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

**Document number:** SD-WM-DP-103

**Section** 2 **of** 10

**Title:** Final Report for Tank 241BY106
Cores 64 & 65 & 121
[Pgs. 286 Thru 618]

**Date:** 07/13/1996 **Revision:** R001

**Originator:** Bell KE
**Co:** WHC

**Recipient:**
**Co:**

**References:** ECN-629027

# SAMPLE HANDLING

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# LABCORE Data Entry Template for Worklist# 191

**Analyst:** EC **Instrument:** BA002 _____ **Method:** LO-160-103 A-6

**Worklist Comment:** BY-106 C-64 SEG-1

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.996 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.948 | N/A | |
| 3 | SAMPLE | S94T000235 | 0 | | DLIQVOL1 | SOLID | N/A | ⊖ | | mL |
| 4 | SAMPLE | S94T000235 | 0 | | DLIQWT01 | SOLID | N/A | ⊖ | | g |
| 5 | SAMPLE | S94T000235 | 0 | | EST.G/ML | SOLID | N/A | ⊖ | | g/mL |
| 6 | SAMPLE | S94T000235 | 0 | | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S94T000235 | 0 | | LLIQWT01 | SOLID | N/A | ⊖ | | g |
| 8 | SAMPLE | S94T000235 | 0 | | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S94T000235 | 0 | | SLDVOL01 | SOLID | N/A | 12 | | mL |
| 10 | SAMPLE | S94T000235 | 0 | | SLDWT-01 | SOLID | N/A | 15.95 | | g |

## Final page for worklist # 191

E A C J
**Analyst Signature**

11-30-94
**Date**

*Data Entry Comments:*

Chemist Review and data posted on 12/1/94 RKFuller

*Units shown for QC (SPK) may not reflect the actual units.*

# LABCORE Data Entry Template for Worklist# 193

**Analyst:** EC **Instrument:** BA002 **Method:** LO-160-103 A-6

**Worklist Comment:** BY-106 C-64 SEG-2

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.95 | N/A | |
| 3 | SAMPLE | S94T000236 | 0 | | DLIQVOL1 | SOLID | N/A | Θ | | mL |
| 4 | SAMPLE | S94T000236 | 0 | | DLIQWT01 | SOLID | N/A | Θ | | g |
| 5 | SAMPLE | S94T000236 | 0 | | EST.G/ML | SOLID | N/A | Θ | | g/mL |
| 6 | SAMPLE | S94T000236 | 0 | | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S94T000236 | 0 | | LLIQWT01 | SOLID | N/A | Θ | | g |
| 8 | SAMPLE | S94T000236 | 0 | | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S94T000236 | 0 | | SLDVOL01 | SOLID | N/A | 100 | | mL |
| 10 | SAMPLE | S94T000236 | 0 | | SLDWT-01 | SOLID | N/A | 125 | | g |

## Final page for worklist # 193

[signature]
**Analyst Signature**

12-1-94
**Date**

*Data Entry Comments:*
Ready for Chemist Review.
Chemist Review and posting performed 12/1/94. RK Fuller

*Units shown for QC (SPK) may not reflect the actual units.*

# LABCORE Data Entry Template for Worklist# 194

**Analyst:** EC **Instrument:** BA002 **Method:** LO-160-103 A-b

**Worklist Comment:** BY-106 C-64 SEG-3

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 20.12 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.88 | N/A | |
| 3 | SAMPLE | S94T000285 | 0 | | DLIQVOL1 | SOLID | N/A | 95 | | mL |
| 4 | SAMPLE | S94T000285 | 0 | | DLIQWT01 | SOLID | N/A | 144.32 | | g |
| 5 | SAMPLE | S94T000285 | 0 | | EST.G/ML | SOLID | N/A | 1.52 | | g/mL |
| 6 | SAMPLE | S94T000285 | 0 | | EXTRUD01 | SOLID | N/A | Complete | | |
| 7 | SAMPLE | S94T000285 | 0 | | LLIQWT01 | SOLID | N/A | ⊖ | | g |
| 8 | SAMPLE | S94T000285 | 0 | | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S94T000285 | 0 | | SLDVOL01 | SOLID | N/A | 27 | | mL |
| 10 | SAMPLE | S94T000285 | 0 | | SLDWT-01 | SOLID | N/A | 37.59 | | g |

## Final page for worklist # 194

E A [illegible]
**Analyst Signature**

12-1-94
**Date**

[illegible]

12-05-94

*Data Entry Comments:*

Chemist Review and data posted 12/1/94

*Units shown for QC (SPK) may not reflect the actual units.*

# LABCORE Data Entry Template for Worklist# 195

**Analyst:** EC **Instrument:** BA002 **Method:** LO-160-103 Alp

**Worklist Comment:** BY-106 C-64 SEG-4

| Seg | Type | Sample# | Rep Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | EXTRUD01 | SOLID | 20grams | 19.99 | N/A | |
| 2 | INSTCHK02 | | | EXTRUD01 | SOLID | 500grams | 499.84 | N/A | |
| 3 | SAMPLE | S94T000286 | 0 | DLIQVOL1 | SOLID | N/A | Ø | | mL |
| 4 | SAMPLE | S94T000286 | 0 | DLIQWT01 | SOLID | N/A | Ø | | g |
| 5 | SAMPLE | S94T000286 | 0 | EST.G/ML | SOLID | N/A | Ø | | g/mL |
| 6 | SAMPLE | S94T000286 | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S94T000286 | 0 | LLIQWT01 | SOLID | N/A | Ø | | g |
| 8 | SAMPLE | S94T000286 | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S94T000286 | 0 | SLDVOL01 | SOLID | N/A | 211 | | mL |
| 10 | SAMPLE | S94T000286 | 0 | SLDWT-01 | SOLID | N/A | 317.32 | | g |

## Final page for worklist # 195

**Analyst Signature** E L Cato

**Date** 12/02/94 12/02/94

*Data Entry Comments:*

*Units shown for QC (SPK) may not reflect the actual units.*

# LABCORE Data Entry Template for Worklist# 213

**Analyst:** EC **Instrument:** BA002 **Method:** LO-160-103 Rev mode A-6

**Worklist Comment:** BY-106 C-64 SEG-5

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.86 | N/A | |
| 3 | SAMPLE | S94T000322 | 0 | | DLIQVOL1 | SOLID | N/A | Θ | | mL |
| 4 | SAMPLE | S94T000322 | 0 | | DLIQWT01 | SOLID | N/A | Θ | | g |
| 5 | SAMPLE | S94T000322 | 0 | | EST.G/ML | SOLID | N/A | Θ | | g/mL |
| 6 | SAMPLE | S94T000322 | 0 | | EXTRUD01 | SOLID | N/A | Complete | | |
| 7 | SAMPLE | S94T000322 | 0 | | LLIQWT01 | SOLID | N/A | 12-7-94 Θ ~~WHC-N-996~~ | | g |
| 8 | SAMPLE | S94T000322 | 0 | | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S94T000322 | 0 | | SLDVOL01 | SOLID | N/A | 1.62 | | mL |
| 10 | SAMPLE | S94T000322 | 0 | | SLDWT-01 | SOLID | N/A | 2.43 | | g |

## Final page for worklist # 213

E A [illegible] 12-7-94

**Analyst Signature** **Date**

[illegible] Dec. 07, 1994

*Data Entry Comments:*
Ready for chemist review
Reviewed by [illegible] 12-07-94

*Units shown for QC (SPK) may not reflect the actual units.*

# LABCORE Data Entry Template for Worklist# 214

**Analyst:** EC **Instrument:** BA002 _____ **Method:** LO-160-103 Rev mode A-6

**Worklist Comment:** BY-106 C-64 SEG-6

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.77 | N/A | |
| 3 | SAMPLE | S94T000323 | 0 | | DLIQVOL1 | SOLID | N/A | 15 | | mL |
| 4 | SAMPLE | S94T000323 | 0 | | DLIQWT01 | SOLID | N/A | 17.23 | | g |
| 5 | SAMPLE | S94T000323 | 0 | | EST.G/ML | SOLID | N/A | 1.15 | | g/mL |
| 6 | SAMPLE | S94T000323 | 0 | | EXTRUD01 | SOLID | N/A | Complete | | |
| 7 | SAMPLE | S94T000323 | 0 | | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S94T000323 | 0 | | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S94T000323 | 0 | | SLDVOL01 | SOLID | N/A | 2.5 | | mL |
| 10 | SAMPLE | S94T000323 | 0 | | SLDWT-01 | SOLID | N/A | 283 | | g |

## Final page for worklist # 214

EAC
**Analyst Signature**

12-7-94
**Date**

Arlin B. Bay
12-07-94

*Data Entry Comments:*
Ready for chemist review.
Reviewed by Arlin B. Bay 12-07-94

*Units shown for QC (SPK) may not reflect the actual units.*

**LABCORE Data Entry Template for Worklist# 222**

**Analyst:** EC **Instrument:** BA002 _____ **Method:** LO-160-103 A-6

**Worklist Comment:** BY-106 C-64 SEG-7

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.98 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.84 | N/A | |
| 3 | SAMPLE | S94T000324 | | 0 | DLIQVOL1 | SOLID | N/A | Θ | | mL |
| 4 | SAMPLE | S94T000324 | | 0 | DLIQWT01 | SOLID | N/A | Θ | | g |
| 5 | SAMPLE | S94T000324 | | 0 | EST.G/ML | SOLID | N/A | Θ | | g/mL |
| 6 | SAMPLE | S94T000324 | | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S94T000324 | | 0 | LLIQWT01 | SOLID | N/A | Θ | | g |
| 8 | SAMPLE | S94T000324 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S94T000324 | | 0 | SLDVOL01 | SOLID | N/A | Θ | | mL |
| 10 | SAMPLE | S94T000324 | | 0 | SLDWT-01 | SOLID | N/A | Θ | | g |

**Final page for worklist # 222**

**Analyst Signature** 12-8-94 **Date**

12-09-94

*Data Entry Comments:*

*Units shown for QC (SPK) may not reflect the actual units.* *Page:* 1

**LABCORE Data Entry Template for Worklist# 224**

**Analyst:** EC **Instrument:** BA002 _____ **Method:** LO-160-103 A-6

**Worklist Comment:** BY-106 C-64 SEG-8

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.84 | N/A | |
| 3 | SAMPLE | S94T000325 | | 0 | DLIQVOL1 | SOLID | N/A | ~~0~~ | | mL |
| 4 | SAMPLE | S94T000325 | | 0 | DLIQWT01 | SOLID | N/A | ~~0~~ | | g |
| 5 | SAMPLE | S94T000325 | | 0 | EST.G/ML | SOLID | N/A | ~~1.5~~ 0 12-8-94 | | g/mL |
| 6 | SAMPLE | S94T000325 | | 0 | EXTRUD01 | SOLID | N/A | Complete | | |
| 7 | SAMPLE | S94T000325 | | 0 | LLIQWT01 | SOLID | N/A | ~~0~~ | | g |
| 8 | SAMPLE | S94T000325 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S94T000325 | | 0 | SLDVOL01 | SOLID | N/A | 258 | | mL |
| 10 | SAMPLE | S94T000325 | | 0 | SLDWT-01 | SOLID | N/A | 388 | | g |

**Final page for worklist # 224**

EC
**Analyst Signature**

12-8-94
**Date**

12-09-94

*Data Entry Comments:*

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

LABCORE Data Entry Template for Worklist# 234

Analyst: EC Instrument: BA002 _____ Method: LO-160-103 A-6

Worklist Comment: BY-106 C-64 SEG-9

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.98 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.77 | N/A | |
| 3 | SAMPLE | S94T000328 | | 0 | DLIQVOL1 | SOLID | N/A | 0 | | mL |
| 4 | SAMPLE | S94T000328 | | 0 | DLIQWT01 | SOLID | N/A | 0 | | g |
| 5 | SAMPLE | S94T000328 | | 0 | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 6 | SAMPLE | S94T000328 | | 0 | EXTRUD01 | SOLID | N/A | Complete | | |
| 7 | SAMPLE | S94T000328 | | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S94T000328 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N996 | | |
| 9 | SAMPLE | S94T000328 | | 0 | SLDVOL01 | SOLID | N/A | 49 | | mL |
| 10 | SAMPLE | S94T000328 | | 0 | SLDWT-01 | SOLID | N/A | 73 | | g |

Final page for worklist # 234

Analyst Signature

12-9-94
Date

12-12-94

*Data Entry Comments:*

Reviewed by 12-12-94

*Units shown for QC (SPK) may not reflect the actual units.*

LABCORE Data Entry Template for Worklist# 307

Analyst: EC Instrument: BA000 Method: LO-160-103 A-6

Worklist Comment: BY-106 C64 Seg 10 Extrusion

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.77 | N/A | |
| 3 | SAMPLE | S94T000365 | | 0 | DLIQVOL1 | SOLID | N/A | 200 | | mL |
| 4 | SAMPLE | S94T000365 | | 0 | DLIQWT01 | SOLID | N/A | 244 | | g |
| 5 | SAMPLE | S94T000365 | | 0 | EST.G/ML | SOLID | N/A | 1.22 | | g/mL |
| 6 | SAMPLE | S94T000365 | | 0 | EXTRUD01 | SOLID | N/A | Complete | | |
| 7 | SAMPLE | S94T000365 | | 0 | LLIQWT01 | SOLID | N/A | ⊖ | | g |
| 8 | SAMPLE | S94T000365 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S94T000365 | | 0 | SLDVOL01 | SOLID | N/A | 85 | | mL |
| 10 | SAMPLE | S94T000365 | | 0 | SLDWT-01 | SOLID | N/A | EC 12-22-94 ~~49~~ 174 | | g |
| 11 | SAMPLE | S94T000365 | | 0 | ORGVOL01 | SOLID | N/A | ⊖ | | mL |
| 12 | SAMPLE | S94T000365 | | 0 | FSLDWT01 | SOLID | N/A | ⊖ | | g |

Final page for worklist # 307

Analyst Signature

12-22-94
Date

*Data Entry Comments:*

Worklist posted 12/22/94 by RKFuller

*Units shown for QC (SPK) may not reflect the actual units.*

LABCORE Data Entry Template for Worklist# 314

Analyst: EC Instrument: BA000 _____ Method: LO-160-103 A-6

Worklist Comment: BY-106 C64 Seg 11 Extrusion

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.76 | N/A | |
| 3 | SAMPLE | S94T000378 | | 0 | DLIQVOL1 | SOLID | N/A | 0 | | mL |
| 4 | SAMPLE | S94T000378 | | 0 | DLIQWT01 | SOLID | N/A | 0 | | g |
| 5 | SAMPLE | S94T000378 | | 0 | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 6 | SAMPLE | S94T000378 | | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S94T000378 | | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S94T000378 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S94T000378 | | 0 | SLDVOL01 | SOLID | N/A | 30 | | mL |
| 10 | SAMPLE | S94T000378 | | 0 | SLDWT-01 | SOLID | N/A | 38 | | g |
| 11 | SAMPLE | S94T000378 | | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| 12 | SAMPLE | S94T000378 | | 0 | FSLDWT01 | SOLID | N/A | 0 | | g |

Final page for worklist # 314

E A C

Analyst Signature

12-27-94

Date

*Data Entry Comments:* Chemist Review Complete

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

LABCORE Data Entry Template for Worklist# 315

Analyst: EC Instrument: BA000 EAST Method: LO-160-103 A-6

Worklist Comment: BY-106 C64 Seg 12 Extrusion

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.75 | N/A | |
| 3 | SAMPLE | S94T000379 | | 0 | DLIQVOL1 | SOLID | N/A | 0 | | mL |
| 4 | SAMPLE | S94T000379 | | 0 | DLIQWT01 | SOLID | N/A | 0 | | g |
| 5 | SAMPLE | S94T000379 | | 0 | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 6 | SAMPLE | S94T000379 | | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S94T000379 | | 0 | LLIQWT01 | SOLID | N/A | 5 | | g |
| 8 | SAMPLE | S94T000379 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S94T000379 | | 0 | SLDVOL01 | SOLID | N/A | 65 | | mL |
| 10 | SAMPLE | S94T000379 | | 0 | SLDWT-01 | SOLID | N/A | 96 | | g |
| 11 | SAMPLE | S94T000379 | | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| 12 | SAMPLE | S94T000379 | | 0 | FSLDWT01 | SOLID | N/A | 0 | | g |

Final page for worklist # 315

Analyst Signature

12-27-94
Date

*Data Entry Comments:*

Results posted 12/30/94 RKFuller

*Units shown for QC (SPK) may not reflect the actual units.*

**LABCORE Data Entry Template for Worklist# 316**

**Analyst:** SC **Instrument:** BA000 EAST **Method:** LO-160-103 A-6

**Worklist Comment:** BY-106 C64 Seg 13 Extrusion

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.98 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.66 | N/A | |
| 3 | SAMPLE | S94T000380 | | 0 | DLIQVOL1 | SOLID | N/A | 0 | | mL |
| 4 | SAMPLE | S94T000380 | | 0 | DLIQWT01 | SOLID | N/A | 0 | | g |
| 5 | SAMPLE | S94T000380 | | 0 | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 6 | SAMPLE | S94T000380 | | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S94T000380 | | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S94T000380 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S94T000380 | | 0 | SLDVOL01 | SOLID | N/A | 10 | | mL |
| 10 | SAMPLE | S94T000380 | | 0 | SLDWT-01 | SOLID | N/A | 12.8 | | g |
| 11 | SAMPLE | S94T000380 | | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| 12 | SAMPLE | S94T000380 | | 0 | FSLDWT01 | SOLID | N/A | 0 | | g |

**Final page for worklist # 316**

SCL

**Analyst Signature**

12-28-94

**Date**

*Data Entry Comments:*

Results posted 12/30/94 By RKZuller.

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

LABCORE Data Entry Template for Worklist# 308

Analyst: EC Instrument: BA000 _____ Method: LO-160-103 A-6

Worklist Comment: BY-106 C64 OrgVol/Fsld Backlog

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.77 | N/A | |
| 3 | SAMPLE | S94T000235 | | 0 | ORGVOL01 | SOLID | N/A | Θ | | mL |
| 4 | SAMPLE | S94T000236 | | 0 | ORGVOL01 | SOLID | N/A | Θ | | mL |
| 5 | SAMPLE | S94T000285 | | 0 | ORGVOL01 | SOLID | N/A | Θ | | mL |
| 6 | SAMPLE | S94T000324 | | 0 | ORGVOL01 | SOLID | N/A | Θ | | mL |
| 7 | SAMPLE | S94T000325 | | 0 | ORGVOL01 | SOLID | N/A | Θ | | mL |
| 8 | SAMPLE | S94T000328 | | 0 | ORGVOL01 | SOLID | N/A | Θ | | mL |
| 9 | SAMPLE | S94T000286 | | 0 | ORGVOL01 | SOLID | N/A | Θ | | mL |
| 10 | SAMPLE | S94T000323 | | 0 | ORGVOL01 | SOLID | N/A | Θ | | mL |
| 11 | SAMPLE | S94T000322 | | 0 | ORGVOL01 | SOLID | N/A | Θ | | mL |
| 12 | SAMPLE | S94T000286 | | 0 | FSLDWT01 | SOLID | N/A | Θ | | g |
| 13 | SAMPLE | S94T000323 | | 0 | FSLDWT01 | SOLID | N/A | Θ | | g |
| 14 | SAMPLE | S94T000322 | | 0 | FSLDWT01 | SOLID | N/A | Θ | | g |
| 15 | SAMPLE | S94T000235 | | 0 | FSLDWT01 | SOLID | N/A | Θ | | g |
| 16 | SAMPLE | S94T000236 | | 0 | FSLDWT01 | SOLID | N/A | Θ | | g |
| 17 | SAMPLE | S94T000285 | | 0 | FSLDWT01 | SOLID | N/A | Θ | | g |
| 18 | SAMPLE | S94T000324 | | 0 | FSLDWT01 | SOLID | N/A | Θ | | g |
| 19 | SAMPLE | S94T000325 | | 0 | FSLDWT01 | SOLID | N/A | Θ | | g |
| 20 | SAMPLE | S94T000328 | | 0 | FSLDWT01 | SOLID | N/A | Θ | | g |

*Data Entry Comments:*

Reviewed by [signature] 12-21-99

*Units shown for QC (SPK) may not reflect the actual units.*

LABCORE Data Entry Template for Worklist# 308

Analyst: _____ Instrument: BA000 _____ Method: LA-548-141

Worklist Comment: BY-106 C64 OrgVol/Fsld Backlog

| Seg | Type | Sample# | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|

Final page for worklist # 308

Analyst Signature

12-21-94
Date

12-21-94

*Data Entry Comments:*

Reviewed by 12-21-94

*Units shown for QC (SPK) may not reflect the actual units.*

**LABCORE Data Entry Template for Worklist# 404**

**Analyst:** EC/RKF **Instrument:** BA000 _____ **Method:** LO-160-103 A6

**Worklist Comment:** BY-106 C64 FSLD, ARCHIVE, ORGVOL

| Seg | Type | Sample# | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | EXTRUD01 | SOLID | 500 | 499.95 | N/A | |
| 3 | SAMPLE | S95T000005 | 0 X | ARCHIVE | SOLID | N/A | 15.95 | | g |
| 4 | SAMPLE | S95T000006 | 0 X | ARCHIVE | SOLID | N/A | 32.81 | | g |
| 5 | SAMPLE | S95T000007 | 0 X | ARCHIVE | SOLID | N/A | 20.76 | | g |
| 6 | SAMPLE | S95T000008 | 0 X | ARCHIVE | SOLID | N/A | 33.38 | | g |
| 7 | SAMPLE | S95T000009 | 0 X | ARCHIVE | SOLID | N/A | 41.81 | | g |
| 8 | SAMPLE | S95T000010 | 0 X | ARCHIVE | SOLID | N/A | 41.86 | | g |
| 9 | SAMPLE | S95T000011 | 0 X | ARCHIVE | SOLID | N/A | 48.19 | | g |
| 10 | SAMPLE | S95T000012 | 0 X | ARCHIVE | SOLID | N/A | 42.37 | | g |
| 11 | SAMPLE | S95T000013 | 0 X | ARCHIVE | SOLID | N/A | 49.54 | | g |
| 12 | SAMPLE | S95T000014 | 0 X | ARCHIVE | SOLID | N/A | 14.85 | | g |
| 13 | SAMPLE | S95T000015 | 0 X | ARCHIVE | SOLID | N/A | 38.29 | | g |
| 14 | SAMPLE | S95T000016 | 0 X | ARCHIVE | SOLID | N/A | 26.58 | | g |
| 15 | SAMPLE | S95T000017 | 0 X | ARCHIVE | SOLID | N/A | 65.75 | | g |
| 16 | SAMPLE | S95T000018 | 0 X | ARCHIVE | SOLID | N/A | 7.08 | | g |
| 17 | SAMPLE | S95T000021 | 0 X | ARCHIVE | SOLID | N/A | 13.96 | | g |
| 18 | SAMPLE | S95T000019 | 0 X | ARCHIVE | LIQUID | N/A | 45.22 | | g |
| 19 | SAMPLE | S95T000020 | 0 X | ARCHIVE | LIQUID | N/A | 35.36 | | g |
| 20 | SAMPLE | S94T000398 | 0 | ORGVOL01 | LIQUID | N/A | 0 | | mL |

*Data Entry Comments:*
Data posted 1/17/95 by RK Fuller

*Units shown for QC (SPK) may not reflect the actual units.*

LABCORE Data Entry Template for Worklist# 404

Analyst: _____ Instrument: BA000 _____ Method: LA-519-151

Worklist Comment: BY-106 C64 FSLD, ARCHIVE, ORGVOL

| Seg | Type | Sample# | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|
| 21 | SAMPLE | S95T000003 | 0 | ORGVOL01 | LIQUID | N/A | 0 | | mL |
| 22 | SAMPLE | S94T000388 | 0 | ORGVOL01 | LIQUID | N/A | 0 | | mL |

Final page for worklist # 404

Analyst Signature

1-17-95
Date

*Data Entry Comments:*

*Units shown for QC (SPK) may not reflect the actual units.*

LABCORE Data Entry Template for Worklist# 317

Analyst: EC Instrument: BA000 _____ Method: LO-160-103 A-6

Worklist Comment: BY-106 C64 Field Blank

| Seg | Type | Sample# | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | EXTRUD01 | SOLID | 500 | 499.77 | N/A | |
| 3 | SAMPLE | S94T000366 | 0 | DLIQVOL1 | LIQUID | N/A | 290 | | mL |
| 4 | SAMPLE | S94T000366 | 0 | DLIQWT01 | LIQUID | N/A | 287 | | g |
| 5 | SAMPLE | S94T000366 | 0 | EST.G/ML | LIQUID | N/A | 1.0 | | g/mL |
| 6 | SAMPLE | S94T000366 | 0 | EXTRUD01 | LIQUID | N/A | complete | | |
| 7 | SAMPLE | S94T000366 | 0 | LLIQWT01 | LIQUID | N/A | 0 | | g |
| 8 | SAMPLE | S94T000366 | 0 | NOTEBOOK | LIQUID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S94T000366 | 0 | SLDVOL01 | LIQUID | N/A | 0 | | mL |
| 10 | SAMPLE | S94T000366 | 0 | SLDWT-01 | LIQUID | N/A | 0 | | g |
| 11 | SAMPLE | S94T000366 | 0 | FSLDWT01 | LIQUID | N/A | 0 | | g |
| 12 | SAMPLE | S94T000366 | 0 | ORGVOL01 | LIQUID | N/A | 0 | | mL |

Final page for worklist # 317

EHL

Analyst Signature

12-27-94

Date

*Data Entry Comments:*

Worklist posted 12/27/94. RK Fuller

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

LABCORE Data Entry Template for Worklist# 466

Analyst: EC Instrument: BA000 _____ Method: LO-160-103 A-7

Worklist Comment: BY-106 C65 Seg 1 Extrusion

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.94 | N/A | |
| 3 | SAMPLE | S95T000035 | | 0 | DLIQVOL1 | SOLID | N/A | 305 | | mL |
| 4 | SAMPLE | S95T000035 | | 0 | DLIQWT01 | SOLID | N/A | 427 | | g |
| 5 | SAMPLE | S95T000035 | | 0 | EST.G/ML | SOLID | N/A | 1.40 | | g/mL |
| 6 | SAMPLE | S95T000035 | | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S95T000035 | | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S95T000035 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N1996 | | |
| 9 | SAMPLE | S95T000035 | | 0 | SLDVOL01 | SOLID | N/A | 6 | | mL |
| 10 | SAMPLE | S95T000035 | | 0 | SLDWT-01 | SOLID | N/A | 11 | | g |
| 11 | SAMPLE | S95T000035 | | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| 12 | SAMPLE | S95T000035 | | 0 | FSLDWT01 | SOLID | N/A | 0 | | g |

Final page for worklist # 466

Analyst Signature: [signature] Date: 1-27-95

[signature] 02-08-95

*Data Entry Comments:*

Reviewed by [signature]

*Units shown for QC (SPK) may not reflect the actual units.* *Page:* 1

**LABCORE Data Entry Template for Worklist# 467**

**Analyst:** EC **Instrument:** BA000 **Method:** LO-160-103 A-7

**Worklist Comment:** BY-106 C65 Seg 2 Extrusion

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 g | 19.98 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 g | 499.94 | N/A | |
| 3 | SAMPLE | S95T000036 | | 0 | DLIQVOL1 | SOLID | N/A | 305 | | mL |
| 4 | SAMPLE | S95T000036 | | 0 | DLIQWT01 | SOLID | N/A | 428 | | g |
| 5 | SAMPLE | S95T000036 | | 0 | EST.G/ML | SOLID | N/A | 1.40 | | g/mL |
| 6 | SAMPLE | S95T000036 | | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S95T000036 | | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S95T000036 | | 0 | NOTEBOOK | SOLID | N/A | WHC-446 | | |
| 9 | SAMPLE | S95T000036 | | 0 | SLDVOL01 | SOLID | N/A | 9 | | mL |
| 10 | SAMPLE | S95T000036 | | 0 | SLDWT-01 | SOLID | N/A | 22 | | g |
| 11 | SAMPLE | S95T000036 | | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| 12 | SAMPLE | S95T000036 | | 0 | FSLDWT01 | SOLID | N/A | 0 | | g |

**Final page for worklist # 467**

E. [illegible] 1-30-95
**Analyst Signature** **Date**

[illegible] 02-08-95

*Data Entry Comments:*

Reviewed by [illegible]

*Units shown for QC (SPK) may not reflect the actual units.* *Page:* 1

LABCORE Data Entry Template for Worklist# 468

Analyst: _____ Instrument: BA000 _____ Method: LO-160-103 H-7

Worklist Comment: BY-106 C65 Seg 3 Extrusion

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.96 | N/A | |
| 3 | SAMPLE | S95T000037 | | 0 | DLIQVOL1 | SOLID | N/A | 3.05 | | mL |
| 4 | SAMPLE | S95T000037 | | 0 | DLIQWT01 | SOLID | N/A | 429 | | g |
| 5 | SAMPLE | S95T000037 | | 0 | EST.G/ML | SOLID | N/A | 1.40 | | g/mL |
| 6 | SAMPLE | S95T000037 | | 0 | EXTRUD01 | SOLID | N/A | Complete | | |
| 7 | SAMPLE | S95T000037 | | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S95T000037 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S95T000037 | | 0 | SLDVOL01 | SOLID | N/A | 15 | | mL |
| 10 | SAMPLE | S95T000037 | | 0 | SLDWT-01 | SOLID | N/A | 21 | | g |
| 11 | SAMPLE | S95T000037 | | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| 12 | SAMPLE | S95T000037 | | 0 | FSLDWT01 | SOLID | N/A | 0 | | g |

Final page for worklist # 468

Analyst Signature

Date 1-30-95

02-08-95

*Data Entry Comments:*

Reviewed by

*Units shown for QC (SPK) may not reflect the actual units.* *Page:* 1

LABCORE Data Entry Template for Worklist# 460

Analyst: EC Instrument: BA000 _____ Method: LO-160-103 A-7

Worklist Comment: BY-106 C65 Seg 4 Extrusion

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 20.01 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.96 | N/A | |
| 3 | SAMPLE | S95T000039 | | 0 | DLIQVOL1 | SOLID | N/A | 300 | | mL |
| 4 | SAMPLE | S95T000039 | | 0 | DLIQWT01 | SOLID | N/A | 411.74 | | g |
| 5 | SAMPLE | S95T000039 | | 0 | EST.G/ML | SOLID | N/A | 1.37 | | g/mL |
| 6 | SAMPLE | S95T000039 | | 0 | EXTRUD01 | SOLID | N/A | Complete | | |
| 7 | SAMPLE | S95T000039 | | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S95T000039 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S95T000039 | | 0 | SLDVOL01 | SOLID | N/A | 15 | | mL |
| 10 | SAMPLE | S95T000039 | | 0 | SLDWT-01 | SOLID | N/A | 42.01 | | g |
| 11 | SAMPLE | S95T000039 | | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| 12 | SAMPLE | S95T000039 | | 0 | FSLDWT01 | SOLID | N/A | 0 | | g |

Final page for worklist # 460

Analyst Signature

1-26-95
Date
02-08-95

*Data Entry Comments:*

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

LABCORE Data Entry Template for Worklist# 461

Analyst: EC Instrument: BA000 _____ Method: LO-160-103 A-7

Worklist Comment: BY-106 C65 Seg 5 Extrusion

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 20.00 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.95 | N/A | |
| 3 | SAMPLE | S95T000040 | | 0 | DLIQVOL1 | SOLID | N/A | 295 | | mL |
| 4 | SAMPLE | S95T000040 | | 0 | DLIQWT01 | SOLID | N/A | 409 | | g |
| 5 | SAMPLE | S95T000040 | | 0 | EST.G/ML | SOLID | N/A | 1.40 | | g/mL |
| 6 | SAMPLE | S95T000040 | | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S95T000040 | | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S95T000040 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S95T000040 | | 0 | SLDVOL01 | SOLID | N/A | 15 | | mL |
| 10 | SAMPLE | S95T000040 | | 0 | SLDWT-01 | SOLID | N/A | 34.58 | | g |
| 11 | SAMPLE | S95T000040 | | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| 12 | SAMPLE | S95T000040 | | 0 | FSLDWT01 | SOLID | N/A | 0 | | g |

Final page for worklist # 461

Analyst Signature

1-26-95
Date

02-08-95

*Data Entry Comments:*

Verified by

*Units shown for QC (SPK) may not reflect the actual units.*

LABCORE Data Entry Template for Worklist# 462

Analyst: EC Instrument: BA000 Method: LO-160-103 A-7

Worklist Comment: BY-106 C65 Seg 5A Extrusion

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.96 | N/A | |
| 3 | SAMPLE | S95T000041 | | 0 | DLIQVOL1 | SOLID | N/A | 0 | | mL |
| 4 | SAMPLE | S95T000041 | | 0 | DLIQWT01 | SOLID | N/A | 0 | | g |
| 5 | SAMPLE | S95T000041 | | 0 | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 6 | SAMPLE | S95T000041 | | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S95T000041 | | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S95T000041 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S95T000041 | | 0 | SLDVOL01 | SOLID | N/A | 0 | | mL |
| 10 | SAMPLE | S95T000041 | | 0 | SLDWT-01 | SOLID | N/A | .30 | | g |
| 11 | SAMPLE | S95T000041 | | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| 12 | SAMPLE | S95T000041 | | 0 | FSLDWT01 | SOLID | N/A | 0 | | g |

Final page for worklist # 462

Analyst Signature

1-31-95
Date
02-08-95

*Data Entry Comments:*

Reviewed by

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

LABCORE Data Entry Template for Worklist# 463

Analyst: SC Instrument: BA000 _____ Method: LO-160-103 A-7

Worklist Comment: BY-106 C65 Seg 6 Extrusion

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 20.00 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.94 | N/A | |
| 3 | SAMPLE | S95T000042 | | 0 | DLIQVOL1 | SOLID | N/A | 300 | | mL |
| 4 | SAMPLE | S95T000042 | | 0 | DLIQWT01 | SOLID | N/A | 423 | | g |
| 5 | SAMPLE | S95T000042 | | 0 | EST.G/ML | SOLID | N/A | 1.40 | | g/mL |
| 6 | SAMPLE | S95T000042 | | 0 | EXTRUD01 | SOLID | N/A | Complete | | |
| 7 | SAMPLE | S95T000042 | | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S95T000042 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N-1996 | | |
| 9 | SAMPLE | S95T000042 | | 0 | SLDVOL01 | SOLID | N/A | 9 | | mL |
| 10 | SAMPLE | S95T000042 | | 0 | SLDWT-01 | SOLID | N/A | 23 | | g |
| 11 | SAMPLE | S95T000042 | | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| 12 | SAMPLE | S95T000042 | | 0 | FSLDWT01 | SOLID | N/A | 0 | | g |

Final page for worklist # 463

Analyst Signature

1-27-95
Date

02-08-95

*Data Entry Comments:*

Reviewed by

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

**LABCORE Data Entry Template for Worklist# 464**

**Analyst:** EL **Instrument:** BA000 _____ **Method:** LO-160-103 A-7

**Worklist Comment:** BY-106 C65 Seg 7 Extrusion

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.95 | N/A | |
| 3 | SAMPLE | S95T000043 | | 0 | DLIQVOL1 | SOLID | N/A | 300 | | mL |
| 4 | SAMPLE | S95T000043 | | 0 | DLIQWT01 | SOLID | N/A | 422 | | g |
| 5 | SAMPLE | S95T000043 | | 0 | EST.G/ML | SOLID | N/A | 1.34 | | g/mL |
| 6 | SAMPLE | S95T000043 | | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S95T000043 | | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S95T000043 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S95T000043 | | 0 | SLDVOL01 | SOLID | N/A | 9 | | mL |
| 10 | SAMPLE | S95T000043 | | 0 | SLDWT-01 | SOLID | N/A | 26 | | g |
| 11 | SAMPLE | S95T000043 | | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| 12 | SAMPLE | S95T000043 | | 0 | FSLDWT01 | SOLID | N/A | 0 | | g |

**Final page for worklist # 464**

**Analyst Signature** 1-26-95

**Date** 02-08-95

*Data Entry Comments:*

Reviewed by

*Units shown for QC (SPK) may not reflect the actual units.* *Page:* 1

LABCORE Data Entry Template for Worklist# 465

Analyst: Instrument: BA000 Method: LO-160-103 A-7

Worklist Comment: BY-106 C65 Seg 8 Extrusion

| Seg | Type | Sample# | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | EXTRUD01 | SOLID | 20.00 | 19.998 | N/A | |
| 2 | INSTCHK02 | | | EXTRUD01 | SOLID | 500 | 499.956 | N/A | |
| 3 | SAMPLE | S95T000044 | 0 | DLIQVOL1 | SOLID | N/A | 290 | | mL |
| 4 | SAMPLE | S95T000044 | 0 | DLIQWT01 | SOLID | N/A | 394 | | g |
| 5 | SAMPLE | S95T000044 | 0 | EST.G/ML | SOLID | N/A | 1.40 | | g/mL |
| 6 | SAMPLE | S95T000044 | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S95T000044 | 0 | LLIQWT01 | SOLID | N/A | C | | g |
| 8 | SAMPLE | S95T000044 | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S95T000044 | 0 | SLDVOL01 | SOLID | N/A | 18 | | mL |
| 10 | SAMPLE | S95T000044 | 0 | SLDWT-01 | SOLID | N/A | 44 | | g |
| 11 | SAMPLE | S95T000044 | 0 | ORGVOL01 | SOLID | N/A | C | | mL |
| 12 | SAMPLE | S95T000044 | 0 | FSLDWT01 | SOLID | N/A | C | | g |

Final page for worklist # 465

R. Hunter
Analyst Signature

1-26-95
Date

02/08/95

*Data Entry Comments:*

Reviewed by

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

**LABCORE Data Entry Template for Worklist# 492**

**Analyst:** _____ **Instrument:** BA000 _____ **Method:** LO-160-103

**Worklist Comment:** BY-106 C65 Seg 9 Extrusion

| Seg | Type | Sample# | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | EXTRUD01 | SOLID | 20 | 20.00 | N/A | |
| 2 | INSTCHK02 | | | EXTRUD01 | SOLID | 500 | 499.96 | N/A | |
| 3 | SAMPLE | S95T000078 | 0 | DLIQVOL1 | SOLID | N/A | 0 | | mL |
| 4 | SAMPLE | S95T000078 | 0 | DLIQWT01 | SOLID | N/A | 0 | | g |
| 5 | SAMPLE | S95T000078 | 0 | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 6 | SAMPLE | S95T000078 | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S95T000078 | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S95T000078 | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S95T000078 | 0 | SLDVOL01 | SOLID | N/A | 6.83 | | mL |
| 10 | SAMPLE | S95T000078 | 0 | SLDWT-01 | SOLID | N/A | 9.56 | | g |
| 11 | SAMPLE | S95T000078 | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| ~~12~~ | ~~SAMPLE~~ | ~~S95T000078~~ | ~~0~~ | ~~FSLDWT01~~ ABB 2/8/95 | ~~SOLID~~ | ~~N/A~~ | ~~0~~ | | ~~g~~ |

deleted by Kevin Bell

**Final page for worklist # 492**

**Analyst Signature** 2-8-95 **Date** 02-8-95

*Data Entry Comments:*

Reviewed by

*Units shown for QC (SPK) may not reflect the actual units.*

**LABCORE Data Entry Template for Worklist# 493**

**Analyst:** SC **Instrument:** BA000 _____ **Method:** LO-160-103 A-7

**Worklist Comment:** BY-106 C65 Seg 10 Extrusion

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 20.00 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.95 | N/A | |
| 3 | SAMPLE | S95T000079 | | 0 | DLIQVOL1 | SOLID | N/A | 275 | | mL |
| 4 | SAMPLE | S95T000079 | | 0 | DLIQWT01 | SOLID | N/A | 362 | | g |
| 5 | SAMPLE | S95T000079 | | 0 | EST.G/ML | SOLID | N/A | 1.32 | | g/mL |
| 6 | SAMPLE | S95T000079 | | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S95T000079 | | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S95T000079 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S95T000079 | | 0 | SLDVOL01 | SOLID | N/A | 31 | | mL |
| 10 | SAMPLE | S95T000079 | | 0 | SLDWT-01 | SOLID | N/A | 90.32 | | g |
| 11 | SAMPLE | S95T000079 | | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| 12 | SAMPLE | S95T000079 | | 0 | FSLDWT01 | SOLID | N/A | 0 | | g |

**Final page for worklist # 493**

Analyst Signature

2-9-95
Date
13 Feb. 95

*Data Entry Comments:*

Reviewed by

*Units shown for QC (SPK) may not reflect the actual units.* *Page:* 1

**LABCORE Data Entry Template for Worklist# 496**

**Analyst:** EC **Instrument:** BA000 _____ **Method:** LO-160-103 A-7

**Worklist Comment:** BY-106 C65 Seg 11 Extrusion

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.94 | N/A | |
| 3 | SAMPLE | S95T000080 | | 0 | DLIQVOL1 | SOLID | N/A | 70 | | mL |
| 4 | SAMPLE | S95T000080 | | 0 | DLIQWT01 | SOLID | N/A | 82 | | g |
| 5 | SAMPLE | S95T000080 | | 0 | EST.G/ML | SOLID | N/A | 1.18 | | g/mL |
| 6 | SAMPLE | S95T000080 | | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S95T000080 | | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S95T000080 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N-496 | | |
| 9 | SAMPLE | S95T000080 | | 0 | SLDVOL01 | SOLID | N/A | 3 | | mL |
| 10 | SAMPLE | S95T000080 | | 0 | SLDWT-01 | SOLID | N/A | 4 | | g |
| 11 | SAMPLE | S95T000080 | | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| 12 | SAMPLE | S95T000080 | | 0 | FSLDWT01 | SOLID | N/A | 0 | | g |

**Final page for worklist # 496**

E. H. C.
**Analyst Signature**

2-9-95
**Date**

Arthur B. Barney
13 Feb. 95

*Data Entry Comments:*

Reviewed by Arthur B. Barney.

*Units shown for QC (SPK) may not reflect the actual units.*

**LABCORE Data Entry Template for Worklist# 500**

**Analyst:** EC **Instrument:** BA000 _____ **Method:** LO-160-103 A-7

**Worklist Comment:** BY-106 C65 Seg 12 Extrusion

| Seg | Type | Sample# | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | EXTRUD01 | SOLID | 500 | 499.95 | N/A | |
| 3 | SAMPLE | S95T000081 | 0 | DLIQVOL1 | SOLID | N/A | 40 | | mL |
| 4 | SAMPLE | S95T000081 | 0 | DLIQWT01 | SOLID | N/A | 44 | | g |
| 5 | SAMPLE | S95T000081 | 0 | EST.G/ML | SOLID | N/A | 1.1 | | g/mL |
| 6 | SAMPLE | S95T000081 | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S95T000081 | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S95T000081 | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S95T000081 | 0 | SLDVOL01 | SOLID | N/A | 0 | | mL |
| 10 | SAMPLE | S95T000081 | 0 | SLDWT-01 | SOLID | N/A | 0 | | g |
| 11 | SAMPLE | S95T000081 | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| 12 | ~~SAMPLE~~ | ~~S95T000081~~ | ~~0~~ | ~~FSLDWT01~~ AND 2/13/95 | ~~SOLID~~ | ~~N/A~~ | ~~0~~ | | g |

Deleted by Kevin Bell

**Final page for worklist # 500**

**Analyst Signature** [signature]

**Date** 2-6-95

13 Feb 95

*Data Entry Comments:*

Reviewed by [signature]

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

LABCORE Data Entry Template for Worklist# 501

Analyst: EC Instrument: BA000 _____ Method: LO-160-103 A-7

Worklist Comment: BY-106 C65 Seg 13 Extrusion

| Seg | Type | Sample# | | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 20.00 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.96 | N/A | |
| 3 | SAMPLE | S95T000082 | | 0 | DLIQVOL1 | SOLID | N/A | <5 | | mL |
| 4 | SAMPLE | S95T000082 | | 0 | DLIQWT01 | SOLID | N/A | 0 | | g |
| 5 | SAMPLE | S95T000082 | | 0 | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 6 | SAMPLE | S95T000082 | | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 7 | SAMPLE | S95T000082 | | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 8 | SAMPLE | S95T000082 | | 0 | NOTEBOOK | SOLID | N/A | WHC-N-996 | | |
| 9 | SAMPLE | S95T000082 | | 0 | SLDVOL01 | SOLID | N/A | 93 | | mL |
| 10 | SAMPLE | S95T000082 | | 0 | SLDWT-01 | SOLID | N/A | 131 | | g |
| 11 | SAMPLE | S95T000082 | | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |
| ~~12~~ | ~~SAMPLE~~ | ~~S95T000082~~ | | ~~0~~ | ~~FSLDWT01~~ ABB 2/6/95 | SOLID | N/A | ~~0~~ | | ~~g~~ |

Deleted by Kevin Boll

Final page for worklist # 501

Analyst Signature [signature] Date 2-6-95

[signature] 2-8-95

*Data Entry Comments:*

Reviewed by [signature]

*Units shown for QC (SPK) may not reflect the actual units.* *Page:* 1

# LABCORE Data Entry Template for Worklist# 621

**Analyst:** AB **Instrument:** BA000 **Method:** LO-160-103 4-7

**Worklist Comment:** BY-106 Core 65 DL Arch (seg's 1,2,3,4,5,6,7,8,& 10)

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | ~~19.98~~ 20.30 | N/A ABB 3/22/95 | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | ~~499.96~~ 500.12 | N/A ABB 3/22/95 | |
| 3 | SAMPLE | S95T000181 | 0 | X | ARCHIVE | LIQUID | N/A | 43.19 | | g |
| 4 | SAMPLE | S95T000182 | 0 | X | ARCHIVE | LIQUID | N/A | 43.68 | | g |
| 5 | SAMPLE | S95T000183 | 0 | X | ARCHIVE | LIQUID | N/A | 44.14 | | g |
| 6 | SAMPLE | S95T000184 | 0 | X | ARCHIVE | LIQUID | N/A | 43.83 | | g |
| 7 | SAMPLE | S95T000185 | 0 | X | ARCHIVE | LIQUID | N/A | 44.18 | | g |
| 8 | SAMPLE | S95T000186 | 0 | X | ARCHIVE | LIQUID | N/A | 43.99 | | g |
| 9 | SAMPLE | S95T000187 | 0 | X | ARCHIVE | LIQUID | N/A | 43.89 | | g |
| 10 | SAMPLE | S95T000188 | 0 | X | ARCHIVE | LIQUID | N/A | 43.99 | | g |
| 11 | SAMPLE | S95T000189 | 0 | X | ARCHIVE | LIQUID | N/A | 44.46 | | g |

## Final page for worklist # 621

Arlen B. Berry March 22, 95
**Analyst Signature** **Date**
reviewed by Arlen B. Berry

*Data Entry Comments:*

*Units shown for QC (SPK) may not reflect the actual units.*

# LABCORE Data Entry Template for Worklist# 622

**Analyst:** ABB **Instrument:** BA000 **Method:** LO-160-103 A-7

**Worklist Comment:** BY-106 C65 Segment # 1 thru # 10 Archive WHC-SD-WM-DP-103, REV. 1

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.99 | N/A | |
| 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.79 | N/A | |
| 3 | SAMPLE | S95T000190 | 0 | X6388 | ARCHIVE 6388 | SOLID | N/A | ~~7.6~~ 11.67 ABB | 5/2/95 | g |
| 4 | SAMPLE | S95T000191 | 0 | X6340 | ARCHIVE 6340 | SOLID | N/A | 26.701 | | g |
| 5 | SAMPLE | S95T000192 | 0 | X6400 | ARCHIVE 6400 | SOLID | N/A | 21.43 | | g |
| 6 | SAMPLE | S95T000193 | 0 | X6463 | ARCHIVE 7162 | SOLID | N/A | 34.21 | | g |
| 7 | SAMPLE | S95T000194 | 0 | X6404 | ARCHIVE 7163 | SOLID | N/A | 28.57 | | g |
| 8 | SAMPLE | S95T000195 | 0 | X6385 | ARCHIVE 6385 | SOLID | N/A | 29.31 | | g |
| 9 | SAMPLE | S95T000196 | 0 | X6386 | ARCHIVE 6386 | SOLID | N/A | 26.69 | | g |
| 10 | SAMPLE | S95T000197 | 0 | X6466 | ARCHIVE 7164 | SOLID | N/A | 34.07 | | g |
| 11 | SAMPLE | S95T000198 | 0 | X6404 | ARCHIVE 6404 | SOLID | N/A | 9.53 | | g |
| 12 | SAMPLE | S95T000199 | 0 | X6475 | ARCHIVE 7165 | SOLID | N/A | 69.09 | | g |

## Final page for worklist # 622

Analyst Signature

Date May 02 95

*Data Entry Comments:*

provisional pg 5/02/95

*Units shown for QC (SPK) may not reflect the actual units.*

# LABCORE Data Entry Template for Worklist# 1066

**Analyst:** SC **Instrument:** BA000 _____ **Book #** NA

**Method:** LO-160-103 Rev/Mod A-7

WHC-SD-WM-DP-103, REV. 1

**Worklist Comment:** BY-106 Archive Samples

| GROUP | PROJECT | S TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 20.00 | N/A | |
| | | 2 INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.97 | N/A | |
| 95000003 | BY-106 | 3 SAMPLE | S95T000338 | 0 | X | ARCHIVE 6402 | SOLID | N/A | 35.01 | | g |
| 95000003 | BY-106 | 4 SAMPLE | S95T000339 | 0 | X | ARCHIVE 6403 | SOLID | N/A | 37.05 | | g |
| 95000003 | BY-106 | 5 SAMPLE ? | S95T000336 | 0 | X 6536 | ARCHIVE 6423 | LIQUID | N/A | 39.66 | | g |
| 95000003 | BY-106 | 6 SAMPLE | S95T000337 | 0 | X | ARCHIVE 6398 | LIQUID | N/A | 37.93 | | g |

## Final page for worklist # 1066

S [illegible] 4-26-95
**Analyst Signature** **Date**

S [illegible] 4-26-95
**Analyst Signature** **Date**

*Data Entry Comments:* Reviewed / [illegible] 5/1/95

*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
12/19/95 10:25



# LABCORE Data Entry Template for Worklist# 4407

**Analyst:** CC **Instrument:** BA000 **Book #** NA

**Method:** LO-160-103 Rev/Mod A-7

**Worklist Comment:** BY-106 C121 SEG #1 RISER 5 EXTRUSION

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.97 | N/A | |
| | | 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.38 | N/A | |
| 95000229 | BY-106 | 3 | SAMPLE | S95T003985 | 0 | | DLIQVOL1 | SOLID | N/A | 0 | | mL |
| 95000229 | BY-106 | 4 | SAMPLE | S95T003985 | 0 | | DLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 5 | SAMPLE | S95T003985 | 0 | | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 95000229 | BY-106 | 6 | SAMPLE | S95T003985 | 0 | | EXTRUD01 | SOLID | N/A | Complete | | |
| 95000229 | BY-106 | 7 | SAMPLE | S95T003985 | 0 | | LLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 8 | SAMPLE | S95T003985 | 0 | | NOTEBOOK | SOLID | N/A | N-996 | | |
| 95000229 | BY-106 | 9 | SAMPLE | S95T003985 | 0 | | SLDWT-01 | SOLID | N/A | 10.6 | | g |
| 95000229 | BY-106 | 10 | SAMPLE | S95T003985 | 0 | | APPEAR01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 11 | SAMPLE | S95T003985 | 0 | | ORGVOL01 | SOLID | N/A | 0 | | mL |

## Final page for worklist # 4407

CC 12-21-95
**Analyst Signature** **Date**

CC 12-21-95
**Analyst Signature** **Date**

Reviewed by Arthur B. Berry 12-21-95

*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
12/19/95 10:26

~~WHC-SD-WM-DP-103, REV. 1~~ LAD 4-1-96



# LABCORE Data Entry Template for Worklist# 4408

**Analyst:** EC **Instrument:** BA000 _____ **Book #** NA

**Method:** LO-160-103 Rev/Mod A-7

**Worklist Comment:** BY-106 C121 SEG #2 RISER 5 EXTRUSION

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.97 | N/A | |
| | | 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.39 | N/A | |
| 95000229 | BY-106 | 3 | SAMPLE | S95T003986 | 0 | | DLIQVOL1 | SOLID | N/A | 0 | | mL |
| 95000229 | BY-106 | 4 | SAMPLE | S95T003986 | 0 | | DLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 5 | SAMPLE | S95T003986 | 0 | | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 95000229 | BY-106 | 6 | SAMPLE | S95T003986 | 0 | | EXTRUD01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 7 | SAMPLE | S95T003986 | 0 | | LLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 8 | SAMPLE | S95T003986 | 0 | | NOTEBOOK | SOLID | N/A | N-996 | | |
| 95000229 | BY-106 | 9 | SAMPLE | S95T003986 | 0 | | SLDWT-01 | SOLID | N/A | 101.1 | | g |
| 95000229 | BY-106 | 10 | SAMPLE | S95T003986 | 0 | | APPEAR01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 11 | SAMPLE | S95T003986 | 0 | | ORGVOL01 | SOLID | N/A | 0 | | mL |

## Final page for worklist # 4408

EC 12-21-95
**Analyst Signature** **Date**

EC 12-21-95
**Analyst Signature** **Date**

Reviewed by [illegible] 12-21-95

*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# 4409

**Analyst:** EC **Instrument:** BA000 _____ **Book #** NA

**Method:** LO-160-103 Rev/Mod A-7

**Worklist Comment:** BY-106 C121 SEG #3 RISER 5 EXTRUSION

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.97 | N/A | |
| | | 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.39 | N/A | |
| 95000229 | BY-106 | 3 | SAMPLE | S95T003987 | 0 | | DLIQVOL1 | SOLID | N/A | 0 | | mL |
| 95000229 | BY-106 | 4 | SAMPLE | S95T003987 | 0 | | DLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 5 | SAMPLE | S95T003987 | 0 | | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 95000229 | BY-106 | 6 | SAMPLE | S95T003987 | 0 | | EXTRUD01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 7 | SAMPLE | S95T003987 | 0 | | LLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 8 | SAMPLE | S95T003987 | 0 | | NOTEBOOK | SOLID | N/A | W-996 | | |
| 95000229 | BY-106 | 9 | SAMPLE | S95T003987 | 0 | | SLDWT-01 | SOLID | N/A | 298.7 | | g |
| 95000229 | BY-106 | 10 | SAMPLE | S95T003987 | 0 | | APPEAR01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 11 | SAMPLE | S95T003987 | 0 | | ORGVOL01 | SOLID | N/A | 0 | | mL |

## Final page for worklist # 4409

[signature] 12-20-95
**Analyst Signature** **Date**

[signature] 12-20-95
**Analyst Signature** **Date**

Reviewed by [signature] 12-21-95

*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
12/19/95 10:30

~~WHC-SD-WM-DP-103, REV. 1~~ LAD 4-1-96



# LABCORE Data Entry Template for Worklist# 4410

**Analyst:** EC **Instrument:** BA000 _____ **Book #** NA

**Method:** LO-160-103 Rev/Mod A-7

**Worklist Comment:** BY-106 C121 SEG #4 RISER 5 EXTRUSION

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.97 | N/A | |
| | | 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.39 | N/A | |
| 95000229 | BY-106 | 3 | SAMPLE | S95T003988 | | 0 | DLIQVOL1 | SOLID | N/A | 0 | | mL |
| 95000229 | BY-106 | 4 | SAMPLE | S95T003988 | | 0 | DLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 5 | SAMPLE | S95T003988 | | 0 | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 95000229 | BY-106 | 6 | SAMPLE | S95T003988 | | 0 | EXTRUD01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 7 | SAMPLE | S95T003988 | | 0 | LLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 8 | SAMPLE | S95T003988 | | 0 | NOTEBOOK | SOLID | N/A | N-996 | | |
| 95000229 | BY-106 | 9 | SAMPLE | S95T003988 | | 0 | SLDWT-01 | SOLID | N/A | 355.6 | | g |
| 95000229 | BY-106 | 10 | SAMPLE | S95T003988 | | 0 | APPEAR01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 11 | SAMPLE | S95T003988 | | 0 | ORGVOL01 | SOLID | N/A | 0 | | mL |

## Final page for worklist # 4410

EC 12-21-95
Analyst Signature Date

EC 12-21-95
Analyst Signature Date

Reviewed by [illegible] 12-21-95

*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
12/19/95 10:31

~~WHC-SD-WM-DP-103, REV. 1~~ 4-1-96 LAD



# LABCORE Data Entry Template for Worklist# 4411

**Analyst:** EC **Instrument:** BA000 **Book #** NA

**Method:** LO-160-103 Rev/Mod A-7

**Worklist Comment:** BY-106 C121 SEG #5 RISER 5 EXTRUSION

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.97 | N/A | |
| | | 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.39 | N/A | |
| 95000229 | BY-106 | 3 | SAMPLE | S95T003989 | 0 | | DLIQVOL1 | SOLID | N/A | 0 | | mL |
| 95000229 | BY-106 | 4 | SAMPLE | S95T003989 | 0 | | DLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 5 | SAMPLE | S95T003989 | 0 | | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 95000229 | BY-106 | 6 | SAMPLE | S95T003989 | 0 | | EXTRUD01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 7 | SAMPLE | S95T003989 | 0 | | LLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 8 | SAMPLE | S95T003989 | 0 | | NOTEBOOK | SOLID | N/A | N-996 | | |
| 95000229 | BY-106 | 9 | SAMPLE | S95T003989 | 0 | | SLDWT-01 | SOLID | N/A | 234.3 | | g |
| 95000229 | BY-106 | 10 | SAMPLE | S95T003989 | 0 | | APPEAR01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 11 | SAMPLE | S95T003989 | 0 | | ORGVOL01 | SOLID | N/A | 0 | | mL |

