

2. To: (Receiving Organization) Distribution		3. From: (Originating Organization) Plutonium Finishing Plant		4. Related EDT No.: N/A							
5. Proj./Prog./Dept./Div.: PFP Analytical Laboratory		6. Design Authority/Design Agent/Cog. Engr.: ST Hurlbut		7. Purchase Order No.: N/A							
8. Originator Remarks: Initial Release and Distribution Key Words: SigmaPlot, moisture, water, analysis, supercritical fluid, FTIR				9. Equip./Component No.: N/A							
				10. System/Bldg./Facility: PFP							
				12. Major Assm. Dwg. No.: N/A							
				13. Permit/Permit Application No.: N/A							
11. Receiver Remarks: 11A. Design Baseline Document? <input checked="" type="radio"/> Yes <input type="radio"/> No				14. Required Response Date: N/A							
15. DATA TRANSMITTED				(F)	(G)	(H)	(I)				
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Approval Designator	Reason for Transmittal	Originator Disposition	Receiver Disposition			
1	HNF-6994		0	Software Mgmt, Req, Design	Q	2					
2	HNF-6995 <i>49 for STH 9/18/00</i>		0	Software Test Plan	Q	2					
16. KEY											
Approval Designator (F)			Reason for Transmittal (G)			Disposition (H) & (I)					
E, S, Q, D OR N/A (See WHC-CM-3-S, Sec. 12.7)			1. Approval 2. Release 3. Information 4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)			1. Approved 2. Approved w/comment 3. Disapproved w/comment 4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged					
17. SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)											
(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN
2	1	Design Authority ST Hurlbut	<i>[Signature]</i>	9/2/00	T5-06						
		Design Agent				3		Central Files		BI-07	
		Cog. Eng.									
2	1	Cog. Mgr. EW Curfman	<i>[Signature]</i>	9/13/00	T5-05						
2	1	QA DR Groth	<i>[Signature]</i>	9/13/00	T4-15						
		Safety									
		Env.									
18. Signature of EDT Originator <i>[Signature]</i> 9/13/00			19. Authorized Representative for Receiving Organization Date			20. Design Authority/Cognizant Manager <i>[Signature]</i> 9/13/00			21. DOE APPROVAL (if required) Ctrl No. _____ <input type="radio"/> Approved <input type="radio"/> Approved w/comments <input type="radio"/> Disapproved w/comments		

SigmaPlot 2000, Version 6.00, SPSS Inc.

Computer Software Test Plan

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Project Hanford Management Contractor for the
U.S. Department of Energy under Contract DE-AC06-96RL13200

Fluor Hanford
P.O. Box 1000
Richland, Washington

SigmaPlot 2000, Version 6.00, SPSS Inc.

Computer Software Test Plan


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Date Published
September 2000

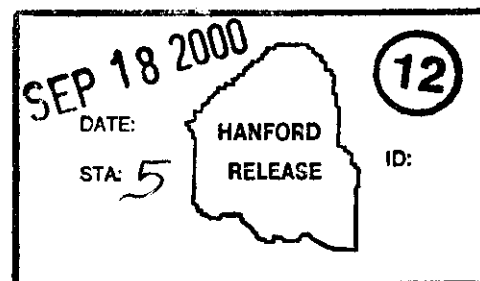
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Release Approval

9/14/00
Date



Release Stamp

HNF-6995
Revision 0

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Printed in the United States of America

Total Pages: 39

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PLUTONIUM FINISHING PLANT ANALYTICAL LABORATORY

**SigmaPlot 2000, Version 6.00, SPSS, Inc.
Computer Software Test Plan**

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Prepared by
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1.0 INTRODUCTION

1.1 Project Overview

SigmaPlot is a vendor software product used in conjunction with the supercritical fluid extraction Fourier transform infrared spectrometer (SFE-FTIR) system. This product converts the raw spectral data to useful area numbers. SigmaPlot will be used in conjunction with procedure ZA-565-301, "Determination of Moisture by Supercritical Fluid Extraction and Infrared Detection."

1.2 Product Perspective

SigmaPlot is a proprietary program provided by the SPSS, Inc.

2.0 TEST PLAN

2.1 Purpose

This test plan will be performed in conjunction with or prior to HNF-6936, "HA-53 Supercritical Fluid Extraction System Acceptance Test Plan", to perform analyses for water. The test will ensure that the software can be installed properly and will manipulate the analytical data correctly.

2.2 Test Items

This test document is specifically written to test the installation and operation of the SigmaPlot software in connection to the MIDAC FTIR.

2.3 Environmental Needs

SigmaPlot will be installed on a computer meeting the hardware requirements in the MIDAC User's Guide including the MIDAC supplied interface board. The computer will be connected to the MIDAC FTIR.

2.4 Responsibilities

The scientist responsible for the analytical procedure, ZA-565-301, shall be responsible for preparing the test and resolving any test-related issues. The test shall be witnessed by a PFPAL team leader/manager.

3.0 Test Design

3.1 Test Cases

Test cases and their test items will be executed in the order they are numbered. Results of the testing process, including visually observable results (error message generated, aborts, and requests for operation action) and notes on the successful execution of the test will be documented in each test case; Pass/Fail notes will be indicated on the test cases. Test cases are included in Appendix A of this document.

Test incidents, with the disposition of any anomalies discovered during testing, will be documented. Test problems/deficiencies/defects need to be noted on a test incident report, indicating the specific item where the problem occurred. Test incidents are integral to the test cases and will be kept with the record copies of the test cases. A sample test incident report is included in Appendix B. Actual test incident reports will be included in Appendix C.

At the successful completion of all test cases, a Test Summary report will be prepared. The Test Summary Report is included in Appendix D.

3.2 Pass/Fail Criteria

Acceptance criteria state the conditions that must be satisfied by the system or product before the user formally accepts the system. If a test case achieves all of its requirements, it is considered a PASS. If a test case does not achieve all of its requirements, it is considered a FAIL and must be corrected and retested. If the test produces a result that is not desirable by the user or the user's management and it meets the requirements detailed in the test case, a decision must be made to either change the requirement and retest, or PASS the test.

3.3 Test Case Identifier

All test cases will be uniquely identified by a test case number. Each test item will also be numbered to provide a means of identifying anomalies.

3.4 Input Specifications

Test data will be developed or provided to thoroughly test all areas of the system. Where possible, this data will be identified in such a way that the correct outcome is known in advance. Effectiveness of the data will be ensured through joint participation by user personnel. Transactions that are specifically designed to check internal controls and decision logic will be included.

3.5 Output Specifications

All elements within the system will meet or exceed the following requirements, as stated in the test cases.

- File data will be of documented length and type.
- Screens will be formatted and display/update data as documented.
- Reports will present data consistent with stated requirements.

3.6 Test Incident Report

Test incidents will be reported using the Test Incident report (See Appendix B). Required information is as follows:

- Test Case and test item numbers
- Date encountered
- Expected results
- Actual results
- Tester name
- Witness (if required)

These forms will be followed up with the users, users' manager and responsible scientist to determine course of action, which may include correction to the software or change to the requirement.

3.7 Test Summary

At the completion of the testing process, a test summary report will be completed (Appendix C). This report will evaluate and summarize the test results including the following:

- Identify the system and the items tested, indicating their revision identification.
- Indicate the environment in which the testing activities took place.
- State whether or not the system is ready for operation.
- Supply references to the following documentation if they exist: test plan, test design, test cases, and test incident report.

This Summary will also include a Test Verification Sheet to be signed by the appropriate persons to indicate the final validation and acceptance of the system.

4.0 REFERENCES

SigmaPlot User's Guide, SPSS, Inc.

ZA-565-301, *Determination of Moisture by Supercritical Fluid Extraction and Infrared Detection*, Fluor Hanford, Inc., Richland, WA

HNF-6936, *HA-53 Supercritical Fluid Extraction System Acceptance Test Plan*, Fluor Hanford, Inc., Richland, WA

APPENDIX A – TEST CASES

TEST STEP	ACTION	EXPECTED RESULT	PASS/FAIL	P/F ON RETEST
1.	Install software per vendor instructions.	The software installs.		
2.	Import text file (HNF6995.txt) containing spectral data.	File is imported without incident.		
3.	Edit file to eliminate data taken prior to CO ₂ flow.	Rows are deleted.		
4.	Perform area calculation	Relative area will be calculated.		
5.	Import text file (HNF6995x2.txt) containing modified (x2) spectral data.	File is imported without incident.		
6.	Edit file to eliminate data taken prior to CO ₂ flow.	Rows and columns are deleted.		
7.	Perform area calculation	Calculated area will be two times result from test 4.		
8.	Import text file (HNF6995x5.txt) containing modified (x5) spectral data.	File is imported without incident.		
9.	Edit file to eliminate data taken prior to CO ₂ flow.	Rows and columns are deleted.		
10.	Perform area calculation	Calculated area will be five times result from test 4.		

Tester Initials _____

(this should appear on each test case page)

APPENDIX B – TEST FILES**B-1**

Data to be used in test case 2.

