TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT By: TEST SYSTEMS, Inc.	BVL24.DAT 11/14/13 (15:14:14)
CUSTOMER:	TEST STARTED:
Microsemi SOC Corp. 3870 N. First Street	Nov. 14, 2013
San Jose, CA 95134	TEST COMPLETED:
	Nov. 14, 2013

UNIT UNDER TEST IDENTIFICATION:

CORE1553BRT v4.0.004 running Verilog at 24 MHz (BVL24) 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

SUMMARY OF TEST RESULTS:	A-Bus	B-Bus
 Electrical:	Passed	Passed
Required Protocol:	Passed	Passed
Optional Protocol:	Passed	Passed
Noise Rejection:	Passed	Passed
ii		

CERTIFICATE OF COMPLIANCE:

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 14, 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.

Leyoy Earhart Date

TEST SYSTEMS, Inc. 217 W. Palmaire Phoenix, AZ 85021 602/861-1010

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVL24.DAT By: TEST SYSTEMS, Inc. 11/14/13 (15:14:14)

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 were set using switches on the test board.

- 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 170 mv of noise (30 mv more than required).

Protocol in this report was run with the illegalization shown on pages 4 and 5 implemented internal to the core. This illegalization was done to demonstrate internal illegalization capability of the core. Protocol was rerun off-line with no illegalization and passed on both Buses.

| SUBTITLE: | DATE: 14 Nov 2013 | Page: | | TIME: 17:14:50 | 2 of 26

1			1
TEST	SYSTEMS, Inc.	. MIL-STD-1553B RT VALIDATION TEST REPORT	BVL24.DAT
$\ \mathtt{B}\mathtt{y}$:	TEST SYSTEM	S, Inc.	11/14/13 (15:14:14)
II			1

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:

	MANUFACTURER	CALIBRATION
EQUIPMENT TYPE	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	
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	
]

^{*} 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

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVL24.DAT TEST SYSTEMS, Inc. 11/14/13 (15:14:14) By: Valid, Legal Non-Broadcast Commands (if not marked by '-') Receive (T/R=0) Word Count Field Transmit (T/R=1) Word Count Field 111111111122222222233 111111111122222222233 SA 01234567890123456789012345678901 SA 01234567890123456789012345678901 0 -----0 -12345678-----6-89------1 01234567890123456789012345678901 1 01234567890123456789012345678901 2 01234567890123456789012345678901 2 01234567890123456789012345678901 3 01234567890123456789012345678901 3 01234567890123456789012345678901 4 01234567890123456789012345678901 4 01234567890123456789012345678901 5 01234567890123456789012345678901 5 01234567890123456789012345678901 6 01234567890123456789012345678901 6 01234567890123456789012345678901 7 01234567890123456789012345678901 7 01234567890123456789012345678901 8 01234567890123456789012345678901 8 01234567890123456789012345678901 9 01234567890123456789012345678901 9 01234567890123456789012345678901 10 01234567890123456789012345678901 10 01234567890123456789012345678901 11 01234567890123456789012345678901 11 01234567890123456789012345678901 12 01234567890123456789012345678901 12 01234567890123456789012345678901 13 01234567890123456789012345678901 13 01234567890123456789012345678901 14 01234567890123456789012345678901 14 01234567890123456789012345678901 15 01234567890123456789012345678901 15 01234567890123456789012345678901 16 01234567890123456789012345678901 16 01234567890123456789012345678901 17 01234567890123456789012345678901 17 01234567890123456789012345678901 18 01234567890123456789012345678901 18 01234567890123456789012345678901 19 01234567890123456789012345678901 19 01234567890123456789012345678901 20 01234567890123456789012345678901 20 01234567890123456789012345678901 21 01234567890123456789012345678901 21 01234567890123456789012345678901 22 01234567890123456789012345678901 22 01234567890123456789012345678901 23 01234567890123456789012345678901 23 01234567890123456789012345678901 24 01234567890123456789012345678901 24 01234567890123456789012345678901 25 -----25 01234567890123456789012345678901 26 01234567890123456789012345678901 26 -----27 01234567890-----27 ----567890123456-----28 01234567890123456789012345678901 28 01234567890123456789012345678901 29 01234567890123456789012345678901 29 01234567890123456789012345678901 30 01234567890123456789012345678901 30 01234567890123456789012345678901 31 -----7-----31 -12345678-----6-89-----Illegal Command Detection Implemented: Yes Broadcast Implemented: Data Wrap-Around Receive SA: 30 Transmit SA: 30 Terminal Address Used: 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 DATE: **14** Nov 2013 Page: Non-Broadcast Commands TIME: 17:14:50 4 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVL24.DAT TEST SYSTEMS, Inc. By: 11/14/13 (15:14:14) Valid, Legal Broadcast Commands (if not marked by '-') Receive (T/R=0) Word Count Field Transmit (T/R=1) Word Count Field 111111111122222222233 111111111122222222233 SA 01234567890123456789012345678901 SA 01234567890123456789012345678901 0 -----0 -1-345678-----1 01234567890123456789012345678901 2 01234567890123456789012345678901 3 01234567890123456789012345678901 4 01234567890123456789012345678901 5 01234567890123456789012345678901 6 01234567890123456789012345678901 7 01234567890123456789012345678901 8 01234567890123456789012345678901 9 -----9 01234567890123456789012345678901 10 01234567890123456789012345678901 11 01234567890123456789012345678901 11 -----12 -----12 01234567890123456789012345678901 13 -----13 01234567890123456789012345678901 14 01234567890123456789012345678901 15 -----15 01234567890123456789012345678901 16 01234567890123456789012345678901 16 -----17 -----17 01234567890123456789012345678901 18 01234567890123456789012345678901 19 -----19 01234567890123456789012345678901 20 01234567890123456789012345678901 21 -----21 01234567890123456789012345678901 22 01234567890123456789012345678901 22 -----23 -----23 01234567890123456789012345678901 24 -----24 01234567890123456789012345678901 25 -----26 ------26 01234567890123456789012345678901 27 01234567890-----27 ------28 -------28 01234567890123456789012345678901 29 01234567890123456789012345678901 30 01234567890123456789012345678901 30 -----31 -1-345678------31 -----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 Rovd | MBRT: ME+TF+BCR ME: Message Error MTF: MsqErr+TermFlag NR: No Response RIF: Respond In Form NRun: Not Run SF: Subsystem Flag SR: Service Request TF: Terminal Flag TO: Timed Out VR: Valid Response 14 Nov 2013 | Page: SUBTITLE: Configuration Used DATE: Broadcast Commands TIME: 17:14:50 5 of 26