## Final page for worklist # 4411

EC 12-21-95 — Analyst Signature Date

EC 12-21-95 — Analyst Signature Date

Reviewed by Anthony B Ruff 12-21-95

*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# 4412

**Analyst:** EC **Instrument:** BA000 **Book #** NA

**Method:** LO-160-103 Rev/Mod A-7

**Worklist Comment:** BY-106 C121 SEG #6 RISER 5 EXTRUSION

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.97 | N/A | |
| | | 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.39 | N/A | |
| 95000229 | BY-106 | 3 | SAMPLE | S95T003990 | 0 | | DLIQVOL1 | SOLID | N/A | 0 | | mL |
| 95000229 | BY-106 | 4 | SAMPLE | S95T003990 | 0 | | DLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 5 | SAMPLE | S95T003990 | 0 | | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 95000229 | BY-106 | 6 | SAMPLE | S95T003990 | 0 | | EXTRUD01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 7 | SAMPLE | S95T003990 | 0 | | LLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 8 | SAMPLE | S95T003990 | 0 | | NOTEBOOK | SOLID | N/A | N996 | | |
| 95000229 | BY-106 | 9 | SAMPLE | S95T003990 | 0 | | SLDWT-01 | SOLID | N/A | 286.1 | | g |
| 95000229 | BY-106 | 10 | SAMPLE | S95T003990 | 0 | | APPEAR01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 11 | SAMPLE | S95T003990 | 0 | | ORGVOL01 | SOLID | N/A | 0 | | mL |

## Final page for worklist # 4412

EC 12-21-95
**Analyst Signature** **Date**

EC 12-21-95
**Analyst Signature** **Date**

Reviewed by Arth. B. Berry 12-21-95

*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# 4413

**Analyst:** EC **Instrument:** BA000 **Book #** NA

**Method:** LO-160-103 Rev/Mod A+7

**Worklist Comment:** BY-106 C121 SEG #7 RISER 5 EXTRUSION

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.97 | N/A | |
| | | 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.39 | N/A | |
| 95000229 | BY-106 | 3 | SAMPLE | S95T003991 | 0 | | DLIQVOL1 | SOLID | N/A | 0 | | mL |
| 95000229 | BY-106 | 4 | SAMPLE | S95T003991 | 0 | | DLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 5 | SAMPLE | S95T003991 | 0 | | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 95000229 | BY-106 | 6 | SAMPLE | S95T003991 | 0 | | EXTRUD01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 7 | SAMPLE | S95T003991 | 0 | | LLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 8 | SAMPLE | S95T003991 | 0 | | NOTEBOOK | SOLID | N/A | N-996 | | |
| 95000229 | BY-106 | 9 | SAMPLE | S95T003991 | 0 | | SLDWT-01 | SOLID | N/A | 234.9 | | g |
| 95000229 | BY-106 | 10 | SAMPLE | S95T003991 | 0 | | APPEAR01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 11 | SAMPLE | S95T003991 | 0 | | ORGVOL01 | SOLID | N/A | 0 | | mL |

## Final page for worklist # 4413

[signature] 12-21-95
**Analyst Signature** **Date**

[signature] 12-21-95
**Analyst Signature** **Date**

Reviewed by [signature] 12-21-95

*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
01/02/96 14:44



# LABCORE Data Entry Template for Worklist# 4604

**Analyst:** EC **Instrument:** BA000 **Book #** NA

**Method:** LO-160-103 Rev/Mod A-7

**Worklist Comment:** BY-106 C121 SEG #10 RISER 5 EXTRUSION

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.97 | N/A | |
| | | 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.39 | N/A | |
| 95000229 | BY-106 | 3 | SAMPLE | S95T004143 | 0 | | DLIQVOL1 | SOLID | N/A | 0 | | mL |
| 95000229 | BY-106 | 4 | SAMPLE | S95T004143 | 0 | | DLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 5 | SAMPLE | S95T004143 | 0 | | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 95000229 | BY-106 | 6 | SAMPLE | S95T004143 | 0 | | EXTRUD01 | SOLID | N/A | Complete | | |
| 95000229 | BY-106 | 7 | SAMPLE | S95T004143 | 0 | | LLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 8 | SAMPLE | S95T004143 | 0 | | NOTEBOOK | SOLID | N/A | N-996 | | |
| 95000229 | BY-106 | 9 | SAMPLE | S95T004143 | 0 | | SLDWT-01 | SOLID | ABG 1/8/96 N/A | 158.6 ~~150.6~~ | | g |
| 95000229 | BY-106 | 10 | SAMPLE | S95T004143 | 0 | | APPEAR01 | SOLID | N/A | Complete | | |
| 95000229 | BY-106 | 11 | SAMPLE | S95T004143 | 0 | | ORGVOL01 | SOLID | N/A | 0 | | mL |

## Final page for worklist # 4604

[signature] 1-8-96
**Analyst Signature** **Date**

[signature] 1-8-96
**Analyst Signature** **Date**

Reviewed by [signature] 1-8-96

*Data Entry Comments:*

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

worklistrpt Version 2.1 05/15/95
01/02/96 14:50

~~WHC-SD-WM-DP-103, REV. 1~~ LAD 4-1-96



# LABCORE Data Entry Template for Worklist# 4605

**Analyst:** EC **Instrument:** BA000 **Book #** NA

**Method:** LO-160-103 Rev/Mod A-7

**Worklist Comment:** BY-106 C121 SEG #10A RISER 5 EXTRUSION

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.97 | N/A | |
| | | 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.39 | N/A | |
| 95000229 | BY-106 | 3 | SAMPLE | S95T004144 | 0 | | DLIQVOL1 | SOLID | N/A | 0 | | mL |
| 95000229 | BY-106 | 4 | SAMPLE | S95T004144 | 0 | | DLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 5 | SAMPLE | S95T004144 | 0 | | EST.G/ML | SOLID | N/A | 0 | | g/mL |
| 95000229 | BY-106 | 6 | SAMPLE | S95T004144 | 0 | | EXTRUD01 | SOLID | N/A | Complete | | |
| 95000229 | BY-106 | 7 | SAMPLE | S95T004144 | 0 | | LLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 8 | SAMPLE | S95T004144 | 0 | | NOTEBOOK | SOLID | N/A | N-996 | | |
| 95000229 | BY-106 | 9 | SAMPLE | S95T004144 | 0 | | SLDWT-01 | SOLID | N/A | 4.1 | | g |
| 95000229 | BY-106 | 10 | SAMPLE | S95T004144 | 0 | | APPEAR01 | SOLID | N/A | Complete | | |
| 95000229 | BY-106 | 11 | SAMPLE | S95T004144 | 0 | | ORGVOL01 | SOLID | N/A | 0 | | mL |

## Final page for worklist # 4605

EC 1-8-96
**Analyst Signature** **Date**

Reviewed by Arlen B. Berg 1-8-96

EC 1-8-96
**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.*

# LABCORE Data Entry Template for Worklist# 4778

**Analyst:** EC **Instrument:** BA000 **Book #** NA

**Method:** LO-160-103 Rev/Mod A-7

**Worklist Comment:** BY-106 C121 SEG # 10B RISER 5 EXTRUSION

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.97 | N/A | |
| | | 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.39 | N/A | |
| 95000229 | BY-106 | 3 | SAMPLE | S96T000086 | 0 | | DLIQVOL1 | SOLID | N/A | 190 | | mL |
| 95000229 | BY-106 | 4 | SAMPLE | S96T000086 | 0 | | DLIQWT01 | SOLID | N/A | 241.5 | | g |
| 95000229 | BY-106 | 5 | SAMPLE | S96T000086 | 0 | | EST.G/ML | SOLID | N/A | 1.27 | | g/mL |
| 95000229 | BY-106 | 6 | SAMPLE | S96T000086 | 0 | | EXTRUD01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 7 | SAMPLE | S96T000086 | 0 | | LLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 8 | SAMPLE | S96T000086 | 0 | | NOTEBOOK | SOLID | N/A | N-996 | | |
| 95000229 | BY-106 | 9 | SAMPLE | S96T000086 | 0 | | SLDWT-01 | SOLID | N/A | 207.9 | | g |
| 95000229 | BY-106 | 10 | SAMPLE | S96T000086 | 0 | | APPEAR01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 11 | SAMPLE | S96T000086 | 0 | | ORGVOL01 | SOLID | N/A | 0 | | mL |

## Final page for worklist # 4778

[signature] 1-16-96
**Analyst Signature** **Date**

[signature] 1-16-96
**Analyst Signature** **Date**

Reviewed by [signature] II
1-16-96

*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# 4779

**Analyst:** Ee **Instrument:** BA000 _____ **Book #** N/A

**Method:** LO-160-103 Rev/Mod A-7

**Worklist Comment:** BY-106 C121 FIELD BLANK RISER 5 EXTRUSION

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | INSTCHK01 | | | | EXTRUD01 | SOLID | 20 | 19.97 | N/A | |
| | | 2 | INSTCHK02 | | | | EXTRUD01 | SOLID | 500 | 499.29 | N/A | |
| 95000229 | BY-106 | 3 | SAMPLE | S96T000087 | 0 | | DLIQVOL1 | SOLID | N/A | 220 | | mL |
| 95000229 | BY-106 | 4 | SAMPLE | S96T000087 | 0 | | DLIQWT01 | SOLID | N/A | 202.1 | | g |
| 95000229 | BY-106 | 5 | SAMPLE | S96T000087 | 0 | | EST.G/ML | SOLID | N/A | .91 | | g/mL |
| 95000229 | BY-106 | 6 | SAMPLE | S96T000087 | 0 | | EXTRUD01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 7 | SAMPLE | S96T000087 | 0 | | LLIQWT01 | SOLID | N/A | 0 | | g |
| 95000229 | BY-106 | 8 | SAMPLE | S96T000087 | 0 | | NOTEBOOK | SOLID | N/A | N-996 | | |
| 95000229 | BY-106 | 9 | SAMPLE | S96T000087 | 0 | | SLDWT-01 | SOLID | N/A | ~~20~~ 0 | | g |
| 95000229 | BY-106 | 10 | SAMPLE | S96T000087 | 0 | | APPEAR01 | SOLID | N/A | complete | | |
| 95000229 | BY-106 | 11 | SAMPLE | S96T000087 | 0 | | ORGVOL01 | SOLID | N/A | 0 | | mL |

## Final page for worklist # 4779

[signature] 1-16-96
**Analyst Signature** **Date**

[signature] 1-16-96
**Analyst Signature** **Date**

Reviewed by Bertrand [signature] II
1-16-96

*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.*

# SAMPLE PREPARATIONS

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# LABCORE Data Entry Template for Worklist# 223

**Analyst:** EAL **Instrument:** FUS01 SNF04495 **Method:** LA-549-141 / C-2

**Worklist Comment:** BY-106 FUSION DIGEST - 305->306, 308->312 BOB CLEMENTS 5 M RAD

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK-PREP | | | | FUSION01 | SOLID | 250ml | 250ml | N/A | g/L |
| 2 | SAMPLE | S94T000306 | 0 | F | FUSION01 | SOLID | N/A | 1.7860 | | g/L |
| 3 | DUP | S94T000306 | 0 | F | FUSION01 | SOLID | 1.7860 | 1.7828 | N/A | g/L |
| 4 | SAMPLE | S94T000312 | 0 | F | FUSION01 | SOLID | N/A | 1.8060 | | g/L |
| 5 | DUP | S94T000312 | 0 | F | FUSION01 | SOLID | 1.8060 | 1.8160 | N/A | g/L |

## Final page for worklist # 223

Analyst Signature

12/19/94
Date

SAM 06 — 20ml HCL

$\frac{.4465g}{.250l} = 1.7860 g/l$

SAM DUP 06 — 20ml HCL

$\frac{.4457g}{.250l} = 1.7828 g/l$

SAM 312 — 20ml HCL

$\frac{.4515g}{.250l} = 1.8060 g/l$

SAM DUP 312 — 20 ml HCL

$\frac{.4540g}{.250l} = 1.8160 g/l$

*Data Entry Comments:* KOH IN. ALL SAMPLES SOLIDIFIED ~~AFTER~~ DURING STEP #7.13 WHEN $H_2O$ WAS ADDED SAMPLES RETURNED TO LIQUID FORM. REST OF PROCEDURE WENT PAR for the COURSE.

Bertrand Griffin II
12-20-94

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

# LABCORE Data Entry Template for Worklist# 226

**Analyst:** lmh **Instrument:** FUS01 SIUF04495 **Method:** LA-549-141 /C-2

**Worklist Comment:** BY-106 FUSION DIGEST - 309->314, 310->315

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK-PREP | | | | FUSION01 | SOLID | 250mL | 250mL | N/A | g/L |
| 2 | SAMPLE | S94T000314 | 0 | F | FUSION01 | SOLID | N/A | 2.4576 | | g/L |
| 3 | DUP | S94T000314 | 0 | F | FUSION01 | SOLID | 2.4576 | 2.4796 | N/A | g/L |
| 4 | SAMPLE | S94T000315 | 0 | F | FUSION01 | SOLID | N/A | 2.6772 | | g/L |
| 5 | DUP | S94T000315 | 0 | F | FUSION01 | SOLID | 2.6772 | 2.6688 | N/A | g/L |

## Final page for worklist # 226

**Analyst Signature** **Date** 12-12-94

SAMPLE: (.6144g → 250ml)

$\frac{.6144g}{.250l} = 2.4576 g/l$

DUP: (.6199g → 250ml)

$\frac{.6199g}{.250l} = 2.4796 g/l$

SAMPLE: (.6693g → 250ml)

$\frac{.6693g}{.250l} = 2.6772 g/l$

DUPLICATE: $\frac{.6672g}{.250l} =$ (.6672g → 250ml) → 2.6688 g/l

*Data Entry Comments:*

Bertrand Griffin II 12-20-94

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

# LABCORE Data Entry Template for Worklist# 227

**Analyst:** lmh **Instrument:** FUS01 28:F04495 **Method:** LA-549-141/C-2

**Worklist Comment:** BY-106 FUSION DIGEST - 311->316

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK-PREP | | | | FUSION01 | SOLID | .250 | .250 | N/A | g/L |
| 2 | SAMPLE | S94T000316 | 0 | F | FUSION01 | SOLID | N/A | 2.6484 | | g/L |
| 3 | DUP | S94T000316 | 0 | F | FUSION01 | SOLID | 2.6484 | 2.6588 | N/A | g/L |

## Final page for worklist # 227

Analyst Signature

Date 12-12-94

SAMPLE (316) .6621g → .250l

$$\frac{.6621g}{.250l} = 2.6484 g/l$$

DUPLICATE (316) .6647g → .250l

$$\frac{.6647g}{.250l} = 2.6588 g/l$$

*Data Entry Comments:* Bertrand Griffin II 12-20-94

*Units shown for QC (SPK) may not reflect the actual units.*

# LABCORE Data Entry Template for Worklist# 260

PJM

**Analyst:** [illegible] **Instrument:** FUS01 SNF04495 **Method:** LA-549-141 C2 Chuck Felder 4.5mr/hr @C

**Worklist Comment:** BY-106 FUSION DIGEST - 343->347, 344->348

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK-PREP | | | | FUSION01 | SOLID | 250mL | 250mL | N/A | g/L |
| 2 | SAMPLE | S94T000347 | 0 | F | FUSION01 | SOLID | N/A | 1.9048 | | g/L |
| 3 | DUP | S94T000347 | 0 | F | FUSION01 | SOLID | 1.9048 | 1.9152 | N/A | g/L |
| 4 | SAMPLE | S94T000348 | 0 | F | FUSION01 | SOLID | N/A | 1.9724 | | g/L |
| 5 | DUP | S94T000348 | 0 | F | FUSION01 | SOLID | 1.9724 | 1.9856 | N/A | g/L |

Ellen Lambert

## Final page for worklist # 260

Patrick J. McCown
**Analyst Signature**

12/16/94
**Date**

(47) 20mL CON HCl
$\frac{.4762g}{.250\ mL} = 1.9048\ g/l$

(47 DUP) 20mL CON HCl
$\frac{.4788g}{.250\ mL} = 1.9152\ g/l$

(48) 20mL CON HCl
$\frac{.4931g}{.250\ mL} = 1.9724\ g/l$

(48 DUP) 20mL CON HCl
$\frac{.4964g}{.250\ mL} = 1.9856\ g/l$

*Data Entry Comments:* Training batch. Procedure went very well.

*Units shown for QC (SPK) may not reflect the actual units.*

# LABCORE Data Entry Template for Worklist# 274

HAINES 3mr

**Analyst:** EAL **Instrument:** FUS013/NF04995 **Method:** LA-549-141 /C2

**Worklist Comment:** BY-106 FUSION DIGEST - 345->349

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK-PREP | | | | FUSION01 | SOLID | 250ml | 250ml | N/A | g/L |
| 2 | SAMPLE | S94T000349 | 0 | F | FUSION01 | SOLID | N/A | 1.8600 | | g/L |
| 3 | DUP | S94T000349 | 0 | F | FUSION01 | SOLID | 1.8600 | 1.8876 | N/A | g/L |

## Final page for worklist # 274

Ana Lambert
**Analyst Signature**

12/20/94
**Date**

SAM 349

$\frac{.4650 g}{.250 l} = 1.8600 g/l$

SAM 349 DUP

20ml HCL

$\frac{.4719 g}{.250 l} = 1.8876 g/l$

*Data Entry Comments:* 12-21-94

Bertrand Giffin II 12-28-94

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

# LABCORE Data Entry Template for Worklist# 292

**Analyst:** EAL **Instrument:** FUS01 S/N F04495 **Method:** LA-549-141 C-2

**Worklist Comment:** BY-106 FUSION DIGEST - 346->350 15 mrad

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK-PREP | | | | FUSION01 | SOLID | 250ml | 250ml | N/A | g/L |
| 2 | SAMPLE | S94T000350 | 0 | F | FUSION01 | SOLID | N/A | 2.0180 EAL | | g/L |
| 3 | DUP | S94T000350 | 0 | F | FUSION01 | SOLID | 2.0180 EAL | 2.0340 | N/A | g/L |

## Final page for worklist # 292

Analyst Signature

Date 12/21/94

SAMPLE 350

$\frac{.5045g}{.250\ell} = 2.080 g/\ell$

SAMPLE DUP 350

$\frac{.5085g}{.250\ell} = 2.0340 g/\ell$

*Data Entry Comments:*

Bertrand Griffin II 12-28-94

*Units shown for QC (SPK) may not reflect the actual units.*

**LABCORE Data Entry Template for Worklist# 309**

Analyst: EAL Instrument: FUS01 S/N F04495 Method: LA-549-141 C-2 Sig Landow

Worklist Comment: BY-106 C64 SEG10 UH/LH FUSION

374 = UH Fusion
375 = LH Fusion

| Seg | Type | Sample# | Rep | AlTest | Matrix | Actual | Found | DL | Uni |
|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK-PREP | | | FUSION01 | SOLID | 250ml | 250ml | N/A | g/L |
| 2 | SAMPLE | S94T000374 (72) | 0 F | FUSION01 | SOLID | N/A | 2.0320 | | g/L |
| 3 | DUP | S94T000374 | 0 F | FUSION01 | SOLID | 2.0320 | 2.0372 | N/A | g/L |
| 4 | SAMPLE | S94T000375 (73) | 0 F | FUSION01 | SOLID | N/A | 2.1472 | | g/L |
| 5 | DUP | S94T000375 | 0 F | FUSION01 | SOLID | 2.1472 | 2.1460 | N/A | g/L |

Final page for worklist # 309

Analyst Signature

Date 01/04/95

SAM 374 20ml HCL
$\frac{.5080g}{.250l} = 2.0320 g/l$

374 DUP 20ml HCL
$\frac{.5093g}{.250l} = 2.0372 g/l$

SAM 375 30ml HCL
$\frac{.5368g}{.250l} = 2.1472 g/l$

375 DUP 30ml HCL
$\frac{.5365g}{.250l} = 2.1460 g/l$

*Data Entry Comments:*

Bertrand Griffin II 1-9-95

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

# LABCORE Data Entry Template for Worklist# 325

**Analyst:** EAL/MCJ **Instrument:** FUS01 _____ **Method:** C-2 LA-549-141 Bob Clements 15mr

**Worklist Comment:** BY-106 FUSION DIGEST - 381->392, 390->393, 391->394

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK-PREP | | | | FUSION01 | SOLID | 250 | 250 | N/A | g/L |
| 2 | SAMPLE | S94T000392 | 0 | F | FUSION01 | SOLID | N/A | 1.8840 | | g/L |
| 3 | DUP | S94T000392 | 0 | F | FUSION01 | SOLID | 1.8840 | 1.8840 | N/A | g/L |
| 4 | SAMPLE | S94T000393 | 0 | F | FUSION01 | SOLID | N/A | 1.9400 | | g/L |
| 5 | DUP | S94T000393 | 0 | F | FUSION01 | SOLID | 1.9400 | 1.9360 | N/A | g/L |
| 6 | SAMPLE | S94T000394 | 0 | F | FUSION01 | SOLID | N/A | 1.9600 | | g/L |
| 7 | DUP | S94T000394 | 0 | F | FUSION01 | SOLID | 1.9600 | 1.9640 | N/A | g/L |

## Final page for worklist # 325

Hum Lambert / Mike Jones
**Analyst Signature**

01/09/95
**Date**

392 — 20ml HCL
.4710g / .250l = 1.8840g/l

392 Dup — 20ml HCL
.4710g / .250l = 1.8840g/l

393 — 20ml HCL
.4850g / .250l = 1.9400g/l

393 Dup — 20ml HCL
.4840g / .250l = 1.9360g/l

394 — 10ml HCL
.4900g / .250l = 1.9600g/l

394 DUP — 15ml HCL
.4910g / .250l = 1.9640g/l

*Data Entry Comments:* OJT TRAINING FOR ~~MIKE~~ MIKE EAL 01/09/95 JONES WAS CONDUCTED WITH THESE SAMPLES. EAL 01/09/95

Bertrand Griffin II 1-11-95

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

# LABCORE Data Entry Template for Worklist# 574

**Analyst:** EAL **Instrument:** FUS01 AL 11 Old 3-6-95 **Method:** LA-549-141 C2

Jim Evans

**Worklist Comment:** BY-106 ZR. FUSION - ~~98~~ > 100, ~~99~~ > 101

130 mr.

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK-PREP | | | | FUS-ZR01 | SOLID | 250ml | 250ml | N/A | g/L |
| 2 | SAMPLE | S95T000100 | 0 | Z | FUS-ZR01 | SOLID | N/A | 1.9644 g/l | | g/L |
| 3 | DUP | S95T000100 | 0 | Z | FUS-ZR01 | SOLID | 1.9644 | 1.9480 | N/A | g/L |
| 4 | SAMPLE | S95T000101 | 0 | Z | FUS-ZR01 | SOLID | N/A | 1.9040 | | g/L |
| 5 | DUP | S95T000101 | 0 | Z | FUS-ZR01 | SOLID | 1.9040 | 1.9260 | N/A | g/L |

## Final page for worklist # 574

E Ann Lambel
**Analyst Signature**

02/21/95
**Date**

100 $\frac{.4911}{.250}$ (20ml) = 1.9644 g/l

100 DUP $\frac{.4870}{.250}$ (20ml) = 1.9480 g/l

101 $\frac{.4760}{.250}$ (60ml) = 1.9040 g/l

101 DUP $\frac{.4815}{.250}$ (60ml) = 1.9260 g/l

*Data Entry Comments:* Sample number remains the same EAL 02/21/95
Sample 101 was dark orange. more acid and heat were added to stir process. finished sample 101 was bright yellow EAL 02/21/95

*Units shown for QC (SPK) may not reflect the actual units.*

Bertrand Huff II 2-28-95

*worklistrpt Version 2.0 02/21/95*
*03/23/95 07:29*



# LABCORE Data Entry Template for Worklist# 788

**Analyst:** MCJ **Instrument:** FUS01 AL11066 **Book #** _____

**Method:** LA-549-141 Rev/Mod C-2

**Worklist Comment:** BY-106 FUSION DIGEST - 98->322

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 BLNK-PREP | | | FUSION01 | SOLID | 250 mL | 250 mL | N/A | g/L |
| 95000007 | BY-106 | 2 SAMPLE | S95T000322 | 0 F | FUSION01 | SOLID | N/A | .5920 | | g/L |

## Final page for worklist # 788

Mike Jones 3.24.95
**Analyst Signature** **Date**

30mL HCL

Anthony Pierce 3-24-95
**Analyst Signature** **Date**

Bertrand Griffin II 3-24-95

322 $\frac{.148\ G}{.250\ L} = .5920\ G/L$

*Data Entry Comments:*

DoseRate < 0.5 mR/hr

BLK <0.5 mrad/hr 3-24-95

322 SAM

Bertrand Griffin II 3-24-95

*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# 890

**Analyst:** [illegible] **Instrument:** FUS01 AL110166 **Book #** WHC-N-678-1

**Method:** LA-549-141 Rev/Mod C-2

Bob Clemento 4-7-95 ~~1.75~~ mrad

**Worklist Comment:** BY-106 FUSION WITH ZR. CRUCIBLE - 84---> 85

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 BLNK-PREP | | | FUS-ZR01 | SOLID | 250ml | 250ml | N/A | g/L |
| 95000007 | BY-106 | 2 SAMPLE | S95T000085 | 0 Z | FUS-ZR01 | SOLID | N/A | 1.9404 | | g/L |
| 95000007 | BY-106 | 3 DUP | S95T000085 | 0 Z | FUS-ZR01 | SOLID | 1.9404 | 1.9480 | N/A | g/L |

## Final page for worklist # 890

Teresa Murphy 4-3-95
Analyst Signature Date

Glenn Lambel 04/03/95
Analyst Signature Date

Bertrand Griffin II 4-4-95

SAMPLE 85

$\frac{.4851g}{.250l} = 1.9404 g/l$

25 ml Con HCL

DUP 85

$\frac{.4870g}{.250l} = 1.9480 g/l$

25 ml Con HCL

Data Entry Comments: Very Small white particulates in samples. Final color Clear. Teresa's training sample. Original color pale green, with crystal like suspended material EAL 4/3/95

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
01/04/96 10:12

~~WHC-SD-WM-DP-103, REV. 1~~ LAD 4-1-96



# LABCORE Data Entry Template for Worklist# 4695

**Analyst:** GAM **Instrument:** FUS01 SN16555 **Book #** _____

**Method:** LA-549-141 Rev/Mod E-0

**Worklist Comment:** BY-106 C121 Seg 1,2,3U,3L Fusion Digestion rkf

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 BLNK-PREP | | | FUS-ZR01 | SOLID | 1 | .250 | N/A | g/L |
| 95000229 | BY-106 | 2 SAMPLE | S95T004179 | 0 Z | FUS-ZR01 | SOLID | N/A | 1.9692 | | g/L |
| | | .4923g → .250l | | | | | | | | |
| 95000229 | BY-106 | 3 SAMPLE | S95T004179 | 0 Z | DOSE-02 | SOLID | N/A | 2.8 | | mrad/hour |
| 95000229 | BY-106 | 4 DUP | S95T004179 | 0 Z | FUS-ZR01 | SOLID | 1.9692 | 1.9476 | N/A | g/L |
| | | .4869g → .250l | | | | | | | | |
| 95000229 | BY-106 | 5 DUP | S95T004179 | 0 Z | DOSE-02 | SOLID | 2.8 | 2.5 | N/A | mrad/hour |
| 95000229 | BY-106 | 6 SAMPLE | S95T004180 | 0 Z | FUS-ZR01 | SOLID | N/A | 2.2188 | | g/L |
| | | .5547g → .250l | | | | | | | | |
| 95000229 | BY-106 | 7 SAMPLE | S95T004180 | 0 Z | DOSE-02 | SOLID | N/A | 3.7 | | mrad/hour |
| 95000229 | BY-106 | 8 DUP | S95T004180 | 0 Z | FUS-ZR01 | SOLID | 2.2188 | 2.0208 | N/A | g/L |
| | | .5052g → .250l | | | | | | | | |
| 95000229 | BY-106 | 9 DUP | S95T004180 | 0 Z | DOSE-02 | SOLID | 3.7 | 3.0 | N/A | mrad/hour |
| 95000229 | BY-106 | 10 SAMPLE | S95T004181 | 0 Z | FUS-ZR01 | SOLID | N/A | 2.0852 | | g/L |
| | | .5213g → .250l | | | | | | | | |
| 95000229 | BY-106 | 11 SAMPLE | S95T004181 | 0 Z | DOSE-02 | SOLID | N/A | 3.5 | | mrad/hour |
| 95000229 | BY-106 | 12 DUP | S95T004181 | 0 Z | FUS-ZR01 | SOLID | 2.0852 | 2.0980 | N/A | g/L |
| | | .5245g → .250l | | | | | | | | |
| 95000229 | BY-106 | 13 DUP | S95T004181 | 0 Z | DOSE-02 | SOLID | 3.5 | 3 | N/A | mrad/hour |
| 95000229 | BY-106 | 14 SAMPLE | S95T004182 | 0 Z | FUS-ZR01 | SOLID | N/A | 1.9180 | | g/L |
| | | .4795g → .250l | | | | | | | | |
| 95000229 | BY-106 | 15 SAMPLE | S95T004182 | 0 Z | DOSE-02 | SOLID | N/A | 1.6 | | mrad/hour |
| 95000229 | BY-106 | 16 DUP | S95T004182 | 0 Z | FUS-ZR01 | SOLID | 1.9180 | 1.9380 | N/A | g/L |
| | | .4845g → .250l | | | | | | | | |
| 95000229 | BY-106 | 17 DUP | S95T004182 | 0 Z | DOSE-02 | SOLID | 1.6 | 3.5 | N/A | mrad/hour |

*Data Entry Comments:* HPT was Darrell Haines

*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
01/04/96 10:12

~~WHC-SD-WM-DP-103, REV. 1~~ LAD 4-1-96



# LABCORE Data Entry Template for Worklist# 4695

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

## Final page for worklist # 4695

JRMurphy
Analyst Signature Date

RL Stich 1-29-96
Analyst Signature Date

4167 → 4179 S1
4168 → 4180 S2
4169 → 4181 S3U
4170 → 4182 S3L

Reviewed by RK Fuller 1/30/96

Data Entry Comments:

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

# LABCORE Data Entry Template for Worklist# 4703

**Analyst:** JAM **Instrument:** FUS01 SN16555 **Book #** _____

**Method:** LA-549-141 Rev/Mod E-0

**Worklist Comment:** BY-106 C121 Seg 4U,4L,5,6 Fusion Digestion rkf

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK-PREP | | | | FUS-ZR01 | SOLID | 1 | .250 | N/A | g/L |
| 95000229 | BY-106 | 2 | SAMPLE | S95T004183 | 0 | Z | FUS-ZR01 | SOLID | N/A | 2.1932 | | g/L |
| | | | .5483g → .250l | | | | | | | | | |
| 95000229 | BY-106 | 3 | SAMPLE | S95T004183 | 0 | Z | DOSE-02 | SOLID | N/A | 3 | | mrad/hour |
| 95000229 | BY-106 | 4 | DUP | S95T004183 | 0 | Z | FUS-ZR01 | SOLID | 2.1932 | 2.0820 | N/A | g/L |
| | | | .5205g → .250l | | | | | | | | | |
| 95000229 | BY-106 | 5 | DUP | S95T004183 | 0 | Z | DOSE-02 | SOLID | 3 | 4.5 | N/A | mrad/hour |
| 95000229 | BY-106 | 6 | SAMPLE | S95T004184 | 0 | Z | FUS-ZR01 | SOLID | N/A | 2.1028 | | g/L |
| | | | .5257g → .250l | | | | | | | | | |
| 95000229 | BY-106 | 7 | SAMPLE | S95T004184 | 0 | Z | DOSE-02 | SOLID | N/A | 3.5 | | mrad/hour |
| 95000229 | BY-106 | 8 | DUP | S95T004184 | 0 | Z | FUS-ZR01 | SOLID | 2.1028 | 2.1808 | N/A | g/L |
| | | | .5452g → .250l | | | | | | | | | |
| 95000229 | BY-106 | 9 | DUP | S95T004184 | 0 | Z | DOSE-02 | SOLID | 3.5 | 4.5 | N/A | mrad/hour |
| 95000229 | BY-106 | 10 | SAMPLE | S95T004185 | 0 | Z | FUS-ZR01 | SOLID | N/A | 2.3232 | | g/L |
| | | | .5808g → .250l | | | | | | | | | |
| 95000229 | BY-106 | 11 | SAMPLE | S95T004185 | 0 | Z | DOSE-02 | SOLID | N/A | 5 | | mrad/hour |
| 95000229 | BY-106 | 12 | DUP | S95T004185 | 0 | Z | FUS-ZR01 | SOLID | 2.3232 | 2.2072 | N/A | g/L |
| | | | .5518g → .250l | | | | | | | | | |
| 95000229 | BY-106 | 13 | DUP | S95T004185 | 0 | Z | DOSE-02 | SOLID | 5 | 4.5 | N/A | mrad/hour |
| 95000229 | BY-106 | 14 | SAMPLE | S95T004186 | 0 | Z | FUS-ZR01 | SOLID | N/A | 1.9956 | | g/L |
| | | | .4989g → .250l | | | | | | | | | |
| 95000229 | BY-106 | 15 | SAMPLE | S95T004186 | 0 | Z | DOSE-02 | SOLID | N/A | 3.5 | | mrad/hour |
| 95000229 | BY-106 | 16 | DUP | S95T004186 | 0 | Z | FUS-ZR01 | SOLID | 1.9956 | 1.9556 | N/A | g/L |
| | | | .4889g → .250l | | | | | | | | | |
| 95000229 | BY-106 | 17 | DUP | S95T004186 | 0 | Z | DOSE-02 | SOLID | 3.5 | 3.7 | N/A | mrad/hour |

*Data Entry Comments:* HPT was Darrell Haines

*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
01/04/96 10:30

~~WHC-SD-WM-DP-103, REV. 1~~ LAD 4-1-96



# LABCORE Data Entry Template for Worklist# 4703

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

## Final page for worklist # 4703

Analyst Signature | Date

Analyst Signature Date 1-29-96

4171 → 4183 4u
4172 → 4184 4L
4173 → 4185 5
4174 → 4186 6

Reviewed by R K Fuller 1/30/96

*Data Entry Comments:*

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

# LABCORE Data Entry Template for Worklist# 4709

LHD 4-1-96

**Analyst:** [illegible] **Instrument:** FUS019N16355 **Book #** _____

**Method:** LA-549-141 Rev/Mod E-0

**Worklist Comment:** BY-106 C121 Seg 7,8U,8L,9 Fusion Digestion rkf

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 BLNK-PREP | | | FUS-ZR01 | SOLID | 1 | .250 | N/A | g/L |
| 95000229 | BY-106 | 2 SAMPLE | S95T004187 | 0 Z | FUS-ZR01 | SOLID | N/A | 2.1196 | | g/L |
| | | .5299g → .250l | | | | | | | | |
| 95000229 | BY-106 | 3 SAMPLE | S95T004187 | 0 Z | DOSE-02 | SOLID | N/A | 2.5 | | mrad/hour |
| 95000229 | BY-106 | 4 DUP | S95T004187 | 0 Z | FUS-ZR01 | SOLID | 2.1196 | 2.1160 | N/A | g/L |
| | | .5290g → .250l | | | | | | | | |
| 95000229 | BY-106 | 5 DUP | S95T004187 | 0 Z | DOSE-02 | SOLID | 2.5 | 4.5 | N/A | mrad/hour |
| 95000229 | BY-106 | 6 SAMPLE | S95T004188 | 0 Z | FUS-ZR01 | SOLID | N/A | 2.3536 | | g/L |
| | | .5884g → .250l | | | | | | | | |
| 95000229 | BY-106 | 7 SAMPLE | S95T004188 | 0 Z | DOSE-02 | SOLID | N/A | 6 | | mrad/hour |
| 95000229 | BY-106 | 8 DUP | S95T004188 | 0 Z | FUS-ZR01 | SOLID | 2.3536 | 2.1628 | N/A | g/L |
| | | .5407g → .250l | | | | | | | | |
| 95000229 | BY-106 | 9 DUP | S95T004188 | 0 Z | DOSE-02 | SOLID | 6 | 6 | N/A | mrad/hour |
| 95000229 | BY-106 | 10 SAMPLE | S95T004189 | 0 Z | FUS-ZR01 | SOLID | N/A | 1.9528 | | g/L |
| | | .4882g → .250l | | | | | | | | |
| 95000229 | BY-106 | 11 SAMPLE | S95T004189 | 0 Z | DOSE-02 | SOLID | N/A | 5.5 | | mrad/hour |
| 95000229 | BY-106 | 12 DUP | S95T004189 | 0 Z | FUS-ZR01 | SOLID | 1.9528 | 1.8188 | N/A | g/L |
| | | .4547g → .250l | | | | | | | | |
| 95000229 | BY-106 | 13 DUP | S95T004189 | 0 Z | DOSE-02 | SOLID | 5.5 | 5 | N/A | mrad/hour |
| 95000229 | BY-106 | 14 SAMPLE | S95T004190 | 0 Z | FUS-ZR01 | SOLID | N/A | 1.8144 | | g/L |
| | | .4536g → .250l | | | | | | | | |
| 95000229 | BY-106 | 15 SAMPLE | S95T004190 | 0 Z | DOSE-02 | SOLID | N/A | 4 | | mrad/hour |
| 95000229 | BY-106 | 16 DUP | S95T004190 | 0 Z | FUS-ZR01 | SOLID | 1.8144 | 1.9196 | N/A | g/L |
| | | .4799g → .250l | | | | | | | | |
| 95000229 | BY-106 | 17 DUP | S95T004190 | 0 Z | DOSE-02 | SOLID | 4 | 4 | N/A | mrad/hour |

*Data Entry Comments:* HPT was Darrell Haines

*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# 4709

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

## Final page for worklist # 4709

Analyst Signature Date

Analyst Signature Date 1-29-96

4175 → 4187 7
4176 → 4188 8u
4177 → 4189 8L
4178 → 4190 9

Reviewed by RK Fuller 1/30/96

*Data Entry Comments:*

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

# LABCORE Data Entry Template for Worklist# 4970

**Analyst:** JMM **Instrument:** FUS01 32116355 **Book #** _____

**Method:** LA-549-141 Rev/Mod E-0

**Worklist Comment:** BY-106 Core 121 Seg 10U,10A-U,10B-L Fusion Digest rkf

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 BLNK-PREP | | | FUS-ZR01 | SOLID | 1 | .250 | N/A | g/L |
| 95000229 | BY-106 | 2 SAMPLE | S96T000106 | 0 Z | FUS-ZR01 | SOLID | N/A | 1.9128 | | g/L |
| | | .4782g → .250l | | | | | | | | |
| 95000229 | BY-106 | 3 SAMPLE | S96T000106 | 0 Z | DOSE-02 | SOLID | N/A | 2.4 | | mrad/hour |
| 95000229 | BY-106 | 4 DUP | S96T000106 | 0 Z | FUS-ZR01 | SOLID | 1.9128 | 1.7552 | N/A | g/L |
| | | .4388g → .250l | | | | | | | | |
| 95000229 | BY-106 | 5 DUP | S96T000106 | 0 Z | DOSE-02 | SOLID | 2.4 | 2.3 | N/A | mrad/hour |
| 95000229 | BY-106 | 6 SAMPLE | S96T000107 | 0 Z | FUS-ZR01 | SOLID | N/A | 1.8760 | | g/L |
| | | .4690g → .250l | | | | | | | | |
| 95000229 | BY-106 | 7 SAMPLE | S96T000107 | 0 Z | DOSE-02 | SOLID | N/A | 4.7 | | mrad/hour |
| 95000229 | BY-106 | 8 DUP | S96T000107 | 0 Z | FUS-ZR01 | SOLID | 1.8760 | 1.9220 | N/A | g/L |
| | | .4805g → .250l | | | | | | | | |
| 95000229 | BY-106 | 9 DUP | S96T000107 | 0 Z | DOSE-02 | SOLID | 4.7 | 4 | N/A | mrad/hour |
| 95000229 | BY-106 | 10 SAMPLE | S96T000250 | 0 Z | FUS-ZR01 | SOLID | N/A | 2.2568 | | g/L |
| | | .5642g → .250l | | | | | | | | |
| 95000229 | BY-106 | 11 SAMPLE | S96T000250 | 0 Z | DOSE-02 | SOLID | N/A | 5 | | mrad/hour |
| 95000229 | BY-106 | 12 DUP | S96T000250 | 0 Z | FUS-ZR01 | SOLID | 2.2568 | 2.3764 | N/A | g/L |
| | | .5941g → .250l | | | | | | | | |
| 95000229 | BY-106 | 13 DUP | S96T000250 | 0 Z | DOSE-02 | SOLID | 5 | 5 | N/A | mrad/hour |
| 95000229 | BY-106 | 14 SAMPLE | S96T000251 | 0 Z | FUS-ZR01 | SOLID | N/A | 1.7580 | | g/L |
| | | .4395g → .250l | | | | | | | | |
| 95000229 | BY-106 | 15 SAMPLE | S96T000251 | 0 Z | DOSE-02 | SOLID | N/A | 3.5 | | mrad/hour |
| 95000229 | BY-106 | 16 DUP | S96T000251 | 0 Z | FUS-ZR01 | SOLID | 1.7580 | 1.7112 | N/A | g/L |
| | | .4278g → .250l | | | | | | | | |
| 95000229 | BY-106 | 17 DUP | S96T000251 | 0 Z | DOSE-02 | SOLID | 3.5 | 2.2 | N/A | mrad/hour |

*Data Entry Comments:* HPT was Darrell Haines

*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.*

LAD 4-1-96

# LABCORE Data Entry Template for Worklist# 4970

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

## Final page for worklist # 4970

Analyst Signature | Date

Analyst Signature | Date 1-29-96

S96T000 104 → 106 10 u
105 → 107 10 A u
248 → 250 10 B u
249 → 251 10 B L

Reviewed by QK Fuller 1/30/96

*Data Entry Comments:*

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

# LABCORE Data Entry Template for Worklist# 5512

**Analyst:** [illegible] **Instrument:** FUS01 SN6355 **Book #** _____

**Method:** LA-549-141 Rev/Mod E-0

**Worklist Comment:** BY-106 C121 S1-10B Comp & BY-104 C116 Comp Zr Fusion rkf

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK-PREP | | | | FUS-ZR01 | SOLID | 1 | .250 | N/A | g/L |
| 95000229 | BY-106 | 2 | SAMPLE | S96T000379 | 0 | Z | FUS-ZR01 | SOLID | N/A | 2.2848 | | g/L |
| | | | | .5712g → .250l | | | | | | | | |
| 95000229 | BY-106 | 3 | SAMPLE | S96T000379 | 0 | Z | DOSE-02 | SOLID | N/A | 4 | | mrad/hour |
| 95000229 | BY-106 | 4 | DUP | S96T000379 | 0 | Z | FUS-ZR01 | SOLID | 2.2848 | 2.1244 | N/A | g/L |
| | | | | .5311g → .250l | | | | | | | | |
| 95000229 | BY-106 | 5 | DUP | S96T000379 | 0 | Z | DOSE-02 | SOLID | 4 | 3.6 | N/A | mrad/hour |
| 95000180 | BY104 ROTARY | 6 | SAMPLE | S96T000374 | 0 | F | FUS-ZR01 | SOLID | N/A | 1.8148 | | g/L |
| | | | | .4537g → .250l | | | | | | | | |
| 95000180 | BY104 ROTARY | 7 | SAMPLE | S96T000374 | 0 | F | DOSE-02 | SOLID | N/A | 9 | | mrad/hour |
| 95000180 | BY104 ROTARY | 8 | DUP | S96T000374 | 0 | F | FUS-ZR01 | SOLID | 1.8148 | 1.9448 | N/A | g/L |
| | | | | .4862g → .250l | | | | | | | | |
| 95000180 | BY104 ROTARY | 9 | DUP | S96T000374 | 0 | F | DOSE-02 | SOLID | 9 | 10 | N/A | mrad/hour |

## Final page for worklist # 5512

[illegible] Murphy 2-14-96
**Analyst Signature** **Date**

[illegible] 2-15-96
**Analyst Signature** **Date**

S96T000378 → 79
372 → 74

Reviewed by RK Fellis 2/15/96

*Data Entry Comments:* All samples & QC - 40 ml $HNO_3$, <1% solids
HPT was Judy Morales

*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.*

**RERUN**

*worklistrpt Version 2.1 05/15/95*
*03/26/96 09:09*



# LABCORE Data Entry Template for Worklist# 6870

**Analyst:** CJM **Instrument:** FUS01 SN16555 **Book #** _____

**Method:** LA-549-141 Rev/Mod E-0

**Worklist Comment:** TK#BY-106,CORE 121,SEG 7,2, FUS-ZR01 RTS!

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 BLNK-PREP | | | FUS-ZR01 | SOLID | 1 | .250 | N/A | g/L |
| 95000229 | BY-106 | 2 SAMPLE | S96T001378 | 0 Z | FUS-ZR01 | SOLID | N/A | 1.9264 | | g/L |
| | | 0.4816g → .250l | | | | | | | | |
| 95000229 | BY-106 | 3 SAMPLE | S96T001378 | 0 Z | DOSE-02 | SOLID | N/A | 5 | | mrad/hour |
| 95000229 | BY-106 | 4 DUP | S96T001378 | 0 Z | FUS-ZR01 | SOLID | 1.9264 | 2.1064 | N/A | g/L |
| | | 0.5266g → .250l | | | | | | | | |
| 95000229 | BY-106 | 5 DUP | S96T001378 | 0 Z | DOSE-02 | SOLID | 5 | 7.5 | N/A | mrad/hour |
| 95000229 | BY-106 | 6 SAMPLE | S96T001415 | 0 Z | FUS-ZR01 | SOLID | N/A | 1.7744 | | g/L |
| | | 0.4436g → .250l | | | | | | | | |
| 95000229 | BY-106 | 7 SAMPLE | S96T001415 | 0 Z | DOSE-02 | SOLID | N/A | 5 | | mrad/hour |
| 95000229 | BY-106 | 8 DUP | S96T001415 | 0 Z | FUS-ZR01 | SOLID | 1.7744 | 1.7996 | N/A | g/L |
| | | 0.4499g → .250l | | | | | | | | |
| 95000229 | BY-106 | 9 DUP | S96T001415 | 0 Z | DOSE-02 | SOLID | 5 | 7.5 | N/A | mrad/hour |

## Final page for worklist # 6870

CJMurphy 3-28-96
**Analyst Signature** **Date**

Keith Fulle 4/2/96
**Analyst Signature** **Date**

S95T004175 → S96T001378
S95T004168 → S96T001415 -

Reviewed by RK Fulle 4/2/96

*Data Entry Comments:*
Sample # 4168 is very dry. HPT-Judy Morales
All samples & QC - 40ml $HNO_3$, <1% solids

*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# 298

HPT: Jim Evens

Analyst: [illegible] Instrument: H2O01 _____ Method: LA-504-101 /C O 12 mrad

Worklist Comment: BY-106 H2O-RAD/343->351, 344->352, 345->353, 346->354

| Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|
| BLNK-PREP | | | | H2ORAD01 | SOLID | [illegible] | [illegible] 9.7865 | N/A | g/L |
| SAMPLE | S94T000351 | 0 | R | H2ORAD01 | SOLID | N/A 9.7865 | ~~[illegible]~~ 9.8062 | BH II 1-19-95 | g/L |
| DUP | S94T000351 | 0 | R | H2ORAD01 | SOLID | ~~[illegible]~~ | ~~[illegible]~~ 9.5272 | N/A | g/L |
| SAMPLE | S94T000352 | 0 | R | H2ORAD01 | SOLID | N/A 9.5272 | ~~[illegible]~~ 9.7734 | BH II 1-19-95 | g/L |
| DUP | S94T000352 | 0 | R | H2ORAD01 | SOLID | ~~[illegible]~~ | ~~[illegible]~~ 9.6723 | N/A | g/L |
| SAMPLE | S94T000353 | 0 | R | H2ORAD01 | SOLID | N/A 9.6723 | ~~[illegible]~~ 9.7463 | BH II 1-19-95 | g/L |
| 7 DUP | S94T000353 | 0 | R | H2ORAD01 | SOLID | ~~[illegible]~~ | ~~[illegible]~~ 9.6161 | N/A | g/L |
| 8 SAMPLE | S94T000354 | 0 | R | H2ORAD01 | SOLID | N/A 9.6161 | ~~[illegible]~~ 9.5496 | BH II 1-19-95 | g/L |
| 9 DUP | S94T000354 | 0 | R | H2ORAD01 | SOLID | ~~[illegible]~~ | ~~[illegible]~~ | N/A | g/L |

## Final page for worklist # 298

Analyst Signature

Date 1-11-95

RadChem

$$D.F. = \frac{106.8\,mL}{100\,mL} = 1.068$$

*Data Entry Comments:*

Bertrand Griffin II 1-19-95

*Units shown for QC (SPK) may not reflect the actual units.*

worklistrpt Version 2.1 05/15/95
01/02/96 15:39

~~WHC-SD-WM-DP-103, REV. 1~~ LAD 4-1-96



# LABCORE Data Entry Template for Worklist# 4609

**Analyst:** [illegible] **Instrument:** H2O01 SD16355 **Book #** _____

**Method:** LA-504-101 Rev/Mod E-0

**Worklist Comment:** BY-106 C121 Seg 1,2 Water Digestion rkf

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 BLNK-PREP | | | H2ODIG01 | SOLID | 1 | .100 | N/A | g/L |
| 95000229 | BY-106 | 2 SAMPLE | S95T004202 | 0 W | H2ODIG01 | SOLID | N/A | 2.3480 | | g/L |
| | | .5398g → .100l | | | | | | | | |
| 95000229 | BY-106 | 3 SAMPLE | S95T004202 | 0 W | DOSE-02 | SOLID | N/A | 2 | | mrad/hour |
| 95000229 | BY-106 | 4 DUP | S95T004202 | 0 W | H2ODIG01 | SOLID | 2.3980 | 4.8160 | N/A | g/L |
| | | .4816g → .100l | | | | | | | | |
| 95000229 | BY-106 | 5 DUP | S95T004202 | 0 W | DOSE-02 | SOLID | 2 | 2 | N/A | mrad/hour |
| 95000229 | BY-106 | 6 SAMPLE | S95T004203 | 0 W | H2ODIG01 | SOLID | N/A | 2.5360 | | g/L |
| | | .5536g → .100l | | | | | | | | |
| 95000229 | BY-106 | 7 SAMPLE | S95T004203 | 0 W | DOSE-02 | SOLID | N/A | 2.3 | | mrad/hour |
| 95000229 | BY-106 | 8 DUP | S95T004203 | 0 W | H2ODIG01 | SOLID | 2.5360 | 4.8840 | N/A | g/L |
| | | .4884g → .100l | | | | | | | | |
| 95000229 | BY-106 | 9 DUP | S95T004203 | 0 W | DOSE-02 | SOLID | 2.3 | 2.6 | N/A | mrad/hour |

## Final page for worklist # 4609

[illegible] 1-28-96
**Analyst Signature** **Date**

[illegible] 1-29-96
**Analyst Signature** **Date**

4167 ⟶ 4202 Seg #1
4168 ⟶ 4203 Seg #2

Reviewed by RK Fuller 1/30/96

*Data Entry Comments:* HPT was Darrel Haines

*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*
*01/02/96 15:45*

~~WHC-SD-WM-DP-103, REV. 1~~ LAD 4-1-96

*Page: 1*

# LABCORE Data Entry Template for Worklist# 4610

**Analyst:** GAM **Instrument:** H2O01 SN16355 **Book #** _____

**Method:** LA-504-101 Rev/Mod E-0

**Worklist Comment:** BY-106 C121 Seg 3U,3L Water Digestion rkf

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK-PREP | | | | H2ODIG01 | SOLID | 1 | .100 | N/A | g/L |
| 95000229 | BY-106 | 2 | SAMPLE | S95T004204 | 0 | W | H2ODIG01 | SOLID | N/A | 4.6790 | | g/L |
| | | | .4679g → .100l | | | | | | | | | |
| 95000229 | BY-106 | 3 | SAMPLE | S95T004204 | 0 | W | DOSE-02 | SOLID | N/A | 2 | | mrad/hour |
| 95000229 | BY-106 | 4 | DUP | S95T004204 | 0 | W | H2ODIG01 | SOLID | 4.6790 | 4.4590 | N/A | g/L |
| | | | .4459g → .100l | | | | | | | | | |
| 95000229 | BY-106 | 5 | DUP | S95T004204 | 0 | W | DOSE-02 | SOLID | 2 | 2 | N/A | mrad/hour |
| 95000229 | BY-106 | 6 | SAMPLE | S95T004205 | 0 | W | H2ODIG01 | SOLID | N/A | 5.4420 | | g/L |
| | | | .5442g → .100l | | | | | | | | | |
| 95000229 | BY-106 | 7 | SAMPLE | S95T004205 | 0 | W | DOSE-02 | SOLID | N/A | 2.6 | | mrad/hour |
| 95000229 | BY-106 | 8 | DUP | S95T004205 | 0 | W | H2ODIG01 | SOLID | 5.4420 | 5.7060 | N/A | g/L |
| | | | .5706g → .100l | | | | | | | | | |
| 95000229 | BY-106 | 9 | DUP | S95T004205 | 0 | W | DOSE-02 | SOLID | 2.6 | 3.2 | N/A | mrad/hour |

## Final page for worklist # 4610

GAMurphy 1-28-96
**Analyst Signature** **Date**

[illegible] 1-29-96
**Analyst Signature** **Date**

4169 ——→ 4204 S 3U
4170 ——→ 4205 S 3L

Reviewed by RK Fulle 1/30/96

*Data Entry Comments:* APT was Darrell Haines

*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
01/02/96 15:54

~~WHC-SD-WM-DP-103, REV. 1~~ LAD 4-1-96



# LABCORE Data Entry Template for Worklist# 4612

**Analyst:** [illegible] **Instrument:** H2O01 SN16 355 **Book #** _____

**Method:** LA-504-101 Rev/Mod E-0

**Worklist Comment:** BY-106 C121 Seg 4U,4L Water Digestion rkf

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 BLNK-PREP | | | H2ODIG01 | SOLID | 1 | .100 | N/A | g/L |
| 95000229 | BY-106 | 2 SAMPLE | S95T004206 | 0 W | H2ODIG01 | SOLID | N/A | 5.5050 | | g/L |
| | | .55059 → .100l | | | | | | | | |
| 95000229 | BY-106 | 3 SAMPLE | S95T004206 | 0 W | DOSE-02 | SOLID | N/A | 2 | | mrad/hour |
| 95000229 | BY-106 | 4 DUP | S95T004206 | 0 W | H2ODIG01 | SOLID | 5.5050 | 5.0490 | N/A | g/L |
| | | .5049g → .100l | | | | | | | | |
| 95000229 | BY-106 | 5 DUP | S95T004206 | 0 W | DOSE-02 | SOLID | 2 | 1.7 | N/A | mrad/hour |
| 95000229 | BY-106 | 6 SAMPLE | S95T004207 | 0 W | H2ODIG01 | SOLID | N/A | 5.1960 | | g/L |
| | | .51969 → .100l | | | | | | | | |
| 95000229 | BY-106 | 7 SAMPLE | S95T004207 | 0 W | DOSE-02 | SOLID | N/A | 2 | | mrad/hour |
| 95000229 | BY-106 | 8 DUP | S95T004207 | 0 W | H2ODIG01 | SOLID | 5.1960 | 5.0000 | N/A | g/L |
| | | .5000g → .100l | | | | | | | | |
| 95000229 | BY-106 | 9 DUP | S95T004207 | 0 W | DOSE-02 | SOLID | 2 | 2 | N/A | mrad/hour |

## Final page for worklist # 4612

[illegible] 1-28-96
**Analyst Signature** **Date**

[illegible] 1-29-96
**Analyst Signature** **Date**

4171 ⟶ 4206 54U
4172 ⟶ 4207 54L

Reviewed by [illegible] 1/30/96

*Data Entry Comments:* HPT was Darrell Haines

*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
01/02/96 16:02

~~WHC-SD-WM-DP-103, REV. 1~~ LAD 4-1-96



# LABCORE Data Entry Template for Worklist# 4614

**Analyst:** [illegible] **Instrument:** H2O01 SN16355 **Book #** _____

**Method:** LA-504-101 Rev/Mod E-0

**Worklist Comment:** BY-106 C121 Seg 5,6 Water Digestion rkf

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 BLNK-PREP | | | H2ODIG01 | SOLID | 1 | .100 | N/A | g/L |
| 95000229 | BY-106 | 2 SAMPLE | S95T004208 | 0 W | H2ODIG01 | SOLID | N/A | 5.0630 | | g/L |
| | | .50639 → .100l | | | | | | | | |
| 95000229 | BY-106 | 3 SAMPLE | S95T004208 | 0 W | DOSE-02 | SOLID | N/A | 3.1 | | mrad/hour |
| 95000229 | BY-106 | 4 DUP | S95T004208 | 0 W | H2ODIG01 | SOLID | 5.0630 | 5.0810 | N/A | g/L |
| | | .50819 → .100l | | | | | | | | |
| 95000229 | BY-106 | 5 DUP | S95T004208 | 0 W | DOSE-02 | SOLID | 3.1 | 2.5 | N/A | mrad/hour |
| 95000229 | BY-106 | 6 SAMPLE | S95T004209 | 0 W | H2ODIG01 | SOLID | N/A | 5.5960 | | g/L |
| | | .55969 → .100l | | | | | | | | |
| 95000229 | BY-106 | 7 SAMPLE | S95T004209 | 0 W | DOSE-02 | SOLID | N/A | 2.3 | | mrad/hour |
| 95000229 | BY-106 | 8 DUP | S95T004209 | 0 W | H2ODIG01 | SOLID | 5.5960 | 5.3570 | N/A | g/L |
| | | .53579 → .100l | | | | | | | | |
| 95000229 | BY-106 | 9 DUP | S95T004209 | 0 W | DOSE-02 | SOLID | 2.3 | 1.6 | N/A | mrad/hour |

