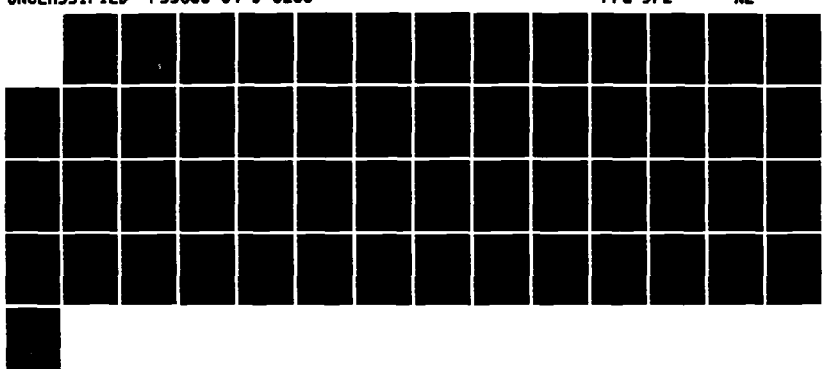
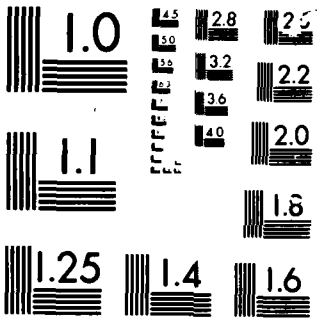
AD-A166 925 ADA (TRADEMARK) COMPILER VALIDATION SUMMARY REPORT: 1/1
TELESOFT ADA COMPILER VERSION 2.0A6 FOR VAX-11/780 USING
VMS 3.4(U) SOFTECH INC FAIRBORN OH 05 FEB 85
UNCLASSIFIED F33600-84-D-0280 F/G 9/2 NL





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Ada® Compiler Validation Summary Report:
TeleSoft Ada Compiler
Version 2.0a6
For VAX-11/780,
Using VMS 3.4

(Final)

Contract F33600-84-D-0280
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5 February 1985

Prepared for:

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The purpose of this report is to present the results and conclusions of performing standardized tests on the TeleSoft Ada Compiler by the Ada Validation Facility, according to the policies and procedures of the Ada Validation Office. The TeleSoft Ada Compiler is hosted on the TeleSoft VAX-11/780 under VMS 3.4.

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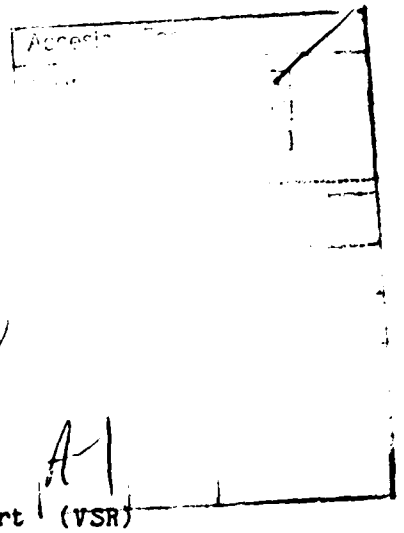

ABSTRACT

The purpose of this Validation Summary Report (VSR) is to present the results and conclusions of performing standardized tests on the TeleSoft Ada Compiler. On-site testing was performed 26-29 NOV 84 at TeleSoft, Inc. in San Diego CA, under the auspices of the Ada Validation Facility (AVF), according to the Ada Validation Office (AVO) policies and procedures. The TeleSoft Ada Compiler (Version 2.0a6) is hosted on TeleSoft's VAX-11/780 Computer operating under VMS 3.4. The suite of tests known as the Ada Compiler Validation Capability (ACVC), Version 1.4, was used. The ACVC suite of tests is used to validate conformance of the compiler to ANSI/MIL-STD-1815A (Ada). This standard is described in the ANSI Ada Reference Manual, January 1983. Not all tests in the ACVC test suite are applicable to a specific implementation. Also, known test errors in Version 1.4 are present in some tests; these tests were withdrawn. The purpose of the testing is to ensure that the compiler properly implements legal language constructs and that it identify, reject from processing, and label illegal language constructs. The testing also identifies implementation-dependent behavior permitted by the standard. Six classes of tests are used. These tests are designed to perform checks at compile time, during execution, and at link time. The ACVC, Version 1.4, contains 2178 tests, of which 1874 were applicable to this implementation. Of the 1874 applicable tests, 73 were withdrawn due to the occurrence of errors in the tests. Results showed that all of the remaining 1801 valid tests were successfully passed by the TeleSoft Ada Compiler. No nonconformances to the Ada Standard were detected. A complete list of tests and results is provided in this report. The AVF concluded that the results obtained show acceptable compliance to the January 1983 ANSI Ada Reference Manual.

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CHAPTER 5 SUMMARY AND CONCLUSIONS

APPENDIX A COMPLETE LIST OF TESTS AND RESULTS

CHAPTER 1

INTRODUCTION

1.1 PURPOSE OF THE VALIDATION SUMMARY REPORT

This report describes the results of the validation effort for the following Ada translator:

Host Machine:	VAX-11/780
Operating System:	VMS 3.4
Host Disk System:	RM05
Target Machine:	VAX-11/780
Operating System:	VMS 3.4
Language Version:	ANSI/MIL-STD-1815A Ada
Translator Name:	TeleSoft Ada
Translator Version:	2.0a6
Validator Version:	1.4

Testing of this translator was conducted by SofTech, Inc. under the supervision of the Ada Validation Facility (AVF), at the direction of the Ada Joint Program Office (AJPO). Testing was conducted from 26 NOV 84 through 29 NOV 84 at TeleSoft, Inc., San Diego CA in accordance with Ada Validation Office (AVO) policies and procedures.

The purpose of this report is to document the results of the testing performed on the compiler. Testing was carried out with specific emphasis on the following factors:

- to identify any language constructs supported by the translator that do not conform to the Ada Standard

- to identify any unsupported language constructs required by the Ada Standard
- to describe implementation-dependent behavior allowed by the Standard

1.2 USE OF THE VALIDATION SUMMARY REPORT

The Ada Validation Office may make full and free public disclosure of this report in accordance with the "Freedom of Information Act" (5 U.S.C. #552). The results of the validation are only for the purpose of satisfying United States Government requirements and apply only to the computers, operating systems, and compiler version identified in this report.

The Ada Compiler Validation Capability is used to determine, insofar as is practical, the degree to which the subject compiler conforms to the Ada Standard. Thus, this report is necessarily discretionary and judgmental. The United States Government does not represent or warrant that the statements, or any one of them, set forth in this report are accurate or complete, nor that the subject compiler has no other nonconformances to the Ada Standard. This report is not meant to be used for the purpose of publicizing the findings summarized therein.

Questions regarding this report or the validation tests should be sent to:

Ada Validation Facility (ASD/SIOL)
Computer Operations Division
Information Systems and Technology Center
Wright-Patterson AFB OH 45433-6503

1.3 REFERENCES

Reference Manual for the Ada Programming Language, ANSI/MIL-STD-1815A, February 1983.

Ada Validation Organization: Policies and Procedures, Mitre Corporation, June 1982, PB 83-110601.

Ada Compiler Validation Implementers' Guide, SofTech, Inc., October 1980.

"The Ada Compiler Validation Capability," Computer, Vol. 14, No. 6, June 1981.

Using the ACVC Tests, SofTech, Inc., February 1984.

1.4 DEFINITIONS OF TERMS

Class A tests are passed if no errors are detected at compile time. Although these tests are constructed to be executable, no checks can be performed at run time to see if the test objective has been met; this distinguishes Class A from Class C tests. For example, a Class A test might check that keywords of other languages (other than those already reserved in Ada) are not treated as reserved words by an Ada implementation.

Class B tests are illegal programs. They are passed if all the errors they contain are detected at compile time (or link time) and no legal statements are considered illegal by the compiler.

Class C tests consist of executable self-checking programs. They are passed if they complete execution and do not report failure.

Class D tests are capacity tests. Since there are no firm criteria for the number of identifiers permitted in a compilation, number of units in a library, etc., a compiler may refuse to compile a Class D test. However, if such a test is successfully compiled, it should execute without reporting a failure.

Class E tests provide information about an implementer's interpretation of the Standard. Each test has its own pass/fail criterion.

Class L tests consist of illegal programs whose errors cannot be detected until link time. They are passed if errors are detected prior to beginning execution of the main program.

CUSTOMER: The agency requesting the validation (TeleSoft, Inc.).

HOST: The computer on which the compiler executes (VAX-11/780).

ACVC: The Ada Compiler Validation Capability.

AVO: The Ada Validation Office. In the context of this report, the AVO is responsible for setting policies and procedures for compiler validations.

AVF: The Ada Validation Facility, Wright-Patterson Air Force Base. In the context of this report, the AVF is responsible for conducting compiler validations.

TARGET: The computer for which a compiler generates object code (VAX-11/780).

VALIDATION: The process of validating a compiler. The term is used interchangeably with test or compiler test.

VALIDATION TESTS: The generic form used to refer to a set of test programs which evaluate how closely a compiler conforms to its language specification. In this report, the term will be used (unqualified) to mean the ACVC tests.

CHAPTER 2

TEST ANALYSIS

The following table shows that the TeleSoft Ada Compiler passed all applicable correct tests.

	A	B	C	D	E	L	Total
Processed	58	784	1255	14	7	60	2178
Inapplicable	1	9	273	7	0	14	304
Withdrawn	0	3	70	0	0	0	73
Passed	57	772	912	7	7	46	1801
Failed	0	0	0	0	0	0	0

304 tests in the suite were processed but were found to be not applicable to the TeleSoft Ada Compiler (see section 4.2.6).

In addition, 73 tests were withdrawn from the test suite because they did not conform to ANSI/MIL-STD-1815A, the Ada Language Standard (see section 4.2.5 for details).

2.1 CLASS A TESTING

Class A tests check to ensure that legal Ada programs can be successfully compiled. These tests are executed but contain no executable self-checking capabilities. There were 58 Class A test programs processed in this validation.

2.1.1 Class A Test Procedures

Each Class A test is separately compiled and executed. However, the only purpose of execution is to produce a message indicating that the test passed.

2.1.2 Class A Test Results

Successful compilation and execution without any error messages indicates that the tests passed. There were no Class A tests that were withdrawn because of errors in the tests, and one Class A test was found to be inapplicable to this implementation (see section 4.2.6). All 57 applicable Class A tests passed. See section 4.2.7 for further information.

2.2 CLASS B TESTING

Class B tests check the ability to recognize illegal language usage. 784 Class B tests were processed.

2.2.1 Class B Test Procedures

Each Class B test is separately compiled. The resulting test compilation listings are manually examined to see whether every illegal construct in the test is detected. If all errors are not detected, a version of the test is created that contains only undetected illegal constructs. This "split" version is recompiled and the results analyzed. If all errors are still not detected, the revision process is repeated until a revised test contains only a single illegal construct.

A Class B test is considered to fail only if a version of the test containing a single illegal construct is accepted by the compiler (i.e., an illegal construct is not detected) or a version containing no errors is rejected (i.e., a legal construct is rejected).

2.2.2 Class B Test Results

784 Class B tests were presented to the compiler. Nine of these tests were found to be inapplicable to this implementation (see section 4.2.6); three tests were found to be incorrect (i.e., a conforming compiler would have failed each of these tests - see section 4.2.5). All 772 remaining Class B tests passed. See section 4.2.7 for further information.

2.3 CLASS C TESTING

Class C tests check to ensure that legal Ada programs are correctly compiled and executed by an implementation. 1255 Class C tests were processed in this validation.

2.3.1 Class C Test Procedures

Each Class C test is separately compiled and executed. The tests are self-checking and produce PASS/FAIL messages. Any "failed" tests are individually checked to see if they are correct and if they are applicable to the implementation. Any tests that are inapplicable or that do not conform to the Ada Standard are withdrawn.

2.3.2 Class C Test Results

All 1255 Class C tests were processed.

Of the 1255 Class C tests, 70 tests were withdrawn because of errors in the tests (see section 4.2.5). 273 Class C tests were found to be inapplicable to this implementation (see section 4.2.6). The remaining 912 tests passed. For further information see section 4.2.7.

2.4 CLASS D TESTING

Class D tests are executable tests used to check an implementation's compilation and execution capacities. 14 Class D tests were used in this validation.

2.4.1 Class D Test Procedures

Each Class D test is separately compiled and executed. The tests are self-checking and produce PASS/FAIL messages.

2.4.2 Class D Test Results

Of the 14 Class D tests, seven passed and seven were found to be inapplicable to this implementation. None were withdrawn because of errors in the tests. See section 4.2.7 for further information.

2.5 CLASS E TESTING

Class E tests are executable tests that provide information about an implementer's interpretation of the Standard in areas where it permits implementations to differ. Each test has its own PASS/FAIL criterion. Seven Class E tests were used in this validation.

2.5.1 Class E Test Procedures

Each Class E test is separately compiled and executed. The tests are self-checking and produce commentary and PASS/FAIL messages.

2.5.2 Class E Test Results

All seven Class E tests passed. See section 4.2.7 for further information.

2.6 CLASS L TESTING

Class L tests check to ensure that incomplete or illegal Ada programs involving multiple separately compiled source files are detected at link time and are not allowed to execute. 60 test programs were processed in this validation attempt.

