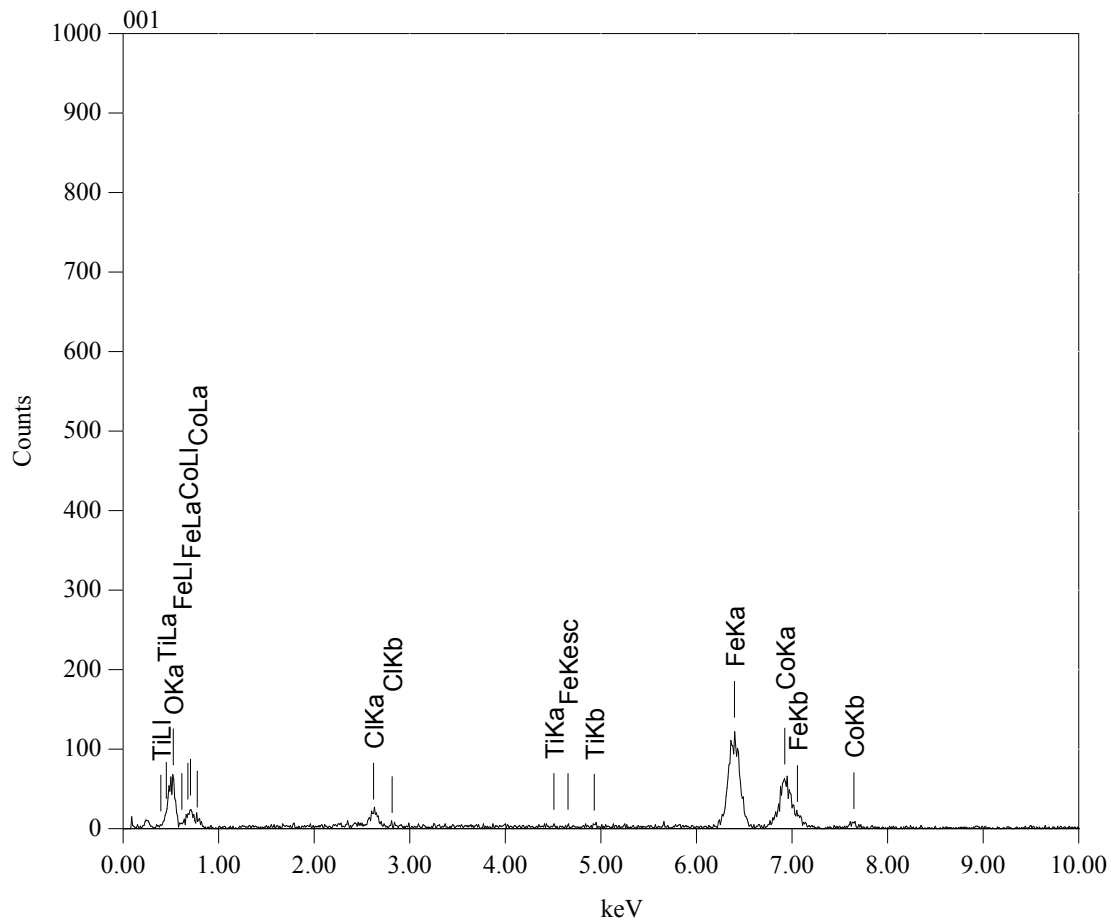


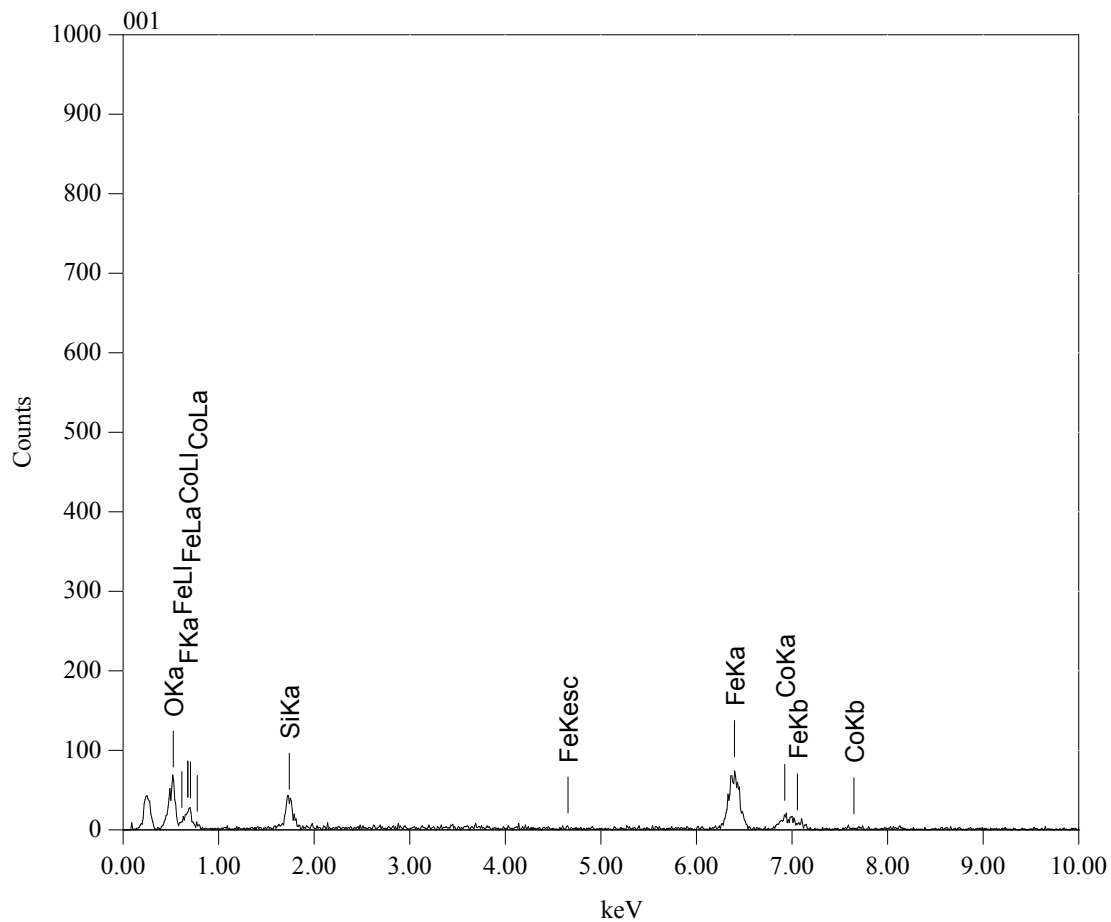
Element	(keV)	mass%	Error%	At%	Compound	mass%	Cation K
O K	0.525	15.36	0.11	38.63			18.8430
Cl K	2.621	3.63	0.10	4.12			3.4575
Fe K	6.398	51.21	0.29	36.90			49.4681
Co K	6.924	29.80	0.36	20.35			28.2314
Total		100.00		100.00			

( 1 C )



