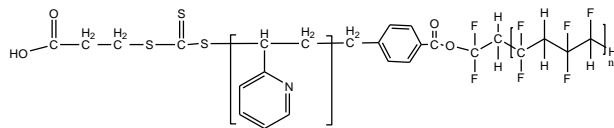


**Sample Name:** Block copolymer of Poly (vinylidene difluoride)-b-poly (2-vinyl pyridine)

**Sample #:** P41182-VDF-2VP

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
30.0-b-30.0	1.7
Composition by HNMR	

**Synthesis procedure:**

The polymer was synthesized by radical polymerization process using 4-chloromethyl benzoyl peroxide as an initiator.

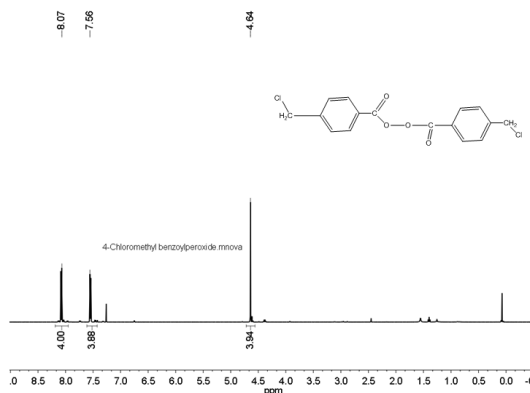
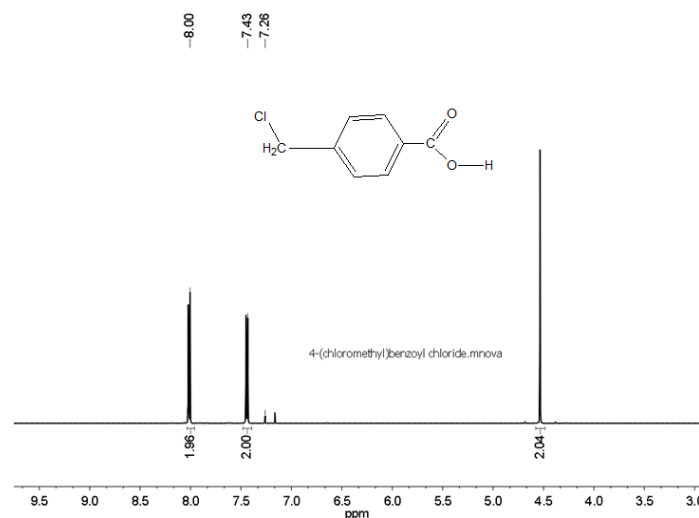
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) runs in DMF as an eluant and <sup>1</sup>H NMR runs in Acetone.

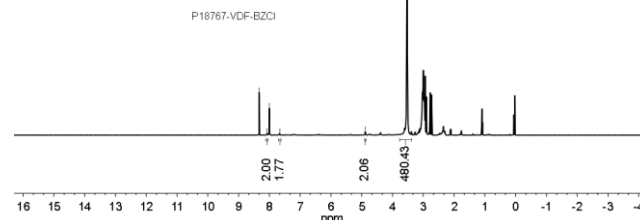
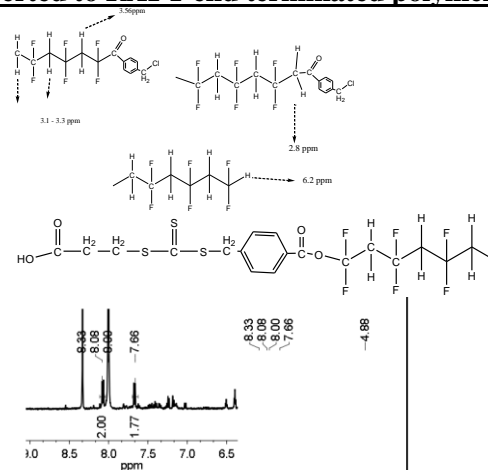
**Solubility:**

The polymer is soluble in dimethylformamide (DMF), Acetone and in THF.

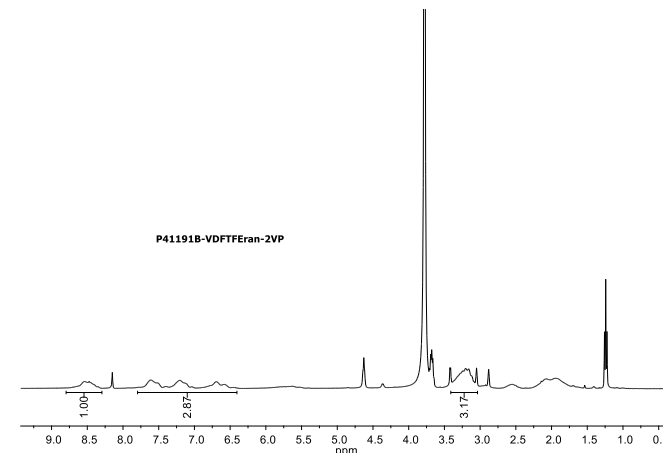
**<sup>1</sup>H NMR spectrum of the initiator and its precursor:**



**<sup>1</sup>HNMR of BzCl terminated VDF prepolymer converted to RAFT end terminated polymer:**



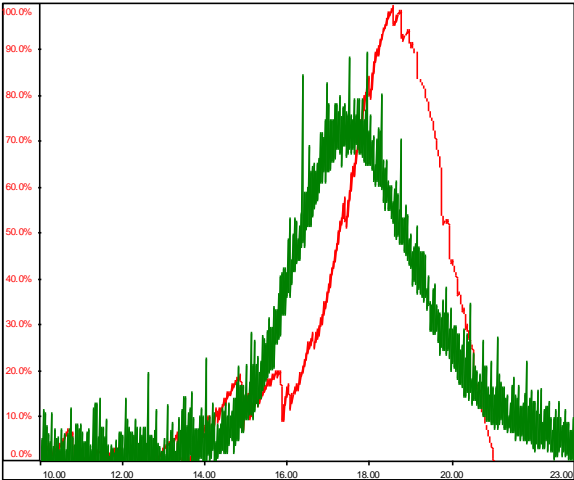
**HNMR spectrum of the Sample:**



SEC elugram of the Sample:

P41182-VDF-2VP

Conc	0.2919
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P41182-2_01.vdt	60,790	107,333	48,073	1.766	2.3388