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"45-DAY SAFETY SCREENING RESULTS FOR TANK 241-U-102, PUSH MODE CORES 143 AND 144."

Franciska H. Steen

Westinghouse Hanford Company, Richland, WA 99352

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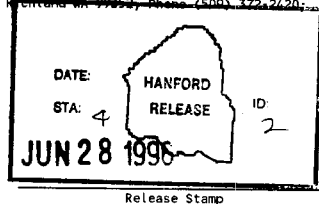
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WHC-SD-WM-DP-189, REV. 0

ANALYTICAL SERVICES

**45-DAY SAFETY SCREENING RESULTS FOR
TANK 241-U-102, PUSH MODE
CORES 143 AND 144**

Project Coordinator: FRANCISKA H. STEEN

Prepared for the U.S. Department of Energy
Office of Environmental Restoration
and Waste Management

by

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NARRATIVE

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222-S ANALYTICAL SERVICES

45-DAY SAFETY SCREENING RESULTS FOR TANK 241-U-102 CORES 143 AND 144

This document is the 45-day report deliverable for tank 241-U-102 push mode core segments collected between April 16, 1996 and May 6, 1996 and received by the 222-S Laboratory between April 17, 1996 and May 8, 1996. The segments were subsampled and analyzed in accordance with the *Tank 241-U-102 Push Mode Core Sampling and Analysis Plan* (TSAP) (Hu, 1996) and the *Safety Screening Data Quality Objective* (DQO) (Dukelow, et al., 1995). The analytical results are included in Table 1.

Attachment 1 is a cross reference to relate the tank farm identification numbers to the 222-S Laboratory LabCore sample numbers. The subsamples generated in the laboratory for analysis are identified in these diagrams with their sources shown. The diagram identifying the hydrostatic head fluid (HHF) blank is also included. Primary safety screening results and the raw data from Differential Scanning Calorimetry (DSC) and thermogravimetric analysis (TGA) analyses are included in this report.

Two of the samples submitted for DSC analysis exceeded notification limits as stated in the Safety Screening DQO (Dukelow, et al., 1995). Cyanide analysis was requested on these samples and a Reactive System Screening Tool analysis was requested for the sample exhibiting the highest exotherm in accordance with the TSAP (Hu, 1996). The results for these analyses will be reported in a revision to this document.

Appearance and Sample Handling

Core 143

Nine push mode core segments were removed from tank 241-U-102 riser 19 between April 16, 1996 and May 6, 1996. It should be noted that Segment 6A was sampled on May 6, 1996 following the collection of Core 144 segments; the sampler was empty. Segments were received by the 222-S Laboratory between April 17, 1996 and May 8, 1996. Three casks were received for segment 5: 5, 5A and 5B. Table 2 summarizes the extrusion information.

Core 144

Seven push mode core segments were removed from tank 241-U-102 riser 9 between April 26, 1996 and April 30, 1996. The segments were received by the 222-S Laboratory between April 30, 1996 and May 8, 1996. The results for DSC, TGA and total alpha analyses on segment 6A will be reported in an addendum to this report. This segment did not provide enough material to perform a bulk density analysis. Table 3 summarizes the extrusion information.

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Field Blank

A field blank was provided to the 222-S laboratory with core 144. It underwent the same analysis as the drainable liquid as instructed by the TSAP (Hu, 1996).

Hydrostatic Head Fluid

Lithium bromide solution was provided to the 222-S laboratory with core 144. It underwent Inductively Coupled Plasma Spectroscopy (ICP) and Ion Chromatography (IC) analyses as instructed by the TSAP (Hu, 1996). The results for these analyses will be reported in a revision to this document.

Liner Liquid

109.4 grams of liner liquid was recovered from Core 144 Segment 5. The TSAP does not address analyses for liner liquid. As per agreement with the TWRS representative, no analyses were performed and the sample was archived for possible future analyses.

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Table 2. Sample Receipt and Extrusion Information for 241-U-102, Core 143.

Customer ID	Segment	Date Sampled	Date Received	Date Extruded	Inches Extruded	Liquid Recovered (g)	Solids Recovered (g)	Sample Description
96-182	1	4/16/96	4/23/96	4/24/96	6.0	105.7-Drainable	171.5-upper half 49.0-lower half	The solids were dark gray in color and resembled a wet mixture of sludge and salicake. The liquid was yellow in color and clear.
96-183	2	4/16/96	4/17/96	4/24/96	19.0	0.0	228.9-upper half 172.2-lower half	The solids were medium gray in color and resembled a wet mixture of sludge and salicake.
96-184	3	4/16/96	4/17/96	4/24/96	19.0	0.0	203.3-upper half 198.6-lower half	The solids were medium gray in color and resembled a wet mixture of sludge and salicake.
96-185	4	4/16/96	4/23/96	4/24/96	19.0	0.0	210.2-upper half 206.2-lower half	The solids were medium gray in color and resembled a damp sludge.
96-186	5	4/16/96	4/23/96	4/29/96	5.0	109.4-Liner	80.6-whole segment	The solids were medium gray in color and resembled a damp crystalline salicake. The liner liquid was clear and colorless.
96-186A	5A	4/16/96	4/17/96	4/29/96	8.0	0.0	186.9-upper half	The solids were medium gray in color and resembled a damp crystalline salicake.
96-186B	5B	4/22/96	4/30/96	5/07/96	12.0	0.0	108.4-upper half 170.4-lower half	The solids were light to medium gray in color and resembled a wet crystalline salicake.
96-187	6	4/22/96	5/08/96	5/13/96	9.0	0.0	245.9-upper half	The solids were medium gray in color and resembled a moist salt.
96-187A	6A	5/06/96	5/08/96	5/13/96	0.0	0.0	0.0	Sampler empty.

* Approximate Inches Extruded

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Table 3. Sample Receipt and Extrusion Information for 241-U-102, Core 144.

Core ID	Segment	Date Sampled	Date Received	Date Extruded	Extruder	Liquid Recovered (g)	Solids Recovered (g)	Sample Description
Field Blank	FB	4/29/96	5/08/96	5/13/96	0.0	212.6-drainable	0.0	The drainable liquid was colorless and clear.
96-189	1	4/26/96	4/30/96	5/06/96	3.0	303.3-drainable	63.5	The drainable liquid was grayish brown in color and opaque. The solids were grayish brown in color and resembled a wet crystalline silicate.
96-190	2	4/26/96	4/30/96	5/06/96	16.0	0.0	169.7-upper half 205.1-lower half	The solids were medium gray in color and resembled a damp crystalline silicate.
96-191	3	4/29/96	4/30/96	5/06/96	14.0	0.0	167.3-upper half 149.5-lower half	The solids were medium gray in color and resembled a damp crystalline silicate.
96-192	4	4/29/96	5/08/96	5/13/96	19.0	0.0	234.6-upper half 224.4-lower half	The solids were medium gray in color and resembled a wet salt.
96-193	5	4/29/96	5/08/96	5/13/96	18.0	0.0	182.8-upper half 237.3-lower half	The solids were medium gray in color and resembled a moist salt.
96-194	6	4/30/96	5/08/96	5/13/96	13.0	0.0	134.6-upper half 161.2-lower half	The solids were light gray to medium gray in color and resembled a moist salt.
96-194A	6A	4/30/96	5/03/96	5/14/96	1.0	0.0	31.2-upper half	The solids were medium brown in color and resembled wet salt.

* Approximate Inches

Extruded Results Summary

The data summary table (Table 1) included in this report compiles the safety screening analytical results and applicable action limits associated with each subsample submitted.

Differential Scanning Calorimetry (DSC)

Two of the samples submitted for DSC analysis exceeded notification limits as stated in the Safety Screening DQO (Dukelow, et al., 1995). Cyanide analysis was requested on these samples and a Reactive System Screening Tool analysis was requested for the sample exhibiting the highest exotherm in accordance with the TSAP (Hu, 1996). The results for these analyses will be reported in a revision to this document.

The DSC analyses were performed in duplicate on direct subsamples. The exothermic energy based on dry weight of subsample was calculated for all subsamples. The average of the TGA results for each subsample was used in the dry weight correction for that subsample. The standard recovery for this analysis was within the required limits.

The results for six of the twenty-four subsamples were the sum of two or more exotherms. More information may be obtained by examining the raw data. The field blank result was 0.00 Joules/g.

Relative percent differences (RPD) greater than 20% were reported for twelve of the twenty-four subsamples. The high RPDs can be attributed to the small exotherms and the heterogenous nature of the samples. Selected samples had triplicate or rerun analyses performed because of the high RPDs and differences in the appearance between the thermograms of the sample and duplicate. The results of the triplicate wet weight DSCs are presented in Table 4. The results of the triplicate dry weight corrected DSCs are presented in Table 5. The results of the reruns can be found in the analytical results summary (Table 1).

Review of the data by the TWRS representative resulted in a request for DSC reruns on the following samples: S96T002646 and S96T002778. These results will be reported in a revision to this document.

Table 4. Triplicate Results for Wet Weight DSC Analysis

Customer ID	LabCore ID	Sample Result (Joules/g)	Duplicate Result (Joules/g)	Triplicate Result (Joules/g)	Mean (Joules/g)
96-185	S96T002344	0.0	11.7	16.3	9.3

Table 5. Triplicate Results for Dry Weight DSC Analysis

Customer ID	LabCore ID	Sample Result (Joules/g)	Duplicate Result (Joules/g)	Triplicate Result (Joules/g)	Mean (Joules/g)
96-185	S96T002344	0	15.45	16.3	10.6

Thermogravimetric Analysis (TGA)

The TGA analyses were performed in duplicate on direct subsamples. Typically results were determined by summing the weight loss steps which occurred below 200°C; weight loss steps above this were not used to determine the result with the following exceptions: the sample and duplicate results for S96T002776 and S96T002777 were the result of weight loss steps up to 420°C. The chemist noted that the data could not be retrieved from the data disk to reintegrate the results. The chemist also noted that had the sample results been integrated to 200°C, the results would have differed from the existing results by less than 2%. More information may be obtained by examining the raw data.

The field blank resulted in a mean of 99.45% moisture. Relative percent differences (RPD) greater than 20% were reported for five of the twenty-four subsamples. The high RPDs suggest a wide variance in sample matrix. Selected samples had reruns performed because of the high RPDs and differences in the appearance between the thermograms of the sample and duplicate. The results of the reruns can be found in the analytical results summary (Table 1). The standard recovery for this analysis was within the required limits.

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Review of the data by the TWRS representative resulted in a request for TGA reruns on the following samples: S96T002344, S96T002646, S96T002647 and S96T002636. These results will be reported in a revision to this document.

Density

Bulk density was performed on all of the twenty-four solid subsamples as required by the TSAP (Hu, 1996). The results of the bulk density test ranged from 1.55 g/mL to 1.88 g/mL. The higher bulk density of 1.88 g/mL was used to calculate the solid total alpha activity action limit for the tank.

Total alpha results for liquids do not require correction for density. The specific gravity results for the liquid samples will be reported in a revision to this document.

Total Alpha (AT)

The total alpha (AT) analyses were performed in duplicate on direct subsamples for the liquids. Solid subsamples were prepared for analysis by performing a fusion digest in duplicate. The fusion digest is indicated with an "F" in the aliquot class (A#) column in Table 1.

All liquid AT results were below the total alpha activity action limit of 61.5 $\mu\text{Ci/mL}$. All solid AT results were below the total alpha activity limit of 32.7 $\mu\text{Ci/g}$ (based on a bulk density of 1.88 g/mL). The field blank result was less than 4.62e-6 $\mu\text{Ci/mL}$. A high spike recovery was reported for sample S96T002549 and a low spike recovery was reported for sample S96T002662. This is attributable to low alpha activity and signifies no compromise in data quality. The standard recovery and RPDs for this analysis were within the required limits.

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Procedures

Table 6 lists the analytical procedures used for performing the sample analyses. Abbreviations for analyses are defined in the table notes.

Table 6. Analytical Procedures

Analysis	Sample Portion	Preparation Procedure +	Analysis Procedure
DSC	Solid/Liquid	N/A	LA-514-113, Rev. C-1 LA-514-114, Rev. C-1
TGA	Solid/Liquid	N/A	LA-514-114, Rev. C-1 LA-560-112, Rev. B-1
AT	Solid Liquid	LA-549-141, Rev. F-0 N/A	LA-508-101, Rev. D-2
Bulk Density	Solid	N/A	LO-160-103, Rev. B-0

Notes:

+ = preparation procedure is for fusion digest on solid

Abbreviations:

N/A = not applicable (these are direct samples)

DSC = differential scanning calorimetry

TGA = thermogravimetric analysis

AT = total alpha activity

References

Hu, T. A., 1996, *Tank 241-U-102 Push Mode Core Sampling and Analysis Plan*, WHC-SD-WM-TSAP-082, Rev. 0-A, Westinghouse Hanford Company, Richland, WA 99352.

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, WA 99352

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SAMPLE DATA SUMMARY

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28-Jun-1996 11:28:36
A-0002-345-Day Safety Screening Report Table 1
U-102CORE NUMBER: 143
SEGMENT #: 1

SEGMENT PORTION: U Upper Half of Segment

Sample#	R #/Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002325	Bulk Density of Sample	g/mL	Lower: None Upper: None	n/a	n/a	1.010	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961002326	DSC Exotherm Dry, Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	1.18e+02	n/a	115.4	4.68	n/a	n/a	n/a
S961002326	DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	480.0	n/a	69.30	66.60	68.20	4.69	n/a	n/a	n/a
S961002326	% Water by TGA using Mettler	%	None	98.89	n/a	41.30	40.30	40.90	2.93	n/a	n/a	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R #/Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002328	Bulk Density of Sample	g/mL	Lower: None Upper: None	n/a	n/a	1.010	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961002329	DSC Exotherm Dry, Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	1.10e+02	108.2	108.2	2.59	n/a	n/a	n/a
S961002329	DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	480.0	n/a	53.10	51.70	52.40	2.67	n/a	n/a	n/a
S961002329	% Water by TGA on Perkin Elmer	%	None	99.31	n/a	51.79	51.35	51.57	0.83	n/a	n/a	n/a
S961002443	F Alpha of Digested Solid	uCi/g	-1.0e+03	33.78	101.6	5.98e-02	5.91e-02	5.73e-02	6.10	90.23	1.10e-02	2.70e+01

Drainable Liquid: Drainable Liquid

Sample#	R #/Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002323	DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	n/a	1.22e+02	124.1	123.0	1.79	n/a	n/a	n/a
S961002323	DSC Exotherm Dry, Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	2.47e+02	251.3	249.1	1.81	n/a	n/a	n/a
S961002323	% Water by TGA using Mettler	%	None	98.07	n/a	50.93	50.28	50.61	1.28	n/a	n/a	n/a
S961002323	Alpha in Liquid Samples	uCi/mL	-1.0e+03	61.59	111.7	2.72e-02	2.60e-02	2.66e-02	4.51	100.8	1.80e-02	5.74e+01

=> Limit violated
=> Selected Limit

CORE NUMBER: 143
SEGMENT #: 2

INTERIM

45-Day Safety Screening Report Table 1
U-102

SEGMENT PORTION: U Upper Half of Segment

Sample#	R/A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
				Lower	Upper									
S96T002331		Bulk Density of Sample	g/ml	None	None	n/a	n/a	1.600	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T002332		DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	111.8	n/a	2.36e+02	288.9	262.6	20.0	n/a	n/a	n/a
S96T002332		DSC Exotherm Dry Calculated	Joules/g	-1.0e+03	480.0	n/a	n/a	4.81e+02	287.9	534.4	20.0	n/a	n/a	n/a
S96T002332		% Water by TGA using Mettler	%	None	None	97.94	n/a	50.30	31.41	50.85	2.18	n/a	n/a	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R/A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
				Lower	Upper									
S96T002334		Bulk Density of Sample	g/ml	None	None	n/a	n/a	1.600	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T002335		DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	111.8	n/a	3.07e+02	313.8	311.9	2.09	n/a	n/a	n/a
S96T002335		DSC Exotherm Dry Calculated	Joules/g	-1.0e+03	480.0	n/a	n/a	6.31e+02	424.8	617.9	2.09	n/a	n/a	n/a
S96T002335		% Water by TGA using Mettler	%	None	None	97.94	n/a	50.30	48.92	49.72	2.22	n/a	n/a	n/a
S96T002445	F	Alpha of Digested Solid	uCi/g	-1.0e+03	33.76	115.6	-9.50e-03	1.33e-01	1.48e-01	1.41e-01	10.7	99.72	2.30e-02	2.39e+01

=> Limit Violated
=> Selected Limit

28-Jun-1996 11:53:46
A-0002-3

INTERIM

45-Day Safety Screening Report Table 1
U-102

CORE NUMBER: 143
SEGMENT #: 3

SEGMENT PORTION: U Upper Half of Segment

Sample#	R #	Analyte	Unit	Action Limits		Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002337		Bulk Density of Sample	g/mL	None	Upper	n/a	1.650	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961002338		DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	n/a	61.00	64.80	62.90	6.04	n/a	n/a	n/a
S961002338		DSC Exotherm Dry Calculated	Joules/g	-1.0e+03	480.0	n/a	1.08e+02	114.2	110.8	6.04	n/a	n/a	n/a
S961002338		% Water by TGA using Mettler	%	None	None	n/a	42.34	43.60	43.27	1.53	n/a	n/a	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R #	Analyte	Unit	Action Limits		Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002340		Bulk Density of Sample	g/mL	None	Upper	n/a	1.640	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961002341		DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	n/a	65.70	86.50	76.10	27.3	n/a	n/a	n/a
S961002341		DSC Exotherm Dry Calculated	Joules/g	-1.0e+03	480.0	n/a	97.17	127.9	112.5	27.3	n/a	n/a	n/a
S961002341		% Water by TGA using Mettler	%	None	None	n/a	31.61	33.17	32.39	4.82	n/a	n/a	n/a
S961002447	P	Alpha of Digested Solid	UG/g	-1.0e+03	32.78	115.6	1.47e-01	1.54e-01	1.50e-01	4.65	n/a	2.30e-02	2.28E+01

=> Limit violated
=> Selected Limit

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INTERIM

45-Day Safety Screening Report Table 1
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CORE NUMBER: 143
SEGMENT #: 4

SEGMENT PORTION: U Upper Half of Segment

Sample#	R #	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
			Lower									
5961002343		Bulk Density of Sample	Upper			1.620					5.00e-01	
5961002344		DSC Exotherm Dry - Calculated	None		n/a	0.00e+00					n/a	n/a
5961002344		DSC Exotherm on Perkin Elmer	-1.0e+03	98.46	n/a	15.45		7.725	200	n/a	n/a	n/a
5961002344		% Water by TGA on Perkin Elmer	-1.0e+03	98.46	n/a	0.00e+00		5.630	200	n/a	n/a	n/a
5961002344		% Water by TGA on Perkin Elmer	None	98.46	n/a	23.22		16.61	41.2	n/a	n/a	n/a
5961002344		% Water by TGA on Perkin Elmer	None	100.4	n/a	28.10		29.93	72.4	n/a	n/a	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R #	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
			Lower									
5961002346		Bulk Density of Sample	Upper			1.610					5.00e-01	
5961002347		DSC Exotherm Dry - Calculated	None		n/a	0.00e+00					n/a	n/a
5961002347		DSC Exotherm on Perkin Elmer	-1.0e+03	98.46	n/a	106.0		52.10	200	n/a	n/a	n/a
5961002347		% Water by TGA on Perkin Elmer	-1.0e+03	98.46	n/a	0.00e+00		28.40	200	n/a	n/a	n/a
5961002347		% Water by TGA on Perkin Elmer	None	98.46	n/a	46.82		65.01	8.04	n/a	n/a	n/a
5961002449	F	Alpha of Digested Solid	-1.0e+03	109.4	<5.25e-03	2.13e-01	2.36e-01	2.24e-01	10.2	n/a	7.00e-03	1.20e+01

=> Limit Violated
=> Selected Limit

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INTERIM

45-Day Safety Screening Report Table 1
U-102

CORE NUMBER: 143
SEGMENT #: 5

SEGMENT PORTION: W Whole Segment

Sample#	R #/Analyte	Unit	Action Limits		Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
			Lower	Upper								
S961002498	Bulk Density of Sample	g/mL	None	None	n/a	1.880	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961002500	DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	n/a	16.60	15.50	16.05	6.85	n/a	n/a	n/a
S961002500	DSC Exotherm Dry Calculated	Joules/g	-1.0e+03	480.0	n/a	19.79	18.47	19.13	6.90	n/a	n/a	n/a
S961002500	% Water by TGA using Mettler	%	None	None	n/a	15.72	16.48	16.10	4.72	n/a	n/a	n/a
S961002518	F Alpha of Digested Solid	uCi/g	-1.0e+03	33.70	<5.25e-03	8.31e-02	-6.54e-02	7.42e-02	23.8	93.31	7.00e-03	1.90e+01

==> Limit Violated
==> Selected Limit

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INTERIM

45-Day Safety Screening Report Table 1 U-102

CORE NUMBER: 143
SEGMENT #: 5A

SEGMENT PORTION: U Upper Half of Segment

Sample#	R #	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002409		Bulk Density of Sample	g/ml	None	n/a	n/a	17.0	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961002501		DSC Exotherm using Mettler	Joules/g	-1.0e+03	101.9	n/a	19.0	15.59	17.25	20.3	n/a	n/a	n/a
S961002501		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	n/a	n/a	22.93	18.71	20.82	20.3	n/a	n/a	n/a
S961002501		% Water by TGA using Mettler	%	None	98.89	n/a	17.18	17.11	17.15	0.41	n/a	n/a	n/a

=> Limit violated
=> Selected Limit

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INTERIM

45-Day Safety Screening Report Table 1
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CORE NUMBER: 143
SEGMENT #: 58

SEGMENT PORTION: U Upper Half of Segment

Sample#	R #/W	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD % Spk Rec %	Det Limit	Count Err%
				Lower	Upper								
S961002663		Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.650	n/a	1.6	n/a	5.00e-01	n/a
S961002665		DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	111.1	n/a	1.94e+02	98.10	1.5	n/a	n/a	n/a
S961002665		DSC Exotherm Dry Calculated	Joules/g	-1.0e+03	480.0	n/a	n/a	3.05e+02	34.4	2.5	n/a	n/a	n/a
S961002665	1	DSC Exotherm Dry Calculated	Joules/g	-1.0e+03	480.0	n/a	n/a	2.58e+02	222.7	2.6	n/a	n/a	n/a
S961002665	1	DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	480.0	94.94	n/a	1.64e+02	141.5	15.9	n/a	n/a	n/a
S961002665		% Water by TGA using Mettler	%	None	None	98.89	n/a	40.24	32.66	36.45	20.8	n/a	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R #/W	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD % Spk Rec %	Det Limit	Count Err%
				Lower	Upper								
S961002664		Bulk Density of Sample	g/mL	None	None	n/a	n/a	550	n/a	n/a	n/a	5.00e-01	n/a
S961002666		DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	111.1	n/a	97.40	111.8	104.6	13.8	n/a	n/a
S961002666		DSC Exotherm Dry Calculated	Joules/g	-1.0e+03	480.0	n/a	n/a	1.72e+02	201.8	188.8	13.8	n/a	n/a
S961002666		% Water by TGA using Mettler	%	None	None	98.89	n/a	46.26	42.96	44.61	7.40	n/a	n/a
S961002672	F	Alpha of Digested Solid	uCi/g	-1.0e+03	33.20	113.23	<2.7e+03	1.06e-01	1.21e-01	1.13e-01	13.2	103.3	1.72E+01

=> Limit violated
=> Selected Limit

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45-Day Safety Screening Report Table 1
U-102

CORE NUMBER: 143
SEGMENT #: 6

SEGMENT PORTION: U Upper Half of Segment

Sample#	RA#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002754		Bulk Density of Sample	g/ml	None	Upper	None	n/a	1.610	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T002755		DSC Exotherm using Mettler	Joules/g	-1.0e+03	None	112.1	n/a	70.20	62.20	66.20	12.1	n/a	n/a	n/a
S96T002755		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	488.8	n/a	n/a	1.19e+02	105.8	112.6	12.1	n/a	n/a	n/a
S96T002755		% Water by TGA using Mettler	%	None	None	98.68	n/a	41.68	40.70	41.19	2.38	n/a	n/a	n/a

=> Limit violated
=> Selected Limit

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45-Day Safety Screening Report Table 1
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CORE NUMBER: 144
SEGMENT #: FB

SEGMENT PORTION: Drainable Liquid

Sample#	RAW Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD, % Spk	Rec. %	Det Limit	Count Err%
S95002762	ISC Exotherm using Mettler	Joules/g	Lower -1.0e+03	110.4	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95002762	ISC Exotherm DRY Calculated	Joules/g DRY	-1.0e+03	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95002762	% Water by TGA using Mettler	%	None	98.58	n/a	99.03	99.87	99.45	0.84	n/a	n/a	n/a
S95002762	Alpha in Liquid Samples	UCI/mL	-1.0e+03	103.9	-4.67e-04	-4.62e-06	-5.41E-6	n/a	n/a	91.64	1.10e-05	5.00E+02

⇒ Limit violated
⇒ Selected Limit

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INTERIM

45-Day Safety Screening Report Table 1
U-102

CORE NUMBER: 144
SEGMENT #: 1

SEGMENT PORTION: L Lower Half of Segment

Sample#	R#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002551		Bulk Density of Sample	g/mL	None	n/a	n/a	1.670	n/a	n/a	n/a	n/a	5.10e-01	n/a
S961002632		DSC Exotherm using Mettler	Joules/g	-1.0e+03	112.5	n/a	46.50	41.90	45.20	14.6	n/a	n/a	n/a
S961002632		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	n/a	n/a	80.15	69.24	74.69	14.6	n/a	n/a	n/a
S961002632		% Water by TGA using Mettler	%	None	98.36	n/a	40.77	38.20	39.48	6.51	n/a	n/a	n/a
S961002648	F	Alpha of Digested Solid	uCi/g	-1.0e+03	105.5	n/a	6.24e-01	6.44e-01	6.34e-01	3.15	89.69	1.80e-02	1.03E-01

Drainable Liquid: Drainable Liquid

Sample#	R#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002549		DSC Exotherm using Mettler	Joules/g	-1.0e+03	110.4	n/a	1.12e+02	146.6	129.1	27.2	n/a	n/a	n/a
S961002549		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	n/a	n/a	2.08e+02	272.8	240.2	27.2	n/a	n/a	n/a
S961002549		% Water by TGA using Mettler	%	None	98.38	n/a	52.29	40.23	46.26	26.1	n/a	n/a	n/a
S961002549		Alpha in Liquid Samples	uCi/mL	-1.0e+03	112.5	<7.43e-03	2.95e-02	4.24e-02	3.58e-02	36.5	128.1	1.70e-02	6.51E-01

=> Limit Violated
=> Selected Limit

INTERIM

45-Day Safety Screening Report Table 1
U-102

CORE NUMBER: 144
SEGMENT #: 2

SEGMENT PORTION: U Upper Half of Segment

Sample#	R/A#	Analyte	Unit	Action Limits	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002554		Bulk Density of Sample	g/mL	None	n/a	1.670	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T002646		DSC Exotherm Dry Calculated	Joules/g	-1.0e+03	n/a	53.04	2.180	27.61	184	n/a	n/a	n/a
S96T002646		DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	92.97	39.40	1.620	20.51	184	n/a	n/a	n/a
S96T002646		% Water by TGA on Perkin Elmer	%	None	99.32	38.23	12.51	25.72	103	n/a	n/a	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R/A#	Analyte	Unit	Action Limits	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002552		Bulk Density of Sample	g/mL	None	n/a	1.818	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T002633		DSC Exotherm using Mettler	Joules/g	-1.0e+03	112.5	69.20	68.10	68.65	1.60	n/a	n/a	n/a
S96T002633		DSC Exotherm Dry Calculated	Joules/g	-1.0e+03	n/a	1.04e+02	102.8	103.6	1.54	n/a	n/a	n/a
S96T002633		% Water by TGA using Mettler	%	None	98.36	33.61	33.85	33.73	0.71	n/a	n/a	n/a
S96T002649	F	Alpha of Digested Solid	UC/g	-1.0e+03	111.7	1.63e-01	1.58e-01	1.61e-01	3.12	87.19	6.00e-03	1.29E-01

=> Limit violated
=> Selected Limit

INTERIM

45-Day Safety Screening Report Table 1
U-102

CORE NUMBER: 144
SEGMENT #: 3

SEGMENT PORTION: U Upper Half of Segment

Sample#	R/A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002553		Bulk Density of Sample	g/mL	Lower: None Upper: None	n/a	n/a	1.710	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T002636		DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	n/a	18.30	29.60	23.95	47.3	n/a	n/a	n/a
S96T002647		DSC Exotherm Dry Calculated	Joules/g	-1.0e+03	480.0	n/a	20.33	32.55	26.30	47.5	n/a	n/a	n/a
S96T002647		% Water by TGA using Mettler	%	None	98.36	n/a	7.680	10.46	9.070	30.7	n/a	n/a	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R/A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002553		Bulk Density of Sample	g/mL	Lower: None Upper: None	n/a	n/a	1.700	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T002636		DSC Exotherm Dry Calculated	Joules/g	-1.0e+03	480.0	n/a	24.07	29.36	26.71	19.8	n/a	n/a	n/a
S96T002636		DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	480.0	n/a	18.20	22.20	20.20	19.8	n/a	n/a	n/a
S96T002636		% Water by TGA on Perkin Elmer	%	None	99.32	n/a	11.72	37.05	24.38	104	n/a	n/a	n/a
S96T002662	F	Alpha of Digested Solid	uCi/g	-1.0e+03	102.3	n/a	1.21e-01	1.29e-01	1.25e-01	6.40	77.44	5.00e-03	1.06e+01

=> Limit Violated
=> Selected Limit

INTERIM

45-Day Safety Screening Report Table 1
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CORE NUMBER: 144
SEGMENT #: 4

SEGMENT PORTION: U Upper Half of Segment

Sample#	RAP Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD % Spk Rec %	Det Limit	Count Err%
S961002775	DSC Exotherm using Mettler	Joules/g	Lower -1.0e+03	112.1	n/a	35.10	36.00	35.55	2.53	n/a	n/a
S961002775	DSC Exotherm Dry Calculated	Joules/g Dry	Upper 480.0	n/a	n/a	45.17	46.32	45.75	2.51	n/a	n/a
S961002775	% Water by TGA using Mettler	%	None	98.36	n/a	24.47	20.10	22.29	19.6	n/a	n/a
S961002781	Bulk Density of Sample	g/mL	None	n/a	n/a	1.700	n/a	n/a	n/a	5.00e-01	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	RAP Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD % Spk Rec %	Det Limit	Count Err%
S961002776	DSC Exotherm using Mettler	Joules/g	Lower -1.0e+03	116.9	n/a	29.80	41.70	35.75	33.3	n/a	n/a
S961002776	DSC Exotherm Dry Calculated	Joules/g Dry	Upper 480.0	n/a	n/a	42.57	59.57	51.07	33.3	n/a	n/a
S961002776	% Water by TGA using Mettler	%	None	99.09	n/a	30.10	29.90	30.00	0.67	n/a	n/a
S961002782	Bulk Density of Sample	g/mL	None	n/a	n/a	1.610	n/a	n/a	n/a	5.00e-01	n/a
S961002796	F Alpha of Digested Solid	UC/g	-1.0e+03	116.8	n/a	3.45e-01	3.47e-01	3.46e-01	0.58	99.44	1.30e-02

⇒ Limit violated
⇒ Selected Limit

INTERIM

45-Day Safety Screening Report Table 1
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CORE NUMBER: 144
SEGMENT #: 5

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002777		DSC Exotherm using Mettler	Joules/g	Lower -1.0e+03	114.9	n/a	87.60	99.00	93.30	12.2	n/a	n/a	n/a
S961002777		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	n/a	n/a	1.34e+02	151.8	143.1	12.2	n/a	n/a	n/a
S961002777		% Water by TGA using Mettler	%	None	99.09	n/a	35.90	33.70	34.80	6.32	n/a	n/a	n/a
S961002783		Bulk Density of Sample	g/mL	None	n/a	n/a	1.630	n/a	n/a	n/a	n/a	5.00e-01	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002778		DSC Exotherm using Mettler	Joules/g	Lower -1.0e+03	113.2	n/a	1.39e+02	59.50	99.25	80.1	n/a	n/a	n/a
S961002778		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	n/a	n/a	2.26e+02	96.81	161.5	80.1	n/a	n/a	n/a
S961002778		% Water by TGA using Mettler	%	None	99.39	n/a	40.04	37.04	38.54	7.78	n/a	n/a	n/a
S961002784		Bulk Density of Sample	g/mL	None	n/a	n/a	1.770	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961002797	F	Alpha of Digested Solid	Uc/g	-1.0e+03	114.8	n/a	1.66e-01	1.67e-01	1.67e-01	0.60	n/a	1.30e-02	1.72E+01

=> Limit Violated
=> Selected Limit

INTERIM

45-Day Safety Screening Report Table 1
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CORE NUMBER: 144
SEGMENT #: 6

SEGMENT PORTION: U Upper Half of Segment

Sample#	R #/Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPO %	Spk Rec %	Det Limit	Count Err%
S961002779	OSC Exotherm using Mettler	Joules/g	Upper: 280.0 Lower: -1.0e+03	113.2	n/a	63.20	76.60	69.90	19.2	n/a	n/a	n/a
S961002779	OSC Exotherm Dry Calculated	Joules/g	Upper: 280.0 Lower: -1.0e+03	n/a	n/a	1.34e+02	162.2	148.0	19.2	n/a	n/a	n/a
S961002779	% Water by IGA using Mettler	%	None	99.59	n/a	50.10	55.46	52.78	10.2	n/a	n/a	n/a
S961002785	Bulk Density of Sample	g/mL	None	n/a	n/a	1.610	n/a	n/a	n/a	n/a	5.00e-01	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R #/Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPO %	Spk Rec %	Det Limit	Count Err%
S961002780	OSC Exotherm using Mettler	Joules/g	Upper: 280.0 Lower: -1.0e+03	110.7	n/a	14.40	19.80	17.10	31.6	n/a	n/a	n/a
S961002780	OSC Exotherm Dry Calculated	Joules/g	Upper: 280.0 Lower: -1.0e+03	n/a	n/a	25.94	35.67	30.80	31.6	n/a	n/a	n/a
S961002780	% Water by IGA using Mettler	%	None	99.49	n/a	44.90	44.08	44.49	1.84	n/a	n/a	n/a
S961002786	Bulk Density of Sample	g/mL	None	n/a	n/a	3.670	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961002798	F Alpha of Digested Solid	uc/g	Upper: 33.76 Lower: -1.0e+03	109.4	n/a	8.49e-02	8.18e-02	8.34e-02	3.72	92.76	1.00e-02	2.07e+01

=> Limit violated
=> Selected Limit

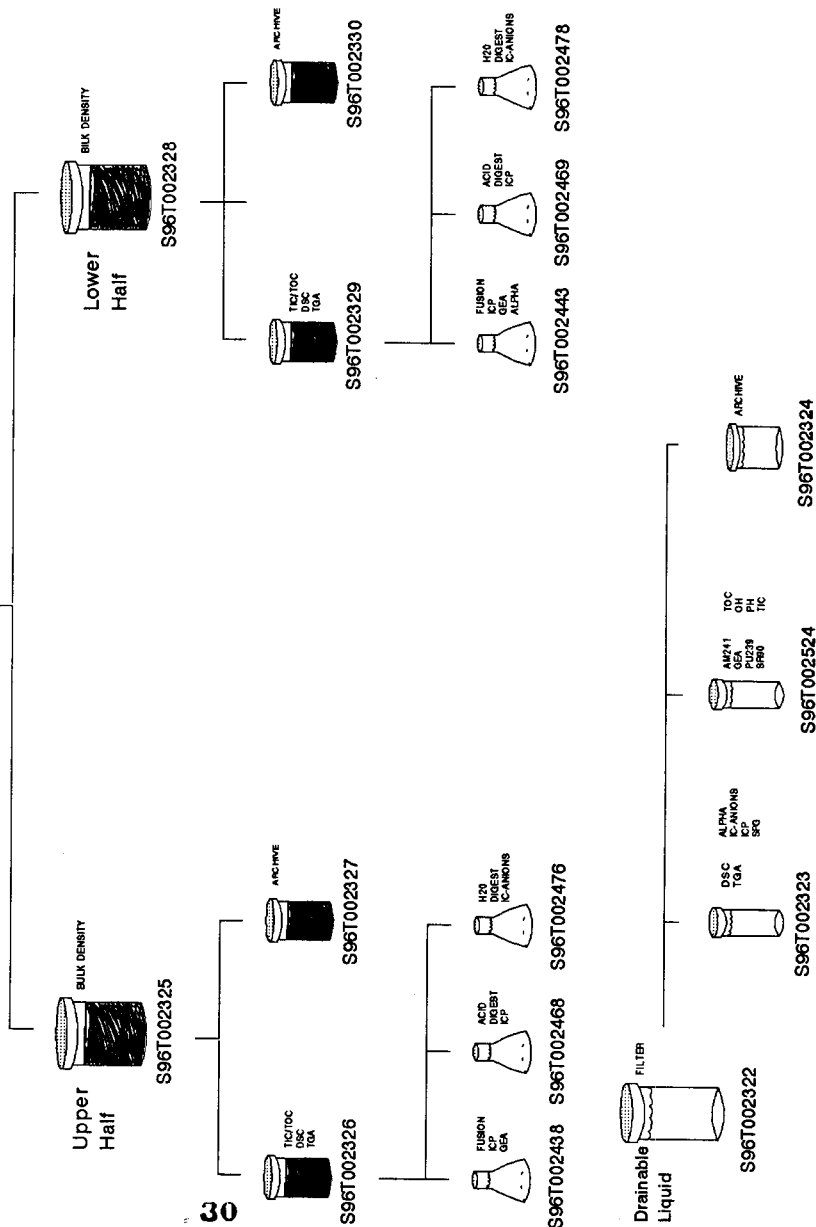
WHC-SD-WM-DP-189, REV. 0

ATTACHMENT 1

U-102 PUSH MODE CORE SAMPLE BREAKDOWNS

WHC-SD-WM-DP-189, REV. 0

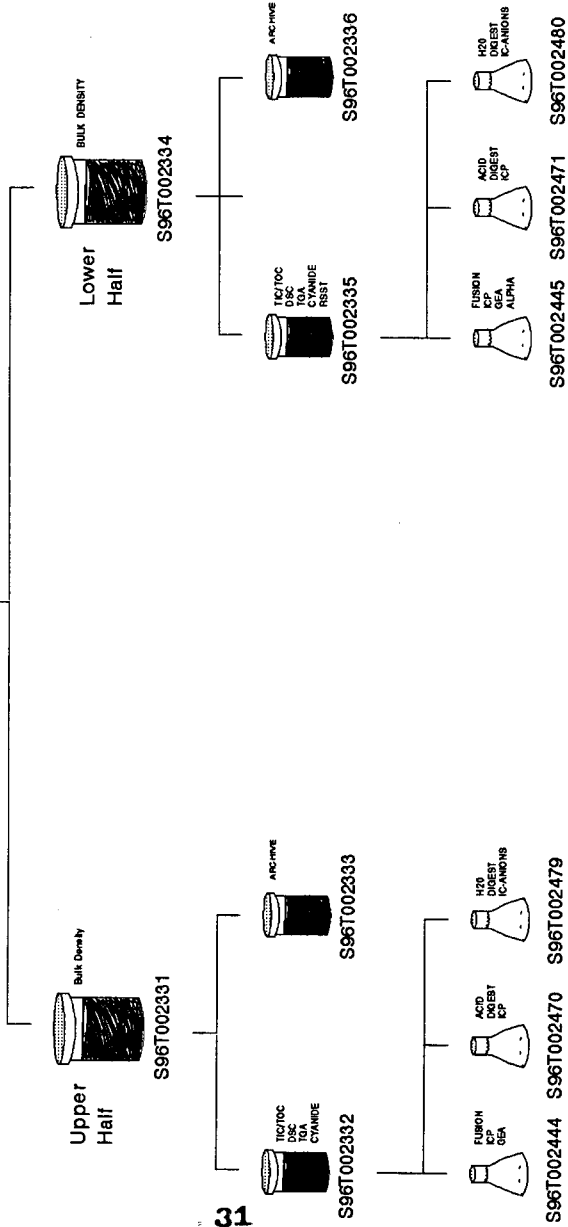
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U-102
Core:143
Seg: 2
S96T002187

Attachment 1
Page 2 of 17

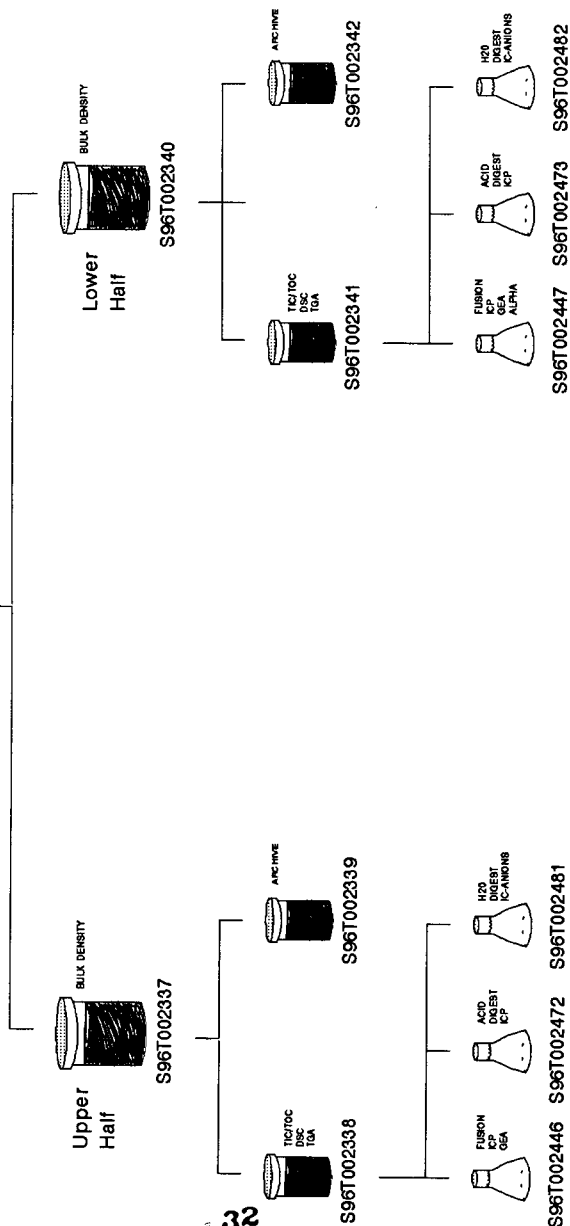
WHC-8D-WM-DP-189, REV. 0



U-102
Core:143
Seg: 3
S96T002188

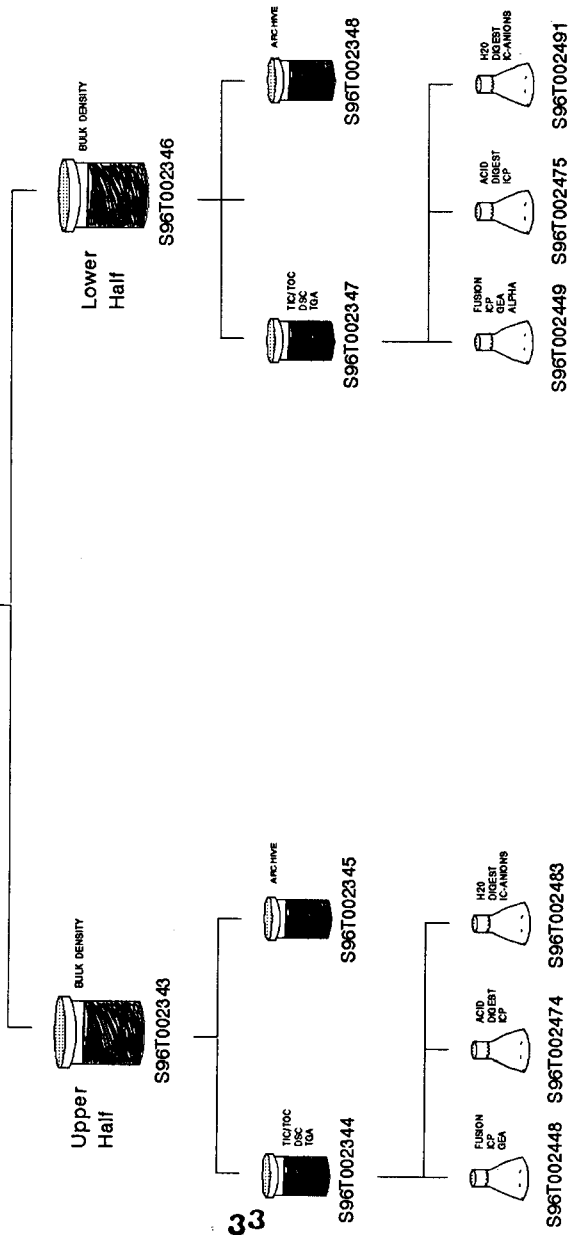
Attachment 1
Page 3 of 17

WHC-SD-WM-DP-189, REV. 0

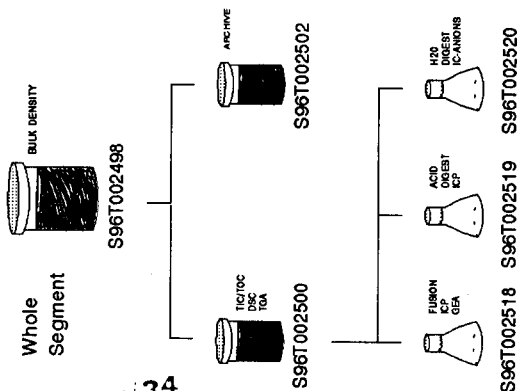


U-102
Core:143
Seg: 4
S96T002189

Attachment 1
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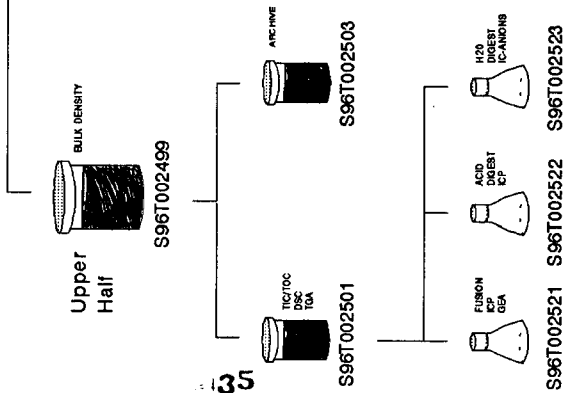
U-102
Core:143
Seg: 5
S96T002190



U-102
Core:143
Seg: 5A
S96T002191

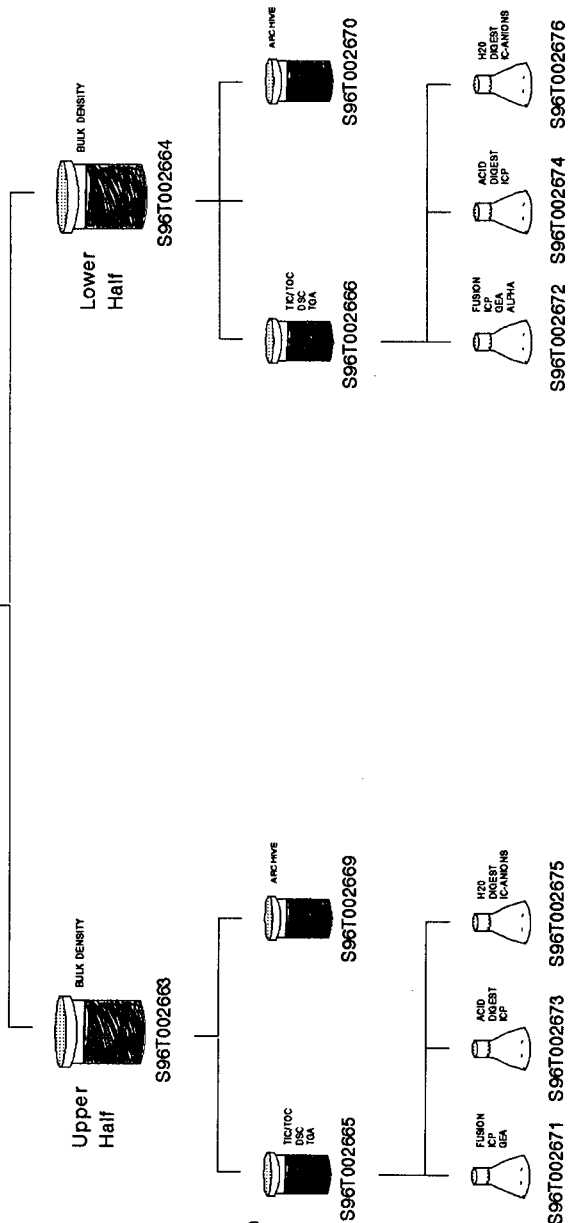
Attachment 1
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WHC-SD-WM-DP-189, REV. 0



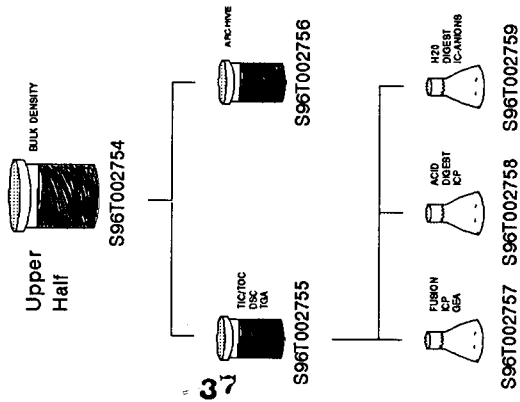
U-102
Core:143
Seg: 5B
S96T002509

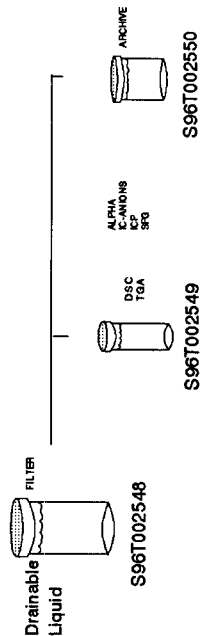
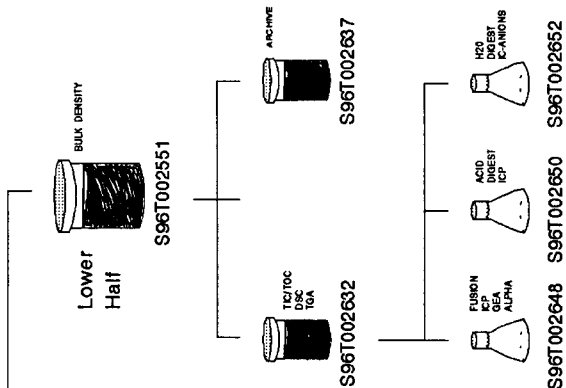
Attachment 1
Page 7 of 17

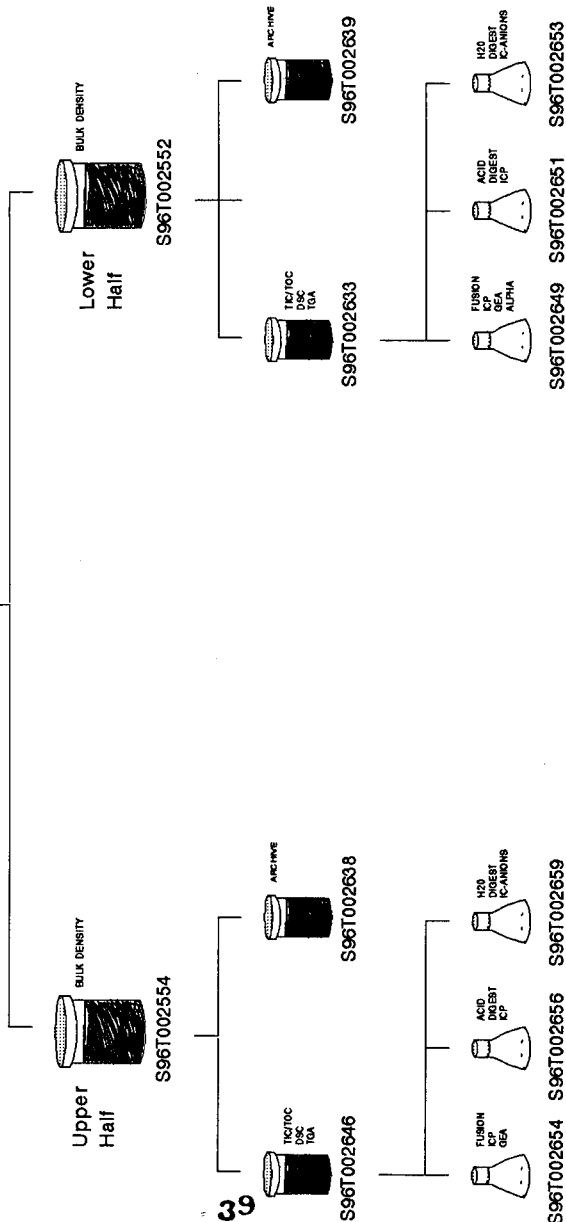


U-102
Core:143
Seg: 6
S96T002626

Attachment 1
Page 8 of 17



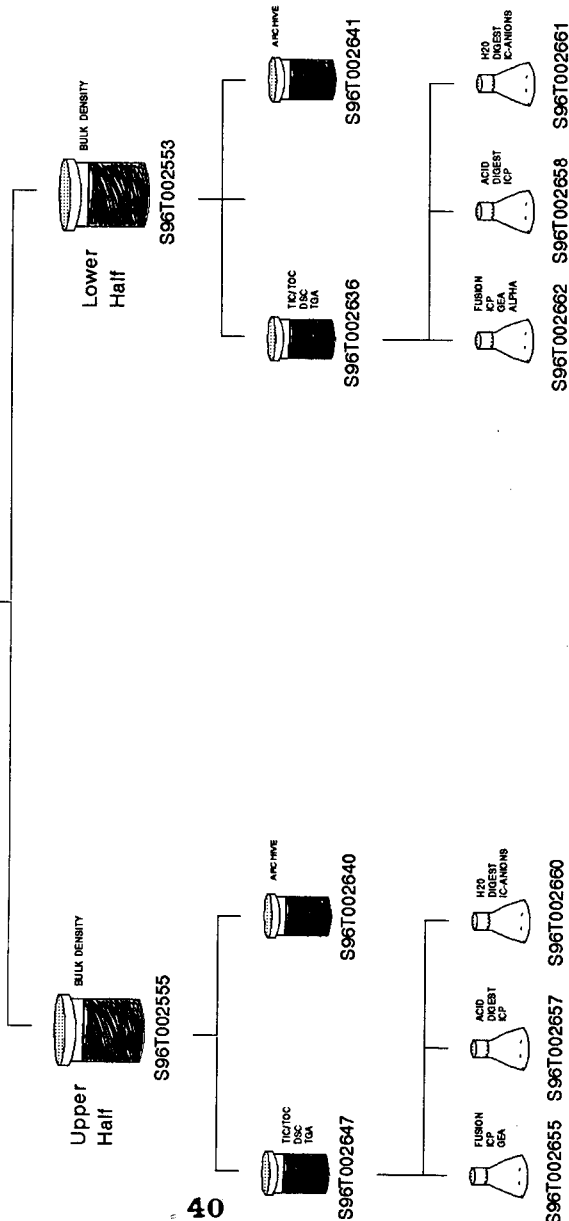




U-102
Core:144
Seg: 3
S96T002494

Attachment 1
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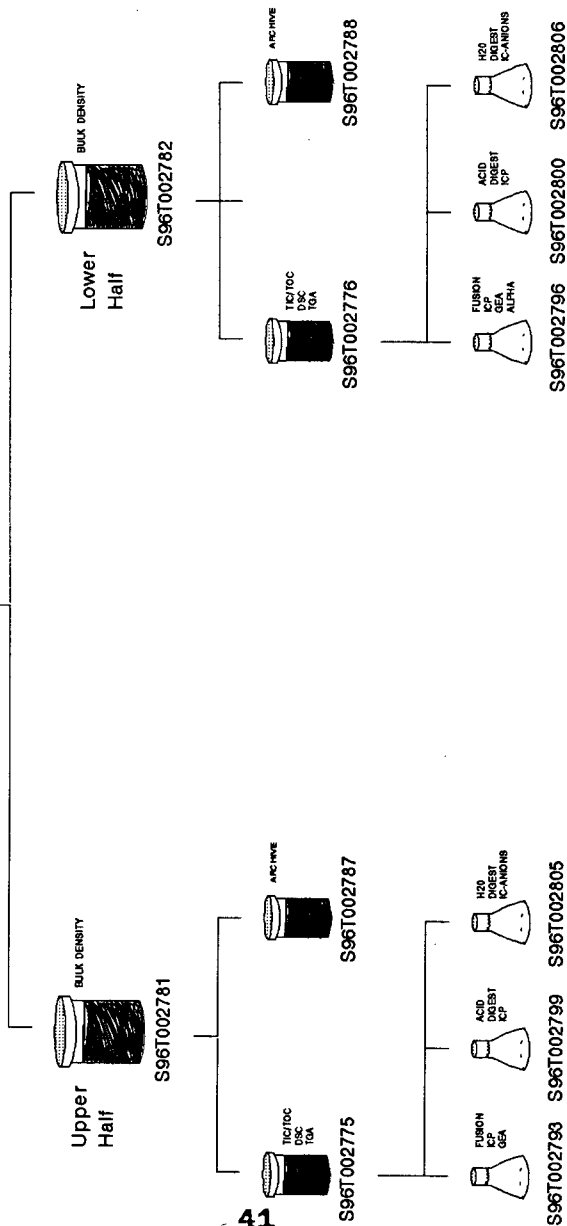
WHC-SD-WM-DP-189, REV. 0



U-102
Core:144
Seg: 4
S96T002628

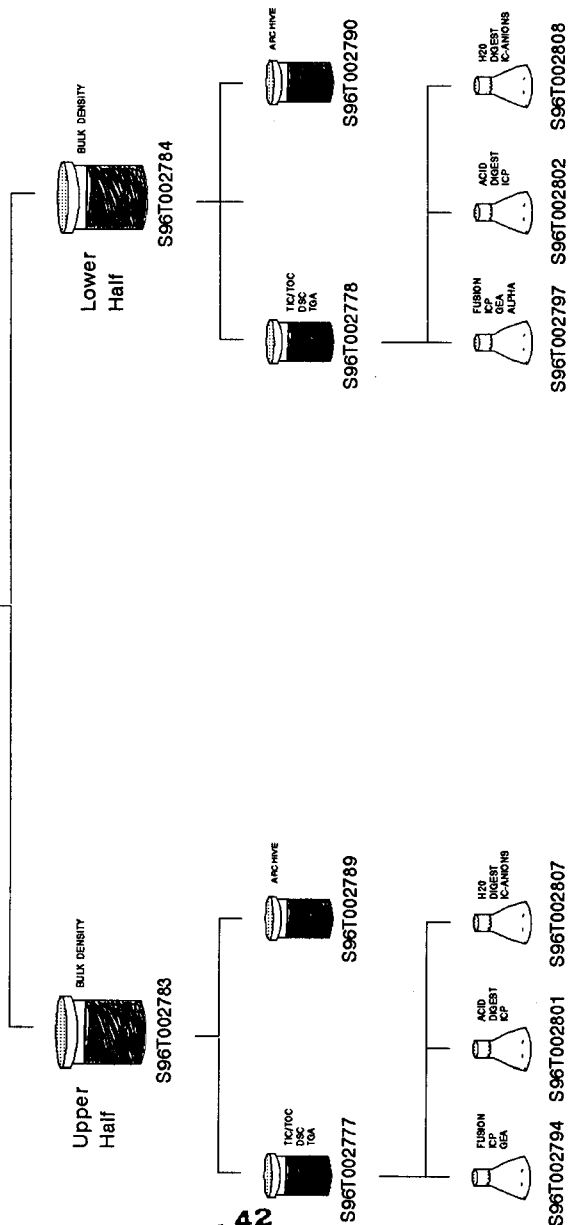
Attachment 1
Page 12 of 17

WHC-SD-WM-DP-189, REV. 0



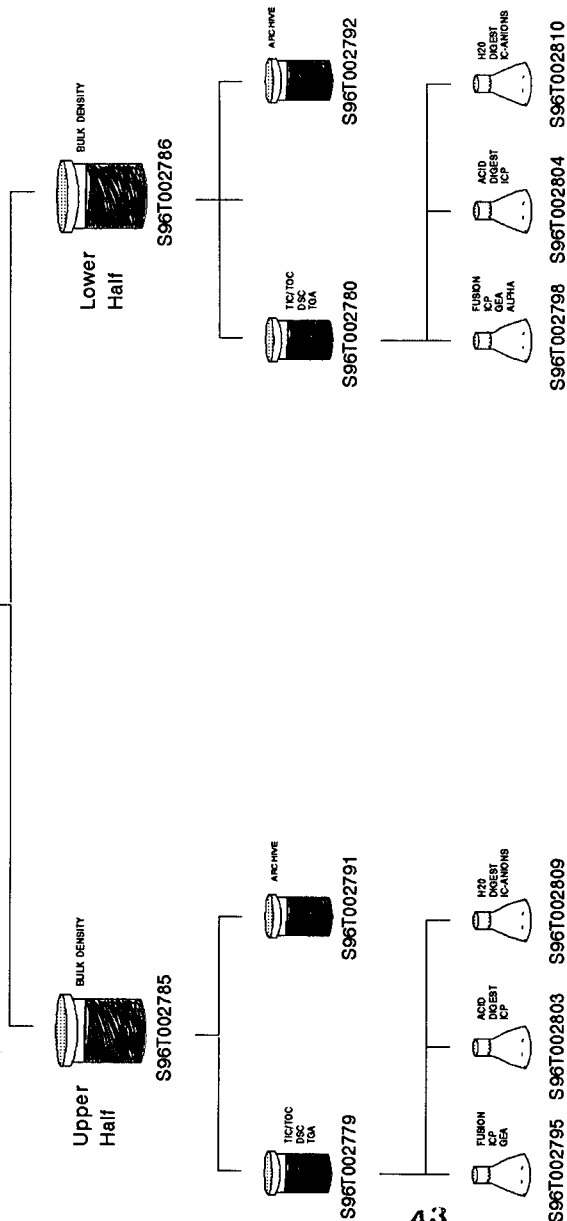
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Core:144
Seg: 5
S96T002629

Attachment 1
Page 13 of 17

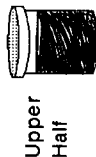


U-102
Core:144
Seg: 6
S96T002630

Attachment 1
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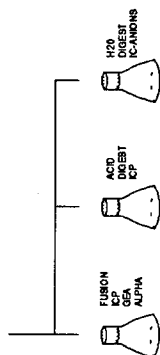
U-102
Core:144
Seg: 6A
S96T002510



S96T002845



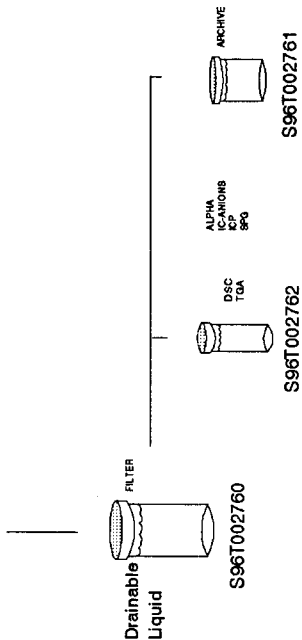
S96T003609



S96T003610 S96T003611 S96T003612

U-102
Core:144
Seg: FB
S96T002631

Attachment 1
Page 16 of 17

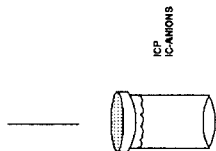


WHC-SD-WM-DP-189, REV. 0

U-102
Core:144
Seg: LiBr
S96T002511

Attachment 1
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WHC-SD-WM-DP-189, REV. 0



WHC-SD-WM-DP-189, REV. 0

CHAIN OF CUSTODY FORMS

WHC-SD-WM-DP-189, REV. 0

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CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-TF (2) Sample Number 96-182 (3) Super vior Danew J. Pomeroy 92-4-16-9
 (4) Tank 4102 (5) Riser 19 (6) S-gment 1 (7) Cor 143 (8) Cask Serial Number C 70470
1055

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate	<u>2.5 mR/hr</u>		<u>1 mR/hr</u>		A. Work Package Number	<u>45-96-00058/0</u>	
Side Dose Rate	<u>1 mR/hr</u>		<u>22 mR/hr</u>		B. Cask Seal Number	<u>11426</u>	
Bottom Dose Rate	<u>15 mR/hr</u>		<u>8 mR/hr</u>		C. Sampler Serial Number	<u>95-3105</u>	
Measurable Contamination	<u>220 dpm/100 cm²</u>		<u>520 dpm</u>		D. Date and Time Sampler Unsealed	<u>4-16-96</u>	<u>0137</u>
	<u>41 dpm/100 cm²</u>		<u>5100 dpm</u>		E. Expected Liquid Content	<u>10%</u>	
	<u>100 dpm</u>		<u>100 dpm</u>		F. Expected Solid Content	<u>90%</u>	
	<u>100 dpm</u>		<u>100 dpm</u>		G. Dose Rate Through Drill String	<u>1-2 R/hr</u>	
	<u>100 dpm</u>		<u>100 dpm</u>		H. Expected Sample Length	<u>19"</u>	

(11) INFORMATION (include statement of laboratory tests to be performed.)

