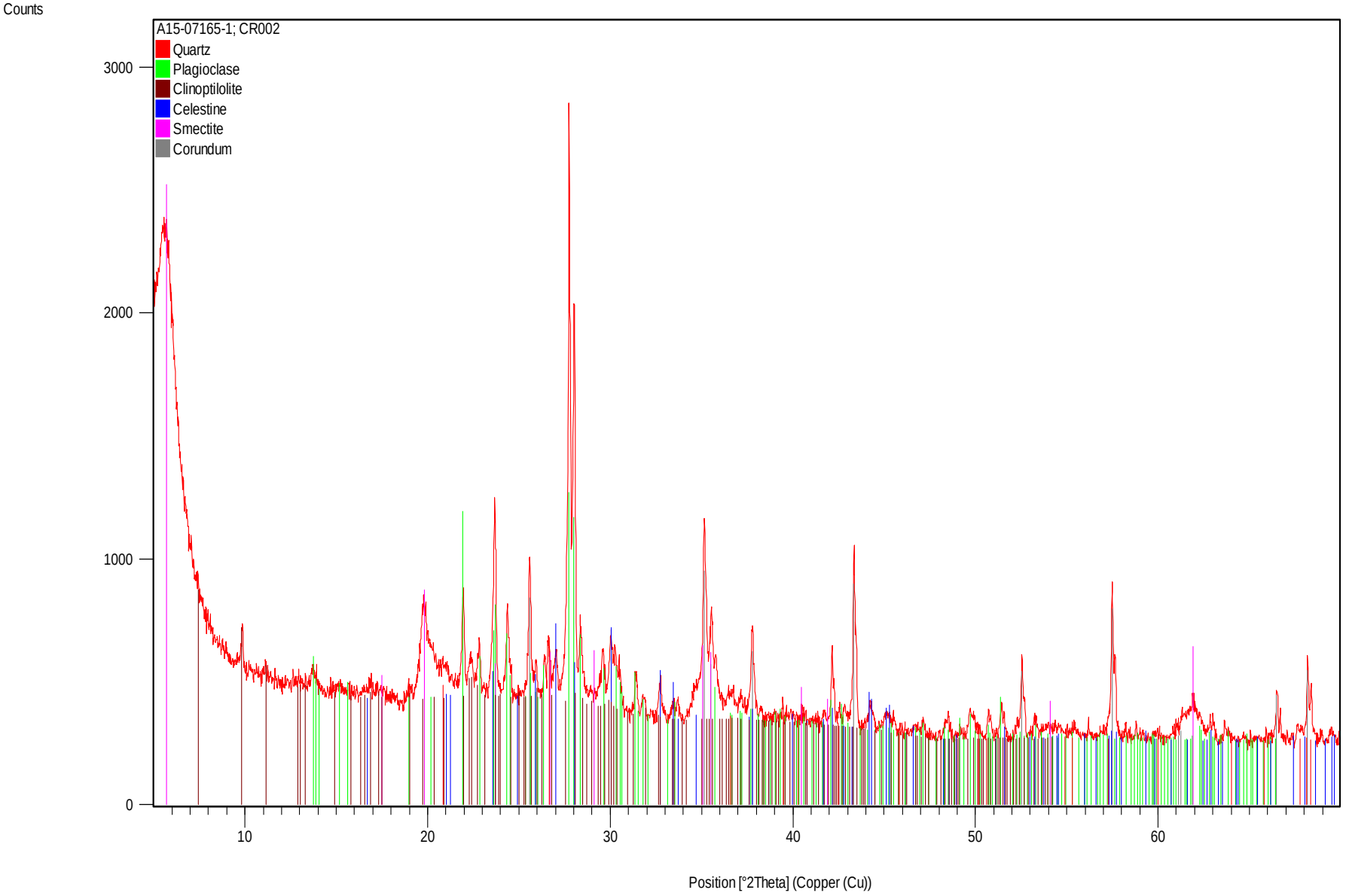
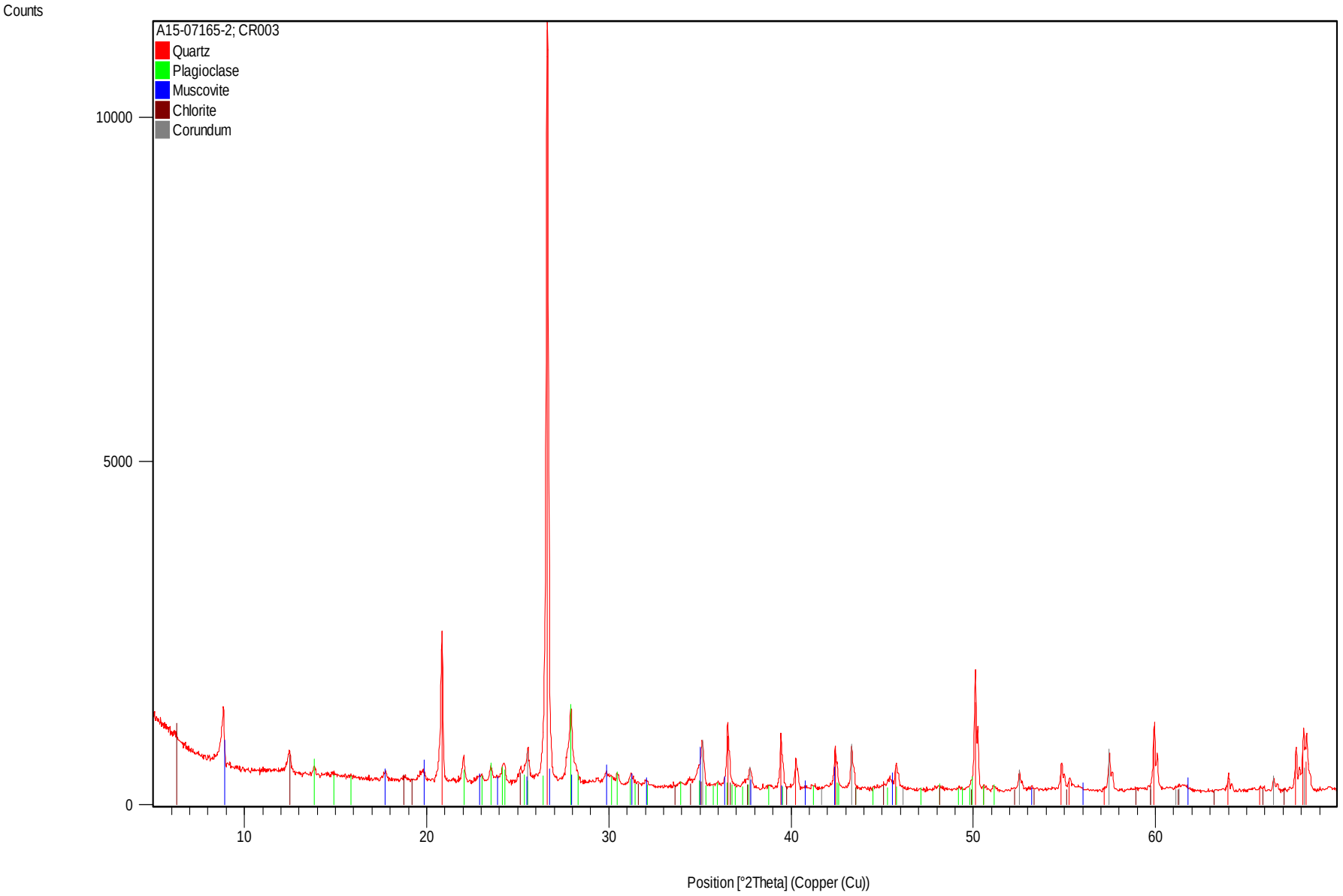
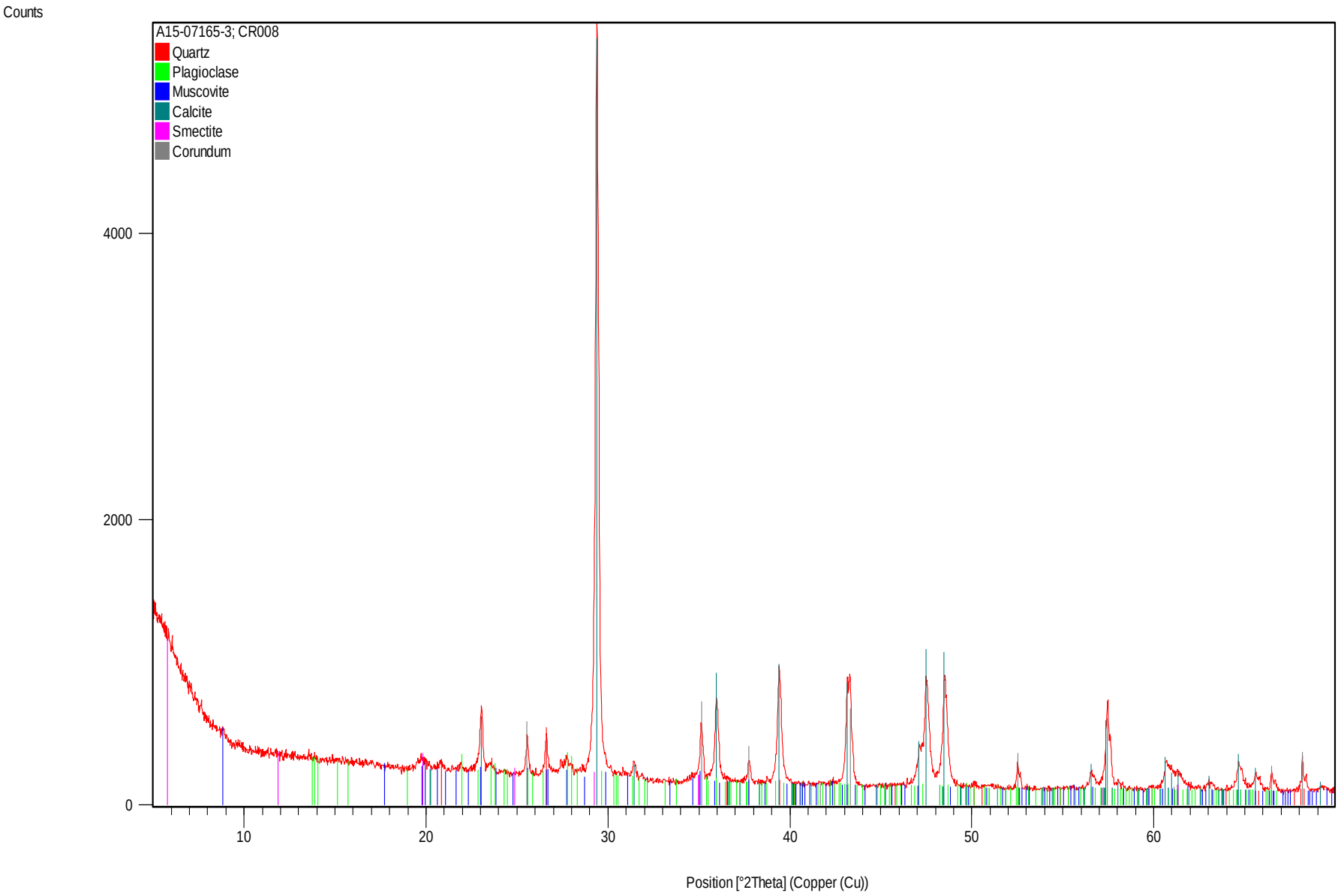
