



**Order No:** F180983241  
**Project No:** 1000444080  
**File No:** E363547  
**Vol No:** 1  
**Issue Date:** 2018-05-12

## Follow-up Sample Test Report

**Contact:** MR. HUANG YUN

**Customer Name:** Shanghai zhe Xu Environmental Protection Technology Co., Ltd.  
**Address:** Fengxian Industrial Park, Shanghai

201499CN

**Manufacturer:** Shanghai zhe Xu Environmental Protection Technology Co., Ltd.

**Address:** Fengxian Industrial Park, Shanghai

201499CN

**Product Category:** QMFZ2

**Product Description:** Plastics - component

**Model Number(s):** 586-AB

**Inspection Date:** 2018-04-08

**UL Contact:** CINDY S. WU at +886277373669, Ext. 2669, or via email at FUSAdmin.TPI@ul.com.

### Statement of Results

#### General Information for FUS Project

Test Name	Test Result
Model No.	586-AB
Color	NC
Form	Bar
Expected Thickness	1.7 mm
IR Reference Date	T05-26-14
TGA Reference Date	T01-26-14
DSC Reference Date	T05-26-14
Original 94V Flame Rating	V-0



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### Master Reporting Summary 1.7 mm

Test Name	Test Result
UL94 (50 W-20 mm) Vertical Burning	V-0
UL746A Infrared Spectroscopy (IR)	Yes
UL746A Thermogravimetry (TGA)	Yes
UL746A Diff. Scanning Calorimetry (DSC)	Yes

### FUS Infrared Spectroscopy

Test Name	Test Result
IR Conformance	Yes

### FUS TGA Analysis

Test Name	Test Result
TGA Conformance	Yes

### FUS DSC Analysis

Test Name	Test Result
DSC Conformance	Yes

### 50W (20 mm) Vertical Burning Test (As Received) 1.7 mm

Test Name	Test Result
Specimen Number	1
Thickness	1.638 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen dripped particles, which did NOT ignite cotton
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen dripped particles, which did NOT ignite cotton
Afterflame + Afterglow Time (T2 + T3)	0.0 s



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**50W (20 mm) Vertical Burning Test (As Received) 1.7 mm**

Test Name	Test Result
Specimen Number	2
Thickness	1.690 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen dripped particles, which did NOT ignite cotton
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen dripped particles, which did NOT ignite cotton
Afterflame + Afterglow Time (T2 + T3)	0.0 s

**50W (20 mm) Vertical Burning Test (As Received) 1.7 mm**

Test Name	Test Result
Specimen Number	3
Thickness	1.745 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen dripped particles, which did NOT ignite cotton
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen dripped particles, which did NOT ignite cotton
Afterflame + Afterglow Time (T2 + T3)	0.0 s

**50W (20 mm) Vertical Burning Test (As Received) 1.7 mm**

Test Name	Test Result
Specimen Number	4
Thickness	1.641 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen dripped particles, which did NOT ignite cotton
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen dripped particles, which did NOT ignite cotton
Afterflame + Afterglow Time (T2 + T3)	0.0 s



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**50W (20 mm) Vertical Burning Test (As Received) 1.7 mm**

Test Name	Test Result
Specimen Number	5
Thickness	1.605 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen dripped particles, which did NOT ignite cotton
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen dripped particles, which did NOT ignite cotton
Afterflame + Afterglow Time (T2 + T3)	0.0 s

**50W (20 mm) Vertical Burning Test (Oven-Aged) 1.7 mm**

Test Name	Test Result
Specimen Number	1
Thickness	1.586 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen dripped particles, which did NOT ignite cotton
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen dripped particles, which did NOT ignite cotton
Afterflame + Afterglow Time (T2 + T3)	0.0 s

**50W (20 mm) Vertical Burning Test (Oven-Aged) 1.7 mm**

Test Name	Test Result
Specimen Number	2
Thickness	1.640 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen dripped particles, which did NOT ignite cotton
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen dripped particles, which did NOT ignite cotton
Afterflame + Afterglow Time (T2 + T3)	0.0 s



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**50W (20 mm) Vertical Burning Test (Oven-Aged) 1.7 mm**

Test Name	Test Result
Specimen Number	3
Thickness	1.704 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen dripped particles, which did NOT ignite cotton
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen dripped particles, which did NOT ignite cotton
Afterflame + Afterglow Time (T2 + T3)	0.0 s

