TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT By: TEST SYSTEMS, Inc.	BVH12.DAT
CUSTOMER:	TEST STARTED:
Microsemi SOC Corp.  3870 N. First Street	Nov. 11, 2013
San Jose, CA 95134	TEST COMPLETED:
	Nov. 11, 2013
	1    1

### UNIT UNDER TEST IDENTIFICATION:

CORE1553BRT v4.0.004 running VHDL at 12 MHz (BVH12)
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	Ï
Required Protocol:	Passed	Passed	Ï
Optional Protocol:	Passed	Passed	Ï
Noise Rejection:	Passed	Passed	Ï
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# 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 11, 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.

Leroy Earhart Date

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

| SUBTITLE: Test Summary | DATE: 12 Nov 2013 | Page: | TIME: 15:43:34 | 1 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH12.DAT By: TEST SYSTEMS, Inc. 11/12/13 (13:42:44)

## 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 within 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.

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TEST	SYSTEMS,	Inc.	MIL-STD-1553	B RI	VALIDATION	TEST	REPORT	Bt.	H12.DAT	
By:	TEST SY	STEMS	, Inc.					11/12/13	(13:42:44)	Ï
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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 Barhart Eugene O'Rourke TSI Microsemi

## EQUIPMENT LIST:

	MANUFACTURER	CALIBRATION
EQUIPMENT TYPE	MODEL NO./SERIAL NO.	Date Done   Date Due
		į
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	
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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į	SUBTITLE:	DATE:	12 Nov 2013	Page:	
		TIME:	15:43:34	3 of 26	Ï

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH12.DAT TEST SYSTEMS, Inc. **|**11/12/13 (13:42:44) Valid, Legal Non-Broadcast Commands (if not marked by '-') Receive (T/R=0) Word Count Field Transmit (T/R=1) Word Count Field 111111111122222222233 11111111122222222233 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 01234567890123456789012345678901 26 01234567890123456789012345678901 26 ------27 01234567890-----27 ----567890123456-----28 01234567890123456789012345678901 28 01234567890123456789012345678901 29 01234567890123456789012345678901 29 01234567890123456789012345678901 30 01234567890123456789012345678901 30 01234567890123456789012345678901 31 -----7----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: 12 Nov 2013 | Page: Non-Broadcast Commands TIME: 15:43:34 4 of 26

