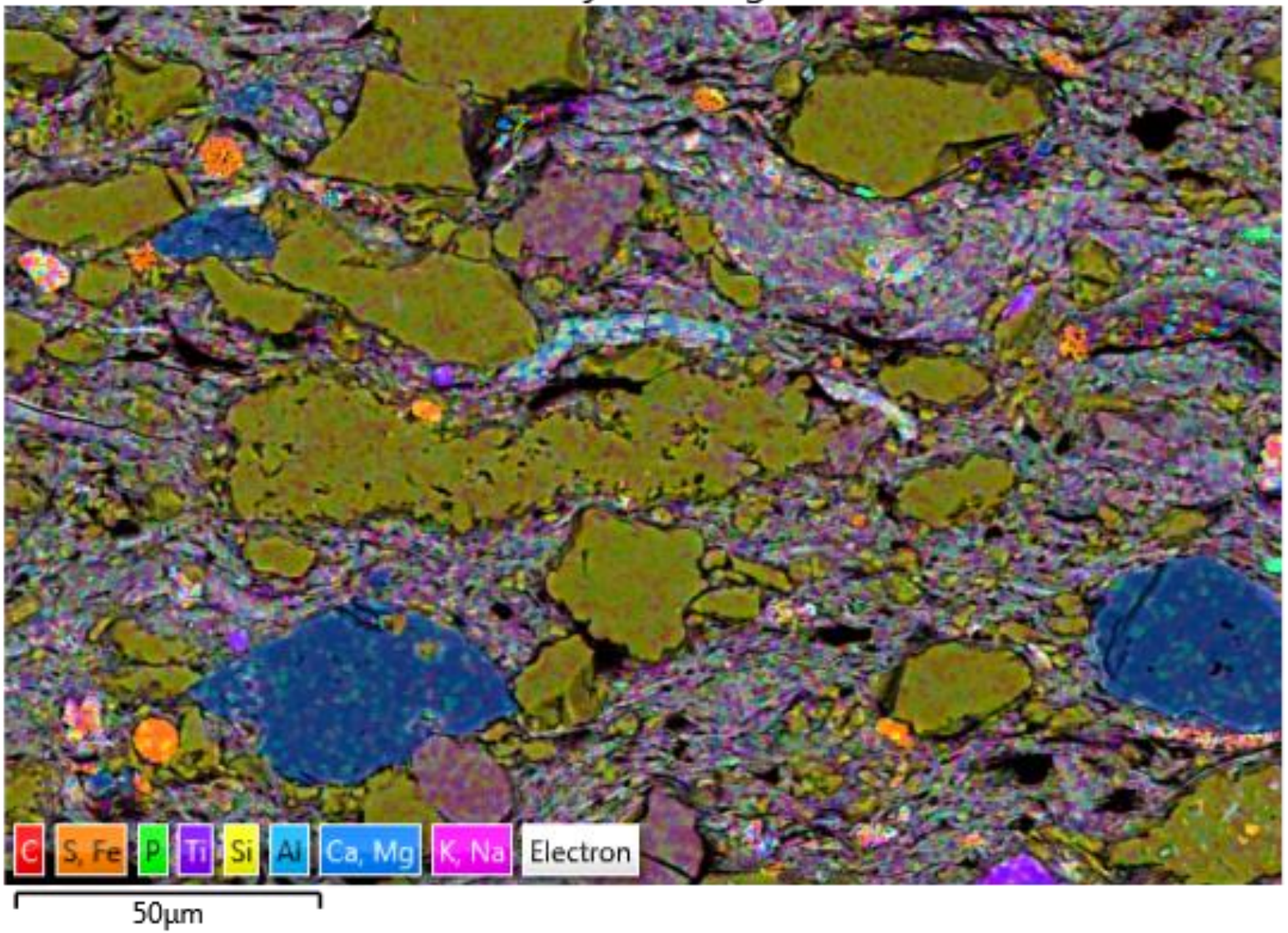
EDS Layered Image 7



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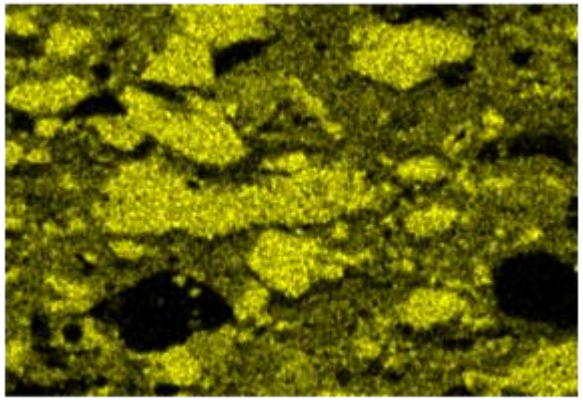
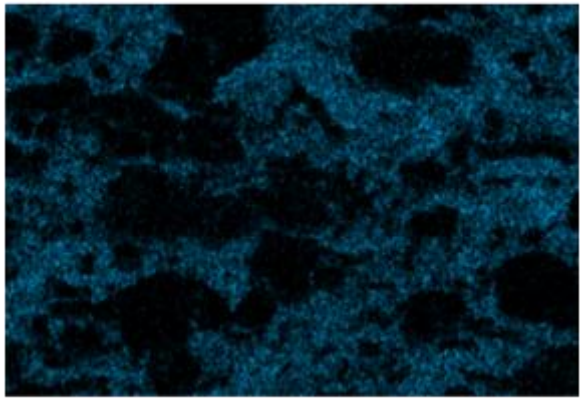
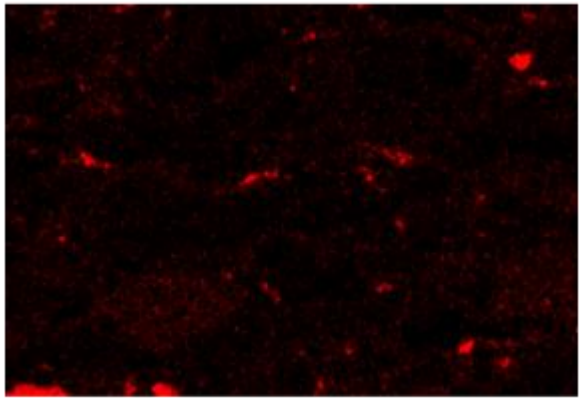
Si Kα1



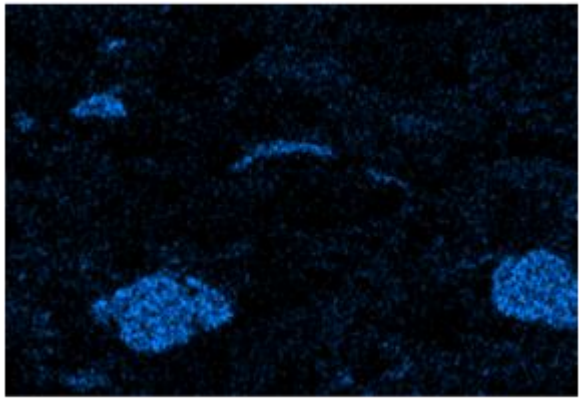
Al Kα1



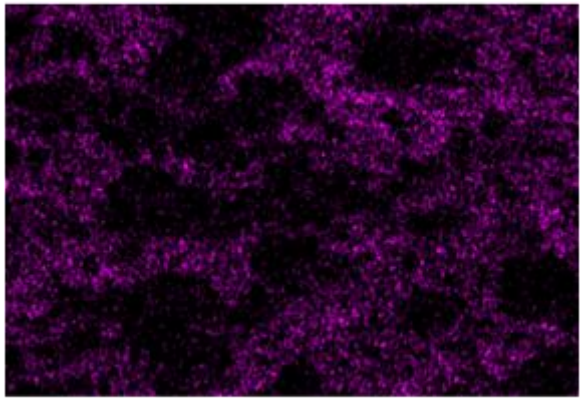
C Kα1_2



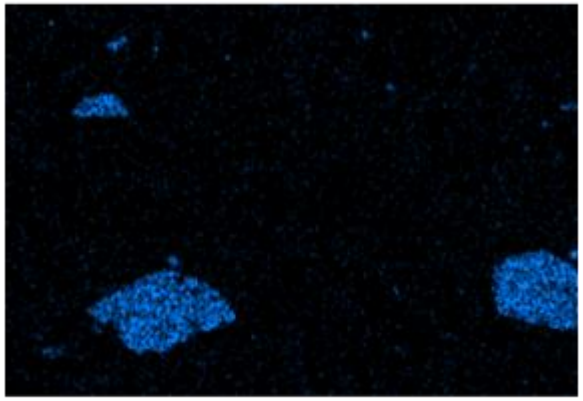
Mg Kα1_2



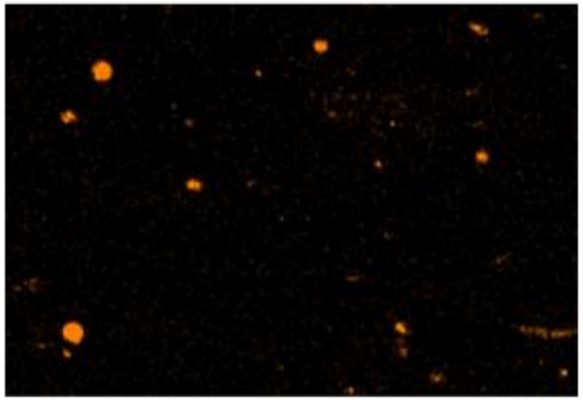
K Kα1



Ca Kα1

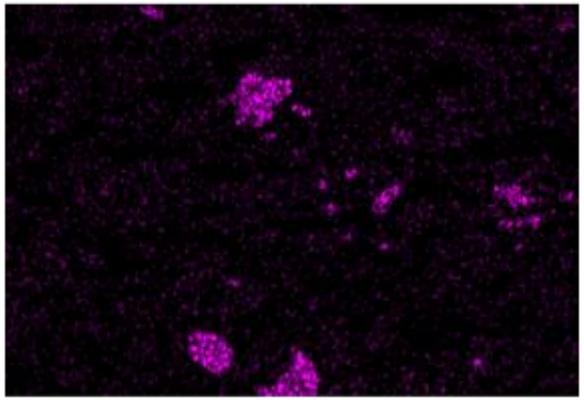


S Kα1



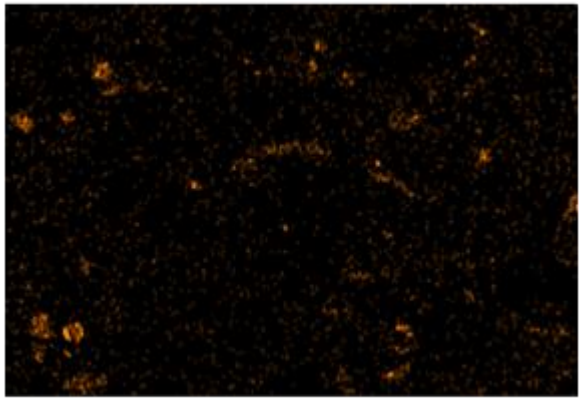
50µm

Na Kα1_2



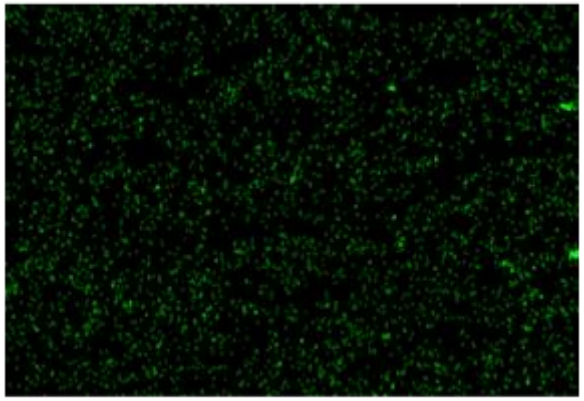
50µm

Fe Kα1



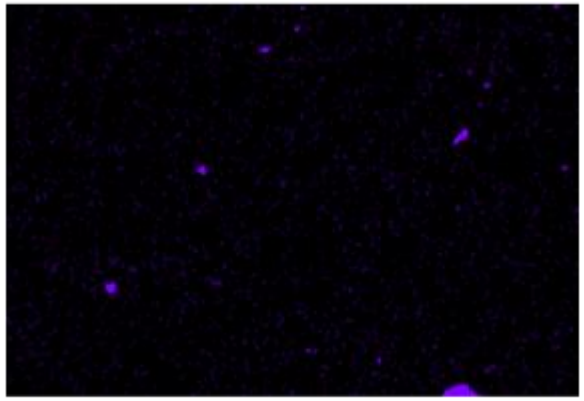
50µm

P Kα1



50µm

Ti Kα1



50µm

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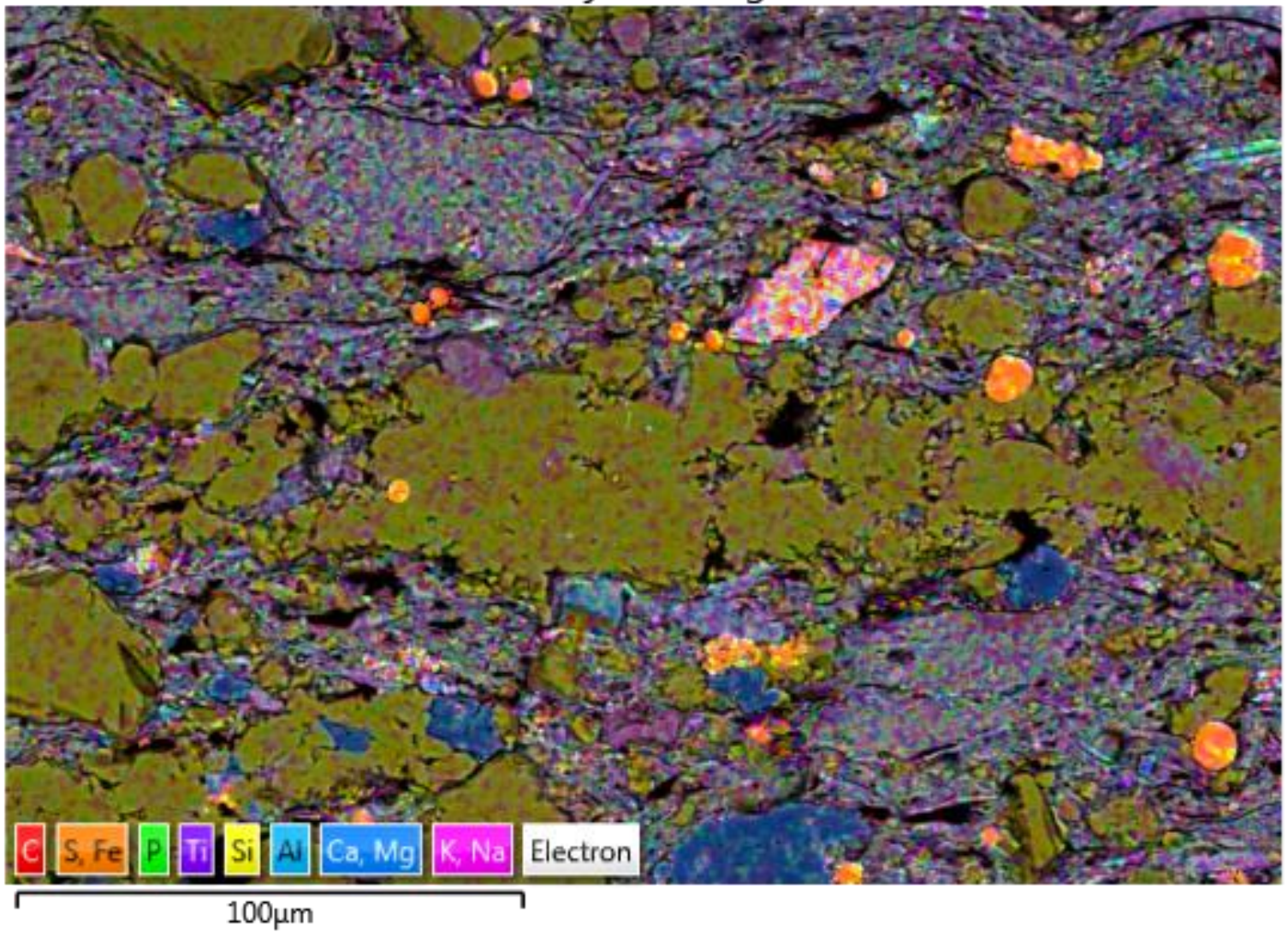
EDS Layered Image 8



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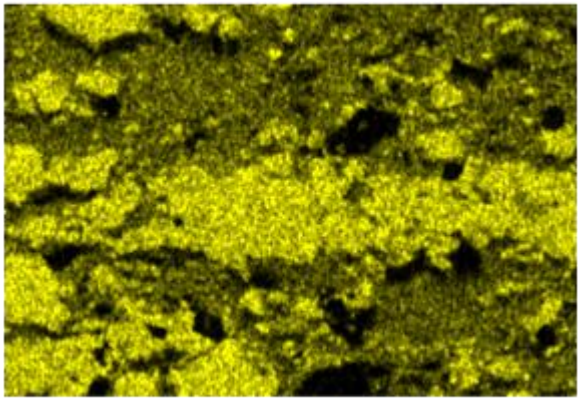
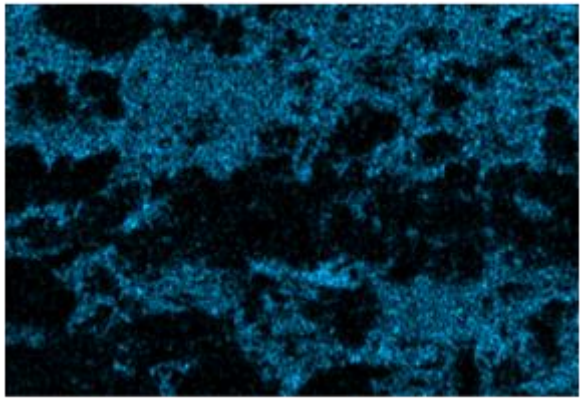
Si Kα1



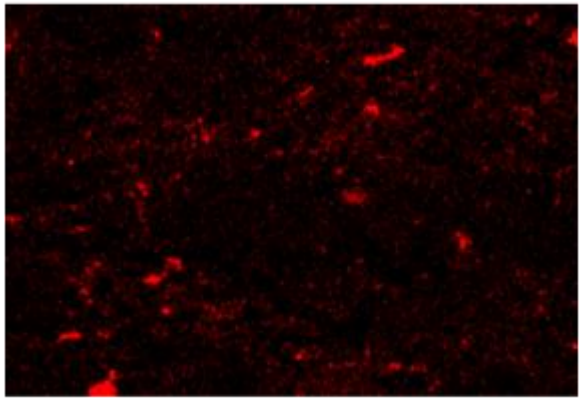
100µm

Al Kα1



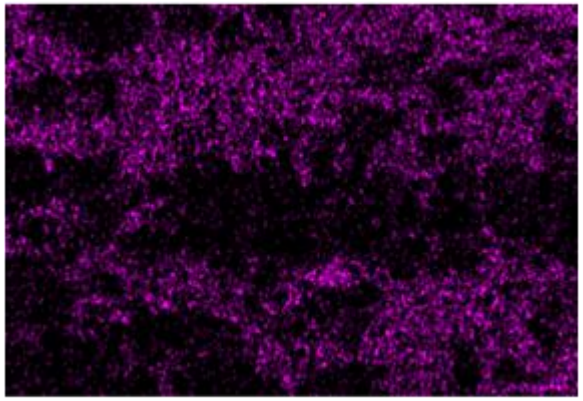
100µm

C Kα1_2



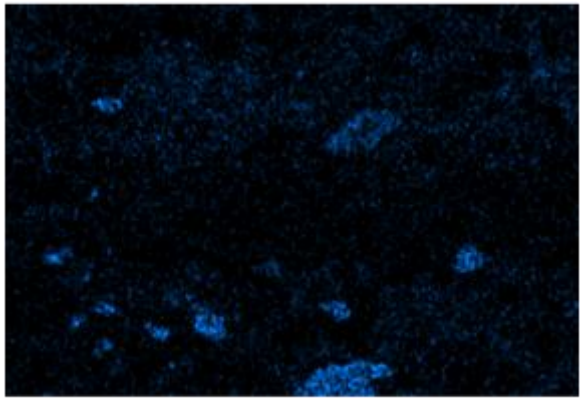
100µm

K Kα1



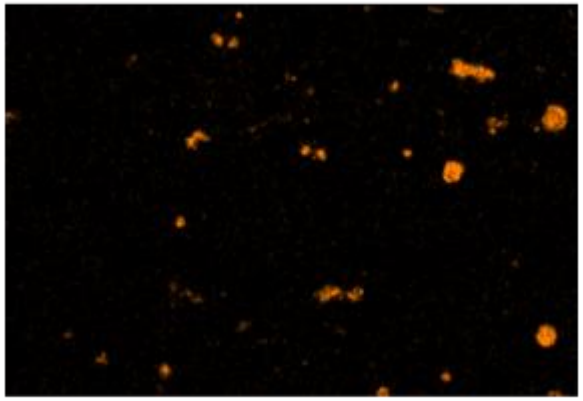
100µm

Mg Kα1_2



100µm

S Kα1



100µm

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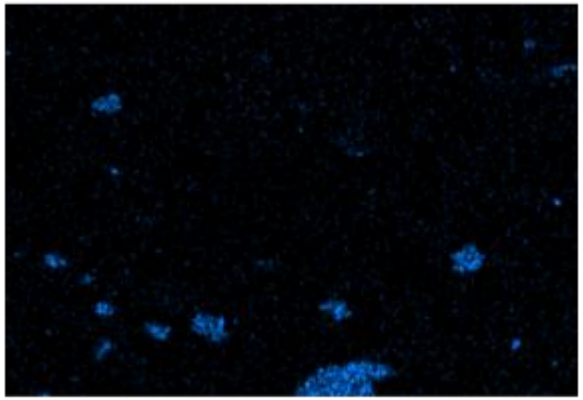
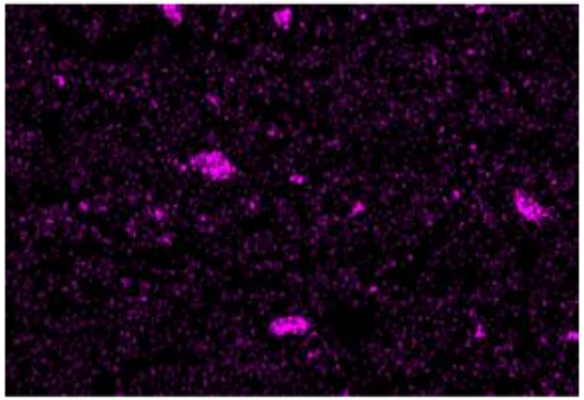
Ca Kα1



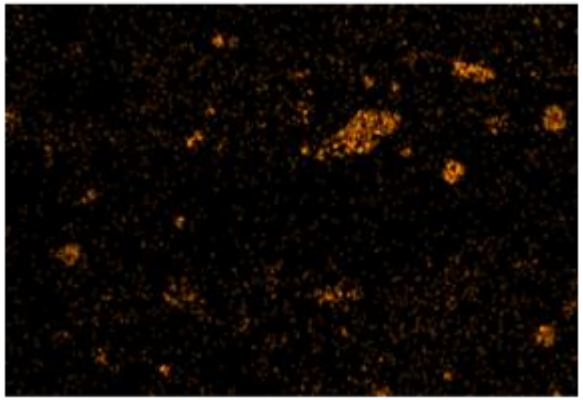
100µm

Na Kα1_2



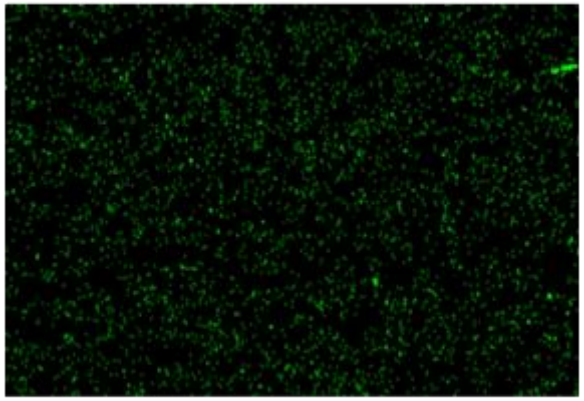
100µm

Fe Kα1



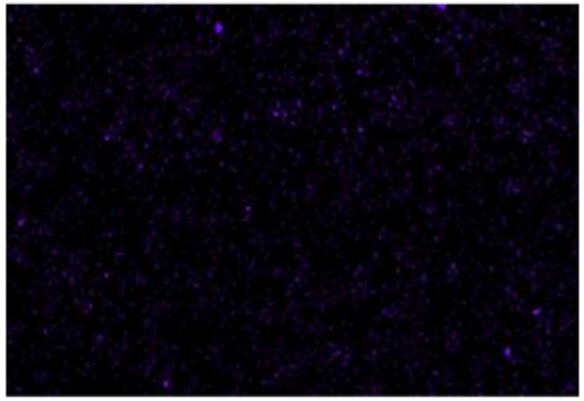
100µm

P Kα1



100µm

Ti Kα1



100µm

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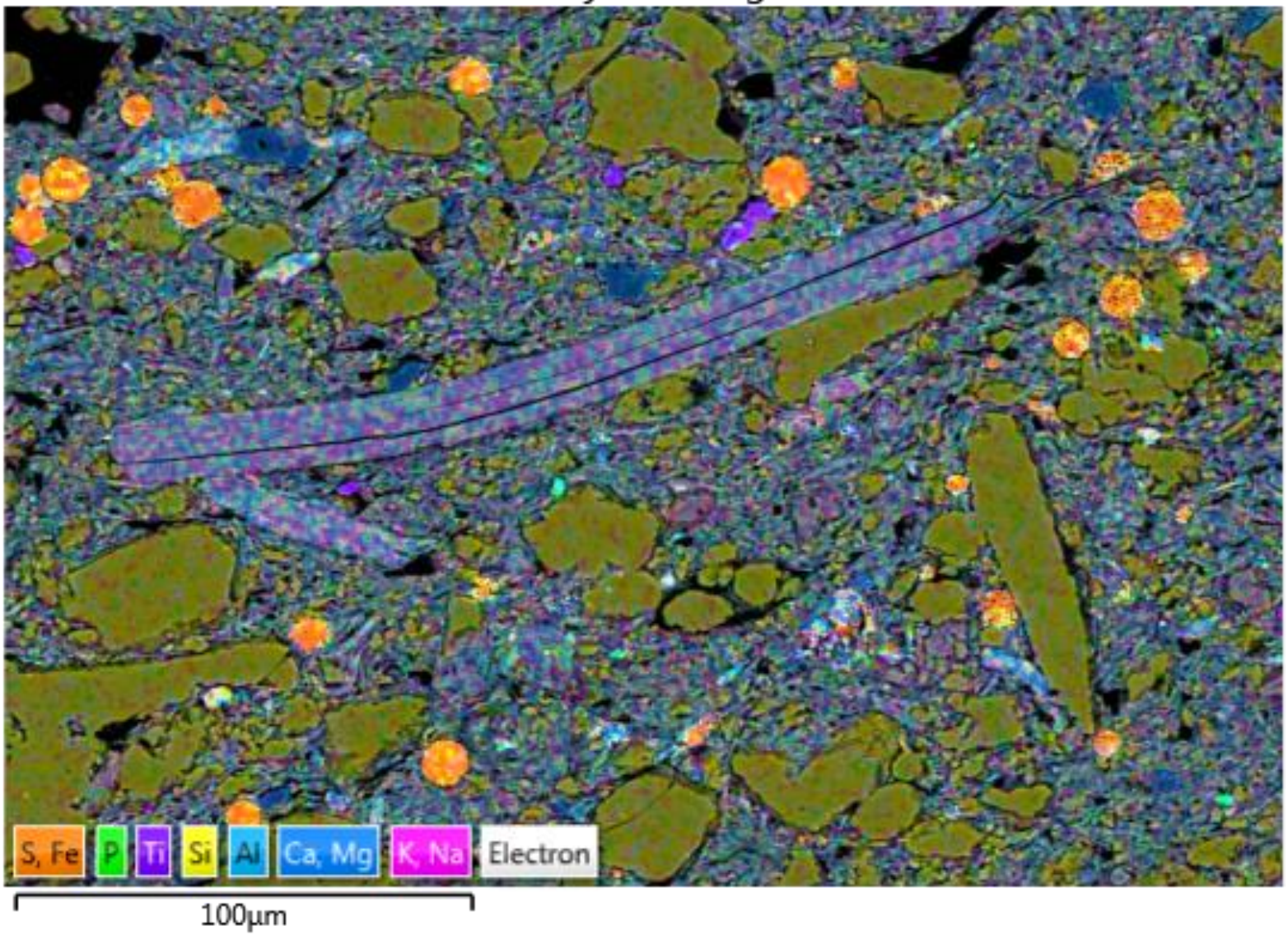
EDS Layered Image 1



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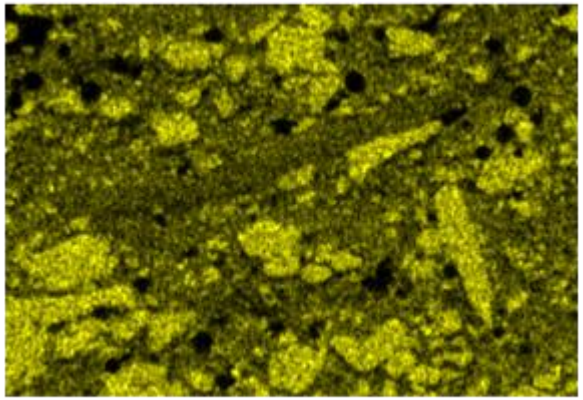
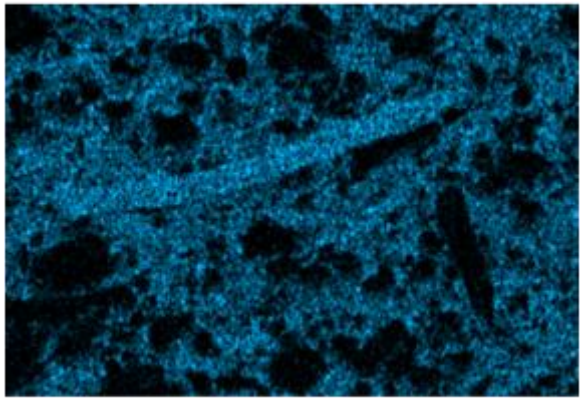
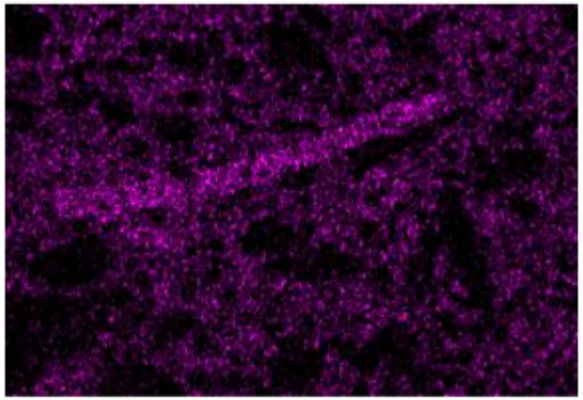
Si Kα1



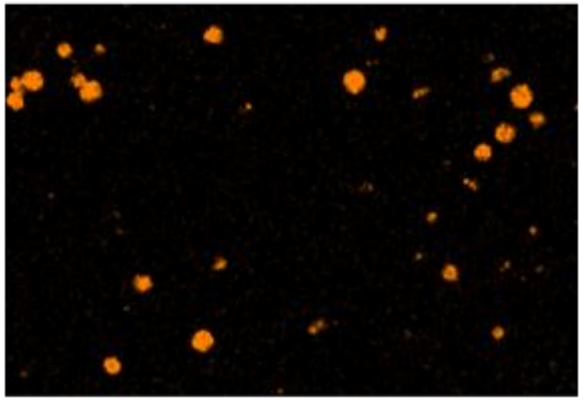
Al Kα1



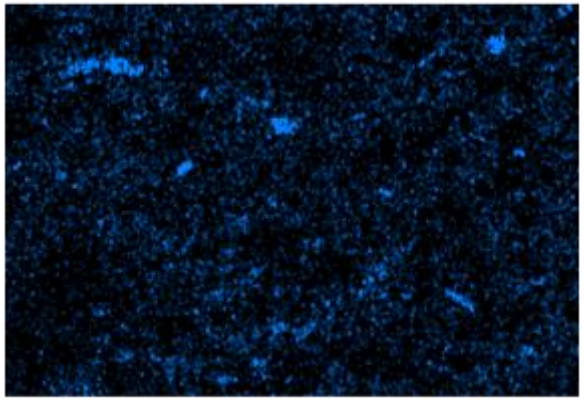
K Kα1



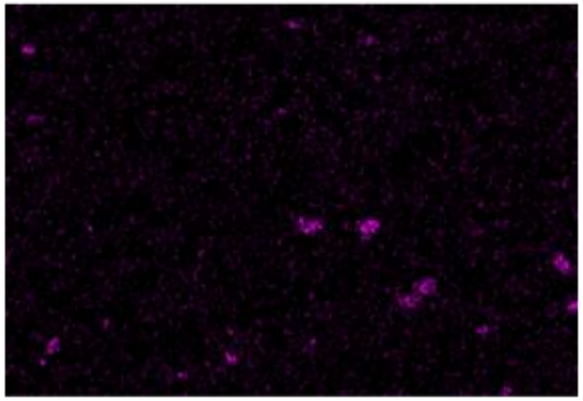
S Kα1



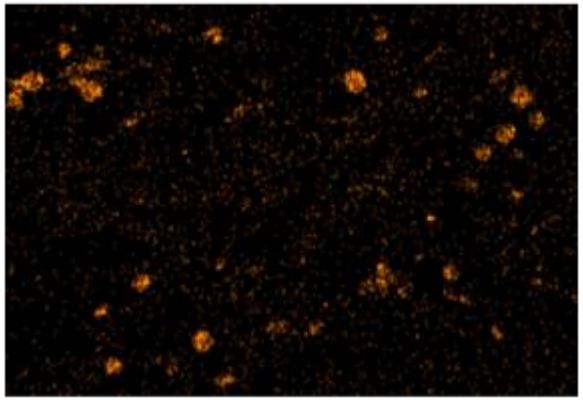
Mg Kα1_2



Na Kα1_2

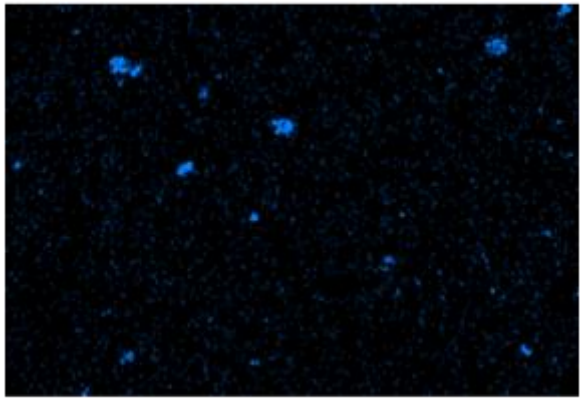


Fe Kα1



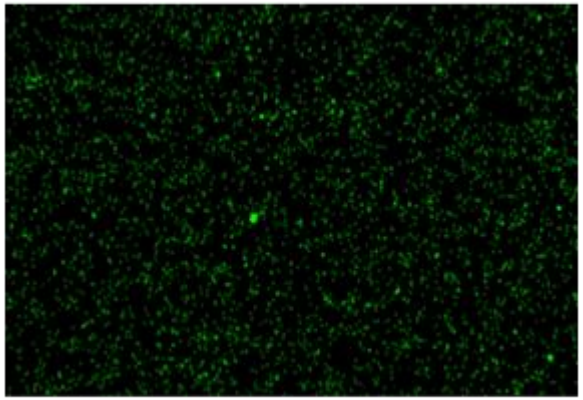
100µm

Ca Kα1



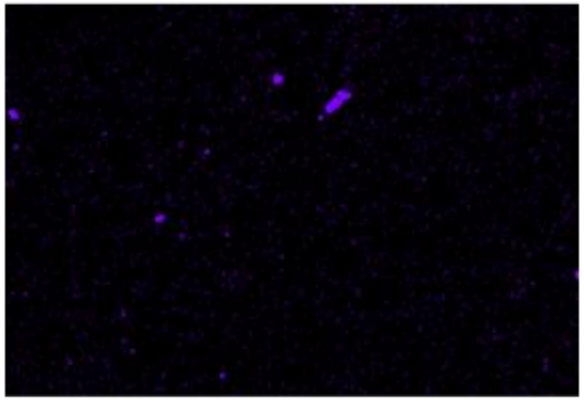
100µm

P Kα1



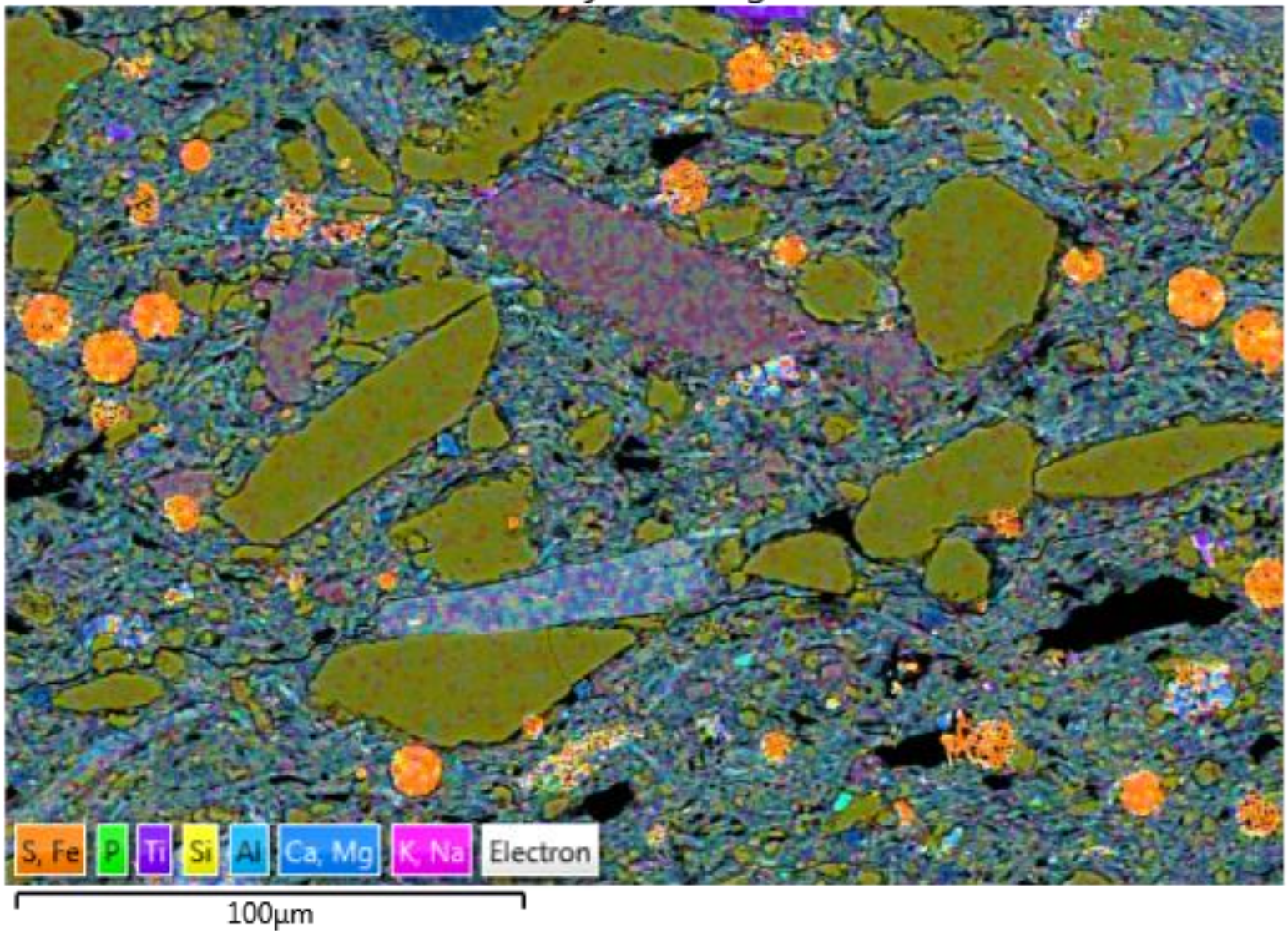
100µm

Ti Kα1



100µm

EDS Layered Image 2



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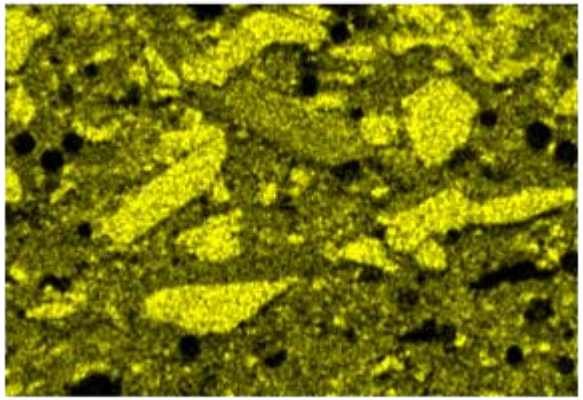
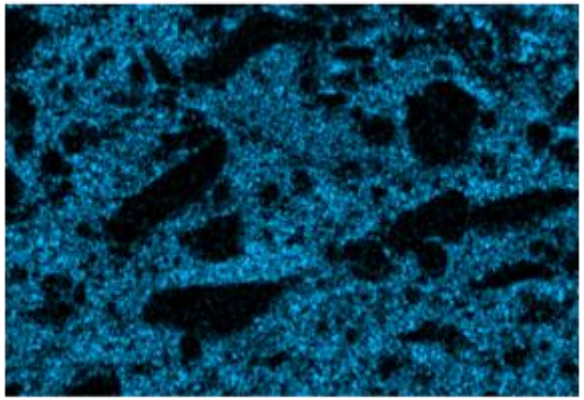
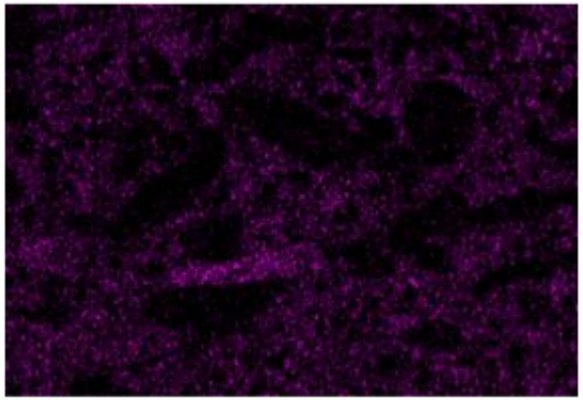
Si Kα1



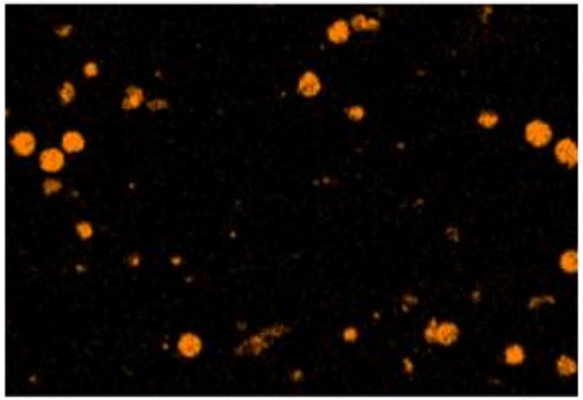
Al Kα1



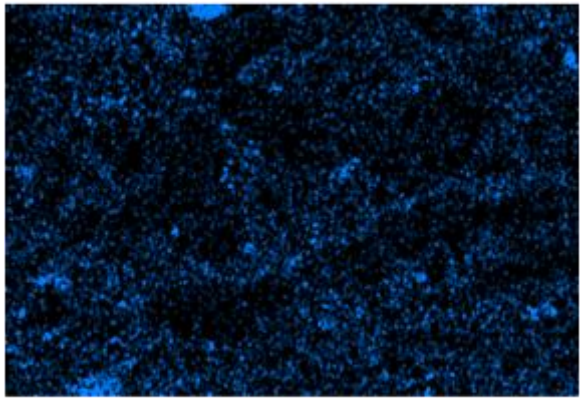
K Kα1



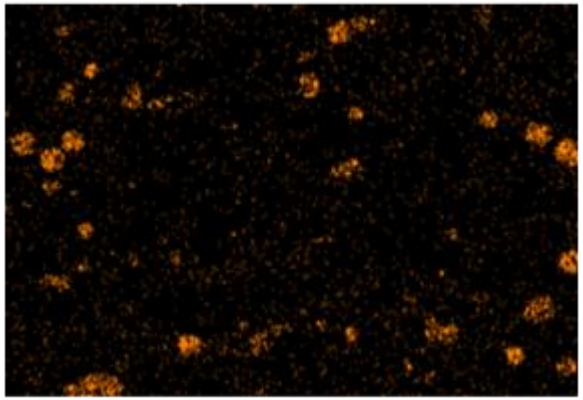
S Kα1



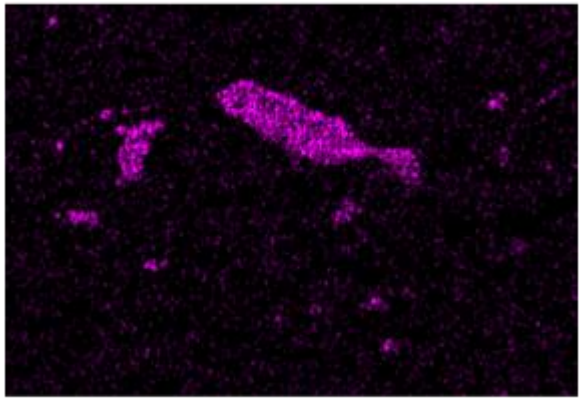
Mg Kα1_2



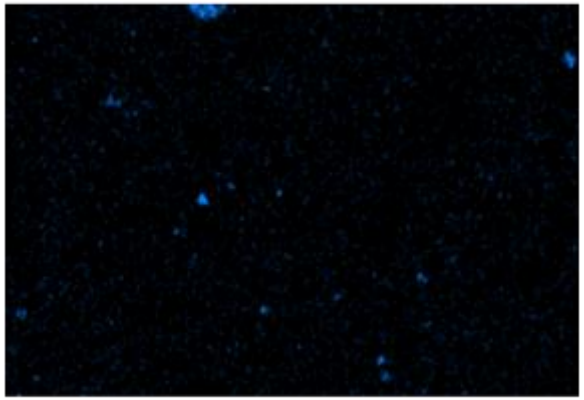
Fe Kα1



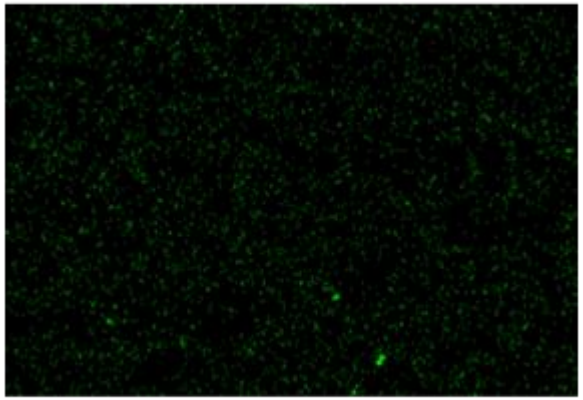
Na Kα1_2



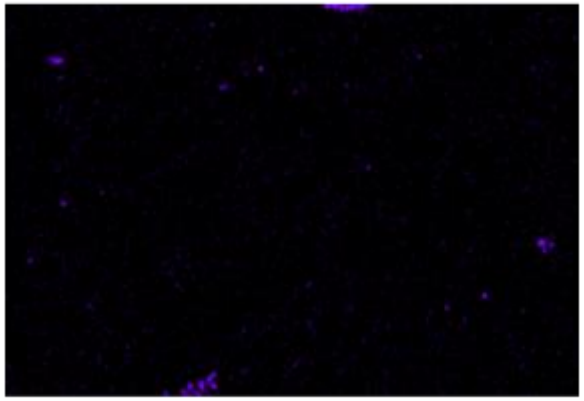
Ca Kα1



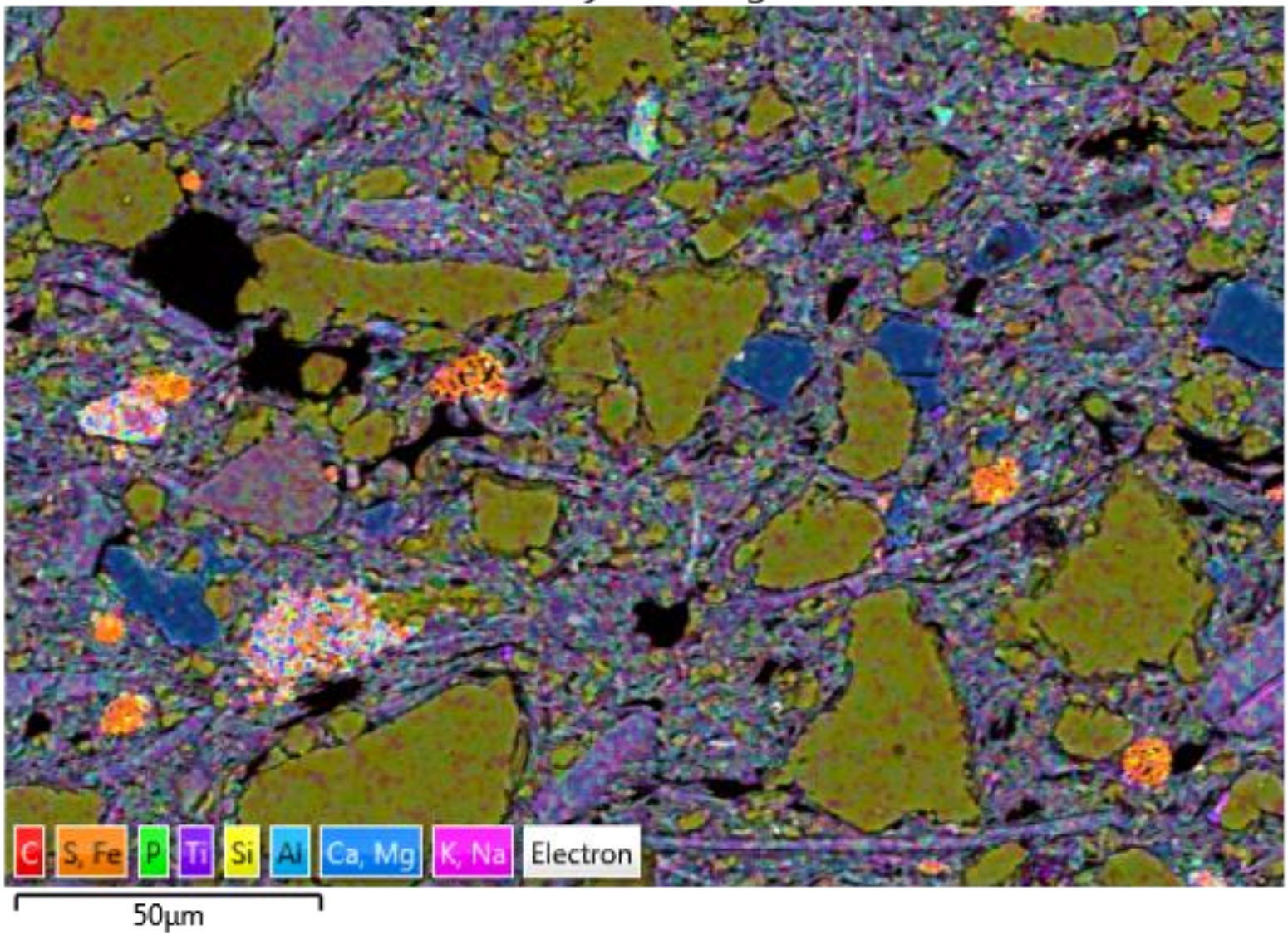
P Kα1



Ti Kα1



EDS Layered Image 3



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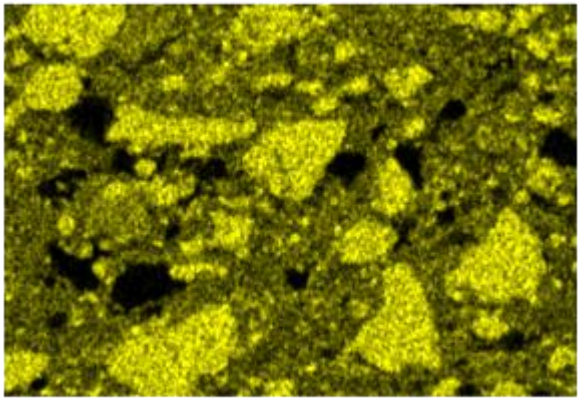
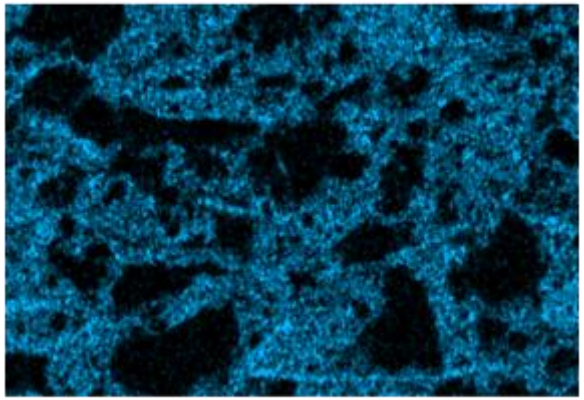
Si Kα1



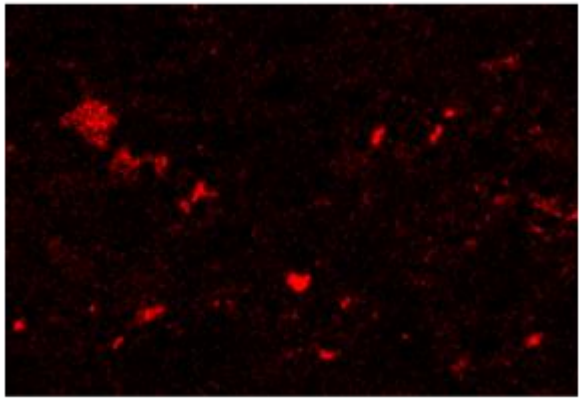
50µm

Al Kα1



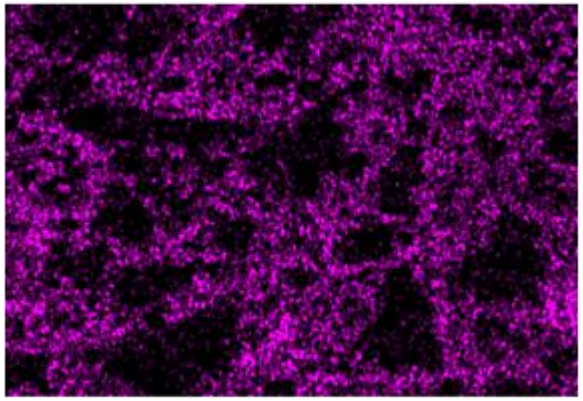
50µm

C Kα1_2



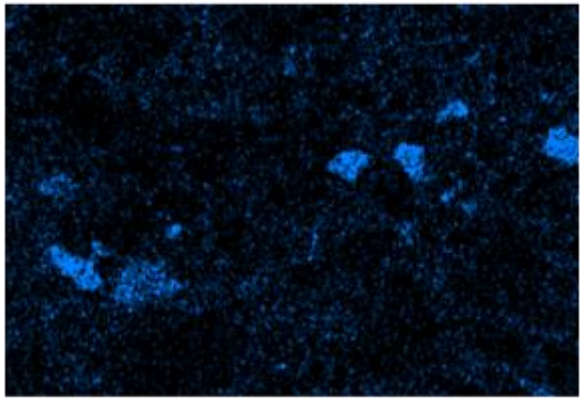
50µm

K Kα1



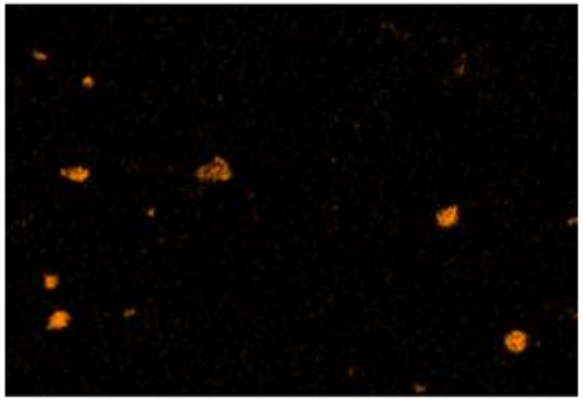
50µm

Mg Kα1_2



50µm

S Kα1



50µm

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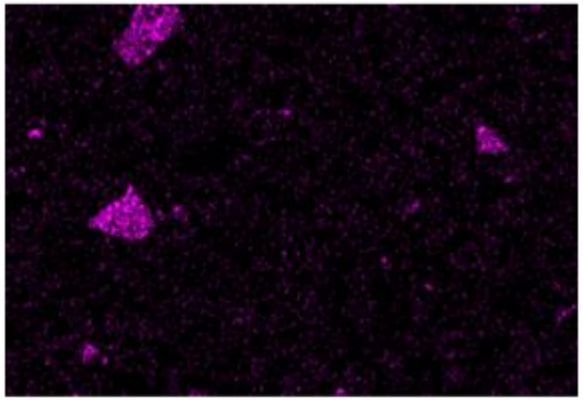
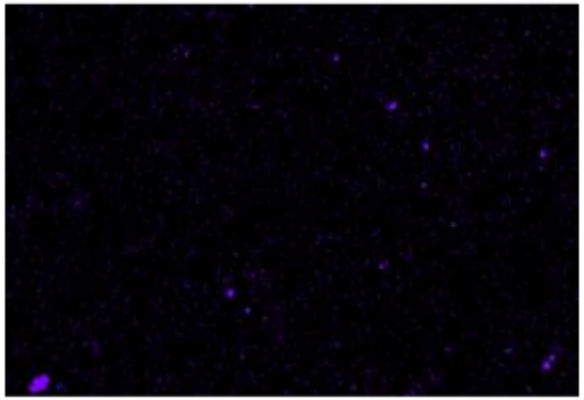
Na Kα1_2



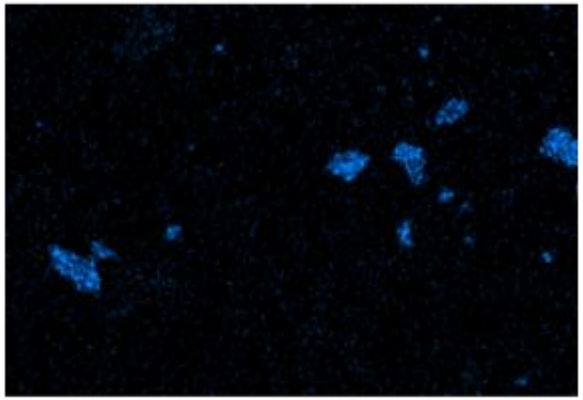
50µm

Ti Kα1



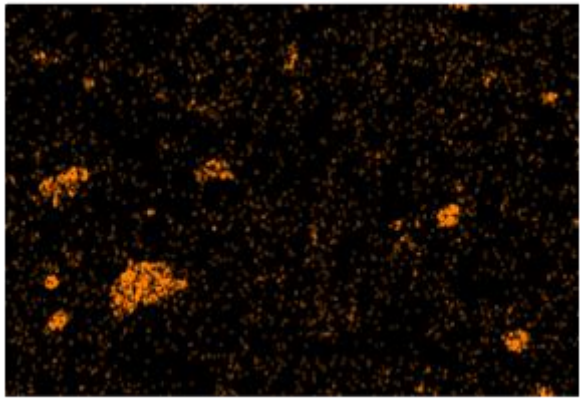
50µm

Ca Kα1



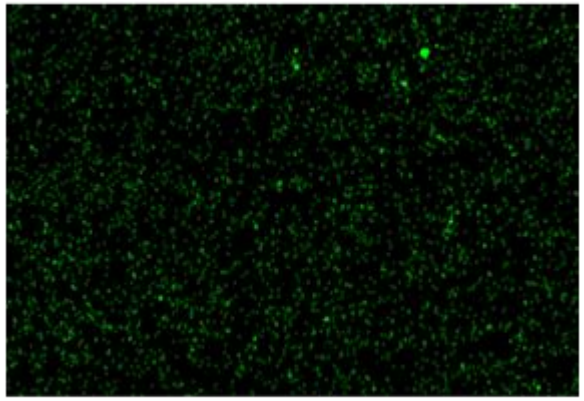
50µm

Fe Kα1



50µm

P Kα1



50µm

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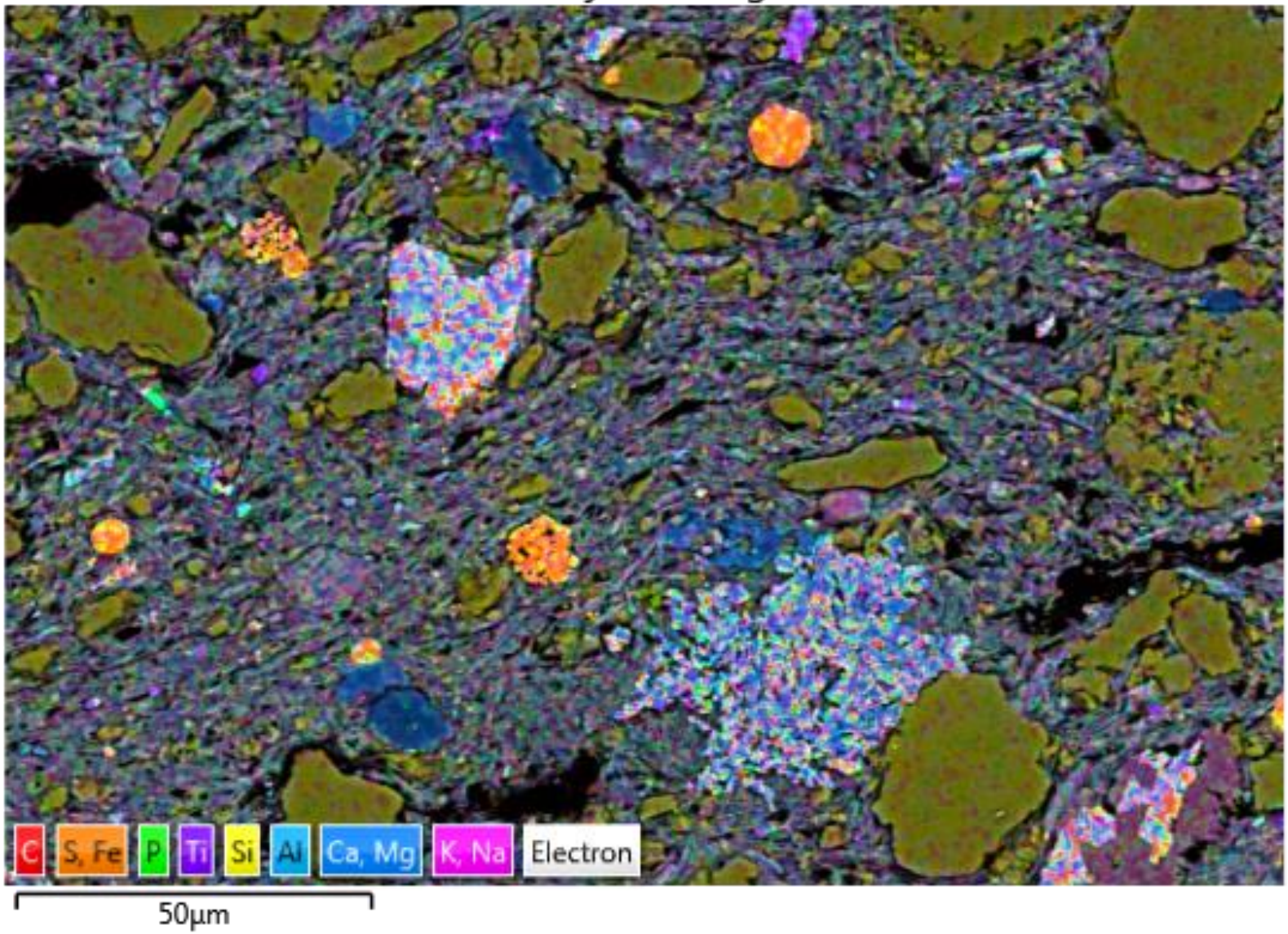
EDS Layered Image 4



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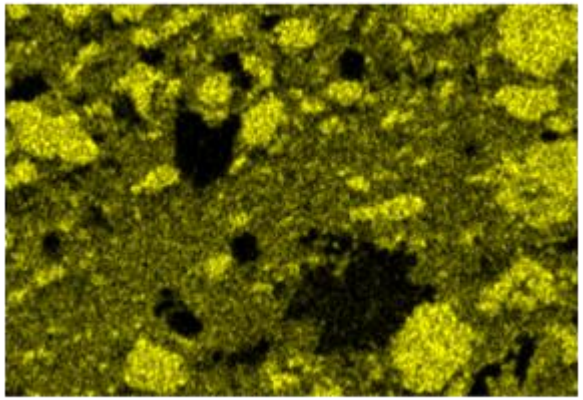
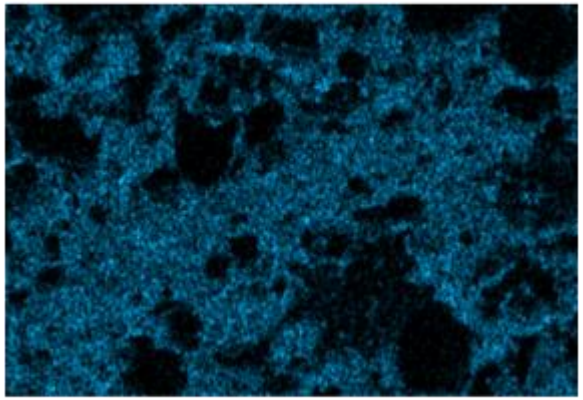
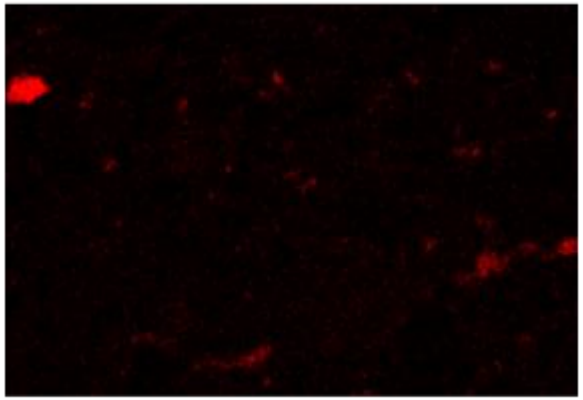
Si Kα1



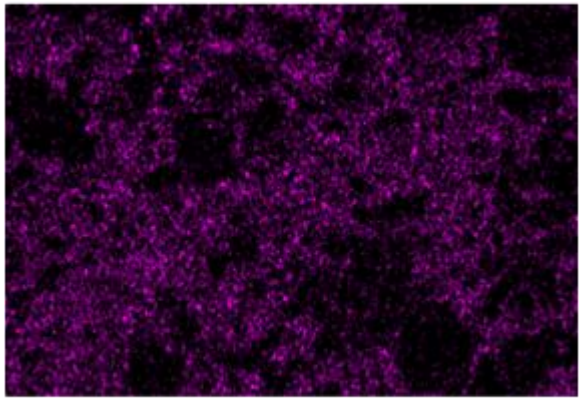
Al Kα1



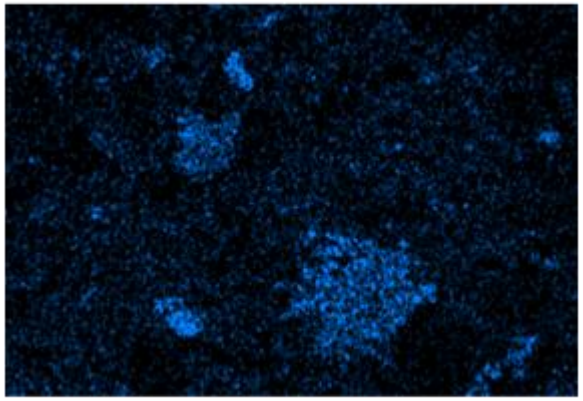
C Kα1_2



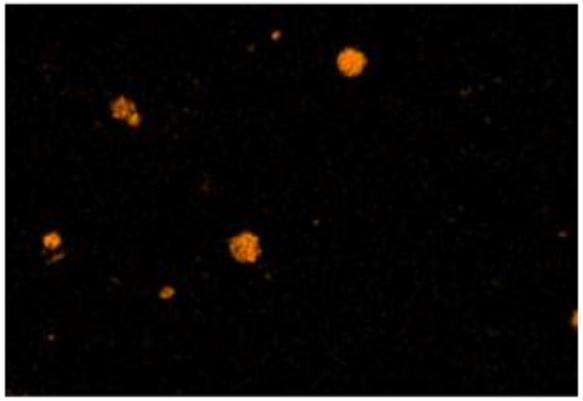
K Kα1



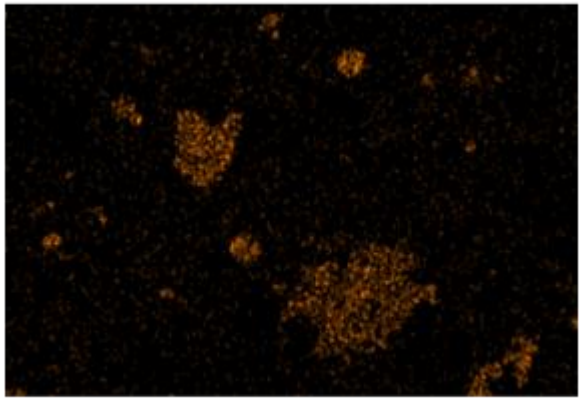
Mg Kα1_2



S Kα1



Fe Kα1



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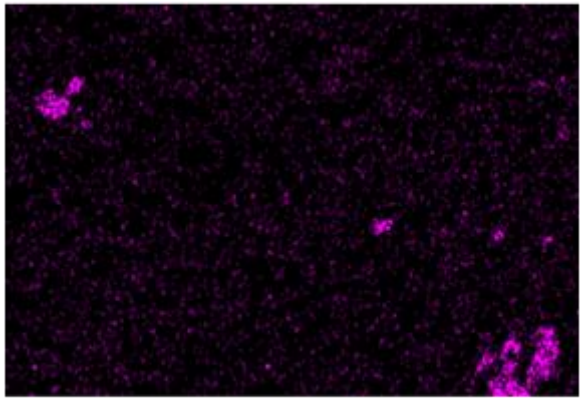
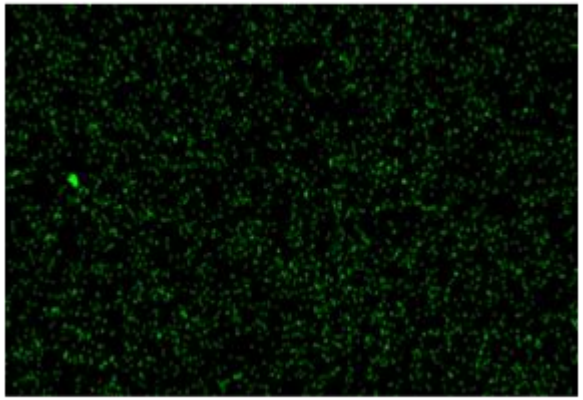
Na Kα1_2



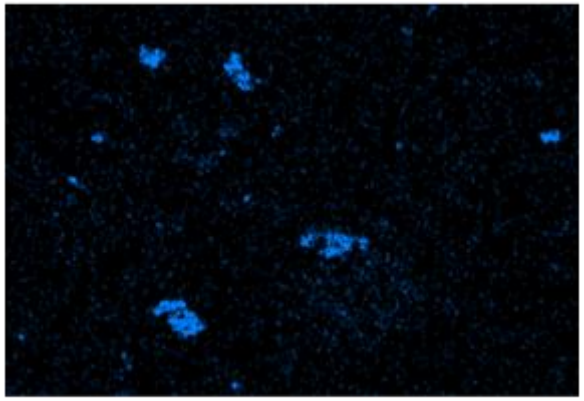
50µm

P Kα1



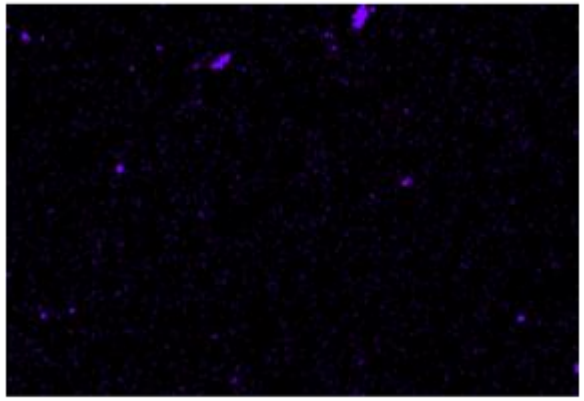
50µm

Ca Kα1



50µm

Ti Kα1



50µm

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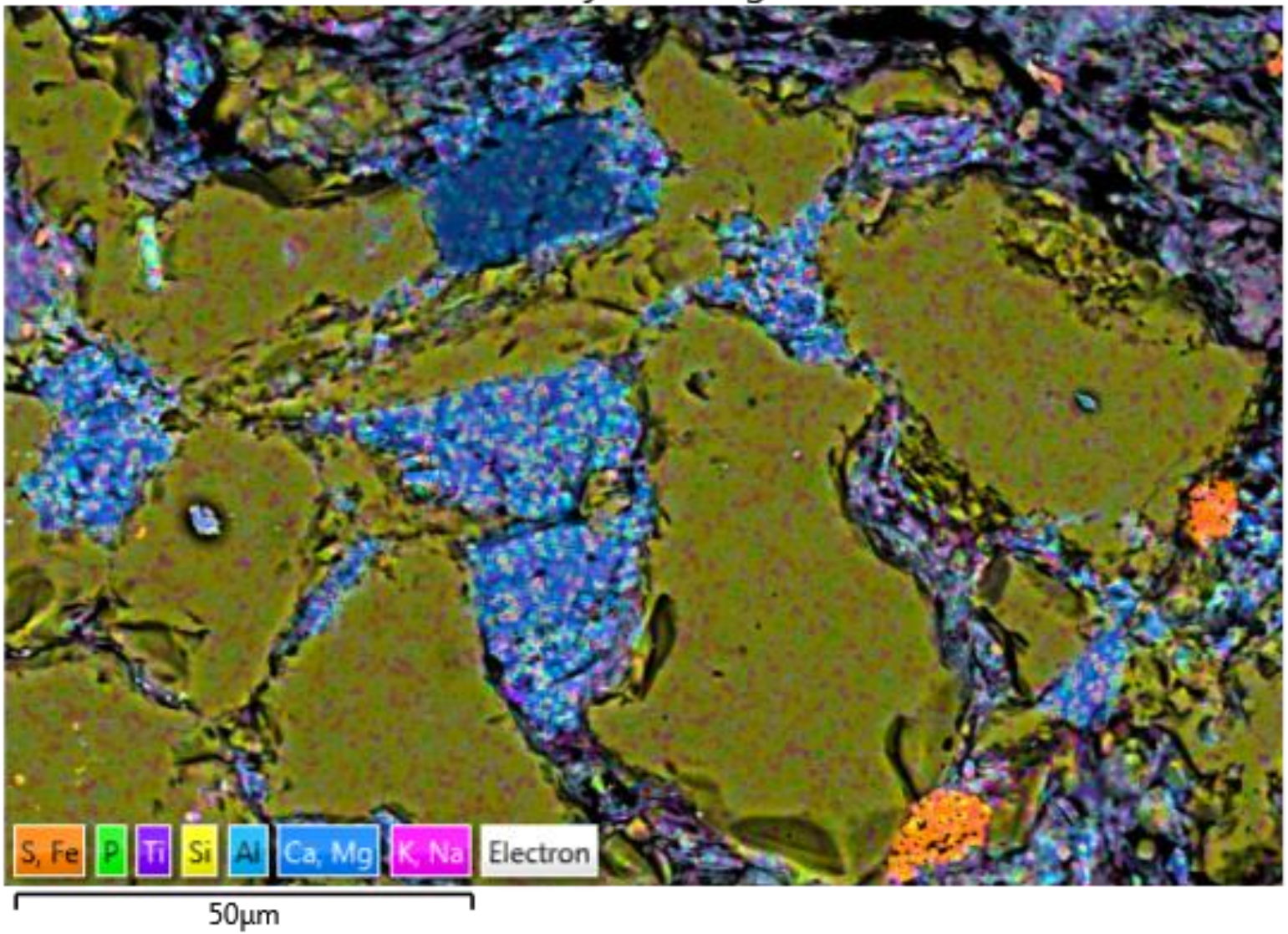
EDS Layered Image 1



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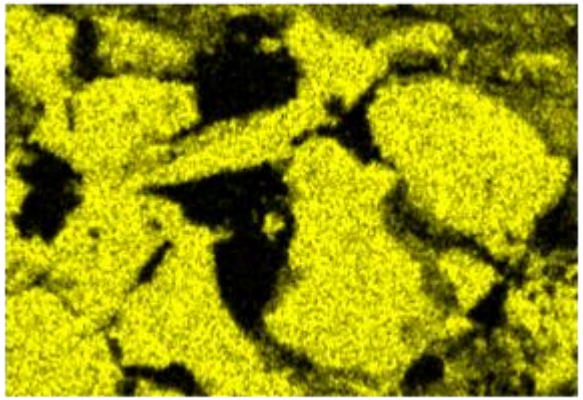
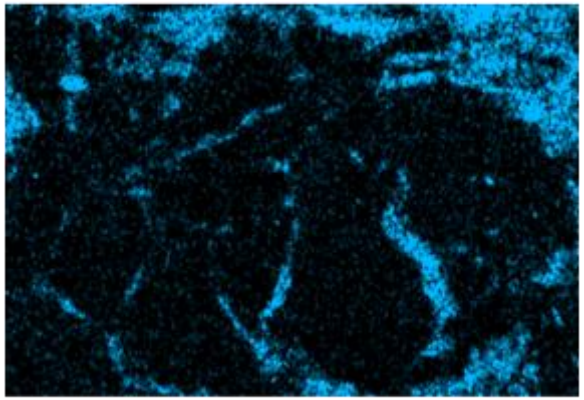
Si Kα1



50µm

Al Kα1



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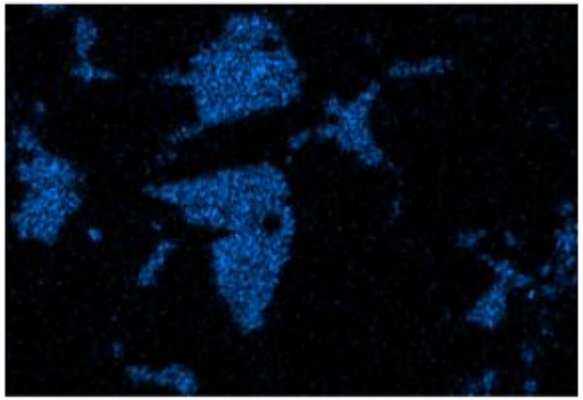
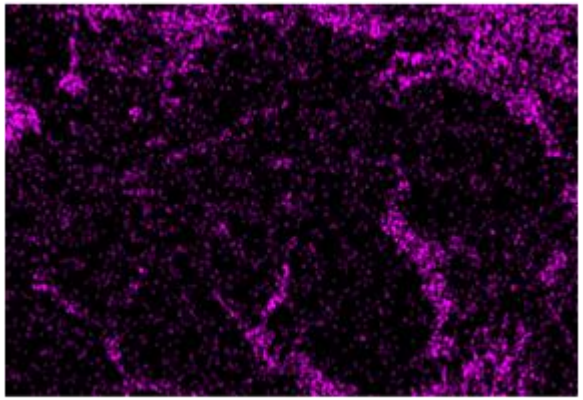
Ca Kα1



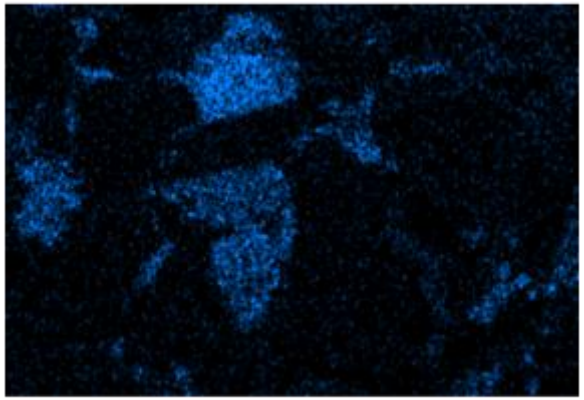
50µm

K Kα1



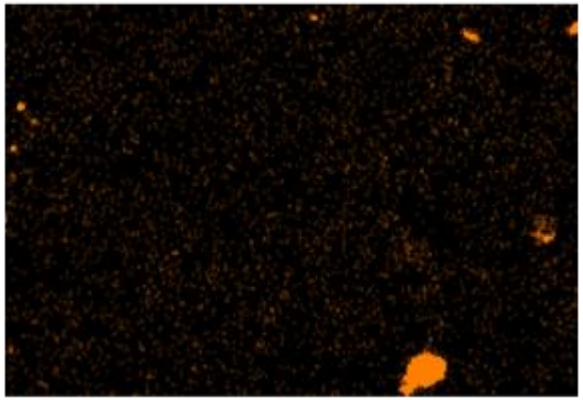
50µm

Mg Kα1_2



50µm

S Kα1



50µm

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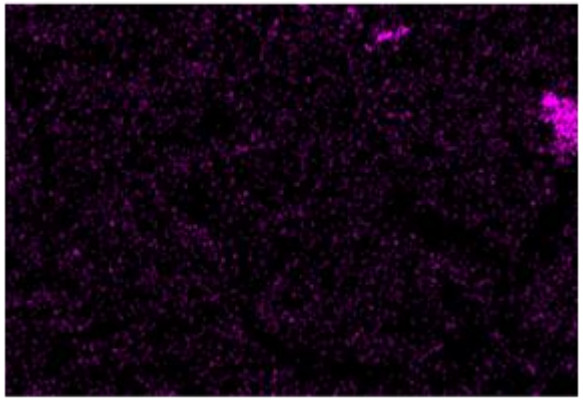
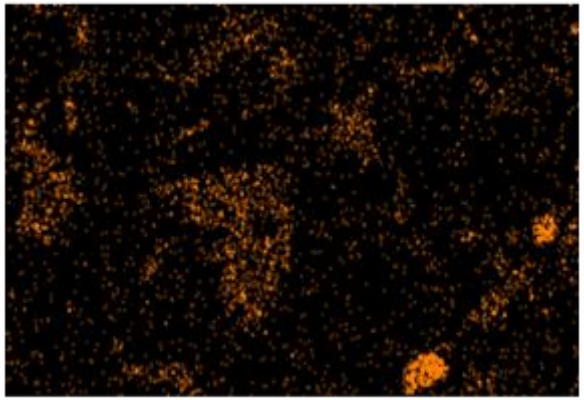
Na Kα1_2



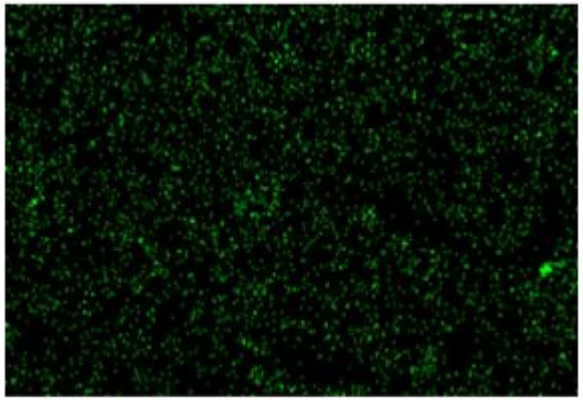
50µm

Fe Kα1



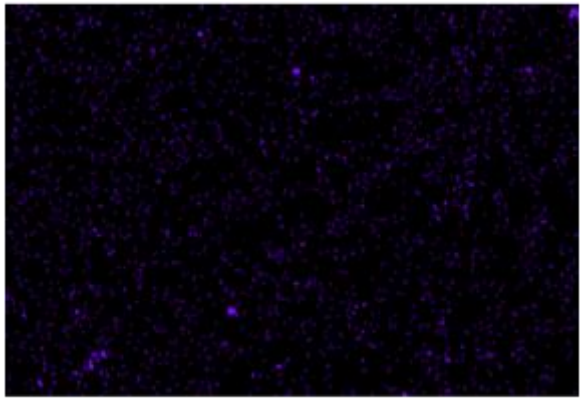
50µm

P Kα1



50µm

Ti Kα1



50µm

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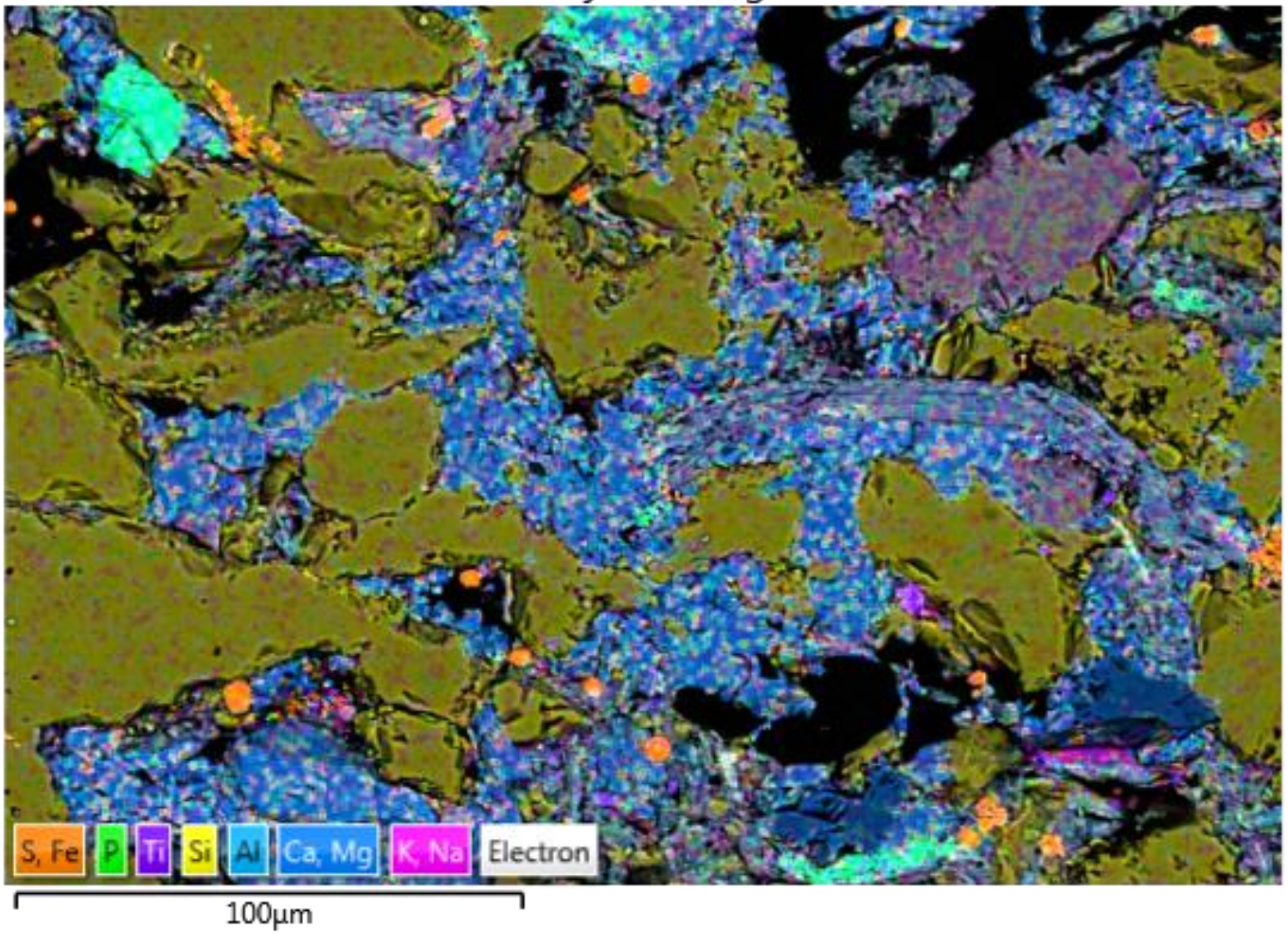
EDS Layered Image 2



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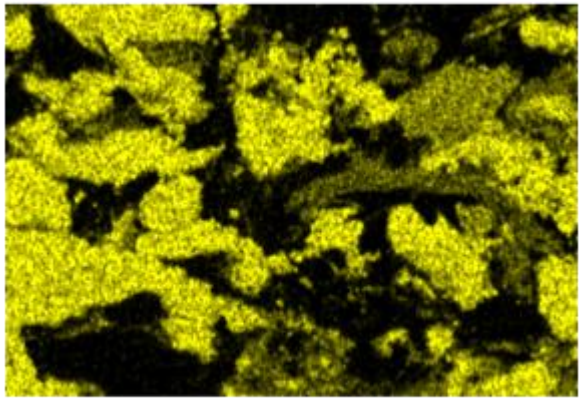
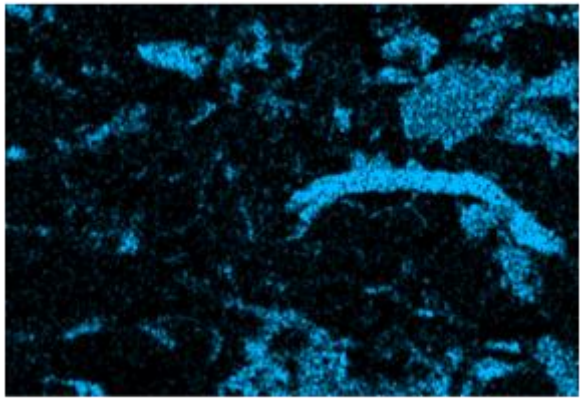
Si Kα1



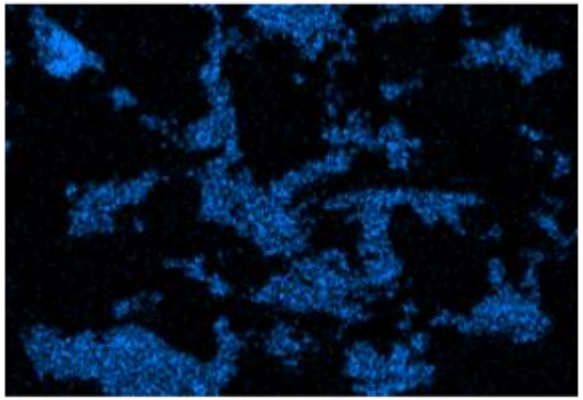
100µm

Al Kα1



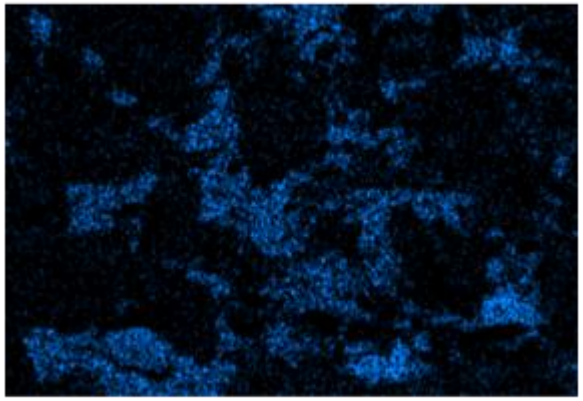
100µm

Ca Kα1



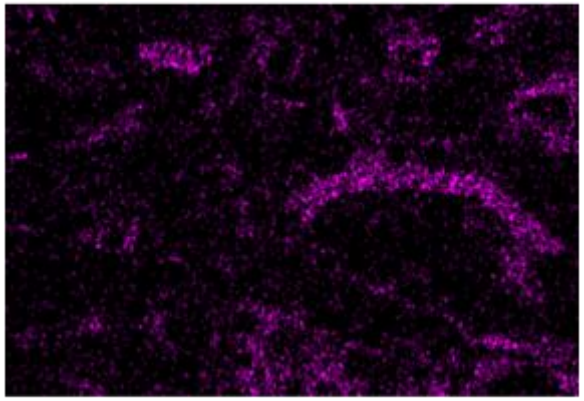
100µm

Mg Kα1_2



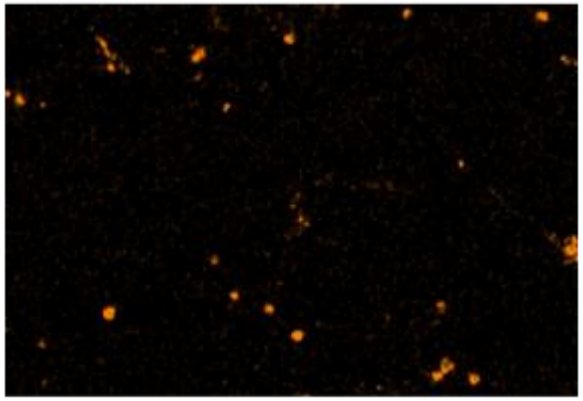
100µm

K Kα1



100µm

S Kα1



100µm

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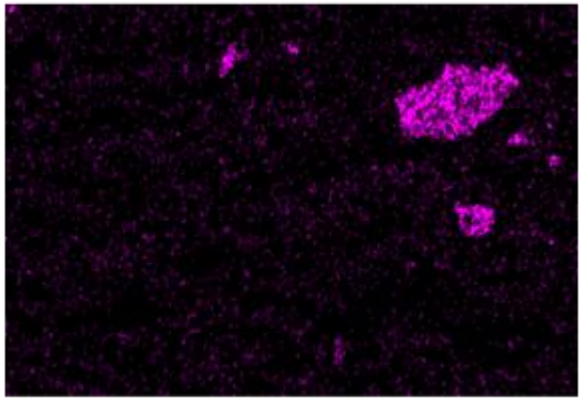
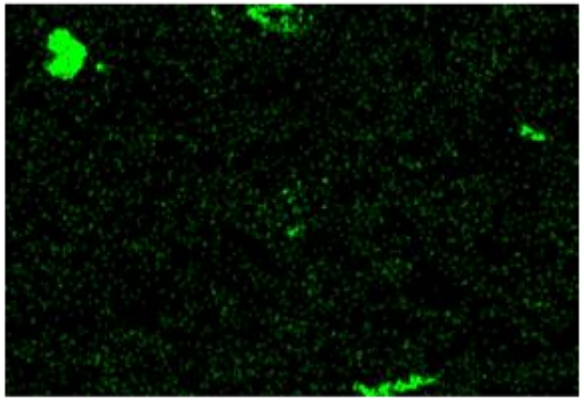
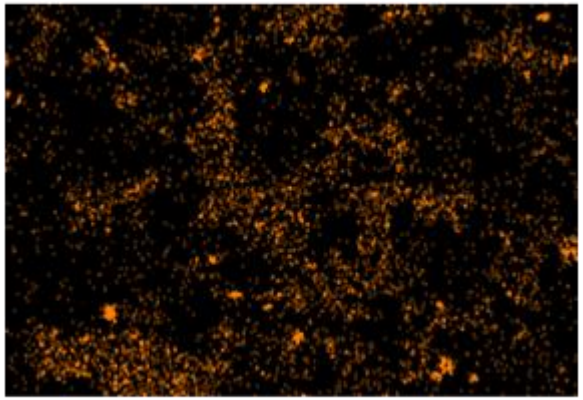
Na Kα1_2



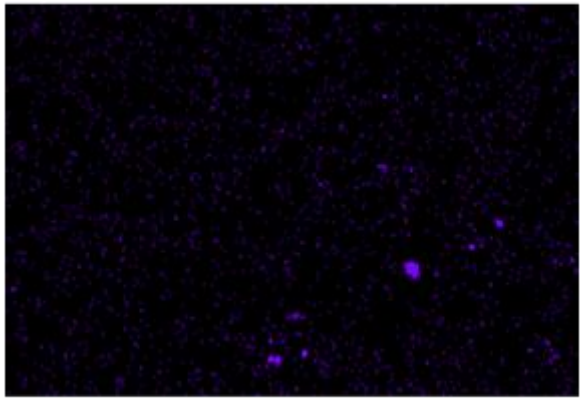
P Kα1



Fe Kα1



Ti Kα1



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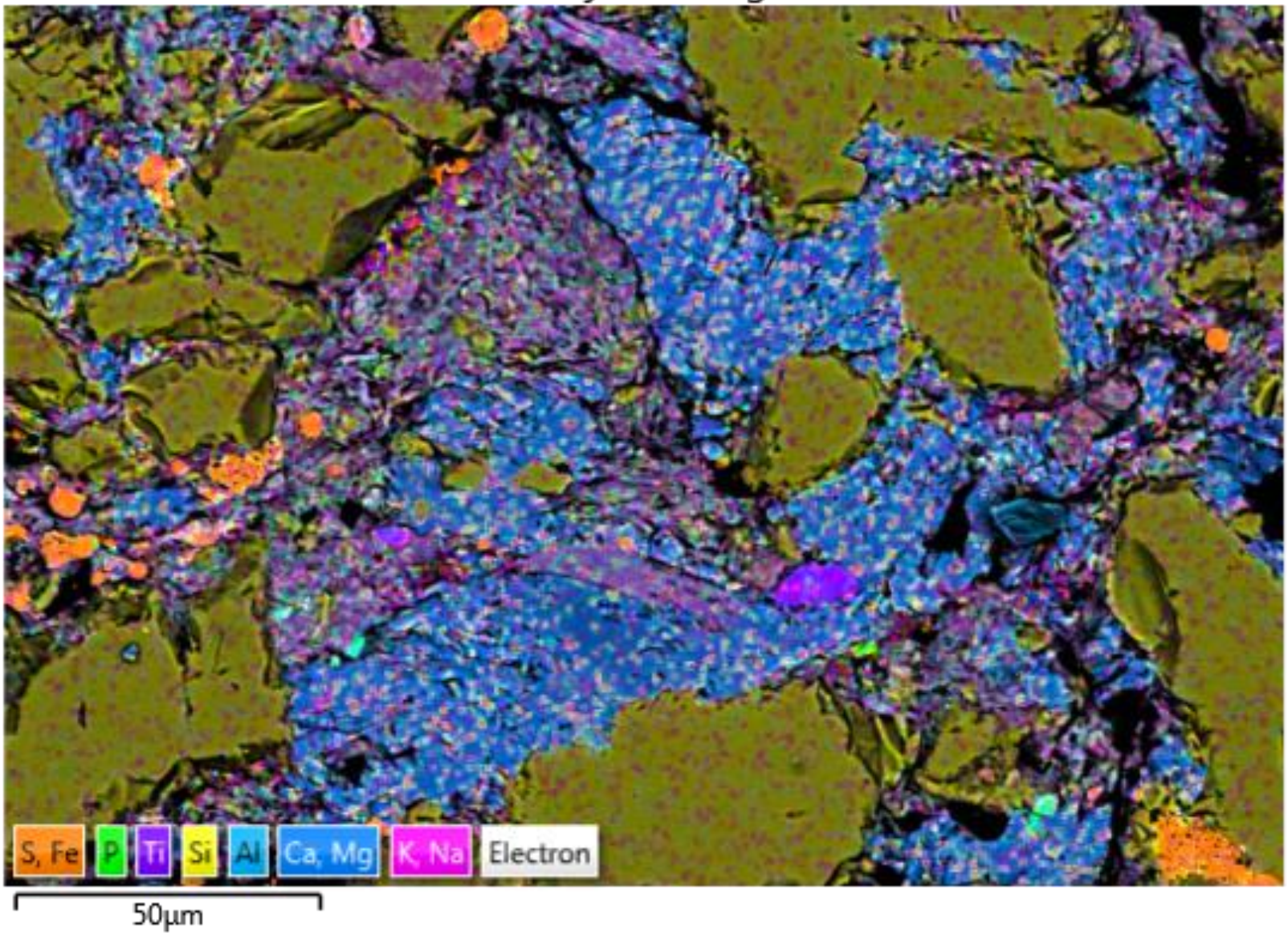
EDS Layered Image 3



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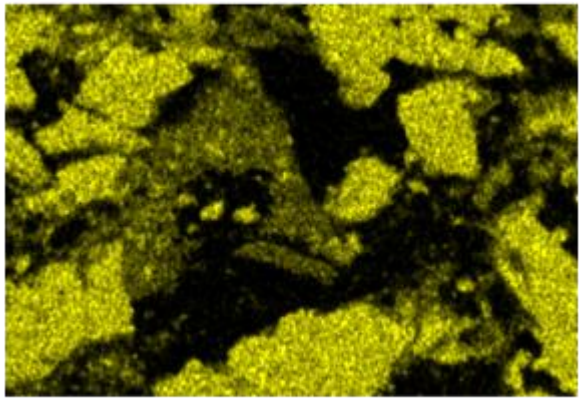
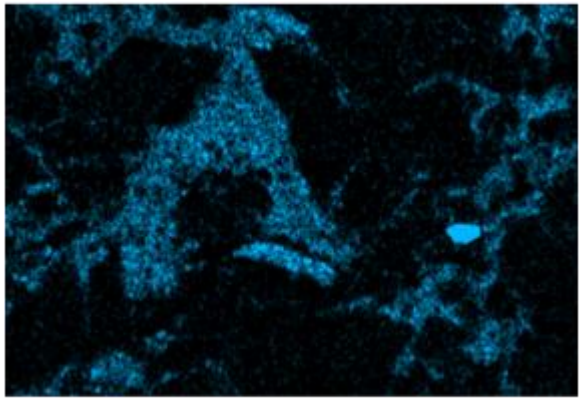
Si Kα1



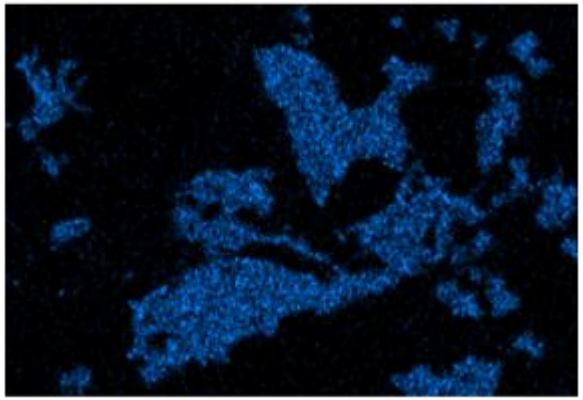
50µm

Al Kα1



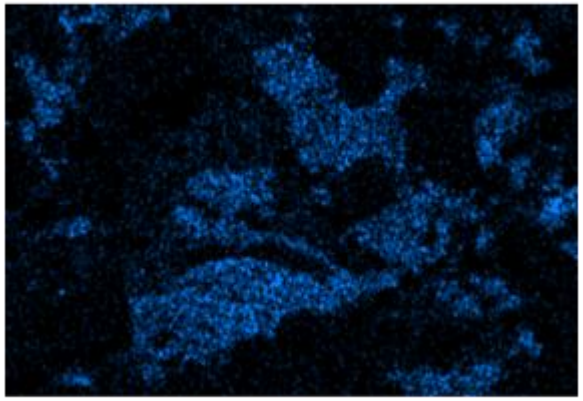
50µm

Ca Kα1



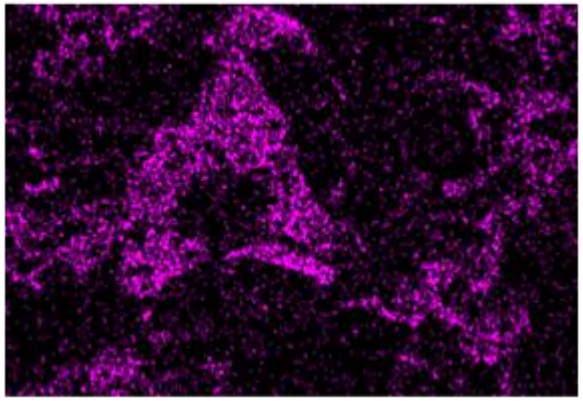
50µm

Mg Kα1_2



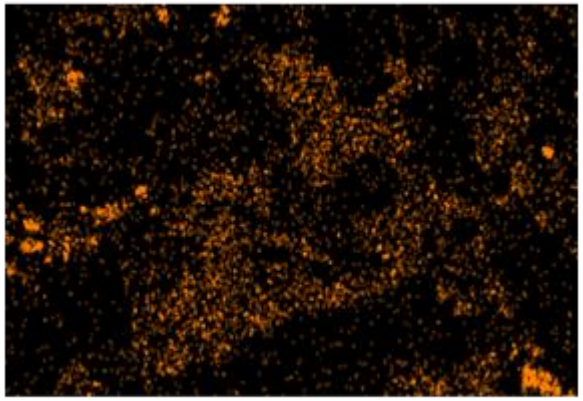
50µm

K Kα1



50µm

Fe Kα1



50µm

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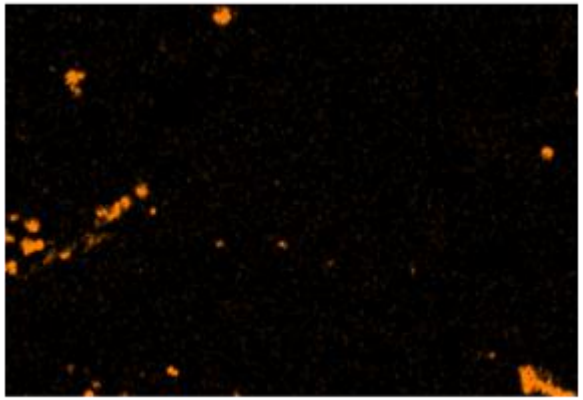
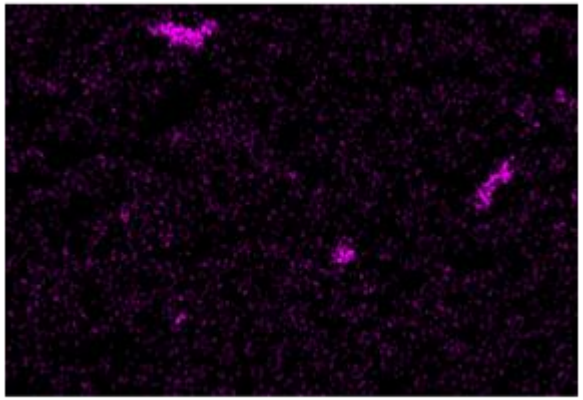
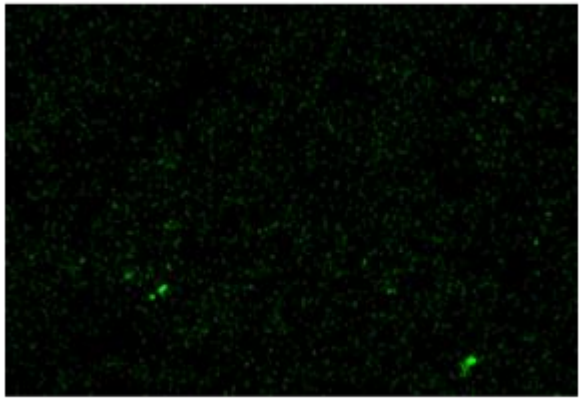
S Kα1



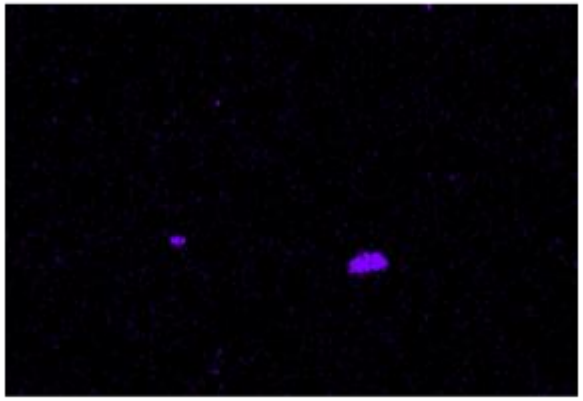
Na Kα1_2



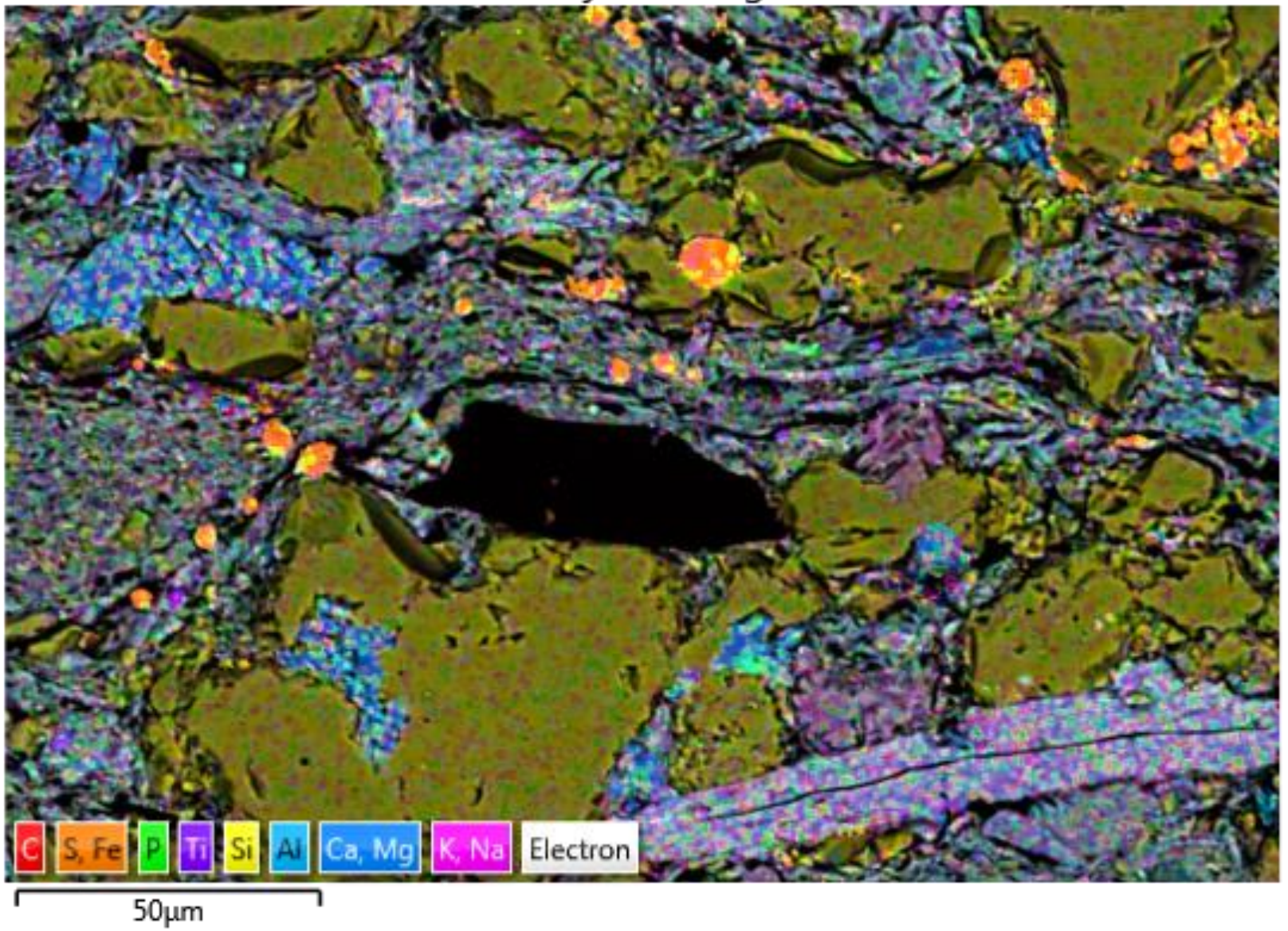
P Kα1



Ti Kα1



EDS Layered Image 4



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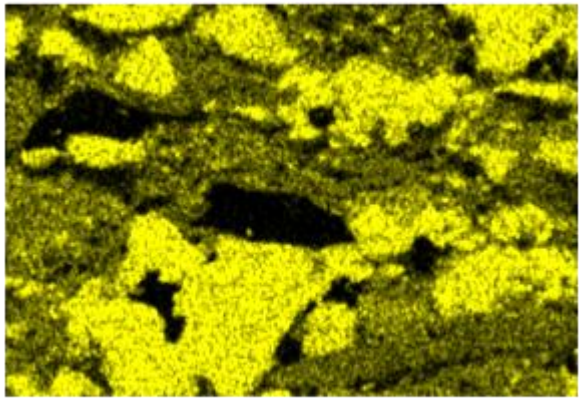
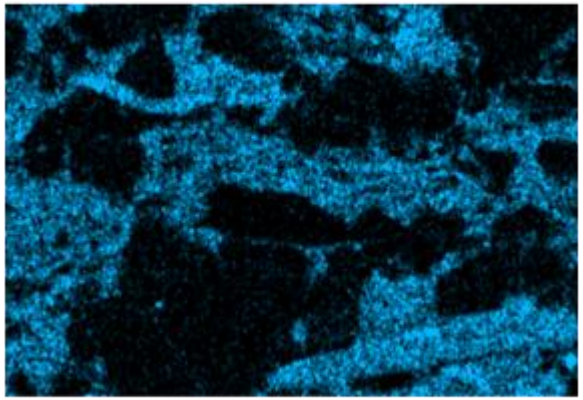
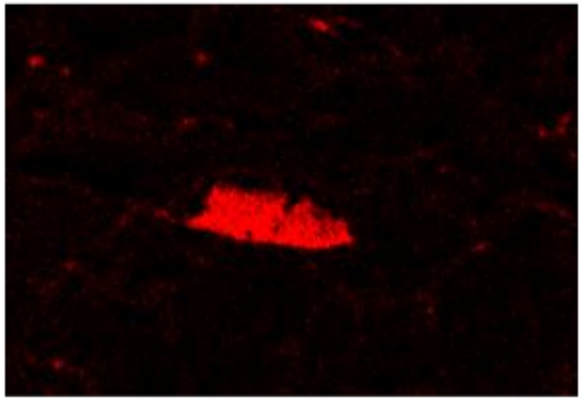
Si Kα1



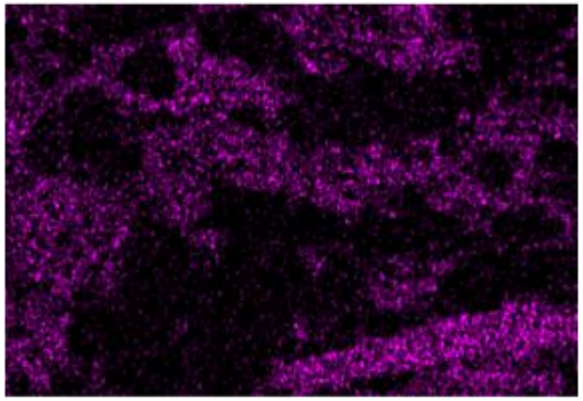
Al Kα1



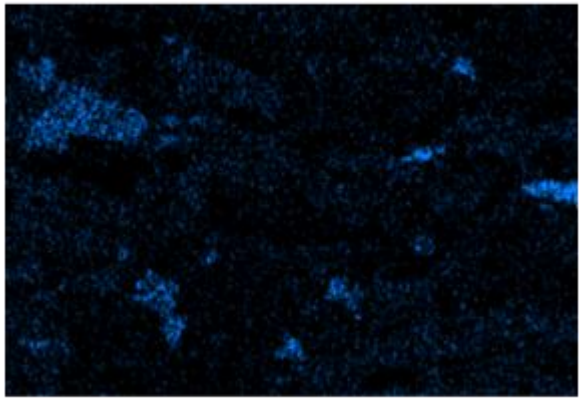
C Kα1_2



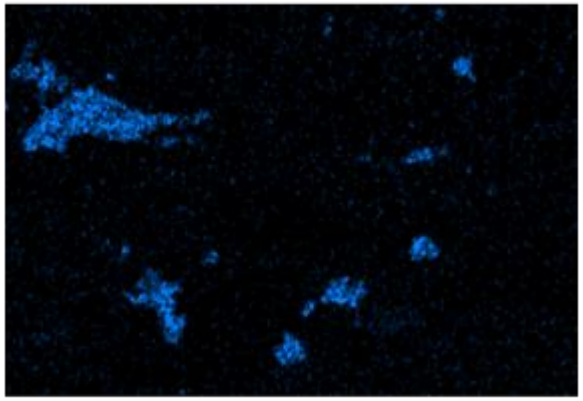
K Kα1



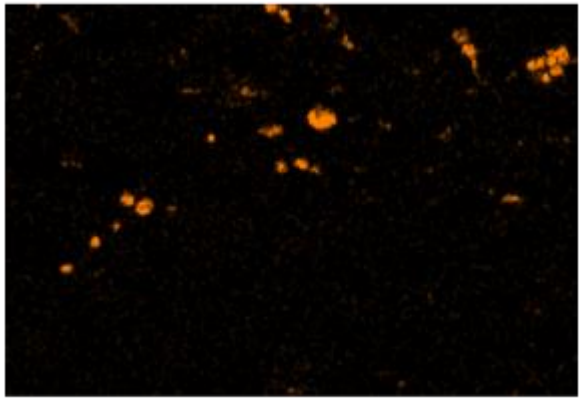
Mg Kα1_2



Ca Kα1

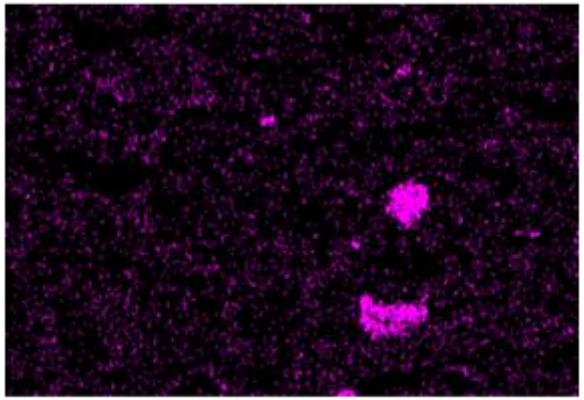


S Kα1



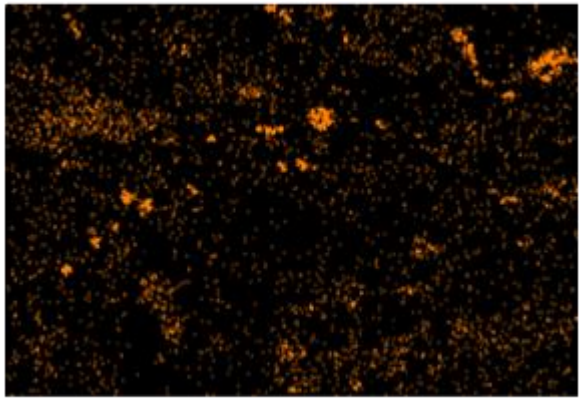
50µm

Na Kα1_2



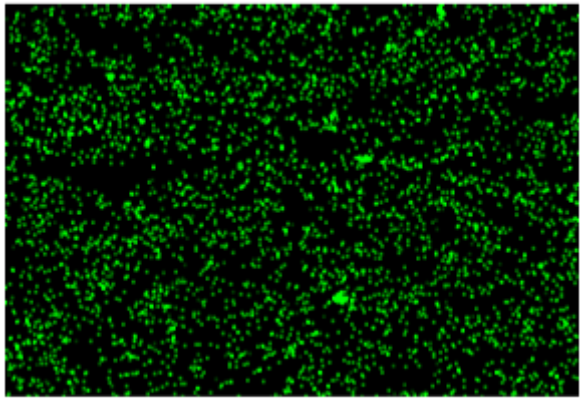
50µm

Fe Kα1



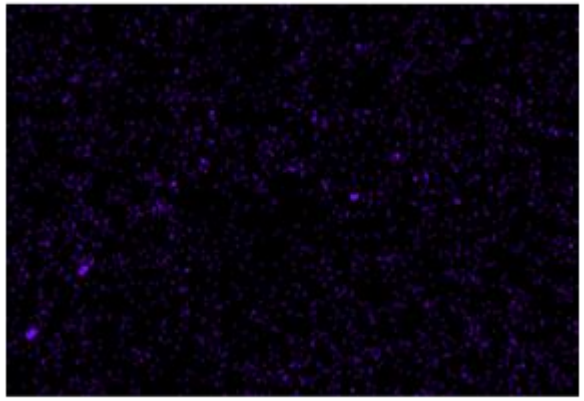
50µm

P Kα1



50µm

Ti Kα1



50µm

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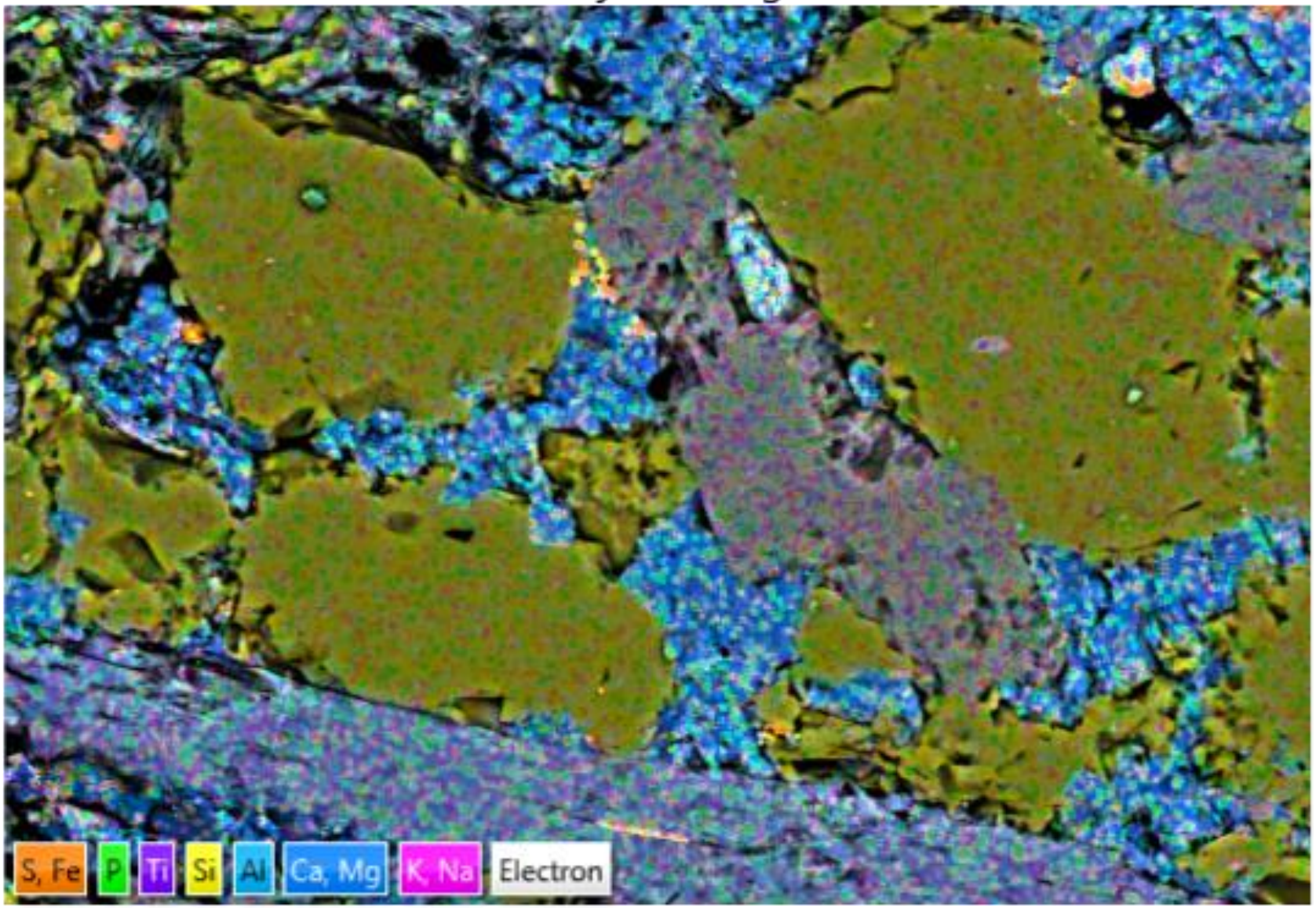
EDS Layered Image 5



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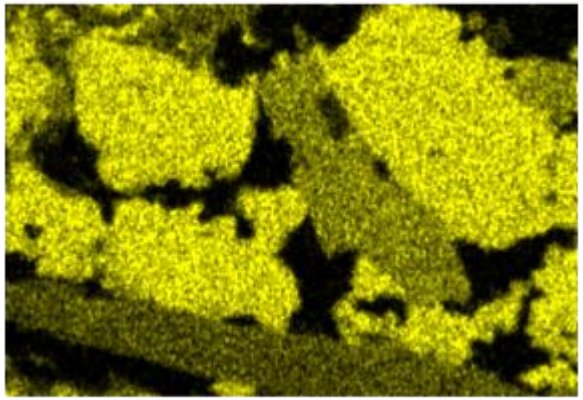
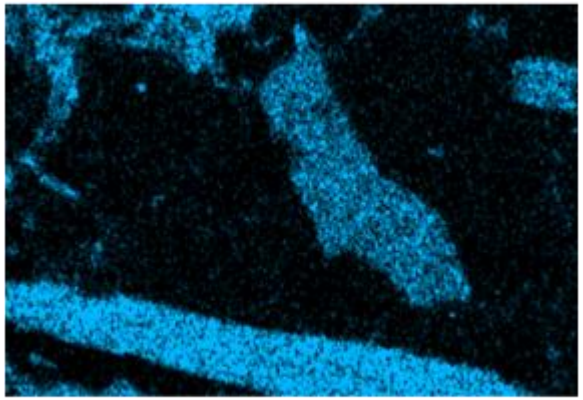
Si Kα1



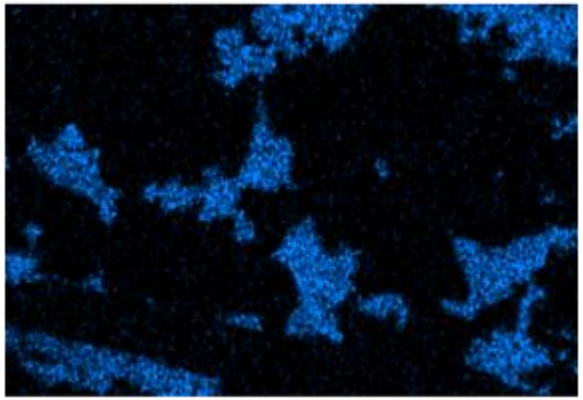
25µm

Al Kα1



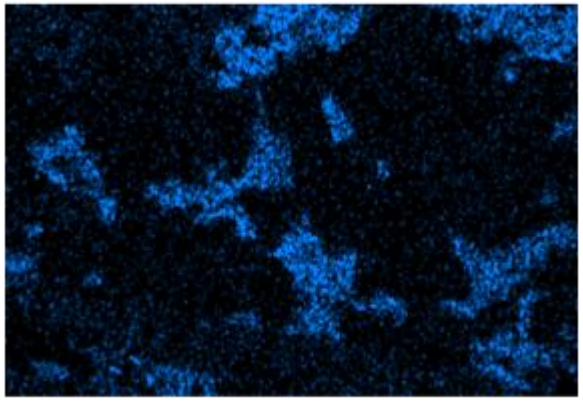
25µm

Ca Kα1



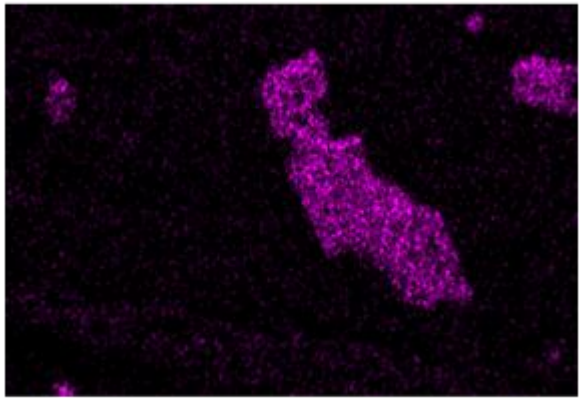
25µm

Mg Kα1_2



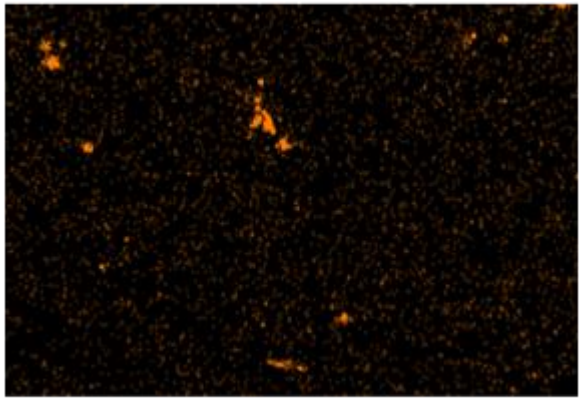
25µm

Na Kα1_2



25µm

S Kα1



25µm

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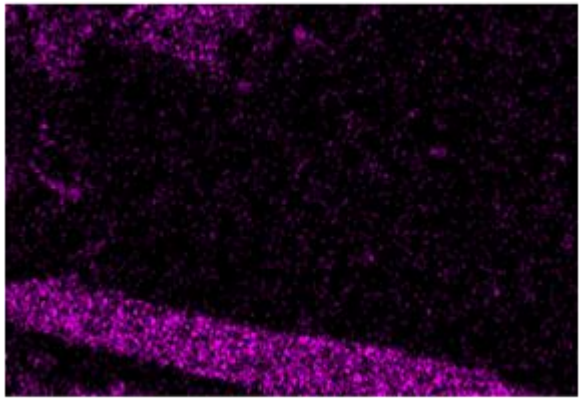
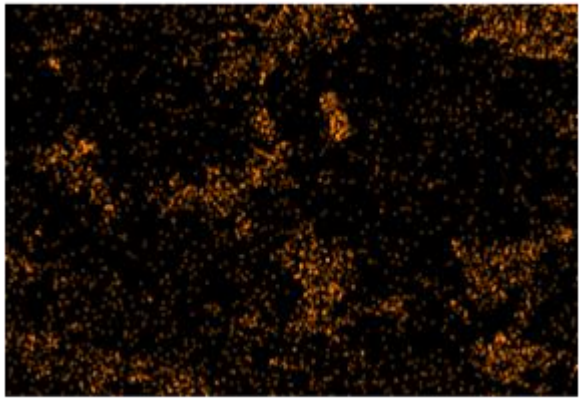
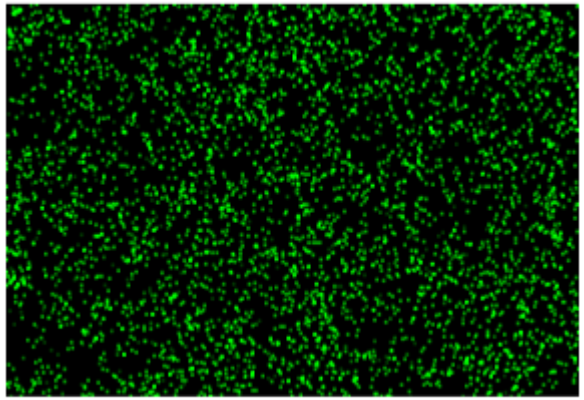
K Kα1