2.6.1 Class L Test Procedures

Each Class L test is separately compiled, and execution is attempted. The tests produce FAIL messages if executed. Any "failed" tests are individually checked to see if they are correct and if they are applicable to the implementation. Any tests that are inapplicable or that do not conform to the Ada Standard are withdrawn.

2.6.2 Class L Test Results

Of the 60 Class L tests, 14 were found to be inapplicable to this implementation (see section 4.2.6), and none were withdrawn due to errors in the tests. The remaining 46 tests passed.

CHAPTER 3

COMPILER NONCONFORMANCES

There were no nonconformances to the Ada Standard detected in this validation. The compiler passed all applicable correct tests.

CHAPTER 4

ADDITIONAL INFORMATION

This section describes in more detail how the validation was conducted.

4.1 COMPILER PARAMETERS

Certain tests do not apply to all Ada compilers, e.g., compilers are not required to support several predefined floating point types. Therefore tests must be selected based on the predefined types an implementation actually supports. In addition, some tests are parameterized according to the maximum input source line length allowed by an implementation, the maximum floating point precision supported, etc. The implementation-dependent parameters used in performing this validation were:

- maximum lexical element length: 200
- maximum digits value for floating point types: 6
- SYSTEM.MIN_INT: -32768
- SYSTEM.MAX_INT: +32767
- predefined numeric types: FLOAT, INTEGER
- INTEGER'FIRST: -32768
- INTEGER'LAST: 32767
- source character set: ASCII
- extended ASCII characters:
  "abcdefghijklmnopqrstuvwxyz!$%?@[\]^`{}~"

- non-ASCII char type: (NON_NULL)
- TEXT_IO.COUNT'LAST: 32767
- TEXT_IO.FIELD'LAST: 32766
- illegal external file name1: B%D_CH%R%CTER%*^
- illegal external file name2: (1..120 => 'A')
- SYSTEM.PRIORITY'FIRST: 1
- SYSTEM.PRIORITY'LAST: 0

4.2 TESTING INFORMATION

Tests were compiled/executed at the office of TeleSoft, Inc. in San Diego CA. The tests were executed on a VAX-11/780 using command procedures prepared by TeleSoft and reviewed by the validation team.

4.2.1 Pre-Test Procedures

Prior to traveling to San Diego to run the validation suite, a validation team from the Ada Validation Facility (AVF) performed a pre-validation review of the TeleSoft Ada Compiler. The AVF validation team received computer listings from TeleSoft containing the ACVC Version 1.4 test results of the TeleSoft Ada compiler. The validation team examined the test results from each test and determined the acceptability of the test results.

Prior to testing, appropriate values for the compiler-dependent parameters were determined. These values were used to adapt tests that depend on the values. A magnetic tape containing the adapted tests was prepared and brought to the testing site.

4.2.2 Control Files

TeleSoft provided command procedures that compiled and executed the tests automatically.

4.2.3 Test Procedures

A VAX BACKUP format tape, brought by the validation team, was used to load the ACVC tests to disk on a VAX-11/780. The tests were loaded into sub-directories by chapter to facilitate the test execution.

The package REPORT and procedure CHECK_FILE were compiled into a program library, and the corresponding library files were saved. The tests checking the REPORT package and CHECK_FILE procedure were then executed. The Class B tests were executed in chapter order using two batch queues. The remaining tests were executed beginning with the Class C tests. The program library was initialized for tests in each chapter to contain only REPORT and CHECK_FILE by copying the program library into where these two packages were originally compiled. The results for each test were checked manually by the validation team. The results were saved on disk and also saved in VAX BACKUP format on magnetic tape.

4.2.4 Test Analysis Procedures

On completion of testing, all results were analyzed for failed Class A, C, D, E, or L programs, and all Class B compilation results were individually analyzed. Analysis procedures are described for each test class in chapter 2.

Tests found to contain errors were withdrawn.

4.2.5 Description Of Errors In Withdrawn Tests

The following tests in Version 1.4 of the ACVC did not conform to the ANSI Ada Standard and were withdrawn for the reasons given below:

- C37011A-B: Sliding of array bounds is not permitted for the default initialization of array components of record objects. (CONSTRAINT_ERROR should be raised.)

- C38104A-B: An incomplete type with discriminants was constrained before its full declaration occurred. An implementation is allowed to reject such subtype indications because of an ambiguity in the language.

- B43201B-B: The OTHERS choice in the component association at line 66 is an error because the corresponding index constraint is not static.

- B43203B-B: The aggregate in the last line is valid because the enclosing aggregate is not multidimensional. Therefore the last sentence of 4.3.2(8) in the Ada Reference Manual does not apply.

- C45321A,B,...Y-B: The (model) interval used in the test of C (lines 151-152) is too narrow.

- C45521A,B,...Z-B: The (model) interval used in the test of C (lines 181-182) is too narrow.

- C52001B-AB: The number 23.4 used in lines 28 and 33 is neither a model number of the float subtype FLT nor the anonymous type derived in line 15 (LRM 3.5.7(11)). A model number should have been used instead of 23.4 (e.g. 23.5).

- C52007A-B: In line 76, INTEGER'LAST is compared with SYSTEM.MAX_INT without allowing (by a special exception handler) the implicit conversion of SYSTEM.MAX_INT to INTEGER (before comparison) to raise NUMERIC_ERROR. This is an unintended omission in the test program. Line 136 may also (correctly) raise NUMERIC_ERROR when trying to implicitly convert W_LIT to INTEGER.

- C52102A-AB, C52102B-AB: The result of concatenating slices of an array of characters had an upper bound that did not belong to the array's index subtype because the array was declared to have an index subtype 1..10 instead of subtype INTEGER.

- C52103X-B: The slice assignment in lines 125 to 127 may raise NUMERIC_ERROR in the evaluation of the slices or the length test, prior to assignment. Hence, the check performed in lines 147 to 173 may fail because no values have been assigned to the four elements of ARR42 that are tested. The check in lines 147 to 173 should be performed only if no exceptions are raised during the slice assignment of the lines 125 to 127.

- C52104G-AB, C52104Q-AB: The elaboration of the null string in the expression ARRX31 /= "" at line 61 will raise CONSTRAINT_ERROR because the lower bound of that string is INTEGER'FIRST.

- C55B15A-B: CONSTRAINT_ERROR in line 89 should be changed to NUMERIC_ERROR.

- C87B04A-B: An overloaded function call for the function "+" was ambiguous.

- C87B10A-B: Literal values were used that were outside an integer base type for some implementations.

- C87B26B-B: 'STORAGE_SIZE cannot be applied to a variable having an access type, even if the designated object is a task.

- C87B31A-B: A parameterless function returning an enumeration type cannot be declared in the same declarative part with the enumeration type if the function has the same identifier as one of the enumeration values.

- C910AHA-B: The NATURAL variable SPYNUMB is increased from 0 up to 123456 (see line 38). This number may be larger than NATURAL'LAST (= INTEGER'LAST) in some implementations.

- C95008A: It was possible for an entry call to call a terminated task, depending on the implementation.

- C95009A: An unintended race condition in a tasking test allowed a null access value to be dereferenced before the access variable was assigned the access value of an allocated task.

- B950BAA-B: A formal parameter part of an accept statement did not conform to the entry specification ("IN" was indicated explicitly in just the accept statement.)

- CE3103A-B The exception handler in lines 87 to 89 does not reflect that exception INCOMPLETE is raised by inner exception handlers for USE_ERROR. These exceptions will be handled by the OTHERS choice (incorrectly) resulting in "failed". An additional exception handler "WHEN INCOMPLETE => RAISE;" should be added before line 88.

- CE3708A-B: In line 24, the implicit conversion of the literal 36382 into INTEGER (due to ident-int) will cause NUMERIC-ERROR to be raised (failed) if the implementation cannot represent the value as an integer.

4.2.6 Description Of Inapplicable Tests

231 tests were not processed because SYSTEM.MAX_DIGITS is six and these tests exceed that value. These tests were:

C24113C,D,...,Y-B	C35708C,D,...,Y-B	C45421C,D,...,Y-B
C35705C,D,...,Y-B	C35802C,D,...,Y-B	C45424C,D,...,Y-B
C35706C,D,...,Y-B	C45241C,D,...,Y-B	C45621C,D,...,Z-B
C35707C,D,...,Y-B		

17 tests were inapplicable because the implementation does not support SHORT_INTEGER, LONG_INTEGER, SHORT_FLOAT, or LONG_FLOAT:

SHORT_INTEGER	C34001D-B, B52004E, B55B09D-AB, C55B07B-AB, B86001CR-AB, B86001COM
LONG_INTEGER	C34001E-B, B52004D, B55B09C-AB, C55B07A-AB, B86001CS-AB, B86001COM
SHORT_FLOAT	C34001F-B, C35702A-AB, B86001CP-AB, B86001COM
LONG_FLOAT	C34001G-B, C35702B-AB, B86001CQ-AB, B86001COM

D4A002B and D4A004B are inapplicable because this implementation does not support 64-bit universal integer calculations.

D4A004A-AB is inapplicable because this implementation does not support integers greater than ((2**15)-1).

C55B16A-AB is inapplicable because this implementation does not support representation specifications for noncontiguous enumeration representations.

C86001E-B is inapplicable because the package SYSTEM is used by the package TEXT_IO in this implementation.

C87B62A-B is inapplicable because this implementation does not support the length clause for 'SIZE.

C87B62B-B is inapplicable because this implementation does not support the length clause for 'STORAGE_SIZE.

C87B62C-B is inapplicable because this implementation does not support the length clause for 'SMALL.

CA1012A*-B are inapplicable because this implementation does not allow generic subroutine declarations and generic subroutine bodies to be compiled in separate compilation units.

LA3004A*-AB are inapplicable because this implementation does not support the INLINE pragma for procedures.

LA3004B*-AB are inapplicable because this implementation does not support the INLINE pragma for functions.

AE2101C-B and CE2202A-B are inapplicable because this implementation does not allow instantiation of sequential and direct I/O with unconstrained array types and record types with discriminants.

CE3708A-B is inapplicable because this implementation does not support integers greater than 32767.

CE2102D-B, CE2102E-B, CE2102F-B, and CE2102G-B are inapplicable because the implementation does support modes IN_FILE, OUT_FILE, and INOUT_FILE, and also the procedures RESET and DELETE.

CE2201D-B, CE2201E-B, and CE2401D-B are inapplicable because this implementation does not support instantiation with unconstrained array types or record types with discriminants.

CE2107A-B, CE2107B-B, CE2107C-B, CE2107D-B, CE2107E-B, CE2110B-B, CE2111D-B, CE3111B-B, CE3111C-B, CE3114B-B, and CE3115A-B are inapplicable because only one internal file can be associated with an external file.

C43206A-B, C43207A-B, C43207B-B, and C43214A-B were disputed by TeleSoft because the interpretation of the tests that the evaluation of a null array aggregate does not perform any checks that the index values of choices belong to the corresponding index subtype; even for choices that are not null ranges. This issue was presented to the Language Maintenance Committee for resolution. The issue was not resolved, and therefore, these tests were considered inapplicable for this validation.

4.2.7 Information Derived From The Tests

Processing of the following tests indicated support as described below for a variety of implementation options examined by the tests.

- E24101A-B.TST: if a based integer literal has a value exceeding SYSTEM.MAX_INT, an implementation may either reject the compilation unit at compile time or raise NUMERIC_ERROR at run time. This test showed that the TeleSoft compiler raises NUMERIC_ERROR at run time.

- B26005A.ADA: This test contains all the ASCII control characters in string literals. These control characters appear in the listing file. All occurrences were identified with a diagnostic message by the compiler.

- D29002K-B.ADA: This test declares 713 identifiers and was passed by the TeleSoft compiler.

- E36202A-B.ADA and E36202B-B.ADA: These tests declare multidimensional null BOOLEAN arrays in which 'LENGTH of one dimension exceeds INTEGER'LAST and SYSTEM.MAX_INT, respectively. An implementation can accept this, or it can raise NUMERIC_ERROR or STORAGE_ERROR at run time. The TeleSoft compiler did accept the declarations and raised NUMERIC_ERROR during execution.

- D4A002A-AB.ADA, D4A002B.ADA, D4A004A-AB.ADA, and D4A004B.ADA: These tests contain universal integer calculations requiring 32 and 64 bits of accuracy, i.e., values that exceed SYSTEM.MAX_INT are used. An implementation is allowed to reject programs requiring such calculations. The TeleSoft compiler passed D4A002A and rejected the others, thereby supporting 32-bit universal integer calculations, but not 64-bit calculations.

- E43211B-B.ADA: If a bound in a non-null range of a non-null aggregate does not belong to an index subtype, then all choices may or may not be evaluated before CONSTRAINT_ERROR is raised. The TeleSoft compiler does evaluate all choices before CONSTRAINT_ERROR is raised.

- E43212B-B.ADA: This test shows that all choices are not evaluated before subaggregates are checked for identical bounds.

- E52103Y-B.ADA, C52104X-B.ADA, C52104Y-B.ADA: These tests declare BOOLEAN arrays with INTEGER'LAST+3 components. An implementation may raise NUMERIC_ERROR at the type declaration or STORAGE_ERROR when array objects of these types are declared, or it may accept the type and object declarations. The TeleSoft compiler raised NUMERIC_ERROR when the type was declared in C52104X-B and C52104Y-B, but it did not raise NUMERIC_ERROR for null array with one dimension of length greater than INTEGER'LAST in E52103Y-B.

