

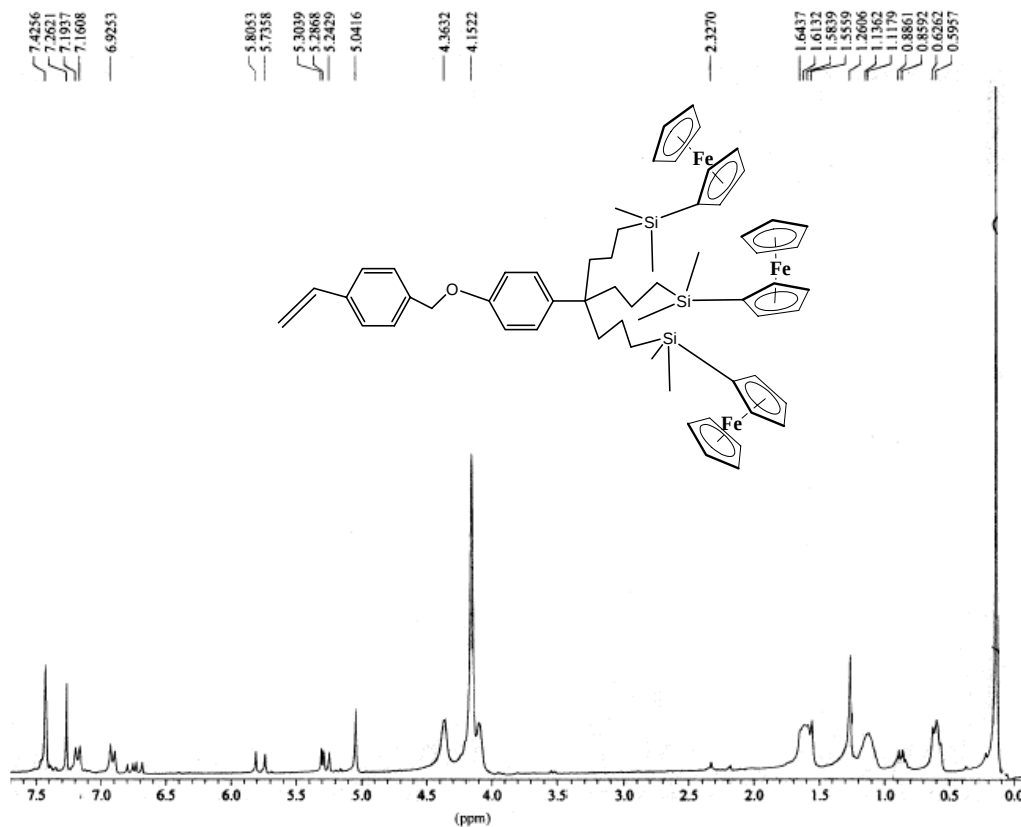
Ferrocenyl Dendronized Polymers

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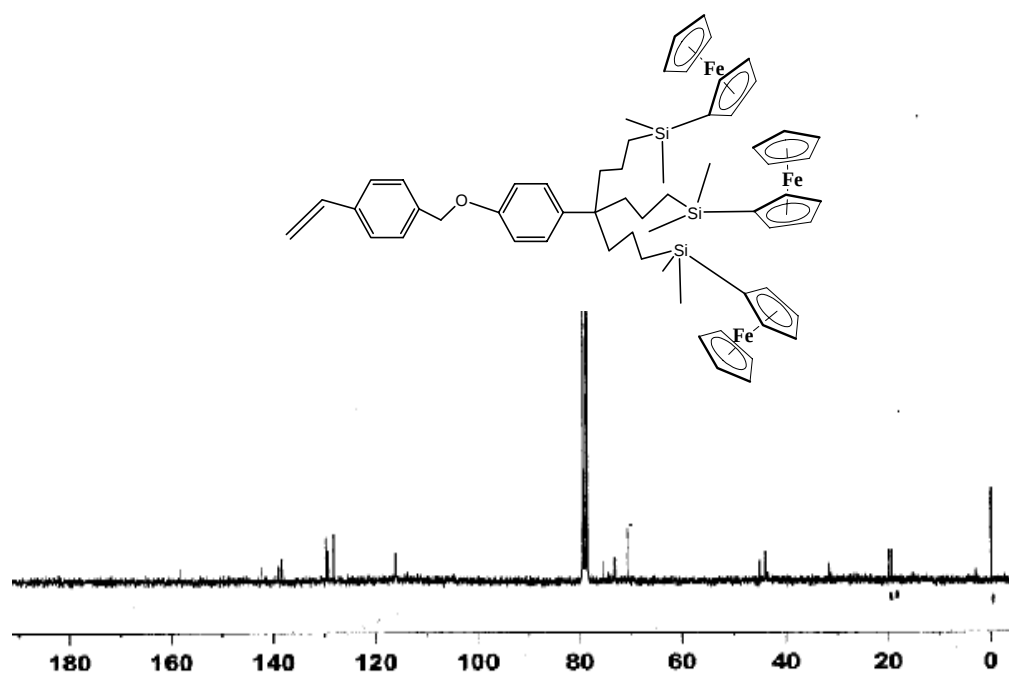
Supplementary Information

¹H NMR 300 MHz (CDCl₃) of 4	SI2
¹³C NMR 75.47 MHz (CDCl₃) of 4	SI2
MALDI-TOF of 4	SI3
¹H NMR 300 MHz (CDCl₃) of 5	SI3
¹³C NMR 75.47 MHz (CDCl₃) of 5	SI4
2 D NMR COSY : HC : Correlation of 5	SI4
¹H NMR 300 MHz (CDCl₃) of 7	SI5
¹³C NMR 75.47 MHz (CDCl₃) of 7	SI5
¹H NMR 300 MHz (CDCl₃) of 8	SI6
¹³C NMR 75.47 MHz (CDCl₃) of 8	SI6
SEC of 8	SI7
¹H NMR 300 MHz (CDCl₃) of 9	SI7
¹³C NMR 75.47 MHz (CDCl₃) of 9	SI8
Infra Red Spectrum of 9	SI8
SEC of 9	SI9
¹H NMR 300 MHz (CDCl₃) of 10	SI9
¹³C NMR 75.47 MHz (CDCl₃) of 10	SI10
Infra Red Spectrum of 10	SI10
SEC of 10	SI11
Calcul of the number of Fc per polymer 10 by cyclic voltammetry	SI11
Cyclic Voltammetry of Pt electrode modified with 10	SI12