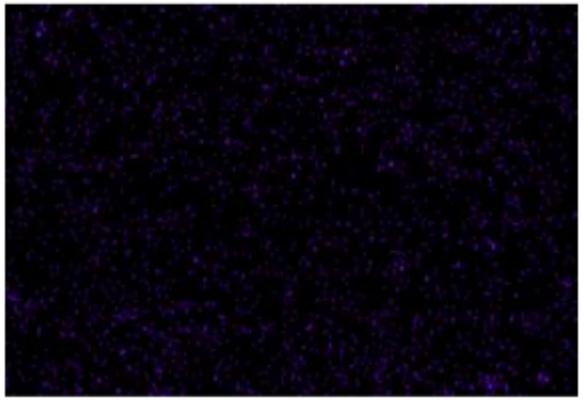
Fe Kα1



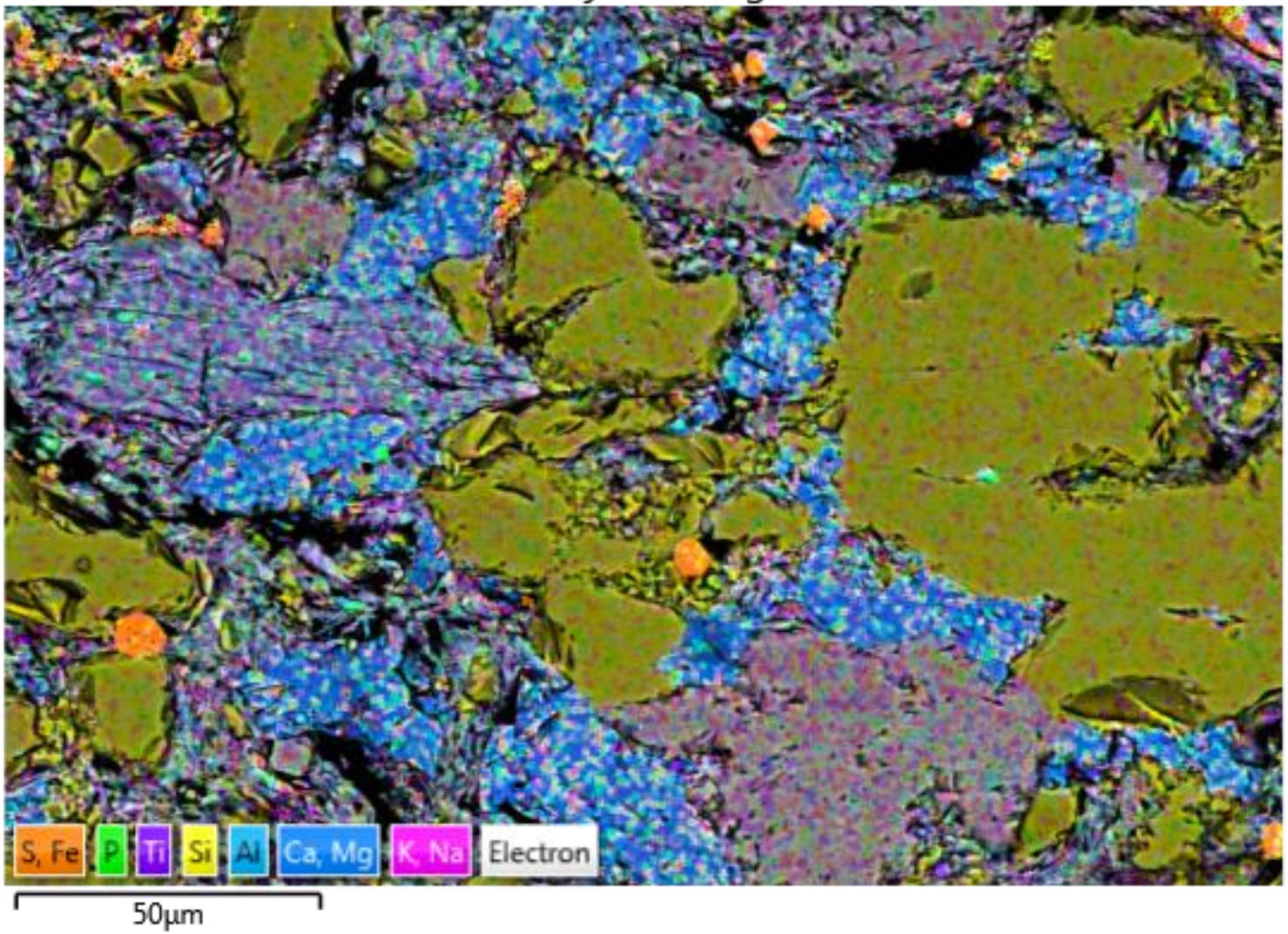
P Kα1



Ti Kα1



EDS Layered Image 6



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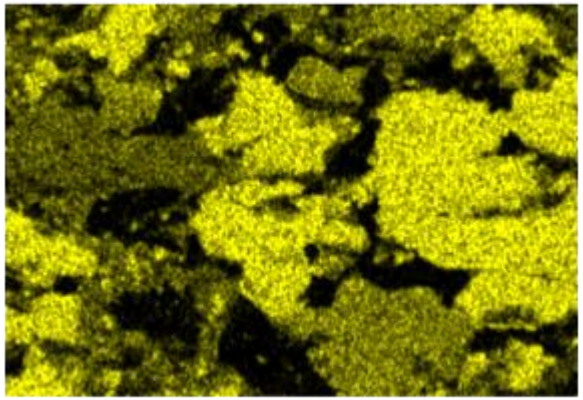
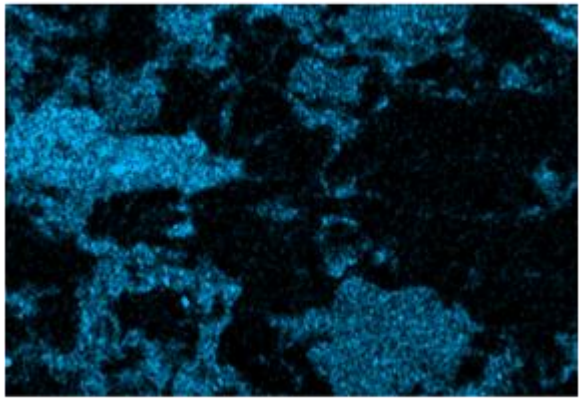
Si Kα1



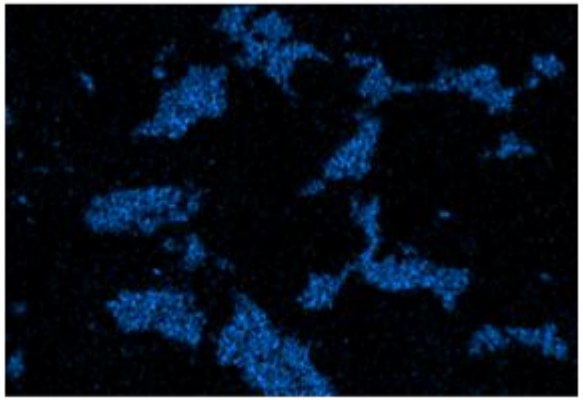
50µm

Al Kα1



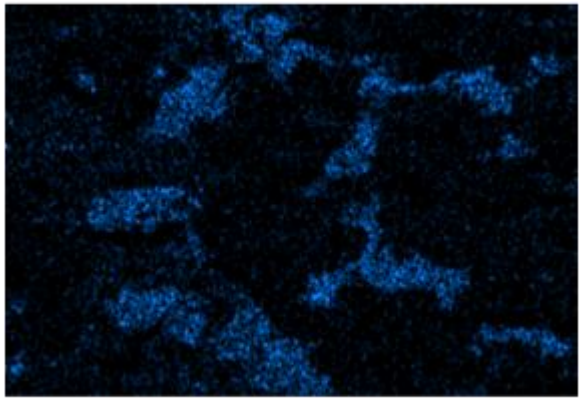
50µm

Ca Kα1



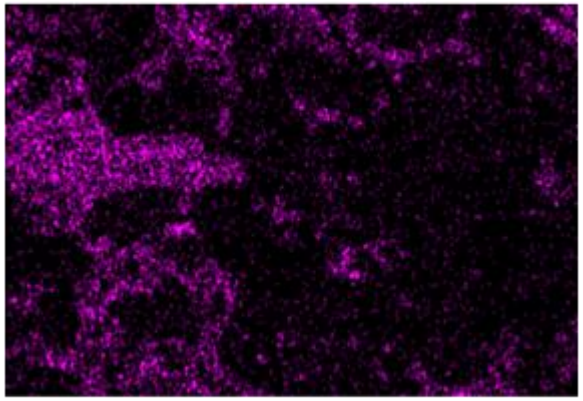
50µm

Mg Kα1_2



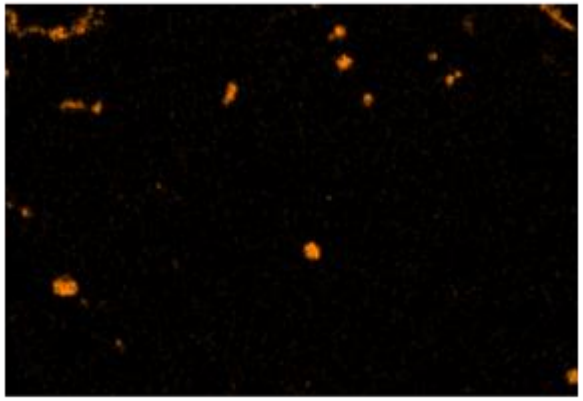
50µm

K Kα1



50µm

S Kα1



50µm

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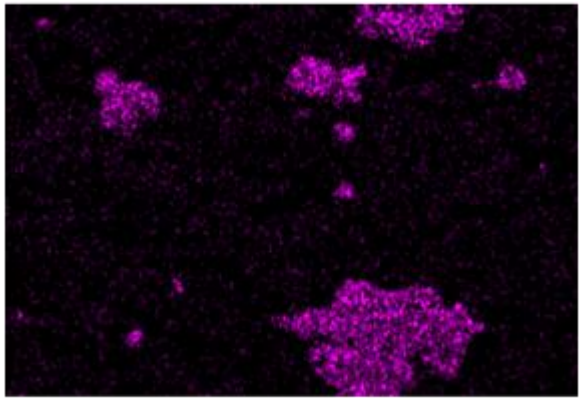
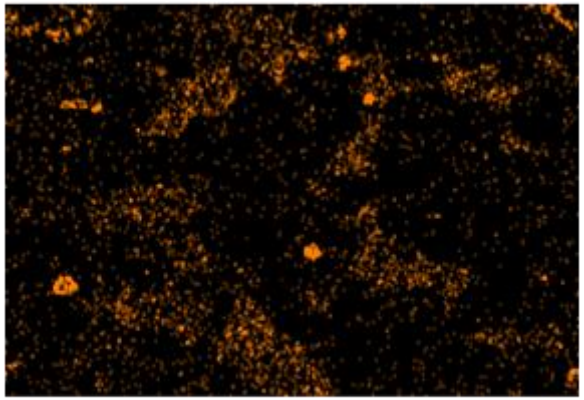
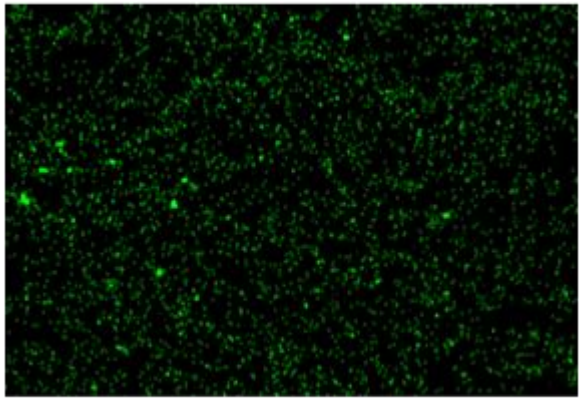
Na Kα1_2



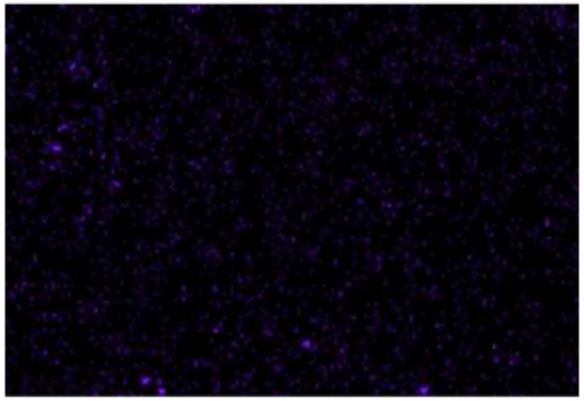
Fe Kα1



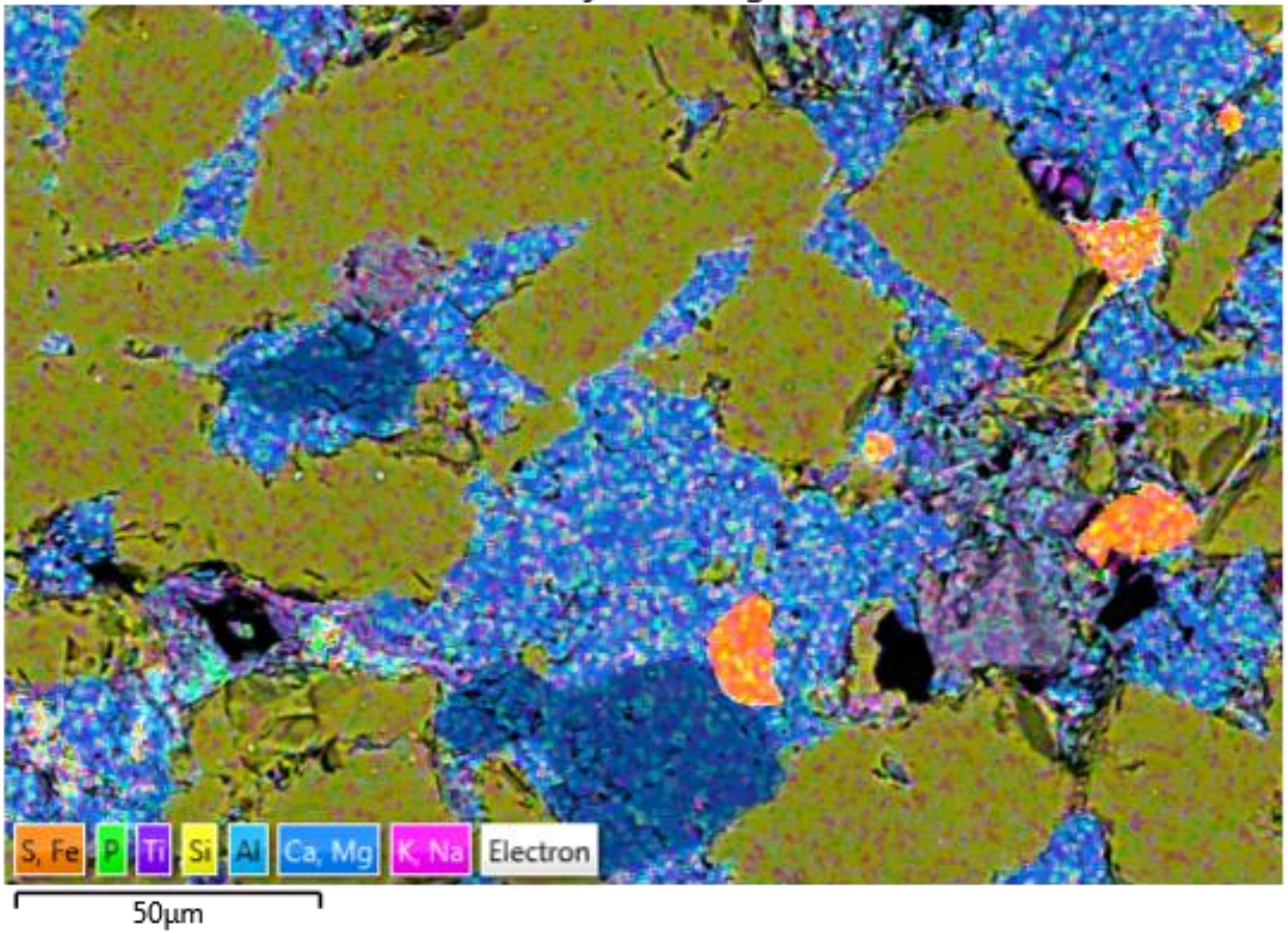
P Kα1



Ti Kα1



EDS Layered Image 7



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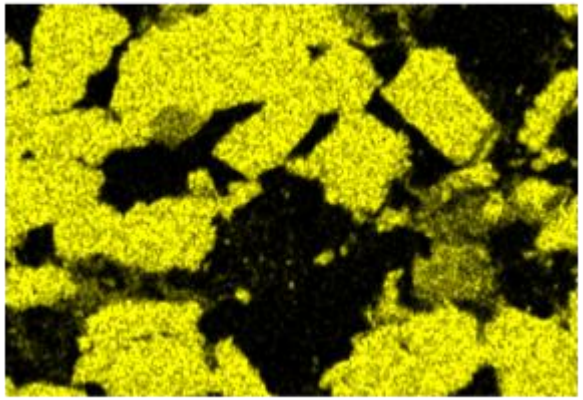
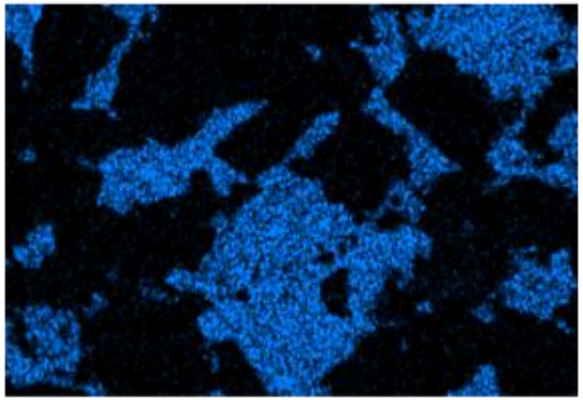
Si Kα1



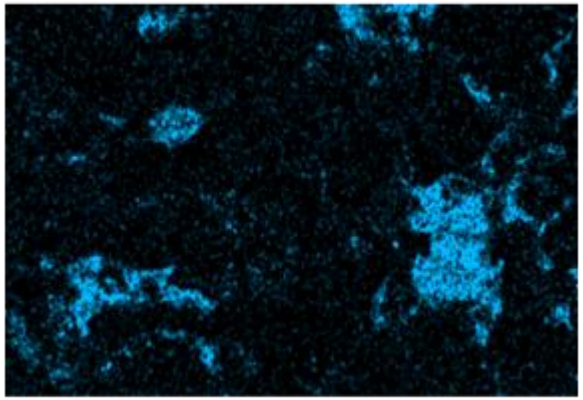
50µm

Ca Kα1



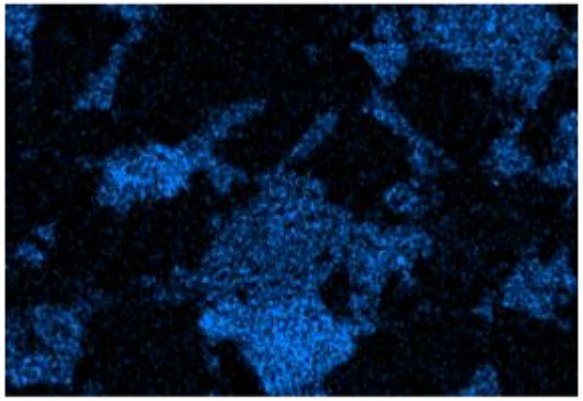
50µm

Al Kα1



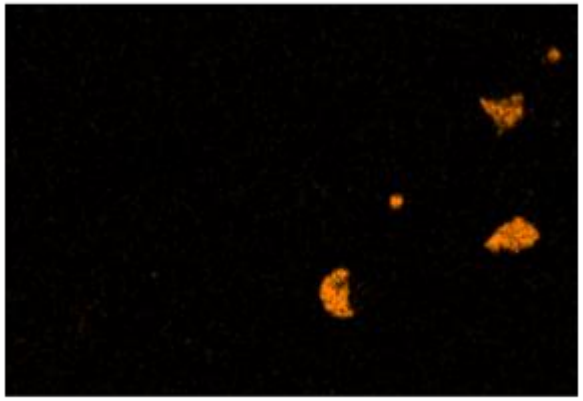
50µm

Mg Kα1_2



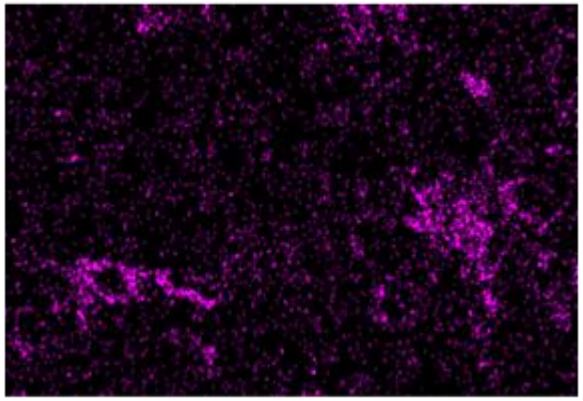
50µm

S Kα1



50µm

K Kα1



50µm

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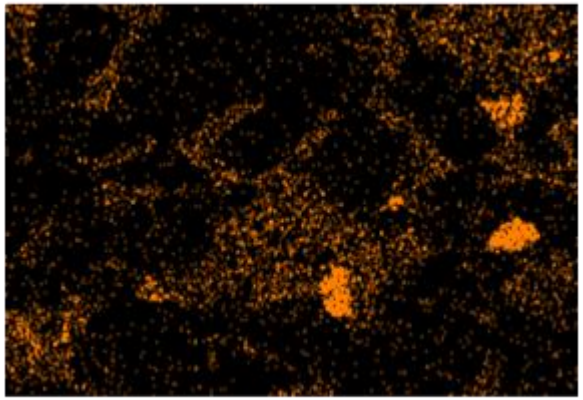
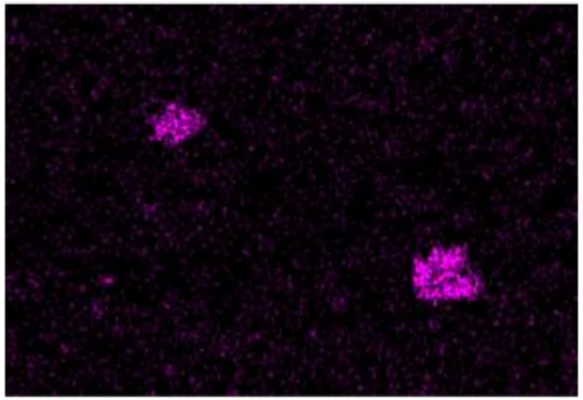
Fe Kα1



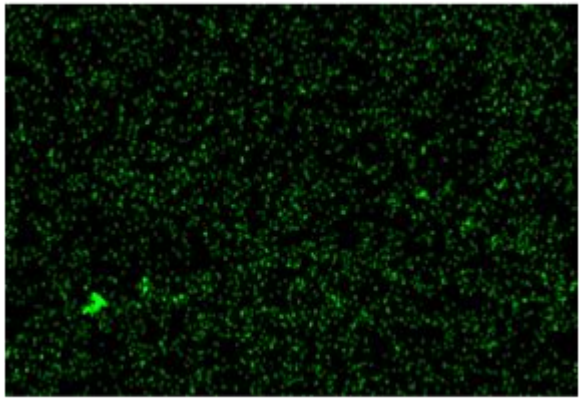
50µm

Na Kα1_2



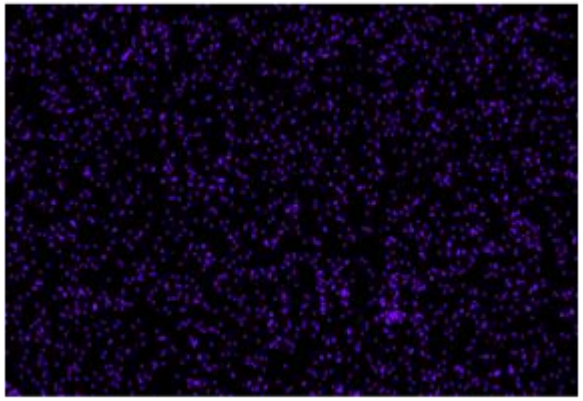
50µm

P Kα1



50µm

Ti Kα1



50µm

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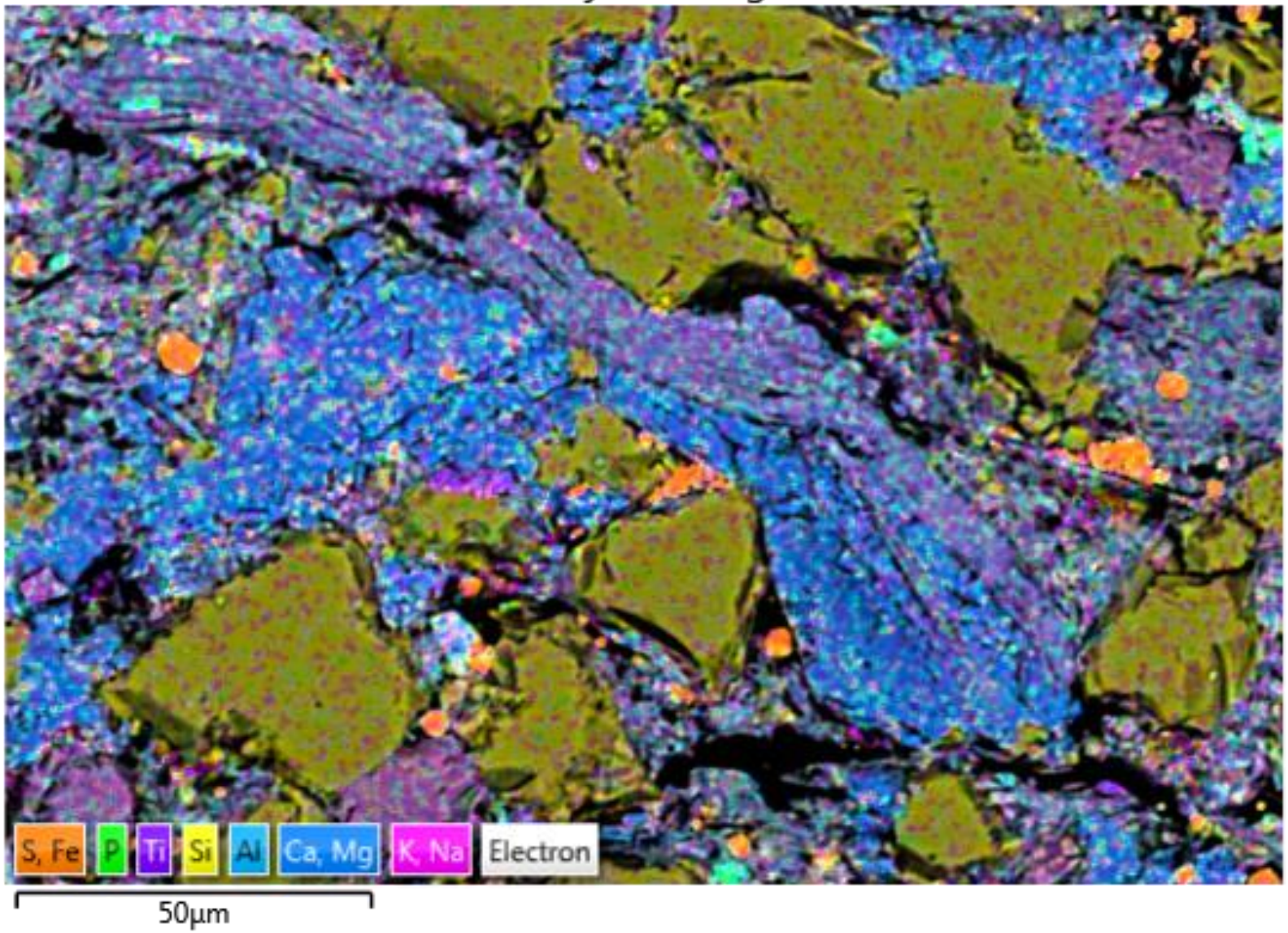
EDS Layered Image 8



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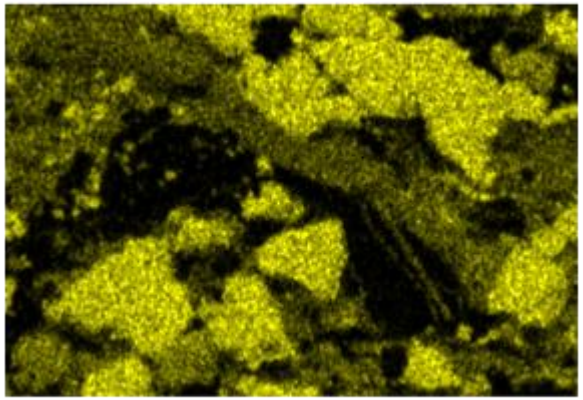
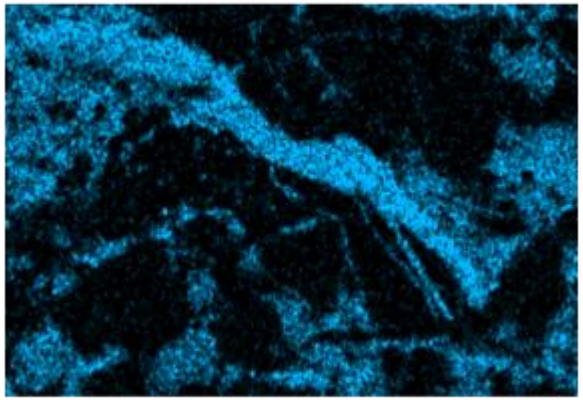
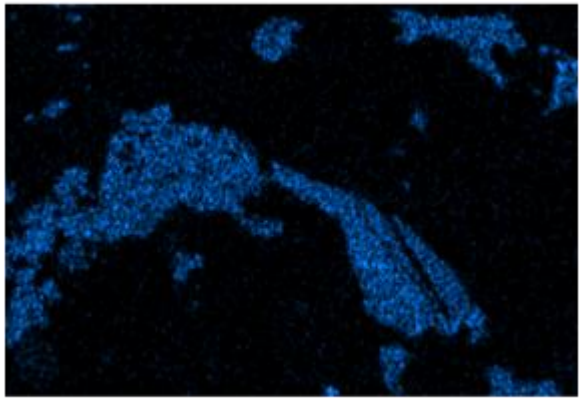
Si Kα1



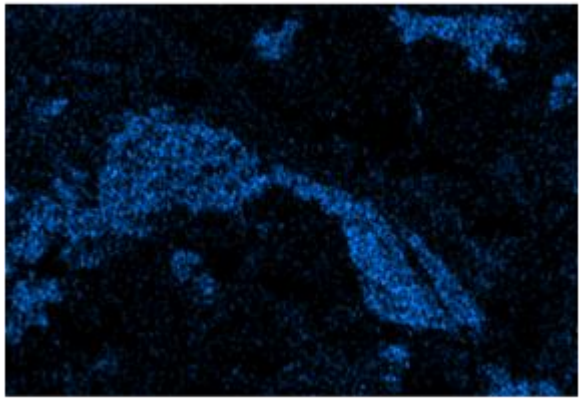
Al Kα1



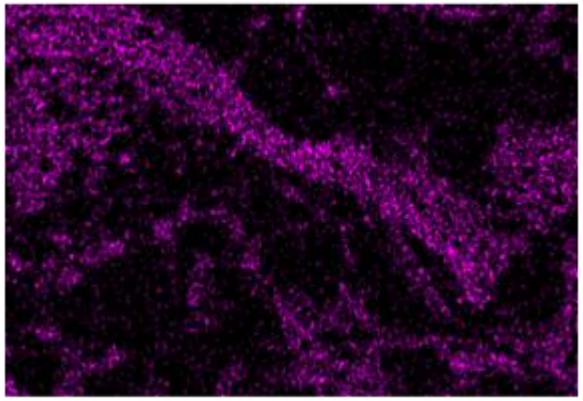
Ca Kα1



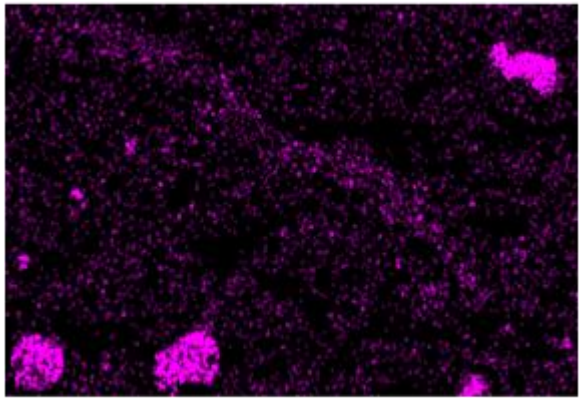
Mg Kα1_2



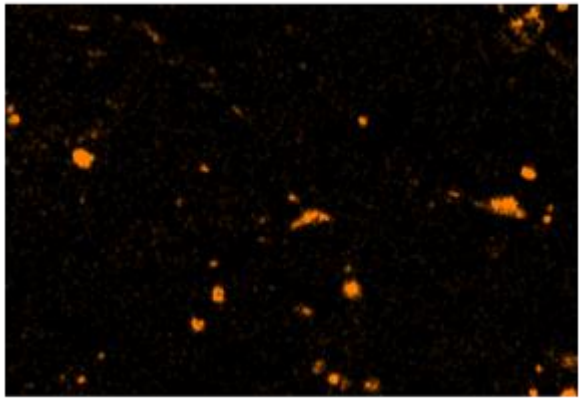
K Kα1



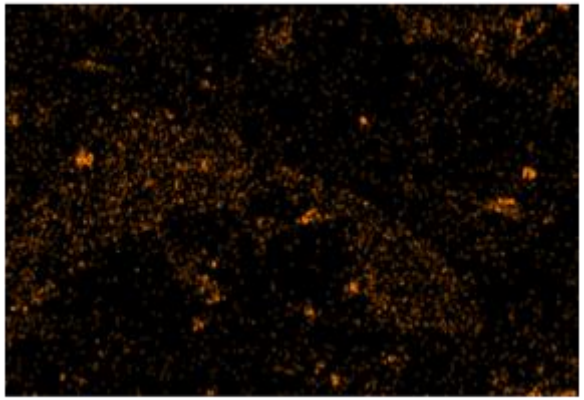
Na Kα1_2



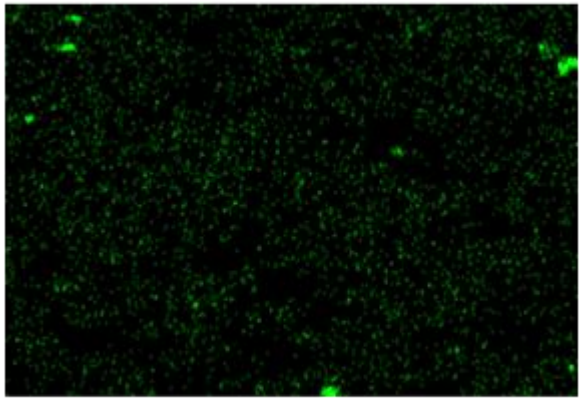
S Kα1



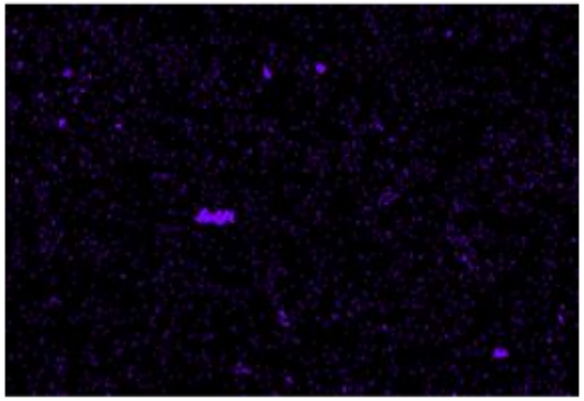
Fe Kα1



P Kα1



Ti Kα1



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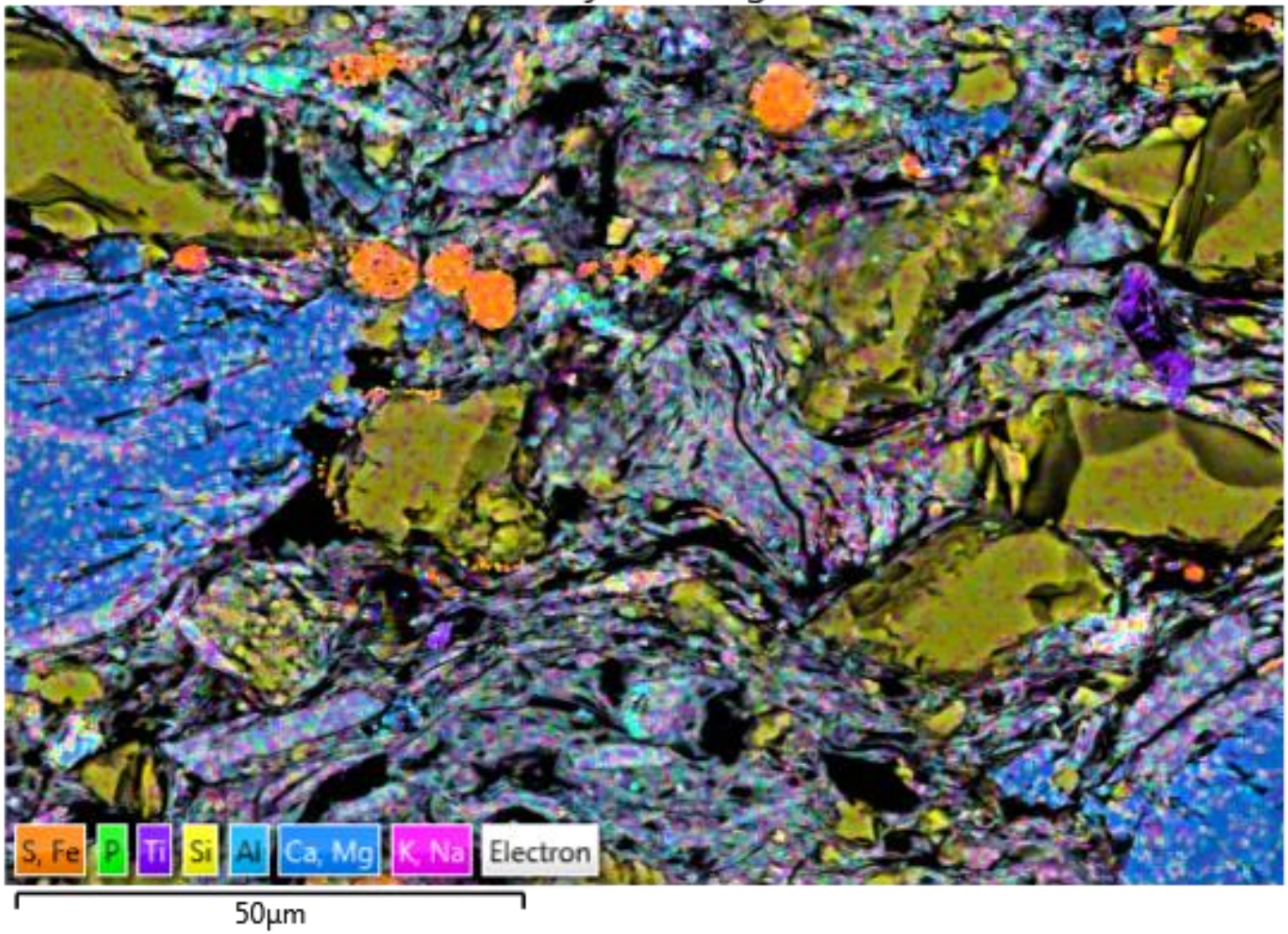
EDS Layered Image 9



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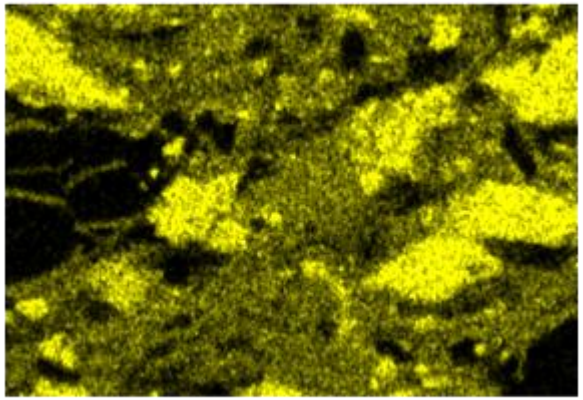
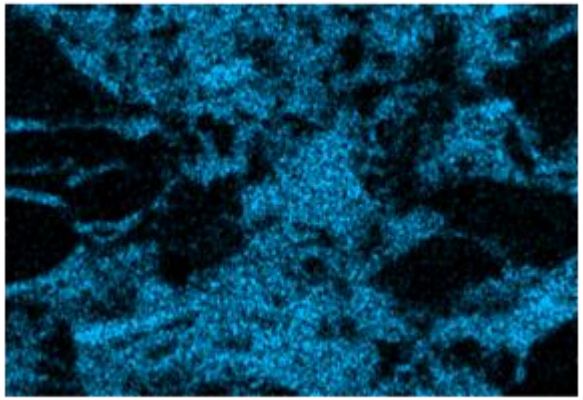
Si Kα1



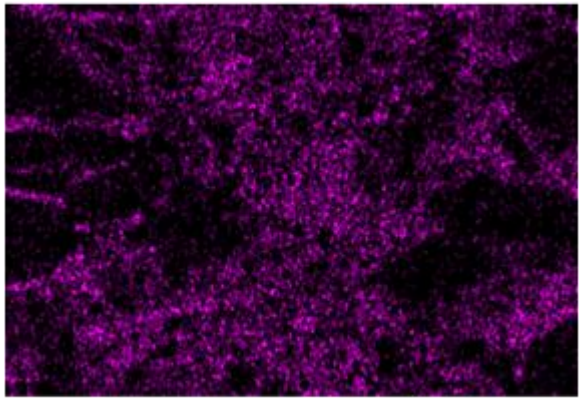
50µm

Al Kα1



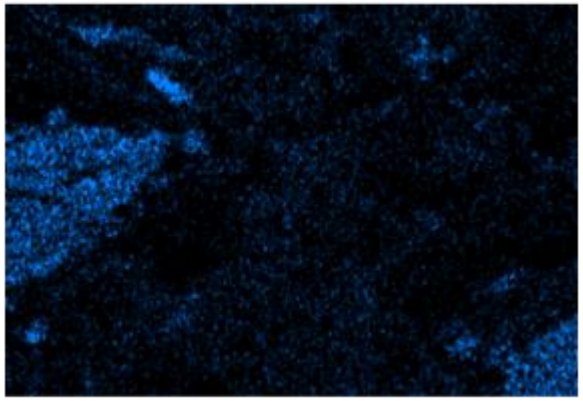
50µm

K Kα1



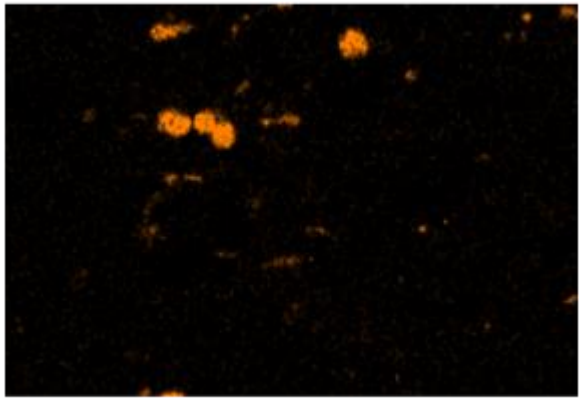
50µm

Mg Kα1_2



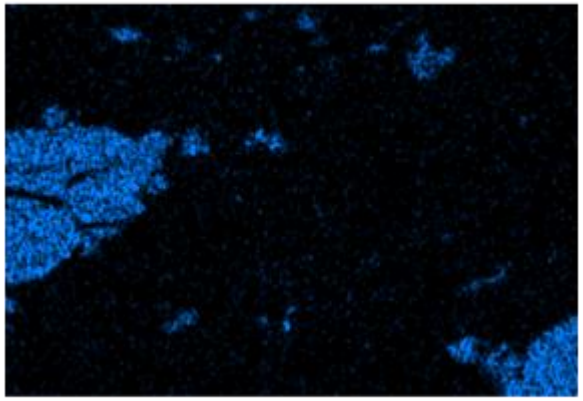
50µm

S Kα1



50µm

Ca Kα1



50µm

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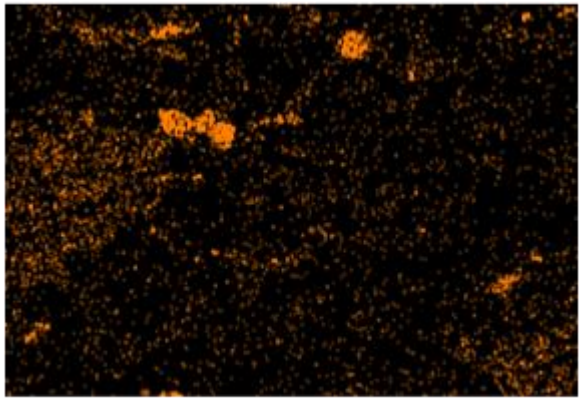
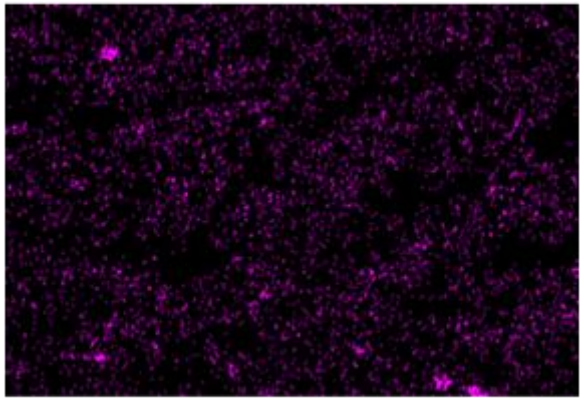
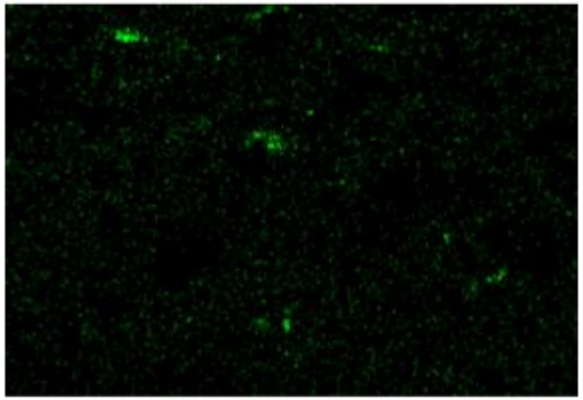
Fe Kα1



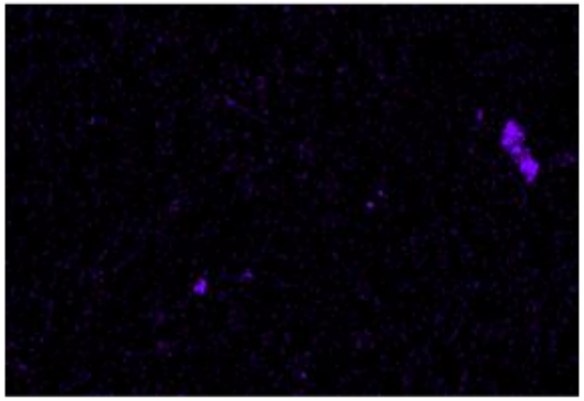
Na Kα1_2



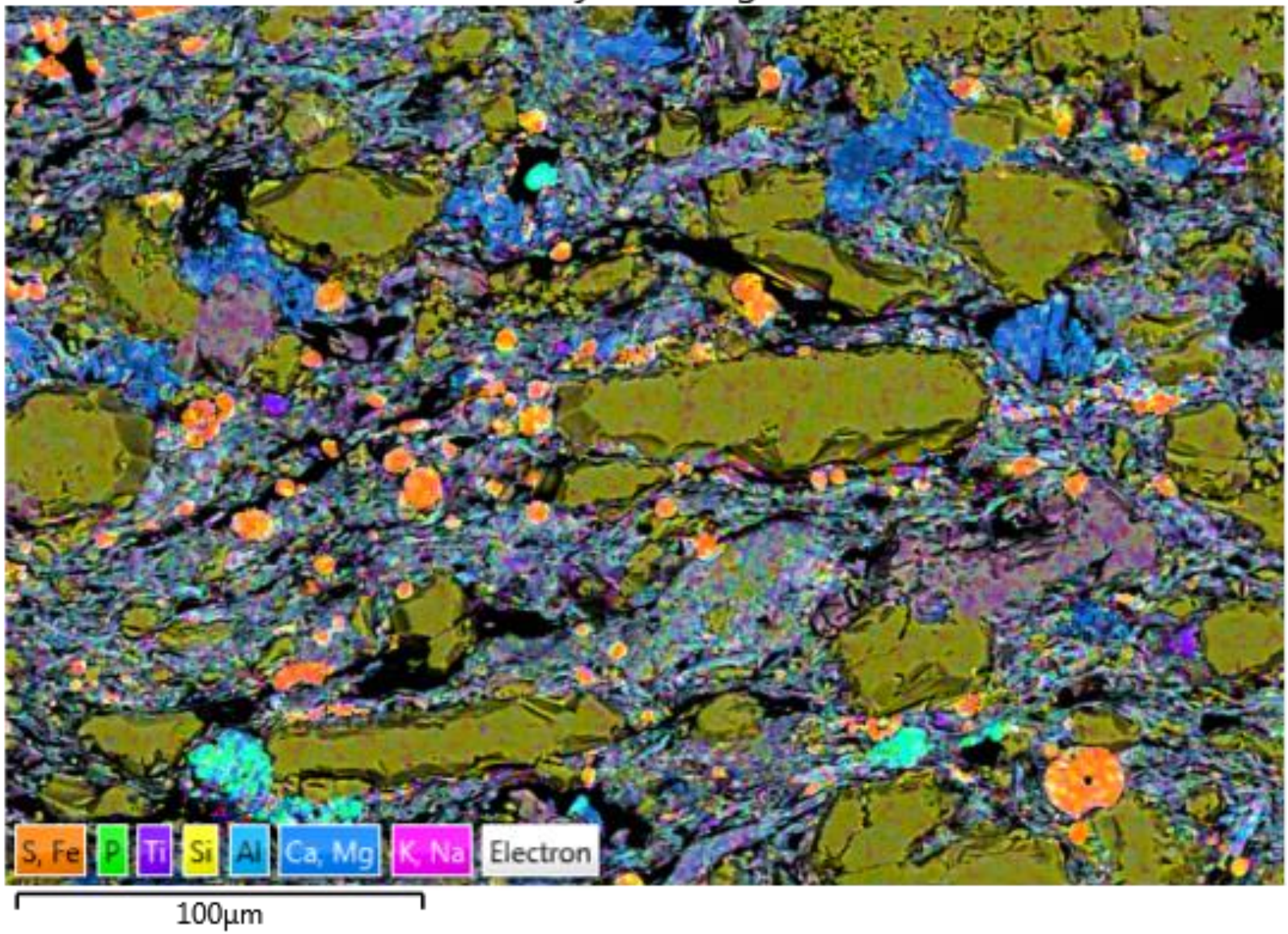
P Kα1



Ti Kα1



EDS Layered Image 10



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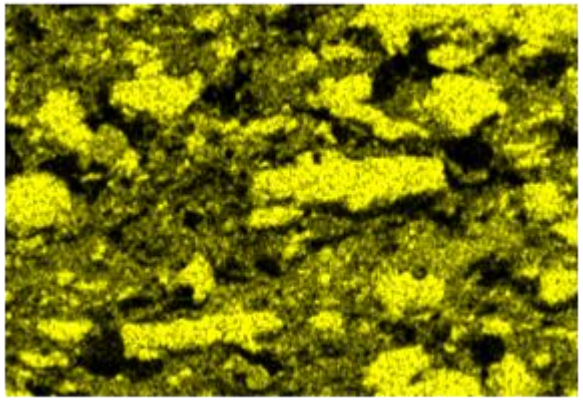
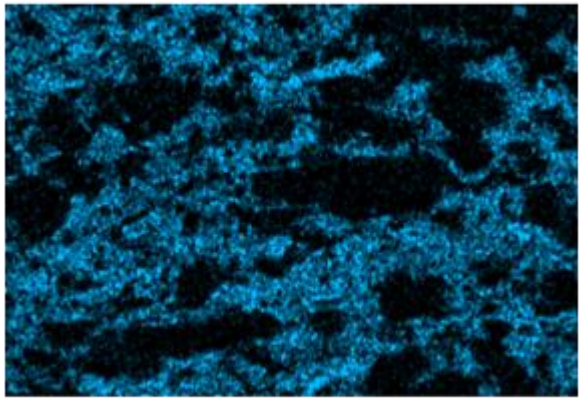
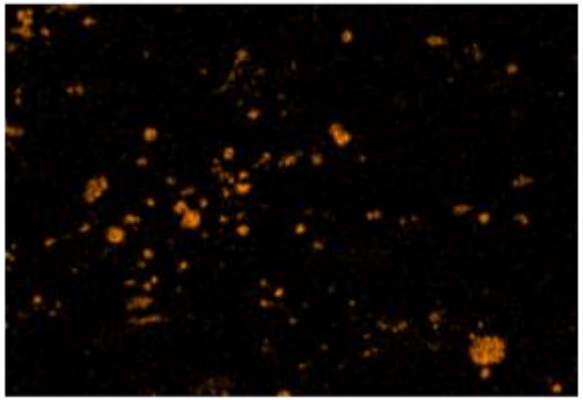
Si Kα1



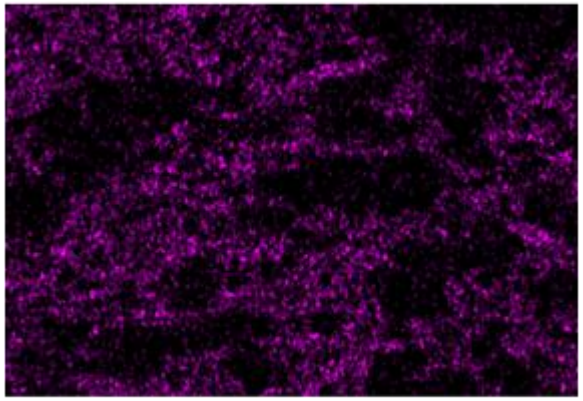
Al Kα1



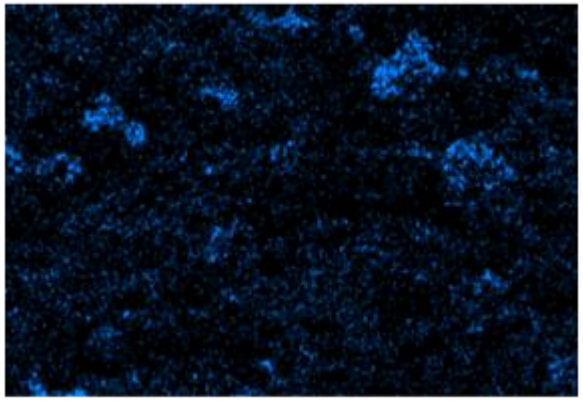
S Kα1



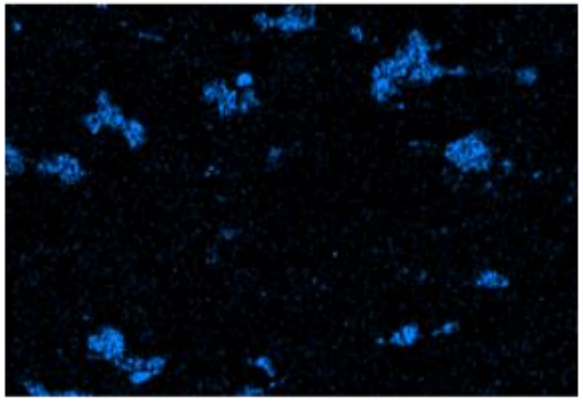
K Kα1



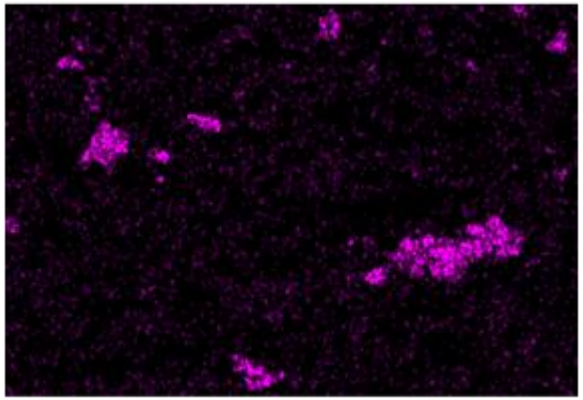
Mg Kα1_2



Ca Kα1

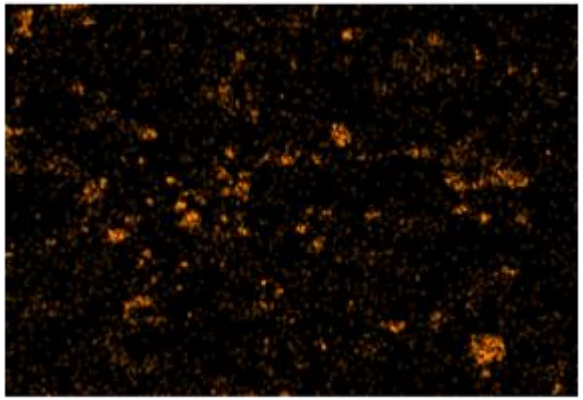


Na Kα1_2



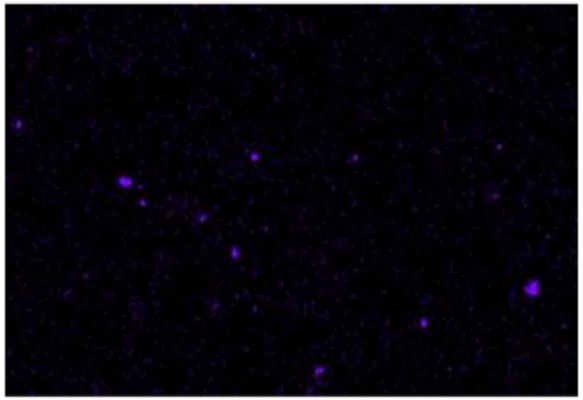
100µm

Fe Kα1



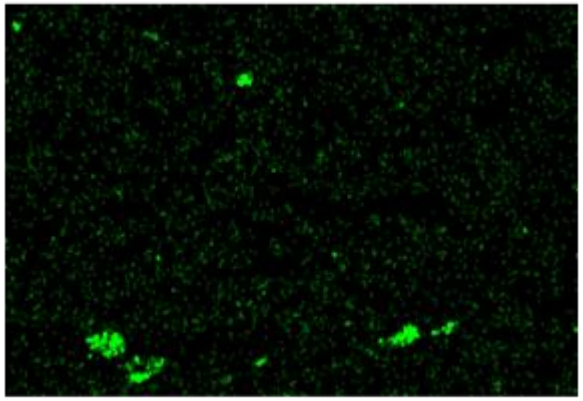
100µm

Ti Kα1



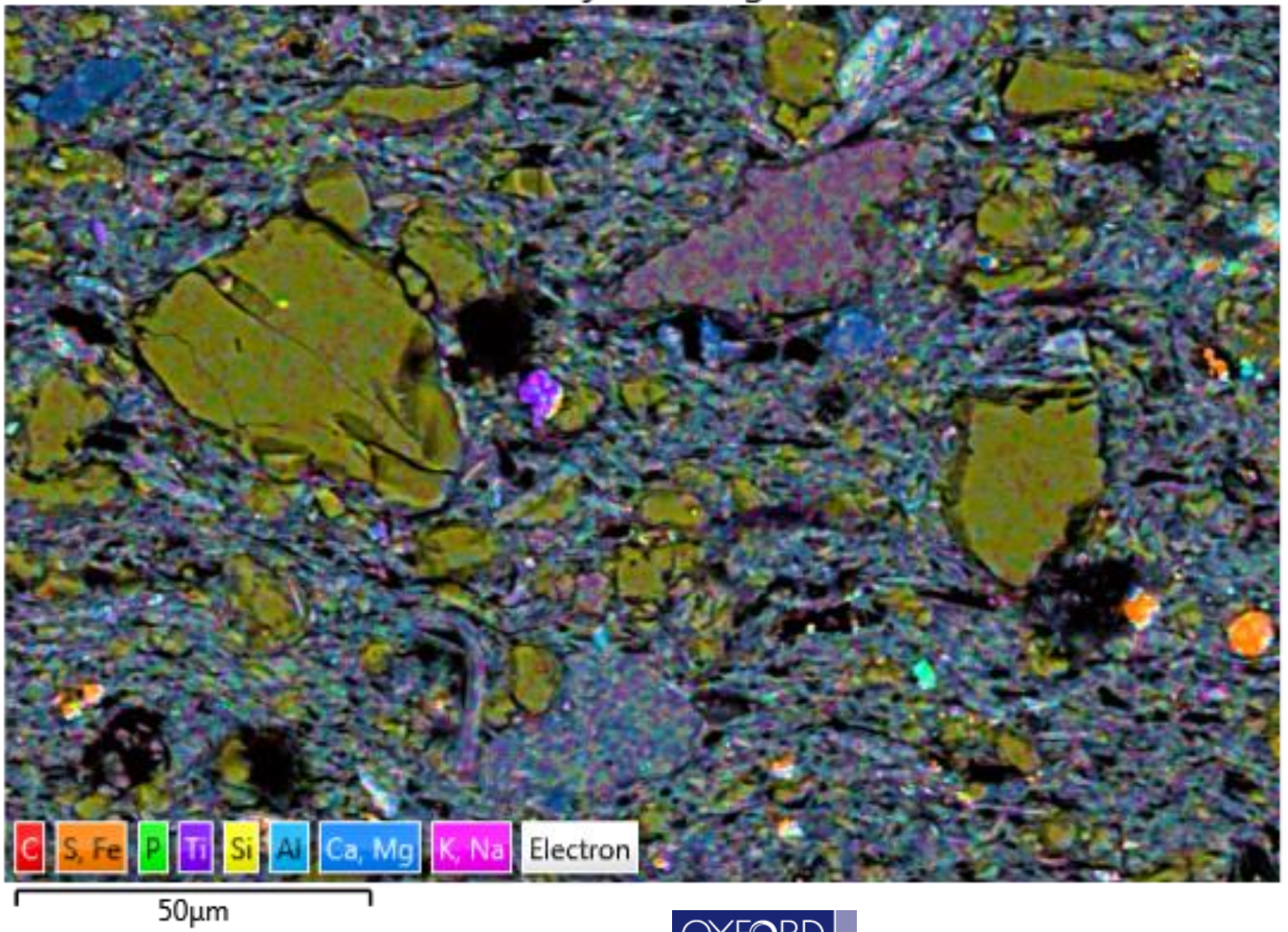
100µm

P Kα1



100µm

EDS Layered Image 1



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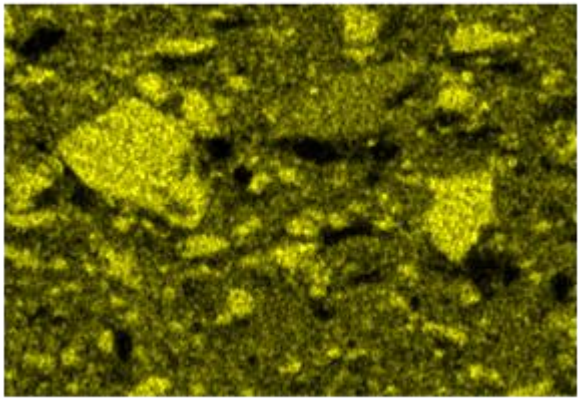
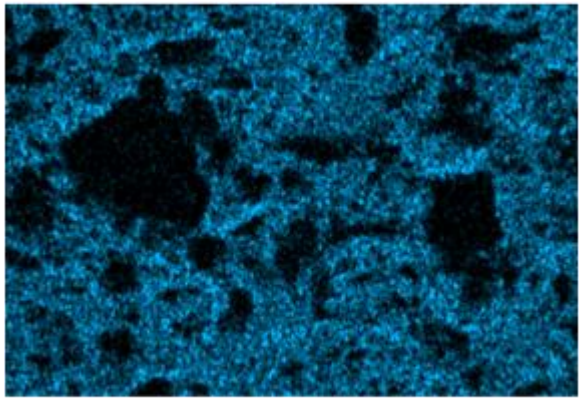
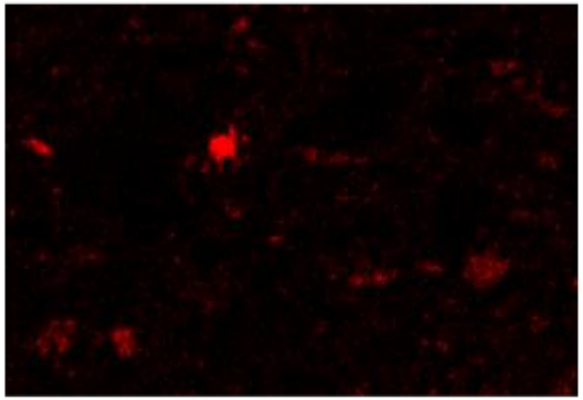
Si Kα1



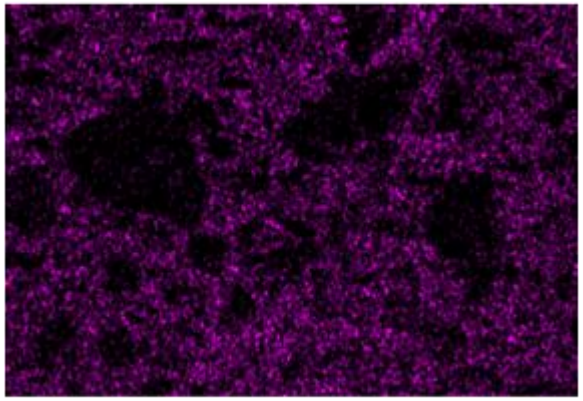
Al Kα1



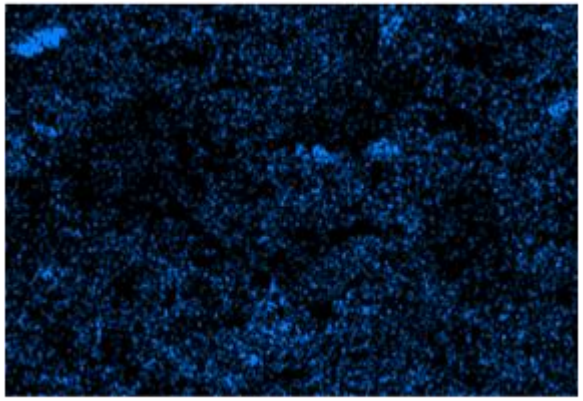
C Kα1_2



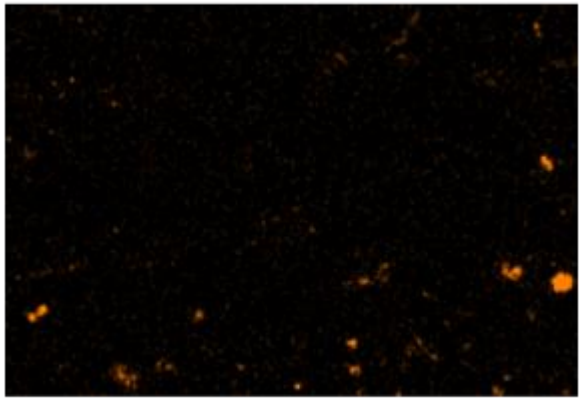
K Kα1



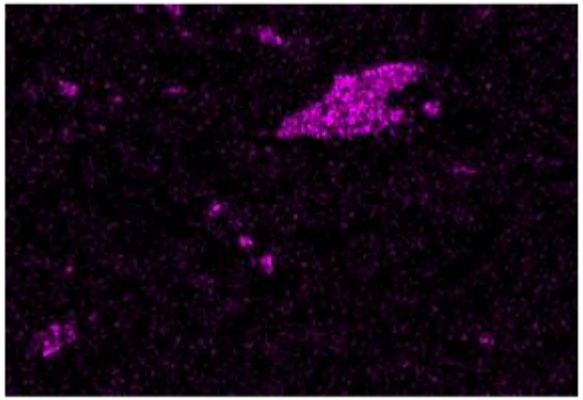
Mg Kα1_2



S Kα1

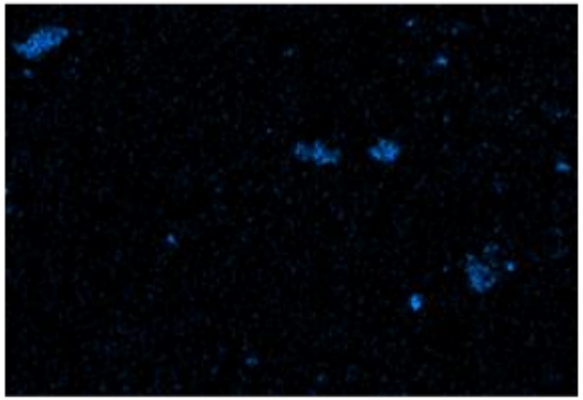


Na Kα1_2



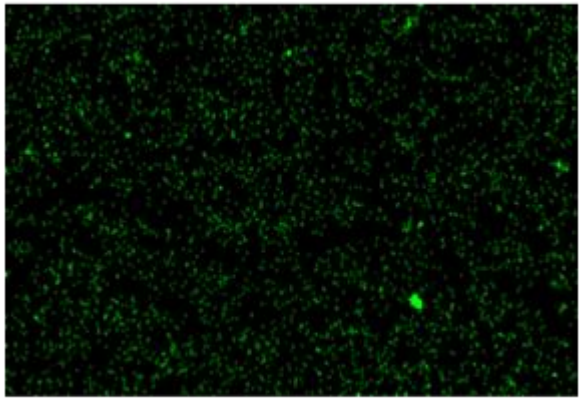
50µm

Ca Kα1



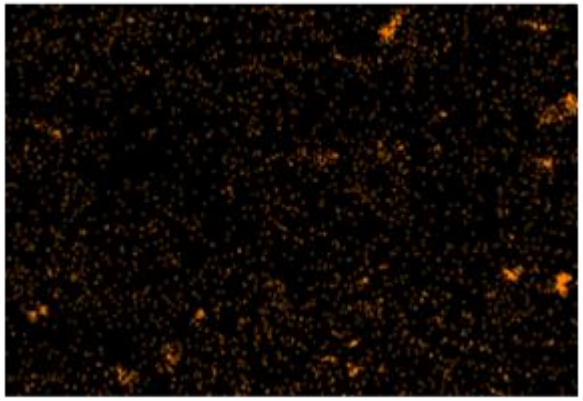
50µm

P Kα1



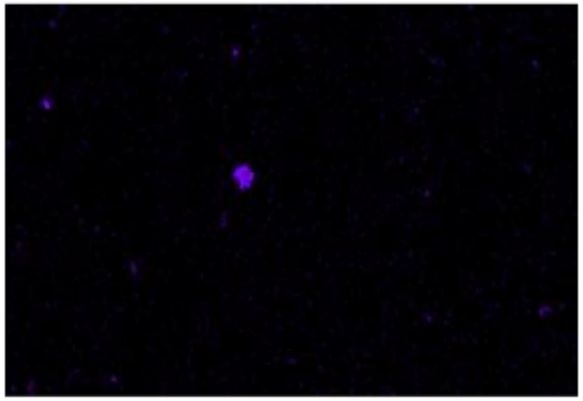
50µm

Fe Kα1



50µm

Ti Kα1



50µm

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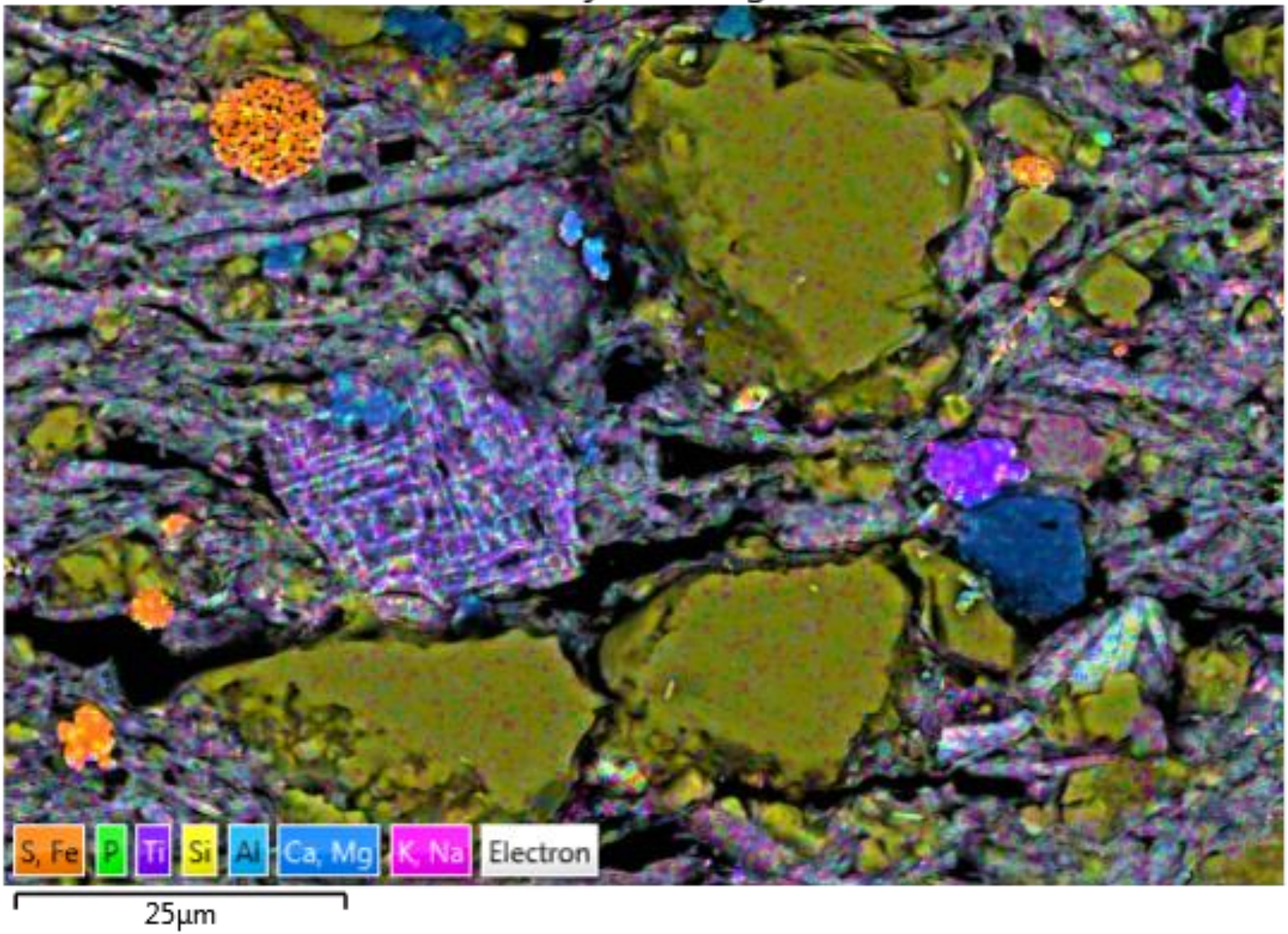
EDS Layered Image 2



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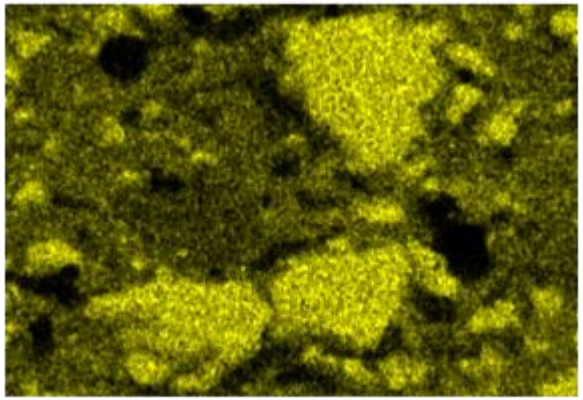
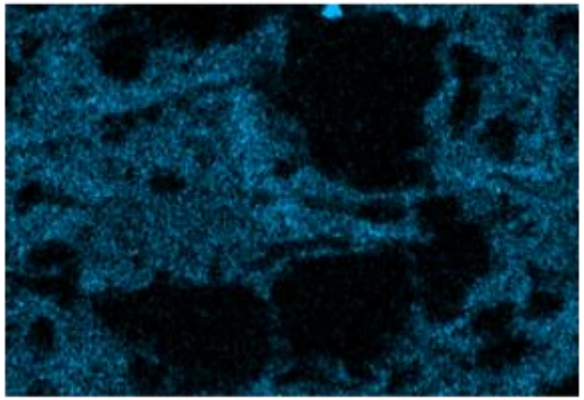
Si Kα1



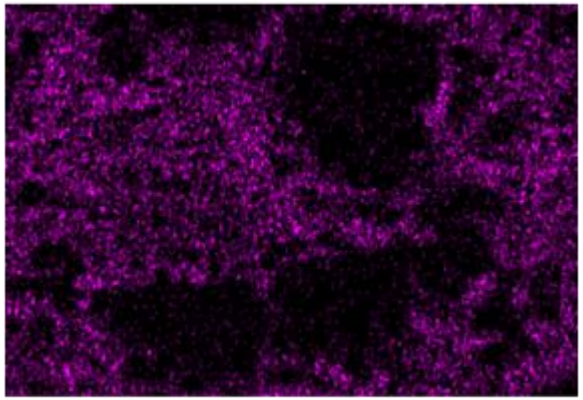
25µm

Al Kα1



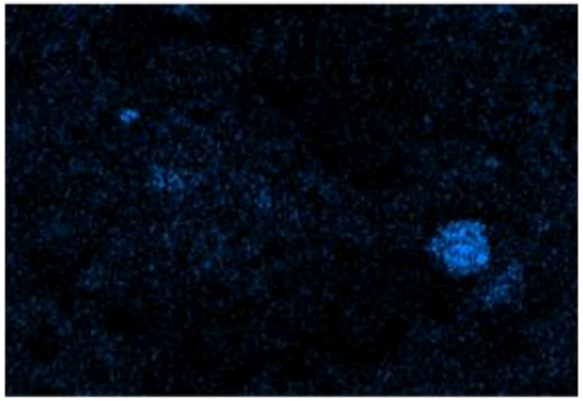
25µm

K Kα1



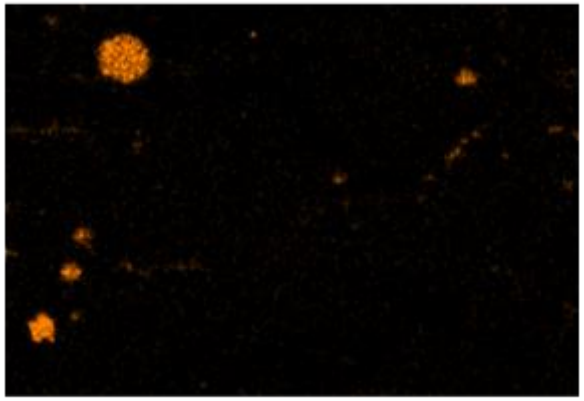
25µm

Mg Kα1_2



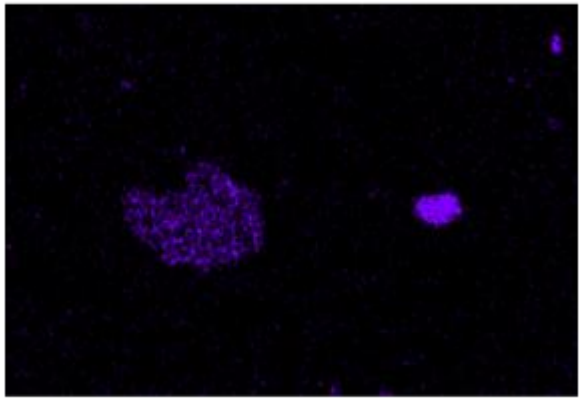
25µm

S Kα1



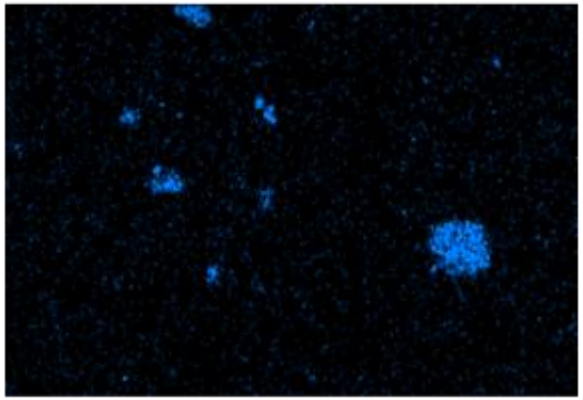
25µm

Ti Kα1

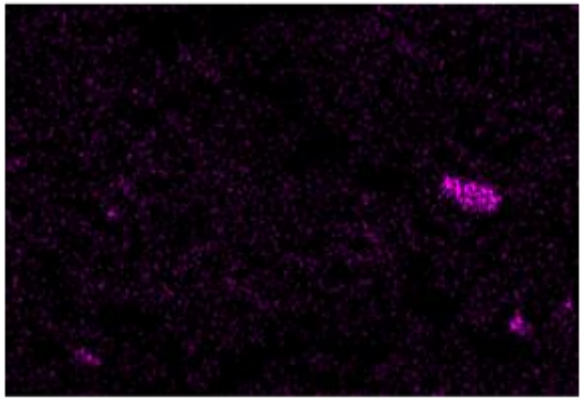


25µm

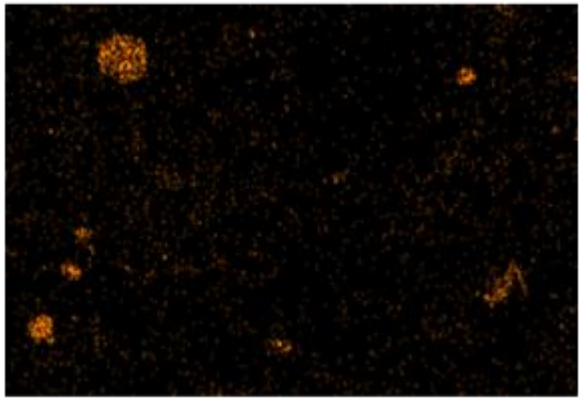
Ca Kα1



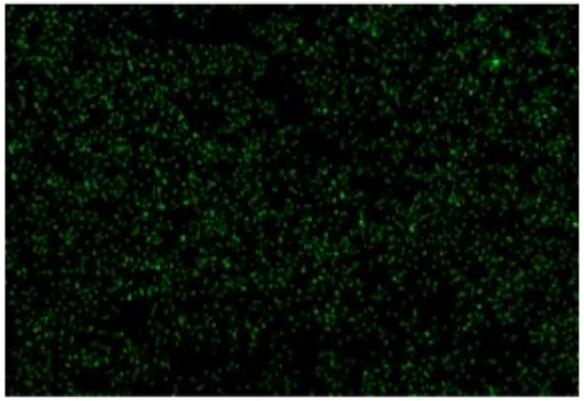
Na Kα1_2



Fe Kα1



P Kα1



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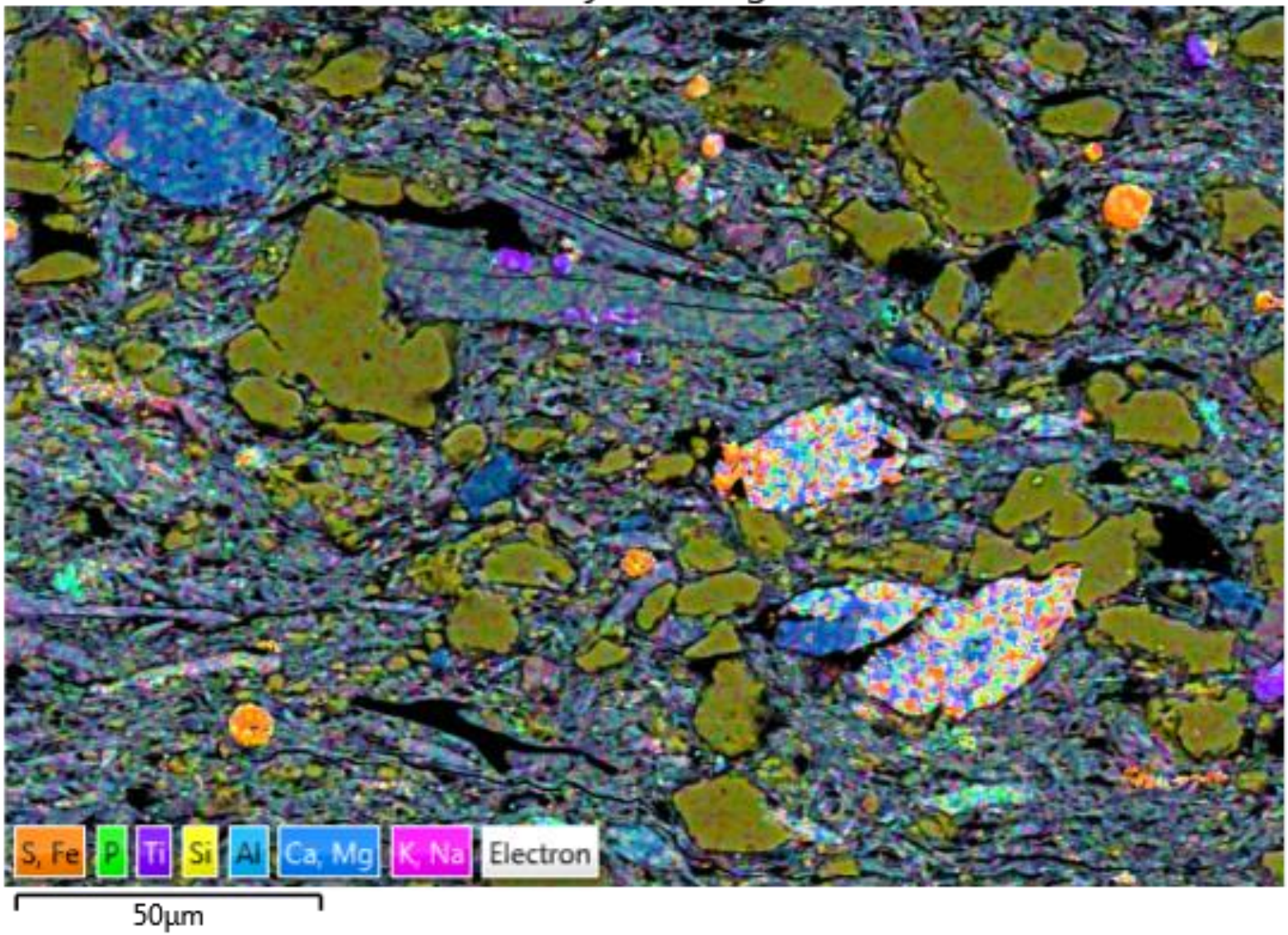
EDS Layered Image 1



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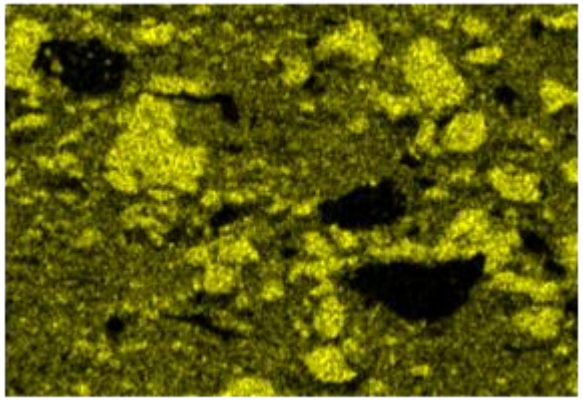
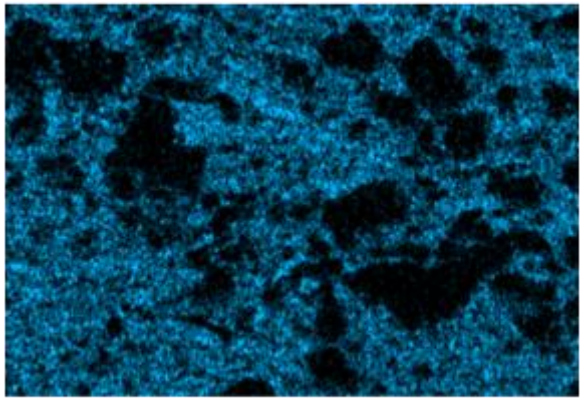
Si Kα1



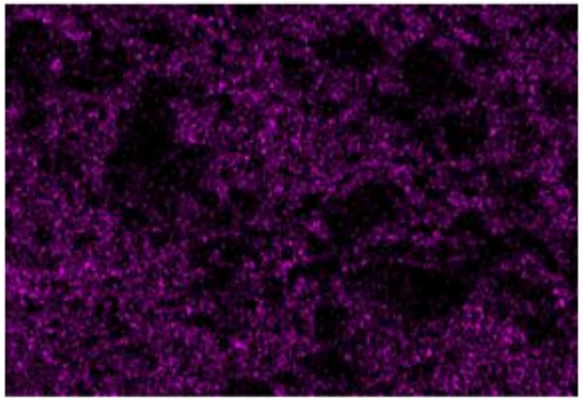
50µm

Al Kα1



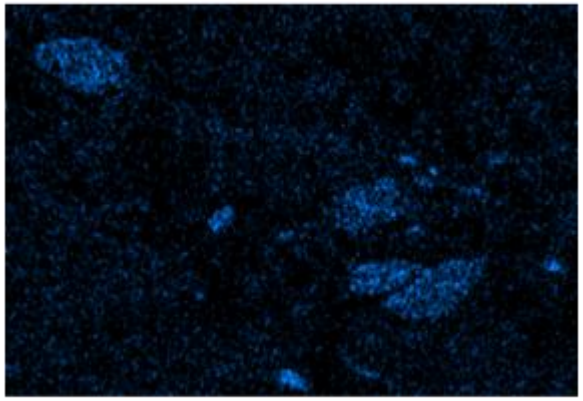
50µm

K Kα1



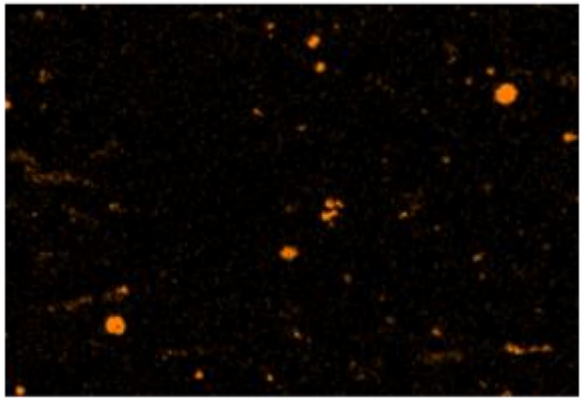
50µm

Mg Kα1_2



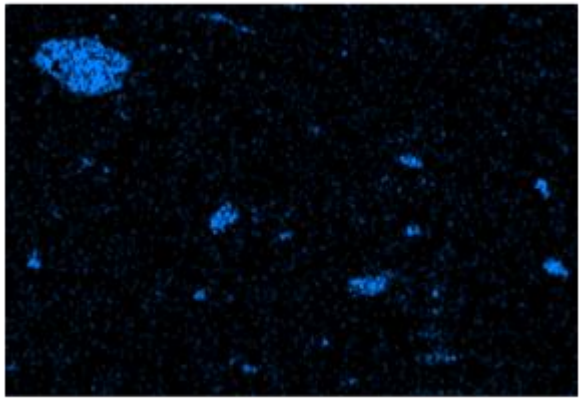
50µm

S Kα1



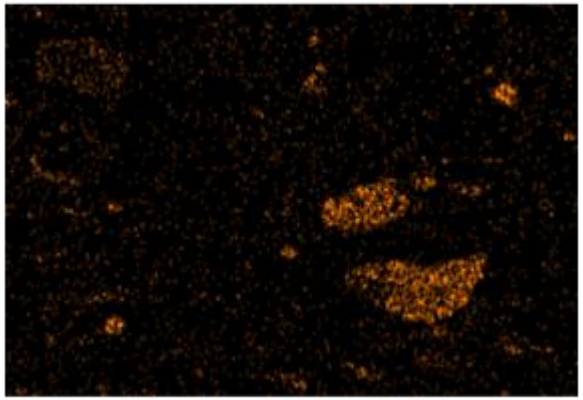
50µm

Ca Kα1

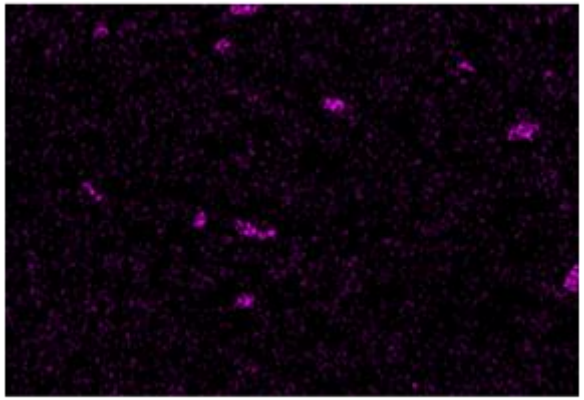


50µm

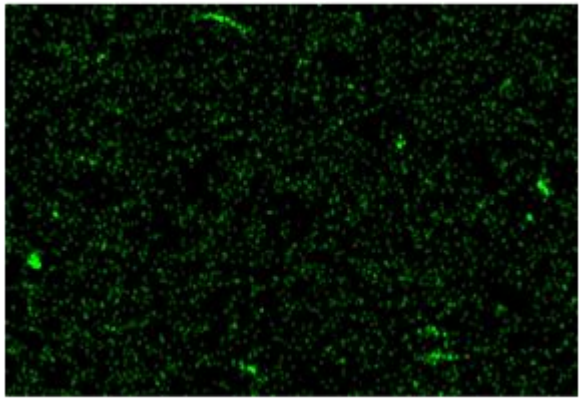
Fe Kα1



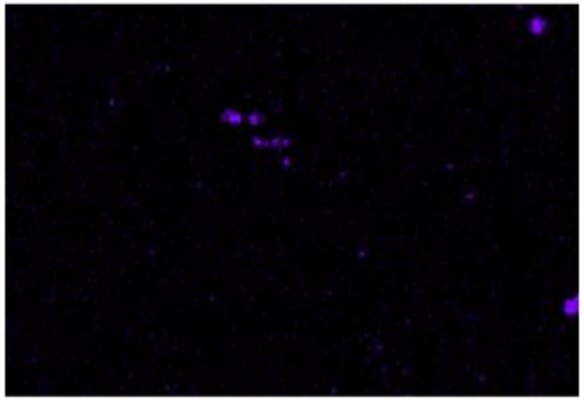
Na Kα1_2



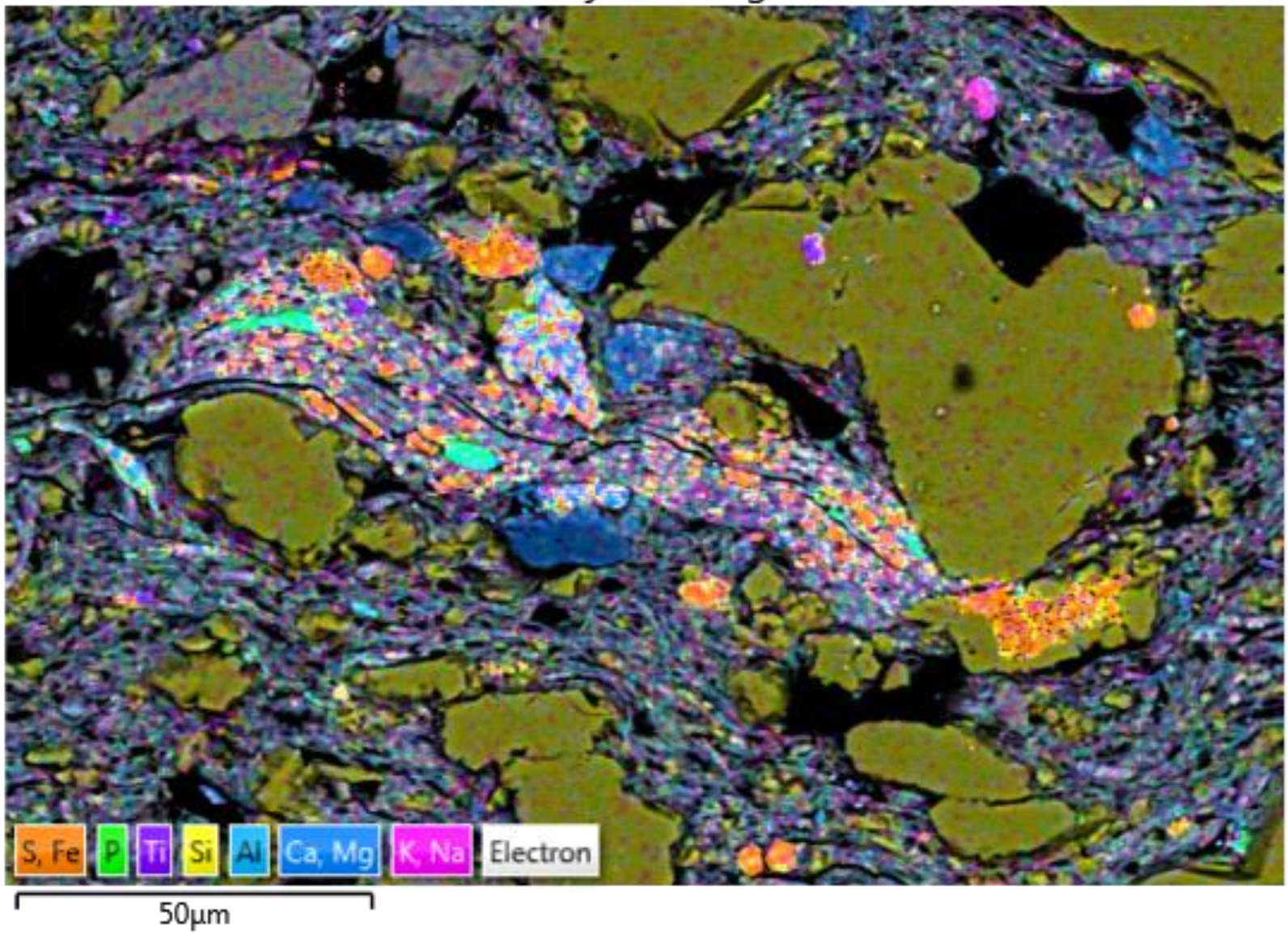
P Kα1



Ti Kα1



EDS Layered Image 2



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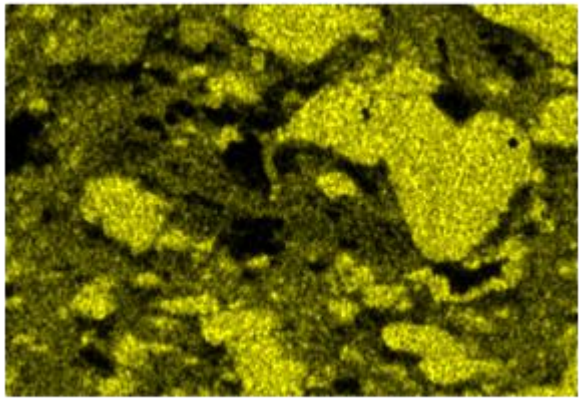
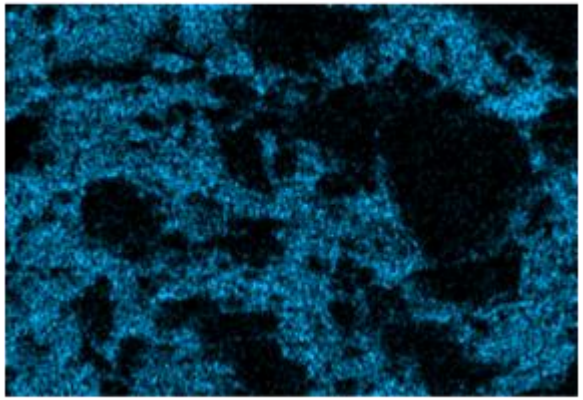
Si Kα1



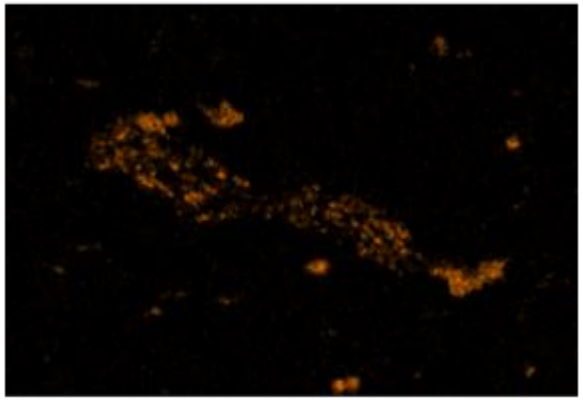
50µm

Al Kα1



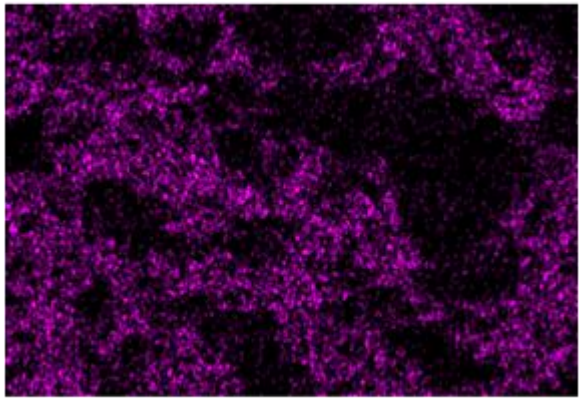
50µm

S Kα1



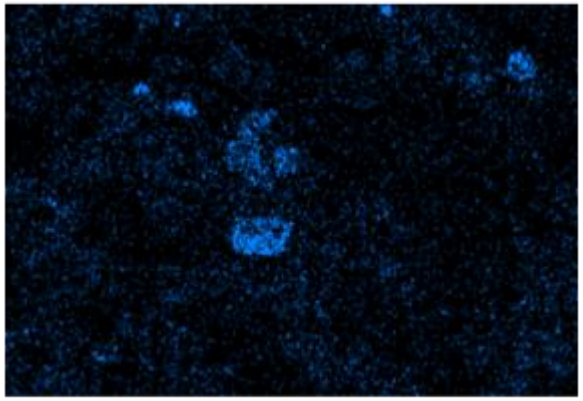
50µm

K Kα1



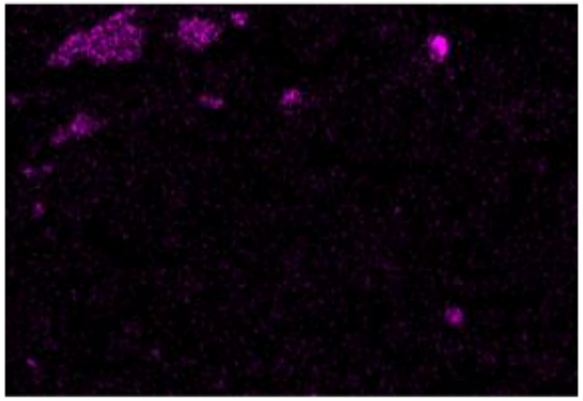
50µm

Mg Kα1_2



50µm

Na Kα1_2



50µm

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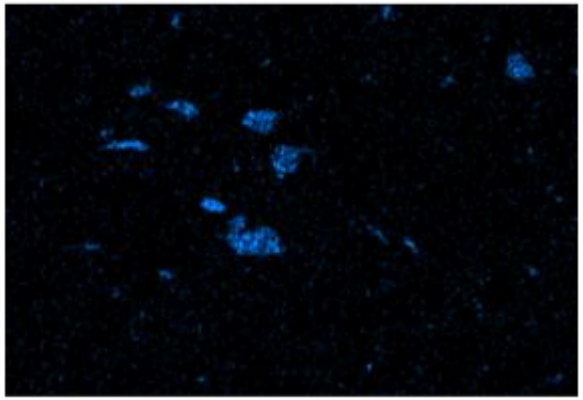
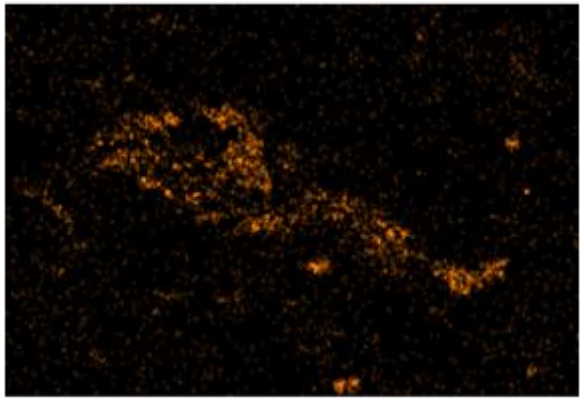
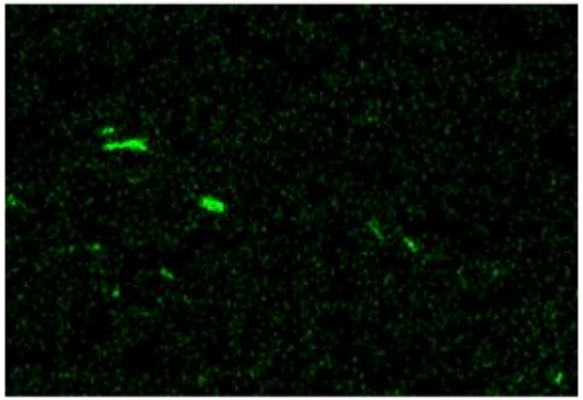
Ca Kα1



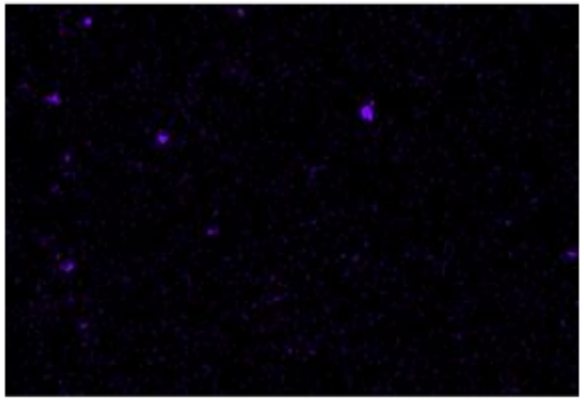
Fe Kα1



P Kα1



Ti Kα1



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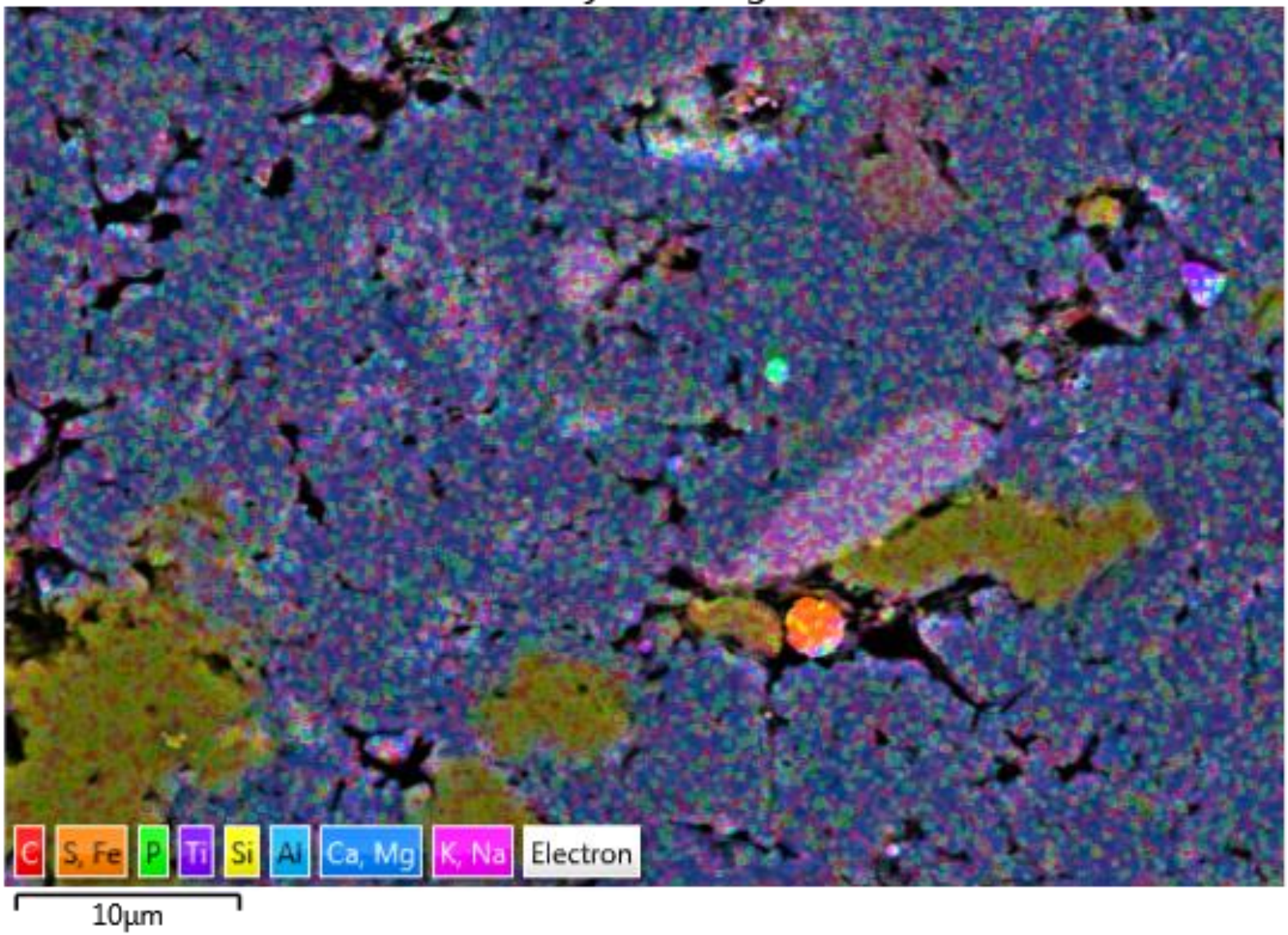
EDS Layered Image 1



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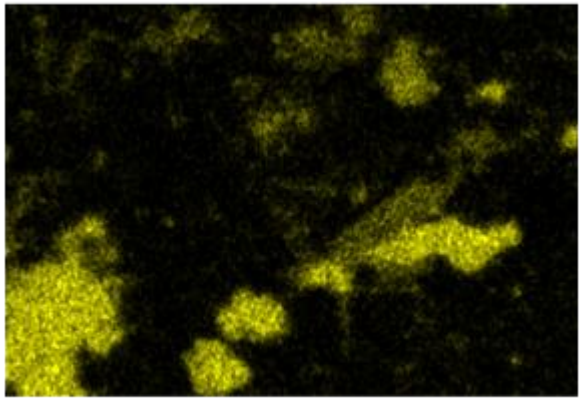
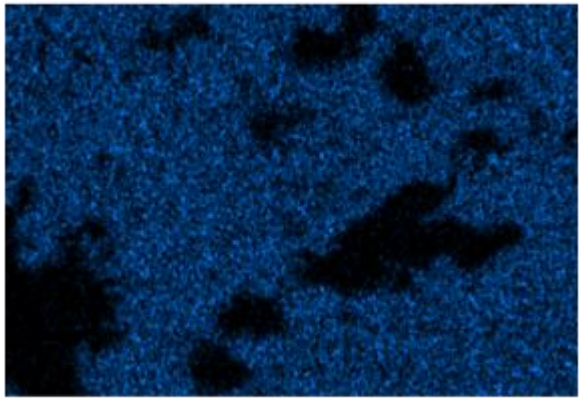
Si Kα1



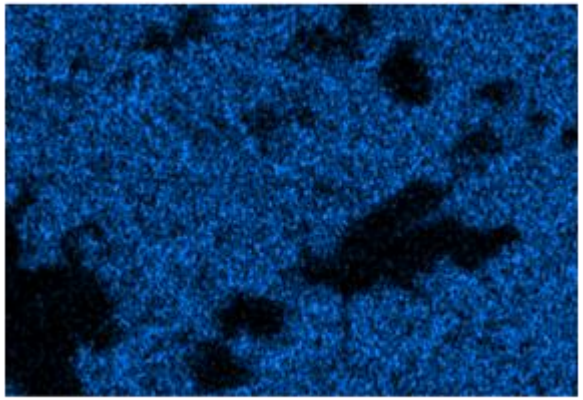
10µm

Ca Kα1



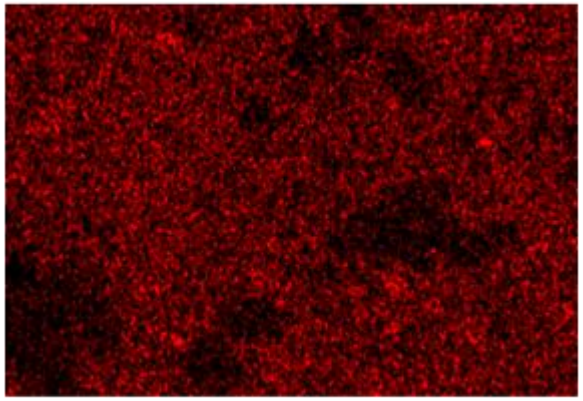
10µm

Mg Kα1_2



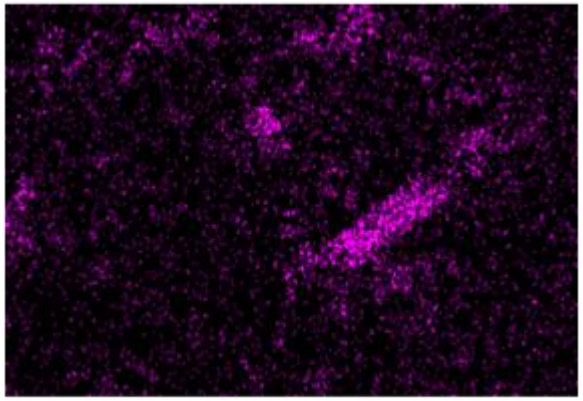
10µm

C Kα1_2



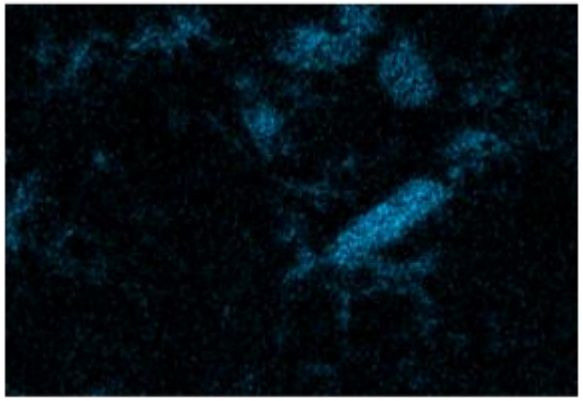
10µm

K Kα1



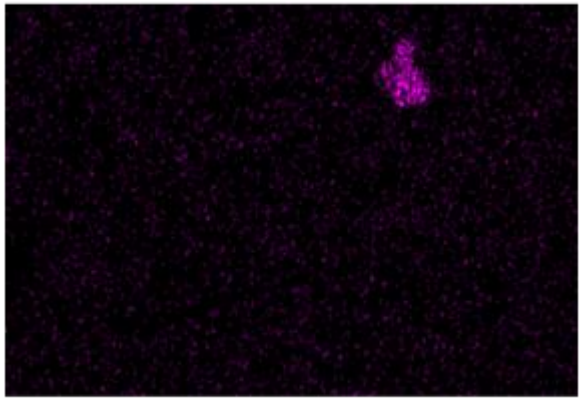
10µm

Al Kα1

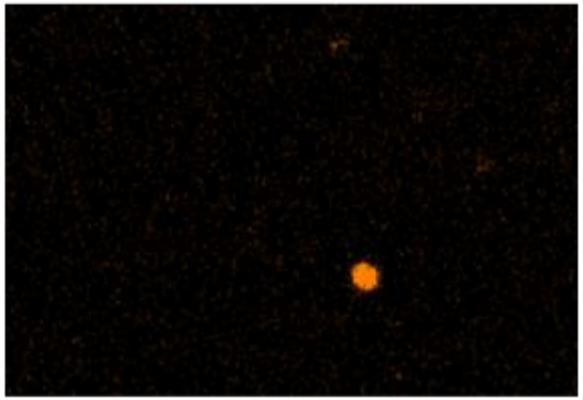


10µm

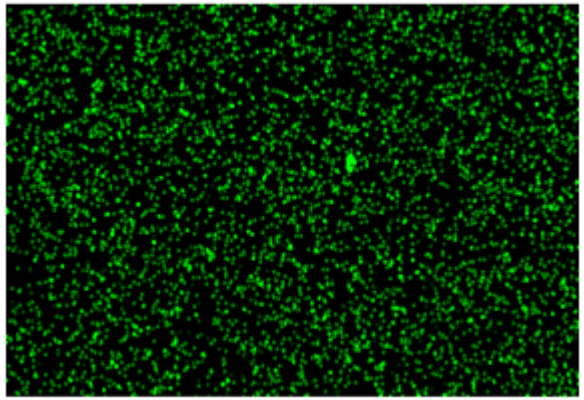
Na Kα1_2



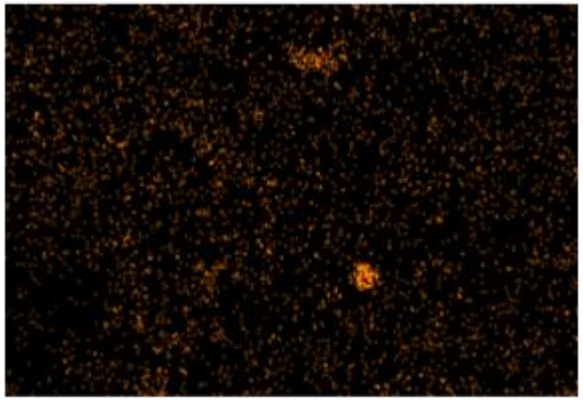
S Kα1



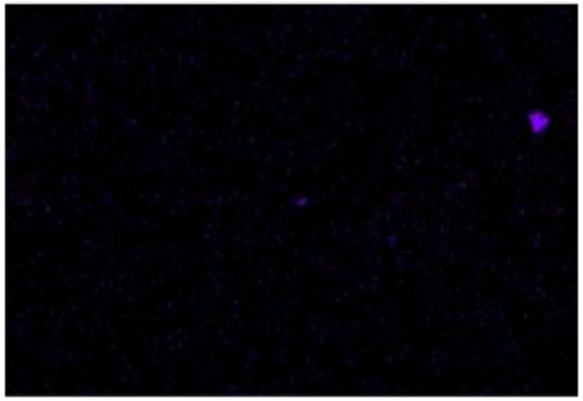
P Kα1



Fe Kα1



Ti Kα1



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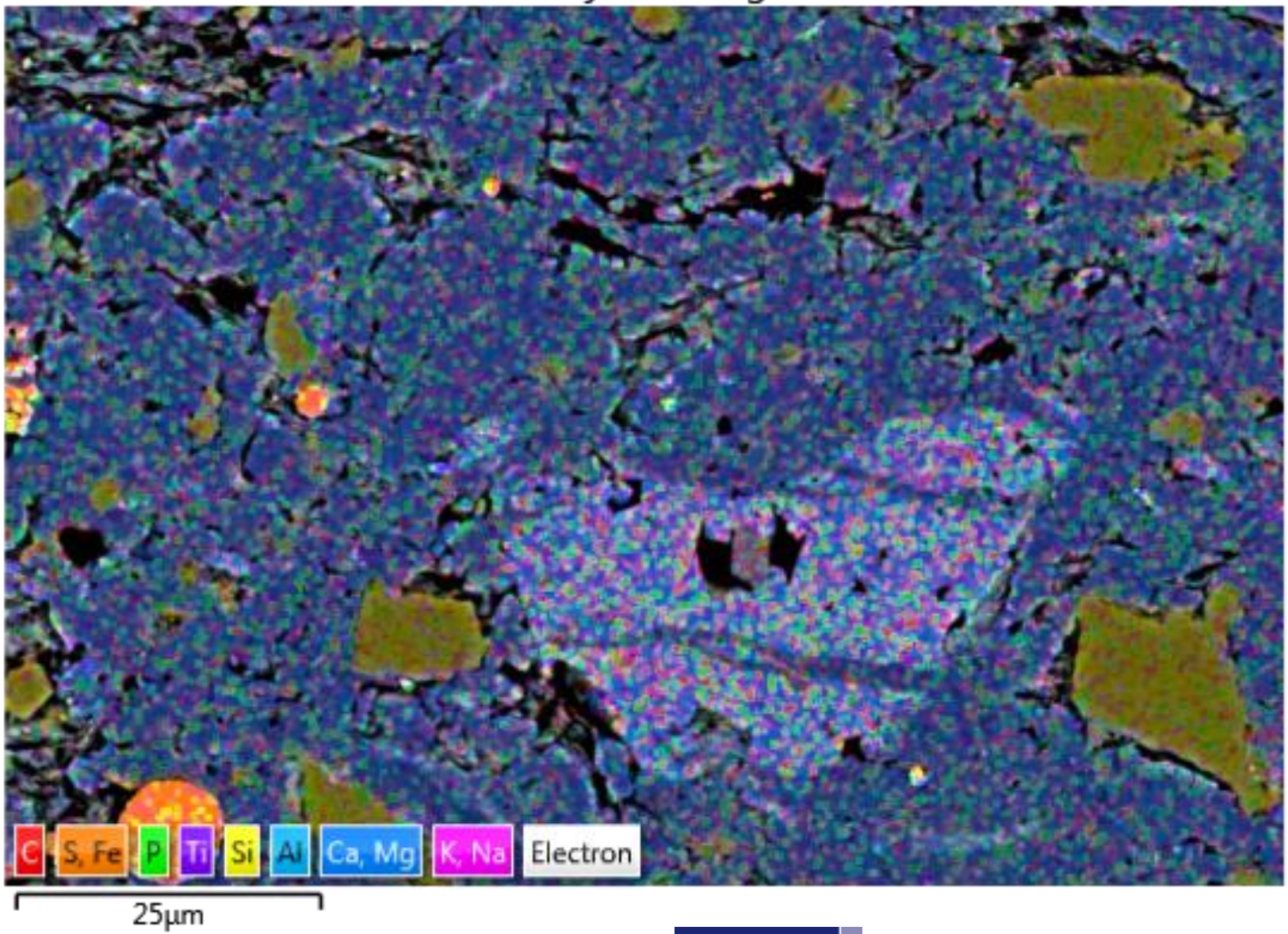
EDS Layered Image 2



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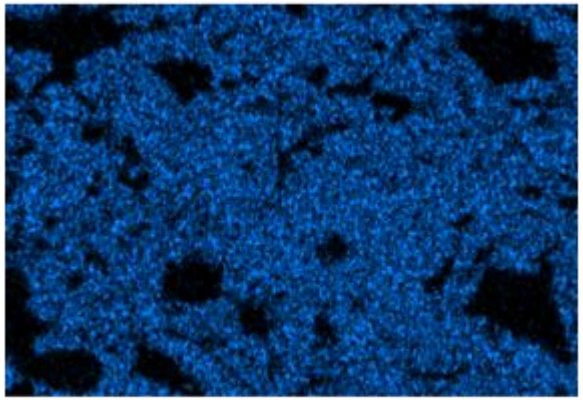
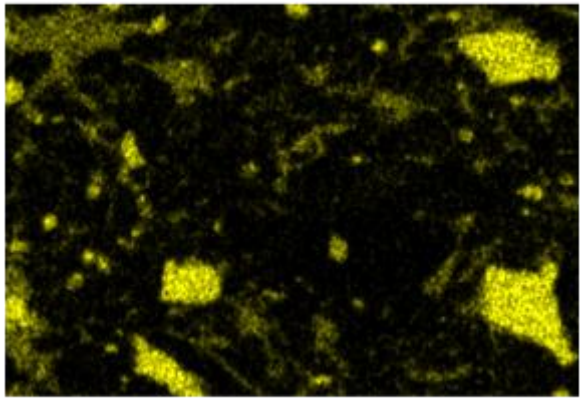
Ca Kα1



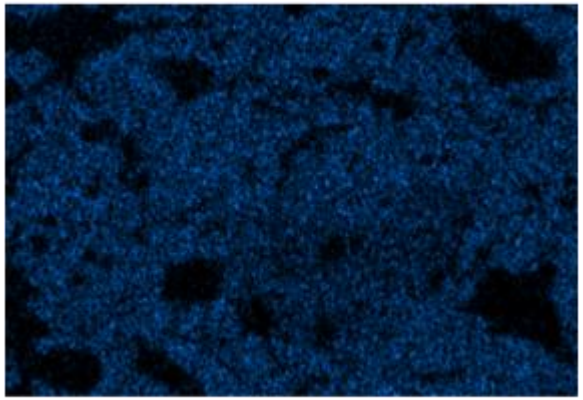
25µm

Si Kα1



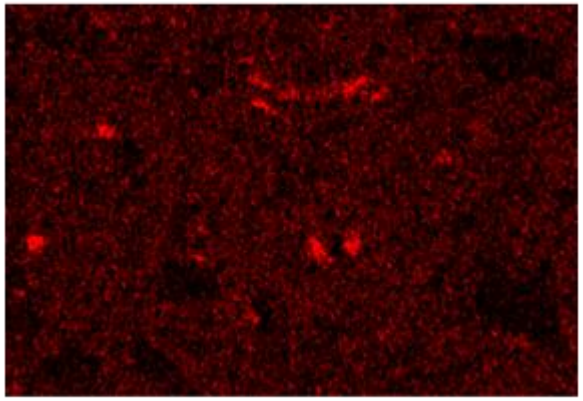
25µm

Mg Kα1_2



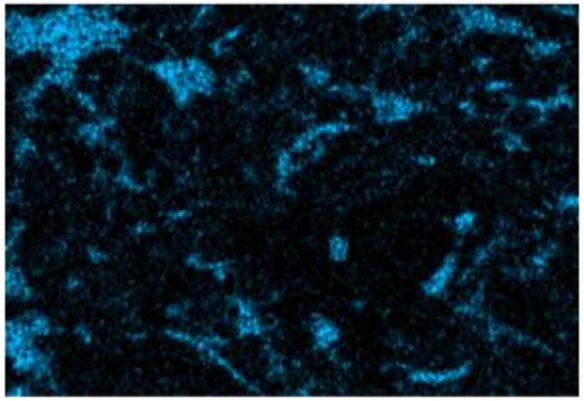
25µm

C Kα1_2



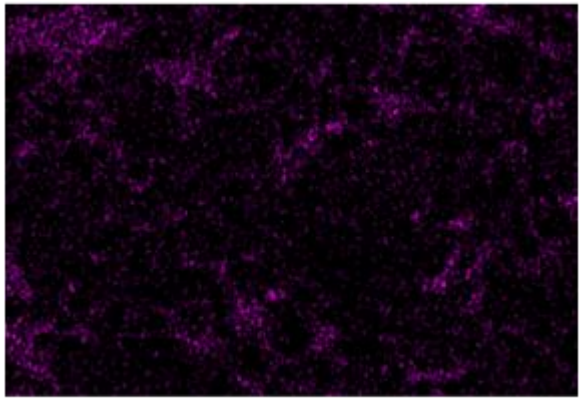
25µm

Al Kα1



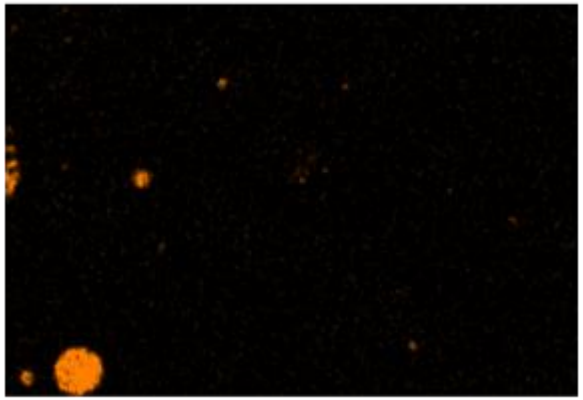
25µm

K Kα1



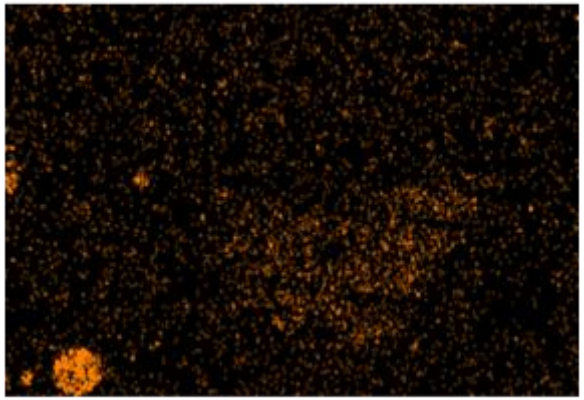
25µm

S Kα1



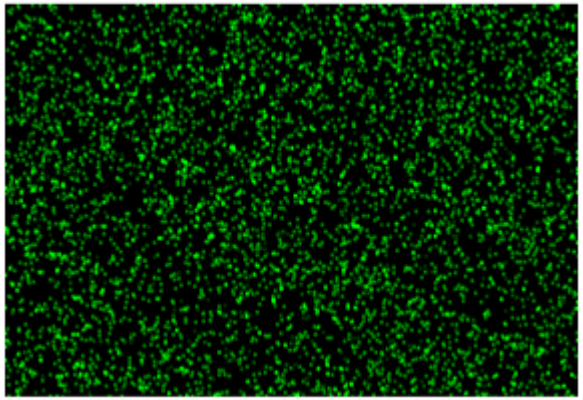
25µm

Fe Kα1



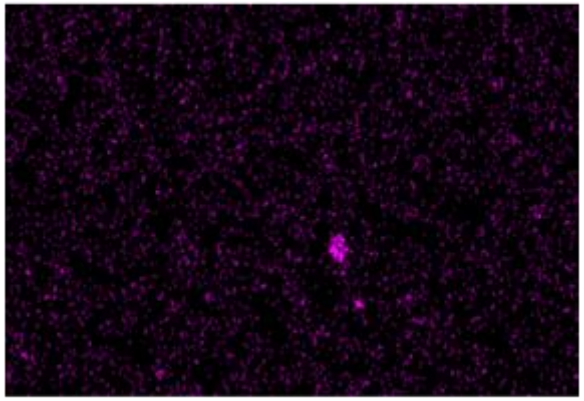
25µm

P Kα1



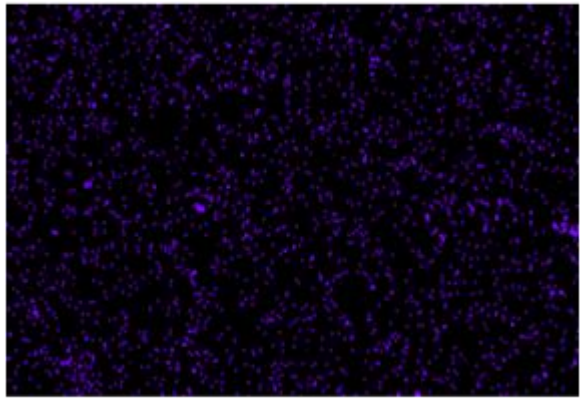
25µm

Na Kα1_2



25µm

Ti Kα1



25µm

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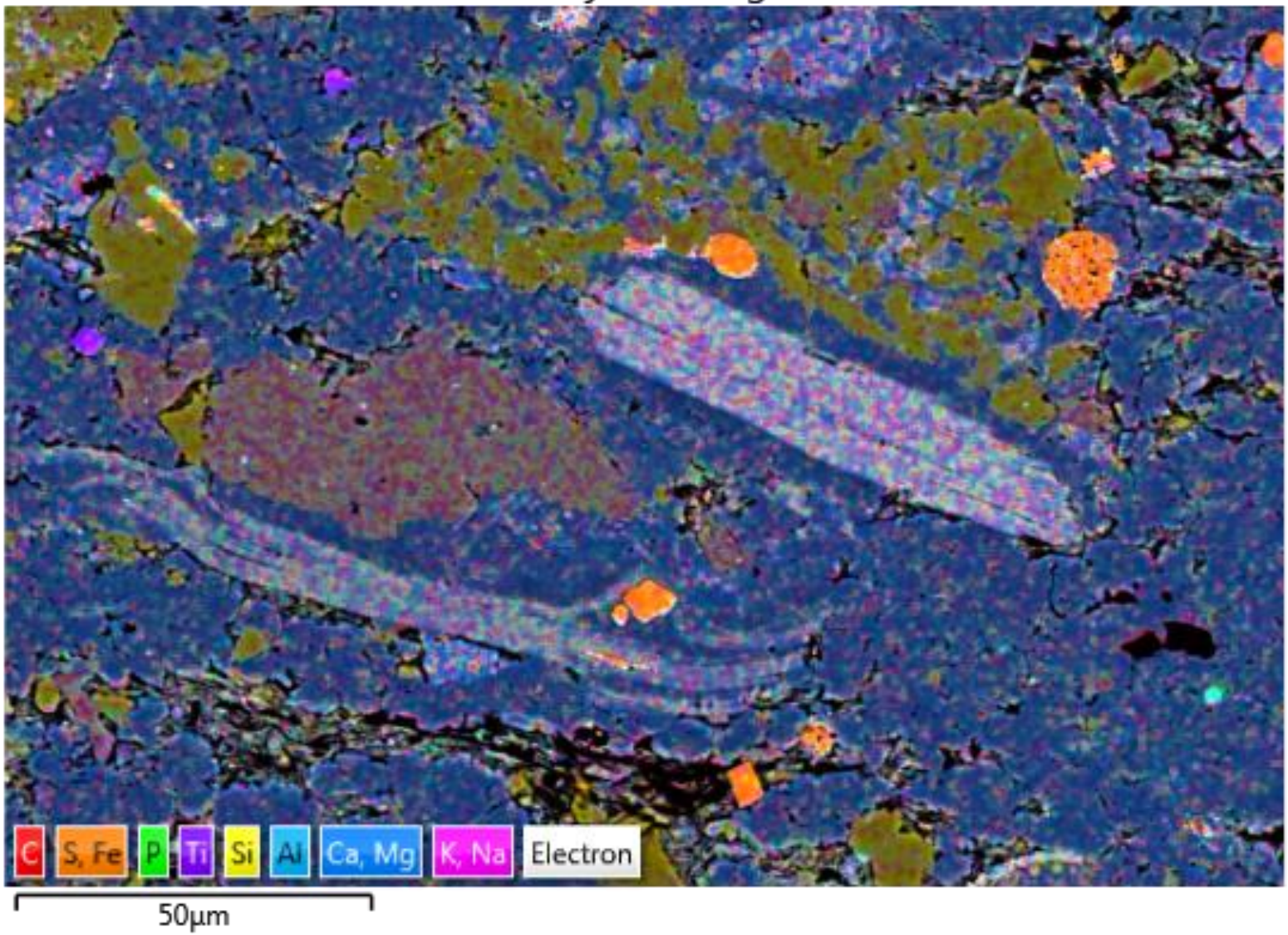
EDS Layered Image 3