HNF-6995 test data
LANL/Hanford Method

Concentrations in ppm

	Water Error+
C0001 2:16:07 PM 7/26/00	0.000 1695.15
C0002 2:16:08 PM 7/26/00	0.000 2453.71
C0003 2:16:10 PM 7/26/00	0.000 2312.79
C0004 2:16:11 PM 7/26/00	0.000 2190.79
C0005 2:16:13 PM 7/26/00	0.000 2280.17
C0006 2:16:14 PM 7/26/00	0.000 1861.90
C0007 2:16:16 PM 7/26/00	230.484 2576.06
C0008 2:16:17 PM 7/26/00	0.000 2023.02
C0009 2:16:19 PM 7/26/00	2972.595 3057.07
C0010 2:16:21 PM 7/26/00	0.000 2368.36
C0011 2:16:22 PM 7/26/00	2039.532 2439.07
C0012 2:16:23 PM 7/26/00	0.000 2500.78
C0013 2:16:25 PM 7/26/00	0.000 2581.86
C0014 2:16:26 PM 7/26/00	0.000 2068.27
C0015 2:16:28 PM 7/26/00	1858.942 2625.95
C0016 2:16:29 PM 7/26/00	0.000 2582.67
C0017 2:16:31 PM 7/26/00	0.000 2311.97
C0018 2:16:32 PM 7/26/00	0.000 2389.43
C0019 2:16:34 PM 7/26/00	3761.718 2616.44
C0020 2:16:35 PM 7/26/00	820.322 3041.07
C0021 2:16:37 PM 7/26/00	0.000 2123.77
C0022 2:16:38 PM 7/26/00	0.000 2203.30
C0023 2:16:40 PM 7/26/00	1034.019 2091.70
C0024 2:16:41 PM 7/26/00	0.000 2157.16
C0025 2:16:43 PM 7/26/00	3465.494 2594.54
C0026 2:16:44 PM 7/26/00	0.000 2269.84
C0027 2:16:46 PM 7/26/00	0.000 2234.01
C0028 2:16:47 PM 7/26/00	0.000 1990.38
C0029 2:16:49 PM 7/26/00	0.000 2457.22
C0030 2:16:50 PM 7/26/00	7.001 2798.82
C0031 2:16:52 PM 7/26/00	813.615 2573.27
C0032 2:16:53 PM 7/26/00	1594.341 2522.79
C0033 2:16:55 PM 7/26/00	618.431 2037.37
C0034 2:16:56 PM 7/26/00	0.000 2753.37
C0035 2:16:58 PM 7/26/00	0.000 2258.50
C0036 2:16:59 PM 7/26/00	0.000 2486.81
C0037 2:17:01 PM 7/26/00	0.000 2398.75
C0038 2:17:02 PM 7/26/00	4133.617 2310.70
C0039 2:17:04 PM 7/26/00	574.373 2381.76
C0040 2:17:05 PM 7/26/00	2072.105 2824.60
C0041 2:17:07 PM 7/26/00	0.000 2960.98
C0042 2:17:08 PM 7/26/00	0.000 2318.09
C0043 2:17:10 PM 7/26/00	777.836 2116.64
C0044 2:17:11 PM 7/26/00	0.000 2248.95
C0045 2:17:13 PM 7/26/00	0.000 2573.59
C0046 2:17:14 PM 7/26/00	0.000 3746.91

SigmaPlot

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C0047	2:17:16	PM	7/26/00	0.000	2510.04
C0048	2:17:17	PM	7/26/00	0.000	2222.56
C0049	2:17:19	PM	7/26/00	0.000	1592.52
C0050	2:17:20	PM	7/26/00	0.000	2345.07
C0051	2:17:22	PM	7/26/00	0.000	2639.74
C0052	2:17:23	PM	7/26/00	0.000	2027.53
C0053	2:17:25	PM	7/26/00	1817.870	2349.89
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C0055	2:17:28	PM	7/26/00	0.000	2183.38
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C0057	2:17:31	PM	7/26/00	2519.723	2416.46
C0058	2:17:32	PM	7/26/00	0.000	2447.10
C0059	2:17:34	PM	7/26/00	0.000	2092.07
C0060	2:17:35	PM	7/26/00	0.000	1900.53
C0061	2:17:37	PM	7/26/00	0.000	3006.39
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SigmaPlot

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C0125	2:19:14	PM	7/26/00	27978.167	3145.46
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C0158	2:20:03	PM	7/26/00	30310.748	3721.60

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C0160	2:20:06	PM	7/26/00	21292.237	3142.44
C0161	2:20:08	PM	7/26/00	30549.359	3448.92
C0162	2:20:09	PM	7/26/00	28726.496	3375.04
C0163	2:20:11	PM	7/26/00	26662.919	3670.30
C0164	2:20:12	PM	7/26/00	32222.098	4153.46
C0165	2:20:14	PM	7/26/00	28527.035	3487.87
C0166	2:20:15	PM	7/26/00	27603.301	4222.30
C0167	2:20:17	PM	7/26/00	26791.411	3678.28
C0168	2:20:18	PM	7/26/00	22921.546	4000.47
C0169	2:20:20	PM	7/26/00	26793.242	3615.21
C0170	2:20:21	PM	7/26/00	26799.504	4153.96
C0171	2:20:23	PM	7/26/00	28179.089	3948.62
C0172	2:20:24	PM	7/26/00	25880.803	3793.50
C0173	2:20:26	PM	7/26/00	26534.100	3552.78
C0174	2:20:27	PM	7/26/00	24354.770	3221.18
C0175	2:20:29	PM	7/26/00	26705.775	3409.30
C0176	2:20:30	PM	7/26/00	28199.597	2983.12
C0177	2:20:32	PM	7/26/00	31976.815	4144.30
C0178	2:20:33	PM	7/26/00	26535.811	3596.24
C0179	2:20:35	PM	7/26/00	24202.140	3254.32
C0180	2:20:36	PM	7/26/00	25038.962	2945.74
C0181	2:20:38	PM	7/26/00	27013.999	2953.62
C0182	2:20:39	PM	7/26/00	25741.572	3077.23
C0183	2:20:41	PM	7/26/00	22237.767	3887.23
C0184	2:20:42	PM	7/26/00	26551.024	3727.47
C0185	2:20:44	PM	7/26/00	23233.344	3289.86
C0186	2:20:45	PM	7/26/00	28364.800	3257.36
C0187	2:20:47	PM	7/26/00	26364.636	3839.27
C0188	2:20:48	PM	7/26/00	27462.781	3380.21
C0189	2:20:50	PM	7/26/00	28633.429	3413.47
C0190	2:20:51	PM	7/26/00	26589.240	3017.29
C0191	2:20:53	PM	7/26/00	24081.437	3500.86
C0192	2:20:54	PM	7/26/00	27575.961	3906.04
C0193	2:20:56	PM	7/26/00	25445.649	3028.10
C0194	2:20:57	PM	7/26/00	23899.957	2963.55
C0195	2:20:59	PM	7/26/00	25525.367	3253.78
C0196	2:21:00	PM	7/26/00	30321.843	3952.16
C0197	2:21:02	PM	7/26/00	25882.304	3470.53
C0198	2:21:03	PM	7/26/00	27283.950	3931.53
C0199	2:21:05	PM	7/26/00	30234.259	3245.29
C0200	2:21:06	PM	7/26/00	27932.652	3658.87
C0201	2:21:08	PM	7/26/00	28321.984	3356.50
C0202	2:21:09	PM	7/26/00	31766.798	4245.77
C0203	2:21:11	PM	7/26/00	29649.106	3598.41
C0204	2:21:12	PM	7/26/00	31006.998	3859.19
C0205	2:21:14	PM	7/26/00	31059.607	3606.27
C0206	2:21:15	PM	7/26/00	26394.913	4077.87
C0207	2:21:17	PM	7/26/00	30574.801	3545.75
C0208	2:21:18	PM	7/26/00	28032.450	3674.16
C0209	2:21:20	PM	7/26/00	25893.487	3390.70
C0210	2:21:21	PM	7/26/00	32742.003	4145.90
C0211	2:21:23	PM	7/26/00	33738.016	3924.32
C0212	2:21:24	PM	7/26/00	30354.086	4137.44
C0213	2:21:26	PM	7/26/00	32650.069	4329.52
C0214	2:21:27	PM	7/26/00	30437.743	3957.82

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C0215	2:21:29	PM	7/26/00	31647.618	3812.46
C0216	2:21:30	PM	7/26/00	29262.993	3346.66
C0217	2:21:32	PM	7/26/00	32863.020	3924.57
C0218	2:21:33	PM	7/26/00	33700.621	4529.34
C0219	2:21:35	PM	7/26/00	30359.736	3803.23
C0220	2:21:36	PM	7/26/00	31490.929	3964.95
C0221	2:21:38	PM	7/26/00	33791.483	3625.48
C0222	2:21:39	PM	7/26/00	34574.816	3673.17
C0223	2:21:41	PM	7/26/00	33529.875	3863.71
C0224	2:21:42	PM	7/26/00	32578.677	3220.90
C0225	2:21:44	PM	7/26/00	35630.011	3849.82
C0226	2:21:45	PM	7/26/00	33213.049	3128.27
C0227	2:21:47	PM	7/26/00	28488.860	3563.13
C0228	2:21:48	PM	7/26/00	34389.704	3025.68
C0229	2:21:50	PM	7/26/00	36859.053	4487.09
C0230	2:21:51	PM	7/26/00	31147.248	3913.35
C0231	2:21:53	PM	7/26/00	34463.843	3647.36
C0232	2:21:54	PM	7/26/00	29483.058	4048.04
C0233	2:21:56	PM	7/26/00	33440.718	3668.82
C0234	2:21:57	PM	7/26/00	31944.125	3485.30
C0235	2:21:59	PM	7/26/00	35608.568	3578.17
C0236	2:22:00	PM	7/26/00	34319.613	3651.03
C0237	2:22:02	PM	7/26/00	32745.531	3622.45
C0238	2:22:03	PM	7/26/00	36499.239	4282.63
C0239	2:22:05	PM	7/26/00	36638.861	4121.03
C0240	2:22:06	PM	7/26/00	32898.539	3644.89
C0241	2:22:08	PM	7/26/00	35877.505	3790.11
C0242	2:22:09	PM	7/26/00	37346.453	4358.80
C0243	2:22:11	PM	7/26/00	34704.867	4752.45
C0244	2:22:12	PM	7/26/00	34687.517	3990.07
C0245	2:22:14	PM	7/26/00	31832.705	3422.15
C0246	2:22:15	PM	7/26/00	32484.339	3910.86
C0247	2:22:17	PM	7/26/00	34649.435	3766.01
C0248	2:22:18	PM	7/26/00	35201.182	3799.17
C0249	2:22:20	PM	7/26/00	35478.663	4709.13
C0250	2:22:21	PM	7/26/00	36885.817	3709.44
C0251	2:22:23	PM	7/26/00	35904.516	3266.80
C0252	2:22:24	PM	7/26/00	36824.560	3869.56
C0253	2:22:26	PM	7/26/00	32874.606	3214.94
C0254	2:22:27	PM	7/26/00	35843.363	3856.96
C0255	2:22:29	PM	7/26/00	32385.249	3668.07
C0256	2:22:30	PM	7/26/00	33778.456	3809.25
C0257	2:22:32	PM	7/26/00	31345.036	4248.21
C0258	2:22:33	PM	7/26/00	35851.153	3776.29
C0259	2:22:35	PM	7/26/00	30322.577	3136.91
C0260	2:22:36	PM	7/26/00	31224.696	3984.12
C0261	2:22:38	PM	7/26/00	32884.375	3156.62
C0262	2:22:39	PM	7/26/00	32952.216	3821.48
C0263	2:22:41	PM	7/26/00	35045.637	3677.75
C0264	2:22:42	PM	7/26/00	32714.659	3747.65
C0265	2:22:44	PM	7/26/00	33852.377	4547.34
C0266	2:22:45	PM	7/26/00	31295.878	4183.04
C0267	2:22:47	PM	7/26/00	30901.450	3988.77
C0268	2:22:48	PM	7/26/00	30284.522	2974.95
C0269	2:22:50	PM	7/26/00	31714.758	4609.81
C0270	2:22:51	PM	7/26/00	30005.772	3695.73