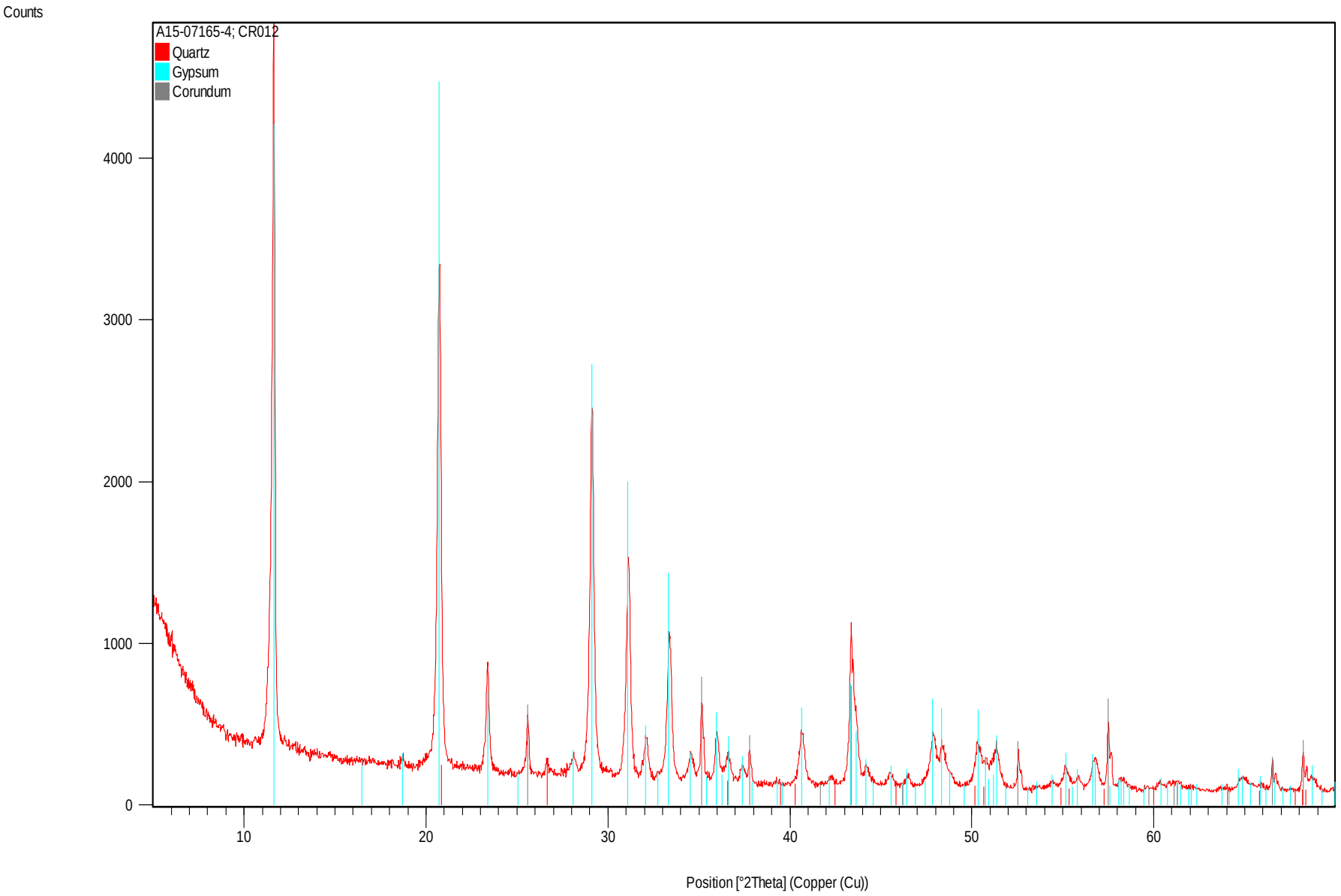
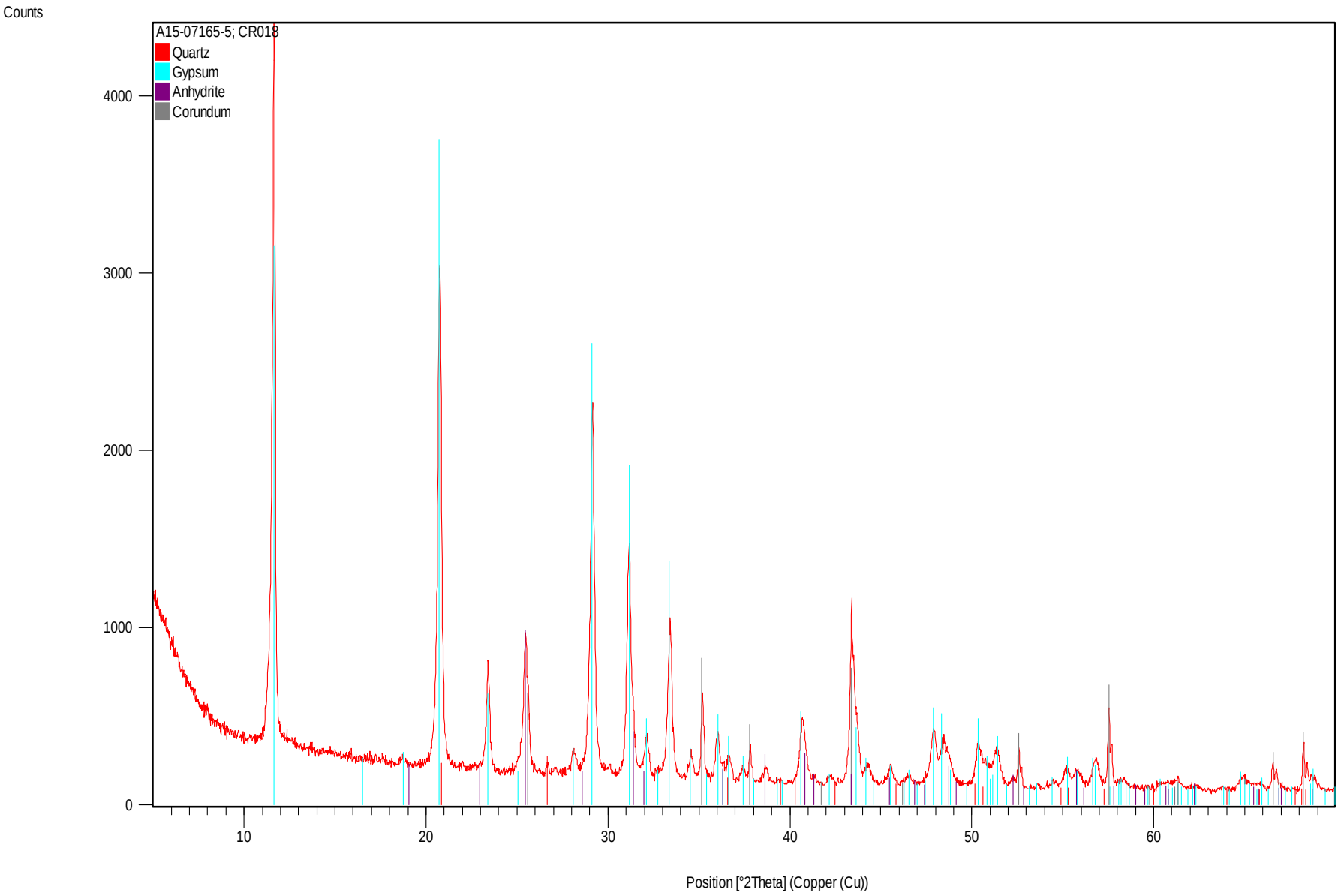
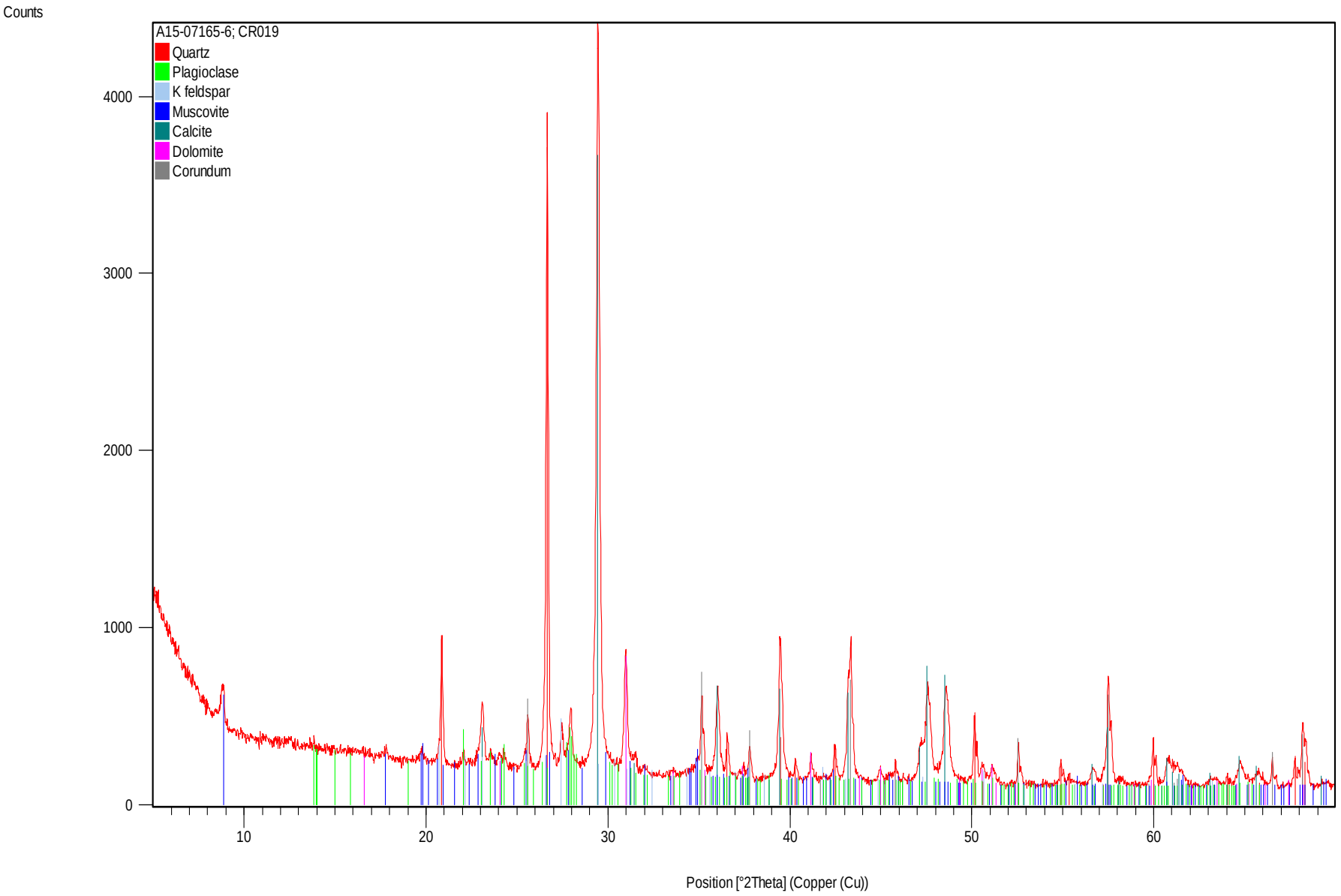