^1H NMR 300 MHz (CDCl_3) of 4



^{13}C NMR 75.47 MHz (CDCl_3) of 4



MALDI-TOF Mass Spectrometry of 4

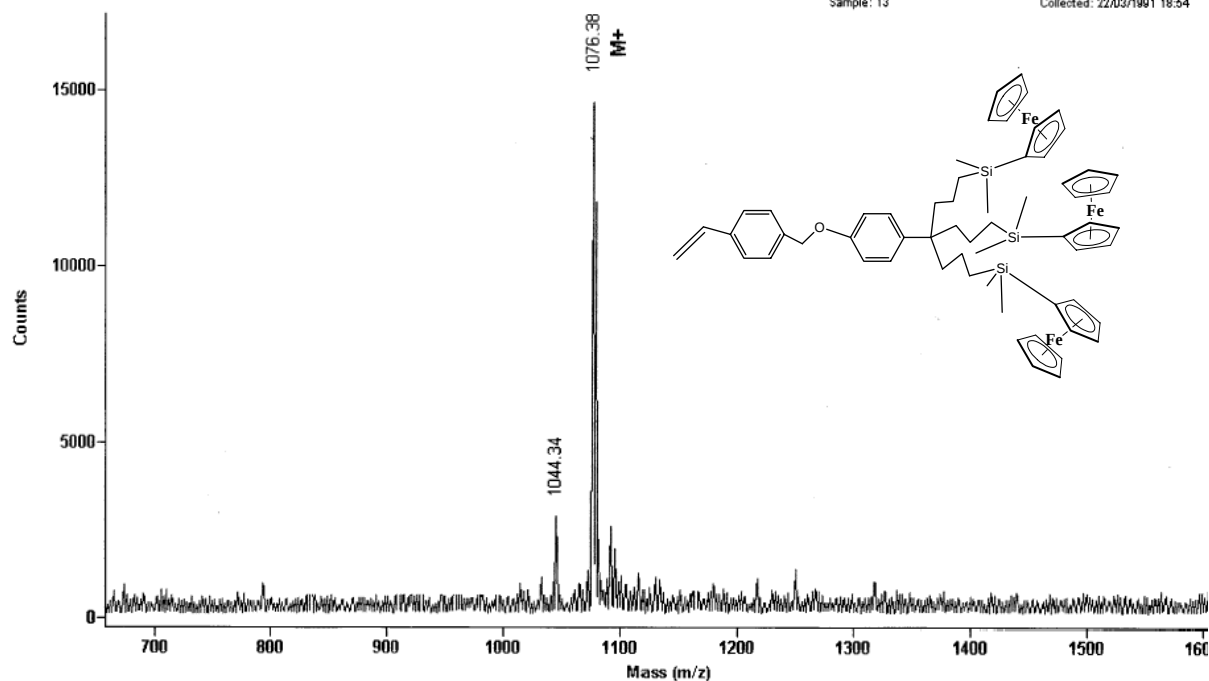


UPMC - LCSOB

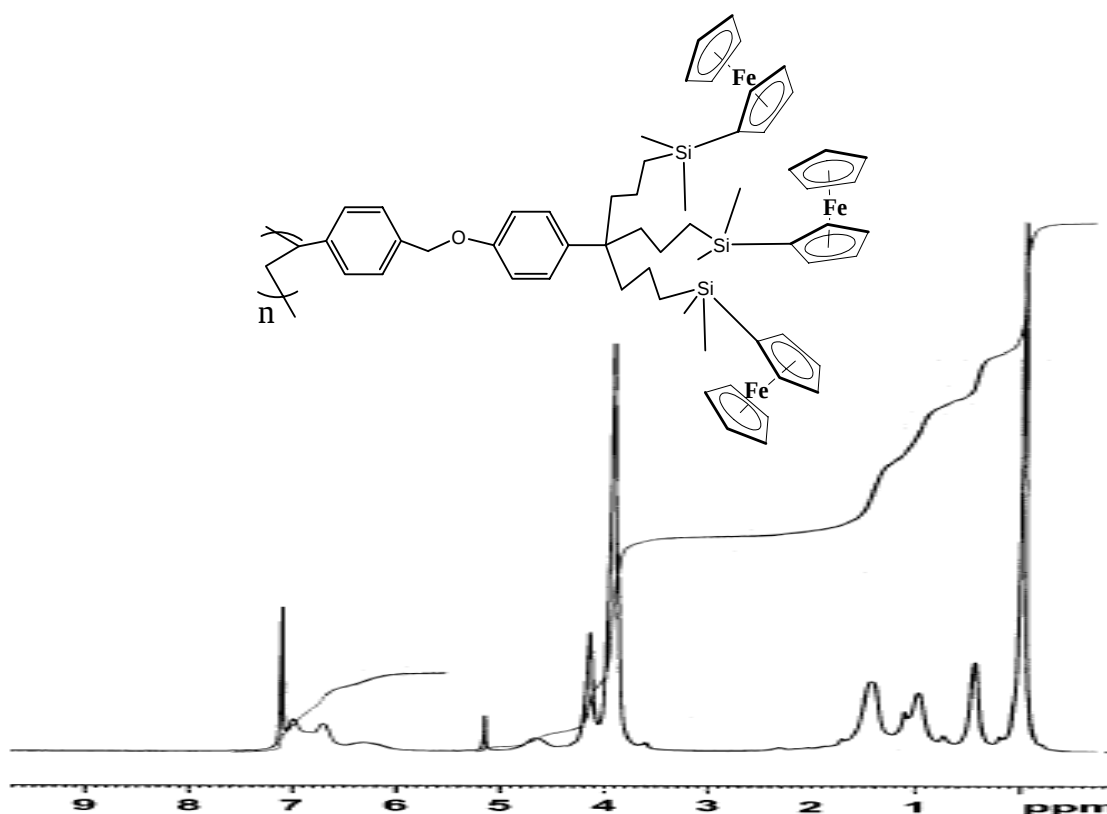
Original Filename: c:\voyager\data\cb\ast0404110055004.ms
This File # 1 : D:\MESDOC-1\DATA20\AST0404110055004.MS
Comment: aa 19-1 - DHB