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C0271	2:22:53	PM	7/26/00	31840.323	3683.31
C0272	2:22:54	PM	7/26/00	31968.142	3924.58
C0273	2:22:56	PM	7/26/00	28428.147	3869.81
C0274	2:22:57	PM	7/26/00	32198.447	4250.69
C0275	2:22:59	PM	7/26/00	24937.314	3731.80
C0276	2:23:00	PM	7/26/00	29024.430	3458.79
C0277	2:23:02	PM	7/26/00	25582.001	3874.96
C0278	2:23:03	PM	7/26/00	27403.834	3507.06
C0279	2:23:05	PM	7/26/00	28478.005	3564.28
C0280	2:23:06	PM	7/26/00	28300.061	4105.71
C0281	2:23:08	PM	7/26/00	32823.695	3701.63
C0282	2:23:09	PM	7/26/00	33387.923	4038.13
C0283	2:23:11	PM	7/26/00	29355.975	4069.06
C0284	2:23:12	PM	7/26/00	28382.937	3342.14
C0285	2:23:14	PM	7/26/00	30724.558	3885.39
C0286	2:23:15	PM	7/26/00	27757.153	3930.70
C0287	2:23:17	PM	7/26/00	26654.744	3628.65
C0288	2:23:18	PM	7/26/00	29990.040	3261.24
C0289	2:23:20	PM	7/26/00	26266.053	3459.46
C0290	2:23:21	PM	7/26/00	29792.382	3235.47
C0291	2:23:23	PM	7/26/00	29925.545	3502.24
C0292	2:23:24	PM	7/26/00	30293.686	3418.37
C0293	2:23:26	PM	7/26/00	26825.396	4055.88
C0294	2:23:27	PM	7/26/00	29884.793	3575.11
C0295	2:23:29	PM	7/26/00	28250.901	3292.14
C0296	2:23:30	PM	7/26/00	30777.533	3963.72
C0297	2:23:32	PM	7/26/00	29653.279	3900.37
C0298	2:23:33	PM	7/26/00	27579.669	3436.39
C0299	2:23:35	PM	7/26/00	30178.507	3094.71
C0300	2:23:36	PM	7/26/00	27131.350	4025.15
C0301	2:23:38	PM	7/26/00	29507.319	3365.78
C0302	2:23:39	PM	7/26/00	28113.906	3247.27
C0303	2:23:41	PM	7/26/00	26782.962	3094.40
C0304	2:23:42	PM	7/26/00	27328.093	3513.01
C0305	2:23:44	PM	7/26/00	26860.833	3711.70
C0306	2:23:45	PM	7/26/00	26112.717	3287.34
C0307	2:23:47	PM	7/26/00	21395.226	4076.16
C0308	2:23:48	PM	7/26/00	31272.902	3859.81
C0309	2:23:50	PM	7/26/00	24051.959	3337.18
C0310	2:23:51	PM	7/26/00	25725.613	3330.59
C0311	2:23:53	PM	7/26/00	27228.003	3652.81
C0312	2:23:54	PM	7/26/00	27745.228	3113.10
C0313	2:23:56	PM	7/26/00	27373.109	4399.35
C0314	2:23:57	PM	7/26/00	21812.266	3722.86
C0315	2:23:59	PM	7/26/00	23507.422	3142.66
C0316	2:24:00	PM	7/26/00	23778.373	3798.10
C0317	2:24:02	PM	7/26/00	25942.109	3072.82
C0318	2:24:03	PM	7/26/00	22442.252	2980.11
C0319	2:24:05	PM	7/26/00	21822.560	3092.58
C0320	2:24:06	PM	7/26/00	18035.495	2912.99
C0321	2:24:08	PM	7/26/00	25489.463	3736.60
C0322	2:24:09	PM	7/26/00	22873.700	3774.43
C0323	2:24:11	PM	7/26/00	21416.791	3131.43
C0324	2:24:12	PM	7/26/00	23502.534	3486.31
C0325	2:24:14	PM	7/26/00	24115.811	3803.97
C0326	2:24:15	PM	7/26/00	24576.760	3449.46

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C0327	2:24:17	PM	7/26/00	23888.621	3175.93
C0328	2:24:18	PM	7/26/00	24000.169	3598.02
C0329	2:24:20	PM	7/26/00	24567.090	2929.50
C0330	2:24:21	PM	7/26/00	25748.959	2916.39
C0331	2:24:23	PM	7/26/00	23310.981	3091.68
C0332	2:24:24	PM	7/26/00	22802.783	2698.84
C0333	2:24:26	PM	7/26/00	22879.992	2794.63
C0334	2:24:27	PM	7/26/00	21162.784	2946.51
C0335	2:24:29	PM	7/26/00	24048.325	3646.58
C0336	2:24:30	PM	7/26/00	24313.494	3005.26
C0337	2:24:32	PM	7/26/00	25619.977	3654.70
C0338	2:24:33	PM	7/26/00	26966.153	3049.35
C0339	2:24:35	PM	7/26/00	25932.460	3518.13
C0340	2:24:36	PM	7/26/00	25394.488	3868.30
C0341	2:24:38	PM	7/26/00	24978.652	3482.48
C0342	2:24:39	PM	7/26/00	20440.158	2804.54
C0343	2:24:41	PM	7/26/00	21886.004	3764.29
C0344	2:24:42	PM	7/26/00	24246.953	2925.65
C0345	2:24:44	PM	7/26/00	21099.011	3283.58
C0346	2:24:45	PM	7/26/00	23150.609	2807.46
C0347	2:24:47	PM	7/26/00	22958.947	2762.59
C0348	2:24:48	PM	7/26/00	23018.359	2992.89
C0349	2:24:50	PM	7/26/00	21419.499	3500.46
C0350	2:24:51	PM	7/26/00	27343.861	3640.12
C0351	2:24:53	PM	7/26/00	23912.667	3424.29
C0352	2:24:54	PM	7/26/00	24836.896	3419.49
C0353	2:24:56	PM	7/26/00	26569.596	3157.41
C0354	2:24:57	PM	7/26/00	25064.933	3640.00
C0355	2:24:58	PM	7/26/00	20635.182	3773.69
C0356	2:25:00	PM	7/26/00	20538.947	3179.46
C0357	2:25:02	PM	7/26/00	25076.962	3587.41
C0358	2:25:03	PM	7/26/00	23602.759	3020.96
C0359	2:25:04	PM	7/26/00	21612.731	3427.49
C0360	2:25:06	PM	7/26/00	24007.445	3349.98
C0361	2:25:07	PM	7/26/00	24302.872	3939.99
C0362	2:25:09	PM	7/26/00	22236.476	2231.78
C0363	2:25:11	PM	7/26/00	24636.008	3471.28
C0364	2:25:12	PM	7/26/00	20822.600	3014.64
C0365	2:25:13	PM	7/26/00	21019.397	2851.44
C0366	2:25:15	PM	7/26/00	22433.364	3111.93
C0367	2:25:16	PM	7/26/00	22064.208	3249.69
C0368	2:25:18	PM	7/26/00	21084.077	2882.38
C0369	2:25:19	PM	7/26/00	21893.208	3179.37
C0370	2:25:21	PM	7/26/00	27672.114	3801.80
C0371	2:25:22	PM	7/26/00	26189.412	3475.45
C0372	2:25:24	PM	7/26/00	22717.831	2876.32
C0373	2:25:26	PM	7/26/00	25578.850	2649.80
C0374	2:25:27	PM	7/26/00	20088.712	3678.27
C0375	2:25:28	PM	7/26/00	17014.007	2788.90
C0376	2:25:30	PM	7/26/00	23888.718	3705.79
C0377	2:25:31	PM	7/26/00	20986.472	3570.82
C0378	2:25:33	PM	7/26/00	21909.566	3716.36
C0379	2:25:34	PM	7/26/00	24098.067	3847.28
C0380	2:25:36	PM	7/26/00	26538.645	3827.31
C0381	2:25:37	PM	7/26/00	17865.829	3434.50
C0382	2:25:39	PM	7/26/00	24256.942	3078.79

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C0383	2:25:41	PM	7/26/00	24758.229	3109.65
C0384	2:25:42	PM	7/26/00	21157.056	3708.63
C0385	2:25:43	PM	7/26/00	21189.982	3623.08
C0386	2:25:45	PM	7/26/00	20237.721	3808.42
C0387	2:25:46	PM	7/26/00	22054.143	3668.96
C0388	2:25:48	PM	7/26/00	21247.605	3523.73
C0389	2:25:49	PM	7/26/00	24010.442	4215.80
C0390	2:25:51	PM	7/26/00	22697.261	3250.56
C0391	2:25:52	PM	7/26/00	23696.826	2852.43
C0392	2:25:54	PM	7/26/00	23055.587	3949.45
C0393	2:25:55	PM	7/26/00	20172.215	3660.05
C0394	2:25:57	PM	7/26/00	23269.555	3464.92
C0395	2:25:58	PM	7/26/00	22356.238	3332.22
C0396	2:26:00	PM	7/26/00	25455.447	2979.81
C0397	2:26:01	PM	7/26/00	21675.170	3124.18
C0398	2:26:03	PM	7/26/00	22449.263	3239.85
C0399	2:26:04	PM	7/26/00	20228.608	3260.80
C0400	2:26:06	PM	7/26/00	20907.140	3409.71

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Data to be used in test case 5.