Ref. Section	Test Description (Xformr Coupled)	Limits	Units	B U S Meas.	A STAT	B U S Meas.	B STAT
5.1.1	OUTPUT CHARACTERISTICS		 		<u>-</u>		
5.1.1.1	OUTPUT AMPLITUDE Max	18.0-27.0	Vpp	19.81	Pass	19.88	Page
	Min	18.0-27.0	Vpp	19.56		19.56	•
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		Pass
5.1.1.2	OUTPUT FALL TIME-Data	100- 300	ns	205	Pass		Pas
5.1.1.3	ZERO CROSSING STAB.				 	l	i 1
	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	Pas:
	2000ns Tzcp	1975-2025	ns	1997	Pass	1997	Pas
	500ns Tzcn	475- 525	ns	502	Pass	496	Pas
	1000ns Tzcn	975-1025	ns	1005	Pass	1006	Pas
	1500ns Tzcn	1475-1525	ns	1507	Pass	1507	Pas
	2000ns Tzcn	1975-2025 	ns	2005	Pass	2005	Pas
5.1.1.4	DISTORTION, OVERSHOOT] 		
	AND RINGING	≤ ± 900	mVp	50	Pass	50	Pas
.1.1.5	OUTPUT SYMMETRY						
	(0000)	≤ ± 250	mVp	-53	Pass	9	Pas
	(5555)	≤ ± 250	mVp	-53	Pass	10	Pas
	(7FFF)	≤ ± 250	mVp	-31	Pass	20	Pas
	(8000)	≤ ± 250	mVp	-39	Pass	13	Pas
	(AAAA)	≤ ± 250	mVp	-46	Pass	11	Pas
	(FFFF)	≤ ± 250	mVp	-32	Pass	18	Pas
5.1.1.6	OUTPUT NOISE]		
	with power on	≤ 14	mVrms	8	Pass	8	Pas
	with power off	≤ 14 	mVrms	1	Pass 	1.	Pas
5.1.1.7	OUTPUT ISOLATION	≥ 45	db	72	Pass	72	 Pas
	Active Bus	18.0-27.0	Vpp	19.81	Pass	19.88	Pas
	Inactive Bus	 	mVpp	5	Pass	5	Pas
5.1.1.8.1	POWER ON/OFF NOISE						
	Power Up Amplitude	≤ ± 250	mVp	180	Pass	200	Pas
	Pulse Width	1	us	.1]	.1	
	Power Down Amplitude Pulse Width	•	nVp ∣us	50 .1	Pass	50 .1	Pas
		İ			<u> </u>	, -	
5.1.1.8.2	POWER ON RESPONSE	protocol		.	Pass	1	Pas

TEST SYSTEMS, Inc. MIL-STD-15538 RT VALIDATION TEST REPORT BVL24.DAT ∥By: TEST SYSTEMS, Inc. 11/14/13 (15:14:14) Test Description Limits |Units| BUS A BUS B Ref. Section (Xformr Coupled) Meas. | STAT | Meas. | STAT | [5.1.1.9 TERMINAL RESPONSE TIME Transmit 4.0-12.0 5.90 | Pass | 5.89 | Pass| us Receive 4.0-12.0 | us 5.81 | Pass | 5.80 | Pass | 5.80 Pass RT-UUT 4.0-12.0 5.81 Pass lus 4.0-12.0 us Mode Command 5.90 Pass 5.89 Pass 5.1.1.10 FREQUENCY STABILITY kHzMin. Frequency kHz Max. Frequency Avg. Frequency kHz5.1.2 INPUT CHARACTERISTICS 5.1.2.1.1 ZERO CROSSING DISTORTION Min. Deviation ≤ -150 -187 |Pass| -187 |Pass| ns Max. Deviation ≥ 150 $\mathbf{n}\mathbf{s}$ 182 | Pass | 178 | Pass Plus 150 nsec protocol Pass Pass Minus 150 nsec protocol Pass Pass AMPLITUDE VARIATIONS 5.1.2.1.2 1st CS threshold 200-860 mVpp 605 | Pass | 580 Pass 1st NR threshold 200- 860 mVpp 590 Pass 560 |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: 14 Nov 2013 | Page: 5.1.1.9 Terminal Resp. Time (XFR) TIME: 17:14:50 7 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVL24.DAT By: TEST SYSTEMS, Inc. 11/14/13 (15:14:14)| Ref. Section Test Description Limits Units BUS BUS B (Xformr Coupled) Meas. | STAT | Meas. | STAT | 5.1.2.3 INPUT IMPEDANCE 75 kHz Power ON ≥ 1000 ohms 9999 |Pass| 9999 Pass Phase Angle degs 46 100 kHz Power ON ≥ 1000 ohms 9999 Pass 9999 Pass Phase Angle degs 18 250 kHz Power ON ≥ 1000 ohms 8155 Pass 7435 Pass Phase Angle degs -62 -66 500 kHz Power ON ≥ 1000 ohms 3753 Pass 3432 Pass! Phase Angle degs -77 -79 1.0 MHz Power ON ≥ 1000 ohms 1846 Pass 1690 Pass Phase Angle degs -83 -84 75 kHz Power OFF ≥ 1000 ohms 9999 Pass Pass Phase Angle degs 38 100 kHz Power OFF ≥ 1000 ohms 9999 Pass Pass Phase Angle degs 5 250 kHz Power OFF ≥ 1000 ohms 7018 Pass Pass Phase Angle degs -65 500 kHz Power OFF ≥ 1000 ohms 3280 Pass Pass Phase Angle degs -78 1.0 MHz Power OFF ≥ 1000 ohms 1616 Pass Pass Phase Angle degs -84 SUBTITLE: Electrical Tests DATE: 14 Nov 2013 | Page: 5.1.2.3 Input Impedance (XFR) TIME: 17:14:50 8 of 26

y: TEST	SYSTEMS, Inc	: .					:	11/14/13	(15:14	4:14
eference	Test De	aaarin	tion		В	IS A		в и	s B	n
Section	Bus: (run	_		ent)	Command Response ST2			Command	Response	STA
										ļ
1.2.1.1	 Response to	o Comm	and W	orda						[i
.2.1.1.1	RT Response				1 		 	1 		1
	Non-Br						! 	i i		
					j j			i i		
	Valid,	Legal	Comm	ands	3-1-01-01	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: (1815/	0/	0)	3-0-01-00	3-0-0-00	CS	3.0.01-00	3-0-0-00	CS
	В: (1815/	0/	0)	3-1-00-18	3-0-0-00	cs	3-1-00-18	3-0-0-00	CS
					! 		 	i !		[]
	Valid,	Illeg	al Co	mmands	3-1-01-01	3-0-0-00	cs	3-0-01-00	3-0-0-00	cs
	A: (105/	0/	0)	3-0-25-00	3-4-0-00	ME	3-0-25 00	3-4-0-00	ME
	B; (105/	0/	0)	3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME
	Invali	d Comm	ands		3-1-01-01	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
					i i		! 	 		
	Legal	Mode C	omman	ds	3-1-01-01	3-0-0-00	CS	3-0-01-00	3-0-0-00	cs
	A: (16/	0/	0)	3-0-00-17		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
	 Illega	3 1 92 93	3-0-0-00	cs		0 0 0 00				
	A:(# MOGC	. COMM. 0/	0)	1	3-0-0-00	ME	3 -0-01-00		CS
	B: (6/	0/	0)	1	3-4-0-00	ME	3-1-00-18		ME
	Undefi	ned Mc	de Co	mmands	3-1-01-01	3.0.0-00	cs	3-0-01-00	3-0-0-00	cs
	A: (98/	0/	0)	3-0-00-00	1	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
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SUBTITLE:	Required Pr				•					

