This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-184

Section 4 **of** 4

Title: Final Report for Tank 241U107 & Push Mode Cores 129 & 134 & 135

Date: 07/26/1996 **Revision:** R001

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References: ECN-633311

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TRADEMARKS:

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NARRATIVE

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45-Day Safety Screening Results for Tank 241-U-107, Push Mode Cores 129, 134, and 135

SUMMARY

This is the 45-day safety screening report for rotary mode core samples taken from risers 9, 7, and 2 of tank 241-U-107 (U-107) from February 6, 1996 through March 28, 1996. The samples were received at the 222-S Laboratories from February 9, 1995 through April 2, 1996, and are undergoing analyses consistent with the safety screening data quality objective (DQO) (Dukelow et al. 1995), the organic safety program DQO (Turner et al. 1995), the historical DQO (Simpson and McCain 1995), and the compatibility DQO (Fowler 1995). All subsegments from the three cores obtained are being analyzed for those tests identified in the sampling and analysis plan (Raphael 1996), except in circumstances where insufficient material prevented the analysis. This interim report, however, only summarizes the results of the primary safety screening analyses: differential scanning calorimetry (DSC), thermogravimetric analysis (TGA), total alpha analysis, and density/specific gravity analyses. The remaining analyses shall be discussed in the final report for this project. In addition to the analytical requirements of above references, a test for flammable gas concentration was requested; the data from these measurements obtained by the field operations crews are also provided.

None of the data indicate that the tank is "unsafe" when compared to the criteria in the Safety Screening Data Quality Objective (Dukelow et al. 1995) with the exception of the energetic results for two samples (liquid samples). However, there is a high moisture content of greater than 45% in the liquid portion of the tank. The one-sided 95-percent confidence interval for total alpha results are well below the notification limit. Furthermore, the vapor in the tank U-107 dome space is far below the 25% lower flammability limit (LFL) stated in the SAP. Therefore, the results show that this tank may be considered "conditionally" safe.

Water solution with a lithium bromide tracer was used to soften the sample when the sampling crew encountered hard surfaces. However, no water solution blank was taken. If needed, the water solution blank data from the tank 241-U-109 sampling event may be used. Bromide analysis by ion chromatography (IC) and lithium analysis by inductively coupled plasma atomic emission spectroscopy (ICP) are being performed to determine the extent of water contamination in the samples. These results will be summarized in the final report for this analysis event.

SCOPE

This document serves as the 45-day report deliverable for the tank 241-U-107 core samples collected between February 6 and March 28, 1996. Each sample was received, extruded, and analyzed by the 222-S Laboratory in accordance with the SAP (Raphael 1996).

This report includes the primary safety screening results (tank headspace flammability, DSC, TGA, total alpha, and bulk density or specific gravity) and copies of all DSC and TGA raw data scans as requested per the SAP. Photographs of the extruded segments were taken and, although not included in this report, are available.

SAMPLE RECEIPT AND EXTRUSION

Eight segments per core were expected to be taken from this tank. Segment 1 was expected to be 26 cm (10 inches) in depth and 2 through 8 segments expected to be 48 cm (19 inches) in depth. However, the sampling crew encountered very hard surface at different levels for each core and the waste could not be further penetrated. Therefore, the three cores were only 3, 6, and 2 segments in legth.

Information on the receipt and extrusion of the core samples, including sampling date, sample receipt date, extrusion date, amount of sample, and sample description, is provided in Table 1. No separable organic liquid was observed in any of the segments, and no field blank was delivered to the 222-S Laboratory with this sampling event.

Table 1. Sample Receipt and Extrusion for Tank 241-U-107 Core Samples

Sample	Date Sampled	Date Received at Lab	Date Extruded	Sample Recovered	Sample Description
Core 129, Segment 1	02/06/96	02/09/96	02/13/96	Drainable Liquid: 266.8 g Lower Half Solid: 3.5 g	The drainable liquid was clear light yellow/ green in color. Estimated volume of the sample collected was 210 mL. Extruded approximately 0.5 inches of crystalline saltcake. The solids were light yellow in color. Solids were put into one jar.
Core 129, Segment 1R	02/09/96	02/09/96	02/13/96	None	N/A
Core 129, Segment 2	02/06/96	02/09/96	02/13/96	Drainable Liquid: 273.5 g Upper Half Solid: 75.1 g Lower Half Solid: 37.2 g	Extruded approximately 3 inches of solids. Solids were dark brown to black in color and texture resembled a wet saltcake. Solids were subsampled in half segments. Collected approximately 225 mL of drainable liquid. The liquid was dark brown in color and opaque.
Core 129, Segment 2R	02/09/96	02/09/96	02/13/96	None	N/A
Core 129, Segment 3	02/07/96	02/09/96	02/13/96	Upper Half Solid: 194.9 g Lower Half Solid: 179.1 g	Extruded approximately 15 inches of solids. Solids were light brown gray in color and the texture resembled a wet saltcake. Solids were subsampled in half segments.
Core 129, Segment 3R	02/09/96	02/15/96	02/20/96	Upper Half Solid: 163.2 g	Extruded approximately 7 inches of solids. Solids were medium gray in color and the texture resembled a crystalline saltcake. No drainable liquid.

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Sample	Date Sampled	Date Received at Lab	Date Extruded	Sample Recovered		Sample Description
Core 134, Segment 1	02/16/96	02/20/96	02/23/96	None		N/A
Core 134, Segment 2	02/16/96	02/20/96	02/23/96	Upper Half Solid:	249.2 g	Extruded approximately 12 inches of solids. Solids were white/grey in color and the texture resembled a dry saltcake. Solids were subsampled in one jar.
Core 134, Segment 3	02/16/96	02/20/96	02/27/96	Upper Half Solid:	143.9 g	Extruded approximately 6.5 inches of solids. Solids were medium gray in color and the texture resembled a saltcake.
Core 134, Segment 4	02/16/96	02/20/96	02/27/96	Lower Half Solid: Quarter Segment B: Quarter Segment A:	184.4 g 92.8 g 81.8 g	Extruded approximately 17.5 inches of solids. Facies was present, the lower section was black sludge and the upper section was dark gray saltcake. The solids were subsampled in quarter segments.
Core 134, Segment 5	02/16/96	02/20/96	02/27/96	Quarter Segment B: Quarter Segment A:	49.7 g 59.8 g	Extruded approximately 5 inches of solids. Solids were gray saltcake (lower section) and black sludge (upper section). Solids contained facies.
Core 134, Segment 5A	02/20/96	02/20/96	02/27/96	Quarter Segment A: Liner Liquid:	19.4 g 32.8 g	Extruded approximately 1 inch of solids. Solids were gray in color with some brown tint. The texture resembled a saltcake.
Core 134, Segment 5B	02/21/96	02/23/96	02/27/96	Drainable Liquid:	106.3 g	Collected approximately 70 mL of drainable liquid. The liquid was dark brown in color and opaque. No solids extruded other than those suspended in drainable liquid.
Core 134, Segment 6	02/21/96	02/23/96	02/27/96	None		N/A
Core 134, Segment 6A	02/26/96	02/27/96	03/01/96	Whole Segment: Drainable liquid: Liner Liquid:	29.3 g 89.6 g 16.8 g	Extruded approximately 6 inches of solids. Solids were light brown in color and texture resembled a wet saltcake. Collected approximately 70 mL of drainable liquid. The liquid was light brown in color and opaque.

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Sample	Date Sampled	Date Received at Lab	Date Extruded	Sample Recovered		Sample Description
Core 135, Segment 1	03/20/96	04/01/96	04/15/96	Upper Half Solid: Drainable Liquid:	1.4 g 94.1 g	Extruded approximately 1/2 inch of solids. Solids were dark brown in color and the texture resembled a wet sludge. The solids were subsampled in one jar. Collected approximately 50 mL of drainable liquid. The liquid was dark brown in color and opaque.
Core 135, Segment 1R	03/26/96	04/01/96	04/16/96	Whole segment: Drainable liquid:	4.0 g 342.6 g	Extruded approximately less than 0.25 inch of solids. Solids were yellow in color and a crystalline saltcake. Collected approximately 250 mL of drainable liquid. The liquid was yellow in color and clear.
Core 135, Segment 2	03/20/96	04/01/96	04/08/96	Upper Half Solid: Liner Liquid:	2.6 g 30.1 g	Extruded approximately 1/4 inch of solids. The solids were dark black in color and the texture resembled a wet saltcake.
Core 135, Segment 2A	03/22/96	04/01/96	04/16/96	Whole Segment: Drainable Liquid:	58.7 g 41.5 g	Extruded approximately 1 inch of solids. Solids were light brown in color and the texture resembled a saltcake. Collected approximately 25 mL of drainable liquid. The liquid was yellowish brown in color and opaque.
Core 135, Segment 2R	03/28/96	04/02/96	04/08/96	Upper Half Solid: Lower Half Solid:	111.0 g 116.6 g	Extruded approximately 10 inches of solids. Solids were light gray in color and the texture resembled a saltcake. No drainable liquid.

TANK HEADSPACE FLAMMABILITY

Prior to core sampling, the flammability of the tank headspace was measured to address the vapor flammability issue of the safety screening data quality objective (Dukelow et al. 1995). The tank vapor space was sampled periodically from February 6 through February 21, 1996 to determine the flammability of the vapor space gasses. Sampling was done through risers 7 and 9 in the dome space. The average combustible gas meter readings were between 0 to 4 percent of the LFL (attachment), indicating no flammability concerns with this tank.

ANALYTICAL RESULTS

Analytical results appear in the Sample Data Summary and a discussion of the results is presented below. Any deviations from the requirements of the SAP are noted in the following sections.

Thermogravimetric Analysis (TGA) Moisture

The weight percent water by TGA was performed under a nitrogen purge using either procedure LA-560-112, Rev B-1 on a Mettler TG 50 instrument or procedure LA-514-114, Rev. C-1 on a Perkin Elmer TGA 7 instrument.

Results ranged from 0.73 to 49.9 weight percent water for the solids. Drainable liquids ranged from 47.0 to 92.2 weight percent water. Three liner liquid sample were analyzed and the results ranged from 89.1 to 98.2 weight percent water. The weight percent water for sample S96T001070 (Core 134, Segment 6A) was 92%. The probable cause for the high water content in this sample is due to the contamination by the water solution.

All standards run with the samples had recoveries which fell within the required range of 90 to 110 percent. Ten subsegments had RPD values that exceeded the desired 10 percent criterion. No reruns were requested due to the heterogeneity of the samples.

Differential Scanning Calorimetry (DSC)

Differential scanning calorimetry analyses under a nitrogen purge were performed using either procedure LA-514-113, Rev. C-1 on a Mettler DSC 20 instrument or procedure LA-514-114, Rev. C-1 on a Perkin Elmer DSC 7 instrument. It should be noted that the DSC scans from these two instruments show exotherms differently; exotherms on the Perkin Elmer are shown as downward peaks while the Mettler shows them as upward peaks. Using the average percent water by TGA for each sample, dry weight basis results were calculated from the wet weight basis results. Both wet and dry results are given in the Sample Data Summary.

Sixteen out of twenty-eight of the waste samples showed no exotherm. Two of the twelve samples which had observable energetics had DSC exotherms that exceeded the action limit of 480 joules/g (dry weight basis) stated in the SAP (Raphael 1996) and the Safety Screening Data Quality Objective (Dukelow et al. 1995). Appropriate notifications of a limit violation were made.

For the two samples with DSC results above 480 joules/g, the upper limit of a one-sided 95% Confidence Interval were calculated (see attachment). The upper limit of the 95% Confidence Intervals were 674.0 to 678.0 joules/g (dry weight basis). For the other ten samples with DSC results above 0 joules/g, the upper limit of a one-sided 95% Confidence Intervals ranged from 16.6 to 467.8 joules/g (dry weight basis).

Standards run with the samples had recoveries which fell within the required range of 90 to 110 percent for all but two of the samples (112.5 and 113.9 percent). RPDs between the sample and duplicate sample analyses were below 10 percent for all but five of the samples. The RPDs for these five samples were ranged from 15.7 to 150 percent. No reruns were requested due to the heterogeneity of the samples.

Total Alpha

The total alpha analyses were performed using procedure LA-508-101, Rev. D-2. Solid samples were prepared by fusion prior to the total alpha analysis; the fusion was performed using procedure LA-549-141, Rev. D-0.

Individual sample and duplicate results ranged from 0.00243 μCi/g to 0.91 μCi/g in the solids. In the drainable liquid, the results ranged from less than values from <2.25E-03 to <1.72E-03 μCi/mL with only one value reported that was not a less than value (5.36E-03 μCi/mL). The low sample activities and high dissolved solids in the samples resulted in high RPDs and low spike recoveries for the tank U-107 samples. Six samples have spike recoveries out of range (from 66.0 to 87.2 percent) and 9 RPDs were above the 10 percent criterion with RPDs ranging from 11.3 to 56.1 percent. Thirteen standard recoveries were out of limits with values ranging from 110.9 to 119.5 percent.

The one-sided 95-percent upper confidence interval limit was calculated for samples where the total alpha results were above the detection limit. Results are presented in the attachment. The upper confidence intervals ranged from 2.40E-03 μCi/mL to 1.65E-02 μCi/mL for liquid samples and 3.20E-03 μCi/g to 1.71 μCi/g for solids. All of these results are well below the notification limit of 34.9 μCi/g; therefore, no reruns were requested.

Bulk Density and Specific Gravity

Bulk density measurements were performed on the solid samples using procedure LO-160-103, Rev. A-7, and specific gravity measurements were performed on the liquid samples using procedure LA-510-112, Rev. C-3.

Bulk densities of the solids ranged from 1.30 to 1.76 g/mL. Bulk density for sample S96T001046 (Core 134, Segment 6A) was 1.1 g/mL. The probable cause for low density is due to the water solution contamination. A density of 1.5 g/mL is assumed in converting the total alpha notification limit from g/L of plutonium to μCi/g. A value below 1.5 is conservative; therefore, the total alpha notification should be adjusted to 34.9 μCi/g (from density of 1.76 g/mL). The specific gravities of the liquids ranged from 1.38 to 1.67 g/mL. The standard recoveries for the specific gravity and density measurements were between 97.7 and 99.6 percent.

Project Coordinator: Jaiduk Jo

REFERENCES

Dukelow, G. T., J. W. Hunt, H. Babad, and J. E. Meacham, 1995, *Tank Safety Screening Data Quality Objective*, WHC-SD-WM-SP-004, Rev. 2, Westinghouse Hanford Company, Richland, Washington.

Fowler, K. D., 1995, *Data Quality Objectives for Tank Farms Waste Compatibility Program*, WHC-SD-WM-DQO-001, Rev. 1, Westinghouse Hanford Company, Richland, Washington.

Raphael, G. F., 1996, *Tank 241-U-107 Push Mode Core Sampling and Analysis Plan*, WHC-SD-WM-TSAP-076, Rev. 0, Westinghouse Hanford Company, Richland, Washington.

Simpson, B. C., and D. J. McCain, 1995, *Historical Model Evaluation Data Requirements*, WHC-SD-WM-DQO-018, Rev. 0A, Westinghouse Hanford Company, Richland, Washington.

Turner, D. A., H. Babad, L. L. Buckley, and J. E. Meacham, 1995, *Data Quality Objective to Support Resolution of the Organic Complexant Safety Issue*, WHC-SD-WM-DQO-006, Rev. 2, Westinghouse Hanford Company, Richland, Washington.

SAMPLE DATA SUMMARY

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U-107 Safety Screening Report
U-107

CORE NUMBER: 129
SEGMENT #: 3R

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001140			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.360	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T001143			% Water by TGA on Perkin Elmer	%	None	None	99.41	n/a	4.960	6.360e0	5.660e0	24.7	n/a	n/a	n/a
S96T001143			DSC Exotherm on Perkin Elmer	Joules/g	None	None	92.86	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001143			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001153			Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	98.44	<1.450e-3	4.64e-02	3.220e-2	3.930e-2	36.1	73.82	4.000e-3	1.75E+01

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=> Selected Limit

INTERIM

INTERIM

U-107 Safety Screening Report
U-107

CORE NUMBER: 129
SEGMENT #: 1

SEGMENT PORTION: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T000683			% Water by TGA using Mettler	%	None	None	102.3	n/a	18.52	1.937e1	1.895e1	4.49	n/a	n/a	n/a
S96T000683			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	15.30	1.407e1	1.469e1	8.38	n/a	n/a	n/a
S96T000683			DSC Exotherm using Mettler	Joules/g	None	None	108.6	n/a	12.40	1.140e1	1.190e1	8.40	n/a	n/a	n/a
S96T000684		F	Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	104.6	2.00e-03	2.43e-03	<5.12E-3	n/a	n/a	92.60	4.000e-3	1.06E+02

Drainable Liquid: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T000637			Specific Gravity	Sp.G.	None	None	98.24	n/a	1.381	n/a	n/a	n/a	n/a	1.000e-3	n/a
S96T000665			% Water by TGA using Mettler	%	None	None	99.61	n/a	51.94	5.451e1	5.322e1	4.83	n/a	n/a	n/a
S96T000665			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	1.17e+02	1.148e2	1.160e2	2.07	n/a	n/a	n/a
S96T000665			DSC Exotherm using Mettler	Joules/g	None	None	105.8	n/a	54.80	5.370e1	5.425e1	2.03	n/a	n/a	n/a
S96T000665			Alpha in Liquid Samples	uCi/mL	-7.0e+00	61.50	98.04	<1.210e-2	<1.72e-02	<1.72E-2	n/a	n/a	95.41	2.500e-2	5.00E+02

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=> Selected Limit

INTERIM

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U-107 Safety Screening Report
U-107

CORE NUMBER: 129
SEGMENT #: 2

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T000642			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.520	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T000644			% Water by TGA using Mettler	%	None	None	100.2	n/a	48.57	4.734e1	4.795e1	2.56	n/a	n/a	n/a
S96T000644			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	2.71e+02	2.538e2	2.626e2	6.67	n/a	n/a	n/a
S96T000644			DSC Exotherm using Mettler	Joules/g	None	None	105.4	n/a	1.41e+02	1.321e2	1.366e2	6.66	n/a	n/a	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T000645			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.5[illegible]	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T000647			% Water by TGA using Mettler	%	None	None	100.2	n/a	21.10	1.826e1	1.968e1	14.4	n/a	n/a	n/a
S96T000647			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	11.95	1.021e1	1.108e1	15.7	n/a	n/a	n/a
S96T000647			DSC Exotherm using Mettler	Joules/g	None	None	105.4	n/a	9.600	8.200e0	8.900e0	15.7	n/a	n/a	n/a
S96T000687	F		Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	104.6	2.00e-03	1.54e-01	1.700e-1	1.620e-1	9.88	n/a	4.000e-3	1.01E+01

Drainable Liquid: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T000641			Specific Gravity	Sp.G.	None	None	98.24	n/a	1.435	n/a	n/a	n/a	n/a	1.000e-3	n/a
S96T000682			% Water by TGA using Mettler	%	None	None	99.61	n/a	49.79	4.955e1	4.967e1	0.48	n/a	n/a	n/a
S96T000682			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	1.30e+02	1.266e2	1.281e2	2.42	n/a	n/a	n/a
S96T000682			DSC Exotherm using Mettler	Joules/g	None	None	105.8	n/a	65.30	6.370e1	6.450e1	2.48	n/a	n/a	n/a
S96T000682			Alpha in Liquid Samples	uCi/mL	-7.0e+00	61.50	98.04	<1.210e-2	<1.09e-02	<1.09E-2	n/a	n/a	n/a	2.500e-2	5.00E+02
S96T000685			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.400	n/a	n/a	n/a	n/a	5.000e-1	n/a

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INTERIM

U-107 Safety Screening Report
U-107

CORE NUMBER: 129
SEGMENT #: 3

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T000648			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.480	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T000650			% Water by TGA using Mettler	%	None	None	102.1	n/a	22.19	2.684e1	2.452e1	19.0	n/a	n/a	n/a
S96T000650			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	33.78	1.418e1	2.398e1	81.7	n/a	n/a	n/a
S96T000650			DSC Exotherm using Mettler	Joules/g	None	None	106.2	n/a	25.50	1.070e1	1.810e1	81.8	n/a	n/a	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T000651			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.460	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T000653			% Water by TGA using Mettler	%	None	None	102.1	n/a	16.78	1.743e1	1.711e1	3.80	n/a	n/a	n/a
S96T000653			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	16.77	3.619e1	2.648e1	73.3	n/a	n/a	n/a
S96T000653			DSC Exotherm using Mettler	Joules/g	None	None	106.2	n/a	13.90	3.000e1	2.195e1	73.3	n/a	n/a	n/a
S96T000689		F	Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	95.42	<5.230e-3	3.36e-02	3.710e-2	3.530e-2	9.90	85.46	6.000e-3	2.36E+01

=> Limit violated
=> Selected Limit

INTERIM

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U-107 Safety Screening Report
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CORE NUMBER: 134
SEGMENT #: 5A

SEGMENT PORTION: Liner Liquid

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001110			Alpha in Liquid Samples	uCi/mL	-7.0e+00	61.50	112.5	<4.450e-5	<6.30e-05	<4.54E-5	n/a	n/a	98.05	1.090e-4	5.00E+02
S96T002034			% Water by TGA using Mettler	%	None	None	100.1	n/a	98.17	9.814e1	9.816e1	0.03	n/a	n/a	n/a
S96T002034			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T002034			DSC Exotherm using Mettler	Joules/g	None	None	110.7	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a

A Top Quarter of Segment: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001045			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.5	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T001059			% Water by TGA using Mettler	%	None	None	100.1	n/a	21.25	2.126e1	2.126e1	0.05	n/a	n/a	n/a
S96T001059			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001059			DSC Exotherm using Mettler	Joules/g	None	None	112.5	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001096	F		Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	119.5	<7.050e-3	1.83e-01	1.830e-1	1.830e-1	0.00	n/a	9.000e-3	1.41E+01

=> Limit violated
=> Selected Limit

INTERIM

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U-107 Safety Screening Report
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CORE NUMBER: 134
SEGMENT #: 58

SEGMENT PORTION: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001107			Specific Gravity	Sp.G.	None	None	97.74	n/a	1.437	1.419e0	1.428e0	1.26	n/a	1.000e-3	n/a
S96T001119			% Water by TGA on Perkin Elmer	%	None	None	99.61	n/a	51.01	5.114e1	5.108e1	0.25	n/a	n/a	n/a
S96T001119			DSC Exotherm on Perkin Elmer	Joules/g	None	None	97.64	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001119			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001119			Alpha in Liquid Samples	uCi/mL	-7.0e+00	61.50	112.5	<4.450e-5	5.36e-03	<4.94E-3	n/a	n/a	n/a	5.000e-3	7.34E+01

=> Limit violated
=> Selected Limit

INTERIM

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INTERIM

U-107 Safety Screening Report
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CORE NUMBER: 134
SEGMENT #: 6A

SEGMENT PORTION: Liner Liquid

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001120			% Water by TGA on Perkin Elmer	%	None	None	99.61	n/a	89.27	8.910e1	8.919e1	0.19	n/a	n/a	n/a
S96T001120			DSC Exotherm on Perkin Elmer	Joules/g	None	None	97.64	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001120			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001120			Alpha in Liquid Samples	uCi/mL	-7.0e+00	61.50	112.5	<4.450e-5	<2.25e-03	<2.29E-3	n/a	n/a	n/a	5.000e-3	5.00E+02

W Whole Segment: W Whole Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001046			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.100	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T001070			% Water by TGA using Mettler	%	None	None	102.9	n/a	91.44	9.102e1	9.123e1	0.46	n/a	n/a	n/a
S96T001070			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001070			DSC Exotherm using Mettler	Joules/g	None	None	113.9	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001097	F		Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	119.5	<7.050e-3	1.76e-02	1.270e-2	1.520e-2	32.3	n/a	4.000e-3	3.46E+01

Drainable Liquid: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001121			% Water by TGA on Perkin Elmer	%	None	None	99.61	n/a	91.70	9.222e1	9.196e1	101	n/a	n/a	n/a
S96T001121			Specific Gravity	Sp.G.	None	None	97.46	n/a	1.026	1.009e0	1.018e0	1.67	n/a	1.000e-3	n/a
S96T001121			DSC Exotherm on Perkin Elmer	Joules/g	None	None	97.64	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001121			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001121			Alpha in Liquid Samples	uCi/mL	-7.0e+00	61.50	112.5	<4.450e-5	<2.25e-03	<2.29E-3	n/a	n/a	n/a	5.000e-3	5.00E+02

=> Limit violated
=> Selected Limit

INTERIM

U-107 Safety Screening Report
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CORE NUMBER: 134
SEGMENT #: 2

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001043			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.410	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T001055			% Water by TGA on Perkin Elmer	%	None	None	100.3	n/a	6.940	7.600e0	7.270e0	9.08	n/a	n/a	n/a
S96T001055			DSC Exotherm on Perkin Elmer	Joules/g	None	None	96.63	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001055			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001089	F		Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	116.4	<3.220e-3	1.53e-02	2.030e-2	1.780e-2	28.1	71.31	6.000e-3	3.77E+01

=> Limit violated
=> Selected Limit

INTERIM

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INTERIM

U-107 Safety Screening Report
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CORE NUMBER: 134
SEGMENT #: 3

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001044			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.540	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T001056			% Water by TGA on Perkin Elmer	%	None	None	100.3	n/a	13.12	1.226e1	1.269e1	6.78	n/a	n/a	n/a
S96T001056			DSC Exotherm on Perkin Elmer	Joules/g	None	None	96.63	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001056			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001090		F	Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	116.4	<3.220e-3	2.74e-02	4.030e-2	3.390e-2	38.1	n/a	4.000e-3	2.31E+01

=> Limit violated
=> Selected Limit

INTERIM

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U-107 Safety Screening Report
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CORE NUMBER: 134
SEGMENT #: 4

SEGMENT PORTION: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001061			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.740	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T001064			% Water by TGA using Mettler	%	None	None	102.4	n/a	23.61	2.276e1	2.319e1	3.67	n/a	n/a	n/a
S96T001064			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001064			DSC Exotherm using Mettler	Joules/g	None	None	106.2	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001092	F		Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	110.9	<8.720e-3	7.61e-02	7.510e-2	7.560e-2	1.32	94.71	1.400e-2	2.21E+01

B Second Quarter of Segment: B Second Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001062			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.730	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T001065			% Water by TGA using Mettler	%	None	None	102.4	n/a	28.65	2.764e1	2.814e1	1.47	n/a	n/a	n/a
S96T001065			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001065			DSC Exotherm using Mettler	Joules/g	None	None	106.2	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001093	F		Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	110.9	<8.720e-3	9.65e-02	9.800e-2	9.730e-2	1.54	n/a	3.000e-2	3.03E+01

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001047			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.660	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T001057			% Water by TGA using Mettler	%	None	None	99.97	n/a	34.53	3.923e1	3.688e1	12.7	n/a	n/a	n/a
S96T001057			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	2.33e+02	2.345e2	2.337e2	0.68	n/a	n/a	n/a
S96T001057			DSC Exotherm using Mettler	Joules/g	None	None	94.90	n/a	1.47e+02	1.480e2	1.475e2	0.68	n/a	n/a	n/a
S96T001091	F		Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	108.6	<1.180e-2	2.85e-01	3.190e-1	3.020e-1	11.3	n/a	2.000e-2	1.08E+01

=> Limit violated
=> Selected Limit

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CORE NUMBER: 134
SEGMENT #: 5

SEGMENT PORTION: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001067			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.680	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T001068			% Water by TGA on Perkin Elmer	%	None	None	99.93	n/a	38.28	4.335e1	4.081e1	12.4	n/a	n/a	n/a
S96T001068			DSC Exotherm on Perkin Elmer	Joules/g	None	None	93.78	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001068			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001095		F	Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	119.5	<7.050e-3	9.10e-01	6.090e-1	7.600e-1	39.6	87.19	1.500e-2	8.08E+00

B Second Quarter of Segment: B Second Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001058			% Water by TGA using Mettler	%	None	None	99.97	n/a	44.21	2.819e1	3.620e1	44.3	n/a	n/a	n/a
S96T001058			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	18.11	1.255e2	7.181e1	150	n/a	n/a	n/a
S96T001058			DSC Exotherm using Mettler	Joules/g	None	None	94.90	n/a	11.50	7.970e1	4.560e1	150	n/a	n/a	n/a
S96T001066			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.760	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T001094		F	Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	110.9	<8.720e-3	4.30e-01	3.820e-1	4.060e-1	11.8	n/a	2.900e-2	1.28E+01

=> Limit violated
=> Selected Limit

INTERIM

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U-107 Safety Screening Report
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CORE NUMBER: 135
SEGMENT #: 1R

SEGMENT PORTION: W Whole Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002132			% Water by TGA using Mettler	%	None	None	99.70	n/a	18.55	1.645e1	1.750e1	12.0	n/a	n/a	n/a
S96T002132			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T002132			DSC Exotherm using Mettler	Joules/g	None	None	104.7	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T002135		F	Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	98.44	<1.750e-3	<2.88e-03	<2.76E-3	n/a	n/a	n/a	4.000e-3	2.53E+02

Drainable Liquid: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002141			% Water by TGA using Mettler	%	None	None	99.53	n/a	47.03	4.702e1	4.703e1	0.02	n/a	n/a	n/a
S96T002141			Specific Gravity	Sp.G.	None	None	97.93	n/a	1.474	1.412e0	1.443e0	4.30	n/a	1.000e-3	n/a
S96T002141			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	5.59e+02	5.160e2	5.376e2	8.04	n/a	n/a	n/a
S96T002141			DSC Exotherm using Mettler	Joules/g	None	None	106.5	n/a	2.96e+02	2.733e2	2.848e2	8.04	n/a	n/a	n/a
S96T002141			Alpha in Liquid Samples	uCi/mL	-7.0e+00	61.50	109.4	<1.330e-2	<1.65e-02	<1.65E-2	n/a	n/a	n/a	2.000e-2	1.67E+02

=> Limit violated
=> Selected Limit

INTERIM

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U-107 Safety Screening Report
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CORE NUMBER: 135
SEGMENT #: 2A

SEGMENT PORTION: W Whole Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002130			Bulk Density of Sample	g/mL	None	None	n/a	n/a		n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T002133			% Water by TGA using Mettler	%	None	None	99.53	n/a	16.38	1.546e1	1.592e1	5.78	n/a	n/a	n/a
S96T002133			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T002133			DSC Exotherm using Mettler	Joules/g	None	None	102.6	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T002136	F		Alpha of Digested Solid	uCi/g	-7.0e+00	61.00	115.6	<1.730e-3	1.09e-02	1.940e-2	1.520e-2	56.1	n/a	4.000e-3	4.07E+01

Drainable Liquid: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002142			% Water by TGA using Mettler	%	None	None	99.88	n/a	52.45	5.218e1	5.231e1	0.52	n/a	n/a	n/a
S96T002142			Specific Gravity	Sp.G.	None	None	97.93	n/a	1.665	1.373e0	1.519e0	19.2	n/a	1.000e-3	n/a
S96T002142			DSC Exotherm on Perkin Elmer	Joules/g	None	None	101.6	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T002142			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T002142			Alpha in Liquid Samples	uCi/mL	-7.0e+00	61.50	109.4	<1.330e-2	<1.17e-02	<1.17E-2	n/a	n/a	n/a	2.000e-2	5.00E+02

=> Limit violated
=> Selected Limit

INTERIM

U-107 Safety Screening Report
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CORE NUMBER: 135
SEGMENT #: 2R

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001869			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.300	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T001873			% Water by TGA using Mettler	%	None	None	99.22	n/a	4.670	4.150e0	4.410e0	11.8	n/a	n/a	n/a
S96T001873			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001873			DSC Exotherm using Mettler	Joules/g	None	None	96.31	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001879		F	Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	115.6	<1.730e-3	1.47e-02	1.510e-2	1.490e-2	2.68	66.02	4.000e-3	3.33E+01

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001870			Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.310	n/a	n/a	n/a	n/a	5.000e-1	n/a
S96T001874			% Water by TGA on Perkin Elmer	%	None	None	98.82	n/a	7.30e-01	9.200e-1	8.250e-1	23.0	n/a	n/a	n/a
S96T001874			DSC Exotherm on Perkin Elmer	Joules/g	None	None	102.6	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001874			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001880		F	Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	115.6	<1.730e-3	1.02e-02	1.220e-2	1.120e-2	17.9	n/a	4.000e-3	4.92E+01

=> Limit violated
=> Selected Limit

INTERIM

U-107 Safety Screening Report
U-107

CORE NUMBER: 135
SEGMENT #: 1

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002131			% Water by TGA using Mettler	%	None	None	99.70	n/a	32.41	3.723e1	3.482e1	13.8	n/a	n/a	n/a
S96T002131			DSC Exotherm on Perkin Elmer	Joules/g	None	None	101.7	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T002131			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T002134		F	Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	98.44	<1.750e-3	1.03e-01	9.840e-2	1.010e-1	4.57	79.11	7.000e-3	1.50E+01

Drainable Liquid: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002140			% Water by TGA using Mettler	%	None	None	99.53	n/a	52.73	5.228e1	5.250e1	0.86	n/a	n/a	n/a
S96T002140			Specific Gravity	Sp.G.	None	None	97.93	n/a	1.470	1.392e0	1.431e0	5.45	n/a	1.000e-3	n/a
S96T002140			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	5.40e+02	5.776e2	5.588e2	6.75	n/a	n/a	n/a
S96T002140			DSC Exotherm using Mettler	Joules/g	None	None	106.5	n/a	2.56e+02	2.743e2	2.654e2	6.75	n/a	n/a	n/a
S96T002140			Alpha in Liquid Samples	uCi/mL	-7.0e+00	61.50	109.4	<1.330e-2	<1.33e-02	<1.33E-2	n/a	n/a	99.44	2.000e-2	5.00E+02

=> Limit violated
=> Selected Limit

INTERIM

U-107 Safety Screening Report
U-107

CORE NUMBER: 135
SEGMENT #: 2

SEGMENT PORTION: Liner Liquid

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001865			Specific Gravity	Sp.G.	None	None	98.38	n/a	1.030	1.030e0	1.030e0	0.00	n/a	1.000e-3	n/a
S96T001866			% Water by TGA using Mettler	%	None	None	100.3	n/a	94.44	9.393e1	9.419e1	0.54	n/a	n/a	n/a
S96T001866			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001866			DSC Exotherm using Mettler	Joules/g	None	None	113.5	n/a	0.00e+00	0.000e0	0.000e0	0.00	n/a	n/a	n/a
S96T001866			Alpha in Liquid Samples	uCi/mL	-7.0e+00	61.50	112.5	<7.280e-4	<5.51e-04	<6.41E-4	n/a	n/a	114.8	1.000e-3	5.00E+02

U Upper Half of Segment: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001867			% Water by TGA using Mettler	%	None	None	99.19	n/a	49.90	4.974e1	4.982e1	0.32	n/a	n/a	n/a
S96T001867			DSC Exotherm Dry Calculated	Joules/g Dry	-7.0e+00	480.0	n/a	n/a	2.80e+02	2.096e2	2.449e2	28.8	n/a	n/a	n/a
S96T001867			DSC Exotherm using Mettler	Joules/g	None	None	96.31	n/a	1.41e+02	1.052e2	1.229e2	28.8	n/a	n/a	n/a
S96T001868		F	Alpha of Digested Solid	uCi/g	-7.0e+00	41.00	98.44	<1.750e-3	3.29e-01	3.480e-1	3.390e-1	5.61	n/a	4.000e-3	6.07E+00

=> Limit violated
=> Selected Limit

INTERIM

DOME SPACE VAPOR FLAMMABILITY DATA SHEETS

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DATA SHEET 7 - IH&S VAPOR SURVEY

Tank No. U-107 2/6/96

Riser No. 9

Location (Breather/Vent, Riser, Dome Space, Breathing zone)

Vapor: 10:15 AM

Results:

LEL	0%
O_2	21.1%
TOC	2 ppm
NH_3	~90 ppm

Tank No. U-107

Riser No. 9

Location (Breather/Vent, Riser, Dome Space, Breathing zone) 10:00 AM

Vapor:

Results:

LEL	1%
O_2	20.8%
TOC	14 ppm
NH_3	400 ppm

Tank No. U-107

Riser No. 9

Location (Breather/Vent, Riser, Dome Space, Breathing zone)

Vapor: Truck
Shielded Recbr / Drill Rod / Drill String

Results:

LEL	0% / 0% / 0%
O_2	20.9% / 14% / 12%
TOC	0 ppm / <2 ppm / <2 ppm
NH_3	— / <5 ppm / <5 ppm

DATA SHEET 9 - IH&S FLAMMABLE GAS MONITORING

Tank No. 41/07 Riser No. 9 Date 2/6/96

NOTE- Vapor survey for Single Shell Tanks with hand held combustible gas meter and probe per HASP or SHMS shall be recorded every 15 minutes.

NOTE- Vapor survey for Double Shell Tank in vent header or SHMS, if operable, recorded every 15 minutes with hand held combustible gas meter per HASP.

Location (Vent Header or Dome Space)

Vapor sample every 15 minutes and record below: Differential Limit

TIME	FLAMMABLE GAS, % LFL OR PPM	INITIALS
1000	1%	JC
1015	1%	JC
1030	1%	JC
1045	2% *	JC
1100	2%	JC
1115	2%	JC
1300	2%	JC
1315	2%	JC
1330	2%	JC
1345	2%	JC
1400	2%	JC
1415	2%	JC
1430	2%	JC
1445	2%	JC

* Barometric Pressure Outside dropping during this period.

DATA SHEET 9 - IH&S FLAMMABLE GAS MONITORING

Tank No. U-107 Riser No. 7 Date 2-15-96

NOTE- Vapor survey for Single Shell Tanks with hand held combustible gas meter and probe per HASP or SHMS shall be recorded every 15 minutes.

NOTE- Vapor survey for Double Shell Tank in vent header or SHMS, if operable, recorded every 15 minutes with hand held combustible gas meter per HASP.

I need this value.

Location (Vent Header or Dome Space)

Differential Limit ?

Vapor sample every 15 minutes and record below:

TIME	FLAMMABLE GAS, % LFL OR PPM	INITIALS
2025	0% LFL	JC.
* 2130	1% LFL	JC.
2145	1% LFL	JC
2200	1% LFL	JC

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DATA SHEET 7 - IH&S VAPOR SURVEY

Tank No. 4107 2/9/96 Riser No. 9

Location (Breather/Vent, Riser, Dome Space, Breathing zone)

Vapor:	Results:
O_2	20.9 %
CG	0 %
TOV	0 ppm
NH_3	0 ppm

Tank No. U-107 Riser No. 9

Location (Breather/Vent, Riser, Dome Space, Breathing zone)

Vapor:	Results:
O_2	20.8 %
CG	1 %
TOV	75 ppm
NH_3	600 ppm

Tank No. truck Riser No.

Location (Breather/Vent, Riser, Dome Space, Breathing zone) drill string / shielded receiver / gwill rod

Vapor:	Results:
O_2	17.9% / 20.8% / 4 %
CG	0% / 0% / 0 %
TOV	0 ppm / 0 ppm / 0 ppm

WHC-SD-WM-DP-184, REV. 0

DATA SHEET 7 - IH&S VAPOR SURVEY

Tank No. U-107 Riser No. 7

Location (Breather/Vent, Riser, Dome Space, Breathing zone)

Vapor:	Results:
LEL	0%
O_2	21.2%
TOC	0 ppm
NH_3	0 ppm

Tank No. U-107 Riser No. 7

Location (Breather/Vent, Riser, Dome Space, Breathing zone)

Vapor:	Results:
LEL	0%
O_2	21.1%
TOC	20 ppm
NH_3	400 ppm

Tank No. U-107 Riser No. 7

Location (Breather/Vent, Riser, Dome Space, Breathing zone) Truck

Vapor:	Results: Quill Rod / Shielded Rev	Form Sn
LEL	0% / 0%	0%
O_2	* 15% / 21.2%	15%
TOC	0 ppm / 0 ppm	0 ppm
NH_3	— / —	0 ppm

* First sample pushed

DATA SHEET 7 - IH&S VAPOR SURVEY

2/20/96

Tank No. U-107 Riser No. 7

Location (Breather/Vent, Riser, Dome Space, Breathing zone)

Vapor:	Results:
LEL	0%
O_2	21.1%
TOC	1 ppm
NH_3	0 ppm

Tank No. U-107 Riser No. 7

Location (Breather/Vent, Riser, Dome Space, Breathing zone)

Vapor:	Results:
LEL	3%
O_2	8%
TOC	22 ppm
NH_3	400 ppm

Tank No. U-107 Riser No. 7

Location (Breather/Vent, Riser, Dome Space, Breathing zone) Truck

Vapor:	Results: Quill Rod	Shield Recvr	Drill
LEL	0%	0%	0%
O_2	11%	–	15.5%
TOC	2 ppm	1 ppm	[illegible]
NH_3	0 ppm	[illegible]	[illegible]

WHC-SD-WM-DP-184, REV. 0

DATA SHEET 7 - IH&S VAPOR SURVEY

Tank No. U-107 2/21/96 Riser No. 7

Location (Breather/Vent, Riser, Dome Space, Breathing zone)

Vapor:	Results:
LEL	0%
O_2	21.1%
TOC	0 ppm
NH_3	0 ppm

Tank No. U-107 Riser No. 7

Location (Breather/Vent, Riser, Dome Space, Breathing zone)

Vapor:	Results:
LEL	4%
O_2	20.8%
TOC	26 ppm
NH_3	400 ppm

Tank No. U-107 Riser No. 7

Location (Breather/Vent, Riser, Dome Space, Breathing zone)

Vapor: Truck

Vapor:	Results: Quill Rod	Shld. Rev	Drill String
LEL	0%	0%	0%
O_2	11.2%	–	20.9%
TOC	2 ppm	0 ppm	1 ppm
NH_3	–	–	–

STATISTICAL ANALYSIS

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TGA										
Sample#	Result	DUP	TRIP	Mean	StDev(Mean)	95% LL	Core	Riser	Seg	Segment Portion
S96T000665	51.94	54.51		53.23	1.29	45.11	129	9	1	Drainable Liquid
S96T000683	18.52	19.37		18.95	0.43	16.26	129	9	1	L Lower Half of Segment
S96T000644	48.57	47.34		47.96	0.62	44.07	129	9	2	U Upper Half of Segment
S96T000647	21.1	18.26		19.68	1.42	10.71	129	9	2	L Lower Half of Segment
S96T000682	49.79	49.55		49.67	0.12	48.91	129	9	2	Drainable Liquid
S96T000650	22.19	26.84		24.52	2.33	9.83	129	9	3	U Upper Half of Segment
S96T000653	16.78	17.43		17.11	0.32	15.05	129	9	3	L Lower Half of Segment
S96T001143	4.96	6.36	7.87	6.40	0.84	3.94	129	9	3R	W Whole Segment
S96T001159	18.01	21.43	21.25	20.23	1.11	16.99	129	9	Core Compo	Core Composite
S96T001055	6.94	7.6		7.27	0.33	5.19	134	7	2	Drainable Liquid
S96T001056	13.12	12.26		12.69	0.43	9.97	134	7	3	W Whole Segment
S96T001057	34.53	39.23		36.88	2.35	22.04	134	7	4	L Lower Half of Segment
S96T001064	23.61	22.76		23.19	0.42	20.50	134	7	4	A Top Quarter of Segment
S96T001065	28.65	27.64		28.15	0.50	24.96	134	7	4	B Second Quarter of Segment
S96T001058	44.21	28.19	37.14	36.51	4.64	22.98	134	7	5	B Second Quarter of Segment
S96T001068	38.28	43.35		40.82	2.54	24.81	134	7	5	A First Quarter of Segment
S96T001059	21.25	21.26		21.26	0.00	21.22	134	7	5A	W Whole Segment
S96T002034	98.17	98.14		98.16	0.01	98.06	134	7	5A	Liner Liquid
S96T001119	51.01	51.14		51.08	0.06	50.66	134	7	5B	Drainable Liquid
S96T001070	91.44	91.02		91.23	0.21	89.90	134	7	6A	W Whole Segment
S96T001120	89.27	89.1		89.19	0.08	88.65	134	7	6A	Liner Liquid
S96T001121	91.7	92.22		91.96	0.26	90.32	134	7	6A	Drainable Liquid
S96T001128	18.94	24.24		21.59	2.65	4.86	134	7	n/a	n/a
S96T002131	32.41	37.23		34.82	2.41	19.60	135	2	1	W Whole Segment
S96T002140	52.73	52.28		52.51	0.23	51.08	135	2	1	Drainable Liquid
S96T001867	49.9	49.74		49.82	0.08	49.31	135	2	2	W Whole Segment
S96T002132	18.55	16.45		17.50	1.05	10.87	135	2	1R	W Whole Segment
S96T002141	47.03	47.02		47.03	0.00	46.99	135	2	1R	Drainable Liquid
S96T002133	16.38	15.46		15.92	0.46	13.02	135	2	2A	W Whole Segment
S96T002142	52.45	52.18		52.32	0.14	51.46	135	2	2A	Drainable Liquid
S96T001873	4.67	4.15		4.41	0.26	2.77	135	2	2R	A Top Quarter of Segment
S96T001874	0.73	0.92		0.83	0.10	0.23	135	2	2R	B Second Quarter of Segment
S95T000792	51.31	51.47		51.39	0.08	50.88	n/a	7	U-107-1	n/a
Alpha										
Sample#	Result	DUP	TRIP	Mean	Stds(Mean)	95% UL	Core #	Riser	Seg#	Segment Portion
S96T000665	1.72E-02	1.72E-02		1.72E-02	0.00E+00	1.72E-02	129	9	1	Drainable Liquid
S96T000684	2.43E-03	5.12E-03		3.78E-03	1.35E-03	1.23E-02	129	9	1	L Lower Half of Segment
S96T000682	1.09E-02	1.09E-02		1.09E-02	0.00E+00	1.09E-02	129	9	2	Drainable Liquid
S96T000687	1.54E-01	1.70E-01		1.62E-01	8.00E-03	2.13E-01	129	9	2	L Lower Half of Segment
S96T000689	3.36E-02	3.71E-02		3.54E-02	1.75E-03	4.64E-02	129	9	3	L Lower Half of Segment
S96T001153	4.64E-02	3.22E-02		3.93E-02	7.10E-03	8.41E-02	129	9	3R	W Whole Segment
S96T001162	3.87E-02	3.60E-02		3.74E-02	1.35E-03	4.59E-02	129	9	Core compo	Core Composite
S96T001089	1.53E-02	2.03E-02		1.78E-02	2.50E-03	3.36E-02	134	7	2	W Whole Segment
S96T001090	2.74E-02	4.03E-02		3.39E-02	6.45E-03	7.46E-02	134	7	3	W Whole Segment
S96T001091	2.85E-01	3.19E-01		3.02E-01	1.70E-02	4.09E-01	134	7	4	L Lower Half of Segment
S96T001092	7.61E-02	7.51E-02		7.56E-02	5.00E-04	7.88E-02	134	7	4	A Top Quarter of Segment
S96T001093	9.65E-02	9.80E-02		9.73E-02	7.50E-04	1.02E-01	134	7	4	B Second Quarter of Segment
S96T001094	4.30E-01	3.82E-01		4.06E-01	2.40E-02	5.58E-01	134	7	5	B Second Quarter of Segment

S96T001095	9.10E-01	6.09E-01		7.60E-01	1.51E-01	1.71E+00	134	7	5	A Top Quarter of Segment
S96T001096	1.83E-01	1.83E-01		1.83E-01	0.00E+00	1.83E-01	134	7	5A	W Whole Segment
S96T001110	6.30E-05	4.54E-05		5.42E-05	8.80E-06	1.10E-04	134	7	5A	Liner Liquid
S96T001119	5.36E-03	4.94E-03		5.15E-03	2.10E-04	6.48E-03	134	7	5B	Drainable Liquid
S96T001097	1.76E-02	1.27E-02		1.52E-02	2.45E-03	3.06E-02	134	7	6A	W Whole Segment
S96T001120	2.25E-03	2.29E-03		2.27E-03	2.00E-05	2.40E-03	134	7	6A	Liner Liquid
S96T001121	2.25E-03	2.29E-03		2.27E-03	2.00E-05	2.40E-03	134	7	6A	Drainable Liquid
S96T001132	1.71E-01	1.54E-01		1.63E-01	8.50E-03	2.16E-01	134	7	Core Compo	Core Composite
S96T002134	1.03E-01	9.84E-02		1.01E-01	2.30E-03	1.15E-01	135	2	1	W Whole Segment
S96T002140	1.33E-02	1.33E-02		1.33E-02	0.00E+00	1.33E-02	135	2	1	Drainable Liquid
S96T001866	5.51E-04	6.41E-04		5.96E-04	4.50E-05	8.80E-04	135	2	2	Liner Liquid
S96T001868	3.29E-01	3.48E-01		3.39E-01	9.50E-03	3.98E-01	135	2	2	W Whole Segment
S96T002135	2.88E-03	2.76E-03		2.82E-03	6.00E-05	3.20E-03	135	2	1R	W Whole Segment
S96T002141	1.65E-02	1.65E-02		1.65E-02	0.00E+00	1.65E-02	135	2	1R	Drainable Liquid
S96T002136	1.09E-02	1.94E-02		1.52E-02	4.25E-03	4.20E-02	135	2	2A	W Whole Segment
S96T002142	1.17E-02	1.17E-02		1.17E-02	0.00E+00	1.17E-02	135	2	2A	Drainable Liquid
S96T001879	1.47E-02	1.51E-02		1.49E-02	2.00E-04	1.62E-02	135	2	2R	A Top Quarter of Segment
S96T001880	1.02E-02	1.22E-02		1.12E-02	1.00E-03	1.75E-02	135	2	2R	B Second Quarter of Segment

WHC-SD-WM-DP-184, REV. 0

DSC Sample#	Result	DUP	TRIP	Mean	StdDev(Mean)	95% UL	Matrix	Core #	Riser	Seg#	Segment Portion
S96T000665	117.2	114.8		116.00	1.20	123.58	LIQUID	129	9	1	Drainable Liquid
S96T000683	15.3	14.07		14.69	0.62	18.57	SOLID	129	9	1	L Lower Half of Segment
S96T000644	271.3	253.8		262.55	8.75	317.80	SOLID	129	9	2	U Upper Half of Segment
S96T000647	11.95	10.21		11.08	0.87	16.57	SOLID	129	9	2	L Lower Half of Segment
S96T000682	129.7	126.6		128.15	1.55	137.94	LIQUID	129	9	2	Drainable Liquid
S96T000650	33.78	14.18		23.98	9.80	85.86	SOLID	129	9	3	U Upper Half of Segment
S96T000653	16.77	36.19		26.48	9.71	87.79	SOLID	129	9	3	L Lower Half of Segment
S96T001143	0	0	0	0.00	0.00	0.00	SOLID	129	9	3R	W Whole Segment
S96T001159	11.8	18.2		15.00	3.20	35.20	SOLID	129	9	Core Compo	Core Composite
S96T001055	0	0		0.00	0.00	0.00	SOLID	134	7	2	W Whole Segment
S96T001056	0	0		0.00	0.00	0.00	SOLID	134	7	3	W Whole Segment
S96T001057	232.9	234.5		233.70	0.80	238.75	SOLID	134	7	4	L Lower Half of Segment
S96T001064	0	0		0.00	0.00	0.00	SOLID	134	7	4	A Top Quarter of Segment
S96T001065	0	0		0.00	0.00	0.00	SOLID	134	7	4	B Second Quarter of Segment
S96T001058	18.11	125.5	39.22	60.94	32.85	156.86	SOLID	134	7	5	B Second Quarter of Segment
S96T001068	0	0		0.00	0.00	0.00	SOLID	134	7	5	A Top Quarter of Segment
S96T001059	0	0		0.00	0.00	0.00	SOLID	134	7	5A	W Whole Segment
S96T002034	0	0		0.00	0.00	0.00	LIQUID	134	7	5A	Liner Liquid
S96T001119	0	0		0.00	0.00	0.00	LIQUID	134	7	5B	Drainable Liquid
S96T001070	0	0		0.00	0.00	0.00	SOLID	134	7	6A	W Whole Segment
S96T001120	0	0		0.00	0.00	0.00	LIQUID	134	7	6A	Liner Liquid
S96T001121	0	0		0.00	0.00	0.00	LIQUID	134	7	6A	Drainable Liquid
S96T001128	0	0		0.00	0.00	0.00	SOLID	134	7	n/a	n/a
S96T002131	0	0		0.00	0.00	0.00	SOLID	135	2	1	W Whole Segment
S96T002140	539.9	577.6		558.75	18.85	677.77	LIQUID	135	2	1	Drainable Liquid
S96T001867	280.2	209.6		244.90	35.30	467.78	SOLID	135	2	2	W Whole Segment
S96T002132	0	0		0.00	0.00	0.00	SOLID	135	2	1R	W Whole Segment
S96T002141	559.2	516		537.60	21.60	673.98	LIQUID	135	2	1R	Drainable Liquid
S96T002133	0	0		0.00	0.00	0.00	SOLID	135	2	2A	W Whole Segment
S96T002142	0	0		0.00	0.00	0.00	LIQUID	135	2	2A	Drainable Liquid
S96T001873	0	0		0.00	0.00	0.00	SOLID	135	2	2R	A Top Quarter of Segment
S96T001874	0	0		0.00	0.00	0.00	SOLID	135	2	2R	B Second Quarter of Segment

INORGANIC ANALYSES

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worklistrpt Version 2.1 05/15/95
02/26/96 07:21

LABCORE Data Entry Template for Worklist# 5892

Analyst: BMcCown **Instrument:** DSC0 1 **Book #** 12W14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID	28.45	30.0	N/A	Joules/g
96000085	U-107	2	SAMPLE	S96T000644	0		DSC-01	SOLID	N/A	141.2		Joules/g
96000085	U-107	3	DUP	S96T000644	0		DSC-01	SOLID	141.2	132.1	N/A	Joules/g
96000085	U-107	4	SAMPLE	S96T000647	0		DSC-01	SOLID	N/A	9.6		Joules/g
96000085	U-107	5	DUP	S96T000647	0		DSC-01	SOLID	9.6	8.2	N/A	Joules/g

Final page for worklist # 5892

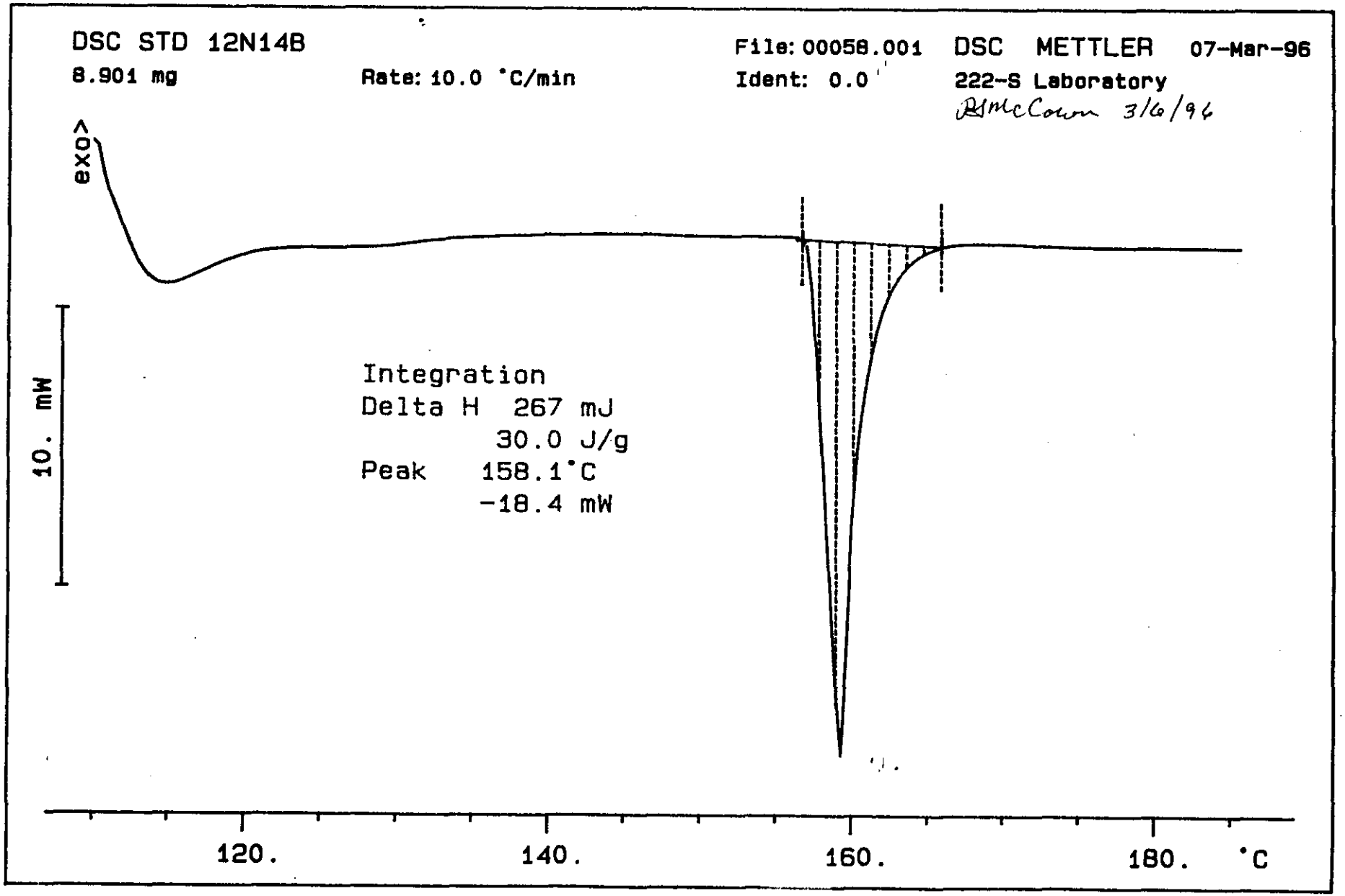
BMcCown 3/6/96
Analyst Signature **Date**

[signature] 3-13-96
Analyst Signature **Date**

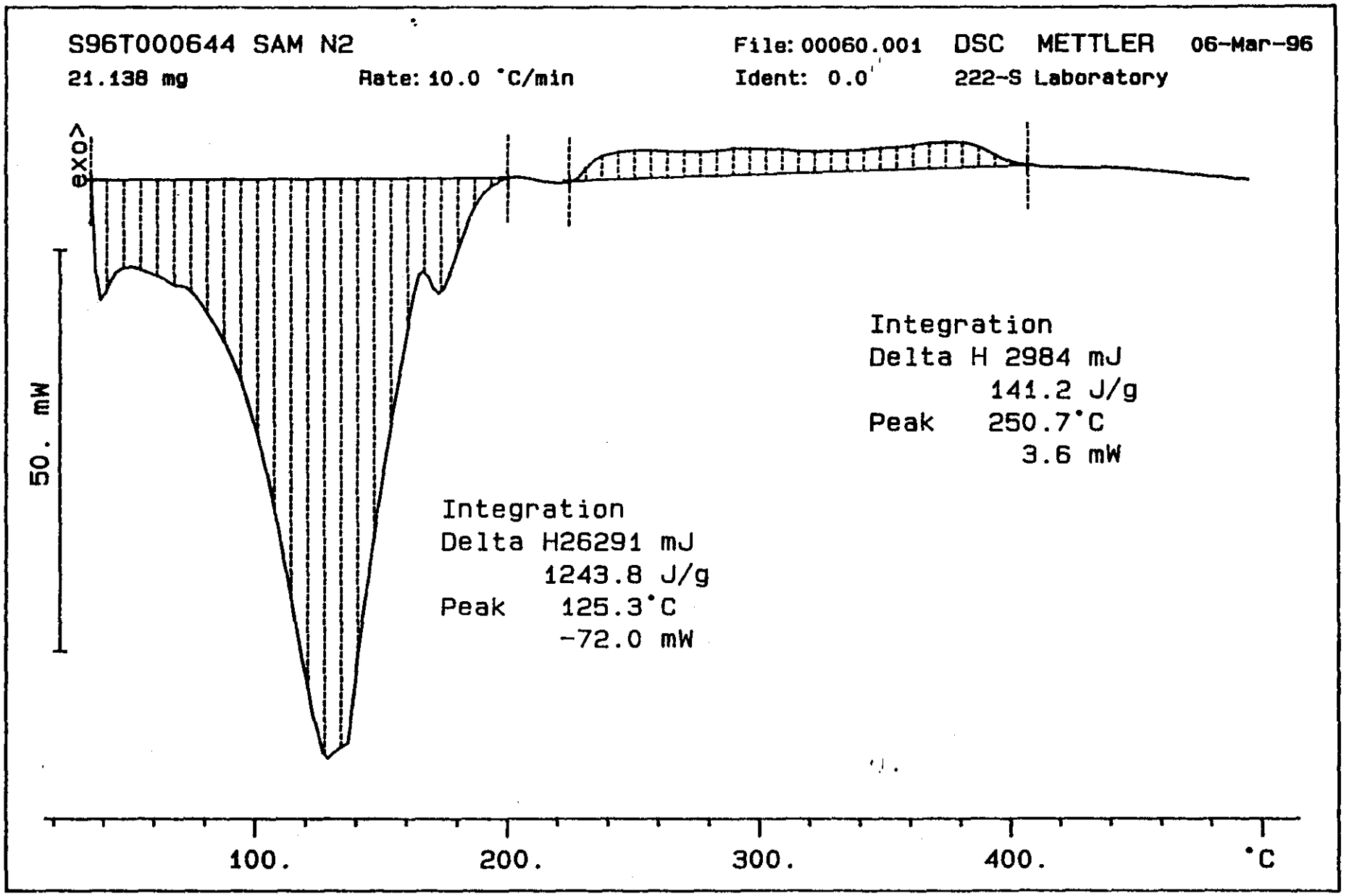
Verified by Blandina Valenzuela 3/19/96

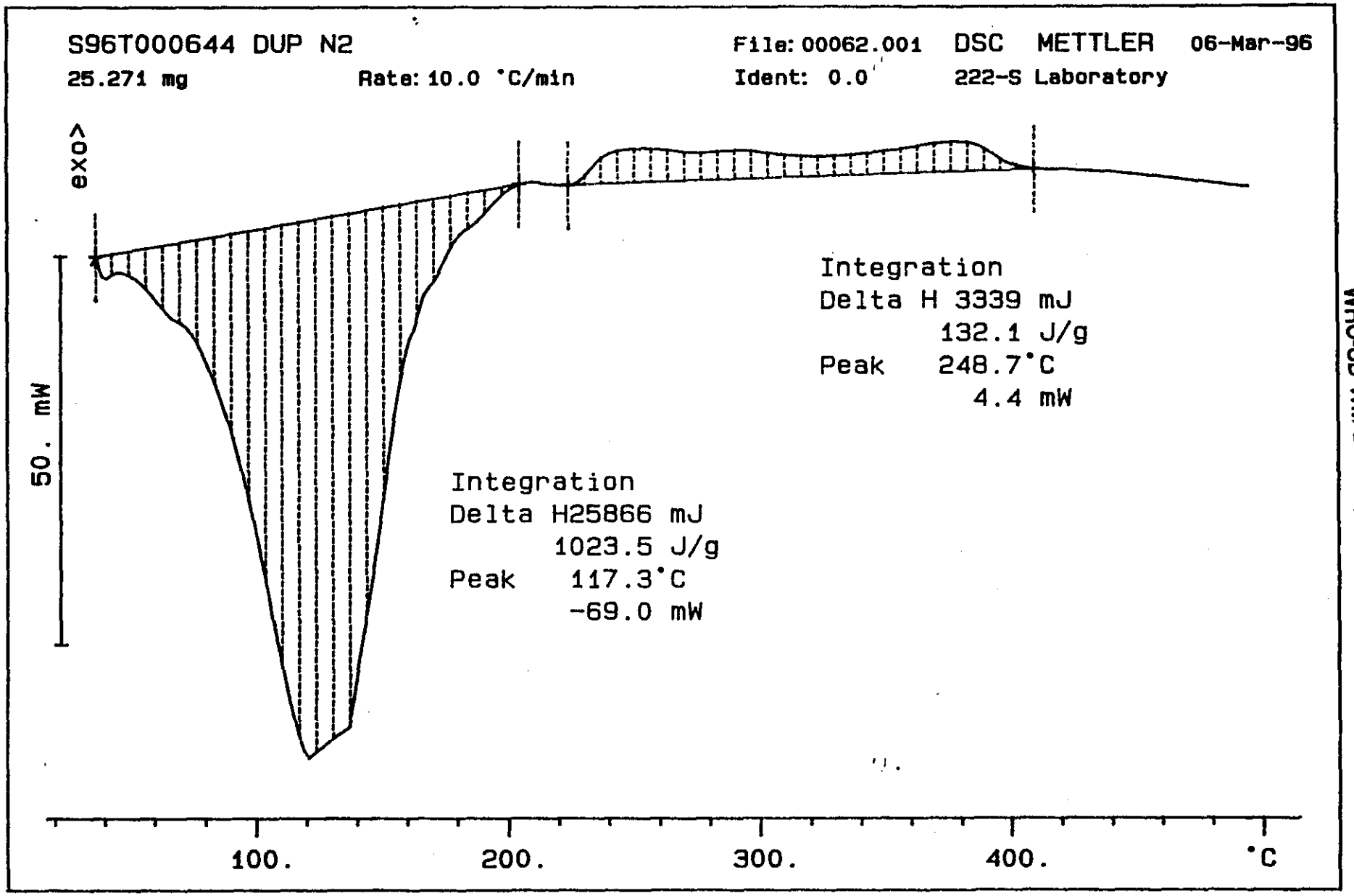
Data Entry Comments: S96T000644 produced an endotherm at 125.3°C with a delta H of 1243.8 J/g.
S96T000647 produced two additional endotherms one at 136.2°C with a delta H of 42 J/g and second at 303.2°C with a delta H of 106.3 J/g

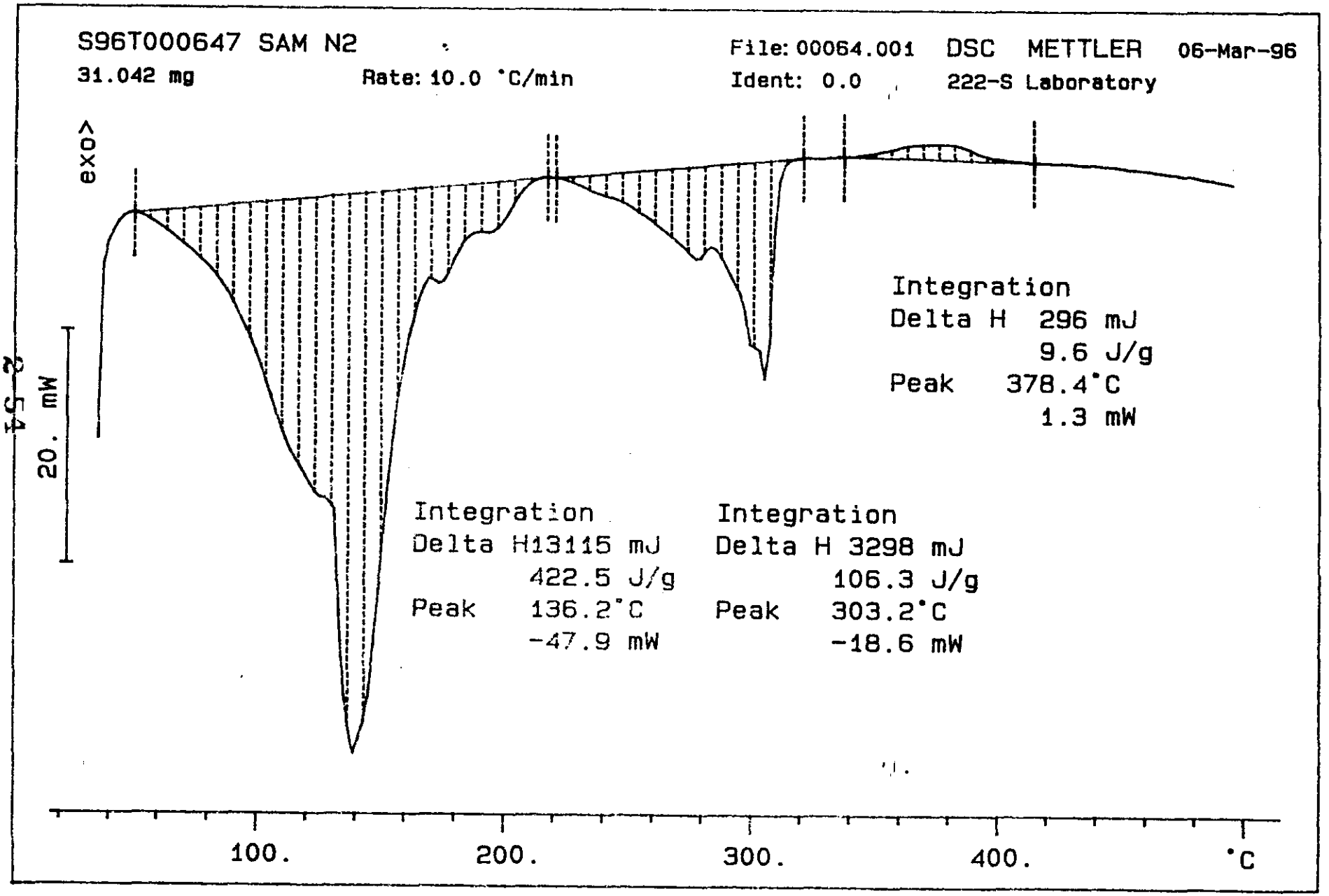
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

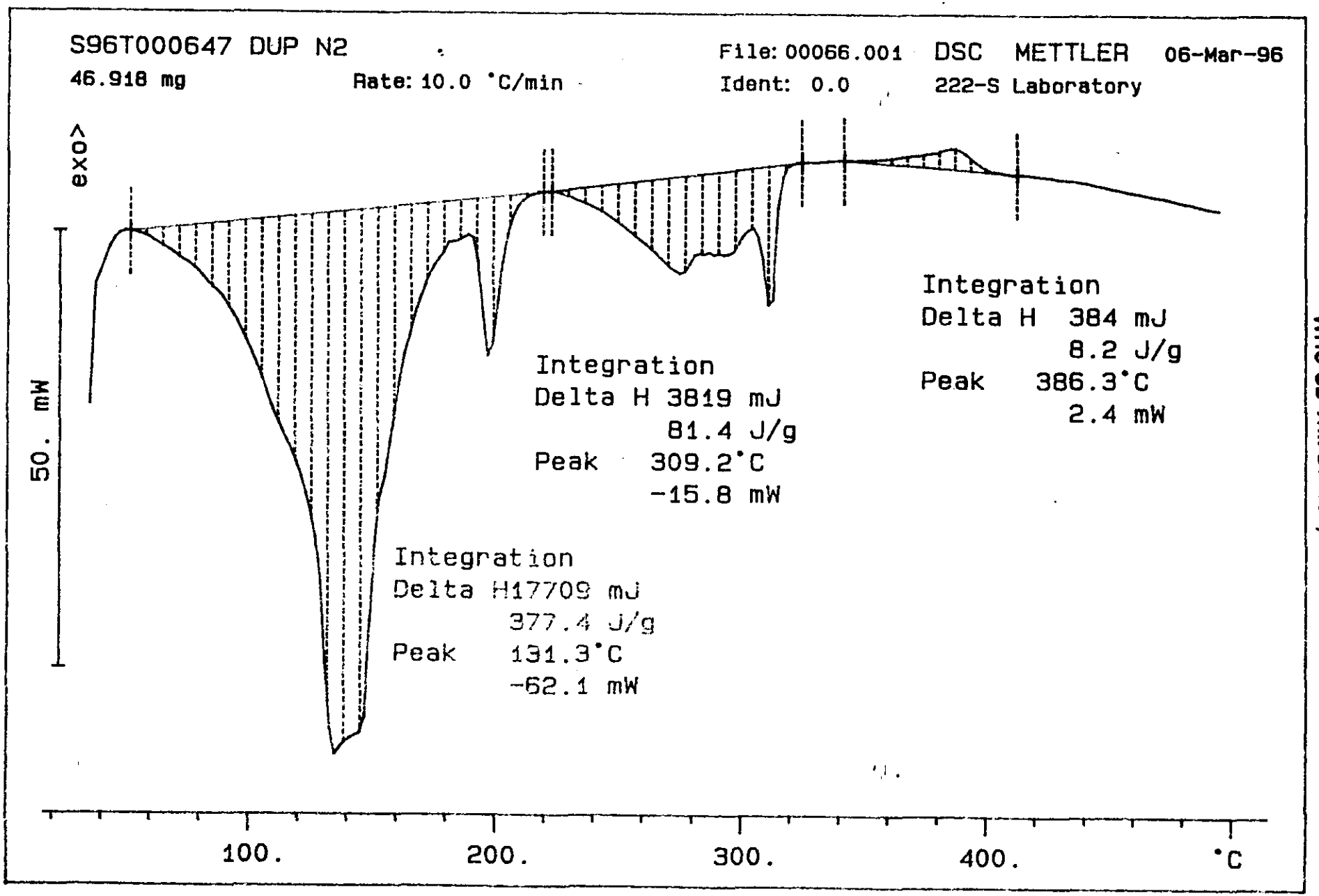


SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 251 TO 255.


S96T000644 SAM N2
21.138 mg
Rate: 10.0 °C/min
File: 00060.001
Ident: 0.0
DSC METTLER
222-S Laboratory
06-Mar-96
exo>
50. mW
Integration
Delta H 2984 mJ
141.2 J/g
Peak 250.7°C
3.6 mW
Integration
Delta H26291 mJ
1243.8 J/g
Peak 125.3°C
-72.0 mW
100.
200.
300.
400.
°C


S96T000644 DUP N2
25.271 mg
Rate: 10.0 °C/min
File: 00062.001
Ident: 0.0
DSC METTLER
222-S Laboratory
06-Mar-96
exo>
50. mW
Integration
Delta H 3339 mJ
132.1 J/g
Peak 248.7°C
4.4 mW
Integration
Delta H25866 mJ
1023.5 J/g
Peak 117.3°C
-69.0 mW
100.
200.
300.
400.
°C


S96T000647 SAM N2
31.042 mg
Rate: 10.0 °C/min
File: 00064.001
Ident: 0.0
DSC METTLER
222-S Laboratory
06-Mar-96
exo>
20. mW
Integration
Delta H 296 mJ
9.6 J/g
Peak 378.4°C
1.3 mW
Integration
Delta H13115 mJ
422.5 J/g
Peak 136.2°C
-47.9 mW
Integration
Delta H 3298 mJ
106.3 J/g
Peak 303.2°C
-18.6 mW
100.
200.
300.
400.
°C


S96T000647 DUP N2
46.918 mg
Rate: 10.0 °C/min
File: 00066.001
Ident: 0.0
DSC METTLER
222-S Laboratory
06-Mar-96
exo>
50. mW
Integration
Delta H17709 mJ
377.4 J/g
Peak 131.3°C
-62.1 mW
Integration
Delta H 3819 mJ
81.4 J/g
Peak 309.2°C
-15.8 mW
Integration
Delta H 384 mJ
8.2 J/g
Peak 386.3°C
2.4 mW
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
02/26/96 07:22

LABCORE Data Entry Template for Worklist# 5893

Analyst: [illegible] **Instrument:** DSC0 1 **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	30.2*	N/A	Joules/g
96000085	U-107	2 SAMPLE	S96T000650	0		DSC-01	SOLID	N/A	25.5		Joules/g
96000085	U-107	3 DUP	S96T000650	0		DSC-01	SOLID	25.5	10.7	N/A	Joules/g
96000085	U-107	4 SAMPLE	S96T000653	0		DSC-01	SOLID	N/A	13.9		Joules/g
96000085	U-107	5 DUP	S96T000653	0		DSC-01	SOLID	13.9	30.0	N/A	Joules/g

Final page for worklist # 5893

[illegible] 3/6/96
Analyst Signature **Date**

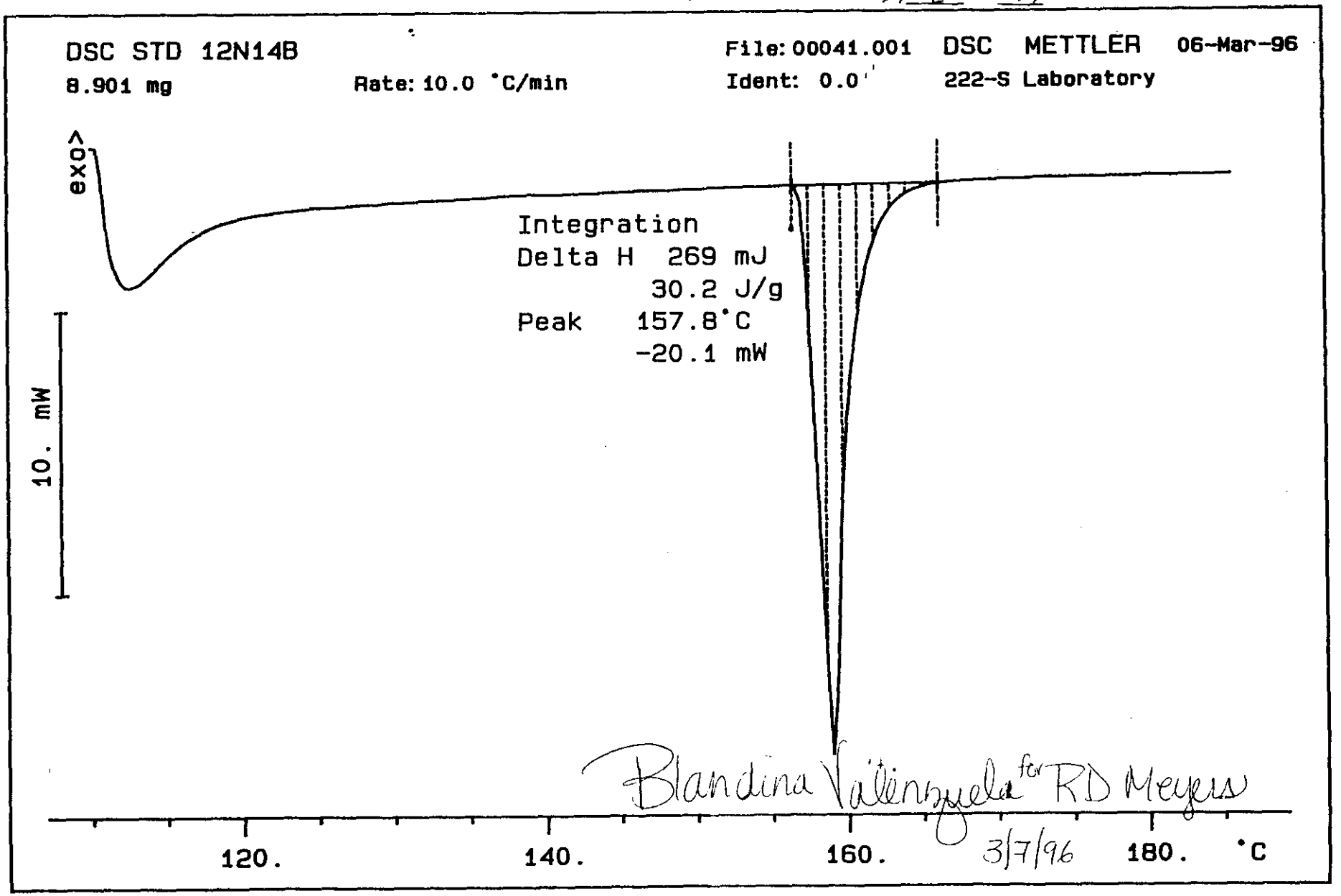
[illegible] 3-6-96
Analyst Signature **Date**

Verified by Blandina Valenzuela 3/7/96

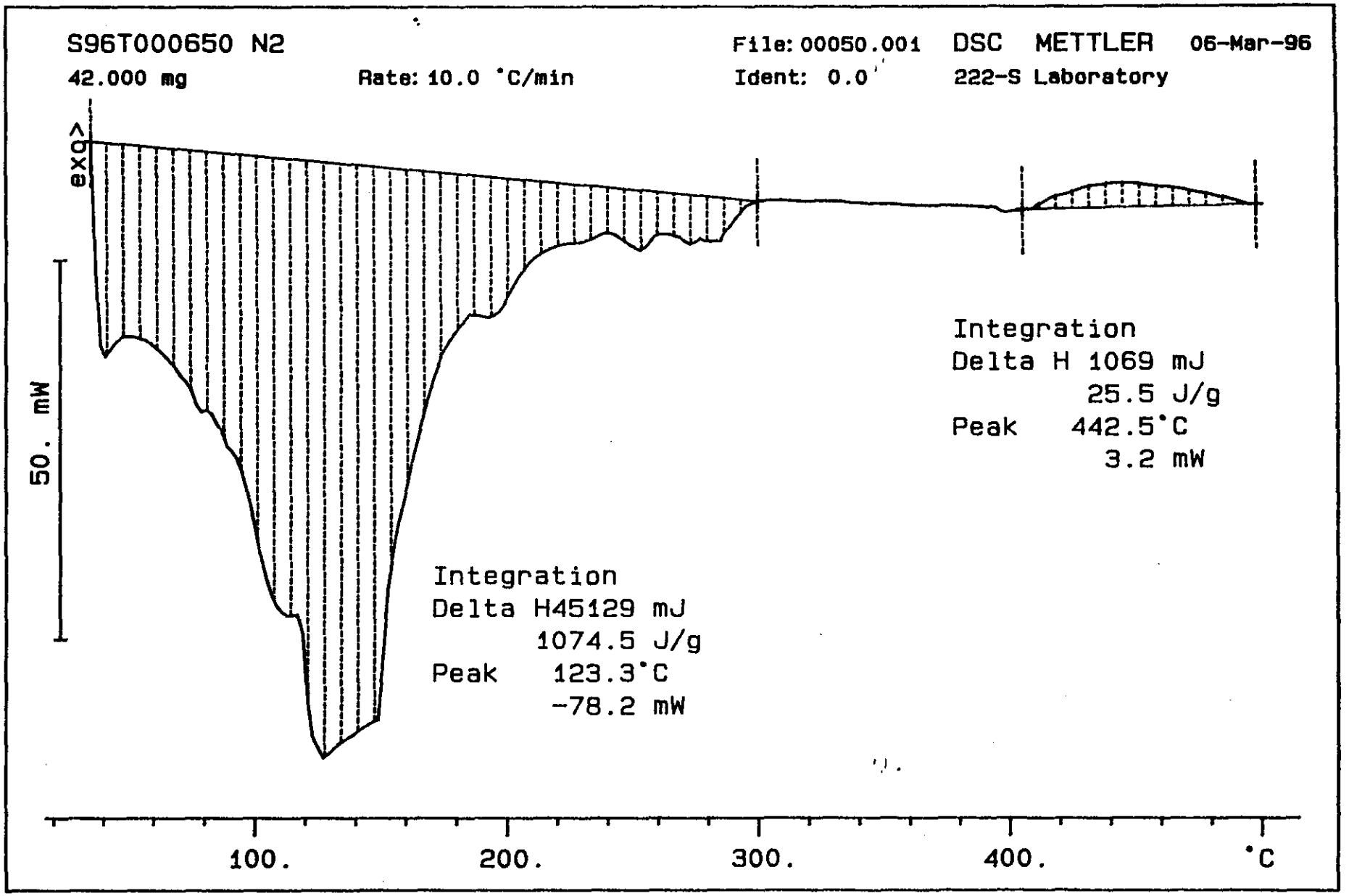
Data Entry Comments: S96T000650 produced a large endotherm at 123.3°C with a delta H of 1074.5J/g.
S96T000653 produced a large endotherm at ~~8~~ 133.3°C with a delta H of 852.2J/g. ADV 3/6/96

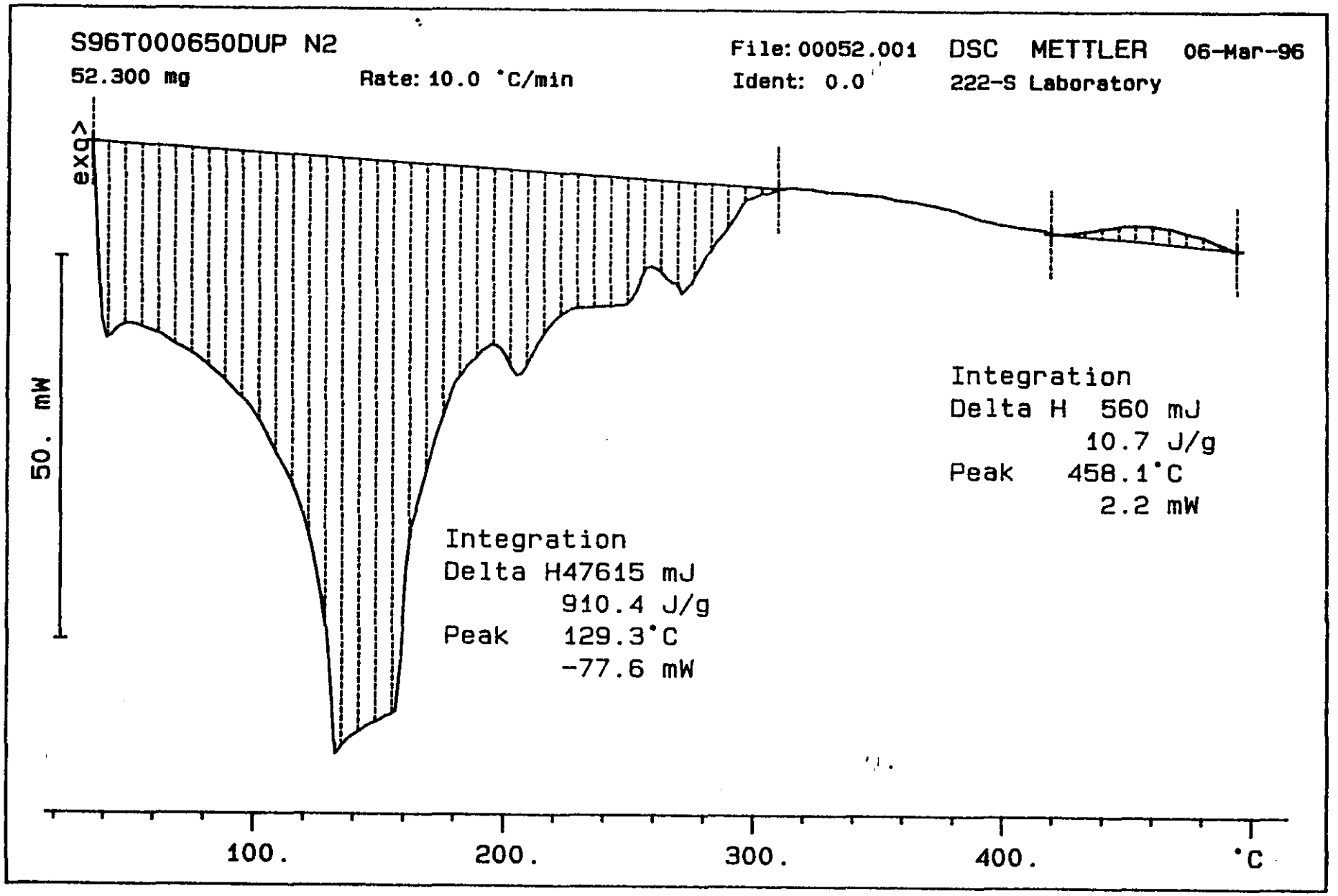
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

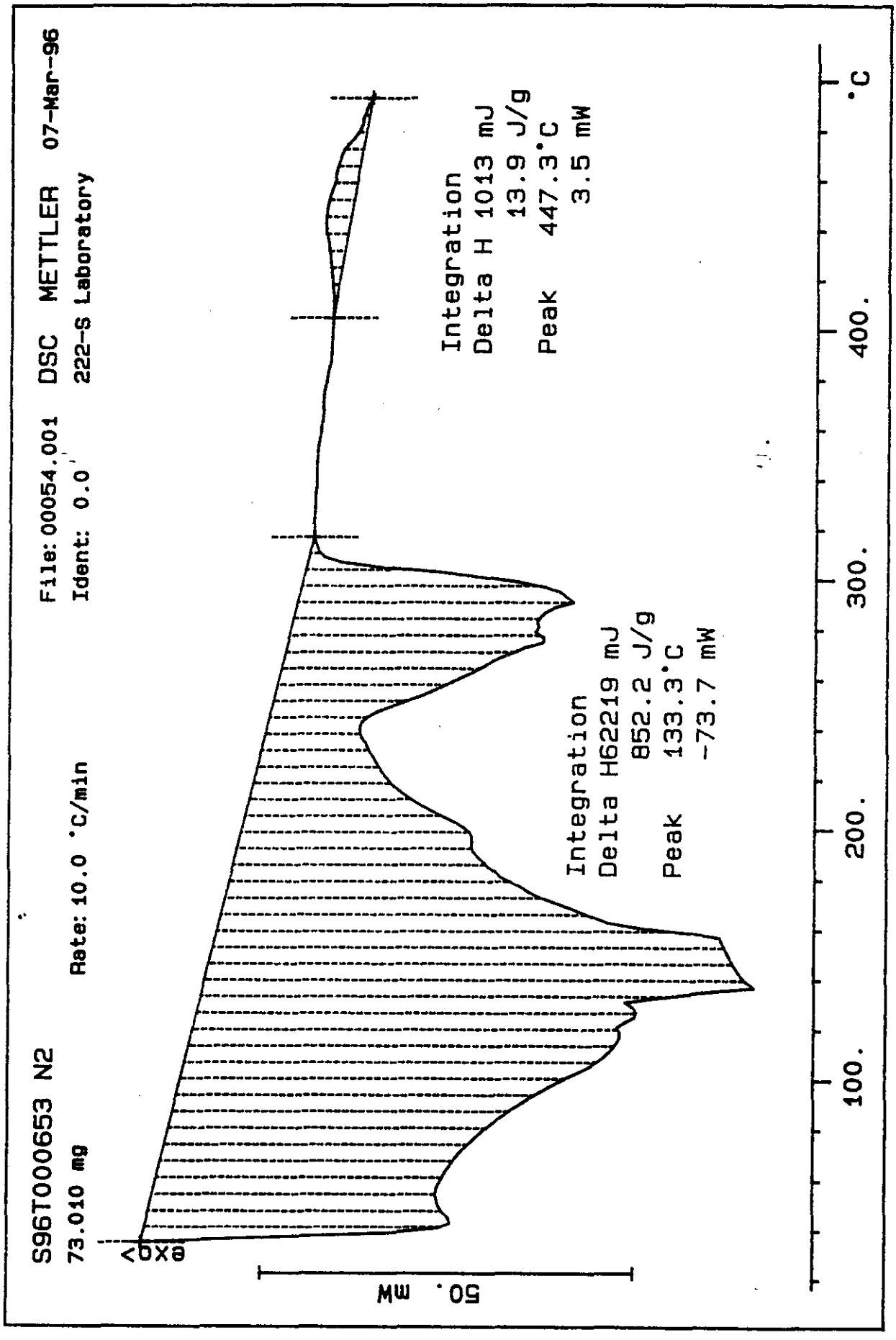
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 256 TO 261.

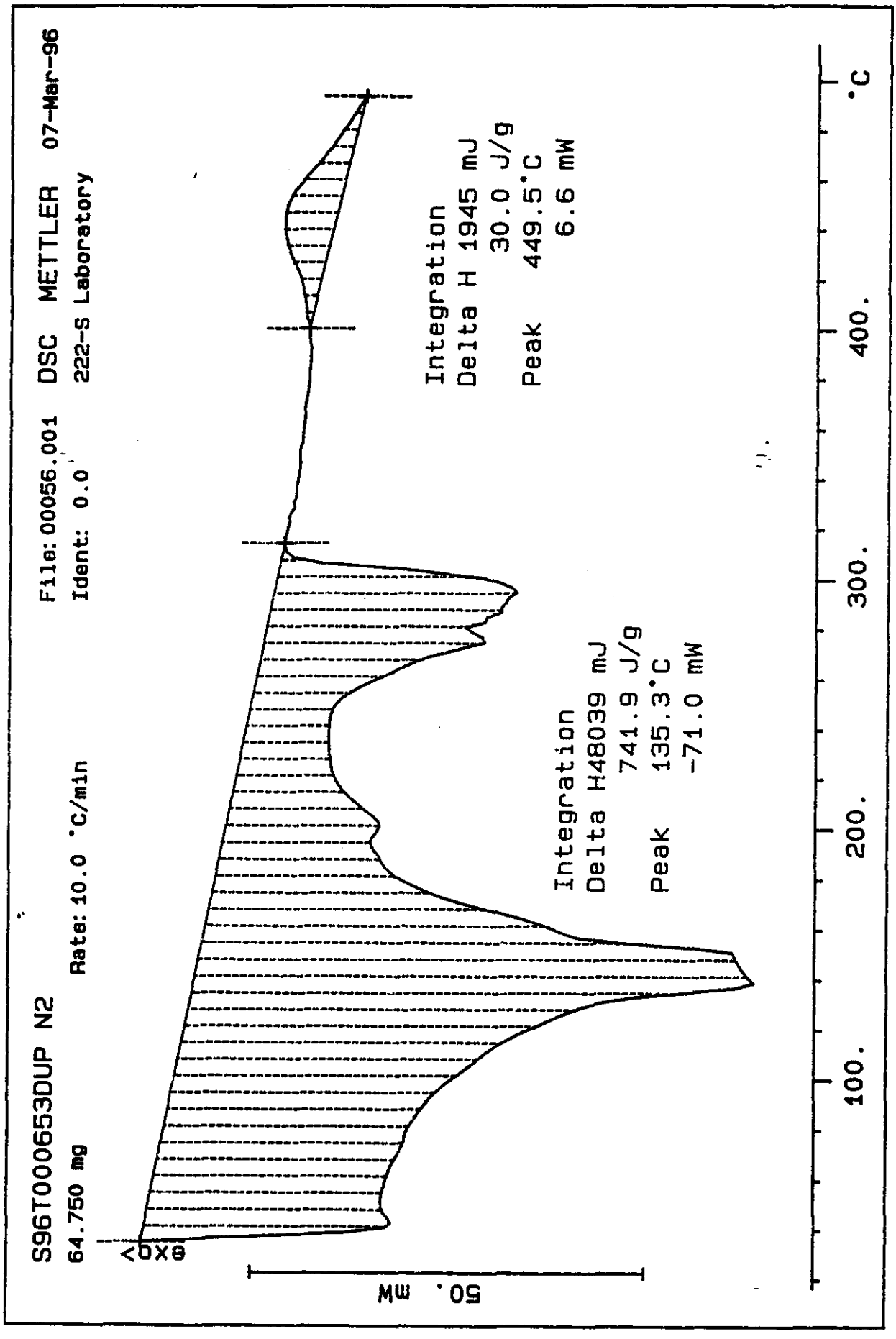


Blandina Valenzuela for RD Meyers 3/7/96


S96T000650 N2
42.000 mg
Rate: 10.0 °C/min
File: 00050.001
Ident: 0.0
DSC METTLER
222-S Laboratory
06-Mar-96
exo>
50. mW
Integration
Delta H 1069 mJ
25.5 J/g
Peak 442.5°C
3.2 mW
Integration
Delta H45129 mJ
1074.5 J/g
Peak 123.3°C
-78.2 mW
100.
200.
300.
400.
°C


S96T000650DUP N2
52.300 mg
Rate: 10.0 °C/min
File: 00052.001
Ident: 0.0
DSC METTLER 06-Mar-96
222-S Laboratory
exo>
50. mW
Integration
Delta H47615 mJ
910.4 J/g
Peak 129.3°C
-77.6 mW
Integration
Delta H 560 mJ
10.7 J/g
Peak 458.1°C
2.2 mW
100.
200.
300.
400.
°C


S96T000653 N2
73.010 mg
Rate: 10.0 °C/min
File: 00054.001
Ident: 0.0
DSC METTLER 07-Mar-96
222-S Laboratory
Integration
Delta H 1013 mJ
13.9 J/g
Peak 447.3°C
3.5 mW
Integration
Delta H62219 mJ
852.2 J/g
Peak 133.3°C
-73.7 mW
exo>
50. mW
100.
200.
300.
400.
°C


S96T000653DUP N2
64.750 mg
Rate: 10.0 °C/min
File: 00056.001
Ident: 0.0
DSC METTLER 07-Mar-96
222-S Laboratory
Integration
Delta H 1945 mJ
30.0 J/g
Peak 449.5°C
6.6 mW
Integration
Delta H48039 mJ
741.9 J/g
Peak 135.3°C
-71.0 mW
exo>
50. mW
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
02/29/96 14:17

LABCORE Data Entry Template for Worklist# 6035

Analyst: SMF **Instrument:** DSC0 1 **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107 DSC-01 RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	30.9*	N/A	Joules/g
96000085	U-107	2 SAMPLE	S96T000683	0		DSC-01	SOLID	N/A	12.4		Joules/g
96000085	U-107	3 DUP	S96T000683	0		DSC-01	SOLID	12.4	11.4	N/A	Joules/g

Final page for worklist # 6035

Susie M. Fulton 3-5-96
Analyst Signature **Date**

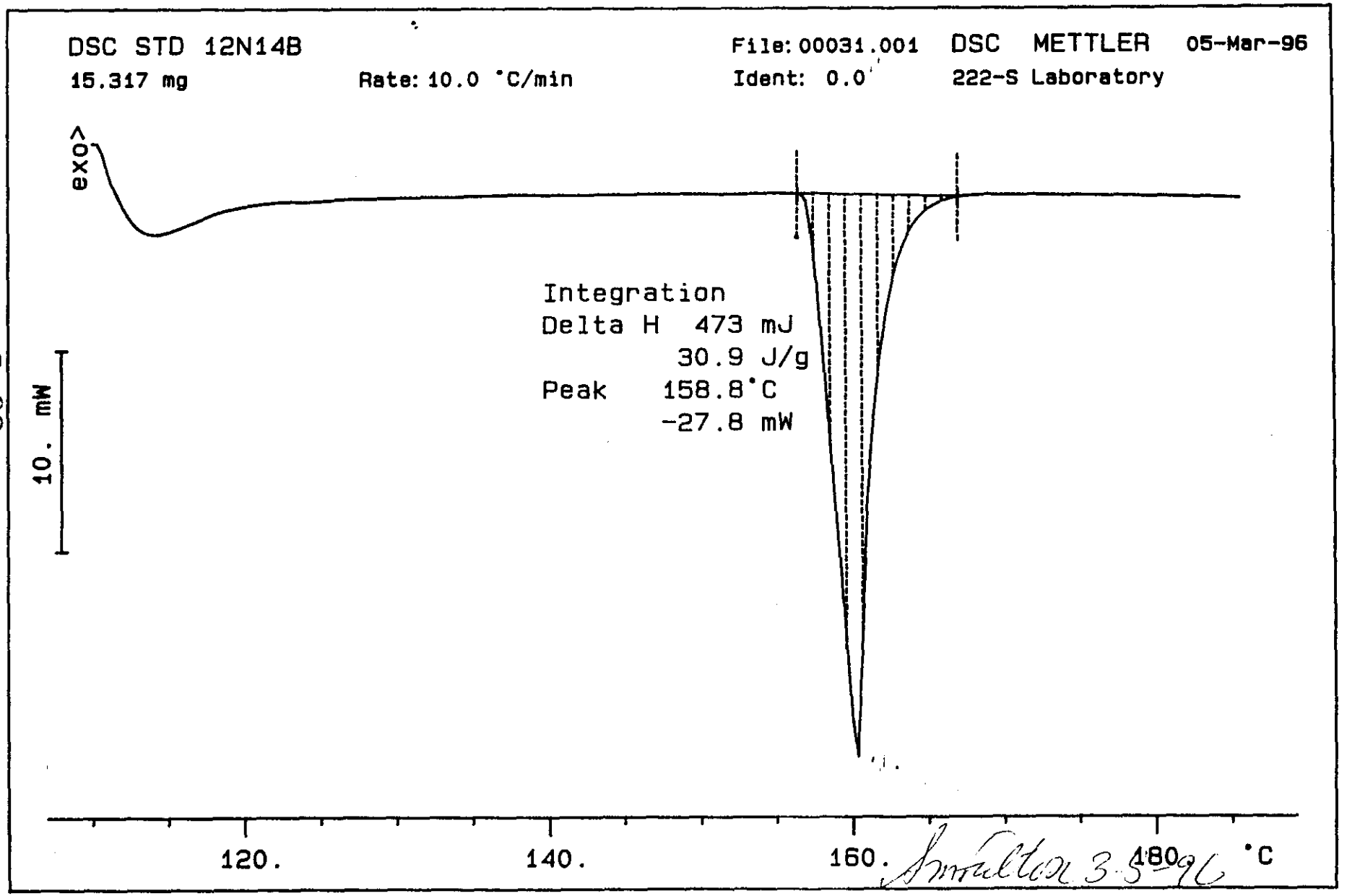
Linda Conlin
Analyst Signature **Date**

Verified by Blandina Valenzuela 3/7/96

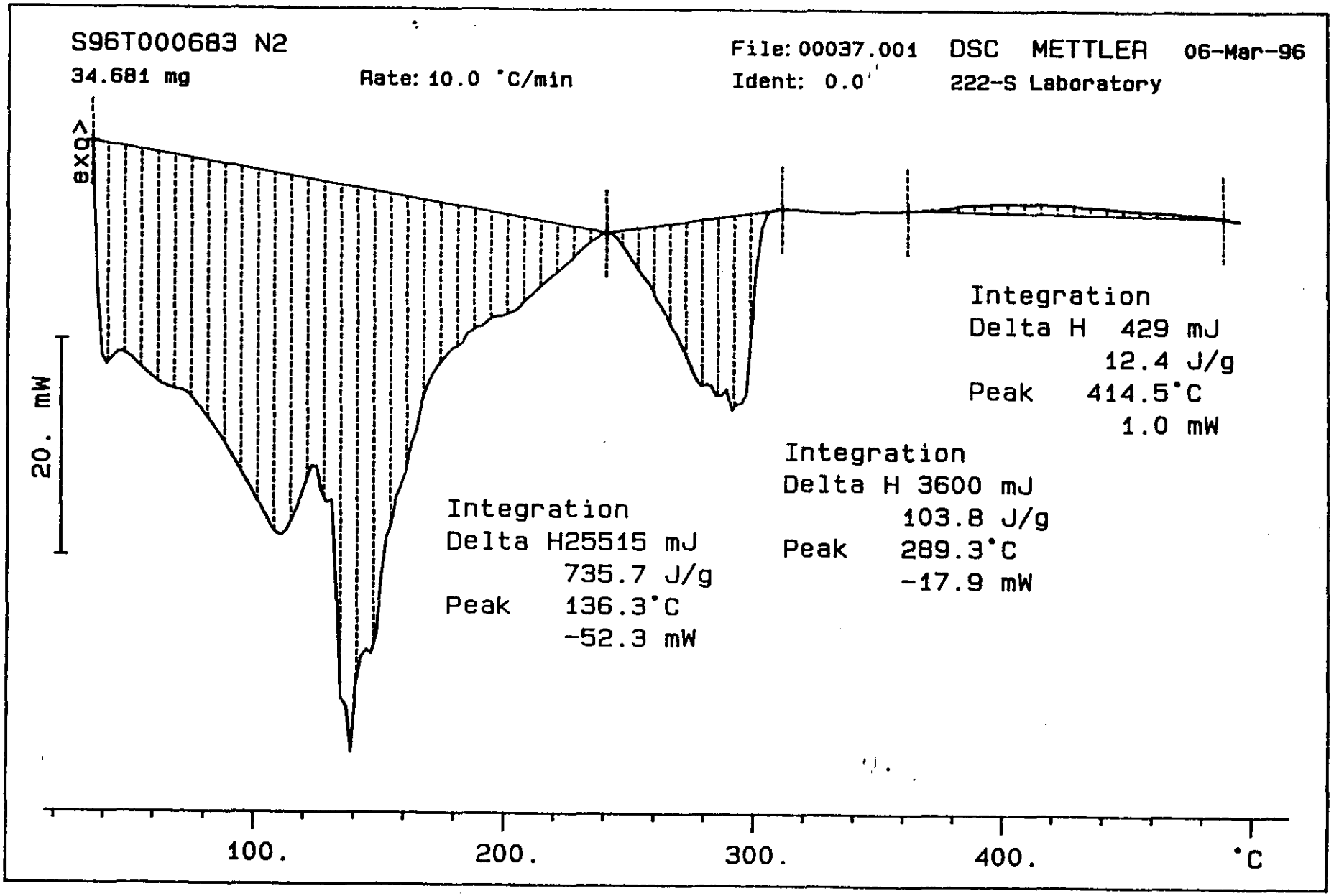
Data Entry Comments: Sample produced two endotherms, one at 136.3°C with a delta H of 735.7J/g and second at 289.3°C with a delta H of 103.8J/g.

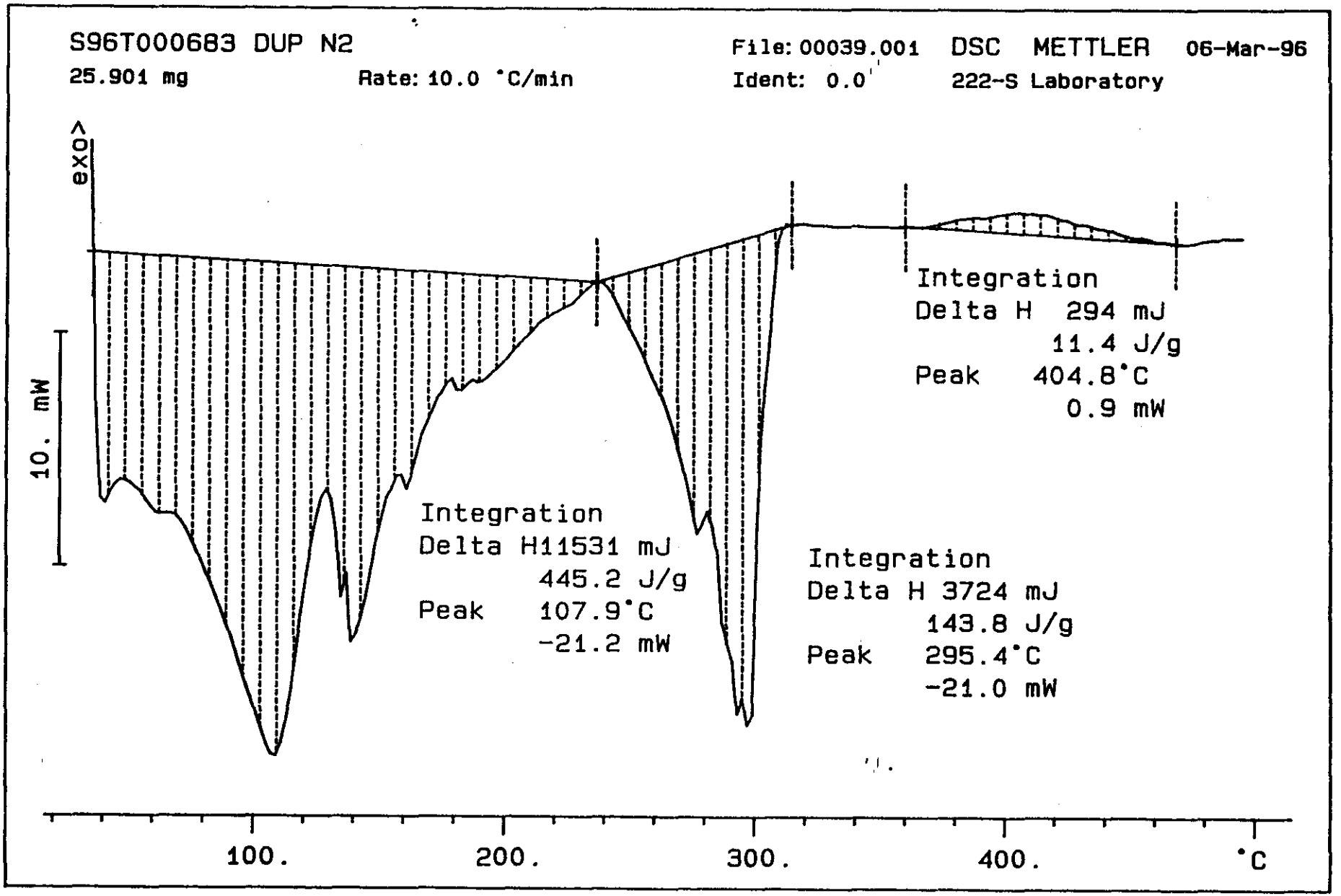
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 263 TO 266



Smalter 3-5-96


S96T000683 N2
34.681 mg
Rate: 10.0 °C/min
File: 00037.001
Ident: 0.0
DSC METTLER
222-S Laboratory
06-Mar-96
exo>
.02 mW
Integration
Delta H25515 mJ
735.7 J/g
Peak 136.3°C
-52.3 mW
Integration
Delta H 3600 mJ
103.8 J/g
Peak 289.3°C
-17.9 mW
Integration
Delta H 429 mJ
12.4 J/g
Peak 414.5°C
1.0 mW
100.
200.
300.
400.
°C


S96T000683 DUP N2
25.901 mg
Rate: 10.0 °C/min
File: 00039.001
Ident: 0.0
DSC METTLER
222-S Laboratory
06-Mar-96
exo>
10. mW
Integration
Delta H 294 mJ
11.4 J/g
Peak 404.8°C
0.9 mW
Integration
Delta H11531 mJ
445.2 J/g
Peak 107.9°C
-21.2 mW
Integration
Delta H 3724 mJ
143.8 J/g
Peak 295.4°C
-21.0 mW
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
04/16/96 15:46

LABCORE Data Entry Template for Worklist# 6511

Analyst: SMF **Instrument:** DSC0 3 **Book #** 12N14B

Method: LA-514-114 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-03	SOLID	28.45	27.49*	N/A	Joules/g
96000126	U-107	2 SAMPLE	S96T001055	0	DSC-03	SOLID	N/A	Ø		Joules/g
96000126	U-107	3 DUP	S96T001055	0	DSC-03	SOLID	Ø	Ø	N/A	Joules/g
96000126	U-107	4 SAMPLE	S96T001056	0	DSC-03	SOLID	N/A	Ø		Joules/g
96000126	U-107	5 DUP	S96T001056	0	DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 6511

See attached for signatures
Analyst Signature **Date** 4/16/96 BOR

Verified by H Anastos 4-22-96

R H Stark 4/19/96
Analyst Signature **Date**

S96T001055 produced two endotherms, one at 109.3°C with a delta H of 211.1 J/g and second at 301.96°C with a delta H of 178.7 J/g.