Counts
A15-07165-1; CR002
Quartz
Plagioclase
Clinoptilolite
Celestine
Smectite
Corundum
3000
2000
1000
0
10
20
30
40
50
60
Position [°2Theta] (Copper (Cu))

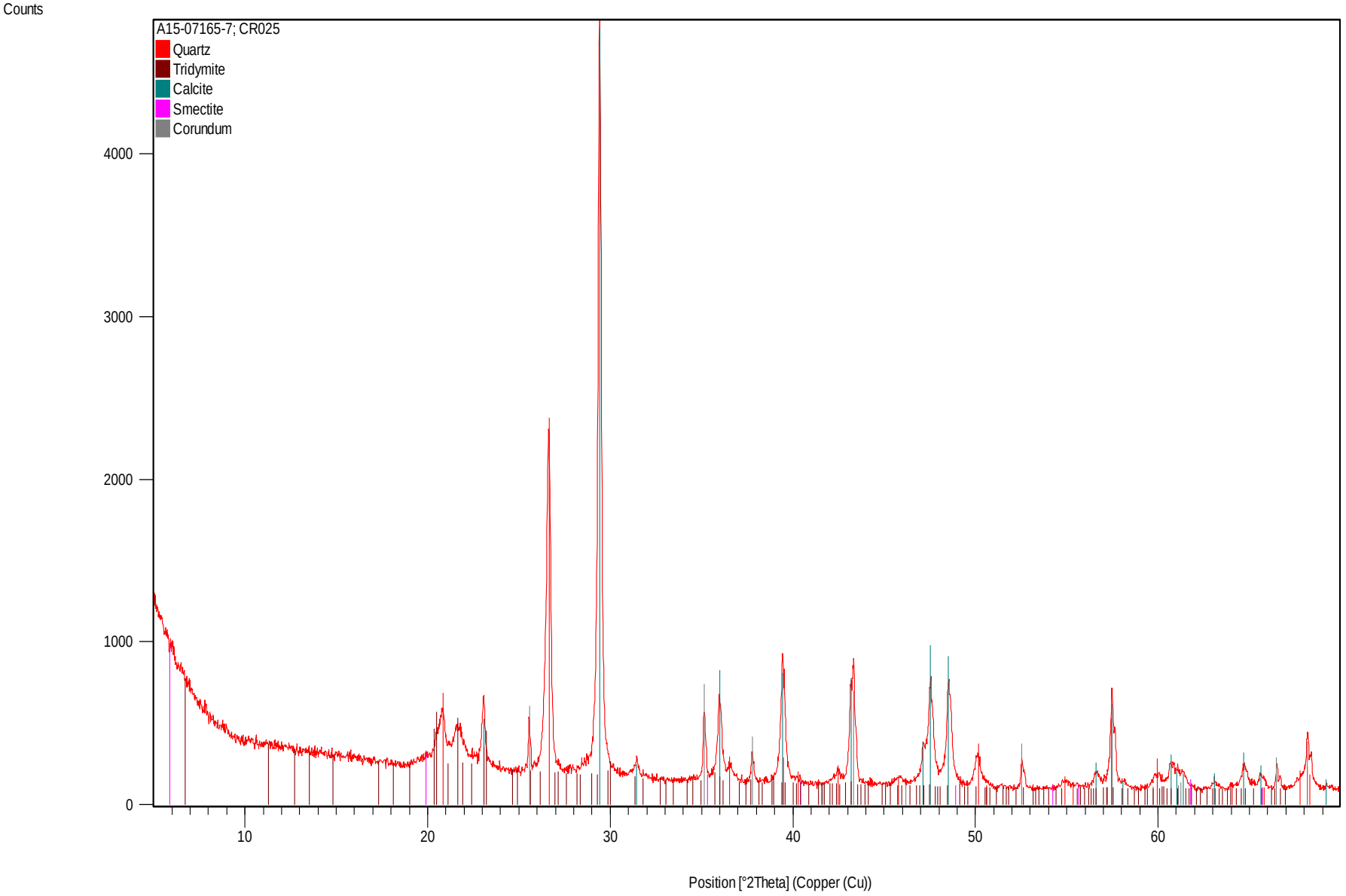

Counts
A15-07165-2; CR003
Quartz
Plagioclase
Muscovite
Chlorite
Corundum
10000
5000
0
10
20
30
40
50
60
Position [°2Theta] (Copper (Cu))

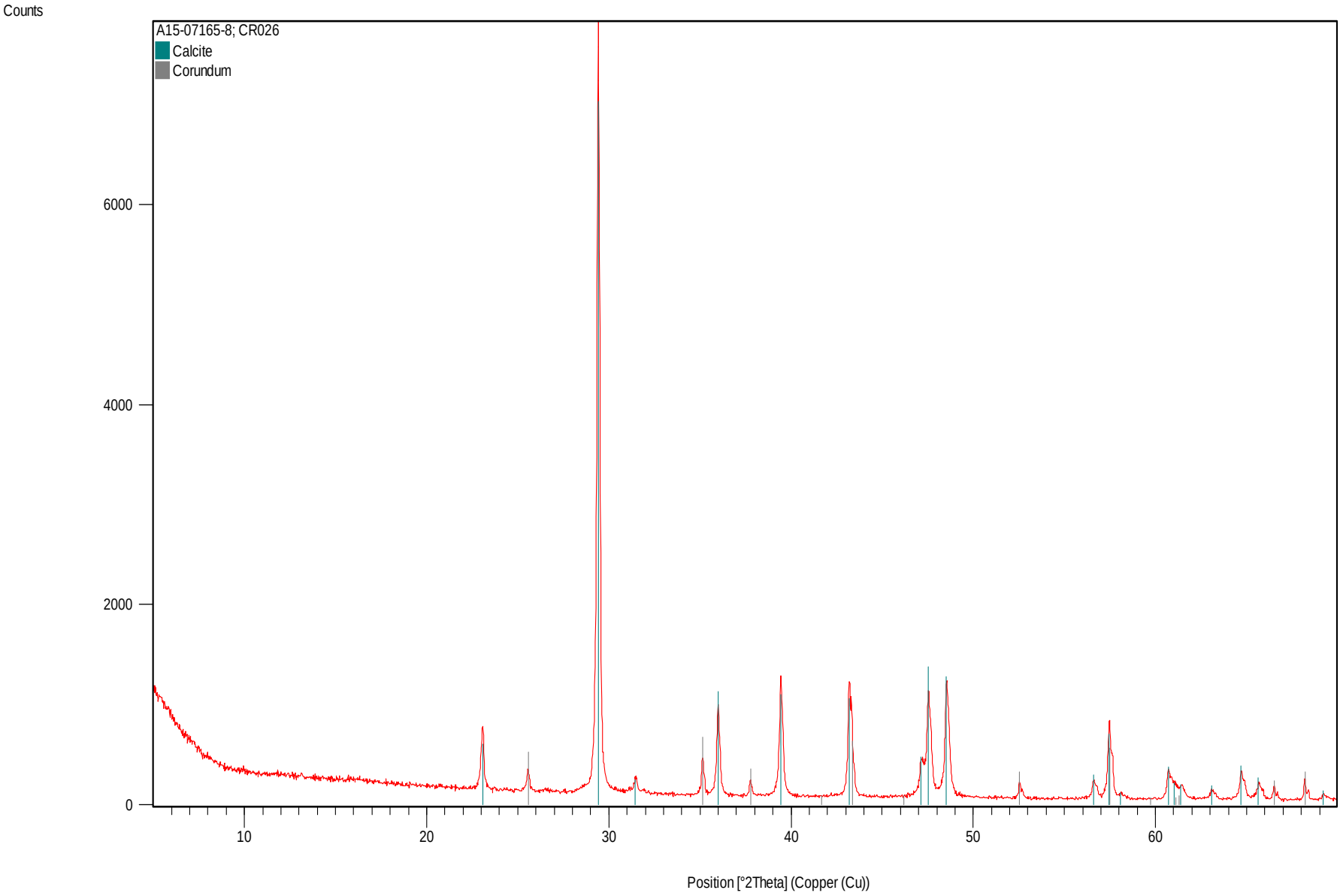

Counts
A15-07165-3; CR008
Quartz
Plagioclase
Muscovite
Calcite
Smectite
Corundum
4000
2000
0
10
20
30
40
50
60
Position [°2Theta] (Copper (Cu))

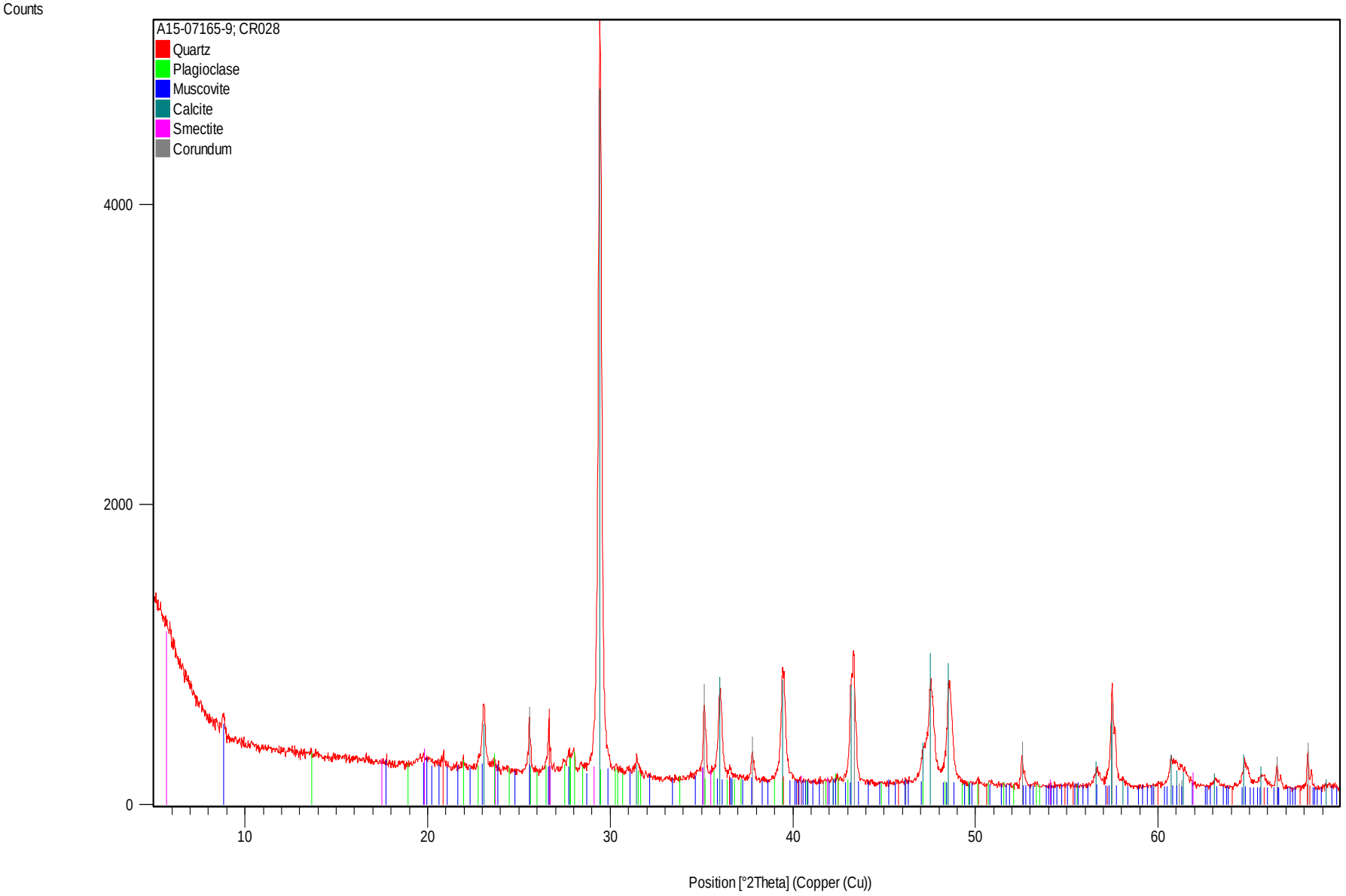

Counts
A15-07165-4; CR012
Quartz
Gypsum
Corundum
4000
3000
2000
1000
0
10
20
30
40
50
60
Position [°2Theta] (Copper (Cu))

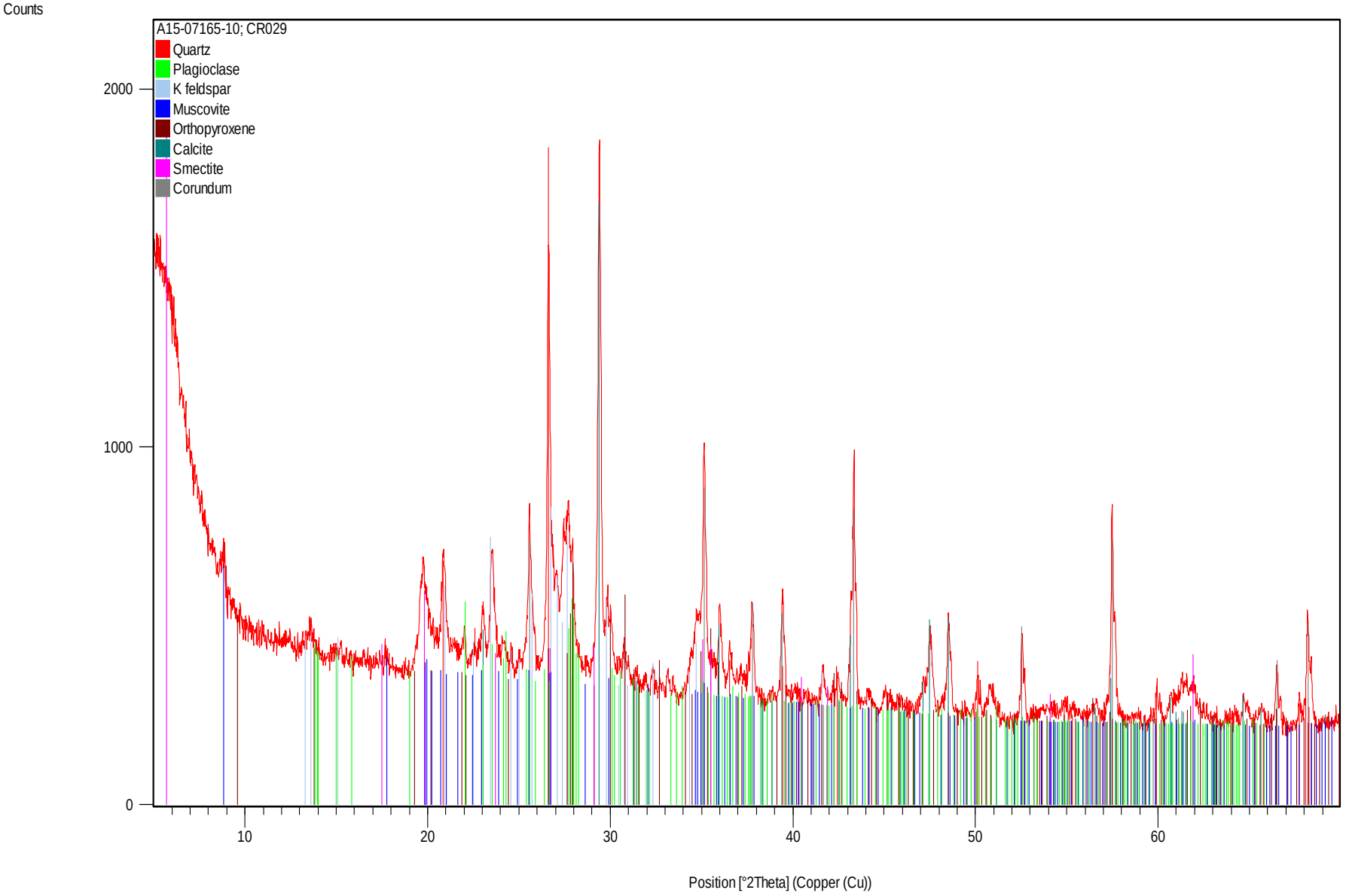

Counts
A15-07165-5; CR018
Quartz
Gypsum
Anhydrite
Corundum
4000
3000
2000
1000
0
10
20
30
40
50
60
Position [°2Theta] (Copper (Cu))

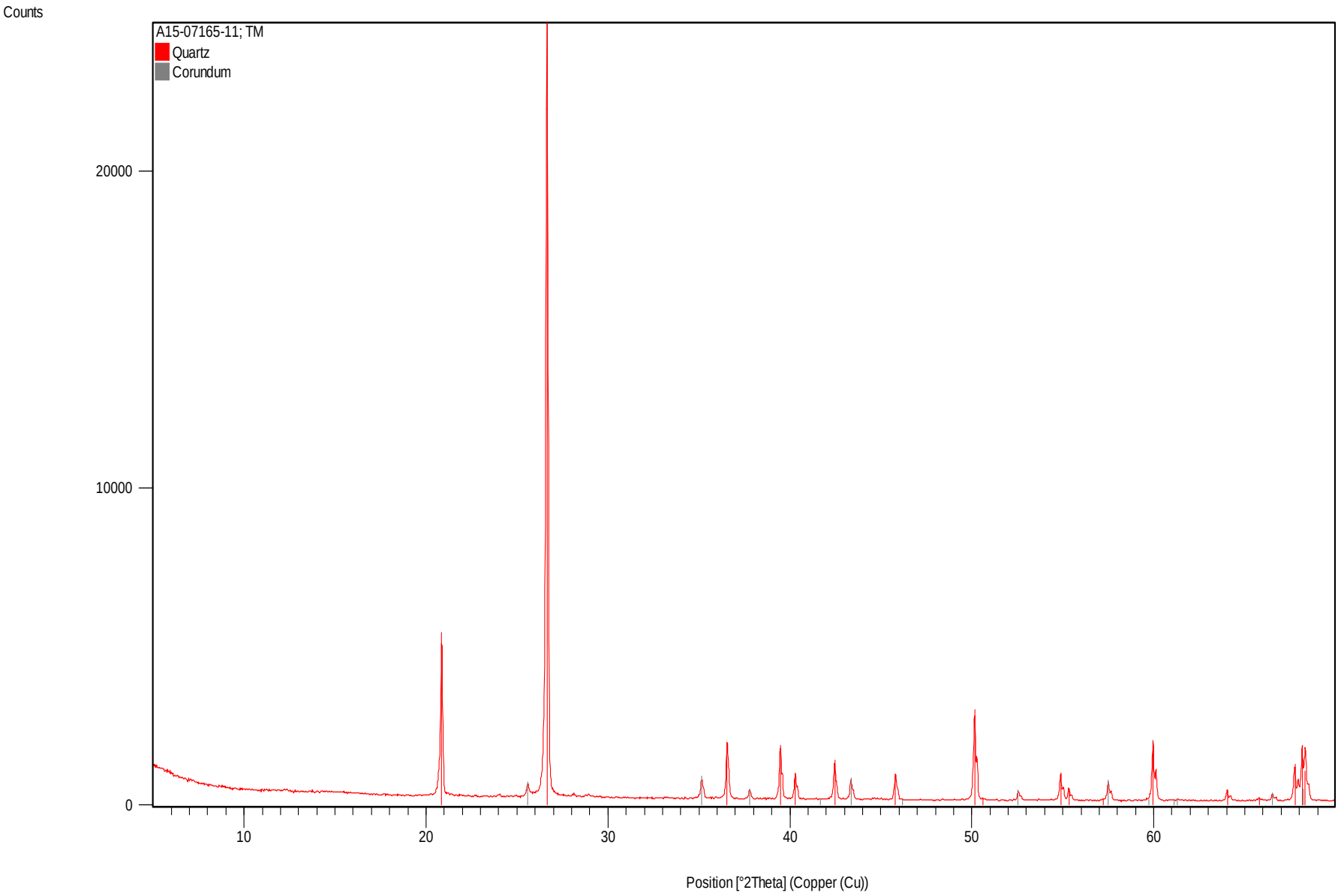

Counts
A15-07165-6; CR019
Quartz
Plagioclase
K feldspar
Muscovite
Calcite
Dolomite
Corundum
4000
3000
2000
1000
0
10
20
30
40
50
60
Position [°2Theta] (Copper (Cu))

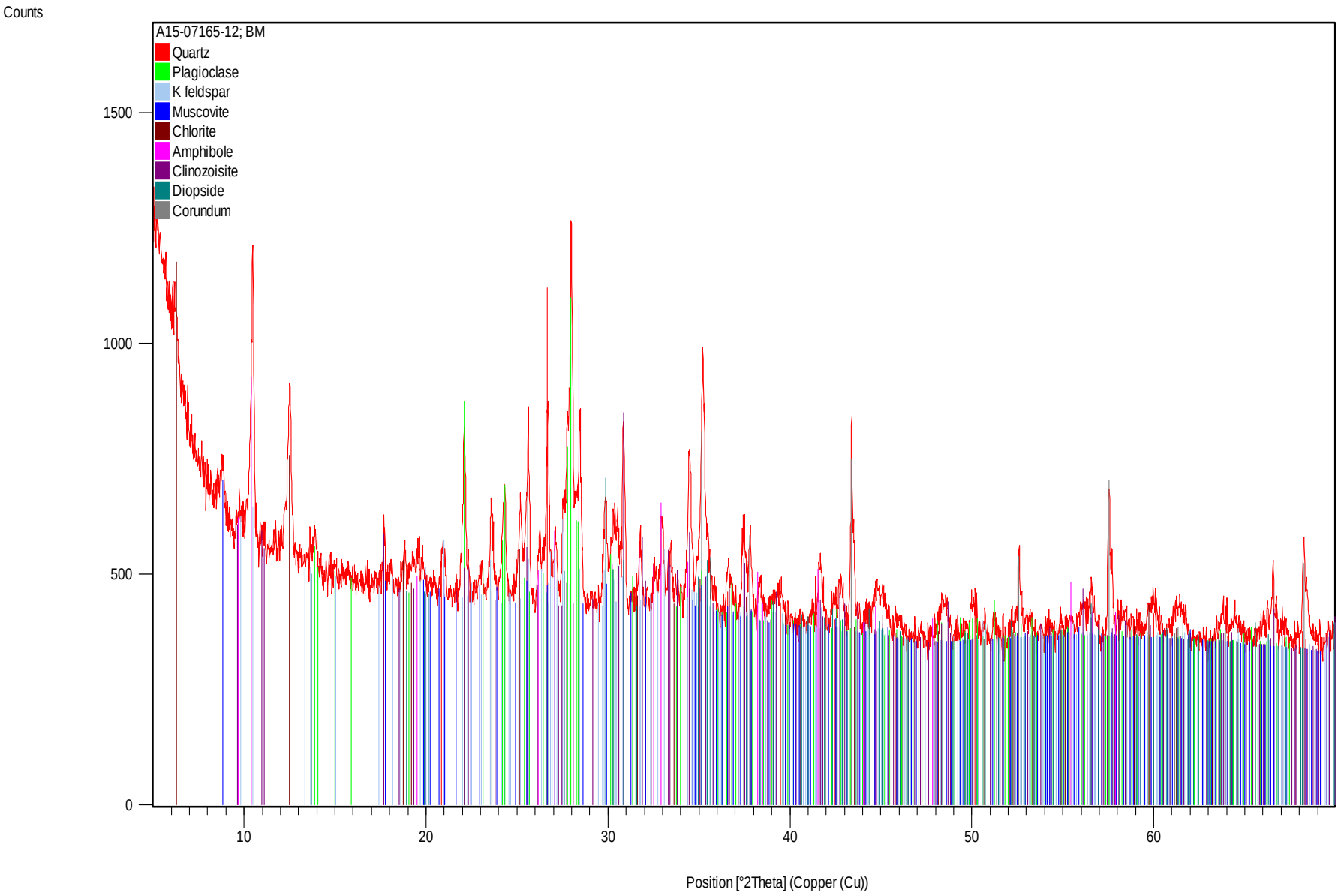

Counts
A15-07165-7; CR025
Quartz
Tridymite
Calcite
Smectite
Corundum
4000
3000
2000
1000
0
10
20
30
40
50
60
Position [°2Theta] (Copper (Cu))


Counts
A15-07165-8; CR026
Calcite
Corundum
6000
4000
2000
0
10
20
30
40
50
60
Position [°2Theta] (Copper (Cu))


Counts
A15-07165-9; CR028
Quartz
Plagioclase
Muscovite
Calcite
Smectite
Corundum
4000
2000
0
10
20
30
40
50
60
Position [°2Theta] (Copper (Cu))