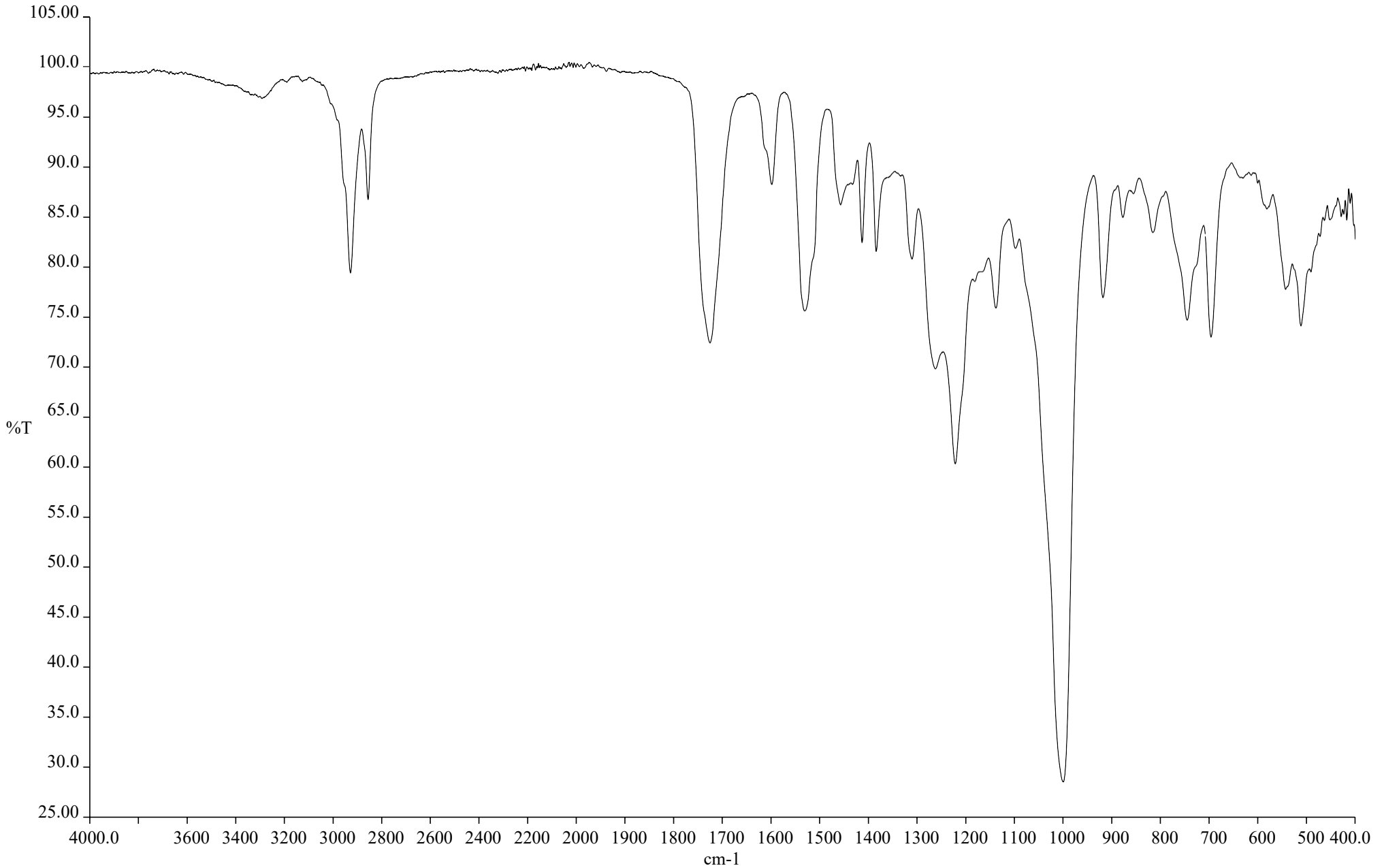
**50W (20 mm) Vertical Burning Test (Oven-Aged) 1.7 mm**

Test Name	Test Result
Specimen Number	4
Thickness	1.704 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen dripped particles, which did NOT ignite cotton
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen dripped particles, which did NOT ignite cotton
Afterflame + Afterglow Time (T2 + T3)	0.0 s

**50W (20 mm) Vertical Burning Test (Oven-Aged) 1.7 mm**

Test Name	Test Result
Specimen Number	5
Thickness	1.752 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen dripped particles, which did NOT ignite cotton
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen dripped particles, which did NOT ignite cotton
Afterflame + Afterglow Time (T2 + T3)	0.0 s