Method: RDEHCCA
Mode: Reflector
Accelerating Voltage: 20000
Grid Voltage: 60.000 %
Guide Wire Voltage: 0.050 %
Delay: 125 ON
Sample: 13

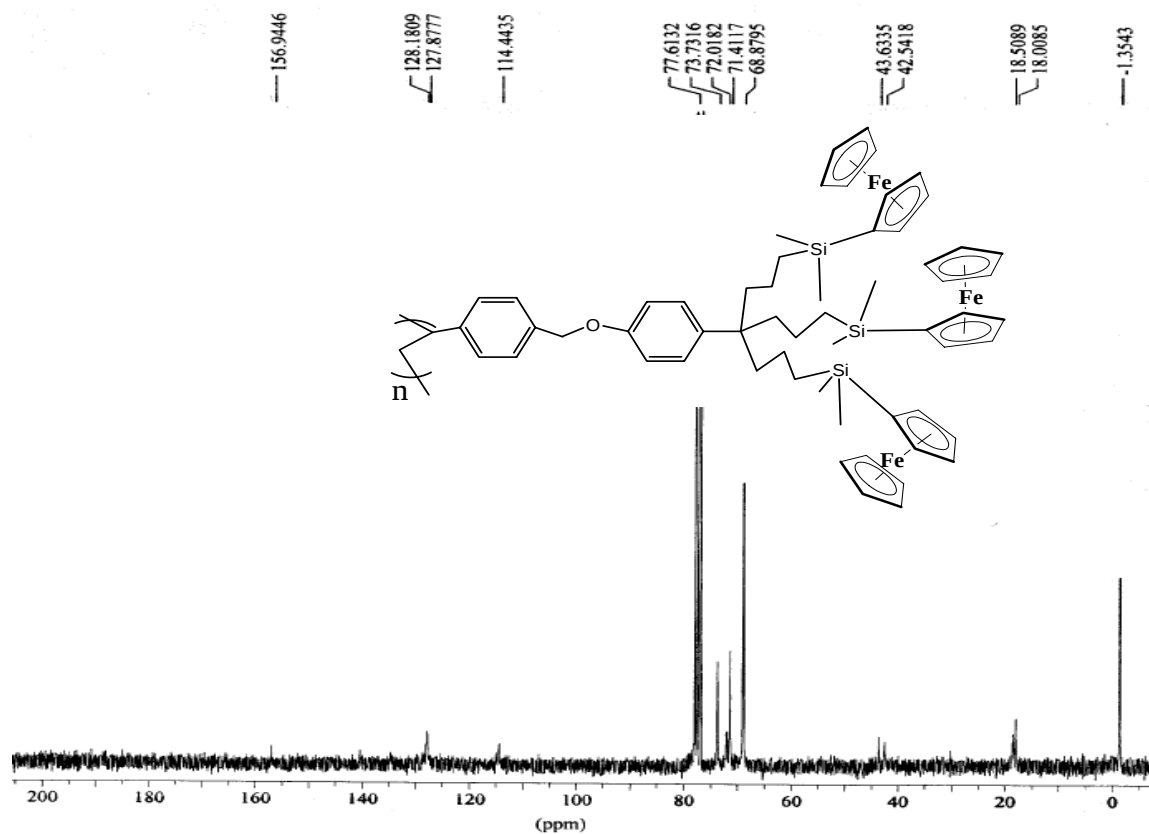
Laser: 2950
Scans Averaged: 156
Pressure: 9.81e-08
Low Mass Gate: 100.0
Timed Ion Selector: 2080.0 OFF
Negative Ions: OFF
Collected: 22/03/1991 18:54