## Final page for worklist # 4614

[illegible] 1-28-96
**Analyst Signature** **Date**

[illegible] 1-29-96
**Analyst Signature** **Date**

4173 ⟶ 4208 Seg 5
4174 ⟶ 4209 Seg 6

Reviewed by RKFulle 1/31/96

*Data Entry Comments:* HPT was Darrell Haines

*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
01/02/96 16:12

~~WHC-SD-WM-DP-103, REV. 1~~ LAD 4-1-96



# LABCORE Data Entry Template for Worklist# 4615

**Analyst:** JDM **Instrument:** H2O01 SN16355 **Book #** _____

**Method:** LA-504-101 Rev/Mod E-0

**Worklist Comment:** BY-106 C121 Seg 7,8U Water Digestion rkf

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 BLNK-PREP | | | H2ODIG01 | SOLID | 1 | .100 | N/A | g/L |
| 95000229 | BY-106 | 2 SAMPLE | S95T004210 | 0 W | H2ODIG01 | SOLID | N/A | 5.510 | | g/L |
| | | .5511g → .100l | | | | | | | | |
| 95000229 | BY-106 | 3 SAMPLE | S95T004210 | 0 W | DOSE-02 | SOLID | N/A | 2.5 | | mrad/hour |
| 95000229 | BY-106 | 4 DUP | S95T004210 | 0 W | H2ODIG01 | SOLID | 5.510 | 5.0210 | N/A | g/L |
| | | .5021g → .100l | | | | | | | | |
| 95000229 | BY-106 | 5 DUP | S95T004210 | 0 W | DOSE-02 | SOLID | 2.5 | 2.5 | N/A | mrad/hour |
| 95000229 | BY-106 | 6 SAMPLE | S95T004211 | 0 W | H2ODIG01 | SOLID | N/A | 5.3770 | | g/L |
| | | .5377g → .100l | | | | | | | | |
| 95000229 | BY-106 | 7 SAMPLE | S95T004211 | 0 W | DOSE-02 | SOLID | N/A | 5 | | mrad/hour |
| 95000229 | BY-106 | 8 DUP | S95T004211 | 0 W | H2ODIG01 | SOLID | 5.3770 | 5.9940 | N/A | g/L |
| | | .5994g → .100l | | | | | | | | |
| 95000229 | BY-106 | 9 DUP | S95T004211 | 0 W | DOSE-02 | SOLID | 5 | 4.5 | N/A | mrad/hour |

## Final page for worklist # 4615

JDMurphy 1-28-96
**Analyst Signature** **Date**

RKFuller 1-24-96
**Analyst Signature** **Date**

4175 → 4210 S 7
4176 → 4211 S 8U

RKFuller 1/30/96

*Data Entry Comments:* HPT was Darell Haines

*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# 4625

**Analyst:** [illegible] **Instrument:** H2O01 SN16355 **Book #** _____

**Method:** LA-504-101 Rev/Mod E-0

**Worklist Comment:** BY-106 C121 Seg 8L,9 Water Digestion rkf

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK-PREP | | | | H2ODIG01 | SOLID | 1 | .100 | N/A | g/L |
| 95000229 | BY-106 | 2 | SAMPLE | S95T004212 | 0 | W | H2ODIG01 | SOLID | N/A | 4.4040 | | g/L |
| | | | | .4404g → .100l | | | | | | | | |
| 95000229 | BY-106 | 3 | SAMPLE | S95T004212 | 0 | W | DOSE-02 | SOLID | N/A | 4.5 | | mrad/hour |
| 95000229 | BY-106 | 4 | DUP | S95T004212 | 0 | W | H2ODIG01 | SOLID | 4.4040 | 4.8940 | N/A | g/L |
| | | | | .4894g → .100l | | | | | | | | |
| 95000229 | BY-106 | 5 | DUP | S95T004212 | 0 | W | DOSE-02 | SOLID | 4.5 | 4.5 | N/A | mrad/hour |
| 95000229 | BY-106 | 6 | SAMPLE | S95T004213 | 0 | W | H2ODIG01 | SOLID | N/A | 5.8420 | | g/L |
| | | | | .5842g → .100l | | | | | | | | |
| 95000229 | BY-106 | 7 | SAMPLE | S95T004213 | 0 | W | DOSE-02 | SOLID | N/A | 4.2 | | mrad/hour |
| 95000229 | BY-106 | 8 | DUP | S95T004213 | 0 | W | H2ODIG01 | SOLID | 5.8420 | 5.7060 | N/A | g/L |
| | | | | .5706g → .100l | | | | | | | | |
| 95000229 | BY-106 | 9 | DUP | S95T004213 | 0 | W | DOSE-02 | SOLID | 4.2 | 4 | N/A | mrad/hour |

## Final page for worklist # 4625

Teresa Murphy 1-28-96
**Analyst Signature** **Date**

[illegible] 1-24-96
**Analyst Signature** **Date**

4177 ⟶ 4212 8L
4178 ⟶ 4213 9

Reviewed by RK Fuller 1/30/96

*Data Entry Comments:* HPC was Darell Hanes

*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
01/17/96 16:33

~~WHC-SD-WM-DP-103, REV. 1~~ 4-1-96 LAD



# LABCORE Data Entry Template for Worklist# 4974

**Analyst:** [illegible] **Instrument:** H2O01 22116355 **Book #** _____

**Method:** LA-504-101 Rev/Mod E-0

**Worklist Comment:** BY-106 C121 Seg 10U,10BL,10BU Water Digestion rkf

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK-PREP | | | | H2ODIG01 | SOLID | 1 | .100 | N/A | g/L |
| 95000229 | BY-106 | 2 | SAMPLE | S96T000109 | 0 | W | H2ODIG01 | SOLID | N/A | 5.5520 | | g/L |
| | | | .5552g → .100l | | | | | | | | | |
| 95000229 | BY-106 | 3 | SAMPLE | S96T000109 | 0 | W | DOSE-02 | SOLID | N/A | 1.7 | | mrad/hour |
| 95000229 | BY-106 | 4 | DUP | S96T000109 | 0 | W | H2ODIG01 | SOLID | 5.5520 | 5.2990 | N/A | g/L |
| | | | .5299g → .100l | | | | | | | | | |
| 95000229 | BY-106 | 5 | DUP | S96T000109 | 0 | W | DOSE-02 | SOLID | 1.7 | 2 | N/A | mrad/hour |
| 95000229 | BY-106 | 6 | SAMPLE | S96T000254 | 0 | W | H2ODIG01 | SOLID | N/A | 5.0810 | | g/L |
| | | | .5081g → .100l | | | | | | | | | |
| 95000229 | BY-106 | 7 | SAMPLE | S96T000254 | 0 | W | DOSE-02 | SOLID | N/A | 4.2 | | mrad/hour |
| 95000229 | BY-106 | 8 | DUP | S96T000254 | 0 | W | H2ODIG01 | SOLID | 5.0810 | 4.5690 | N/A | g/L |
| | | | .4569g → .100l | | | | | | | | | |
| 95000229 | BY-106 | 9 | DUP | S96T000254 | 0 | W | DOSE-02 | SOLID | 4.2 | 3.5 | N/A | mrad/hour |
| 95000229 | BY-106 | 10 | SAMPLE | S96T000255 | 0 | W | H2ODIG01 | SOLID | N/A | 5.4000 | | g/L |
| | | | .5400g → .100l | | | | | | | | | |
| 95000229 | BY-106 | 11 | SAMPLE | S96T000255 | 0 | W | DOSE-02 | SOLID | N/A | 3.5 | | mrad/hour |
| 95000229 | BY-106 | 12 | DUP | S96T000255 | 0 | W | H2ODIG01 | SOLID | 5.4000 | 5.8880 | N/A | g/L |
| | | | .5888g → .100l | | | | | | | | | |
| 95000229 | BY-106 | 13 | DUP | S96T000255 | 0 | W | DOSE-02 | SOLID | 3.5 | 3.5 | N/A | mrad/hour |

## Final page for worklist # 4974

[illegible] 1-28-96
**Analyst Signature** **Date**

[illegible] 1-29-96
**Analyst Signature** **Date**

S96T000104 → 109 10 U
248 → 254 10 B U
249 → 255 10 B L

Reviewed by RKTodd 1/31/96

*Data Entry Comments:* HP Twas Darrell Haines

*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# 5507

**Analyst:** [illegible] **Instrument:** H2O01 SN16355 **Book #** _____

**Method:** LA-504-101 Rev/Mod E-0

**Worklist Comment:** BY-106 C121 S1-10B Comp & BY-104 C116 Comp Water digest rkf

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK-PREP | | | | H2ODIG01 | SOLID | 1 | .100 | N/A | g/L |
| 95000229 | BY-106 | 2 | SAMPLE | S96T000381 | 0 | W | H2ODIG01 | SOLID | N/A | 5.2640 | | g/L |
| | | | | .5264g → .100l | | | | | | | | |
| 95000229 | BY-106 | 3 | SAMPLE | S96T000381 | 0 | W | DOSE-02 | SOLID | N/A | 4.5 | | mrad/hour |
| 95000229 | BY-106 | 4 | DUP | S96T000381 | 0 | W | H2ODIG01 | SOLID | 5.2640 | 5.1620 | N/A | g/L |
| | | | | .5162g → .100l | | | | | | | | |
| 95000229 | BY-106 | 5 | DUP | S96T000381 | 0 | W | DOSE-02 | SOLID | 4.5 | 4 | N/A | mrad/hour |
| 95000180 | BY104 ROTARY | 6 | SAMPLE | S96T000373 | 0 | W | H2ODIG01 | SOLID | N/A | 5.0650 | | g/L |
| | | | | .5065g → .100l | | | | | | | | |
| 95000180 | BY104 ROTARY | 7 | SAMPLE | S96T000373 | 0 | | DOSE-02 | SOLID | N/A | 8 | | mrad/hour |
| 95000180 | BY104 ROTARY | 8 | DUP | S96T000373 | 0 | W | H2ODIG01 | SOLID | 5.0650 | 5.6420 | N/A | g/L |
| | | | | .5642g → .100l | | | | | | | | |
| 95000180 | BY104 ROTARY | 9 | DUP | S96T000373 | 0 | | DOSE-02 | SOLID | 8 | 8 | N/A | mrad/hour |

## Final page for worklist # 5507

[illegible] 2-14-96
**Analyst Signature** **Date**

[illegible] 2-15-96
**Analyst Signature** **Date**

S96T000378 → 81
372 → 73

Reviewed by RK Fuller 2/15/96

*Data Entry Comments:*

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

# LABCORE Data Entry Template for Worklist# 845

**Analyst:** Cmh **Instrument:** NONE N/A **Book #** N/A

**Method:** LA-504-101 Rev/Mod C - O

**Worklist Comment:** BY-106 FILTER TEST - 304--->228

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| 94000019 | BY-106 | 1 SAMPLE | S95T000228 | 0 | FILTER01 | LIQUID | N/A | complete | | |

## Final page for worklist # 845

Analyst Signature Date 3-28-95

Analyst Signature Date 3-29-95

*Data Entry Comments:*
1000 mrad p/hr HPT was Darrel Hanes

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

worklistrpt Version 2.1 05/15/95
02/09/96 08:31

~~WHC-SD-WM-DP-103, REV. 1~~ LAP 4-1-96



# LABCORE Data Entry Template for Worklist# 5601

**Analyst:** [illegible] **Instrument:** NONE _____ **Book #** _____

**Method:** LA-504-101 Rev/Mod E-0

**Worklist Comment:** BY-106 C121 Seg 10B Drainable Liquid - Filtering rkf

| GROUP | PROJECT | S TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 95000229 | BY-106 | 1 SAMPLE | S96T000258 | 0 | | FILTER02 | LIQUID | N/A | Complete | | |
| 95000229 | BY-106 | 2 SAMPLE | S96T000258 | 0 | | DOSE-02 | LIQUID | N/A | 290 | | mrad/hour |

## Final page for worklist # 5601

[illegible] 2-26-96
**Analyst Signature** **Date**

[illegible] 2-27-96
**Analyst Signature** **Date**
Rick Fuller Dir

Before filtering — After filtering

S96T000273 → S96T000258

Reviewed by R K Fuller
2/27/96

*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.*

worklistrpt Version 2.1 05/15/95
01/04/96 11:30

~~WHC-SD-WM-DP-103, REV. 1~~ LAD 4-1-96



# LABCORE Data Entry Template for Worklist# 4711

**Analyst:** ~~LMM~~ LMH **Instrument:** ACD01 SN 16355 **Book #** WHC1A/G4J WHC1A N10 WHC2/L3M WHC2 N15

**Method:** LA-505-159 Rev/Mod D-0

**Worklist Comment:** BY-106 C121 Seg 2,3U,3L,4U,4L Acid Digestion rkf

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 BLNK-PREP | | | ACIDIG01 | SOLID | 1 | .050 | N/A | g/L |
| | | 2 STD-PREP | | | ACIDIG01 | SOLID | 20 | 20 | N/A | ~~g/L~~ D.F. 1-22-96 LMM |
| 95000229 | BY-106 | 3 SAMPLE | S95T004191 | 0 A | ACIDIG01 | SOLID | N/A | 5.4180 | | g/L |
| | | .2709g → .050l | | | | | | | | |
| 95000229 | BY-106 | 4 SAMPLE | S95T004191 | 0 A | DOSE-02 | SOLID | N/A | 2.8 | | mrad/hour |
| 95000229 | BY-106 | 5 DUP | S95T004191 | 0 A | ACIDIG01 | SOLID | 5.4180 | 5.2200 | N/A | g/L |
| | | .2610g → .050l | | | | | | | | |
| 95000229 | BY-106 | 6 DUP | S95T004191 | 0 A | DOSE-02 | SOLID | 2.8 | 3.3 | N/A | mrad/hour |
| 95000229 | BY-106 | 7 SPK | S95T004191 | 0 A | ACIDIG01 | SOLID | 20 | 20 | N/A | ~~g/L~~ D.F. 1-22-96 LMM 5.2740g/l |
| | | .2637g → .050l | | | | | | | | |
| 95000229 | BY-106 | 8 SPK | S95T004191 | 0 A | DOSE-02 | SOLID | NA | 3 | N/A | mrad/hour |
| 95000229 | BY-106 | 9 SAMPLE | S95T004192 | 0 A | ACIDIG01 | SOLID | N/A | 5.4100 | | g/L |
| | | .2705g → .050l | | | | | | | | |
| 95000229 | BY-106 | 10 SAMPLE | S95T004192 | 0 A | DOSE-02 | SOLID | N/A | 2.8 | | mrad/hour |
| 95000229 | BY-106 | 11 DUP | S95T004192 | 0 A | ACIDIG01 | SOLID | 5.4100 | 5.2660 | N/A | g/L |
| | | .2633g → .050l | | | | | | | | |
| 95000229 | BY-106 | 12 DUP | S95T004192 | 0 A | DOSE-02 | SOLID | 2.8 | 2.4 | N/A | mrad/hour |
| 95000229 | BY-106 | 13 SAMPLE | S95T004193 | 0 A | ACIDIG01 | SOLID | N/A | 4.9200 | | g/L |
| | | .2460g → .050l | | | | | | | | |
| 95000229 | BY-106 | 14 SAMPLE | S95T004193 | 0 A | DOSE-02 | SOLID | N/A | 2.5 | | mrad/hour |
| 95000229 | BY-106 | 15 DUP | S95T004193 | 0 A | ACIDIG01 | SOLID | 4.9200 | 5.3140 | N/A | g/L |
| | | .2657g → .050l | | | | | | | | |
| 95000229 | BY-106 | 16 DUP | S95T004193 | 0 A | DOSE-02 | SOLID | 2.5 | 2.3 | N/A | mrad/hour |
| 95000229 | BY-106 | 17 SAMPLE | S95T004194 | 0 A | ACIDIG01 | SOLID | N/A | 5.6260 | | g/L |
| | | .2813g → .050l | | | | | | | | |
| 95000229 | BY-106 | 18 SAMPLE | S95T004194 | 0 A | DOSE-02 | SOLID | N/A | 2.1 | | mrad/hour |

*Data Entry Comments:* <1% solids

*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
01/04/96 11:30

~~WHC-SD-WM-DP-103, REV. 1~~ LMD 4196



# LABCORE Data Entry Template for Worklist# 4711

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| 95000229 | BY-106 | 19 DUP | S95T004194 | 0 A | ACIDIG01 | SOLID | 5.6260 | 4.8340 | N/A | g/L |
| | | .2417g → .050l | | | | | | | | |
| 95000229 | BY-106 | 20 DUP | S95T004194 | 0 A | DOSE-02 | SOLID | 2.1 | 2.3 | N/A | mrad/hour |
| 95000229 | BY-106 | 21 SAMPLE | S95T004195 | 0 A | ACIDIG01 | SOLID | N/A | 4.9380 | | g/L |
| | | .2469g → .050l | | | | | | | | |
| 95000229 | BY-106 | 22 SAMPLE | S95T004195 | 0 A | DOSE-02 | SOLID | N/A | 2.4 | | mrad/hour |
| 95000229 | BY-106 | 23 DUP | S95T004195 | 0 A | ACIDIG01 | SOLID | 4.9380 | 5.6500 | N/A | g/L |
| | | .2825g → .050l | | | | | | | | |
| 95000229 | BY-106 | 24 DUP | S95T004195 | 0 A | DOSE-02 | SOLID | 2.4 | 2.7 | N/A | mrad/hour |

## Final page for worklist # 4711

GAMurphy 1-28-96
Analyst Signature Date

[illegible] 1-30-96
Analyst Signature Date

No acid digest required on segment #1 RKF 1/4/96

4168 → 4191 2
4169 → 4192 3u
4170 → 4193 3L
4171 → 4194 4u
4172 → 4195 4L

Reviewed by RKFuller 1/30/96

*Data Entry Comments:*

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

worklistrpt Version 2.1 05/15/95
01/04/96 11:44

~~WHC-SD-WM-DP-103, REV. 1~~ LMD 4-1-96



# LABCORE Data Entry Template for Worklist# 4712

**Analyst:** LMH **Instrument:** ACD01 D0016355 **Book #** WHC1A/54J WHC1A N10 WHC2/L3M WHC2N15

**Method:** LA-505-159 Rev/Mod D-0

**Worklist Comment:** BY-106 C121 Seg 5,6,7,8U,8L,9 Acid Digestion rkf

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK-PREP | | | | ACIDIG01 | SOLID | 1 | .050 | N/A | g/L |
| | | 2 | STD-PREP | | | | ACIDIG01 | SOLID | 20 | 20 | N/A | ~~g/L~~ D.F. 1-22-96 |
| 95000229 | BY-106 | 3 | SAMPLE | S95T004196 | 0 | A | ACIDIG01 | SOLID | N/A | 4.7380 | | g/L |
| | | | .2369g → .050l | | | | | | | | | |
| 95000229 | BY-106 | 4 | SAMPLE | S95T004196 | 0 | A | DOSE-02 | SOLID | N/A | 2.5 | | mrad/hour |
| 95000229 | BY-106 | 5 | DUP | S95T004196 | 0 | A | ACIDIG01 | SOLID | 4.7380 | 5.3320 | N/A | g/L |
| | | | .2666g → .050l | | | | | | | | | |
| 95000229 | BY-106 | 6 | DUP | S95T004196 | 0 | A | DOSE-02 | SOLID | 2.5 | 3.3 | N/A | mrad/hour |
| 95000229 | BY-106 | 7 | SPK | S95T004196 | 0 | A | ACIDIG01 | SOLID | 20 | 20 | N/A | ~~g/L~~ D.F. 1-22-96 5.5800g/l |
| | | | .2790g → .050l | | | | | | | | | |
| 95000229 | BY-106 | 8 | SPK | S95T004196 | 0 | A | DOSE-02 | SOLID | N2 | 2.7 | N/A | mrad/hour |
| 95000229 | BY-106 | 9 | SAMPLE | S95T004197 | 0 | A | ACIDIG01 | SOLID | N/A | 4.9900 | | g/L |
| | | | .2495g → .050l | | | | | | | | | |
| 95000229 | BY-106 | 10 | SAMPLE | S95T004197 | 0 | A | DOSE-02 | SOLID | N/A | 2.5 | | mrad/hour |
| 95000229 | BY-106 | 11 | DUP | S95T004197 | 0 | A | ACIDIG01 | SOLID | 4.9900 | 4.8200 | N/A | g/L |
| | | | .2410g → .050l | | | | | | | | | |
| 95000229 | BY-106 | 12 | DUP | S95T004197 | 0 | A | DOSE-02 | SOLID | 2.5 | 3 | N/A | mrad/hour |
| 95000229 | BY-106 | 13 | SAMPLE | S95T004198 | 0 | A | ACIDIG01 | SOLID | N/A | 5.2540 | | g/L |
| | | | .2627g → .050l | | | | | | | | | |
| 95000229 | BY-106 | 14 | SAMPLE | S95T004198 | 0 | A | DOSE-02 | SOLID | N/A | 2.7 | | mrad/hour |
| 95000229 | BY-106 | 15 | DUP | S95T004198 | 0 | A | ACIDIG01 | SOLID | 5.2540 | 5.5000 | N/A | g/L |
| | | | .2750g → .050l | | | | | | | | | |
| 95000229 | BY-106 | 16 | DUP | S95T004198 | 0 | A | DOSE-02 | SOLID | 2.7 | 3 | N/A | mrad/hour |
| 95000229 | BY-106 | 17 | SAMPLE | S95T004199 | 0 | A | ACIDIG01 | SOLID | N/A | 5.1760 | | g/L |
| | | | .2588g → .050l | | | | | | | | | |
| 95000229 | BY-106 | 18 | SAMPLE | S95T004199 | 0 | A | DOSE-02 | SOLID | N/A | 4 | | mrad/hour |

*Data Entry Comments:* <10% Solids

*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# 4712

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| 95000229 | BY-106 | 19 DUP | S95T004199 | 0 A | ACIDIG01 | SOLID | 5.1760 | 5.3680 | N/A | g/L |
| | | .2684g → .050l | | | | | | | | |
| 95000229 | BY-106 | 20 DUP | S95T004199 | 0 A | DOSE-02 | SOLID | 4 | 4 | N/A | mrad/hour |
| 95000229 | BY-106 | 21 SAMPLE | S95T004200 | 0 A | ACIDIG01 | SOLID | N/A | 5.8920 | | g/L |
| | | .2946g → .050l | | | | | | | | |
| 95000229 | BY-106 | 22 SAMPLE | S95T004200 | 0 A | DOSE-02 | SOLID | N/A | 4.8 | | mrad/hour |
| 95000229 | BY-106 | 23 DUP | S95T004200 | 0 A | ACIDIG01 | SOLID | 5.8920 | 6.1320 | N/A | g/L |
| | | .3066g → .050l | | | | | | | | |
| 95000229 | BY-106 | 24 DUP | S95T004200 | 0 A | DOSE-02 | SOLID | 4.8 | 4.5 | N/A | mrad/hour |
| 95000229 | BY-106 | 25 SAMPLE | S95T004201 | 0 A | ACIDIG01 | SOLID | N/A | 5.2640 | | g/L |
| | | .2632g → .050l | | | | | | | | |
| 95000229 | BY-106 | 26 SAMPLE | S95T004201 | 0 A | DOSE-02 | SOLID | N/A | 3.4 | | mrad/hour |
| 95000229 | BY-106 | 27 DUP | S95T004201 | 0 A | ACIDIG01 | SOLID | 5.2640 | 5.4100 | N/A | g/L |
| | | .2705g → .050l | | | | | | | | |
| 95000229 | BY-106 | 28 DUP | S95T004201 | 0 A | DOSE-02 | SOLID | 3.4 | 3 | N/A | mrad/hour |

## Final page for worklist # 4712

Analyst Signature: [signature] Date: 1-28-96

Analyst Signature: [signature] Date: 1-30-96

4173 → 4196 5
4174 → 4197 6
4175 → 4198 7
4176 → 4199 8u
4177 → 4200 8L
4178 → 4201 9

Reviewed by RK Fuller 1/30/96

*Data Entry Comments:*

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

worklistrpt Version 2.1 05/15/95
01/17/96 16:25



# LABCORE Data Entry Template for Worklist# 4971

**Analyst:** ~~ZMH~~ ZMH **Instrument:** ACD01 3316355 **Book #** WHC2/C3MWHC2N15 WHC1A/G4J WHC1A/N10

**Method:** LA-505-159 Rev/Mod D-C

**Worklist Comment:** BY-106 Core 121 Seg 10U,10Au,10Bu,10Bl,8U,8U Acid Digest

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 BLNK-PREP | | | ACIDIG01 | SOLID | 1 | .050 | N/A | g/L |
| | | 2 STD-PREP | | | ACIDIG01 | SOLID | 20 | 20 | N/A | g/L |
| 95000229 | BY-106 | 3 SAMPLE | S96T000108 | 0 A | ACIDIG01 | SOLID | N/A | 5.5160 | | g/L |
| | | .27589 → .050 l | | | | | | | | |
| 95000229 | BY-106 | 4 SAMPLE | S96T000108 | 0 A | DOSE-02 | SOLID | N/A | 1.7 | | mrad/hour |
| 95000229 | BY-106 | 5 DUP | S96T000108 | 0 A | ACIDIG01 | SOLID | 5.5160 | 5.3440 | N/A | g/L |
| | | .26729 → .050 l | | | | | | | | |
| 95000229 | BY-106 | 6 DUP | S96T000108 | 0 A | DOSE-02 | SOLID | 1.7 | 1.7 | N/A | mrad/hour |
| 95000229 | BY-106 | 7 SPK | S96T000108 | 0 A | ACIDIG01 | SOLID | 20 | 20 | N/A | ~~g/L~~ D.F. 1-25-96 GAM 5.4540 g/l |
| | | .27279 → .050 l | | | | | | | | |
| 95000229 | BY-106 | 8 SPK | S96T000108 | 0 A | DOSE-02 | SOLID | ~~20~~ GAM 1-23-96 NA | ~~20~~ 2 GAM 1-23-96 | N/A | mrad/hour |
| 95000229 | BY-106 | 9 SAMPLE | S96T000252 | 0 A | ACIDIG01 | SOLID | N/A | 4.6300 | | g/L |
| | | .2315g → .050 l | | | | | | | | |
| 95000229 | BY-106 | 10 SAMPLE | S96T000252 | 0 A | DOSE-02 | SOLID | N/A | 2.3 | | mrad/hour |
| 95000229 | BY-106 | 11 DUP | S96T000252 | 0 A | ACIDIG01 | SOLID | 4.6300 | 4.5220 | N/A | g/L |
| | | .2261g → .050 | | | | | | | | |
| 95000229 | BY-106 | 12 DUP | S96T000252 | 0 A | DOSE-02 | SOLID | 2.3 | 2.5 | N/A | mrad/hour |
| 95000229 | BY-106 | 13 SAMPLE | S96T000253 | 0 A | ACIDIG01 | SOLID | N/A | 6.0180 | | g/L |
| | | .3009g → .050 l | | | | | | | | |
| 95000229 | BY-106 | 14 SAMPLE | S96T000253 | 0 A | DOSE-02 | SOLID | N/A | 3 | | mrad/hour |
| 95000229 | BY-106 | 15 DUP | S96T000253 | 0 A | ACIDIG01 | SOLID | 6.0180 | 6.2720 | N/A | g/L |
| | | .3136g → .050 l | | | | | | | | |
| 95000229 | BY-106 | 16 DUP | S96T000253 | 0 A | DOSE-02 | SOLID | 3 | 4 | N/A | mrad/hour |
| 96000022 | SEE | 17 SAMPLE | S96T000223 | 0 A | ACIDIG01 | SOLID | N/A | 5.3960 | | g/L |
| | | .2698g → .050 l | | | | | | | | |
| 96000022 | SEE | 18 SAMPLE | S96T000223 | 0 A | DOSE-02 | SOLID | N/A | 3.5 | | mrad/hour |

*Data Entry Comments:* <10% Solids

*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# 4971

| GROUP | PROJECT | S TYPE | SAMPLE# | R A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| 96000022 | SEE | 19 DUP | S96T000223 | 0 A | ACIDIG01 | SOLID | 5.3960 | 4.2340 | N/A | g/L |
| | | .2117g → .050l | | | | | | | | |
| 96000022 | SEE | 20 DUP | S96T000223 | 0 A | DOSE-02 | SOLID | 3.5 | 3.5 | N/A | mrad/hour |
| 96000022 | SEE | 21 SAMPLE | S96T000224 | 0 A | ACIDIG01 | SOLID | N/A | 5.0560 | | g/L |
| | | .2528g → .050l | | | | | | | | |
| 96000022 | SEE | 22 SAMPLE | S96T000224 | 0 A | DOSE-02 | SOLID | N/A | 3.7 | | mrad/hour |
| 96000022 | SEE | 23 DUP | S96T000224 | 0 A | ACIDIG01 | SOLID | 5.0560 | 4.0840 | N/A | g/L |
| | | .2042g → .050l | | | | | | | | |
| 96000022 | SEE | 24 DUP | S96T000224 | 0 A | DOSE-02 | SOLID | 3.7 | 3.3 | N/A | mrad/hour |

## Final page for worklist # 4971

S A Murphy 1-28-96
Analyst Signature | Date

L S Jones 1-30-96
Analyst Signature Date

S96T000 104 → 108 10u
248 → 252 10B u
249 → 253 10B L
219 → 223 8u
220 → 224 8u
SEE PROGRAM

Reviewed by RK Fuller
1/30/96

Data Entry Comments:

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

# LABCORE Data Entry Template for Worklist# 5513

**Analyst:** GDM **Instrument:** ACD01 SN16355 **Book #** WHC1A/G4J WHC1A/D10 WHC2/G3M WHC2N1G

**Method:** LA-505-159 Rev/Mod 0.0

**Worklist Comment:** BY-106 C121 S1-10B Comp & BY-110 C101 S7 Qd Acid Digest rkf

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK-PREP | | | | ACIDIG01 | SOLID | 1 | .050 | N/A | g/L |
| | | 2 | STD-PREP | | | | ACIDIG01 | SOLID | 20 | 20 | N/A | ~~g/L~~ D.F. 2-15-96 |
| 95000110 | BY-110 | 3 | SAMPLE | S95T004066 | 0 | A | ACIDIG01 | SOLID | N/A | 2.7860 | | g/L |
| | | | .13939 → .050l | | | | | | | | | |
| 95000110 | BY-110 | 4 | SAMPLE | S95T004066 | 0 | | DOSE-02 | SOLID | N/A | 3.5 | | mrad/hour |
| 95000110 | BY-110 | 5 | DUP | S95T004066 | 0 | A | ACIDIG01 | SOLID | 2.7860 | 3.5720 | N/A | g/L |
| | | | .17869 → .050l | | | | | | | | | |
| 95000110 | BY-110 | 6 | DUP | S95T004066 | 0 | | DOSE-02 | SOLID | 3.5 | 3.5 | N/A | mrad/hour |
| 95000110 | BY-110 | 7 | SPK | S95T004066 | 0 | A | ACIDIG01 | SOLID | 20 | 20 | N/A | ~~g/L~~ D.F. 2-15-96 5.1460g/l |
| | | | .15739 → .050l | | | | | | | | | |
| 95000110 | BY-110 | 8 | SPK | S95T004066 | 0 | | DOSE-02 | SOLID | 3.5 | 3.5 | N/A | mrad/hour |
| 95000229 | BY-106 | 9 | SAMPLE | S96T000380 | 0 | A | ACIDIG01 | SOLID | N/A | 5.2360 | | g/L |
| | | | .26189 → .050l | | | | | | | | | |
| 95000229 | BY-106 | 10 | SAMPLE | S96T000380 | 0 | A | DOSE-02 | SOLID | N/A | 2.5 | | mrad/hour |
| 95000229 | BY-106 | 11 | DUP | S96T000380 | 0 | A | ACIDIG01 | SOLID | 5.2360 | 5.3280 | N/A | g/L |
| | | | .26649 → .050l | | | | | | | | | |
| 95000229 | BY-106 | 12 | DUP | S96T000380 | 0 | A | DOSE-02 | SOLID | 2.5 | 2.5 | N/A | mrad/hour |

## Final page for worklist # 5513

GDMurphy 2-15-96
Analyst Signature Date

L Jones 2-15-96
Analyst Signature Date

S95T002208 → 4066
S96T000378 → 380
Reviewed by RK Fuller 2/15/96

*Data Entry Comments:* <1% DOUBLES

*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.*

# INORGANIC ANALYSES

THIS PAGE WAS INTENTIONALLY LEFT BLANK

 BY/OL , OP

# LABCORE Data Entry Template for Worklist# 354

**Analyst:** KLV **Instrument:** DSC01 _____ **Method:** LA-514-113 B-1

**Worklist Comment:** Please run under N2. JMF WHC-SD-WM-DP-103, REV. 0

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | STD | 12N14A | | | DSC-01 | LIQUID | 28.75 | 28.9 | N/A | Joule |
| 2 | SAMPLE | S94T000389 | 0 | | DSC-01 | LIQUID | N/A | 0 | | Joule |
| 3 | DUP | S94T000389 | 0 | | DSC-01 | LIQUID | 0 | 0 | N/A | Joule |

## Final page for worklist # 354

Analyst Signature — Date 1/4/95

1/10/95

Verified by Blandina Valenzuela 1/11/95

*Data Entry Comments:* S94T000389 displayed three endotherms, the first at 104.6°C with a delta H of 1984.6 J/g, the second at 271.8°C with a delta H of 124.3 J/g and the third at 435.5°C with a delta H of ~~193 J/g~~ 194 J/g

*Units shown for QC (SPK) may not reflect the actual units.* The thermograms have been blank corrected. BDV 1/11/95

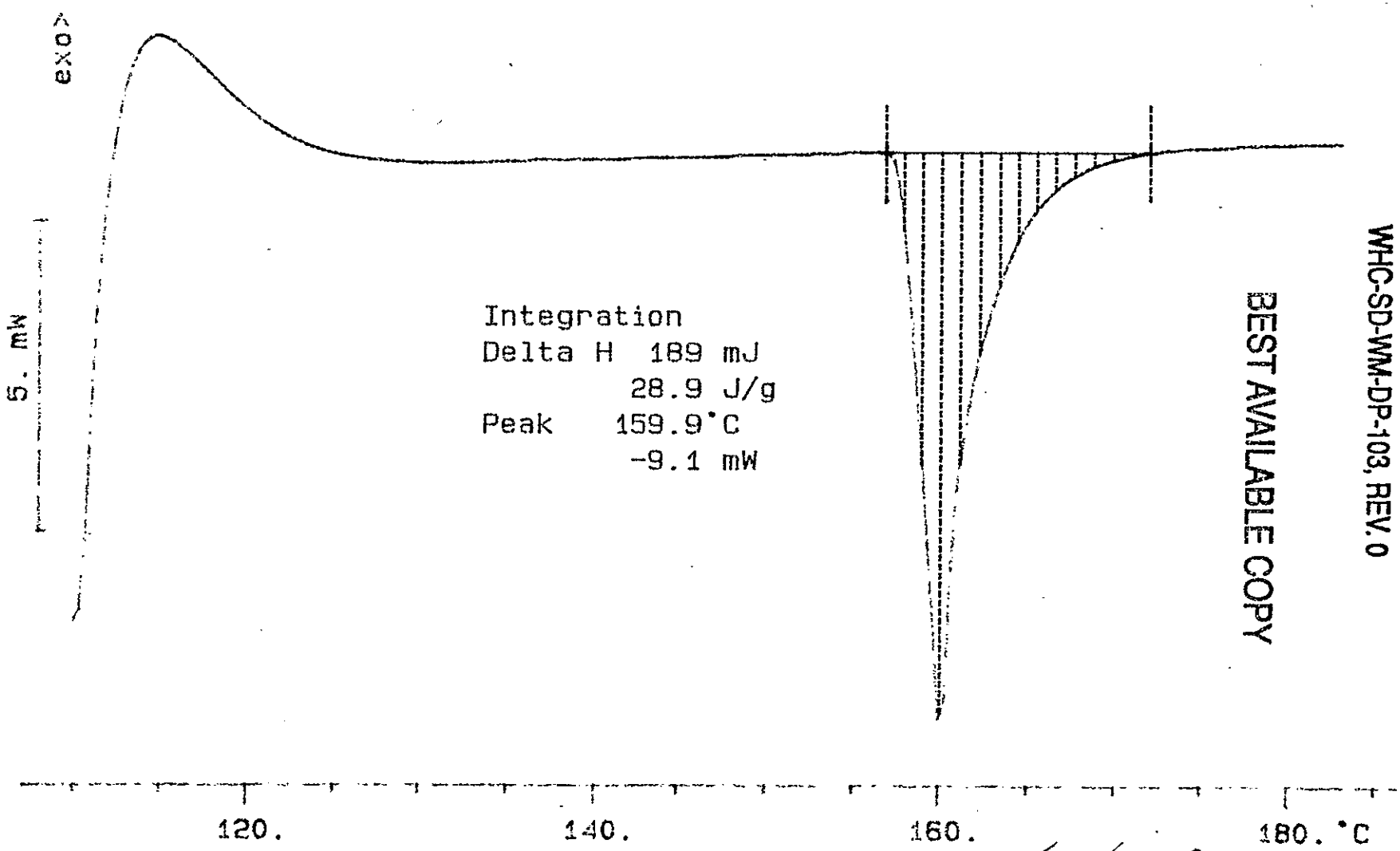
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 378 TO 380.

DSC STD 12N14-A 8-11-95 BDY

6.546 mg Rate: 10.0 °C/min

File: 00107.001 DSC METTLER 04-Jan-95

Ident: 0.0 222-S Laboratory




BEST AVAILABLE COPY

WHC-SD-WM-DP-103, REV. 0

WHC-SD-WM-DP-103, REV. 1

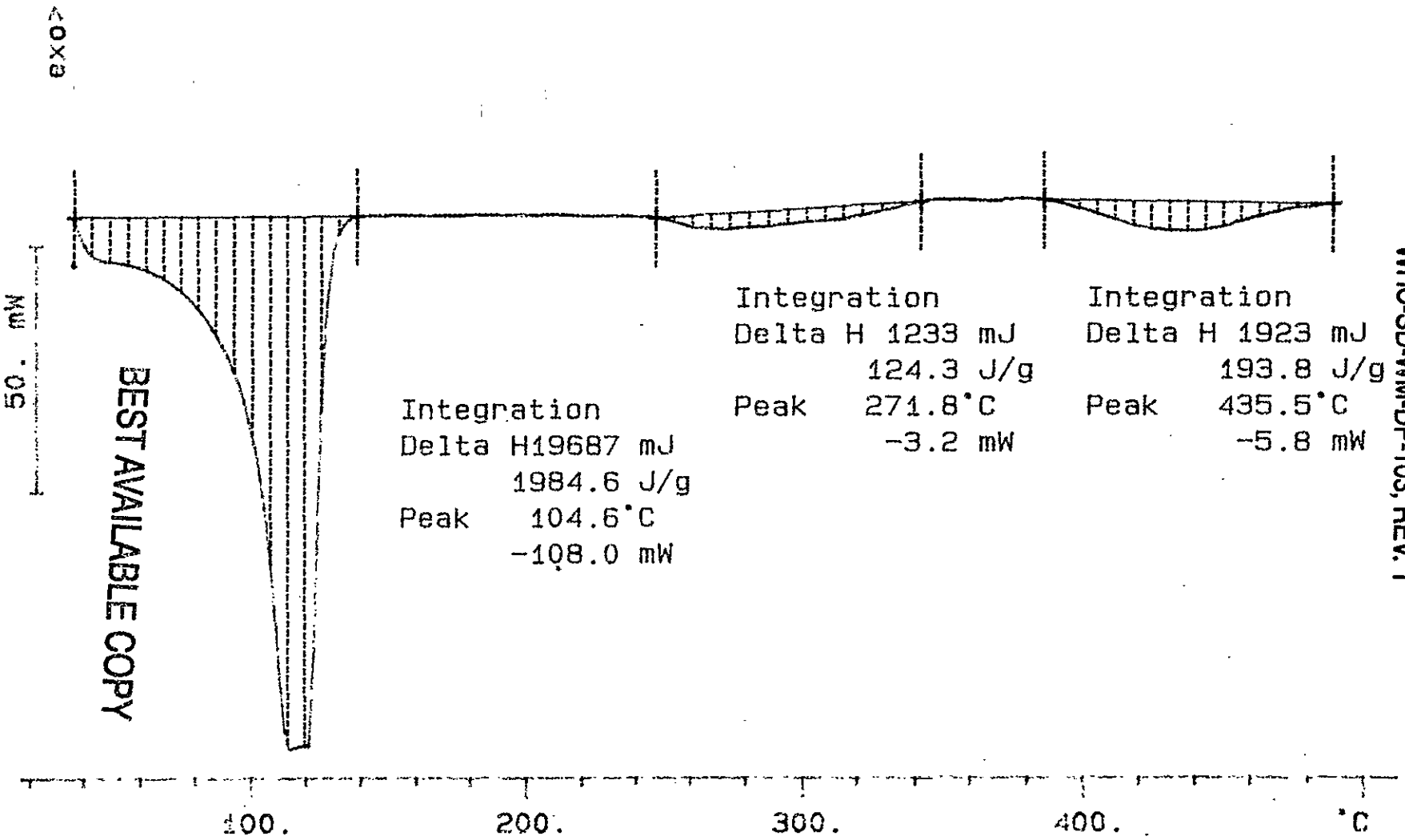
H L Vogel 1/4/95

Baseline Subtracted JMF 1/31/95

~~Blank Corrected~~ KV 1/4/95

S94T000389 N2 File: 00109.001 DSC METTLER 04-Jan-95

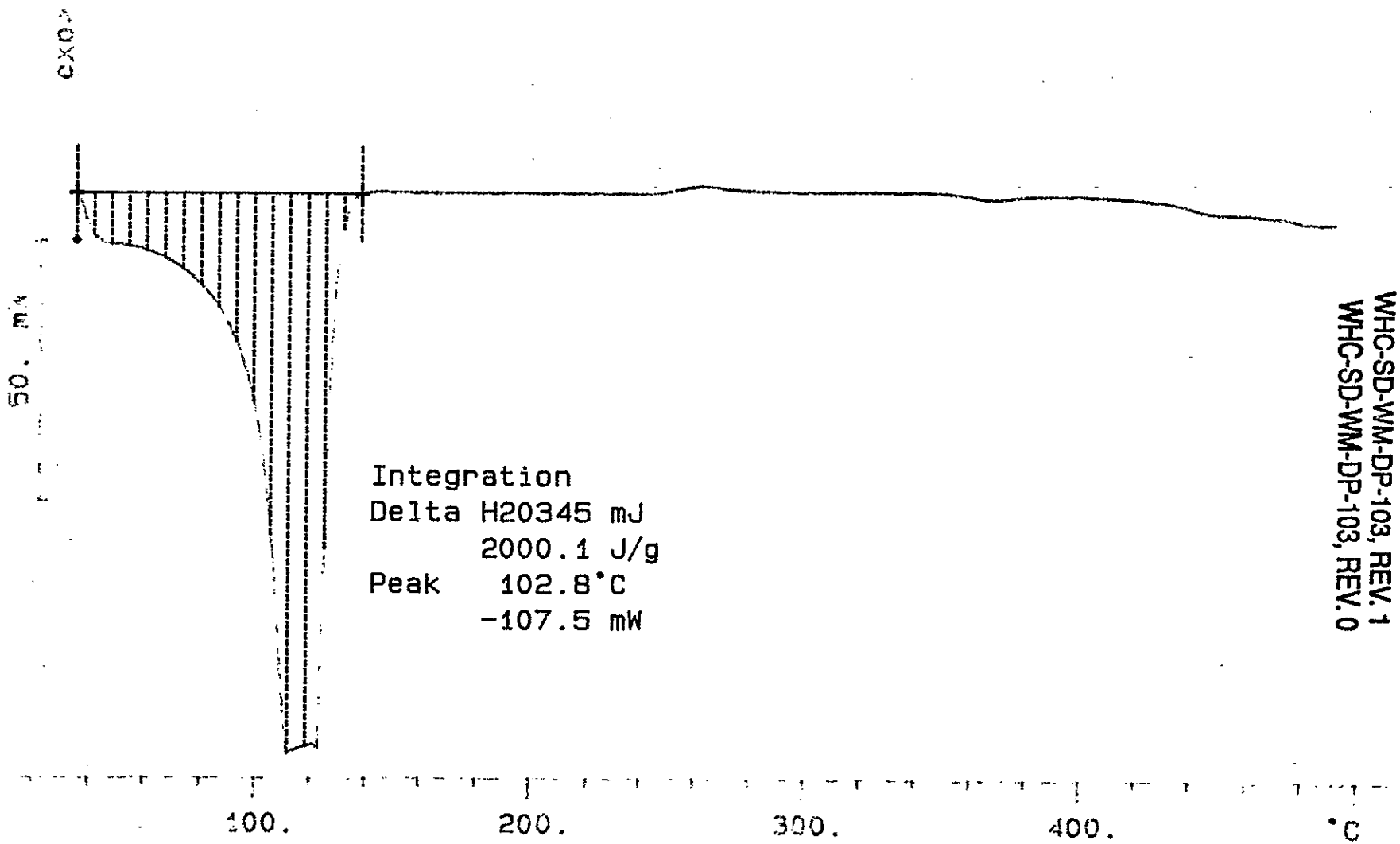
9.920 mg Rate: 10.0 °C/min Ident: 0.0 222-S Laboratory




BEST AVAILABLE COPY

Baseline subtracted JMF 1/31/95
~~Blank corrected~~ KW 1/4/95

S947000389 (DUP) N2 File: 00112.001 DSC METTLER 04-Jan-95
10.172 mg Rate: 10.0 °C/min Ident: 0.0 222-S Laboratory




WHC-SD-WM-DP-103, REV. 1
WHC-SD-WM-DP-103, REV. 0

 By106

# LABCORE Data Entry Template for Worklist# 356

**Analyst:** KLV **Instrument:** TGA01 _____ **Method:** LA-560-112 A-2

**Worklist Comment:** Please run under N2. JMF WHC-SD-WM-DP-103, REV. 0

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | STD | 42N8A | | | TGA-01 | LIQUID | 59.19 | 58.82 | N/A | % |
| 2 | SAMPLE | S94T000389 | 0 | | TGA-01 | LIQUID | N/A | 100.63 | | % |
| 3 | DUP | S94T000389 | 0 | | TGA-01 | LIQUID | 100.63 | 100.38 | N/A | % |

## Final page for worklist # 356

Analyst Signature — Date 1/4/95

1/10/95

Verified by Blandina Valenzuela 1/11/95

*Data Entry Comments:* JMF 1/11/95
Sample S94T000389 is 100% within experimental error of the instrument.

*Units shown for QC (SPK) may not reflect the actual units.*

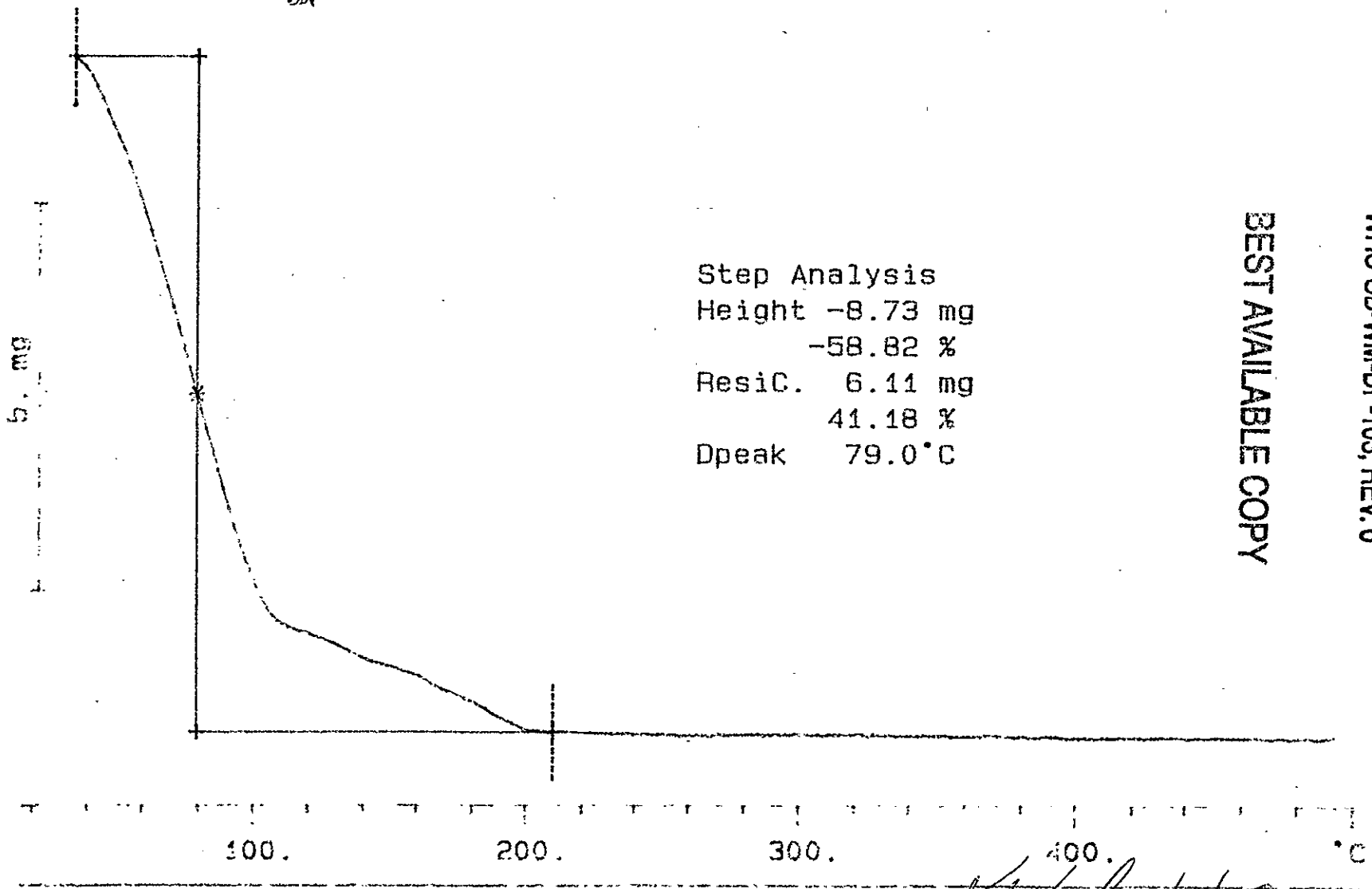
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 382 TO 384.

TGA STD 42N8-A 8-11-95 BDV

14.848 mg Rate: 10.0 °C/min

File: 00108.001 TG METTLER 04-Jan-95

Ident: 0.0 222-S Laboratory




BEST AVAILABLE COPY

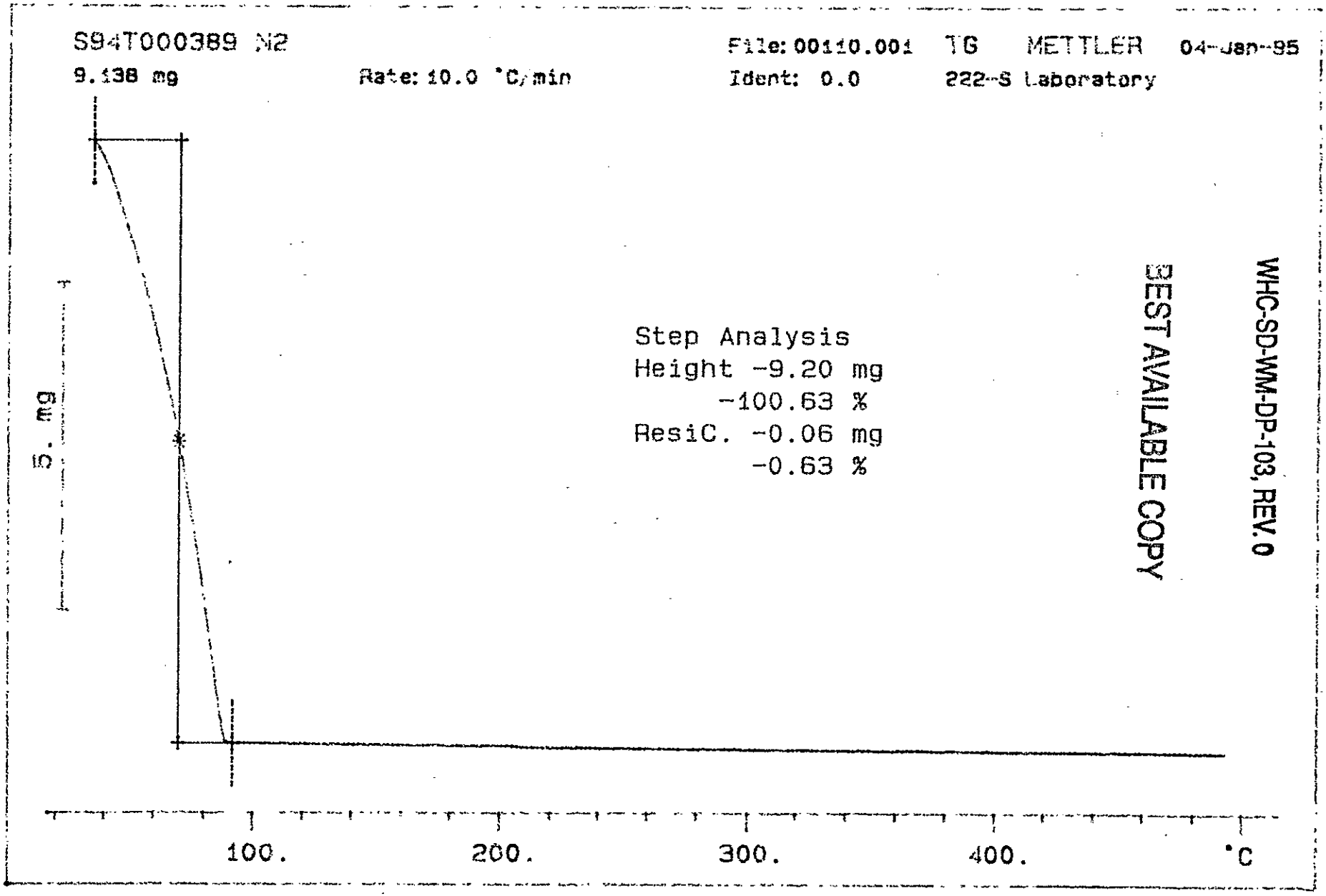
WHC-SD-WM-DP-103, REV. 0

WHC-SD-WM-DP-103, REV. 1

382

1/4/95

BEST AVAILABLE COPY



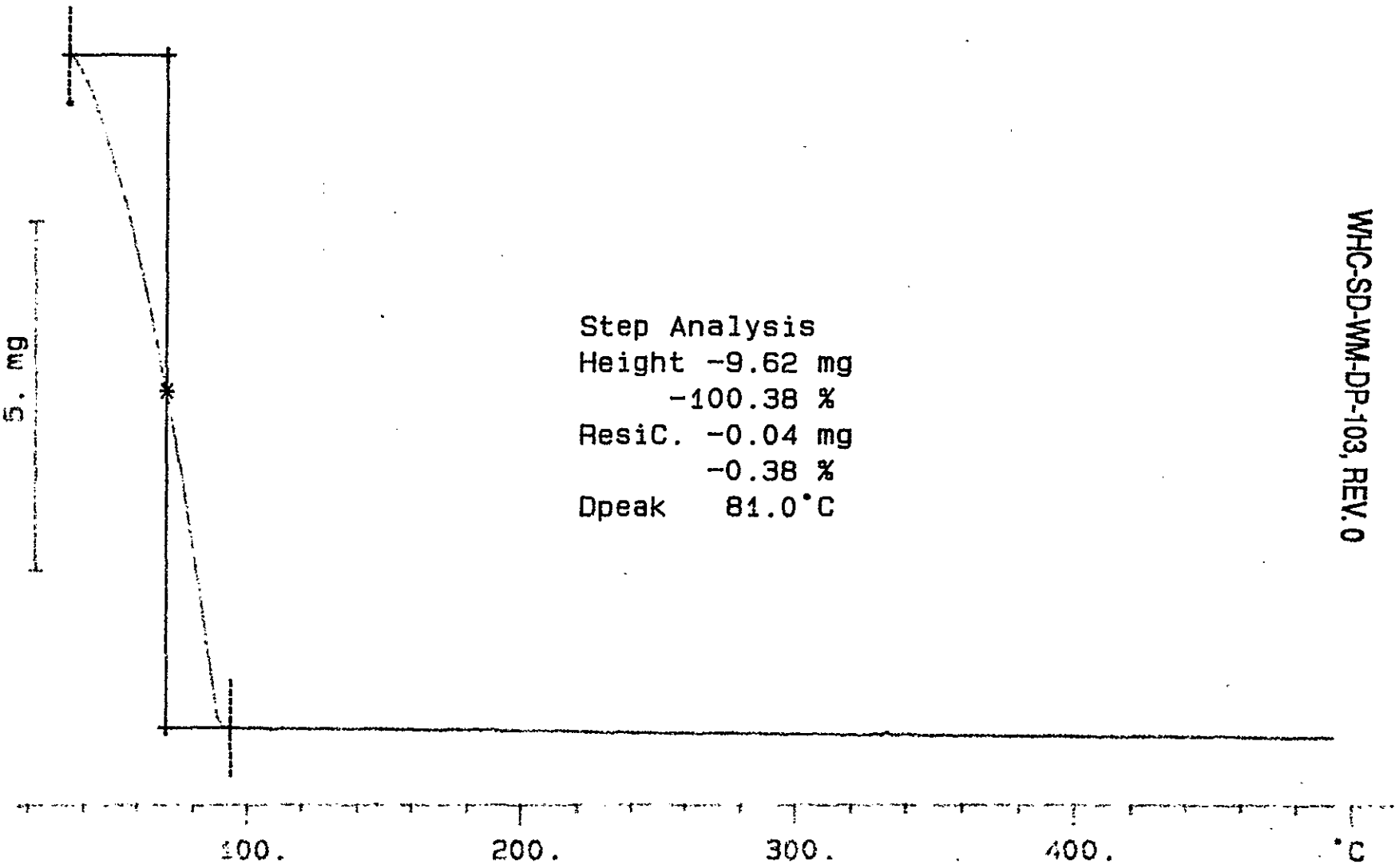

WHC-SD-WM-DP-103, REV. 0

BEST AVAILABLE COPY

BEST AVAILABLE COPY

S94T000389 (DUP) N2 File: 00113.001 TG METTLER 04-Jan-95

9.585 mg Rate: 10.0 °C/min Ident: 0.0 222-S Laboratory



# LABCORE Data Entry Template for Worklist# 5872

**Analyst:** RDM **Instrument:** TGA0 3 **Book #** 75N8A

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

**Worklist Comment:** Rerun. Please run BY-106 TGAs under N2. bdv

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | TGA-03 | SOLID | 59.2 | 60.52 | N/A | % |
| 95000229 | BY-106 | 2 | SAMPLE | S96T000248 | 1 | | TGA-03 | SOLID | N/A | 48.82 | | % |
| 95000229 | BY-106 | 3 | DUP | S96T000248 | 1 | | TGA-03 | SOLID | 48.82 | 48.86 | N/A | % |
| | | 4 | STD | | | | TGA-03 | SOLID | 59.2 | 60.17 | N/A | % |
| 95000229 | BY-106 | 5 | SAMPLE | S96T000249 | 0 | | TGA-03 | SOLID | N/A | 48.24 | | % |
| 95000229 | BY-106 | 6 | DUP | S96T000249 | 0 | | TGA-03 | SOLID | 48.24 | 4893 | N/A | % |

## Final page for worklist # 5872

See attached for signatures
**Analyst Signature** **Date** 2/28/96 BDV

R Jones 2-28-96
**Analyst Signature** **Date**

Verified by Blandina Valenzuela 2/29/96

*Data Entry Comments:* S96T000248 results are the sum of two weight loss steps
S96T000249 duplicate result is the sum of two weight loss steps.