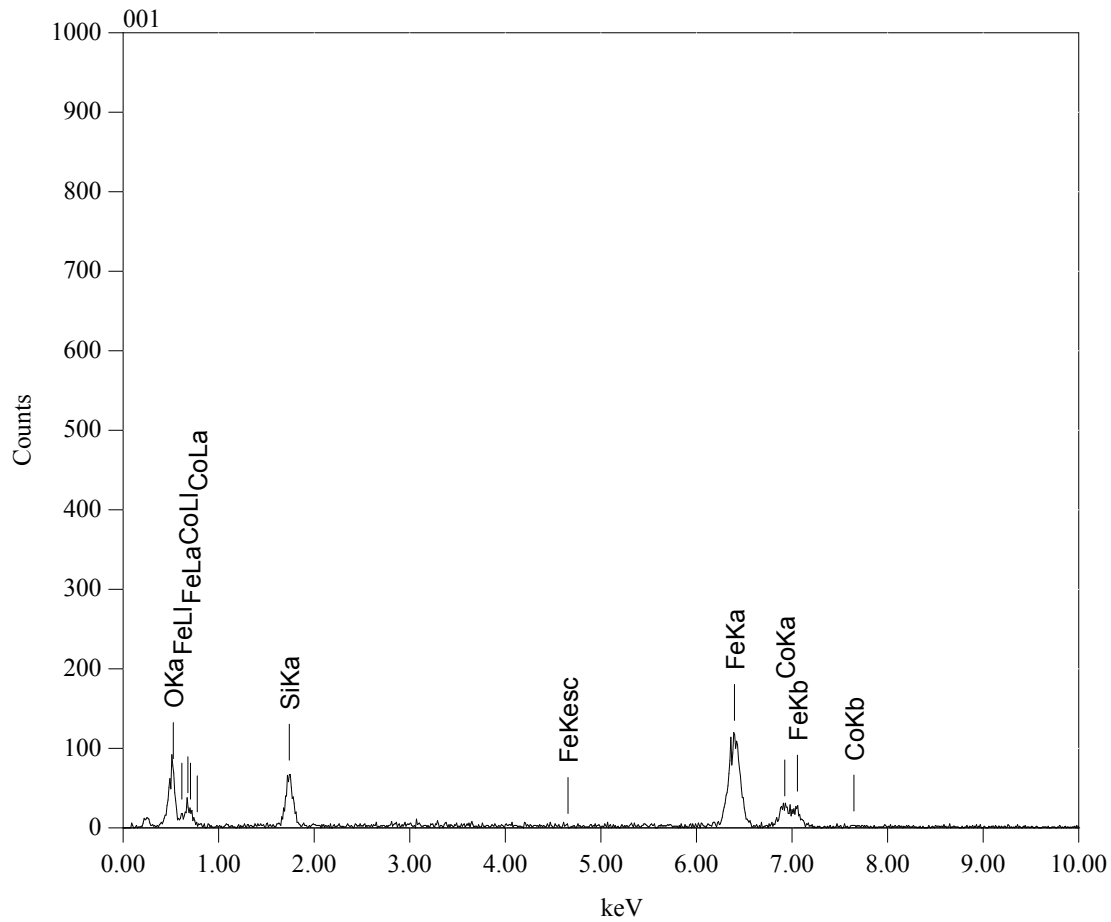
Element(keV)	mass%	Error%	At%	Compound	mass%	Cation K
O K	0.525	11.94	0.10	32.16		14.8570
Cl K	2.621	2.74	0.09	3.32		2.6026
Fe K	6.398	52.49	0.27	40.50		51.1508
Co K	6.924	32.84	0.33	24.01		31.3896
Total		100.00		100.00		

( 1 C- 1 )