HNF-6995x2 test data

LANL/Hanford Method

Concentrations in ppm

		Water Error+		
C0001	7/26/00	14:16:07	0	1695.15
C0002	7/26/00	14:16:08	0	2453.71
C0003	7/26/00	14:16:10	0	2312.79
C0004	7/26/00	14:16:11	0	2190.79
C0005	7/26/00	14:16:13	0	2280.17
C0006	7/26/00	14:16:14	0	1861.9
C0007	7/26/00	14:16:16	460.968	2576.06
C0008	7/26/00	14:16:17	0	2023.02
C0009	7/26/00	14:16:19	5945.19	3057.07
C0010	7/26/00	14:16:21	0	2368.36
C0011	7/26/00	14:16:22	4079.064	2439.07
C0012	7/26/00	14:16:23	0	2500.78
C0013	7/26/00	14:16:25	0	2581.86
C0014	7/26/00	14:16:26	0	2068.27
C0015	7/26/00	14:16:28	3717.884	2625.95
C0016	7/26/00	14:16:29	0	2582.67
C0017	7/26/00	14:16:31	0	2311.97
C0018	7/26/00	14:16:32	0	2389.43
C0019	7/26/00	14:16:34	7523.436	2616.44
C0020	7/26/00	14:16:35	1640.644	3041.07
C0021	7/26/00	14:16:37	0	2123.77
C0022	7/26/00	14:16:38	0	2203.3
C0023	7/26/00	14:16:40	2068.038	2091.7
C0024	7/26/00	14:16:41	0	2157.16
C0025	7/26/00	14:16:43	6930.988	2594.54
C0026	7/26/00	14:16:44	0	2269.84
C0027	7/26/00	14:16:46	0	2234.01
C0028	7/26/00	14:16:47	0	1990.38
C0029	7/26/00	14:16:49	0	2457.22
C0030	7/26/00	14:16:50	14.002	2798.82
C0031	7/26/00	14:16:52	1627.23	2573.27
C0032	7/26/00	14:16:53	3188.682	2522.79
C0033	7/26/00	14:16:55	1236.862	2037.37
C0034	7/26/00	14:16:56	0	2753.37
C0035	7/26/00	14:16:58	0	2258.5
C0036	7/26/00	14:16:59	0	2486.81
C0037	7/26/00	14:17:01	0	2398.75
C0038	7/26/00	14:17:02	8267.234	2310.7
C0039	7/26/00	14:17:04	1148.746	2381.76
C0040	7/26/00	14:17:05	4144.21	2824.6
C0041	7/26/00	14:17:07	0	2960.98
C0042	7/26/00	14:17:08	0	2318.09
C0043	7/26/00	14:17:10	1555.672	2116.64
C0044	7/26/00	14:17:11	0	2248.95
C0045	7/26/00	14:17:13	0	2573.59
C0046	7/26/00	14:17:14	0	3746.91
C0047	7/26/00	14:17:16	0	2510.04
C0048	7/26/00	14:17:17	0	2222.56

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C0049	7/26/00	14:17:19	0	1592.52	
C0050	7/26/00	14:17:20	0	2345.07	
C0051	7/26/00	14:17:22	0	2639.74	
C0052	7/26/00	14:17:23	0	2027.53	
C0053	7/26/00	14:17:25	3635.74		2349.89
C0054	7/26/00	14:17:26	0	2421.62	
C0055	7/26/00	14:17:28	0	2183.38	
C0056	7/26/00	14:17:29	1511.642		1588.13
C0057	7/26/00	14:17:31	5039.446		2416.46
C0058	7/26/00	14:17:32	0	2447.1	
C0059	7/26/00	14:17:34	0	2092.07	
C0060	7/26/00	14:17:35	0	1900.53	
C0061	7/26/00	14:17:37	0	3006.39	
C0062	7/26/00	14:17:38	0	2517.04	
C0063	7/26/00	14:17:40	0	2148.03	
C0064	7/26/00	14:17:41	93.434		2430.5
C0065	7/26/00	14:17:43	0	2045.69	
C0066	7/26/00	14:17:44	0	2060.38	
C0067	7/26/00	14:17:46	4805.934		2831.03
C0068	7/26/00	14:17:47	0	2108.01	
C0069	7/26/00	14:17:49	0	2291.37	
C0070	7/26/00	14:17:50	0	2368.06	
C0071	7/26/00	14:17:52	5404.78		8035
C0072	7/26/00	14:17:53	0	2392.6	
C0073	7/26/00	14:17:55	1675.818		2243.56
C0074	7/26/00	14:17:56	0	1804.4	
C0075	7/26/00	14:17:58	0	2152.06	
C0076	7/26/00	14:17:59	0	1773.66	
C0077	7/26/00	14:18:01	0	2219.75	
C0078	7/26/00	14:18:02	0	1547.76	
C0079	7/26/00	14:18:04	0	1872.81	
C0080	7/26/00	14:18:05	8139.46		1258.63
C0081	7/26/00	14:18:07	156.696		2775.59
C0082	7/26/00	14:18:08	0	2542.08	
C0083	7/26/00	14:18:10	0	2196.72	
C0084	7/26/00	14:18:11	690.466		1909.64
C0085	7/26/00	14:18:13	0	1564.14	
C0086	7/26/00	14:18:14	0	1920.59	
C0087	7/26/00	14:18:16	0	2320.68	
C0088	7/26/00	14:18:17	0	2104.53	
C0089	7/26/00	14:18:19	0	1718.32	
C0090	7/26/00	14:18:20	936.62		2020.15
C0091	7/26/00	14:18:22	6226.104		1471.62
C0092	7/26/00	14:18:23	0	1951.29	
C0093	7/26/00	14:18:25	0	2690.95	
C0094	7/26/00	14:18:26	0	1858.39	
C0095	7/26/00	14:18:28	4861.9		4713.22
C0096	7/26/00	14:18:29	2207.04		6950.01
C0097	7/26/00	14:18:31	0	8002.47	
C0098	7/26/00	14:18:32	0	6990.52	
C0099	7/26/00	14:18:34	0	5781.74	
C0100	7/26/00	14:18:35	0	5961.12	
C0101	7/26/00	14:18:37	6123.904		3694.2
C0102	7/26/00	14:18:38	0	3941.19	
C0103	7/26/00	14:18:40	0	3672.04	
C0104	7/26/00	14:18:41	4995.408		2826.68

C0105	7/26/00	14:18:43	0	1519.57
C0106	7/26/00	14:18:44	92.826	2840.6
C0107	7/26/00	14:18:46	0	2192.68
C0108	7/26/00	14:18:47	622.224	1868.83
C0109	7/26/00	14:18:50	48768.014	2647.81
C0110	7/26/00	14:18:52	37562.7	2936.09
C0111	7/26/00	14:18:53	38243.334	3961.02
C0112	7/26/00	14:18:55	42796.968	3448.65
C0113	7/26/00	14:18:56	38822.344	2899.09
C0114	7/26/00	14:18:58	37682.83	2793.44
C0115	7/26/00	14:18:59	33658.984	2906.88
C0116	7/26/00	14:19:01	35757.116	3657.23
C0117	7/26/00	14:19:02	33500.026	2896.06
C0118	7/26/00	14:19:04	32855.928	2924.8
C0119	7/26/00	14:19:05	30457.438	3452.61
C0120	7/26/00	14:19:07	36599.176	2902.45
C0121	7/26/00	14:19:08	35740.03	2532.09
C0122	7/26/00	14:19:10	41102.224	2927.84
C0123	7/26/00	14:19:11	46791.764	3979.4
C0124	7/26/00	14:19:13	58213.4	3505.07
C0125	7/26/00	14:19:14	55956.334	3145.46
C0126	7/26/00	14:19:16	52627.404	2985.4
C0127	7/26/00	14:19:17	61564.904	4037.43
C0128	7/26/00	14:19:19	68288.182	3839.62
C0129	7/26/00	14:19:20	55998.842	3754.3
C0130	7/26/00	14:19:22	55762.582	2844.22
C0131	7/26/00	14:19:23	58914.03	3629.77
C0132	7/26/00	14:19:25	49995.606	3382.96
C0133	7/26/00	14:19:26	56949.96	3787.61
C0134	7/26/00	14:19:28	55892.85	2992.75
C0135	7/26/00	14:19:29	57898.95	3699.72
C0136	7/26/00	14:19:31	66359.372	3648.46
C0137	7/26/00	14:19:32	56764.382	4176.71
C0138	7/26/00	14:19:33	61636.094	4110.75
C0139	7/26/00	14:19:35	63294.206	3999.12
C0140	7/26/00	14:19:36	57811.658	3870.79
C0141	7/26/00	14:19:38	50913.59	3447.89
C0142	7/26/00	14:19:39	58681.016	4141.14
C0143	7/26/00	14:19:41	58050.962	4141.64
C0144	7/26/00	14:19:42	49754.698	2802.05
C0145	7/26/00	14:19:44	57248.544	3714.42
C0146	7/26/00	14:19:45	47377.404	3965.29
C0147	7/26/00	14:19:47	50974.924	3545.44
C0148	7/26/00	14:19:48	52131.31	4074.37
C0149	7/26/00	14:19:50	45056.46	3313.4
C0150	7/26/00	14:19:51	43265.208	3555.7
C0151	7/26/00	14:19:53	55205.128	3421.6
C0152	7/26/00	14:19:54	53848.612	3265.41
C0153	7/26/00	14:19:56	56327.326	4689.83
C0154	7/26/00	14:19:57	40460.86	3372.25
C0155	7/26/00	14:19:59	52793.146	2805.49
C0156	7/26/00	14:20:00	53010.594	3332.41
C0157	7/26/00	14:20:02	49461.476	3850.73
C0158	7/26/00	14:20:03	60621.496	3721.6
C0159	7/26/00	14:20:05	55024.79	3546.45
C0160	7/26/00	14:20:06	42584.474	3142.44