Data Entry Comments: S96T001056 produced two endotherms, one at 109.0°C with a delta H of 296.4 J/g and second at 290.76°C with a delta H of 91.1 J/g

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
03/14/96 14:32

LABCORE Data Entry Template for Worklist# 6511

Analyst: SMF **Instrument:** DSC0 _____ **Book #** 12N14B

Method: LA-514-113 Rev/Mod _____

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID			N/A	Joules/g
96000126	U-107	2	SAMPLE	S96T001055	0		DSC-01	SOLID	N/A			Joules/g
96000126	U-107	3	DUP	S96T001055	0		DSC-01	SOLID			N/A	Joules/g
96000126	U-107	4	SAMPLE	S96T001056	0		DSC-01	SOLID	N/A			Joules/g
96000126	U-107	5	DUP	S96T001056	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 6511

Susie M. Fulton 4-15-96
Analyst Signature **Date**

Analyst Signature **Date**

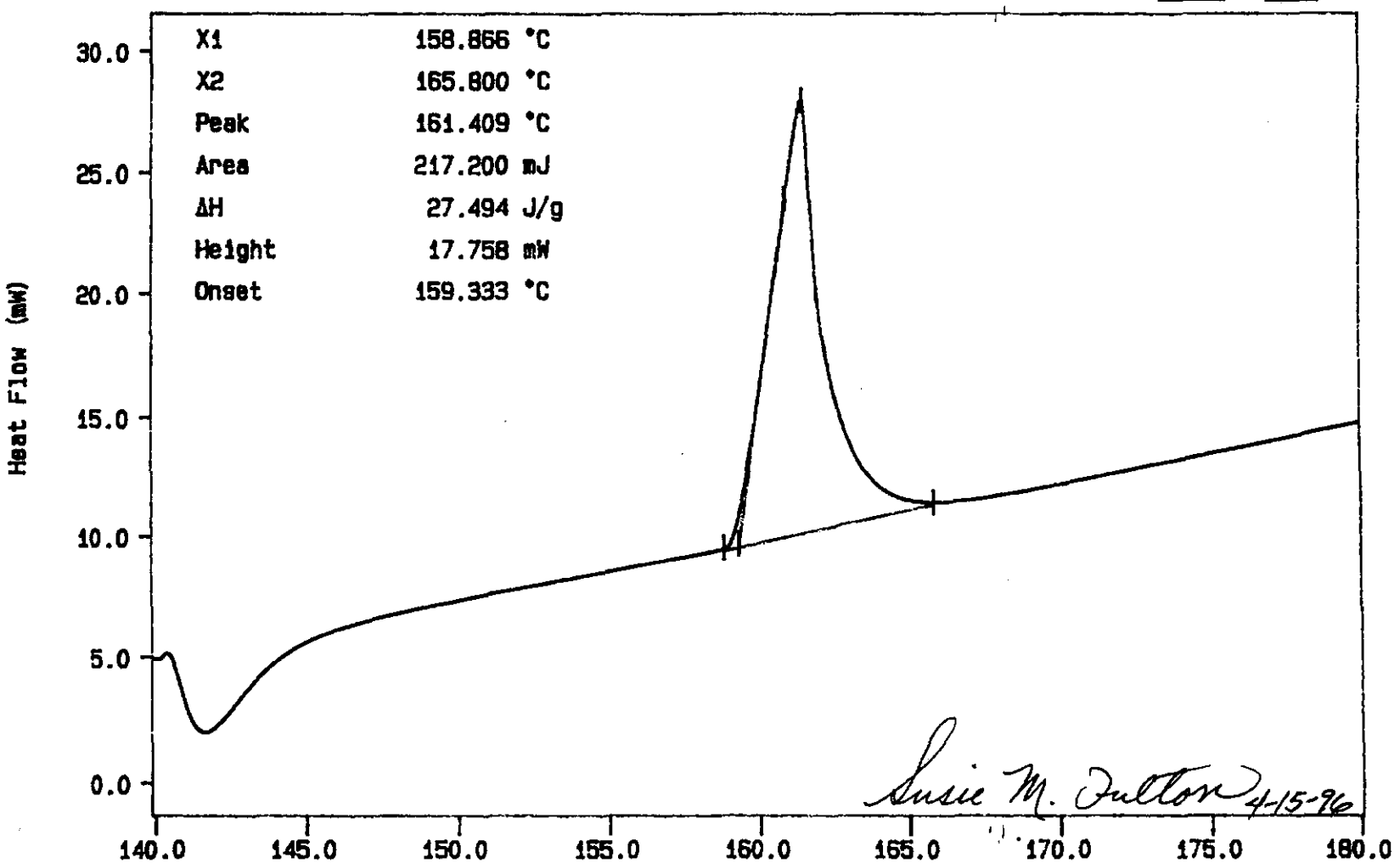
Other instrument
Was used
4/16/96
PBDV

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: IND041501 Mon Apr 15 05:53:45 1996
Sample Weight: 7.900 mg
12N14-B INDIUM AT 10C\MIN

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-69 TO 2-72

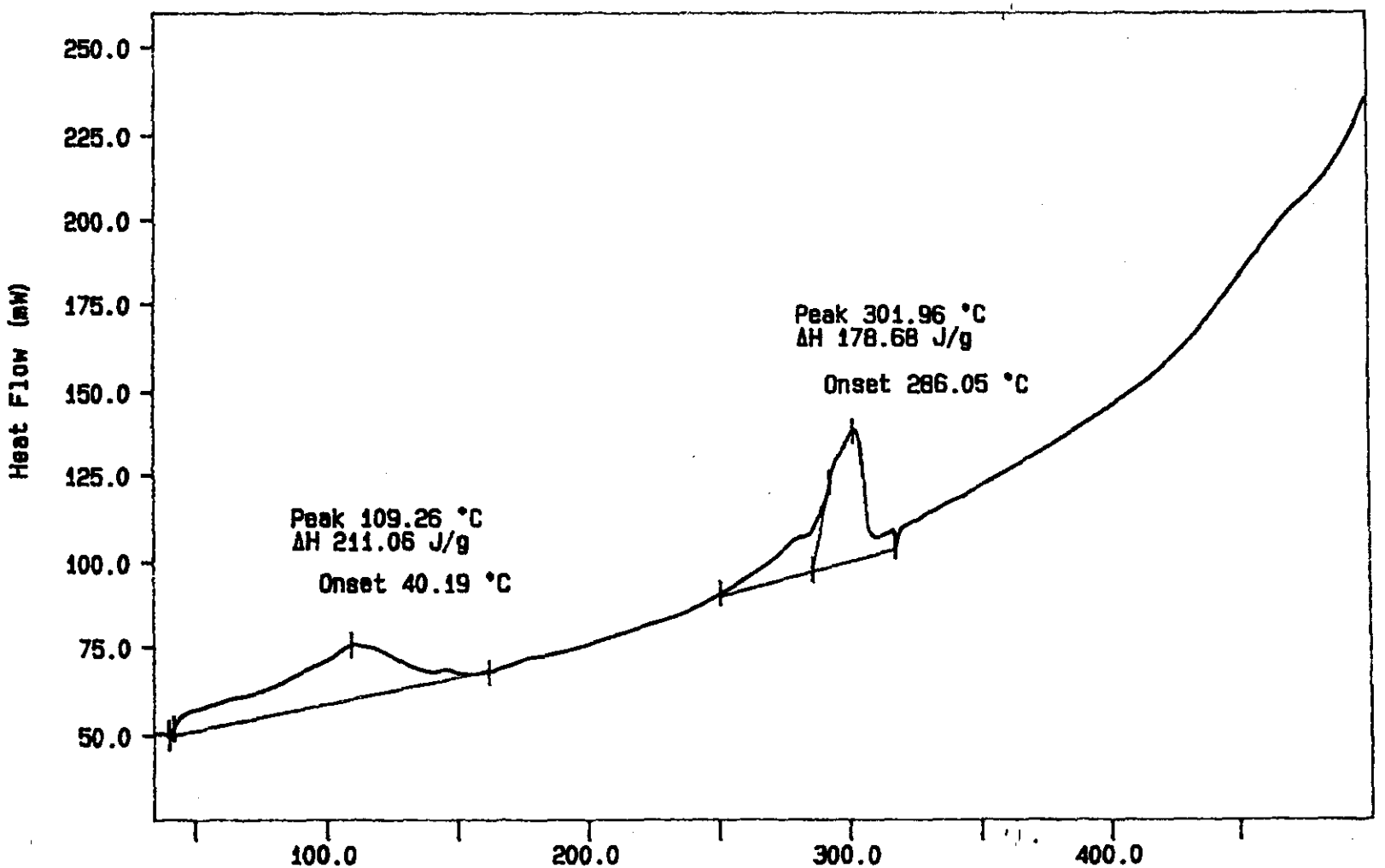


Susie M. Fulton 4-15-96

N2, EXOTHERM DOWN
TEMP1: 140.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 180.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Apr 15 05:54:43 1996

Curve 1: DSC
File info: SAM041504 Mon Apr 15 07:30:07 1996
Sample Weight: 26.740 mg
S96T001055

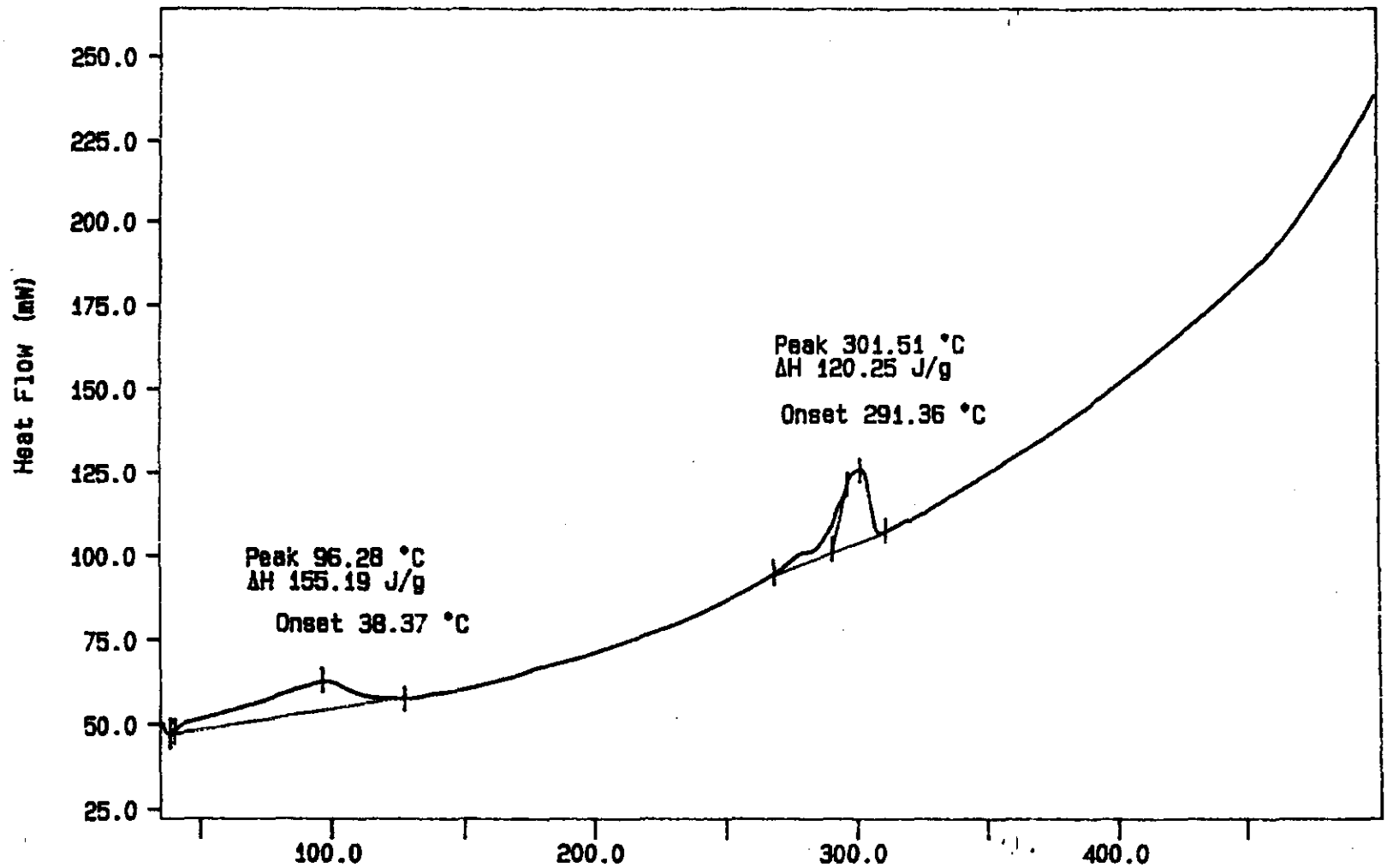


exotherm down, N2 purge gas
TEMP1: 30.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Apr 15 08:28:17 1996

04/18/96 11:01 ☎509 372 2929 WESTINGHOUSE →→→ MU-924 ZUUW 017

Curve 1: DSC
File info: SAM041505 Mon Apr 15 09:23:21 1996
Sample Weight: 16.110 mg
S96T001055 DUP



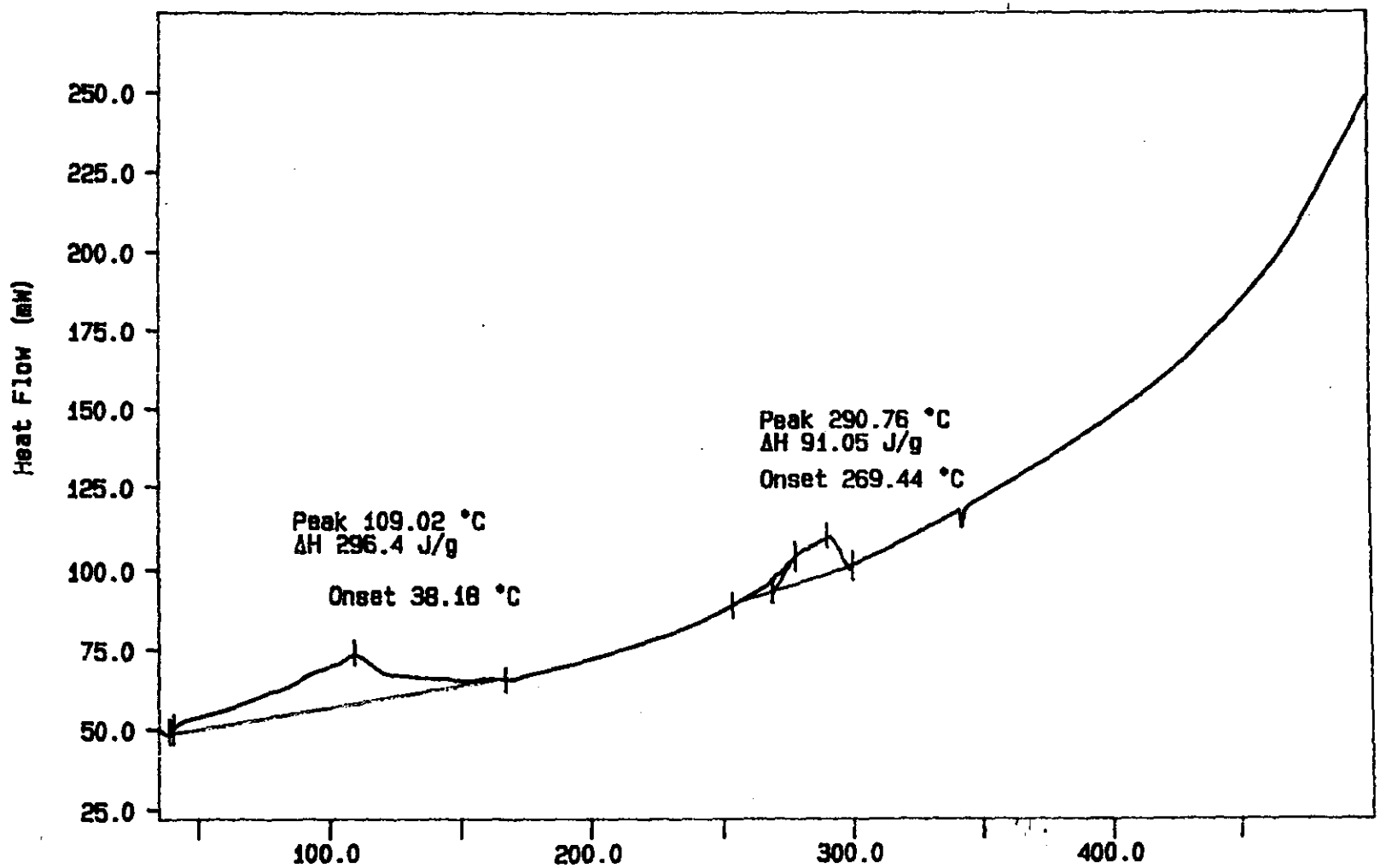
exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Apr 15 12:17:21 1996

2-10

2-71

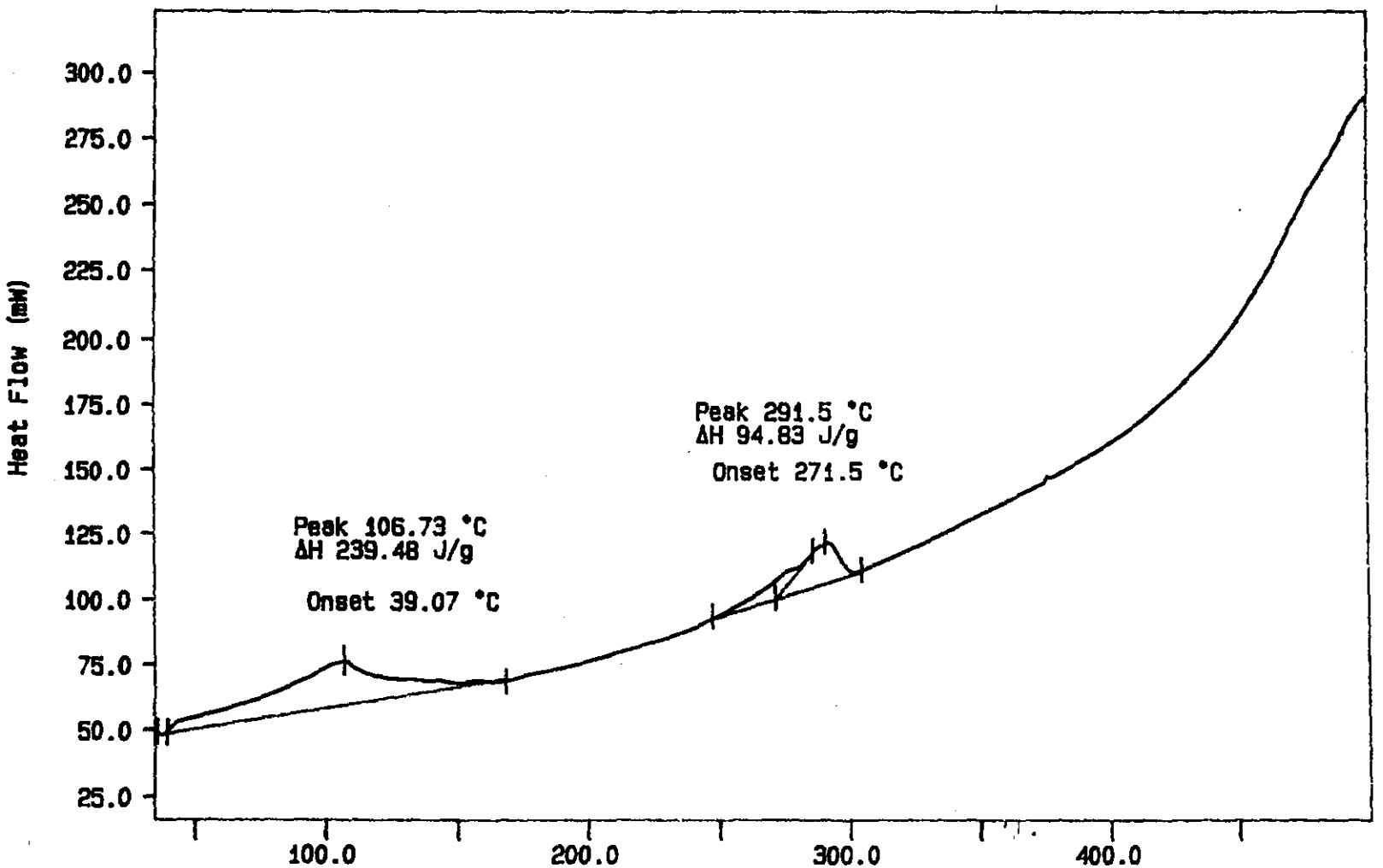
Curve 1: DSC
File info: SAM041506 Mon Apr 15 13:19:28 1996
Sample Weight: 16.800 mg
S96T001056



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Apr 15 13:29:26 1996

Curve 1: DSC
File info: SAM041507 Mon Apr 15 14:36:33 1996
Sample Weight: 22.080 mg
S96T001056 DUP



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Apr 15 15:36:48 1996

04/18/96 11:03 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 020

worklistrpt Version 2.1 05/15/95
04/17/96 11:51

LABCORE Data Entry Template for Worklist# 6512

Analyst: JDS **Instrument:** DSC0 1 **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	27.0	N/A	Joules/g
96000126	U-107	2 SAMPLE	S96T001057	0		DSC-01	SOLID	N/A	147.0		Joules/g
96000126	U-107	3 DUP	S96T001057	0		DSC-01	SOLID	147.0	148.0	N/A	Joules/g
96000126	U-107	4 SAMPLE	S96T001058	0		DSC-01	SOLID	N/A	11.5		Joules/g
96000126	U-107	5 DUP	S96T001058	0		DSC-01	SOLID	11.5	79.7	N/A	Joules/g
96000126	U-107	6 TRIPL	S96T001058	0		DSC-01	SOLID	11.5	24.9	N/A	Joules/g

Final page for worklist # 6512

See attached for signatures
Analyst Signature **Date** 4/17/96

Gary Hammond 4-18-96
Analyst Signature **Date**

Verified by Blandina Valenzuela
4-22-96

Data Entry Comments: S96T001057 produced an endotherm at 114.5°C with a delta H of 994.1 J/g.
S96T001058 produced two endotherms, one at 97.3°C with a delta H of 972.3 J/g and second at 270.5°C with a delta H of 25.7 J/g

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

The triplicate was run because the thermograms did not look alike. The dup and trip did not have two endotherms.

worklistrpt Version 2.1 05/15/95
03/14/96 14:34

LABCORE Data Entry Template for Worklist# 6512

Analyst: JDS **Instrument:** DSC0 _____ **Book #** 12N140

Method: LA-514-113 Rev/Mod _____

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID			N/A	Joules/g
96000126	U-107	2	SAMPLE	S96T001057	0		DSC-01	SOLID	N/A			Joules/g
96000126	U-107	3	DUP	S96T001057	0		DSC-01	SOLID			N/A	Joules/g
96000126	U-107	4	SAMPLE	S96T001058	0		DSC-01	SOLID	N/A			Joules/g
96000126	U-107	5	DUP	S96T001058	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 6512

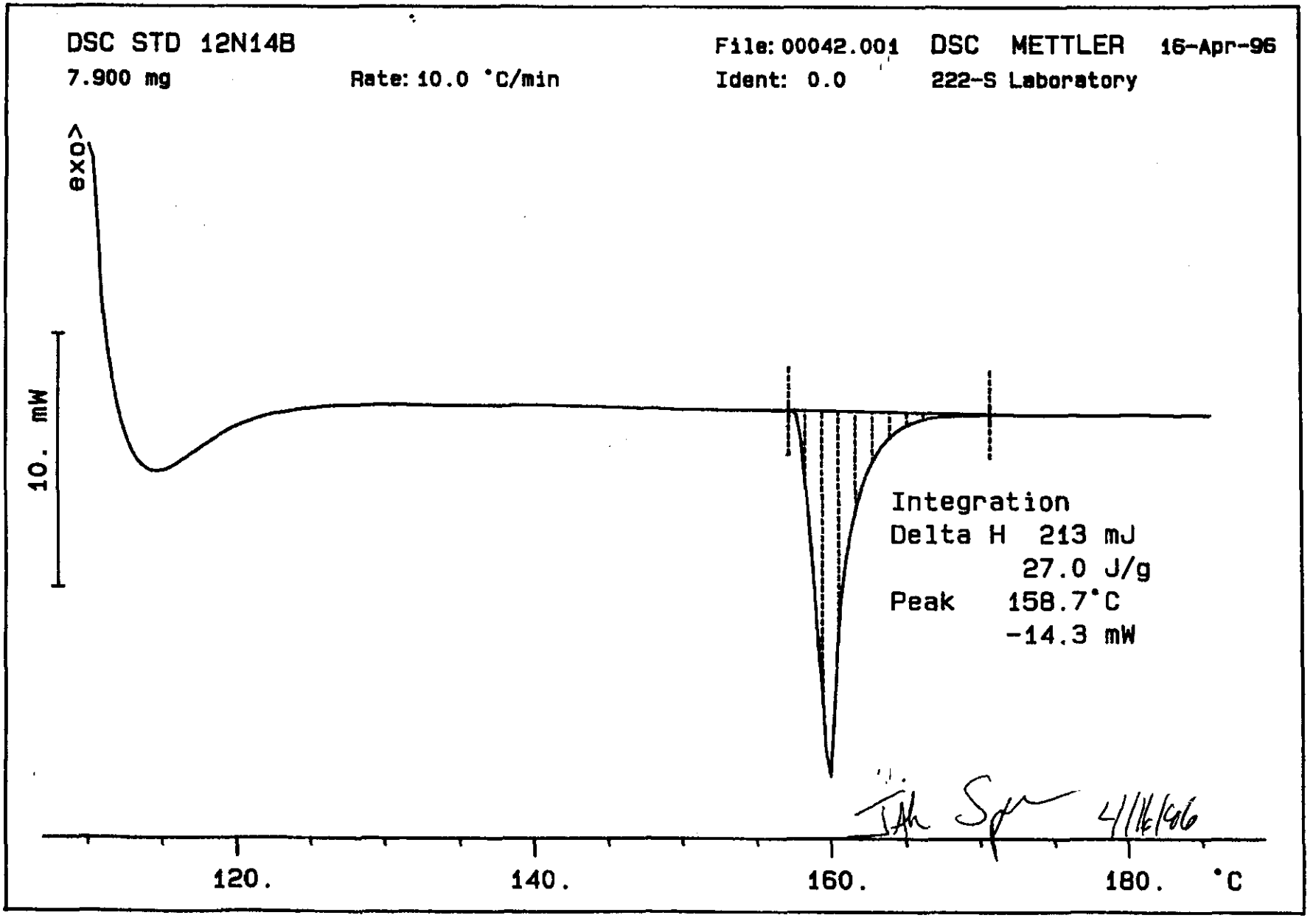
JDS 4/17/96
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments: Ran a Trip on S96T001058

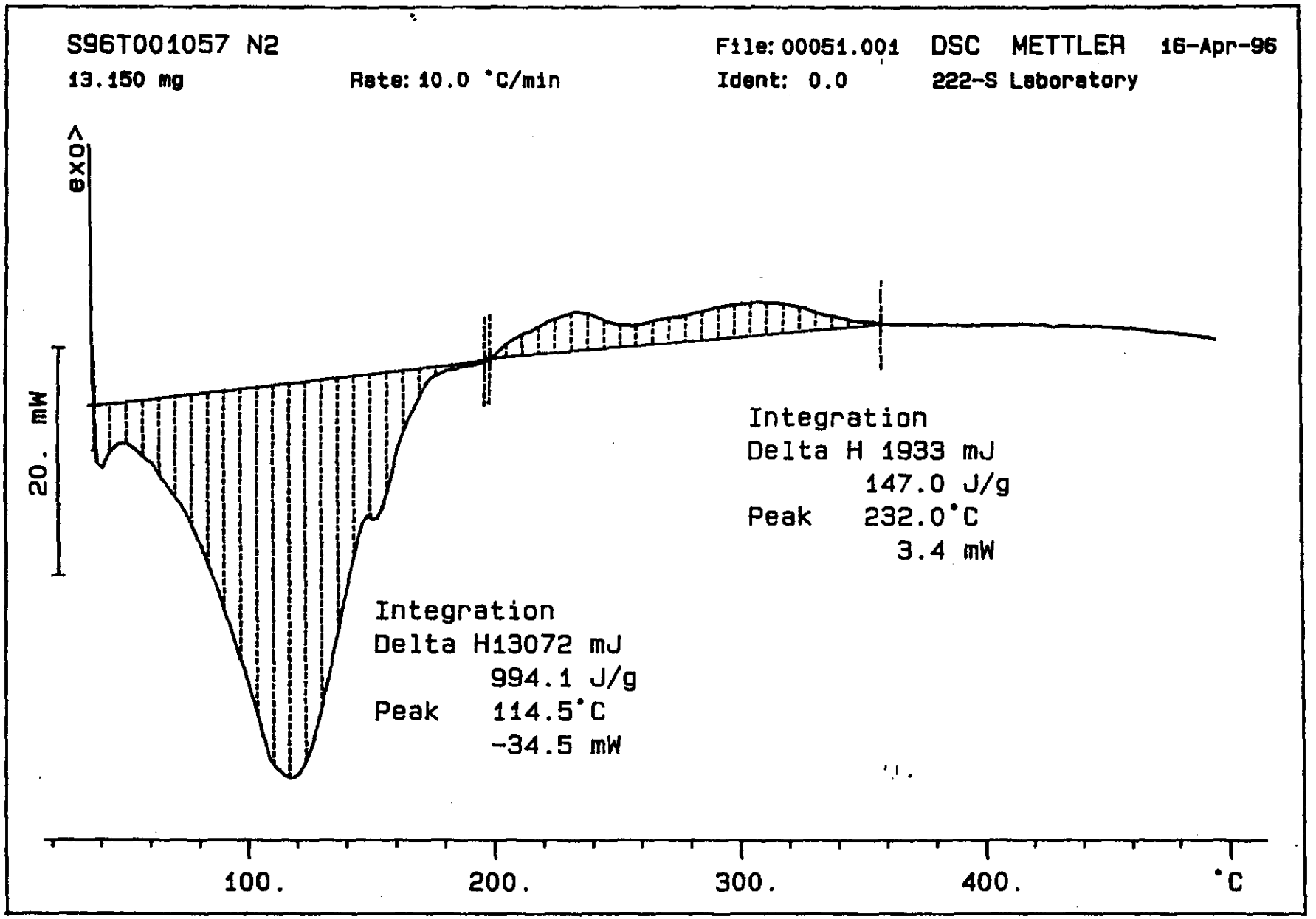
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

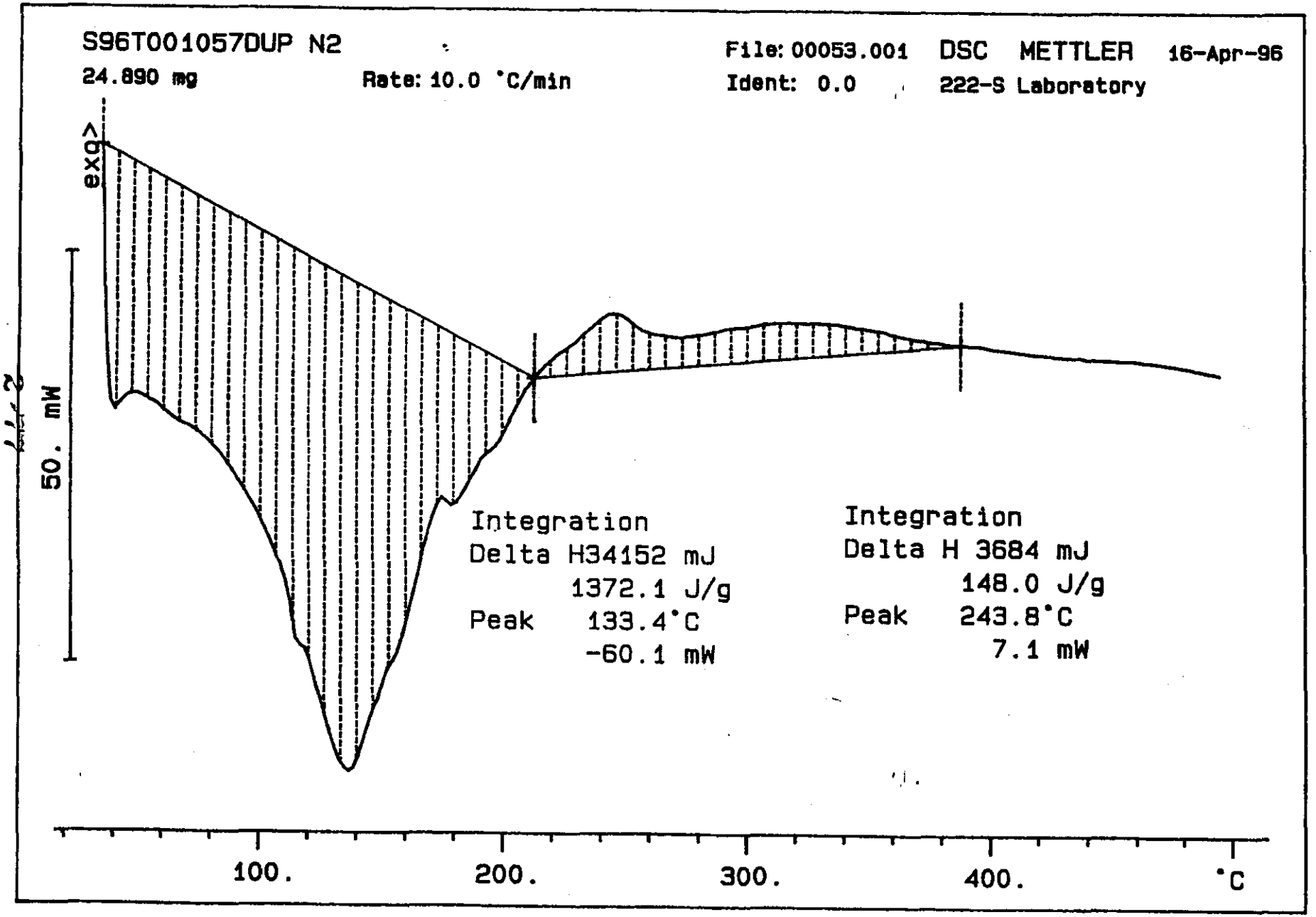
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 275 TO 280.

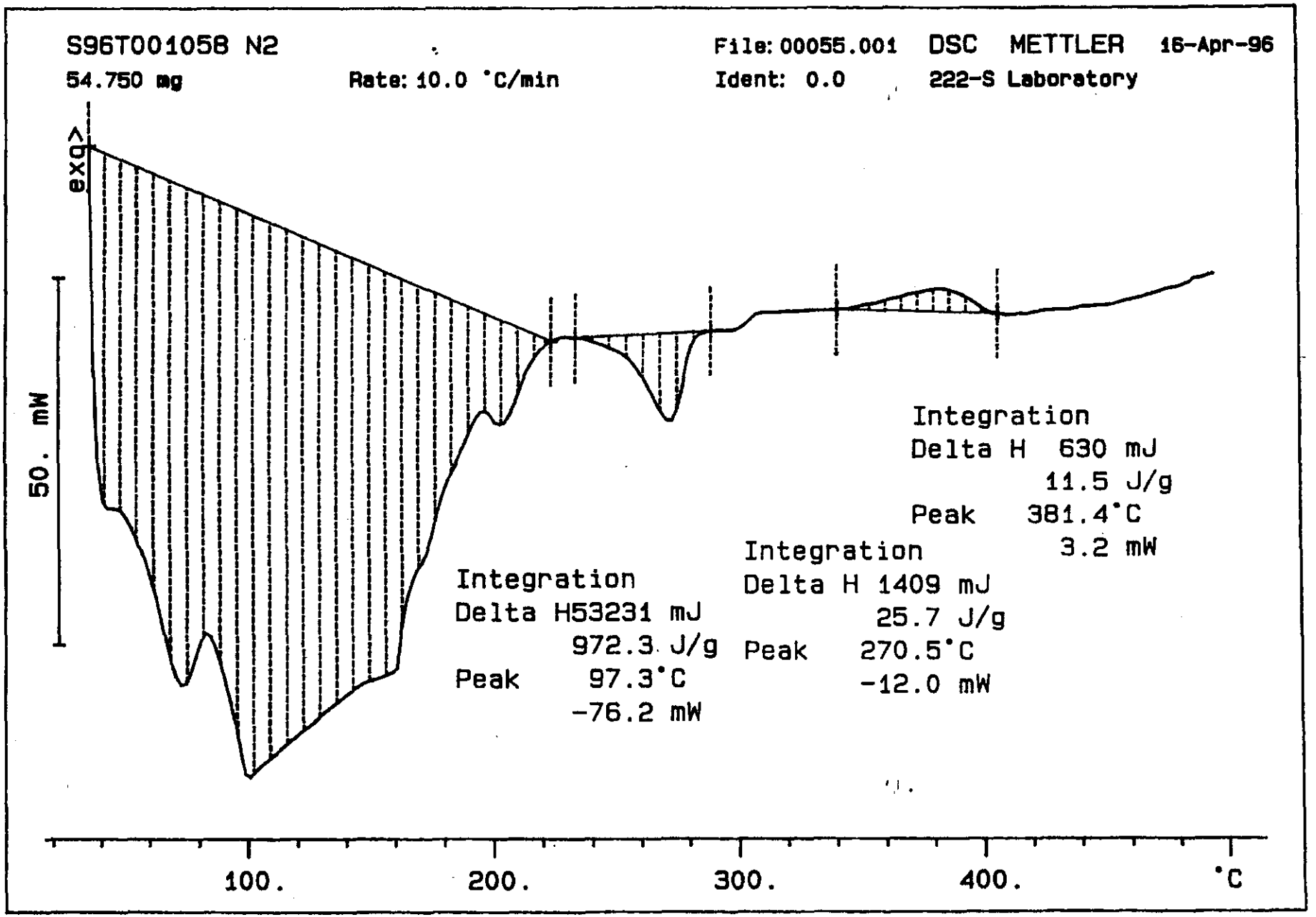


JAh Sp 4/16/96

04/17/96 14:09 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 017

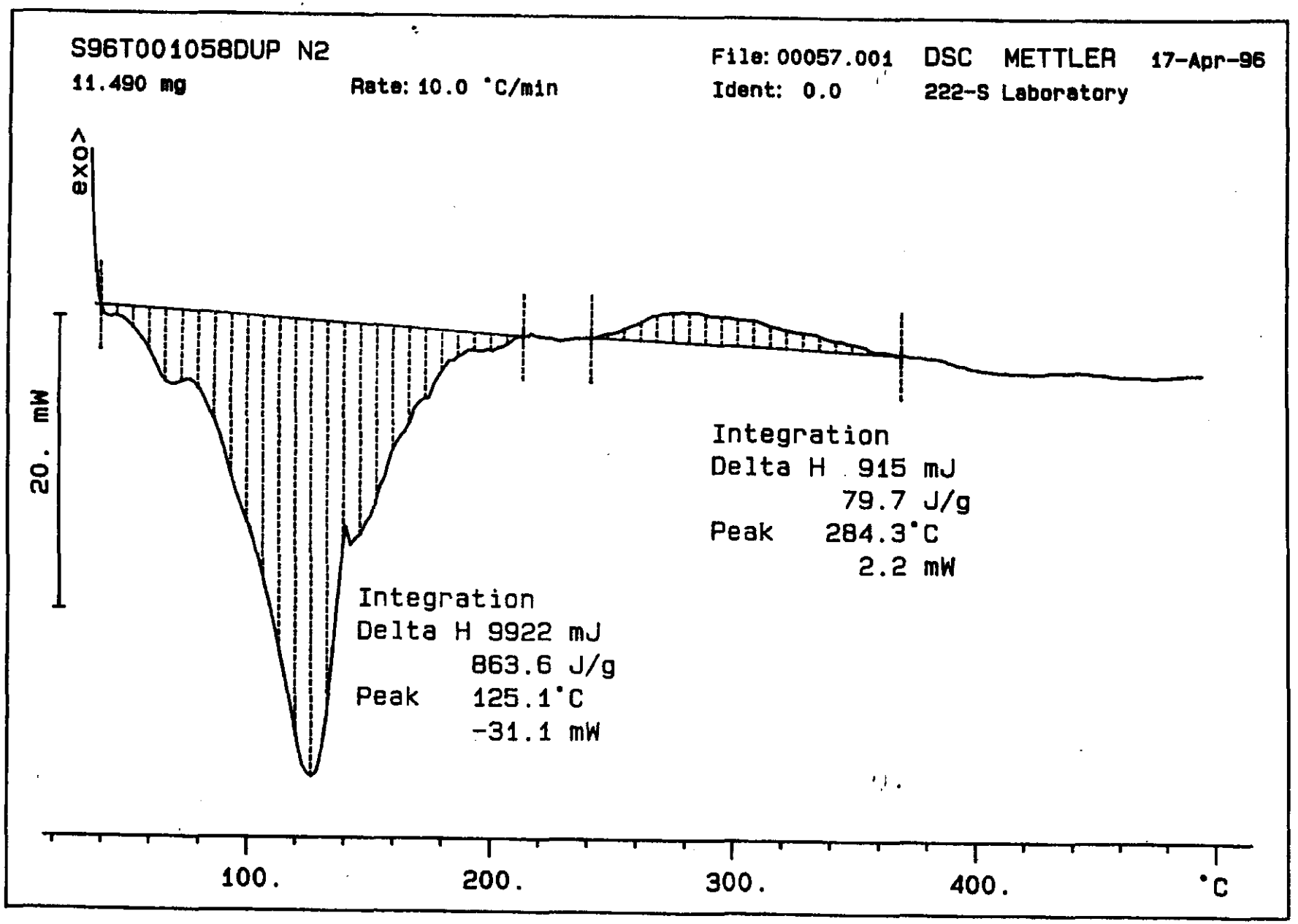

S96T001057 N2
13.150 mg
Rate: 10.0 °C/min
File: 00051.001
Ident: 0.0
DSC METTLER
222-S Laboratory
16-Apr-96
exo>
20. mW
Integration
Delta H 1933 mJ
147.0 J/g
Peak 232.0°C
3.4 mW
Integration
Delta H13072 mJ
994.1 J/g
Peak 114.5°C
-34.5 mW
100.
200.
300.
400.
°C

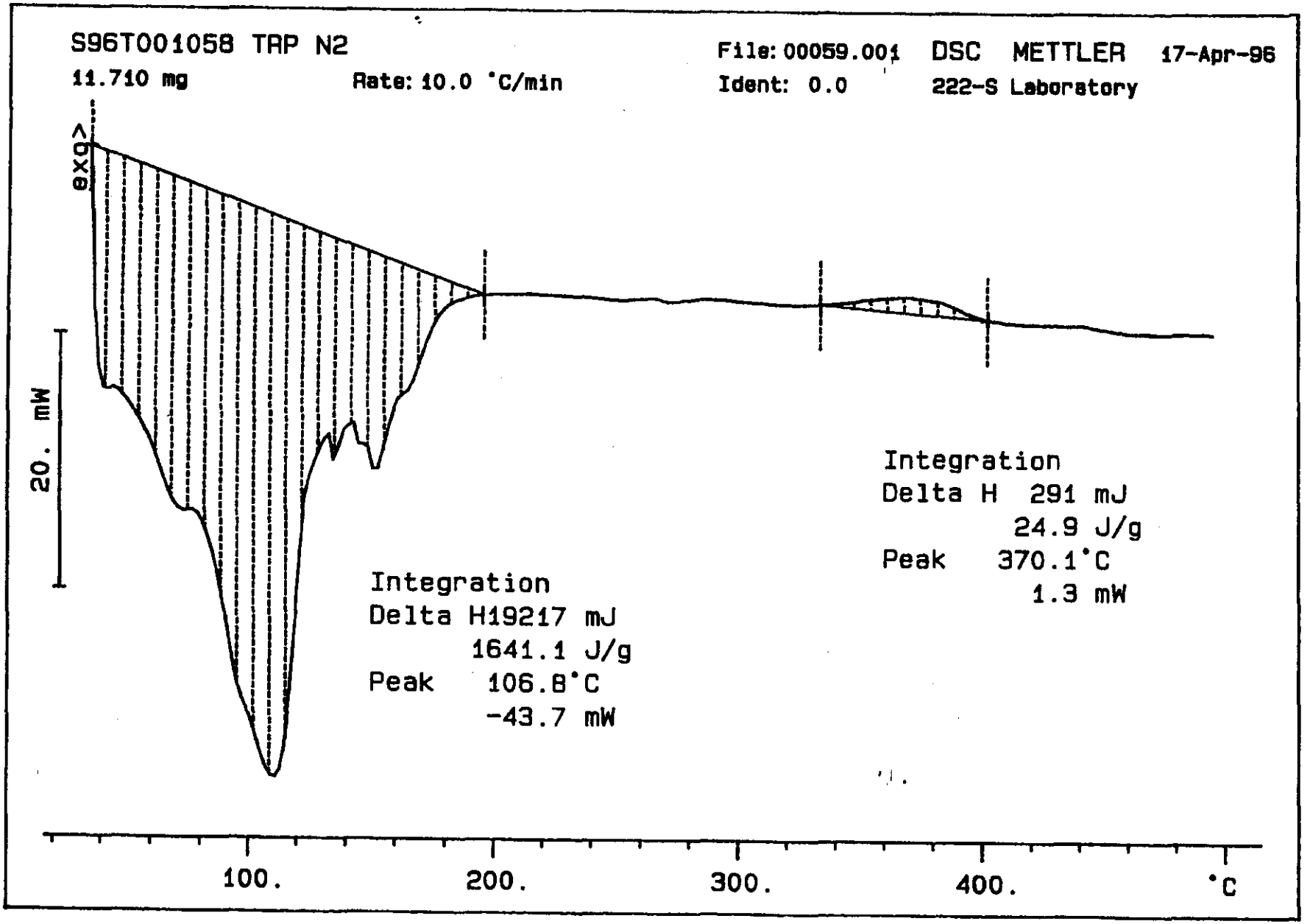

S96T001057DUP N2
24.890 mg
Rate: 10.0 °C/min
File: 00053.001
Ident: 0.0
DSC METTLER
222-S Laboratory
16-Apr-96
exo>
50. mW
Integration
Delta H34152 mJ
1372.1 J/g
Peak 133.4°C
-60.1 mW
Integration
Delta H 3684 mJ
148.0 J/g
Peak 243.8°C
7.1 mW
100.
200.
300.
400.
°C



04/17/96 14:11 ☎509 372 2929 WESTINGHOUSE →→→ MU-924 2008 ☎020

2-13


S96T001058DUP N2
11.490 mg
Rate: 10.0 °C/min
File: 00057.001
Ident: 0.0
DSC METTLER
222-S Laboratory
17-Apr-96
exo>
20. mW
Integration
Delta H 9922 mJ
863.6 J/g
Peak 125.1°C
-31.1 mW
Integration
Delta H 915 mJ
79.7 J/g
Peak 284.3°C
2.2 mW
100.
200.
300.
400.
°C


S96T001058 TRP N2
11.710 mg
Rate: 10.0 °C/min
File: 00059.001
Ident: 0.0
DSC METTLER
222-S Laboratory
17-Apr-96
exo>
20. mW
Integration
Delta H19217 mJ
1641.1 J/g
Peak 106.8°C
-43.7 mW
Integration
Delta H 291 mJ
24.9 J/g
Peak 370.1°C
1.3 mW
100.
200.
300.
400.
°C

LABCORE Data Entry Template for Worklist# 6515

Analyst: SMF **Instrument:** DSC0 1 **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID	28.45	30.2	N/A	Joules/g
96000126	U-107	2	SAMPLE	S96T001064	0		DSC-01	SOLID	N/A	Ø		Joules/g
96000126	U-107	3	DUP	S96T001064	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g
96000126	U-107	4	SAMPLE	S96T001065	0		DSC-01	SOLID	N/A	Ø		Joules/g
96000126	U-107	5	DUP	S96T001065	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 6515

Susie M. Fulton 3-18-96 1500
Analyst Signature **Date**

Linda Coulin 3/23/96
Analyst Signature **Date**

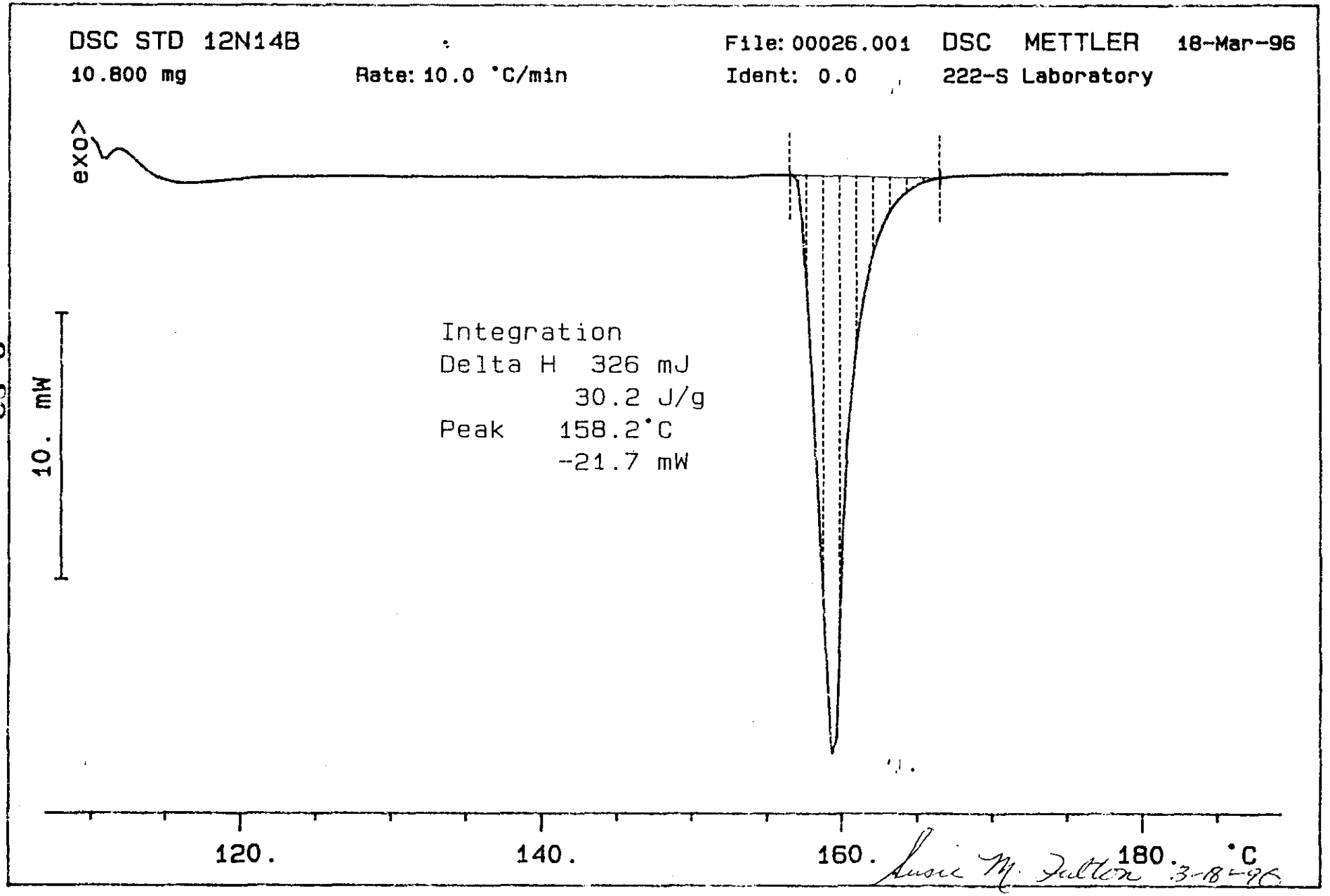
Verified by Blandina Valenzuela 3/25/96

S96T001064 produced a large endotherm at 139.3°C with a delta H ~~with~~ 3/19/96 BDV of 768.0J/g.

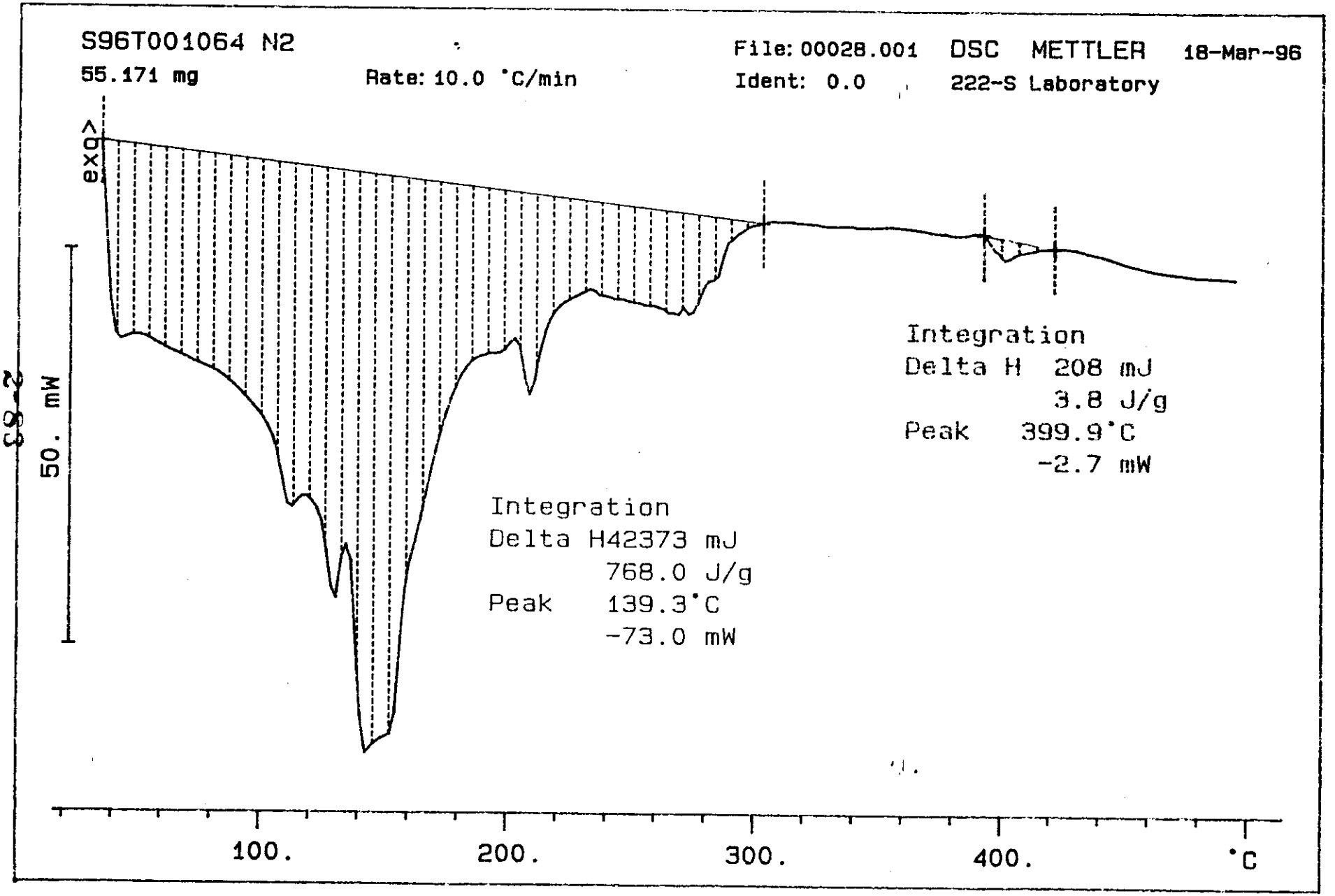
Data Entry Comments: S96T001065 produced two endotherms one at 111.3°C with a delta H of 894.4J/g and second at 262.3°C with a delta H of 41.3J/g.

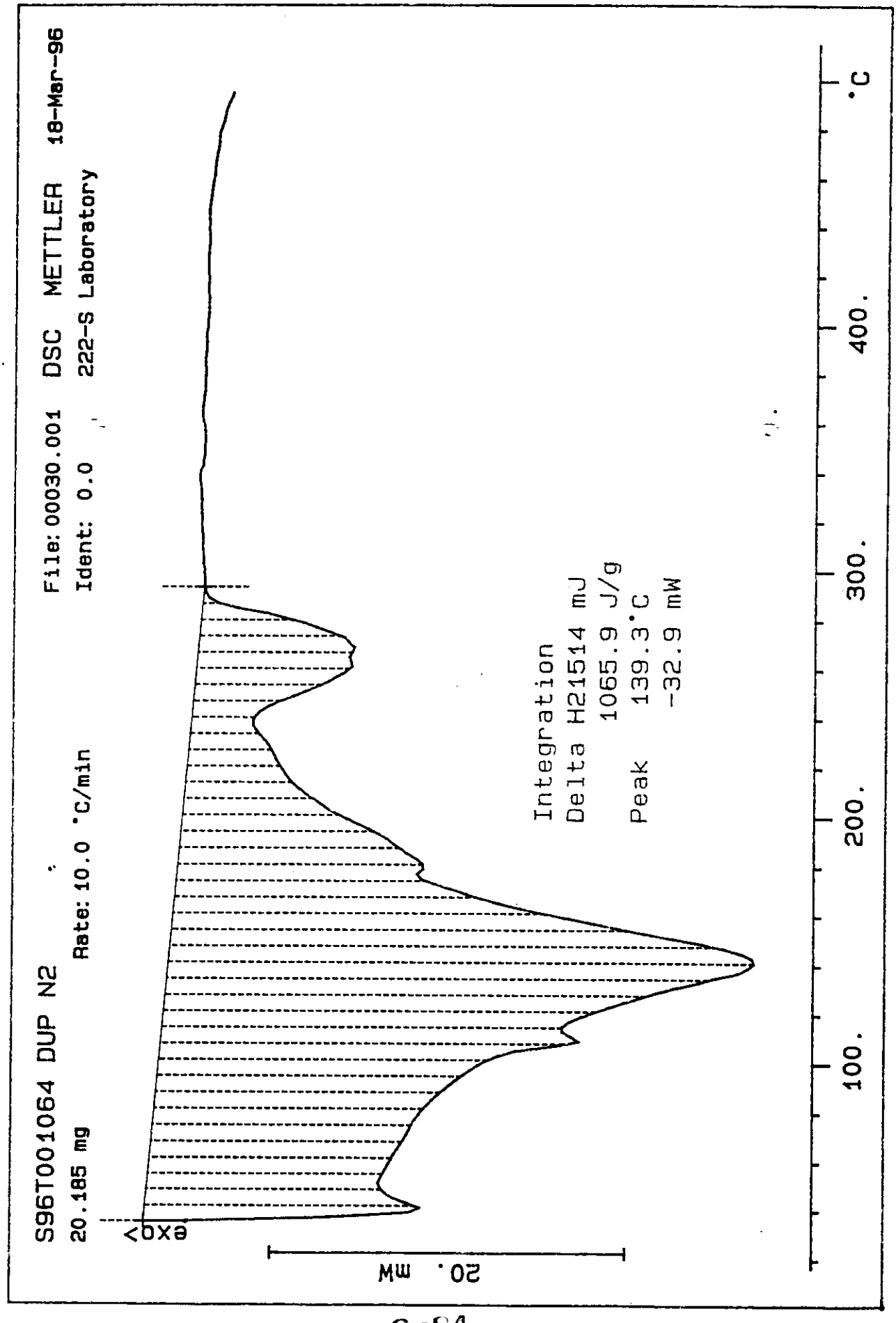
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

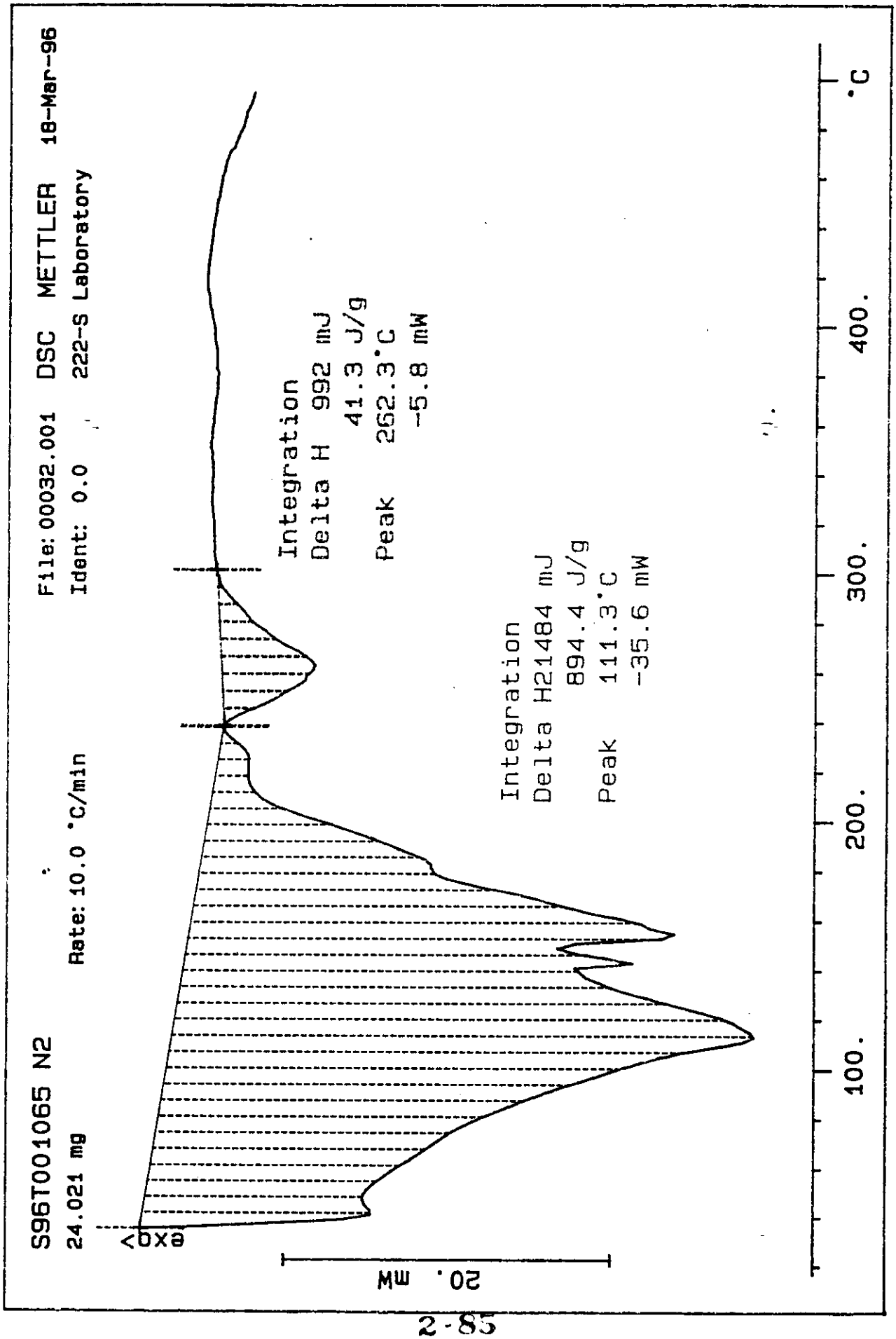
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 283 TO 286.

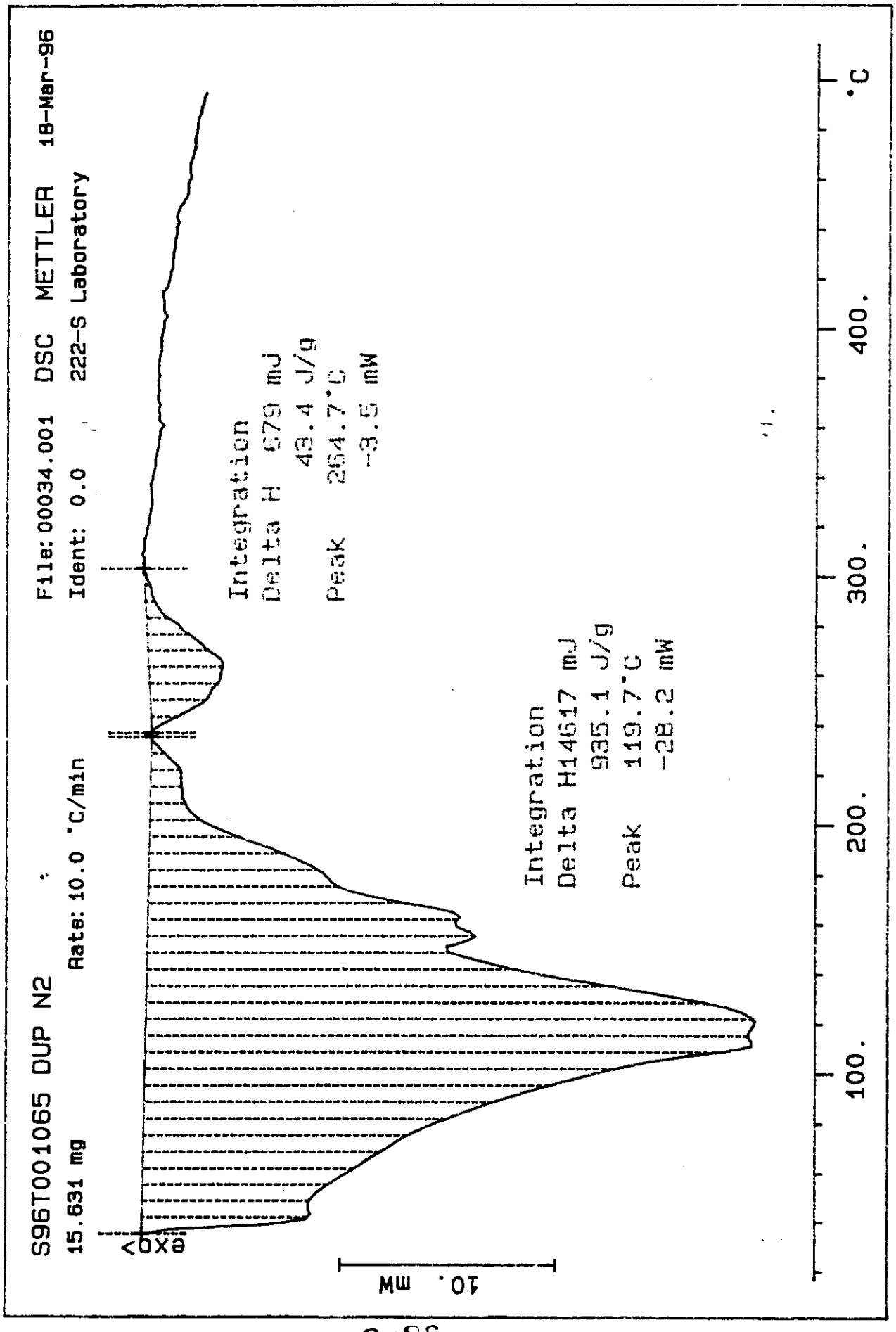


Susie M. Fulton 3-18-96


S96T001064 N2
55.171 mg
Rate: 10.0 °C/min
File: 00028.001
Ident: 0.0
DSC METTLER
222-S Laboratory
18-Mar-96
exo>
50. mW
Integration
Delta H 208 mJ
3.8 J/g
Peak 399.9°C
-2.7 mW
Integration
Delta H42373 mJ
768.0 J/g
Peak 139.3°C
-73.0 mW
100.
200.
300.
400.
°C


S96T001064 DUP N2
20.185 mg
Rate: 10.0 °C/min
File: 00030.001 DSC METTLER 18-Mar-96
Ident: 0.0 222-S Laboratory
Integration
Delta H21514 mJ
1065.9 J/g
Peak 139.3°C
-32.9 mW
exo>
20. mW
100.
200.
300.
400.
°C


S96T001065 N2
24.021 mg
Rate: 10.0 °C/min
File: 00032.001 DSC METTLER 18-Mar-96
Ident: 0.0 222-S Laboratory
Integration
Delta H 992 mJ
41.3 J/g
Peak 262.3°C
-5.8 mW
Integration
Delta H21484 mJ
894.4 J/g
Peak 111.3°C
-35.6 mW
exo>
20. mW
100.
200.
300.
400.
°C


S96T001065 DUP N2
15.631 mg
Rate: 10.0 °C/min
File: 00034.001 DSC METTLER 18-Mar-96
Ident: 0.0 222-S Laboratory
Integration
Delta H 679 mJ
43.4 J/g
Peak 264.7°C
-3.5 mW
Integration
Delta H14617 mJ
935.1 J/g
Peak 119.7°C
-28.2 mW
exo>
10. mW
100.
200.
300.
400.
°C

LABCORE Data Entry Template for Worklist# 6516

Analyst: SMF **Instrument:** DSC0 3 **Book #** 12N14B

Method: LA-514-114 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-03	SOLID	28.45	26.68	N/A	Joules/g
96000126	U-107	2 SAMPLE	S96T001068	0		DSC-03	SOLID	N/A	Ø		Joules/g
96000126	U-107	3 DUP	S96T001068	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g
		4 STD				DSC-03	SOLID	28.45	26.42	N/A	Joules/g
96000085	U-107	5 SAMPLE	S96T001143	0		DSC-03	SOLID	N/A	Ø		Joules/g
96000085	U-107	6 DUP	S96T001143	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g
96000085	U-107	7 TRIPL	S96T001143	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 6516

See attached for signatures

Analyst Signature **Date** 4/23/96

Analyst Signature **Date**

Verified by Blandina Valenzuela 4/29/96

S96T001068 produced one large endotherm at 135.99°C with a delta H of 1218.6 J/g.

Data Entry Comments: S96T001143 produced two endotherms one at 101.99°C with a delta H of 141.82 J/g and second at 304.95°C with a delta H of 134.18 J/g. The ΔH was recalculated to include the correct samples weight. 4/23/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
03/14/96 14:40

LABCORE Data Entry Template for Worklist# 6516

Analyst: SMF **Instrument:** DSC0 _____ **Book #** 12N14B

Method: LA-514-113 Rev/Mod _____

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID			N/A	Joules/g
96000126	U-107	2	SAMPLE	S96T001068	0		DSC-01	SOLID	N/A			Joules/g
96000126	U-107	3	DUP	S96T001068	0		DSC-01	SOLID			N/A	Joules/g
96000085	U-107	4	SAMPLE	S96T001143	0		DSC-01	SOLID	N/A			Joules/g
96000085	U-107	5	DUP	S96T001143	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 6516

Susie M. Fulton 4-17-96
Analyst Signature **Date**

RS McCown 4/17/96

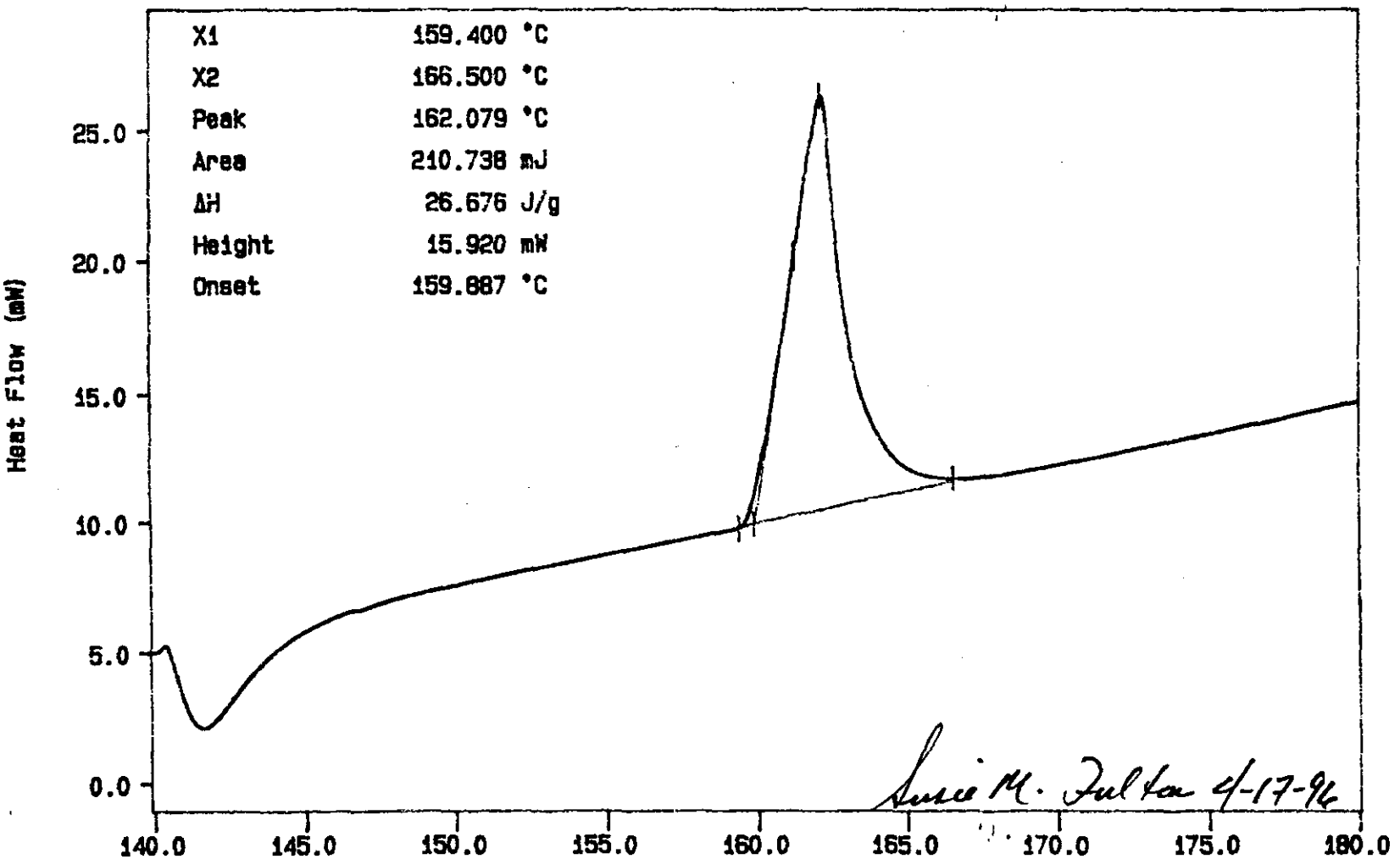
R E Wright 4/22/96
Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: IND041701 Wed Apr 17 06:57:58 1996
Sample Weight: 7.900 mg
12N14-B INDIUM AT 10C\MIN

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 288 TO 295



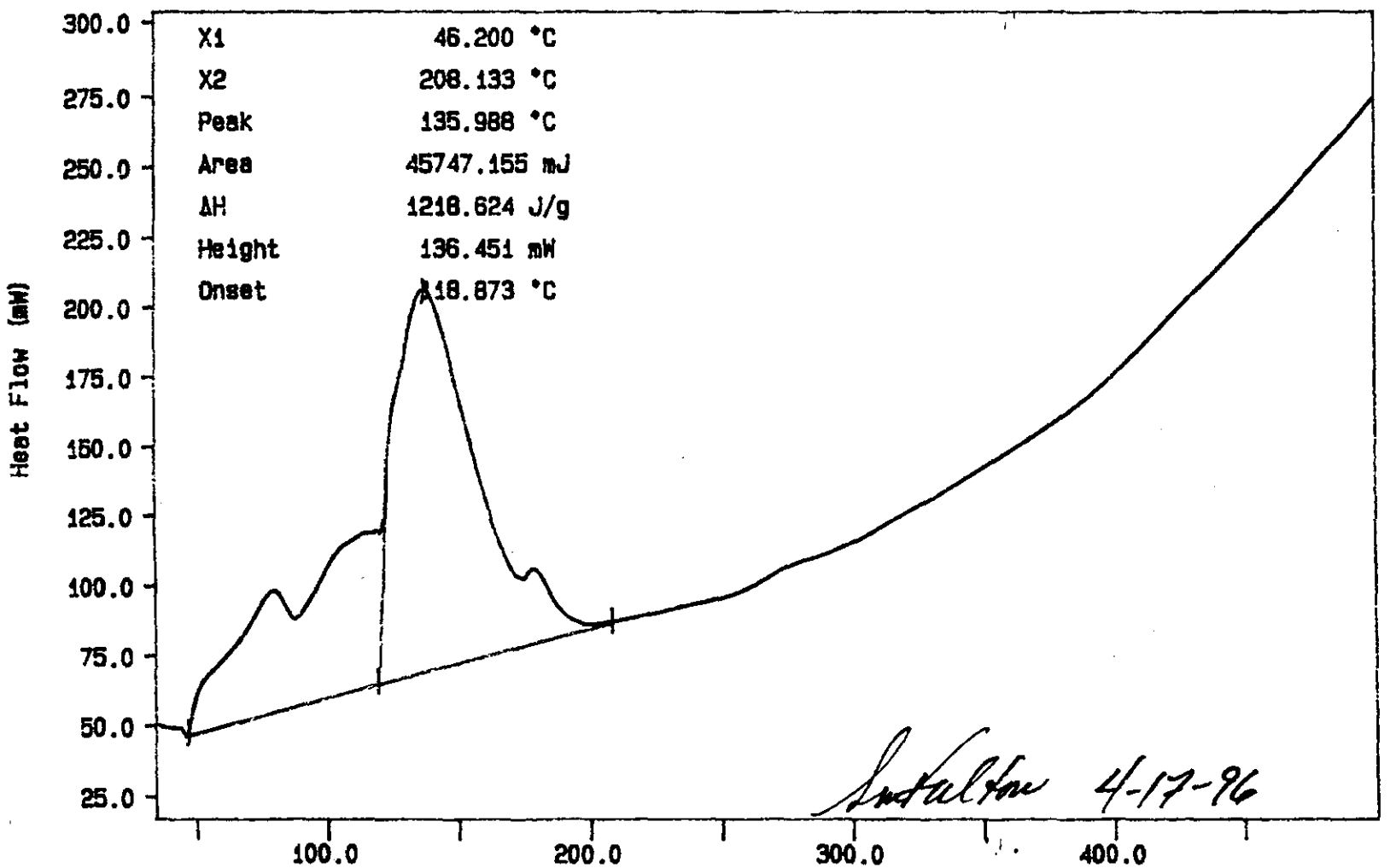
N2, EXOTHERM DOWN
TEMP1: 140.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 180.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 17 06:59:20 1996

2-89

04/23/96 10:10 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 019

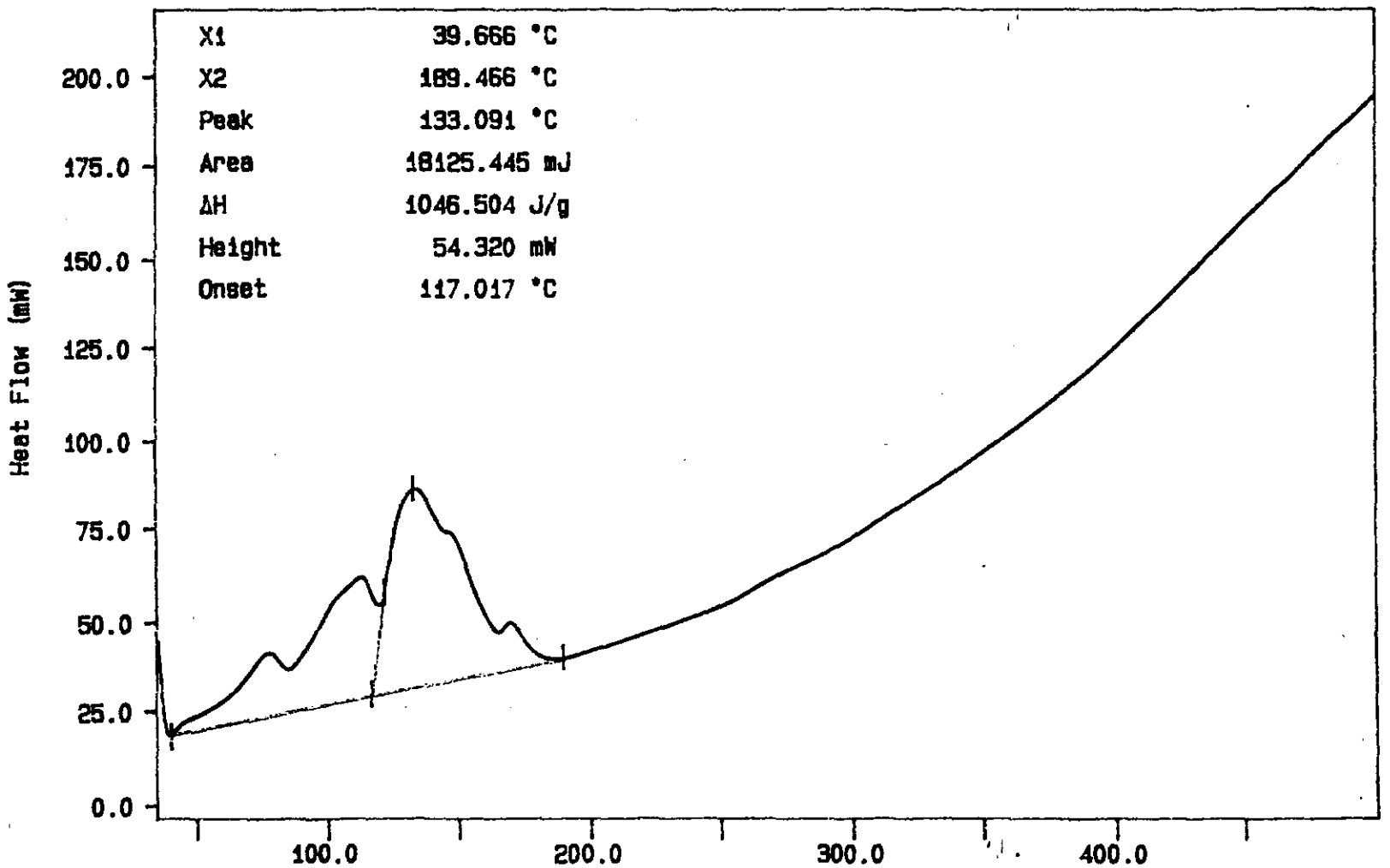
Curve 1: DSC
File info: SAM041701 Wed Apr 17 07:49:42 1996
Sample Weight: 37.540 mg
S96T001068



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 17 08:32:53 1996

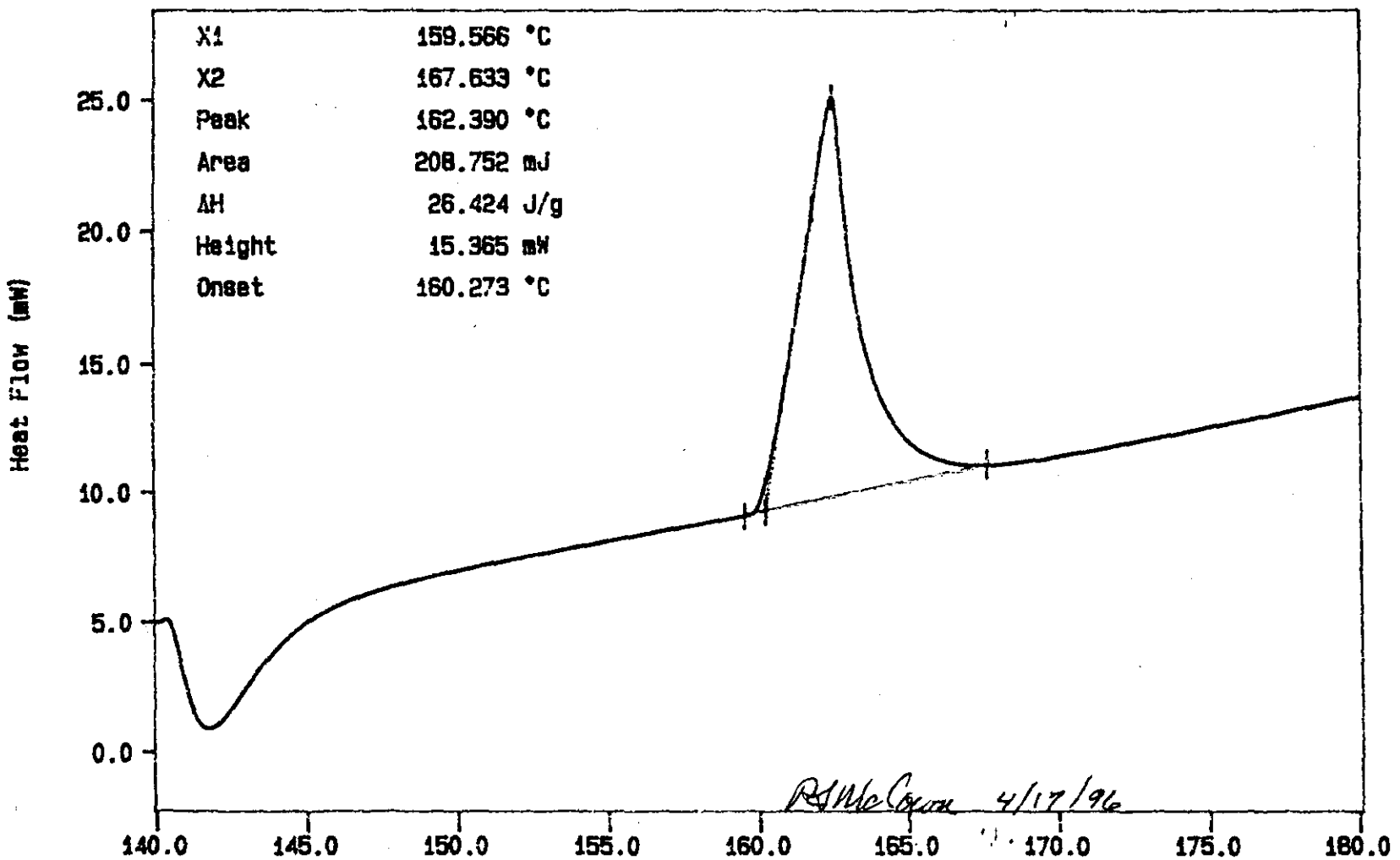
Curve 1: DSC
File info: SAM041702 Wed Apr 17 09:29:00 1996
Sample Weight: 17.320 mg
S96T001068 DUP



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 17 09:34:05 1996

Curve 1: DSC
File info: IND041705 Wed Apr 17 18:29:17 1996
Sample Weight: 7.900 mg
12N14-B INDIUM AT 10C\MIN

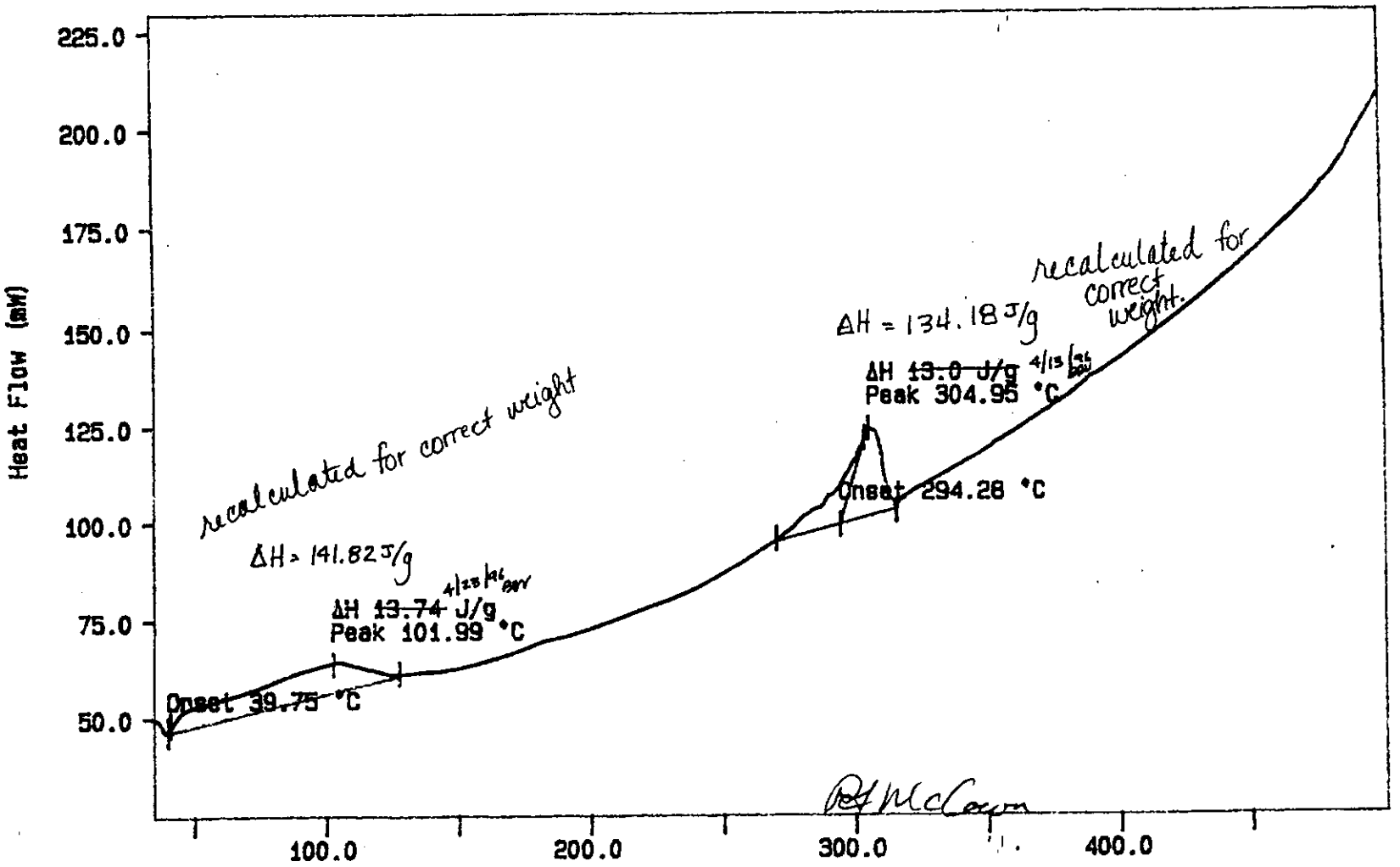


N2, EXOTHERM DOWN
TEMP1: 140.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 180.0 C

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 17 18:33:20 1996

Curve 1: DSC
File info: SAM041703 Wed Apr 17 20:09:28 1996
Sample Weight: 187.130 mg
S96T001143 SAM

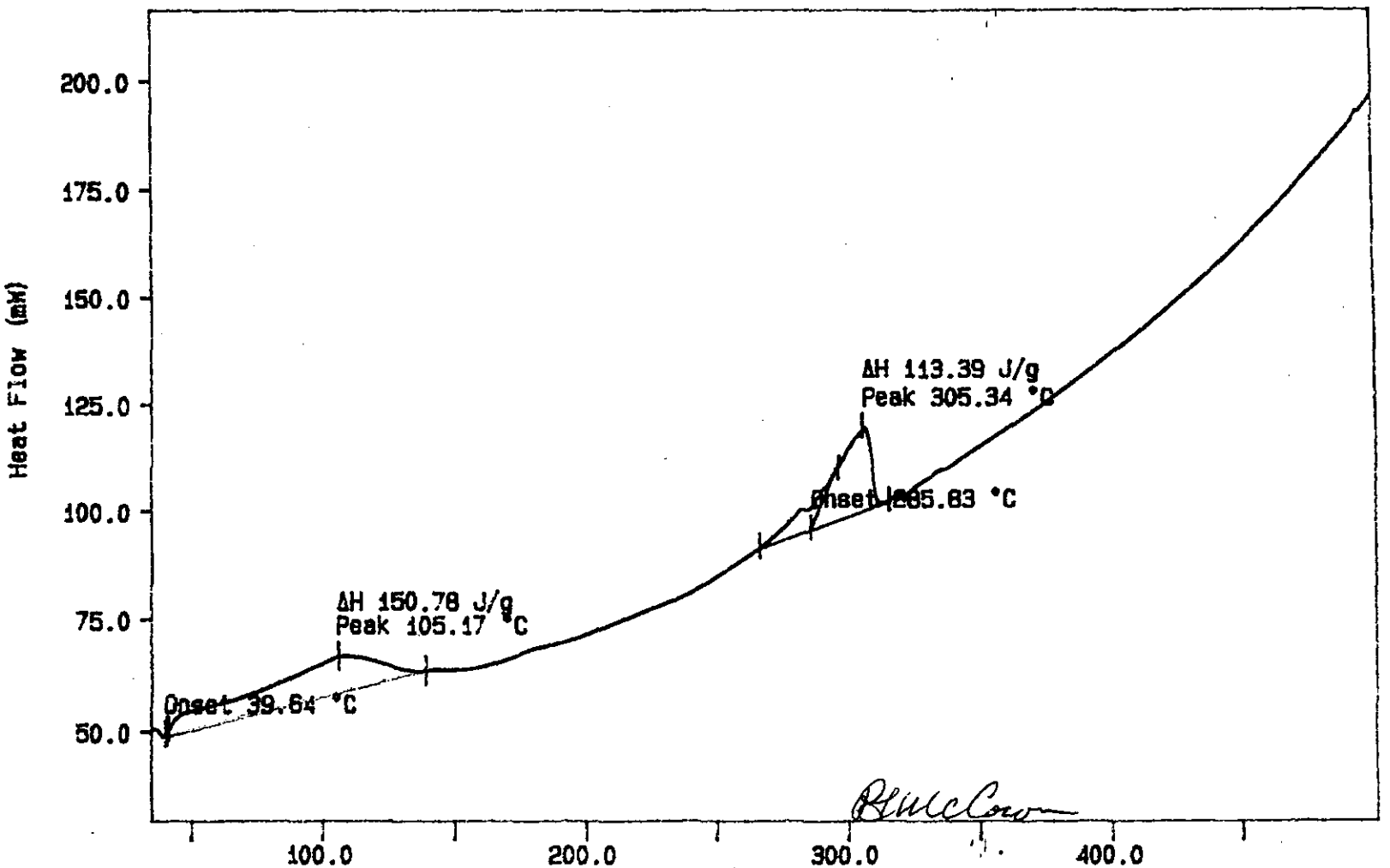
should be 18.130 mg
PJM



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 17 20:39:21 1996

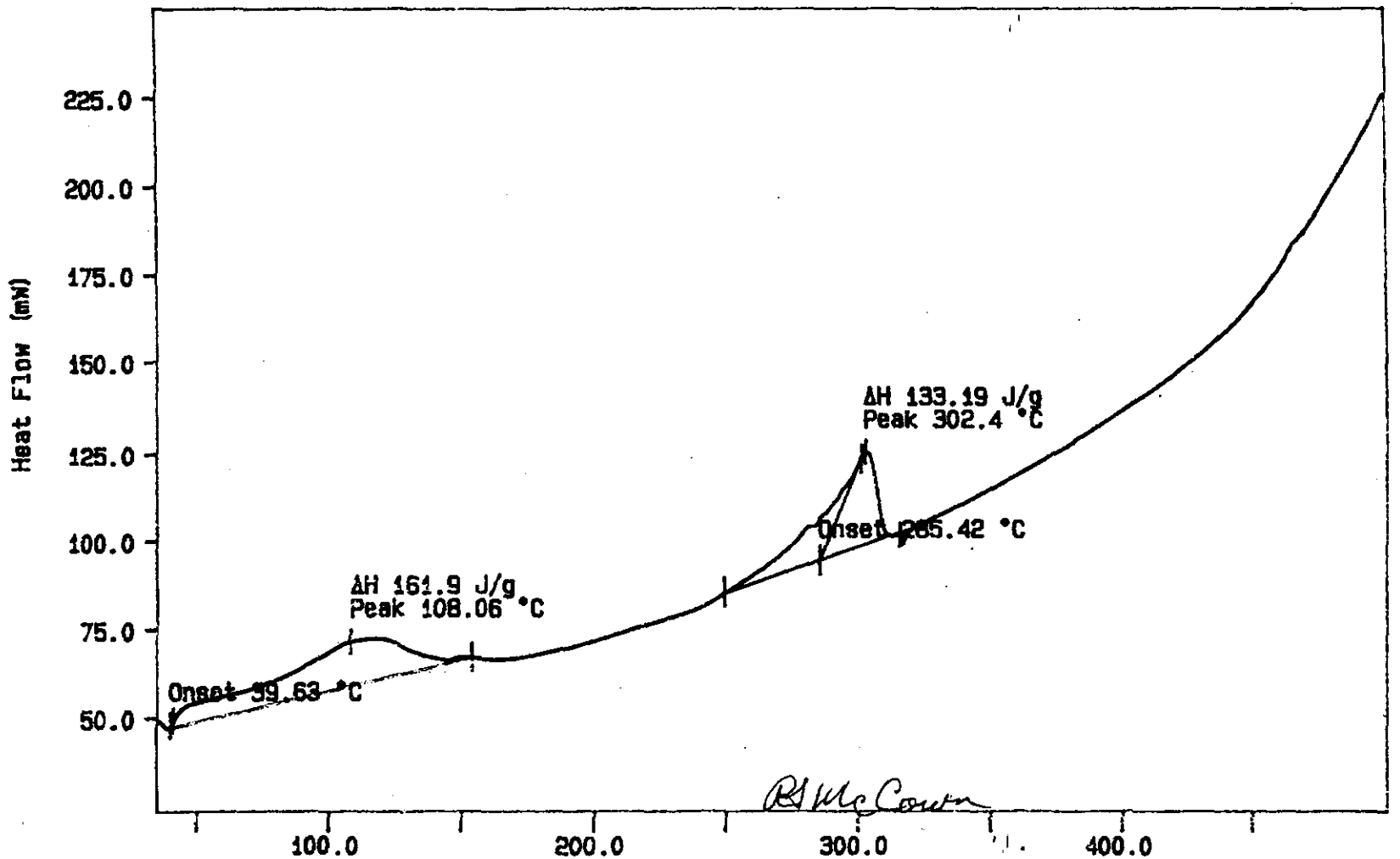
Curve 1: DSC
File info: SAM041704 Wed Apr 17 21:41:59 1996
Sample Weight: 19.070 mg
S96T001143 DUP



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 17 21:47:22 1996

Curve 1: DSC
File info: SAH041705 Wed Apr 17 23:05:39 1996
Sample Weight: 27.430 mg
S96T001143 TRIP



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 800.0 C

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 17 23:09:02 1996

worklistrpt Version 2.1 05/15/95
04/08/96 12:07

LABCORE Data Entry Template for Worklist# 6624

Analyst: RDM **Instrument:** DSC0 3 **Book #** 12N14B

Method: LA-514-114 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-03	SOLID	28.45	28.17	N/A	Joules/g
96000126	U-107	2	SAMPLE	S96T001128	0		DSC-03	SOLID	N/A	Ø		Joules/g
96000126	U-107	3	DUP	S96T001128	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 6624

Blan See attached for signtatures 4-8-96 RDM
Analyst Signature **Date**

[signature] 4-9-96
Analyst Signature **Date**

Verified by H. Anastos 4-11-96

Data Entry Comments: Sample produced two endotherms one at 145.45°C with a delta H of 423.48 J/g and second at 281.6°C with a delta H of 73.16 J/g.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
03/18/96 13:29

LABCORE Data Entry Template for Worklist# 6624

Analyst: RCM **Instrument:** DSC0 _____ **Book #** ~~7GN~~ 4/5/96 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID			N/A	Joules/g
96000126	U-107	2	SAMPLE	S96T001128	0		DSC-01	SOLID	N/A			Joules/g
96000126	U-107	3	DUP	S96T001128	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 6624

RCMyers 4/5/96

Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

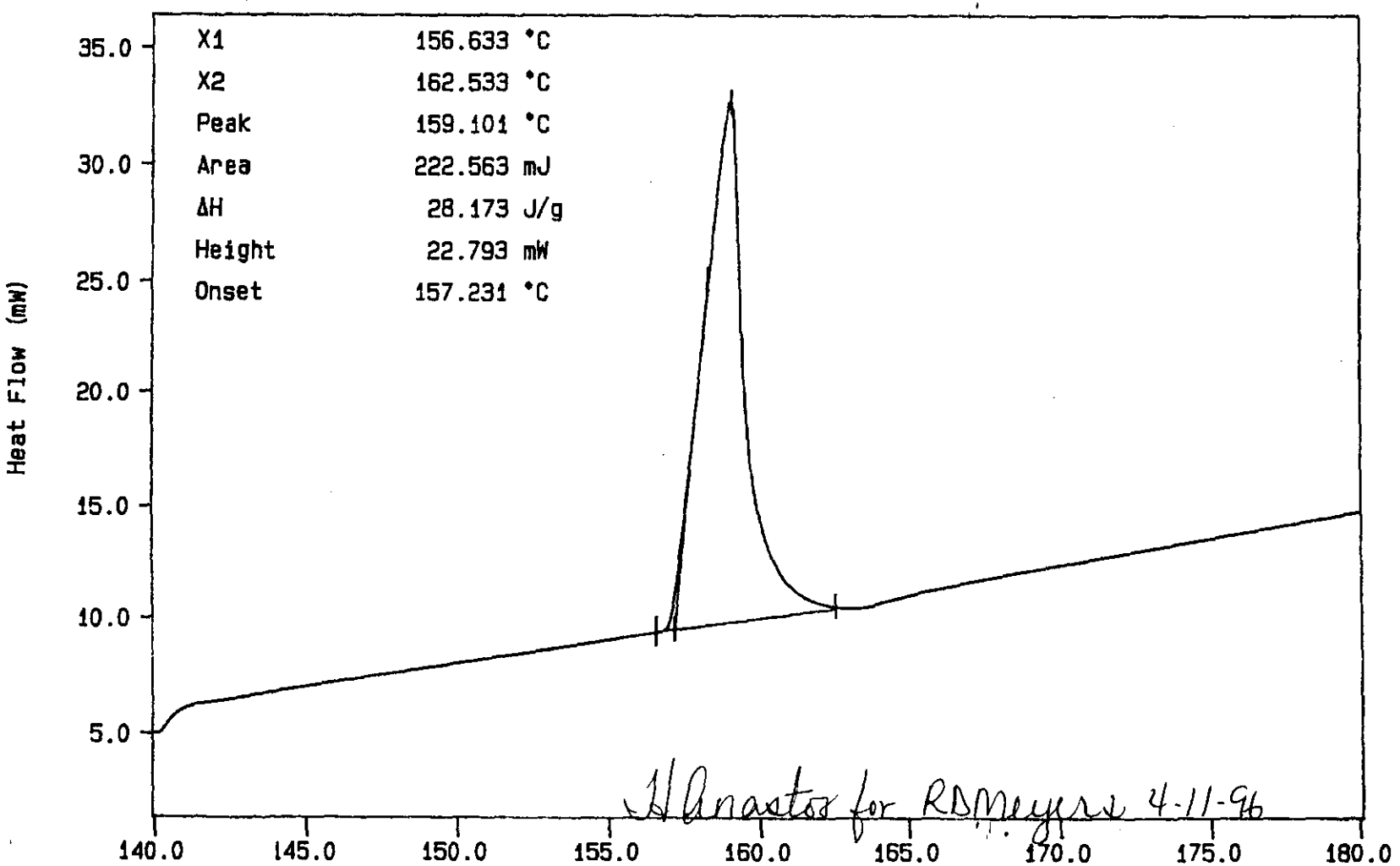
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

04/08/96 14:56 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 003

2-98

Curve 1: DSC
File info: IND040401 Thu Apr 4 06:40:50 1996
Sample Weight: 7.900 mg
12N14-B INDIUM AT 10C\MIN

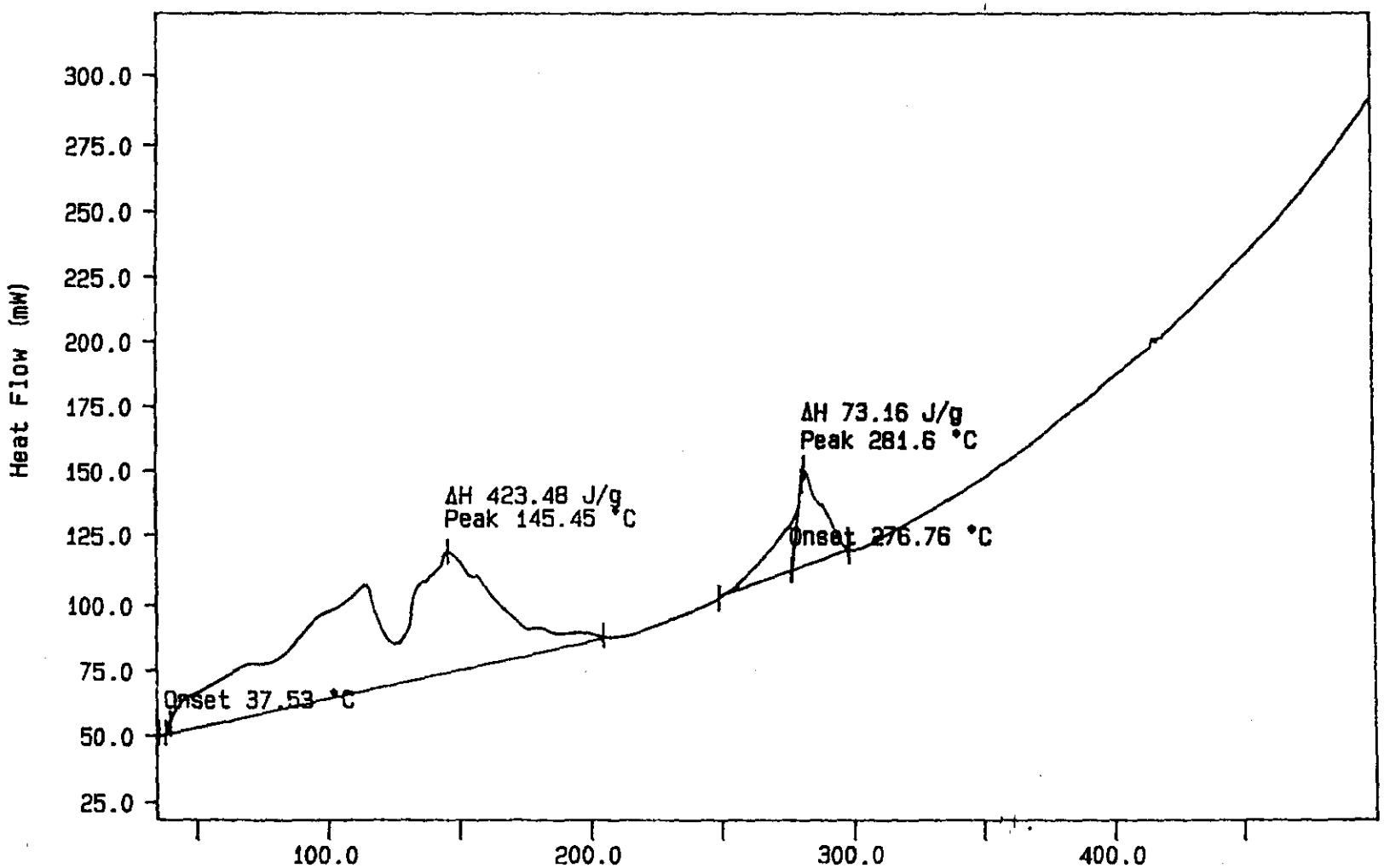
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-98 TO 2-100



N2, EXOTHERM DOWN
TEMP1: 140.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 180.0 C

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Fri Apr 5 01:12:45 1996

Curve 1: DSC
File info: sam040401 Thu Apr 4 22:24:09 1996
Sample Weight: 50.100 mg
S96T001128



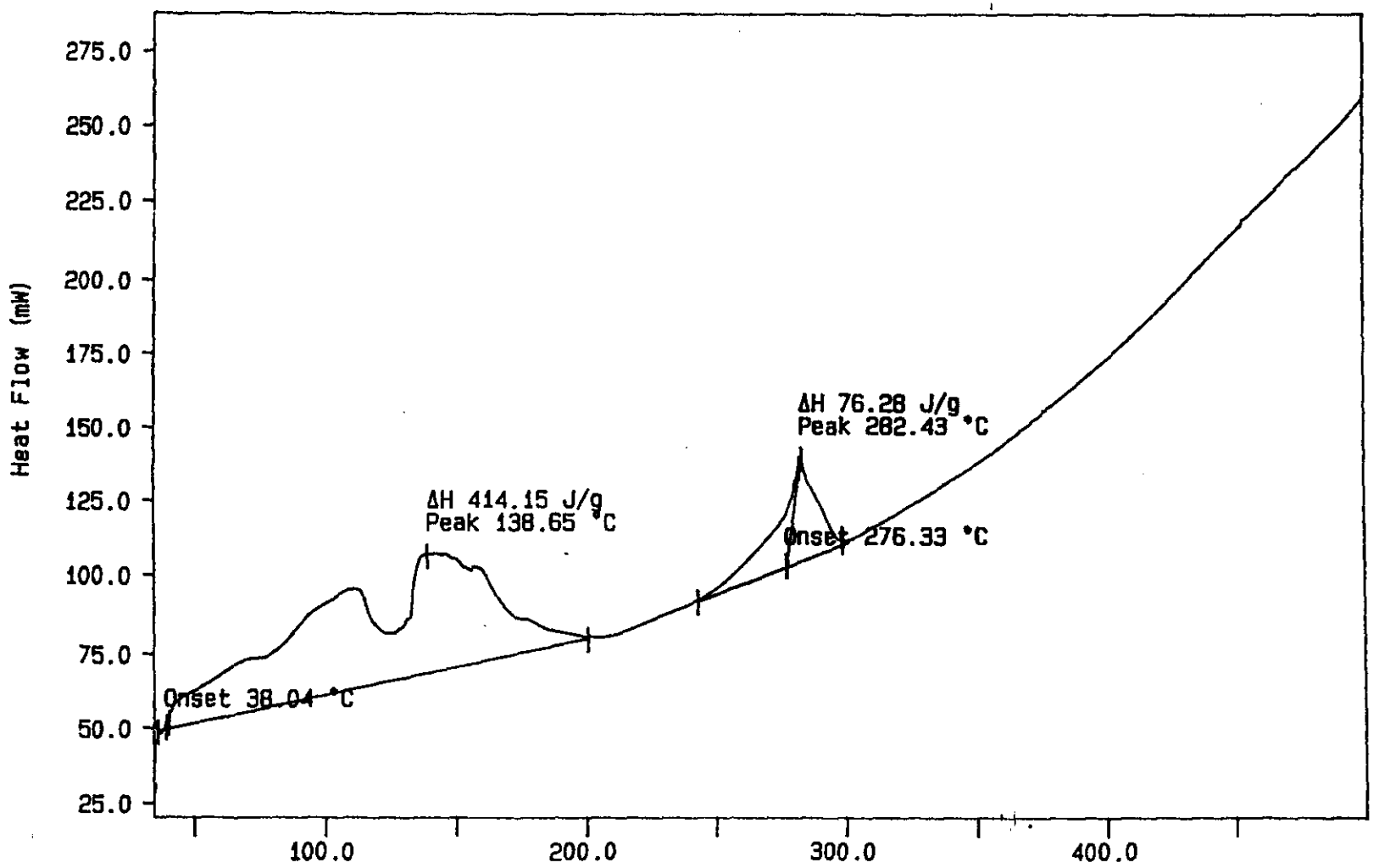
exotherm down, N2 purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

rd meyers
PERKIN-ELMER
7 Series Thermal Analysis System
Fri Apr 5 00:51:34 1996

04/08/96 14:57 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 005

Curve 1: DSC
File info: sam040501 Fri Apr 5 01:42:46 1996
Sample Weight: 45.360 mg
S96T001128 DUP



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

rd meyers
PERKIN-ELMER
7 Series Thermal Analysis System
Fri Apr 5 02:10:20 1996

2-160

worklistrpt Version 2.1 05/15/95
04/03/96 11:38

LABCORE Data Entry Template for Worklist# 6627

Analyst: RDM **Instrument:** DSC0 1 **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID	28.45	32.0	N/A	Joules/g
96000126	U-107	2	SAMPLE	S96T001059	0		DSC-01	SOLID	N/A	Ø		Joules/g
		3	STD				DSC-01	SOLID	28.45	32.4	N/A	Joules/g
96000126	U-107	4	DUP	S96T001059	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g
		5	STD				DSC-01	SOLID	28.45	32.4	N/A	Joules/g
96000126	U-107	6	SAMPLE	S96T001070	0		DSC-01	SOLID	N/A	Ø		Joules/g
96000126	U-107	7	DUP	S96T001070	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist# 6627

See Attached for Signatures
Analyst Signature **Date**

Linda Conk 4/11/96
Analyst Signature **Date**

Verified by Blandina Valenzuela 4/15/96

S96T001059 produced two endotherms, one at 95.6°C with a delta H of 794.0 J/g and second at 286.0°C with a delta H of 88.1 J/g.