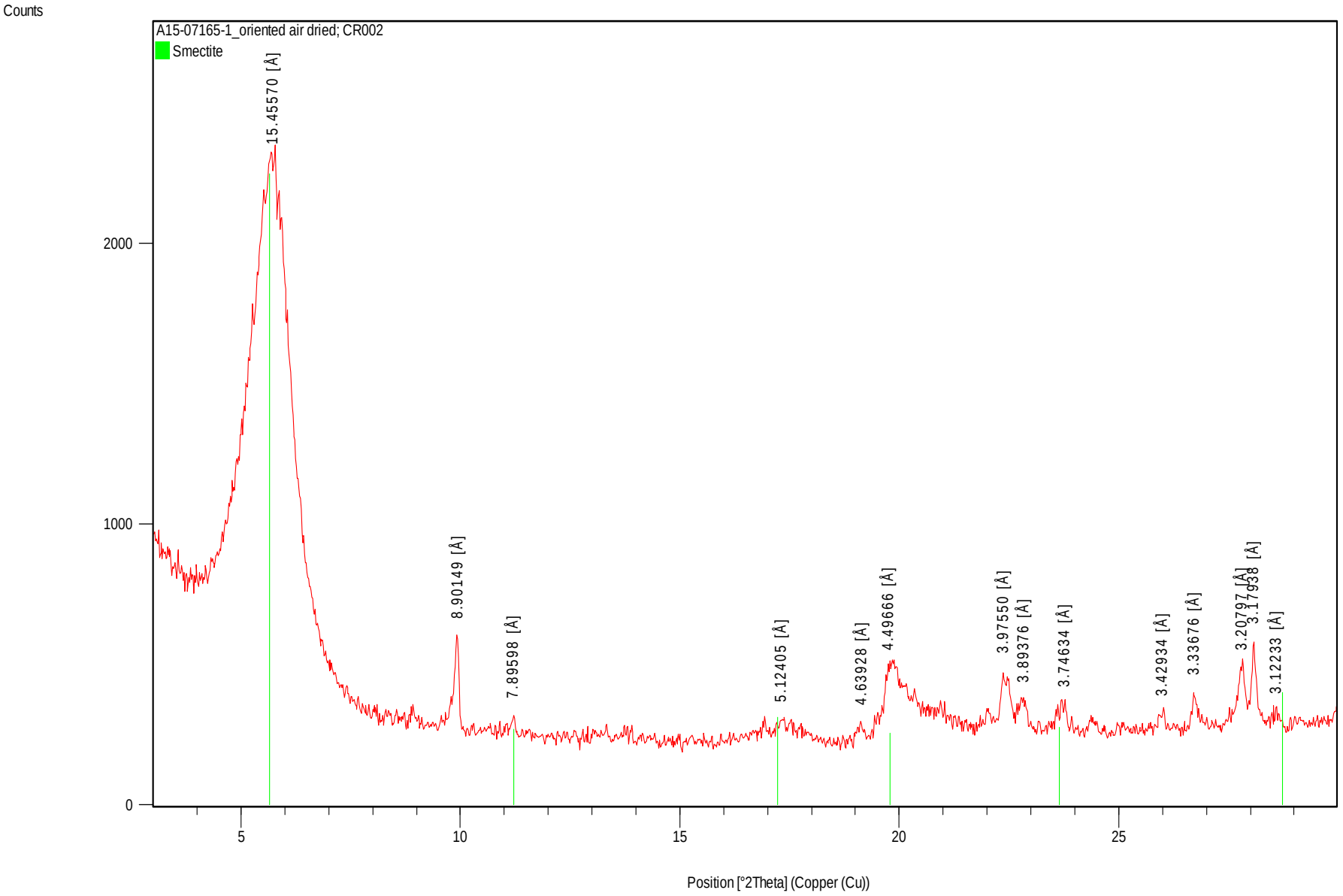

Counts
A15-07165-10; CR029
Quartz
Plagioclase
K feldspar
Muscovite
Orthopyroxene
Calcite
Smectite
Corundum
2000
1000
0
10
20
30
40
50
60
Position [°2Theta] (Copper (Cu))

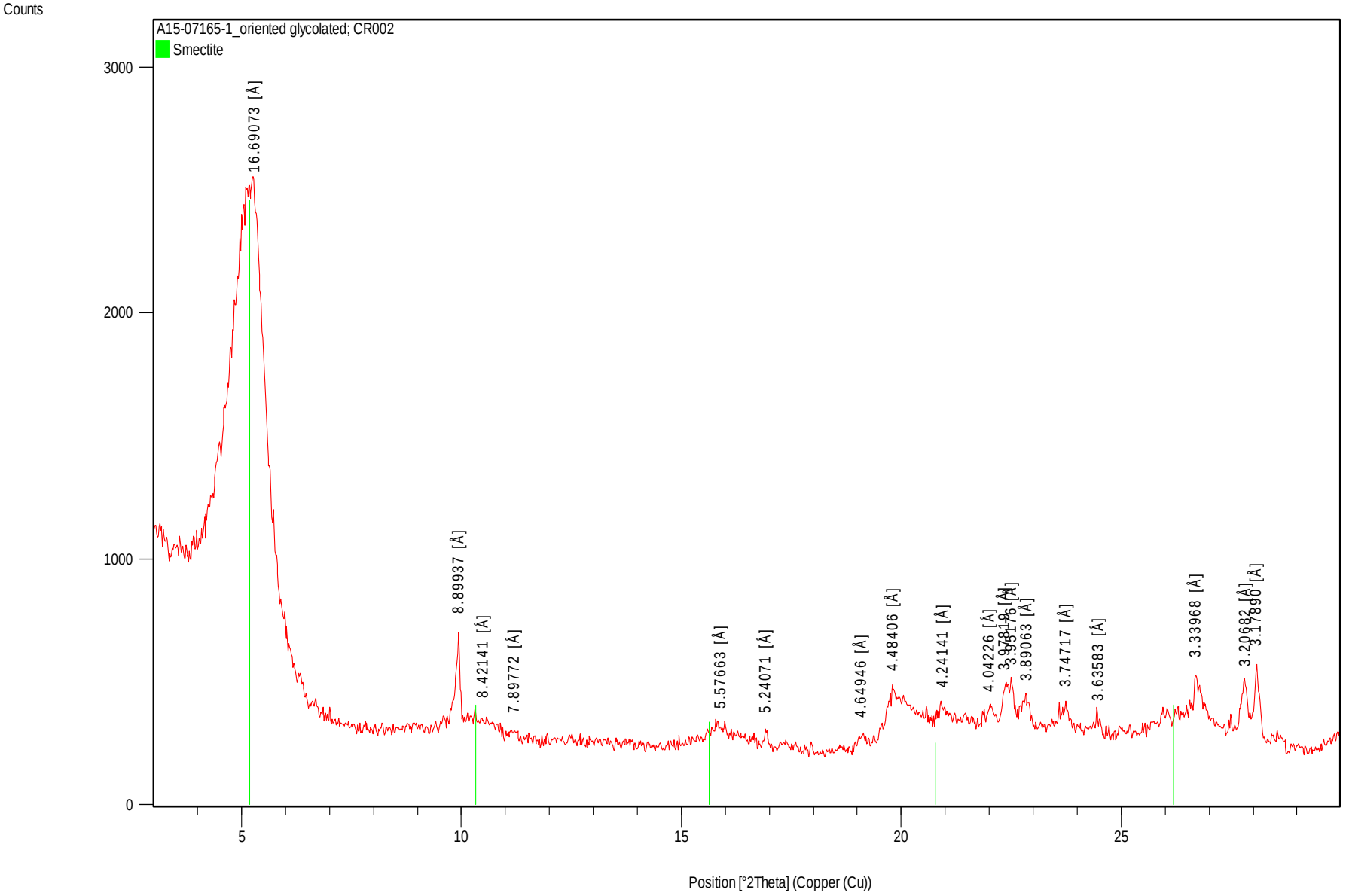

Counts
A15-07165-11; TM
Quartz
Corundum
20000
10000
0
10
20
30
40
50
60
Position [°2Theta] (Copper (Cu))

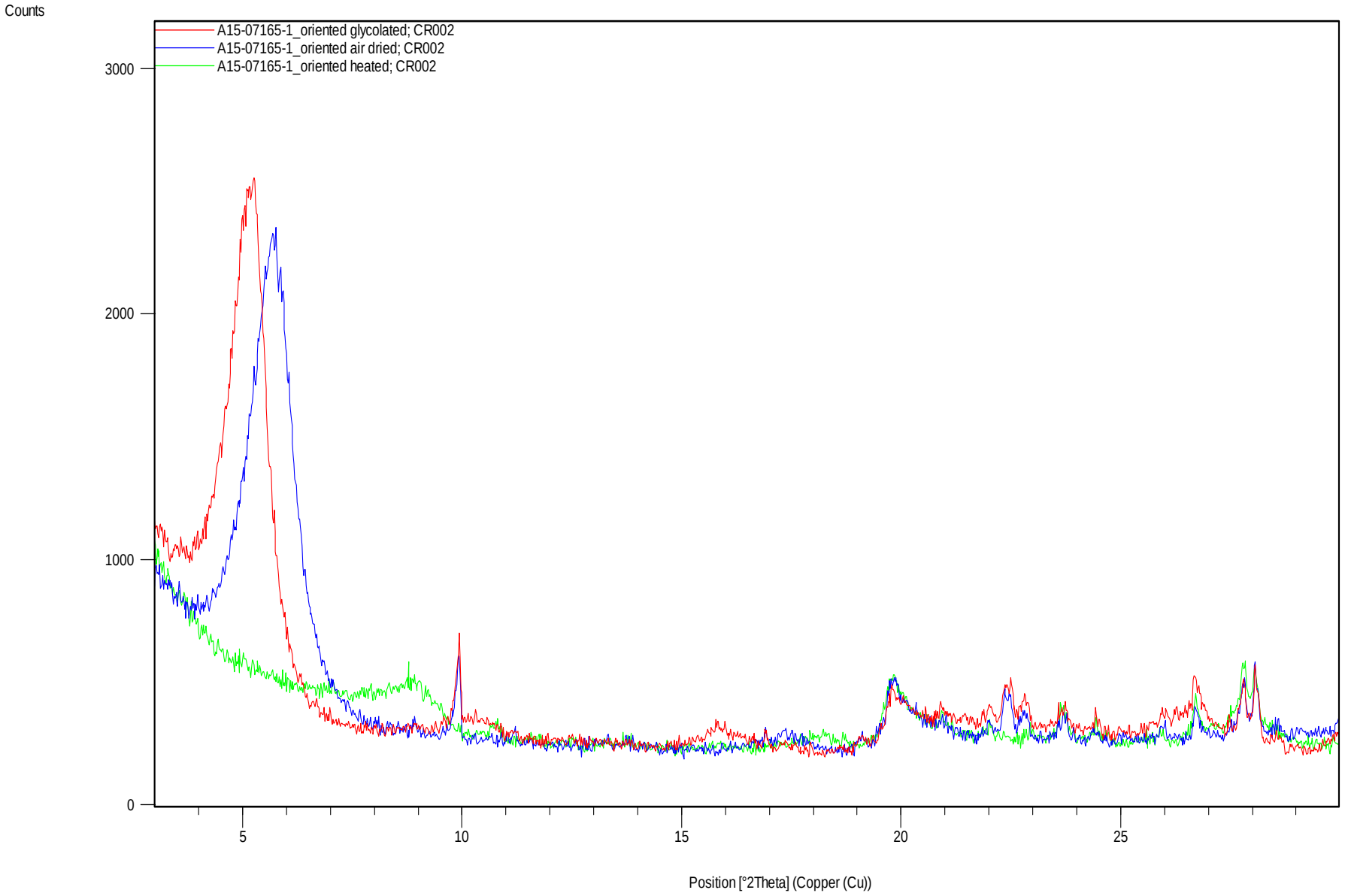

Counts
A15-07165-12; BM
Quartz
Plagioclase
K feldspar
Muscovite
Chlorite
Amphibole
Clinozoisite
Diopside
Corundum
1500
1000
500
0
10
20
30
40
50
60
Position [°2Theta] (Copper (Cu))

