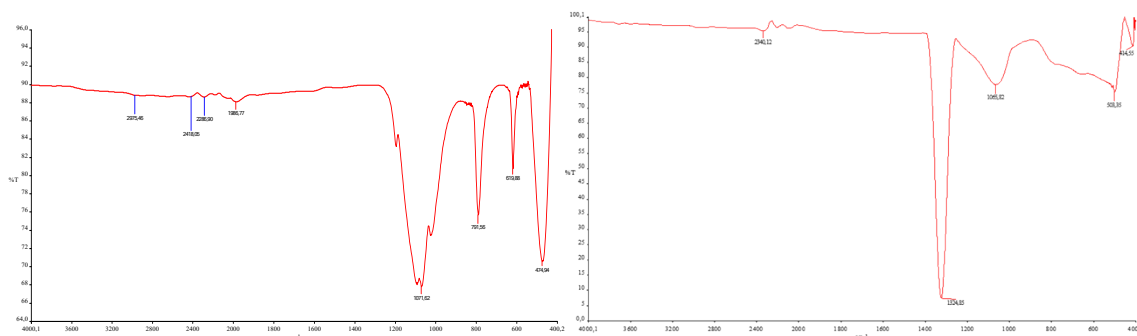


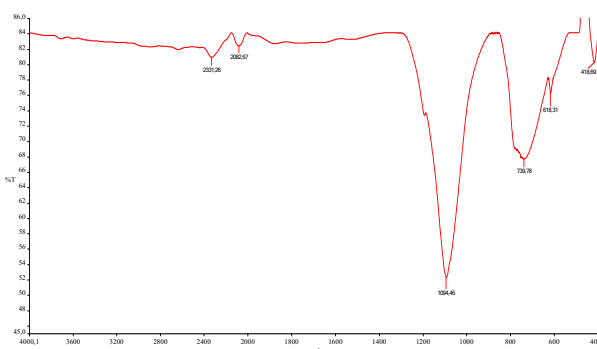
1

2



3

4

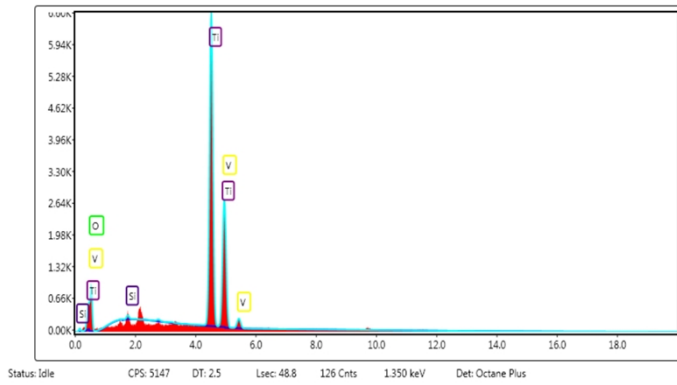


5

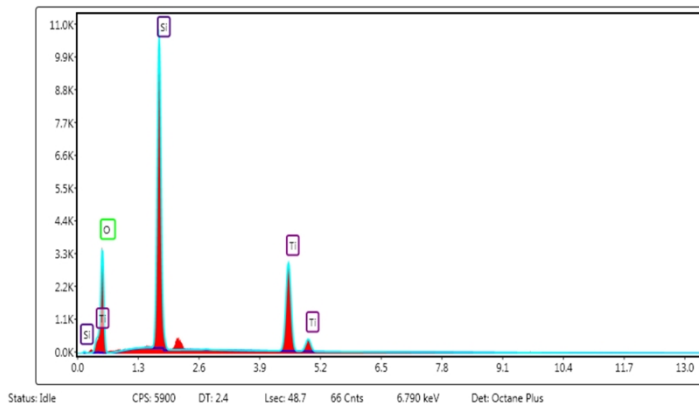
S.1. FTIR spectra of the synthesized nanocomposites (1-5)

**eZAF Smart Quant Results**

Element	Weight %	Atomic %	Net Int.
O K	27.9	54	127.77
SiK	0.29	0.32	14.8
TiK	52.66	34.04	1749.03
V K	19.14	11.64	515.61



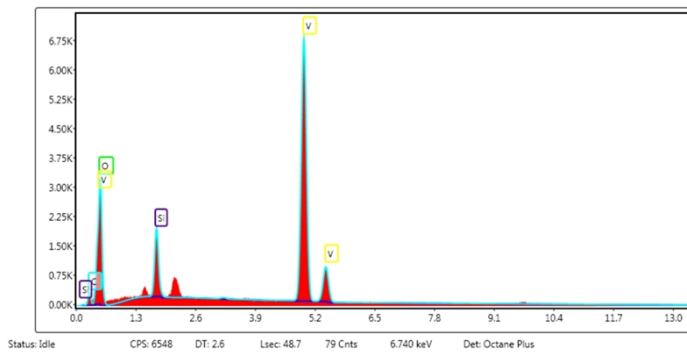
1



### eZAF Smart Quant Results

Element	Weight %	Atomic %	Net Int.
O K	47.75	66.01	539.48
Si K	30.27	23.84	2056.84
Ti K	21.98	10.15	799.24

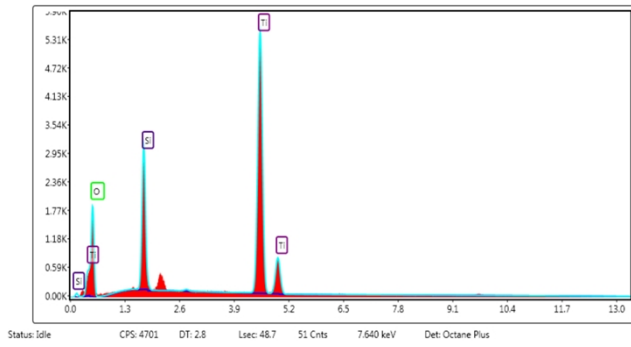
2



### eZAF Smart Quant Results

Element	Weight %	Atomic %	Net Int.
O K	31.83	53.54	229.58
Si K	5.6	5.37	342.33
V K	57.88	30.58	1883.21

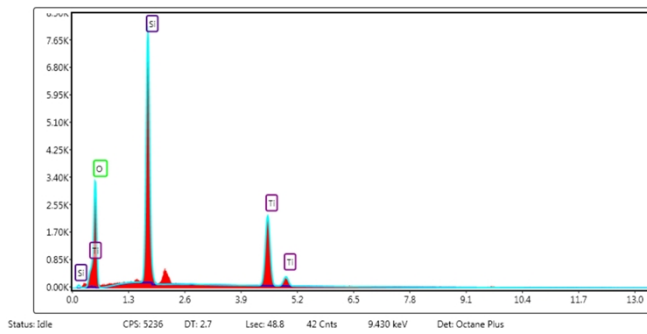
3



### eZAF Smart Quant Results

Element	Weight %	Atomic %	Net Int.
O K	44.39	67.79	291.71
Si K	10.71	9.31	585.29
Ti K	44.9	22.9	1465.67

4



### eZAF Smart Quant Results

Element	Weight %	Atomic %	Net Int.
O K	51.95	69.62	509.62
Si K	28.12	21.46	1523.7
Ti K	19.93	8.92	583.22

5

## S.2. EDS graphs for the synthesized nanocomposites (1-5)