# IR



Description: E363547,FM-109,20,N,F,NC,B,20/56,CL.(surface side)

Instrument Model: Spectrum 100

Date Created: Wednesday, April 25, 2018 3:43 PM Taipei Standard Time

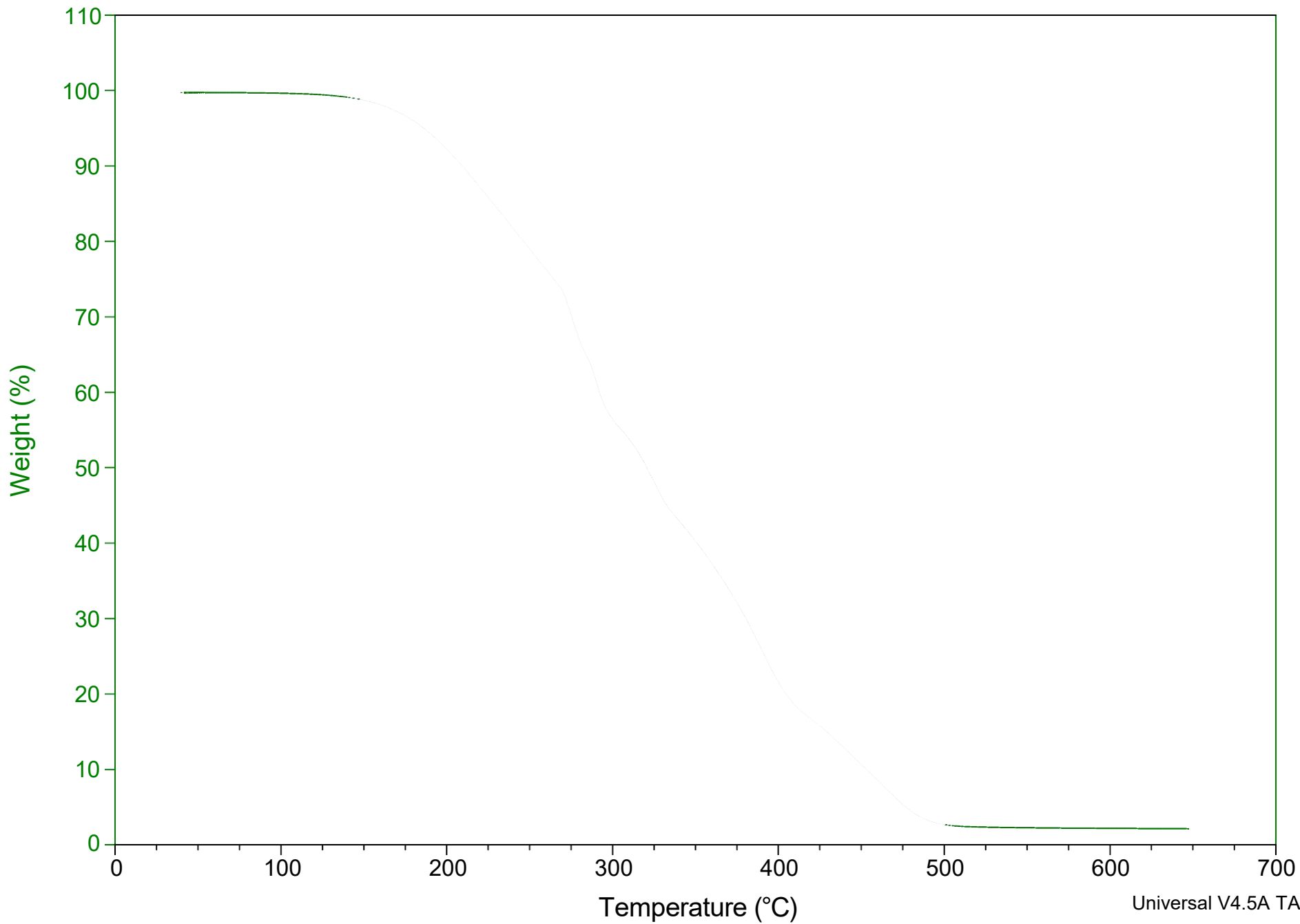
Accumulations: 16

Resolution: 4.00 cm-1

Sample: FM-109,PUR,NC  
Size: 21.0870 mg  
Method: 40°C-650°C@20°C/min  
Comment: E363547,20°C/56%RH