Data Entry Comments: S96T001070 produced one endotherm at 103.3°C with a delta H of 1801.0 J/g.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
03/18/96 13:31

LABCORE Data Entry Template for Worklist# 6627

Analyst: RMM **Instrument:** DSC01 **Book #** 12N14-B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID	28.45	32.0	N/A	Joules/g
96000126	U-107	2	SAMPLE	S96T001059	0		DSC-01	SOLID	N/A			Joules/g
96000126	U-107	3	DUP	S96T001059	0		DSC-01	SOLID			N/A	Joules/g
96000126	U-107	4	SAMPLE	S96T001070	0		DSC-01	SOLID	N/A			Joules/g
96000126	U-107	5	DUP	S96T001070	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 6627

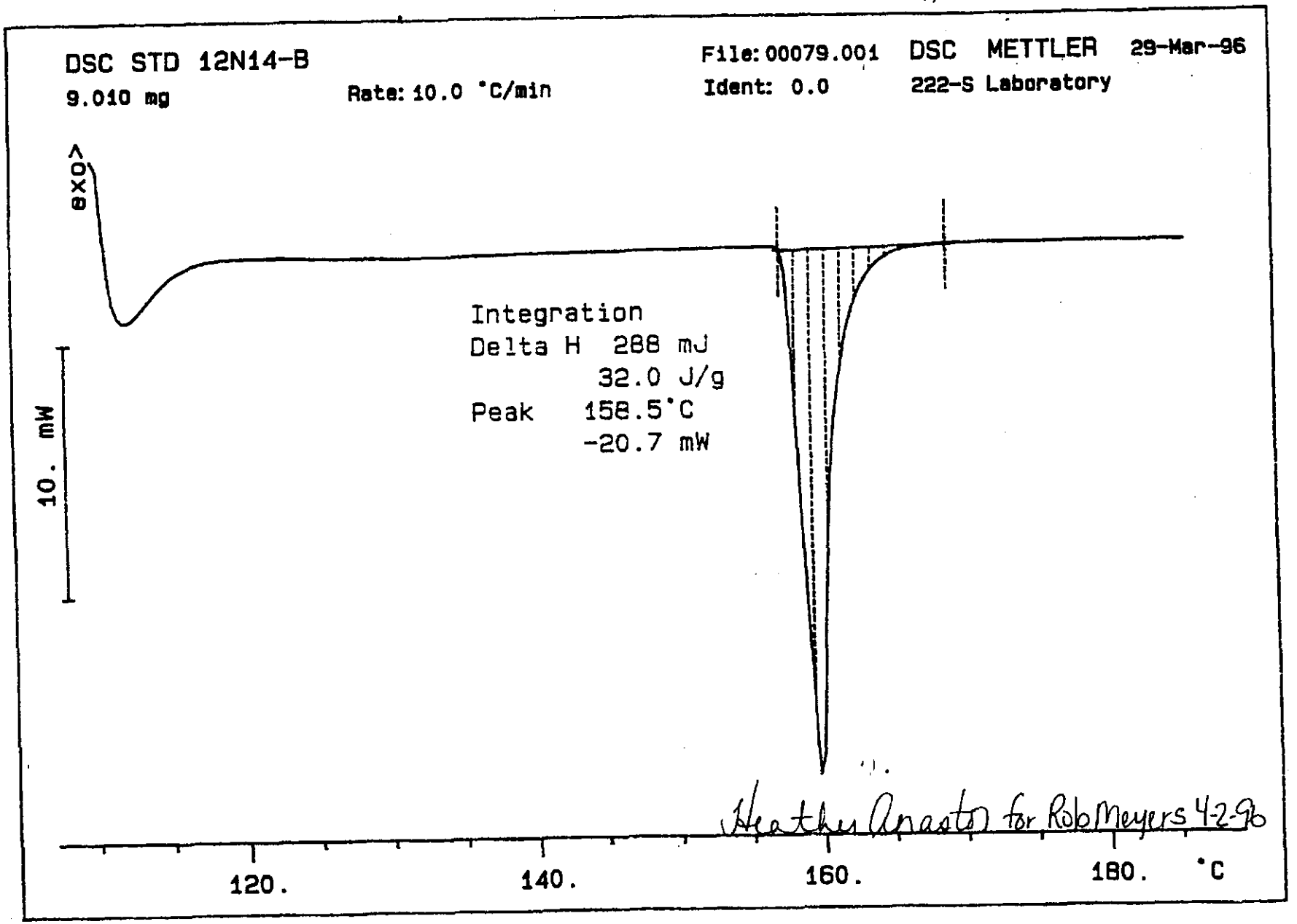
RMMyn 3/21/96
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

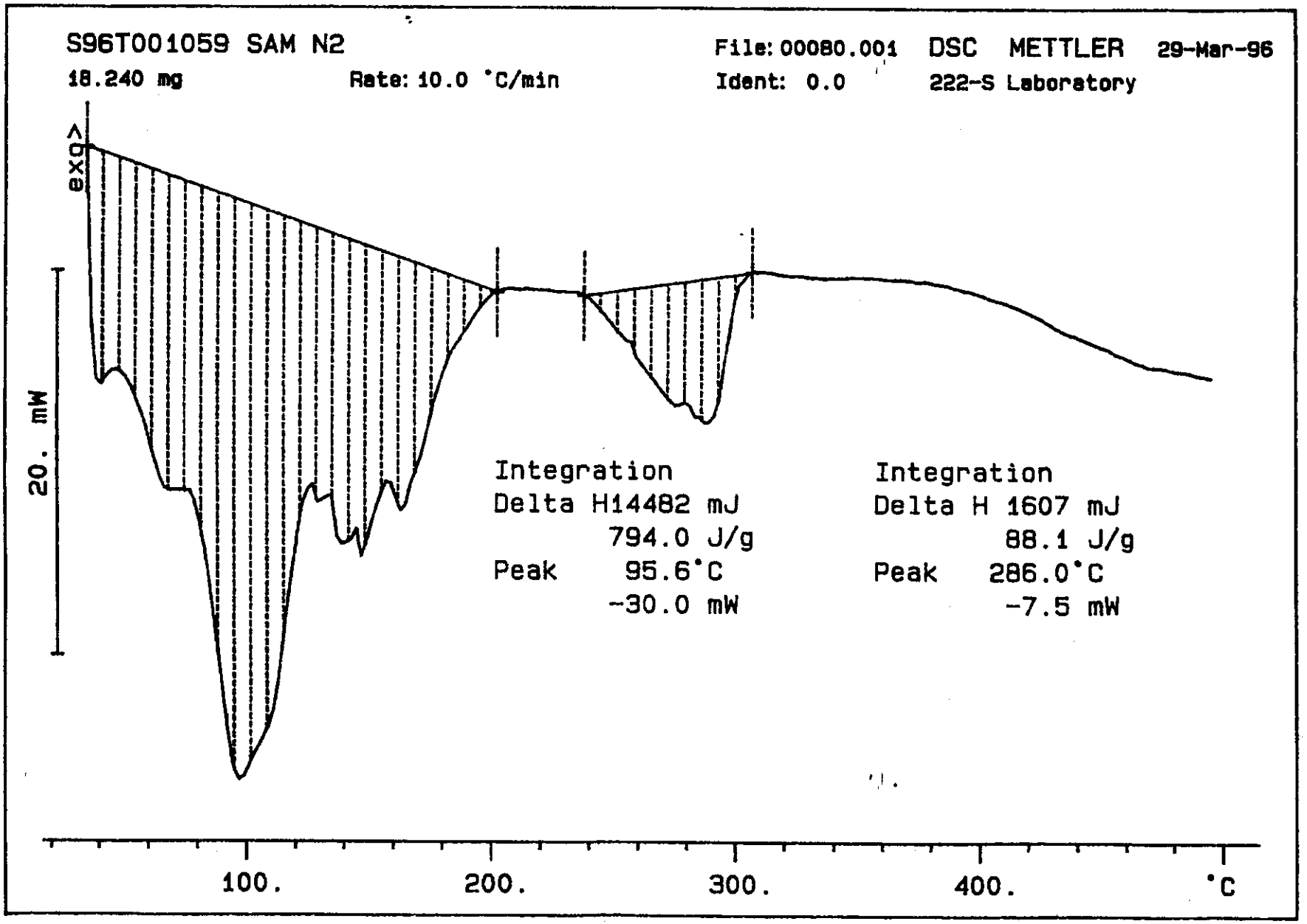
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

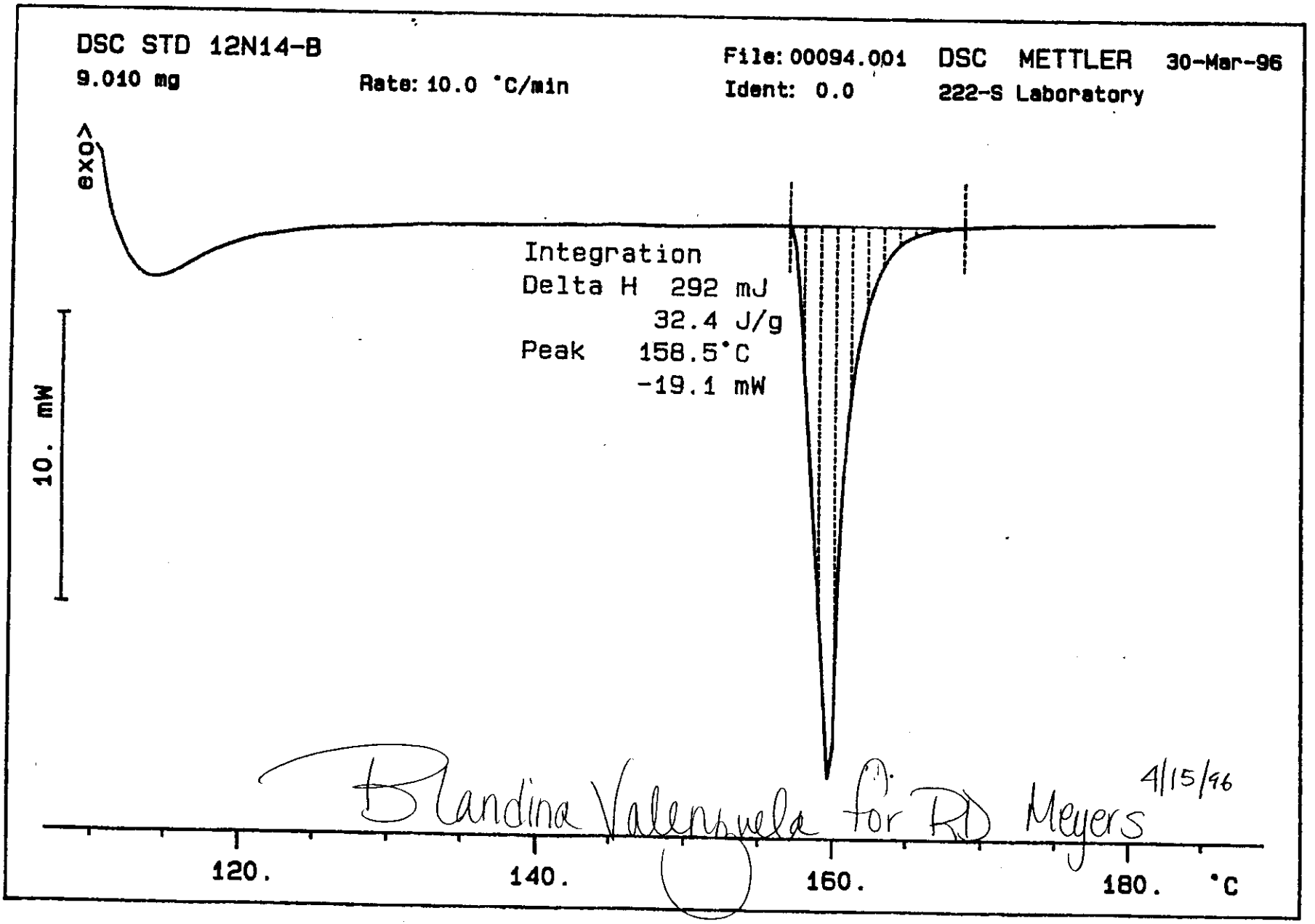
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-103 TO 2-109

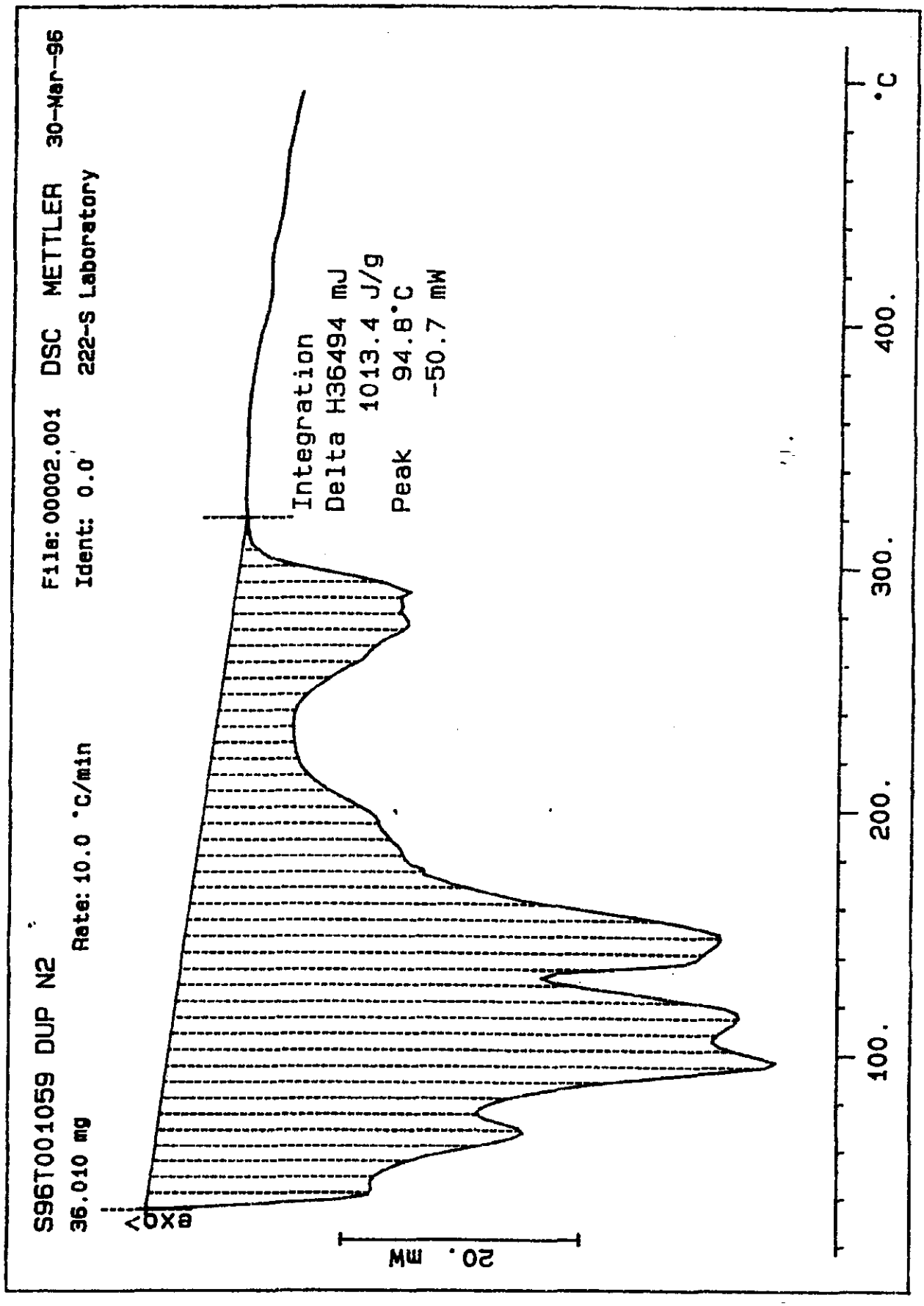


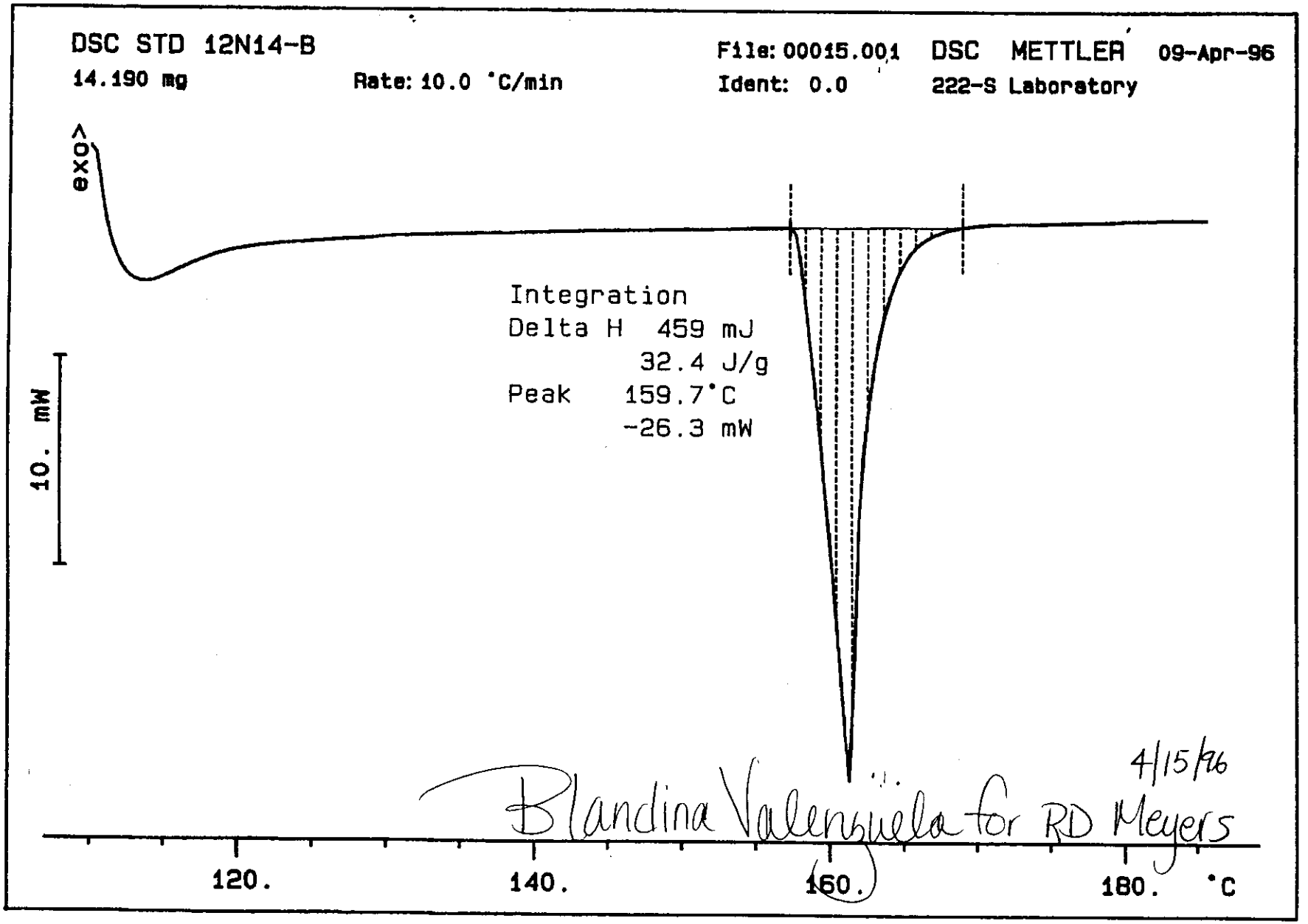
Heather Anastos for Rob Meyers 4-2-96

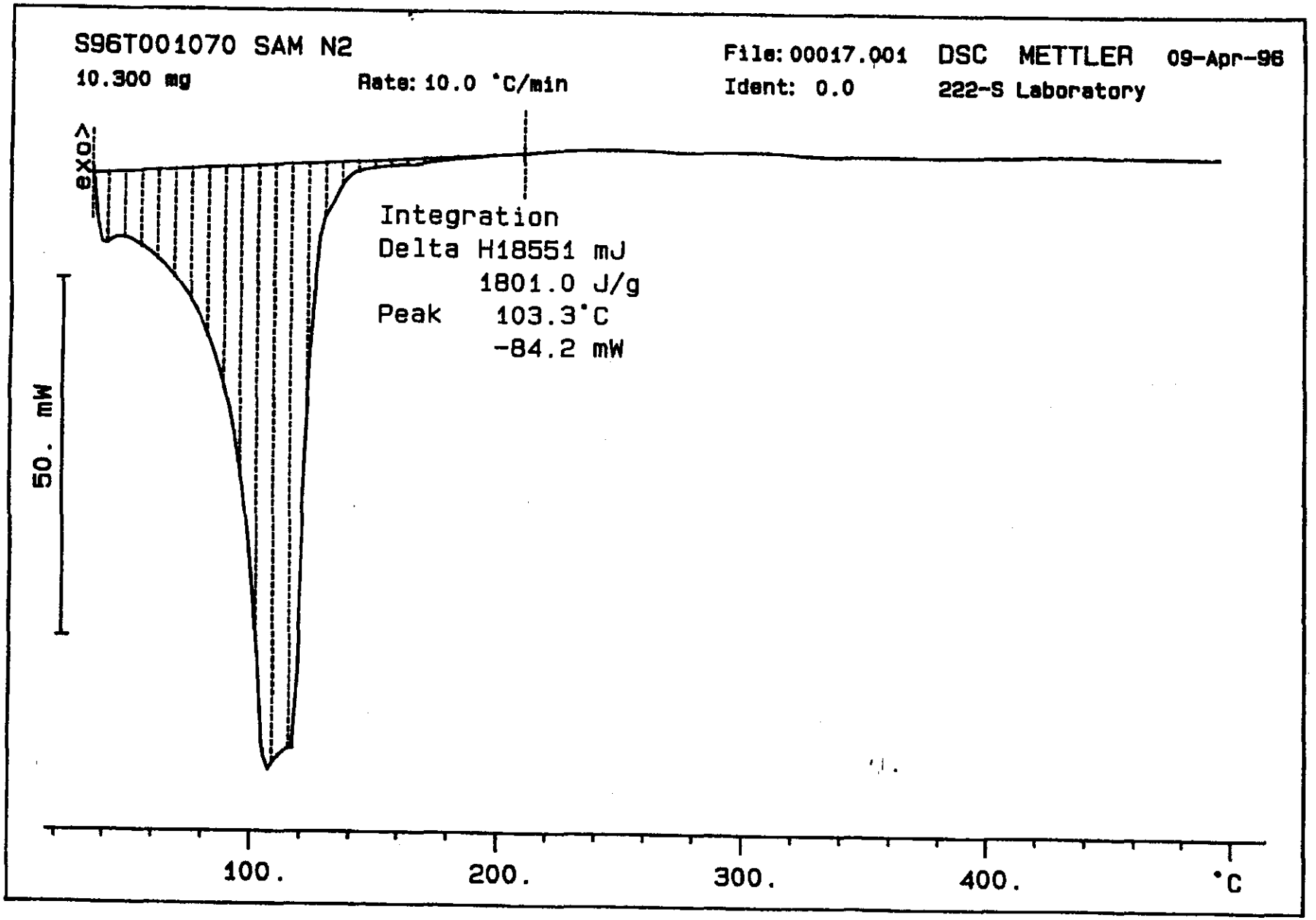
2-103


S96T001059 SAM N2
18.240 mg
Rate: 10.0 °C/min
File: 00080.001
Ident: 0.0
DSC METTLER
222-S Laboratory
29-Mar-96
exo>
20. mW
Integration
Delta H14482 mJ
794.0 J/g
Peak 95.6°C
-30.0 mW
Integration
Delta H 1607 mJ
88.1 J/g
Peak 286.0°C
-7.5 mW
100.
200.
300.
400.
°C

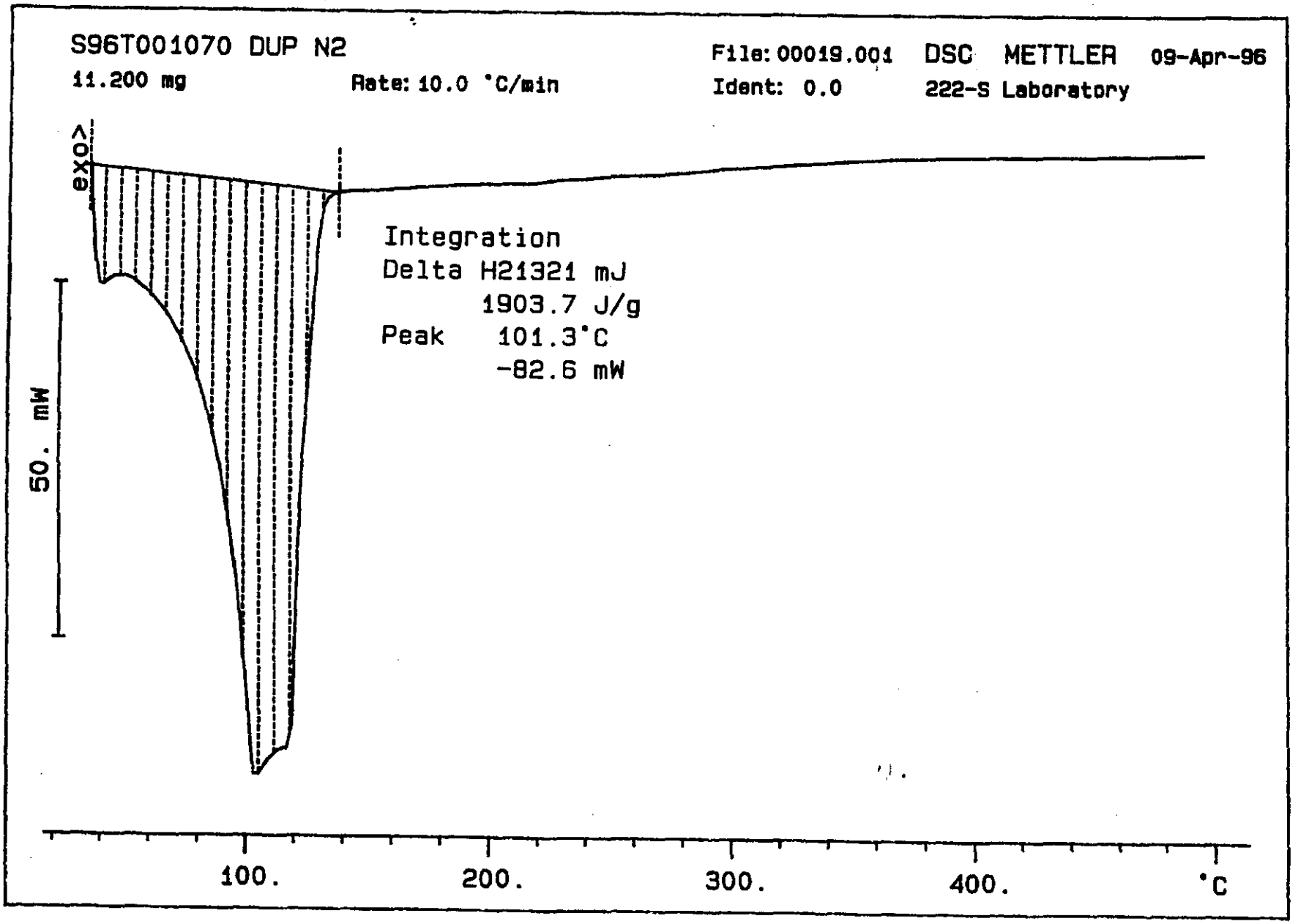

DSC STD 12N14-B
9.010 mg
Rate: 10.0 °C/min
File: 00094.001
Ident: 0.0
DSC METTLER
222-S Laboratory
30-Mar-96
exo>
Integration
Delta H 292 mJ
32.4 J/g
Peak 158.5°C
-19.1 mW
10. mW
120.
140.
160.
180.
°C
Blandina Valenzuela for RD Meyers
4/15/96


S96T001059 DUP N2
36.010 mg
Rate: 10.0 °C/min
File: 00002.001
Ident: 0.0
DSC METTLER 30-Mar-96
222-S Laboratory
Integration
Delta H36494 mJ
1013.4 J/g
Peak 94.8°C
-50.7 mW
endo
20. mW
100.
200.
300.
400.
°C


DSC STD 12N14-B
14.190 mg
Rate: 10.0 °C/min
File: 00015.001
Ident: 0.0
DSC METTLER
222-S Laboratory
09-Apr-96
exo>
10. mW
Integration
Delta H 459 mJ
32.4 J/g
Peak 159.7°C
-26.3 mW
120.
140.
160.
180.
°C
4/15/96
Blandina Valenzuela for RD Meyers


S96T001070 SAM N2
10.300 mg
Rate: 10.0 °C/min
File: 00017.001
DSC METTLER
09-Apr-96
Ident: 0.0
222-S Laboratory
exo>
Integration
Delta H18551 mJ
1801.0 J/g
Peak 103.3°C
-84.2 mW
50. mW
100.
200.
300.
400.
°C

2-108



04/10/96 11:55 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 040

worklistrpt Version 2.1 05/15/95
03/18/96 14:39

LABCORE Data Entry Template for Worklist# 6655

Analyst: SMF **Instrument:** DSC0 1 **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	LIQUID	28.45	30.1	N/A	Joules/g
96000085	U-107	2	SAMPLE	S96T000665	0		DSC-01	LIQUID	N/A	54.8		Joules/g
96000085	U-107	3	DUP	S96T000665	0		DSC-01	LIQUID	54.8	53.7	N/A	Joules/g
96000085	U-107	4	SAMPLE	S96T000682	0		DSC-01	LIQUID	N/A	65.3		Joules/g
96000085	U-107	5	DUP	S96T000682	0		DSC-01	LIQUID	65.3	63.7	N/A	Joules/g

Final page for worklist # 6655

Susie M. Fulton 4-17-96
Analyst Signature **Date**

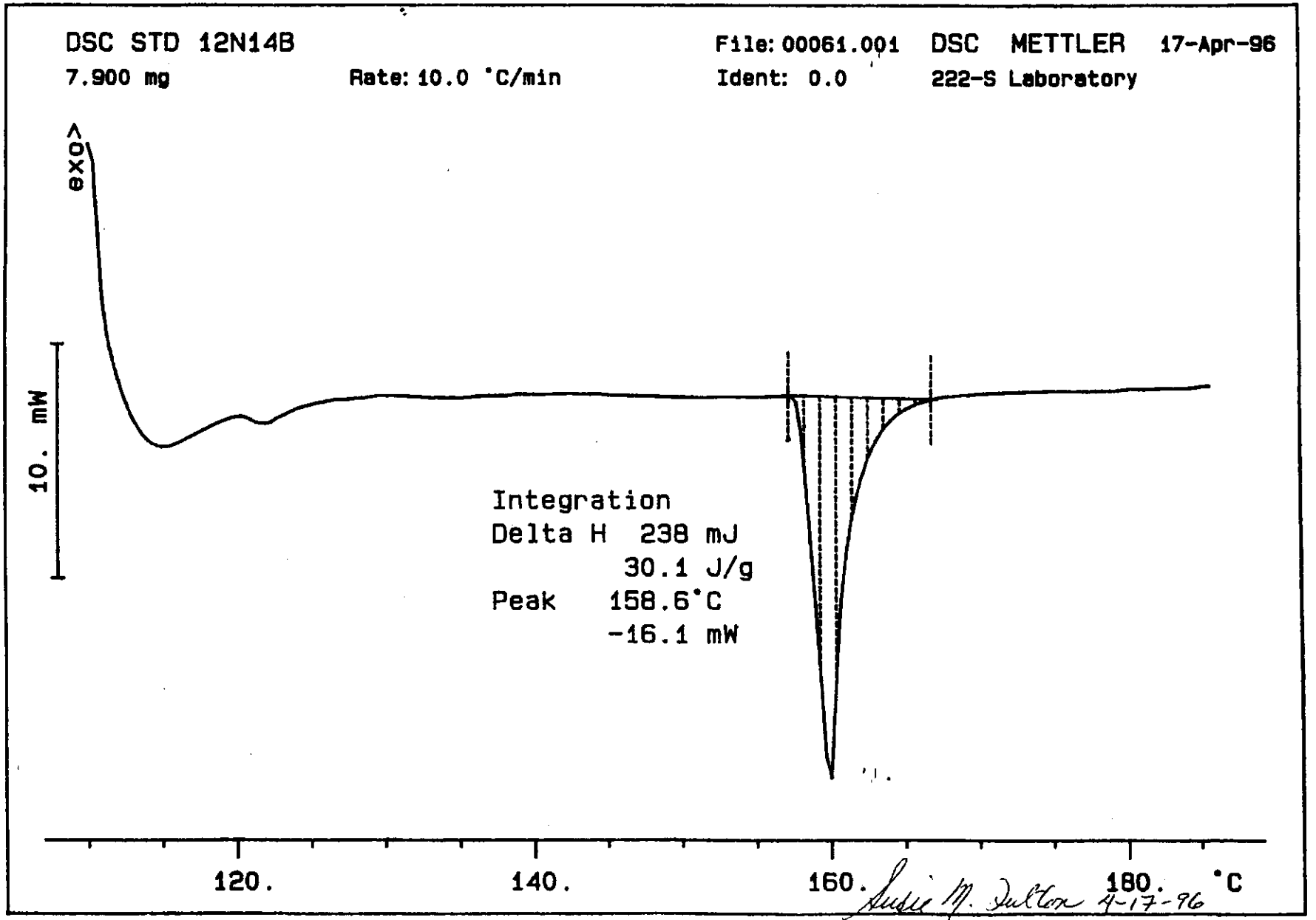
[illegible] 4-18-96
Analyst Signature **Date**

Verified by H Anastos 4-22-96

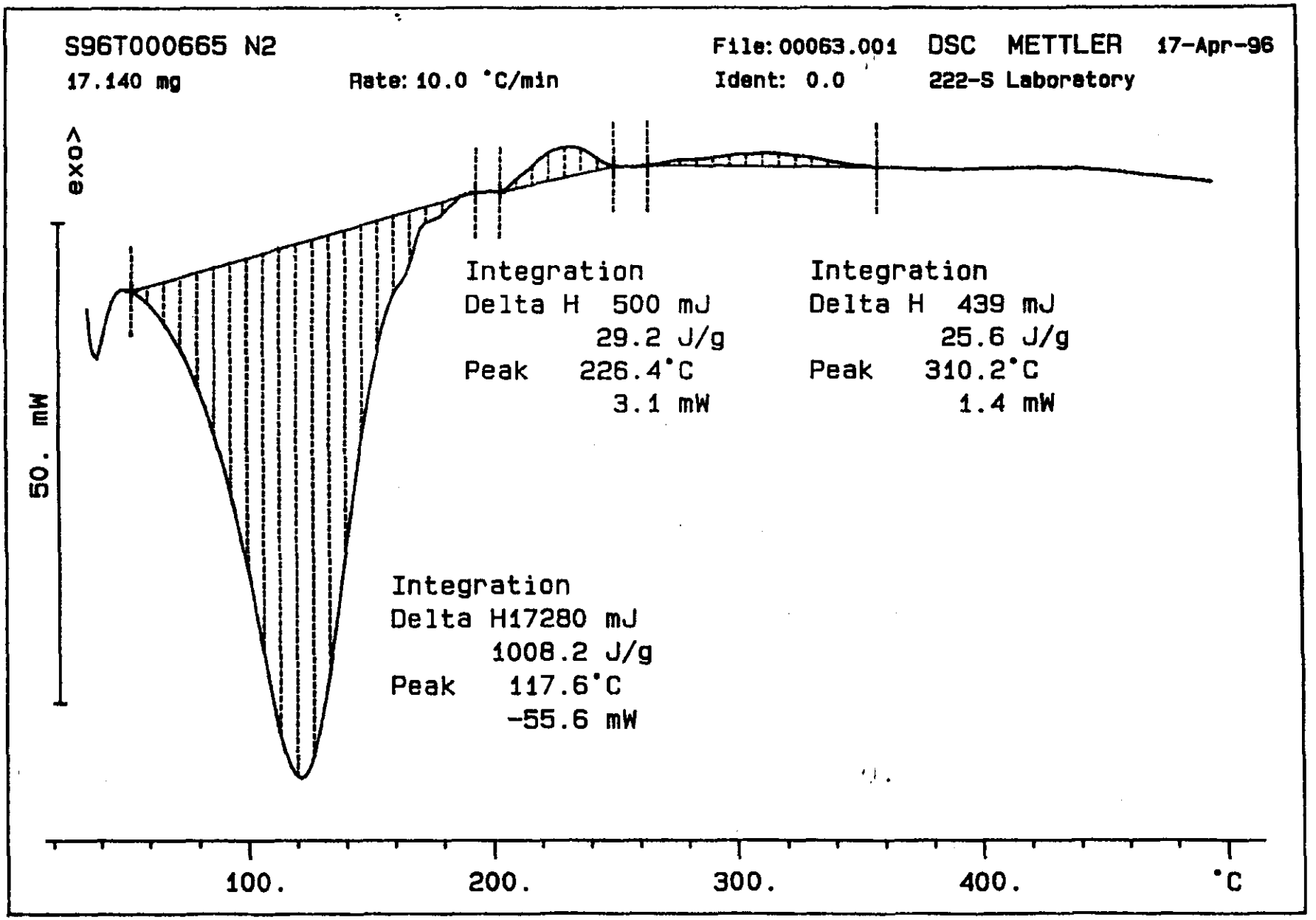
Data Entry Comments: S96T000665 produced an endotherm at 117.6°C with a delta H of 1008.2 J/g
The results given are the sum of two exotherms.
S96T000682 produced an endotherm at 112.5°C with a delta H of 958.2 J/g.
The results given are the sum of two exotherms

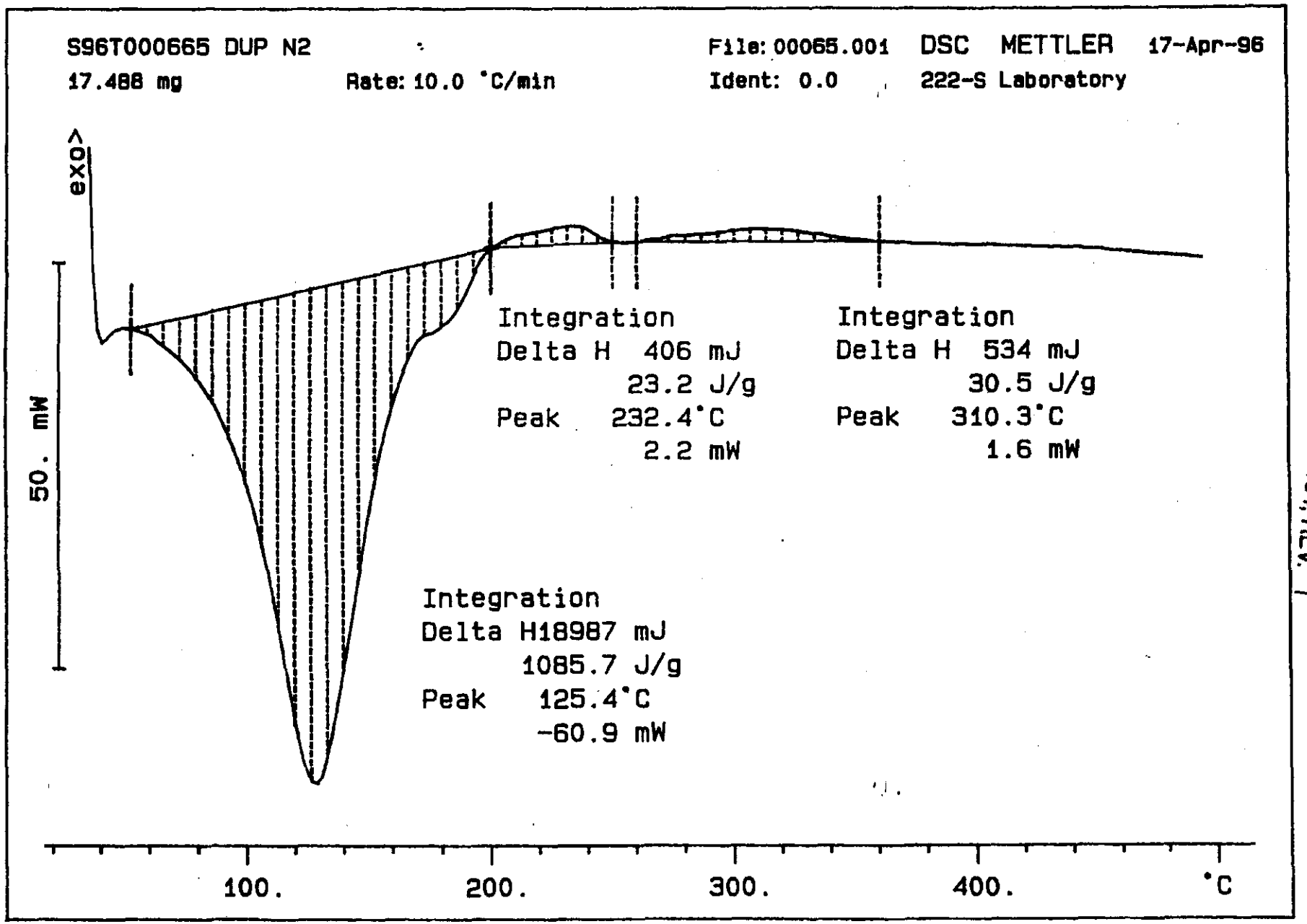
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-111 TO 2-115

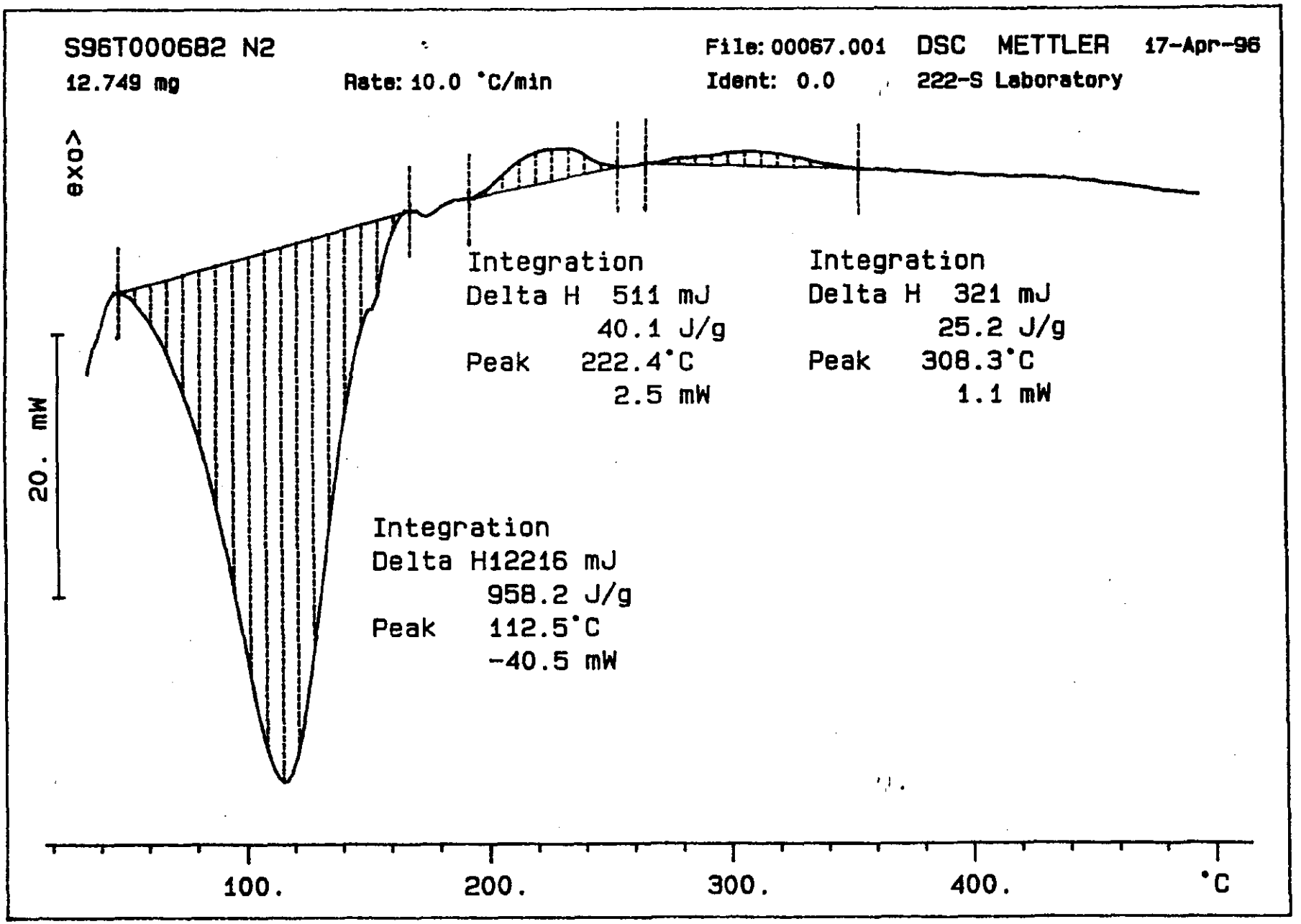


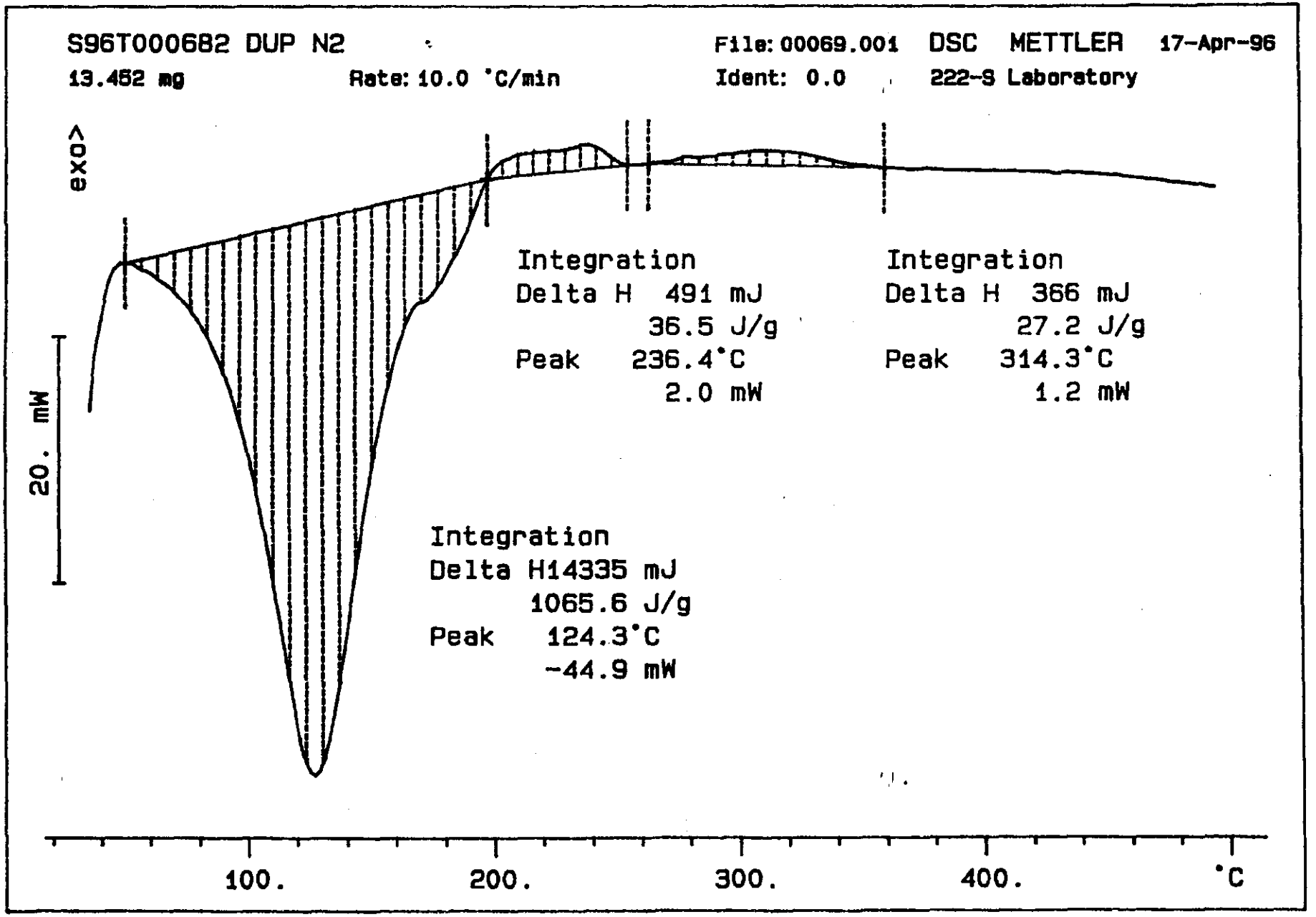
Susie M. Sutton 4-17-96


S96T000665 N2
17.140 mg
Rate: 10.0 °C/min
File: 00063.001
Ident: 0.0
DSC METTLER
222-S Laboratory
17-Apr-96
exo>
50. mW
Integration
Delta H 500 mJ
29.2 J/g
Peak 226.4°C
3.1 mW
Integration
Delta H 439 mJ
25.6 J/g
Peak 310.2°C
1.4 mW
Integration
Delta H17280 mJ
1008.2 J/g
Peak 117.6°C
-55.6 mW
100.
200.
300.
400.
°C


S96T000665 DUP N2
17.488 mg
Rate: 10.0 °C/min
File: 00065.001
Ident: 0.0
DSC METTLER
222-S Laboratory
17-Apr-96
exo>
50. mW
Integration
Delta H 406 mJ
23.2 J/g
Peak 232.4°C
2.2 mW
Integration
Delta H 534 mJ
30.5 J/g
Peak 310.3°C
1.6 mW
Integration
Delta H18987 mJ
1085.7 J/g
Peak 125.4°C
-60.9 mW
100.
200.
300.
400.
°C

2-113


S96T000682 N2
12.749 mg
Rate: 10.0 °C/min
File: 00067.001
Ident: 0.0
DSC METTLER
222-S Laboratory
17-Apr-96
exo>
20. mW
Integration
Delta H 511 mJ
40.1 J/g
Peak 222.4°C
2.5 mW
Integration
Delta H 321 mJ
25.2 J/g
Peak 308.3°C
1.1 mW
Integration
Delta H12216 mJ
958.2 J/g
Peak 112.5°C
-40.5 mW
100.
200.
300.
400.
°C


S96T000682 DUP N2
File: 00069.001
DSC METTLER
17-Apr-96
13.452 mg
Rate: 10.0 °C/min
Ident: 0.0
222-S Laboratory
exo>
20. mW
Integration
Delta H 491 mJ
36.5 J/g
Peak 236.4°C
2.0 mW
Integration
Delta H 366 mJ
27.2 J/g
Peak 314.3°C
1.2 mW
Integration
Delta H14335 mJ
1065.6 J/g
Peak 124.3°C
-44.9 mW
100.
200.
300.
400.
°C

2-115

worklistrpt Version 2.1 05/15/95
03/20/96 11:13

LABCORE Data Entry Template for Worklist# 6753

Analyst: RK **Instrument:** DSC0 1 **Book #** 12h14-B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107 FOR DSC-01 PLEASE RUN UNDER N2 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	28.6 *	N/A	Joules/g
96000085	U-107	2 SAMPLE	S96T001159	0		DSC-01	SOLID	N/A	9.4		Joules/g
96000085	U-107	3 DUP	S96T001159	0		DSC-01	SOLID	9.4	14.5	N/A	Joules/g

Final page for worklist # 6753

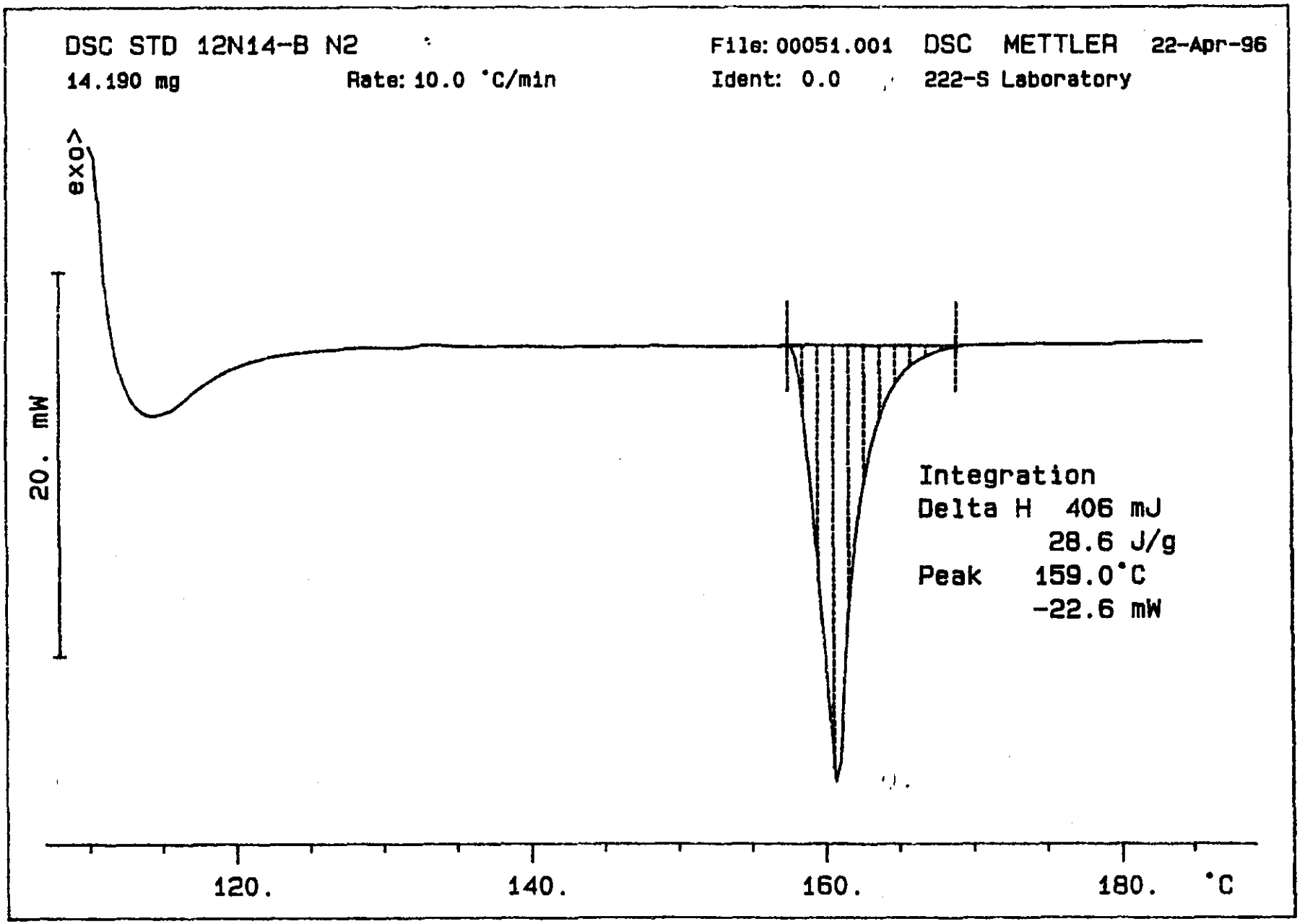
Rob Kemp 4/22/96
Analyst Signature **Date**

[illegible] 4/24/96
Analyst Signature **Date**

Verified by Blandina Valenzuela 4-29-96

Data Entry Comments: Sample produced two endothermic regions, one with a peak at 145.4°C with a delta H of 582.4 J/g and second at 283.9 with a delta H of 88.1 J/g.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.



Mob Kim 4/22/96

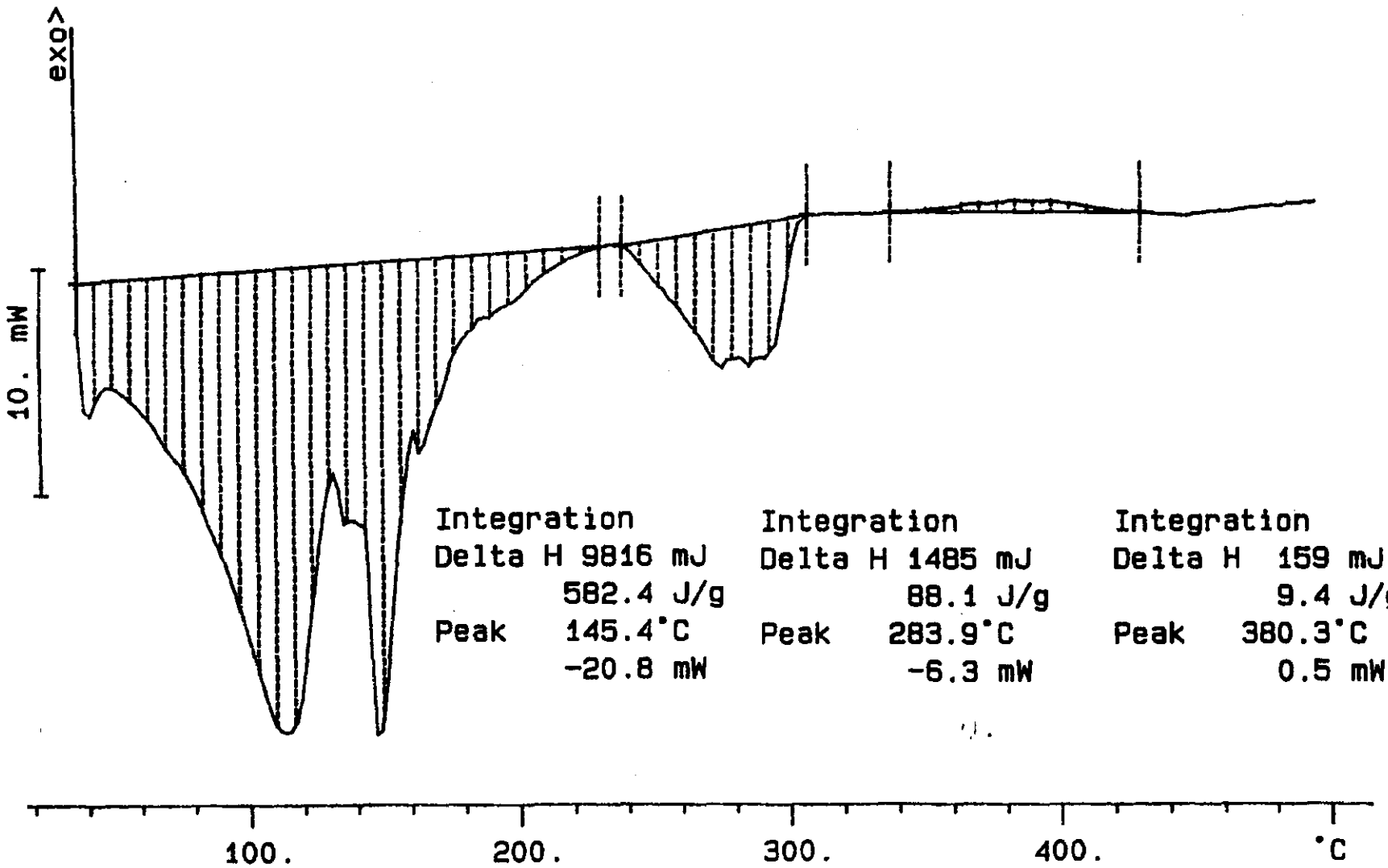
04/24/96 06:33 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 004

2-117

04/24/96 06:33 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 005

2-113

S96T001159 N2
16.855 mg
Rate: 10.0 °C/min
File: 00059.001 DSC METTLER 22-Apr-96
Ident: 0.0 222-S Laboratory



Integration
Delta H 9816 mJ
582.4 J/g
Peak 145.4°C
-20.8 mW

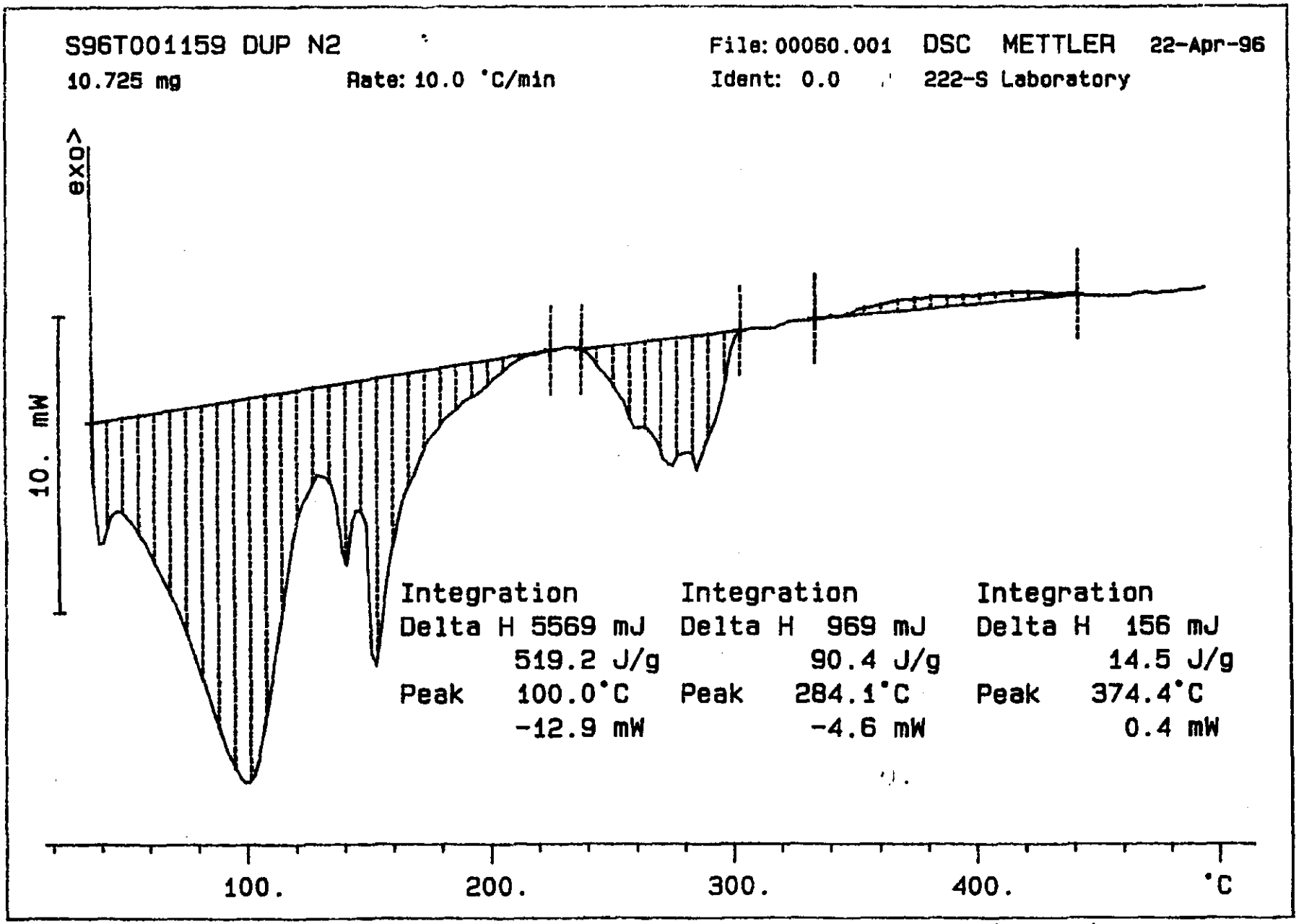
Integration
Delta H 1485 mJ
88.1 J/g
Peak 283.9°C
-6.3 mW

Integration
Delta H 159 mJ
9.4 J/g
Peak 380.3°C
0.5 mW

Rob Kim 4/22/96

04/24/96 06:34 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 006

2-119



Rob Wing 4/22/96

worklistrpt Version 2.1 05/15/95
04/17/96 10:35

LABCORE Data Entry Template for Worklist# 7587

Analyst: SMF **Instrument:** DSC0 3 **Book #** 12N14B

Method: LA-514-114 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-03	LIQUID	28.45	27.78	N/A	Joules/g
96000126	U-107	2	SAMPLE	S96T001119	0		DSC-03	LIQUID	N/A	Ø		Joules/g
96000126	U-107	3	DUP	S96T001119	0		DSC-03	LIQUID	Ø	Ø	N/A	Joules/g
96000126	U-107	4	SAMPLE	S96T001120	0		DSC-03	LIQUID	N/A	Ø		Joules/g
96000126	U-107	5	DUP	S96T001120	0		DSC-03	LIQUID	Ø	Ø	N/A	Joules/g
96000126	U-107	6	SAMPLE	S96T001121	0		DSC-03	LIQUID	N/A	Ø		Joules/g
96000126	U-107	7	DUP	S96T001121	0		DSC-03	LIQUID	Ø	Ø	N/A	Joules/g

Final page for worklist # 7587

See attached for signatures
Analyst Signature Date 4/17/96 BBr

RHHd 4-19-96
Analyst Signature Date

Verified by HAnastos 4-22-96

S96T001119 produced an endotherm at 124.5°C with a delta H of 1094.9 J/g.

S96T001120 produced an endotherm at 110.~~69~~ 7 °C 4/17/96 with a delta H of 1947.5 J/g.

Data Entry Comments: S96T001121 produced two endotherms one at 113.8°C with a delta H of 2097.76 J/g and second at 301.5°C with a delta H of 11.7 J/g.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 7587

Analyst: SMF **Instrument:** DSC0 **Book #** 12N14B

Method: LA-514-113 Rev/Mod

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	LIQUID			N/A	Joules/g
96000126	U-107	2	SAMPLE	S96T001110	0		DSC-01	LIQUID	N/A			Joules/g
96000126	U-107	3	DUP	S96T001110	0		DSC-01	LIQUID			N/A	Joules/g
96000126	U-107	4	SAMPLE	S96T001119	0		DSC-01	LIQUID	N/A			Joules/g
96000126	U-107	5	DUP	S96T001119	0		DSC-01	LIQUID			N/A	Joules/g
96000126	U-107	6	SAMPLE	S96T001120	0		DSC-01	LIQUID	N/A			Joules/g
96000126	U-107	7	DUP	S96T001120	0		DSC-01	LIQUID			N/A	Joules/g
96000126	U-107	8	SAMPLE	S96T001121	0		DSC-01	LIQUID	N/A			Joules/g
96000126	U-107	9	DUP	S96T001121	0		DSC-01	LIQUID			N/A	Joules/g

Final page for worklist # 7587

Susie M. Dalton 4-16-96
Analyst Signature **Date**

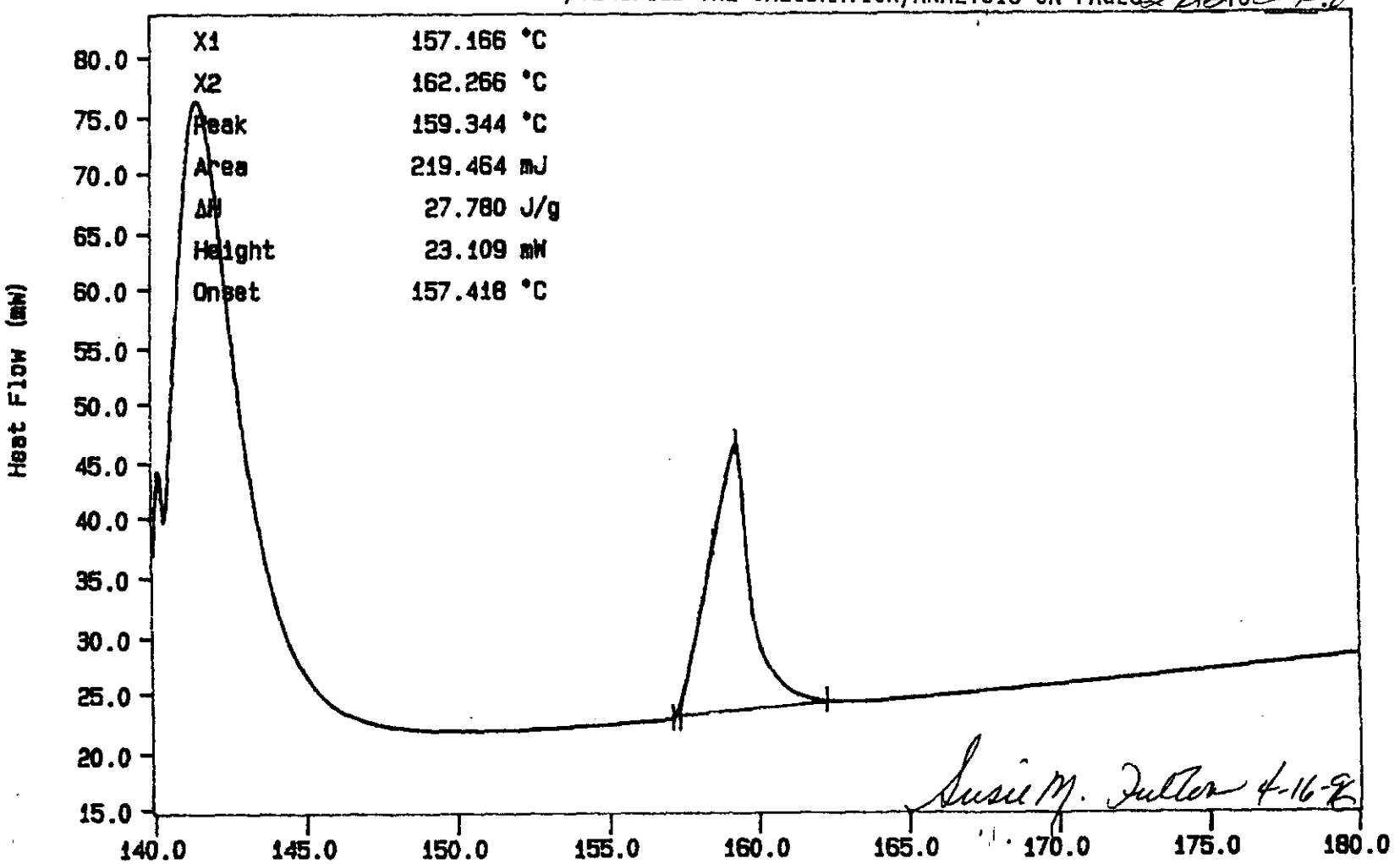
Analyst Signature **Date**

Data Entry Comments: S96T001110 - EMPTY

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: IND041601 Tue Apr 16 06:46:25 1996
Sample Weight: 7.900 mg
12N14-B INDIUM AT 10C\MIN

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-125 TO 2-126



Susie M. Fulton 4-16-96

N2, EXOTHERM DOWN
TEMP1: 140.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 180.0 C

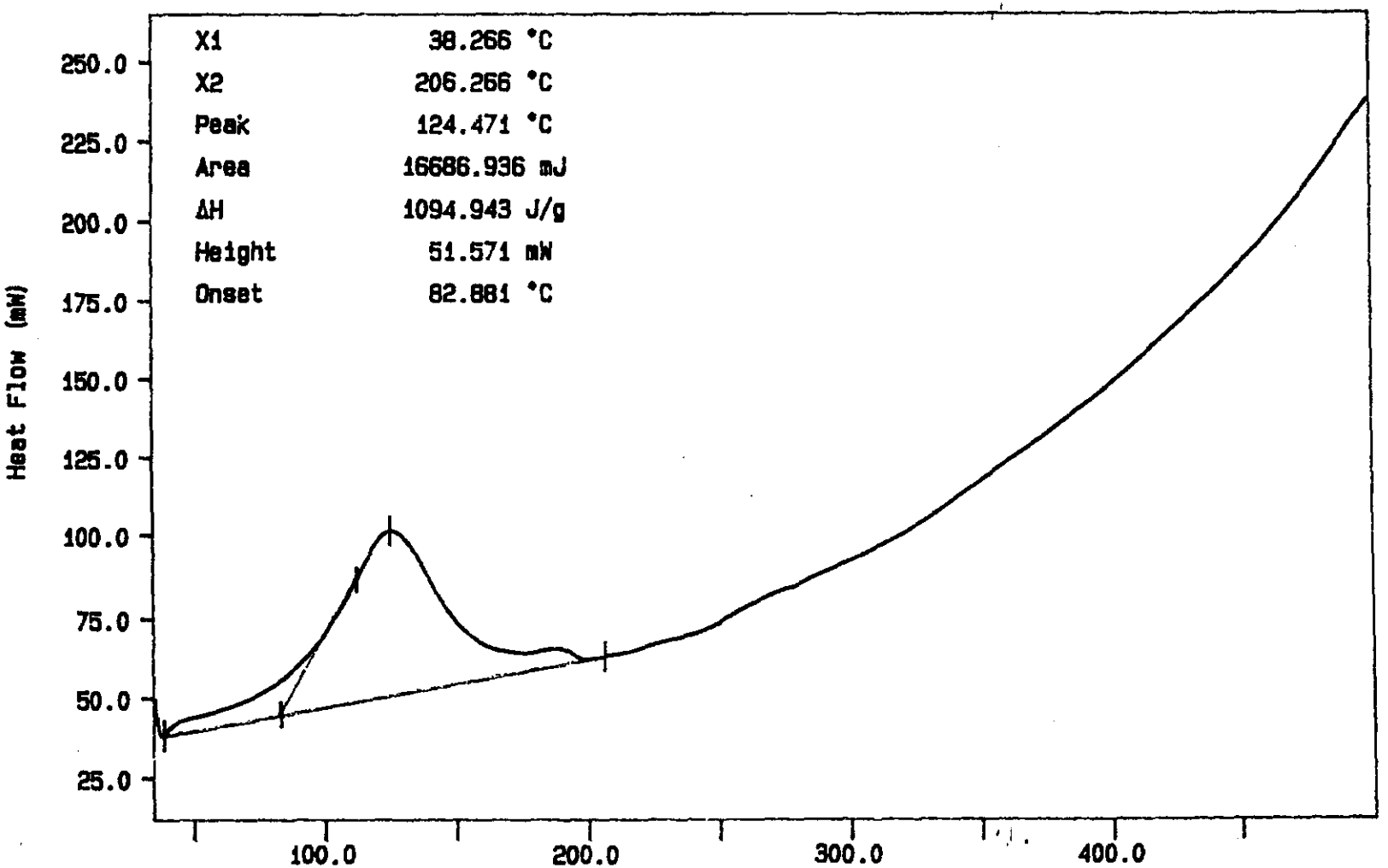
SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 16 06:56:14 1996

2-132

04/17/98 14:30 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 007

04/17/96 14:31 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 008

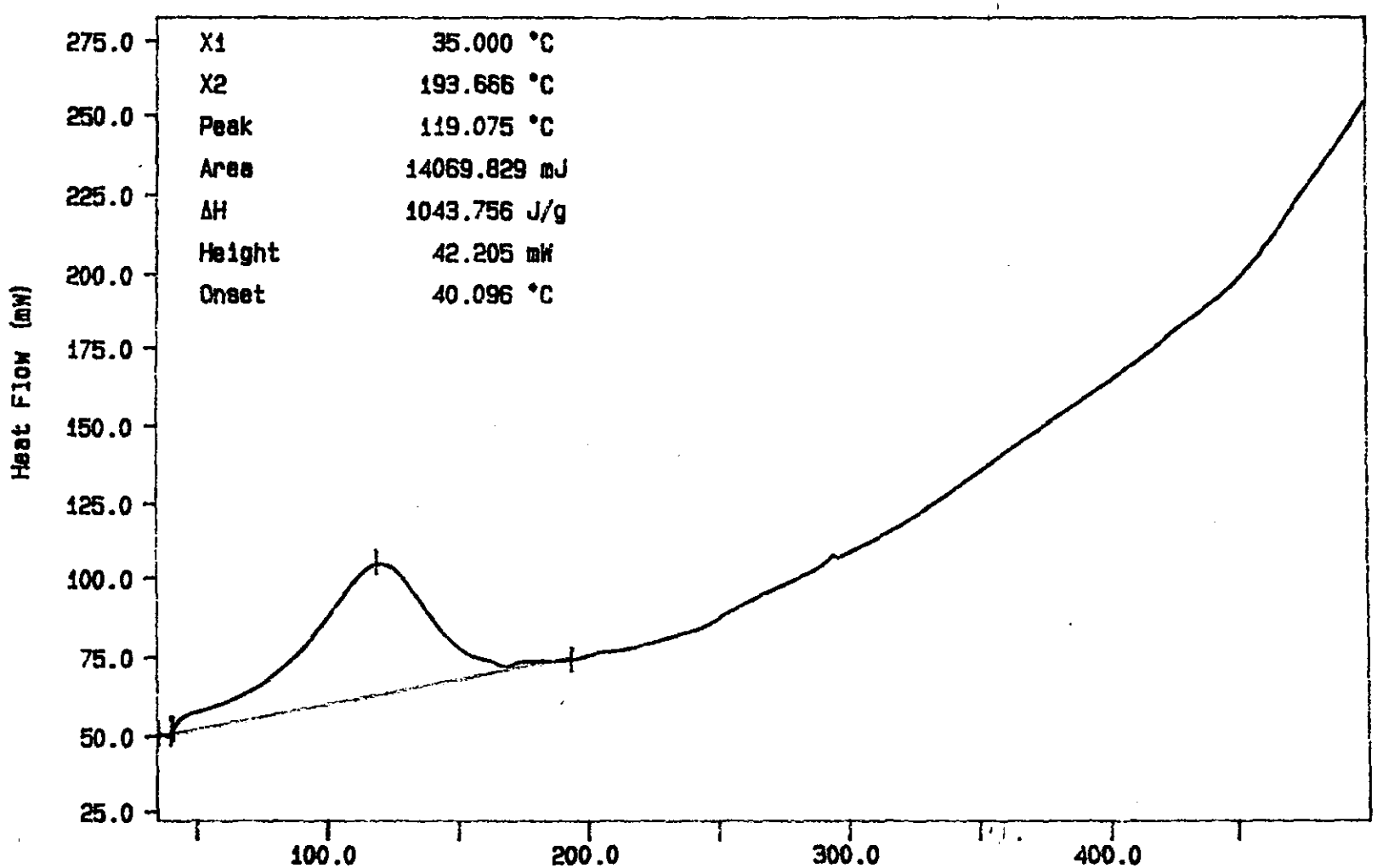
Curve 1: DSC
File info: SAM041601 Tue Apr 16 09:20:00 1996
Sample Weight: 15.240 mg
S96T001119



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 16 09:21:52 1996

Curve 1: DSC
File info: SAM041602 Tue Apr 16 10:20:29 1996
Sample Weight: 13.480 mg
S96T001119 DUP



2-124

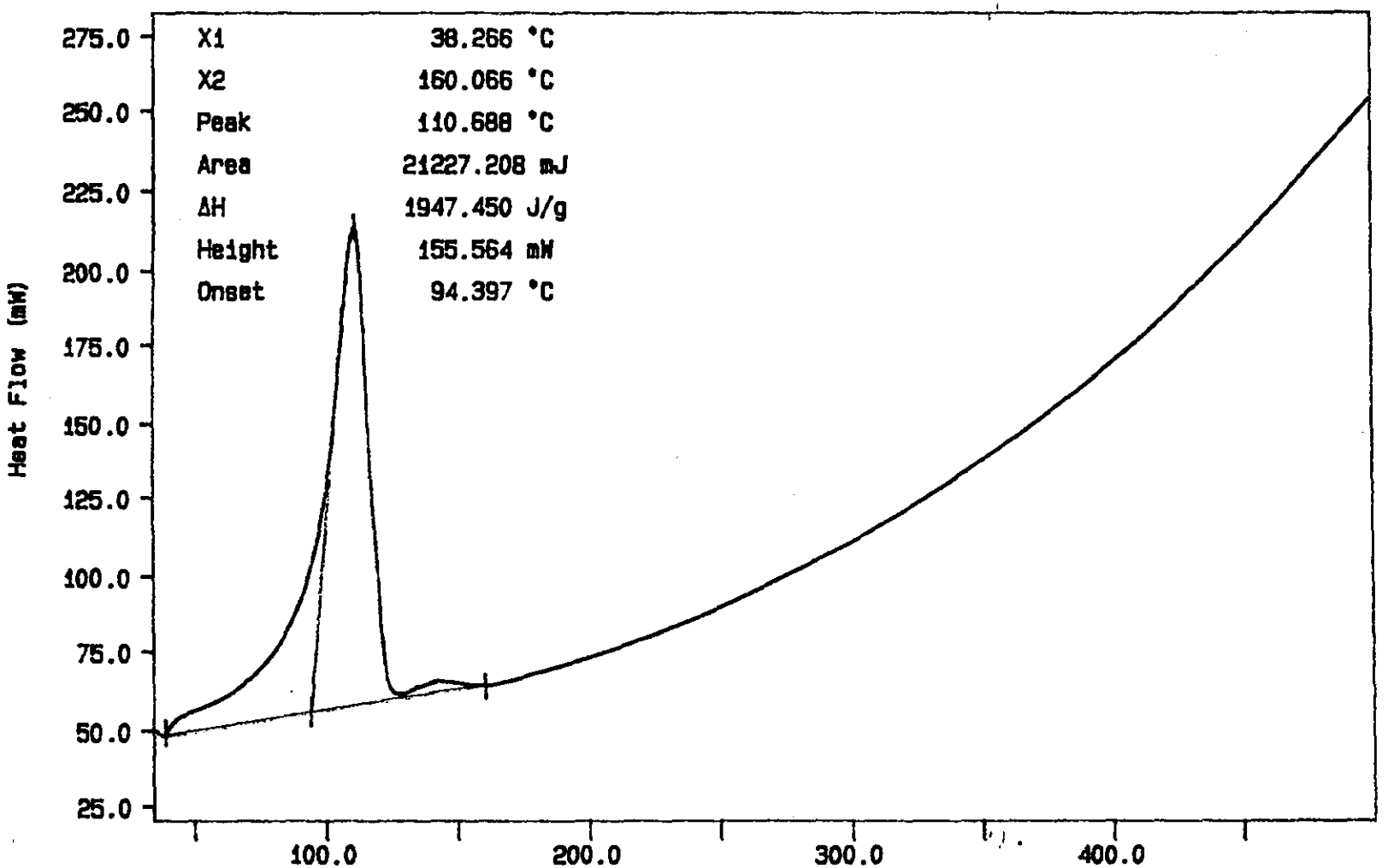
exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 16 10:23:50 1996

04/17/96 14:32 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 010

2-125

Curve 1: DSC
File info: SAM041603 Tue Apr 16 11:28:17 1996
Sample Weight: 10.900 mg
S96T001120

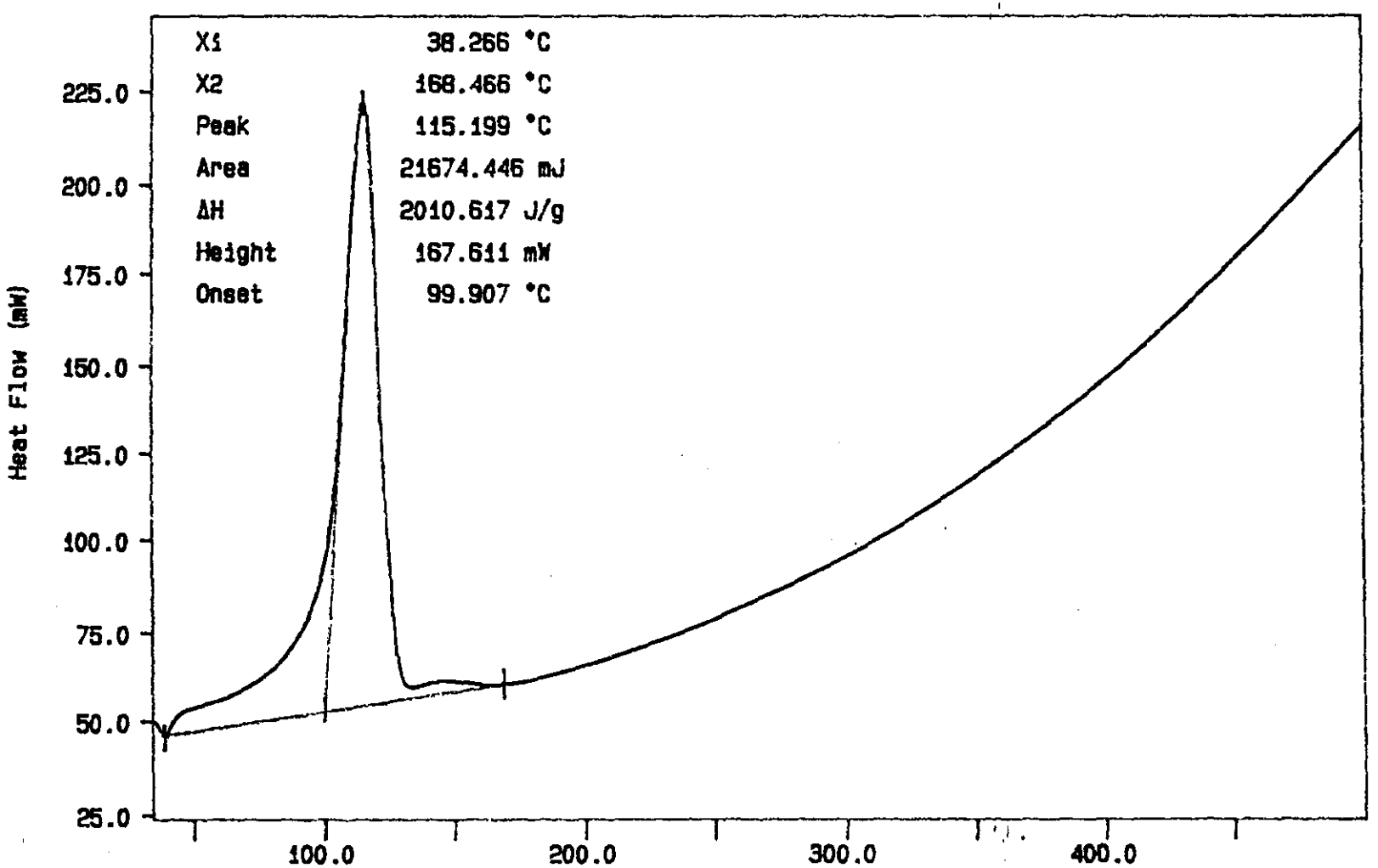


exotherm down, N2 purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 16 12:41:07 1996

Curve 1: DSC
File info: SAM041604 Tue Apr 16 13:38:49 1996
Sample Weight: 10.780 mg
S96T001120 DUP

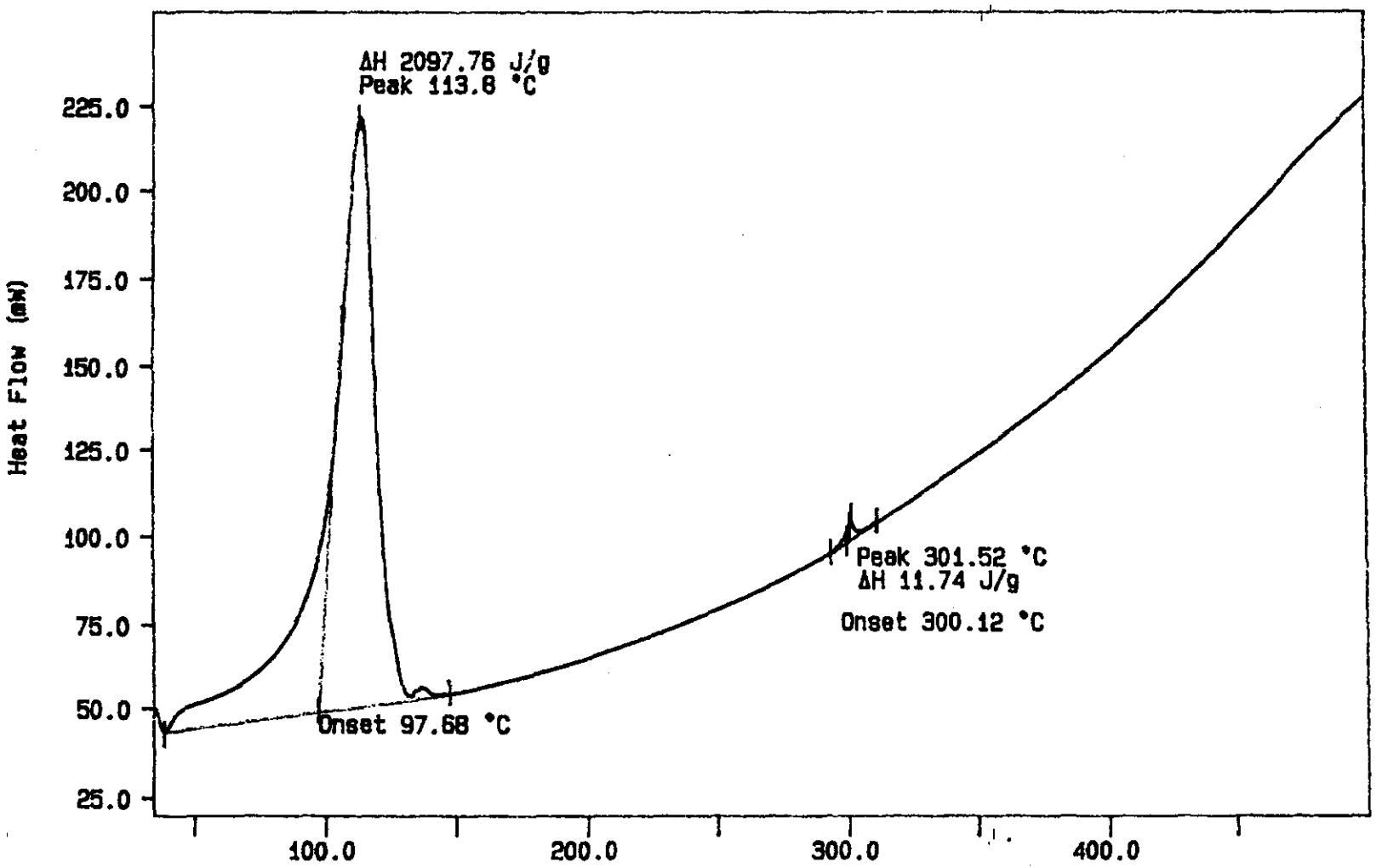


exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 16 13:43:28 1996

2-126

Curve 1: DSC
File info: SAM041605 Tue Apr 16 14:51:28 1996
Sample Weight: 10.430 mg
S96T001121

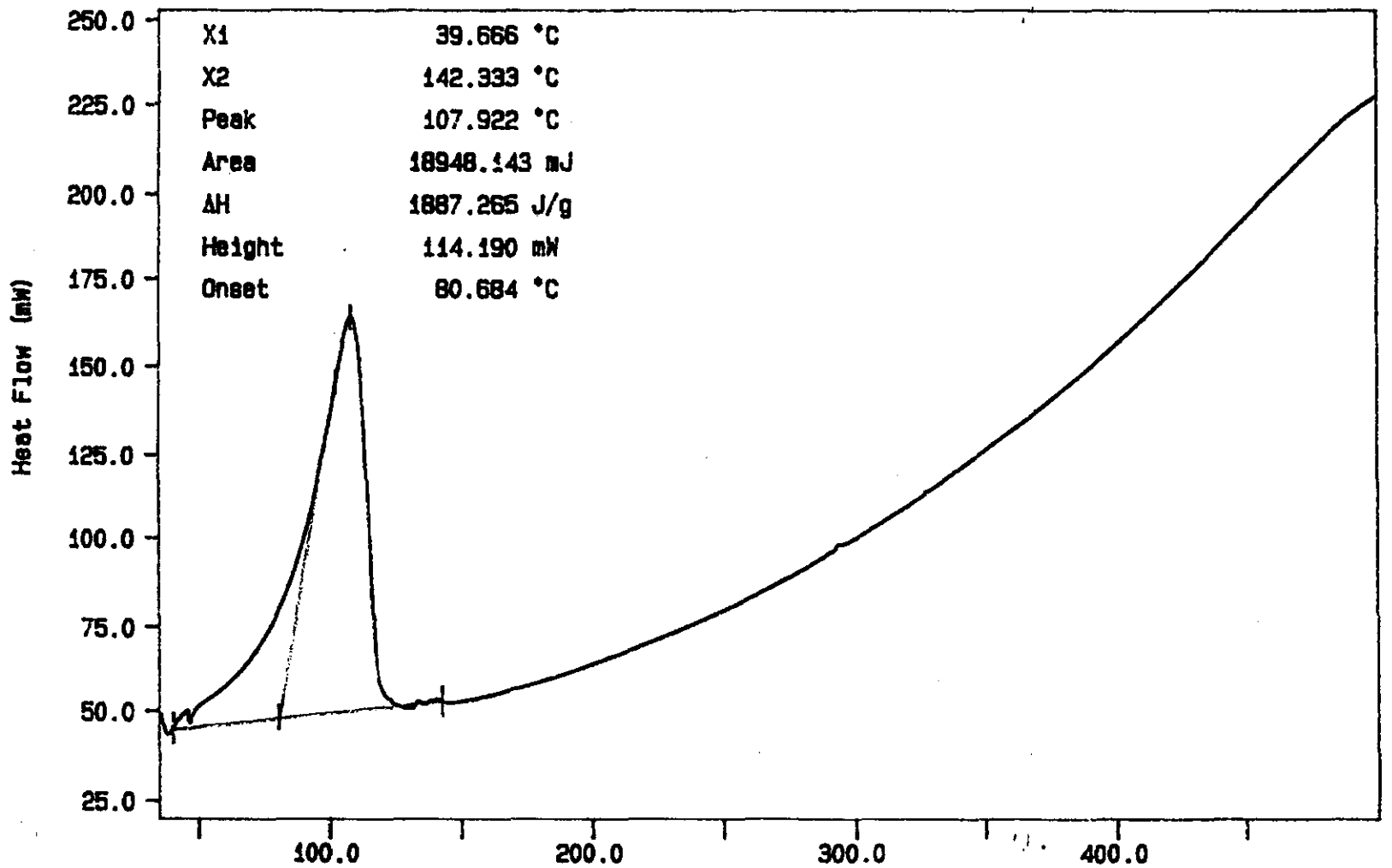


exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 16 15:28:25 1996

2-127

Curve 1: DSC
File info: SAM041606 Tue Apr 16 16:27:03 1996
Sample Weight: 10.040 mg
S96T001121 DUP



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 16 16:28:32 1996

2-128

worklistrpt Version 2.1 05/15/95
05/13/96 10:15

LABCORE Data Entry Template for Worklist# 8025

Analyst: KRM **Instrument:** DSC0 1 **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107, Run under Nitrogen. new

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID	28.45	27.4*	N/A	Joules/g
96000422	U-107	2	SAMPLE	S96T001867	0		DSC-01	SOLID	N/A	140.6		Joules/g
96000422	U-107	3	DUP	S96T001867	0		DSC-01	SOLID	140.6	105.2	N/A	Joules/g
96000422	U-107	4	SAMPLE	S96T001873	0		DSC-01	SOLID	N/A	Ø		Joules/g
		5	STD				DSC-01	SOLID	28.45	30.3*	N/A	Joules/g
96000422	U-107	6	DUP	S96T001873	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 8025

See attached for Signatures

Analyst Signature **Date** **Analyst Signature** **Date**

Validated by H Anastos 5-13-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
04/30/96 10:41

LABCORE Data Entry Template for Worklist# 8025

Analyst: KRM **Instrument:** DSC0 **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107, Run under Nitrogen. new

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID			N/A	Joules/g
96000422	U-107	2	SAMPLE	S96T001867	0		DSC-01	SOLID	N/A			Joules/g
96000422	U-107	3	DUP	S96T001867	0		DSC-01	SOLID			N/A	Joules/g
96000422	U-107	4	SAMPLE STD	S96T001873	0		DSC-01	SOLID	N/A			Joules/g
96000422	U-107	5	DUP	S96T001873	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 8025