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

# LABCORE Data Entry Template for Worklist# 5872

**Analyst:** Fbm **Instrument:** TGA0 _____ **Book #** 75N8A

**Method:** LA-560-112 Rev/Mod _____

**Worklist Comment:** Rerun. Please run BY-106 TGAs under N2. bdv

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | TGA-01 | SOLID | | | N/A | % |
| 95000229 | BY-106 | 2 | SAMPLE | S96T000248 | 0 | | TGA-01 | SOLID | N/A | | | % |
| 95000229 | BY-106 | 3 | DUP | S96T000248 | 0 | | TGA-01 | SOLID | | | N/A | % |
| 95000229 | BY-106 | 4 | SAMPLE | S96T000249 | 0 | | TGA-01 | SOLID | N/A | | | % |
| 95000229 | BY-106 | 5 | DUP | S96T000249 | 0 | | TGA-01 | SOLID | | | N/A | % |

## Final page for worklist # 5872

P[illegible] 2/24/96

**Analyst Signature** **Date**

**Analyst Signature** **Date**

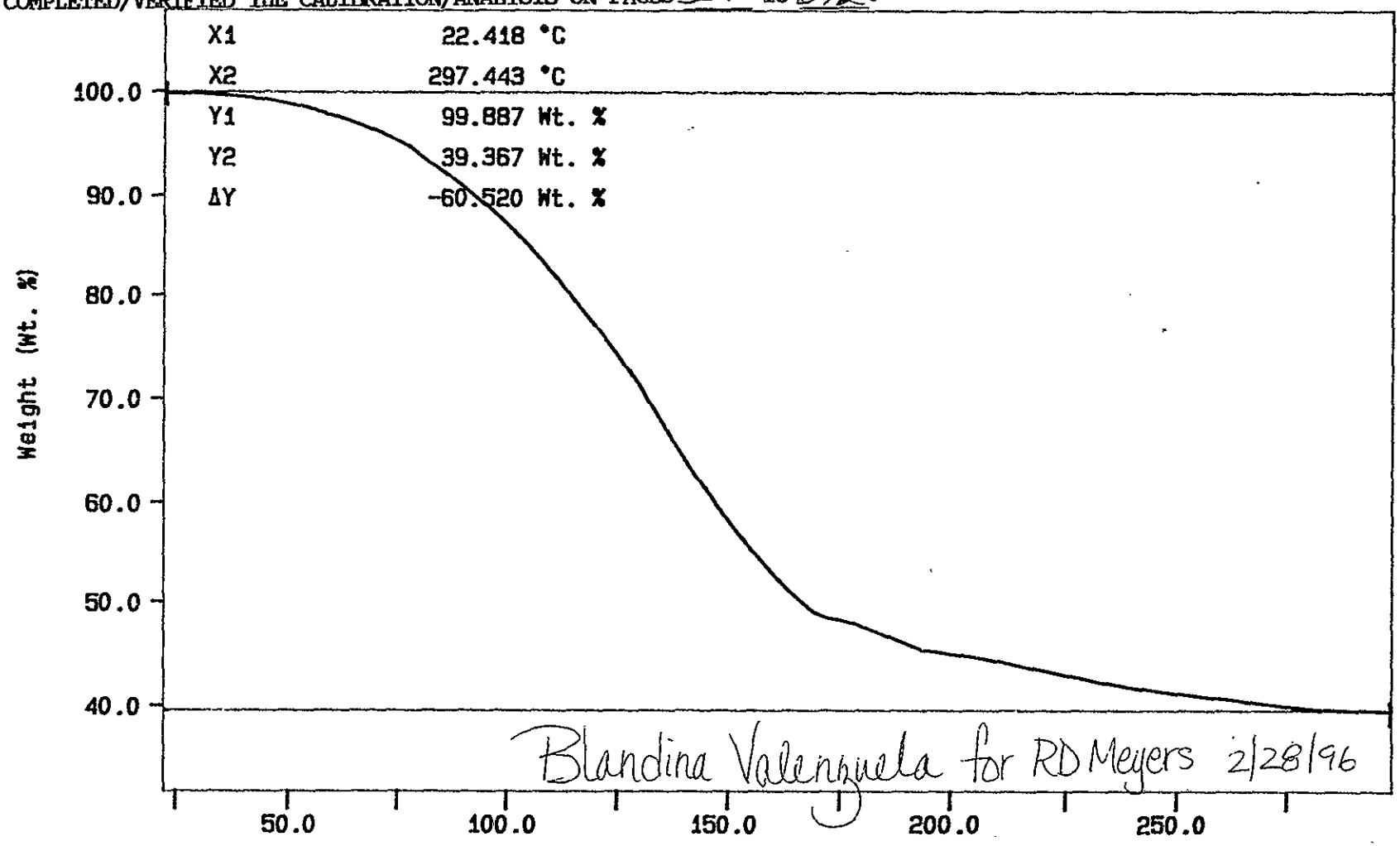
Other instrument was used.
2/26/96
BDV

*Data Entry Comments:*

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

Curve 1: TGA
File info: ter022301 Fri Feb 23 19:37:41 1996
Sample Weight: 18.327 mg
TERLIQ 75N8A

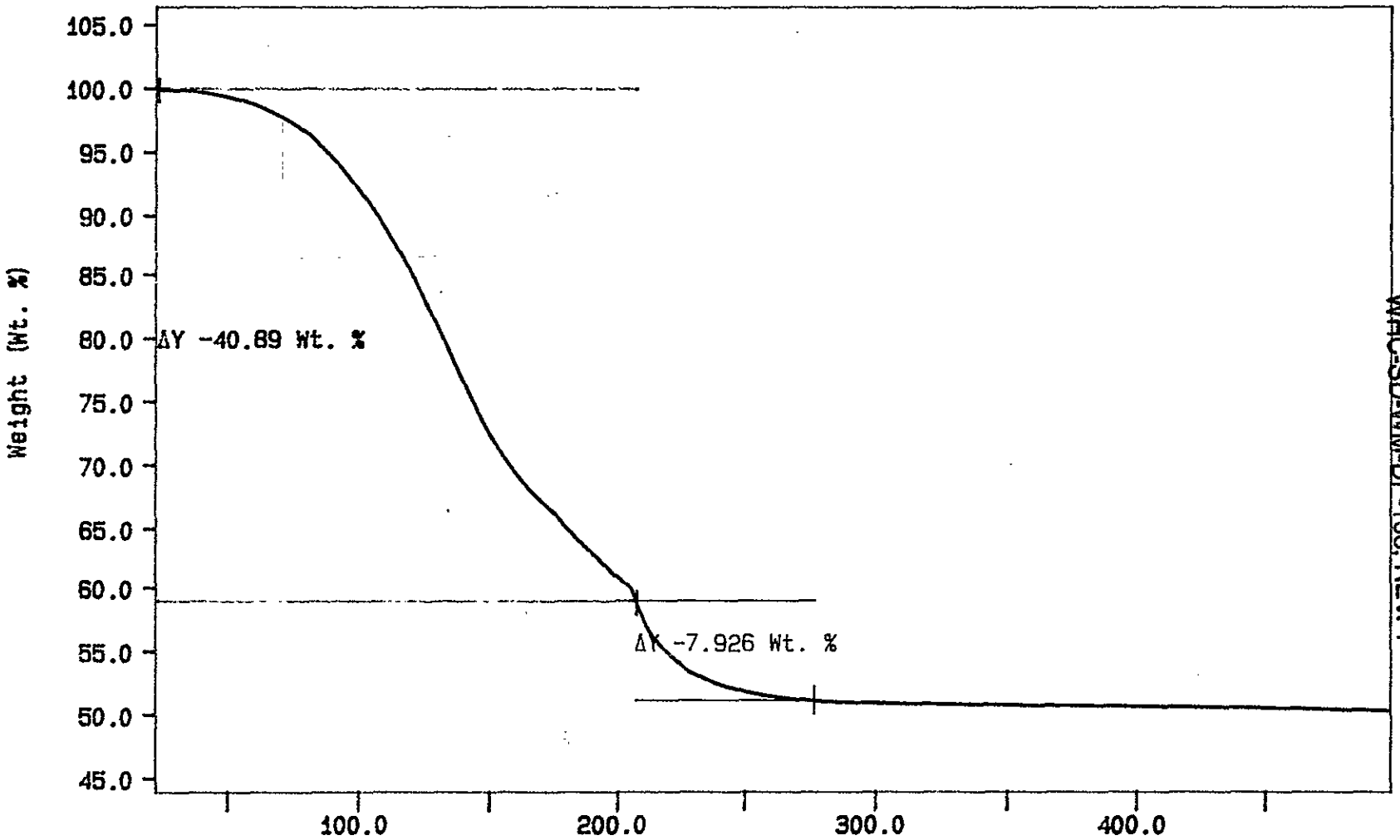
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 384 TO 392.




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

rd meyers
PERKIN-ELMER
7 Series Thermal Analysis System
Fri Feb 23 19:47:09 1996

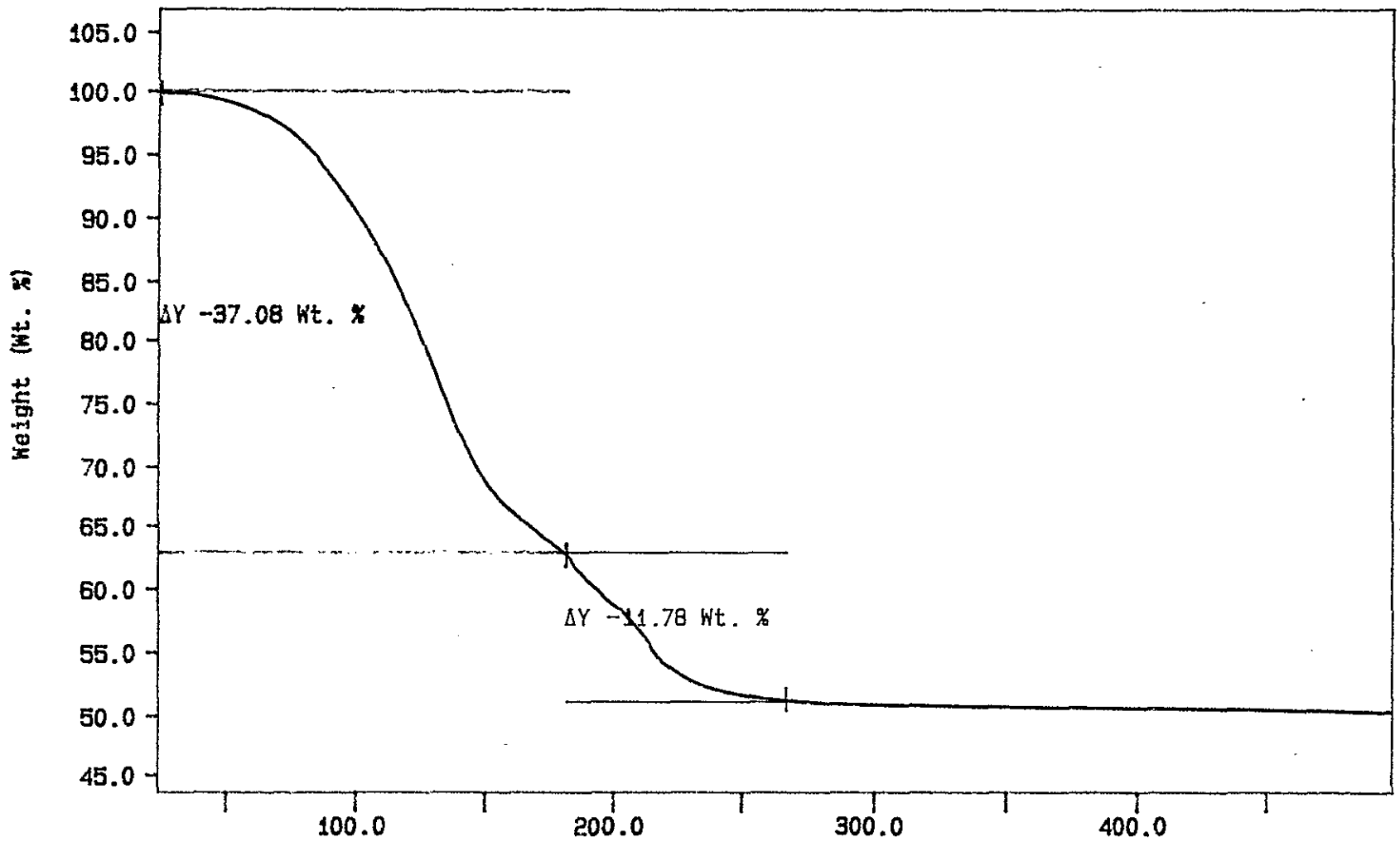
Curve 1: TGA
File info: sam022301 Fri Feb 23 23:07:52 1996
Sample Weight: 19.013 mg
S96T000248




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

rd meyers
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Feb 28 10:09:30 1996

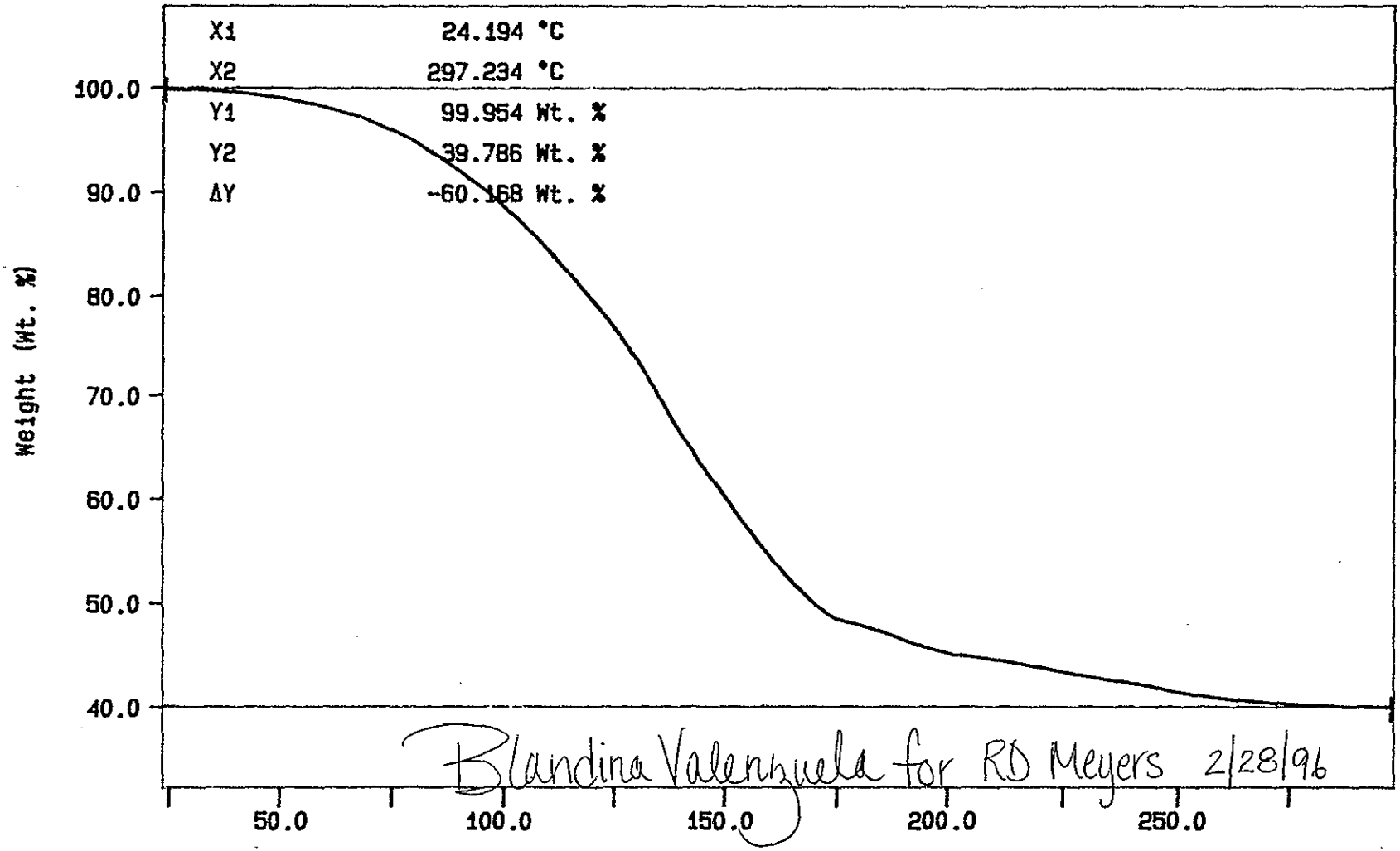
Curve 1: TGA
File info: sam022302 Sat Feb 24 01:55:07 1996
Sample Weight: 13.411 mg
S96T000248DUP




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

rd meyers
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Feb 28 10:19:55 1996

Curve 1: TGA
File info: ter022401 Sat Feb 24 19:28:06 1996
Sample Weight: 18.100 mg
TERLIQ 75N8A

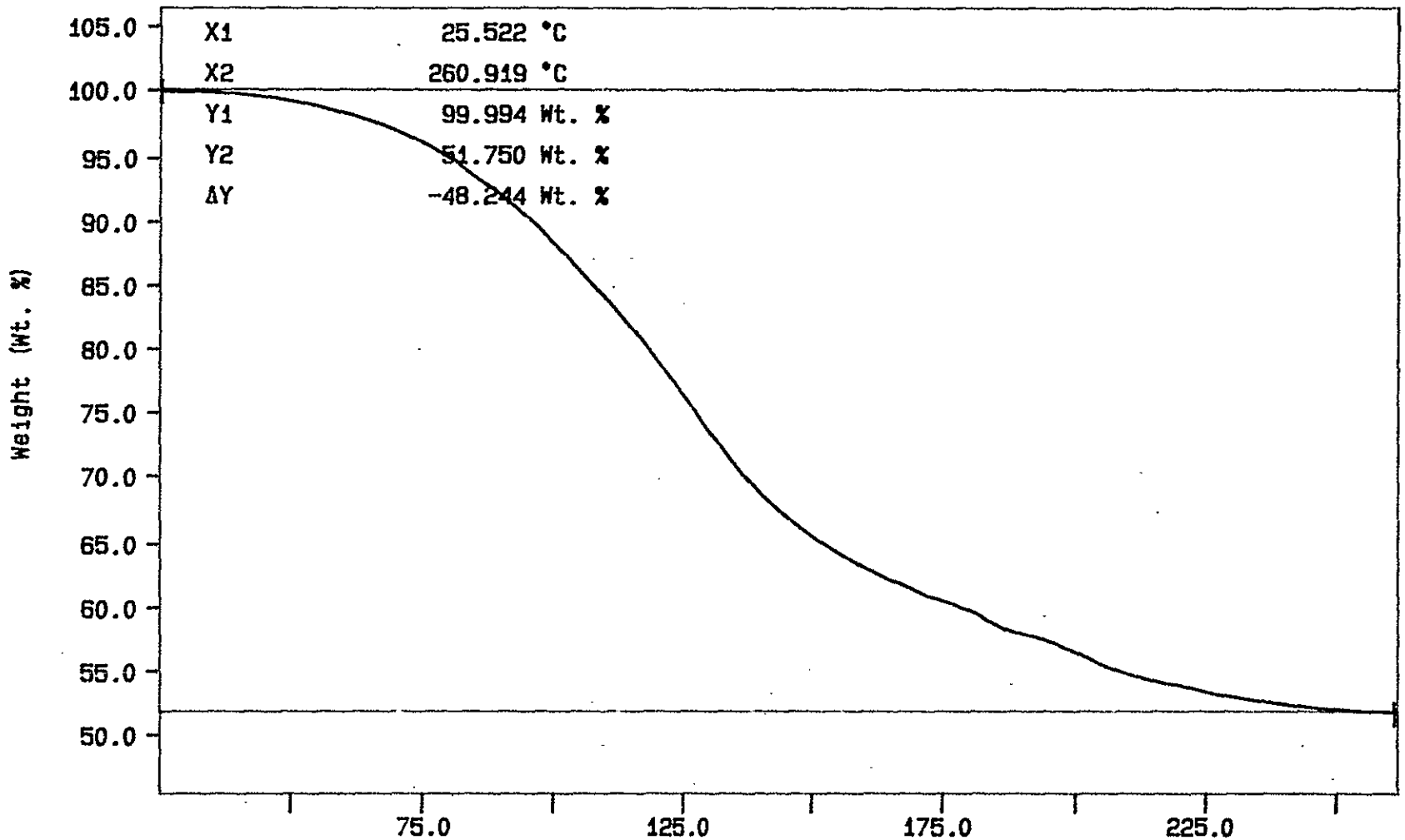



Blandina Valenzuela for RD Meyers 2/28/96

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

rd meyers
PERKIN-ELMER
7 Series Thermal Analysis System
Sat Feb 24 19:33:25 1996

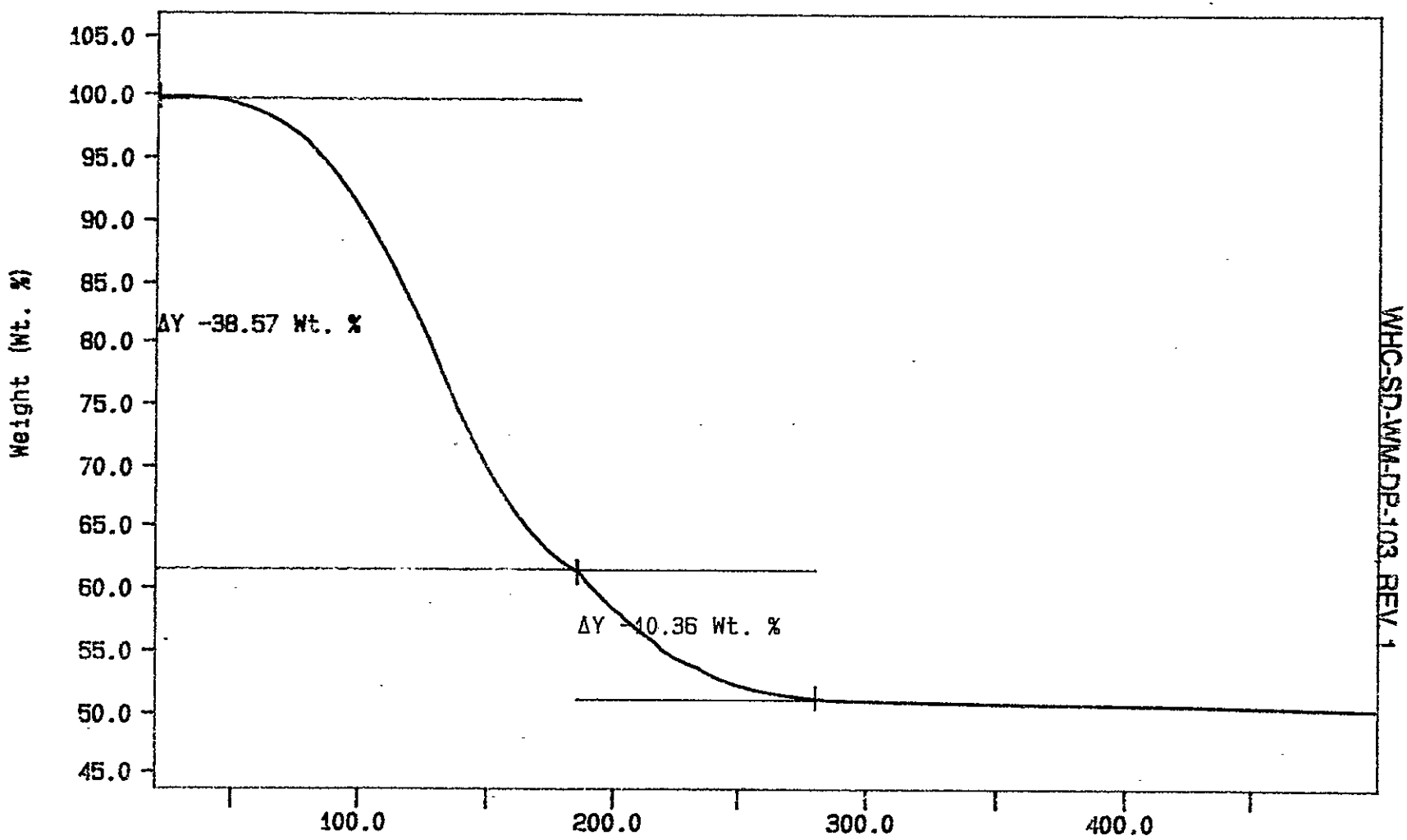
Curve 1: TGA
File info: sam022401 Sat Feb 24 22:43:04 1996
Sample Weight: 9.061 mg
S96T000249




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

rd meyers
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Feb 25 00:47:49 1996

Curve 1: TGA
File info: sam022402 Sun Feb 25 02:12:13 1996
Sample Weight: 14.956 mg
S96T000249DUP




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

rd meyers
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Feb 28 10:40:06 1996

# LABCORE Data Entry Template for Worklist# 7064

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

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

**Worklist Comment:** BY-106 TGA PLEASE RUN UNDER N2. RCJ

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | TGA-01 | SOLID | 59.2 | 59.24 | N/A | % |
| 95000229 | BY-106 | 2 | SAMPLE | S96T000378 | 0 | | TGA-01 | SOLID | N/A | 17.02 | | % |
| 95000229 | BY-106 | 3 | DUP | S96T000378 | 0 | | TGA-01 | SOLID | 17.02 | 17.16 | N/A | % |

## Final page for worklist # 7064

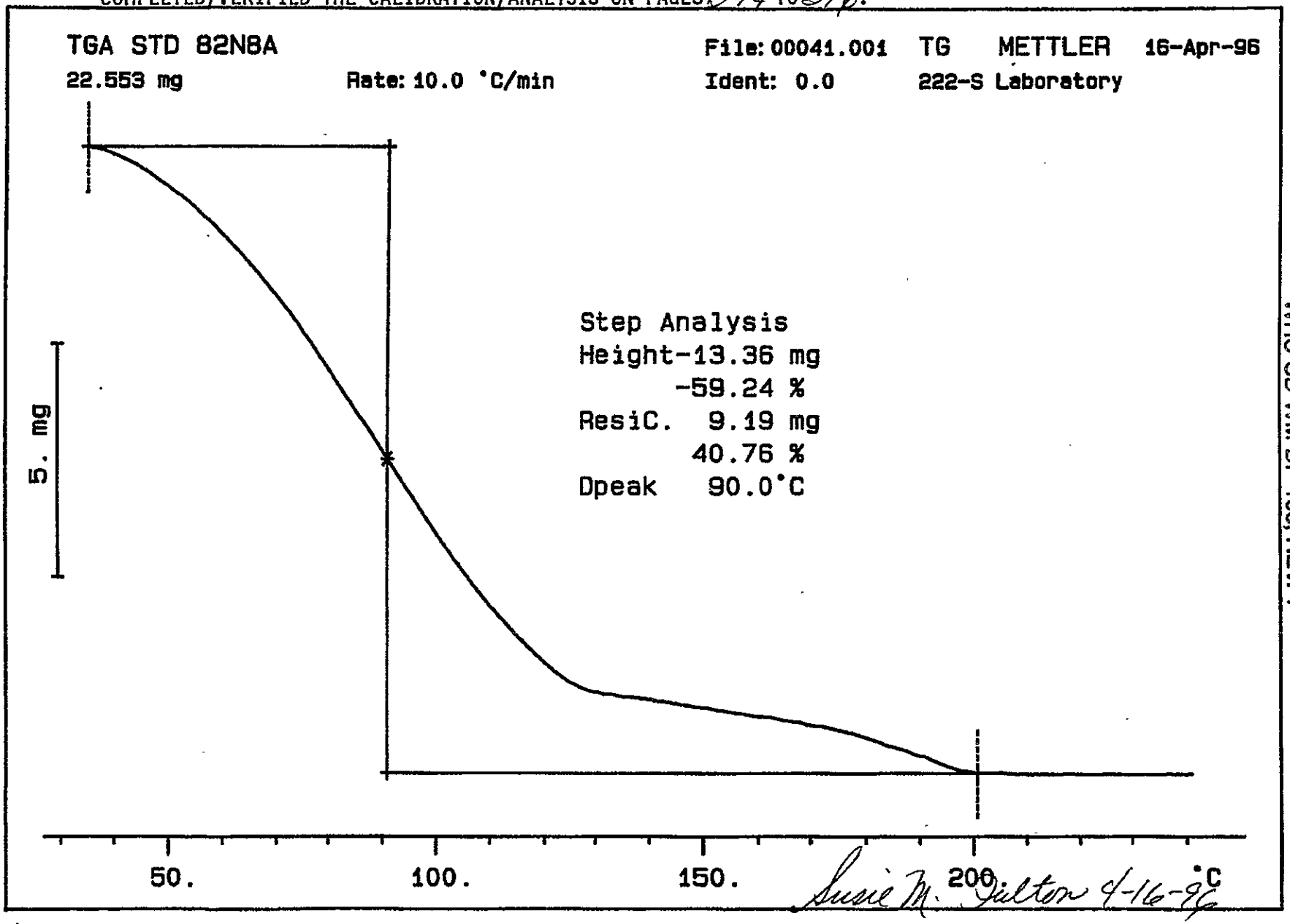
Susie M. Dalton 4-16-96
**Analyst Signature** **Date**

**Analyst Signature** **Date**

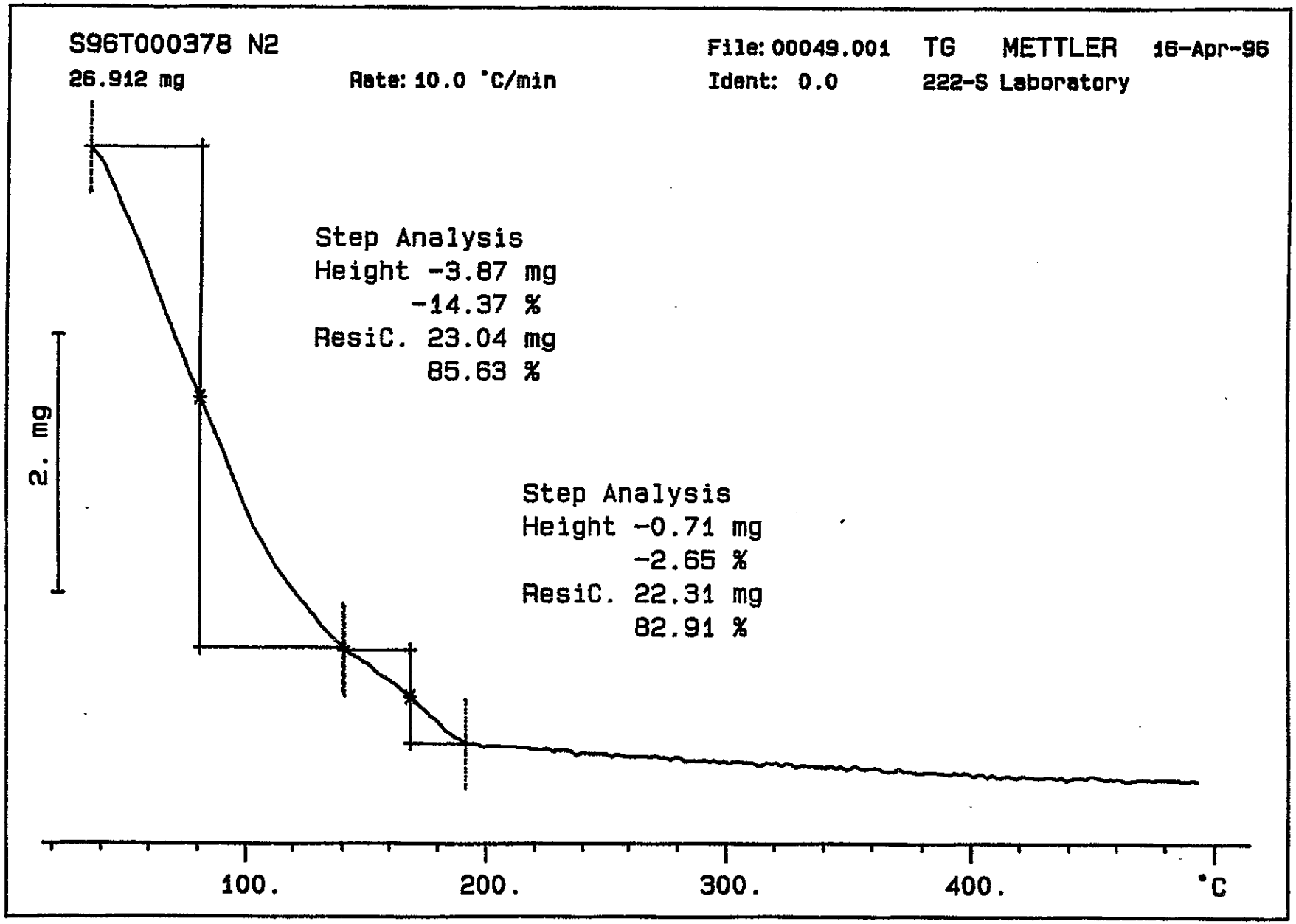
*Data Entry Comments:* Sample results are the sum of two weight loss steps

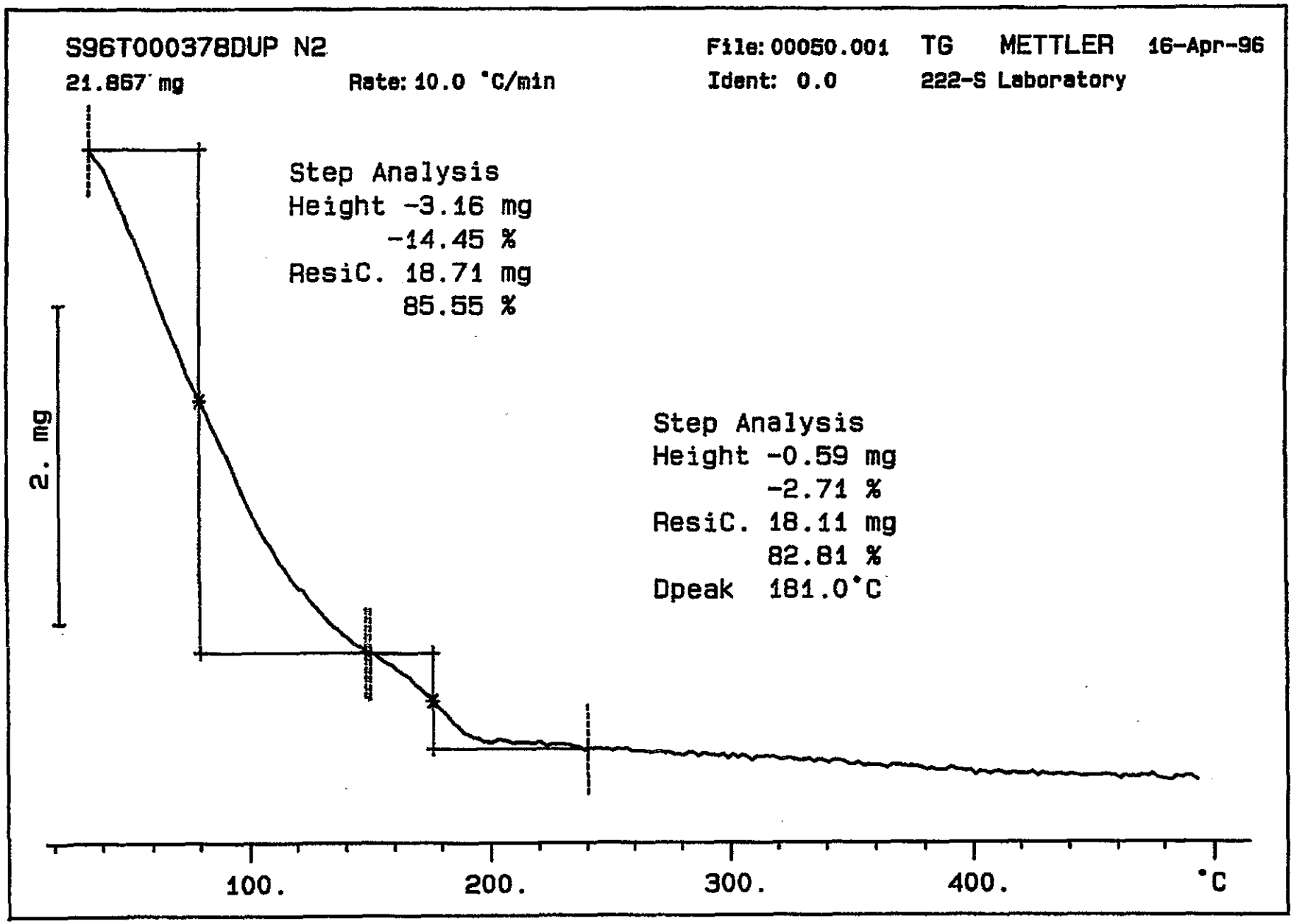
*Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.*

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 394 TO 396.




Susie M. Fulton 4-16-96


S96T000378 N2
26.912 mg
Rate: 10.0 °C/min
File: 00049.001
Ident: 0.0
TG
METTLER
16-Apr-96
222-S Laboratory
Step Analysis
Height -3.87 mg
-14.37 %
ResiC. 23.04 mg
85.63 %
Step Analysis
Height -0.71 mg
-2.65 %
ResiC. 22.31 mg
82.91 %
2. mg
100.
200.
300.
400.
°C


S96T000378DUP N2
21.867 mg
Rate: 10.0 °C/min
File: 00050.001
Ident: 0.0
TG
METTLER
222-S Laboratory
16-Apr-96
Step Analysis
Height -3.16 mg
-14.45 %
ResiC. 18.71 mg
85.55 %
Step Analysis
Height -0.59 mg
-2.71 %
ResiC. 18.11 mg
82.81 %
Dpeak 181.0°C
2. mg
100.
200.
300.
400.
°C

THE FOLLOWING ANALYSES WERE RERUN. THEY ARE INCLUDED IN THE DATA PACKAGE BUT THE RESULTS HAVE NOT BEEN REPORTED IN THE FINAL SUMMARY REPORTS.

THIS PAGE WAS INTENTIONALLY LEFT BLANK

# LABCORE Data Entry Template for Worklist# 242-duplicate

**Analyst:** KLV **Instrument:** TGA01 **Method:** LA-560-112 A-2

**Worklist Comment:** Please run TGA under N2. JMF

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | STD | 42NS-A | | | TGA-01 | LIQUID | 59.19 | 58.66 | N/A | % |
| 2 | SAMPLE | S94T000321 | 0 | | TGA-01 | LIQUID | N/A | 49.91 | | % |
| 3 | DUP | S94T000321 | 0 | | TGA-01 | LIQUID | 49.91 | 50.44 | N/A | % |

## Final page for worklist # 242

Analyst Signature: KLV

Date: 12/17/94

Accidental Duplicate Worklist Not entered into labcore J.M. Fuge 12/20/94

DATA NOT USED IN PACKAGE

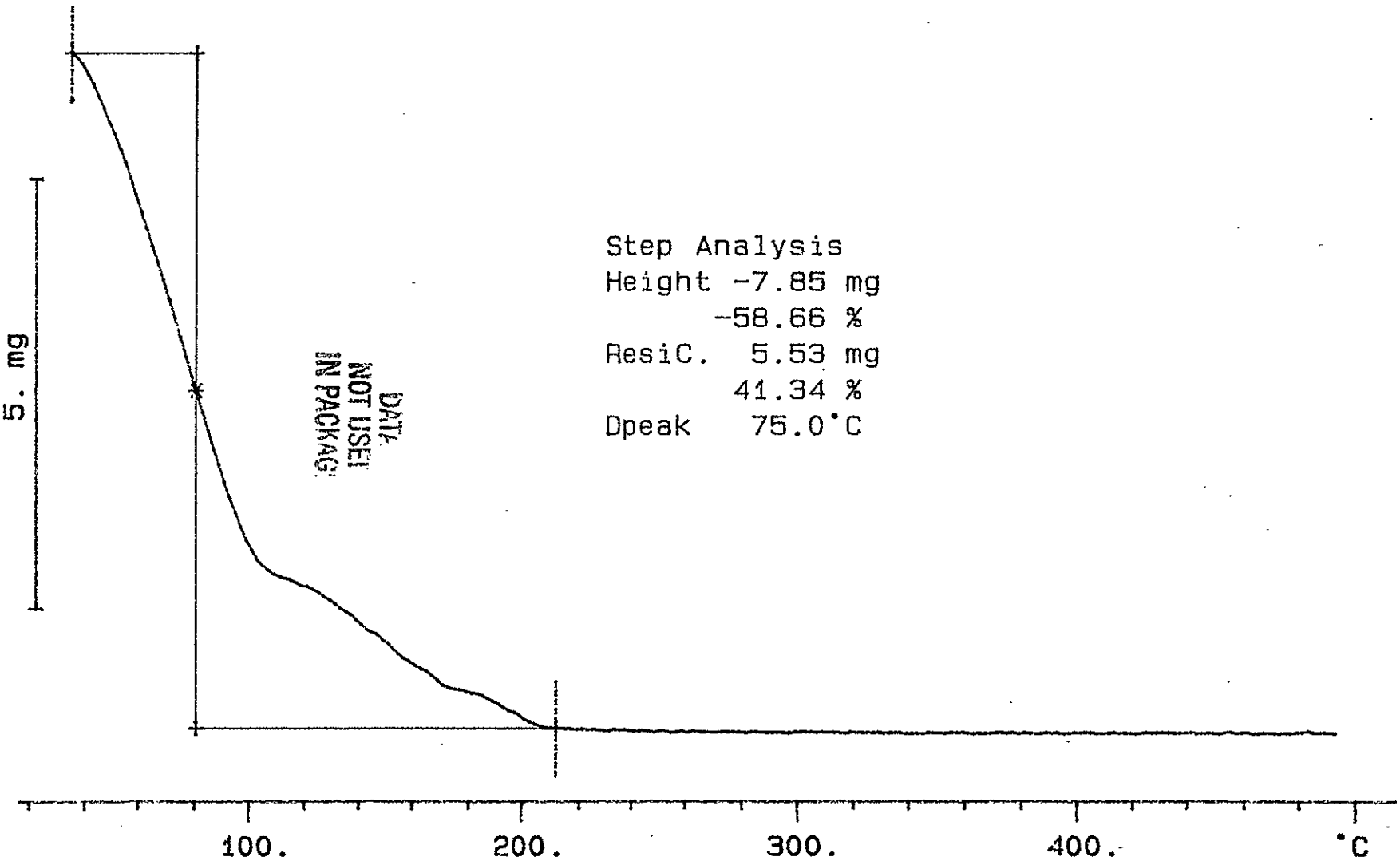
*Data Entry Comments:* S94T000321 water loss region has an indistinct step, and extends just past 200°C. J M Fuge
This data was not entered into labcore but agrees well with data used from run done on 12/14/94 by DW Smith.
J.M. Fuge 12/20/94

*Units shown for QC (SPK) may not reflect the actual units.*

TGA STD
13.387 mg

Rate: 10.0 °C/min

File: 00001.001 TG METTLER 17-Dec-94
Ident: 0.0 222-S Laboratory




Step Analysis
Height -7.85 mg
-58.66 %
ResiC. 5.53 mg
41.34 %
Dpeak 75.0°C

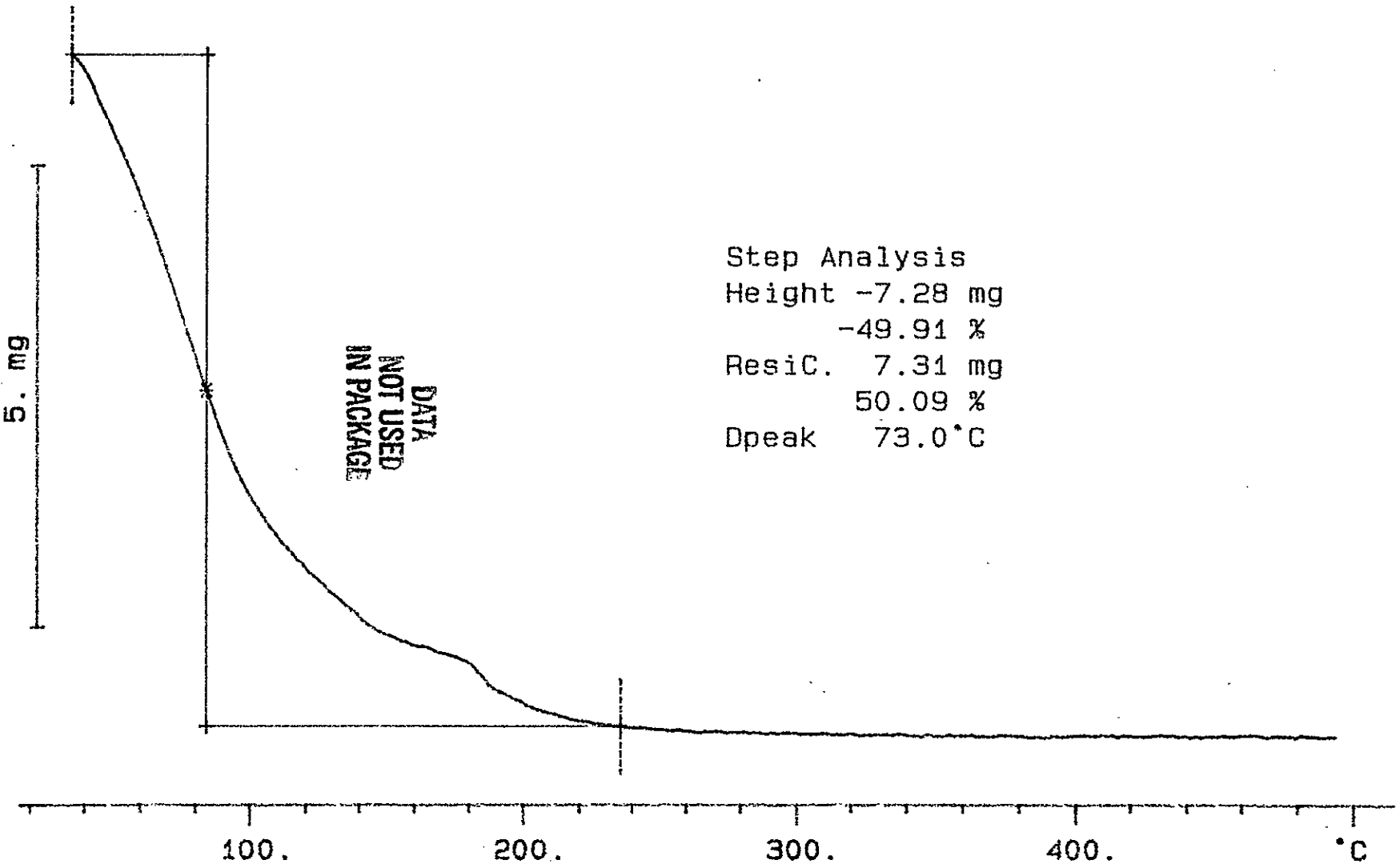
DATA NOT USED IN PACKAGE

12/17/94

BEST AVAILABLE COPY

S94T000321 N2
14.585 mg
Rate: 10.0 °C/min

File: 00003.001 TG METTLER 17-Dec-94
Ident: 0.0 222-S Laboratory




DATA NOT USED IN PACKAGE

Step Analysis
Height -7.28 mg
-49.91 %
ResiC. 7.31 mg
50.09 %
Dpeak 73.0°C

BEST AVAILABLE COPY

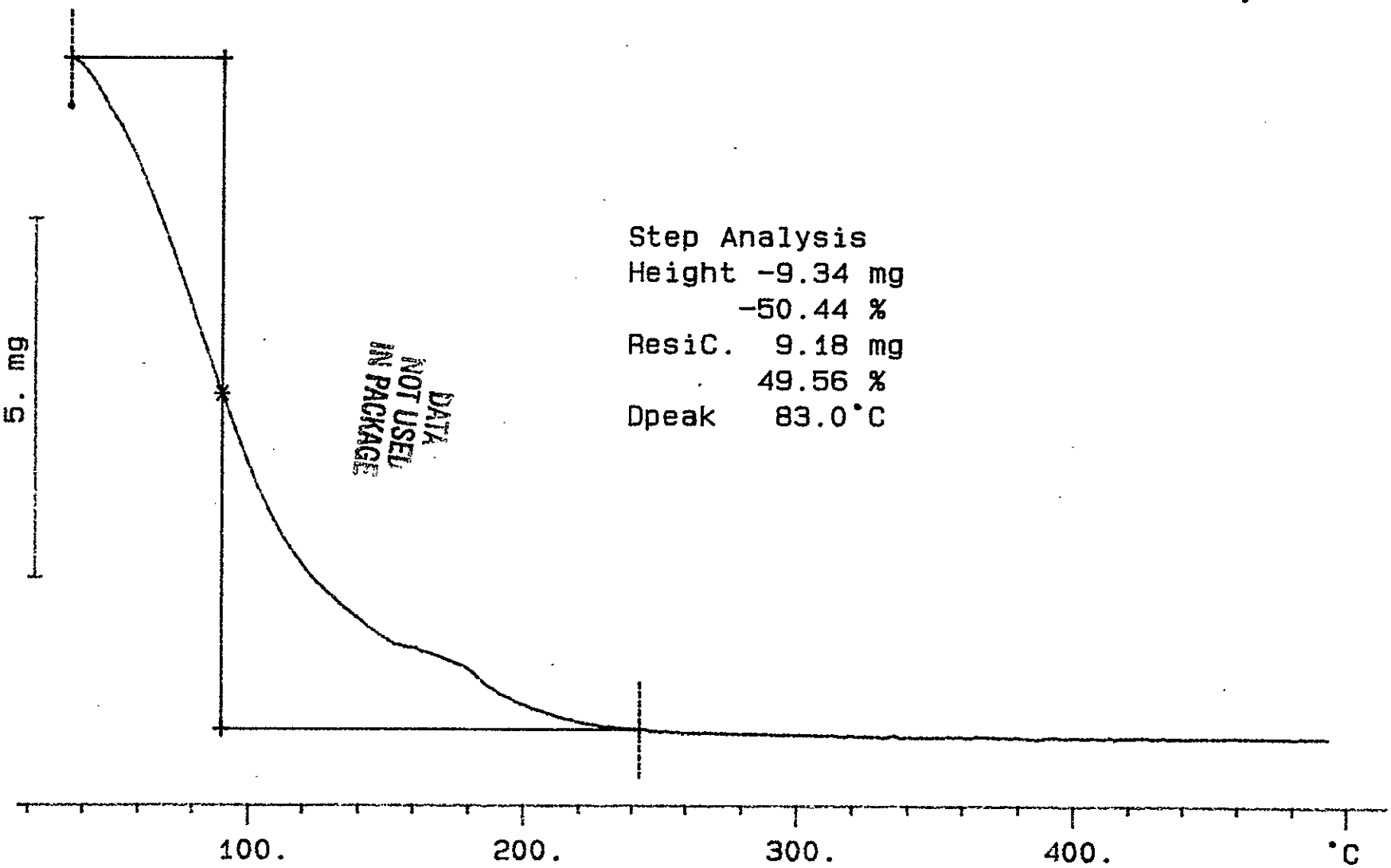
S94T000321 (DUP) N2

18.523 mg

Rate: 10.0 °C/min

File: 00005.001 TG METTLER 17-Dec-94

Ident: 0.0 222-S Laboratory




DATA NOT USED IN PACKAGE

Step Analysis
Height -9.34 mg
-50.44 %
ResiC. 9.18 mg
49.56 %
Dpeak 83.0°C

# LABCORE Data Entry Template for Worklist# 476

**Analyst:** SMF **Instrument:** BA001 _____ **Method:** LA-510-112/c-3

**Worklist Comment:** SpG, BY-106 drainable liquid, RWS 1/26/95

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | STD | 26N16-B | | | SPG-01 | RWS 2/6/95 LIQUID | 1.42 ~~1.4175~~ | 1.37 ~~1.366~~ | N/A | Sp.G. |
| 2 | SAMPLE | S94T000371 | 0 | | SPG-01 | RWS 2/6/95 LIQUID | N/A | 1.28 ~~1.280~~ | 0.01 | Sp.G. |
| 3 | DUP | S94T000371 | 0 | | SPG-01 | RWS 2/6/95 LIQUID | 1.28 ~~1.280~~ | 1.28 ~~1.282~~ | N/A | Sp.G. |
| 4 | SAMPLE | S95T000004 | 0 | | SPG-01 | RWS 2/6/95 LIQUID | N/A | 1.24 ~~1.242~~ | 0.01 | Sp.G. |
| 5 | DUP | S95T000004 | 0 | | SPG-01 | RWS 2/6/95 LIQUID | 1.24 ~~1.242~~ | 1.25 ~~1.252~~ | N/A | Sp.G. |
| 6 | SAMPLE | S94T000389 | 0 | | SPG-01 | RWS 2/6/95 LIQUID | N/A | 0.974 | 0.01 | Sp.G. |
| 7 | DUP | S94T000389 | 0 | | SPG-01 | LIQUID | 0.974 | 0.950 | N/A | Sp.G. |
| 8 | STD | 26N16-B | | | SPG-01 | RWS 2/6/95 LIQUID | 1.42 ~~1.4175~~ | 1.38 ~~1.378~~ | N/A | Sp.G. |

## Final page for worklist # 476

Sm Walton — 2-1-95

**Analyst Signature** — **Date**

RW Schroeder — 2/6/95

Worklist Approved [signature] — 2/6/95

*Data Entry Comments:* STD's Sample size ~~.25 .25 .250 ml~~ .07538 ml SMF 2-1-95

Samples run at .07538 ml due to high Beta/Gamma

*Units shown for QC (SPK) may not reflect the actual units.*

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

Tare Wt

02/01/95 15:06:38

| | |
|---|---|
| 1 | 1.8740 g |
| 2 | 1.9007 g |
| 3 | 1.8981 g |
| 4 | 1.9520 g |

--------- END ----------

Gross Wt.