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WHC-SD-WM-DP-189, REV. 0

(12) Field Comments		(14) Laboratory Comments		(34) Laboratory Comments	
(13) Point of Origin <u>4102</u>	(14) Destination <u>2225</u>	(15) Sender Name (Sign and PRINT) <u>W. J. Pomeroy</u>	(16) Date/Time <u>4-22-96</u>	(17) Sender Comments	
(19) Requisitioned By (Sign and PRINT) <u>W. J. Pomeroy</u>	(20) Received By (Sign and PRINT) <u>W. J. Pomeroy</u>	(21) Date/Time <u>4-22-96</u>	(22) Receiver Comments		
(23) Requisitioned By (Sign and PRINT) <u>W. J. Pomeroy</u>	(24) Received By (Sign and PRINT) <u>W. J. Pomeroy</u>	(25) Date/Time <u>4-22-96</u>	(26) Receiver Comments		
(27) Requisitioned By (Sign and PRINT) <u>W. J. Pomeroy</u>	(28) Received By (Sign and PRINT) <u>W. J. Pomeroy</u>	(29) Date/Time <u>4-22-96</u>	(30) Receiver Comments		

(31) Seal Data Consistent with this Record?

(18) Seal Intact Upon Receipt?

(19) Seal Intact Upon Release?

Shipment No.

Cask Seal No.

Sample No.

☒ Yes ☐ No

☒ Yes ☐ No

☒ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Shipment Number 20010101E (2) Sample Number 96-183 (3) Supervisor Daren Z. Lane (8) Cast Serial Number 1040
 Tank 4102 (5) Riser 19 (6) Segments 2 (7) Core

(31) FIELD		(32) LABORATORY		(33) Shipment Description	
Addition Survey Data:		Work Package Number		WS-96-0005810	
Over Top Dose Rate	<u>20.5 m/min</u>	Cast Seal Number		<u>10396</u>	
Side Dose Rate	<u>24 m/min</u>	Sampler Serial Number		<u>95-1355</u>	
Bottom Dose Rate	<u>10 m/min</u>	Date and Time Sampler Unseated		<u>4-16-96 04:56</u>	
Sealer Contamination	<u>220</u>	Expected Liquid Content		<u>10%</u>	
	<u>21K</u>	Expected Solid Content		<u>90%</u>	
	<u>21K</u>	Dose Rate Through Drill String		<u>1.22 lb/hr</u>	
	<u>21K</u>	Expected Sample Length		<u>19'</u>	

(11) INFORMATION (Include statement of laboratory tests to be performed.)

WHC-SD-WM-DP-189, REV. 0

(34) Laboratory Comments		(35) Sender Name (S-10 and PRINT)		(36) Receiver Name (S-10 and PRINT)	
(13) Point of Origin	<u>4102</u>	(14) Destination	<u>2225</u>	(16) Date/Time	<u>4-15-96/10:35</u>
(17) Field Comments		(18) Date/Time	<u>4-17-96/10:35</u>	(19) Date/Time	<u>4-17-96/10:35</u>
(20) Received By (Sign and PRINT)	<u>[Signature]</u>	(21) Received By (Sign and PRINT)	<u>[Signature]</u>	(22) Receiver Comments	
(23) Relinquished By (Sign and PRINT)	<u>[Signature]</u>	(24) Relinquished By (Sign and PRINT)	<u>[Signature]</u>	(25) Receiver Comments	
(26) Relinquished By (Sign and PRINT)	<u>[Signature]</u>	(27) Relinquished By (Sign and PRINT)	<u>[Signature]</u>	(28) Receiver Comments	
(29) Relinquished By (Sign and PRINT)	<u>[Signature]</u>	(30) Relinquished By (Sign and PRINT)	<u>[Signature]</u>	(31) Receiver Comments	

(32) Seal Data Consistent with this Record?

Seal No. 1040 (33) Seal Intact Upon Receipt? ☒ Yes ☐ No
 Cast Seal No. 1040 (34) Seal Intact Upon Release? ☒ Yes ☐ No
 Sample No. 1040 (35) Seal Intact Upon Receipt? ☒ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Shipment Number 200W-08-IF (2) Sample Number 96-184 (3) Supervisor Daniel J. Davis (8) Cask Serial Number C 1038
 Tank U 103 (5) Riser 19 (6) Segment 3 (7) Core 143

(9) FIELD		(13) LABORATORY	
Location Survey Data:		A. Work Package Number	<u>415-96-0005810</u>
Water Top Dose Rate	<u>0.5 mld/hr</u>	B. Cask Seal Number	<u>11419</u>
Side Dose Rate	<u>25 mld/hr</u>	C. Sampler Serial Number	<u>95-1075</u>
Bottom Dose Rate	<u>8 mld/hr</u>	D. Date and Time Sampler Unsealed	<u>4-16-96 05:50</u>
Measurable Contamination	<u>0.20 (Alpha)</u>	E. Expected Liquid Content	<u>1090</u>
	<u>21K (Beta-Gamma)</u>	F. Expected Solid Content	<u>9090</u>
		G. Dose Rate Through Dilt String	<u>1.5R/hr</u>
		H. Expected Sample Length	<u>19'</u>

RCY* [Signature] (HPT) RCT* J. Valdez (HPT) (Signature)

1) INFORMATION (Includes statement of laboratory tests to be performed.)

WHC-SD-WM-DP-189, REV. 0

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(14) Destination		(15) Study Name (Sign and Print)		(16) Date/Time		(17) Sender Comments	
Point of Origin	<u>2225</u>	Received By (Sign and Print)	<u>[Signature]</u>	Date/Time	<u>4-17-96/035</u>		
Relinquished By (Sign and Print)	<u>[Signature]</u>	Received By (Sign and Print)	<u>J. L. HENSLEY</u>	Date/Time	<u>4-17-96/058</u>	(22) Receiver Comments	
Relinquished By (Sign and Print)	<u>[Signature]</u>	Received By (Sign and Print)	<u>[Signature]</u>	Date/Time	<u>4-17-96/105</u>	(25) Receiver Comments	
Relinquished By (Sign and Print)	<u>[Signature]</u>	Received By (Sign and Print)	<u>[Signature]</u>	Date/Time	<u>4-17-96/105</u>	(29) Receiver Comments	

(32) Seal Data Consistent with this Record?

Sample No. ☐ Yes ☐ No

Cask Seal No. ☒ Yes ☐ No

Shipment No. ☒ Yes ☐ No

(18) Seal Intact Upon Release? ☒ Yes ☐ No

(31) Seal Intact Upon Receipt? ☒ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-JF (2) Sample Number 6-185 (3) Supervisor M.C. JONES (8) Cask Serial Number G1042
 (4) Tank 6-102 (5) Riser 19 (6) Seg: int 4 (7) Core 143

Radiation Survey Data:

(9) FIELD		(33) LABORATORY		(110) Shipment Description	
Over Top Dose Rate	<u>5 mR/hr</u>		<u>10-15 mR/hr</u>	A. Work Package Number	<u>W5-96-0058</u>
Side Dose Rate	<u>15 mR/hr</u>		<u>15 m-14</u>	B. Cask Seal Number	<u>10498</u>
Bottom Dose Rate	<u>15 mR/hr</u>		<u>10 mR/hr</u>	C. Sampler Serial Number	<u>94-0705</u>
Smearable Contamination	<u>20 dpm/100cm²</u> (Alpha)		<u>500 dpm</u> (Alpha)	D. Date and Time Sampler Unsealed	<u>4-16-96 0950</u>
	<u>1 K dpm/100cm²</u> (Beta/Gamma)		<u>51000 dpm</u> (Beta/Gamma)	E. Expected Liquid Content	<u>10%</u>
RCT* (HPT)	<u>[Signature]</u>	RCT* (HPT)	<u>[Signature]</u>	F. Expected Solid Content	<u>90%</u>
				G. Dose Rate Through Drill String	<u>1.5 R/hr</u>
				H. Expected Sample Length	<u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

52

WHC-SD-WM-DP-189, REV. 0

21 Field Comments		(34) Laboratory Comments		(32) Seal Data Consistent with this Record?	
No X-Ray WAS DONE.				☒ Yes ☐ No Sample No. _____ Cask Seal No. _____	

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(15) Sender Name (Ink and PRINT)	(16) Date/Time	(17) Sender Comments
☒ Yes ☐ No	☒ Yes ☐ No	<u>Philip J. Rabin for M. Jones</u>	<u>4-23-96 0920</u>	
		(20) Received By (S gr and PRINT)	(21) Date/Time	(22) Receiver Comments
		<u>Philip J. Rabin</u>	<u>4-23-96</u>	
		(24) Received By (S gr and PRINT)	(25) Date/Time	(26) Receiver Comments
		<u>Michael J. Calkins</u>	<u>4-23-96</u>	
		(28) Received By (S gr and PRINT)	(29) Date/Time	(30) Receiver Comments
		<u>Michael J. Calkins</u>	<u>4-23-96</u>	

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 700W 06 JP (2) Sample Number 96-186 (3) Supervisor M.C. JONES (8) Cask Serial Number 2004

(4) Tank U-102 (5) Riser 19 (6) Segment 5 (7) Cor 143 (10) Shipment Description WS-95-0058

(11) FIELD

Radiation Survey Data:

Over Top Dose Rate 2.5 uR/hr

Side Dose Rate 1 uR/hr

Bottom Dose Rate 5 uR/hr

Smearable Contamination 230 dpm/100cm² (Alpha)

21K dpm/100cm² (Beta/Gamma)

RCF* [Signature] (HPT) RCT* [Signature] (HPT)

(12) LABORATORY

A. Work Package Number WS-95-0058

B. Cask Seal Number 10497

C. Sampler Serial Number 95-0685

D. Date and Time Sampler Unseated 4-16-96 1245

E. Expected Liquid Content 590

F. Expected Solid Content 9590

G. Dose Rate Through Drill String 300 MR/HR

H. Expected Sample Length 5"

(11) INFORMATION (Include statement of laboratory tests to be performed.)

53

(112) Field Comments

SAMPLE WAS ONLY PUSHED 5" TO
HIGH DOWN FORCE.

(134) Laboratory Comments

COPY

(13) Point of Origin U-102 (14) Destination 222-5

(15) Sender Name (Sign and PRINT) [Signature]

(16) Date/Time 4-23-96

(17) Sender Comments

(18) Seal Intact Upon Receipt? [Signature] (19) Seal Intact Upon Release? [Signature]

(20) Receiver By (Sign and PRINT) [Signature]

(21) Date/Time 9-1-96

(22) Receiver Comments

(23) Relinquished By (Sign and PRINT) [Signature]

(24) Date/Time 4-27-96

(25) Receiver Comments

(26) Receiver Comments

(27) Relinquished By (Sign and PRINT) [Signature]

(28) Date/Time 4-27-96

(29) Receiver Comments

(30) Receiver Comments

(31) Seal Data Consistent with this Record?

Cask Seal No. [Signature] ☒ Yes ☐ No

Shipment No. [Signature] ☒ Yes ☐ No

Sample No. [Signature] ☒ Yes ☐ No

WHC-SD-WM-DP-189, REV. 0

CHAIN-OF-CUSTODY RECORD FOR COFE SAMPLING

(1) Shipment Number 200W-08-TF (2) Sample Number 96-180A (3) Super: for Hartley (4) Tank 14-102 (5) Riser 19 (6) Seq: ant 5A (7) Core 143 (8) Cask Serial Number C1048

Radon Survey Data:

(9) FIELD

Over Top Dose Rate <0.5 mR/hr

Side Dose Rate 19 mR/hr

Bottom Dose Rate 10 mR/hr

Smearable Contamination <20 (Alpha)

11K (Beta-Gamma)

RCR (HPT) [Signature] RCT* (HPT) J. Valdez (Signature)

(10) LABORATORY

(11) Shipment Description

A. Work Package Number WLS-96-005806

B. Cask Seal Number 11436

C. Sampler Serial Number 95-3095

D. Date and Time Sampler Unsealed 4-16-96, 2150

E. Expected Liquid Content 109%

F. Expected Solid Content 90%

G. Dose Rate Through Drill String 1K/HR

H. Expected Sample Length 8 3/4"

WHC-SD-WM-DP-189, REV. 0

54

509 373 1432

(12) Field Comments

Moisture on bottom of sampler

(13) Laboratory Comments

(13) Point of Origin 4-102 (14) Destination 2225 (15) Index Name (Sign and PRINT) Helena J. HENSEL (16) Date/Time 4-17-96/0835 (17) Sender Comments

(19) Package Received By (Sign and PRINT) [Signature] (20) Received By (Sign and PRINT) [Signature] (21) Date/Time 4-17-96/0835 (22) Receiver Comments

(23) Package Received By (Sign and PRINT) [Signature] (24) Received By (Sign and PRINT) [Signature] (25) Date/Time 4-17-96/1105 (26) Receiver Comments

(27) Package Received By (Sign and PRINT) [Signature] (28) Received By (Sign and PRINT) [Signature] (29) Date/Time 4-17-96/1105 (30) Receiver Comments

(18) Seal Intact Upon Release? ☒ Yes ☐ No (31) Seal Intact Upon Receipt? ☒ Yes ☐ No (32) Seal Data Consistent with this Record? ☒ Yes ☐ No

Shipment No. ☒ Yes ☐ No

Cask Seal No. ☒ Yes ☐ No

Sample No. ☒ Yes ☐ No

DISTRIBUTION: White - Office of Sample Management Yellow - Recipient of Sample Pink - Processed

13:40

04/25/96

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Shipment Number <u>200W-08-TF</u>		(2) Sample Number <u>96-18603</u>		(3) Supervisor <u>Hartley</u>		(4) Cast Solid Number <u>C1016</u>																																									
Lab Tag <u>44-102</u>		(5) Name <u>19</u>		(6) Surname <u>SB</u>		(7) Core <u>143</u>																																									
(10) Laboratory				(10) Shipment Description																																											
(11) HELD				A. Work Package Number <u>WS-96-0005810</u>																																											
Radiation Survey Date <u>4.5</u>				B. Cast Seal Number <u>11435</u>																																											
Over Top Dose Rate <u>35</u>				C. Sampler Serial Number <u>45-3015</u>																																											
Side Dose Rate <u>20</u>				D. Date and Time Sampler Unsealed <u>4-22-96 0127</u>																																											
Bottom Dose Rate <u>20</u>				E. Expected Liquid Content <u>20%</u>																																											
Sealable Contamination <u>2000/1000</u>				F. Expected Solid Content <u>80%</u>																																											
RCT* <u>45000/1000</u>				G. Dose Rate Through Dull String <u>1.7 R/hr</u>																																											
RPT* <u>45000/1000</u>				H. Expected Sample Length <u>6.4"</u>																																											
(11) INFORMATION (include statements of laboratory tests to be performed.)																																															
55																																															
(12) Field Comments																																															
1 gallon lithium boron added, sample wet + brown material on outside of sample body																																															
(13) Laboratory Comments																																															
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002

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

(1) Shipment Number: 20010-08-TF (2) Sample Number: 96-187 (3) Supervisor: Daniel J. Paine (4) Task: 4-102 (5) Rider: 19 (6) Signature: [Signature] (7) Core: 143 (8) Core Serial Number: C-1023

Radiation Survey Data:		(10) Laboratory:		(11) Shipment Description:	
Over Top Dose Rate	<u>1 mSv/hr</u>	<u>Longford</u>		A. Work Package Number	<u>425-96-00058-0</u>
Side Dose Rate	<u>0.25 mSv/hr</u>	<u>25 mSv/hr</u>		B. Core Seal Number	<u>1561</u>
Bottom Dose Rate	<u>0.25 mSv/hr</u>	<u>10 mSv/hr</u>		C. Sampler Serial Number	<u>94-3405</u>
Screenable Contamination	<u>2.20 dpm/cm²</u>	<u>5.20 dpm/cm²</u>		D. Date and Time Sample Unloaded	<u>4-23-96 10:25</u>
	<u>1.1K dpm/cm²</u>	<u>5.1K dpm/cm²</u>		E. Expected Liquid Content	<u>10%</u>
	<u>1.1K dpm/cm²</u>	<u>5.1K dpm/cm²</u>		F. Expected Solid Content	<u>90%</u>
RCF: (HPT)	<u>[Signature]</u>	<u>[Signature]</u>		G. Dose Rate Through Drill String	<u>1.2 R/hr</u>
	<u>[Signature]</u>	<u>[Signature]</u>		H. Expected Sample Length	<u>9"</u>

(12) INFORMATION (Include statement of laboratory tests to be performed.)

56

(13) Field Comments		(14) Laboratory Comments	
Small amount of waste on bottom of sample.			
(131) Point of Origin	(112) Destination	(113) Site Use Name (Sign and PRINT)	(114) Date/Time
4-102	2225	James Wells James Sicks	5-8-96
(132) Requisitioned By (Sign and PRINT)	(115) Requisitioned By (Sign and PRINT)	(121) Date/Time	(122) Receiver Comments
James Wells James Sicks	James Wells James Sicks	5-8-96	
(123) Requisitioned By (Sign and PRINT)	(116) Requisitioned By (Sign and PRINT)	(125) Date/Time	(126) Receiver Comments
James Wells James Sicks	James Wells James Sicks	5-8-96 10:25	
(127) Requisitioned By (Sign and PRINT)	(117) Requisitioned By (Sign and PRINT)	(128) Date/Time	(129) Receiver Comments
(118) Seal Intact Upon Receipt?		(132) Seal Date Consistent with this Record?	
Yes ☒ No ☐	Yes ☒ No ☐	Seal No. ☐ Yes ☐ No ☐	

DISTRIBUTION: White - Office of Sample Management Yellow - Requisition of Sample Pink - Core Sampling, 36-15 Gold - Tank Farm Operations, 54-43 BC 6000-509 (02/94)

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number San-08-77

(4) Task U-102

(5) Riser 9

(2) Sample Number 96-189

(3) Supervisor MC Jones

(6) Segment 1

(7) Core 144

(8) Cask Serial Number C 2009

Radiation Survey Data:

Over Top Dose Rate 2.5

Side Dose Rate 30

Bottom Dose Rate 7

Smearable Contamination <20

(9) FIELD 2.5

(33) LABORATORY LSH

A. Work Package Number WLS-96-00059

B. Cask Seal Number 10435

C. Sampler Serial Number 94-3425

D. Date and Time Sampler Unseated 4-26-96/18:15

E. Expected Liquid Content 30%

F. Expected Solid Content 30%

G. Dose Rate Through Drill String 1.5 R/HR

H. Expected Sample Length 17"

(11) INFORMATION (include statement of laboratory tests to be performed.)

50

WHC-SD-WM-DP-189, REV. 0

(12) Field Comments
NO X-RAY

(34) Laboratory Comments

100%

(13) Point of Origin U-102

(14) Destination 222-S

(15) Sender Name (Sign and PRINT) James Suckels

(16) Date/Time 4/26/96 08:58

(17) Sender Comments

(18) Seal Intact Upon Release? ☒ Yes ☐ No

(19) Seal Intact Upon Receipt? ☒ Yes ☐ No

(20) Received By (Sign and PRINT) James Suckels

(21) Date/Time 4/26/96 08:58

(22) Receiver Comments

(23) Date/Time 4/26/96 08:58

(24) Received By (Sign and PRINT) James Suckels

(25) Date/Time 4/26/96 08:58

(26) Receiver Comments

(27) Date/Time 4/26/96 08:58

(28) Received By (Sign and PRINT) James Suckels

(29) Date/Time 4/26/96 08:58

(30) Receiver Comments

(31) Seal Intact Upon Receipt? ☒ Yes ☐ No

(32) Seal Date Consistent with this Record? ☒ Yes ☐ No

(33) Shipment No. ☒ Yes ☐ No

(34) Sample No. ☒ Yes ☐ No

DISTRIBUTION: White - Office of Sample Management

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 88W-08-TF (2) Sample Number 96-19D (3) Supervisor ALC Jones
 (4) Tank U-102 (5) Filter 9 (6) Segment 2 (7) Core 144 (8) Cask Serial Number 51053

Radiation Survey Data:		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate	Side Dose Rate	Bottom Dose Rate	Removable Contamination	A. Work Package Number	B. Cask Seal Number
4.5	18	12	2.20 (Alpha)	45-96-00059	104736
			2.000 (Beta)	94-3385	
			4.1000 (Beta Gamma)	4-26-96/1920	
				50%	
				50%	
				1 R/H/R	
				19	

(11) INFORMATION Includes assurance of laboratory tests to be performed.

59

(12) Field Comments		(13) Laboratory Comments	
NO X-RAY		COPY	
(131) Point of Origin	(132) Destination	(133) Sender Name	(134) Receiver Name
U-102	2235-S	James S. Sidel	James S. Sidel
(135) Inspected By (Sign and PRINT)	(136) Inspected By (Sign and PRINT)	(137) Inspected By (Sign and PRINT)	(138) Inspected By (Sign and PRINT)
James S. Sidel	James S. Sidel	James S. Sidel	James S. Sidel
(139) Inspected By (Sign and PRINT)	(140) Inspected By (Sign and PRINT)	(141) Inspected By (Sign and PRINT)	(142) Inspected By (Sign and PRINT)
James S. Sidel	James S. Sidel	James S. Sidel	James S. Sidel
(143) Inspected By (Sign and PRINT)	(144) Inspected By (Sign and PRINT)	(145) Inspected By (Sign and PRINT)	(146) Inspected By (Sign and PRINT)
James S. Sidel	James S. Sidel	James S. Sidel	James S. Sidel
(147) Inspected By (Sign and PRINT)	(148) Inspected By (Sign and PRINT)	(149) Inspected By (Sign and PRINT)	(150) Inspected By (Sign and PRINT)
James S. Sidel	James S. Sidel	James S. Sidel	James S. Sidel
(151) Seal Intact Upon Release?	(152) Seal Intact Upon Receipt?	(153) Seal Dec Consistent with this Record?	(154) Seal Dec Consistent with this Record?
Yes ☒ No ☐	Yes ☒ No ☐	Yes ☒ No ☐	Yes ☒ No ☐
(155) Sample No.	(156) Sample No.	(157) Sample No.	(158) Sample No.

CHAIN OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipman Number 200W-08-7F

(4) Tack 11-102 (5) Riser 9 (6) Segment 3 (7) Core 144 (8) Cask Serial Number C-1045

(9) Supervisor Mr. Jones

(10) Shipment Description

(11) Field Comments

(12) Laboratory Comments

(13) Date/Time

(14) Receiver Comments

(15) Receiver Comments

(16) Receiver Comments

(17) Receiver Comments

(18) Receiver Comments

(19) Receiver Comments

(20) Receiver Comments

(21) Receiver Comments

(22) Receiver Comments

(23) Receiver Comments

(24) Receiver Comments

(25) Receiver Comments

(26) Receiver Comments

(27) Receiver Comments

(28) Receiver Comments

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(35) Receiver Comments

(36) Receiver Comments

(37) Receiver Comments

(38) Receiver Comments

(39) Receiver Comments

(40) Receiver Comments

(41) Receiver Comments

(42) Receiver Comments

(43) Receiver Comments

(44) Receiver Comments

(45) Receiver Comments

(46) Receiver Comments

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

1) Shipment Number 200W-08-TF (2) Sample Number 96-192 (3) Supervisor M.C. Jones (8) Cask Serial Number 5056

1) Tank 11-102 (5) Riser 9 (6) Segment 4 (7) Core 144

110) Shipment Description

111) FIELD

Over Top Dose Rate 1 mrad/hr (133) LABORATORY

Side Dose Rate 30 mrad/hr

Bottom Dose Rate 15 mrad/hr

Smearable Contamination < 20 dpm/100cm² (Alpha)

< 1 Kdpm/100cm² (Alpha)

R100cm (Beta/Gamma)

RCT* (HPT) R100cm (Signature)

RCT* (HPT) R100cm (Signature)

112) A. Work Package Number W5-96-00059

B. Cask Seal Number 10500

C. Sampler Serial Number 94-336.5

D. Date and Time Sampler Unseared 4-29-96 0233

E. Expected Liquid Content 30%

F. Expected Solid Content 70%

G. Dose Rate Through Drill String 1.5 R/hr

H. Expected Sample Length 19"

1) INFORMATION (Include statement of laboratory tests to be performed.)

WHC-SD-WM-DP-189, REV. 0

1) Field Comments NO X-RAY

(34) Laboratory Comments

1) Point of Origin 11-102 (14) Destination 222-S

Relinquished By (Sign and PRINT) James Sickels (15) Sender Name (Sign and PRINT) James Sickels (16) Date/Time 5-9-96 (17) Sender Comments

Relinquished By (Sign and PRINT) David J Keane (20) Received By (Sign and PRINT) David J Keane (21) Date/Time 5-8-96 (22) Receiver Comments

Relinquished By (Sign and PRINT) David J Keane (24) Received By (Sign and PRINT) David J Keane (25) Date/Time 5-8-96 104 (26) Receiver Comments

Relinquished By (Sign and PRINT) David J Keane (28) Received By (Sign and PRINT) David J Keane (29) Date/Time 5-8-96 104 (30) Receiver Comments

18) Seal Intact Upon Release? ☐ Yes ☐ No (31) Seal Intact Upon Receipt? ☐ Yes ☐ No

Shipment No. ☐ Yes ☐ No (32) Seal Data Consistent with this Record? ☐ Yes ☐ No

Cask Seal No. ☐ Yes ☐ No Sample No. ☐ Yes ☐ No

DISTRIBUTION: White - Office of Sample Management Yellow - Recipient of Sample Pink - Core Sampling Case

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

Shipment Number 2000-08-17 (2) Sample Number 96-193 (3) Supervisor Daniel J. Lian (8) Cask Serial Number 58
 Tank U-102 (5) Riser 9 (16) Segment 5 (7) Core 144

ION SURVEY DATA:		(10) SHIPMENT DESCRIPTION	
Top Dose Rate	(19) FIELD <u>1 mR/hr</u>	A. Work Package Number	<u>45-76-00059/0</u>
Dose Rate	<u>25 mR/hr</u>	B. Cask Seal Number	<u>1540</u>
Contamination	<u>20 mR/hr</u>	C. Sampler Serial Number	<u>95-1605</u>
	<u>< 20 dpm/100cm²</u>	D. Date and Time Sampler Unsealed	<u>4/29/96 2205</u>
	<u>< 1 Kcpm/100cm²</u>	E. Expected Liquid Content	<u>10%</u>
	<u>1 Kcpm/100cm²</u>	F. Expected Solid Content	<u>90%</u>
	<u>1 Kcpm/100cm²</u>	G. Dose Rate Through Drill String	<u>1.6 R/hr</u>
	<u>1 Kcpm/100cm²</u>	H. Expected Sample Length	<u>194</u>

INFORMATION (include statement of laboratory tests to be performed.)

62

WHC-SD-WM-DP-189, REV. 0

FIELD COMMENTS		(34) LABORATORY COMMENTS	
1.5 sample broke apart between the drum and the sampler body. A retrieval tool which is a quadrat with two spring loaded pins were used to retrieve the sample. It is attached to the sampler body.			
(11) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments	
James Sickle	5-8-96		
(12) Receiver By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments	
David J. Kearney	5-8-96		
(13) Receiver By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments	
David J. Kearney	5-8-96		
(14) Destination	(29) Date/Time	(30) Receiver Comments	
2225			
(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments	
James Sickle	5-8-96		
(18) Receiver By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments	
David J. Kearney	5-8-96		
(19) Receiver By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments	
David J. Kearney	5-8-96		
(20) Destination	(29) Date/Time	(30) Receiver Comments	
2225			

8) Seal Intact Upon Release?		(31) Seal Intact Upon Receipt?		(32) Seal Data Consistent with this Record?	
Yes ☐	No ☐	Yes ☒	No ☐	Cask Seal No. ☐ Yes ☐ No ☐	Sample No. ☐ Yes ☐ No ☐

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Shipment Number 200W-08-TF (12) Sample Number 96-194 (13) Supervisor M.C. Jones (8) Cask Serial Number C1032
 Tank U-102 (5) Riser 9 (6) Segment 6 (7) Core 144

Action Survey Data:		(33) LABORATORY		(110) Shipment Description	
Top Dose Rate	<u>5 mR/hr</u>	(9) FIELD	<u>0.5 mR/hr</u>	A. Work Package Number	<u>WS-96-00059</u>
Dose Rate	<u>25 mR/hr</u>		<u>2.5 mR/hr</u>	B. Cask Seal Number	<u>10459</u>
Bottom Dose Rate	<u>10 mR/hr</u>		<u>1.0 mR/hr</u>	C. Sampler Serial Number	<u>95-167-S</u>
Measurable Contamination	<u>220 dpm/100cm²</u>	(Alpha)	<u>120 dpm</u>	D. Date and Time Samples Unsealed	<u>4-30-96 0310</u>
	<u>21Kdpm/100cm²</u>	(Beta-Gamma)	<u>21Kdpm</u>	E. Expected Liquid Content	<u>30%</u>
	<u>21Kdpm</u>	(Signature)	<u>(Beta-Gamma)</u>	F. Expected Solid Content	<u>20%</u>
	<u>21Kdpm</u>	(Signature)	<u>(Alpha)</u>	G. Dose Rate Through Drill String	<u>1.7 R/hr</u>
	<u>21Kdpm</u>	(Signature)	<u>(Beta-Gamma)</u>	H. Expected Sample Length	<u>13"</u>

INFORMATION (Include statement of laboratory tests to be performed.)

WHC-SD-WM-DP-189, REV. 0

Field Comments		(134) Laboratory Comments	
NO X-RAY SAMPLE WAS ONLY PUSHED 13" TO HIGH DRAIN FORCE.			
(114) Destination	<u>22A-S</u>	(116) Date/Time	<u>5-8-96</u>
(115) Sender Name (Sign and PRINT)	<u>James Sickels</u>	(117) Sender Comments	
(120) Received By (Sign and PRINT)	<u>David S. Keane</u>	(121) Date/Time	<u>5-8-96</u>
(124) Received By (Sign and PRINT)	<u>David S. Keane</u>	(122) Receiver Comments	
(128) Received By (Sign and PRINT)	<u>David S. Keane</u>	(125) Date/Time	<u>5-8-96</u>
(129) Received By (Sign and PRINT)	<u>David S. Keane</u>	(126) Receiver Comments	
(131) Seal Intact Upon Receipt?	☒ Yes ☐ No	(132) Seal Data Consistent with this Record?	☒ Yes ☐ No
(133) Seal Intact Upon Release?	☒ Yes ☐ No	(134) Seal Data Consistent with this Record?	☒ Yes ☐ No

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Shipment Number 200W-08-17 (2) Sample Number 96-194A (3) Supervisor Daniel J. Brown

(4) Tank 6-102 (5) Riser 3-6-80 (6) Segment 6A (7) Core 144 (8) Cask Serial Number SN #71

Initiation Survey Date: (9) FIELD (10) SHIPMENT DESCRIPTION

(33) LABORATORY		(10) SHIPMENT DESCRIPTION	
Top Dose Rate	Bottom Dose Rate	A. Work Package Number	B. Cask Seal Number
<u>5.5 m/hr</u>	<u>8 m/hr</u>	<u>11433</u>	<u>95-3085</u>
<u>6 m/hr</u>	<u>120 DPM</u>	<u>4-30-96</u>	<u>1801</u>
<u>1 m/hr</u>	<u>100 DPM</u>	<u>100%</u>	<u>400 m/hr</u>
<u>1 m/hr</u>	<u>100 DPM</u>	<u>Pushed 1"</u>	

Smearable Contamination (Alpha) 100%

Bottom Dose Rate (Alpha) 100%

Smearable Contamination (Beta-Gamma) 100%

Bottom Dose Rate (Beta-Gamma) 100%

Smearable Contamination (Signature) [Signature]

Bottom Dose Rate (Signature) [Signature]

Smearable Contamination (HPT) [Signature]

Bottom Dose Rate (HPT) [Signature]

Smearable Contamination (HPT) [Signature]

Bottom Dose Rate (HPT) [Signature]

INFORMATION (Include statement of laboratory tests to be performed.)

64

WHC-SD-WM-DP-189, REV. 0

Field Comments Lithium Bromide Added
Sample is 1" long

(34) Laboratory Comments

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
<u>200W-08-17</u>	<u>2225</u>	<u>[Signature]</u>	<u>5/31/96</u>	
<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>
<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>
<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>
<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>	<u>Relinquished By (Sign and PRINT)</u>

(31) Seal Intact Upon Receipt? ☒ Yes ☐ No

(32) Seal Data Consistent with this Record? ☒ Yes ☐ No

Shipment No. ☒ Yes ☐ No

Cask Seal No. ☒ Yes ☐ No

Sample No. ☒ Yes ☐ No

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Shipment Number <u>N/A</u>		(2) Sample Number <u>11-102</u>		(3) Supervisor <u>W.C. Jones</u>	
Tank <u>11-102</u>		(5) Riser <u>9</u>		(7) Core <u>144</u>	
Segment <u>Blank</u>		(6) Segment <u>Blank</u>		(8) Cask Serial Number <u>N/A</u>	

(9) FIELD		(10) SHIPMENT DESCRIPTION	
Over Top Dose Rate	<u>1.5</u>	A. Work Package Number	<u>WS-96-00059</u>
Side Dose Rate	<u>1.5</u>	B. Cask Seal Number	<u>10480</u>
Bottom Dose Rate	<u>1.5</u>	C. Sampler Serial Number	<u>N/A</u>
Smearable Contamination	<u>1.20</u>	D. Date and Time Sampler Unseated	<u>4-30-96 0500</u>
	<u>1020</u>	E. Expected Liquid Content	<u>100%</u>
	(Beta-Gamma)	F. Expected Solid Content	<u>0%</u>
RCT* (HPT)	<u>Blank</u>	G. Dose Rate Through Drill String	<u>2.5 mR/hr</u>
RCT* (HPT)	<u>Blank</u>	H. Expected Sample Length	<u>100 m</u>

(11) LABORATORY	
Signature	<u>[Signature]</u>
(Alpha)	<u>1.20</u>
(Beta-Gamma)	<u>1020</u>
(Signature)	<u>[Signature]</u>

1) INFORMATION (Include statement of laboratory tests to be performed.)

69

WHC-SD-WM-DP-189, REV. 0

(12) Field Comments		(13) Laboratory Comments	
Blank for Tank 11-102			

(13) Point of Origin <u>11-102</u>	(14) Destination <u>222-S</u>	(15) Sender Name (Sign and Print) <u>James Sickels</u>	(16) Date/Time <u>4/30/96</u>	(17) Sender Comments
Relinquished By (Sign and Print) <u>James Sickels</u>		Relinquished By (Sign and Print) <u>James Sickels</u>		
Relinquished By (Sign and Print) <u>James Sickels</u>		Relinquished By (Sign and Print) <u>James Sickels</u>		
Relinquished By (Sign and Print) <u>James Sickels</u>		Relinquished By (Sign and Print) <u>James Sickels</u>		

(18) Seal Intact Upon Release?	(19) Seal Intact Upon Receipt?	(20) Sample Management	(21) Recipient of Sample	(22) Date Consistent with this Record?
☒ Yes ☐ No	☒ Yes ☐ No	White - Office of Sample Management	Yellow - Recipient of Sample	Black - Core Sampling, S&B

(23) Sender Name (Sign and Print) <u>James Sickels</u>	(24) Date/Time <u>4-30-96</u>	(25) Sender Comments
Relinquished By (Sign and Print) <u>James Sickels</u>		
Relinquished By (Sign and Print) <u>James Sickels</u>		
Relinquished By (Sign and Print) <u>James Sickels</u>		

(26) Sender Name (Sign and Print) <u>James Sickels</u>	(27) Date/Time <u>4-30-96</u>	(28) Sender Comments
Relinquished By (Sign and Print) <u>James Sickels</u>		
Relinquished By (Sign and Print) <u>James Sickels</u>		
Relinquished By (Sign and Print) <u>James Sickels</u>		

(29) Sender Name (Sign and Print) <u>James Sickels</u>	(30) Date/Time <u>4-30-96</u>	(31) Sender Comments
Relinquished By (Sign and Print) <u>James Sickels</u>		
Relinquished By (Sign and Print) <u>James Sickels</u>		
Relinquished By (Sign and Print) <u>James Sickels</u>		

(32) Sender Name (Sign and Print) <u>James Sickels</u>	(33) Date/Time <u>4-30-96</u>	(34) Sender Comments
Relinquished By (Sign and Print) <u>James Sickels</u>		
Relinquished By (Sign and Print) <u>James Sickels</u>		
Relinquished By (Sign and Print) <u>James Sickels</u>		

Sample No. ☒ Yes ☐ No

Cask Seal No. ☒ Yes ☐ No

Shipment No. ☒ Yes ☐ No

White - Office of Sample Management

Yellow - Recipient of Sample

Black - Core Sampling, S&B

Confidential - Tank Farm Operations S&B

WHC-SD-WM-DP-189, REV. 0

INORGANIC ANALYSES

WHC-SD-WM-DP-189, REV. 0

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LABCORE Data Entry Template for Worklist#

9257

Analyst: Rom Instrument: DSC0 1 Book # 12 NFB

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

Worklist Comment: U-102 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	31.7*	N/A	Joules/g
96000536	U-102	2 SAMPLE	S96T002323 0		DSC-01	LIQUID	N/A	121.9		Joules/g
96000536	U-102	3 DUP	S96T002323 0		DSC-01	LIQUID	121.9	124.1	N/A	Joules/g

Final page for worklist # 9257

Rom
Analyst Signature Date 5/30/96

Frank Coulins
Analyst Signature Date 6-1-96

Validated by H Anastro 6/2/96

Data Entry Comments:

Sample results 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 ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 70 TO 72.

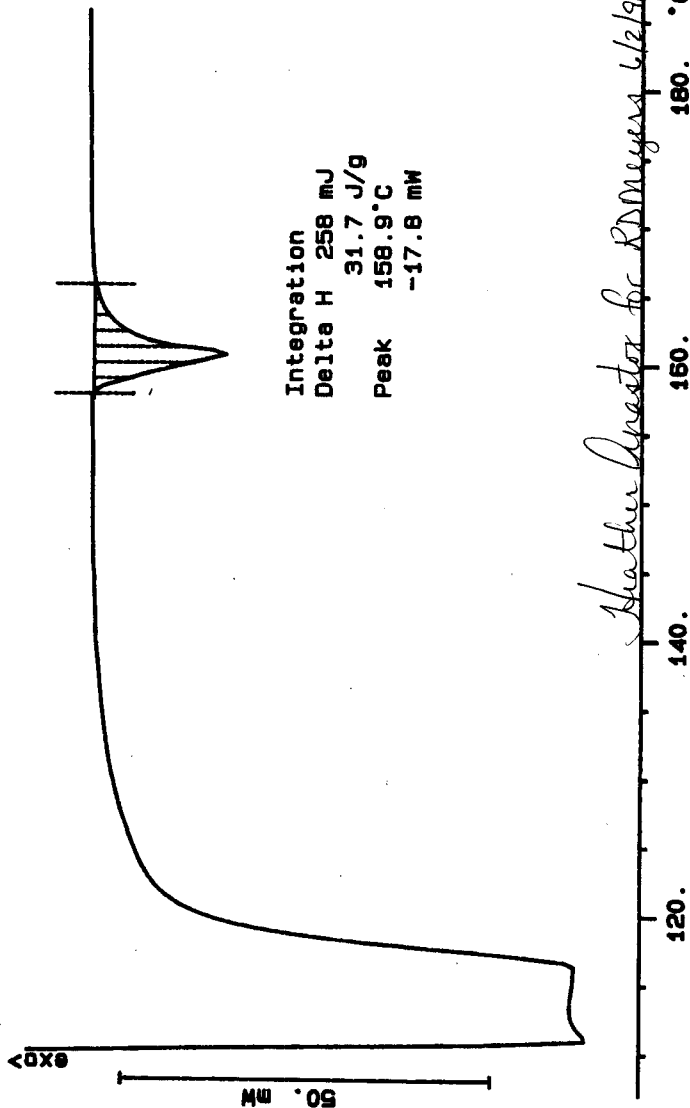
DSC STD 12N14-B N2

8.148 mg

Rate: 10.0 °C/min

File: 00012.001 DSC METTLER 28-May-86

Ident: 0.0 222-8 Laboratory

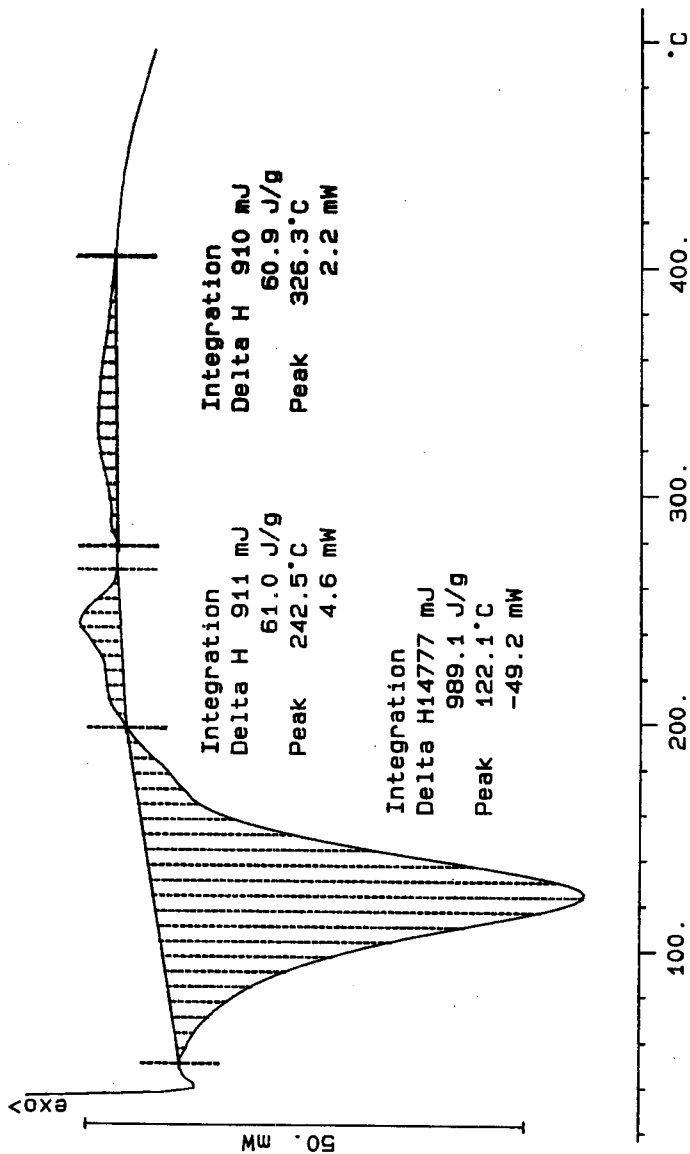


S96T002323 N2

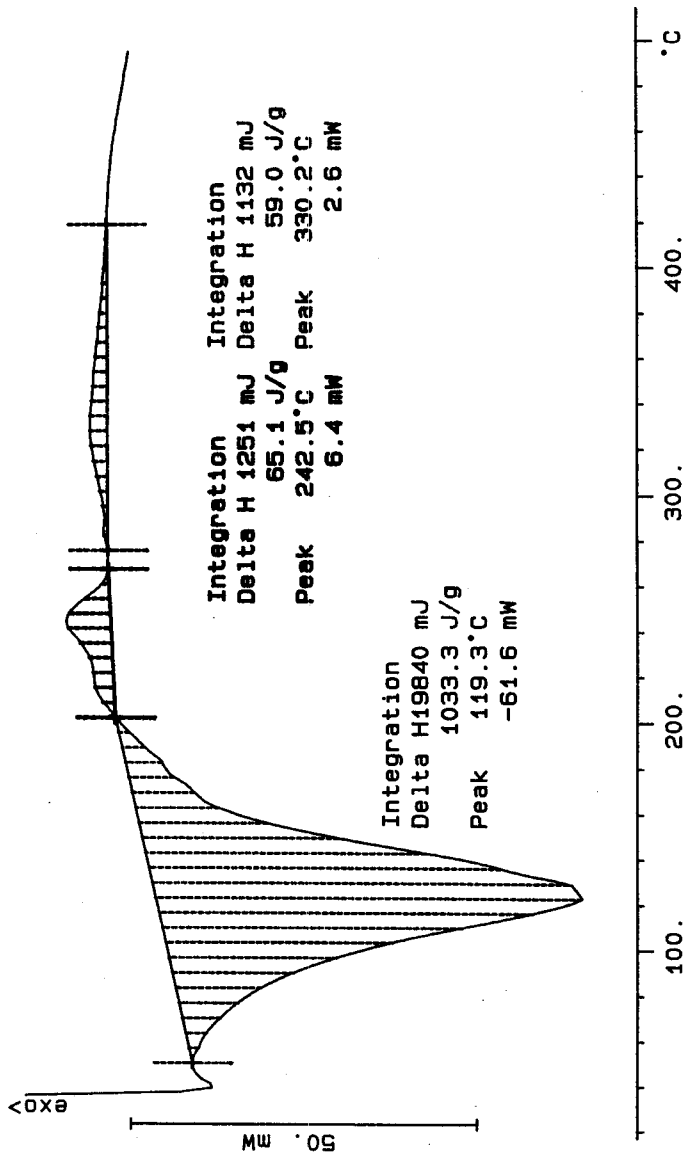
14.940 mg

File: 00018.001 DSC METTLER 28-May-96
 Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min



S96T002323 DUP N2
 19.200 mg
 Rate: 10.0 °C/min
 File: 00020.001 DSC METTLER 28-May-96
 Ident: 0.0 222-S Laboratory



LABCORE Data Entry Template for Worklist#

9258

Analyst: RDM Instrument: DSC0 3 Book # 12N14B

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

Worklist Comment: U-102 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-03	SOLID	<u>28.45</u>	<u>27.70</u>	<u>*</u>	Joules/g
96000536	U-102	2 SAMPLE	S96T002326	0	DSC-03	SOLID	<u>N/A</u>	<u>69.8</u>		Joules/g
96000536	U-102	3 DUP	S96T002326	0	DSC-03	SOLID	<u>69.8</u>	<u>66.6</u>	<u>N/A</u>	Joules/g
96000536	U-102	4 SAMPLE	S96T002329	0	DSC-03	SOLID	<u>N/A</u>	<u>53.1</u>		Joules/g
96000536	U-102	5 DUP	S96T002329	0	DSC-03	SOLID	<u>53.1</u>	<u>57.7</u>	<u>N/A</u>	Joules/g

Final page for worklist #

9258

See attached for signatures
Analyst Signature 6/13/96

RJ
Analyst Signature 6-17-96

Validated by H. Anastro 6-19-96

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.

LABCORE Data Entry Template for Worklist#

9258

Analyst: RPM Instrument: DSC0 _____ Book # 12N4BMethod: LA-514-113 Rev/Mod C-1

Worklist Comment: U-102 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
96000536	U-102	2 SAMPLE	S96T002326	0	DSC-01	SOLID	N/A			Joules/g
96000536	U-102	3 DUP	S96T002326	0	DSC-01	SOLID			N/A	Joules/g
96000536	U-102	4 SAMPLE	S96T002329	0	DSC-01	SOLID	N/A			Joules/g
96000536	U-102	5 DUP	S96T002329	0	DSC-01	SOLID			N/A	Joules/g

Final page for worklist #

9258

Analyst Signature RPM Date 5/24/96

Analyst Signature _____ Date _____

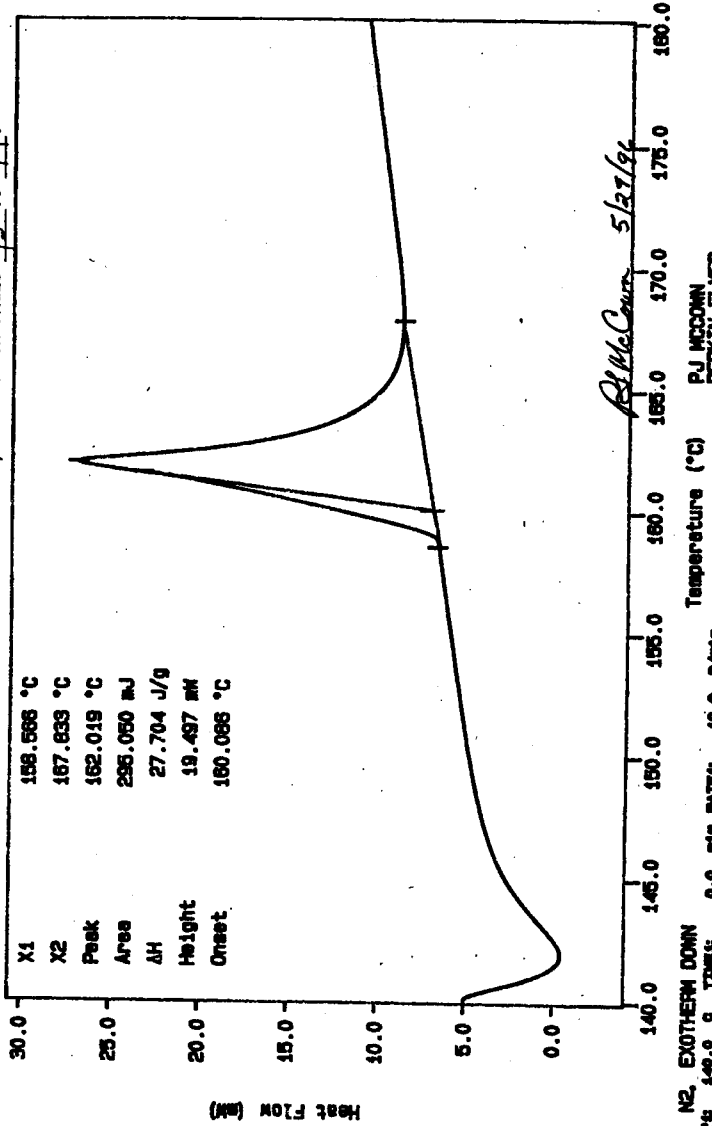
DSC-03 instrument
was used.
6/13/96Brandina
Valenzuela

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: IND052901 Wed May 29 06:30:17 1996
 Sample Weight: 10.680 mg
 12N14-B INDIUM AT 10C/MIN

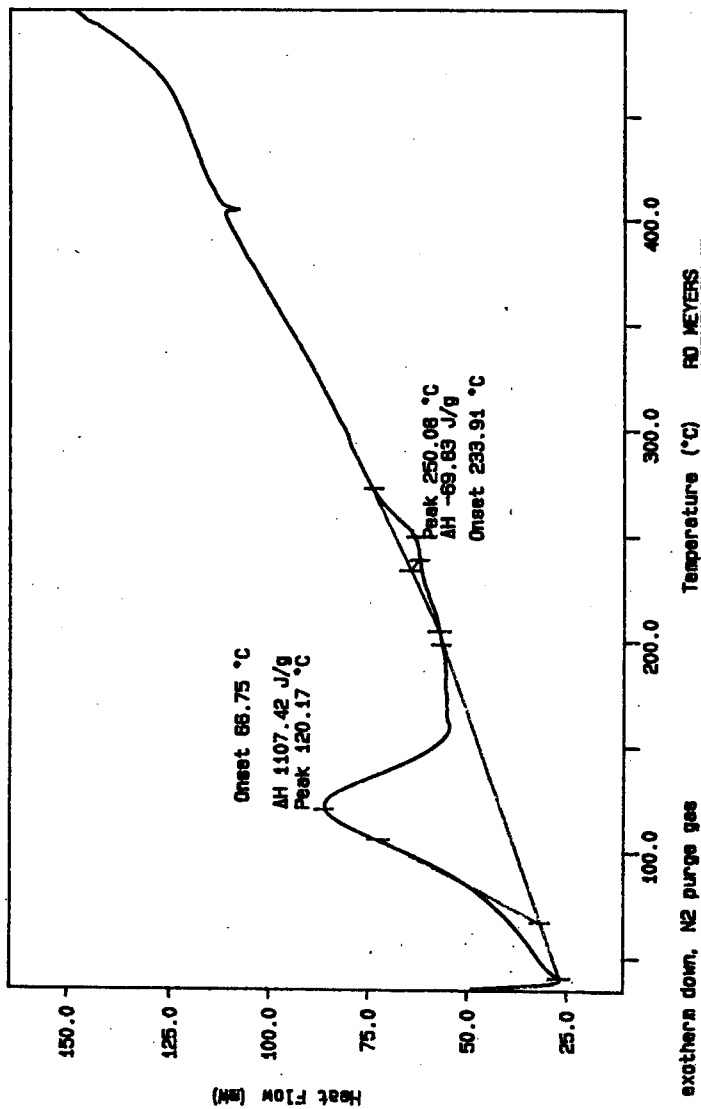
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 15 TO 19.



PJ McCann 5/27/96
 PJ MCCANN
 PERKIN-ELMER
 7 Series Thermal Analysis System

N2, EXOTHERM DOWN
 TRACE 100.8 g THERM 0.0 min RATE 10.0 °C/min

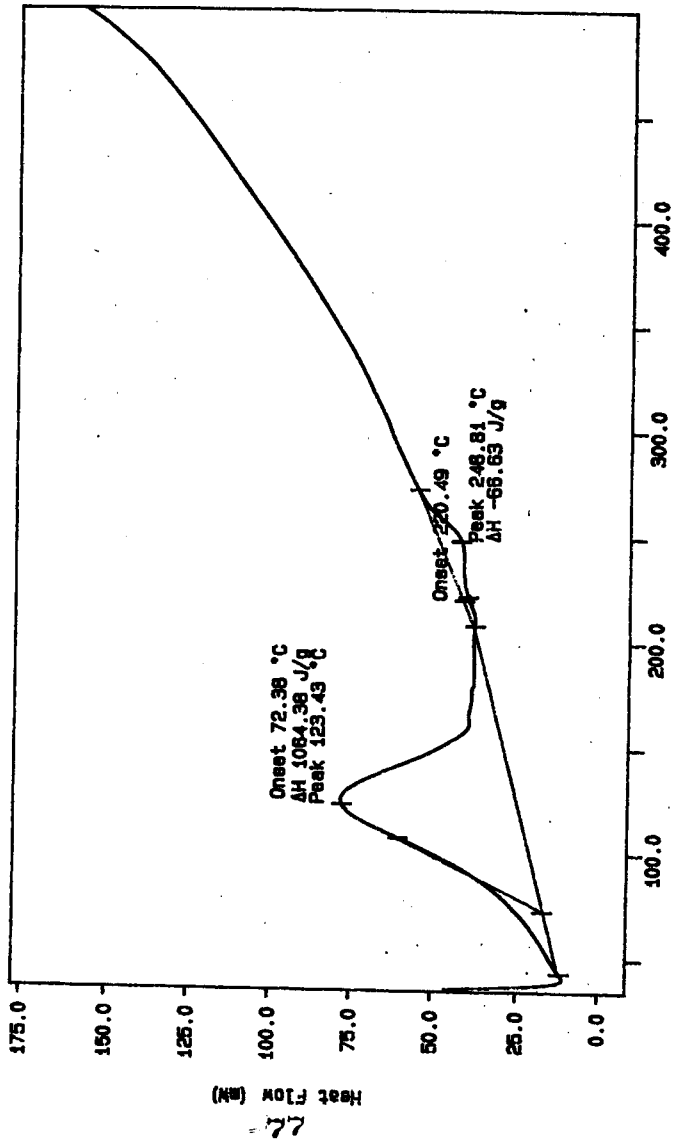
Curve 1: DSC
 File Info: SAM052805 Wed May 29 18:58:48 1996
 Sample Weight: 13.200 mg
 S96T002326



ED MEYERS
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Jun 13 14:01:14 1996

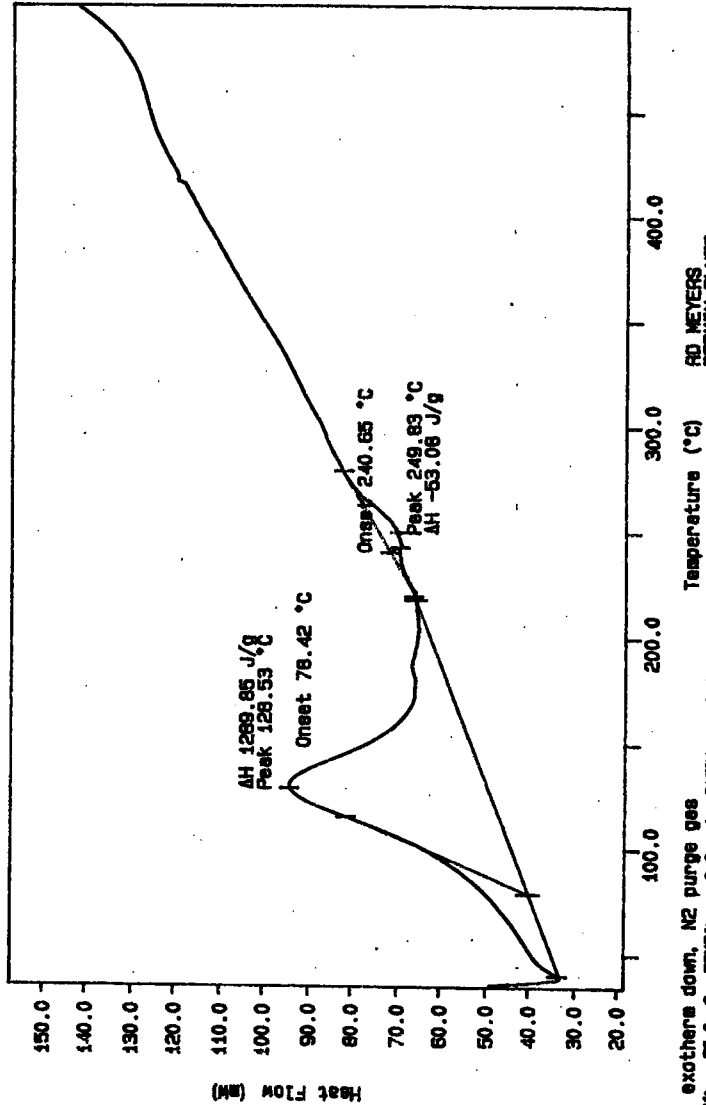
exotherm down, N2 purge gas
 THERM 8 THERM 0.0 min RATE: 10.0 °C/min

Curve 1: DSC
 File Info: SAM052906 Wed May 29 20:30:16 1996
 Sample Weight: 17.370 mg
 S96T0023280UP



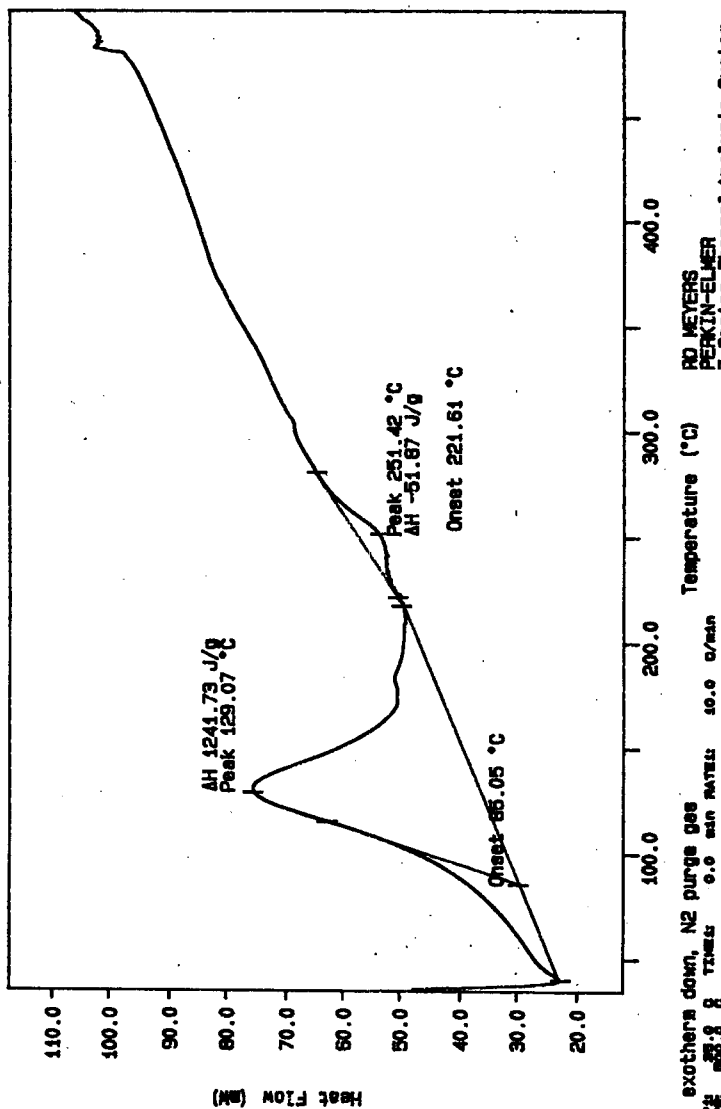
exotherms down, N2 purge gas
 TMS 55.8 8 TIMES 0.0 MIN PAGES 50.0 C/min
 RD MEYERS
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Jun 13 14:11:17 1996

Curve 1: DSC
 File Infor: SAM052807 Wed May 29 22:31:28 1996
 Sample Weight: 12.840 mg
 S96T002329



exotherm down, N2 purge gas
 TMS 8 g TIME 0.0 min RATE 10.0 °C/min
 AD MEYERS
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Jun 13 14:36:52 1996

Curve 1: DSC
 File Info: SAM053001 Thu May 30 01:44:23 1996
 Sample Weight: 11.250 mg
 S96T23290UP



RD METERS
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Jun 13 14:16:36 1996

exotherm down, N2 purge gas
 TIME 8.00 min RATE 10.0 °C/min

LABCORE Data Entry Template for Worklist#

9259

Analyst: RAM Instrument: DSC0 1 Book # 12N14B

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

Worklist Comment: U-102 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>31.8</u>	<u>N/A</u>	Joules/g
96000536	U-102	2 SAMPLE	S96T002332 0		DSC-01	SOLID	<u>N/A</u>	<u>236.3</u>		Joules/g
96000536	U-102	3 DUP	S96T002332 0		DSC-01	SOLID	<u>236.3</u>	<u>288.9</u>	<u>N/A</u>	Joules/g
96000536	U-102	4 SAMPLE	S96T002335 0		DSC-01	SOLID	<u>N/A</u>	<u>307.3</u>		Joules/g
96000536	U-102	5 DUP	S96T002335 0		DSC-01	SOLID	<u>307.3</u>	<u>313.8</u>	<u>N/A</u>	Joules/g

Final page for worklist # 9259

RAM 5/30/96
Analyst Signature Date

RAM 6-5-96
Analyst Signature Date

Validated by
JHneates 6-6-96

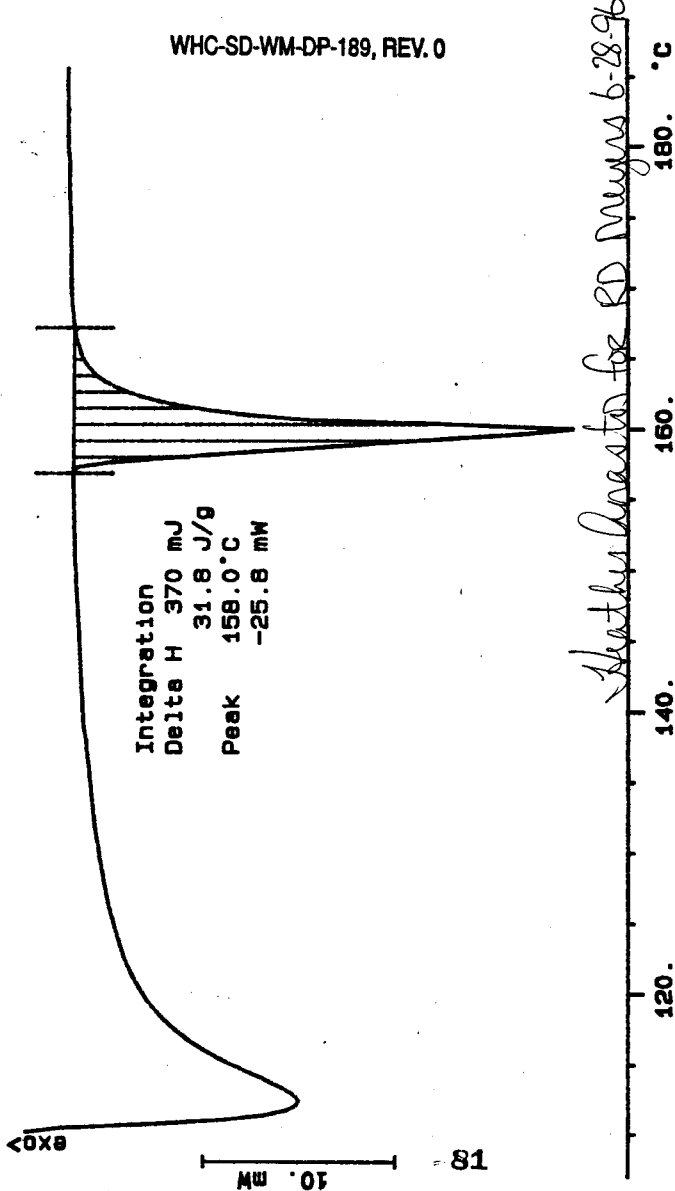
S96T002332 results are the sum of 3 exotherms. The exotherm at approximately 450°C is probably due to a decomposition of a compound which was relatively pure.

Data Entry Comments: S96T002335 results are the sum of 3 exotherms. The exotherm at approximately 450°C is probably due to a decomposition of a relatively pure compound.

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 81 TO 85.