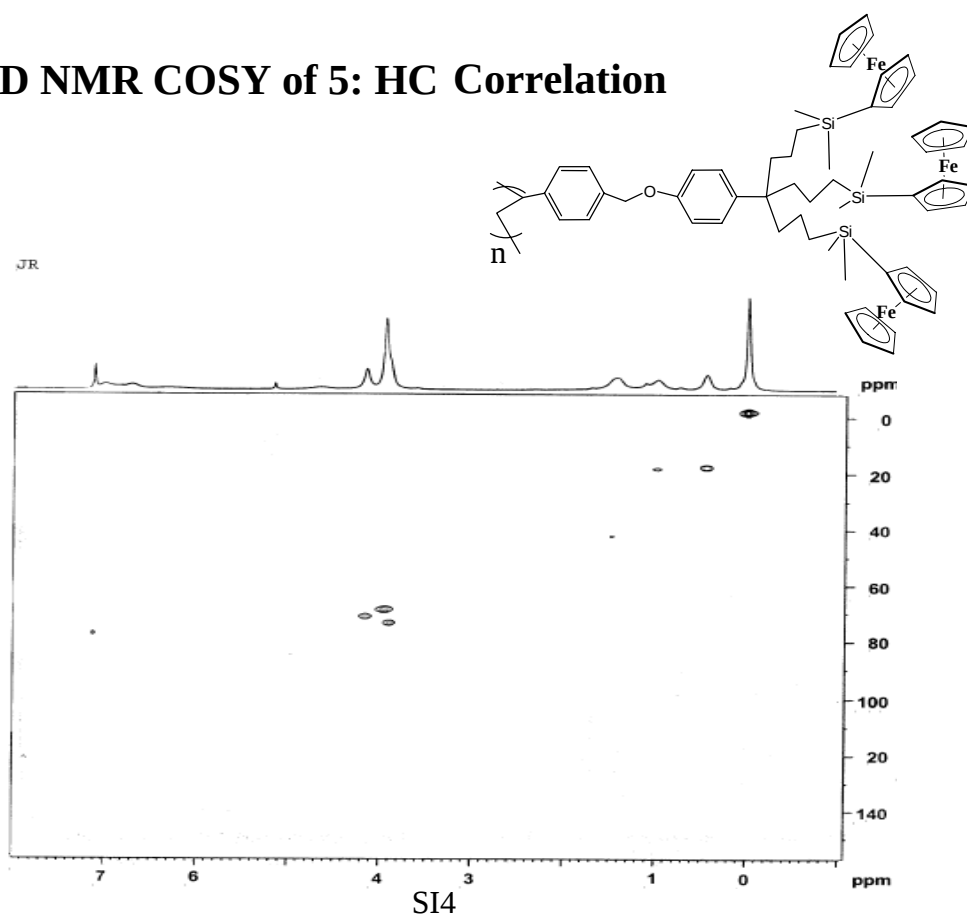
^1H NMR 300 MHz (CDCl_3) of 5



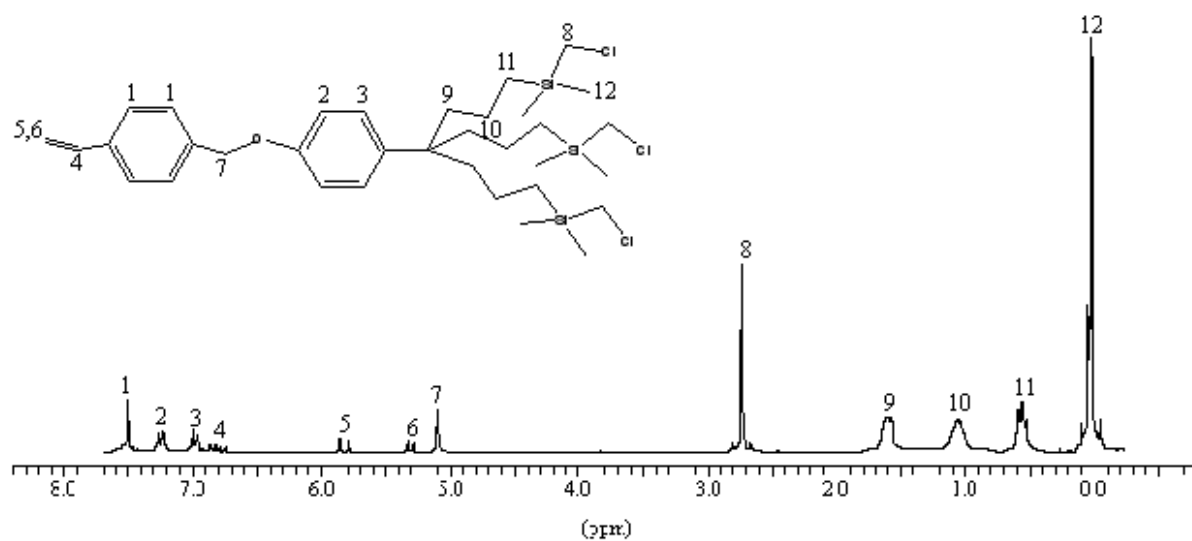
^{13}C NMR 75.47 MHz (CDCl_3) of 5



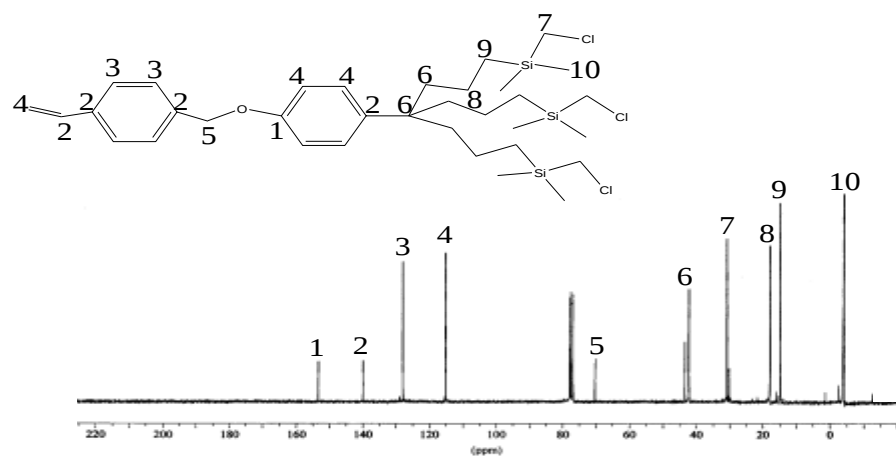
2D NMR COSY of 5: HC Correlation



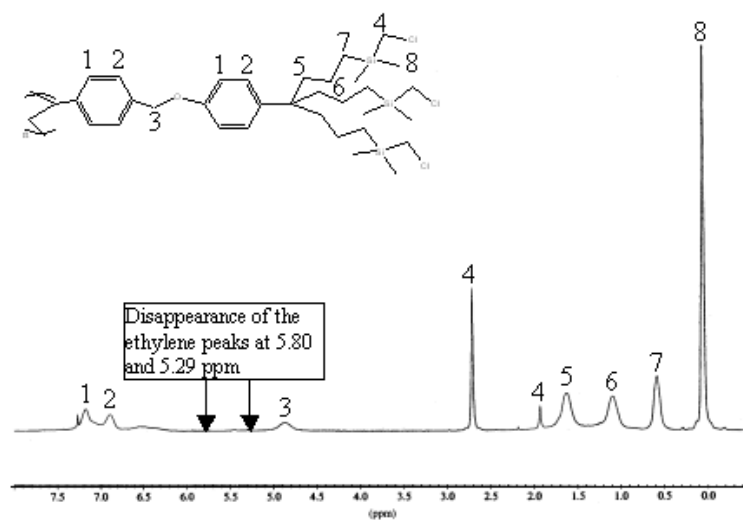
¹H NMR of 7