TEST	SYSTEMS, Inc. MIL-ST TEST SYSTEMS, Inc.	FD-1553B RT V	ALIDATION	TEST F	REPORT	1	VH12.DAT (13:42:44)
Va	lid, Legal Broadcast	Commands (if	not mar	ked by	'-')		
   	Receive (T/R=0) Word	Count Field	Tra	ansmit	(T/R=1)	Word Co	unt Field
!   	111111111 01234567890123456789	22222222233	CIT. O.	1224565			22222223 345678901
SA 	01234307090123450709	012343676301		123430	70901234	±50/09U1Z	345678901
0			0 -1	1-34567	78 <b></b>		
1	01234567890123456789	012345678901	1		<b></b>		
2	01234567890123456789	012345678901	2			<b></b>	
3	01234567890123456789	012345678901	3			<b></b>	
4	01234567890123456789	012345678901	4			<b></b>	
5	01234567890123456789	012345678901	5 -				
6	01234567890123456789	012345678901	6 -				
7	01234567890123456789	012345678901	7				<b>-</b>
8	01234567890123456789		8 -				
1	01234567890123456789		9 -		<b></b>		
	01234567890123456789		10 -			<b>-</b>	
	01234567890123456789		11	<b>-</b>			
12	01234567890123456789		12 -				
13	01234567890123456789		13 -				
1	01234567890123456789		14 -				
!	01234567890123456789	·				<b>-</b>	
!	01234567890123456789					<b></b>	
17	01234567890123456789			<b></b>			
1	01234567890123456789		18 -				
:	01234567890123456789		19 -				
	01234567890123456789		20 -			<b></b>	
:	01234567890123456789		21 -				
22	01234567890123456789 01234567890123456789		22 -			<b>-</b>	
!	01234567890123456789		23 -			<b>-</b>	
25	0123456/850123456/85	0123456/89UI	24 25			<b></b>	
	01234567890123456789	0.12345679901					
1	01234567890						
1	01234567890123456789						
!!	01234567890123456789						
11.	01234567890123456789						
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Tes	st STAT abbreviation	definitions:					
ABI	RT: Test Aborted	BCR: Broadca	ast Recei	ved   1	BRTF: B	rdest Rev	d+TermFlag
BUS	SY: Busy Bit	CS: Clear S		į			ıs Accepted
1	DC: Don't Care	EF: Error 1	Found	į :			Inhibited
IM	L: Invalid Test	MBR: Msg Er	r+Brdcst			E+TF+BCR	
1	ME: Message Error	MTF: MsgErr	+TermFlag	·	NR: N	o Respons	se
NRı	ın: Not Run	RIF: Respond		ĺ	SF: S	ubsystem	Flag
	SR: Service Request	TF: Termina	al Flag	j	TO: T	imed Out	
7	/R: Valid Response						
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ll Pone:	<b>[ITLE:</b> Configuration Broadcast Commands	ı used		DATE:		ov 2013	Page:
II	broadcast Commands			TIME:	⊥5:	43:34	5 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH12.DAT TEST SYSTEMS, Inc. By: 11/12/13 (13:42:44) Ref. Section Test Description Limits Units BUS A BUS ( Xformr Coupled ) Meas. | STAT | Meas. | STAT | OUTPUT CHARACTERISTICS 5,1.1 ||5.1.1.1 OUTPUT AMPLITUDE Max 18.0-27.0 Vpp 19.81 | Pass | 19.88 Pass Min 18.0-27.0 19.56 | Pass | Vpp 19.56 Pass ||5.1.1.2 OUTPUT RISE TIME-Sync 100- 300  $\mathbf{D}\mathbf{S}$ 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- 300 204 Pass 195 បាន Pass **1**5.1.1.2 OUTPUT FALL TIME-Data 100- 300 205 Pass 200 Pass ZERO CROSSING STAB. 5.1.1.3 500ns Tzcp 475- 525 ns 498 Pass 494 Pass 1000ns Tzcp 975-1025 ns 1003 Pass 1004 Pass 1500ns Tzcp 1475-1525 1496 Pass ns 1497 Pass 2000ns Tzcp 1975-2025 1997 |Pass| 1997 ทร Pass 500ns Tzcn 475- 525 ns 502 Pass 496 Pass 1000ns Tzcn |Pass| 1006 975-1025 ns 1005 Pass 1500ns Tzcn 1475-1525 пs 1507 |Pass| 1507 Pass 2000ns Tzcn 1975-2025 2005 Pass 2005 Pass ns 5.1.1.4 DISTORTION, OVERSHOOT AND RINGING  $\leq \pm 900$ mVp Pass Pass ||5.1.1*.*5 OUTPUT SYMMETRY (0000) ≤ ± 250 mVp -53 Pass 9 Pass (5555)≤ ± 250 -53 Pass mVp | 10 Pass (7FFF)  $\leq \pm 250$ qVm -31 Pass 20 Pass (8000) $\leq \pm 250$ qVm -39 Pass 13 Pass (AAAA)  $\leq \pm 250$ mVp -46 Pass 11 Pass (FFFF) ≤ ± 250 mVp | -32 | Pass 18 Pass 5.1.1.6 OUTPUT NOISE with power on 14 mVrms Pass |Pass| with power off 14 mVrms Pass Pass 1 7 ||5.1.1.7 OUTPUT ISOLATION 45 db Pass 72 72 Pass Active Bus 18.0-27.0 Vpp 19.81 | Pass | 19.88 | Pass | Inactive Bus qqVm 5 Pass 5 Pass 15.1.1.8.1 POWER ON/OFF NOISE Power Up Amplitude ≤ ± 250 mVp 180 Pass 200 | Pass| Pulse Width us .1 Power Down Amplitude  $\leq \pm 250$ mVp50 Pass 50 |Pass| Pulse Width us .1 . 1 5.1.1.8.2 POWER ON RESPONSE protocol Pass Pass SUBTITLE: Electrical Tests DATE: 12 Nov 2013 Page: 5.1.1 Output Characteristics (XFR) TIME: 15:43:34 6 of 26

	Inc. MIL-STD-1553B RT VAI STEMS, Inc.	JIDAIION II	SOI KEPC		BVH12.DAT 11/12/13 (13:42:4			
Ref. Section	Test Description ( Xformr Coupled )	Limits	Units	B U S Meas.	A STAT	B U S Meas.	B STA	
5.1.1.9	TERMINAL RESPONSE TIME	4 0 10 0		- 10				
	Transmit Receive	4.0-12.0 4.0-12.0	us     us		Pass Pass	6.47	!	
	RT-UUT	4.0-12.0	us		Pass     Pass			
	Mode Command	4.0-12.0	us		Pass		!	
5.1.1.10	FREQUENCY STABILITY Min. Frequency Max. Frequency Avg. Frequency		kHz kHz kHz kHz					
5.1.2 5.1.2.1.1	INPUT CHARACTERISTICS ZERO CROSSING DISTORTION						     	
	Min. Deviation	≤ -150	ns	-177	l  Pass	-177	  Pa:	
	Max. Deviation	≥ 150	ns		Pass	174	Pa	
	Plus 150 nsec	protocol			Pass		Рa	
	Minus 150 nsec	protocol			Pass		Pa	
5.1.2.1.2	AMPLITUDE VARIATIONS				!   !			
	1st CS threshold	200- 860	mVpp	605	Pass	590	Рa	
	1st NR threshold	200- 860	mVpp	605	Pass	590	Pa	
5.1.2.1.3	RISE AND FALL TIME		 		 		 	
5.1.2.1.3.1	TRAPEZOIDAL	protocol			Pass		Pa	
5.1.2.1.3.2	SINUSOIDAL	protocol			Pass		Pa	
5.1.2.2	COMMON MODE REJECTION							
	+10 volt	protocol			Pass		Pa	
	-10 volt   ±10 volt	protocol		  -	Pass		Pa	
	±10 voit	protocol			Pass  		Pa 	
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Ref. Section	Test Description	Limits	Units	BUS	A	виѕ	В
	( Xformr Coupled )			Meas.	STAT	Meas.	
5.1.2.3	  INPUT IMPEDANCE						   
	75 kHz Power ON Phase Angle	≥ 1000	ohms	9999 46	Pass	9999 42	  Pas 
	100 kHz Power ON Phase Angle	   ≥ 1000	ohms  degs	9999 18	]  Pass  	9999 9	  Pas
	250 kHz Power ON Phase Angle	≥ 1000	ohms degs	8155 -62	  Pass  	7435 -66	  Pas 
	500 kHz Power ON Phase Angle	≥ 1000	ohms  degs	3753 -77	  Pass	3432 -79	  Pas 
	1.0 MHz Power ON   Phase Angle	≥ 1000	ohms  degs	1846 -83	Pass	1690 -84	  Pas 
	75 kHz Power OFF Phase Angle	≥ 1000	ohms degs	9999 38	  Pass  		  Pas 
	100 kHz Power OFF Phase Angle	   ≥ 1000	ohms degs	9999 5	  Pass  		  Pas 
	250 kHz Power OFF Phase Angle	   ≥ 1000	ohms degs	7018 -65	Pass		  Pas 
	500 kHz Power OFF Phase Angle	   ≥ 1000	ohms degs	3280 -78	Pass		Pas
	1.0 MHz Power OFF Phase Angle	≥ 1000	ohms  degs	1616   Pass    -84		  Pas   	
			   				]   