- A series of tests (D55A03*-AB.ADA) checks to see what level of loop nesting is allowed by an implementation. Tests containing 17 or fewer nested loops passed without exceeding the implementation's capacity. Tests containing 31 or more nested loops exceeded the compiler's capacity.

- D56001B-AB.ADA contains blocks nested 65 levels deep. This test was passed.

- C94004A-B.ADA: This test checks to see what happens when a library unit initiates a task and a main program terminates without ensuring that the library unit's task is terminated. An implementation is allowed to terminate the library unit task or it is allowed to leave the task in execution. This test

showed that such library tasks do terminate when the main program terminates.

- CA1012A4M-B.DEP: This test checks whether an implementation requires generic library unit bodies to be compiled in the same compilation as the generic declaration. The TeleSoft compiler does not allow generic declarations and bodies to be compiled in completely separate compilations.

- BC3204C*-B.ADA and BC3205D*-B.ADA: These tests contain a separately compiled generic declaration, some instantiations, and a body. An implementation must reject either the instantiations or the body. The TeleSoft compiler rejected the body because it is not in the same compilation as its declaration.

- AB2101C-B.DEP: This test shows that sequential and direct I/O cannot be instantiated with unconstrained array types and record types with discriminants.

- CE2106A-B.DEP and CE3110A-B.DEP: These tests confirmed that dynamic creation and deletion of files is supported.

- EE3102C-B.ADA: This test confirmed that an Ada program can open an existing file in OUT_FILE mode, and can create an existing file in either OUT_FILE or IN_FILE mode.

- CE2107*-B.DEP showed that only one internal file may be associated with the same external file.

- CE3111A-B.DEP showed that two internal files may read the same external file.

- CE3111B-B.DEP and CE3111C-B.DEP showed that the TeleSoft compiler does not allow two internal TEXT_IO files to be associated with the same external file when either one or both internal files are opened for writing.

- CE2103A-B.TST, CE2103B-B.TST, and CE2107A-B.TST showed that file names need not comply with VAX VMS file naming conventions in that printable ASCII characters except percent sign (%) may be used and file names may be up to 120 characters long. A file name is mapped into a VMS file name according to an algorithm provided with the compiler.

CHAPTER 5

SUMMARY AND CONCLUSIONS

The Ada Validation Office identified 2178 tests of the ACVC Version 1.4 as being potentially applicable to the validation of the TeleSoft Ada compiler hosted on the VAX-11/780. Of these, 73 were withdrawn due to test errors, and 304 were determined to be inapplicable after they were processed. The compiler passed the remaining 1801 tests.

The AVF considers these results to show acceptable compliance to the January 1983 ANSI Ada Reference Manual.

APPENDIX A

COMPLETE LIST OF TESTS AND RESULTS

This Appendix gives a complete list of the ACVC test files used in the validation attempt, in order by ACVC Implementers' Guide (Ada Reference Manual) section and objective.

To obtain more information about a test itself, the test name indicates the class of the test and which test objective in the ACVC Implementers' Guide applies to the test. The name is interpreted as follows, where the first column below indicates the character position in the name and the second column the meaning of that position:

1	Class of test (A, B, C, D, E, L).
2	Implementers' Guide chapter number (in hexadecimal).
3	Implementers' Guide section number within a chapter (in hexadecimal).
4	Implementers' Guide subsection number or letter.
5, 6	Implementers' Guide test objective number (two-digit decimal number).
7	Test sequence letter (A-Z).
8	Compilation sequence digit or letter (0-9,A-Z).
9	When there are several compilation units, "M" indicates the main program.

Characters 8 and 9 are only present for tests that consist of several separately compiled units. The eighth character indicates the order in which the units are to be compiled (unit 0 is compiled first). The ninth character is only present for the main program and is always "M".

The suffix "-AB" means the test is valid for both the ANSI Ada Standard and the version of Ada published in July 1980. The suffix "-B" implies the test is only valid for the ANSI Standard. Tests without a suffix are considered to be applicable to both the ANSI Standard and the July 1980 version.

A file name ending with .TST means the test depends on one or more of the implementation-dependent parameters listed in section 4.1. A file name ending with .DEP means the test is not necessarily applicable to all implementations.

The result for each file is also given, where:

P = passed.
F = failed.
N/A = not applicable to this implementation.
W = withdrawn due to test errors.

The results for each test file were as follows:

Package REPORT and Supporting Tests

REPORT_SPEC-AB.ADA	P
REPORT_BODY-B.ADA	P
CHECK_FILE-B.ADA	P
VAR_STRINGS_SPEC.ADA	P
VAR_STRINGS_BODY.ADA	N/A
CZ1101A-AB.ADA	P
CZ1102A-AB.ADA	P
CZ1103A-B.ADA	P
CZ1201A-AB.ADA	N/A
CZ1201B-AB.ADA	N/A
CZ1201C-AB.ADA	N/A
CZ1201D-AB.ADA	N/A

CHAPTER 2 TEST RESULTS

A21001A.ADA	P	A22002A.ADA	P
A26004A.TST	P	A29002A-B.ADA	P
A29002B-B.ADA	P	A29002C-B.ADA	P
A29002D-B.ADA	P	A29002E-B.ADA	P
A29002F-B.ADA	P	A29002G-B.ADA	P
A29002H-B.ADA	P	A29002I-B.ADA	P
A29002J-B.ADA	P	B22001A-AB.TST	P
B22001B-AB.TST	P	B22001C-AB.TST	P
B22001D-AB.TST	P	B22001E-AB.TST	P
B22001F-AB.TST	P	B22001G-AB.TST	P
B22001H-AB.TST	P	B22001I-AB.TST	P
B22001J-AB.TST	P	B22001K-AB.TST	P
B22001L-AB.TST	P	B22001M-AB.TST	P
B22001N-AB.TST	P	B22003A.ADA	P
B22004A.ADA	P	B22004B.ADA	P
B22004C.ADA	P	B23002A.ADA	P
B23003D-AB.TST	P	B23003E-AB.TST	P
B23003F-AB.TST	P	B23004A.ADA	P
B23004B.ADA	P	B24001A.ADA	P
B24001B.ADA	P	B24001C.ADA	P
B24005A.ADA	P	B24005B.ADA	P
B24104A.ADA	P	B24104B.ADA	P
B24104C.ADA	P	B26002A.ADA	P
B26005A.ADA	P	B29001A-B.ADA	P
C23001A.ADA	P	C23003A.TST	P
C24002A.ADA	P	C24002B.ADA	P
C24002C.ADA	P	C24003A.TST	P
C24003B.TST	P	C24003C.TST	P
C24102A.ADA	P	C24102B.ADA	P
C24102C.ADA	P	C24103A.ADA	P
C24113A-B.DEP	P	C24113B-B.DEP	P
C24113C-B.DEP	N/A	C24113D-B.DEP	N/A
C24113E-B.DEP	N/A	C24113F-B.DEP	N/A
C24113G-B.DEP	N/A	C24113H-B.DEP	N/A
C24113I-B.DEP	N/A	C24113J-B.DEP	N/A
C24113K-B.DEP	N/A	C24113L-B.DEP	N/A
C24113M-B.DEP	N/A	C24113N-B.DEP	N/A
C24113O-B.DEP	N/A	C24113P-B.DEP	N/A
C24113Q-B.DEP	N/A	C24113R-B.DEP	N/A
C24113S-B.DEP	N/A	C24113T-B.DEP	N/A
C24113U-B.DEP	N/A	C24113V-B.DEP	N/A
C24113W-B.DEP	N/A	C24113X-B.DEP	N/A
C24113Y-B.DEP	N/A	C26002B.ADA	P
C26006A-AB.ADA	P	C26008A-AB.ADA	P
C27001A-AB.ADA	P	C27002A-B.ADA	P
D29002K-B.ADA	P	E24101A-B.TST	P

CHAPTER 3 TEST RESULTS

A32203B-B.ADA	P	A32203C-B.ADA	P
A32203D-B.ADA	P	A34008B-B.ADA	P
A38106D-B.ADA	P	A38106E-B.ADA	P
B32103A-AB.ADA	P	B32106A-B.ADA	P
B32201A-B.ADA	P	B32202A-B.ADA	P
B32202B-B.ADA	P	B32202C-B.ADA	P
B33001A.ADA	P	B33002A.ADA	P
B33003A.ADA	P	B33003B-AB.ADA	P
B33003C-AB.ADA	P	B33004A.ADA	P
B34001S-AB.ADA	P	B34008A-B.ADA	P
B35101A.ADA	P	B35301A.ADA	P
B35501A.ADA	P	B35506A.ADA	P
B35506B.ADA	P	B35701A.TST	P
B35709A.ADA	P	B35A03A-B.ADA	P
B36101A-AB.ADA	P	B36102A.ADA	P
B36103A.ADA	P	B36105A-B.ADA	P
B36171A-B.ADA	P	B36171B-B.ADA	P
B36171C-AB.ADA	P	B36171D-AB.ADA	P
B36171E-AB.ADA	P	B36171F-AB.ADA	P
B36171G-AB.ADA	P	B36171H-AB.ADA	P
B36171I-AB.ADA	P	B36201A-B.ADA	P
B37003A-AB.ADA	P	B37004A-B.ADA	P
B37004C-B.ADA	P	B37004D-B.ADA	P
B37004E-B.ADA	P	B37004F-B.ADA	P
B37004G-B.ADA	P	B37004H-B.ADA	P
B37101A.ADA	P	B37201A.ADA	P
B37202A.ADA	P	B37202B.ADA	P
B37203A.ADA	P	B37204A-AB.ADA	P
B37205A-AB.ADA	P	B37301A.ADA	P
B37301B.ADA	P	B37302A-AB.ADA	P
B37303A.ADA	P	B37307B-AB.ADA	P
B37309B-AB.ADA	P	B37310B-B.ADA	P
B37311A-AB.ADA	P	B38001A.ADA	P
B38003A-AB.ADA	P	B38008A-B.ADA	P
B38008B-AB.ADA	P	B38101A-B.ADA	P
B38101B-AB.ADA	P	B38103A-B.ADA	P
B38103B-B.ADA	P	B38103C0-B.ADA	P
B38103C1-B.ADA	P	B38103C2-B.ADA	P
B38103C3M-B.ADA	P	B38105A-AB.ADA	P
B38105B-AB.ADA	P	B38106A-B.ADA	P
B38106B-B.ADA	P	C32203A-B.ADA	P
C34001A-B.ADA	P	C34001B-B.ADA	P
C34001C-B.ADA	P	C34001D-B.DEP	N/A
C34001E-B.DEP	N/A	C34001F-B.DEP	N/A
C34001G-B.DEP	N/A	C34001H-B.ADA	P
C34001I-B.ADA	P	C34001K-B.ADA	P
C34001L-B.ADA	P	C34001M-B.ADA	P
C34001N-B.ADA	P	C34001O-B.ADA	P
C34001P-B.ADA	P	C34001Q-B.ADA	P

C34001R-B.ADA	P	C34001T-B.ADA	P
C34002A-B.ADA	P	C34002B-B.ADA	P
C35104A.ADA	P	C35504A-AB.ADA	P
C35504B-B.ADA	P	C35505A.ADA	P
C35505B.ADA	P	C35508A-AB.ADA	P
C35508B-B.ADA	P	C35702A-AB.DEP	N/A
C35702B-AB.DEP	N/A	C35703A.ADA	P
C35704A-AB.ADA	P	C35704B-AB.ADA	P
C35704C-AB.ADA	P	C35704D-AB.ADA	P
C35705A-B.DEP	P	C35705B-B.DEP	P
C35705C-B.DEP	N/A	C35705D-B.DEP	N/A
C35705E-B.DEP	N/A	C35705F-B.DEP	N/A
C35705G-B.DEP	N/A	C35705H-B.DEP	N/A
C35705I-B.DEP	N/A	C35705J-B.DEP	N/A
C35705K-B.DEP	N/A	C35705L-B.DEP	N/A
C35705M-B.DEP	N/A	C35705N-B.DEP	N/A
C35705O-B.DEP	N/A	C35705P-B.DEP	N/A
C35705Q-B.DEP	N/A	C35705R-B.DEP	N/A
C35705S-B.DEP	N/A	C35705T-B.DEP	N/A
C35705U-B.DEP	N/A	C35705V-B.DEP	N/A
C35705W-B.DEP	N/A	C35705X-B.DEP	N/A
C35705Y-B.DEP	N/A	C35706A-B.DEP	P
C35706B-B.DEP	P	C35706C-B.DEP	N/A
C35706D-B.DEP	N/A	C35706E-B.DEP	N/A
C35706F-B.DEP	N/A	C35706G-B.DEP	N/A
C35706H-B.DEP	N/A	C35706I-B.DEP	N/A
C35706J-B.DEP	N/A	C35706K-B.DEP	N/A
C35706L-B.DEP	N/A	C35706M-B.DEP	N/A
C35706N-B.DEP	N/A	C35706O-B.DEP	N/A
C35706P-B.DEP	N/A	C35706Q-B.DEP	N/A
C35706R-B.DEP	N/A	C35706S-B.DEP	N/A
C35706T-B.DEP	N/A	C35706U-B.DEP	N/A
C35706V-B.DEP	N/A	C35706W-B.DEP	N/A
C35706X-B.DEP	N/A	C35706Y-B.DEP	N/A
C35707A-B.DEP	P	C35707B-B.DEP	P
C35707C-B.DEP	N/A	C35707D-B.DEP	N/A
C35707E-B.DEP	N/A	C35707F-B.DEP	N/A
C35707G-B.DEP	N/A	C35707H-B.DEP	N/A
C35707I-B.DEP	N/A	C35707J-B.DEP	N/A
C35707K-B.DEP	N/A	C35707L-B.DEP	N/A
C35707M-B.DEP	N/A	C35707N-B.DEP	N/A
C35707O-B.DEP	N/A	C35707P-B.DEP	N/A
C35707Q-B.DEP	N/A	C35707R-B.DEP	N/A
C35707S-B.DEP	N/A	C35707T-B.DEP	N/A
C35707U-B.DEP	N/A	C35707V-B.DEP	N/A
C35707W-B.DEP	N/A	C35707X-B.DEP	N/A
C35707Y-B.DEP	N/A	C35708A-B.DEP	P
C35708B-B.DEP	P	C35708C-B.DEP	N/A
C35708D-B.DEP	N/A	C35708E-B.DEP	N/A
C35708F-B.DEP	N/A	C35708G-B.DEP	N/A
C35708H-B.DEP	N/A	C35708I-B.DEP	N/A