C0161	7/26/00	14:20:08	61098.718	3448.92
C0162	7/26/00	14:20:09	57452.992	3375.04
C0163	7/26/00	14:20:11	53325.838	3670.3
C0164	7/26/00	14:20:12	64444.196	4153.46
C0165	7/26/00	14:20:14	57054.07	3487.87
C0166	7/26/00	14:20:15	55206.602	4222.3
C0167	7/26/00	14:20:17	53582.822	3678.28
C0168	7/26/00	14:20:18	45843.092	4000.47
C0169	7/26/00	14:20:20	53586.484	3615.21
C0170	7/26/00	14:20:21	53599.008	4153.96
C0171	7/26/00	14:20:23	56358.178	3948.62
C0172	7/26/00	14:20:24	51761.606	3793.5
C0173	7/26/00	14:20:26	53068.2	3552.78
C0174	7/26/00	14:20:27	48709.54	3221.18
C0175	7/26/00	14:20:29	53411.55	3409.3
C0176	7/26/00	14:20:30	56399.194	2983.12
C0177	7/26/00	14:20:32	63953.63	4144.3
C0178	7/26/00	14:20:33	53071.622	3596.24
C0179	7/26/00	14:20:35	48404.28	3254.32
C0180	7/26/00	14:20:36	50077.924	2945.74
C0181	7/26/00	14:20:38	54027.998	2953.62
C0182	7/26/00	14:20:39	51483.144	3077.23
C0183	7/26/00	14:20:41	44475.534	3887.23
C0184	7/26/00	14:20:42	53102.048	3727.47
C0185	7/26/00	14:20:44	46466.688	3289.86
C0186	7/26/00	14:20:45	56729.6	3257.36
C0187	7/26/00	14:20:47	52729.272	3839.27
C0188	7/26/00	14:20:48	54925.562	3380.21
C0189	7/26/00	14:20:50	57266.858	3413.47
C0190	7/26/00	14:20:51	53178.48	3017.29
C0191	7/26/00	14:20:53	48162.874	3500.86
C0192	7/26/00	14:20:54	55151.922	3906.04
C0193	7/26/00	14:20:56	50891.298	3028.1
C0194	7/26/00	14:20:57	47799.914	2963.55
C0195	7/26/00	14:20:59	51050.734	3253.78
C0196	7/26/00	14:21:00	60643.686	3952.16
C0197	7/26/00	14:21:02	51764.608	3470.53
C0198	7/26/00	14:21:03	54567.9	3931.53
C0199	7/26/00	14:21:05	60468.518	3245.29
C0200	7/26/00	14:21:06	55865.304	3658.87
C0201	7/26/00	14:21:08	56643.968	3356.5
C0202	7/26/00	14:21:09	63533.596	4245.77
C0203	7/26/00	14:21:11	59298.212	3598.41
C0204	7/26/00	14:21:12	62013.996	3859.19
C0205	7/26/00	14:21:14	62119.214	3606.27
C0206	7/26/00	14:21:15	52789.826	4077.87
C0207	7/26/00	14:21:17	61149.602	3545.75
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C0209	7/26/00	14:21:20	51786.974	3390.7
C0210	7/26/00	14:21:21	65484.006	4145.9
C0211	7/26/00	14:21:23	67476.032	3924.32
C0212	7/26/00	14:21:24	60708.172	4137.44
C0213	7/26/00	14:21:26	65300.138	4329.52
C0214	7/26/00	14:21:27	60875.486	3957.82
C0215	7/26/00	14:21:29	63295.236	3812.46
C0216	7/26/00	14:21:30	58525.986	3346.66

C0217	7/26/00	14:21:32	65726.04	3924.57
C0218	7/26/00	14:21:33	67401.242	4529.34
C0219	7/26/00	14:21:35	60719.472	3803.23
C0220	7/26/00	14:21:36	62981.858	3964.95
C0221	7/26/00	14:21:38	67582.966	3625.48
C0222	7/26/00	14:21:39	69149.632	3673.17
C0223	7/26/00	14:21:41	67059.75	3863.71
C0224	7/26/00	14:21:42	65157.354	3220.9
C0225	7/26/00	14:21:44	71260.022	3849.82
C0226	7/26/00	14:21:45	66426.098	3128.27
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C0228	7/26/00	14:21:48	68779.408	3025.68
C0229	7/26/00	14:21:50	73718.106	4487.09
C0230	7/26/00	14:21:51	62294.496	3913.35
C0231	7/26/00	14:21:53	68927.686	3647.36
C0232	7/26/00	14:21:54	58966.116	4048.04
C0233	7/26/00	14:21:56	66881.436	3668.82
C0234	7/26/00	14:21:57	63888.25	3485.3
C0235	7/26/00	14:21:59	71217.136	3578.17
C0236	7/26/00	14:22:00	68639.226	3651.03
C0237	7/26/00	14:22:02	65491.062	3622.45
C0238	7/26/00	14:22:03	72998.478	4282.63
C0239	7/26/00	14:22:05	73277.722	4121.03
C0240	7/26/00	14:22:06	65797.078	3644.89
C0241	7/26/00	14:22:08	71755.01	3790.11
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C0243	7/26/00	14:22:11	69409.734	4752.45
C0244	7/26/00	14:22:12	69375.034	3990.07
C0245	7/26/00	14:22:14	63665.41	3422.15
C0246	7/26/00	14:22:15	64968.678	3910.86
C0247	7/26/00	14:22:17	69298.87	3766.01
C0248	7/26/00	14:22:18	70402.364	3799.17
C0249	7/26/00	14:22:20	70957.326	4709.13
C0250	7/26/00	14:22:21	73771.634	3709.44
C0251	7/26/00	14:22:23	71809.032	3266.8
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C0253	7/26/00	14:22:26	65749.212	3214.94
C0254	7/26/00	14:22:27	71686.726	3856.96
C0255	7/26/00	14:22:29	64770.498	3668.07
C0256	7/26/00	14:22:30	67556.912	3809.25
C0257	7/26/00	14:22:32	62690.072	4248.21
C0258	7/26/00	14:22:33	71702.306	3776.29
C0259	7/26/00	14:22:35	60645.154	3136.91
C0260	7/26/00	14:22:36	62449.392	3984.12
C0261	7/26/00	14:22:38	65768.75	3156.62
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C0263	7/26/00	14:22:41	70091.274	3677.75
C0264	7/26/00	14:22:42	65429.318	3747.65
C0265	7/26/00	14:22:44	67704.754	4547.34
C0266	7/26/00	14:22:45	62591.756	4183.04
C0267	7/26/00	14:22:47	61802.9	3988.77
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C0269	7/26/00	14:22:50	63429.516	4609.81
C0270	7/26/00	14:22:51	60011.544	3695.73
C0271	7/26/00	14:22:53	63680.646	3683.31
C0272	7/26/00	14:22:54	63936.284	3924.58

C0273	7/26/00	14:22:56	56856.294	3869.81
C0274	7/26/00	14:22:57	64396.894	4250.69
C0275	7/26/00	14:22:59	49874.628	3731.8
C0276	7/26/00	14:23:00	58048.86	3458.79
C0277	7/26/00	14:23:02	51164.002	3874.96
C0278	7/26/00	14:23:03	54807.668	3507.06
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C0281	7/26/00	14:23:08	65647.39	3701.63
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C0283	7/26/00	14:23:11	58711.95	4069.06
C0284	7/26/00	14:23:12	56765.874	3342.14
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C0286	7/26/00	14:23:15	55514.306	3930.7
C0287	7/26/00	14:23:17	53309.488	3628.65
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C0291	7/26/00	14:23:23	59851.09	3502.24
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C0294	7/26/00	14:23:27	59769.586	3575.11
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C0296	7/26/00	14:23:30	61555.066	3963.72
C0297	7/26/00	14:23:32	59306.558	3900.37
C0298	7/26/00	14:23:33	55159.338	3436.39
C0299	7/26/00	14:23:35	60357.014	3094.71
C0300	7/26/00	14:23:36	54262.7	4025.15
C0301	7/26/00	14:23:38	59014.638	3365.78
C0302	7/26/00	14:23:39	56227.812	3247.27
C0303	7/26/00	14:23:41	53565.924	3094.4
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C0305	7/26/00	14:23:44	53721.666	3711.7
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C0307	7/26/00	14:23:47	42790.452	4076.16
C0308	7/26/00	14:23:48	62545.804	3859.81
C0309	7/26/00	14:23:50	48103.918	3337.18
C0310	7/26/00	14:23:51	51451.226	3330.59
C0311	7/26/00	14:23:53	54456.006	3652.81
C0312	7/26/00	14:23:54	55490.456	3113.1
C0313	7/26/00	14:23:56	54746.218	4399.35
C0314	7/26/00	14:23:57	43624.532	3722.86
C0315	7/26/00	14:23:59	47014.844	3142.66
C0316	7/26/00	14:24:00	47556.746	3798.1
C0317	7/26/00	14:24:02	51884.218	3072.82
C0318	7/26/00	14:24:03	44884.504	2980.11
C0319	7/26/00	14:24:05	43645.12	3092.58
C0320	7/26/00	14:24:06	36070.99	2912.99
C0321	7/26/00	14:24:08	50978.926	3736.6
C0322	7/26/00	14:24:09	45747.4	3774.43
C0323	7/26/00	14:24:11	42833.582	3131.43
C0324	7/26/00	14:24:12	47005.068	3486.31
C0325	7/26/00	14:24:14	48231.622	3803.97
C0326	7/26/00	14:24:15	49153.52	3449.46
C0327	7/26/00	14:24:17	47777.242	3175.93
C0328	7/26/00	14:24:18	48000.338	3598.02