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Reference	Test Description	вт	JS A		' BUS B			
Section	Bus: (rum cnt/ errors/ busy cnt)	Command	Response	STAT	Command C	Response	STAT	
5.2.1.1 5.2.1.1.1	Response to Command Words RT Response to Commands	!]]			
J.2	Broadcast Commands		1 					
		İ	į	İ				
	Valid, Legal Commands	i	3-0-0-00	CS	3-0-01-00		1	
	A: (907/ 0/ 0)	31-0-01-00	i	NR DCD	31-0-01-00		NR	
	B: (907/ 0/ 0)	3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR	
	Valid, Illegal Comman	de 3_1_01_01	3-0-0-00	 cs	3-0-01-00	3-0-0-00	 cs	
	A: (1013/ 0/ 0)	31-0-25 00	:	NR	31-0-25-00		NR	
	B:(1013/ 0/ 0)	1	;	MBR	3-1-00-18		MBR	
		[
	Invalid Commands	j	 	N/A	.		N/	
			ļ	N/A	: !		N/	
			<u> </u>	N/A 			N/	
	Legal Mode Commands	3-1-01-01	3-0-0-00	 cs	3-0-01-00	3-0-0-00	cs	
	A: (8/ 0/ 0)	31-0-00-17	1	NR	31-0-00-17		NR	
	B: (8/ 0/ 0)	3-1-00-18	3-0-0-16	BCR	3-1-00-18		BCR	
	Tilogol Modo Commando			 				
	Illegal Mode Commands A: (14/ 0/ 0)	310-00-20	:	CS NR	31-0-00-20	3-0-0-00	CS NR	
	B: (14/ 0/ 0)	:	3 4-0-16	MBR	: :	3-4-0 16	MBR	
		0 11 00 20				3 2 3 10		
	Undefined Mode Commar	ids 3-1-03-01	3-0-0-00	cs	3-0-01-00	3-0-0 OC	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	
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5.2.1.1 Response to Command Words RT-RT Response to Commands Valid, Legal Commands Valid, Legal Commands Valid, Legal Commands Valid, Legal Commands Valid, Legal Commands 3:1-01-01 3:0-0-00 3:0-0-00 3:0-0-00 3:0-0-00 3:1-00-18 3:0-0-00 CS 3:1-00-18 3:0-0-00 CS 3:1-00-18 3:0-0-00 CS 3:1-00-18 3:0-0-00 CS 3:1-00-18 3:0-0-00 CS 3:1-00-18 3:0-0-00 CS 3:1-00-18 3:0-0-00 CS 3:1-00-18 3:0-0-00 CS 3:1-00-18	Reference	1	escrip			BUS A			BUS B			
Non-Broadcast Receive Sandard	Section	Hus: (run	cnt/ error	a/busy (ent)	Command	Response	STAT	Command	Response	STAT	
A:		RT-RT Re Comman Non-Br	sponse d Word: oadcas:	to s								
A:		 Valid.	Legal	Comm	ands	3-1-01-01	3.40000	l cs	; 3-0-01-00	3-0-0-00	lcs	
B:(997/ 0/ 0)		i				1 1			!		cs	
Valid, Illegal Commands		В. (•		1		cs	! !		CS	
A: (53/ 0/ 0)						3-1-00-18	3-0-0-00	cs	:		CS	
A: (53/ 0/ 0)]	
B: (53/ 0/ 0)		Valid,	Illeg	al Co	mmands	3-1-01-01	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
Invalid Commands 3-1-00-18 3.4-0-00 ME 3-1-00-18 3.4-0-00 ME		A: (53/	0/	O)	3-0-25-01	3-4-0-00	ME	3-0-25-01	3-4-0-00	ME	
Invalid Commands A: (30720/ 0/ 0) 0-0-00-00		В: (53/	0/	0)	4-1-01-01	4-0-0-00	CS	4-1-01-01	4-0-0-00	CS	
A: (30720/ 0/ 0) 0-0-09-00 NR 0-0-0-00 NR B: (30720/ 0/ 0) 2-2-01-00 2-0-0-00 CS 2-1-01-00 2-0-0-0 CS 3-1-00-18 3-0-0-00 CS 3-1-00-18 3-0-0-00 CS A: (2/ 0/ 0) 3-0-00-17 3-0-0-00 CS 3-0-0-17 3-0-0-0 CS B: (2/ 0/ 0) 4-1-01-01 4-0-0-00 CS 3-0-01-00 3-0-0-00 CS B: (2/ 0/ 0) 4-1-01-01 4-0-0-00 CS 3-1-00-18 3-0-0-00 CS A: (4/ 0/ 0) 3-0-00-20 3-4-0-00 ME 3-0-0-20 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 A: (4/ 0/ 0) 3-0-00-20 3-4-0-00 ME 3-0-0-00 CS A: (58/ 0/ 0) 3-0-00-00 3-4-0-00 ME 3-0-0-00 CS A: (58/ 0/ 0) 3-0-0-00 CS 3-0-0-00 CS 3-0-0-00 CS A: (58/ 0/ 0) 3-0-0-00 CS						3-1-00-18	3 -4 -000	ME 	3-1-00-18	3-4-0-00	ME	
A: (30720/ 0/ 0) 0-0-09-00 NR 0-0-00-00 NR B: (30720/ 0/ 0) 2-1-01-00 2-0-0-00 CS 2-1-01-00 2-0-0-0 CS 3-1-00-18 3-0-0-00 CS 3-1-00-18 3-0-0-00 CS A: (2/ 0/ 0) 3-0-00-17 3-0-0-00 CS 3-0-0-17 3-0-0-0 CS B: (2/ 0/ 0) 4-1-01-01 4-0-0-00 CS 3-0-01-00 3-0-0-00 CS B: (2/ 0/ 0) 4-1-01-01 4-0-0-00 CS 3-1-00-18 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 A: (58/ 0/ 0) 3-0-00-20 3-4-0-00 ME 3-0-0-08 3-4-0-00 ME Undefined Mode Commands 3-1-01-01 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 CS 3-0-0-00 CS A: (58/ 0/ 0) 3-0-00-00 3-4-0-00 ME 3-0-00-00 CS 3-0-0-00 CS A: (58/ 0/ 0) 3-0-00-00 3-4-0-00 ME 3-0-00-00 3-0-0-00 CS A: (58/ 0/ 0) 3-0-00-00 3-4-0-00 ME 3-0-00-00 3-0-0-00 CS A: (58/ 0/ 0) 3-0-00-00 3-4-0-00 ME 3-0-00-00 3-0-0-00 CS A: (58/ 0/ 0) 3-0-00-00 3-4-0-00 ME 3-0-00-00 3-0-0-00 CS A: (58/ 0/ 0) 3-0-00-00 3-4-0-00 ME 3-0-00-00 3-0-0-00 CS A: (58/ 0/ 0) 3-0-00-00 3-4-0-00 ME 3-0-00-00 3-0-0-00 CS A: (58/ 0/ 0) 3-0-00-00 3-4-0-00 ME 3-0-00-00 3-0-0-00 CS A: (58/ 0/ 0) 3-0-00-00 3-4-0-00 ME 3-0-0-00 (3-0-0-00 CS 4-1-01-00 4-0-0-00 C		 Invali	d Comm	ande				l ce	2 0 01 00	3 6 6 66	Ice	
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Legal Mode Commands A: (2/ 0/ 0)						: :		:	:		lcs	
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A: (2/ 0/ 0) 3-0-00-17 3-0-0-00 CS 3-0-00-17 3-0-0-00 C B: (2/ 0/ 0) 4-1-01-01 4-0-0-00 CS 4-1-01-01 4-0-0-00 C 3-1-00-18 3-0-0-00 CS 3-1-00-18 3-0-0-00 C Illegal Mode Commands 3-1-01-01 3-0-0-00 CS 3-0-01-00 3-0-0-00 C A: (4/ 0/ 0) 3-0-00-20 3-4-0-00 ME 3-0-00-20 3-4-0-00 M B: (4/ 0/ 0) 4-1-01-01 4-0-0-0 CS 4-1-01-01 4-0-0-0 C Undefined Mode Commands 3-1-01-01 3-0-0-00 CS 3-0-01-00 3-0-0-0 C A: (58/ 0/ 0) 3-0-00-00 3-4-0-00 ME 3-0-00-00 3-0-0-0 C A: (58/ 0/ 0) 3-0-00-00 3-4-0-00 ME 3-0-00-00 CS 4-1-01-00 3-0-0-0 C A: (58/ 0/ 0) 4-1-01-00 4-0-0-0 CS 4-1-01-00 4-0-0-0 CS 4-0-00 ME									 			
B:(2/ 0/ 0)		Legal	Mode C	omman	.ds	3-1-01-01	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 C Illegal Mode Commands 3-1-01-01 3-0-0-00 CS 3-0-01-00 3-0-0-00 C A: \langle 4 / 0 / 0 \rangle 0 3-0-00-20 3-4-0-00 ME 3-0-00-20 3-4-0-00 M B: \langle 4 / 0 / 0 \rangle 0 4-1-01-01 4-0-0-00 CS 4-1-01-01 4-0-0-00 C 3-1-00-18 3-4-0-00 ME 3-1-00-18 3-4-0-00 M Undefined Mode Commands 3-1-01-01 3-0-0-00 CS 3-0-01-00 3-0-0-00 C A: \langle 58 / 0 / 0 \rangle 0 3-0-00-00 3-4-0-00 ME 3-0-00-00 3-4-0-00 M B: \langle 58 / 0 / 0 \rangle 0 4-1-01-00 4-0-0-00 CS 4-1-01-00 4-0-0-00 C CS 3-0-01-00 3-0-0-00 C A: \langle 58 / 0 / 0 3-0-00-00 3-4-0-00 CS 4-1-01-00 4-0-0-00 C CS 3-0-01-00 3-0-0-00 C		A: (2/	0/	0)	3-0-00-17	3 - 0 - 0 - 00	CS	3-0-00-17	3 0-0-00	CS	
Illegal Mode Commands 3-1-01-01 3-0-0-00 CS 3-0-01-00 3-0-0-00 C A: (B:(2/	0/	0)	4-1-01-01	4-0-0-00	cs	4-1-01-01	4-0-0 00	CS	
A: (4/ 0/ 0)						3-1-00-18	3-0-0-00	CS 	3-1-09-18	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 M B: (4/ 0/ 0) 4-1-01-01 4-0-0-00 CS 4-1-01-01 4-0-0-00 C 3-1-00-18 3-4-0-00 ME 3-1-00-18 3-4-0-00 M Undefined Mode Commands 3-1-01-01 3-0-0-00 CS 3-0-01-00 3-0-0-00 C A: (58/ 0/ 0) 3-0-00-00 3-4-0-00 ME 3-0-00-00 3-4-0-00 M B: (58/ 0/ 0) 4-1-01-00 4-0-0-00 CS 4-1-01-00 4-0-0-00 C		Tllogs	l Mode	Comm	2000		2 0 0 00	lce			lac	
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i i i i i i i i i i i i i i i i i i i		A: (58/	0/	0)	3-0-00-00	3-4-0-00	ME	3-0-00-00	3 4-0-00	ME	
3-1-00-18 3-4-0-00 ME 3-1-00-18 3-4-0-00 M		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	
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y: TEST	SYSTEMS, In	c.						11/14/13 (15:14:14			
eference	Test D	escript	-ion		BUSA			BUSB			
Section	;	ent/error;		ent)	Command	Response	STAT	Command	Response	STA	
							<u> </u>				
5.2.1.1 5.2.1.1.2	!	sponse d Words oadcast	to s				! 				
	l Valid.	Legal	Comm	ands] 3-1-01-01	3-0-0-00	l Ics	 3-0-01-00	3.0.0.00	l cs	
	A: (908/	0/	0)	4-0-01-01		NR	4-0-01-01		NR	
	В:(908/	0/	G)	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		cs	
	Unlid	Tllog	al Ca					 			
	valid,	Illega			3.1-01-01	:	CS	: :	3-0-0-00	,	
	B: (52/ 52/	0/ 0/	0) 0)	4.0.01-01	¦	NR ME	4.0 01.01		NR	
		32/	O ₇	0)	3-1-26-01	}	ME	3-1-26-01	3 · 4 · 0 · 00	ME	
		1 0	,]	[
	-	d Comm			:	3-0-0-00	CS	3-0 01-00		CS	
	A: (30720/	0/	0)	2-0-01-00	;	NR	2-0:01:00		NR	
	B:(30720/	0/	0)	3-1-00-18	1	NR CS	3-1-00-18	3-0-0-00	NR CS	
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	-	Mode C			i	3-0-0-00	1	3.0 01-00		CS	
	A: (14/	0/	0)	4-0-01-00	i i	NR	4-0.01.00		NR	
	B: (14/	0/	0)	:	3-0-0-00	CS CS	3-1-00-01		CS	
	1 112000	l Mode	Comm	on da			lac				
	A:(l Mode 2/	o/	anas 0)	3-1-01-01	!	NR	; ;	3-0-0-00	CS NR	
	B: (2/	0/	0)	4.0.01-00		:	4.0-01-00 3 1.00-00	3-4-0-00	ME	
		2/	ъ,	u)	3-1-00-18	-	ME	3-1-00-18	3-4-0-00	ME	
	 Undefi	.ned Mo	de Co	mmands	3-1-01-05	 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	3-0-0-00	NR	
	В: (40/	0/	0)	!	3-4-0-00	:	3-1-00-09		- !	
	ļ				3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4 0 00	ME	
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eference	Test De	aarin	tion		ВТ	IS A	'	BUSB			
Section	Bus: (rum o	_		cnt)	Command		STAT	Command	Response	STA'	
5.2.1.1 5.2.1.1.2	Response to RT-RT Res Command Broadca Comma	ponse l Word ast Re	to s								
	 Valid,	Legal	Comm	ande	3-1-01-01	3 0 0 00	cs cs	 3 0.01-00	3 0 0 00	l ce	
	Valid,	907/	0/	0)	31-0-01-01		NR	31-0-01-00	3-0-0-00	NR	
	B:(907/	0/	0)	:	0-0-0-00	!	0-1-01-01		lcs	
	2.1	5077	c,	٠,	1 1	3-0-0-16	:	3-1-00-18		BC	
						., 0 0 ,0		3 1 00 13	3 0 0 10		
	 Valid,	Illeg	al Co	mmands	3-1-01-01	3-0-0-00	 CS	3-0-01-00	3-0-0-00	 CS	
	A: (53/	0/	0)	31-0-25-01		NR	31-0-25-01		NR	
	B: (53/	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	MB:	
	 Invalid	i Comm	ands				N/A N/A N/A N/A			N N N	
	Legal N	Mode C	omman	ds	3-1-01-01	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)	:	0-0-0-00 3-0-0-16	CS BCR	0-1-01 01 3-1-00-18		CS	
	Illega:				3-1-01-01		CS	3-0-01-00	3-0-0 00	CS	
	Aı (4/	0/	0)	31-0-00-20	! !	NR LCC	31-0-00-20		NR	
	S: (4/	0/	0)	0-1-01-01	! !	CS MBR	0-1-01-01 3-1-00-18		CS	
		_					 	<u> </u>		<u> </u>	
	Undefi				3-1-01-01	<u>.</u>	CS	3-0-01-00		CS	
	A: (58/	0/	0)	31-0-00-00	1	NR	31-0-00:00		NR	
	B: (58/	0/	0)	0-1-01-00	:	:	0-1-0100		CS	
	1				3-1-00-18	3-4-0-16 	MBR	3-1-00-18	3-4-0-16	ME	
					<u> </u>			<u> </u>	<u> </u>		
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	IS, Inc. MIL-STD-1553B RT VAL IE SYSTEMS, Inc.	ATION TE	ST REP		E 11/14/13	3VL24.D	
	Disting, IIIc.				II./ 1.4/ 13	, (13:1	4:14
Reference	Test Description	BUSA			вт	S B	
Section	Bus: (run cnt/ errors/ busy cnt)	Command	Response	STAT	Command	Response	STA:
5.2.1.1 5.2.1.1.2	Response to Command Words RT-RT Response to Command Words Broadcast Transmit Commands						
	Valid, Legal Commands			N/A N/A N/A N/A	<u> </u>		N/. N/. N/. N/.
	Valid, Illegal Commands A: (960/ 0/ 0) B: (960/ 0/ 0)	0-0-01-01 31-1-01-01		 CS NR NR MBR	0-9-01-01	3-0-0-00 3-4-0-16	CS NR NR NR MBR
	Invalid Commands			N/A N/A N/A N/A			 N/ N/ N/
	Legal Mode Commands	3-1-01-01	 3-0 0-00	 CS	3-0-01-00	3-0-0-00	100
	A: (6/ 0/ 0)	0-0-01-00	! !	NR	0-0-01-00		NR
	B:(6/ 0/ C)	31-1-00-01 3-1-00-18	 3-0-0-16	NR BCR	31-1-00-01 3-1-00-18	 3 0-0-16	NR BCF
	Illegal Mode Commands	3-1-01-01	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
	5:(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	MBI
	Undefined Mode Commands	3-1-01-01	3-0-0-00	cs	3-0-01-00	3-0-0 cc	cs
	A: (40/ 0/ 0)	0-0-01-00		NR	0-0-01-00	:	NR
	B: (40/ 0/ 0)	31-1-00-09	j ·	NR	31-1-00-09		NR
	!	3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16 	MB1
				<u> </u>			
SUBTITLE: 5.2.1.	Required Protocol Tests 1. Response to Command Word		ATE: IME:		v 2013 4:50	Page:	I