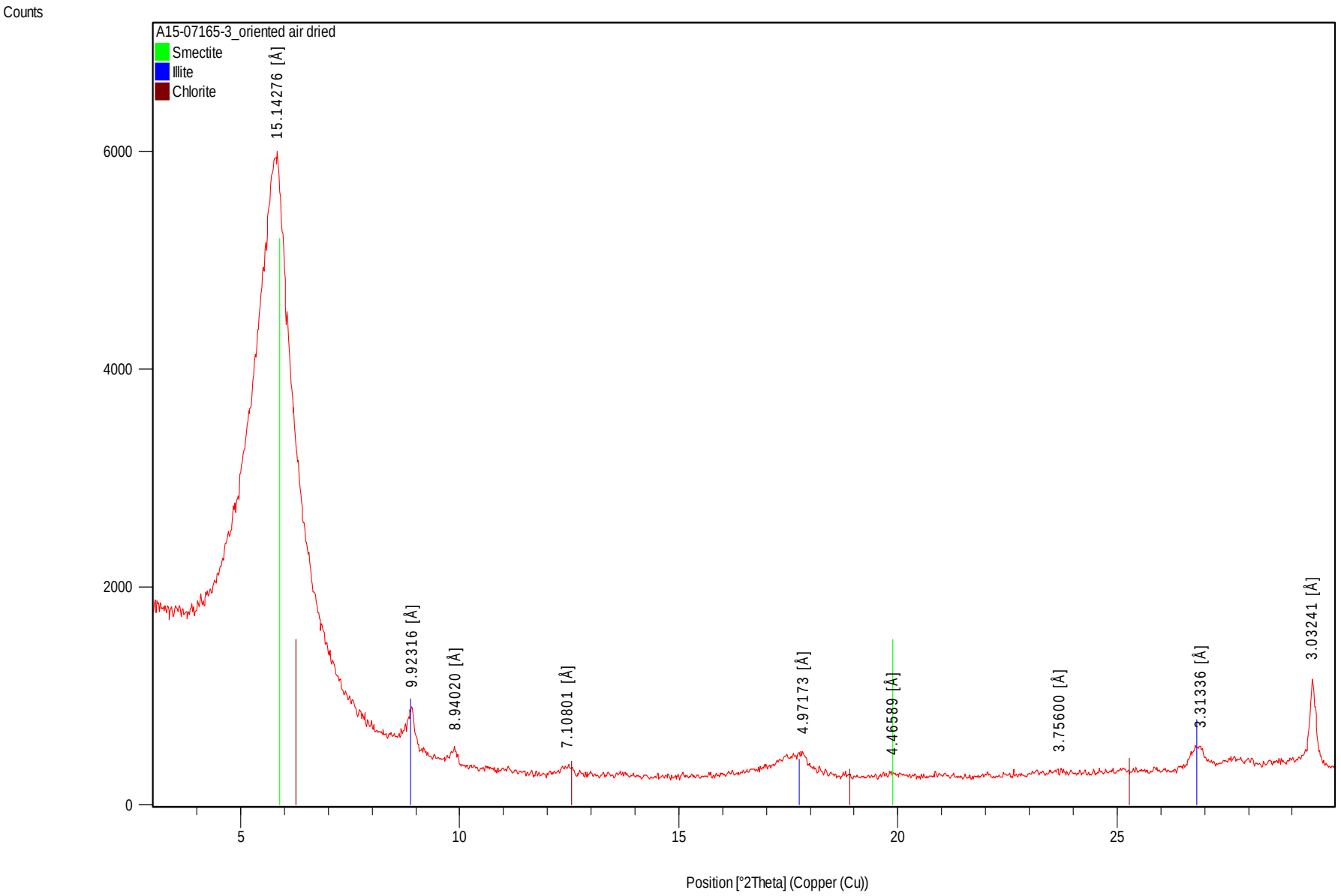
APPENDIX 2

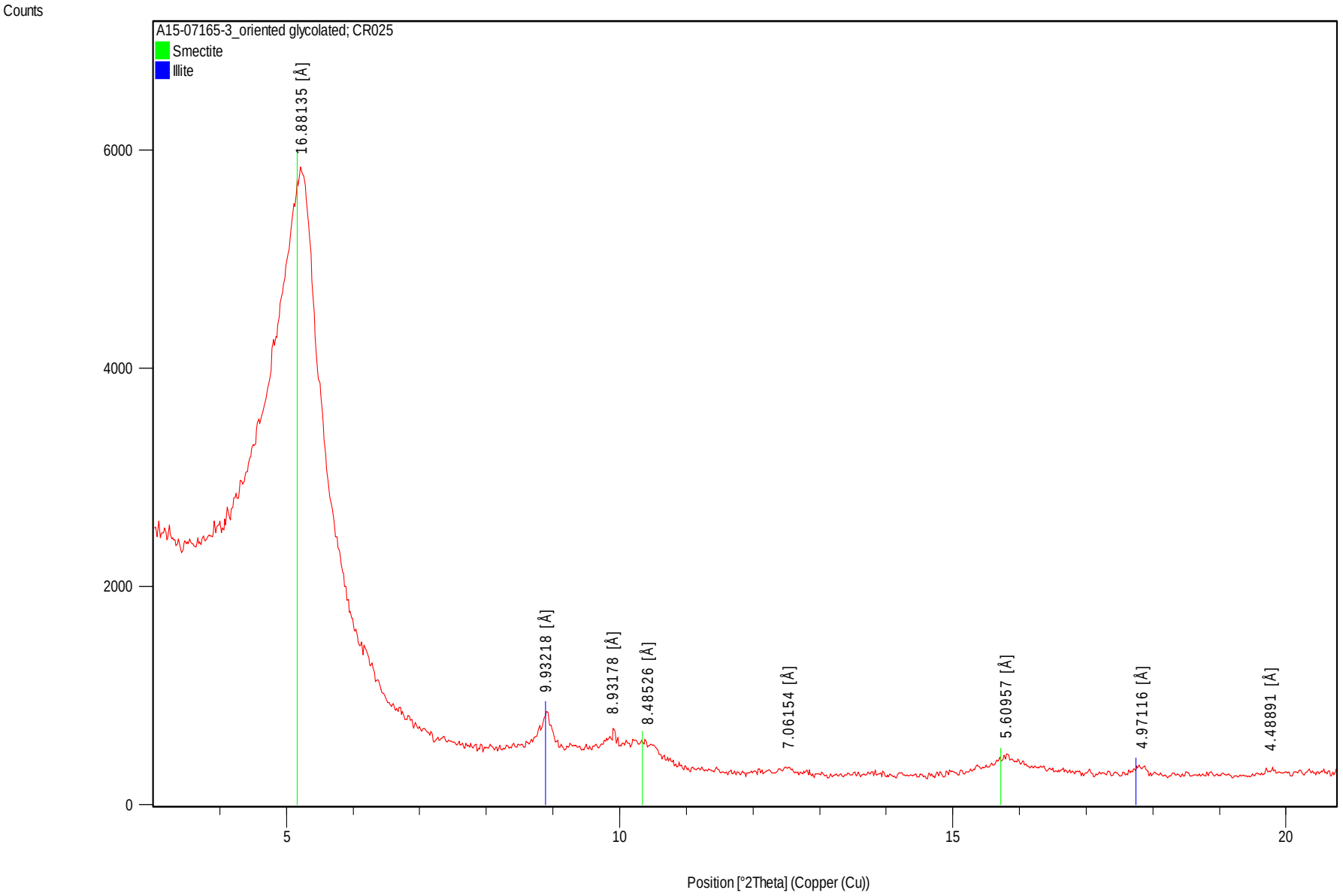
Diffraction patterns of the < 2 µm size fraction

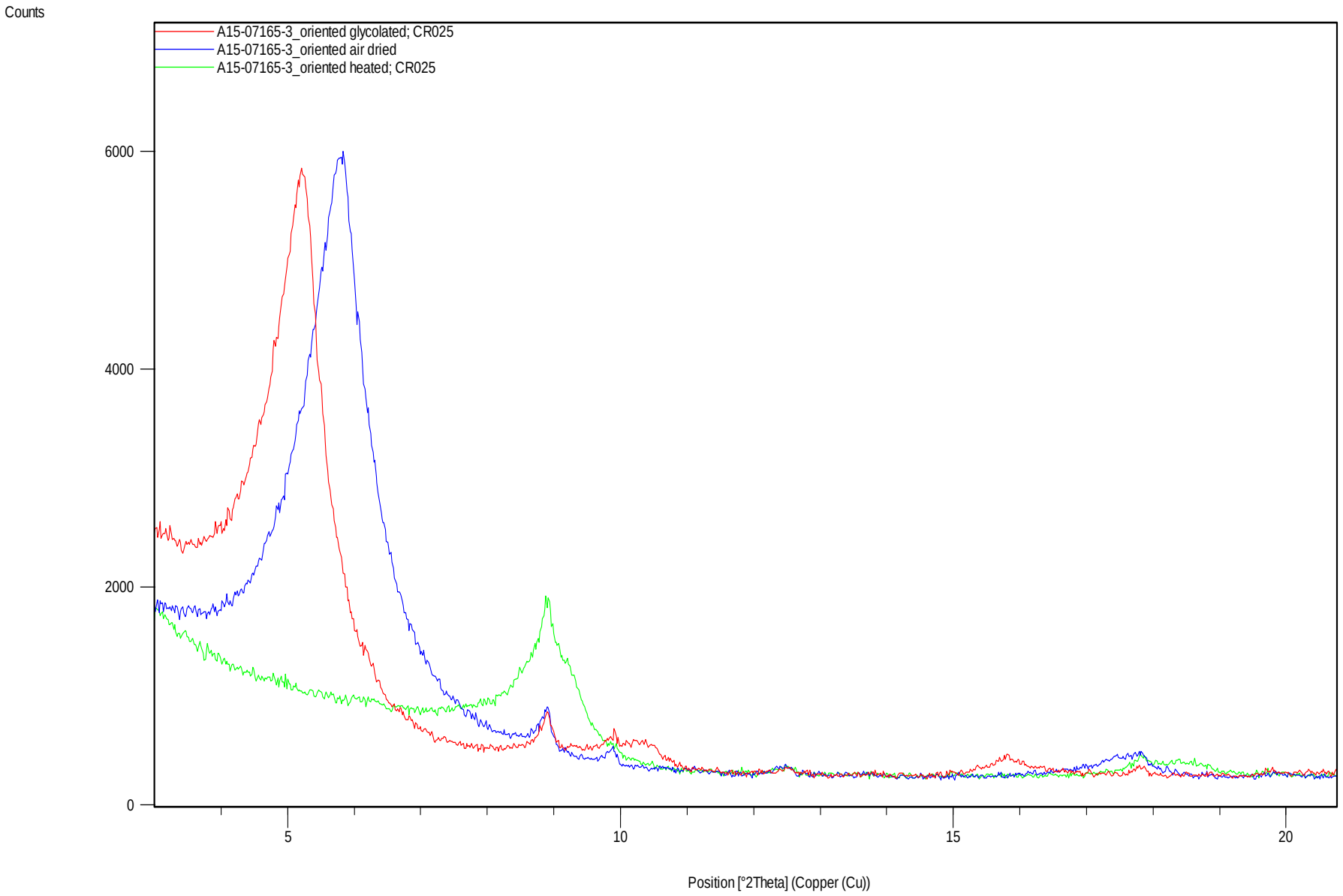

Counts
A15-07165-1_oriented air dried; CR002
Smectite
15.45570 [Å]
8.90149 [Å]
7.89598 [Å]
5.12405 [Å]
4.63928 [Å]
4.49666 [Å]
3.97550 [Å]
3.89376 [Å]
3.74634 [Å]
3.42934 [Å]
3.33676 [Å]
3.20797 [Å]
3.17938 [Å]
3.12233 [Å]
2000
1000
0
5
10
15
20
25
Position [°2Theta] (Copper (Cu))