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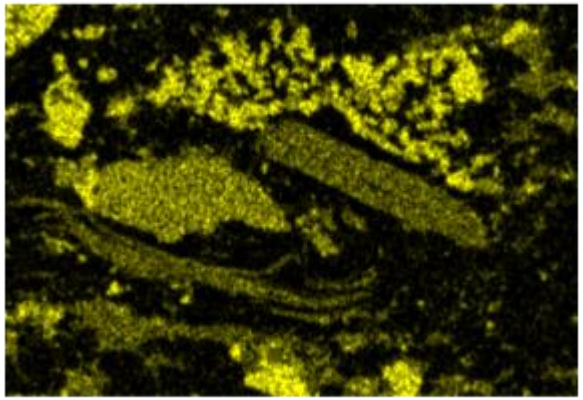
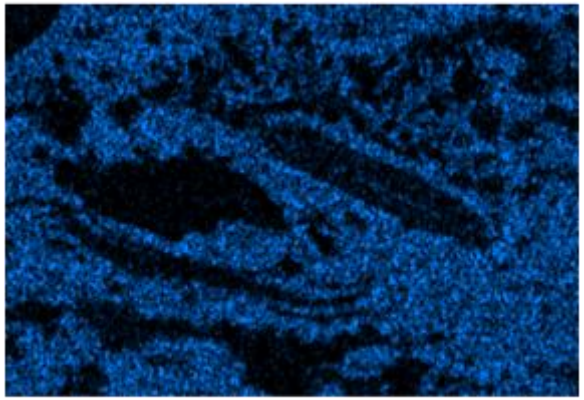
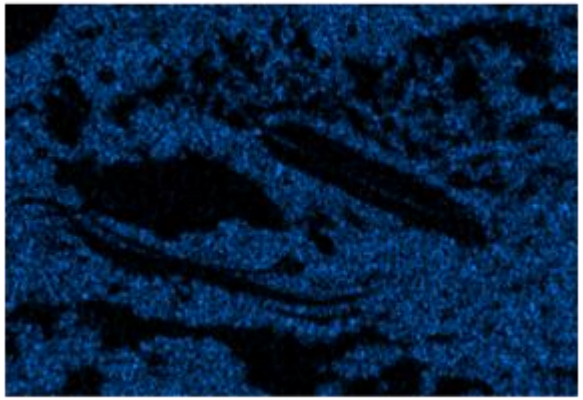
Si Kα1



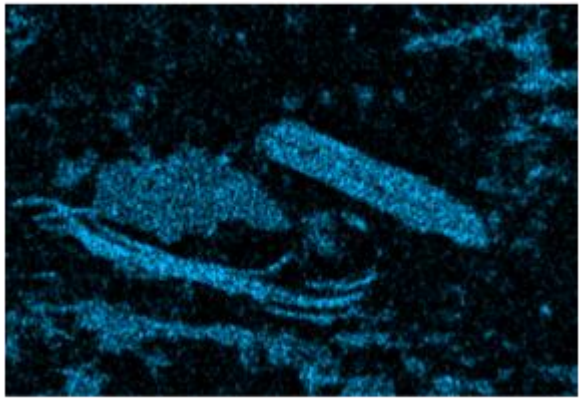
Mg Kα1_2



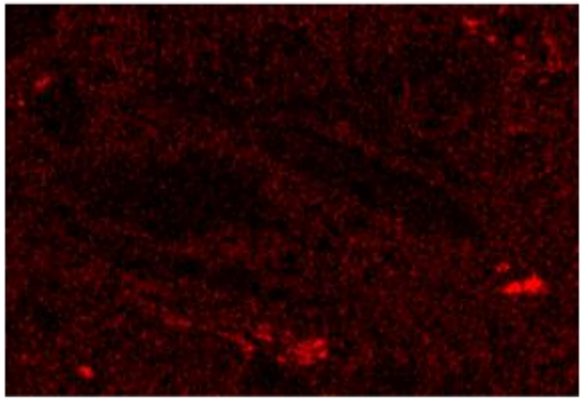
Ca Kα1



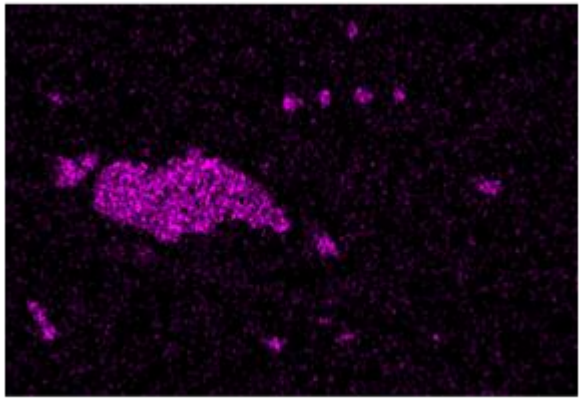
Al Kα1



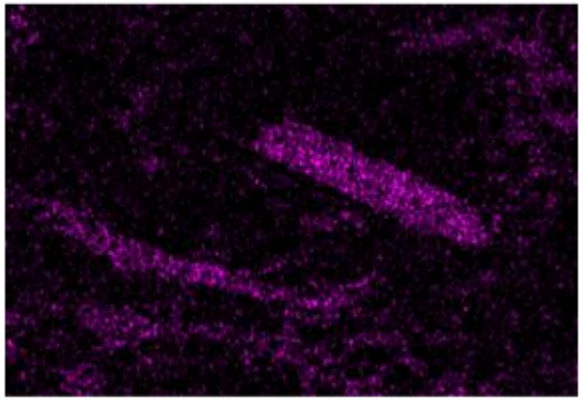
C Kα1_2



Na Kα1_2

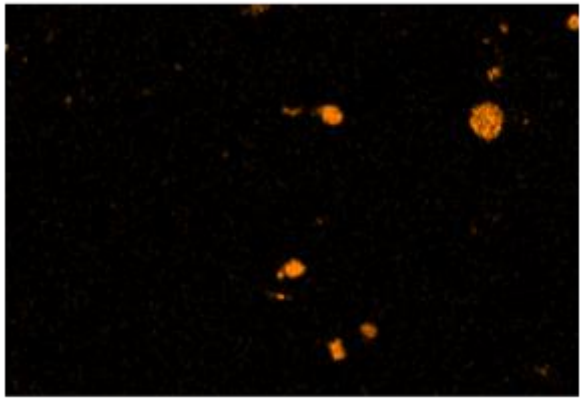


K Kα1



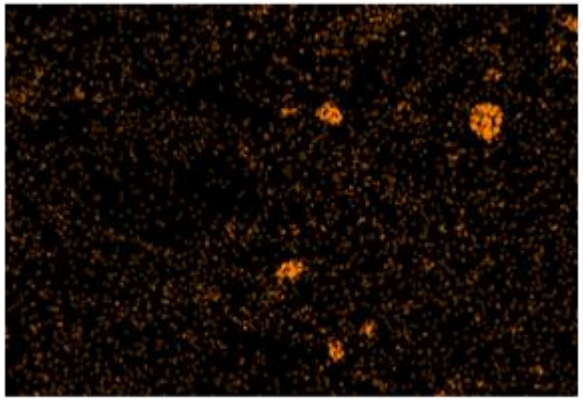
50µm

S Kα1



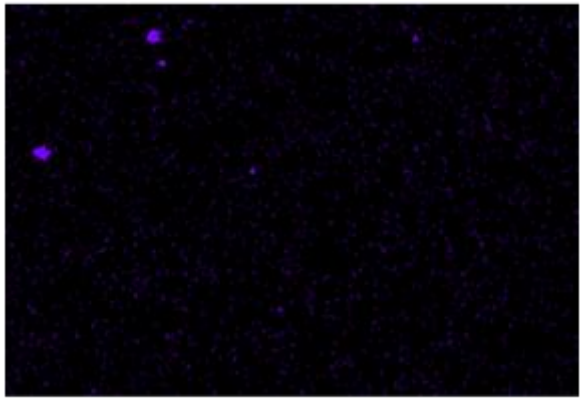
50µm

Fe Kα1



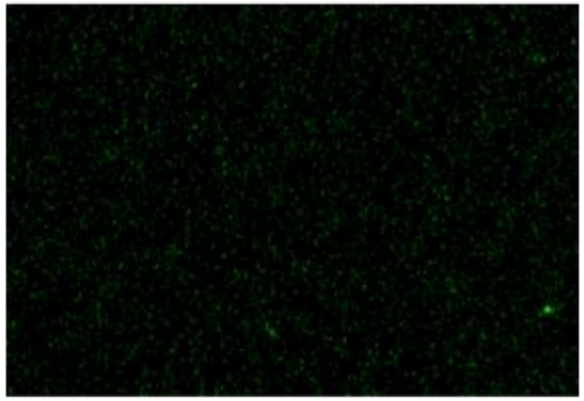
50µm

Ti Kα1



50µm

P Kα1



50µm

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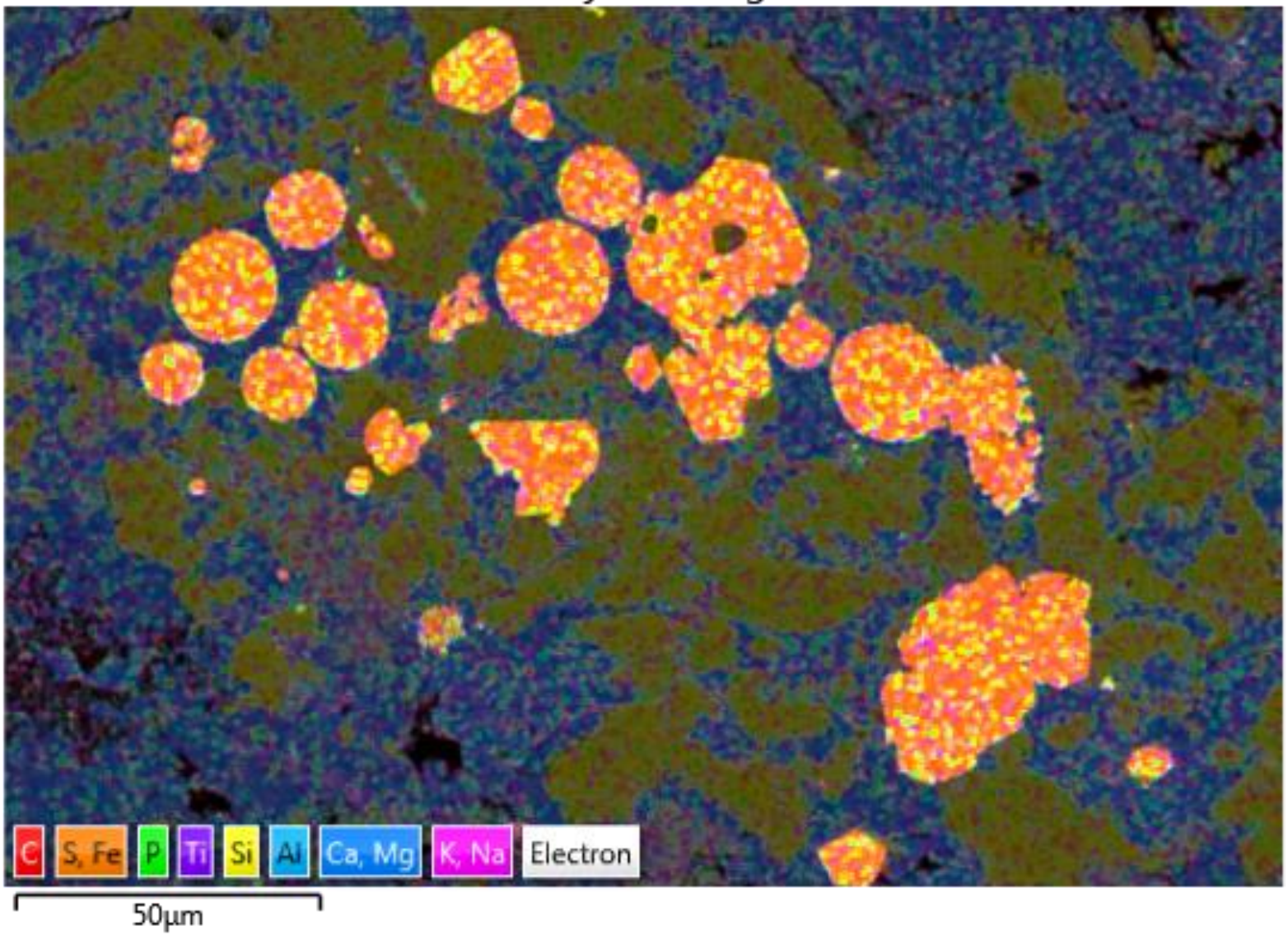
EDS Layered Image 4



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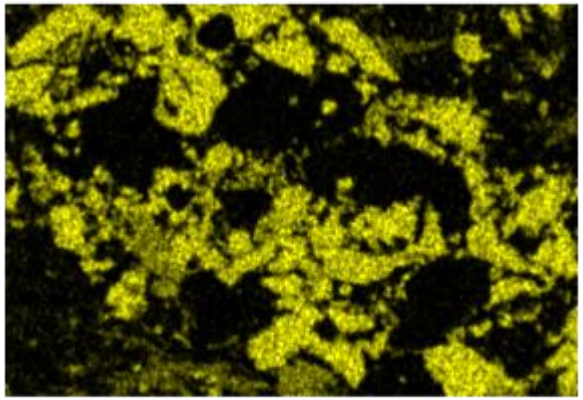
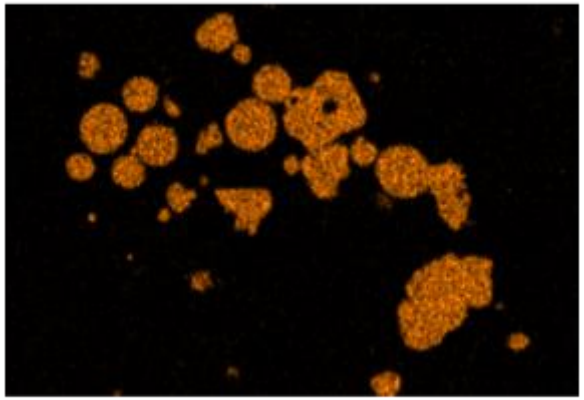
Si Kα1



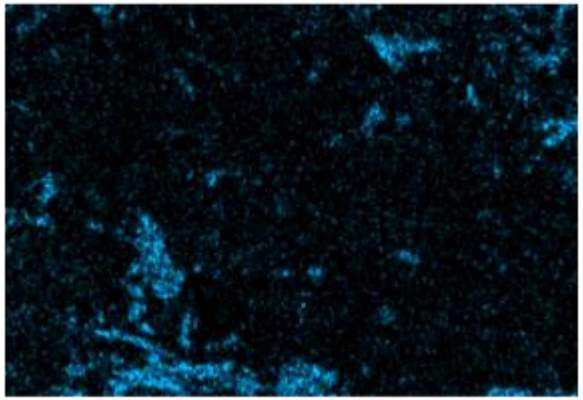
50µm

S Kα1



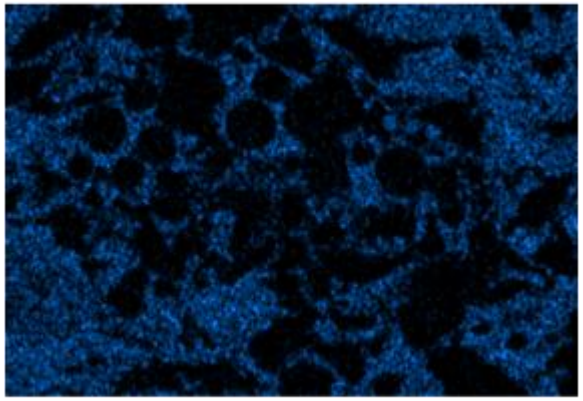
50µm

Al Kα1



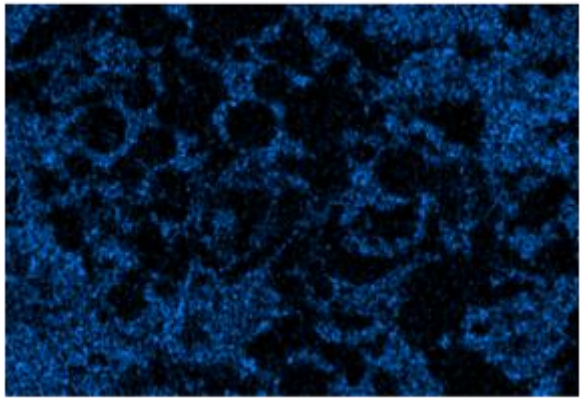
50µm

Ca Kα1



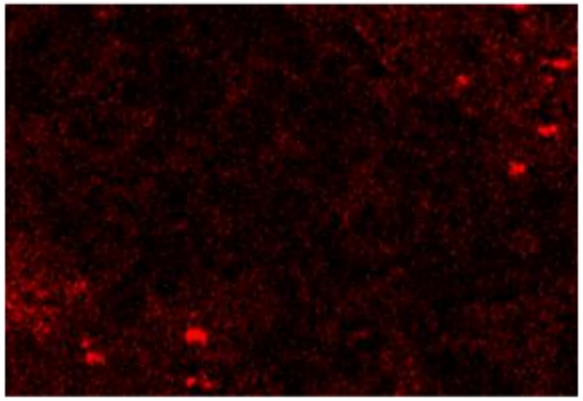
50µm

Mg Kα1_2



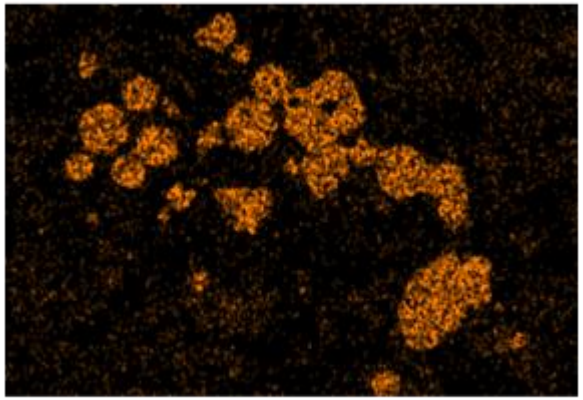
50µm

C Kα1_2



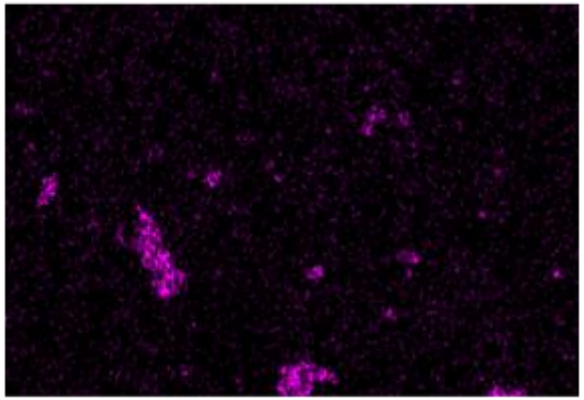
50µm

Fe Kα1



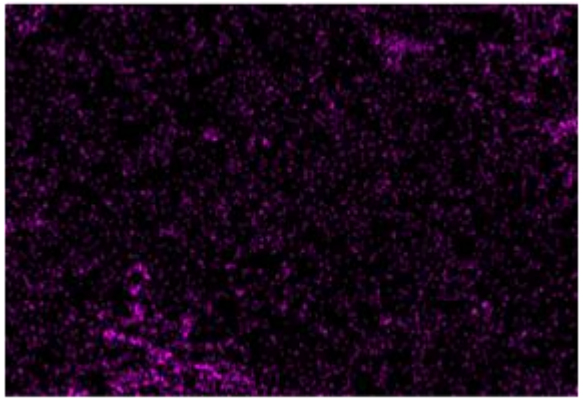
50µm

Na Kα1_2



50µm

K Kα1



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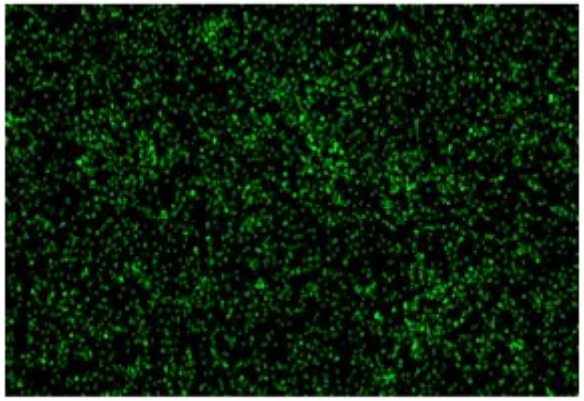
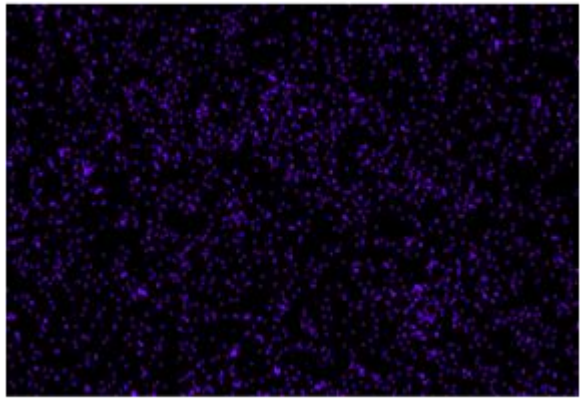
P Kα1



50µm

Ti Kα1



50µm

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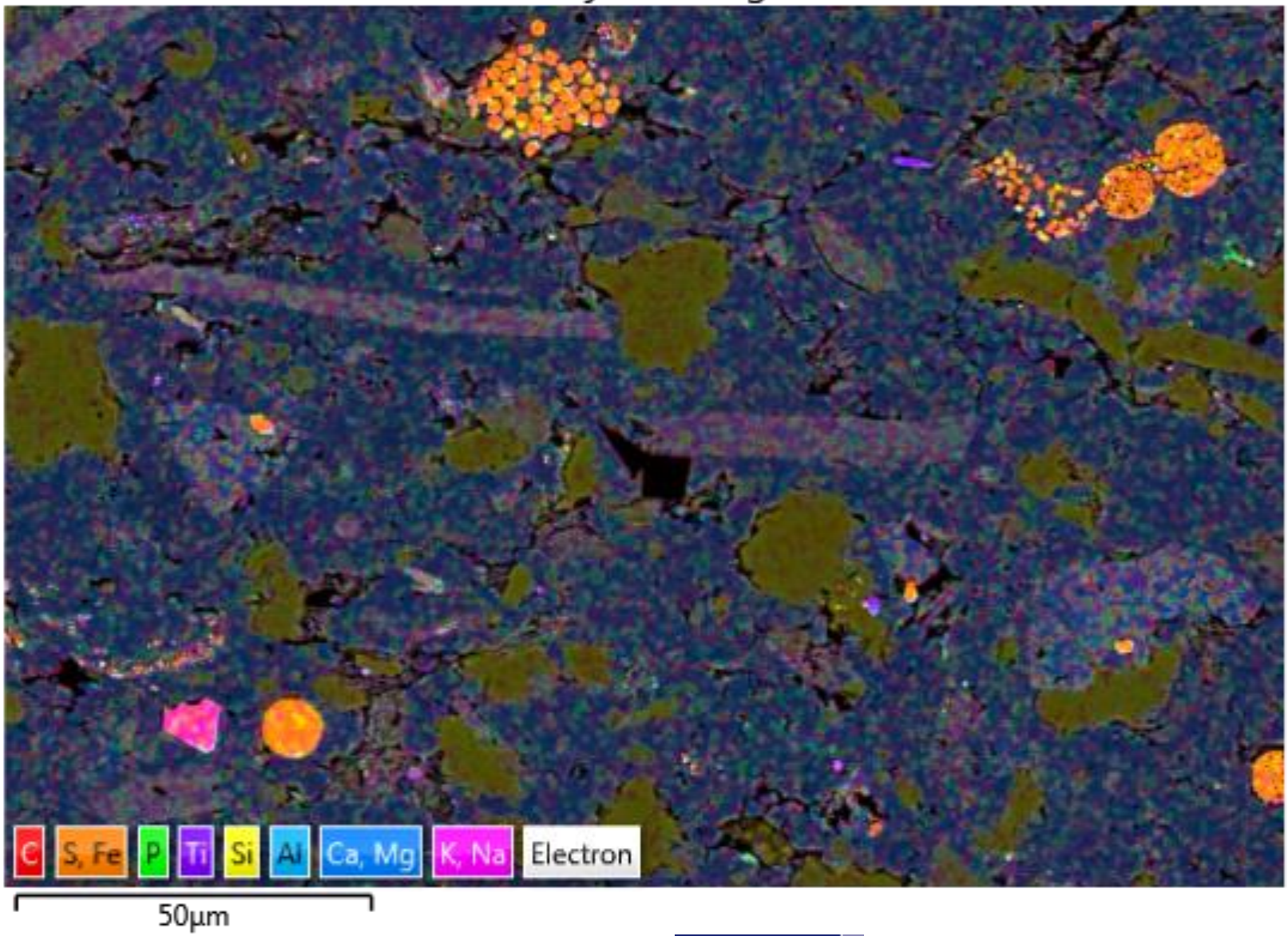
EDS Layered Image 5



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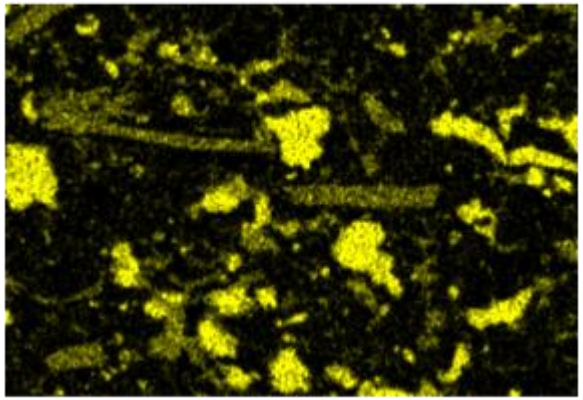
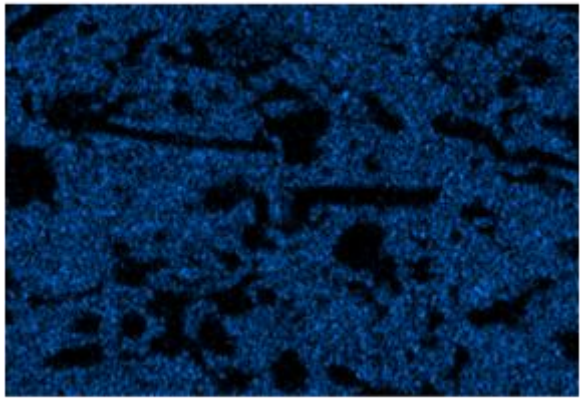
Si Kα1



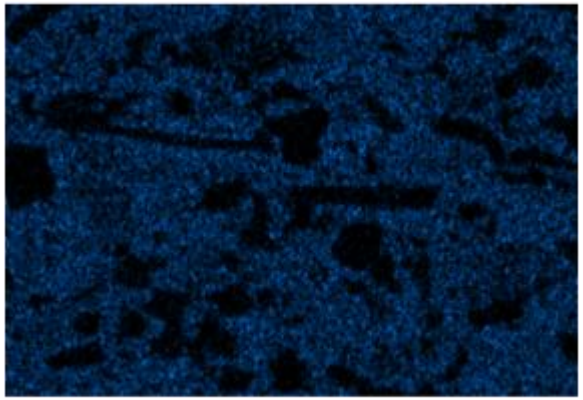
50µm

Ca Kα1



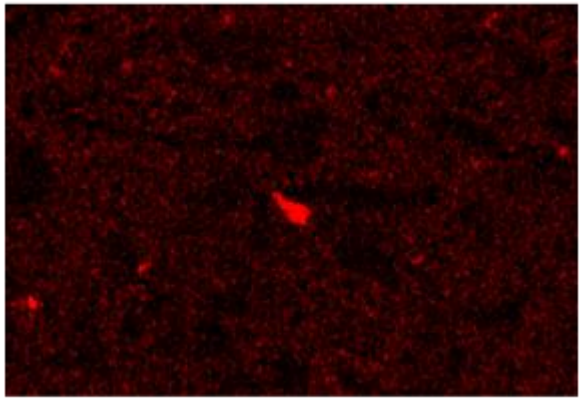
50µm

Mg Kα1_2



50µm

C Kα1_2



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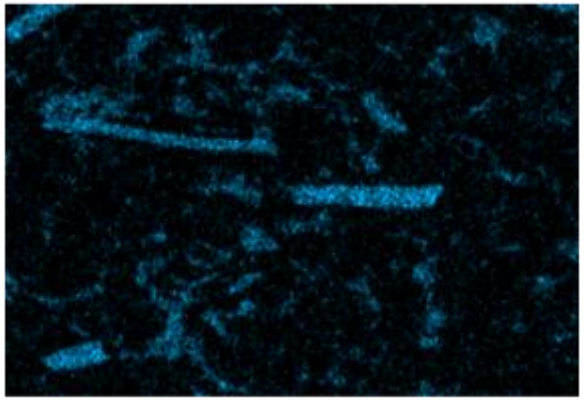
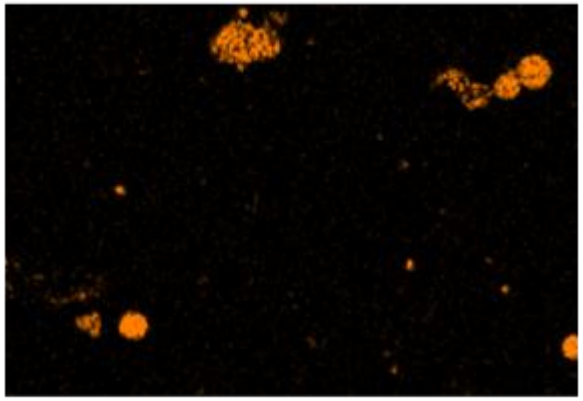
Al Kα1



50µm

S Kα1



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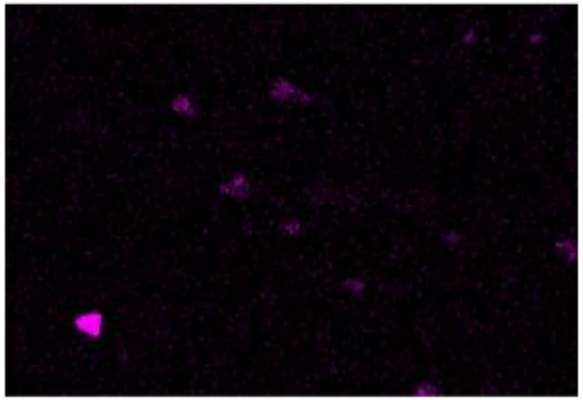
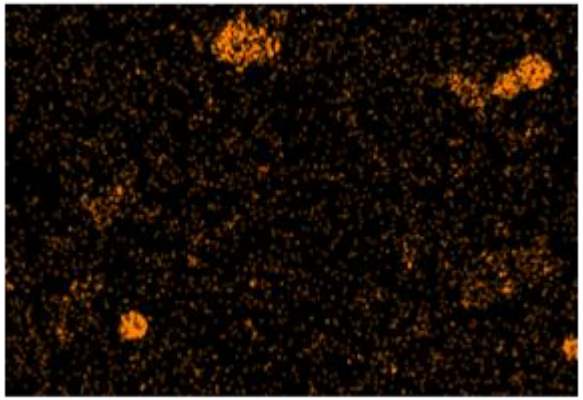
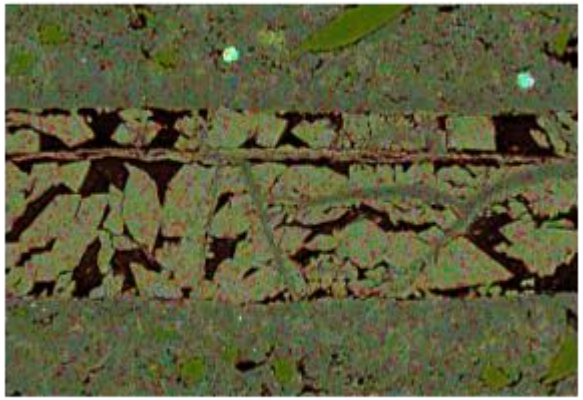
Na Kα1_2



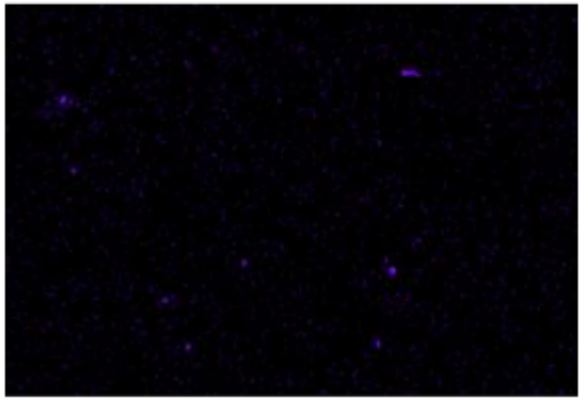
Fe Kα1



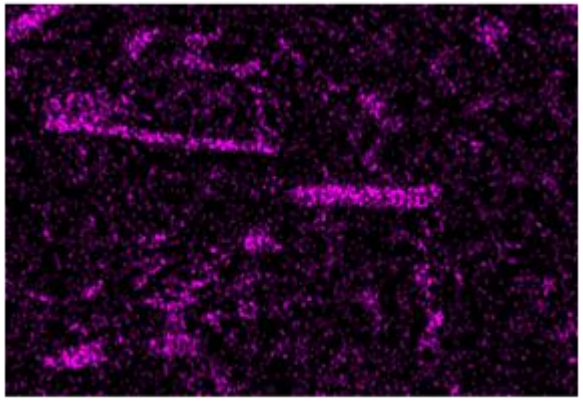
EDS Layered Image 6



Ti Kα1



K Kα1



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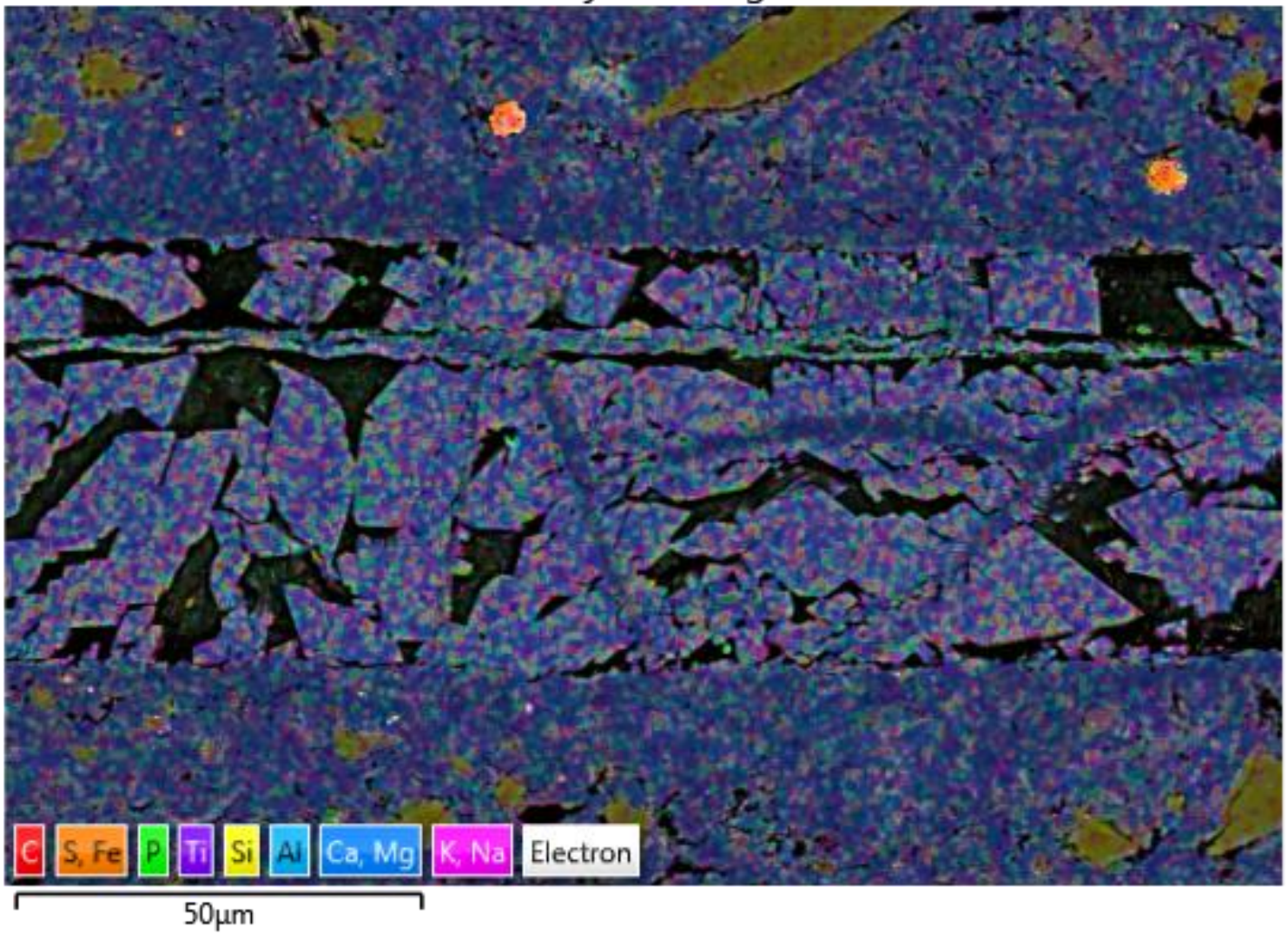
EDS Layered Image 6



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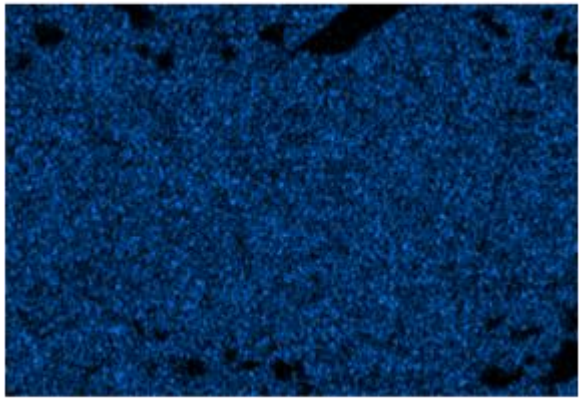
Ca Kα1



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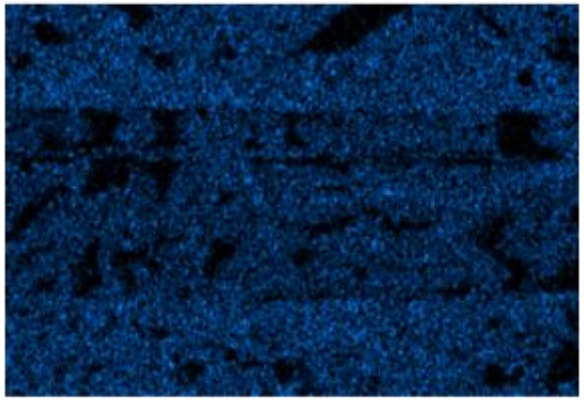
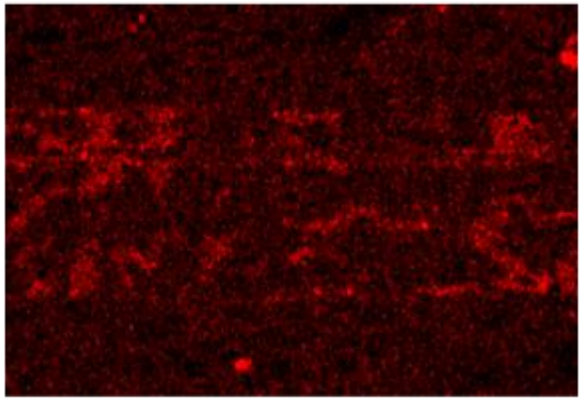
Mg Kα1_2



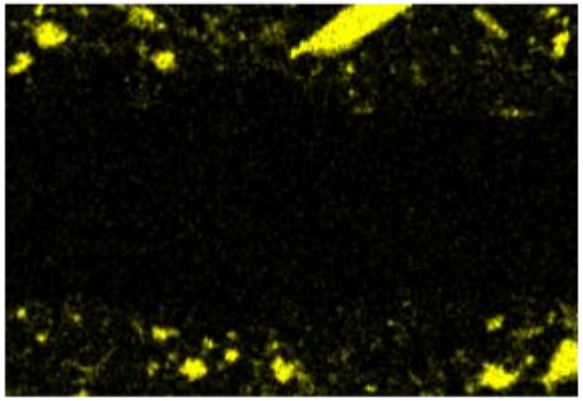
50µm

C Kα1_2



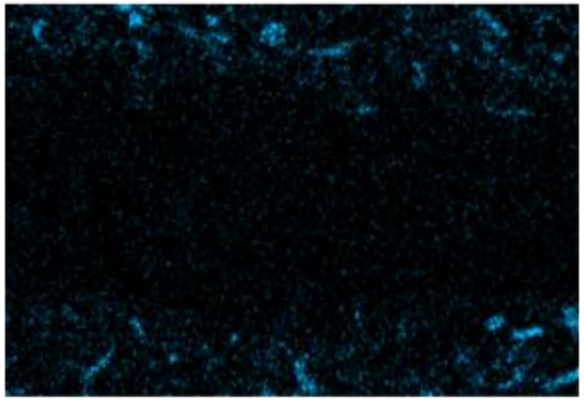
50µm

Si Kα1



50µm

Al Kα1



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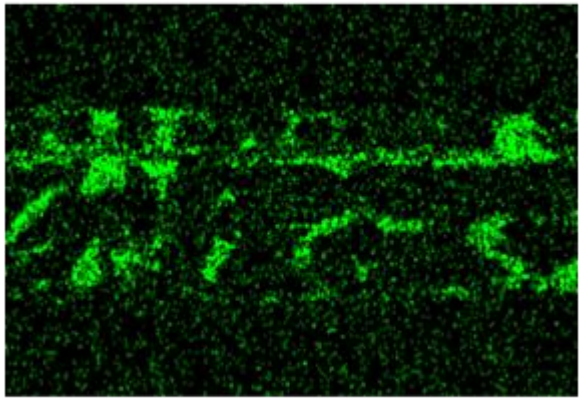
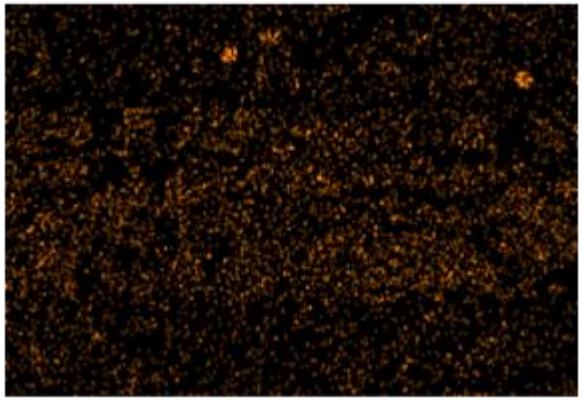
P Kα1



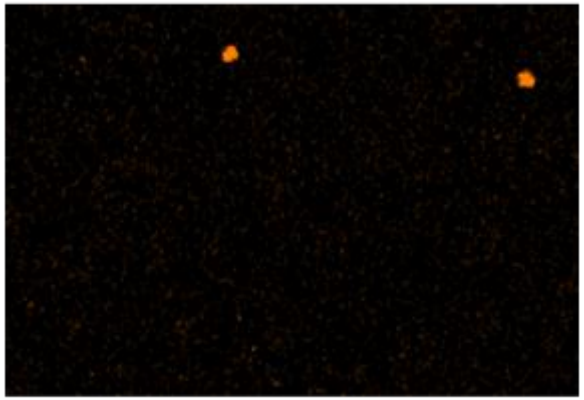
50µm

Fe Kα1



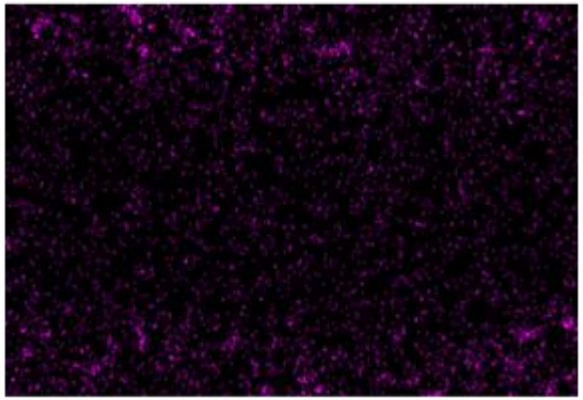
50µm

S Kα1



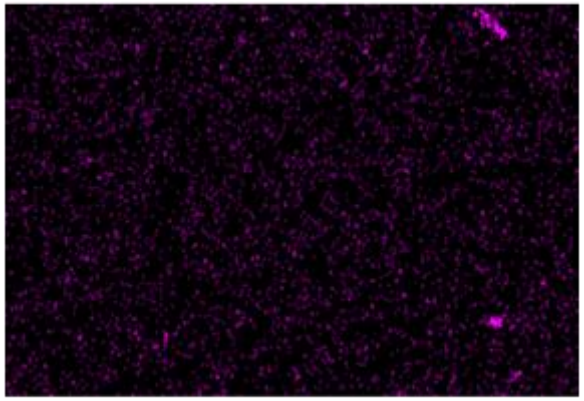
50µm

K Kα1



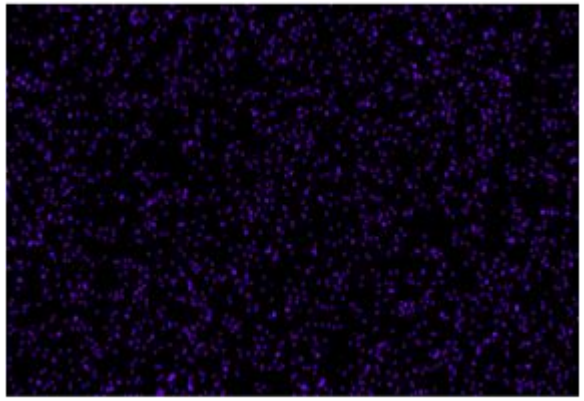
50µm

Na Kα1_2



50µm

Ti Kα1



50µm

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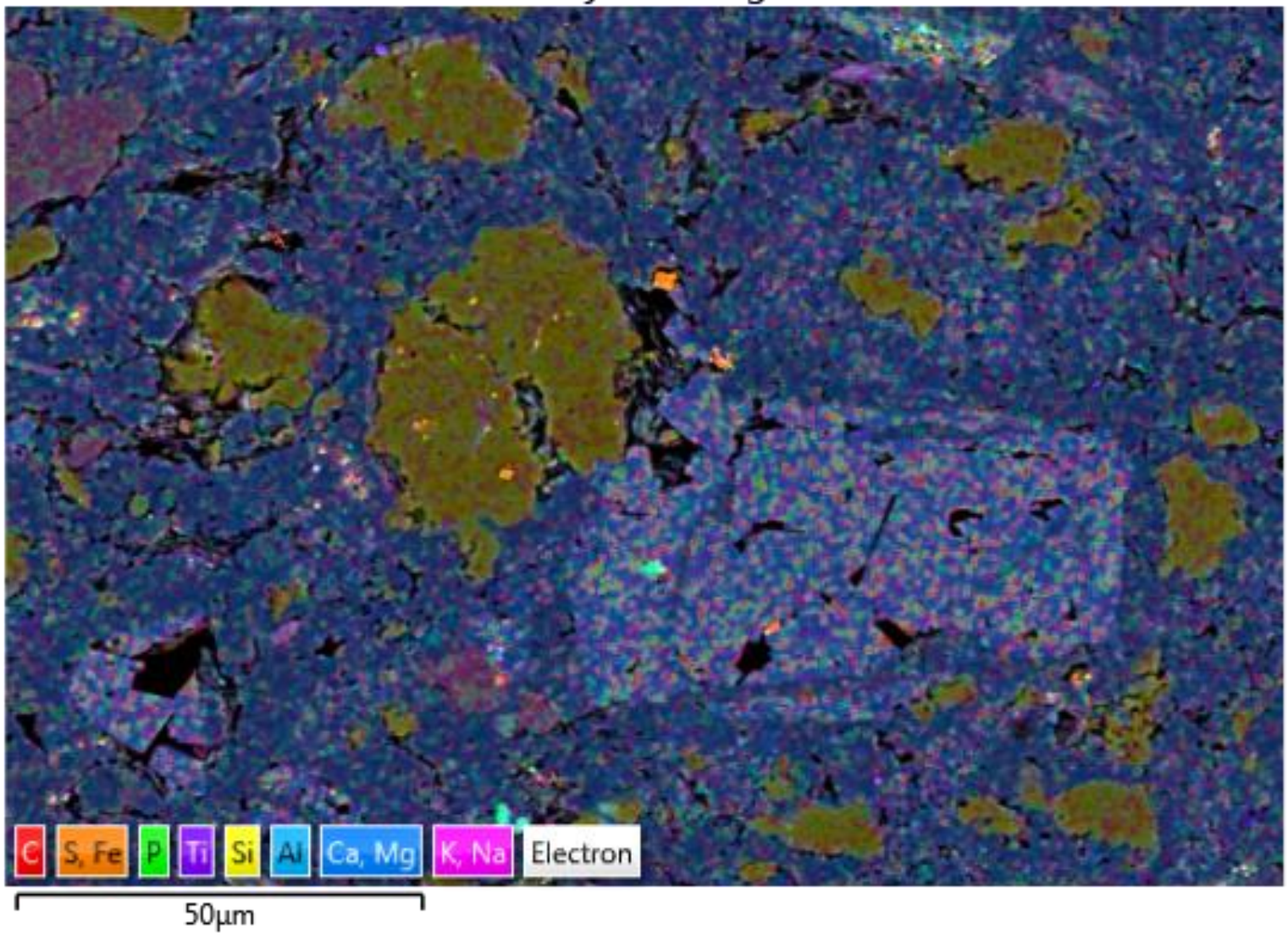

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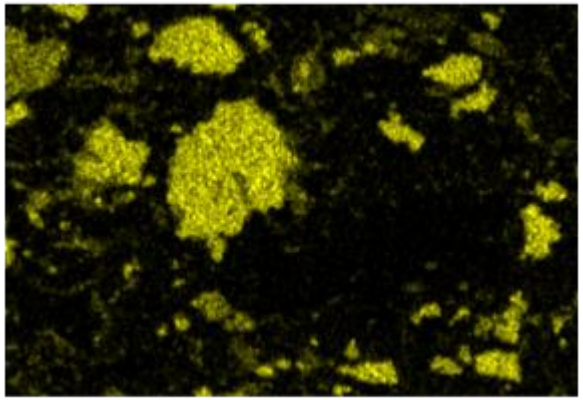
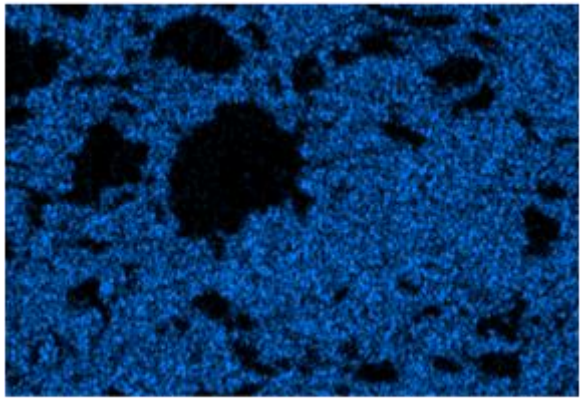
Si Kα1



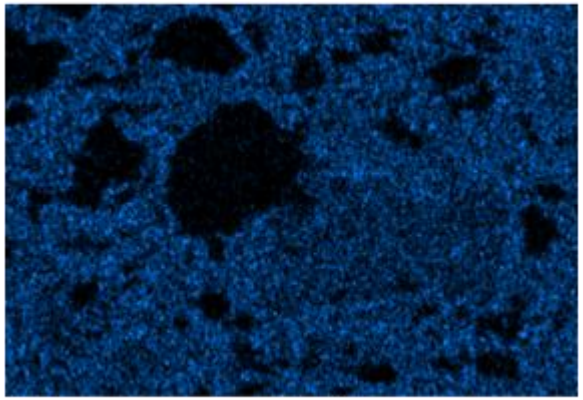
50µm

Ca Kα1



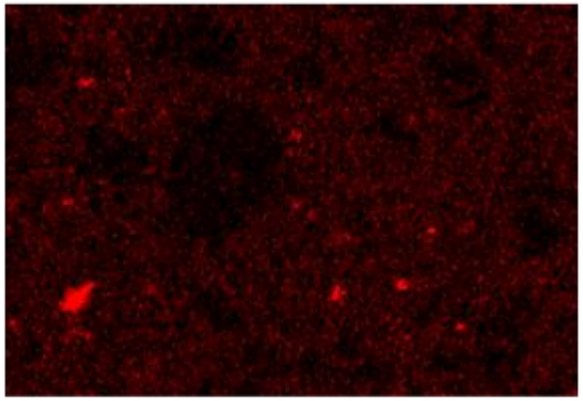
50µm

Mg Kα1_2



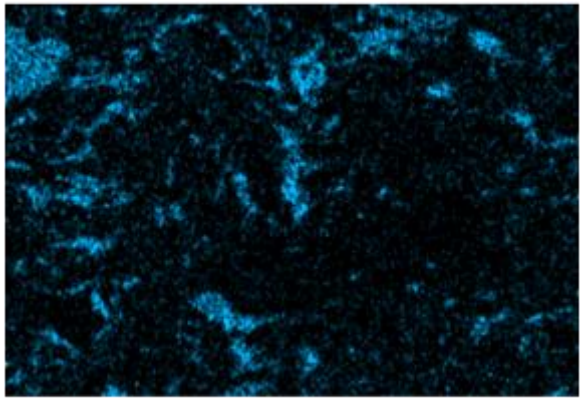
50µm

C Kα1_2



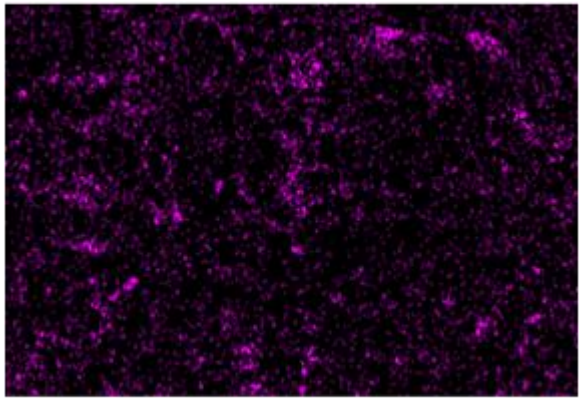
50µm

Al Kα1



50µm

K Kα1



50µm

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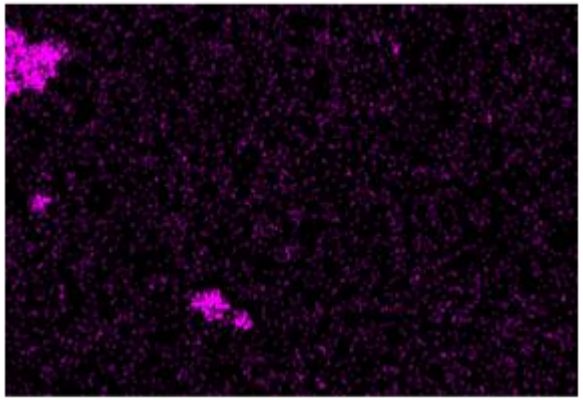
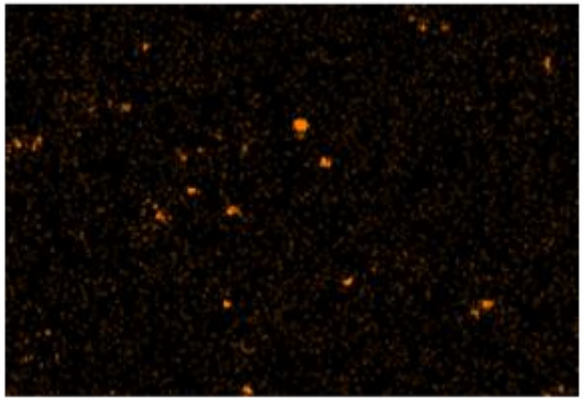
Na Kα1_2



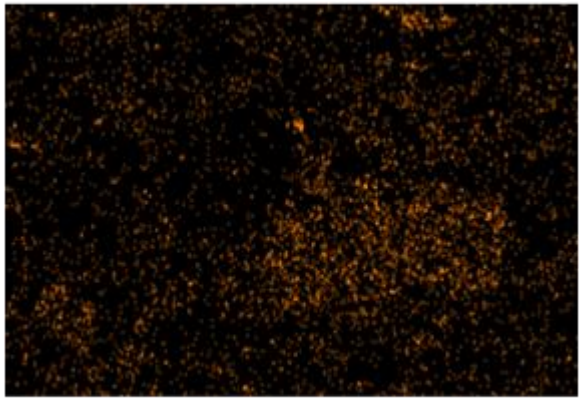
50µm

S Kα1



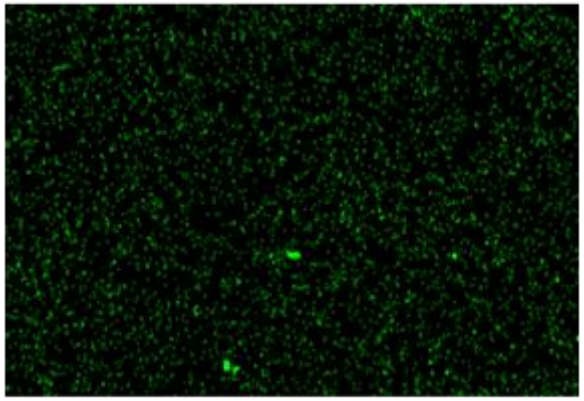
50µm

Fe Kα1



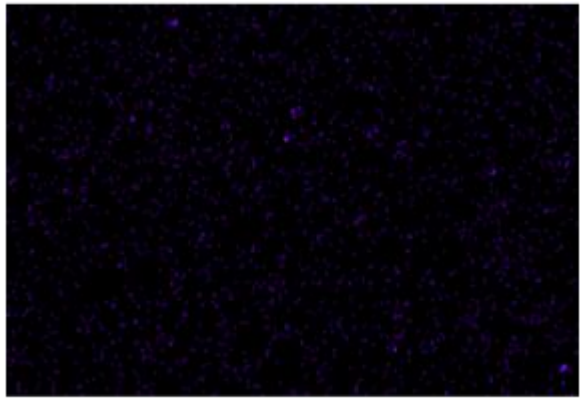
50µm

P Kα1



50µm

Ti Kα1



50µm

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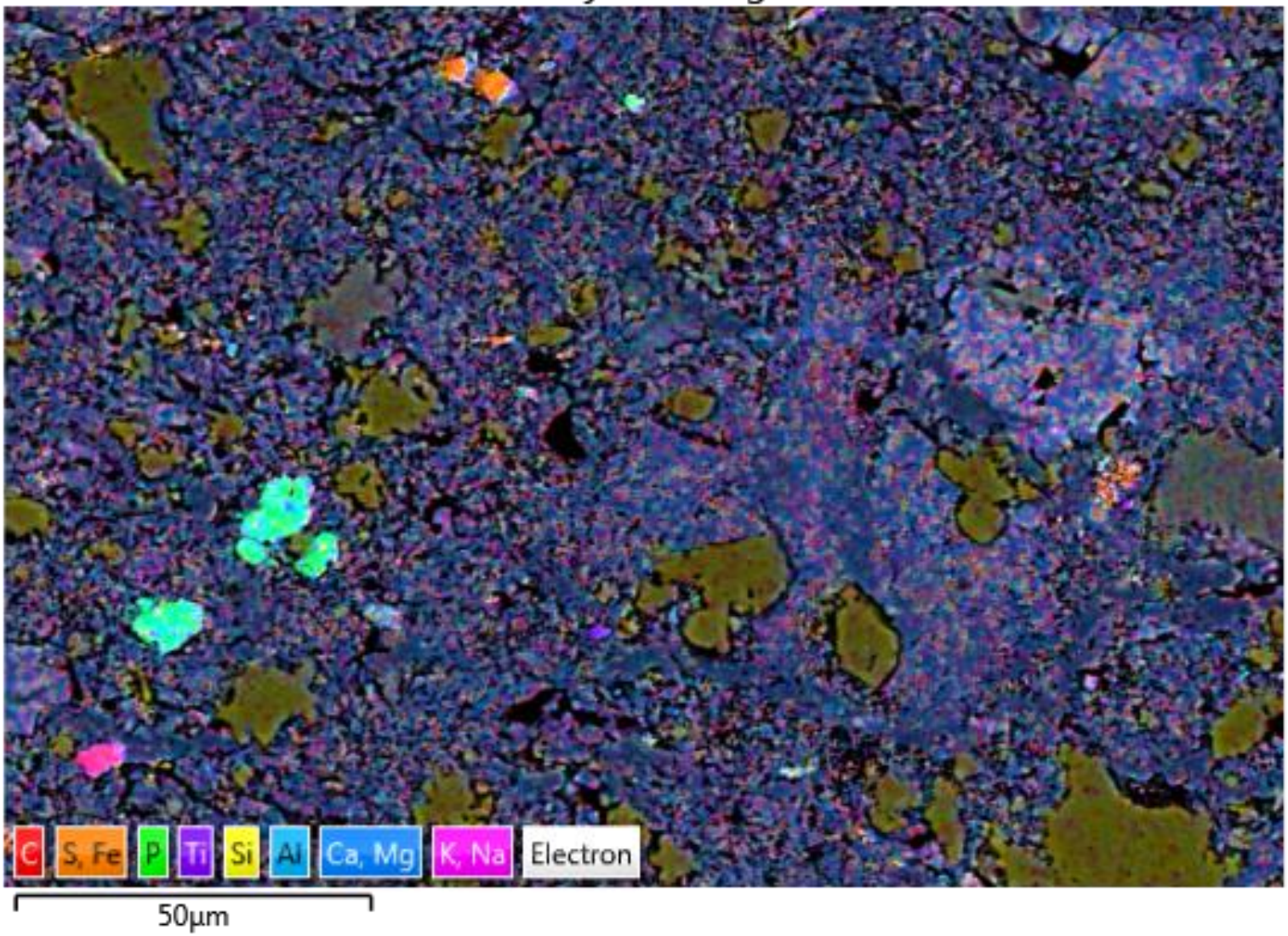
EDS Layered Image 2



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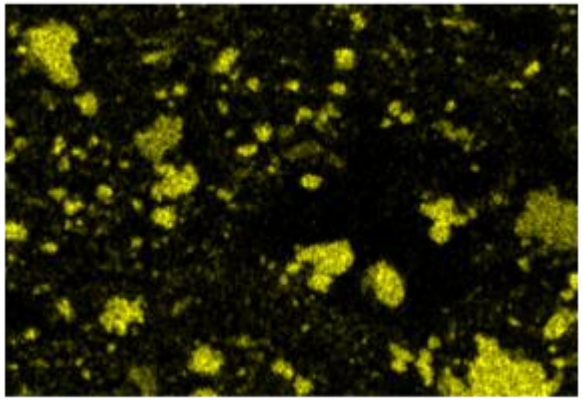
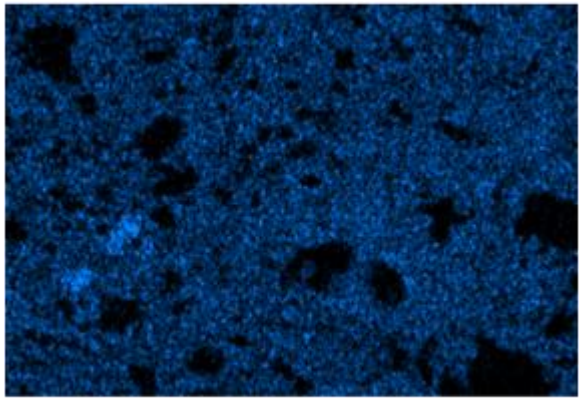
Si Kα1



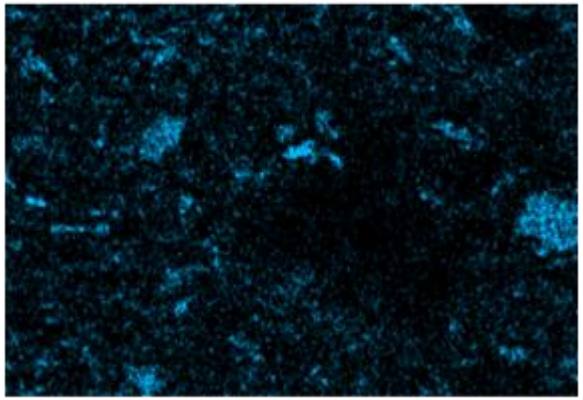
50µm

Ca Kα1



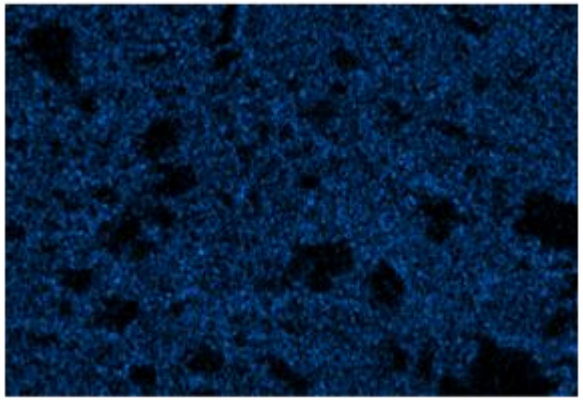
50µm

Al Kα1



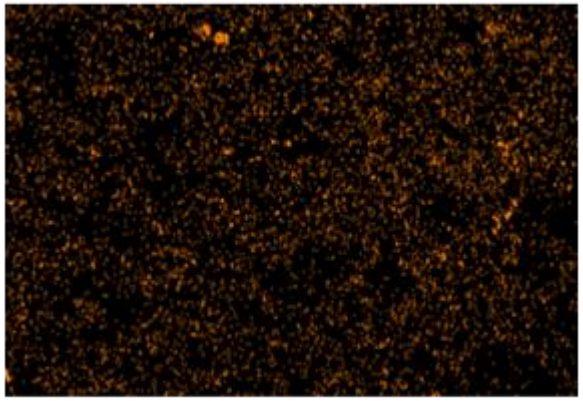
50µm

Mg Kα1_2



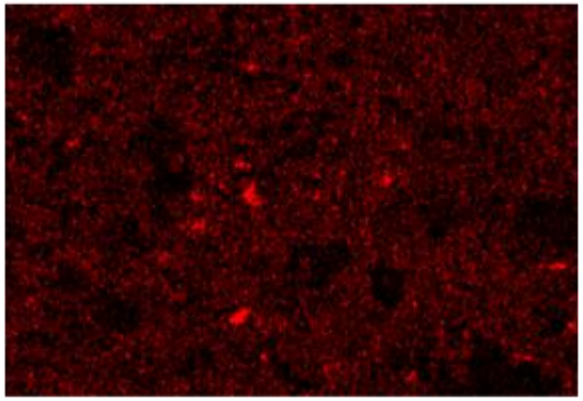
50µm

Fe Kα1



50µm

C Kα1_2



50µm

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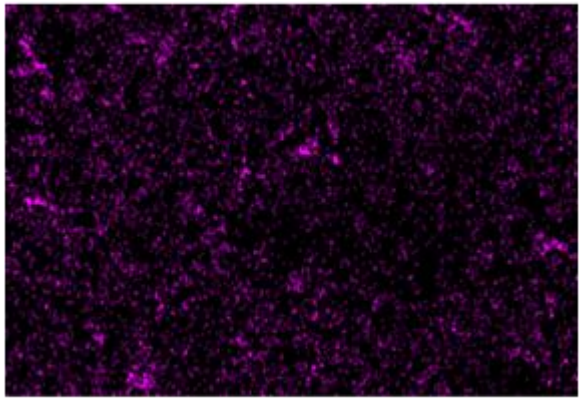
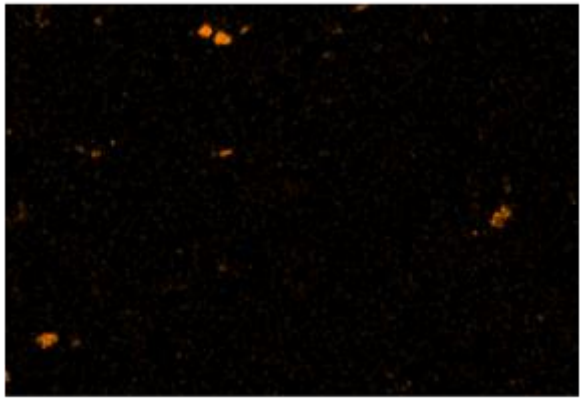
K Kα1



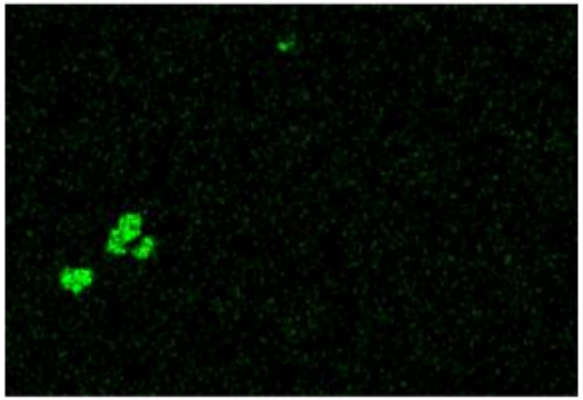
50µm

S Kα1



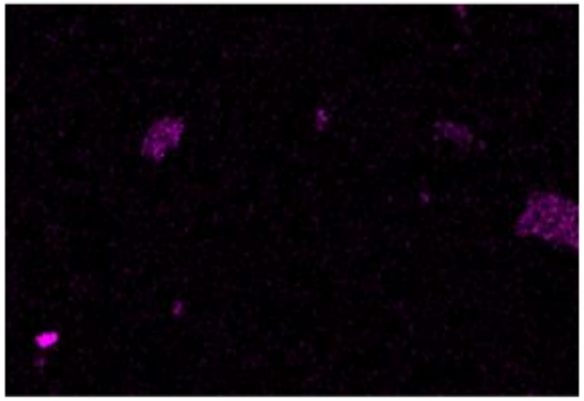
50µm

P Kα1



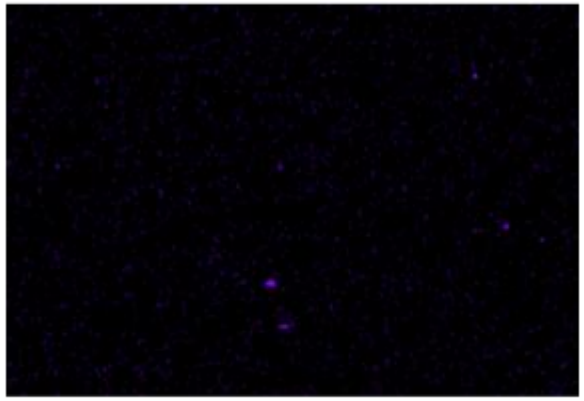
50µm

Na Kα1_2



50µm

Ti Kα1



50µm

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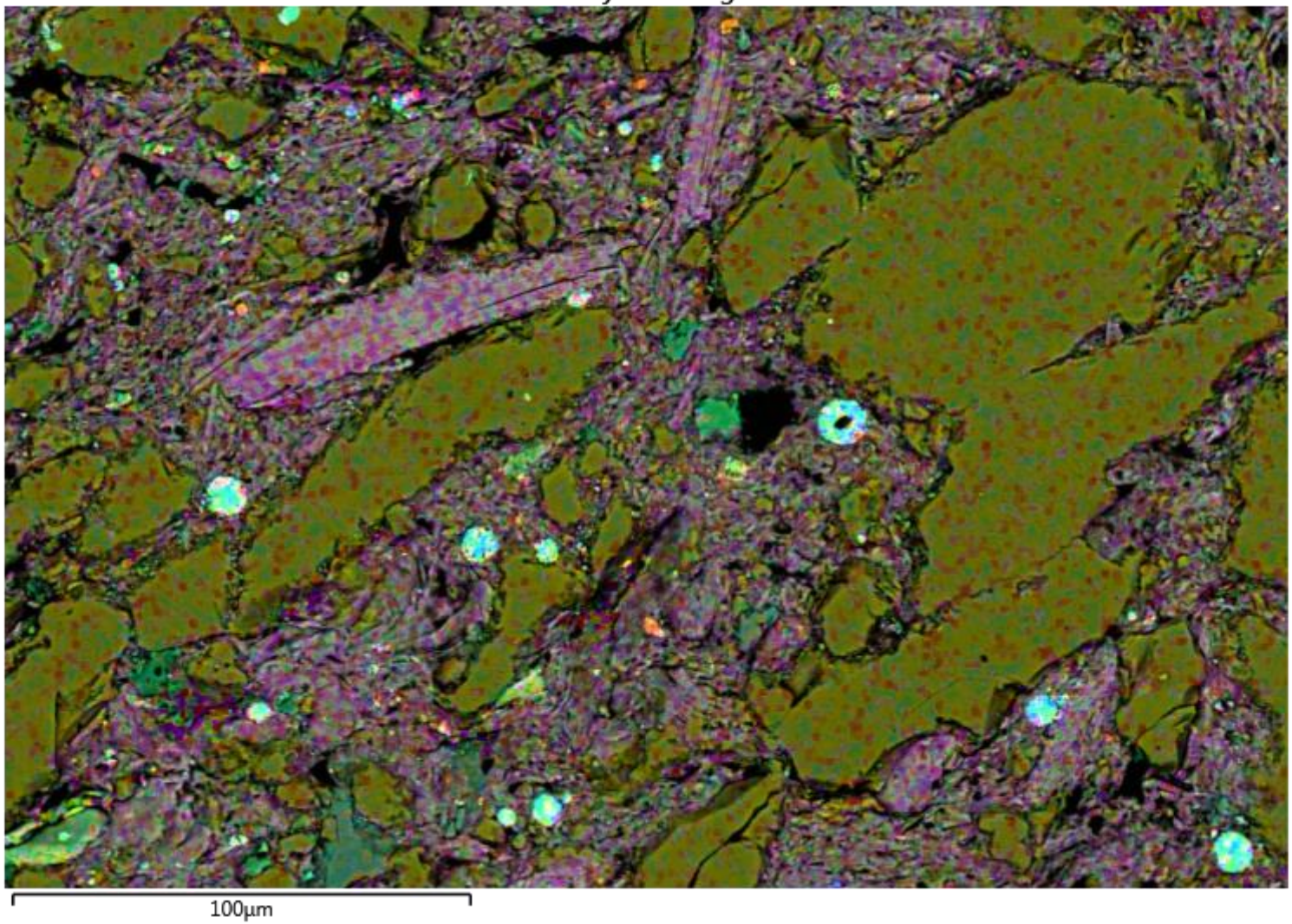
EDS Layered Image 2



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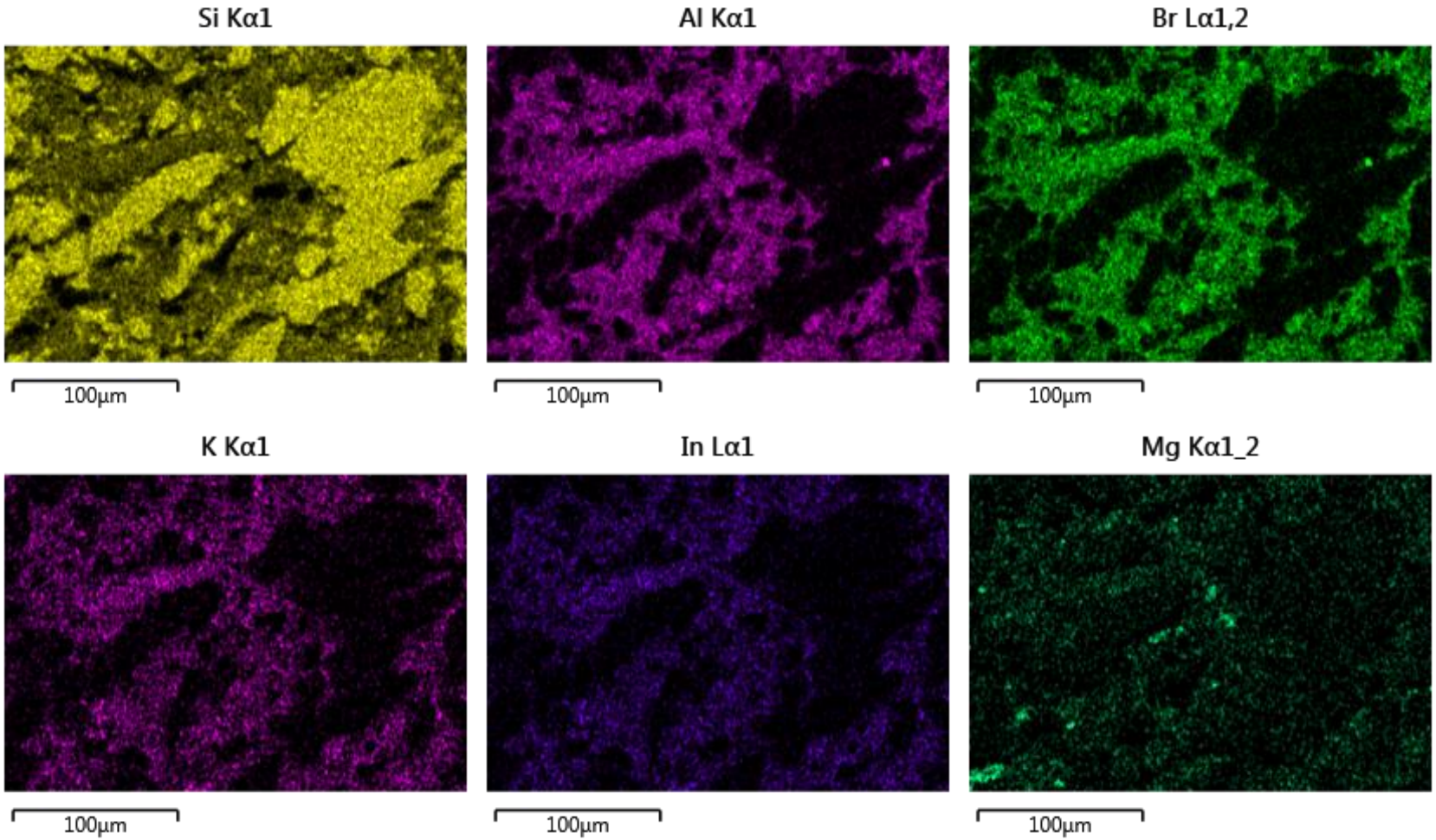
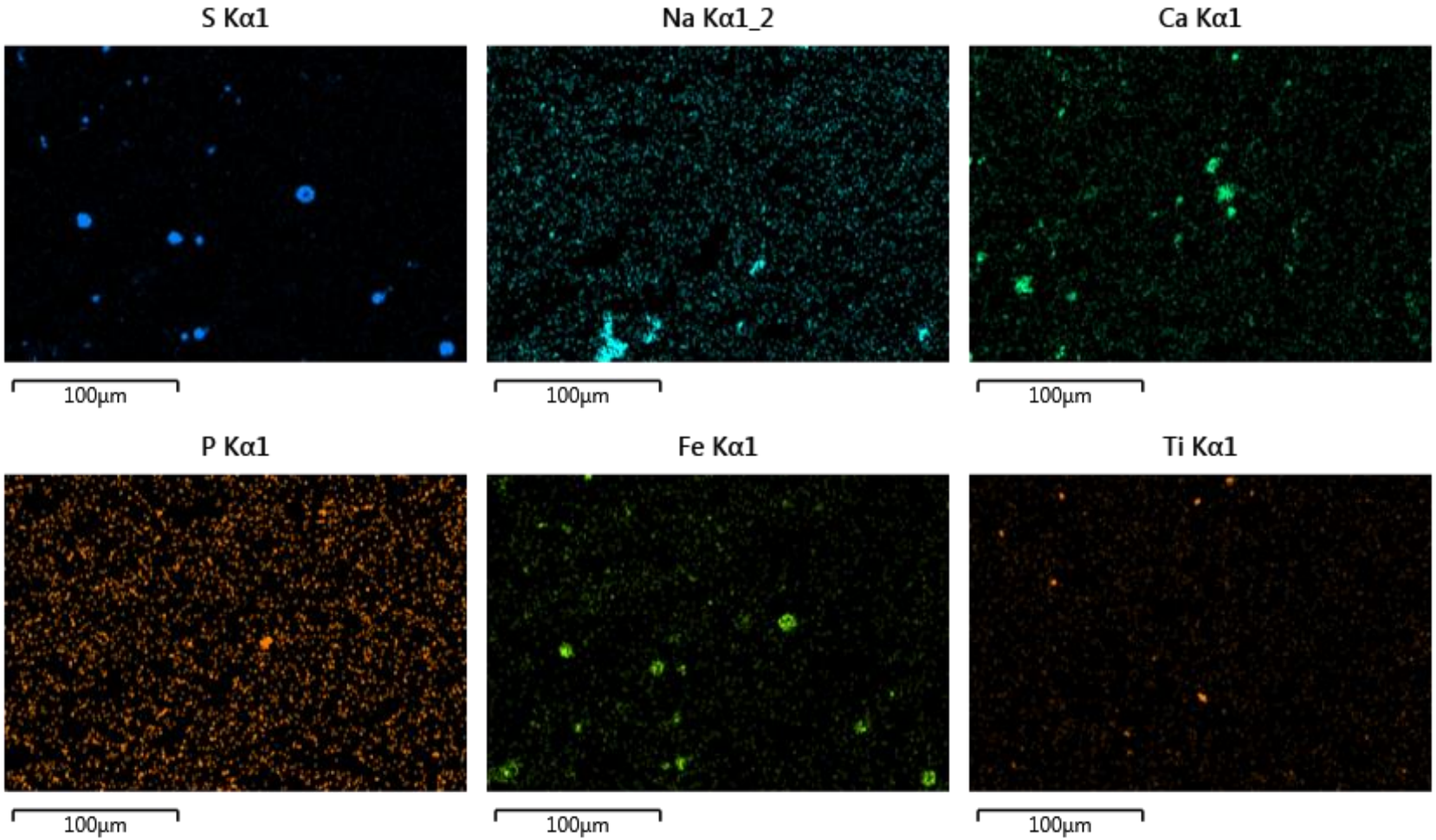

Si Kα1
100µm
Al Kα1
100µm
Br Lα1,2
100µm
K Kα1
100µm
In Lα1
100µm
Mg Kα1_2
100µm



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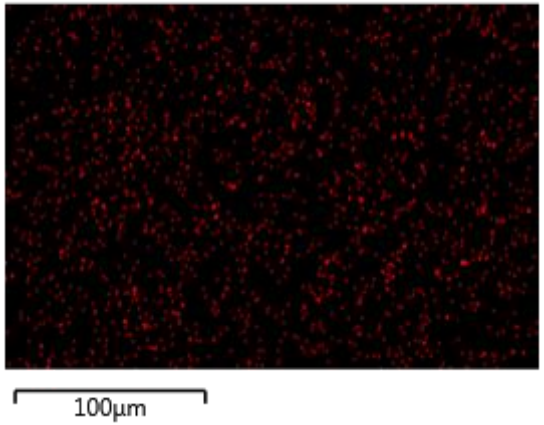
Mn Kα1



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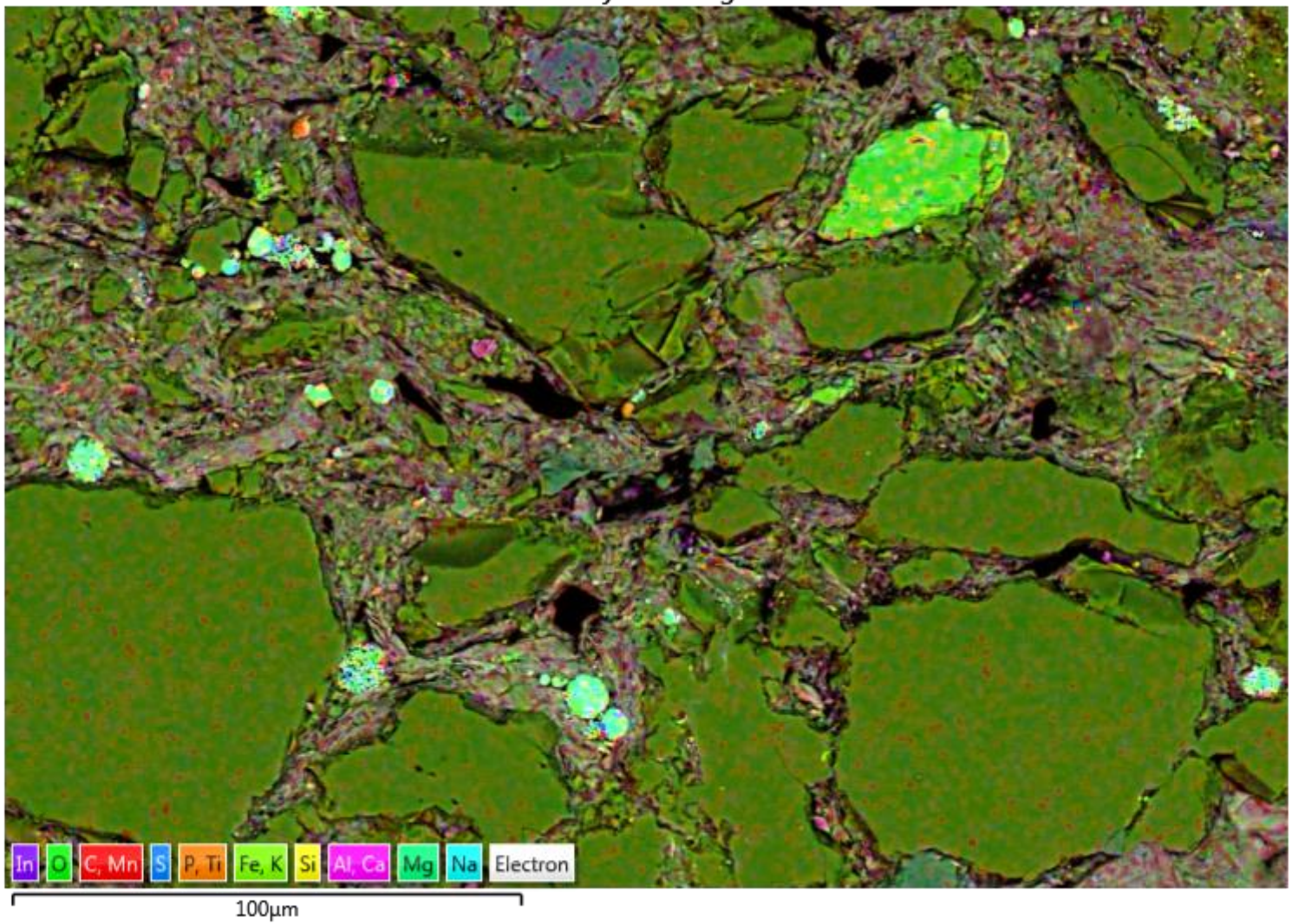

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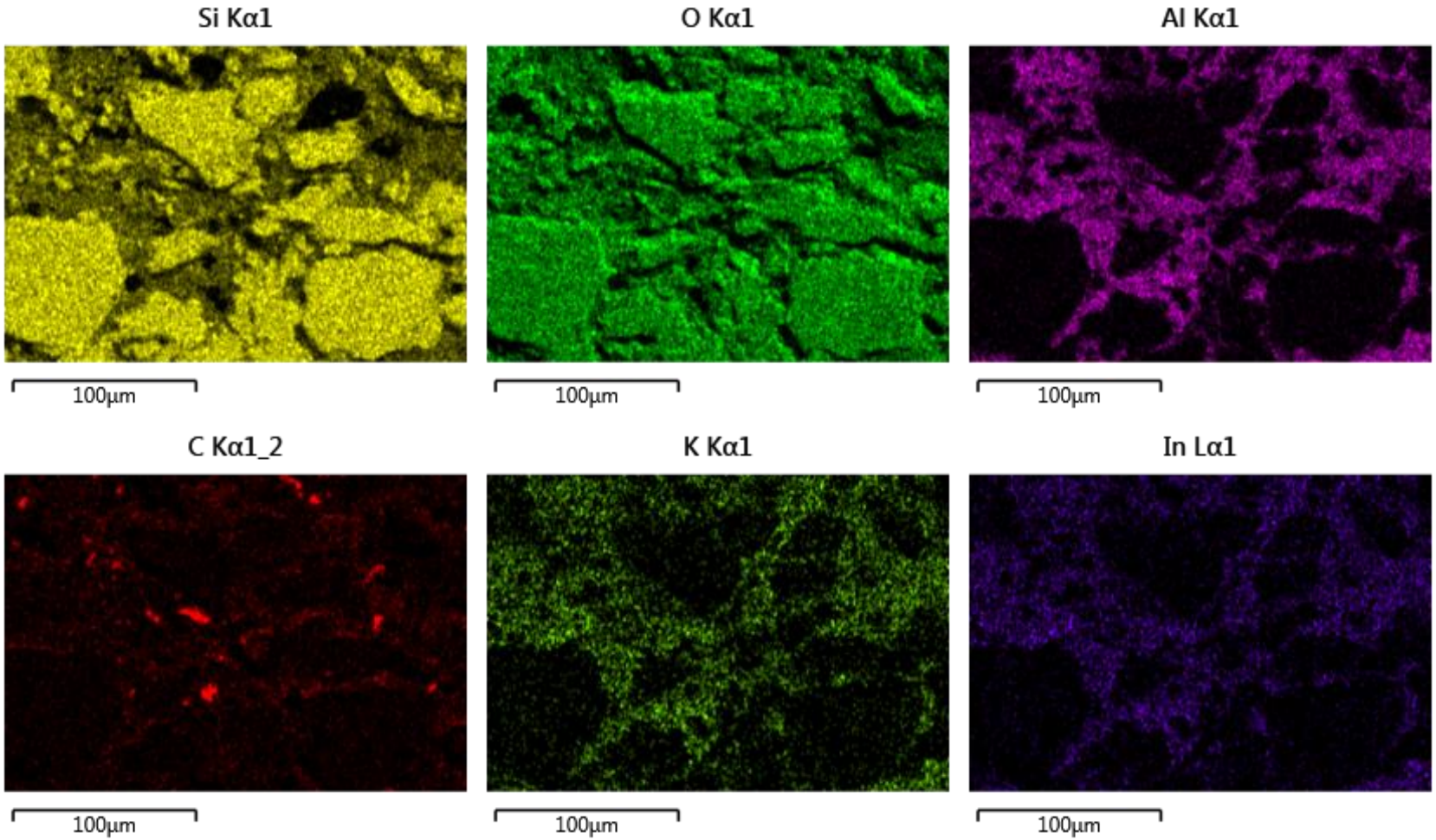

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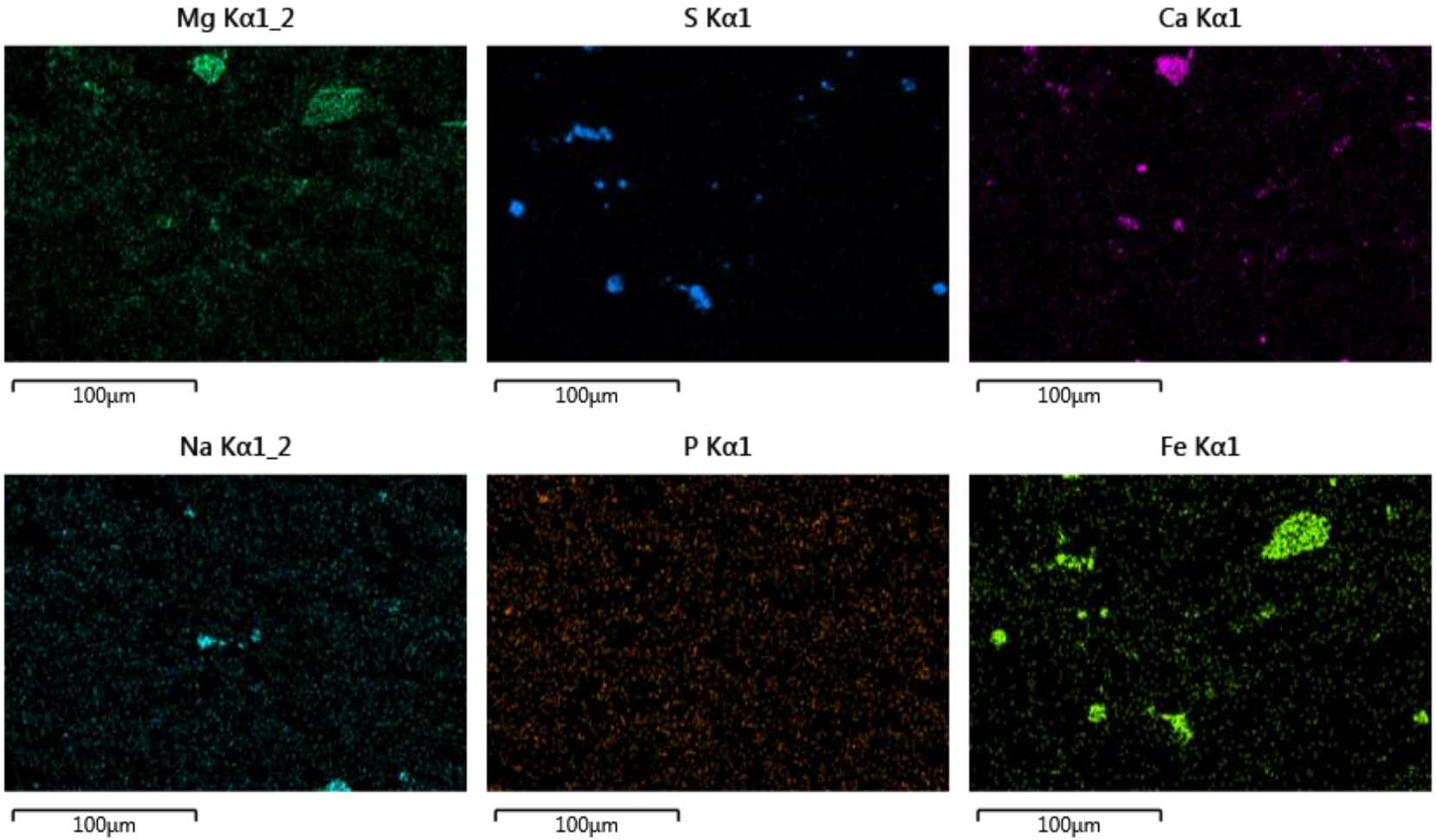
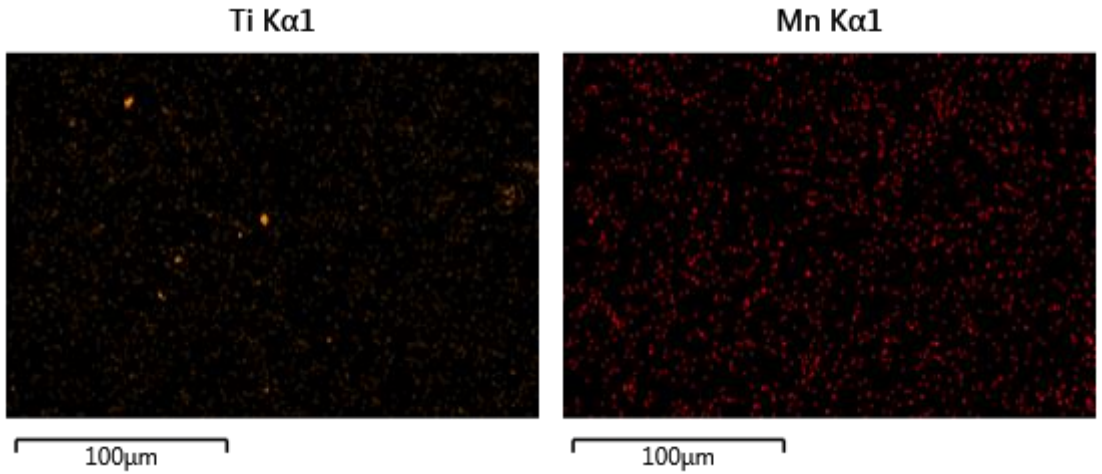
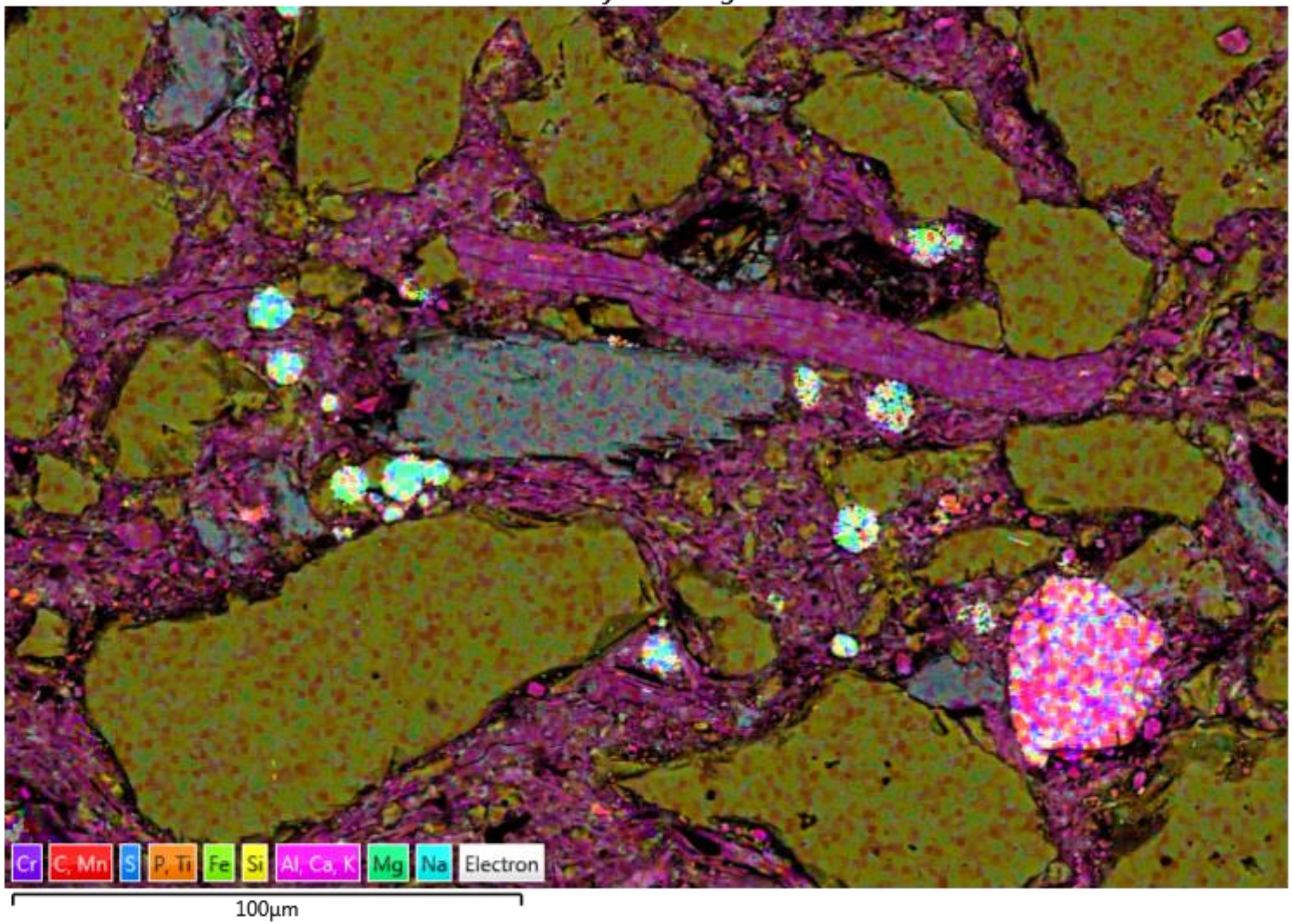

Mg Kα1_2
S Kα1
Ca Kα1
100µm
100µm
100µm
Na Kα1_2
P Kα1
Fe Kα1
100µm
100µm
100µm


Ti Kα1
Mn Kα1
100µm
100µm

EDS Layered Image 4



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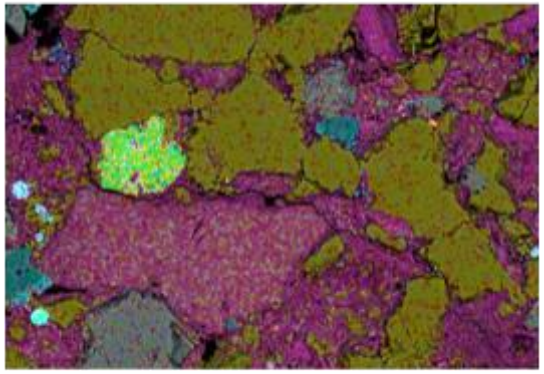
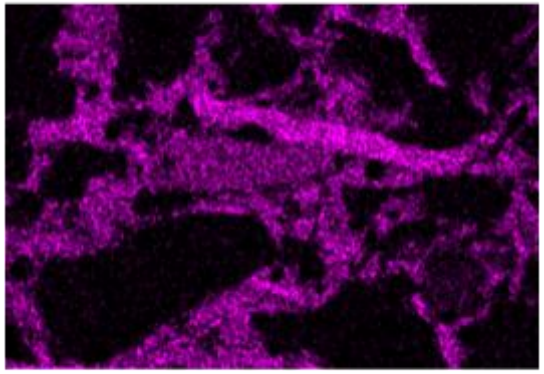
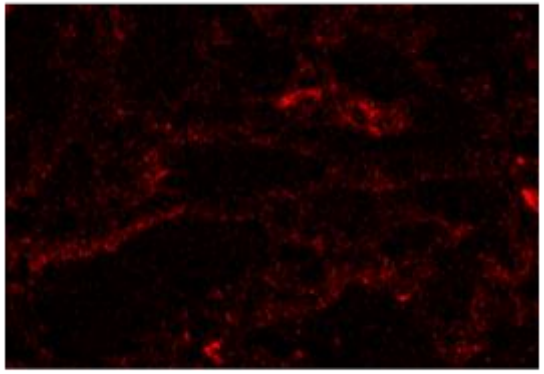
EDS Layered Image 5



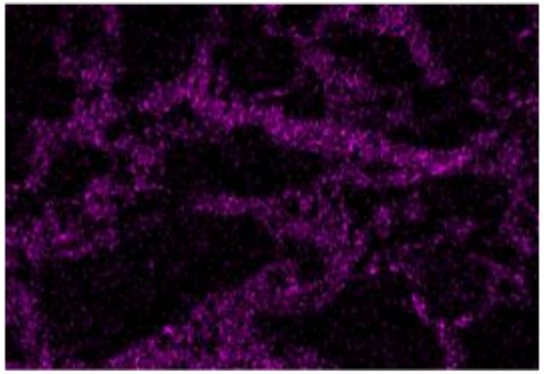
Al Kα1



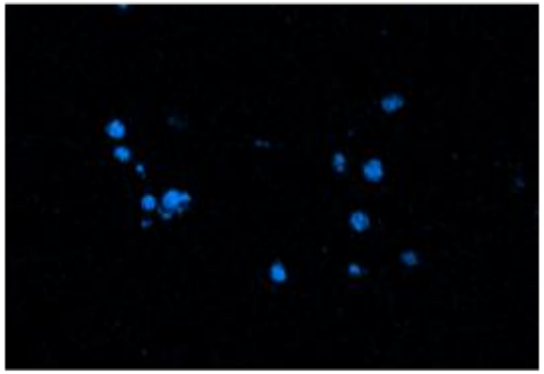
C Kα1_2



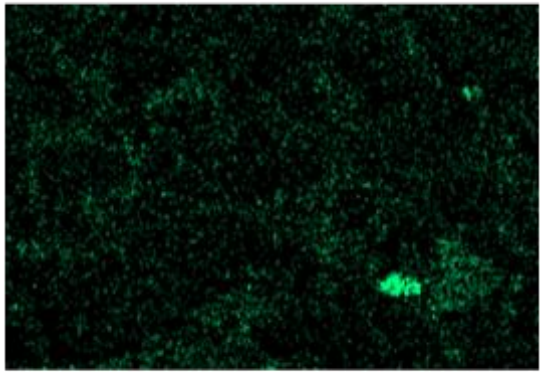
K Kα1



S Kα1



Mg Kα1_2



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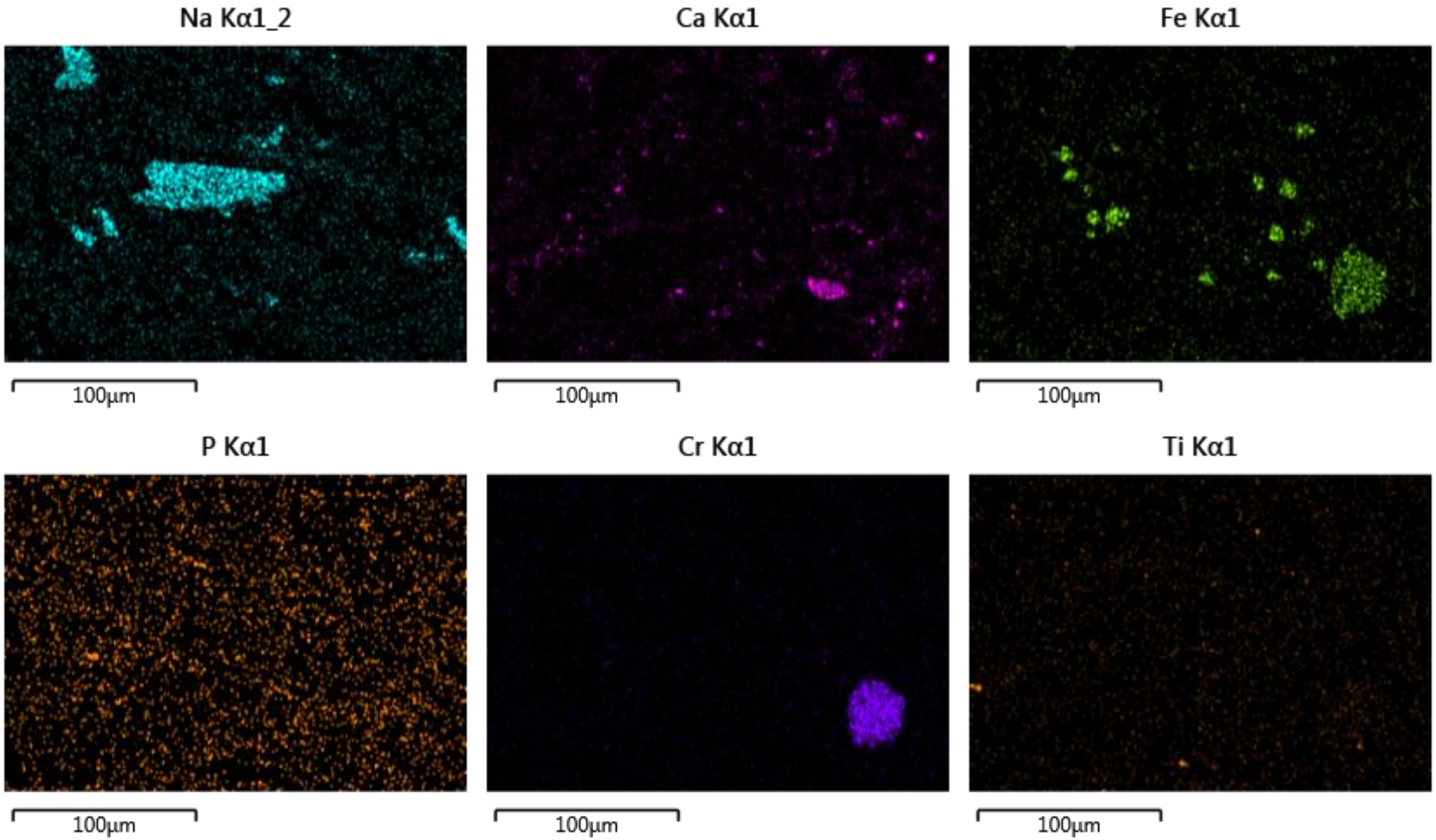

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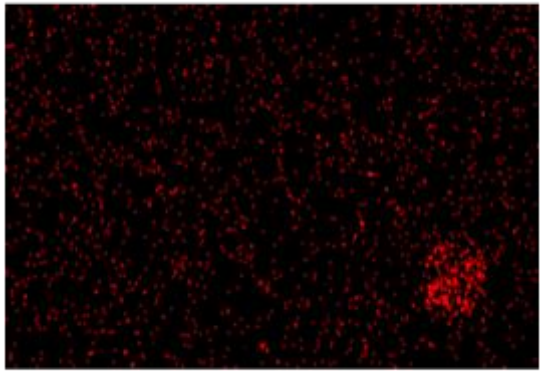
Mn Kα1



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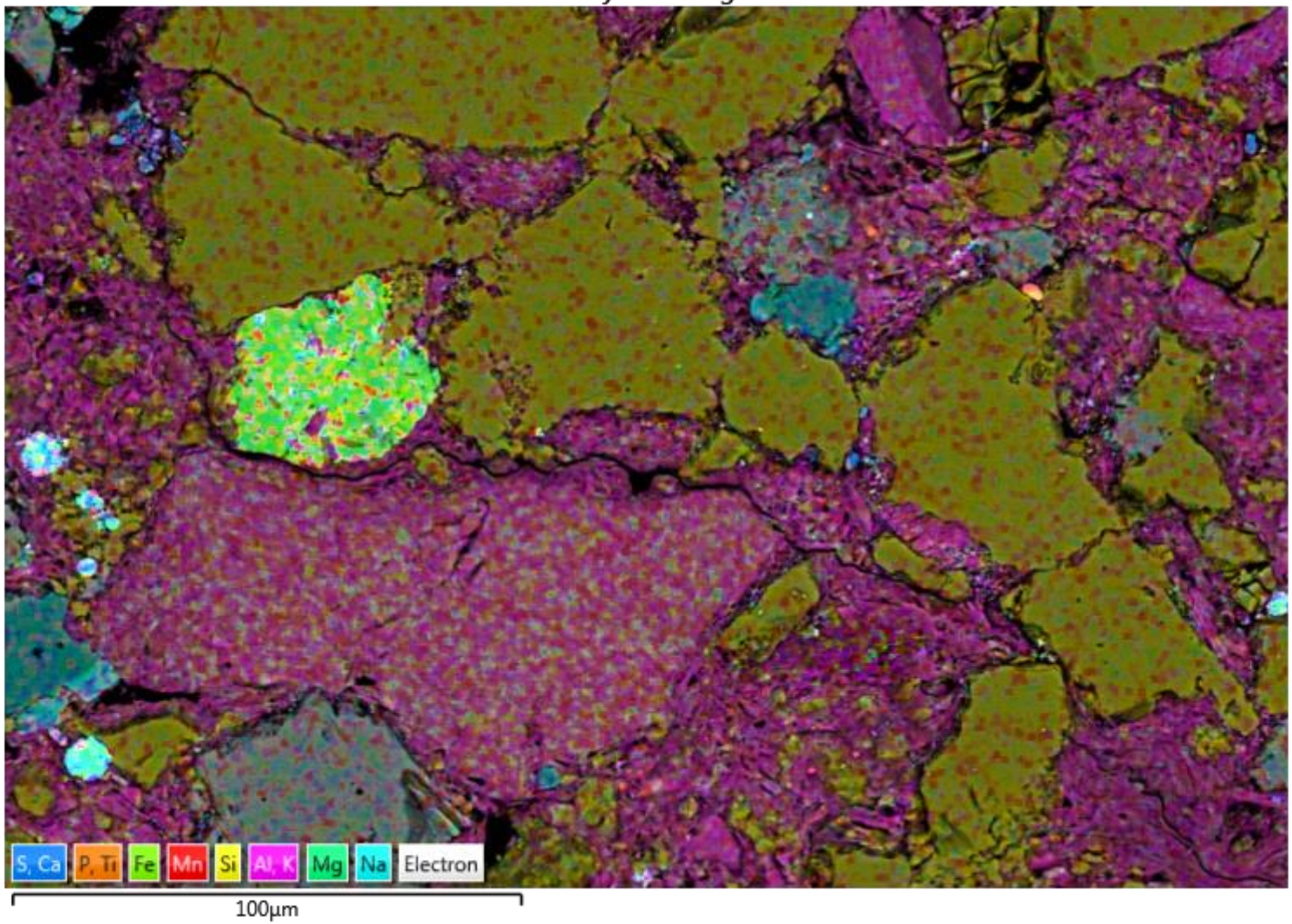

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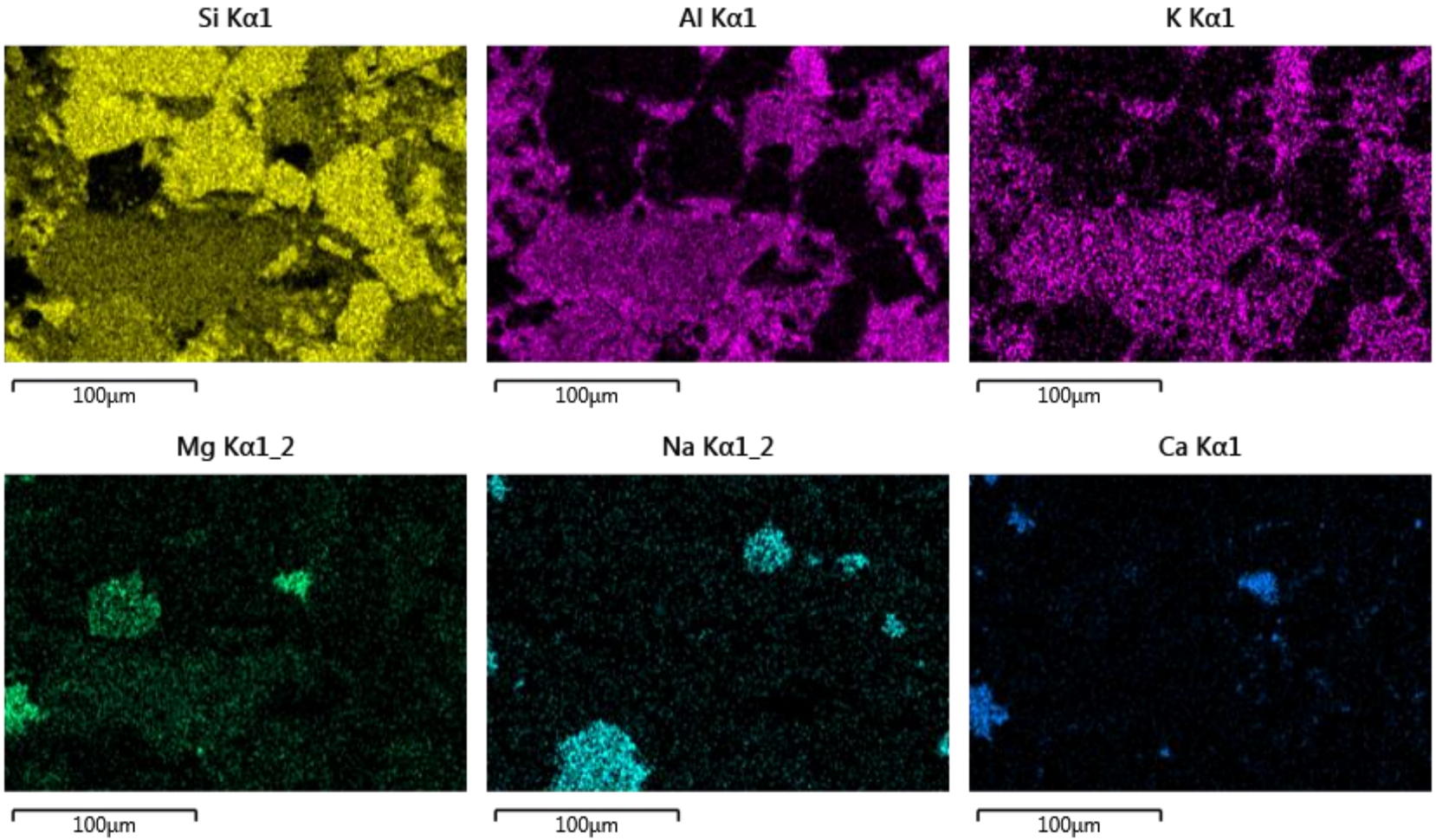

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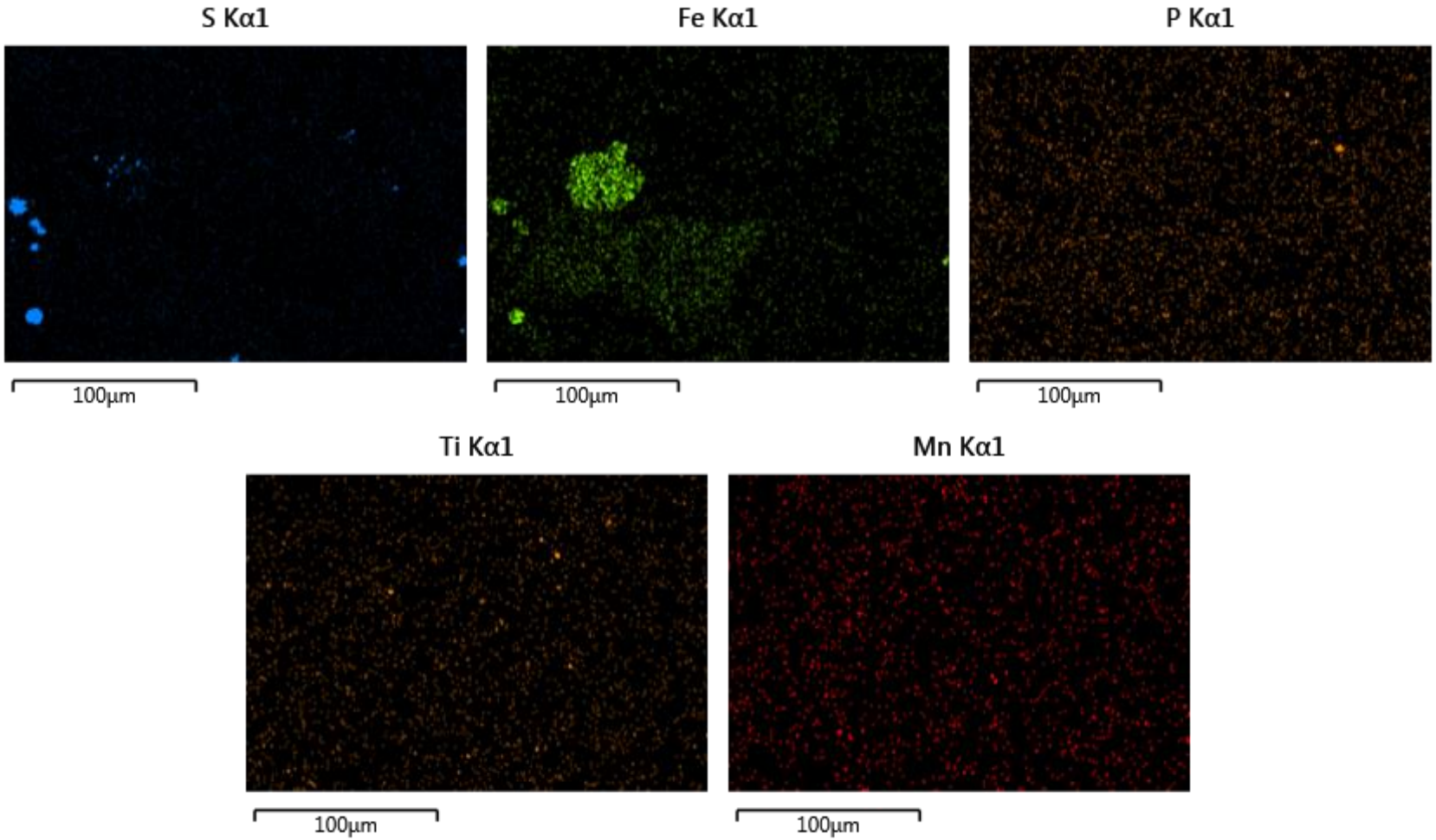

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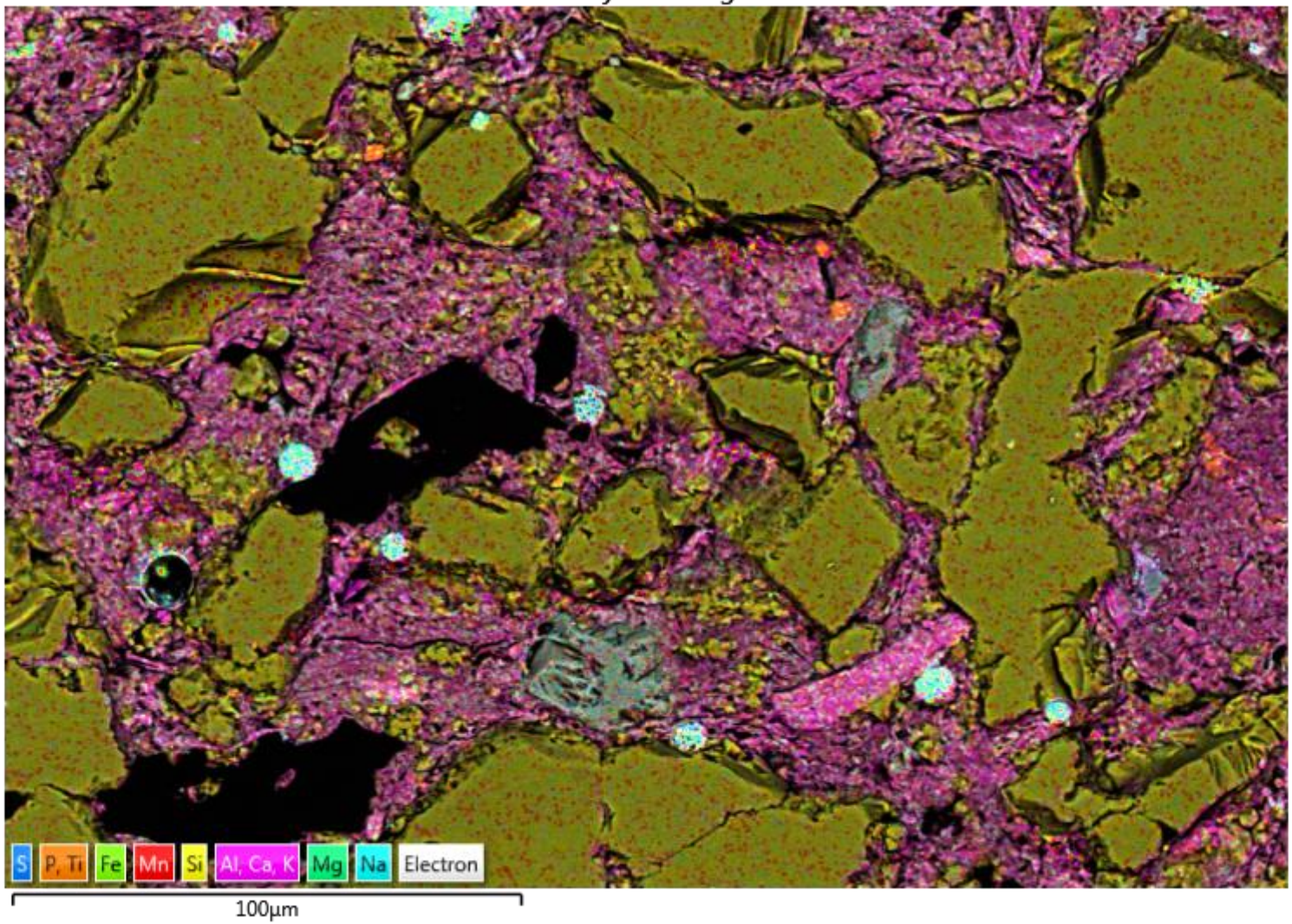

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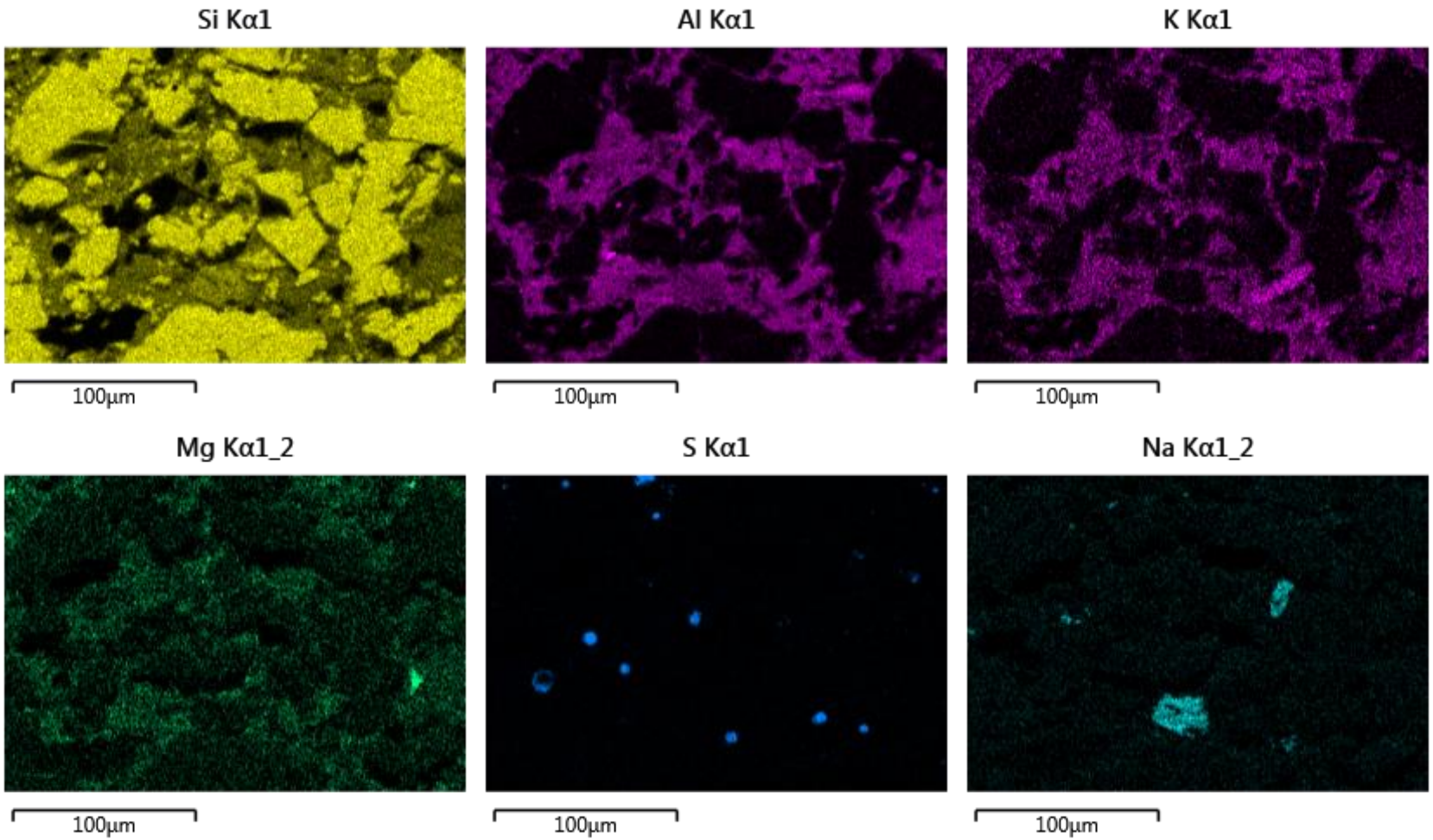

