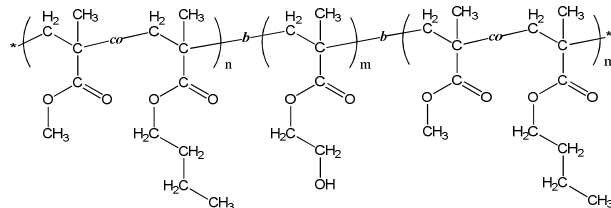


Sample Name: Poly(Methyl methacrylate-co-n-Butyl methacrylate random-b-2-Hydroxy ethyl methacrylate-b-Methyl methacrylate-co-n-Butyl methacrylate random)

Sample #: P40454-MMAnBuMAran-b-HEMA-b-MMAnBuMAran

Structure:



Composition:

$M_n \times 10^3$	PDI
MMAnBuMAran-b-HEMA-b-MMAnBuMAran 14.5-b-23.0-b-10.0	1.22

MMA:nBuMA (mol%):	54:46
MMA:nBuMA (wt%):	46:54
Glass transition temperature, T_g (average):	92 °C

Synthesis Procedure:

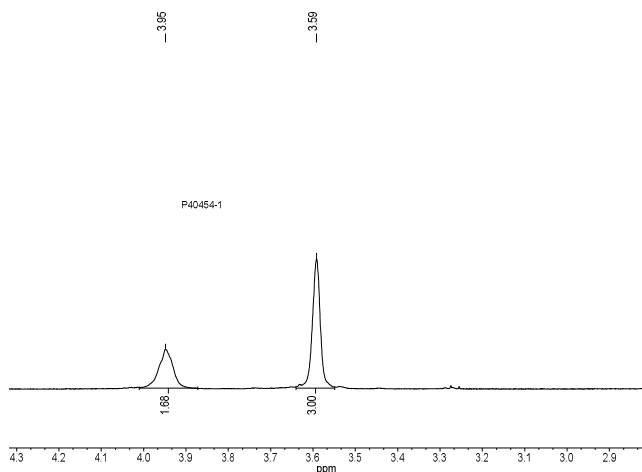
The polymer was synthesized by anionic process by sequential addition of monomers.

Characterization:

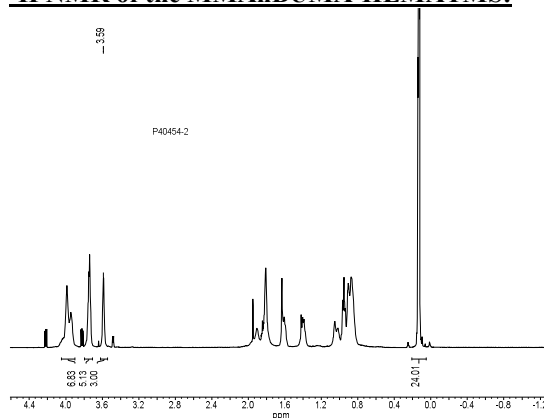
The polymer was characterized by $^1\text{H-NMR}$ and size exclusion chromatography (SEC).

Thermal analysis of the sample was done on a TA Q100 differential scanning calorimeter (DSC) at a heating rate of 10°C/min. The glass transition temperature (T_g) was determined as a midpoint of step change in heat flow curve for the second heating scan.

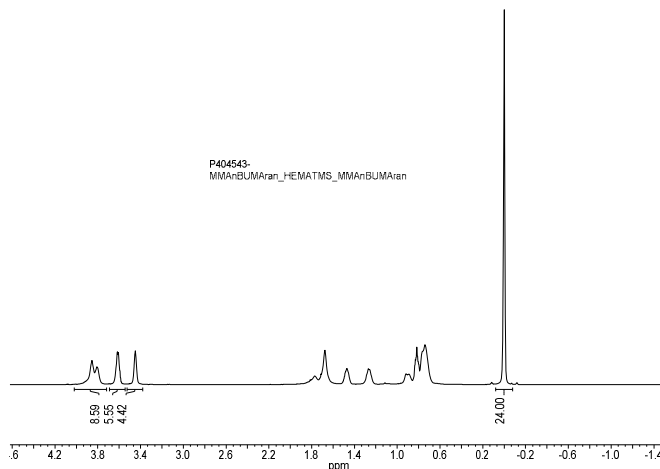
$^1\text{H NMR}$ of the First Block



$^1\text{H NMR}$ of the MMAnBUMA-HEMATMS:



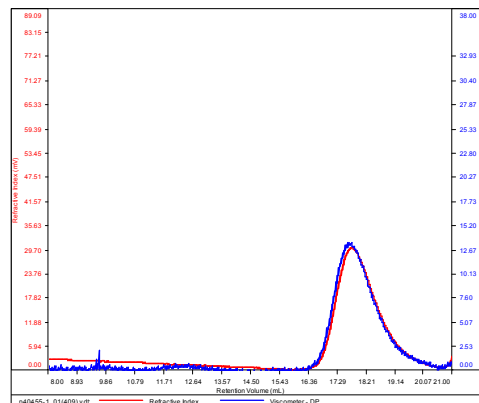
$^1\text{H NMR}$ of the MMAnBUMAran-HEMATMS-MMAnBUMran:



SEC elugram of the First Block:

P40454-1-MMAnBUMAran

Conc (mg/mL)	4.3393
dn/dc (mL/g)	0.0650
Method	PS80k, December-2016-0004.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS

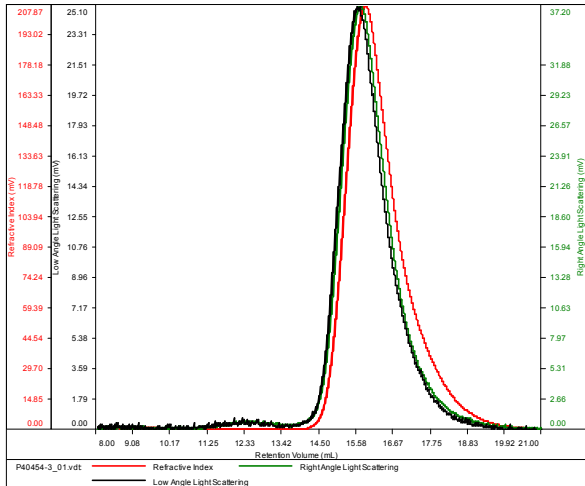


Sample	M_n	M_w	M_p	M_w/M_n	IV
p40455-1_01(400).vcl	14,575	15,327	13,676	1.062	0.0616

SEC elugram of the MManBUMAran-HEMATMS-MManBUMran:

P40454-3-MManBUMAran-HEMATMS-MManBUMA

Conc (mg/mL)	33.8513
dn/dc (mL/g)	0.0650
Method	PS80k_December-2016-0004.vcm
Solvent	DMF w0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40454-3_01.vdt	55,816	60,574	59,828	1.085	0.1303

DSC thermogram of deprotected triblock copolymer (2nd heating scan, 10°C/min):

Sample: P40454_MManBuMA-HEMA-MManBuMA
Size: 13.5000 mg
DSC
File: P40454_MManBuMA-HEMA-MManBuMA.001