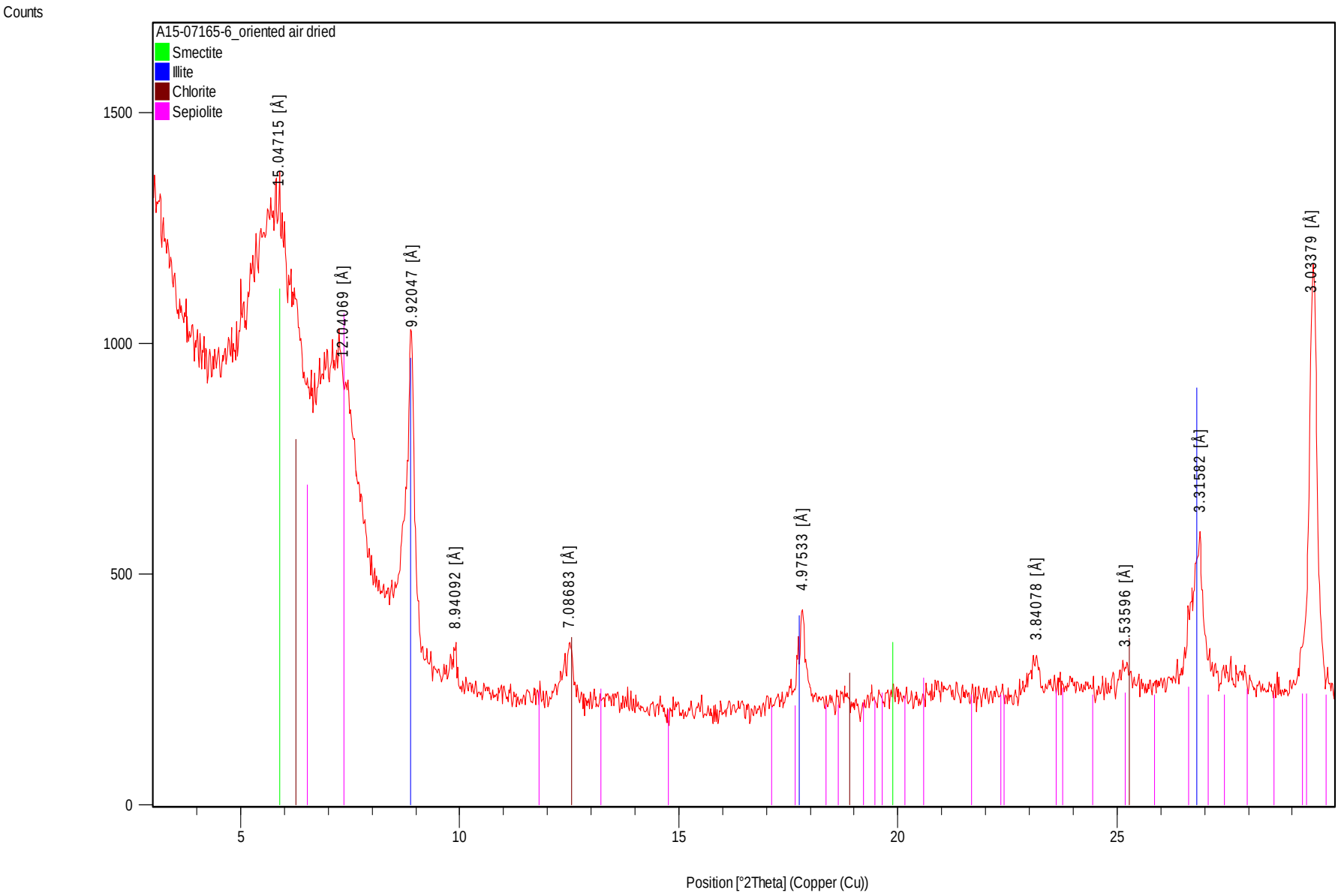

Counts
A15-07165-1_oriented glycolated; CR002
Smectite
3000
2000
1000
0
16.69073 [Å]
8.89937 [Å]
8.42141 [Å]
7.89772 [Å]
5.57663 [Å]
5.24071 [Å]
4.64946 [Å]
4.48406 [Å]
4.24141 [Å]
4.04226 [Å]
3.89063 [Å]
3.74717 [Å]
3.63583 [Å]
3.33968 [Å]
5
10
15
20
25
Position [°2Theta] (Copper (Cu))

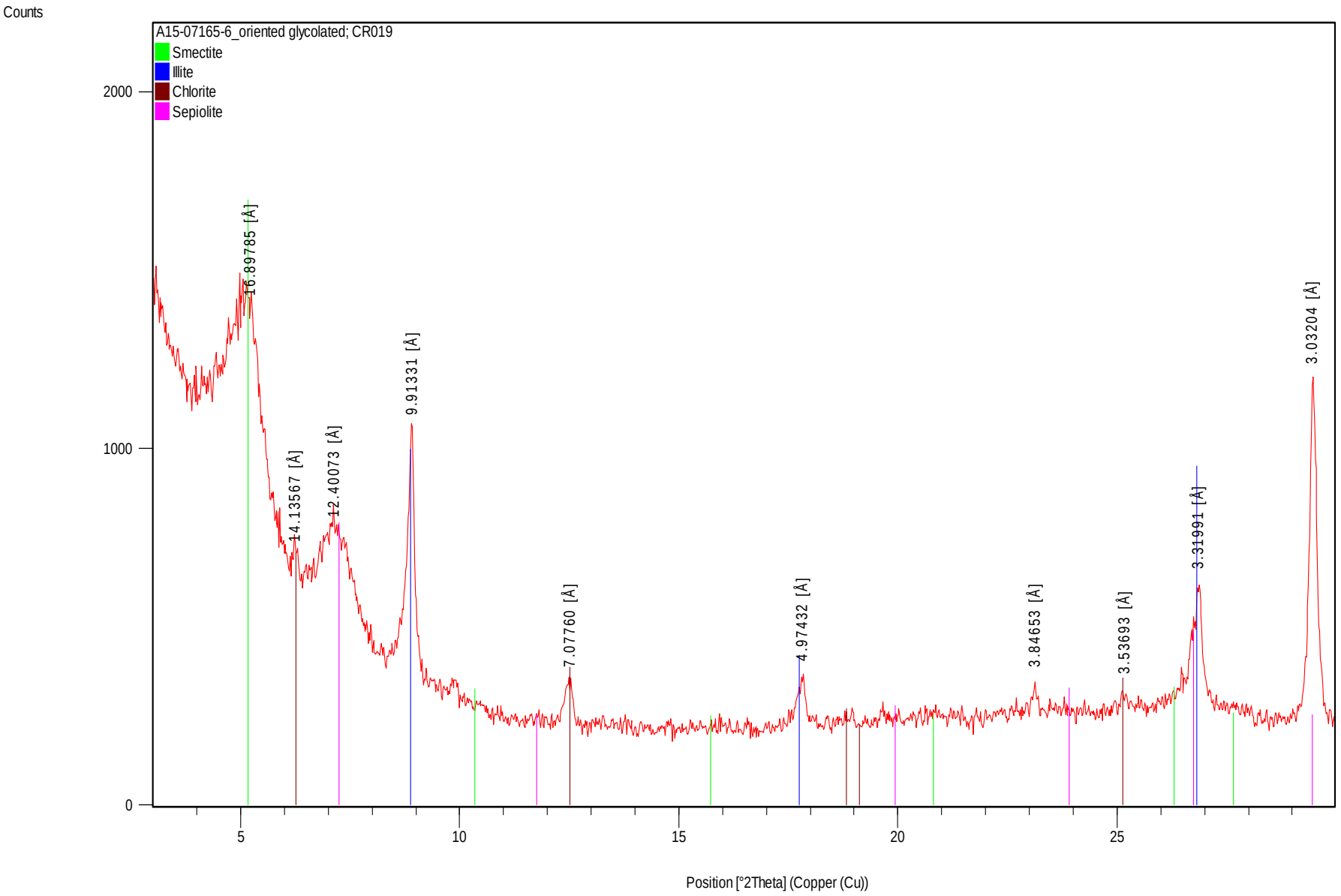

Counts
A15-07165-1_oriented glycolated; CR002
A15-07165-1_oriented air dried; CR002
A15-07165-1_oriented heated; CR002
3000
2000
1000
0
5
10
15
20
25
Position [°2Theta] (Copper (Cu))

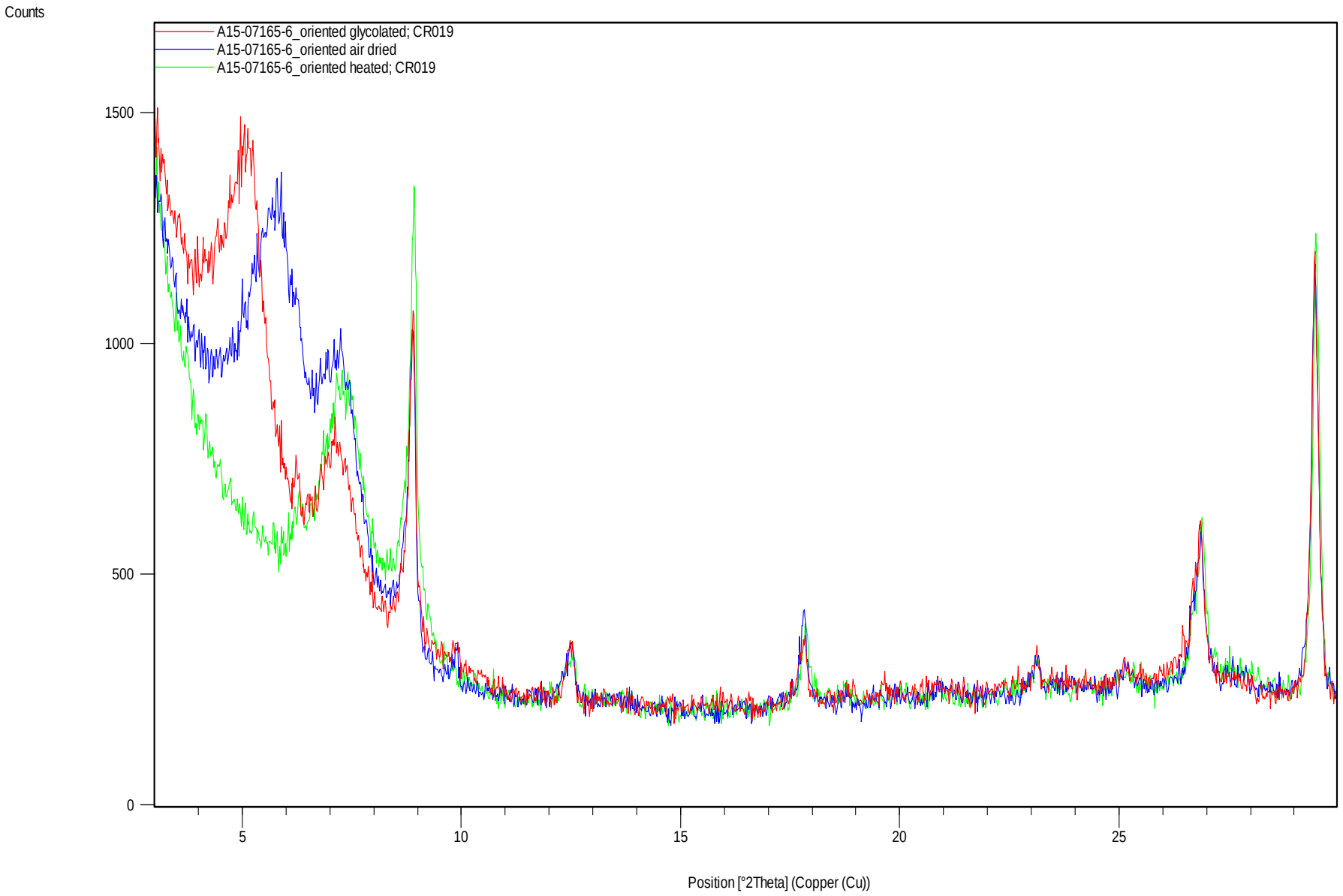

Counts
A15-07165-3_oriented air dried
Smectite
Illite
Chlorite
15.14276 [Å]
9.92316 [Å]
8.94020 [Å]
7.10801 [Å]
4.97173 [Å]
4.46589 [Å]
3.75600 [Å]
3.31336 [Å]
3.03241 [Å]
6000
4000
2000
0
5
10
15
20
25
Position [°2Theta] (Copper (Cu))