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVL24.DAT Ву: TEST SYSTEMS, Inc. 11/14/13 (15:14:14) Reference Test Description BUS BUSB Section Command | Response | STAT Bus: (run cnt/ errors/ busy cnt) 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 lcs A: (1000/ n/ 3-0-01-01 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS B: (1000/ 0/ UUT-BC Transfer 3-1-02-00 | 3-0-0-00 | CS 3-1-02-00 3-0-0-00 CS A: (1000/ 3-0-01-01 3-0-0-00 CS 3-0-01-00 CS 3-0-0-00 3:(1000/ 0/ UUT/RT Transfer 3-0-21-00 3-0-0-00 CS 3-0-21-00 3-0-0-00 CS A: (10007 0/ 4-1-01-00 4-0-0-00 CS 4-1-01-00 4-0-0-00 CS 0) 1000/ 3-0-01-01 3-0-0-00 CS lcs B: (0/ 3-0-01-00 3-0-0-00 RT/UUT Transfer DC 25-0-01-00 25-0-0-00 4-0-01-00 4-0-0-00 DC CS A. C 1000/ 0/ 0) 3-1-24-00 3-0-0-00 3-1 24-00 3-0-0-00 CS B: (1000/ 0/ 3 0 - 01 - 01 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 3-1-00-02 3-0 0-00 CS 1000/ CS A: (3-0-01-01 3-0-0-00 CS 0) 3-0-01-00 3-0-0-00 B: (1000/ Mode Command, 3-1-00-16 3-0-0 00 CS 3-1-00-16 3-0 0 00 CS Transmit w/Data 3-0-01-01 3-0-0-00 lcs 3-0-01-00 3-0 0 00 CS A: (1000/ 0/ B: (1000/ a/ Mode Command, 3-0-00-17 3-0-0-00 CS 3-0-00-17 3-0-0-00 CS Receive w/Data 3-0-01-01 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS A: (1000/ 1000/ B; (0/ Broadcast BC-UUT 31-0-00-00 NR 31-0-00-00 NR Ar (cs 1000/ o/ 3-0-01-01 3-0-0-00 CS ο١ 3-0-01-00 3-0-0-00 B: (1000/ 0/ Broadcast RT/UUT 31-0-01-30 - - -NR NR 31-0-01-30 - - -A: (1000/ 3-1-30-30 3-0-0-00 CS 0/ 3-1-30-30 3-0-0-00 cs CS B: (1000/ 0/ a) 3-0-01-01 3-0-0-00 3-0-01-00 3-0-0 00 CS Broadcast UUT/RT 31-0-00-17 NR 31-0-00-17 NR CS A: (1000/ 0/ 0-1-01-01 0-0-0 00 CS 0-1-01-01 0 0.0 00 0) B: (1000/ 0/ 0) 3-0-01-01 3-0-0-00 CS 3-0-01-00 3.0 0.00 CS Broadcast Mode Cmnd 31-1-00-01 NR 31-1-00-01 NR w/o data 3-0-01-01 3-0-0-00 CS 3-0-01-00 3-0-0:00 CS A: (1000/ 0/ 0) B: (1000/ 0/ D) Broadcast Mode Cmnd 31-0-00-17 NR 31-0-00-17 l NR w/data 3-0-01-01 3-0 0-00 CS 3-0-03-00 3 0-0-00 CS A: (1000/ 0/ 0) B: (1000/ 0/ 0) ||SUBTITLE: Required Protocol Tests DATE: 14 Nov 2013 Page: 5.2.1.2. Intermessage Gap TIME: 17:14:50 15 of 26