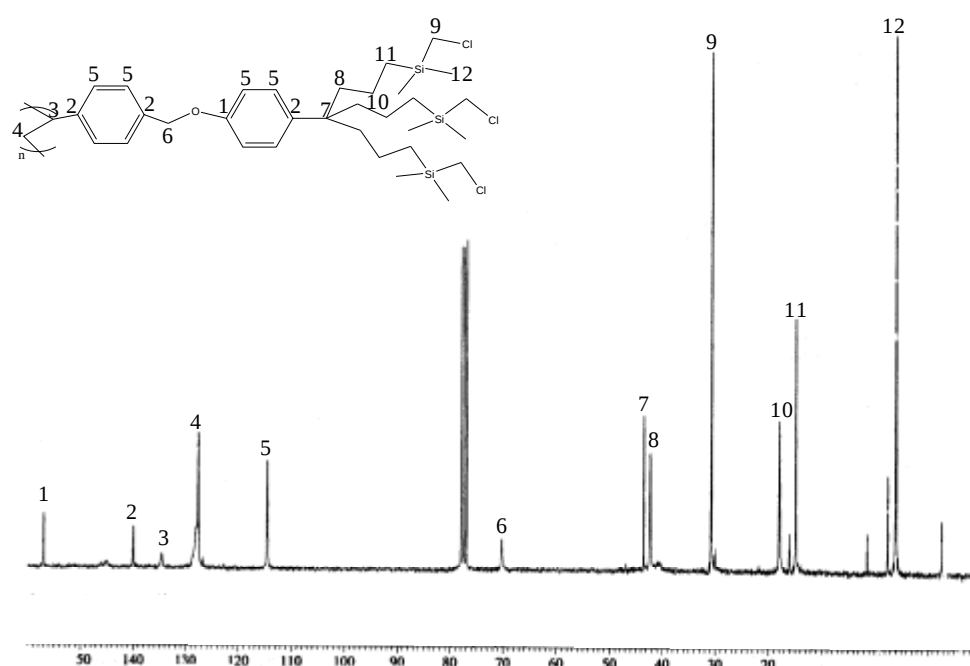
¹³C NMR of 7



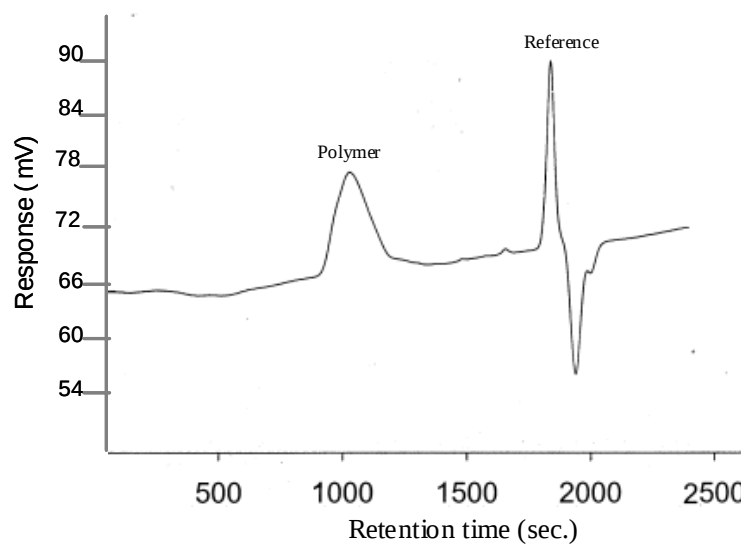
^1H NMR of 8



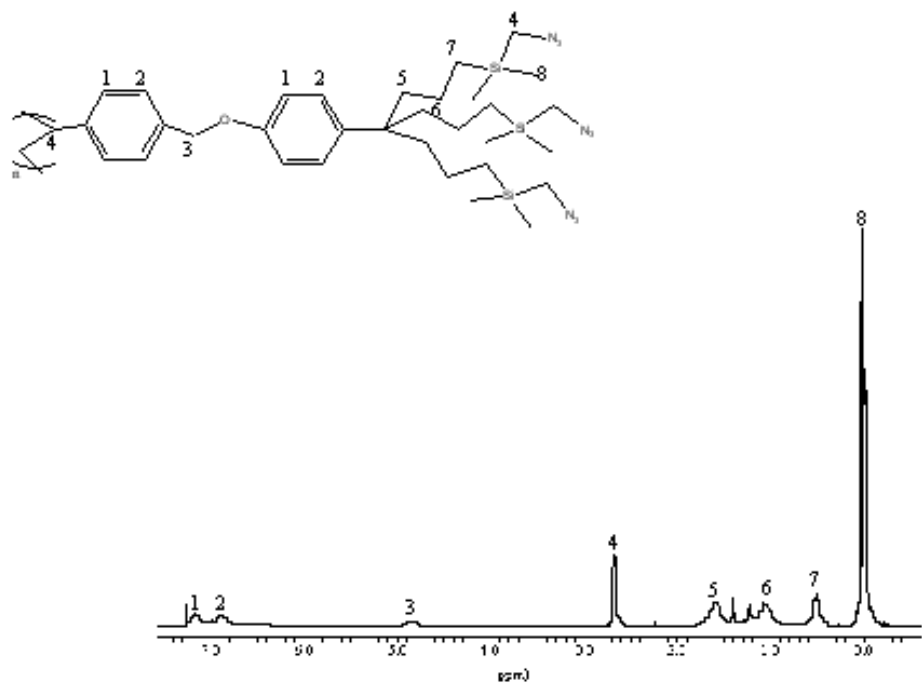
^{13}C NMR of 8



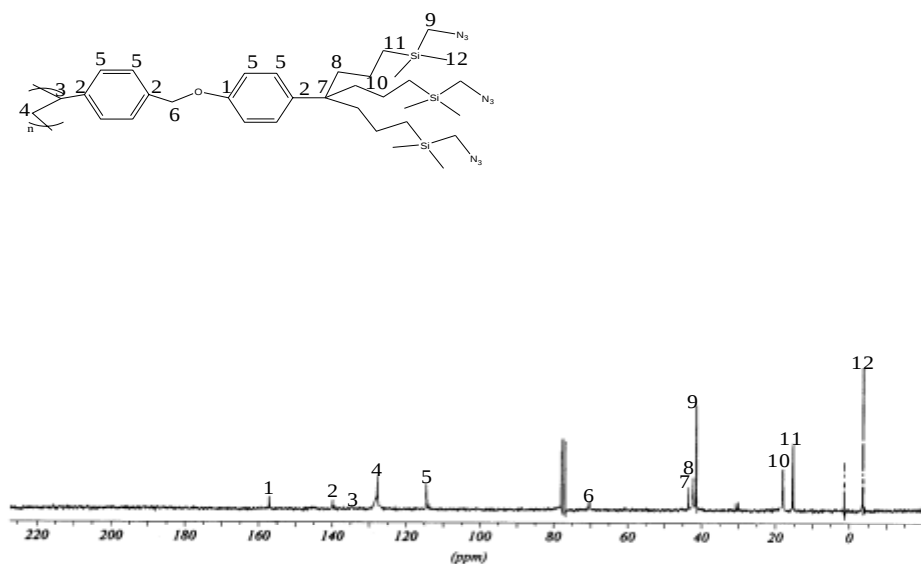
SEC of 8



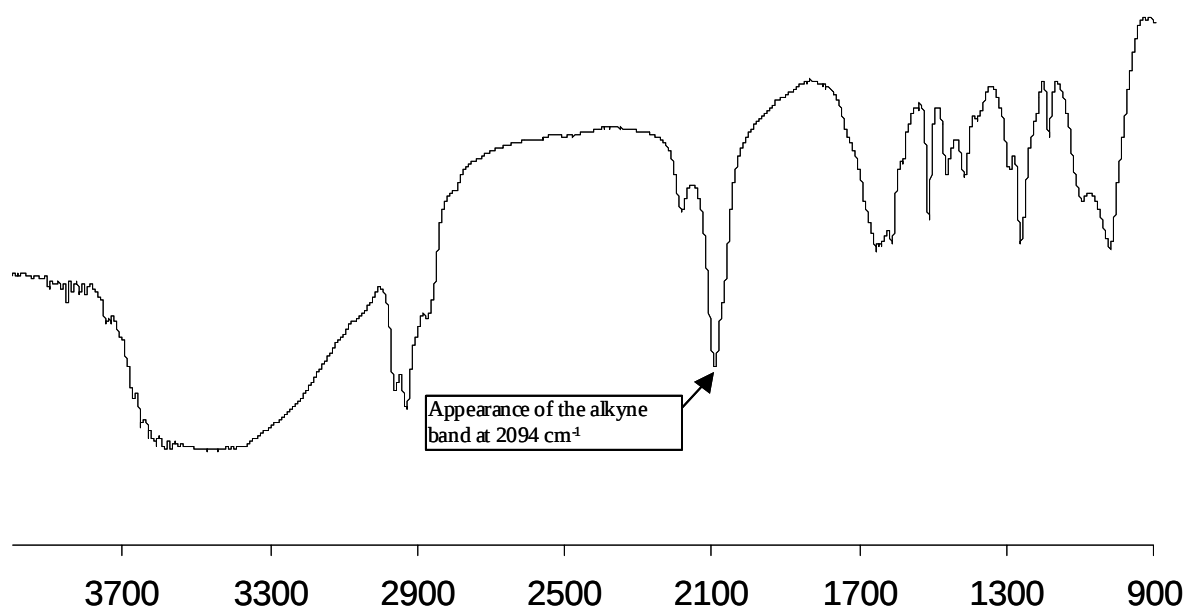
¹H NMR of 9



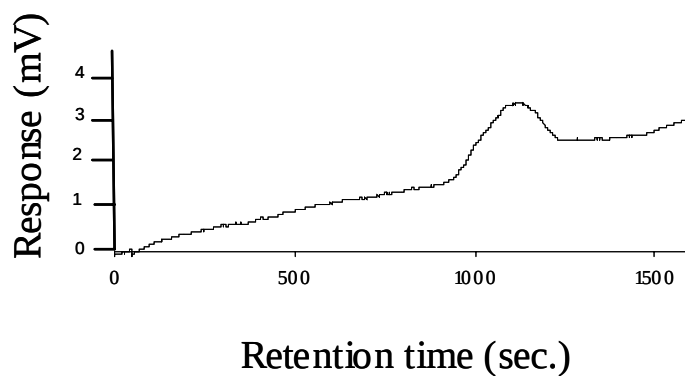