C35708J-B.DEP	N/A	C35708K-B.DEP	N/A
C35708L-B.DEP	N/A	C35708M-B.DEP	N/A
C35708N-B.DEP	N/A	C35708O-B.DEP	N/A
C35708P-B.DEP	N/A	C35708Q-B.DEP	N/A
C35708Q-B.DEP	N/A	C35708S-B.DEP	N/A
C35708T-B.DEP	N/A	C35708U-B.DEP	N/A
C35708V-B.DEP	N/A	C35708W-B.DEP	N/A
C35708X-B.DEP	N/A	C35708Y-B.DEP	N/A
C35711A-B.ADA	P	C35802A-B.DEP	P
C35802B-B.DEP	P	C35802C-B.DEP	N/A
C35802D-B.DEP	N/A	C35802E-B.DEP	N/A
C35802F-B.DEP	N/A	C35802G-B.DEP	N/A
C35802H-B.DEP	N/A	C35802I-B.DEP	N/A
C35802J-B.DEP	N/A	C35802K-B.DEP	N/A
C35802L-B.DEP	N/A	C35802M-B.DEP	N/A
C35802N-B.DEP	N/A	C35802O-B.DEP	N/A
C35802P-B.DEP	N/A	C35802Q-B.DEP	N/A
C35802R-B.DEP	N/A	C35802S-B.DEP	N/A
C35802T-B.DEP	N/A	C35802U-B.DEP	N/A
C35802V-B.DEP	N/A	C35802W-B.DEP	N/A
C35802X-B.DEP	N/A	C35802Y-B.DEP	N/A
C35904A-B.ADA	P	C36172A-B.ADA	P
C36174A-B.ADA	P	C36204A-B.ADA	P
C36205A.ADA	P	C36205B.ADA	P
C36205C.ADA	P	C36205D.ADA	P
C36205E.ADA	P	C36205F.ADA	P
C36205G.ADA	P	C36205H.ADA	P
C36205I.ADA	P	C36205J.ADA	P
C36205K.ADA	P	C36301A-B.ADA	P
C36301B-AB.ADA	P	C36302A.ADA	P
C36303A.ADA	P	C36304A-B.ADA	P
C36305A-AB.ADA	P	C37005A.ADA	P
C37007A-AB.ADA	P	C37008A-B.ADA	P
C37008B-B.ADA	P	C37011A-B.ADA	W
C37012A-AB.ADA	P	C37013A-AB.ADA	P
C37103A-AB.ADA	P	C37105A.ADA	P
C37208A-B.ADA	P	C37208B-AB.ADA	P
C37209A.ADA	P	C37304A-AB.ADA	P
C37305A.ADA	P	C37306A.ADA	P
C37307A-AB.ADA	P	C37309A-AB.ADA	P
C37310A-AB.ADA	P	C38004A.ADA	P
C38005A-B.ADA	P	C38006A-B.ADA	P
C38007A-B.ADA	P	C38102A-AB.ADA	P
C38102B-B.ADA	P	C38102C-B.ADA	P
C38104A-B.ADA	W	E36202A-B.ADA	P
E36202B-B.ADA	P		

CHAPTER 4 TEST RESULTS

B41101A-B.ADA	P	B41101C-AB.ADA	P
B41102A-AB.ADA	P	B41102B-B.ADA	P
B41102C-B.ADA	P	B41201A-B.ADA	P
B41201C.ADA	P	B41202A-B.ADA	P
B41202B-AB.ADA	P	B41202C-B.ADA	P
B41202D-B.ADA	P	B41302A-AB.ADA	P
B41302B-AB.ADA	P	B42004A-B.ADA	P
B43101A-B.ADA	P	B43201A-B.ADA	P
B43201B-B.ADA	W	B43201C-B.ADA	P
B43201D-B.ADA	P	B43202A-B.ADA	P
B43202B-B.ADA	P	B43202C-B.ADA	P
B43203A-B.ADA	P	B43203B-B.ADA	W
B44001A-B.ADA	P	B44002A-B.ADA	P
B44002B-B.ADA	P	B44002C.ADA	P
B45102A-AB.ADA	P	B45203A.ADA	P
B45203B-AB.ADA	P	B45205A-AB.ADA	P
B45206A-AB.ADA	P	B45206B-B.ADA	P
B45207A-AB.ADA	P	B45207B-B.ADA	P
B45207C-B.ADA	P	B45207D-B.ADA	P
B45207G-B.ADA	P	B45207H-B.ADA	P
B45207I-B.ADA	P	B45207J-B.ADA	P
B45207M-AB.ADA	P	B45207N-AB.ADA	P
B45207O-AB.ADA	P	B45207P-B.ADA	P
B45207S-AB.ADA	P	B45207T-AB.ADA	P
B45207U-AB.ADA	P	B45207V-B.ADA	P
B45208A-AB.ADA	P	B45208B-B.ADA	P
B45208C-B.ADA	P	B45208G-AB.ADA	P
B45208H-B.ADA	P	B45208I-B.ADA	P
B45208M-AB.ADA	P	B45208N-AB.ADA	P
B45208S-AB.ADA	P	B45208T-AB.ADA	P
B45261A-AB.ADA	P	B45261B-AB.ADA	P
B45261C-AB.ADA	P	B45261D-AB.ADA	P
B45402A.ADA	P	B45522A.ADA	P
B45533A-AB.ADA	P	B48001A-B.ADA	P
B48001B-B.ADA	P	B48001C-AB.ADA	P
B48001D-B.ADA	P	B48002A-B.ADA	P
B48002B-AB.ADA	P	B48002C-B.ADA	P
B48002D-B.ADA	P	B48002E-AB.ADA	P
B48002F-AB.ADA	P	B48002G-AB.ADA	P
B48002I-B.ADA	P	B48002J-B.ADA	P
B4A006A-B.ADA	P	B4A016A.ADA	P
C41101D-B.ADA	P	C41103A-B.ADA	P
C41103B-B.ADA	P	C41105A-B.ADA	P
C41106A-B.ADA	P	C41107A-AB.ADA	P
C41201D-B.ADA	P	C41203A-B.ADA	P
C41203B-B.ADA	P	C41204A.ADA	P
C41205A-B.ADA	P	C41206A.ADA	P
C41301A-B.ADA	P	C41303A-B.ADA	P
C41303B-B.ADA	P	C41303C-B.ADA	P

C41303E-B.ADA	P	C41303F-B.ADA	P
C41303G-B.ADA	P	C41303I-B.ADA	P
C41303J-B.ADA	P	C41303K-B.ADA	P
C41303M-B.ADA	P	C41303N-B.ADA	P
C41303O-B.ADA	P	C41303Q-B.ADA	P
C41303R-B.ADA	P	C41303S-B.ADA	P
C41303U-B.ADA	P	C41303V-B.ADA	P
C41303W-B.ADA	P	C41304A-B.ADA	P
C41306A-B.ADA	P	C41306B-B.ADA	P
C41306C-B.ADA	P	C42005A-B.ADA	P
C42006A-B.ADA	P	C43103A-B.ADA	P
C43107A-B.ADA	P	C43205A-B.ADA	P
C43205B-B.ADA	P	C43205C-B.ADA	P
C43205D-B.ADA	P	C43205E-B.ADA	P
C43205F-B.ADA	P	C43205G-B.ADA	P
C43205H-B.ADA	P	C43205I-B.ADA	P
C43205J-B.ADA	P	C43205K-B.ADA	P
C43206A-B.ADA	N/A	C43207A-B.ADA	N/A
C43207B-B.ADA	N/A	C43207C-B.ADA	P
C43207D-B.ADA	P	C43208A-B.ADA	P
C43208B-B.ADA	P	C43210A-B.ADA	P
C43211A-B.ADA	P	C43212A-B.ADA	P
C43213A-B.ADA	P	C43214A-B.ADA	N/A
C43214B-B.ADA	P	C43214C-B.ADA	P
C43214D-B.ADA	P	C43214E-B.ADA	P
C43214F-B.ADA	P	C43215A-B.ADA	P
C43215B-B.ADA	P	C45101A.ADA	P
C45101B.ADA	P	C45101C.ADA	P
C45101E.ADA	P	C45101G-AB.ADA	P
C45101H-AB.ADA	P	C45101I.ADA	P
C45103A-AB.ADA	P	C45103B-AB.ADA	P
C45103C-AB.ADA	P	C45104A.ADA	P
C45105A-AB.ADA	P	C45105B-B.ADA	P
C45106A.ADA	P	C45201A.ADA	P
C45201B.ADA	P	C45202A-AB.ADA	P
C45210A.ADA	P	C45220A.ADA	P
C45220B.ADA	P	C45220C.ADA	P
C45220D.ADA	P	C45220E-B.ADA	P
C45241A-B.DEP	P	C45241B-B.DEP	P
C45241C-B.DEP	N/A	C45241D-B.DEP	N/A
C45241E-B.DEP	N/A	C45241F-B.DEP	N/A
C45241G-B.DEP	N/A	C45241H-B.DEP	N/A
C45241I-B.DEP	N/A	C45241J-B.DEP	N/A
C45241K-B.DEP	N/A	C45241L-B.DEP	N/A
C45241M-B.DEP	N/A	C45241N-B.DEP	N/A
C45241O-B.DEP	N/A	C45241P-B.DEP	N/A
C45241Q-B.DEP	N/A	C45241R-B.DEP	N/A
C45241S-B.DEP	N/A	C45241T-B.DEP	N/A
C45241U-B.DEP	N/A	C45241V-B.DEP	N/A
C45241W-B.DEP	N/A	C45241X-B.DEP	N/A
C45241Y-B.DEP	N/A	C45274A-AB.ADA	P

C45274B-AB.ADA	P	C45274C-AB.ADA	P
C45303A-B.ADA	P	C45321A-B.DEP	W
C45321B-B.DEP	W	C45321C-B.DEP	W
C45321D-B.DEP	W	C45321E-B.DEP	W
C45321F-B.DEP	W	C45321G-B.DEP	W
C45321H-B.DEP	W	C45321I-B.DEP	W
C45321J-B.DEP	W	C45321K-B.DEP	W
C45321L-B.DEP	W	C45321M-B.DEP	W
C45321N-B.DEP	W	C45321O-B.DEP	W
C45321P-B.DEP	W	C45321Q-B.DEP	W
C45321R-B.DEP	W	C45321S-B.DEP	W
C45321T-B.DEP	W	C45321U-B.DEP	W
C45321V-B.DEP	W	C45321W-B.DEP	W
C45321X-B.DEP	W	C45321Y-B.DEP	W
C45345A-AB.ADA	P	C45345B-AB.ADA	P
C45401A.ADA	P	C45401B-AB.ADA	P
C45413A-B.ADA	P	C45421A-B.DEP	P
C45421B-B.DEP	P	C45421C-B.DEP	N/A
C45421D-B.DEP	N/A	C45421E-B.DEP	N/A
C45421F-B.DEP	N/A	C45421G-B.DEP	N/A
C45421H-B.DEP	N/A	C45421I-B.DEP	N/A
C45421J-B.DEP	N/A	C45421K-B.DEP	N/A
C45421L-B.DEP	N/A	C45421M-B.DEP	N/A
C45421N-B.DEP	N/A	C45421O-B.DEP	N/A
C45421P-B.DEP	N/A	C45421Q-B.DEP	N/A
C45421R-B.DEP	N/A	C45421S-B.DEP	N/A
C45421T-B.DEP	N/A	C45421U-B.DEP	N/A
C45421V-B.DEP	N/A	C45421W-B.DEP	N/A
C45421X-B.DEP	N/A	C45421Y-B.DEP	N/A
C45424A-B.DEP	P	C45424B-B.DEP	P
C45424C-B.DEP	N/A	C45424D-B.DEP	N/A
C45424E-B.DEP	N/A	C45424F-B.DEP	N/A
C45424G-B.DEP	N/A	C45424H-B.DEP	N/A
C45424I-B.DEP	N/A	C45424J-B.DEP	N/A
C45424K-B.DEP	N/A	C45424L-B.DEP	N/A
C45424M-B.DEP	N/A	C45424N-B.DEP	N/A
C45424O-B.DEP	N/A	C45424P-B.DEP	N/A
C45424Q-B.DEP	N/A	C45424R-B.DEP	N/A
C45424S-B.DEP	N/A	C45424T-B.DEP	N/A
C45424U-B.DEP	N/A	C45424V-B.DEP	N/A
C45424W-B.DEP	N/A	C45424X-B.DEP	N/A
C45424Y-B.DEP	N/A	C45505A-B.ADA	P
C45521A-B.DEP	W	C45521B-B.DEP	W
C45521C-B.DEP	W	C45521D-B.DEP	W
C45521E-B.DEP	W	C45521F-B.DEP	W
C45521G-B.DEP	W	C45521H-B.DEP	W
C45521I-B.DEP	W	C45521J-B.DEP	W
C45521K-B.DEP	W	C45521L-B.DEP	W
C45521M-B.DEP	W	C45521N-B.DEP	W
C45521O-B.DEP	W	C45521P-B.DEP	W
C45521Q-B.DEP	W	C45521R-B.DEP	W