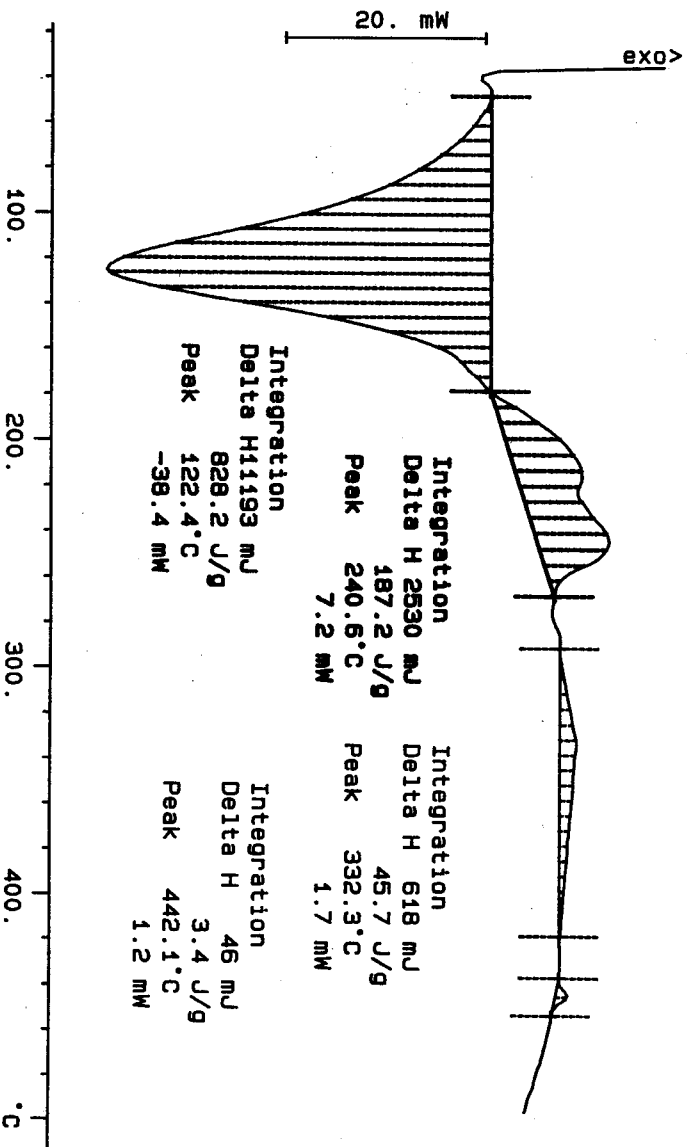
DSC STD 12N14-B N2
11.620 mg
Rate: 10.0 °C/min
File: 00026.001
Ident: 0.0
DSC METTLER
222-B Laboratory
29-May-96



S96T002332 N2
13.515 mg

Rate: 10.0 °C/min

File: 00032.001 DSC METTLER 30-May-96
Ident: 0.0 222-S Laboratory

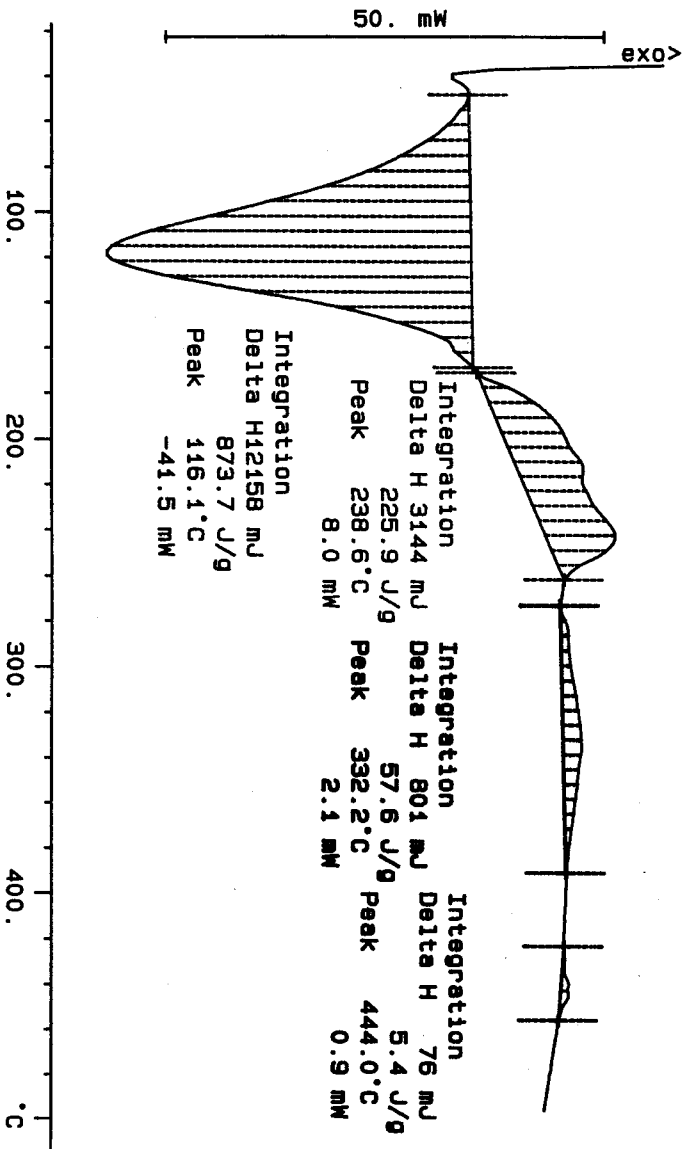


S96T002332 DUP N2
13.915 mg

Rate: 10.0 °C/min

File: 00034.001
Ident: 0.0

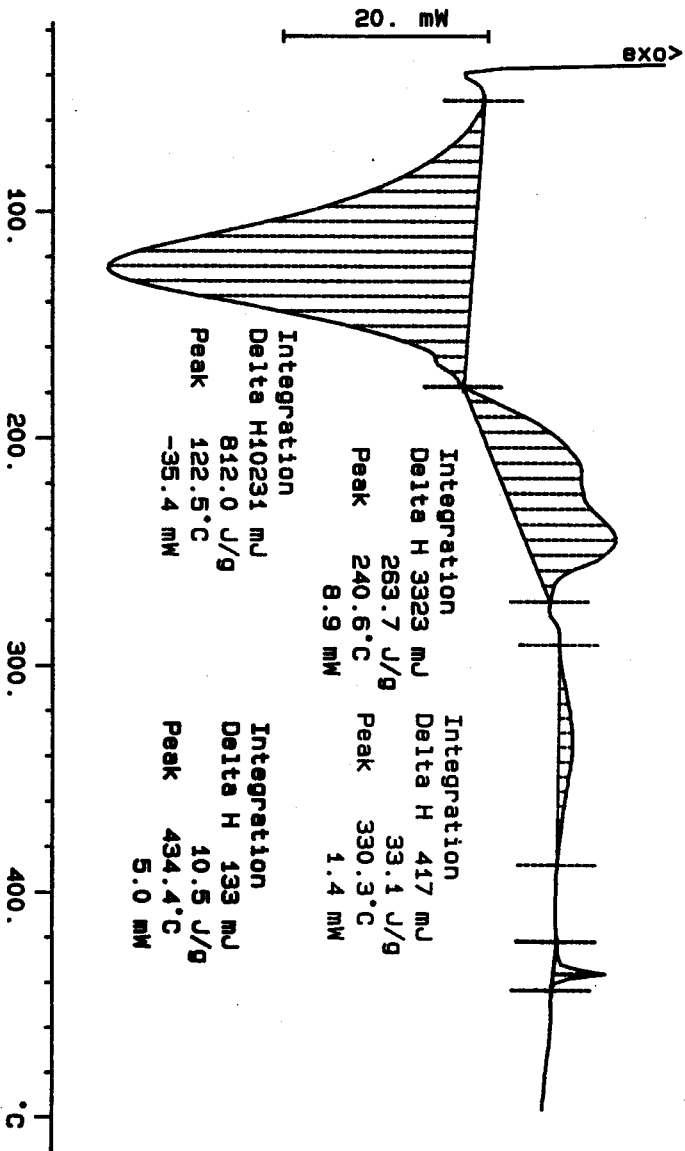
DSC METTLER 30-May-96
222-S Laboratory

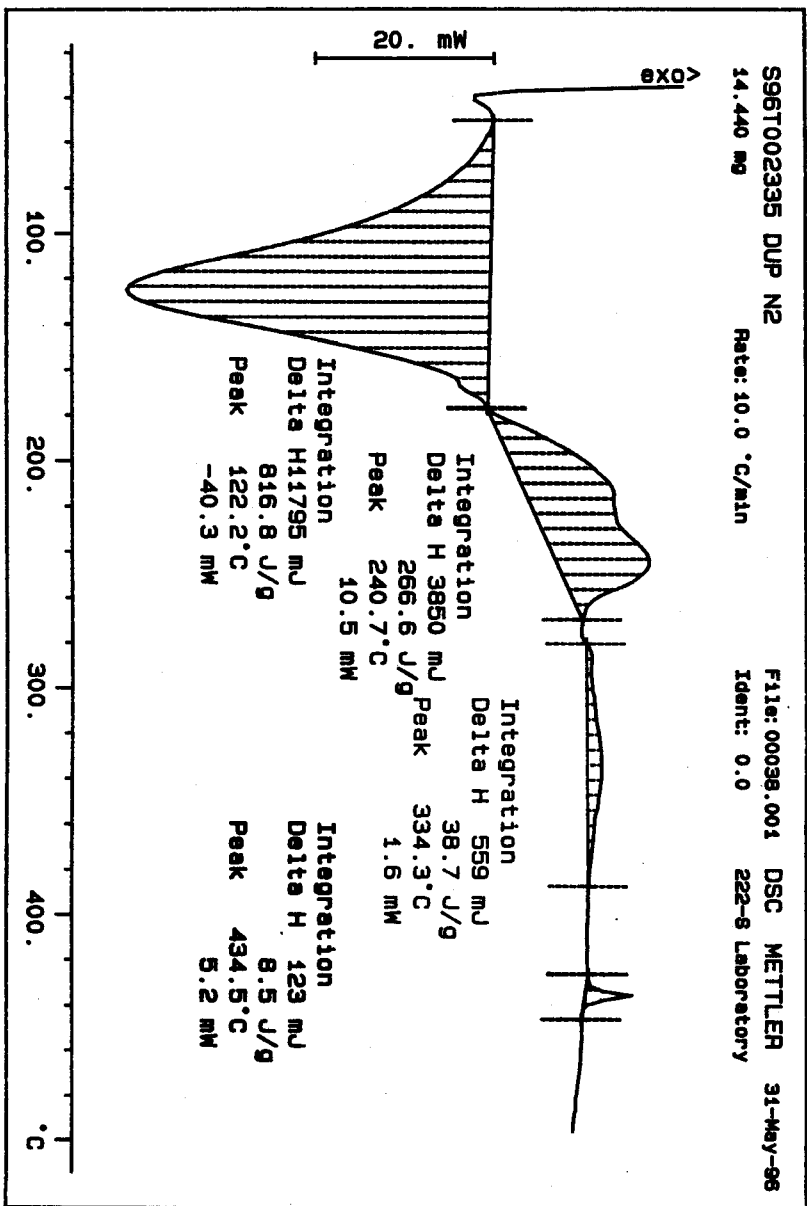


S96T002335 N2
12.600 mg

Rate: 10.0 °C/min

File: 00036.001 DSC METTLER 30-May-96
Ident: 0.0 222-6 Laboratory





LABCORE Data Entry Template for Worklist#

9260

Analyst: KRM Instrument: DSC0 1 Book # 12NM4B

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

Worklist Comment: U-102 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>32.6 *</u>	<u>N/A</u>	Joules/g
96000536	U-102	2 SAMPLE	S96T002338	0	DSC-01	SOLID	<u>N/A</u>	<u>61.0</u>		Joules/g
96000536	U-102	3 DUP	S96T002338	0	DSC-01	SOLID	<u>61.0</u>	<u>64.8</u>	<u>N/A</u>	Joules/g
96000536	U-102	4 SAMPLE	S96T002341	0	DSC-01	SOLID	<u>N/A</u>	<u>65.7</u>		Joules/g
96000536	U-102	5 DUP	S96T002341	0	DSC-01	SOLID	<u>65.7</u>	<u>86.5</u>	<u>N/A</u>	Joules/g

Final page for worklist #

9260

Analyst Signature

Date

Analyst Signature

Date

Verified/Validated by
Blandina Valenzuela
6/14/96

Data Entry Comments:

The chem tech integrating sample S96T002341 was a little over zealous in his integration. The results crossed out the excess results.

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 87 TO 91.

DSC STD 12N14-B

11.820 mg

Rate: 10.0 °C/min

File: 00043.001

Ident: 0.0

DSC METTLER

31-May-96

222-S Laboratory

exo

20. mW

Integration
Delta H 379 mJ
32.6 J/g
Peak 158.4 °C
-25.4 mW

120.

140.

160.

180. °C

[Signature] 5-31-96

S96T002338 N2

21.218 mg

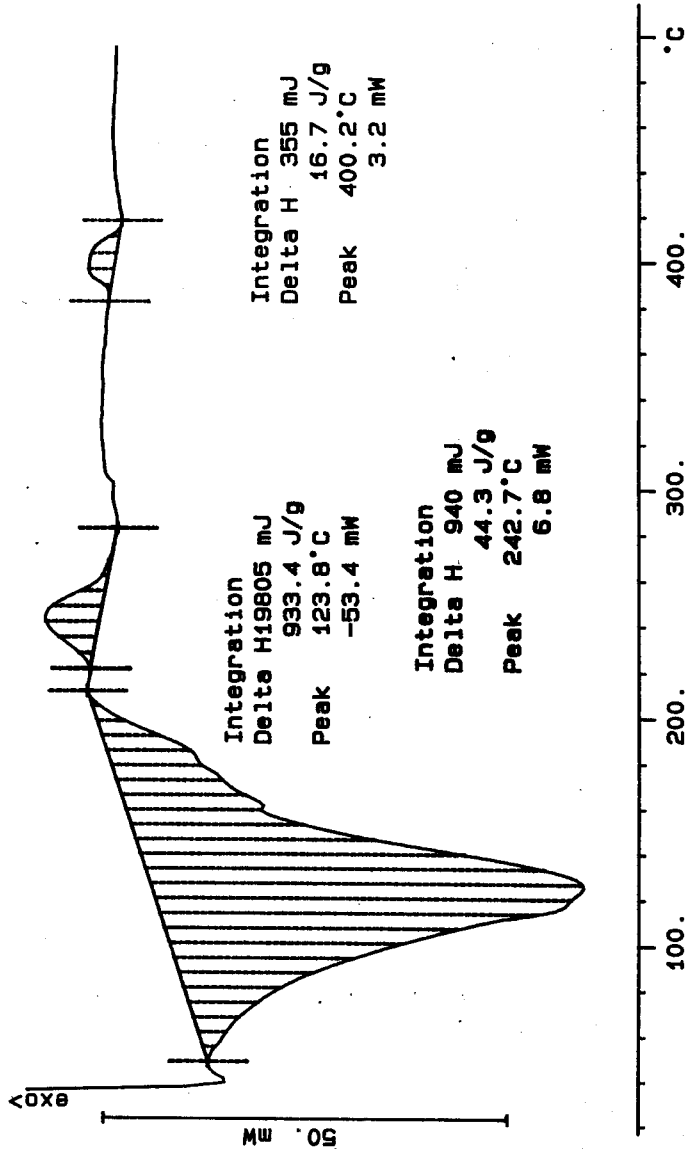
File: 00048.001

Ident: 0.0

DSC METTLER 31-May-96

Rate: 10.0 °C/min

222-S Laboratory



S96T002338 DUP N2

18.509 mg

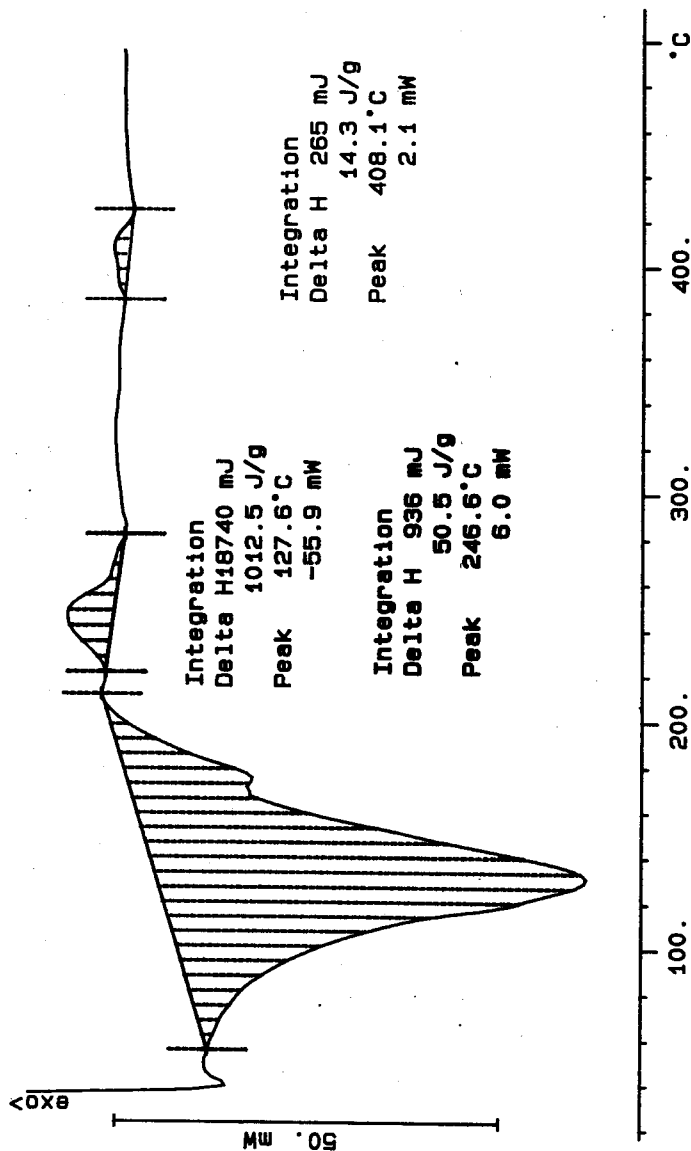
Rate: 10.0 °C/min

File: 00050.001

Ident: 0.0

DSC METTLER 31-May-96

222-S Laboratory



S96T002341 SAM N2

10.070 mg

Rate: 10.0 °C/min

File: 00052.001

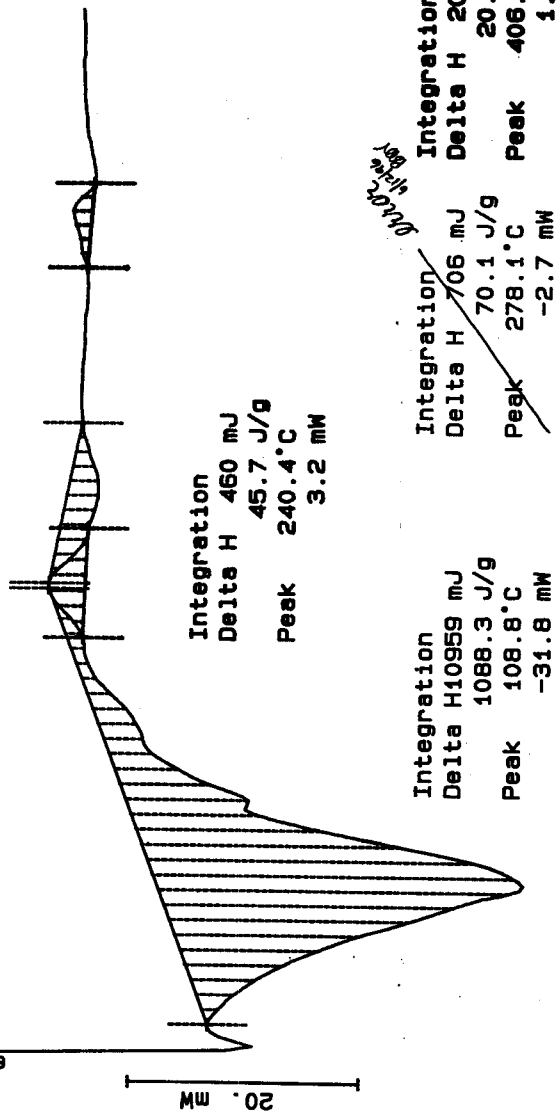
DSC METTLER

31-May-96

Ident: 0.0

222-S Laboratory

exo y



S96T002341 DUP N2

33.350 mg

Rate: 10.0 °C/min

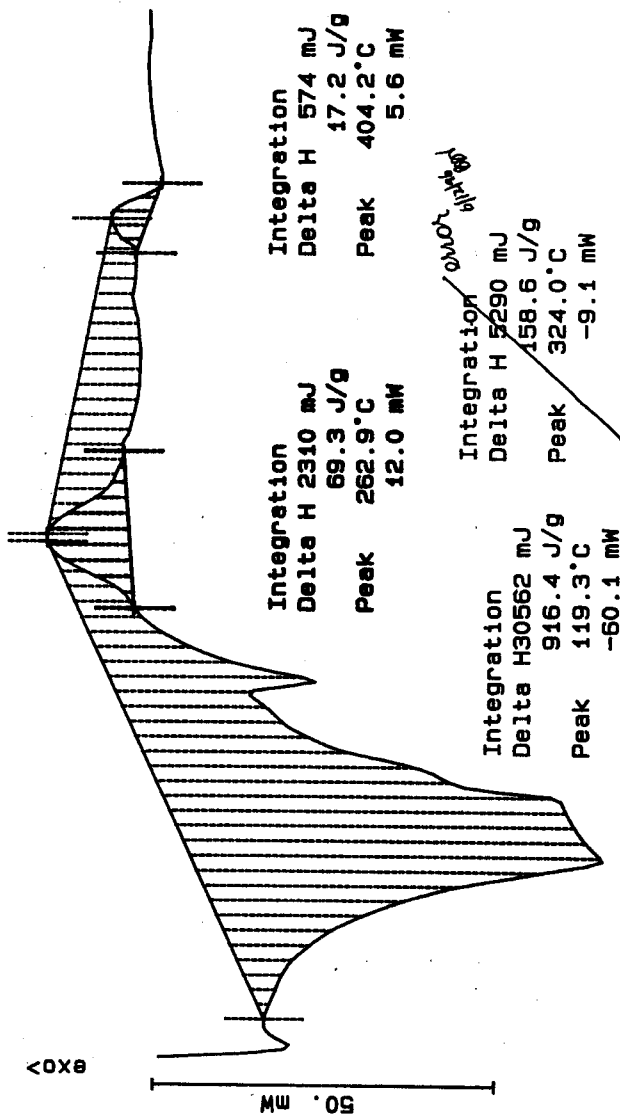
File: 00054.001

Ident: 0.0

DSC METTLER 31-May-86

222-S Laboratory

X0X8



LABCORE Data Entry Template for Worklist#

9261

Analyst: ADP Instrument: DSC0 3 Book # 12N4B

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

Worklist Comment: U-102 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-03	SOLID	<u>28.45</u>	<u>28.12</u>	<u>N/A</u>	Joules/g
96000536	U-102	2 SAMPLE	S96T002344	0	DSC-03	SOLID	<u>N/A</u>	<u>0</u>		Joules/g
96000536	U-102	3 DUP	S96T002344	0	DSC-03	SOLID	<u>0</u>	<u>11.7</u>	<u>N/A</u>	Joules/g
96000536	U-102	4 TRIPL	S96T002344	0	DSC-03	SOLID	<u>0</u>	<u>8.05</u>	<u>N/A</u>	Joules/g
96000536	U-102	5 SAMPLE	S96T002347	0	DSC-03	SOLID	<u>N/A</u>	<u>0</u>		Joules/g
96000536	U-102	6 DUP	S96T002347	0	DSC-03	SOLID	<u>0</u>	<u>57.2</u>	<u>N/A</u>	Joules/g

Final page for worklist #

9261

See attached for signatures
Analyst Signature Date 6-12-96

[Signature] 6-13-96
Analyst Signature Date

Verified/Validated by
Blandina Valenzuela
6/14/96

S96T002344 was run in triplicate because of the small difference between sample and duplicate.

Data Entry Comments: S96T002347 was not run in triplicate because the duplicate result was not close to the notification limit.

LABCORE Data Entry Template for Worklist#

9261

Analyst: ADP Instrument: DSC0 _____ Book # 12 N14B

Method: LA-514-113 Rev/Mod C1

Worklist Comment: U-102 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
96000536	U-102	2 SAMPLE	S96T002344	0	DSC-01	SOLID	N/A	_____	_____	Joules/g
96000536	U-102	3 DUP	S96T002344	0	DSC-01	SOLID	_____	_____	N/A	Joules/g
96000536	U-102	4 SAMPLE	S96T002347	0	DSC-01	SOLID	N/A	_____	_____	Joules/g
96000536	U-102	5 DUP	S96T002347	0	DSC-01	SOLID	_____	_____	N/A	Joules/g

Final page for worklist # 9261

Anthony Puriator 05-31-96
Analyst Signature Date

Analyst Signature Date

DSC-03 instrument
was used.

6-12-96

Blandina
Valenzuela

Data Entry Comments:

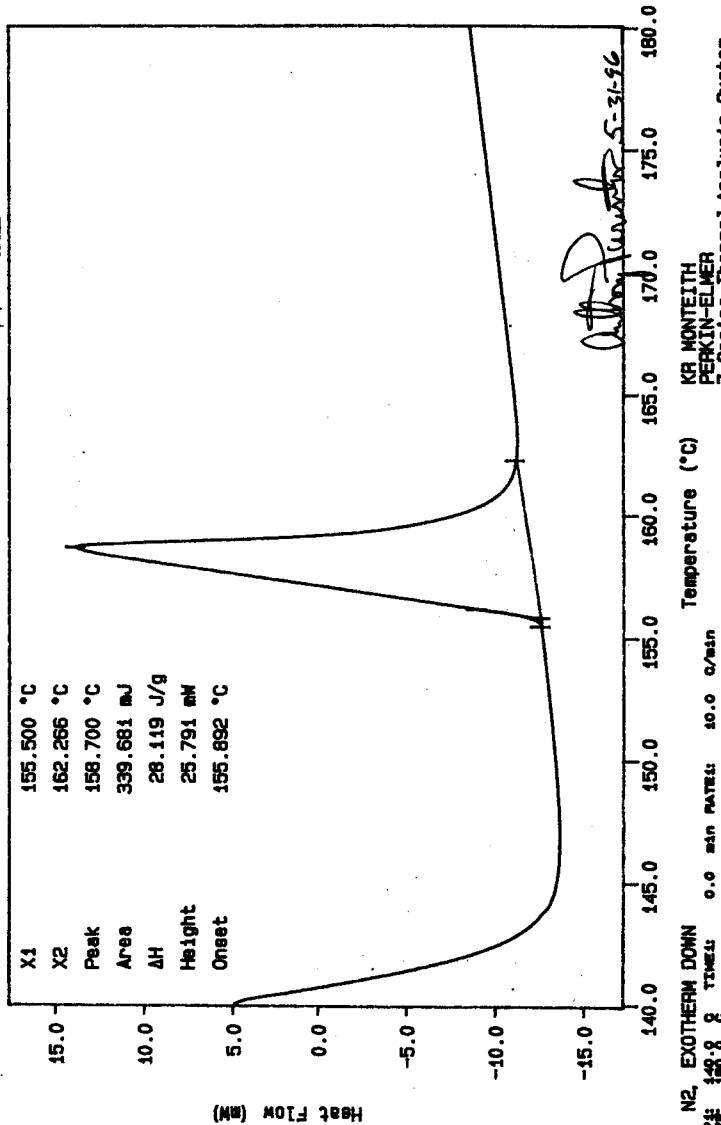
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

Curve 1: DSC

File Info: IND053101 Fri May 31 15:11:17 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 94 TO 99.



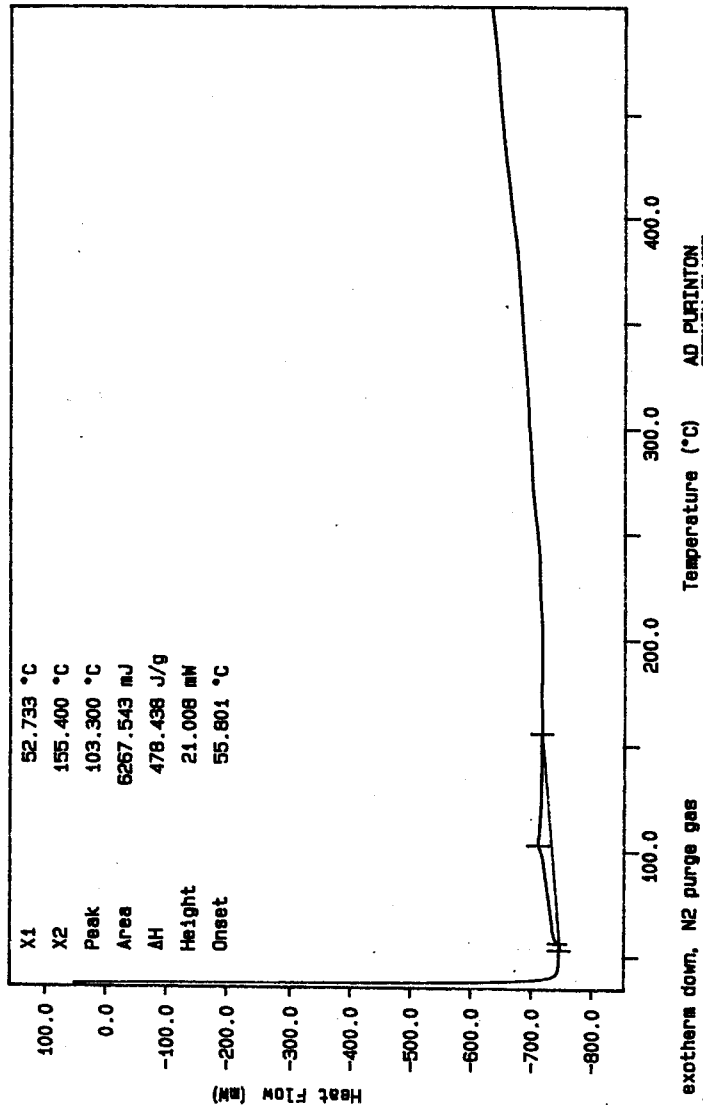
N2, EXOTHERM DOWN
TEMP: 158.8 °C TIME: 0.0 min RATE: 10.0 °C/min
KB MONTEITH
PERKIN-ELMER
7 Series Thermal Analysis System

Curve 1: DSC

File info: SAM053101 Fri May 31 19:15:43 1996

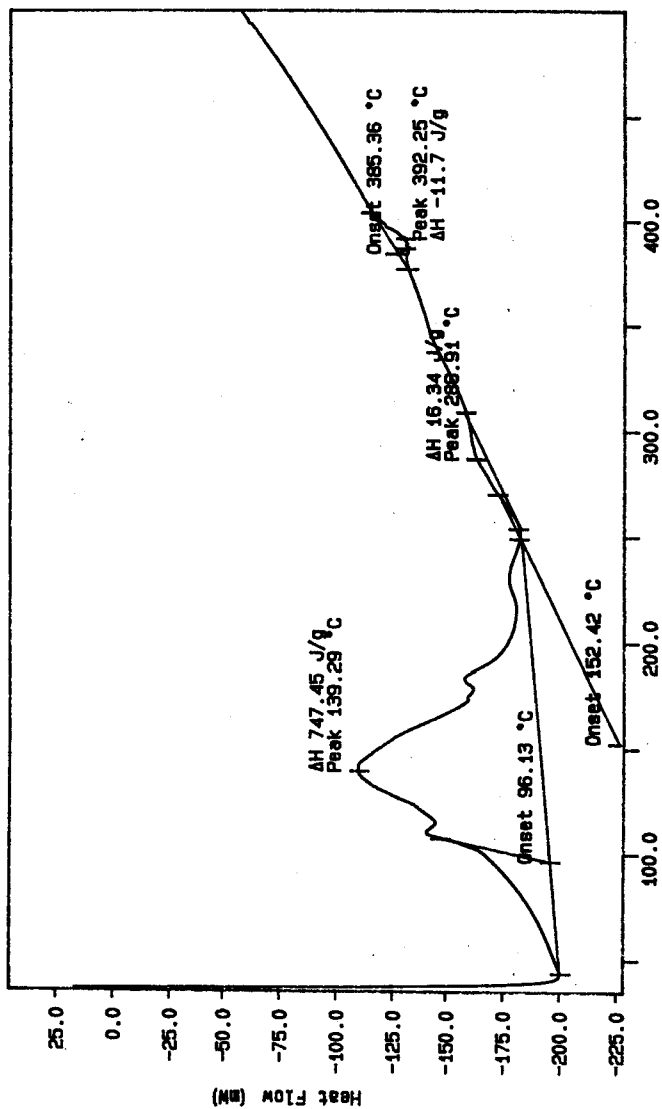
Sample Weight: 13.100 mg

S96T002344 SAM



exotherm down, N2 purge gas
 Temp: 50.0 °C
 Time: 0.0 min
 Rate: 10.0 °C/min

Curve 1: DSC
 File Info: SAM053102 Fri May 31 21:59:10 1996
 Sample Weight: 46.410 mg
 S95T002344 DUP



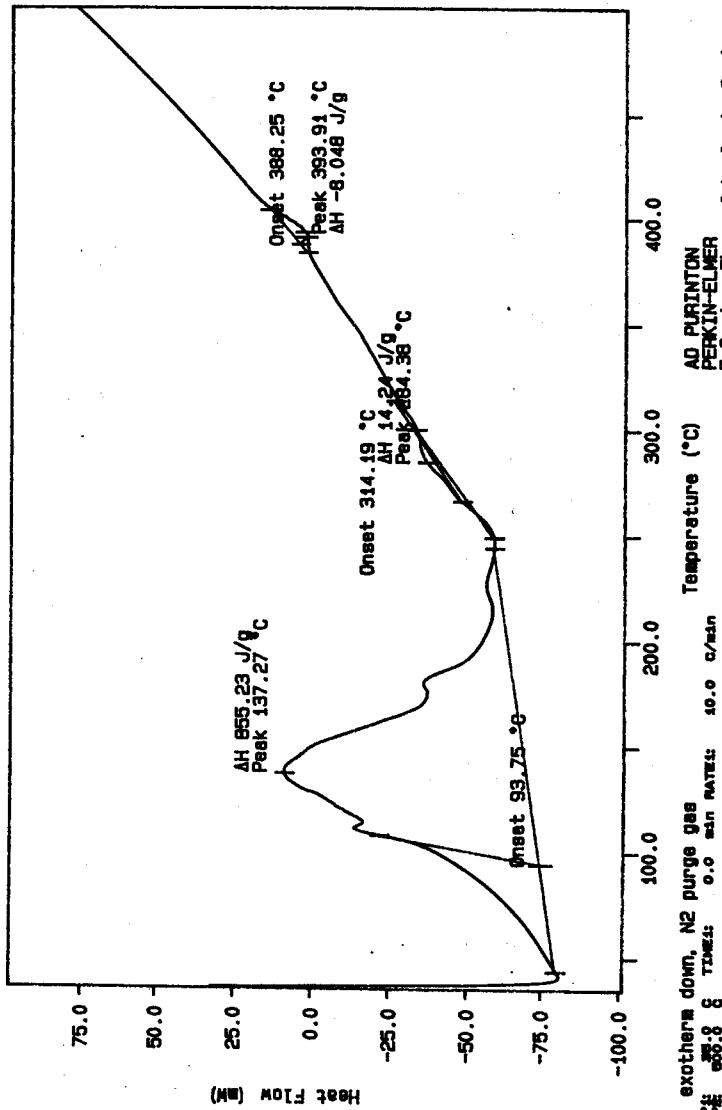
exotherm down, N2 purge gas
 Temperature (°C)
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System

Curve 1: DSC

File Info: SAM053105 Sat Jun 1 02:35:49 1996

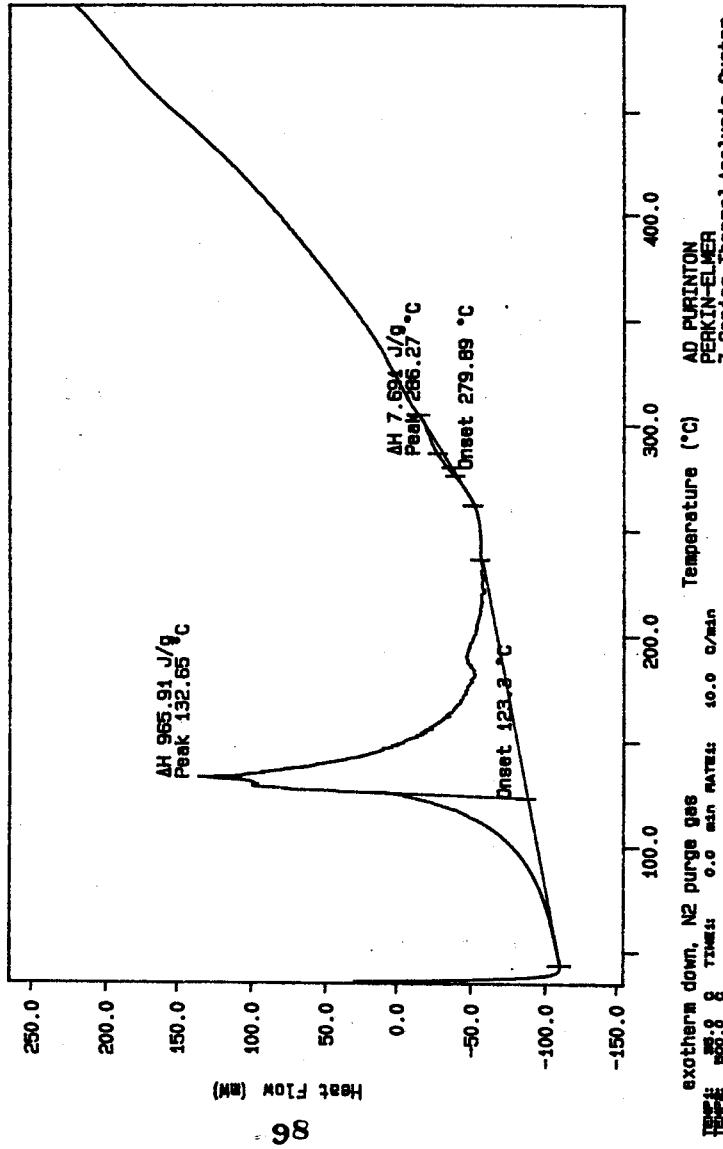
Sample Weight: 40.240 mg

S96T002344 TBP

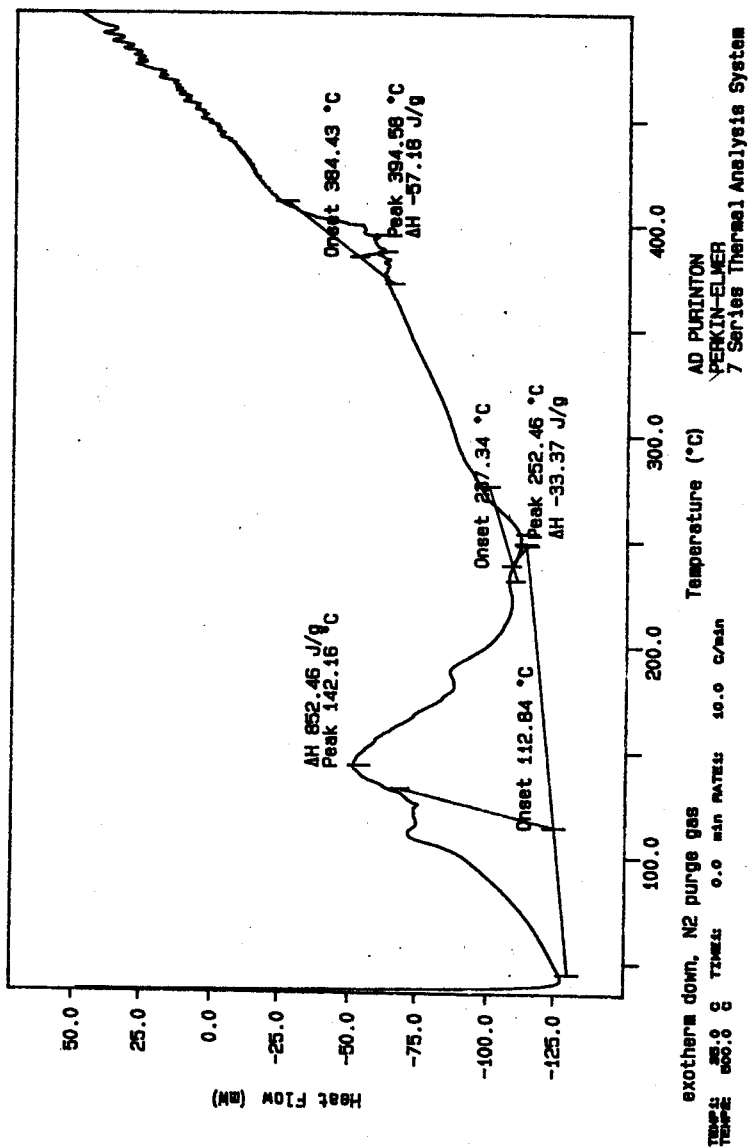


AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System

Curve 1: DSC
 File info: SAM053103 Fri May 31 23:17:44 1996
 Sample Weight: 41.070 mg
 S96T002347 SAM



Curve 1: DSC
 File Info: SMO53104 Sat Jun 1 01:28:25 1996
 Sample Weight: 39.200 mg
 S96T002347 DUP



LABCORE Data Entry Template for Worklist#

9381

Analyst: AD Instrument: DSC0 1 Book # 111N 12N14B
6-1-96

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

Worklist Comment: U-102 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	<u>28.45</u>	<u>31.6</u>	<u>*</u>	Joules/g
96000536	U-102	2 SAMPLE	S96T002665	0		DSC-01	SOLID	<u>N/A</u>	<u>193.8</u>		Joules/g
96000536	U-102	3 DUP	S96T002665	0		DSC-01	SOLID	<u>193.8</u>	<u>98.1</u>	<u>N/A</u>	Joules/g
96000536	U-102	4 SAMPLE	S96T002666	0		DSC-01	SOLID	<u>N/A</u>	<u>97.4</u>		Joules/g
96000536	U-102	5 DUP	S96T002666	0		DSC-01	SOLID	<u>97.4</u>	<u>111.8</u>	<u>N/A</u>	Joules/g

Final page for worklist #

9381

AD 6-1-96
Analyst Signature Date

RJ 6-5-96
Analyst Signature Date

Validated by AD 6-6-96

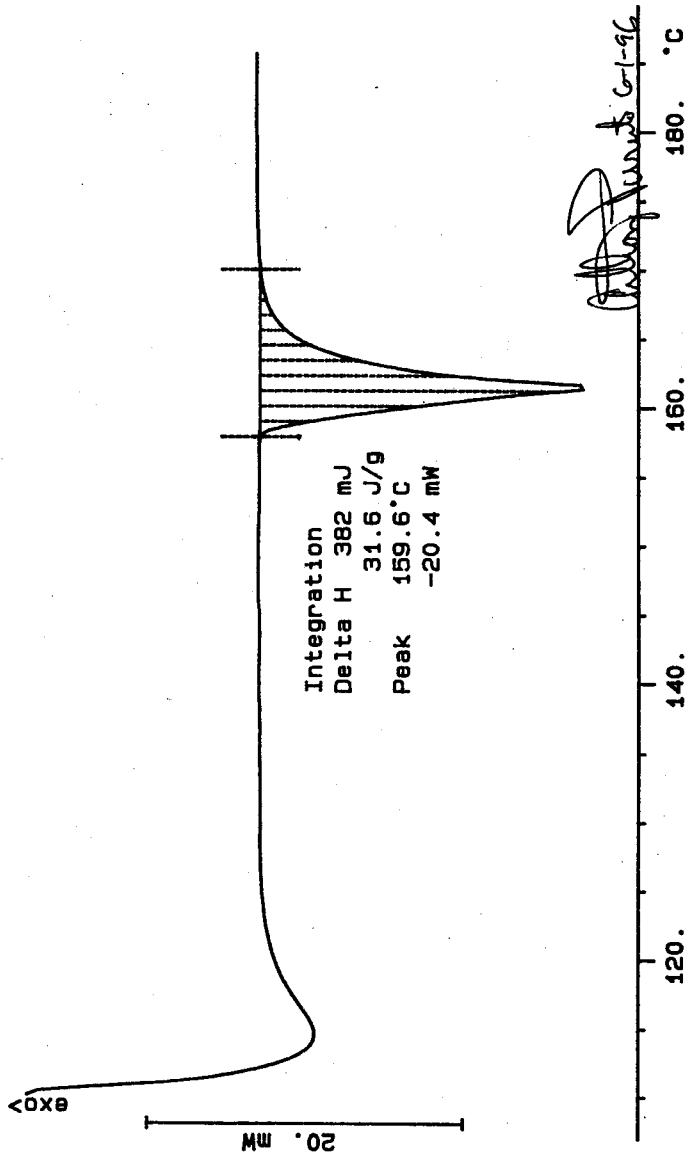
S96T002665 sample will be rerun due to high RPD's and the thermograms did not look similar.

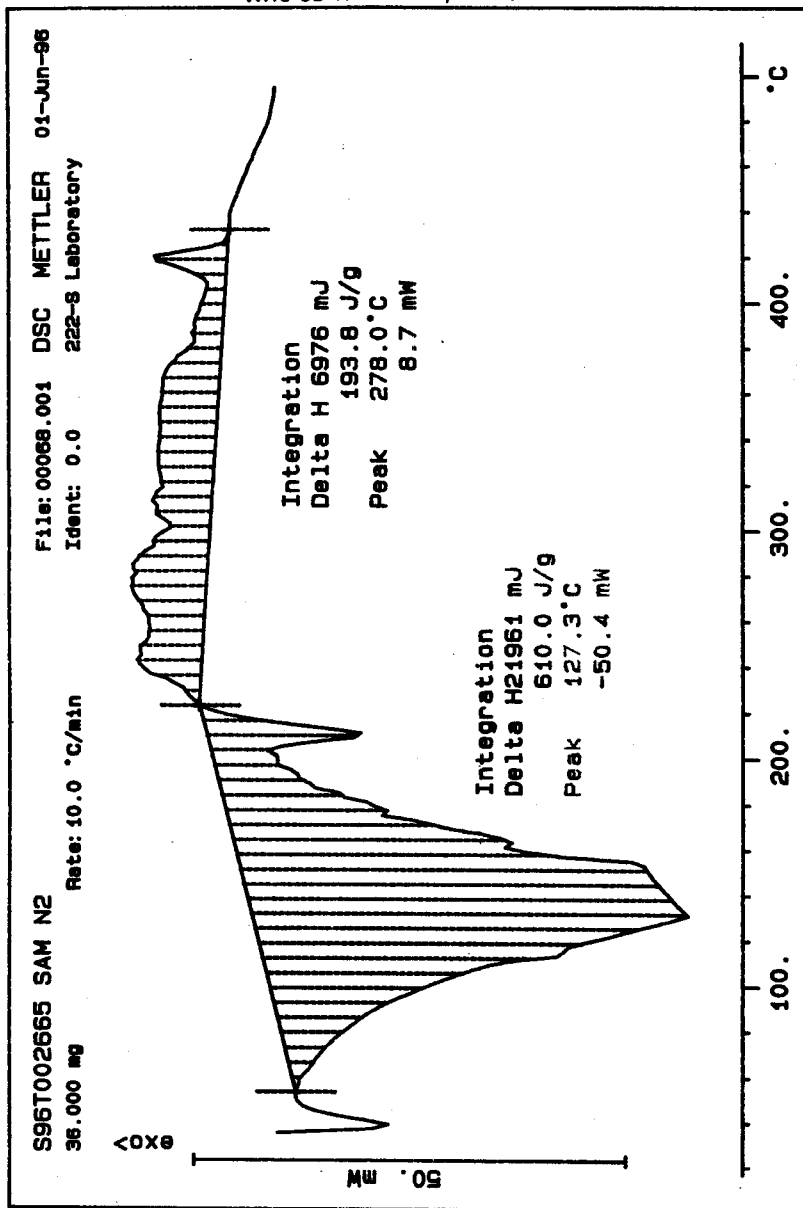
Data Entry Comments: S96T002666 samples were not rerun because the RPD's were close to 10% and the results are not close to the notification limit.

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 101 TO 105.

DSC STD 12N14B File: 00060.001 DSC METTLER 01-Jun-96
12.080 mg Rate: 10.0 °C/min Ident: 0.0 222-S Laboratory



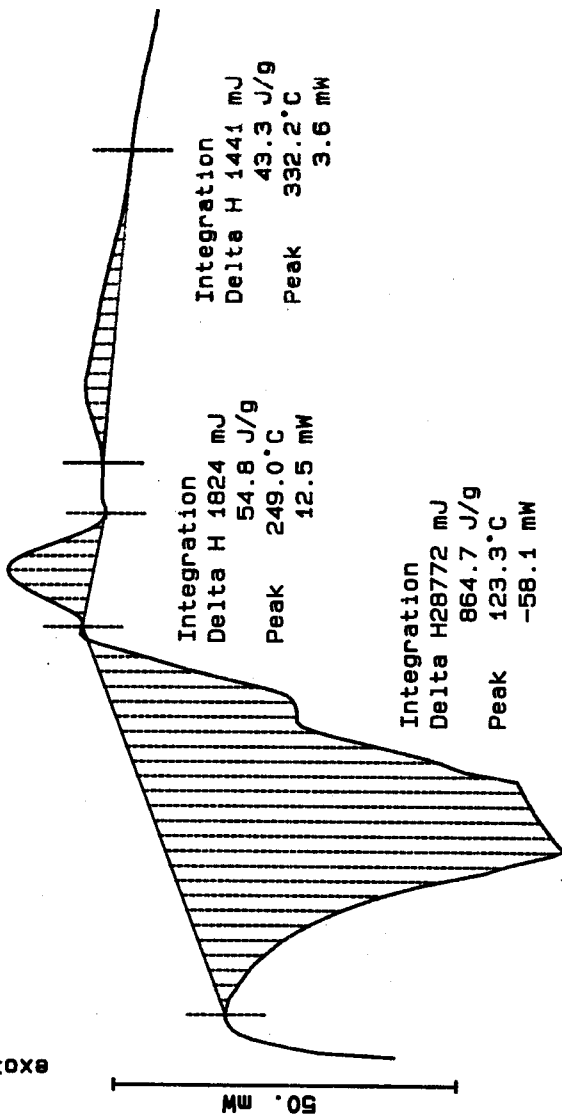


S96T002665 DUP N2
33.275 mg

Rate: 10.0 °C/min

File: 00070.001 DSC METTLER 01-JUN-98
Ident: 0.0 222-S Laboratory

ΔX₀



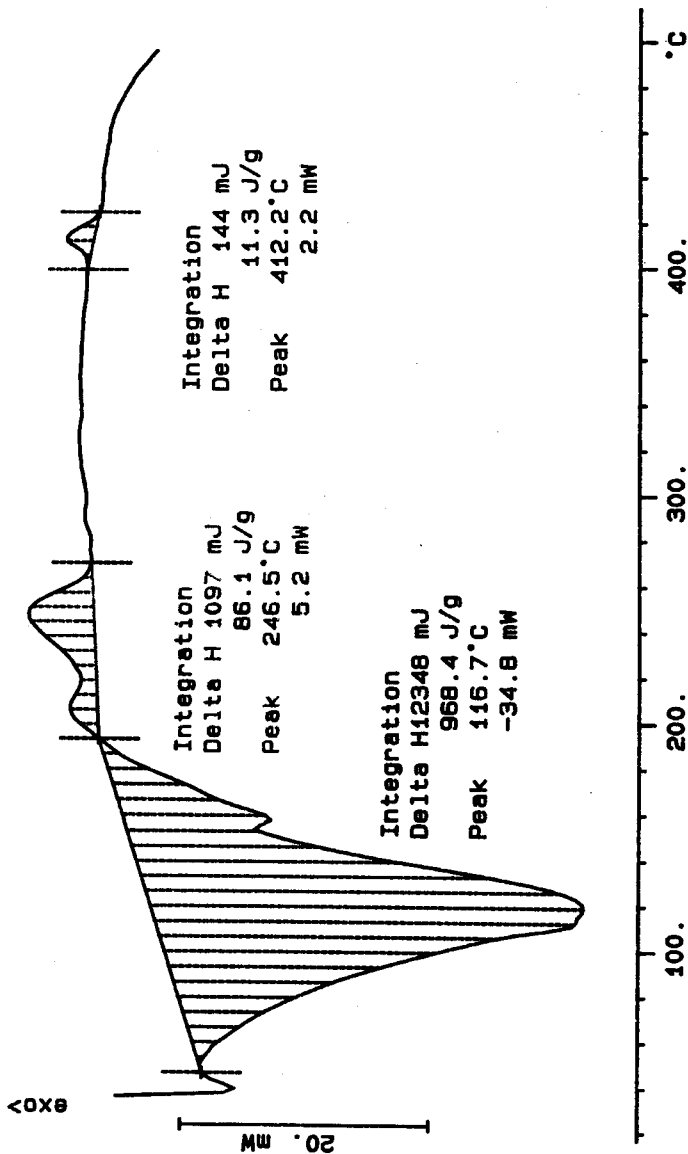
S96T002666 SAM N2

12.760 mg

Rate: 10.0 °C/min

File: 00072.001 DSC METTLER 01-Jun-96

Ident: 0.0 222-S Laboratory



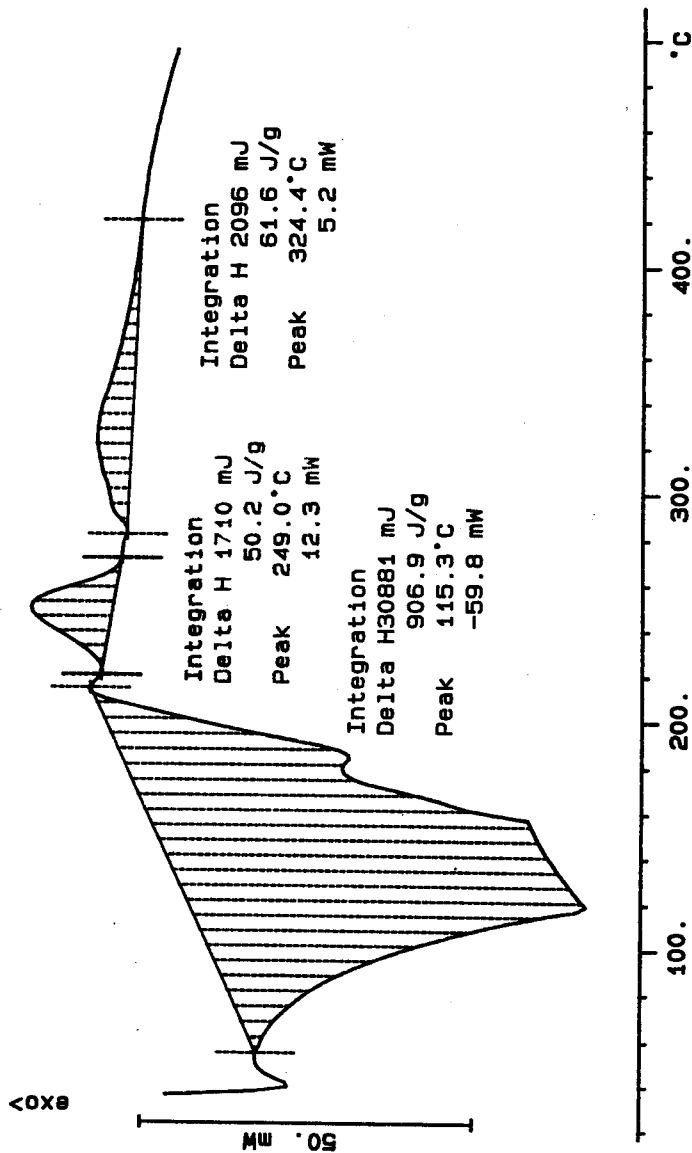
S96T002666 DUP N2

34.050 mg

Rate: 10.0 °C/min

File: 00074.001 DSC METTLER 02-Jun-96

Ident: 0.0 222-s Laboratory



LABCORE Data Entry Template for Worklist#

9382

Analyst: ADP Instrument: DSC0 1 Book # 12N14B

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

Worklist Comment: U-102 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>31.9</u> *	<u>N/A</u>	Joules/g
96000536	U-102	2 SAMPLE	S96T002755 0		DSC-01	SOLID	<u>N/A</u>	<u>70.2</u>		Joules/g
96000536	U-102	3 DUP	S96T002755 0		DSC-01	SOLID	<u>70.2</u>	<u>62.2</u>	<u>N/A</u>	Joules/g

Final page for worklist #

9382

Anthony Purnston 5-31-96
Analyst Signature Date

RLH 6-3-96
Analyst Signature Date

Validated by JHnastn 6-6-96

Data Entry Comments:

Sample results 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/VERICIED THE CALIBRATION/ANALYSIS ON PAGES 107 TO 109.

DSC STD 12N14-B

11.520 mg

Rate: 10.0 °C/min

File: 00043.001

DSC METTLER

31-May-96

Ident: 0.0

222-S Laboratory

EXO

20. mW

Integration

Delta H 370 mJ

31.9 J/g

Peak

158.4 °C

-25.3 mW

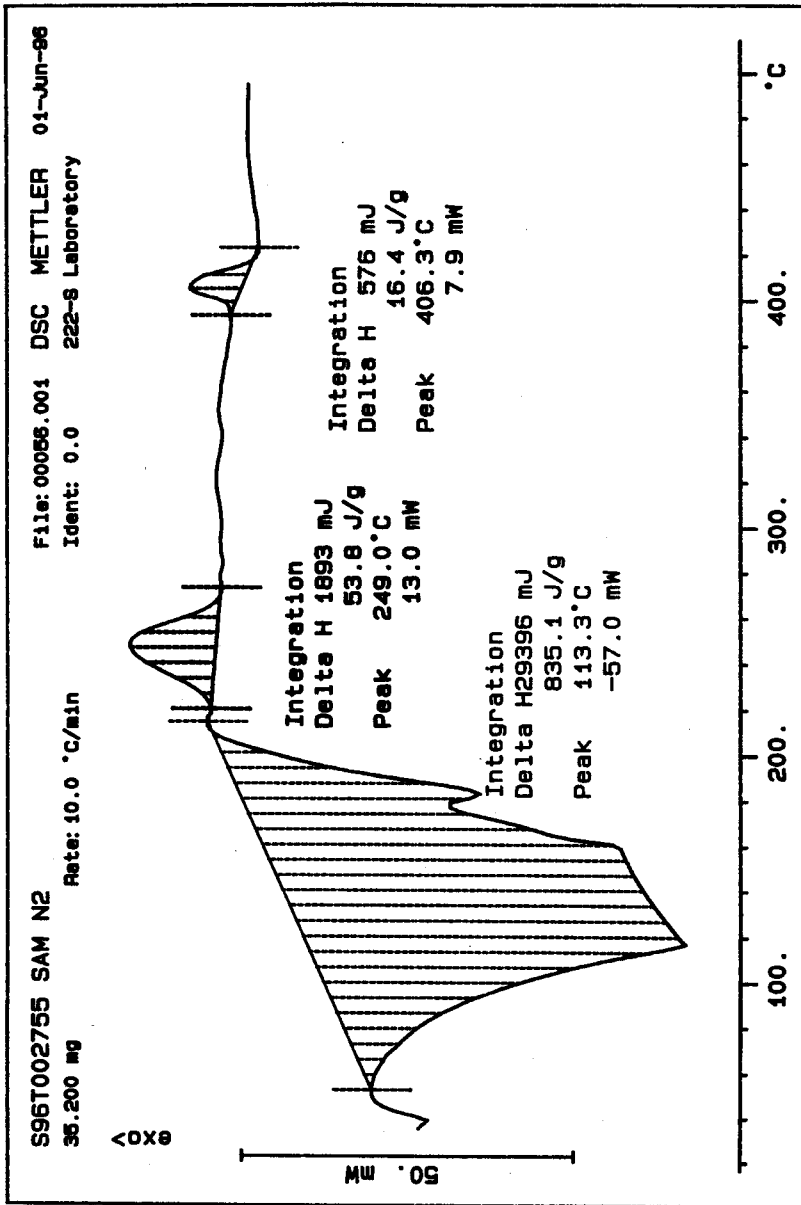
120.

140.

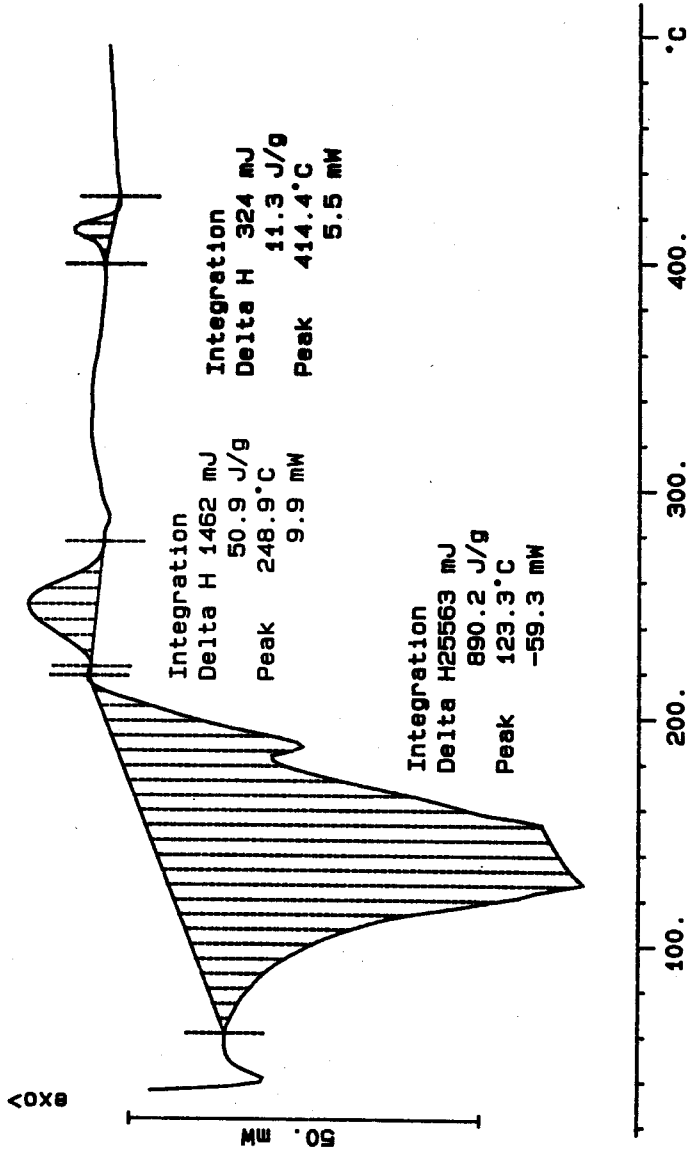
160.

180. °C

[Signature] 053196



S96T002755 DUP N2
 29.715 mg
 Rate: 10.0 °C/min
 File: 00058.001 DSC METTLER 01-Jun-98
 Ident: 0.0 222-S Laboratory



LABCORE Data Entry Template for Worklist#

9459

Analyst: DcD Instrument: DSC0 1 Book # 12N14B

Method: LA-514-113 Rev/Mod C-1
102 MIA 6/2/96

Worklist Comment: U-108 DSC RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>29.0*</u>	<u>N/A</u>	Joules/g
96000536	U-102	2 SAMPLE	S96T002500	0	DSC-01	SOLID	<u>N/A</u>	<u>16.6</u>		Joules/g
96000536	U-102	3 DUP	S96T002500	0	DSC-01	SOLID	<u>16.6</u>	<u>15.5</u>	<u>N/A</u>	Joules/g
96000536	U-102	4 SAMPLE	S96T002501	0	DSC-01	SOLID	<u>N/A</u>	<u>19.0</u>		Joules/g
96000536	U-102	5 DUP	S96T002501	0	DSC-01	SOLID	<u>19.0</u>	<u>15.5</u>	<u>N/A</u>	Joules/g

Final page for worklist #

9459

Daniel Dunham 6-4-96
Analyst Signature Date

James H. Hines 6-5-96
Analyst Signature Date

Verified/Validated by
Blandina Valenzuela 6/12/96

RT/Label 6-11-96

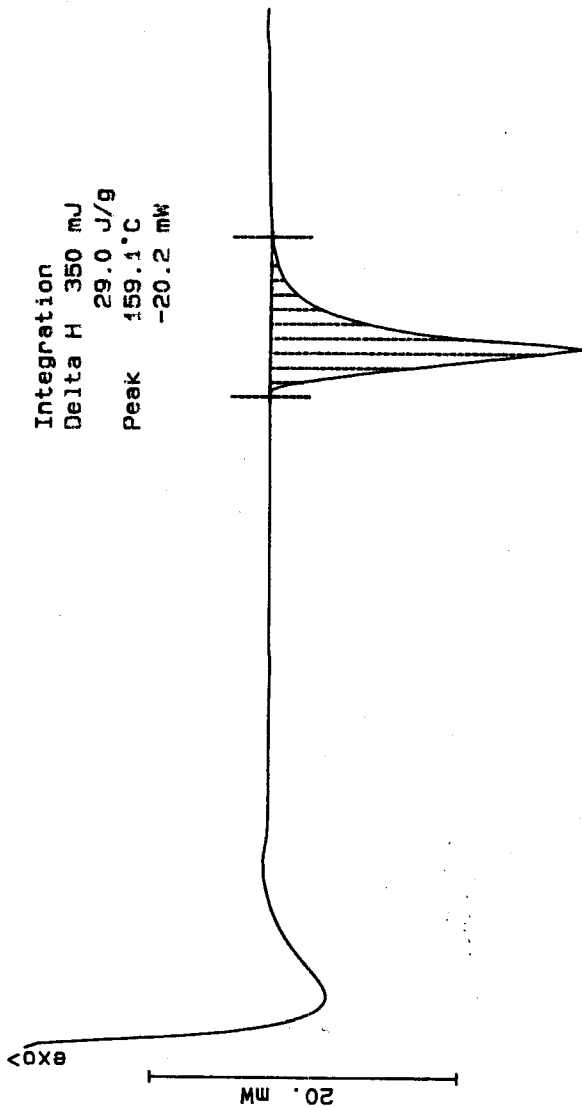
Data Entry Comments:

RT/Label

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 111 TO 115.