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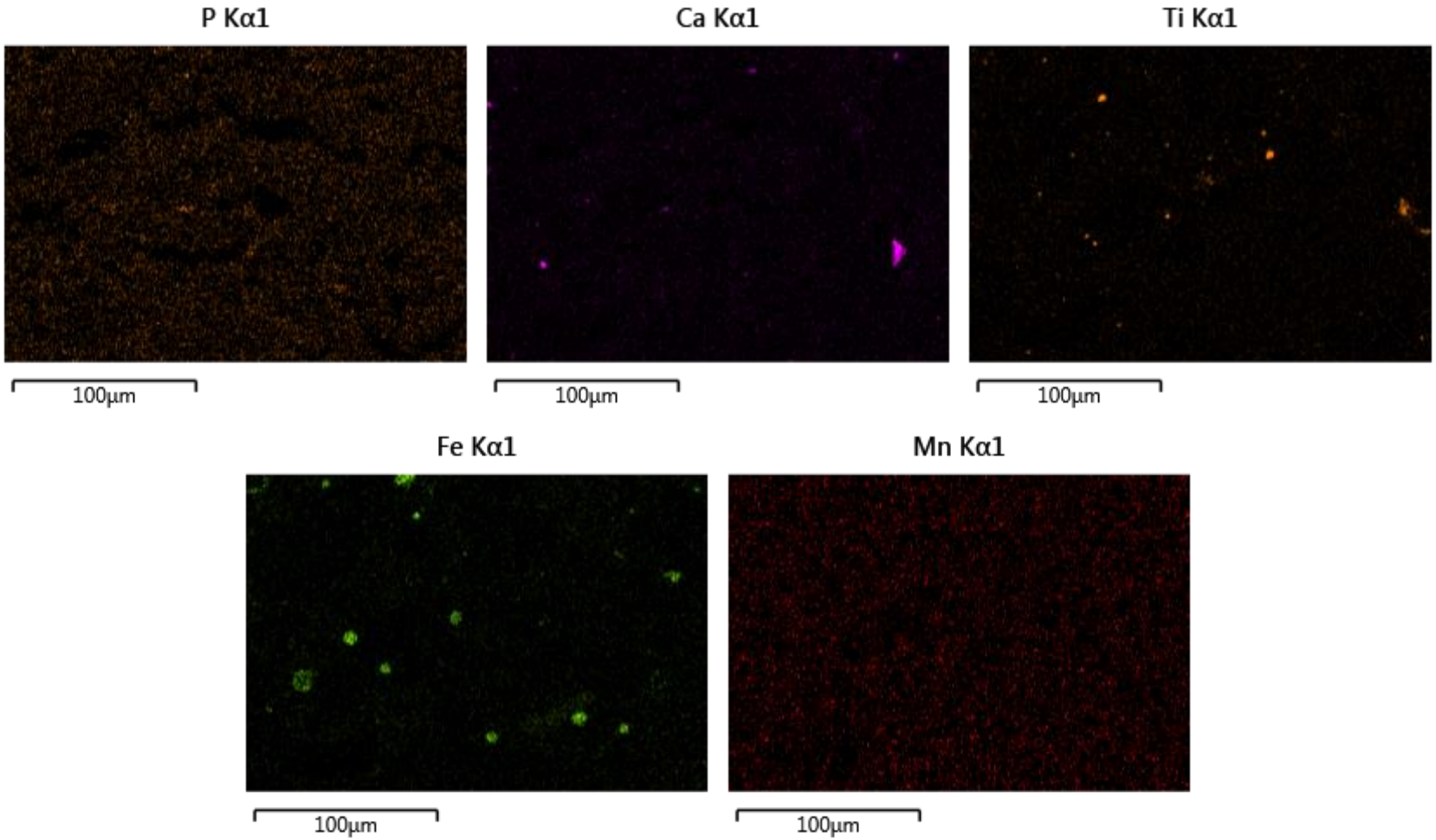

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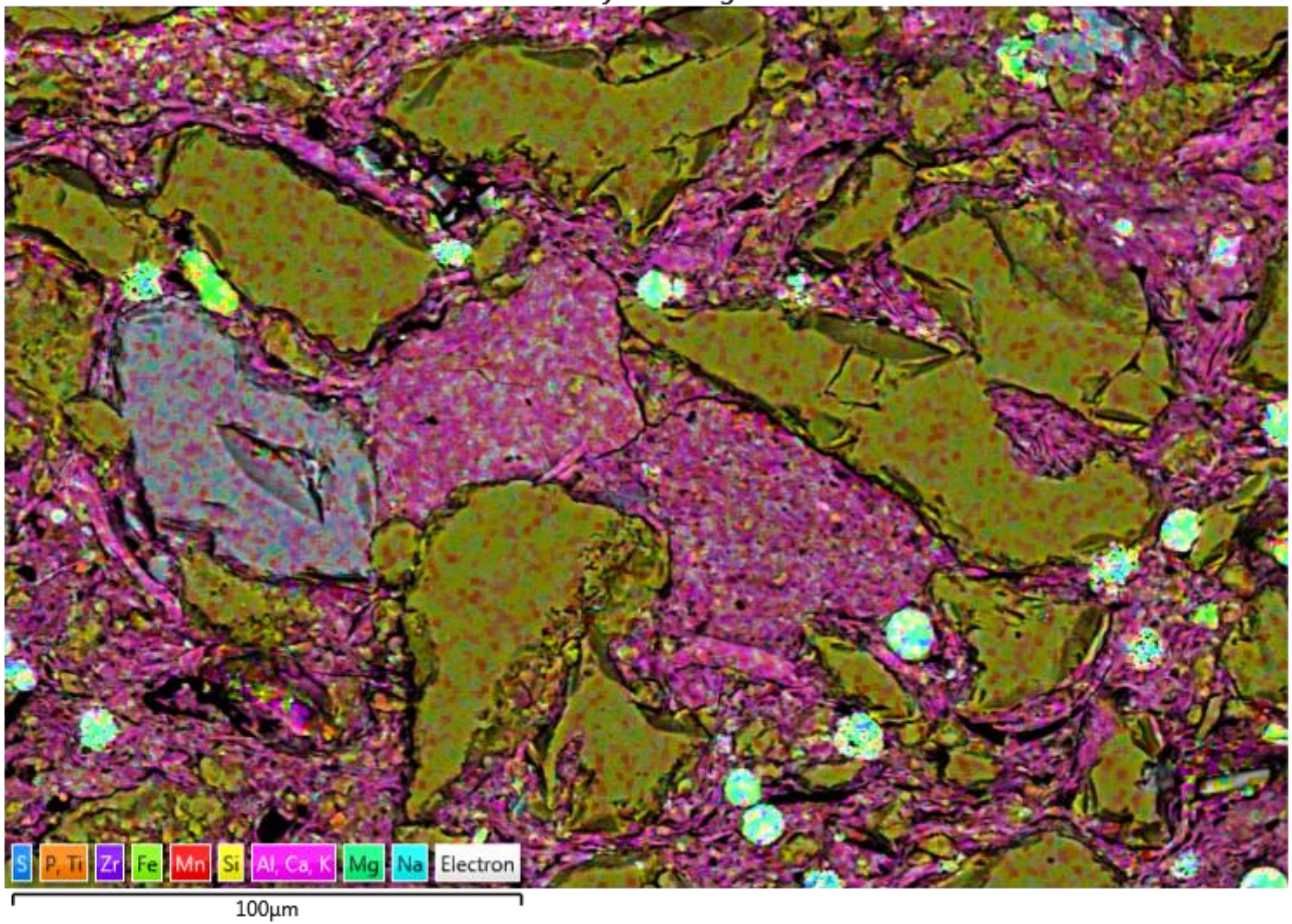
EDS Layered Image 4



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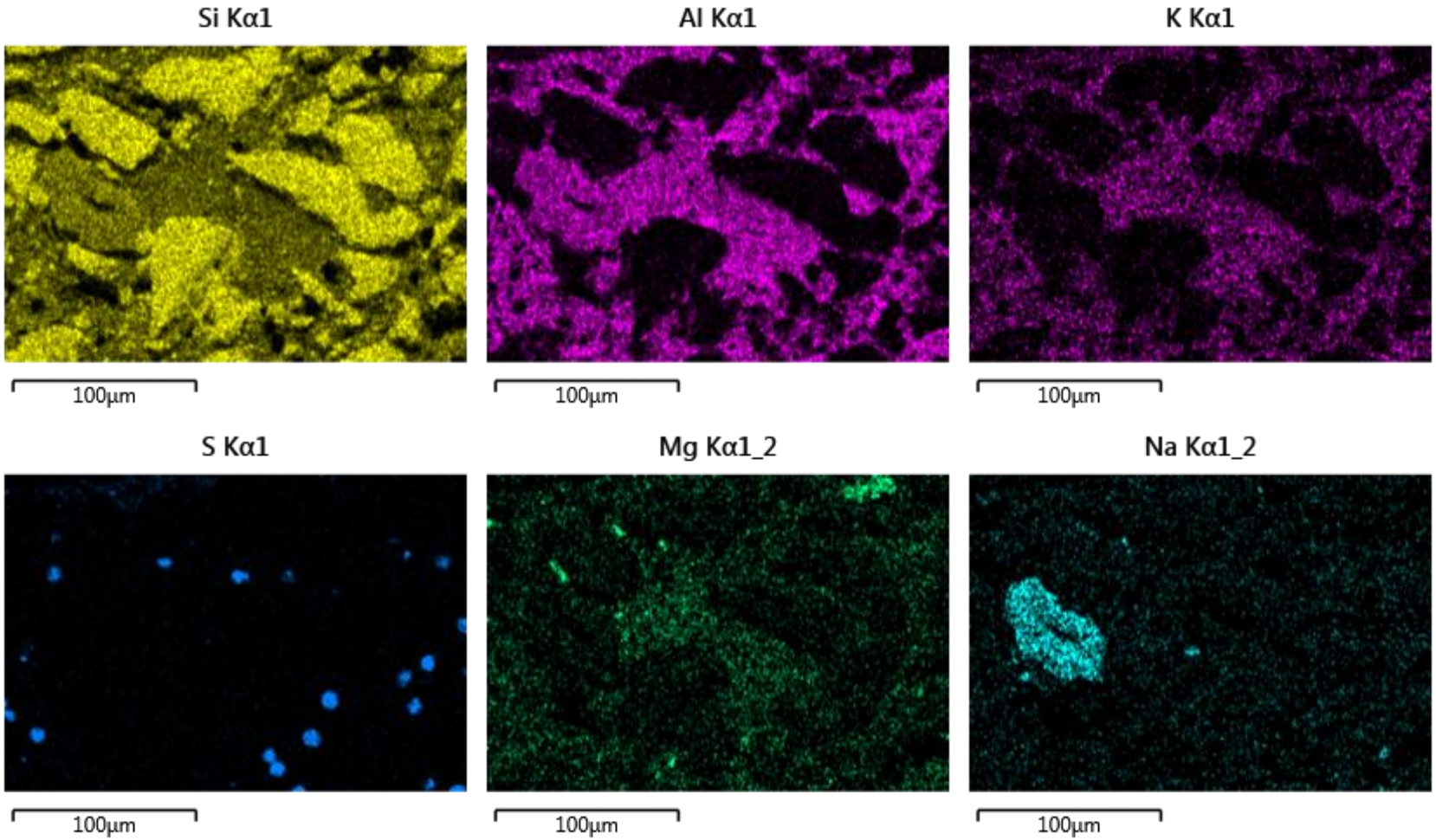
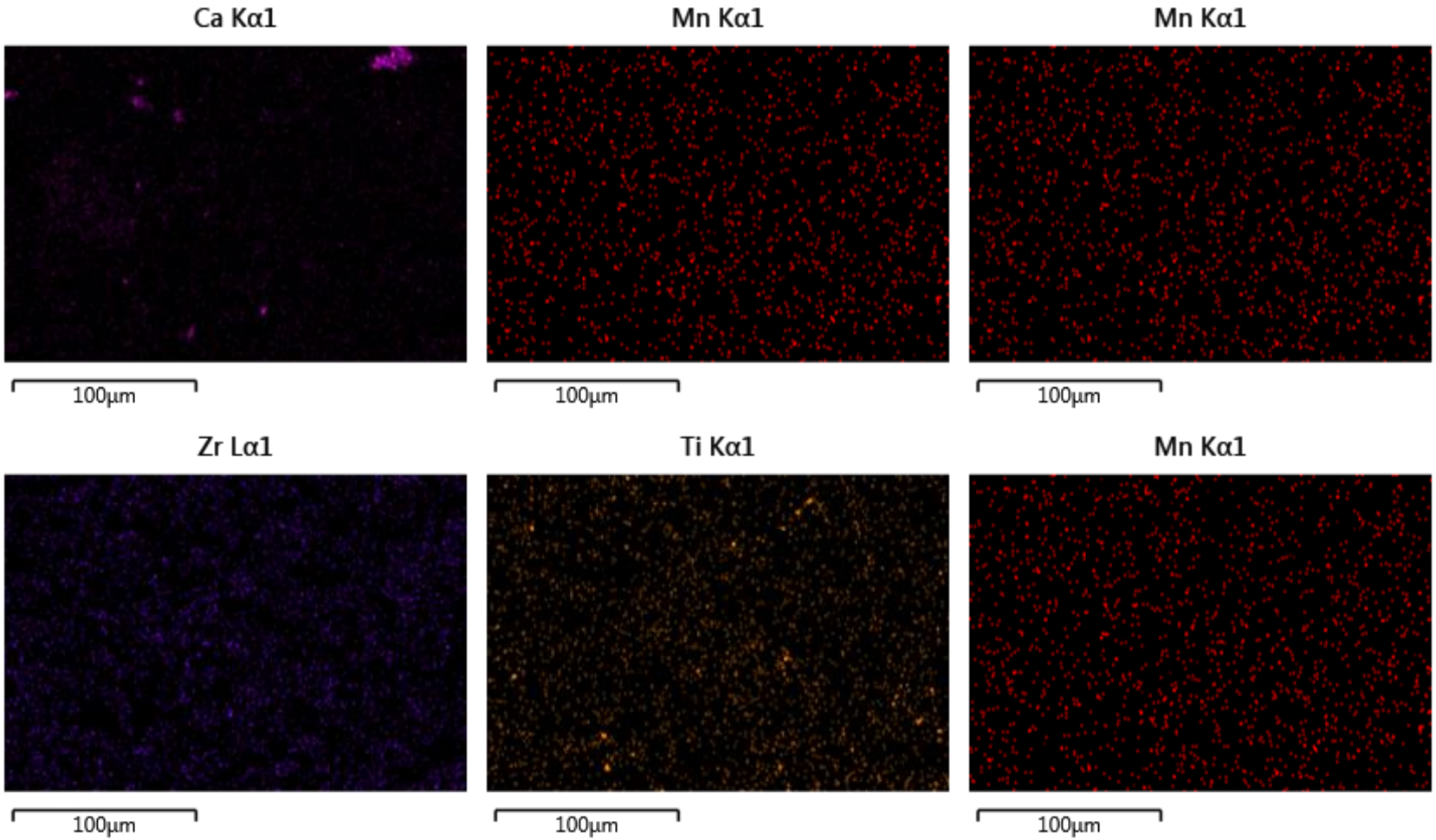

Si Kα1
100µm
Al Kα1
100µm
K Kα1
100µm
S Kα1
100µm
Mg Kα1_2
100µm
Na Kα1_2
100µm



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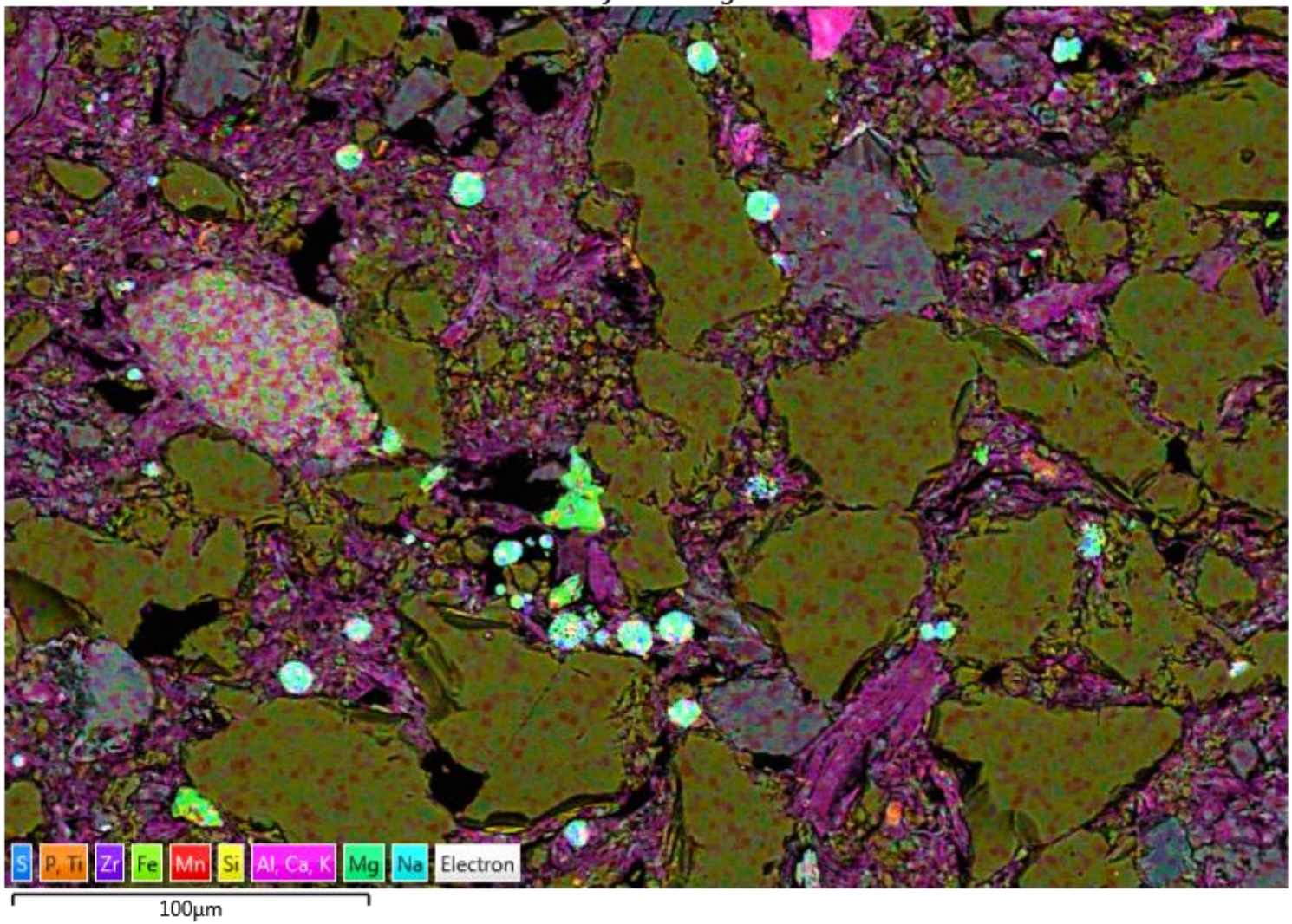
EDS Layered Image 5



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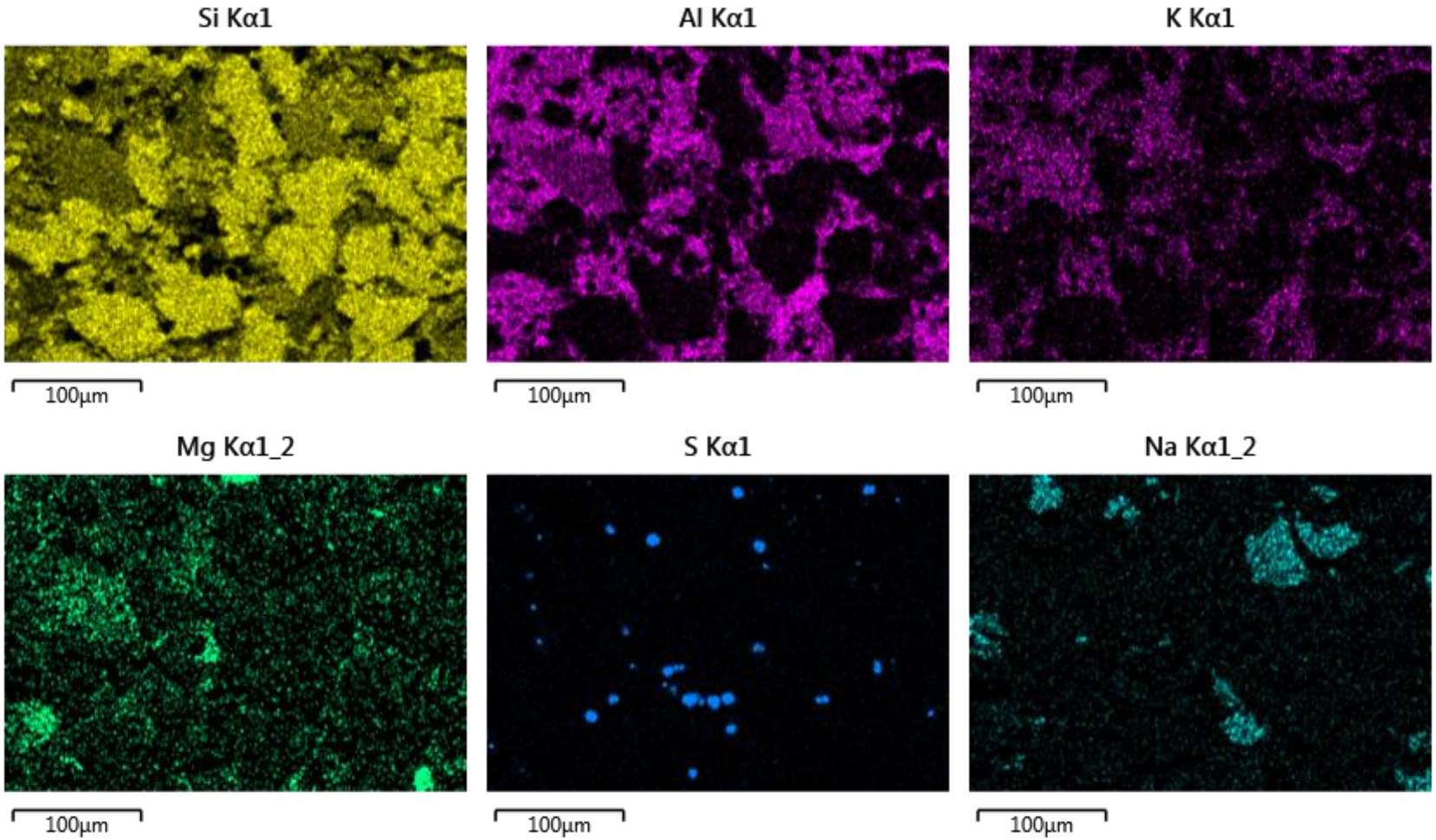
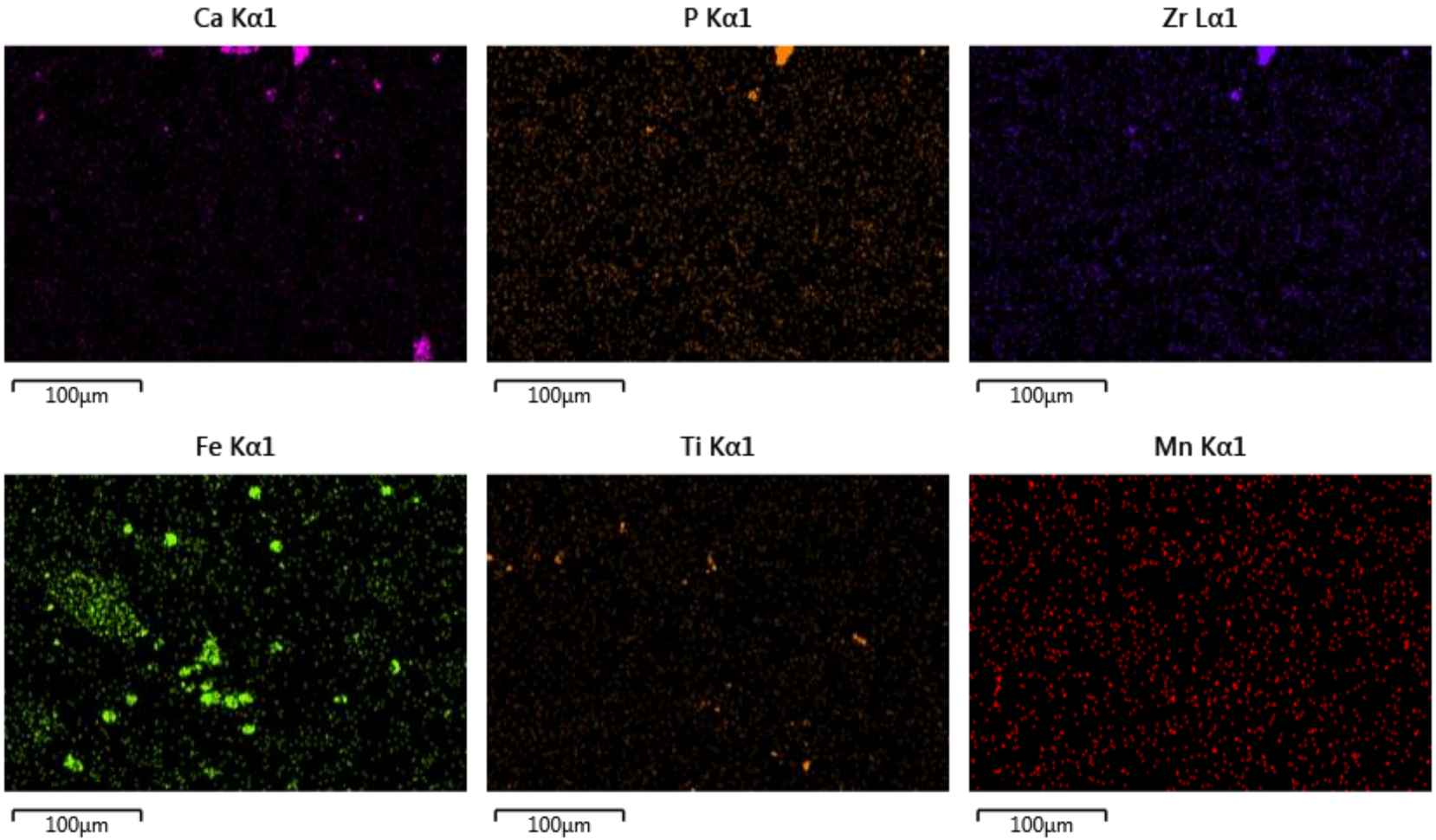

Si Kα1
Al Kα1
K Kα1
100µm
100µm
100µm
Mg Kα1_2
S Kα1
Na Kα1_2
100µm
100µm
100µm



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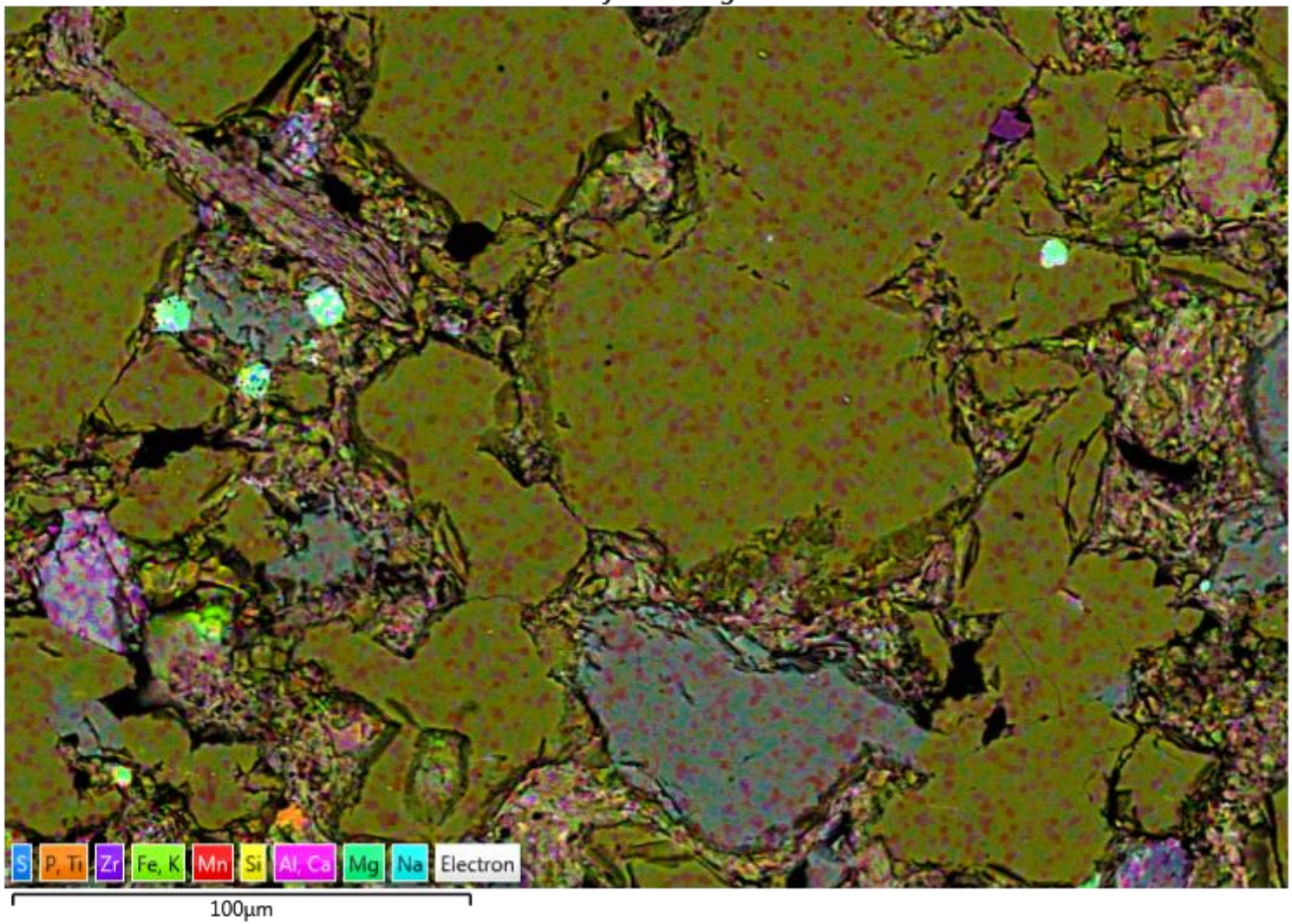
EDS Layered Image 6



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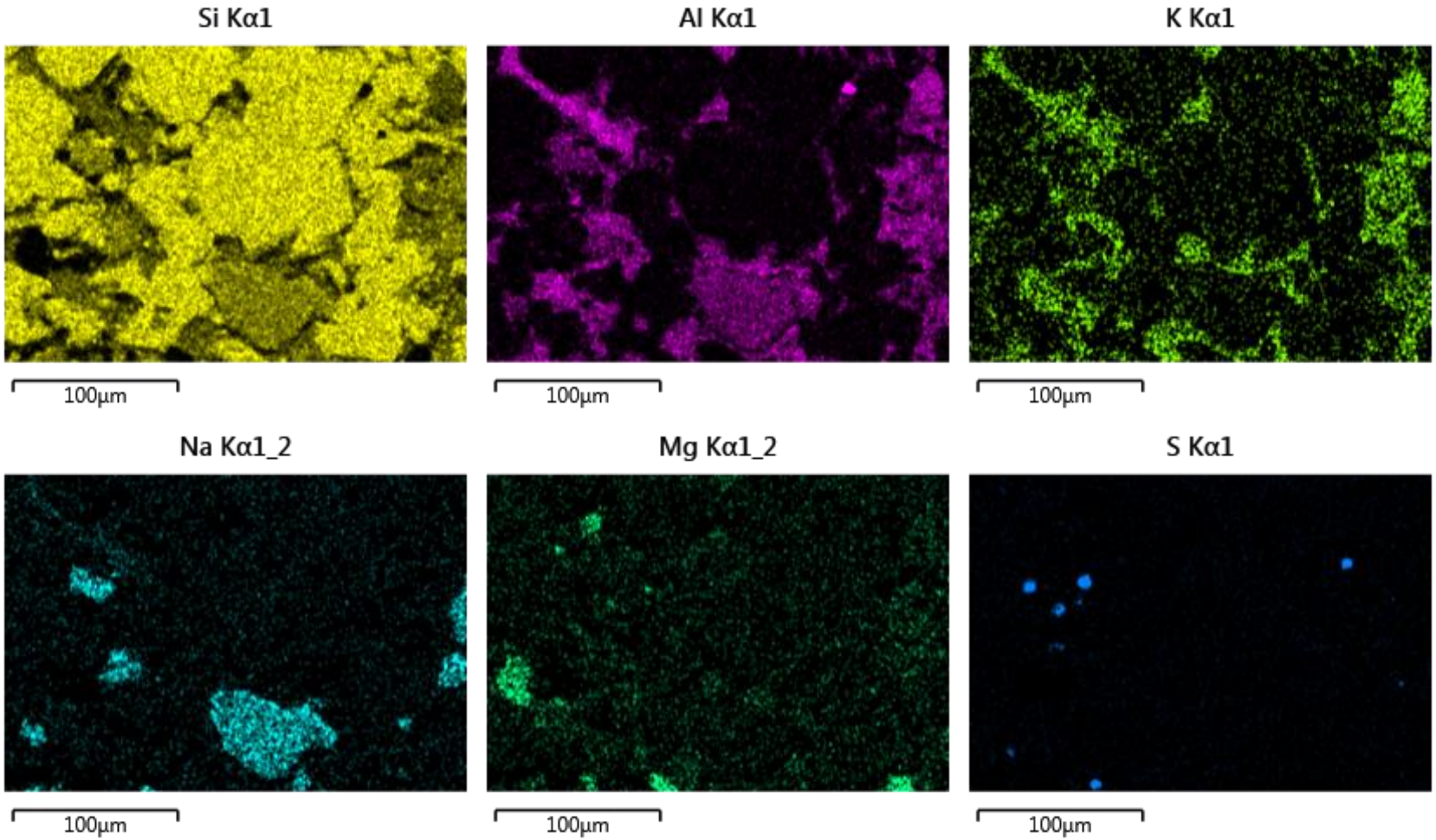
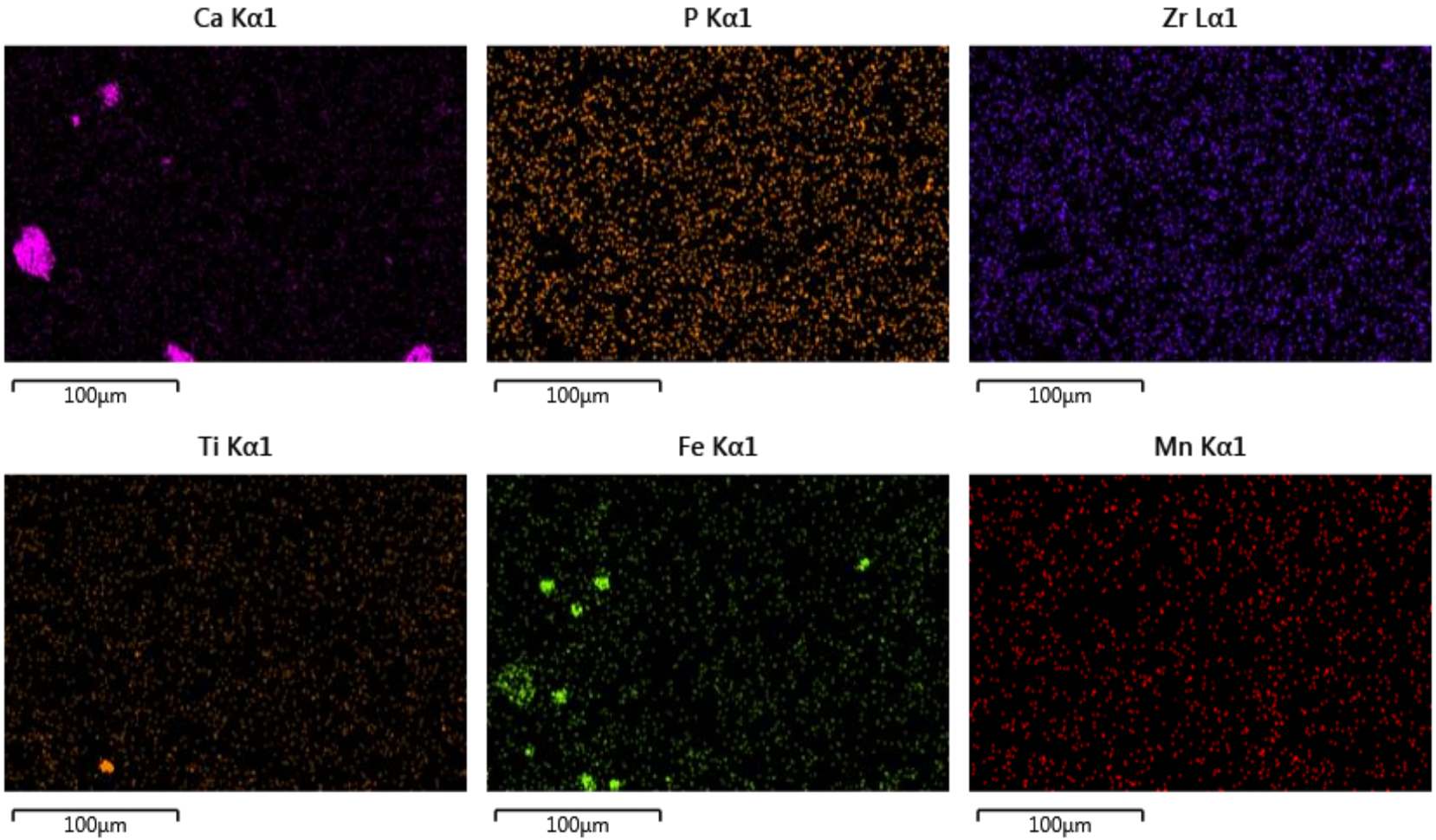

Si Kα1
Al Kα1
K Kα1
100µm
100µm
100µm
Na Kα1_2
Mg Kα1_2
S Kα1
100µm
100µm
100µm



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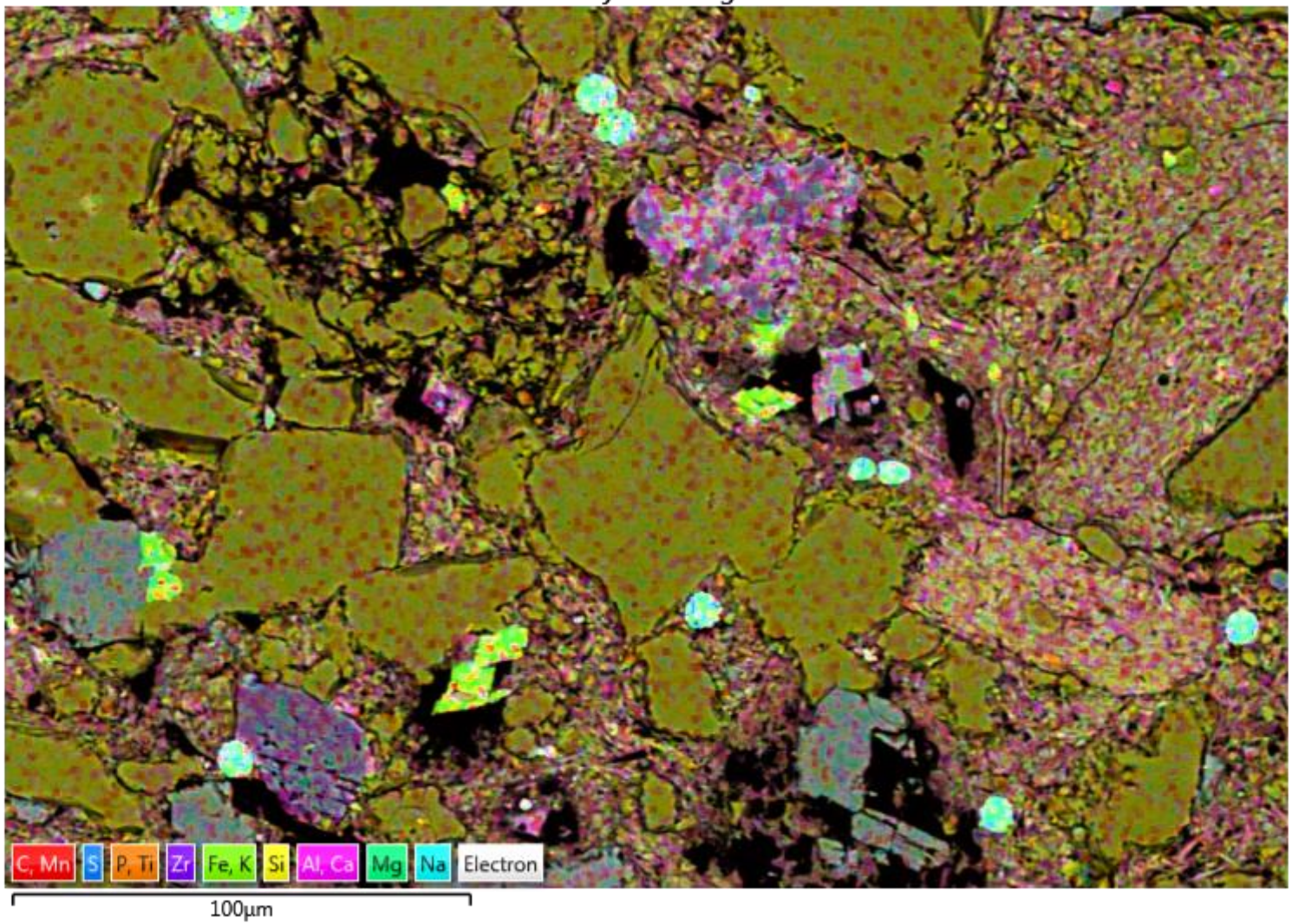
EDS Layered Image 7



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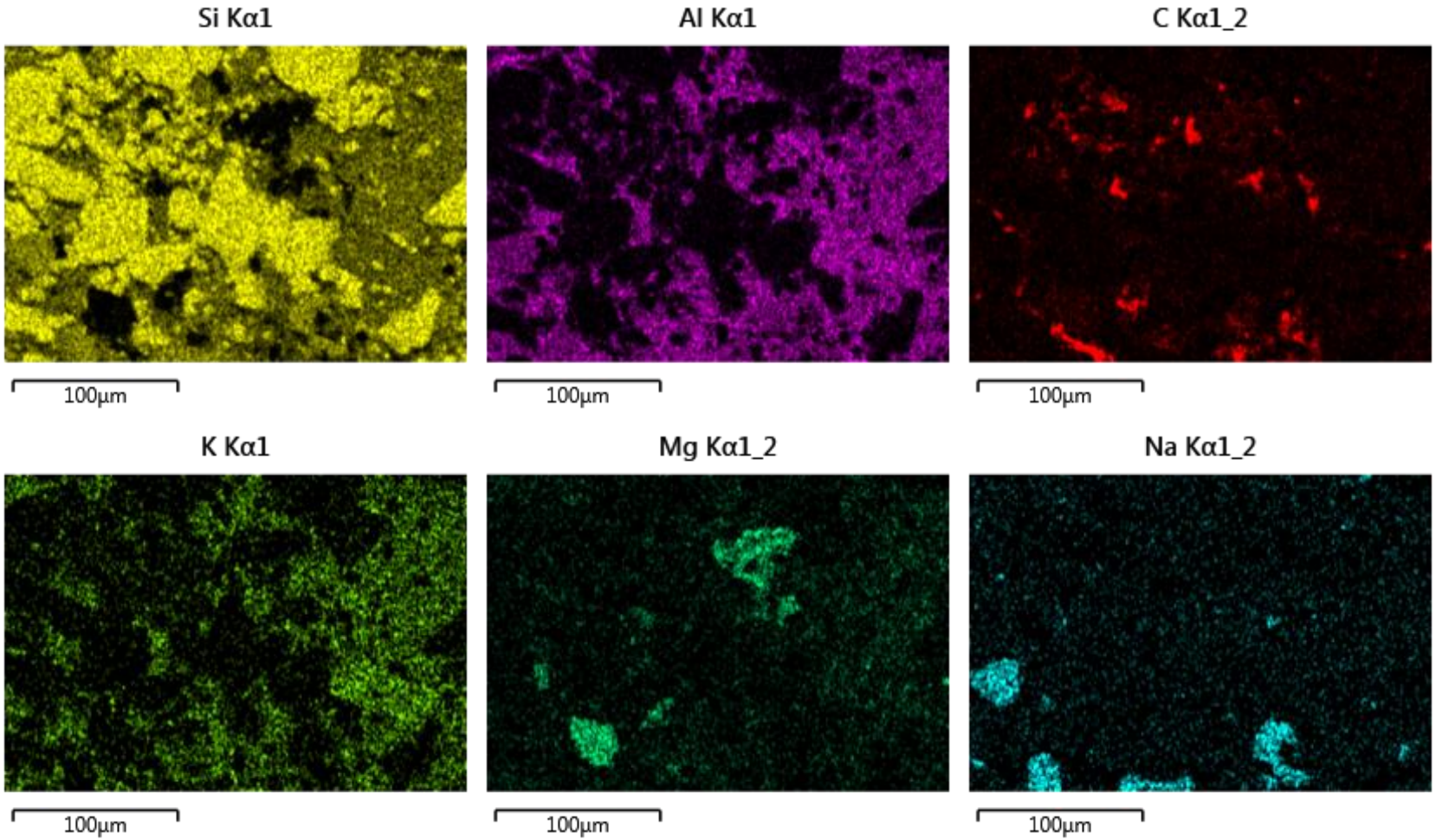

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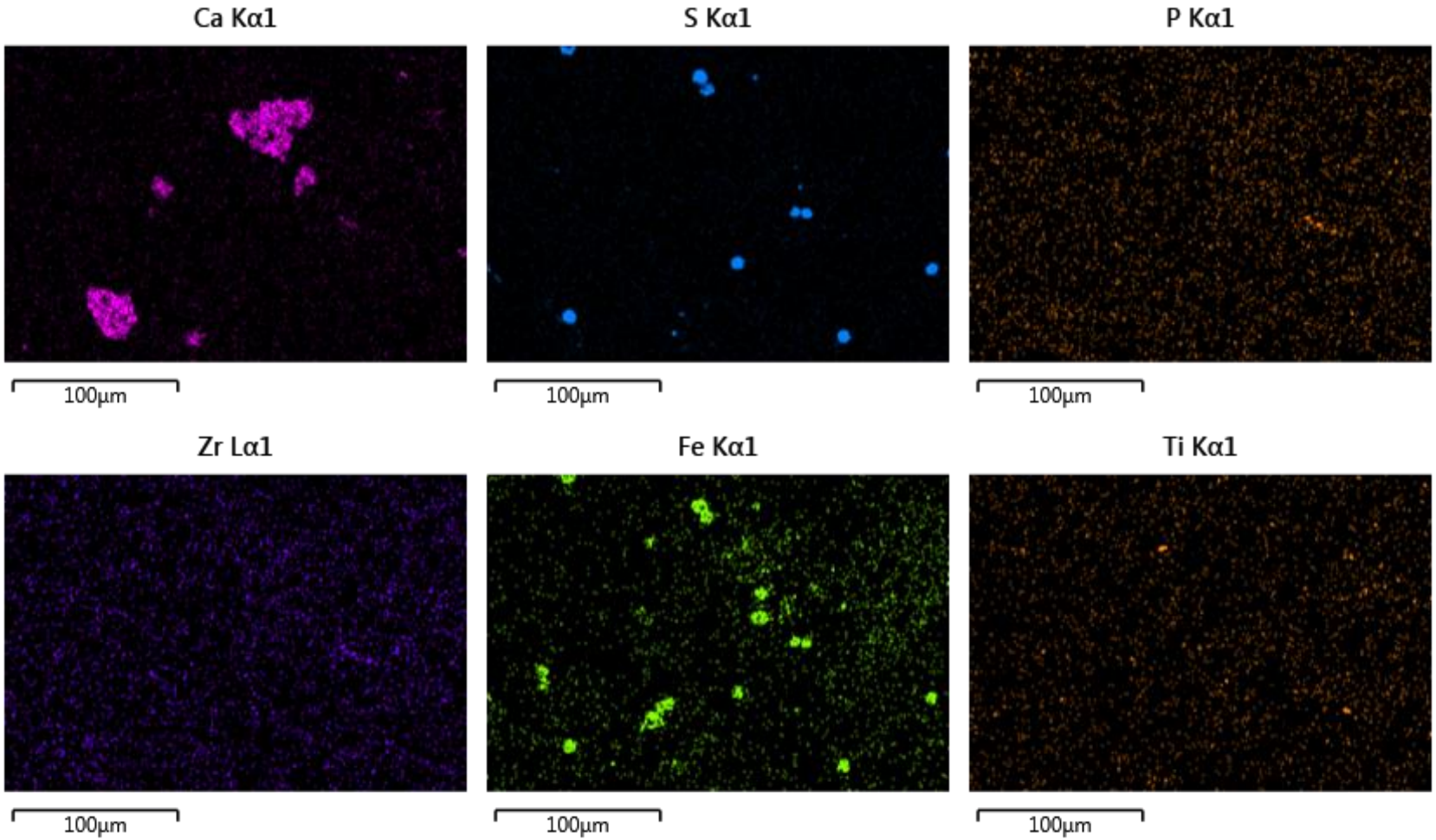

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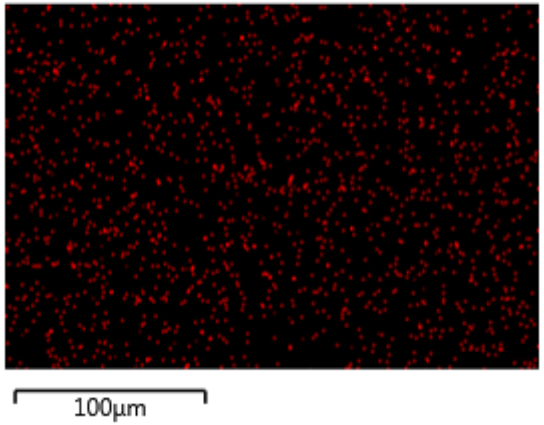
Mn Kα1



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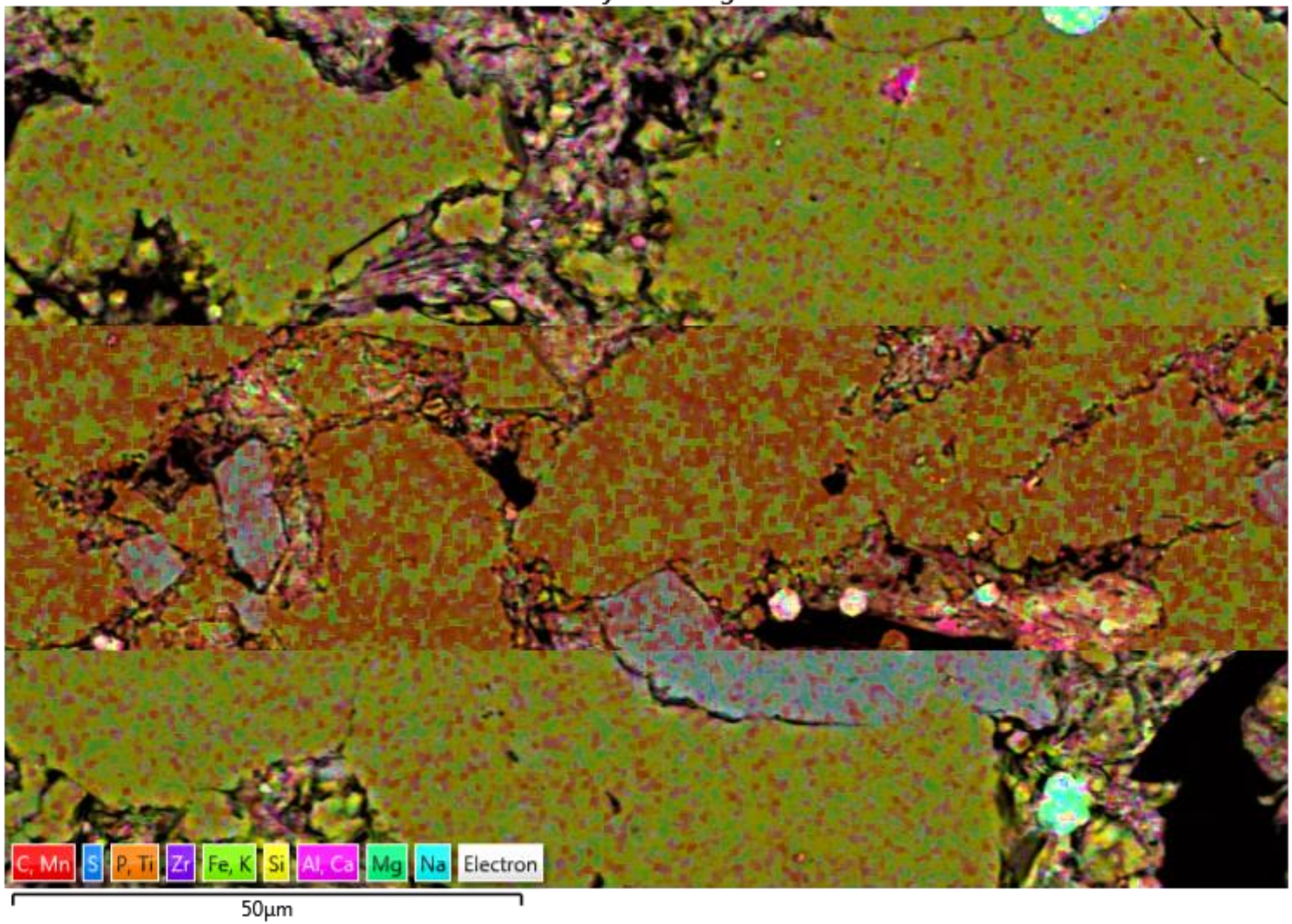
EDS Layered Image 9



OXFORD INSTRUMENTS
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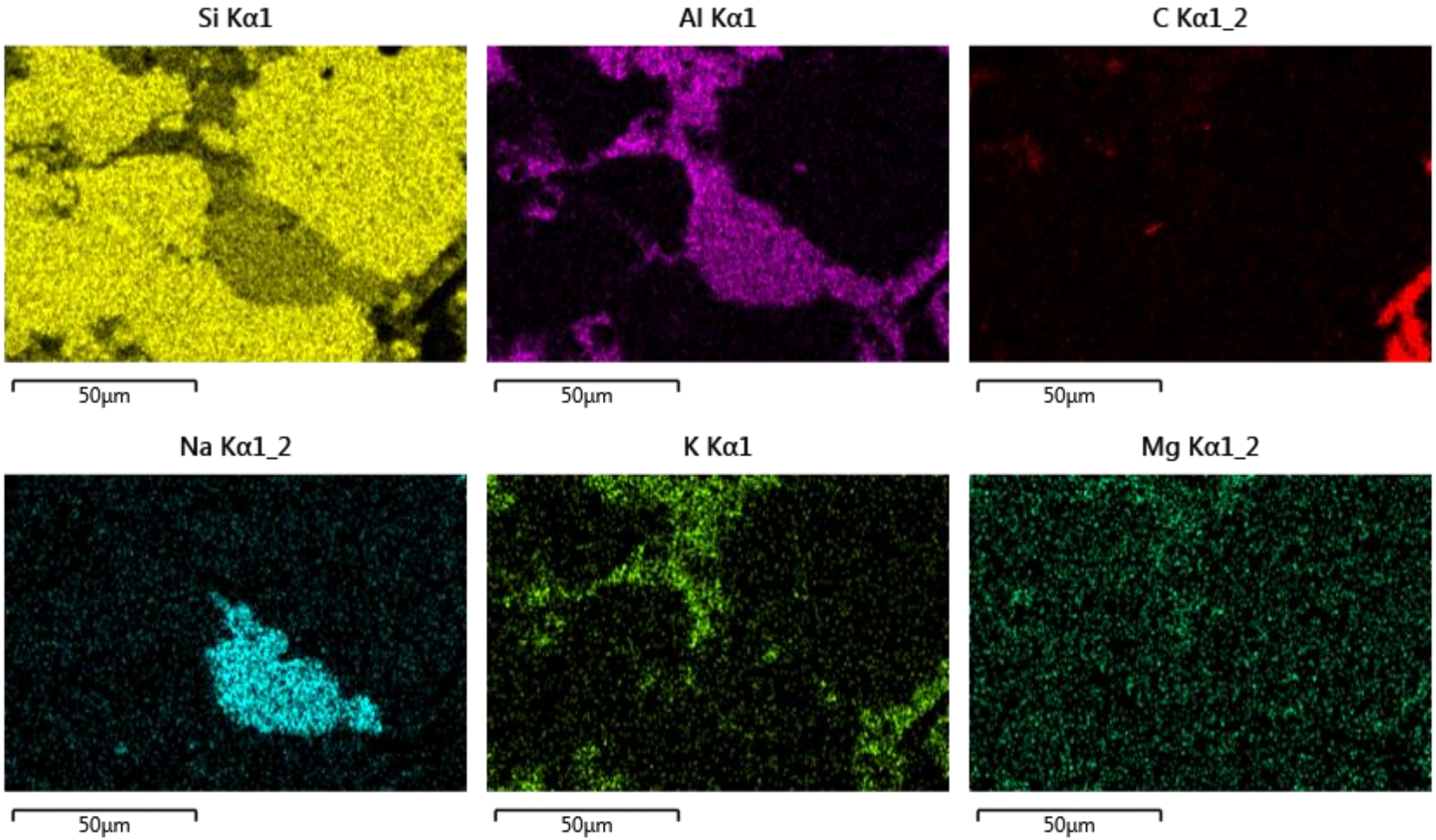

OXFORD INSTRUMENTS
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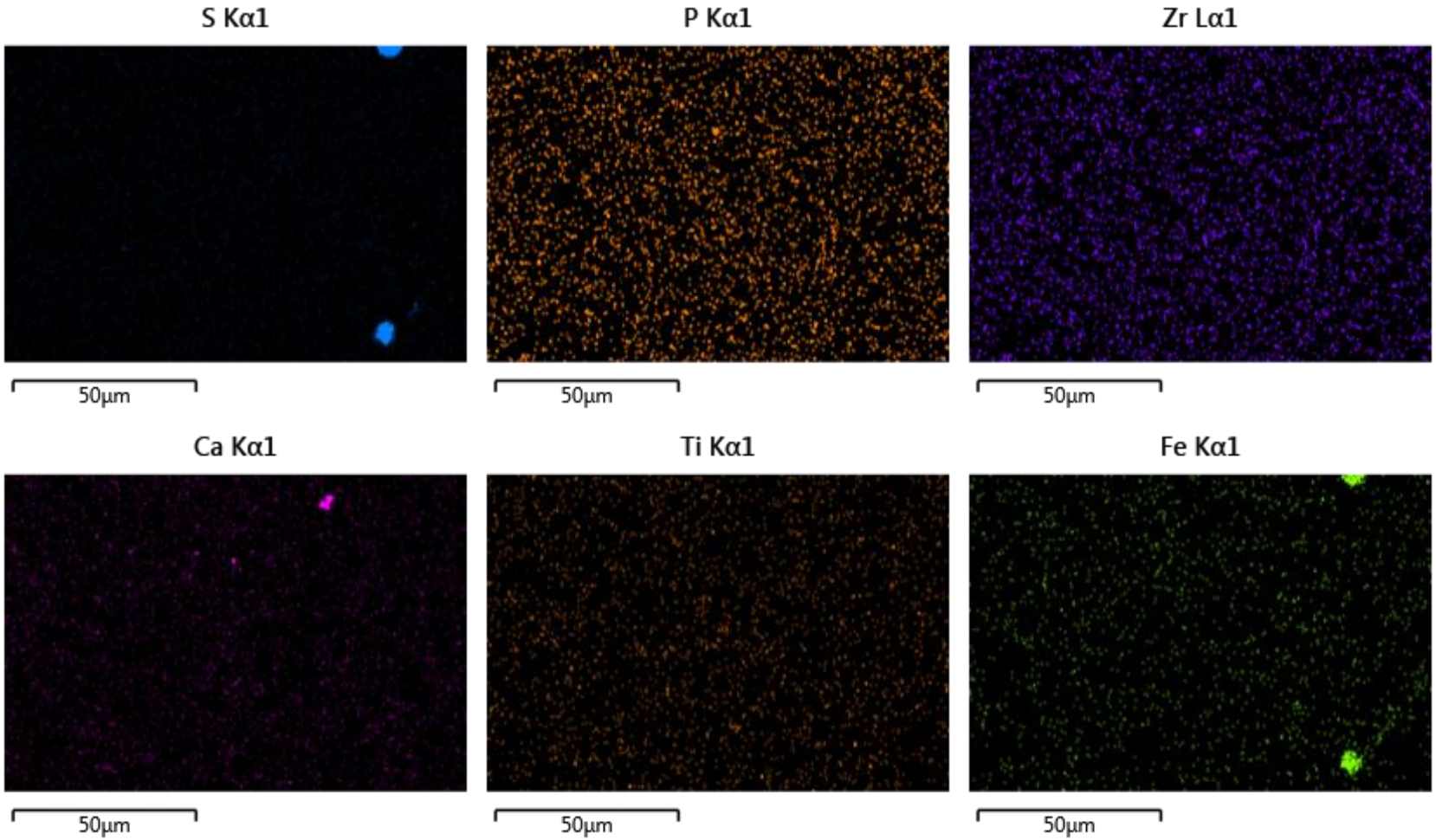
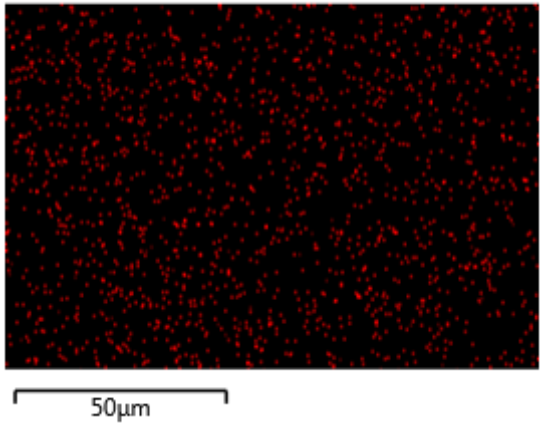

S Kα1
P Kα1
Zr Lα1
50µm
50µm
50µm
Ca Kα1
Ti Kα1
Fe Kα1
50µm
50µm
50µm

Mn Kα1



OXFORD INSTRUMENTS
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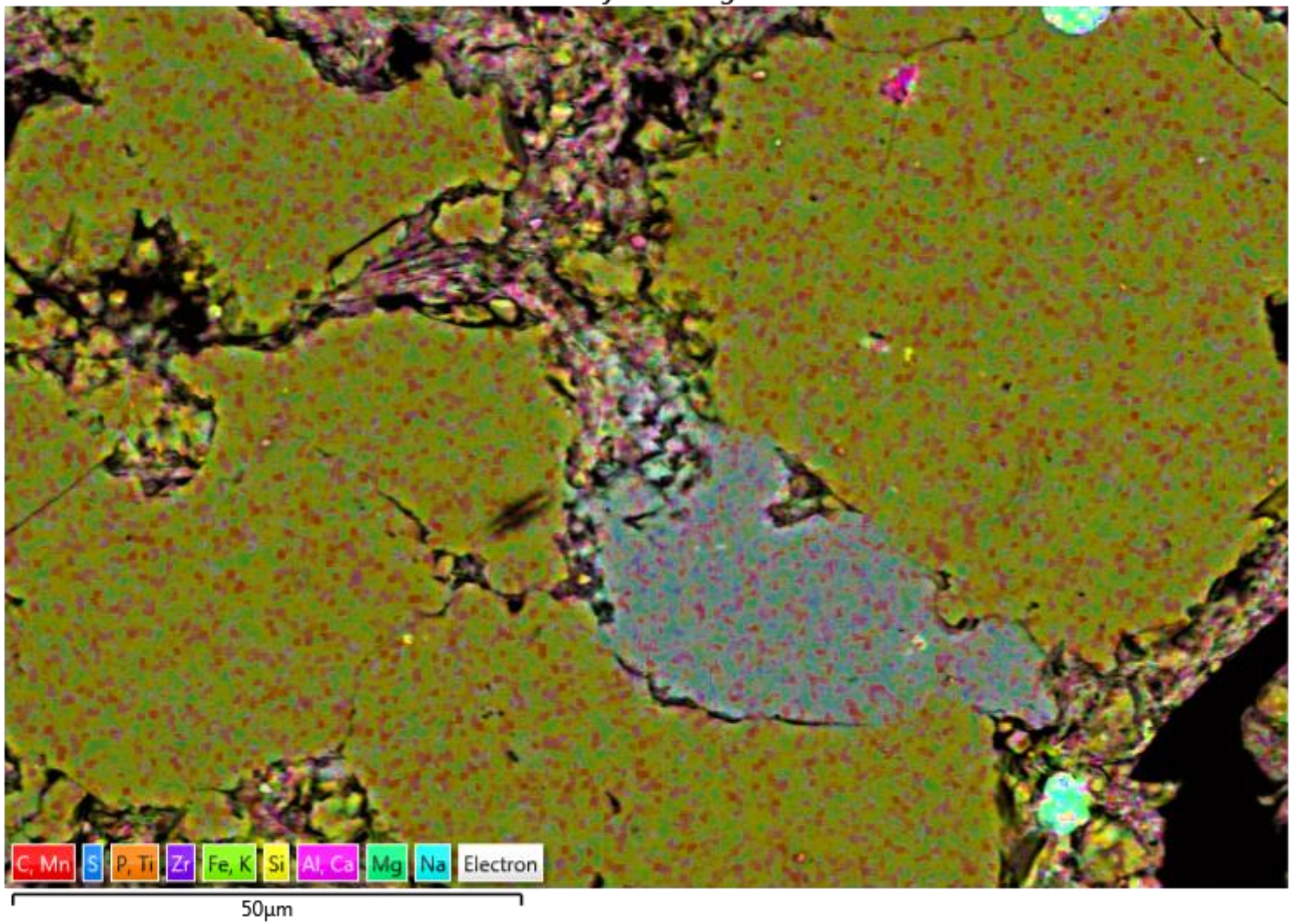
EDS Layered Image 9



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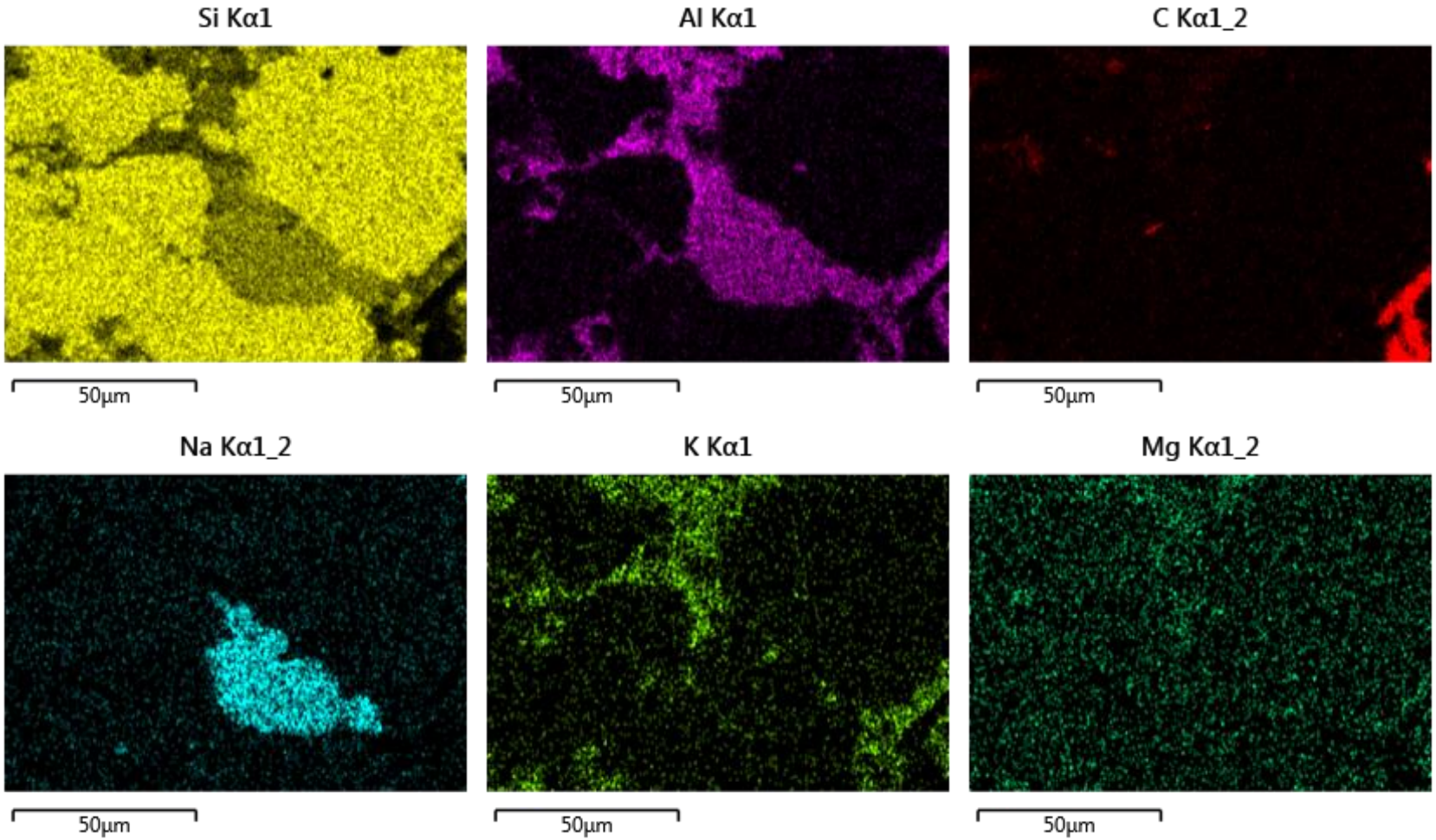

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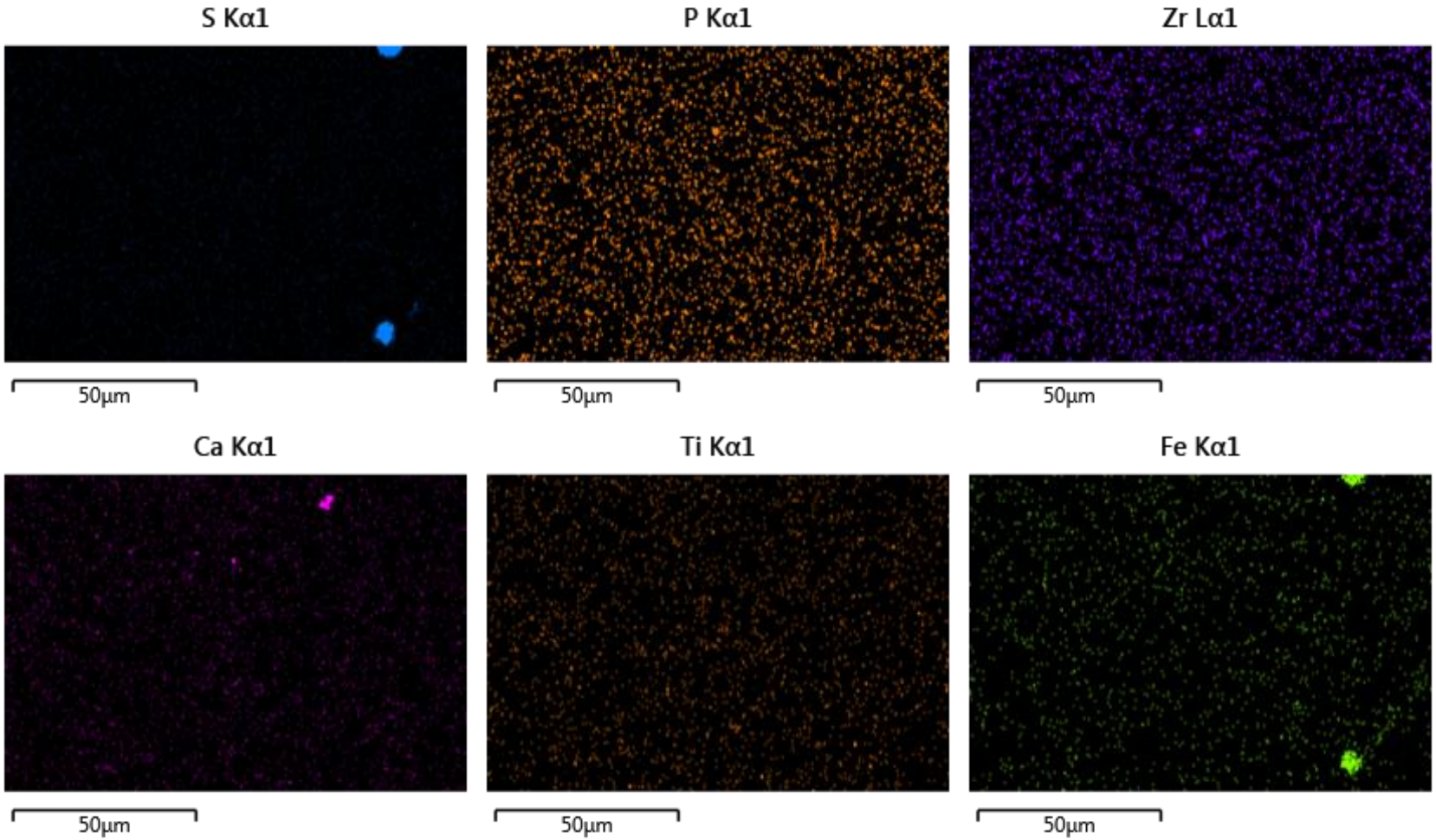
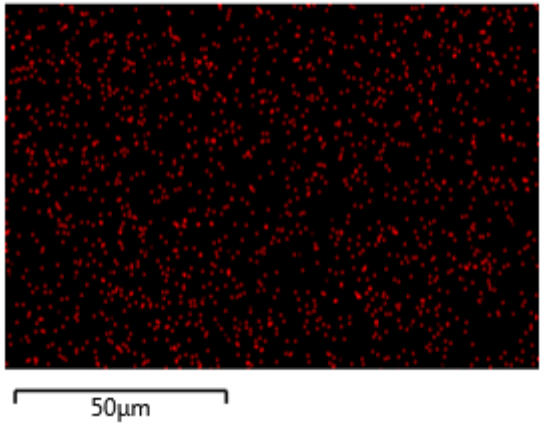

S Kα1
P Kα1
Zr Lα1
50µm
50µm
50µm
Ca Kα1
Ti Kα1
Fe Kα1
50µm
50µm
50µm

Mn Kα1



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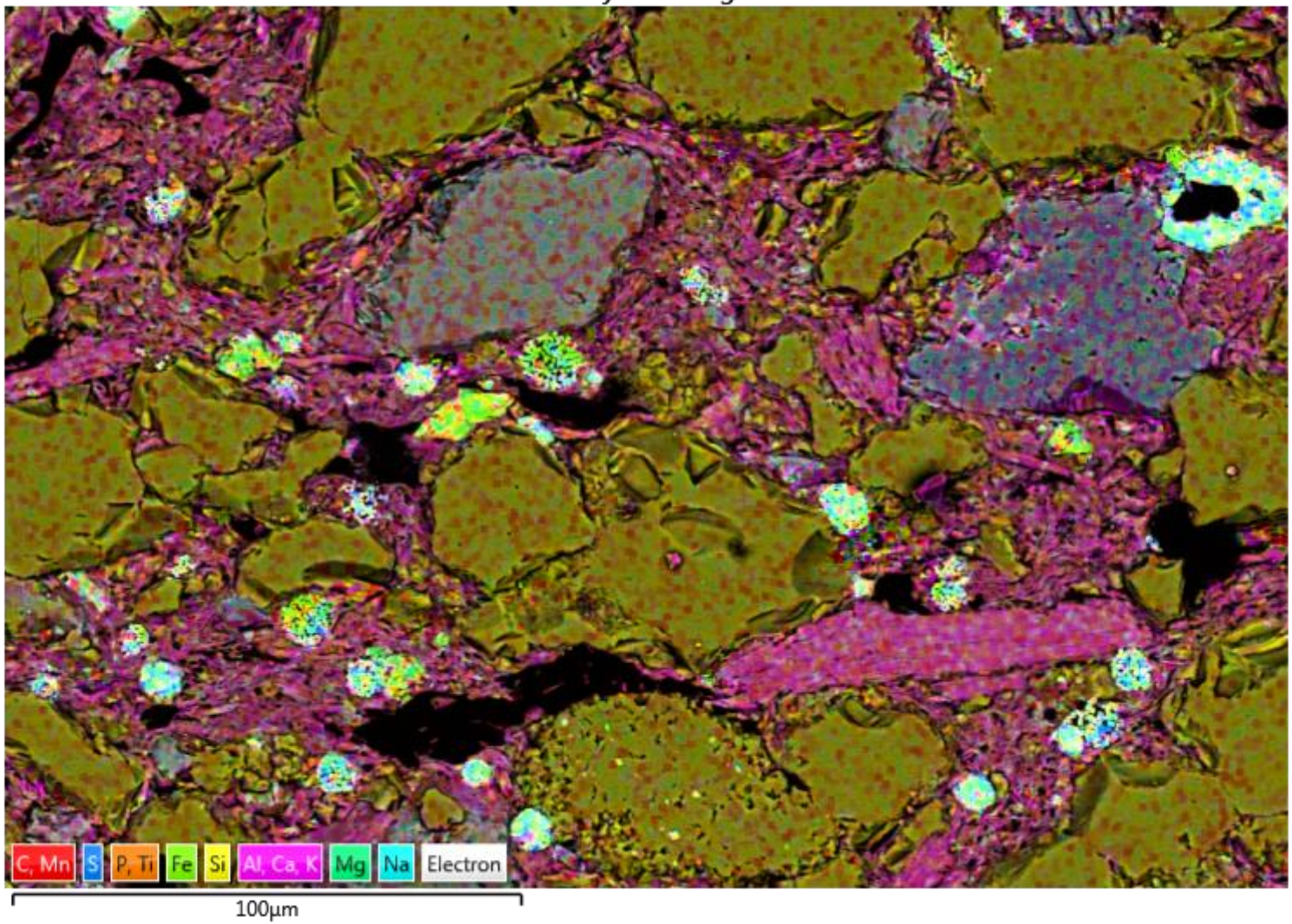

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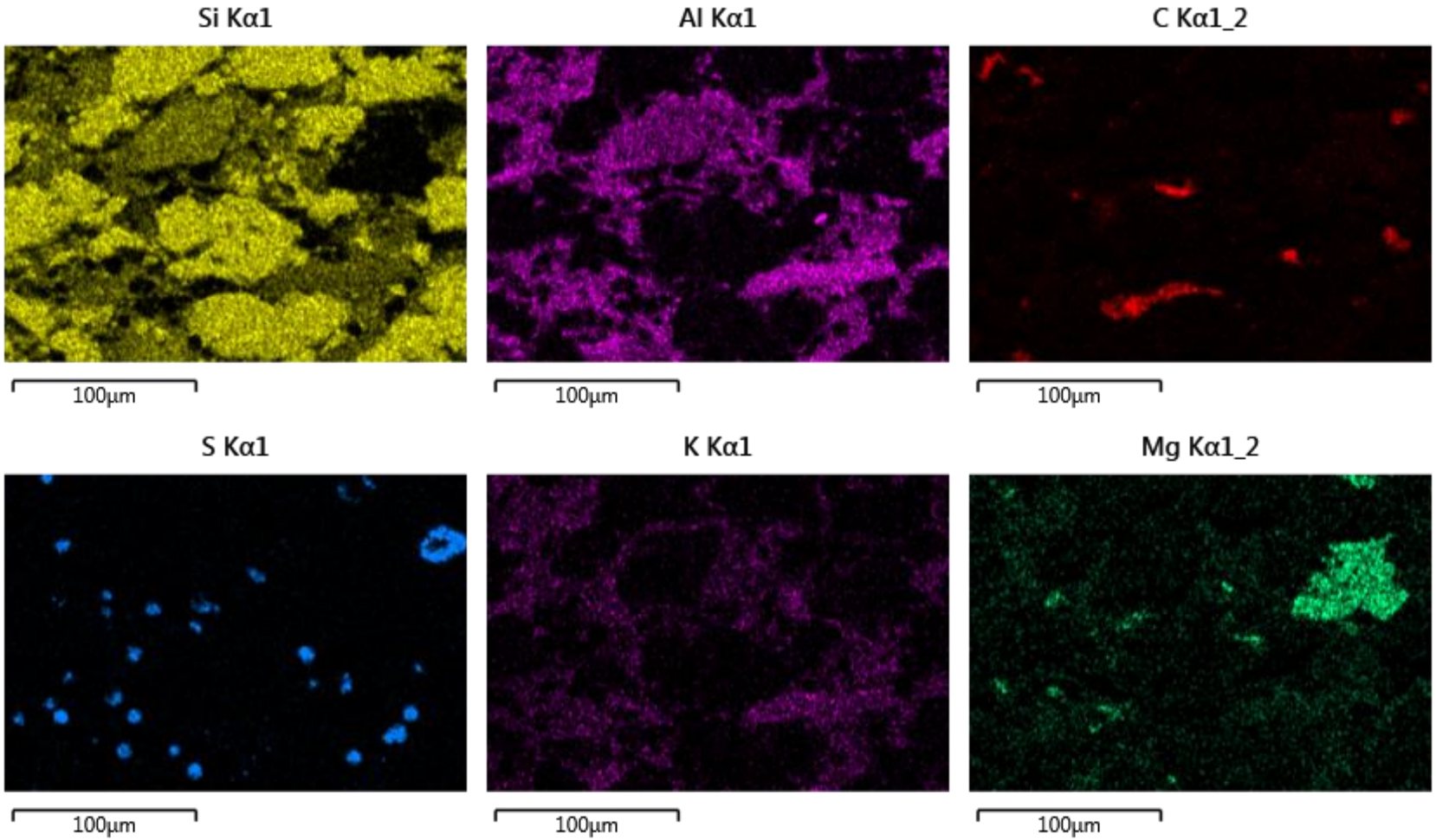

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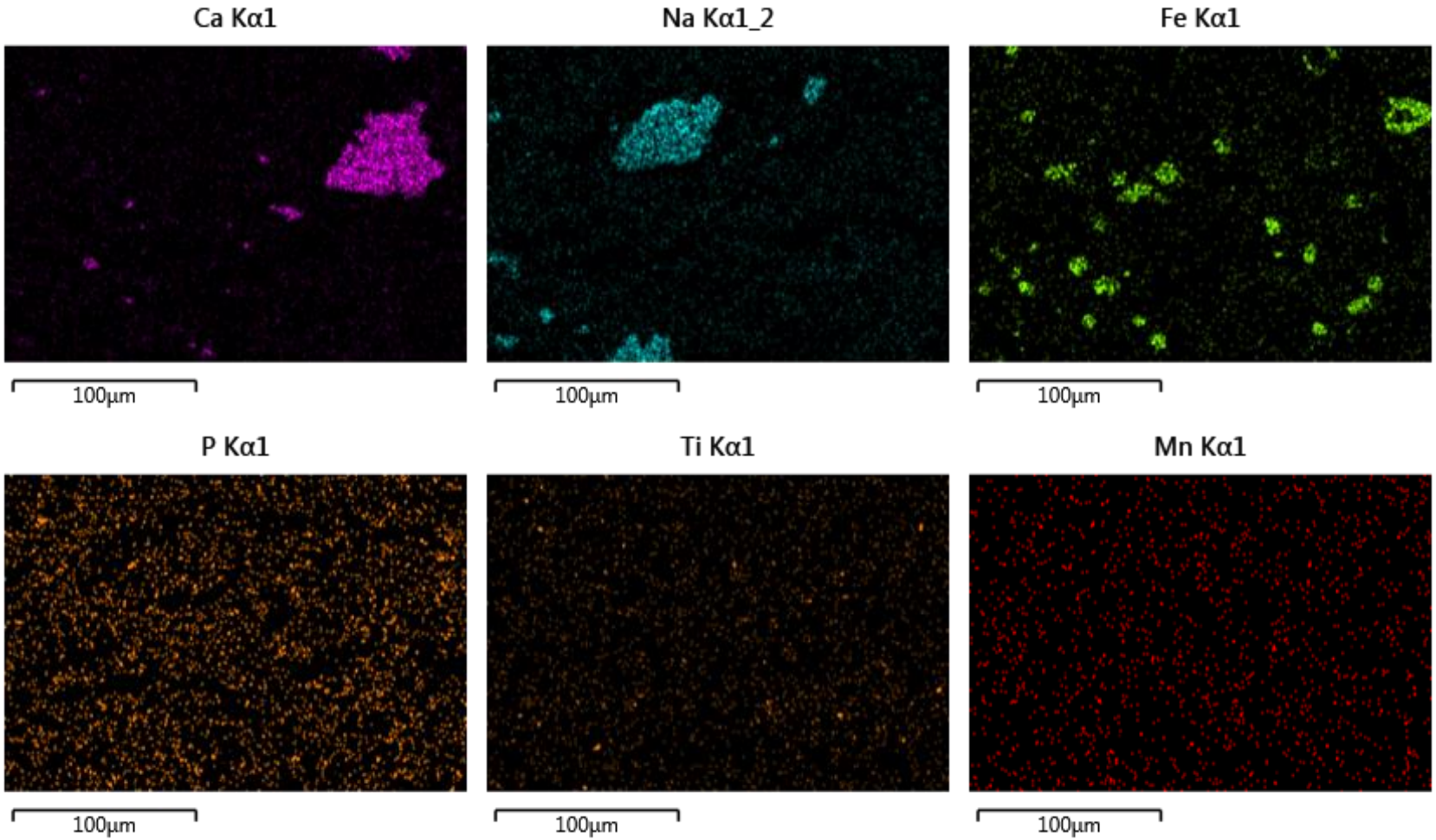

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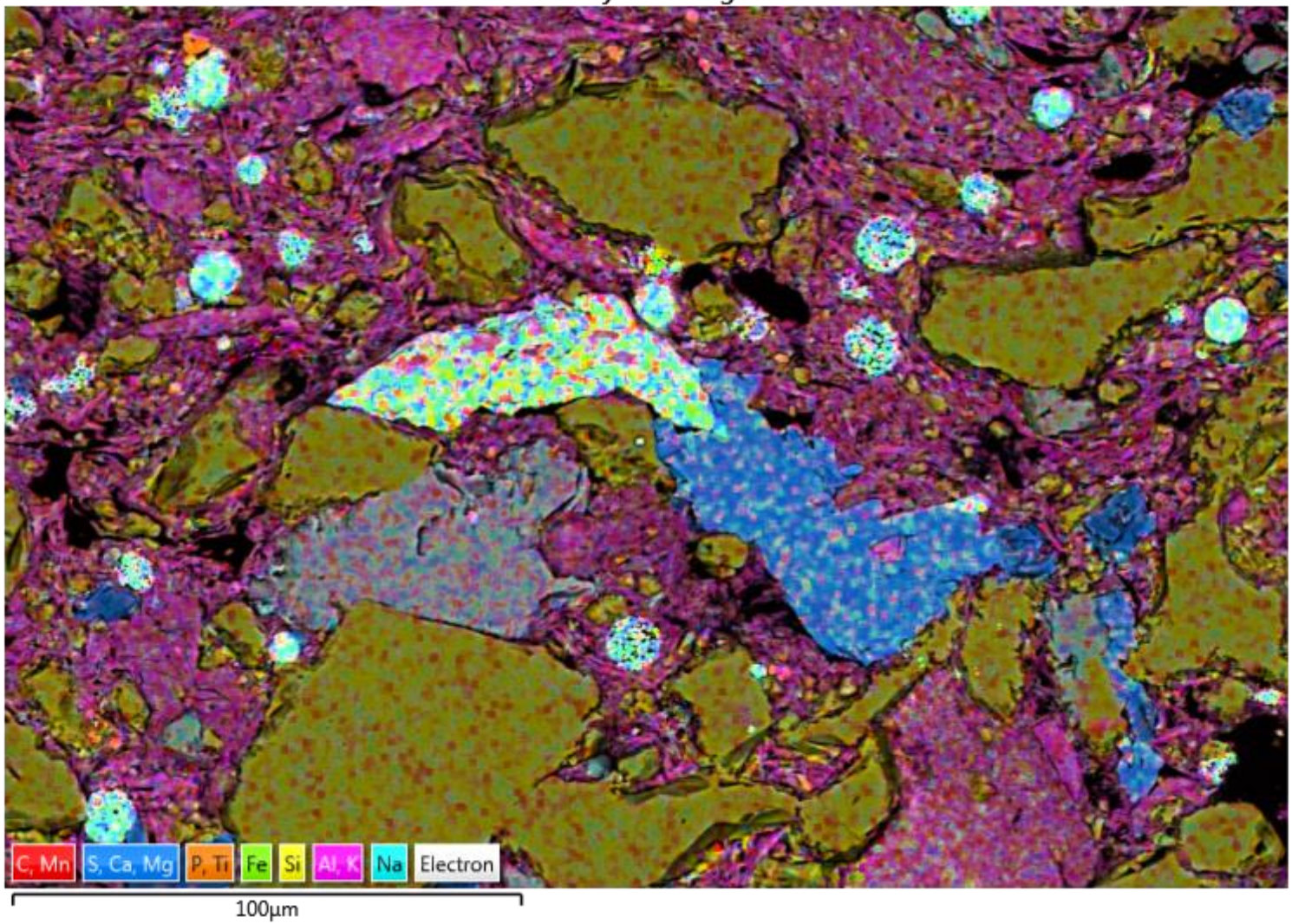

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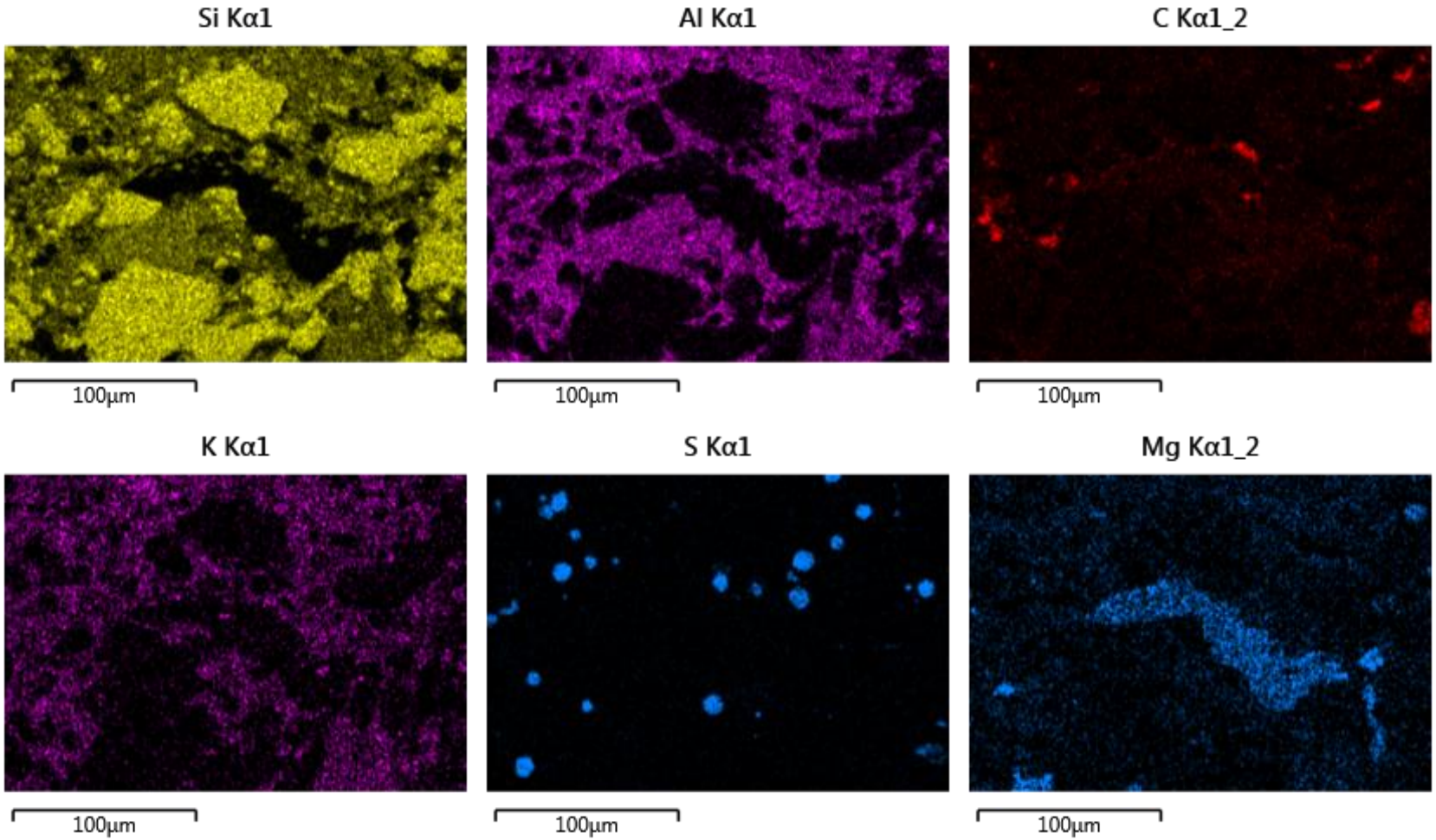

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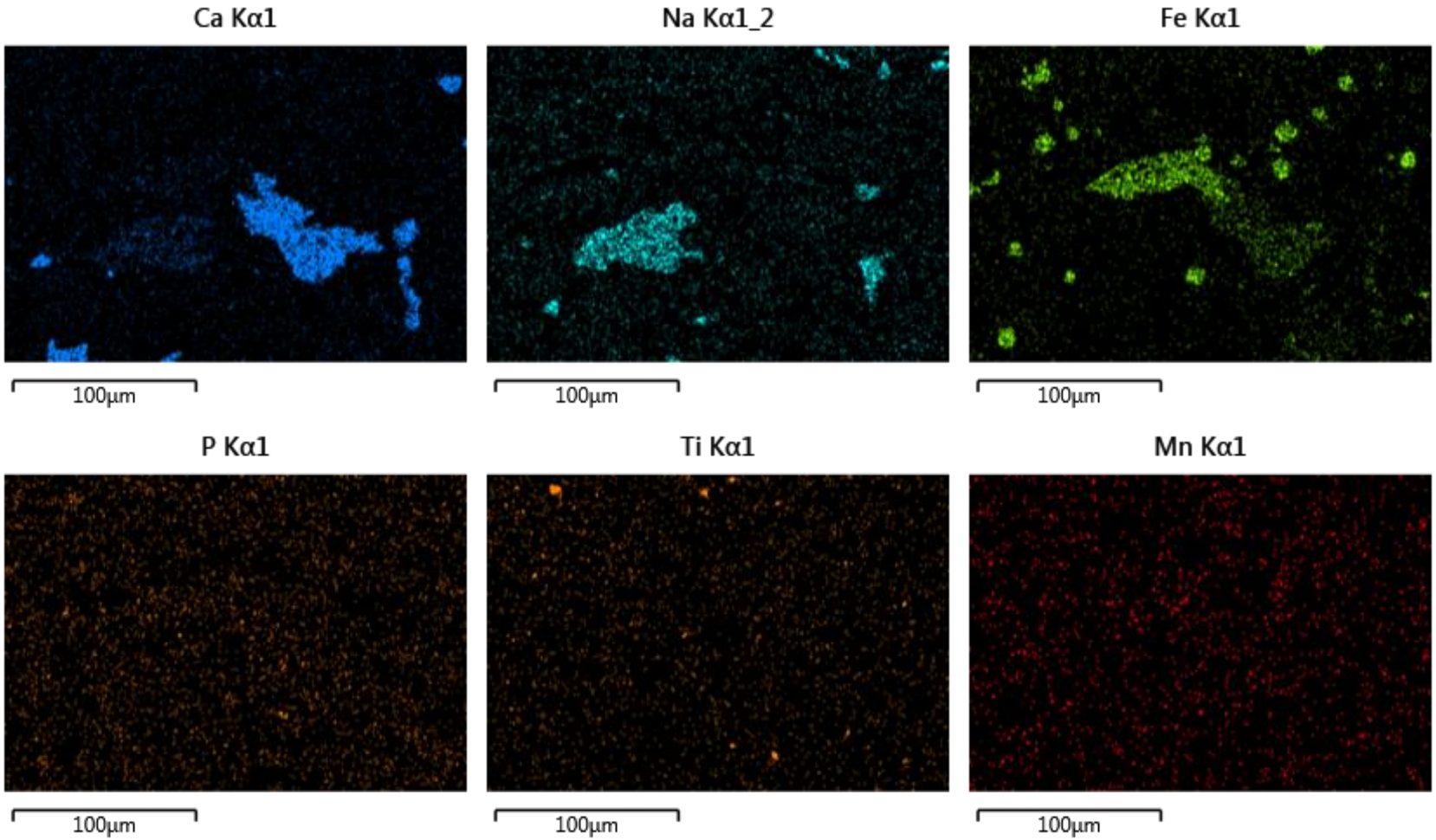

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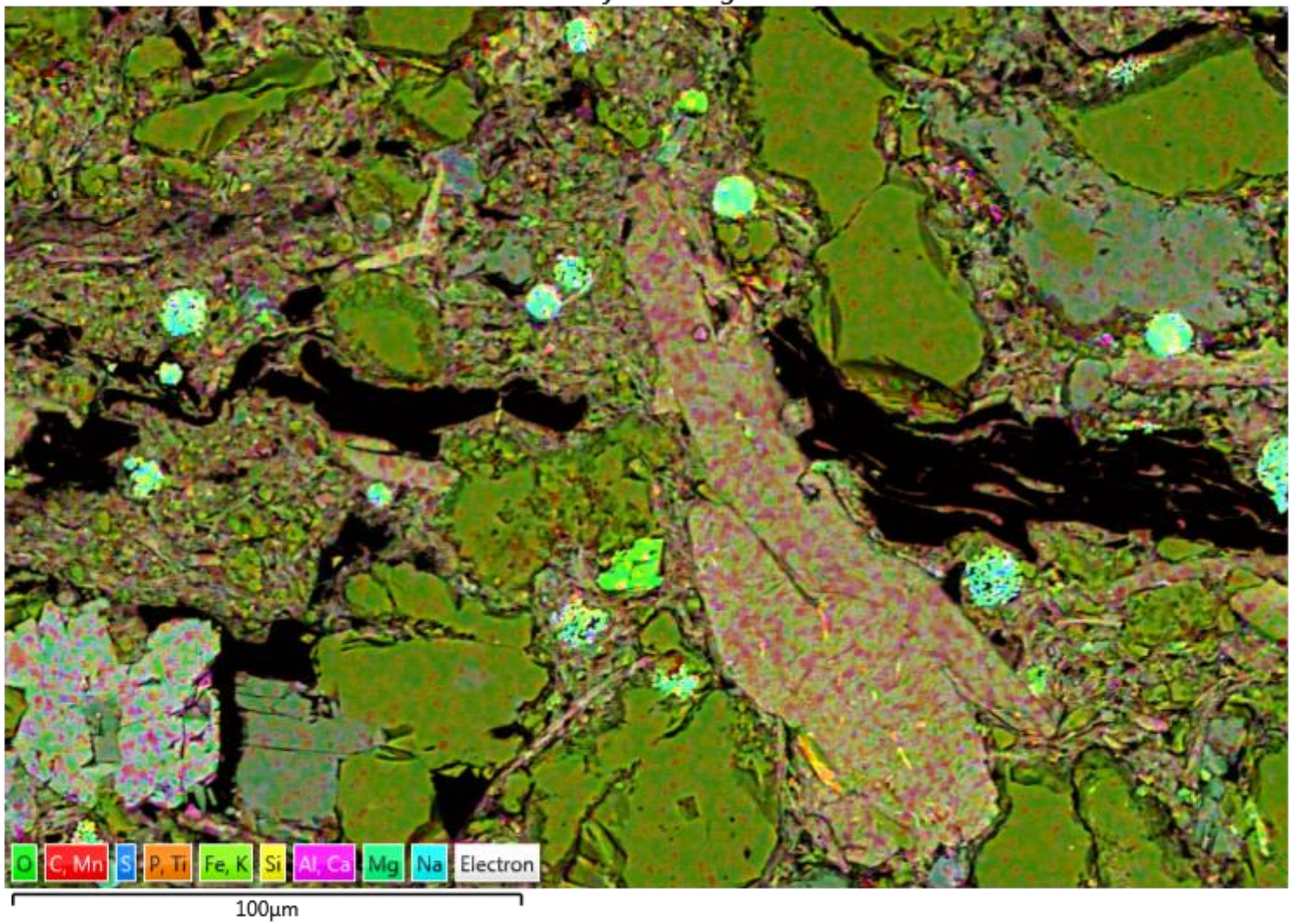

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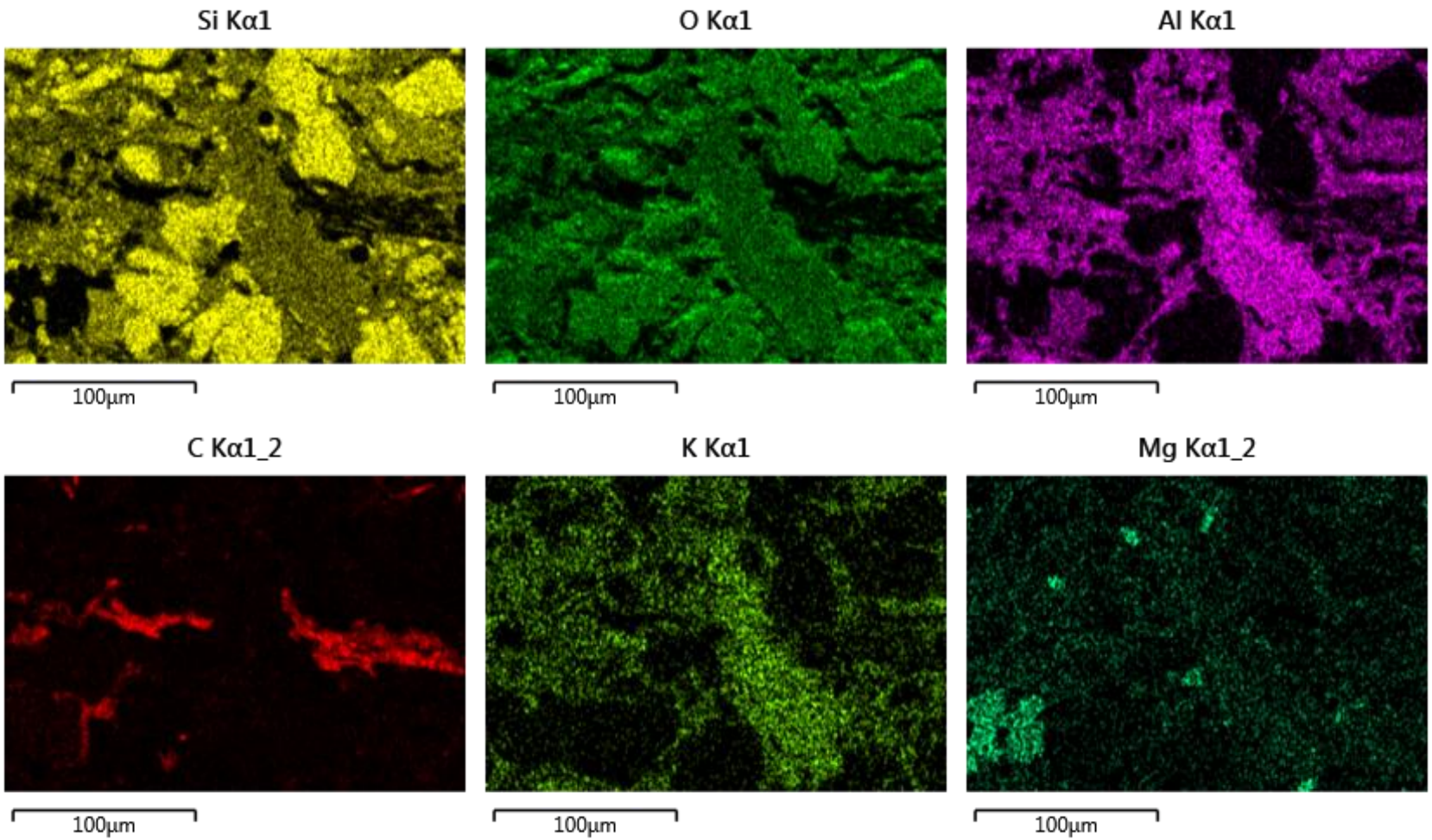

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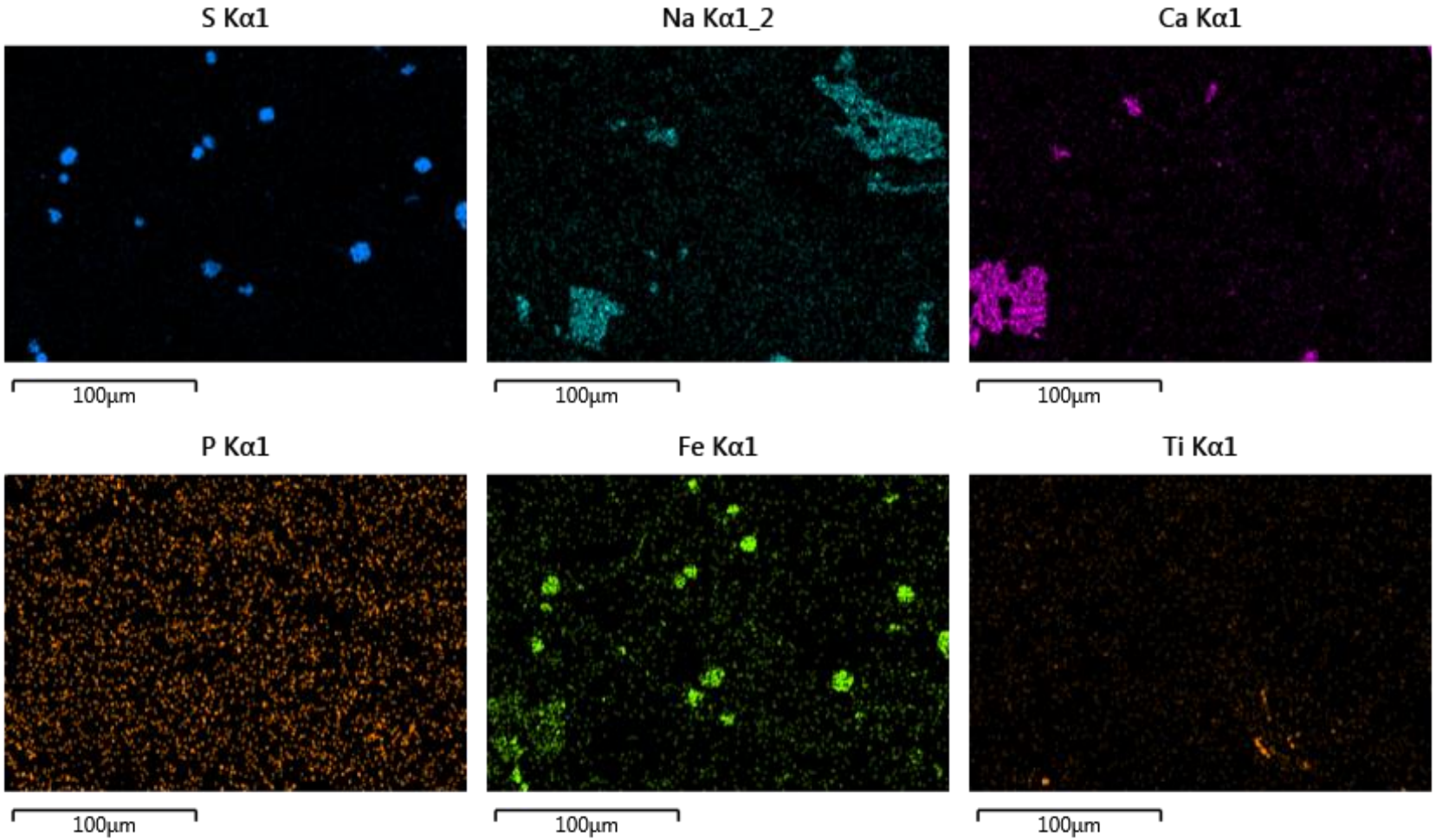

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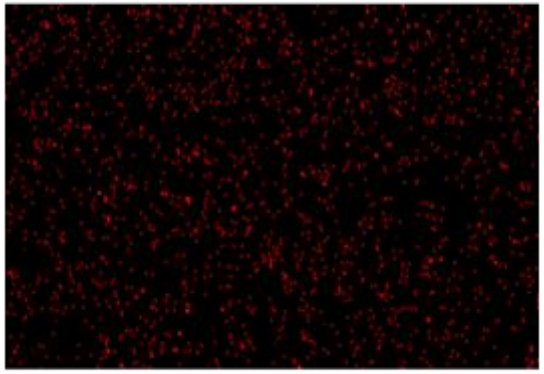
Mn Kα1



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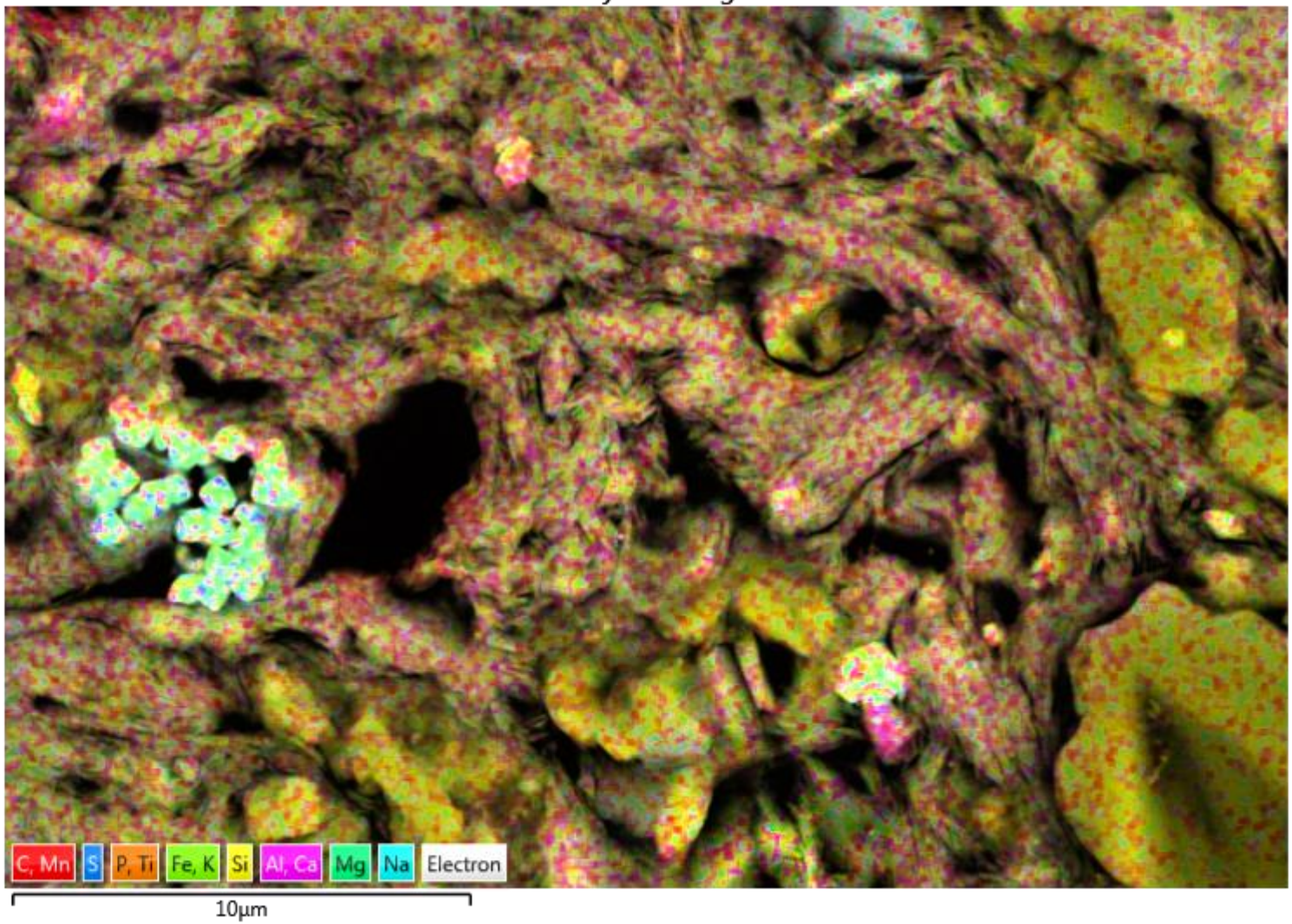

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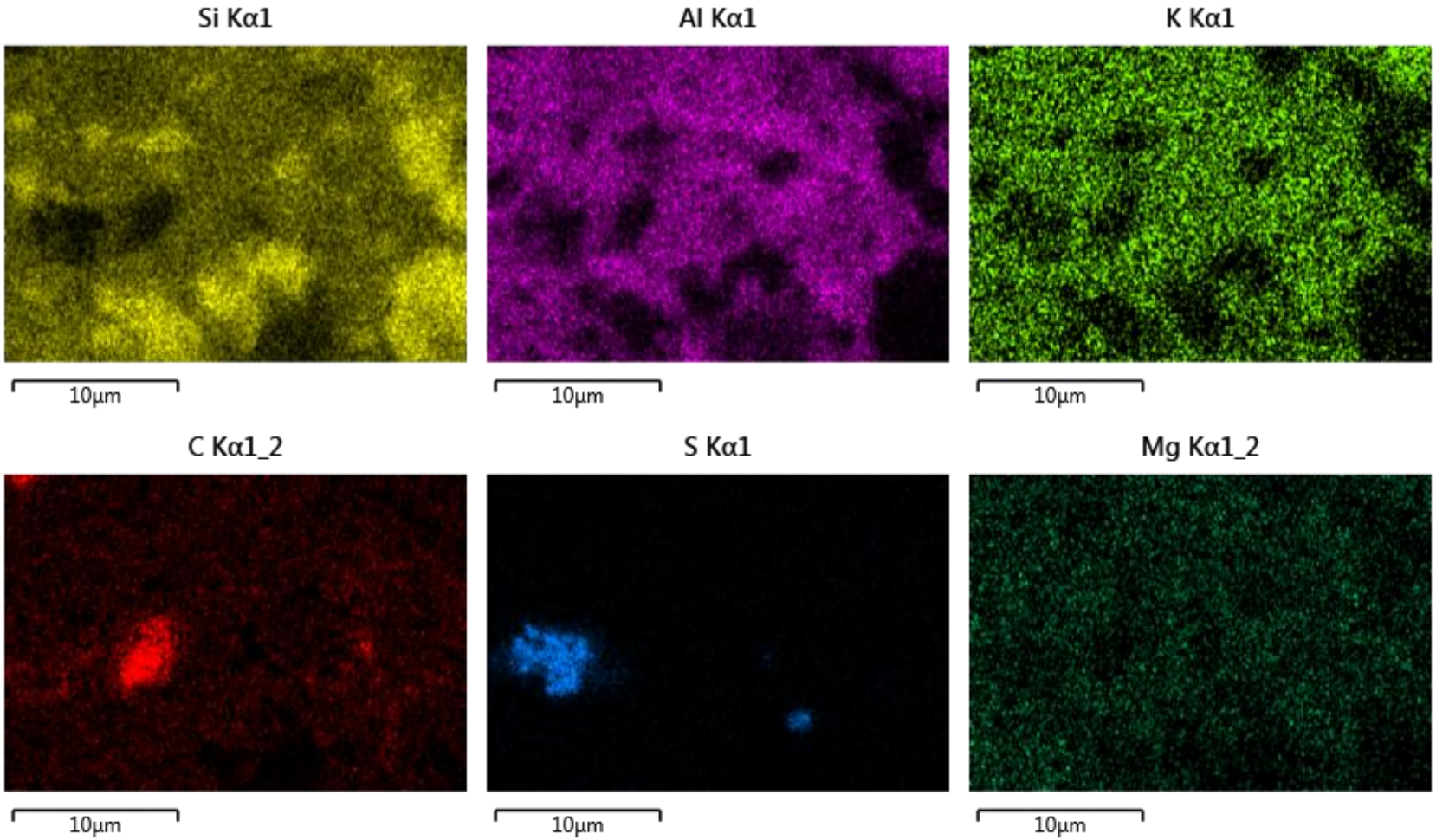

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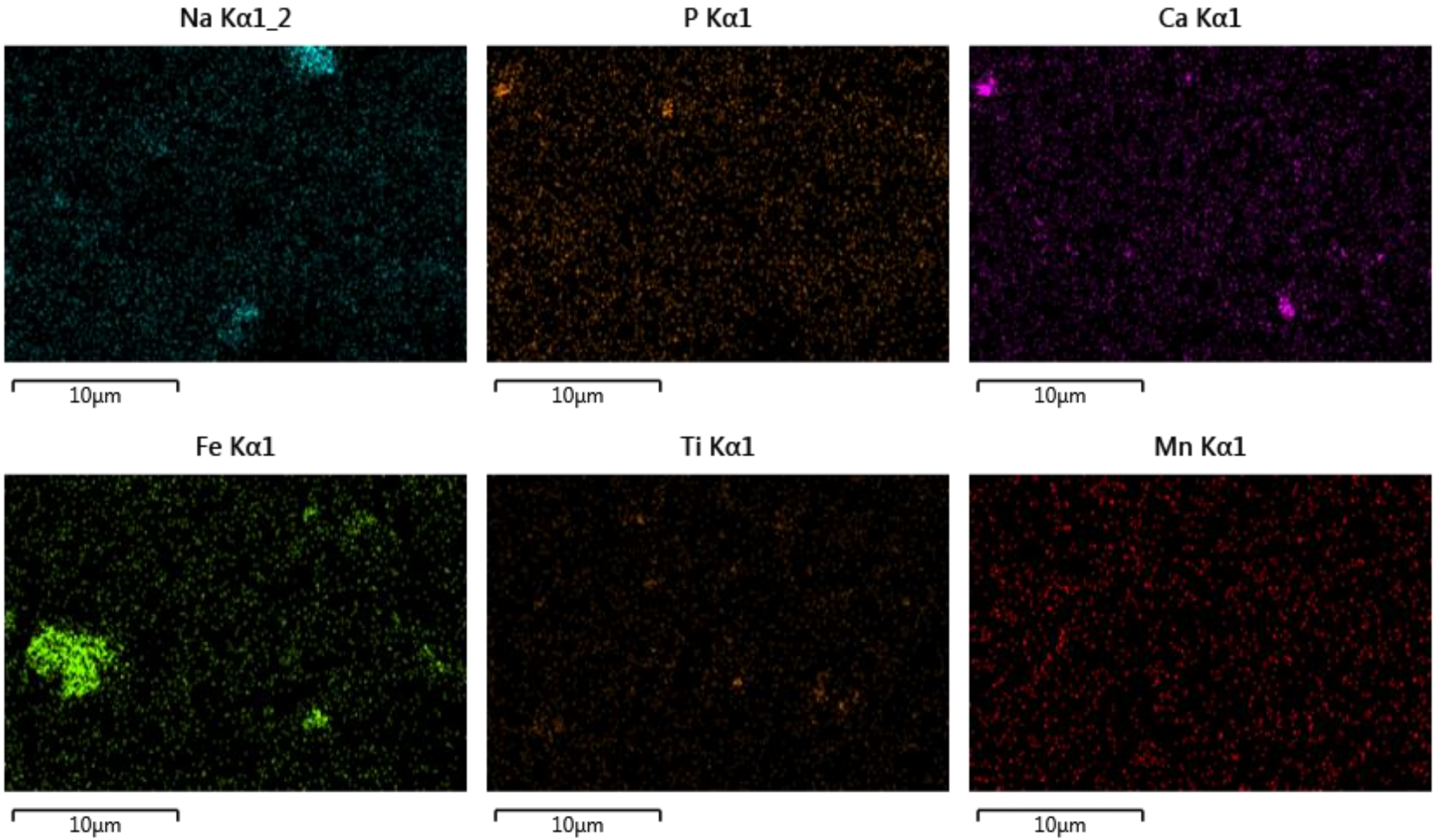

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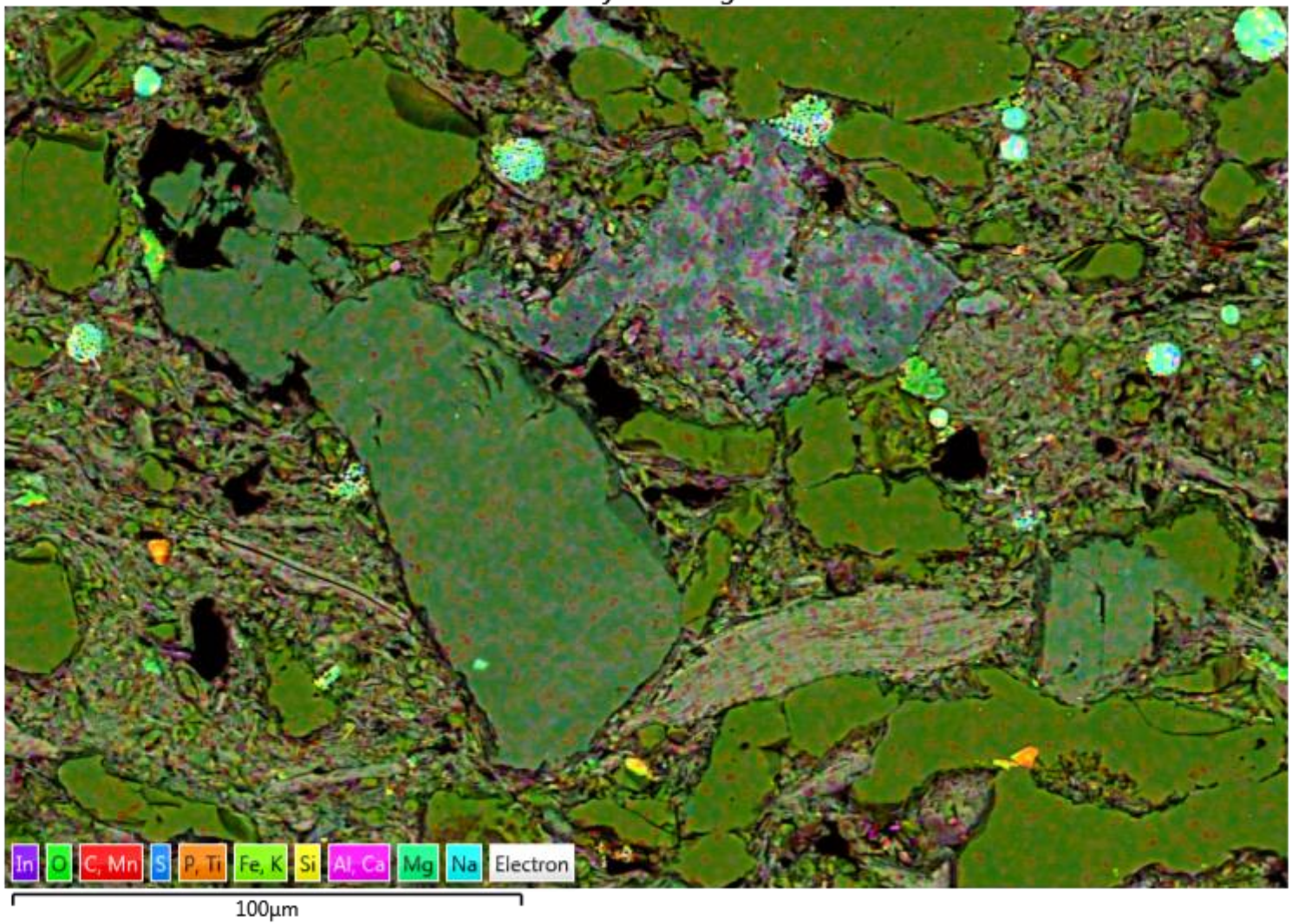

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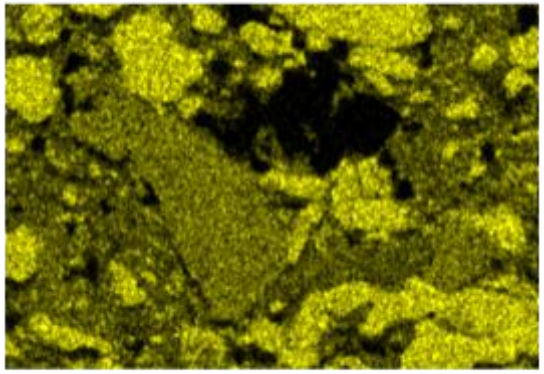
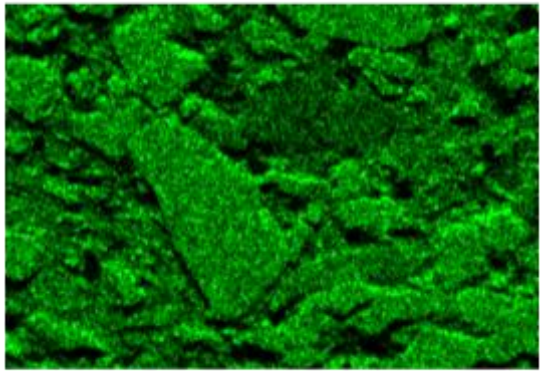
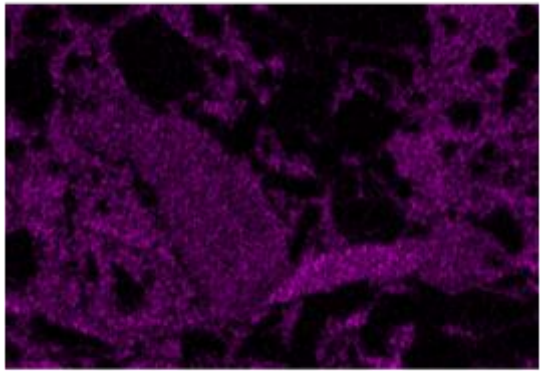
Si Kα1



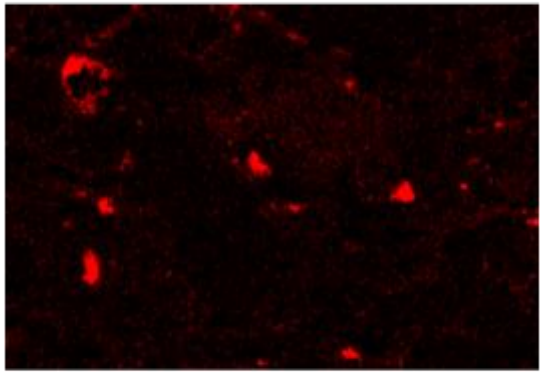
O Kα1



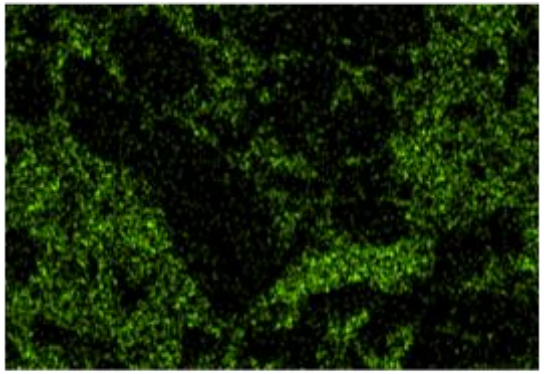
Al Kα1



C Kα1_2



K Kα1



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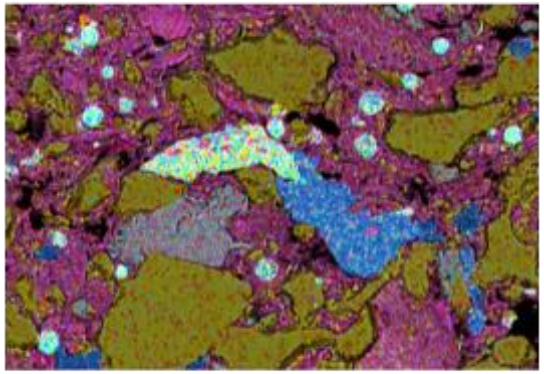

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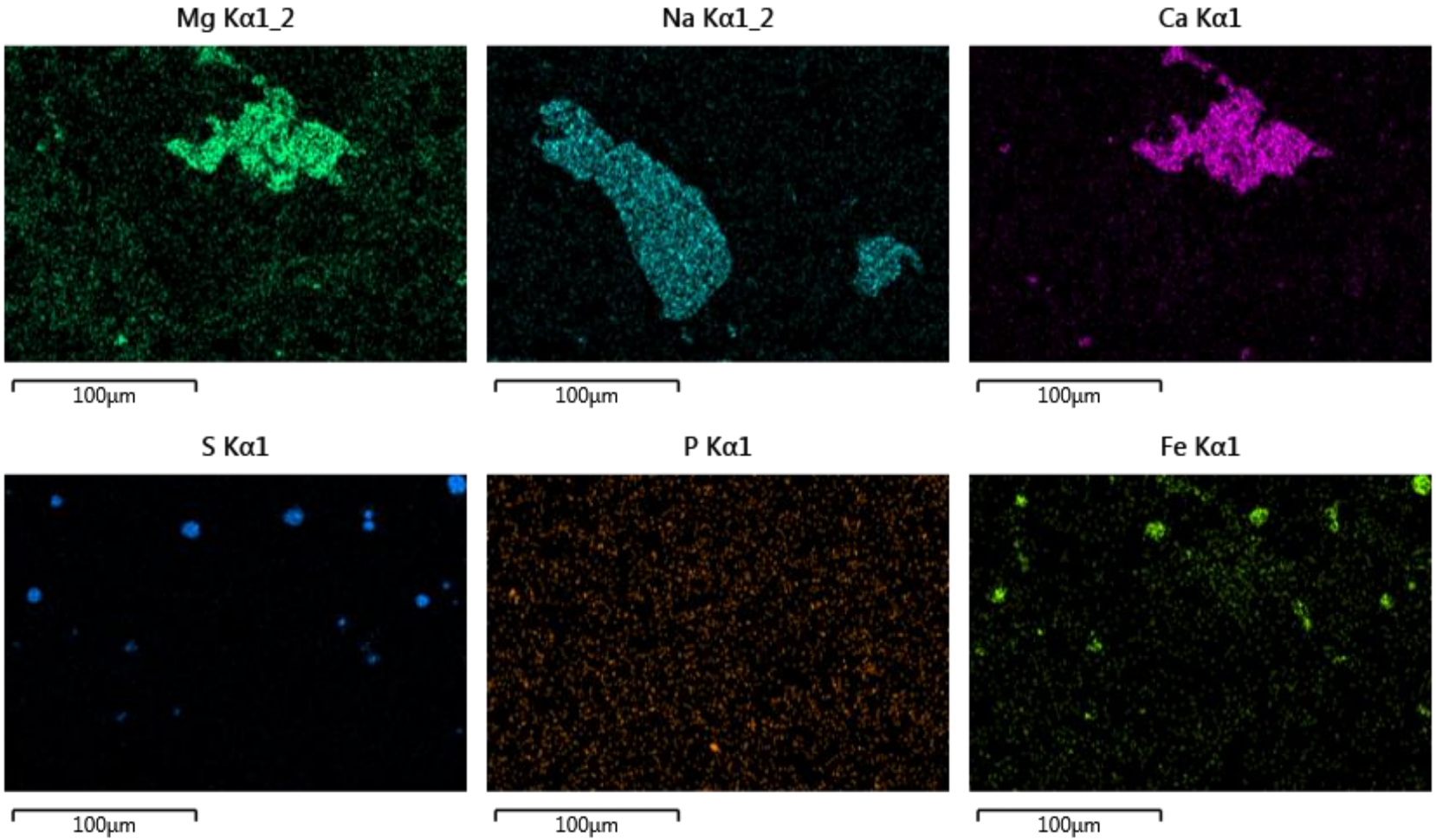

