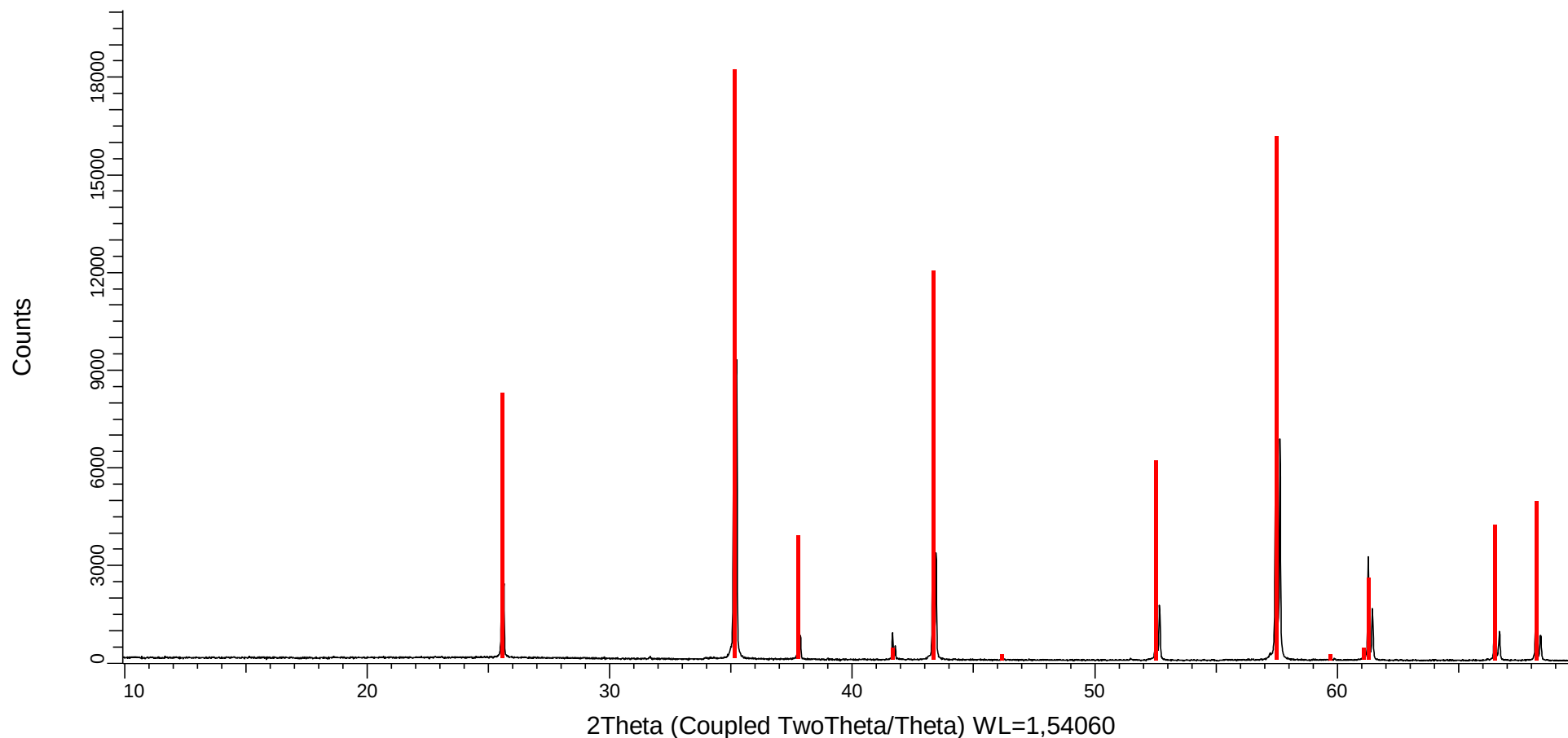


PATRÓN DE CORINDÓN 11-01-13



CORINDON 23-08-12. Barrido tipo Θ - Θ . Rango: 10 a 70 $^{\circ}2\Theta$. Paso: 0,03. Tiempo por paso: 0,1 seg. Detector: Lynxeye.



Patrón de Corindón. Trigonal – a 4.7588770 - c 12.992877 – R-3c (167) – Z 6 – V 254.81

15 de enero de 2013



SGI LABORATORIO DE RAYOS X

Corindon D8I-90 11-01-13

Range Number : 1

R-Values

Rexp : 6.91 Rwp : 11.06 Rp : 8.87 GOF : 1.60
Rexp` : 10.69 Rwp` : 17.11 Rp` : 18.18 DW : 1.05

Instrument

Primary radius (mm) 250
Secondary radius (mm) 250
Linear PSD 2Th angular range (°) 3.3
FDS angle (°) 0.5
Beam spill, sample length (mm) 25.4
Intensity corrected
Full Axial Convolution
Filament length (mm) 12
Sample length (mm) 25.4
Receiving Slit length (mm) 12
Primary Sollers (°) 2.5
Secondary Sollers (°) 2.5

hkl Phase - 1 Lebail method

Phase name Corindon
R-Bragg 0.809
Spacegroup r-3c
Cell Mass 0.000
Cell Volume (Å³) 254.8066(43)
Wt% - Rietveld 0.000
Crystallite Size
Cry size Lorentzian (nm) 2240(790)
Cry size Gaussian (nm) 1600(1100)
k: 1 LVol-IB (nm) 860(330)
k: 0.89 LVol-FWHM (nm) 990(440)
Strain
Strain L 0.0067(34)
Strain G 0.0277(43)
e0 0.0079(12)

Lattice parameters

a (Å) 4.758812(35) **4.758877(113)**
c (Å) 12.99221(10) **12.992877(164)**

SRM 1976a Certificate

h	k	l	m	d	Th2	I	=
0	1	2	6	3.48000	25.57665	10.7	
1	0	4	6	2.55102	35.15042	88.9	
1	1	0	6	2.37941	37.77795	7.77	
0	0	6	2	2.16537	41.67705	6.02	
1	1	3	12	2.08538	43.35476	52.2	
2	0	2	6	1.96417	46.17966	0.511	
0	2	4	6	1.74000	52.55250	45	
1	1	6	12	1.60148	57.50029	235	
2	1	1	12	1.54661	59.74287	1.86	
1	2	2	12	1.51475	61.13221	2.31	
0	1	8	6	1.51094	61.30265	64.9	
2	1	4	12	1.40452	66.52024	48.1	
0	3	0	6	1.37375	68.21206	46.4	
1	2	5	12	1.33602	70.41827	2.29	

15 de enero de 2013

2 de 2

