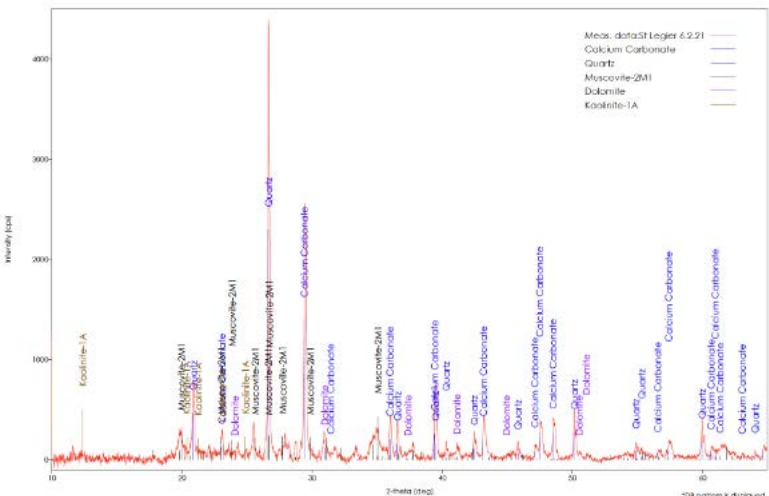




WPPF Analysis Results

General information

Analysis date	2021/09/29 11:22:52	Measurement date	2021/09/27 13:17:04
Sample name	lab6	Operator	Utima
File name	St Legier 6.2.21.raw		
Comment			

Qualitative analysis results

Phase name	Formula	Figure of merit	Phase reg. detail	DB card number
Calcium Carbonate	Ca (C O3)	0.468	ICDD (PDF-4+ 2021)	04-023-8700
Quartz	Si O2	0.347	ICDD (PDF-4+ 2021)	04-003-6495
Muscovite-2M1	K Al3 Si3 O10 (O	1.455	ICDD (PDF-4+ 2021)	04-011-5240
Dolomite	Ca1.07 Mg0.93 (C	1.589	ICDD (PDF-4+ 2021)	04-011-9832
Kaolinite-1A	Al2 Si2 O5 (O H)4	1.923	ICDD (PDF-4+ 2021)	04-010-4800

Weight ratio

	Phase name	Content(%)
-	Calcium Carbonate	27.0(5)
-	Quartz	23.3(4)
-	Muscovite-2M1	34.1(9)
-	Dolomite	4.0(3)
-	Kaolinite-1A	11.6(9)

Lattice parameters

Phase name	a(A)	b(A)	c(A)	alpha(deg)	beta(deg)	gamma(deg)	V(A^3)
Calcium	11.734(2)	4.9883(14)	17.057(3)	90.000000	165.791(4)	90.000000	245.07(9)
Quartz	4.9130(5)	4.9130(5)	5.4059(7)	90.000000	90.000000	120.000000	113.00(2)
Muscovite-2	5.201(2)	9.030(4)	20.095(9)	90.000000	95.95(3)	90.000000	938.7(7)
Dolomite	4.805(4)	4.805(4)	16.084(15)	90.000000	90.000000	120.000000	321.6(5)
Kaolinite-1A	5.195(4)	9.155(9)	7.510(5)	96.78(9)	106.33(5)	90.79(7)	339.9(5)

Crystallite size and lattice strain

Phase name	Crystallite size(A)	Distribution RSD	Strain(%)	Distribution type
Calcium	335(3)	-	0.22(5)	-
Quartz	450(4)	-	0.18(4)	-
Muscovite-2M	196.4(12)	-	0.25(7)	-
Dolomite	238.6(18)	-	0.30(7)	-
Kaolinite-1A	312(15)	-	0.58(11)	-