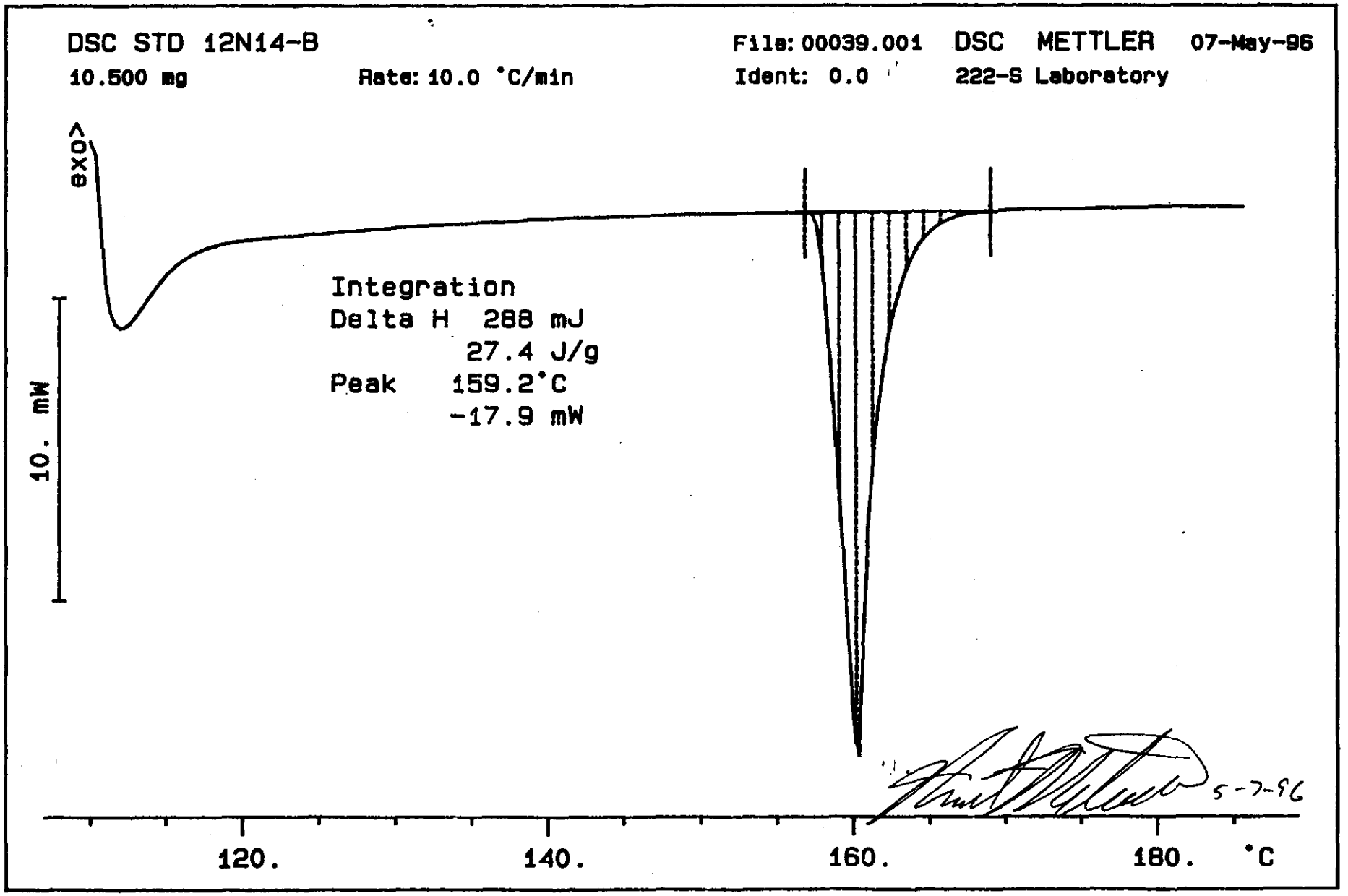
5-7-96
Analyst Signature **Date**

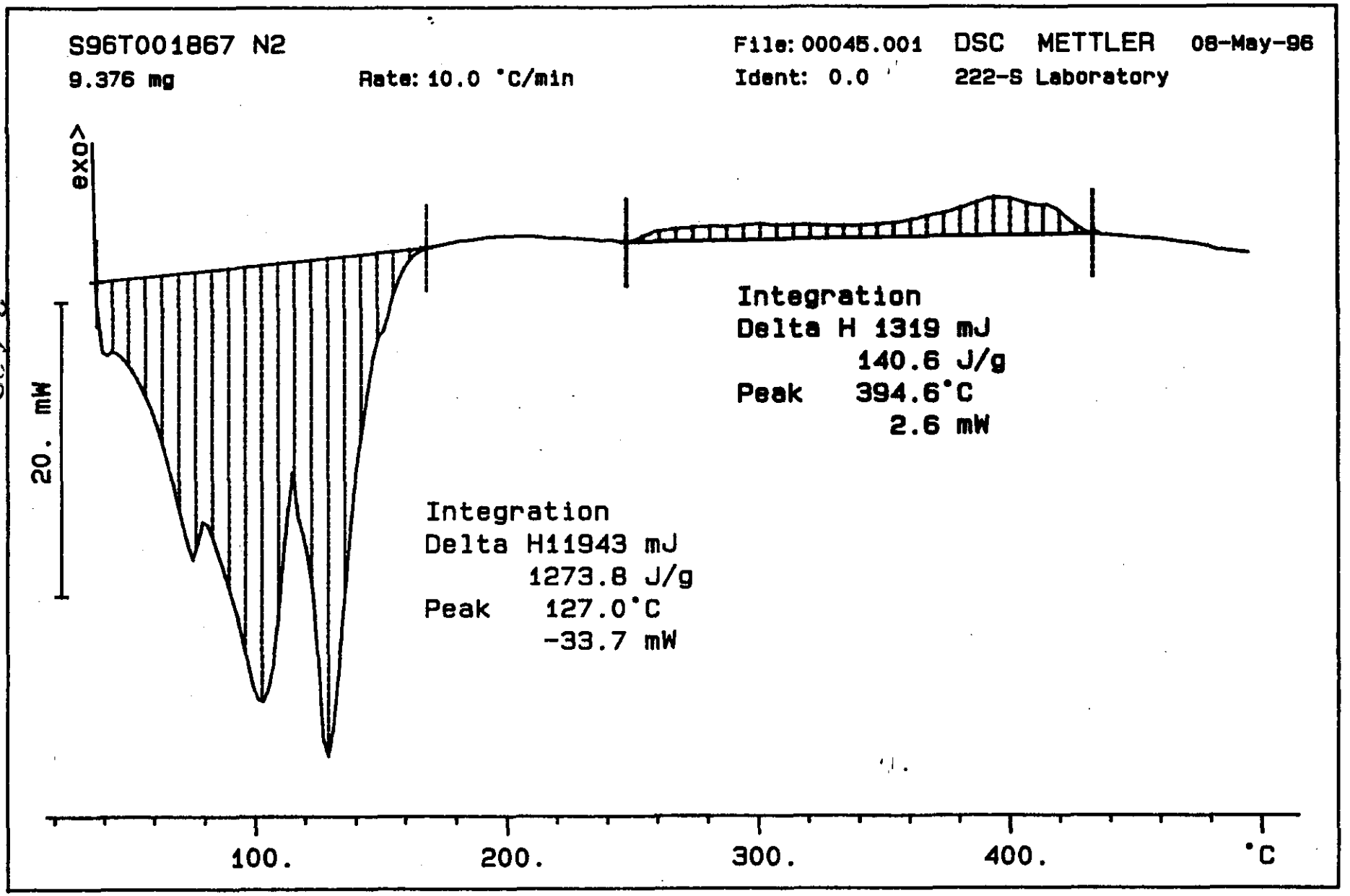
5/13/96
Analyst Signature **Date**

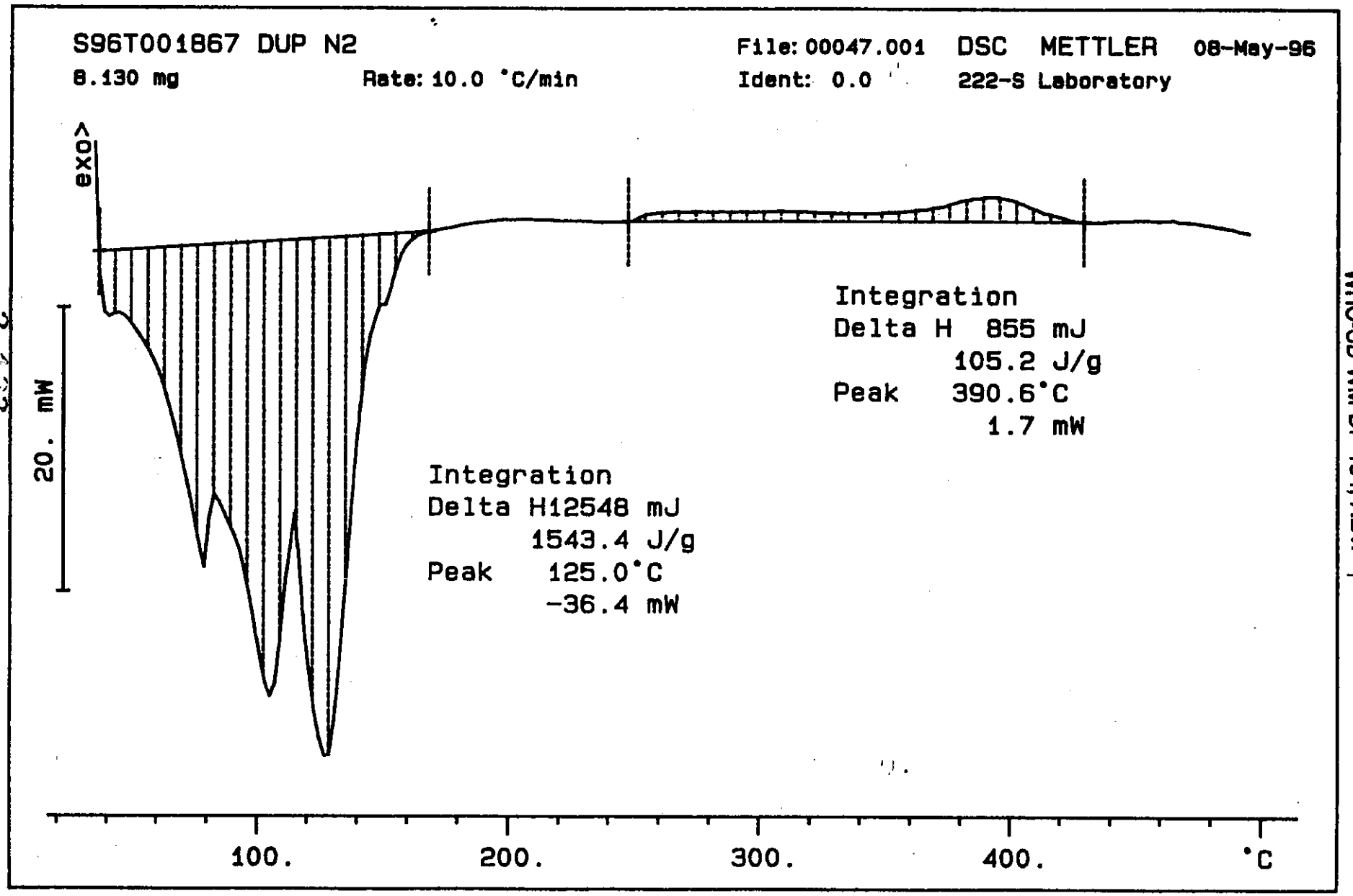
Data Entry Comments:

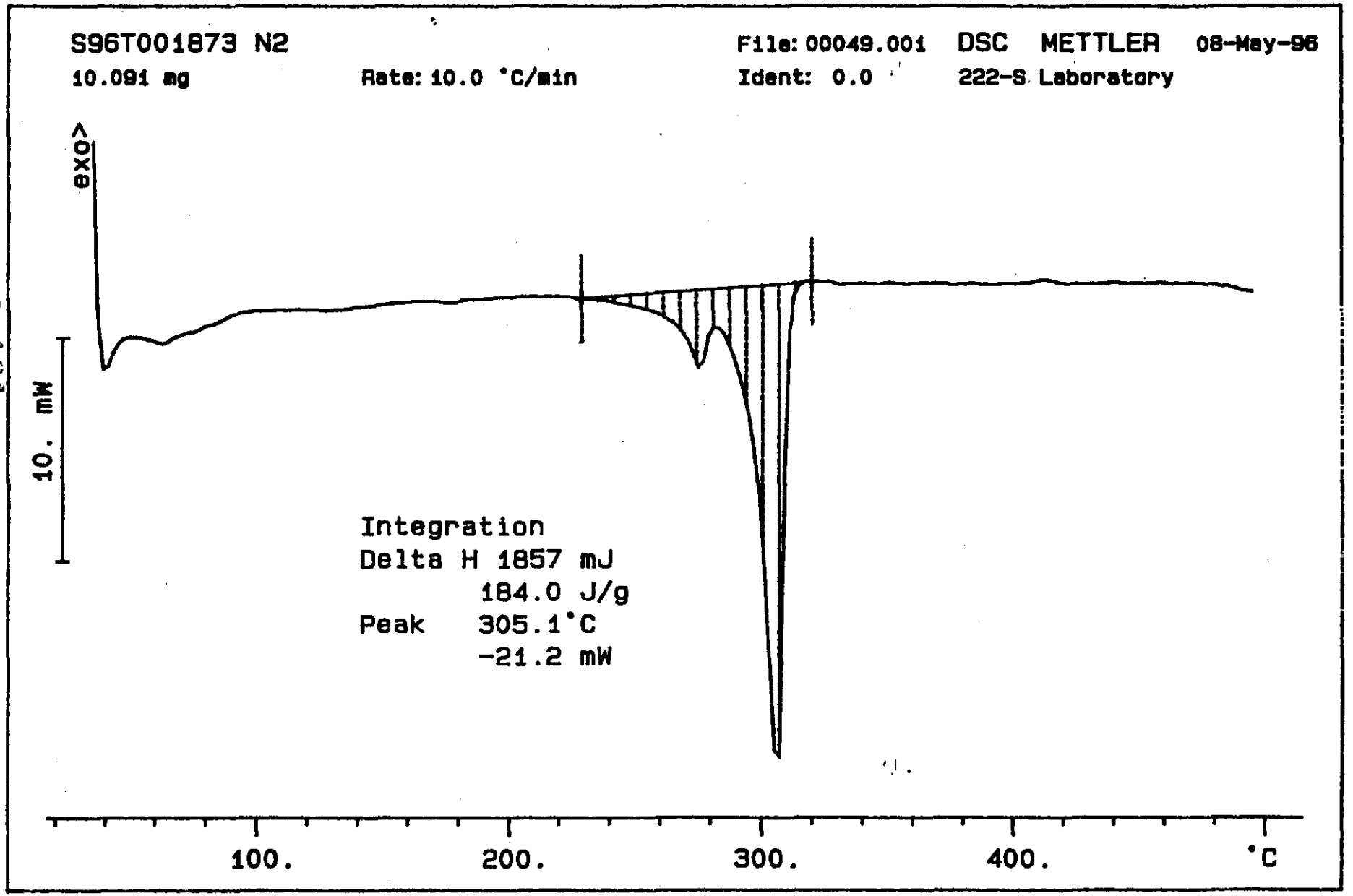
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

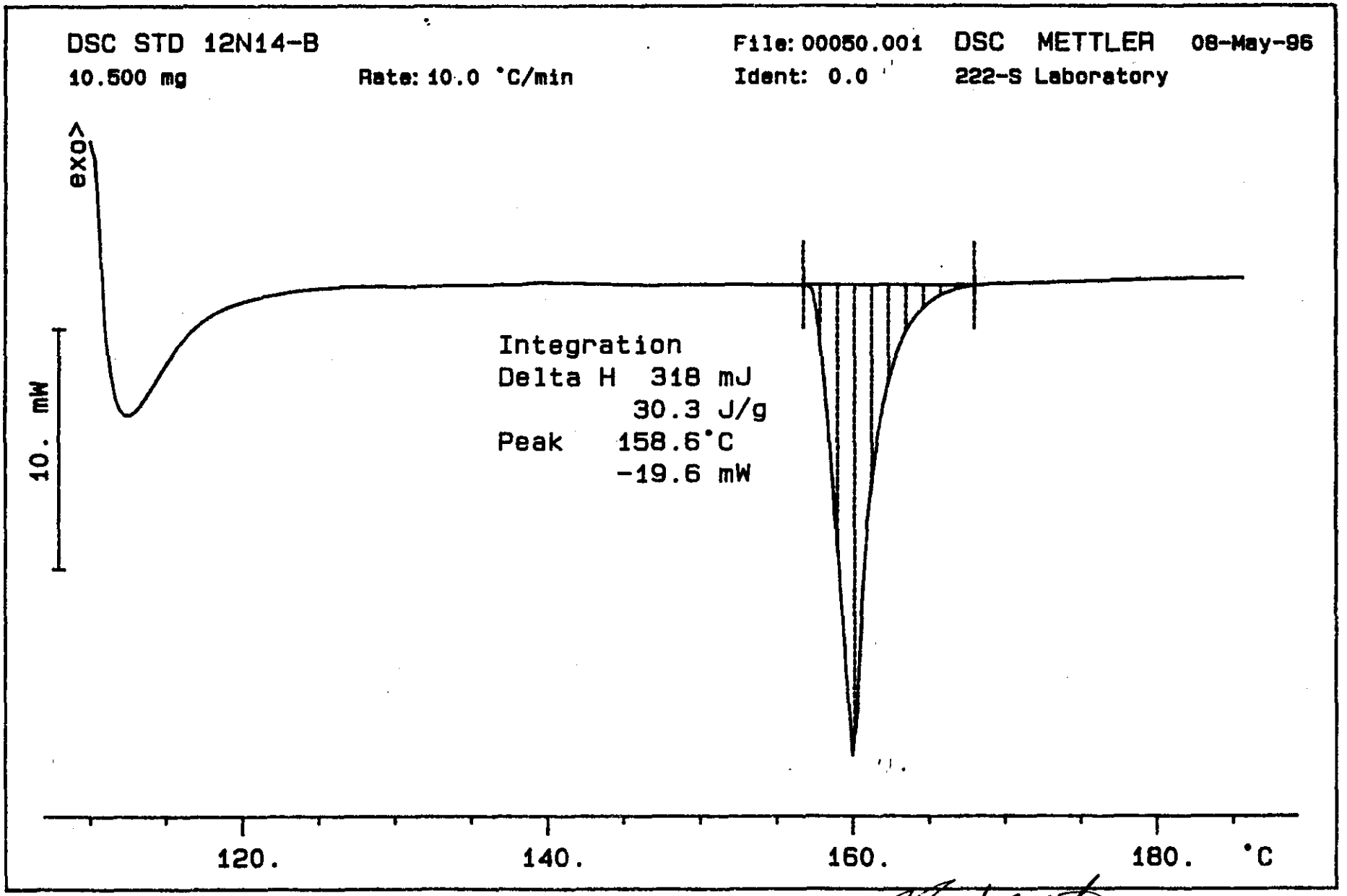
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 913 TO 934



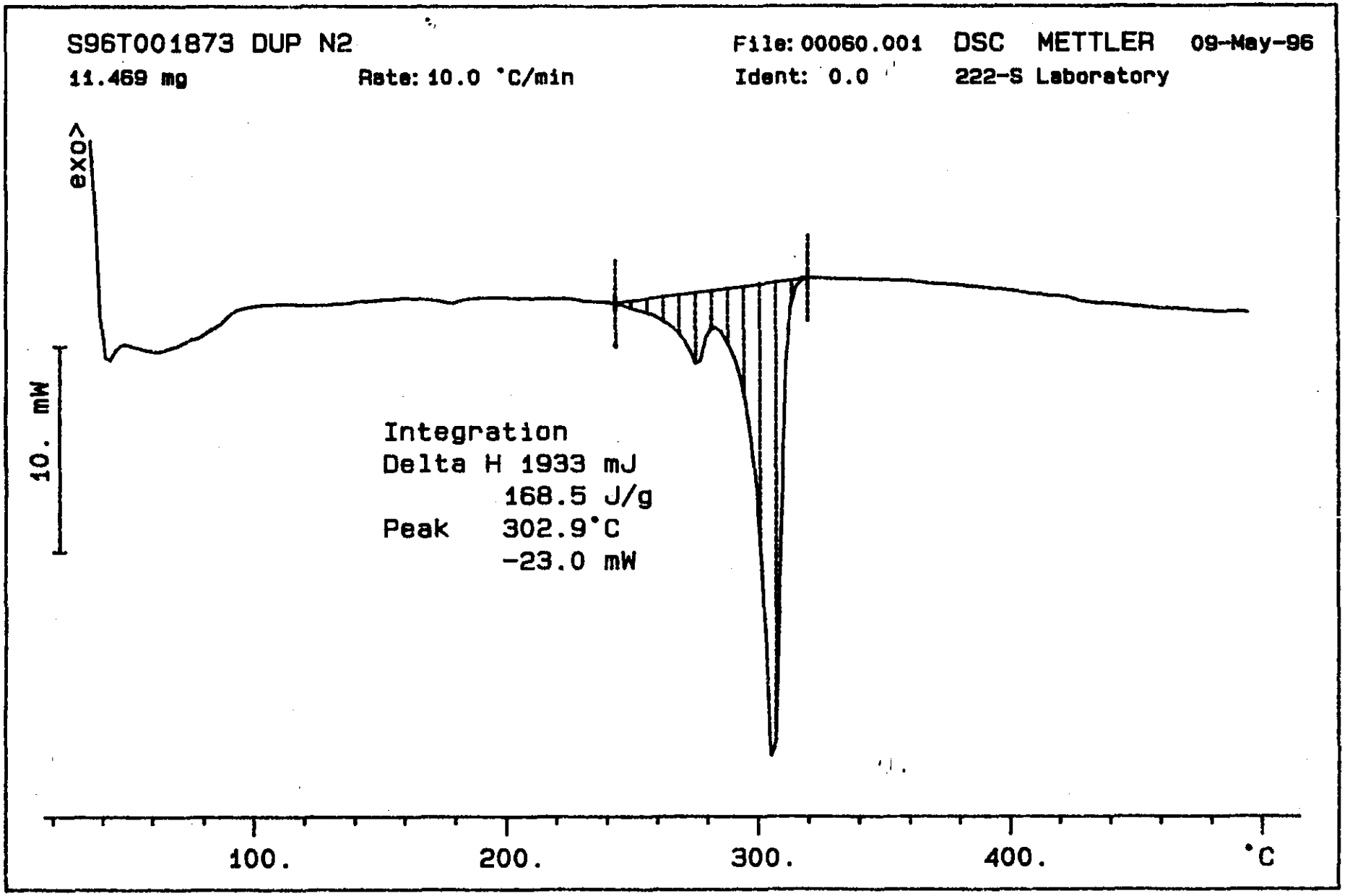

S96T001867 N2
9.376 mg
Rate: 10.0 °C/min
File: 00045.001
Ident: 0.0
DSC METTLER 08-May-96
222-S Laboratory
exo>
20. mW
Integration
Delta H 1319 mJ
140.6 J/g
Peak 394.6°C
2.6 mW
Integration
Delta H11943 mJ
1273.8 J/g
Peak 127.0°C
-33.7 mW
100.
200.
300.
400.
°C


S96T001867 DUP N2
8.130 mg
Rate: 10.0 °C/min
File: 00047.001
Ident: 0.0
DSC METTLER
222-S Laboratory
08-May-96
<exo
20. mW
Integration
Delta H 855 mJ
105.2 J/g
Peak 390.6°C
1.7 mW
Integration
Delta H12548 mJ
1543.4 J/g
Peak 125.0°C
-36.4 mW
100.
200.
300.
400.
°C


S96T001873 N2
10.091 mg
Rate: 10.0 °C/min
File: 00049.001
Ident: 0.0
DSC METTLER
222-S Laboratory
08-May-96
exo>
10. mW
Integration
Delta H 1857 mJ
184.0 J/g
Peak 305.1°C
-21.2 mW
100.
200.
300.
400.
°C


DSC STD 12N14-B
10.500 mg
Rate: 10.0 °C/min
File: 00050.001
Ident: 0.0
DSC METTLER
222-S Laboratory
08-May-96
<exo
10. mW
Integration
Delta H 318 mJ
30.3 J/g
Peak 158.6°C
-19.6 mW
120.
140.
160.
180.
°C

5-8-96


S96T001873 DUP N2
11.469 mg
Rate: 10.0 °C/min
File: 00060.001
Ident: 0.0
DSC METTLER
222-S Laboratory
09-May-96
exo>
10. mW
Integration
Delta H 1933 mJ
168.5 J/g
Peak 302.9°C
-23.0 mW
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
05/01/96 14:12

LABCORE Data Entry Template for Worklist# 8229

Analyst: ADP **Instrument:** DSC0 1 **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107. Run under nitrogen. new

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	LIQUID	28.45	31.5 *	N/A	Joules/g
96000126	U-107	2	SAMPLE	S96T002034	0		DSC-01	LIQUID	N/A	Ø		Joules/g
96000126	U-107	3	DUP	S96T002034	0		DSC-01	LIQUID	Ø	Ø	N/A	Joules/g

Final page for worklist # 8229

Anthony Pareto 5-12-96
Analyst Signature **Date**

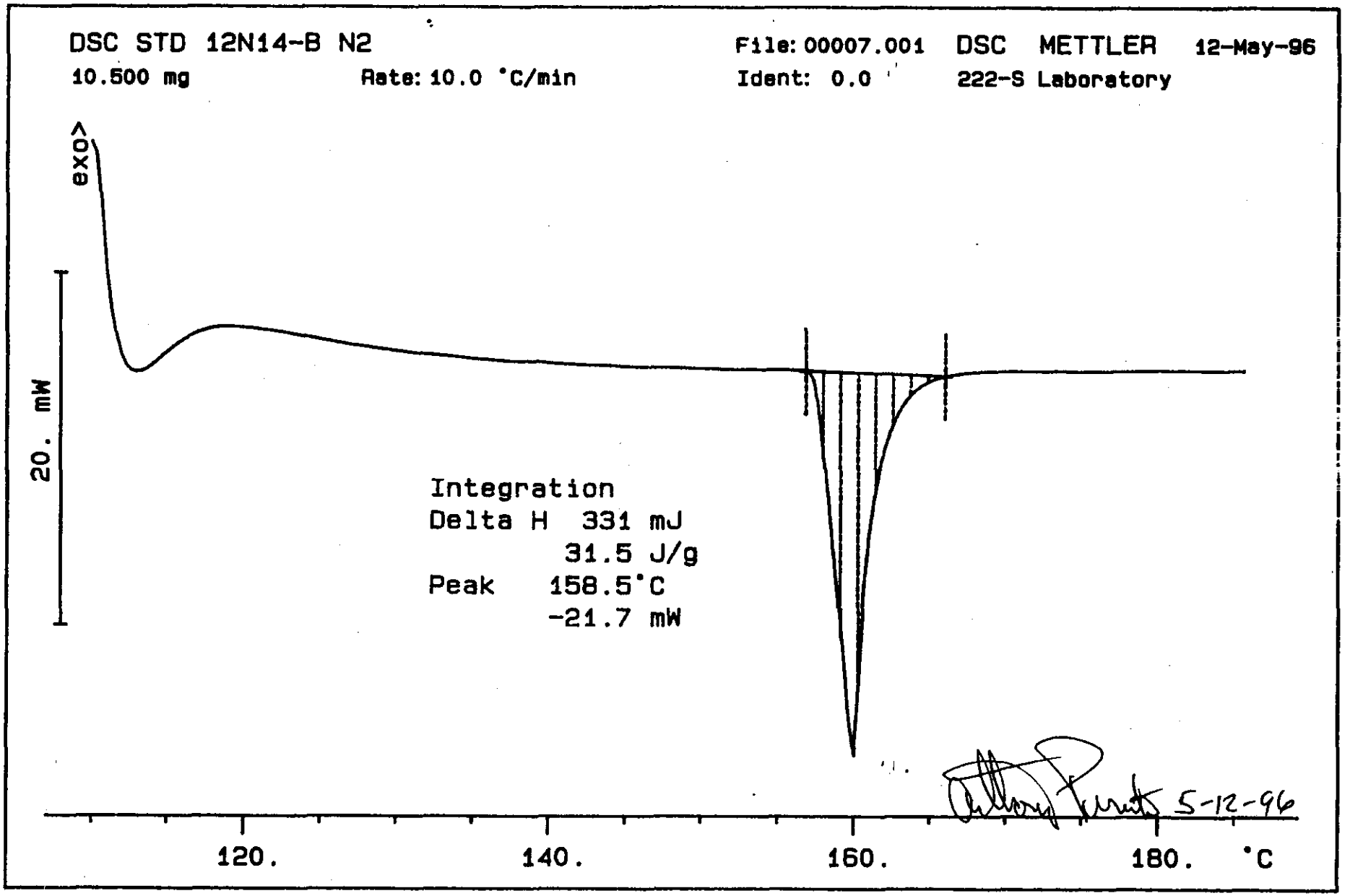
Gary Hammond 5-13-96
Analyst Signature **Date**

Validated by HAnastis 5-14-96

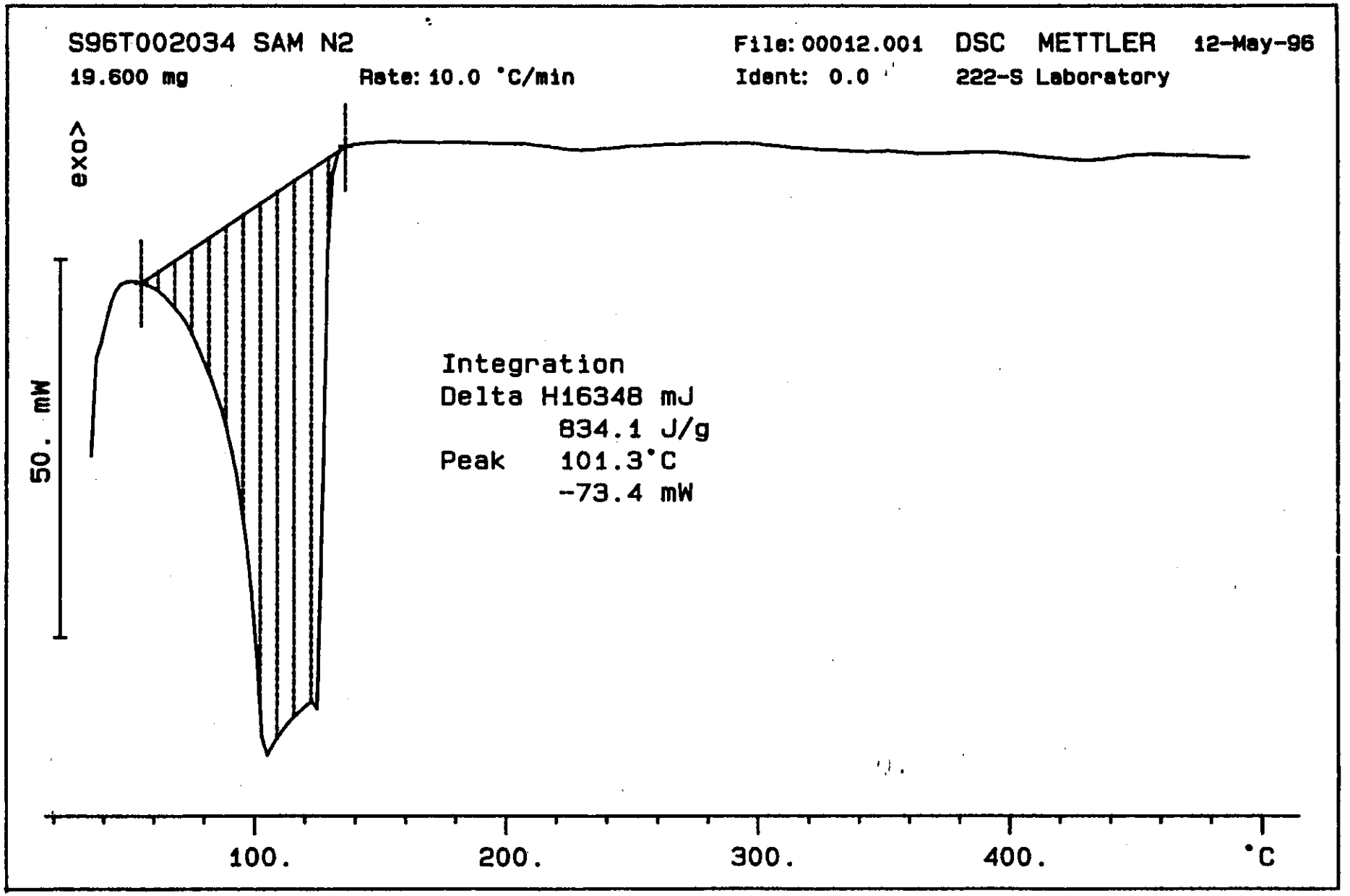
Data Entry Comments:

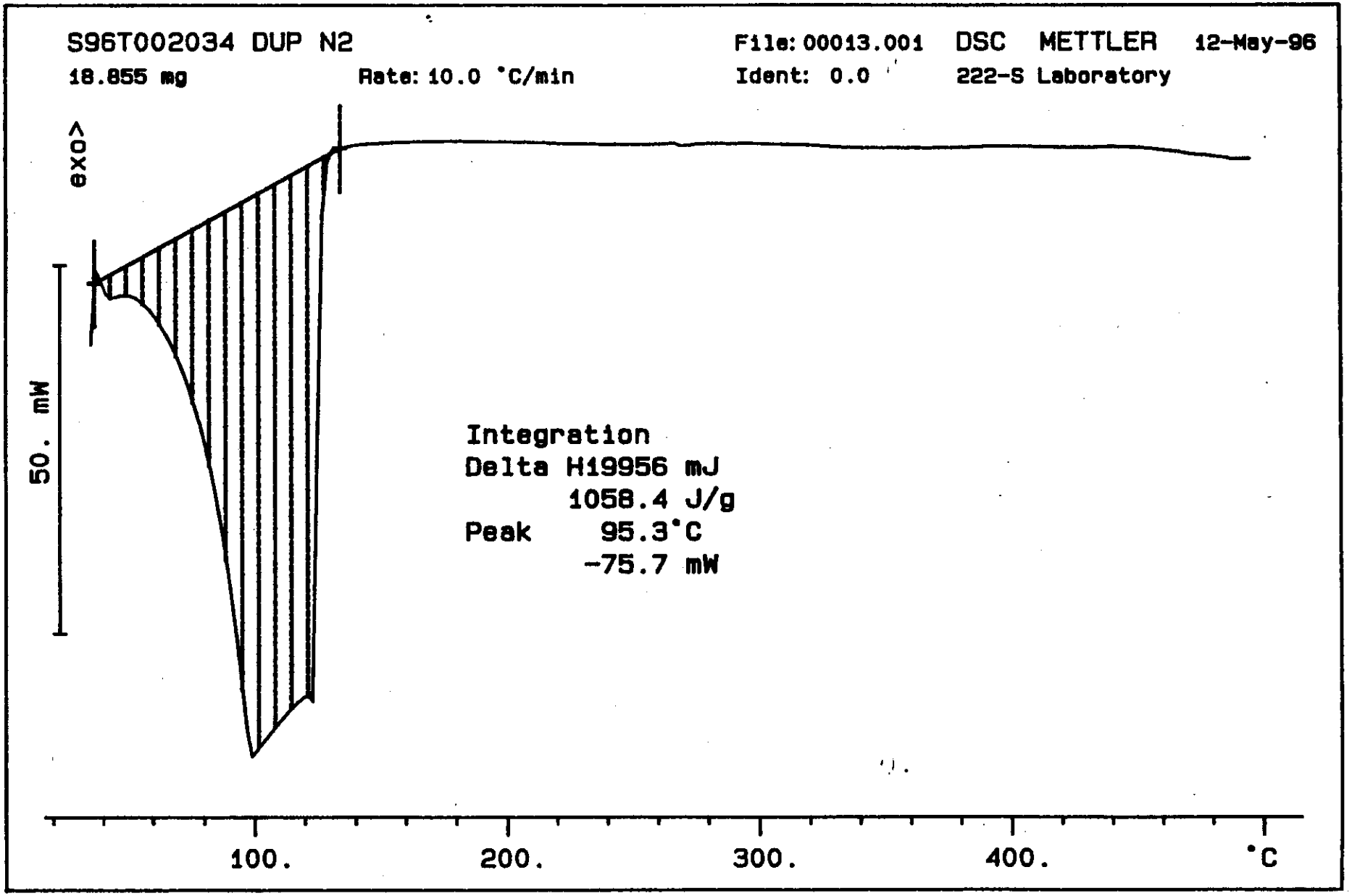
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-138 TO 2-140



Anthony Pruitt 5-12-96


S96T002034 SAM N2
19.600 mg
Rate: 10.0 °C/min
File: 00012.001
Ident: 0.0
DSC METTLER
222-S Laboratory
12-May-96
<exo
.05 mW
Integration
Delta H16348 mJ
834.1 J/g
Peak 101.3°C
-73.4 mW
100.
200.
300.
400.
°C


S96T002034 DUP N2
18.855 mg
Rate: 10.0 °C/min
File: 00013.001
Ident: 0.0
DSC METTLER
222-S Laboratory
12-May-96
exo>
50. mW
Integration
Delta H19956 mJ
1058.4 J/g
Peak 95.3°C
-75.7 mW
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
05/21/96 09:39

LABCORE Data Entry Template for Worklist# 8230

Analyst: ADP **Instrument:** DSC0 3 **Book #** 12N14B

Method: LA-514-114 Rev/Mod C-1

Worklist Comment: U-107. Run under nitrogen. new

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-03	SOLID	28.45	29.20	N/A	Joules/g
96000422	U-107	2 SAMPLE	S96T001874	0		DSC-03	SOLID	N/A	Ø		Joules/g
96000422	U-107	3 DUP	S96T001874	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 8230

See attached for signatures
Analyst Signature **Date** 5-21-96

RE Wright 5/21/96
Analyst Signature **Date**

Validated by BDV Alnastos 5.22.96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
05/01/96 14:21

LABCORE Data Entry Template for Worklist# 8230

Analyst: ADP **Instrument:** DSC0 3 **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107. Run under nitrogen. new

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID			N/A	Joules/g
96000422	U-107	2	SAMPLE	S96T001874	0		DSC-01	SOLID	N/A			Joules/g
96000422	U-107	3	DUP	S96T001874	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 8230

Anthony Parentis 5-16-96
Analyst Signature **Date**

Analyst Signature **Date**

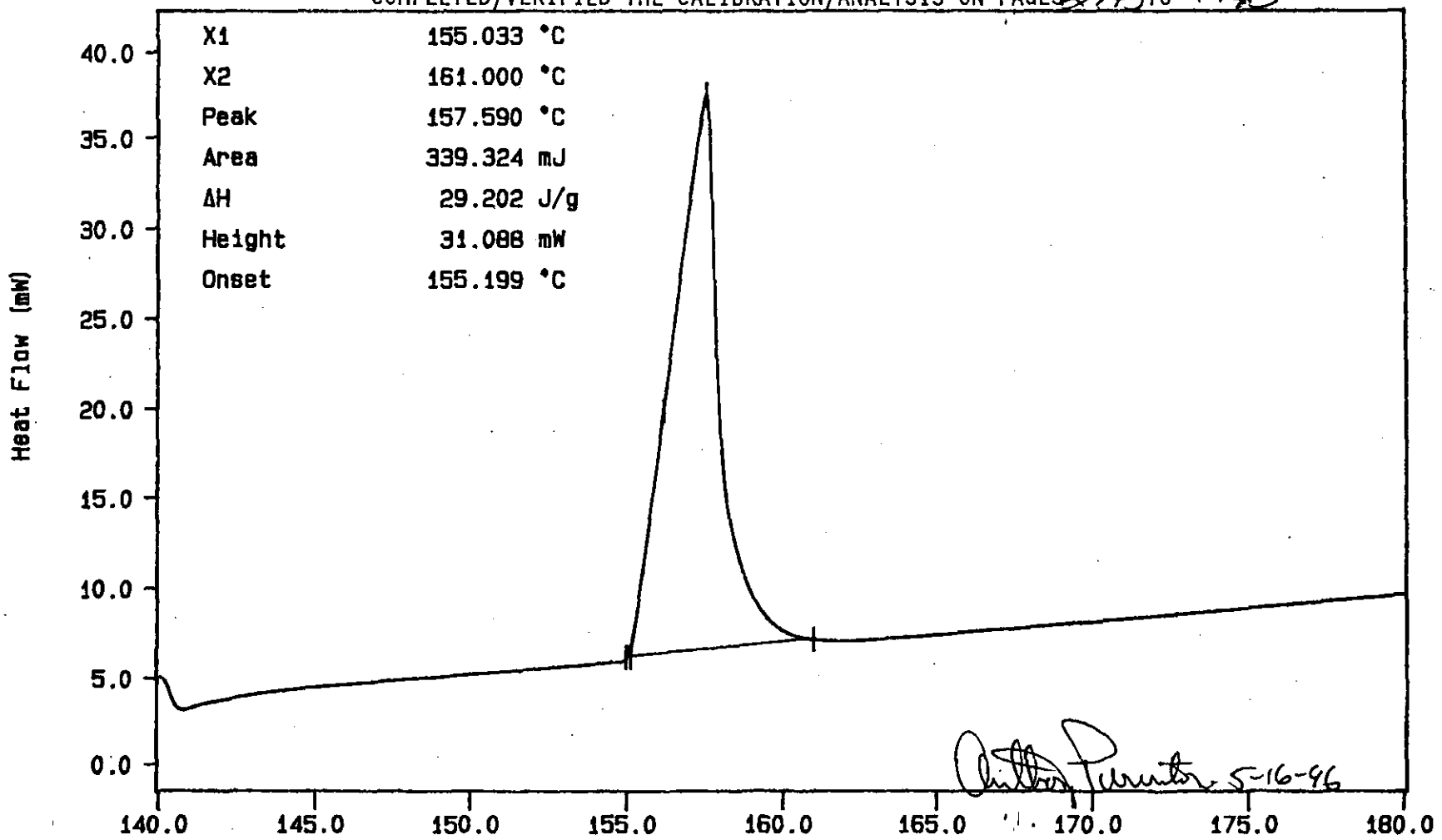
Other instrument was used.

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: IND051603 Thu May 16 22:33:50 1996
Sample Weight: 11.620 mg
12N14-B INDIUM AT 10C\MIN

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-143 TO 2-145

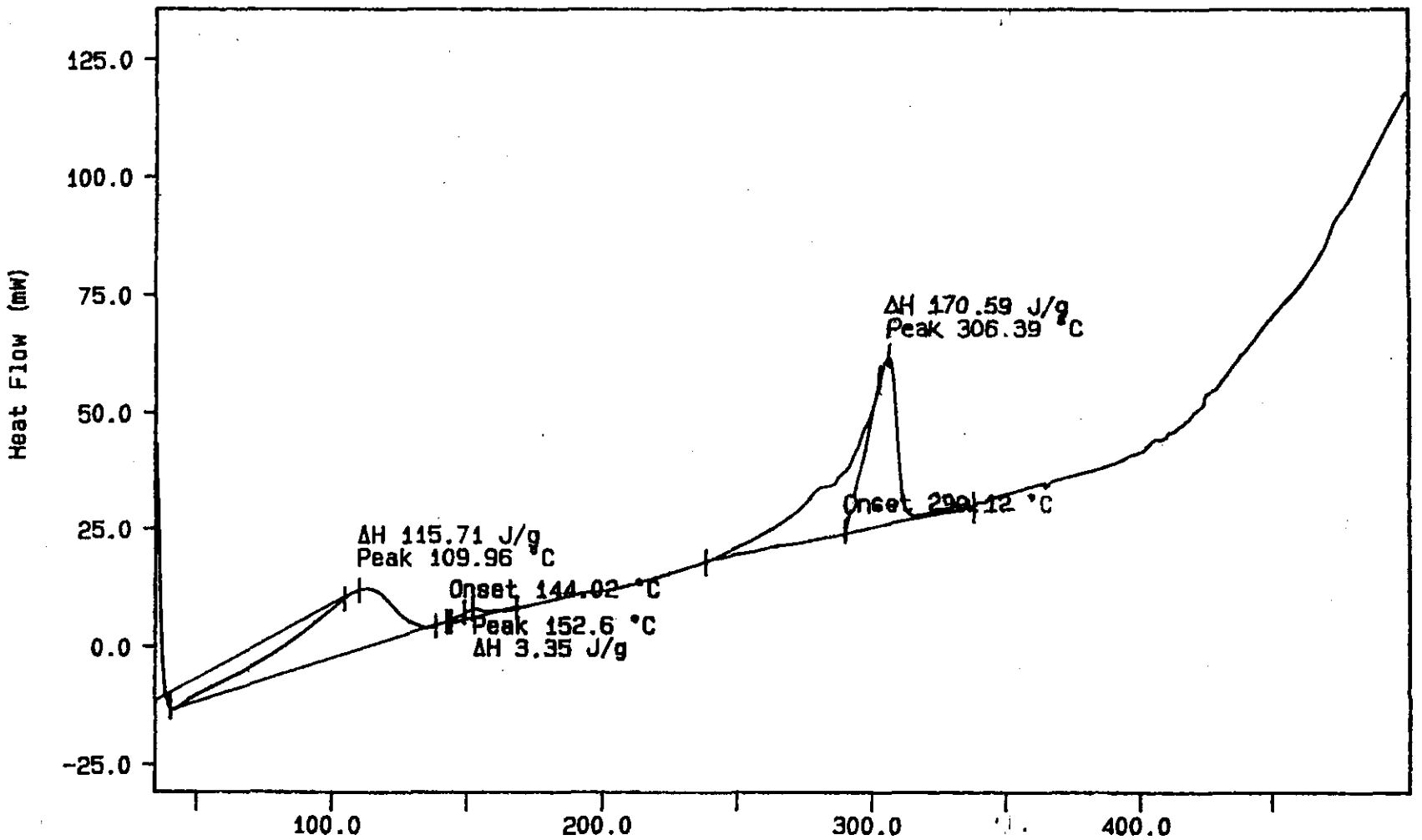


Ritter Purinton 5-16-96

N2, EXOTHERM DOWN
TEMP1: 140.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 180.0 C

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Thu May 16 22:39:44 1996

Curve 1: DSC
File info: SAM051601 Thu May 16 23:51:23 1996
Sample Weight: 28.110 mg
S96T001874 SAM

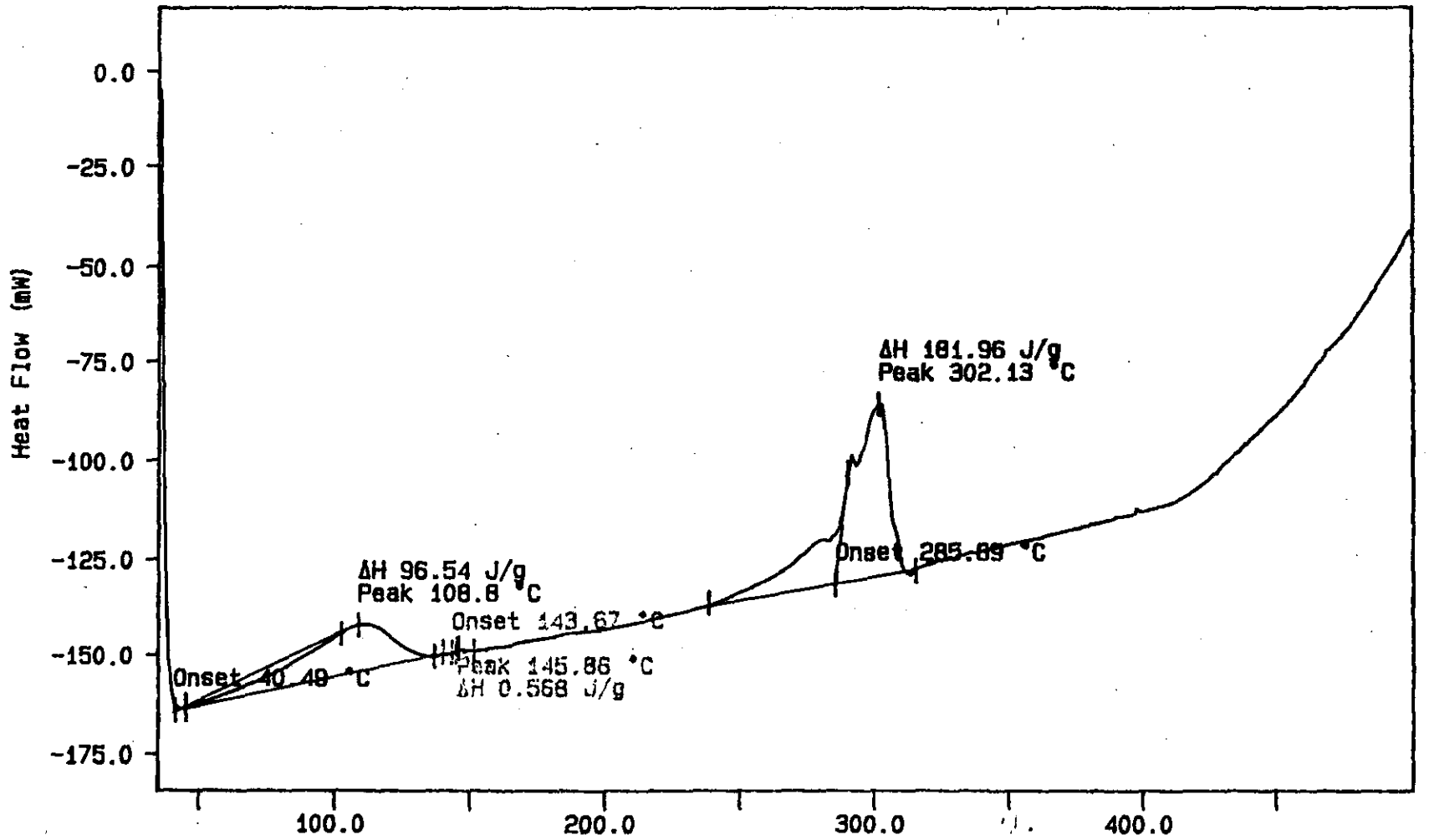


exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Thu May 16 23:58:47 1996

2-144

Curve 1: DSC
File info: SAM051602 Fri May 17 01:00:20 1996
Sample Weight: 30.990 mg
S96T001874 SAM



exotherm down, N2 purge gas

TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Fri May 17 01:02:48 1996

worklistrpt Version 2.1 05/15/95
05/21/96 09:00

LABCORE Data Entry Template for Worklist# 8245

Analyst: ADP **Instrument:** DSC0 71 5-21-96 BDV **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107. Run under nitrogen. new

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID	28.45	29.8	N/A	Joules/g
96000422	U-107	2	SAMPLE	S96T002132	0		DSC-01	SOLID	N/A	Ø		Joules/g
96000422	U-107	3	DUP	S96T002132	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 8245

See attached for signatures

Analyst Signature **Date** 5-21-96 BDV **Analyst Signature** **Date**

Validated by H Anastas 5-22-96

Data Entry Comments: The second endotherm on the thermogram maybe due to Aluminum Hydroxide.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
05/02/96 10:43

LABCORE Data Entry Template for Worklist# 8245

Analyst: APO **Instrument:** DSC0 _____ **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107. Run under nitrogen, new

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID			N/A	Joules/g
96000422	U-107	2	SAMPLE	S96T002131	0		DSC-01	SOLID	N/A			Joules/g
96000422	U-107	3	DUP STD	S96T002131	0		DSC-01	SOLID			N/A	Joules/g
96000422	U-107	4	SAMPLE	S96T002132	0		DSC-01	SOLID	N/A			Joules/g
96000422	U-107	5	DUP	S96T002132	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 8245

Anthony Parente 05-15-96
Analyst Signature **Date**

[illegible] 5/21/96
Analyst Signature **Date**

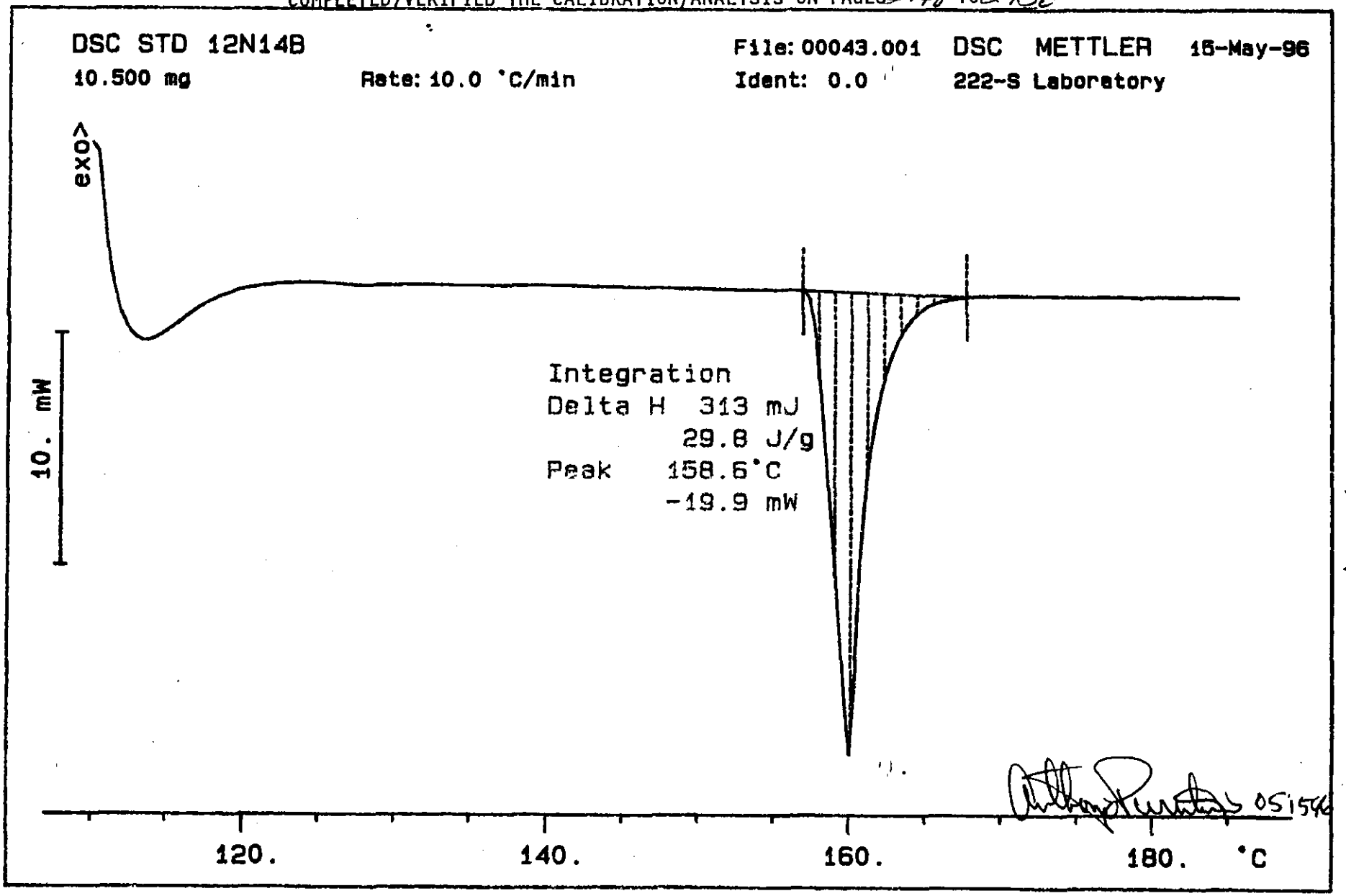
S96T002131 moved to WL# 9028

5-21-96

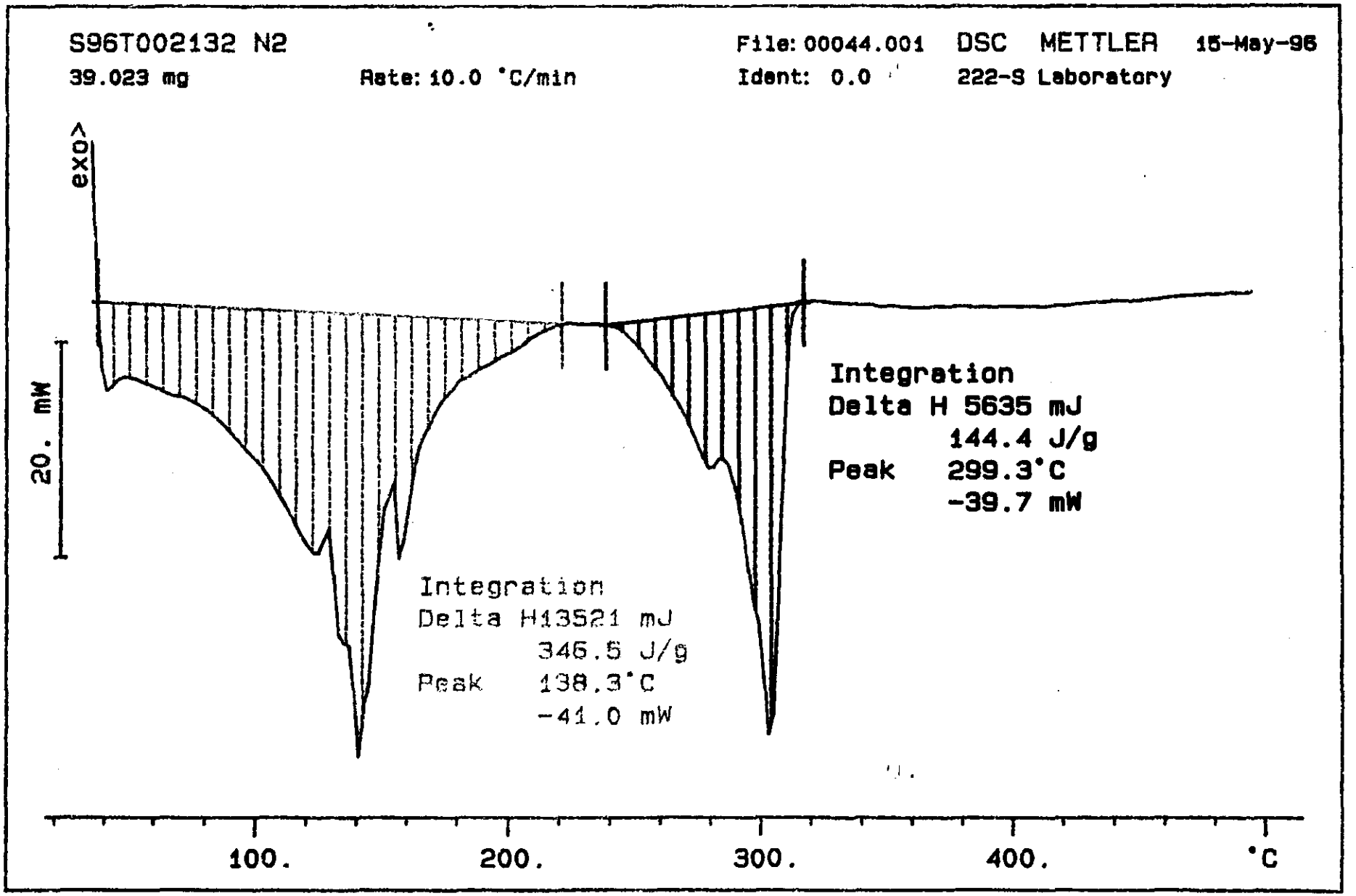
Data Entry Comments:

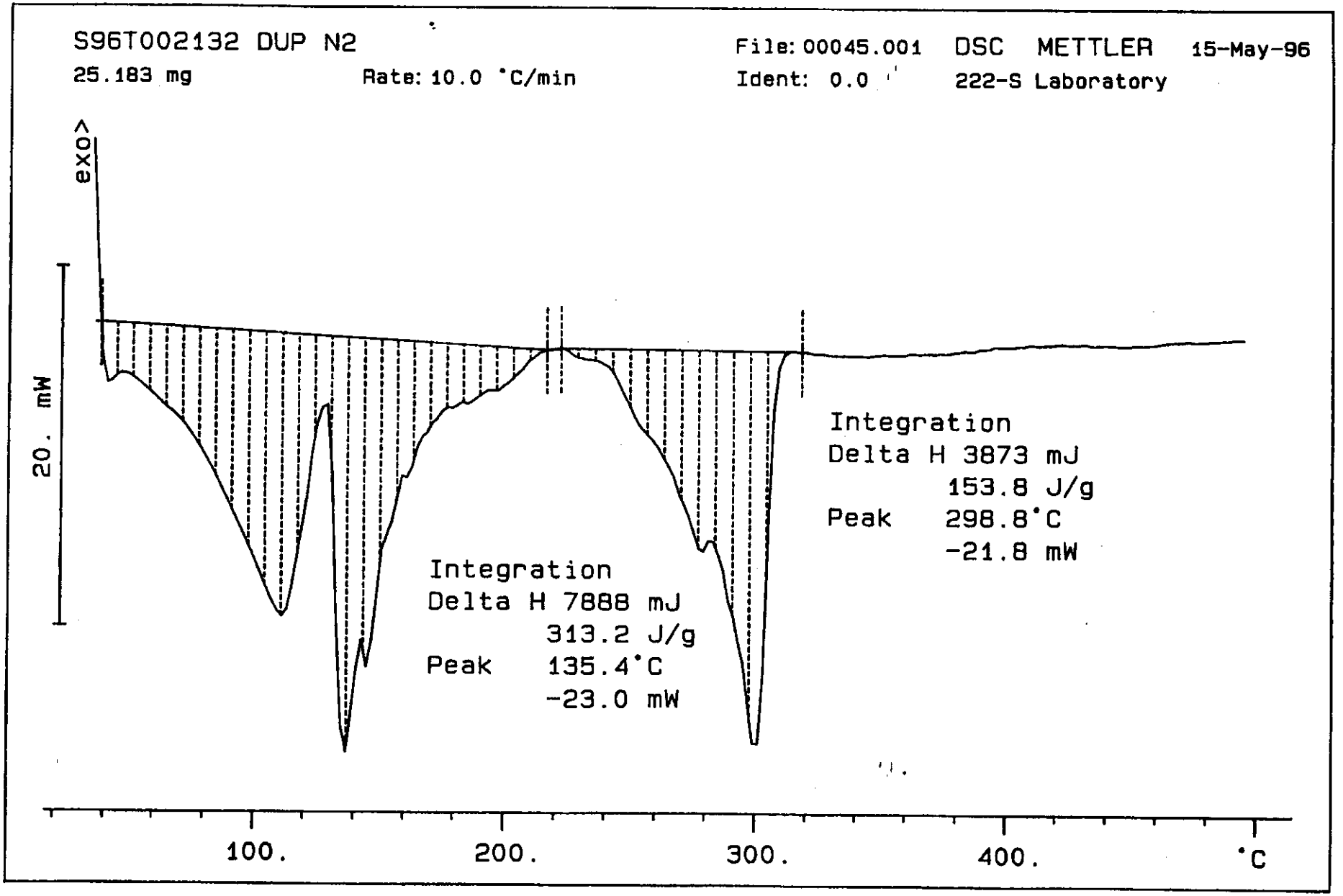
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2148 TO 2150



05/15/96


S96T002132 N2
39.023 mg
Rate: 10.0 °C/min
File: 00044.001
Ident: 0.0
DSC METTLER
222-S Laboratory
15-May-96
exo>
20. mW
Integration
Delta H 5635 mJ
144.4 J/g
Peak 299.3°C
-39.7 mW
Integration
Delta H13521 mJ
346.5 J/g
Peak 138.3°C
-41.0 mW
100.
200.
300.
400.
°C


S96T002132 DUP N2
25.183 mg
Rate: 10.0 °C/min
File: 00045.001
Ident: 0.0
DSC METTLER
222-S Laboratory
15-May-96
exo>
20. mW
Integration
Delta H 7888 mJ
313.2 J/g
Peak 135.4°C
-23.0 mW
Integration
Delta H 3873 mJ
153.8 J/g
Peak 298.8°C
-21.8 mW
100.
200.
300.
400.
°C

LABCORE Data Entry Template for Worklist# 8437

Analyst: KRM **Instrument:** DSC0 1 **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	LIQUID	28.45	30.3	N/A	Joules/g
96000422	U-107	2 SAMPLE	S96T002140	0		DSC-01	LIQUID	N/A	256.4		Joules/g
96000422	U-107	3 DUP	S96T002140	0		DSC-01	LIQUID	256.4	274.3	N/A	Joules/g
96000422	U-107	4 SAMPLE	S96T002141	0		DSC-01	LIQUID	N/A	296.2		Joules/g
96000422	U-107	5 DUP	S96T002141	0		DSC-01	LIQUID	296.2	273.3	N/A	Joules/g

Final page for worklist # 8437

5-8-96
Analyst Signature **Date**

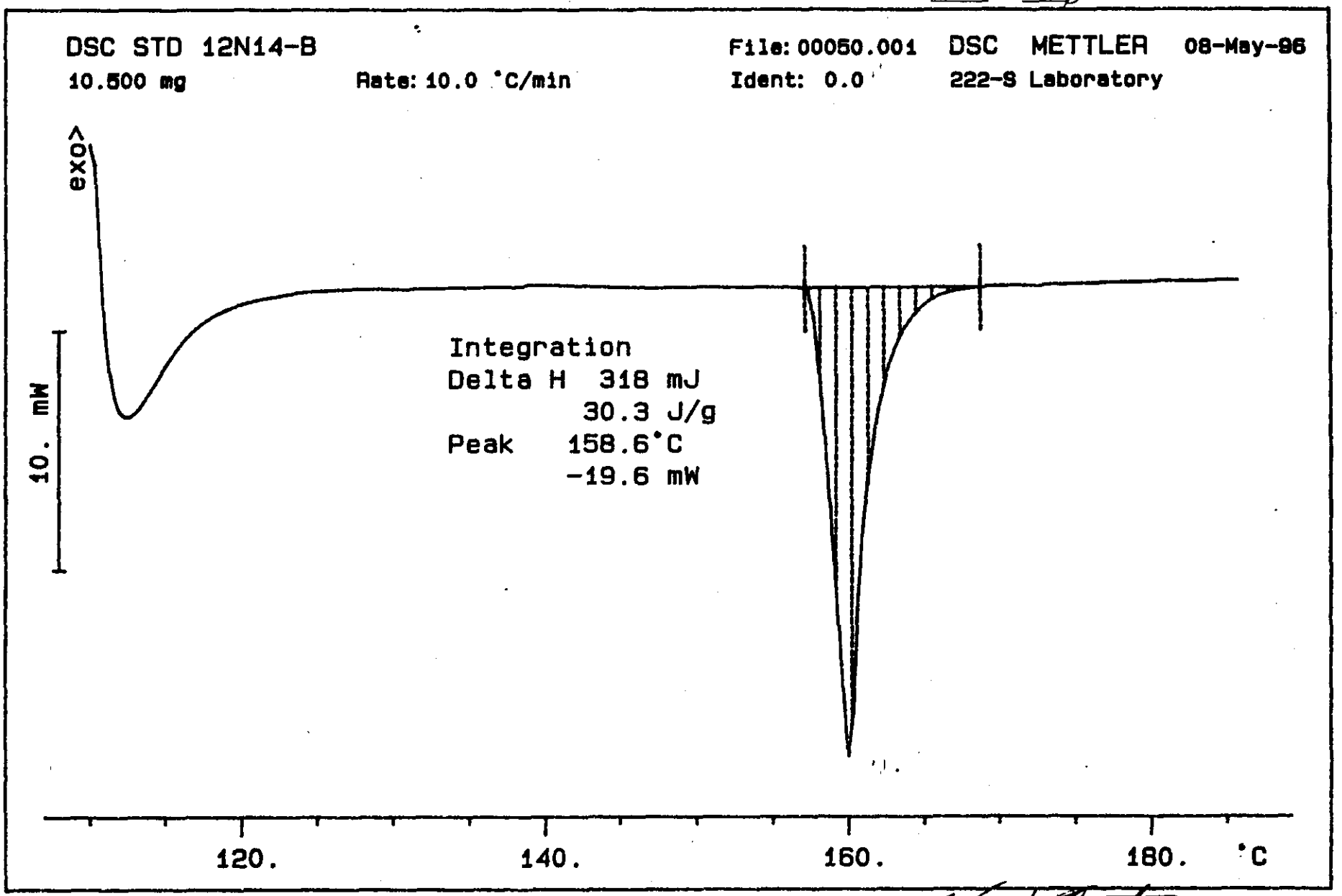
5-13-96
Analyst Signature **Date**

Validated by H Anastas 5-14-96

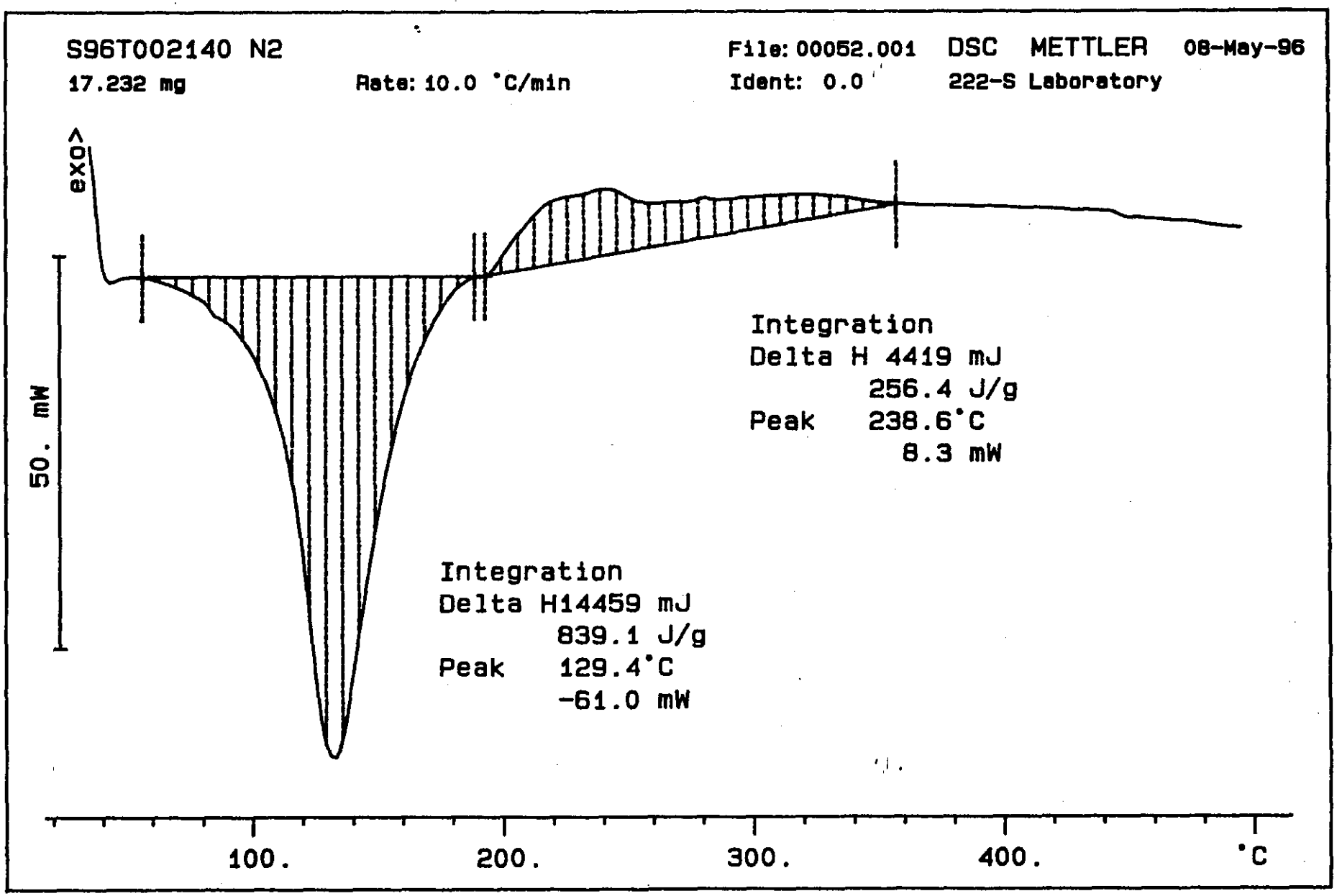
Data Entry Comments:

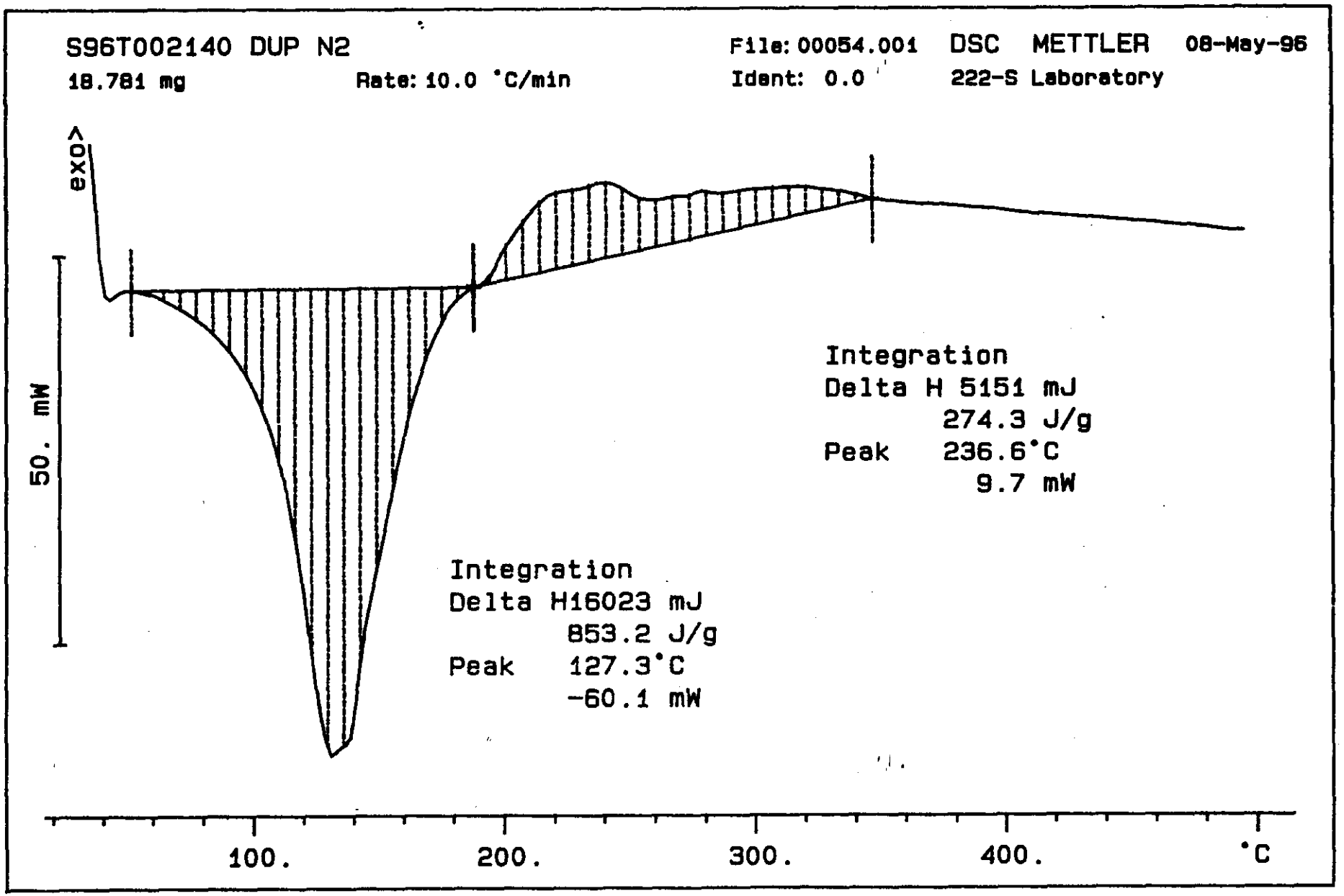
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

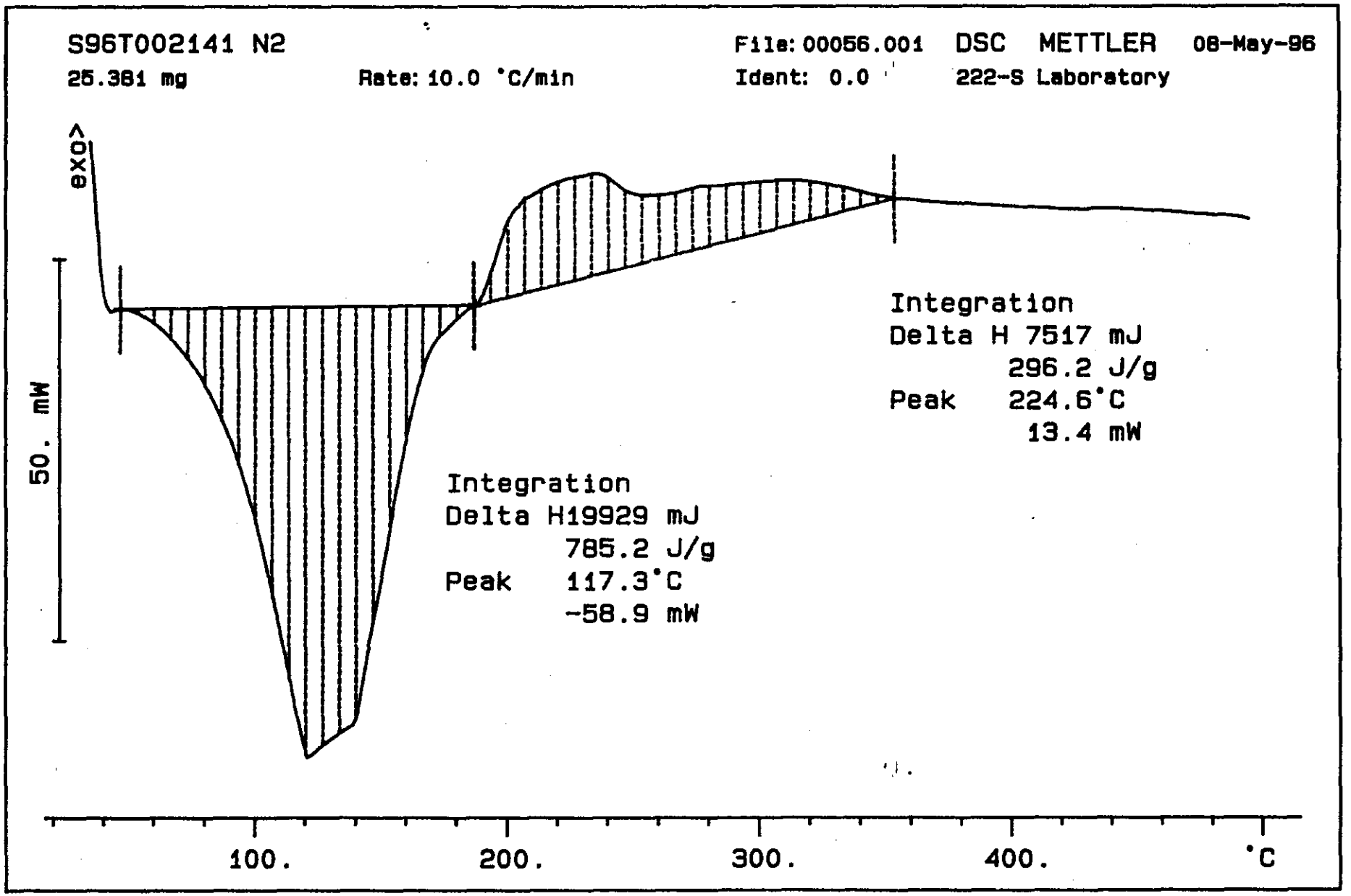
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-152 TO 2-156

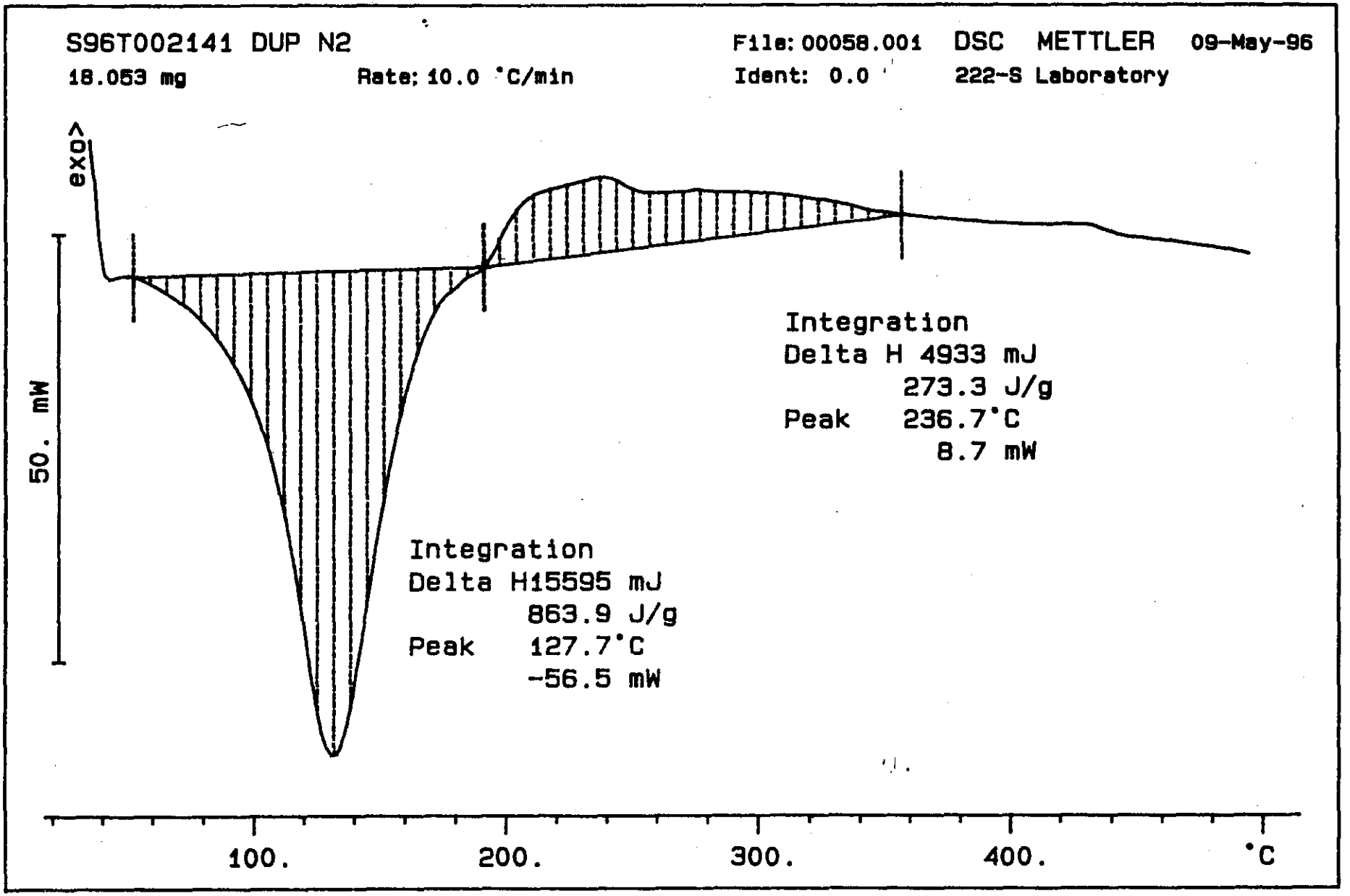


5-8-96


S96T002140 N2
17.232 mg
Rate: 10.0 °C/min
File: 00052.001
Ident: 0.0
DSC METTLER 08-May-96
222-S Laboratory
exo>
mW .05
Integration
Delta H 4419 mJ
256.4 J/g
Peak 238.6°C
8.3 mW
Integration
Delta H14459 mJ
839.1 J/g
Peak 129.4°C
-61.0 mW
100.
200.
300.
400.
°C


S96T002140 DUP N2
18.781 mg
Rate: 10.0 °C/min
File: 00054.001
Ident: 0.0
DSC METTLER
222-S Laboratory
08-May-96
exo>
50. mW
Integration
Delta H 5151 mJ
274.3 J/g
Peak 236.6°C
9.7 mW
Integration
Delta H16023 mJ
853.2 J/g
Peak 127.3°C
-60.1 mW
100.
200.
300.
400.
°C


S96T002141 N2
25.381 mg
Rate: 10.0 °C/min
File: 00056.001
Ident: 0.0
DSC METTLER
222-S Laboratory
08-May-96
<exo
50. mW
Integration
Delta H 7517 mJ
296.2 J/g
Peak 224.6°C
13.4 mW
Integration
Delta H19929 mJ
785.2 J/g
Peak 117.3°C
-58.9 mW
100.
200.
300.
400.
°C


S96T002141 DUP N2
18.053 mg
Rate: 10.0 °C/min
File: 00058.001
Ident: 0.0
DSC METTLER
222-S Laboratory
09-May-96
exo>
50. mW
Integration
Delta H 4933 mJ
273.3 J/g
Peak 236.7°C
8.7 mW
Integration
Delta H15595 mJ
863.9 J/g
Peak 127.7°C
-56.5 mW
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
05/13/96 11:51

LABCORE Data Entry Template for Worklist# 8438

Analyst: ADP **Instrument:** DSC0 3 **Book #** 12N14B

Method: LA-514-114 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-03	LIQUID	28.45	28.91	* N/A	Joules/g
96000422	U-107	2 SAMPLE	S96T002142	0	DSC-03	LIQUID	N/A	Ø		Joules/g
96000422	U-107	3 DUP	S96T002142	0	DSC-03	LIQUID	Ø	Ø	N/A	Joules/g

Final page for worklist # 8438

See Attached for Signatures
Analyst Signature **Date**

[illegible] 5-14-96
Analyst Signature **Date**

Validated by H Anastn 5-15-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
05/07/96 11:14

LABCORE Data Entry Template for Worklist# 8438

Analyst: ADP **Instrument:** DSC0 3 **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	LIQUID			N/A	Joules/g
96000422	U-107	2	SAMPLE	S96T002142	0		DSC-01	LIQUID	N/A			Joules/g
96000422	U-107	3	DUP	S96T002142	0		DSC-01	LIQUID			N/A	Joules/g

Final page for worklist # 8438

Anthony Purnton 5-12-96

Analyst Signature **Date** **Analyst Signature** **Date**

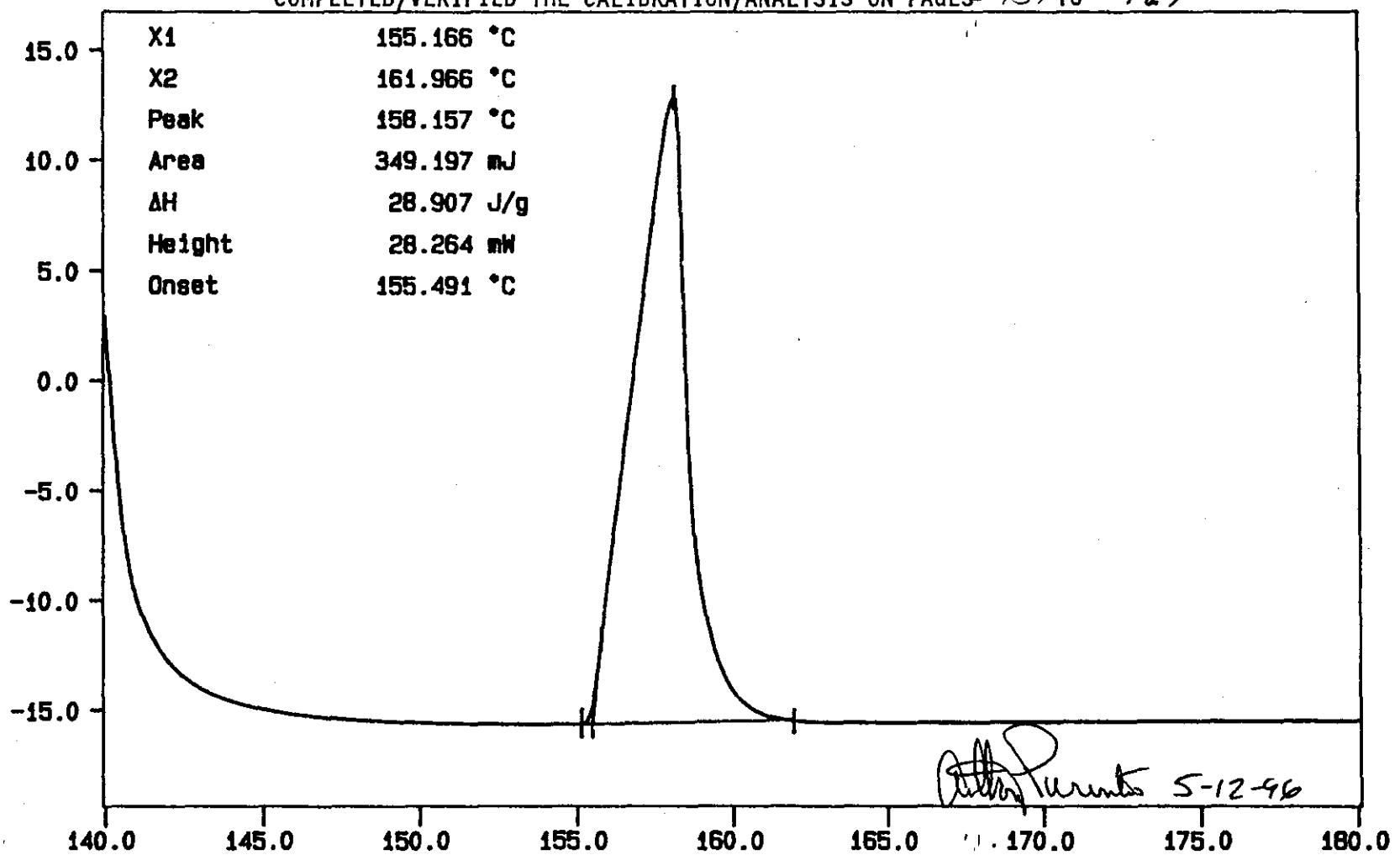
Other Instrument was used.

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: IND051201 Sun May 12 05:48:54 1996
Sample Weight: 12.080 mg
12N14-B INDIUM AT 10C\MIN

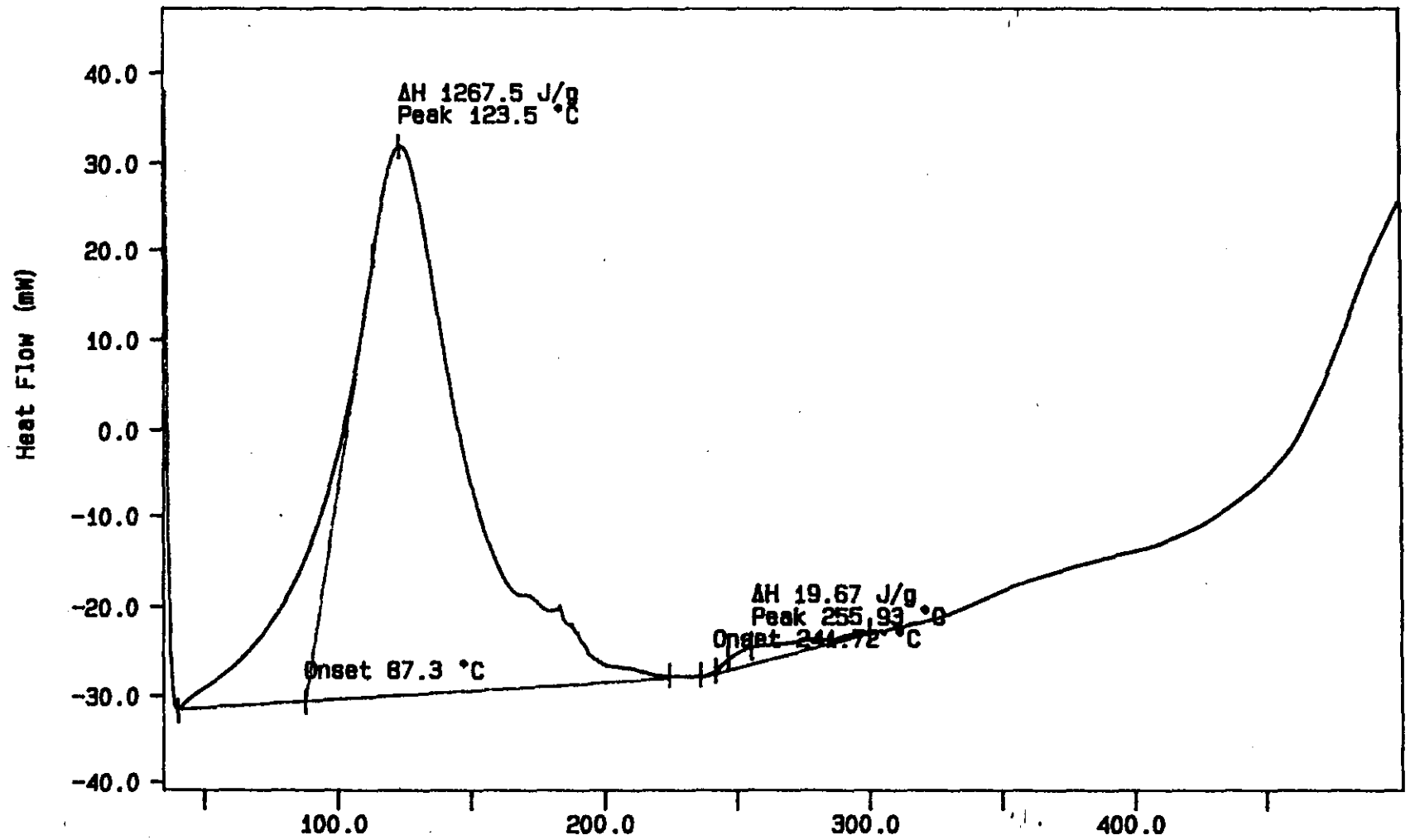
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-159 TO 2-161



N2, EXOTHERM DOWN
TEMP1: 140.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 180.0 C

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sun May 12 06:54:25 1996

Curve 1: DSC
File info: SAM051208 Sun May 12 14:08:35 1996
Sample Weight: 15.800 mg
S96T002142 SAM

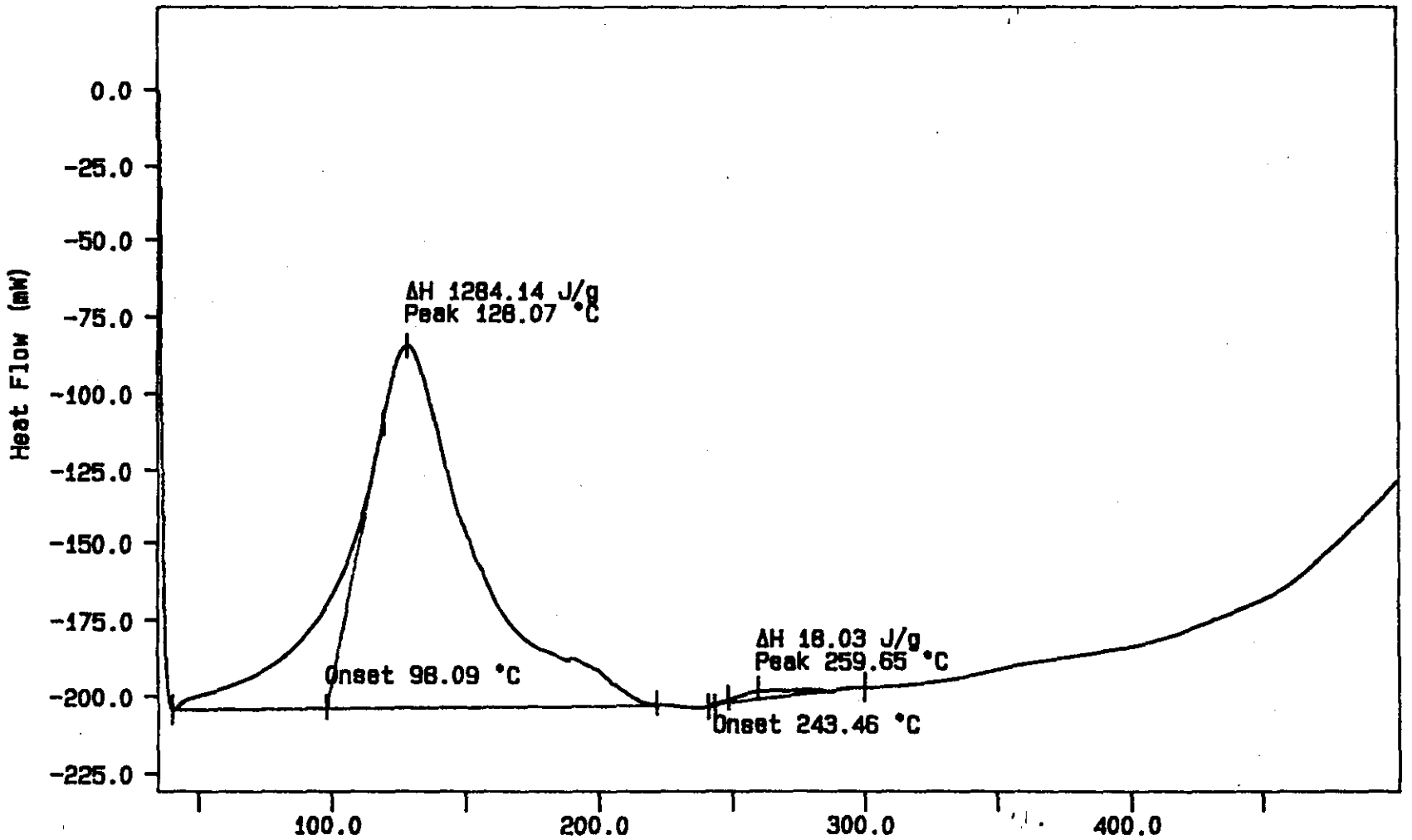


exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sun May 12 14:09:39 1996

2-100

Curve 1: DSC
File info: SAM051209 Sun May 12 15:04:10 1996
Sample Weight: 29.510 mg
S96T002142 DUP



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sun May 12 15:23:42 1996

worklistrpt Version 2.1 05/15/95
05/07/96 11:17

LABCORE Data Entry Template for Worklist# 8439

Analyst: ANP **Instrument:** DSC0 1 **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	29.2*	N/A	Joules/g
96000422	U-107	2 SAMPLE	S96T002133	0		DSC-01	SOLID	N/A	Ø		Joules/g
96000422	U-107	3 DUP	S96T002133	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 8439

Anthony Pennington 5-15-96
Analyst Signature **Date**

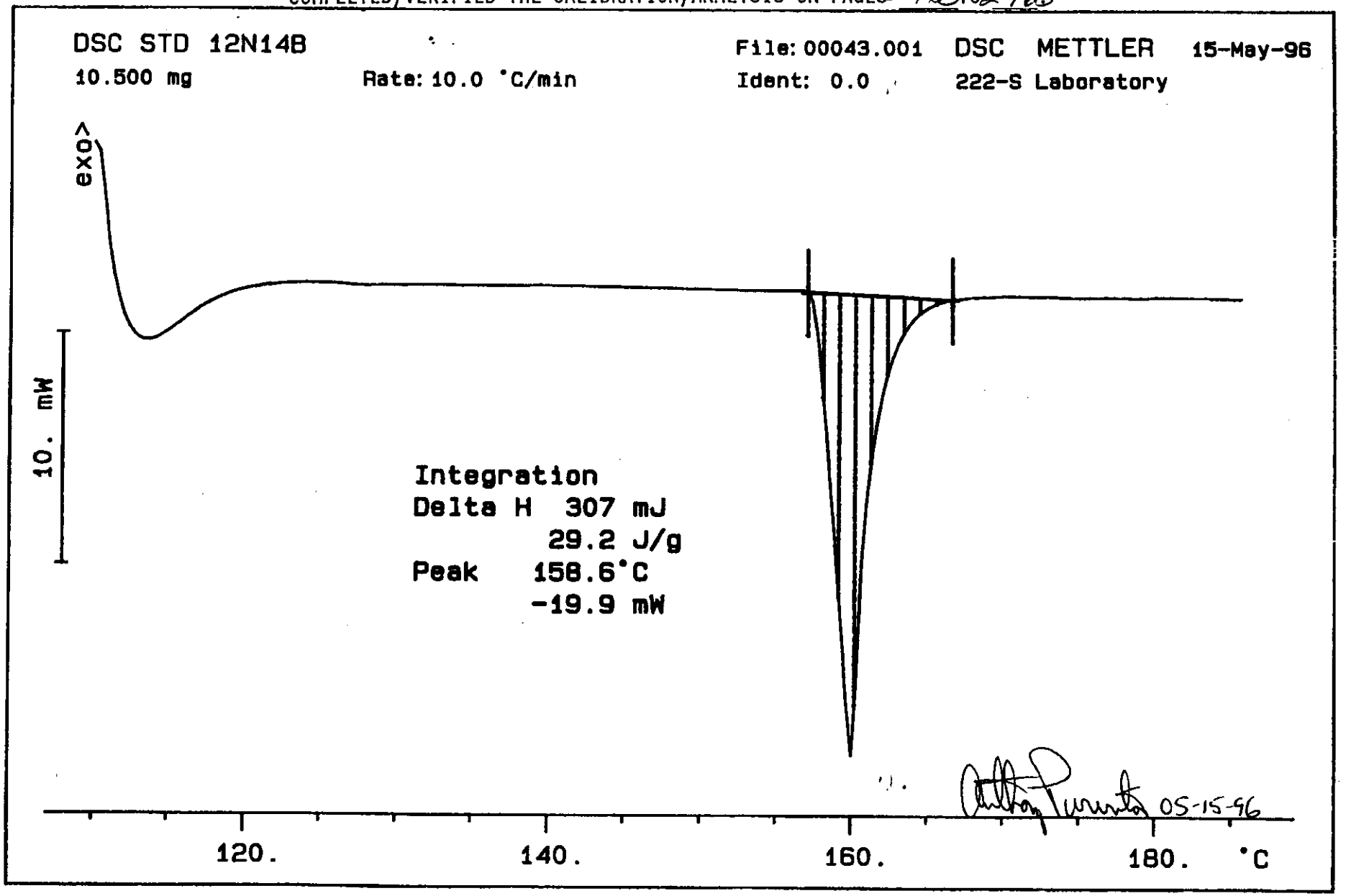
TE Wright 5/21/96
Analyst Signature **Date**

Validated by H Anaotu 5-22-96

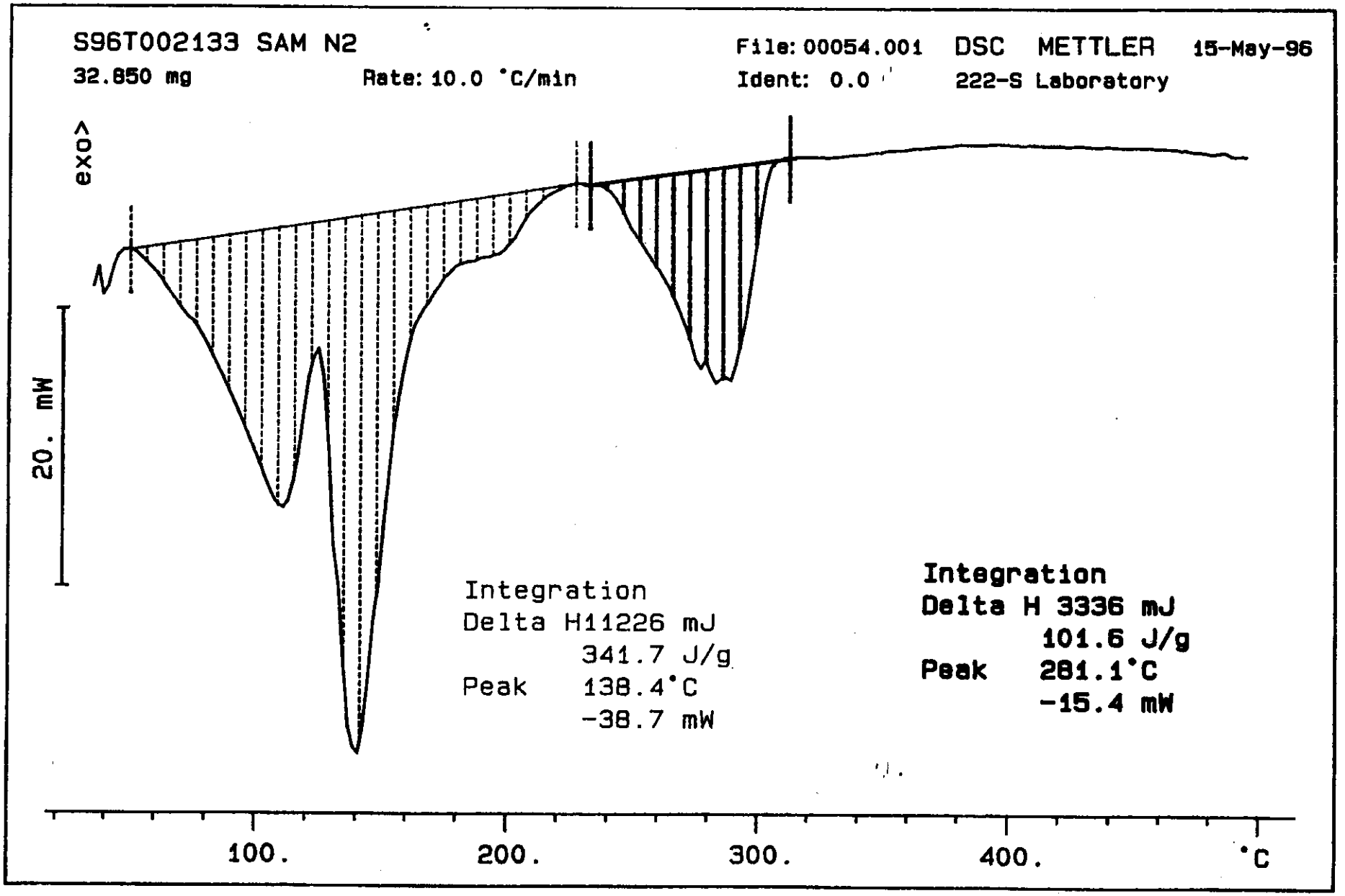
Data Entry Comments:

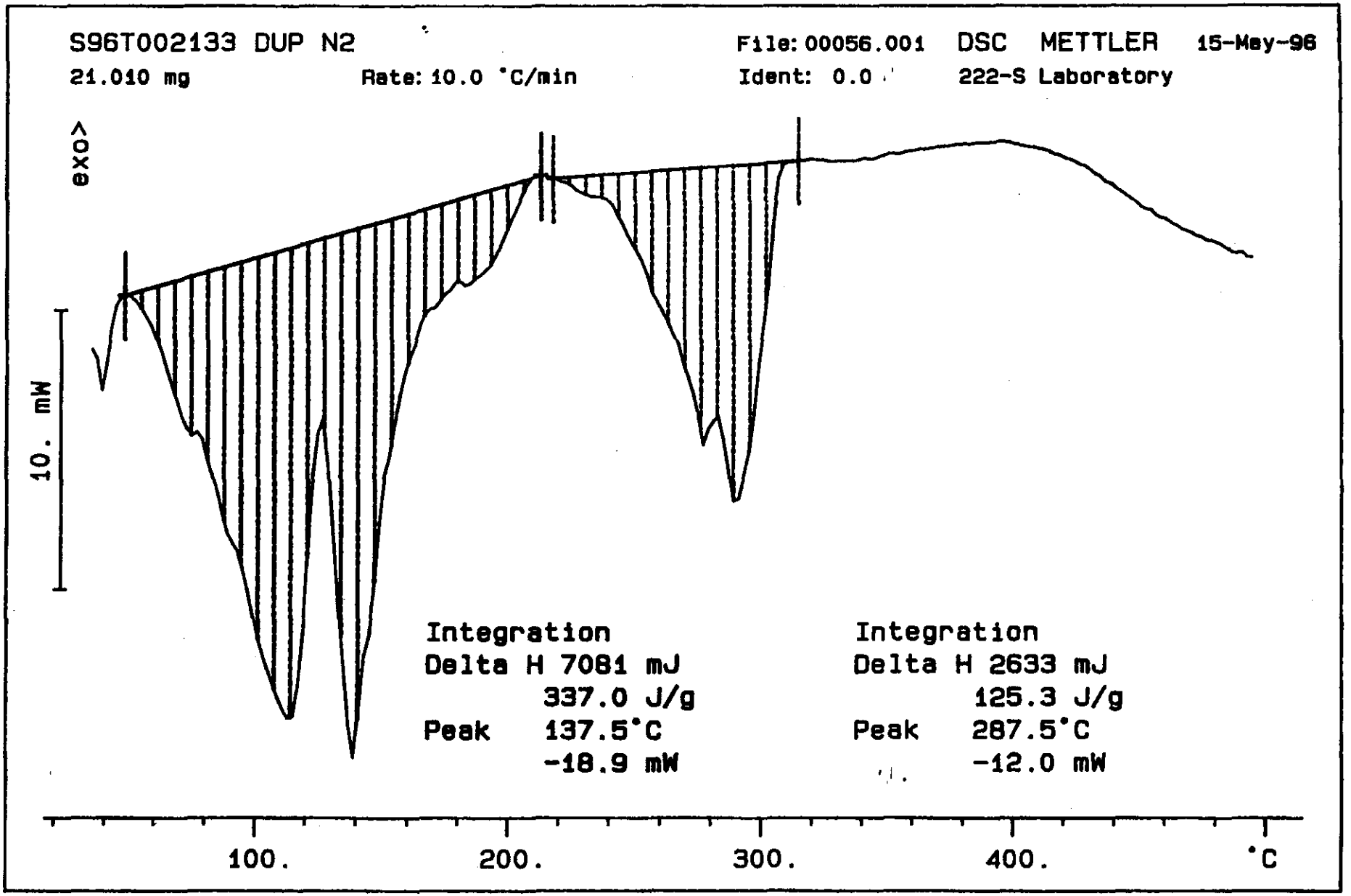
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-163 TO 2-165



Anthony Pirrunto 05-15-96


S96T002133 SAM N2
32.850 mg
Rate: 10.0 °C/min
File: 00054.001
Ident: 0.0
DSC METTLER
222-S Laboratory
15-May-96
exo>
20. mW
Integration
Delta H11226 mJ
341.7 J/g
Peak 138.4°C
-38.7 mW
Integration
Delta H 3336 mJ
101.6 J/g
Peak 281.1°C
-15.4 mW
100.
200.
300.
400.
°C


S96T002133 DUP N2
21.010 mg
Rate: 10.0 °C/min
File: 00056.001
Ident: 0.0
DSC METTLER
222-S Laboratory
15-May-96
exo>
10. mW
Integration
Delta H 7081 mJ
337.0 J/g
Peak 137.5°C
-18.9 mW
Integration
Delta H 2633 mJ
125.3 J/g
Peak 287.5°C
-12.0 mW
100.
200.
300.
400.
°C

LABCORE Data Entry Template for Worklist# 8949

Analyst: RJ McCown **Instrument:** DSC0 1 **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-107 FOR DSC-01 RUN UNDER N2 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	LIQUID	28.45	32.3	N/A	Joules/g
96000422	U-107	2 SAMPLE	S96T001866	0	DSC-01	LIQUID	N/A	Ø		Joules/g
96000422	U-107	3 DUP	S96T001866	0	DSC-01	LIQUID	Ø	Ø	N/A	Joules/g

Final page for worklist # 8949

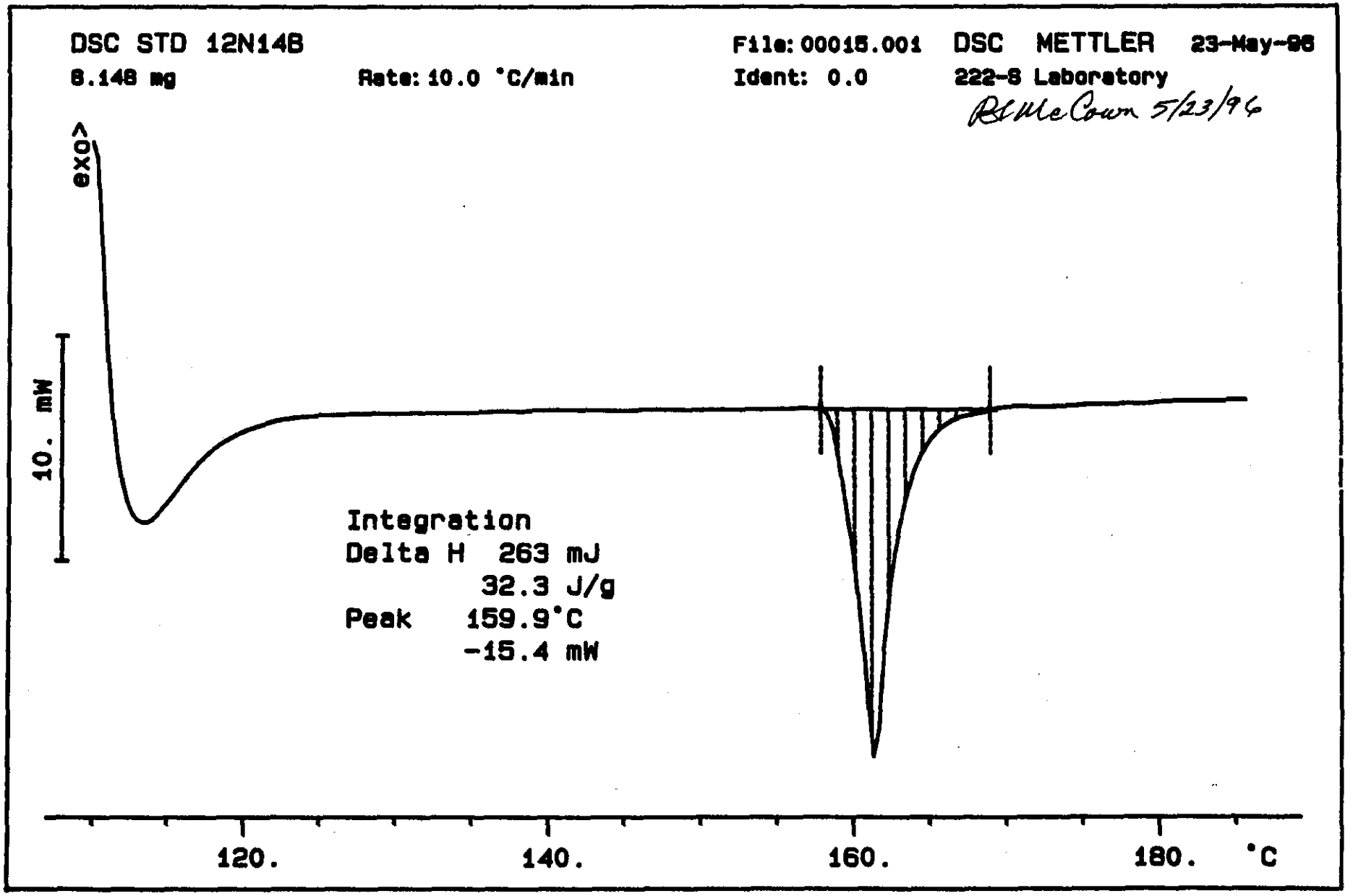
RJ McCown 5/23/96
Analyst Signature Date

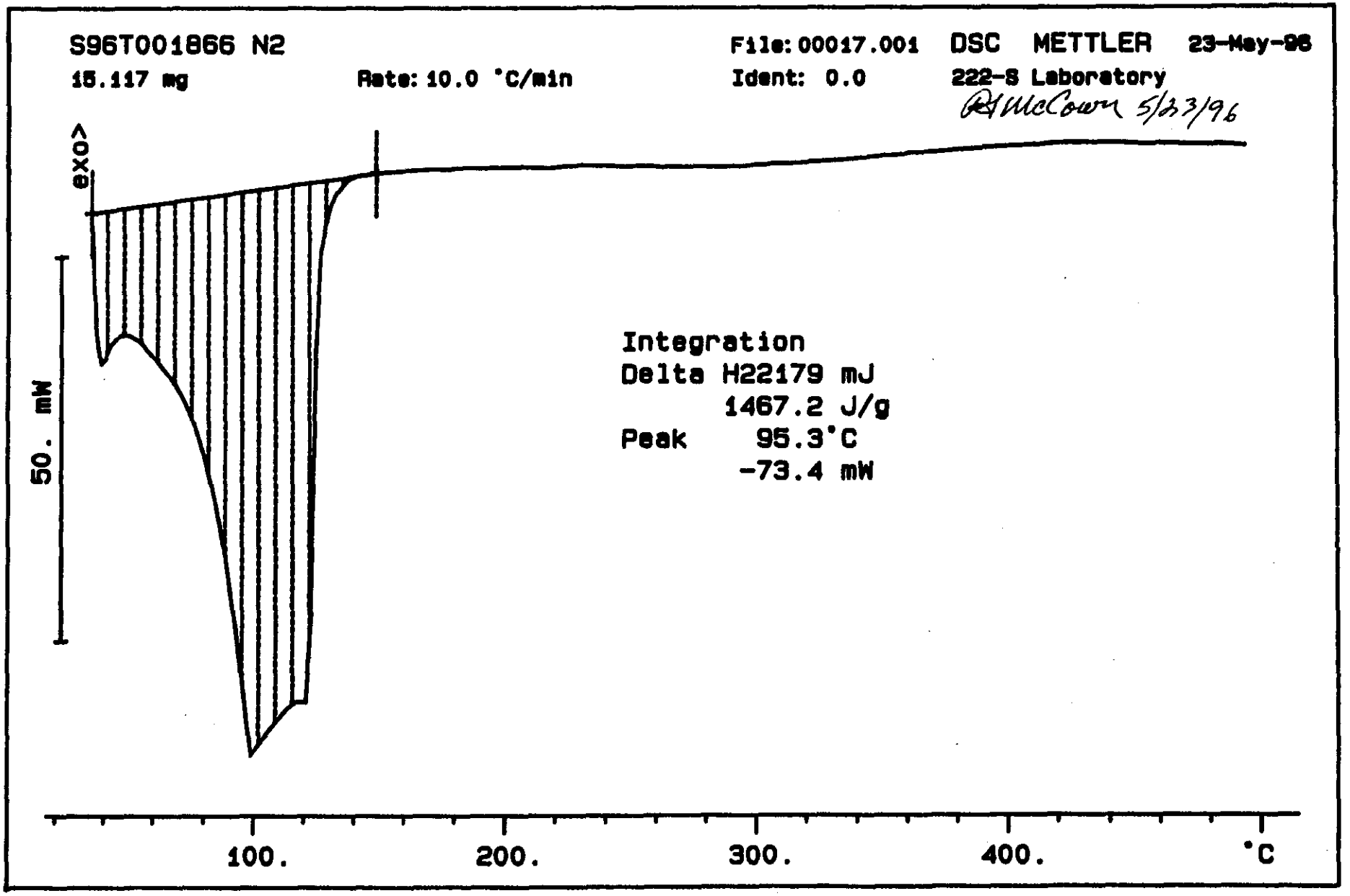
RJ Stahl 5-28-96
Analyst Signature Date

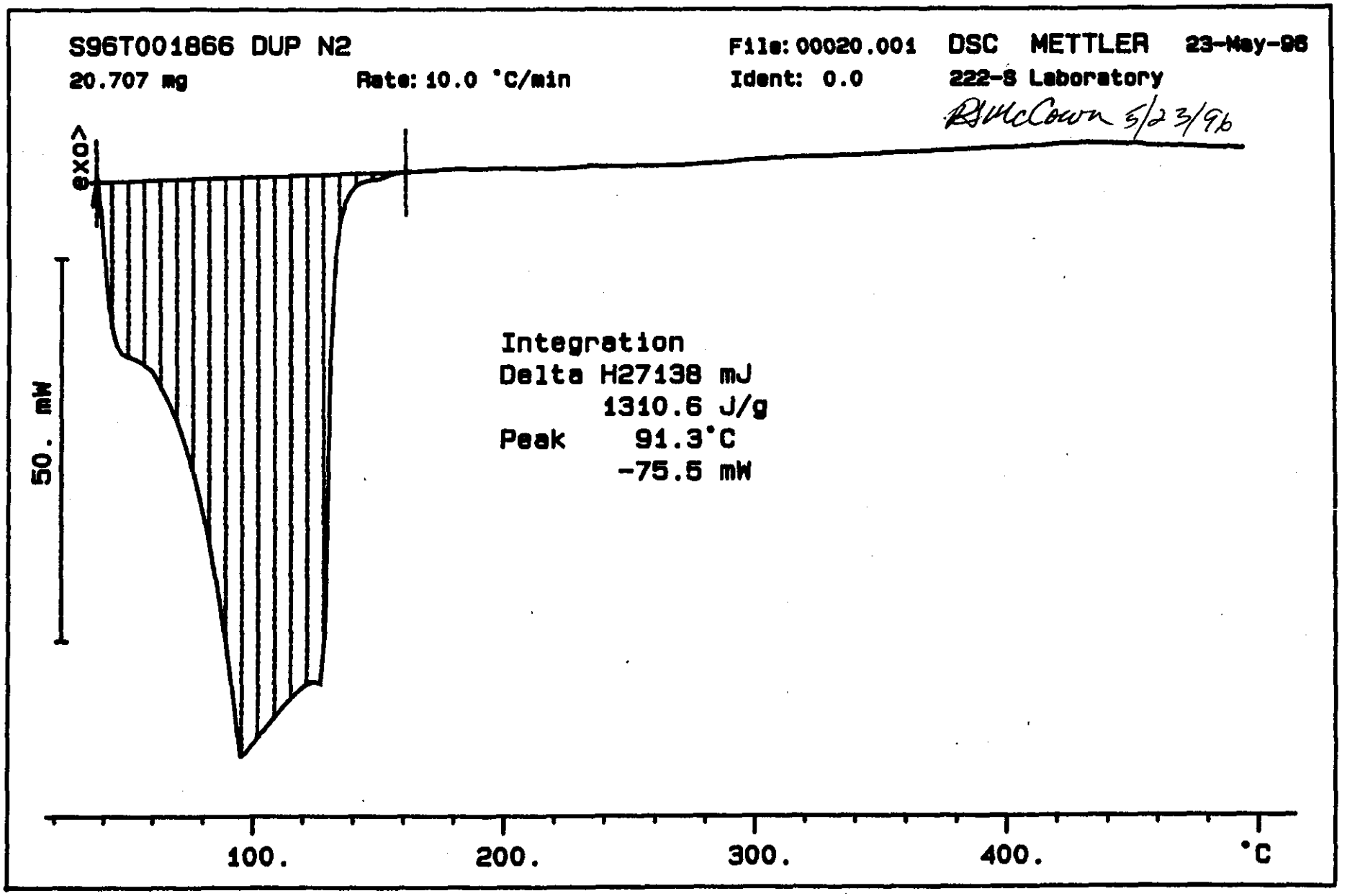
Verified/validated by
Blandina Valenzuela 5-31-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.