C0329	7/26/00	14:24:20	49134.18	2929.5
C0330	7/26/00	14:24:21	51497.918	2916.39
C0331	7/26/00	14:24:23	46621.962	3091.68
C0332	7/26/00	14:24:24	45605.566	2698.84
C0333	7/26/00	14:24:26	45759.984	2794.63
C0334	7/26/00	14:24:27	42325.568	2946.51
C0335	7/26/00	14:24:29	48096.65	3646.58
C0336	7/26/00	14:24:30	48626.988	3005.26
C0337	7/26/00	14:24:32	51239.954	3654.7
C0338	7/26/00	14:24:33	53932.306	3049.35
C0339	7/26/00	14:24:35	51864.92	3518.13
C0340	7/26/00	14:24:36	50788.976	3868.3
C0341	7/26/00	14:24:38	49957.304	3482.48
C0342	7/26/00	14:24:39	40880.316	2804.54
C0343	7/26/00	14:24:41	43772.008	3764.29
C0344	7/26/00	14:24:42	48493.906	2925.65
C0345	7/26/00	14:24:44	42198.022	3283.58
C0346	7/26/00	14:24:45	46301.218	2807.46
C0347	7/26/00	14:24:47	45917.894	2762.59
C0348	7/26/00	14:24:48	46036.718	2992.89
C0349	7/26/00	14:24:50	42838.998	3500.46
C0350	7/26/00	14:24:51	54687.722	3640.12
C0351	7/26/00	14:24:53	47825.334	3424.29
C0352	7/26/00	14:24:54	49673.792	3419.49
C0353	7/26/00	14:24:56	53139.192	3157.41
C0354	7/26/00	14:24:57	50129.866	3640
C0355	7/26/00	14:24:58	41270.364	3773.69
C0356	7/26/00	14:25:00	41077.894	3179.46
C0357	7/26/00	14:25:02	50153.924	3587.41
C0358	7/26/00	14:25:03	47205.518	3020.96
C0359	7/26/00	14:25:04	43225.462	3427.49
C0360	7/26/00	14:25:06	48014.89	3349.98
C0361	7/26/00	14:25:07	48605.744	3939.99
C0362	7/26/00	14:25:09	44472.952	2231.78
C0363	7/26/00	14:25:11	49272.016	3471.28
C0364	7/26/00	14:25:12	41645.2	3014.64
C0365	7/26/00	14:25:13	42038.794	2851.44
C0366	7/26/00	14:25:15	44866.728	3111.93
C0367	7/26/00	14:25:16	44128.416	3249.69
C0368	7/26/00	14:25:18	42168.154	2882.38
C0369	7/26/00	14:25:19	43786.416	3179.37
C0370	7/26/00	14:25:21	55344.228	3801.8
C0371	7/26/00	14:25:22	52378.824	3475.45
C0372	7/26/00	14:25:24	45435.662	2876.32
C0373	7/26/00	14:25:26	51157.7	2649.8
C0374	7/26/00	14:25:27	40177.424	3678.27
C0375	7/26/00	14:25:28	34028.014	2788.9
C0376	7/26/00	14:25:30	47777.436	3705.79
C0377	7/26/00	14:25:31	41972.944	3570.82
C0378	7/26/00	14:25:33	43819.132	3716.36
C0379	7/26/00	14:25:34	48196.134	3847.28
C0380	7/26/00	14:25:36	53077.29	3827.31
C0381	7/26/00	14:25:37	35731.658	3434.5
C0382	7/26/00	14:25:39	48513.884	3078.79
C0383	7/26/00	14:25:41	49516.458	3109.65
C0384	7/26/00	14:25:42	42314.112	3708.63

SigmaPlot

HNF-6995

09/12/2000

Revision 0

C0385	7/26/00	14:25:43	42379.964	3623.08
C0386	7/26/00	14:25:45	40475.442	3808.42
C0387	7/26/00	14:25:46	44108.286	3668.96
C0388	7/26/00	14:25:48	42495.21	3523.73
C0389	7/26/00	14:25:49	48020.884	4215.8
C0390	7/26/00	14:25:51	45394.522	3250.56
C0391	7/26/00	14:25:52	47393.652	2852.43
C0392	7/26/00	14:25:54	46111.174	3949.45
C0393	7/26/00	14:25:55	40344.43	3660.05
C0394	7/26/00	14:25:57	46539.11	3464.92
C0395	7/26/00	14:25:58	44712.476	3332.22
C0396	7/26/00	14:26:00	50910.894	2979.81
C0397	7/26/00	14:26:01	43350.34	3124.18
C0398	7/26/00	14:26:03	44898.526	3239.85
C0399	7/26/00	14:26:04	40457.216	3260.8
C0400	7/26/00	14:26:06	41814.28	3409.71

B-3

Data to be used in test case 8.

HNF-6995x5 test data

LANL/Hanford Method

Concentrations in ppm

	Water Error+	
C0001	7/26/00 14:16:07 0	1695.15
C0002	7/26/00 14:16:08 0	2453.71
C0003	7/26/00 14:16:10 0	2312.79
C0004	7/26/00 14:16:11 0	2190.79
C0005	7/26/00 14:16:13 0	2280.17
C0006	7/26/00 14:16:14 0	1861.9
C0007	7/26/00 14:16:16 1152.42	2576.06
C0008	7/26/00 14:16:17 0	2023.02
C0009	7/26/00 14:16:19 14862.975	3057.07
C0010	7/26/00 14:16:21 0	2368.36
C0011	7/26/00 14:16:22 10197.66	2439.07
C0012	7/26/00 14:16:23 0	2500.78
C0013	7/26/00 14:16:25 0	2581.86
C0014	7/26/00 14:16:26 0	2068.27
C0015	7/26/00 14:16:28 9294.71	2625.95
C0016	7/26/00 14:16:29 0	2582.67
C0017	7/26/00 14:16:31 0	2311.97
C0018	7/26/00 14:16:32 0	2389.43
C0019	7/26/00 14:16:34 18808.59	2616.44
C0020	7/26/00 14:16:35 4101.61	3041.07
C0021	7/26/00 14:16:37 0	2123.77
C0022	7/26/00 14:16:38 0	2203.3
C0023	7/26/00 14:16:40 5170.095	2091.7
C0024	7/26/00 14:16:41 0	2157.16
C0025	7/26/00 14:16:43 17327.47	2594.54
C0026	7/26/00 14:16:44 0	2269.84
C0027	7/26/00 14:16:46 0	2234.01
C0028	7/26/00 14:16:47 0	1990.38
C0029	7/26/00 14:16:49 0	2457.22
C0030	7/26/00 14:16:50 35.005	2798.82
C0031	7/26/00 14:16:52 4068.075	2573.27
C0032	7/26/00 14:16:53 7971.705	2522.79
C0033	7/26/00 14:16:55 3092.155	2037.37
C0034	7/26/00 14:16:56 0	2753.37
C0035	7/26/00 14:16:58 0	2258.5
C0036	7/26/00 14:16:59 0	2486.81
C0037	7/26/00 14:17:01 0	2398.75
C0038	7/26/00 14:17:02 20668.085	2310.7
C0039	7/26/00 14:17:04 2871.865	2381.76
C0040	7/26/00 14:17:05 10360.525	2824.6
C0041	7/26/00 14:17:07 0	2960.98
C0042	7/26/00 14:17:08 0	2318.09
C0043	7/26/00 14:17:10 3889.18	2116.64
C0044	7/26/00 14:17:11 0	2248.95
C0045	7/26/00 14:17:13 0	2573.59
C0046	7/26/00 14:17:14 0	3746.91
C0047	7/26/00 14:17:16 0	2510.04
C0048	7/26/00 14:17:17 0	2222.56

C0049	7/26/00	14:17:19	0	1592.52	
C0050	7/26/00	14:17:20	0	2345.07	
C0051	7/26/00	14:17:22	0	2639.74	
C0052	7/26/00	14:17:23	0	2027.53	
C0053	7/26/00	14:17:25	9089.35	2349.89	
C0054	7/26/00	14:17:26	0	2421.62	
C0055	7/26/00	14:17:28	0	2183.38	
C0056	7/26/00	14:17:29	3779.105	1588.13	
C0057	7/26/00	14:17:31	12598.615	2416.46	
C0058	7/26/00	14:17:32	0	2447.1	
C0059	7/26/00	14:17:34	0	2092.07	
C0060	7/26/00	14:17:35	0	1900.53	
C0061	7/26/00	14:17:37	0	3006.39	
C0062	7/26/00	14:17:38	0	2517.04	
C0063	7/26/00	14:17:40	0	2148.03	
C0064	7/26/00	14:17:41	233.585	2430.5	
C0065	7/26/00	14:17:43	0	2045.69	
C0066	7/26/00	14:17:44	0	2060.38	
C0067	7/26/00	14:17:46	12014.835	2831.03	
C0068	7/26/00	14:17:47	0	2108.01	
C0069	7/26/00	14:17:49	0	2291.37	
C0070	7/26/00	14:17:50	0	2368.06	
C0071	7/26/00	14:17:52	13511.95	8035	
C0072	7/26/00	14:17:53	0	2392.6	
C0073	7/26/00	14:17:55	4189.545	2243.56	
C0074	7/26/00	14:17:56	0	1804.4	
C0075	7/26/00	14:17:58	0	2152.06	
C0076	7/26/00	14:17:59	0	1773.66	
C0077	7/26/00	14:18:01	0	2219.75	
C0078	7/26/00	14:18:02	0	1547.76	
C0079	7/26/00	14:18:04	0	1872.81	
C0080	7/26/00	14:18:05	20348.65	1258.63	
C0081	7/26/00	14:18:07	391.74	2775.59	
C0082	7/26/00	14:18:08	0	2542.08	
C0083	7/26/00	14:18:10	0	2196.72	
C0084	7/26/00	14:18:11	1726.165	1909.64	
C0085	7/26/00	14:18:13	0	1564.14	
C0086	7/26/00	14:18:14	0	1920.59	
C0087	7/26/00	14:18:16	0	2320.68	
C0088	7/26/00	14:18:17	0	2104.53	
C0089	7/26/00	14:18:19	0	1718.32	
C0090	7/26/00	14:18:20	2341.55	2020.15	
C0091	7/26/00	14:18:22	15565.26	1471.62	
C0092	7/26/00	14:18:23	0	1951.29	
C0093	7/26/00	14:18:25	0	2690.95	
C0094	7/26/00	14:18:26	0	1858.39	
C0095	7/26/00	14:18:28	12154.75	4713.22	
C0096	7/26/00	14:18:29	5517.6	6950.01	
C0097	7/26/00	14:18:31	0	8002.47	
C0098	7/26/00	14:18:32	0	6990.52	
C0099	7/26/00	14:18:34	0	5781.74	
C0100	7/26/00	14:18:35	0	5961.12	
C0101	7/26/00	14:18:37	15309.76	3694.2	
C0102	7/26/00	14:18:38	0	3941.19	
C0103	7/26/00	14:18:40	0	3672.04	
C0104	7/26/00	14:18:41	12488.52	2826.68	