02/01/95 15:13:11

| | |
|---|---|
| 1 | 1.9774 g |
| 2 | 2.0032 g |
| 3 | 2.0027 g |
| 4 | 2.0552 g |

--------- END ----------

02/01/95 15:14:07

0.0001 g

## SPECIFIC GRAVITY : LA-510-112 (C-3)

| Type | | Standard | STANDARD |
|---|---|---|---|
| Standard | Gross Weight (W2) | 1.9774 | 2.0032 |
| Work List | Tare Weight (W1) | 1.8740 | 1.9007 |
| 476 | Weight of Solution (W2-W1) | 0.1034 | 0.1025 |
| Test Code | Volume of Solution µL | 75.3800 | 75.3800 |
| SpG | Specific Gravity | 1.3717 | 1.3598 |
| Matrix | Specific Gravity (Average) | 1.3657 | |
| LIQUID | | | |
| Sample # | | | |
| Std# 26N16-B | | | |
| Instrument Code | Gross Weight (W2) = Wt. of vial + cap + cotton + solution | | |
| | Tare Weight (W1) = Wt. of vial + cap + cotton | | |
| Analyst | | | |
| SM Fulton | Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL] | | |
| Date | | | |
| 02/01/95 | v RESULT v | | |
| Time | Specific Gravity Average = | 1.366 | |
| 03:00 PM | | | |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 02/07/95 |
| Approved by: | [signature] | Date: | 2/8/95 |

Form 510112L1 Rev. 1.1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

# SPECIFIC GRAVITY : LA-510-112 (C-3)

| Type |
|---|
| Sample |
| **Work List** |
| 476 |
| **Test Code** |
| SpG |
| **Matrix** |
| LIQUID |
| **Sample #** |
| S94T000371 |
| **Instrument Code** |
| |
| **Analyst** |
| SM Fulton |
| **Date** |
| 02/01/95 |
| **Time** |
| 03:00 PM |

| | Sample | REPLICATE |
|---|---|---|
| Gross Weight (W2) | 1.9932 | 1.8278 |
| Tare Weight (W1) | 1.8969 | 1.7312 |
| Weight of Solution (W2-W1) | 0.0963 | 0.0966 |
| Volume of Solution µL | 75.3800 | 75.3800 |
| Specific Gravity | 1.2775 | 1.2815 |
| Specific Gravity (Average) | 1.2795 | |

Gross Weight (W2) = Wt. of vial + cap + cotton + solution
Tare Weight (W1) = Wt. of vial + cap + cotton

Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL]

v RESULT v

| | |
|---|---|
| Specific Gravity Average = | 1.280 |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 02/07/95 |
| Approved by: | [signature] | Date: | 2/8/95 |

Form 510112L1 Rev. 1.1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

# SPECIFIC GRAVITY : LA-510-112 (C-3)

| Type |
|---|
| Duplicate |
| **Work List** |
| 476 |
| **Test Code** |
| SpG |
| **Matrix** |
| LIQUID |
| **Sample #** |
| S94T000371 |
| **Instrument Code** |
| |
| **Analyst** |
| SM Fulton |
| **Date** |
| 02/01/95 |
| **Time** |
| 03:00 PM |

| | Duplicate | REPLICATE |
|---|---|---|
| Gross Weight (W2) | 2.0361 | 2.0395 |
| Tare Weight (W1) | 1.9387 | 1.9436 |
| Weight of Solution (W2-W1) | 0.0974 | 0.0959 |
| Volume of Solution µL | 75.3800 | 75.3800 |
| Specific Gravity | 1.2921 | 1.2722 |
| Specific Gravity (Average) | 1.2822 | |

Gross Weight (W2) = Wt. of vial + cap + cotton + solution
Tare Weight (W1) = Wt. of vial + cap + cotton

Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL]

v RESULT v

| | |
|---|---|
| Specific Gravity Average = | 1.282 |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 02/07/95 |
| Approved by: | [signature] | Date: | 2/8/95 |

Form 510112L1 Rev. 1.1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

# SPECIFIC GRAVITY : LA-510-112 (C-3)

| Type |
|---|
| Sample |
| Work List |
| 476 |
| Test Code |
| SpG |
| Matrix |
| LIQUID |
| Sample # |
| S95T000004 |
| Instrument Code |
| |
| Analyst |
| SM Fulton |
| Date |
| 02/01/95 |
| Time |
| 03:00 PM |

| | Sample | REPLICATE |
|---|---|---|
| Gross Weight (W2) | 2.0627 | 2.0626 |
| Tare Weight (W1) | 1.9685 | 1.9695 |
| Weight of Solution (W2-W1) | 0.0942 | 0.0931 |
| Volume of Solution µL | 75.3800 | 75.3800 |
| Specific Gravity | 1.2497 | 1.2351 |
| Specific Gravity (Average) | 1.2424 | |

Gross Weight (W2) = Wt. of vial + cap + cotton + solution
Tare Weight (W1) = Wt. of vial + cap + cotton

Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL]

v RESULT v

| | |
|---|---|
| Specific Gravity Average = | 1.242 |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 02/07/95 |
| Approved by: | [signature] | Date: | 2/8/95 |

Form 510112L1 Rev. 1.1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

# SPECIFIC GRAVITY : LA-510-112 (C-3)

| Type |
|---|
| Duplicate |
| Work List |
| 476 |
| Test Code |
| SpG |
| Matrix |
| LIQUID |
| Sample # |
| S95T000004 |
| Instrument Code |
| |
| Analyst |
| SM Fulton |
| Date |
| 02/01/95 |
| Time |
| 03:00 PM |

| | Duplicate | REPLICATE |
|---|---|---|
| Gross Weight (W2) | 1.9887 | 1.9880 |
| Tare Weight (W1) | 1.8943 | 1.8937 |
| Weight of Solution (W2-W1) | 0.0944 | 0.0943 |
| Volume of Solution µL | 75.3800 | 75.3800 |
| Specific Gravity | 1.2523 | 1.2510 |
| Specific Gravity (Average) | 1.2517 | |

Gross Weight (W2) = Wt. of vial + cap + cotton + solution
Tare Weight (W1) = Wt. of vial + cap + cotton

Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL]

v RESULT v

| Specific Gravity Average = | 1.252 |
|---|---|

| | | | |
|---|---|---|---|
| Data Entry by: | | Date: | 02/07/95 |
| Approved by: | | Date: | 2/8/95 |

Form 510112L1 Rev. 1.1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

# SPECIFIC GRAVITY : LA-510-112 (C-3)

| Type |
|---|
| Sample |
| Work List |
| 476 |
| Test Code |
| SpG |
| Matrix |
| LIQUID |
| Sample # |
| S94T000389 |
| Instrument Code |
| |
| Analyst |
| SM Fulton |
| Date |
| 02/01/95 |
| Time |
| 03:00 PM |

| | Sample | REPLICATE |
|---|---|---|
| Gross Weight (W2) | 1.9468 | 1.9025 |
| Tare Weight (W1) | 1.8736 | 1.8288 |
| Weight of Solution (W2-W1) | 0.0732 | 0.0737 |
| Volume of Solution µL | 75.3800 | 75.3800 |
| Specific Gravity | 0.9711 | 0.9777 |
| Specific Gravity (Average) | 0.9744 | |

Gross Weight (W2) = Wt. of vial + cap + cotton + solution
Tare Weight (W1) = Wt. of vial + cap + cotton

Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL]

v RESULT v

Specific Gravity Average = 0.974

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 02/07/95 |
| Approved by: | [signature] | Date: | 2/8/95 |

Form 510112L1 Rev. 1.1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

# SPECIFIC GRAVITY : LA-510-112 (C-3)

| Type |
|---|
| Duplicate |
| Work List |
| 476 |
| Test Code |
| SpG |
| Matrix |
| LIQUID |
| Sample # |
| S94T000389 |
| Instrument Code |
| |
| Analyst |
| SM Fulton |
| Date |
| 02/01/95 |
| Time |
| 03:00 PM |

| | Duplicate | REPLICATE |
|---|---|---|
| Gross Weight (W2) | 1.8997 | 1.9797 |
| Tare Weight (W1) | 1.8284 | 1.9077 |
| Weight of Solution (W2-W1) | 0.0713 | 0.072 |
| Volume of Solution µL | 75.3800 | 75.3800 |
| Specific Gravity | 0.9459 | 0.9552 |
| Specific Gravity (Average) | 0.9505 | |

Gross Weight (W2) = Wt. of vial + cap + cotton + solution

Tare Weight (W1) = Wt. of vial + cap + cotton

Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL]

v RESULT v

| | |
|---|---|
| Specific Gravity Average = | 0.951 |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 02/07/95 |
| Approved by: | [signature] | Date: | 2/8/95 |

Form 510112L1 Rev. 1.1

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

# SPECIFIC GRAVITY : LA-510-112 (C-3)

| Type | | Standard | STANDARD |
|---|---|---|---|
| Standard | Gross Weight (W2) | 2.0027 | 2.0552 |
| Work List | Tare Weight (W1) | 1.8981 | 1.9520 |
| 476 | Weight of Solution (W2-W1) | 0.1046 | 0.1032 |
| Test Code | Volume of Solution µL | 75.3800 | 75.3800 |
| SpG | Specific Gravity | 1.3876 | 1.3691 |
| Matrix | Specific Gravity (Average) | 1.3783 | |
| LIQUID | | | |
| Sample # | | | |
| STD# 26N16-B | | | |
| Instrument Code | Gross Weight (W2) = Wt. of vial + cap + cotton + solution | | |
| | Tare Weight (W1) = Wt. of vial + cap + cotton | | |
| Analyst | | | |
| SM Fulton | Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL] | | |
| Date | | | |
| 02/01/95 | v RESULT v | | |
| Time | Specific Gravity Average = | 1.378 | |
| 03:00 PM | | | |

| | | | |
|---|---|---|---|
| Data Entry by: | | Date: | 02/07/95 |
| Approved by: | | Date: | 2/8/95 |

Form 510112L1 Rev. 1.1

*worklistrpt Version 2.1 05/15/95*
*02/28/96 08:49*



# LABCORE Data Entry Template for Worklist# 5958

**Analyst:** SMF **Instrument:** BA001 **Book #** 133N16-17

**Method:** LA-510-112 Rev/Mod C-3

**Worklist Comment:** BY-106 SPG-01. RCJ

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | STD | | | | SPG-01 | LIQUID | 1.398 | 1.382 | N/A | Sp.G. |
| 95000229 | BY-106 | 2 | SAMPLE | S96T000258 | 0 | | SPG-01 | LIQUID | N/A | 1.420 | 0.010 | Sp.G. |
| 95000229 | BY-106 | 3 | DUP | S96T000258 | 0 | | SPG-01 | LIQUID | 1.420 | 1.404 | N/A | Sp.G. |

## Final page for worklist # 5958

[signature] 3-13-96
**Analyst Signature** **Date** 0130

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

Reviewed RW Schneider 3/18/96

*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.*

# SPECIFIC GRAVITY: LA-510-112 (C-3)

| WORKLIST # | ANALYST SIGNATURE | ANALYSIS DATE | ANALYSIS TIME | INSTRUMENT CODE |
|---|---|---|---|---|
| 5958 | SMFulton | 3-13-96 | 0130 | |

[ ] SAMPLE [X] STANDARD [ ] DUPLICATE

SAMPLE # = STD # = 133N16A

| | | REPLICATE |
|---|---|---|
| TARE WEIGHT (g) | 1.85466 | 1.86217 |
| GROSS WEIGHT (g) | 2.06251 | 2.06954 |
| VOL. of SOLUTION (mL) | ~~.10517~~ SMF .15017 3-13-96 | .15017 |

[ ] SAMPLE [ ] STANDARD [ ] DUPLICATE

SAMPLE # = STD # =

| | | REPLICATE |
|---|---|---|
| TARE WEIGHT (g) | | |
| GROSS WEIGHT (g) | | |
| VOL. of SOLUTION (mL) | | |

[X] SAMPLE [ ] STANDARD [ ] DUPLICATE

SAMPLE # = S96T000258 STD # =

| | | REPLICATE |
|---|---|---|
| TARE WEIGHT (g) | 1.83454 | 1.79474 |
| GROSS WEIGHT (g) | 2.04772 | 2.00553 |
| VOL. of SOLUTION (mL) | .15017 | .15017 |

[ ] SAMPLE [ ] STANDARD [ ] DUPLICATE

SAMPLE # = STD # =

| | | REPLICATE |
|---|---|---|
| TARE WEIGHT (g) | | |
| GROSS WEIGHT (g) | | |
| VOL. of SOLUTION (mL) | | |

[ ] SAMPLE [ ] STANDARD [ ] DUPLICATE

SAMPLE # = STD # =

| | | REPLICATE |
|---|---|---|
| TARE WEIGHT (g) | | |
| GROSS WEIGHT (g) | | |
| VOL. of SOLUTION (mL) | | |

[ ] SAMPLE [ ] STANDARD [ ] DUPLICATE

SAMPLE # = STD # =

| | | REPLICATE |
|---|---|---|
| TARE WEIGHT (g) | | |
| GROSS WEIGHT (g) | | |
| VOL. of SOLUTION (mL) | | |

[ ] SAMPLE [ ] STANDARD [ ] DUPLICATE

SAMPLE # = STD # =

| | | REPLICATE |
|---|---|---|
| TARE WEIGHT (g) | | |
| GROSS WEIGHT (g) | | |
| VOL. of SOLUTION (mL) | | |

[ ] SAMPLE [ ] STANDARD [ ] DUPLICATE

SAMPLE # = STD # =

| | | REPLICATE |
|---|---|---|
| TARE WEIGHT (g) | | |
| GROSS WEIGHT (g) | | |
| VOL. of SOLUTION (mL) | | |

413

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER.

~~WHC-SD-WM-DP-103, REV. 1~~ LAD 4-1-96

WHC-SD-WM-DP-103, REV. 1

## SPECIFIC GRAVITY : LA-510-112 (C-3)

| | | STANDARD | STANDARD |
|---|---|---|---|
| Gross Weight (W2) | | 2.0625 | 2.0695 |
| Tare Weight (W1) | | 1.8547 | 1.8622 |
| Weight of Solution (W2-W1) | | 0.20785 | 0.20737 |
| Volume of Solution µL | | 150.1700 | 150.1700 |
| Specific Gravity | | 1.3841 | 1.3809 |
| Specific Gravity (Average) | | 1.3825 | |

| | |
|---|---|
| Type | STANDARD |
| Work List | 5958 |
| Test Code | SPG-01 |
| Matrix | LIQUID |
| Sample # | 133N16A |
| Instrument Code | |
| Analyst | K. HIGBEE |
| Date | 03/13/96 |
| Time | |

Gross Weight (W2) = Wt. of vial + cap + cotton + solution
Tare Weight (W1) = Wt. of vial + cap + cotton

Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL]

v RESULT v

Specific Gravity Average = 1.382

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/13/96 |
| Approved by: | RW Schroeder | Date: | 3/18/96 |

Form 510112L1 Rev. 1.1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

~~WHC-SD-WM-DP-103, REV. 1~~ LAD 4-1-96

WHC-SD-WM-DP-103, REV. 1

## SPECIFIC GRAVITY : LA-510-112 (C-3)

| | | SAMPLE | REPLICATE |
|---|---|---|---|
| Type | | | |
| SAMPLE | Gross Weight (W2) | 2.0477 | |
| Work List | Tare Weight (W1) | 1.8345 | |
| 5958 | Weight of Solution (W2-W1) | 0.21318 | 0 |
| Test Code | Volume of Solution µL | 150.1700 | |
| SPG-01 | Specific Gravity | 1.4196 | NA |
| Matrix | | | |
| LIQUID | | | |
| Sample # | | | |
| S95T000258 | | | |
| Instrument Code | Gross Weight (W2) = Wt. of vial + cap + cotton + solution | | |
| | Tare Weight (W1) = Wt. of vial + cap + cotton | | |
| Analyst | | | |
| K. HIGBEE | Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL] | | |
| Date | | | |
| 03/13/96 | v RESULT v | | |
| Time | Specific Gravity = | 1.420 | |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/13/96 |
| Approved by: | RW Schroeder | Date: | 3/18/96 |

Form 510112L1 Rev. 1.1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

~~WHC-SD-WM-DP-103, REV. 1~~ LAD 4-1-96

WHC-SD-WM-DP-103, REV. 1

## SPECIFIC GRAVITY : LA-510-112 (C-3)

| | | SAMPLE | REPLICATE |
|---|---|---|---|
| Type | | | |
| SAMPLE | Gross Weight (W2) | 2.0055 | |
| Work List | Tare Weight (W1) | 1.7947 | |
| 5958 | Weight of Solution (W2-W1) | 0.21079 | 0 |
| Test Code | Volume of Solution µL | 150.1700 | |
| SPG-01 | Specific Gravity | 1.4037 | NA |
| Matrix | | | |
| LIQUID | | | |
| Sample # | | | |
| S95T000258/DUP | | | |
| Instrument Code | Gross Weight (W2) = Wt. of vial + cap + cotton + solution | | |
| | Tare Weight (W1) = Wt. of vial + cap + cotton | | |
| Analyst | | | |
| K. HIGBEE | Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL] | | |
| Date | | | |
| 03/13/96 | v RESULT v | | |
| Time | Specific Gravity = | 1.404 | |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/13/96 |
| Approved by: | RW Schroeder | Date: | 3/18/96 |

Form 510112L1 Rev. 1.1

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# LABCORE Data Entry Template for Worklist# 475

**Analyst:** rawl **Instrument:** PH01 _____ **Method:** LA-212-102/C-5

**Worklist Comment:** pH, BY-106 drainable liquid, RWS 1/26/95

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | STD | | | | PH-01 | LIQUID | 9.94 | 10.02 | N/A | pH |
| 2 | SAMPLE | S94T000355 | 0 | | PH-01 | LIQUID | N/A | 13.17 | | pH |
| 3 | DUP | S94T000355 | 0 | | PH-01 | LIQUID | 13.17 | 13.82 | N/A | pH |
| 4 | SAMPLE | S94T000371 | 0 | | PH-01 | LIQUID | N/A | 13.32 | | pH |
| 5 | DUP | S94T000371 | 0 | | PH-01 | LIQUID | 13.32 | 14.02 | N/A | pH |
| 6 | SAMPLE | S95T000004 | 0 | | PH-01 | LIQUID | N/A | 13.30 | | pH |
| 7 | DUP | S95T000004 | 0 | | PH-01 | LIQUID | 13.30 | 13.76 | N/A | pH |
| 8 | SAMPLE | S94T000389 | 0 | | PH-01 | LIQUID | N/A | 9.94 | | pH |
| 9 | DUP | S94T000389 | 0 | | PH-01 | LIQUID | 9.94 | 9.96 | N/A | pH |
| 10 | STD | 18N16Q | | | PH-01 | LIQUID | 9.94 | 10.01 | N/A | pH |

## Final page for worklist # 475

R. WENDLAND
**Analyst Signature**

1-31-95
**Date**

2/1/95

*Data Entry Comments:* Worklist approved 2/1/95

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

## pH ANALYSIS

Id.#1 371
pH 14.02

355 RW
pH 13.17

Id.#1 389
pH 9.94
pH 9.96

pH 10.02

Id.#1 004

pH 13.76

pH 10.01

Id.#1 355

pH 13.82

Id.#1 004

pH 13.39

Id.#1 371

13.32

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# LABCORE Data Entry Template for Worklist# 474

**Analyst:** rdw **Instrument:** PH01 _____ **Method:** LA-211-102 B/1

**Worklist Comment:** OH, BY-106 drainable liquid, RWS 1/26/95

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | STD | 21N8B | | | OH-01 | LIQUID | 9.39E-1 | 9.01 E-1 | N/A | mol/L ~~ug/mL~~ |
| 2 | SAMPLE | S94T000355 | 0 | | OH-01 | LIQUID | N/A | 4.16E+4 | 5.00 E+3 | ug/mL |
| 3 | DUP | S94T000355 | 0 | | OH-01 | LIQUID | 4.16 E+4 | 4.05 E+4 | N/A | ug/mL |
| 4 | SAMPLE | S94T000371 | 0 | | OH-01 | LIQUID | N/A | 3.84E+4 | 5.00 E+3 | ug/mL |
| 5 | DUP | S94T000371 | 0 | | OH-01 | LIQUID | 3.84 E+4 | 3.89 E+4 | N/A | ug/mL |
| 6 | SAMPLE | S95T000004 | 0 | | OH-01 | LIQUID | N/A | 3.35 E+4 | 5.00 E+3 | ug/mL |
| 7 | DUP | S95T000004 | 0 | | OH-01 | LIQUID | 3.35 E+4 | 3.13 E+4 | N/A | ug/mL |

## Final page for worklist # 474

R. Wendland
**Analyst Signature**

1-26-95
**Date**

2/2/95

*Data Entry Comments:* worklist Reviewed R.W. Schroeder 2-2-95

*Units shown for QC (SPK) may not reflect the actual units.*

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

STD

21N8B

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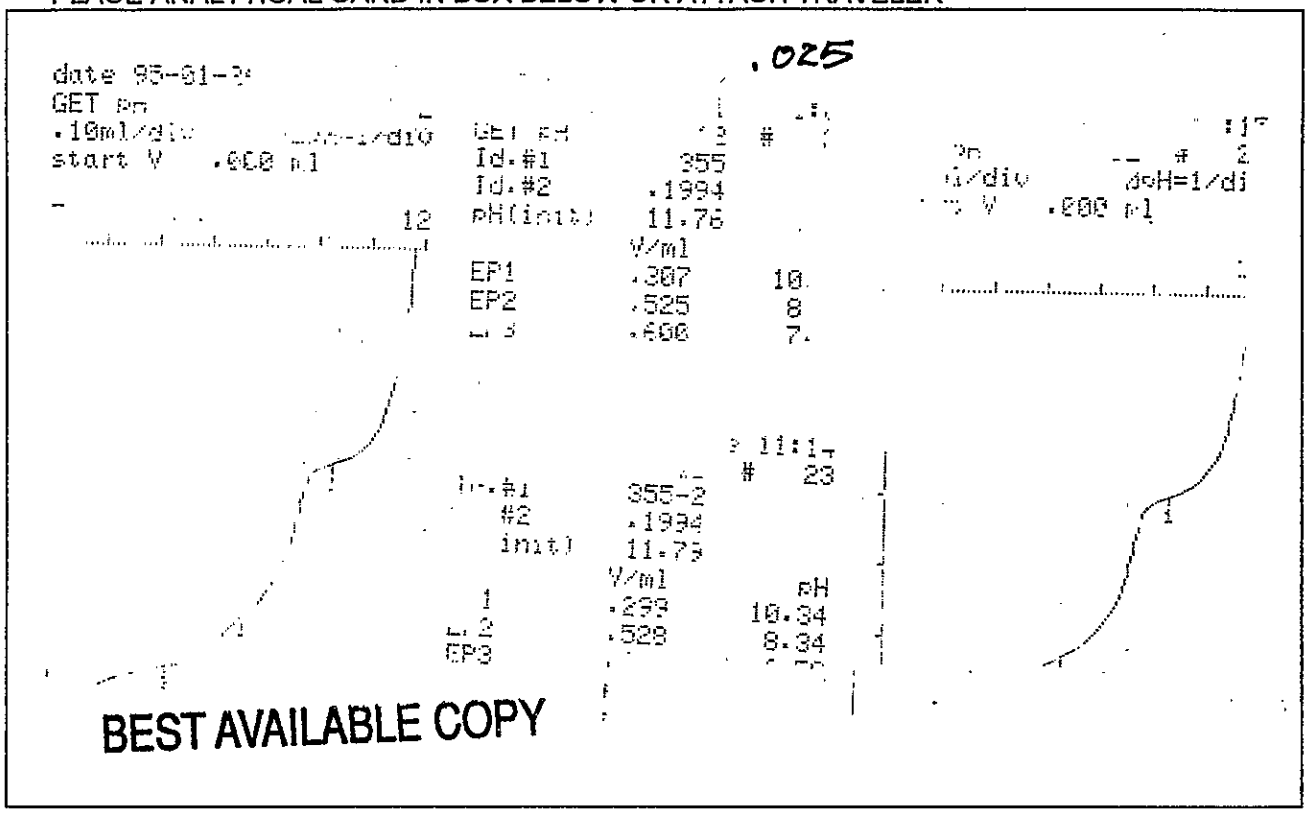
## OH (AUTO) : LA-211-102 (B-1)

| Type | Sample Size (mL) SS | STANDARD |
|---|---|---|
| STANDARD | Concentration of HNO3 (Molarity) | 0.1994 |
| Work List | HNO3 Titrant at OH end-point in mL | 0.226 |
| 474 | Dilution Factor DF | 1 |
| Test Code | Concentration of OH in Sample (Molarity) | 9.01E-01 |
| | OH in Sample in µg/mL (PPM) | 1.53E+04 |
| Matrix | | |
| LIQUID | | |
| Sample # | | |
| 21N8B | | |
| Instrument Code | | |
| PH01 | | |
| Analyst | OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor | |
| R. WENDLAND | | |
| Date | OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L)) | |
| 01/31/95 | | |
| Time | | STANDARD |
| 10:46 AM | Concentration of OH in Sample (Molarity) | 9.01E-01 |
| | OH in Sample in µg/mL (PPM) | 1.53E+04 |

| | | | |
|---|---|---|---|
| Data Entry by: | RC Wright | Date: | 02/01/95 |
| Approved by: | [illegible] | Date: | 2/2/95 |

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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## OH (AUTO) : LA-211-102 (B-1)

| | | SAMPLE |
|---|---|---|
| Type | Sample Size (mL) SS | 0.025 |
| SAMPLE | Concentration of HNO3 (Molarity) | 0.1994 |
| Work List | HNO3 Titrant at OH end-point in mL | 0.307 |
| 474 | Dilution Factor DF | 1 |
| Test Code | Concentration of OH in Sample (Molarity) | 2.45E+00 |
| | OH in Sample in µg/mL (PPM) | 4.16E+04 |
| Matrix | | |
| LIQUID | | |
| Sample # | Detection Limit = 125µg / SS * DF | |
| S94T000355 | | |
| Instrument Code | Detection Limit (µg/mL) | 5.00E+03 |
| PH01 | | |
| Analyst | OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor | |
| R. WENDLAND | | |
| Date | OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L)) | |
| 01/31/95 | | |
| Time | | SAMPLE |
| 11:06 AM | Concentration of OH in Sample (Molarity) | 2.45E+00 |
| | OH in Sample in µg/mL (PPM) | 4.16E+04 |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 02/01/95 |
| Approved by: | [signature] | Date: | 2/2/95 |

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

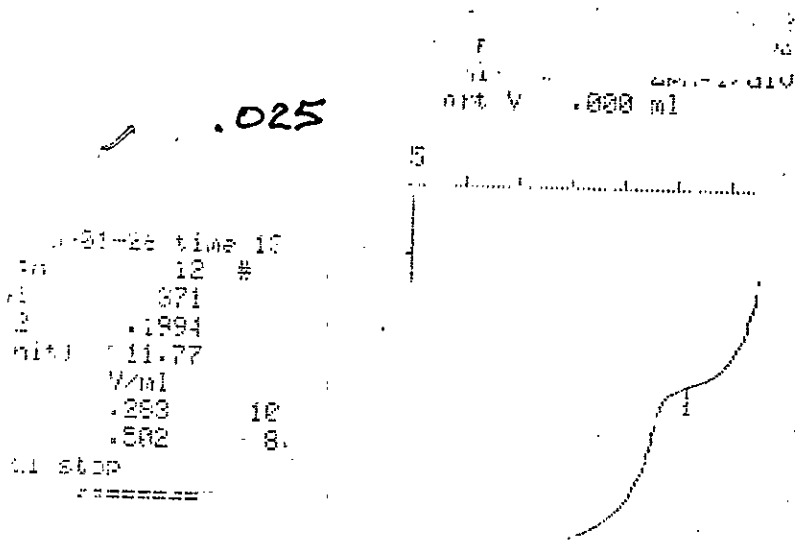
## OH (AUTO) : LA-211-102 (B-1)

| | | DUPLICATE |
|---|---|---|
| Type | Sample Size (mL) SS | 0.025 |
| DUPLICATE | Concentration of HNO3 (Molarity) | 0.1994 |
| Work List | HNO3 Titrant at OH end-point in mL | 0.299 |
| 474 | Dilution Factor DF | 1 |
| Test Code | Concentration of OH in Sample (Molarity) | 2.38E+00 |
| | OH in Sample in µg/mL (PPM) | 4.05E+04 |
| Matrix | | |
| LIQUID | | |
| Sample # | Detection Limit = 125µg / SS * DF | |
| S94T000355 | | |
| Instrument Code | Detection Limit (µg/mL) | 5.00E+03 |
| PH01 | | |
| Analyst | OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor | |
| R. WENDLAND | | |
| Date | OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L)) | |
| 01/31/95 | | |
| Time | | DUPLICATE |
| 11:06 AM | Concentration of OH in Sample (Molarity) | 2.38E+00 |
| | OH in Sample in µg/mL (PPM) | 4.05E+04 |

| | | | |
|---|---|---|---|
| Data Entry by: | [illegible] | Date: | 02/01/95 |
| Approved by: | [illegible] | Date: | 2/2/95 |

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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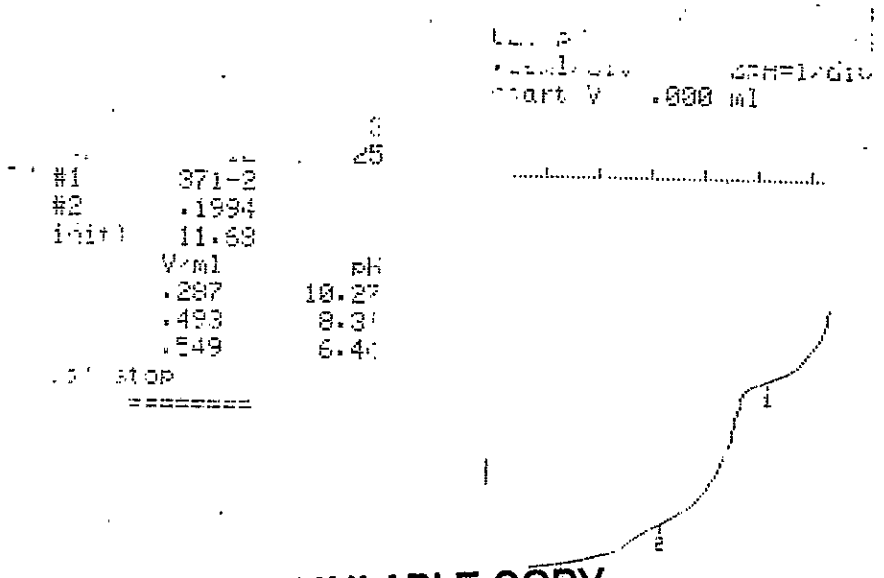
## OH (AUTO) : LA-211-102 (B-1)

| | | SAMPLE |
|---|---|---|
| Type | Sample Size (mL) SS | 0.025 |
| SAMPLE | Concentration of HNO3 (Molarity) | 0.1994 |
| Work List | HNO3 Titrant at OH end-point in mL | 0.283 |
| 474 | Dilution Factor DF | 1 |
| Test Code | Concentration of OH in Sample (Molarity) | 2.26E+00 |
| | OH in Sample in µg/mL (PPM) | 3.84E+04 |
| Matrix | | |
| LIQUID | | |
| Sample # | Detection Limit = 125µg / SS * DF | |
| S94T000371 | | |
| Instrument Code | Detection Limit (µg/mL) | 5.00E+03 |
| PH01 | | |
| Analyst | OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor | |
| R. WENDLAND | | |
| Date | OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L)) | |
| 01/31/95 | | |
| Time | | SAMPLE |
| 01:02 PM | Concentration of OH in Sample (Molarity) | 2.26E+00 |
| | OH in Sample in µg/mL (PPM) | 3.84E+04 |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 02/01/95 |
| Approved by: | [signature] | Date: | 2/2/95 |

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER




BEST AVAILABLE COPY

## OH (AUTO) : LA-211-102 (B-1)

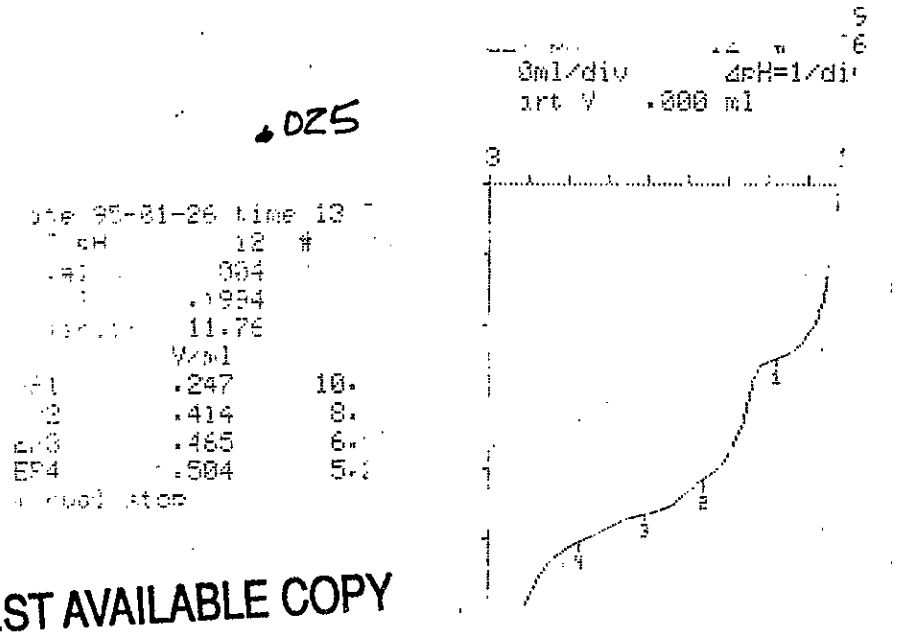
| | | DUPLICATE |
|---|---|---|
| Type | Sample Size (mL) SS | 0.025 |
| DUPLICATE | Concentration of HNO3 (Molarity) | 0.1994 |
| Work List | HNO3 Titrant at OH end-point in mL | 0.287 |
| 474 | Dilution Factor DF | 1 |
| Test Code | Concentration of OH in Sample (Molarity) | 2.29E+00 |
| | OH in Sample in µg/mL (PPM) | 3.89E+04 |
| Matrix | | |
| LIQUID | | |
| Sample # | Detection Limit = 125µg / SS * DF | |
| S94T000371 | | |
| Instrument Code | Detection Limit (µg/mL) | 5.00E+03 |
| PH01 | | |
| Analyst | OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor | |
| R. WENDLAND | | |
| Date | OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L)) | |
| 01/31/95 | | |
| Time | | DUPLICATE |
| 01:02 PM | Concentration of OH in Sample (Molarity) | 2.29E+00 |
| | OH in Sample in µg/mL (PPM) | 3.89E+04 |

| | | | |
|---|---|---|---|
| Data Entry by: | RE Wright | Date: | 02/01/95 |
| Approved by: | [illegible] | Date: | 2/2/95 |

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

.025

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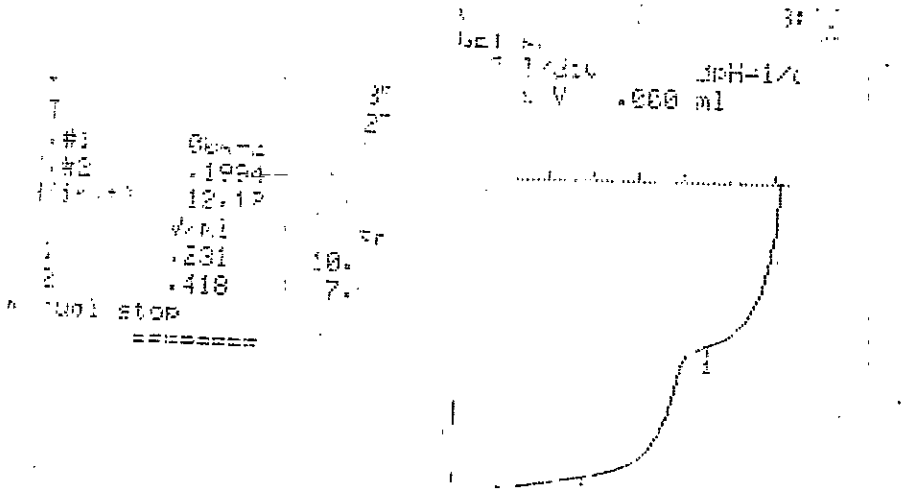
## OH (AUTO) : LA-211-102 (B-1)

| | | SAMPLE |
|---|---|---|
| Type | Sample Size (mL) SS | 0.025 |
| SAMPLE | Concentration of HNO3 (Molarity) | 0.1994 |
| Work List | HNO3 Titrant at OH end-point in mL | 0.247 |
| 474 | Dilution Factor DF | 1 |
| Test Code | Concentration of OH in Sample (Molarity) | 1.97E+00 |
| | OH in Sample in µg/mL (PPM) | 3.35E+04 |
| Matrix | | |
| LIQUID | | |
| Sample # | Detection Limit = 125µg / SS * DF | |
| S94T000004 | | |
| Instrument Code | Detection Limit (µg/mL) | 5.00E+03 |
| PH01 | | |
| Analyst | OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor | |
| R. WENDLAND | | |
| Date | OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L)) | |
| 01/31/95 | | |
| Time | | SAMPLE |
| 01:29 PM | Concentration of OH in Sample (Molarity) | 1.97E+00 |
| | OH in Sample in µg/mL (PPM) | 3.35E+04 |

| | | | |
|---|---|---|---|
| Data Entry by: | NE Wright | Date: | 02/01/95 |
| Approved by: | [illegible] | Date: | 2/2/95 |

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER




BEST AVAILABLE COPY

## OH (AUTO) : LA-211-102 (B-1)

| | | DUPLICATE |
|---|---|---|
| Type | Sample Size (mL) SS | 0.025 |
| DUPLICATE | Concentration of HNO3 (Molarity) | 0.1994 |
| Work List | HNO3 Titrant at OH end-point in mL | 0.231 |
| 474 | Dilution Factor DF | 1 |
| Test Code | Concentration of OH in Sample (Molarity) | 1.84E+00 |
| | OH in Sample in µg/mL (PPM) | 3.13E+04 |
| Matrix | | |
| LIQUID | | |
| Sample # | Detection Limit = 125µg / SS * DF | |
| S94T000004 | | |
| Instrument Code | Detection Limit (µg/mL) | 5.00E+03 |
| PH01 | | |
| Analyst | OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor | |
| R. WENDLAND | | |
| Date | OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L)) | |
| 01/31/95 | | |
| Time | | DUPLICATE |
| 01:29 PM | Concentration of OH in Sample (Molarity) | 1.84E+00 |
| | OH in Sample in µg/mL (PPM) | 3.13E+04 |

| | | | |
|---|---|---|---|
| Data Entry by: | RE Wright | Date: | 02/01/95 |
| Approved by: | Robert Boop | Date: | 2/2/95 |

Form 211102_1 Rev. 1.3

# LABCORE Data Entry Template for Worklist# 517

**Analyst:** rdW **Instrument:** PH01 _____ **Method:** LA-211-102 / B-1

**Worklist Comment:** BY-106 Field Blank -- OH analysis -- JWB

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | STD | 21N8B | | | OH-01 | LIQUID | 9.39E-1 | 9.01 E-1 | N/A | mol/L ~~ug/mL~~ |
| 2 | SAMPLE | S94T000389 | 0 | | OH-01 | LIQUID | N/A | <250 | 250 | ug/mL |
| 3 | STD | 21N8B | | | OH-01 | LIQUID | 9.39 E-1 | ~~9.01 E-1~~ 9.13 E-1 | N/A | mol/L ~~ug/mL~~ |

JWB 2/2/95

## Final page for worklist # 517

R. WENDLAND
**Analyst Signature**

1-31-95
**Date**

JWB

2/2/95

*Data Entry Comments:*

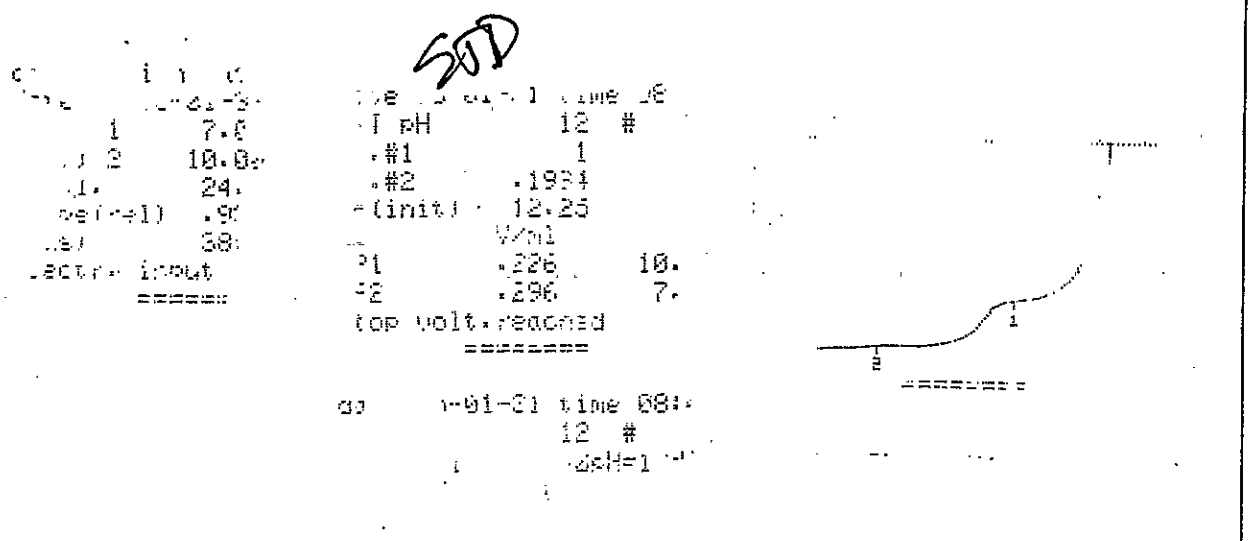
worklist review RW Schroeder 2/2/95

Duplicate not run due to insufficient sample

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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## OH (AUTO) : LA-211-102 (B-1)

| | | STD |
|---|---|---|
| Type | Sample Size (mL) SS | 0.050 |
| STD | Concentration of HNO3 (Molarity) | 0.1994 |
| Work List | HNO3 Titrant at OH end-point in mL | 0.226 |
| 517 | Dilution Factor DF | 1 |
| Test Code | Concentration of OH in Sample (Molarity) | 9.01E-01 |
| | OH in Sample in µg/mL (PPM) | 1.53E+04 |
| Matrix | | |
| LIQUID | | |
| Sample # | Detection Limit = 125µg / SS * DF | |
| 21N8B | | |
| Instrument Code | Detection Limit (µg/mL) | 2.50E+03 |
| PH01 | | |
| Analyst | OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor | |
| R. Wendland | | |
| Date | OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L)) | |
| 01/31/95 | | |
| Time | | STD |
| | Concentration of OH in Sample (Molarity) | 9.01E-01 |
| | OH in Sample in µg/mL (PPM) | 1.53E+04 |

| | | | |
|---|---|---|---|
| Data Entry by: | | Date: | 02/02/95 |
| Approved by: | | Date: | 2/2/95 |

Form 211102_1 Rev. 1.3

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

.500

```
95-01-31 time 1
pH          12  #
#1          389
#2        .1994
univ      8.76
          N/ml
          .011
volt.reached
========

95-01-31 time 1
pH          12  #
univ        ΔpH=1
.000 ml
```

BEST AVAILABLE COPY

## OH (AUTO) : LA-211-102 (B-1)

| | | SAMPLE |
|---|---|---|
| Type | Sample Size (mL) SS | 0.500 |
| SAMPLE | Concentration of HNO3 (Molarity) | 0.1994 |
| Work List | HNO3 Titrant at OH end-point in mL | 0.011 |
| 517 | Dilution Factor DF | 1 |
| Test Code | Concentration of OH in Sample (Molarity) | 4.39E-03 |
| | OH in Sample in µg/mL (PPM) | 7.46E+01 |
| Matrix | | |
| LIQUID | | |
| Sample # | Detection Limit = 125µg / SS * DF | |
| S94T000389 | | |
| Instrument Code | Detection Limit (µg/mL) | 2.50E+02 |
| PH01 | | |
| Analyst | OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor | |
| R. Wendland | | |
| Date | OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L)) | |
| 01/31/95 | | |
| Time | | SAMPLE |
| | Concentration of OH in Sample (Molarity) | 4.39E-03 |
| | OH in Sample in µg/mL (PPM) | <250 |

The Result is < Detection Limit

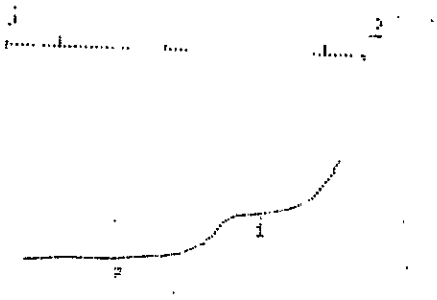
| | | | |
|---|---|---|---|
| Data Entry by: | Ron Wendland | Date: | 02/02/95 |
| Approved by: | Ron Wendland | Date: | 2/2/95 |

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

STD

95-01-31 time 14
.1594
11.70
V/ml
.229
.257



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## OH (AUTO) : LA-211-102 (B-1)

| | | STD |
|---|---|---|
| Type | Sample Size (mL) SS | 0.050 |
| STD | Concentration of HNO3 (Molarity) | 0.1994 |
| Work List | HNO3 Titrant at OH end-point in mL | 0.229 |
| 517 | Dilution Factor DF | 1 |
| Test Code | Concentration of OH in Sample (Molarity) | 9.13E-01 |
| | OH in Sample in µg/mL (PPM) | 1.55E+04 |
| Matrix | | |
| LIQUID | | |
| Sample # | Detection Limit = 125µg / SS * DF | |
| 21N8B | | |
| Instrument Code | Detection Limit (µg/mL) | 2.50E+03 |
| PH01 | | |
| Analyst | OH Molarity =((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor | |
| R. Wendland | | |
| Date | OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L)) | |
| 01/31/95 | | |
| Time | | STD |
| | Concentration of OH in Sample (Molarity) | 9.13E-01 |
| | OH in Sample in µg/mL (PPM) | 1.55E+04 |

| | | | |
|---|---|---|---|
| Data Entry by: | | Date: | 02/02/95 |
| Approved by: | | Date: | 2/2/95 |

Form 211102_1 Rev 1.3

# LABCORE Data Entry Template for Worklist# 247

**Analyst:** J+K **Instrument:** SP01 **Method:** LA-695-102 C-0 2.7.95 R 2.7.95

**Worklist Comment:** BY-106 CN samples

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK | | | | CN-01 | SOLID | 1 | ~~2.02~~ 0.46 2/8/95 | N/A | ug/g |
| 2 | STD | | | | CN-01 | SOLID | 931 | 913 | N/A | ug/g |
| 3 | SPK | S94T000305 | 0 | | CN-01 | SOLID | 100 | 92.2 | N/A | ug/g |
| 4 | SAMPLE | S94T000305 | 0 | | CN-01 | SOLID | N/A | 30.5 | ~~0.04~~ 1.98 4/11/95 | ug/g |
| 5 | DUP | S94T000305 | 0 | | CN-01 | SOLID | 30.5 | 29.9 | N/A | ug/g |
| 6 | SAMPLE | S94T000308 | 0 | | CN-01 | SOLID | N/A | 34.5 | ~~0.04~~ 2.39 4/11/95 | ug/g |
| 7 | DUP | S94T000308 | 0 | | CN-01 | SOLID | 34.5 | 36.8 | N/A | ug/g |
| 8 | STD | | | | CN-01 | SOLID | 931 | 927 | N/A | ug/g |

## Final page for worklist # 247

Analyst Signature 2.7.95 Date

S94T000305 → .50492 grams in 5ml EDTA/en Solution
S94T000308 → .41792 grams in 5ml EDTA/en Solution
Standard ID ~~1S1A8F~~ 4IA8F R2.6.95
Standard Dilution .100ml Std into 10ml EDTA/en Solution
Sample Size = ~~.050ml~~ R2.6.95 .250ml
Standard Amount = ~~.48ml~~ R2.6.95 .5ml
Spike amount = ~~.48ml~~ R2.6.95 ~~.5ml~~ R2.6.95 .250ml

| | |
|---|---|
| 1 | .018 |
| 2 | .669 |
| 3 | .421 |
| 4 | .121 |
| 5 | .119 |
| 6 | .114 |
| 7 | .121 |
| 8 | .680 |

*Data Entry Comments:*

worklist Approved Robert W. Schroeder 2/8/95

Data entered 2/7/95

*Units shown for QC (SPK) may not reflect the actual units.*

CYANIDE CALIBRATION CURVE with EDTA/en and Ammonium sulfamate

DATE: FEBRUARY 3, 1995
CALIBRATION STANDARD: 41N8F
INSTRUMENT I.D. WA93252
WORKING STANARD CONCENTRATION: 931uG/mL / 101D.F. = 9.22 uG/mL

| Sample I.D. | uG CN- | Net Abs. | Calc. uG | RPD |
|---|---|---|---|---|
| Blank | 0 | 0 | 0 | 0 |
| 0.050mL | 0.461 | 0.073 | 0.563 | -19.9 |
| 0.200mL | 1.844 | 0.251 | 1.782 | 3.42 |
| 0.400mL | 3.687 | 0.516 | 3.595 | 2.53 |
| 0.600mL | 5.531 | 0.779 | 5.4 | 2.4 |
| 0.800mL | 7.374 | 1.06 | 7.318 | 0.76 |
| 1.000mL | 9.218 | 1.371 | 9.446 | -2.44 |
| 1.200mL | 11.062 | 1.6 | 10.886 | 1.6 |

Regression Output:

| | | |
|---|---|---|
| Constant | | -0.00932 |
| Std Err of Y Est | | 0.019149 |
| R Squared | | 0.999125 |
| No. of Observations | | 8 |
| Degrees of Freedom | | 6 |
| X Coefficient(s) | 0.14612 | |
| Std Err of Coef. | 0.001765 | |

2-7-95

# LABCORE Data Entry Template for Worklist# 248

**Analyst:** [illegible] **Instrument:** SP01 _____ **Method:** LA-695-102/C-0

**Worklist Comment:** BY-106 CN samples

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK | | | | CN-01 | SOLID | 1 | 0.30 | N/A | ug/g |
| 2 | STD | | | | CN-01 | SOLID | 931 | 925 | N/A | ug/g JWB 2/7/95 me |
| 3 | SPK | S94T000309 | 0 | | CN-01 | SOLID | 100 | 92.2 | N/A | % ~~ug/g~~ JWB 2/9/95 |
| 4 | SAMPLE | S94T000309 | 0 | | CN-01 | SOLID | N/A | 44.5 | ~~0.03~~ 1.44 JWB 4/11/95 | ug/g |
| 5 | DUP | S94T000309 | 0 | | CN-01 | SOLID | 44.5 | 45.1 | N/A | ug/g |
| 6 | SAMPLE | S94T000310 | 0 | | CN-01 | SOLID | N/A | 55.2 | ~~0.05~~ 2.70 JWB 4/11/95 | ug/g |
| 7 | DUP | S94T000310 | 0 | | CN-01 | SOLID | 55.2 | 53.3 | N/A | ug/g |
| 8 | STD | | | | CN-01 | SOLID | 931 | 897 | N/A | ug/g JWB 2/7/95 me |

## Final page for worklist # 248

[illegible] 2-7-95

**Analyst Signature** **Date**

S94T000309 → .69401g
S94T000310 — .36987g
Standard ID ~~18N8F~~ R 2-7-95 4/N8F
Standard Dilution .100ml Standard into 10ml EDTA/en Solution
Sample Size = ~~.050ml~~ JWB 2/9/95 ~~.250ml~~ JWB 2/9/95 .500ml
Standard Amount = ~~.48ml~~ JWB 2/9/95 .500ml
Spike amount = .250ml of Std solution

1 .015
2 .675
3 .758
4 .457
5 .963
6 .304
7 .294
8 .655

*Data Entry Comments:*

Data entered 2/8/95 [illegible] worklist Reviewed Robert W. Schroeder 2/8/95

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

CYANIDE CALIBRATION CURVE with EDTA/en and Ammonium sulfamate

DATE: FEBRUARY 3, 1995
CALIBRATION STANDARD: 41N8F
INSTRUMENT I.D. WA93252
WORKING STANARD CONCENTRATION: 931uG/mL / 101D.F. = 9.22 uG/mL

| Sample I.D. | uG CN- | Net Abs. | Calc. uG | RPD |
|---|---|---|---|---|
| Blank | 0 | 0 | 0 | 0 |
| 0.050mL | 0.461 | 0.073 | 0.563 | -19.9 |
| 0.200mL | 1.844 | 0.251 | 1.782 | 3.42 |
| 0.400mL | 3.687 | 0.516 | 3.595 | 2.53 |
| 0.600mL | 5.531 | 0.779 | 5.4 | 2.4 |
| 0.800mL | 7.374 | 1.06 | 7.318 | 0.76 |
| 1.000mL | 9.218 | 1.371 | 9.446 | -2.44 |
| 1.200mL | 11.062 | 1.6 | 10.886 | 1.6 |

Regression Output:

| | | |
|---|---|---|
| Constant | | -0.00932 |
| Std Err of Y Est | | 0.019149 |
| R Squared | | 0.999125 |
| No. of Observations | | 8 |
| Degrees of Freedom | | 6 |
| X Coefficient(s) | 0.14612 | |
| Std Err of Coef. | 0.001765 | |

L. Knight 2.7.95

# LABCORE Data Entry Template for Worklist# 265

**Analyst:** JK **Instrument:** SP01 **Method:** LA-695-102/C-0

**Worklist Comment:** BY-106 CN samples

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK | | | | CN-01 | SOLID | 1 | ~~0.28~~ 0.23 RWS 2/7/95 | N/A | ug/g |
| 2 | STD | | | | CN-01 | SOLID | 931 | 978 | N/A | ug/g |
| 3 | SPK | S94T000311 | 0 | | CN-01 | SOLID | ~~2.30~~ 100 JWB 2/7/95 | ~~2.43~~ 106 JWB 2/7/95 | N/A | ug/g |
| 4 | SAMPLE | S94T000311 | 0 | | CN-01 | SOLID | N/A | ~~24.3~~ 23.2 JWB 2/6/95 | ~~0.03D~~ ~~0.03~~ 1.49 RWS 2/7/95 | ug/g |
| 5 | DUP | S94T000311 | 0 | | CN-01 | SOLID | 23.2 | 24.3 | N/A | ug/g |
| 6 | SAMPLE | S94T000343 | 0 | | CN-01 | SOLID | N/A | 11.7 | ~~0.030~~ 1.69 JWB 2/11/95 | ug/g |
| 7 | DUP | S94T000343 | 0 | | CN-01 | SOLID | 11.7 | 10.6 | N/A | ug/g |
| 8 | STD | | | | CN-01 | SOLID | 931 | 870 | N/A | ug/g |

## Final page for worklist # 265

**Analyst Signature** **Date** 2·6·95

S94T000343 = .5905 grams in 5ml EDTA/En
S94T000311 = .6708 grams in 5ml EDTA/En
Standard = .250-25-.500 ~~(HBN8F)~~ 41N8F
Spike = .250-25-.250 ~~(HBN8F)~~ RWS 2/7/95 41N8F
Sample size = ~~.250~~ JK 2·6·95 / ml RWS 2/7/95

ABS
1) .016
2) .714
3) .809
4) .463 JK 2·6·95
5) ~~.207~~ .483
6) ~~.190~~ JK 2·6·95 .209
7) .190
8) .636

JWBell - data entered - 2/7/95

*Data Entry Comments:*

Worklist Reviewed by Robert W. Shrader 2/8/95

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

CYANIDE CALIBRATION CURVE with EDTA/en and Ammonium sulfamate

DATE: FEBRUARY 3, 1995
CALIBRATION STANDARD: 41N8F
INSTRUMENT I.D. WA93252
WORKING STANARD CONCENTRATION: 931uG/mL / 101D.F. = 9.22 uG/mL

| Sample I.D. | uG CN- | Net Abs. | Calc. uG | RPD |
|---|---|---|---|---|
| Blank | 0 | 0 | 0 | 0 |
| 0.050mL | 0.461 | 0.073 | 0.563 | -19.9 |
| 0.200mL | 1.844 | 0.251 | 1.782 | 3.42 |
| 0.400mL | 3.687 | 0.516 | 3.595 | 2.53 |
| 0.600mL | 5.531 | 0.779 | 5.4 | 2.4 |
| 0.800mL | 7.374 | 1.06 | 7.318 | 0.76 |
| 1.000mL | 9.218 | 1.371 | 9.446 | -2.44 |
| 1.200mL | 11.062 | 1.6 | 10.886 | 1.6 |

Regression Output:

| | | |
|---|---|---|
| Constant | | -0.00932 |
| Std Err of Y Est | | 0.019149 |
| R Squared | | 0.999125 |
| No. of Observations | | 8 |
| Degrees of Freedom | | 6 |
| X Coefficient(s) | 0.14612 | |
| Std Err of Coef. | 0.001765 | |

[illegible] esq #2 2.6.95

# LABCORE Data Entry Template for Worklist# 266

**Analyst:** JTK **Instrument:** SP01 **Method:** LA-695-102 / C-O

**Worklist Comment:** BY-106 CN samples

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK | | | | CN-01 | SOLID | 1 | 1.9 | N/A | ug/g |
| 2 | STD | | | | CN-01 | SOLID | 931 | 903 | N/A | ug/g ~~me~~ |
| 3 | SPK | S94T000326 | 0 | | CN-01 | SOLID | 100 | 95.2 | N/A | % ~~ug/g~~ |
| 4 | SAMPLE | S94T000326 | 0 | | CN-01 | SOLID | N/A | 30.7 | 2.29 | ug/g |
| 5 | DUP | S94T000326 | 0 | | CN-01 | SOLID | 30.7 | 31.2 | N/A | ug/g |
| 6 | SAMPLE | S94T000342 | 0 | | CN-01 | SOLID | N/A | 22.1 | 1.73 | ug/g |
| 7 | DUP | S94T000342 | 0 | | CN-01 | SOLID | 22.1 | 18.7 | N/A | ug/g |
| 8 | STD | | | | CN-01 | SOLID | 931 | 887 | N/A | ug/g ~~me~~ |

## Final page for worklist # 266

Analyst Signature Date 2.8.95

S94T000342 = .5788 grams in 5ml EDTA/en .089
S94T000326 = .4362 grams in 5ml EDTA/en .733
Std 41N8F = .100ml - 10ml - .500ml .586
Sample aloquat = .500ml .275
Spike 41N8F = .100ml - 10ml - .250ml .279
.266
.237
.721

*Data Entry Comments:* data entered 2/9/95 Data reviewed RW Schroeder 2/13/95

*Units shown for QC (SPK) may not reflect the actual units.* *Page:* 1

CYANIDE CALIBRATION CURVE with EDTA/en and Ammonium sulfamate

DATE: FEBRUARY 3, 1995
CALIBRATION STANDARD: 41N8F
INSTRUMENT I.D. WA93252
WORKING STANARD CONCENTRATION: 931uG/mL / 101D.F. = 9.22 uG/mL

| Sample I.D. | uG CN- | Net Abs. | Calc. uG | RPD |
|---|---|---|---|---|
| Blank | 0 | 0 | 0 | 0 |
| 0.050mL | 0.461 | 0.073 | 0.563 | -19.9 |
| 0.200mL | 1.844 | 0.251 | 1.782 | 3.42 |
| 0.400mL | 3.687 | 0.516 | 3.595 | 2.53 |
| 0.600mL | 5.531 | 0.779 | 5.4 | 2.4 |
| 0.800mL | 7.374 | 1.06 | 7.318 | 0.76 |
| 1.000mL | 9.218 | 1.371 | 9.446 | -2.44 |
| 1.200mL | 11.062 | 1.6 | 10.886 | 1.6 |

