

Quantitative Analysis from Profile-Fitted Peaks

FILE: [P2 SS16 554 Dark .raw] P2 SS16 554' Dark

SCAN: 2.5/60.0/0.02/1.2(sec), Cu(40kV,40mA), I(max)=4906, 06/08/15 02:06p

PROC: [New Quantitative Analysis]

Phase ID (4)	RIR	Wt%	Wt(n)%	Vol(n)%	#L	I%-I(r)	POC
Pyrite - FeS ₂	0.89	18.4 (9.4)	18.4 (9.4)	11.0 (6.6)	2	3.9	<None>
Illite-2M2 - KAl ₂ (Si ₃ Al)O ₁₀ (OH) ₂	0.36	43.0 (22.0)	43.0 (22.0)	45.7 (27.6)	1	50.0	<None>
Kaolinite-1A - Al ₂ Si ₂ O ₅ (OH) ₄	1.07	1.8 (0.9)	1.8 (0.9)	2.0 (1.2)	1	78.3	<None>
Quartz - SiO ₂	3.41	36.7 (18.8)	36.7 (18.8)	41.2 (24.9)	5	2.6	<None>

NOTE: Calculation Using: Peak Area, POC: Preferred Orientation Correction, Brindley Correction = 5.0 microns

2-Theta	FWHM	Height	H%	Area(a1)	A%	I(r)	I(p)	I%-I(r)	(h k l)
33.024 (0.031)	0.169 (0.045)	418 (92)	100.0	4324 (1227)	100.0	100.0	100.0	0.0	(2 0 0)
40.716 (0.020)	0.185 (0.038)	245 (34)	58.5	2610 (560)	60.4	52.6	52.6	7.8	(-1 -1 2)
19.747 (0.016)	0.515 (0.025)	295 (6)	100.0	8832 (393)	100.0	150.0	150.0	-50.0	(1 1 0)
12.334 (0.047)	0.374 (0.090)	38 (17)	100.0	748 (355)	100.0	100.0	100.0	0.0	(0 0 1)
20.872 (0.005)	0.220 (0.006)	568 (13)	17.5	8345 (227)	20.7	16.0	16.0	4.7	(1 0 0)
26.627 (0.005)	0.198 (0.006)	3255 (77)	100.0	40300 (1183)	100.0	100.0	100.0	0.0	(1 0 1)
39.438 (0.019)	0.190 (0.029)	284 (35)	8.7	2878 (523)	7.1	8.0	8.0	-0.9	(1 0 2)
42.428 (0.032)	0.218 (0.039)	281 (44)	8.6	3346 (730)	8.3	6.0	6.0	2.3	(2 0 0)
50.105 (0.011)	0.196 (0.018)	670 (54)	20.6	7312 (817)	18.1	13.0	13.0	5.1	(1 1 2)

Trace Muscovite

Trace Montmorillonite

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