# TGA

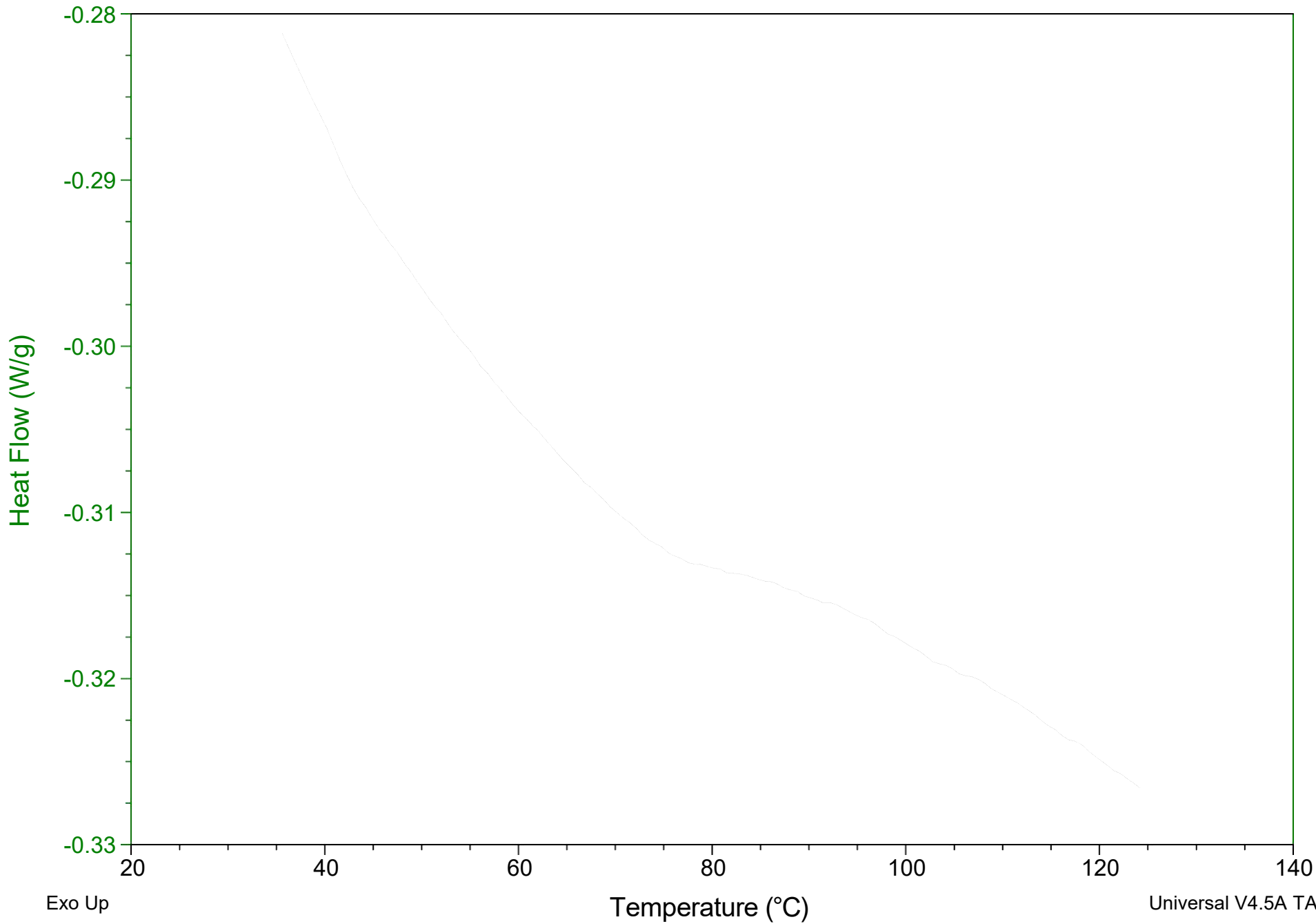
File: Z:\...\FUS\2018\F180983241\F180983241.TGT  
Operator: TT,T,N2@100CCM,WE029  
Run Date: 25-Apr-2018 20:03  
Instrument: TGA Q500 V20.13 Build 39



Sample: FM-109,PUR,NC  
Size: 2.2800 mg  
Method: 20oC/min-125oC  
Comment: E363547,21°C/58%RH

# DSC

File: Z:...\\2018\F180983241\F180983241R1.DST  
Operator: ES,T,N2@50CCM,DS004  
Run Date: 30-Apr-2018 10:44  
Instrument: DSC Q2000 V24.11 Build 124



Exo Up

Temperature (°C)

Universal V4.5A TA Instruments



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