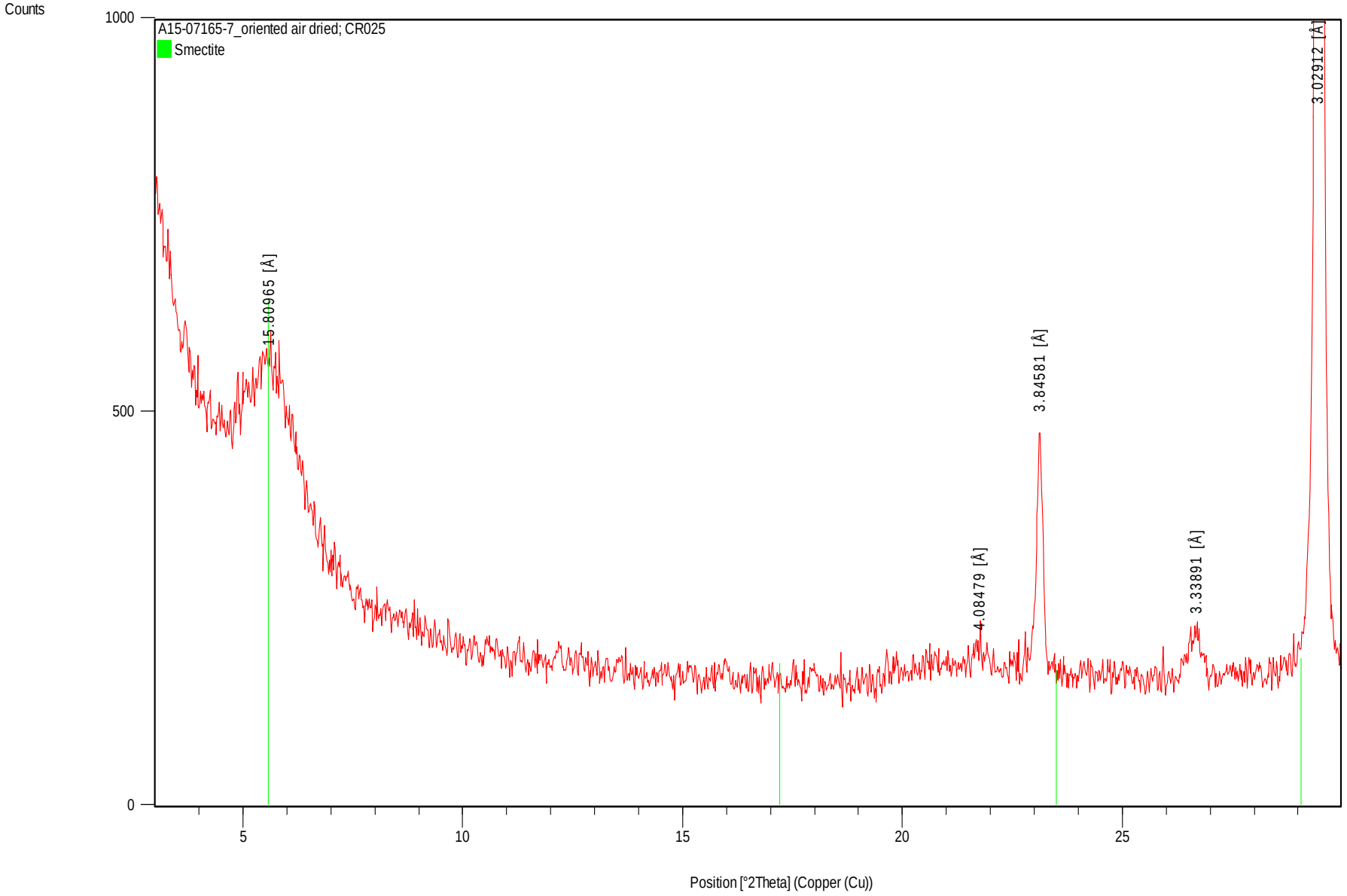

Counts
A15-07165-3_oriented glycolated; CR025
Smectite
Illite
16.88135 [Å]
9.93218 [Å]
8.93178 [Å]
8.48526 [Å]
7.06154 [Å]
5.60957 [Å]
4.97116 [Å]
4.48891 [Å]
6000
4000
2000
0
5
10
15
20
Position [°2Theta] (Copper (Cu))

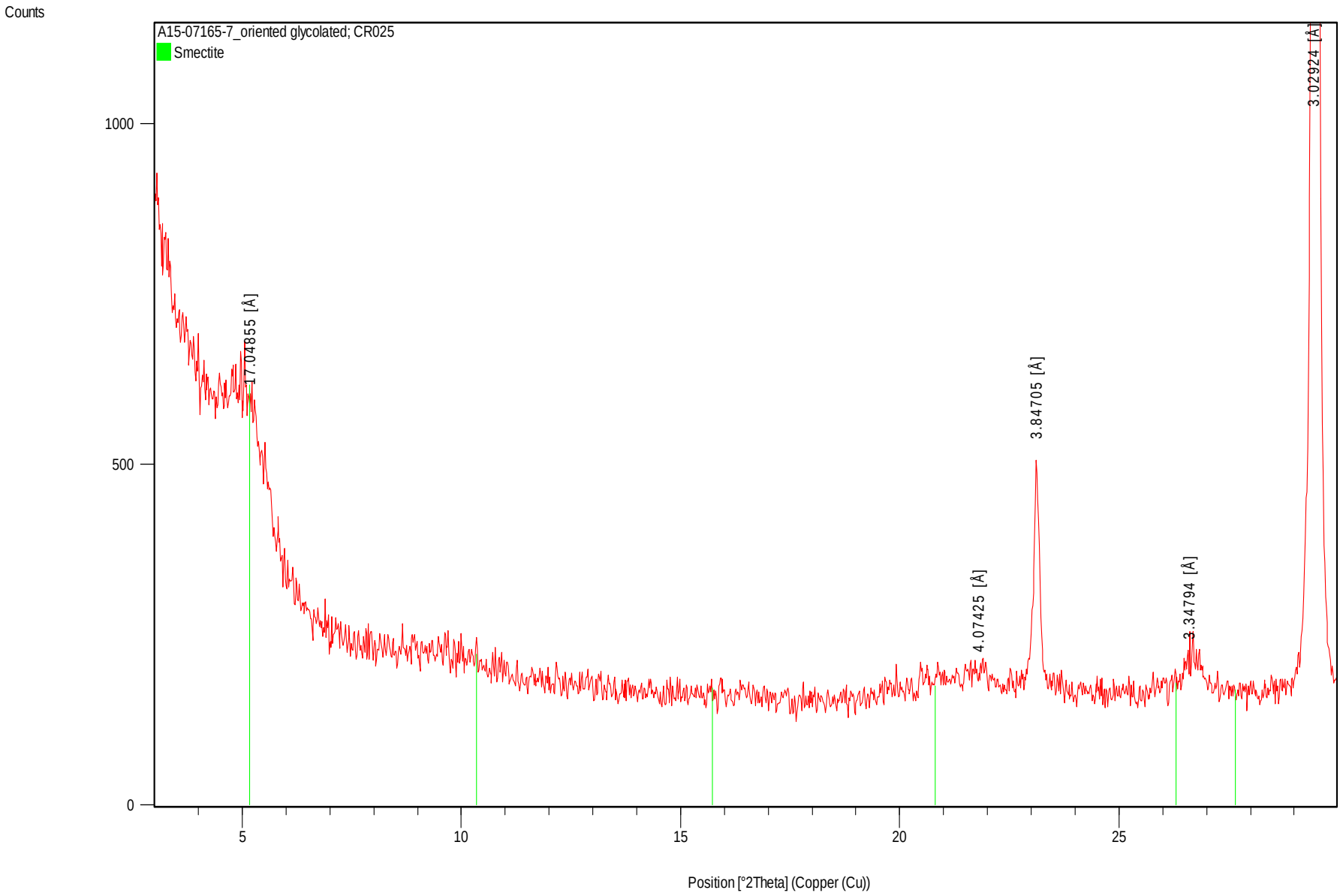

Counts
A15-07165-3_oriented glycolated; CR025
A15-07165-3_oriented air dried
A15-07165-3_oriented heated; CR025
6000
4000
2000
0
5
10
15
20
Position [°2Theta] (Copper (Cu))

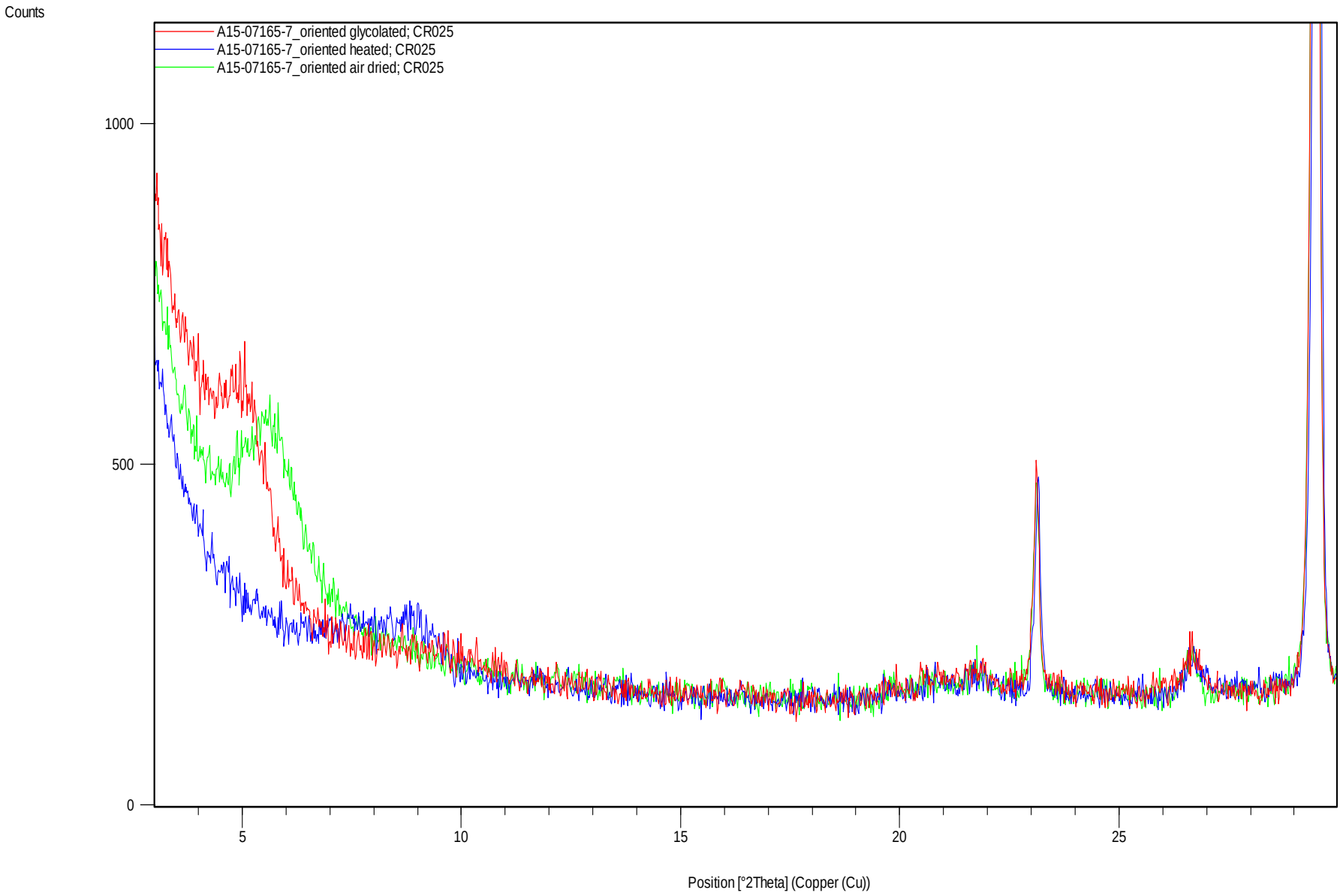

Counts
A15-07165-6_oriented air dried
Smectite
Illite
Chlorite
Sepiolite
15.04715 [Å]
12.04069 [Å]
9.92047 [Å]
8.94092 [Å]
7.08683 [Å]
4.97533 [Å]
3.84078 [Å]
3.53596 [Å]
3.31582 [Å]
3.03379 [Å]
1500
1000
500
0
5
10
15
20
25
Position [°2Theta] (Copper (Cu))


Counts
A15-07165-6_oriented glycolated; CR019
Smectite
Illite
Chlorite
Sepiolite
2000
1000
0
16.89785 [Å]
14.13567 [Å]
12.40073 [Å]
9.91331 [Å]
7.07760 [Å]
4.97432 [Å]
3.84653 [Å]
3.53693 [Å]
3.31991 [Å]
3.03204 [Å]
5
10
15
20
25
Position [°2Theta] (Copper (Cu))


Counts
A15-07165-6_oriented glycolated; CR019
A15-07165-6_oriented air dried
A15-07165-6_oriented heated; CR019
1500
1000
500
0
5
10
15
20
25
Position [°2Theta] (Copper (Cu))


Counts
1000
500
0
A15-07165-7_oriented air dried; CR025
Smectite
15.80965 [Å]
4.08479 [Å]
3.84581 [Å]
3.33891 [Å]
3.02912 [Å]
5
10
15
20
25
Position [°2Theta] (Copper (Cu))


Counts
A15-07165-7_oriented glycolated; CR025
Smectite
1000
500
0
17.04855 [Å]
4.07425 [Å]
3.84705 [Å]
3.34794 [Å]
3.02924 [Å]
5
10
15
20
25
Position [°2Theta] (Copper (Cu))


Counts
A15-07165-7_oriented glycolated; CR025
A15-07165-7_oriented heated; CR025
A15-07165-7_oriented air dried; CR025
1000
500
0
5
10
15
20
25
Position [°2Theta] (Copper (Cu))