DSC STD 12N14-B N2 File: 00012.001 DSC METTLER 04-Jun-96
12.080 mg Rate: 10.0 °C/min Ident: 0.0 222-S Laboratory



120. 140. 160. 180. °C

David D. Johnson 6-4-96

S96T002500 SAM N2

28.860 mg

Rate: 10.0 °C/min

File: 00028.001

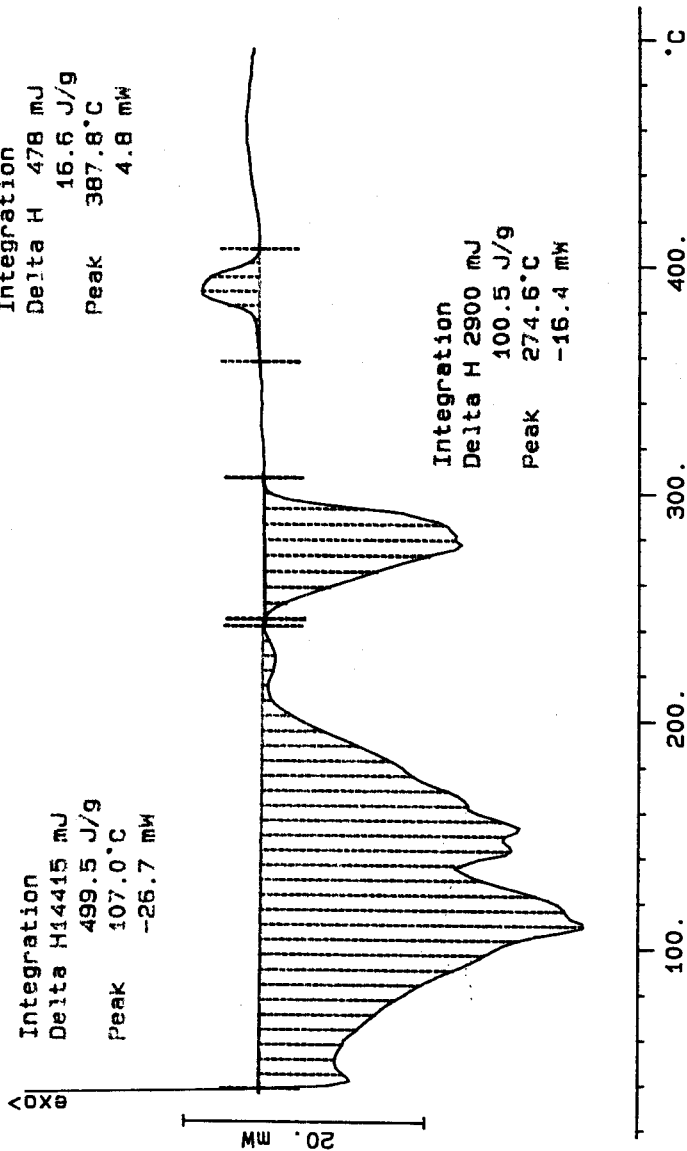
Ident: 0.0

DSC METTLER 05-Jun-96

222-S Laboratory

Integration
Delta H 14415 mJ
499.5 J/g
Peak 107.0 °C
-26.7 mW

Integration
Delta H 478 mJ
16.6 J/g
Peak 387.8 °C
4.8 mW



S96T002500 DUP N2

25.272 mg

Rate: 10.0 °C/min

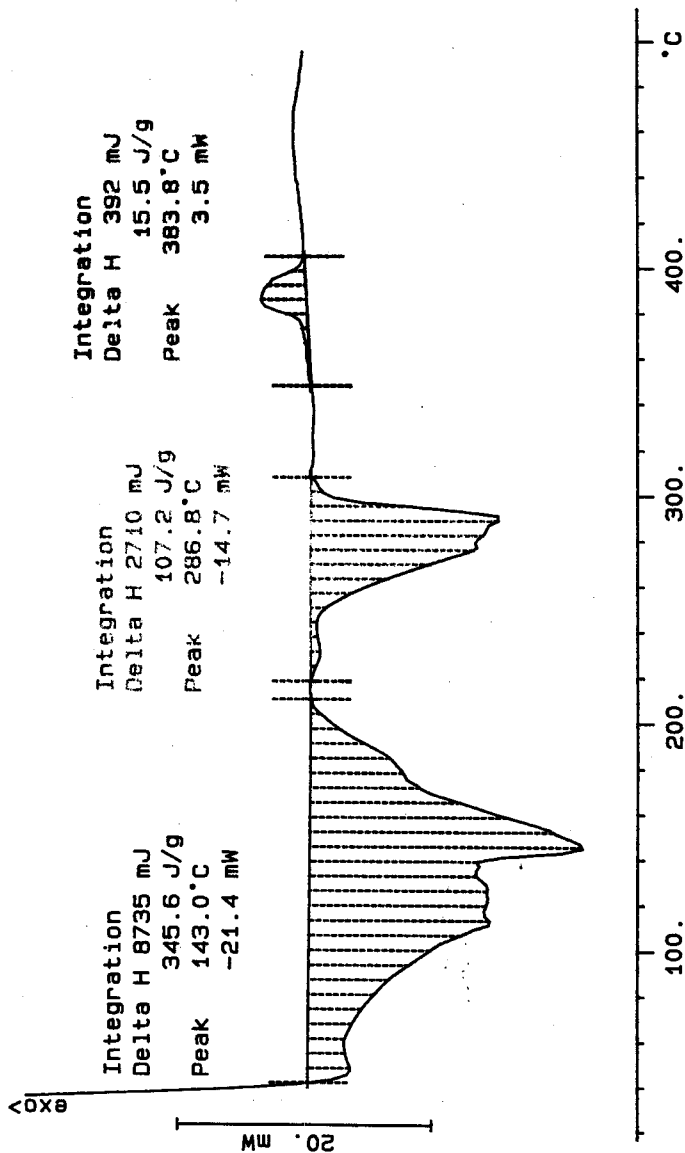
File: 00029.001

Ident: 0.0

DSC METTLER

05-Jun-96

222-S Laboratory



S96T0002501 SAM N2

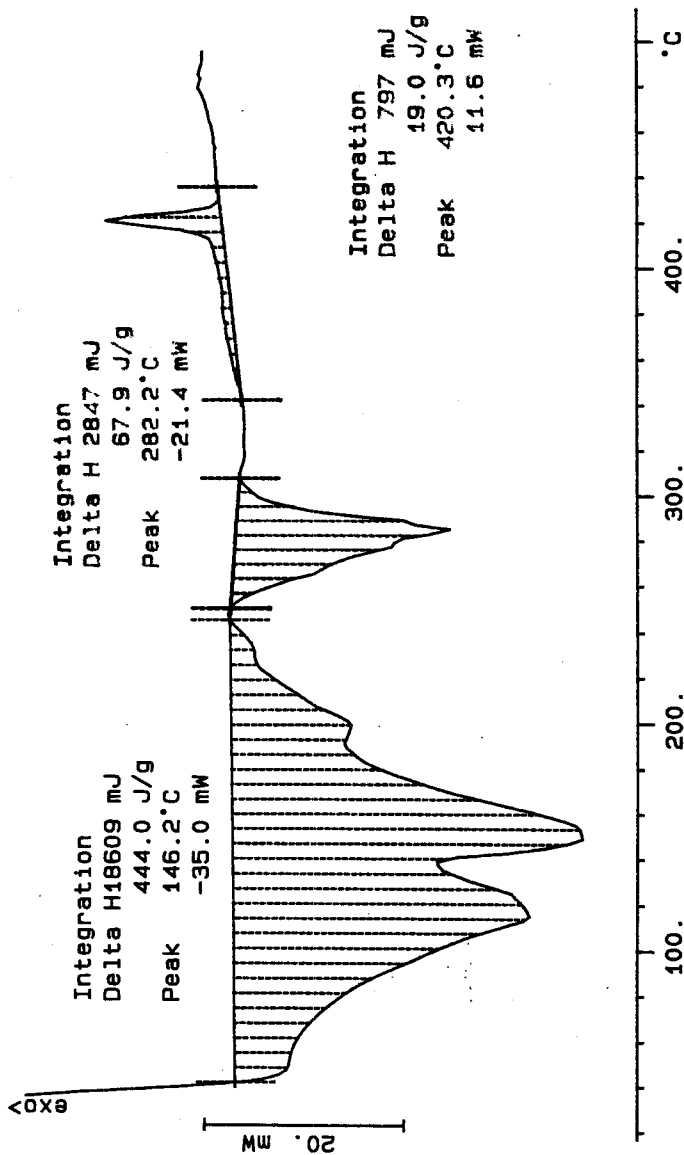
41.910 mg

Rate: 10.0 °C/min

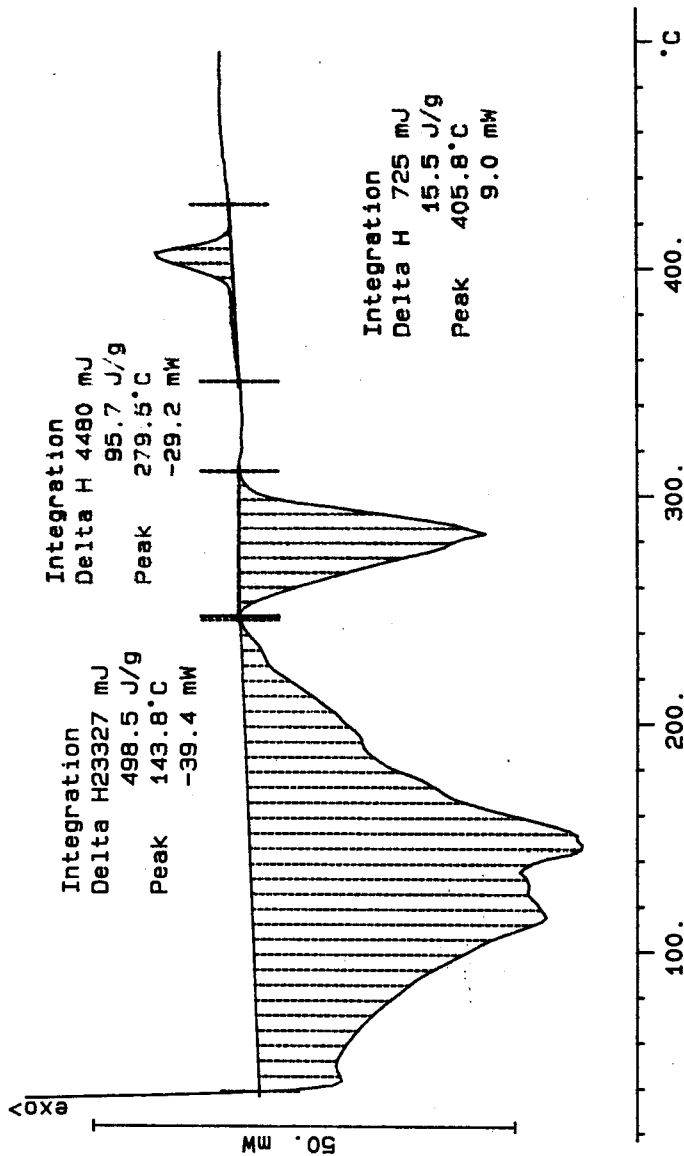
File: 00032.001

DSC METTLER 05-Jun-96

Ident: 0.0 222-S Laboratory



S96T0002501 DUP N2
46.790 mg
Rate: 10.0 °C/min
File: 00033.001 DSC METTLER 05-Jun-96
Ident: 0.0 222-S Laboratory



LABCORE Data Entry Template for Worklist#

9540

Analyst: DGD Instrument: DSC0 1 Book # 12N14-B

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

Worklist Comment: U-102 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	31.4 ^X	N/A	Joules/g
96000569	U-102	2 SAMPLE	S96T002549	0	DSC-01	LIQUID	N/A	111.5		Joules/g
96000569	U-102	3 DUP	S96T002549	0	DSC-01	LIQUID	111.5	146.6	N/A	Joules/g
96000569	U-102	4 SAMPLE	S96T002762	0	DSC-01	LIQUID	N/A	Ø		Joules/g
96000569	U-102	5 DUP	S96T002762	0	DSC-01	LIQUID	Ø	Ø	N/A	Joules/g

Final page for worklist #

9540

Daniel C. Dunham 6-5-96
Analyst Signature Date

R. J. Jones 6-5-96
Analyst Signature Date

Validated by H. Anastro 6-6-96

S96T002549 results are the sum of two exotherms.

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 117 TO 121.

DSC STD 12N14-B N2

12.080 mg

Rate: 10.0 °C/min

File: 00016.001

DSC METTLER

04-Jun-96

Ident: 0.0

222-S Laboratory

exo

20. mW

Integration

Delta H 379 mJ

31.4 J/g

Peak 159.3°C

-20.3 mW

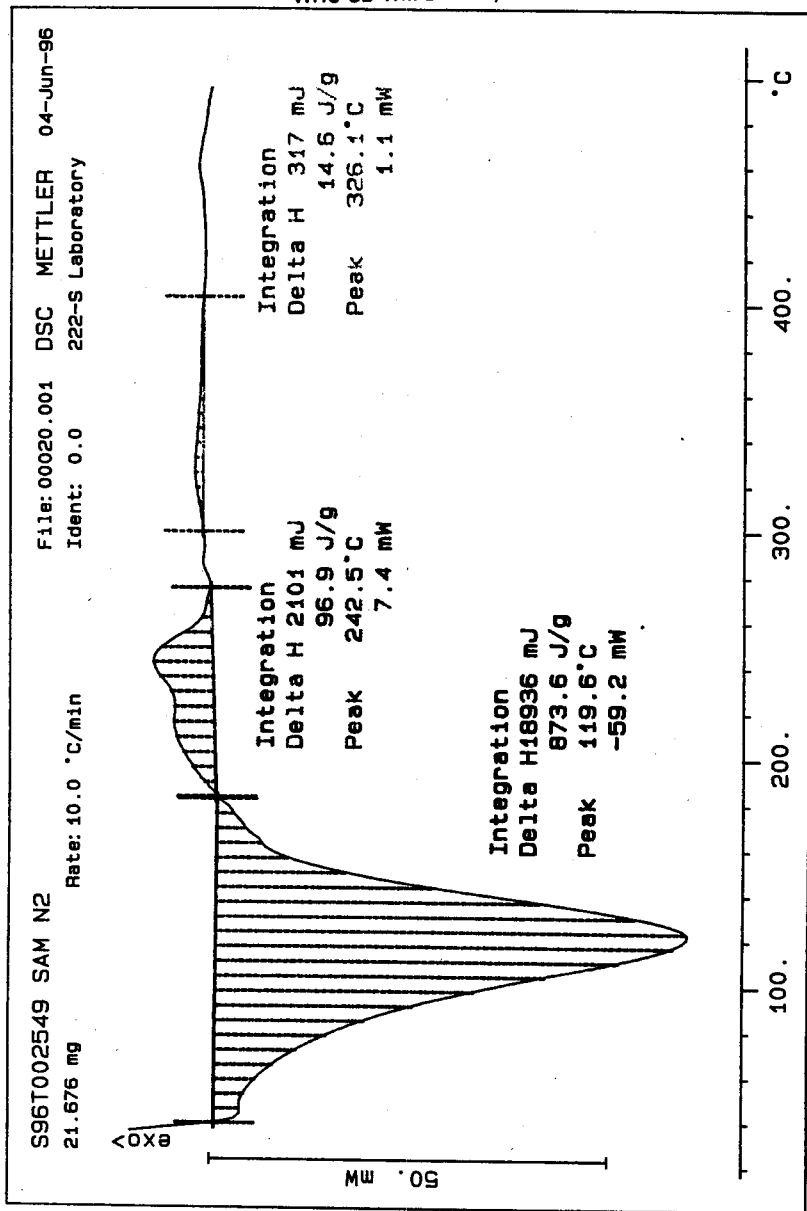
120.

140.

160.

180. °C

David D. Dunham
6-4-96



S96T002549 DUP N2

11.638 mg

Rate: 10.0 °C/min

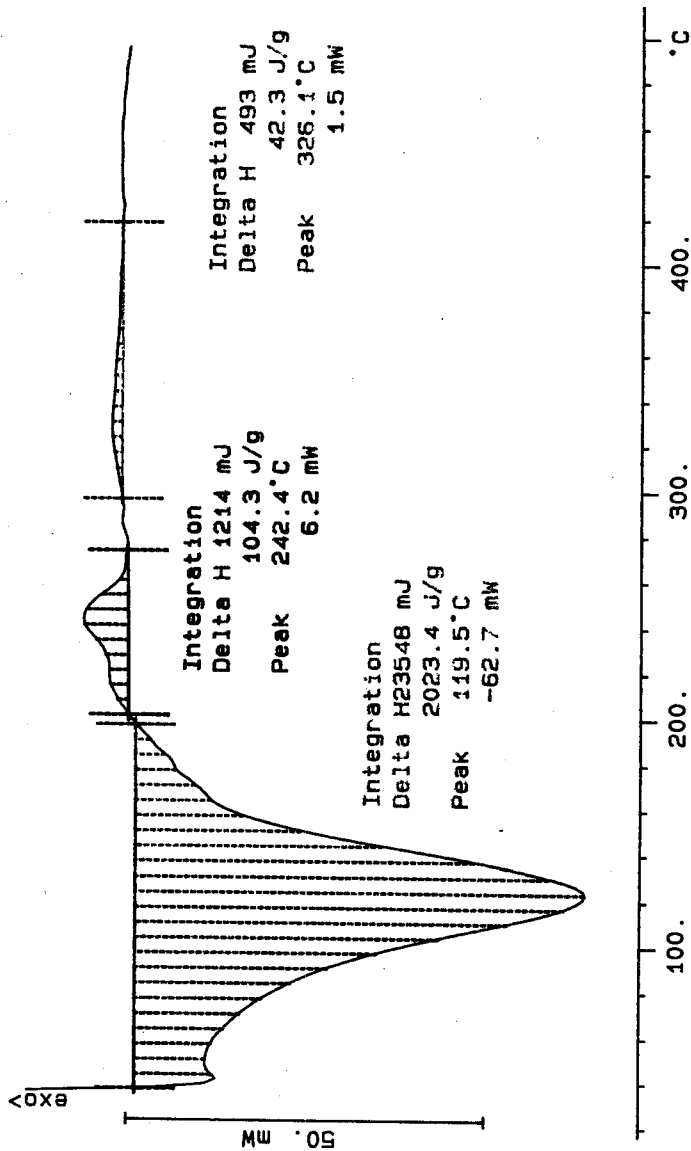
File: 00022.001

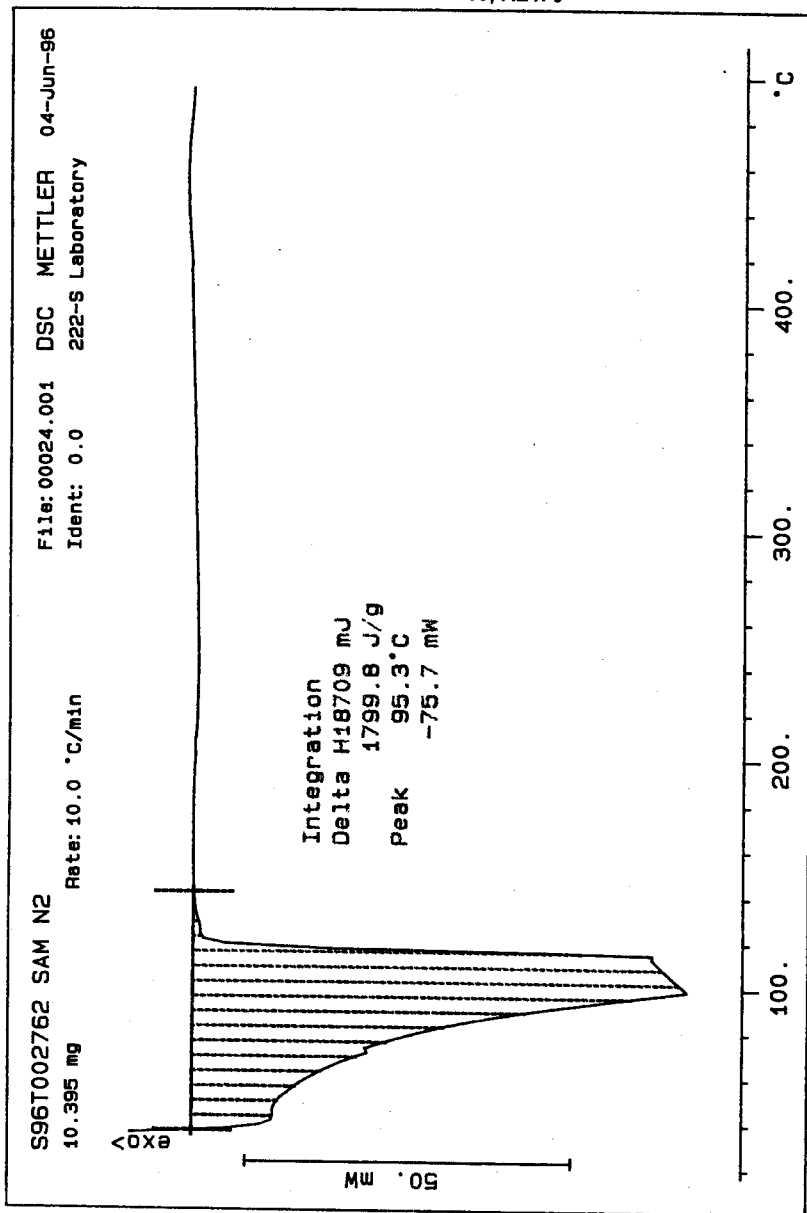
Ident: 0.0

DSC METTLER

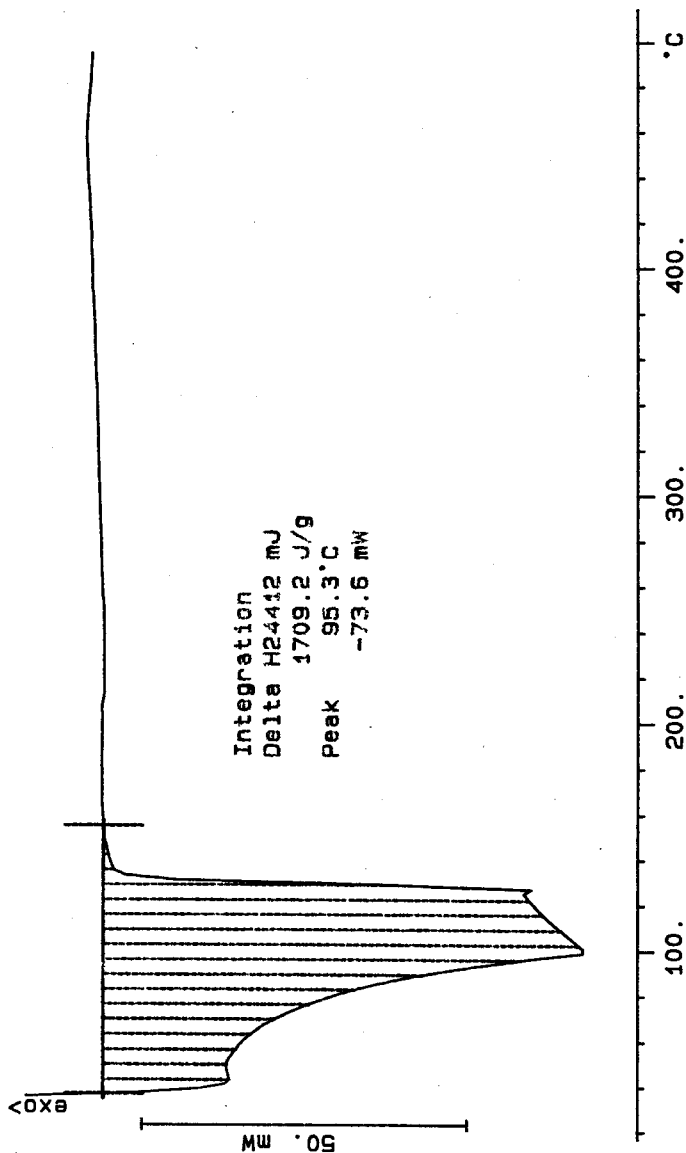
04-Jun-96

222-S Laboratory





S96T002762 DUP N2
14.283 mg
Rate: 10.0 °C/min
File: 00026.001
Ident: 0.0
DSC METTLER
222-S Laboratory
05-Jun-96



LABCORE Data Entry Template for Worklist#

9541

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

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

Worklist Comment: U-102 DSC, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>32.0</u>	<u>N/A</u>	Joules/g
96000569	U-102	2 SAMPLE	S96T002632	0	DSC-01	SOLID	<u>N/A</u>	<u>48.5</u>		Joules/g
96000569	U-102	3 DUP	S96T002632	0	DSC-01	SOLID	<u>48.5</u>	<u>41.9</u>	<u>N/A</u>	Joules/g
96000569	U-102	4 SAMPLE	S96T002633	0	DSC-01	SOLID	<u>N/A</u>	<u>69.2</u>		Joules/g
96000569	U-102	5 DUP	S96T002633	0	DSC-01	SOLID	<u>69.2</u>	<u>68.1</u>	<u>N/A</u>	Joules/g

Final page for worklist # 9541

Daniel C. Dunham 6-5-96
Analyst Signature **Date**

[Signature] 6-11-96
Analyst Signature **Date**

Verified/Validated by
Blandina Valenzuela 6-12-96

Data Entry Comments: S96T002633 results 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 123 TO 127

DSC STD 12N14-B N2 Rate: 10.0 °C/min File: 00030.001 DSC METTLER 05-Jun-96
12.080 mg Ident: 0.0 222-S Laboratory

exo

20. mW

Integration
Delta H 386 mJ
32.0 J/g
Peak 159.7°C
-22.5 mW

David Dunham 6-5-96

120. 140. 160. 180. °C

S96T002532 SAM N2

29.885 mg

Rate: 10.0 °C/min

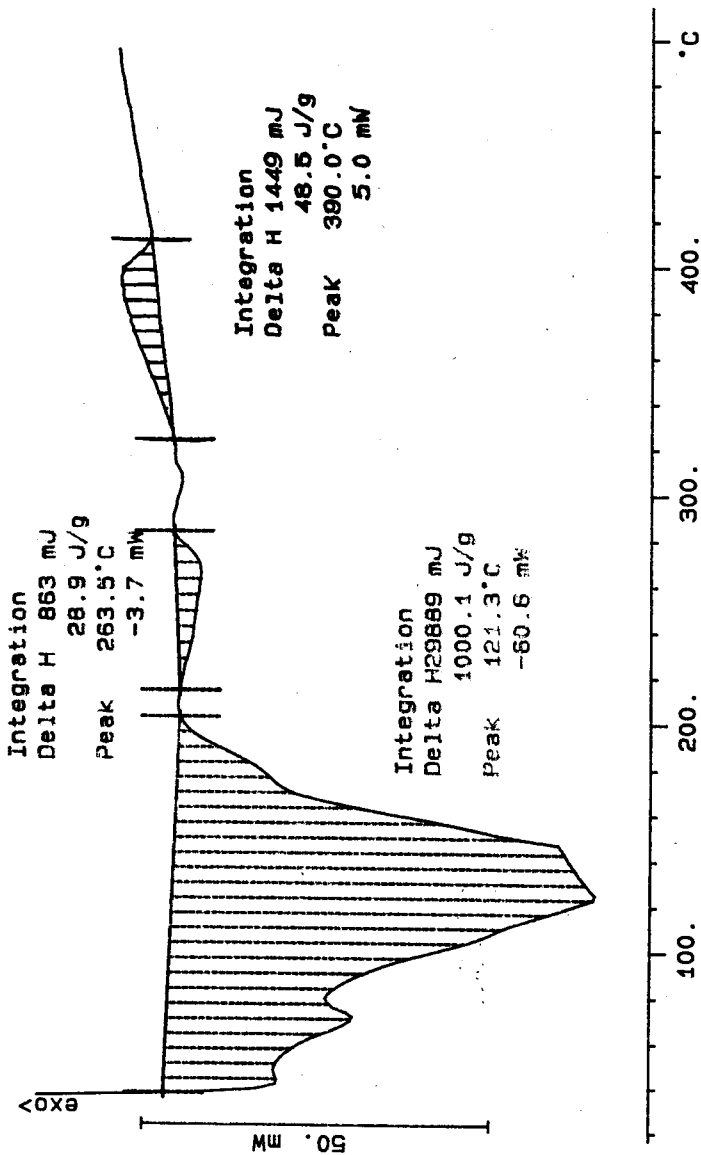
File: 00034.001

05-Jun-96

Ident: 0.0

DSC METTLER

222-S Laboratory



S96T002632 DUP N2

19.974 mg

Rate: 10.0 °C/min

File: 00036.001

Ident: 0.0

DSC METTLER 05-Jun-96

222-S Laboratory

exo

Integration

Delta H 447 mJ

22.4 J/g

Peak 233.7°C

-2.2 mW

Integration

Delta H 836 mJ

41.9 J/g

Peak 393.9°C

2.6 mW

Integration

Delta H30055 mJ

1505.2 J/g

Peak 109.3°C

-65.9 mW

100.

200.

300.

400.

°C

50. mW

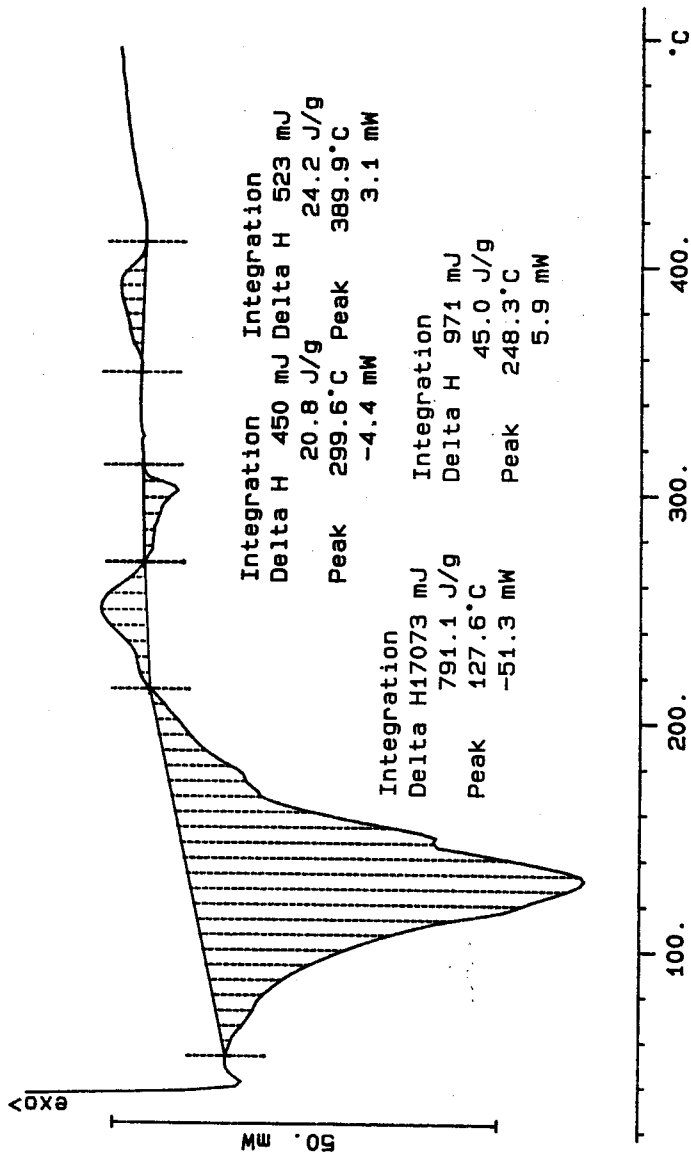
S96T002633 SAM N2

21.583 mg

Rate: 10.0 °C/min

File: 00038.001 DSC METTLER 05-Jun-96

Ident: 0.0 222-S Laboratory



S96T002633 DUP N2

34.890 mg

Rate: 10.0 °C/min

File: 00040.001 DSC METTLER 06-Jun-96

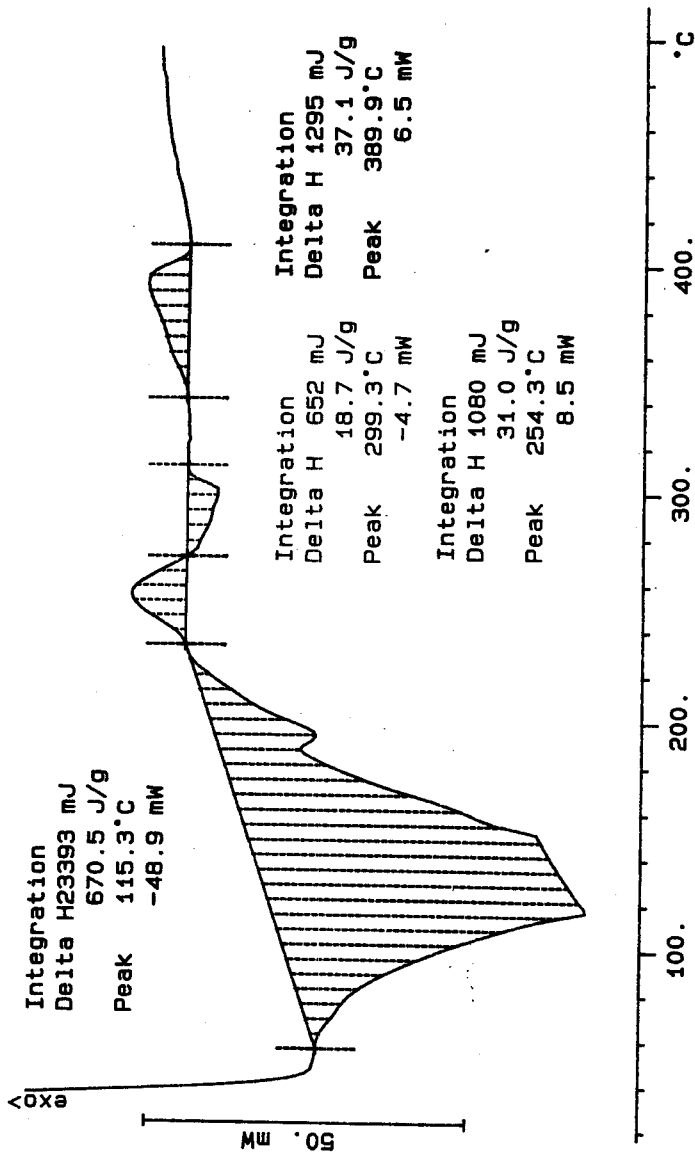
Ident: 0.0 222-S Laboratory

Integration
Delta H 23393 mJ
670.5 J/g
Peak 115.3°C
-48.9 mW

Integration
Delta H 1295 mJ
37.1 J/g
Peak 389.9°C
6.5 mW

Integration
Delta H 652 mJ
18.7 J/g
Peak 299.3°C
-4.7 mW

Integration
Delta H 1080 mJ
31.0 J/g
Peak 254.3°C
8.5 mW



LABCORE Data Entry Template for Worklist#

9543

Analyst: DCD Instrument: DSC0 3 Book # 12N14B

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

Worklist Comment: U-102 DSC, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-03	SOLID	<u>28.45</u>	<u>26.45*</u>	<u>N/A</u>	Joules/g
96000569	U-102	2 SAMPLE	S96T002636	0	DSC-03	SOLID	<u>N/A</u>	<u>18.2</u>		Joules/g
96000569	U-102	3 DUP	S96T002636	0	DSC-03	SOLID	<u>18.2</u>	<u>22.2</u>	<u>N/A</u>	Joules/g
96000569	U-102	4 SAMPLE	S96T002646	0	DSC-03	SOLID	<u>N/A</u>	<u>39.4</u>		Joules/g
96000569	U-102	5 DUP	S96T002646	0	DSC-03	SOLID	<u>39.4</u>	<u>1.62</u>	<u>N/A</u>	Joules/g

Final page for worklist #

9543

See attached for signatures
Analyst Signature Date 6/11/96

L. Jones 6-12-96
Analyst Signature Date

Verified/Validated by BDV
Blandina Valenzuela 6/13/96

Data Entry Comments: S96T002646 did not have a triplicate because it was
not close to the notification limit.

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#

9543

Analyst: DcD Instrument: DSC0 Book # 12N14B

Method: LA-514-113 Rev/Mod _____

Worklist Comment: U-102 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
96000569	U-102	2 SAMPLE	S96T002636	0	DSC-01	SOLID	N/A			Joules/g
96000569	U-102	3 DUP	S96T002636	0	DSC-01	SOLID			N/A	Joules/g
96000569	U-102	4 SAMPLE	S96T002646	0	DSC-01	SOLID	N/A			Joules/g
96000569	U-102	5 DUP	S96T002646	0	DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 9543

Dina C. Duran 6-6-96
Analyst Signature Date

Analyst Signature Date

DSC-03 instrument
was used.

6/11/96

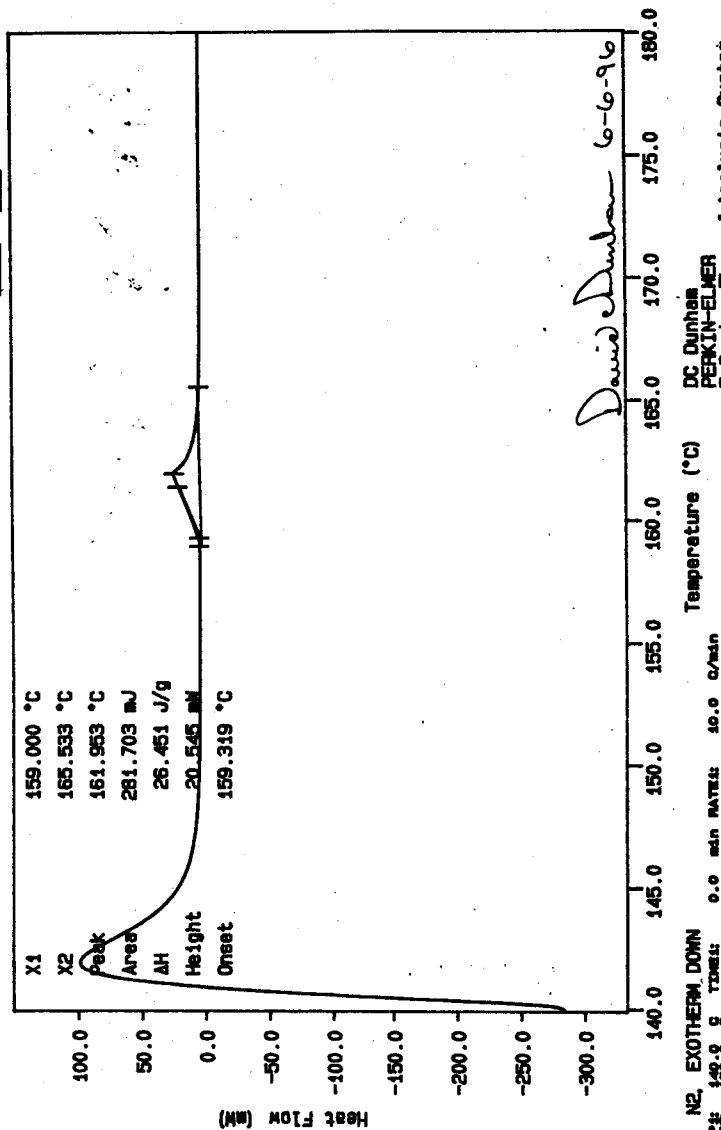
BO Valenzuela

Data Entry Comments:

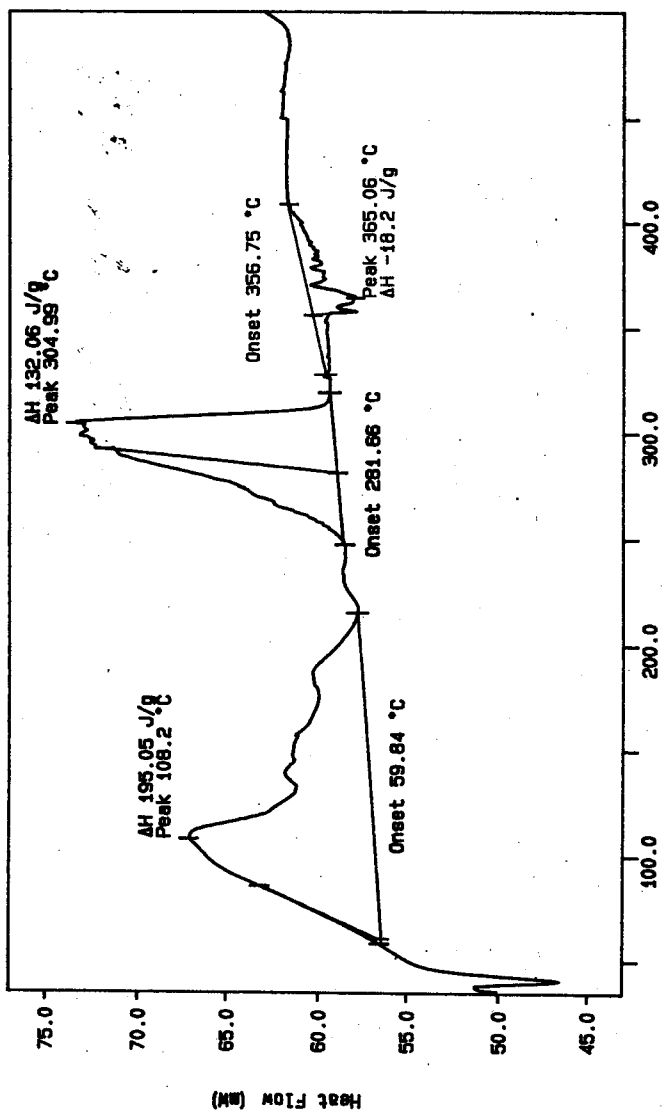
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
 File info: IND060601 Thu Jun 6 20:22:38 1996
 Sample Weight: 10.650 mg
 12N14-B INDIUM AT 10C/MIN

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 130 TO 134

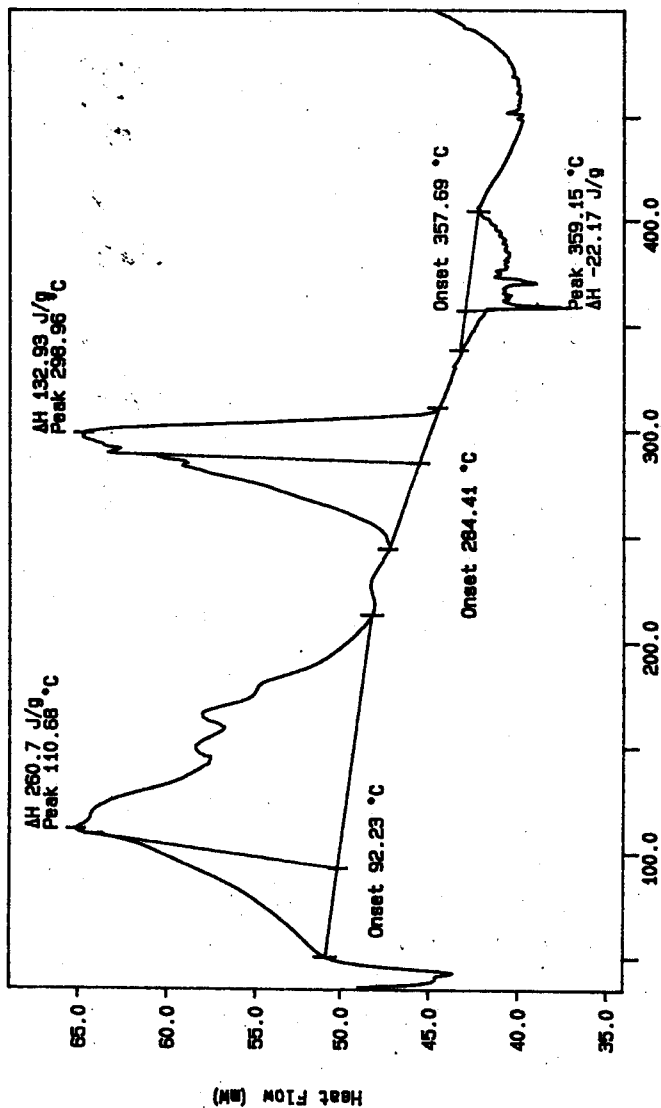


Curve 1: DSC
 File Info: SAM060603 Thu Jun 6 18:49:35 1996
 Sample Weight: 20.570 mg
 S96T0022636 SAM



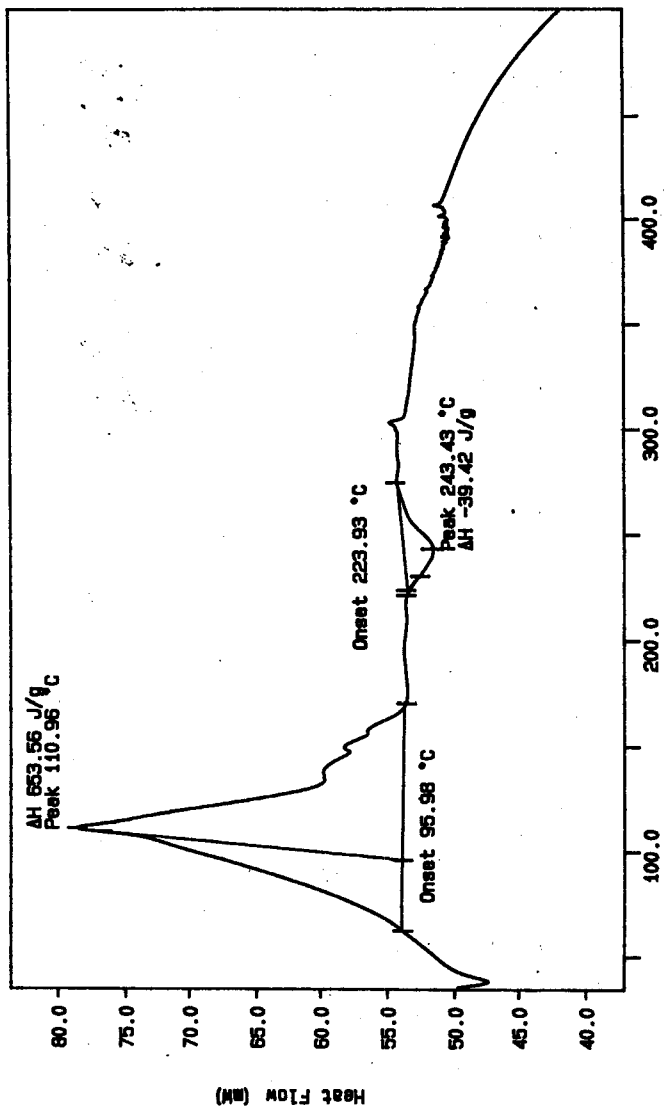
exotherm down, N2 purge gas
 RATE 5.0 °C/min
 TIME 8.0 min
 DC Dunham
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Jun 6 21:32:32 1996

Curve 1: DSC
 File Info: SAM050604 Thu Jun 6 23:02:14 1996
 Sample Weight: 25.530 mg
 S96T002636 DUP



exotherm down, N2 purge gas
 50.0 c/min
 8 TIMES
 DC Dunham
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Fri Jun 7 00:48:01 1996

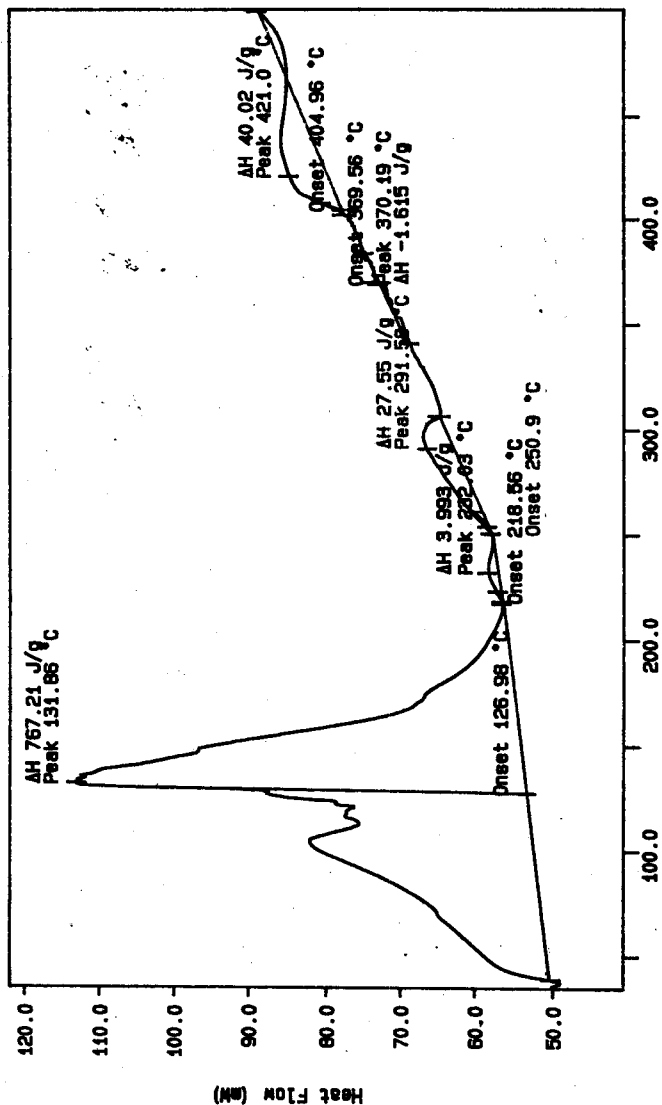
Curve 1: DSC
 File info: SAM060605 Fri Jun 7 01:21:26 1996
 Sample Weight: 8.520 mg
 S96T002646 SAM



DC Dunham
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Fri Jun 7 01:43:05 1996

exotherms down, N2 purge gas
 RATE 20.0 °C/min
 TIME 0.0 min

Curve 1: DSC
 File Info: SAM060606 Fr-1 Jun 7 03:51:17 1996
 Sample Weight: 27.240 mg
 S96T002646 DUP



DC Dunham
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Fr-1 Jun 7 06:20:39 1996

exotherm down, N2 purge gas
 THERM 0.0 min RATE: 10.0 °C/min

LABCORE Data Entry Template for Worklist#

9544

Analyst: Dcd Instrument: DSC0 1 Book # 12N148

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

Worklist Comment: U-102 DSC, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>31.9*</u>	<u>N/A</u>	Joules/g
96000569	U-102	2 SAMPLE	S96T002647	0	DSC-01	SOLID	<u>N/A</u>	<u>18.3</u>		Joules/g
96000569	U-102	3 DUP	S96T002647	0	DSC-01	SOLID	<u>18.3</u>	<u>29.6</u>	<u>N/A</u>	Joules/g
96000569	U-102	4 SAMPLE	S96T002775	0	DSC-01	SOLID	<u>N/A</u>	<u>35.1</u>		Joules/g
96000569	U-102	5 DUP	S96T002775	0	DSC-01	SOLID	<u>35.1</u>	<u>36.0</u>	<u>N/A</u>	Joules/g

Final page for worklist # 9544

Daniel C. Dunham 6-6-96
Analyst Signature Date

R. H. H. H. 6-11-96
Analyst Signature Date

Verified/Validated by
Blandina Valenzuela
6-12-96

S96T002647 produced an endotherm at approximately 295.6°C
this peak is probably indicative of aluminum Hydroxide decomposition
reaction.

Data Entry Comments:

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 136 TO 140.

DSC STD 12N14-B N2

12.080 mg

Rate: 10.0 °C/min

File: 00030.001

Ident: 0.0

DSC METTLER

05-Jun-96

222-S Laboratory

exo >

20. mW

Integration
Delta H 385 mJ
31.9 J/g
Peak 159.7 °C
-22.5 mW

Daniel Durham 6-6-96

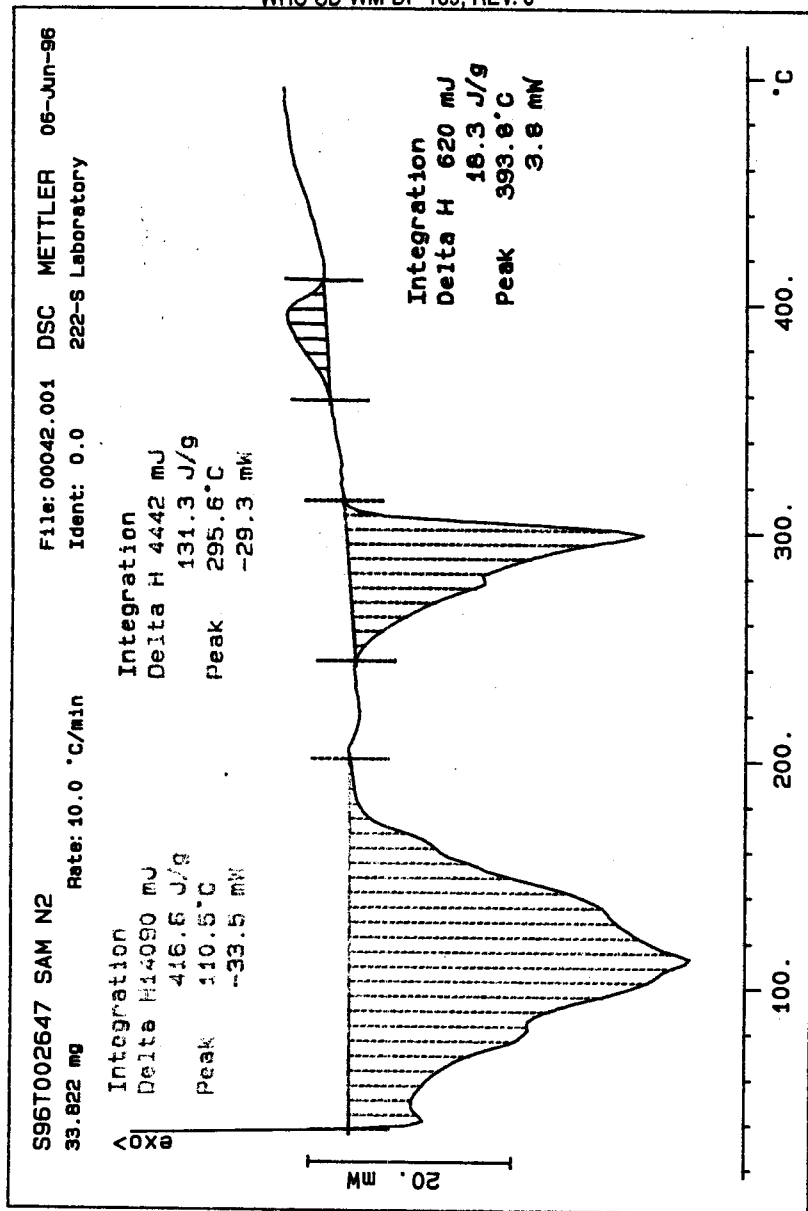
120.

140.

160.

180.

°C



S96T002647 DUP N2

30.439 mg

Rate: 10.0 °C/min

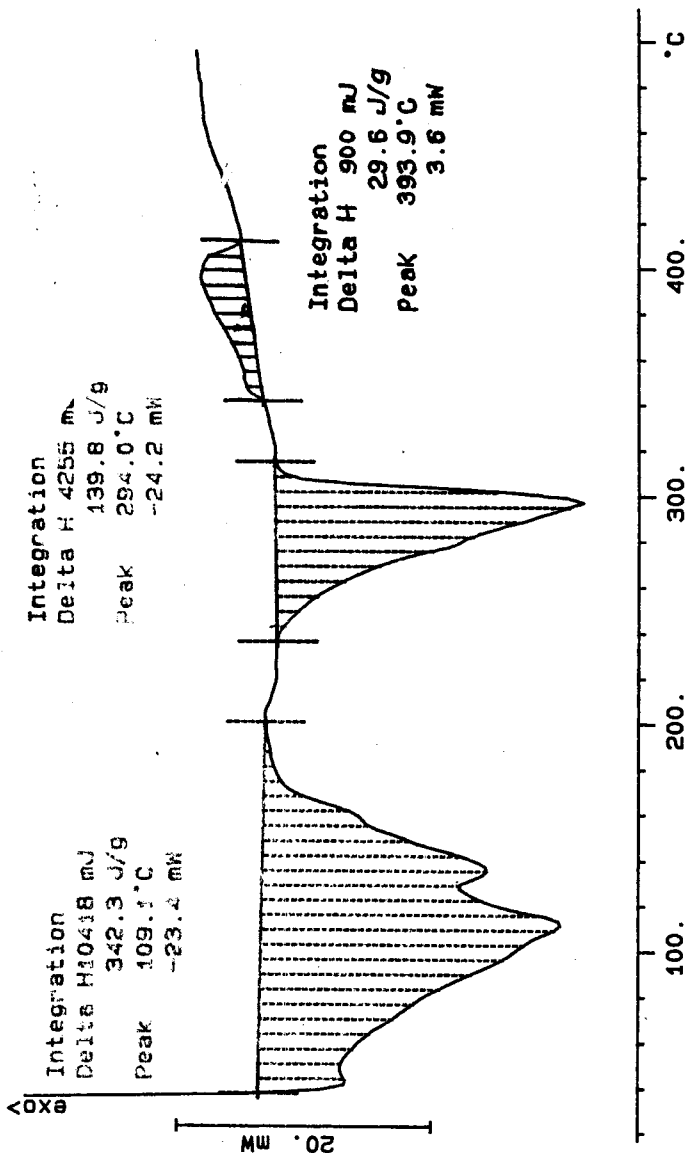
File: 00044.001

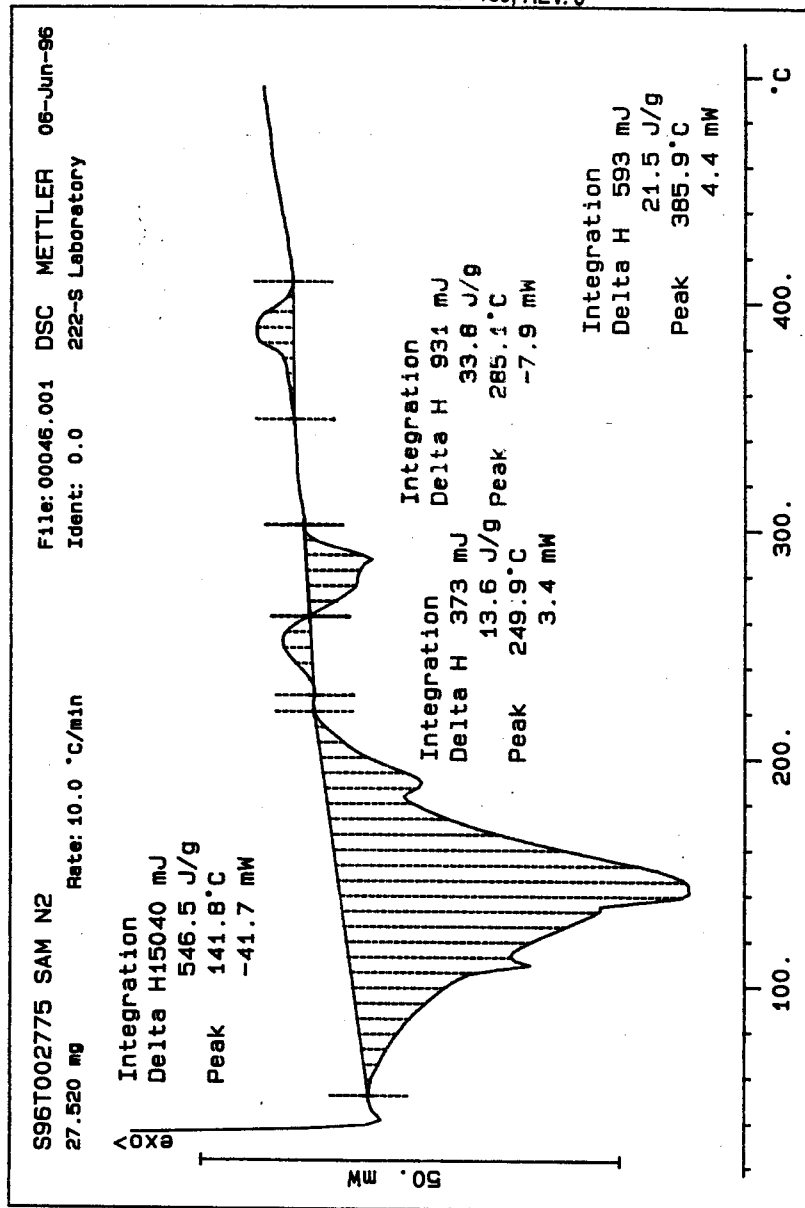
Ident: 0.0

DSC METTLER

06-Jun-96

222-S Laboratory





S96T002775 DUP N2

34.511 mg

Rate: 10.0 °C/min

File: 00048.001 DSC METTLER 06-Jun-96

Ident: 0.0 222-S Laboratory

Integration
Delta H 19213 mJ
556.7 J/g
Peak 141.3°C
-48.6 mW

Integration
Delta H 559 mJ
19.4 J/g
Peak 250.0°C
5.9 mW

Integration
Delta H 893 mJ
25.9 J/g
Peak 281.2°C
-7.3 mW

Integration
Delta H 573 mJ
16.6 J/g
Peak 379.8°C
3.5 mW

Exo

50. mW

100.

200.

300.

400.

°C

LABCORE Data Entry Template for Worklist#

9545

Analyst: DGD Instrument: DSC0 1 Book # 12N/4B

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

Worklist Comment: U-102 DSC, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>32.7</u>	<u>N/A</u>	Joules/g
96000569	U-102	2 SAMPLE	S96T002776	0	DSC-01	SOLID	<u>N/A</u>	<u>29.8</u>		Joules/g
96000569	U-102	3 DUP	S96T002776	0	DSC-01	SOLID	<u>29.8</u>	<u>44.7</u>	<u>N/A</u>	Joules/g
96000569	U-102	4 SAMPLE	S96T002777	0	DSC-01	SOLID	<u>N/A</u>	<u>87.6</u>		Joules/g
96000569	U-102	5 DUP	S96T002777	0	DSC-01	SOLID	<u>87.6</u>	<u>99.0</u>	<u>N/A</u>	Joules/g

Final page for worklist #

9545

DGD 6-6-96
Analyst Signature Date

RJ 6-17-96
Analyst Signature Date

Validated by: H. Anas 6-19-96

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.

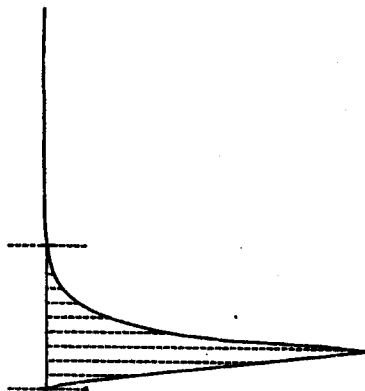
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 142 TO 146

DSC STD 12N14B Rate: 10.0 °C/min File: 00050.001 DSC METTLER 06-Jun-96
12.080 mg Ident: 0.0 222-S Laboratory

exo

20. mW

Integration
Delta H 395 mJ
32.7 J/g
Peak 158.8 °C
-24.3 mW



160. Div 2 Del 6-6-96 °C

120.

140.