DSC STD 12N14B
8.148 mg
Rate: 10.0 °C/min
File: 00015.001
Ident: 0.0
DSC METTLER
23-May-96
222-8 Laboratory
RSMcCown 5/23/96
exo>
10. mW
Integration
Delta H 263 mJ
32.3 J/g
Peak 159.9°C
-15.4 mW
120.
140.
160.
180.
°C


S96T001866 N2
15.117 mg
Rate: 10.0 °C/min
File: 00017.001
Ident: 0.0
DSC METTLER 23-May-96
222-S Laboratory
RH McCown 5/23/96
<exo
50. mW
Integration
Delta H22179 mJ
1467.2 J/g
Peak 95.3°C
-73.4 mW
100.
200.
300.
400.
°C


S96T001866 DUP N2
20.707 mg
Rate: 10.0 °C/min
File: 00020.001
Ident: 0.0
DSC METTLER
222-S Laboratory
23-May-96
RJ McCown 5/23/96
exo>
50. mW
Integration
Delta H27138 mJ
1310.6 J/g
Peak 91.3°C
-75.5 mW
100.
200.
300.
400.
°C

LABCORE Data Entry Template for Worklist# 9021

Analyst: BDV **Instrument:** DSC01 **Book #** —

Method: LA-514-113 Rev/Mod —

Worklist Comment: Dry DSC for U-107. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
96000085	U-107	1 SAMPLE	S96T000665	0		DSC-02	LIQUID	N/A	117.2		Joules/g Dry
96000085	U-107	2 DUP	S96T000665	0		DSC-02	LIQUID	117.2	114.8	N/A	Joules/g Dry
96000085	U-107	3 SAMPLE	S96T000682	0		DSC-02	LIQUID	N/A	129.7		Joules/g Dry
96000085	U-107	4 DUP	S96T000682	0		DSC-02	LIQUID	129.7	126.6	N/A	Joules/g Dry
96000422	U-107	5 SAMPLE	S96T002140	0		DSC-02	LIQUID	N/A	539.9		Joules/g Dry
96000422	U-107	6 DUP	S96T002140	0		DSC-02	LIQUID	539.9	577.6	N/A	Joules/g Dry
96000126	U-107	7 SAMPLE	S96T001119	0		DSC-02	LIQUID	N/A	Ø		Joules/g Dry
96000126	U-107	8 DUP	S96T001119	0		DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry
96000126	U-107	9 SAMPLE	S96T001120	0		DSC-02	LIQUID	N/A	Ø		Joules/g Dry
96000126	U-107	10 DUP	S96T001120	0		DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry
96000126	U-107	11 SAMPLE	S96T001121	0		DSC-02	LIQUID	N/A	Ø		Joules/g Dry
96000126	U-107	12 DUP	S96T001121	0		DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry
96000126	U-107	13 SAMPLE	S96T002034	0		DSC-02	LIQUID	N/A	Ø		Joules/g Dry
96000126	U-107	14 DUP	S96T002034	0		DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry
96000422	U-107	15 SAMPLE	S96T002141	0		DSC-02	LIQUID	N/A	559.2		Joules/g Dry
96000422	U-107	16 DUP	S96T002141	0		DSC-02	LIQUID	559.2	516.0	N/A	Joules/g Dry
96000422	U-107	17 SAMPLE	S96T002142	0		DSC-02	LIQUID	N/A	Ø		Joules/g Dry
96000422	U-107	18 DUP	S96T002142	0		DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 9021

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT

Final page for worklist # 9021

Blandina Valenzuela 5-28-96
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

11-107

CALCULATED DRY DSC			
SAMPLE NO.	DSC RESULT (J/g)	TGA RESULT (% water)	DRY DSC RESULT
S96T000665	54.8	53.23	117.2
665D	53.7	53.23	114.8
682	65.3	49.67	5-22-96 ~~139.6~~ 129.7
682D	63.7	49.67	126.6
1866	5-29-96 ~~NO~~ DOSE	5-29-96 ~~NO~~ DOSE	
1866D			
2140	256.4	52.51	539.9
2140D	274.3	52.51	577.6
1119	Ø	—	Ø
1119D	Ø	—	Ø
1120	Ø	—	Ø
1120D	Ø	—	Ø
1121	Ø	—	Ø
1121D	Ø	—	Ø
2034	Ø	98.16	Ø
2034D	Ø	98.16	Ø
2141	296.2	47.03	559.2
2141D	273.3	47.03	516.0
2142	Ø	—	Ø
2142D	Ø	—	Ø

LABCORE Data Entry Template for Worklist# 9022

Analyst: BDV **Instrument:** DSC01 **Book #** —

Method: LA-514-113 Rev/Mod —

Worklist Comment: Dry DSC for U-107. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
96000085	U-107	1 SAMPLE	S96T000650	0		DSC-02	SOLID	N/A	33.78		Joules/g Dry
96000085	U-107	2 DUP	S96T000650	0		DSC-02	SOLID	33.78	14.18	N/A	Joules/g Dry
96000085	U-107	3 SAMPLE	S96T000653	0		DSC-02	SOLID	N/A	16.77		Joules/g Dry
96000085	U-107	4 DUP	S96T000653	0		DSC-02	SOLID	16.77	36.19	N/A	Joules/g Dry
96000085	U-107	5 SAMPLE	S96T000644	0		DSC-02	SOLID	N/A	271.3		Joules/g Dry
96000085	U-107	6 DUP	S96T000644	0		DSC-02	SOLID	271.3	253.8	N/A	Joules/g Dry
96000085	U-107	7 SAMPLE	S96T000647	0		DSC-02	SOLID	N/A	11.95		Joules/g Dry
96000085	U-107	8 DUP	S96T000647	0		DSC-02	SOLID	11.95	10.21	N/A	Joules/g Dry
96000085	U-107	9 SAMPLE	S96T000683	0		DSC-02	SOLID	N/A	15.30		Joules/g Dry
96000085	U-107	10 DUP	S96T000683	0		DSC-02	SOLID	15.30	14.07	N/A	Joules/g Dry
96000126	U-107	11 SAMPLE	S96T001055	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
96000126	U-107	12 DUP	S96T001055	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
96000126	U-107	13 SAMPLE	S96T001128	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
96000126	U-107	14 DUP	S96T001128	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
96000085	U-107	15 SAMPLE	S96T001143	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
96000085	U-107	16 DUP	S96T001143	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
96000085	U-107	17 TRIPL	S96T001143	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
96000085	U-107	18 SAMPLE	S96T001159	0		DSC-02	SOLID	N/A	11.80		Joules/g Dry

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
05/28/96 06:37

LABCORE Data Entry Template for Worklist# 9022

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
96000085	U-107	19 DUP	S96T001159	0		DSC-02	SOLID	11.80	18.20	N/A	Joules/g Dry

Final page for worklist # 9022

Blandina Valenzuela 5-28-96

Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

U-107

CALCULATED DRY DSC			
SAMPLE NO.	DSC RESULT (J/g)	TGA RESULT (% water)	DRY DSC RESULT
S96T000650	25.5	24.52	33.78
650D	10.7	24.52	14.18
653	13.9	17.11	16.77
653D	30.0	17.11	36.19
644	141.2	47.96	271.3
644D	132.1	47.96	253.8
647	9.6	19.68	11.95
647D	8.2	19.68	10.21
683	12.4	18.95	15.30
683D	11.4	18.95	14.07
~~794~~		5-29-96 BBV	
~~794D~~			
1055	Ø	—	Ø
1055D	Ø	—	Ø
1128	Ø	—	Ø
1128D	Ø	—	Ø
1143	Ø	6.40 *	Ø
1143D	Ø	6.40 *	Ø
1159	9.4	20.33	11.80
1159D	14.5	20.33	18.20
1143T	Ø	—	Ø

* Avg of 3 results

LABCORE Data Entry Template for Worklist# 9023

Analyst: BDV **Instrument:** DSC01 **Book #** —

Method: LA-514-113 Rev/Mod —

Worklist Comment: Dry DSC for U-107. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
96000422	U-107	1 SAMPLE	S96T002131	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
96000422	U-107	2 DUP	S96T002131	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
96000126	U-107	3 SAMPLE	S96T001056	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
96000126	U-107	4 DUP	S96T001056	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
96000126	U-107	5 SAMPLE	S96T001057	0		DSC-02	SOLID	N/A	232.9		Joules/g Dry
96000126	U-107	6 DUP	S96T001057	0		DSC-02	SOLID	232.9	234.5	N/A	Joules/g Dry
96000126	U-107	7 SAMPLE	S96T001058	0		DSC-02	SOLID	N/A	18.11		Joules/g Dry
96000126	U-107	8 DUP	S96T001058	0		DSC-02	SOLID	18.11	125.5	N/A	Joules/g Dry
96000126	U-107	9 TRIPL	S96T001058	0		DSC-02	SOLID	18.11	39.22	N/A	Joules/g Dry
96000126	U-107	10 SAMPLE	S96T001059	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
96000126	U-107	11 DUP	S96T001059	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
96000126	U-107	12 SAMPLE	S96T001064	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
96000126	U-107	13 DUP	S96T001064	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
96000126	U-107	14 SAMPLE	S96T001065	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
96000126	U-107	15 DUP	S96T001065	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
96000126	U-107	16 SAMPLE	S96T001068	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
96000126	U-107	17 DUP	S96T001068	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
96000126	U-107	18 SAMPLE	S96T001070	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 9023

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
96000126	U-107	19 DUP	S96T001070	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

Final page for worklist # 9023

Blandina Valenzuela 5-28-96
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

CALCULATED DRY DSC			
SAMPLE NO.	DSC RESULT (J/g)	TGA RESULT (% water)	DRY DSC RESULT
S96T002131	Ø	—	Ø
2131D	Ø	—	Ø
1056	Ø	—	Ø
1056D	Ø	—	Ø
1057	147.0	36.88	232.9
1057D	148.0	36.88	234.5
1058	11.5	36.51 *	18.11
1058D	79.7	36.51 *	125.5
1059	Ø	21.26	Ø
1059D	Ø	21.26	Ø
1064	Ø	—	Ø
1064D	Ø	—	Ø
1065	Ø	—	Ø
1065D	Ø	—	Ø
1068	Ø	40.82	Ø
1068D	Ø	40.82	Ø
1070	Ø	91.23	Ø
1070D	Ø	91.23	Ø
1058T	24.9	36.51 *	39.22

5-29-96 BOV

* ~~[illegible]~~ Avg of 3 numbers

LABCORE Data Entry Template for Worklist# 9024

Analyst: BDV **Instrument:** DSC01 **Book #** ——

Method: LA-514-113 Rev/Mod ——

Worklist Comment: Dry DSC for U-107. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
96000422	U-107	1	SAMPLE	S96T001867	0		DSC-02	SOLID	N/A	280.2		Joules/g Dry
96000422	U-107	2	DUP	S96T001867	0		DSC-02	SOLID	280.2	209.6	N/A	Joules/g Dry
96000422	U-107	3	SAMPLE	S96T001873	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
96000422	U-107	4	DUP	S96T001873	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
96000422	U-107	5	SAMPLE	S96T001874	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
96000422	U-107	6	DUP	S96T001874	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
96000422	U-107	7	SAMPLE	S96T002132	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
96000422	U-107	8	DUP	S96T002132	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
96000422	U-107	9	SAMPLE	S96T002133	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
96000422	U-107	10	DUP	S96T002133	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

Final page for worklist # 9024

Blandina Valenzuela 5/22/96
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

CALCULATED DRY DSC			
SAMPLE NO.	DSC RESULT (J/g)	TGA RESULT (% water)	DRY DSC RESULT
S96T001867	140.6	49.82	280.2
1867D	105.2	49.82	209.6
1873	Ø	—	Ø
1873D	Ø	—	Ø
1874	Ø	—	Ø
1874D	Ø	—	Ø
2132	Ø	—	Ø
2132D	Ø	—	Ø
2133	Ø	15.92	Ø
2133D	Ø	15.92	Ø

LABCORE Data Entry Template for Worklist# 9028

Analyst: ADP **Instrument:** DSC0 3 **Book #** 12N14B

Method: LA-514-114 Rev/Mod C-1

Worklist Comment: U-107. Run under N2.

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-03	SOLID	28.45	28.94	* N/A	Joules/g
96000422	U-107	2 SAMPLE	S96T002131	0		DSC-03	SOLID	N/A	Ø		Joules/g
96000422	U-107	3 DUP	S96T002131	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 9028

Blandina Valenzuela for AD Purinton 5-21-96 — RHLeb 5-22-96

Analyst Signature Date — Analyst Signature Date

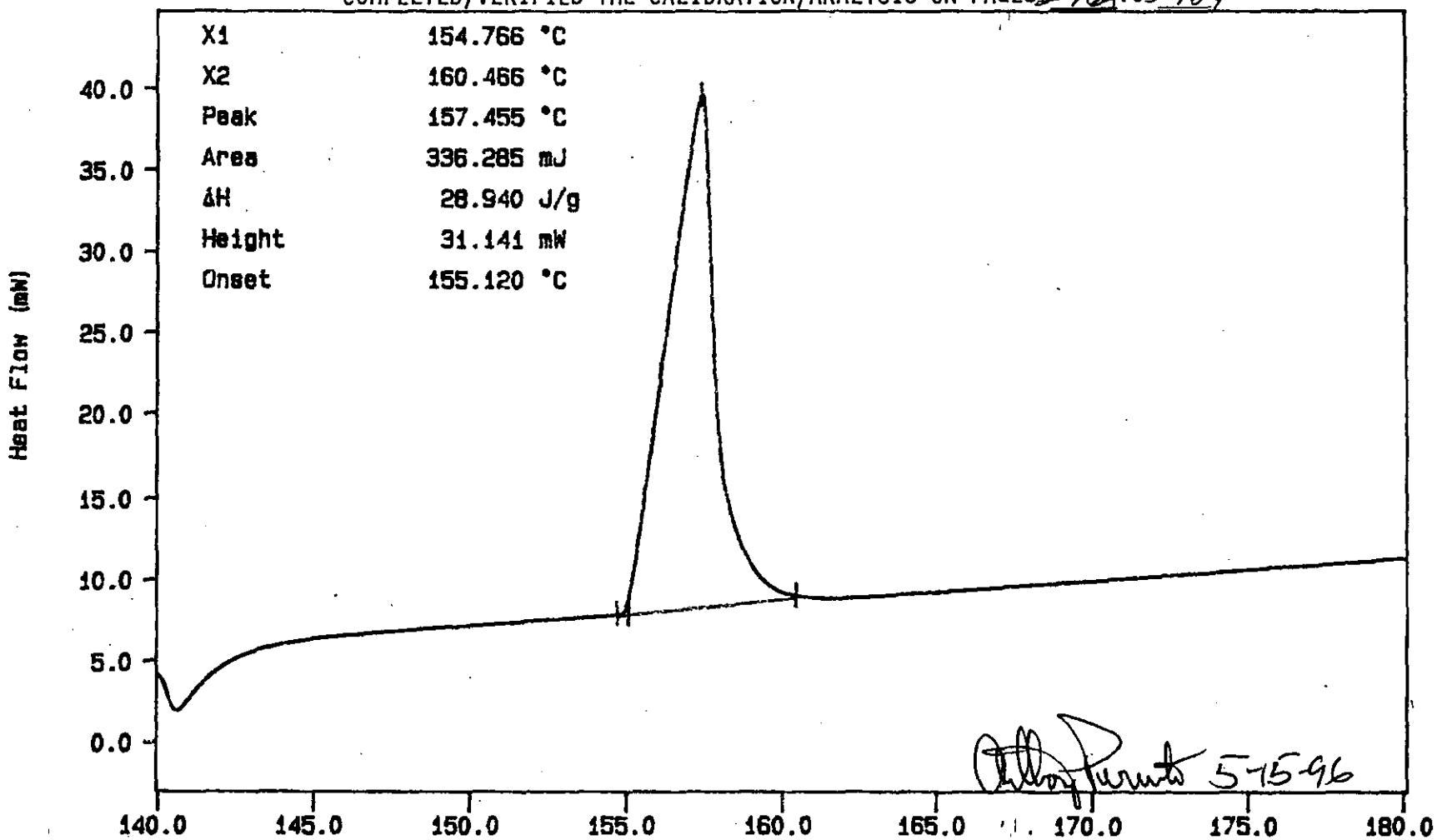
Validated by HAnastas 5-22-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: IND051502 Wed May 15 18:29:24 1996
Sample Weight: 11.620 mg
12N14-B INDIUM AT 10C\MIN

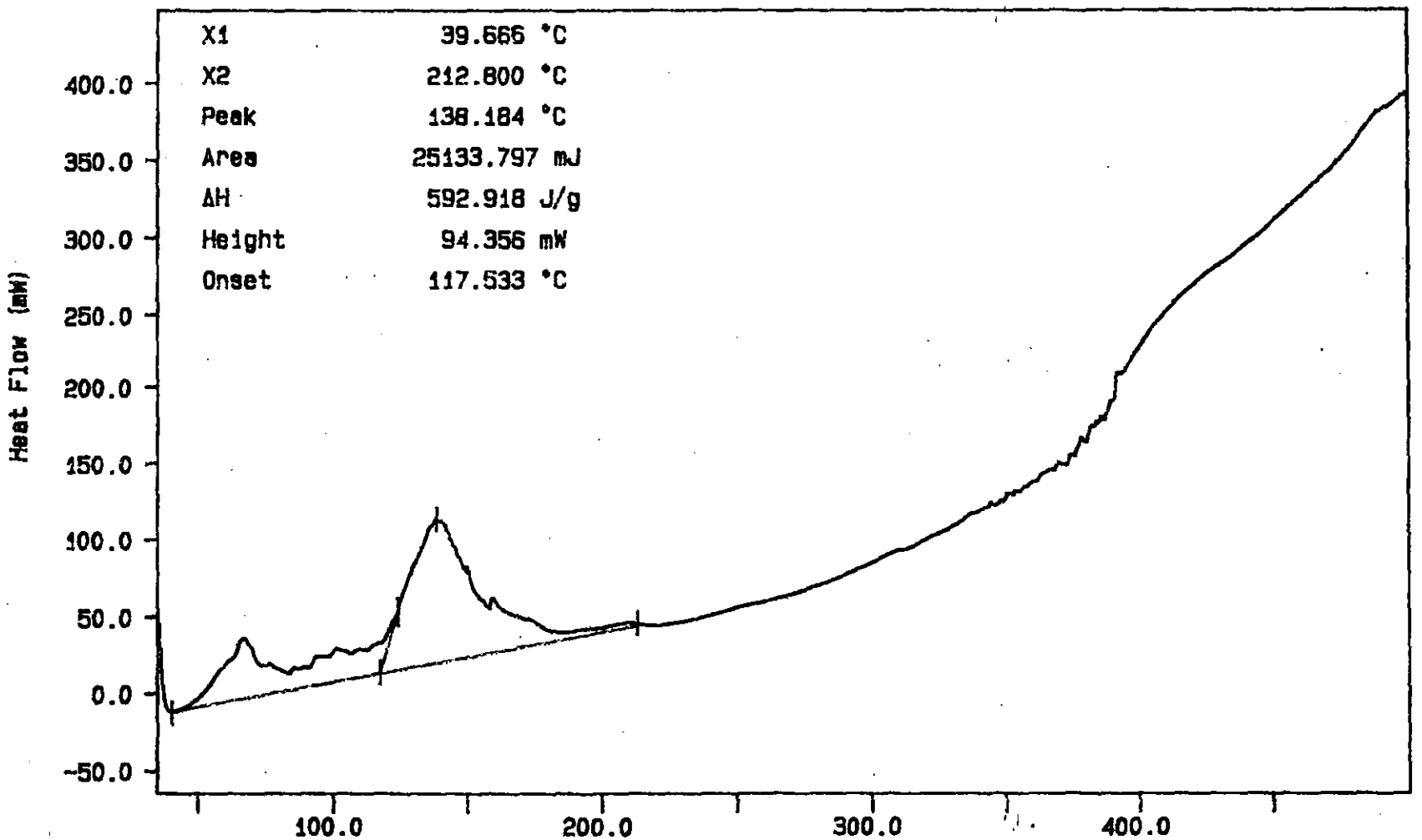
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-183 TO 2-184



N2, EXOTHERM DOWN
TEMP1: 140.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 180.0 C

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Wed May 15 18:32:15 1996

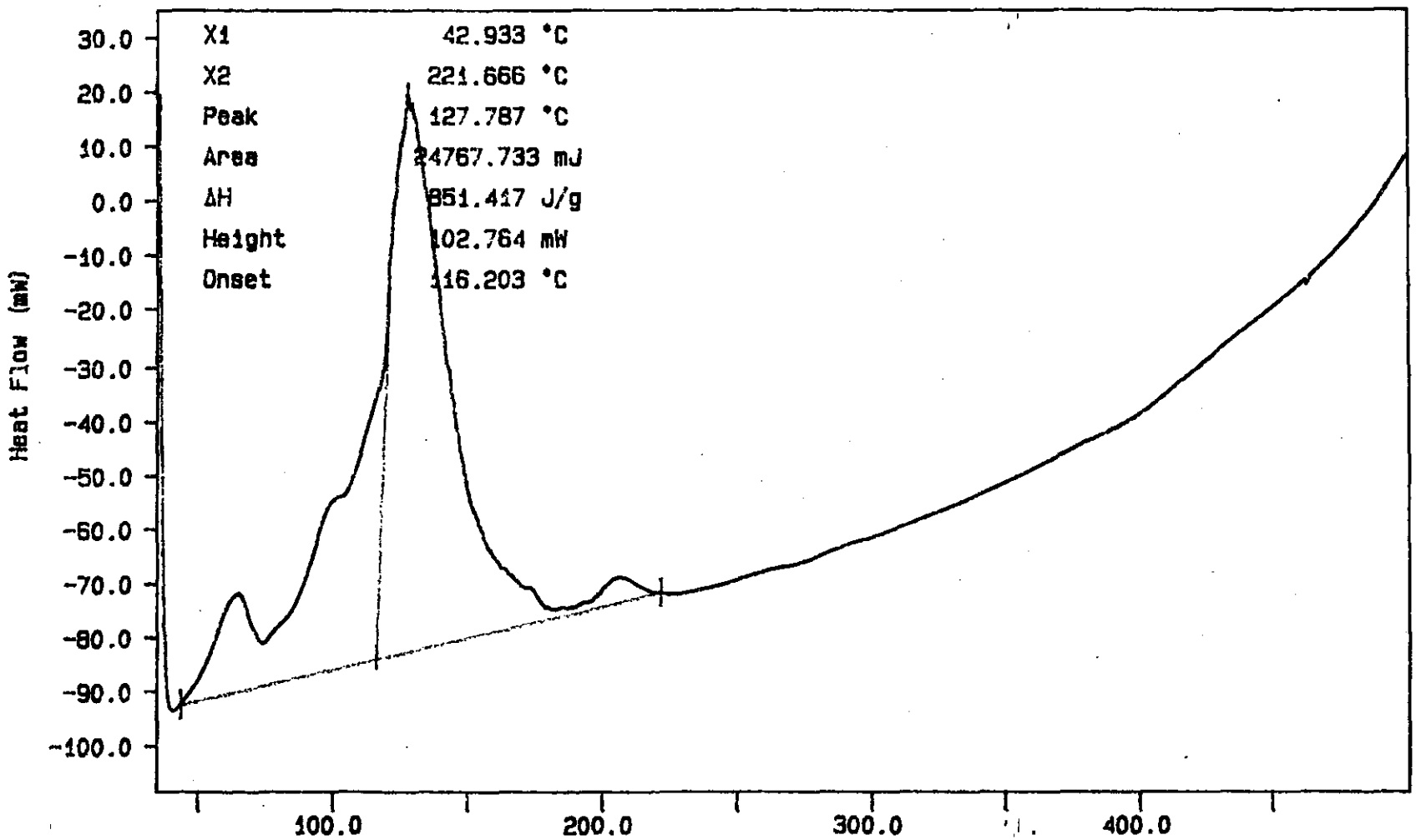
Curve 1: DSC
File info: SAM051505 Wed May 15 21:10:51 1996
Sample Weight: 42.390 mg
S96T002131 SAM



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Wed May 15 21:23:13 1996

Curve 1: DSC
File info: SAM051506 Wed May 15 22:19:47 1996
Sample Weight: 29.090 mg
S96T002131 DUP



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Wed May 15 22:20:25 1996

worklistrpt Version 2.1 05/15/95
05/29/96 07:29

LABCORE Data Entry Template for Worklist# 9283

Analyst: BDV **Instrument:** DSC01 **Book #** ——

Method: LA-514-113 Rev/Mod ——

Worklist Comment: Dry DSC for U-107. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
96000422	U-107	1 SAMPLE	S96T001866	0		DSC-02	LIQUID	N/A	Ø		Joules/g Dry
96000422	U-107	2 DUP	S96T001866	0		DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry

Data entered + verified by **Final page for worklist # 9283**

Blandina Valenzuela

Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
02/26/96 07:17

LABCORE Data Entry Template for Worklist# 5890

Analyst: RCM **Instrument:** TGA0 1 **Book #** 75NUA

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.2	60.43*	N/A	%
96000085	U-107	2	SAMPLE	S96T000650	0		TGA-01	SOLID	N/A	22.19		%
96000085	U-107	3	DUP	S96T000650	0		TGA-01	SOLID	22.19	26.84	N/A	%
96000085	U-107	4	SAMPLE	S96T000653	0		TGA-01	SOLID	N/A	16.78		%
96000085	U-107	5	DUP	S96T000653	0		TGA-01	SOLID	16.78	17.43	N/A	%

Final page for worklist # 5890

RCM 3/6/96
Analyst Signature **Date**

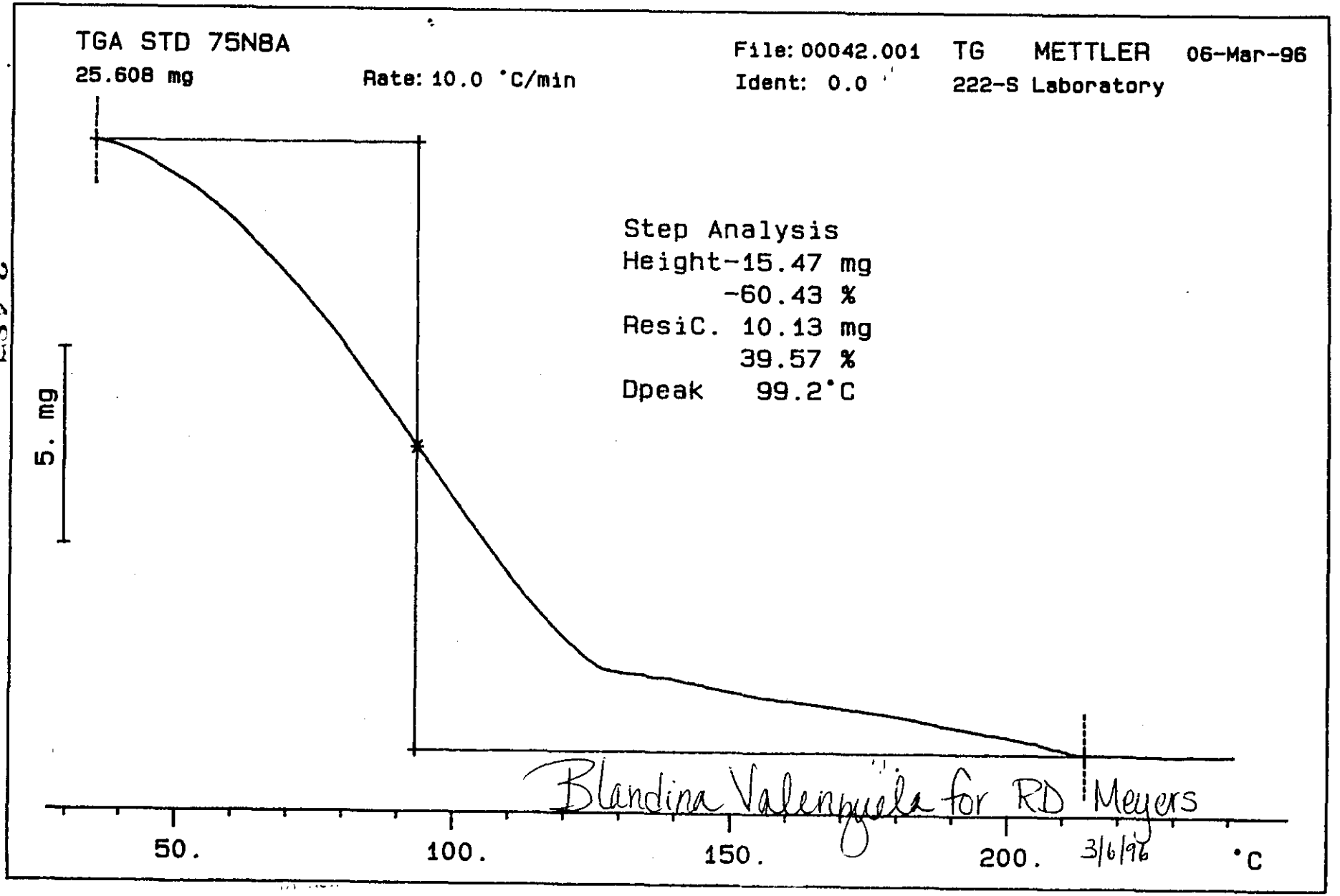
3-6-96
Analyst Signature **Date**

Verified by Blandina Valenzuela 3/7/96

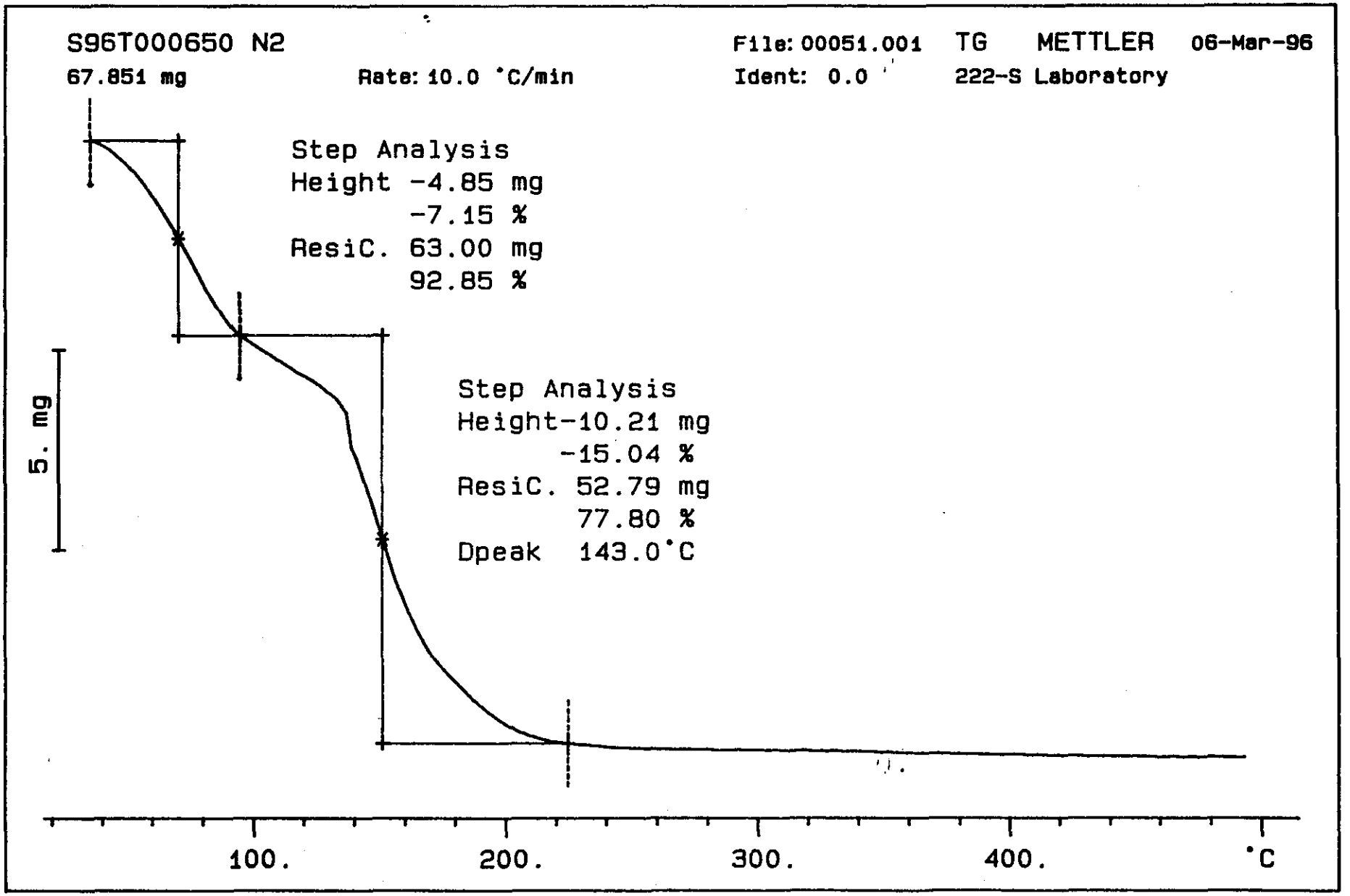
Data Entry Comments: S96T000650 BRV 3/6/96 ~~p~~results are the sum of two BRV 3/6/96 ~~S~~ weight loss steps

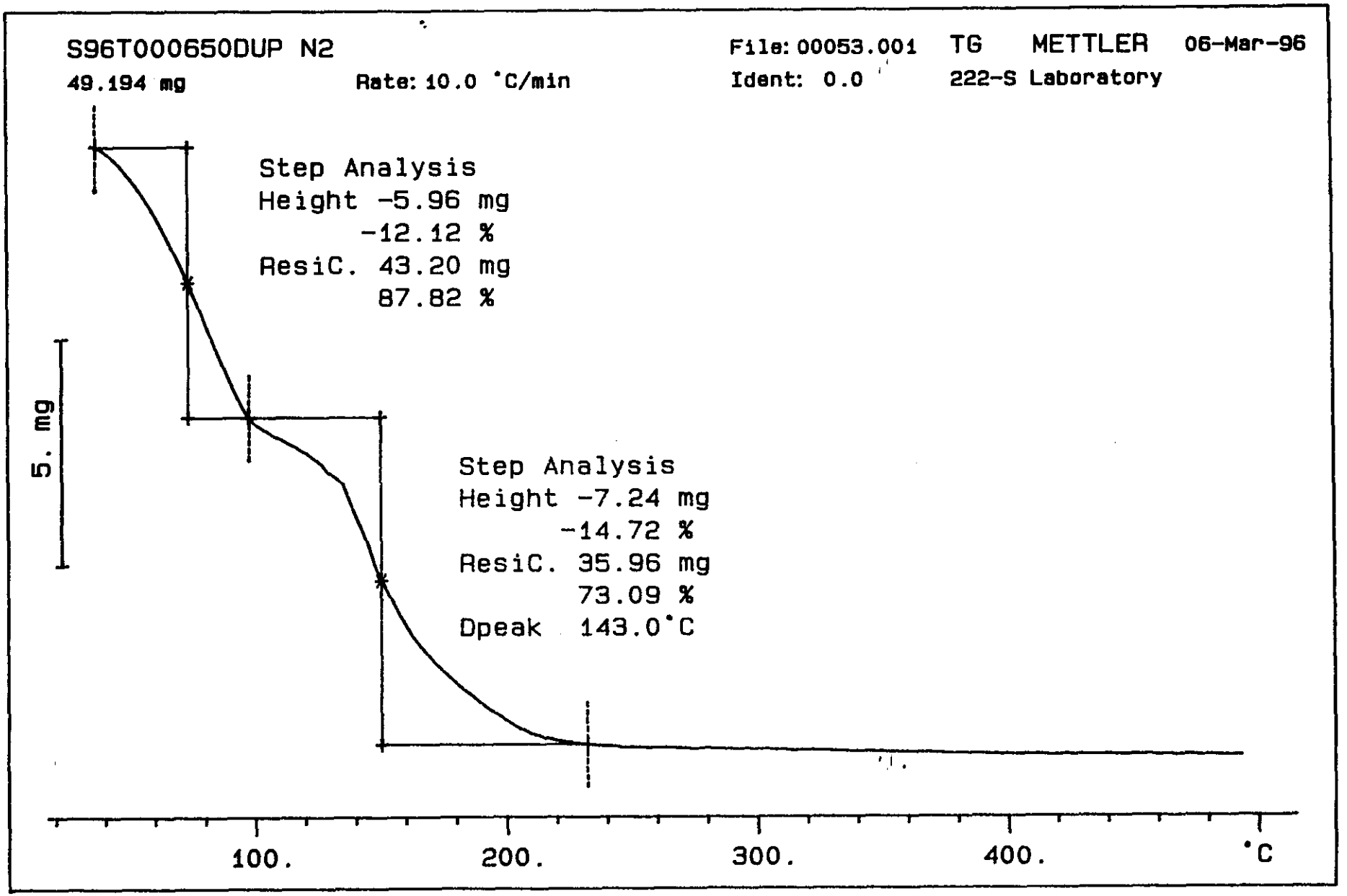
S96T000653 results are the sum of two weight loss steps.

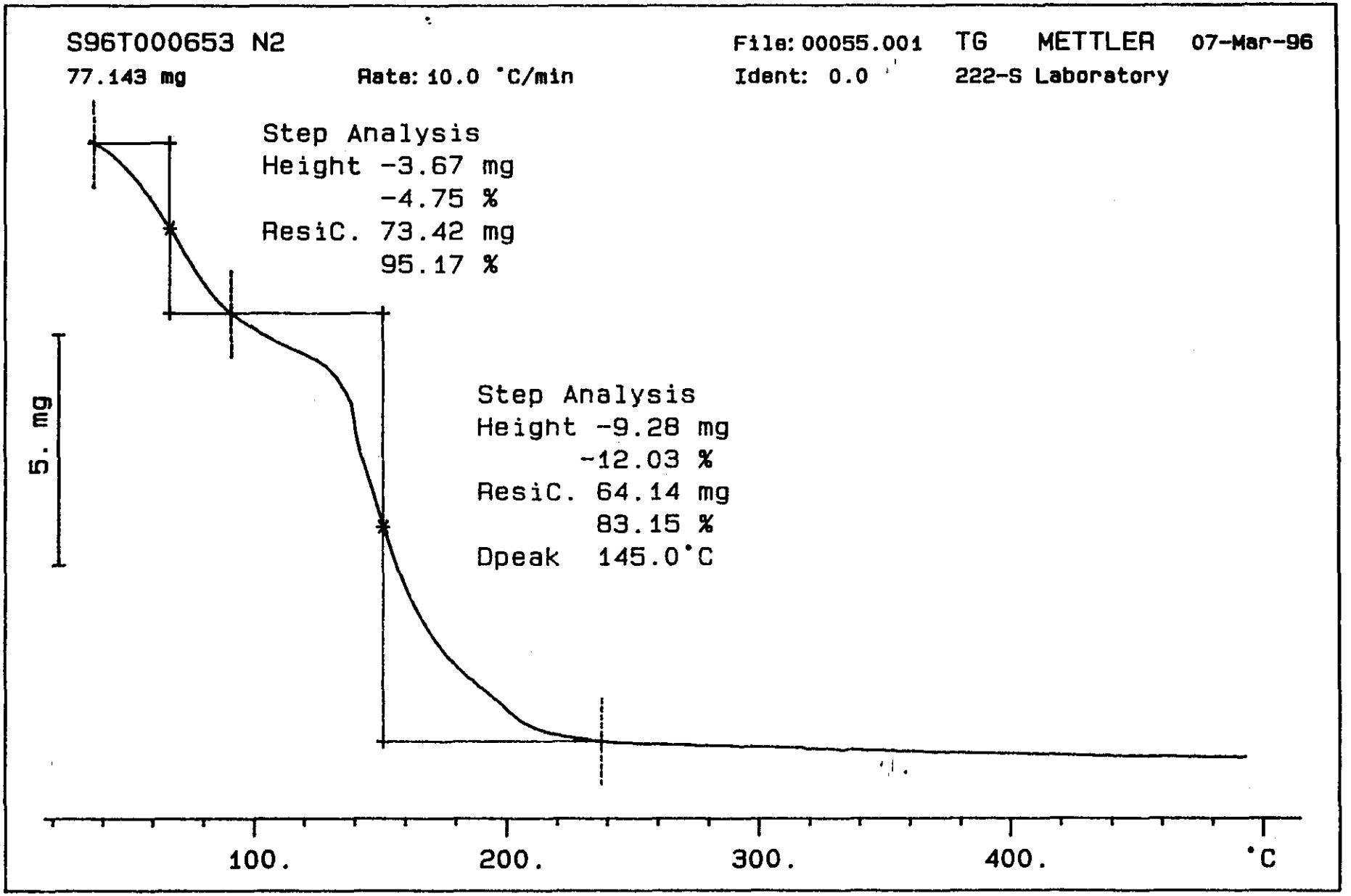
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

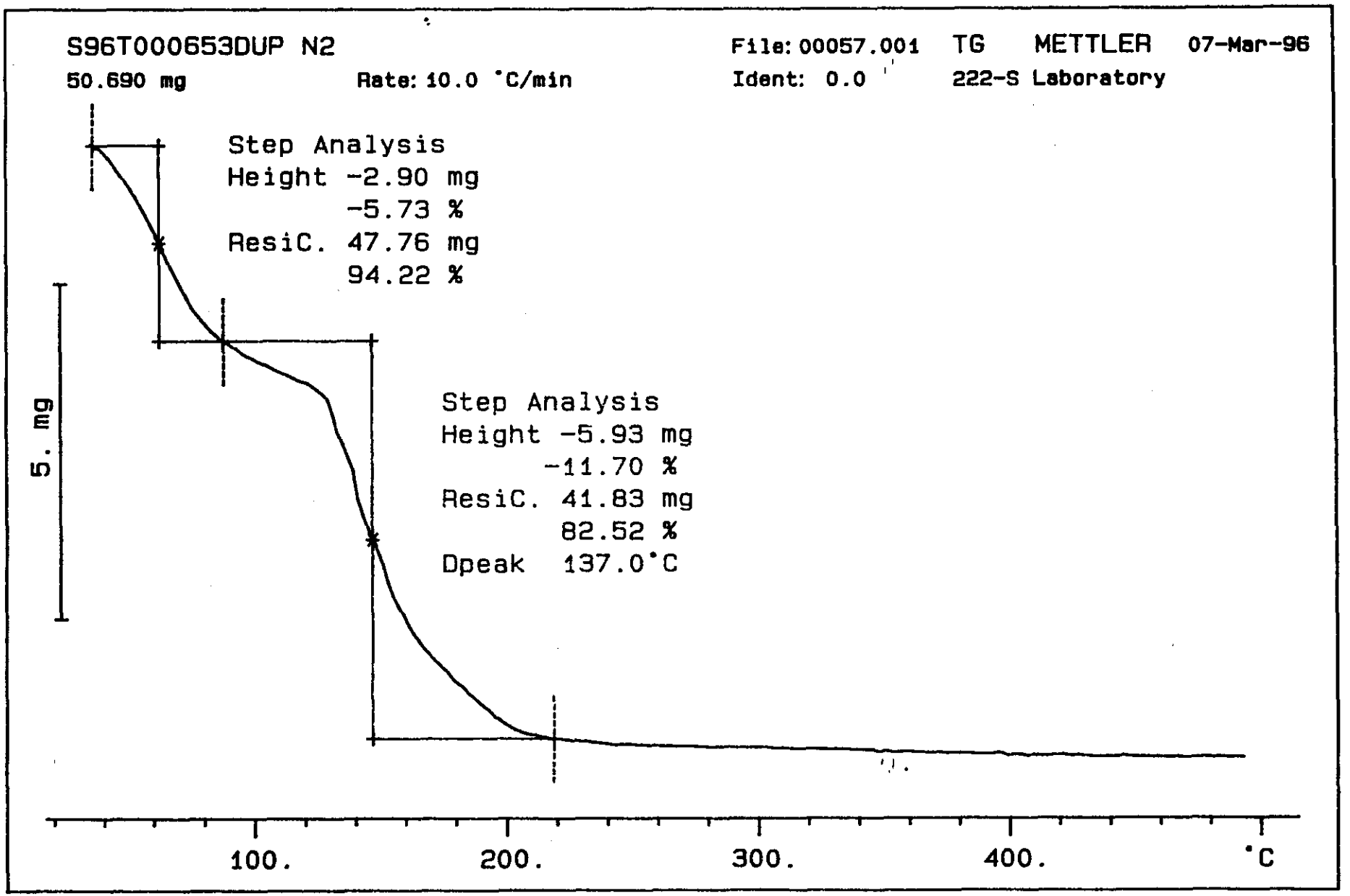


SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-186 TO 2-191


S96T000650 N2
67.851 mg
Rate: 10.0 °C/min
File: 00051.001
TG METTLER 06-Mar-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -4.85 mg
-7.15 %
ResiC. 63.00 mg
92.85 %
Step Analysis
Height-10.21 mg
-15.04 %
ResiC. 52.79 mg
77.80 %
Dpeak 143.0°C
5. mg
100.
200.
300.
400.
°C


S96T000650DUP N2
49.194 mg
Rate: 10.0 °C/min
File: 00053.001
Ident: 0.0
TG
METTLER
06-Mar-96
222-S Laboratory
Step Analysis
Height -5.96 mg
-12.12 %
ResiC. 43.20 mg
87.82 %
Step Analysis
Height -7.24 mg
-14.72 %
ResiC. 35.96 mg
73.09 %
Dpeak 143.0°C
5. mg
100.
200.
300.
400.
°C


S96T000653 N2
77.143 mg
Rate: 10.0 °C/min
File: 00055.001
TG METTLER 07-Mar-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -3.67 mg
-4.75 %
ResiC. 73.42 mg
95.17 %
Step Analysis
Height -9.28 mg
-12.03 %
ResiC. 64.14 mg
83.15 %
Dpeak 145.0°C
5. mg
100.
200.
300.
400.
°C


S96T000653DUP N2
50.690 mg
Rate: 10.0 °C/min
File: 00057.001
TG
METTLER
07-Mar-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -2.90 mg
-5.73 %
ResiC. 47.76 mg
94.22 %
Step Analysis
Height -5.93 mg
-11.70 %
ResiC. 41.83 mg
82.52 %
Dpeak 137.0°C
6mg
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
02/26/96 07:19

LABCORE Data Entry Template for Worklist# 5891

Analyst: RL McCown **Instrument:** TGA0 1 **Book #** 7508A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.2	~~59.32~~ 59.32	3/19/96 N/A	%
96000085	U-107	2	SAMPLE	S96T000644	0		TGA-01	SOLID	N/A	48.57		%
96000085	U-107	3	DUP	S96T000644	0		TGA-01	SOLID	48.57	47.34	N/A	%
96000085	U-107	4	SAMPLE	S96T000647	0		TGA-01	SOLID	N/A	21.1		%
96000085	U-107	5	DUP	S96T000647	0		TGA-01	SOLID	21.1	18.26	N/A	%

Final page for worklist # 5891

RL McCown 3/6/96
Analyst Signature Date

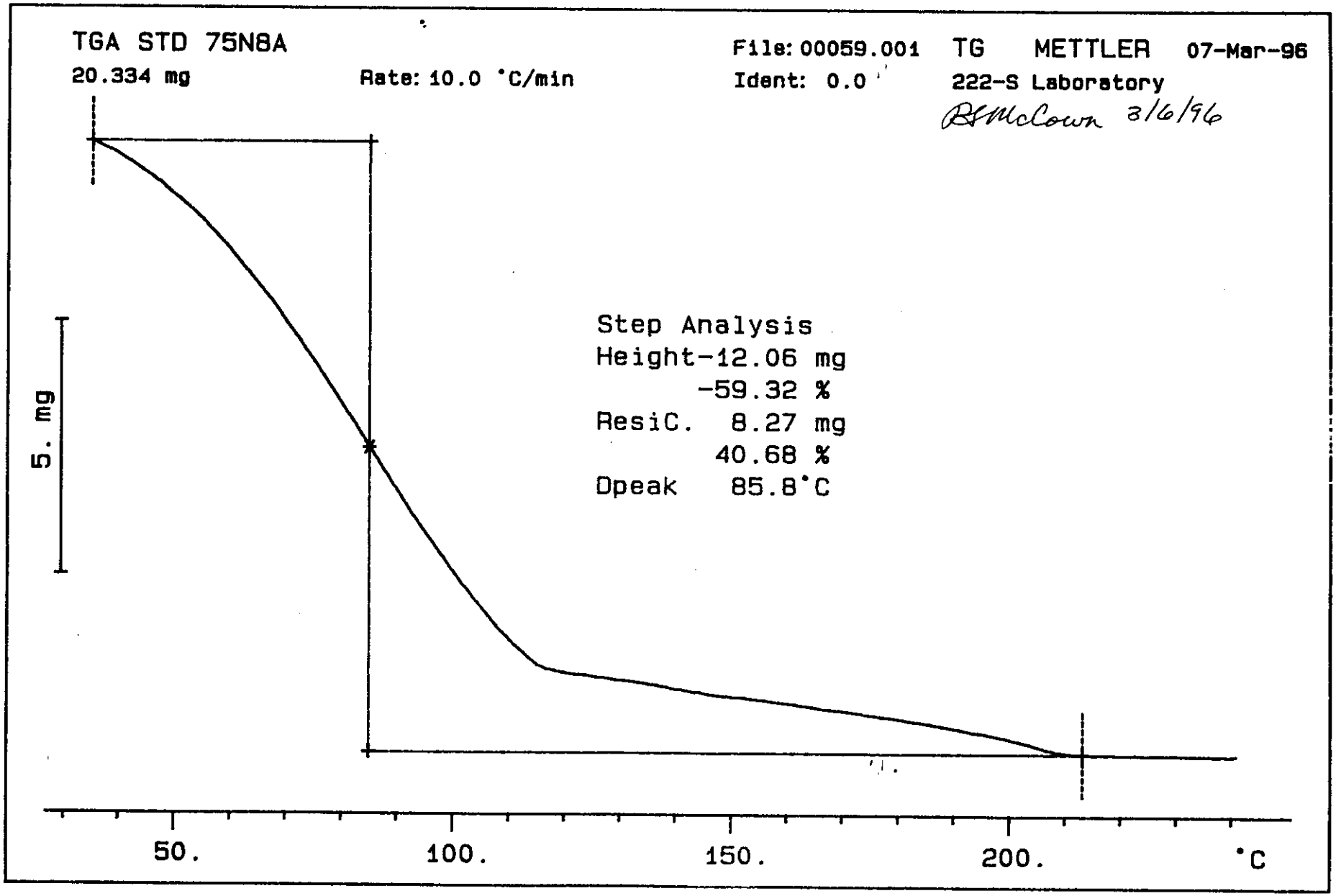
Frank Conlin 3/12/96
Analyst Signature Date

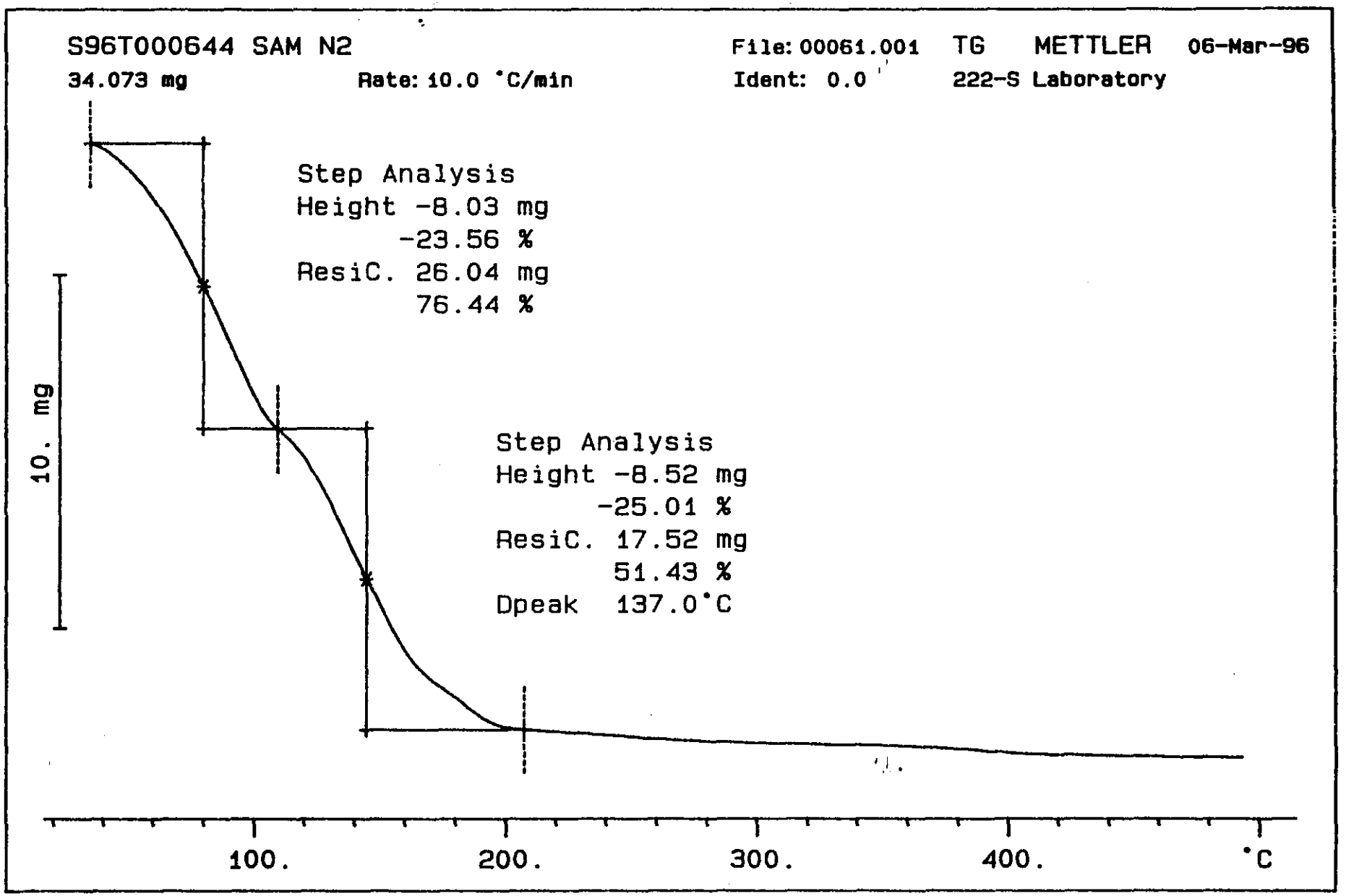
Verified by Blandina Valenzuela 3/18/96

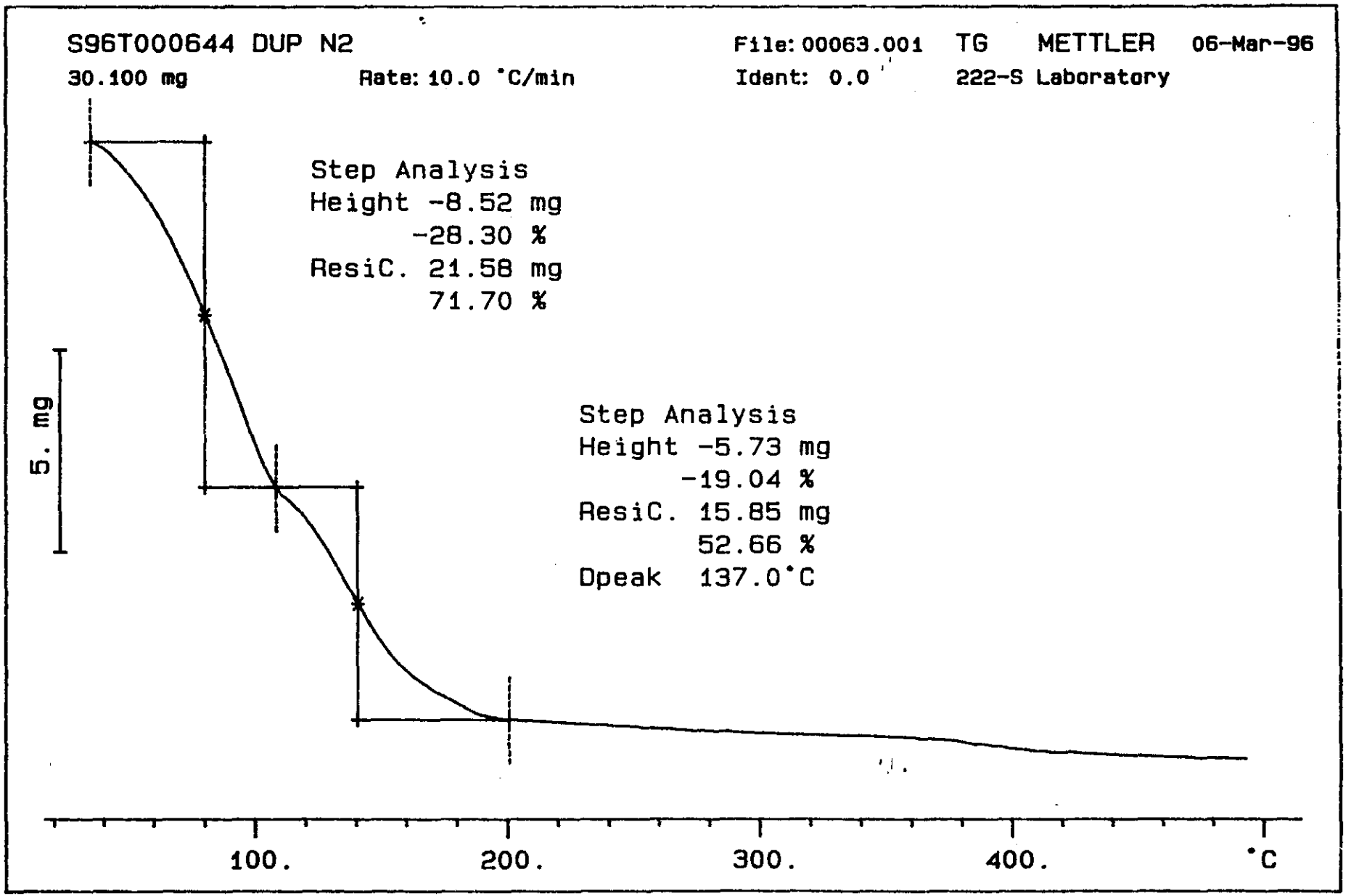
Data Entry Comments: S96T000644 results are the sum of two weight loss steps
S96T000647 results are the sum of two weight loss steps

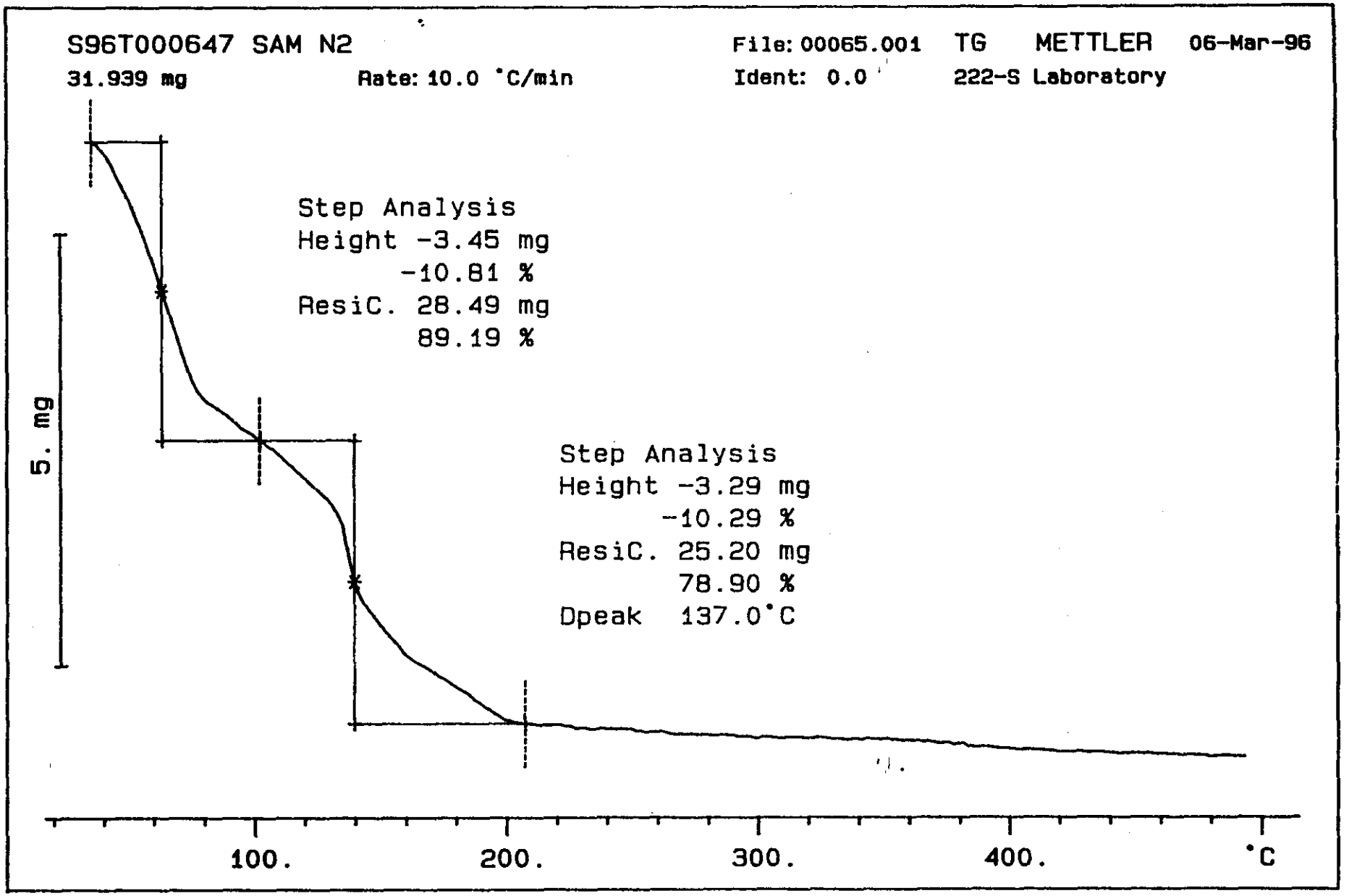
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

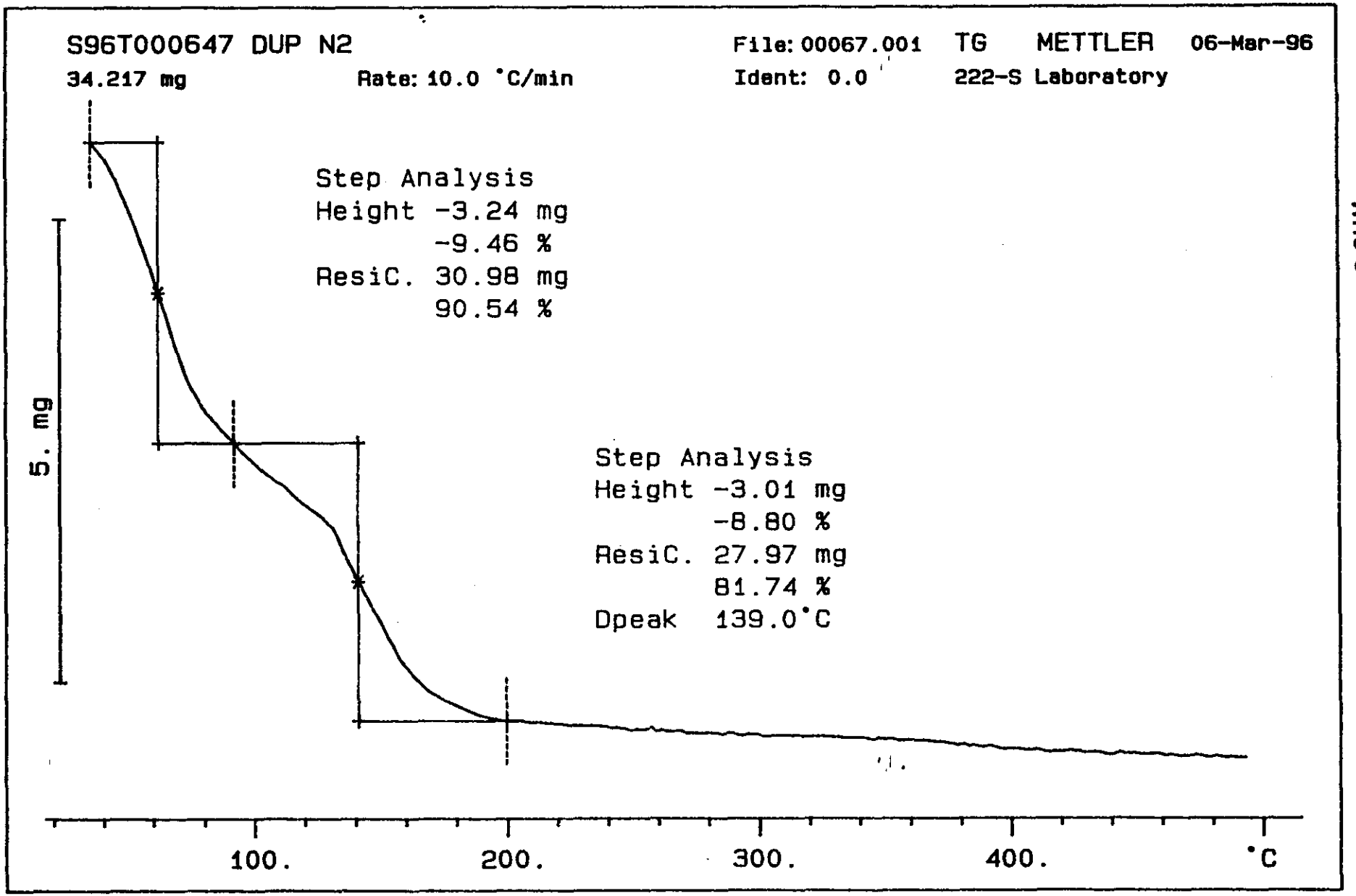
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-192 TO 2-197




S96T000644 SAM N2
File: 00061.001 TG METTLER 06-Mar-96
34.073 mg
Rate: 10.0 °C/min
Ident: 0.0
222-S Laboratory
Step Analysis
Height -8.03 mg
-23.56 %
ResiC. 26.04 mg
76.44 %
Step Analysis
Height -8.52 mg
-25.01 %
ResiC. 17.52 mg
51.43 %
Dpeak 137.0°C
10. mg
100.
200.
300.
400.
°C


S96T000644 DUP N2
30.100 mg
Rate: 10.0 °C/min
File: 00063.001
Ident: 0.0
TG
METTLER
06-Mar-96
222-S Laboratory
Step Analysis
Height -8.52 mg
-28.30 %
ResiC. 21.58 mg
71.70 %
Step Analysis
Height -5.73 mg
-19.04 %
ResiC. 15.85 mg
52.66 %
Dpeak 137.0°C
5. mg
100.
200.
300.
400.
°C


S96T000647 SAM N2
31.939 mg
Rate: 10.0 °C/min
File: 00065.001
Ident: 0.0
TG
METTLER
06-Mar-96
222-S Laboratory
Step Analysis
Height -3.45 mg
-10.81 %
ResiC. 28.49 mg
89.19 %
Step Analysis
Height -3.29 mg
-10.29 %
ResiC. 25.20 mg
78.90 %
Dpeak 137.0°C
5. mg
100.
200.
300.
400.
°C


S96T000647 DUP N2
34.217 mg
Rate: 10.0 °C/min
File: 00067.001
Ident: 0.0
TG
METTLER
06-Mar-96
222-S Laboratory
Step Analysis
Height -3.24 mg
-9.46 %
ResiC. 30.98 mg
90.54 %
Step Analysis
Height -3.01 mg
-8.80 %
ResiC. 27.97 mg
81.74 %
Dpeak 139.0°C
5. mg
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
02/29/96 13:36

LABCORE Data Entry Template for Worklist# 6027

Analyst: SMF **Instrument:** TGA0 1 **Book #** 7508A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 TGA-01 RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.2	60.58*	N/A	%
96000085	U-107	2	SAMPLE	S96T000683	0		TGA-01	SOLID	N/A	18.62		%
96000085	U-107	3	DUP	S96T000683	0		TGA-01	SOLID	18.52	19.37	N/A	%

Final page for worklist # 6027

Susie M. Fullton 3-5-96
Analyst Signature **Date**

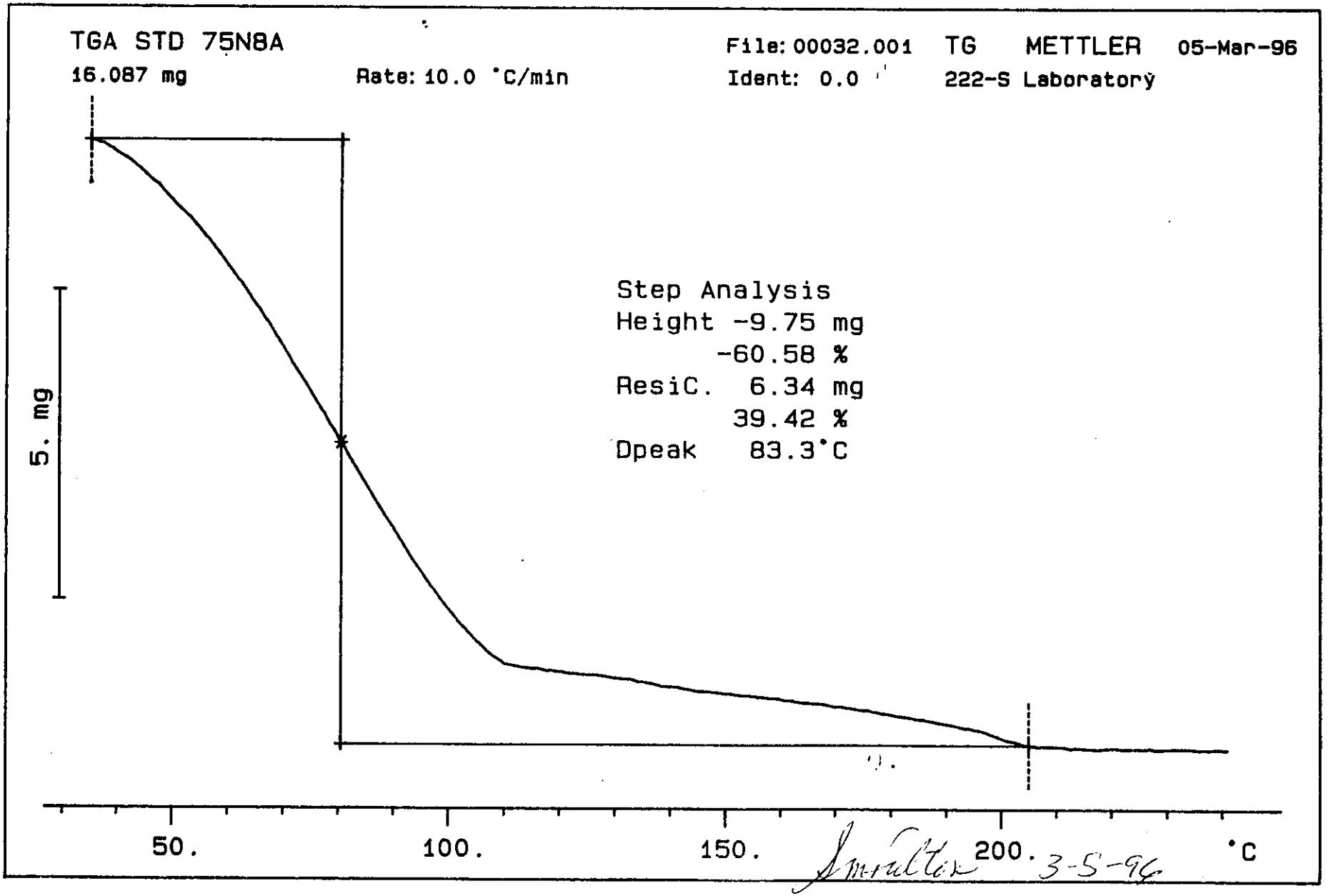
RHH 3/7/96
Analyst Signature **Date**

Verified by Blandina Valenzuela 3/7/96

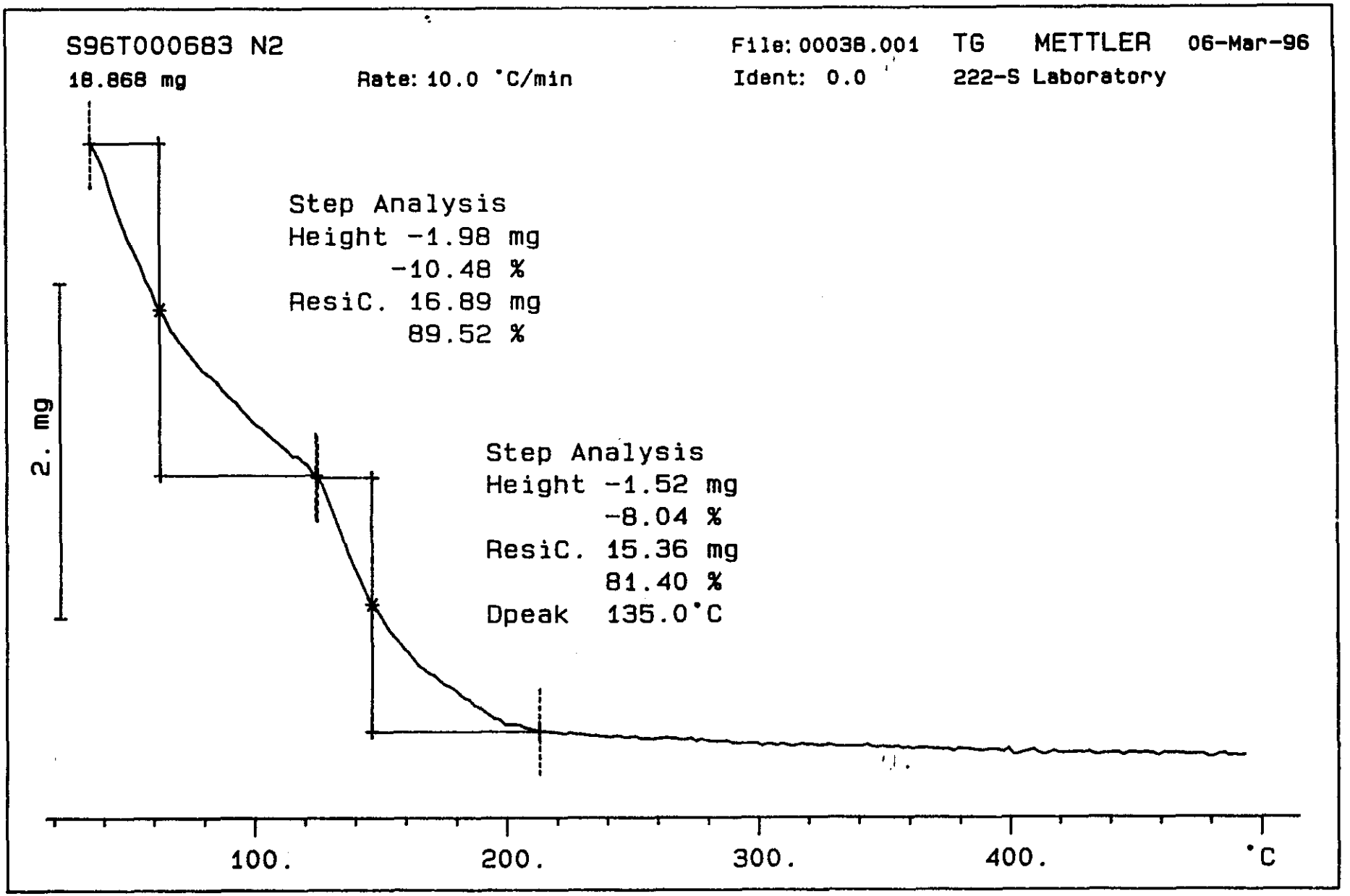
Data Entry Comments: The results given are the sum of two weight loss steps.

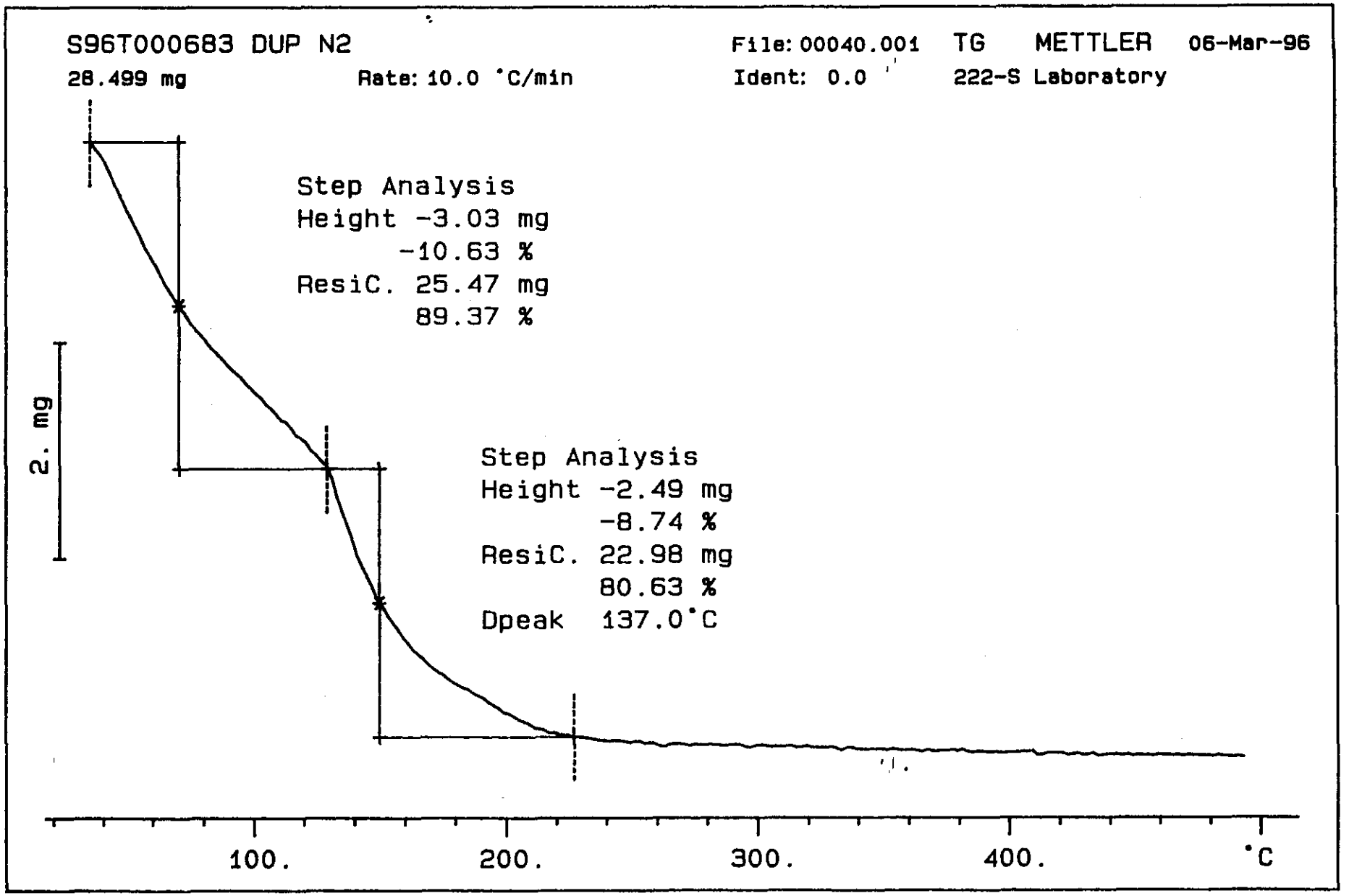
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2199 TO 2201



3-5-96


S96T000683 N2
18.868 mg
Rate: 10.0 °C/min
File: 00038.001
Ident: 0.0
TG
METTLER
06-Mar-96
222-S Laboratory
Step Analysis
Height -1.98 mg
-10.48 %
ResiC. 16.89 mg
89.52 %
Step Analysis
Height -1.52 mg
-8.04 %
ResiC. 15.36 mg
81.40 %
Dpeak 135.0°C
2. mg
100.
200.
300.
400.
°C


S96T000683 DUP N2
28.499 mg
Rate: 10.0 °C/min
File: 00040.001
Ident: 0.0
TG
METTLER
06-Mar-96
222-S Laboratory
Step Analysis
Height -3.03 mg
-10.63 %
ResiC. 25.47 mg
89.37 %
Step Analysis
Height -2.49 mg
-8.74 %
ResiC. 22.98 mg
80.63 %
Dpeak 137.0°C
2. mg
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
04/16/96 15:44

LABCORE Data Entry Template for Worklist# 6499

Analyst: SMF **Instrument:** TGA0 3 **Book #** 82N8A

Method: LA-514-114 Rev/Mod C-1

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-03	SOLID	59.2	59.37 *	N/A	%
96000126	U-107	2 SAMPLE	S96T001055	0		TGA-03	SOLID	N/A	6.94 %	4/16/96 BDV	%
96000126	U-107	3 DUP	S96T001055	0		TGA-03	SOLID	6.94	7.60	N/A	%
96000126	U-107	4 SAMPLE	S96T001056	0		TGA-03	SOLID	N/A	13.12	-	%
96000126	U-107	5 DUP	S96T001056	0		TGA-03	SOLID	13.12	12.26	N/A	%

Final page for worklist # 6499

See attached for signatures

Analyst Signature **Date** 4/16/96 BDV

RHA 04/19/96

Analyst Signature **Date**

Verified by H Anastos 4-22-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
03/14/96 13:29

LABCORE Data Entry Template for Worklist# 6499

Analyst: SMF **Instrument:** TGA0 _____ **Book #** 82N8A

Method: LA-560-112 Rev/Mod _____

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID			N/A	%
96000126	U-107	2	SAMPLE	S96T001055	0		TGA-01	SOLID	N/A			%
96000126	U-107	3	DUP	S96T001055	0		TGA-01	SOLID			N/A	%
96000126	U-107	4	SAMPLE	S96T001056	0		TGA-01	SOLID	N/A			%
96000126	U-107	5	DUP	S96T001056	0		TGA-01	SOLID			N/A	%

Final page for worklist # 6499

Susie M. Dulton 4-15-96

Analyst Signature **Date** **Analyst Signature** **Date**

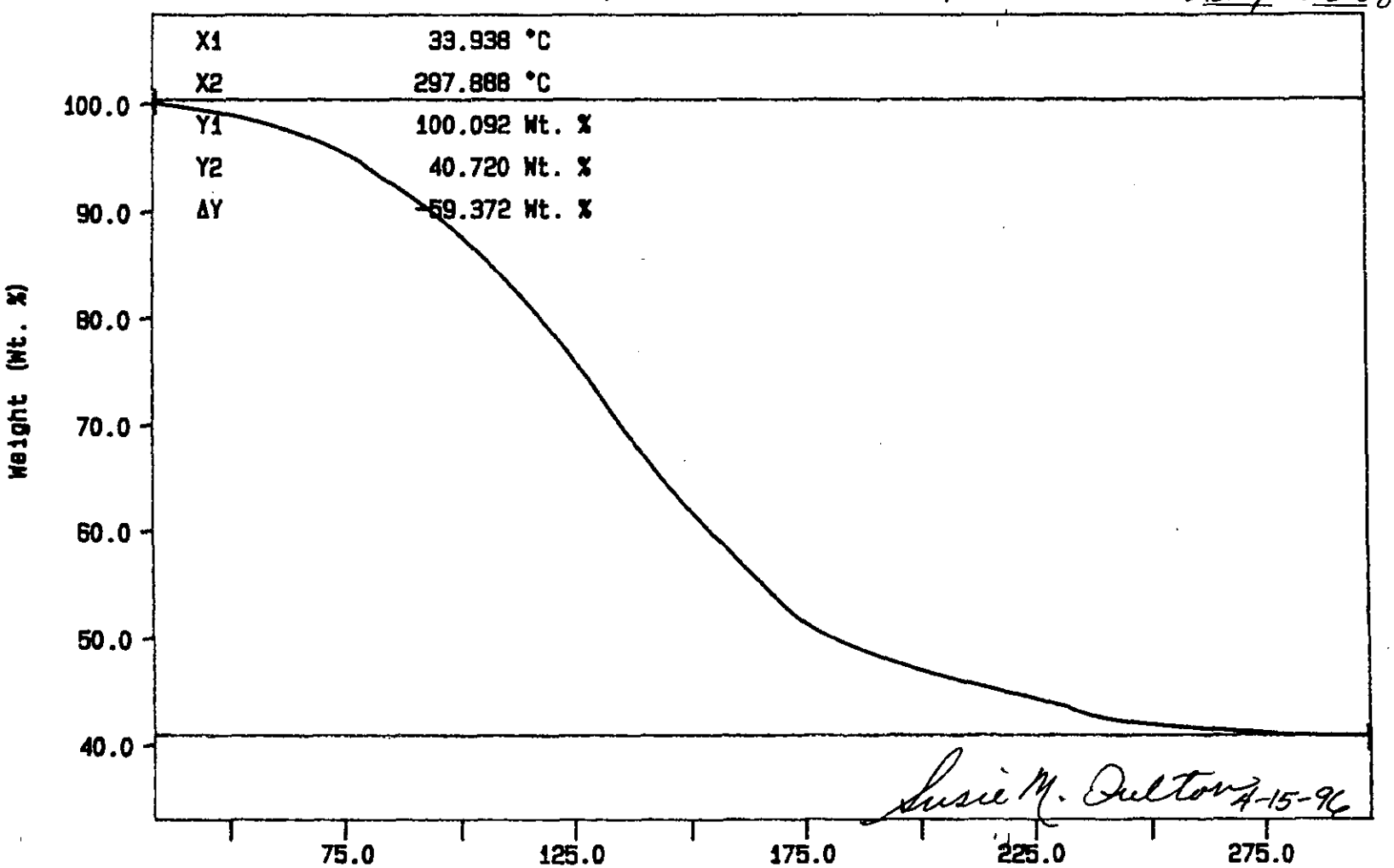
Other instrument was used 4/16/96 BDV

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: TGA
File info: TER041501 Mon Apr 15 06:12:10 1996
Sample Weight: 21.445 mg
TGA STD 82N8-A

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2224 TO 2228



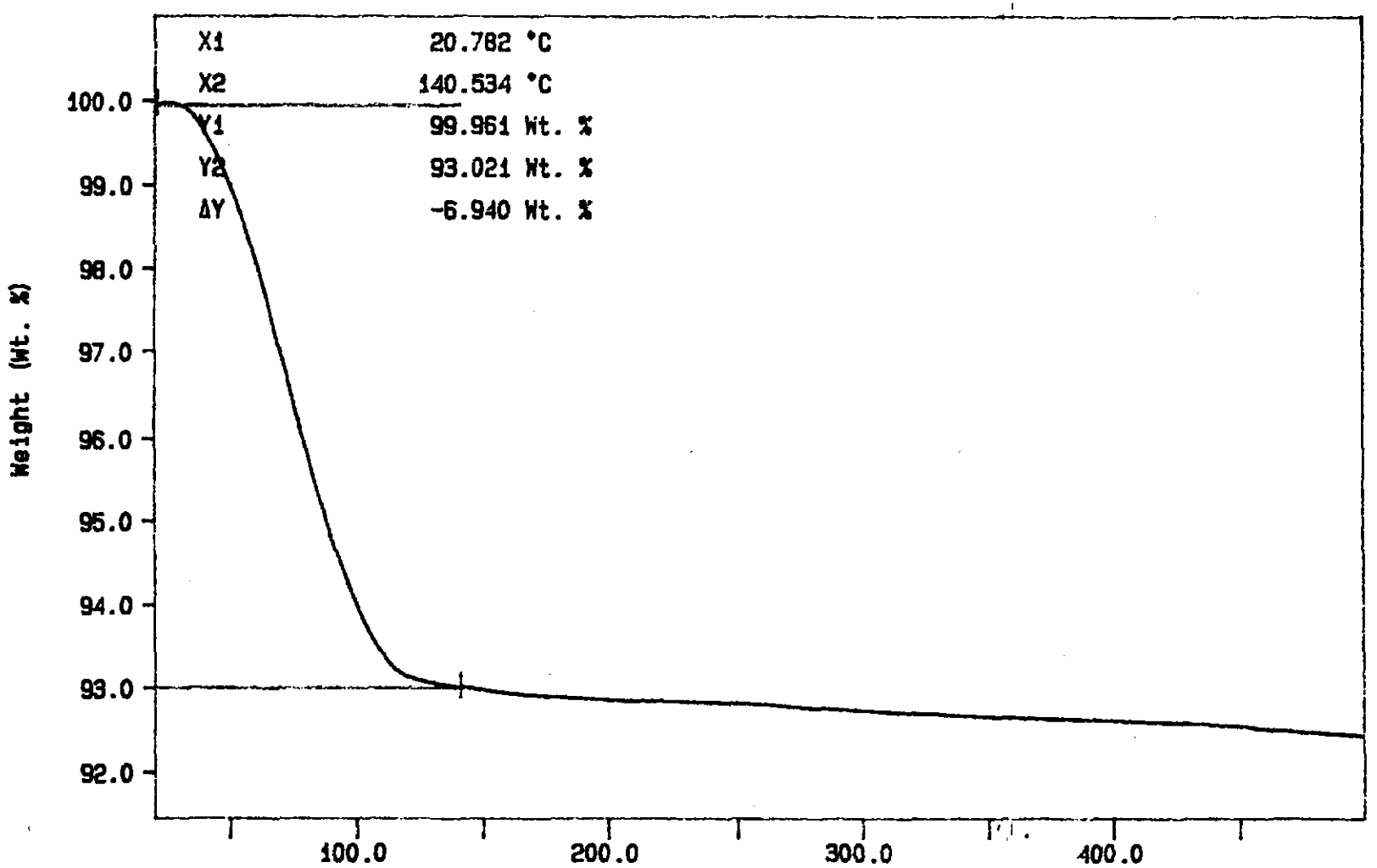
Susie M. Fulton 4-15-96

N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Apr 15 06:18:26 1996

2-224

Curve 1: TGA
File info: SAM041504 Mon Apr 15 07:35:48 1996
Sample Weight: 12.179 mg
S96T001055

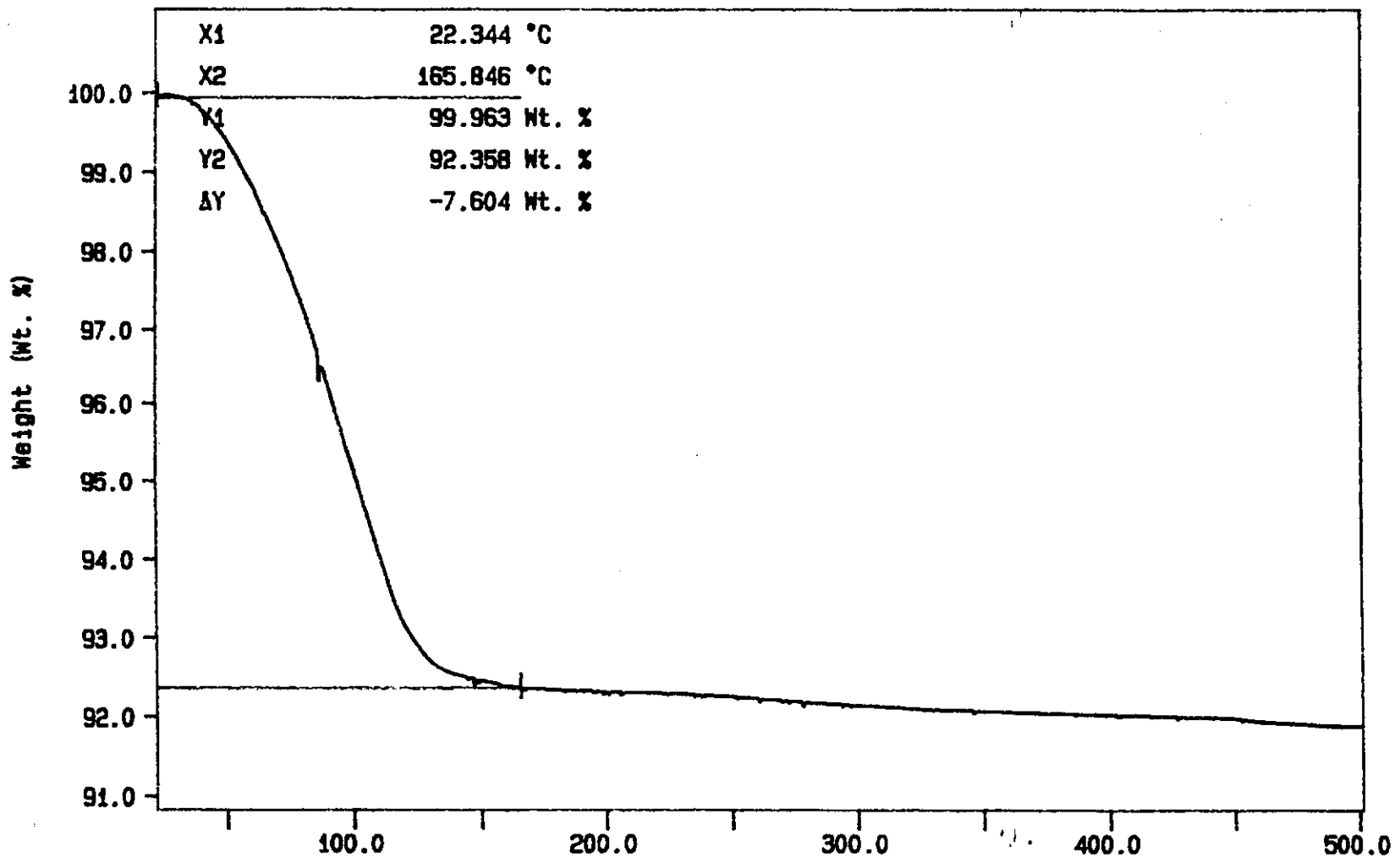


10C/MIN N2
TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Apr 15 08:34:51 1996

2-205

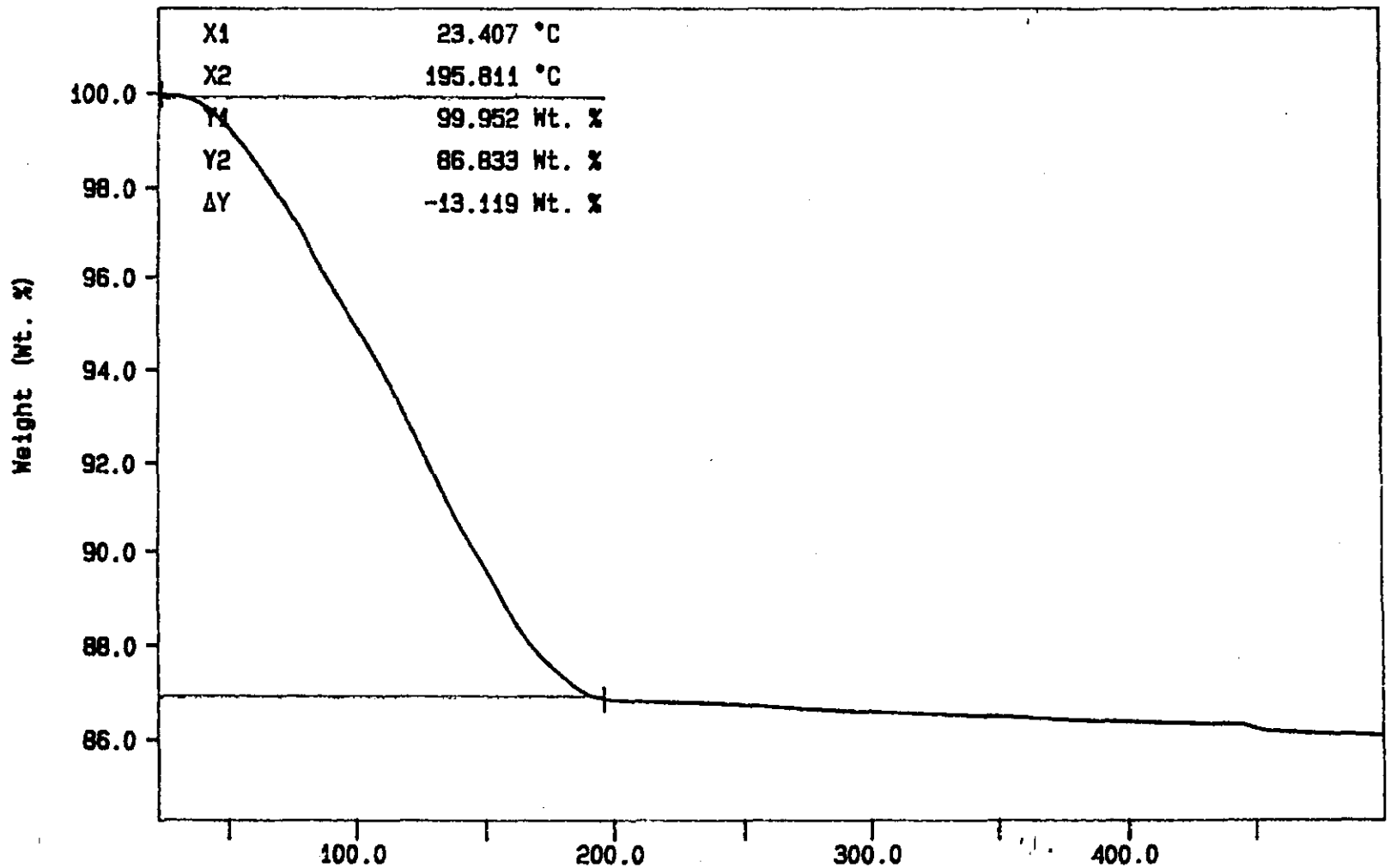
Curve 1: TGA
File info: SAM041505 Mon Apr 15 09:27:07 1996
Sample Weight: 21.256 mg
S96T001055 DUP