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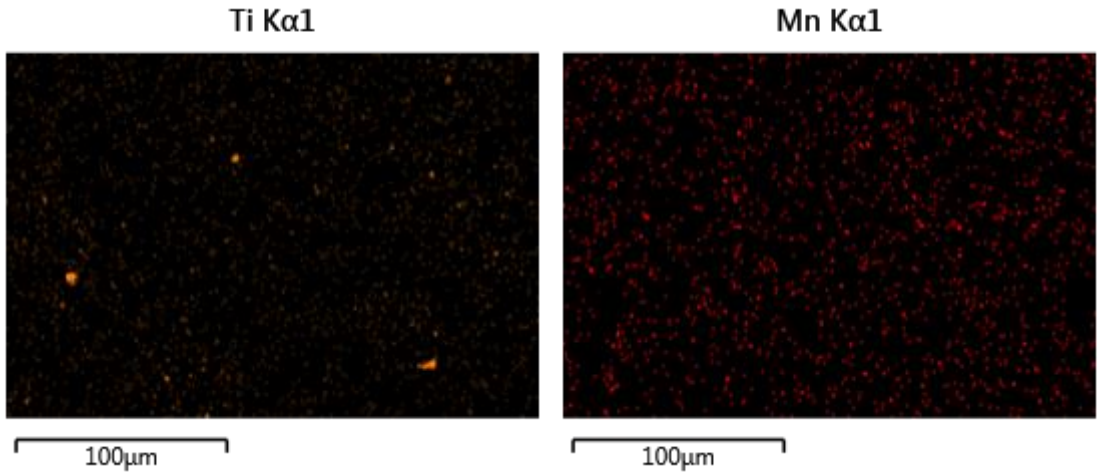
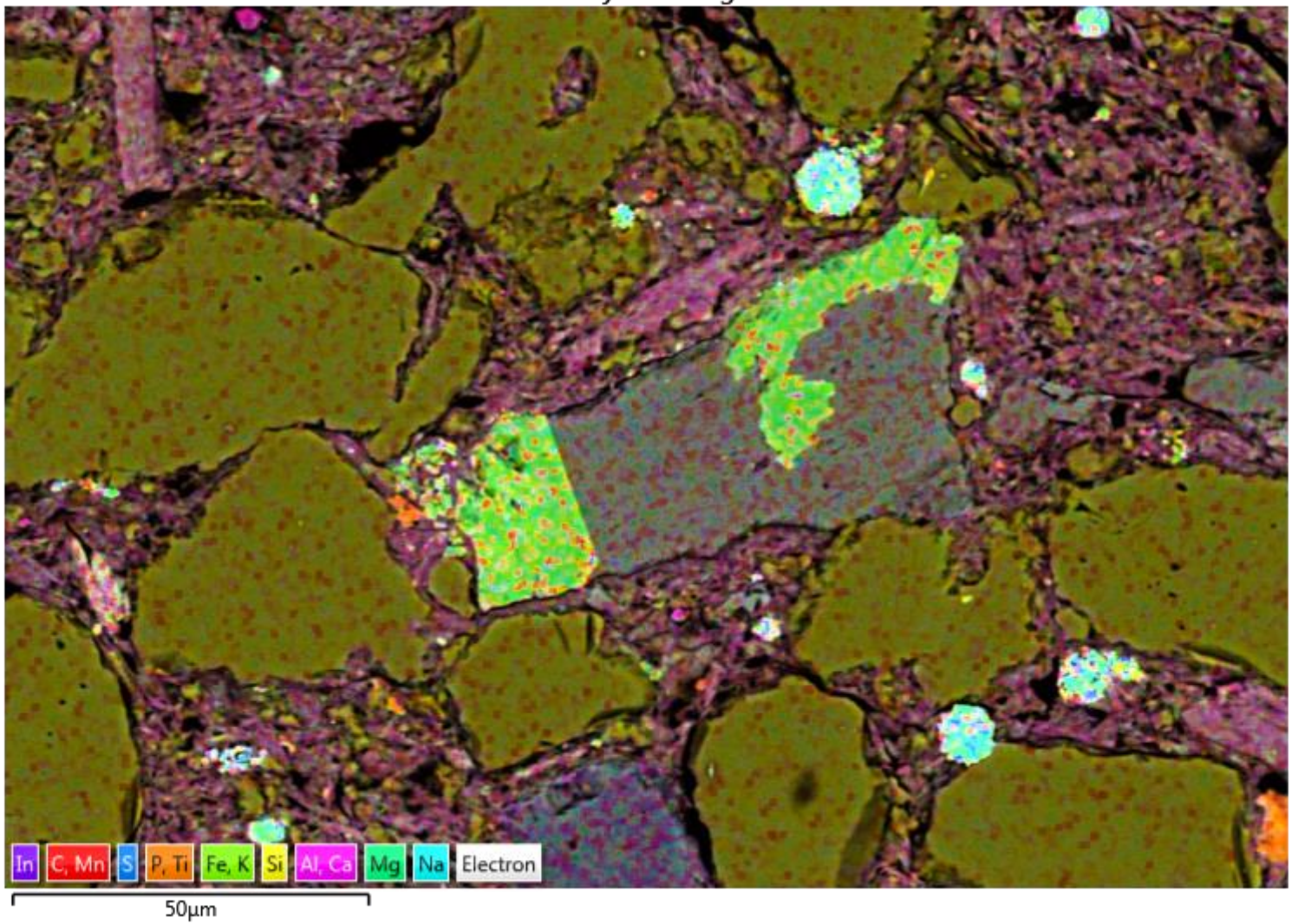

Ti Kα1
Mn Kα1
100µm
100µm

EDS Layered Image 3



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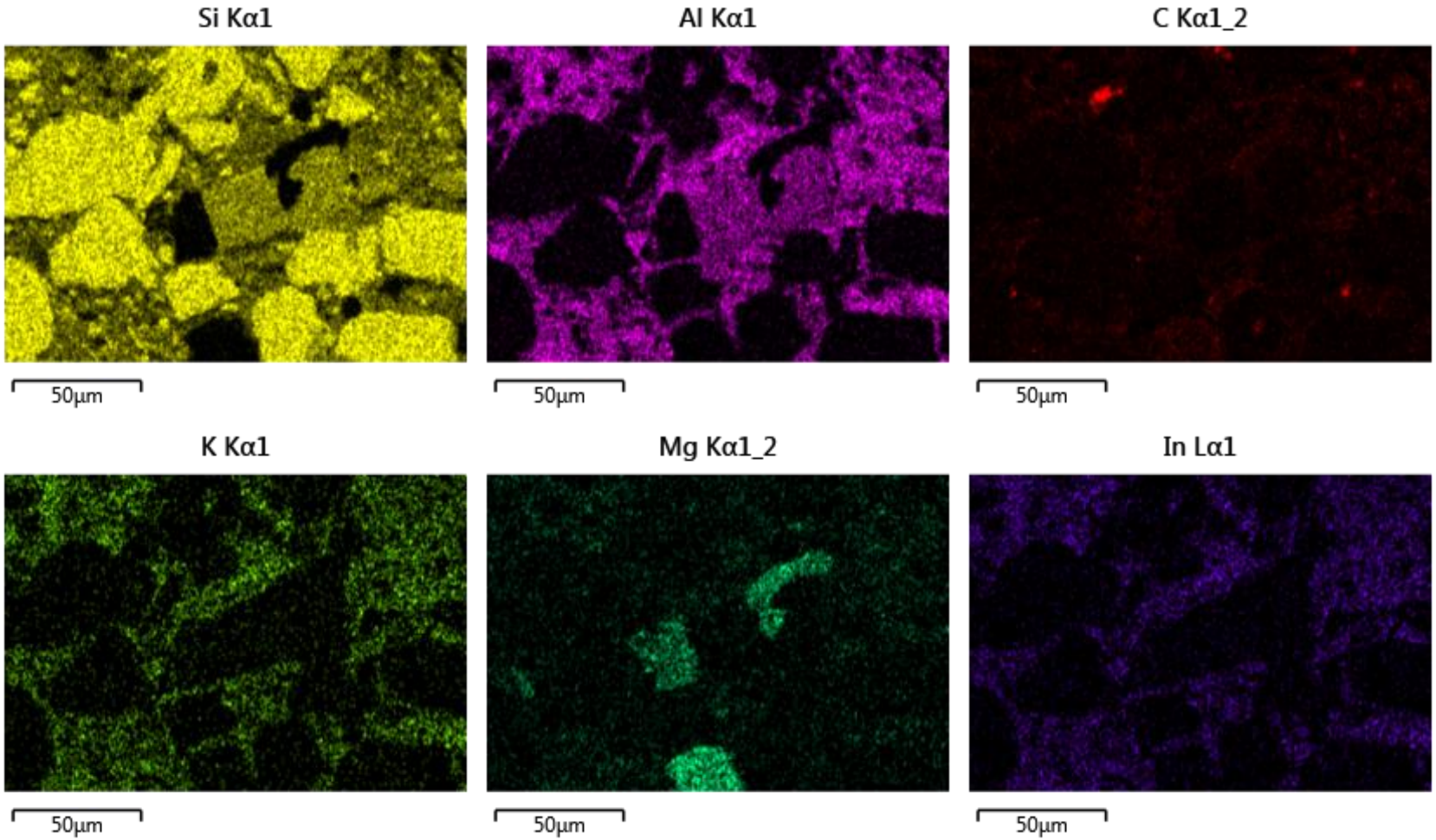

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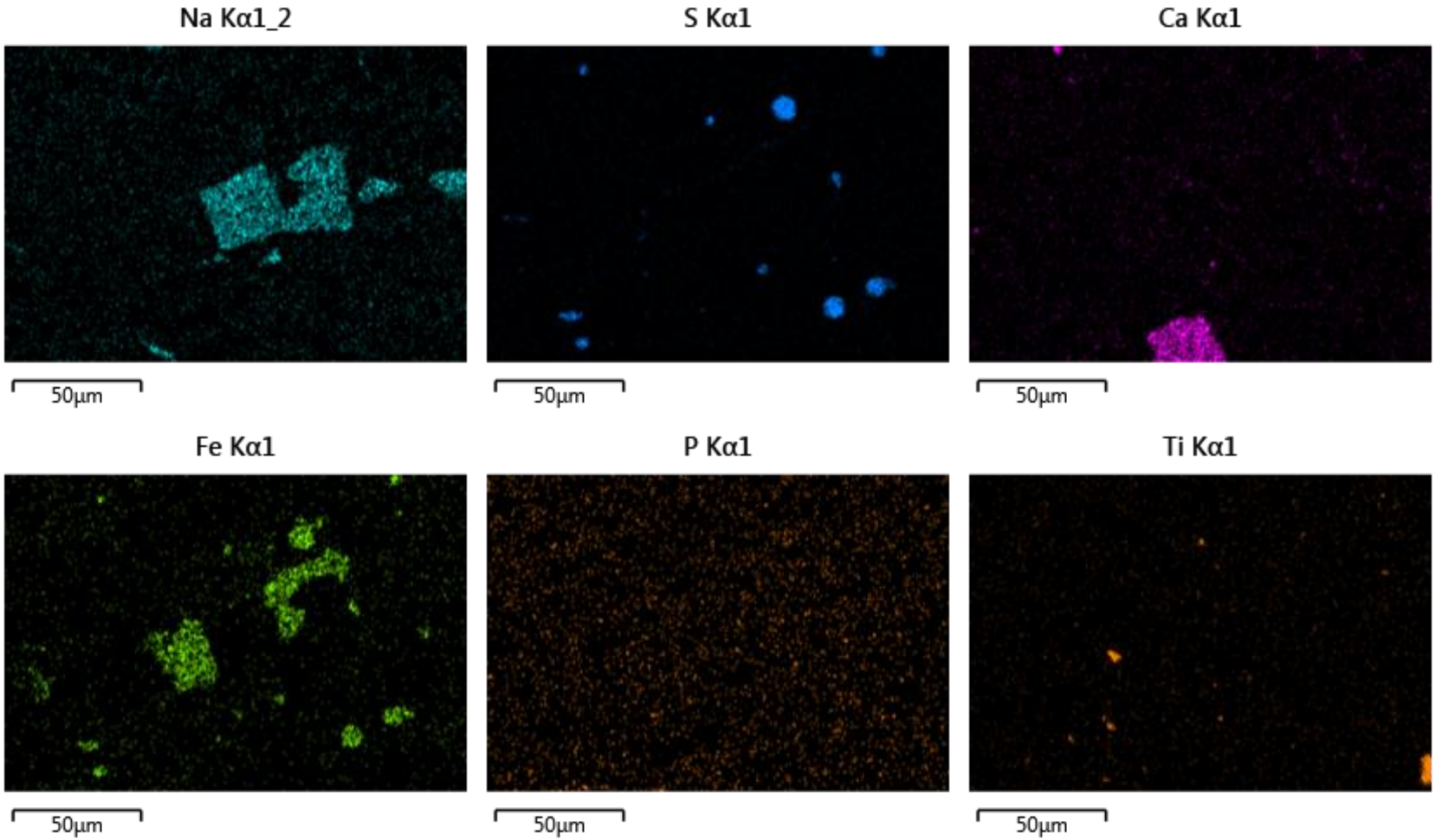
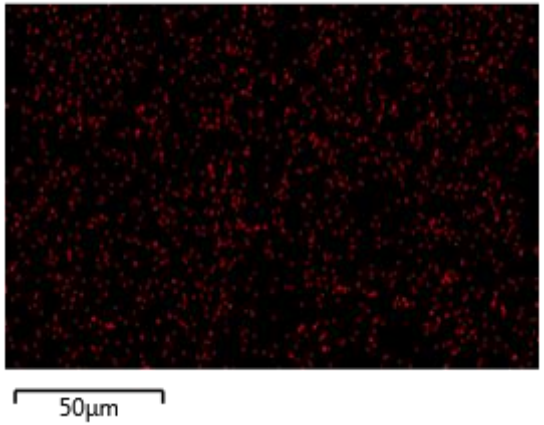

Na Kα1_2
S Kα1
Ca Kα1
50µm
50µm
50µm
Fe Kα1
P Kα1
Ti Kα1
50µm
50µm
50µm

Mn Kα1



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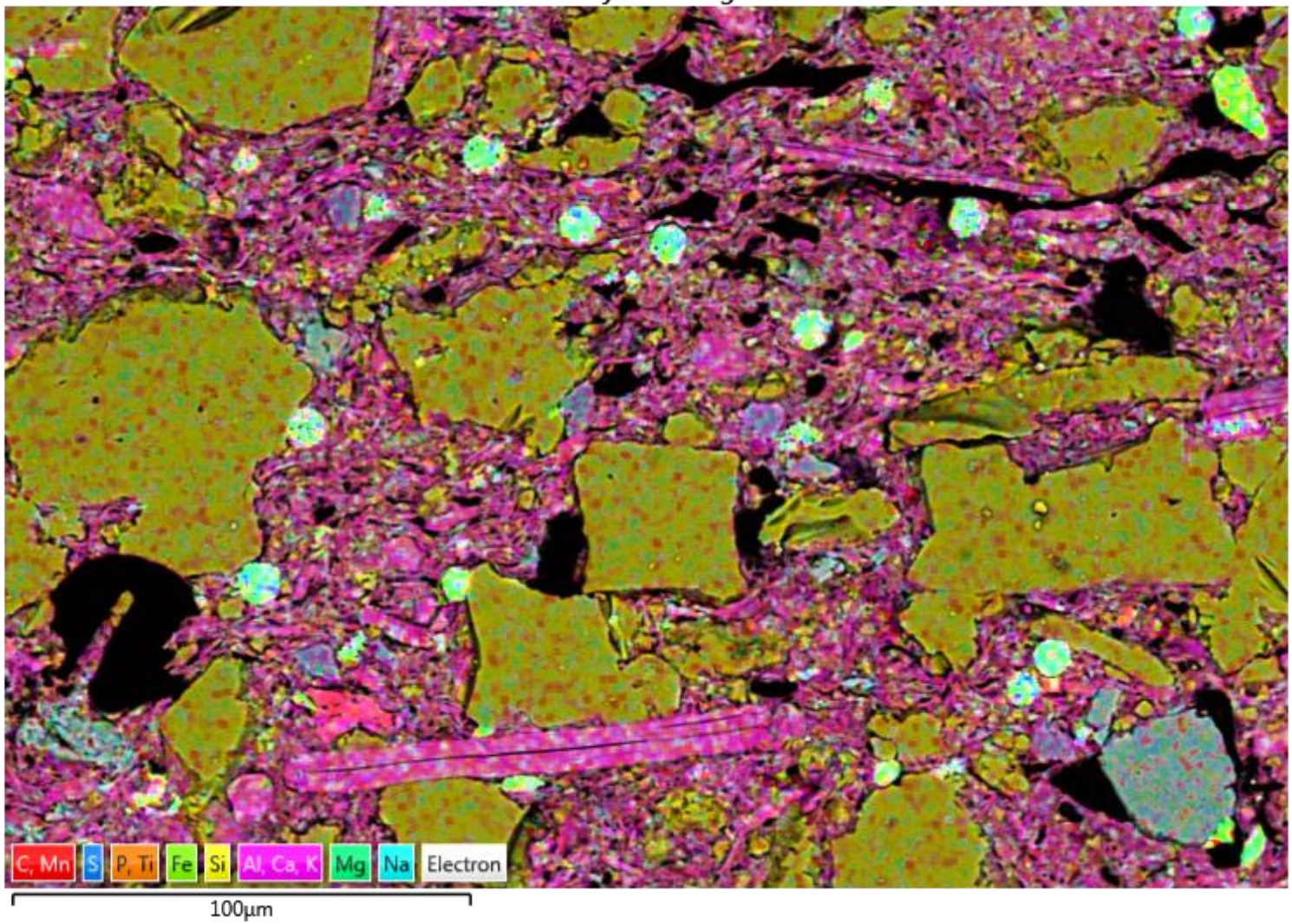

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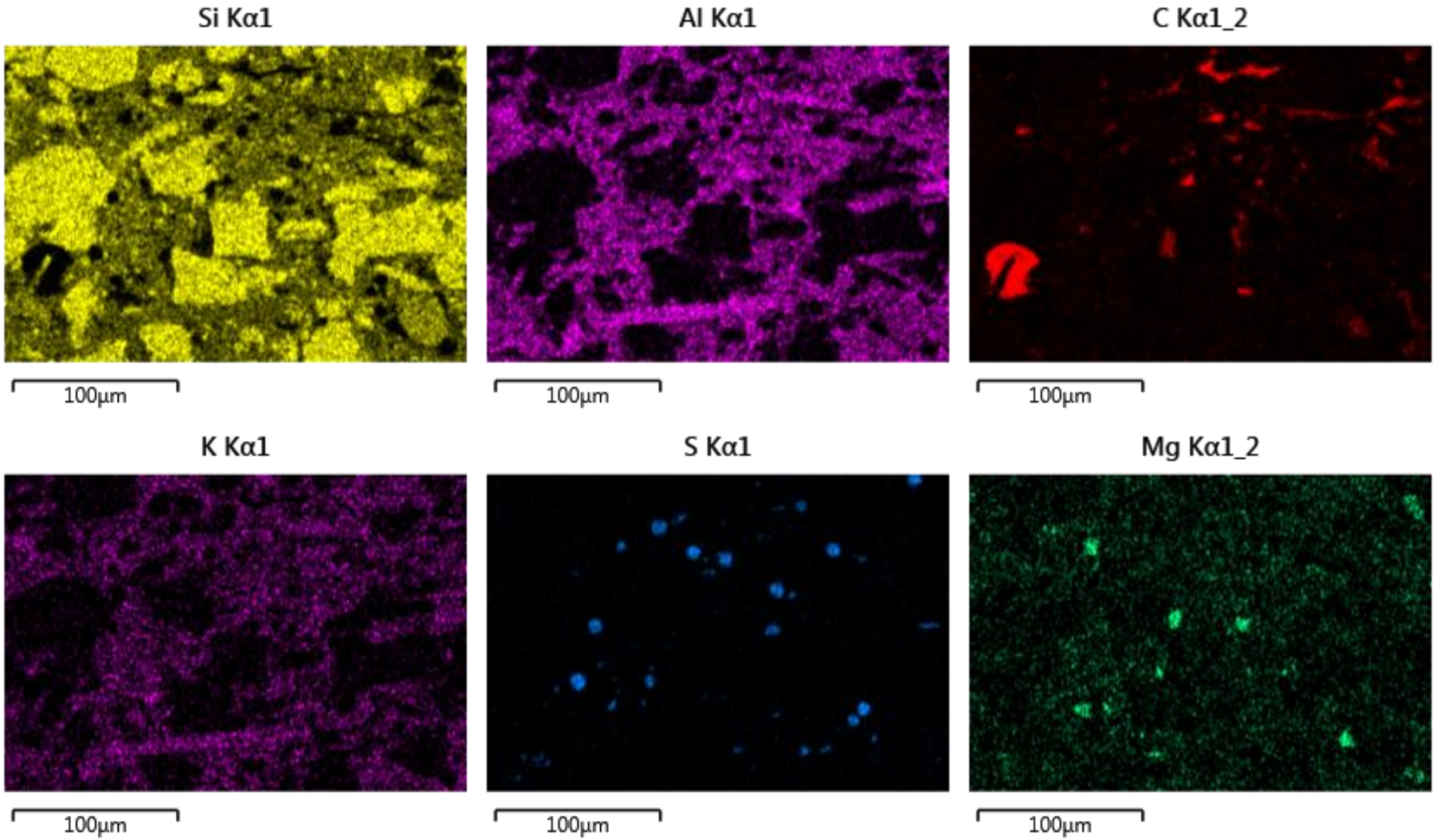

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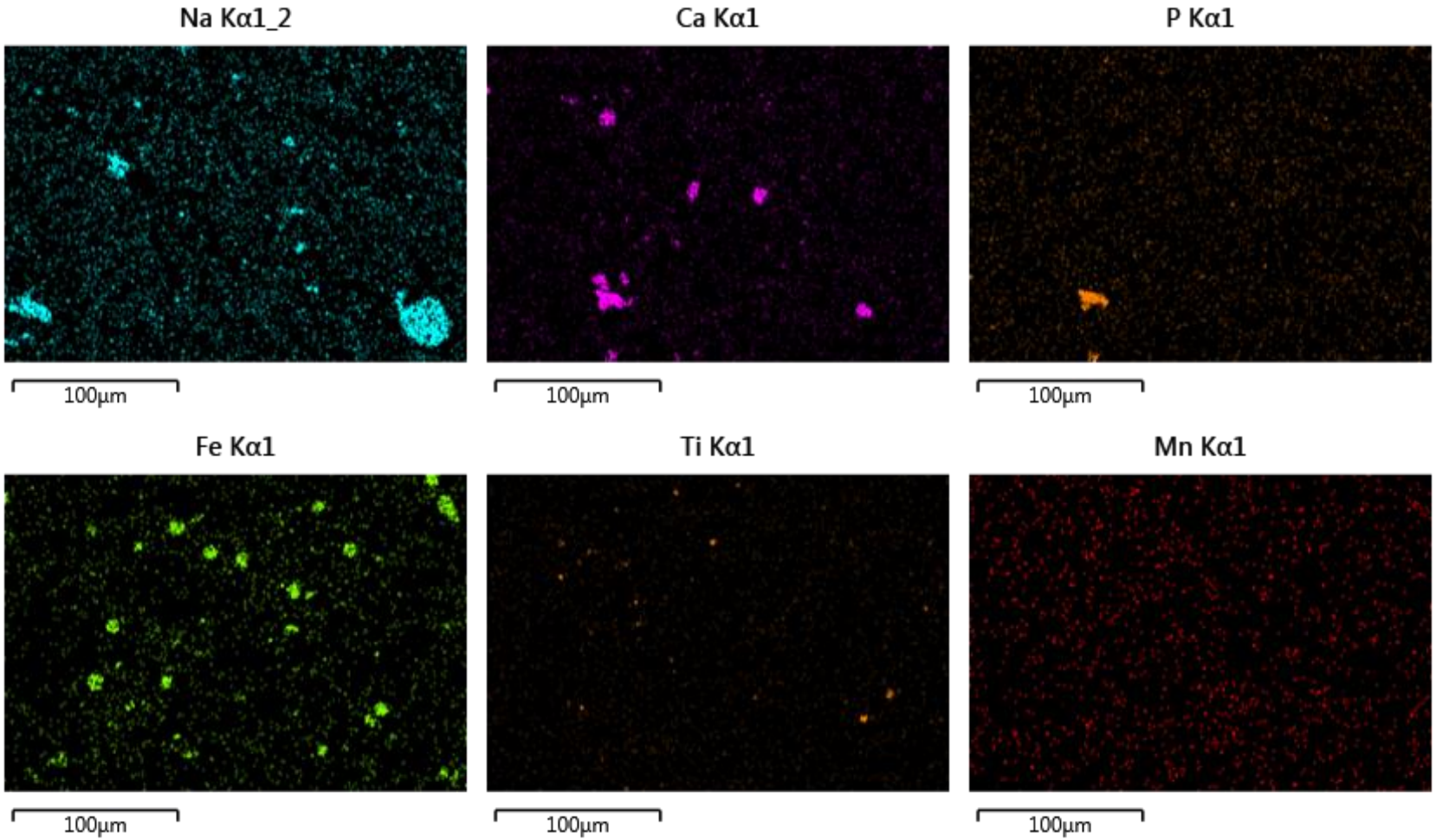

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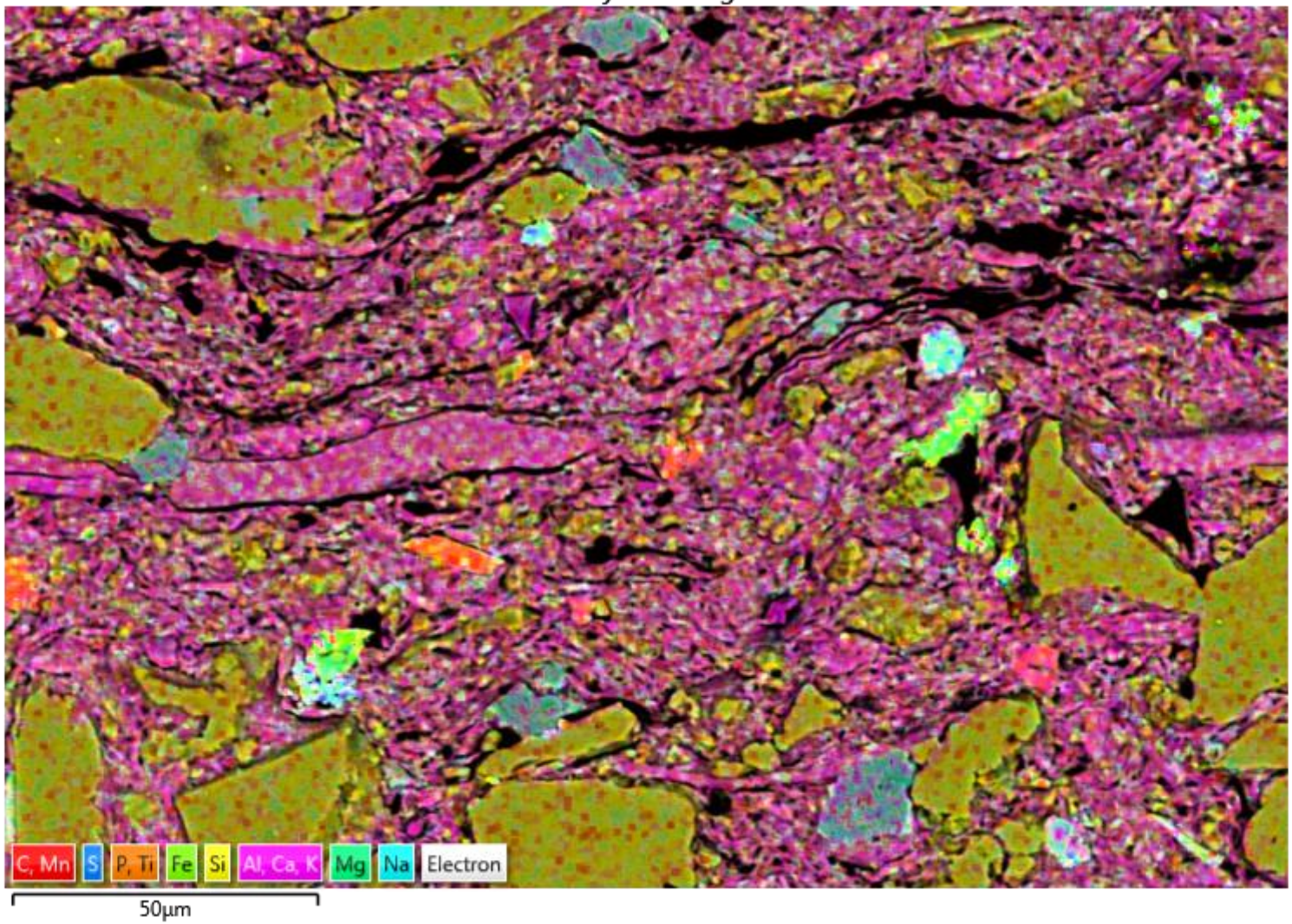

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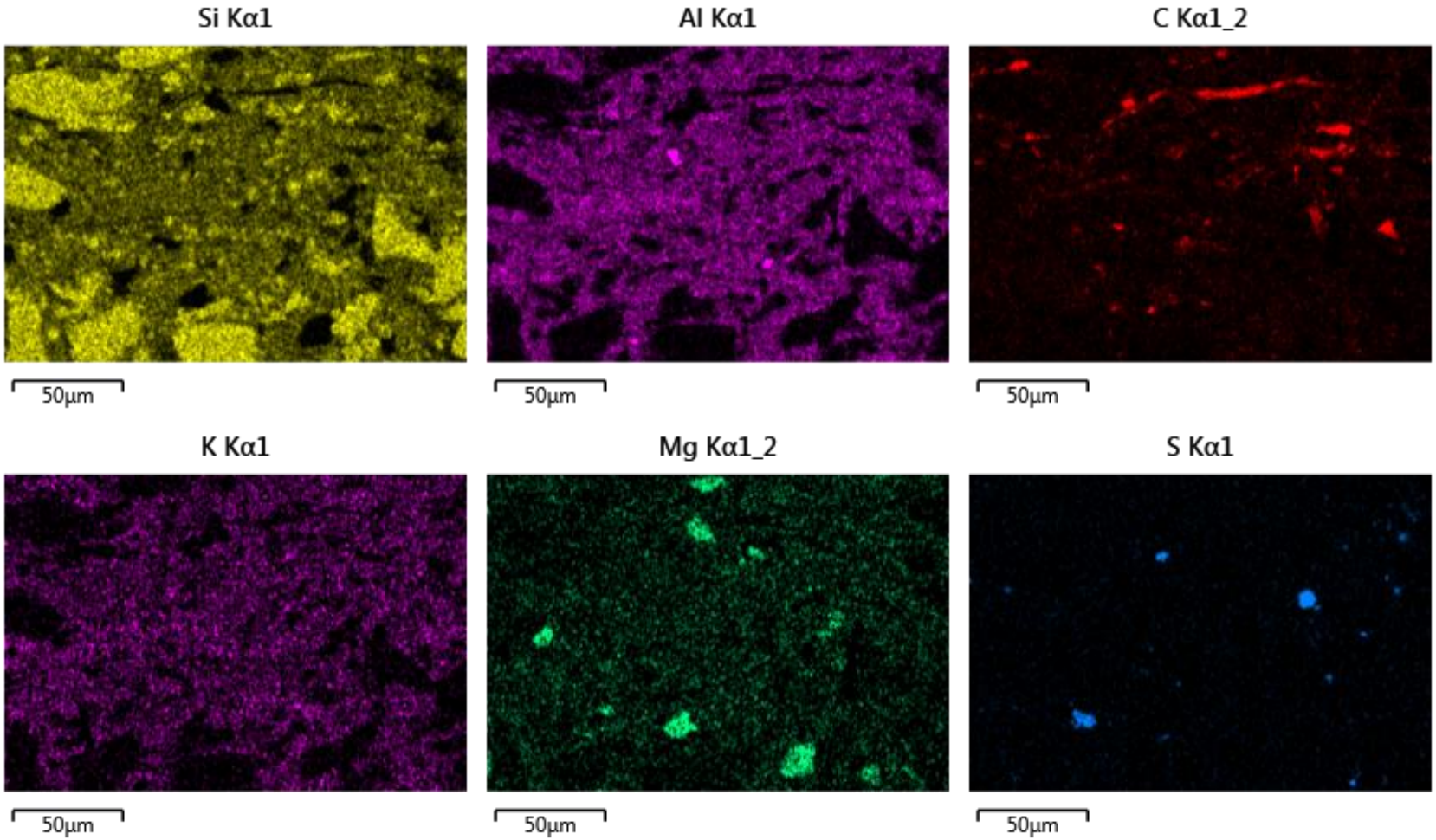

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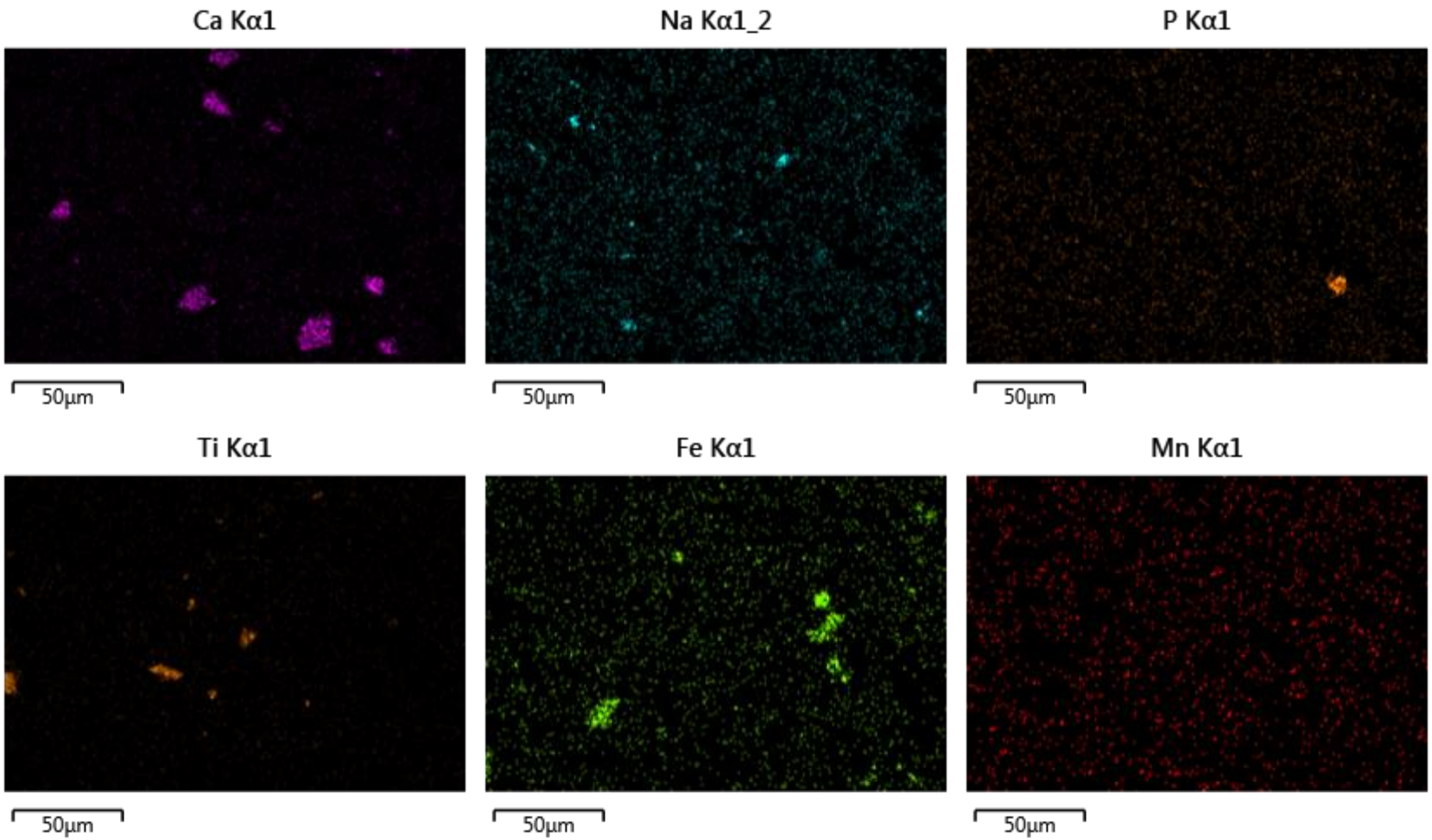

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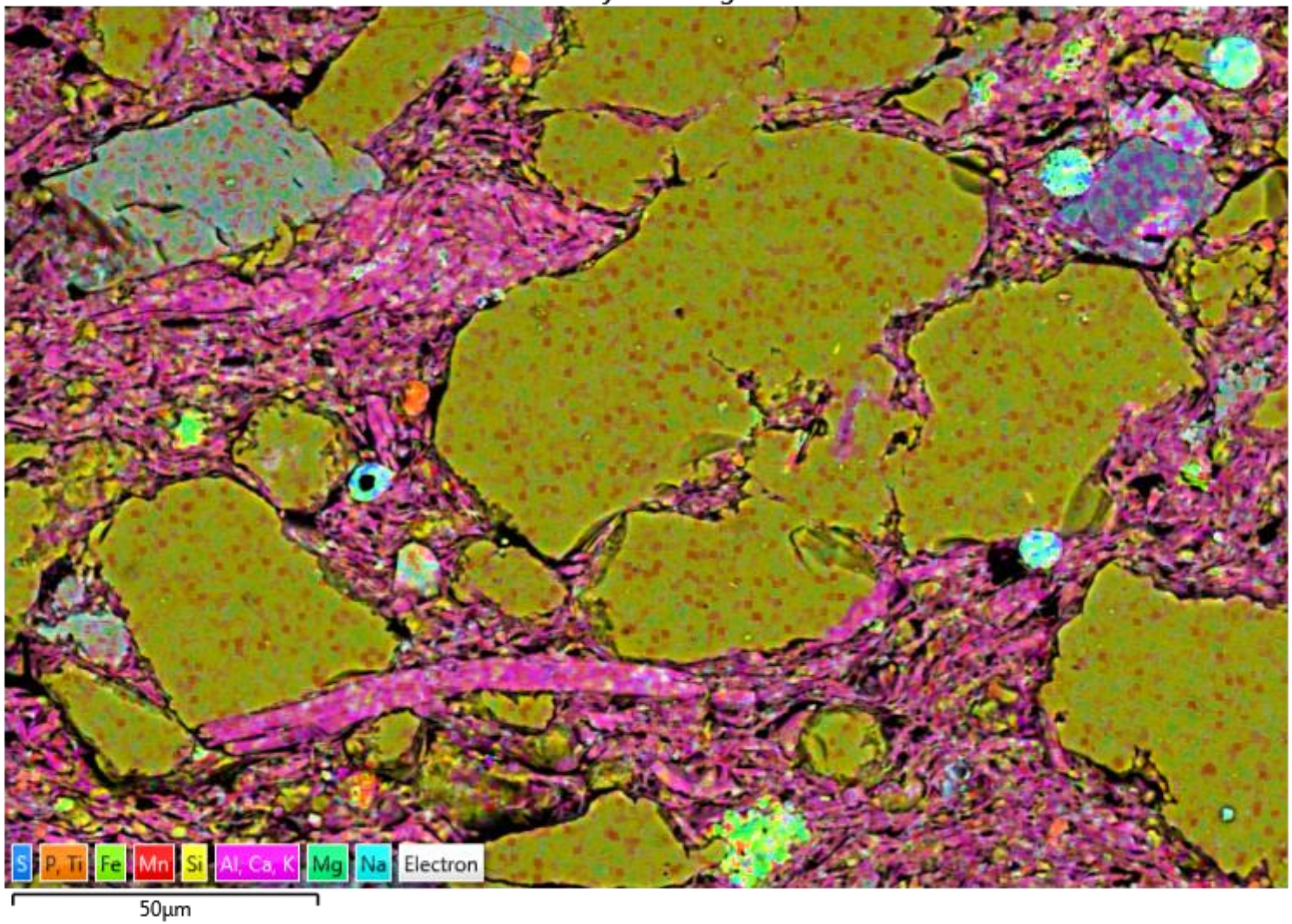

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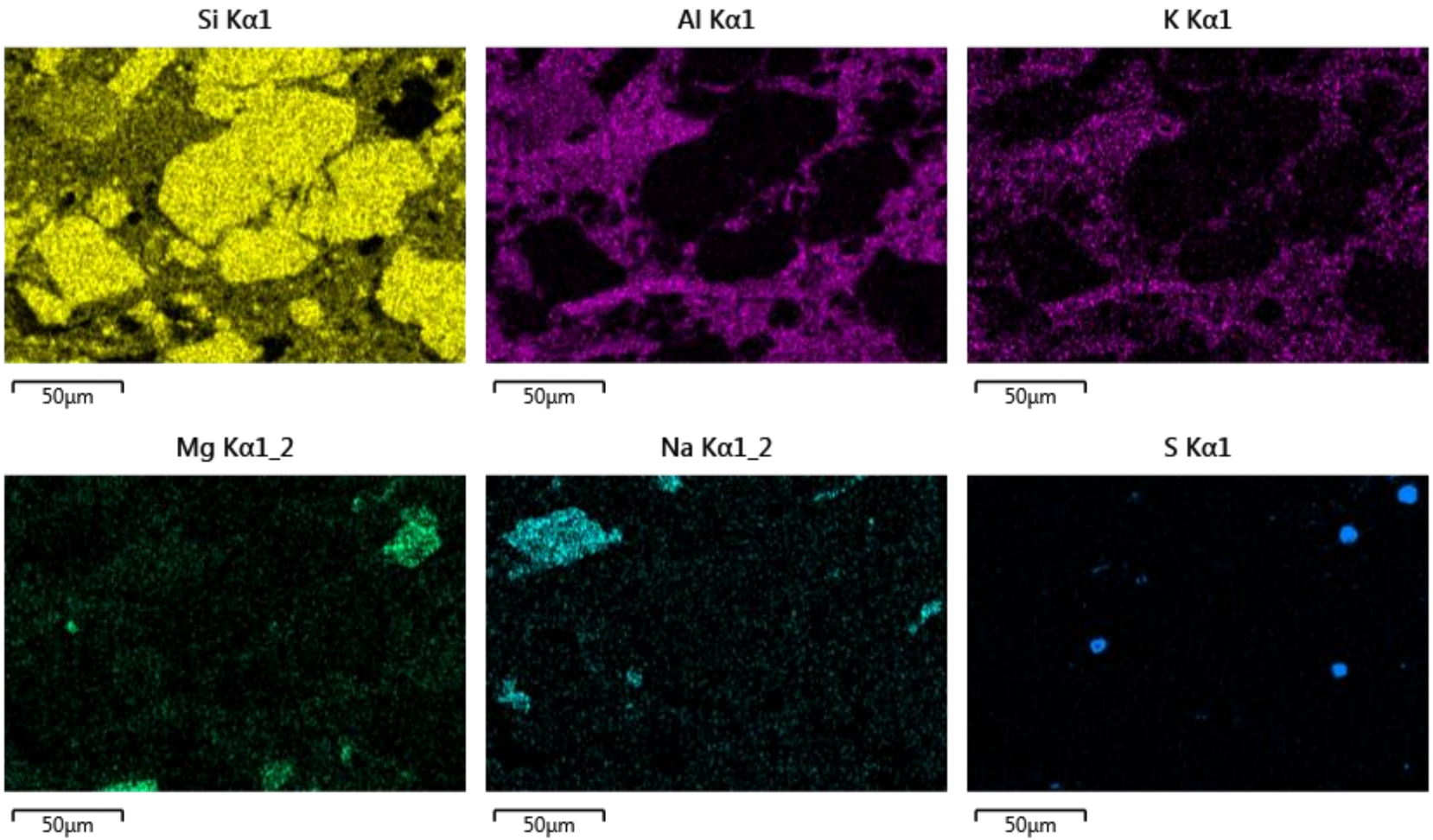

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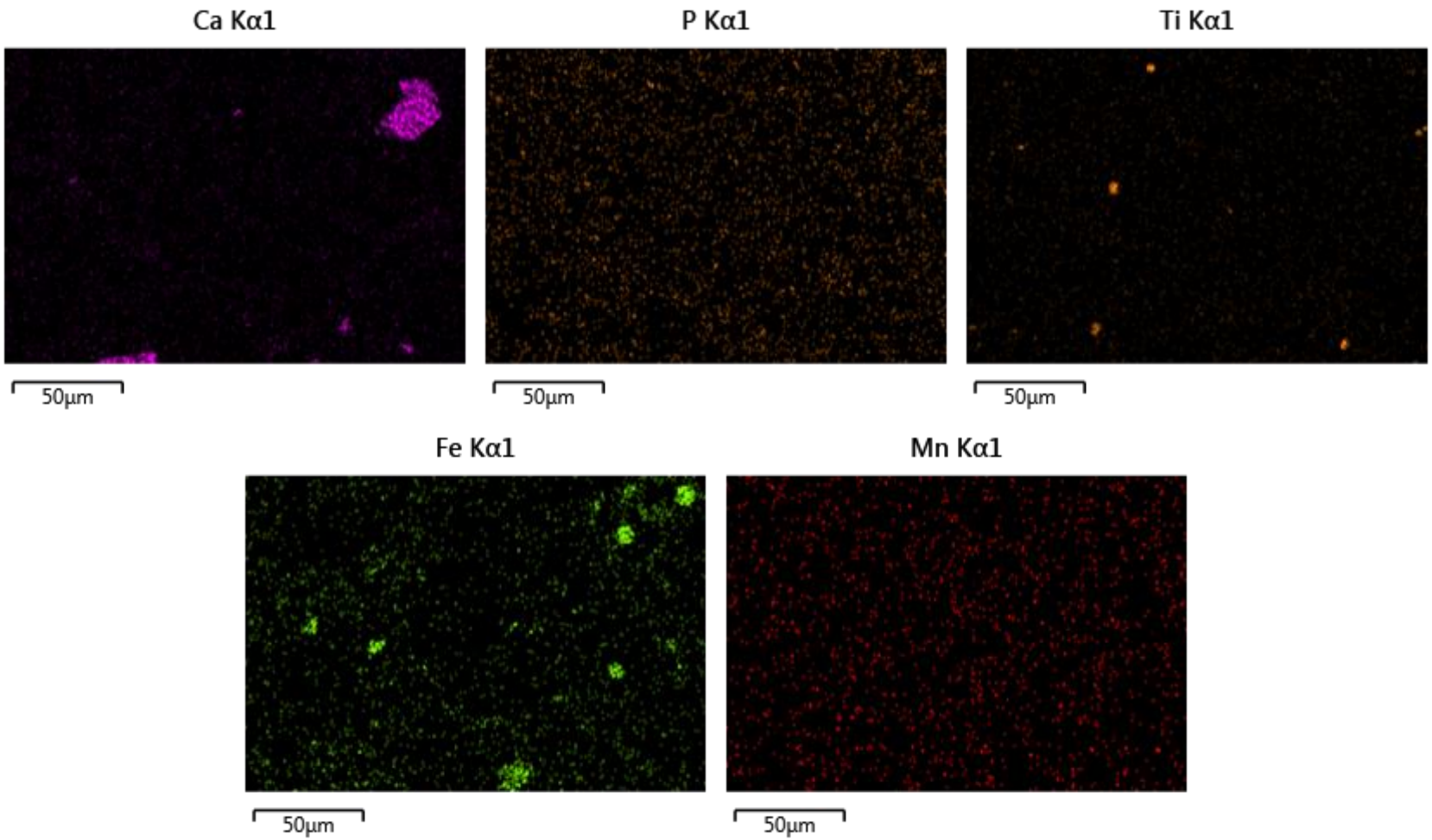

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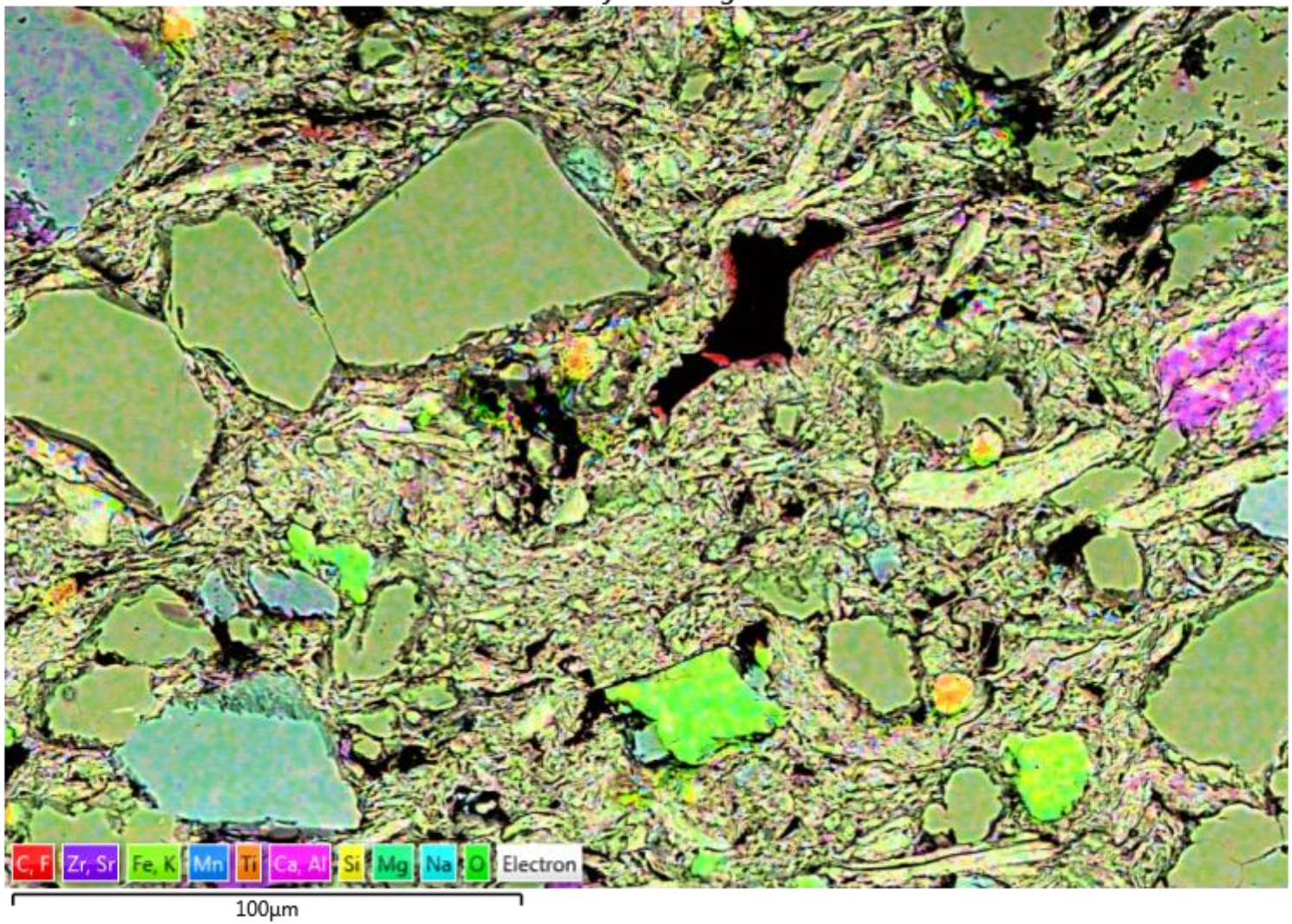

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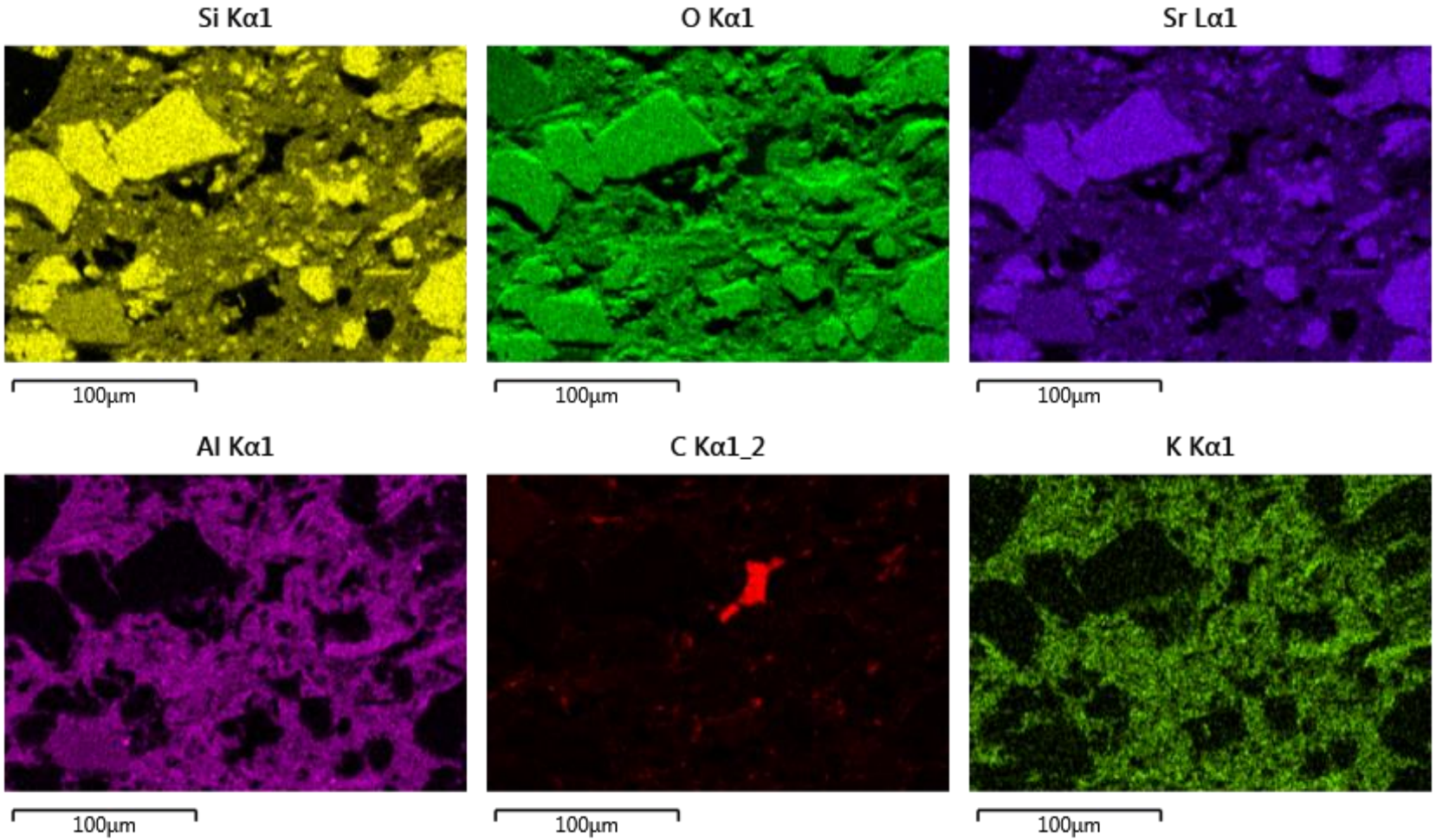

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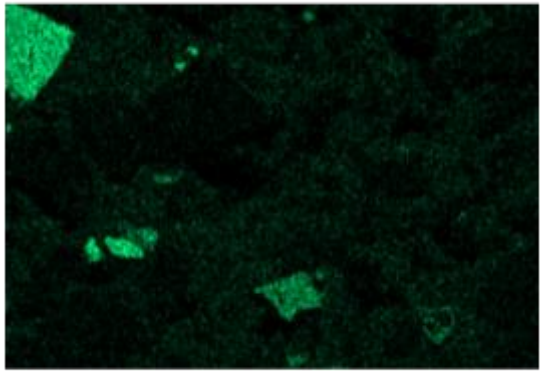
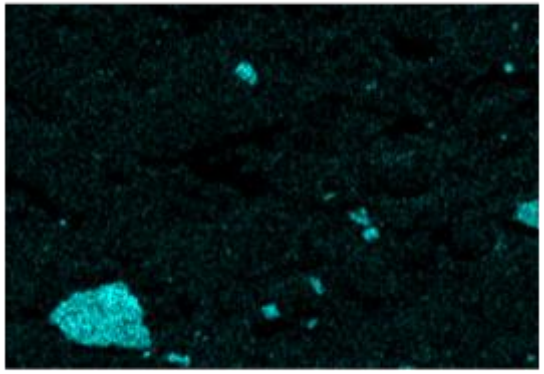
Mg Kα1_2



Na Kα1_2



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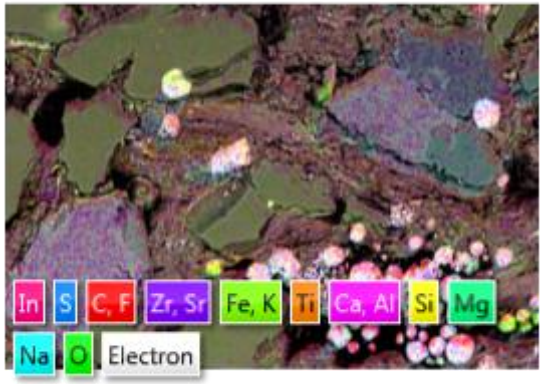
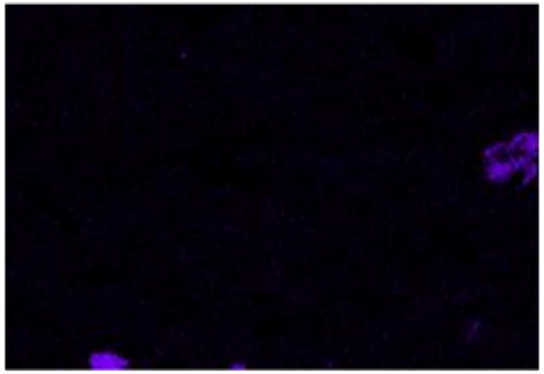
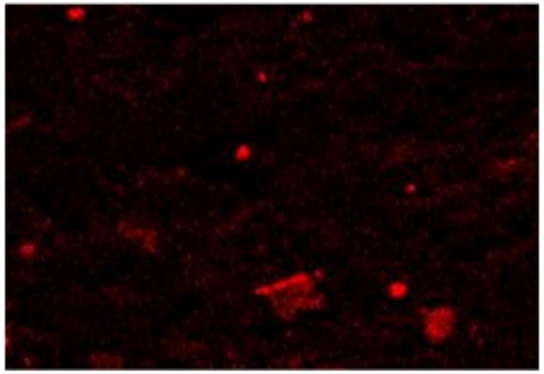


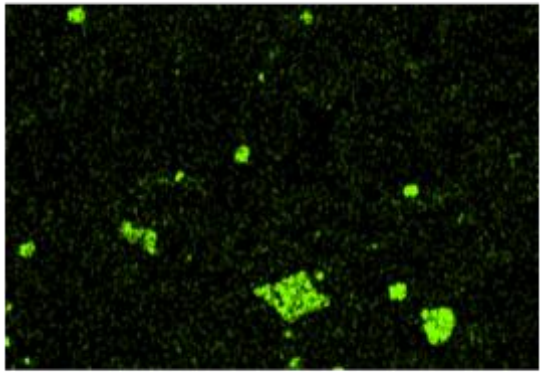
Zr Lα1



F Kα1_2



Fe Kα1



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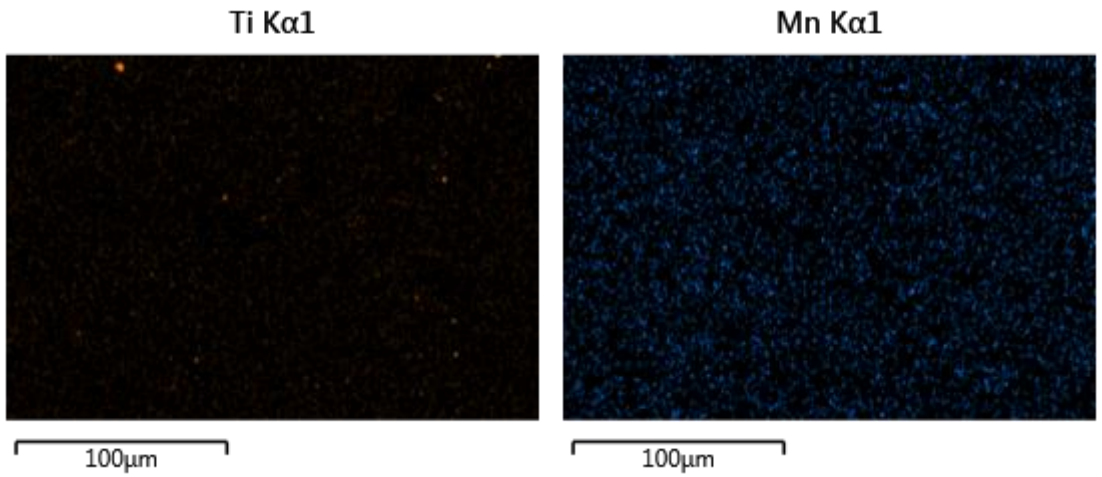
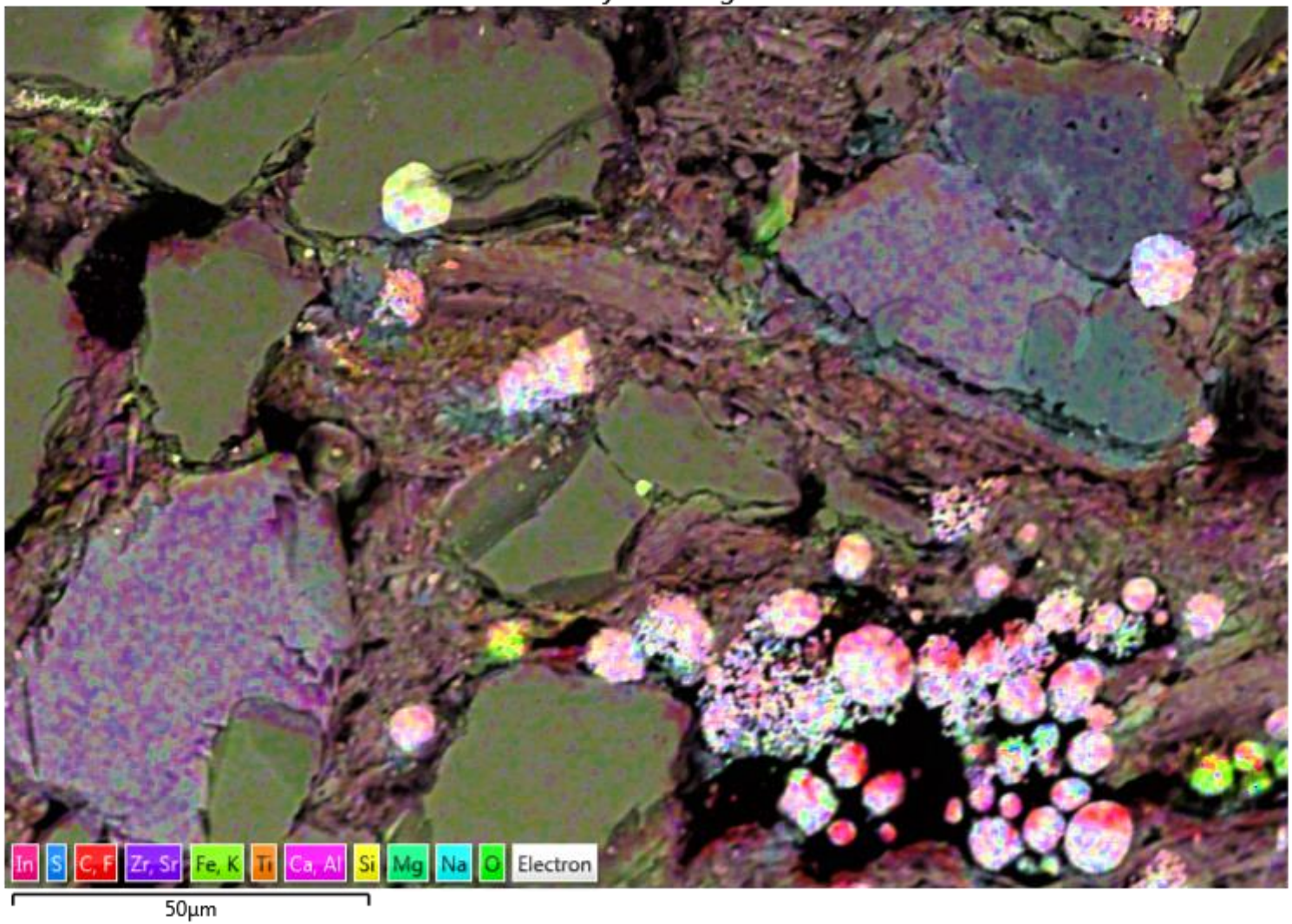

Ti Kα1
Mn Kα1
100µm
100µm

EDS Layered Image 3



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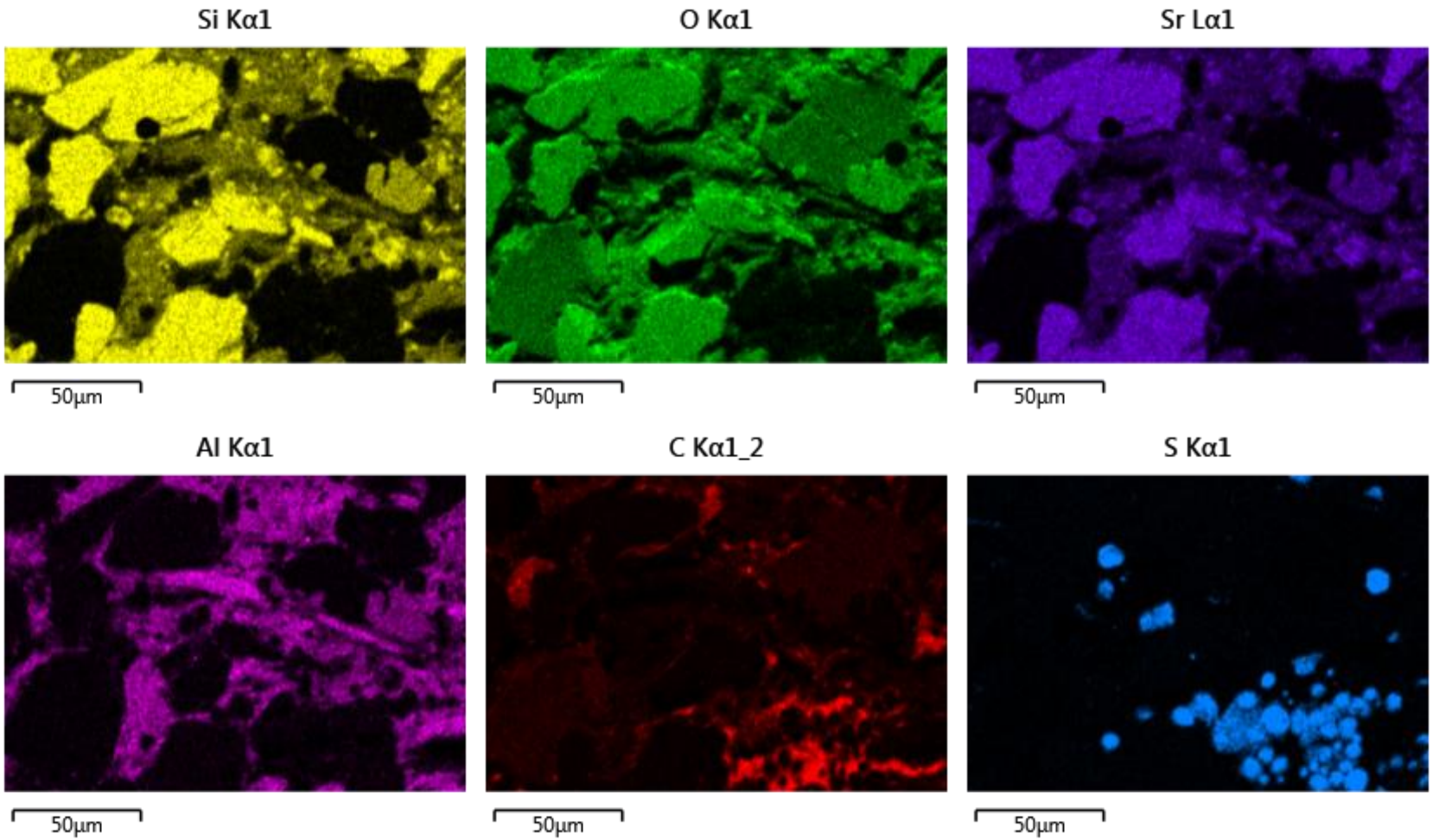
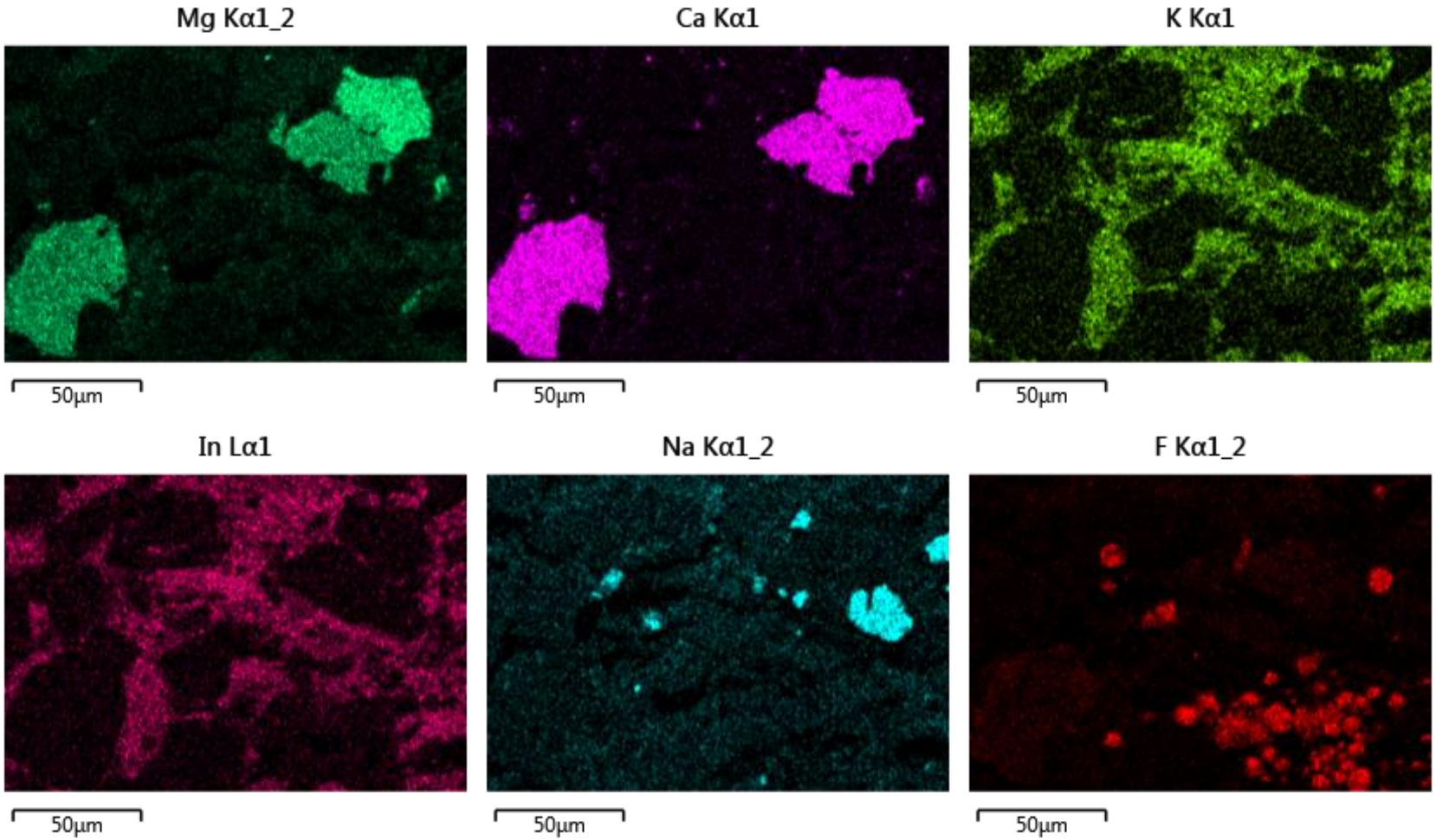

Si Kα1
O Kα1
Sr Lα1
50µm
50µm
50µm
Al Kα1
C Kα1_2
S Kα1
50µm
50µm
50µm



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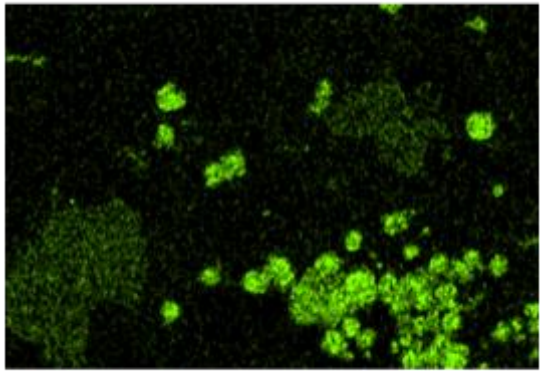
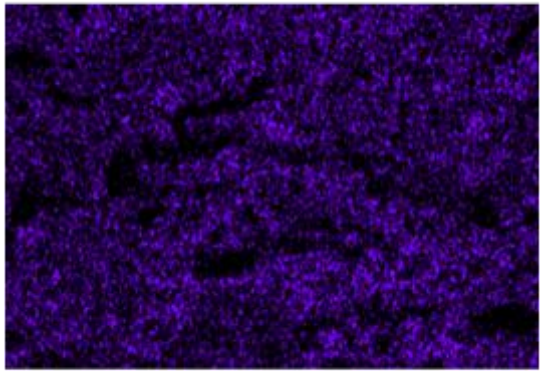
Fe Kα1



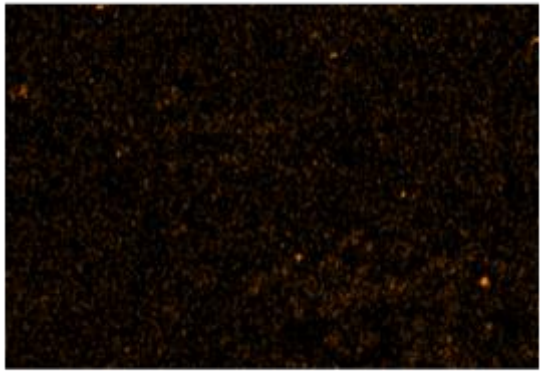
50µm

Zr Lα1



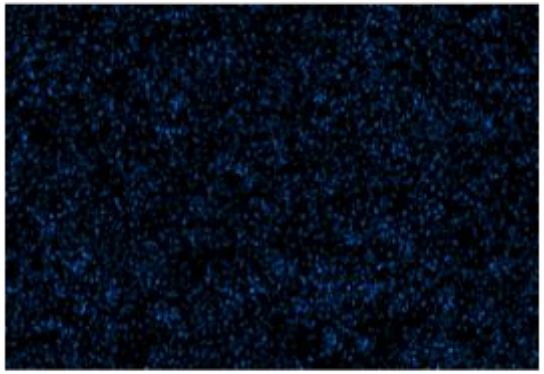
50µm

Ti Kα1



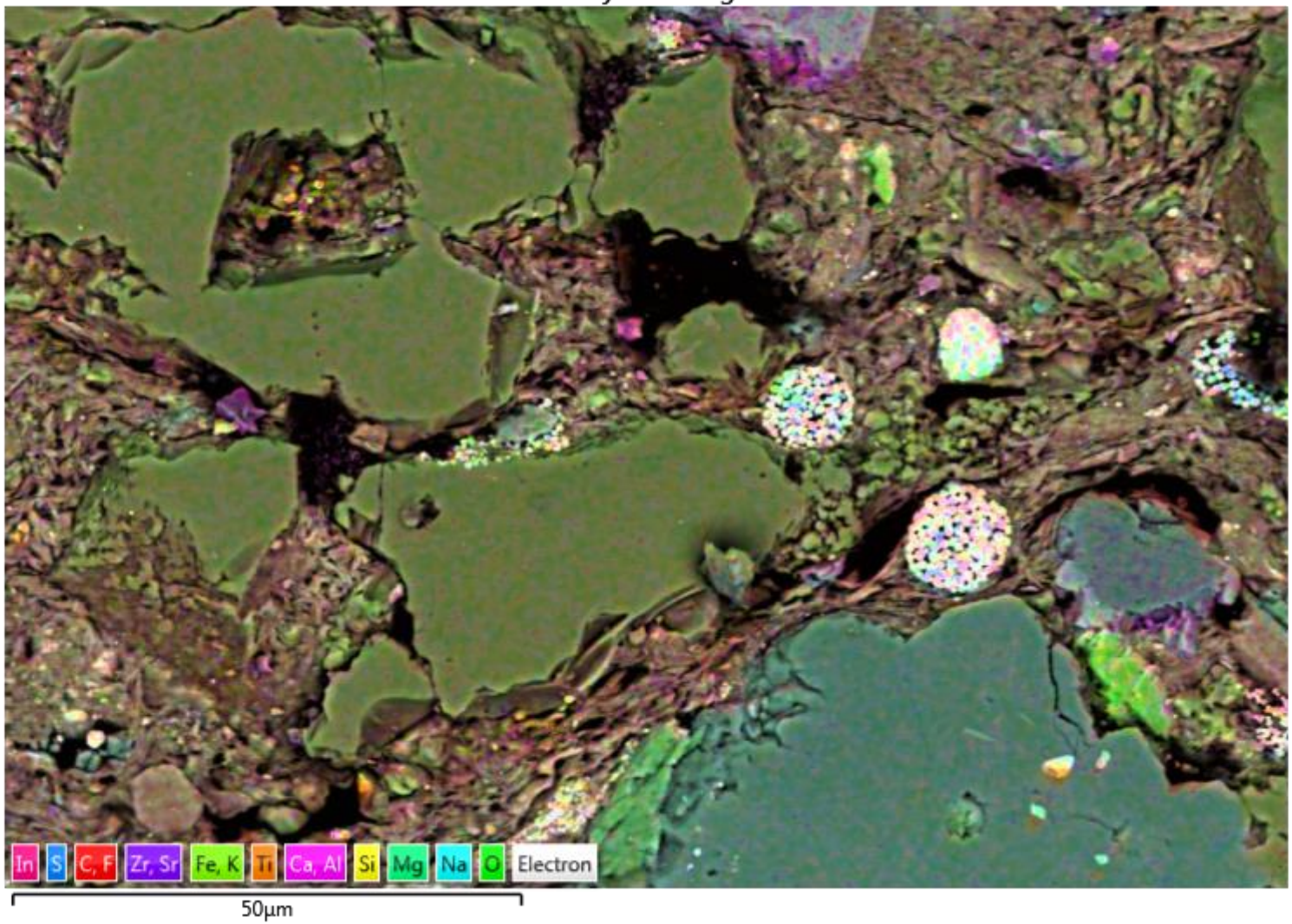
50µm

Mn Kα1



50µm

EDS Layered Image 4



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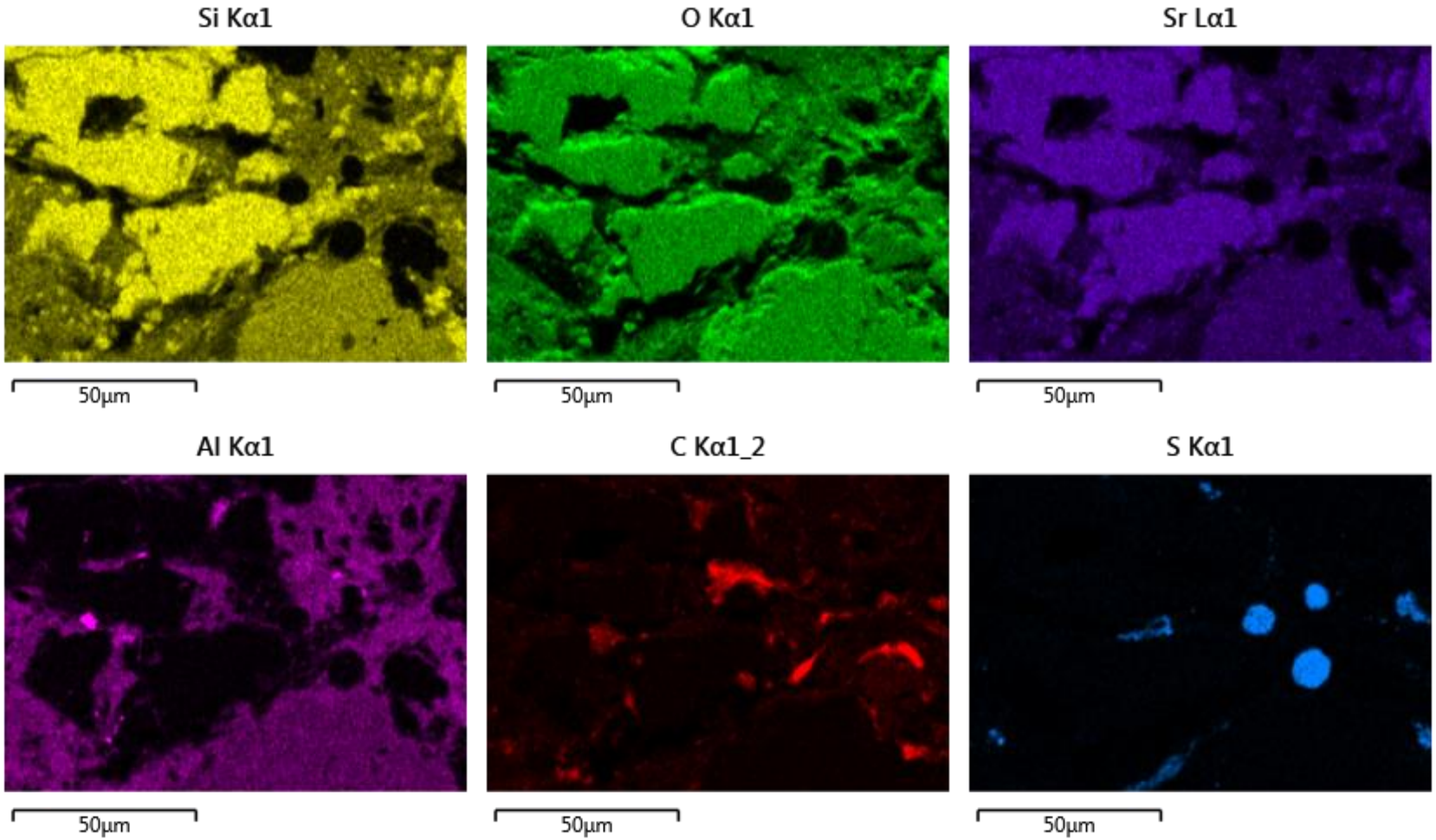

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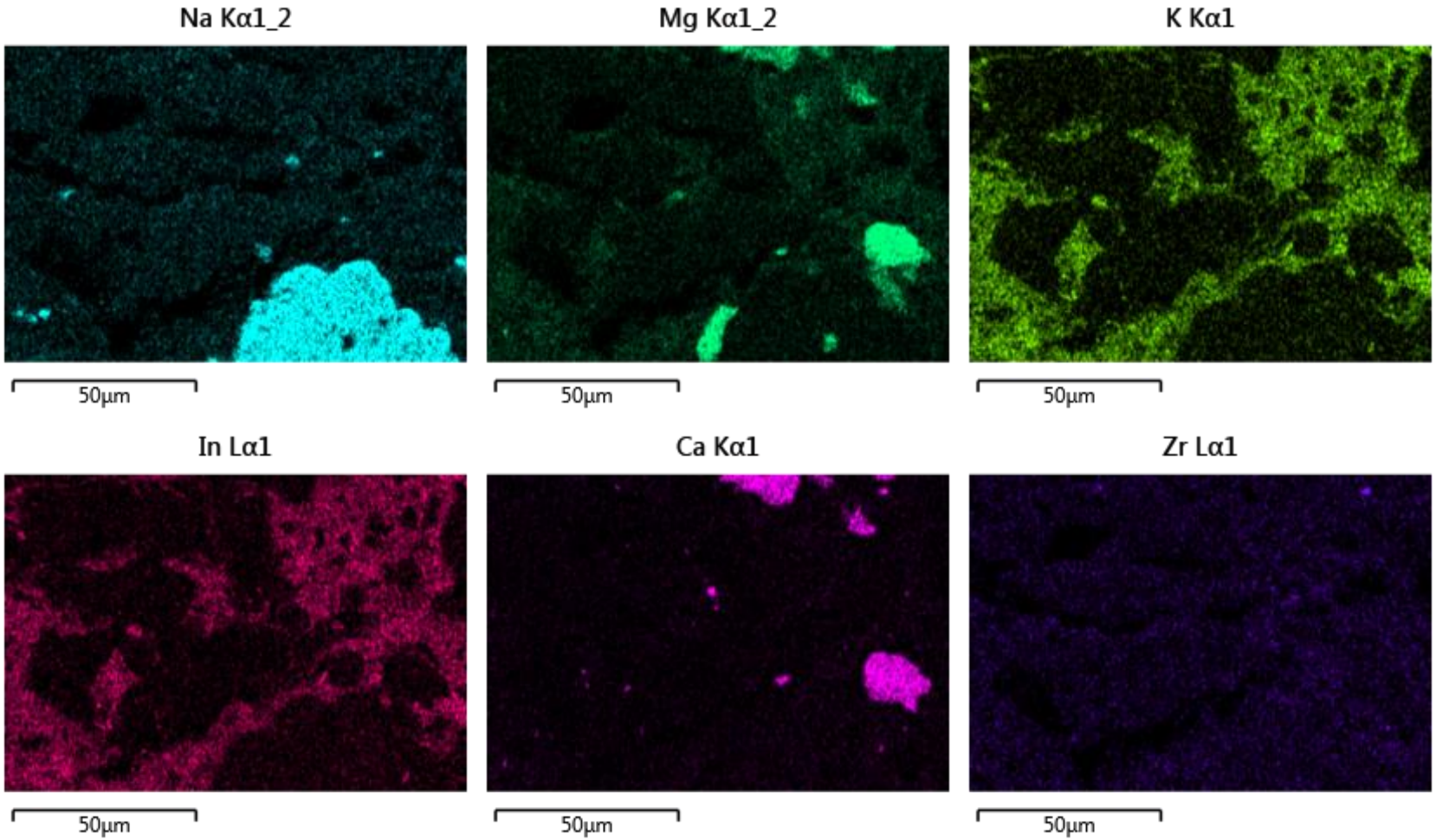

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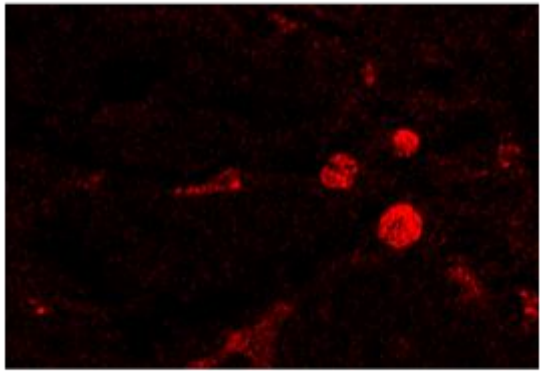
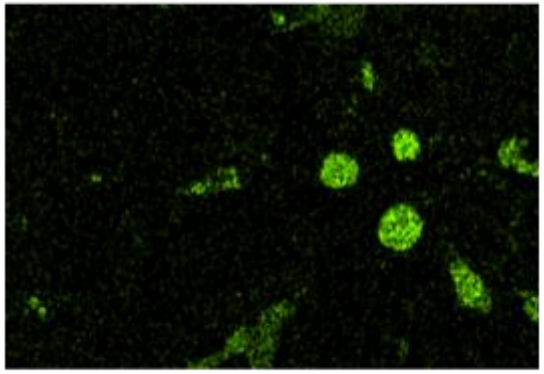
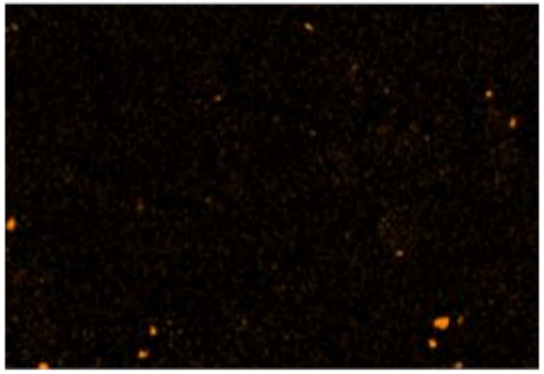
F Kα1_2



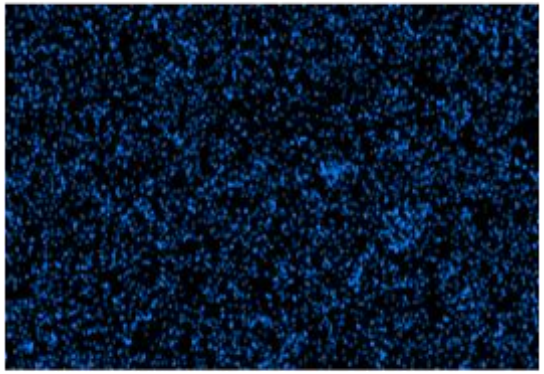
Fe Kα1



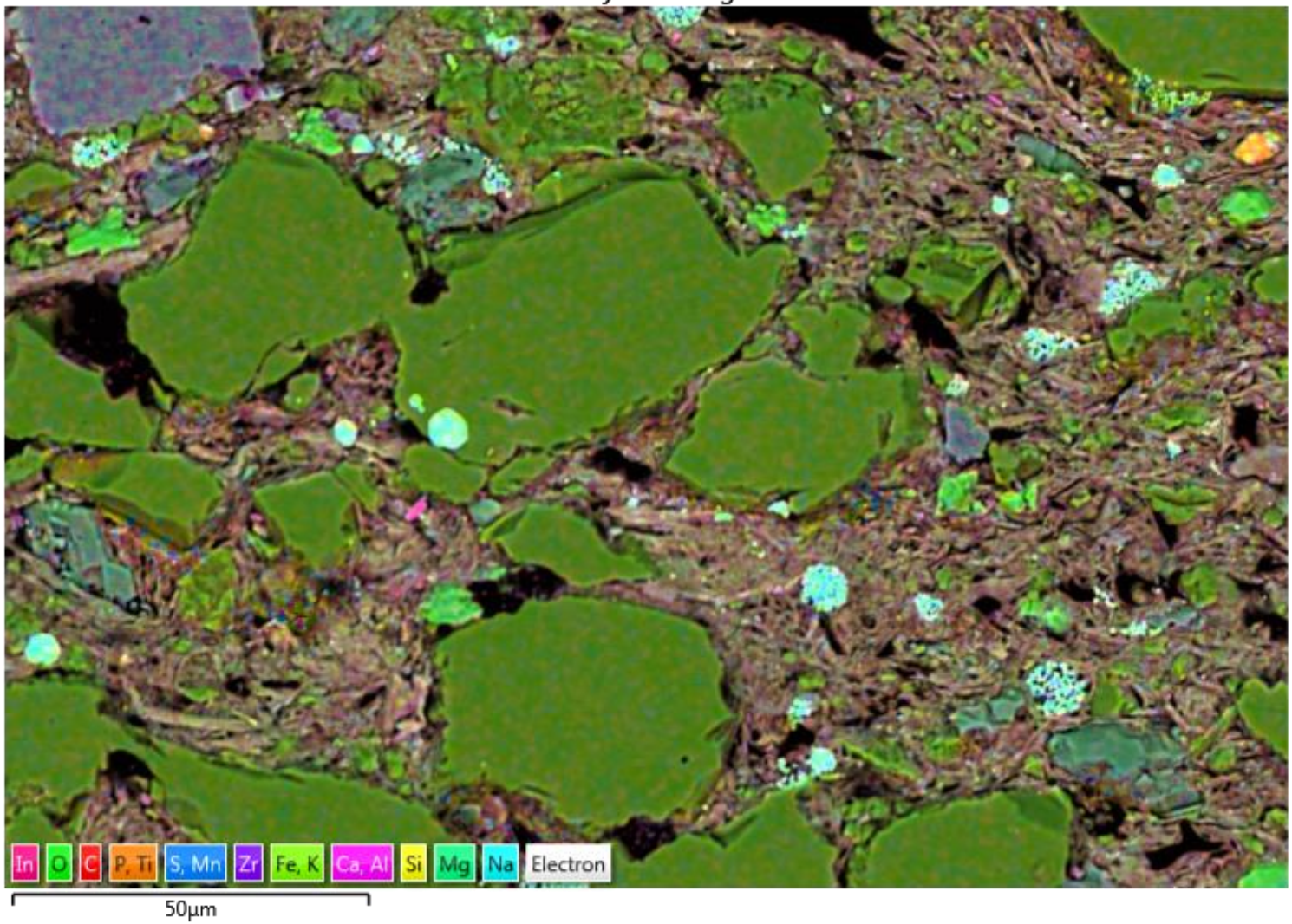
Ti Kα1



Mn Kα1



EDS Layered Image 5



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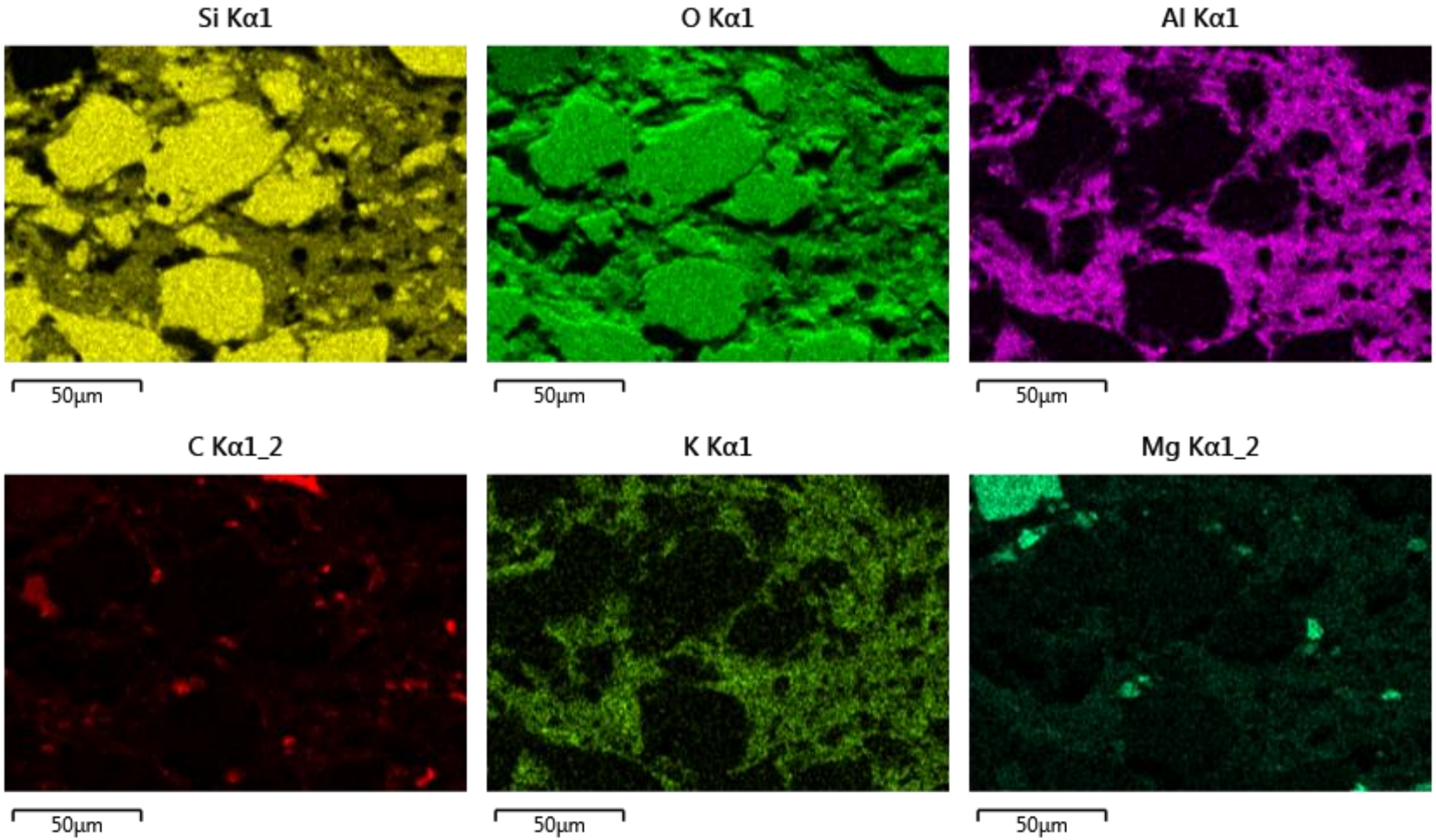

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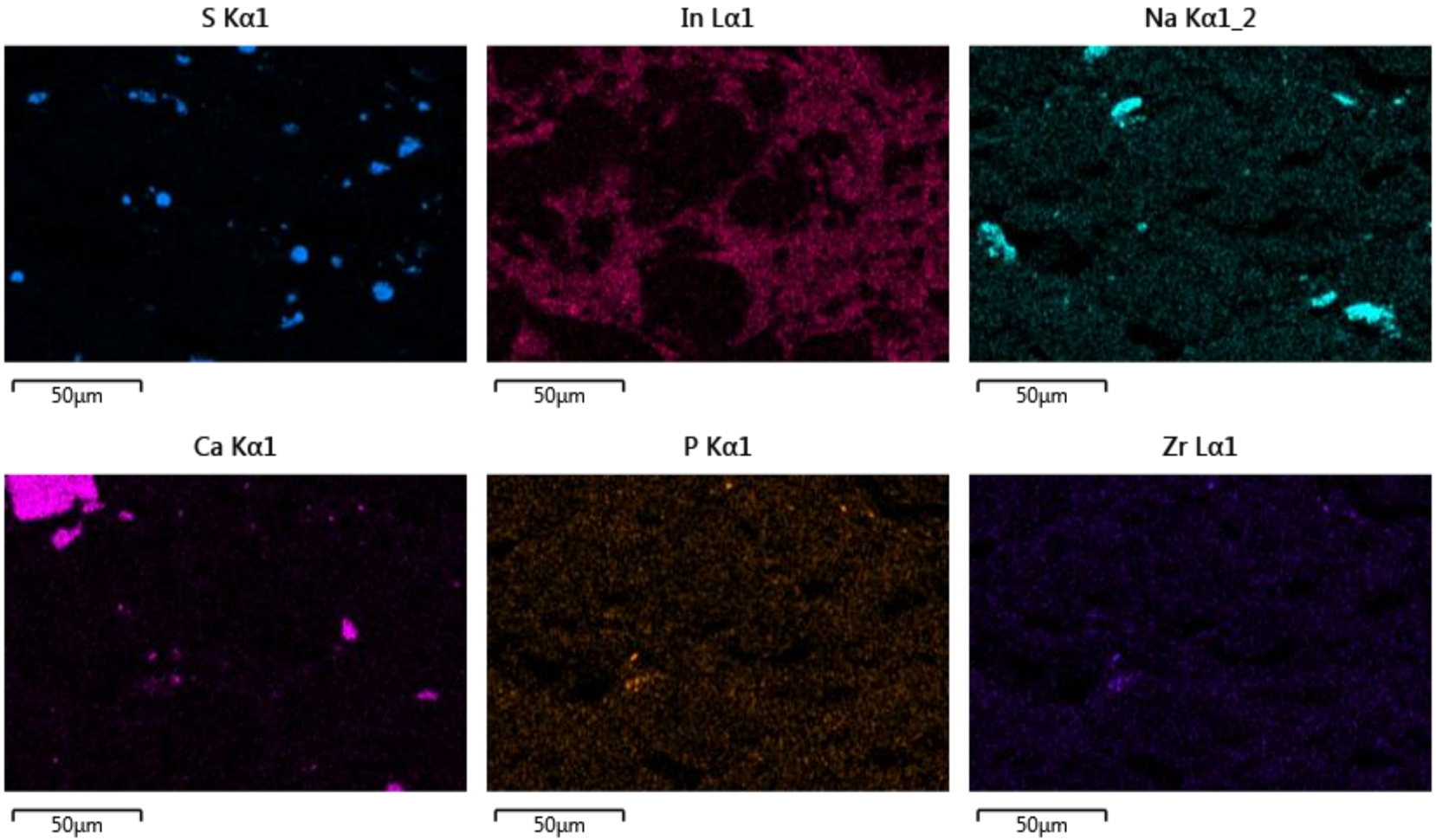

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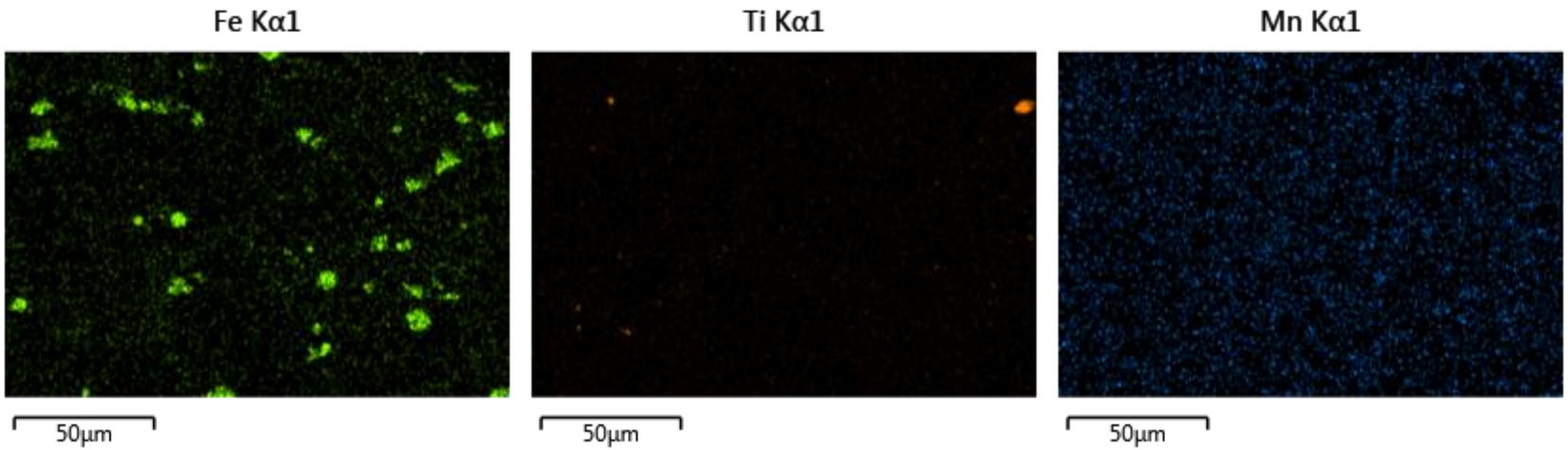
Fe Kα1
Ti Kα1
Mn Kα1
50µm
50µm
50µm

EDS Layered Image 6



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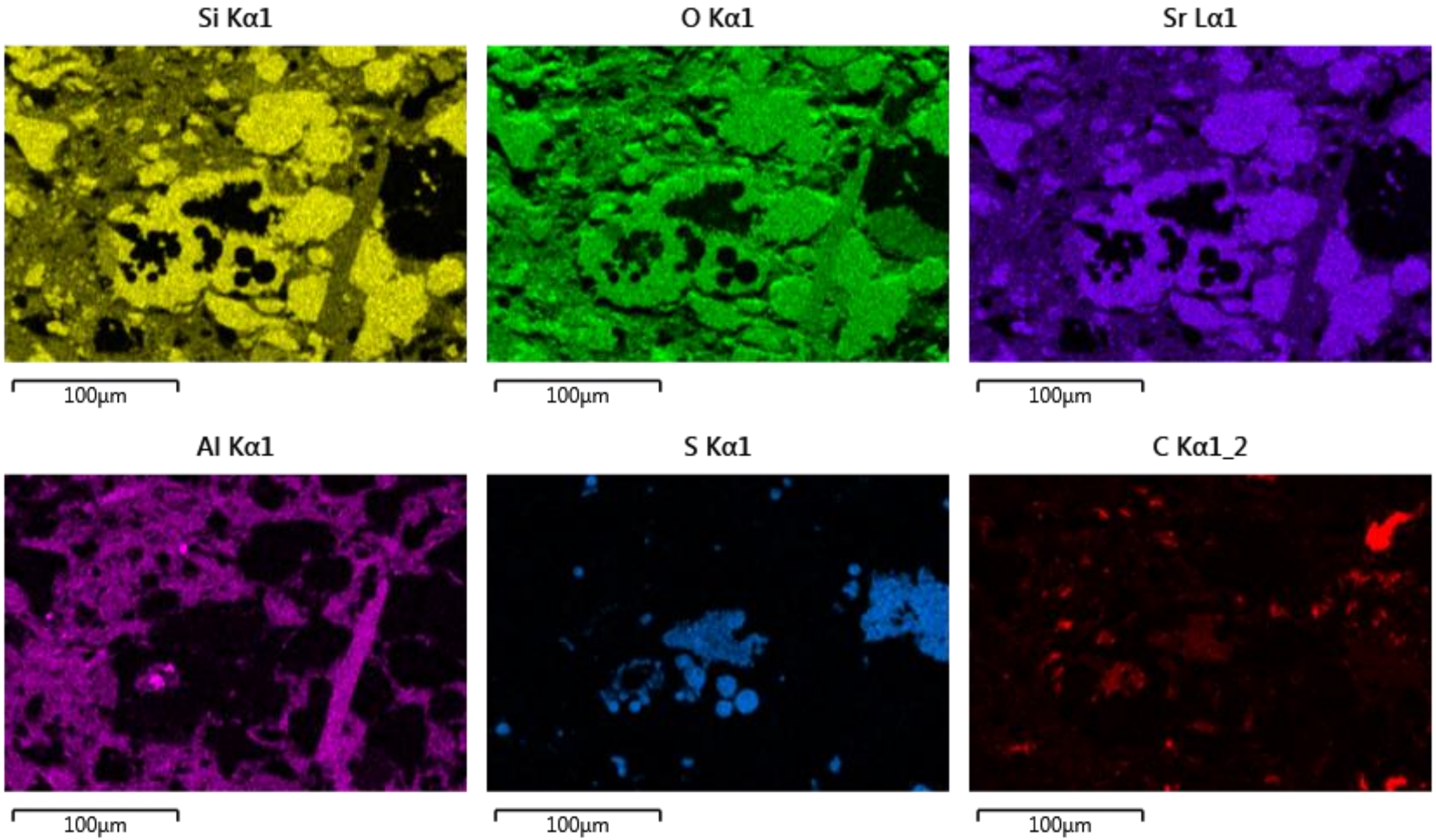

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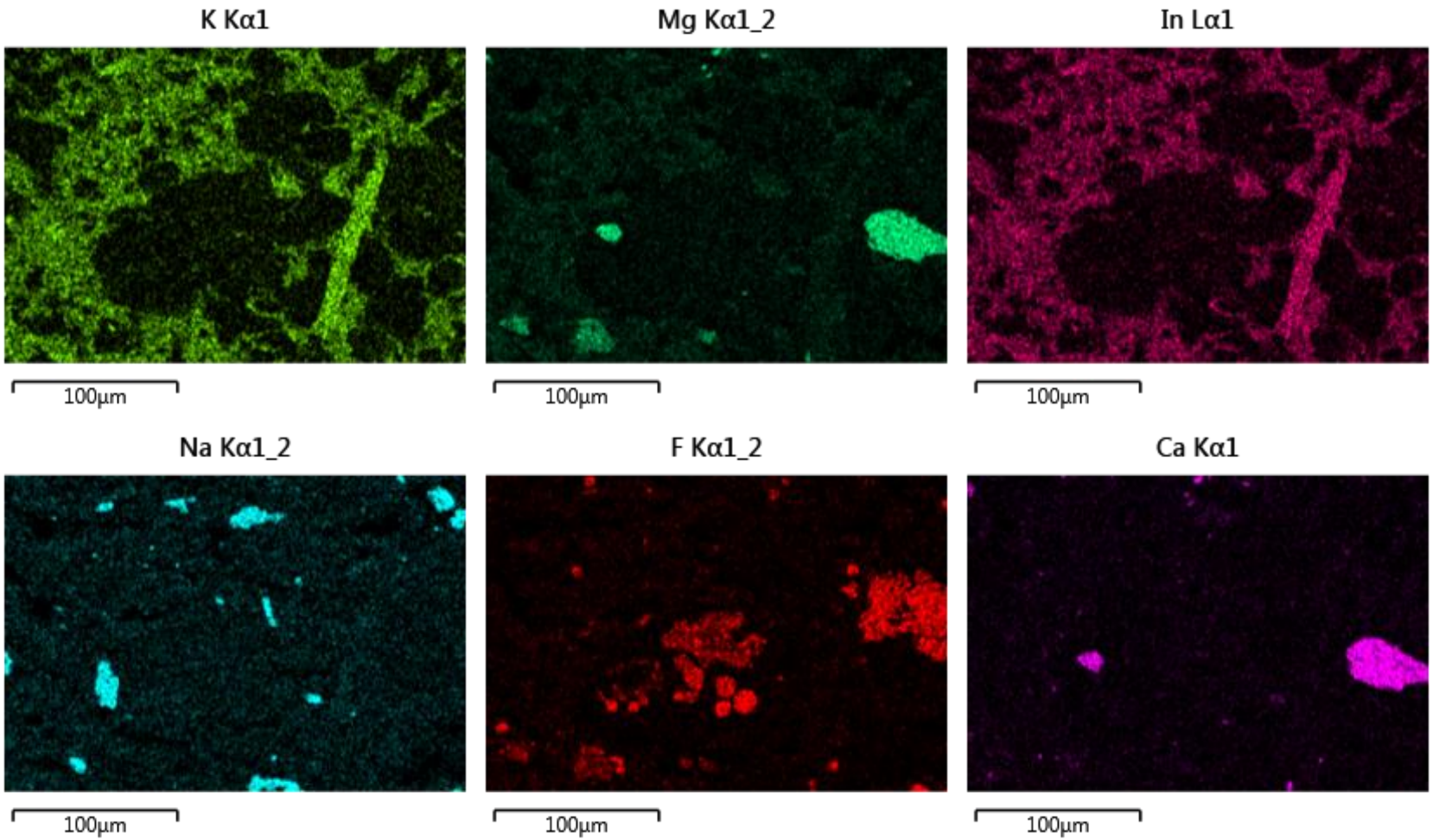

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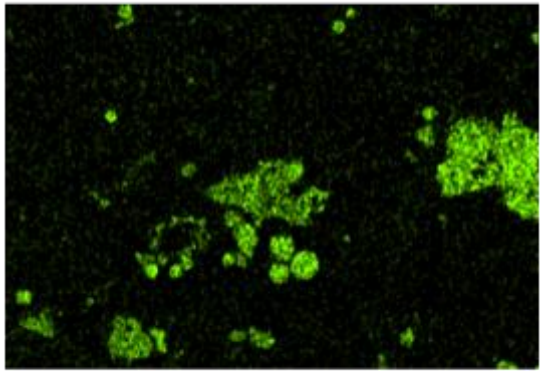
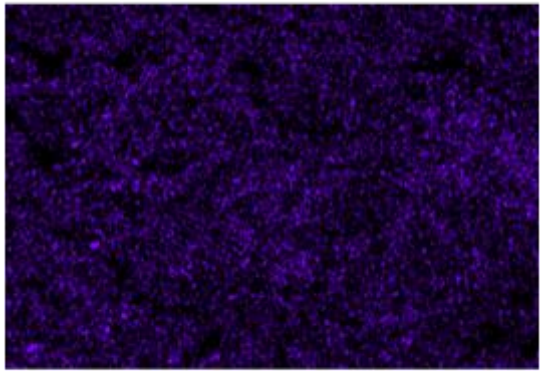
Fe Kα1



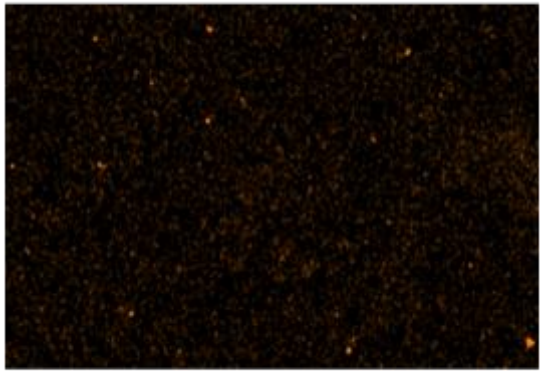
100µm

Zr Lα1



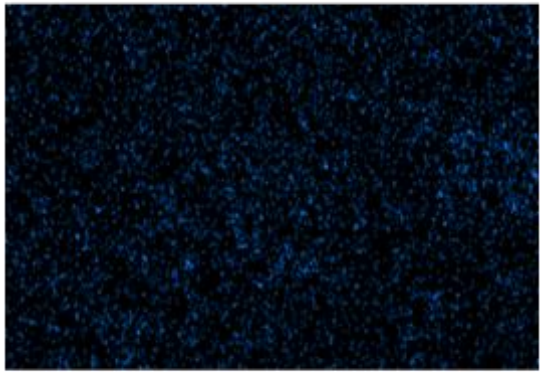
100µm

Ti Kα1



100µm

Mn Kα1



100µm

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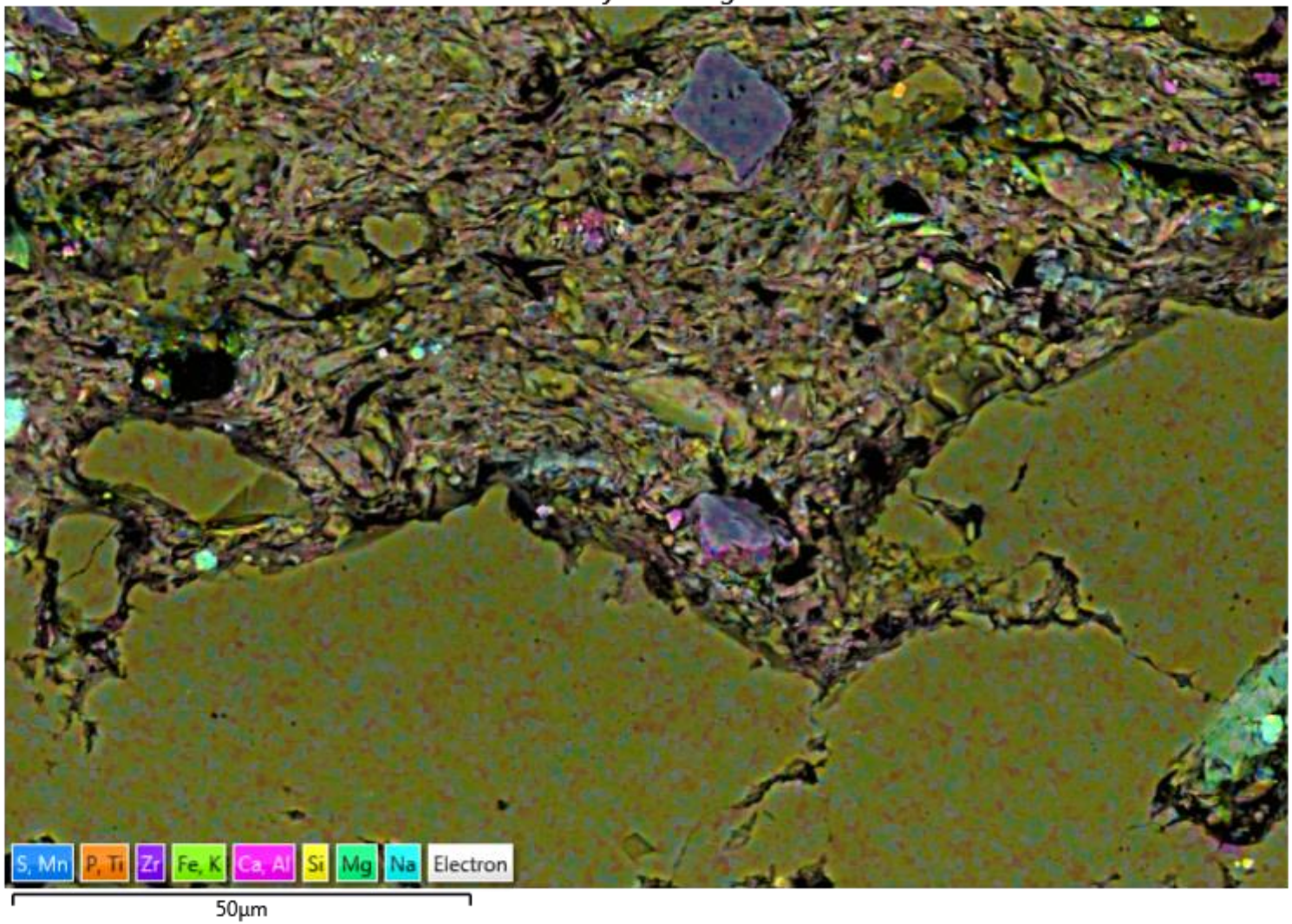
EDS Layered Image 7



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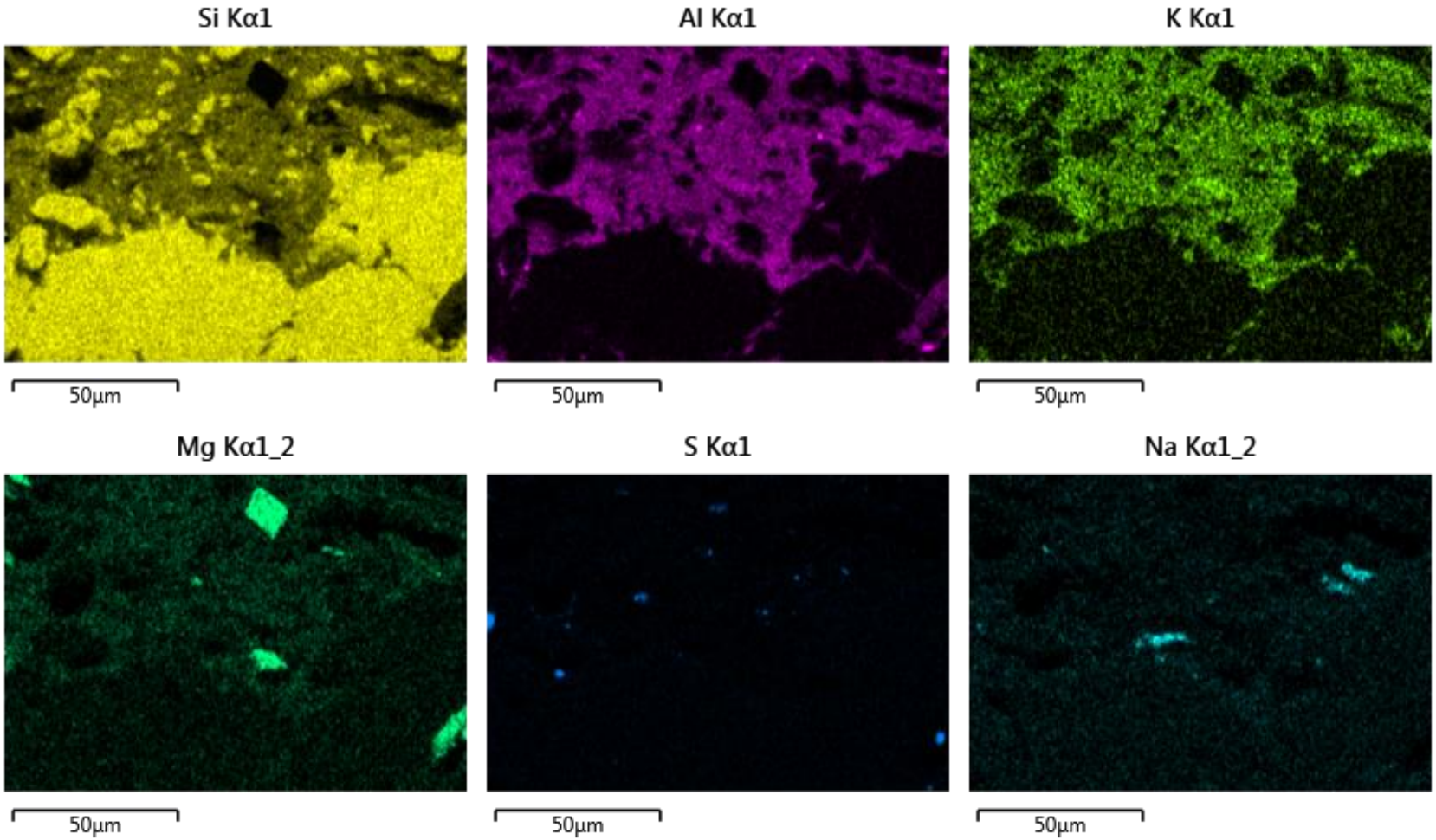

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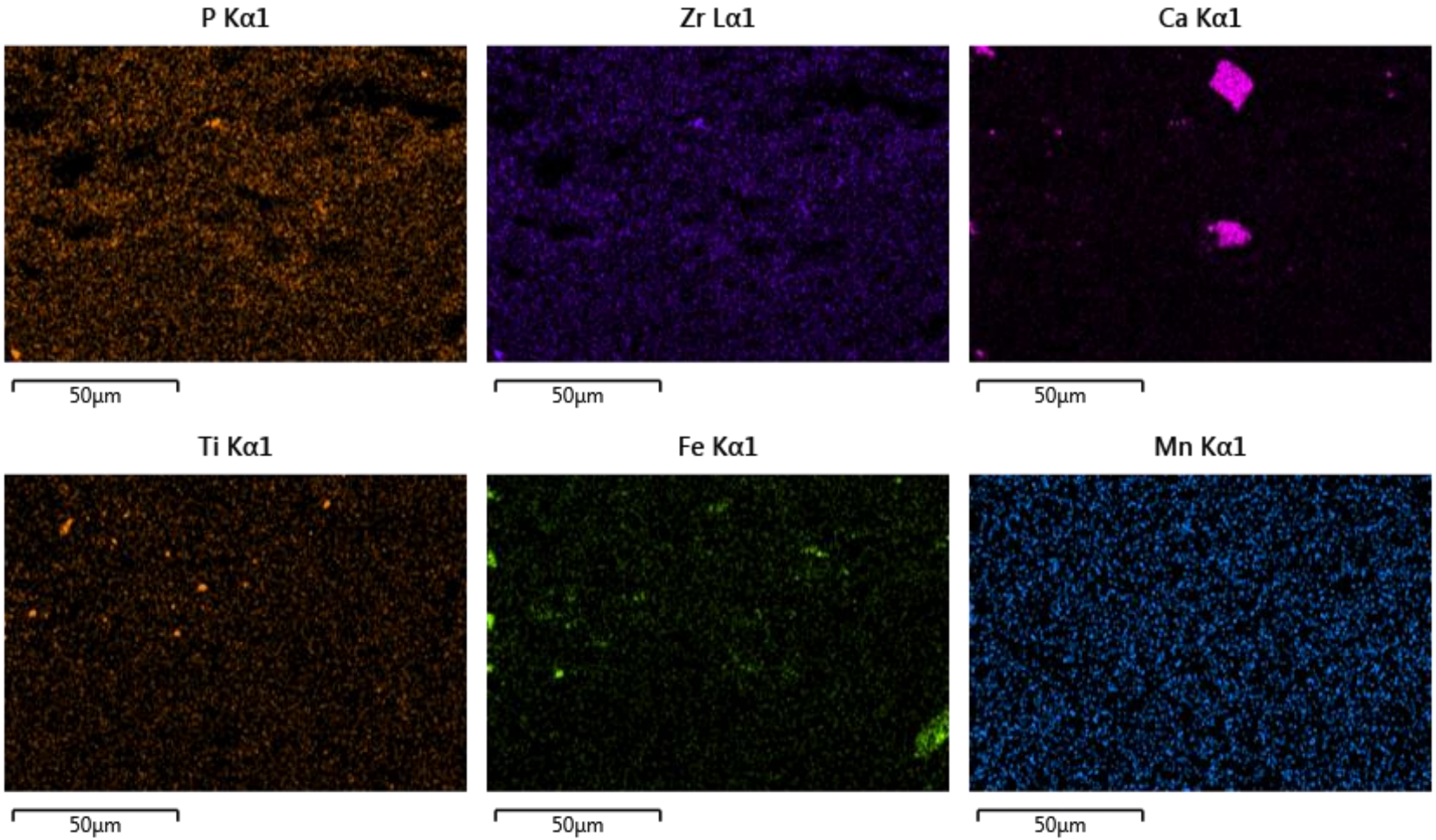

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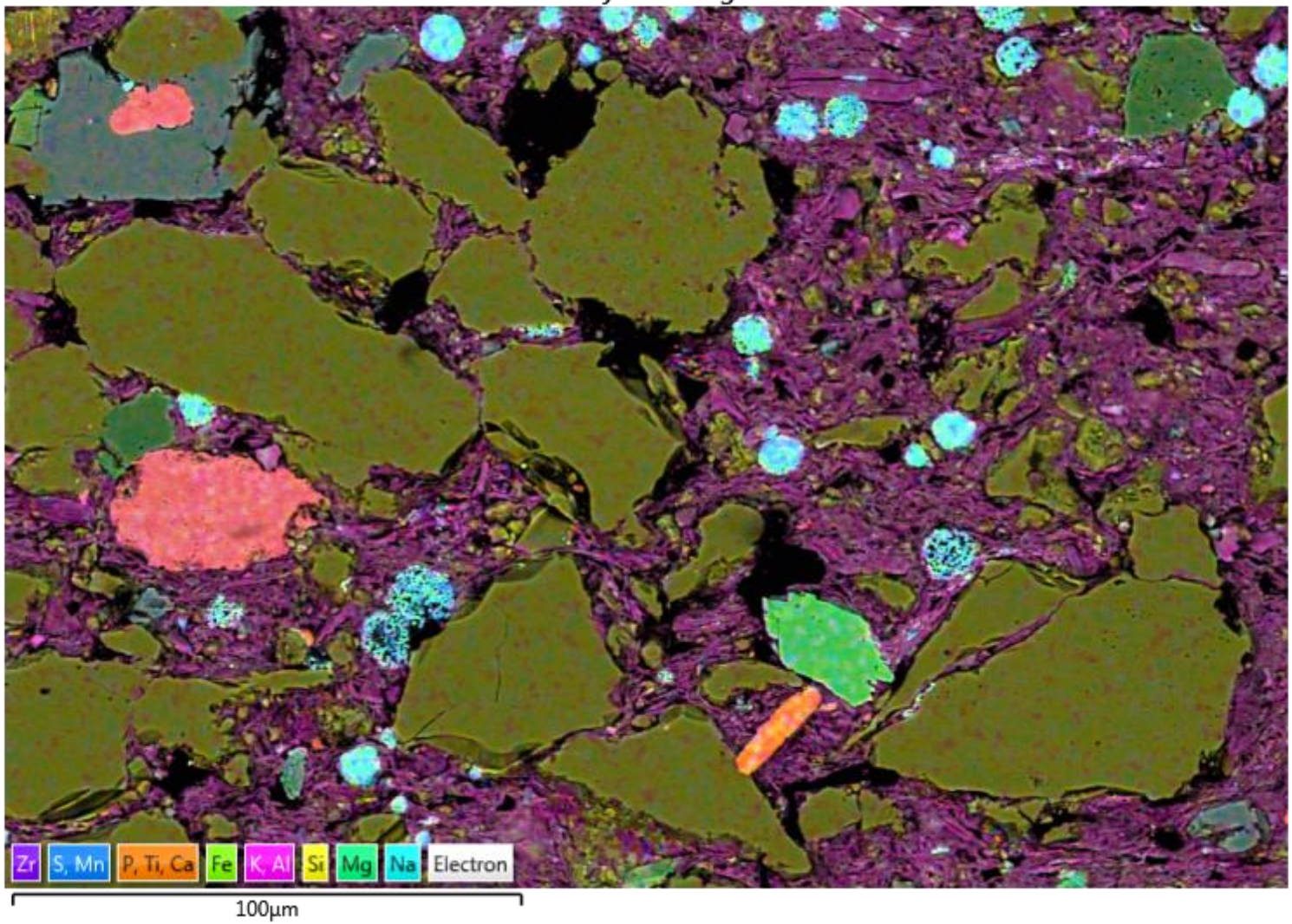
EDS Layered Image 8



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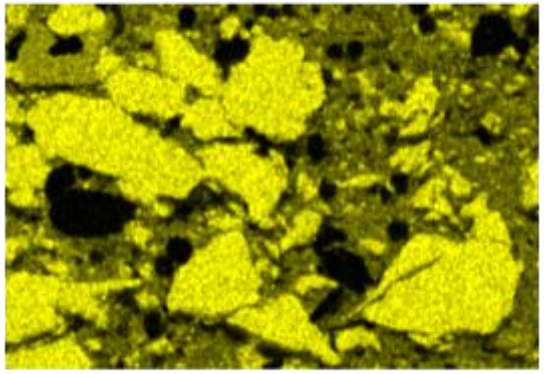
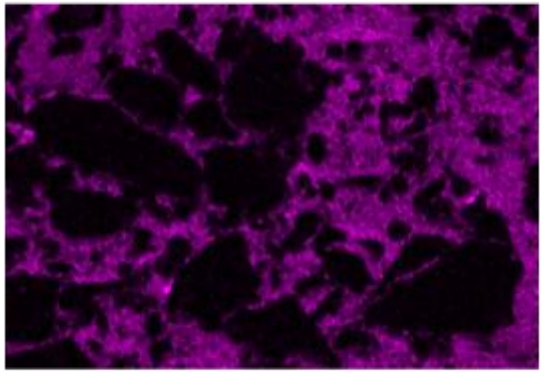
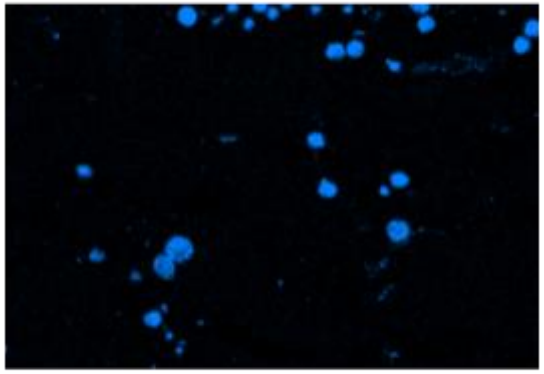
Si Kα1