S96T002776 SAM N2

15.126 mg

Rate: 10.0 °C/min

File: 00082.001 DSC METTLER 06-Jun-96

Ident: 0.0 222-s Laboratory

Integration
Delta H 668 mJ
44.2 J/g
Peak 267.5°C
-4.1 mW

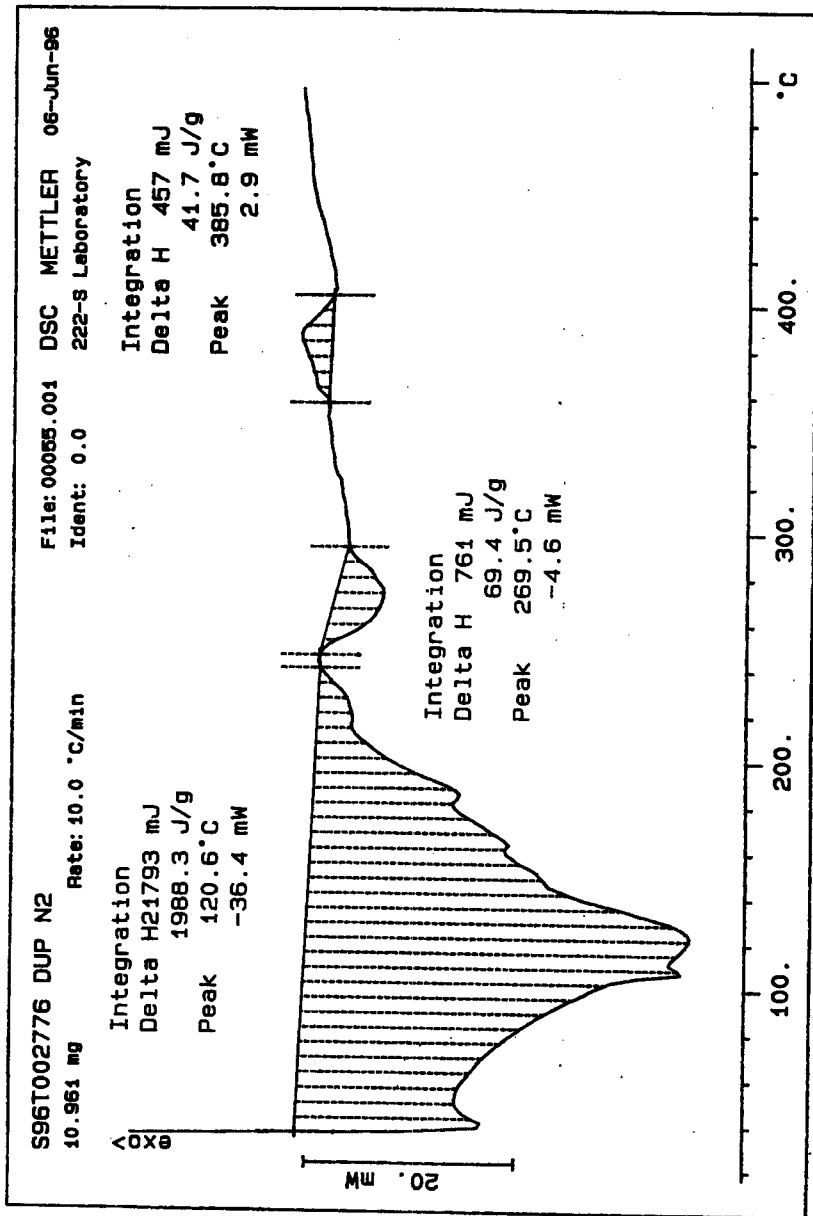
Integration
Delta H 451 mJ
29.8 J/g
Peak 387.8°C
2.8 mW

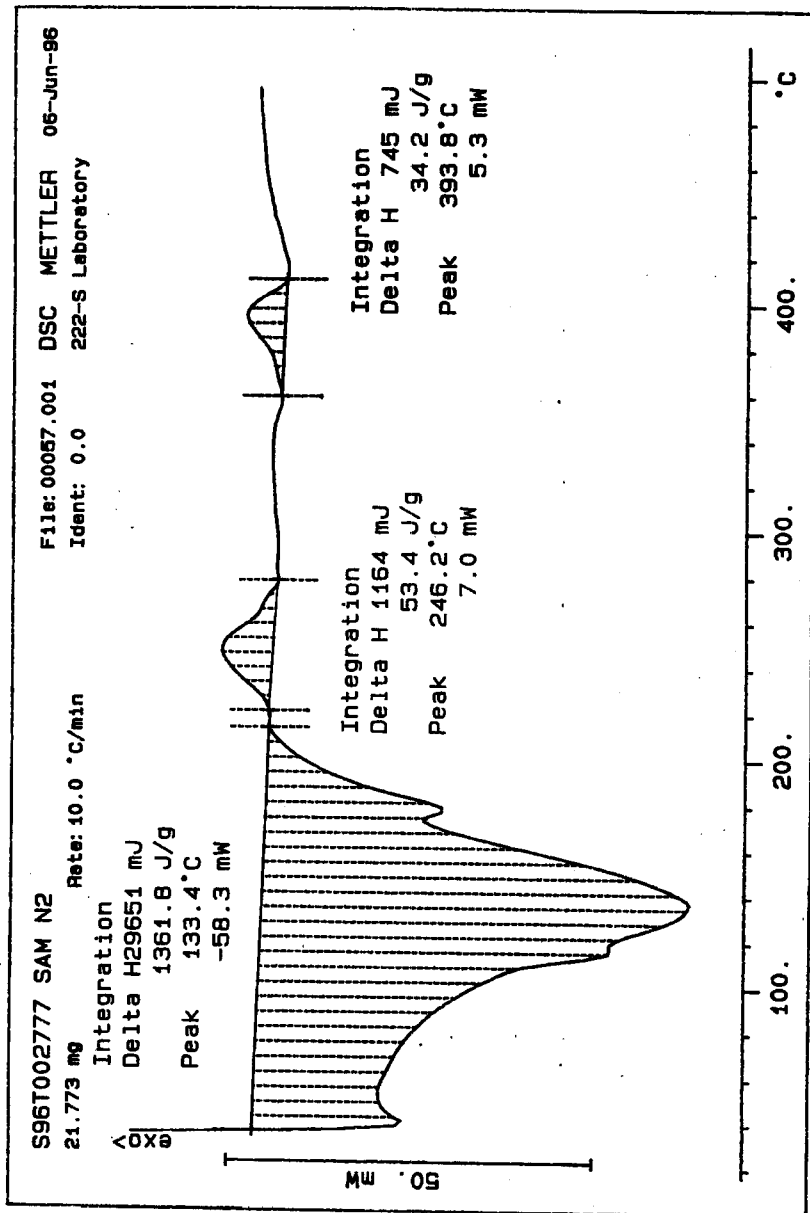
Integration
Delta H23055 mJ
1524.2 J/g
Peak 104.6°C
-40.1 mW

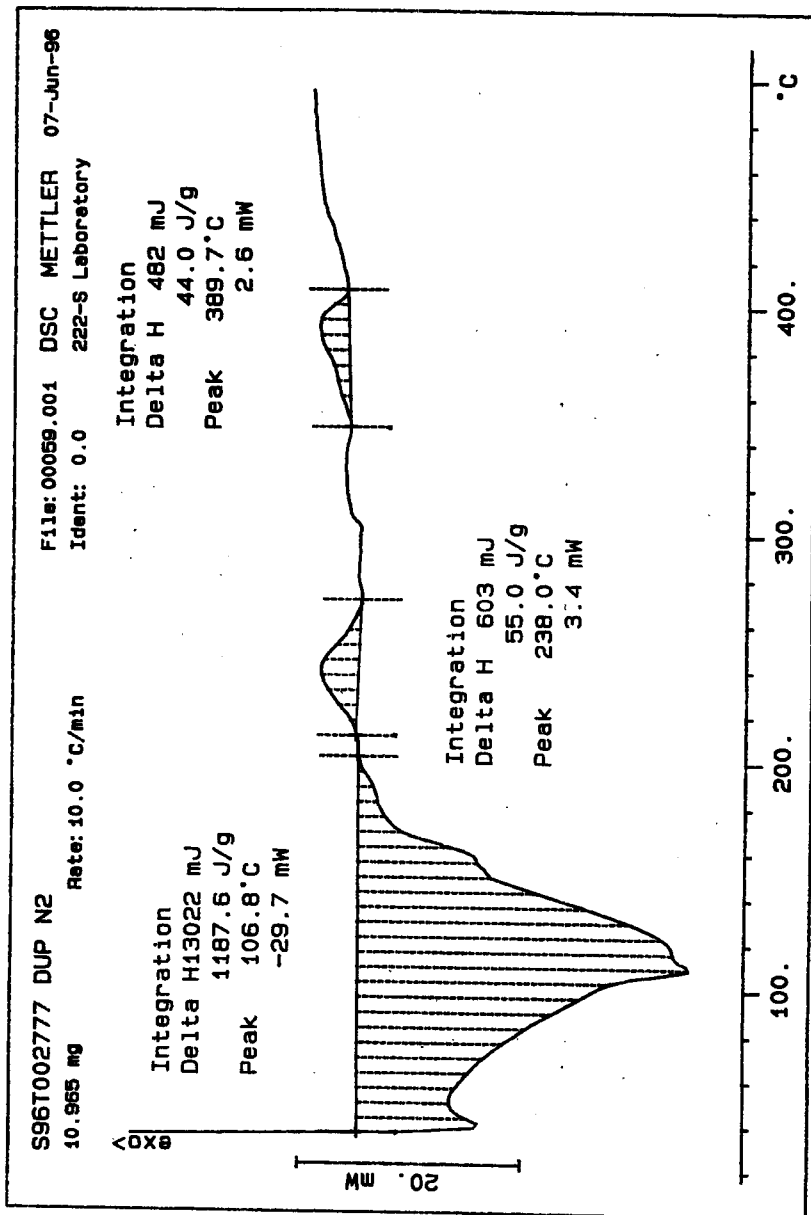
exo

20. mW

100. 200. 300. 400. °C







LABCORE Data Entry Template for Worklist#

9547

Analyst: R/K Instrument: DSC0 1 Book # 12114-B

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

Worklist Comment: U-102 DSC, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>32.2*</u>	<u>N/A</u>	Joules/g
96000569	U-102	2 SAMPLE	S96T002778	0	DSC-01	SOLID	<u>N/A</u>	<u>139</u>		Joules/g
96000569	U-102	3 DUP	S96T002778	0	DSC-01	SOLID	<u>139</u>	<u>59.5</u>	<u>N/A</u>	Joules/g
96000569	U-102	4 SAMPLE	S96T002779	0	DSC-01	SOLID	<u>N/A</u>	<u>63.2</u>		Joules/g
96000569	U-102	5 DUP	S96T002779	0	DSC-01	SOLID	<u>63.2</u>	<u>76.6</u>	<u>N/A</u>	Joules/g

Final page for worklist # 9547

Rob Kemp 6/8/96
Analyst Signature Date

R. Jones 6-12-96
Analyst Signature Date

Verified/Validated by
Blandina Valenzuela 6/13/96

S96T002778 results are the sum of two exotherms. A triplicate wasn't run because results were not close to the notification limit.

Data Entry Comments: S96T002779 results are the sum of two exotherms.

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 148 TO 152.

DSC STD 12N14B N2

12.080 mg

Rate: 10.0 °C/min

File: 00061.001 DSC METTLER 07-Jun-98

Ident: 0.0 222-S Laboratory

exo y

Integration

Delta H 389 mJ

32.2 J/g

Peak 159.0 °C

-23.3 mW

20. mW

120. 140. 160. 180. °C

Not-Nong 6/8/98

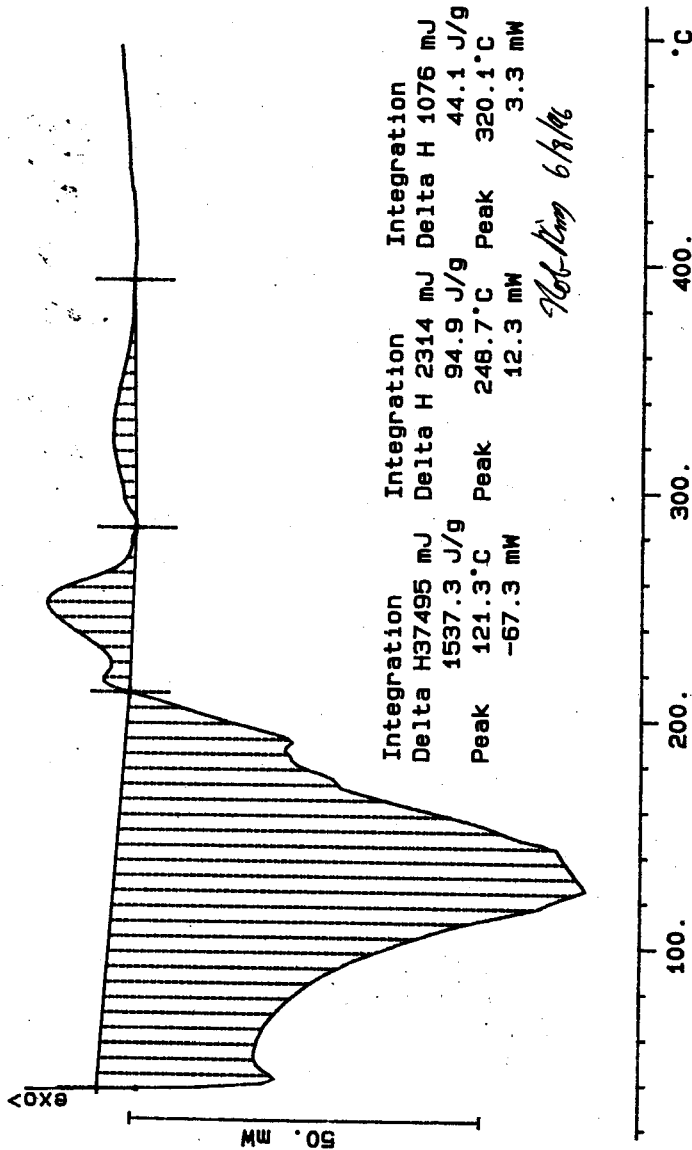
S96T002778 SAM N2

24.390 mg

Rate: 10.0 °C/min

File: 00074.001 DSC METTLER 07-Jun-96

Ident: 0.0 222-S Laboratory



S96T002778 DUP N2

16.350 mg

Rate: 10.0 °C/min

File: 00076.001

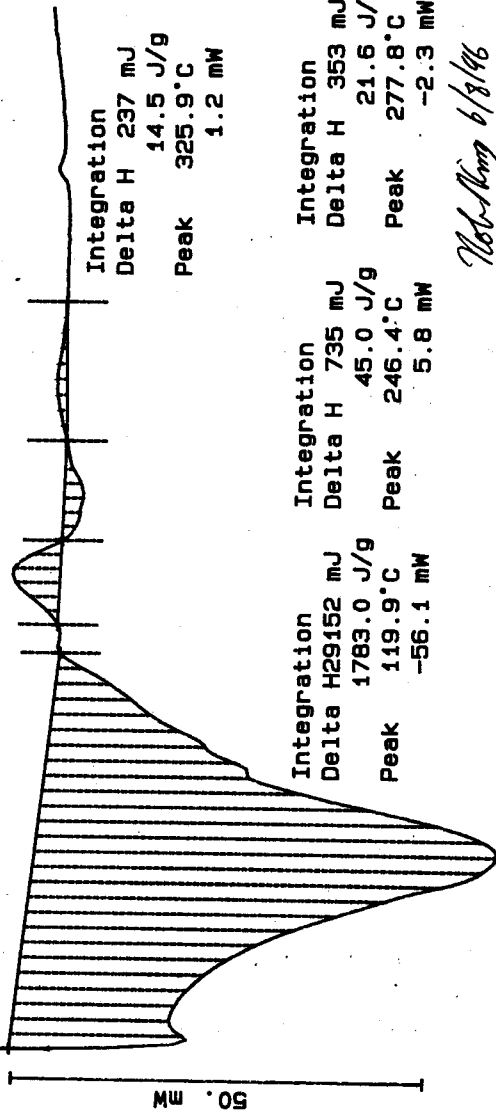
DSC METTLER

08-Jun-96

Ident: 0.0

222-S Laboratory

exo



Noting 6/8/96

S96T002779 SAM N2

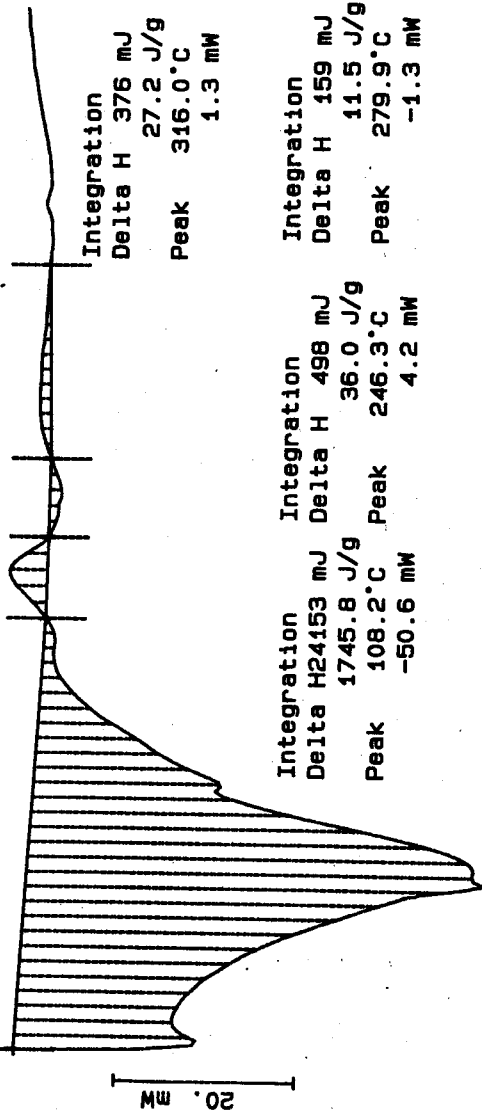
13.835 mg

Rate: 10.0 °C/min

File: 00078.001 DSC METTLER 08-Jun-96

Ident: 0.0 222-S Laboratory

exo >



°C

400.

300.

200.

100.

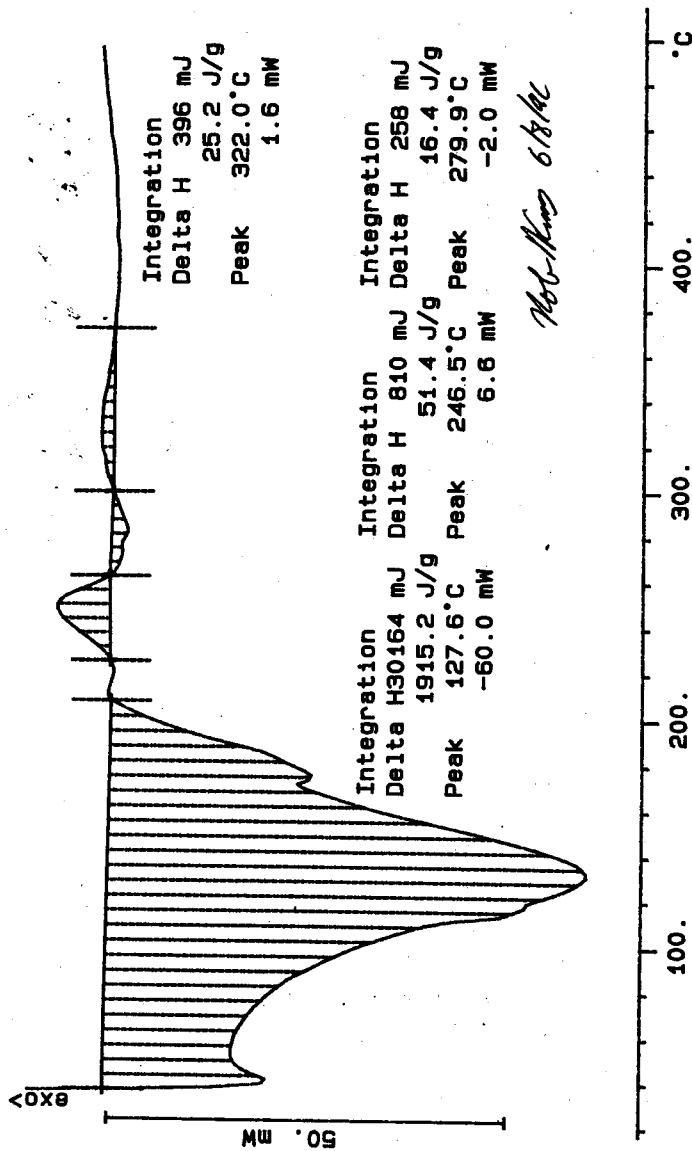
S96T002779 DUP N2

15.750 mg

Rate: 10.0 °C/min

File: 00080.001 DSC METTLER 08-Jun-96

Ident: 0.0 222-8 Laboratory



LABCORE Data Entry Template for Worklist#

9548

Analyst: Ded Instrument: DSC0 1 Book # 12N14B

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

Worklist Comment: U-102 DSC, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>31.5</u>	<u>N/A</u>	Joules/g
96000569	U-102	2 SAMPLE	S96T002780	0	DSC-01	SOLID	<u>N/A</u>	<u>14.4</u>		Joules/g
96000569	U-102	3 DUP	S96T002780	0	DSC-01	SOLID	<u>14.4</u>	<u>19.8</u>	<u>N/A</u>	Joules/g

Final page for worklist # 9548

Danice Dunham 6-11-96
Analyst Signature Date

R. D. D. 6-13-96
Analyst Signature Date

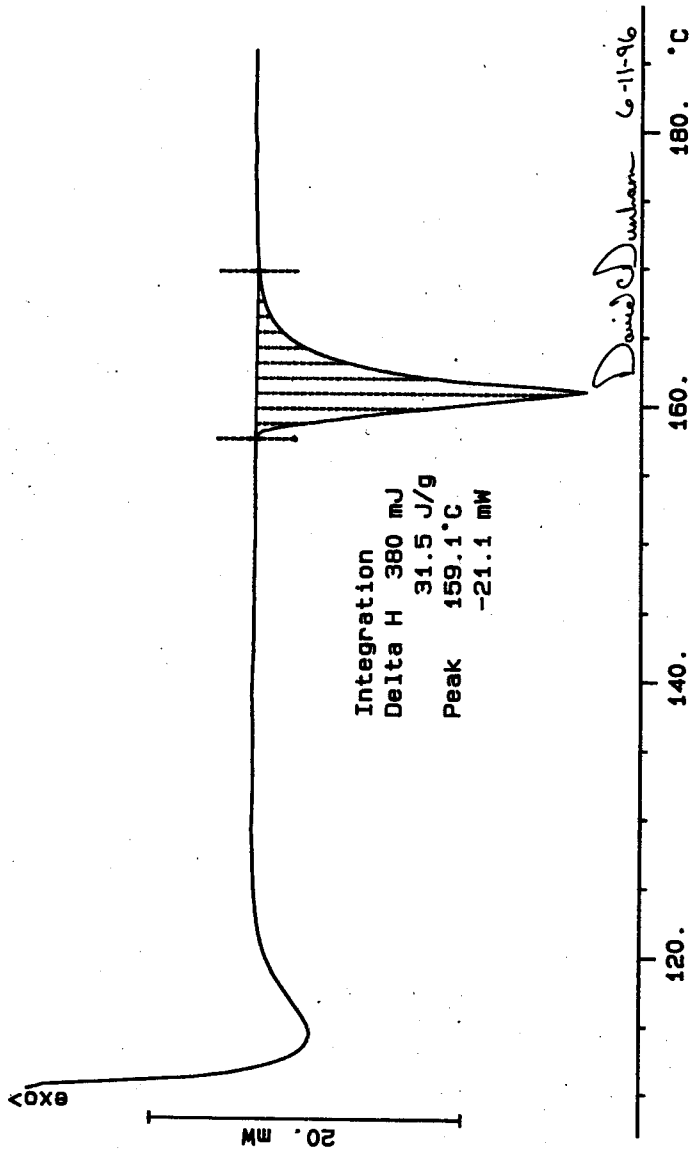
Verified/Validated by
Blandina Valenzuela
6/14/96

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 154 TO 156

DSC STD 12N14B Rate: 10.0 °C/min File: 00021.001 DSC METTLER 11-Jun-96
12.080 mg Ident: 0.0 222-S Laboratory



S96T002780 SAM N2
12.281 mg Rate: 10.0 °C/min File: 00023.001 DSC METTLER 11-Jun-86
Ident: 0.0 222-8 Laboratory

Integration

Delta H 14641 mJ
1191.2 J/g

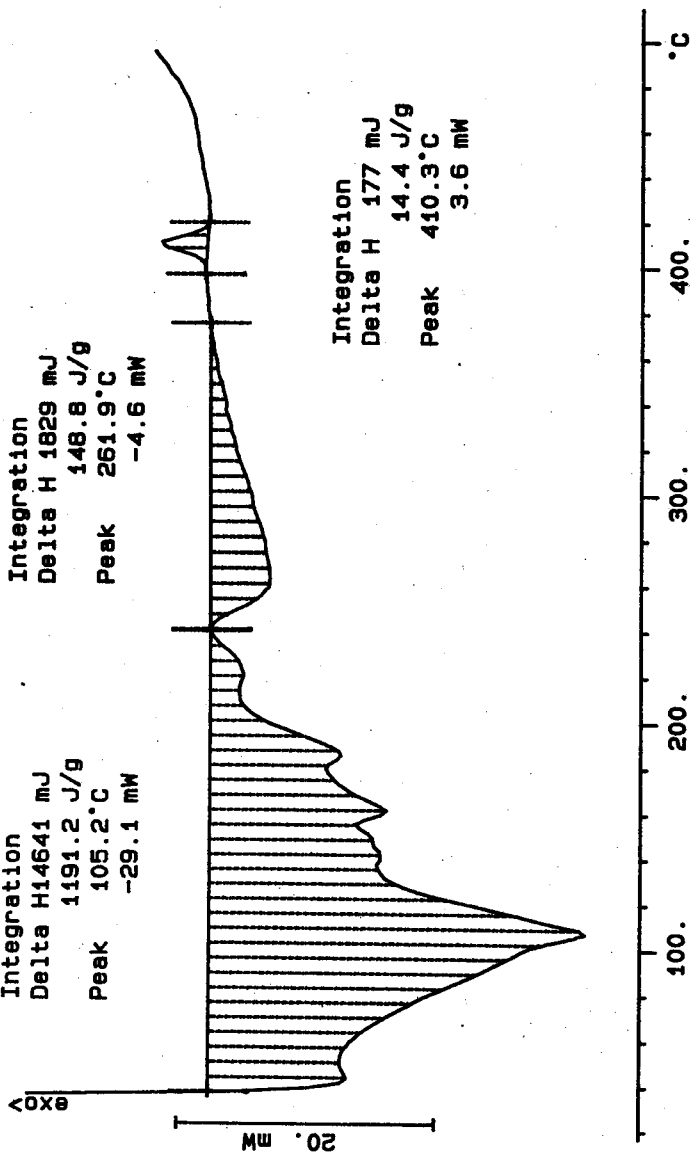
Peak 105.2°C
-29.1 mW

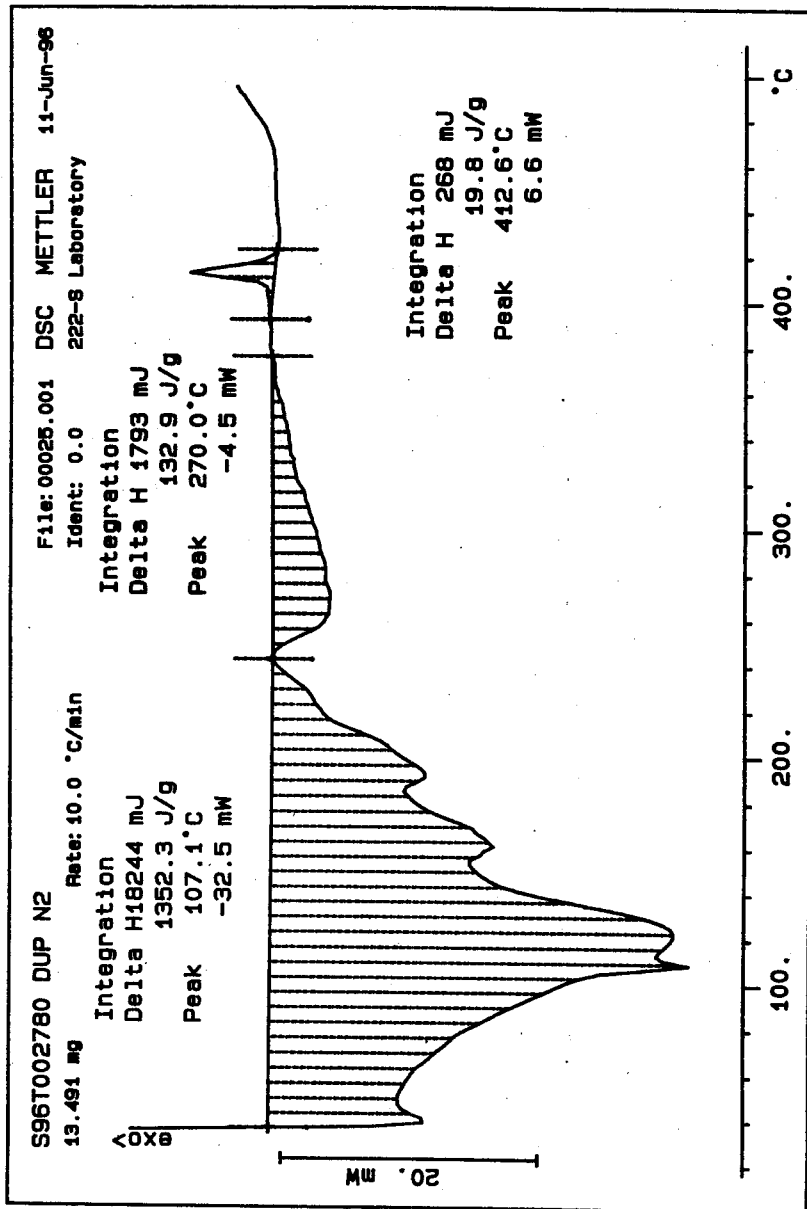
Integration

Delta H 1829 mJ
148.8 J/g

Peak 261.9°C
-4.6 mW

Integration
Delta H 177 mJ
14.4 J/g
Peak 410.3°C
3.6 mW





LABCORE Data Entry Template for Worklist#

10073

Analyst: EAL Instrument: DSC0 3 Book # 12N14B

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

Worklist Comment: DSC U-102 Reruns Run under N2. RUSH

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-03	SOLID	<u>28.45</u>	<u>27.01*</u>	<u>N/A</u>	Joules/g
96000536	U-102	2 SAMPLE	S96T002665	1	DSC-03	SOLID	<u>N/A</u>	<u>164.3</u>		Joules/g
96000536	U-102	3 DUP	S96T002665	1	DSC-03	SOLID	<u>164.3</u>	<u>141.5</u>	<u>N/A</u>	Joules/g

Final page for worklist # 10073

See attached for signatures
Analyst Signature

Date

6-20-96

P. P. H.
Analyst Signature

Date

6-21-96

Verified/Validated by

Blandina Valenzuela
6-27-96

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.

LABCORE Data Entry Template for Worklist#

10073

Analyst: EAC Instrument: DSC0 Book # 12N14-B

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

Worklist Comment: DSC U-102 Reruns Run under N2. RUSH

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID			N/A	Joules/g
96000536	U-102	2 SAMPLE	S96T002665	1	DSC-01	SOLID	N/A			Joules/g
96000536	U-102	3 DUP	S96T002665	1	DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 10073

A. Lambel
Analyst Signature Date 06.19.96

Analyst Signature Date

DSC-03 instrument
was used.

6-20-96

Blandina
Valenzuela

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.

Lambel 06-19-96

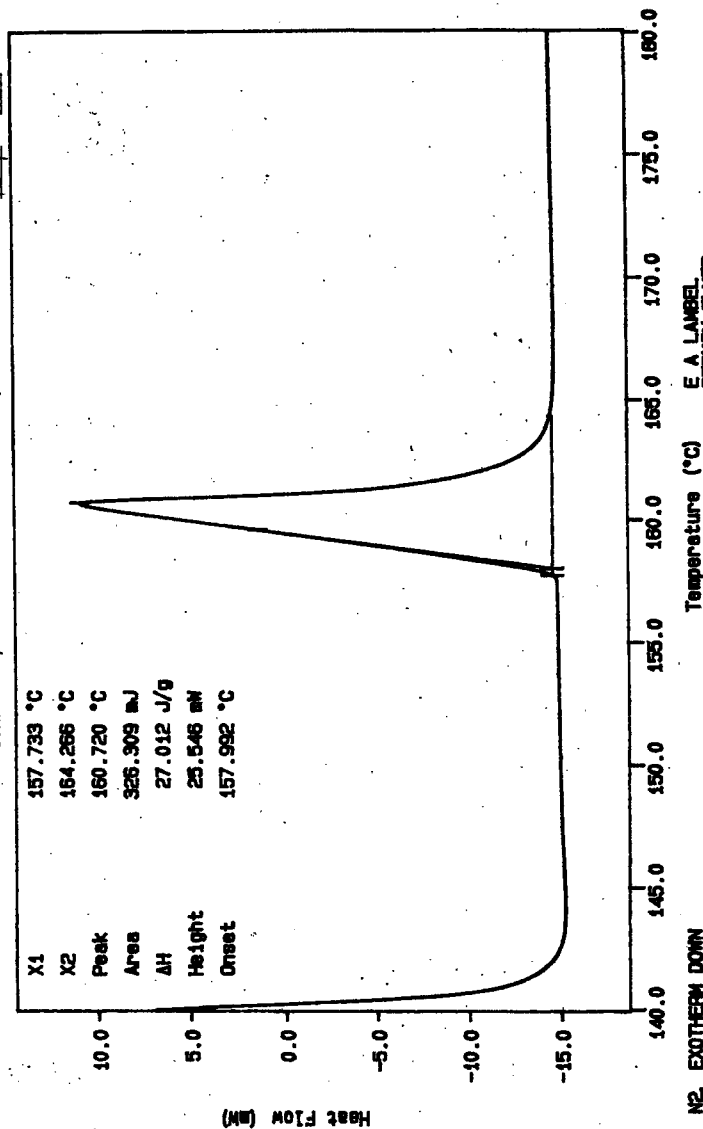
Curve 1: DSC

File Info: S40061901 Wed Jun 19 05:52:55 1996

Sample Weight: 12.080 mg

12N14-B INDIUM AT 10C/MIN

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 159 TO 161.



N2, EXOTHERM DOWN

12.08 g

100.0 g

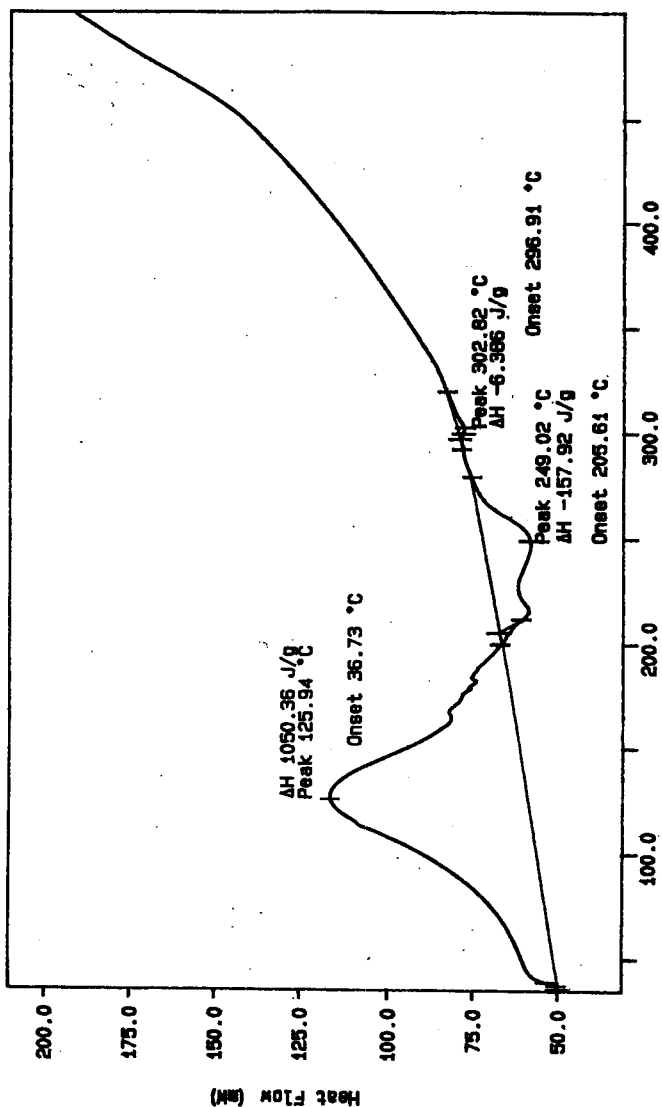
10.0 °C/min

Temperature (°C)

E. A. LAMBEL
PERKIN-ELMER

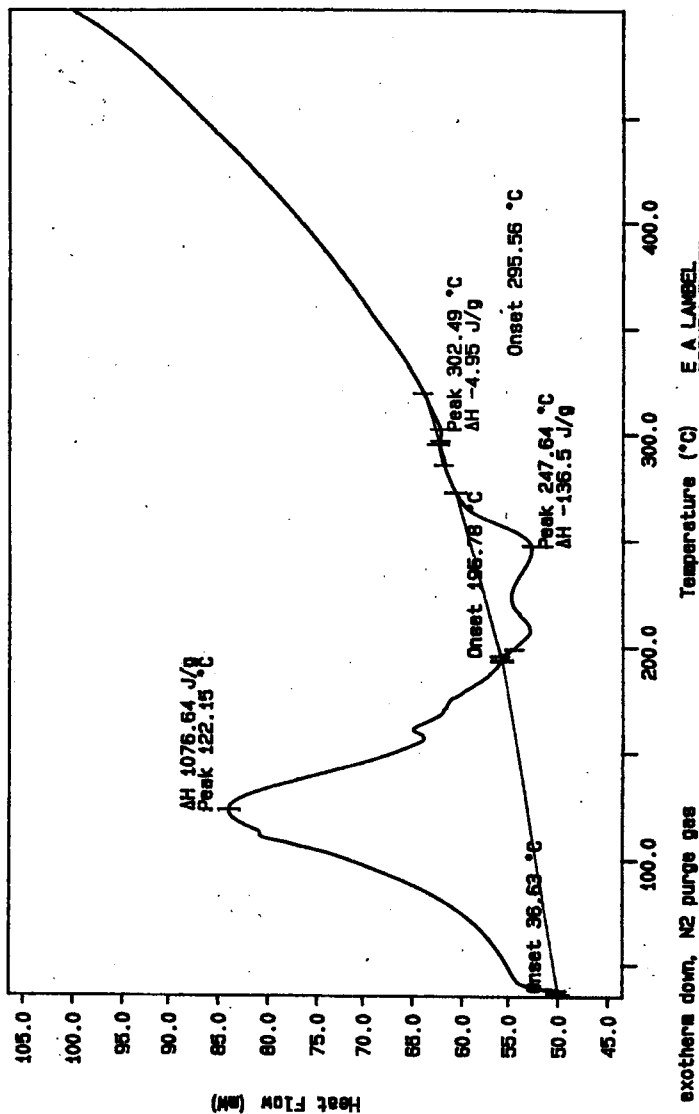
7 Series Thermal Analysis System
Wed Jun 19 05:52:54 1996

Curve 1: DSC
 File Info: SAN061905 Wed Jun 19 12:00:33 1996
 Sample Weight: 23.120 mg
 S96T002665



exotherm down, N2 purge gas
 RATE 5.0 °C/min
 TIME 55.8 g
 E A LAMBEL
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Jun 20 02:22:19 1996

Curve 1: DSC
 File Info: SAK061906 Wed Jun 19 13:52:46 1996
 Sample Weight: 11.450 mg
 S95T002665 DUP



E A LANGE
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Jun 20 09:31:59 1996

exotherm down, N2 purge gas
 THERM 8.0 °C/min RATE 10.0 °C/min

LABCORE Data Entry Template for Worklist#

10099

Analyst: Hka **Instrument:** DSC01 **Book #** N/A

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

Worklist Comment: U-102 Dry DSCs.

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
96000569	U-102	1 SAMPLE	S96T002776	0	DSC-02	SOLID	<u>N/A</u>	<u>42.57</u>		Joules/g Dry
96000569	U-102	2 DUP	S96T002776	0	DSC-02	SOLID	<u>42.57</u>	<u>59.57</u>	<u>N/A</u>	Joules/g Dry
96000569	U-102	3 SAMPLE	S96T002777	0	DSC-02	SOLID	<u>N/A</u>	<u>134.4</u>		Joules/g Dry
96000569	U-102	4 DUP	S96T002777	0	DSC-02	SOLID	<u>134.4</u>	<u>151.8</u>	<u>N/A</u>	Joules/g Dry
96000569	U-102	5 SAMPLE	S96T002778	0	DSC-02	SOLID	<u>N/A</u>	<u>226.2</u>		Joules/g Dry
96000569	U-102	6 DUP	S96T002778	0	DSC-02	SOLID	<u>226.2</u>	<u>96.81</u>	<u>N/A</u>	Joules/g Dry
96000569	U-102	7 SAMPLE	S96T002779	0	DSC-02	SOLID	<u>N/A</u>	<u>133.8</u>		Joules/g Dry
96000569	U-102	8 DUP	S96T002779	0	DSC-02	SOLID	<u>133.8</u>	<u>162.2</u>	<u>N/A</u>	Joules/g Dry
96000569	U-102	9 SAMPLE	S96T002780	0	DSC-02	SOLID	<u>N/A</u>	<u>25.94</u>		Joules/g Dry
96000569	U-102	10 DUP	S96T002780	0	DSC-02	SOLID	<u>25.94</u>	<u>35.67</u>	<u>N/A</u>	Joules/g Dry
96000569	U-102	11 SAMPLE	S96T002647	0	DSC-02	SOLID	<u>N/A</u>	<u>20.13</u>		Joules/g Dry
96000569	U-102	12 DUP	S96T002647	0	DSC-02	SOLID	<u>20.13</u>	<u>32.55</u>	<u>N/A</u>	Joules/g Dry
96000569	U-102	13 SAMPLE	S96T002775	0	DSC-02	SOLID	<u>N/A</u>	<u>45.17</u>		Joules/g Dry
96000569	U-102	14 DUP	S96T002775	0	DSC-02	SOLID	<u>45.17</u>	<u>46.32</u>	<u>N/A</u>	Joules/g Dry

Final page for worklist #

10099

Hka 6-20-96
Analyst Signature Date

Analyst Signature Date

Validated 6-20-96 Hka

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#

10100

Analyst: Hea Instrument: DSC01 Book # N/A

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

Worklist Comment: U-102 Dry DSCs.

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
96000536	U-102	1 SAMPLE	S96T002500	0	DSC-02	SOLID	<u>N/A</u>	<u>19.79</u>		Joules/g Dry
96000536	U-102	2 DUP	S96T002500	0	DSC-02	SOLID	<u>19.79</u>	<u>18.47</u>	<u>N/A</u>	Joules/g Dry
96000536	U-102	3 SAMPLE	S96T002501	0	DSC-02	SOLID	<u>N/A</u>	<u>22.93</u>		Joules/g Dry
96000536	U-102	4 DUP	S96T002501	0	DSC-02	SOLID	<u>22.93</u>	<u>18.71</u>	<u>N/A</u>	Joules/g Dry
96000536	U-102	5 SAMPLE	S96T002666	0	DSC-02	SOLID	<u>N/A</u>	<u>175.8</u>		Joules/g Dry
96000536	U-102	6 DUP	S96T002666	0	DSC-02	SOLID	<u>175.8</u>	<u>201.8</u>	<u>N/A</u>	Joules/g Dry
96000536	U-102	7 SAMPLE	S96T002755	0	DSC-02	SOLID	<u>N/A</u>	<u>119.4</u>		Joules/g Dry
96000536	U-102	8 DUP	S96T002755	0	DSC-02	SOLID	<u>119.4</u>	<u>105.8</u>	<u>N/A</u>	Joules/g Dry
96000569	U-102	9 SAMPLE	S96T002632	0	DSC-02	SOLID	<u>N/A</u>	<u>80.15</u>		Joules/g Dry
96000569	U-102	10 DUP	S96T002632	0	DSC-02	SOLID	<u>80.15</u>	<u>69.24</u>	<u>N/A</u>	Joules/g Dry
96000569	U-102	11 SAMPLE	S96T002633	0	DSC-02	SOLID	<u>N/A</u>	<u>104.4</u>		Joules/g Dry
96000569	U-102	12 DUP	S96T002633	0	DSC-02	SOLID	<u>104.4</u>	<u>102.8</u>	<u>N/A</u>	Joules/g Dry
96000569	U-102	13 SAMPLE	S96T002636	0	DSC-02	SOLID	<u>N/A</u>	<u>24.07</u>		Joules/g Dry
96000569	U-102	14 DUP	S96T002636	0	DSC-02	SOLID	<u>24.07</u>	<u>29.36</u>	<u>N/A</u>	Joules/g Dry
96000569	U-102	15 SAMPLE	S96T002646	0	DSC-02	SOLID	<u>N/A</u>	<u>53.04</u>		Joules/g Dry
96000569	U-102	16 DUP	S96T002646	0	DSC-02	SOLID	<u>53.04</u>	<u>2.18</u>	<u>N/A</u>	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#

10100

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

Final page for worklist #

10100

H Anasta
Analyst Signature

6-20-96
Date

Analyst Signature

Date

Validated 6-20-96 Hea

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#

10101

Analyst: Hea Instrument: DSC01 _____ Book # N/A

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

Worklist Comment: U-102 Dry DSCs

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
96000536	U-102	1 SAMPLE	S96T002326	0		DSC-02	SOLID	<u>N/A</u>	<u>118.1</u>		Joules/g Dry
96000536	U-102	2 DUP	S96T002326	0		DSC-02	SOLID	<u>118.1</u>	<u>112.7</u>	<u>N/A</u>	Joules/g Dry
96000536	U-102	3 SAMPLE	S96T002332	0		DSC-02	SOLID	<u>N/A</u>	<u>480.8</u>		Joules/g Dry
96000536	U-102	4 DUP	S96T002332	0		DSC-02	SOLID	<u>480.8</u>	<u>587.9</u>	<u>N/A</u>	Joules/g Dry
96000536	U-102	5 SAMPLE	S96T002335	0		DSC-02	SOLID	<u>N/A</u>	<u>611.2</u>		Joules/g Dry
96000536	U-102	6 DUP	S96T002335	0		DSC-02	SOLID	<u>611.2</u>	<u>624.1</u>	<u>N/A</u>	Joules/g Dry
96000536	U-102	7 SAMPLE	S96T002338	0		DSC-02	SOLID	<u>N/A</u>	<u>107.5</u>		Joules/g Dry
96000536	U-102	8 DUP	S96T002338	0		DSC-02	SOLID	<u>107.5</u>	<u>114.2</u>	<u>N/A</u>	Joules/g Dry
96000536	U-102	9 SAMPLE	S96T002341	0		DSC-02	SOLID	<u>N/A</u>	<u>97.17</u>		Joules/g Dry
96000536	U-102	10 DUP	S96T002341	0		DSC-02	SOLID	<u>97.17</u>	<u>127.9</u>	<u>N/A</u>	Joules/g Dry
96000536	U-102	11 SAMPLE	S96T002347	0		DSC-02	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g Dry
96000536	U-102	12 DUP	S96T002347	0		DSC-02	SOLID	<u>Ø</u>	<u>104.0</u>	<u>N/A</u>	Joules/g Dry

Final page for worklist #

10101

Hea
Analyst Signature Date 6-20-96

Analyst Signature Date

Validated 6-20-96 Hea

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
06/20/96 14:15

Page: 1

LABCORE Data Entry Template for Worklist#

10117

Analyst: BN Instrument: DSC01 Book # Method: LA-514-113 Rev/Mod

Worklist Comment: Dry DSC for U-102. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
96000536	U-102	1 SAMPLE	S96T002329	0	DSC-02	SOLID	N/A	109.6		Joules/g Dry
96000536	U-102	2 DUP	S96T002329	0	DSC-02	SOLID	109.6	106.8	N/A	Joules/g Dry
96000536	U-102	3 SAMPLE	S96T002344	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
96000536	U-102	4 DUP	S96T002344	0	DSC-02	SOLID	Ø	15.45	N/A	Joules/g Dry
96000536	U-102	5 TRIPL	S96T002344	0	DSC-02	SOLID	Ø	10.63	N/A	Joules/g Dry
96000536	U-102	6 SAMPLE	S96T002665	0	DSC-02	SOLID	N/A	305.0		Joules/g Dry
96000536	U-102	7 DUP	S96T002665	0	DSC-02	SOLID	305.0	154.4	N/A	Joules/g Dry
96000536	U-102	8 SAMPLE	S96T002665	1	DSC-02	SOLID	N/A	258.5		Joules/g Dry
96000536	U-102	9 DUP	S96T002665	1	DSC-02	SOLID	258.5	222.7	N/A	Joules/g Dry
96000536	U-102	10 SAMPLE	S96T002323	0	DSC-02	LIQUID	N/A	246.8		Joules/g Dry
96000536	U-102	11 DUP	S96T002323	0	DSC-02	LIQUID	246.8	251.3	N/A	Joules/g Dry
96000569	U-102	12 SAMPLE	S96T002549	0	DSC-02	LIQUID	N/A	207.5		Joules/g Dry
96000569	U-102	13 DUP	S96T002549	0	DSC-02	LIQUID	207.5	272.8	N/A	Joules/g Dry
96000569	U-102	14 SAMPLE	S96T002762	0	DSC-02	LIQUID	N/A	Ø		Joules/g Dry
96000569	U-102	15 DUP	S96T002762	0	DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry

Final page for worklist #

10117

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.

Jun. 26. 1996

3:26PM

WHC 222S LAB ROOM 2F BACKSIDE

No. 2458 P. 2/2

worklistrpt Version 2.1 05/15/95

Page: 2

06/20/96 14:15

LABCORE Data Entry Template for Worklist#**10117**

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

WHC-SD-WM-DP-160, REV.0

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.

167

LABCORE Data Entry Template for Worklist#

9248

Analyst: ROM Instrument: TGA0 1 Book # 82N8A

Method: LA-560-112 Rev/Mod B1

Worklist Comment: U-102 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	58.06 57.67	5/31/96 N/A	%
96000536	U-102	2 SAMPLE	S96T002323	0	TGA-01	LIQUID	N/A	50.93		%
96000536	U-102	3 DUP	S96T002323	0	TGA-01	LIQUID	50.93	50.28	N/A	%

Final page for worklist #

9248

ROM 5/31/96
Analyst Signature Date

Frank Conlin 5-31-96
Analyst Signature Date

Validated by H. Anestor 6/2/96

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 169 TO 171.

TGA STD 82NB-A N2

18.616 mg

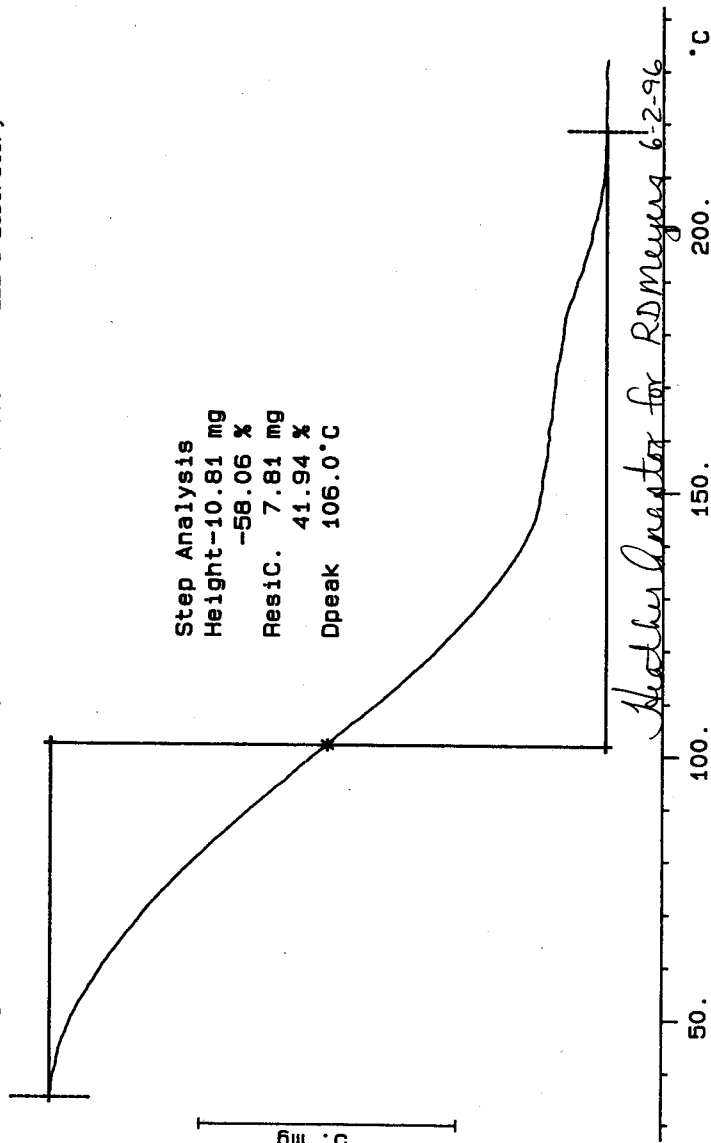
Rate: 20.0 °C/min

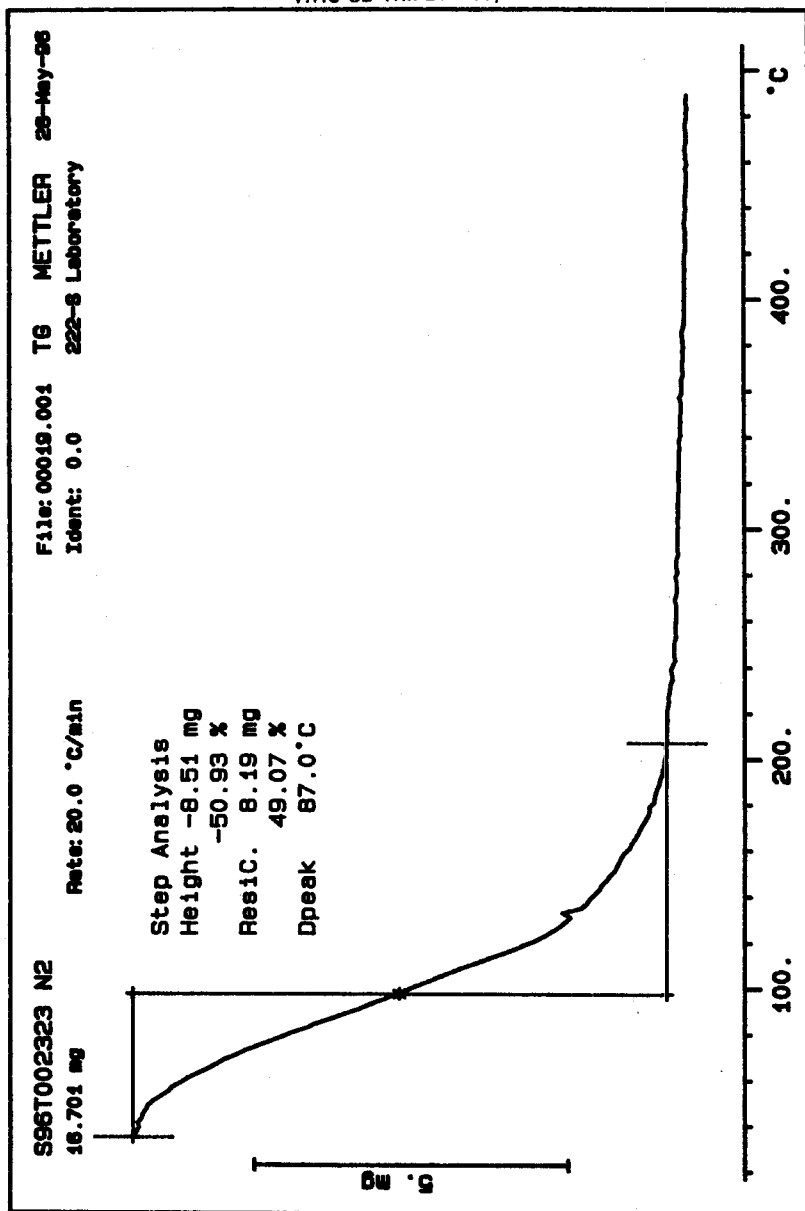
File: 00013.001 TG METTLER 28-May-96

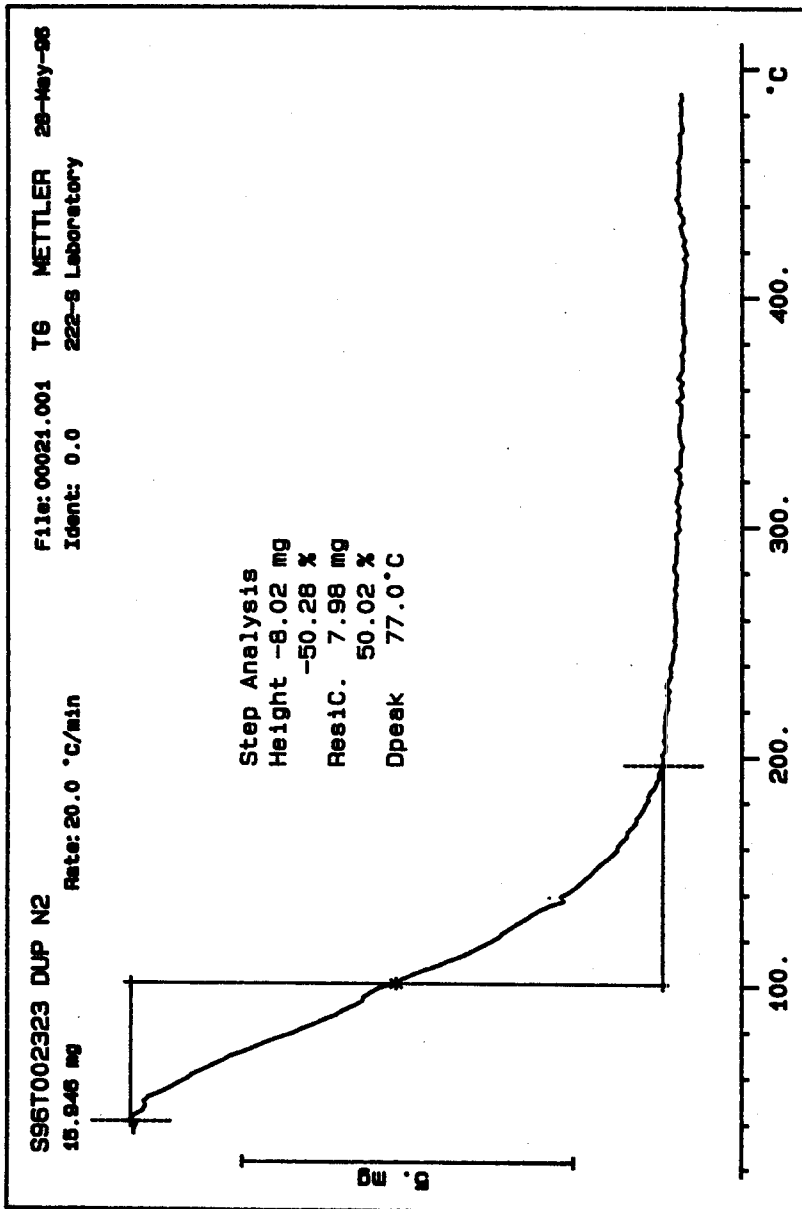
Ident: 0.0 222-S Laboratory

Step Analysis
Height-10.81 mg
-58.06 %
Resid. 7.81 mg
41.94 %
Dpeak 106.0 °C

5. mg







WHC-SD-WM-DP-189, REV. 0
LABCORE Data Entry Template for Worklist#

9249

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

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

Worklist Comment: U-102 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	<u>59.2</u>	<u>58.79</u>	<u>N/A</u>	%
96000536	U-102	4 SAMPLE	596T002329	0	TGA-03	SOLID	<u>N/A</u>	<u>51.79</u>		%
96000536	U-102	5 DUP	596T002329	0	TGA-03	SOLID	<u>51.79</u>	<u>51.35</u>	<u>N/A</u>	%

Final page for worklist # 9249

Blandina Valenzuela ⁶⁻²⁰⁻⁹⁶
Analyst Signature **Date** for DJ McLow

Stu Peter 6-20-96
Analyst Signature **Date**

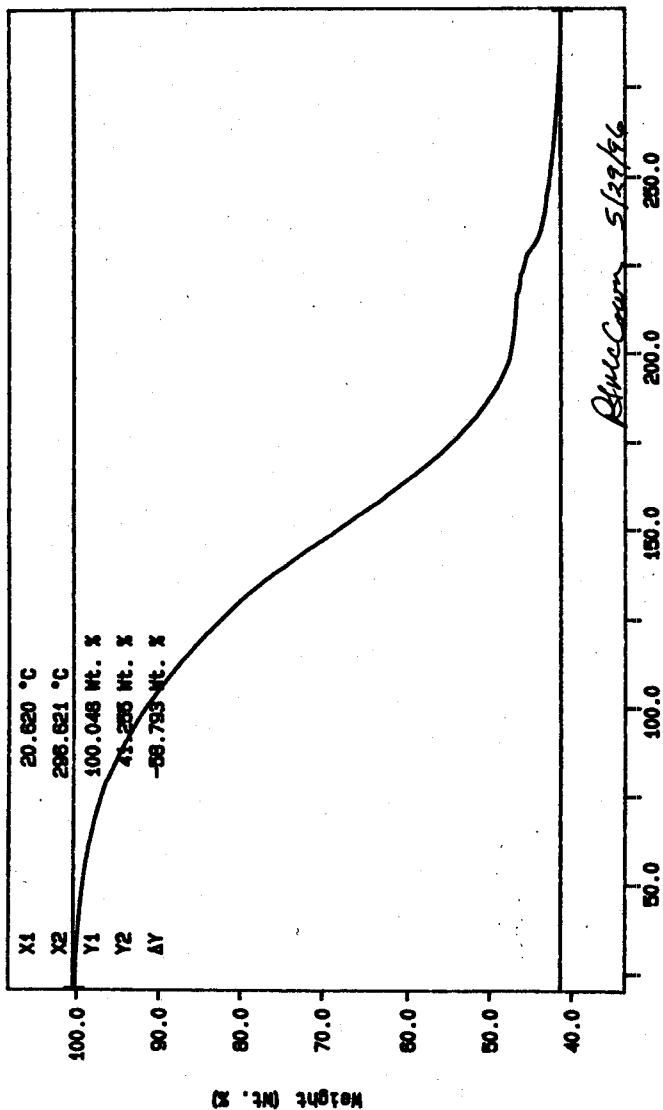
Reviewed 6/20/96
R.B. [Signature]

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.

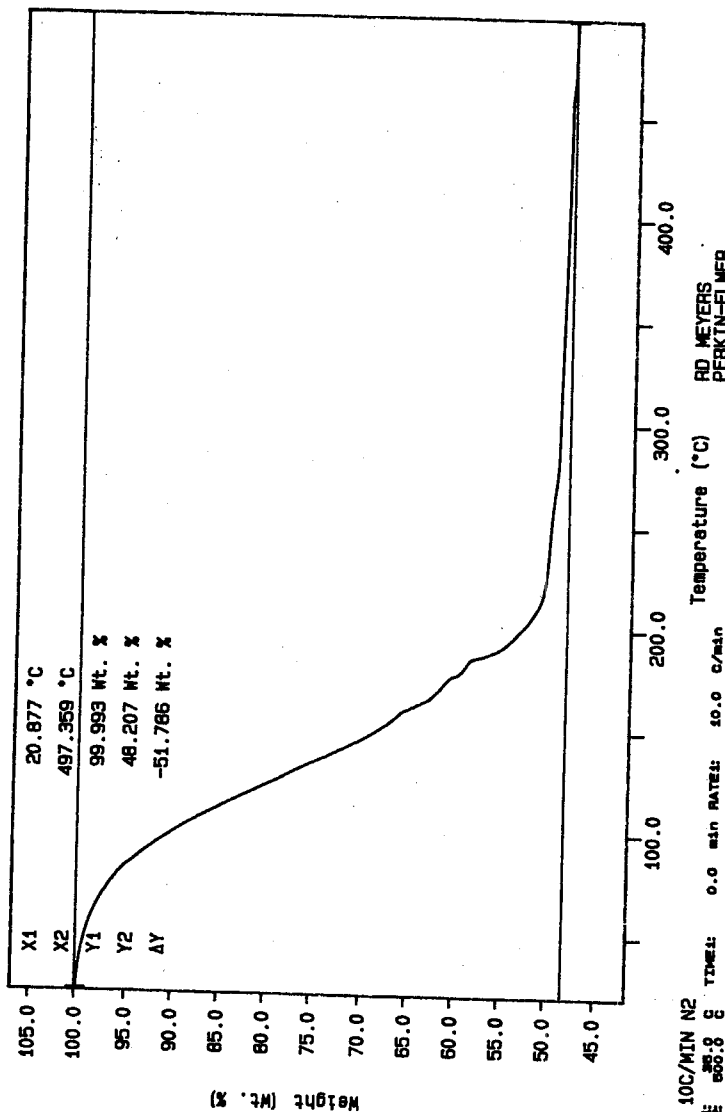
Curve 1: TBA
 File Info: TER082901 Wed May 29 08:57:41 1998
 Sample Weight: 23.088 mg
 TBA STD 8298-A

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 173 TO 175.