				i		4:14)		
Reference	Test Description	BUSA			BUSB			
Section	Bus: (rum cnt/ errors/ busy cnt)	Command	Response	STAT	Command	Response	STA:	
5.2.1.2	Intermessage Gap						1	
5.2.1.2.2	Transmission Rate				 		 	
	Transmit-Transmit	3 -1 - 06 - 00	3-0-0-00	l cs	3-1-01-00	3 -0-0-00	cs	
i	A: (19338/ 0/ 0)	3 1 07-00		cs	3-1-01-00	3-0-0-00	cs	
İ	B: (19352/ 0/ 0)	3-1-06-00		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	
Ì	Busy (usec)	İ	0		į į	0		
	Receive-Receive	3-0-10-00	3-0-0-00	CS	3-0-10-00	3-0-0-00] CS	
	A: (19320/ 0/ 0)	3-0-11-00	3-0-0-00	CS	3-0-11-00	3-0-0-00	CS	
	B:(19348/ 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	les	
	A:(19330/ 0/ 0)	:		CS	3-0-21-00		cs	
	B:(19326/ 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 I	 !		0 I		
5.2.1.3	Error Injection	į			İ			
5.2.1.3.1	Parity			 				
5.2.1.3.1.1	Transmit Command	3-0-01-01	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	3-0-01-01	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	3-0-01-01	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	
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Reference	Test Description			ВТ	JS A		ВТ	JS B		
Section	Pus: (run c	_		ent)	Command	Response	STAT		Response	STAT
·····										+
5.2.1.3.2	Word Leng Transmi									
5.2.1.3.2.1				- \	3-0-01-01		CS	3-0-01-00		:
1	A: (2/	0/	0)	3 - 1 - 06 - 00		NR CS	3-1-06-00		NR
i	B: (2/	0/	0)	3 - 1 - 00 - 02	3-0-0-00	108	3-1-00-02	3 0-0-00]CS
5.2.1.3.2.2	Receive	Comm	and							
	Short R	eceiv	e com	mands	3-0-01-01	3-0-0-00	CS	3-0-01-00	3-0-0-00	cs
ĺ	A: (2/	0/	0)	3-0-05-00		NR	3-0-05-00		NR
ļ	B: (2/	0/	0)	3-1-00-02	3-0-0-00	CS	3 - 1 - 00 - 02	3-0-0-00	CS
<u> </u>	Long F	Receiv	e com	mande	3-0-01.01	3-0-0-00	lcs	3-0-01-00	3.0.0-00	l Ics
	A: (2/	0/	0)	3-0-05-00		NR	3-0-05-00		NR
i 	B: (2/	0/	0)	3 1 -00 -02		ME	3-1-00-02		ME
	2.,	2,	5/	0,	1 1.00-02	3-1-0-00		3-1-00-02	3-4-0-00	1
5.2.1.3.2.3	Receive	Data	Word	s	3-0-01-01	3-0-0-00	cs	3-0-01-00	3-0-0-00	cs
j	A: (126/	0/	0)	3-0-05-00		NR	3 0-05-00	:	NR
	В: (126/	0/	0)	3-1-00-02	3-4-0-00	ME	: :	3-4-0-00	ME
		_ ,					!	!		
5.2.1.3.3 5.2.1.3.3.1	Bi-Phase							ļ ļ		
	Transmi				3-0-01-01		CS	3-0-01-00	}	
	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	3100-02	3-0-0-00 	CS
5.2.1.3.3.2	Receive	e Comm	and		3-0-01-01	3-0-0-00	cs	3.0.01-00	 3-0-0-00	cs
1	A: (34/	0/	0)	3-0-05-00		NR	3-0-05 00		NR
į	В: (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	Mond	le.	1		lac			
C. C. T. 3. 3. 3	Receive A:(1088/			1	3-0-0-00	CS NR	:	3-0-0-00	!
		•	0/ 0/	0) 0)	3-0-05-00	:	:	3 0-05-00	!	NR
	В: (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 Enco	oding			j		İ		! 	
5.2.1.3.4.1	Transmi	lt Com	mand		3-0-01-01	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/	C)	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	e Comm	and		3-0-01-01	3-0-0-00	 CS	3.0.01.00	3-0-0-00	cs
	A: (5/ 5/	0/	0)	3-0-05-00	!	NR	3-0 05-00	1	NR
	в: (5/	0/	0)	:	3-0-0-00	CS	į.	3-0-0-00	- !
					i		į			
5.2.1.3.4.3	Receive	e Data	Word	ls	3-0 01-01	3-0-0-00	CS	30-01-00	3-0-0-00	CS
į	A: (160/	0/	0)	3 0 05-00	j	NR	3-0 05-00		NR
į	B: (160/	0/	0)	3 -1 -0002	3-4-0-00	ME	3-1-00 02	3-4-0-00	:
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	EMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT T SYSTEMS, Inc.					BVL24.DAT 11/14/13 (15:14:14)			
By: TEST S	SYSTEMS, Inc.					11/14/13	(15:1	4:14)	
Reference	Test Descripti	on	Вт	JS A		ј вт	вв		
Section	Bus: (nun cnt/ errors/	busy cnt)	Command	Response	STAT	Command	Response	STA	
	_								
5.2.1.3.5	Message Length	a							
5.2.1.3.5.1	Transmit Comma	na	3-0-01-01		CS	3-0-01-00		CS	
			3-1-06-00		NR	3-1-06-00	<u> </u>	NR	
			3-1-00-02	3 -4 -0 -00	ME I	3-1-00-02	3 - 4 - 0 00	ME	
5.2.1.3.5.2	Receive Comman	d	3-0-01-01	3-0 0 00	l cs	3-0-01-00	3-0-0-00	ics.	
		0/ 0)	3-0-05-00		NR	3-0-05-00		NR	
		0/ 0)	3-1-00-02		ME	3-1-00-02	3-4-0-00	ME	
	2.1	0,	1 3 1 00 02	14000		3-1-00-02	3-4-0-00		
5.2.1.3.5.3	Receive Mode C	ommand	3-0-01-01	3-0-0-00	CS	3-0-01-00	3 -0- 0- 00	CS	
	A: (2/	0/ 0)	3-0-00-17		NR	3-0-00-17		NR	
	B: (2/	0/ 0)	3-1-00-02	3 -4 -0 -00	ME	3-1-00-02	3-4 0 00	ME	
								ļ	
	Transmit Mode	Command	3-0-01-01	3-0-0-00	CS	3-0-01-00	3 -0 - 0 - 00	CS	
	A: (1/	0/ 0)	3-100-01		NR	3-1-00-01		NR	
	B: (1/	0/ 0)	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 Cou	nt Error	3-0-01-00	3-0-0-00	 CS	1 2 2 2 2 2 2	2 0 - 40		
F.C.1.3.1.	A: (2/	0/ 0)	1	4-0-0-00	CS	3-0-01-00		CS CS	
	B: (2/	0/ 0)	3-0-08-00	:	NR	4-1-01-00 3-0 08-00	4-8-0-00	NR	
	5.(2)	0, 4,	4-1-01-00	;	CS	1	4-0-0-00		
			3-1-00-02	:	ME	3-1-00-02	3 4 -0-00	ME	
			3 1 33 32			3 1 50 (12	3 4 10 100		
5.2.1.3.6	Contiguous Data		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	
5.2.1.3.7	 Terminal Fail-Sa	fe		<u> </u>					
5.2.1.4	Superseding Comman	. A a		ļ					
5.2.1.4	part A	ias	3-0-01-00	 	NR	3-0-01-00	 	NR	
			-	3-0-0-00	cs	:	3-0-0-00	1	
			3-1-00-02	•	cs	3-1-00-02		-	
			İ		İ	i		i	
	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	
			1	3-0-0-00	CS	;	3-0-0-00	1	
			3-1-00-02	3-0-0-00	cs	3-1-00-02	3-0-0:00]CS	
	 part D		7 0 01 00	 	 NR	1 1 0 0" 00	 	2112	
	Parc D		3-0-01-00	1	CS	3-0-01-00	:	NR	
	 		3-1-01-00	1	cs		3.0000	CS	
	<u> </u>		1 3-1-00-02	1 3 0 -0 -00 L	Lo	3-1-00-02	3 -0 -0-00	CS	
SUBTITLE:	Required Protocol T	Cests	D	ATE:	14 No	ov 2013	Page:		
	.5. Message Length		!	IME:	17:3			£ 26	

	S, Inc. MIL-STD-1553B RT VALIDA		BVL24.DAT 11/14/13 (15:14:14)				
By: TEST	SYSTEMS, Inc.				11/14/13	(15:1	4:14;
Reference	Test Description	в	US A		Вυ	я в	
Section	Bus: (run cmt/ errors/ busy cmt)	Command	Response	STAT	Command	Response	STAT
5.2.1.5	Required Mode Commands				į į		ĺ
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	1	cs	3-1-00-02	3-0-0-00	CS
		3-0-01-00		NR	3-0-01-00		NR
		3-1-00-02		ME	3-1-00-02	3-4-0-00	ME
		3-1-00-02	:	ME	3-1-00-02	3-4-0-00	ME
		3-1-00-02	:	ME	3-1-00 02	3 -4 - 0 - 00	ME
		3-0-01-00	}	CS	3-0-01-00	3.0.0 00	CS
		3-1-00-02	1	CS	3-1-00-02	3-0-0-00	CS
		3-1-00-02	30.0 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	l CS	 3-0-01-00	 3-0-0-00	les
	At (4/ 0/ 0)	3-0-01-00	į.	CS	3-0-01-00	3-0-0-00	cs
	5:(4/ 0/ 0)	3-1-00-04	;	CS	3-1-00-04	3-0-0-00	cs
		3-0-01-00		NR	3-0-01-00		NR
		3-0-01-00	;	CS	3-0-01-00	! !	CS
		3-1-00-05		NR	3-1-00-05	ľ	NR
		3-0-01-00		NR	3-0-01-00	:	NR
	j	3-1-00-05	3 - 0 - 0 - 00	CS	3-1-00-05	3.0000	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	ĺ	Ì	İ	İ	j	İ
	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		 3-0-0-00	 CS]	 	l cs
5.2.1.0	A: (10000/ 0/ 0)	!	3-0-0-00	CS	1	3-0-0-00	1
	B: (10000/ 0/ 0)	3-1-30-00) 3-0-0-00	C5	3 1-30-00	3-0-0-00	102
5.2.1.7	RT-RT Timeout Delay	l l		l I	l I	[1
5.2.1.7	Time to first NR	 3-0-01-00	 	NR	3.0 01.00	! 	l NR
	IIMe CO IIISC WK	:	 4-0-0-00	CS	:	4-9-0-00	
	! 	1	3-4-0-00	ME	1	3-4-0-00	!
	(54us ≤ T ≤ 60us)	3 1-00-02	57.5	!	3 1 00-02	57.5	!
	Time to first CS	3-0-01-00	3-0-0-00	cs	3-0-01-05	3-0 0-00	!
		1	4 0 0 00	!		4-0-0 00	
		!	3.0000			3-0-0-00	•
	(54us ≤ T ≤ 60us)		57.0	:		57.0	
		<u> </u>	ŀ	i	<u>i</u>	-	<u> </u>
SUBTITLE:	Required Protocol Tests	ם	ATE:	14 No	ov 2013	Page:	
5.2.1.	_	T	'IME:		14:50		of 26

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y: TEST	SYSTEMS, Inc.				11/14/13	(
eference	Test Description	BUSA			BU	IS B	
Section	Bus: (run cot/ errors/ busy cot)	Command	Response	STAT	Command	Response	STA
.2.1.8	Bus Switching	 			 		
	RT Transmitting] 	 		
	Valid, Legal Command	3-1-02-00		NR	l 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 I	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	2000	 cs
	A: (10945/ 0/ 0)	3-1-02-00		NR	3-1-02-00		NR
	B: (10945/ 0/ 0)	3 · 1 - 00 - 02		!	3-1-00-02		CS
	Command to such as DE						
	Command to another RT A: (10945/ 0/ 0)	4-1-05-00	3 · 0 · 0 - 00	CS NR	; ;	3-0-0-00	1
	B: (10945/ 0/ 0)	-	3-0-0-00	CS	4-1-05-00 3-2-00-02	 30-0-00	NR CS
	21, 2032, 0, 0,		3 0 0 00		3-1-00-02	30-0-00	
	RT Receiving						
	Valid, Legal Command	3-0-01-00		NR	3-0-01-00		NR
	A: (11649/ 0/ 0)	4-1-05-00		CS Lac	1	4 0.0-00	CS
	B: (1.1649/ 0/ 0)	3-1-00-02	3-0-0-00	CS CS	3-1-05-00	3-0-0-00	CS CS
	Command w/Parity Error	 3-0-01-03		00	 		
	A: (11649/ 0/ 0)	4-1-05-00		cs cs		3-0-0-00 4-0-0-00	!
	B: (11649/ 0/ 0)	3-1-05-00		NR	3-1-05-00		NR
		-	3-0-0-00	CS	3-1 00-02		cs
	Command to another RT	3_0_01_00	3-0-0-00	 CS	3 0 01 03	3-0-0-00	 cs
	A: (11649/ 0/ 0)	- :	4-0-0-00	1	:	4 0-0-00	! '
	B: (11649/ 0/ 0)	4-1-05-00		NR	4-1-05-00		NR
		3-1-00-02	3-0-0-00	cs I	3-1-00-02	3 -00-00	CS
					<u> </u>		
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			 			<u> </u>	
UBTITLE:	Required Protocol Tests	i n	ATE:	14 No	v 2013	Page:	1