C45521S-B.DEP	W	C45521T-B.DEP	W
C45521U-B.DEP	W	C45521V-B.DEP	W
C45521W-B.DEP	W	C45521X-B.DEP	W
C45521Y-B.DEP	W	C45521Z-B.DEP	W
C45526A-B.ADA	P	C45621A.DEP	P
C45621B.DEP	P	C45621C.DEP	N/A
C45621D.DEP	N/A	C45621E.DEP	N/A
C45621F.DEP	N/A	C45621G.DEP	N/A
C45621H.DEP	N/A	C45621I.DEP	N/A
C45621J.DEP	N/A	C45621K.DEP	N/A
C45621L.DEP	N/A	C45621M.DEP	N/A
C45621N.DEP	N/A	C45621O.DEP	N/A
C45621P.DEP	N/A	C45621Q.DEP	N/A
C45621R.DEP	N/A	C45621S.DEP	N/A
C45621T.DEP	N/A	C45621U.DEP	N/A
C45621V.DEP	N/A	C45621W.DEP	N/A
C45621X.DEP	N/A	C45621Y.DEP	N/A
C45621Z.DEP	N/A	C48003A-B.ADA	P
C48003B-B.ADA	P	C48003C-B.ADA	P
C48003D-B.ADA	P	C48003E-B.ADA	P
C48003F.ADA	P	C48003G-B.ADA	P
C48004A-B.ADA	P	C48005A-B.ADA	P
C48005B-B.ADA	P	C48005C-AB.ADA	P
C48005D-AB.ADA	P	C4A001A.ADA	P
C4A003A.ADA	P	C4A010A-B.ADA	P
C4A011A.ADA	P	C4A013A.ADA	P
D4A002A-AB.ADA	P	D4A002B.ADA	N/A
D4A004A-AB.ADA	N/A	D4A004B.ADA	N/A
E43211B-B.ADA	P	E43212B-B.ADA	P

CHAPTER 5 TEST RESULTS

A54B01A-B.ADA	P	A54B02A-B.ADA	P
A55B12A-AB.ADA	P	A55B13A-AB.ADA	P
A55B14A-AB.ADA	P	B51001A-AB.ADA	P
B51003A-AB.ADA	P	B52002A-B.ADA	P
B52002B-AB.ADA	P	B52002C-AB.ADA	P
B52002D-AB.ADA	P	B52002E-AB.ADA	P
B52002F-B.ADA	P	B52002G-AB.ADA	P
B52003A-AB.ADA	P	B52004A-B.ADA	P
B52004B-AB.ADA	P	B52004C-AB.ADA	P
B52004D-AB.DEP	N/A	B52004E-AB.DEP	N/A
B52006A-AB.ADA	P	B53001A-AB.ADA	P
B53001B-AB.ADA	P	B53002A-AB.ADA	P
B53002B-AB.ADA	P	B53003A-AB.ADA	P
B53004A-AB.ADA	P	B53009A-AB.ADA	P
B54A01A-AB.ADA	P	B54A01B-AB.ADA	P
B54A01C-AB.ADA	P	B54A01D-AB.ADA	P
B54A01E-AB.ADA	P	B54A01F-AB.ADA	P
B54A01G-AB.ADA	P	B54A01H-AB.ADA	P
B54A01I-AB.ADA	P	B54A01J-AB.ADA	P
B54A01K-AB.ADA	P	B54A01L-AB.ADA	P
B54A05A.ADA	P	B54A05B.ADA	P
B54A08A-B.ADA	P	B54A20A.ADA	P
B54A21A-B.ADA	P	B54A25A-B.ADA	P
B54A27B-AB.ADA	P	B54A27D-AB.ADA	P
B54B01B-B.TST	P	B54B01C-B.ADA	P
B54B02B-B.ADA	P	B54B02C-B.ADA	P
B54B02D-B.ADA	P	B54B04A-AB.ADA	P
B54B04B-AB.ADA	P	B54B05A-AB.ADA	P
B55A01A-AB.ADA	P	B55A01B-AB.ADA	P
B55A01C-AB.ADA	P	B55A01D-AB.ADA	P
B55A01E-AB.ADA	P	B55A01F-AB.ADA	P
B55A01G-AB.ADA	P	B55A01H-AB.ADA	P
B55A01I-AB.ADA	P	B55A01J-AB.ADA	P
B55A01K-AB.ADA	P	B55A01L-AB.ADA	P
B55A01M-AB.ADA	P	B55A01N-AB.ADA	P
B55A01O-AB.ADA	P	B55A01P-AB.ADA	P
B55A01Q-AB.ADA	P	B55A01R-AB.ADA	P
B55A01S-AB.ADA	P	B55A01T-AB.ADA	P
B55A01U-AB.ADA	P	B55A01V-AB.ADA	P
B55B01A-AB.ADA	P	B55B01B-AB.ADA	P
B55B09B-AB.ADA	P	B55B09C-AB.DEP	N/A
B55B09D-AB.DEP	N/A	B55B12B-B.ADA	P
B55B12C-AB.ADA	P	B55B14B-B.ADA	P
B55B18A-B.ADA	P	B56001A-AB.ADA	P
B56001C-AB.ADA	P	B56001D-AB.ADA	P
B56001E-AB.ADA	P	B56001F-AB.ADA	P
B56001G-AB.ADA	P	B56001H-AB.ADA	P
B57001A-AB.ADA	P	B57001B-B.ADA	P
B57001C-AB.ADA	P	B57001D-AB.ADA	P

B58001A-AB.ADA	P	B58002A-B.ADA	P
B58002B-AB.ADA	P	B58002C-AB.ADA	P
B58003A-B.ADA	P	B58003B-AB.ADA	P
B59001A-AB.ADA	P	B59001C-AB.ADA	P
B59001D-AB.ADA	P	B59001E-AB.ADA	P
B59001F-AB.ADA	P	B59001G-AB.ADA	P
B59001H-AB.ADA	P	B59001I-AB.ADA	P
C51002A-AB.ADA	P	C52001A-B.ADA	P
C52001B-AB.ADA	W	C52001C-AB.ADA	P
C52005A-AB.ADA	P	C52005B-AB.ADA	P
C52005C-AB.ADA	P	C52005D-AB.ADA	P
C52005E-AB.ADA	P	C52005F-AB.ADA	P
C52007A-B.ADA	W	C52008A-AB.ADA	P
C52008B-B.ADA	P	C52009A-B.ADA	P
C52009B-B.ADA	P	C52010A-AB.ADA	P
C52011A-B.ADA	P	C52011B-AB.ADA	P
C52102A-AB.ADA	W	C52102B-AB.ADA	W
C52103A-AB.ADA	P	C52103B-AB.ADA	P
C52103C-AB.ADA	P	C52103F-AB.ADA	P
C52103G-AB.ADA	P	C52103H-AB.ADA	P
C52103K-AB.ADA	P	C52103L-AB.ADA	P
C52103M-AB.ADA	P	C52103P-AB.ADA	P
C52103Q-AB.ADA	P	C52103R-AB.ADA	P
C52103X-B.ADA	W	C52104A-AB.ADA	P
C52104B-AB.ADA	P	C52104C-AB.ADA	P
C52104F-AB.ADA	P	C52104G-AB.ADA	W
C52104H-AB.ADA	P	C52104K-AB.ADA	P
C52104L-AB.ADA	P	C52104M-AB.ADA	P
C52104P-AB.ADA	P	C52104Q-AB.ADA	W
C52104R-AB.ADA	P	C52104X-B.ADA	P
C52104Y-B.ADA	P	C53004B-B.ADA	P
C53005A-AB.ADA	P	C53005B-AB.ADA	P
C53006A-AB.ADA	P	C53006B-AB.ADA	P
C53007A-AB.ADA	P	C53008A-AB.ADA	P
C54A03A.ADA	P	C54A04A-AB.ADA	P
C54A06A-AB.ADA	P	C54A07A-AB.ADA	P
C54A22A-AB.ADA	P	C54A23A-B.ADA	P
C54A24A-AB.ADA	P	C54A24B.ADA	P
C54A26A.ADA	P	C54A27A-AB.ADA	P
C54A41A.ADA	P	C54A42A.ADA	P
C54A42B.ADA	P	C54A42C.ADA	P
C54A42D.ADA	P	C54A42E.ADA	P
C54A42F.ADA	P	C54A42G.ADA	P
C55B03A-AB.ADA	P	C55B04A-AB.ADA	P
C55B05A-AB.ADA	P	C55B06A-AB.ADA	P
C55B06B-AB.ADA	P	C55B07A-AB.DEP	N/A
C55B07B-AB.DEP	N/A	C55B08A-B.ADA	P
C55B09A-AB.ADA	P	C55B15A-B.ADA	W
C55B16A-AB.DEP	N/A	C55C01A-B.ADA	P
C55C02A-AB.ADA	P	C55C02B-AB.ADA	P
C55C03A-AB.ADA	P	C55C03B-AB.ADA	P

C55D01A-AB.ADA	P	C56002A-AB.ADA	P
C57002A-AB.ADA	P	C57003A-AB.ADA	P
C57004A-AB.ADA	P	C57004B-AB.ADA	P
C57004C-AB.ADA	P	C57005A-B.ADA	P
C58004A-AB.ADA	P	C58004B-AB.ADA	P
C58004C-AB.ADA	P	C58004D-B.ADA	P
C58004F-AB.ADA	P	C58004G-AB.ADA	P
C58005A-AB.ADA	P	C58005B-AB.ADA	P
C58005H-AB.ADA	P	C58006A-AB.ADA	P
C58006B-AB.ADA	P	C59001B-AB.ADA	P
C59002A-AB.ADA	P	C59002B-AB.ADA	P
C59002C-B.ADA	P	D55A03A-AB.ADA	P
D55A03B-AB.ADA	P	D55A03C-AB.ADA	P
D55A03D-AB.ADA	P	D55A03E-AB.ADA	N/A
D55A03F-AB.ADA	N/A	D55A03G-AB.ADA	N/A
D55A03H-AB.ADA	N/A	D56001B-AB.ADA	P
E52103Y-B.ADA	P		

CHAPTER 6 TEST RESULTS

A62006D-B.ADA	P	B61001A-AB.ADA	P
B61001B-AB.ADA	P	B61001C-AB.ADA	P
B61001D-AB.ADA	P	B61001E-AB.ADA	P
B61001F-AB.ADA	P	B61001G-AB.ADA	P
B61001H-AB.ADA	P	B61001I-AB.ADA	P
B61001J-AB.ADA	P	B61001K-AB.ADA	P
B61001L-AB.ADA	P	B61001M-AB.ADA	P
B61003A-AB.ADA	P	B61005A-B.ADA	P
B61005B-B.ADA	P	B61012A-B.ADA	P
B62001A.ADA	P	B62001B-AB.ADA	P
B62001C-AB.ADA	P	B62001D-AB.ADA	P
B62006B-B.ADA	P	B62006C-B.ADA	P
B62006E-B.ADA	P	B62006F-B.ADA	P
B63001A.ADA	P	B63005A-AB.ADA	P
B63005B-AB.ADA	P	B63009A-B.ADA	P
B63009B-B.ADA	P	B63009C0-B.ADA	P
B63009C1-B.ADA	P	B63009C2-B.ADA	P
B63009C3M-B.ADA	P	B63102A-B.ADA	P
B64001A-B.ADA	P	B64002A.ADA	P
B64003A.ADA	P	B64004A.ADA	P
B64005A-AB.ADA	P	B64006A.ADA	P
B64101A-B.ADA	P	B65001A.ADA	P
B65002A-AB.ADA	P	B65002B-AB.ADA	P
B66001A-B.ADA	P	B66001C.ADA	P
B67001A-B.ADA	P	B67001B-AB.ADA	P
B67004A-B.ADA	P	C61003B-AB.ADA	P
C61008A-B.ADA	P	C61009A-B.ADA	P
C61010A-AB.ADA	P	C62002A-B.ADA	P
C62003A-B.ADA	P	C62004A.ADA	P
C62006A-B.ADA	P	C63004A-AB.ADA	P
C64002B-B.ADA	P	C64004B.ADA	P
C64007A.ADA	P	C64104A-AB.ADA	P
C64104B-AB.ADA	P	C64104C-AB.ADA	P
C64104D-AB.ADA	P	C64104E-AB.ADA	P
C64104F-AB.ADA	P	C64104G-AB.ADA	P
C64104H.ADA	P	C64104I.ADA	P
C64104J.ADA	P	C64104K-AB.ADA	P
C64104L-AB.ADA	P	C64104M-AB.ADA	P
C64105A.ADA	P	C64105B-AB.ADA	P
C64105C-AB.ADA	P	C64105D-AB.ADA	P
C64106A-B.ADA	P	C64106B-B.ADA	P
C64106C-B.ADA	P	C64106D-B.ADA	P
C64107A-B.ADA	P	C64108A-B.ADA	P
C64202A-B.ADA	P	C65003A-B.ADA	P
C65003B-B.ADA	P	C66002A-B.ADA	P
C66002C.ADA	P	C66002D.ADA	P
C66002E-AB.ADA	P	C66002F.ADA	P
C66002G-B.ADA	P	C67002A.ADA	P
C67003A-B.ADA	P	C67003B.ADA	P