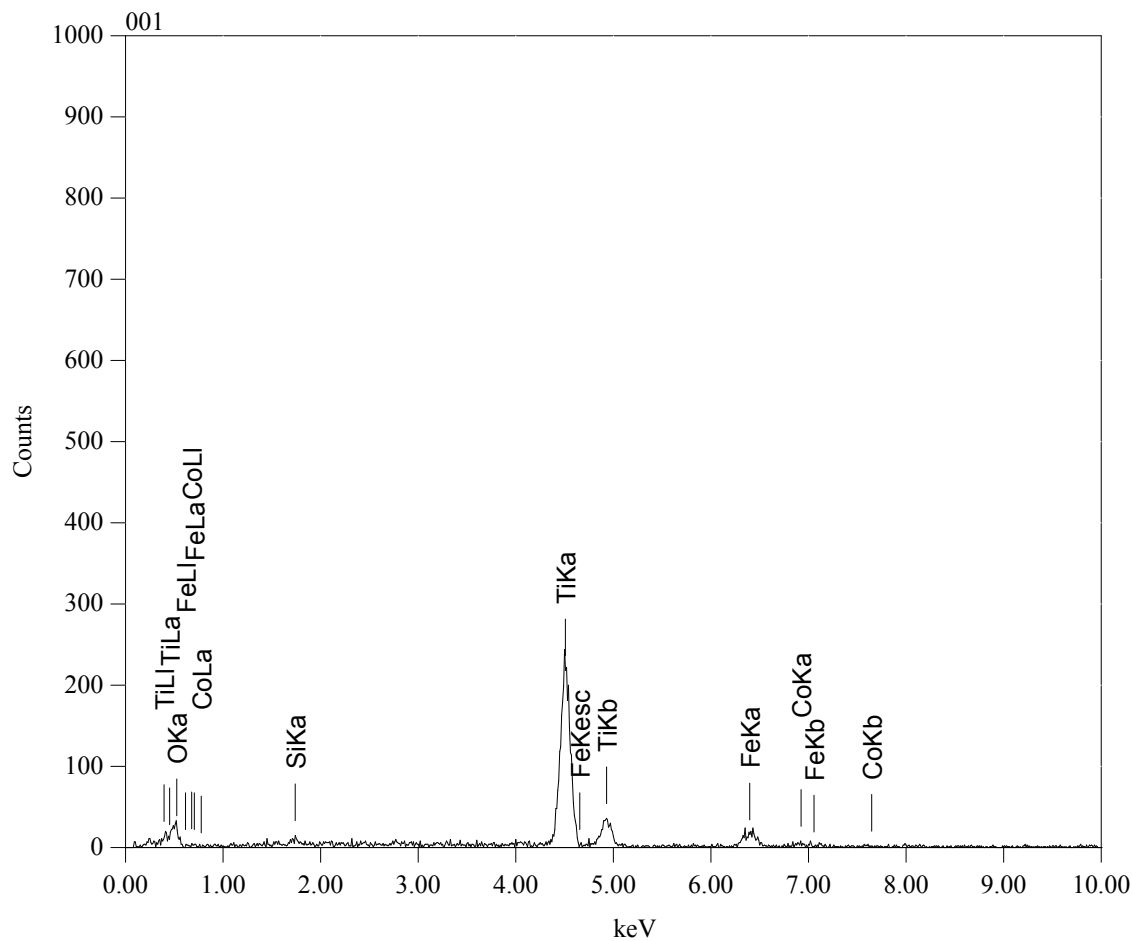
Element	(keV)	mass%	Error%	At%	Compound	mass%	Cation K
O K	0.525	19.37	0.23	40.82			25.5354
F K	0.677	4.64	0.30	8.23			1.9367
Si K	1.739	9.19	0.28	11.03			5.7627
Fe K	6.398	53.40	0.63	32.25			53.5811
Co K	6.924	13.41	0.79	7.67			13.1842
Total		100.00		100.00			

( SC1 )



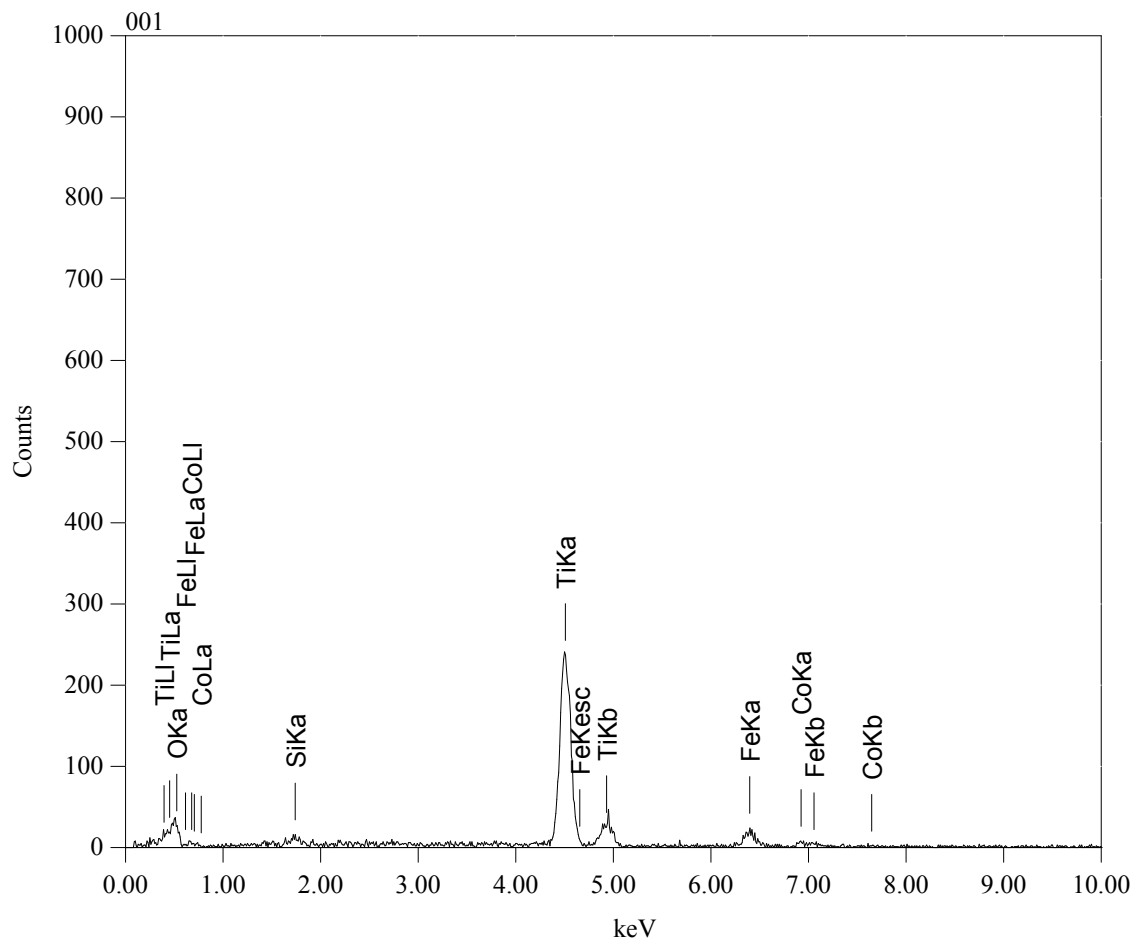
Element	(keV)	mass%	Error%	At%	Compound	mass%	Cation K
O K	0.525	17.77	0.11	40.48			22.5117
Si K	1.739	9.81	0.14	12.73			6.0043
Fe K	6.398	58.44	0.30	38.15			57.9049
Co K	6.924	13.98	0.38	8.65			13.5791
Total		100.00		100.00			

( SC1-1 )



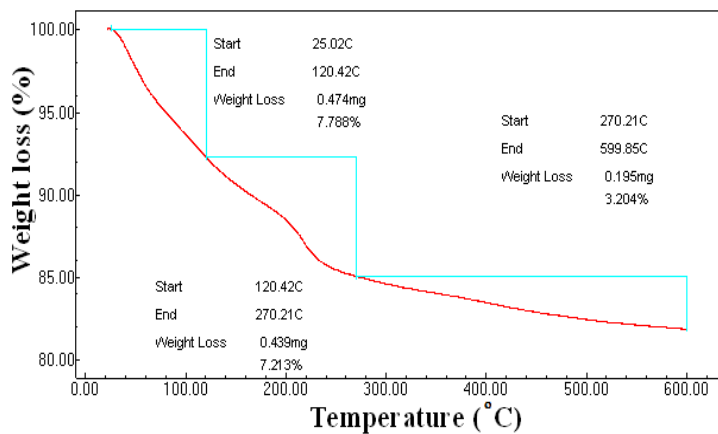
Element	(keV)	mass%	Error%	At%	Compound	mass%	Cation K
O K	0.525	29.30	0.58	55.70			10.2406
Si K	1.739	1.02	0.10	1.10			0.9609
Ti K	4.508	58.80	0.15	37.33			76.0844
Fe K	6.398	8.73	0.30	4.76			10.2202
Co K	6.924	2.14	0.36	1.10			2.4939
Total		100.00		100.00			

( TSC )

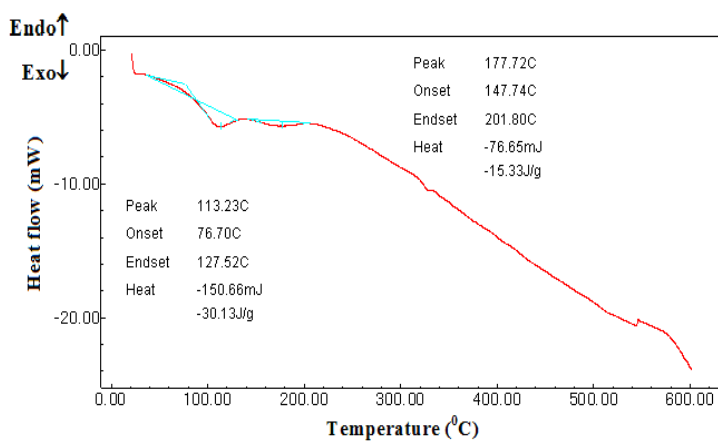


Element	(keV)	mass%	Error%	At%	Compound	mass%	Cation K
O K	0.525	29.74	0.65	56.35			10.6733
Si K	1.739	0.78	0.12	0.85			0.7360
Ti K	4.508	57.50	0.17	36.39			74.5394
Fe K	6.398	8.97	0.34	4.87			10.5307
Co K	6.924	3.01	0.42	1.55			3.5207
Total		100.00		100.00			

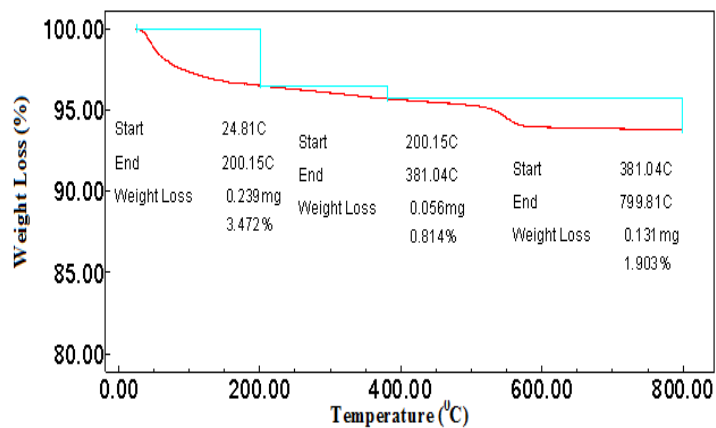
( TSC-1 )



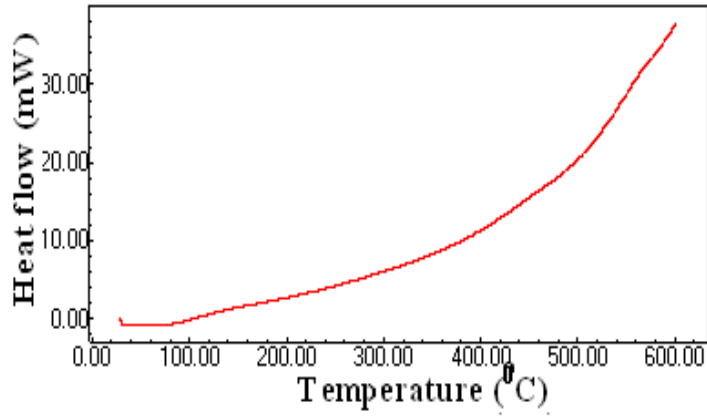
(a)