Regression Output:

| | | |
|---|---|---|
| Constant | | -0.00932 |
| Std Err of Y Est | | 0.019149 |
| R Squared | | 0.999125 |
| No. of Observations | | 8 |
| Degrees of Freedom | | 6 |
| X Coefficient(s) | 0.14612 | |
| Std Err of Coef. | 0.001765 | |

2.8.95

worklistrpt Version 2.0 02/21/95
03/06/95 13:38



# LABCORE Data Entry Template for Worklist# 566

**Analyst:** JTK **Instrument:** SP01 **Book #** 41N8F

**Method:** LA-695-102 Rev/Mod C-0

**Worklist Comment:** CN-, BY-106, rws 2/13/95

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | CN-01 | SOLID | 1 | 4.30e-1 | N/A | ug/g |
| | | 2 | STD | | | | CN-01 | SOLID | 9.31e2 | 8.85e2 | N/A | ~~ug/g~~ ug/ml JWB 3/9/95 |
| 94000019 | BY-106 | 3 | SAMPLE | S94T000346 | 0 | | CN-01 | SOLID | N/A | 2.81e1 | 1.95e0 | ug/g |
| 94000019 | BY-106 | 4 | DUP | S94T000346 | 0 | | CN-01 | SOLID | 2.81e1 | 2.97e1 | N/A | ug/g |
| 94000019 | BY-106 | 5 | SPK | S94T000346 | 0 | | CN-01 | SOLID | 100 | 85.5 | N/A | ~~ug/g~~ % JWB 3/9/95 |
| 94000019 | BY-106 | 6 | SAMPLE | S94T000373 | 0 | | CN-01 | SOLID | N/A | 2.42e1 | 1.72e0 | ug/g |
| 94000019 | BY-106 | 7 | DUP | S94T000373 | 0 | | CN-01 | SOLID | 2.42e1 | 2.40e1 | N/A | ug/g |
| | | 8 | STD | | | | CN-01 | SOLID | 9.31e2 | 8.96e2 | N/A | ~~ug/g~~ ug/ml JWB 3/9/95 |

## Final page for worklist # 566

JTK 2.22.95
**Analyst Signature** **Date**

**Analyst Signature** **Date**

*Data Entry Comments:* Data entered JTK 3/9/95
Worklist reviewed RWSchroeder 3/9/95

*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.*

CN: LA-695-102 (C-0)

| WORKLIST # | ANALYST SIGNATURE | ANALYSIS DATE | ANALYSIS TIME | INSTRUMENT CODE |
|---|---|---|---|---|
| R2.22.95 565 566 | [signature] | 2.22.95 | 15:00 | WA 93252 |

[ ] EDTA or [ ] SAMPLE [ ] STANDARD
[ ] WATER DISSOLUTION/DILUTION [ ] DUPLICATE [ ] PREP BLANK
[ ] SPIKE [X] REAGENT BLANK

SAMPLE # = STD # =
MATRIX: [ ] SOLID [X] LIQUID
SAMPLE VOL. (mL)/WT. (g)
DISSOLUTION/DILUTION VOL. (mL)
SAMPLE ALIQUOT VOL. ANALYZED (mL) 5 ml
STD/SPIKE VOL. (mL)
DILUTION VOL. OF SPIKE/STD
SPIKE/STD ALIQUOT VOL. ANALYZED
ABSORBANCE .023

[ ] EDTA or [X] SAMPLE [ ] STANDARD
[ ] WATER DISSOLUTION/DILUTION [ ] DUPLICATE [ ] PREP BLANK
[X] SPIKE [ ] REAGENT BLANK

SAMPLE # = 594T000346 STD # =
MATRIX: [X] SOLID [ ] LIQUID
SAMPLE VOL. (mL)/WT. (g) 1.0279 grams
DISSOLUTION/DILUTION VOL. (mL) 10 ml
SAMPLE ALIQUOT VOL. ANALYZED (mL) .500 ml
STD/SPIKE VOL. (mL) .100 ml
DILUTION VOL. OF SPIKE/STD 10 ml
SPIKE/STD ALIQUOT VOL. ANALYZED .250 ml
ABSORBANCE .513

[ ] EDTA or [ ] SAMPLE [X] STANDARD
[ ] WATER DISSOLUTION/DILUTION [ ] DUPLICATE [ ] PREP BLANK
[ ] SPIKE [ ] REAGENT BLANK

SAMPLE # = R2.22.95 STD # = 4IN8F
MATRIX: [X] SOLID [X] LIQUID
SAMPLE VOL. (mL)/WT. (g) .100 ml
DISSOLUTION/DILUTION VOL. (mL) 10 ml
SAMPLE ALIQUOT VOL. ANALYZED (mL) .500 ml
STD/SPIKE VOL. (mL)
DILUTION VOL. OF SPIKE/STD
SPIKE/STD ALIQUOT VOL. ANALYZED
ABSORBANCE .654

[X] EDTA or [ ] SAMPLE [ ] STANDARD
[ ] WATER DISSOLUTION/DILUTION [ ] DUPLICATE [ ] PREP BLANK
[ ] SPIKE [ ] REAGENT BLANK

SAMPLE # = 594T000373 STD # =
MATRIX: [X] SOLID [ ] LIQUID
SAMPLE VOL. (mL)/WT. (g) 1.1613 g
DISSOLUTION/DILUTION VOL. (mL) 10 ml
SAMPLE ALIQUOT VOL. ANALYZED (mL) .500 ml
STD/SPIKE VOL. (mL)
DILUTION VOL. OF SPIKE/STD
SPIKE/STD ALIQUOT VOL. ANALYZED
ABSORBANCE .219

[X] EDTA or [ ] SAMPLE [ ] STANDARD
[ ] WATER DISSOLUTION/DILUTION [ ] DUPLICATE [ ] PREP BLANK
[ ] SPIKE [ ] REAGENT BLANK

SAMPLE # = 594T000346 STD # =
MATRIX: [X] SOLID [ ] LIQUID
SAMPLE VOL. (mL)/WT. (g) 1.0279 grams
DISSOLUTION/DILUTION VOL. (mL) 10 ml
SAMPLE ALIQUOT VOL. ANALYZED (mL) .500 ml
STD/SPIKE VOL. (mL)
DILUTION VOL. OF SPIKE/STD
SPIKE/STD ALIQUOT VOL. ANALYZED
ABSORBANCE .225

[X] EDTA or [X] SAMPLE [X] STANDARD
[X] WATER DISSOLUTION/DILUTION [X] DUPLICATE [ ] PREP BLANK
[ ] SPIKE [ ] REAGENT BLANK

SAMPLE # = 594T000373 STD # =
MATRIX: [X] SOLID [ ] LIQUID
SAMPLE VOL. (mL)/WT. (g) 1.1613 g
DISSOLUTION/DILUTION VOL. (mL) 10 ml
SAMPLE ALIQUOT VOL. ANALYZED (mL) .500 ml
STD/SPIKE VOL. (mL)
DILUTION VOL. OF SPIKE/STD
SPIKE/STD ALIQUOT VOL. ANALYZED
ABSORBANCE .217

[X] EDTA or [X] SAMPLE [X] STANDARD
[X] WATER DISSOLUTION/DILUTION [X] DUPLICATE [ ] PREP BLANK
[ ] SPIKE [ ] REAGENT BLANK

SAMPLE # = 594T000346 STD # =
MATRIX: [X] SOLID [ ] LIQUID
SAMPLE VOL. (mL)/WT. (g) 1.0279 g
DISSOLUTION/DILUTION VOL. (mL) 10 ml
SAMPLE ALIQUOT VOL. ANALYZED (mL) .500 ml
STD/SPIKE VOL. (mL)
DILUTION VOL. OF SPIKE/STD
SPIKE/STD ALIQUOT VOL. ANALYZED
ABSORBANCE .237

[ ] EDTA or [ ] SAMPLE [X] STANDARD
[ ] WATER DISSOLUTION/DILUTION [ ] DUPLICATE [ ] PREP BLANK
[ ] SPIKE [ ] REAGENT BLANK

SAMPLE # = STD # = 4IN8F
MATRIX: [ ] SOLID [X] LIQUID
SAMPLE VOL. (mL)/WT (g) .100 ml
DISSOLUTION/DILUTION VOL. (mL) 10 ml
SAMPLE ALIQUOT VOL. ANALYZED (mL) .500 ml
STD/SPIKE VOL. (mL)
DILUTION VOL. OF SPIKE/STD
SPIKE/STD ALIQUOT VOL. ANALYZED
ABSORBANCE .662

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

## CN- DETERMINATION : LA-695-102 (C-0) SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| Standard | Standard Aliquot in mL | | 0.100 |
| Work List | Diluent + Standard Volume | | 10.10 |
| 566 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 931 |
| CN | Absorbance of Blank | | 0.023 |
| Matrix | Absorbance of Standard | | 0.654 |
| Liquid | Y-Intercept Value | | -0.009320 |
| Sample # | Slope Value | | 0.146120 |
| 41N8-F | µg of CN in Standard | | 4.382 |
| Instrument Code | | | |
| WA93252 | | | |
| Analyst | | | |
| JT Knight Jr. | | | |
| Date | µg of CN-/mL in Standard | | 885 |
| 02/24/95 | | | |
| Time | Standard % Recovery | | 95.1% |
| 03:00 PM | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/03/95 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | RW Schroeder | Date: | 03/09/95 |
| Approved by: | [illegible] | Date: | 3/9/95 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (C-0) BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| Blank | | |
| Work List | | |
| 566 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN | Absorbance of Blank (Reagent, Prep) | 0.023 |
| Matrix | Digest Dilution Factor | 9.728 |
| Liquid | Y-Intercept Value | -0.009320 |
| Sample # | Slope Value | 0.146120 |
| BLK | µg of Cyanide | 0.221 |
| Instrument Code | µg CN- /mL | 4.30E-01 |
| WA93252 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| JT Knight | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 02/22/95 | Detection Limit = 0.1µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Time | v RESULTS v | |
| 03:00 PM | Cyanide Concentration (µg/mL) | 4.30E-01 |
| Calibration Date | | |
| 02/03/95 | | |

| Detection Limit µg CN- / mL |
|---|
| 1.95E-01 |

| | | | |
|---|---|---|---|
| Data Entry by: | RW Schroeder | Date: | 03/09/95 |
| Approved by: | [illegible] | Date: | 3/9/95 |

Form 695102C1 Rev. 1.4

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (C-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| Liquid | Sample Aliquot in mL | 0.50000 |
| Work List | Sample Dilution Volume in mL (Sample+H2O Vol. | 0.50000 |
| 566 | Sample Aliquot Taken from dilution in mL (SS) | 0.50000 |
| Test Code | Absorbance of Blank | 0.023 |
| CN | Absorbance of Sample | 0.225 |
| Matrix | Digest Dilution Factor | 9.728 |
| Liquid | Y-Intercept Value | -0.009320 |
| Sample # | Slope Value | 0.146120 |
| S94T000346 | µg of Cyanide | 1.446 |
| Instrument Code | µg CN- /mL | 2.81E+01 |
| WA93252 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT Knight | µg/mL of Cyanide = µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor | |
| Date | Dilution Factor = Flask Volume (mL) / Sample Aliquot (mL) | |
| 02/22/95 | Detection Limit = 0.1µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor | |
| Time | v RESULTS v | |
| 03:00 PM | Cyanide Concentration (µg/mL) | 2.81E+01 |
| Calibration Date | | |
| 02/03/95 | | |

| Detection Limit µg CN- / mL |
|---|
| 1.95E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Kim Schroeder | Date: | 03/09/95 |
| Approved by: | [illegible] | Date: | 3/7/95 |

Form 695102C1 Rev. 1.4

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (C-0) BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| Liquid | Sample Aliquot in mL | 0.50000 |
| Work List | Sample Dilution Volume in mL (Sample+H2O Vol. | 0.50000 |
| 566 | Sample Aliquot Taken from dilution in mL (SS) | 0.50000 |
| Test Code | Absorbance of Blank | 0.023 |
| Duplicate | Absorbance of Sample | 0.237 |
| Matrix | Digest Dilution Factor | 9.728 |
| Liquid | Y-Intercept Value | -0.009320 |
| Sample # | Slope Value | 0.146120 |
| S94T000346 | µg of Cyanide | 1.528 |
| Instrument Code | µg CN- /mL | 2.97E+01 |
| WA93252 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT Knight | µg/mL of Cyanide = µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor | |
| Date | Dilution Factor = Flask Volume (mL) / Sample Aliquot (mL) | |
| 02/22/95 | Detection Limit = 0.1µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor | |
| Time | v RESULTS v | |
| 03:00 PM | Cyanide Concentration (µg/mL) | 2.97E+01 |
| Calibration Date | | |
| 02/03/95 | | |

| Detection Limit µg CN- / mL |
|---|
| 1.95E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | KW Schroeder | Date: | 03/09/95 |
| Approved by: | [illegible] | Date: | 3/9/95 |

Form 695102C1 Rev. 1.4

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

## CN- DETERMINATION : LA-695-102 (C-0) SPIKE, STANDARD

| Type | | SPIKE | NA |
|---|---|---|---|
| Spike | Spike Aliquot in mL | 0.100 | |
| Work List | Diluent + Spike Standard Volume | 10.10 | |
| 566 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 931 | |
| CN | Absorbance of Blank | 0.023 | |
| Matrix | Absorbance of Sample+Spike | 0.513 | |
| Liquid | Y-Intercept Value | -0.009320 | |
| Sample # | Slope Value | 0.146120 | |
| S94T000346 | µg of CN- in Sample+Spike | 3.417 | |
| Instrument Code | | | |
| WA93252 | | | |
| Analyst | Known µg of CN- in Original Sample | 1.4460 | |
| JT Knight | | | |
| Date | µg of CN- in Spike | 2.3045 | |
| 02/22/95 | | | |
| Time | Spike % Recovery | 85.5% | |
| 03:00 PM | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/03/95 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | RW Schroeder | Date: | 03/09/95 |
| Approved by: | [illegible] | Date: | 3/7/95 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (C-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| Liquid | Sample Aliquot in mL | 0.50000 |
| Work List | Sample Dilution Volume in mL (Sample+H2O Vol. | 0.50000 |
| 566 | Sample Aliquot Taken from dilution in mL (SS) | 0.50000 |
| Test Code | Absorbance of Blank | 0.023 |
| CN | Absorbance of Sample | 0.219 |
| Matrix | Digest Dilution Factor | 8.611 |
| Liquid | Y-Intercept Value | -0.009320 |
| Sample # | Slope Value | 0.146120 |
| S94T000373 | µg of Cyanide | 1.405 |
| Instrument Code | µg CN- /mL | 2.42E+01 |
| WA93252 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT Knight | µg/mL of Cyanide = µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor | |
| Date | Dilution Factor = Flask Volume (mL) / Sample Aliquot (mL) | |
| 02/22/95 | Detection Limit = 0.1µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor | |
| Time | v RESULTS v | |
| 03:00 PM | Cyanide Concentration (µg/mL) | 2.42E+01 |
| Calibration Date | | |
| 02/03/95 | | |

| Detection Limit µg CN- / mL |
|---|
| 1.72E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Ruy Schroeder | Date: | 03/09/95 |
| Approved by: | [illegible] | Date: | 3/9/95 |

Form 695102C1 Rev. 1/4

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (C-0) BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| Liquid | Sample Aliquot in mL | 0.50000 |
| Work List | Sample Dilution Volume in mL (Sample+H2O Vol. | 0.50000 |
| 566 | Sample Aliquot Taken from dilution in mL (SS) | 0.50000 |
| Test Code | Absorbance of Blank | 0.023 |
| Duplicate | Absorbance of Sample | 0.217 |
| Matrix | Digest Dilution Factor | 8.611 |
| Liquid | Y-Intercept Value | -0.009320 |
| Sample # | Slope Value | 0.146120 |
| S94T000373 | µg of Cyanide | 1.391 |
| Instrument Code | µg CN- /mL | 2.40E+01 |
| WA93252 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT Knight | µg/mL of Cyanide = µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor | |
| Date | Dilution Factor = Flask Volume (mL) / Sample Aliquot (mL) | |
| 02/22/95 | Detection Limit = 0.1µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor | |
| Time | v RESULTS v | |
| 03:00 PM | Cyanide Concentration (µg/mL) | 2.40E+01 |
| Calibration Date | | |
| 02/03/95 | | |

| Detection Limit µg CN- / mL |
|---|
| 1.72E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RW Schroeder | Date: | 03/09/95 |
| Approved by: | [illegible] | Date: | 3/9/95 |

Form 695102C1 Rev. 1.4

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

## CN- DETERMINATION : LA-695-102 (C-0) SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| Standard | Standard Aliquot in mL | | 0.100 |
| Work List | Diluent + Standard Volume | | 10.10 |
| 566 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 931 |
| CCV | Absorbance of Blank | | 0.023 |
| Matrix | Absorbance of Standard | | 0.662 |
| Liquid | Y-Intercept Value | | -0.009320 |
| Sample # | Slope Value | | 0.146120 |
| 41N8-F | µg of CN in Standard | | 4.437 |
| Instrument Code | | | |
| WA93252 | | | |
| Analyst | | | |
| JT Knight Jr. | | | |
| Date | µg of CN-/mL in Standard | | 896 |
| 02/22/95 | | | |
| Time | Standard % Recovery | | 96.3% |
| 03:00 PM | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/03/95 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | Ron Schroeder | Date: | 03/09/95 |
| Approved by: | [illegible] | Date: | 3/9/95 |

Form X2 Rev. 1.0

CYANIDE CALIBRATION CURVE with EDTA/en and Ammonium sulfamate

DATE: FEBRUARY 3, 1995
CALIBRATION STANDARD: 41N8F
INSTRUMENT I.D. WA93252
WORKING STANARD CONCENTRATION: 931uG/mL / 101D.F. = 9.22 uG/mL

| Sample I.D. | uG CN- | Net Abs. | Calc. uG | RPD |
|---|---|---|---|---|
| Blank | 0 | 0 | 0 | 0 |
| 0.050mL | 0.461 | 0.073 | 0.563 | -19.9 |
| 0.200mL | 1.844 | 0.251 | 1.782 | 3.42 |
| 0.400mL | 3.687 | 0.516 | 3.595 | 2.53 |
| 0.600mL | 5.531 | 0.779 | 5.4 | 2.4 |
| 0.800mL | 7.374 | 1.06 | 7.318 | 0.76 |
| 1.000mL | 9.218 | 1.371 | 9.446 | -2.44 |
| 1.200mL | 11.062 | 1.6 | 10.886 | 1.6 |

Regression Output:

| | | |
|---|---|---|
| Constant | | -0.00932 |
| Std Err.of Y Est | | 0.019149 |
| R Squared | | 0.999125 |
| No. of Observations | | 8 |
| Degrees of Freedom | | 6 |
| X Coefficient(s) | 0.14612 | |
| Std Err of Coef. | 0.001765 | |

Robert W. Schroeder 3/9/95

# LABCORE Data Entry Template for Worklist# 567

**Analyst:** JTK **Instrument:** SP01 **Method:** LA-695-102 / C-0

**Worklist Comment:** CN-, BY-106, rws 2/13/95

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK | | | | CN-01 | SOLID | 1 | ~~<0.9~~ 0.41 RWS 2/16/95 | N/A | ug/g ml GWB 2/16/95 |
| 2 | STD | | | | CN-01 | SOLID | 931 | 867 | N/A | ug/g |
| 3 | SAMPLE | S94T000037~~3~~2 RWS 3/23/95 | 0 | | CN-01 | SOLID | N/A | 13.8 | 0.9 | ug/g |
| 4 | DUP | S94T000037~~3~~2 RWS 3/23/95 | 0 | | CN-01 | SOLID | 13.8 | ~~13.3~~ 13.0 RB 6/10/96 | N/A | ug/g |
| 5 | SPK | S94T000037~~3~~2 RWS 3/25/95 | 0 | | CN-01 | SOLID | 100 | 85.2 | N/A | % ~~ug/g~~ GWB 2/16/95 |
| 6 | SAMPLE | S94T000381 | 0 | | CN-01 | SOLID | N/A | 3.0 | 1.3 | ug/g |
| 7 | DUP | S94T000381 | 0 | | CN-01 | SOLID | 3.0 | 3.7 | N/A | ug/g |
| 8 | STD | | | | CN-01 | SOLID | 931 | 861 | N/A | ug/~~g~~ ml GWB 2/16/95 |

## Final page for worklist # 567

**Analyst Signature** 2/15/95 **Date**

S94T000037~~3~~2 RWS 3/23/95 = 1.1613 g in 5ml EDTA/ten then Filtered
S94T000381 = .7425 g in 5ml EDTA/ten then Filtered
Standard Dilution = .100ml of 4N8F into 10ml of .125M NaOH
Sample Sig = .500ml
Spike = .250ml of Std Dilution
Standard = .500ml of Std Dilution
JK 2/15/95

.046
.665
.271
.262
.548
.069
.077
.659

NOTE: RPD high for S94T000381 sample/dup because detectable CN- was less than 5 X D.L.

*Data Entry Comments:* Date entered 2/16/95

Data reviewed RW Schroeder 2/16/95 blank found result and sample dup result are incorrect in LabCore and are not changed yet.

*Units shown for QC (SPK) may not reflect the actual units.* *Page:* 1

CYANIDE CALIBRATION CURVE with EDTA/en and Ammonium sulfamate

DATE: FEBRUARY 3, 1995
CALIBRATION STANDARD: 41N8F
INSTRUMENT I.D. WA93252
WORKING STANARD CONCENTRATION: 931uG/mL / 101D.F. = 9.22 uG/mL

| Sample I.D. | uG CN- | Net Abs. | Calc. uG | RPD |
|---|---|---|---|---|
| Blank | 0 | 0 | 0 | 0 |
| 0.050mL | 0.461 | 0.073 | 0.563 | -19.9 |
| 0.200mL | 1.844 | 0.251 | 1.782 | 3.42 |
| 0.400mL | 3.687 | 0.516 | 3.595 | 2.53 |
| 0.600mL | 5.531 | 0.779 | 5.4 | 2.4 |
| 0.800mL | 7.374 | 1.06 | 7.318 | 0.76 |
| 1.000mL | 9.218 | 1.371 | 9.446 | -2.44 |
| 1.200mL | 11.062 | 1.6 | 10.886 | 1.6 |

Regression Output:

| | | |
|---|---|---|
| Constant | | -0.00932 |
| Std Err of Y Est | | 0.019149 |
| R Squared | | 0.999125 |
| No. of Observations | | 8 |
| Degrees of Freedom | | 6 |
| X Coefficient(s) | 0.14612 | |
| Std Err of Coef. | 0.001765 | |

RW Schroeder 2/16/95
For J.T. Knight Jr.

# LABCORE Data Entry Template for Worklist# 568

**Analyst:** JtK **Instrument:** SP01 _____ **Method:** LA-695-102 /C-0

**Worklist Comment:** CN-, BY-106, rws 2/13/95

| Seg | Type | Sample# | Rep | Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK | | | | CN-01 | SOLID | 1 | 3.72E-1 | N/A | ug/g |
| 2 | STD | | | | CN-01 | SOLID | 931 | 869 JWB 2/23/95 ~~860~~ | N/A | mg/ml ~~ug/g~~ RWS 2/22/95 |
| 3 | SAMPLE | S94T000390 | 0 | | CN-01 | SOLID | N/A | 2.14e+1 | 9.59e-1 | ug/g |
| 4 | DUP | S94T000390 | 0 | | CN-01 | SOLID | 2.14e+1 | 2.19e+1 | N/A | ug/g |
| 5 | SPK | S94T000390 | 0 | | CN-01 | SOLID | 100 | 93.9 JWB 2/23/95 ~~92.9~~ | N/A | % rec ~~ug/g~~ RWS 2/22/95 |
| 6 | SAMPLE | S94T000391 | 0 | | CN-01 | SOLID | N/A | 2.27e+0 | 1.10e+0 | ug/g |
| 7 | DUP | S94T000391 | 0 | | CN-01 | SOLID | 2.27e+0 | 2.42e+0 | N/A | ug/g |
| 8 | STD | | | | CN-01 | SOLID | 931 | 884 JWB 2/23/95 ~~875~~ | N/A | mg/ml ~~ug/g~~ JWB 2/22/ |

## Final page for worklist # 568

Analyst Signature _____ Date ~~2/14/95~~ RWS 2/22/95 2/16/95

S94T000390 → .5212 grams into 5ml EDTA/en
S94T000391 → .4568 grams into 5ml EDTA/en
Standard 41N8F → .100ml into 10ml then used .500ml
Spike 41N8F → .160ml into 10ml then used .250ml R 2/14/95
Amount of Dissolution used for samples ~~.500ml~~ R .250ml

R
.064 2/16/95
.701
.417
.151
.455
.059
.057
.694

*Data Entry Comments:* Data entered Robert W Schroeder 2/22/95
Data reviewed JWB 2/23/95

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

CYANIDE CALIBRATION CURVE with EDTA/en and Ammonium sulfamate

DATE: FEBRUARY 3, 1995
CALIBRATION STANDARD: 41N8F
INSTRUMENT I.D. WA93252
WORKING STANARD CONCENTRATION: 931uG/mL / 101D.F. = 9.22 uG/mL

| Sample I.D. | uG CN- | Net Abs. | Calc. uG | RPD |
|---|---|---|---|---|
| Blank | 0 | 0.015 | 0 | 0 |
| 0.050mL | 0.461 | 0.088 | 0.461 | 0 |
| 0.200mL | 1.844 | 0.266 | 1.679 | 9.37 |
| 0.400mL | 3.687 | 0.531 | 3.492 | 5.43 |
| 0.600mL | 5.531 | 0.794 | 5.292 | 4.42 |
| 0.800mL | 7.374 | 1.075 | 7.215 | 2.18 |
| 1.000mL | 9.218 | 1.386 | 9.344 | -1.35 |
| 1.200mL | 11.062 | 1.615 | 10.911 | 1.37 |

Regression Output:

| | | |
|---|---|---|
| Constant | | 0.005682 |
| Std Err of Y Est | | 0.019149 |
| R Squared | | 0.999125 |
| No. of Observations | | 8 |
| Degrees of Freedom | | 6 |
| X Coefficient(s) | 0.14612 | |
| Std Err of Coef. | 0.001765 | |

2/6/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (C-0) BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| BLANK | | |
| Work List | | |
| 568 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| | Absorbance of Blank (Reagent, Prep) | 0.034 |
| Matrix | Digest Dilution Factor | 9.59 |
| LIQUID | Y-Intercept Value | 0.005682 |
| Sample # | Slope Value | 0.146120 |
| BLANK | µg of Cyanide | 0.194 |
| Instrument Code | µg CN- /mL | 3.72E-01 |
| | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| JT KNIGHT jr | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 02/16/95 | Detection Limit = 0.1µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Time | v RESULTS v | |
| 11:00 AM | Cyanide Concentration (µg/mL) | 3.72E-01 |
| Calibration Date | | |
| 02/03/95 | | |

| Detection Limit µg CN- / mL |
|---|
| 1.92E-01 |

| | | | |
|---|---|---|---|
| Data Entry by: | Ru Schroeder | Date: | 02/22/95 |
| Approved by: | [illegible] | Date: | 2/22/95 |

Form 695102C1 Rev. 1.4

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

## CN- DETERMINATION : LA-695-102 (C-0) SPIKE, STANDARD

| | | NA | STANDARD |
|---|---|---|---|
| **Type** | | | |
| Standard | Standard Aliquot in mL | | 0.100 |
| **Work List** | Diluent + Standard Volume | | 10.10 |
| 568 | Diluted Standard in mL to be Analyzed | | 0.500 |
| **Test Code** | True Value CN- Concentration (µg/mL) | | 931 |
| | Absorbance of Blank | | 0.034 |
| **Matrix** | Absorbance of Standard | | 0.668 |
| Liquid | Y-Intercept Value | | 0.005682 |
| **Sample #** | Slope Value | | 0.146120 |
| ICV | µg of CN in Standard | | 4.300 |
| **Instrument Code** | | | |
| | | | |
| **Analyst** | | | |
| JT Knight Jr. | | | |
| **Date** | µg of CN-/mL in Standard | | 869 |
| 02/16/95 | | | |
| **Time** | Standard % Recovery | | 93.3% |
| 11:00 AM | | | |
| **Calibration Date** | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/03/95 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | | Date: | 02/23/95 |
| Approved by: | | Date: | 2/23/95 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (C-0) BLANK, LIQUID, SOLID

| | | SAMPLE |
|---|---|---|
| Type: LIQUID | Sample Aliquot in mL | 1.00000 |
| Work List: 568 | Sample Dilution Volume in mL (Sample+H2O Vol. | 1.00000 |
| | Sample Aliquot Taken from dilution in mL (SS) | 1.00000 |
| Test Code: | Absorbance of Blank | 0.034 |
| | Absorbance of Sample | 0.365 |
| Matrix: LIQUID | Digest Dilution Factor | 9.59 |
| | Y-Intercept Value | 0.005682 |
| Sample #: S94T000390 | Slope Value | 0.146120 |
| | µg of Cyanide | 2.226 |
| Instrument Code: | µg CN- /mL | 2.14E+01 |

Analyst: JT KNIGHT jr

Date: 02/16/95

Time: 11:00 AM

Calibration Date: 02/03/95

µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value
µg/mL of Cyanide = µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor
Dilution Factor = Flask Volume (mL) / Sample Aliquot (mL)
Detection Limit = 0.1µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor

v RESULTS v

| | | Detection Limit µg CN- / mL |
|---|---|---|
| Cyanide Concentration (µg/mL) | 2.14E+01 | 9.59E-01 |

| | | | |
|---|---|---|---|
| Data Entry by: | RW Schroeder | Date: | 02/22/95 |
| Approved by: | | Date: | 2/22/95 |

Form 695102C1 Rev. 1.4

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (C-0) BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| LIQUID | Sample Aliquot in mL | 1.00000 |
| Work List | Sample Dilution Volume in mL (Sample+H2O Vol. | 1.00000 |
| 568 | Sample Aliquot Taken from dilution in mL (SS) | 1.00000 |
| Test Code | Absorbance of Blank | 0.034 |
| DUPLICATE | Absorbance of Sample | 0.373 |
| Matrix | Digest Dilution Factor | 9.59 |
| LIQUID | Y-Intercept Value | 0.005682 |
| Sample # | Slope Value | 0.146120 |
| S94T000390 | µg of Cyanide | 2.281 |
| Instrument Code | µg CN- /mL | 2.19E+01 |

| | |
|---|---|
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value |
| JT KNIGHT jr | µg/mL of Cyanide = µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor |
| Date | Dilution Factor = Flask Volume (mL) / Sample Aliquot (mL) |
| 02/16/95 | Detection Limit = 0.1µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor |
| Time | v RESULTS v |

| | | | |
|---|---|---|---|
| 11:00 AM | Cyanide Concentration (µg/mL) | 2.19E+01 | Detection Limit |
| Calibration Date | | | µg CN- / mL |
| 02/03/95 | | | 9.59E-01 |

| | | | |
|---|---|---|---|
| Data Entry by: | Ric Schroeder | Date: | 02/22/95 |
| Approved by: | JTKnight | Date: | 2/22/95 |

Form 695102C1 Rev. 1.4

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

## CN- DETERMINATION : LA-695-102 (C-0) SPIKE, STANDARD

| Type | | SPIKE | NA |
|---|---|---|---|
| Spike | Spike Aliquot in mL | 0.100 | |
| Work List | Diluent + Spike Standard Volume | 10.10 | |
| 568 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 931 | |
| | Absorbance of Blank | 0.034 | |
| Matrix | Absorbance of Sample+Spike | 0.681 | |
| Liquid | Y-Intercept Value | 0.005682 | |
| Sample # | Slope Value | 0.146120 | |
| ~~CCV~~ 94JT00390 | µg of CN- in Sample+Spike | 4.389 | ERR |
| Instrument Code | | | |
| | | | |
| Analyst | Known µg of CN- in Original Sample | 2.2260 | |
| JT Knight Jr. | | | |
| Date | µg of CN- in Spike | 2.3045 | |
| 02/16/95 | | | |
| Time | Spike % Recovery | 93.9% | |
| 11:00 AM | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/03/95 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 02/23/95 |
| Approved by: | [signature] | Date: | 2/23/95 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (C-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| LIQUID | Sample Aliquot in mL | 1.00000 |
| Work List | Sample Dilution Volume in mL (Sample+H2O Vol. | 1.00000 |
| 568 | Sample Aliquot Taken from dilution in mL (SS) | 1.00000 |
| Test Code | Absorbance of Blank | 0.034 |
| ~~DUPLICATE~~ RWS 2/22/95 | Absorbance of Sample | 0.070 |
| Matrix | Digest Dilution Factor | 10.95 |
| LIQUID | Y-Intercept Value | 0.005682 |
| Sample # | Slope Value | 0.146120 |
| S94T000391 | µg of Cyanide | 0.207 |
| Instrument Code | µg CN- /mL | 2.27E+00 |

| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value |
|---|---|
| JT KNIGHT jr | µg/mL of Cyanide = µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor |
| Date | Dilution Factor = Flask Volume (mL) / Sample Aliquot (mL) |
| 02/16/95 | Detection Limit = 0.1µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor |
| Time | v RESULTS v |
| 11:00 AM | Cyanide Concentration (µg/mL) 2.27E+00 |
| Calibration Date | |
| 02/03/95 | |

| Detection Limit µg CN- / mL |
|---|
| 1.10E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Rus Schroeder | Date: | 02/22/95 |
| Approved by: | JT Knight | Date: | 2/23/95 |

Form 695102C1 Rev. 1.4

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (C-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| LIQUID | Sample Aliquot in mL | 1.00000 |
| Work List | Sample Dilution Volume in mL (Sample+H2O Vol. | 1.00000 |
| 568 | Sample Aliquot Taken from dilution in mL (SS) | 1.00000 |
| Test Code | Absorbance of Blank | 0.034 |
| DUPLICATE | Absorbance of Sample | 0.072 |
| Matrix | Digest Dilution Factor | 10.95 |
| LIQUID | Y-Intercept Value | 0.005682 |
| Sample # | Slope Value | 0.146120 |
| S94T000391 | µg of Cyanide | 0.221 |
| Instrument Code | µg CN- /mL | 2.42E+00 |
| [illegible] | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT jr | µg/mL of Cyanide = µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor | |
| Date | Dilution Factor = Flask Volume (mL) / Sample Aliquot (mL) | |
| 02/16/95 | Detection Limit = 0.1µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor | |
| Time | v RESULTS v | |
| 11:00 AM | Cyanide Concentration (µg/mL) | 2.42E+00 |
| Calibration Date | | |
| 02/03/95 | | |

| Detection Limit µg CN- / mL |
|---|
| 1.10E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Rus Schroeder | Date: | 02/22/95 |
| Approved by: | [illegible] | Date: | 2/23/95 |

Form 695102C1 Rev. 1.4

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

## CN- DETERMINATION : LA-695-102 (C-0) SPIKE, STANDARD

| | | NA | STANDARD |
|---|---|---|---|
| Type: Standard | Standard Aliquot in mL | | 0.100 |
| Work List: 568 | Diluent + Standard Volume | | 10.10 |
| | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code: | True Value CN- Concentration (µg/mL) | | 931 |
| | Absorbance of Blank | | 0.034 |
| Matrix: Liquid | Absorbance of Standard | | 0.679 |
| | Y-Intercept Value | | 0.005682 |
| Sample #: CCV | Slope Value | | 0.146120 |
| | µg of CN in Standard | | 4.375 |
| Instrument Code: | | | |
| Analyst: JT Knight Jr. | | | |
| Date: 02/16/95 | µg of CN-/mL in Standard | | 884 |
| Time: 11:00 AM | Standard % Recovery | | 94.9% |
| Calibration Date: 02/03/95 | Slope and Y-Intercept calculated from working curve calibration<br>Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | | Date: | 02/23/95 |
| Approved by: | | Date: | 2/23/95 |

Form X2 Rev. 1.0

# LABCORE Data Entry Template for Worklist# 641

**Analyst:** JTK **Instrument:** SP01 **Book #** 54N8A

**Method:** LA-695-102 Rev/Mod C-O

**Worklist Comment:** BY-106 CN re-analysis use 1.0mL for 344, 0.500mL for 345.

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | CN-01 | SOLID | 1 | 9.50e-1 | N/A | ug/g |
| | | 2 | STD | | | | CN-01 | SOLID | 915 | 942 | N/A | ug/g |
| 94000019 | BY-106 | 3 | SAMPLE | S94T000344 | 0 | | CN-01 | SOLID | N/A | 9.02e0 | 8.43e-1 | ug/g |
| 94000019 | BY-106 | 4 | DUP | S94T000344 | 0 | | CN-01 | SOLID | 9.02e0 | 9.49e0 | N/A | ug/g |
| 94000019 | BY-106 | 5 | SPK | S94T000344 | 0 | | CN-01 | SOLID | 100 | 104.7 | N/A | ug/g |
| 94000019 | BY-106 | 6 | SAMPLE | S94T000345 | 0 | | CN-01 | SOLID | N/A | 2.16e1 | 7.84e-1 | ug/g |
| 94000019 | BY-106 | 7 | DUP | S94T000345 | 0 | | CN-01 | SOLID | 2.16e1 | 2.50e1 | N/A | ug/g |
| | | 8 | STD | | | | CN-01 | SOLID | 915 | 938 | N/A | ug/g |

## Final page for worklist # 641

Robert W. Schroeder For Jim T. Knight Jr.
**Analyst Signature** **Date** **Analyst Signature** **Date**

3-23-95

Worklist approved 3/24/95

*Data Entry Comments:*
S94T000344 – 1.1856 g in 10ml EDTA/en – 1mL
S94T000345 – 1.2763 g in 10 ml EDTA/en – 1mL
Sample S94T000345 reacts with reagents / incompatable with method spik

*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.*

CYANIDE CALIBRATION CURVE with EDTA/en and Ammonium sulfamate

DATE: FEBRUARY 3, 1995
CALIBRATION STANDARD: 41N8F
INSTRUMENT I.D. WA93252
WORKING STANARD CONCENTRATION: 931uG/mL / 101D.F. = 9.22 uG/mL

| Sample I.D. | uG CN- | Net Abs. | Calc. uG | RPD |
|---|---|---|---|---|
| Blank | 0 | 0 | 0 | 0 |
| 0.050mL | 0.461 | 0.073 | 0.563 | -19.9 |
| 0.200mL | 1.844 | 0.251 | 1.782 | 3.42 |
| 0.400mL | 3.687 | 0.516 | 3.595 | 2.53 |
| 0.600mL | 5.531 | 0.779 | 5.4 | 2.4 |
| 0.800mL | 7.374 | 1.06 | 7.318 | 0.76 |
| 1.000mL | 9.218 | 1.371 | 9.446 | -2.44 |
| 1.200mL | 11.062 | 1.6 | 10.886 | 1.6 |

Regression Output:

| | | |
|---|---|---|
| Constant | | -0.00932 |
| Std Err of Y Est | | 0.019149 |
| R Squared | | 0.999125 |
| No. of Observations | | 8 |
| Degrees of Freedom | | 6 |
| X Coefficient(s) | 0.14612 | |
| Std Err of Coef. | 0.001765 | |

Robert W. Schroeder
3/23/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (C-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| BLANK | | 0.00000 |
| Work List | | 0.00000 |
| 641 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| | Absorbance of Blank (Reagent, Prep) | 0.073 |
| Matrix | Digest Dilution Factor | 8.43 |
| LIQUID | Y-Intercept Value | -0.009320 |
| Sample # | Slope Value | 0.146120 |
| BLANK | µg of Cyanide | 0.563 |
| Instrument Code | µg CN- ~~/mL~~ g RWS 3/23/95 | 9.50E-01 |
| | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| KNIGHT | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/15/95 | Detection Limit = 0.1µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Time | v RESULTS v RWS 3/23/95 | |
| | Cyanide Concentration (~~µg/mL~~) mg/g | 9.50E-01 |
| Calibration Date | | |
| 02/03/95 | | |

| Detection Limit |
|---|
| µg CN- / ~~mL~~ g RWS 3/23 |
| 1.69E-01 |

| | | | |
|---|---|---|---|
| Data Entry by: | R W Schroeder | Date: | 03/23/95 |
| Approved by: | [illegible] | Date: | 3/23/95 |

Form 695102C1 Rev. 1.4

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

## CN- DETERMINATION : LA-695-102 (C-0) SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| Standard | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 641 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| | Absorbance of Blank | | 0.073 |
| Matrix | Absorbance of Standard | | 0.752 |
| Liquid | Y-Intercept Value | | -0.009320 |
| Sample # | Slope Value | | 0.146120 |
| Standard | µg of CN in Standard | | 4.711 |
| Instrument Code | | | |
| | | | |
| Analyst | | | |
| JT KNIGHT | | | |
| Date | µg of CN-/mL in Standard | | 942 |
| 03/15/95 | | | |
| Time | Standard % Recovery | | 103.0% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/03/95 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | Rw Schroeder | Date: | 03/23/95 |
| Approved by: | | Date: | 3/23/95 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (C-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 1.18560 |
| Work List | Dissolution Volume (EDTA/en + sample) (DV) | 10.00000 |
| 641 | Aliquot Analyzed from Dissolution (A) | 1.00000 |
| Test Code | Dilution Factor (DF) | 10.000 |
| | Absorbance of Blank | 0.073 |
| Matrix | Absorbance of Sample | 0.22 |
| SOLID | Y-Intercept Value | -0.009320 |
| Sample # | Slope Value | 0.146120 |
| S94T344-SAMP | µg of Cyanide | 1.070 |
| Instrument Code | µg CN- /g | 9.02E+00 |
| | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| KNIGHT | µg/g of Cyanide = µg Cyanide / SS (g) * DF | |
| Date | Dilution Factor = (DV / SS) * A | |
| 03/15/95 | Detection Limit = 0.1µg Cyanide / SS * DF | |
| Time | v RESULTS v | |

| | | | |
|---|---|---|---|
| | Cyanide Concentration (µg/g) | 9.02E+00 | Detection Limit |
| Calibration Date | | | µg CN- / g |
| 02/03/95 | | | 8.43E-01 |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 03/22/95 |
| Approved by: | Ru Schroeder | Date: | 3/23/95 |

Form 695102C1 Rev. 1.4

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (C-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 1.18560 |
| Work List | Dissolution Volume (EDTA/en + sample) (DV) | 10.00000 |
| 641 | Aliquot Analyzed from Dissolution (A) | 1.00000 |
| Test Code | Dilution Factor (DF) | 10.000 |
| | Absorbance of Blank | 0.073 |
| Matrix | Absorbance of Sample | 0.228 |
| SOLID | Y-Intercept Value | -0.009320 |
| Sample # | Slope Value | 0.146120 |
| S94T344-DUP | µg of Cyanide | 1.125 |
| Instrument Code | µg CN- /g | 9.49E+00 |
| | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| KNIGHT | µg/g of Cyanide = µg Cyanide / SS (g) * DF | |
| Date | Dilution Factor = (DV / SS) * A | |
| 03/15/95 | Detection Limit = 0.1µg Cyanide / SS * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 9.49E+00 |
| Calibration Date | | |
| 02/03/95 | | |

| Detection Limit µg CN- / g |
|---|
| 8.43E-01 |

Data Entry by: [signature] Date: 03/22/95

Approved by: RW Schroeder Date: 3/22/95

Form 695102C1 Rev. 1.4

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

## CN- DETERMINATION : LA-695-102 (C-0) SPIKE, STANDARD

| | | SPIKE | NA |
|---|---|---|---|
| **Type** | | | |
| SPIKE | Spike Aliquot in mL | 0.250 | 0.000 |
| **Work List** | Diluent + Spike Standard Volume | 25.00 | 0.00 |
| 641 | Diluted Spike Standard in mL | 0.250 | 0.000 |
| **Test Code** | True Value CN- Concentration (µg/mL) | 915 | 0 |
| | Absorbance of Blank | 0.073 | 0.000 |
| **Matrix** | Absorbance of Sample+Spike | 0.570 | 0.000 |
| Liquid | Y-Intercept Value | -0.009320 | |
| **Sample #** | Slope Value | 0.146120 | |
| S94T344-SPIKE | µg of CN- in Sample+Spike | 3.465 | ERR |
| **Instrument Code** | | | |
| | | | |
| **Analyst** | Known µg of CN- in Original Sample | 1.0700 | |
| JT KNIGHT | | | |
| **Date** | µg of CN- in Spike | 2.2875 | |
| 03/15/95 | | | |
| **Time** | Spike % Recovery | 104.7% | |
| | | | |
| **Calibration Date** | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/03/95 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | RW Schroeder | Date: | 03/23/95 |
| Approved by: | [illegible] | Date: | 3/23/95 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (C-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 1.27630 |
| Work List | Dissolution Volume (EDTA/en + sample) (DV) | 10.00000 |
| 641 | Aliquot Analyzed from Dissolution (A) | 1.00000 |
| Test Code | Dilution Factor (DF) | 10.000 |
| | Absorbance of Blank | 0.073 |
| Matrix | Absorbance of Sample | 0.467 |
| SOLID | Y-Intercept Value | -0.009320 |
| Sample # | Slope Value | 0.146120 |
| S94T345-SAMP | µg of Cyanide | 2.760 |
| Instrument Code | µg CN- /g | 2.16E+01 |

| | |
|---|---|
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value |
| KNIGHT | µg/g of Cyanide = µg Cyanide / SS (g) * DF |
| Date | Dilution Factor = (DV / SS) * A |
| 03/15/95 | Detection Limit = 0.1µg Cyanide / SS * DF |
| Time | v RESULTS v |

| | | | |
|---|---|---|---|
| | Cyanide Concentration (µg/g) | 2.16E+01 | Detection Limit |
| Calibration Date | | | µg CN- / g |
| 02/03/95 | | | 7.84E-01 |

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 03/22/95 |
| Approved by: | Ron Schroeder | Date: | 3/22/95 |

Form 695102C1 Rev. 1.4

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (C-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 1.27630 |
| Work List | Dissolution Volume (EDTA/en + sample) (DV) | 10.00000 |
| 641 | Aliquot Analyzed from Dissolution (A) | 1.00000 |
| Test Code | Dilution Factor (DF) | 10.000 |
| | Absorbance of Blank | 0.073 |
| Matrix | Absorbance of Sample | 0.53 |
| SOLID | Y-Intercept Value | -0.009320 |
| Sample # | Slope Value | 0.146120 |
| S94T345-DUP | µg of Cyanide | 3.191 |
| Instrument Code | µg CN- /g | 2.50E+01 |
| | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| KNIGHT | µg/g of Cyanide = µg Cyanide / SS (g) * DF | |
| Date | Dilution Factor = (DV / SS) * A | |
| 03/15/95 | Detection Limit = 0.1µg Cyanide / SS * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 2.50E+01 |
| Calibration Date | | |
| 02/03/95 | | |

| Detection Limit µg CN- / g |
|---|
| 7.84E-01 |

Data Entry by: [signature] Date: 03/22/95

Approved by: Rui Schroeder Date: 3/23/95

Form 695102C1 Rev. 1.4

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

## CN- DETERMINATION : LA-695-102 (C-0) SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| Standard | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 641 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| | Absorbance of Blank | | 0.073 |
| Matrix | Absorbance of Standard | | 0.749 |
| Liquid | Y-Intercept Value | | -0.009320 |
| Sample # | Slope Value | | 0.146120 |
| CCV | µg of CN in Standard | | 4.690 |
| Instrument Code | | | |
| | | | |
| Analyst | | | |
| JT KNIGHT | | | |
| Date | µg of CN-/mL in Standard | | 938 |
| 03/15/95 | | | |
| Time | Standard % Recovery | | 102.5% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/03/95 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | Ric Schroeder | Date: | 03/23/95 |
| Approved by: | [illegible] | Date: | 3/23/95 |

Form X2 Rev. 1.0

worklistrpt Version 2.0 02/21/95
04/18/95 14:57



# LABCORE Data Entry Template for Worklist# 1072

**Analyst:** JTK **Instrument:** SP01 WA 33252 **Book #** 54NBB

**Method:** LA-695-102 Rev/Mod C-0

**Worklist Comment:** BY-106 CN-

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | CN-01 | SOLID | 1 | 1.04 | N/A | ug/g |
| | | 2 | STD | 54NBB | | | CN-01 | SOLID | 917 | 972 | N/A | ug/mL ~~ug/g~~ gwB 4/19/95 |
| 95000007 | BY-106 | 3 | SAMPLE | S95T000099 | 0 | | CN-01 | SOLID | N/A | 98.9 | 17.9 | ug/g |
| 95000007 | BY-106 | 4 | DUP | S95T000099 | 0 | | CN-01 | SOLID | 98.9 | 88.9 | N/A | ug/g |
| 95000007 | BY-106 | 5 | SPK | S95T000099 | 0 | | CN-01 | SOLID | 100 | 93.0 | N/A | % ~~ug/g~~ gwB 4/19/95 |
| | | 6 | STD | 54NBB | | | CN-01 | SOLID | 917 | 880 | N/A | ug/mL ~~ug/g~~ gwB 4/19/95 |

## Final page for worklist # 1072

FOR JTK 4/19/95
**Analyst Signature** **Date**

4/19/95
**Analyst Signature** **Date**

Reviewed Rob Schroeder 4-19-95

*Data Entry Comments:* Original worklist attached with tech's notes. C-103 sample deleted off original worklist.