^{13}C NMR of 9



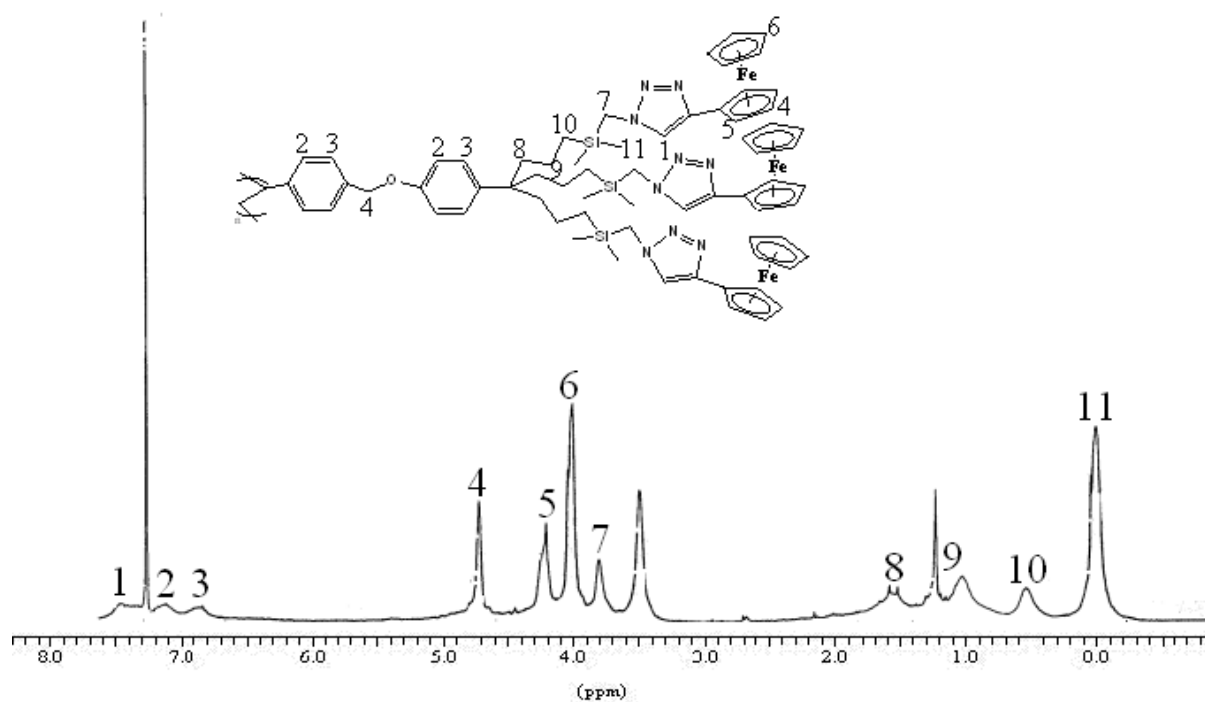
IR of 9



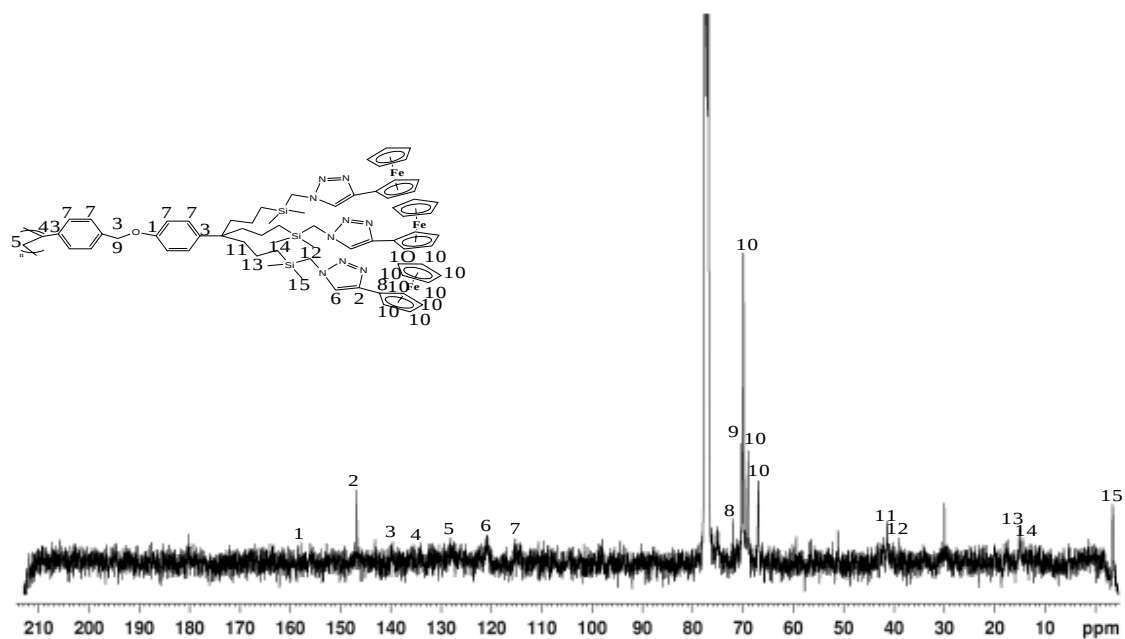
SEC of 9



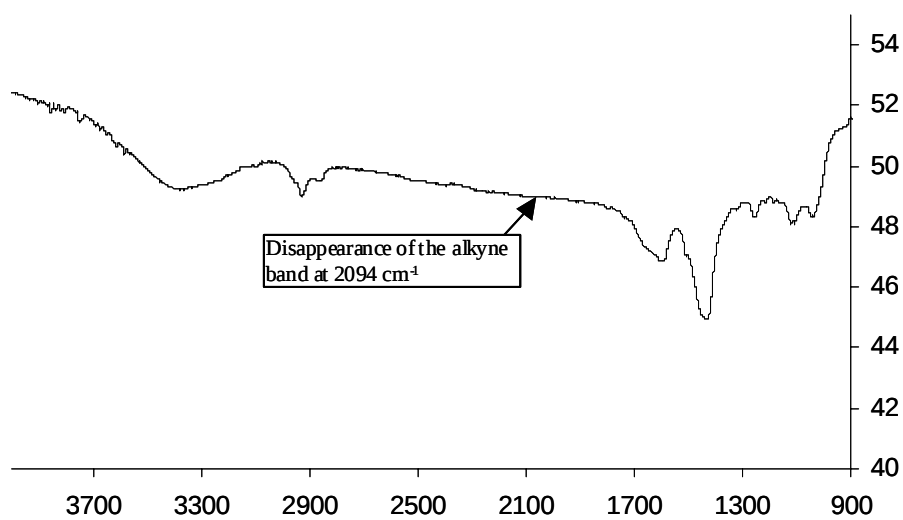
^1H NMR of 10



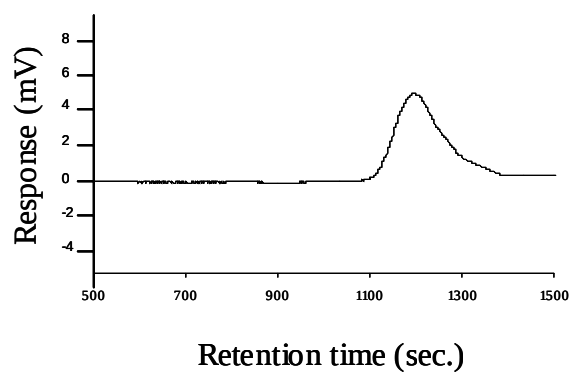
^{13}C NMR of 10



IR of 10



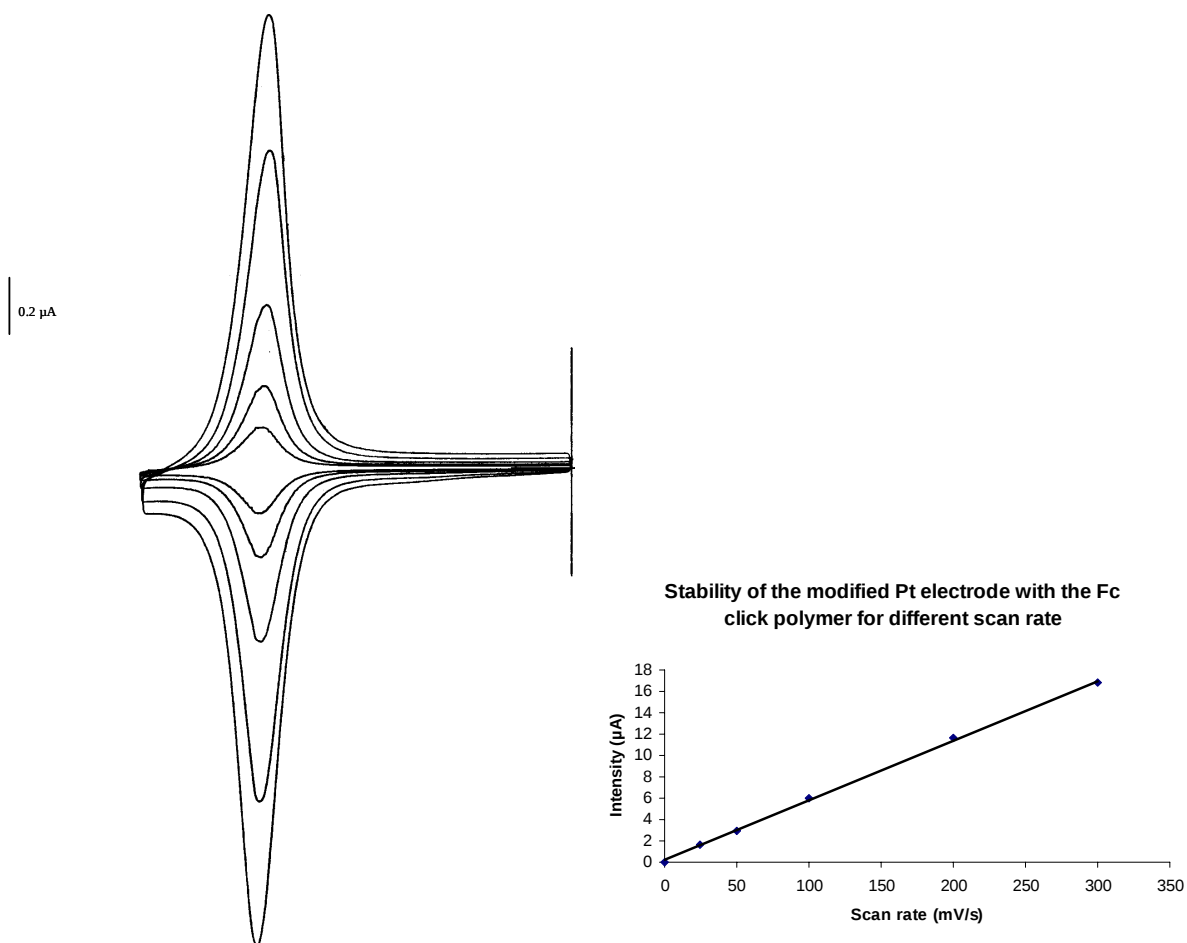
SEC of 10



Calcul of the number of Fc per polymer 10 by cyclic voltammetry

i (poly)	1,2
i (Fc)	1,6
MM (poly)	67320
MM (Fc)	326
theoric number of dendrons <i>per</i> polymer	51
m (poly)	0,0015
m (Fc)	0,000336
n (poly)	2,22816E-08
n (Fc)	1,03067E-06
(Mp/MFc) ^{0.275}	4,331165604
ip/np	53856000
if/cf	1552380,952
ratio of i	34,69251534
number of calculated Fc by cyclic voltammetry	150,2590291
theoric number of Fc <i>per</i> polymer	153

Stability of the Pt electrode with 10 for different scanning rate



Different scanning rate from smaller to larger at 25 mV/s, 50 mV/s, 100 mV/s, 200 mV/s and 300 mV/s