

Agilent GPC/SEC Software Sample GPC Analysis Report



Agilent Technologies

SMAh - Attempt 3 Partial (T2)

Workspace Details

Workspace name Poly lactide
Location C:\ProgramData\Agilent Technologies\GPC\Workspaces\Poly lactide\
Comments
Created by Administrator at 13:44:31 on 15 June 2015

Sample Properties

Sample name SMAh - Attempt 3 Partial (T2)
File name ICF_23_10_2019-0020.sample
Collected by GPC at 12:37:44 on 25 October 2019
Instrument name Instrument 1

Column Calibration Details

Name 2019-09-04-001
Created by GPC at 14:07:12 on 04 September 2019
Last modified by GPC at 11:29:11 on 05 September 2019
Comments GPC Column Calibration created 04 September 2019 by GPC
GPC Column Calibration amended 04 September 2019 by GPC
GPC Column Calibration amended 04 September 2019 by GPC
GPC Column Calibration amended 05 September 2019 by GPC

Calibration Type	Narrow Standard	Curve Fit Used	3
Calibration Curve	$y = -0.001893x^3 + 0.08308x^2 - 1.575x + 15.25$		
High Limit MW RT (mins)	11.01667	Low Limit MW RT (mins)	18.05000
High Limit MW (g/mol)	299400	Low Limit MW (g/mol)	580
Flow Rate Marker Name		Flow Marker RT (mins)	0.00000
K (Input) ((10e-5) dL/g)	14.100		
Alpha (Input)	0.700		
Residual Sum Of Squares	0.0019617	Corrected Sum Of Squares	7.33781
Coeff. Of Determination	0.999733	Standard Y Error Estimate	0.0180818
Linear Correlation Coeff	-0.99969		

Column Calibration Data Points

Point	Peak Max RT (mins)	MW	Log MW	Point in Use?	Percent Error
1	11.01667	299400	5.48	Yes	3.98
2	11.60000	151700	5.18	Yes	-7.49
3	12.61667	66350	4.82	Yes	2.74
4	13.21667	38100	4.58	Yes	-0.72
5	14.03333	19880	4.30	Yes	2.92
6	14.83333	9920	4.00	Yes	-0.25
7	15.66667	4920	3.69	Yes	-0.92
8	16.50000	2360	3.37	Yes	-3.08
9	17.26667	1260	3.10	Yes	2.78
10	18.05000	580	2.76	Yes	-0.47

Analyst:

Date:

Checked By:

Date:

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Processing Parameters

Method Last modified by Administrator at 13:44:30 on 15 June 2015
 Using Flow Rate Correction No
 Mark-Houwink K ((10e-5) dL/g) 14.100
 Mark-Houwink Alpha 0.700
 Concentration Detector Used in Analysis RI
 Injection volume (µL) 100.00
 Flow rate (mL/min) 1.00

MW Ranges Method

Calculate MW Ranges No

Percentage Fractions Method

Calculate Percentage Fractions No

Results

Analysed by GPC at 16:26:35 on 25 October 2019
 Comments

Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	8543	8325	8887	9472	10046	9385	1.068
Peak 2	1813	1647	1812	1975	2136	1951	1.1

Peak Information

	Start (mins)	End (mins)
Baseline region 1	2.01667	10.41667
Peak 1	14.40000	15.61667
Peak 2	16.00000	17.93333

Peak Trace Information

Peak	Trace	Peak Max RT (mins)	Peak Area (mV.s)	Peak Height (mV)
Peak 1	RI	15.01667	36.809	0.698
Peak 1	VS DP	15.00000	33.438	0.724
Peak 1	VS IP	15.06667	3.021	0.278
Peak 1	LS 90°	14.90000	10.040	0.196
Peak 1	LS 15°	15.05000	11.251	0.178
Peak 2	RI	16.83333	1305.227	26.494
Peak 2	VS DP	16.81667	354.722	7.228
Peak 2	VS IP	16.71667	10.139	0.396
Peak 2	LS 90°	16.78333	100.477	2.068
Peak 2	LS 15°	16.80000	56.816	0.953

Analyst:

Date:

Checked By:

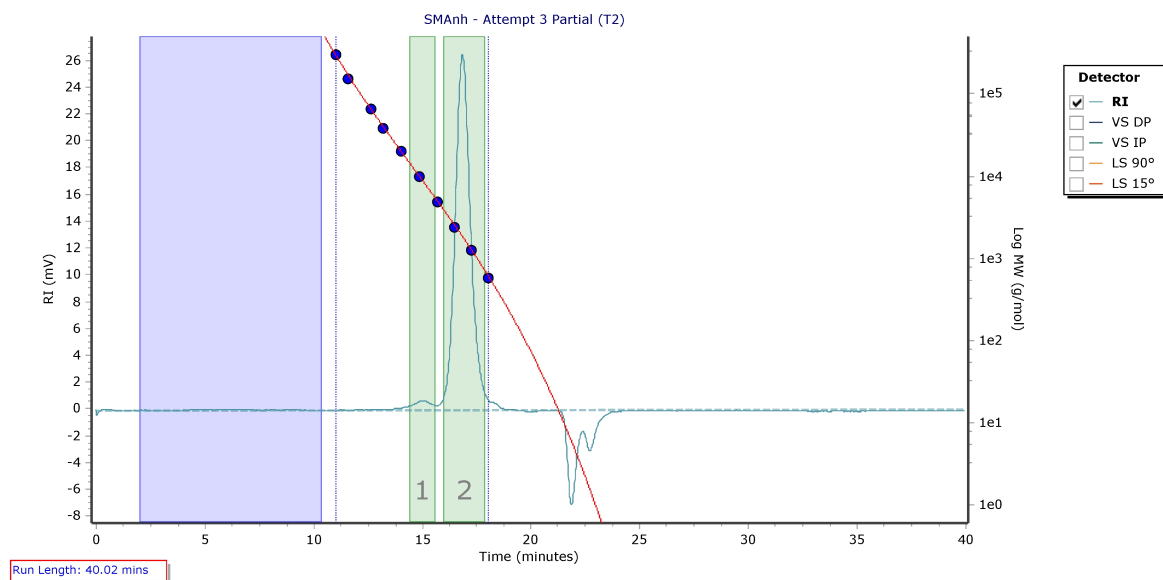
Date:

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Chromatogram Plot



Analyst:

Date:

Checked By:

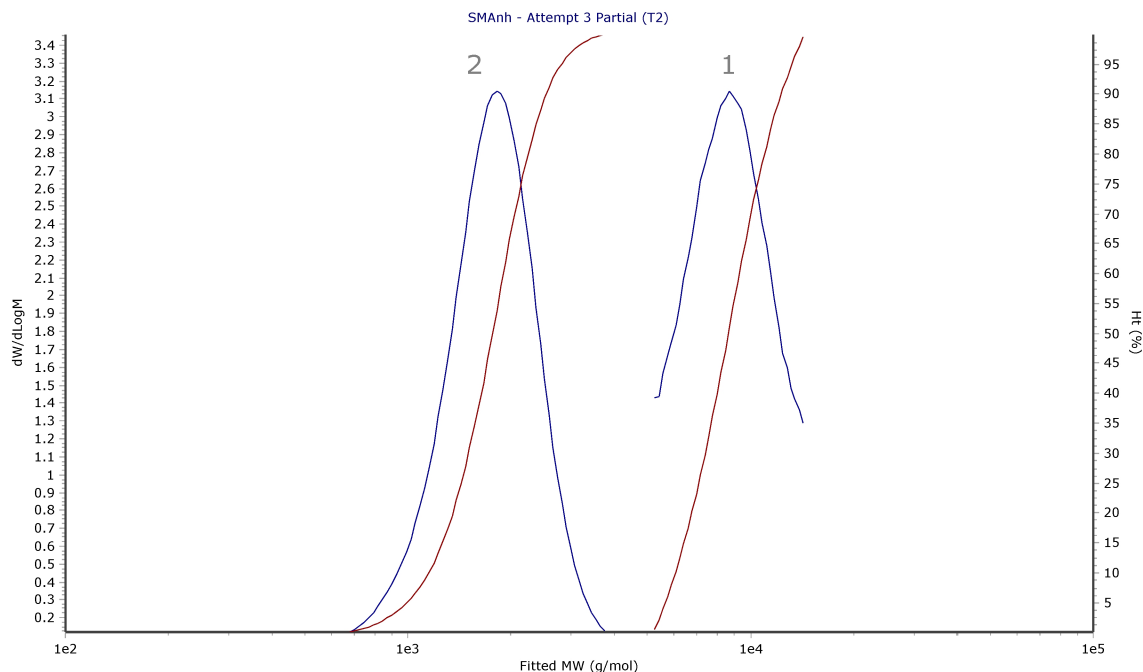
Date:

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Distribution Plot



Analyst:

Date:

Checked By:

Date: