


TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT		CVH24.DAT															
By: TEST SYSTEMS, Inc.		11/20/13 (15:17:18)															
<b>CUSTOMER:</b>  Microsemi SOC Corp. 3870 N. First Street San Jose, CA 95134		<b>TEST STARTED:</b>  Nov. 20, 2013  <b>TEST COMPLETED:</b>  Nov. 20, 2013															
<b>UNIT UNDER TEST IDENTIFICATION:</b>  CORE1553BRM v4.0.007 running VHDL at 24 MHz (CVH24) Tested on SF2-CORE1553-DB (DVP-101-000404-001) Board REV-A and M2GL\M2S-EVAL-KIT REV-C (DVP-102-000402-001 RevC) using Aeroflex ACT 4453-001-5 Transceiver and Holt PM-DB2744 Transformers																	
<b>SUMMARY OF TEST RESULTS:</b> <table border="0" style="width: 100%;"> <thead> <tr> <th></th> <th>A-Bus</th> <th>B-Bus</th> </tr> </thead> <tbody> <tr> <td>Electrical:</td> <td>Passed</td> <td>Passed</td> </tr> <tr> <td>Required Protocol:</td> <td>Passed</td> <td>Passed</td> </tr> <tr> <td>Optional Protocol:</td> <td>Passed</td> <td>Passed</td> </tr> <tr> <td>Noise Rejection:</td> <td>Passed</td> <td>Passed</td> </tr> </tbody> </table>				A-Bus	B-Bus	Electrical:	Passed	Passed	Required Protocol:	Passed	Passed	Optional Protocol:	Passed	Passed	Noise Rejection:	Passed	Passed
	A-Bus	B-Bus															
Electrical:	Passed	Passed															
Required Protocol:	Passed	Passed															
Optional Protocol:	Passed	Passed															
Noise Rejection:	Passed	Passed															
<b>CERTIFICATE OF COMPLIANCE:</b>  TEST SYSTEMS, Inc., certifies that this MIL-STD-1553B REMOTE TERMINAL VALIDATION TEST REPORT provides the results of the RT Validation Testing performed on November 20, 2013, in Phoenix, AZ, for Microsemi SOC. TEST SYSTEMS, Inc., further certifies that this testing was in accordance with the RT VALIDATION TEST PROCEDURE dated 06-03-96 and complies with the RT Validation Test Plan (MIL-HDBK-1553 Appendix A) with the exceptions noted on page 2.																	
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">             Leroy Earhart         </div> <div style="text-align: center;">           11/20/2013            Date         </div> </div>																	
TEST SYSTEMS, Inc. 217 W. Palmarie Phoenix, AZ 85021 602/861-1010																	
SUBTITLE: Test Summary	DATE: 20 Nov 2013 TIME: 17:17:47	Page: 1 of 26															

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**EXCEPTIONS TO THE RT VALIDATION TEST PLAN:**

1. Step 6 of Reset remote terminal (5.2.1.5.3) is changed to repeat step 4 rather than step 5. (Error in Test Plan.)
2. Frequency Stability (5.1.1.10) and Terminal Fail-Safe (5.2.1.3.7) tests were not run.
3. Not all commands which cause the BUSY bit to be set are recorded for every test. This can be impractical in tests where 10,000 iterations are performed because of the volume of information that would be generated. Rather than recording each scenario in which the BUSY bit is set, this report provides a count of the messages in the scenarios which have the BUSY bit set.

**TEST COMMENTS:**

Remote Terminal Address and Status bits of Service Request, Busy and Terminal Flag were set and reset manually as required in the test plan from a laptop computer through a USB link on the unit and Subsystem Flag was set and reset using a switch on the unit.

5.1.1.3 Zero Crossing - An additional test was run off-line to measure the time of the first half sync from +3.0 volts to -3.0 volts. The nominal time is 1500 ns. Bus A 1514 ns; Bus B 1514 ns.

5.1.2.3 Input Impedance magnitude measurements recorded as 9999 ohms are actually 9999 ohms or greater.

5.3 Noise Rejection passed on both Buses with 165 mv of noise (25 mv more than required).

Protocol in this report was run with the illegalization shown on pages 4 and 5 implemented using the registers within the core. This illegalization was done to demonstrate the illegalization capability of the core.

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**NOTE:**

Command words are expressed in four fields with 5 bits in the first, third and fourth fields and 1 bit in the second field. Status words are expressed in four fields with 5 bits in the first and fourth fields and 3 bits in the second and third fields. Each field is given in decimal.

**TEST PERSONNEL:**

Leroy Earhart	TSI
Eugene O'Rourke	Microsemi

**EQUIPMENT LIST:**

EQUIPMENT TYPE	MANUFACTURER	CALIBRATION	
	MODEL NO./SERIAL NO.	Date Done	Date Due
1553 BUS TESTER *	TSI 122 / 8804111		N/A
Oscilloscope	MSOX3054A/MY52010665	01/27/12	01/27/14
Differential Probe	AG N2791A / PH49270334		N/A
True RMS Voltmeter	HP 3400A / 1218A27635	04/08/13	04/08/15
Impedance Analyzer	HP 4192A /2830J06227	04/08/13	04/08/15
Function Generator	Tenma 72-5015/ 8981068		N/A
Connection Panel	TSI 0100 / 900101		N/A

\* The 1553 BUS TESTER was modified by installing a single board computer and the following three TSI cards inside the chassis:  
PC/AT PARALLEL I/O CARD, MANCHESTER CARD & 1553 NOISE GENERATOR CARD

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Valid, Legal Non-Broadcast Commands (if not marked by '-')

Receive (T/R=0) Word Count Field

Transmit (T/R=1) Word Count Field

111111111122222222233  
SA 01234567890123456789012345678901

111111111122222222233  
SA 01234567890123456789012345678901

0 -----7-----  
1 01234567890123456789012345678901  
2 01234567890123456789012345678901  
3 01234567890123456789012345678901  
4 01234567890123456789012345678901  
5 01234567890123456789012345678901  
6 01234567890123456789012345678901  
7 01234567890123456789012345678901  
8 01234567890123456789012345678901  
9 01234567890123456789012345678901  
10 01234567890123456789012345678901  
11 01234567890123456789012345678901  
12 01234567890123456789012345678901  
13 01234567890123456789012345678901  
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22 01234567890123456789012345678901  
23 01234567890123456789012345678901  
24 01234567890123456789012345678901  
25 -----  
26 01234567890123456789012345678901  
27 -----  
28 01234567890123456789012345678901  
29 01234567890123456789012345678901  
30 01234567890123456789012345678901  
31 -----7-----

0 -12345678-----6-89-----  
1 01234567890123456789012345678901  
2 01234567890123456789012345678901  
3 01234567890123456789012345678901  
4 01234567890123456789012345678901  
5 01234567890123456789012345678901  
6 01234567890123456789012345678901  
7 01234567890123456789012345678901  
8 01234567890123456789012345678901  
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26 -----  
27 -----  
28 01234567890123456789012345678901  
29 01234567890123456789012345678901  
30 01234567890123456789012345678901  
31 -12345678-----6-89-----

Illegal Command Detection Implemented: Yes

Broadcast Implemented: Yes

Data Wrap-Around

Receive SA: 30 Transmit SA: 30

Terminal Address Used:

3

Coupling Used:

Transformer

Implemented Status bits:

ME SRB BCR BUSY SF TF

Implemented Non-Broadcast Mode Codes:

1,2,3,4,5,6,7,8,16,17,18,19

Implemented Broadcast Mode Codes:

1,3,4,5,6,7,8,17

SUBTITLE: Configuration Used  
Non-Broadcast Commands

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## TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT

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By: TEST SYSTEMS, Inc.

11/20/13 (15:17:18)

Valid, Legal Broadcast Commands (if not marked by '-')

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27 -----  
28 01234567890123456789012345678901  
29 01234567890123456789012345678901  
30 01234567890123456789012345678901  
31 -----7-----

0 -1-345678-----  
1 -----  
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6 -----  
7 -----  
8 -----  
9 -----  
10 -----  
11 -----  
12 -----  
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25 -----  
26 -----  
27 -----  
28 -----  
29 -----  
30 -----  
31 -1-345678-----

## Test STAT abbreviation definitions:

ABRT: Test Aborted

BCR: Broadcast Received

BRTF: Brdcst Rcvd+TermFlag

BUSY: Busy Bit

CS: Clear Status

DBA: Dynamic Bus Accepted

DC: Don't Care

EF: Error Found

Inhb: Operator Inhibited

INVL: Invalid Test

MBR: Msg Err+Brdcst Rcvd

MBRT: ME+TF+BCR

ME: Message Error

MTF: MsgErr+TermFlag

NR: No Response

NRun: Not Run

RIF: Respond In Form

SF: Subsystem Flag

SR: Service Request

TF: Terminal Flag

TO: Timed Out

VR: Valid Response

SUBTITLE: Configuration Used  
Broadcast Commands

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By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)	
Ref. Section	Test Description ( Xformr Coupled )	Limits	Units	B U S A Meas. STAT	B U S B Meas. STAT		
5.1.1	OUTPUT CHARACTERISTICS						
5.1.1.1	OUTPUT AMPLITUDE Max	18.0-27.0	Vpp	19.81	Pass	19.88	Pass
	Min	18.0-27.0	Vpp	19.56	Pass	19.56	Pass
5.1.1.2	OUTPUT RISE TIME-Sync	100- 300	ns	204	Pass	201	Pass
5.1.1.2	OUTPUT RISE TIME-Data	100- 300	ns	204	Pass	201	Pass
5.1.1.2	OUTPUT FALL TIME-Sync	100- 300	ns	204	Pass	195	Pass
5.1.1.2	OUTPUT FALL TIME-Data	100- 300	ns	205	Pass	200	Pass
5.1.1.3	ZERO CROSSING STAB.						
	500ns Tzcp	475- 525	ns	498	Pass	494	Pass
	1000ns Tzcp	975-1025	ns	1003	Pass	1004	Pass
	1500ns Tzcp	1475-1525	ns	1496	Pass	1497	Pass
	2000ns Tzcp	1975-2025	ns	1997	Pass	1997	Pass
	500ns Tzcn	475- 525	ns	502	Pass	496	Pass
	1000ns Tzcn	975-1025	ns	1005	Pass	1006	Pass
	1500ns Tzcn	1475-1525	ns	1507	Pass	1507	Pass
	2000ns Tzcn	1975-2025	ns	2005	Pass	2005	Pass
5.1.1.4	DISTORTION, OVERSHOOT AND RINGING	$\leq \pm 900$	mVp	50	Pass	50	Pass
5.1.1.5	OUTPUT SYMMETRY						
	(0000)	$\leq \pm 250$	mVp	-53	Pass	9	Pass
	(5555)	$\leq \pm 250$	mVp	-53	Pass	10	Pass
	(7FFF)	$\leq \pm 250$	mVp	-31	Pass	20	Pass
	(8000)	$\leq \pm 250$	mVp	-39	Pass	13	Pass
	(AAAA)	$\leq \pm 250$	mVp	-46	Pass	11	Pass
	(FFFF)	$\leq \pm 250$	mVp	-32	Pass	18	Pass
5.1.1.6	OUTPUT NOISE						
	with power on	$\leq 14$	mVrms	8	Pass	8	Pass
	with power off	$\leq 14$	mVrms	1	Pass	1	Pass
5.1.1.7	OUTPUT ISOLATION	$\geq 45$	db	72	Pass	72	Pass
	Active Bus	18.0-27.0	Vpp	19.81	Pass	19.88	Pass
	Inactive Bus		mVpp	5	Pass	5	Pass
5.1.1.8.1	POWER ON/OFF NOISE						
	Power Up Amplitude	$\leq \pm 250$	mVp	180	Pass	200	Pass
	Pulse Width		us	.1		.1	
	Power Down Amplitude	$\leq \pm 250$	mVp	50	Pass	50	Pass
	Pulse Width		us	.1		.1	
5.1.1.8.2	POWER ON RESPONSE	protocol	---		Pass		Pass
SUBTITLE: Electrical Tests			DATE:	20 Nov 2013	Page:		
5.1.1 Output Characteristics (XFR)			TIME:	17:17:47		6 of 26	

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By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)	
Ref. Section	Test Description ( Xformr Coupled )	Limits	Units	B U S A		B U S B	
				Meas.	STAT	Meas.	STAT
5.1.1.9	TERMINAL RESPONSE TIME						
	Transmit	4.0-12.0	us	5.94	Pass	5.93	Pass
	Receive	4.0-12.0	us	5.85	Pass	5.84	Pass
	RT-UUT	4.0-12.0	us	5.85	Pass	5.84	Pass
	Mode Command	4.0-12.0	us	5.94	Pass	5.93	Pass
5.1.1.10	FREQUENCY STABILITY						
	Min. Frequency		kHz				
	Max. Frequency		kHz				
	Avg. Frequency		kHz				
5.1.2	INPUT CHARACTERISTICS						
5.1.2.1.1	ZERO CROSSING						
	DISTORTION						
	Min. Deviation	≤ -150	ns	-187	Pass	-187	Pass
	Max. Deviation	≥ 150	ns	182	Pass	178	Pass
	Plus 150 nsec	protocol	---		Pass		Pass
	Minus 150 nsec	protocol	---		Pass		Pass
5.1.2.1.2	AMPLITUDE VARIATIONS						
	1st CS threshold	200- 860	mVpp	606	Pass	580	Pass
	1st NR threshold	200- 860	mVpp	590	Pass	570	Pass
5.1.2.1.3	RISE AND FALL TIME						
5.1.2.1.3.1	TRAPEZOIDAL	protocol	---		Pass		Pass
5.1.2.1.3.2	SINUSOIDAL	protocol	---		Pass		Pass
5.1.2.2	COMMON MODE REJECTION						
	+10 volt	protocol	---		Pass		Pass
	-10 volt	protocol	---		Pass		Pass
	±10 volt	protocol	---		Pass		Pass
SUBTITLE: Electrical Tests				DATE:	20 Nov 2013	Page:	
5.1.1.9 Terminal Resp. Time (XFR)				TIME:	17:17:47	7 of 26	

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By: TEST SYSTEMS, Inc.					11/20/13 (15:17:18)		
Ref. Section	Test Description ( Xformr Coupled )	Limits	Units	B U S A Meas. STAT	B U S B Meas. STAT		
5.1.2.3	INPUT IMPEDANCE						
	75 kHz Power ON Phase Angle	$\approx 1000$	ohms degs	9999 46	Pass	9999 42	Pass
	100 kHz Power ON Phase Angle	$\approx 1000$	ohms degs	9999 18	Pass	9999 9	Pass
	250 kHz Power ON Phase Angle	$\approx 1000$	ohms degs	8155 -62	Pass	7435 -66	Pass
	500 kHz Power ON Phase Angle	$\approx 1000$	ohms degs	3753 -77	Pass	3432 -79	Pass
	1.0 MHz Power ON Phase Angle	$\approx 1000$	ohms degs	1846 -83	Pass	1690 -84	Pass
	75 kHz Power OFF Phase Angle	$\approx 1000$	ohms degs	9999 38	Pass		Pass
	100 kHz Power OFF Phase Angle	$\approx 1000$	ohms degs	9999 5	Pass		Pass
	250 kHz Power OFF Phase Angle	$\approx 1000$	ohms degs	7018 -65	Pass		Pass
	500 kHz Power OFF Phase Angle	$\approx 1000$	ohms degs	3280 -78	Pass		Pass
	1.0 MHz Power OFF Phase Angle	$\approx 1000$	ohms degs	1616 -84	Pass		Pass
SUBTITLE: Electrical Tests 5.1.2.3 Input Impedance (XFR)			DATE: 20 Nov 2013 TIME: 17:17:47		Page: 8 of 26		



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By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)	
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.1	Response to Command Words						
5.2.1.1.1	RT Response to Commands Non-Broadcast Commands						
	Valid, Legal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 1792/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	B: ( 1792/ 0/ 0)	3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
	Valid, Illegal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 128/ 0/ 0)	3-0-25-00	3-4-0-00	ME	3-0-25-00	3-4-0-00	ME
	B: ( 128/ 0/ 0)	3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME
	Invalid Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 61440/ 0/ 0)	0-0-00-00	- - -	NR	0-0-00-00	- - -	NR
	B: ( 61440/ 0/ 0)	3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
	Legal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 16/ 0/ 0)	3-0-00-17	3-0-0-00	CS	3-0-00-17	3-0-0-00	CS
	B: ( 16/ 0/ 0)	3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
	Illegal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 6/ 0/ 0)	3-0-00-20	3-4-0-00	ME	3-0-00-20	3-4-0-00	ME
	B: ( 6/ 0/ 0)	3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME
	Undefined Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 98/ 0/ 0)	3-0-00-00	3-4-0-00	ME	3-0-00-00	3-4-0-00	ME
	B: ( 98/ 0/ 0)	3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME
SUBTITLE: Required Protocol Tests		DATE: 20 Nov 2013			Page:		
5.2.1.1. Response to Command Words		TIME: 17:17:47			9 of 26		

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH24.DAT		
By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)		
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B			
		Command	Response	STAT	Command	Response	STAT	
5.2.1.1	Response to Command Words							
5.2.1.1.1	RT Response to Commands							
	Broadcast Commands							
	Valid, Legal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 896/ 0/ 0)	31-0-01-00	- - -	NR	31-0-01-00	- - -	NR	
	B: ( 896/ 0/ 0)	3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR	
	Valid, Illegal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 1024/ 0/ 0)	31-0-25-00	- - -	NR	31-0-25-00	- - -	NR	
	B: ( 1024/ 0/ 0)	3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR	
	Invalid Commands			N/A			N/A	
				N/A			N/A	
				N/A			N/A	
	Legal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 8/ 0/ 0)	31-0-00-17	- - -	NR	31-0-00-17	- - -	NR	
	B: ( 8/ 0/ 0)	3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR	
	Illegal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 14/ 0/ 0)	31-0-00-20	- - -	NR	31-0-00-20	- - -	NR	
	B: ( 14/ 0/ 0)	3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR	
	Undefined Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 98/ 0/ 0)	31-0-00-00	- - -	NR	31-0-00-00	- - -	NR	
	B: ( 98/ 0/ 0)	3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR	
SUBTITLE: Required Protocol Tests		DATE: 20 Nov 2013		Page:				
5.2.1.1. Response to Command Words		TIME: 17:17:47		10 of 26				

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By: TEST SYSTEMS, Inc.

CVH24.DAT  
11/20/13 (15:17:18)

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.1	Response to Command Words						
5.2.1.1.2	RT-RT Response to Command Words Non-Broadcast Receive Commands						
	Valid, Legal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 896/ 0/ 0)	3-0-01-01	3-0-0-00	CS	3-0-01-01	3-0-0-00	CS
	B: ( 896/ 0/ 0)	4-1-01-01	4-0-0-00	CS	4-1-01-01	4-0-0-00	CS
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
	Valid, Illegal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 64/ 0/ 0)	3-0-25-01	3-4-0-00	ME	3-0-25-01	3-4-0-00	ME
	B: ( 64/ 0/ 0)	4-1-01-01	4-0-0-00	CS	4-1-01-01	4-0-0-00	CS
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME
	Invalid Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 30720/ 0/ 0)	0-0-00-00	- - -	NR	0-0-00-00	- - -	NR
	B: ( 30720/ 0/ 0)	2-1-01-00	2-0-0-00	CS	2-1-01-00	2-0-0-00	CS
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
	Legal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 2/ 0/ 0)	3-0-00-17	3-0-0-00	CS	3-0-00-17	3-0-0-00	CS
	B: ( 2/ 0/ 0)	4-1-01-01	4-0-0-00	CS	4-1-01-01	4-0-0-00	CS
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
	Illegal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 4/ 0/ 0)	3-0-00-20	3-4-0-00	ME	3-0-00-20	3-4-0-00	ME
	B: ( 4/ 0/ 0)	4-1-01-01	4-0-0-00	CS	4-1-01-01	4-0-0-00	CS
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME
	Undefined Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 58/ 0/ 0)	3-0-00-00	3-4-0-00	ME	3-0-00-00	3-4-0-00	ME
	B: ( 58/ 0/ 0)	4-1-01-00	4-0-0-00	CS	4-1-01-00	4-0-0-00	CS
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME

SUBTITLE: Required Protocol Tests  
5.2.1.1. Response to Command Words

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By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)		
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B			
		Command	Response	STAT	Command	Response	STAT	
5.2.1.1	Response to Command Words							
5.2.1.1.2	RT-RT Response to Command Words Non-Broadcast Transmit Commands							
	Valid, Legal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 896/ 0/ 0)	4-0-01-01	- - -	NR	4-0-01-01	- - -	NR	
	B: ( 896/ 0/ 0)	3-1-01-01	3-0-0-00	CS	3-1-01-01	3-0-0-00	CS	
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS	
	Valid, Illegal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 64/ 0/ 0)	4-0-01-01	- - -	NR	4-0-01-01	- - -	NR	
	B: ( 64/ 0/ 0)	3-1-26-01	3-4-0-00	ME	3-1-26-01	3-4-0-00	ME	
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME	
	Invalid Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 30720/ 0/ 0)	2-0-01-00	- - -	NR	2-0-01-00	- - -	NR	
	B: ( 30720/ 0/ 0)	0-1-00-00	- - -	NR	0-1-00-00	- - -	NR	
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS	
	Legal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 14/ 0/ 0)	4-0-01-00	- - -	NR	4-0-01-00	- - -	NR	
	B: ( 14/ 0/ 0)	3-1-00-01	3-0-0-00	CS	3-1-00-01	3-0-0-00	CS	
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS	
	Illegal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 2/ 0/ 0)	4-0-01-00	- - -	NR	4-0-01-00	- - -	NR	
	B: ( 2/ 0/ 0)	3-1-00-00	3-4-0-00	ME	3-1-00-00	3-4-0-00	ME	
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME	
	Undefined Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 40/ 0/ 0)	4-0-01-00	- - -	NR	4-0-01-00	- - -	NR	
	B: ( 40/ 0/ 0)	3-1-00-09	3-4-0-00	ME	3-1-00-09	3-4-0-00	ME	
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME	
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TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH24.DAT	
By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)	
Reference Section	Test Description Bus: (num cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.1	Response to Command Words						
5.2.1.1.2	RT-RT Response to Command Words Broadcast Receive Commands						
	Valid, Legal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 896/ 0/ 0)	31-0-01-01	- - -	NR	31-0-01-01	- - -	NR
	B: ( 896/ 0/ 0)	0-1-01-01	0-0-0-00	CS	0-1-01-01	0-0-0-00	CS
		3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
	Valid, Illegal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 64/ 0/ 0)	31-0-25-01	- - -	NR	31-0-25-01	- - -	NR
	B: ( 64/ 0/ 0)	0-1-01-01	0-0-0-00	CS	0-1-01-01	0-0-0-00	CS
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
	Invalid Commands			N/A			N/A
				N/A			N/A
				N/A			N/A
				N/A			N/A
	Legal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 2/ 0/ 0)	31-0-00-17	- - -	NR	31-0-00-17	- - -	NR
	B: ( 2/ 0/ 0)	0-1-01-01	0-0-0-00	CS	0-1-01-01	0-0-0-00	CS
		3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
	Illegal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 4/ 0/ 0)	31-0-00-20	- - -	NR	31-0-00-20	- - -	NR
	B: ( 4/ 0/ 0)	0-1-01-01	0-0-0-00	CS	0-1-01-01	0-0-0-00	CS
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
	Undefined Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 58/ 0/ 0)	31-0-00-00	- - -	NR	31-0-00-00	- - -	NR
	B: ( 58/ 0/ 0)	0-1-01-00	0-0-0-00	CS	0-1-01-00	0-0-0-00	CS
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
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5.2.1.1. Response to Command Words		TIME: 17:17:47		13 of 26			

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By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)		
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B			
		Command	Response	STAT	Command	Response	STAT	
5.2.1.1	Response to Command Words							
5.2.1.1.2	RT-RT Response to Command Words Broadcast Transmit Commands							
	Valid, Legal Commands			N/A N/A N/A N/A			N/A N/A N/A N/A	
	Valid, Illegal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 960/ 0/ 0)	0-0-01-01	- - -	NR	0-0-01-01	- - -	NR	
	B: ( 960/ 0/ 0)	31-1-01-01	- - -	NR	31-1-01-01	- - -	NR	
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR	
	Invalid Commands			N/A N/A N/A N/A			N/A N/A N/A N/A	
	Legal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 6/ 0/ 0)	0-0-01-00	- - -	NR	0-0-01-00	- - -	NR	
	B: ( 6/ 0/ 0)	31-1-00-01	- - -	NR	31-1-00-01	- - -	NR	
		3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR	
	Illegal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 10/ 0/ 0)	0-0-01-00	- - -	NR	0-0-01-00	- - -	NR	
	B: ( 10/ 0/ 0)	31-1-00-00	- - -	NR	31-1-00-00	- - -	NR	
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR	
	Undefined Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 40/ 0/ 0)	0-0-01-00	- - -	NR	0-0-01-00	- - -	NR	
	B: ( 40/ 0/ 0)	31-1-00-09	- - -	NR	31-1-00-09	- - -	NR	
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR	
SUBTITLE: Required Protocol Tests				DATE: 20 Nov 2013		Page:		
5.2.1.1. Response to Command Words				TIME: 17:17:47		14 of 26		

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH24.DAT		
By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)		
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B			
		Command	Response	STAT	Command	Response	STAT	
5.2.1.2	Intermessage Gap							
5.2.1.2.1	Minimum Time							
	BC-UUT Transfer	3-0-05-00	3-0-0-00	CS	3-0-05-00	3-0-0-00	CS	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
	UUT-BC Transfer	3-1-02-00	3-0-0-00	CS	3-1-02-00	3-0-0-00	CS	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
	UUT/RT Transfer	3-0-21-00	3-0-0-00	CS	3-0-21-00	3-0-0-00	CS	
	A: ( 1000/ 0/ 0)	4-1-01-00	4-0-0-00	CS	4-1-01-00	4-0-0-00	CS	
	B: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	RT/UUT Transfer	25-0-01-00	25-0-0-00	DC	4-0-01-00	4-0-0-00	DC	
	A: ( 1000/ 0/ 0)	3-1-24-00	3-0-0-00	CS	3-1-24-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	Mode Command w/o data	3-1-00-01	3-0-0-00	CS	3-1-00-01	3-0-0-00	CS	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
	Mode Command, Transmit w/Data	3-1-00-16	3-0-0-00	CS	3-1-00-16	3-0-0-00	CS	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
	Mode Command, Receive w/Data	3-0-00-17	3-0-0-00	CS	3-0-00-17	3-0-0-00	CS	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
	Broadcast BC-UUT	31-0-00-00	- - -	NR	31-0-00-00	- - -	NR	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
	Broadcast RT/UUT	31-0-01-30	- - -	NR	31-0-01-30	- - -	NR	
	A: ( 1000/ 0/ 0)	3-1-30-30	3-0-0-00	CS	3-1-30-30	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	Broadcast UUT/RT	31-0-00-17	- - -	NR	31-0-00-17	- - -	NR	
	A: ( 1000/ 0/ 0)	0-1-01-01	0-0-0-00	CS	0-1-01-01	0-0-0-00	CS	
	B: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	Broadcast Mode Cmdnd w/o data	31-1-00-01	- - -	NR	31-1-00-01	- - -	NR	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
	Broadcast Mode Cmdnd w/data	31-0-00-17	- - -	NR	31-0-00-17	- - -	NR	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
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5.2.1.2. Intermessage Gap				TIME: 17:17:47		15 of 26		

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By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)	
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.2	Intermessage Gap						
5.2.1.2.2	Transmission Rate						
	Transmit-Transmit	3-1-06-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
	A: ( 19352/ 0/ 0)	3-1-07-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
	B: ( 19342/ 0/ 0)	3-1-06-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
		3-1-07-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
	Busy (usec)		0			0	
	Receive-Receive	3-0-10-00	3-0-0-00	CS	3-0-10-00	3-0-0-00	CS
	A: ( 19322/ 0/ 0)	3-0-11-00	3-0-0-00	CS	3-0-11-00	3-0-0-00	CS
	B: ( 19336/ 0/ 0)	3-0-10-00	3-0-0-00	CS	3-0-10-00	3-0-0-00	CS
		3-0-11-00	3-0-0-00	CS	3-0-11-00	3-0-0-00	CS
	Busy (usec)		0			0	
	Transmit-Receive	3-1-20-00	3-0-0-00	CS	3-1-20-00	3-0-0-00	CS
	A: ( 19324/ 0/ 0)	3-0-21-00	3-0-0-00	CS	3-0-21-00	3-0-0-00	CS
	B: ( 19324/ 0/ 0)	3-1-20-00	3-0-0-00	CS	3-1-20-00	3-0-0-00	CS
		3-0-21-00	3-0-0-00	CS	3-0-21-00	3-0-0-00	CS
	Busy (usec)		0			0	
5.2.1.3	Error Injection						
5.2.1.3.1	Parity						
5.2.1.3.1.1	Transmit Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-1-06-00	- - -	NR	3-1-06-00	- - -	NR
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.3.1.2	Receive Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.3.1.3	Receive Data Words	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 32/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 32/ 0/ 0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
SUBTITLE: Required Protocol Tests				DATE: 20 Nov 2013		Page:	
5.2.1.2. Intermessage Gap				TIME: 17:17:47		16 of 26	



TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH24.DAT	
By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)	
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.3.2	Word Length						
5.2.1.3.2.1	Transmit Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 2/ 0/ 0)	3-1-06-00	- - -	NR	3-1-06-00	- - -	NR
	B: ( 2/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.3.2.2	Receive Command						
	Short Receive commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 2/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 2/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
	Long Receive commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 2/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 2/ 0/ 0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
5.2.1.3.2.3	Receive Data Words	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 126/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 126/ 0/ 0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
5.2.1.3.3	Bi-Phase Encoding						
5.2.1.3.3.1	Transmit Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 34/ 0/ 0)	3-1-06-00	- - -	NR	3-1-06-00	- - -	NR
	B: ( 34/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.3.3.2	Receive Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 34/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 34/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.3.3.3	Receive Data Words	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 1088/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 1088/ 0/ 0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
5.2.1.3.4	Sync Encoding						
5.2.1.3.4.1	Transmit Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 5/ 0/ 0)	3-1-06-00	- - -	NR	3-1-06-00	- - -	NR
	B: ( 5/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.3.4.2	Receive Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 5/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 5/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.3.4.3	Receive Data Words	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 160/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 160/ 0/ 0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
SUBTITLE: Required Protocol Tests				DATE: 20 Nov 2013		Page:	
5.2.1.3.2. Word Length				TIME: 17:17:47		17 of 26	

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH24.DAT	
By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)	
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.3.5	Message Length						
5.2.1.3.5.1	Transmit Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-1-06-00	- - -	NR	3-1-06-00	- - -	NR
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
5.2.1.3.5.2	Receive Command A: ( 33/ 0/ 0) B: ( 33/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
5.2.1.3.5.3	Receive Mode Command A: ( 2/ 0/ 0) B: ( 2/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-00-17	- - -	NR	3-0-00-17	- - -	NR
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
	Transmit Mode Command A: ( 1/ 0/ 0) B: ( 1/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-1-00-01	- - -	NR	3-1-00-01	- - -	NR
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
5.2.1.3.5.4	RT-RT Word Count Error A: ( 2/ 0/ 0) B: ( 2/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		4-1-01-00	4-0-0-00	CS	4-1-01-00	4-0-0-00	CS
		3-0-08-00	- - -	NR	3-0-08-00	- - -	NR
		4-1-01-00	4-0-0-00	CS	4-1-01-00	4-0-0-00	CS
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
5.2.1.3.6	Contiguous Data A: ( 32/ 0/ 0) B: ( 32/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
5.2.1.3.7	Terminal Fail-Safe						
5.2.1.4	Superseding Commands part A	3-0-01-00	- - -	NR	3-0-01-00	- - -	NR
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
	part B	3-0-01-00	- - -	NR	3-0-01-00	- - -	NR
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
	part C	3-0-01-00	- - -	NR	3-0-01-00	- - -	NR
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
	part D	3-0-01-00	- - -	NR	3-0-01-00	- - -	NR
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
SUBTITLE: Required Protocol Tests 5.2.1.3.5. Message Length				DATE: 20 Nov 2013 TIME: 17:17:47		Page: 18 of 26	

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT  
By: TEST SYSTEMS, Inc.

CVH24.DAT  
11/20/13 (15:17:18)

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.5	Required Mode Commands						
5.2.1.5.1	Transmit Status	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 2/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
	B: ( 2/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
		3-0-01-00	- - -	NR	3-0-01-00	- - -	NR
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.5.2	Xmtr Shutdown/Override	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 4/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	B: ( 4/ 0/ 0)	3-1-00-04	3-0-0-00	CS	3-1-00-04	3-0-0-00	CS
		3-0-01-00	- - -	NR	3-0-01-00	- - -	NR
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-1-00-05	- - -	NR	3-1-00-05	- - -	NR
		3-0-01-00	- - -	NR	3-0-01-00	- - -	NR
		3-1-00-05	3-0-0-00	CS	3-1-00-05	3-0-0-00	CS
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
5.2.1.5.3	Reset Remote Terminal Delay to Stable Response	3-1-00-08	3-0-0-00	CS	3-1-00-08	3-0-0-00	CS
	A: ( 1764/ 0/ 0)	3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
	B: ( 1764/ 0/ 0)						
	(T ≤ 5000us)		4			4	
	Shutdown	3-1-00-04	3-0-0-00	CS	3-1-00-04	3-0-0-00	CS
	A: ( 2/ 0/ 0)	3-1-01-00	- - -	NR	3-1-01-00	- - -	NR
	B: ( 2/ 0/ 0)	3-1-00-08	3-0-0-00	CS	3-1-00-08	3-0-0-00	CS
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
5.2.1.6	Data Wrap-around	3-0-30-00	3-0-0-00	CS	3-0-30-00	3-0-0-00	CS
	A: ( 10000/ 0/ 0)	3-1-30-00	3-0-0-00	CS	3-1-30-00	3-0-0-00	CS
	B: ( 10000/ 0/ 0)						
5.2.1.7	RT-RT Timeout Delay Time to first NR	3-0-01-00	- - -	NR	3-0-01-00	- - -	NR
		4-1-01-00	4-0-0-00	CS	4-1-01-00	4-0-0-00	CS
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
	(54us ≤ T ≤ 60us)		57.5			57.5	
	Time to first CS	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		4-1-01-00	4-0-0-00	CS	4-1-01-00	4-0-0-00	CS
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
	(54us ≤ T ≤ 60us)		57.0			57.0	
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5.2.1.5. Required Mode Commands		TIME: 17:17:47		19 of 26			

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By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)	
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.8	Bus Switching						
	RT Transmitting						
	Valid, Legal Command	3-1-02-00	- - -	NR	3-1-02-00	- - -	NR
	A: ( 10945/ 0/ 0)	3-1-05-00	3-0-0-00	CS	3-1-05-00	3-0-0-00	CS
	B: ( 10945/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
	Command w/Parity Error	3-1-02-00	3-0-0-00	CS	3-1-02-00	3-0-0-00	CS
	A: ( 10945/ 0/ 0)	3-1-05-00	- - -	NR	3-1-05-00	- - -	NR
	B: ( 10945/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
	Command to another RT	3-1-02-00	3-0-0-00	CS	3-1-02-00	3-0-0-00	CS
	A: ( 10945/ 0/ 0)	4-1-05-00	- - -	NR	4-1-05-00	- - -	NR
	B: ( 10945/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
	RT Receiving						
	Valid, Legal Command	3-0-01-00	- - -	NR	3-0-01-00	- - -	NR
	A: ( 11649/ 0/ 0)	4-1-05-00	4-0-0-00	CS	4-1-05-00	4-0-0-00	CS
	B: ( 11649/ 0/ 0)	3-1-05-00	3-0-0-00	CS	3-1-05-00	3-0-0-00	CS
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
	Command w/Parity Error	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 11649/ 0/ 0)	4-1-05-00	4-0-0-00	CS	4-1-05-00	4-0-0-00	CS
	B: ( 11649/ 0/ 0)	3-1-05-00	- - -	NR	3-1-05-00	- - -	NR
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
	Command to another RT	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 11649/ 0/ 0)	4-1-05-00	4-0-0-00	CS	4-1-05-00	4-0-0-00	CS
	B: ( 11649/ 0/ 0)	4-1-05-00	- - -	NR	4-1-05-00	- - -	NR
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
SUBTITLE: Required Protocol Tests				DATE: 20 Nov 2013		Page:	
5.2.1.8. Bus Switching				TIME: 17:17:47		20 of 26	

## TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT

CVH24.DAT

By: TEST SYSTEMS, Inc.

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Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.9	Unique UUT Address part A						
	UUT Adr 0	0-0-05-00	0-0-0-00	CS	0-0-05-00	0-0-0-00	CS
	UUT Adr 1	1-0-05-00	1-0-0-00	CS	1-0-05-00	1-0-0-00	CS
	UUT Adr 2	2-0-05-00	2-0-0-00	CS	2-0-05-00	2-0-0-00	CS
	UUT Adr 3	3-0-05-00	3-0-0-00	CS	3-0-05-00	3-0-0-00	CS
	UUT Adr 4	4-0-05-00	4-0-0-00	CS	4-0-05-00	4-0-0-00	CS
	UUT Adr 5	5-0-05-00	5-0-0-00	CS	5-0-05-00	5-0-0-00	CS
	UUT Adr 6	6-0-05-00	6-0-0-00	CS	6-0-05-00	6-0-0-00	CS
	UUT Adr 7	7-0-05-00	7-0-0-00	CS	7-0-05-00	7-0-0-00	CS
	UUT Adr 8	8-0-05-00	8-0-0-00	CS	8-0-05-00	8-0-0-00	CS
	UUT Adr 9	9-0-05-00	9-0-0-00	CS	9-0-05-00	9-0-0-00	CS
	UUT Adr 10 (0A)	10-0-05-00	10-0-0-00	CS	10-0-05-00	10-0-0-00	CS
	UUT Adr 11 (0B)	11-0-05-00	11-0-0-00	CS	11-0-05-00	11-0-0-00	CS
	UUT Adr 12 (0C)	12-0-05-00	12-0-0-00	CS	12-0-05-00	12-0-0-00	CS
	UUT Adr 13 (0D)	13-0-05-00	13-0-0-00	CS	13-0-05-00	13-0-0-00	CS
	UUT Adr 14 (0E)	14-0-05-00	14-0-0-00	CS	14-0-05-00	14-0-0-00	CS
	UUT Adr 15 (0F)	15-0-05-00	15-0-0-00	CS	15-0-05-00	15-0-0-00	CS
	UUT Adr 16 (10)	16-0-05-00	16-0-0-00	CS	16-0-05-00	16-0-0-00	CS
	UUT Adr 17 (11)	17-0-05-00	17-0-0-00	CS	17-0-05-00	17-0-0-00	CS
	UUT Adr 18 (12)	18-0-05-00	18-0-0-00	CS	18-0-05-00	18-0-0-00	CS
	UUT Adr 19 (13)	19-0-05-00	19-0-0-00	CS	19-0-05-00	19-0-0-00	CS
	UUT Adr 20 (14)	20-0-05-00	20-0-0-00	CS	20-0-05-00	20-0-0-00	CS
	UUT Adr 21 (15)	21-0-05-00	21-0-0-00	CS	21-0-05-00	21-0-0-00	CS
	UUT Adr 22 (16)	22-0-05-00	22-0-0-00	CS	22-0-05-00	22-0-0-00	CS
	UUT Adr 23 (17)	23-0-05-00	23-0-0-00	CS	23-0-05-00	23-0-0-00	CS
	UUT Adr 24 (18)	24-0-05-00	24-0-0-00	CS	24-0-05-00	24-0-0-00	CS
	UUT Adr 25 (19)	25-0-05-00	25-0-0-00	CS	25-0-05-00	25-0-0-00	CS
	UUT Adr 26 (1A)	26-0-05-00	26-0-0-00	CS	26-0-05-00	26-0-0-00	CS
	UUT Adr 27 (1B)	27-0-05-00	27-0-0-00	CS	27-0-05-00	27-0-0-00	CS
	UUT Adr 28 (1C)	28-0-05-00	28-0-0-00	CS	28-0-05-00	28-0-0-00	CS
	UUT Adr 29 (1D)	29-0-05-00	29-0-0-00	CS	29-0-05-00	29-0-0-00	CS
	UUT Adr 30 (1E)	30-0-05-00	30-0-0-00	CS	30-0-05-00	30-0-0-00	CS
	UUT Adr 31 (1F)	31-0-05-00	- - -	NR	31-0-05-00	- - -	NR
	part B	31-0-05-00	- - -	NR	31-0-05-00	- - -	NR
SUBTITLE: Required Protocol Tests		DATE: 20 Nov 2013		Page:			
5.2.1.9. Unique UUT Address		TIME: 17:17:47		21 of 26			

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH24.DAT	
By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)	
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.2.1	Optional Protocol						
5.2.2.1.1	Dynamic Bus Control	3-1-00-00	3-4-0-00	ME	3-1-00-00	3-4-0-00	ME
	A: ( 2/ 0/ 0)						
	B: ( 2/ 0/ 0)						
5.2.2.1.2	Synchronize						
5.2.2.1.2.1	Synchronize without data	3-1-00-01	3-0-0-00	CS	3-1-00-01	3-0-0-00	CS
	A: ( 2/ 0/ 0)						
	B: ( 2/ 0/ 0)						
5.2.2.1.2.2	Synchronize with data	3-0-00-17	3-0-0-00	CS	3-0-00-17	3-0-0-00	CS
	A: ( 2/ 0/ 0)						
	B: ( 2/ 0/ 0)						
	SYNC Word		0000			0000	
5.2.2.1.3	Initiate Self-Test	3-1-00-03	3-0-0-00	CS	3-1-00-03	3-0-0-00	CS
	A: ( 1964/ 0/ 0)	3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
	B: ( 1964/ 0/ 0)						
	(T ≤ 100,000us)		4			4	
5.2.2.1.4	Transmit BIT word	3-1-00-19	3-0-0-00	CS	3-1-00-19	3-0-0-00	CS
	A: ( 2/ 0/ 0)						
	B: ( 2/ 0/ 0)						
	BIT Word		200c			200c	
5.2.2.1.5	Selective Xmtr Shutdown	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 4/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	B: ( 4/ 0/ 0)	3-0-00-20	3-4-0-00	ME	3-0-00-20	3-4-0-00	ME
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-00-21	3-4-0-00	ME	3-0-00-21	3-4-0-00	ME
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-00-21	3-4-0-00	ME	3-0-00-21	3-4-0-00	ME
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-00-20	3-4-0-00	ME	3-0-00-20	3-4-0-00	ME
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	Alt Bus Selection Word		0000			0000	
	Pri Bus Selection Word		0000			0000	
5.2.2.1.6	Terminal Flag Bit Inhibit	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 4/ 0/ 0)	3-1-01-01	3-0-0-01	DC	3-1-01-01	3-0-0-01	DC
	B: ( 4/ 0/ 0)	3-0-01-00	3-0-0-01	TF	3-0-01-00	3-0-0-01	TF
		3-1-00-06	3-0-0-00	CS	3-1-00-06	3-0-0-00	CS
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-1-31-07	3-0-0-01	TF	3-1-31-07	3-0-0-01	TF
		3-0-01-00	3-0-0-01	TF	3-0-01-00	3-0-0-01	TF
		3-1-01-01	3-0-0-00	DC	3-1-01-01	3-0-0-00	DC
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
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5.2.2.1. Optional Protocol				TIME: 17:17:47	22 of 26		

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By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)	
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.2.1.7	Transmit Vector Word A: ( 2/ 0/ 0) B: ( 2/ 0/ 0) VECTOR Word	3-1-00-16	3-0-0-00	CS	3-1-00-16	3-0-0-00	CS
5.2.2.1.8	Transmit Last Command A: ( 2/ 0/ 0) B: ( 2/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-01-01	- - -	NR	3-0-01-01	- - -	NR
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
5.2.2.2	Status Word						
5.2.2.2.1	Service Request	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-1-01-01	3-1-0-00	DC	3-1-01-01	3-1-0-00	DC
		3-1-01-00	3-1-0-00	SR	3-1-01-00	3-1-0-00	SR
		3-1-01-00	3-1-0-00	SR	3-1-01-00	3-1-0-00	SR
		3-1-01-01	3-0-0-00	DC	3-1-01-01	3-0-0-00	DC
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
5.2.2.2.2	Broadcast Command Received	31-0-01-00	- - -	NR	31-0-01-00	- - -	NR
		3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		31-0-01-00	- - -	NR	31-0-01-00	- - -	NR
		3-1-01-01	3-0-0-00	CS	3-1-01-01	3-0-0-00	CS
		31-0-01-00	- - -	NR	31-0-01-00	- - -	NR
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
5.2.2.2.3	Busy	3-1-01-01	3-0-0-08	DC	3-1-01-01	3-0-0-08	DC
		3-1-02-00	3-0-0-08	BUSY	3-1-02-00	3-0-0-08	BUSY
		3-1-01-01	3-0-0-00	DC	3-1-01-01	3-0-0-00	DC
		3-1-01-01	3-0-0-00	CS	3-1-01-01	3-0-0-00	CS
5.2.2.2.4	Subsystem Flag	3-1-01-01	3-0-0-04	DC	3-1-01-01	3-0-0-04	DC
		3-1-02-00	3-0-0-04	SF	3-1-02-00	3-0-0-04	SF
		3-1-01-01	3-0-0-00	DC	3-1-01-01	3-0-0-00	DC
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
5.2.2.2.5	Terminal Flag	3-1-01-01	3-0-0-01	DC	3-1-01-01	3-0-0-01	DC
		3-0-01-00	3-0-0-01	TF	3-0-01-00	3-0-0-01	TF
		3-1-01-01	3-0-0-00	DC	3-1-01-01	3-0-0-00	DC
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
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5.2.2.1.7. Transmit Vector Word				TIME: 17:17:47		23 of 26	

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By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)	
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.2.3	Illegal Command part A	3-0-25-00	3-4-0-00	ME	3-0-25-00	3-4-0-00	ME
		3-1-02-00	3-0-0-00	CS	3-1-02-00	3-0-0-00	CS
		3-0-25-00	- - -	NR	3-0-25-00	- - -	NR
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
		3-0-25-00	- - -	NR	3-0-25-00	- - -	NR
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
	part B	3-1-26-00	3-4-0-00	ME	3-1-26-00	3-4-0-00	ME
		3-1-02-00	3-0-0-00	CS	3-1-02-00	3-0-0-00	CS
		3-0-25-00	- - -	NR	3-0-25-00	- - -	NR
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
		3-0-25-00	- - -	NR	3-0-25-00	- - -	NR
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
5.2.2.4	Broadcast Mode Commands						
5.2.2.4.1	Synchronize without data	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 2/ 0/ 0)	3-1-00-01	- - -	NR	3-1-00-01	- - -	NR
	B: ( 2/ 0/ 0)	3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
5.2.2.4.2	Synchronize with data	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 2/ 0/ 0)	3-1-00-17	- - -	NR	3-1-00-17	- - -	NR
	B: ( 2/ 0/ 0)	3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
	SYNC Word		0000			0000	
5.2.2.4.3	Initiate Self-Test	3-1-00-03	- - -	NR	3-1-00-03	- - -	NR
	A: ( 1968/ 0/ 0)	3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
	B: ( 1968/ 0/ 0)						
	(T ≤ 100,000us)		4			4	
5.2.2.4.4	Xmtr Shutdown/Override	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-1-00-04	- - -	NR	3-1-00-04	- - -	NR
		3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
		3-0-01-00	- - -	NR	3-0-01-00	- - -	NR
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-1-00-05	- - -	NR	3-1-00-05	- - -	NR
		3-0-01-00	- - -	NR	3-0-01-00	- - -	NR
		3-1-00-05	- - -	NR	3-1-00-05	- - -	NR
		3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
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5.2.2.3. Illegal Command				TIME: 17:17:47		24 of 26	



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By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)		
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B			
		Command	Response	STAT	Command	Response	STAT	
5.2.2.4.5	Selective Xmtr Shutdown	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 4/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 4/ 0/ 0)	31-0-00-20	- - -	NR	31-0-00-20	- - -	NR	
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		31-0-00-21	- - -	NR	31-0-00-21	- - -	NR	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		31-0-00-21	- - -	NR	31-0-00-21	- - -	NR	
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		31-0-00-20	- - -	NR	31-0-00-20	- - -	NR	
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		Alt Bus Selection Word		0000		0000		
		Pri Bus Selection Word		0000		0000		
	5.2.2.4.6	Terminal Flag Bit Inhibit	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		A: ( 4/ 0/ 0)	3-1-01-01	3-0-0-01	DC	3-1-01-01	3-0-0-01	DC
		B: ( 4/ 0/ 0)	3-0-01-00	3-0-0-01	TF	3-0-01-00	3-0-0-01	TF
			31-1-00-06	- - -	NR	31-1-00-06	- - -	NR
			3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
			3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
			31-1-31-07	- - -	NR	31-1-31-07	- - -	NR
			3-1-00-18	3-0-0-17	BRTF	3-1-00-18	3-0-0-17	BRTF
			3-0-01-00	3-0-0-01	TF	3-0-01-00	3-0-0-01	TF
			3-1-01-01	3-0-0-00	DC	3-1-01-01	3-0-0-00	DC
			3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
5.2.2.4.7		Reset Remote Terminal						
		Delay to Stable Response	31-1-00-08	- - -	NR	31-1-00-08	- - -	NR
	A: ( 1768/ 0/ 0)	3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS	
	B: ( 1768/ 0/ 0)							
	(T ≤ 5000us)		4			4		
	Clear Xmtr Shutdown	3-1-00-04	3-0-0-00	CS	3-1-00-04	3-0-0-00	CS	
	A: ( 2/ 0/ 0)	3-1-01-00	- - -	NR	3-1-01-00	- - -	NR	
	B: ( 2/ 0/ 0)	31-1-00-08	- - -	NR	31-1-00-08	- - -	NR	
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS	
	5.2.2.4.8	Dynamic Bus Control	3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
A: ( 2/ 0/ 0)		31-1-00-00	- - -	NR	31-1-00-00	- - -	NR	
B: ( 2/ 0/ 0)		3-1-00-02	3-4-0-16	MBR	3-1-00-02	3-4-0-16	MBR	
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5.2.2.4.5. Selective Xmtr Shutdown				TIME: 17:17:47		25 of 26		

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By: TEST SYSTEMS, Inc.						11/20/13 (15:17:18)		
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B			
		Command	Response	STAT	Command	Response	STAT	
5.2.2.5	Error Injection							
	-Broadcast Messages							
5.2.2.5.1	Parity: BC-RT Broadcast							
5.2.2.5.1.1	Command w/Parity Error	31-0-01-01	- - -	NR	31-0-01-01	- - -	NR	
		3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		31-0-01-00	- - -	NR	31-0-01-00	- - -	NR	
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
5.2.2.5.1.2	Data Word Error	31-0-01-01	- - -	NR	31-0-01-01	- - -	NR	
	A: ( 32/ 0/ 0)	3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR	
	B: ( 32/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		31-0-01-00	- - -	NR	31-0-01-00	- - -	NR	
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
5.2.2.5.2	Message Length: BC-RT Broadcast	31-0-01-01	- - -	NR	31-0-01-01	- - -	NR	
		3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR	
	A: ( 33/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 33/ 0/ 0)	31-0-01-00	- - -	NR	31-0-01-00	- - -	NR	
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
5.2.3	Noise Rejection	3-0-30-00	- - -	EF	3-0-30-00	- - -	EF	
	Words Received	52,100,004		PASS	60,200,019		PASS	
	Noise Level used (mV)	165			165			
	A: ( 1578788/ 1/ 0)							
	B: ( 1824243/ 2/ 0)							
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5.2.2.5. Error Injection				TIME: 17:17:47	26 of 26			