C67003C-AB.ADA	P	C67003D-B.ADA	P
C67003E-AB.ADA	P	C67005A-B.ADA	P
C67005B-B.ADA	P		

CHAPTER 7 TEST RESULTS

A71002A-AB.ADA	P	A71004A-AB.ADA	P
A72001A-AB.ADA	P	A74006A-AB.ADA	P
A74105B-B.ADA	P	A74106A-AB.ADA	P
A74106B-AB.ADA	P	A74106C-AB.ADA	P
A74205E-B.ADA	P	A74205F-B.ADA	P
B71001A-AB.ADA	P	B71001B-AB.ADA	P
B71001C-AB.ADA	P	B71001D-AB.ADA	P
B71001E-AB.ADA	P	B71001F-AB.ADA	P
B71001G-AB.ADA	P	B71001H-AB.ADA	P
B71001I-AB.ADA	P	B71001J-AB.ADA	P
B71001K-AB.ADA	P	B71001L-AB.ADA	P
B71001M-AB.ADA	P	B71001N-AB.ADA	P
B71001O-AB.ADA	P	B71001P-AB.ADA	P
B71001Q-AB.ADA	P	B71001R-AB.ADA	P
B71001T-AB.ADA	P	B71001U-AB.ADA	P
B71001V-AB.ADA	P	B71001W-AB.ADA	P
B71002B-AB.ADA	P	B73001A-AB.ADA	P
B73001B-AB.ADA	P	B73001C-B.ADA	P
B73001D-B.ADA	P	B73001E-AB.ADA	P
B73001F-AB.ADA	P	B73001G-B.ADA	P
B73001H-B.ADA	P	B73006A-AB.ADA	P
B74001A-AB.ADA	P	B74001B-AB.ADA	P
B74003A-B.ADA	P	B74101A-B.ADA	P
B74102B-B.ADA	P	B74103A-B.ADA	P
B74103B-B.ADA	P	B74103C-B.ADA	P
B74103D-B.ADA	P	B74104A-B.ADA	P
B74105A-B.ADA	P	B74105C-B.ADA	P
B74201A-AB.ADA	P	B74205A-B.ADA	P
B74205B-B.ADA	P	B74207A-B.ADA	P
B74301A-B.ADA	P	B74301B-B.ADA	P
B74304A-B.ADA	P	B74304C-B.ADA	P
B74401A-B.ADA	P	B74409A-B.ADA	P
C72001B-AB.ADA	P	C73002A-B.ADA	P
C74203B-B.ADA	P	C74206A-B.ADA	P
C74209A-AB.ADA	P	C74210A-AB.ADA	P
C74211A-B.ADA	P	C74211B-B.ADA	P
C74302A-B.ADA	P	C74305A-B.ADA	P
C74305B-B.ADA	P	C74402A-B.ADA	P
C74409B-B.ADA	P		

CHAPTER 8 TEST RESULTS

A83A02A.ADA	P	A83A02B.ADA	P
A83A06A-B.ADA	P	A83C01C.ADA	P
A83C01D.ADA	P	A83C01E.ADA	P
A83C01F.ADA	P	A83C01G.ADA	P
A83C01H.ADA	P	A83C01I.ADA	P
A83C01J.ADA	P	A85007D-B.ADA	P
A85013B-B.ADA	P	B83A01A-AB.ADA	P
B83A01B-B.ADA	P	B83A01C.ADA	P
B83A05A-AB.ADA	P	B83A06B-B.ADA	P
B83A06H-B.ADA	P	B83B01A-AB.ADA	P
B83B02C.ADA	P	B83C01A-AB.ADA	P
B83C02A.ADA	P	B83E02C-B.ADA	P
B83F02A.ADA	P	B83F02B.ADA	P
B83F04A-AB.ADA	P	B84001A-AB.ADA	P
B84002B-B.ADA	P	B84004A-B.ADA	P
B84006A-B.ADA	P	B85007B-B.ADA	P
B85007C-B.ADA	P	B85012A-B.ADA	P
B85015A-B.ADA	P	B86001A0-AB.ADA	P
B86001A1M-AB.ADA	P	B86001B0M-B.ADA	P
B86001BA-B.ADA	P	B86001BB-B.ADA	P
B86001BC-B.ADA	P	B86001BD-B.ADA	P
B86001BE-B.ADA	P	B86001BF-B.ADA	P
B86001BG-B.ADA	P	B86001BH-B.ADA	P
B86001BI-B.ADA	P	B86001BJ-B.ADA	P
B86001BK-B.ADA	P	B86001BL-B.ADA	P
B86001BM-B.ADA	P	B86001BO-B.ADA	P
B86001BU-B.ADA	P	B86001BV-B.ADA	P
B86001BW-B.ADA	P	B86001BX-B.ADA	P
B86001C0M-AB.DEP	N/A	B86001CP-AB.DEP	N/A
B86001CQ-AB.DEP	N/A	B86001CR-AB.DEP	N/A
B86001CS-AB.DEP	N/A	B86001D0M-AB.TST	P
B86001DT-AB.TST	N/A	B87B48C-B.ADA	P
C83B02A.ADA	P	C83B02B.ADA	P
C83C01B.ADA	P	C83E02A.ADA	P
C83E02B.ADA	P	C83E03A.ADA	P
C83E04A.ADA	P	C83F01A.ADA	P
C83F01B.ADA	P	C83F01C0.ADA	P
C83F01C1.ADA	P	C83F01C2M.ADA	P
C83F01D0M.ADA	P	C83F01D1.ADA	P
C83F03A.ADA	P	C83F03B.ADA	P
C83F03C0.ADA	P	C83F03C1.ADA	P
C83F03C2M.ADA	P	C83F03D0M.ADA	P
C83F03D1.ADA	P	C84002A-B.ADA	P
C85007A-B.ADA	P	C85007E-B.ADA	P
C85013A-B.ADA	P	C86001E-B.ADA	N/A
C86002A0.ADA	P	C86002A1.ADA	P
C86002A2M.ADA	P	C86002B1.ADA	P
C86002B2M.ADA	P	C86003A-B.ADA	P
C87A05A-B.ADA	P	C87A05B-B.ADA	P

C87B02A-B.ADA	P	C87B02B-B.ADA	P
C87B03A-B.ADA	P	C87B04A-B.ADA	P
C87B04B-B.ADA	P	C87B04C-B.ADA	P
C87B05A-B.ADA	P	C87B06A-B.ADA	P
C87B07A-B.ADA	P	C87B07B-B.ADA	P
C87B07C-B.ADA	P	C87B07D-B.ADA	P
C87B07E-B.ADA	P	C87B08A-B.ADA	P
C87B09A-B.ADA	P	C87B09B-B.ADA	P
C87B09C-B.ADA	P	C87B10A-B.ADA	W
C87B11A-B.ADA	P	C87B11B-B.ADA	P
C87B13A-B.ADA	P	C87B14A-B.ADA	P
C87B14B-B.ADA	P	C87B14C-B.ADA	P
C87B14D-B.ADA	P	C87B15A-B.ADA	P
C87B16A-B.ADA	P	C87B17A-B.ADA	P
C87B18A-B.ADA	P	C87B18B-B.ADA	P
C87B19A-B.ADA	P	C87B23A-B.ADA	P
C87B24A-B.ADA	P	C87B24B-B.ADA	P
C87B26B-B.ADA	W	C87B27A-B.ADA	P
C87B28A-B.ADA	P	C87B29A-B.ADA	P
C87B30A-B.ADA	P	C87B31A-B.ADA	W
C87B32A-B.ADA	P	C87B33A-B.ADA	P
C87B34A-B.ADA	P	C87B34B-B.ADA	P
C87B34C-B.ADA	P	C87B35A-B.ADA	P
C87B35B-B.ADA	P	C87B35C-B.ADA	P
C87B37A-B.ADA	P	C87B38A-B.ADA	P
C87B39A-B.ADA	P	C87B40A-B.ADA	P
C87B41A-B.ADA	P	C87B42A-B.ADA	P
C87B43A-B.ADA	P	C87B44A-B.ADA	P
C87B45A-B.ADA	P	C87B45C-B.ADA	P
C87B47A-B.ADA	P	C87B48A-B.ADA	P
C87B48B-B.ADA	P	C87B54A-B.ADA	P
C87B57A-B.ADA	P	C87B62A-B.DEP	N/A
C87B62B-B.DEP	N/A	C87B62C-B.DEP	N/A

CHAPTER 9 TEST RESULTS

A91002M-B.ADA	P	A95005A.ADA	P
A97106A-AB.ADA	P	B91001A-AB.ADA	P
B91001B-AB.ADA	P	B91001C-AB.ADA	P
B91001D-AB.ADA	P	B91001E-AB.ADA	P
B91001F-AB.ADA	P	B91001G-B.ADA	P
B91002A-B.ADA	P	B91002B-B.ADA	P
B91002C-B.ADA	P	B91002D-B.ADA	P
B91002E-B.ADA	P	B91002F-B.ADA	P
B91002G-B.ADA	P	B91002H-B.ADA	P
B91002I-B.ADA	P	B91002J-B.ADA	P
B91002K-B.ADA	P	B91002L-B.ADA	P
B91003A-AB.ADA	P	B91004A-B.ADA	P
B910ABA-B.ADA	P	B910ACA-B.ADA	P
B910AEA-B.ADA	P	B910BCA-B.ADA	P
B920ACA-B.ADA	P	B920BDA-B.ADA	P
B920BJA-B.ADA	P	B95001A.ADA	P
B95001B-AB.ADA	P	B95002A.ADA	P
B95004A-AB.ADA	P	B95004B-AB.ADA	P
B95006A.ADA	P	B95006B-AB.ADA	P
B95006C-AB.ADA	P	B95006D-AB.ADA	P
B95007A-AB.ADA	P	B95007B-AB.ADA	P
B95020A-B.ADA	P	B95020B0-B.ADA	P
B95020B1-B.ADA	P	B95020B2M-B.ADA	P
B950ABA-B.ADA	P	B950ABB-B.ADA	P
B950ACA-B.ADA	P	B950ADA-B.ADA	P
B950AFA-B.ADA	P	B950AHA-B.ADA	P
B950AJA-B.ADA	P	B950BAA-B.ADA	W
B950DHA-B.ADA	P	B97101A-AB.ADA	P
B97101B-AB.ADA	P	B97101C-AB.ADA	P
B97101D-AB.ADA	P	B97101E-AB.ADA	P
B97102A-AB.ADA	P	B97102B-AB.ADA	P
B97102C-AB.ADA	P	B97102D-AB.ADA	P
B97102E-AB.ADA	P	B97102F-AB.ADA	P
B97102G-AB.ADA	P	B97102H-AB.ADA	P
B97102I-AB.ADA	P	B97103A-AB.ADA	P
B97103B-AB.ADA	P	B97103D-AB.ADA	P
B97103E-AB.ADA	P	B97104A-AB.ADA	P
B97104B-AB.ADA	P	B97104C-AB.ADA	P
B97104D-AB.ADA	P	B97104E-AB.ADA	P
B97104F-AB.ADA	P	B97104G-AB.ADA	P
B97107A-AB.ADA	P	B97108A-AB.ADA	P
B97108B-AB.ADA	P	B97109A-AB.ADA	P
B97110A-AB.ADA	P	B97110B-AB.ADA	P
B97111A-AB.ADA	P	B99001A-AB.ADA	P
B99001B-B.ADA	P	B99002A-B.ADA	P
B99002B-B.ADA	P	B99002C-B.ADA	P
B99003A-AB.ADA	P	B9A001A-AB.ADA	P
B9A001B-AB.ADA	P	C900ACA-B.ADA	P
C910AHA-B.ADA	W	C910BAA-B.ADA	P

C910BAB-B.ADA	P	C910BAC-B.ADA	P
C910BAD-B.ADA	P	C910BDA-B.ADA	P
C910BDB-B.ADA	P	C910BDC-B.ADA	P
C92002A.ADA	P	C92003A.ADA	P
C920AJA-B.ADA	P	C920BAA-B.ADA	P
C920BBA-B.ADA	P	C920BIA-B.ADA	P
C93001A-B.ADA	P	C93002A-B.ADA	P
C93003A-B.ADA	P	C930ABA-B.ADA	P
C930AEA-B.ADA	P	C930AFA-B.ADA	P
C930AJA-B.ADA	P	C930BAA-B.ADA	P
C930BDA-B.ADA	W	C94001A-B.ADA	P
C94002A-B.ADA	P	C94002B-B.ADA	P
C94003A-B.ADA	P	C94004A-B.ADA	P
C94005A-B.ADA	P	C94005B-B.ADA	P
C94006A-B.ADA	P	C94007A-B.ADA	P
C94007B-B.ADA	P	C940ABA-B.ADA	P
C940ACA-B.ADA	P	C940ACB-B.ADA	P
C940ADA-B.ADA	P	C940AGA-B.ADA	P
C940AGB-B.ADA	P	C940AHA-B.ADA	P
C940AIA-B.ADA	P	C940BAA-B.ADA	P
C940BBA-B.ADA	P	C95008A.ADA	W
C95009A.ADA	W	C95009B.ADA	P
C95010A.ADA	P	C95011A.ADA	P
C95012A-B.ADA	P	C95013A-B.ADA	P
C95021A-B.ADA	P	C950ACB-B.ADA	P
C950BGA-B.ADA	P	C950BHA-B.ADA	P
C950BJA-B.ADA	P	C950CAA-B.ADA	P
C950CBA-B.ADA	P	C950CHA-B.ADA	P
C950CHC-B.ADA	P	C950DEA-B.ADA	P
C950DEB-B.ADA	P	C950DGA-B.ADA	P
C97113A-B.ADA	P	C97114A-B.ADA	P
C97115A-B.ADA	P	C97201A-AB.ADA	P
C97201D-AB.ADA	P	C97201E-AB.ADA	P
C97201G-AB.ADA	P	C97201H-AB.ADA	P
C97201X-AB.ADA	P	C97202A-AB.ADA	P
C97203A-AB.ADA	P	C97203B-AB.ADA	P
C97204A-B.ADA	P	C97303A-AB.ADA	P
C97303B-AB.ADA	P	C97304A-B.ADA	P
C9A003A-B.ADA	P	C9A004A-B.ADA	P
C9A005A-B.ADA	P	C9A006A-B.ADA	P
C9A007A-B.ADA	P		

CHAPTER 10 TEST RESULTS

BA1020B0-B.ADA	P	BA1020B1-B.ADA	P
BA1020B2-B.ADA	P	BA1020B3-B.ADA	P
BA1020B4-B.ADA	P	BA1020B5-B.ADA	P
BA1020B6M-B.ADA	P	BA1101A-AB.ADA	P
BA1101B0M.ADA	P	BA1101B1.ADA	P
BA1101B2.ADA	P	BA1101B3.ADA	P
BA1101B4.ADA	P	BA1101C0.ADA	P
BA1101C1M.ADA	P	BA1101D.ADA	P
BA1101E.ADA	P	BA1101H0-B.ADA	P
BA1101H1M-B.ADA	P	BA2001A-AB.ADA	P
BA2001B.ADA	P	BA2001C.ADA	P
BA2001D.ADA	P	BA2001E.ADA	P
BA2001F0M.ADA	P	BA2001F1.ADA	P
BA2001F2.ADA	P	BA2001G0M.ADA	P
BA2001G1.ADA	P	BA2002A0M.ADA	P
BA2002A1.ADA	P	BA2002A2.ADA	P
BA2003B0M.ADA	P	BA2003B1.ADA	P
BA3001A0M-AB.ADA	P	BA3001A1-AB.ADA	P
BA3001A2-AB.ADA	P	BA3001A3-AB.ADA	P
BA3001B0M.ADA	P	BA3001B1.ADA	P
BA3001C0M-AB.ADA	P	BA3001C1-AB.ADA	P
BA3001D0M-AB.ADA	P	BA3001D1-AB.ADA	P
BA3001E0M-AB.ADA	P	BA3001E1-AB.ADA	P
BA3001E2-AB.ADA	P	BA3001E3-AB.ADA	P
BA3001F0M-AB.ADA	P	BA3001F1-AB.ADA	P
BA3001F2-AB.ADA	P	BA3001F3-AB.ADA	P
CA1002A0-B.ADA	P	CA1002A1-B.ADA	P
CA1002A2-B.ADA	P	CA1002A3M-B.ADA	P
CA1002A4-B.ADA	P	CA1002A5-B.ADA	P
CA1002A6-B.ADA	P	CA1002A7-B.ADA	P
CA1002A8-B.ADA	P	CA1002A9-B.ADA	P
CA1003A-AB.ADA	P	CA1003B-AB.ADA	P
CA1004A.ADA	P	CA1005A.ADA	P
CA1006A-AB.ADA	P	CA1008A0.ADA	P
CA1008A1M.ADA	P	CA1009A0.ADA	P
CA1009A1.ADA	P	CA1009A2.ADA	P
CA1009A3.ADA	P	CA1009A4M.ADA	P
CA1012A0-B.DEP	N/A	CA1012A1-B.DEP	N/A
CA1012A2-B.DEP	N/A	CA1012A3-B.DEP	N/A
CA1012A4M-B.DEP	N/A	CA1012B0-B.ADA	P
CA1012B2-B.ADA	P	CA1012B4M-B.ADA	P
CA1013A0-AB.ADA	P	CA1013A1-AB.ADA	P
CA1013A2-AB.ADA	P	CA1013A3-B.ADA	P
CA1013A4-B.ADA	P	CA1013A5-B.ADA	P
CA1013A6M-AB.ADA	P	CA1014A0M-AB.ADA	P
CA1014A1-AB.ADA	P	CA1014A2-AB.ADA	P
CA1014A3-AB.ADA	P	CA1016A0.ADA	P
CA1016A1.ADA	P	CA1016A2M.ADA	P
CA1020A0-B.ADA	P	CA1020A1-B.ADA	P

CA1020A2-B.ADA	P	CA1020A3-B.ADA	P
CA1020A4-B.ADA	P	CA1020A5-B.ADA	P
CA1020A6-B.ADA	P	CA1020A7-B.ADA	P
CA1020A8M-B.ADA	P	CA1105A0.ADA	P
CA1105A1M.ADA	P	CA1105B0.ADA	P
CA1105B1.ADA	P	CA1105B2.ADA	P
CA1105B3M.ADA	P	CA1105B4.ADA	P
CA1105B5.ADA	P	CA1107A0.ADA	P
CA1107A1M.ADA	P	CA1107A2.ADA	P
CA2001H0-B.ADA	P	CA2001H1-B.ADA	P
CA2001H2-B.ADA	P	CA2001H3M-B.ADA	P
CA2003A0M.ADA	P	CA2003A1.ADA	P
CA2004A0M.ADA	P	CA2004A1.ADA	P
CA2004A2.ADA	P	CA2007A0M-AB.ADA	P
CA2007A1-AB.ADA	P	CA2007A2-AB.ADA	P
CA2007A3-AB.ADA	P	CA2008A0M-B.ADA	P
CA2008A1-B.ADA	P	CA2008A2-B.ADA	P
CA3002A0-B.ADA	P	CA3002A1-B.ADA	P
CA3002A2M-B.ADA	P	CA3002A3-B.ADA	P
CA3006C0-B.ADA	P	CA3006C1-B.ADA	P
CA3006C2-B.ADA	P	CA3006C3-B.ADA	P
CA3006C4-B.ADA	P	CA3006C5M-B.ADA	P
CA5002A-B.ADA	P	CA5002B0-B.ADA	P
CA5002B1-B.ADA	P	CA5002B2-B.ADA	P
CA5002B3-B.ADA	P	CA5002B4-B.ADA	P
CA5002B5-B.ADA	P	CA5002B6-B.ADA	P
CA5002B7M-B.ADA	P	CA5003A0-B.ADA	P
CA5003A1-B.ADA	P	CA5003A2-B.ADA	P
CA5003A3-B.ADA	P	CA5003A4-B.ADA	P
CA5003A5-B.ADA	P	CA5003A6M-B.ADA	P
LA3004A0-AB.DEP	N/A	LA3004A1-AB.DEP	N/A
LA3004A2-AB.DEP	N/A	LA3004A3-AB.DEP	N/A
LA3004A4-AB.DEP	N/A	LA3004A5-AB.DEP	N/A
LA3004A6M-AB.DEP	N/A	LA3004B0-B.DEP	N/A
LA3004B1-B.DEP	N/A	LA3004B2-B.DEP	N/A
LA3004B3-B.DEP	N/A	LA3004B4-B.DEP	N/A
LA3004B5-B.DEP	N/A	LA3004B6M-B.DEP	N/A
LA3006A0-AB.ADA	P	LA3006A1-AB.ADA	P
LA3006A2-AB.ADA	P	LA3006A3-AB.ADA	P
LA3006A4-AB.ADA	P	LA3006A5-AB.ADA	P
LA3006A6M-AB.ADA	P	LA3006B0-AB.ADA	P
LA3006B1-AB.ADA	P	LA3006B2-AB.ADA	P
LA3006B3-AB.ADA	P	LA3006B4M-AB.ADA	P
LA3007A0-AB.ADA	P	LA3007A1-AB.ADA	P
LA3007A2-AB.ADA	P	LA3007A3-AB.ADA	P
LA3007A4M-AB.ADA	P	LA3007B0-B.ADA	P
LA3007B1-B.ADA	P	LA3007B2-B.ADA	P
LA3007B3-B.ADA	P	LA3007B4-B.ADA	P
LA3007B5-B.ADA	P	LA3007B6-B.ADA	P
LA3007B7-B.ADA	P	LA3007B8M-B.ADA	P
LA3008A0-AB.ADA	P	LA3008A1-AB.ADA	P

LA3008A2-AB.ADA	P	LA3008A3-AB.ADA	P
LA3008A4-AB.ADA	P	LA3008A5M-AB.ADA	P
LA3008B0.ADA	P	LA3008B1.ADA	P
LA3008B2.ADA	P	LA3008B3.ADA	P
LA3008B4.ADA	P	LA3008B5.ADA	P
LA3008B6M.ADA	P	LA5001A0-B.ADA	P
LA5001A1-B.ADA	P	LA5001A2-B.ADA	P
LA5001A3-B.ADA	P	LA5001A4-B.ADA	P
LA5001A5-B.ADA	P	LA5001A6M-B.ADA	P

CHAPTER 11 TEST RESULTS

BB2001A-AB.ADA	P	BB2002A-AB.ADA	P
BB2003A-AB.ADA	P	BB2003B-AB.ADA	P
BB2003C-AB.ADA	P	BB3001A-B.ADA	P
BB3002A-AB.ADA	P	BB3005A-AB.ADA	P
CB1001A-B.ADA	P	CB1002A.ADA	P
CB1003A-AB.ADA	P	CB1004A-AB.ADA	P
CB2004A-B.ADA	P	CB2005A-B.ADA	P
CB2006A-AB.ADA	P	CB2007A-AB.ADA	P
CB3003A-B.ADA	P	CB3004A-AB.ADA	P
CB4001A-AB.ADA	P	CB4002A-AB.ADA	P
CB4003A-AB.ADA	P	CB4004A-B.ADA	P
CB4005A-AB.ADA	P	CB4006A-B.ADA	P
CB4008A-AB.ADA	P	CB4009A-AB.ADA	P

CHAPTER 12 TEST RESULTS

BC1001A-B.ADA	P	BC1002A-B.ADA	P
BC1008A-AB.ADA	P	BC1008B-AB.ADA	P
BC1008C-AB.ADA	P	BC1009A-AB.ADA	P
BC1011A-AB.ADA	P	BC1011B-AB.ADA	P
BC1012A-AB.ADA	P	BC1013A-B.ADA	P
BC10ABA-B.ADA	P	BC10ABB-B.ADA	P
BC10ACA-B.ADA	P	BC10ADA-B.ADA	P
BC10AEA-B.ADA	P	BC10AEB-B.ADA	P
BC10AEC-B.ADA	P	BC10AED-B.ADA	P
BC10AFA-B.ADA	P	BC10AGA-B.ADA	P
BC1101A-AB.ADA	P	BC1102A-B.ADA	P
BC1103A-B.ADA	P	BC1104A-B.ADA	P
BC1104B-B.ADA	P	BC1106A-AB.ADA	P
BC1107A-B.ADA	P	BC11ABA-B.ADA	P
BC11ACA-B.ADA	P	BC1201A-AB.ADA	P
BC1201B-AB.ADA	P	BC1201C-AB.ADA	P
BC1201D-AB.ADA	P	BC1202A-AB.ADA	P
BC1202B-AB.ADA	P	BC1202C-AB.ADA	P
BC1202D-AB.ADA	P	BC1203A-AB.ADA	P
BC1207A-B.ADA	P	BC1226A-B.ADA	P
BC12ABA-B.ADA	P	BC12ACA-B.ADA	P
BC12ACB-B.ADA	P	BC1303A-AB.ADA	P
BC1303B-AB.ADA	P	BC1303C-AB.ADA	P
BC1303D-AB.ADA	P	BC1303E-AB.ADA	P
BC1306A-B.ADA	P	BC13ABA-B.ADA	P
BC2001A-AB.ADA	P	BC2001B-AB.ADA	P
BC2001C-AB.ADA	P	BC20ABA-B.ADA	P
BC3002A-AB.ADA	P	BC3002B-AB.ADA	P
BC3002C-AB.ADA	P	BC3002D-AB.ADA	P
BC3002E-AB.ADA	P	BC3003A-AB.ADA	P
BC3003B-AB.ADA	P	BC3005A-AB.ADA	P
BC3006A-AB.ADA	P	BC3011B-B.ADA	P
BC3011C-AB.ADA	P	BC3013A-AB.ADA	P
BC3018A-B.ADA	P	BC30ABA-B.ADA	P
BC30ACA-B.ADA	P	BC3101A-B.ADA	P
BC3101B-B.ADA	P	BC3102A-B.ADA	P
BC3102B-B.ADA	P	BC3103A-AB.ADA	P
BC3103B-AB.ADA	P	BC31ABA-B.ADA	P
BC31ACA-B.ADA	P	BC31ADA-B.ADA	P
BC3201A-B.ADA	P	BC3201B-AB.ADA	P
BC3201C-B.ADA	P	BC3202A-B.ADA	P
BC3202B-B.ADA	P	BC3202C-B.ADA	P
BC3203B-B.ADA	P	BC3204A-B.ADA	P
BC3204B-B.ADA	P	BC3204C0-B.ADA	P
BC3204C1M-B.ADA	P	BC3204C2-B.ADA	P
BC3204D-B.ADA	P	BC3204E-B.ADA	P
BC3205A-B.ADA	P	BC3205B-B.ADA	P
BC3205C-B.ADA	P	BC3205D0-B.ADA	P
BC3205D1M-B.ADA	P	BC3205D2-B.ADA	P

BC3205E-B.ADA	P	BC32ABA-B.ADA	P
BC32ADA-B.ADA	P	BC3301A-AB.ADA	P
BC3301B-AB.ADA	P	BC3302A-AB.ADA	P
BC3302B-AB.ADA	P	BC3303A-AB.ADA	P
BC3304A-AB.ADA	P	BC33ABA-B.ADA	P
BC33ACA-B.ADA	P	BC33ADA-B.ADA	P
BC33AEA-B.ADA	P	BC3401A-AB.ADA	P
BC3401B-AB.ADA	P	BC3402A-AB.ADA	P
BC3402B-AB.ADA	P	BC3403A-AB.ADA	P
BC3403B-AB.ADA	P	BC3403C-AB.ADA	P
BC3404A-AB.ADA	P	BC3404B-B.ADA	P
BC3404C-AB.ADA	P	BC3404D-AB.ADA	P
BC3404E-AB.ADA	P	BC3404F-AB.ADA	P
BC3405A-AB.ADA	P	BC3405B-B.ADA	P
BC3405D-AB.ADA	P	BC3405E-AB.ADA	P
BC3405F-AB.ADA	P	BC3501A-AB.ADA	P
BC3501B-AB.ADA	P	BC3501C-AB.ADA	P
BC3501D-AB.ADA	P	BC3501E-AB.ADA	P
BC3501F-AB.ADA	P	BC3501G-AB.ADA	P
BC3501H-AB.ADA	P	BC3501I-AB.ADA	P
BC3501J-AB.ADA	P	BC3501K-AB.ADA	P
BC3502A-AB.ADA	P	BC3502B-AB.ADA	P
BC3502C-AB.ADA	P	BC3502D-AB.ADA	P
BC3502E-AB.ADA	P	BC3502F-AB.ADA	P
BC3502G-AB.ADA	P	BC3502H-AB.ADA	P
BC3502I-AB.ADA	P	BC3502J-AB.ADA	P
BC3502K-AB.ADA	P	BC3502L-AB.ADA	P
BC3502M-AB.ADA	P	BC3502N-AB.ADA	P
BC3502O-AB.ADA	P	BC3503A-B.ADA	P
BC3503B-B.ADA	P	BC3503C-B.ADA	P
BC3503D-B.ADA	P	BC3503F-B.ADA	P
CC1004A-AB.ADA	P	CC1010A-AB.ADA	P
CC1010B-AB.ADA	P	CC1220A-B.ADA	P
CC1301A-B.ADA	P	CC1302A-AB.ADA	P
CC1304A-AB.ADA	P	CC1305B-AB.ADA	P
CC1307A-AB.ADA	P	CC1308A-AB.ADA	P
CC1310A-AB.ADA	P	CC2002A-AB.ADA	P
CC3004A-B.ADA	P	CC3007A-AB.ADA	P
CC3011A-B.ADA	P	CC3011D-B.ADA	P
CC3012A-AB.ADA	P	CC3120A-AB.ADA	P
CC3120B-B.ADA	P	CC3125A-B.ADA	P
CC3203A-B.ADA	P	CC3208A-AB.ADA	P
CC3208B-AB.ADA	P	CC3305A-AB.ADA	P
CC3305B-AB.ADA	P	CC3305C-AB.ADA	P
CC3305D-AB.ADA	P	CC3406A-AB.ADA	P
CC3406B-AB.ADA	P	CC3406C-AB.ADA	P
CC3406D-B.ADA	P	CC3407A-AB.ADA	P
CC3407B-AB.ADA	P	CC3407C-AB.ADA	P
CC3407D-AB.ADA	P	CC3407E-AB.ADA	P
CC3407F-AB.ADA	P	CC3408A-AB.ADA	P
CC3408B-AB.ADA	P	CC3408C-AB.ADA	P

CC3408D-B.ADA	P	CC3504A-B.ADA	P
CC3504B-B.ADA	P	CC3504C-B.ADA	P
CC3504D-B.ADA	P	CC3504E-B.ADA	P
CC3504F-B.ADA	P	CC3504G-B.ADA	P
CC3504H-B.ADA	P	CC3504I-B.ADA	P
CC3504J-B.ADA	P	CC3504K-B.ADA	P
CC3601C-AB.ADA	P	CC3602A-AB.ADA	P

CHAPTER 14 TEST RESULTS

AE2101A-B.ADA	P	AE2101B-B.ADA	P
AE2101C-B.DEP	N/A	AE2101D-B.ADA	P
AE3101A-B.ADA	P	AE3702A-B.ADA	P
AE3709A-B.ADA	P	BE2101E-B.ADA	P
BE2112A-B.ADA	P	BE2112B-B.ADA	P
BE2112C-B.ADA	P	BE2114A-B.ADA	P
BE2208A-B.ADA	P	BE3001A-B.ADA	P
BE3002A-B.ADA	P	BE3002E-B.ADA	P
BE3105A-B.ADA	P	BE3205A-B.ADA	P
BE3501A-B.ADA	P	BE3606C-B.ADA	P
BE3703A-B.ADA	P	BE3802A-B.ADA	P
BE3803A-B.ADA	P	BE3902A-B.ADA	P
BE3903A-B.ADA	P	CE2102A-B.ADA	P
CE2102B-B.ADA	P	CE2102C-B.ADA	P
CE2102D-B.DEP	N/A	CE2102E-B.DEP	N/A
CE2102F-B.DEP	N/A	CE2102G-B.DEP	N/A
CE2103A-B.TST	P	CE2103B-B.TST	P
CE2104A-B.ADA	P	CE2104B-B.ADA	P
CE2105A-B.ADA	P	CE2106A-B.ADA	P
CE2107A-B.DEP	N/A	CE2107B-B.DEP	N/A
CE2107C-B.DEP	N/A	CE2107D-B.DEP	N/A
CE2107E-B.DEP	N/A	CE2108A-B.ADA	P
CE2108B-B.ADA	P	CE2108C-B.ADA	P
CE2108D-B.ADA	P	CE2108E-B.ADA	P
CE2108F-B.ADA	P	CE2109A-B.ADA	P
CE2110A-B.ADA	P	CE2110B-B.DEP	N/A
CE2111A-B.ADA	P	CE2111B-B.ADA	P
CE2111C-B.ADA	P	CE2111D-B.DEP	N/A
CE2201A-B.ADA	P	CE2201B-B.ADA	P
CE2201C-B.ADA	P	CE2201D-B.DEP	N/A
CE2201E-B.DEP	N/A	CE2201F-B.ADA	P
CE2202A-B.ADA	N/A	CE2204A-B.ADA	P
CE2204B-B.ADA	P	CE2210A-B.DEP	P
CE2401A-B.ADA	P	CE2401B-B.ADA	P
CE2401C-B.ADA	P	CE2401D-B.DEP	N/A
CE2401E-B.ADA	P	CE2401F-B.ADA	P
CE2402A-B.ADA	P	CE2404A-B.ADA	P
CE2405B-B.ADA	P	CE2406A-B.ADA	P
CE2407A-B.ADA	P	CE2408A-B.ADA	P
CE2409A-B.ADA	P	CE2410A-B.ADA	P
CE3002B-B.TST	P	CE3002C-B.TST	P
CE3002D-B.ADA	P	CE3002F-B.ADA	P
CE3102A-B.ADA	P	CE3102B-B.TST	P
CE3103A-B.ADA	W	CE3104A-B.ADA	P
CE3107A-B.TST	P	CE3108A-B.ADA	P
CE3108B-B.ADA	P	CE3109A-B.ADA	P
CE3110A-B.DEP	P	CE3111A-B.DEP	P
CE3111B-B.DEP	N/A	CE3111C-B.DEP	N/A
CE3112A-B.ADA	P	CE3112B-B.ADA	P

CE3114A-B.ADA	P	CE3114B-B.DEP	N/A
CE3115A-B.DEP	N/A	CE3201A-B.ADA	P
CE3202A-B.ADA	P	CE3203A-B.ADA	P
CE3206A-B.ADA	P	CE3208A-B.ADA	P
CE3301A-B.ADA	P	CE3301B-B.ADA	P
CE3301C-B.ADA	P	CE3302A-B.ADA	P
CE3303A-B.ADA	P	CE3305A-B.ADA	P
CE3402A-B.ADA	P	CE3402B-B.ADA	P
CE3402C-B.ADA	P	CE3402D-B.ADA	P
CE3402E-B.ADA	P	CE3403A-B.ADA	P
CE3403B-B.ADA	P	CE3403C-B.ADA	P
CE3403D-B.ADA	P	CE3403E-B.ADA	P
CE3403F-B.ADA	P	CE3404A-B.ADA	P
CE3404B-B.ADA	P	CE3404C-B.ADA	P
CE3405A-B.ADA	P	CE3405B-B.ADA	P
CE3405C-B.ADA	P	CE3405D-B.ADA	P
CE3406A-B.ADA	P	CE3406B-B.ADA	P
CE3406C-B.ADA	P	CE3406D-B.ADA	P
CE3407A-B.ADA	P	CE3407B-B.ADA	P
CE3407C-B.ADA	P	CE3408A-B.ADA	P
CE3408B-B.ADA	P	CE3408C-B.ADA	P
CE3409A-B.ADA	P	CE3409B-B.ADA	P
CE3409C-B.ADA	P	CE3409D-B.ADA	P
CE3409E-B.ADA	P	CE3409F-B.ADA	P
CE3410A-B.ADA	P	CE3410B-B.ADA	P
CE3410C-B.ADA	P	CE3410D-B.ADA	P
CE3410E-B.ADA	P	CE3410F-B.ADA	P
CE3411A-B.ADA	P	CE3411C-B.ADA	P
CE3412A-B.ADA	P	CE3412C-B.ADA	P
CE3413A-B.ADA	P	CE3413C-B.ADA	P
CE3601A-B.ADA	P	CE3602A-B.ADA	P
CE3602B-B.ADA	P	CE3602C-B.ADA	P
CE3602D-B.ADA	P	CE3603A-B.ADA	P
CE3604A-B.ADA	P	CE3605A-B.ADA	P
CE3605B-B.ADA	P	CE3605C-B.ADA	P
CE3605D-B.ADA	P	CE3605E-B.ADA	P
CE3606A-B.ADA	P	CE3606B-B.ADA	P
CE3701A-B.ADA	P	CE3704A-B.ADA	P
CE3704B-B.ADA	P	CE3704C-B.ADA	P
CE3704D-B.ADA	P	CE3704E-B.ADA	P
CE3704F-B.ADA	P	CE3704M-B.ADA	P
CE3704O-B.ADA	P	CE3706C-B.ADA	P
CE3706D-B.ADA	P	CE3706F-B.ADA	P
CE3706G-B.ADA	P	CE3707A-B.ADA	P
CE3708A-B.ADA	N/A	CE3801A-B.ADA	P
CE3804A-B.ADA	P	CE3804B-B.ADA	P
CE3804C-B.ADA	P	CE3804D-B.ADA	P
CE3804E-B.ADA	W	CE3804F-B.ADA	P
CE3804G-B.ADA	P	CE3804I-B.ADA	P
CE3804K-B.ADA	P	CE3804M-B.ADA	P
CE3805A-B.ADA	P	CE3805B-B.ADA	P

CE3806A-B.ADA	P	CE3806C-B.ADA	P
CE3806D-B.ADA	P	CE3806E-B.ADA	P
CE3809A-B.ADA	P	CE3809B-B.ADA	P
CE3810A-B.ADA	P	CE3901A-B.ADA	P
CE3905A-B.ADA	P	CE3905B-B.ADA	P
CE3905C-B.ADA	P	CE3905L-B.ADA	P
CE3906A-B.ADA	P	CE3906B-B.ADA	P
CE3906C-B.ADA	P	CE3906D-B.ADA	P
CE3906E-B.ADA	P	CE3906F-B.ADA	P
CE3907A-B.ADA	P	CE3908A-B.ADA	P
EE3102C-B.ADA	P		

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