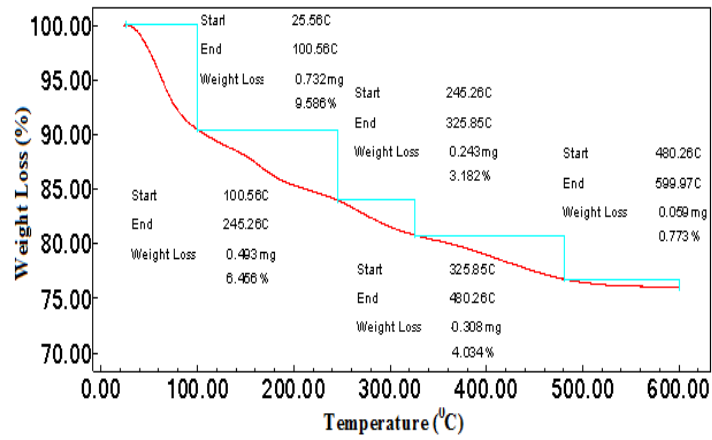
(b)



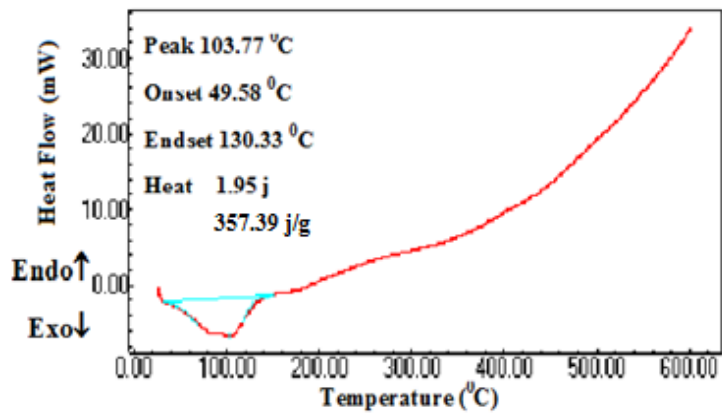
(c)



(d)

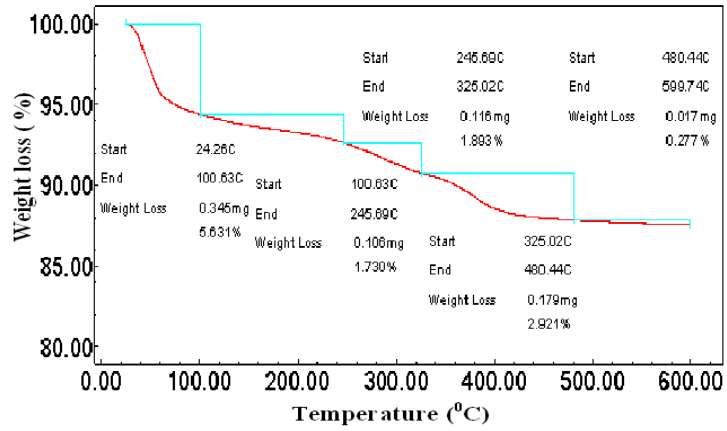


(e)

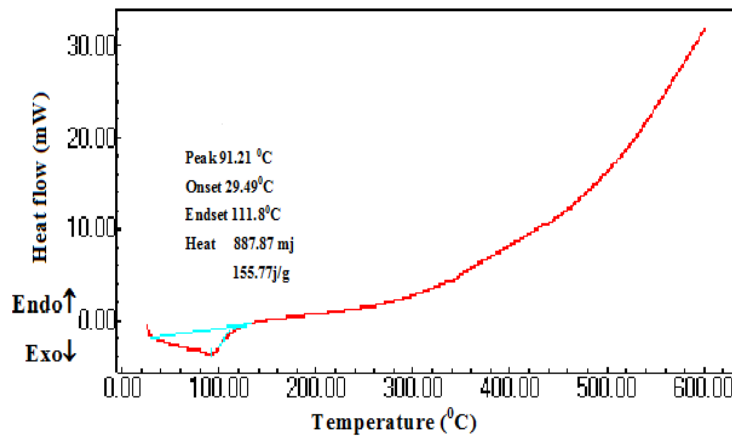


(f)





(g)



(h)

Figure: TGA for a) as prepared  $\text{CoFe}_2\text{O}_4$ , c) SC , e)TSC and g) 4C and DSC for b) as prepared  $\text{CoFe}_2\text{O}_4$ , d) SC , f)TSC and h) 4C.