C0105	7/26/00	14:18:43	0	1519.57
C0106	7/26/00	14:18:44	232.065	2840.6
C0107	7/26/00	14:18:46	0	2192.68
C0108	7/26/00	14:18:47	1555.56	1868.83
C0109	7/26/00	14:18:50	121920.035	2647.81
C0110	7/26/00	14:18:52	93906.75	2936.09
C0111	7/26/00	14:18:53	95608.335	3961.02
C0112	7/26/00	14:18:55	106992.42	3448.65
C0113	7/26/00	14:18:56	97055.86	2899.09
C0114	7/26/00	14:18:58	94207.075	2793.44
C0115	7/26/00	14:18:59	84147.46	2906.88
C0116	7/26/00	14:19:01	89392.79	3657.23
C0117	7/26/00	14:19:02	83750.065	2896.06
C0118	7/26/00	14:19:04	82139.82	2924.8
C0119	7/26/00	14:19:05	76143.595	3452.61
C0120	7/26/00	14:19:07	91497.94	2902.45
C0121	7/26/00	14:19:08	89350.075	2532.09
C0122	7/26/00	14:19:10	102755.56	2927.84
C0123	7/26/00	14:19:11	116979.41	3979.4
C0124	7/26/00	14:19:13	145533.5	3505.07
C0125	7/26/00	14:19:14	139890.835	3145.46
C0126	7/26/00	14:19:16	131568.51	2985.4
C0127	7/26/00	14:19:17	153912.26	4037.43
C0128	7/26/00	14:19:19	170720.455	3839.62
C0129	7/26/00	14:19:20	139997.105	3754.3
C0130	7/26/00	14:19:22	139406.455	2844.22
C0131	7/26/00	14:19:23	147285.075	3629.77
C0132	7/26/00	14:19:25	124989.015	3382.96
C0133	7/26/00	14:19:26	142374.9	3787.61
C0134	7/26/00	14:19:28	139732.125	2992.75
C0135	7/26/00	14:19:29	144747.375	3699.72
C0136	7/26/00	14:19:31	165898.43	3648.46
C0137	7/26/00	14:19:32	141910.955	4176.71
C0138	7/26/00	14:19:33	154090.235	4110.75
C0139	7/26/00	14:19:35	158235.515	3999.12
C0140	7/26/00	14:19:36	144529.145	3870.79
C0141	7/26/00	14:19:38	127283.975	3447.89
C0142	7/26/00	14:19:39	146702.54	4141.14
C0143	7/26/00	14:19:41	145127.405	4141.64
C0144	7/26/00	14:19:42	124386.745	2802.05
C0145	7/26/00	14:19:44	143121.36	3714.42
C0146	7/26/00	14:19:45	118443.51	3965.29
C0147	7/26/00	14:19:47	127437.31	3545.44
C0148	7/26/00	14:19:48	130328.275	4074.37
C0149	7/26/00	14:19:50	112641.15	3313.4
C0150	7/26/00	14:19:51	108163.02	3555.7
C0151	7/26/00	14:19:53	138012.82	3421.6
C0152	7/26/00	14:19:54	134621.53	3265.41
C0153	7/26/00	14:19:56	140818.315	4689.83
C0154	7/26/00	14:19:57	101152.15	3372.25
C0155	7/26/00	14:19:59	131982.865	2805.49
C0156	7/26/00	14:20:00	132526.485	3332.41
C0157	7/26/00	14:20:02	123653.69	3850.73
C0158	7/26/00	14:20:03	151553.74	3721.6
C0159	7/26/00	14:20:05	137561.975	3546.45
C0160	7/26/00	14:20:06	106461.185	3142.44

C0161	7/26/00	14:20:08	152746.795	3448.92
C0162	7/26/00	14:20:09	143632.48	3375.04
C0163	7/26/00	14:20:11	133314.595	3670.3
C0164	7/26/00	14:20:12	161110.49	4153.46
C0165	7/26/00	14:20:14	142635.175	3487.87
C0166	7/26/00	14:20:15	138016.505	4222.3
C0167	7/26/00	14:20:17	133957.055	3678.28
C0168	7/26/00	14:20:18	114607.73	4000.47
C0169	7/26/00	14:20:20	133966.21	3615.21
C0170	7/26/00	14:20:21	133997.52	4153.96
C0171	7/26/00	14:20:23	140895.445	3948.62
C0172	7/26/00	14:20:24	129404.015	3793.5
C0173	7/26/00	14:20:26	132670.5	3552.78
C0174	7/26/00	14:20:27	121773.85	3221.18
C0175	7/26/00	14:20:29	133528.875	3409.3
C0176	7/26/00	14:20:30	140997.985	2983.12
C0177	7/26/00	14:20:32	159884.075	4144.3
C0178	7/26/00	14:20:33	132679.055	3596.24
C0179	7/26/00	14:20:35	121010.7	3254.32
C0180	7/26/00	14:20:36	125194.81	2945.74
C0181	7/26/00	14:20:38	135069.995	2953.62
C0182	7/26/00	14:20:39	128707.86	3077.23
C0183	7/26/00	14:20:41	111188.835	3887.23
C0184	7/26/00	14:20:42	132755.12	3727.47
C0185	7/26/00	14:20:44	116166.72	3289.86
C0186	7/26/00	14:20:45	141824	3257.36
C0187	7/26/00	14:20:47	131823.18	3839.27
C0188	7/26/00	14:20:48	137313.905	3380.21
C0189	7/26/00	14:20:50	143167.145	3413.47
C0190	7/26/00	14:20:51	132946.2	3017.29
C0191	7/26/00	14:20:53	120407.185	3500.86
C0192	7/26/00	14:20:54	137879.805	3906.04
C0193	7/26/00	14:20:56	127228.245	3028.1
C0194	7/26/00	14:20:57	119499.785	2963.55
C0195	7/26/00	14:20:59	127626.835	3253.78
C0196	7/26/00	14:21:00	151609.215	3952.16
C0197	7/26/00	14:21:02	129411.52	3470.53
C0198	7/26/00	14:21:03	136419.75	3931.53
C0199	7/26/00	14:21:05	151171.295	3245.29
C0200	7/26/00	14:21:06	139663.26	3658.87
C0201	7/26/00	14:21:08	141609.92	3356.5
C0202	7/26/00	14:21:09	158833.99	4245.77
C0203	7/26/00	14:21:11	148245.53	3598.41
C0204	7/26/00	14:21:12	155034.99	3859.19
C0205	7/26/00	14:21:14	155298.035	3606.27
C0206	7/26/00	14:21:15	131974.565	4077.87
C0207	7/26/00	14:21:17	152874.005	3545.75
C0208	7/26/00	14:21:18	140162.25	3674.16
C0209	7/26/00	14:21:20	129467.435	3390.7
C0210	7/26/00	14:21:21	163710.015	4145.9
C0211	7/26/00	14:21:23	168690.08	3924.32
C0212	7/26/00	14:21:24	151770.43	4137.44
C0213	7/26/00	14:21:26	163250.345	4329.52
C0214	7/26/00	14:21:27	152188.715	3957.82
C0215	7/26/00	14:21:29	158238.09	3812.46
C0216	7/26/00	14:21:30	146314.965	3346.66

C0217	7/26/00	14:21:32	164315.1	3924.57
C0218	7/26/00	14:21:33	168503.105	4529.34
C0219	7/26/00	14:21:35	151798.68	3803.23
C0220	7/26/00	14:21:36	157454.645	3964.95
C0221	7/26/00	14:21:38	168957.415	3625.48
C0222	7/26/00	14:21:39	172874.08	3673.17
C0223	7/26/00	14:21:41	167649.375	3863.71
C0224	7/26/00	14:21:42	162893.385	3220.9
C0225	7/26/00	14:21:44	178150.055	3849.82
C0226	7/26/00	14:21:45	166065.245	3128.27
C0227	7/26/00	14:21:47	142444.3	3563.13
C0228	7/26/00	14:21:48	171948.52	3025.68
C0229	7/26/00	14:21:50	184295.265	4487.09
C0230	7/26/00	14:21:51	155736.24	3913.35
C0231	7/26/00	14:21:53	172319.215	3647.36
C0232	7/26/00	14:21:54	147415.29	4048.04
C0233	7/26/00	14:21:56	167203.59	3668.82
C0234	7/26/00	14:21:57	159720.625	3485.3
C0235	7/26/00	14:21:59	178042.84	3578.17
C0236	7/26/00	14:22:00	171598.065	3651.03
C0237	7/26/00	14:22:02	163727.655	3622.45
C0238	7/26/00	14:22:03	182496.195	4282.63
C0239	7/26/00	14:22:05	183194.305	4121.03
C0240	7/26/00	14:22:06	164492.695	3644.89
C0241	7/26/00	14:22:08	179387.525	3790.11
C0242	7/26/00	14:22:09	186732.265	4358.8
C0243	7/26/00	14:22:11	173524.335	4752.45
C0244	7/26/00	14:22:12	173437.585	3990.07
C0245	7/26/00	14:22:14	159163.525	3422.15
C0246	7/26/00	14:22:15	162421.695	3910.86
C0247	7/26/00	14:22:17	173247.175	3766.01
C0248	7/26/00	14:22:18	176005.91	3799.17
C0249	7/26/00	14:22:20	177393.315	4709.13
C0250	7/26/00	14:22:21	184429.085	3709.44
C0251	7/26/00	14:22:23	179522.58	3266.8
C0252	7/26/00	14:22:24	184122.8	3869.56
C0253	7/26/00	14:22:26	164373.03	3214.94
C0254	7/26/00	14:22:27	179216.815	3856.96
C0255	7/26/00	14:22:29	161926.245	3668.07
C0256	7/26/00	14:22:30	168892.28	3809.25
C0257	7/26/00	14:22:32	156725.18	4248.21
C0258	7/26/00	14:22:33	179255.765	3776.29
C0259	7/26/00	14:22:35	151612.885	3136.91
C0260	7/26/00	14:22:36	156123.48	3984.12
C0261	7/26/00	14:22:38	164421.875	3156.62
C0262	7/26/00	14:22:39	164761.08	3821.48
C0263	7/26/00	14:22:41	175228.185	3677.75
C0264	7/26/00	14:22:42	163573.295	3747.65
C0265	7/26/00	14:22:44	169261.885	4547.34
C0266	7/26/00	14:22:45	156479.39	4183.04
C0267	7/26/00	14:22:47	154507.25	3988.77
C0268	7/26/00	14:22:48	151422.61	2974.95
C0269	7/26/00	14:22:50	158573.79	4609.81
C0270	7/26/00	14:22:51	150028.86	3695.73
C0271	7/26/00	14:22:53	159201.615	3683.31
C0272	7/26/00	14:22:54	159840.71	3924.58