*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# 1072

**Analyst:** R **Instrument:** SP01 WA 93252 **Book #** _____

**Method:** LA-695-102 Rev/Mod C-0

**Worklist Comment:** CN-, BY-106,C-103 - use EdTA/en

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | CN-01 | SOLID | | | N/A | ug/g |
| | | 2 | STD | | | | CN-01 | SOLID | | | N/A | ug/g |
| 95000007 | BY-106 | 3 | SAMPLE | S95T000099 | 0 | | CN-01 | SOLID | N/A | ~~98.9~~ RWS 4.19.95 | | ug/g |
| 95000007 | BY-106 | 4 | DUP | S95T000099 | 0 | | CN-01 | SOLID | ~~98.9~~ | ~~88.9~~ RWS 4.19.95 | N/A | ug/g |
| 95000007 | BY-106 | 5 | SPK | S95T000099 | 0 | | CN-01 | SOLID | | | N/A | ug/g |
| ~~94000012~~ | ~~C-103~~ | ~~6~~ | ~~SAMPLE~~ | S95T000046 | 0 | | CN-01 | SOLID | N/A | | | ug/g |
| ~~94000012~~ | ~~C-103~~ | ~~7~~ | ~~DUP~~ R 4.19.95 | S95T000046 | 0 | | CN-01 | SOLID | | | N/A | ug/g |
| | | 6 | ~~8~~ STD | | | | CN-01 | SOLID | | | N/A | ug/g |

## Final page for worklist # 1072

4.19.95 — Analyst Signature — Date

4.19.95 — Analyst Signature — Date

.6159g into 10ml EDTA/en Solution 1ml into 10ml - .500ml sample size
Std 54NgB .250 to 25ml & .500ml used for Std
.250ml used for spike

.051
.765
.105
.101
.426
.698

*Data Entry Comments:* C-103 Not done

*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.*

(1) Blank

$$\frac{(0.051) - 0.014205}{0.143914} = 0.256\ \mu g$$

$$\left(0.256 / 4.0\,mL\ max.\ vol.\right)\left(10 / 0.6159\right) = 1.04\ \mu g/g$$

(3) gwB 4/19/95 S95T000099

~~(2)~~

$$\frac{(0.105 - 0.051) - 0.014205}{0.143914} = 0.277\ \mu g\ CN^-$$

$$\frac{0.277\ \mu g}{0.500\ ml} \times 11\ d.f. \times \frac{10\ ml}{0.6159\ g} = \underline{98.9\ \mu g/g}$$

(4) gwB 4/19/95 S95T000099 Dup

~~(3)~~

$$\frac{(0.101 - 0.051) - 0.014205}{0.143914} = 0.249\ \mu g\ CN^-$$

$$\frac{0.249\ \mu g}{0.500\ ml} \times 11\ d.f. \times \frac{10\ ml}{0.6159\ g} = \underline{88.9\ \mu g/g}$$

(5) gwB 4/19/95

~~(4)~~ S95T000099 Spike

$$\frac{(0.426 - 0.105) - 0.014205}{0.143914} = 2.13\ \mu g\ CN$$

$$\frac{917\ \mu g/ml}{100\ d.f.} \times 0.250\ ml = 2.29\ \mu g\ CN$$

$2.13\ \mu g / 2.29\ \mu g \times 100\% = \underline{93.0\%\ recovery}$

(2) Beginning Std. 54N8-B

$$\frac{(0.765 - 0.051) - 0.014205}{0.143914} = 4.86\,\mu g$$

$$4.86\,\mu g / 0.500\,ml \times 100\ d.f. = 972\ ppm$$

$$972 / 917 \times 100\% = 106\%\ \text{recovery}$$

(6) Ending Std. 54N8-B

$$\frac{(0.698 - 0.051) - 0.014205}{0.143914} = 4.40\,\mu g$$

$$4.40\,\mu g / 0.500\,ml \times 100\ d.f. = 880\ ppm$$

$$880 / 917 \times 100\% = 96.0\%\ \text{recovery}$$

Cyanide Calibration with EDTA/en and Ammonium Sulfamate

Date: April 18, 1995
Calibraton Standard: 44N8C
Instrument ID: WA93252
Working Standard Concentration: 1026 ppm / 100 d.f. = 10.26 ppm

| Sample | Vol. Working Std. (ml) | ug CN- | Net Abs. |
|---|---|---|---|
| 1 | 0 | 0 | 0 |
| 2 | 0.05 | 0.513 | 0.054 |
| 3 | 0.2 | 2.05 | 0.358 |
| 4 | 0.4 | 4.1 | 0.605 |
| 5 | 0.6 | 6.16 | 0.909 |
| 6 | 1 | 10.26 | 1.5 |
| 7 | 1.2 | 12.31 | 1.767 |

Regression Output:

| | |
|---|---|
| Constant | 0.014205 |
| Std Err of Y Est | 0.029141 |
| R Squared | 0.998507 |
| No. of Observations | 7 |
| Degrees of Freedom | 5 |

| | |
|---|---|
| X Coefficient(s) | 0.143914 |
| Std Err of Coef. | 0.002489 |

# LABCORE Data Entry Template for Worklist# 5468

**Analyst:** jtk **Instrument:** CN01 **Book #** 71N8G

**Method:** LA-695-103 Rev/Mod A-0

**Worklist Comment:** BY-106 CN. RCJ

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | CN-01 | SOLID | 1 | <3.80e-2 | N/A | ug/g |
| | | 2 | STD | | | | CN-01 | SOLID | 9.15e+2 | 9.93e+2 | N/A | ug/g |
| 95000229 | BY-106 | 3 | SAMPLE | S95T004169 | 0 | | CN-01 | SOLID | N/A | 1.56e+1 | 2.52e+0 | ug/g |
| 95000229 | BY-106 | 4 | DUP | S95T004169 | 0 | | CN-01 | SOLID | 1.56e+1 | 1.67e+1 | N/A | ug/g |
| 95000229 | BY-106 | 5 | SPK | S95T004169 | 0 | | CN-01 | SOLID | 100.0 | 104.5 | N/A | ug/g |
| 95000229 | BY-106 | 6 | SAMPLE | S95T004170 | 0 | | CN-01 | SOLID | N/A | 2.77e+1 | 2.44e+0 | ug/g |
| 95000229 | BY-106 | 7 | DUP | S95T004170 | 0 | | CN-01 | SOLID | 2.77e+1 | 3.09e+1 | N/A | ug/g |
| 95000229 | BY-106 | 8 | SPK | S95T004170 | 0 | | CN-01 | SOLID | 100.0 | 105.5 | N/A | ug/g |
| | | 9 | CCV | | | | CN-01 | SOLID | 9.15e+2 | 1.00e+3 | N/A | ug/g |
| | | 10 | CCB | | | | CN-01 | SOLID | 1 | <1.10e-2 | N/A | ug/g |

for JT Knight, Jr **Final page for worklist # 5468**

Heather Anastos 3-26-96
**Analyst Signature Date**

Frida Conlin 3/26/96
**Analyst Signature Date**

Approved by H Anastos 3-26-96

*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.*

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) BLANK, LIQUID, SOLID

LC 3/26/96

| Type | | SAMPLE |
|---|---|---|
| BLANK | | |
| **Work List** | | |
| 5468 | Blank Weight in g (SS) | 5.00000 |
| **Test Code** | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.003 |
| **Matrix** | Digest Dilution Factor | 1 |
| SOLID | Y-Intercept Value | 0.000194 |
| **Sample #** | Slope Value | 0.143424 |
| BLNK | µg of Cyanide | 0.020 |
| **Instrument Code** | µg CN- /g | 3.91E-03 |
| SPEC 301 | | |
| **Analyst** | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| **Date** | | |
| 03/25/96 | Detection Limit = 0.19 µg Cyanide * Digest Dilution Factor / SS (mL) | |
| **Time** | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / g |
|---|---|---|---|
| **Calibration Date** | | | |
| 02/23/96 | | | 3.80E-02 |

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Conlon | Date: | 03/26/96 |
| Approved by: | H Anderson | Date: | 3-26-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103(A-0) SPIKE, STANDARD

LA 3/26/96

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5468 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.003 |
| Matrix | Absorbance of Standard | | 0.715 |
| SOLID | Y-Intercept Value | | 0.000194 |
| Sample # | Slope Value | | 0.143424 |
| 71N8G | µg of CN in Standard | ERR | 4.963 |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | | | |
| JT KNIGHT JR | | | |
| Date | µg of CN-/mL in Standard | ERR | 993 |
| 03/25/96 | | | |
| Time | Standard % Recovery | | 108.5% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | Sheila Coulin | Date: | 03/26/96 |
| Approved by: | H Anaston | Date: | 3-26-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) BLANK, LIQUID, SOLID

lc 3/26/96

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.75310 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5468 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.003 |
| Matrix | Absorbance of Sample | 0.172 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004169 | µg of Cyanide | 1.177 |
| Instrument Code | µg CN- /g | 1.56E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/25/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.56E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.52E+00 |

Data Entry by: Linda Cowlin Date: 03/26/96

Approved by: H Anastn Date: 3-26-96

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) BLANK, LIQUID, SOLID

LE 3/26/96

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.70532 |
| **Work List** | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5468 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| **Test Code** | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.003 |
| **Matrix** | Absorbance of Sample | 0.172 |
| SOLID | Y-Intercept Value | 0.000194 |
| **Sample #** | Slope Value | 0.143424 |
| S95T004169 DUP | µg of Cyanide | 1.177 |
| **Instrument Code** | µg CN- /g | 1.67E+01 |
| SPEC 301 | | |
| **Analyst** | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| **Date** | | |
| 03/25/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| **Time** | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.67E+01 |
| **Calibration Date** | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.69E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Combs | Date: | 03/26/96 |
| Approved by: | H Anastos | Date: | 3-26-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) SPIKE, STANDARD

LC 3/26/96

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5468 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.003 | |
| Matrix | Absorbance of Sample+Spike | 0.515 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S95T004169 | µg of CN- in Sample+Spike | 3.568 | ERR |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 1.1770 | |
| JT KNIGHT JR | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/25/96 | | | |
| Time | Spike % Recovery | 104.5% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | Frank Conti | Date: | 03/26/96 |
| Approved by: | H Anastos | Date: | 3-26-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) BLANK, LIQUID, SOLID

LE 3/26/96

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.77730 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5468 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.003 |
| Matrix | Absorbance of Sample | 0.312 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004170 | µg of Cyanide | 2.153 |
| Instrument Code | µg CN- /g | 2.77E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/25/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 2.77E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.44E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Cook | Date: | 03/26/96 |
| Approved by: | H Anastn | Date: | 3-26-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-D) BLANK, LIQUID, SOLID

le 3/26/96

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.71530 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5468 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.003 |
| Matrix | Absorbance of Sample | 0.32 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004170 DUP | µg of Cyanide | 2.209 |
| Instrument Code | µg CN- /g | 3.09E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/25/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 3.09E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.66E+00 |

Data Entry by: Linda Ponto Date: 03/26/96

Approved by: H Anastas Date: 3-26-96

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-D) SPIKE, STANDARD

le 3/26/96

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5468 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.003 | |
| Matrix | Absorbance of Sample+Spike | 0.658 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S95T004170 | µg of CN- in Sample+Spike | 4.566 | ERR |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 2.1530 | |
| JT KNIGHT JR | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/25/96 | | | |
| Time | Spike % Recovery | 105.5% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Cook | Date: | 03/26/96 |
| Approved by: | H Pinastro | Date: | 3-26-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103(A-0) SPIKE, STANDARD

le 3/26/96

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5468 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.002 |
| Matrix | Absorbance of Standard | | 0.746 |
| LIQUID | Y-Intercept Value | | 0.007237 |
| Sample # | Slope Value | | 0.147420 |
| CCV | µg of CN in Standard | ERR | 4.998 |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | | | |
| JT KNIGHT JR | | | |
| Date | µg of CN-/mL in Standard | ERR | 1000 |
| 03/25/96 | | | |
| Time | Standard % Recovery | | 109.2% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/25/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Cook | Date: | 03/26/96 |
| Approved by: | H Anastos | Date: | 3-26-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) BLANK, LIQUID, SOLID

LC 3/26/96

| Type | | SAMPLE |
|---|---|---|
| BLANK | | |
| Work List | | |
| 5468 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.002 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.007237 |
| Sample # | Slope Value | 0.147420 |
| CCB | µg of Cyanide | -0.036 |
| Instrument Code | µg CN- /mL | -7.10E-03 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/25/96 | Detection Limit = 0.055 µg Cyanide / SS (mL) * Digest Dilution Factor | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / mL |
|---|---|---|---|
| Calibration Date | | | |
| 02/25/96 | | | 1.10E-02 |

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Cook | Date: | 03/26/96 |
| Approved by: | H Anasto | Date: | 3-26-96 |

Form 695102C1 Rev. 1.7

# LABCORE Data Entry Template for Worklist# 5484

**Analyst:** jtk **Instrument:** CN01 _____ **Book #** 71N8G

**Method:** LA-695-~~103~~ Rev/Mod ~~C-0~~ 103-A-0 HLA 3-25-96
LE 3/24/96

**Worklist Comment:** BY-106 FOR CYANIDE RTS!

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | CN-01 | SOLID | 1 | $<3.80e^{-2}$ | N/A | ug/g |
| | | 2 | STD | | | | CN-01 | SOLID | 915 | 931 | N/A | ug/g |
| 95000229 | BY-106 | 3 | SAMPLE | S95T004171 | 0 | | CN-01 | SOLID | N/A | $1.09e^{+1}$ | $3.08e^{+0}$ | ug/g |
| 95000229 | BY-106 | 4 | DUP | S95T004171 | 0 | | CN-01 | SOLID | $1.09e^{+1}$ | $1.20e^{+1}$ | N/A | ug/g |
| 95000229 | BY-106 | 5 | SPK | S95T004171 | 0 | | CN-01 | SOLID | 100 | 102.4 | N/A | ug/g |
| 95000229 | BY-106 | 6 | SAMPLE | S95T004172 | 0 | | CN-01 | SOLID | N/A | $2.03e^{+1}$ | $2.08e^{+0}$ | ug/g |
| 95000229 | BY-106 | 7 | DUP | S95T004172 | 0 | | CN-01 | SOLID | $2.03e^{+1}$ | $1.70e^{+1}$ | N/A | ug/g |
| 95000229 | BY-106 | 8 | SPK | S95T004172 | 0 | | CN-01 | SOLID | 100 | 88.4 | N/A | ug/g |
| | | 9 | CCV | | | | CN-01 | SOLID | 915 | 959 | N/A | ug/g |
| | | 10 | CCB | | | | CN-01 | SOLID | 1 | $<1.10e^{-2}$ | N/A | ug/g |

## Final page for worklist # 5484

for JTKnight, Jr
Heather Anastor 3-25-96
**Analyst Signature** **Date**

Linda Conlin 3/24/96
**Analyst Signature** **Date**

Approved by
HAnastor 3-25-96

*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.*

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 A-O HLQ 3.25.96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| BLANK | | |
| Work List | | |
| 5484 | Blank Weight in g (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.003 |
| Matrix | Digest Dilution Factor | 1 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| BLANK | µg of Cyanide | 0.020 |
| Instrument Code | µg CN- /g | 3.91E-03 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| JT KNIGHT | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/21/96 | Detection Limit = 0.19 µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / g |
|---|---|---|---|
| Calibration Date | | | |
| 02/23/96 | | | 3.80E-02 |

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Conlin | Date: | 03/24/96 |
| Approved by: | H Anastos | Date: | 3.25.96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

103 A-O HLA 3-25-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ - SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5484 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.003 |
| Matrix | Absorbance of Standard | | 0.671 |
| SOLID | Y-Intercept Value | | 0.000194 |
| Sample # | Slope Value | | 0.143424 |
| 71N8G | µg of CN in Standard | ERR | 4.656 |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | | | |
| JT KNIGHT | | | |
| Date | µg of CN-/mL in Standard | ERR | 931 |
| 03/21/96 | | | |
| Time | Standard % Recovery | | 101.8% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | Jessie Conlin | Date: | 03/24/96 |
| Approved by: | H Anastos | Date: | 3-25-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 A.D HLA 3-25-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.61650 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5484 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.003 |
| Matrix | Absorbance of Sample | 0.1 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004171 | µg of Cyanide | 0.675 |
| Instrument Code | µg CN- /g | 1.09E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/21/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.09E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 3.08E+00 |

Data Entry by: Leslie Cowles Date: 03/24/96

Approved by: H Anastin Date: 3-25-96

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 A.O Hea 3.25.96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.84430 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5484 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.003 |
| Matrix | Absorbance of Sample | 0.148 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004171 DUP | µg of Cyanide | 1.010 |
| Instrument Code | µg CN- /g | 1.20E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/21/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.20E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.25E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Combs | Date: | 03/24/96 |
| Approved by: | H Anastas | Date: | 3-25-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

103 A.O NEA 3.25.96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ SPIKE, STANDARD

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5484 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.003 | |
| Matrix | Absorbance of Sample+Spike | 0.436 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S95T004171 | µg of CN- in Sample+Spike | 3.018 | ERR |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 0.6750 | |
| JT KNIGHT | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/21/96 | | | |
| Time | Spike % Recovery | 102.4% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | Jack Cook | Date: | 03/24/96 |
| Approved by: | H Anastor | Date: | 3.25.96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 A.D Hea 3.25.96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| SOLID | Sample Weight in grams (SS) | 0.91250 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5484 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.003 |
| Matrix | Absorbance of Sample | 0.269 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004172 | µg of Cyanide | 1.853 |
| Instrument Code | µg CN- /g | 2.03E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/21/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 2.03E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.08E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Cooper | Date: | 03/24/96 |
| Approved by: | H Anaston | Date: | 3.25.96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 A.O HLA 3.25.96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.62230 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5484 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.003 |
| Matrix | Absorbance of Sample | 0.155 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004172 DUP | µg of Cyanide | 1.058 |
| Instrument Code | µg CN- /g | 1.70E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/21/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |

| | | | |
|---|---|---|---|
| | Cyanide Concentration (µg/g) | 1.70E+01 | Detection Limit µg CN- / g |
| Calibration Date | | | |
| 02/23/96 | | | 3.05E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Leish Cook | Date: | 03/24/96 |
| Approved by: | H Anastos | Date: | 3.25.96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) SPIKE, STANDARD

| | | SPIKE | NA |
|---|---|---|---|
| Type | | | |
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5484 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.003 | |
| Matrix | Absorbance of Sample+Spike | 0.559 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S95T004172 | µg of CN- in Sample+Spike | 3.875 | ERR |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 1.8530 | |
| JT KNIGHT | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/21/96 | | | |
| Time | Spike % Recovery | 88.4% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | Frank Cook | Date: | 03/24/96 |
| Approved by: | H Anastos | Date: | 3-25-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5484 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.001 |
| Matrix | Absorbance of Standard | | 0.715 |
| SOLID | Y-Intercept Value | | 0.007237 |
| Sample # | Slope Value | | 0.147420 |
| CCV | µg of CN in Standard | ERR | 4.794 |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | | | |
| JT KNIGHT | | | |
| Date | µg of CN-/mL in Standard | ERR | 959 |
| 03/21/96 | | | |
| Time | Standard % Recovery | | 104.8% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/25/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | Jenik Coutts | Date: | 03/24/96 |
| Approved by: | H Anastos | Date: | 3-25-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| BLANK | | |
| Work List | | |
| 5484 | Blank Weight in g (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.001 |
| Matrix | Digest Dilution Factor | 1 |
| SOLID | Y-Intercept Value | 0.007237 |
| Sample # | Slope Value | 0.147420 |
| CCB | µg of Cyanide | -0.042 |
| Instrument Code | µg CN- /g | -8.46E-03 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| JT KNIGHT | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/21/96 | Detection Limit = ~~0.19~~ .055 µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / g |
|---|---|---|---|
| Calibration Date | | | |
| 02/25/96 | | | ~~3.80E-02~~ 1.10e-2 3/24/96 |

| | | | |
|---|---|---|---|
| Data Entry by: | Frank Conti | Date: | 03/24/96 |
| Approved by: | H Anasto | Date: | 3-25-96 |

Form 695102C1 Rev. 1.7

# LABCORE Data Entry Template for Worklist# 5485

**Analyst:** jtk **Instrument:** CN01 **Book #** 71N8G

**Method:** LA-695-103 Rev/Mod A-0

**Worklist Comment:** BY-106 FOR CYANIDE RTS!

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | CN-01 | SOLID | 1 | <3.80e-2 | N/A | ug/g |
| | | 2 | STD | | | | CN-01 | SOLID | 915 | 896 | N/A | ug/g |
| 95000229 | BY-106 | 3 | SAMPLE | S95T004173 | 0 | | CN-01 | SOLID | N/A | 1.29e+1 | 2.94e+0 | ug/g |
| 95000229 | BY-106 | 4 | DUP | S95T004173 | 0 | | CN-01 | SOLID | 1.29e+1 | 1.36e+1 | N/A | ug/g |
| 95000229 | BY-106 | 5 | SPK | S95T004173 | 0 | | CN-01 | SOLID | 100 | 102.1 | N/A | ug/g |
| 95000229 | BY-106 | 6 | SAMPLE | S95T004174 | 0 | | CN-01 | SOLID | N/A | 6.13e+0 | 2.84e+0 | ug/g |
| 95000229 | BY-106 | 7 | DUP | S95T004174 | 0 | | CN-01 | SOLID | 6.13e+0 | 6.28e+0 | N/A | ug/g |
| 95000229 | BY-106 | 8 | SPK | S95T004174 | 0 | | CN-01 | SOLID | 100 | 104.2 | N/A | ug/g |
| | | 9 | CCV | | | | CN-01 | SOLID | 915 | 957 | N/A | ug/g |
| | | 10 | CCB | | | | CN-01 | SOLID | 1 | <1.10e-2 | N/A | ug/g |

## Final page for worklist # 5485

for JT Knight, Jr
H Anastos 4-1-96
**Analyst Signature** **Date**

Jessica Conlin 3/31/96
**Analyst Signature** **Date**

Approved by
H Anastos 4-1-96

*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.*

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) SPIKE, STANDARD

LE 3/31/96

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5485 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.004 |
| Matrix | Absorbance of Standard | | 0.647 |
| SOLID | Y-Intercept Value | | 0.000194 |
| Sample # | Slope Value | | 0.143424 |
| 71N8G | µg of CN in Standard | | 4.482 |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | | | |
| JT KNIGHT JR | | | |
| Date | µg of CN-/mL in Standard | | 896 |
| 03/31/96 | | | |
| Time | Standard % Recovery | | 98.0% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | Jennifer Andrews | Date: | 03/31/96 |
| Approved by: | HAnaston | Date: | 4-1-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) BLANK, LIQUID, SOLID

LE 3/31/96

| Type | | SAMPLE |
|---|---|---|
| BLANK | | |
| Work List | | |
| 5485 | Blank Weight in g (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.004 |
| Matrix | Digest Dilution Factor | 1 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| BLNK | µg of Cyanide | 0.027 |
| Instrument Code | µg CN- /g | 5.31E-03 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/29/96 | Detection Limit = 0.19 µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / g |
|---|---|---|---|
| Calibration Date | | | |
| 02/23/96 | | | 3.80E-02 |

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Conklin | Date: | 03/31/96 |
| Approved by: | H Anastos | Date: | 4-1-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103(A-0) BLANK, LIQUID, SOLID

LE 3/31/96

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.64600 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5485 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.004 |
| Matrix | Absorbance of Sample | 0.124 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004173 | µg of Cyanide | 0.835 |
| Instrument Code | µg CN- /g | 1.29E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/29/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.29E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.94E+00 |

Data Entry by: Linda Conlin Date: 03/31/96

Approved by: H Anastos Date: 4-1-96

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) BLANK, LIQUID, SOLID

ic. 3/31/96

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.69470 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5485 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.004 |
| Matrix | Absorbance of Sample | 0.14 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004173 DUP | µg of Cyanide | 0.947 |
| Instrument Code | µg CN- /g | 1.36E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/29/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.36E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.73E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Terrie Conk | Date: | 03/31/96 |
| Approved by: | H Anastn | Date: | 4-1-96 |

Form 695102C1 Rev. 1.7

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) SPIKE, STANDARD

LC 3/31/96

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5485 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.004 | |
| Matrix | Absorbance of Sample+Spike | 0.459 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S95T004173 | µg of CN- in Sample+Spike | 3.171 | ERR |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 0.8350 | |
| JT KNIGHT JR | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/31/96 | | | |
| Time | Spike % Recovery | 102.1% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | Freda Conk | Date: | 03/31/96 |
| Approved by: | H Anastos | Date: | 4-4-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-C) BLANK, LIQUID, SOLID

LE 3/31/96

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.66870 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5485 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.004 |
| Matrix | Absorbance of Sample | 0.063 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004174 | µg of Cyanide | 0.410 |
| Instrument Code | µg CN- /g | 6.13E+00 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/29/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 6.13E+00 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.84E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Jessica Chowkin | Date: | 03/31/96 |
| Approved by: | H Anastin | Date: | 4-1-96 |

Form 695102C1 Rev. 1.7

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E=0)~~ 103(A-0) BLANK, LIQUID, SOLID

ie 3/31/96

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.95280 |
| **Work List** | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5485 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| **Test Code** | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.004 |
| **Matrix** | Absorbance of Sample | 0.09 |
| SOLID | Y-Intercept Value | 0.000194 |
| **Sample #** | Slope Value | 0.143424 |
| S95T004174 DUP | µg of Cyanide | 0.598 |
| **Instrument Code** | µg CN- /g | 6.28E+00 |
| SPEC 301 | | |
| **Analyst** | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| **Date** | | |
| 03/29/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| **Time** | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 6.28E+00 |
| **Calibration Date** | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 1.99E+00 |

Data Entry by: Linda Conti Date: 03/31/96

Approved by: J Anastas Date: 4-1-96

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103(A-0) SPIKE, STANDARD

LC 3/31/96

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5485 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.004 | |
| Matrix | Absorbance of Sample+Spike | 0.405 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S95T004174 | µg of CN- in Sample+Spike | 2.795 | ERR |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 0.4100 | |
| JT KNIGHT JR | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/31/96 | | | |
| Time | Spike % Recovery | 104.2% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | Jessica Cook | Date: | 03/31/96 |
| Approved by: | H Anastas | Date: | 4-1-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-D) SPIKE, STANDARD

VC 3/31/96

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5485 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.003 |
| Matrix | Absorbance of Standard | | 0.716 |
| SOLID | Y-Intercept Value | | 0.007237 |
| Sample # | Slope Value | | 0.147420 |
| CCV | µg of CN in Standard | | 4.787 |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | | | |
| JT KNIGHT JR | | | |
| Date | µg of CN-/mL in Standard | | 957 |
| 03/31/96 | | | |
| Time | Standard % Recovery | | 104.6% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/25/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | Jessica Cook | Date: | 03/31/96 |
| Approved by: | H Anderson | Date: | 4-1-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) BLANK, LIQUID, SOLID

LC 3/31/96

| Type | | SAMPLE |
|---|---|---|
| BLANK | | |
| Work List | | |
| 5485 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.003 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.007237 |
| Sample # | Slope Value | 0.147420 |
| CCB | µg of Cyanide | -0.029 |
| Instrument Code | µg CN- /mL | -5.75E-03 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/29/96 | Detection Limit = 0.055 µg Cyanide / SS (mL) * Digest Dilution Factor | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / mL |
|---|---|---|---|
| Calibration Date | | | |
| 02/25/96 | | | 1.10E-02 |

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Combs | Date: | 03/31/96 |
| Approved by: | H Anastas | Date: | 4-1-96 |

Form 695102C1 Rev. 1.7

# LABCORE Data Entry Template for Worklist# 5486

**Analyst:** JTK **Instrument:** CN01 _____ **Book #** 7/N8G

**Method:** LA-695-103 Rev/Mod A-0

**Worklist Comment:** BY-106 FOR CYANIDE RTS!

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | CN-01 | SOLID | 1 | <3.8e-2 ~~<1.10e-2~~ | N/A | ug/g |
| | | 2 | STD | | | | CN-01 | SOLID | 915 | 1005 | N/A | ug/g |
| 95000229 | BY-106 | 3 | SAMPLE | S95T004175 | 0 | | CN-01 | SOLID | N/A | 5.47 | 3.12 | ug/g |
| 95000229 | BY-106 | 4 | DUP | S95T004175 | 0 | | CN-01 | SOLID | 5.47 | 6.61 | N/A | ug/g |
| 95000229 | BY-106 | 5 | SPK | S95T004175 | 0 | | CN-01 | SOLID | 100 | 107.3 | N/A | ug/g |
| 95000229 | BY-106 | 6 | SAMPLE | S95T004176 | 0 | | CN-01 | SOLID | N/A | 1.32e1 | 2.70 | ug/g |
| 95000229 | BY-106 | 7 | DUP | S95T004176 | 0 | | CN-01 | SOLID | 1.32e1 | 1.38e1 | N/A | ug/g |
| 95000229 | BY-106 | 8 | SPK | S95T004176 | 0 | | CN-01 | SOLID | 100 | 105.2 | N/A | ug/g |
| | | 9 | CCV | | | | CN-01 | SOLID | 915 | 884 | N/A | ug/g |
| | | 10 | CCB | | | | CN-01 | SOLID | 1 | <1.10e-2 | N/A | ug/g |

## Final page for worklist # 5486

3-20-96
**Analyst Signature** **Date**

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

Approved by H Anastos 3-22-96

*Data Entry Comments:* Blank value corrected in LabCore. HLA 3-22-96

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

WHC QCHISTORY TABLE EDIT SCREEN

Sample# Assc Y Sample ID
Group# Customer
Worklist# 5486 WL Comment BY-106 FOR CYANIDE RTS!

| Test | Matrx | Type | Actual | Found | Yield | STAT | AnalDate | User |
|---|---|---|---|---|---|---|---|---|
| CN-01 | SOLID | BLNK | 1 | <3.80e-2 | | TEXT | 03/20/96 1442 | jtk |
| CN-01 | SOLID | STD | 915 | 1005 | 109.8361 | NEW | 03/20/96 1442 | jtk |
| CN-01 | SOLID | DUP | 5.47 | 6.61 | 18.8742 | NEW | 03/20/96 1442 | jtk |
| CN-01 | SOLID | SPK | 100 | 107.3 | 107.3000 | NEW | 03/20/96 1442 | jtk |
| CN-01 | SOLID | DUP | 1.32e1 | 1.38e1 | 4.4444 | NEW | 03/20/96 1442 | jtk |
| CN-01 | SOLID | SPK | 100 | 105.2 | 105.2000 | NEW | 03/20/96 1442 | jtk |
| CN-01 | SOLID | CCV | 915 | 884 | 96.6120 | NEW | 03/20/96 1442 | jtk |
| CN-01 | SOLID | CCB | 1 | <1.10e-2 | | TEXT | 03/20/96 1442 | jtk |

Save(F12) End(F3)

Blank was corrected to show the MDL for EDTA method. Hla 3-22-96

WHC QCHISTORY TABLE EDIT SCREEN

Sample# Assc Y Sample ID
Group# Customer
Worklist# 5486 WL Comment BY-106 FOR CYANIDE RTS!

| Test | Matrx | Type | Actual | Found | Yield | STAT | AnalDate | User |
|---|---|---|---|---|---|---|---|---|
| CN-01 | SOLID | BLNK | 1 | <1.10e-2 | | TEXT | 03/20/96 1442 | jtk |
| CN-01 | SOLID | STD | 915 | 1005 | 109.8361 | NEW | 03/20/96 1442 | jtk |
| CN-01 | SOLID | DUP | 5.47 | 6.61 | 18.8742 | NEW | 03/20/96 1442 | jtk |
| CN-01 | SOLID | SPK | 100 | 107.3 | 107.3000 | NEW | 03/20/96 1442 | jtk |
| CN-01 | SOLID | DUP | 1.32e1 | 1.38e1 | 4.4444 | NEW | 03/20/96 1442 | jtk |
| CN-01 | SOLID | SPK | 100 | 105.2 | 105.2000 | NEW | 03/20/96 1442 | jtk |
| CN-01 | SOLID | CCV | 915 | 884 | 96.6120 | NEW | 03/20/96 1442 | jtk |
| CN-01 | SOLID | CCB | 1 | <1.10e-2 | | TEXT | 03/20/96 1442 | jtk |

Save(F12) End(F3)

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 A-0 BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| BLANK | | |
| Work List | | |
| 5486 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.004 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| BLANK | µg of Cyanide | 0.027 |
| Instrument Code | µg CN- /mL | 5.31E-03 |
| 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | 0.19 HLa 3-22-96 | |
| 03/20/96 | Detection Limit = ~~0.055~~ µg Cyanide / SS (mL) * Digest Dilution Factor | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / mL |
|---|---|---|---|
| Calibration Date | | | |
| 02/23/96 | | | ~~1.10E-02~~ 3.8e-2 HLa 3-22-96 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/21/96 |
| Approved by: | H Anastos | Date: | |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

103 A-D Hua 3-22-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5486 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.004 |
| Matrix | Absorbance of Standard | | 0.725 |
| LIQUID | Y-Intercept Value | | 0.000194 |
| Sample # | Slope Value | | 0.143424 |
| STD/71N8G | µg of CN in Standard | | 5.026 |
| Instrument Code | | | |
| 301 | | | |
| Analyst | | | |
| J. KNIGHT | | | |
| Date | µg of CN-/mL in Standard | | 1005 |
| 03/20/96 | | | |
| Time | Standard % Recovery | | 109.9% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/21/96 |
| Approved by: | H Anastor | Date: | 3/21/96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 A-D [illegible] 3-22-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.60941 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5486 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.004 |
| Matrix | Absorbance of Sample | 0.052 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S96T004175 | µg of Cyanide | 0.333 |
| Instrument Code | µg CN- /g | 5.47E+00 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/20/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 5.47E+00 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 3.12E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/21/96 |
| Approved by: | H Anestis | Date: | 3-21-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 A.O Nea 3-22-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.53628 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5486 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.004 |
| Matrix | Absorbance of Sample | 0.055 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S96T004175/DUP | µg of Cyanide | 0.354 |
| Instrument Code | µg CN- /g | 6.61E+00 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/20/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 6.61E+00 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 3.54E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/21/96 |
| Approved by: | H Anastas | Date: | 3-21-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

103 90 Hea 3.22.96

## CN- DETERMINATION : LA-695-102 ~~(E-0)~~ SPIKE, STANDARD

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5486 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.004 | |
| Matrix | Absorbance of Sample+Spike | 0.404 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S96T004175 | µg of CN- in Sample+Spike | 2.788 | ERR |
| Instrument Code | | | |
| 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 0.3330 | |
| J. KNIGHT | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/20/96 | | | |
| Time | Spike % Recovery | 107.3% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/21/96 |
| Approved by: | H Anastn | Date: | 3-21-96 |

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 AO Nea 3-27-96

## CN- DETERMINATION : LA-695-~~102 (E=0)~~ BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| SOLID | Sample Weight in grams (SS) | 0.70375 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5486 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.004 |
| Matrix | Absorbance of Sample | 0.137 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S96T004176 | µg of Cyanide | 0.926 |
| Instrument Code | µg CN- /g | 1.32E+01 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/20/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) 1.32E+01 | Detection Limit µg CN- / g |
| Calibration Date | | |
| 02/23/96 | | 2.70E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/21/96 |
| Approved by: | H. Anastn | Date: | 3/21/96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 A-D Hea 3-22-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| SOLID | Sample Weight in grams (SS) | 0.79819 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5486 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.004 |
| Matrix | Absorbance of Sample | 0.162 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S96T004176/DUP | µg of Cyanide | 1.100 |
| Instrument Code | µg CN- /g | 1.38E+01 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-intercept)] / Slope Value | |
| J. KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/20/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.38E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.38E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/21/96 |
| Approved by: | H Anderson | Date: | 3-21-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

103 A.D Hla 3.22.96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ SPIKE, STANDARD

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5486 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.004 | |
| Matrix | Absorbance of Sample+Spike | 0.482 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S96T004176 | µg of CN- in Sample+Spike | 3.331 | ERR |
| Instrument Code | | | |
| 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 0.9260 | |
| J. KNIGHT | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/20/96 | | | |
| Time | Spike % Recovery | 105.2% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/21/96 |
| Approved by: | J. Knight | Date: | 3/21/96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 A.O Hea 3.27.96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| | | SAMPLE |
|---|---|---|
| Type | | |
| BLANK | | |
| Work List | | |
| 5486 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.004 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.007237 |
| Sample # | Slope Value | 0.147420 |
| BLANK/CCB | µg of Cyanide | -0.022 |
| Instrument Code | µg CN- /mL | -4.39E-03 |
| 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/20/96 | Detection Limit = 0.055 µg Cyanide / SS (mL) * Digest Dilution Factor | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / mL |
|---|---|---|---|
| Calibration Date | | | |
| 02/25/96 | | | 1.10E-02 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/21/96 |
| Approved by: | H Anastn | Date: | 3-21-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

103 A-0 Hea 3-22-96

## CN- DETERMINATION : LA-695-102 (E-0) SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5486 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.004 |
| Matrix | Absorbance of Standard | | 0.663 |
| LIQUID | Y-Intercept Value | | 0.007237 |
| Sample # | Slope Value | | 0.147420 |
| STD/71N8G/CCV | µg of CN in Standard | | 4.421 |
| Instrument Code | | | |
| 301 | | | |
| Analyst | | | |
| J. KNIGHT | | | |
| Date | µg of CN-/mL in Standard | | 884 |
| 03/20/96 | | | |
| Time | Standard % Recovery | | 96.6% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/25/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/21/96 |
| Approved by: | H Anderson | Date: | 3-21-96 |

Form X2 Rev. 1.0

# LABCORE Data Entry Template for Worklist# 5487

**Analyst:** jtk **Instrument:** CN01 _____ **Book #** 71N8G

**Method:** LA-695-~~103~~ 102 Rev/Mod 103 A-0 HLA 3-25-96 le 3/28/96

**Worklist Comment:** BY-106 FOR CYANIDE RTS!

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | CN-01 | SOLID | 1 | $<3.80e^{-2}$ | N/A | ug/g |
| | | 2 | STD | | | | CN-01 | SOLID | 915 | 921 | N/A | ug/g |
| 95000229 | BY-106 | 3 | SAMPLE | S95T004177 | 0 | | CN-01 | SOLID | N/A | $1.87e^{+1}$ | $2.04e^{+0}$ | ug/g |
| 95000229 | BY-106 | 4 | DUP | S95T004177 | 0 | | CN-01 | SOLID | $1.87e^{+1}$ | $2.06e^{+1}$ | N/A | ug/g |
| 95000229 | BY-106 | 5 | SPK | S95T004177 | 0 | | CN-01 | SOLID | 100 | 101.2 | N/A | ug/g |
| 95000229 | BY-106 | 6 | SAMPLE | S95T004178 | 0 | | CN-01 | SOLID | N/A | $1.56e^{+1}$ | $2.73e^{+0}$ | ug/g |
| 95000229 | BY-106 | 7 | DUP | S95T004178 | 0 | | CN-01 | SOLID | $1.56e^{+1}$ | $1.44e^{+1}$ | N/A | ug/g |
| 95000229 | BY-106 | 8 | SPK | S95T004178 | 0 | | CN-01 | SOLID | 100 | 102.7 | N/A | ug/g |
| | | 9 | CCV | | | | CN-01 | SOLID | 915 | 1000 | N/A | ug/g |
| | | 10 | CCB | | | | CN-01 | SOLID | 1 | ~~$<3.80e^{-2}$~~ $<1.10e^{-2}$ le 3/23/96 | N/A | ug/g |

## Final page for worklist # 5487

for JTKnight, Jr

H Anastor 3-25-96
**Analyst Signature** **Date**

Linda Conlin 3/24/96
**Analyst Signature** **Date**

Approved by H Anastor 3-25-96

*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.*

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 A-D BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| BLANK | | |
| Work List | | |
| 5487 | Blank Weight in g (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.003 |
| Matrix | Digest Dilution Factor | 1 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| BLANK | µg of Cyanide | 0.020 |
| Instrument Code | µg CN- /g | 3.91E-03 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| JT KNIGHT | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/21/96 | Detection Limit = 0.19 µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / g |
|---|---|---|---|
| Calibration Date | | | |
| 02/23/96 | | | 3.80E-02 |

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Conlin | Date: | 03/23/96 |
| Approved by: | H Anastas | Date: | 3-25-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

103 A-0

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5487 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.003 |
| Matrix | Absorbance of Standard | | 0.664 |
| SOLID | Y-Intercept Value | | 0.000194 |
| Sample # | Slope Value | | 0.143424 |
| 71N8G | µg of CN in Standard | | 4.607 |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | | | |
| JT KNIGHT | | | |
| Date | µg of CN-/mL in Standard | | 921 |
| 03/21/96 | | | |
| Time | Standard % Recovery | | 100.7% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | Frank Cook | Date: | 03/23/96 |
| Approved by: | H Anaston | Date: | 3-25-96 |

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

103 A-0 HRa 3-25-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.93210 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5487 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.003 |
| Matrix | Absorbance of Sample | 0.253 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004177 | µg of Cyanide | 1.742 |
| Instrument Code | µg CN- /g | 1.87E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/21/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.87E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.04E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Leslie Cowles | Date: | 03/23/96 |
| Approved by: | H Anderson | Date: | 3-25-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

103 A-0 HRA 3-25-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.76939 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5487 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.003 |
| Matrix | Absorbance of Sample | 0.231 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004177 DUP | µg of Cyanide | 1.588 |
| Instrument Code | µg CN- /g | 2.06E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/21/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 2.06E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.47E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Coutts | Date: | 03/23/96 |
| Approved by: | H Anastos | Date: | 3-25-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

103 A-0 HLa 3.25.96

## CN- DETERMINATION : LA-695-~~102 (E=0)~~ SPIKE, STANDARD

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5487 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.003 | |
| Matrix | Absorbance of Sample+Spike | 0.585 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S95T004177 | µg of CN- in Sample+Spike | 4.057 | ERR |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 1.7420 | |
| JT KNIGHT | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/21/96 | | | |
| Time | Spike % Recovery | 101.2% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | Jenis Cook | Date: | 03/23/96 |
| Approved by: | H Anastas | Date: | 3-25-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

103 A.O HEA 3.25.96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.69720 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5487 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.003 |
| Matrix | Absorbance of Sample | 0.159 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004178 | µg of Cyanide | 1.086 |
| Instrument Code | µg CN- /g | 1.56E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/21/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.56E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.73E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Lenita Combs | Date: | 03/23/96 |
| Approved by: | H Anastor | Date: | 3.25.96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

103 AD HLa 3-25-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.80230 |
| **Work List** | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5487 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| **Test Code** | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.003 |
| **Matrix** | Absorbance of Sample | 0.169 |
| SOLID | Y-Intercept Value | 0.000194 |
| **Sample #** | Slope Value | 0.143424 |
| S95T004178 DUP | µg of Cyanide | 1.156 |
| **Instrument Code** | µg CN- /g | 1.44E+01 |
| SPEC 301 | | |
| **Analyst** | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| **Date** | | |
| 03/21/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| **Time** | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.44E+01 |
| **Calibration Date** | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.37E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Leah Combs | Date: | 03/23/96 |
| Approved by: | H Anaston | Date: | 3-25-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

103 A-D HLA 3.25.96

## CN- DETERMINATION : LA-695-~~102 (E=0)~~ SPIKE, STANDARD

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5487 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.003 | |
| Matrix | Absorbance of Sample+Spike | 0.496 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S95T004178 | µg of CN- in Sample+Spike | 3.436 | ERR |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 1.0860 | |
| JT KNIGHT | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/21/96 | | | |
| Time | Spike % Recovery | 102.7% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | Frank Cook | Date: | 03/23/96 |
| Approved by: | H Anaston | Date: | 3.25.96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

## CN- DETERMINATION : LA-695-102 (E-0) SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5487 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.001 |
| Matrix | Absorbance of Standard | | 0.745 |
| SOLID | Y-Intercept Value | | 0.007237 |
| Sample # | Slope Value | | 0.147420 |
| 3/23/96 ~~71N8G~~ CCV | µg of CN in Standard | | 4.998 |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | | | |
| JT KNIGHT | | | |
| Date | µg of CN-/mL in Standard | | 1000 |
| 03/21/96 | | | |
| Time | Standard % Recovery | | 109.2% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/25/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | | Date: | 03/23/96 |
| Approved by: | | Date: | 3.25.96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| BLANK | | |
| Work List | | |
| 5487 | Blank Weight in g (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.001 |
| Matrix | Digest Dilution Factor | 1 |
| SOLID | Y-Intercept Value | 0.007237 |
| Sample # | Slope Value | 0.147420 |
| CCB | µg of Cyanide | -0.042 |
| Instrument Code | µg CN- /g | -8.46E-03 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| JT KNIGHT | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/21/96 | Detection Limit = ~~0.19~~ .055 µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / g |
|---|---|---|---|
| Calibration Date | | | |
| 02/25/96 | | | ~~3.80E-02~~ 1.10e-2 |

Data Entry by: Frank Conl. Date: 03/23/96

Approved by: H Anastos Date: 3-25-96

Form 695102C1 Rev. 1.7

# LABCORE Data Entry Template for Worklist# 5488

**Analyst:** JTK **Instrument:** CN01 **Book #** 71N8G

**Method:** LA-695-103 Rev/Mod A-0

**Worklist Comment:** BY-106 FOR CYANIDE RTS!

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | CN-01 | SOLID | 1 | $3.8e^{-2}$ | N/A | ug/g |
| | | 2 | STD | | | | CN-01 | SOLID | 915 | 991 | N/A | ug/g |
| 95000229 | BY-106 | 3 | SAMPLE | S96T000104 | 0 | | CN-01 | SOLID | N/A | $1.08e^{1}$ | 6.04 | ug/g |
| 95000229 | BY-106 | 4 | DUP | S96T000104 | 0 | | CN-01 | SOLID | $1.08e^{1}$ | $1.18e^{1}$ | N/A | ug/g |
| 95000229 | BY-106 | 5 | SPK | S96T000104 | 0 | | CN-01 | SOLID | 100 | 101.2 | N/A | ug/g |
| 95000229 | BY-106 | 6 | SAMPLE | S96T000105 | 0 | | CN-01 | SOLID | N/A | $1.99e^{1}$ | 8.25 | ug/g |
| 95000229 | BY-106 | 7 | DUP | S96T000105 | 0 | | CN-01 | SOLID | $1.99e^{1}$ | $2.12e^{1}$ | N/A | ug/g |
| 95000229 | BY-106 | 8 | SPK | S96T000105 | 0 | | CN-01 | SOLID | 100 | 107.9 | N/A | ug/g |
| | | 9 | CCV | | | | CN-01 | SOLID | 915 | 1006 | N/A | ug/g |
| | | 10 | CCB | | | | CN-01 | SOLID | 1 | $<1.10e^{-2}$ | N/A | ug/g |

## Final page for worklist # 5488

JTKnight 3-19-96
**Analyst Signature** **Date**

RHStub 3/20/96
**Analyst Signature** **Date**

Approved by H Anastos 3/21/96

*Data Entry Comments:* CCB Corrected in LabCore. HEA 3/21/96

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

WHC QCHISTORY TABLE EDIT SCREEN

Sample# Assc Y Sample ID
Group# Customer
Worklist# 5488 WL Comment BY-106 FOR CYANIDE RTS!

| Test | Matrx | Type | Actual | Found | Yield | STAT | AnalDate | User |
|---|---|---|---|---|---|---|---|---|
| CN-01 | SOLID | BLNK | 1 | 3.82e-2 | 3.8200e-002 | NEW | 03/19/96 1002 | jtk |
| CN-01 | SOLID | STD | 915 | 991 | 108.3060 | NEW | 03/19/96 1002 | jtk |
| CN-01 | SOLID | DUP | 1.08e1 | 1.18e1 | 8.8496 | NEW | 03/19/96 1002 | jtk |
| CN-01 | SOLID | SPK | 100 | 101.2 | 101.2000 | NEW | 03/19/96 1002 | jtk |
| CN-01 | SOLID | DUP | 1.99e1 | 2.12e1 | 6.3260 | NEW | 03/19/96 1002 | jtk |
| CN-01 | SOLID | SPK | 100 | 107.9 | 107.9000 | NEW | 03/19/96 1002 | jtk |
| CN-01 | SOLID | CCV | 915 | 1006 | 109.9454 | NEW | 03/19/96 1002 | jtk |
| CN-01 | SOLID | CCB | 2 | <1.10e-2 | | TEXT | 03/19/96 1002 | jtk |

Save(F12) End(F3)

Changed by HLA 3-21-96
Actual blank-CCB changed to 1.

WHC QCHISTORY TABLE EDIT SCREEN

Sample# Assc Y Sample ID
Group# Customer
Worklist# 5488 WL Comment BY-106 FOR CYANIDE RTS!

| Test | Matrx | Type | Actual | Found | Yield | STAT | AnalDate | User |
|---|---|---|---|---|---|---|---|---|
| CN-01 | SOLID | BLNK | 1 | 3.82e-2 | 3.8200e-002 | NEW | 03/19/96 1002 | jtk |
| CN-01 | SOLID | STD | 915 | 991 | 108.3060 | NEW | 03/19/96 1002 | jtk |
| CN-01 | SOLID | DUP | 1.08e1 | 1.18e1 | 8.8496 | NEW | 03/19/96 1002 | jtk |
| CN-01 | SOLID | SPK | 100 | 101.2 | 101.2000 | NEW | 03/19/96 1002 | jtk |
| CN-01 | SOLID | DUP | 1.99e1 | 2.12e1 | 6.3260 | NEW | 03/19/96 1002 | jtk |
| CN-01 | SOLID | SPK | 100 | 107.9 | 107.9000 | NEW | 03/19/96 1002 | jtk |
| CN-01 | SOLID | CCV | 915 | 1006 | 109.9454 | NEW | 03/19/96 1002 | jtk |
| CN-01 | SOLID | CCB | 1 | <1.10e-2 | | TEXT | 03/19/96 1002 | jtk |

Save(F12) End(F3)

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| | | SAMPLE |
|---|---|---|
| Type | | |
| BLANK | | |
| Work List | | |
| 5488 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.004 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| BLNK | µg of Cyanide | 0.027 |
| Instrument Code | µg CN- /mL | 5.31E-03 |
| 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | 0.19 HLa 3 20-96 | |
| 03/19/96 | Detection Limit = ~~0.055~~ µg Cyanide / SS (mL) * Digest Dilution Factor | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / mL |
|---|---|---|---|
| Calibration Date | | | |
| 02/23/96 | | | ~~1.10E-02~~ 3.8e-2 HLa 3.20.96 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | H Anastin | Date: | 3-20-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

## CN- DETERMINATION : LA-695-102 (E-0) SPIKE, STANDARD

| | | NA | STANDARD |
|---|---|---|---|
| Type | | | |
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5488 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.004 |
| Matrix | Absorbance of Standard | | 0.715 |
| LIQUID | Y-Intercept Value | | 0.000194 |
| Sample # | Slope Value | | 0.143424 |
| STD/71N8G | µg of CN in Standard | | 4.956 |
| Instrument Code | | | |
| 301 | | | |
| Analyst | | | |
| J. KNIGHT | | | |
| Date | µg of CN-/mL in Standard | | 991 |
| 03/19/96 | | | |
| Time | Standard % Recovery | | 108.3% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | W Anastor | Date: | 3-20-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| SOLID | Sample Weight in grams (SS) | 0.31445 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5488 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.004 |
| Matrix | Absorbance of Sample | 0.053 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S96T000104 | µg of Cyanide | 0.340 |
| Instrument Code | µg CN- /g | 1.08E+01 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/19/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.08E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 6.04E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | H Anastor | Date: | 3-20-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| SOLID | Sample Weight in grams (SS) | 0.50210 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5488 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.004 |
| Matrix | Absorbance of Sample | 0.089 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S96T000104/DUP | µg of Cyanide | 0.591 |
| Instrument Code | µg CN- /g | 1.18E+01 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/19/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.18E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 3.78E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | H Anastor | Date: | 3-20-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

## CN- DETERMINATION : LA-695-102 (E-0) SPIKE, STANDARD

| | | SPIKE | NA |
|---|---|---|---|
| Type | | | |
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5488 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.004 | |
| Matrix | Absorbance of Sample+Spike | 0.385 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S96T000104 | µg of CN- in Sample+Spike | 2.655 | ERR |
| Instrument Code | | | |
| 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 0.3400 | |
| J. KNIGHT | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/19/96 | | | |
| Time | Spike % Recovery | 101.2% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | H Anastin | Date: | 3-20-96 |

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.23026 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5488 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.004 |
| Matrix | Absorbance of Sample | 0.07 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S96T000105 | µg of Cyanide | 0.459 |
| Instrument Code | µg CN- /g | 1.99E+01 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/19/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.99E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 8.25E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | HAnastr | Date: | 3-20-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

## CN- DETERMINATION : LA-695-102 (E-0) SPIKE, STANDARD

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5488 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.004 | |
| Matrix | Absorbance of Sample+Spike | 0.424 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S96T000105 | µg of CN- in Sample+Spike | 2.927 | ERR |
| Instrument Code | | | |
| 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 0.4590 | |
| J. KNIGHT | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/19/96 | | | |
| Time | Spike % Recovery | 107.9% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | HAnasti | Date: | 3-20-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

## CN- DETERMINATION : LA-695-102 (E-0) SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5488 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.007 |
| Matrix | Absorbance of Standard | | 0.756 |
| LIQUID | Y-Intercept Value | | 0.007237 |
| Sample # | Slope Value | | 0.147420 |
| STD/71N8G/CCV | µg of CN in Standard | | 5.032 |
| Instrument Code | | | |
| 301 | | | |
| Analyst | | | |
| J. KNIGHT | | | |
| Date | µg of CN-/mL in Standard | | 1006 |
| 03/19/96 | | | |
| Time | Standard % Recovery | | 110.0% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/25/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | H Anastn | Date: | 3-20-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| BLANK | | |
| Work List | | |
| 5488 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.007 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.007237 |
| Sample # | Slope Value | 0.147420 |
| BLNK/CCB | µg of Cyanide | -0.002 |
| Instrument Code | µg CN- /mL | -3.22E-04 |
| 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/19/96 | Detection Limit = 0.055 µg Cyanide / SS (mL) * Digest Dilution Factor | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / mL |
|---|---|---|---|
| Calibration Date | | | |
| 02/25/96 | | | 1.10E-02 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | H Anastn | Date: | 3-20-96 |

Form 695102C1 Rev. 1.7

# LABCORE Data Entry Template for Worklist# 5489

**Analyst:** JTK **Instrument:** CN01 _____ **Book #** 71N86

**Method:** LA-695-103 Rev/Mod A-0

**Worklist Comment:** BY-106 FOR CYANIDE RTS!

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | CN-01 | SOLID | 1 | <3.8e-2 | N/A | ug/g |
| | | 2 | STD | | | | CN-01 | SOLID | 915 | 981 | N/A | ug/g |
| 95000229 | BY-106 | 3 | SAMPLE | S96T000248 | 0 | | CN-01 | SOLID | N/A | 3.07e1 | 1.8 | ug/g |
| 95000229 | BY-106 | 4 | DUP | S96T000248 | 0 | | CN-01 | SOLID | 3.07e1 | 2.43e1 | N/A | ug/g |
| 95000229 | BY-106 | 5 | SPK | S96T000248 | 0 | | CN-01 | SOLID | 100 | 106.4 | N/A | ug/g |
| 95000229 | BY-106 | 6 | SAMPLE | S96T000249 | 0 | | CN-01 | SOLID | N/A | 1.57e1 | 2.64 | ug/g |
| 95000229 | BY-106 | 7 | DUP | S96T000249 | 0 | | CN-01 | SOLID | 1.57e1 | 1.47e1 | N/A | ug/g |
| 95000229 | BY-106 | 8 | SPK | S96T000249 | 0 | | CN-01 | SOLID | 100 | 103.0 | N/A | ug/g |
| | | 9 | CCV | | | | CN-01 | SOLID | 915 | 785 | N/A | ug/g |
| | | 10 | CCB | | | | CN-01 | SOLID | 1 | <1.10e-2 | N/A | ug/g |

## Final page for worklist # 5489

Analyst Signature 3/19/96 Date

Analyst Signature 3/20/96 Date

# 12482
Approved by H Anastor 3/21/96

*Data Entry Comments:* S96T000248 High RPD due to sample inhomogeniety.

*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.*

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5489 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.004 |
| Matrix | Absorbance of Standard | | 0.708 |
| LIQUID | Y-Intercept Value | | 0.000194 |
| Sample # | Slope Value | | 0.143424 |
| STD/71N8G | µg of CN in Standard | | 4.907 |
| Instrument Code | | | |
| 301 | | | |
| Analyst | | | |
| J. KNIGHT | | | |
| Date | µg of CN-/mL in Standard | | 981 |
| 03/19/96 | | | |
| Time | Standard % Recovery | | 107.3% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | H Anasto | Date: | 3-20-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| BLANK | | |
| Work List | | |
| 5489 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.004 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| BLNK | µg of Cyanide | 0.027 |
| Instrument Code | µg CN- /mL | 5.31E-03 |
| 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | 0.19 HLa 3.20-96 | |
| 03/19/96 | Detection Limit = ~~0.035~~ µg Cyanide / SS (mL) * Digest Dilution Factor | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / mL |
|---|---|---|---|
| Calibration Date | | | |
| 02/23/96 | | | ~~1.10E-02~~ 3.8e-2 HLa 3.20 96 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | HLnastro | Date: | 3-20-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| SOLID | Sample Weight in grams (SS) | 1.05662 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5489 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.004 |
| Matrix | Absorbance of Sample | 0.469 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S96T000248 | µg of Cyanide | 3.241 |
| Instrument Code | µg CN- /g | 3.07E+01 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/19/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 3.07E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 1.80E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | Wanato | Date: | 3-20-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 1.40049 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5489 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.004 |
| Matrix | Absorbance of Sample | 0.493 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S96T000248/dup | µg of Cyanide | 3.408 |
| Instrument Code | µg CN- /g | 2.43E+01 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/19/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 2.43E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 1.36E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | HAnastn | Date: | 3-20-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) SPIKE, STANDARD

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5489 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.004 | |
| Matrix | Absorbance of Sample+Spike | 0.818 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S96T000248 | µg of CN- in Sample+Spike | 5.674 | ERR |
| Instrument Code | | | |
| 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 3.2410 | |
| J. KNIGHT | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/19/96 | | | |
| Time | Spike % Recovery | 106.4% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | H Anastas | Date: | 3-20-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| SOLID | Sample Weight in grams (SS) | 0.72069 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5489 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.004 |
| Matrix | Absorbance of Sample | 0.166 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S96T000249 | µg of Cyanide | 1.128 |
| Instrument Code | µg CN- /g | 1.57E+01 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/19/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.57E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.64E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | HAnastio | Date: | 3-20-96 |

Form 695102C1 Rev. 1.7



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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| SOLID | Sample Weight in grams (SS) | 0.59266 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5489 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.004 |
| Matrix | Absorbance of Sample | 0.129 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S96T000249/dup | µg of Cyanide | 0.870 |
| Instrument Code | µg CN- /g | 1.47E+01 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/19/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.47E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 3.21E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | Hanaan | Date: | 3-20-96 |

Form 695102C1 Rev. 1.7



556

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) SPIKE, STANDARD

| | | SPIKE | NA |
|---|---|---|---|
| Type | | | |
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5489 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.004 | |
| Matrix | Absorbance of Sample+Spike | 0.504 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S96T000249 | µg of CN- in Sample+Spike | 3.485 | ERR |
| Instrument Code | | | |
| 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 1.1280 | |
| J. KNIGHT | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/19/96 | | | |
| Time | Spike % Recovery | 103.0% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | H Anastn | Date: | 3-20-96 |

Form X2 Rev. 1.0 537 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5489 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.004 |
| Matrix | Absorbance of Standard | | 0.590 |
| LIQUID | Y-Intercept Value | | 0.007237 |
| Sample # | Slope Value | | 0.147420 |
| STD/71N8G/CCV | µg of CN in Standard | | 3.926 |
| Instrument Code | | | |
| 301 | | | |
| Analyst | | | |
| J. KNIGHT | | | |
| Date | µg of CN-/mL in Standard | | 785 |
| 03/19/96 | | | |
| Time | Standard % Recovery | | 85.8% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/25/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | H Arnold | Date: | 3-20-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| BLANK | | |
| Work List | | |
| 5489 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.004 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.007237 |
| Sample # | Slope Value | 0.147420 |
| BLNK/CCB | µg of Cyanide | -0.022 |
| Instrument Code | µg CN- /mL | -4.39E-03 |
| 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| J. KNIGHT | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/19/96 | Detection Limit = 0.055 µg Cyanide / SS (mL) * Digest Dilution Factor | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / mL |
|---|---|---|---|
| Calibration Date | | | |
| 02/25/96 | | | 1.10E-02 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/20/96 |
| Approved by: | J. Anastn | Date: | 3-20-96 |

Form 695102C1 Rev. 1.7

# LABCORE Data Entry Template for Worklist# 7000

**Analyst:** R. McCann **Instrument:** CN01 _____ **Book #** 7108-G

**Method:** LA-695-103 Rev/Mod A-O

**Worklist Comment:** BY-106 CN Reruns Use 0.5mL sample size.

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | CN-01 | SOLID | 1 | ~~<1.10e-2~~ <3.8e-2 | N/A | ug/g |
| | | 2 | STD | | | | CN-01 | SOLID | 915 | 892 | N/A | ug/g |
| 95000229 | BY-106 | 3 | SAMPLE | S95T004167 | 0 | | CN-01 | SOLID | N/A | 1.70 e1 | 3.40 | ug/g |
| 95000229 | BY-106 | 4 | DUP | S95T004167 | 0 | | CN-01 | SOLID | 1.70 e1 | 1.85 e1 | N/A | ug/g |
| 95000229 | BY-106 | 5 | SPK | S95T004167 | 0 | | CN-01 | SOLID | 100 | ~~97.2~~ 97.2 | N/A | ug/g |
| 95000229 | BY-106 | 6 | SAMPLE | S95T004168 | 0 | | CN-01 | SOLID | N/A | 1.80 e1 | 3.09 | ug/g |
| 95000229 | BY-106 | 7 | DUP | S95T004168 | 0 | | CN-01 | SOLID | 1.80 e1 | 1.73 e1 | N/A | ug/g |
| 95000229 | BY-106 | 8 | SPK | S95T004168 | 0 | | CN-01 | SOLID | RS ~~89.6~~ 100 | 89.6 | N/A | ug/g |
| | | 9 | CCV | | | | CN-01 | SOLID | 915 | ~~86~~ 861 | N/A | ug/g |
| | | 10 | CCB | | | | CN-01 | SOLID | 1 | <1.10e-2 | N/A | ug/g |

## Final page for worklist # 7000

R. McCann 3/29/96
**Analyst Signature** **Date**

[illegible] 3/29/96
**Analyst Signature** **Date**

#12649
Approved by H Anastis 4-1-96

*Data Entry Comments:* Sample result corrected in LabCre. 4-1-96 HA

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

WHC QCHISTORY TABLE EDIT SCREEN

Sample# Assc Y Sample ID
Group# Customer
Worklist# 7000 WL Comment BY-106 CN Reruns Use 0.5mL sample size.

| Test | Matrx | Type | Actual | Found | Yield | STAT | AnalDate | User |
|---|---|---|---|---|---|---|---|---|
| CN-01 | SOLID | BLNK | 1 | <1.10e-2 | | TEXT | 03/29/96 1327 | pjm |
| CN-01 | SOLID | STD | 915 | 892 | 97.4863 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | DUP | 1.70 | 1.85e1 | 166.3366 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | SPK | 100 | 97.2 | 97.2000 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | DUP | 1.80e1 | 1.73e1 | 3.9660 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | SPK | 100 | 89.6 | 89.6000 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | CCV | 915 | 861 | 94.0984 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | CCB | 1 | <1.10e-2 | | TEXT | 03/29/96 1327 | pjm |

Save(F12) End(F3)

Blnk should be $<3.8e^{-2}$
HLa 4-1-96

WHC QCHISTORY TABLE EDIT SCREEN

Sample# Assc Y Sample ID
Group# Customer
Worklist# 7000 WL Comment BY-106 CN Reruns Use 0.5mL sample size.

| Test | Matrx | Type | Actual | Found | Yield | STAT | AnalDate | User |
|---|---|---|---|---|---|---|---|---|
| CN-01 | SOLID | BLNK | 1 | <3.80e-2 | | TEXT | 03/29/96 1327 | pjm |
| CN-01 | SOLID | STD | 915 | 892 | 97.4863 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | DUP | 1.70 | 1.85e1 | 166.3366 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | SPK | 100 | 97.2 | 97.2000 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | DUP | 1.80e1 | 1.73e1 | 3.9660 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | SPK | 100 | 89.6 | 89.6000 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | CCV | 915 | 861 | 94.0984 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | CCB | 1 | <1.10e-2 | | TEXT | 03/29/96 1327 | pjm |

Save(F12) End(F3)

Blnk changed to $<3.8e^{-2}$.

& Dup results Actual should be $1.70e^{1}$.