10C/MIN N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Apr 15 12:26:16 1996

Curve 1: TGA
File info: SAM041506 Mon Apr 15 13:21:51 1996
Sample Weight: 22.822 mg
S96T001056

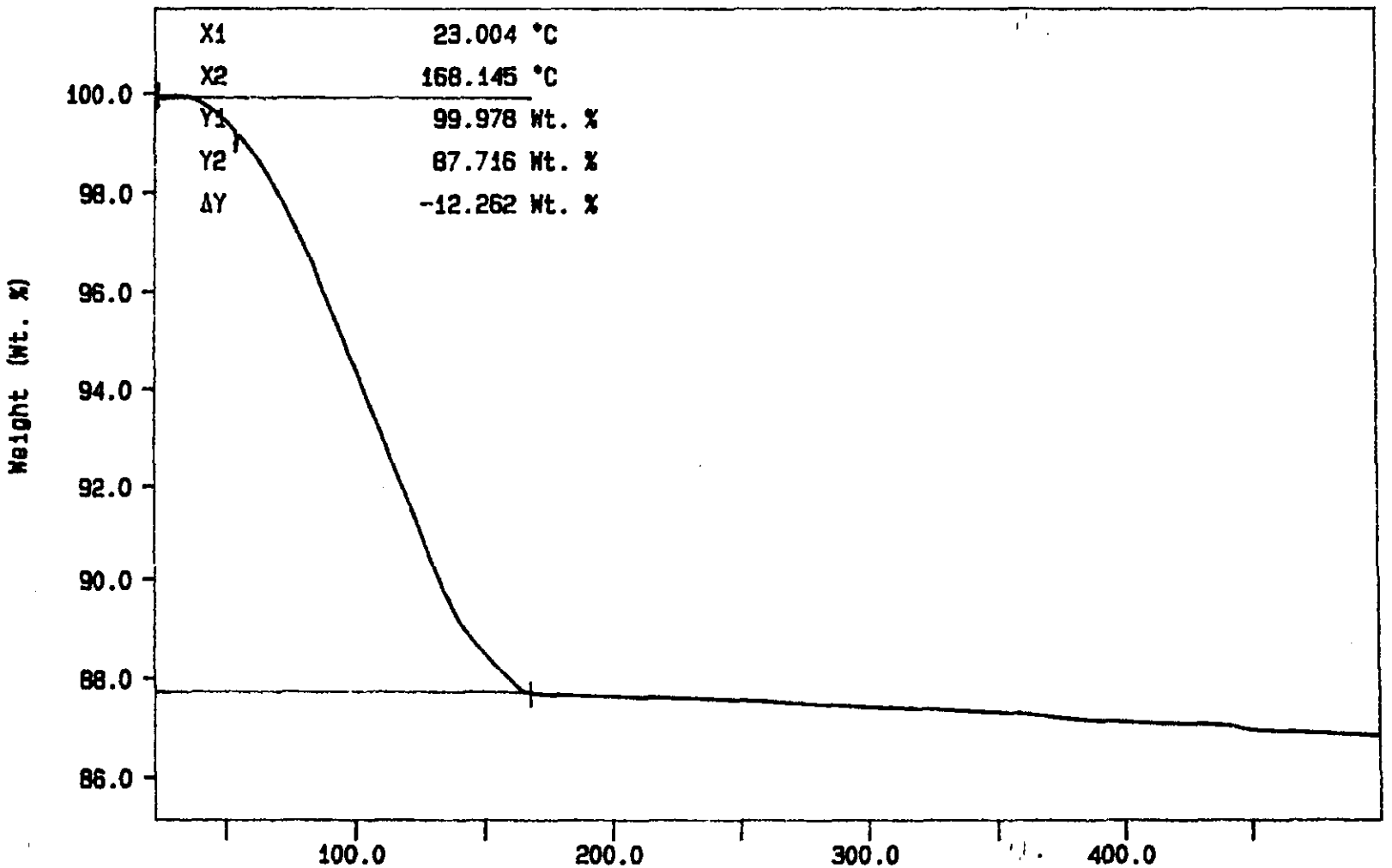


10C/MIN N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 800.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Apr 15 13:37:22 1996

04/18/96 10:58 ☎509 372 2929 RESTINGHOUSE

Curve 1: TGA
File info: SAM041507 Mon Apr 15 14:38:55 1996
Sample Weight: 17.932 mg
S96T001056 DUP



10C/MIN N2
TEMP1: 30.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Apr 15 15:30:49 1996

2-208

worklistrpt Version 2.1 05/15/95
04/17/96 11:54

LABCORE Data Entry Template for Worklist# 6500

Analyst: JDS **Instrument:** TGA0 1 **Book #** 82N8A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.2	59.18*	N/A	%
96000126	U-107	2	SAMPLE	S96T001057	0		TGA-01	SOLID	N/A	34.53		%
96000126	U-107	3	DUP	S96T001057	0		TGA-01	SOLID	34.53	39.23	N/A	%
96000126	U-107	4	SAMPLE	S96T001058	0		TGA-01	SOLID	N/A	44.21		%
96000126	U-107	5	DUP	S96T001058	0		TGA-01	SOLID	44.21	28.19	N/A	%
96000126	U-107	6	TRIPL	S96T001058	0		TGA-01	SOLID	44.21	37.14	N/A	%

Final page for worklist # 6500

See attached for signatures

Analyst Signature **Date** 4/17/96 BDV **Analyst Signature** **Date**

Verified by Blandina Valenzuela 4-22-96

Data Entry Comments: S96T001057 produced an additional weight loss step of 1.67%. S96T001058 results are the sum of two weight loss steps. A trip was run because of the difference btwn thermograms.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-184, REV. 1

worklistrpt Version 2.1 05/15/95
03/14/96 13:31

LABCORE Data Entry Template for Worklist# 6500

Analyst: JCS **Instrument:** TGA0 **Book #** 82N8A

Method: LA-560-112 Rev/Mod

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID			N/A	%
96000126	U-107	2	SAMPLE	S96T001057	0		TGA-01	SOLID	N/A			%
96000126	U-107	3	DUP	S96T001057	0		TGA-01	SOLID			N/A	%
96000126	U-107	4	SAMPLE	S96T001058	0		TGA-01	SOLID	N/A			%
96000126	U-107	5	DUP	S96T001058	0		TGA-01	SOLID			N/A	%

Final page for worklist # 6500

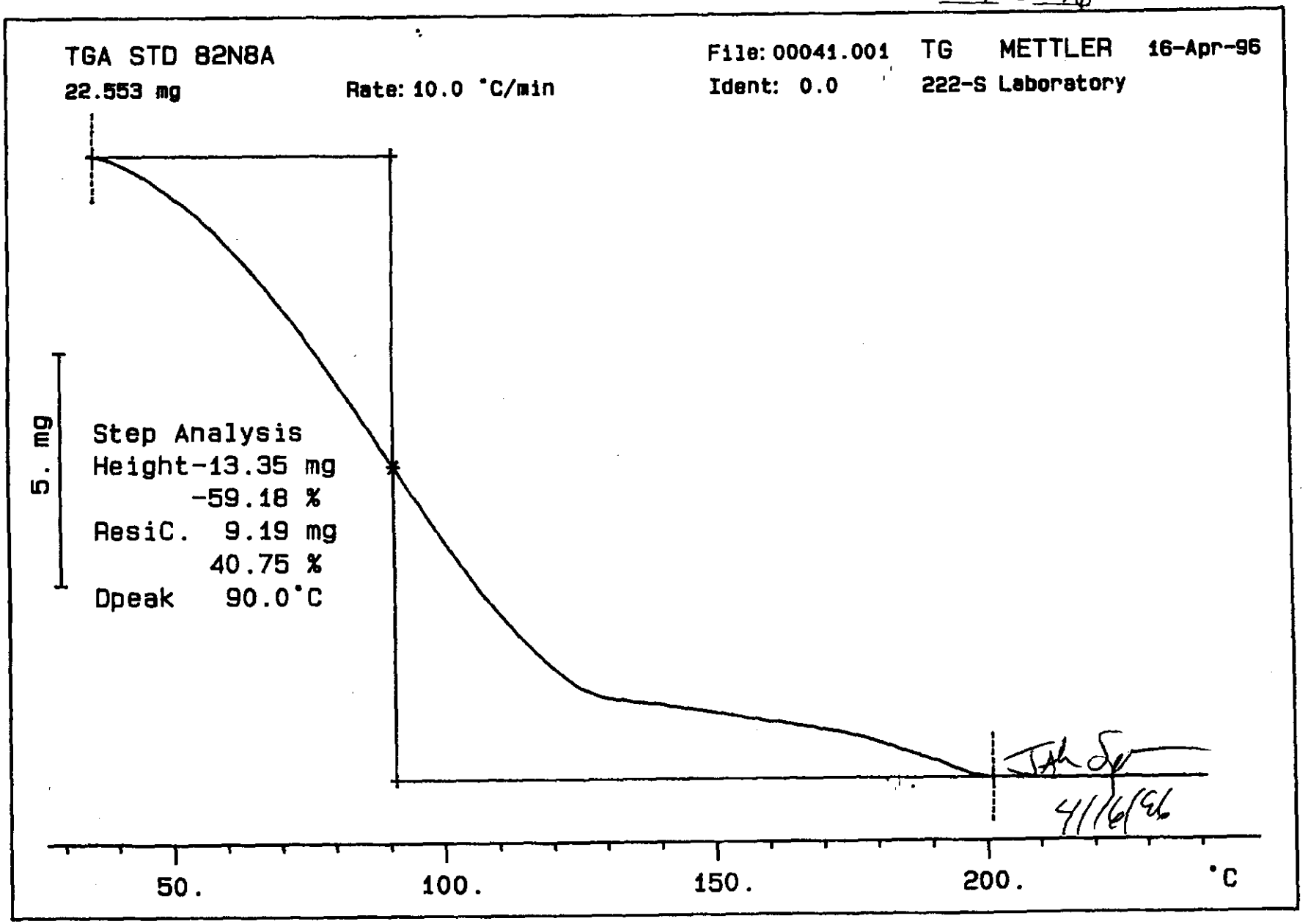
JCS 4/17/96
Analyst Signature **Date**

4/18/96
Analyst Signature **Date**

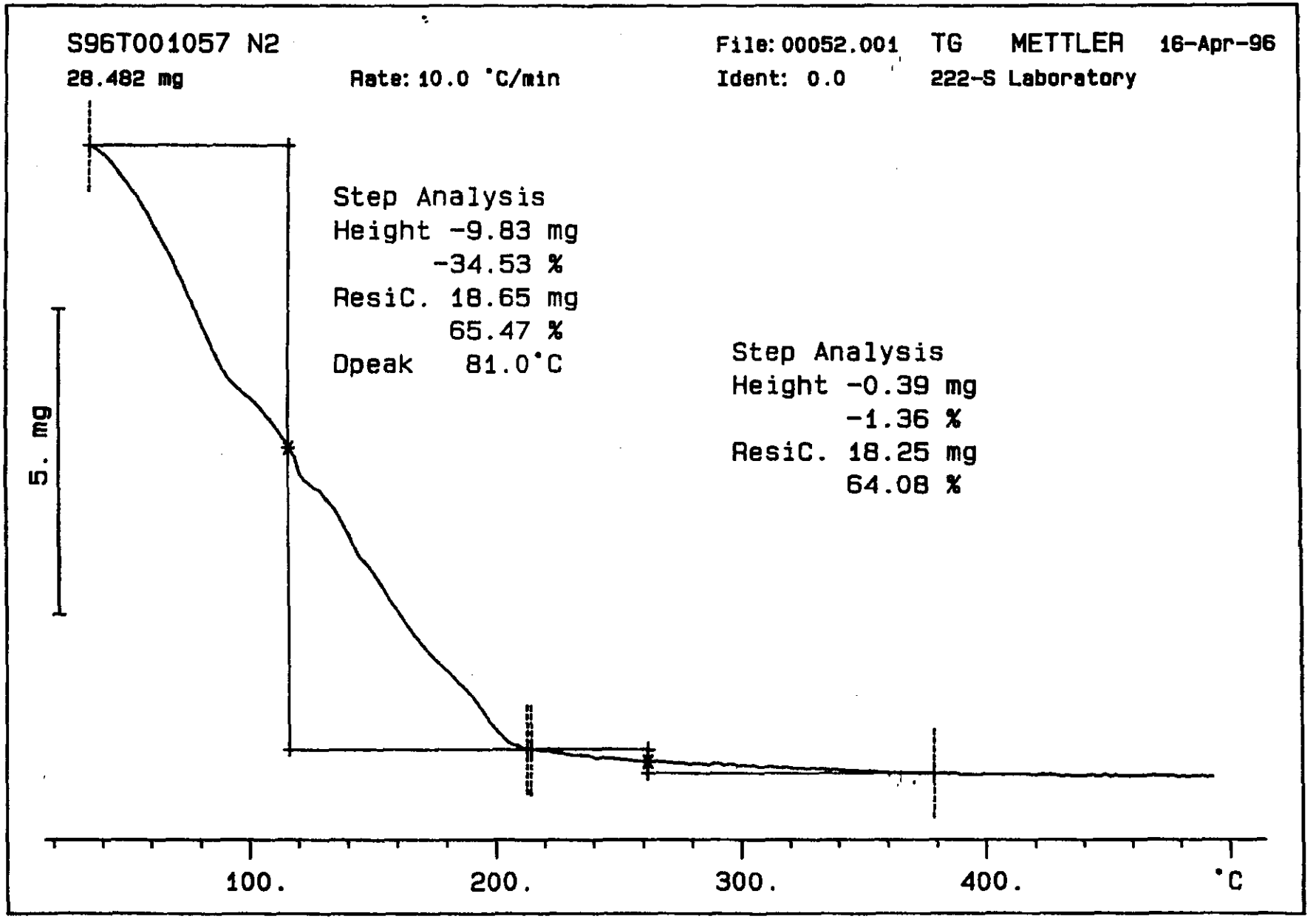
Data Entry Comments: Ran a Trip on S96T001058

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

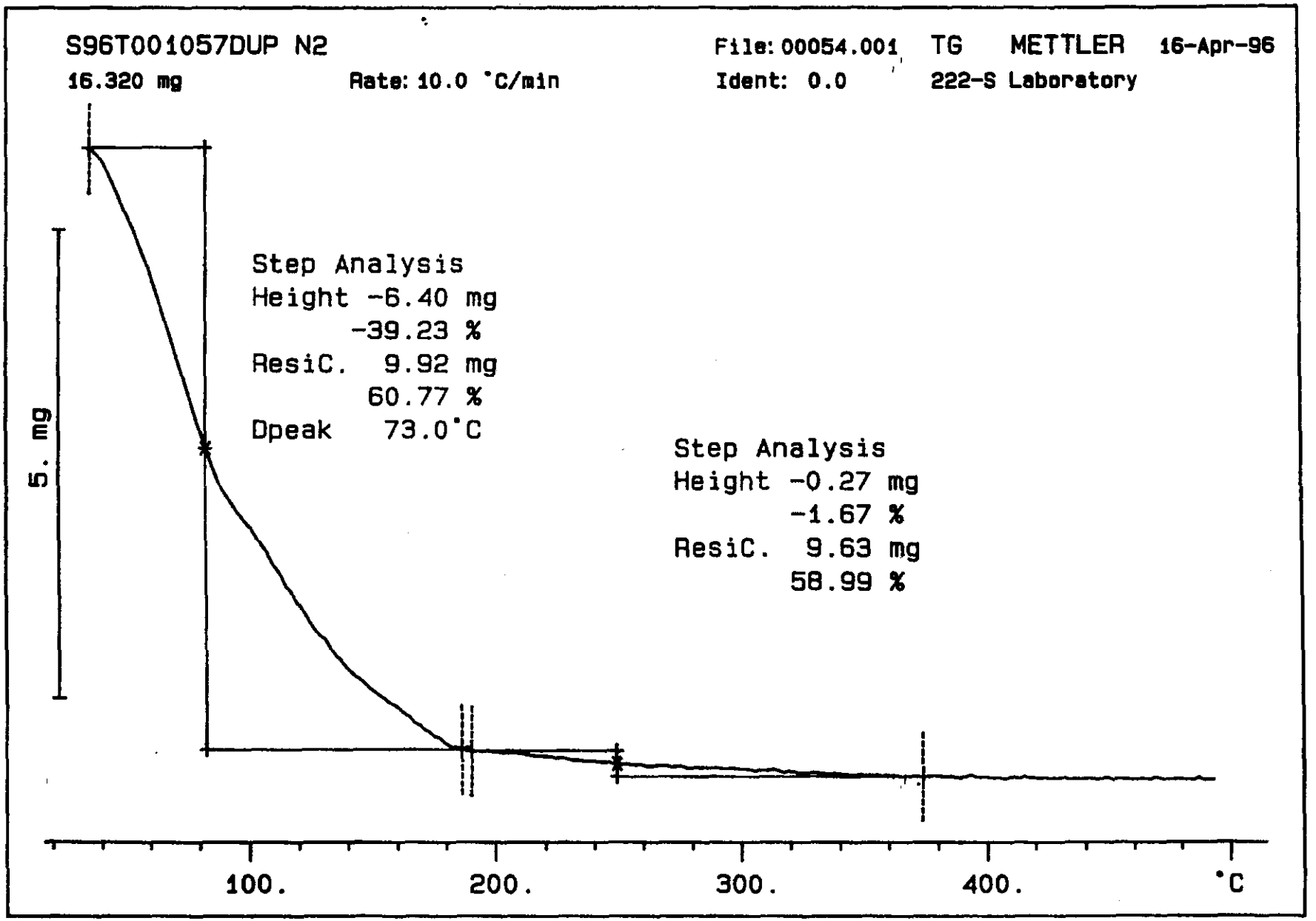
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2211 TO 2216



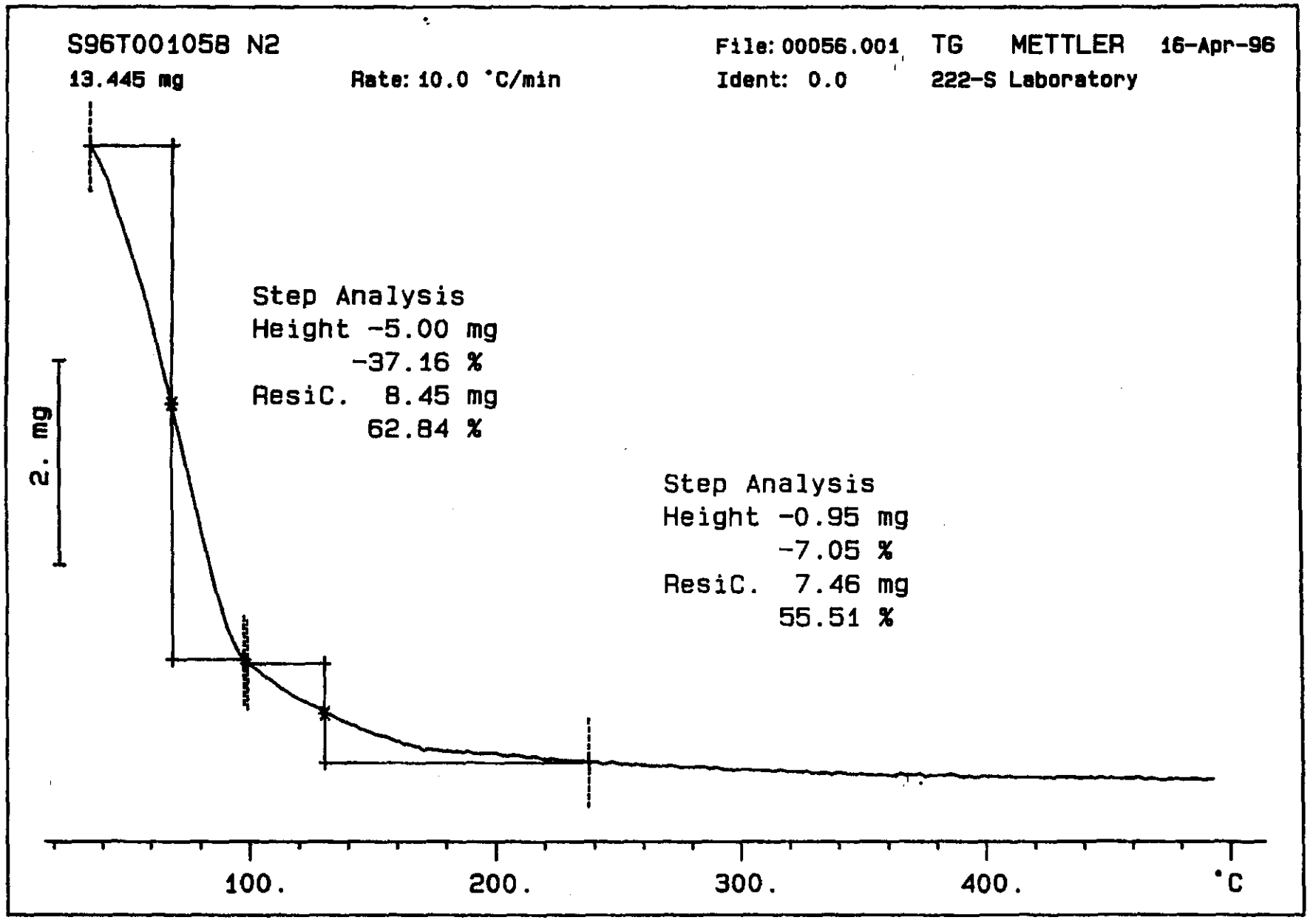
04/17/96 14:15 ☎509 372 2929 RESINGROUP



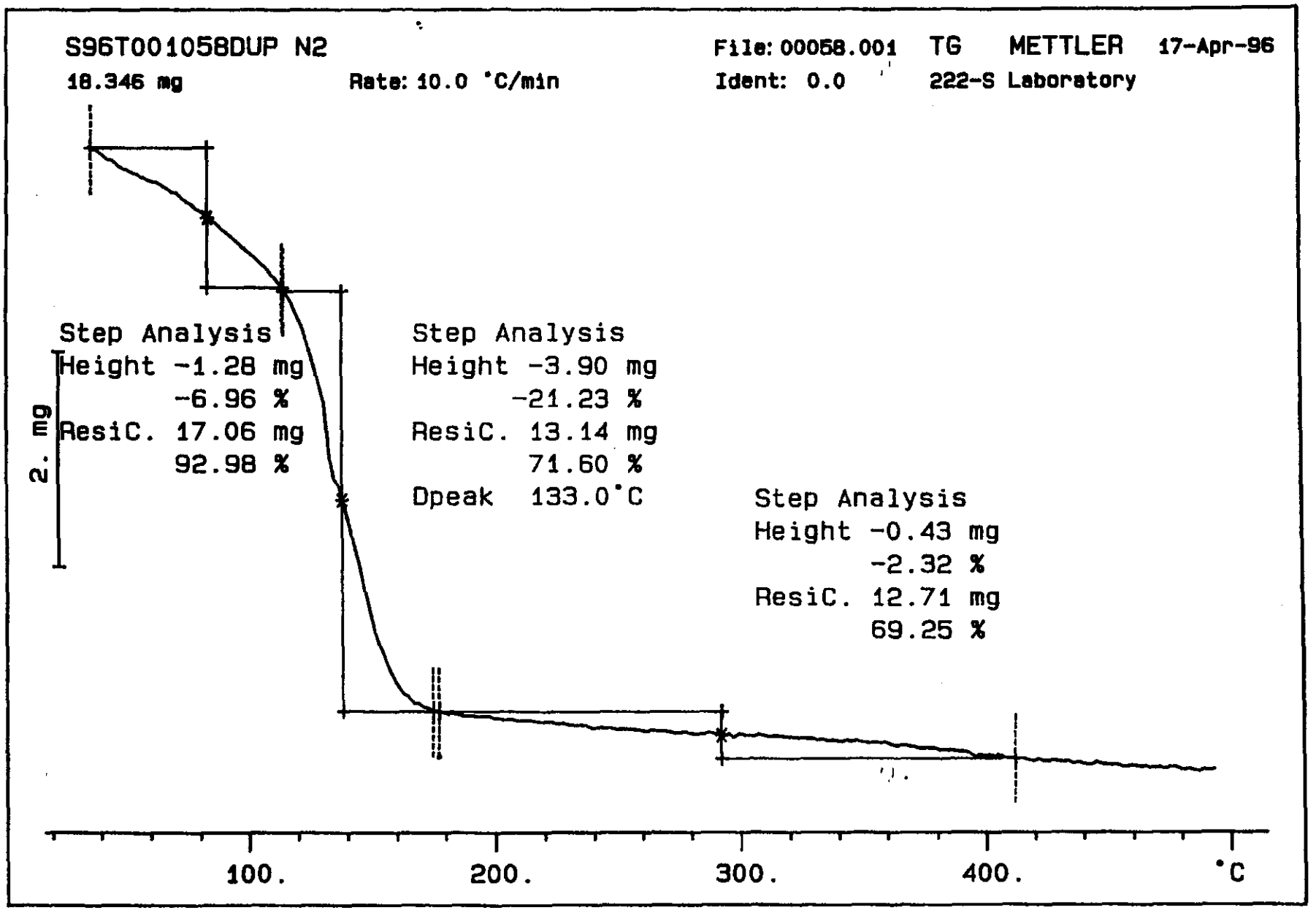
04/17/98 14:15 ☎509 372 2929



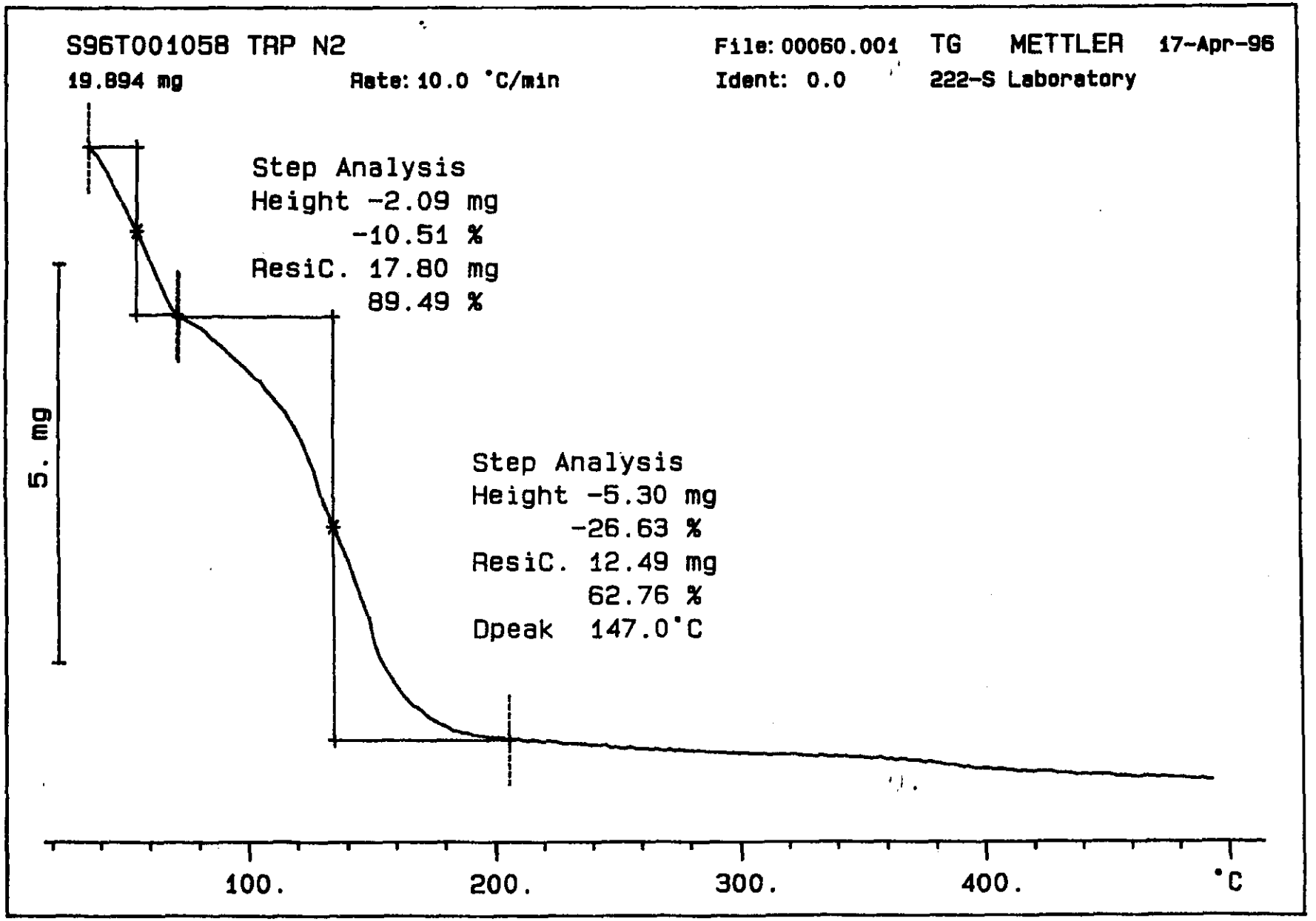
04/17/96 14:18 ☎509 372 2929



04/17/96 14:16 8787 7/8 BOSC 01/01/00 TGOOOIS.TCSD



04/17/96 14:17 ☎509 372 2829 TECHNITECH 2000


S96T001058 TRP N2
19.894 mg
Rate: 10.0 °C/min
File: 00060.001
Ident: 0.0
TG
METTLER
17-Apr-96
222-S Laboratory
Step Analysis
Height -2.09 mg
-10.51 %
ResiC. 17.80 mg
89.49 %
Step Analysis
Height -5.30 mg
-26.63 %
ResiC. 12.49 mg
62.76 %
Dpeak 147.0°C
5. mg
100.
200.
300.
400.
°C

LABCORE Data Entry Template for Worklist# 6501

Analyst: SMF **Instrument:** TGA0 1 **Book #** 75N8-A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.2	60.62	N/A	%
96000126	U-107	2	SAMPLE	S96T001064	0		TGA-01	SOLID	N/A	23.61		%
96000126	U-107	3	DUP	S96T001064	0		TGA-01	SOLID	23.61	22.76	N/A	%
96000126	U-107	4	SAMPLE	S96T001065	0		TGA-01	SOLID	N/A	~~27.64~~ 28.65	3/21/96	%
96000126	U-107	5	DUP	S96T001065	0		TGA-01	SOLID	3/21/96 ~~27.64~~ 28.65	27.64	N/A	%

Final page for worklist # 6501

Susie M. Fulton 3-18-96 1500
Analyst Signature **Date**

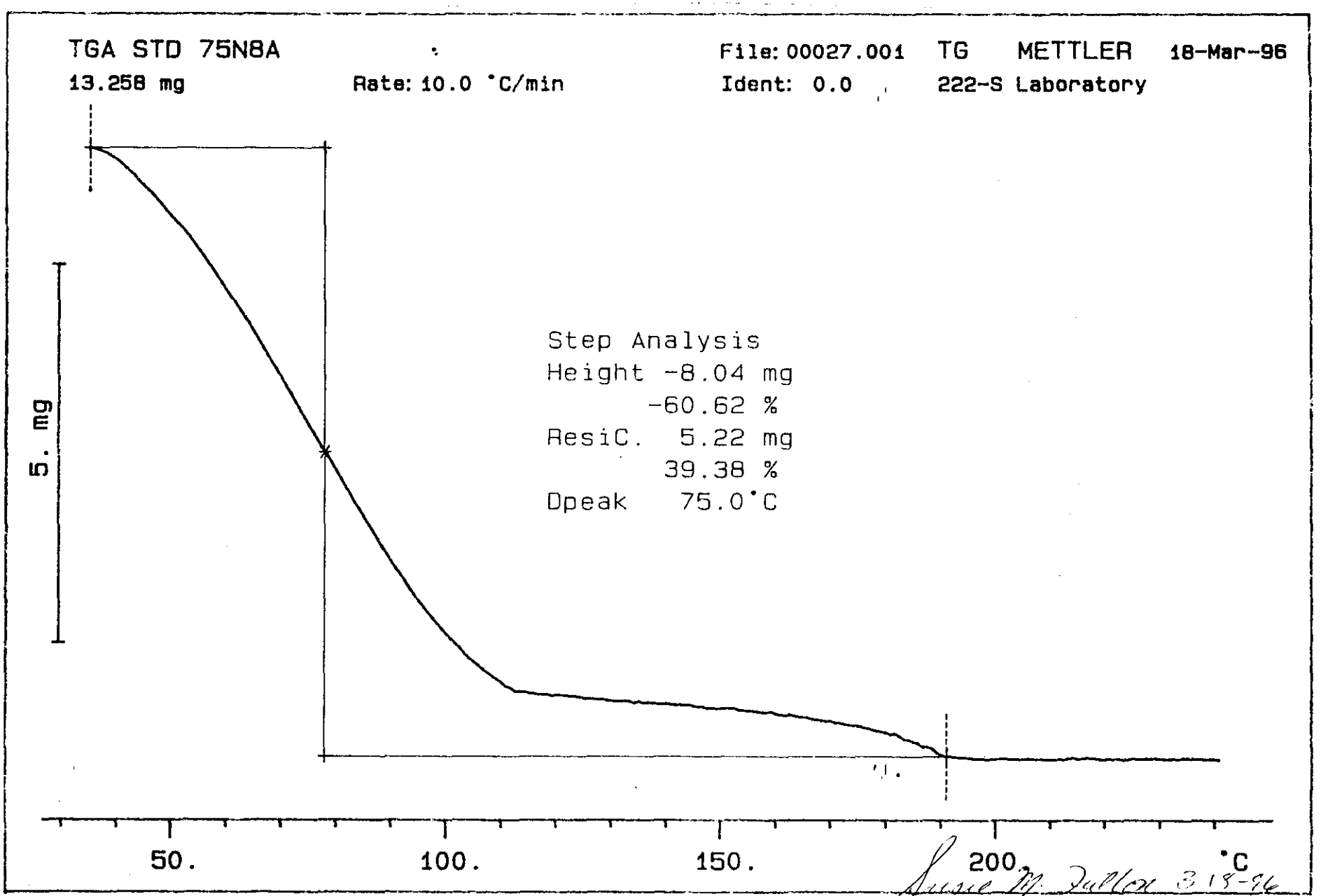
[illegible] 3/22/96
Analyst Signature **Date**

Verified by Heather Anastos 3.25.96

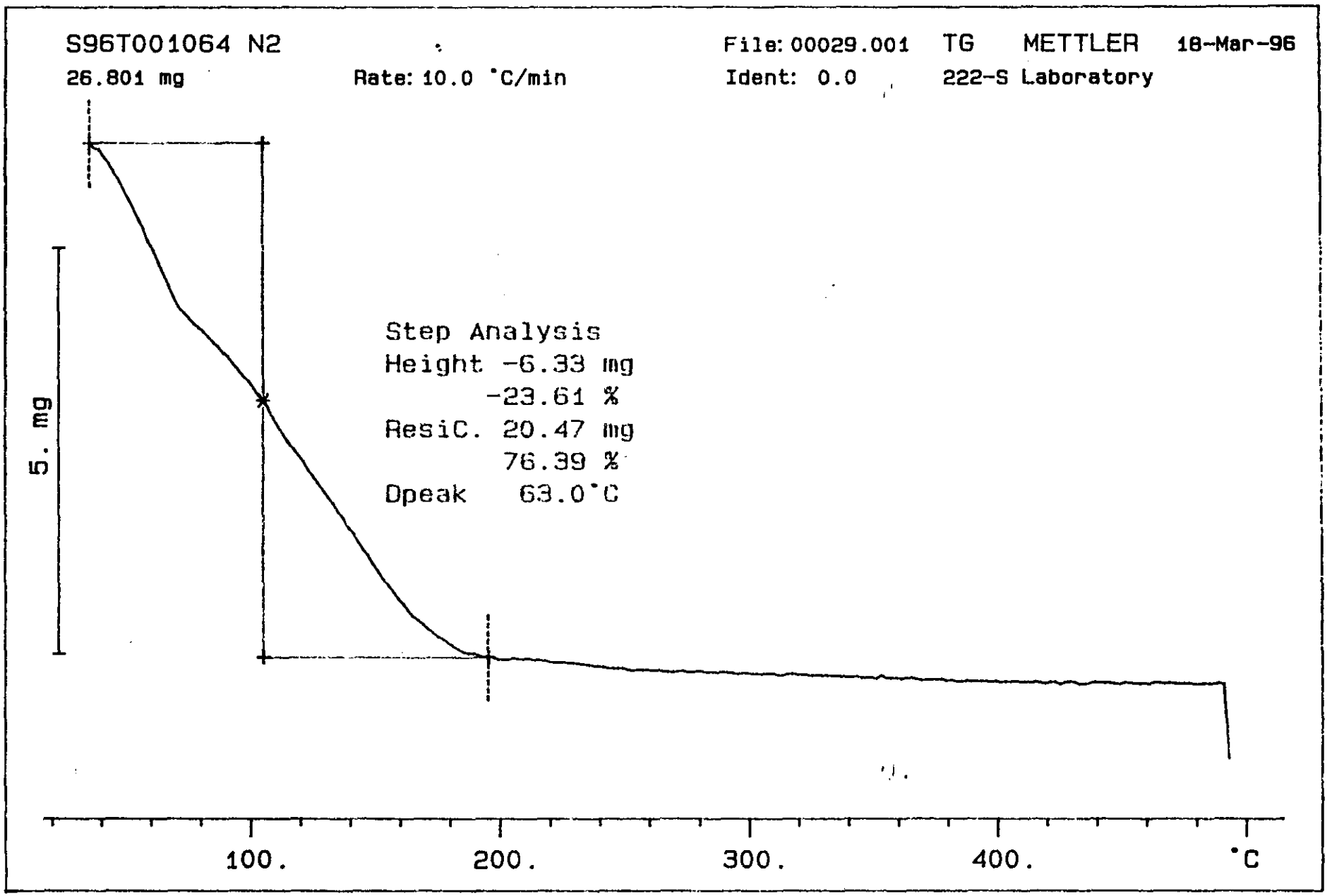
Data Entry Comments: S95T001065 results are the sum of three weight losssteps.

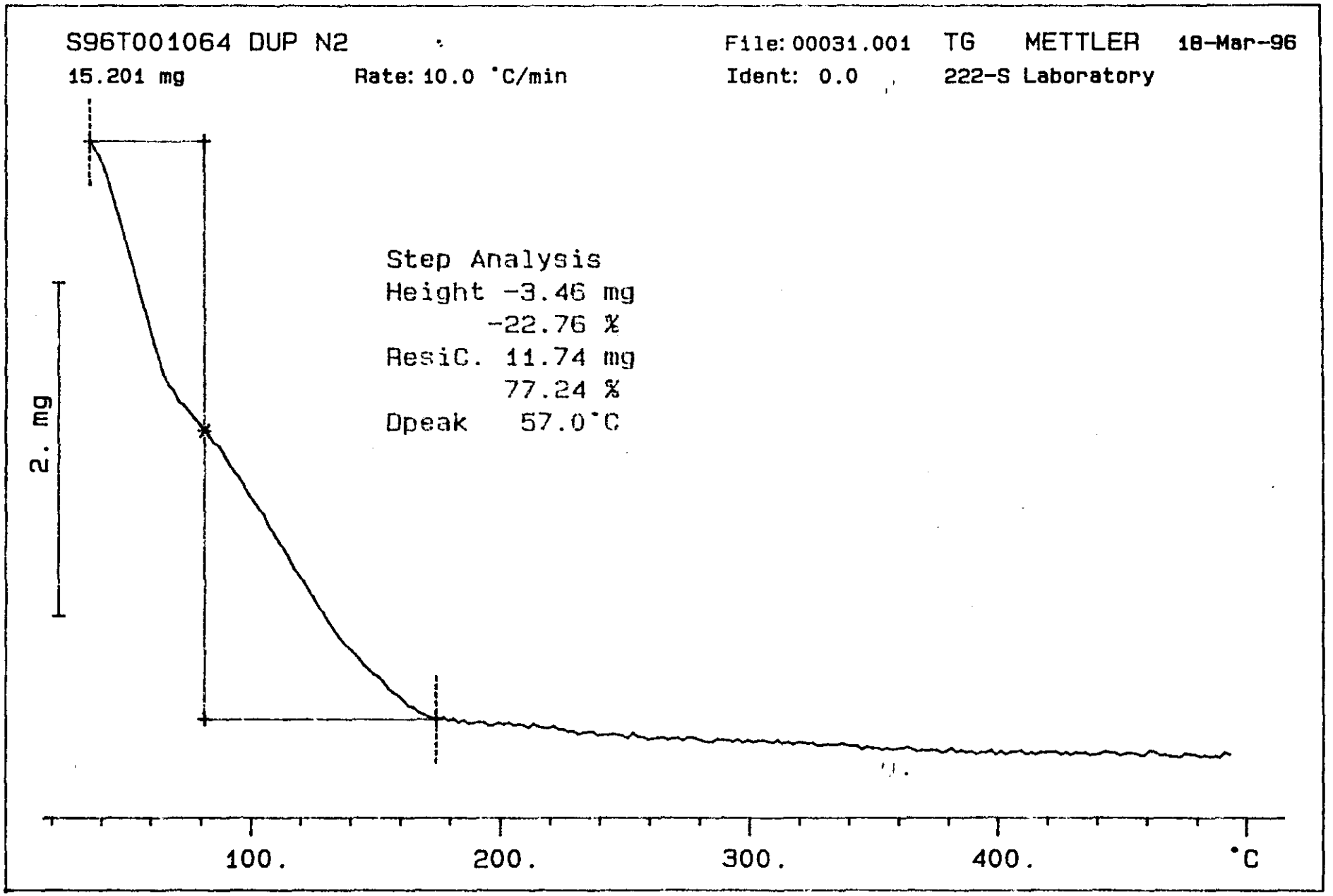
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

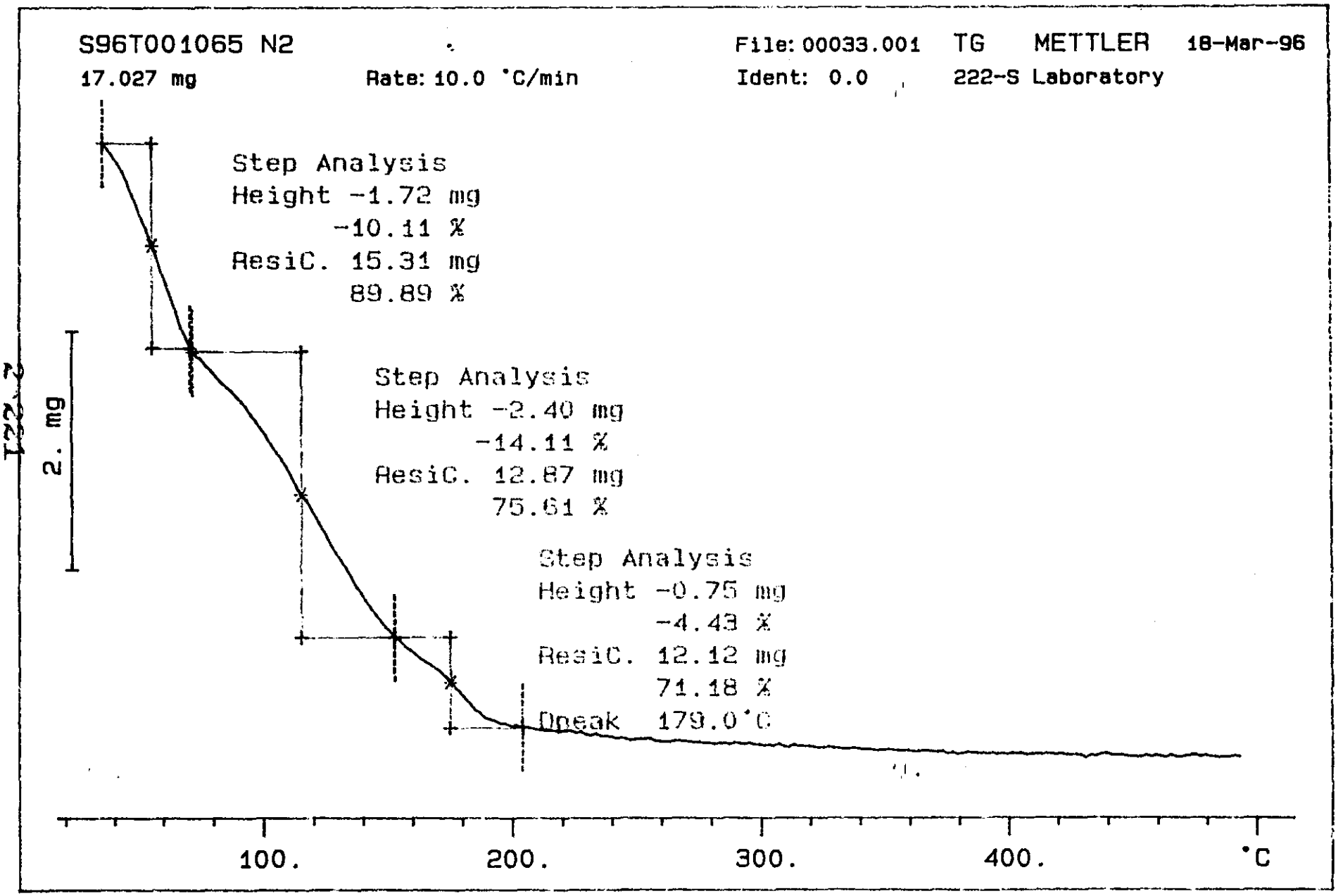
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-218 TO 2-222

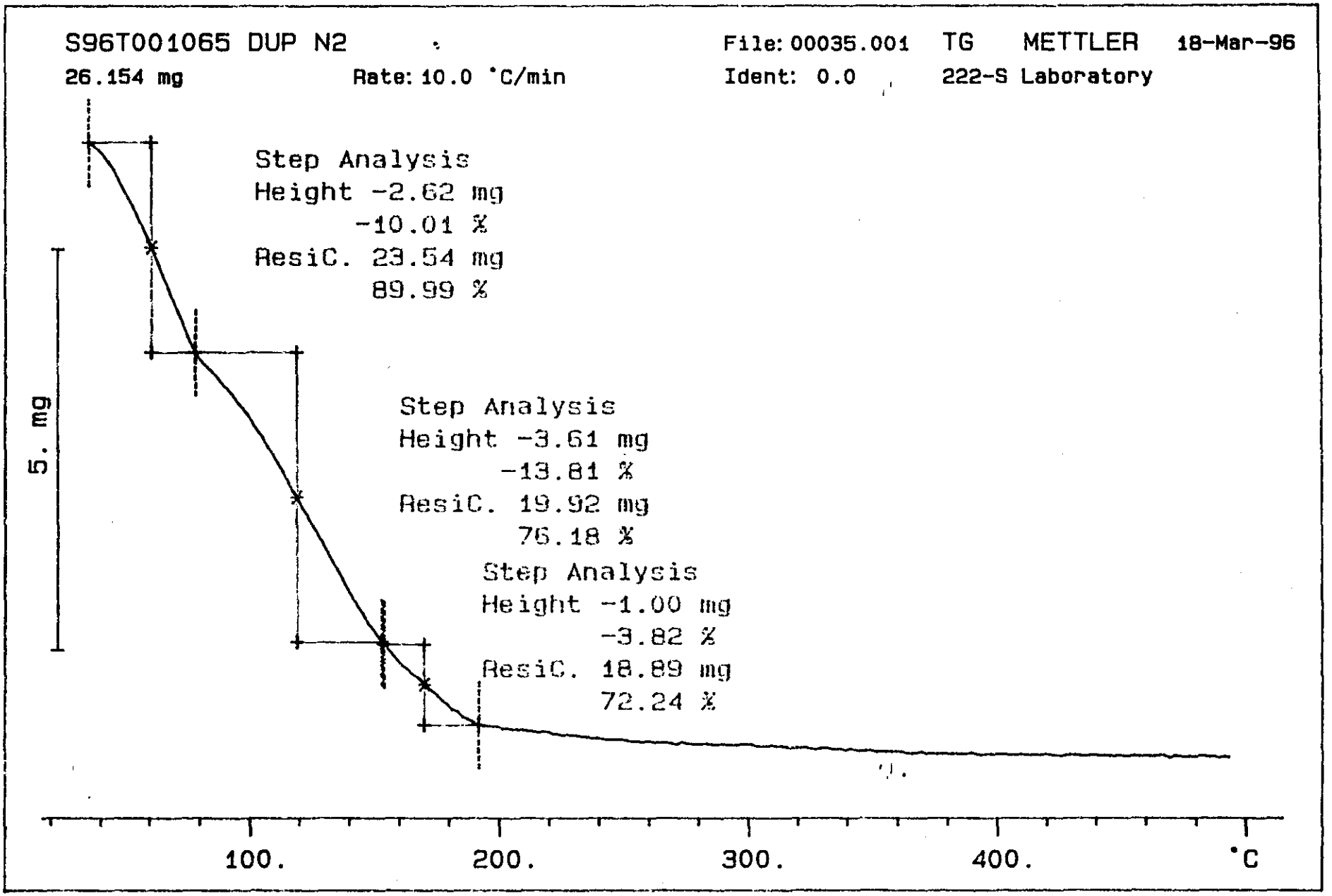


Susie M. Dalton 3-18-96


S96T001064 N2
26.801 mg
Rate: 10.0 °C/min
File: 00029.001
Ident: 0.0
TG
METTLER
222-S Laboratory
18-Mar-96
Step Analysis
Height -6.33 mg
-23.61 %
ResiC. 20.47 mg
76.39 %
Dpeak 63.0°C
5. mg
100.
200.
300.
400.
°C


S96T001064 DUP N2
15.201 mg
Rate: 10.0 °C/min
File: 00031.001
TG
METTLER
18-Mar-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -3.46 mg
-22.76 %
ResiC. 11.74 mg
77.24 %
Dpeak 57.0°C
2. mg
100.
200.
300.
400.
°C


S96T001065 N2
17.027 mg
Rate: 10.0 °C/min
File: 00033.001
Ident: 0.0
TG
METTLER
18-Mar-96
222-S Laboratory
Step Analysis
Height -1.72 mg
-10.11 %
ResiC. 15.31 mg
89.89 %
Step Analysis
Height -2.40 mg
-14.11 %
ResiC. 12.87 mg
75.61 %
Step Analysis
Height -0.75 mg
-4.43 %
ResiC. 12.12 mg
71.18 %
Dpeak 179.0°C
2. mg
100.
200.
300.
400.
°C


S96T001065 DUP N2
26.154 mg
Rate: 10.0 °C/min
File: 00035.001
Ident: 0.0
TG
METTLER
18-Mar-96
222-S Laboratory
Step Analysis
Height -2.62 mg
-10.01 %
ResiC. 23.54 mg
89.99 %
Step Analysis
Height -3.61 mg
-13.81 %
ResiC. 19.92 mg
76.18 %
Step Analysis
Height -1.00 mg
-3.82 %
ResiC. 18.89 mg
72.24 %
5. mg
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
04/23/96 09:48

Page. 1

LABCORE Data Entry Template for Worklist# 6502

Analyst: SMF **Instrument:** TGA0 3 **Book #** 82N8A

Method: LA-514-114 Rev/Mod C-1

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	59.2	59.16	N/A	%
96000126	U-107	2 SAMPLE	S96T001068	0	TGA-03	SOLID	N/A	38.28		%
96000126	U-107	3 DUP	S96T001068	0	TGA-03	SOLID	38.28	43.35	N/A	%
		4 STD			TGA-03	SOLID	59.2	58.85	N/A	%
96000085	U-107	5 SAMPLE	S96T001143	0	TGA-03	SOLID	N/A	4.96		%
96000085	U-107	6 DUP	S96T001143	0	TGA-03	SOLID	4.96	6.36	N/A	%
96000085	U-107	7 TRIPL	S96T001143	0	TGA-03	SOLID	4.96	7.87	N/A	%

Final page for worklist # 6502

See Attached for Signatures.
Analyst Signature **Date**

N E Wright 4/24/96
Analyst Signature **Date**

S96T001068 results are the sum of two weight loss steps (9.57 + 28.71%).
Verified by H Anastos 4-24-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
03/14/96 13:34

LABCORE Data Entry Template for Worklist# 6502

Analyst: SMF **Instrument:** TGA0 _____ **Book #** 82A/8A

Method: LA-560-112 Rev/Mod _____

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID			N/A	%
96000126	U-107	2	SAMPLE	S96T001068	0		TGA-01	SOLID	N/A			%
96000126	U-107	3	DUP	S96T001068	0		TGA-01	SOLID			N/A	%
96000085	U-107	4	SAMPLE	S96T001143	0		TGA-01	SOLID	N/A			%
96000085	U-107	5	DUP	S96T001143	0		TGA-01	SOLID			N/A	%

Final page for worklist # 6502

Susie M. Dalton 4-17-96
Analyst Signature Date

Analyst Signature Date

RJ McCown 4/17/96

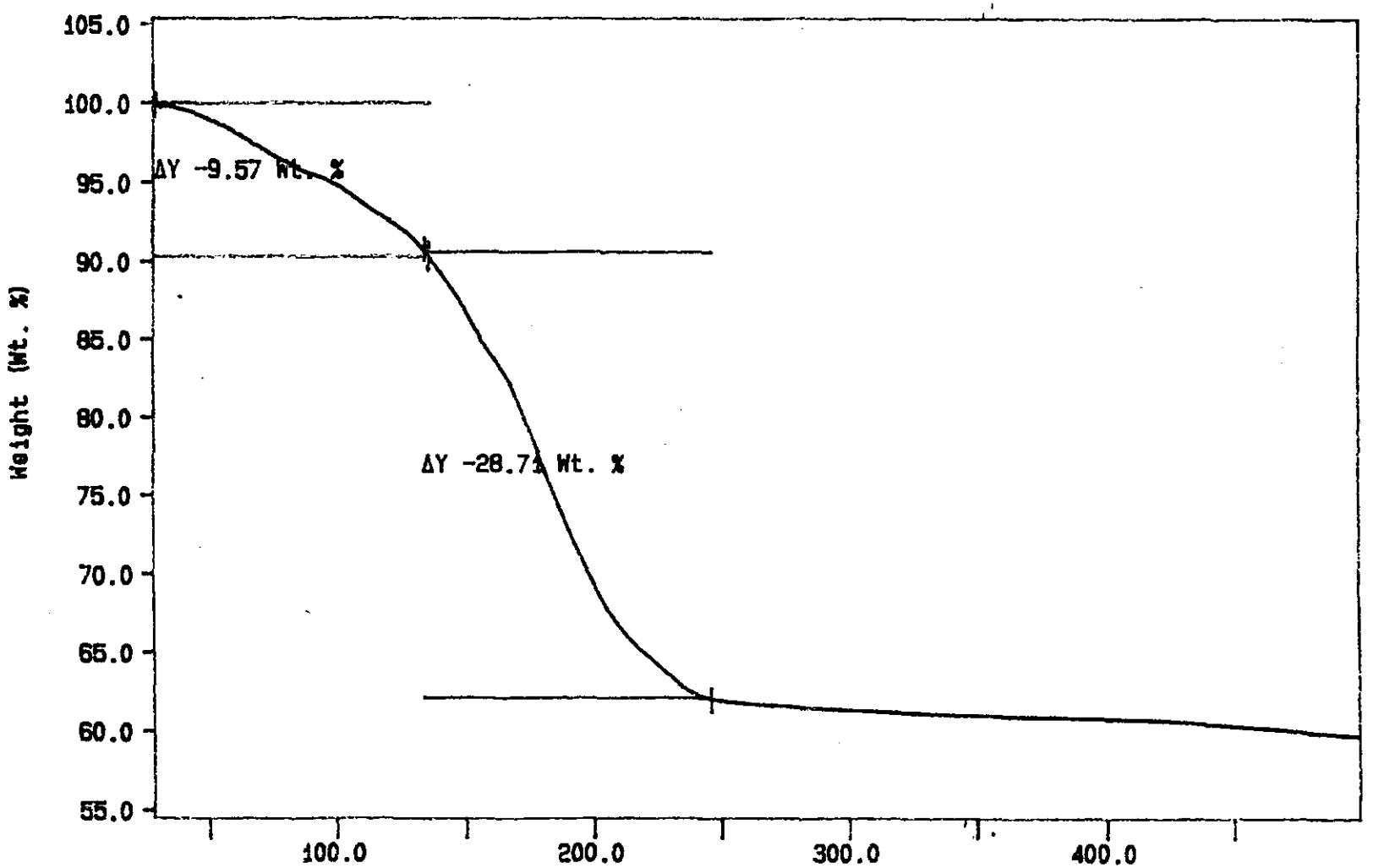
Other Instrument was Used.

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

04/23/98 10:05 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 010

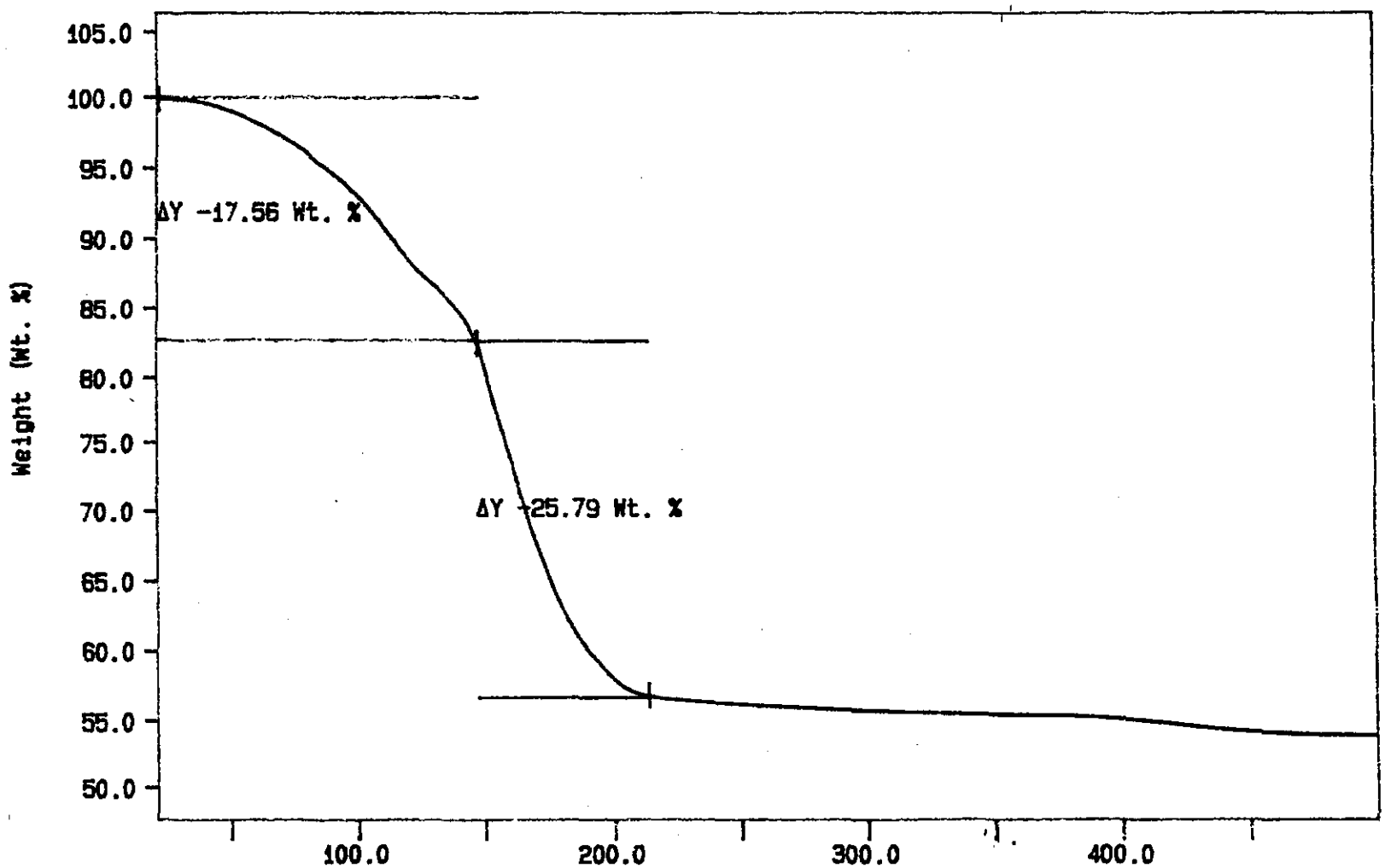
Curve 1: TGA
File info: SAM041701 Wed Apr 17 07:52:09 1996
Sample Weight: 30.536 mg
S96T001068



10C/MIN N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 17 08:40:33 1996

Curve 1: TGA
File info: SAM041702 Wed Apr 17 09:32:26 1996
Sample Weight: 19.384 mg
S96T001068 DUP

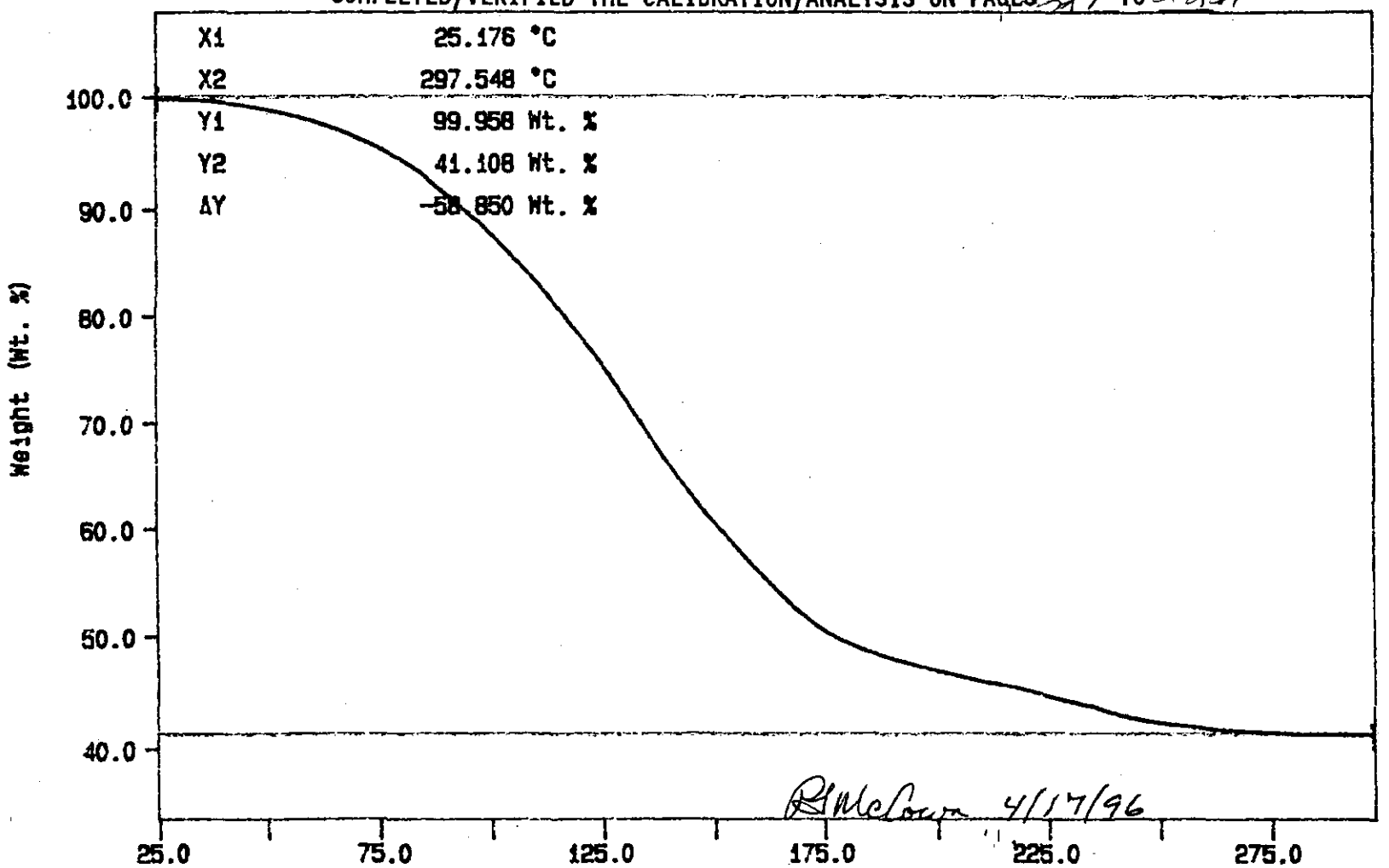


10C/MIN N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 17 09:40:08 1996

Curve 1: TGA
File info: TER041705 Wed Apr 17 18:57:56 1996
Sample Weight: 20.559 mg
TGA STD 82N8-A

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2227 TO 2231



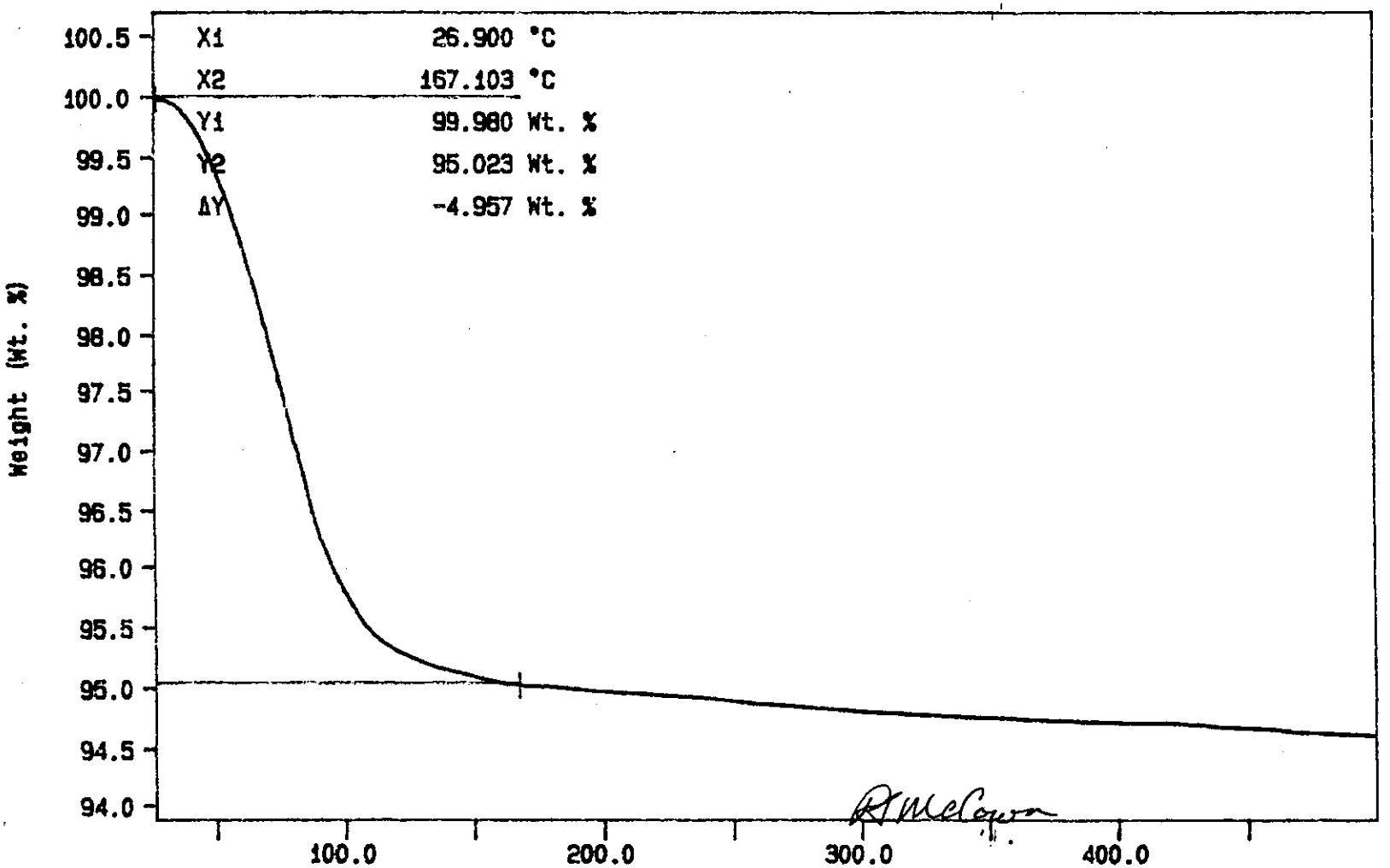
PJ McCown 4/17/96

N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 17 19:01:02 1996

2227

Curve 1: TGA
File info: SAM041703 Wed Apr 17 20:09:24 1996
Sample Weight: 15.606 mg
S96T001143 SAM

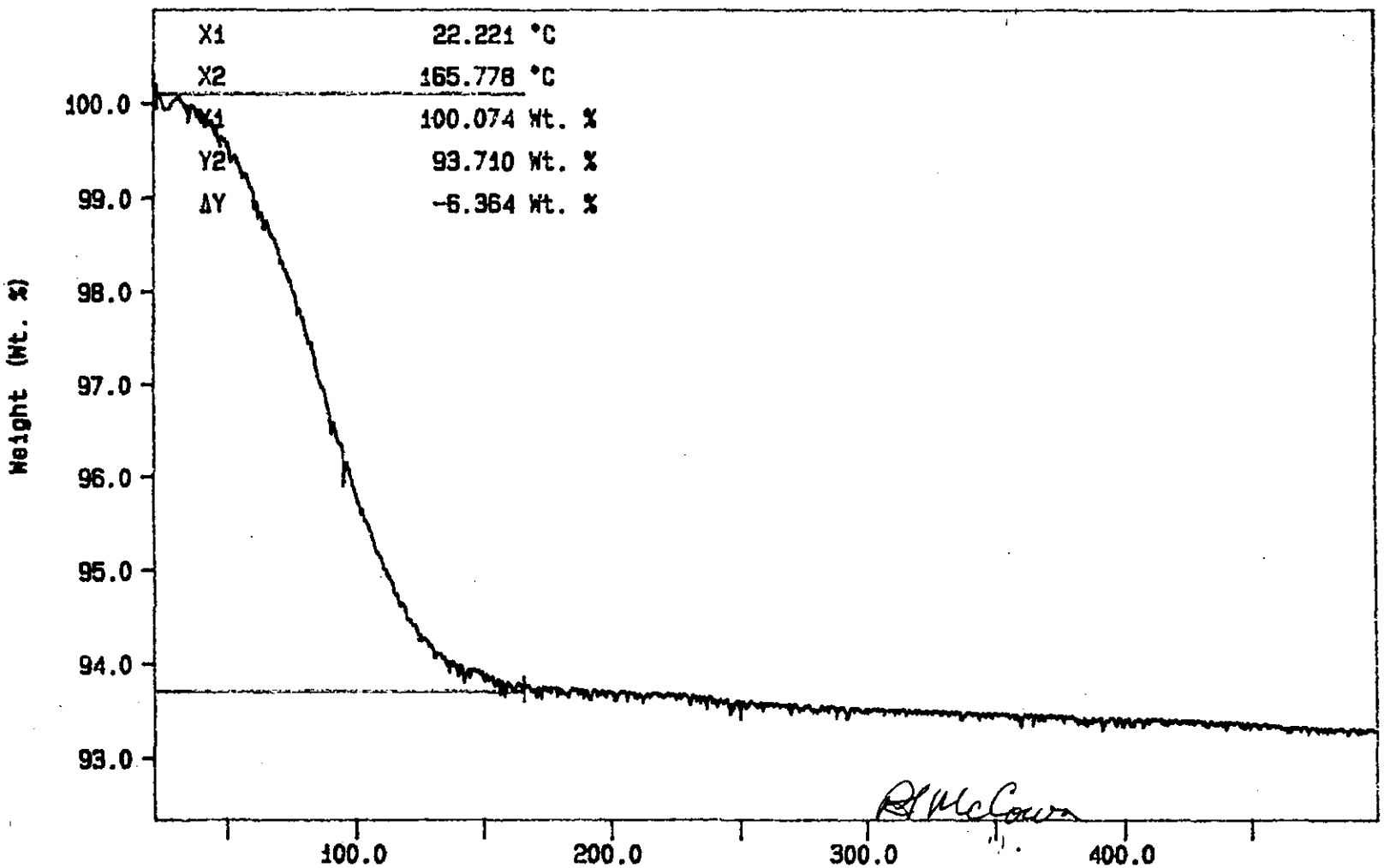


10C/MIN N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 17 20:29:28 1996

2-228

Curve 1: TGA
File info: SAM041704 Wed Apr 17 21:41:51 1996
Sample Weight: 19.944 mg
S96T001143 DUP

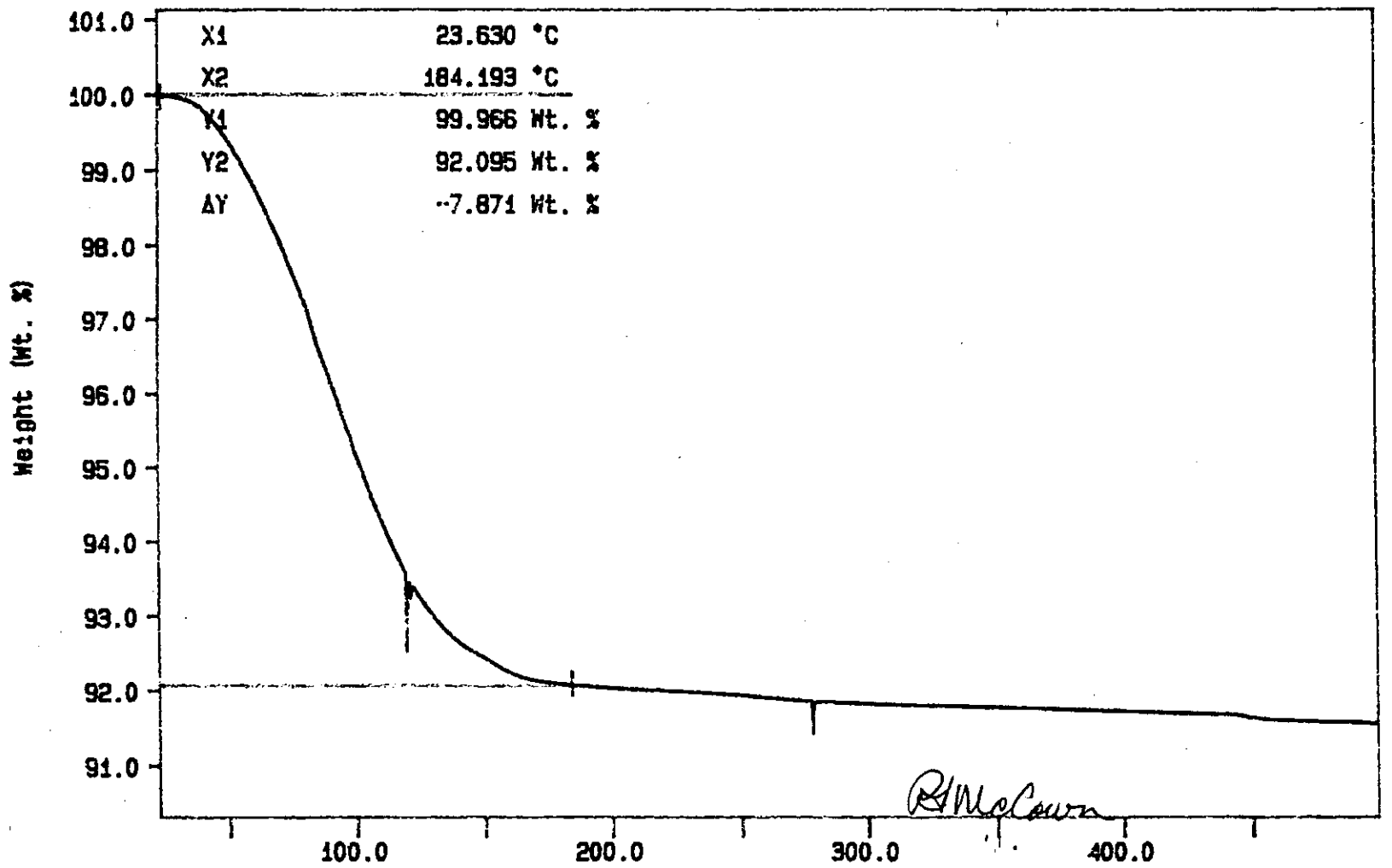


10C/MIN N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 17 21:42:28 1996

2-229

Curve 1: TGA
File info: SAM041705 Wed Apr 17 22:56:09 1996
Sample Weight: 20.775 mg
S96T001143 TRIP



10C/MIN N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 800.0 C

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Apr 17 22:58:19 1996

2-230

worklistrpt Version 2.1 03/15/95
03/18/95 13:50

LABCORE Data Entry Template for Worklist# 6633

Analyst: SMF **Instrument:** TGA0 1 **Book #** 82N817

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 FOR TGA (RUN UNDER N2) RTS

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	LIQUID	59.2	58.97	N/A	%
96000085	U-107	2	SAMPLE	S96T000665	0		TGA-01	LIQUID	N/A	51.94		%
96000085	U-107	3	DUP	S96T000665	0		TGA-01	LIQUID	51.94	54.51	N/A	%
96000085	U-107	4	SAMPLE	S96T000682	0		TGA-01	LIQUID	N/A	49.79		%
96000085	U-107	5	DUP	S96T000682	0		TGA-01	LIQUID	49.79	49.55	N/A	%

Final page for worklist # 6633

Susie M. Fulton 4-17-96
Analyst Signature **Date**

[illegible] 4-18-96
Analyst Signature **Date**

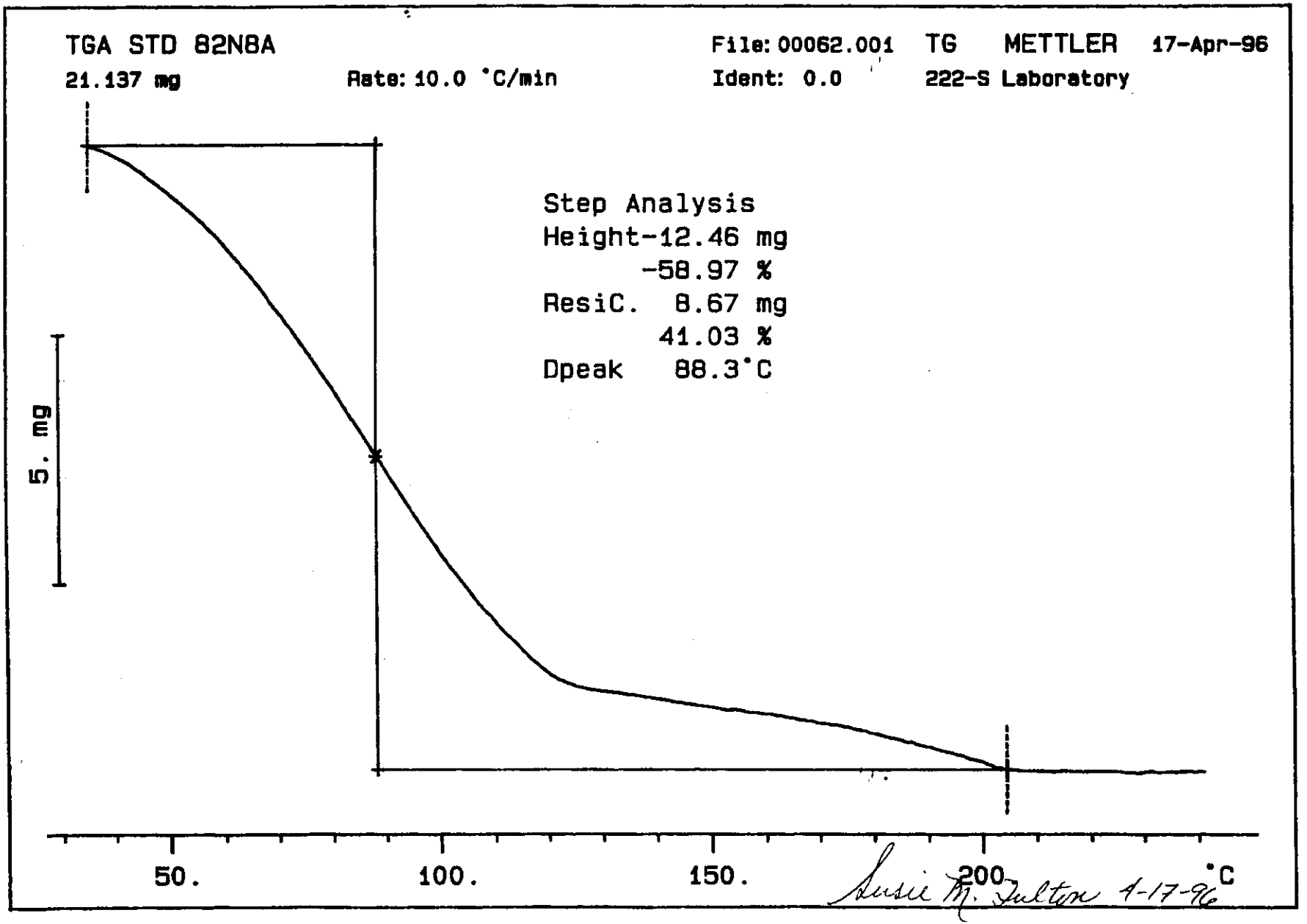
Verified by H Anastos 4-22-96

Data Entry Comments: S96T000665 results are the sum of two weight loss steps.

S96T000682 results are the sum of two weight loss steps

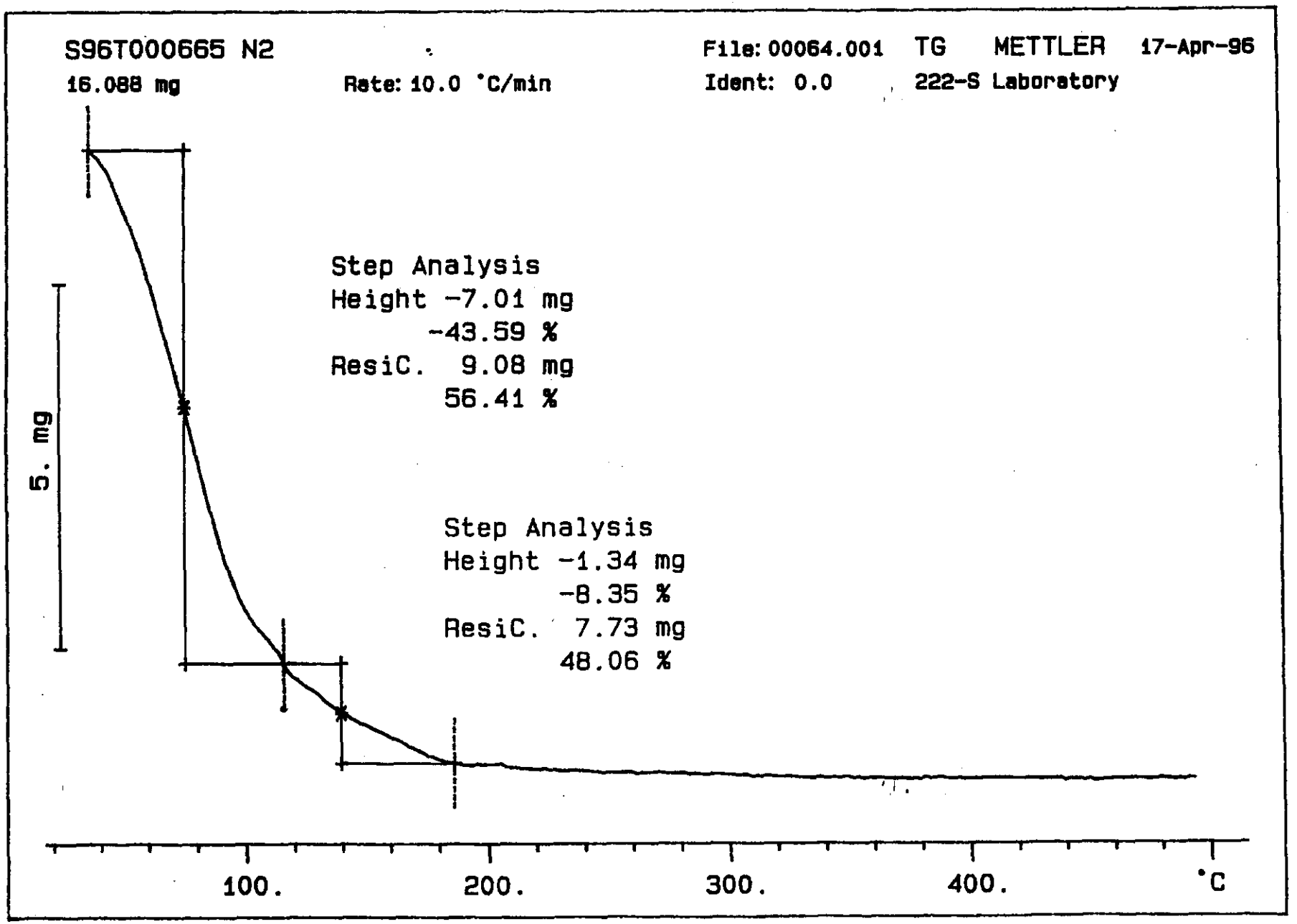
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-233 TO 2-236

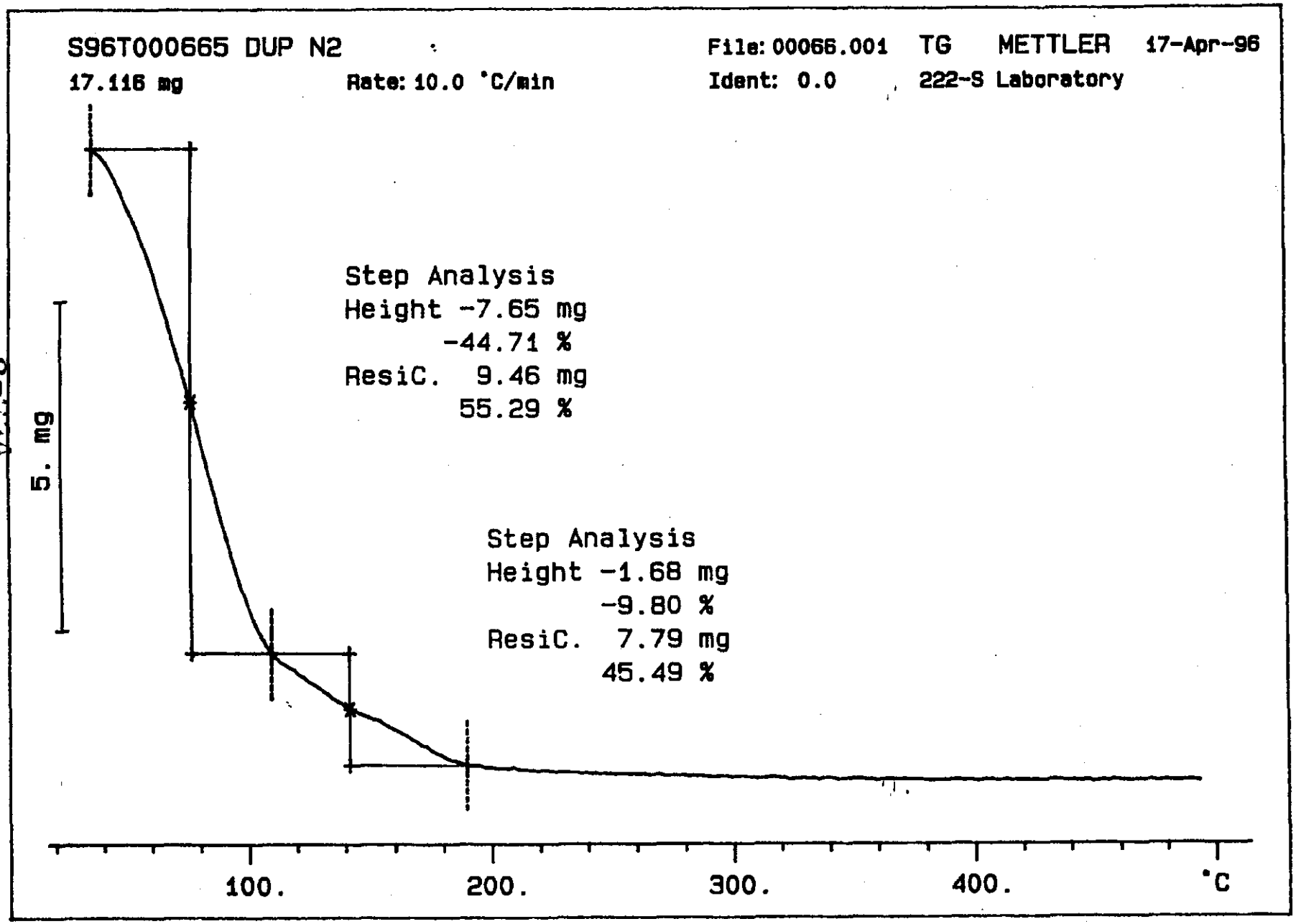


Susie M. Fulton 4-17-96

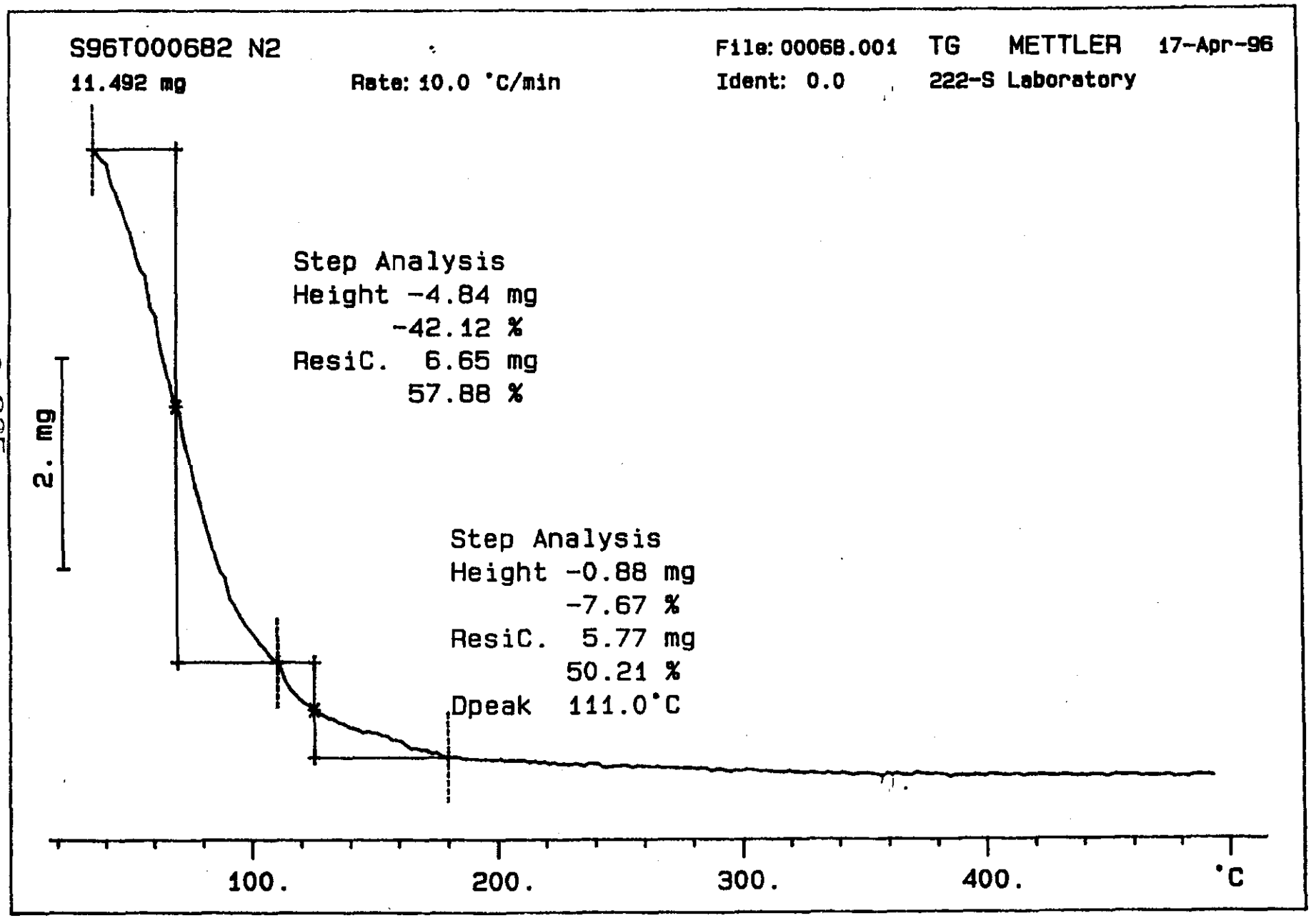
04/18/96 10:53 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 002


S96T000665 N2
16.088 mg
Rate: 10.0 °C/min
File: 00064.001
TG METTLER 17-Apr-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -7.01 mg
-43.59 %
ResiC. 9.08 mg
56.41 %
Step Analysis
Height -1.34 mg
-8.35 %
ResiC. 7.73 mg
48.06 %
5. mg
100.
200.
300.
400.
°C

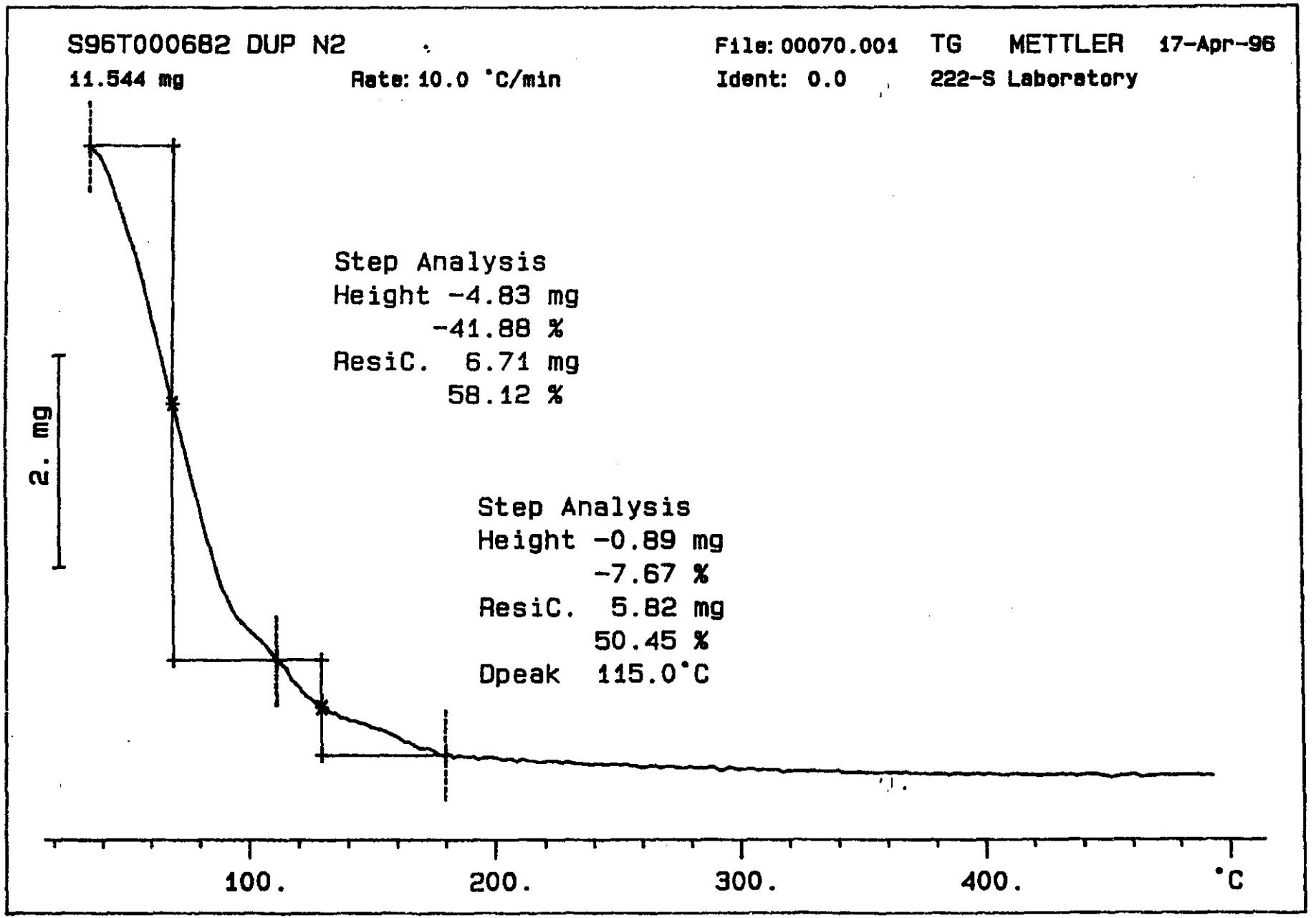
2-233


S96T000665 DUP N2
17.116 mg
Rate: 10.0 °C/min
File: 00066.001
TG METTLER 17-Apr-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -7.65 mg
-44.71 %
ResiC. 9.46 mg
55.29 %
Step Analysis
Height -1.68 mg
-9.80 %
ResiC. 7.79 mg
45.49 %
5. mg
100.
200.
300.
400.
°C

2-231


S96T000682 N2
11.492 mg
Rate: 10.0 °C/min
File: 00068.001
Ident: 0.0
TG METTLER 17-Apr-96
222-S Laboratory
Step Analysis
Height -4.84 mg
-42.12 %
ResiC. 6.65 mg
57.88 %
Step Analysis
Height -0.88 mg
-7.67 %
ResiC. 5.77 mg
50.21 %
Dpeak 111.0°C
2. mg
100.
200.
300.
400.
°C

2-235



04/18/96 10:55 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 006

worklistrpt Version 2.1 05/15/95
04/03/96 15:21

LABCORE Data Entry Template for Worklist# 6648

Analyst: RDM **Instrument:** TGA0 1 **Book #** 100CN2

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 FOR TGA (RUN UNDER N2) RTS!

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.4	61.71	N/A	%
96000126	U-107	2	SAMPLE	S96T001059	0		TGA-01	SOLID	N/A	21.25		%
		3	STD				TGA-01	SOLID	59.4	59.44	N/A	%
96000126	U-107	4	DUP	S96T001059	0		TGA-01	SOLID	21.25	21.26	N/A	%
		5	STD				TGA-01	SOLID	59.4	61.10	N/A	%
96000126	U-107	6	SAMPLE	S96T001070	0		TGA-01	SOLID	N/A	91.44		%
96000126	U-107	7	DUP	S96T001070	0		TGA-01	SOLID	91.44	91.02	N/A	%

Final page for worklist # 6648

See Attached for Signatures
Analyst Signature **Date**

Linda Cook 4/11/96
Analyst Signature **Date**

Verified by Blandina Valenzuela 4/15/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
03/18/96 14:19

LABCORE Data Entry Template for Worklist# 6648

Analyst: RBM **Instrument:** TGA0 1 **Book #** 100LN2

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 FOR TGA (RUN UNDER N2) RTS!