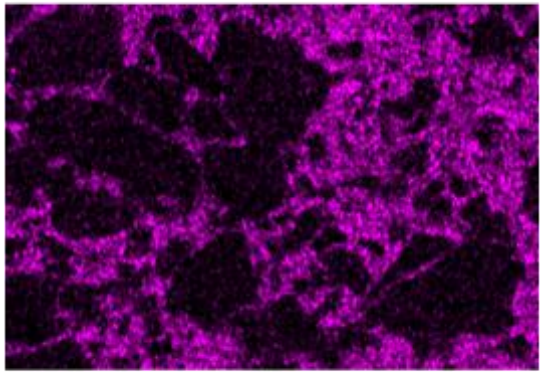
Al Kα1



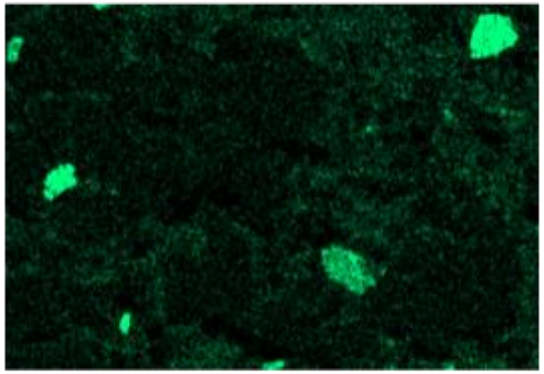
S Kα1



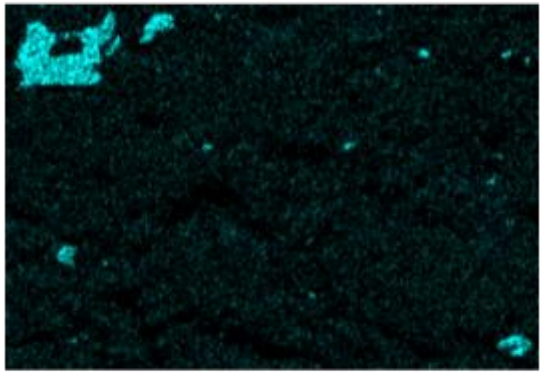
K Kα1



Mg Kα1_2



Na Kα1_2



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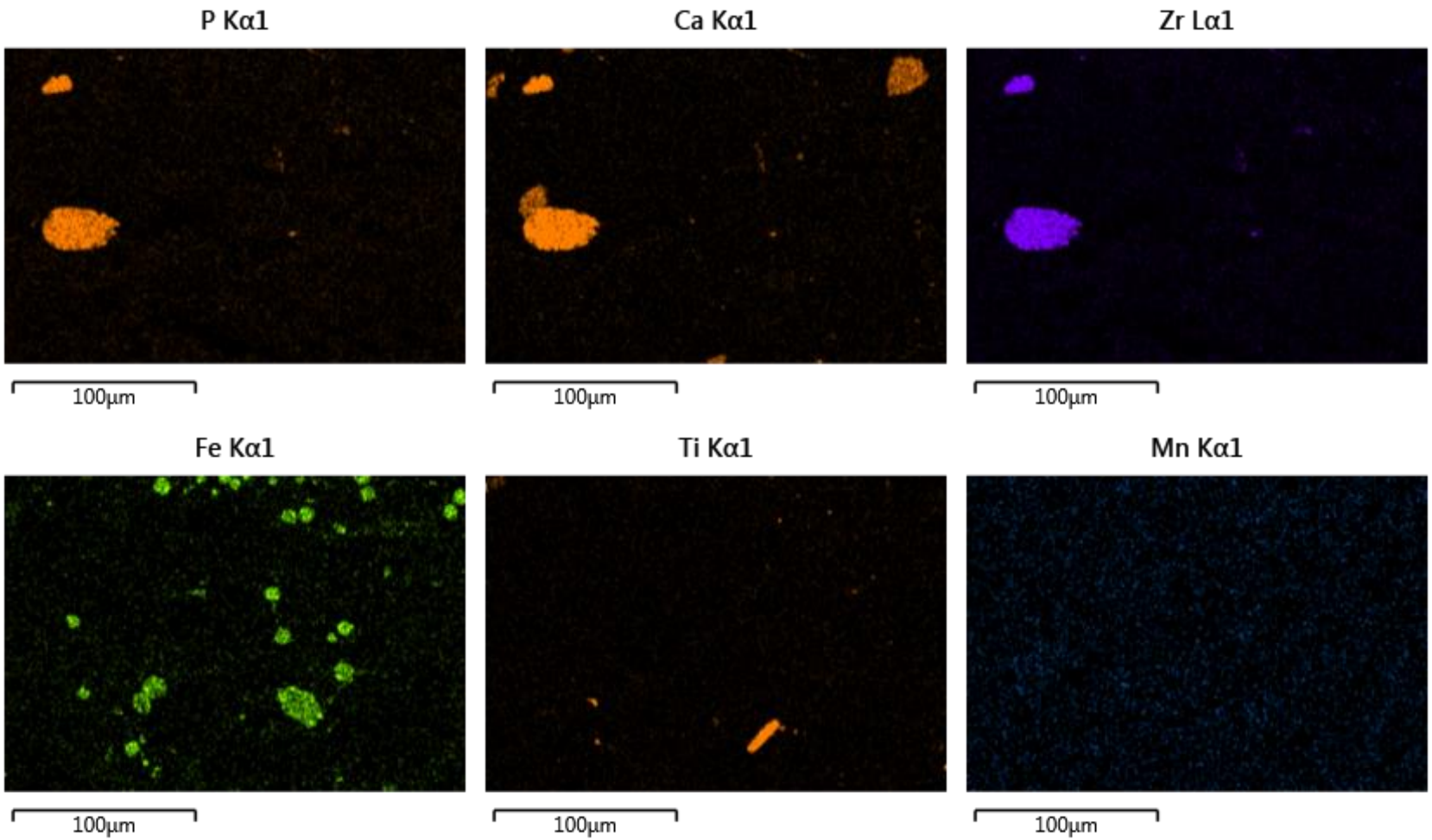

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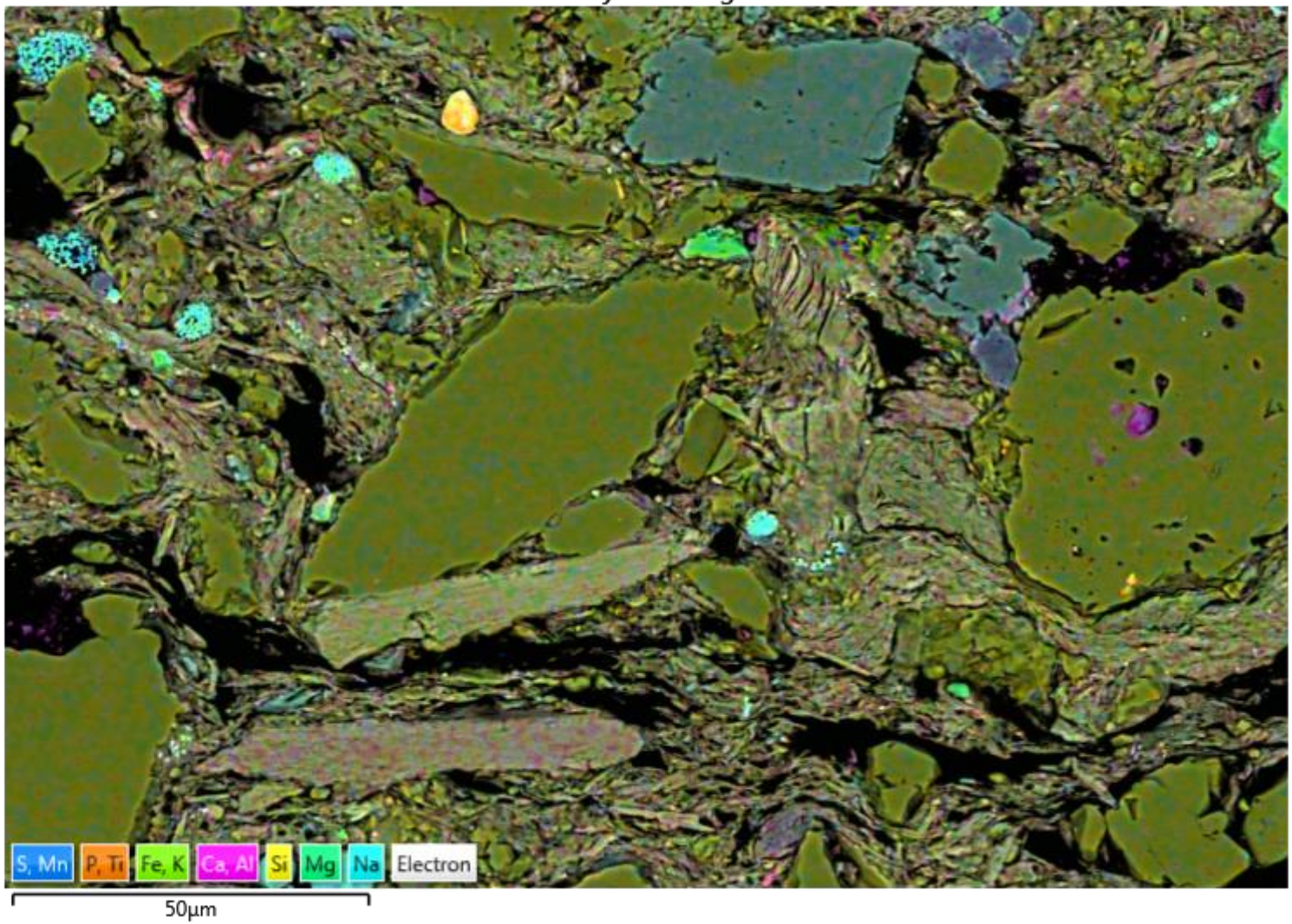
EDS Layered Image 9



OXFORD INSTRUMENTS
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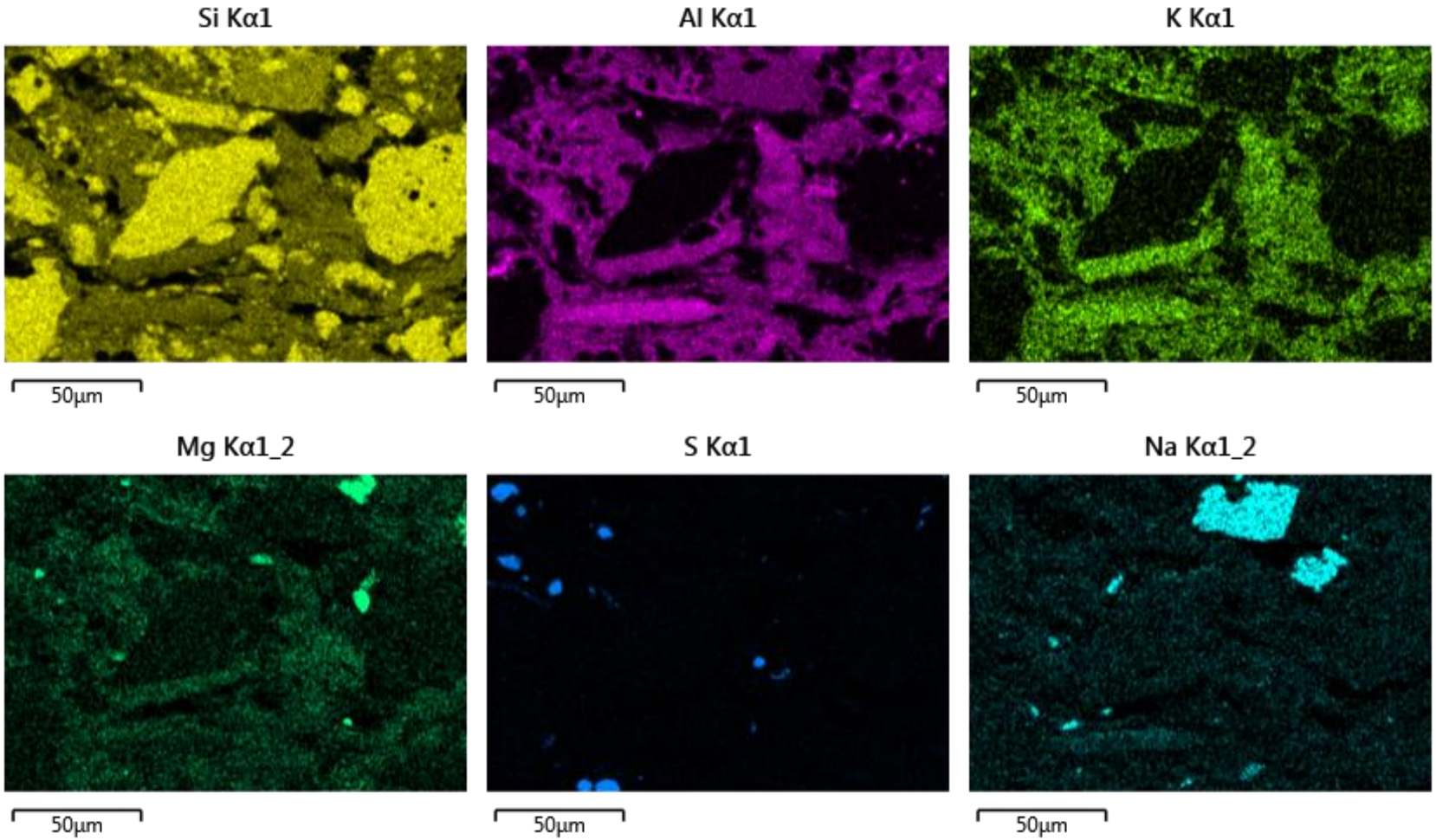
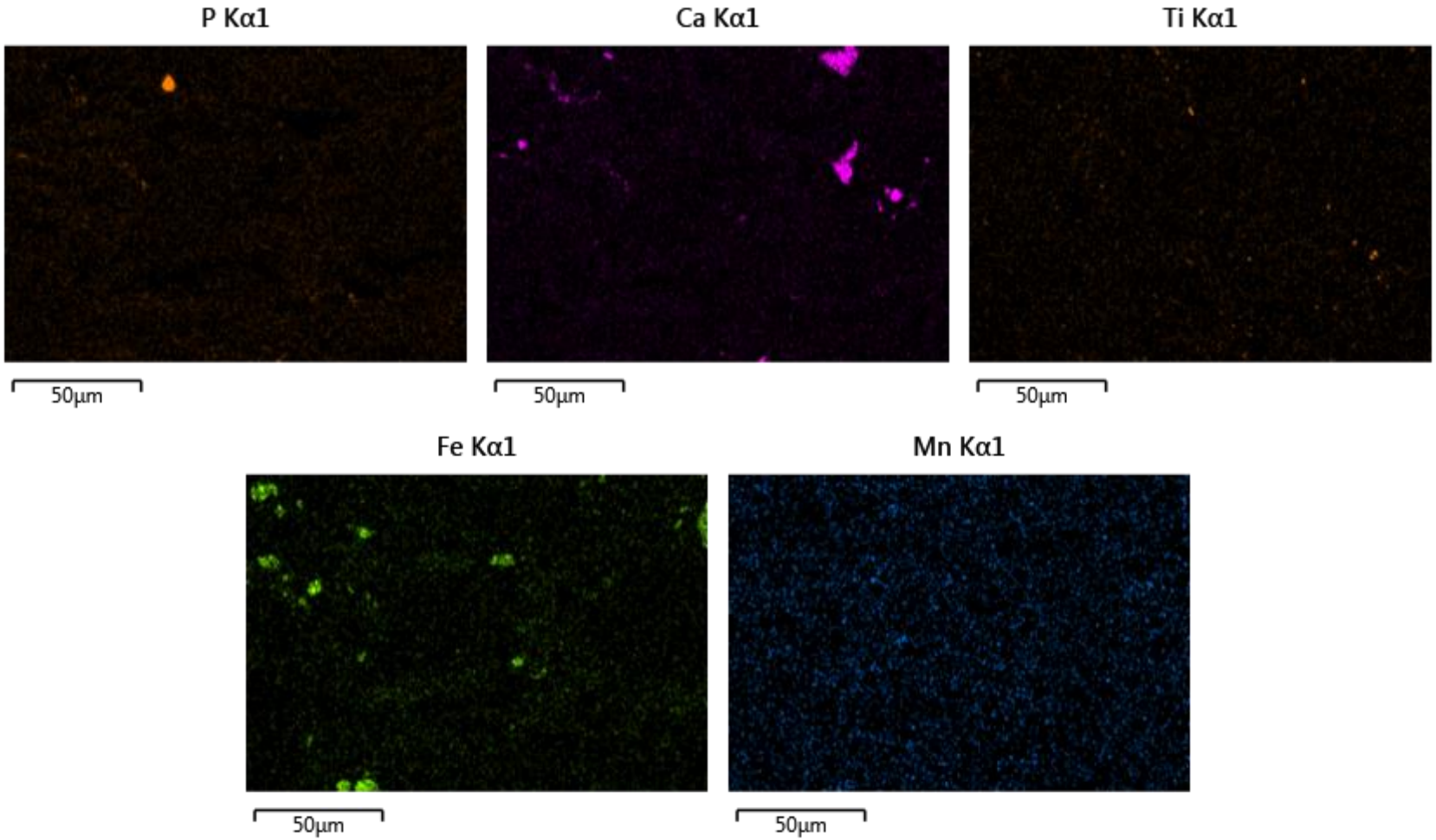

Si Kα1
Al Kα1
K Kα1
50µm
50µm
50µm
Mg Kα1_2
S Kα1
Na Kα1_2
50µm
50µm
50µm



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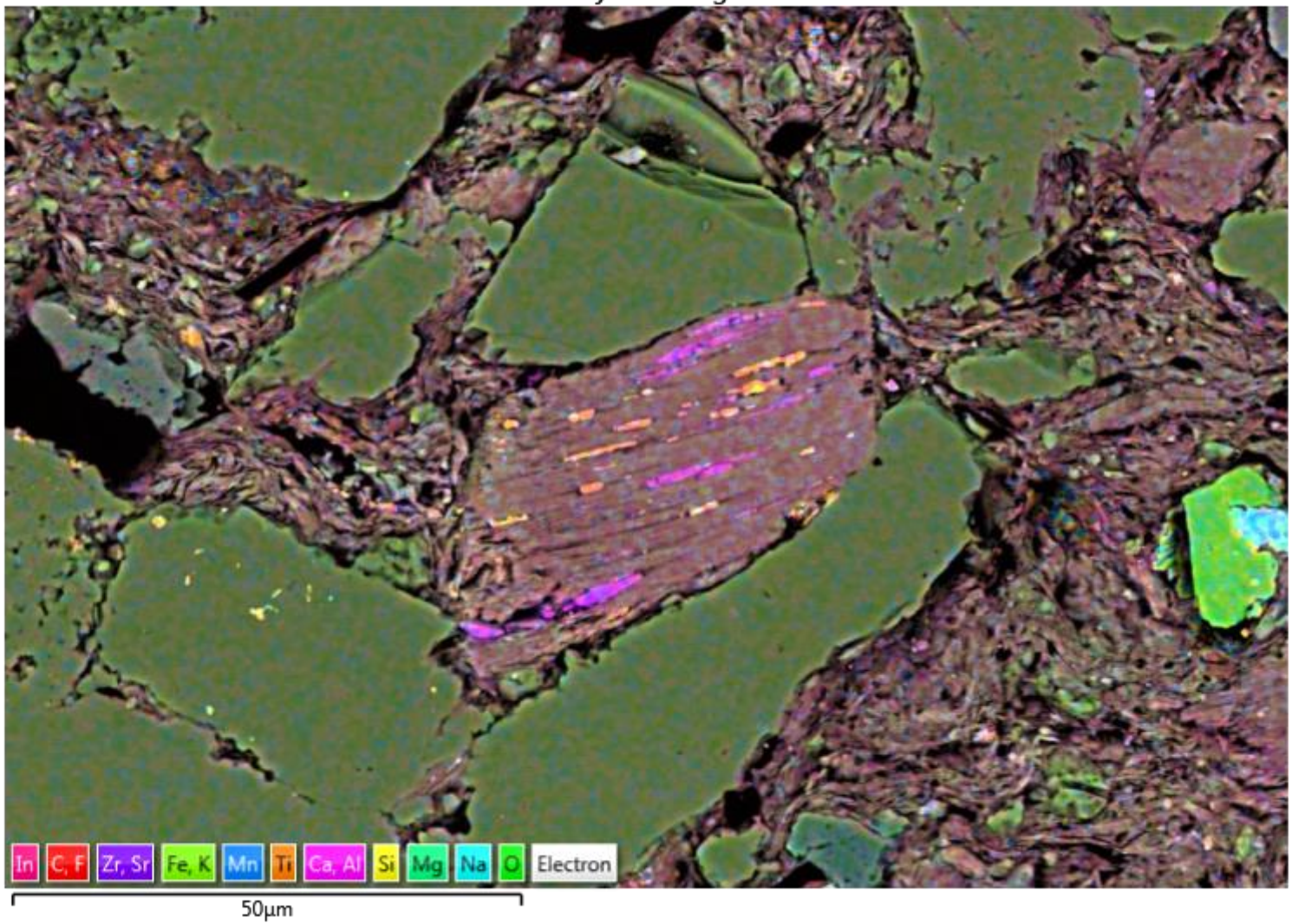
EDS Layered Image 10



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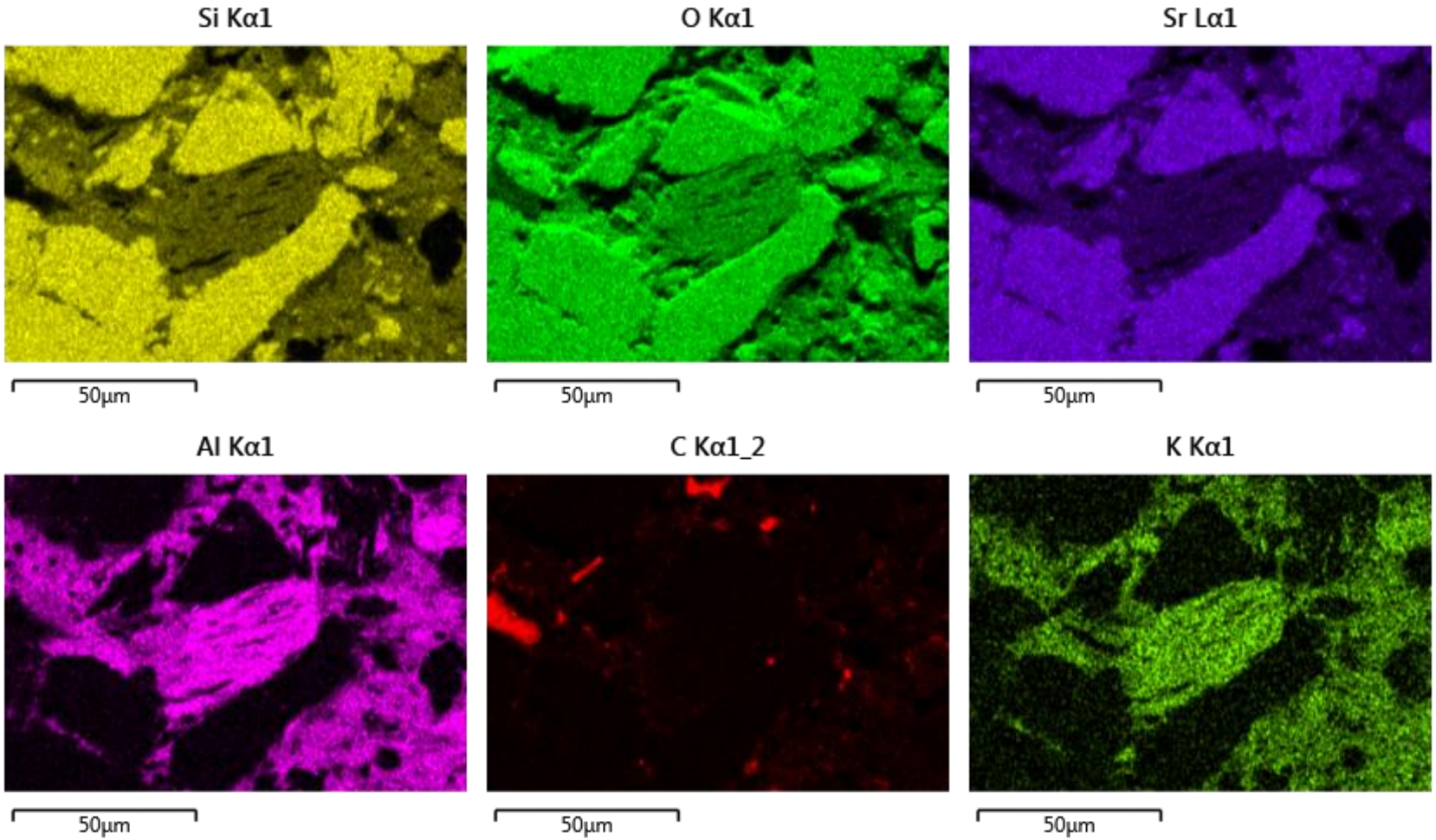

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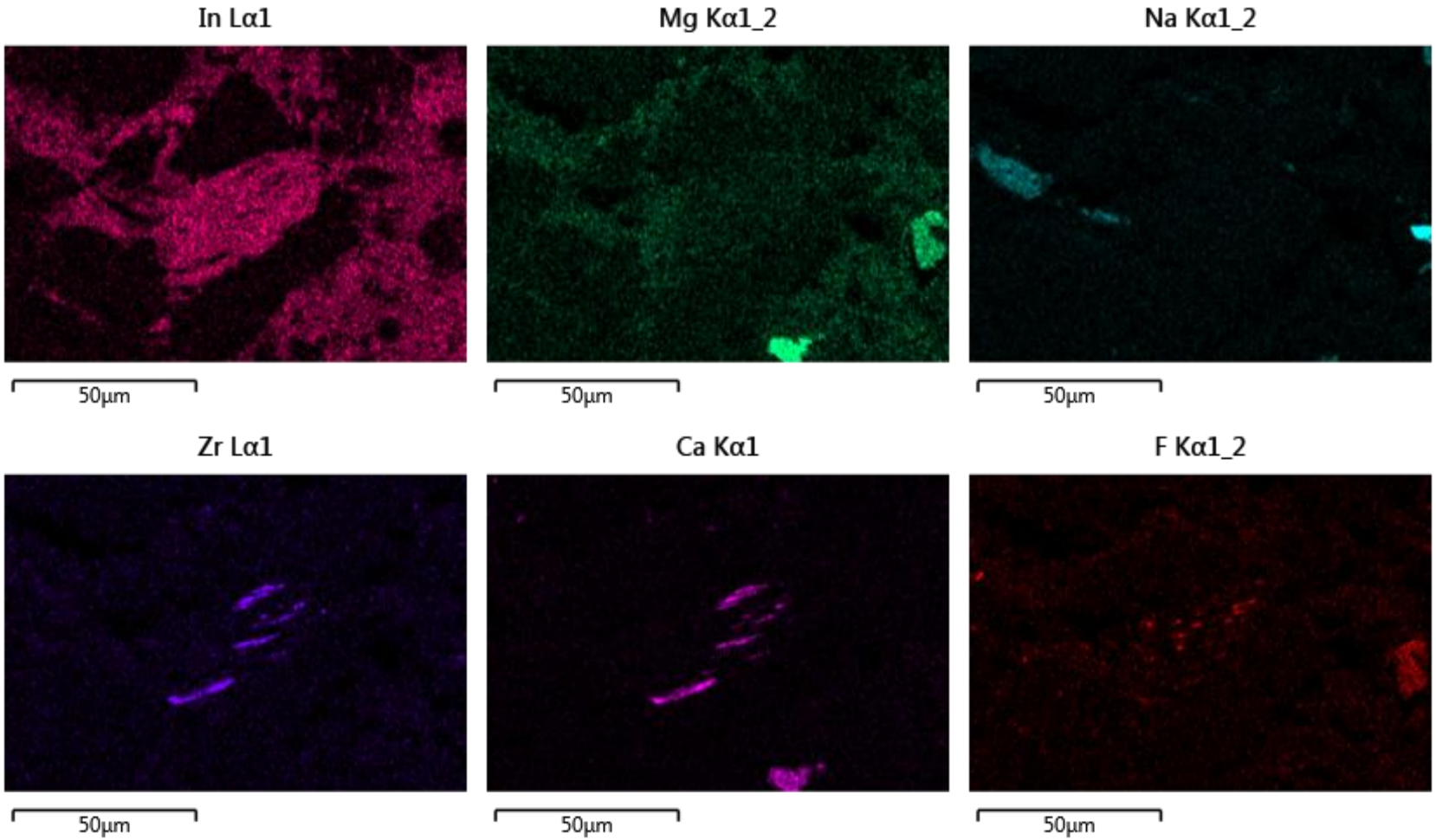

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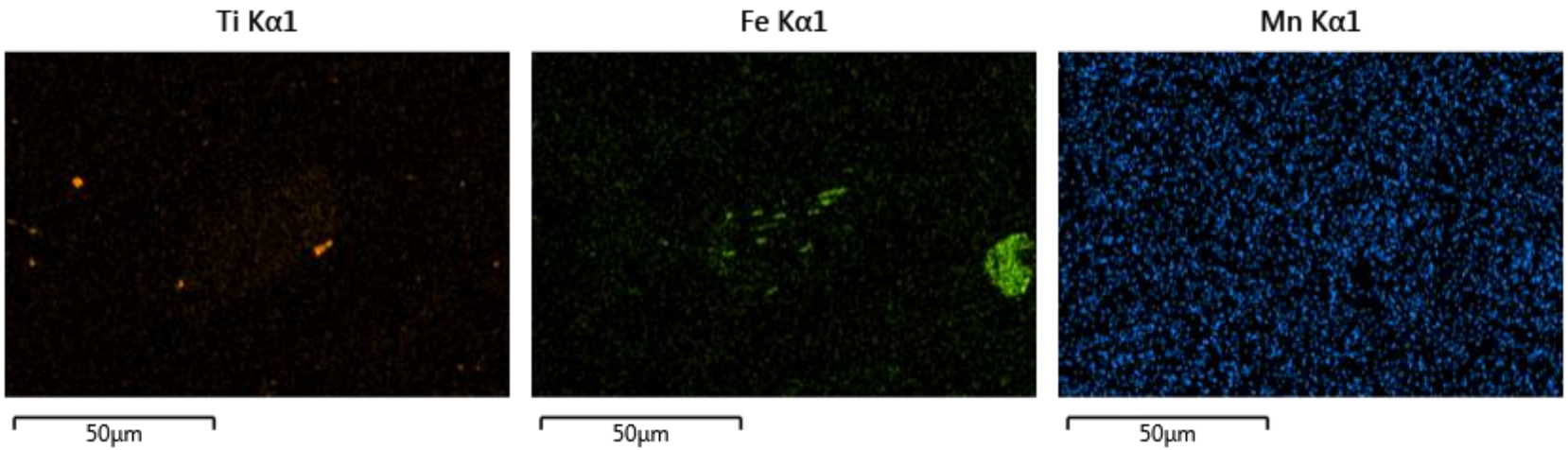

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EDS Layered Image 11



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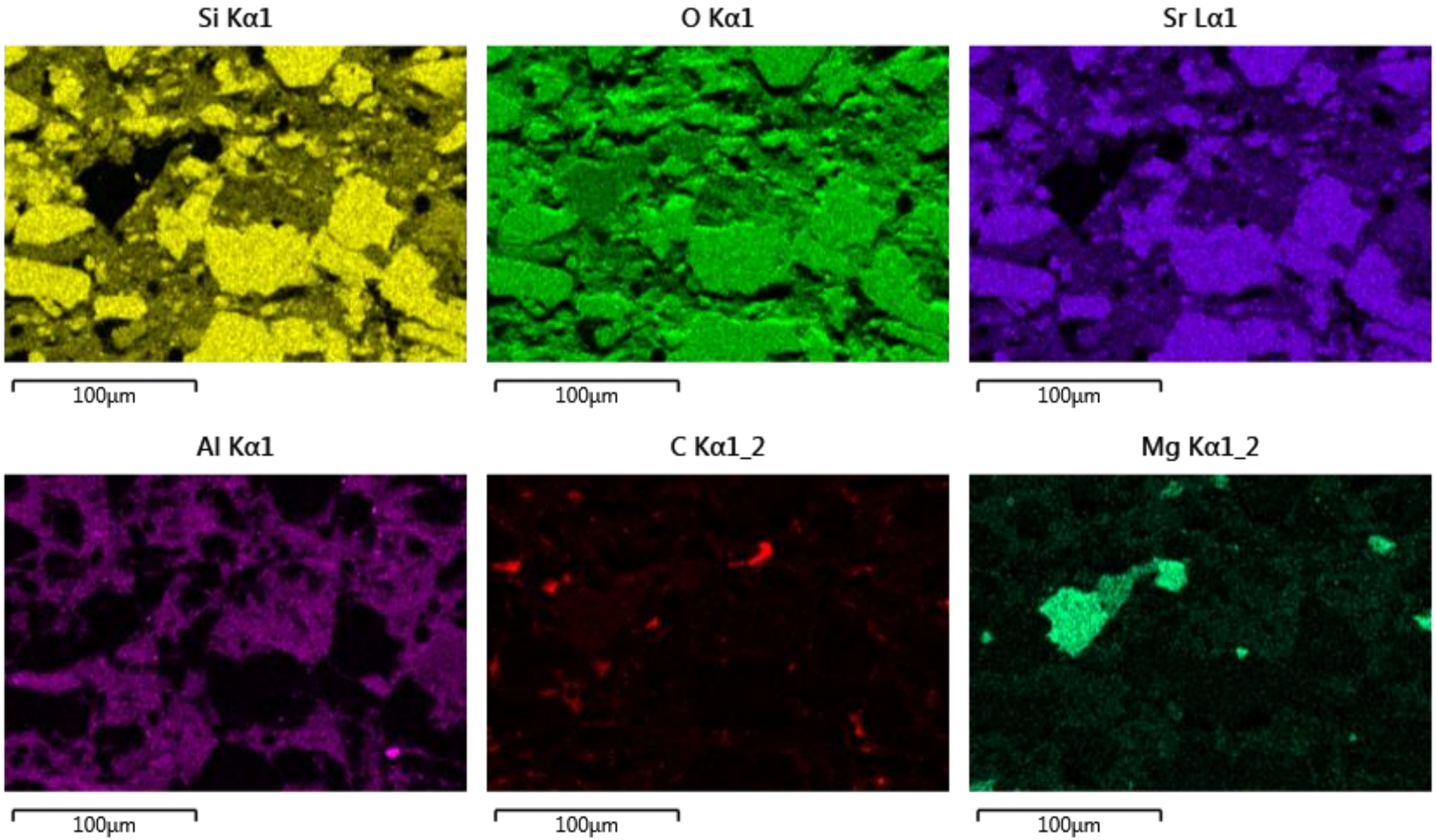
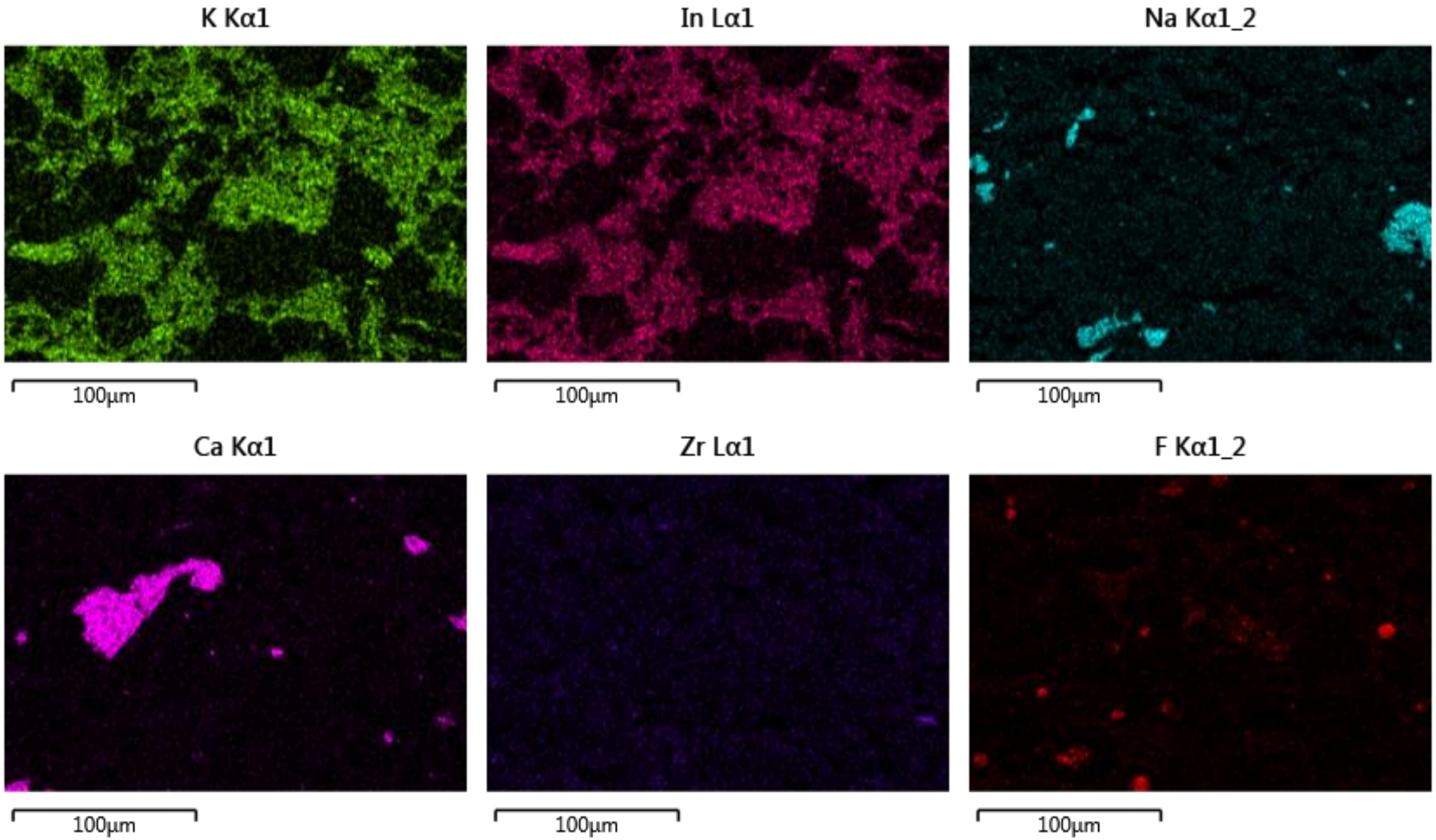

Si Kα1
O Kα1
Sr Lα1
100µm
100µm
100µm
Al Kα1
C Kα1_2
Mg Kα1_2
100µm
100µm
100µm



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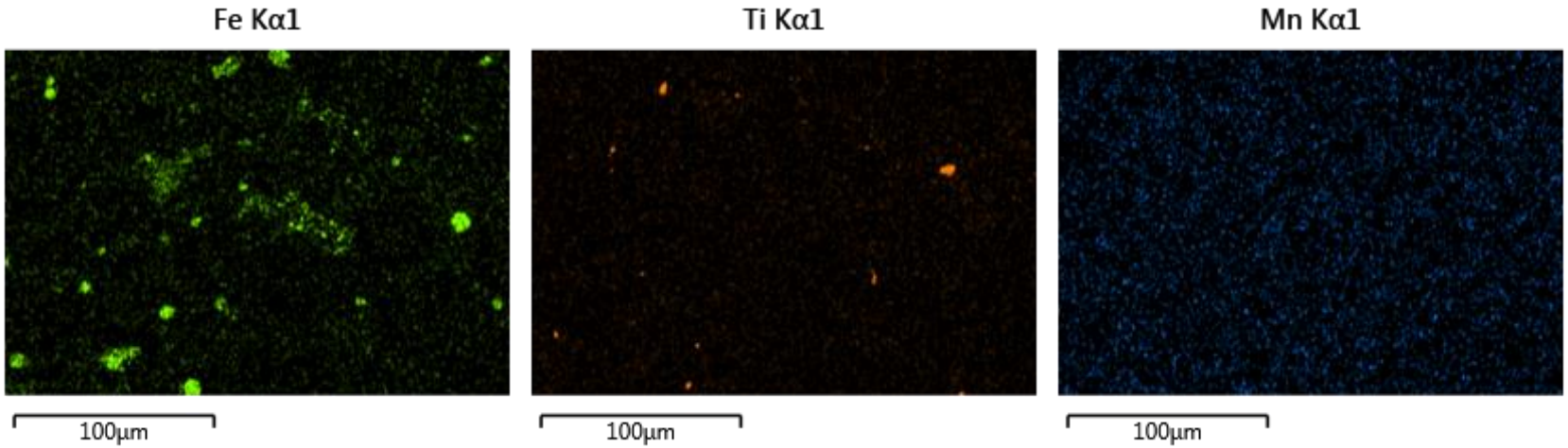
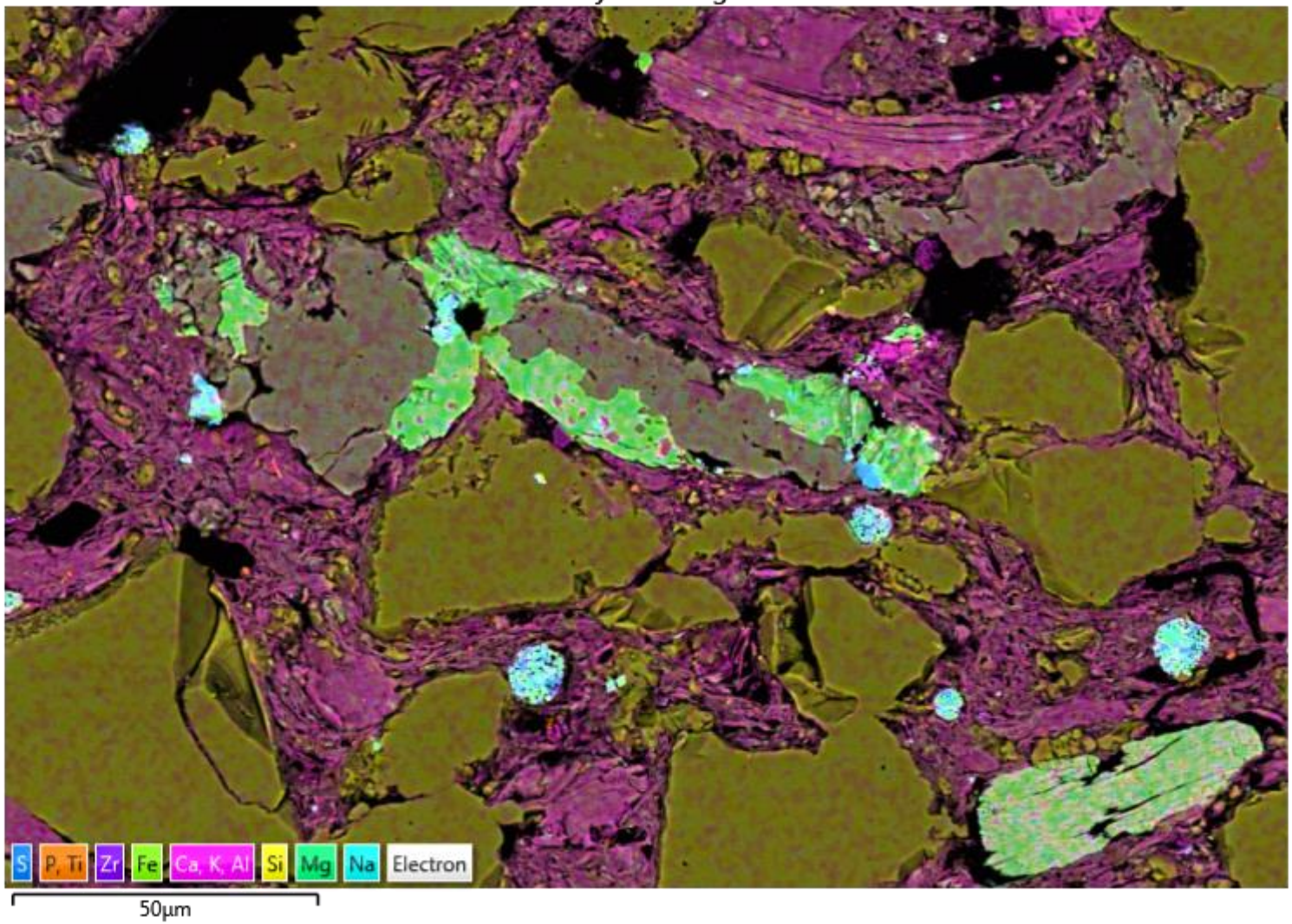

Fe Kα1
Ti Kα1
Mn Kα1
100µm
100µm
100µm

EDS Layered Image 12



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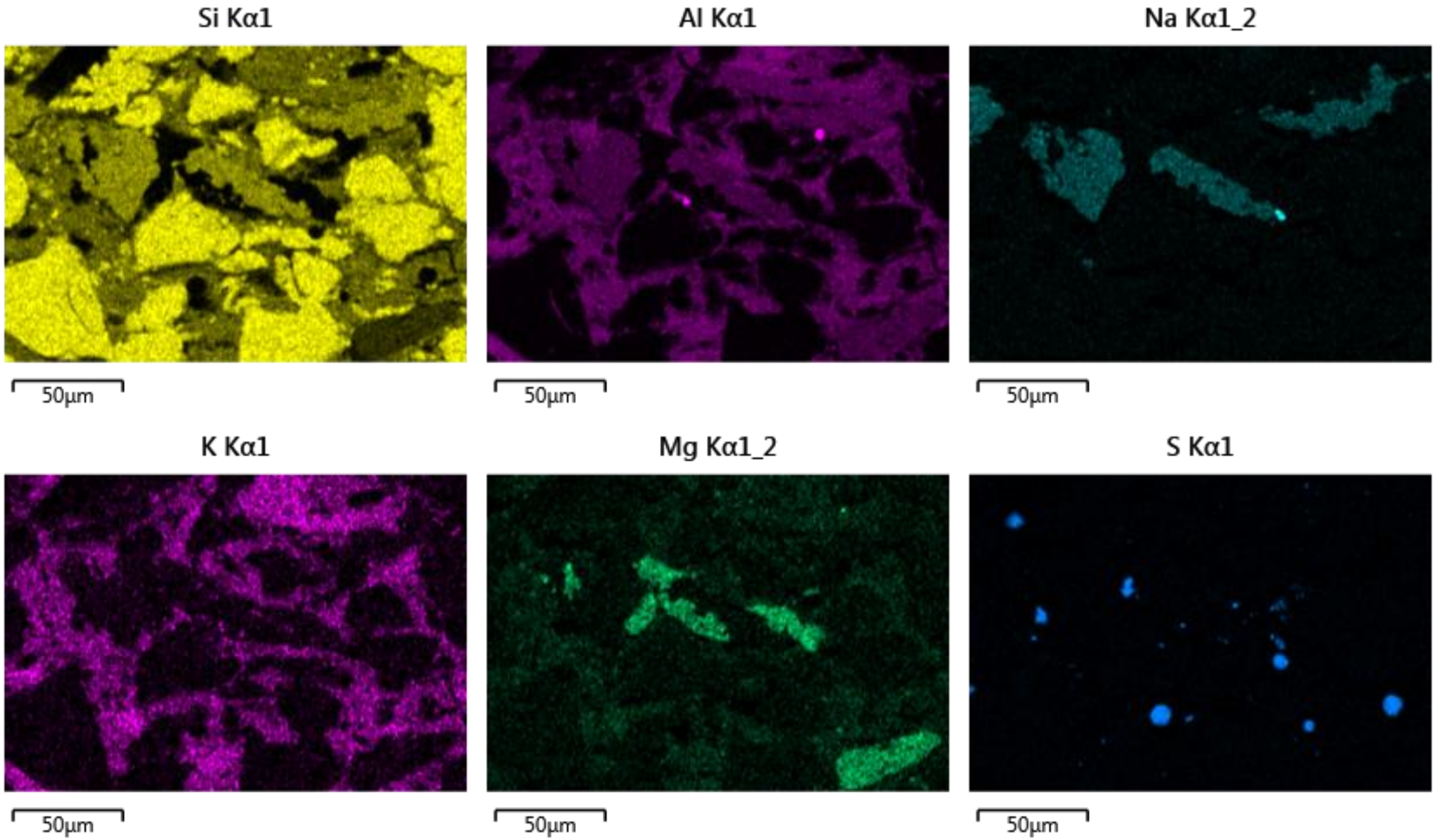

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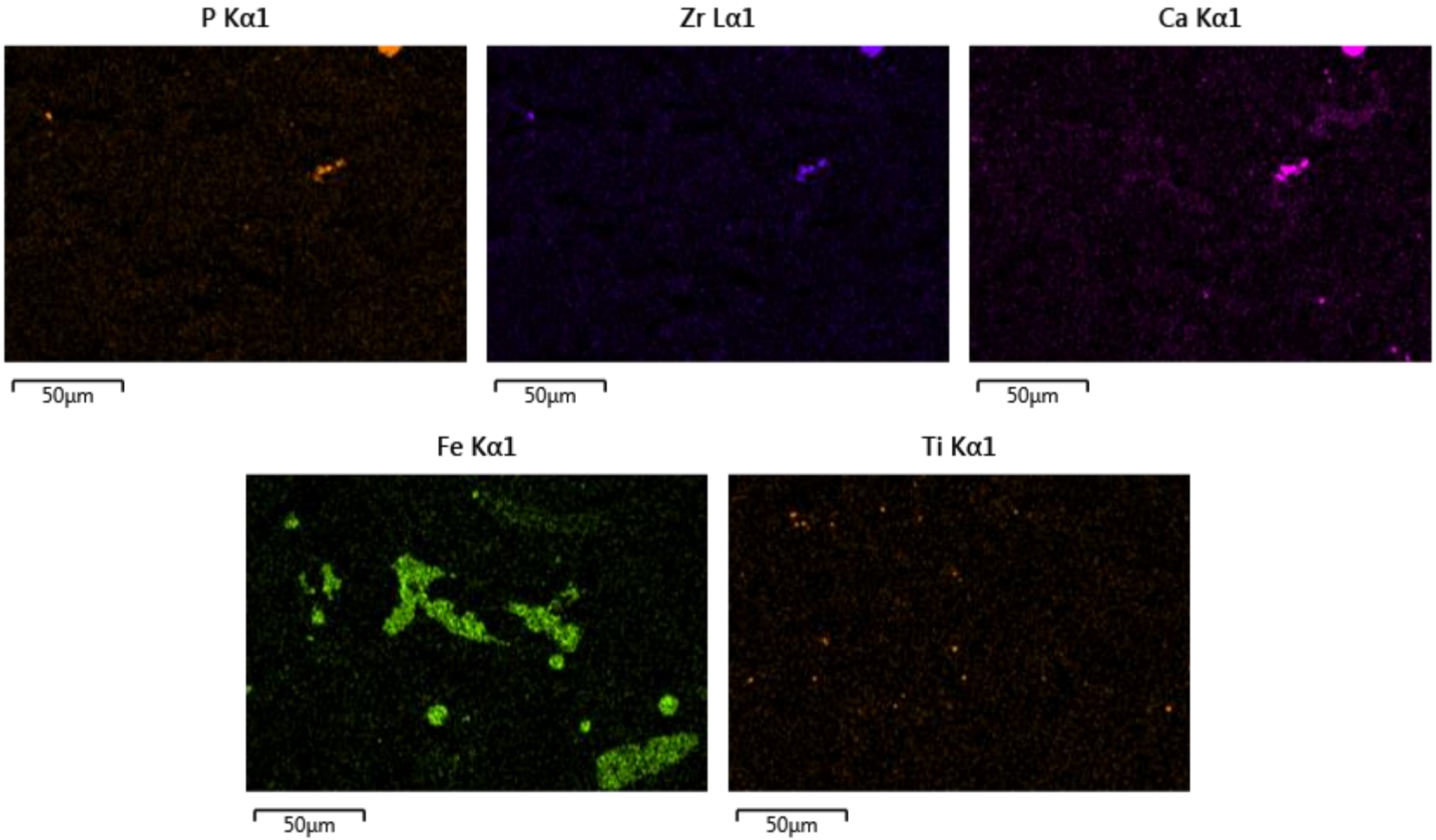

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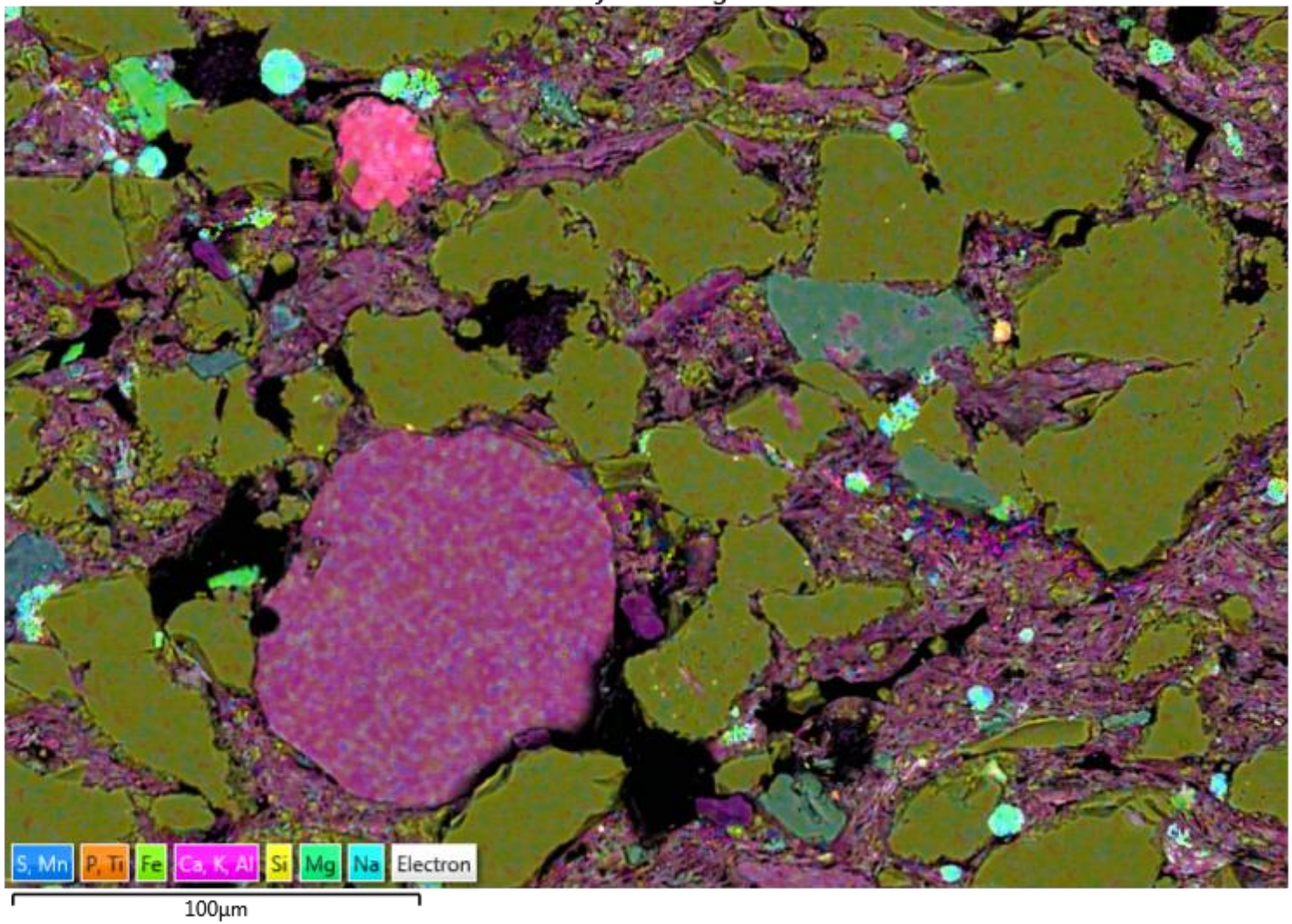
EDS Layered Image 13



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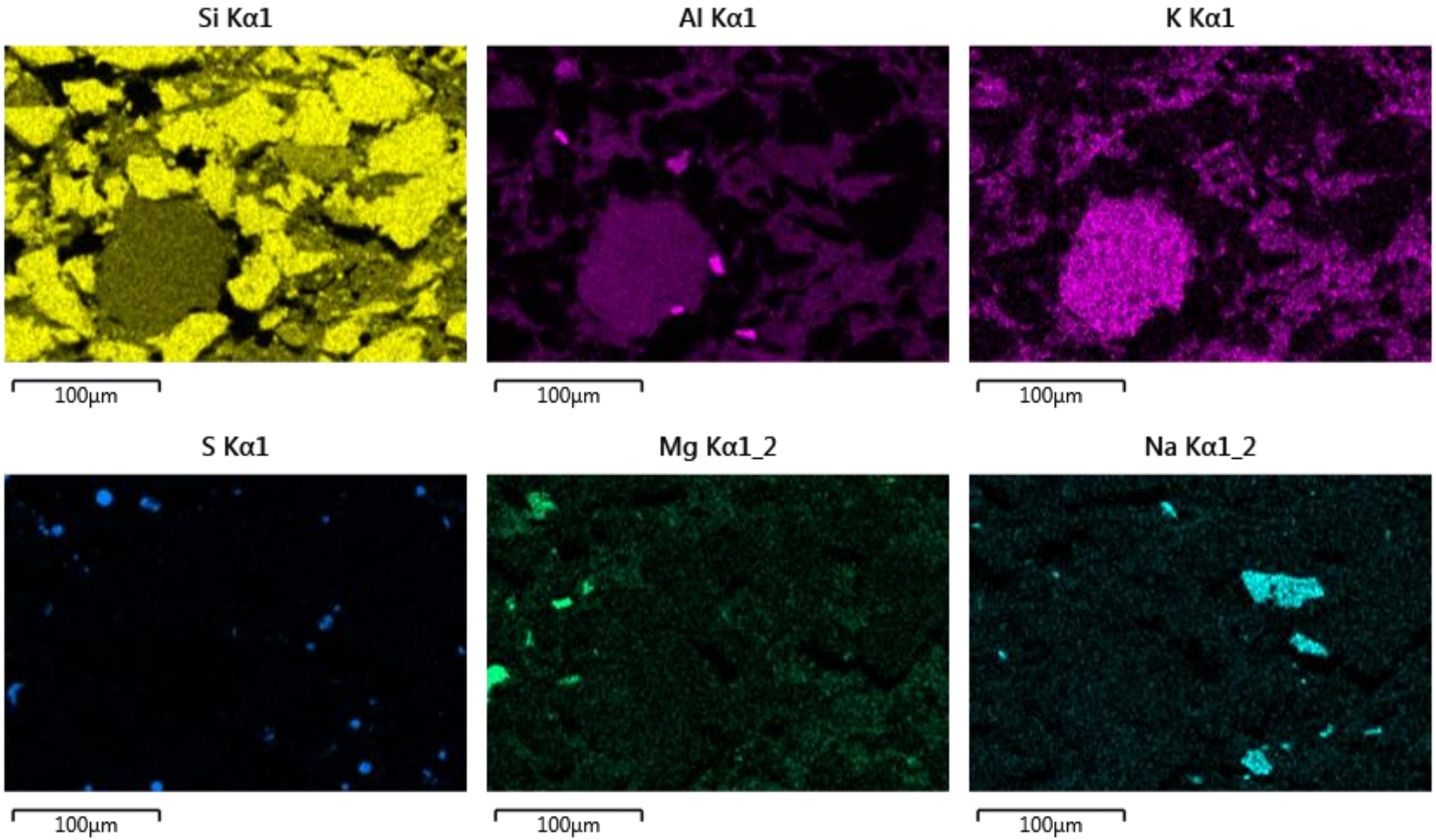

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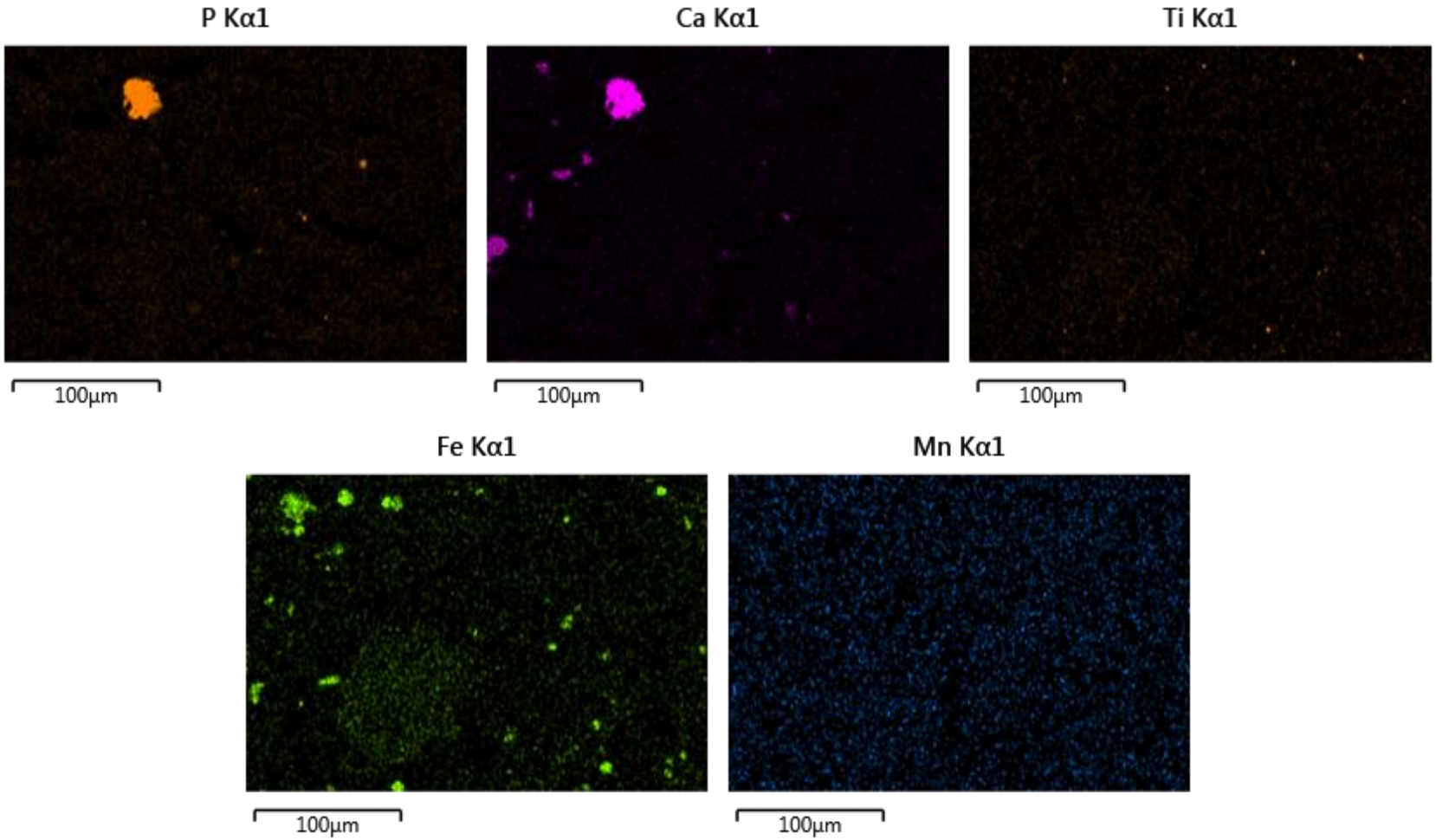

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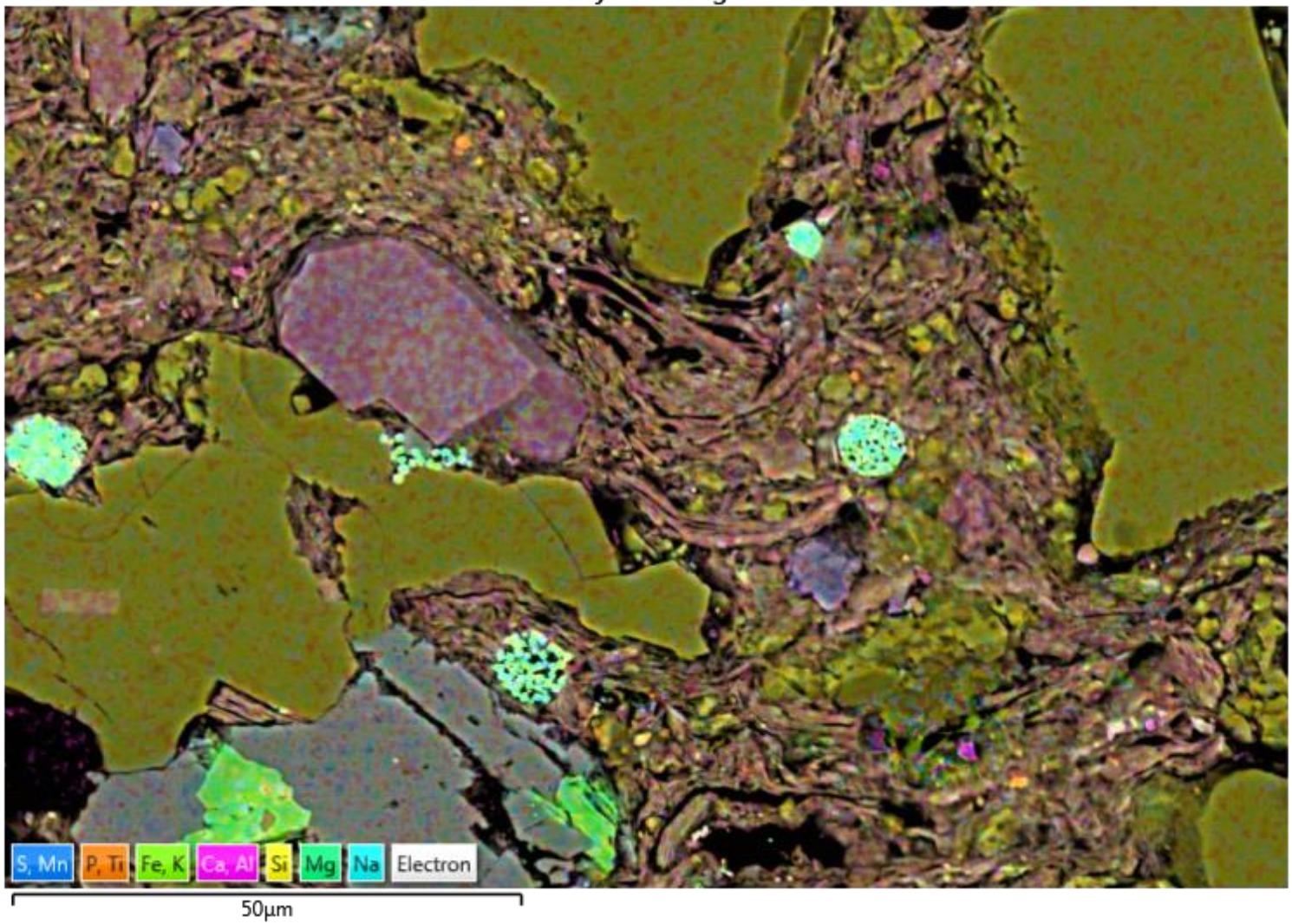
EDS Layered Image 14



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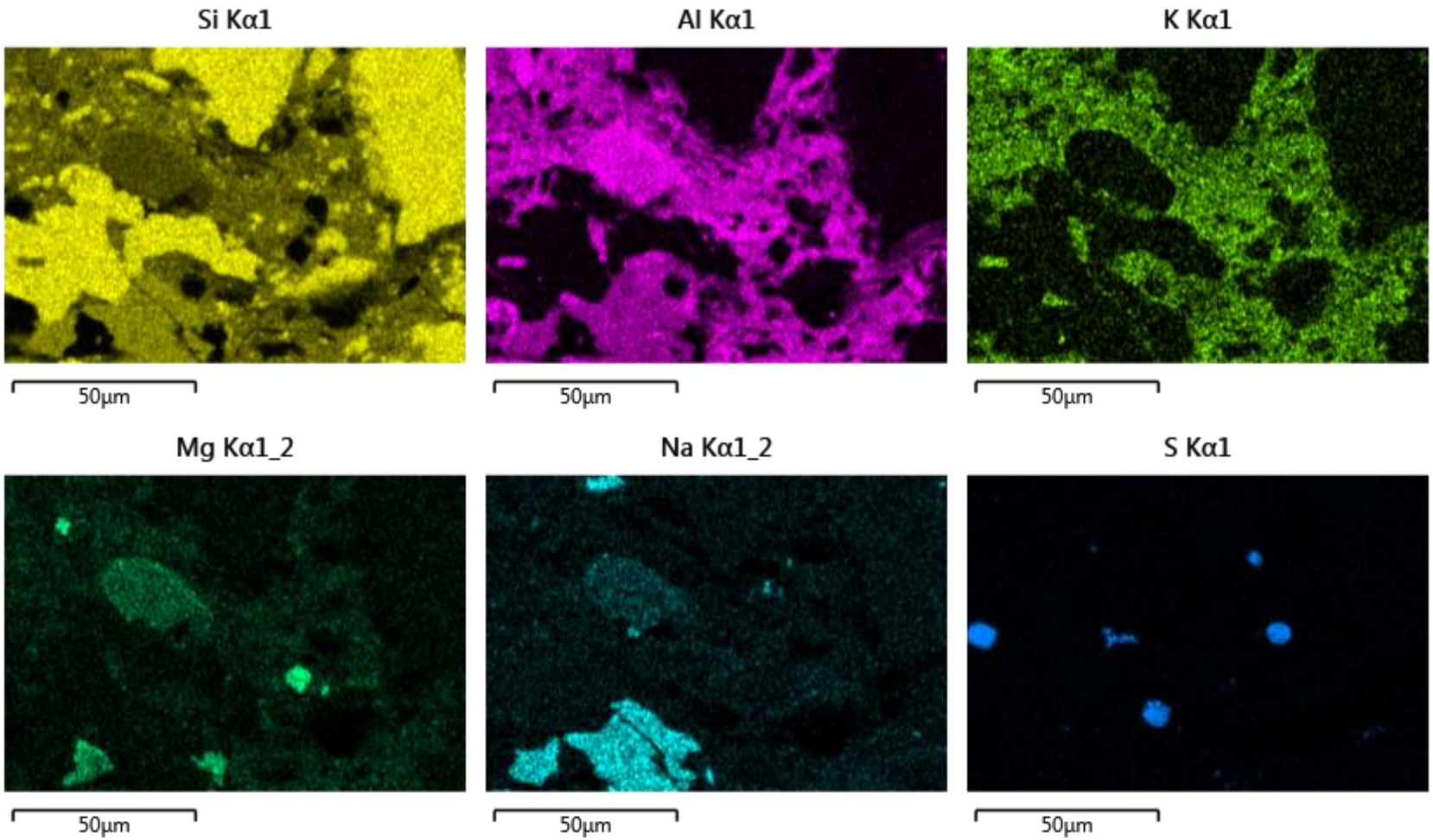

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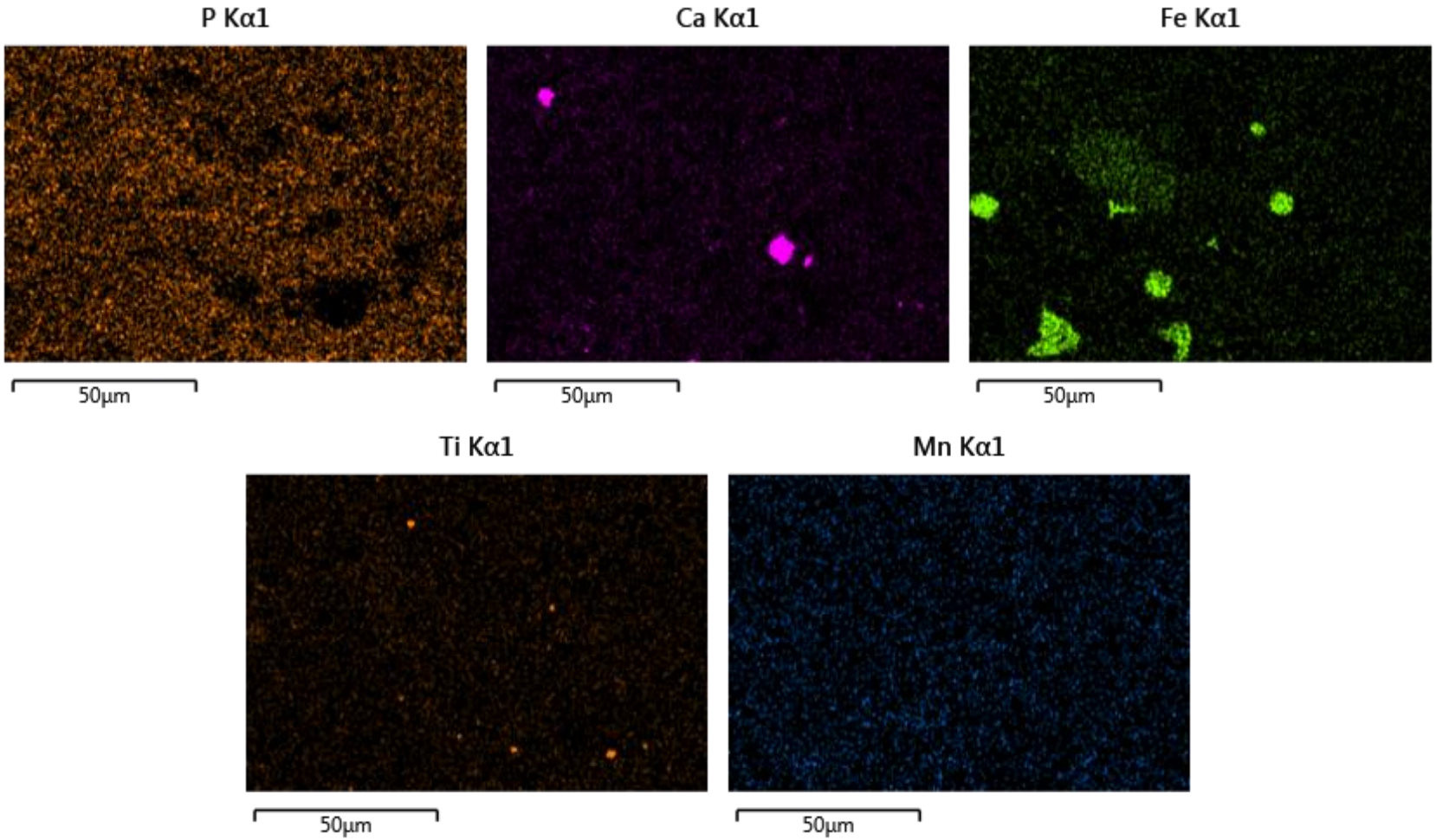

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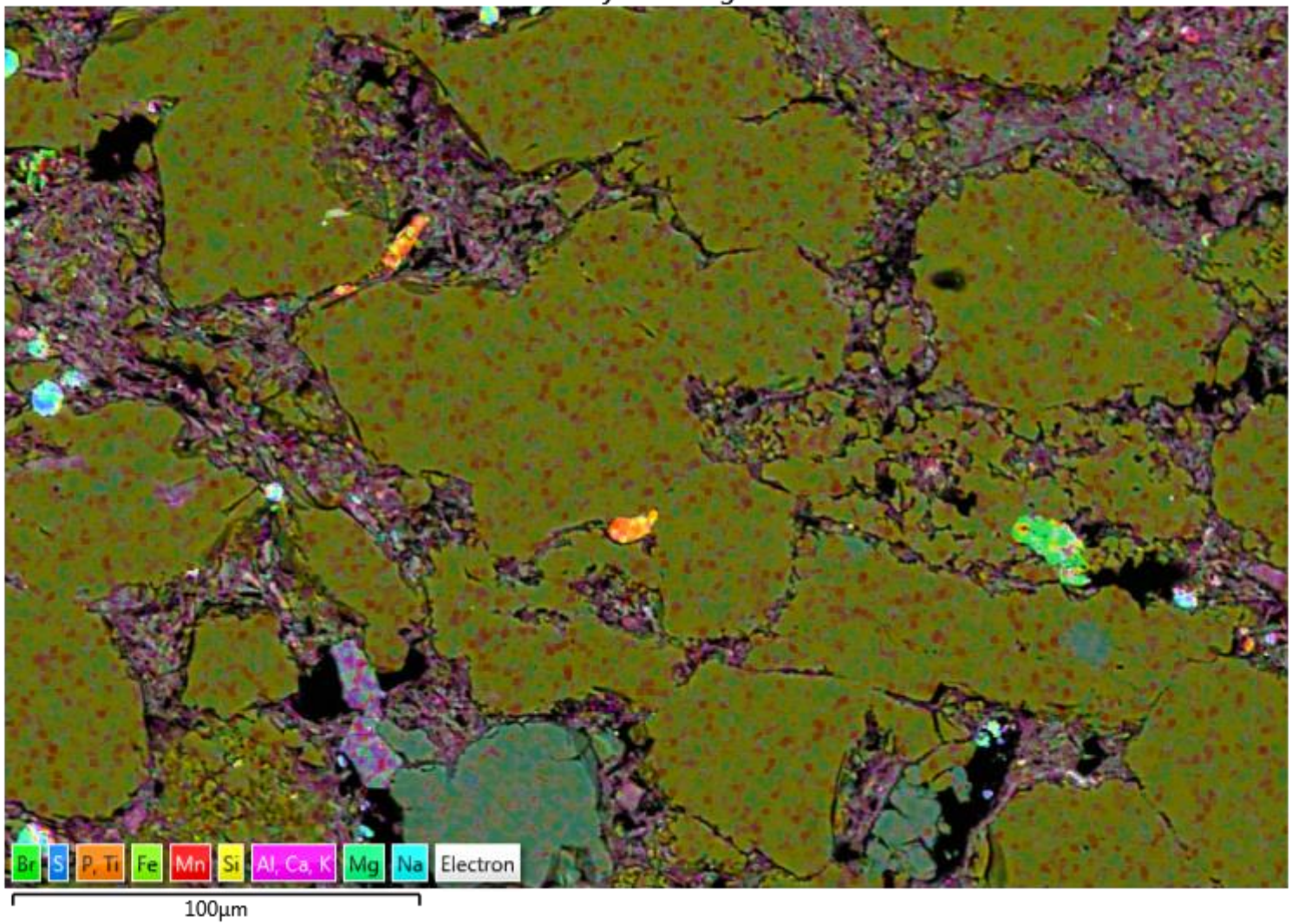
EDS Layered Image 2



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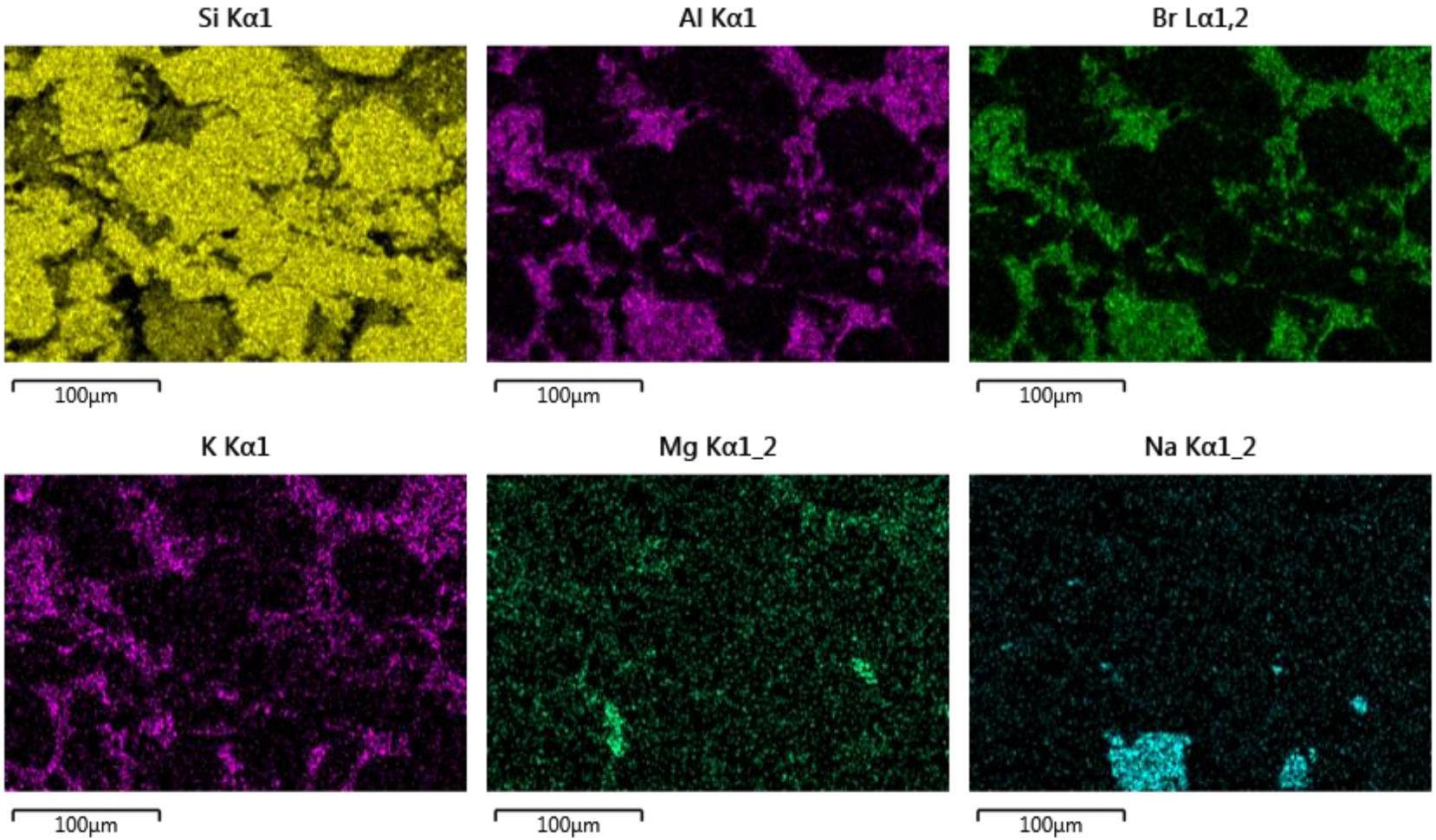

OXFORD INSTRUMENTS
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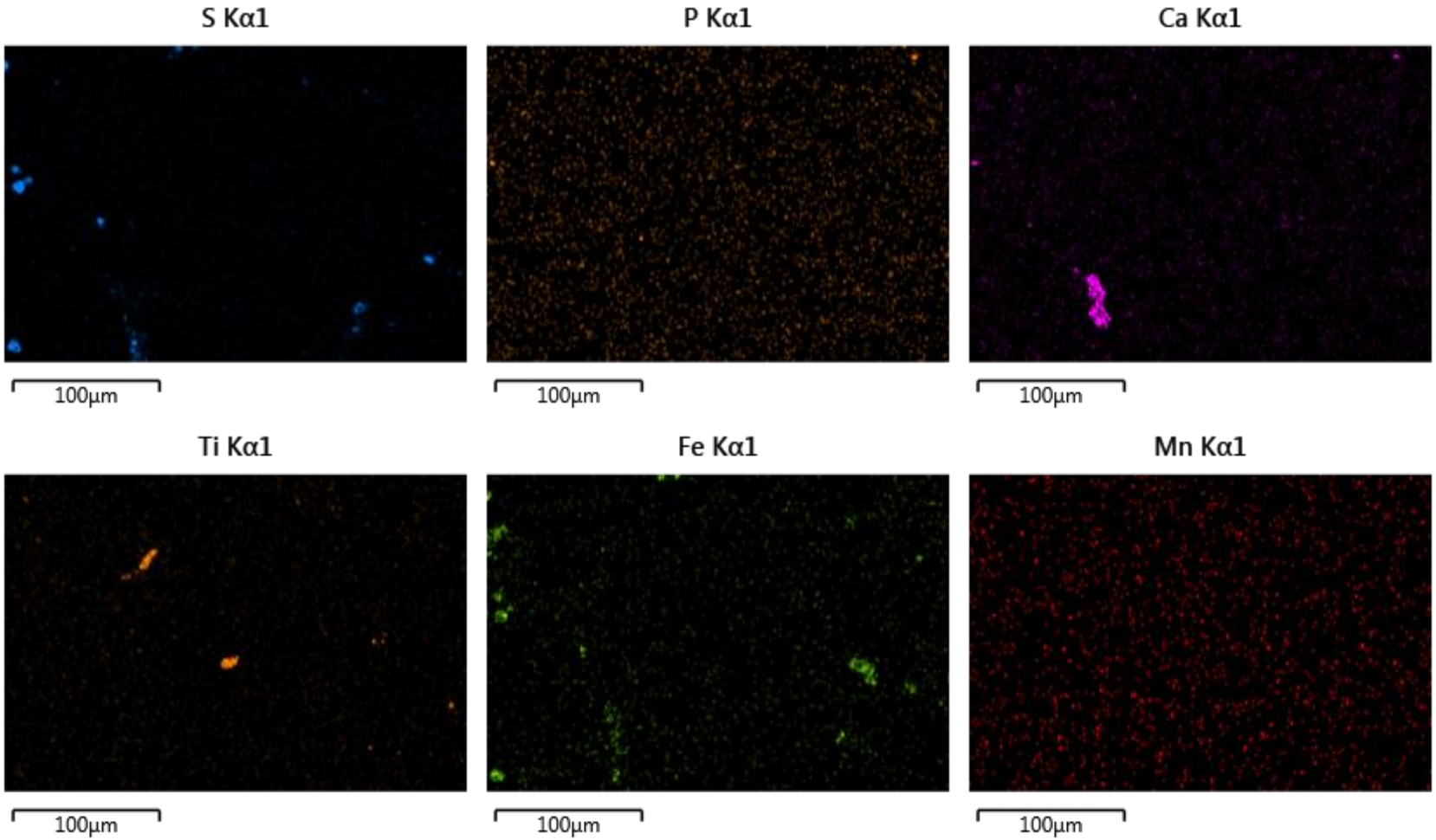

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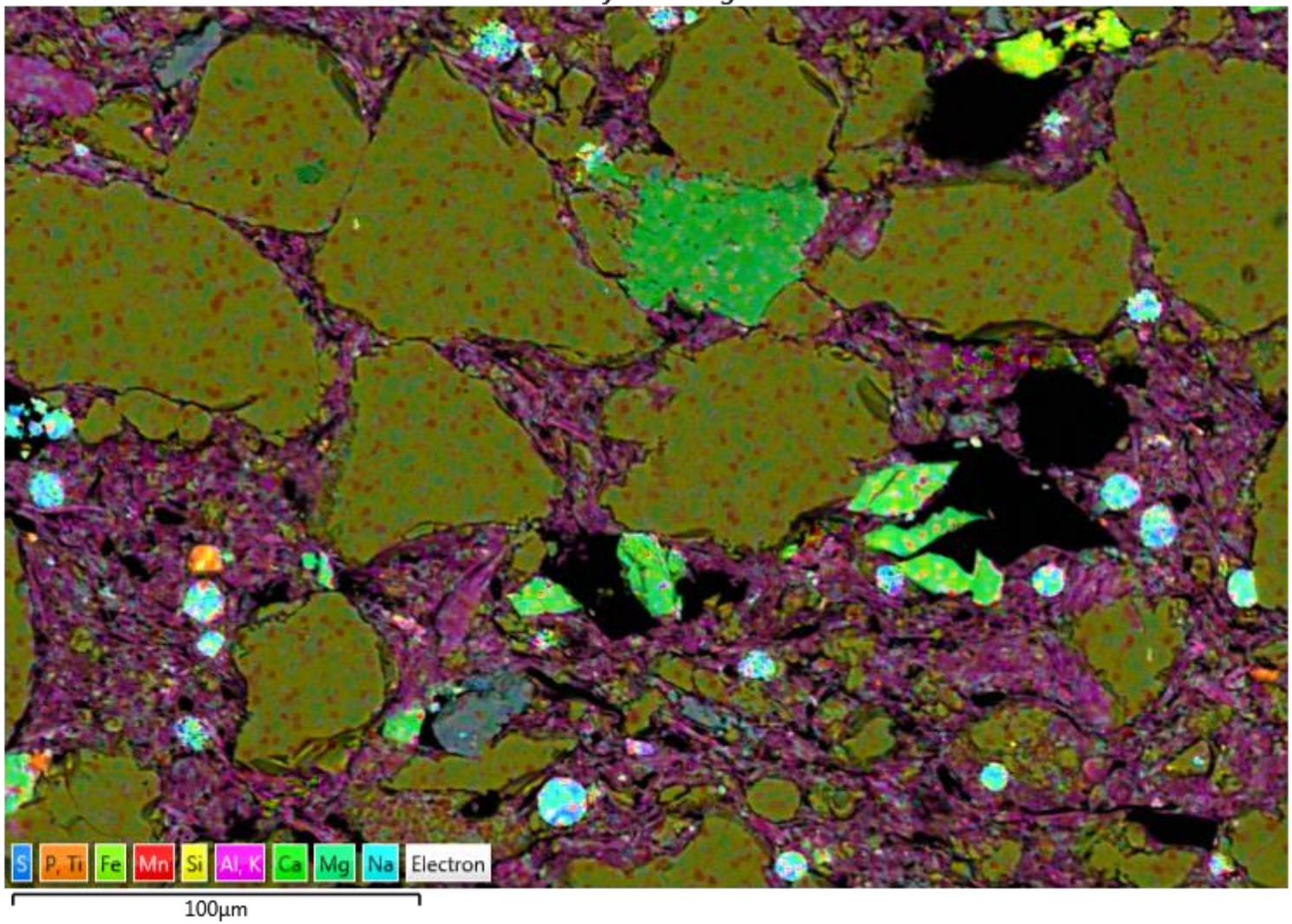
EDS Layered Image 3



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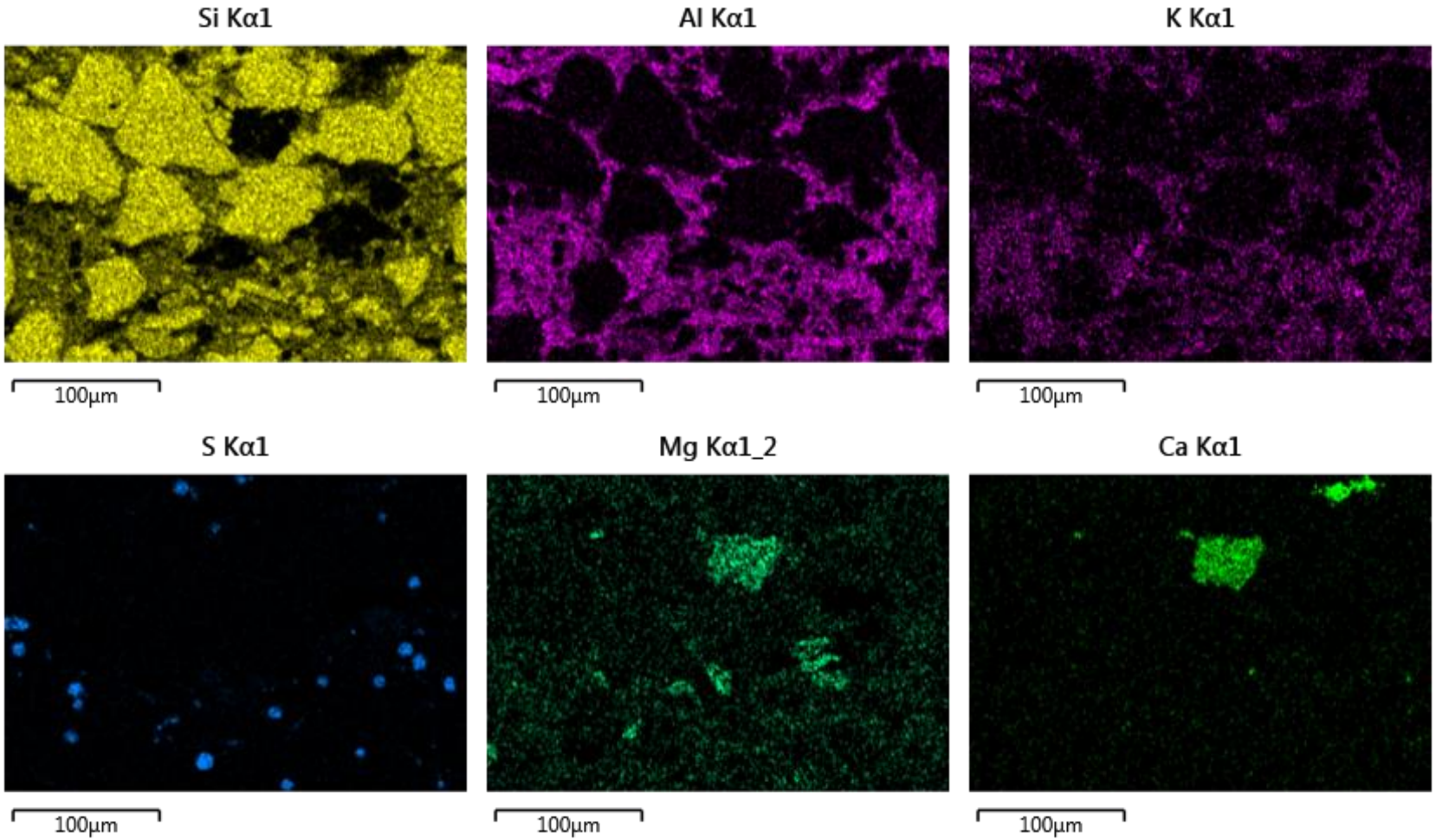

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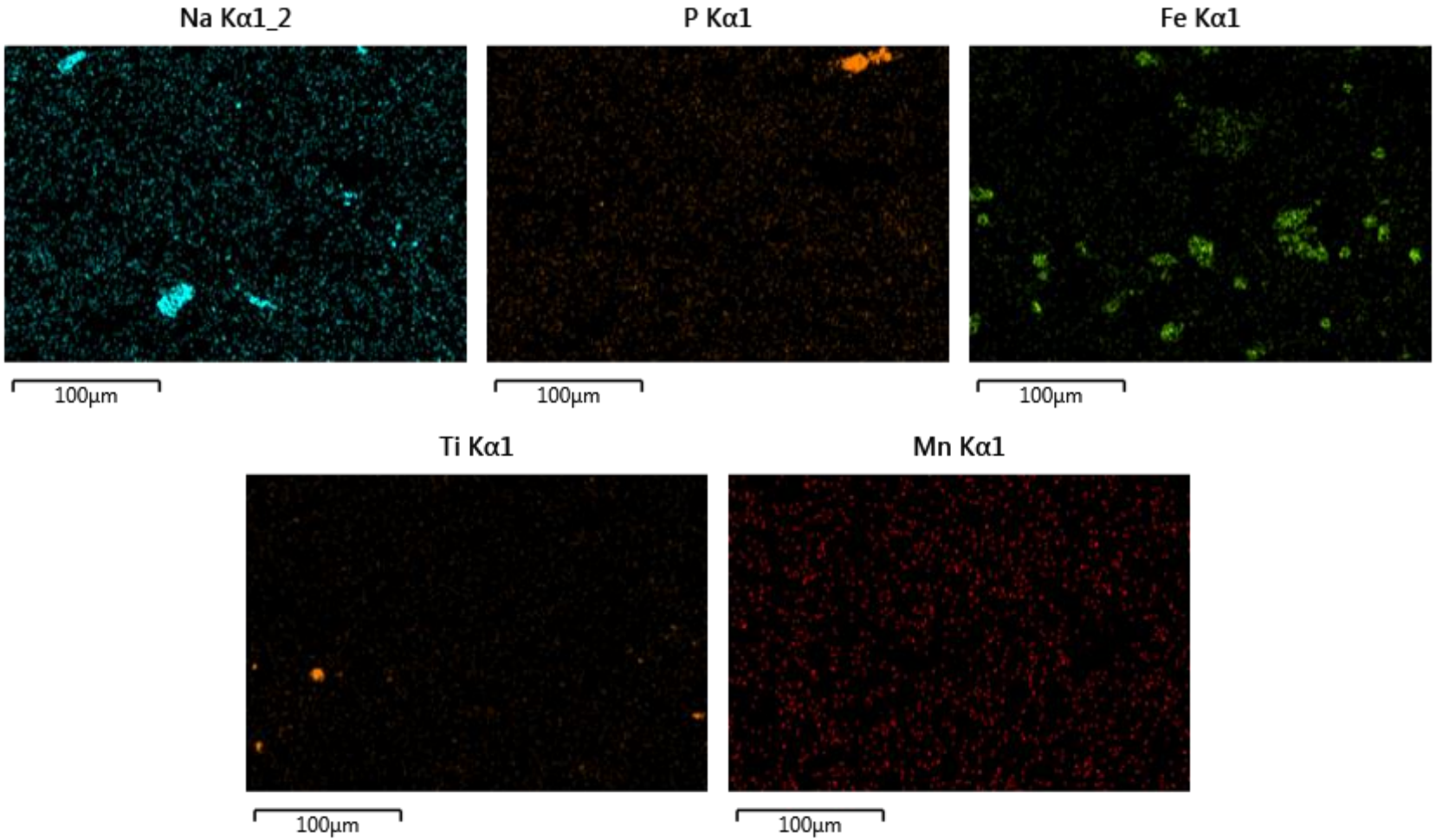
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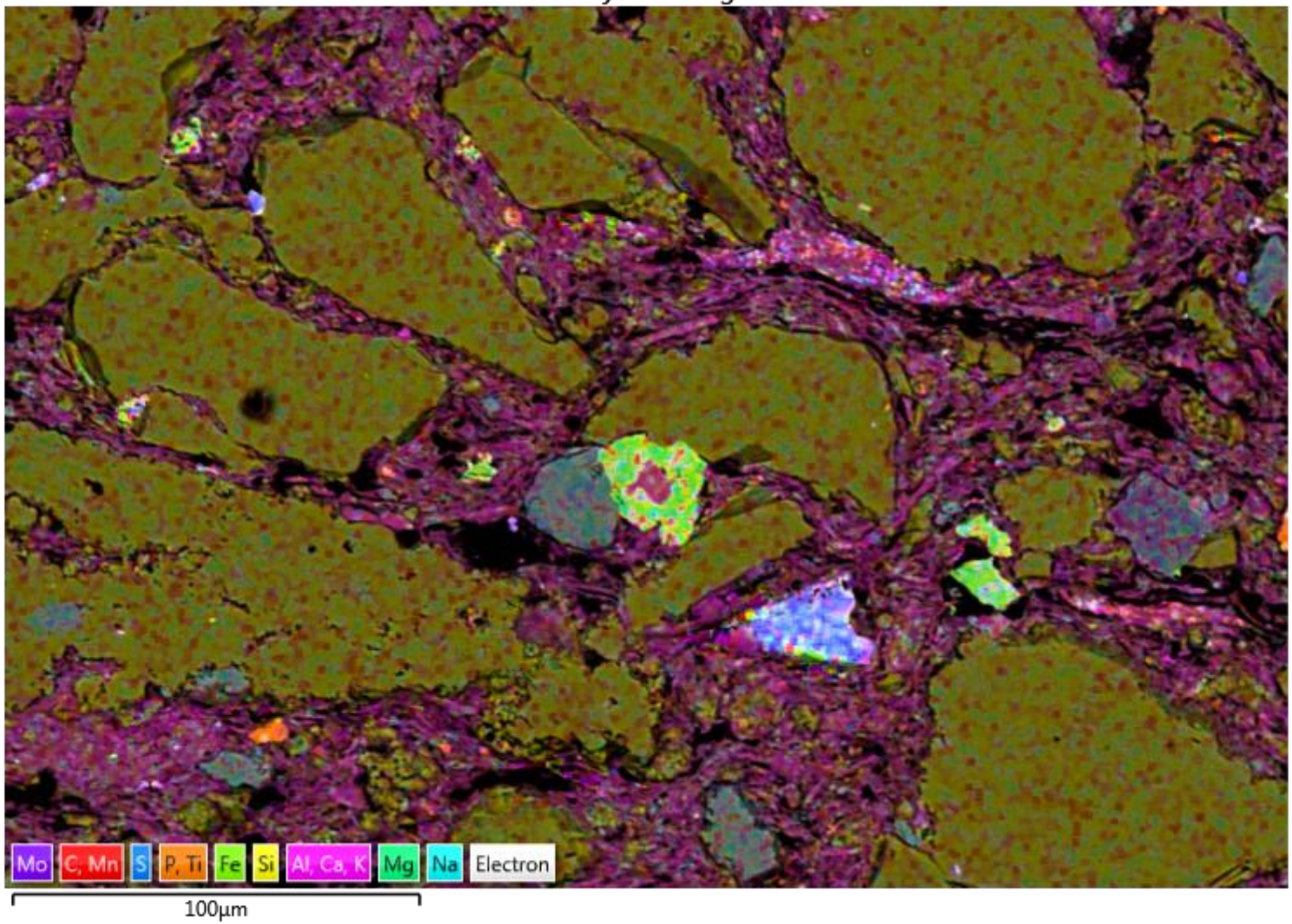
Fe Kα1
100µm
100µm
100µm
Ti Kα1
Mn Kα1
100µm
100µm

EDS Layered Image 4



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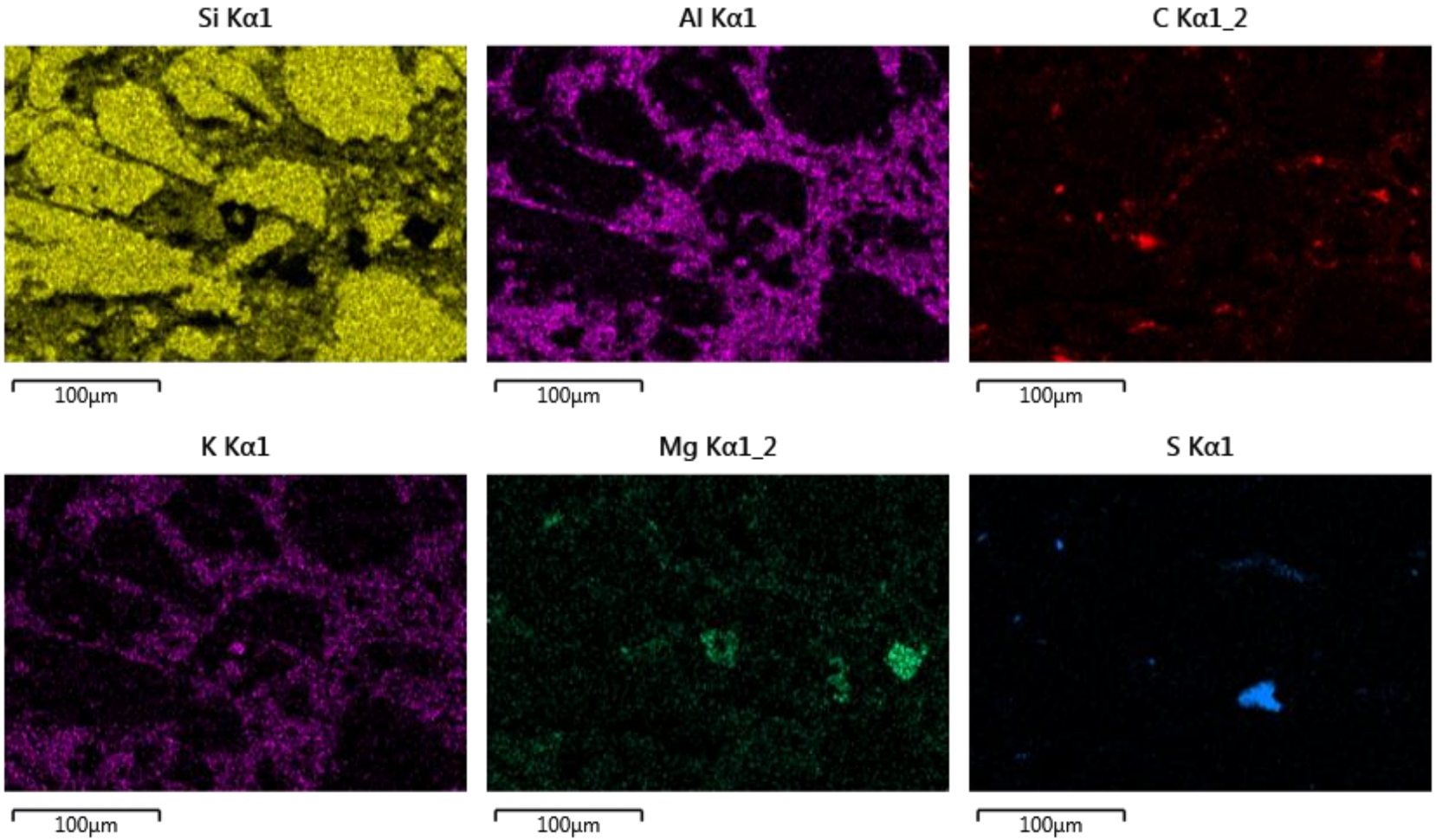

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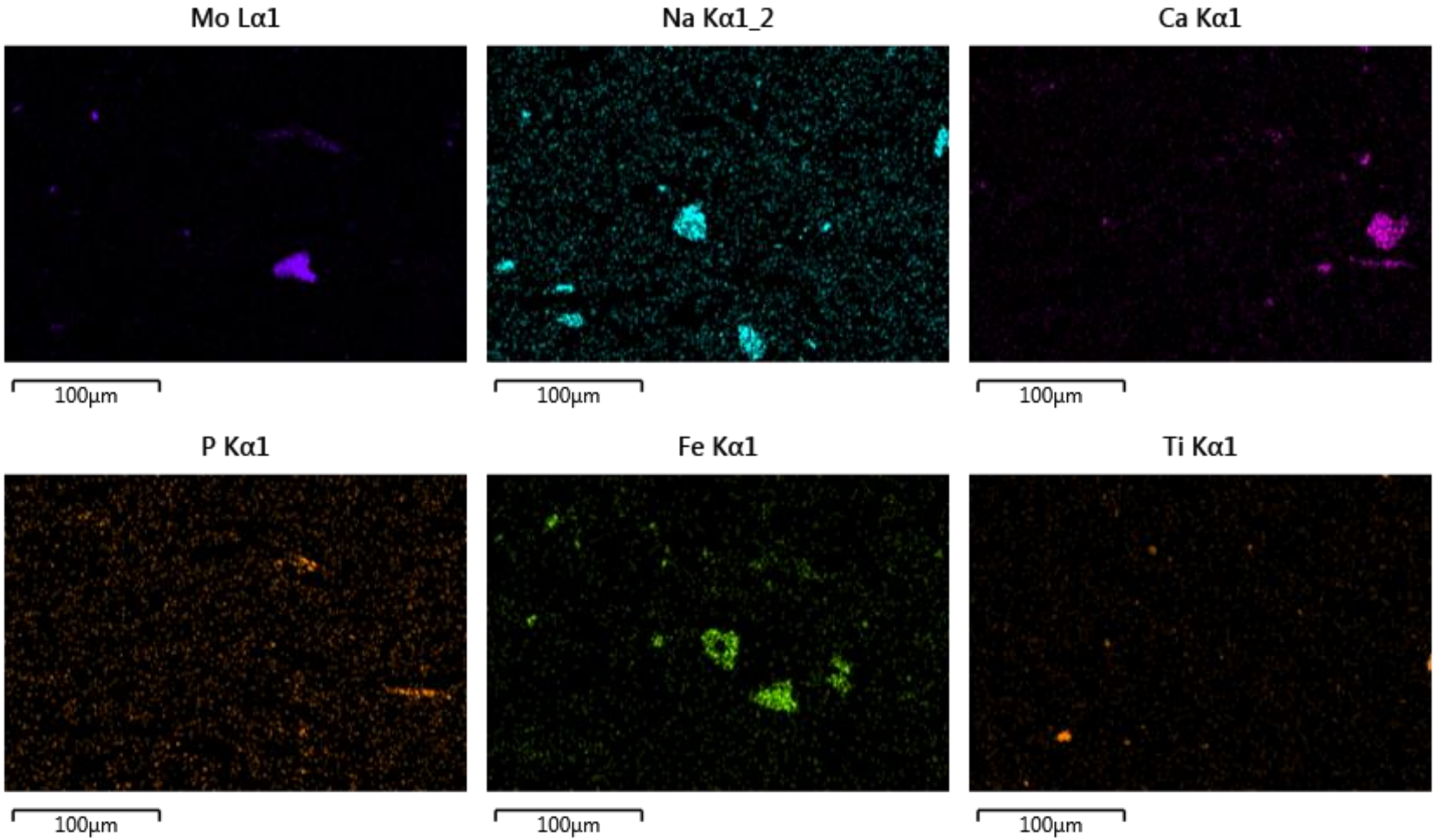

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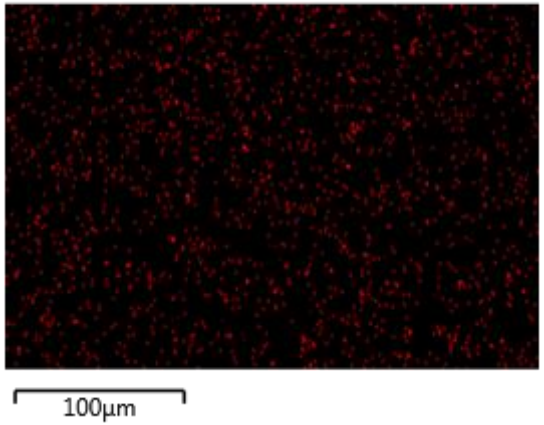
Mn Kα1



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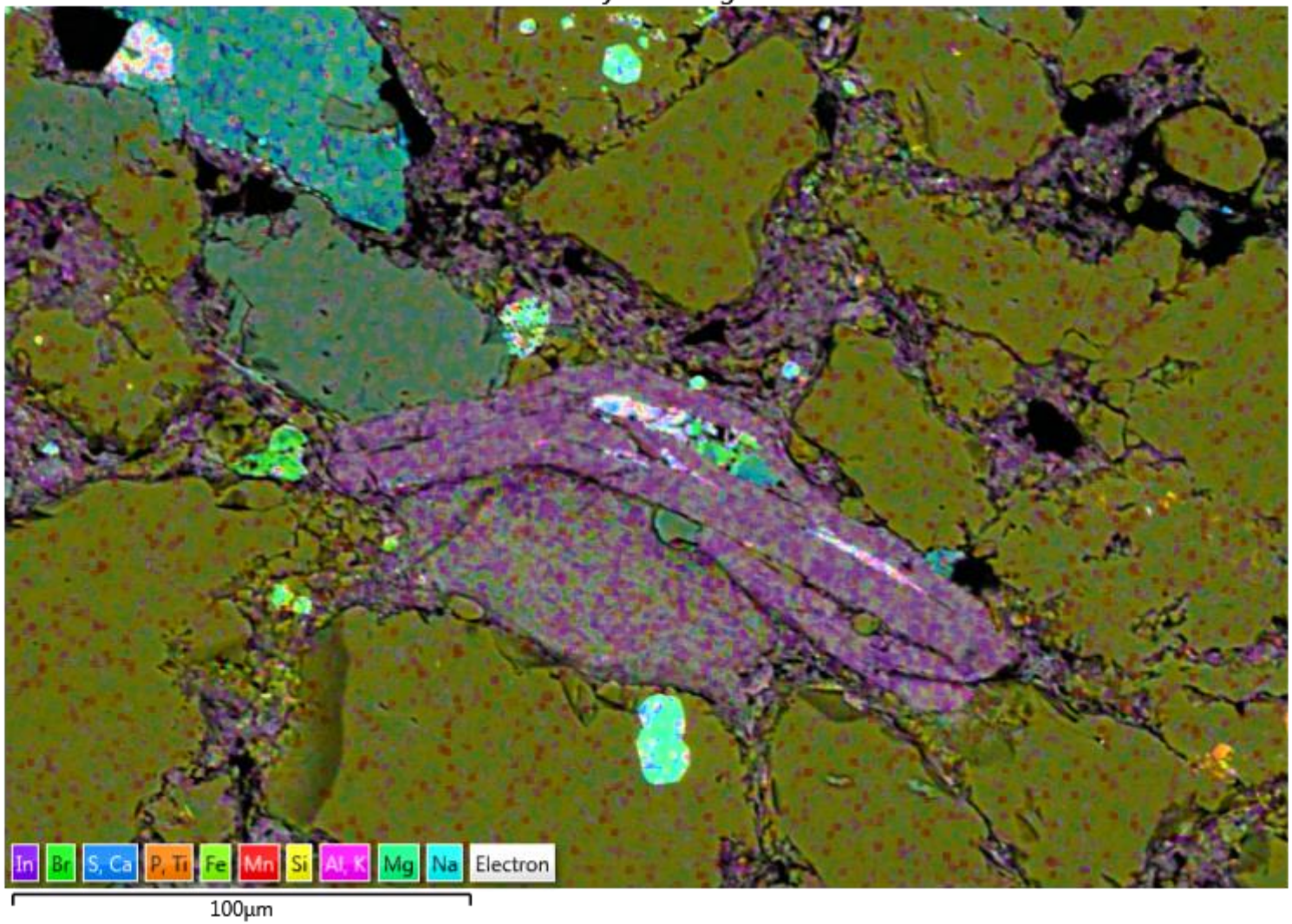

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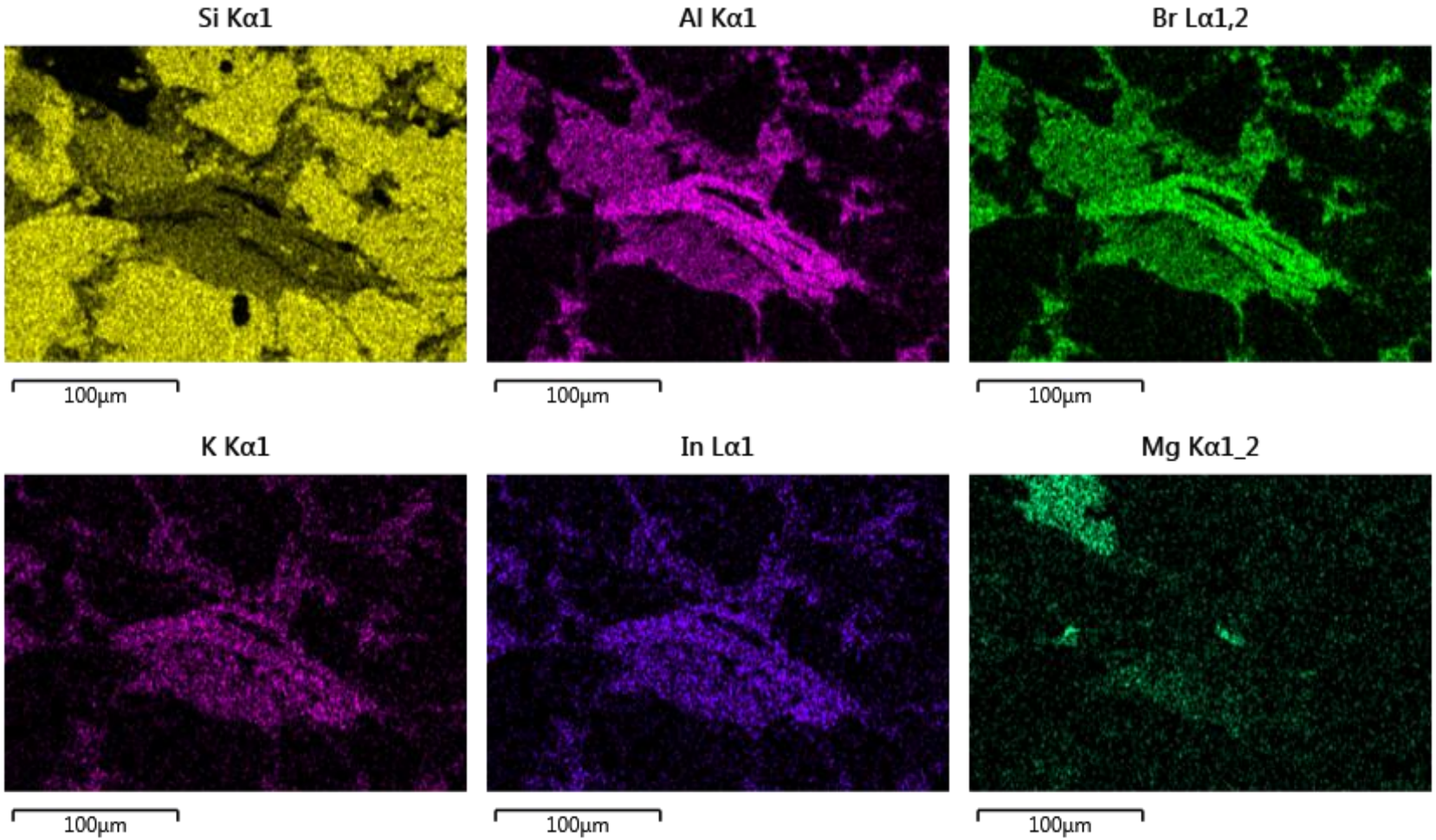

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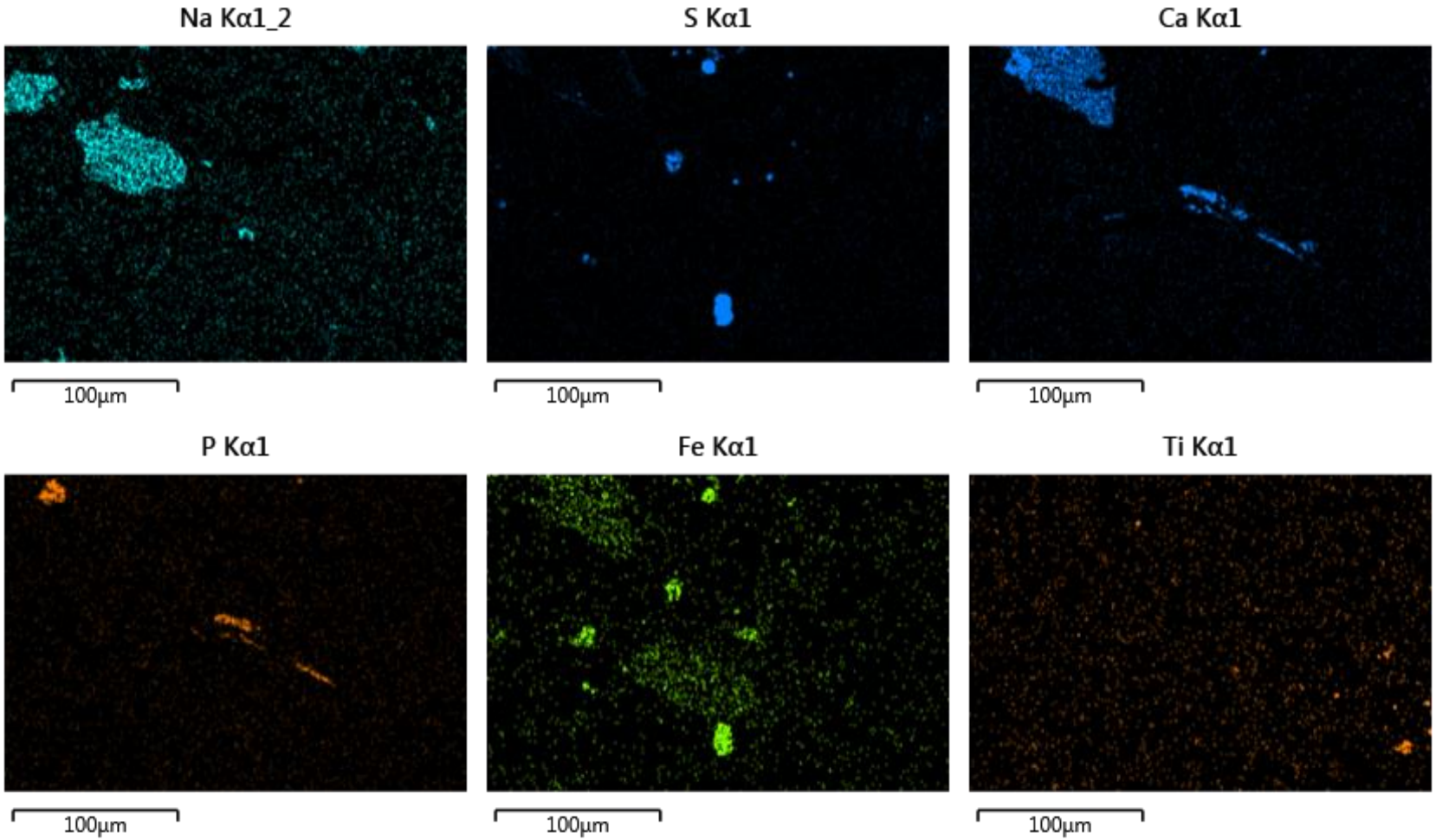

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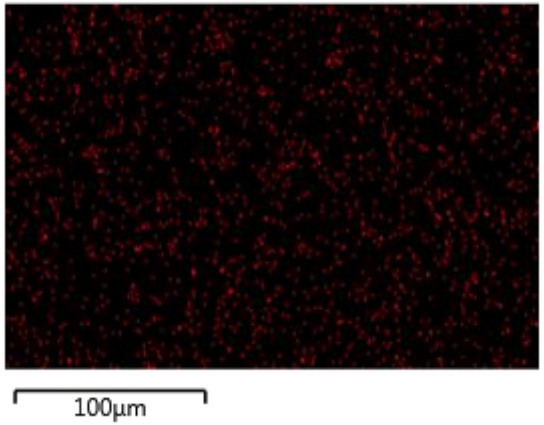
Mn Kα1



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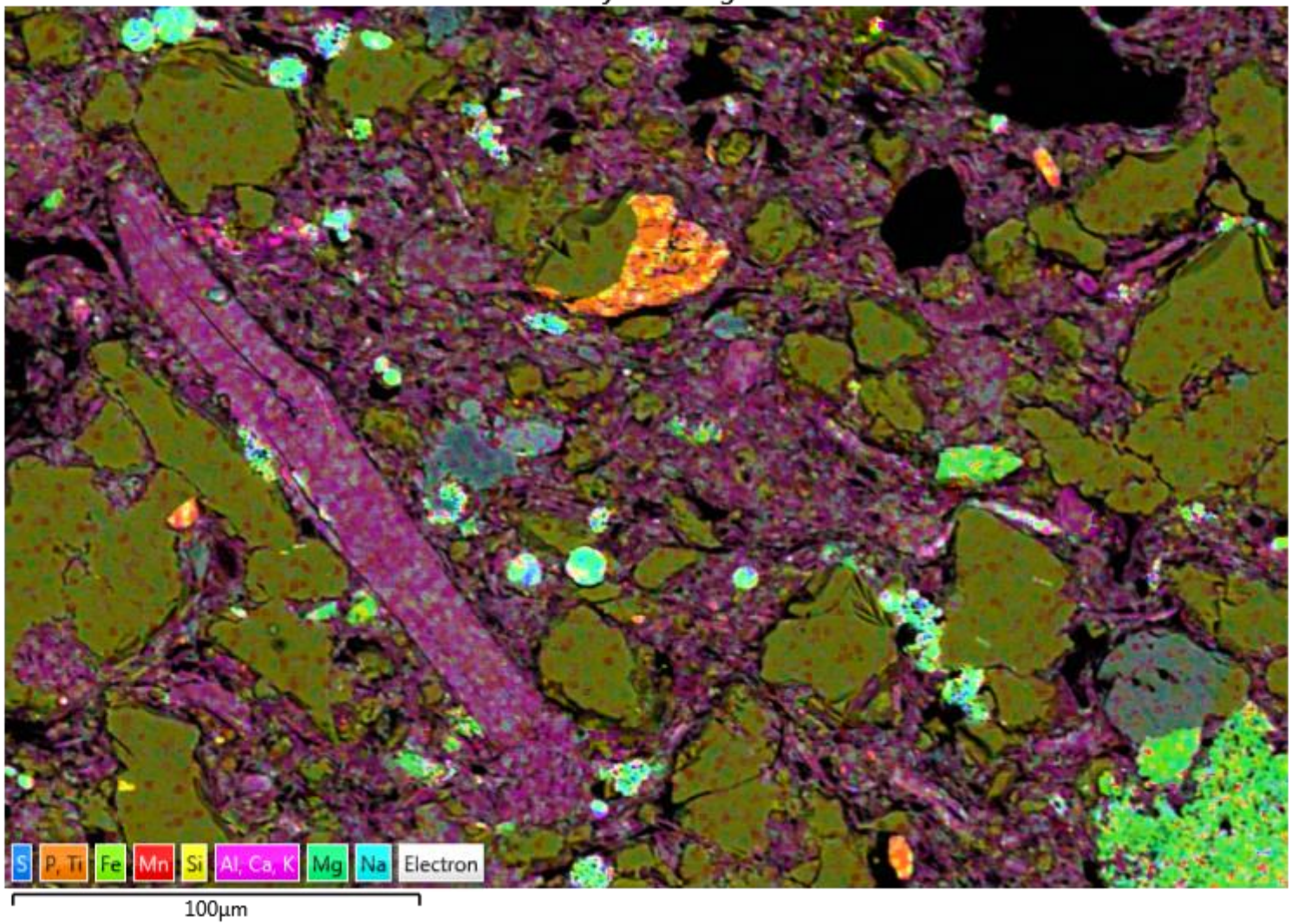

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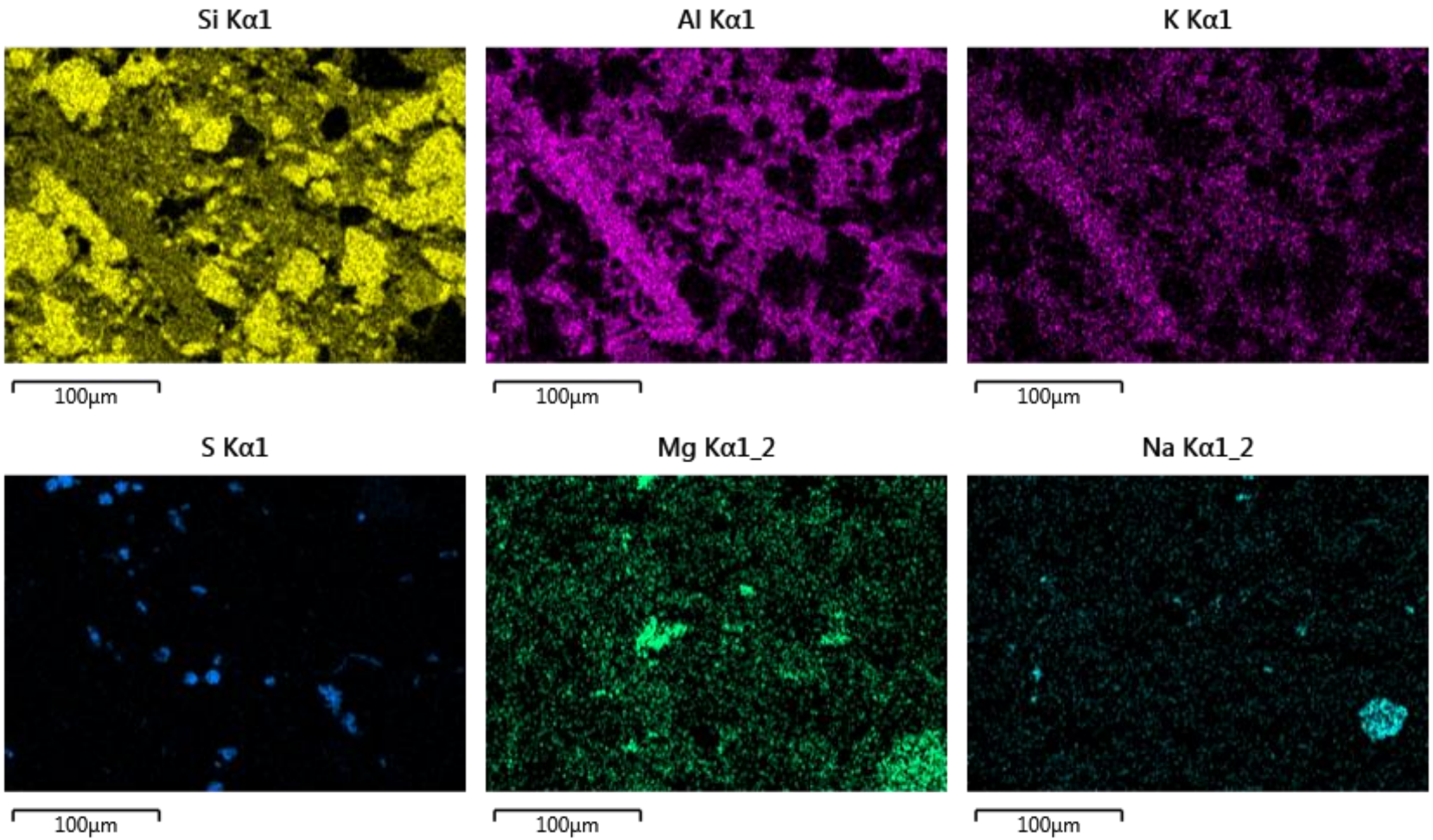

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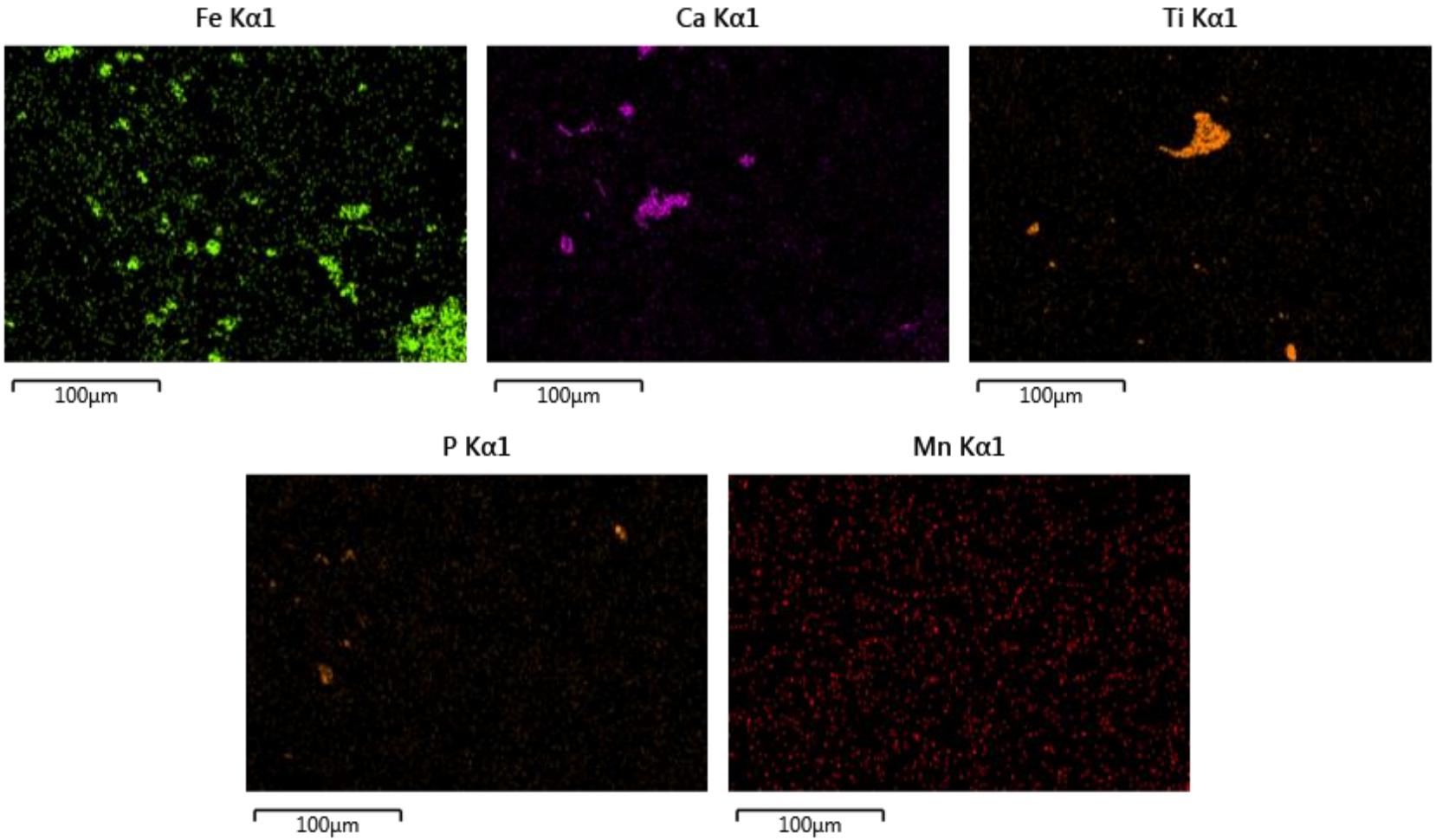