C0273	7/26/00	14:22:56	142140.735	3869.81
C0274	7/26/00	14:22:57	160992.235	4250.69
C0275	7/26/00	14:22:59	124686.57	3731.8
C0276	7/26/00	14:23:00	145122.15	3458.79
C0277	7/26/00	14:23:02	127910.005	3874.96
C0278	7/26/00	14:23:03	137019.17	3507.06
C0279	7/26/00	14:23:05	142390.025	3564.28
C0280	7/26/00	14:23:06	141500.305	4105.71
C0281	7/26/00	14:23:08	164118.475	3701.63
C0282	7/26/00	14:23:09	166939.615	4038.13
C0283	7/26/00	14:23:11	146779.875	4069.06
C0284	7/26/00	14:23:12	141914.685	3342.14
C0285	7/26/00	14:23:14	153622.79	3885.39
C0286	7/26/00	14:23:15	138785.765	3930.7
C0287	7/26/00	14:23:17	133273.72	3628.65
C0288	7/26/00	14:23:18	149950.2	3261.24
C0289	7/26/00	14:23:20	131330.265	3459.46
C0290	7/26/00	14:23:21	148961.91	3235.47
C0291	7/26/00	14:23:23	149627.725	3502.24
C0292	7/26/00	14:23:24	151468.43	3418.37
C0293	7/26/00	14:23:26	134126.98	4055.88
C0294	7/26/00	14:23:27	149423.965	3575.11
C0295	7/26/00	14:23:29	141254.505	3292.14
C0296	7/26/00	14:23:30	153887.665	3963.72
C0297	7/26/00	14:23:32	148266.395	3900.37
C0298	7/26/00	14:23:33	137898.345	3436.39
C0299	7/26/00	14:23:35	150892.535	3094.71
C0300	7/26/00	14:23:36	135656.75	4025.15
C0301	7/26/00	14:23:38	147536.595	3365.78
C0302	7/26/00	14:23:39	140569.53	3247.27
C0303	7/26/00	14:23:41	133914.81	3094.4
C0304	7/26/00	14:23:42	136640.465	3513.01
C0305	7/26/00	14:23:44	134304.165	3711.7
C0306	7/26/00	14:23:45	130563.585	3287.34
C0307	7/26/00	14:23:47	106976.13	4076.16
C0308	7/26/00	14:23:48	156364.51	3859.81
C0309	7/26/00	14:23:50	120259.795	3337.18
C0310	7/26/00	14:23:51	128628.065	3330.59
C0311	7/26/00	14:23:53	136140.015	3652.81
C0312	7/26/00	14:23:54	138726.14	3113.1
C0313	7/26/00	14:23:56	136865.545	4399.35
C0314	7/26/00	14:23:57	109061.33	3722.86
C0315	7/26/00	14:23:59	117537.11	3142.66
C0316	7/26/00	14:24:00	118891.865	3798.1
C0317	7/26/00	14:24:02	129710.545	3072.82
C0318	7/26/00	14:24:03	112211.26	2980.11
C0319	7/26/00	14:24:05	109112.8	3092.58
C0320	7/26/00	14:24:06	90177.475	2912.99
C0321	7/26/00	14:24:08	127447.315	3736.6
C0322	7/26/00	14:24:09	114368.5	3774.43
C0323	7/26/00	14:24:11	107083.955	3131.43
C0324	7/26/00	14:24:12	117512.67	3486.31
C0325	7/26/00	14:24:14	120579.055	3803.97
C0326	7/26/00	14:24:15	122883.8	3449.46
C0327	7/26/00	14:24:17	119443.105	3175.93
C0328	7/26/00	14:24:18	120000.845	3598.02

C0329	7/26/00	14:24:20	122835.45	2929.5
C0330	7/26/00	14:24:21	128744.795	2916.39
C0331	7/26/00	14:24:23	116554.905	3091.68
C0332	7/26/00	14:24:24	114013.915	2698.84
C0333	7/26/00	14:24:26	114399.96	2794.63
C0334	7/26/00	14:24:27	105813.92	2946.51
C0335	7/26/00	14:24:29	120241.625	3646.58
C0336	7/26/00	14:24:30	121567.47	3005.26
C0337	7/26/00	14:24:32	128099.885	3654.7
C0338	7/26/00	14:24:33	134830.765	3049.35
C0339	7/26/00	14:24:35	129662.3	3518.13
C0340	7/26/00	14:24:36	126972.44	3868.3
C0341	7/26/00	14:24:38	124893.26	3482.48
C0342	7/26/00	14:24:39	102200.79	2804.54
C0343	7/26/00	14:24:41	109430.02	3764.29
C0344	7/26/00	14:24:42	121234.765	2925.65
C0345	7/26/00	14:24:44	105495.055	3283.58
C0346	7/26/00	14:24:45	115753.045	2807.46
C0347	7/26/00	14:24:47	114794.735	2762.59
C0348	7/26/00	14:24:48	115091.795	2992.89
C0349	7/26/00	14:24:50	107097.495	3500.46
C0350	7/26/00	14:24:51	136719.305	3640.12
C0351	7/26/00	14:24:53	119563.335	3424.29
C0352	7/26/00	14:24:54	124184.48	3419.49
C0353	7/26/00	14:24:56	132847.98	3157.41
C0354	7/26/00	14:24:57	125324.665	3640
C0355	7/26/00	14:24:58	103175.91	3773.69
C0356	7/26/00	14:25:00	102694.735	3179.46
C0357	7/26/00	14:25:02	125384.81	3587.41
C0358	7/26/00	14:25:03	118013.795	3020.96
C0359	7/26/00	14:25:04	108063.655	3427.49
C0360	7/26/00	14:25:06	120037.225	3349.98
C0361	7/26/00	14:25:07	121514.36	3939.99
C0362	7/26/00	14:25:09	111182.38	2231.78
C0363	7/26/00	14:25:11	123180.04	3471.28
C0364	7/26/00	14:25:12	104113	3014.64
C0365	7/26/00	14:25:13	105096.985	2851.44
C0366	7/26/00	14:25:15	112166.82	3111.93
C0367	7/26/00	14:25:16	110321.04	3249.69
C0368	7/26/00	14:25:18	105420.385	2882.38
C0369	7/26/00	14:25:19	109466.04	3179.37
C0370	7/26/00	14:25:21	138360.57	3801.8
C0371	7/26/00	14:25:22	130947.06	3475.45
C0372	7/26/00	14:25:24	113589.155	2876.32
C0373	7/26/00	14:25:26	127894.25	2649.8
C0374	7/26/00	14:25:27	100443.56	3678.27
C0375	7/26/00	14:25:28	85070.035	2788.9
C0376	7/26/00	14:25:30	119443.59	3705.79
C0377	7/26/00	14:25:31	104932.36	3570.82
C0378	7/26/00	14:25:33	109547.83	3716.36
C0379	7/26/00	14:25:34	120490.335	3847.28
C0380	7/26/00	14:25:36	132693.225	3827.31
C0381	7/26/00	14:25:37	89329.145	3434.5
C0382	7/26/00	14:25:39	121284.71	3078.79
C0383	7/26/00	14:25:41	123791.145	3109.65
C0384	7/26/00	14:25:42	105785.28	3708.63

SigmaPlot

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C0385	7/26/00	14:25:43	105949.91	3623.08
C0386	7/26/00	14:25:45	101188.605	3808.42
C0387	7/26/00	14:25:46	110270.715	3668.96
C0388	7/26/00	14:25:48	106238.025	3523.73
C0389	7/26/00	14:25:49	120052.21	4215.8
C0390	7/26/00	14:25:51	113486.305	3250.56
C0391	7/26/00	14:25:52	118484.13	2852.43
C0392	7/26/00	14:25:54	115277.935	3949.45
C0393	7/26/00	14:25:55	100861.075	3660.05
C0394	7/26/00	14:25:57	116347.775	3464.92
C0395	7/26/00	14:25:58	111781.19	3332.22
C0396	7/26/00	14:26:00	127277.235	2979.81
C0397	7/26/00	14:26:01	108375.85	3124.18
C0398	7/26/00	14:26:03	112246.315	3239.85
C0399	7/26/00	14:26:04	101143.04	3260.8
C0400	7/26/00	14:26:06	104535.7	3409.71

Incident Identification

Incident No.	Date	Test Case No.	Item No.
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Determination

Action Taken:

Incident Documented:

Test Performer _____
Date _____

Test Witness _____ Date _____

Test Administrator
Date

Correction Verified:

Test Performer
Date

Test Witness _____ Date _____

Test Administrator
Date

APPENDIX D – TEST INCIDENT REPORTS

Incident reports, if any will be generated at the conclusion of testing.

APPENDIX E – TEST REPORT**1.0 SUMMARY**

Evaluate and summarize the test results. Identify the system and the items tested, indicating their revision identification. Indicate the environment in which the testing activities took place. State whether or not the system is ready for operation. Supply references to the following documentation if they exist: test plan, test design, test procedures, test item transmittal reports, test logs, and test incident report.

2.0 VARIANCES

Report any variances of the test items from their design specifications. Indicate any variances from the test plan, test designs, or test procedures during the testing. Specify the reason for each variance.

3.0 COMPREHENSIVE ASSESSMENT

Evaluate the comprehensiveness of the testing process against the acceptance criteria. Identify features or feature combinations that were not sufficiently tested, and explain the reasons.

4.0 SUMMARY OF RESULTS

Summarize the results of testing. Identify all resolved incidents, and summarize their resolutions. Identify all unresolved incidents and the impact on placing the system into operation.

5.0 EVALUATION

Provide an overall evaluation of each test item, based upon the test results. Provide an estimate of failure risk.

6.0 SUMMARY OF ACTIVITIES

Summarize the major testing activities and events. Summarize resource consumption data, for example, total staffing level, total machine time, and total elapsed time used for each of the major testing activities.

7.0 APPROVALS

Specify the names and titles of all persons who must approve this report. Provide space for signatures and dates.

_____	_____
	Date
_____	_____
	Date
_____	_____
	Date