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.4	61.71	N/A	%
96000126	U-107	2	SAMPLE	S96T001059	0		TGA-01	SOLID	N/A	21.25		%
96000126	U-107	3	DUP	S96T001059	0		TGA-01	SOLID	21.25		N/A	%
96000126	U-107	4	SAMPLE	S96T001070	0		TGA-01	SOLID	N/A			%
96000126	U-107	5	DUP	S96T001070	0		TGA-01	SOLID			N/A	%

Final page for worklist # 6648

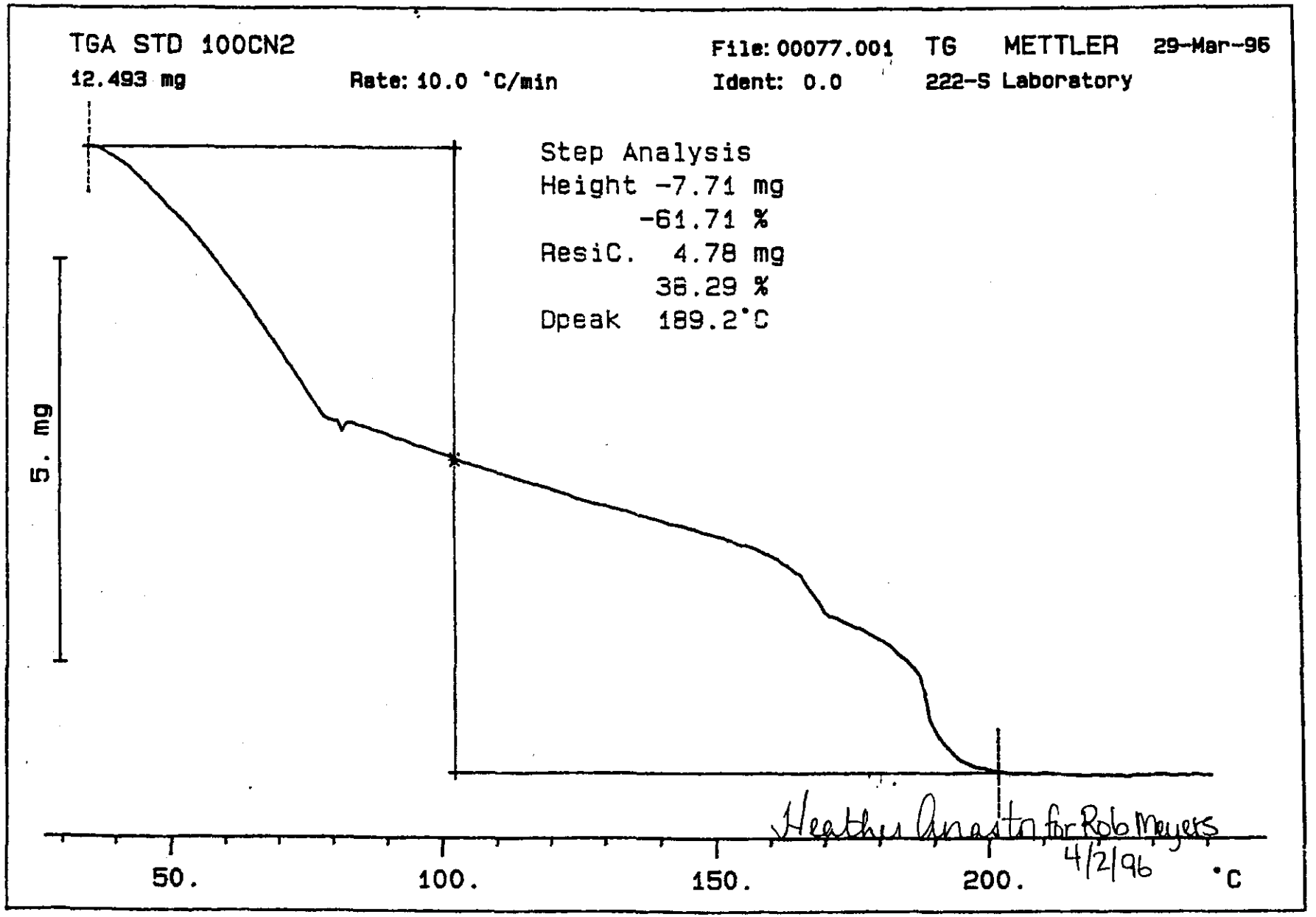
RBMeyn 3/29/96

Analyst Signature **Date** **Analyst Signature** **Date**

Data Entry Comments:

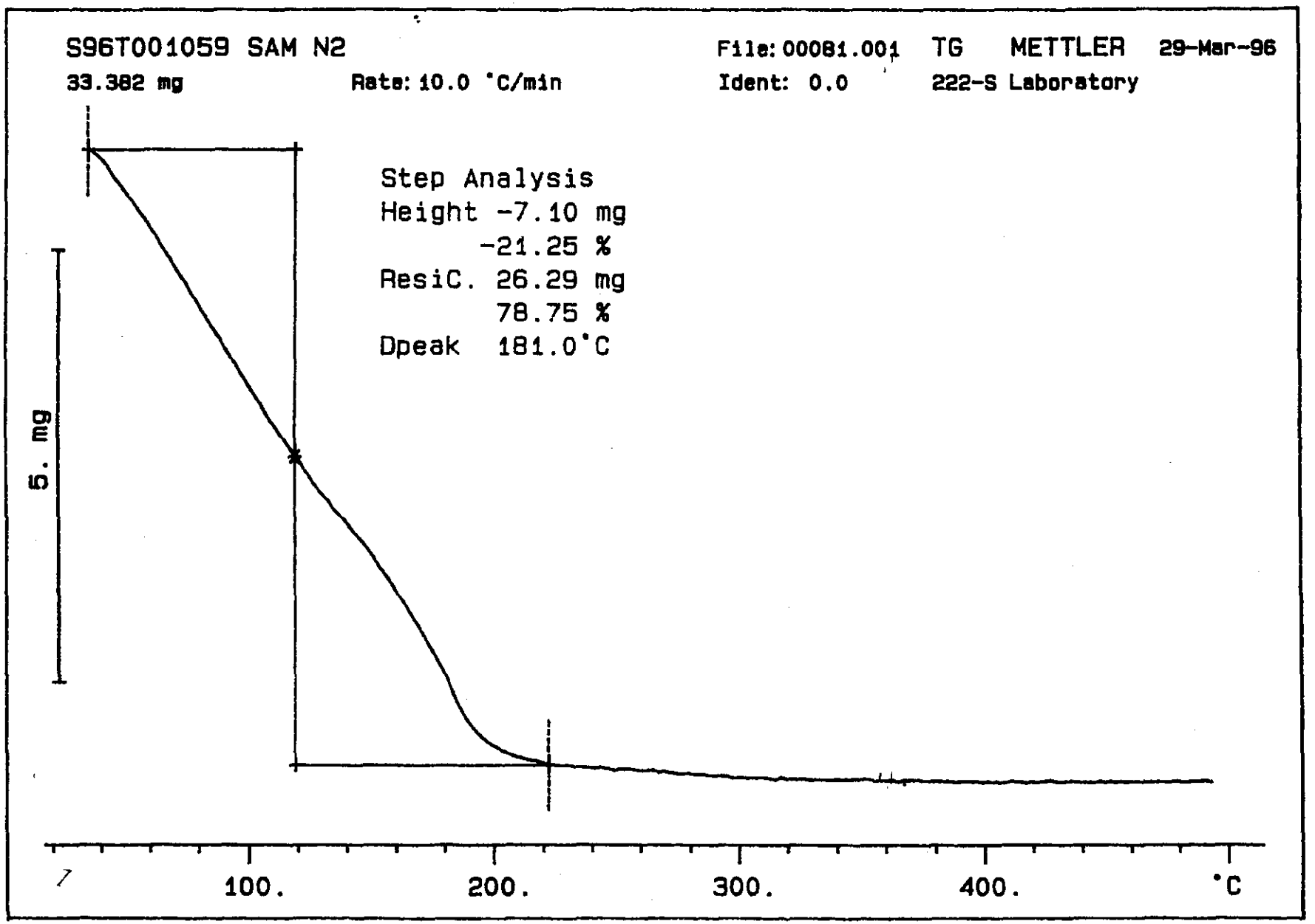
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

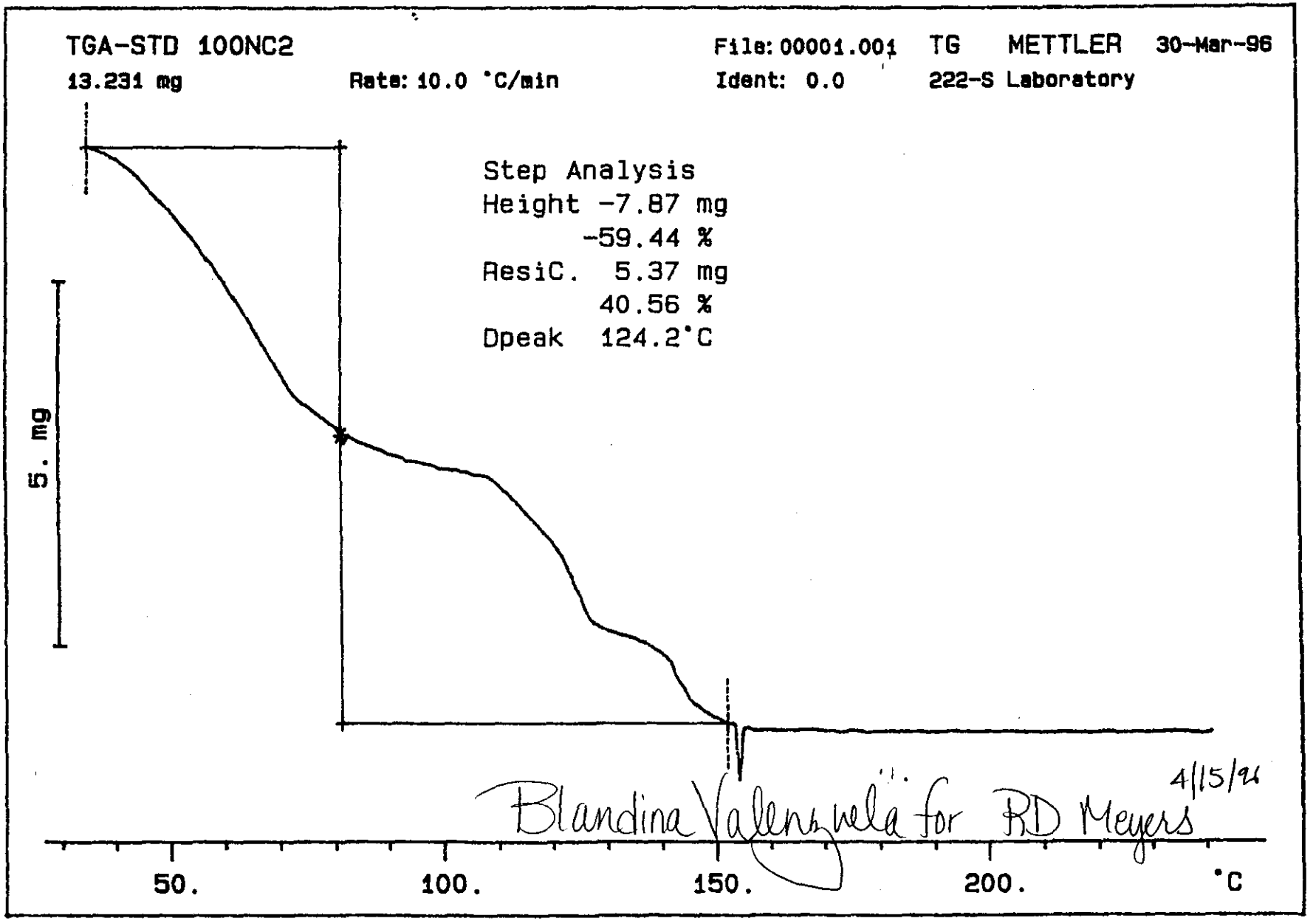
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2239 TO 2245

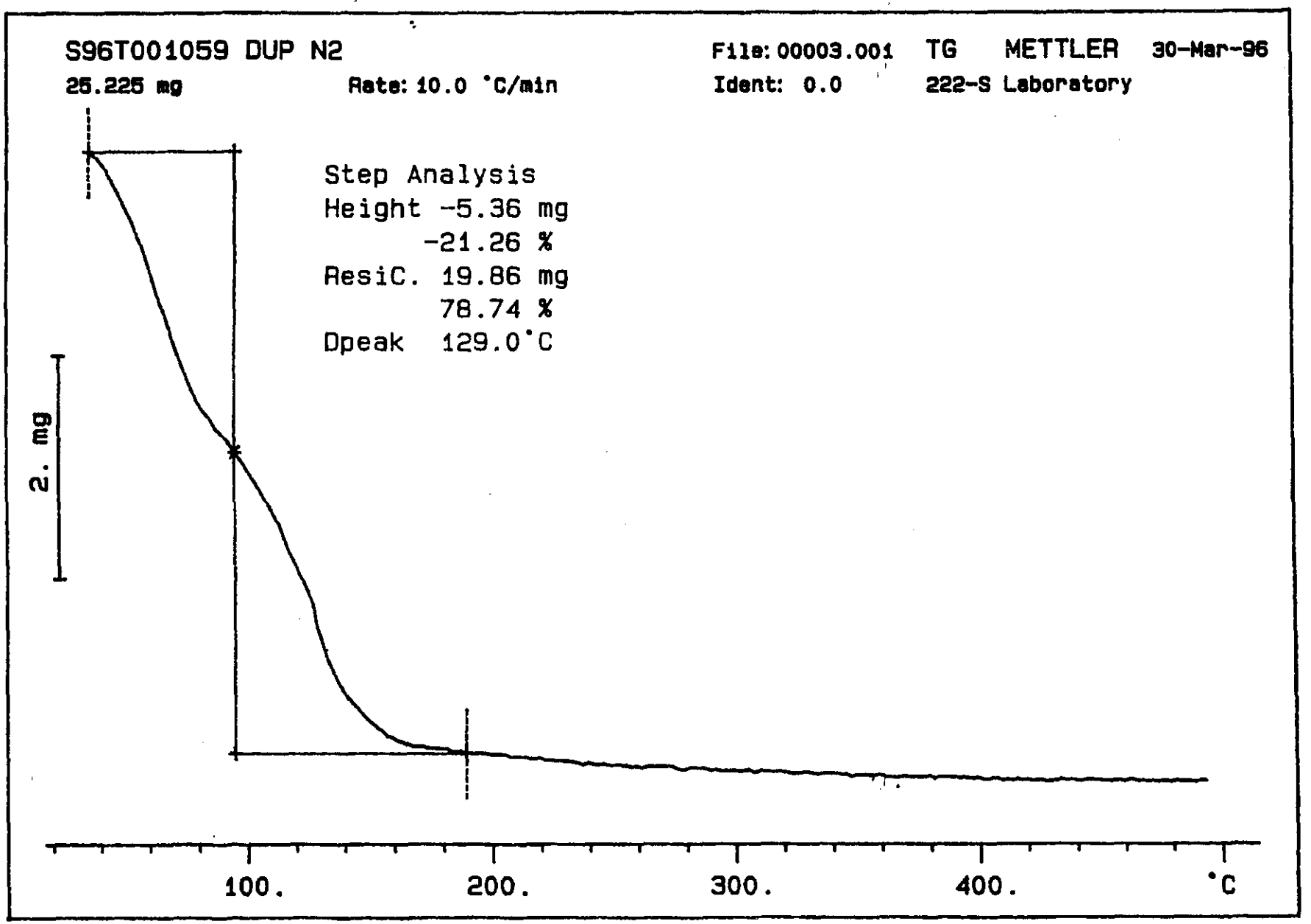


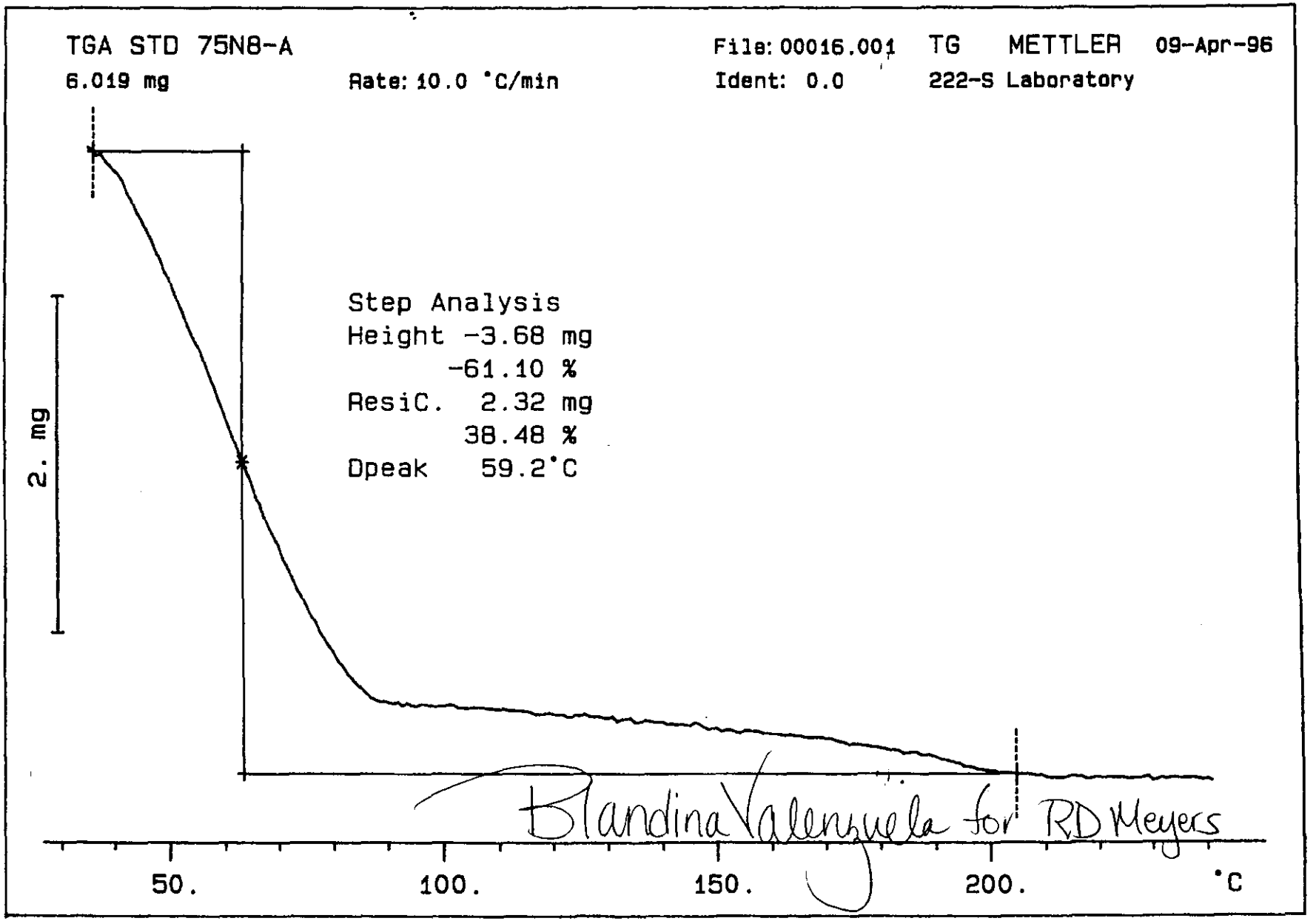
Heather Anastin for Rob Meyers 4/2/96

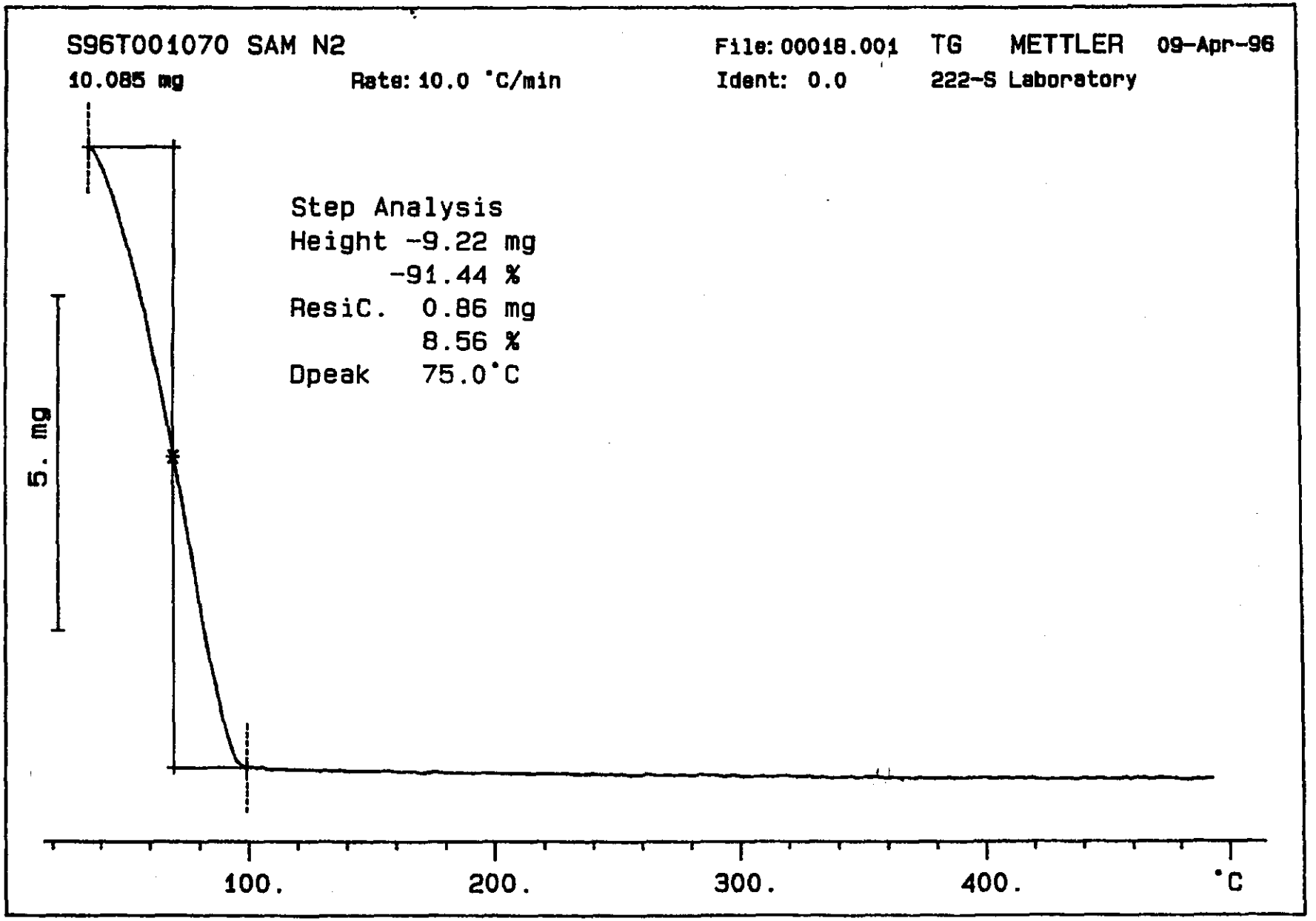
04/10/96 11:46 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 025

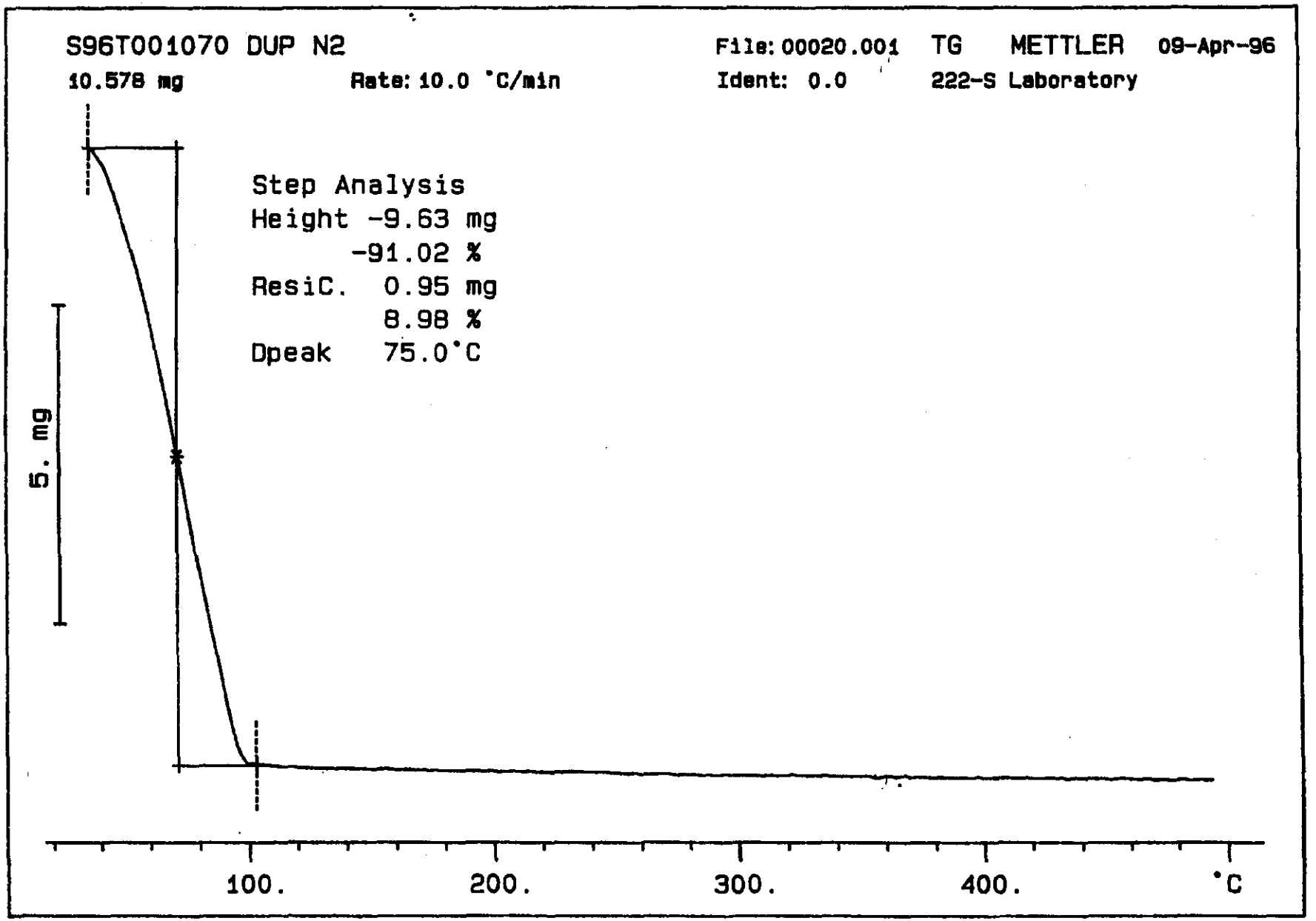

S96T001059 SAM N2
33.382 mg
Rate: 10.0 °C/min
File: 00081.001
Ident: 0.0
TG METTLER 29-Mar-96
222-S Laboratory
Step Analysis
Height -7.10 mg
-21.25 %
ResiC. 26.29 mg
78.75 %
Dpeak 181.0°C
5. mg
100.
200.
300.
400.
°C


TGA-STD 100NC2
13.231 mg
Rate: 10.0 °C/min
File: 00001.001
Ident: 0.0
TG
METTLER
30-Mar-96
222-S Laboratory
Step Analysis
Height -7.87 mg
-59.44 %
ResiC. 5.37 mg
40.56 %
Dpeak 124.2°C
5. mg
50.
100.
150.
200.
°C
Blandina Valenzuela for RD Meyers
4/15/96


S96T001059 DUP N2
25.225 mg
Rate: 10.0 °C/min
File: 00003.001
TG METTLER 30-Mar-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -5.36 mg
-21.26 %
ResiC. 19.86 mg
78.74 %
Dpeak 129.0°C
2. mg
100.
200.
300.
400.
°C


TGA STD 75N8-A
6.019 mg
Rate: 10.0 °C/min
File: 00016.001
Ident: 0.0
TG METTLER 09-Apr-96
222-S Laboratory
Step Analysis
Height -3.68 mg
-61.10 %
ResiC. 2.32 mg
38.48 %
Dpeak 59.2°C
2. mg
50.
100.
150.
200.
°C
Blandina Valenzuela for RD Meyers


S96T001070 SAM N2
10.085 mg
Rate: 10.0 °C/min
File: 00018.001
TG METTLER 09-Apr-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -9.22 mg
-91.44 %
ResiC. 0.86 mg
8.56 %
Dpeak 75.0°C
5. mg
100.
200.
300.
400.
°C


S96T001070 DUP N2
10.578 mg
Rate: 10.0 °C/min
File: 00020.001
Ident: 0.0
TG
METTLER
09-Apr-96
222-S Laboratory
Step Analysis
Height -9.63 mg
-91.02 %
ResiC. 0.95 mg
8.98 %
Dpeak 75.0°C
5. mg
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
04/08/96 12:09

LABCORE Data Entry Template for Worklist# 6656

Analyst: RDM **Instrument:** TGA01 3 **Book #** 75N8A

Method: LA-514-114 Rev/Mod C-1

Worklist Comment: U-107 FOR TGA (RUN UNDER N2 PLEASE!) RTS!

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-03	SOLID	59.2	60.40	N/A	%
96000126	U-107	2	SAMPLE	S96T001128	0		TGA-03	SOLID	N/A	18.94		%
96000126	U-107	3	DUP	S96T001128	0		TGA-03	SOLID	18.94	24.24	N/A	%

Final page for worklist # 6656

See attached for signatures
Analyst Signature Date 4-8-96

[signature] 4-9-96
Analyst Signature Date

Verified by H Anastor 4-11-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
03/18/96 14:41

LABCORE Data Entry Template for Worklist# 6656

Analyst: RDM **Instrument:** TGA01 **Book #** 75NBA

Method: LA-560-112 Rev/Mod C-1

Worklist Comment: U-107 FOR TGA (RUN UNDER N2 PLEASE!) RTS!

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID			N/A	%
96000126	U-107	2	SAMPLE	S96T001128	0		TGA-01	SOLID	N/A			%
96000126	U-107	3	DUP	S96T001128	0		TGA-01	SOLID			N/A	%

Final page for worklist # 6656

RDM 4/5/96

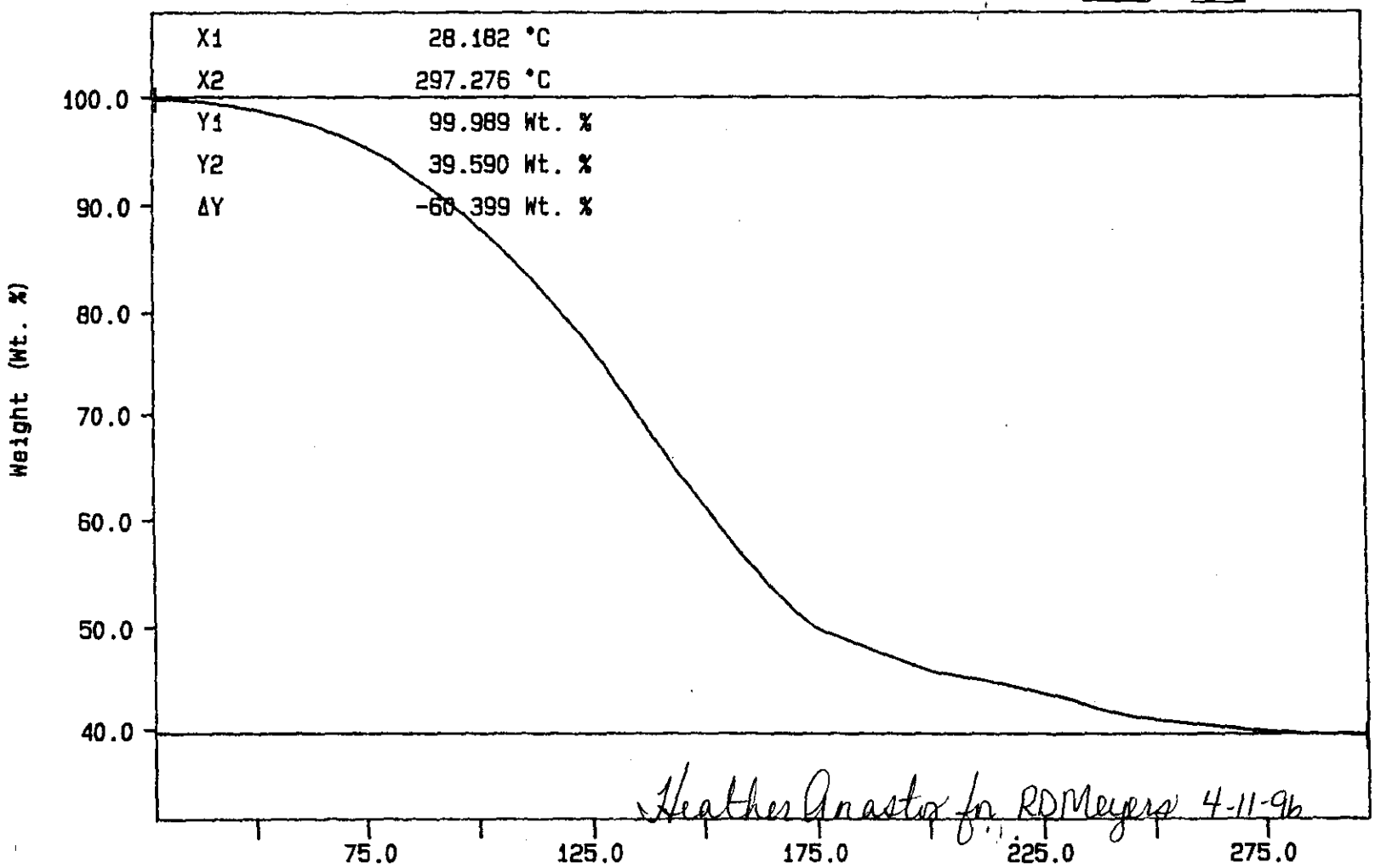
Analyst Signature **Date** **Analyst Signature** **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: TGA
File info: TER040401 Thu Apr 4 07:03:08 1996
Sample Weight: 22.156 mg
TGA STD 75N8-A

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2248 TO 2250



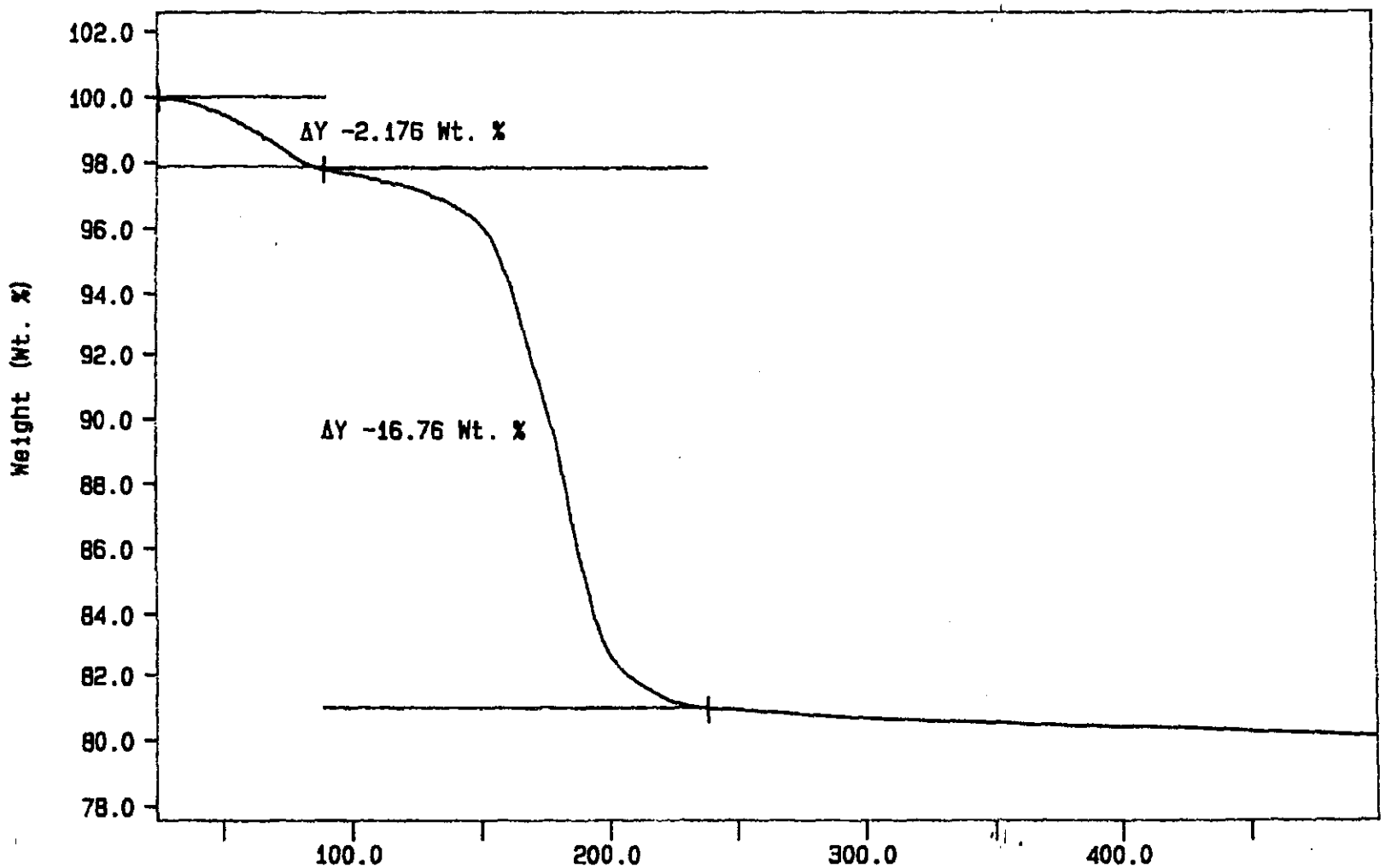
Heather Anastor for RDMeyers 4-11-96

N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Fri Apr 5 01:21:22 1996

2-248

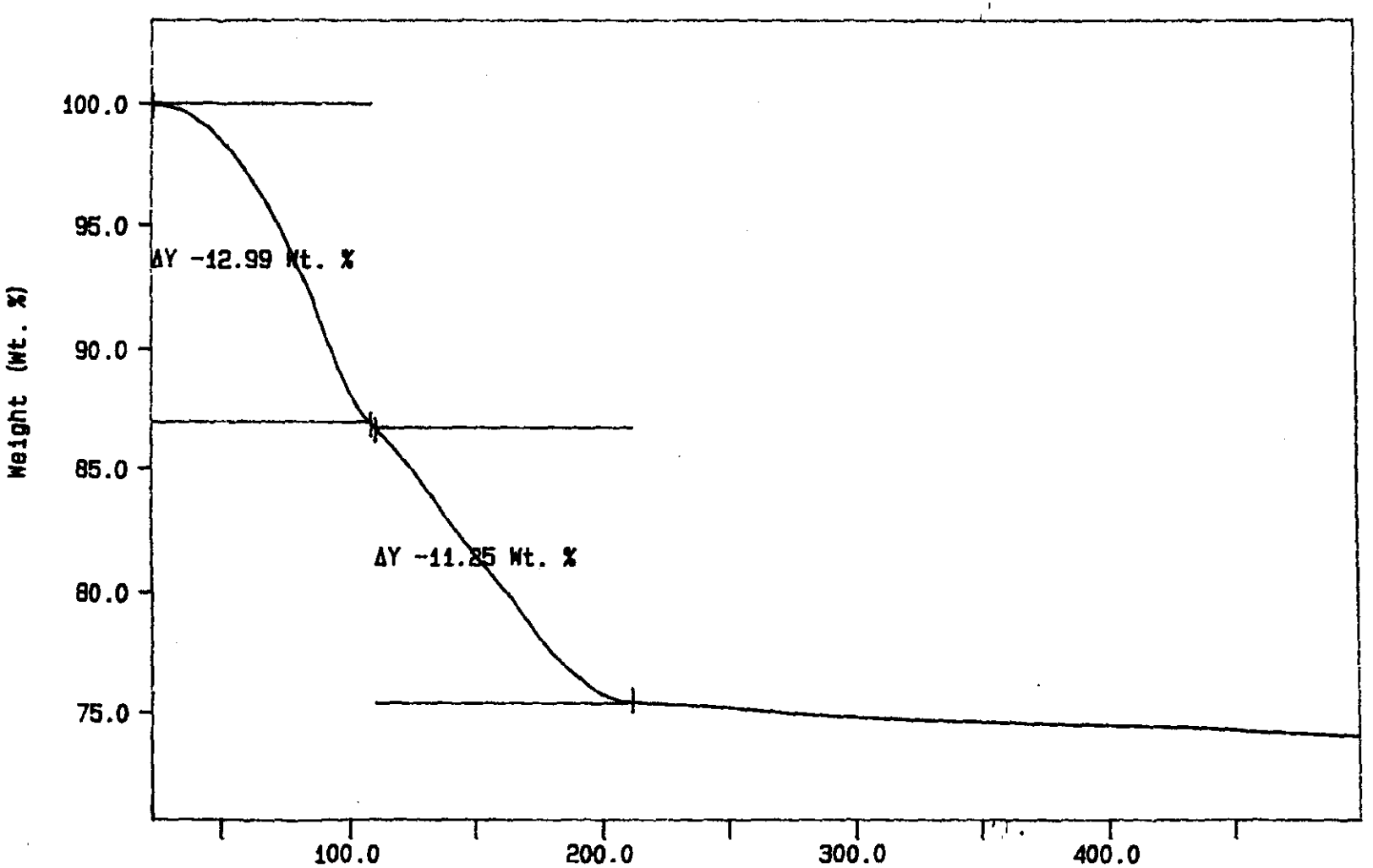
Curve 1: TGA
File info: sam040401 Thu Apr 4 22:29:48 1996
Sample Weight: 32.221 mg
S96T001128



10C/MIN N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

rd meyers
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Apr 8 11:29:47 1996

Curve 1: TGA
File info: sam040501 Fri Apr 5 01:54:25 1996
Sample Weight: 9.630 mg
S96T001128 DUP



10C/MIN N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

rd meyers
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Apr 8 11:42:43 1996

04/08/96 14:53 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 013

worklistrpt Version 2.1 05/15/95
04/23/96 11:30

LABCORE Data Entry Template for Worklist# 6758

Analyst: PJM **Instrument:** TGA0 1 **Book #** 82N8A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 FOR TGA-01 PLEASE RUN UNDER N2 RTS!

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.2	58.64 *	N/A	%
96000085	U-107	2	SAMPLE	S96T001159	0		TGA-01	SOLID	N/A	18.01		%
96000085	U-107	3	DUP	S96T001159	0		TGA-01	SOLID	18.01	21.43	N/A	%
96000085	U-107	4	TRIPL	S96T001159	0		TGA-01	SOLID	18.01	21.25	N/A	%

Final page for worklist # 6758

See attached for signatures
Analyst Signature **Date** 4/23/96

TE Wright 4/24/96
Analyst Signature **Date**

Verified by A Anastos 4-25-96

Data Entry Comments: Sample results are the sum of two weight loss steps

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 6758

Analyst: RMcCown **Instrument:** TGA0 _____ **Book #** 82N8A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 FOR TGA-01 PLEASE RUN UNDER N2 RTS!

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID			N/A	%
96000085	U-107	2	SAMPLE	S96T001159	0		TGA-01	SOLID	N/A			%
96000085	U-107	3	DUP	S96T001159	0		TGA-01	SOLID			N/A	%

Final page for worklist # 6758

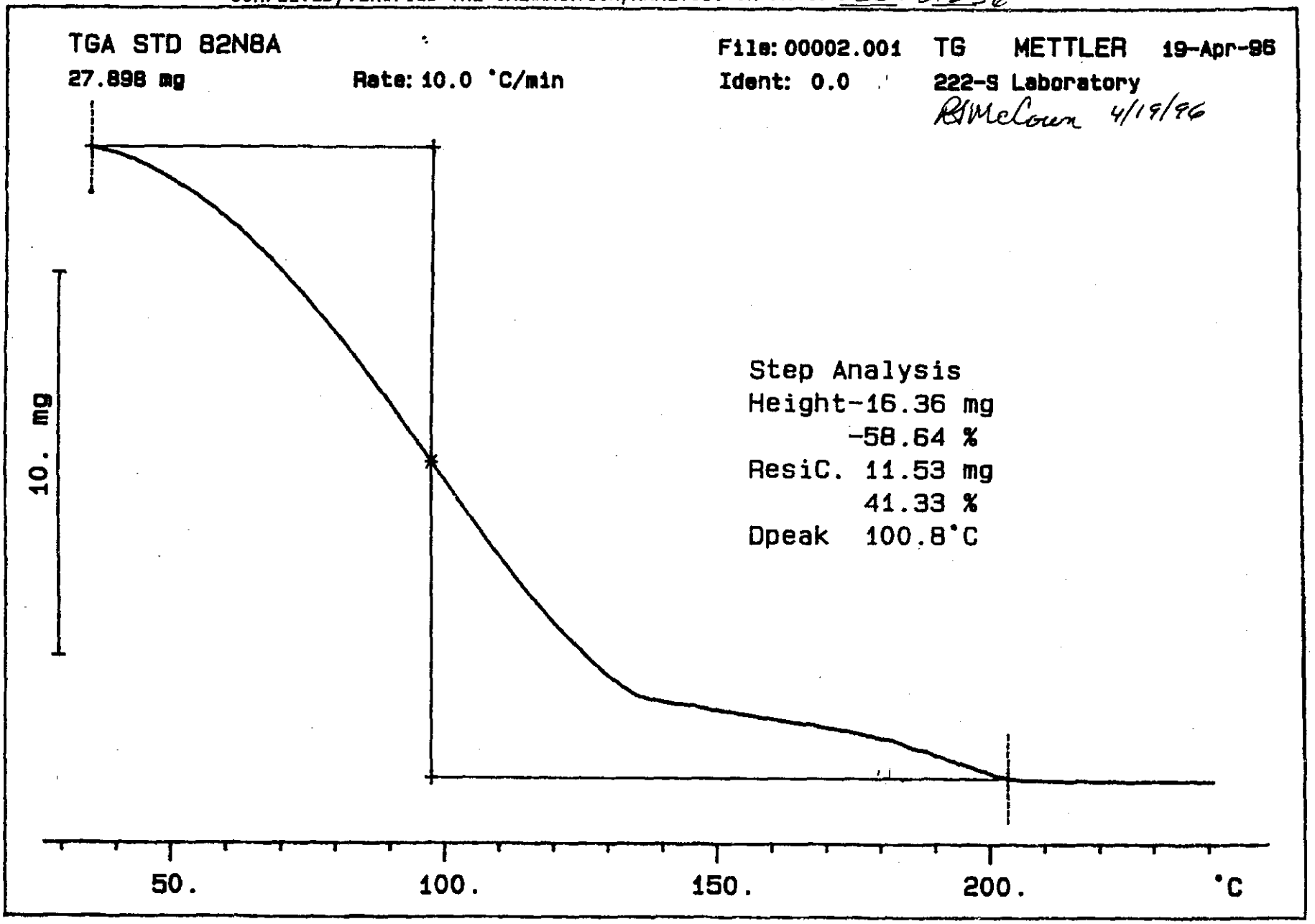
RMcCown 4/19/96
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

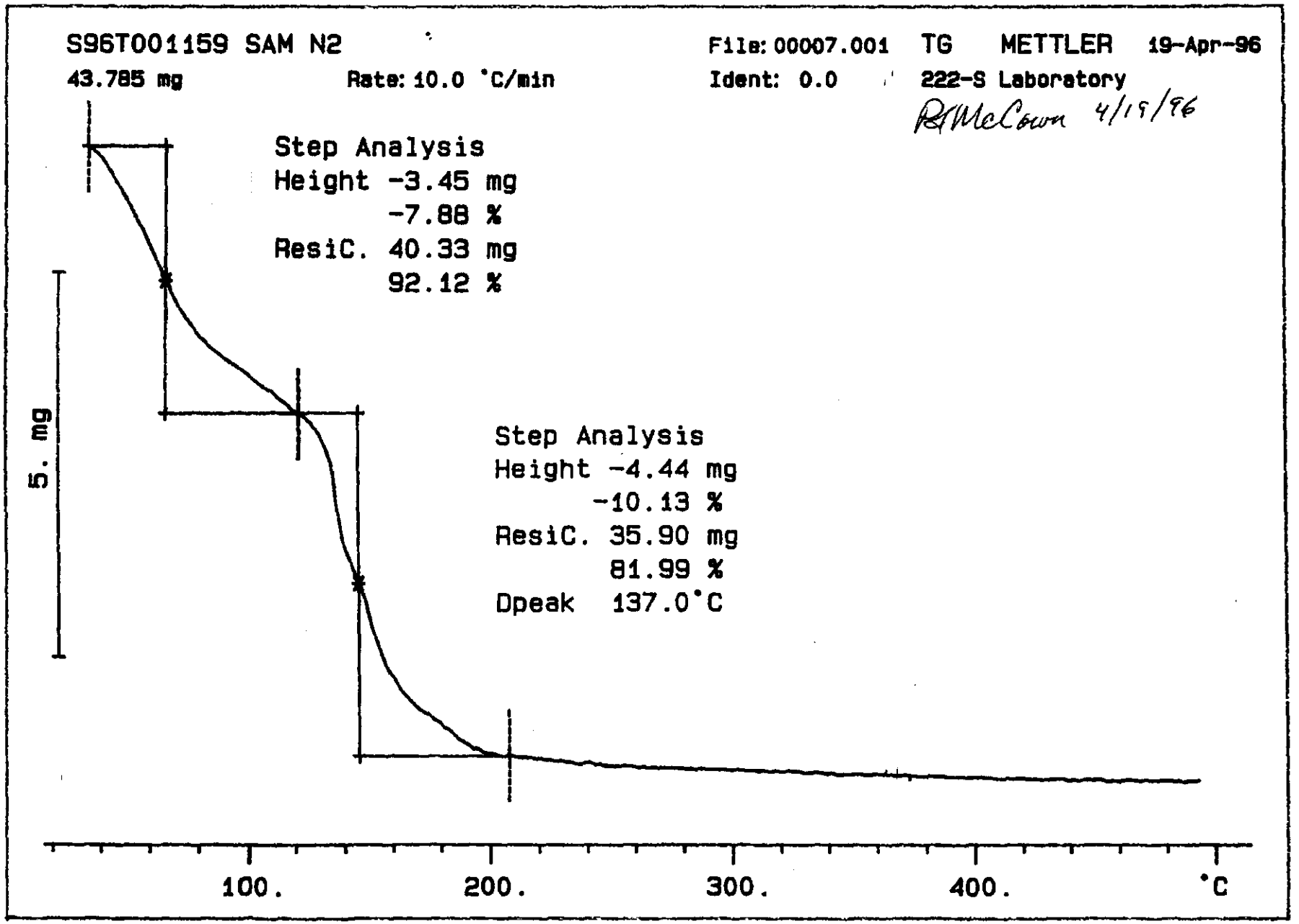
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

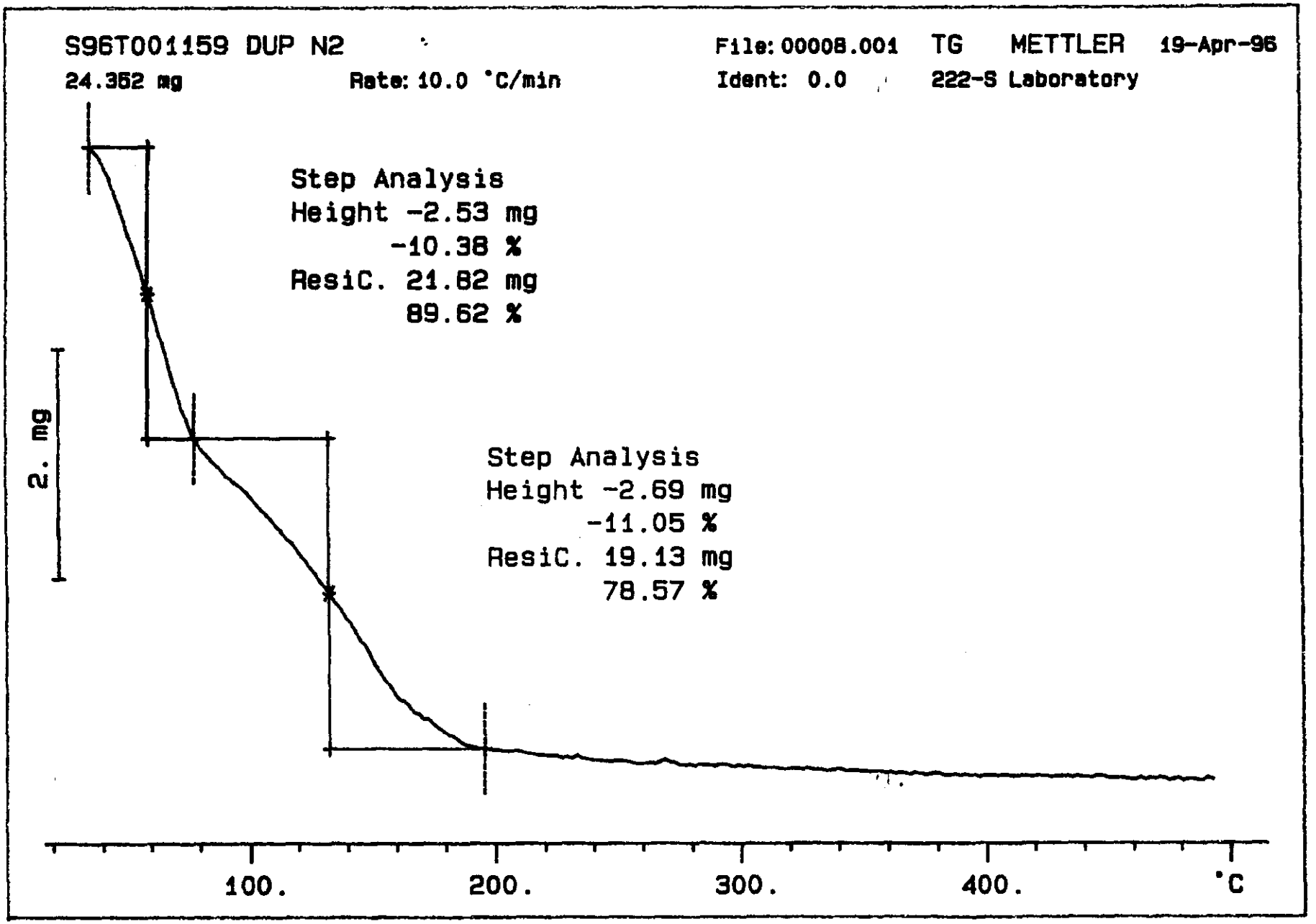
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-253 TO 2-256



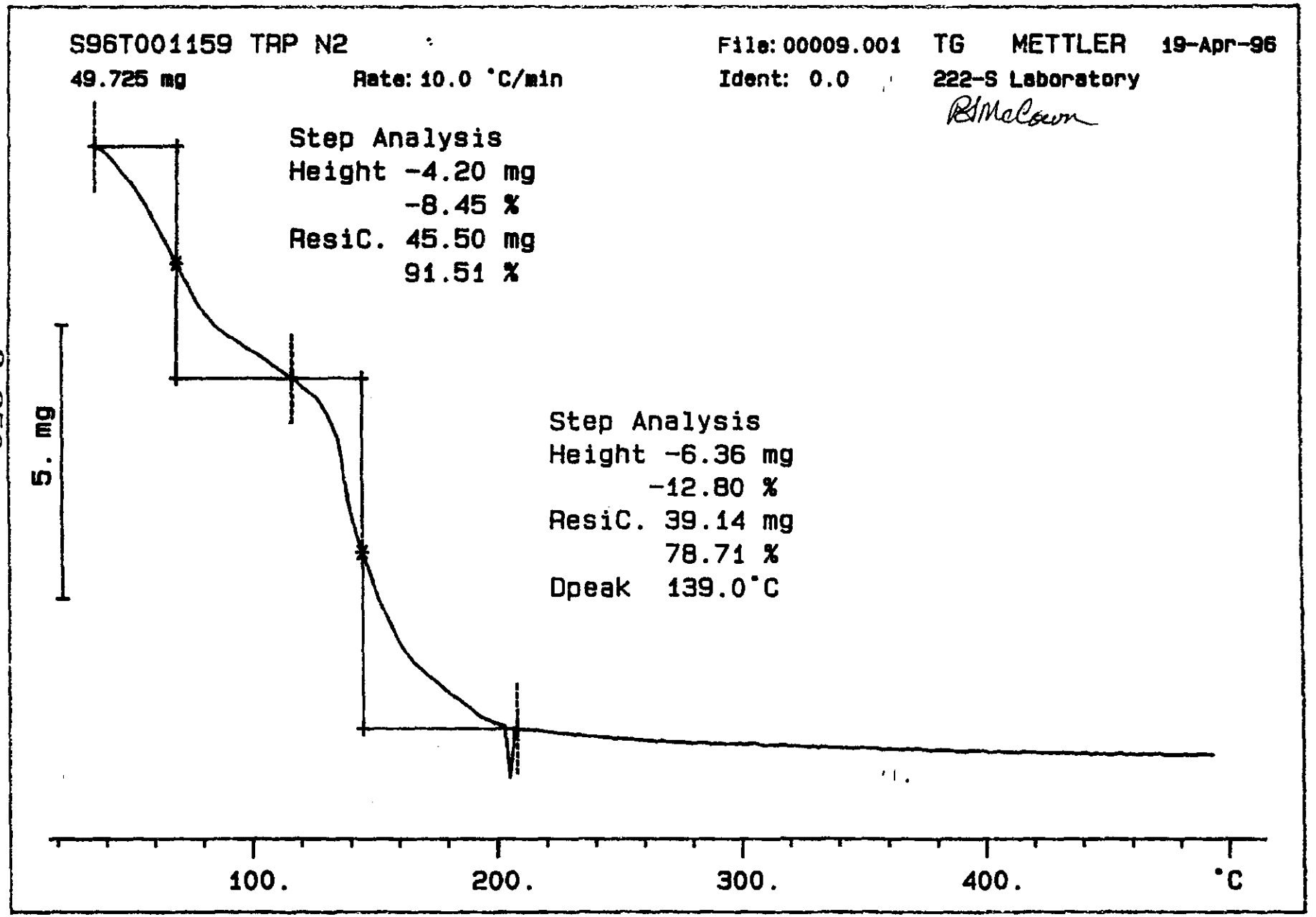
04/24/96 07:31 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 023

2-254





04/24/96 07:32 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 024



04/24/96 07:32 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 025

worklistrpt Version 2.1 05/15/95
04/17/96 10:34

LABCORE Data Entry Template for Worklist# 7585

Analyst: SMF **Instrument:** TGA0 3 **Book #** 82N8A

Method: LA-514-114 Rev/Mod C-1

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-03	LIQUID	59.2	58.97	N/A	%
96000126	U-107	2 SAMPLE	S96T001119	0		TGA-03	LIQUID	N/A	51.01		%
96000126	U-107	3 DUP	S96T001119	0		TGA-03	LIQUID	51.01	51.14	N/A	%
96000126	U-107	4 SAMPLE	S96T001120	0		TGA-03	LIQUID	N/A	89.27		%
96000126	U-107	5 DUP	S96T001120	0		TGA-03	LIQUID	89.27	89.10	N/A	%
96000126	U-107	6 SAMPLE	S96T001121	0		TGA-03	LIQUID	N/A	91.70		%
96000126	U-107	7 DUP	S96T001121	0		TGA-03	LIQUID	91.70	92.22	N/A	%

Final page for worklist # 7585

See attached for signatures
Analyst Signature **Date** 4/17/96 BDY

RSBal 4-19-96
Analyst Signature **Date**

Verified by HAnastos 4-22-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
04/11/96 09:54

LABCORE Data Entry Template for Worklist# 7585

Analyst: SMF **Instrument:** TGA0 **Book #** 82N8A

Method: LA-560-112 Rev/Mod

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	LIQUID			N/A	%
96000126	U-107	2	SAMPLE	S96T001110	0		TGA-01	LIQUID	N/A			%
96000126	U-107	3	DUP	S96T001110	0		TGA-01	LIQUID			N/A	%
96000126	U-107	4	SAMPLE	S96T001119	0		TGA-01	LIQUID	N/A			%
96000126	U-107	5	DUP	S96T001119	0		TGA-01	LIQUID			N/A	%
96000126	U-107	6	SAMPLE	S96T001120	0		TGA-01	LIQUID	N/A			%
96000126	U-107	7	DUP	S96T001120	0		TGA-01	LIQUID			N/A	%
96000126	U-107	8	SAMPLE	S96T001121	0		TGA-01	LIQUID	N/A			%
96000126	U-107	9	DUP	S96T001121	0		TGA-01	LIQUID			N/A	%

Final page for worklist # 7585

Susie M. Fulton 4-16-96
Analyst Signature **Date**

Analyst Signature **Date**

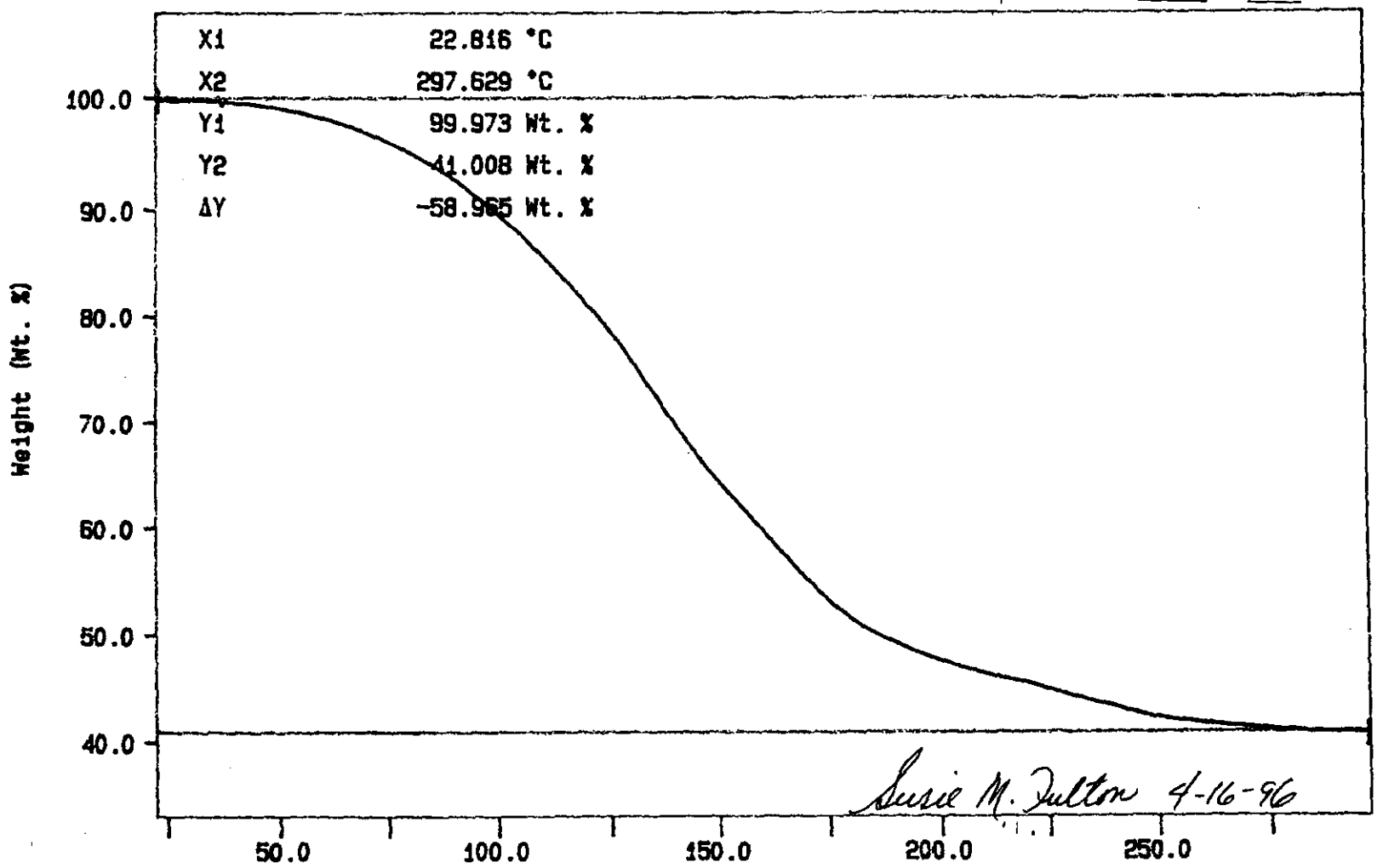
Other instrument
Was used.
4/17/96
BJSV

Data Entry Comments: S96T001110 - EMPTY

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: TGA
File info: TER041601 Tue Apr 16 07:24:33 1996
Sample Weight: 24.029 mg
TGA STD 82N8-A

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES ~~2259~~ TO 2265



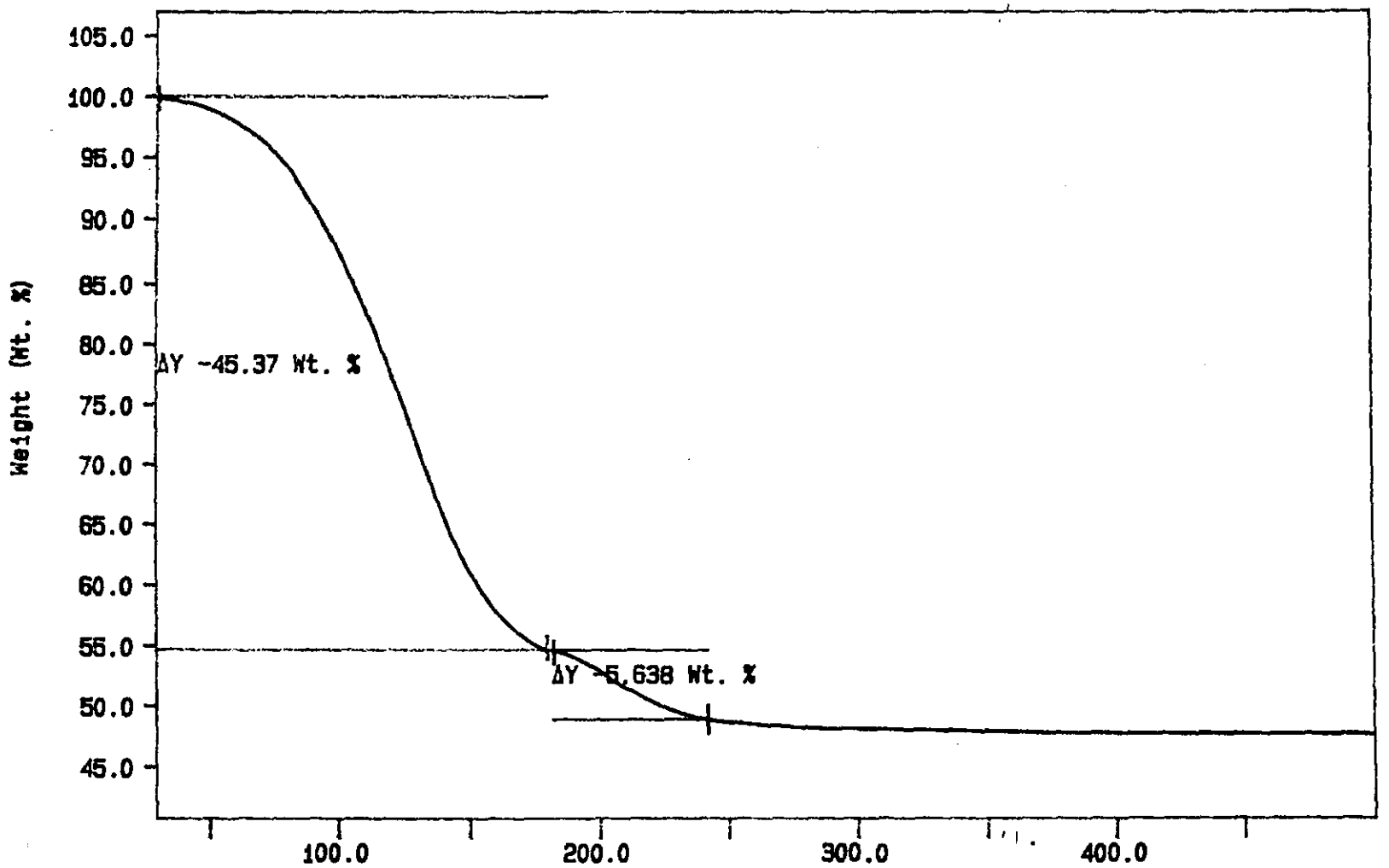
Susie M. Fulton 4-16-96

N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 16 07:25:27 1996

04/17/96 14:35 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 016

Curve 1: TGA
File info: SAM041601 Tue Apr 16 09:22:17 1996
Sample Weight: 14.242 mg
S96T001119



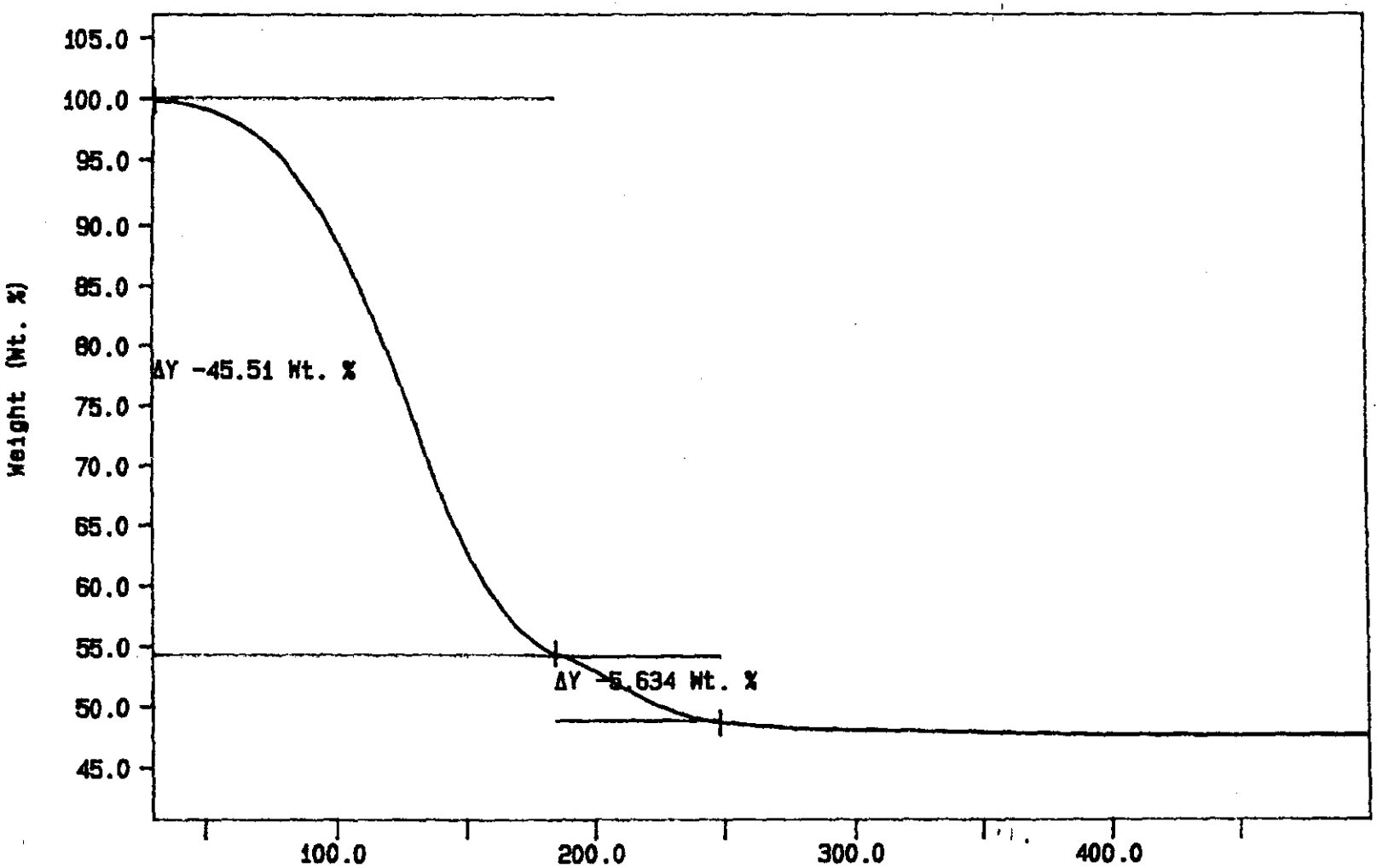
10C/MIN N2
TEMP1: 30.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 800.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 16 09:29:43 1996

04/17/96 14:36 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 017

04/17/98 14:36 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W ☑018

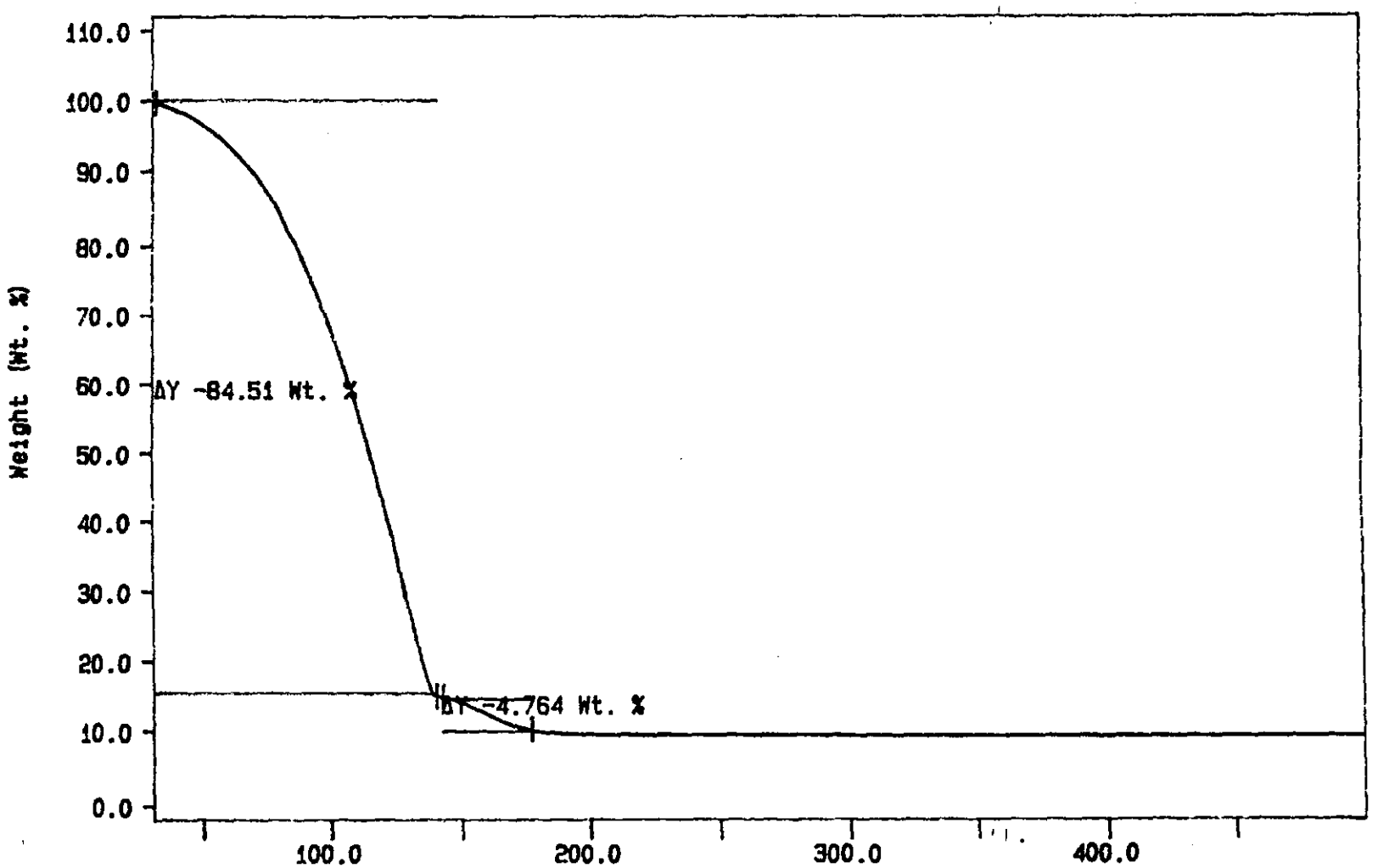
Curve 1: TGA
File info: SAM041602 Tue Apr 16 10:29:17 1996
Sample Weight: 15.617 mg
S96T001119 DUP



10C/MIN N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 16 10:31:41 1996

Curve 1: TGA
File info: SAM041603 Tue Apr 16 11:35:14 1996
Sample Weight: 11.199 mg
S96T001120

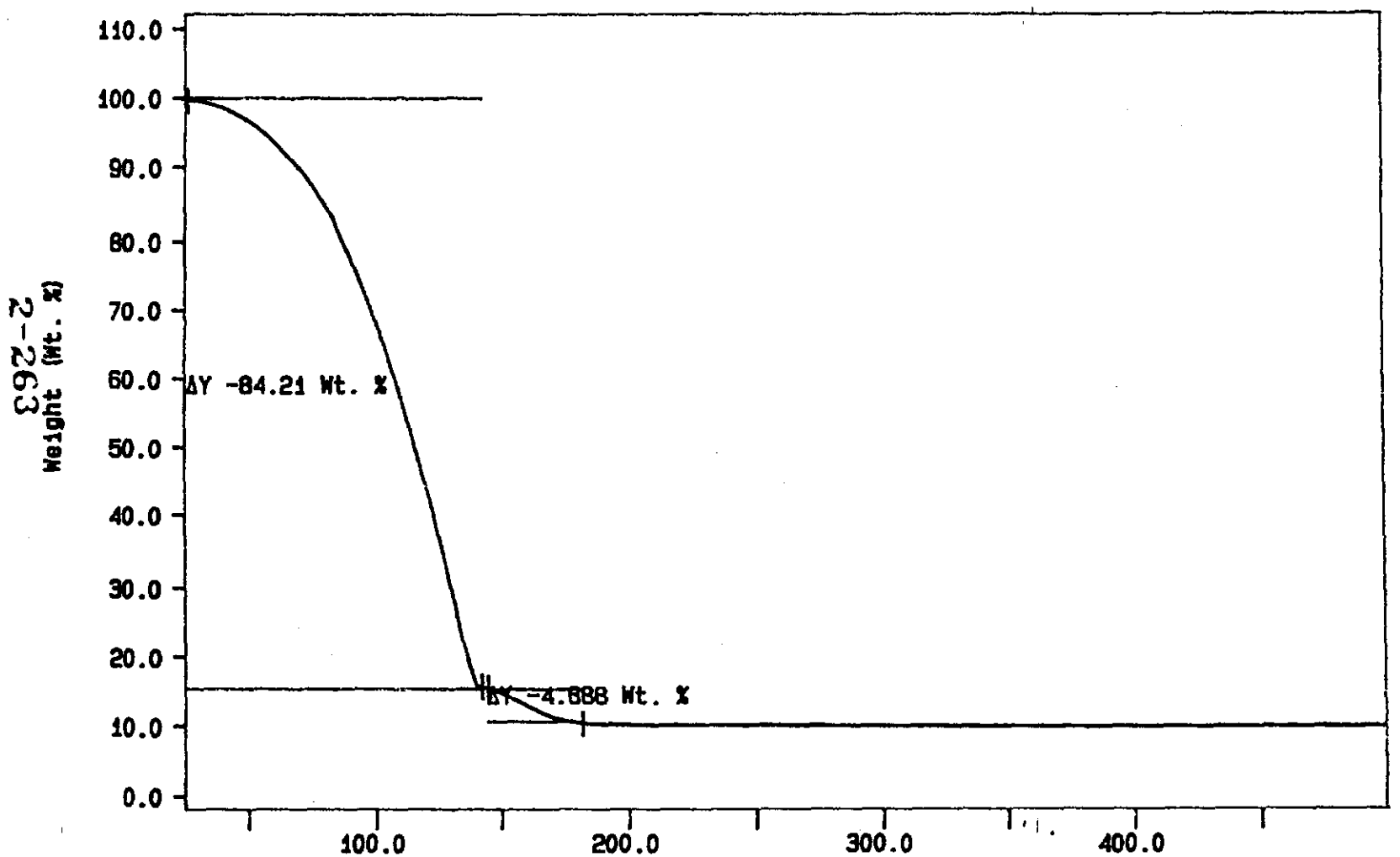


10C/MIN N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 16 13:07:01 1996

04/17/96 14:37 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 020

Curve 1: TGA
File info: SAM041604 Tue Apr 16 13:42:15 1996
Sample Weight: 11.262 mg
S96T001120 DUP



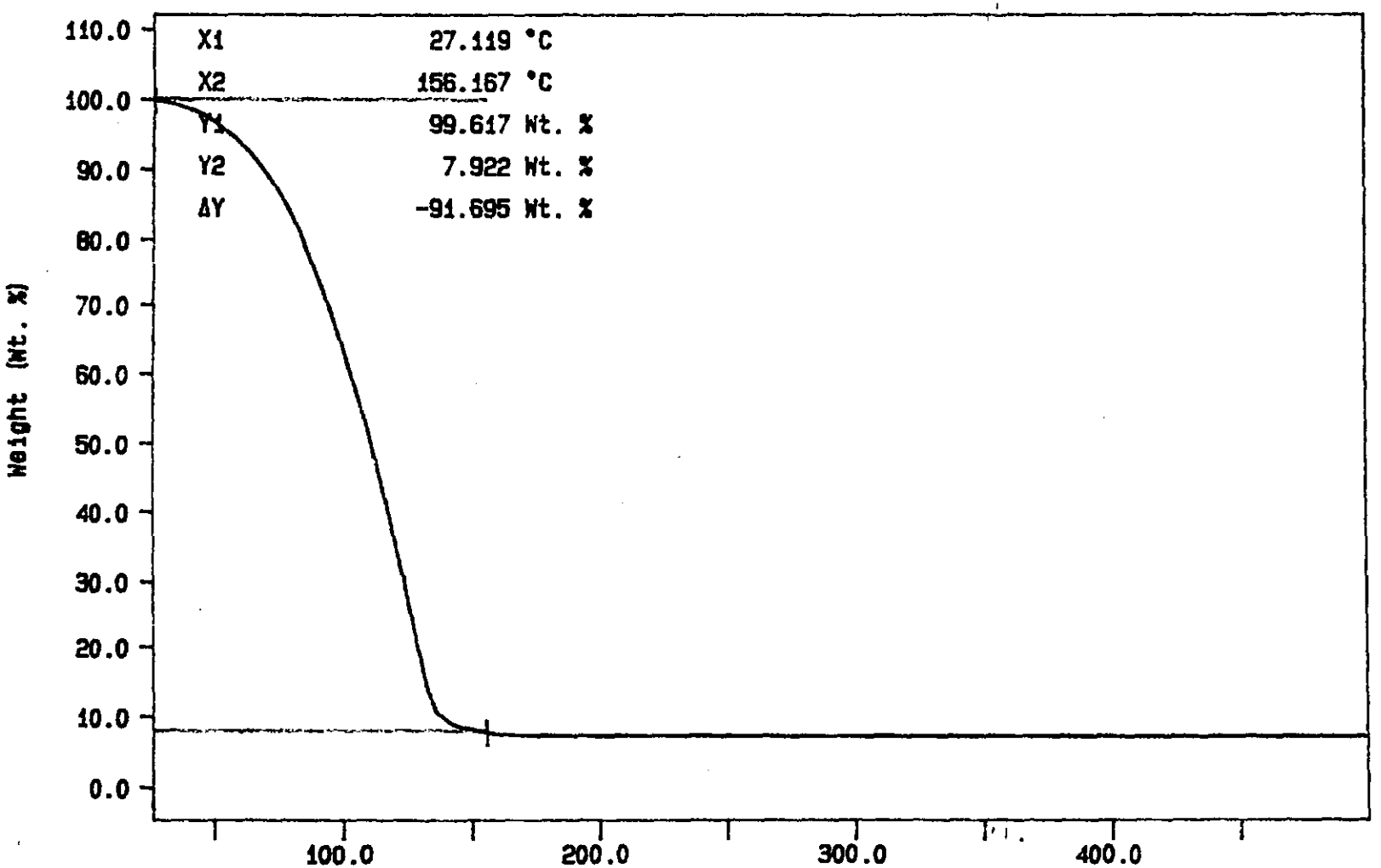
2-263

10C/MIN N2
TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 16 13:59:19 1996

04/17/96 14:38 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 021

Curve 1: TGA
File info: SAM041605 Tue Apr 16 14:53:41 1996
Sample Weight: 10.095 mg
S96T001121

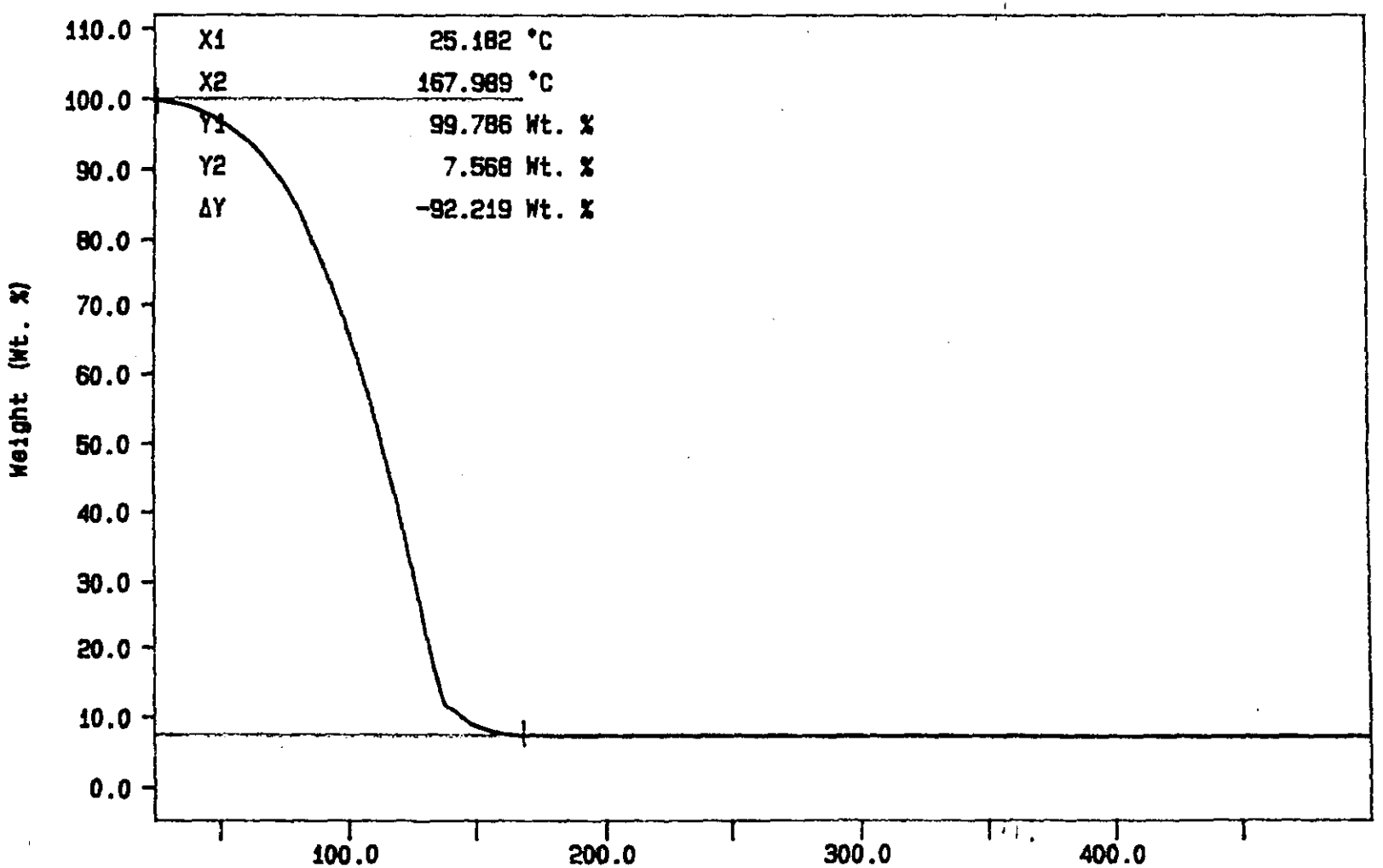


10C/MIN N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 16 15:36:38 1996

04/17/96 14:38 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W ☑022

Curve 1: TGA
File info: SAM041606 Tue Apr 16 16:28:23 1996
Sample Weight: 10.279 mg
S96T001121 DUP



10C/MIN N2
TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Apr 16 16:34:29 1996

worklistrpt Version 2.1 05/15/95
04/22/96 10:42

LABCORE Data Entry Template for Worklist# 7908

Analyst: SMF **Instrument:** TGA0 1 **Book #** 82N8A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-07 for tga-01 please run under N2 RTS!

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.2	58.72*	N/A	%
96000422	U-107	2	SAMPLE	S96T001867	0		TGA-01	SOLID	N/A	49.90		%
96000422	U-107	3	DUP	S96T001867	0		TGA-01	SOLID	49.90	49.74	N/A	%

Final page for worklist # 7908

Analyst Signature Date 4-29-96

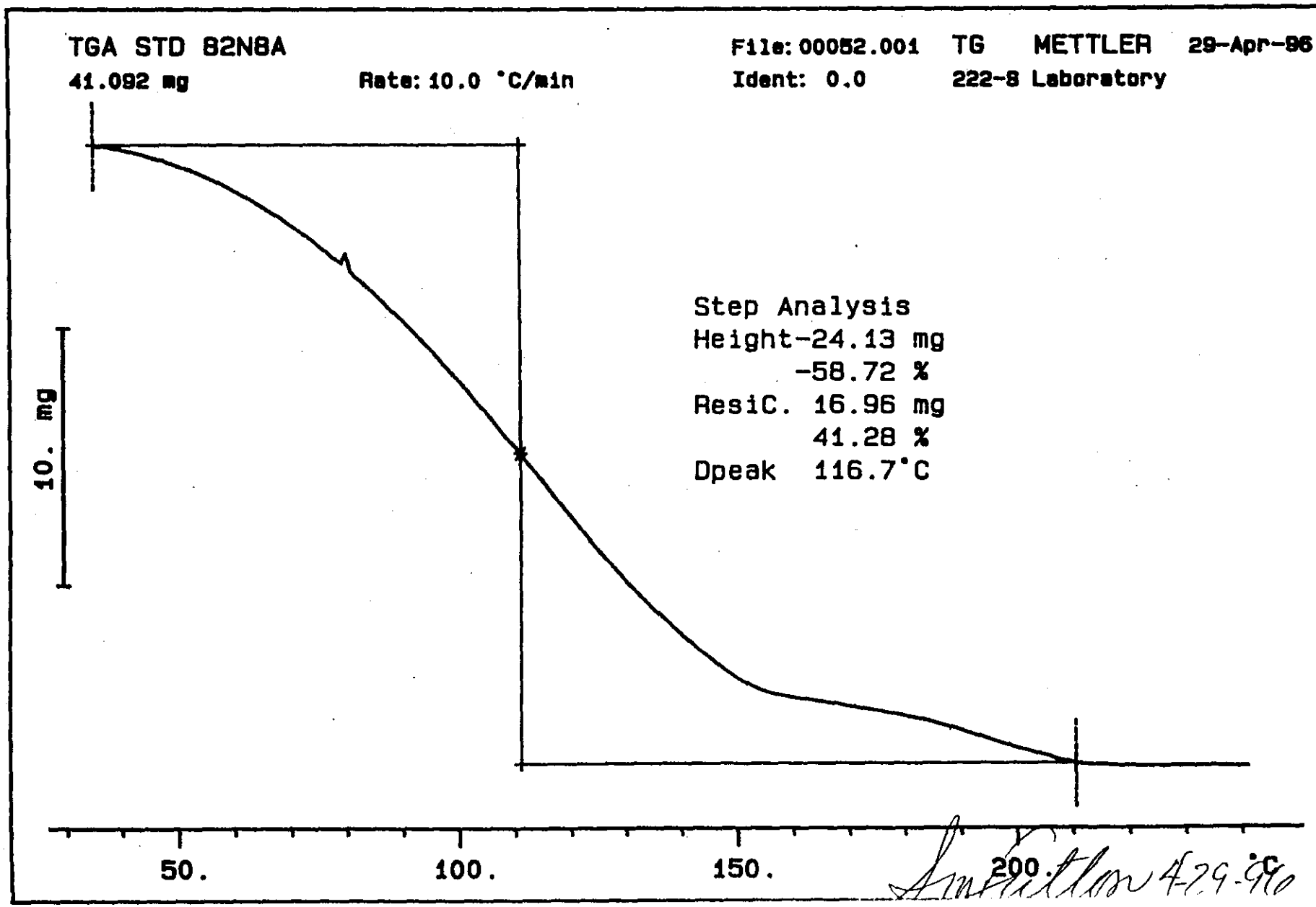
Analyst Signature Date 5-4-96

Verified by D Anastos 5-6-96

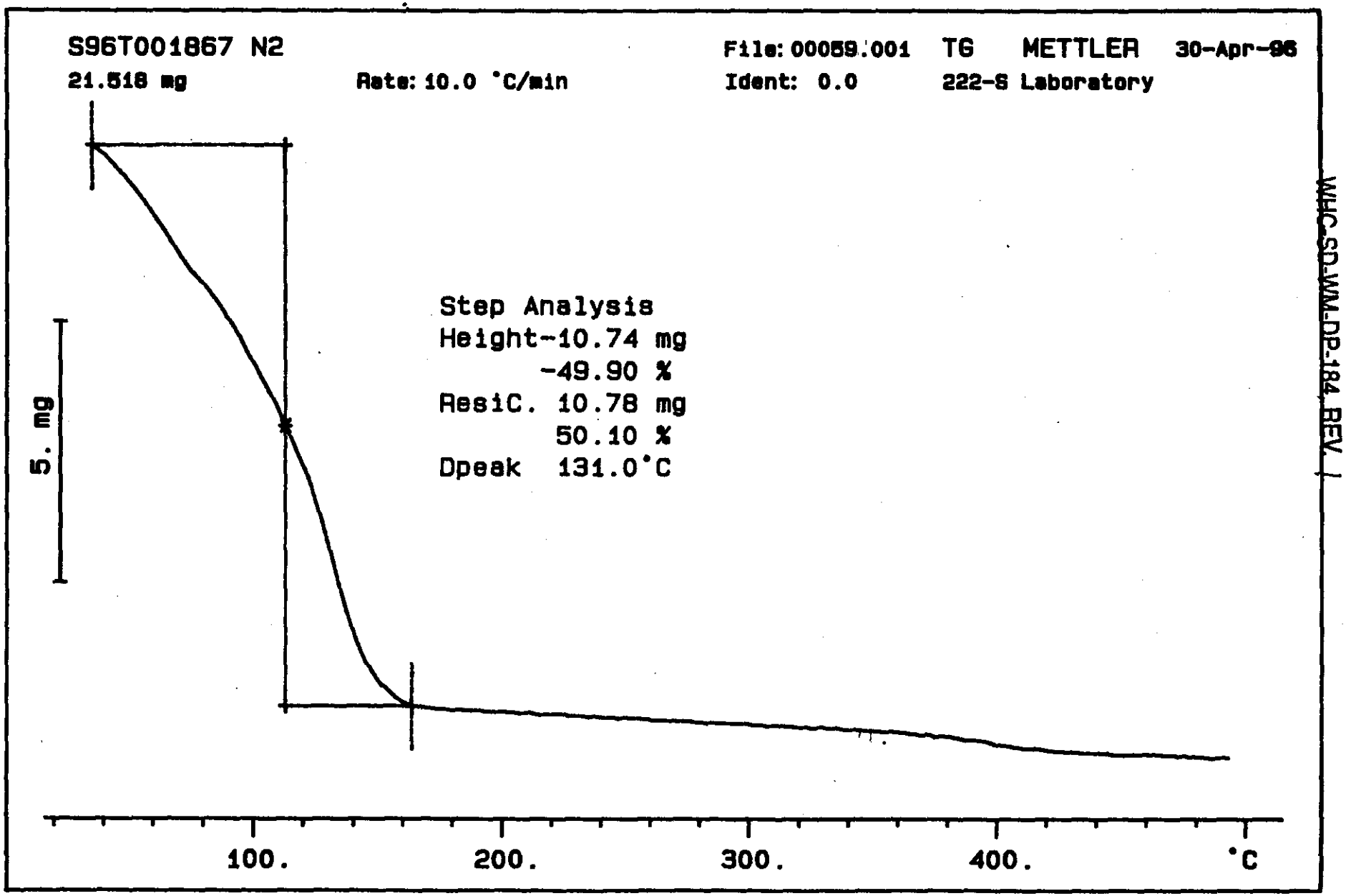
Data Entry Comments:

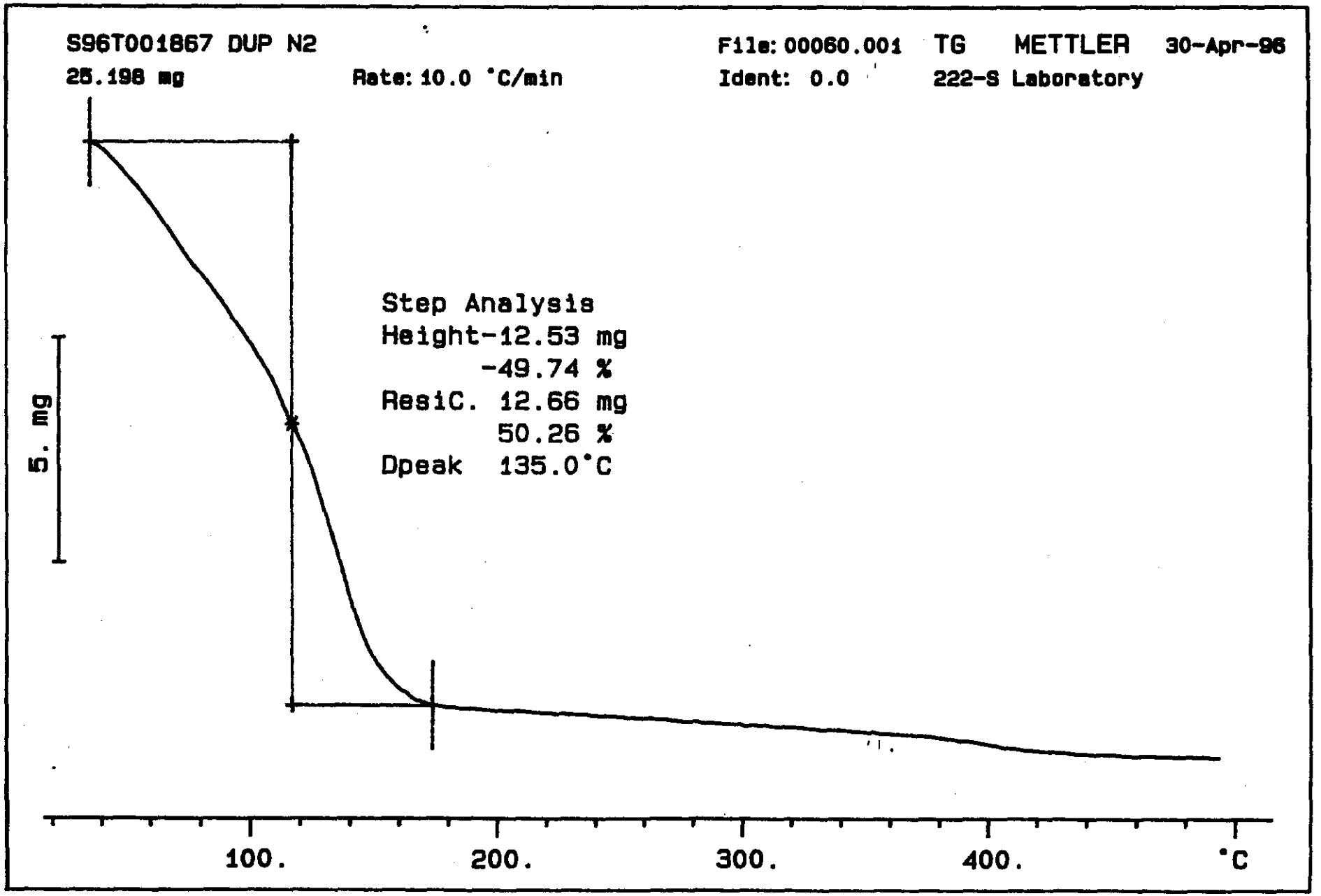
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-267 TO 2-269



Smittlow 4-29-96


S96T001867 N2
21.518 mg
Rate: 10.0 °C/min
File: 00059.001
TG
METTLER
30-Apr-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -10.74 mg
-49.90 %
ResiC. 10.78 mg
50.10 %
Dpeak 131.0°C
5. mg
100.
200.
300.
400.
°C


S96T001867 DUP N2
25.198 mg
Rate: 10.0 °C/min
File: 00060.001
TG
METTLER
30-Apr-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height-12.53 mg
-49.74 %
ResiC. 12.66 mg
50.26 %
Dpeak 135.0°C
5. mg
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
04/24/96 13:49

LABCORE Data Entry Template for Worklist# 8037

Analyst: SMF **Instrument:** TGA0 1 **Book #** 82N8-19

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	59.2	58.74	* N/A	%
96000422	U-107	2 SAMPLE	S96T001873	0		TGA-01	SOLID	N/A	4.67		%
96000422	U-107	3 DUP	S96T001873	0		TGA-01	SOLID	4.67	4.15	N/A	%

Final page for worklist # 8037

Susie M. Fulton 2-26-96
Analyst Signature **Date**

Gary [illegible] 4-29-96
Analyst Signature **Date**

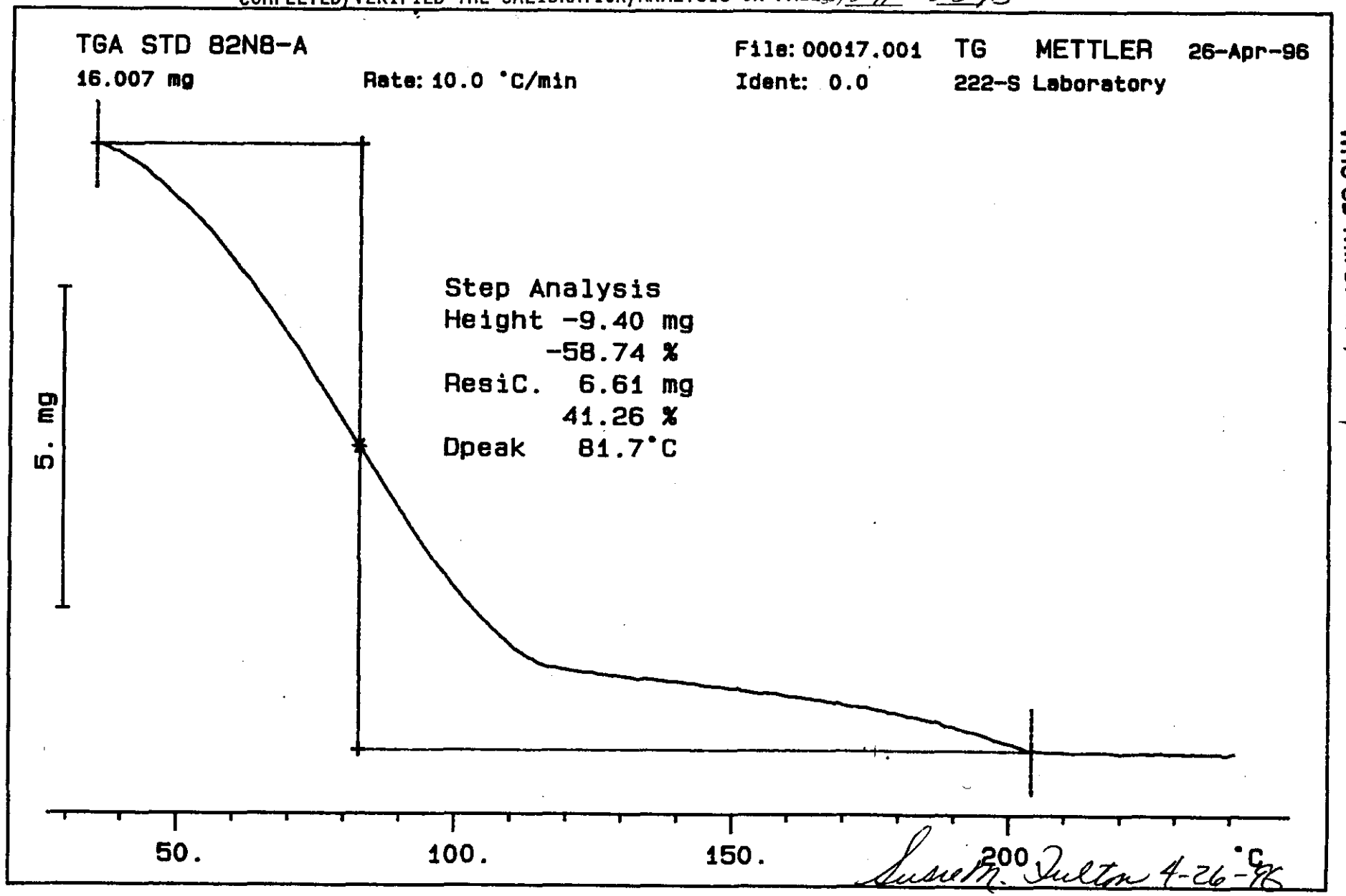
Verified by Blandina Valenzuela 4-30-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

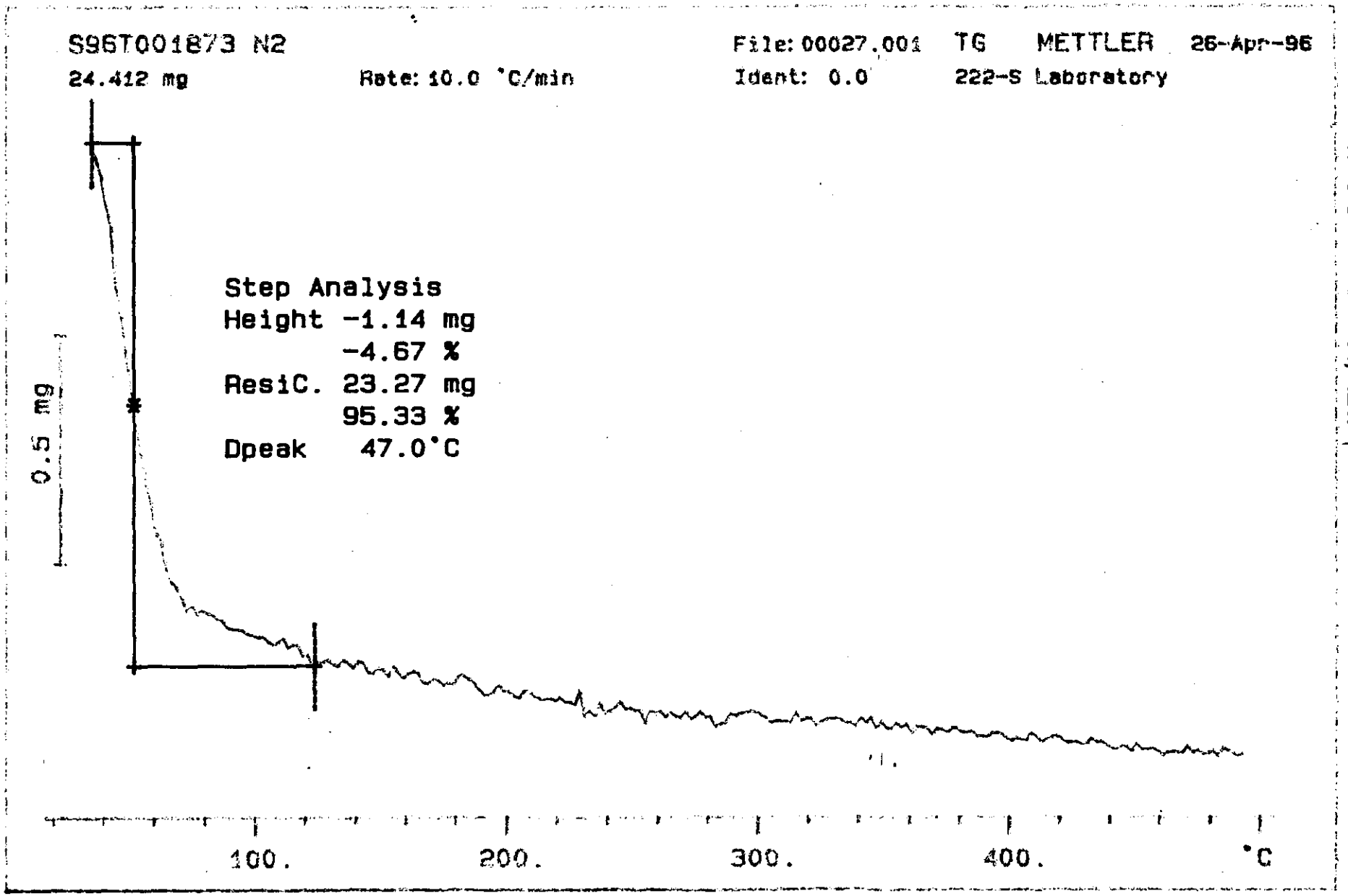
2-270

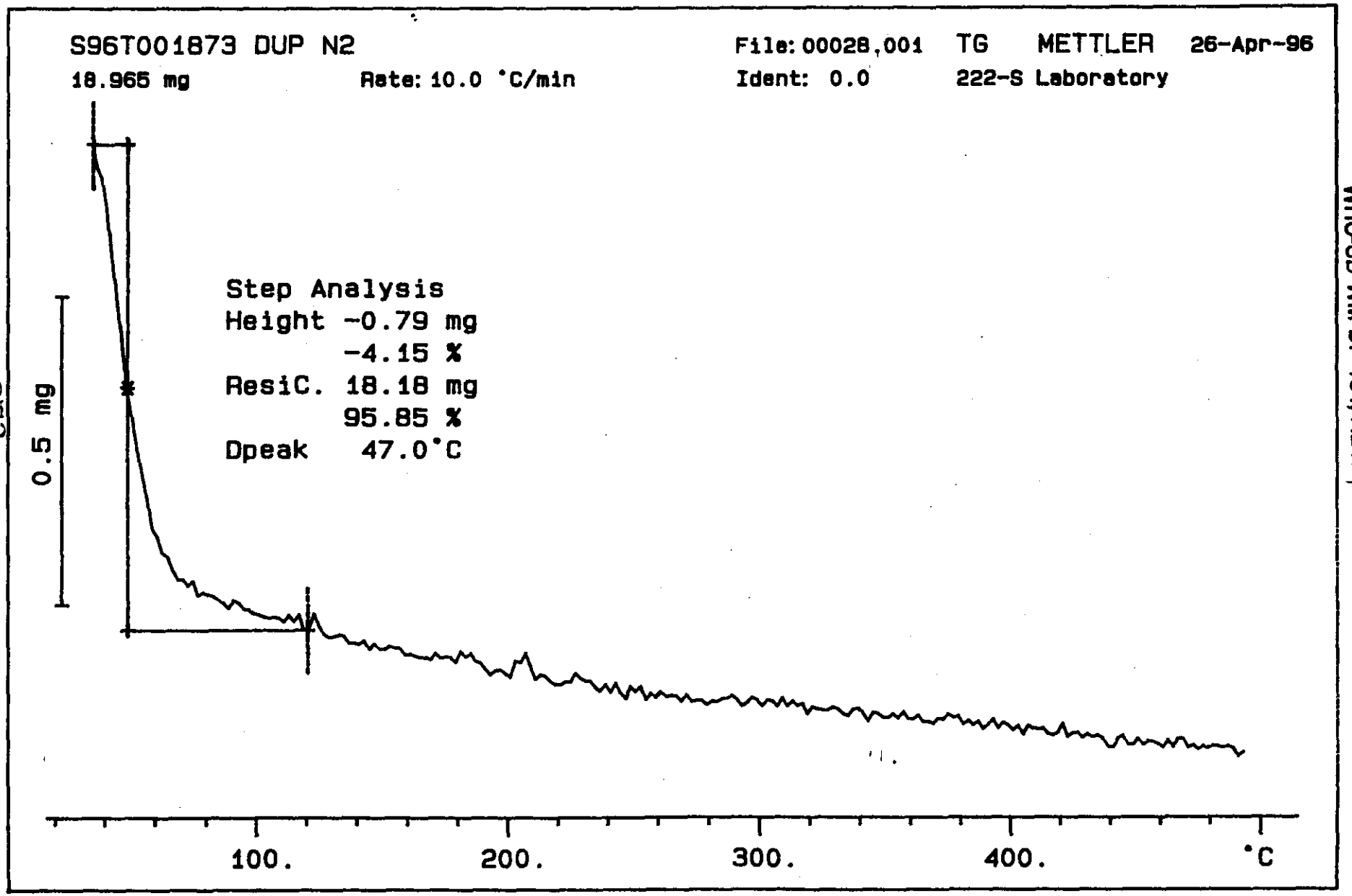
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2271 TO 2273



Susie M. Dulton 4-26-96

/96-04-29-12:22/00:-002


S96T001873 N2
24.412 mg
Rate: 10.0 °C/min
File: 00027.001
TG METTLER 26-Apr-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -1.14 mg
-4.67 %
ResiC. 23.27 mg
95.33 %
Dpeak 47.0°C
0.5 mg
5.0
100.
200.
300.
400.
°C



/96-04-29-12:22/001-004

LABCORE Data Entry Template for Worklist# 8223

Analyst: Sds **Instrument:** TGA0 1 **Book #** 82X8A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107. Run under nitrogen. new

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.2	59.02 *	N/A	%
96000422	U-107	2	SAMPLE	S96T002131	0		TGA-01	SOLID	N/A	32.41		%
96000422	U-107	3	DUP	S96T002131	0		TGA-01	SOLID	32.41	37.23	N/A	%
96000422	U-107	4	SAMPLE	S96T002132	0		TGA-01	SOLID	N/A	18.55		%
96000422	U-107	5	DUP	S96T002132	0		TGA-01	SOLID	18.55	16.45	N/A	%

Final page for worklist # 8223

[signature] 5-1-96
Analyst Signature **Date**

[signature] 5-4-96
Analyst Signature **Date**

Verified by HAnaston 5-6-96

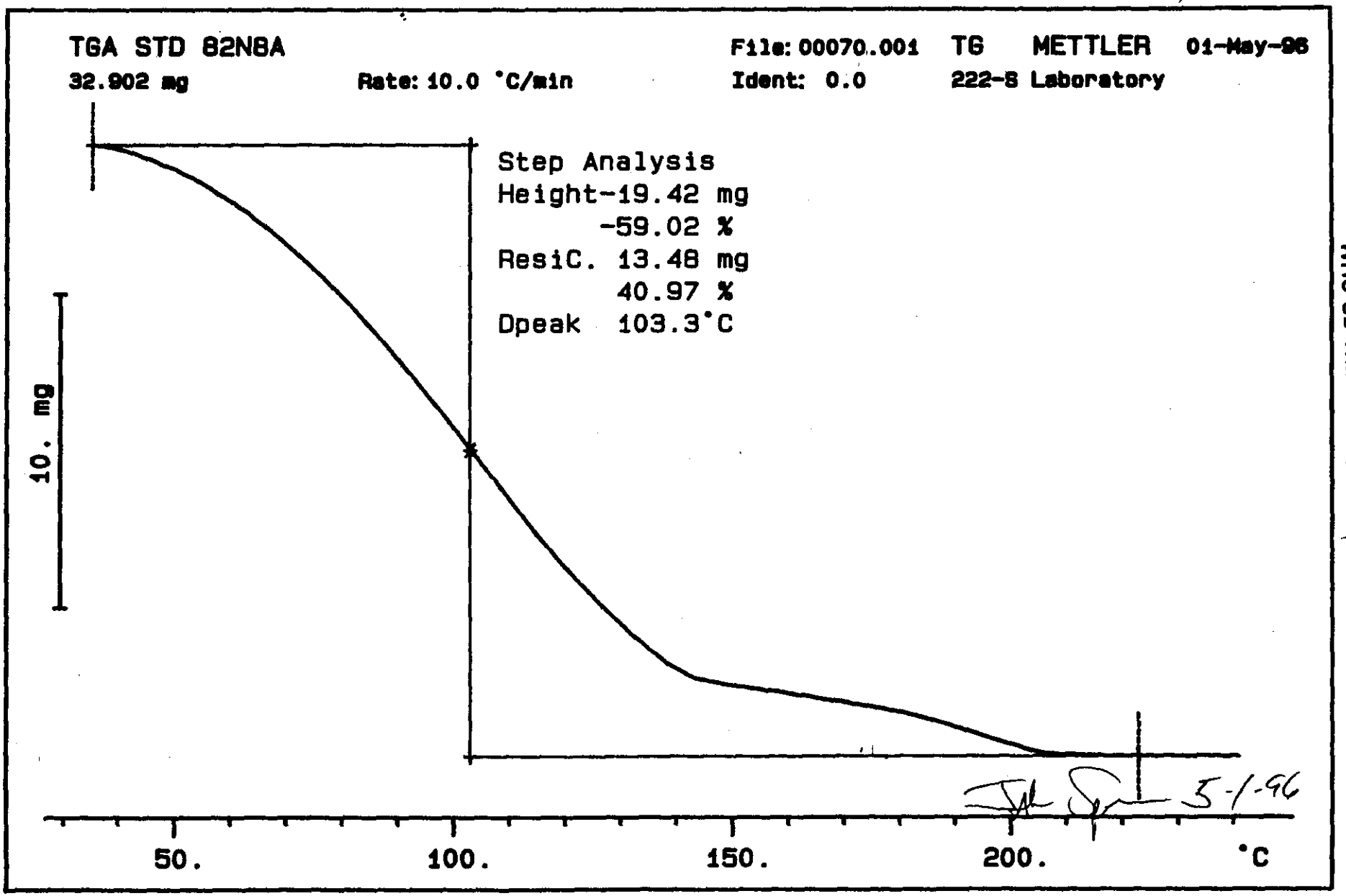
S96T002131 also produced a second weight loss step of 2.16%. However, the dup only showed one weight loss step.