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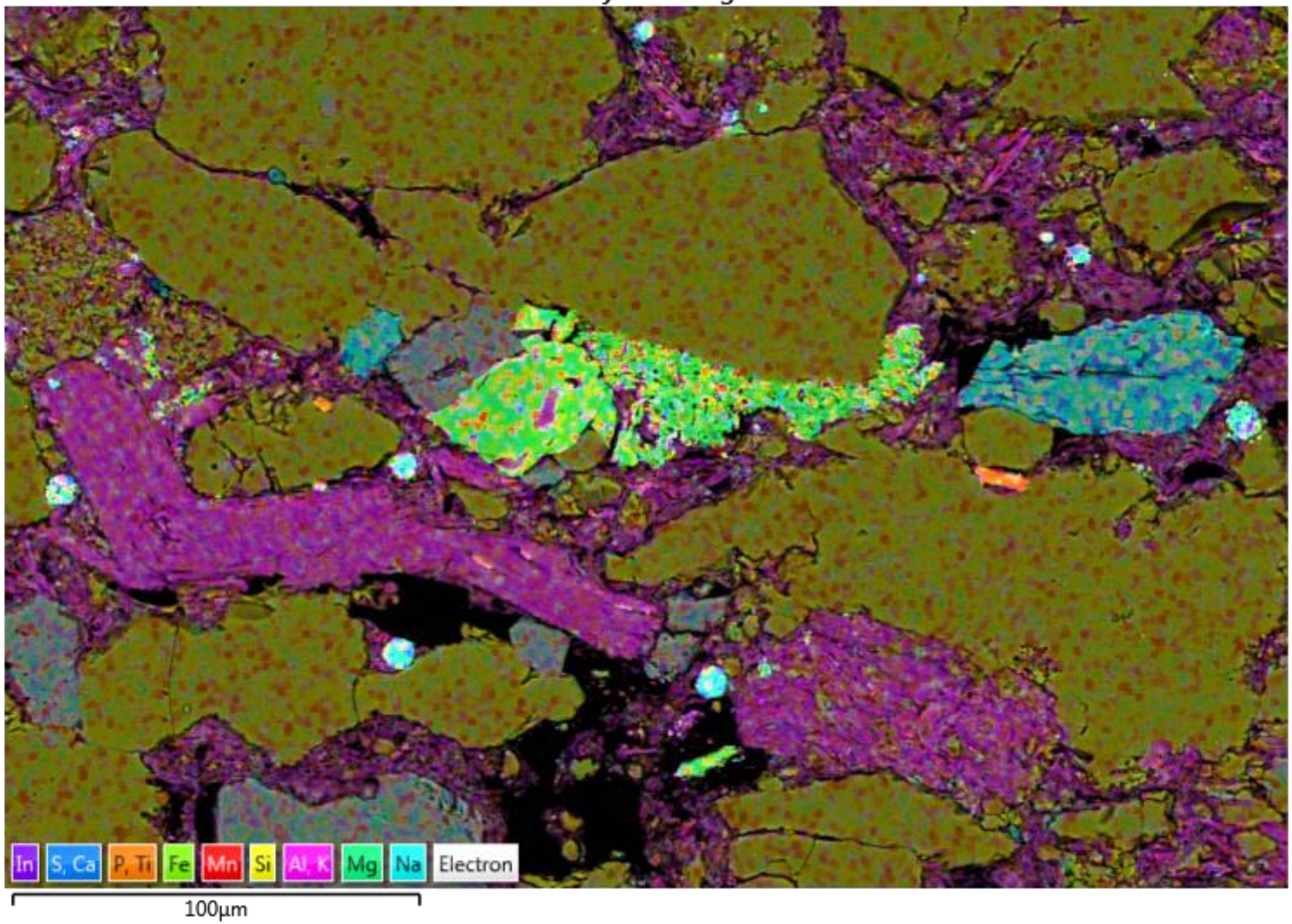

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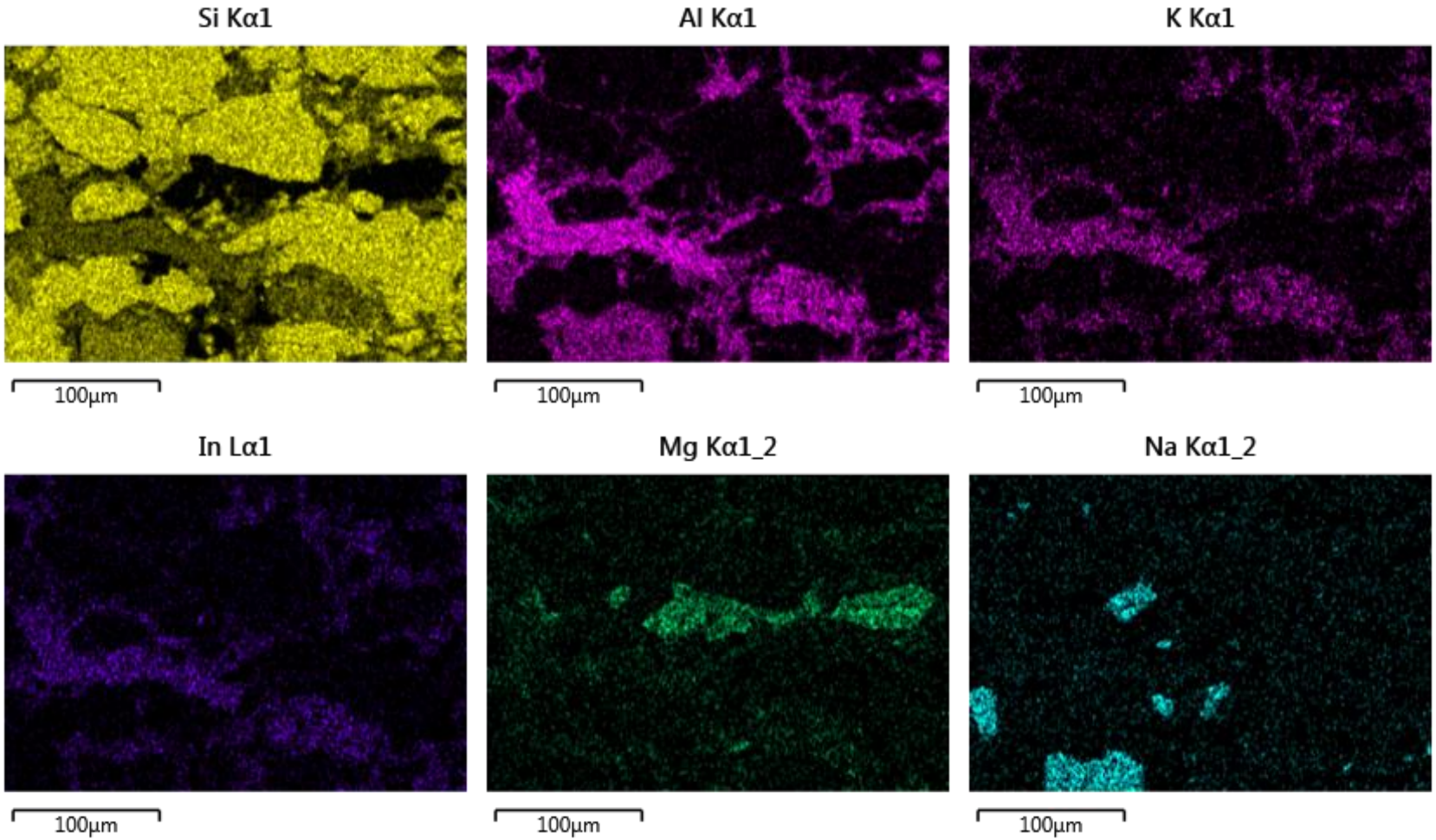

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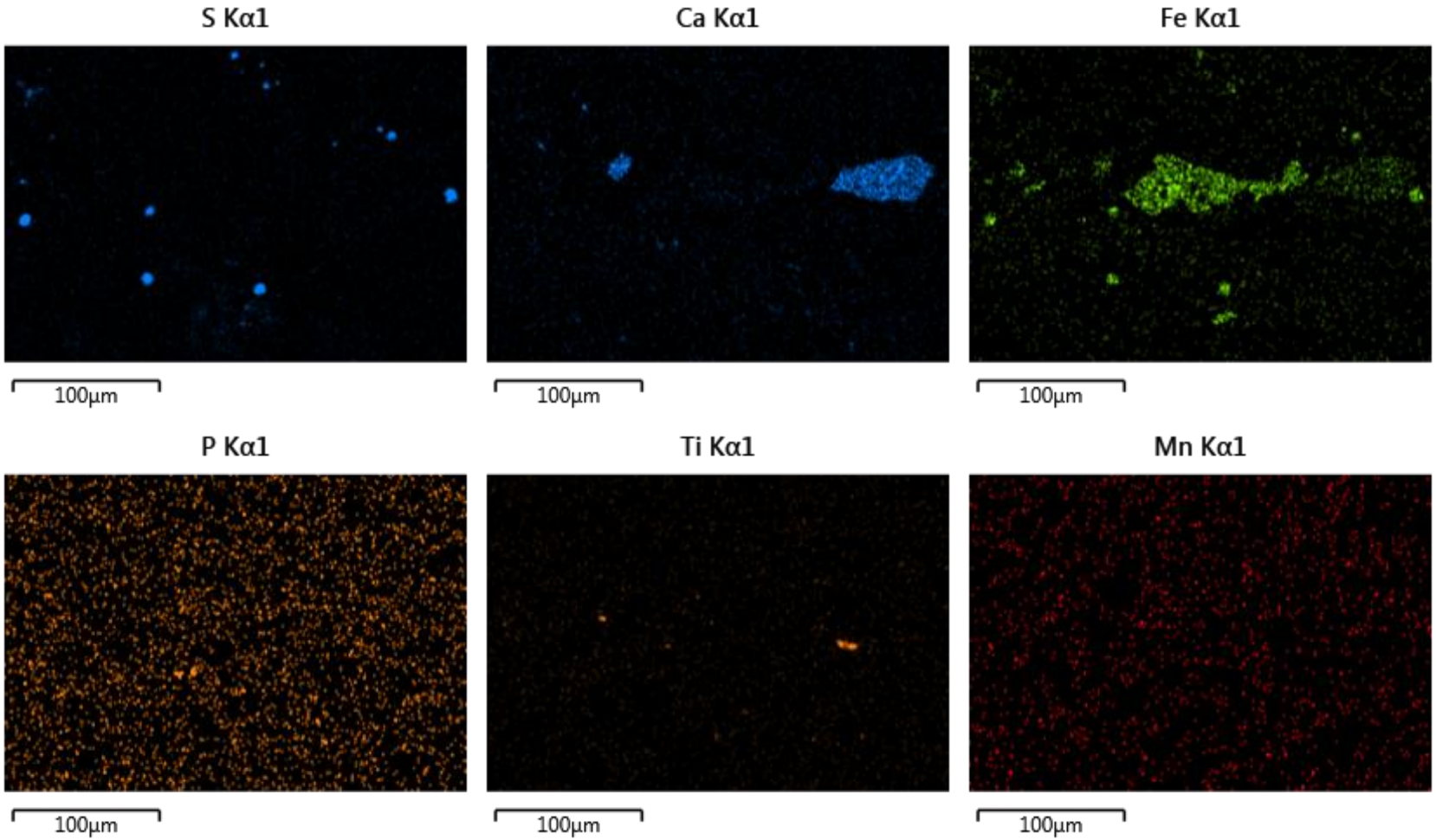
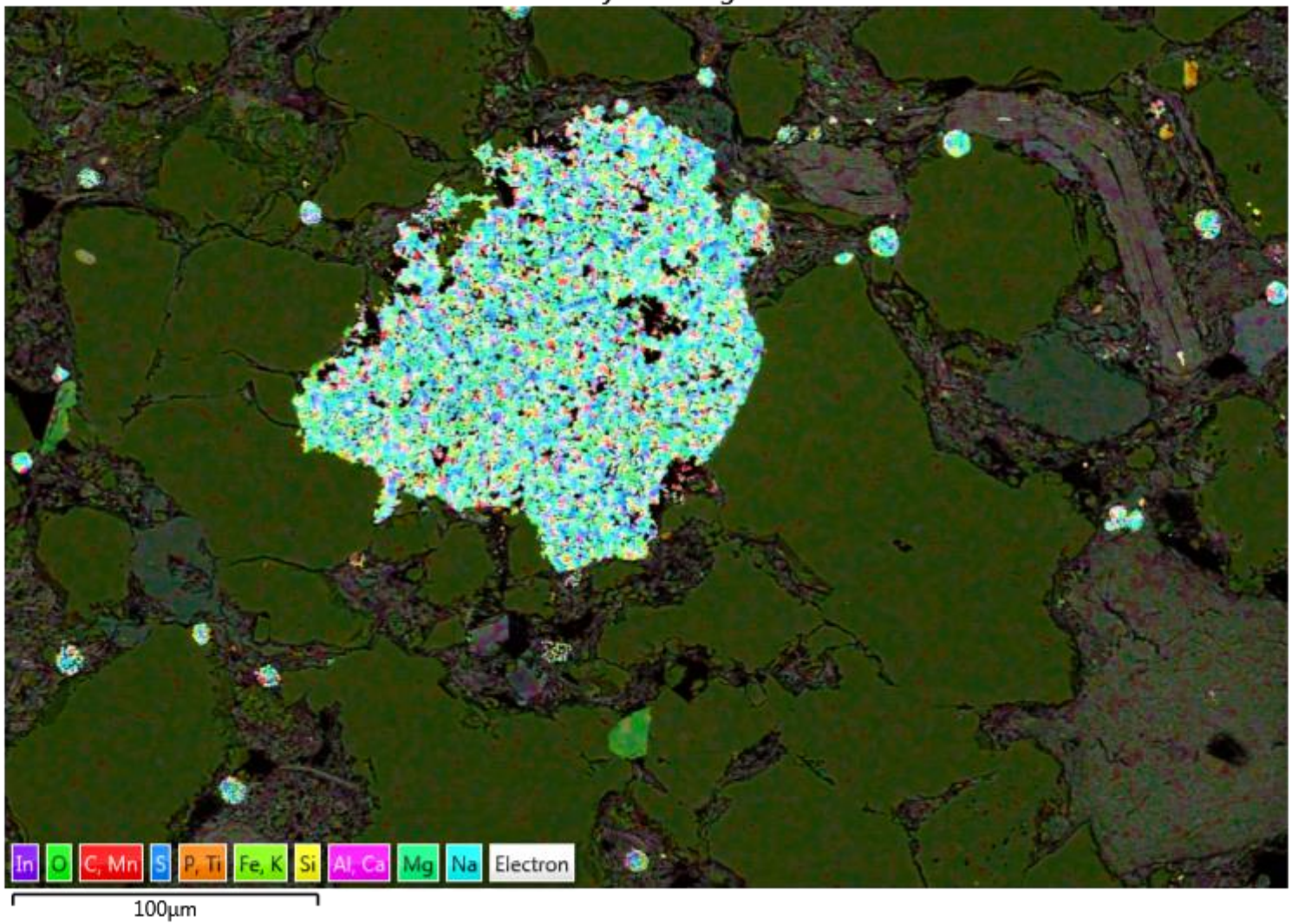

S Kα1
Ca Kα1
Fe Kα1
100µm
100µm
100µm
P Kα1
Ti Kα1
Mn Kα1
100µm
100µm
100µm

EDS Layered Image 2



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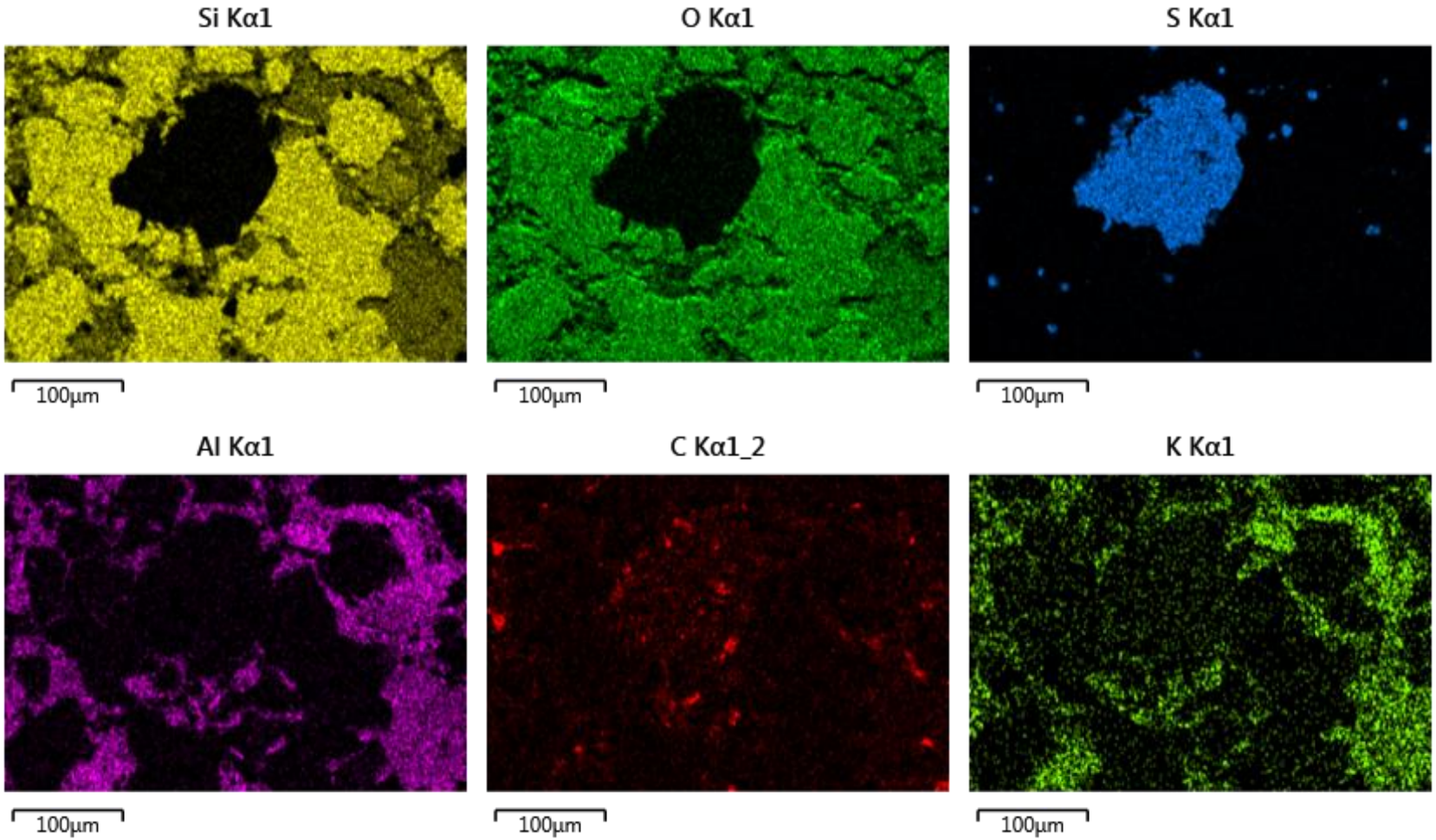

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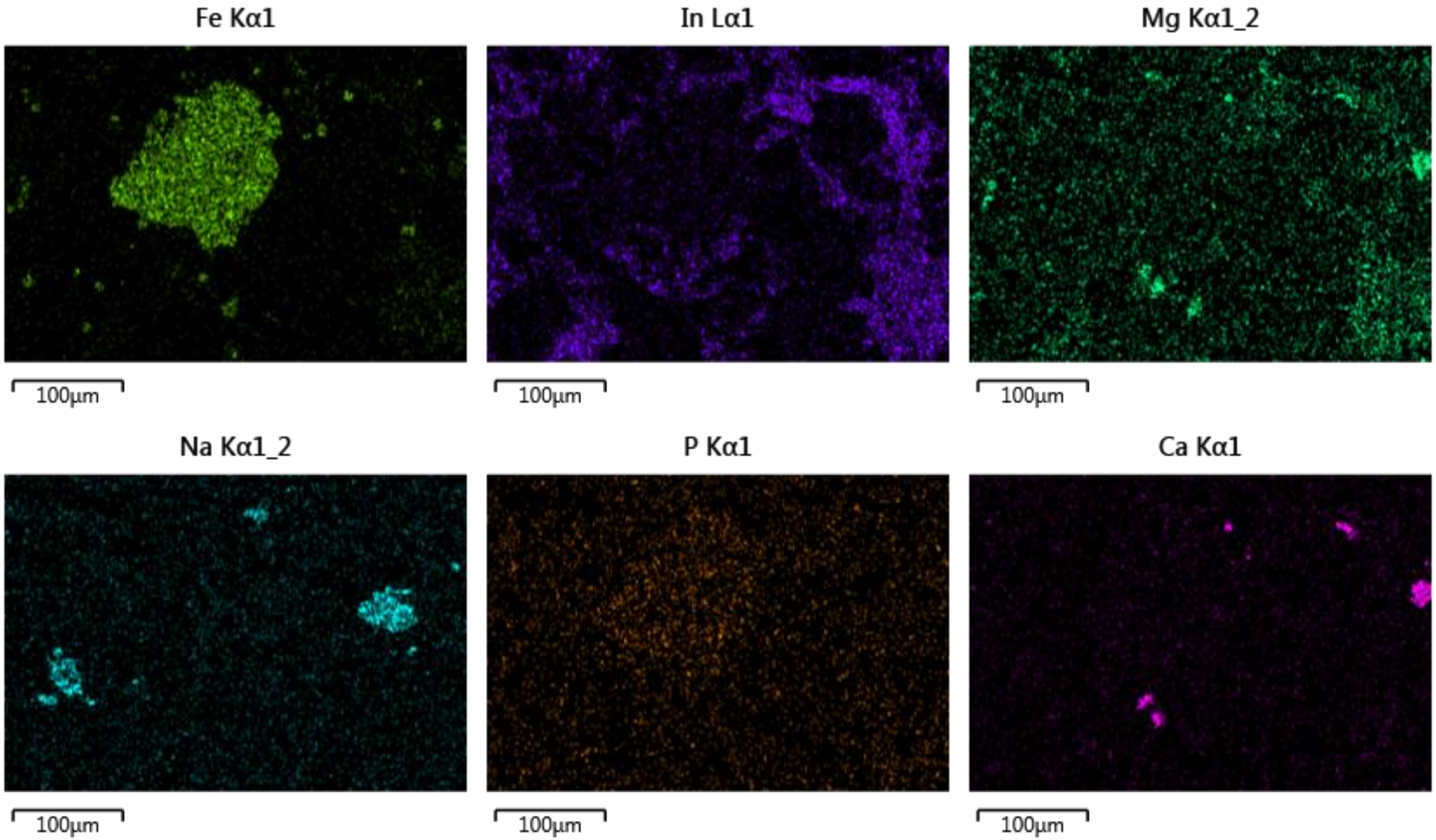

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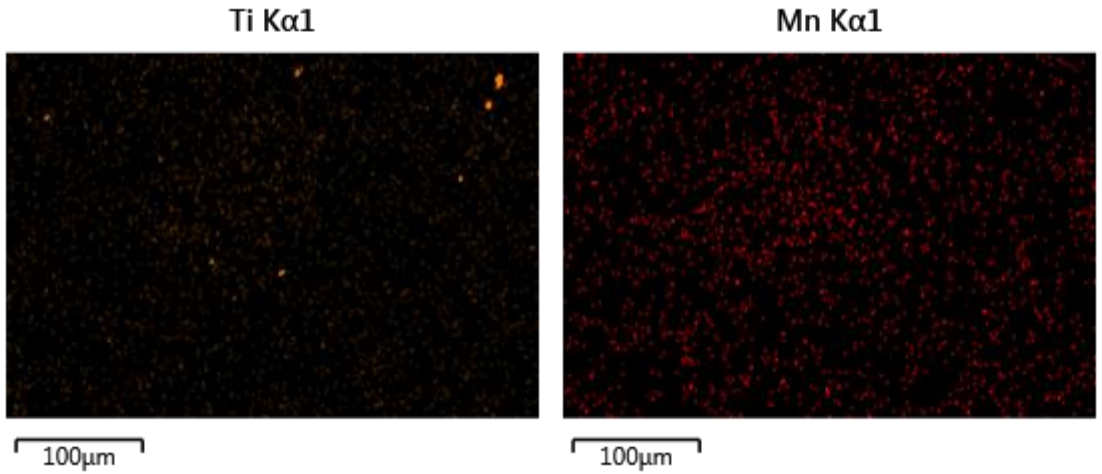
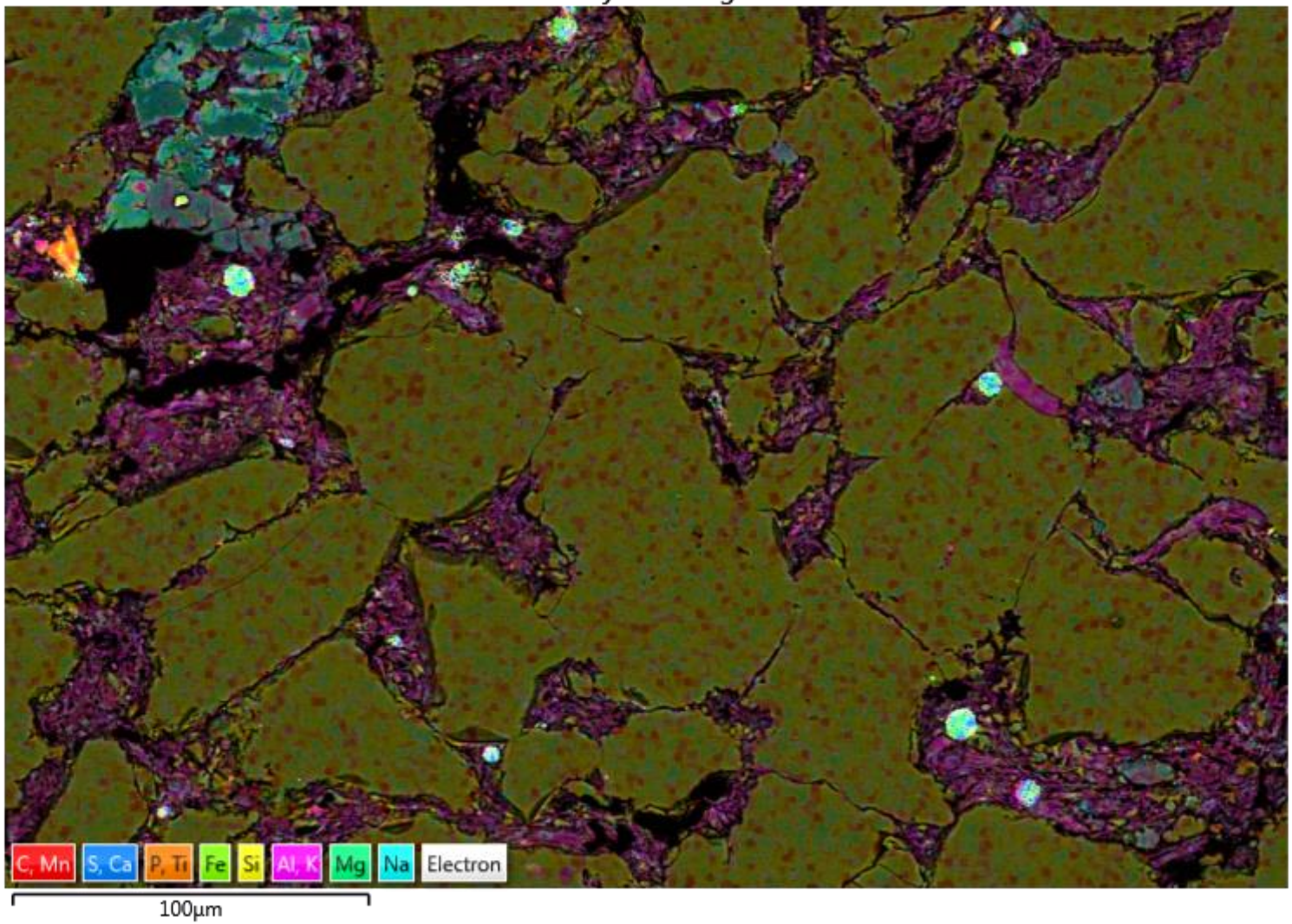

Ti Kα1
Mn Kα1
100µm
100µm

EDS Layered Image 3



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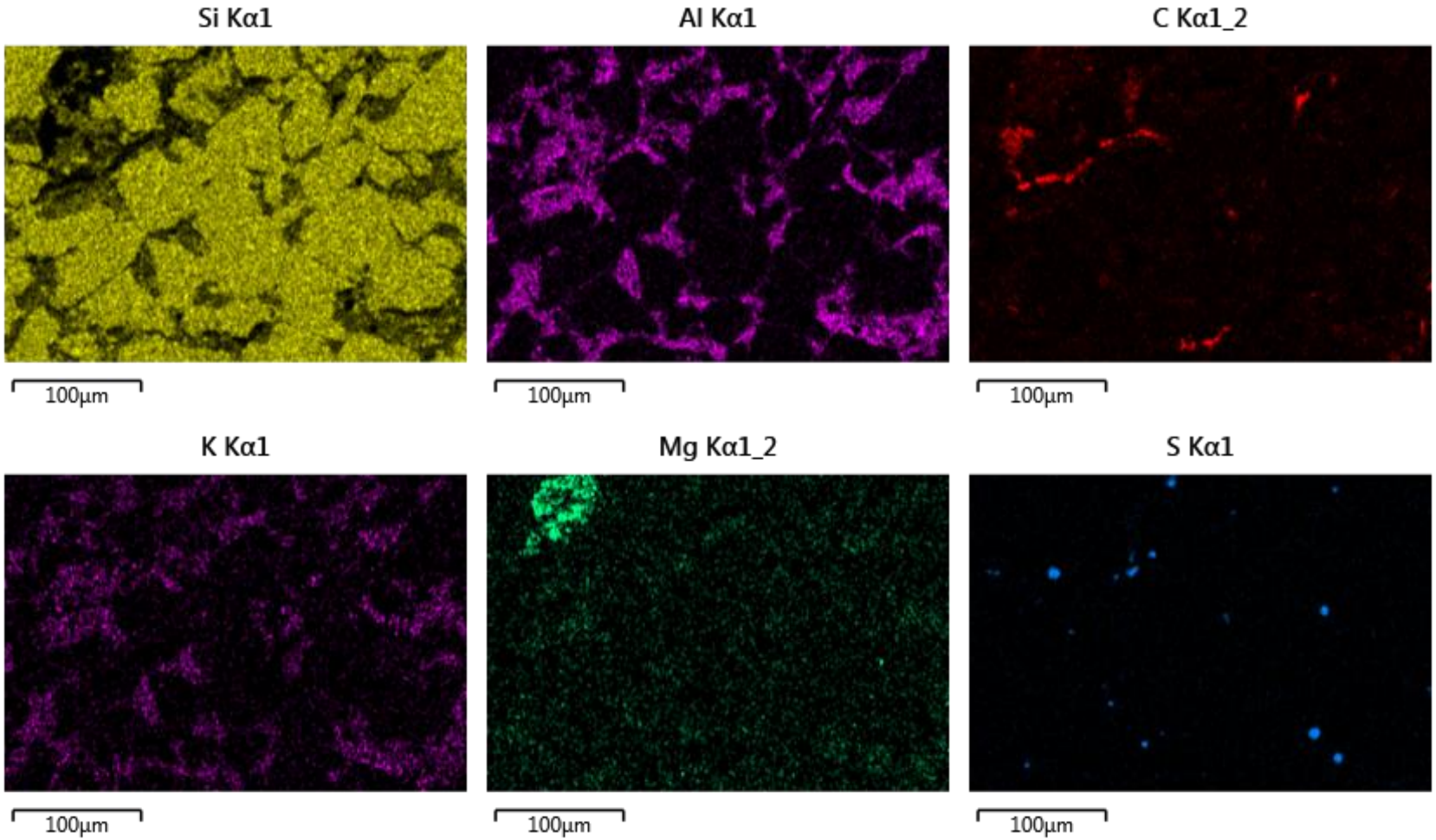

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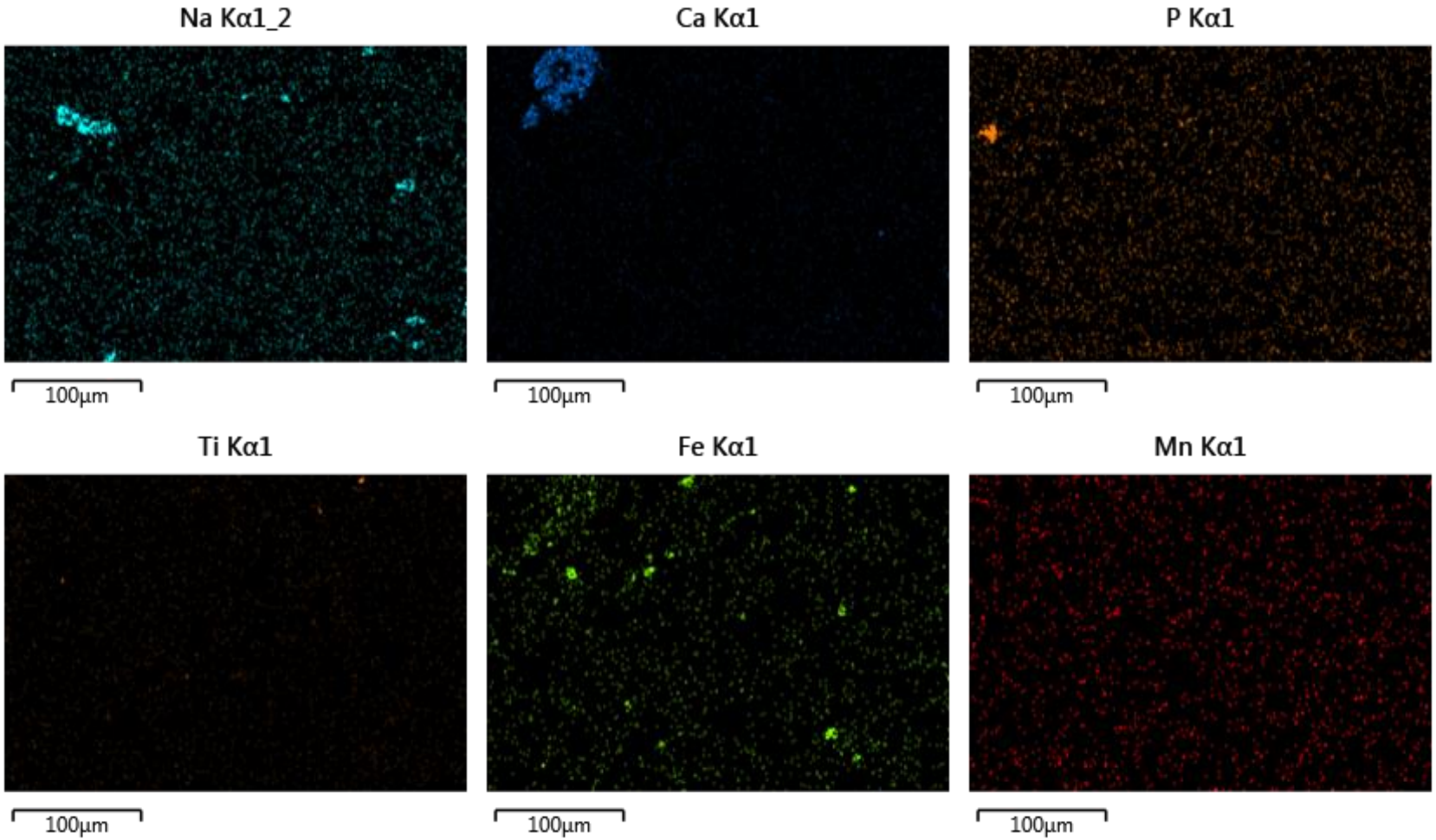

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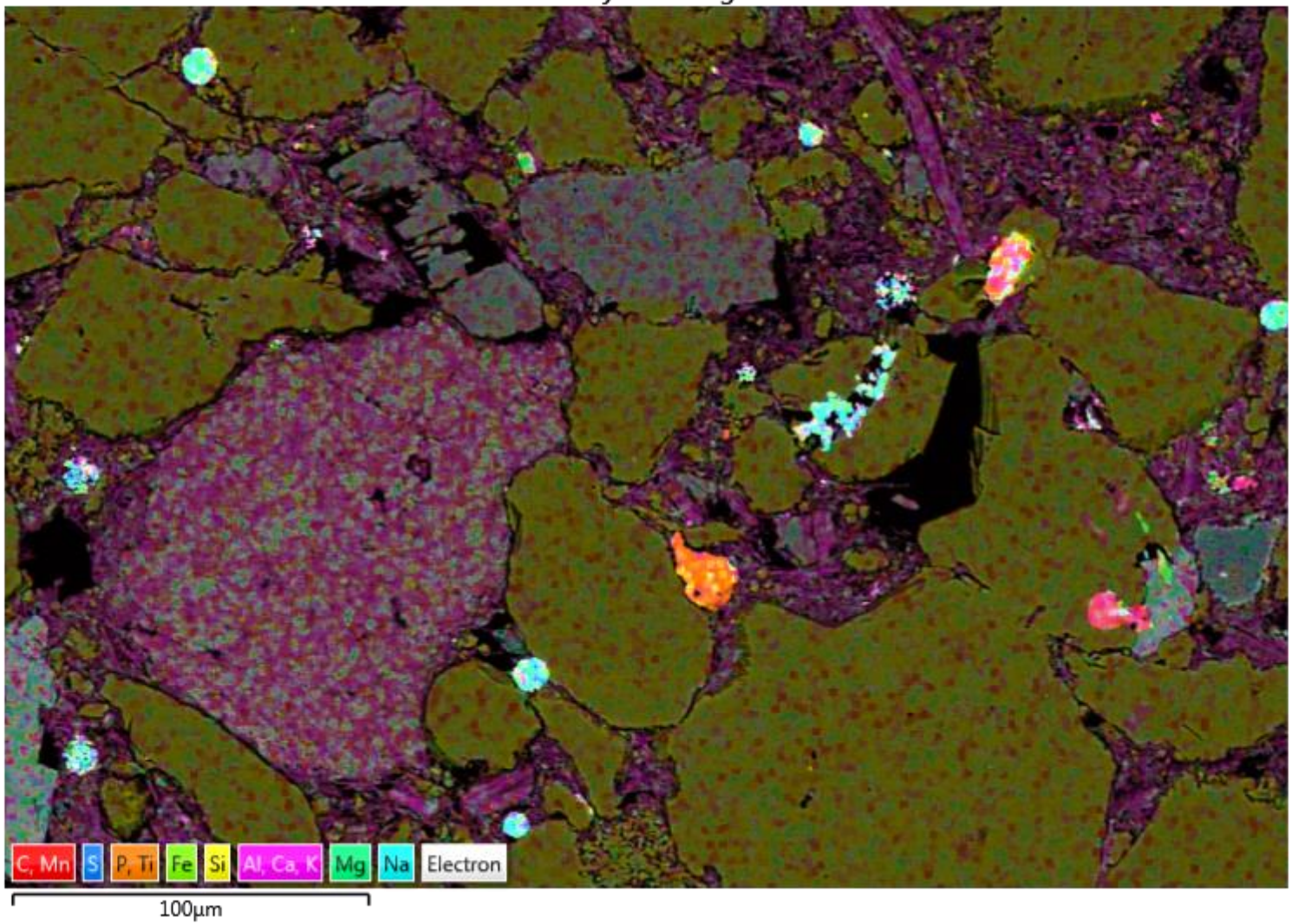
EDS Layered Image 4



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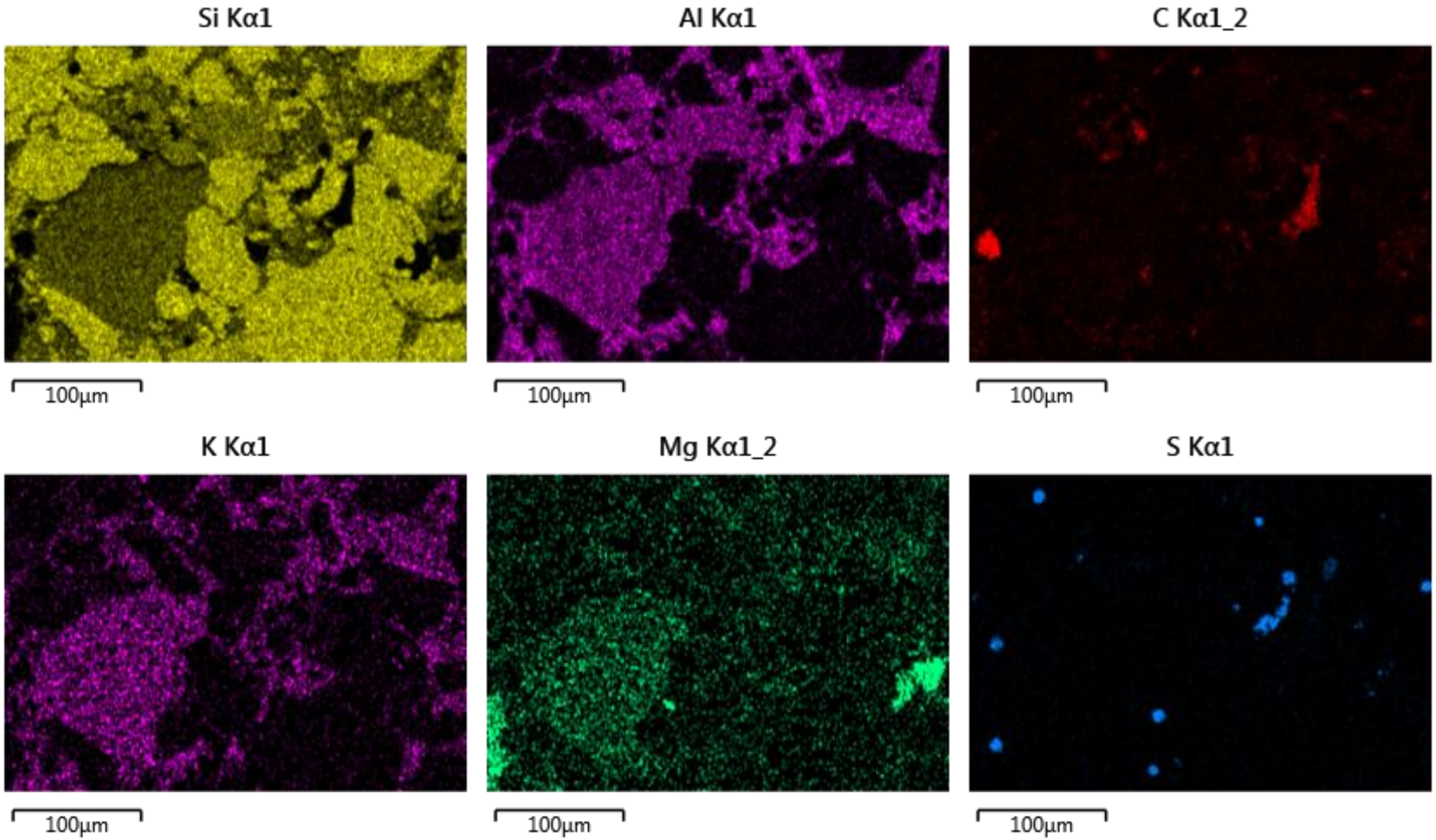

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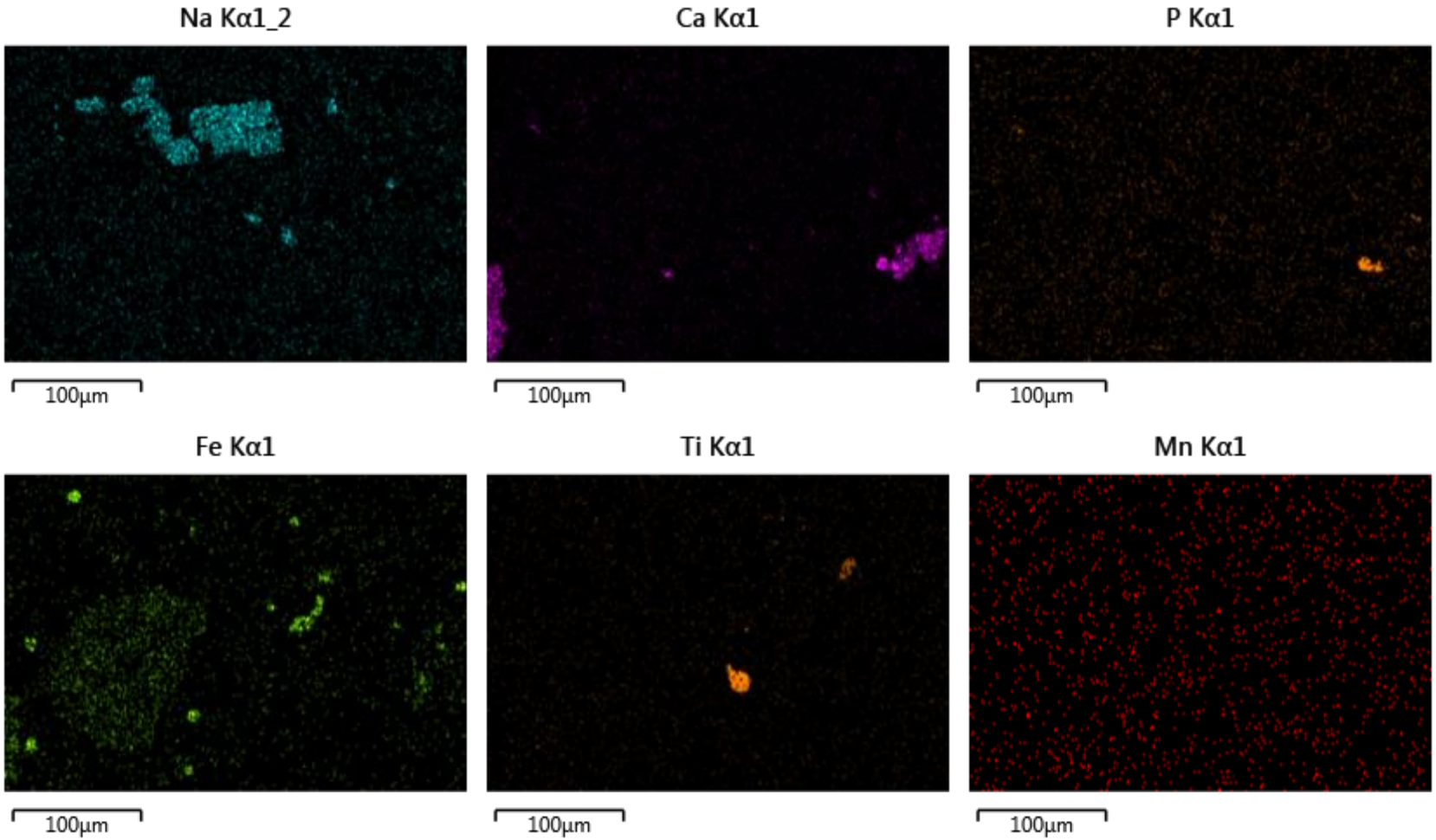

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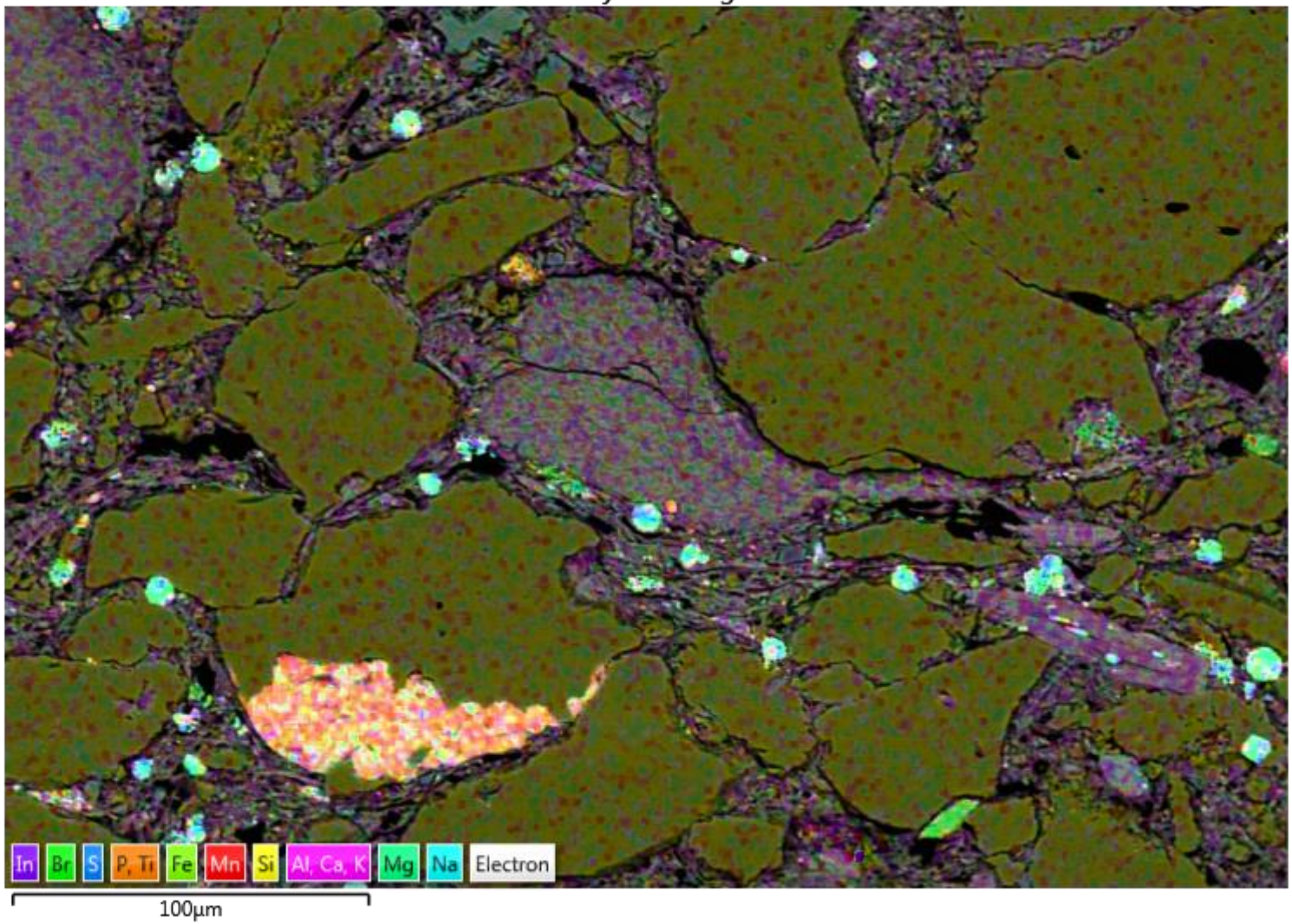

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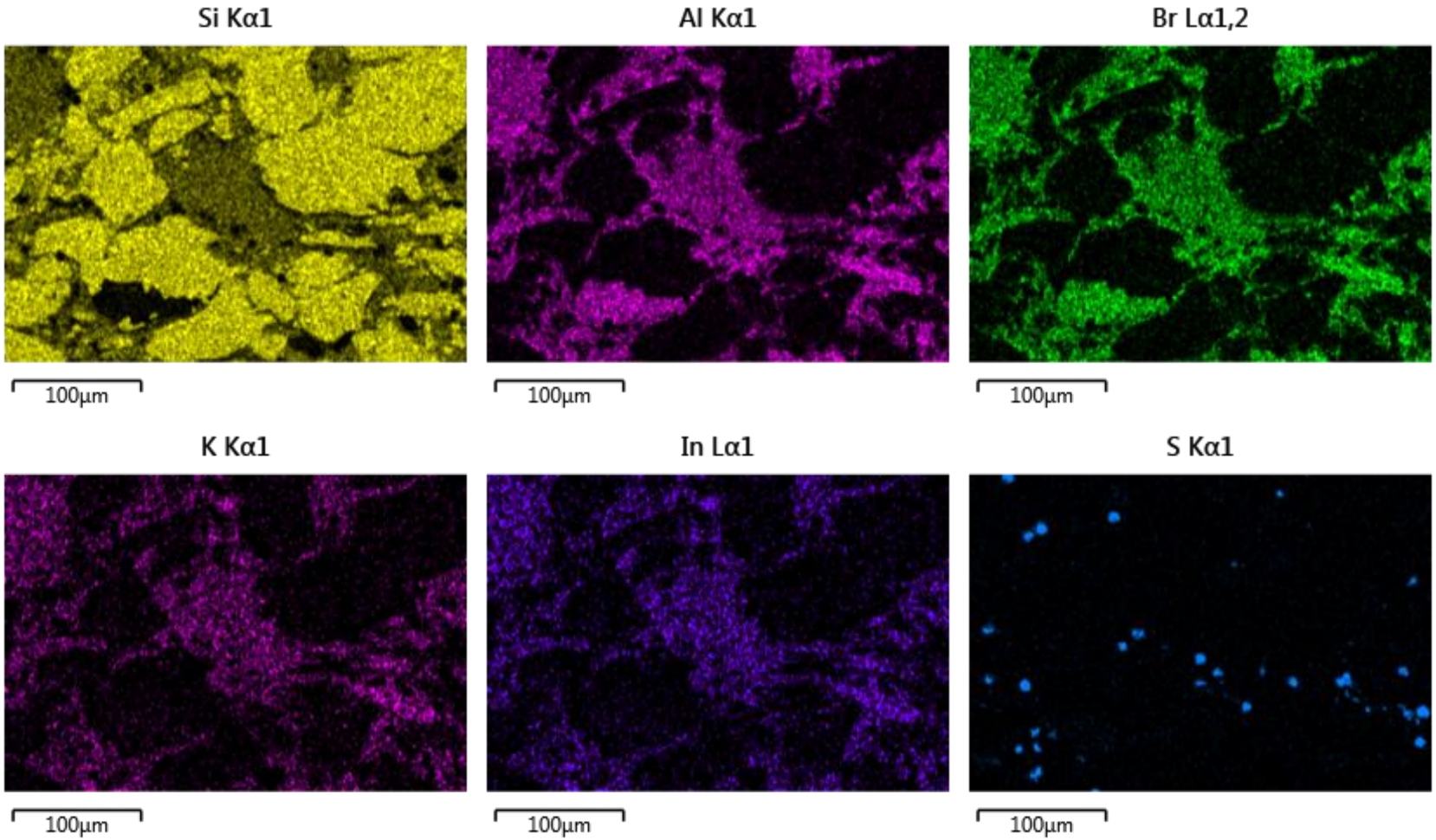

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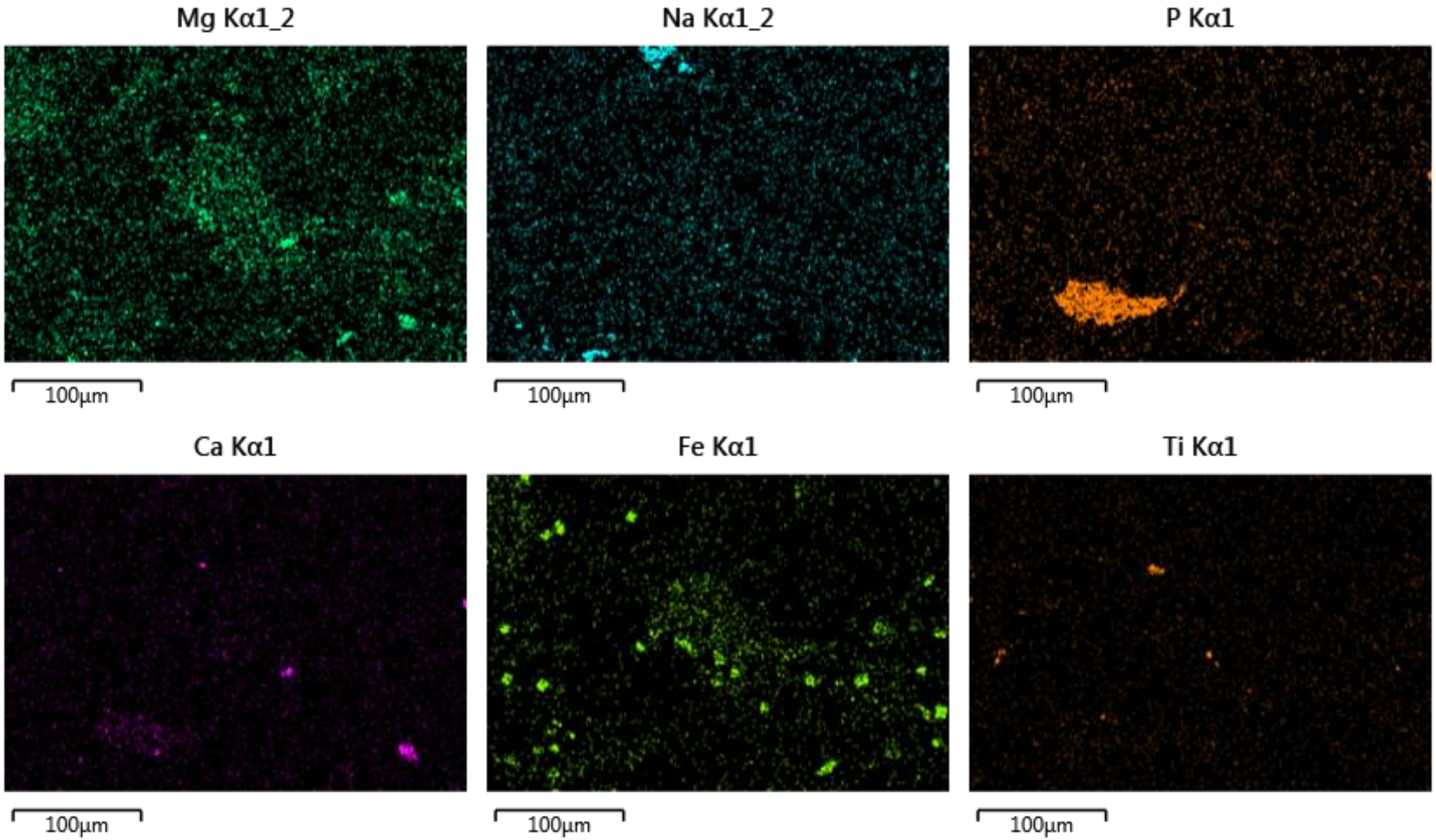

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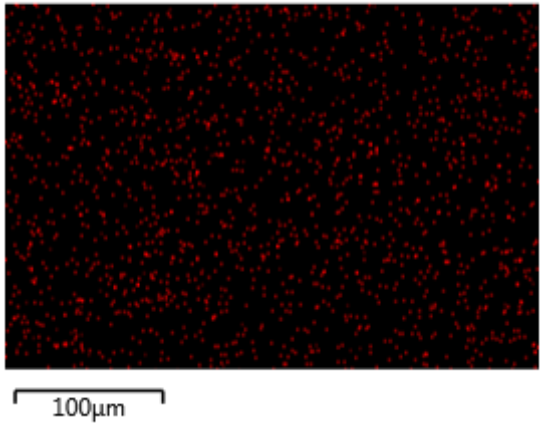
Mn Kα1



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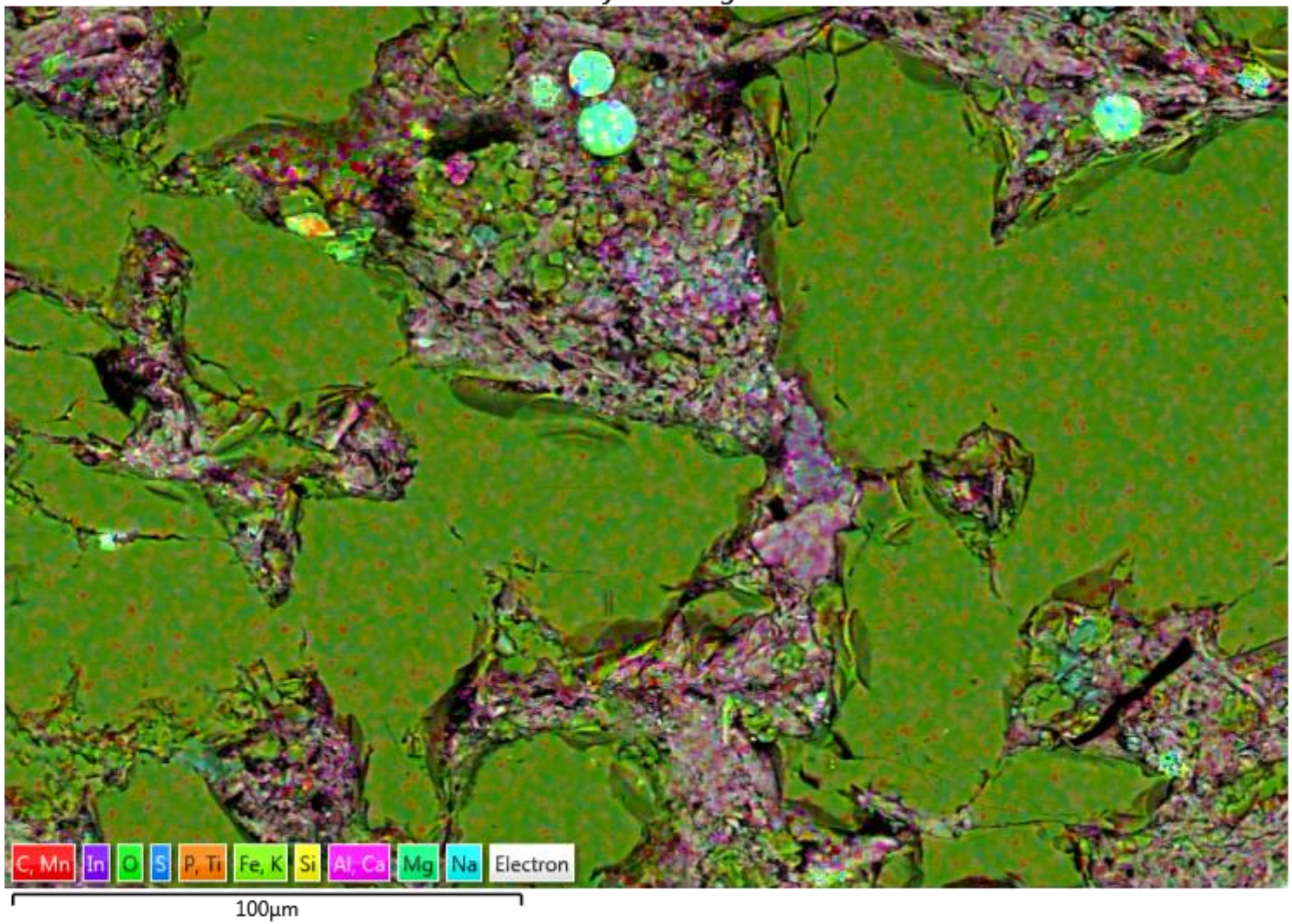

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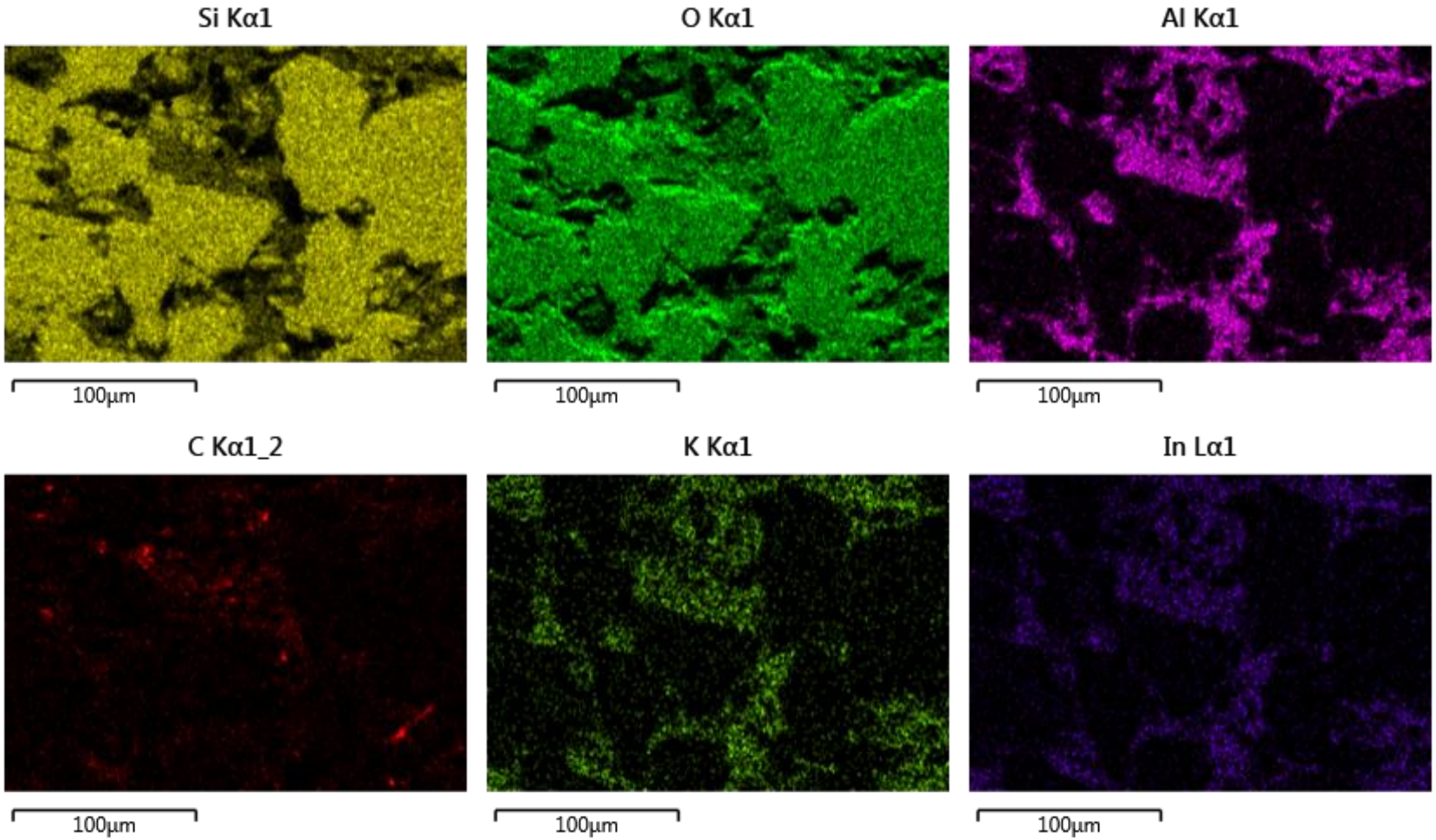

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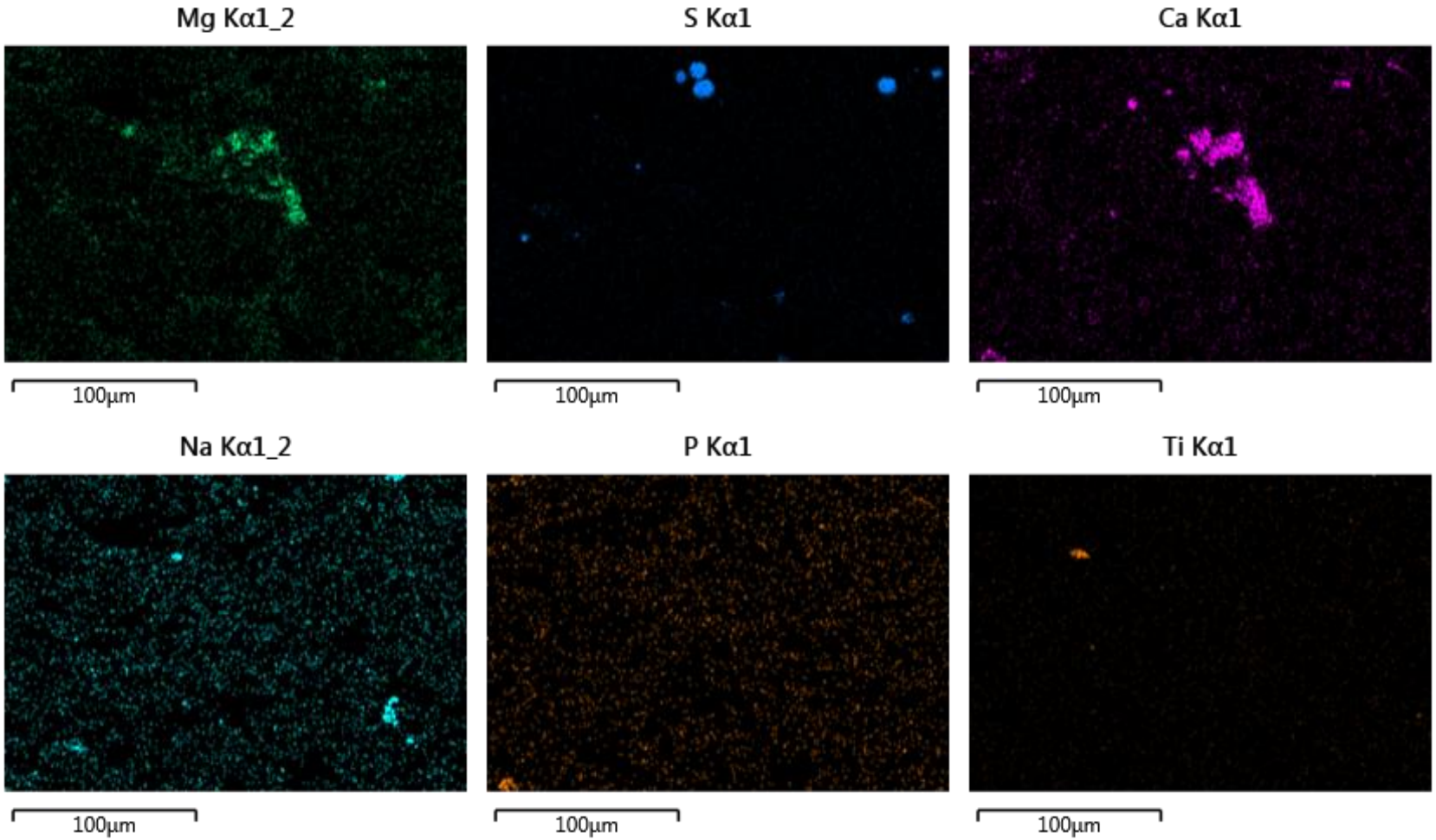
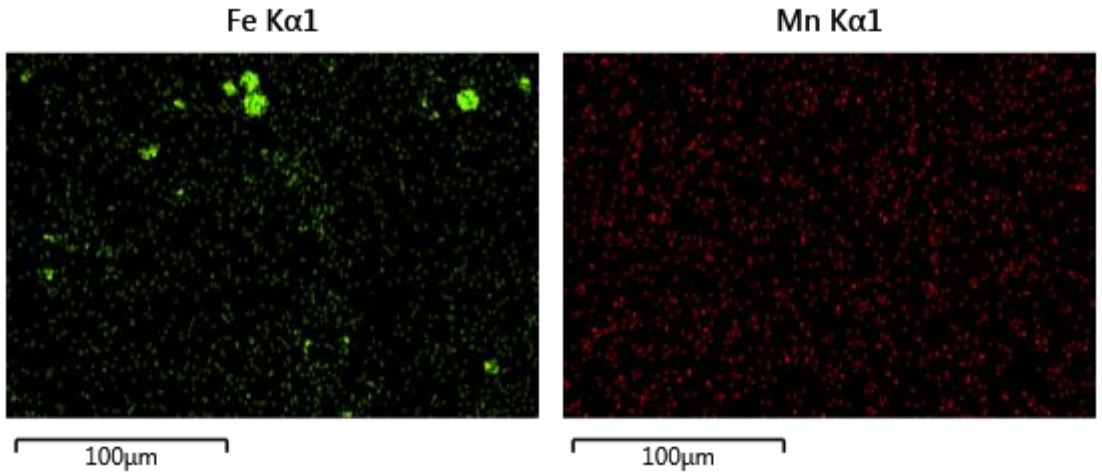
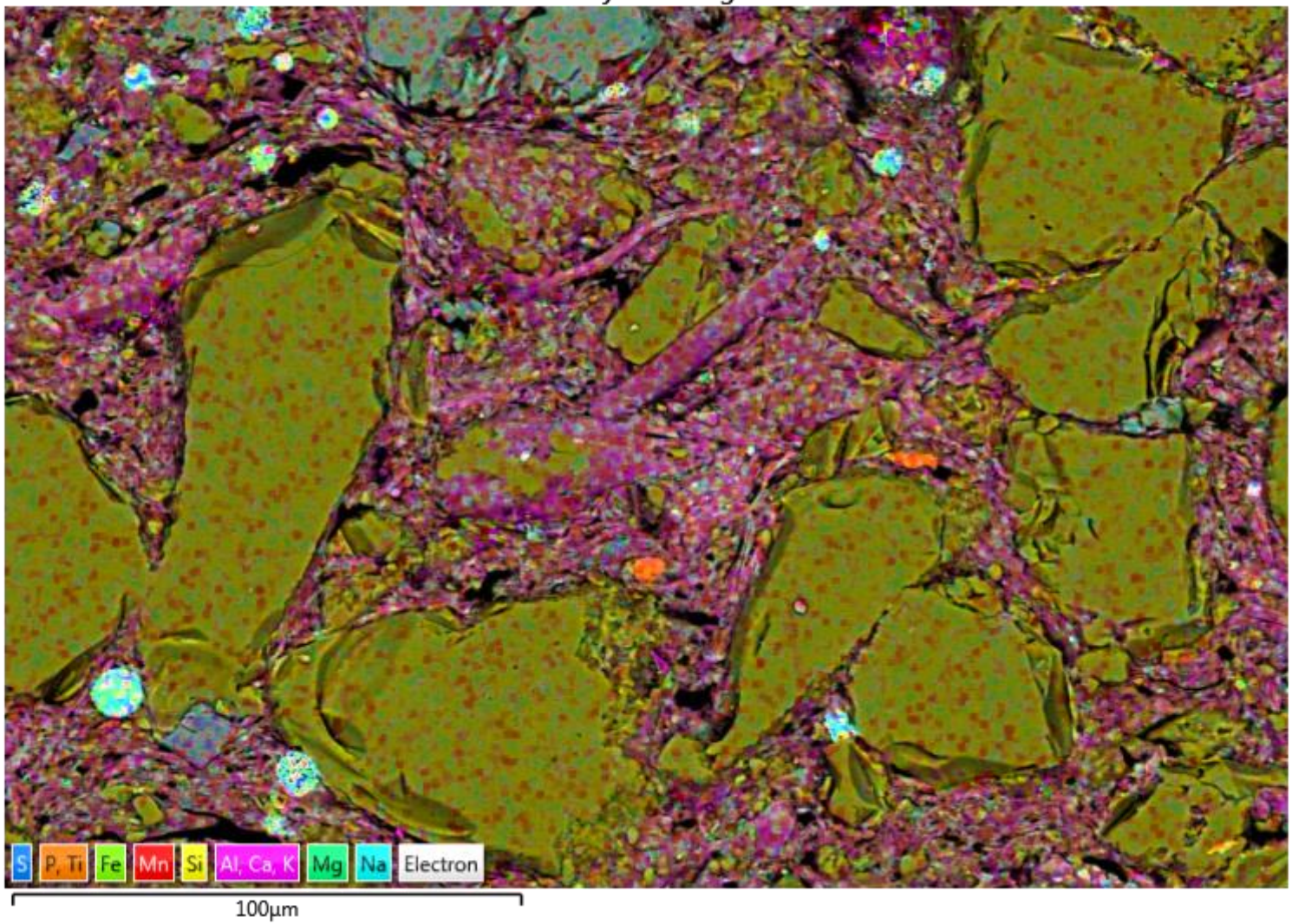

Mg Kα1_2
S Kα1
Ca Kα1
100µm
100µm
100µm
Na Kα1_2
P Kα1
Ti Kα1
100µm
100µm
100µm


Fe Kα1
Mn Kα1
100µm
100µm

EDS Layered Image 2



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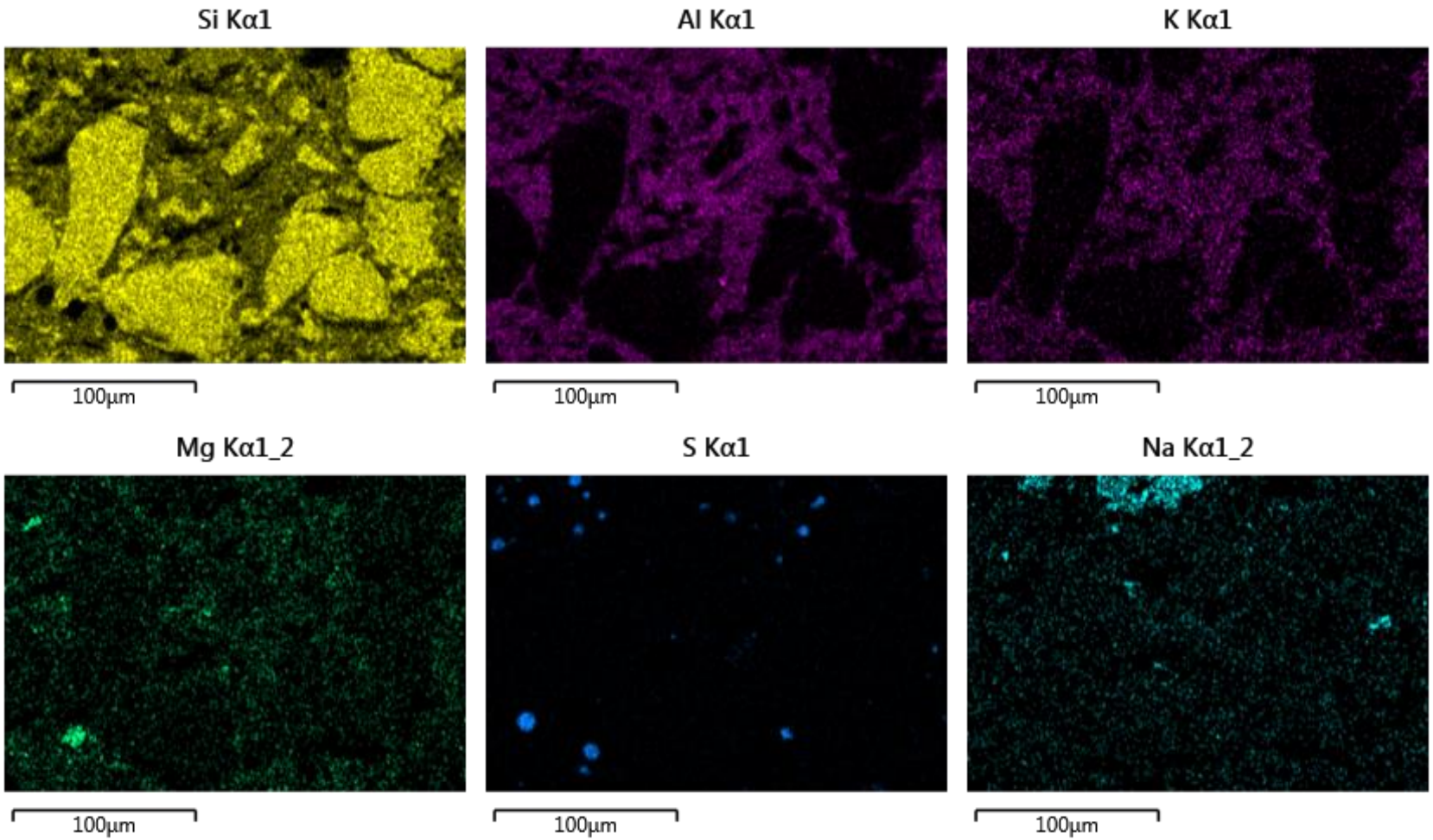

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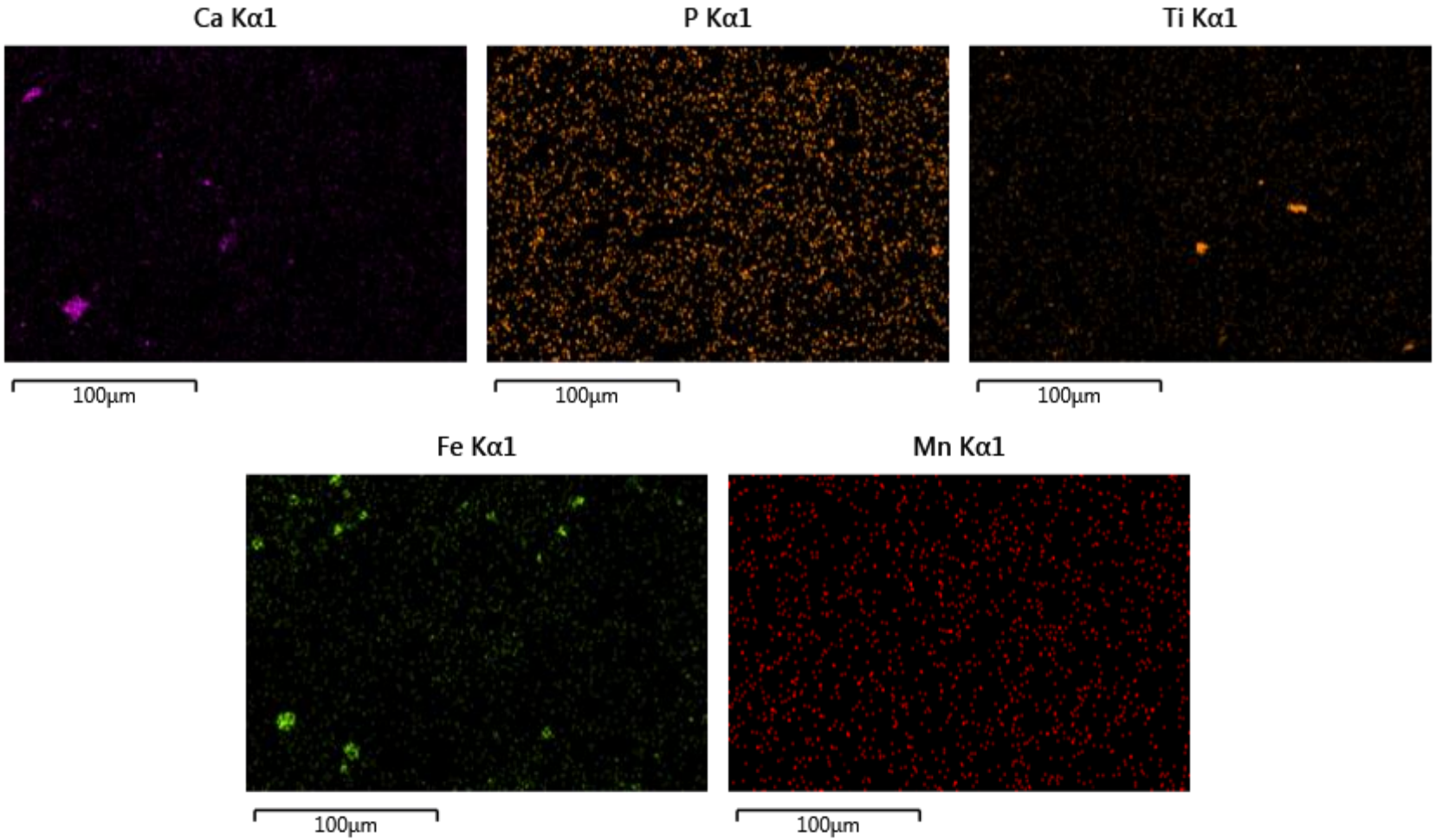

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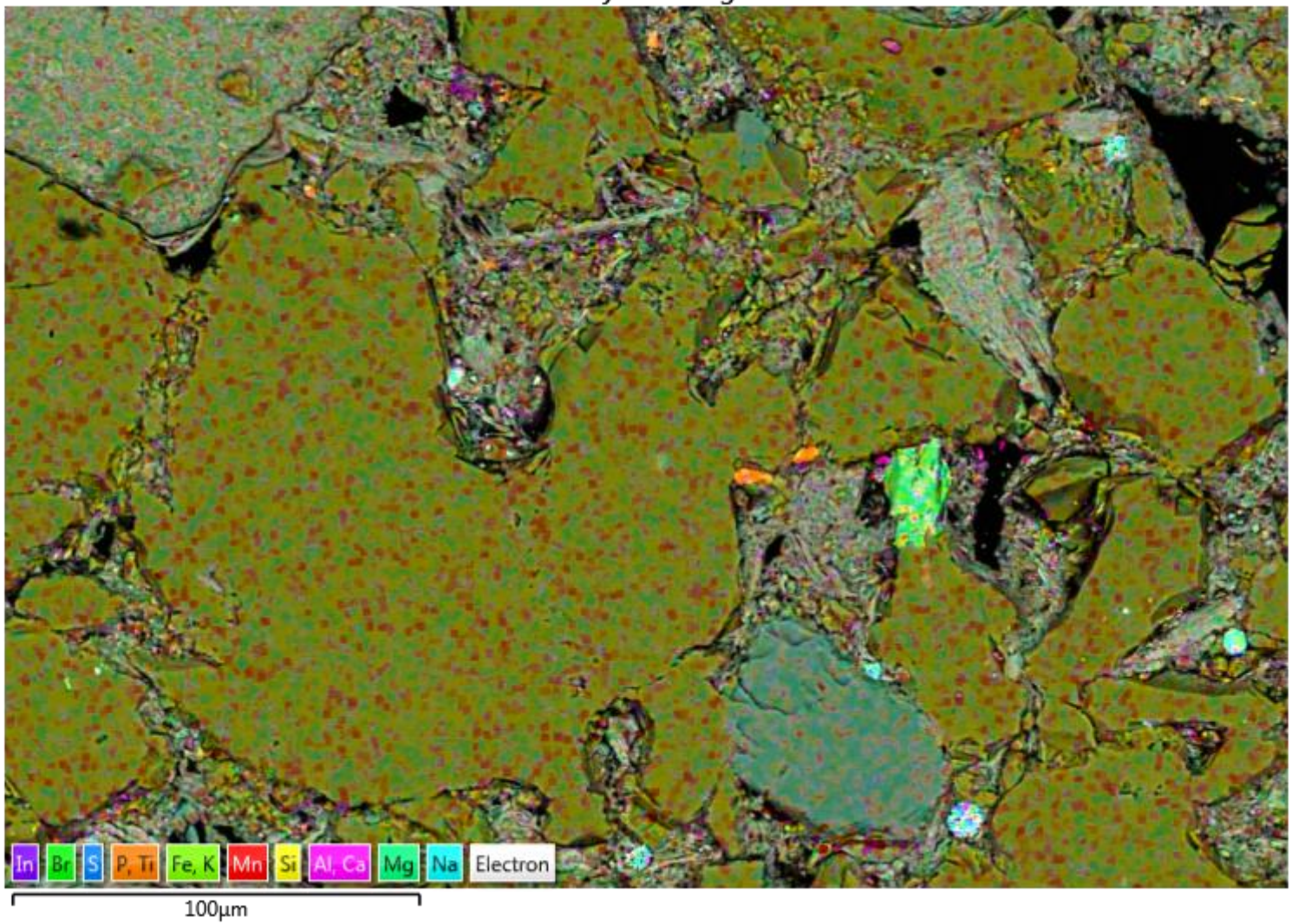

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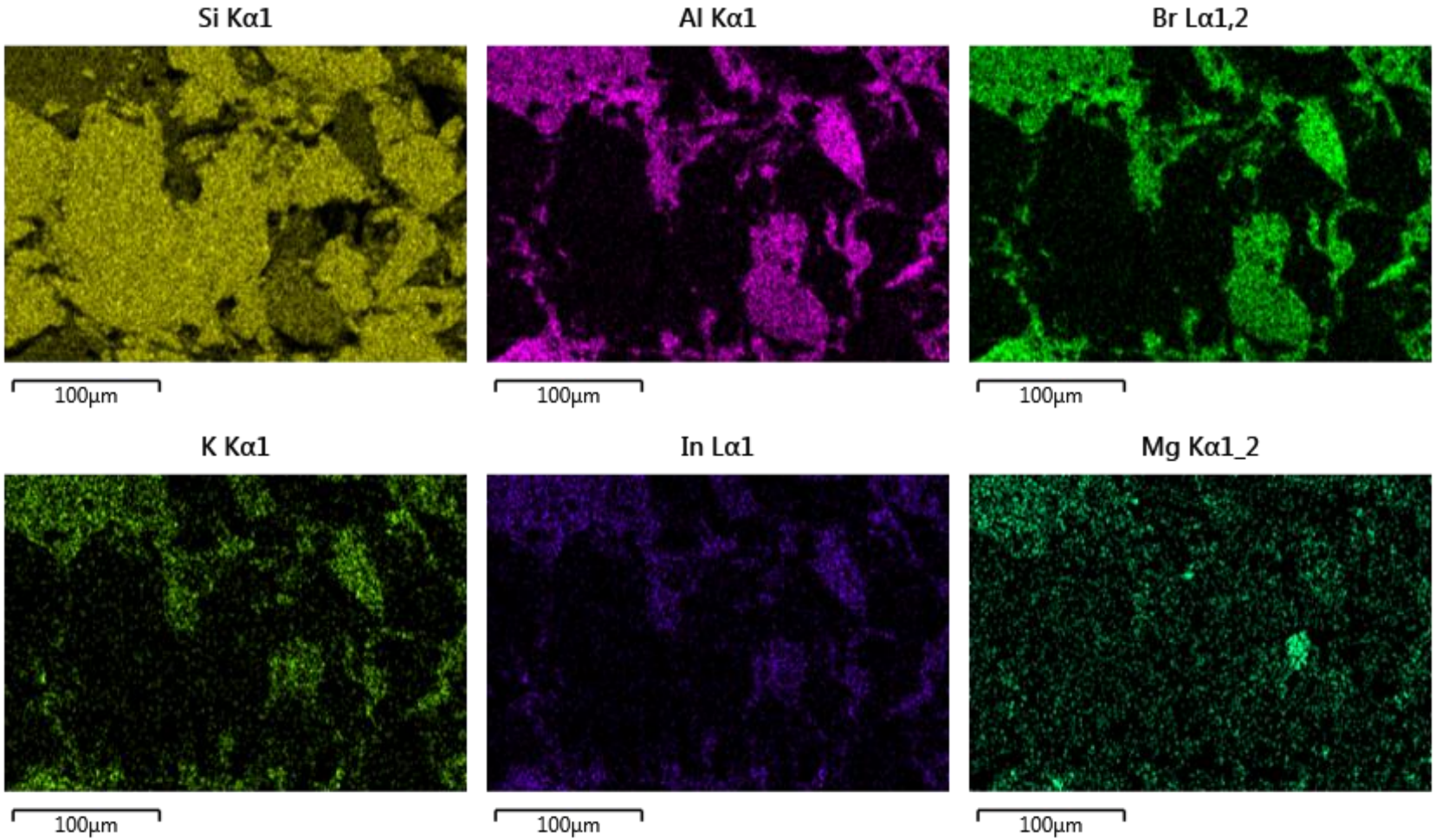
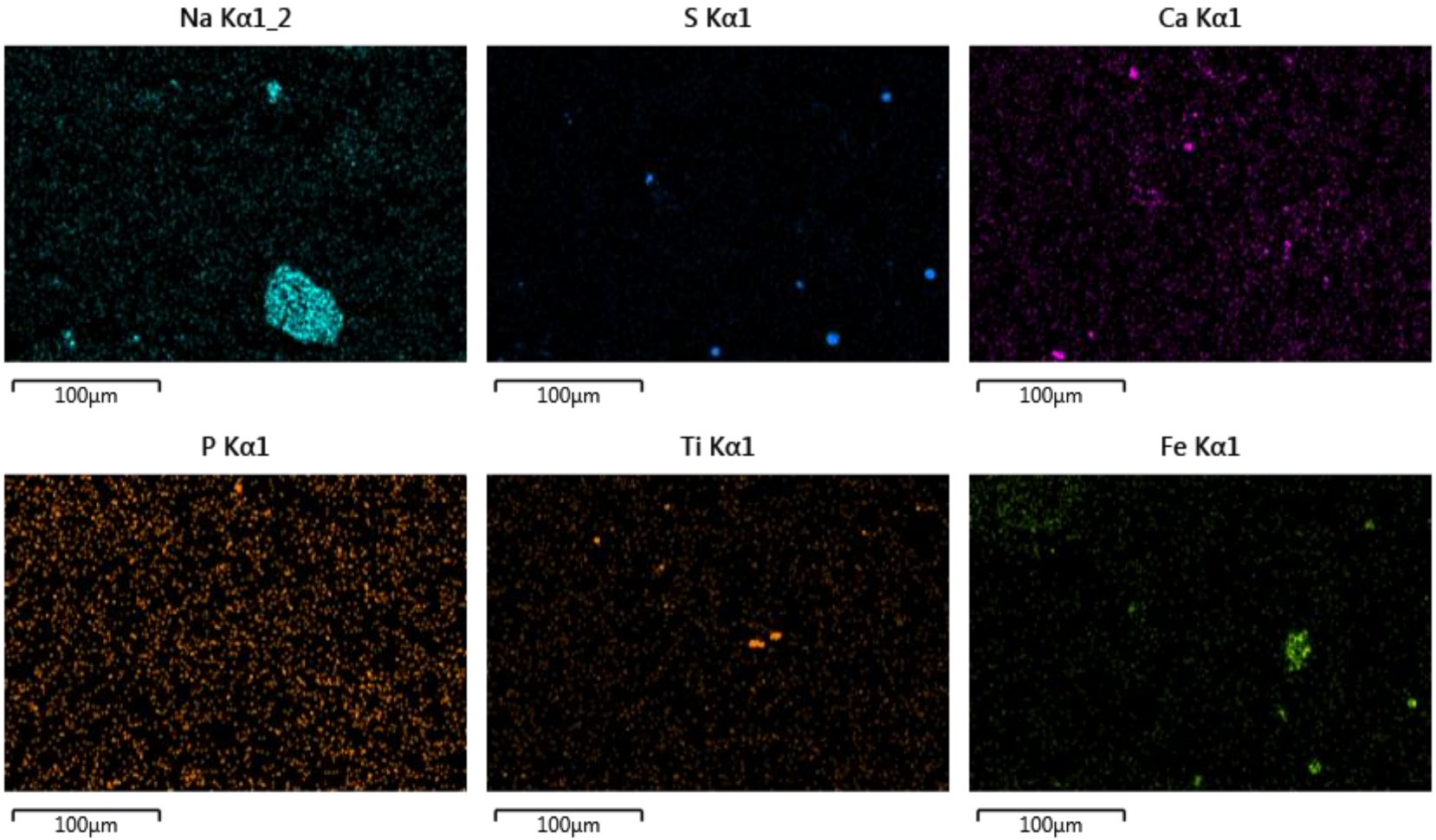

Si Kα1
100µm
Al Kα1
100µm
Br Lα1,2
100µm
K Kα1
100µm
In Lα1
100µm
Mg Kα1_2
100µm



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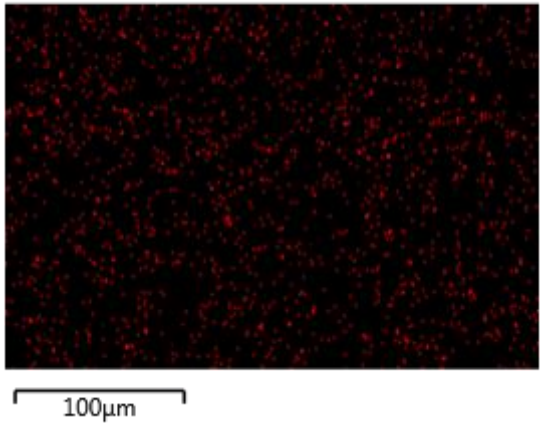
Mn Kα1



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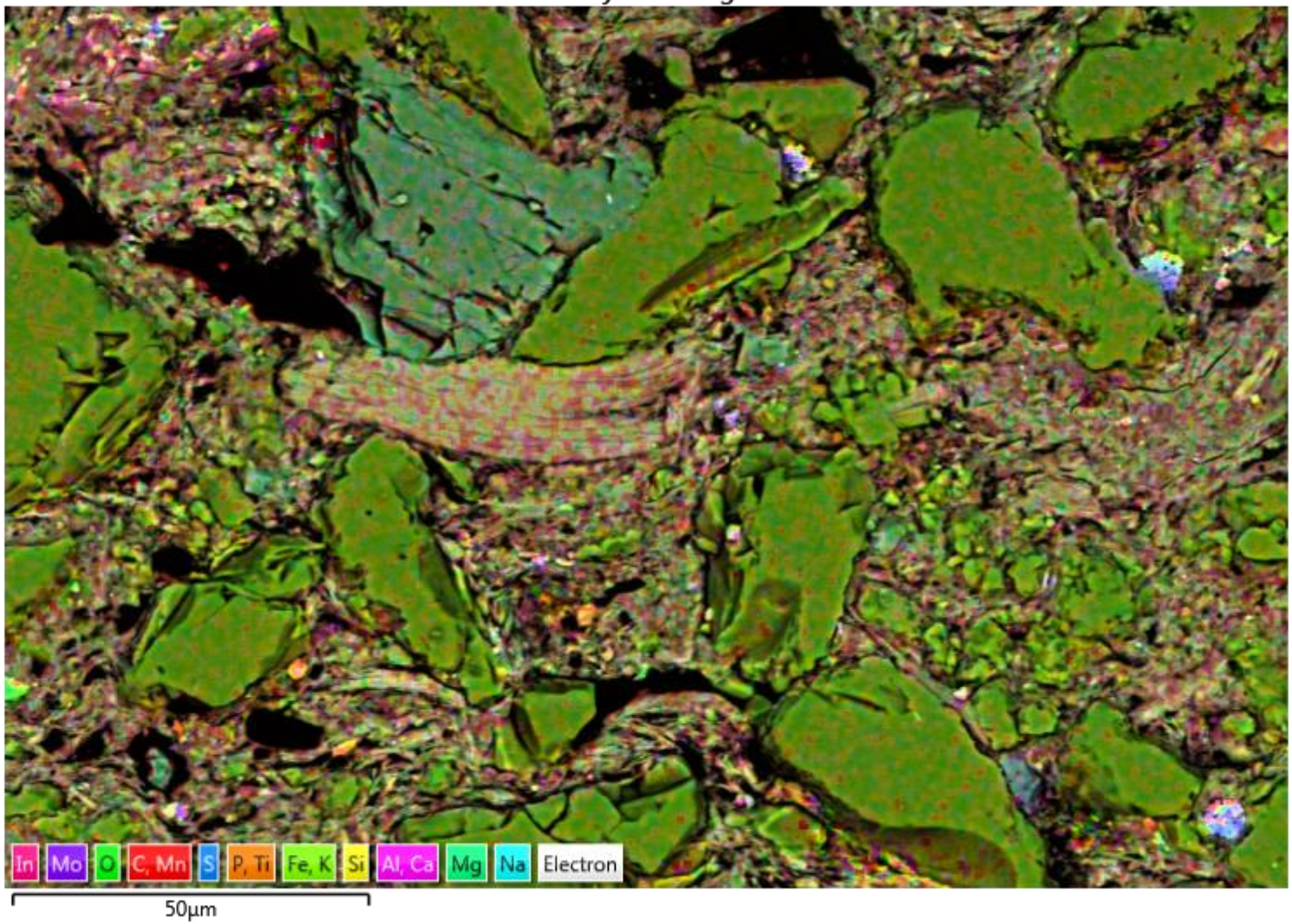
EDS Layered Image 1



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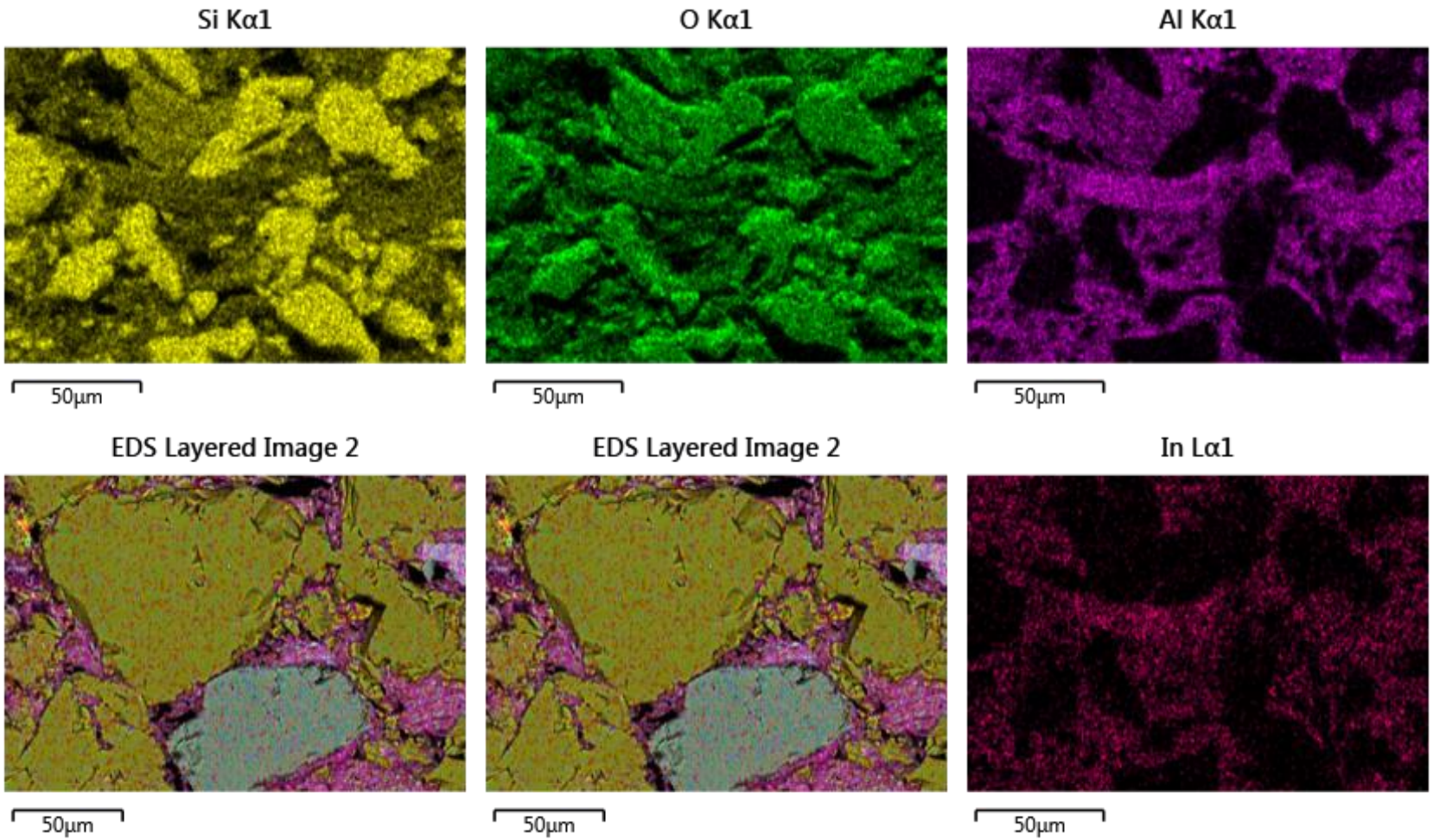

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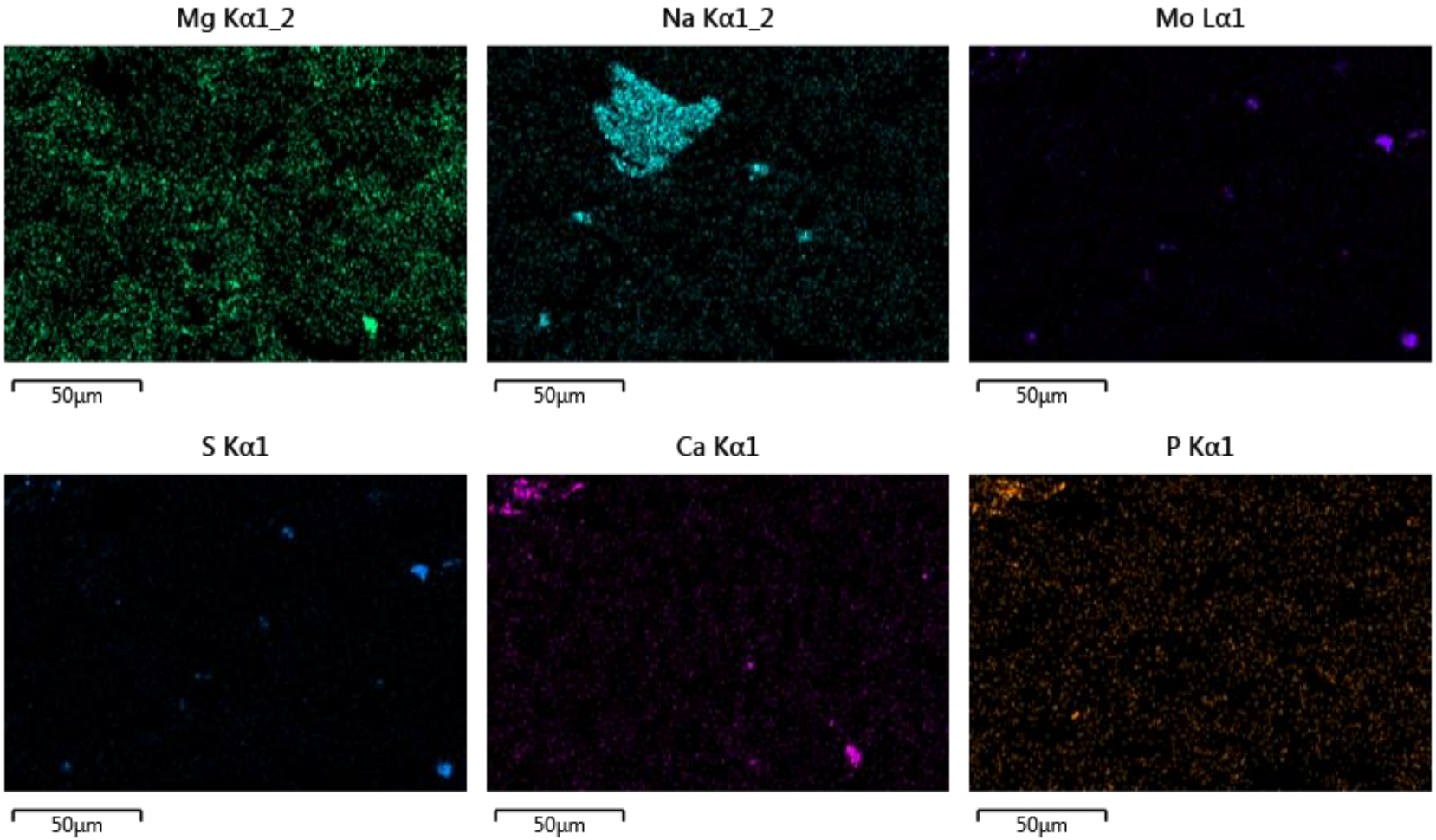

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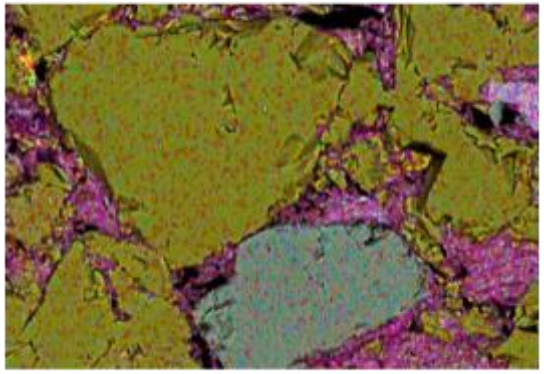
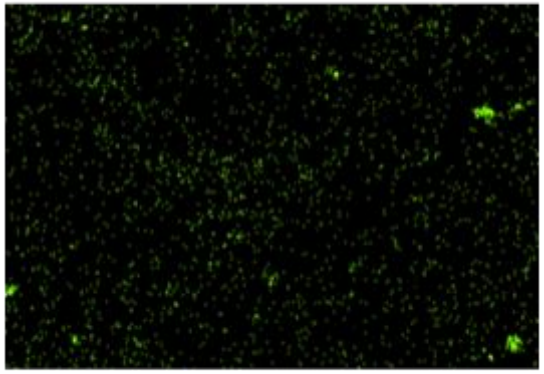
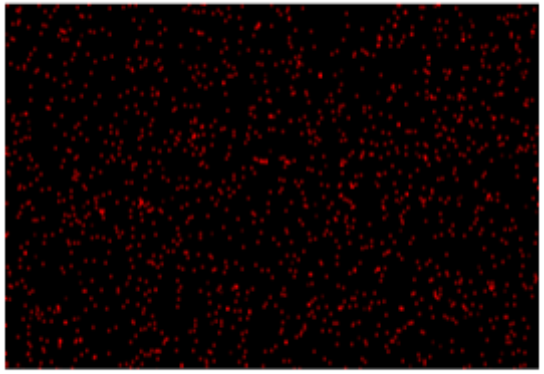


Fe Kα1



Mn Kα1



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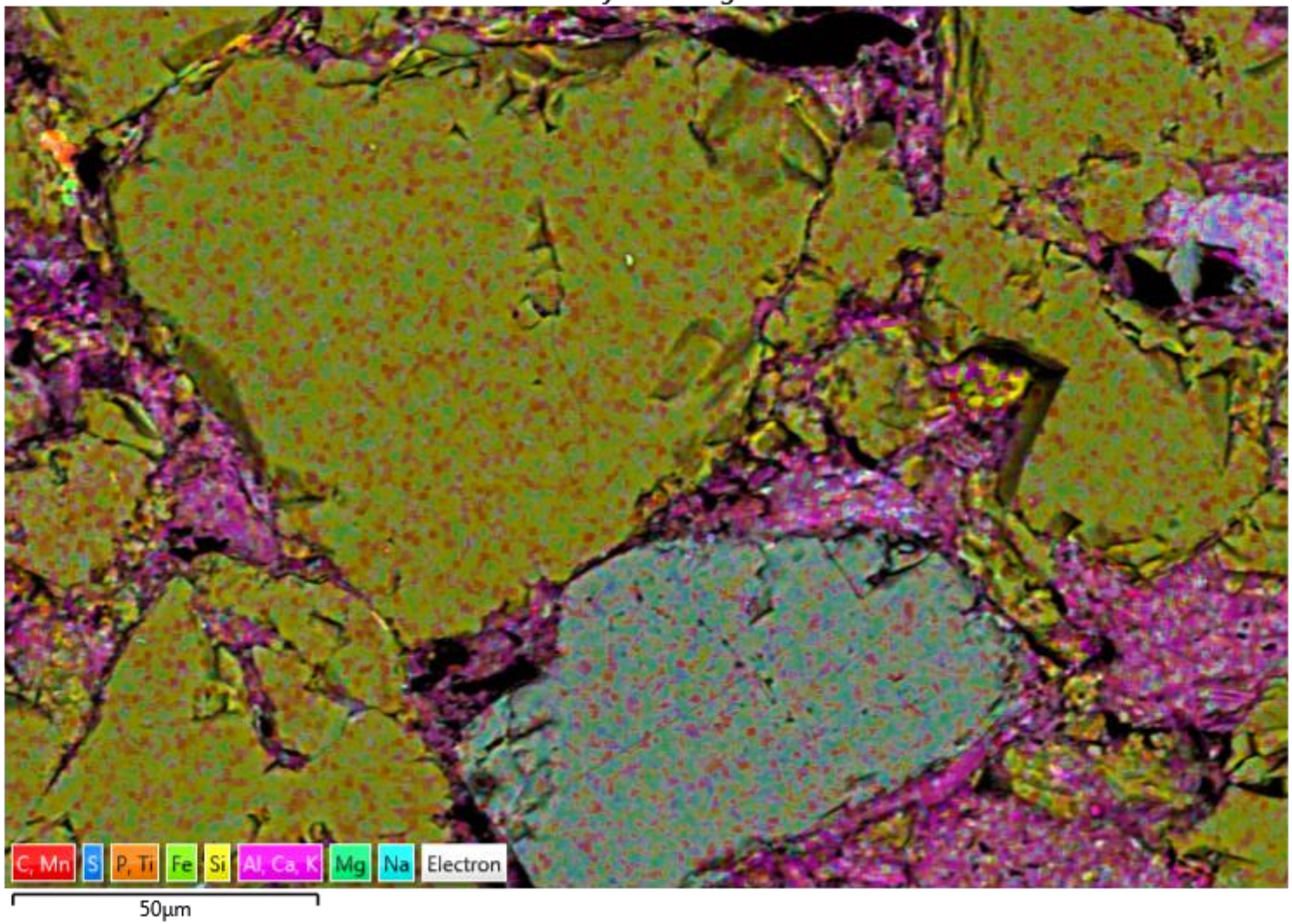
EDS Layered Image 2



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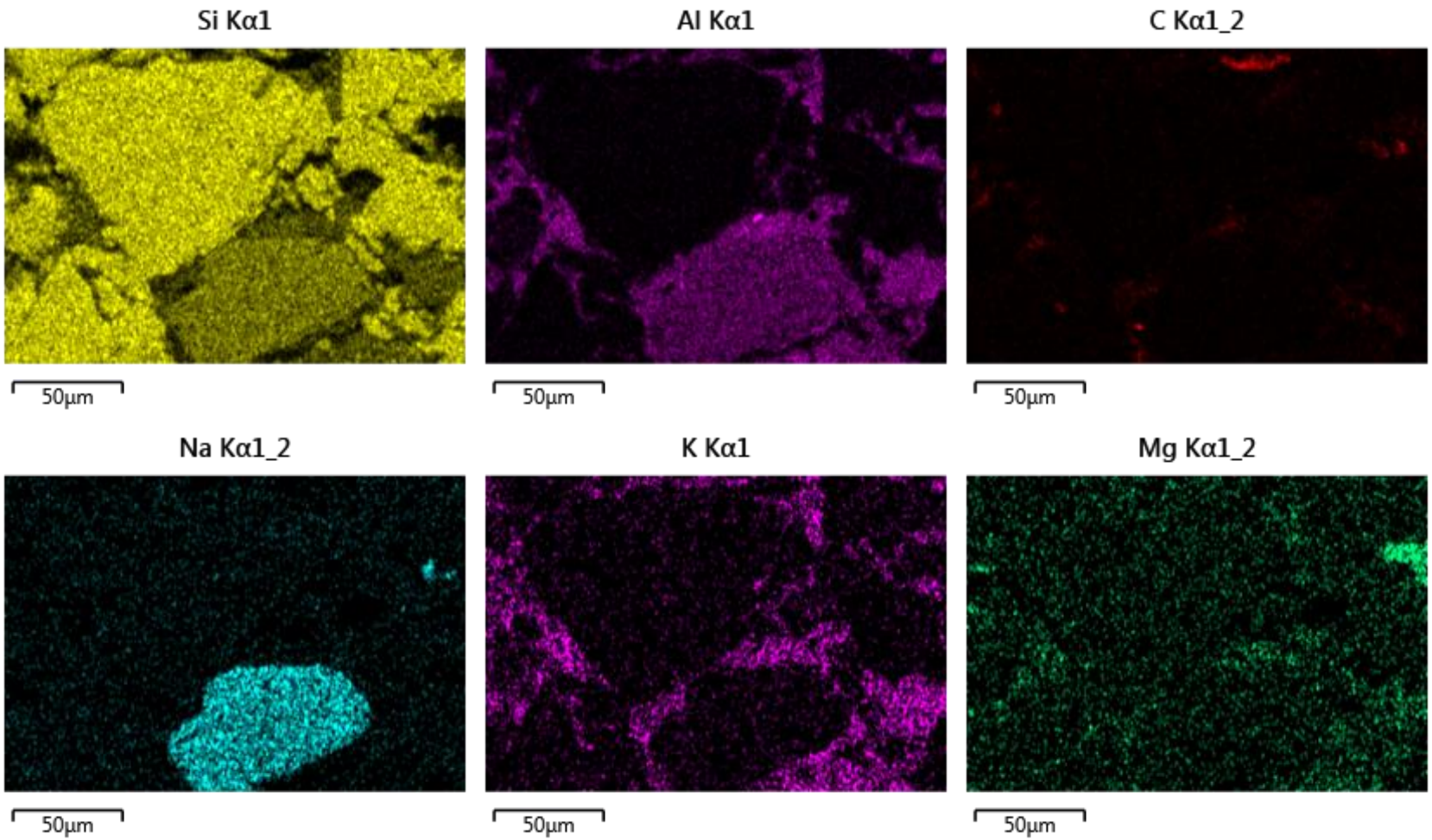

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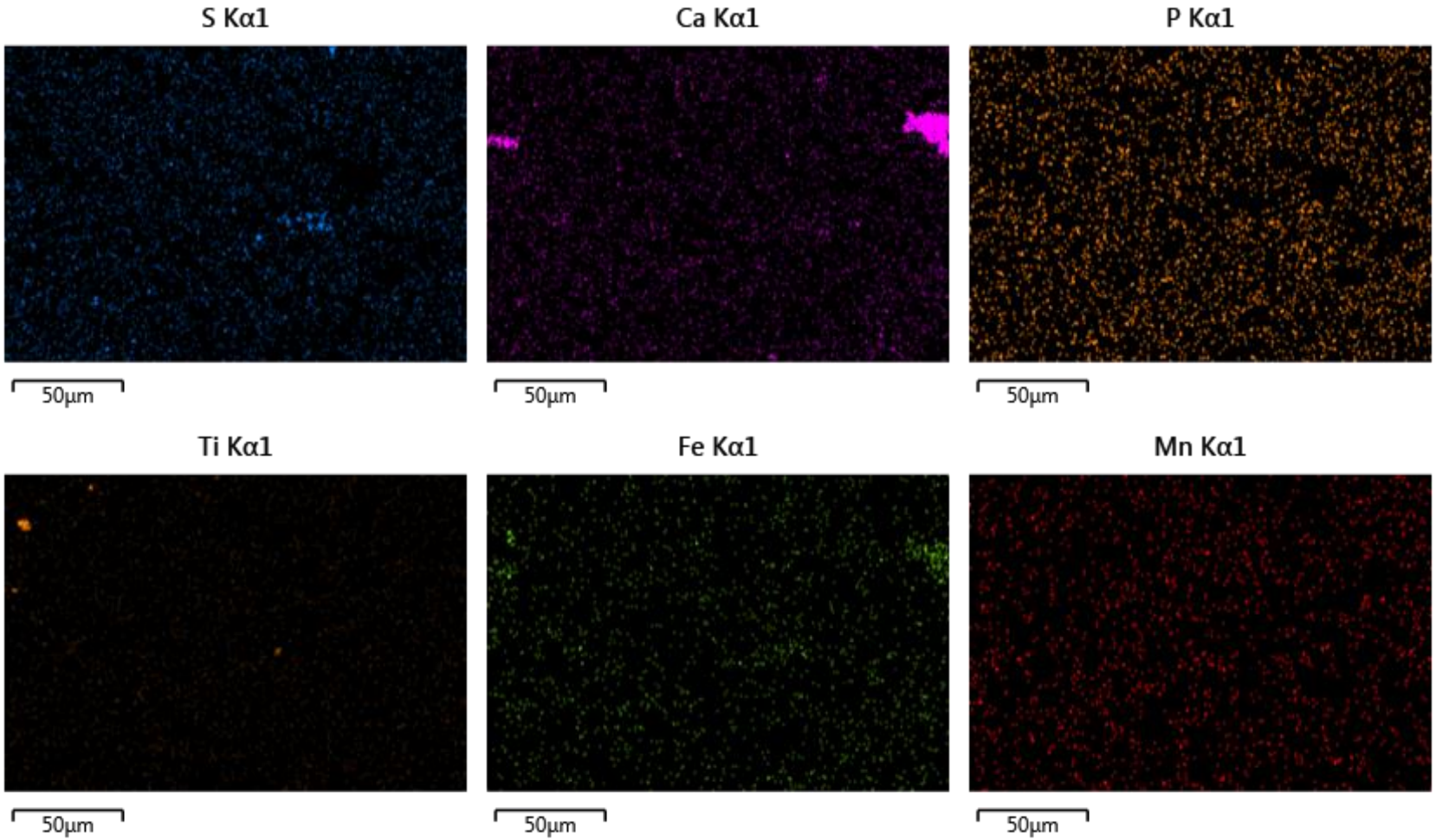

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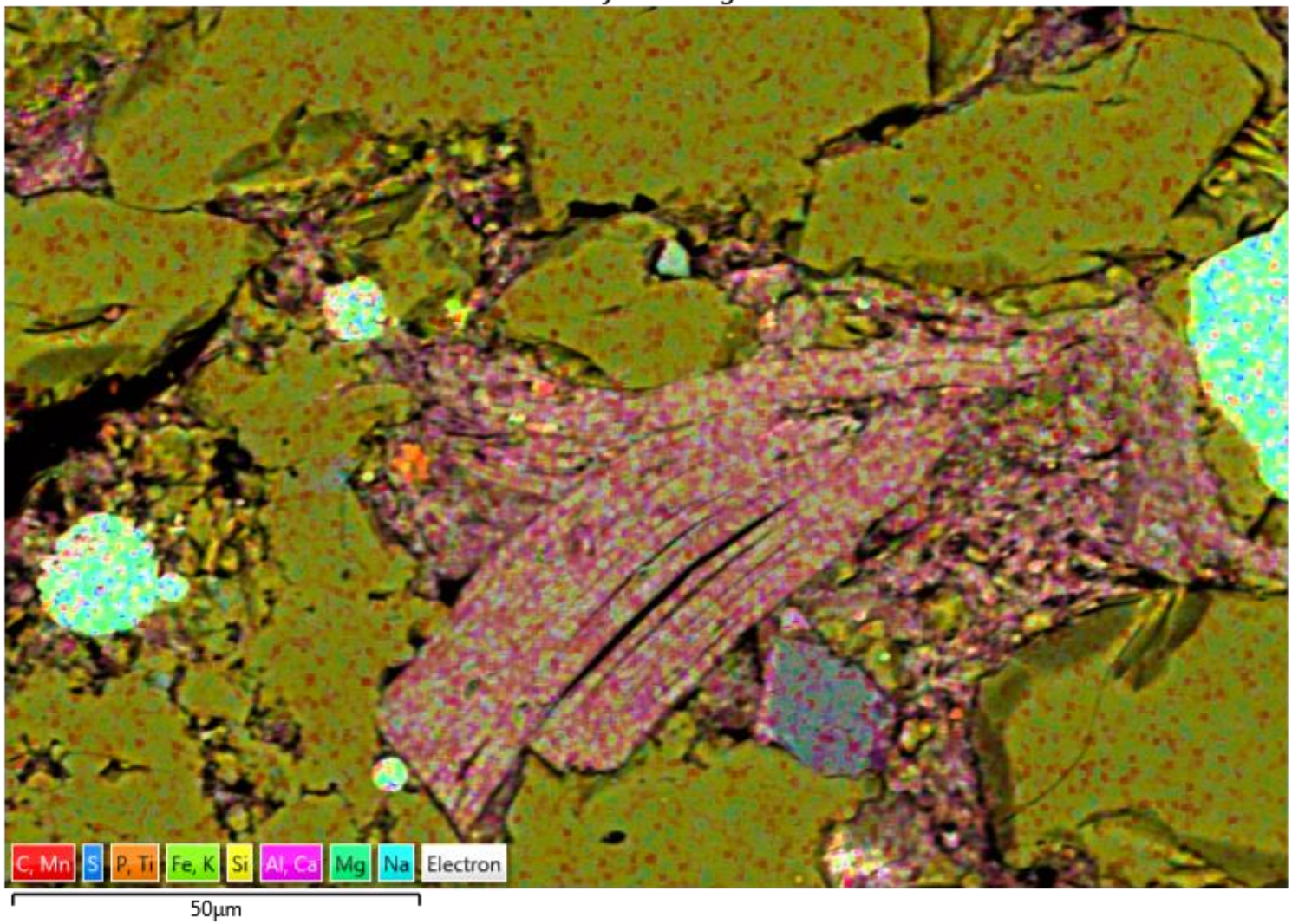
EDS Layered Image 3



OXFORD INSTRUMENTS
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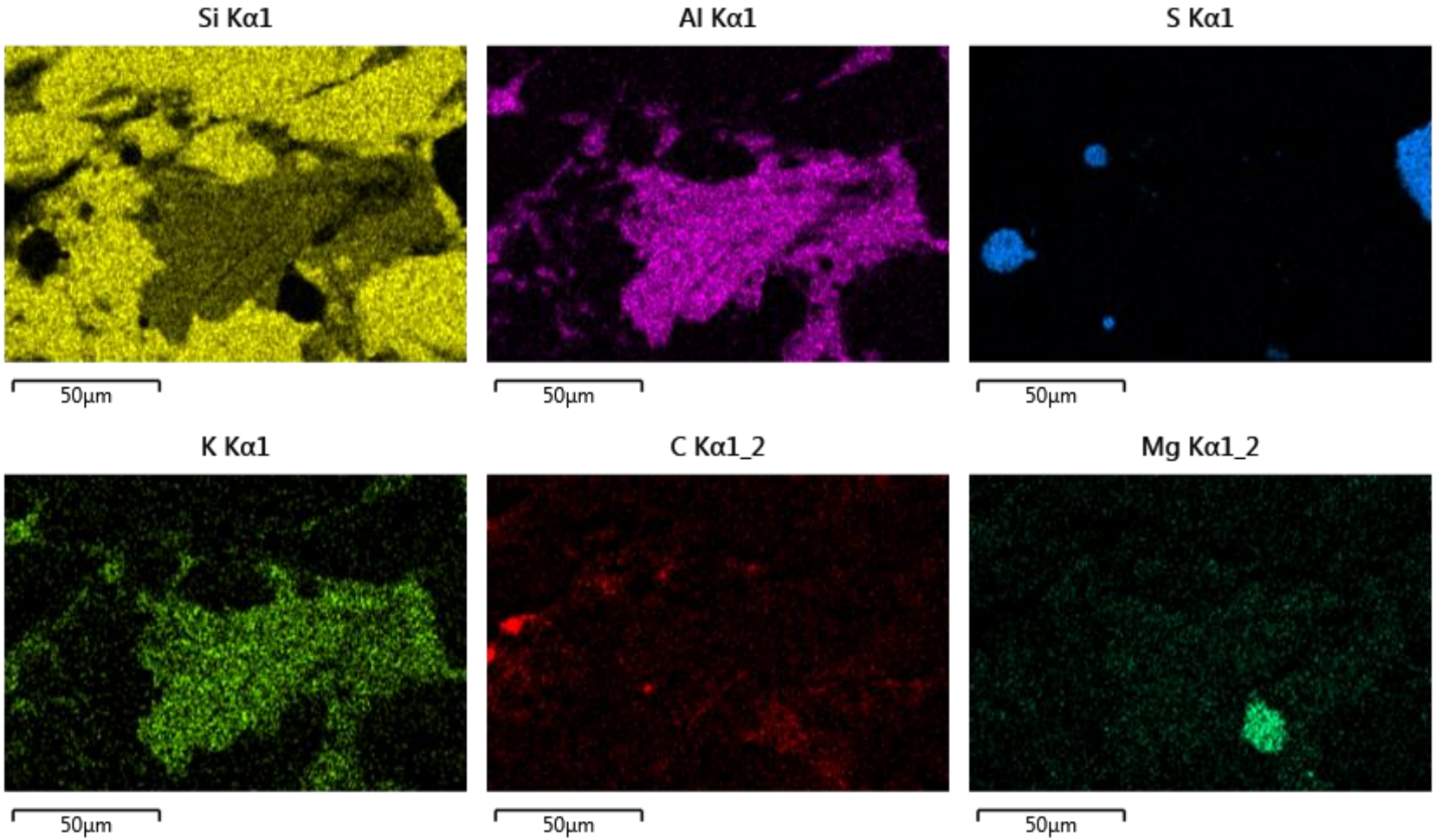

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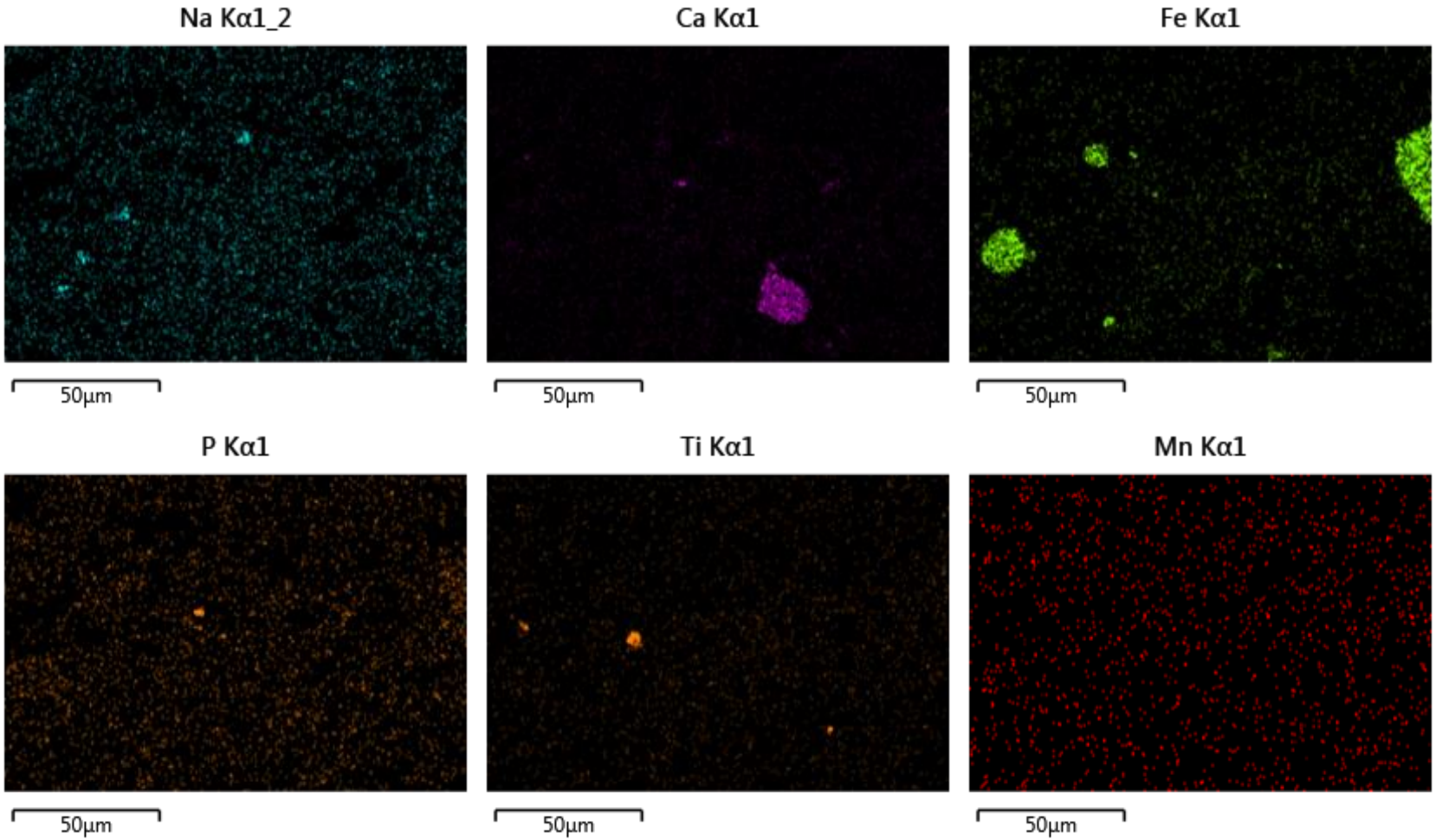