HLa 4-1-96

WHC QCHISTORY TABLE EDIT SCREEN

Sample# Assc Y Sample ID
Group# Customer
Worklist# 7000 WL Comment BY-106 CN Reruns Use 0.5mL sample size.

| Test | Matrx | Type | Actual | Found | Yield | STAT | AnalDate | User |
|---|---|---|---|---|---|---|---|---|
| CN-01 | SOLID | BLNK | 1 | <3.80e-2 | | TEXT | 03/29/96 1327 | pjm |
| CN-01 | SOLID | STD | 915 | 892 | 97.4863 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | DUP | 1.70e1 | 1.85e1 | 166.3366 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | SPK | 100 | 97.2 | 97.2000 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | DUP | 1.80e1 | 1.73e1 | 3.9660 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | SPK | 100 | 89.6 | 89.6000 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | CCV | 915 | 861 | 94.0984 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | CCB | 1 | <1.10e-2 | | TEXT | 03/29/96 1327 | pjm |

Save(F12) End(F3)

Dup result for ACTUAL changed to 1.70e1
yield should be 8.45
HEA 4-1-96

WHC QCHISTORY TABLE EDIT SCREEN

Sample# Assc Y Sample ID
Group# Customer
Worklist# 7000 WL Comment BY-106 CN Reruns Use 0.5mL sample size.

| Test | Matrx | Type | Actual | Found | Yield | STAT | AnalDate | User |
|---|---|---|---|---|---|---|---|---|
| CN-01 | SOLID | BLNK | 1 | <3.80e-2 | | TEXT | 03/29/96 1327 | pjm |
| CN-01 | SOLID | STD | 915 | 892 | 97.4863 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | DUP | 1.70e1 | 1.85e1 | 8.4500 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | SPK | 100 | 97.2 | 97.2000 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | DUP | 1.80e1 | 1.73e1 | 3.9660 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | SPK | 100 | 89.6 | 89.6000 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | CCV | 915 | 861 | 94.0984 | NEW | 03/29/96 1327 | pjm |
| CN-01 | SOLID | CCB | 1 | <1.10e-2 | | TEXT | 03/29/96 1327 | pjm |

Save(F12) End(F3)

Dup yield changed to 8.45
HLa 4-1-96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 A-0 HLA 4-1-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| BLANK | | |
| Work List | | |
| 7000 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.003 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| BLNK | µg of Cyanide | 0.020 |
| Instrument Code | µg CN- /mL | 3.91E-03 |
| 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| PJ MCOWN | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | 0.19 HLA 4-1-96 | |
| 03/29/96 | Detection Limit = ~~0.055~~ µg Cyanide / SS (mL) * Digest Dilution Factor | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / mL |
|---|---|---|---|
| Calibration Date | | | |
| 02/23/96 | | | ~~1.10E-02~~ $3.8e^{-2}$ HLA 4-1-96 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | H Anasto | Date: | 4-1-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

103 A-0 Nea 4-1-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 7000 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.003 |
| Matrix | Absorbance of Standard | | 0.643 |
| LIQUID | Y-Intercept Value | | 0.000194 |
| Sample # | Slope Value | | 0.143424 |
| STD/71N8G | µg of CN in Standard | | 4.461 |
| Instrument Code | | | |
| 301 | | | |
| Analyst | | | |
| PJ. McCOWN | | | |
| Date | µg of CN-/mL in Standard | | 892 |
| 03/29/96 | | | |
| Time | Standard % Recovery | | 97.5% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | HAnasto | Date: | 4-1-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 A-0 Rev 4-1-96

## CN- DETERMINATION : LA-695-1~~02 (E-0)~~ BLANK, LIQUID, SOLID

| | | SAMPLE |
|---|---|---|
| Type: SOLID | Sample Weight in grams (SS) | 0.55815 |
| Work List: 7000 | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code: CN-01 | Dilution Factor (DF) | 1.000 |
| | Absorbance of Blank | 0.003 |
| Matrix: SOLID | Absorbance of Sample | 0.139 |
| | Y-Intercept Value | 0.000194 |
| Sample #: S96T004167 | Slope Value | 0.143424 |
| | µg of Cyanide | 0.947 |
| Instrument Code: 301 | µg CN- /g | 1.70E+01 |

Analyst: PJ MCOWN

Date: 03/29/96

Time:

µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value

µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF

Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF

v RESULTS v

| | | | |
|---|---|---|---|
| | Cyanide Concentration (µg/g) | 1.70E+01 | Detection Limit µg CN- / g |
| Calibration Date: 02/23/96 | | | 3.40E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | H Anastn | Date: | 4-1-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 A-D Hla 4-1-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| SOLID | Sample Weight in grams (SS) | 0.94785 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 7000 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.003 |
| Matrix | Absorbance of Sample | 0.255 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S96T004167/DUP | µg of Cyanide | 1.756 |
| Instrument Code | µg CN- /g | 1.85E+01 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| PJ MCOWN | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/29/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.85E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 2.00E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | HAnastn | Date: | 4-1-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

103 A-D NLa 4-1-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ SPIKE, STANDARD

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 7000 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.003 | |
| Matrix | Absorbance of Sample+Spike | 0.458 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S95T0004167 | µg of CN- in Sample+Spike | 3.171 | ERR |
| Instrument Code | | | |
| 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 0.9470 | |
| PJ. McCOWN | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/29/96 | | | |
| Time | Spike % Recovery | 97.2% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | H Anastas | Date: | 4-1-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 A-0 Nea 4-1-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.61549 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 7000 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.003 |
| Matrix | Absorbance of Sample | 0.162 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S96T004168 | µg of Cyanide | 1.107 |
| Instrument Code | µg CN- /g | 1.80E+01 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| PJ MCOWN | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/29/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.80E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 3.09E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | H Anaotn | Date: | 4-1-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 AD Hea 4-1-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.51628 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 7000 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.003 |
| Matrix | Absorbance of Sample | 0.131 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S96T004168/DUP | µg of Cyanide | 0.891 |
| Instrument Code | µg CN- /g | 1.73E+01 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| PJ MCOWN | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/29/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.73E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 3.68E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | HAnastro | Date: | 4-1-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

103 A-0 Hea 4-1-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ SPIKE, STANDARD

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 7000 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.003 | |
| Matrix | Absorbance of Sample+Spike | 0.456 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S95T0004168 | µg of CN- in Sample+Spike | 3.157 | ERR |
| Instrument Code | | | |
| 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 1.1070 | |
| PJ. McCOWN | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/29/96 | | | |
| Time | Spike % Recovery | 89.6% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | HKnaster | Date: | 4-1-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

103 A-0 Hea 4-1-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 7000 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.003 |
| Matrix | Absorbance of Standard | | 0.645 |
| LIQUID | Y-Intercept Value | | 0.007237 |
| Sample # | Slope Value | | 0.147420 |
| STD/71N8G/CCV | µg of CN in Standard | | 4.306 |
| Instrument Code | | | |
| 301 | | | |
| Analyst | | | |
| PJ. McCOWN | | | |
| Date | µg of CN-/mL in Standard | | 861 |
| 03/29/96 | | | |
| Time | Standard % Recovery | | 94.1% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/25/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | H Anastas | Date: | 4-1-96 |

Form X2 Rev. 1.0 573 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| BLANK | | |
| Work List | | |
| 7000 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.003 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.007237 |
| Sample # | Slope Value | 0.147420 |
| BLNK/CCB | µg of Cyanide | -0.029 |
| Instrument Code | µg CN- /mL | -5.75E-03 |
| 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| PJ MCOWN | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/29/96 | Detection Limit = 0.055 µg Cyanide / SS (mL) * Digest Dilution Factor | |
| Time | v RESULTS v | |

| | | | |
|---|---|---|---|
| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / mL |
| Calibration Date | | | |
| 02/25/96 | | | 1.10E-02 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | H Anastn | Date: | 4-1-96 |

Form 695102C1 Rev. 1.7



574

# LABCORE Data Entry Template for Worklist# 7172

**Analyst:** JTK **Instrument:** CN01 **Book #** 71N8G

**Method:** LA-695-102 Rev/Mod E-Ø

**Worklist Comment:** CN in WATER BY-106

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | CN-03 | LIQUID | 1 | <1.10e-2 | N/A | ug/mL |
| | | 2 | STD | | | | CN-03 | LIQUID | 915 | 921 | N/A | ug/mL |
| 95000229 | BY-106 | 3 | SAMPLE | S96T000258 | 0 | | CN-03 | LIQUID | N/A | 4.25e+1 | 2.20 | ug/mL |
| 95000229 | BY-106 | 4 | DUP | S96T000258 | 0 | | CN-03 | LIQUID | 4.25e+1 | 4.44e+1 | N/A | ug/mL |
| 95000229 | BY-106 | 5 | SPK | S96T000258 | 0 | | CN-03 | LIQUID | 100 | 96.1 | N/A | ug/mL |
| | | 6 | CCV | | | | CN-01 | LIQUID | 915 | 930 | N/A | ug/mL |
| | | 7 | CCB | | | | CN-01 | LIQUID | 1 | <1.10e-2 | N/A | ug/mL |

## Final page for worklist # 7172

[signature] 4.4.96
**Analyst Signature** **Date**

Heather Anastas 4-4-96
**Analyst Signature** **Date**

Approved by H Anastas 4-4-96

*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.*

# LABCORE Data Entry Template for Worklist# 7173

**Analyst:** HLA **Instrument:** CN01 **Book #** n/a

**Method:** LA-695-103 Rev/Mod ~~E-0~~ A-0 HLA 4-1-96

**Worklist Comment:** BY-106 liquid CN-01 n/a

| GROUP | PROJECT | S TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 95000229 | BY-106 | 1 SAMPLE | S96T000258 | 0 | | CN-01 | LIQUID | N/A | n/a | | ug/mL |
| 95000229 | BY-106 | 2 DUP | S96T000258 | 0 | | CN-01 | LIQUID | n/a | n/a | N/A | ug/mL |
| 95000229 | BY-106 | 3 SPK | S96T000258 | 0 | | CN-01 | LIQUID | n/a | n/a | N/A | ug/mL |

## Final page for worklist # 7173

H Anastas 4-1-96
**Analyst Signature** **Date**

Heather Anastas 4-1-96
**Analyst Signature** **Date**

Approved by H Anastas 4-1-96

Sample S96T000258 will be analyzed by LA-695-~~103~~ 102 E~~0~~ HLA 4-1-96, not LA-695-103 A-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.*

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| | | SAMPLE |
|---|---|---|
| Type | | |
| BLANK | | |
| Work List | | |
| 7172 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-03 | Absorbance of Blank (Reagent, Prep) | 0.005 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.007237 |
| Sample # | Slope Value | 0.147420 |
| BLANK | µg of Cyanide | -0.015 |
| Instrument Code | µg CN- /mL | -3.03E-03 |
| CN01-301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| JTK | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 04/01/96 | Detection Limit = 0.055 µg Cyanide / SS (mL) * Digest Dilution Factor | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / mL |
|---|---|---|---|
| Calibration Date | | | |
| 02/25/96 | | | 1.10E-02 |

| | | | |
|---|---|---|---|
| Data Entry by: | HLA | Date: | 04/04/96 |
| Approved by: | HAnastor | Date: | 4/4/96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) SPIKE, STANDARD

| | | NA | STANDARD |
|---|---|---|---|
| Type | | | |
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 7172 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-03 | Absorbance of Blank | | 0.005 |
| Matrix | Absorbance of Standard | | 0.691 |
| LIQUID | Y-Intercept Value | | 0.007237 |
| Sample # | Slope Value | | 0.147420 |
| 71N8G | µg of CN in Standard | | 4.604 |
| Instrument Code | | | |
| CN01 - 301 | | | |
| Analyst | | | |
| JTK | | | |
| Date | µg of CN-/mL in Standard | | 921 |
| 04/01/96 | | | |
| Time | Standard % Recovery | | 100.6% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/25/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | HLA | Date: | 04/04/96 |
| Approved by: | H Anastas | Date: | 4-4-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| LIQUID | Sample Aliquot in mL | 0.50000 |
| Work List | Sample Dilution Volume in mL (Sample+H2O Vol.) | 10.00000 |
| 7172 | Sample Aliquot Taken from dilution in mL (SS) | 0.50000 |
| Test Code | Absorbance of Blank | 0.005 |
| CN-03 | Absorbance of Sample | 0.169 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.007237 |
| Sample # | Slope Value | 0.147420 |
| S96T000258 | µg of Cyanide | 1.063 |
| Instrument Code | µg CN- /mL | 4.25E+01 |
| CN01-301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JTK | µg/mL of Cyanide = µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor | |
| Date | Dilution Factor = Flask Volume (mL) / Sample Aliquot (mL) | |
| 04/01/96 | Detection Limit = 0.055 µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/mL) | 4.25E+01 |
| Calibration Date | | |
| 02/25/96 | | |

| Detection Limit µg CN- / mL |
|---|
| 2.20E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | HLA | Date: | 04/04/96 |
| Approved by: | 4-4-96 Hanastro | Date: | |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| LIQUID | Sample Aliquot in mL | 0.50000 |
| Work List | Sample Dilution Volume in mL (Sample+H2O Vol.) | 10.00000 |
| 7172 | Sample Aliquot Taken from dilution in mL (SS) | 0.50000 |
| Test Code | Absorbance of Blank | 0.005 |
| CN-03 | Absorbance of Sample | 0.176 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.007237 |
| Sample # | Slope Value | 0.147420 |
| S96T000258DUP | µg of Cyanide | 1.111 |
| Instrument Code | µg CN- /mL | 4.44E+01 |
| CN01-301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JTK | µg/mL of Cyanide = µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor | |
| Date | Dilution Factor = Flask Volume (mL) / Sample Aliquot (mL) | |
| 04/01/96 | Detection Limit = 0.055 µg Cyanide / SS (mL) * Dilution Factor * Digest Dilution Factor | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/mL) | 4.44E+01 |
| Calibration Date | | |
| 02/25/96 | | |

| Detection Limit µg CN- / mL |
|---|
| 2.20E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | HLA | Date: | 04/04/96 |
| Approved by: | HAnastor | Date: | 4-4-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) SPIKE, STANDARD

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 7172 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-03 | Absorbance of Blank | 0.005 | |
| Matrix | Absorbance of Sample+Spike | 0.493 | |
| LIQUID | Y-Intercept Value | 0.007237 | |
| Sample # | Slope Value | 0.147420 | |
| S96T000258 | µg of CN- in Sample+Spike | 3.261 | |
| Instrument Code | | | |
| CN01 - 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 1.0630 | |
| JTK | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 04/01/96 | | | |
| Time | Spike % Recovery | 96.1% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/25/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | HLA | Date: | 04/04/96 |
| Approved by: | J Hanastro | Date: | 4-4-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 7172 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-03 | Absorbance of Blank | | 0.005 |
| Matrix | Absorbance of Standard | | 0.698 |
| LIQUID | Y-Intercept Value | | 0.007237 |
| Sample # | Slope Value | | 0.147420 |
| 71N8G - CCV | µg of CN in Standard | | 4.652 |
| Instrument Code | | | |
| CN01 - 301 | | | |
| Analyst | | | |
| JTK | | | |
| Date | µg of CN-/mL in Standard | | 930 |
| 04/01/96 | | | |
| Time | Standard % Recovery | | 101.7% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/25/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | HLA | Date: | 04/04/96 |
| Approved by: | [illegible] | Date: | 4-4-96 |

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| | | SAMPLE |
|---|---|---|
| Type | | |
| BLANK | | |
| Work List | | |
| 7172 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-03 | Absorbance of Blank (Reagent, Prep) | 0.003 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.007237 |
| Sample # | Slope Value | 0.147420 |
| BLANK - CCV | µg of Cyanide | -0.029 |
| Instrument Code | µg CN- /mL | -5.75E-03 |
| CN01-301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| JTK | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 04/01/96 | Detection Limit = 0.055 µg Cyanide / SS (mL) * Digest Dilution Factor | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / mL |
|---|---|---|---|
| Calibration Date | | | |
| 02/25/96 | | | 1.10E-02 |

| | | | |
|---|---|---|---|
| Data Entry by: | HLA | Date: | 04/04/96 |
| Approved by: | HAnastas | Date: | 4-4-96 |

Form 695102C1 Rev. 1.7



582.1

THE FOLLOWING ANALYSES WERE RERUN. THEY ARE INCLUDED IN THE DATA PACKAGE BUT THE RESULTS HAVE NOT BEEN REPORTED IN THE FINAL SUMMARY REPORTS.

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# LABCORE Data Entry Template for Worklist# 267

**Analyst:** [illegible] **Instrument:** SP01 **Method:** LA-695-102 / C-O

**Worklist Comment:** BY-106 CN samples

| Seg | Type | Sample# | Rep Al | Test | Matrix | Actual | Found | DL | Unit |
|---|---|---|---|---|---|---|---|---|---|
| 1 | BLNK | | | CN-01 | SOLID | 1 | 2.12 | N/A | ug/g |
| 2 | STD | | | CN-01 | SOLID | 931 | 879 | N/A | ug/~~g~~ ml gwb 2/13/ |
| 3 | SPK | S94T000344 | 0 | CN-01 | SOLID | 100 | 96.5 | N/A | % ~~ug/g~~ gwb 2/13/ |
| 4 | SAMPLE | S94T000344 | 0 | CN-01 | SOLID | N/A | 10.0 | ~~0.04~~ 2.2 gwb 2/13/95 | ug/g |
| 5 | DUP | S94T000344 | 0 | CN-01 | SOLID | 10.0 | 13.5 | N/A | ug/g |
| 6 | SAMPLE | S94T000345 | 0 | CN-01 | SOLID | N/A | 27.9 | ~~0.03~~ 1.5 gwb 2/13/95 | ug/g |
| 7 | DUP | S94T000345 | 0 | CN-01 | SOLID | 27.9 | 27.4 | N/A | ug/g |
| 8 | STD | | | CN-01 | SOLID | 931 | 891 | N/A | ug/~~g~~ ml gwb 2/13/ |

## Final page for worklist # 267

[illegible] R 2.10.95 7.1 2.10.95

**Analyst Signature** **Date**

S94T000344 → .4462 Grams in 5ml EDTA/ea
S94T000345 → ~~.667~~ R 2.10.94 .6637 grams in 5ml EDTA/ea
Std 41N8F → .100-10-.500
Spk 41N8F → .100-10-.250
Sample Size .500 ml

| | |
|---|---|
| .101 | Blank |
| .728 | Std |
| .472 | 344 Spk |
| .157 | 344 |
| .180 | 344 Dup |
| .362 | 345 |
| .358 | 345 Dup |
| .736 | Std |

DATA NOT USED IN PACKAGE

*Data Entry Comments:* Data entered 2/13/95 [illegible]
worklist reviewed, entire batch results rejected due to too low results relative to detection limit. RW Schroeder 2/14/95

*Units shown for QC (SPK) may not reflect the actual units.*

*Page:* 1

CYANIDE CALIBRATION CURVE with EDTA/en and Ammonium sulfamate

DATE: FEBRUARY 3, 1995
CALIBRATION STANDARD: 41N8F
INSTRUMENT I.D: WA93252
WORKING STANARD CONCENTRATION: 931uG/mL / 101D.F. = 9.22 uG/mL

| Sample I.D. | uG CN- | Net Abs. | Calc. uG | RPD |
|---|---|---|---|---|
| Blank | 0 | 0 | 0 | 0 |
| 0.050mL | 0.461 | 0.073 | 0.563 | -19.9 |
| 0.200mL | 1.844 | 0.251 | 1.782 | 3.42 |
| 0.400mL | 3.687 | 0.516 | 3.595 | 2.53 |
| 0.600mL | 5.531 | 0.779 | 5.4 | 2.4 |
| 0.800mL | 7.374 | 1.06 | 7.318 | 0.76 |
| 1.000mL | 9.218 | 1.371 | 9.446 | -2.44 |
| 1.200mL | 11.062 | 1.6 | 10.886 | 1.6 |

Regression Output:

| | | |
|---|---|---|
| Constant | | -0.00932 |
| Std Err of Y Est | | 0.019149 |
| R Squared | | 0.999125 |
| No. of Observations | | 8 |
| Degrees of Freedom | | 6 |
| X Coefficient(s) | 0.14612 | |
| Std Err of Coef. | 0.001765 | |

2·10·95

DATA
NOT USED
IN PACKAGE

2/7/95 GWB

305, 308 GB



(1) Blank

$$\frac{0.018 + 0.00932}{0.14612} = 0.187\ \mu g$$

$$\frac{0.187\ \mu g}{\text{RWS 2/7/95 } \cancel{5.25\ mL}\ 4.00\ mL} \times \frac{5.00\ mL}{\cancel{0.4629}\ \text{RWS 2/8/95 } 0.50492\ g} = \cancel{2.02\ \mu g/g}\ \text{RWS 2/8/95}\ \underline{0.46\ \mu g/g}$$

(2) STD

$$\frac{(0.669 - 0.018) + 0.00932}{0.14612} = 4.52\ \mu g$$

$$\frac{4.52\ \mu g \times 101\ d.f.}{0.500\ mL} = 913\ \mu g/mL \qquad 913/931 \times 100\% = \underline{98.1\%\ rec}$$

GWB 2/7/95 ~~(3)~~ (4) S94T000305 ~~(SPIKE)~~ sample GWB 2/7/95

$$\frac{(0.121 - 0.018) + 0.00932}{0.14612} = 0.769\ \mu g$$

$$\frac{0.769\ \mu g}{0.250\ mL} \times \frac{5.00\ mL}{0.50492\ g} = \cancel{7.62\ \mu g/g}\ \underline{30.5\ \mu g/g}\ \text{GWB 2/7/95}$$

DATA NOT USED IN PACKAGE

GWB 2/7/95 ~~(4)~~ (5) S94T000305 (Dup)

$$\frac{(0.119 - 0.018) + 0.00932}{0.14612} = 0.755\ \mu g$$

$$\frac{0.755\ \mu g}{0.250\ mL} \times \frac{5.00\ mL}{0.50492\ g} = \cancel{7.48\ \mu g/g}\ \underline{29.9\ \mu g/g}\ \text{GWB 2/7/95}$$

GWB 2/7/95 ~~(5)~~ (3) S94T000305 (spike)

$$\frac{(0.421 - 0.018) - (0.121 - 0.018) + 0.00932}{0.14612} = 2.12\ \mu g$$

actual $(931\ \frac{\mu g}{mL} / 101) * .250\ mL = 2.30\ \mu g$

587 2.12 µg / ... × 100% = 92.2% rec

301, 301 RC

S94T000308 (SAMPLE)

(6) $\frac{(0.114 - 0.018) + 0.00932}{0.14612} = 0.721\ \mu g$

$\frac{0.721\ \mu g}{0.250\ ml} \times \frac{5.00\ ml}{0.41792\ g} = \underline{34.5\ \mu g/g}$

(7) S94T000308 (DUP)

$\frac{(0.121 - 0.018) + 0.00932}{0.14612} = 0.769\ \mu g$

$\frac{0.769\ \mu g}{0.250\ ml} \times \frac{5.00\ ml}{0.41792\ g} = \underline{36.8\ \mu g/g}$

(8) STD

$\frac{(0.680 - 0.018) + 0.00932}{0.14612} = 4.59\ \mu g$

DATA NOT USED IN PACKAGE

$\frac{4.59\ \mu g \times 101\ d.f.}{0.500\ ml} = 927\ \mu g/ml$

$927/931 \times 100\% = \underline{99.6\%\ rec}$

309, 310
2/7

(1) Blank

$$\frac{0.015 + 0.00932}{.14612} = 0.166 \text{ ug}$$

5.00 gwB 2/7/95

$$\frac{0.166 \text{ ug}}{4.00 \text{ ml}} \times \frac{\cancel{500} \text{ ml}}{0.69401 \text{ g}} = \underline{0.30 \text{ ug/g}}$$

(2) STD

$$\frac{(0.675 - 0.015) + 0.00932}{0.14612} = 4.58 \text{ ug}$$

$$\frac{4.58 \text{ ug} \times 101 \text{ d.f.}}{0.500 \text{ ml}} = 925 \text{ ug/ml}$$

$$925/931 \times 100\% = \underline{99.4\% \text{ rec}}$$

(3) SPIKE (S94T000309)

$$\frac{(0.758 - 0.457) + 0.00932}{0.14612} = 2.12 \text{ ug}$$

DATA NOT USED IN PACKAGE

$$\frac{931 \text{ ug/ml}}{101} \times 0.250 \text{ ml} = 2.30 \text{ ug}$$

$$\frac{2.12 \text{ ug}}{2.30 \text{ ug}} \times 100\% = \underline{92.2\% \text{ rec}}$$

(4) S94T000309 (sample)

$$\frac{(0.457 - 0.015) + 0.00932}{\cancel{0.14162}\ 0.14612} = 3.09 \text{ ug}$$

gwB 2/7/95

$$\frac{3.09 \text{ ug}}{0.500 \text{ ml}} \times \frac{5.00 \text{ ml}}{0.69401 \text{ g}} = \underline{44.5 \text{ ug/g}}$$

(5) S94T000309 (Dup)

$$\frac{(0.463 - 0.015) + 0.00932}{0.14612} = 3.13 \text{ ug}$$

$$\frac{3.13 \text{ ug}}{0.500 \text{ ml}} \times \frac{5.00 \text{ ml}}{0.69401 \text{ g}} = \underline{45.1 \text{ ug/g}}$$

(7) gwB 2/7/95 (Dup) gwB 2/7/95

~~(6)~~ S94T000310 ~~(sample)~~

$$\frac{(0.294 - 0.015) + 0.00932}{0.14612} = 1.97 \text{ ug}$$

$$\frac{1.97 \text{ ug}}{0.500 \text{ ml}} \times \frac{5.00 \text{ ml}}{0.36987 \text{ g}} = \underline{53.3 \text{ ug/g}}$$

gwB 2/7/95

~~(7) S94T000310 (Dup)~~

DATA NOT USED IN PACKAGE

(6) S94T000310 (sample)

$$\frac{(.304 - .015) + .00932}{0.14612} = 2.04 \text{ ug}$$

$$\frac{2.04 \text{ ug}}{0.500 \text{ ml}} \times \frac{5.00 \text{ ml}}{0.36987 \text{ g}} = \underline{55.2 \text{ ug/g}}$$

(8) STD

$$\frac{(0.655 - 0.015) + 0.00932}{0.14612} = 4.44 \text{ ug}$$

$$\frac{4.44 \text{ ug} \times 101 \text{ d.f.}}{0.500 \text{ ml}} = 897 \text{ ug/ml}$$

gwB 2/7/95

897/931 = ~~94~~ 96.4% rec

 2/6/95 311, 343

1) $\frac{(0.714-0.016)-(-0.00932)}{0.14612} = (4.84 \times 101)/.500 = 977.8/931 \cdot 100 = 105\%$ rec

2)

311) $\frac{(0.463-0.016)-(-0.00932)}{0.14612} = (3.12\ \mu g)\left(\frac{1\ mL}{\cancel{.6708g/5.0mL}}\right)\left(\frac{5.00mL/.6708g}{}\right) = \cancel{0.4186}$ 23.2 µg/g

RWS 2/6/95 RWS 2/6/95

311 Dup) $\frac{(0.483-0.016)-(-0.00932)}{0.14612} = (3.26)\mu g/1mL)(5.00mL/.6708g) = 24.3\ \mu g/g$

311 Spk) $\frac{\{(0.809-0.\cancel{48}\ 0.016)-(463-0.016)\}-(-0.00932)}{0.14612} = 2.43/2.30 \cdot 100 = 105.6\%$ rec

.463 RWS 2/6/95

$(931/101)(.250) = 2.30$

DATA NOT USED IN PACKAGE

343) $\frac{(.209-0.016)-(-0.00932)}{0.14612} = 1.38\ \mu g/mL\ (5.00mL/0.5905g) = 11.68\ \mu g/g$

343 Dup) $\frac{(0.190-0.016)-(-0.00932)}{0.14612} = 1.25\ \mu g/1.00mL\ (5.00mL/0.5905g) = 10.58\ \mu g/g$

std) $\frac{(0.636-0.016)-(-0.00932)}{0.14612} = 4.31 \times 101/.500 = 869.99/931 \times 100 = 93.4\%$ rec

BINK $\frac{(0.016-0.000)-(-0.00932)}{0.14612} = 0.17328g/5.00mL\ (5.00mL/0.6708g) = 0.23\ \mu g/g$

326, 342
36

(1) BLANK

$$\frac{0.089 + 0.00932}{0.14612} = 0.673\ \mu g$$

$$\frac{0.673\ \mu g}{4.00\ ml} \times \frac{5.00\ ml}{0.4362\ g} = 1.9\ \frac{\mu g}{g}$$

(2) STD

$$\frac{(0.733 - 0.089) + 0.00932}{0.14612} = 4.47\ \mu g$$

$$\frac{4.47\ \mu g \times \cancel{100}\ 10.\ \text{d.f.}}{0.500\ ml} = 903\ \mu g/ml$$ JWB 2/9/95

$$903/931 \times 100\% = 97.0\%\ \text{rec.}$$

(3) SPIKE of S94T000326

$$\frac{(0.586 - 0.275) + 0.00932}{0.14612} = 2.19\ \mu g$$

DATA NOT USED IN PACKAGE

$$\left(931\ \frac{\mu g}{ml} / 101\right) \times .250\ ml = 2.30\ \mu g$$

$$2.19/2.30 \times 100\% = 95.2\%\ \text{rec}$$

(4) S94T000326 (Sample)

$$\frac{(0.275 - 0.089) + 0.00932}{0.14612} = \cancel{1.27}\ 1.34\ \mu g$$ JWB 2/9/95

$$\frac{1.34\ \mu g}{0.500\ ml} \times \frac{5.00\ ml}{0.4362\ g} = 30.7\ \mu g/g$$

(5) S94T000326 (Dup)

$$\frac{(0.279 - 0.089) + 0.00932}{0.14612} = 1.36 \text{ ug}$$

$$\frac{1.36 \text{ ug}}{0.500 \text{ ml}} \times \frac{5.00 \text{ ml}}{0.4362 \text{ g}} = \underline{31.2 \text{ ug/g}}$$

(6) S94T000342 (sample)

$$\frac{(0.266 - 0.089) + 0.00932}{0.14612} = 1.28 \text{ ug}$$

$$\frac{1.28 \text{ ug}}{0.500 \text{ ml}} \times \frac{5.00 \text{ ml}}{0.5788 \text{ g}} = \underline{22.1 \text{ ug/g}}$$

DATA NOT USED IN PACKAGE

(7) S94T000342 (Dup)

$$\frac{(0.237 - 0.089) + 0.00932}{0.14612} = 1.08 \text{ ug}$$

$$\frac{1.08 \text{ ug}}{0.50 \text{ ml}} \times \frac{5.00 \text{ ml}}{0.5788 \text{ g}} = \underline{18.7 \text{ ug/g}}$$

(8) STD

$$\frac{(0.721 - 0.089) + 0.00932}{0.14612} = 4.39 \text{ ug}$$

$$\frac{4.39 \text{ ug}}{0.500 \text{ ml}} \times \overset{\text{JWB 2/9/95}}{\overset{101}{\cancel{100}}} \text{ d.f.} = 887 \text{ ug/ml}$$

$$887/931 \times 100\% = \underline{95.3\% \text{ rec}}$$

344, 341 2/13/95

(1) Blank

$$\frac{(0.101) + 0.00932}{0.14612} = 0.755\ \mu g$$

$$\frac{0.755\ \mu g}{4.00\ ml} \times \frac{5.00\ ml}{0.4462\ g} = \underline{2.12\ \mu g/g}$$

(2) STD

$$\frac{(0.726 - 0.101) + 0.00932}{0.14612} = 4.35\ \mu g$$

DATA NOT USED IN PACKAGE

JWB 2/13/95

$$\frac{4.35\ \mu g \times \cancel{100}\ 101\ d.f.}{0.500\ ml} = 879\ \mu g/g$$

$$879/931 \times 100\% = \underline{94.4\%\ rec.}$$

(3) SPIKE

$$\frac{(0.472 - 0.157) + 0.00932}{0.14612} = 2.22\ \mu g$$

$$\frac{931\ \mu g/ml}{101} \times 0.250\ ml = 2.30\ \mu g$$

$$2.22/2.30 \times 100\% = \underline{96.5\%\ rec}$$

(4) S94T000344 (sample)

$$\frac{(0.157 - 0.101) + 0.00932}{0.14612} = 0.447\ \mu g$$

$$\frac{0.447\ \mu g}{0.500\ ml} \times \frac{5.00\ ml}{0.4462\ g} = \underline{10.0\ \mu g/g}$$

340, 343 2/13/95 [illegible]

(5) S94T000344 (Dup)

$$\frac{(0.180 - 0.101) + 0.00932}{0.14612} = 0.604\ \mu g$$

$$\frac{0.604\ \mu g}{.500\ ml} \times \frac{5.00\ ml}{0.4462\ g} = \underline{13.5\ \mu g/g}$$

(6) S94T000345 (Sample)

DATA NOT USED IN PACKAGE

$$\frac{(0.362 - 0.101) + 0.00932}{0.14612} = 1.85\ \mu g$$

$$\frac{1.85\ \mu g}{0.500\ ml} \times \frac{5.00\ ml}{0.6637\ g} = \underline{27.9\ \mu g/g}$$

(7) S94T000345 (Dup)

$$\frac{(0.358 - 0.101) + 0.00932}{0.14612} = 1.82\ \mu g$$

$$\frac{1.82\ \mu g}{0.500\ ml} \times \frac{5.00\ ml}{0.6637\ g} = \underline{27.4\ \mu g/g}$$

(8) STD

$$\frac{(0.736 - 0.101) + 0.00932}{0.14612} = 4.41\ \mu g$$

$$\frac{4.41\ \mu g}{.500\ ml} \times 101\ d.f. = 891\ \cancel{\mu g/g}\ \mu g/ml$$ gwb 2/13/95

$$891/931 \times 100\% = \underline{95.7\%\ rec}$$

372, 381
RB

(1) Blank

$$\frac{(0.046) + 0.00932}{0.14612} = 0.379\ \mu g$$

$$\frac{0.379\ \mu g}{4.00\ ml} \times \frac{5.00\ ml}{1.1613\ g} = 0.41\ \mu g/g$$

~~< D.L.~~
~~< 0.9 µg/g~~ RWS 2/10/95

(2) STD

$$\frac{(0.665 - 0.046) + 0.00932}{0.14612} = 4.30\ \mu g$$

DATA NOT USED IN PACKAGE

$$\frac{4.30\ \mu g \times 101\ d.f.}{0.500\ ml} = 867\ \mu g/ml$$

$$867/931 \times 100\% = \underline{93.1\%\ rec}$$

(3) S94T000372 (sample) RWS 3/23/95

$$\frac{(0.271 - 0.046) + 0.00932}{0.14612} = 1.60\ \mu g$$

$$\frac{1.60\ \mu g}{0.500\ ml} \times \frac{5.00\ ml}{1.1613\ g} = \underline{13.8\ \mu g/g}$$

(4) S94T000372 (Dup) RWS 3/23/95

$$\frac{(0.262 - 0.046) + 0.00932}{0.14612} = 1.54\ \mu g$$

$$\frac{1.54\ \mu g}{0.500\ ml} \times \frac{5.00\ ml}{1.1613\ g} = \underline{13.3\ \mu g/g}$$

596

(5) Spike on S94T000372 RWS 3/23/95

JWB 2/16/95

$$\frac{(0.548 - \cancel{0.2}\ 0.271) + 0.00932}{\cancel{1.146}\ 0.14612} = 1.96\ \mu g$$

JWB 2/16/95

$$\frac{931\ \mu g/ml}{\cancel{100}\ 101\ d.f.} \times 0.250\ ml = 2.30\ \mu g$$

JWB 2/16/95

$1.96 / 2.30 \times 100\% =$ 85.2% RC

(6) S94T000381 (sample)

$$\frac{(\cancel{0.548}\ 0.069 - 0.046) + 0.00932}{0.14612} = 0.221\ \mu g$$

JWB 2/16/95

DATA NOT USED IN PACKAGE

$$\frac{0.221\ \mu g}{0.500\ ml} \times \frac{5.00\ ml}{0.7425\ g} = 3.0\ \mu g/g$$

(7) S94T000381 (Dup)

$$\frac{(0.077 - 0.046) + 0.00932}{0.14612} = 0.276\ \mu g$$

$$\frac{0.276\ \mu g}{0.500\ ml} \times \frac{5.00\ ml}{0.7425\ g} = 3.7\ \mu g/g$$

(8) STD

$$\frac{(0.659 - 0.046) + 0.00932}{0.14612} = 4.26\ \mu g$$

$$\frac{4.26\ \mu g}{0.500\ ml} \times \cancel{5}\ 101\ d.f. = 861\ \mu g/ml$$

JWB 2/16/95

$861 / 931 \times 100\% =$ 92.5% RC

# LABCORE Data Entry Template for Worklist# 5467

**Analyst:** jtk LC 3/25/96 **Instrument:** CN01 _____ **Book #** 71N8G

**Method:** LA-695-~~102~~ 103 Rev/Mod A-0

**Worklist Comment:** BY-106 CN. RCJ

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | -------TEST------ | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | CN-01 | SOLID | 1 | <3.80e-2 | N/A | ug/g |
| | | 2 | STD | | | | CN-01 | SOLID | 9.15e+2 | 6.63e+2 | N/A | ug/g |
| 95000229 | BY-106 | 3 | SAMPLE | S95T004167 | 0 | | CN-01 | SOLID | N/A | 1.85e+1 | 3.40e+0 | ug/g |
| 95000229 | BY-106 | 4 | DUP | S95T004167 | 0 | | CN-01 | SOLID | 1.85e+1 | 1.87e+1 | N/A | ug/g |
| 95000229 | BY-106 | 5 | SPK | S95T004167 | 0 | | CN-01 | SOLID | 100.0 | 106.1 | N/A | ug/g |
| 95000229 | BY-106 | 6 | SAMPLE | S95T004168 | 0 | | CN-01 | SOLID | N/A | 1.82e+1 | 3.09e+0 ~~3.90e+0~~ LC 3/25/96 | ug/g |
| 95000229 | BY-106 | 7 | DUP | S95T004168 | 0 | | CN-01 | SOLID | 1.82e+1 | 1.85e+1 | N/A | ug/g |
| 95000229 | BY-106 | 8 | SPK | S95T004168 | 0 | | CN-01 | SOLID | 100.0 | 103.6 | N/A | ug/g |
| | | 9 | CCV | | | | CN-01 | SOLID | 9.15e+2 | 1.04e+3 | N/A | ug/g |
| | | 10 | CCB | | | | CN-01 | SOLID | 1 | <1.10e-2 | N/A | ug/g |

## Final page for worklist # 5467

for JT Knight, Jr
Heather Anastos 3-26-96
**Analyst Signature** **Date**

Linda Conlin 3/25/96
**Analyst Signature** **Date**

Approved + rejected by H Anastos 3-26-96

DATA NOT USED IN PACKAGE

*Data Entry Comments:* Batch will be rejected due to LCS failure.
HLA 3-26-96

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

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) BLANK, LIQUID, SOLID

le 3/25/96

| Type | | SAMPLE |
|---|---|---|
| BLANK | | |
| Work List | | |
| 5467 | Blank Weight in g (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.005 |
| Matrix | Digest Dilution Factor | 1 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| BLNK | µg of Cyanide | 0.034 |
| Instrument Code | µg CN- /g | 6.70E-03 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/25/96 | Detection Limit = 0.19 µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Time | v RESULTS v | |

DATA NOT USED IN PACKAGE

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / g |
|---|---|---|---|
| Calibration Date | | | |
| 02/23/96 | | | 3.80E-02 |

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Conlin | Date: | 03/25/96 |
| Approved by: | H Anastos | Date: | 3-26-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) SPIKE, STANDARD

lc 3-25-96

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5467 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.005 |
| Matrix | Absorbance of Standard | | 0.481 |
| SOLID | Y-Intercept Value | | 0.000194 |
| Sample # | Slope Value | | 0.143424 |
| 71N8G | µg of CN in Standard | | 3.317 |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | | | |
| JT KNIGHT JR | | | |
| Date | µg of CN-/mL in Standard | | 663 |
| 03/25/96 | | | |
| Time | Standard % Recovery | | 72.5% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

DATA NOT USED IN PACKAGE

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | [signature] | Date: | 03/25/96 |
| Approved by: | H Anastas | Date: | 3-26-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103(A-0) BLANK, LIQUID, SOLID

lc 3-25-96

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.55815 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5467 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.005 |
| Matrix | Absorbance of Sample | 0.153 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004167 | µg of Cyanide | 1.031 |
| Instrument Code | µg CN- /g | 1.85E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/25/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.85E+01 |
| Calibration Date | | |
| 02/23/96 | | |

DATA NOT USED IN PACKAGE

| Detection Limit µg CN- / g |
|---|
| 3.40E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Frank Conlin | Date: | 03/25/96 |
| Approved by: | J Anastor | Date: | 3-26-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) BLANK, LIQUID, SOLID

LE 3-25-96

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.94785 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5467 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.005 |
| Matrix | Absorbance of Sample | 0.26 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004167 DUP | µg of Cyanide | 1.777 |
| Instrument Code | µg CN- /g | 1.87E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/25/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.87E+01 |
| Calibration Date | | |
| 02/23/96 | | |

DATA NOT USED IN PACKAGE

| Detection Limit µg CN- / g |
|---|
| 2.00E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Contin | Date: | 03/25/96 |
| Approved by: | H Hanaster | Date: | 3-26-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103(A-0) SPIKE, STANDARD

le 3-25-96

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5467 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.005 | |
| Matrix | Absorbance of Sample+Spike | 0.501 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S95T004167 | µg of CN- in Sample+Spike | 3.457 | ERR |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 1.0310 | |
| JT KNIGHT JR | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/25/96 | | | |
| Time | Spike % Recovery | 106.1% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

DATA NOT USED IN PACKAGE

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | Jenita Conlin | Date: | 03/25/96 |
| Approved by: | H Anastas | Date: | 3-26-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) BLANK, LIQUID, SOLID

LC 3-25-96

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.61549 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5467 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.005 |
| Matrix | Absorbance of Sample | 0.166 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004168 | µg of Cyanide | 1.121 |
| Instrument Code | µg CN- /g | 1.82E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/25/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) 1.82E+01 | Detection Limit µg CN- / g |
| Calibration Date | | |
| 02/23/96 | | 3.09E+00 |

DATA NOT USED IN PACKAGE

| | | | |
|---|---|---|---|
| Data Entry by: | Jenita Conlin | Date: | 03/25/96 |
| Approved by: | H Anasto | Date: | 3-26-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) BLANK, LIQUID, SOLID

LC 3-25-96

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 0.51628 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 5467 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.005 |
| Matrix | Absorbance of Sample | 0.142 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S95T004168 DUP | µg of Cyanide | 0.954 |
| Instrument Code | µg CN- /g | 1.85E+01 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/25/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |
| | Cyanide Concentration (µg/g) | 1.85E+01 |
| Calibration Date | | |
| 02/23/96 | | |

| Detection Limit µg CN- / g |
|---|
| 3.68E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Conlin | Date: | 03/25/96 |
| Approved by: | H Anastin | Date: | 3-26-96 |

Form 695102C1 Rev. 1.7



DATA NOT USED IN PACKAGE

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) SPIKE, STANDARD

LC 3-25-96

| Type | | SPIKE | NA |
|---|---|---|---|
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 5467 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.005 | |
| Matrix | Absorbance of Sample+Spike | 0.506 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S95T004168 | µg of CN- in Sample+Spike | 3.492 | ERR |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 1.1210 | |
| JT KNIGHT JR | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/25/96 | | | |
| Time | Spike % Recovery | 103.6% | DATA NOT USED |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Cowlin | Date: | 03/25/96 |
| Approved by: | H Anastor | Date: | 3-26-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) SPIKE, STANDARD

LC 3-25-96

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 5467 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.002 |
| Matrix | Absorbance of Standard | | 0.776 |
| LIQUID | Y-Intercept Value | | 0.007237 |
| Sample # | Slope Value | | 0.147420 |
| CCV | µg of CN in Standard | | 5.201 |
| Instrument Code | | | |
| SPEC 301 | | | |
| Analyst | | | |
| JT KNIGHT JR | | | |
| Date | µg of CN-/mL in Standard | | 1040 |
| 03/25/96 | | | |
| Time | Standard % Recovery | | 113.7% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/25/96 | Original Sample Calculation from Form 695102C1 | | |

DATA NOT USED IN PACKAGE

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Conlin | Date: | 03/25/96 |
| Approved by: | H Anastas | Date: | 3-26-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ 103 (A-0) BLANK, LIQUID, SOLID

LC 3-25-96

| Type | | SAMPLE |
|---|---|---|
| BLANK | | |
| Work List | | |
| 5467 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.002 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.007237 |
| Sample # | Slope Value | 0.147420 |
| CCB | µg of Cyanide | -0.036 |
| Instrument Code | µg CN- /mL | -7.10E-03 |
| SPEC 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| JT KNIGHT JR | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/25/96 | Detection Limit = 0.055 µg Cyanide / SS (mL) * Digest Dilution Factor | |
| Time | v RESULTS v | |

DATA NOT USED IN PACKAGE

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / mL |
|---|---|---|---|
| Calibration Date | | | |
| 02/25/96 | | | 1.10E-02 |

| | | | |
|---|---|---|---|
| Data Entry by: | Linda Conlin | Date: | 03/25/96 |
| Approved by: | HAnaston | Date: | 3-26-96 |

Form 695102C1 Rev. 1.7

# LABCORE Data Entry Template for Worklist# 7060

**Analyst:** RLMcCown **Instrument:** CN01 _____ **Book #** 71N8-G

**Method:** LA-695-~~103~~ 103 Rev/Mod A-0 HLA 4-1-96

**Worklist Comment:** BY-106 CN. RCJ

| GROUP | PROJECT | S | TYPE | SAMPLE# | R | A | TEST | MATRIX | ACTUAL | FOUND | DL | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | BLNK | | | | CN-01 | LIQUID | 1 | <3.8e-2 HLA 4-1-96 ~~<1.10e-2~~ | N/A | ug/mL |
| | | 2 | STD | | | | CN-01 HLA 4-1-96 | LIQUID | 915 | 862 | N/A | ug/mL |
| 95000229 | BY-106 | 3 | SAMPLE | S96T000258 | 0 | | CN-01 | LIQUID | N/A | 3.01e1 | 1.27 | ug/mL |
| 95000229 | BY-106 | 4 | DUP | S96T000258 | 0 | | CN-01 CN-03 | LIQUID | 3.01e1 | 3.66e1 | N/A | ug/mL |
| 95000229 | BY-106 | 5 | SPK | S96T000258 | 0 | | CN-01 CN-01 HLA 4-1-96 | LIQUID | 100 | 129.2 | N/A | ug/mL |
| | | 6 | CCV | | | | CN-01 | LIQUID | 915 | 820 | N/A | ug/mL |
| | | 7 | CCB | | | | CN-01 | LIQUID | 1 | <1.10e-2 | N/A | ug/mL |

## Final page for worklist # 7060

RLMcCown 3/29/96
**Analyst Signature** **Date** RLM

RLSlack 3/29/96
**Analyst Signature** **Date**

# 12468 RLS
Approved by
H Anastos 4-1-96
Rejected by
H Anastos 4-1-96

*Data Entry Comments:* SpK out of Control. Batch will be reran in water matrix under LA-695-102 E-0.

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

WHC QCHISTORY TABLE EDIT SCREEN

Sample# Assc Y Sample ID
Group# Customer
Worklist# 7060 WL Comment BY-106 CN. RCJ

| Test | Matrx | Type | Actual | Found | Yield | STAT | AnalDate | User |
|---|---|---|---|---|---|---|---|---|
| CN-01 | LIQUI | BLNK | 1 | <1.10e-2 | | TEXT | 03/29/96 1322 | pjm |
| CN-01 | LIQUI | STD | 915 | 862 | 94.2077 | NEW | 03/29/96 1322 | pjm |
| CN-01 | LIQUI | DUP | 3.01e1 | 3.66e1 | 19.4903 | NEW | 03/29/96 1322 | pjm |
| CN-01 | LIQUI | SPK | 100 | 129.2 | 129.2000 | NEW | 03/29/96 1322 | pjm |
| CN-01 | LIQUI | CCV | 915 | 820 | 89.6175 | NEW | 03/29/96 1322 | pjm |
| CN-01 | LIQUI | CCB | 1 | <1.10e-2 | | TEXT | 03/29/96 1322 | pjm |

Save(F12) End(F3)

Blnk Should be $<3.8e^{-2}$

HLa 4-1-96

DATA
NOT USED
IN PACKAGE

WHC QCHISTORY TABLE EDIT SCREEN

Sample# Assc Y Sample ID
Group# Customer
Worklist# 7060 WL Comment BY-106 CN. RCJ

| Test | Matrx | Type | Actual | Found | Yield | STAT | AnalDate | User |
|---|---|---|---|---|---|---|---|---|
| CN-01 | LIQUI | BLNK | 1 | <3.80e-2 | | TEXT | 03/29/96 1322 | pjm |
| CN-01 | LIQUI | STD | 915 | 862 | 94.2077 | NEW | 03/29/96 1322 | pjm |
| CN-01 | LIQUI | DUP | 3.01e1 | 3.66e1 | 19.4903 | NEW | 03/29/96 1322 | pjm |
| CN-01 | LIQUI | SPK | 100 | 129.2 | 129.2000 | NEW | 03/29/96 1322 | pjm |
| CN-01 | LIQUI | CCV | 915 | 820 | 89.6175 | NEW | 03/29/96 1322 | pjm |
| CN-01 | LIQUI | CCB | 1 | <1.10e-2 | | TEXT | 03/29/96 1322 | pjm |

Save(F12) End(F3)

Blnk changed to $<3.8e^{-2}$
HLa 4-1-96

DATA NOT USED IN PAGE

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 A-0 Hea 4-1-96

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

DATA NOT USED IN PACKAGE

| Type | | SAMPLE |
|---|---|---|
| BLANK | | |
| Work List | | |
| 7060 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.002 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| BLNK | µg of Cyanide | 0.013 |
| Instrument Code | µg CN- /mL | 2.52E-03 |
| 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| PJ MCOWN | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/29/96 | Detection Limit = ~~0.055~~ 0.19 Hea 4-1-96 µg Cyanide / SS (mL) * Digest Dilution Factor | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / mL |
|---|---|---|---|
| Calibration Date | | | |
| 02/23/96 | | | ~~1.10E-02~~ 3.8 e-2 Hea 4-1-96 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | H Anastos | Date: | 4-1-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

DATA NOT USED IN [illegible]

103 A-0 HLa 4-1-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 7060 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.002 |
| Matrix | Absorbance of Standard | | 0.620 |
| LIQUID | Y-Intercept Value | | 0.000194 |
| Sample # | Slope Value | | 0.143424 |
| STD/71N8G | µg of CN in Standard | | 4.308 |
| Instrument Code | | | |
| 301 | | | |
| Analyst | | | |
| PJ. McCOWN | | | |
| Date | µg of CN-/mL in Standard | | 862 |
| 03/29/96 | | | |
| Time | Standard % Recovery | | 94.2% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | H Anastn | Date: | 4-1-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

DATA NOT USED IN MANAGE

103 A-D HEA 4-1-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| | | |
|---|---|---|
| Type | | SAMPLE |
| SOLID | Sample Weight in grams (SS) | 1.49596 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 7060 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.002 |
| Matrix | Absorbance of Sample | 0.648 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # | Slope Value | 0.143424 |
| S96T000~~248~~ 258 RKA | µg of Cyanide | 4.503 |
| Instrument Code | µg CN- /g | 3.01E+01 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| PJ MCOWN | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/29/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |

| | | | |
|---|---|---|---|
| | Cyanide Concentration (µg/g) | 3.01E+01 | Detection Limit µg CN- / g |
| Calibration Date | | | |
| 02/23/96 | | | 1.27E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | J Anastas | Date: | 4-1-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

DATA NOT ... ACCEPTABLE

103 A-D HEA 4-1-96

## CN- DETERMINATION : LA-695-102 (E-0) BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| SOLID | Sample Weight in grams (SS) | 1.48565 |
| Work List | Dissolution Volume (EDTA/en + sample) in mL (DV) | 5.00000 |
| 7060 | Aliquot Analyzed from Dissolution (A) | 0.50000 |
| Test Code | Dilution Factor (DF) | 1.000 |
| CN-01 | Absorbance of Blank | 0.002 |
| Matrix | Absorbance of Sample | 0.781 |
| SOLID | Y-Intercept Value | 0.000194 |
| Sample # 258 | Slope Value | 0.143424 |
| S96T000248/DUP | µg of Cyanide | 5.430 |
| Instrument Code | µg CN- /g | 3.66E+01 |
| 301 | | |
| Analyst | µg of Cyanide = [(Absorb. of Sample - Absorb. of Blank) - (Y-Intercept)] / Slope Value | |
| PJ MCOWN | µg/g of Cyanide = (µg Cyanide / A) * (DV / SS (g)) * DF | |
| Date | | |
| 03/29/96 | Detection Limit = (0.19 µg Cyanide / A) * (DV / SS) * DF | |
| Time | v RESULTS v | |

| | | | |
|---|---|---|---|
| | Cyanide Concentration (µg/g) | 3.66E+01 | Detection Limit µg CN- / g |
| Calibration Date | | | |
| 02/23/96 | | | 1.28E+00 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | H Anastos | Date: | 4-1-96 |

Form 695102C1 Rev. 1.7

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

NOT USED IN PROCESS

103 A-D HEA 4-1-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ SPIKE, STANDARD

| | | SPIKE | NA |
|---|---|---|---|
| Type | | | |
| SPIKE | Spike Aliquot in mL | 0.250 | |
| Work List | Diluent + Spike Standard Volume | 25.00 | |
| 7060 | Diluted Spike Standard in mL | 0.250 | |
| Test Code | True Value CN- Concentration (µg/mL) | 915 | |
| CN-01 | Absorbance of Blank | 0.002 | |
| Matrix | Absorbance of Sample+Spike | 1.072 | |
| SOLID | Y-Intercept Value | 0.000194 | |
| Sample # | Slope Value | 0.143424 | |
| S96T000258 | µg of CN- in Sample+Spike | 7.459 | ERR |
| Instrument Code | | | |
| 301 | | | |
| Analyst | Known µg of CN- in Original Sample | 4.5030 | |
| PJ. McCOWN | | | |
| Date | µg of CN- in Spike | 2.2875 | |
| 03/29/96 | | | |
| Time | Spike % Recovery | 129.2% | |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/23/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample (Correced) = Known µg of CN- in Original Sample * g of Sample in Spike / g Used in Original Sample
µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg of CN- in Spike = LMCS Value (ppm) / Dilution Factor * Diluted Spike Standard
Dilution Factor = Spike Dilution Volume / Spike Aliquot
Spike % Recovery = (µg of CN- in Sample+Spike) - (µg of CN- in Sample) / (µg of CN- in Spike) * 100%

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | H Anastn | Date: | 4-1-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW-DO NOT WRITE IN SPACE

WHC-SD-WM-DP-103, REV. 1

103 A-0 HLA 4-1-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ SPIKE, STANDARD

| Type | | NA | STANDARD |
|---|---|---|---|
| STANDARD | Standard Aliquot in mL | | 0.250 |
| Work List | Diluent + Standard Volume | | 25.00 |
| 7060 | Diluted Standard in mL to be Analyzed | | 0.500 |
| Test Code | True Value CN- Concentration (µg/mL) | | 915 |
| CN-01 | Absorbance of Blank | | 0.002 |
| Matrix | Absorbance of Standard | | 0.614 |
| LIQUID | Y-Intercept Value | | 0.007237 |
| Sample # | Slope Value | | 0.147420 |
| STD/71N8G/CCV | µg of CN in Standard | | 4.102 |
| Instrument Code | | | |
| 301 | | | |
| Analyst | | | |
| PJ. McCOWN | | | |
| Date | µg of CN-/mL in Standard | | 820 |
| 03/29/96 | | | |
| Time | Standard % Recovery | | 89.7% |
| | | | |
| Calibration Date | Slope and Y-Intercept calculated from working curve calibration | | |
| 02/25/96 | Original Sample Calculation from Form 695102C1 | | |

µg of CN- in Sample+Spike = [(Absorbance of Sample+Spike - Absorbance of Blank) - (Y-Intercept)] / Slope Value
µg/mL of CN- = µg of CN- in Standard / Diluted Standard * Dilution Factor
Dilution Factor = Flask Volume / Standard Aliquot
Standard % Recovery = (µg of CN-/mL in Standard / True Value CN- Concentration (µg/mL)) * 100

| | | | |
|---|---|---|---|
| Data Entry by: | KTS | Date: | 03/29/96 |
| Approved by: | H Anastos | Date: | 4-1-96 |

Form X2 Rev. 1.0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-103, REV. 1

103 A-0 HRA 4-1-96

## CN- DETERMINATION : LA-695-~~102 (E-0)~~ BLANK, LIQUID, SOLID

| Type | | SAMPLE |
|---|---|---|
| BLANK | | |
| Work List | | |
| 7060 | Blank Aliquot in mL (SS) | 5.00000 |
| Test Code | Absorbance of Instrument Blank | 0.000 |
| CN-01 | Absorbance of Blank (Reagent, Prep) | 0.002 |
| Matrix | Digest Dilution Factor | 1 |
| LIQUID | Y-Intercept Value | 0.007237 |
| Sample # | Slope Value | 0.147420 |
| BLNK/CCB | µg of Cyanide | -0.036 |
| Instrument Code | µg CN- /mL | -7.10E-03 |
| 301 | | |
| Analyst | µg of Cyanide = [ \|Absorb. of Blank - Absorb. of Inst. Blank\| - (Y-Intercept)] / Slope Value | |
| PJ MCOWN | µg/mL of Cyanide = µg Cyanide * Digest Dilution Factor / SS (mL) | |
| Date | | |
| 03/29/96 | Detection Limit = 0.055 µg Cyanide / SS (mL) * Digest Dilution Factor | |
| Time | v RESULTS v | |

| | Cyanide Concentration (µg/mL) | < Detection Limit | Detection Limit µg CN- / mL |
|---|---|---|---|
| Calibration Date | | | |
| 02/25/96 | | | 1.10E-02 |

| | | | |
|---|---|---|---|
| Data Entry by: | RTS | Date: | 03/29/96 |
| Approved by: | HRnastr | Date: | 4-1-96 |

Form 695102C1 Rev. 1.7