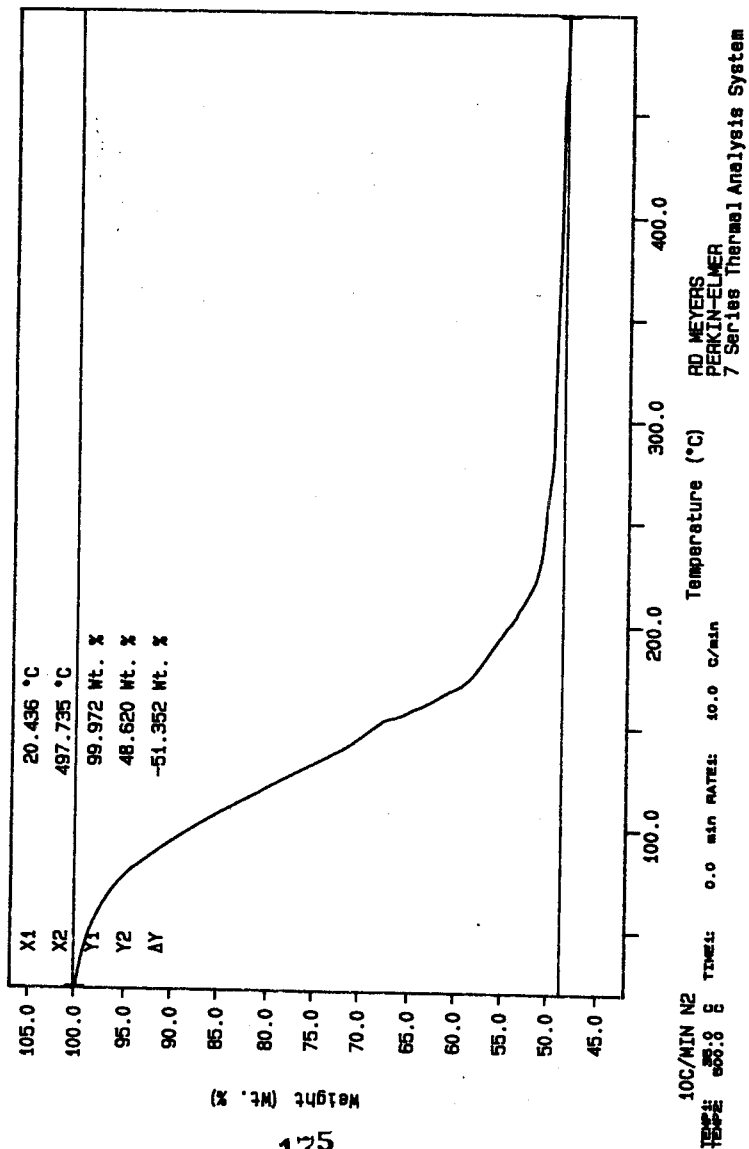


N2 100/MIN
 THERM 25.8 g THERM 0.0 min RATE 10.0 C/min
 PJ MCCOMB
 PERKIN-ELMER
 7 Series Thermal Analysis System

Curve 1: TGA
 File info: SAM052907 Wed May 29 22:36:57 1996
 Sample Weight: 13.661 mg
 S96T002329



Curve 1: TGA
 File Info: SAM053001 Thu May 30 02:04:32 1996
 Sample Weight: 11.674 mg
 S96T0023290UP



LABCORE Data Entry Template for Worklist#

9250

Analyst: Yoon

Instrument: TGA0 1

Book # 92N0A

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

Worklist Comment: U-102 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	57.98	*	N/A %
96000536	U-102	2 SAMPLE	S96T002332	0	TGA-01	SOLID	N/A	50.30		%
96000536	U-102	3 DUP	S96T002332	0	TGA-01	SOLID	50.30	51.41		N/A %
96000536	U-102	4 SAMPLE	S96T002335	0	TGA-01	SOLID	N/A	50.52		%
96000536	U-102	5 DUP	S96T002335	0	TGA-01	SOLID	50.52	48.92		N/A %

Final page for worklist # 9250

Yoon 5/30/96
Analyst Signature Date

Frank Conlin 6-1-96
Analyst Signature Date

Validated by HAnast 6/2/96

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 177 TO 181.

TGA STD 82N8-A N2

19.504 mg

Rate: 10.0 °C/min

File: 00027.001

T6

METTLER

28-May-88

Ident: 0.0

222-8 Laboratory

Step Analysis

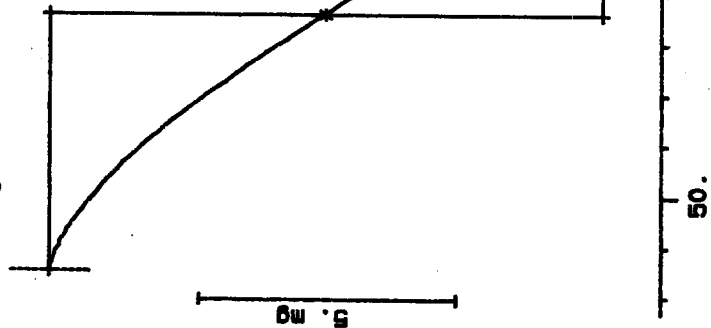
Height-10.73 mg

-57.98 %

Resid. 7.78 mg

42.02 %

Dpeak 85.0 °C



Heather Quast for RDMeyers 6/2/96

S95T002332 N2

13.612 mg

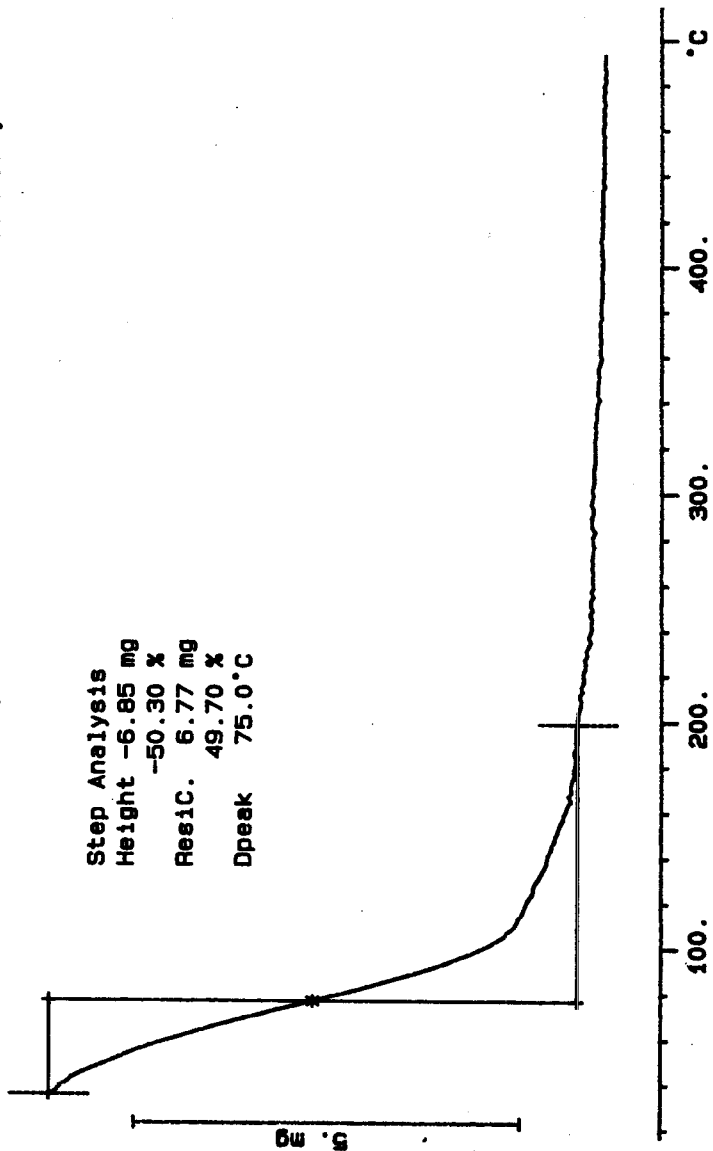
Rate: 10.0 °C/min

File: 00033.001 TG

Ident: 0.0 222-S Laboratory

30-May-88

Step Analysis
 Height -6.85 mg
 -50.30 %
 Res1C. 6.77 mg
 49.70 %
 Dpeak 75.0 °C



S96T002332 DUP N2

13.935 mg

Rate: 10.0 °C/min

File: 00035.001 TG

METTLER

30-May-96

Ident: 0.0 222-8 Laboratory

Step Analysis

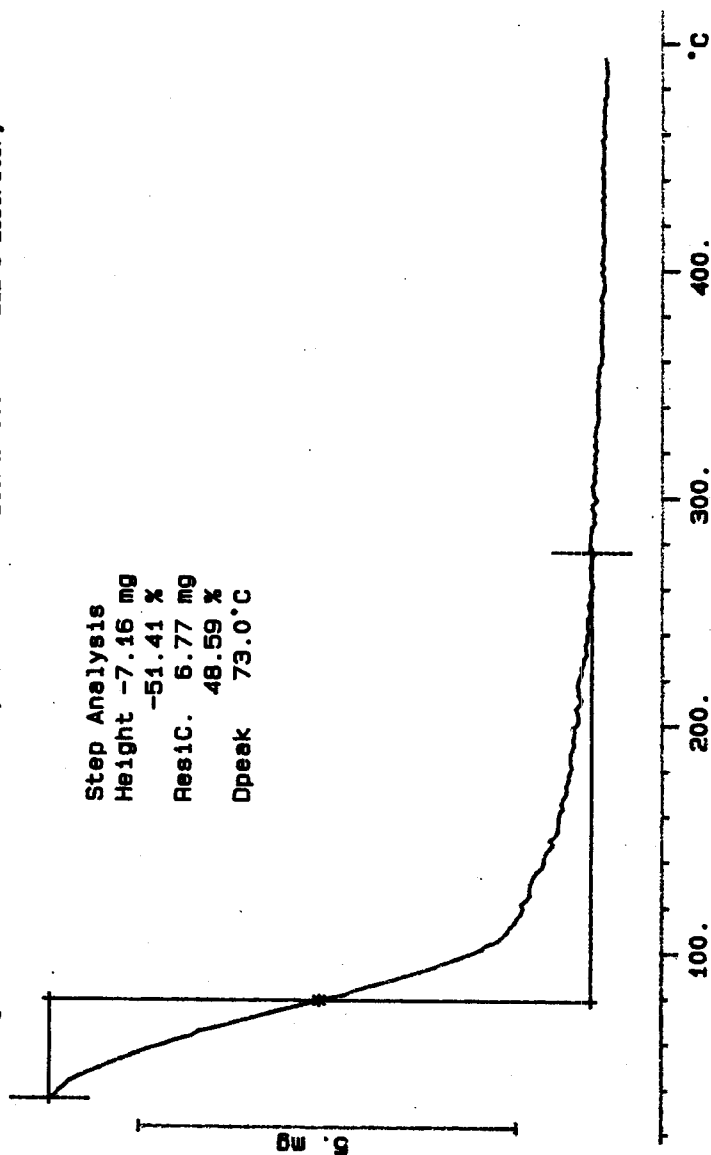
Height -7.16 mg

-51.41 %

Resid. 6.77 mg

48.59 %

Dpeak 73.0 °C



S96T002335 N2

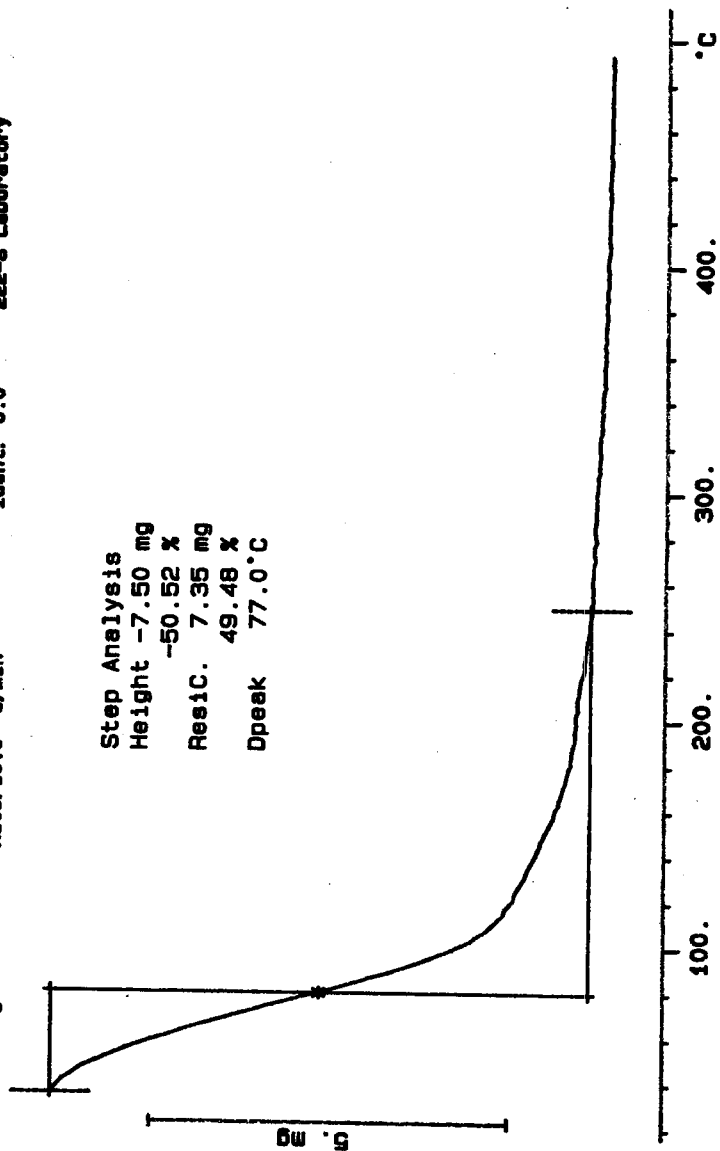
14.848 mg

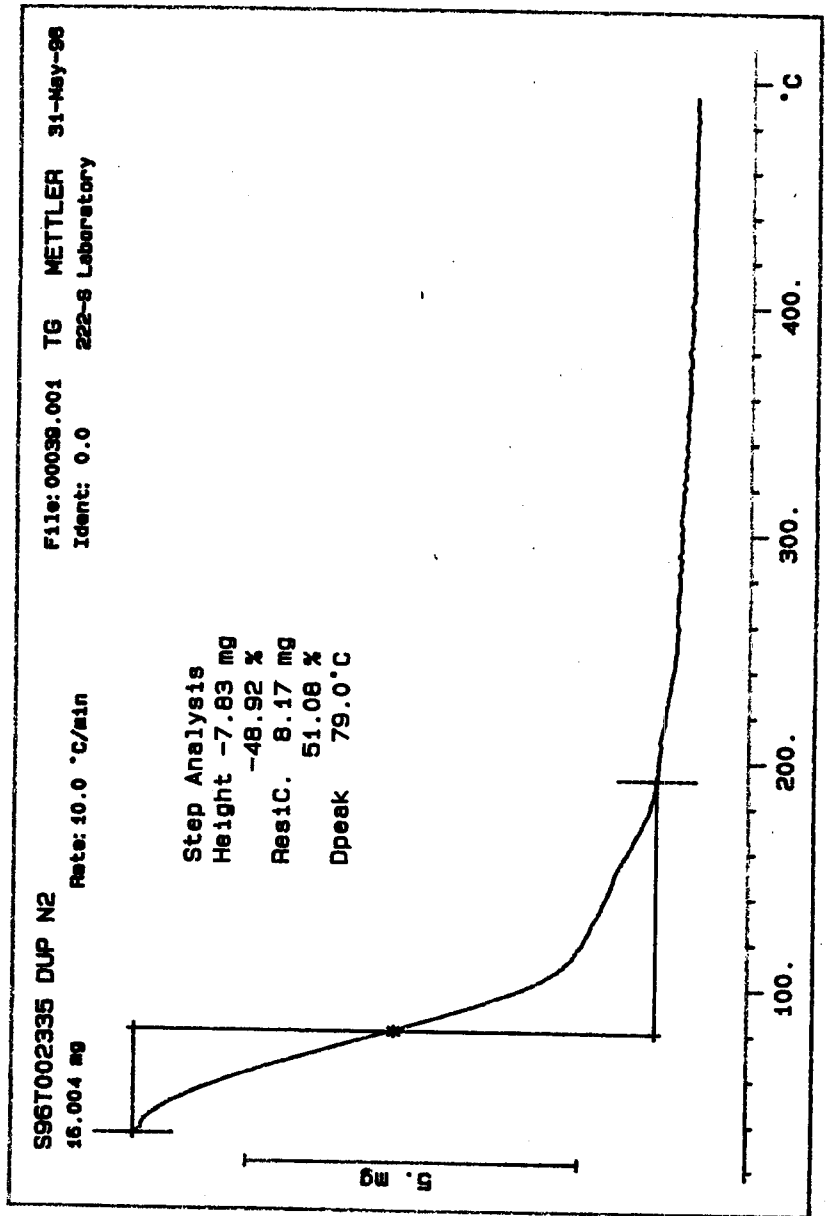
Rate: 10.0 °C/min

File: 00037.001 T6 METTLER 30-May-86

Ident: 0.0 222-8 Laboratory

Step Analysis
Height -7.50 mg
-50.52 %
Res1C. 7.35 mg
49.48 %
Dpeak 77.0 °C





LABCORE Data Entry Template for Worklist#

9251

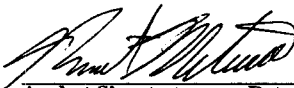
Analyst: KRM Instrument: TGA0 1 Book # 82NBA

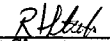
Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-102 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.2</u>	<u>58.56</u> *	<u>N/A</u>	<u>X</u>
96000536	U-102	2 SAMPLE	S96T002338 0		TGA-01	SOLID	<u>N/A</u>	<u>42.94</u>		<u>X</u>
96000536	U-102	3 DUP	S96T002338 0		TGA-01	SOLID	<u>42.94</u>	<u>43.60</u>	<u>N/A</u>	<u>X</u>
96000536	U-102	4 SAMPLE	S96T002341 0		TGA-01	SOLID	<u>N/A</u>	<u>31.61</u>		<u>X</u>
96000536	U-102	5 DUP	S96T002341 0		TGA-01	SOLID	<u>31.61</u>	<u>33.17</u>	<u>N/A</u>	<u>X</u>

Final page for worklist # 9251


Analyst Signature Date 5-31-96


Analyst Signature Date 6-4-96

Validated by HEA 6/4/96

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 183 TO 187.

TGA STD 82N8-A

18.481 mg

Rate: 10.0 °C/min

File: 00041.001

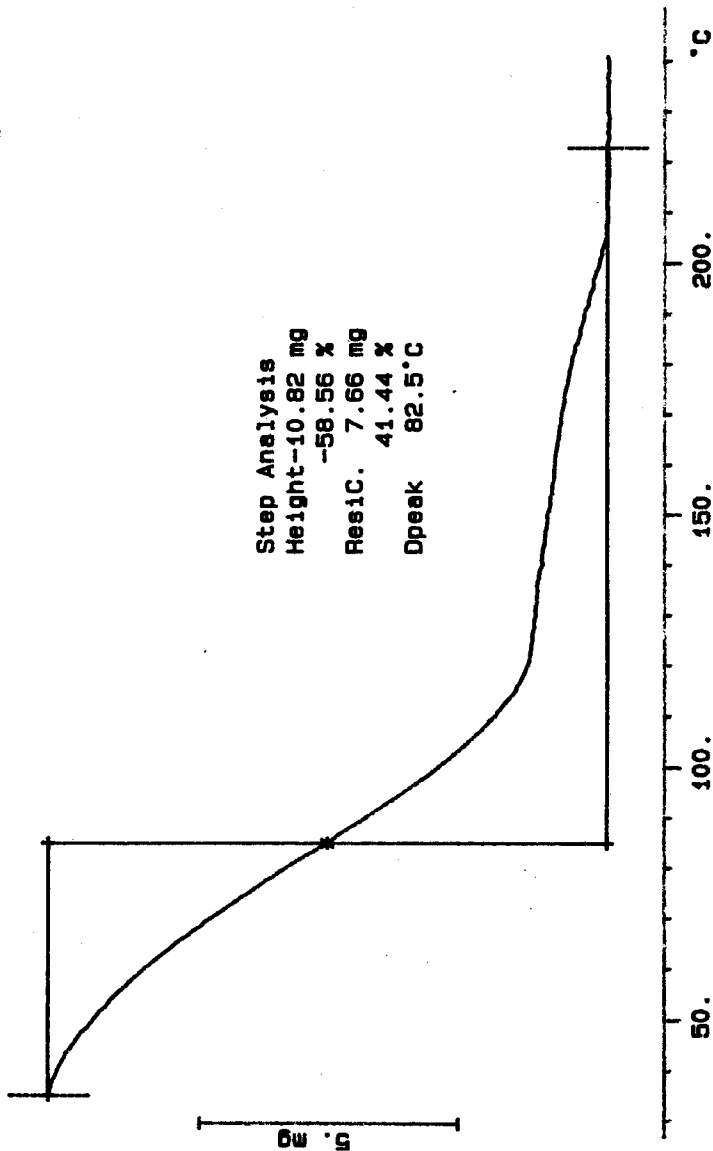
T6

METTLER 31-May-88

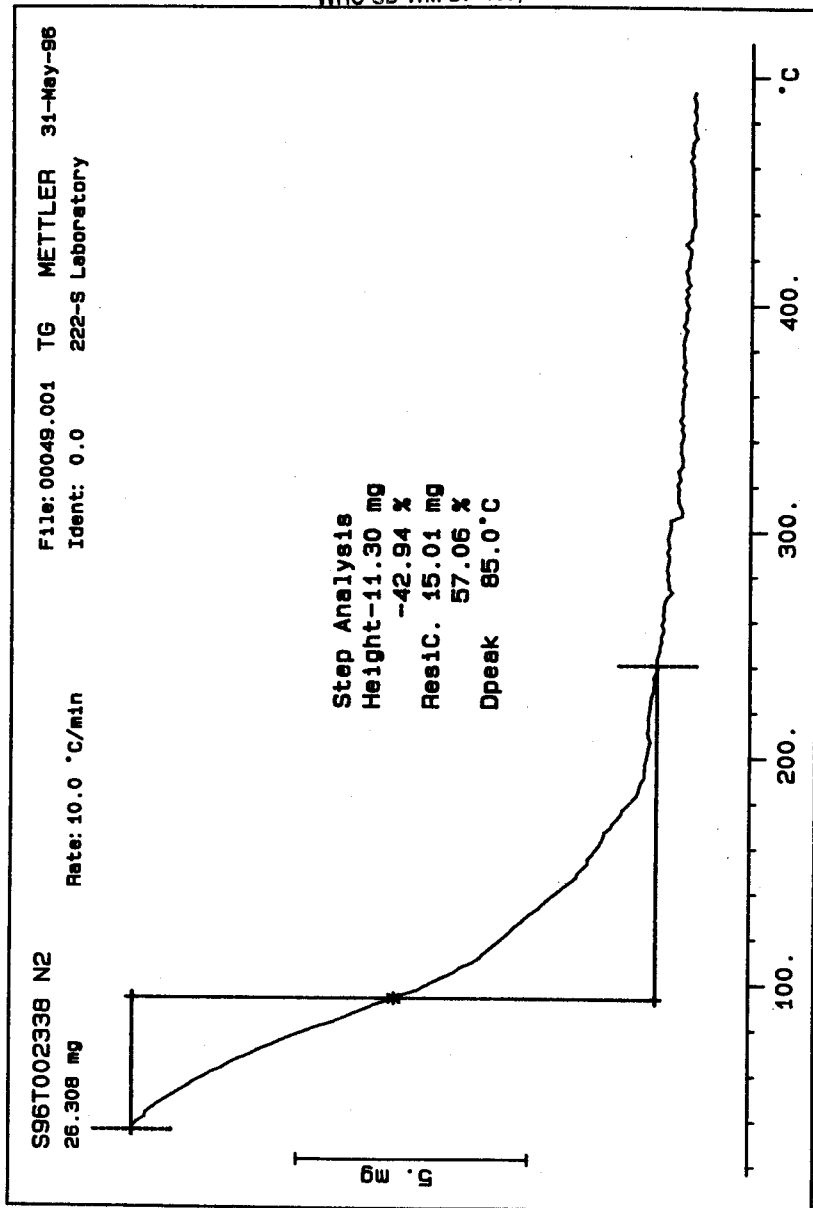
Ident: 0.0

222-8 Laboratory

Step Analysis
Height-10.82 mg
-58.56 %
Resid. 7.66 mg
41.44 %
Dpeak 82.5 °C



John A. M. Smith 5-31-96



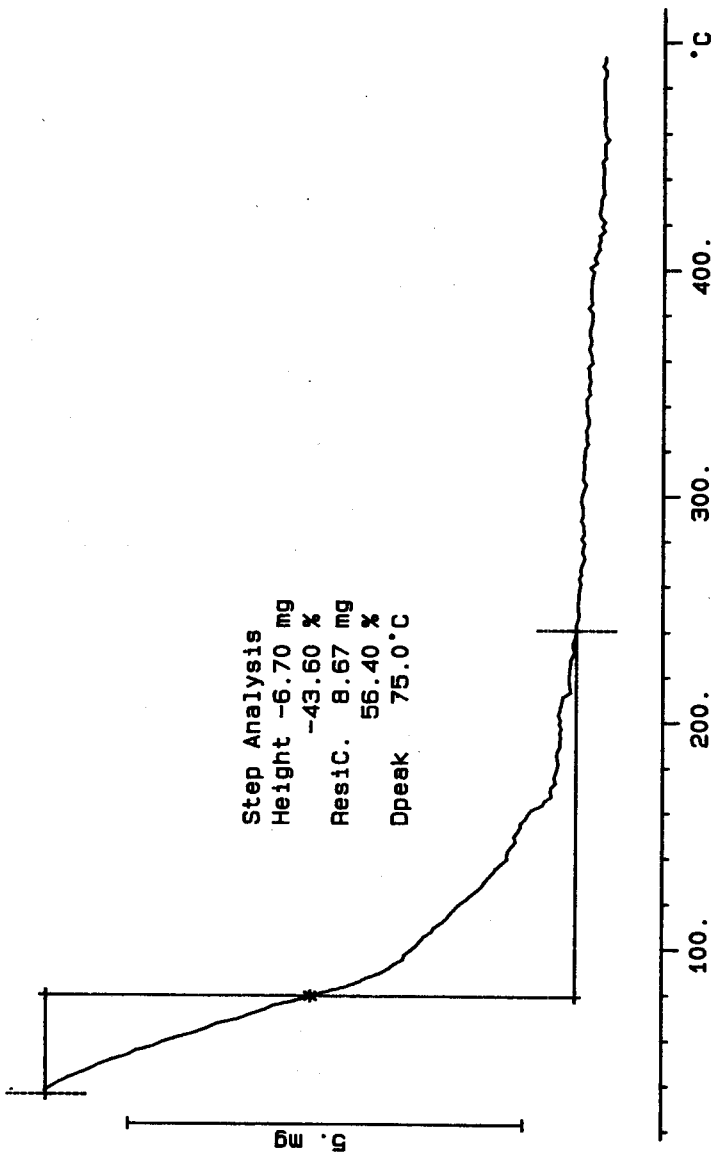
S96T002338 DUP N2

15.375 mg

Rate: 10.0 °C/min

File: 00051.001 TG METTLER 31-May-96

Ident: 0.0 222-S Laboratory



S96T002341 SAM N2

8.298 mg

Rate: 10.0 °C/min

File: 00053.001

Ident: 0.0

TG METTLER 31-May-96

222-S Laboratory

Step Analysis

Height -1.34 mg

-16.13 %

Resid. 6.96 mg

83.87 %

Step Analysis

Height -4.01 mg

-12.21 %

Resid. 5.95 mg

71.67 %

Step Analysis

Height -0.27 mg

-3.27 %

Resid. 5.66 mg

68.15 %

Dpeak 157.0 °C

Step Analysis

Height -0.24 mg

-2.90 %

Resid. 5.41 mg

65.25 %

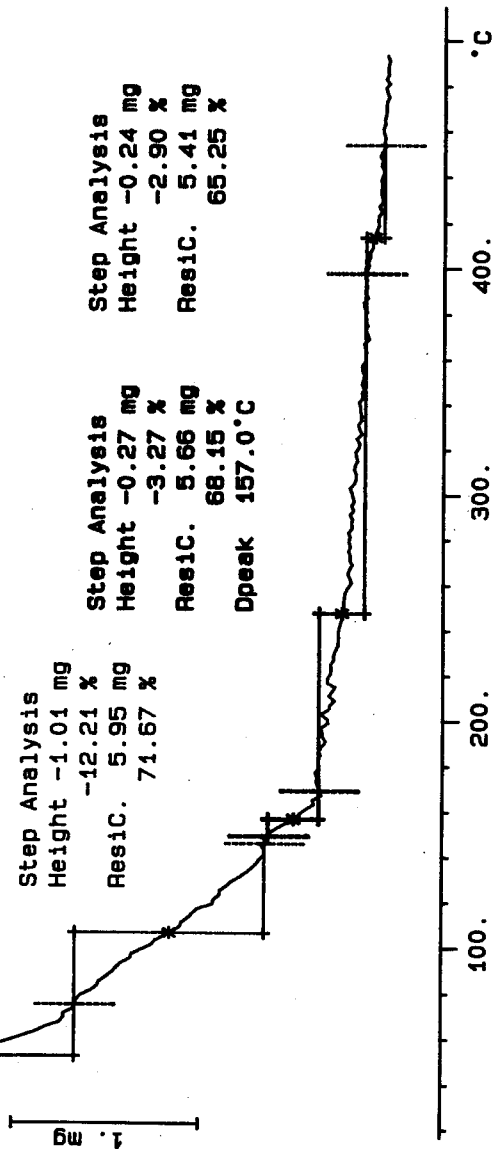
Step Analysis

Height -0.10 mg

-1.17 %

Resid. 5.32 mg

64.09 %



S96T002341 DUP N2

37.183 mg

Rate: 10.0 °C/min

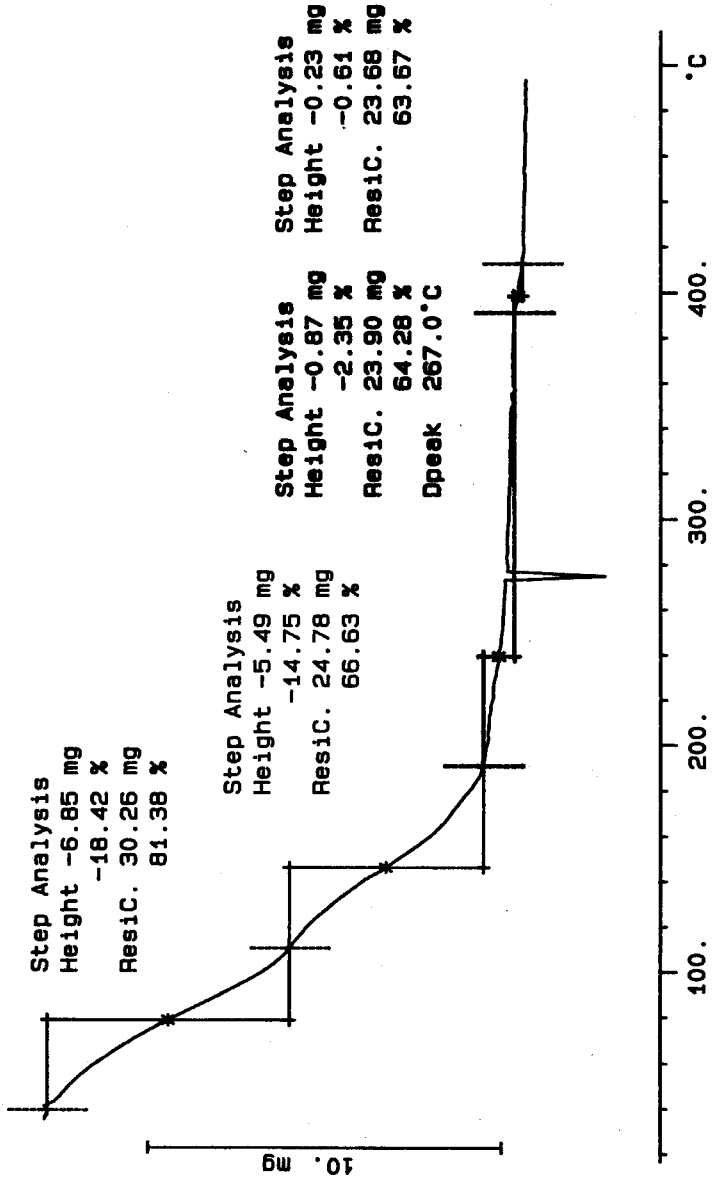
File: 00055.001 TG

METTLER

31-May-96

Ident: 0.0

222-S Laboratory



LABCORE Data Entry Template for Worklist#

9252

Analyst: ADP Instrument: TGA0 3 Book # 82N8A

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

Worklist Comment: U-102 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	<u>59.2</u>	<u>58.29*</u>	<u>N/A</u>	<u>X</u>
96000536	U-102	2 SAMPLE	S96T002344	0	TGA-03	SOLID	<u>N/A</u>	<u>22.44</u>		<u>X</u>
96000536	U-102	3 DUP	S96T002344	0	TGA-03	SOLID	<u>22.44</u>	<u>14.78</u>	<u>N/A</u>	<u>X</u>
96000536	U-102	4 SAMPLE	S96T002347	0	TGA-03	SOLID	<u>N/A</u>	<u>46.82</u>		<u>X</u>
96000536	U-102	5 DUP	S96T002347	0	TGA-03	SOLID	<u>46.82</u>	<u>43.20</u>	<u>N/A</u>	<u>X</u>

Final page for worklist #

9252

See attached for signatures

Analyst Signature

Date

6/3/96

ADP

R. Jones

Analyst Signature

Date

6-5-96

Validated by J. Anastas 6-6-96

S96T002344 ^{REV} ~~San~~ ^{6/2/96} will be rerun because of the shape of the thermogram being so different and the high RPD.

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#

9252

Analyst: ADD Instrument: TGA0 _____ Book # 82N8A

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

Worklist Comment: U-102 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	%
96000536	U-102	2 SAMPLE	S96T002344	0	TGA-01	SOLID	N/A	_____	_____	%
96000536	U-102	3 DUP	S96T002344	0	TGA-01	SOLID	_____	_____	N/A	%
96000536	U-102	4 SAMPLE	S96T002347	0	TGA-01	SOLID	N/A	_____	_____	%
96000536	U-102	5 DUP	S96T002347	0	TGA-01	SOLID	_____	_____	N/A	%

Final page for worklist #

9252


Analyst Signature _____ Date 05-31-96

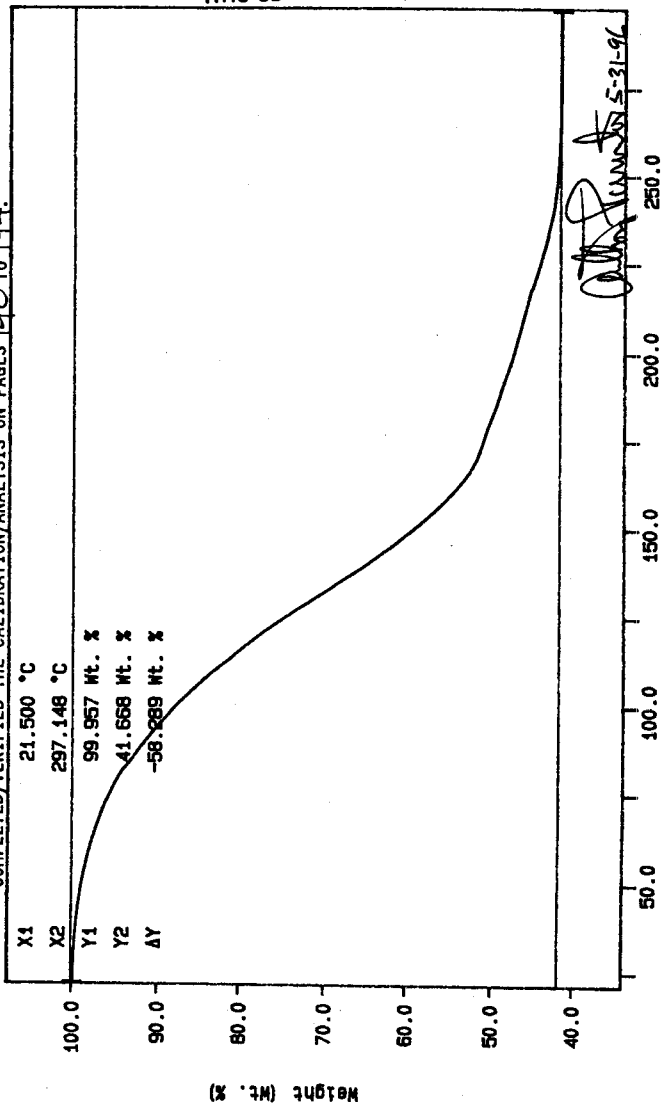
Analyst Signature _____ Date _____

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: TGA
 File info: TER053101 Fri May 31 15:36:18 1996
 Sample Weight: 14.833 mg
 TGA STD 82NB-A

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 190 TO 194.



Weight (Wt. %)

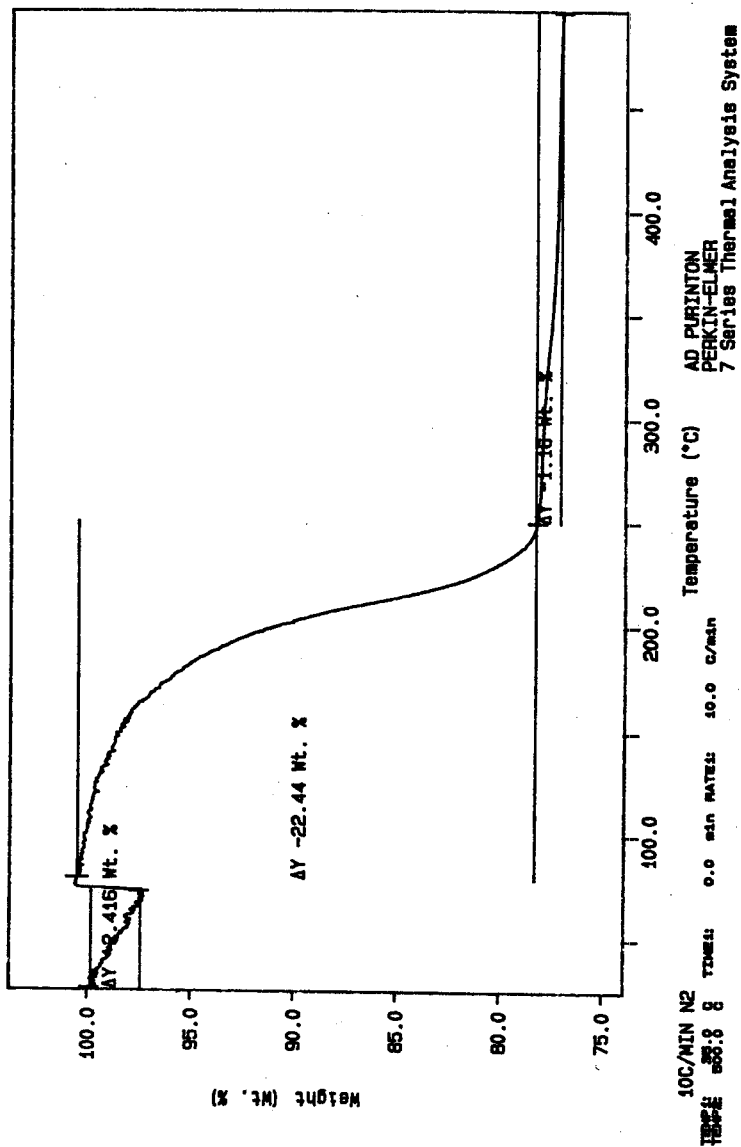
190

WHC-SD-WM-DP-189, REV. 0

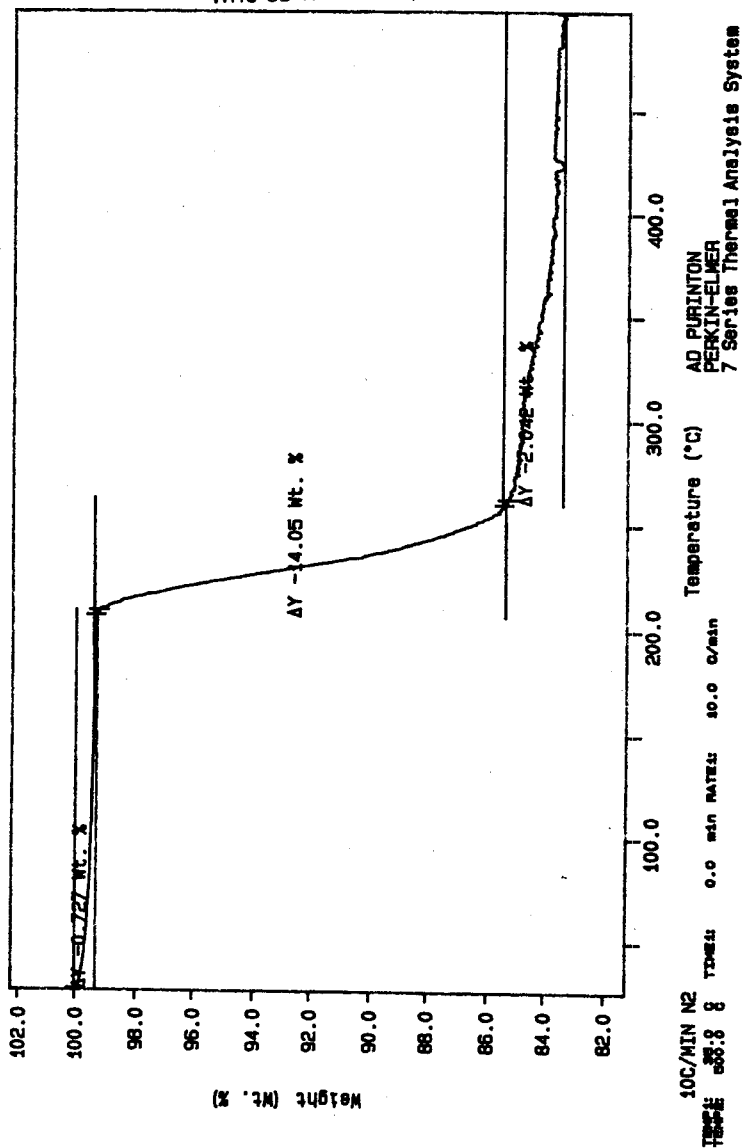
N2 10C/MIN
 TEMPERATURE 350.0 °C
 TIME 350.0 S
 0.0 min RATE: 10.0 C/min
 Temperature (°C)
 PJ MCCOY
 PERKIN-ELMER
 7 Series Thermal Analysis System

[Signature]
 5-31-96

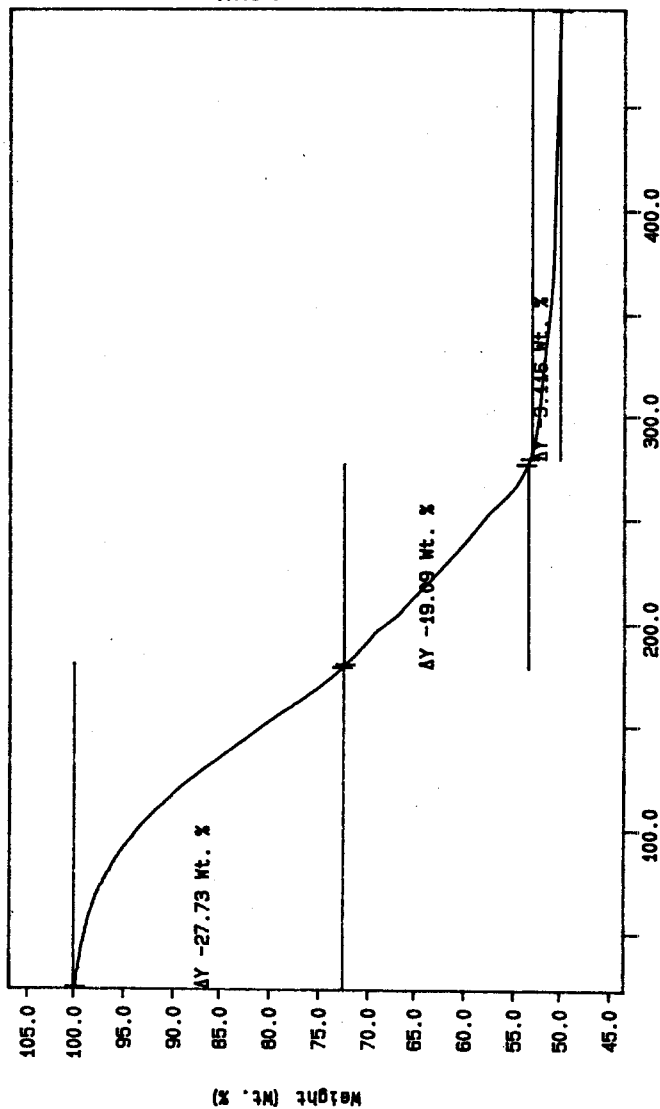
Curve 1: TGA
 File info: SAM053106 Sat Jun 1 02:55:02 1996
 Sample Weight: 29.404 mg
 S96T002344 SAM



Curve 1: TGA
 File Info: SAM053107 Sat Jun 1 04:06:30 1996
 Sample Weight: 29.141 mg
 S96T002344-SAM053107
 Dup 5-3196

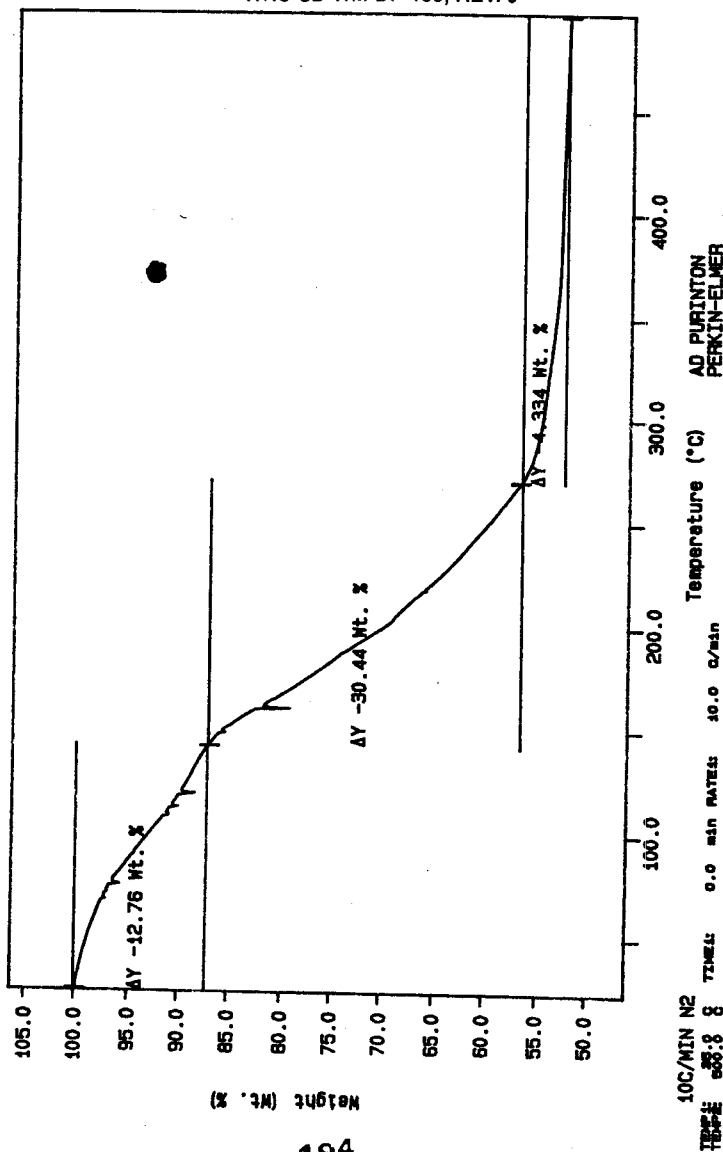


Curve 1: TGA
 File info: SAM053103 Fri May 31 23:25:16 1996
 Sample Weight: 21.545 mg
 S96T002947 SAM



10C/MIN N2
 TGA: 20.0 g
 TGA: 000.0 g
 TGA: 0.0 min RATE: 10.0 C/min
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System

Curve 1: TGA
 File Info: SAM053104 Sat Jun 1 01:15:28 1996
 Sample Weight: 23.128 mg
 S96T002347 DUP



10C/MIN N2
 THERM 005.8 8 TIME 11.0 min RATES 10.0 C/min
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System

LABCORE Data Entry Template for Worklist#

9383

Analyst: AD Instrument: TGA0 1 Book # 82N8A

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

Worklist Comment: U-102 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	58.54	*	N/A %
96000536	U-102	2 SAMPLE	S96T002665	0	TGA-01	SOLID	N/A	40.24		%
96000536	U-102	3 DUP	S96T002665	0	TGA-01	SOLID	40.24	32.66		N/A %
96000536	U-102	4 SAMPLE	S96T002666	0	TGA-01	SOLID	N/A	46.26		%
96000536	U-102	5 DUP	S96T002666	0	TGA-01	SOLID	46.26	42.96		N/A %

Final page for worklist #

9383

Anthony Punter 6-1-96
Analyst Signature Date

R. Jones 6-5-96
Analyst Signature Date

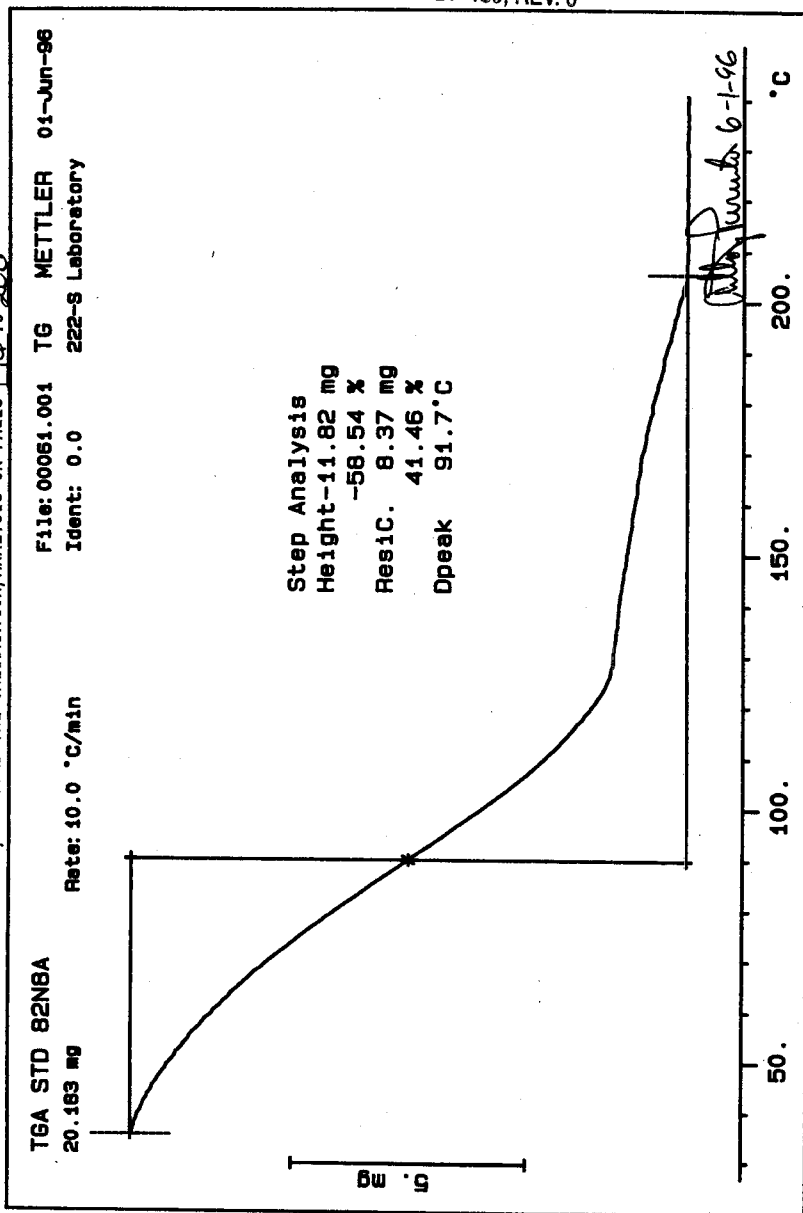
Validated by Alhaston 6-6-96

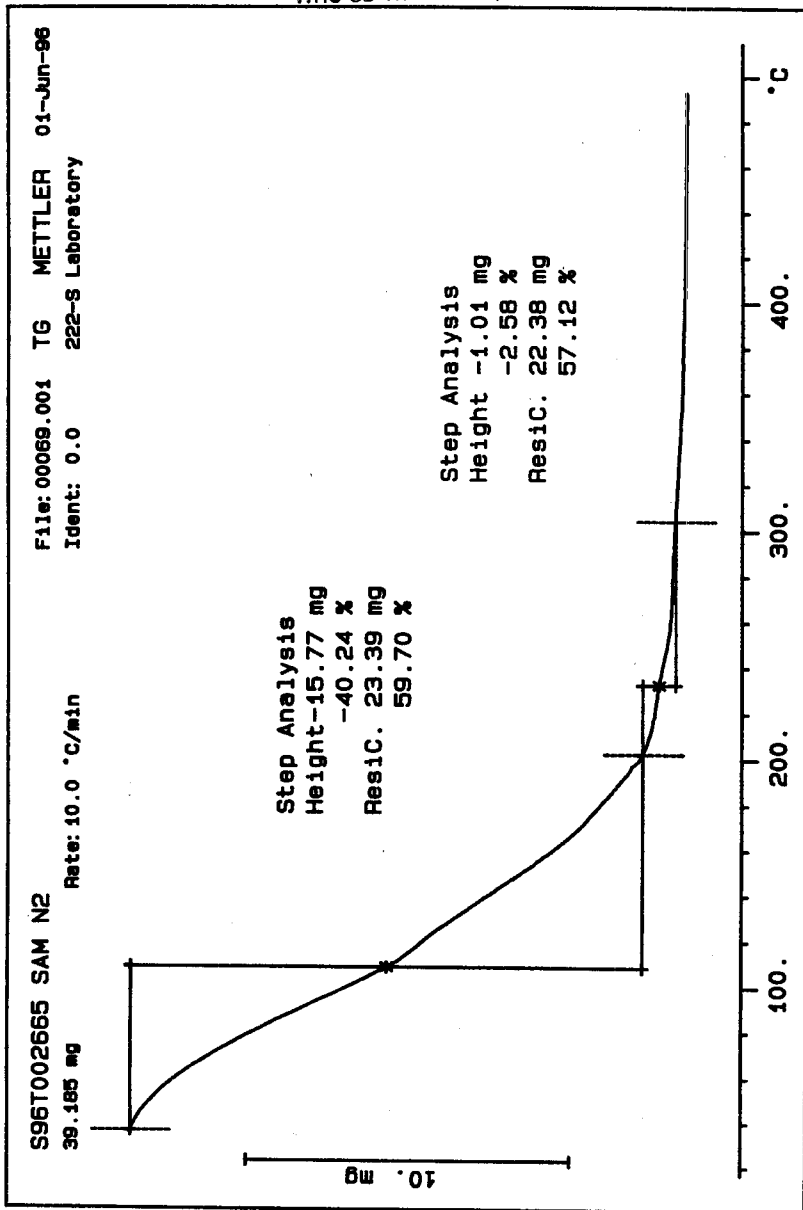
Data Entry Comments:

S96T002665 duplicate 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 196 TO 200





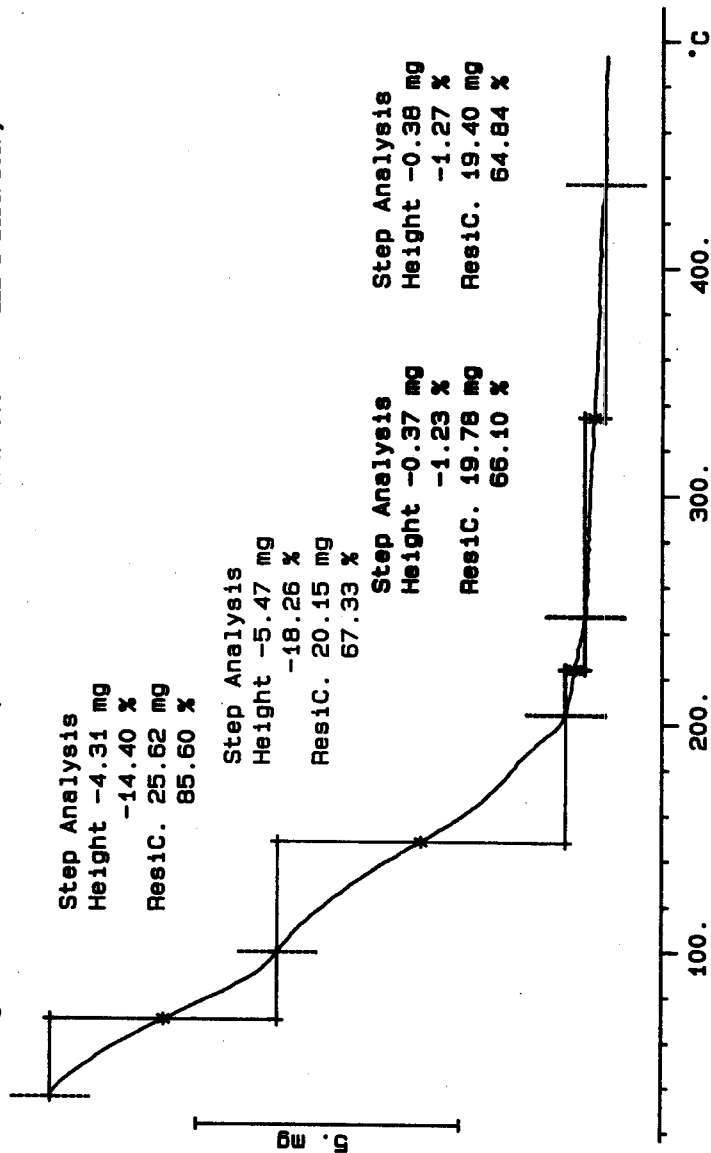
S96T002665 DUP N2

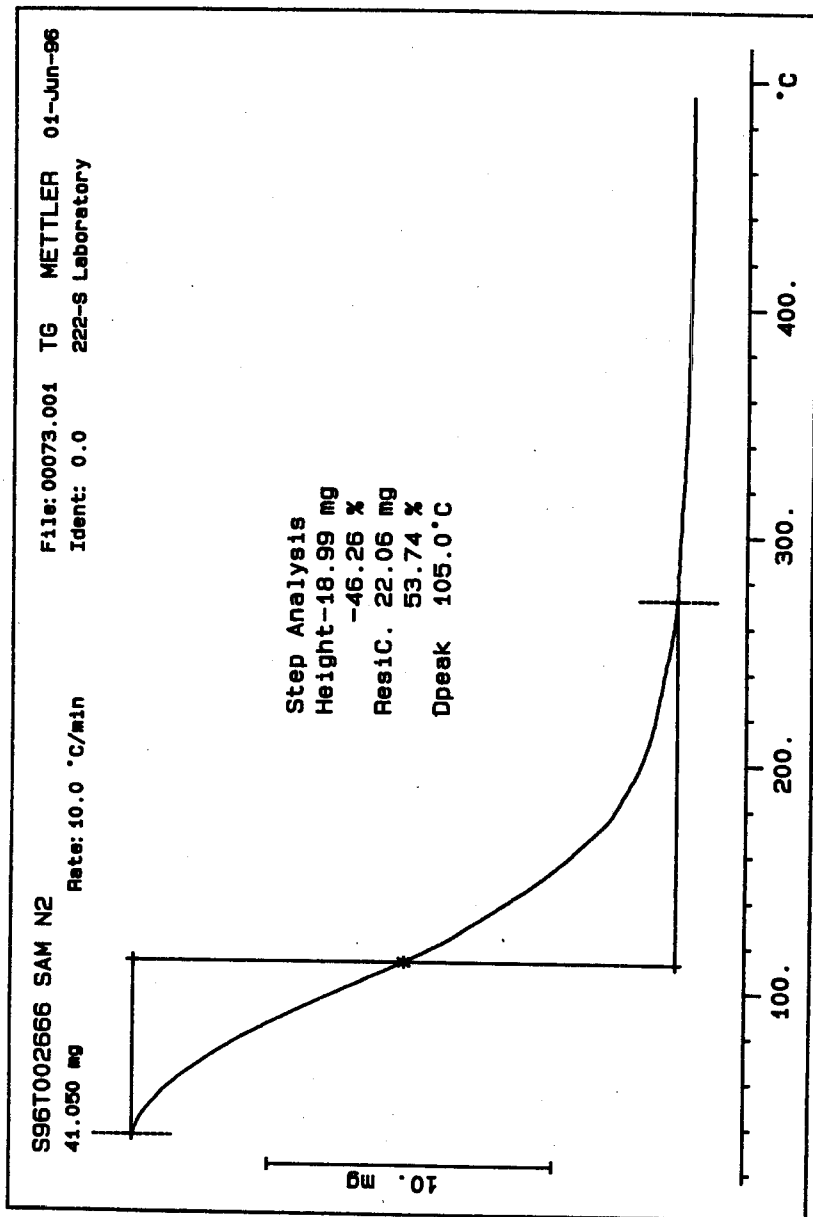
29.927 mg

Rate: 10.0 °C/min

File: 00071.001 TG METTLER 01-Jun-96

Ident: 0.0 222-8 Laboratory





S96T002666 DUP N2

31.633 mg

Rate: 10.0 °C/min

File: 00075.001 TG

METTLER

02-Jun-96

Ident: 0.0 222-S Laboratory

Step Analysis
Height-13.59 mg
-42.96 %
Res1C. 18.04 mg
57.04 %
Dpeak 91.0 °C

Step Analysis
Height -0.81 mg
-2.56 %
Res1C. 17.23 mg
54.48 %

5. mg

100. 200. 300. 400. °C

LABCORE Data Entry Template for Worklist#

9384

Analyst: ADP Instrument: TGA0 1 Book # 82 N8A

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

Worklist Comment: U-102 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	58.42*	N/A	X
96000536	U-102	2 SAMPLE	S96T002755 0		TGA-01	SOLID	N/A	41.68		X
96000536	U-102	3 DUP	S96T002755 0		TGA-01	SOLID	41.68	40.7	N/A	X

Final page for worklist # 9384

Anthony Scrima 5-31-96
Analyst Signature Date

R/Whit 6-4-96
Analyst Signature Date

Validated by JH Anaster 6/4/96

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 202 TO 204

TGA STD 82NB-A

18.481 mg

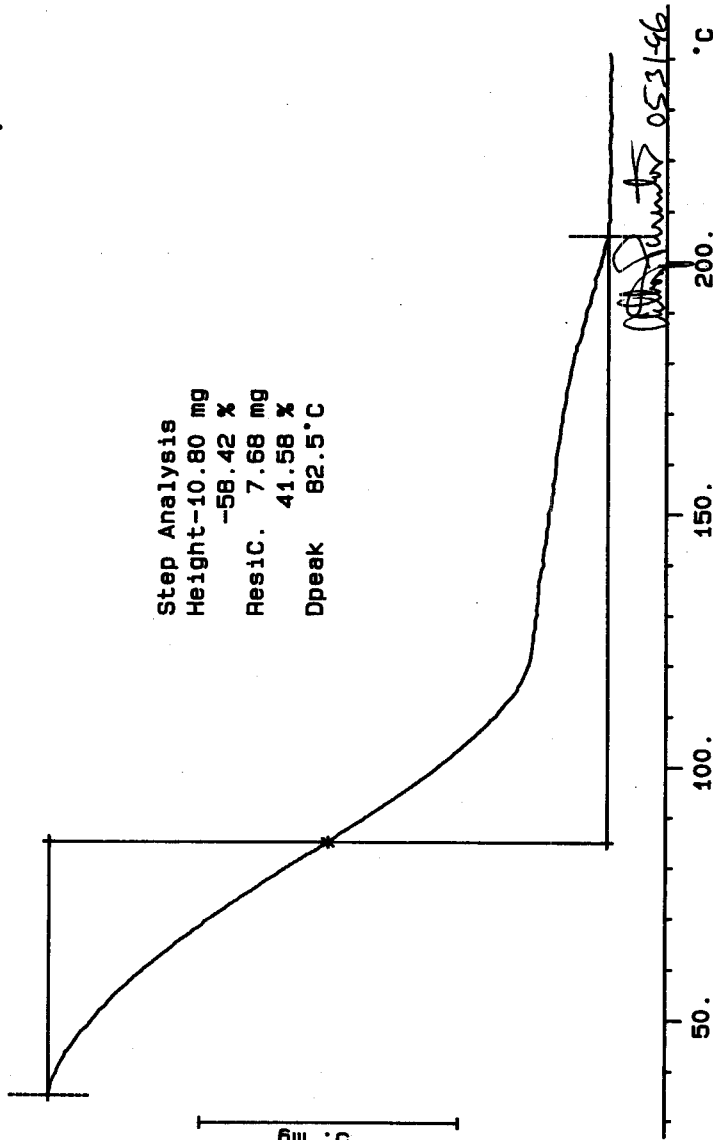
Rate: 10.0 °C/min

File: 00041.001 TG METTLER 31-May-86

Ident: 0.0 222-S Laboratory

Step Analysis
Height-10.80 mg
-58.42 %
Resid. 7.68 mg
41.58 %
Dpeak 82.5 °C

5. mg



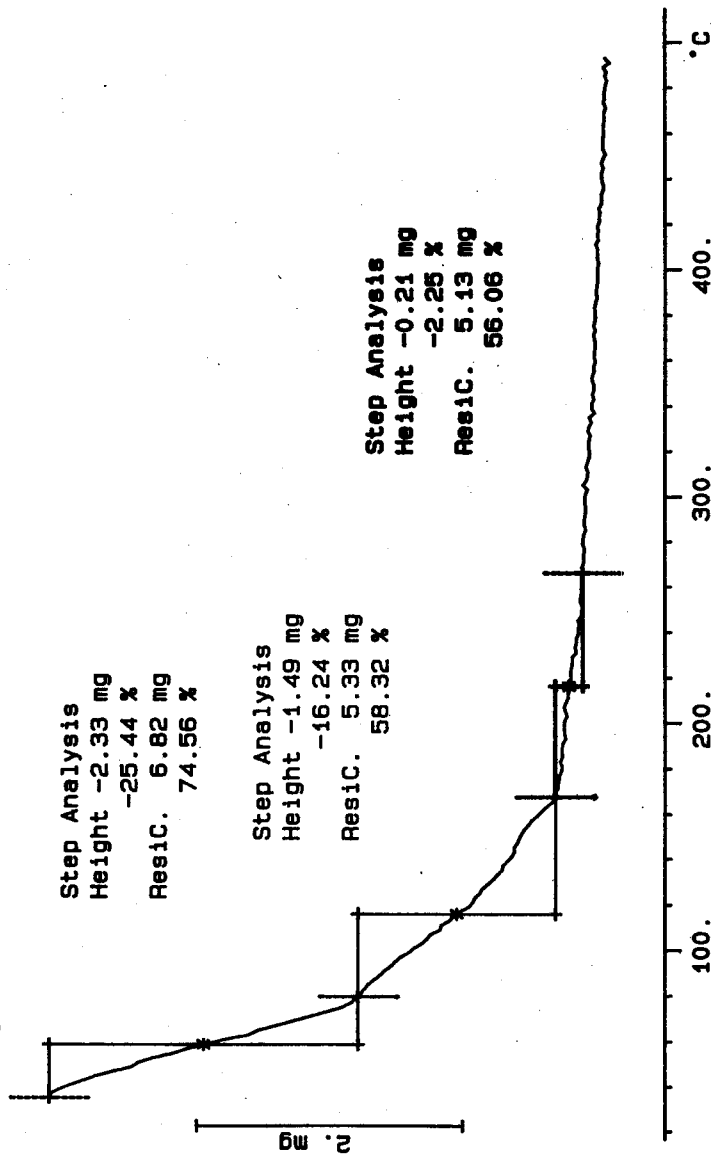
S96T002755 SAM N2

9.148 mg

Rate: 10.0 °C/min

File: 00057.001 TG METTLER 01-Jun-96

Ident: 0.0 222-S Laboratory



S96T002755 DUP N2

32.474 mg

Rate: 10.0 °C/min

File: 00059.001 TG METTLER 01-Jun-86

Ident: 0.0 222-S Laboratory

Step Analysis

Height -7.77 mg

-23.93 %

ResidC. 24.70 mg

76.07 %

Step Analysis

Height -5.45 mg

-16.77 %

ResidC. 19.26 mg

59.30 %

Dpeak 141.0 °C

Step Analysis

Height -0.53 mg

-1.62 %

ResidC. 18.73 mg

57.68 %

5.0 mg

100. 200. 300. 400. °C

LABCORE Data Entry Template for Worklist#

9385

Analyst: SMF **Instrument:** TGA0 1 **Book #** 821287

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

Worklist Comment: U-102 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.2</u>	<u>58.54</u>	<u>N/A</u>	%
96000536	U-102	2 SAMPLE	S96T002500	0	TGA-01	SOLID	<u>N/A</u>	<u>15.72</u>		%
96000536	U-102	3 DUP	S96T002500	0	TGA-01	SOLID	<u>15.72</u>	<u>16.48</u>	<u>N/A</u>	%
96000536	U-102	4 SAMPLE	S96T002501	0	TGA-01	SOLID	<u>N/A</u>	<u>17.19</u>		%
96000536	U-102	5 DUP	S96T002501	0	TGA-01	SOLID	<u>17.18</u>	<u>17.11</u>	<u>N/A</u>	%

Final page for worklist # 9385

Lusie M. Dalton 6-1-96
Analyst Signature **Date**

R. H. H. 6-4-96
Analyst Signature **Date**

Validated by H Anastos 6/4/96

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 206 TO 210.