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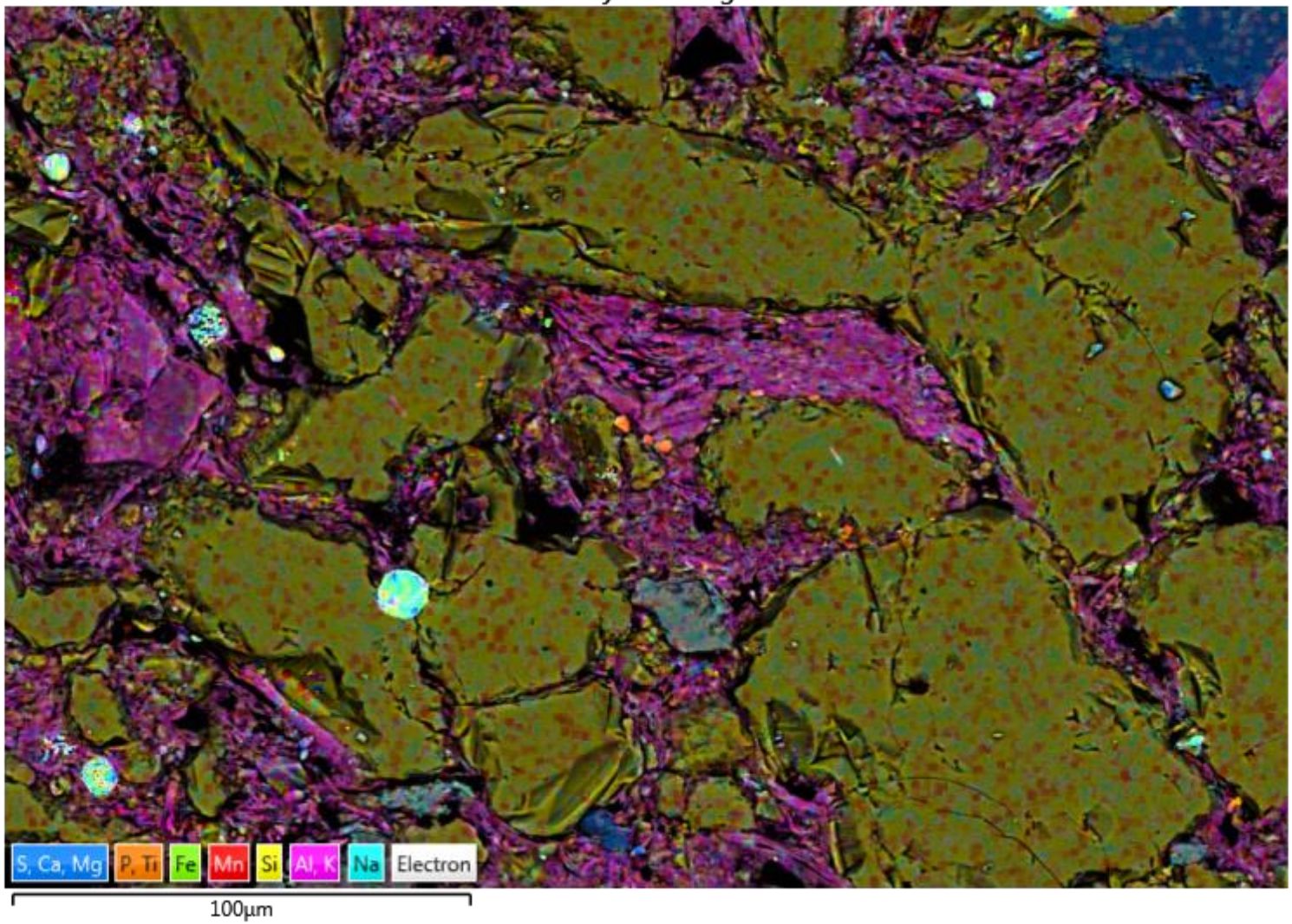

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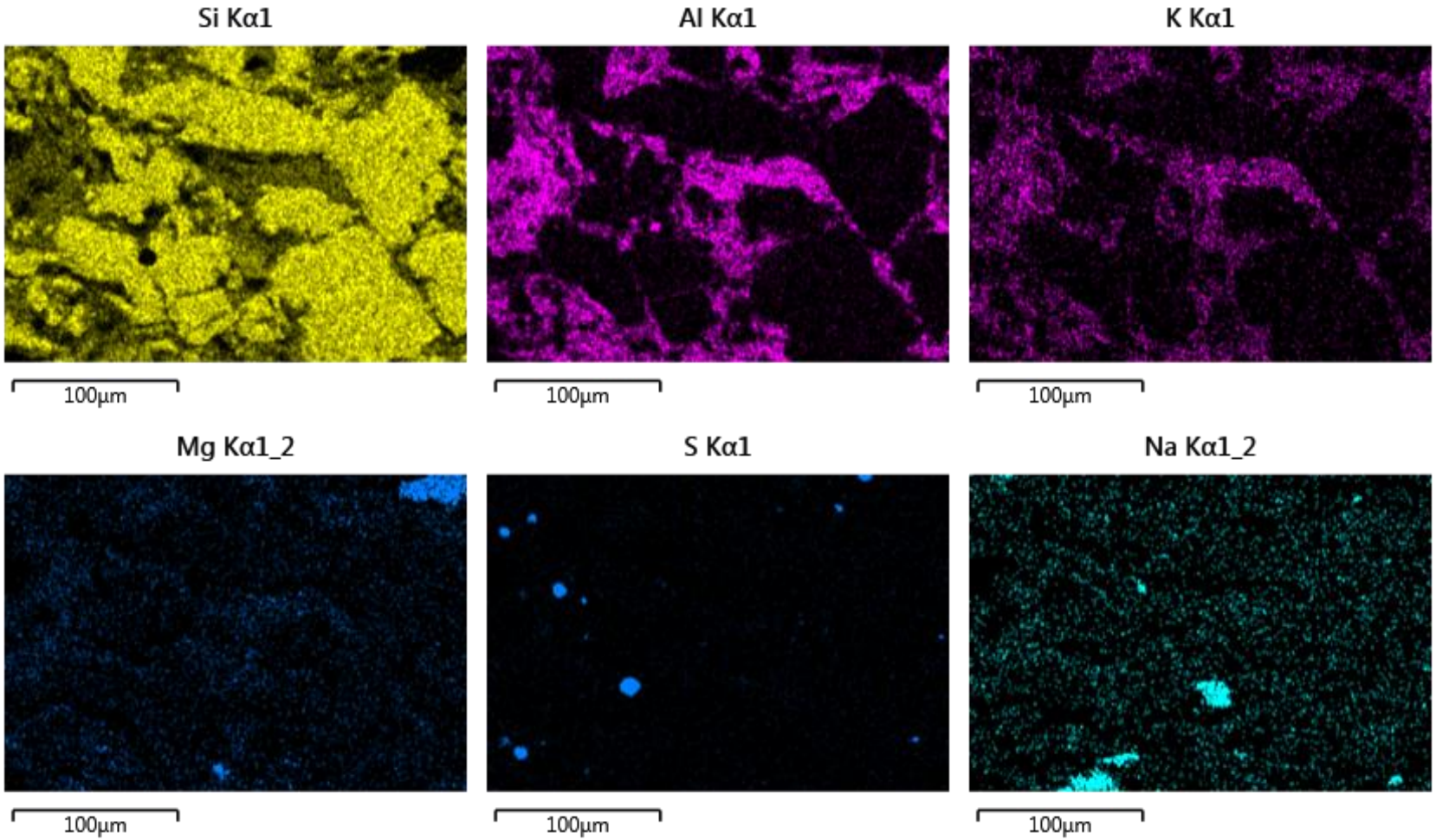

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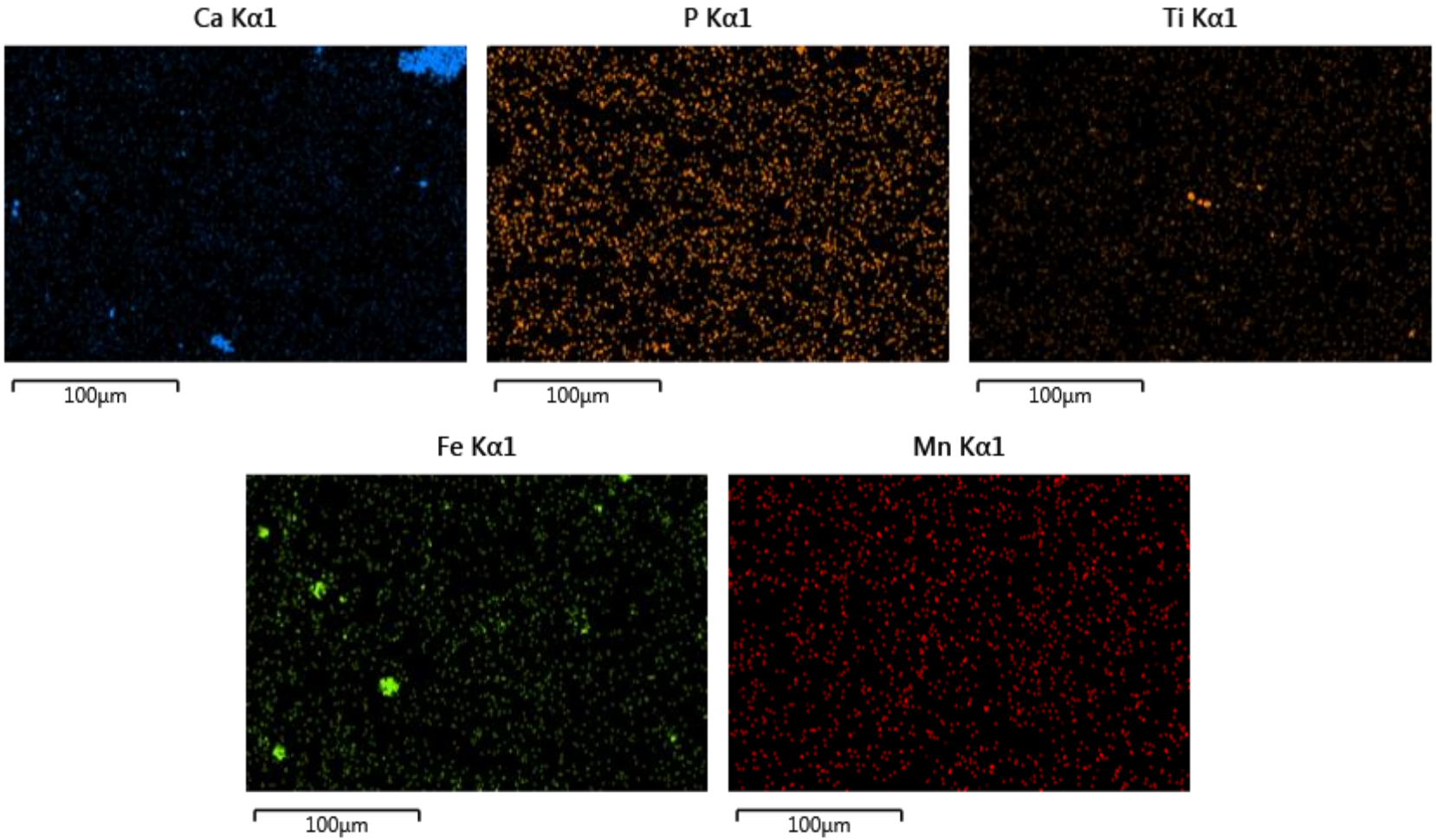

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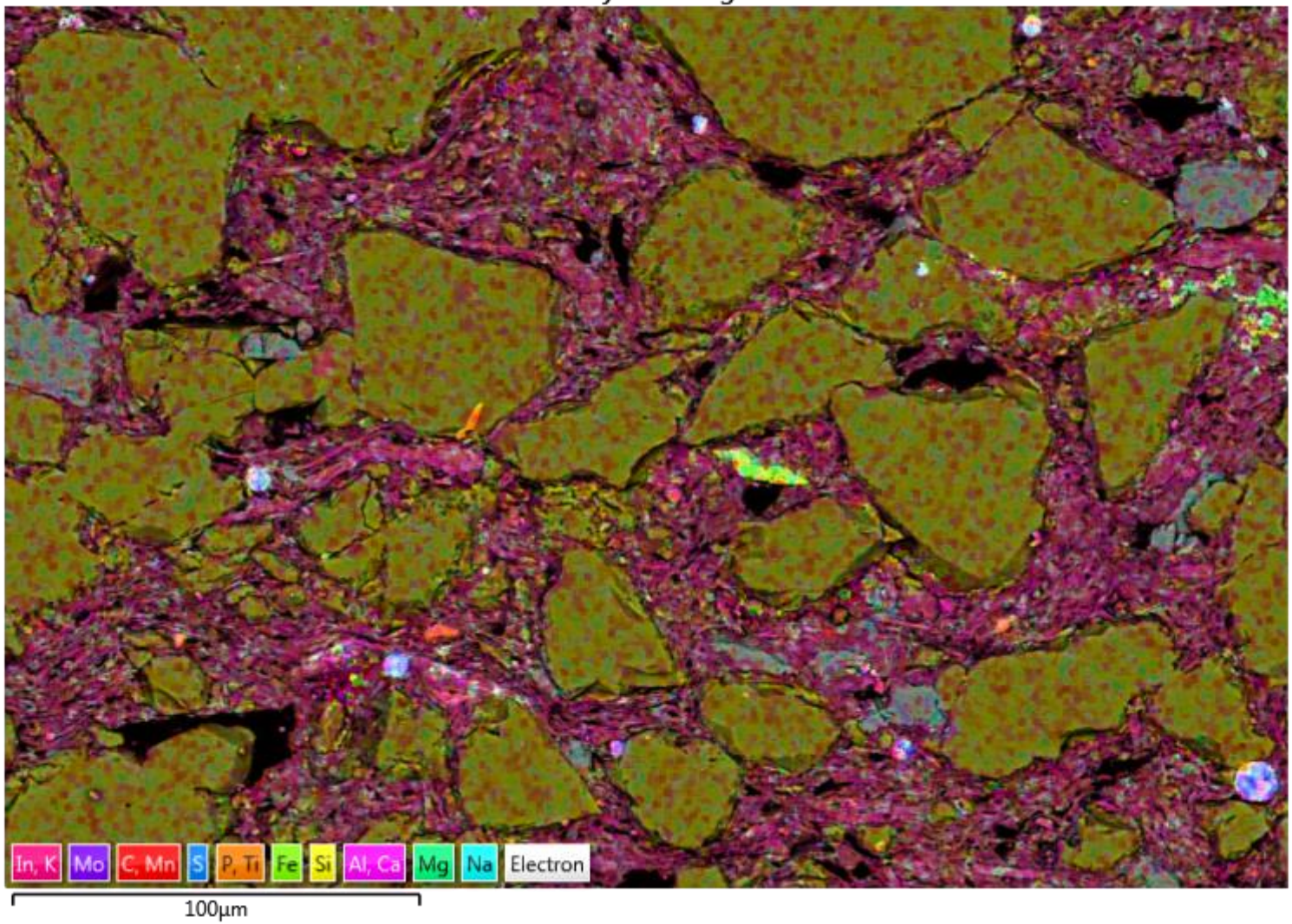

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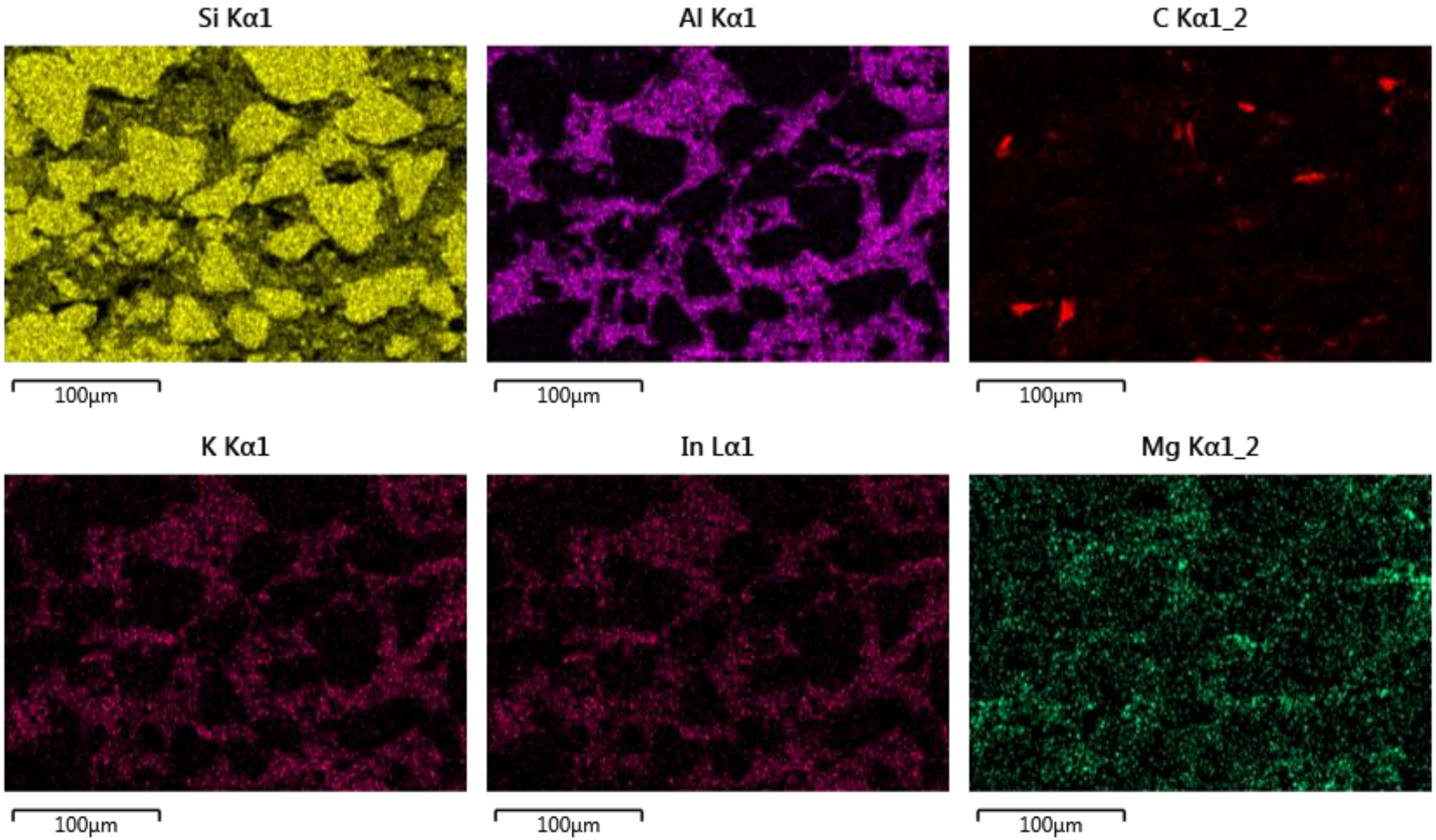
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C Kα1_2
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In Lα1
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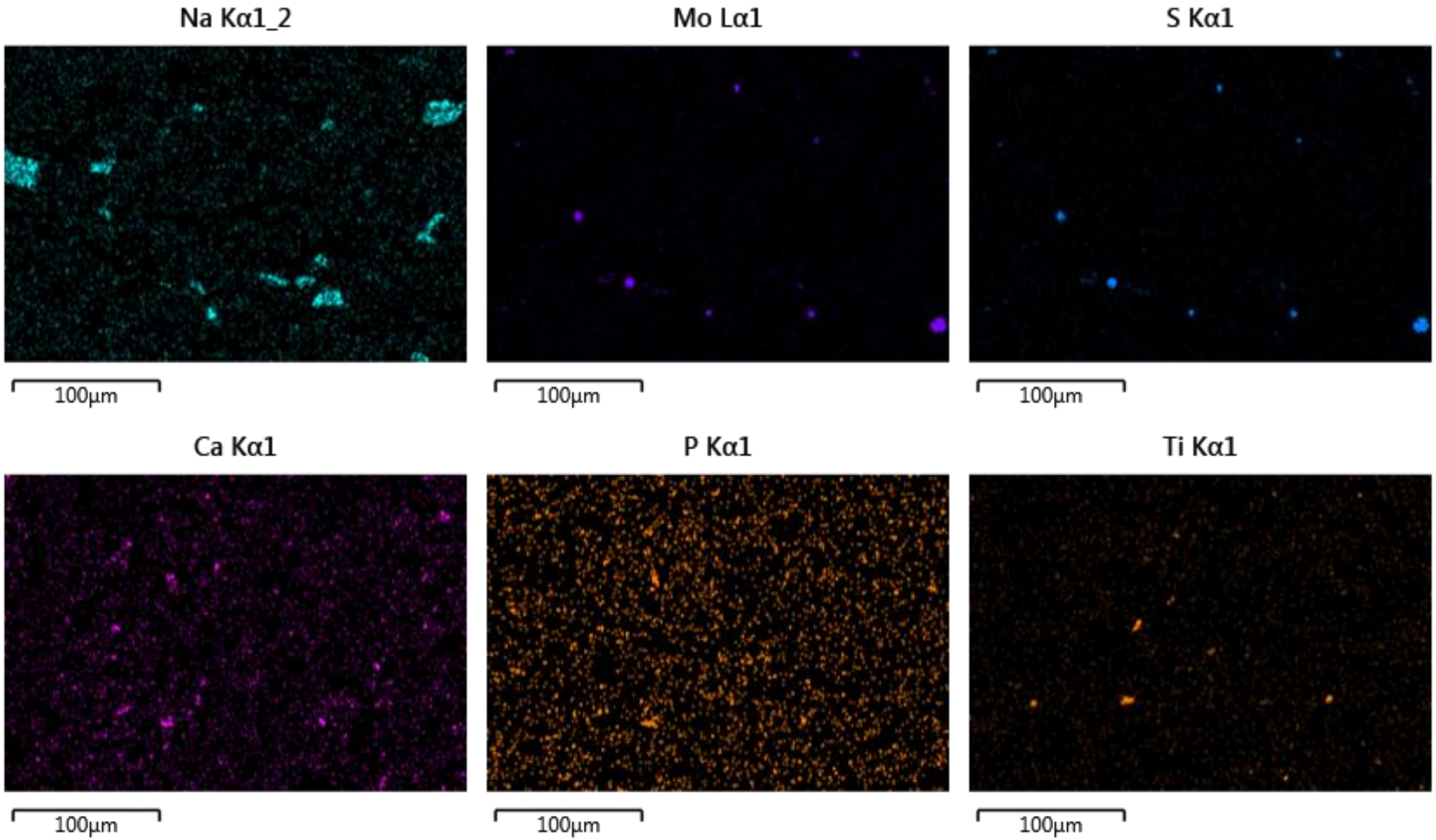
100µm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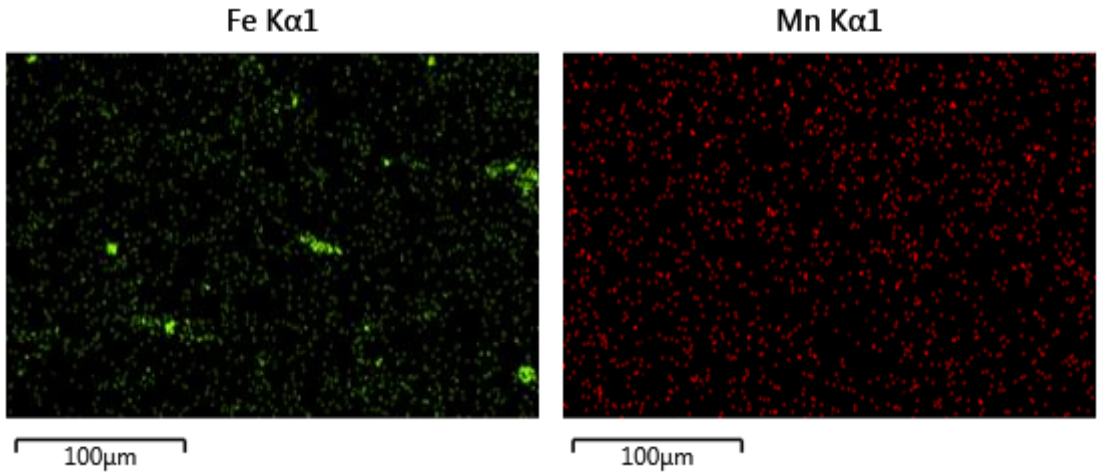

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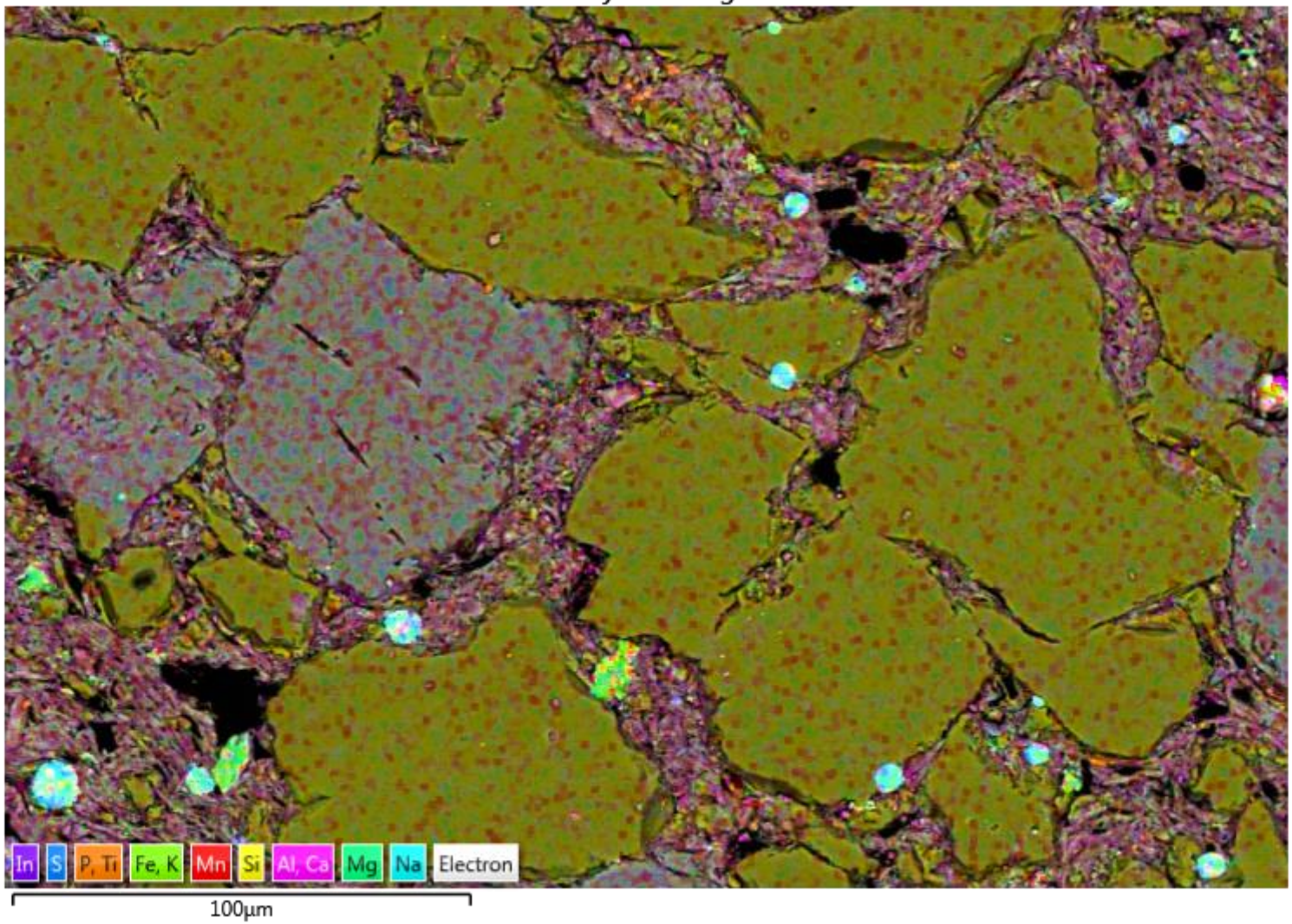

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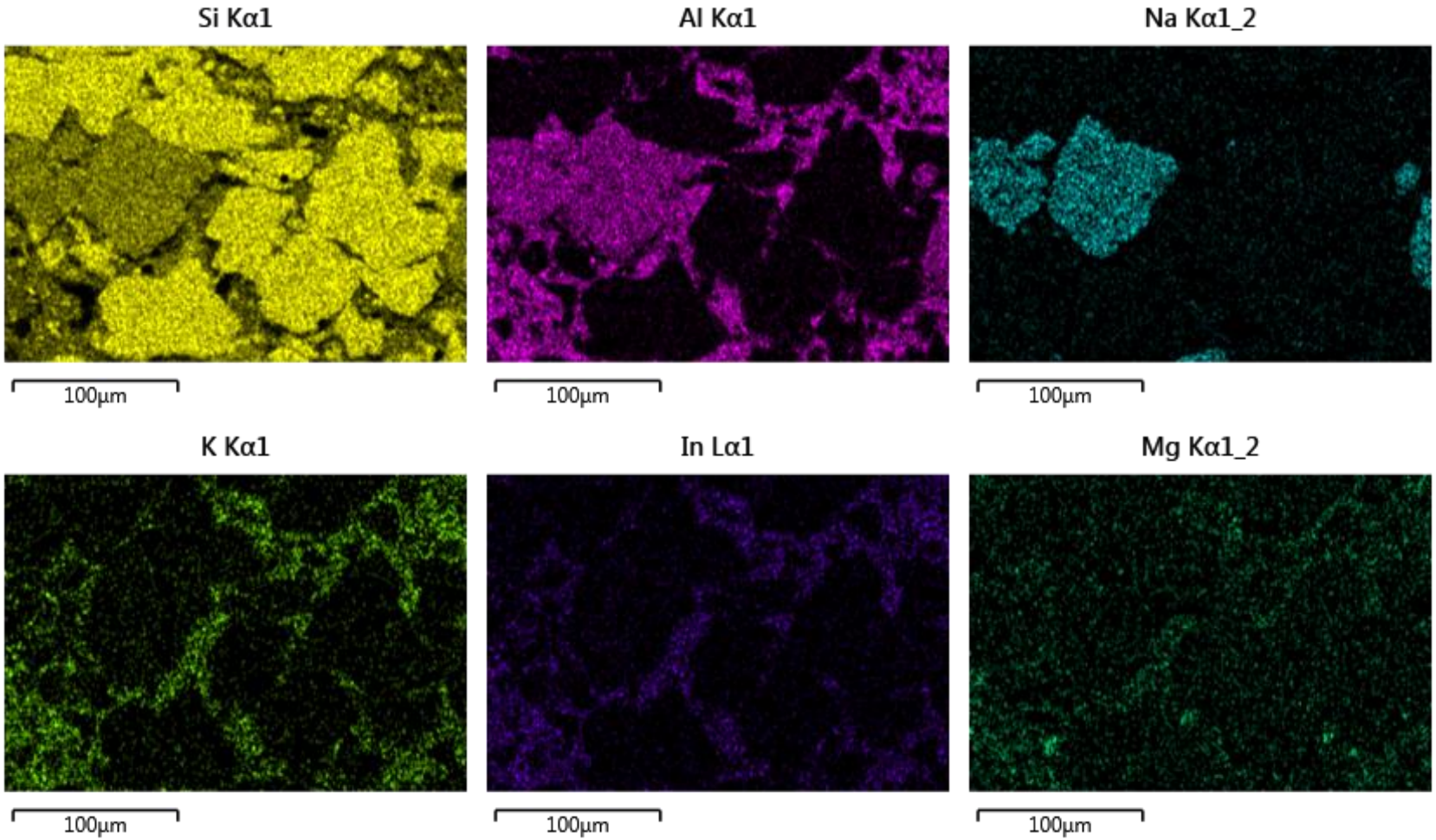

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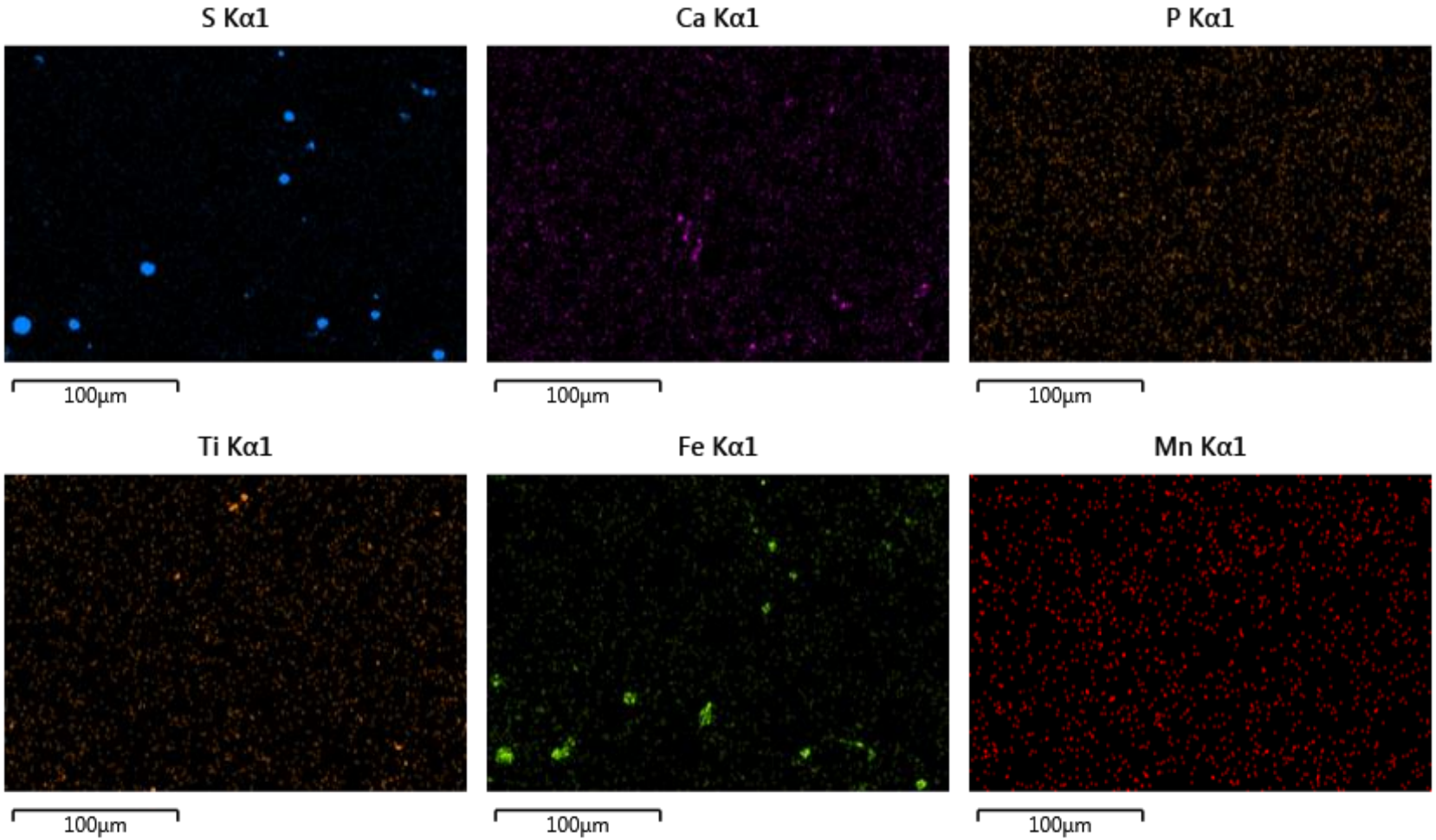

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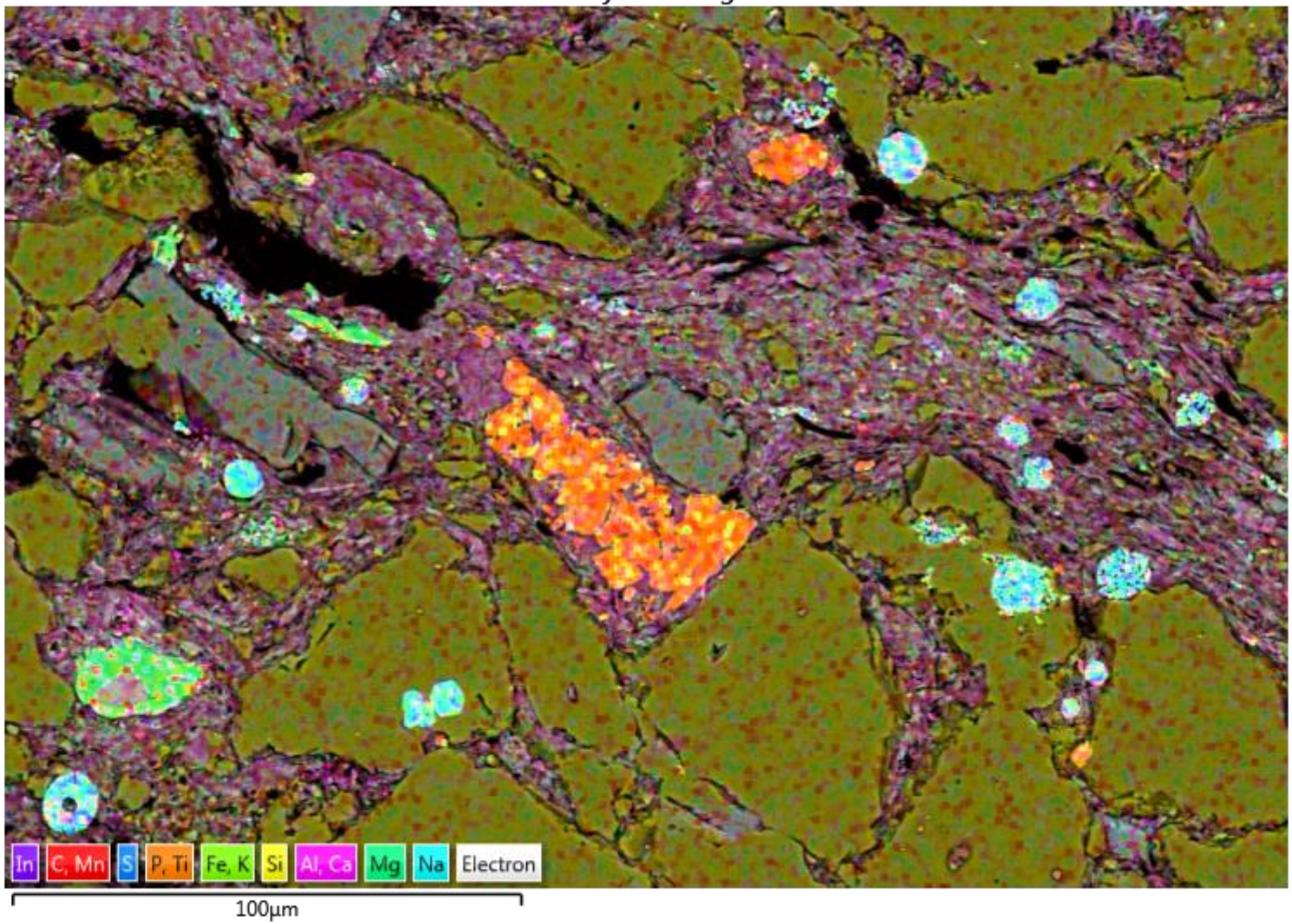

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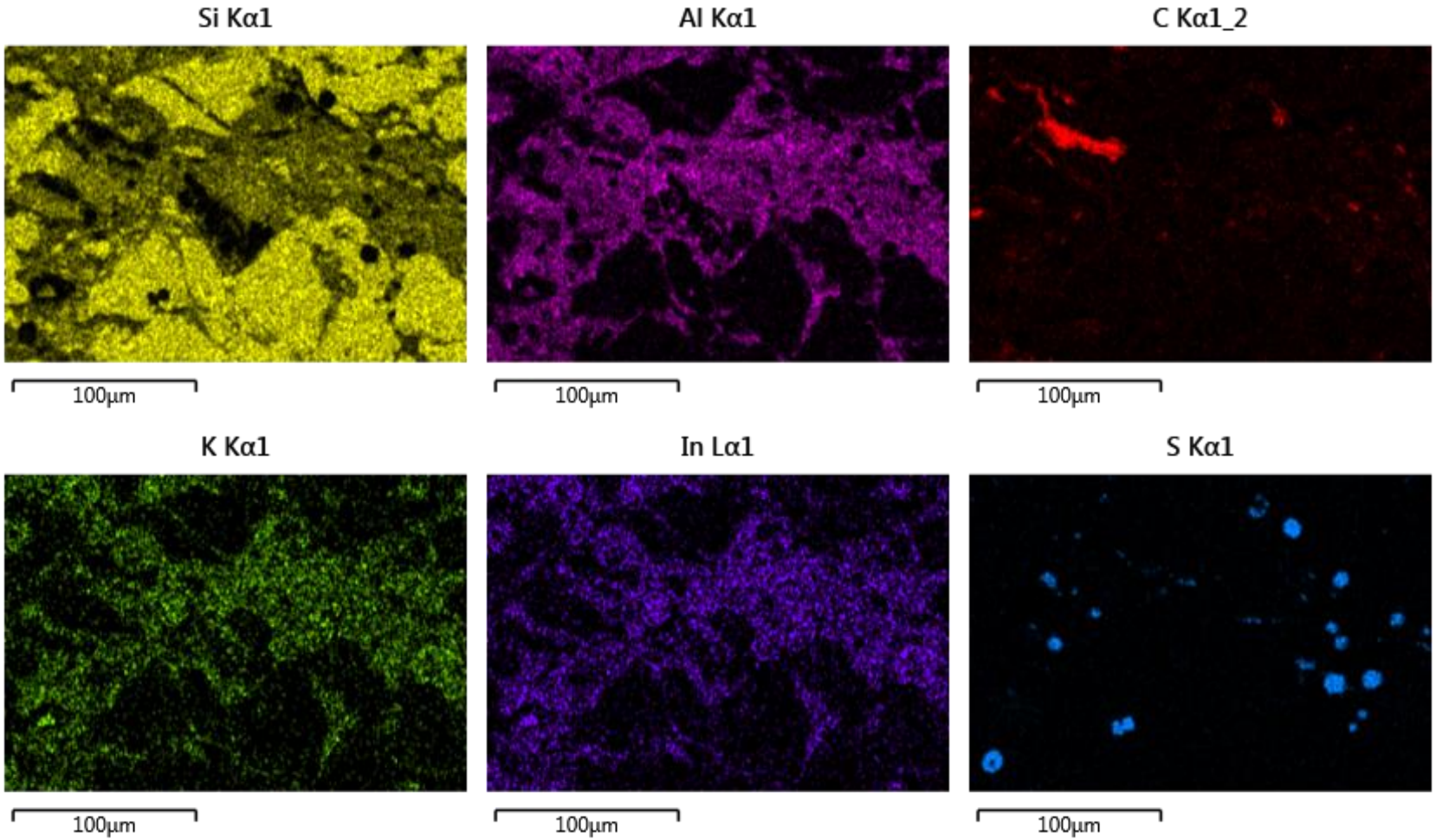

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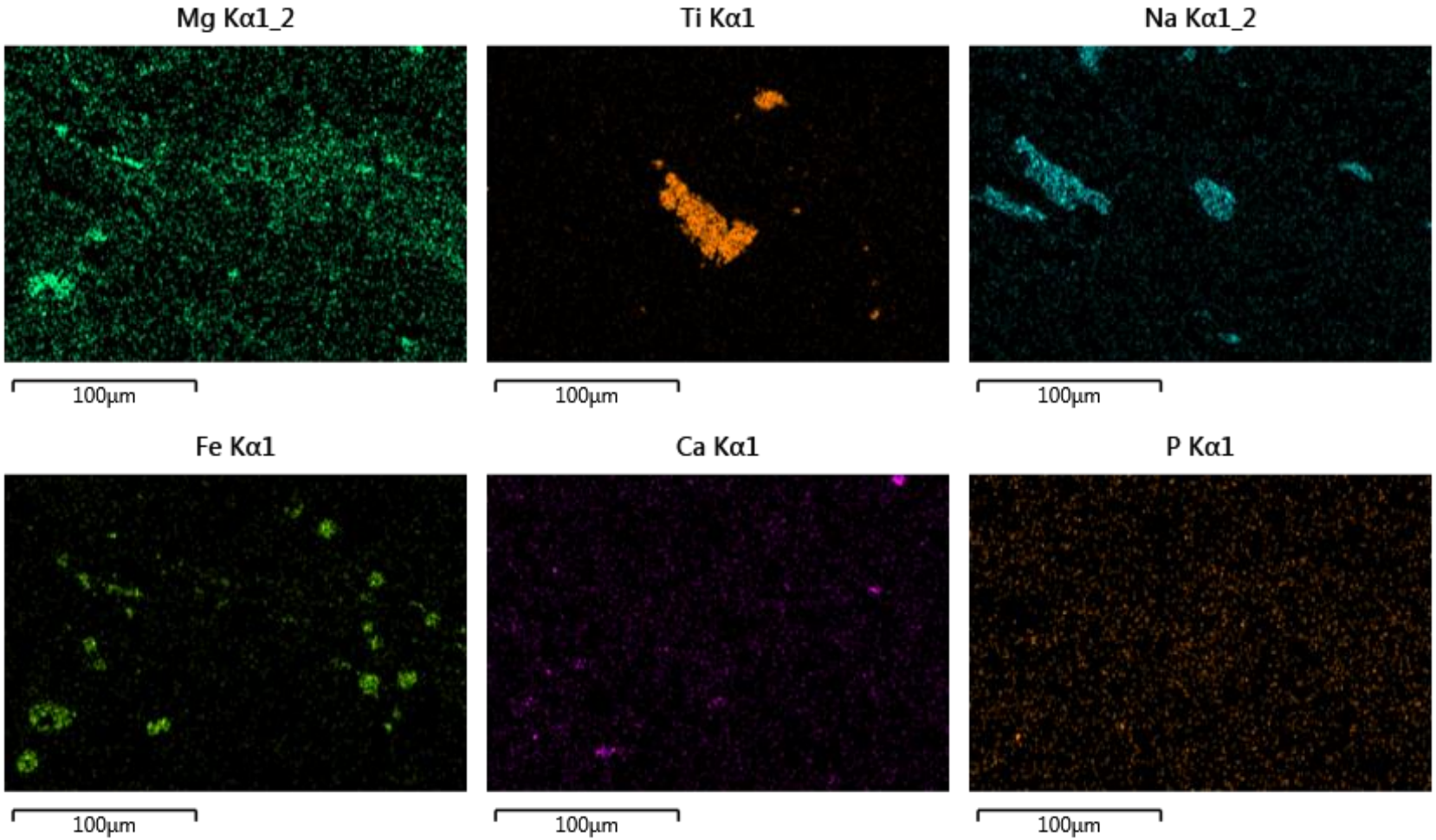

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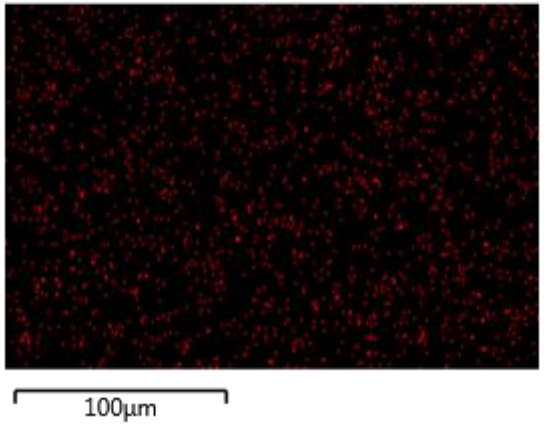
Mn Kα1



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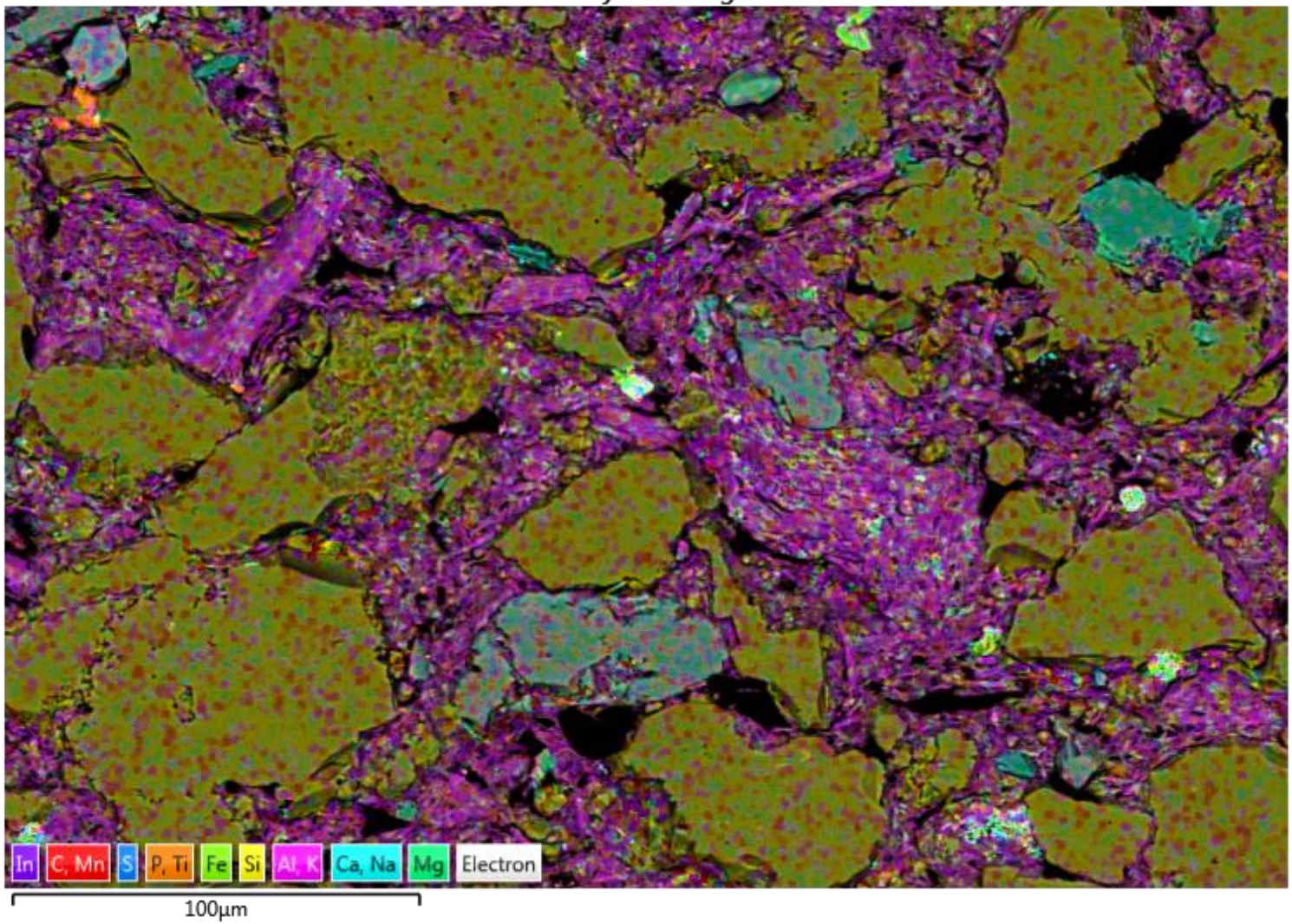
EDS Layered Image 1



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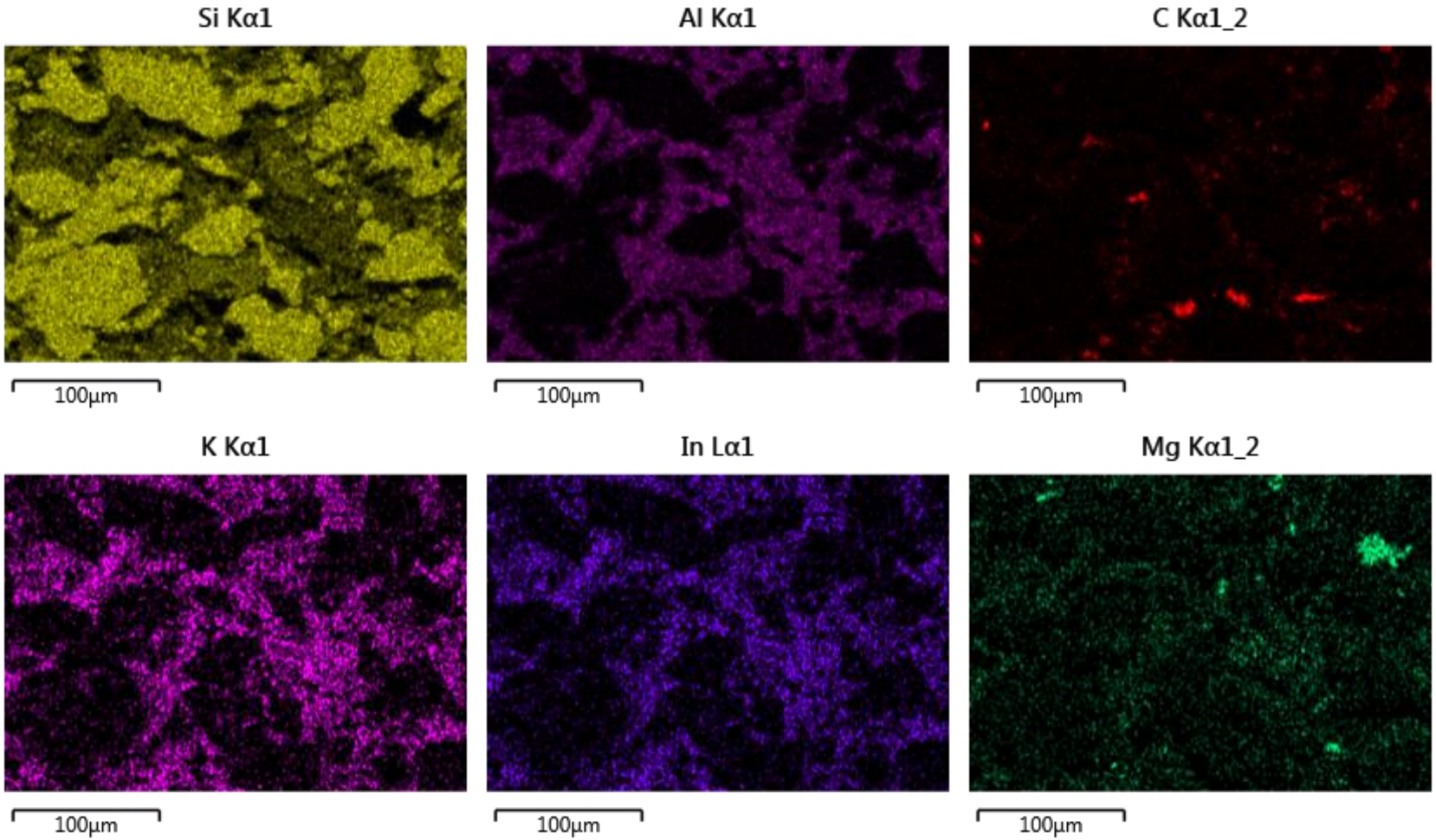

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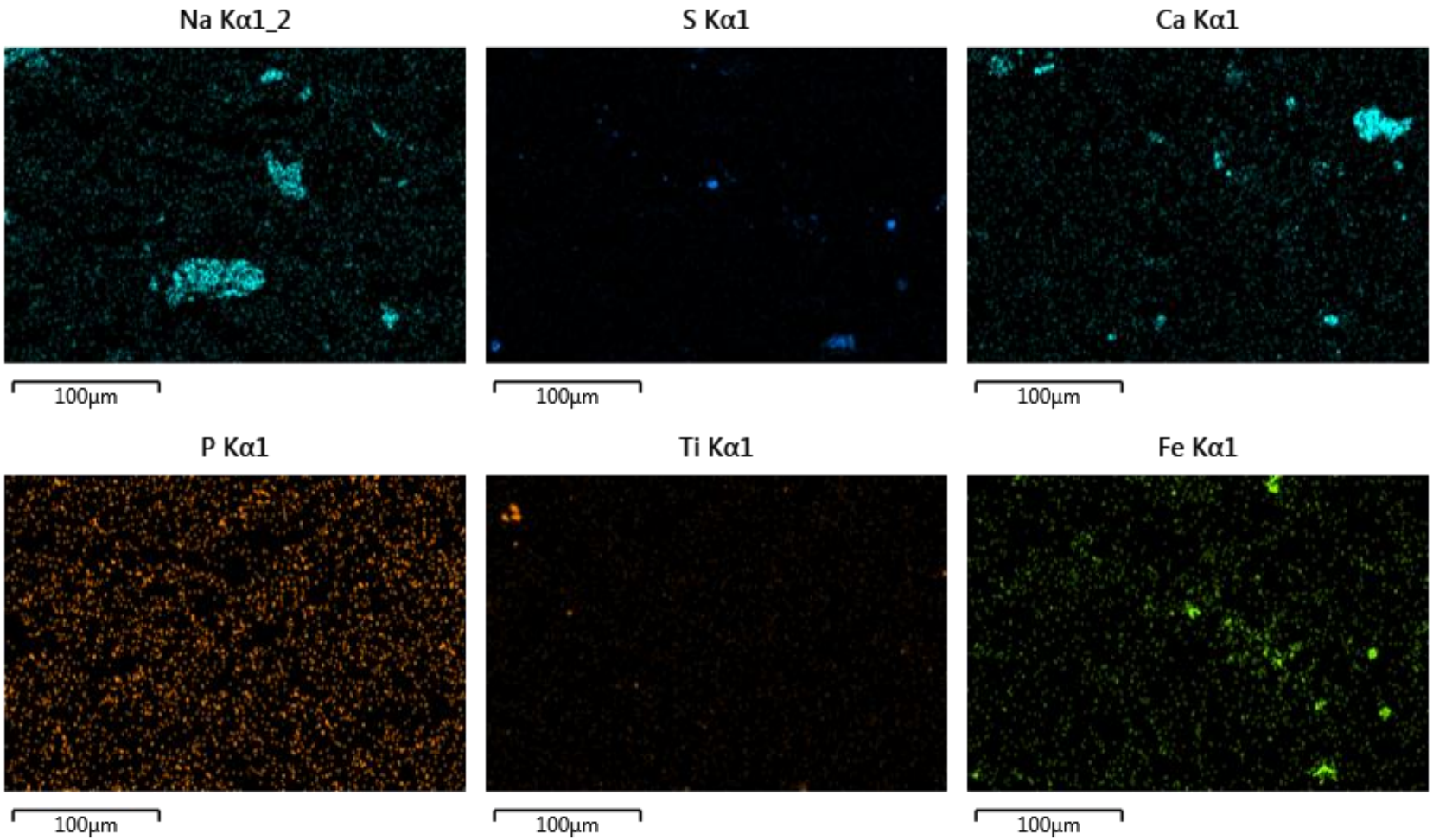

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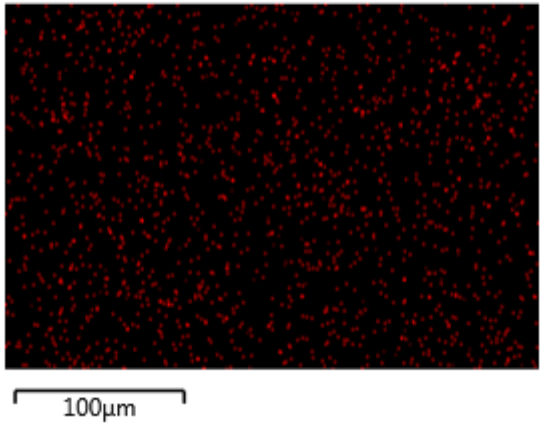

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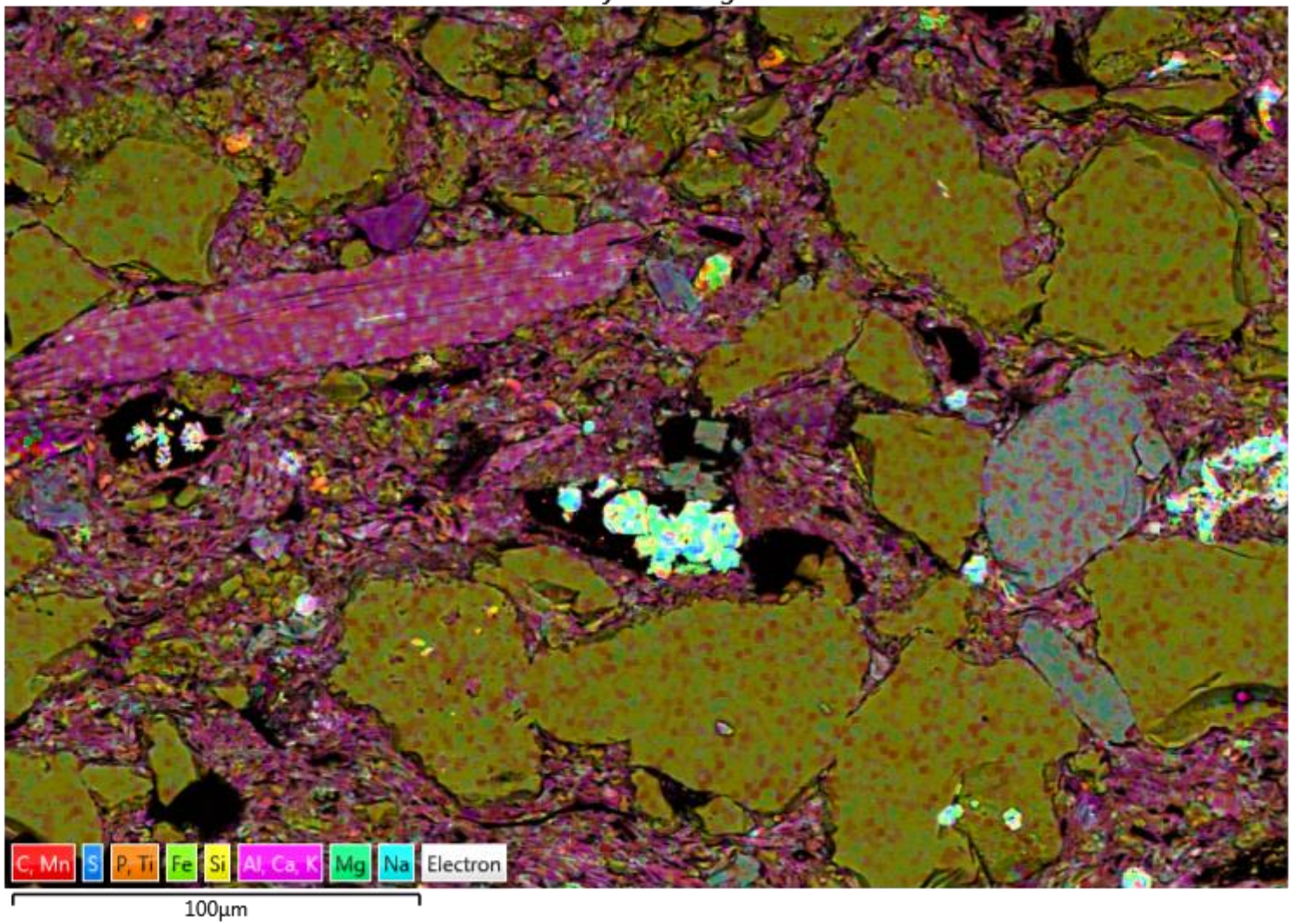

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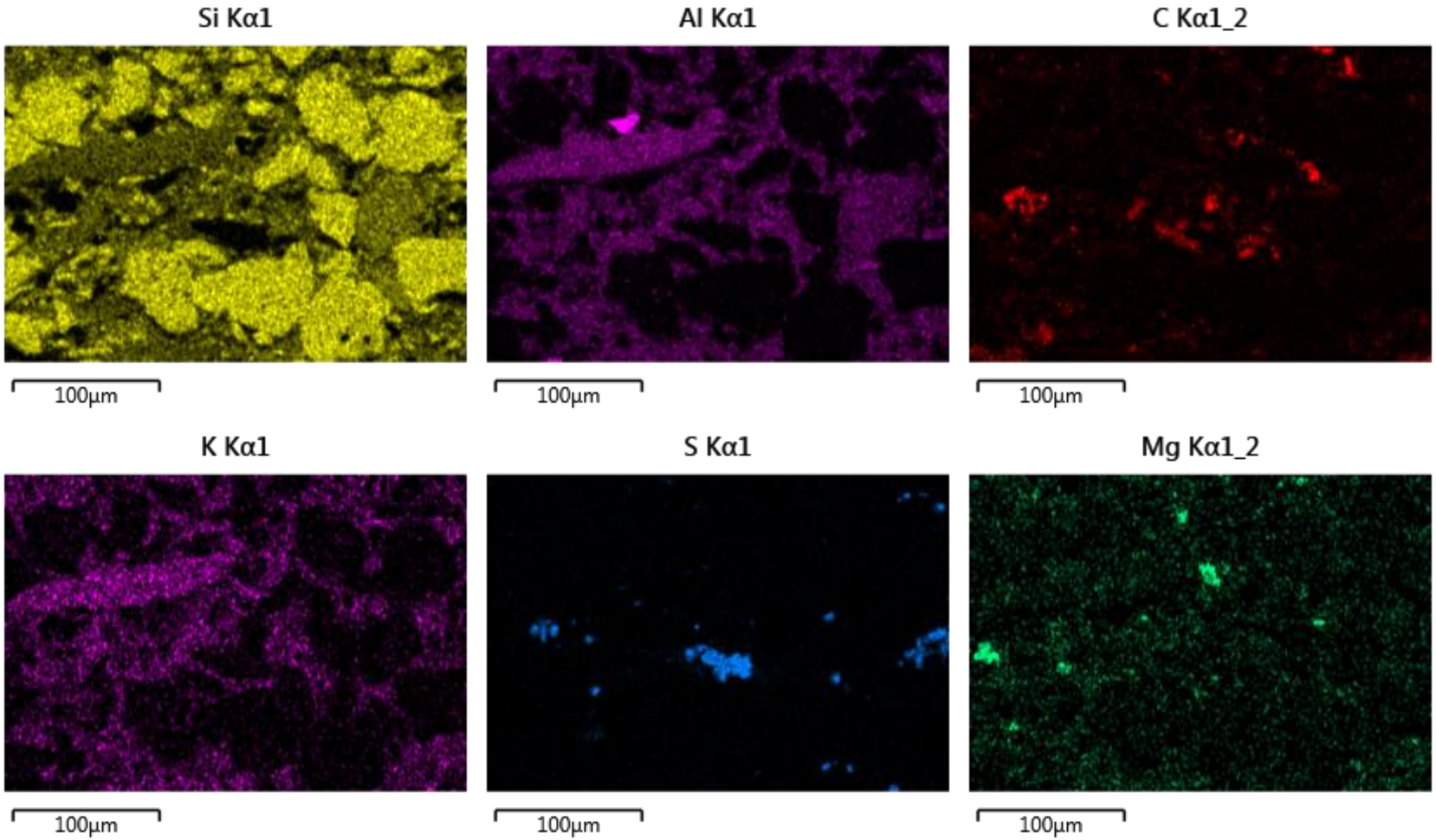

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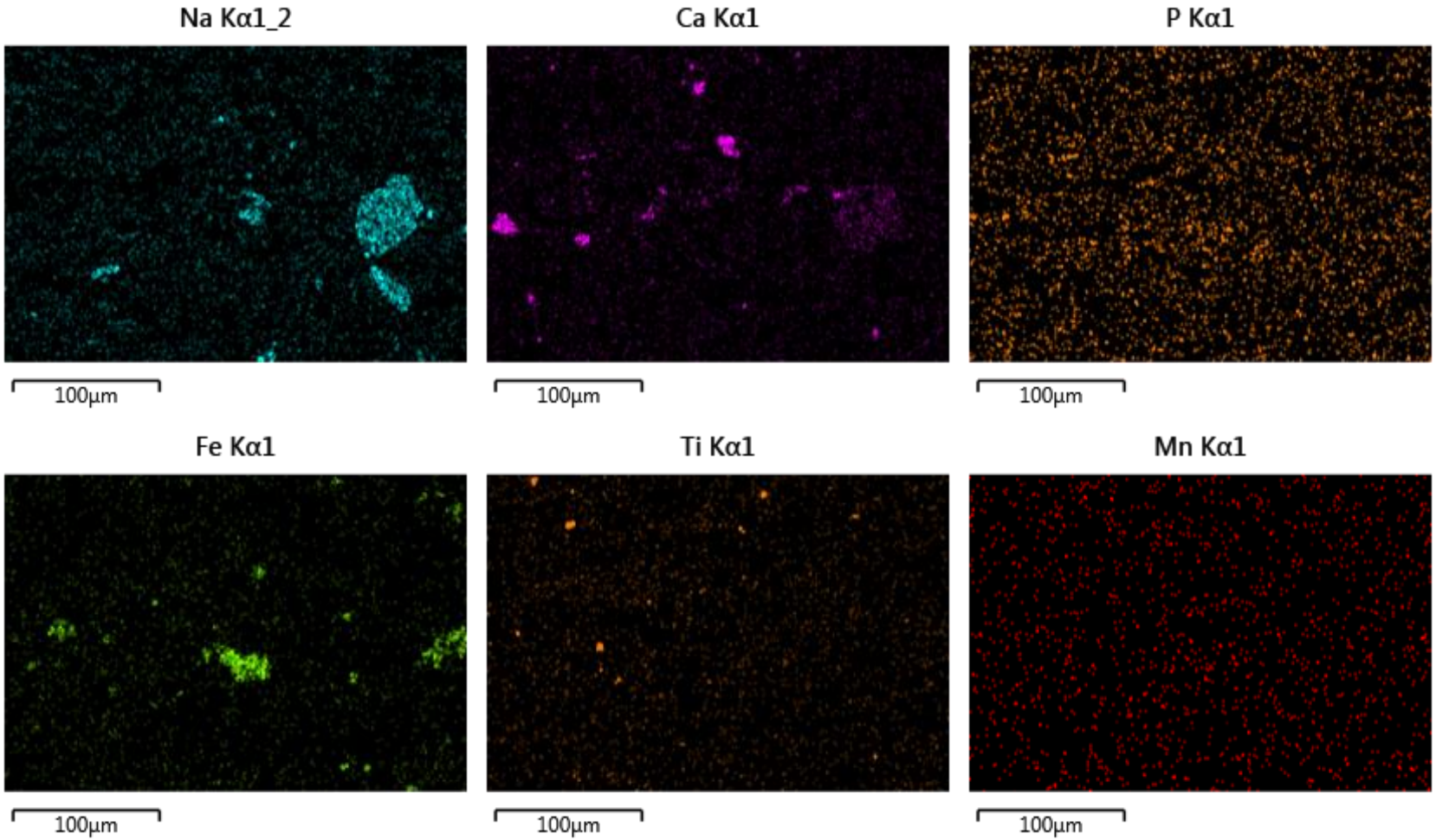

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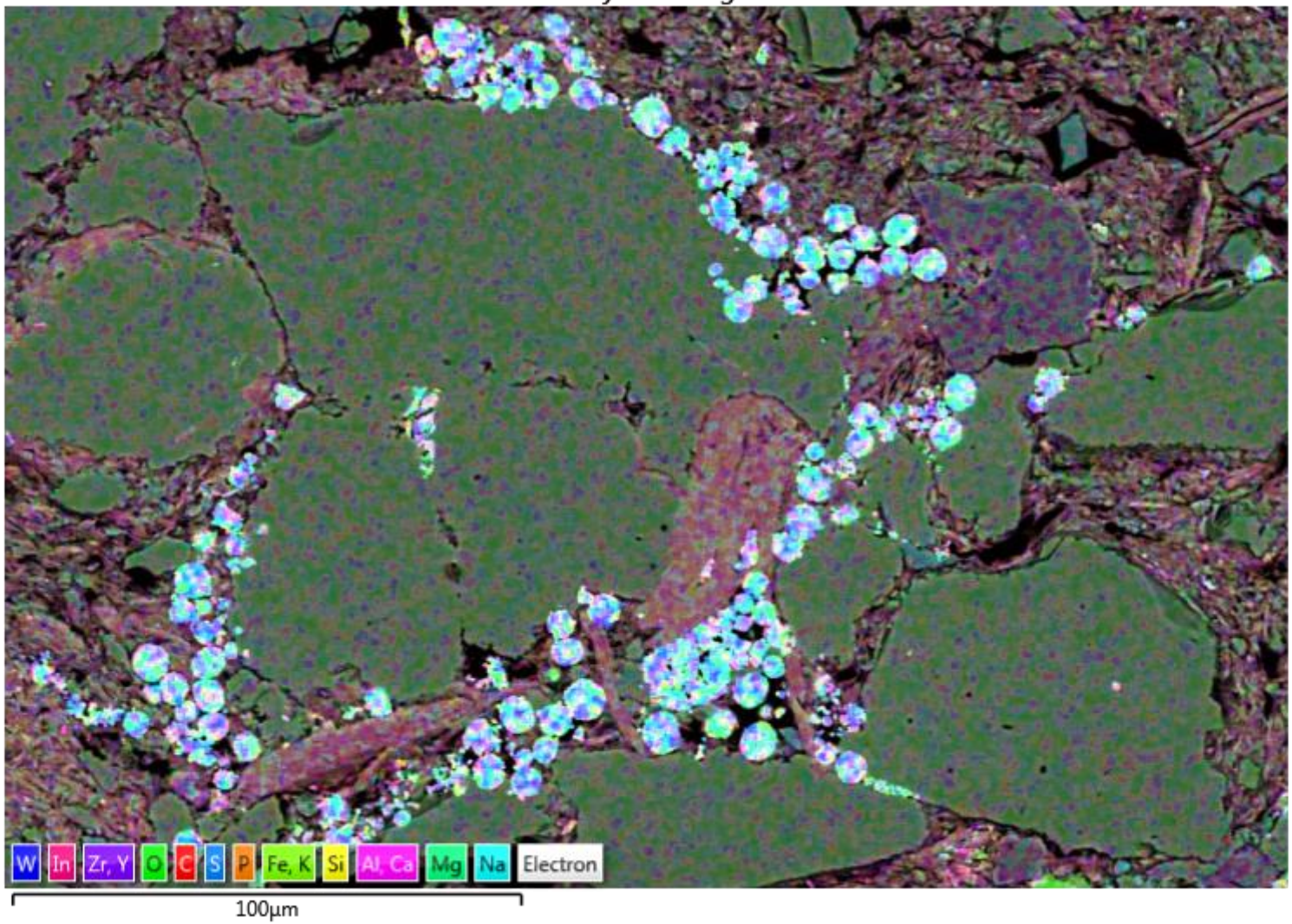
EDS Layered Image 3



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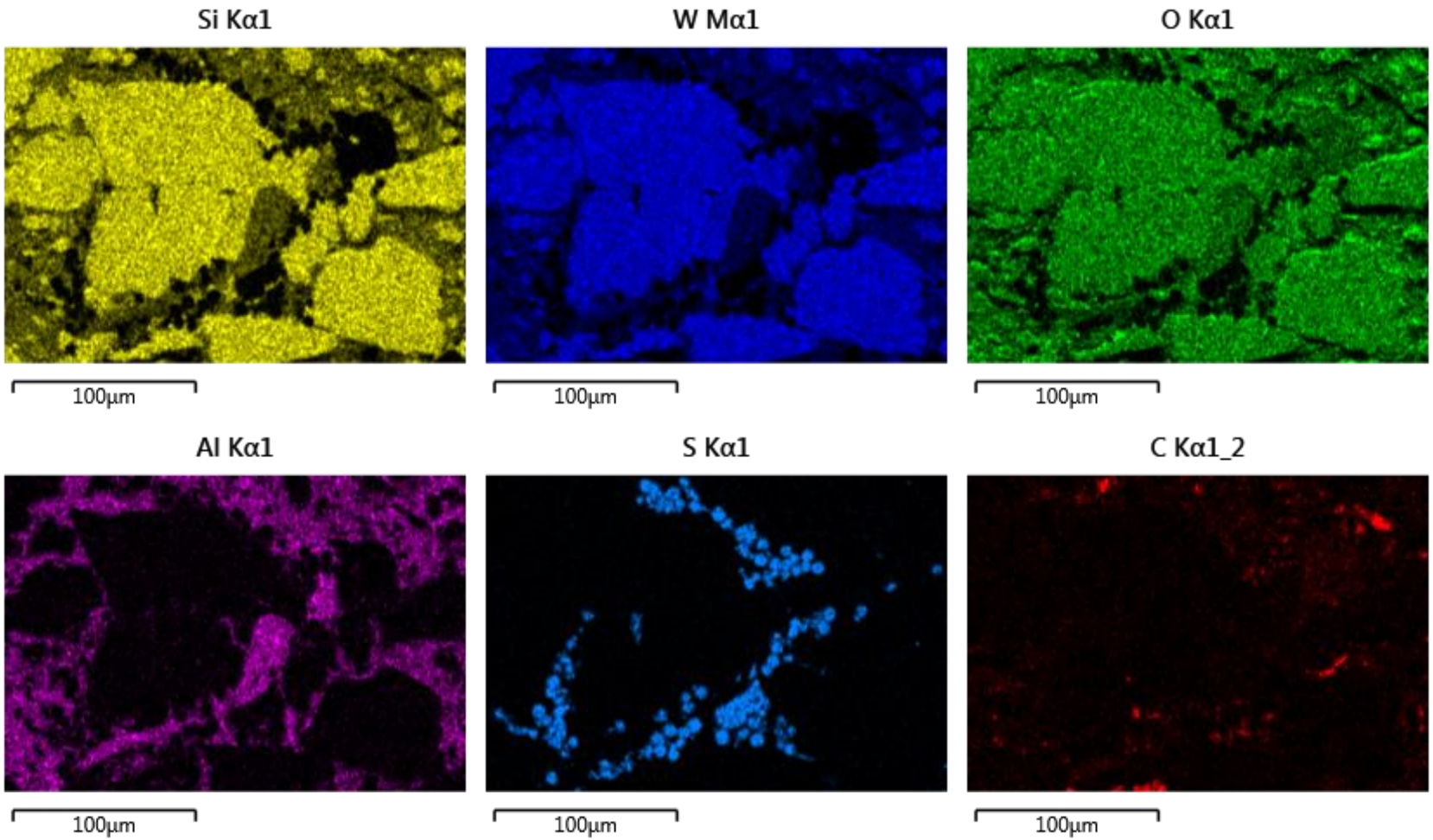
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Al Kα1
S Kα1
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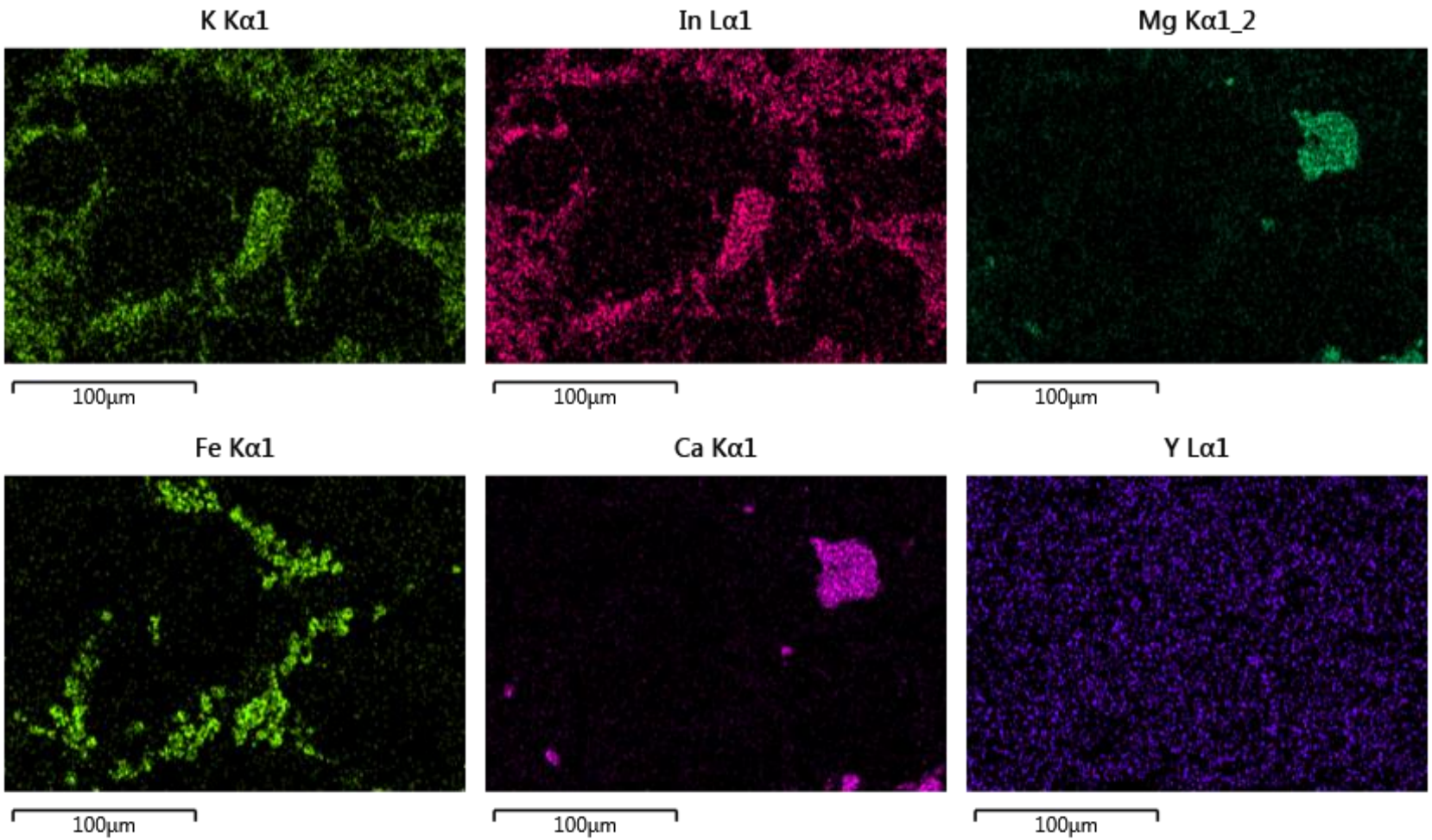

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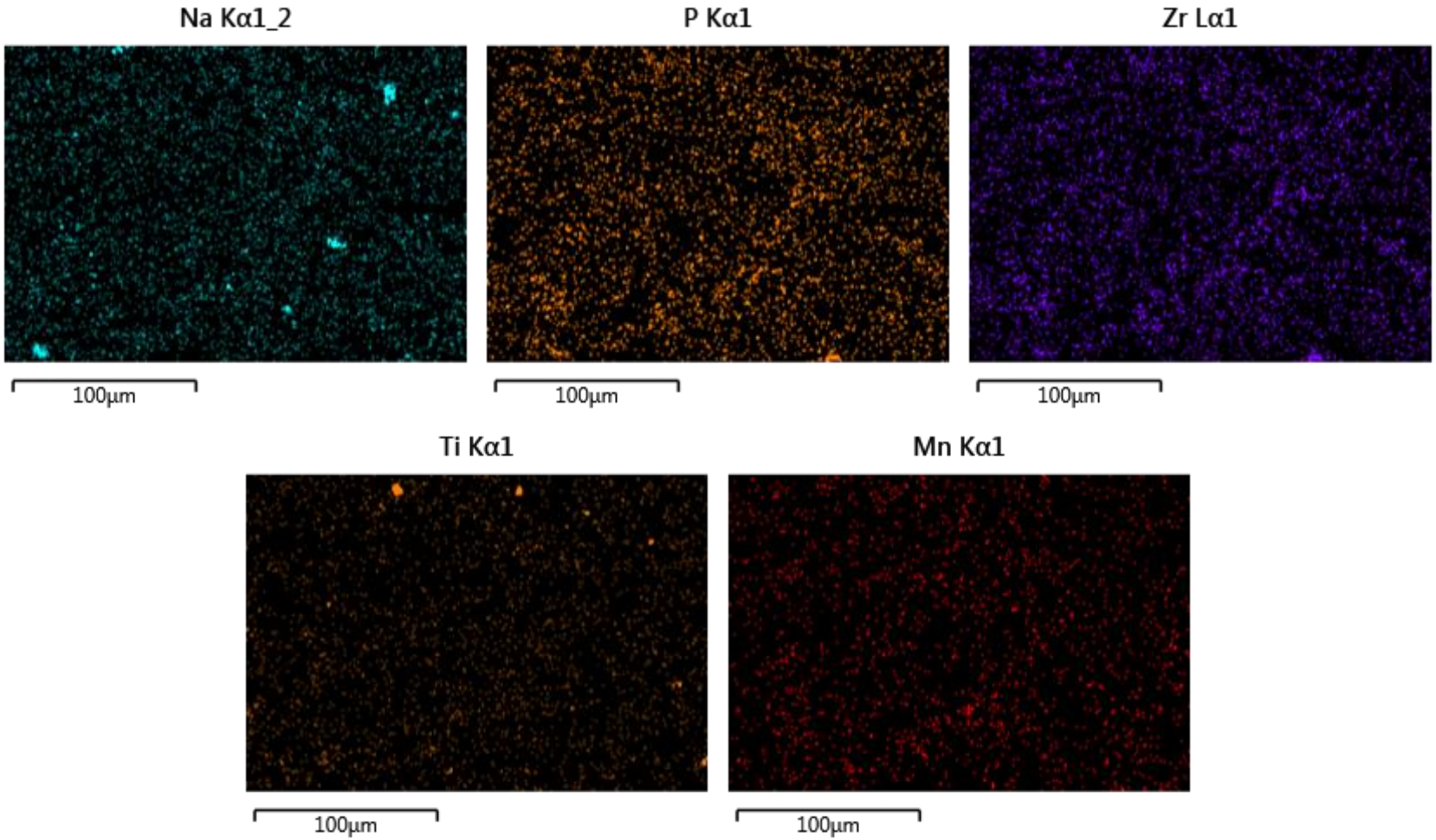

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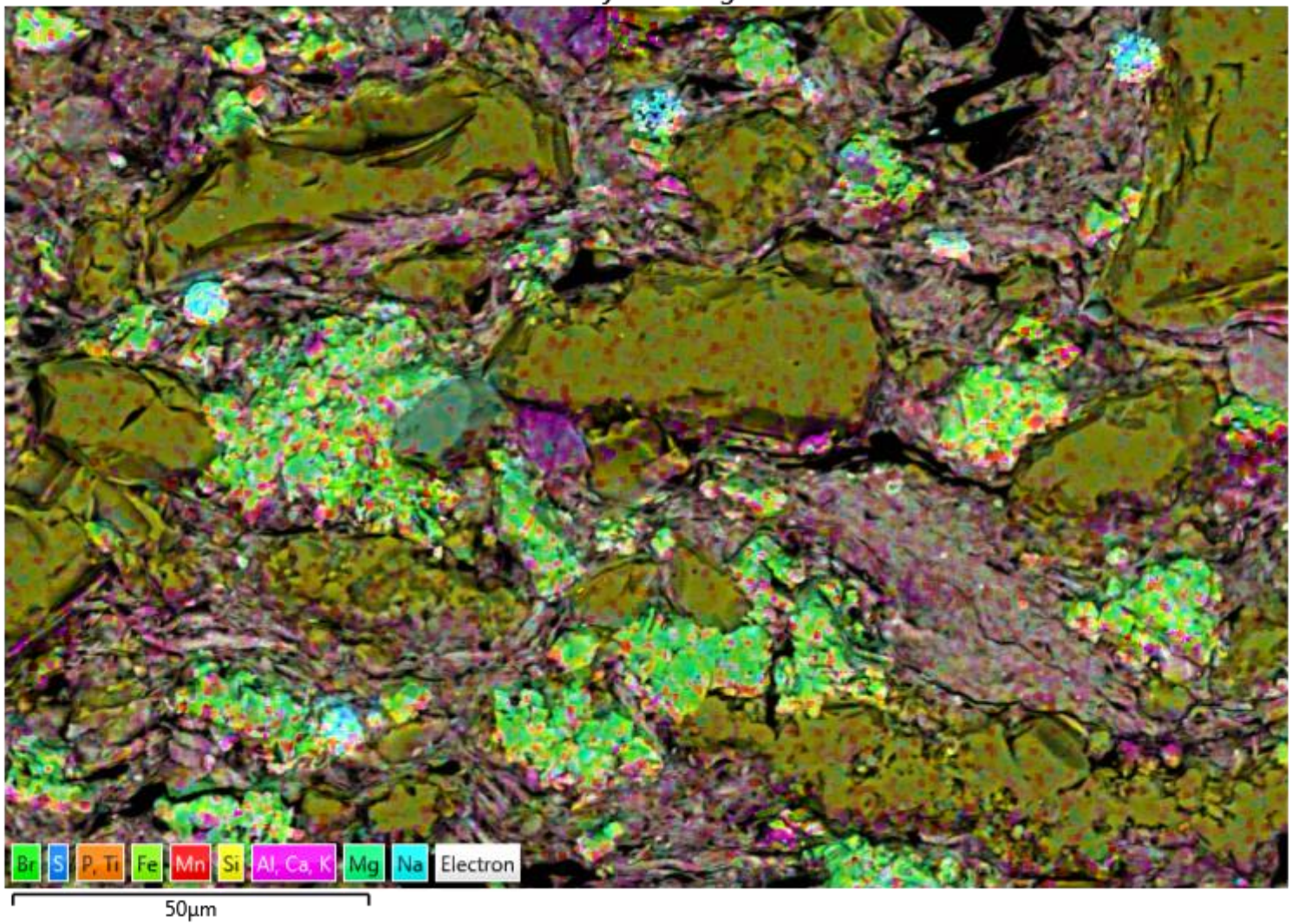

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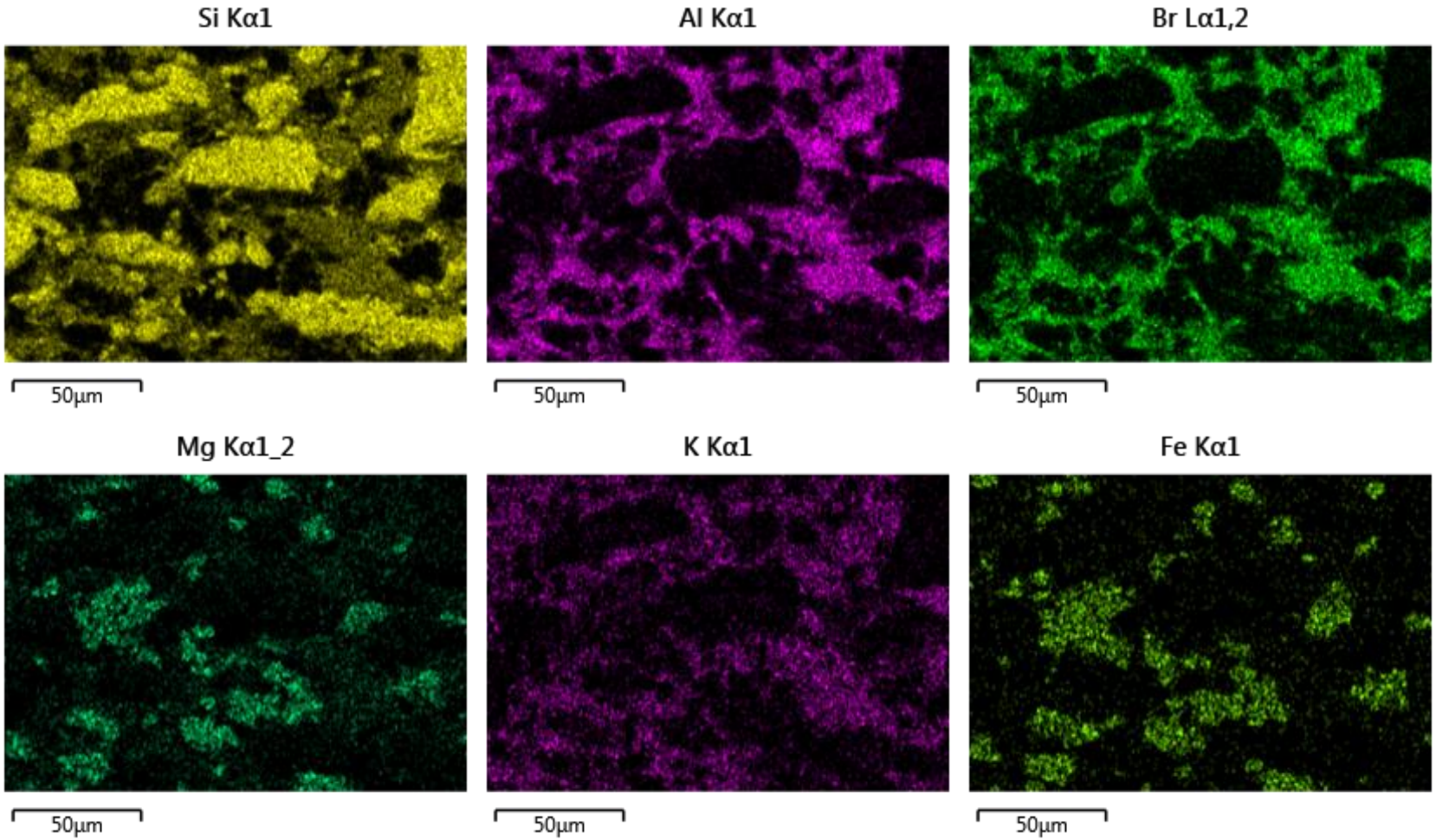

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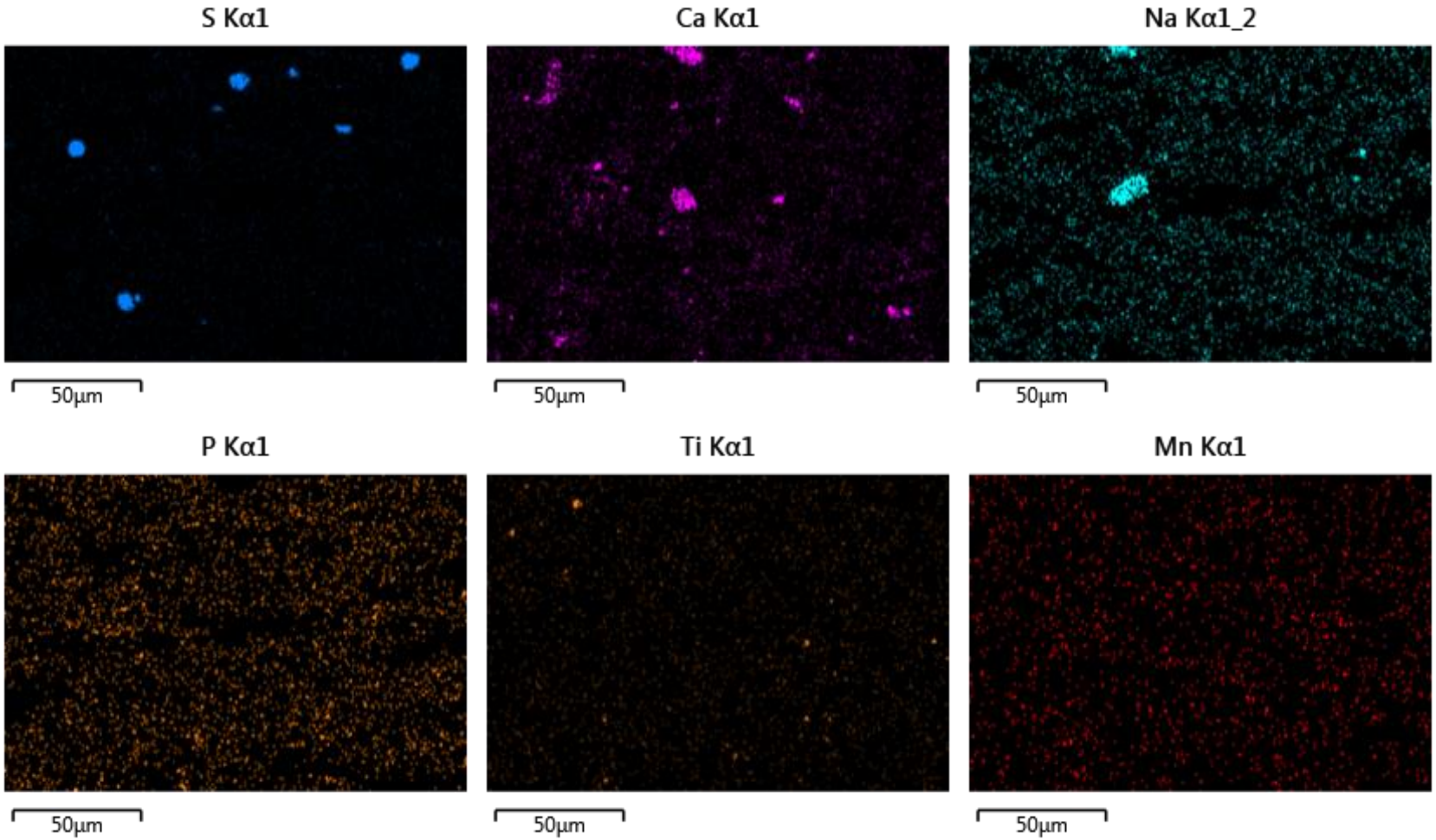

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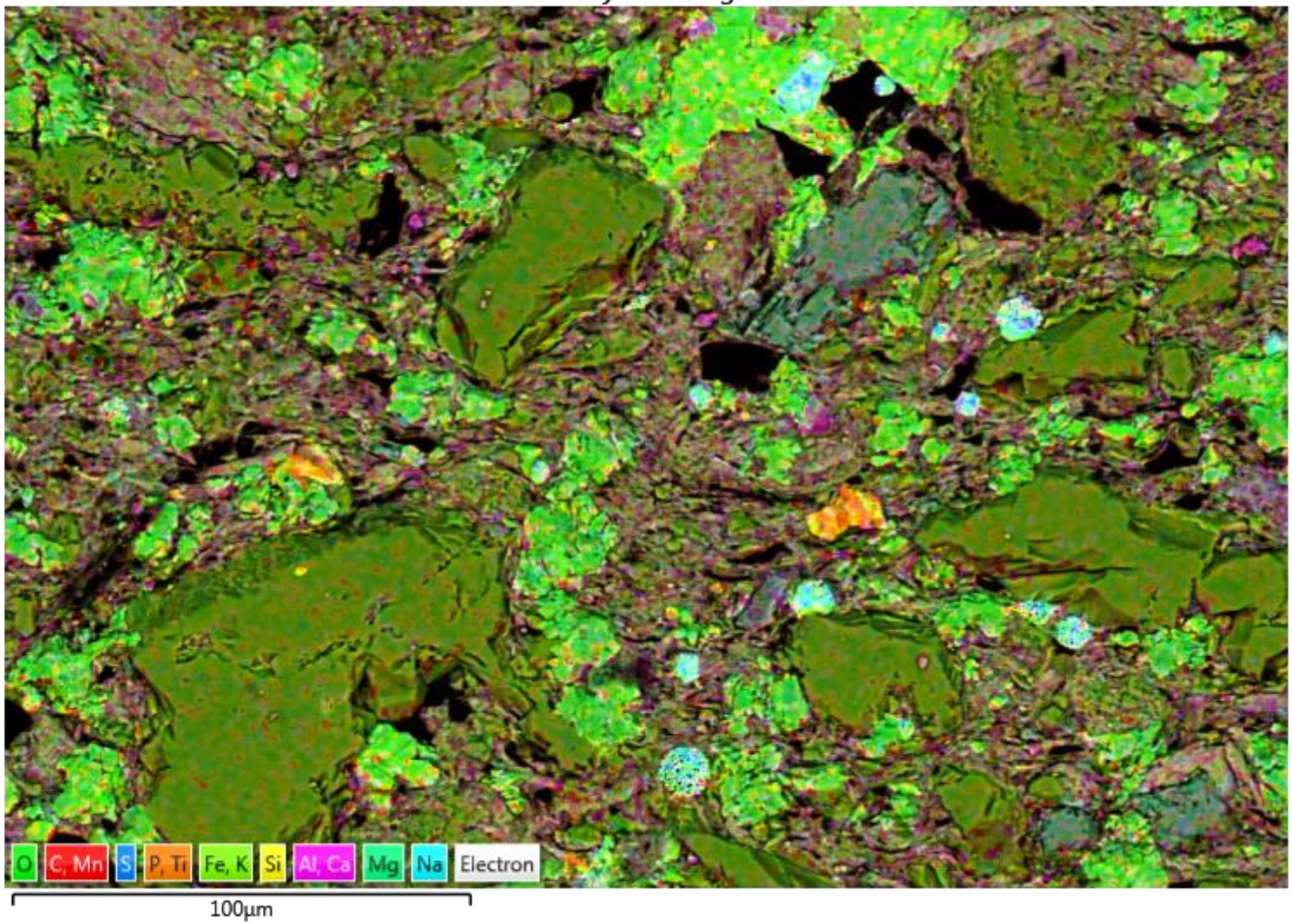

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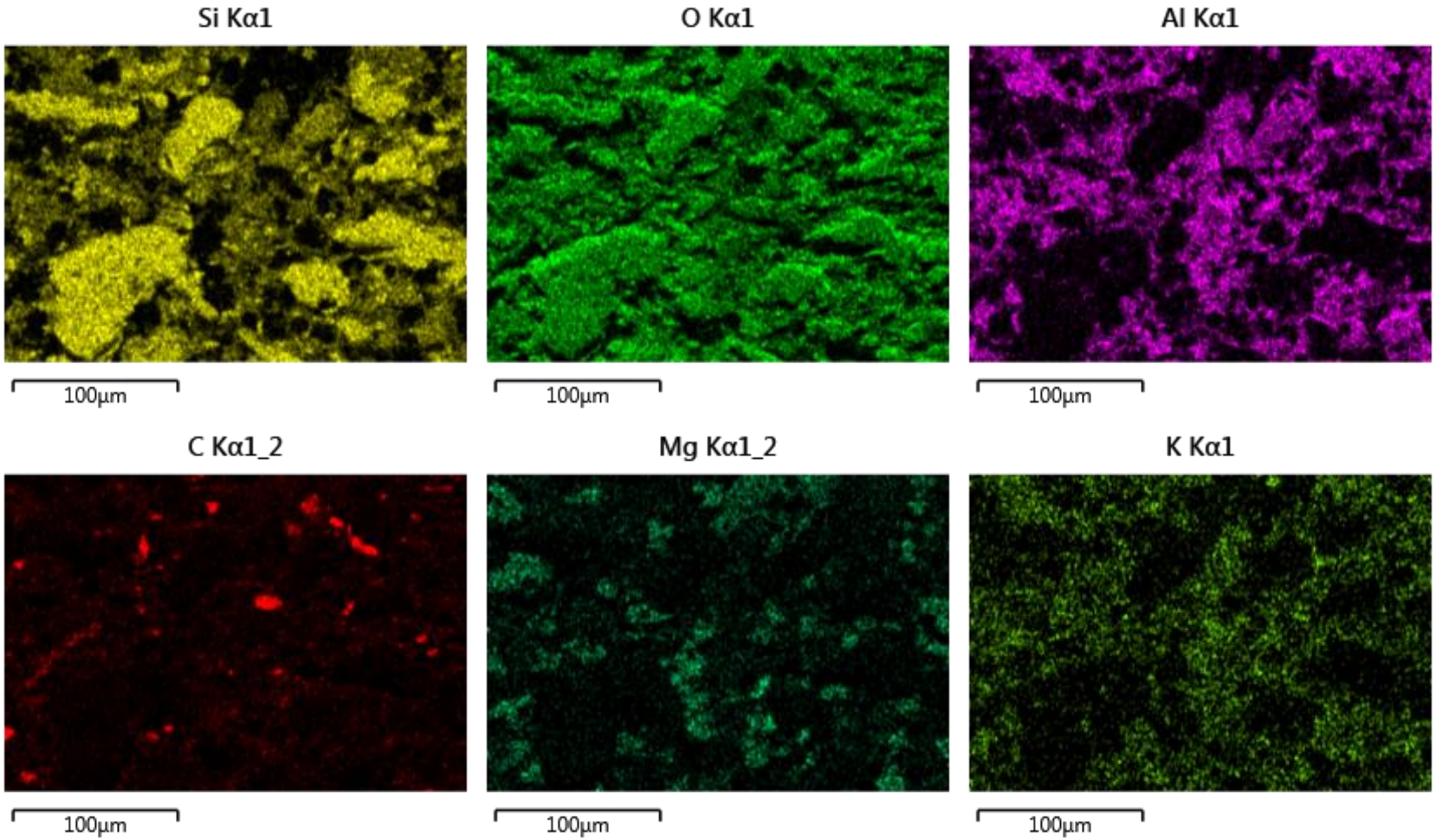

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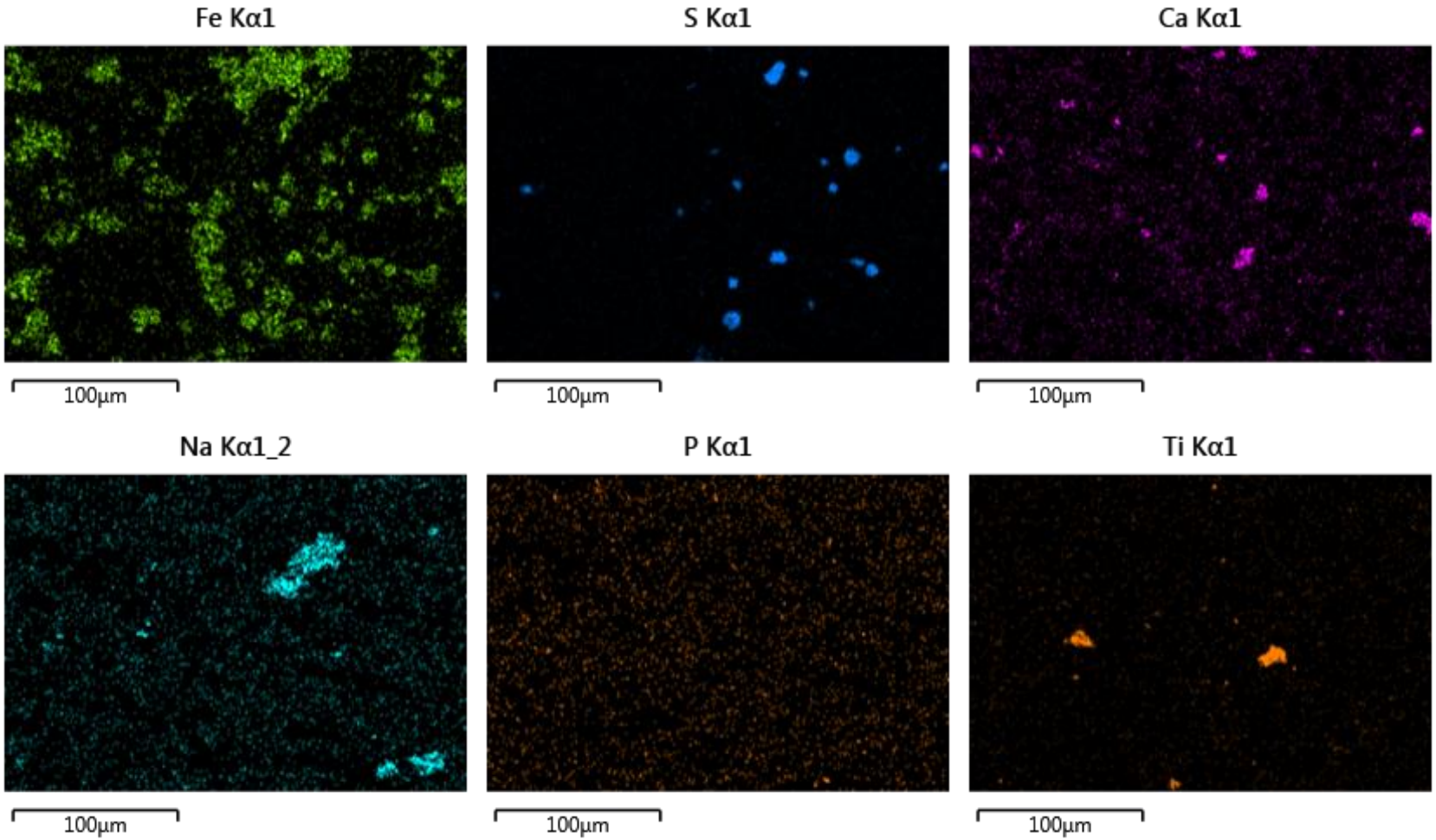

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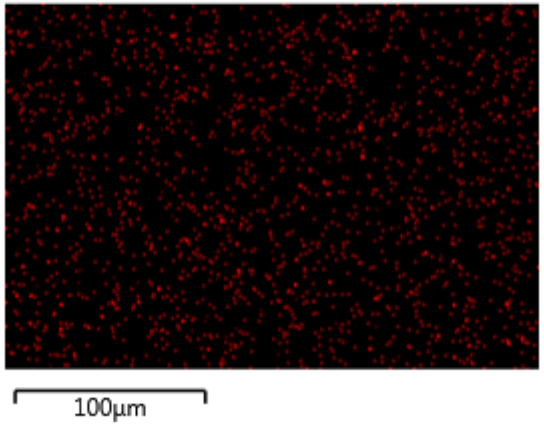
Mn Kα1



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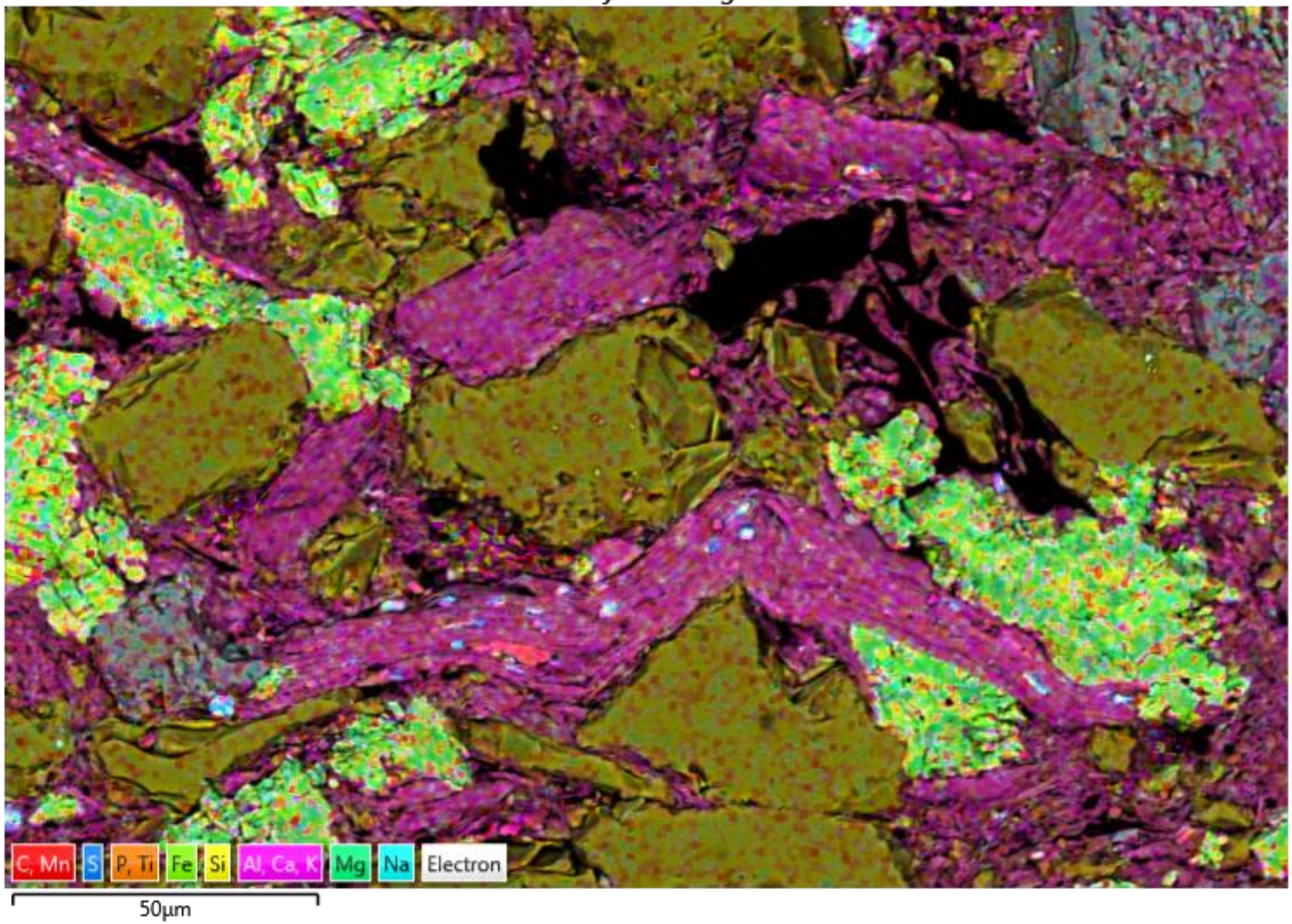

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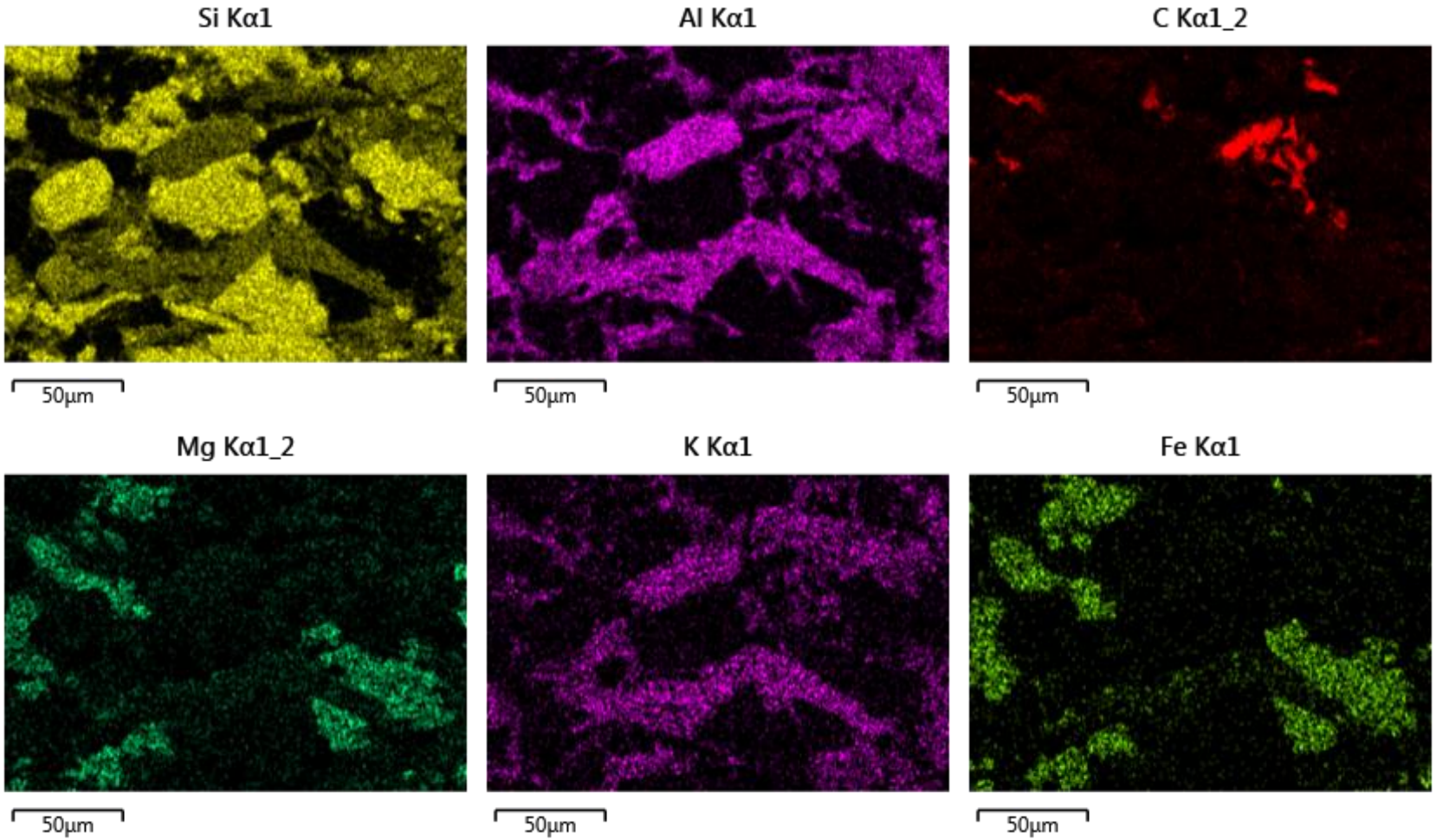

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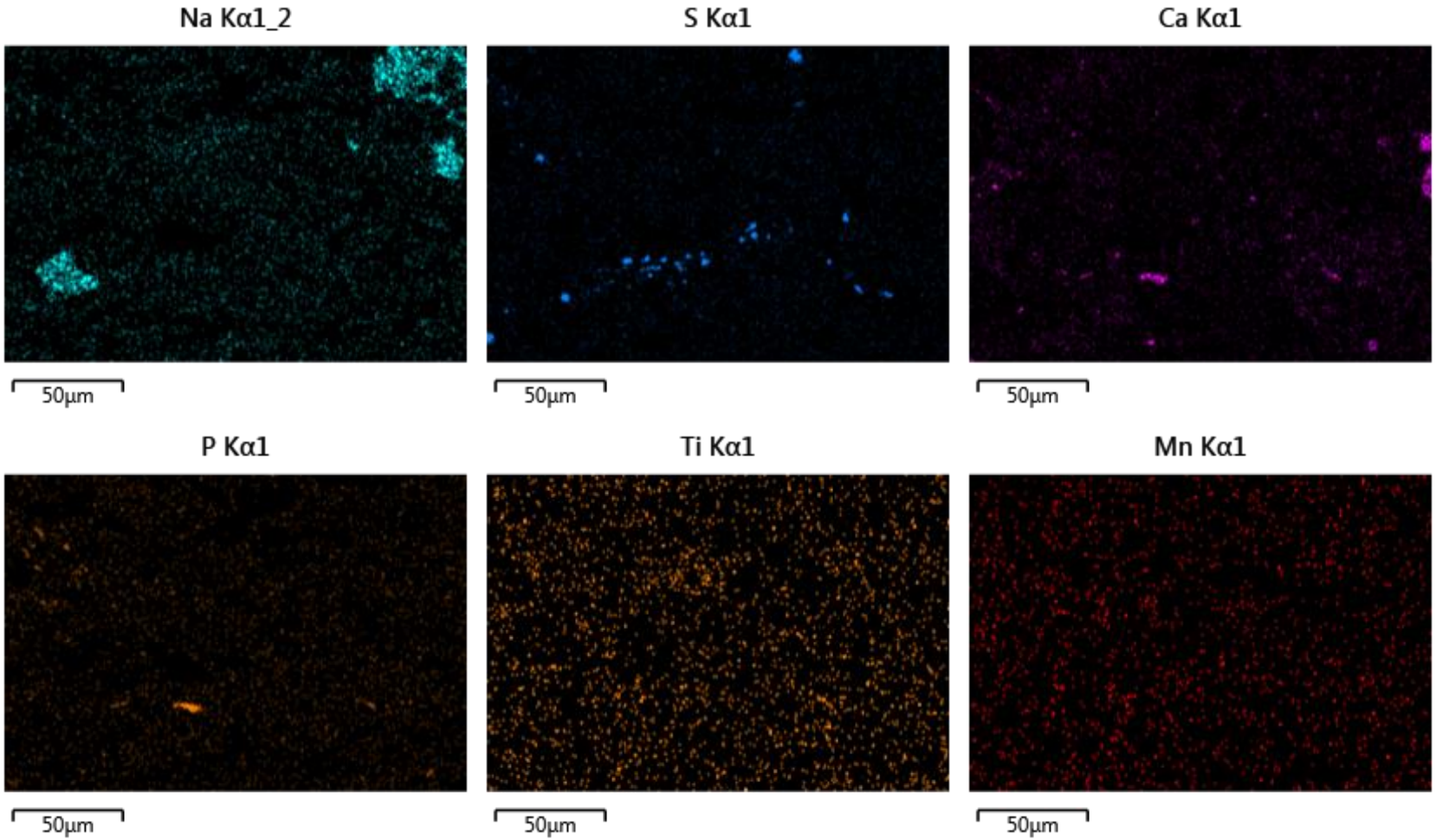

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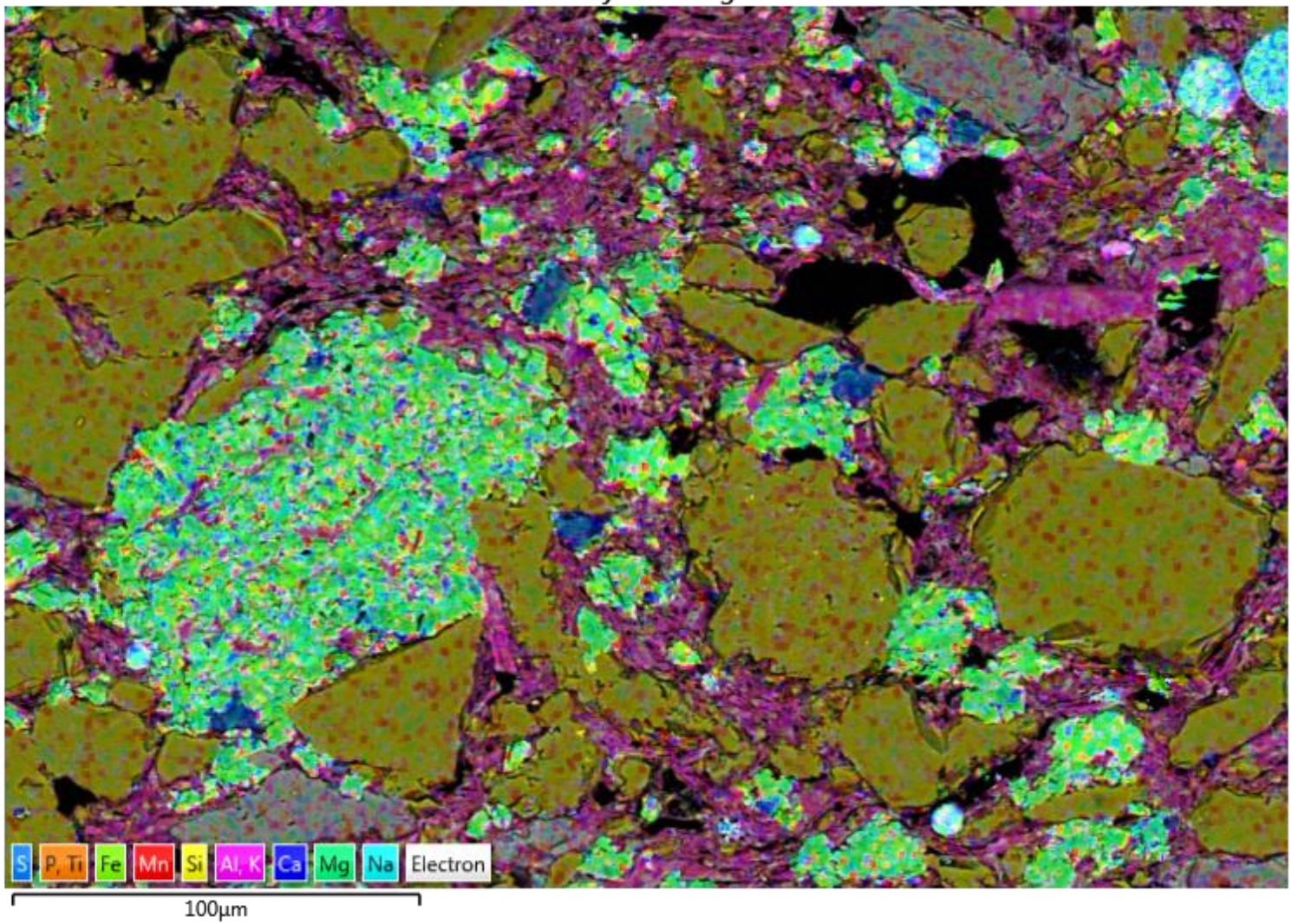

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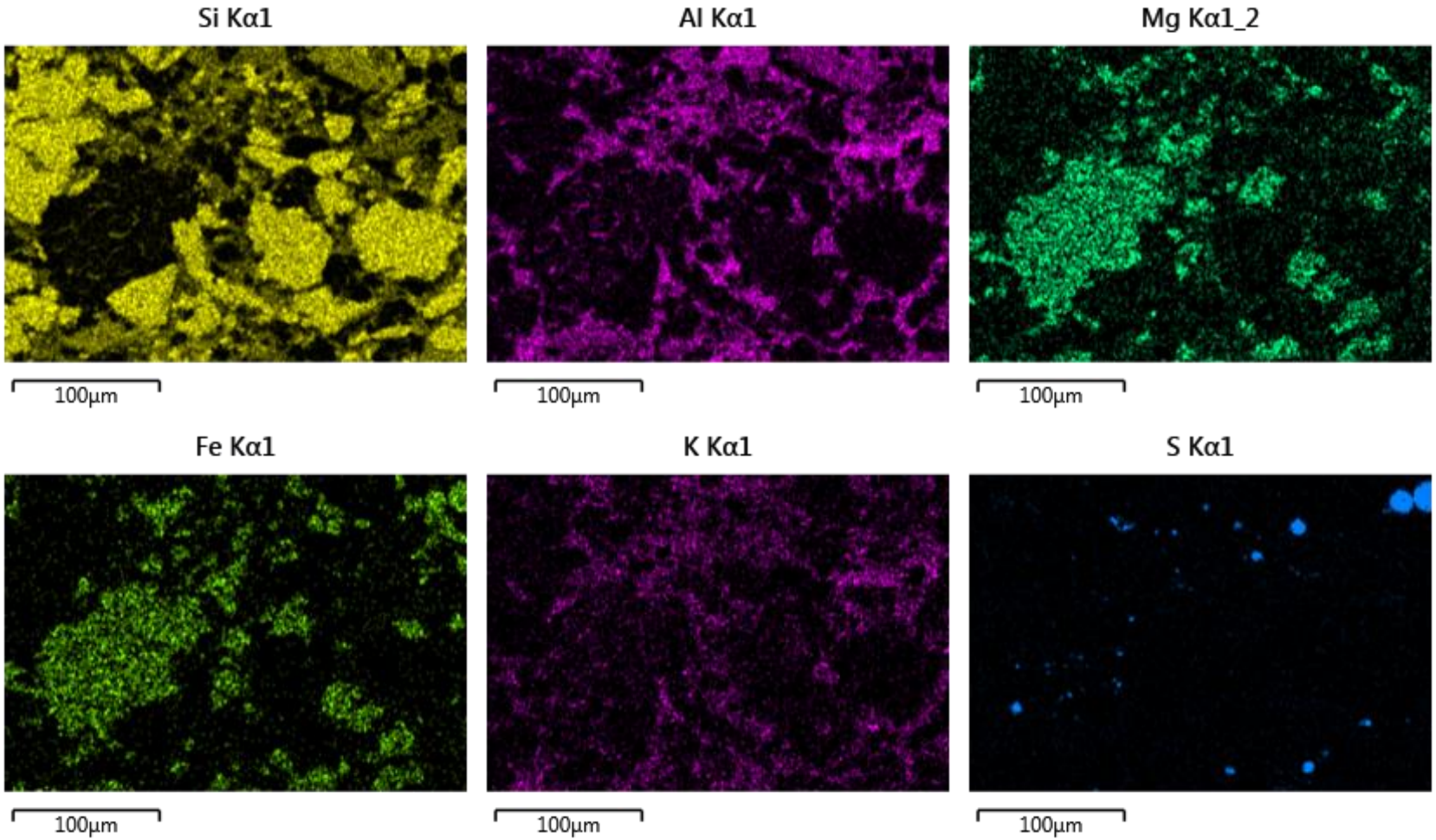

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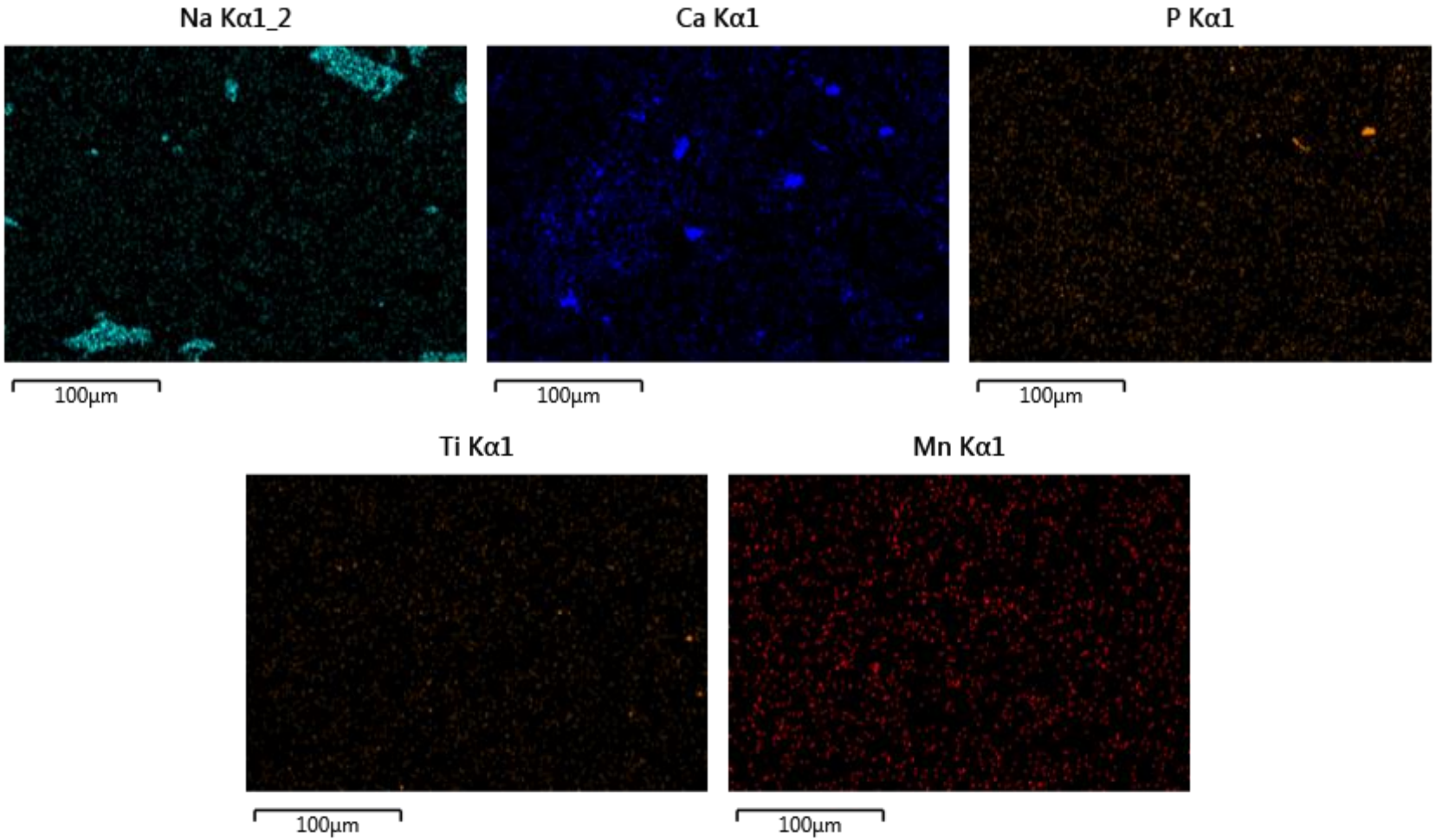
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