S96T002132 results are the sum of three weight loss steps (8.78, 1.55, + 8.22%).

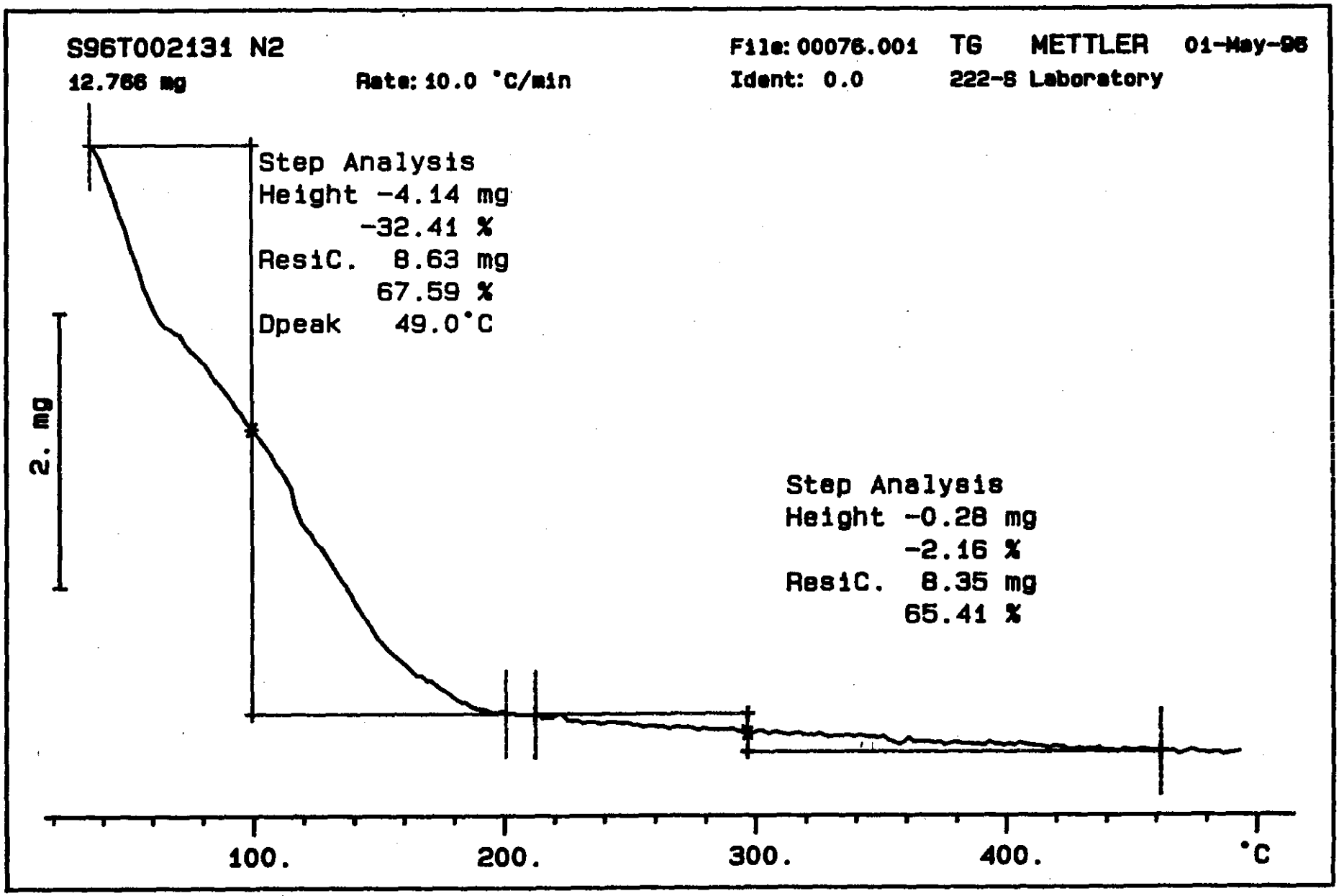
Data Entry Comments:

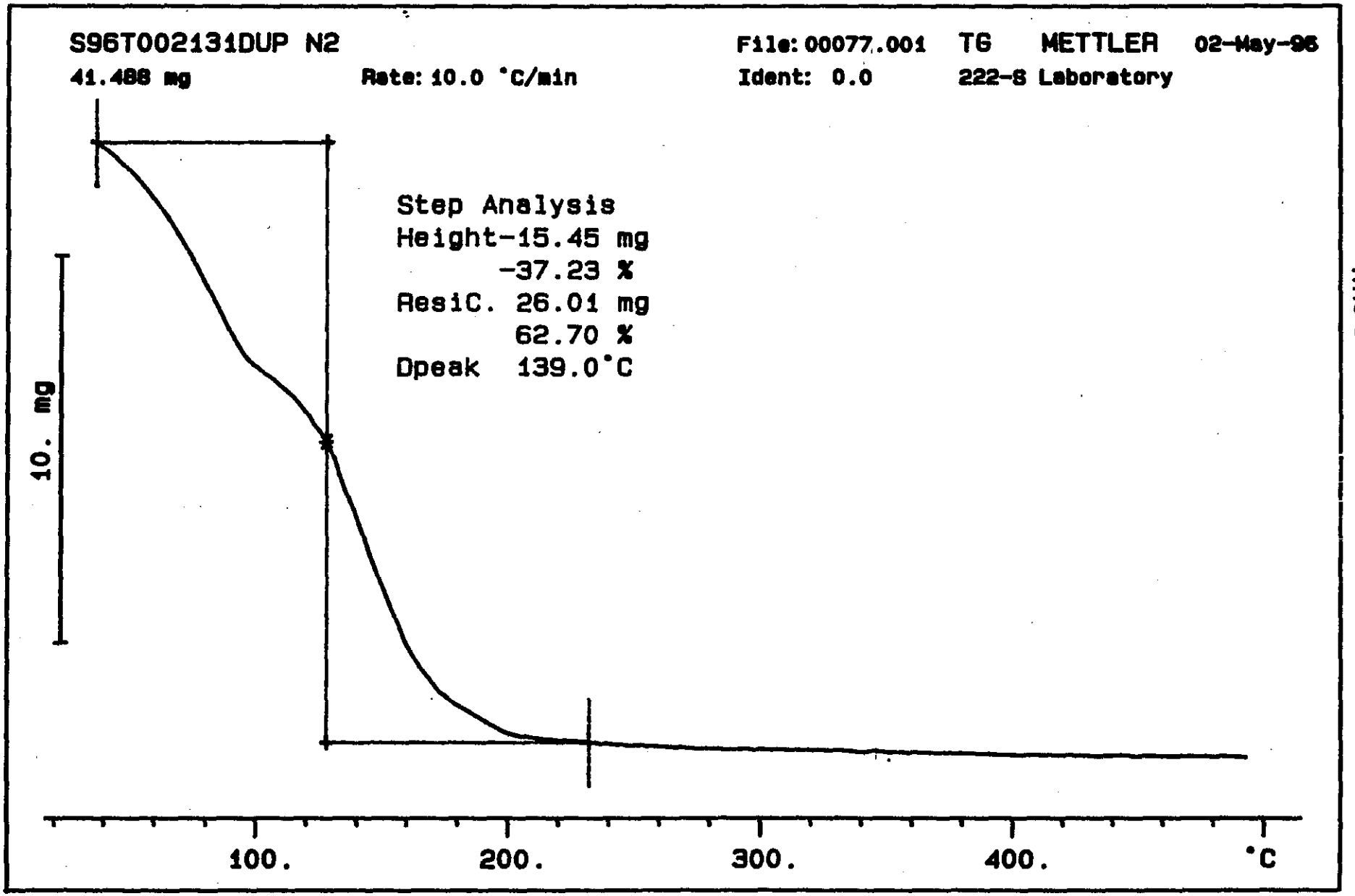
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

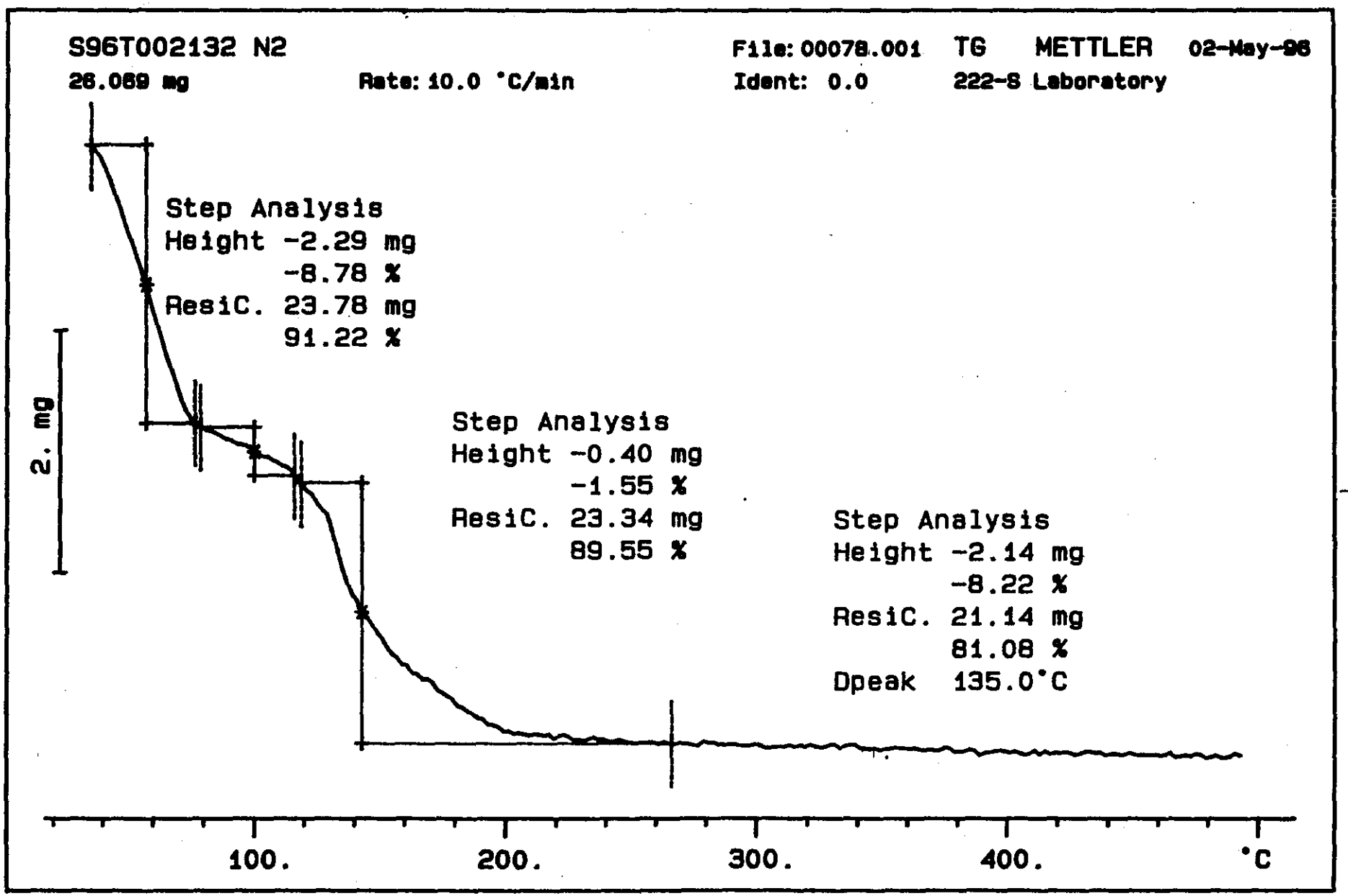
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-273 TO 2-279

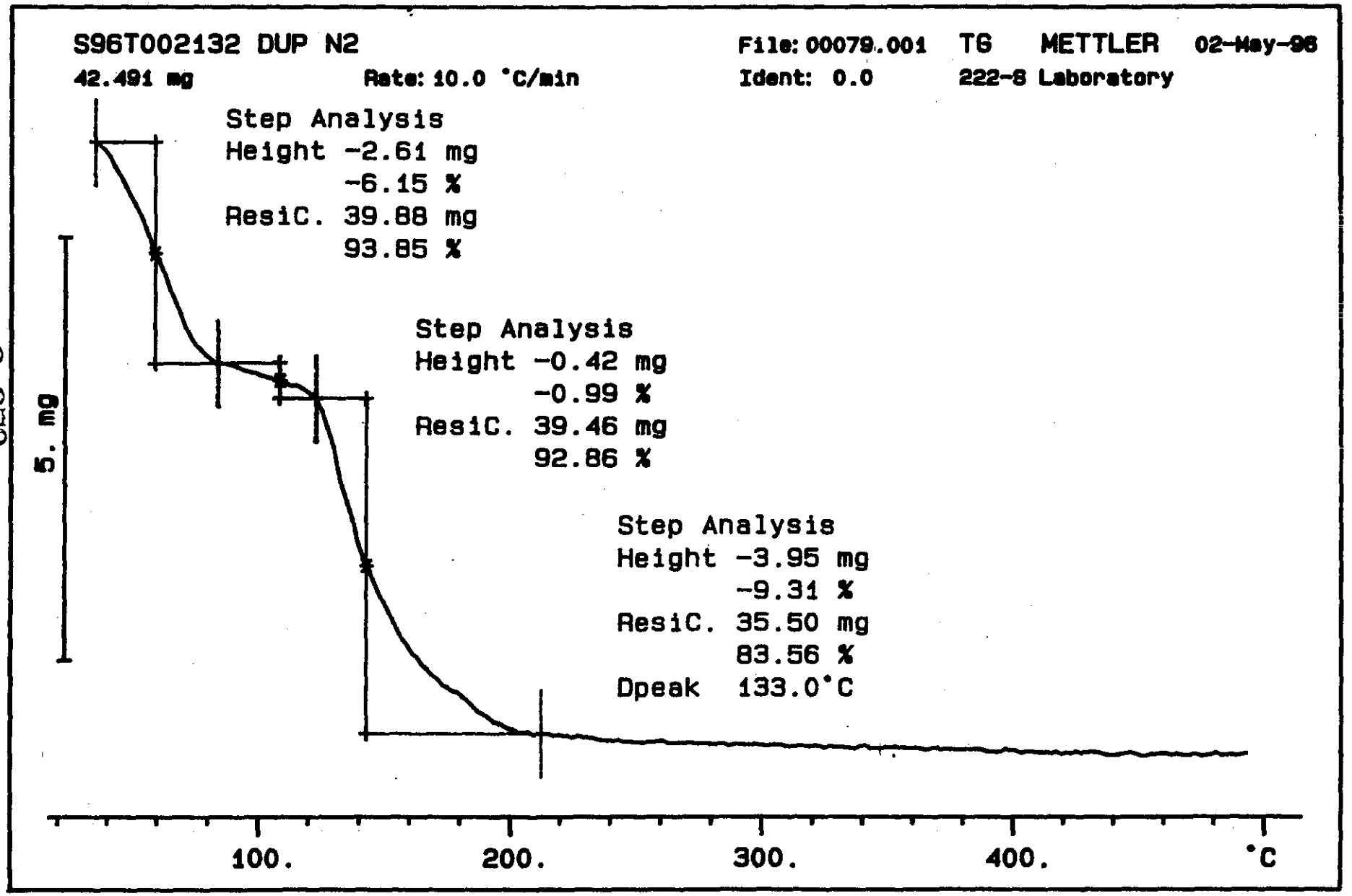


5-1-96


S96T002131 N2
12.766 mg
Rate: 10.0 °C/min
File: 00076.001
TG
METTLER
01-May-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -4.14 mg
-32.41 %
ResiC. 8.63 mg
67.59 %
Dpeak 49.0°C
2. mg
Step Analysis
Height -0.28 mg
-2.16 %
ResiC. 8.35 mg
65.41 %
100.
200.
300.
400.
°C


S96T002131DUP N2
41.488 mg
Rate: 10.0 °C/min
File: 00077.001
TG METTLER 02-May-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height-15.45 mg
-37.23 %
ResiC. 26.01 mg
62.70 %
Dpeak 139.0°C
10. mg
100.
200.
300.
400.
°C


S96T002132 N2
26.069 mg
Rate: 10.0 °C/min
File: 00078.001
Ident: 0.0
TG
METTLER
02-May-96
222-S Laboratory
Step Analysis
Height -2.29 mg
-8.78 %
ResiC. 23.78 mg
91.22 %
Step Analysis
Height -0.40 mg
-1.55 %
ResiC. 23.34 mg
89.55 %
Step Analysis
Height -2.14 mg
-8.22 %
ResiC. 21.14 mg
81.08 %
Dpeak 135.0°C
2. mg
100.
200.
300.
400.
°C


S96T002132 DUP N2
42.491 mg
Rate: 10.0 °C/min
File: 00079.001
TG METTLER 02-May-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -2.61 mg
-6.15 %
ResiC. 39.88 mg
93.85 %
Step Analysis
Height -0.42 mg
-0.99 %
ResiC. 39.46 mg
92.86 %
Step Analysis
Height -3.95 mg
-9.31 %
ResiC. 35.50 mg
83.56 %
Dpeak 133.0°C
5. mg
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
05/03/96 10:39

LABCORE Data Entry Template for Worklist# 8224

Analyst: JdS **Instrument:** TGA0 3 **Book #** 82N8A

Method: LA-514-114 Rev/Mod C-1

Worklist Comment: U-107. Run under nitrogen. new

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-03	SOLID	59.2	58.5*	N/A	%
96000422	U-107	2	SAMPLE	S96T001874	0		TGA-03	SOLID	N/A	0.73		%
96000422	U-107	3	DUP	S96T001874	0		TGA-03	SOLID	0.73	0.92	N/A	%

Final page for worklist # 8224

See Attached for Signatures.
Analyst Signature **Date**

Analyst Signature **Date** 5-4-96

Verified by HAnarto 5-6-96
Sample showed quite a bit of noise and drift, Due to the low level of moisture in it.

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
05/01/96 14:02

LABCORE Data Entry Template for Worklist# 8224

Analyst: Jds **Instrument:** TGA0 _____ **Book #** 32 NFA

Method: LA-560-112 Rev/Mod _____

Worklist Comment: U-107. Run under nitrogen. new

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID			N/A	%
96000422	U-107	2	SAMPLE	S96T001874	0		TGA-01	SOLID	N/A			%
96000422	U-107	3	DUP	S96T001874	0		TGA-01	SOLID			N/A	%

Final page for worklist # 8224

JAK Sy 5-1-96

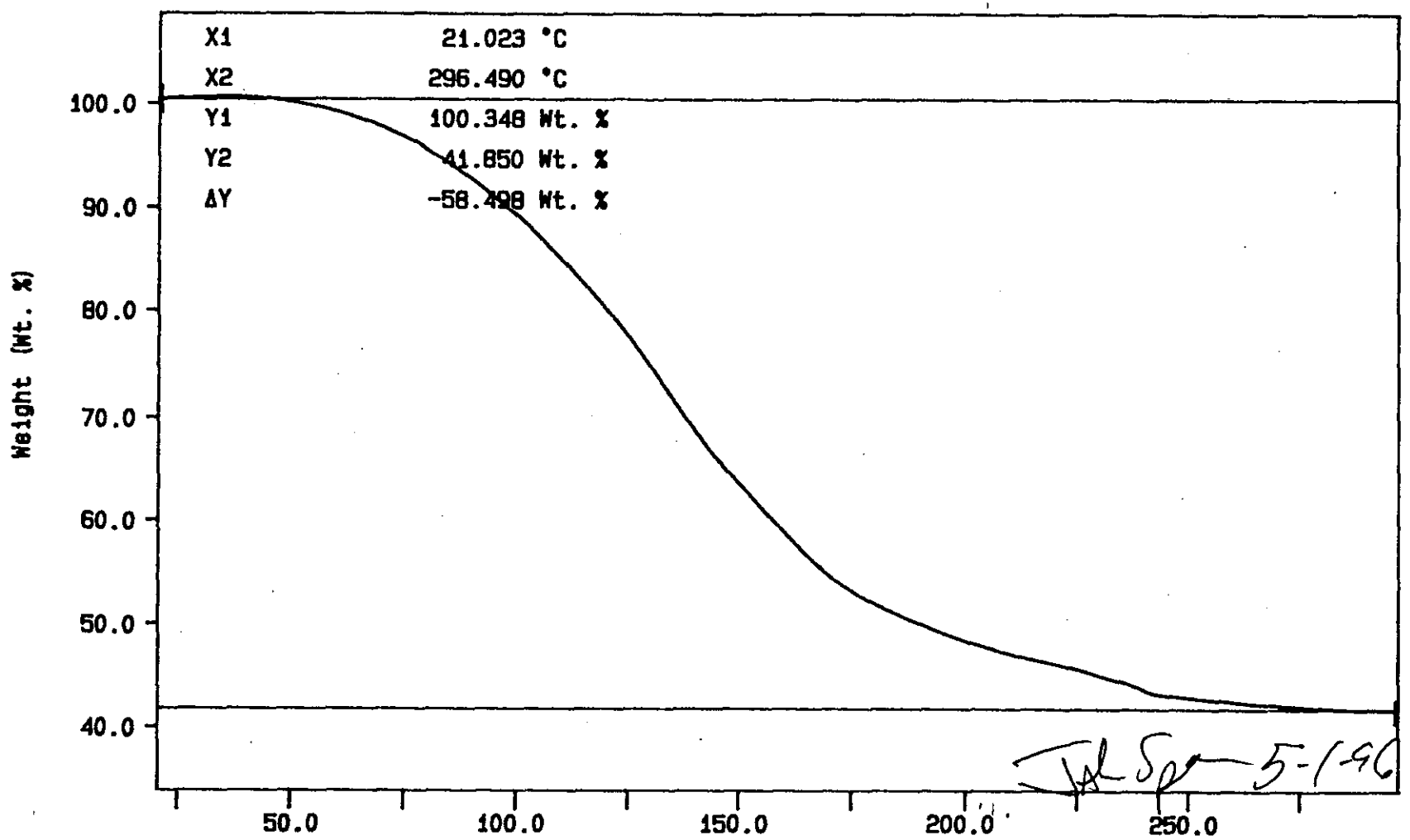
Analyst Signature **Date** **Analyst Signature** **Date**

Other Instrument was used.

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: TGA
File info: TER050101 Wed May 1 08:59:10 1996
Sample Weight: 22.801 mg
TGA STD 82N8-A



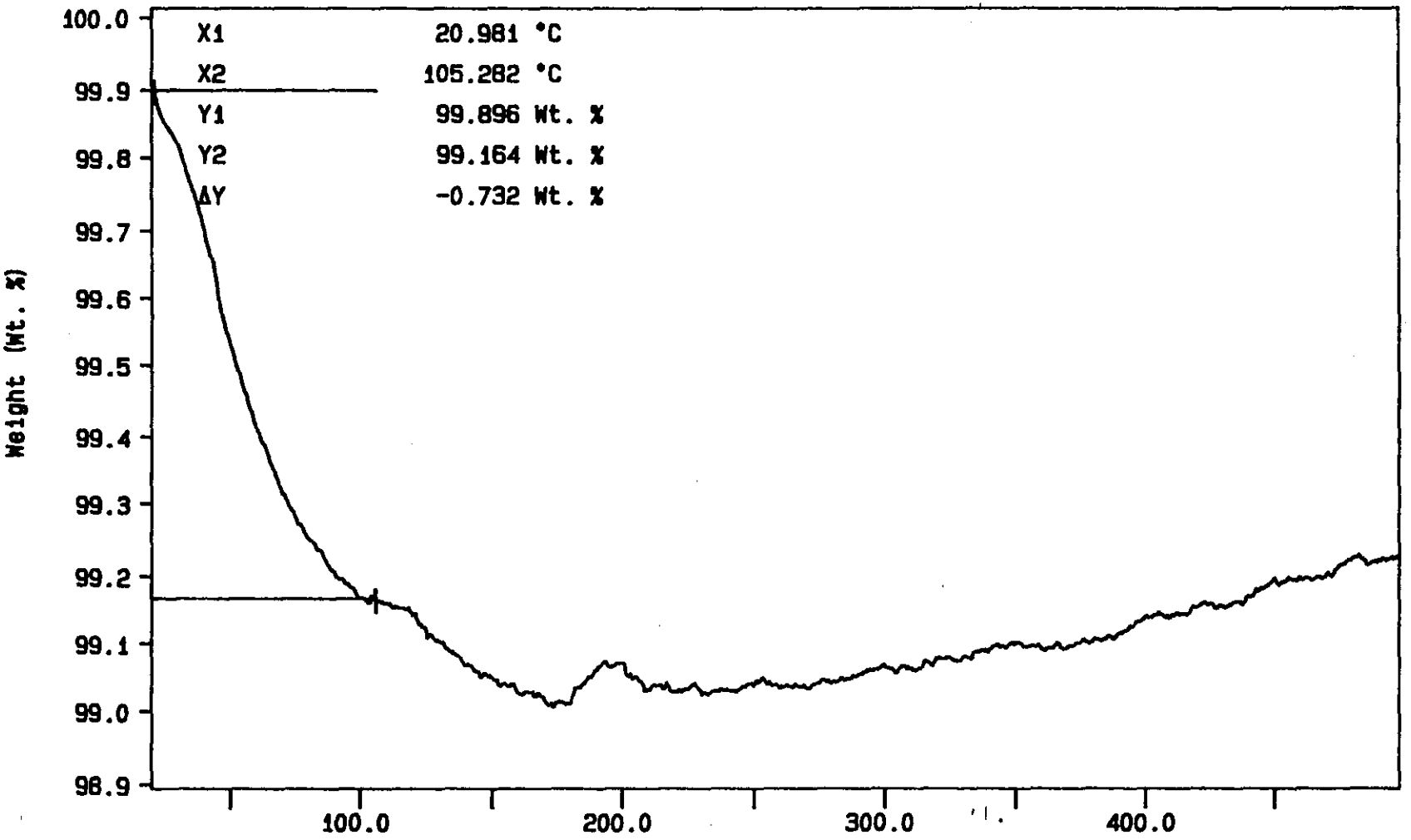
JAL Sp 5-1-96

N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Wed May 1 22:02:18 1996

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-282 TO 2-284

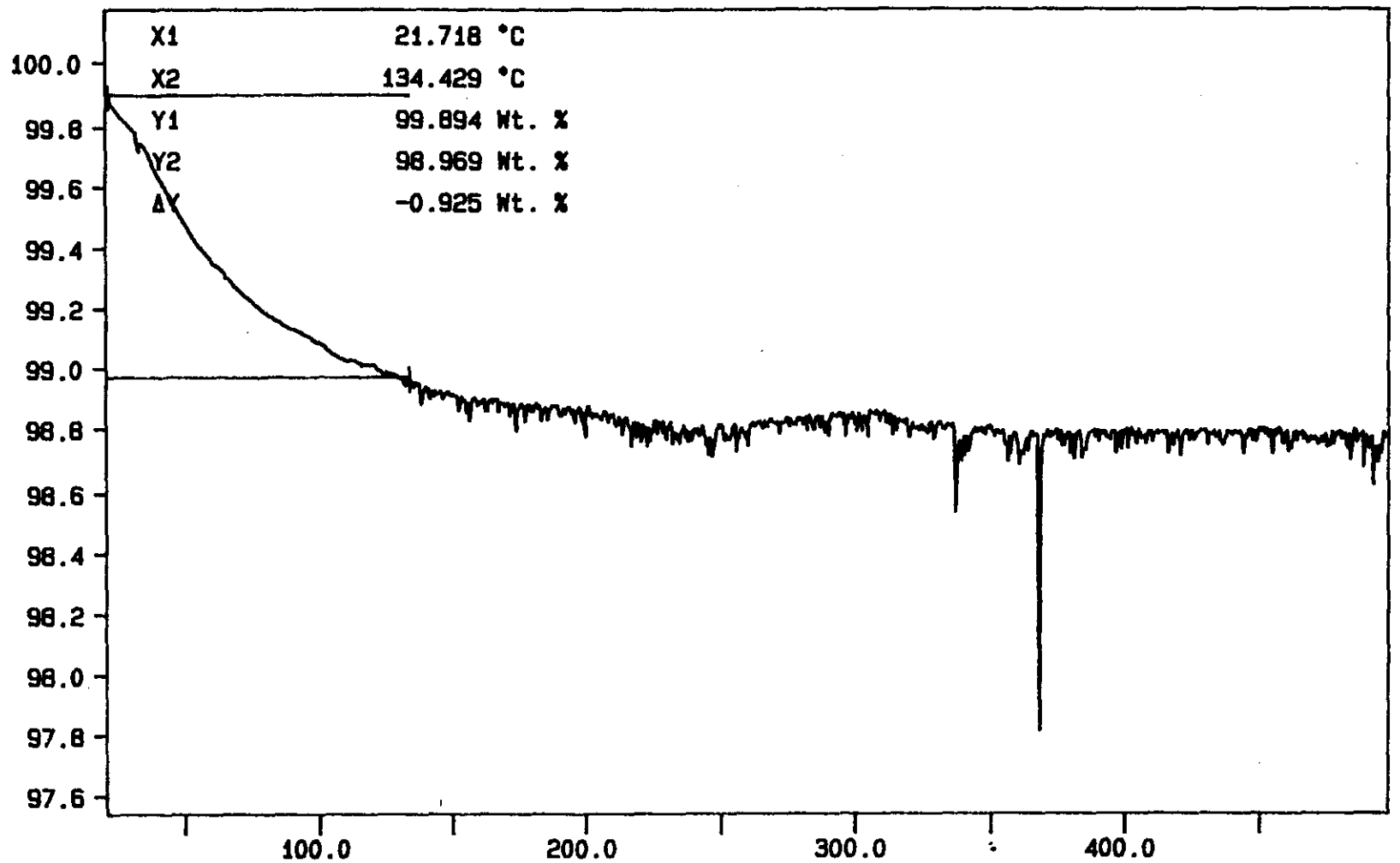
Curve 1: TGA
File info: SAM050108 Wed May 1 23:09:25 1996
Sample Weight: 23.471 mg
S96T000833 1874 SAM
5/3/96



10C/MIN N2
TEMP1: 30.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Fri May 3 09:25:51 1996

Curve 1: TGA
File info: SAM050201 Thu May 2 01:55:58 1996
Sample Weight: 27.505 mg
S96T001874DUP



10C/MIN N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Fri May 3 09:31:00 1996

WHC-SD-WM-DP-184, REV. 1

2-284

LABCORE Data Entry Template for Worklist# 8226

Analyst: RJ McCown **Instrument:** TGA0 1 **Book #** 82N8A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107. Run under nitrogen. new

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	LIQUID	59.2	59.26	N/A	%
96000126	U-107	2	SAMPLE	S96T002034	0		TGA-01	LIQUID	N/A	98.17		%
96000126	U-107	3	DUP	S96T002034	0		TGA-01	LIQUID	98.17	98.14	N/A	%

Final page for worklist # 8226

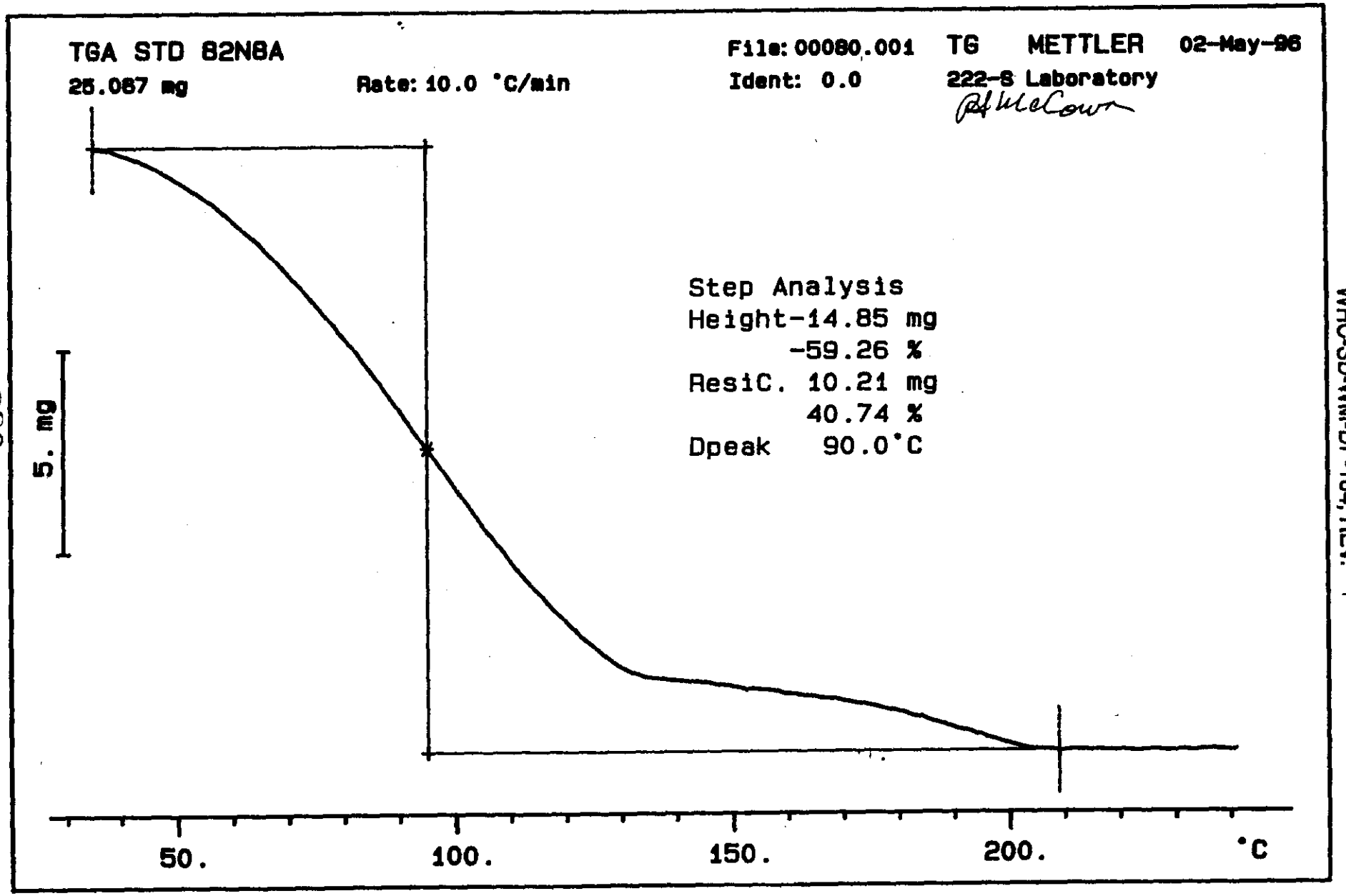
RJ McCown 5/2/96 RJM 5/4/96
Analyst Signature Date

Gary Hanastin 5-4-96
Analyst Signature Date

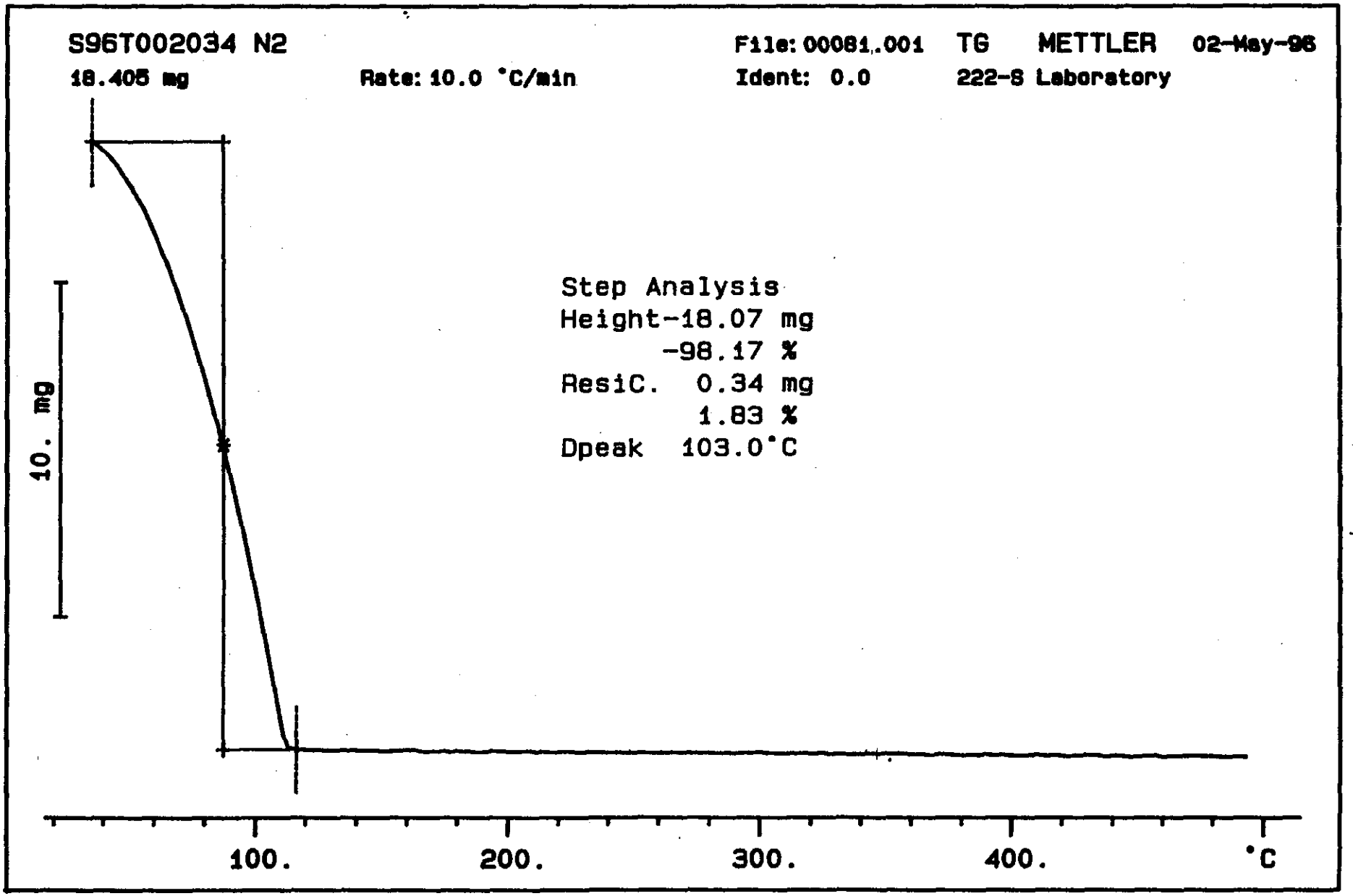
Verified by HAnastin 5-6-96

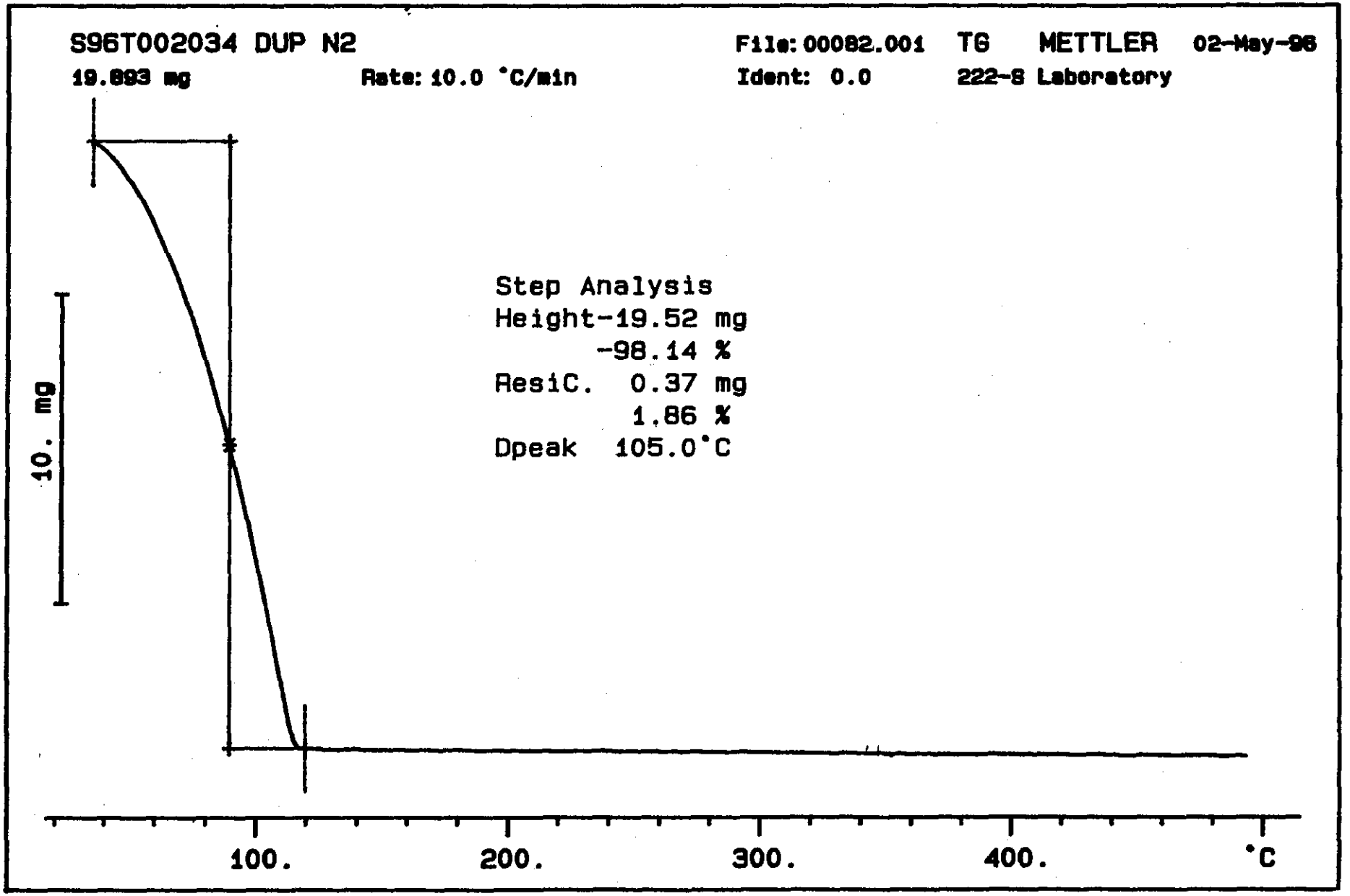
Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-286 TO 2-288


S96T002034 N2
18.405 mg
Rate: 10.0 °C/min
File: 00081.001
Ident: 0.0
TG
METTLER
222-S Laboratory
02-May-96
Step Analysis
Height-18.07 mg
-98.17 %
ResiC. 0.34 mg
1.83 %
Dpeak 103.0°C
10. mg
100.
200.
300.
400.
°C


S96T002034 DUP N2
19.893 mg
Rate: 10.0 °C/min
File: 00082.001
Ident: 0.0
TG
METTLER
222-S Laboratory
02-May-96
Step Analysis
Height-19.52 mg
-98.14 %
ResiC. 0.37 mg
1.86 %
Dpeak 105.0°C
10. mg
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
05/07/96 11:06

LABCORE Data Entry Template for Worklist# 8434

Analyst: KRM **Instrument:** TGA0 1 **Book #** 8208-A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	LIQUID	59.2	58.92	N/A	%
96000422	U-107	2	SAMPLE	S96T002140	0		TGA-01	LIQUID	N/A	52.73		%
96000422	U-107	3	DUP	S96T002140	0		TGA-01	LIQUID	52.73	52.28	N/A	%
96000422	U-107	4	SAMPLE	S96T002141	0		TGA-01	LIQUID	N/A	47.03		%
96000422	U-107	5	DUP	S96T002141	0		TGA-01	LIQUID	47.03	47.02	N/A	%

Final page for worklist # 8434

5-8-96
Analyst Signature **Date**

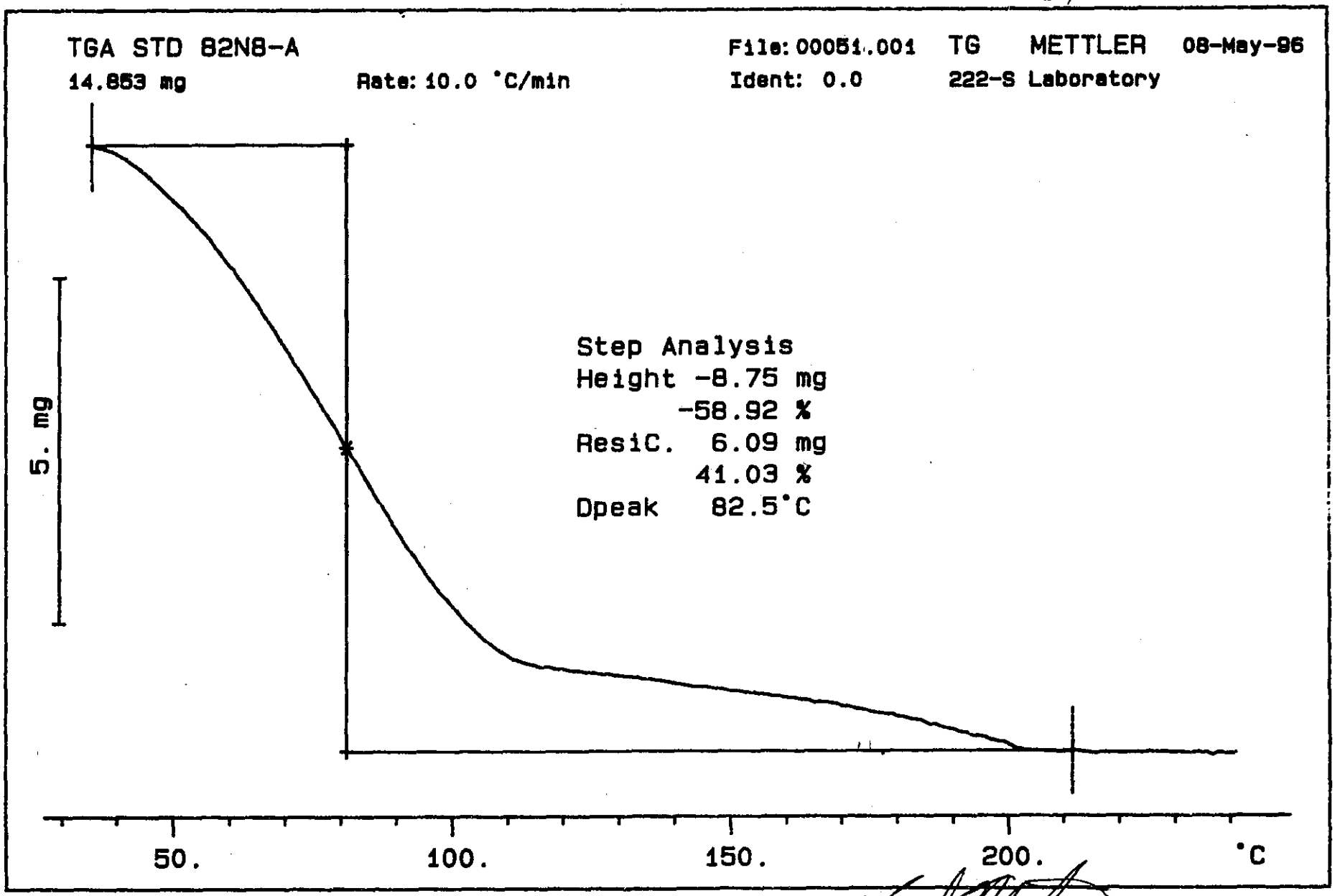
5-13-96
Analyst Signature **Date**

Validated by HAnastas 5-14-96

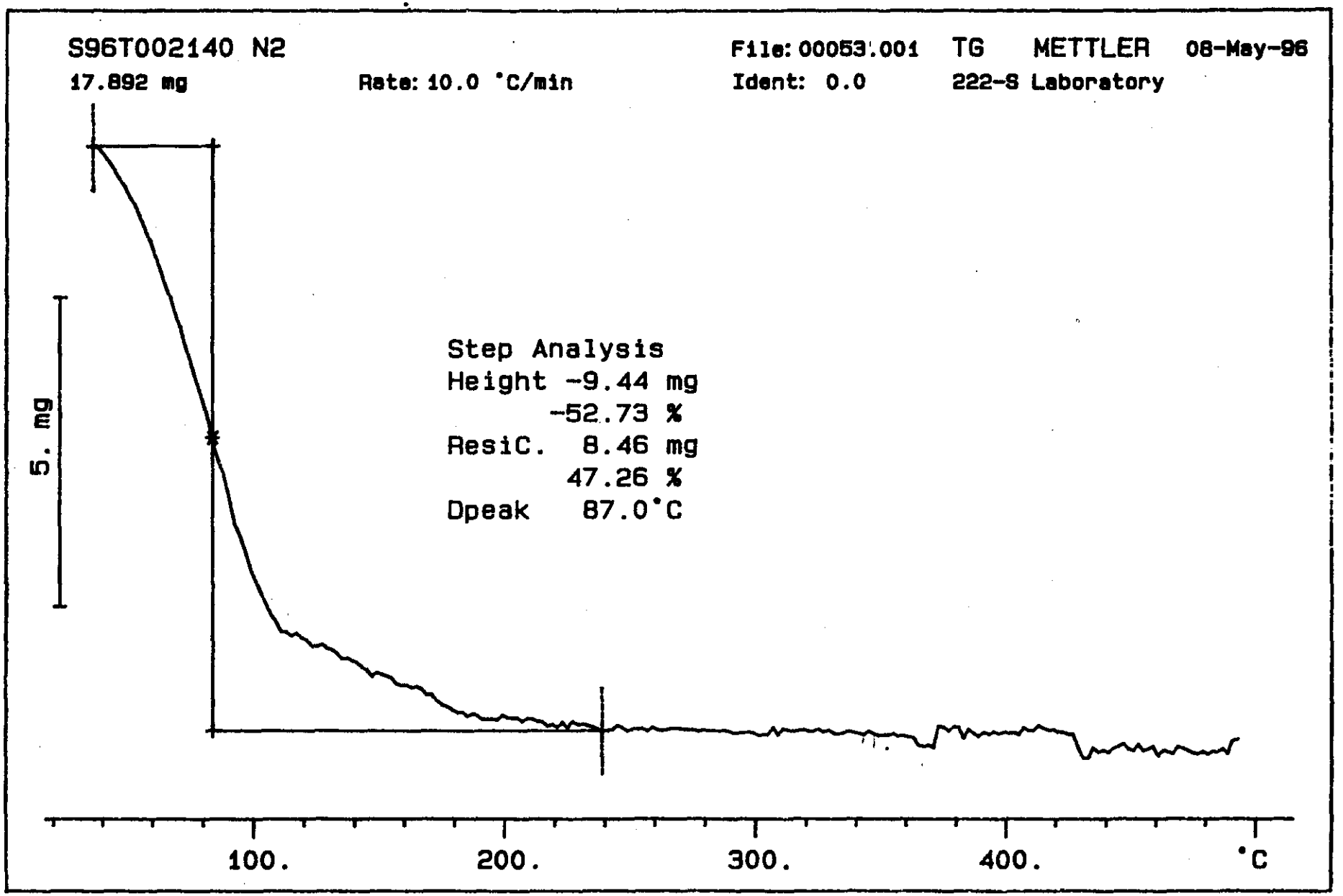
Data Entry Comments:

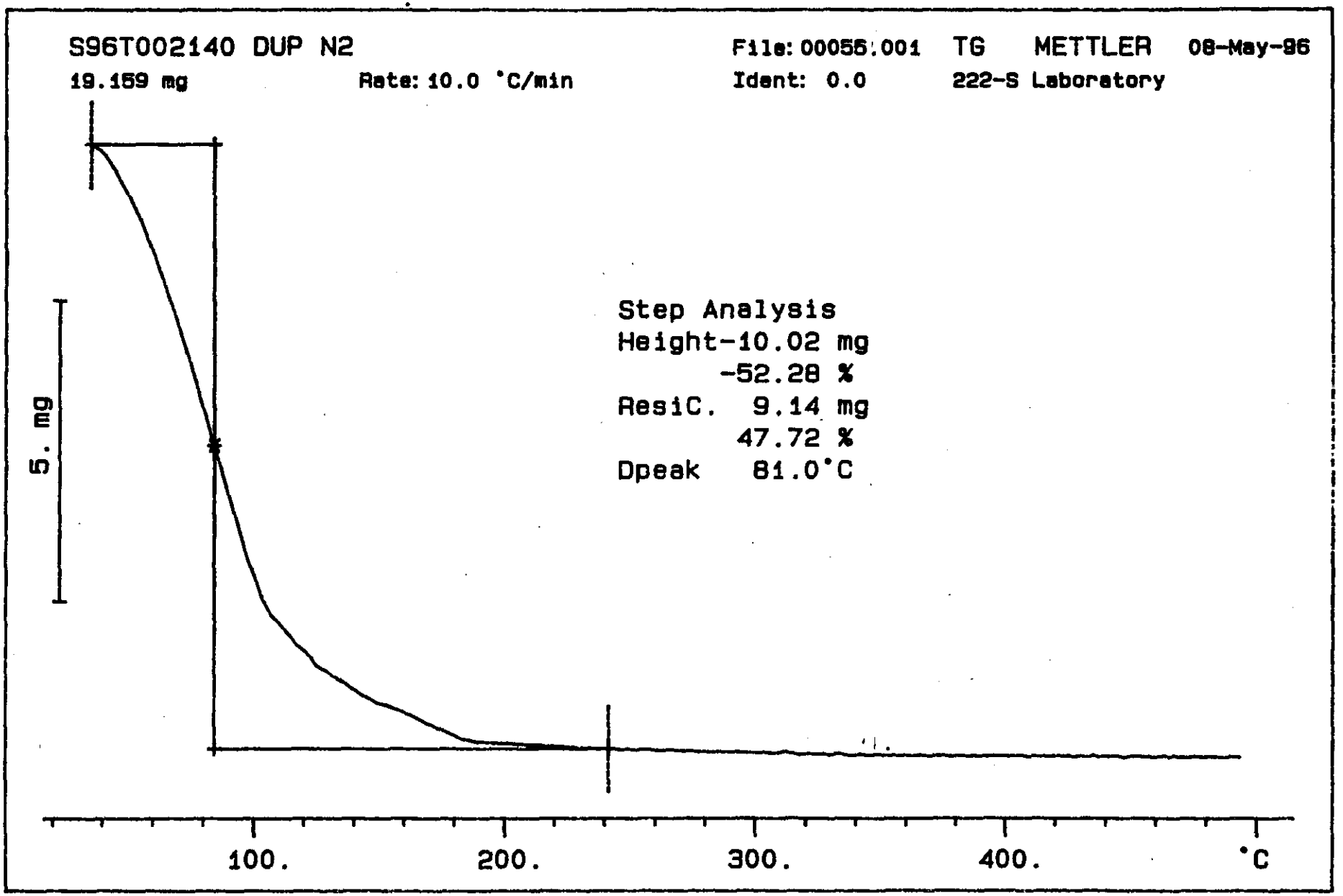
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

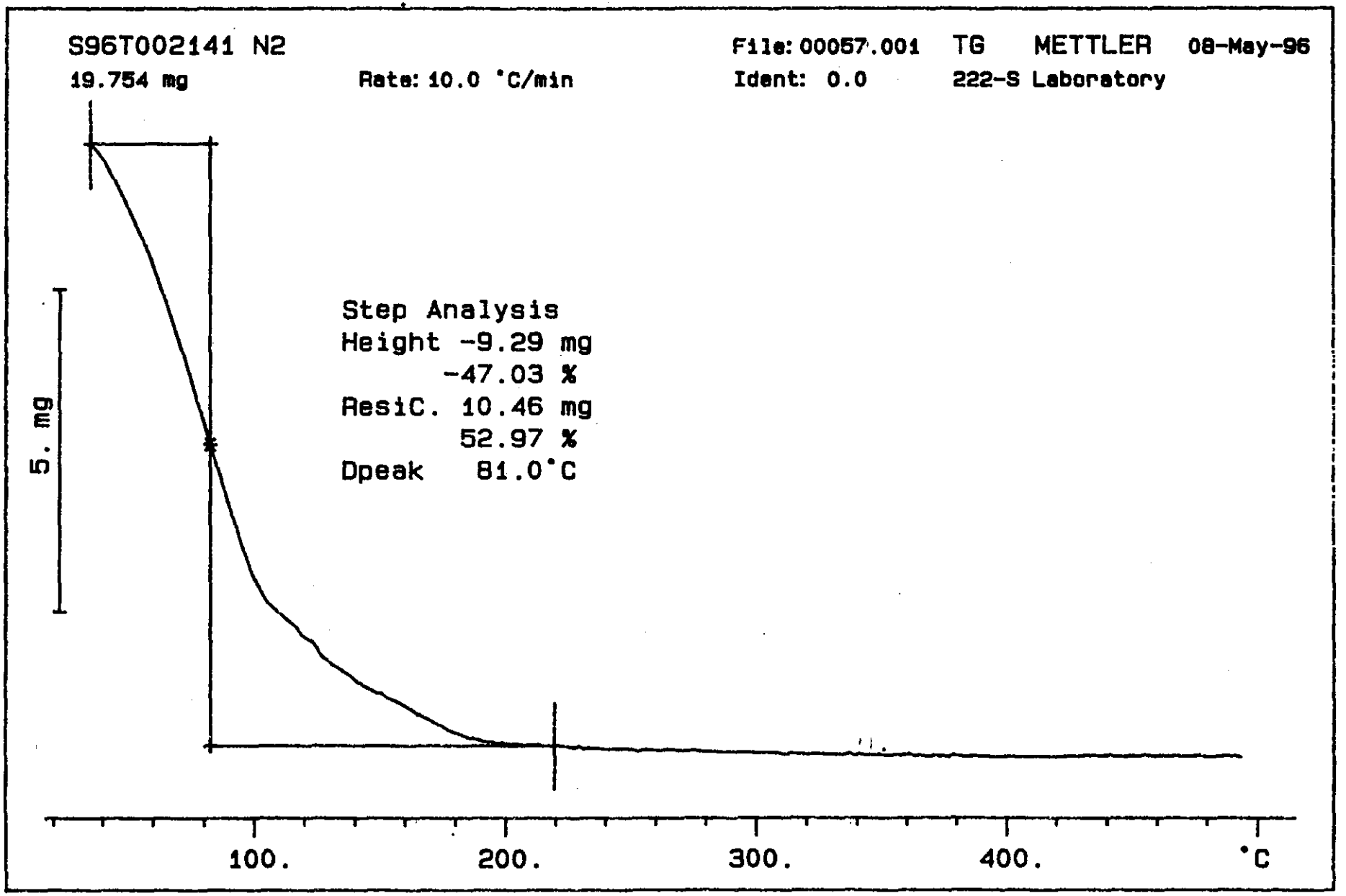
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2290 TO 2294

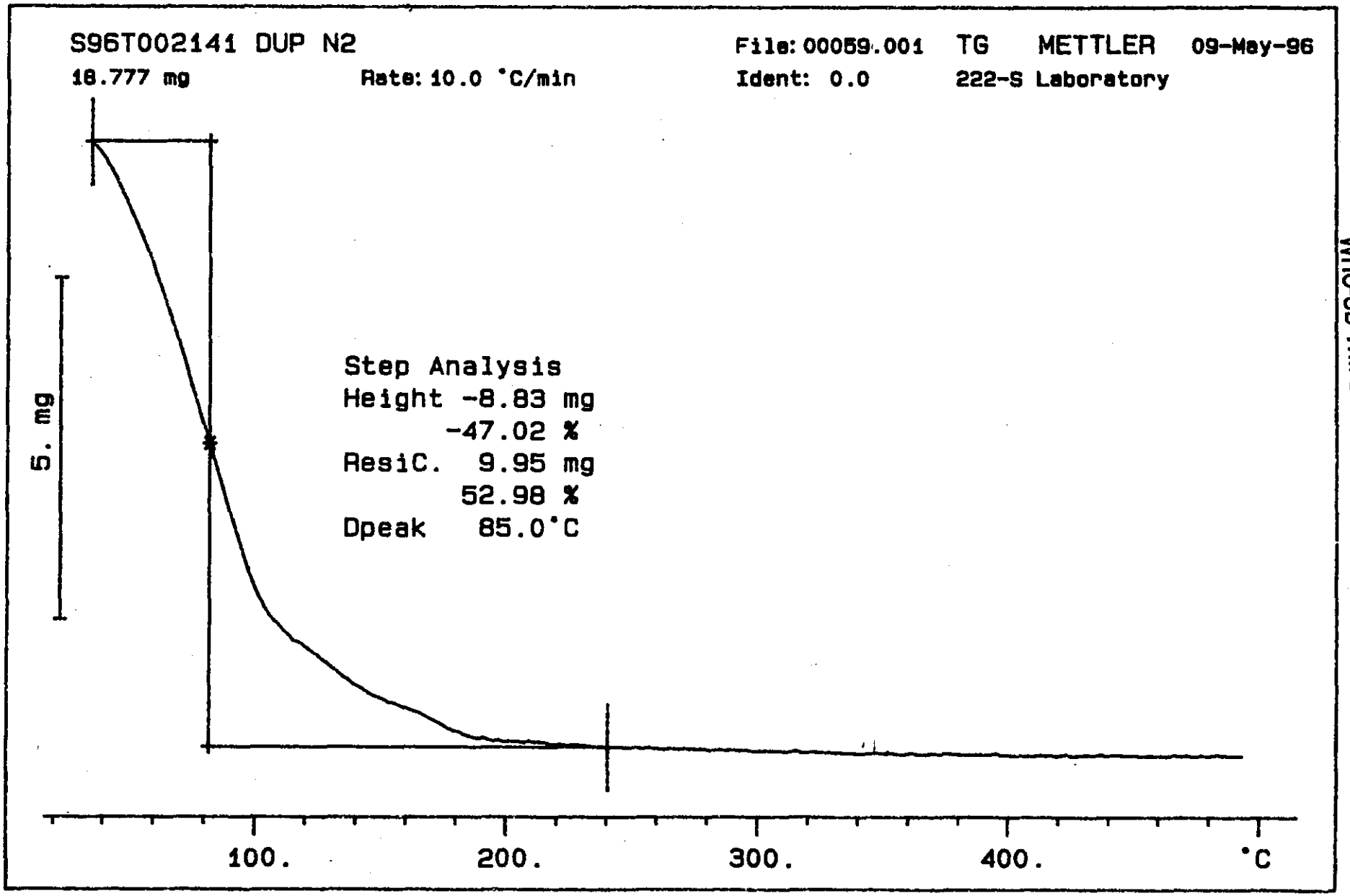


5-8-96


S96T002140 N2
17.892 mg
Rate: 10.0 °C/min
File: 00053.001
TG METTLER 08-May-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -9.44 mg
-52.73 %
ResiC. 8.46 mg
47.26 %
Dpeak 87.0°C
5. mg
100.
200.
300.
400.
°C


S96T002140 DUP N2
19.159 mg
Rate: 10.0 °C/min
File: 00055.001
Ident: 0.0
TG
METTLER
08-May-96
222-S Laboratory
Step Analysis
Height-10.02 mg
-52.28 %
ResiC. 9.14 mg
47.72 %
Dpeak 81.0°C
5. mg
100.
200.
300.
400.
°C


S96T002141 N2
19.754 mg
Rate: 10.0 °C/min
File: 00057.001
TG
METTLER
08-May-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -9.29 mg
-47.03 %
ResiC. 10.46 mg
52.97 %
Dpeak 81.0°C
5. mg
100.
200.
300.
400.
°C


S96T002141 DUP N2
18.777 mg
Rate: 10.0 °C/min
File: 00059.001
TG
METTLER
09-May-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -8.83 mg
-47.02 %
ResiC. 9.95 mg
52.98 %
Dpeak 85.0°C
5. mg
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
05/07/96 11:10

LABCORE Data Entry Template for Worklist# 8435

Analyst: KRM **Instrument:** TGA0 **Book #** 8208A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	LIQUID	59.2	59.13*	N/A	%
96000422	U-107	2 SAMPLE	S96T002142	0		TGA-01	LIQUID	N/A	52.45		%
96000422	U-107	3 DUP	S96T002142	0		TGA-01	LIQUID	52.45	52.18	N/A	%

Final page for worklist # 8435

5-7-96
Analyst Signature **Date**

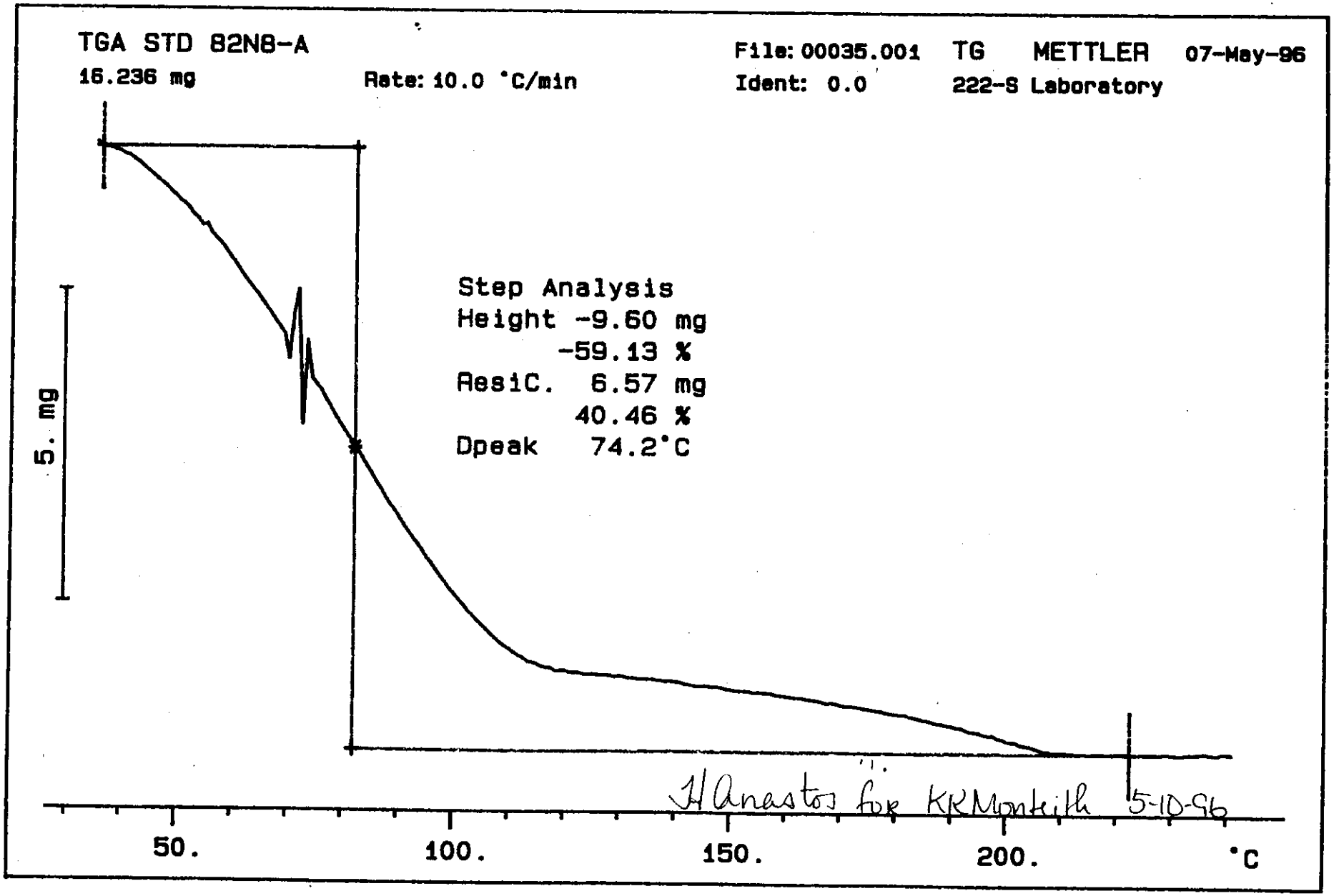
5-9-96
Analyst Signature **Date**

Validated by H Anastos 5-10-96

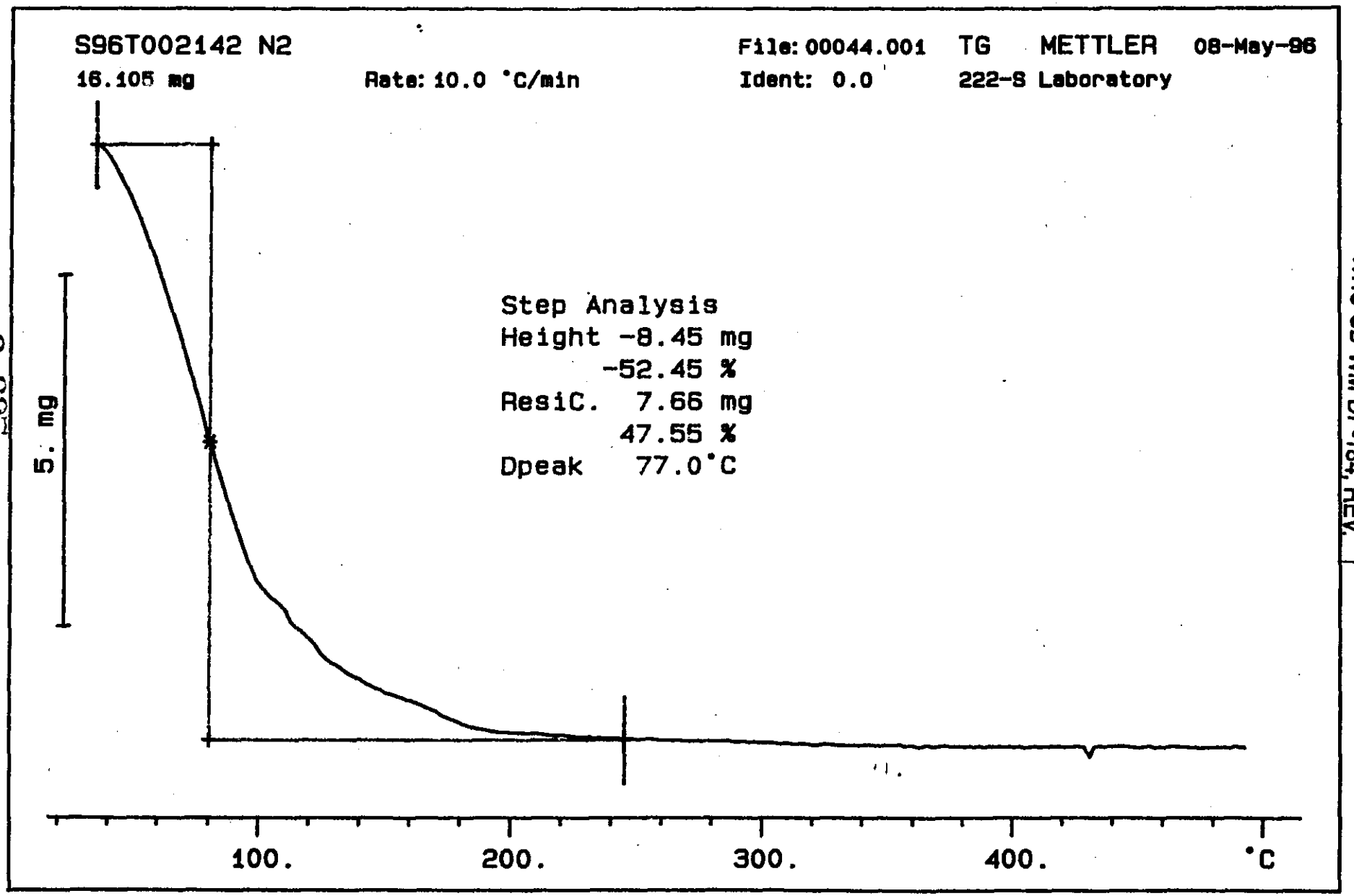
Data Entry Comments:

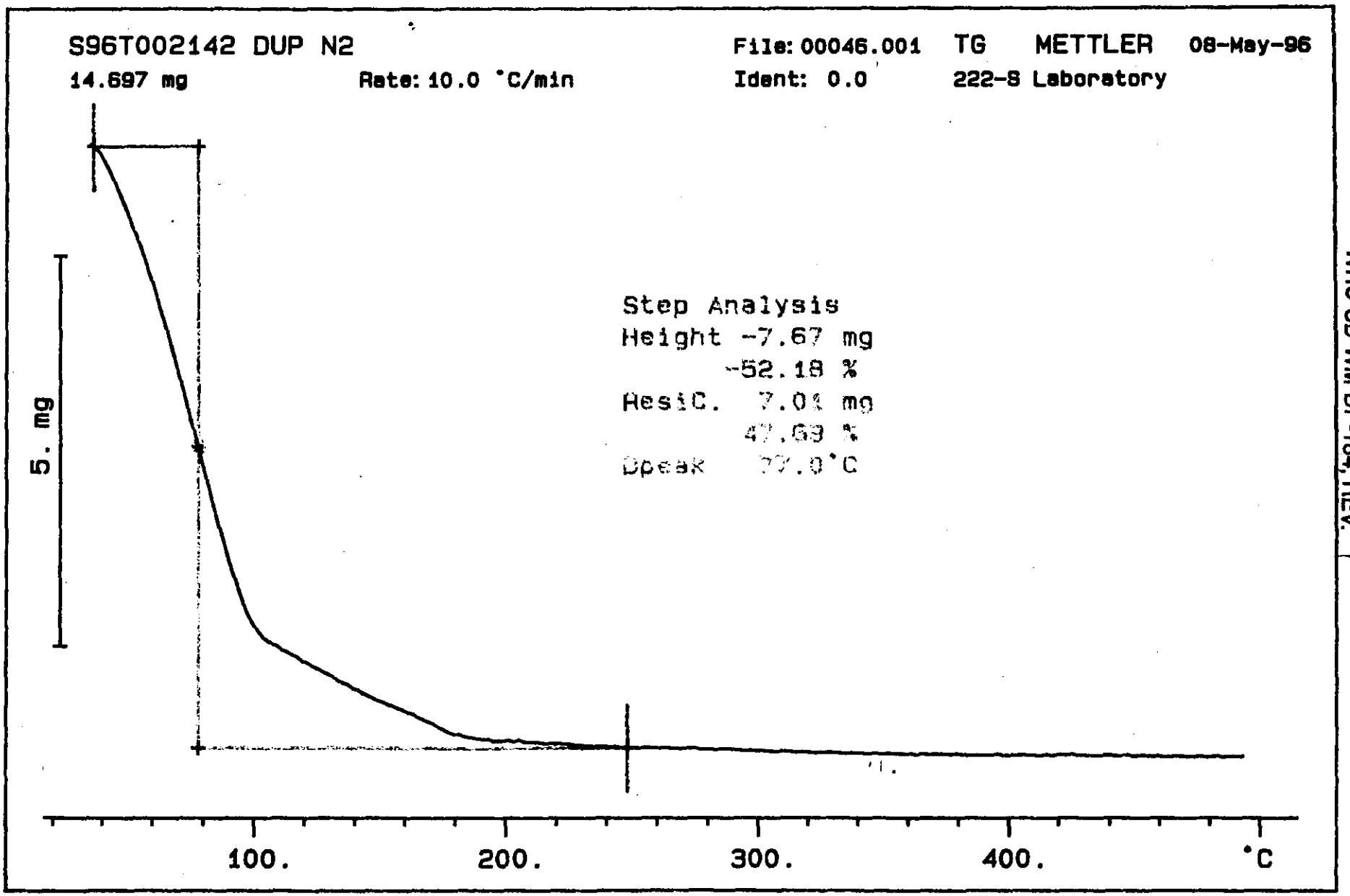
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-296 TO 2-298



H Anastos for KR Monteith 5-10-96


S96T002142 N2
16.105 mg
Rate: 10.0 °C/min
File: 00044.001
TG METTLER 08-May-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -8.45 mg
-52.45 %
ResiC. 7.66 mg
47.55 %
Dpeak 77.0°C
5. mg
100.
200.
300.
400.
°C


S96T002142 DUP N2
14.697 mg
Rate: 10.0 °C/min
File: 00046.001
TG METTLER 08-May-96
Ident: 0.0
222-S Laboratory
Step Analysis
Height -7.67 mg
-52.18 %
ResiC. 7.01 mg
47.69 %
Dpeak 77.0°C
5. mg
100.
200.
300.
400.
°C

worklistrpt Version 2.1 05/15/95
05/13/96 08:54

LABCORE Data Entry Template for Worklist# 8436

Analyst: KRM **Instrument:** TGA0 1 **Book #** 82N8A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.2	59.13*	N/A	%
96000422	U-107	2	SAMPLE	S96T002133	0		TGA-01	SOLID	N/A	16.38		%
		3	STD				TGA-01	SOLID	59.2	58.92*	N/A	%
96000422	U-107	4	DUP	S96T002133	0		TGA-01	SOLID	16.38	15.46	N/A	%

Final page for worklist # 8436

See attached for signatures
Analyst Signature **Date** 5-13-96

Analyst Signature **Date** 5-13-96

Validated by HAnastos 5-14-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

worklistrpt Version 2.1 05/15/95
05/07/96 11:12

LABCORE Data Entry Template for Worklist# 8436

Analyst: KRM **Instrument:** TGA0 _____ **Book #** 82NBA

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID			N/A	%
96000422	U-107	2	SAMPLE	S96T002133	0		TGA-01	SOLID	N/A			%
96000422	U-107	3	DUP	S96T002133	0		TGA-01	SOLID			N/A	%

Final page for worklist # 8436

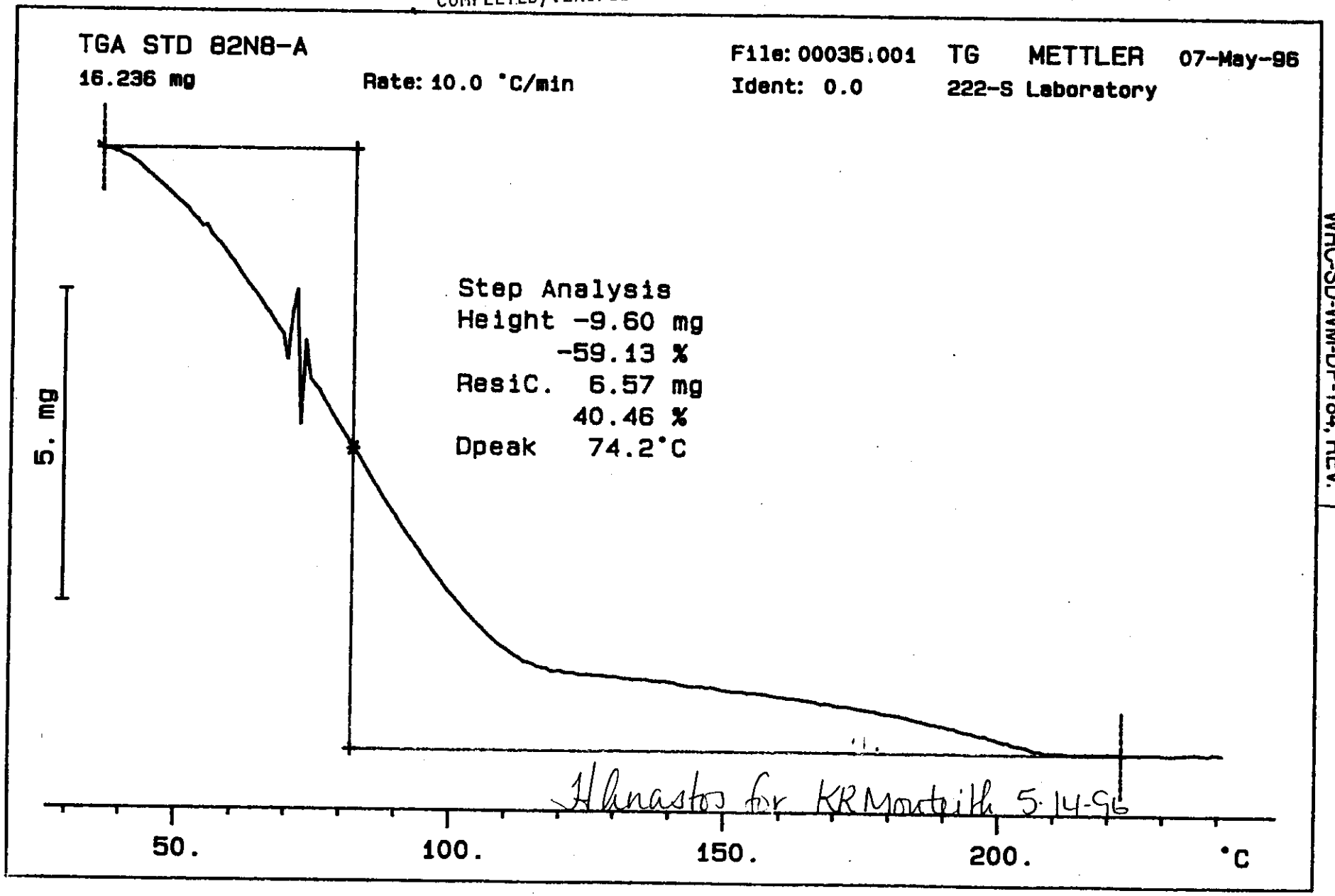
5-7-96

Analyst Signature **Date** **Analyst Signature** **Date**

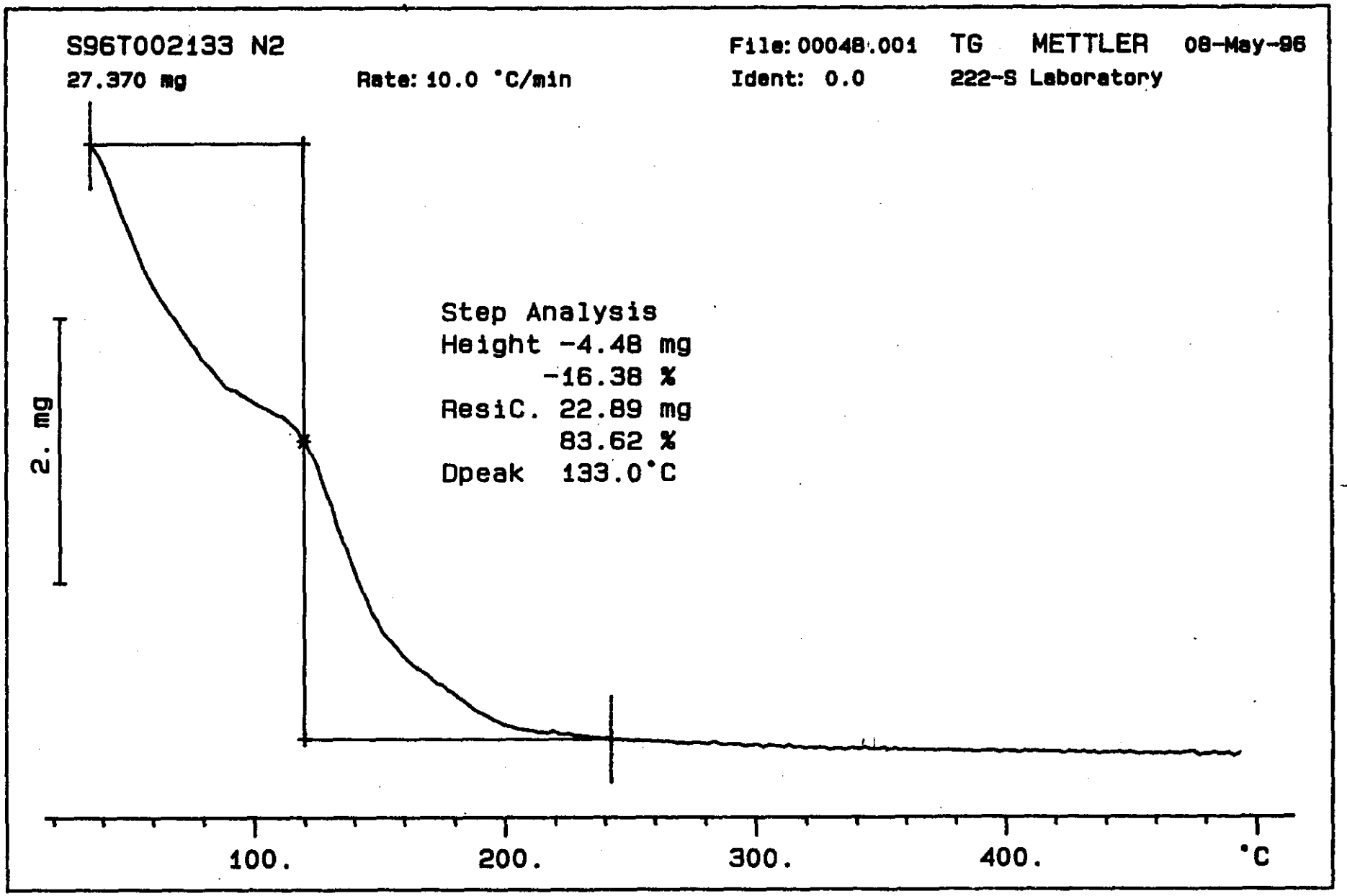
Data Entry Comments:

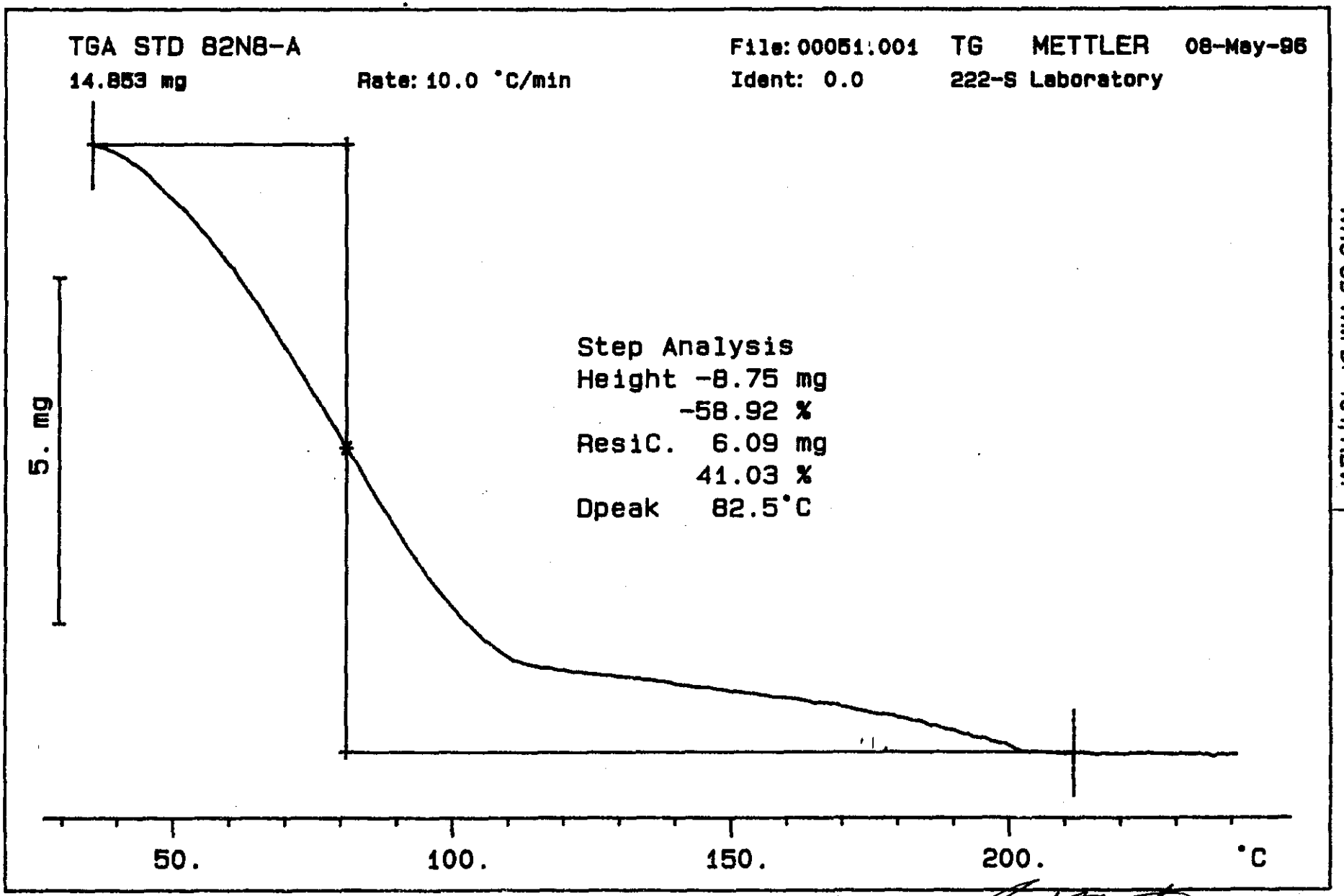
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-301 TO 2-304

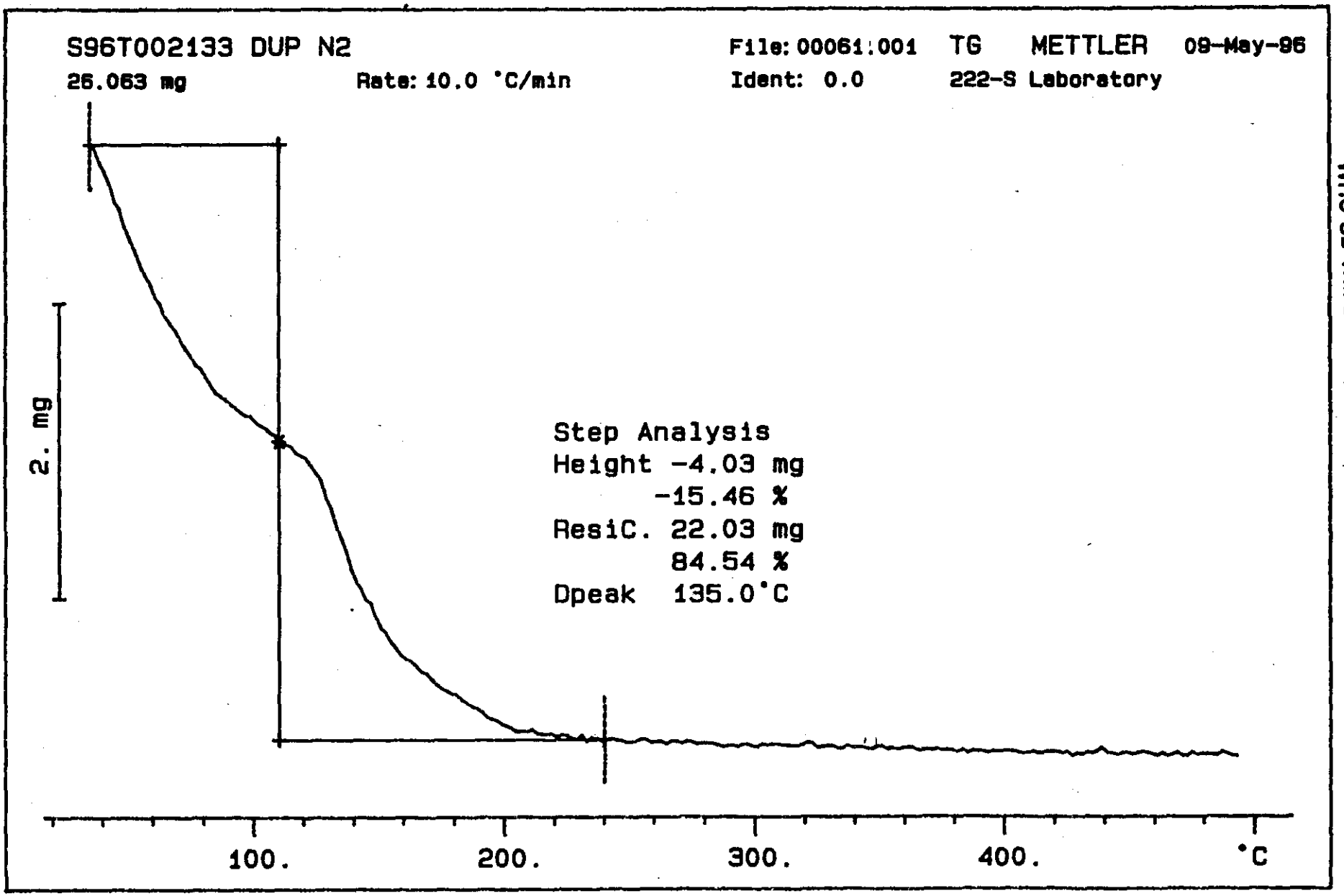


H Anastos for KR Monteith 5-14-96


S96T002133 N2
27.370 mg
Rate: 10.0 °C/min
File: 00048.001
Ident: 0.0
TG
METTLER
08-May-96
222-S Laboratory
Step Analysis
Height -4.48 mg
-16.38 %
ResiC. 22.89 mg
83.62 %
Dpeak 133.0°C
2. mg
100.
200.
300.
400.
°C


TGA STD 82N8-A
14.853 mg
Rate: 10.0 °C/min
File: 00051.001
Ident: 0.0
TG
METTLER
08-May-96
222-S Laboratory
Step Analysis
Height -8.75 mg
-58.92 %
ResiC. 6.09 mg
41.03 %
Dpeak 82.5°C
5. mg
50.
100.
150.
200.
°C

5-8-96


S96T002133 DUP N2
25.063 mg
Rate: 10.0 °C/min
File: 00061:001
Ident: 0.0
TG
METTLER
222-S Laboratory
09-May-96
2. mg
Step Analysis
Height -4.03 mg
-15.46 %
ResiC. 22.03 mg
84.54 %
Dpeak 135.0°C
100.
200.
300.
400.
°C

LABCORE Data Entry Template for Worklist# 8947

Analyst: RJMcCown **Instrument:** TGA0 1 **Book #** 82N8A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-107 TGA-01 RUN UNDER N2 RTS!

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	LIQUID	59.2	59.37	N/A	%
96000422	U-107	2	SAMPLE	S96T001866	0		TGA-01	LIQUID	N/A	94.44		%
96000422	U-107	3	DUP	S96T001866	0		TGA-01	LIQUID	94.44	93.93	N/A	%

Final page for worklist # 8947

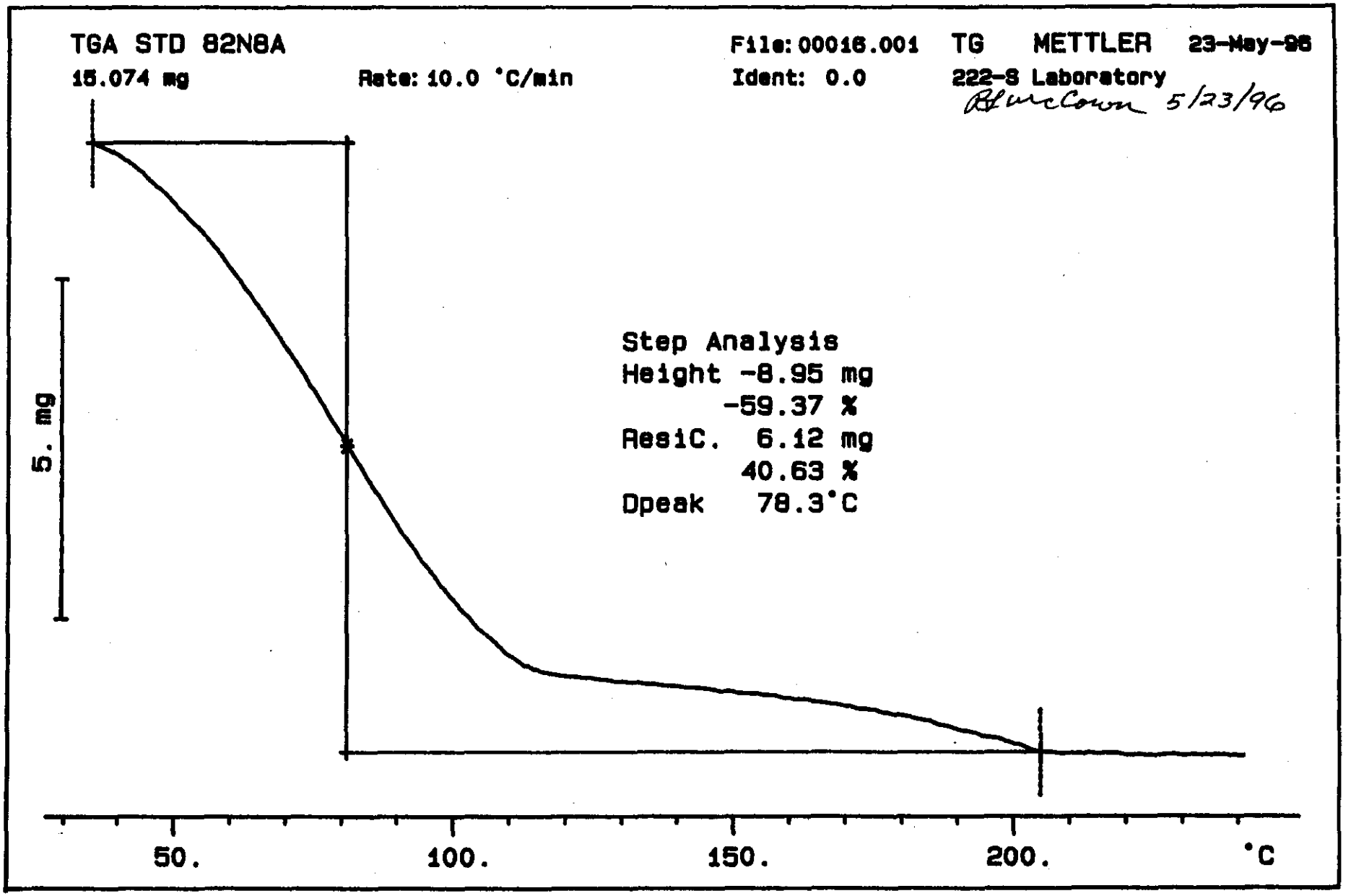
RJMcCown 5/23/96
Analyst Signature Date

RHHd 5-28-96
Analyst Signature Date

Verified / Validated by
Blandina Valenzuela 5-31-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.


TGA STD 82N8A
15.074 mg
Rate: 10.0 °C/min
File: 00016.001
Ident: 0.0
TG METTLER 23-May-96
222-S Laboratory
RLMcCown 5/23/96
Step Analysis
Height -8.95 mg
-59.37 %
ResiC. 6.12 mg
40.63 %
Dpeak 78.3°C
5. mg
50.
100.
150.
200.
°C

S96T001866 N2

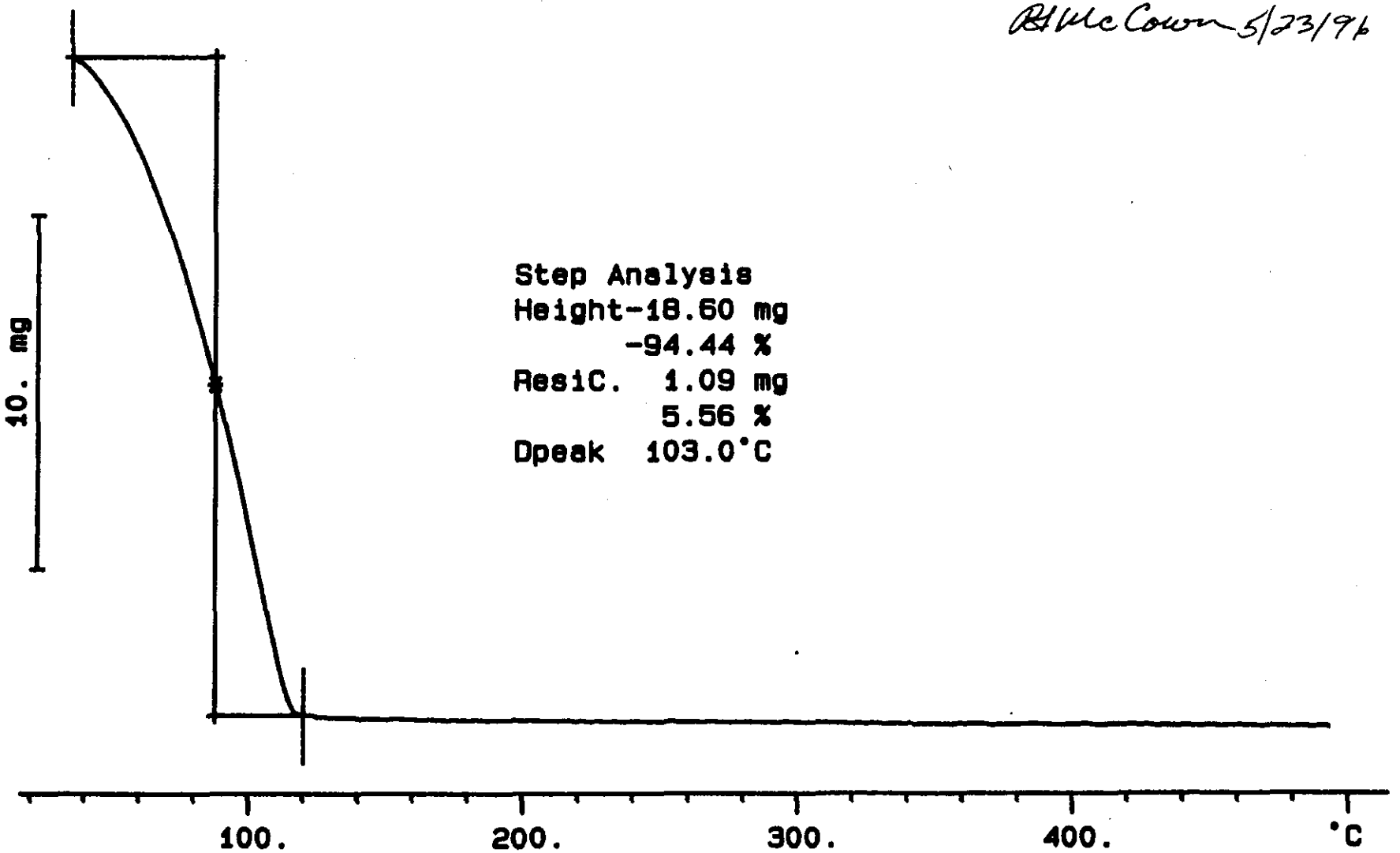
19.699 mg

Rate: 10.0 °C/min

File: 00021.001 TG METTLER 23-May-96

Ident: 0.0 222-S Laboratory

RHMcCown 5/23/96



Step Analysis
Height-18.60 mg
-94.44 %
ResiC. 1.09 mg
5.56 %
Dpeak 103.0°C

S96T001866 DUP N2

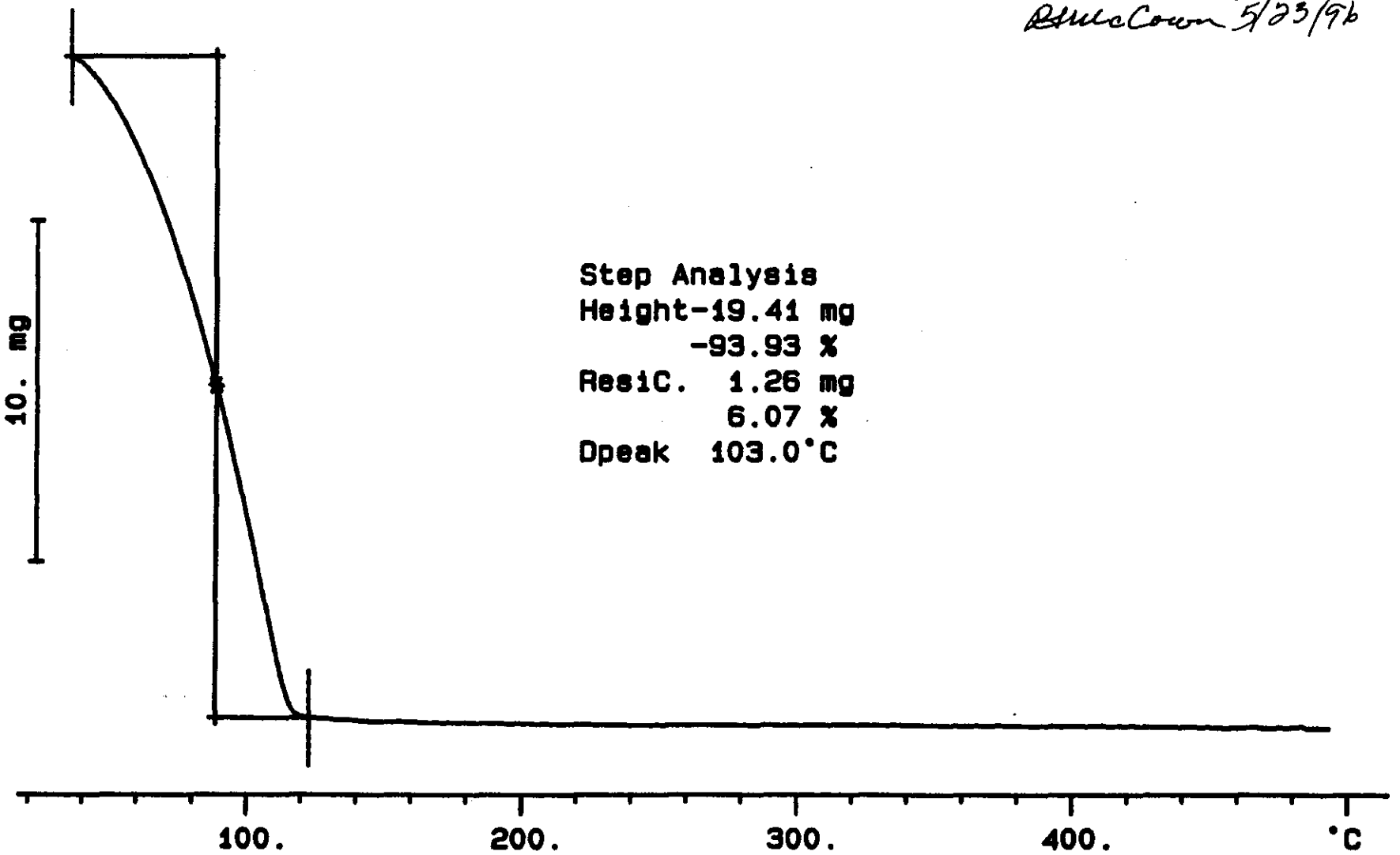
20.661 mg

Rate: 10.0 °C/min

File: 00019.001 TG METTLER 23-May-96

Ident: 0.0 222-S Laboratory

R.H. McCown 5/23/96



Step Analysis
Height -19.41 mg
-93.93 %
ResiC. 1.26 mg
6.07 %
Dpeak 103.0°C

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		ECN NO.: ECN-633311

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