TGA STD 82N8A

20.183 mg

Rate: 10.0 °C/min

File: 00061.001

TG METTLER 01-Jun-96

Ident: 0.0

222-S Laboratory

Step Analysis

Height-11.82 mg

-58.54 %

Resid. 8.37 mg

41.46 %

Dpeak 91.7 °C

5. mg

206. *Signature* 6-1-96

150.

100.

50.

S96T002500 N2

46.233 mg

Rate: 10.0 °C/min

File: 00062.001 TG METTLER 01-Jun-96

Ident: 0.0 222-S Laboratory

Step Analysis
Height -2.07 mg
-4.47 %
ResidC. 44.17 mg
95.53 %

Step Analysis
Height -5.20 mg
-11.25 %
ResidC. 38.97 mg
84.28 %
Dpeak 147.0 °C

Step Analysis
Height -0.26 mg
-0.57 %
ResidC. 38.68 mg
83.66 %

Step Analysis
Height -0.36 mg
-0.77 %
ResidC. 38.16 mg
82.55 %

5. mg

100. 200. 300. 400. °C

S96T002500 DUP N2

29.742 mg

Rate: 10.0 °C/min

File: 00063.001

TG

METTLER

01-Jun-86

Ident: 0.0

222-S Laboratory

Step Analysis

Height -1.73 mg

-5.83 %

ResidC. 28.01 mg

94.17 %

Step Analysis

Height -3.17 mg

-10.65 %

ResidC. 24.84 mg

83.52 %

Dpeak 137.0 °C

Step Analysis

Height -0.16 mg

-0.55 %

ResidC. 24.64 mg

82.84 %

Step Analysis

Height -0.15 mg

-0.51 %

ResidC. 24.35 mg

81.89 %

2. mg

100.

200.

300.

400.

°C

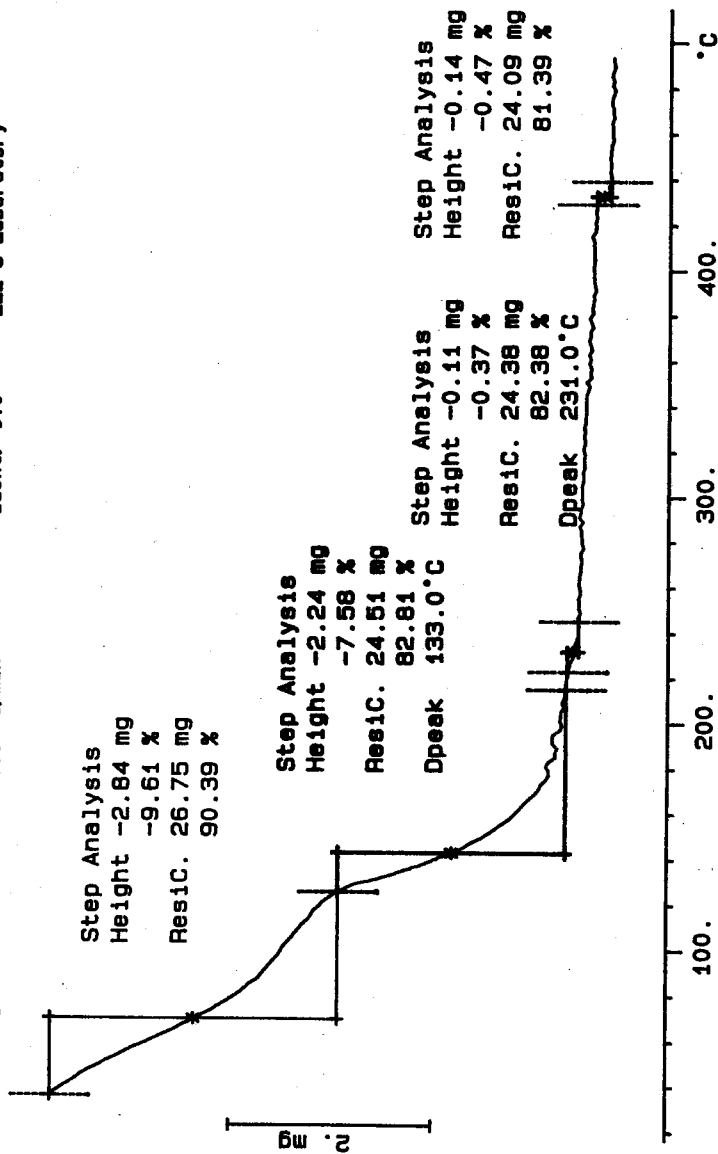
S96T002501 N2

29.595 mg

Rate: 10.0 °C/min

File: 00064.001 T6 METTLER 01-JUN-98

Ident: 0.0 222-S Laboratory

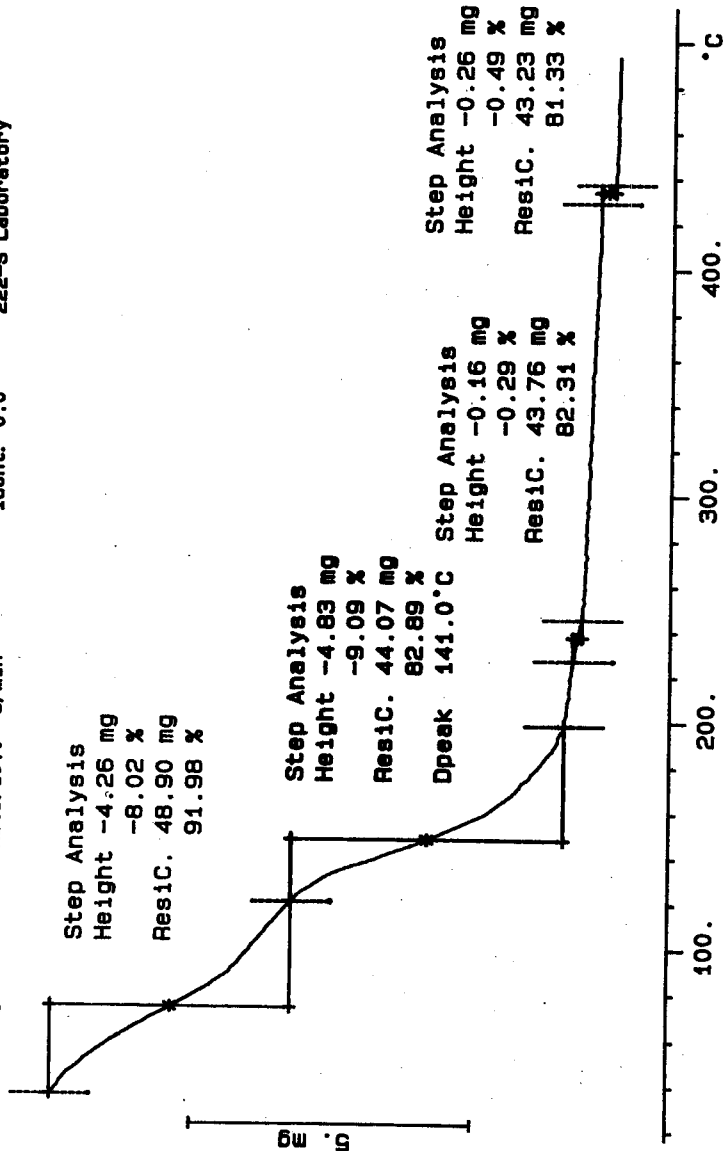


S96T002501 DUP N2

53.160 mg

Rate: 10.0 °C/min

File: 00065.001 TG METTLER 01-Jun-96
 Ident: 0.0 222-S Laboratory



LABCORE Data Entry Template for Worklist#

9389

Analyst: SMF Instrument: TGA0 1 Book # 82N8A

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

Worklist Comment: U-102 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.2</u>	<u>58.54</u>	<u>N/A</u>	<u>*</u>
96000536	U-102	2 SAMPLE	S96T002326	0	TGA-01	SOLID	<u>N/A</u>	<u>41.5</u>		<u>*</u>
96000536	U-102	3 DUP	S96T002326	0	TGA-01	SOLID	<u>41.5</u>	<u>40.3</u>	<u>N/A</u>	<u>*</u>

Final page for worklist # 9389

Susie M. Fulton 6-1-96
Analyst Signature Date

RH 6-4-96
Analyst Signature Date

Validated by HAnastro 6/4/96

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 212 TO 214.

TGA STD 82N8A

20.183 mg

Rate: 10.0 °C/min

File: 00061.001

TG

METTLER

01-Jun-98

Ident: 0.0 222-8 Laboratory

Step Analysis
Height-11.82 mg
-58.54 %
ResidC. 8.37 mg
41.46 %
Dpeak 91.7 °C

5. mg

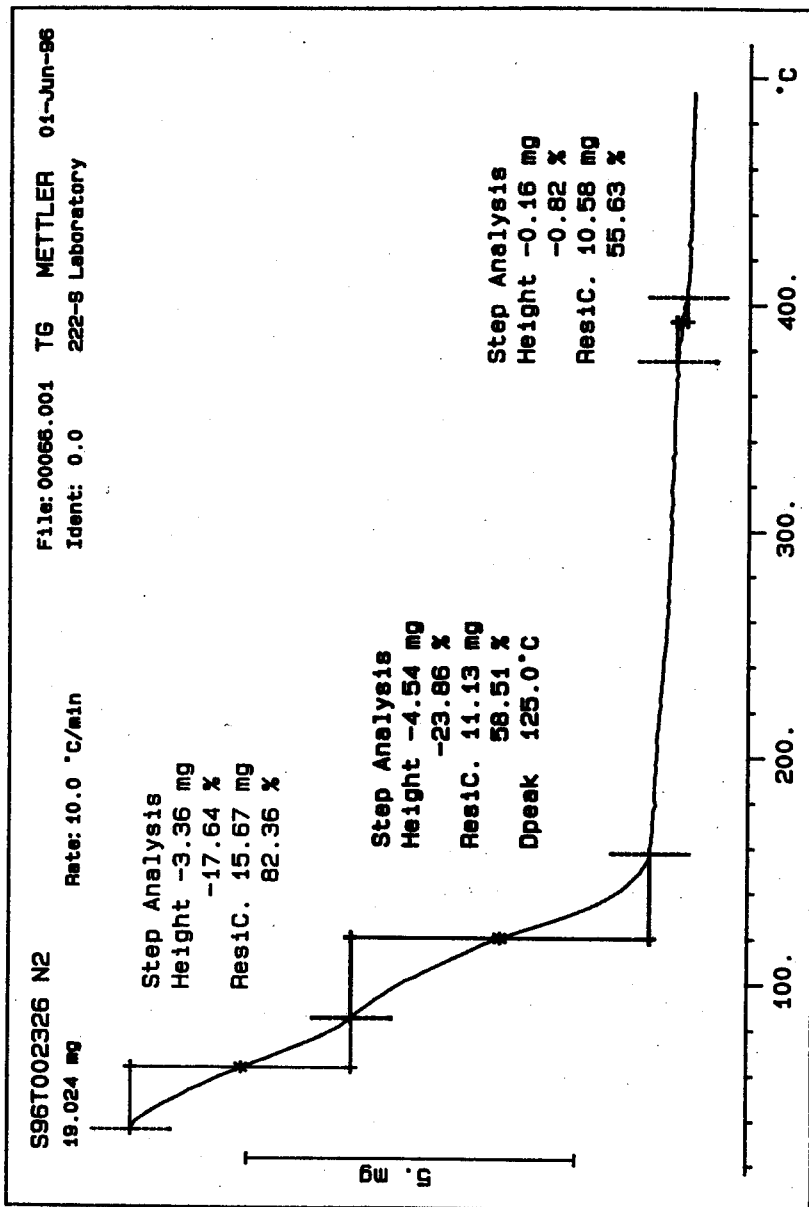
50.

100.

150.

°C

*Sur 209.7
6-1-98*



S96T002326 DUP N2

21.408 mg

Rate: 10.0 °C/min

File: 00067.001 TG METTLER 01-Jun-96

Ident: 0.0 222-S Laboratory

Step Analysis

Height -3.09 mg

-14.45 %

ResidC. 18.31 mg

85.55 %

Step Analysis

Height -5.53 mg

-25.85 %

ResidC. 12.78 mg

59.70 %

Dpeak 137.0 °C

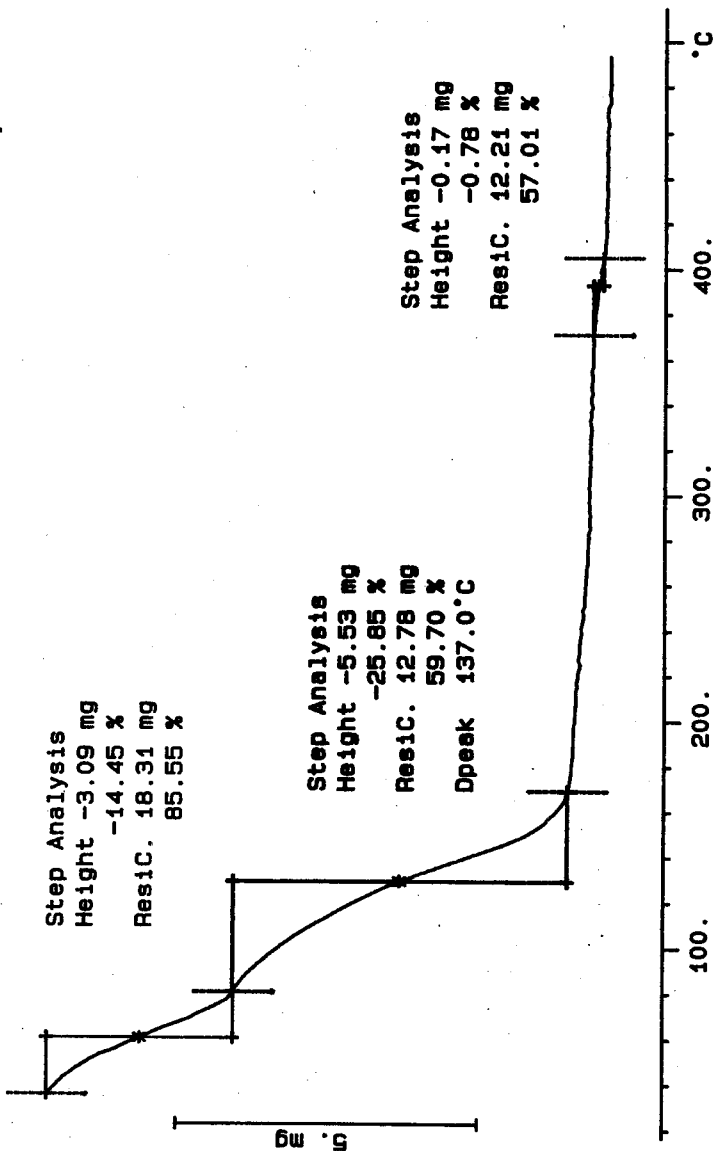
Step Analysis

Height -0.17 mg

-0.78 %

ResidC. 12.21 mg

57.01 %



LABCORE Data Entry Template for Worklist#

9530

Analyst: DCD Instrument: TGA0 1 Book # B2N8A

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

Worklist Comment: U-102 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	LIGUID	<u>59.2</u>	<u>58.24</u>	<u>*</u>	N/A %
96000569	U-102	2 SAMPLE	S96T002549 0		TGA-01	LIGUID	<u>N/A</u>	<u>52.29</u>		%
96000569	U-102	3 DUP	S96T002549 0		TGA-01	LIGUID	<u>52.29</u>	<u>40.23</u>		N/A %
96000569	U-102	4 SAMPLE	S96T002762 0		TGA-01	LIGUID	<u>N/A</u>	<u>99.03</u>		%
96000569	U-102	5 DUP	S96T002762 0		TGA-01	LIGUID	<u>99.03</u>	<u>99.87</u>		N/A %

Final page for worklist #

9530

David C. Durham 6-5-96
Analyst Signature Date

7/1/96 6-5-96
Analyst Signature Date

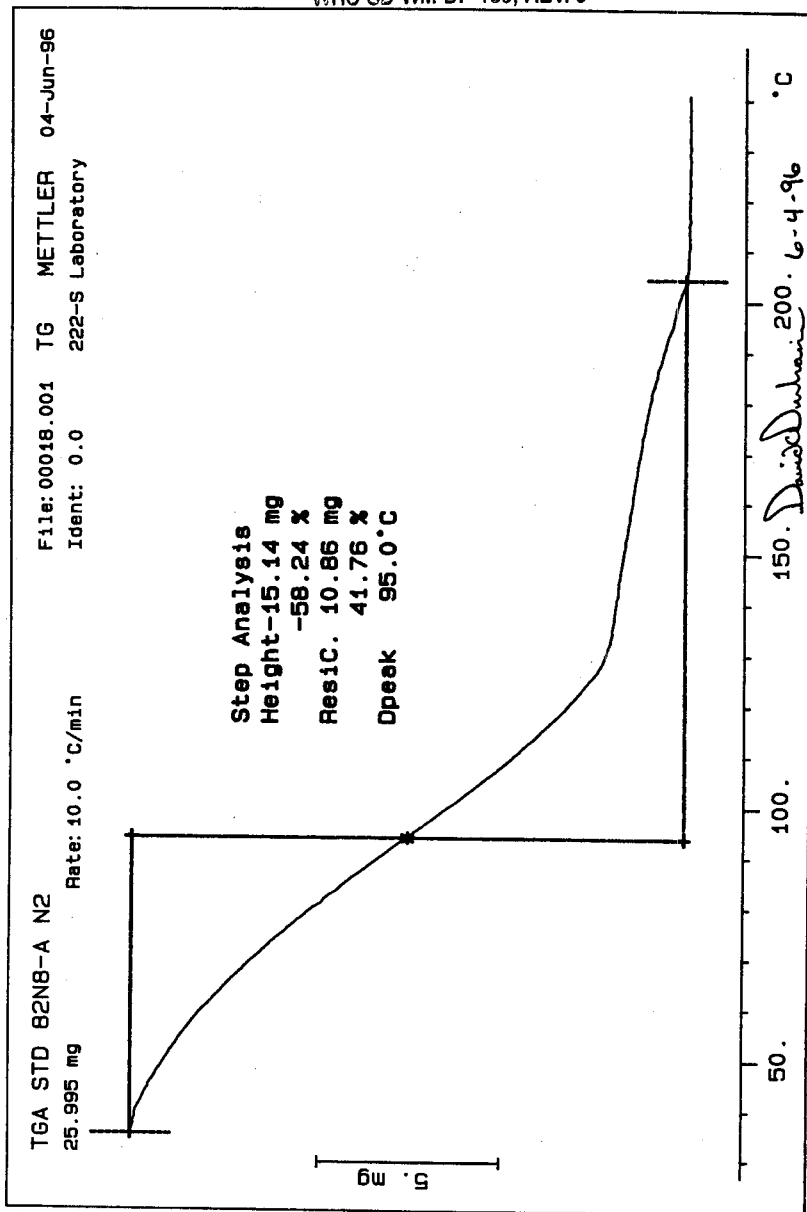
Validated by A Anastas 6-6-96

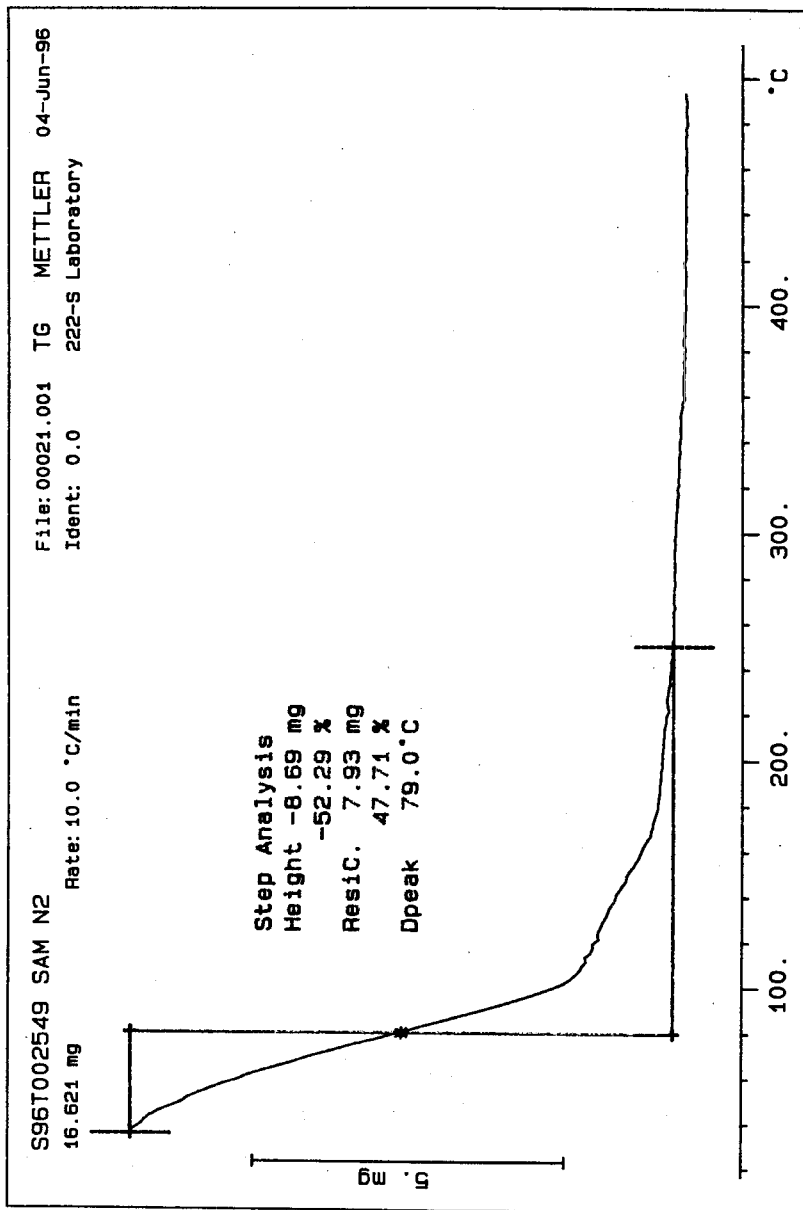
15024

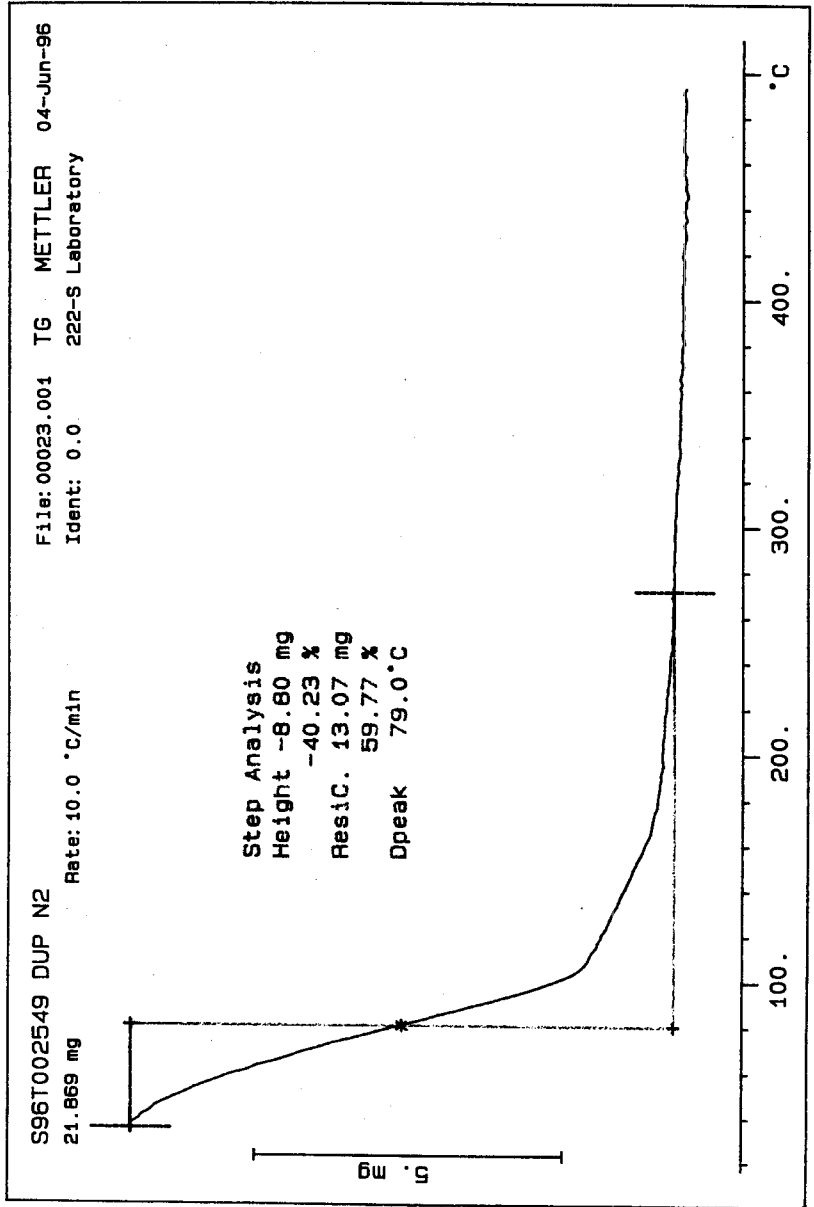
Data Entry Comments:

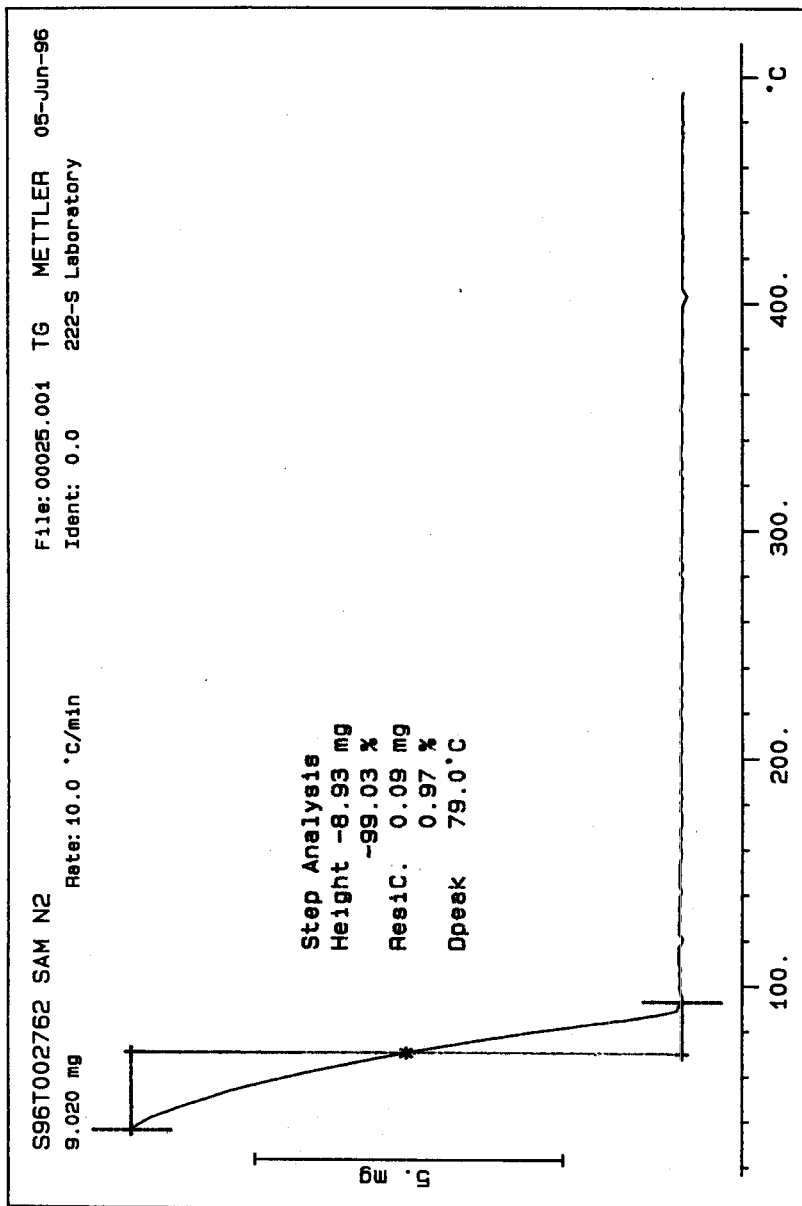
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 214 TO 220









S96T002762 DUP N2

19.459 mg

Rate: 10.0 °C/min

File: 00027.001 TG METTLER 05-Jun-96

Ident: 0.0 222-S Laboratory

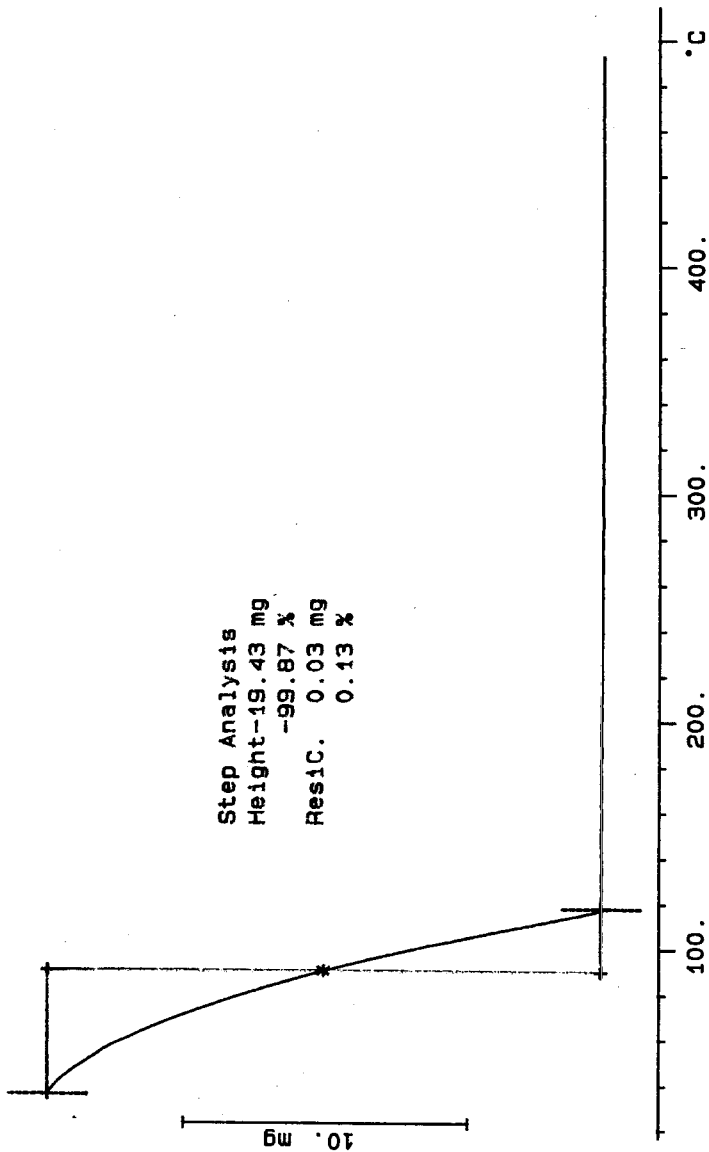
Step Analysis

Height-19.43 mg

-99.87 %

ResidC. 0.03 mg

0.13 %



LABCORE Data Entry Template for Worklist#

9531

Analyst: DCD Instrument: TGA0 1 Book # 82N8A

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

Worklist Comment: U-102 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>28.45</u>	<u>58.23</u>	N/A	X
96000569	U-102	2 SAMPLE	S96T002632	0	TGA-01	SOLID	N/A	<u>40.77</u>		X
96000569	U-102	3 DUP	S96T002632	0	TGA-01	SOLID	<u>40.77</u>	<u>38.20</u>	N/A	X
96000569	U-102	4 SAMPLE	S96T002633	0	TGA-01	SOLID	N/A	<u>33.61</u>		X
96000569	U-102	5 DUP	S96T002633	0	TGA-01	SOLID	<u>33.61</u>	<u>33.85</u>	N/A	X

Final page for worklist # 9531

Daniel C. Dunham 6-5-96
Analyst Signature Date

R. H. H. 6-11-96
Analyst Signature Date

Verified/Validated by
Blandina
Valenzuela 6-12-96

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 222 TO 222

TGA STD 82NB-A N2

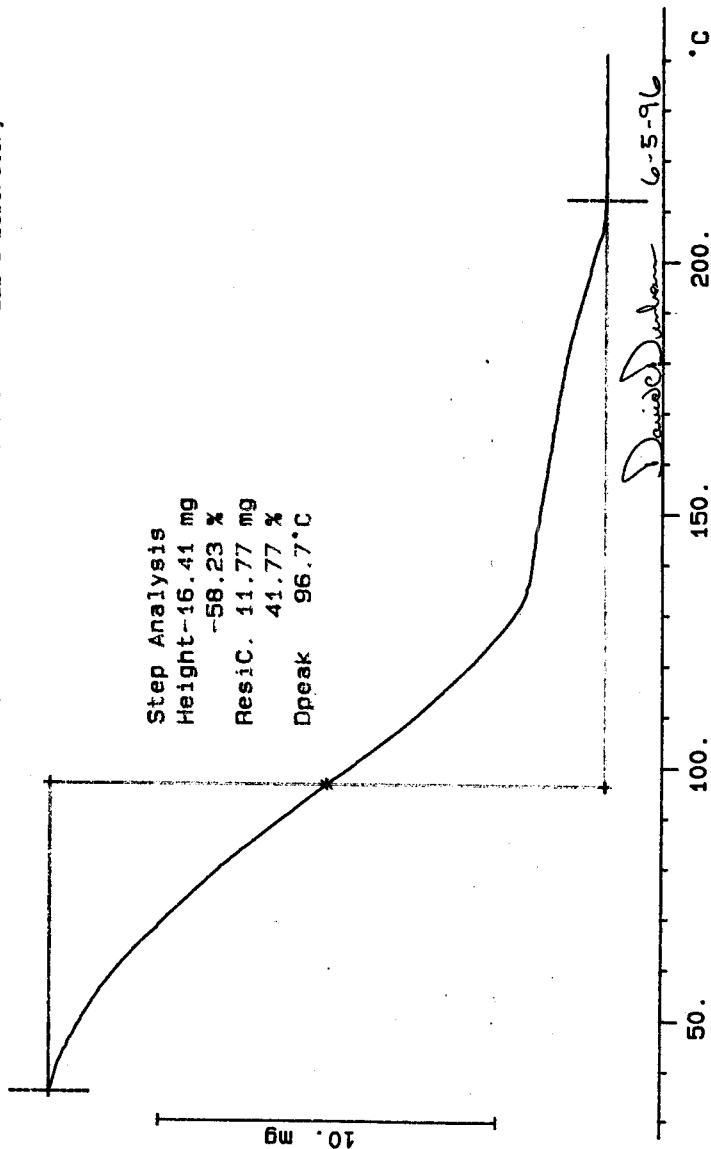
28.175 mg

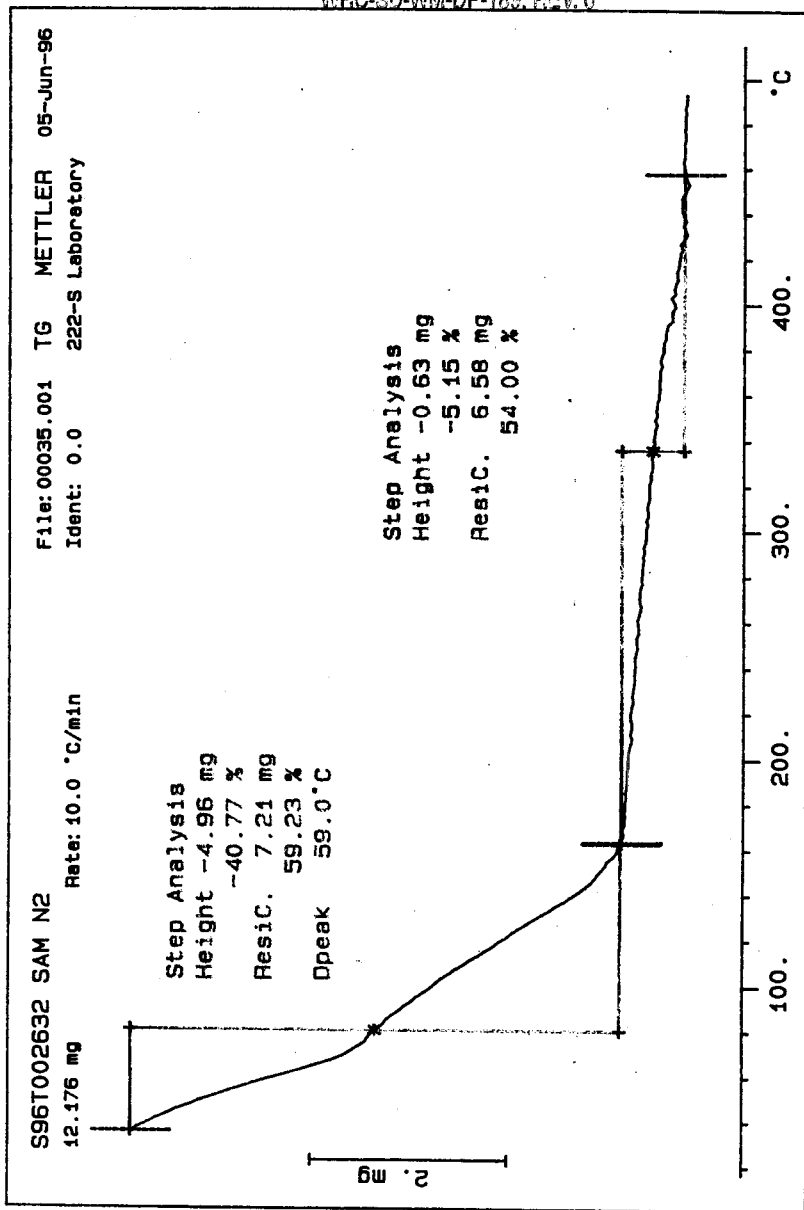
Rate: 10.0 °C/min

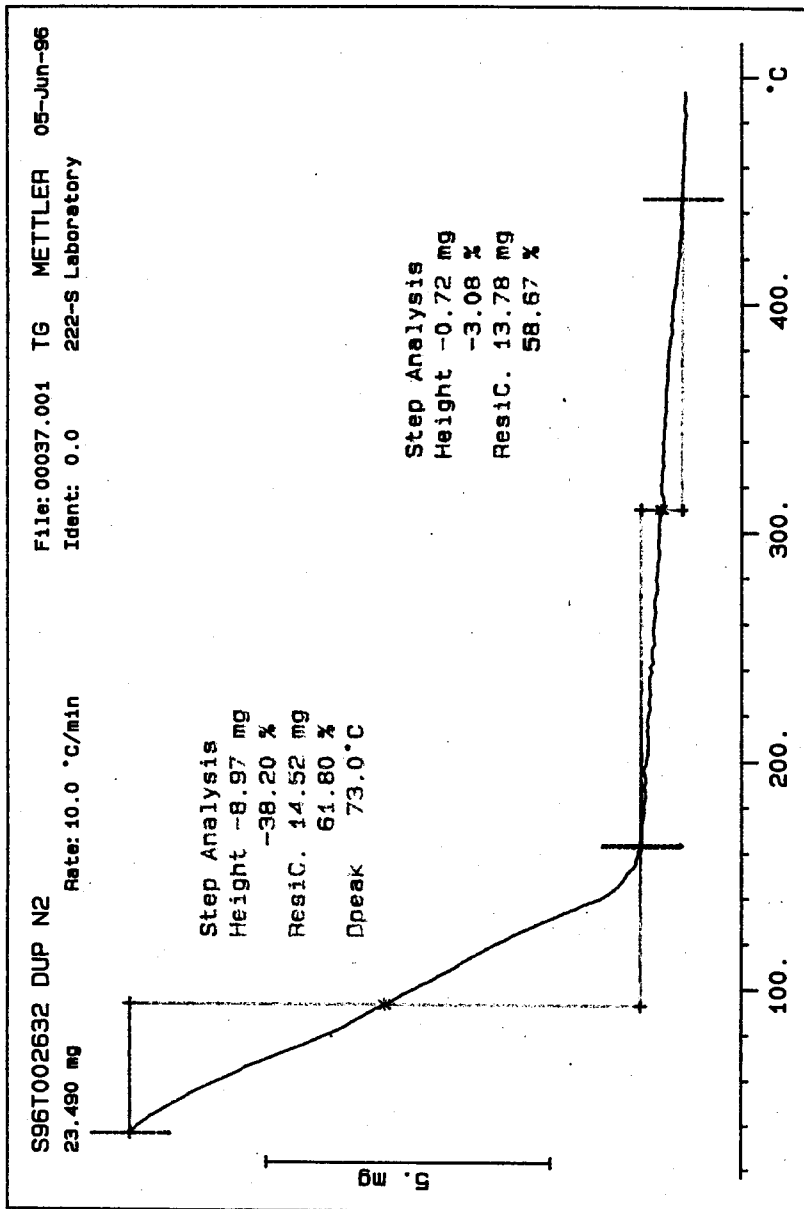
File: 00031.001 TG METTLER 05-Jun-96

Ident: 0.0 222-S Laboratory

Step Analysis
Height-16.41 mg
-58.23 %
Resid. 11.77 mg
41.77 %
Dpeak 96.7°C







S96T002633 SAM N2

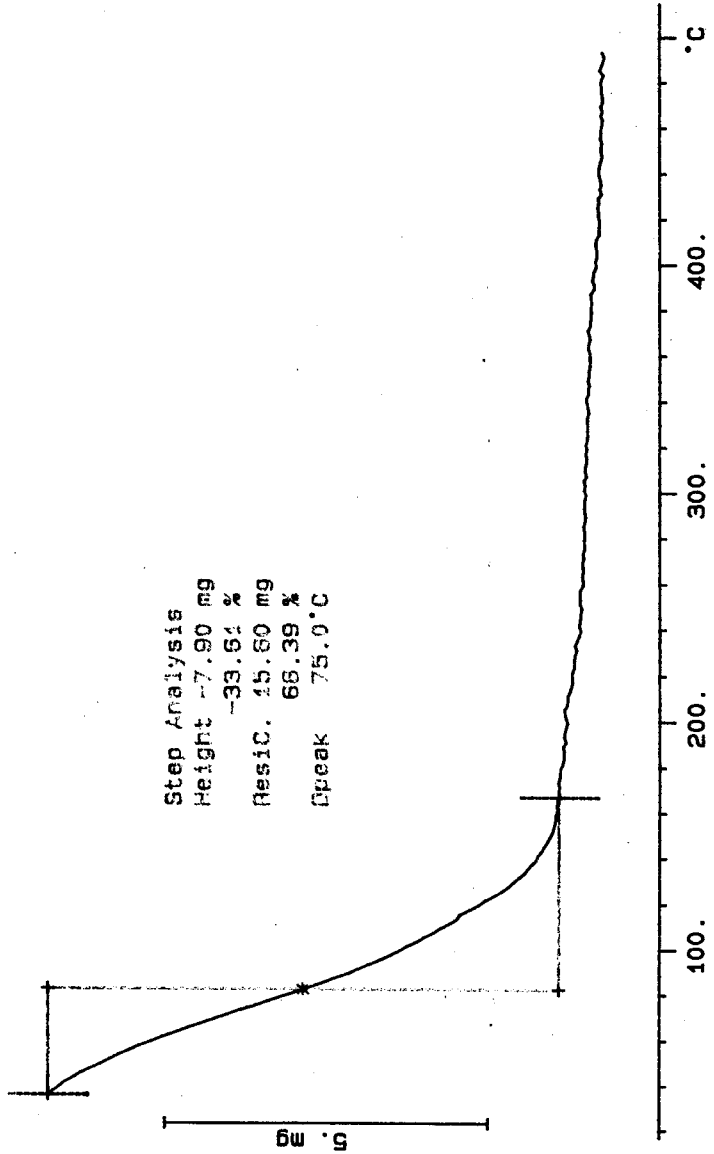
23.497 mg

Rate: 10.0 °C/min

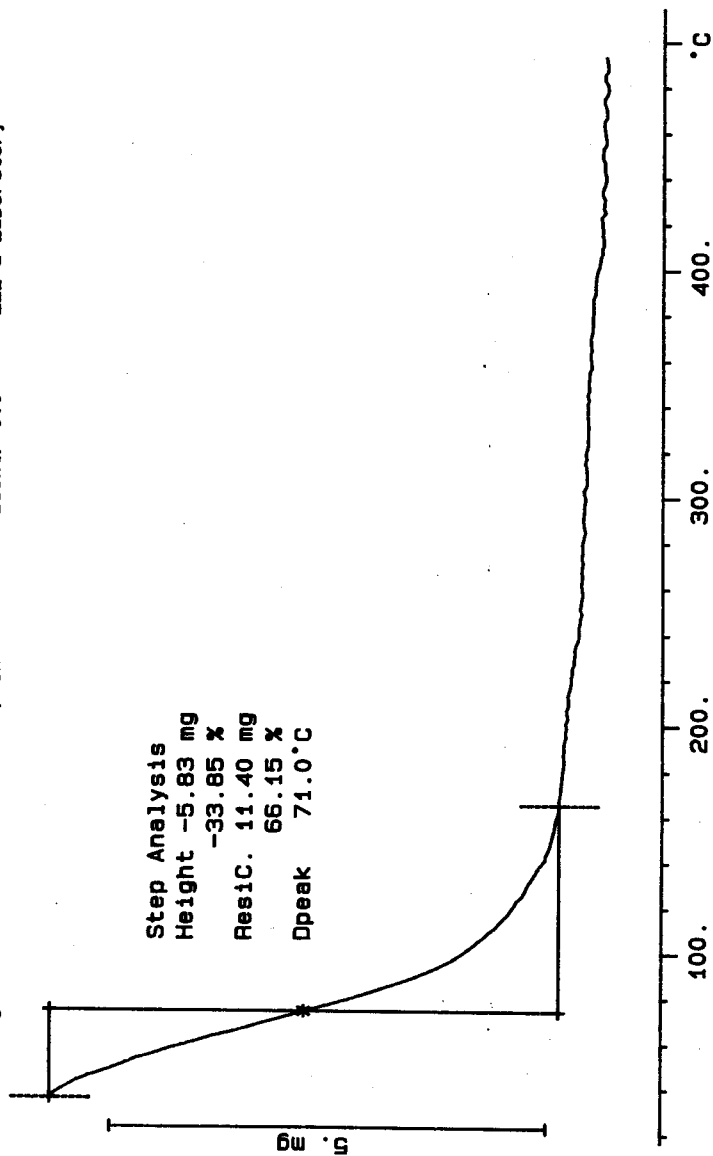
File: 00039.001 TG METTLER 05-Jun-96

Ident: 0.0 222-S Laboratory

Step Analysis
 Height -7.90 mg
 -33.61 %
 Resid. 15.60 mg
 66.39 %
 Dpeak 75.0 °C



S96T002633 DUP N2
17.234 mg
Rate: 10.0 °C/min
File: 00041.001 TG METTLER 06-Jun-96
Ident: 0.0 222-S Laboratory



WHC-SD-WM-DP-189, REV. 0
LABCORE Data Entry Template for Worklist#

9532

Analyst: DCD Instrument: TGA0 3 Book # 82N8A

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

Worklist Comment: U-102 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	58.80*	N/A	%
96000569	U-102	2 SAMPLE	S96T002636	0	TGA-03	SOLID	N/A	37.05	11.72	%
96000569	U-102	3 DUP	S96T002636	0	TGA-03	SOLID	37.05	37.05	N/A	%
96000569	U-102	4 SAMPLE	S96T002646	0	TGA-03	SOLID	N/A	38.93		%
96000569	U-102	5 DUP	S96T002646	0	TGA-03	SOLID	38.93	12.51	N/A	%

Final page for worklist #

9532

See attached for signatures
Analyst Signature DCD Date 6-11-96

R. Jones 6-12-96
Analyst Signature Date

Verified/Validated by
Blandina Valenzuela 6/13/96

~~S96T002636 will be run in replicate due to the large difference in the results (hi RPD's)~~ 6-27-96

Data Entry Comments: ~~S96T002646 will be run in replicate due to hi RPD's~~ 6-27-96

LABCORE Data Entry Template for Worklist#

9532

Analyst: DcD Instrument: TGA0 Book # BLN8A

Method: LA-560-112 Rev/Mod _____

Worklist Comment: U-102 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	%
96000569	U-102	2 SAMPLE	S96T002636	0	TGA-01	SOLID	N/A			%
96000569	U-102	3 DUP	S96T002636	0	TGA-01	SOLID			N/A	%
96000569	U-102	4 SAMPLE	S96T002646	0	TGA-01	SOLID	N/A			%
96000569	U-102	5 DUP	S96T002646	0	TGA-01	SOLID			N/A	%

Final page for worklist # 9532

Diana Duh 6-6-96
Analyst Signature Date

Analyst Signature Date

TGA
DSC-03 instrument
was used.
6/11/96
RCJ

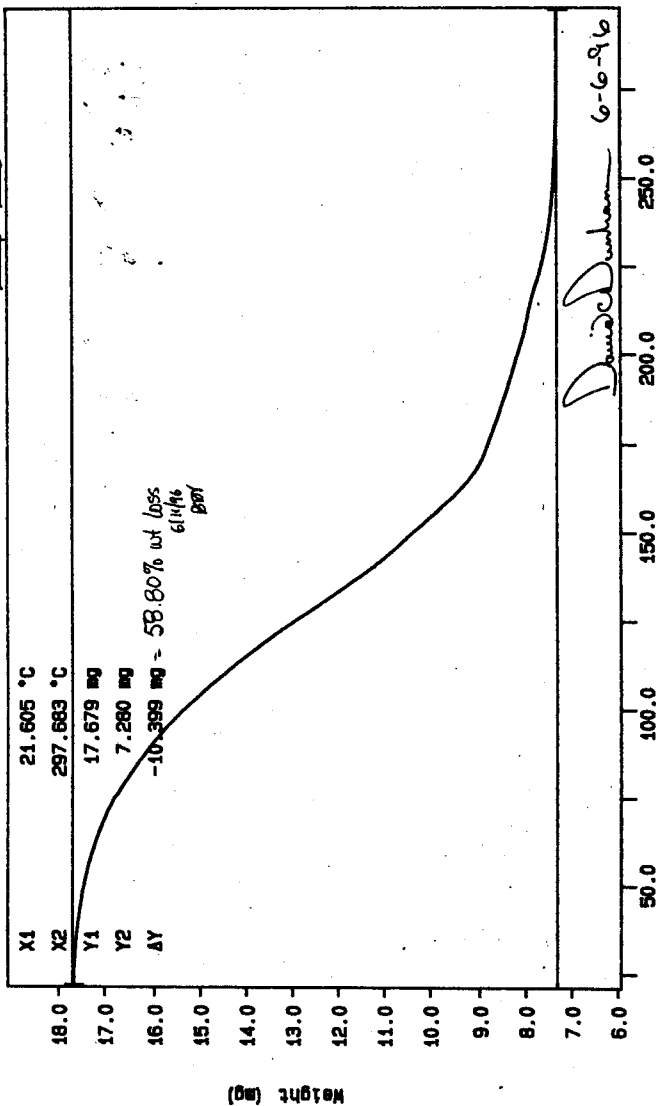
6/11/96
Blandina
Valenzuela

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.

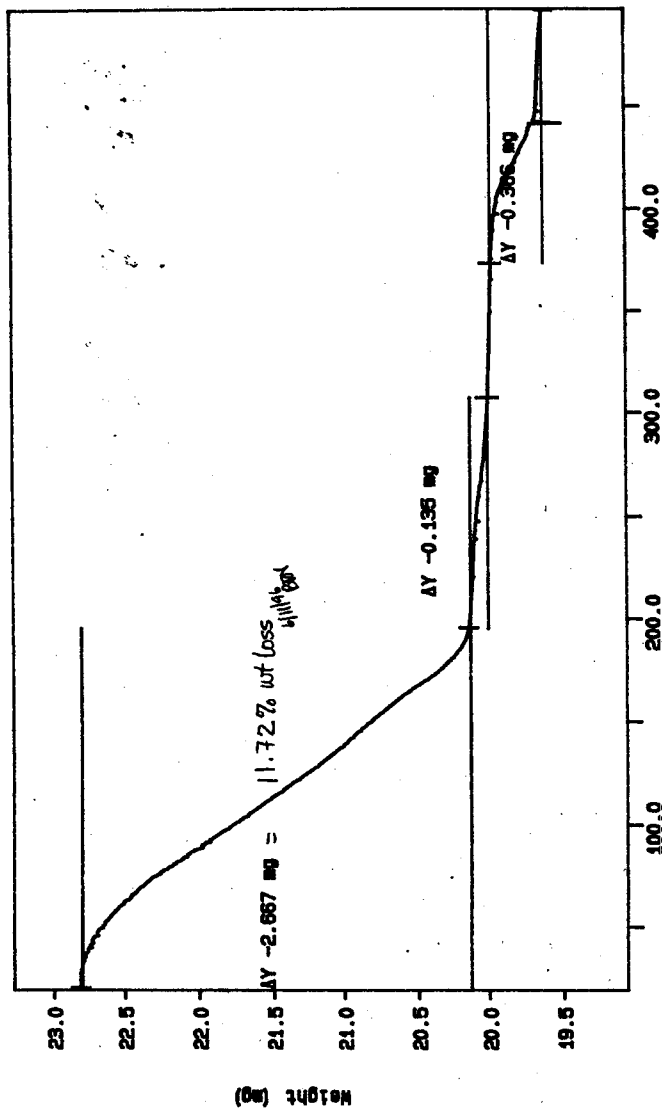
Curve 1: TGA
File Info: T6060601 Thu Jun 6 20:48:00 1996
Sample Weight: 17.685 mg
TGA STD 82N8-A

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 229 TO 233



N2 10C/MIN
TEMP: 25.8 °C
TIME: 55.8 s
TGA: 25.8 s
DC Dunham
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Jun 6 20:49:49 1996

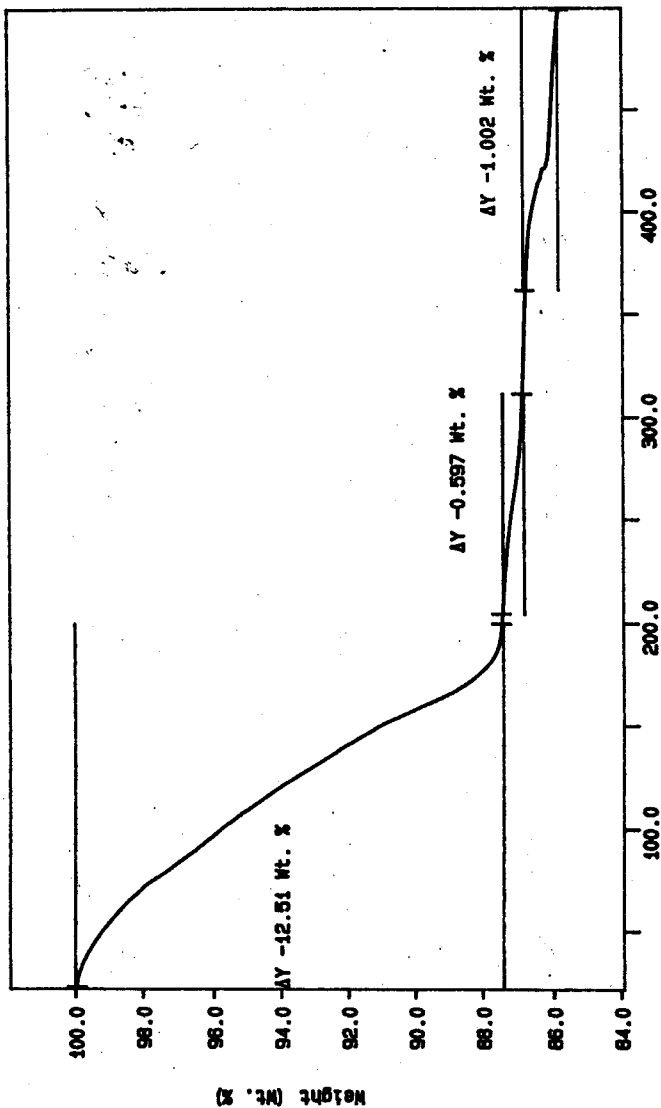
Curve 1: TGA
 File Info: SAM0603 Thu Jun 8 18:07:24 1996
 Sample Weight: 22.765 mg
 S95T002636 SAM



DC Duhan
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Tue Jun 11 13:51:52 1996

10C/MIN N2
 0.0 min RATE: 10.0 C/min
 0.0 min RATE: 10.0 C/min

Curve 1: TGA
 File Info: SAM080604 Thu Jun 6 22:00:58 1996
 Sample Weight: 22.373 mg
 896T002638 DUP

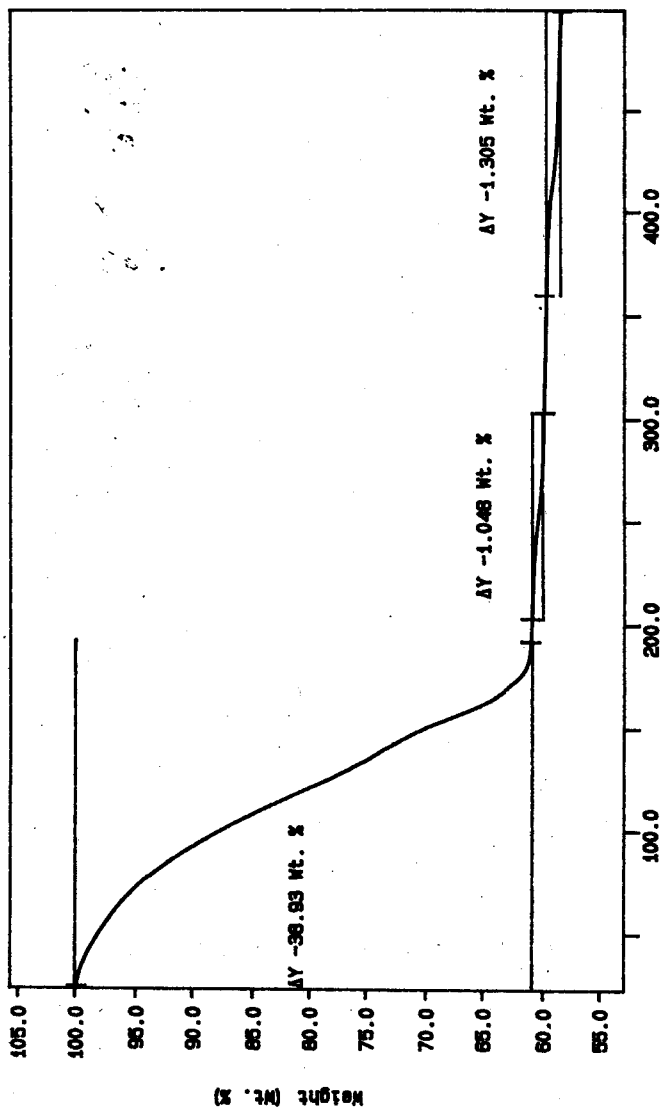


DC Dunham
 PEKIN-ELMER
 7 Series Thermal Analysis System
 Tue Jun 11 13:52:35 1996

100%/MIN N2
 RATE 0.0 min RATE 10.0 °C/min

TIME 8
 896T002638 DUP

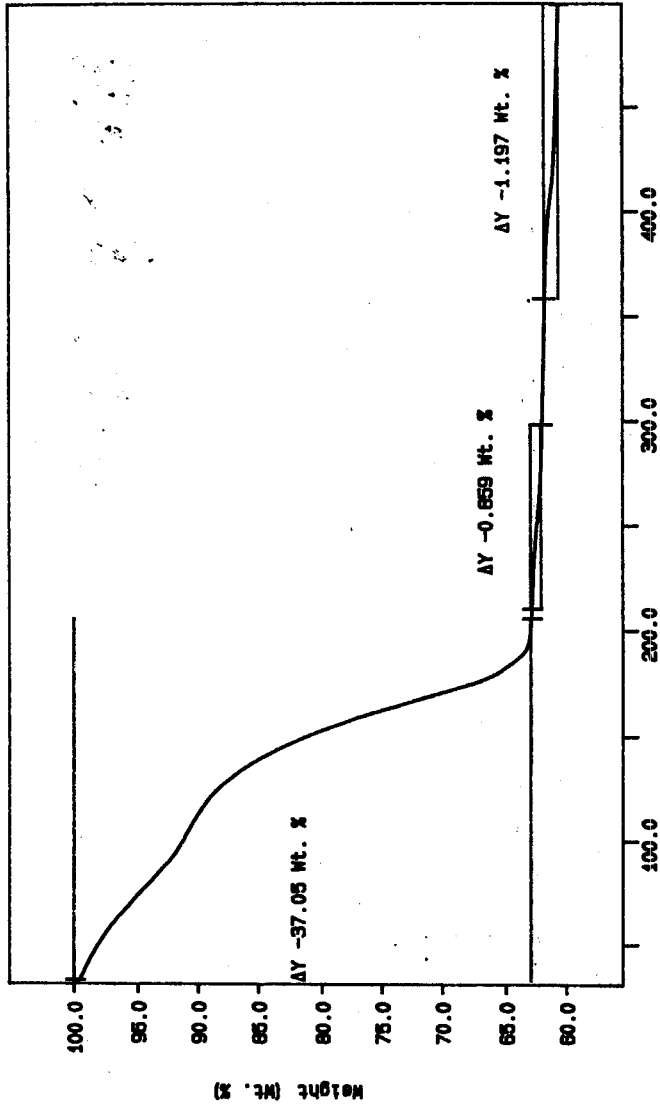
Curve 1: TGA
 File Info: SAM060605 Fri Jun 7 01:27:53 1996
 Sample Weight: 14.804 mg
 996T002646 SAM



DC Dunham
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Tue Jun 11 14:04:55 1996

10C/MIN N2
 0.0 min RATE: 10.0 C/min
 0.0 min RATE: 10.0 C/min

Curve 1: TBA
 File Info: SAN060606 Fri Jun 7 04:42:17 1996
 Sample Weight: 27.185 mg
 986T002646 DUP



DC Dunham
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Tue Jun 11 14:11:11 1996

10C/MIN N2
 THERM 25.8 8
 TIME 0.0 min RATE 10.0 C/min

LABCORE Data Entry Template for Worklist#

9533

Analyst: Ded Instrument: TGA0 1 Book # 82N8A

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

Worklist Comment: U-102 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.2</u>	<u>58.23*</u>	<u>N/A</u>	<u>X</u>
96000569	U-102	2 SAMPLE	S96T002647 0		TGA-01	SOLID	<u>N/A</u>	<u>7.68</u>		<u>X</u>
96000569	U-102	3 DUP	S96T002647 0		TGA-01	SOLID	<u>7.68</u>	<u>10.46</u>	<u>N/A</u>	<u>X</u>
96000569	U-102	4 SAMPLE	S96T002775 0		TGA-01	SOLID	<u>N/A</u>	<u>24.47</u>		<u>X</u>
96000569	U-102	5 DUP	S96T002775 0		TGA-01	SOLID	<u>24.47</u>	<u>20.10</u>	<u>N/A</u>	<u>X</u>

Final page for worklist # 9533

Daniel D. Dunbar 6-6-96
Analyst Signature Date

Attah 6-11-96
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 235 TO 239.

