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CONTROL GRADE 50_20230804_130032_G05_S05_M05-Evalu report (CONTROL GRADE 50_20230804_130032_G05_S05_M05)



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General information

Analysis date	2023-08-04 15:24:46	Measurement start time	2023-08-04 13:17:00
Analyst	Administrator	Operator	Administrator
Sample name	CONTROL GRADE 50	Comment	
Measured data name	C:\Users\Rigaku pc\Desktop\ANALYSIS\OGA\04-08-2023\CO...	Memo	

Peak list

No.	2 θ , °	d, Å	Height, cps	FWHM, °	Int. I., cps°	Int. W., °	Asymmetry	Decay(η L/mL)	Decay(η H/mH)	Size, Å
1	9.33(3)	9.47(3)	364(59)	0.18(3)	76(10)	0.21(6)	3(3)	0.0(5)	0.9(9)	465(68)
2	18.60(3)	4.768(8)	391(50)	0.16(2)	69(11)	0.18(5)	1.4(10)	0.1(7)	0.0(8)	512(72)
3	24.27(18)	3.66(3)	68(10)	2.1(6)	206(89)	3.0(18)	0.6(8)	1.5(5)	0(3)	40(11)
4	27.11(3)	3.286(3)	875(88)	0.23(3)	250(18)	0.29(5)	1.7(10)	0.0(5)	0.9(5)	369(43)
5	28.041(12)	3.1795(13)	1406(116)	0.176(12)	271(17)	0.19(3)	3.4(12)	0.0(2)	0.3(5)	485(34)
6	28.513(15)	3.1280(16)	888(91)	0.214(19)	208(17)	0.23(4)	3.4(12)	0.0(2)	0.3(5)	400(36)
7	29.822(16)	2.9935(15)	299(47)	0.32(5)	108(22)	0.36(13)	0.5(4)	0.2(8)	0.2(6)	272(41)
8	34.517(12)	2.5964(9)	394(52)	0.12(5)	74(11)	0.19(5)	0.5(8)	1.2(6)	0.9(6)	728(308)
9	42.980(11)	2.1027(5)	324(42)	0.15(3)	58(11)	0.18(6)	5(11)	0.0(8)	1.3(7)	595(136)

No.	2 θ , °	Phase Name	Chemical Formula	Card No	Norm. I.	Profile Type	Distributi...	Degree of Orientation
1	9.33(3)	Unknown			28.16	Split pseudo-Voigt	-	-
2	18.60(3)	Unknown			25.49	Split pseudo-Voigt	-	-
3	24.27(18)	Sanidine: 1 3 0,Osumilite: 0 0 4	K (Al Si ₃ O ₈),K - N...	01-071-1544,00-01...	75.95	Split pseudo-Voigt	-	-
4	27.11(3)	Orthoclase: 2 2 0,Muscovite: 0...	Al ₂ O ₃ · K ₂ O · 6 Si...	00-002-0534,00-00...	92.07	Split pseudo-Voigt	-	-
5	28.041(12)	quartz HP: 1 0 1,Sanidine: 0 4...	Si O ₂ ,K (Al Si ₃ O ₈ ...	01-083-0542,01-07...	100.00	Split pseudo-Voigt	-	-
6	28.513(15)	Unknown			76.64	Split pseudo-Voigt	-	-
7	29.822(16)	Albite: 2 2 -2,Muscovite: 0 2 5,...	Na Al Si ₃ O ₈ ,H ₂ K...	00-001-0739,00-00...	39.83	Split pseudo-Voigt	-	-
8	34.517(12)	Albite: 2 4 -1	Na Al Si ₃ O ₈	00-001-0739	27.28	Split pseudo-Voigt	-	-
9	42.980(11)	quartz HP: 1 1 1,Sanidine: 3 1 -...	Si O ₂ ,K (Al Si ₃ O ₈ ...	01-083-0542,01-07...	21.35	Split pseudo-Voigt	-	-

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No.	2 θ , °	Ring Factor	β Cluster
1	9.33(3)	-	-
2	18.60(3)	-	-
3	24.27(18)	-	-
4	27.11(3)	-	-
5	28.041(12)	-	-
6	28.513(15)	-	-
7	29.822(16)	-	-
8	34.517(12)	-	-
9	42.980(11)	-	-

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Qualitative Analysis Results

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Phase name	Formula	Figure of merit	Phase reg. detail	Space Group	DB Card Number
quartz HP	Si O2	1.384	Import(PDF-4 Minerals 2021)	152 : P3121	01-083-0542
Sanidine	K (Al Si3 O8)	2.018	Import(PDF-4 Minerals 2021)	12 : C12/m1	01-071-1544
Albite	Na Al Si3 O8	3.050	Import(PDF-4 Minerals 2021)	2 : C-1	00-001-0739
Orthoclase	Al2 O3 · K2 O · 6 Si O2	3.095	Import(PDF-4 Minerals 2021)	12 : C12/m1	00-002-0534
Muscovite	H2 K Al3 (Si O4)3	3.125	Import(PDF-4 Minerals 2021)	15 : C12/c1	00-001-1098
Osumilite	K - Na - Ca - Mg - Fe - Al - S...	3.392	Import(PDF-4 Minerals 2021)	192 : P6/mcc	00-010-0413



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Phase Data View

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