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Description Description		ST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT: TEST SYSTEMS, Inc.					BVL24.DAT 11/14/13 (15:14:14			
Section	Reference	Test Description	BILS A							
Dart A	Section	-	_		STAT	!		STA		
Dart A					1					
UUT Adr 0	5.2.1.9	1	<u> </u>							
UUT Adr 1 UUT Adr 2 UUT Adr 3 3-0-05-00 1-0-0-00 CS 1-0-05-00 1 0-0-00 CS UUT Adr 3 3-0-05-00 3-0-0-00 CS 2-0-05-00 2-0-0-00 CS UUT Adr 4 4-0-05-00 3-0-0-00 CS 3-0-05-00 2-0-0-00 CS UUT Adr 5 5-0-05-00 5-0-0-00 CS 5 0 05-00 3-0-0-00 CS UUT Adr 6 0-05-00 5-0-0-00 CS 5 0 05-00 3-0-0-00 CS UUT Adr 7 7-0-05-00 7-0-0-00 CS 5 0 05-00 3-0-0-00 CS UUT Adr 8 8-0-05-00 8-0-0-00 CS 7 0 03-00 7-0-0-00 CS UUT Adr 9 9-0-05-00 9-0-0-00 CS 9-0-05-00 8-0-0-00 CS UUT Adr 10 (0A) 10-0-05-00 10-0-0-00 CS 9-0-05-00 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 11-0-05-00 11-0-0-00 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 13-0-05-00 13-0-0-00 CS UUT Adr 15 (0F) 15-0-05-00 13-0-0-00 CS 13-0-05-00 13-0-0-00 CS UUT Adr 16 (10) 16-0-05-00 18-0-0-00 CS 13-0-05-00 13-0-0-00 CS UUT Adr 17 (11) 17-0-05-00 18-0-0-00 CS 13-0-05-00 13-0-0-00 CS UUT Adr 19 (13) 19-0-05-00 18-0-0-00 CS 13-0-05-00 13-0-0-00 CS UUT Adr 20 (144) 20-05-00 13-0-0-00 CS 13-0-05-00 13-0-0-00 CS UUT Adr 21 (15) 21-0-05-00 23-0-0-00 CS 23-0-05-00 23-0-0-00 CS UUT Adr 22 (166) 22-0-05-00 23-0-0-00 CS 23-0-05-00 23-0-0-00 CS UUT Adr 24 (18) 24-0-05-00 23-0-0-00 CS 23-0-05-00 23-0-0-00 CS UUT Adr 27 (1B) 27-0-05-00 23-0-0-00 CS 23-0-05-00 23-0-0-00 CS UUT Adr 28 (1C) 28-0-05-00 23-0-0-00 CS 23-0-05-00 23-0-0-00 CS UUT Adr 29 (1D) 23-0-05-00 23-0-0-00 CS 23-0-05-00 23-0-0-00 CS UUT Adr 29 (1D) 23-0-05-00 23-0-0-00 CS 23-0-05-00 23-0-0-00 CS UUT Adr 29 (1D) 23-0-05-00 23-0-0-00 CS 23-0-05-00 23-0-0-00 CS UUT Adr 29 (1D) 23-0-05-00 23-0-0-00 CS 23-0-05-00 23-0-0-00 CS UUT Adr 29 (1D) 2		_								
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TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVL24.DAT By: TEST SYSTEMS, Inc. 11/14/13 (15:14:14) Reference Test Description BUSA BUSB Section Command | Response | STAT Bus: (rum cnt/ errors/ busy cnt) 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/ B: (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/ o) 5.2.2.1.2.2 Synchronize with data 3 0-00-17 3-0-0-00 CS 3-9-00-17 3-0-0 00 CS A.f 2/ $\Omega /$ n) В: (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 3-1-01-00 3-0-0-00 CS A: (1964/ 3-1-01-00 3-0-0-00 CS 07 0) 1964/ $(T \le 100,000us)$ 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 At (2/ 0/ 0) 3:1 2/ 0/ BIT Word 024d 824d 15.2.2.1.5 Selective Xmtr Shutdown 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 1cs 0) 3-0-02-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS 4/ 07 B: (0) 3 - 0 - 00 - 20 | 3 - 4 - 0 - 00 ME 3-0-00-20 3-4-0-00 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 3-0-01.00 3.0-0-00 CS 3-0-00-20 3-4-0-00 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: (3-1-01-01 3-0-0-01 DC 3-1-01-01 3-0-0-01 DC В: (0) 3-0-01-00 3.0.0-01 TF 3-0-01-00 3-0 0 01 TF 4/ 07 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 ||SUBTITLE: Optional Protocol Tests DATE: 14 Nov 2013 Page: TIME: 5.2.2.1. Optional Protocol 17:14:50 22 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVL24.DAT TEST SYSTEMS, Inc. 11/14/13 (15:14:14) Reference Test Description BUSA BUSB Section Bus: (run cnt/ errors/ busy cnt) Command Response STAT Command | Response | STAT 5.2,2.1.7 Transmit Vector Word 3-1-00-16 3-0-0-00 CS 3-1-00-16 3-0-0-00 C\$ A: (B: (0/ 0) VECTOR Word 00001 00001 5.2.2.1.8 Transmit Last Command 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS 2/ 0/ 3-0-01-01 - · · NR 3-0-01-01 - - -A: (INR 3-1-00-18 3-4-0-00 ME 3-1-00-18 3-4-0-00 ME B: (2/ 0/ 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 15.2.2.2.1 | 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 INR 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 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 0 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 3-1-03-01 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 14 Nov 2013 | Page: SUBTITLE: Optional Protocol Tests DATE: TIME: 5.2.2.1.7. Transmit Vector Word 17:14:50 23 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVL24.DAT TEST SYSTEMS, Inc. By: 11/14/13 (15:14:14) Reference Test Description BUSA BUSB Section Bus: (run cnt/ errors/ busy cnt) 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 - - l NR 3 -0-25-00 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 NR 3-0-25-00 - - -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 NR 3-0-25-00 - - -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 Synchronize without data 15.2.2.4.1 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS A: (2/ 0/ 0) 31-1-00-01 NR 31-1-00-01 - · · B:(2/ 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 3-0-01-00 3-0-0-00 CS CS A: (0/ 31-0-00-17 - - -NR 31-0-00-17 - -2/ NR Br (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 Initiate Self-Test 5.2.2.4.3 31-1-00-03 . . . NR 31-1-00-03 NR . . 3-1-01-00 3-0-0-00 CS A: (1968/ 0) 3-1-01-00 3 0-0-00 CS B: (1968/ 0/ 0) $(T \le 100,000us)$ 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 A: (4/ 07 3-0-01-00 3-0-0-00 CS 0) B:(4/ 0/ 31-1-00-04 - -NR 31-1-00-04 - - NR 3-1-00-18 3-0-0-16 BCR 3-1-00-18 3 0 G-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 CS 31-1-00-05 - - -NR 31-1-00-05 - -NR 3-0-01-00 - - -NR 3-0-01-00 NR 31-1-00-05 - - -NR 31-1-00-05 - - -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 SUBTITLE: Optional Protocol Tests DATE: 14 Nov 2013 Page: 5.2.2.3. Illegal Command TIME: 17:14:50 24 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVL24.DAT TEST SYSTEMS, Inc. 11/14/13 (15:14:14) By: Reference Test Description BUS A BUS B Command | Response | STAT | Section Bus: (run cnt/ errors/ busy cnt) Command Response STAT 15.2.2.4.5 Selective Xmtr Shutdown 3-0-01-00 3-0-0-00 CS 3-0-01-00 3.0.0 00 CS 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS A : (4/ B: (31. 0.00 20 NR4/ 0/ 0) 31-0-00-20 ΝR 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 CS 3-0-01-00 3-0-0:00 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 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 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/ 3-1-01-01 3-0-0-01 DC 3-1-01-01 3-0-0-01 D) I DC B:(4/ 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 3-1-90-18 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 | 3-0-5-17 | 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) NR 07 3-1-01-00 -3-1-01 00 l NR B: (1768/ (T ≤ 5000us) 6 6 Clear Xmtr Shutdown 3-1:00:04 3-0-0-00 CS 3-1-00-04 3-0-0-00 CS A: f 2/ 3-1-01-00 - - -NR 3-1-01 00 - - -INR B: (2/ NR 0/ a) 31-1-00-08 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 l NR B: (2/ ٥١ 3-1 00-02 3-4-0-16 MBR 3-1-00-02 | 3 4 0-16 | MBR 0/ SUBTITLE: Optional Protocol Tests DATE: 14 Nov 2013 | Page: 5.2.2.4.5. Selective Xmtr Shutdown TIME: 17:14:50 25 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVL24.DAT TEST SYSTEMS, Inc. By: 11/14/13 (15:14:14) Reference Test Description BUSA BUS B Section Bus: (run cnt/ errors/ busy cnt) Command Response STAT Command Response STAT 5.2.2.5 Error Injection -Broadcast Messages Parity: BC-RT Broadcast 5.2.2.5.1 [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 NR 31-0-01-01 - - -31-0-01-01 - - -NR A: (32/ 0/ 3-1-00-18 3-0-0-16 BCR 3-1-00-18 3-0-0-16 BCR 01 B: (32/ 0/ 0) 3-0-01-00 3-0-0-00 C\$ 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 NR 31-0-01-01 - - -31-0-01 01 - - -NR Broadcast 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 - - -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 3-0-0-00 CS 3-0-30-00 3-0-0-00 CS Words Received 44,000,022 PASS 44,000,022 PASS Noise Level used (mV) 170 170 A: (1333334/ 0/ 0) B:(1333334/ 0/ SUBTITLE: Optional Protocol Tests 14 Nov 2013 | Page: DATE: 5.2.2.5. Error Injection TIME: 17:14:50 26 of 26