TGA STD 82N8-A N2

28.175 mg

Rate: 10.0 °C/min

File: 00031.001

TG

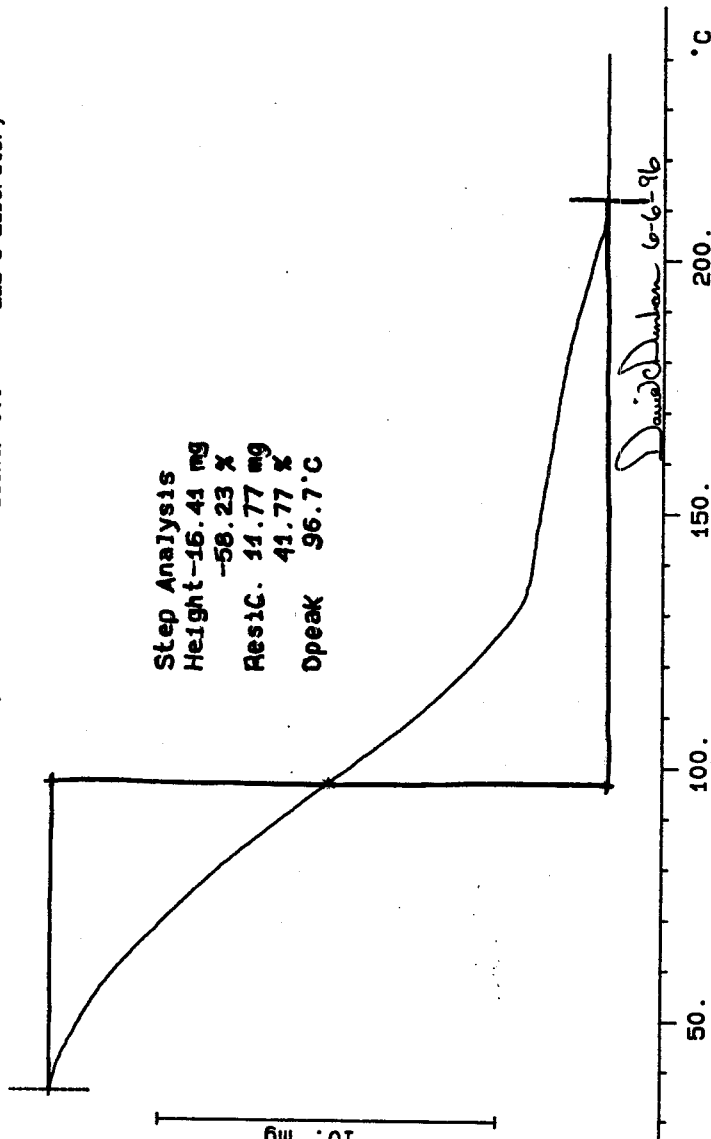
222-S Laboratory

Ident: 0.0

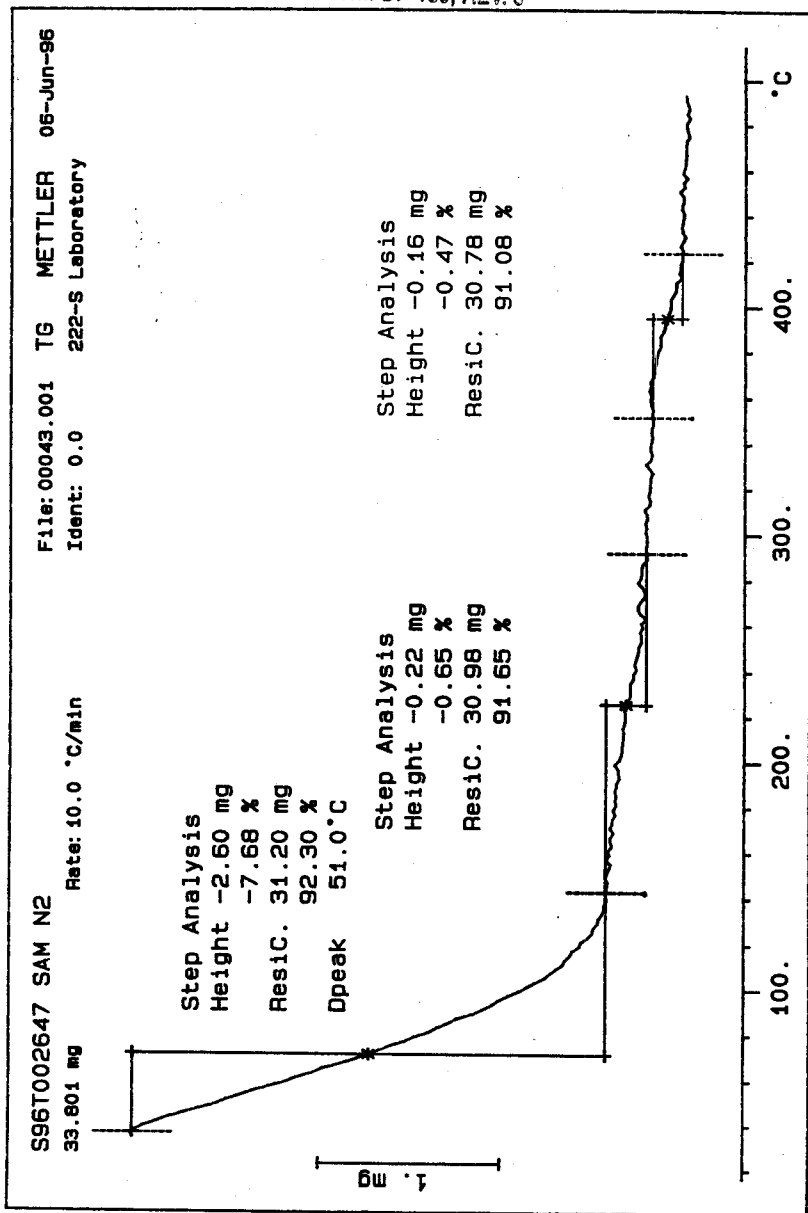
05-Jun-96

10. mg

Step Analysis
Height -16.41 mg
-58.23 %
ResidC. 11.77 mg
41.77 %
Dpeak 96.7 °C



David Dunbar 6-6-96



S96T002647 DUP N2

33.692 mg

Rate: 10.0 °C/min

File: 00045.001

Ident: 0.0

TG

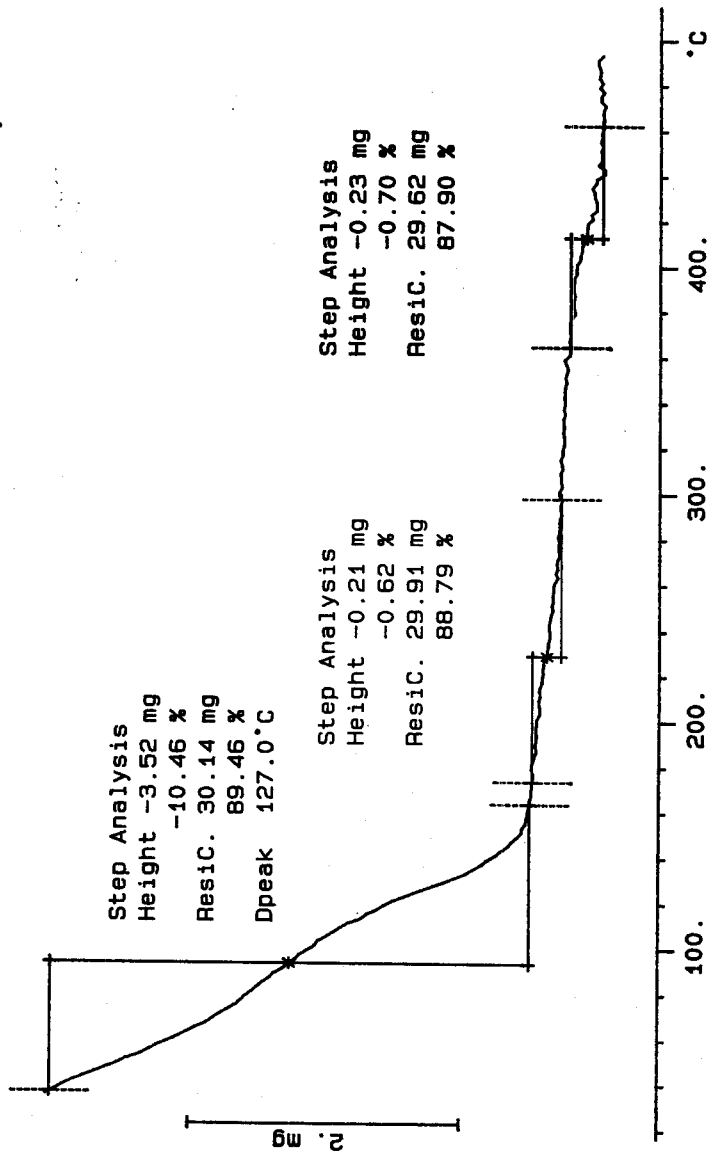
06-Jun-96

222-S Laboratory

Step Analysis
Height -3.52 mg
-10.46 %
Resic. 30.14 mg
89.46 %
Dpeak 127.0 °C

Step Analysis
Height -0.21 mg
-0.62 %
Resic. 29.91 mg
88.79 %

Step Analysis
Height -0.23 mg
-0.70 %
Resic. 29.62 mg
87.90 %



S96T002775 SAM N2

9.183 mg

Rate: 10.0 °C/min

File: 00047.001 TG

METTLER

06-Jun-96

Ident: 0.0 222-S Laboratory

Step Analysis

Height -1.00 mg

-10.86 %

ResiC. 8.19 mg

89.14 %

Step Analysis

Height -1.25 mg

-13.61 %

ResiC. 6.94 mg

75.55 %

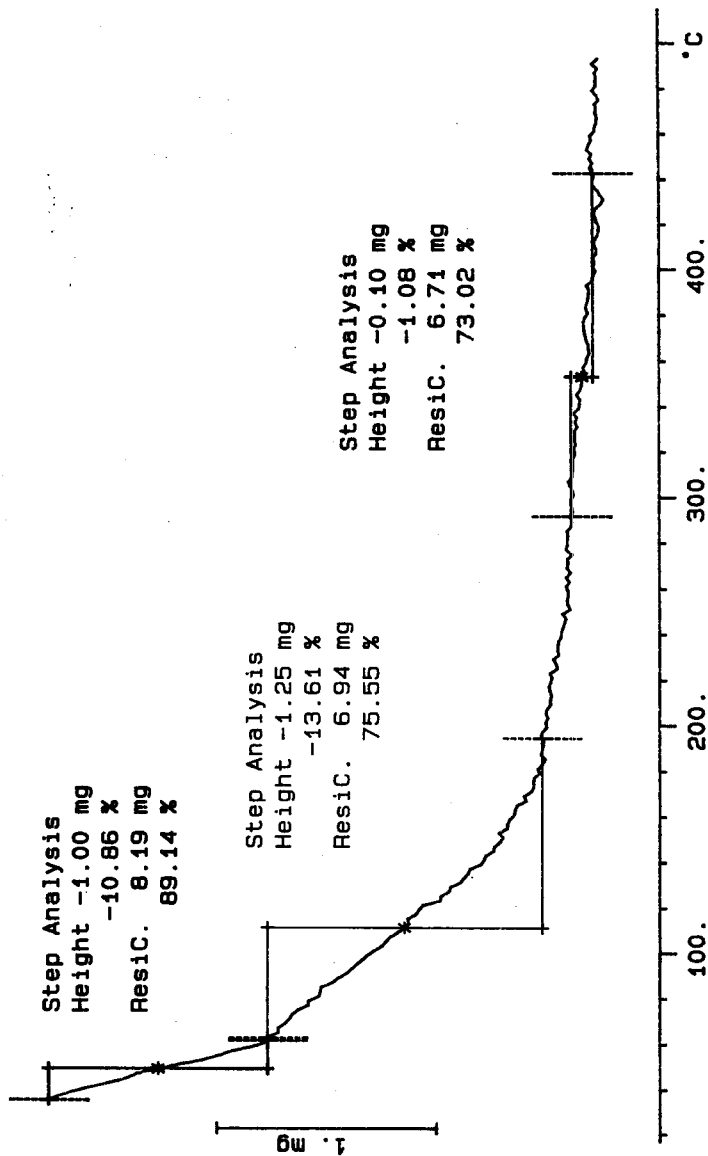
Step Analysis

Height -0.10 mg

-1.08 %

ResiC. 6.71 mg

73.02 %



S96T002775 DUP N2

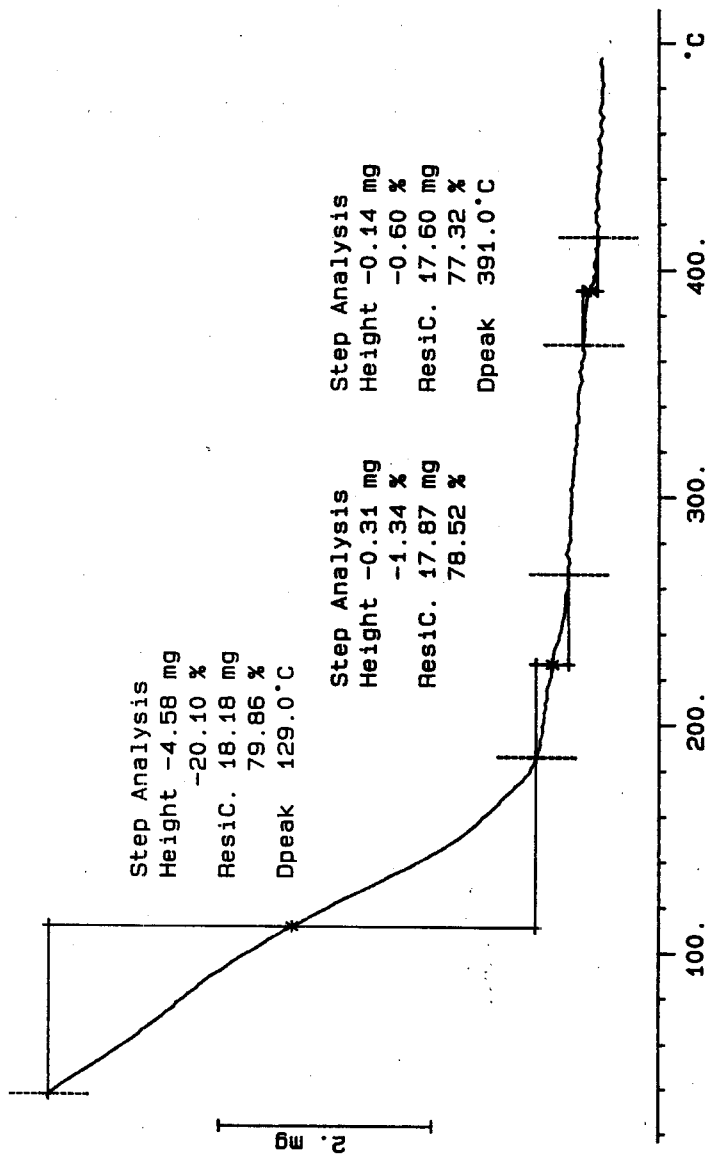
File: 00049.001 TG METTLER 06-Jun-96

22.765 mg

Rate: 10.0 °C/min

Ident: 0.0

222-S Laboratory



LABCORE Data Entry Template for Worklist#

9534

Analyst: DCD Instrument: TGA0 1 Book # B2NBA

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

Worklist Comment: U-102 TGA RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.2</u>	<u>58.66</u>	<u>N/A</u>	%
96000569	U-102	2 SAMPLE	S96T002776	0	TGA-01	SOLID	<u>N/A</u>	<u>30.1</u>		%
96000569	U-102	3 DUP	S96T002776	0	TGA-01	SOLID	<u>30.1</u>	<u>29.9</u>	<u>N/A</u>	%
96000569	U-102	4 SAMPLE	S96T002777	0	TGA-01	SOLID	<u>N/A</u>	<u>35.9</u>		%
96000569	U-102	5 DUP	S96T002777	0	TGA-01	SOLID	<u>35.9</u>	<u>33.7</u>	<u>N/A</u>	%

Final page for worklist #

9534

David C. D... 6-6-96
Analyst Signature Date

RCJ 6-17-96
Analyst Signature Date

Validated by Hanastis 6-19-96

S96T002776 has an ending limit of 420°C, the data could not be retrieved from the data disk to reintegrate. The results however should not differ more than 2% if the limit were placed at approximately 200°C.

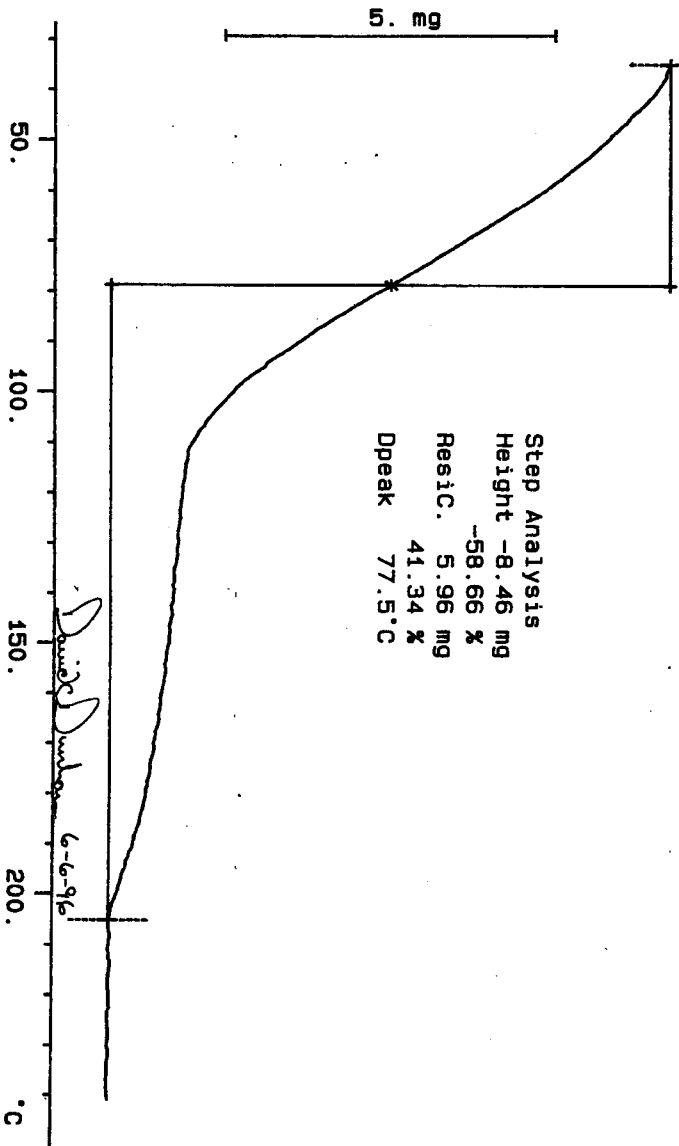
Data Entry Comments: S96T002777 has an ending limit of 420°C, the data could not be retrieved from the data disk to reintegrate. The results of the % moisture should not be different of more than 2%.

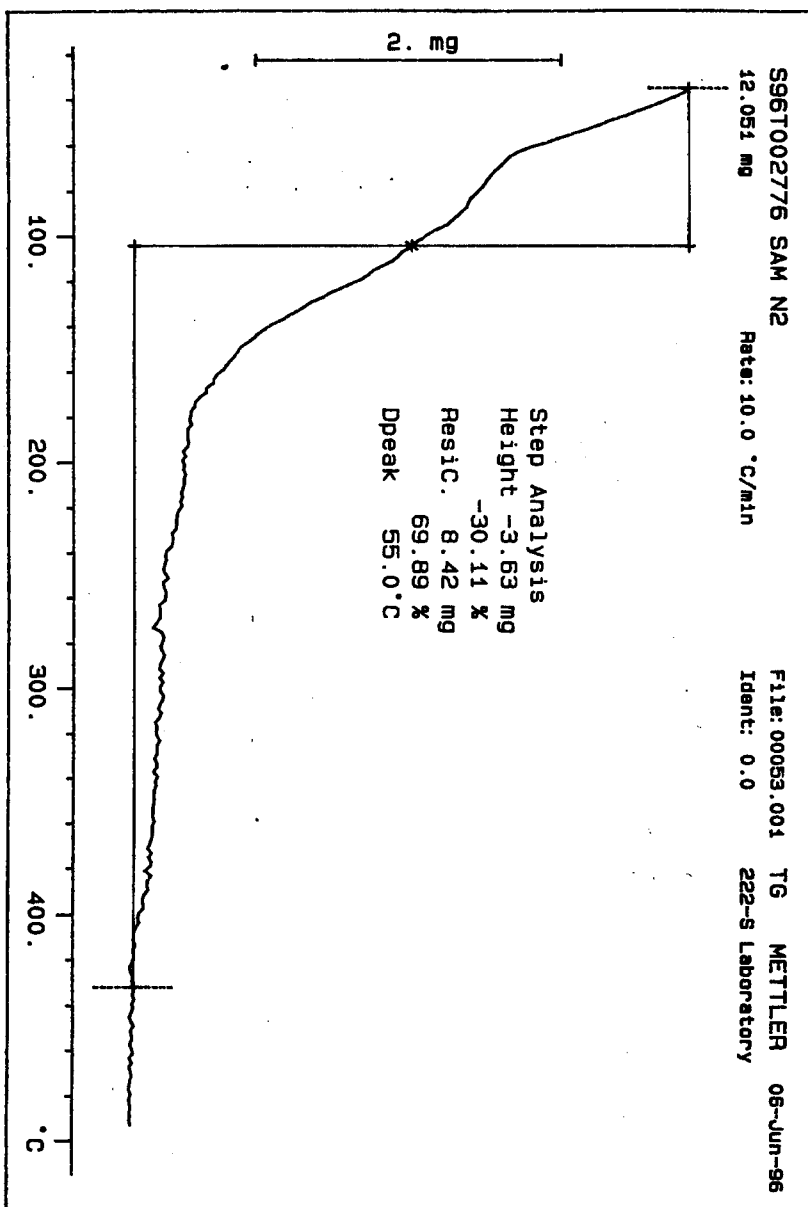
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

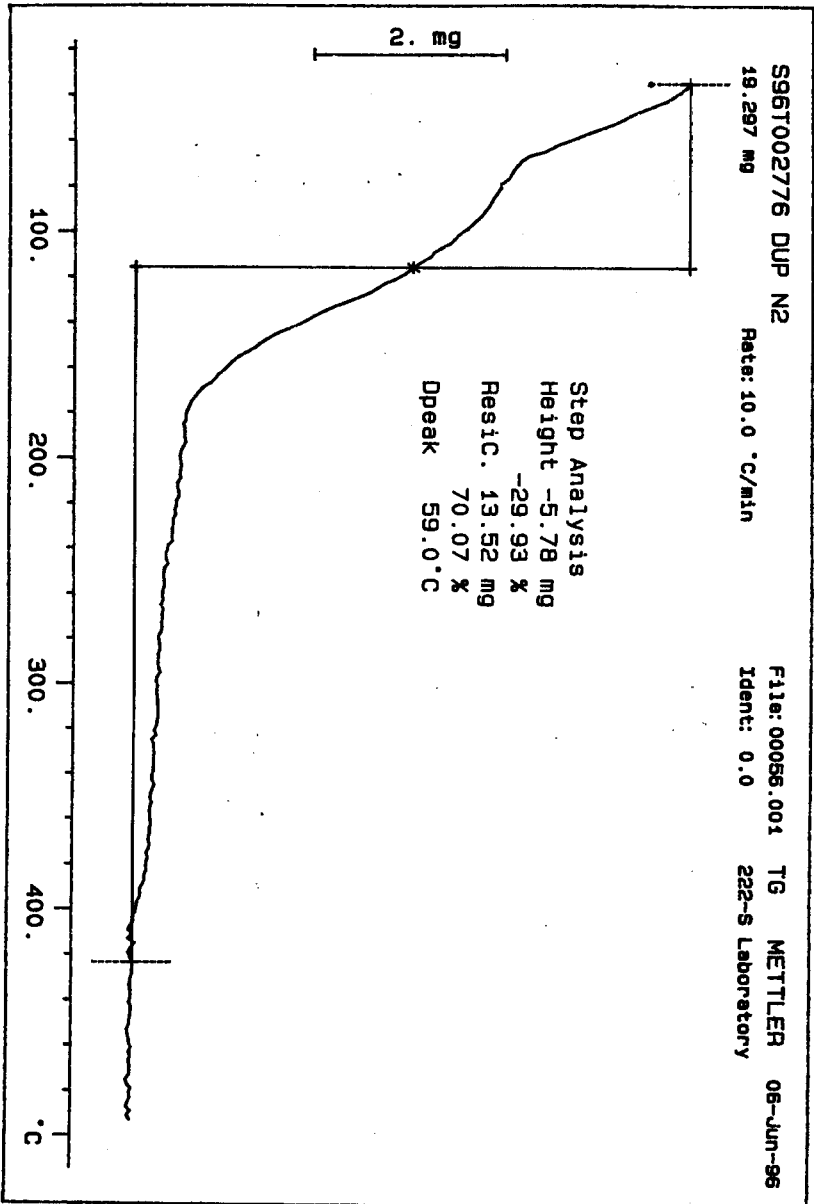
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 241 TO 245.

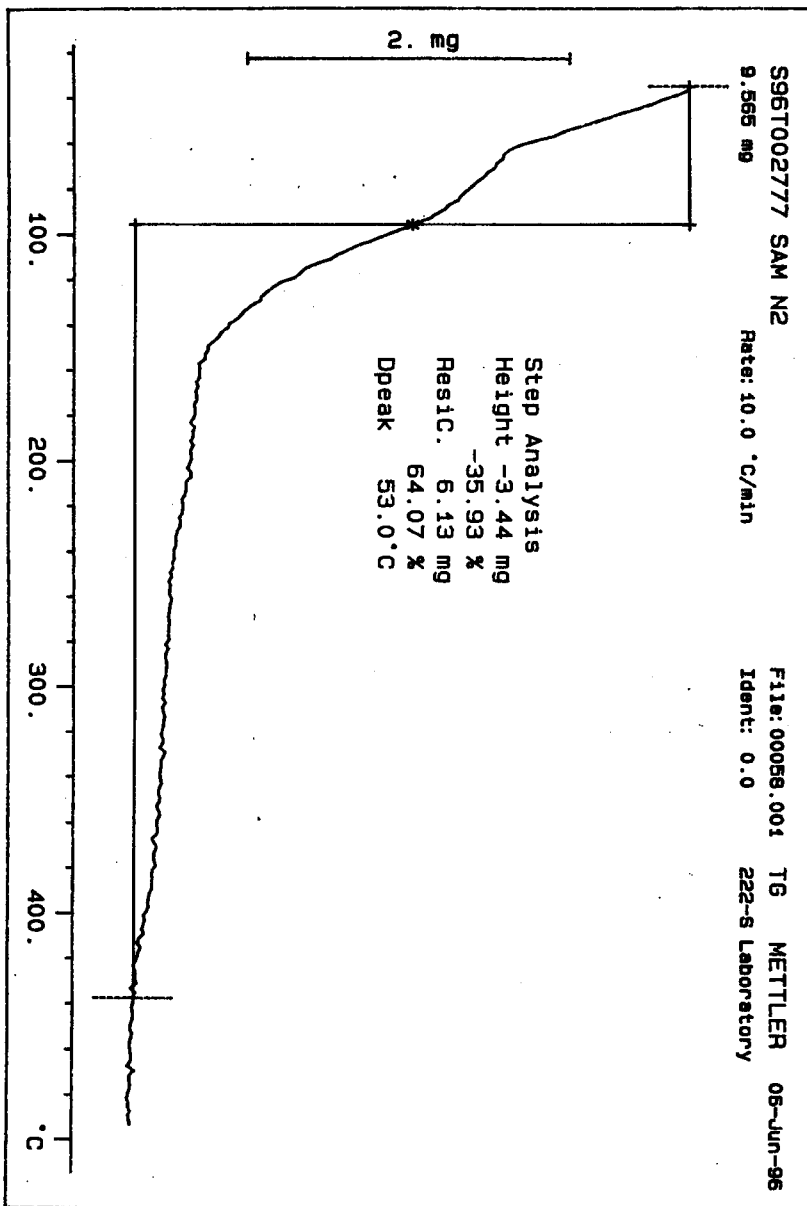
TGA STD 82N8-A N2
14.423 mg
Rate: 10.0 °C/min
File: 00054.001 TG METTLER 06-Jun-96
Ident: 0.0 222-S Laboratory

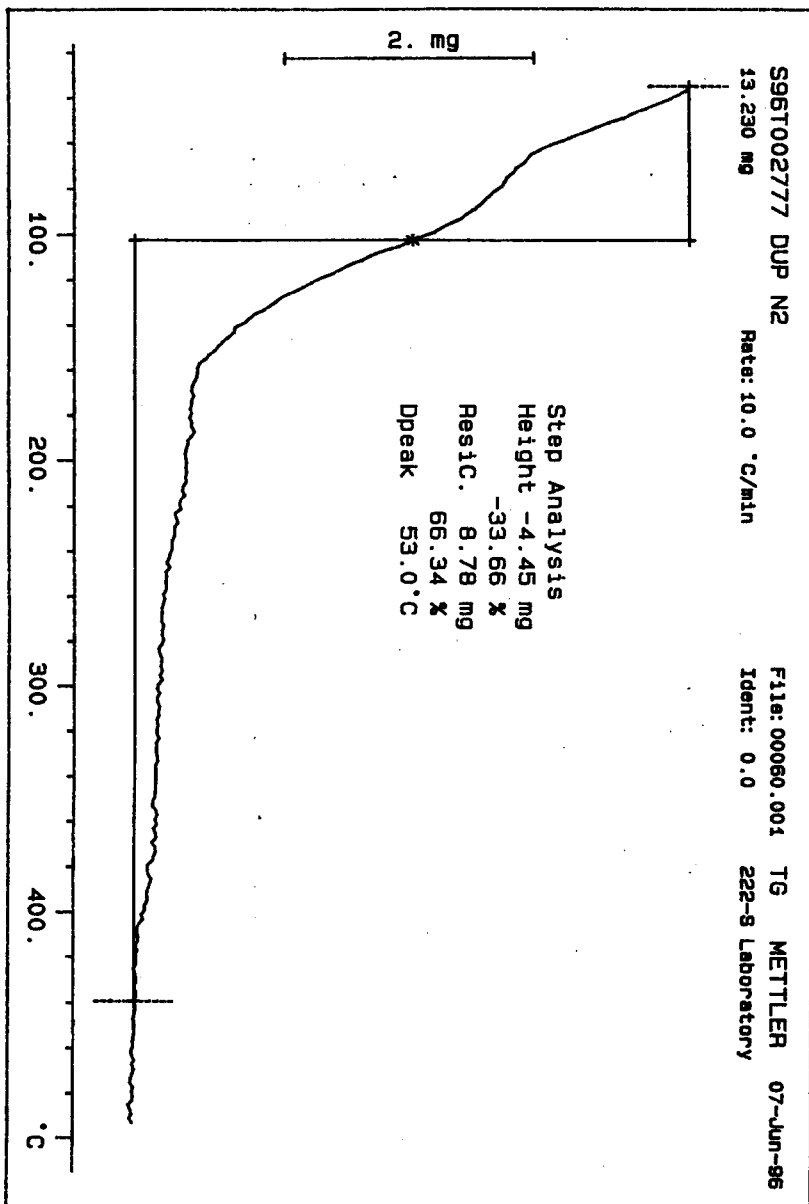
Step Analysis
Height -8.46 mg
-58.66 %
Resic. 5.96 mg
41.34 %
Dpeak 77.5°C











LABCORE Data Entry Template for Worklist#

9535

Analyst: RK Instrument: TGA0 1 Book # 8218A

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

Worklist Comment: U-102 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	58.84*	N/A	%
96000569	U-102	2 SAMPLE	S96T002778	0	TGA-01	SOLID	N/A	40.04		%
96000569	U-102	3 DUP	S96T002778	0	TGA-01	SOLID	40.04	37.04	N/A	%
96000569	U-102	4 SAMPLE	S96T002779	0	TGA-01	SOLID	N/A	50.10		%
96000569	U-102	5 DUP	S96T002779	0	TGA-01	SOLID	50.10	55.46	N/A	%

Final page for worklist #

9535

Mob-Mmm 6/13/96
Analyst Signature Date

RJ 6-12-96
Analyst Signature Date

Verified ^{6/13/96} ~~for~~ Verified/Validated by
Blandina Valenzuela
6-13-96

Data Entry Comments: S96T002778 results are the sum of two weight loss steps

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 247 TO 251.

TGA STD 82NB-A N2

28.284 mg

Rate: 10.0 °C/min

File: 00062.001

TG METTLER 07-Jun-96

Ident: 0.0 222-S Laboratory

Step Analysis

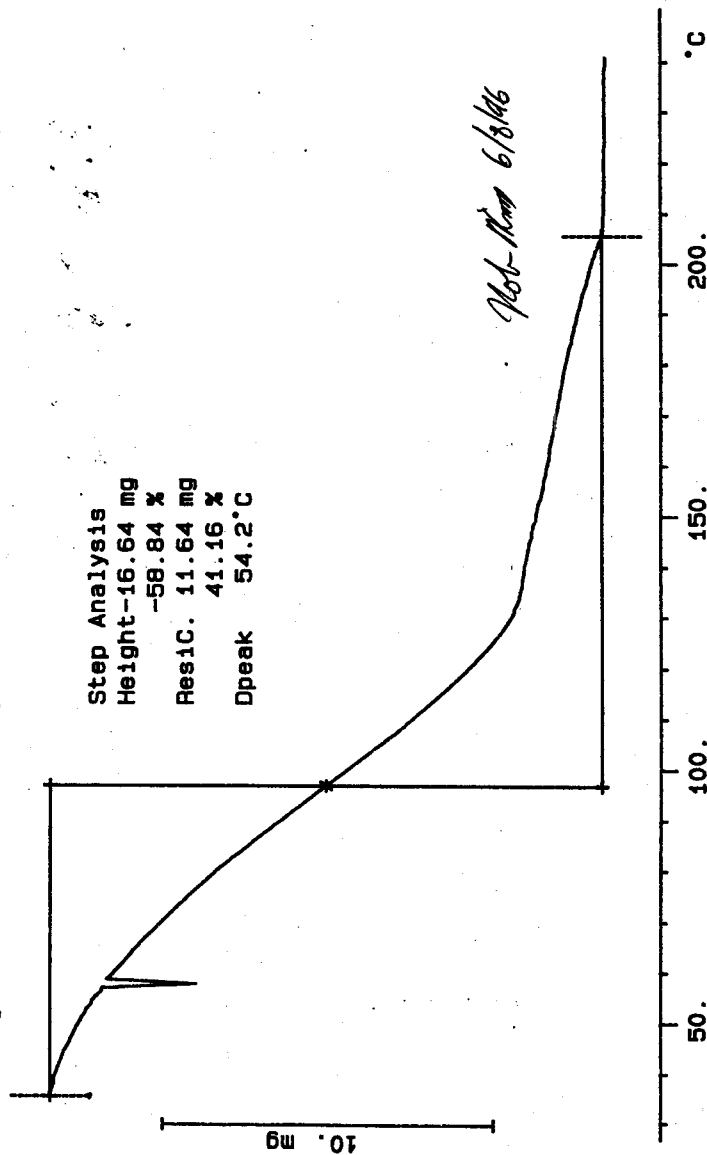
Height-16.64 mg

-58.84 %

Res1C. 11.64 mg

41.16 %

Dpeak 54.2°C



S96T002778 SAM N2

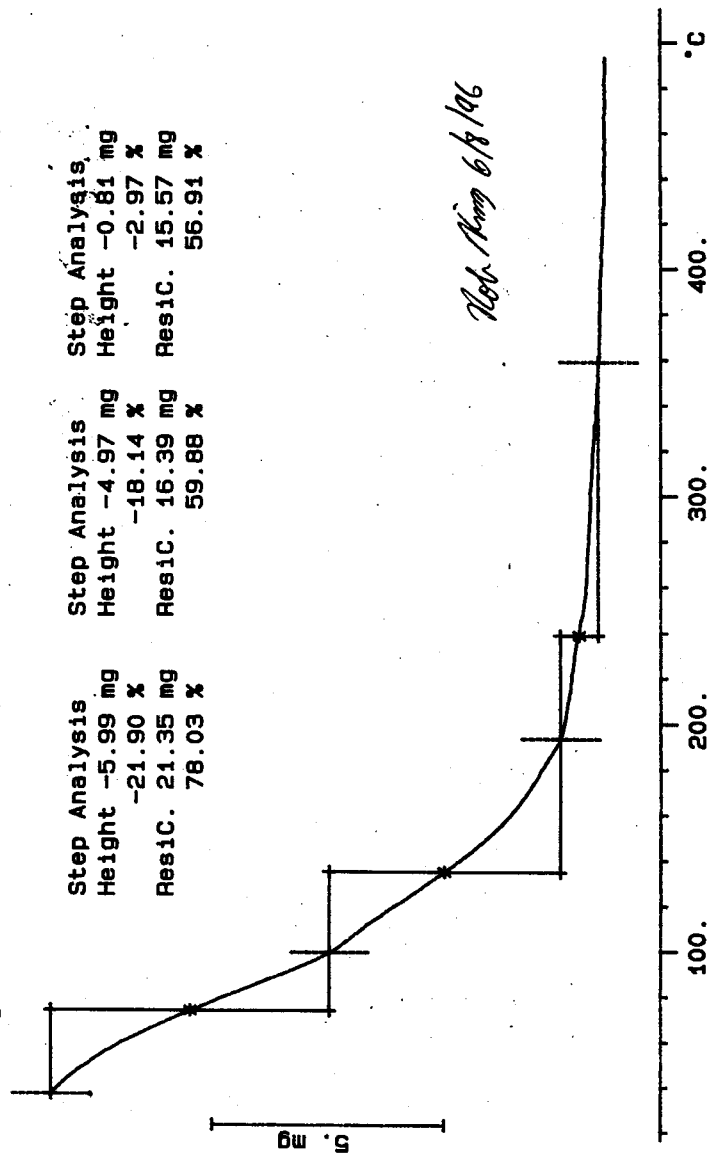
27.363 mg

Rate: 10.0 °C/min

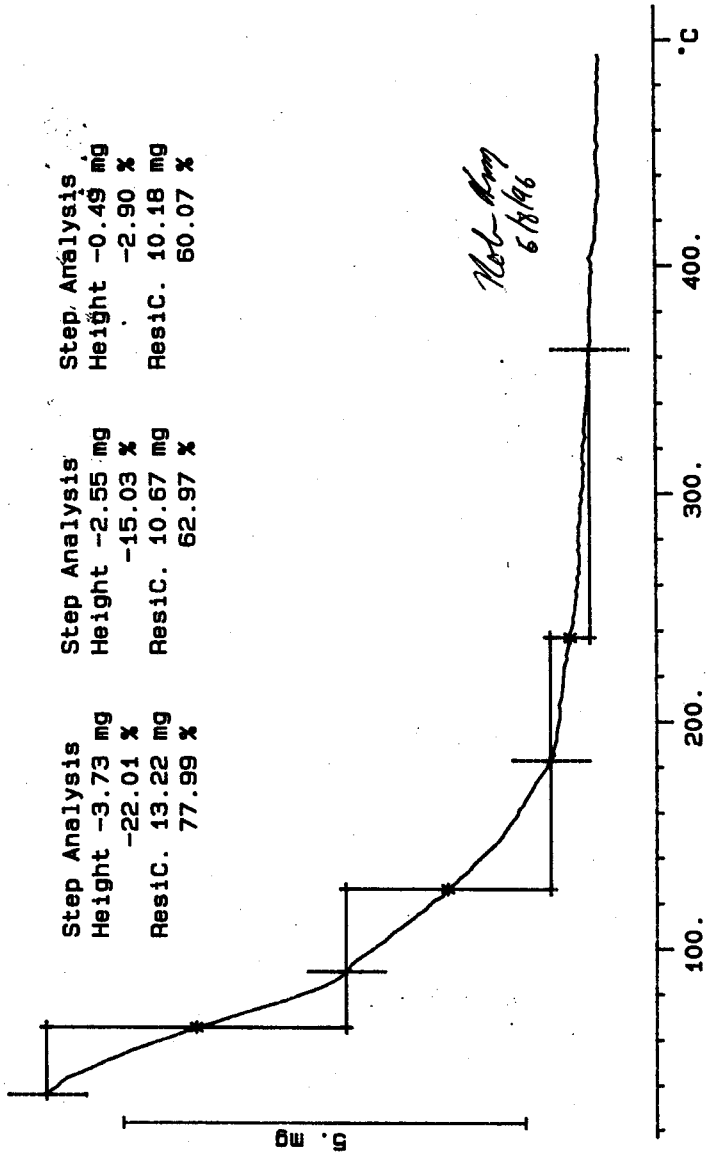
File: 00075.001

TG METTLER 07-Jun-96

Ident: 0.0 222-S Laboratory



S96T002778 DUP N2
 16.952 mg
 Rate: 10.0 °C/min
 File: 00077.001 TG METTLER 08-Jun-96
 Ident: 0.0 222-S Laboratory



S96T002779 SAM N2

34.889 mg

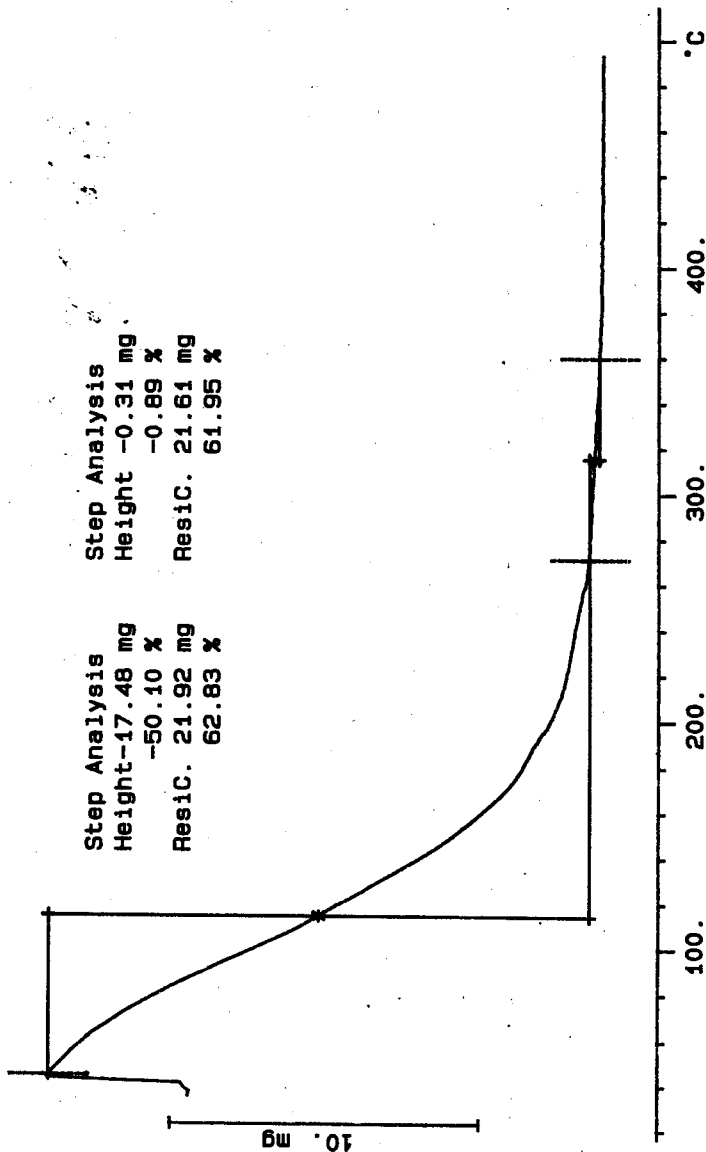
Rate: 10.0 °C/min

File: 00079.001 TG METTLER 08-Jun-86

Ident: 0.0 222-S Laboratory

Step Analysis
Height-17.48 mg
-50.10 %
ResidC. 21.92 mg
62.83 %

Step Analysis
Height -0.31 mg
-0.89 %
ResidC. 21.61 mg
61.95 %



S96T002779 DUP N2

6.122 mg

Rate: 10.0 °C/min

File: 00081.001 TG METTLER 08-Jun-96

Ident: 0.0 222-S Laboratory

Step Analysis

Height -3.40 mg

-55.46 %

Resid. 6.65 mg

108.62 %

Step Analysis

Height -0.36 mg

-5.89 %

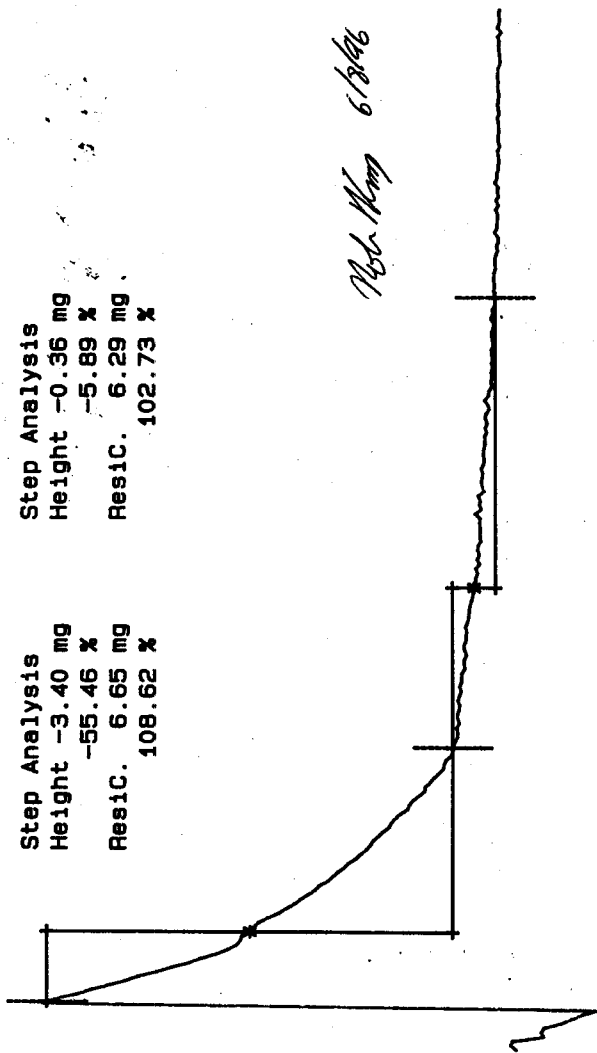
Resid. 6.29 mg

102.73 %

2. mg

Rob. King 6/2/96

100. 200. 300. 400. °C



LABCORE Data Entry Template for Worklist#

9536

Analyst: SAL Instrument: TGA0 1 Book # 8A182N8-A

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

Worklist Comment: U-102 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	58.90	N/A	X
96000569	U-102	2 SAMPLE	S96T002780	0	TGA-01	SOLID	N/A	44.90		X
96000569	U-102	3 DUP	S96T002780	0	TGA-01	SOLID	44.90	44.08	N/A	X

Final page for worklist #

9536

A Lambert
Analyst Signature Date 06-07-96

[Signature]
Analyst Signature Date 6-13-96

Verified/Validated by
Blandina
Valenzuela 6-14-96

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.

A. Kambel 06-07-96

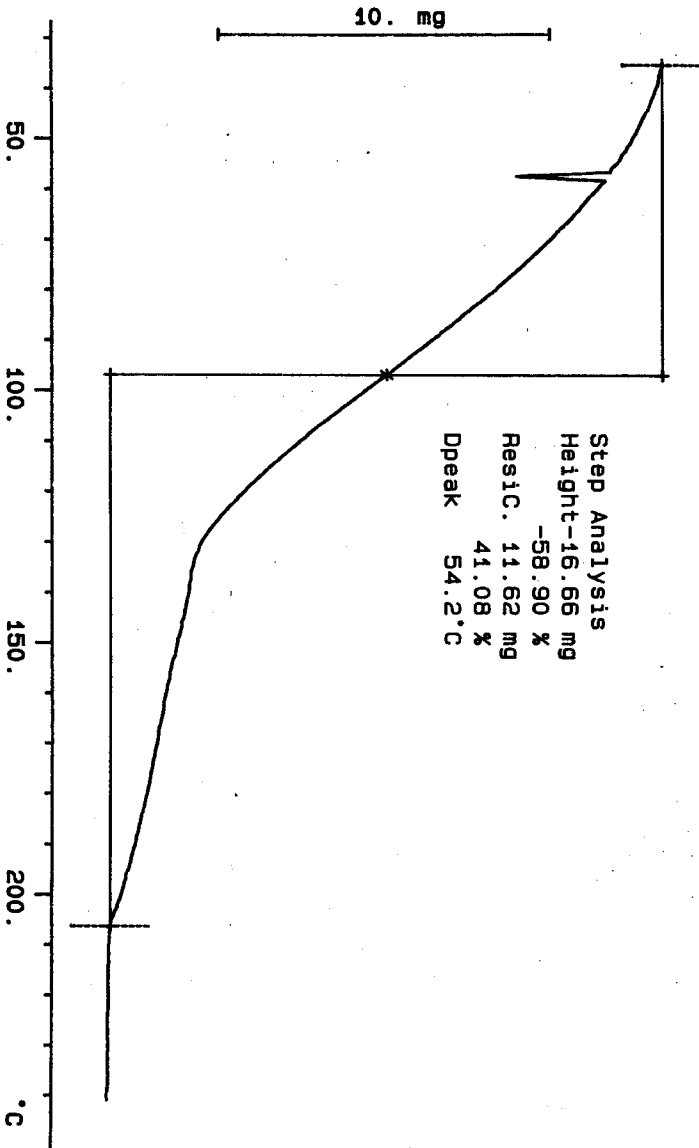
TGA STD 82N8-A N2
28.284 mg

Rate: 10.0 °C/min

File: 00062.001
Ident: 0.0

TG METTLER 07-Jun-96
222-S Laboratory

Step Analysis
Height-16.66 mg
-58.90 %
ResidC. 11.62 mg
41.08 %
Dpeak 54.2°C



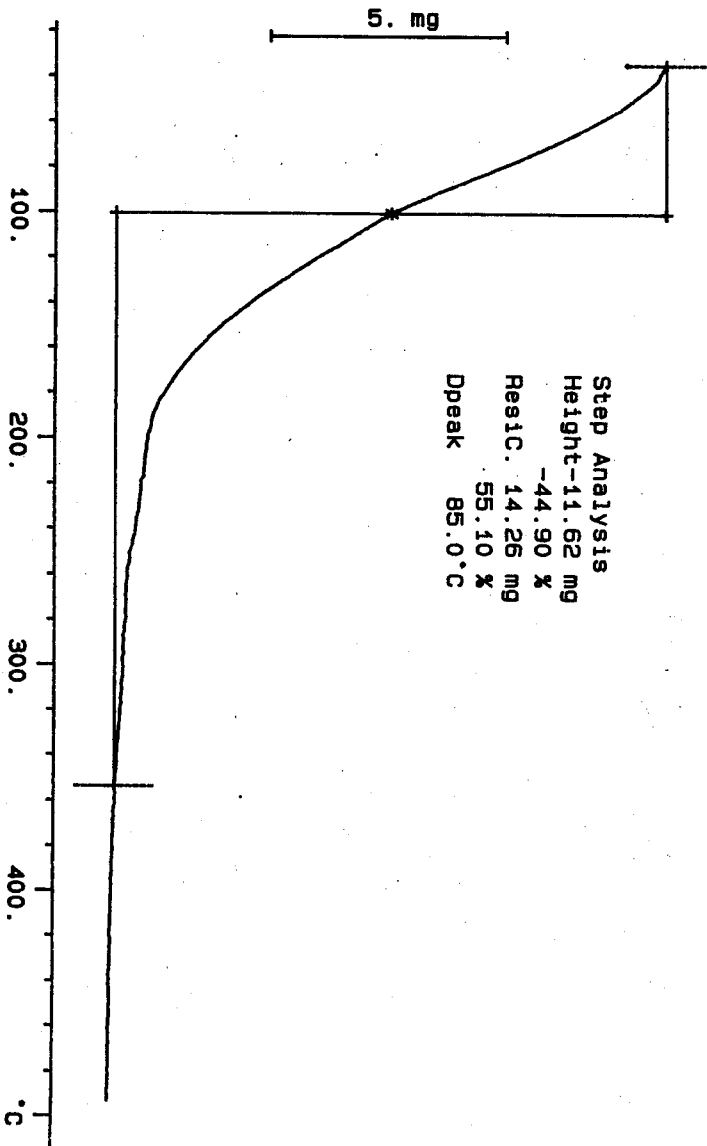
SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 253 TO 255

S96T002780 SAM N2
25.876 mg

Rate: 10.0 °C/min

File: 00072.001 TG METTLER 07-Jun-96
Ident: 0.0 222-S Laboratory

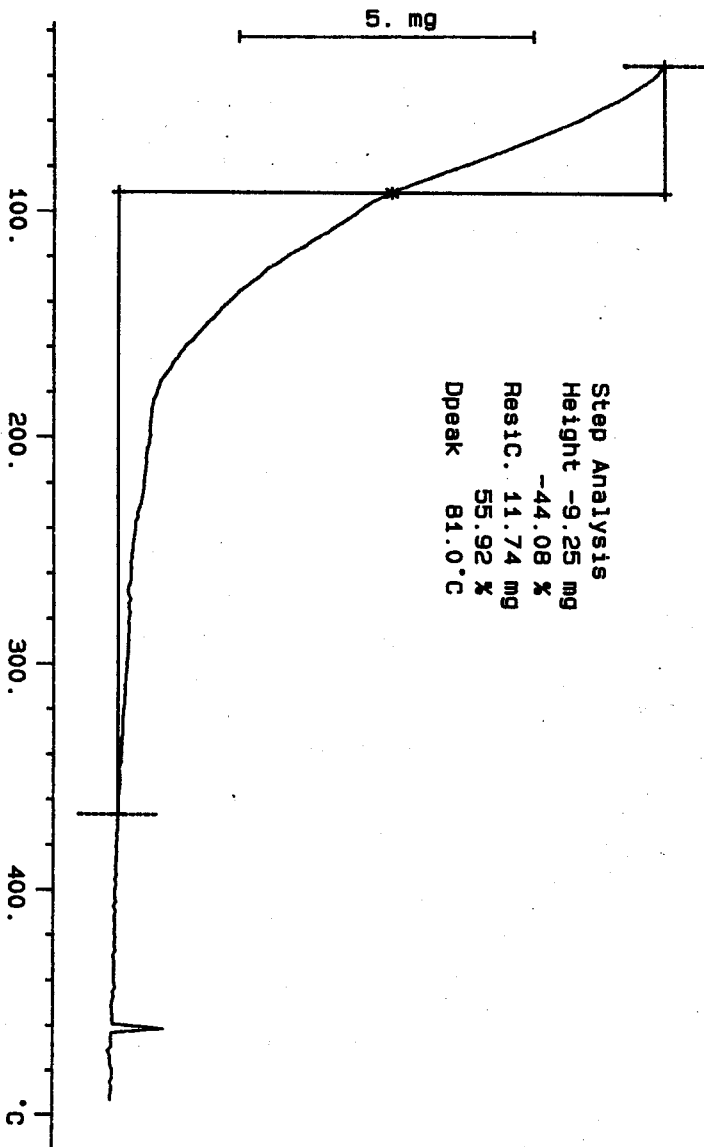
Step Analysis
Height-11.62 mg
-44.90 %
Resid. 14.26 mg
55.10 %
Dpeak 85.0 °C



S96T002780 DUP N2
20.984 mg

Rate: 10.0 °C/min

File: 00073.001 16 METTLER 07-Jun-96
Ident: 0.0 222-S Laboratory



LABCORE Data Entry Template for Worklist#

10074

Analyst: ADP Instrument: TGA0 1 Book # 82N8A

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

Worklist Comment: TGA U-102 Reruns. Run under N2. RUSH

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL ⁶⁻²⁵⁻⁹⁶	FOUND ⁶⁻²⁵⁻⁹⁶	DL	UNIT
		1 STD			TGA-03	SOLID	<u>59.42</u>	<u>59.43</u>	<u>N/A</u>	<u>X</u>
96000536	U-102	2 SAMPLE	S96T002344	1	TGA-03	SOLID	<u>N/A</u>	<u>28.1</u>		<u>X</u>
96000536	U-102	3 DUP	S96T002344	1	TGA-03	SOLID	<u>28.1</u>	<u>31.81</u>	<u>N/A</u>	<u>X</u>

Final page for worklist #

10074

Adrian P. Runtz 6-20-96
Analyst Signature Date

Adrian P. Runtz 6/25/96
Analyst Signature Date

Verified/Validate by
Blandina
Valenzuela
6-26-96

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.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 257 TO 259

TGA STD 82N8-A N2

15.072 mg

Rate: 10.0 °C/min

File: 00026.001

TG METTLER

20-Jun-96

Ident: 0.0

222-8 Laboratory

Step Analysis

Height -8.96 mg

-59.43 %

Resid. 6.11 mg

40.57 %

Dpeak 71.7 °C

5. mg

50.

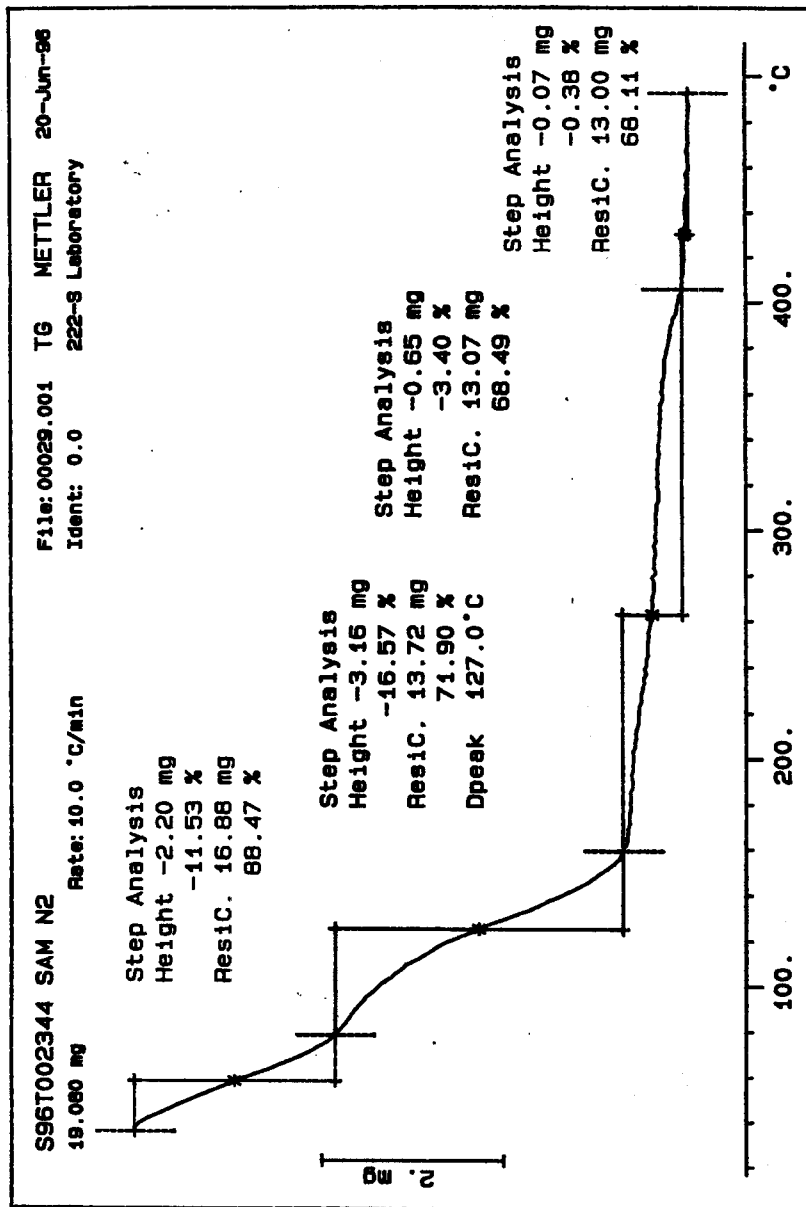
100.

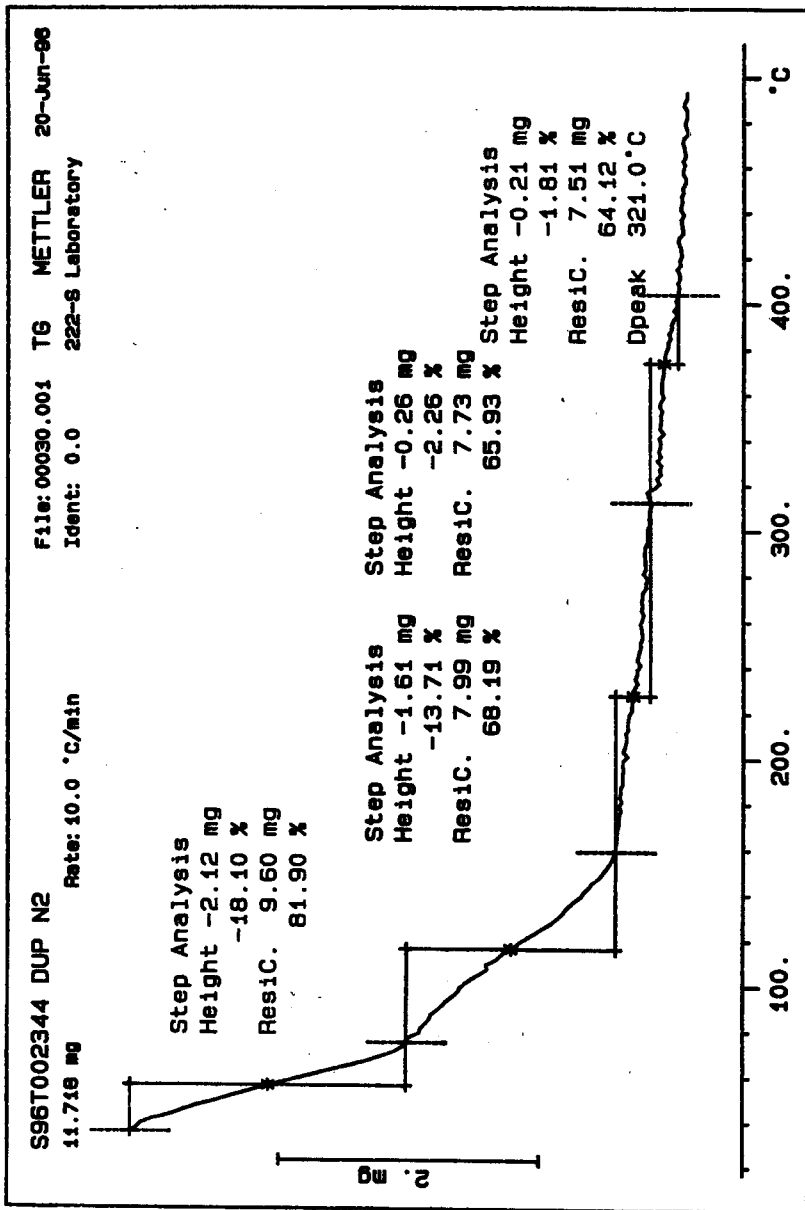
150.

200.

°C

[Signature]
6-20-96





DISTRIBUTION SHEET

To Distribution	From Program Support	Page 1 of 1
		Date: 06-21-96

Project Title/Work Order WHC-SD-MM-DP-189, REV. 0 "45-Day Safety Screening Results for Tank 241-U-102, Push Mode Cores 143 and 144"	EDT NO.: 614797
	ECN NO.: N/A

Name	MSIN	Text With all Attach	EDT/ECN ONLY	
<u>Pacific Northwest Laboratory</u>				
J. R. Gormsen	K7-28		X	
S. J. Harris	K7-22	X		
K. L. Silvers	P7-27		X	
<u>U.S. Department of Energy, RL</u>				
C. A. Babel	S7-54	X		
<u>Westinghouse Hanford Company</u>				
J. N. Appel	G3-21		X	
G. D. Forehand	S7-31		X	
D. C. Hetzer	S6-31		X	
T. A. (Albert) Hu	R2-12	X		
J. E. Hyatt	S3-31	X		
N. W. Kirch	R2-11	X		
M. J. Kupfer	H5-49	X		
J. E. Meacham	S7-15	X		
K. L. Powell	T6-04		X	
J. B. Schaffer (SD COV SHT., DST. SHT, ROR)	R2-12		X*	
L. W. Shelton	H5-49	X		
F. H. Steen	T6-06	X		
M. J. Sutey	T4-07	X		
T. T. Tran (LATA)	B1-44	X		
J. A. Voogd	H5-03		X	
L. R. Webb (SD COV SHT., DST. SHT, ROR)	T6-06		X *	
A. E. Young	R2-12	X		
Central Files	A3-88	2		
EDMC	H6-08	X		
LTIC	T6-03		X	

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