	Marata D								S B	
eference Section	Test D			ent)	BU   Command		  STAT	BU Command	S B Response	STA
										-
.2.1.1	  Response to	ords	 		]   	.				
.2.1.1.1	RT Respo				i i					ĺ
	Non-Br				į į		į į			<u> </u>
	Valid,	Legal	Comm	ands	3-0-01-00	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
	표: (	1815/	0/	0)	3-1-00-18	3-0-0-00	CS	3 1 00-18	3-0-0-00	cs
	Valid,	Illeg	al Co	mmands	3-0-01-00	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	3-1-00-7.8	3-4-0-00	ME
		1 0	7		•					
	Invali				: !	3-0-0-00	CS	3-0-01-00		CS
	A: ( B: (	61440/ 61440/	0/	0)	] C-0-00-00    3-1-00-18		NR   CS	0-0-00-00		NR
		61440/	0/	0)	3-1-00-18	3-0-0-00		3-1-00-18	3-0-0 00	CS
	   Legal	Mode C	omman	ds	   3 0.01-00	. 3-0-0-00	lcs	3.0-01-00	3-0-0-00	  cs
	A: (	16/	0/	0)	3-0-00-17		cs	3-0-00-17		cs
	в: (	16/	0/	0)	3-1-00-18	3-0-0-00	CS	3-1-00-18		cs
	Illega				!	3-0-0:00	] CS	3-0-01-00		CS
	A: ( B: (	6/ 6/	0/	0)	3-0-00-20		ME	3-0-00-20		ME
	н: (	6/	0/	0)	3-1-00-18	340-00	ME 	3-1-00 18	3-4-0-00	ME 
	   Undefi	ned Mo	de Co	mmands	3-0-01-00	3-0-0-00	CS	3-0-01-00	30-0-00	  CS
	A: (	98/	0/	0)	300000		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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By: TEST	SYSTEMS, Inc.			11/12/13	(13:4	2:44		
Reference	Test Description	В Ш	s a	BI	BUSB			
Section	Bus: (run cot/ errors/ busy cot)	1 - 7	esponse STA		Response	STA		
5.2.1.1 5.2.1.1.1	Response to Command Words RT Response to Commands Broadcast Commands							
	Valid, Legal Commands A: ( 907/ 0/ 0) B: ( 907/ 0/ 0)	31-0-01-00	6-0-0-00 CS NR 6-0-0-16 BCR	31-0-01-00	3-0-0-00	NR		
	B:( 5077 07 0;	3-1-00-18 3	1-0-0-16   BCR	3-1-00-18	3-0-0-16	BCR 		
	Valid, Illegal Commands As: 1013/ 0/ 0)	3-0-01-00 3 31-0-25-00	3-0-0-00 CS NR	3-0-01-00	3-0-0-00	  CS  NR		
	B: ( 1013/ 0/ 0)	3-1-00-18 3	3-4-0-16   MBR 	3-1-00-18	3-4 0 16	MBR		
	Invalid Commands		N/   N/   N/	A		   N/   N/   N/		
	Legal Mode Commands	3-0-01-00	3-0-0-00 CS	3-0-31-00	3-0-0-00	cs		
	A:( 8/ 0/ 0) B:( 8/ 0/ 0)	31-0-00-17	NR 3-0-0-16 BCR	31-0-00-17	 3-0-0-16	NR  BCF 		
	Illegal Mode Commands	3-0-01-00 3	 3-0-0-00   CS	3-0-01-00	3-0-0-00	cs		
	A: ( 14/ 0/ 0) B: ( 14/ 0/ 0)	31-0-00-20	NR 3-4-0-16 MBR	31-0-00 20 3-1-00-18	   3-4-0-16 	NR MBF		
	Undefined Mode Commands A:( 98/ 0/ 0)	3-0-01-00	 	3-0-01-00 31-0-00-00	3-0 0 00	CS		
	B: ( 98/ 0/ 0)	: :	3-4-0-16   MBR	!	3-4-0-16	MBI		
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SUBTITLE:	Required Protocol Tests	DAT	E: 12 N	ov 2013	  Page:			

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Reference Section	Test Do	-		mt)	B U	S A Response	STAT	B U		STA'	
5.2.1.1 5.2.1.1.2	Response to RT-RT Res Command Non-Bro	sponse d Words padcast	to s								
	Valid,	Legal	Comma	ands	   3-0-01-00	3-0-0-00	l cs	   3-0-01-00	3-0-0-00	l cs	
	A: (	907/	0/	0)	3-0-01-01	3-0-0-00	cs	3-0-01-01	3-0-0-00	cs	
	B: (	907/	0/	0)	4-1-01-01		cs	4-1-01-01	4-0-0-00	CS	
					3-1-00-18	3 -0000	cs	3-1-00-15	3-0-0-00	CS	
	   Valid,	Illega	al Co	mmands	3-0-01-00	3-0-0-00	  cs	3-0-01-00	3-0-0 00	  Cs	
	A: (	53/	0/	0)	3-0-25-01	3-4-0-00	ME	3-0-25-01	3-4-0-00	ME	
	В: (	53/	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	
	   Invali	d Comma	ands		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	
	j 				3-1-00-18	3-0-0-00	cs	3-1-00-18	3 -0 -0-00	cs	
	   Legal	Mode C	omman	ds	3-0-01-00	3-0-0-00	  CS	3-0-01-00	3-0 0-00	j  cs	
	A: (	2/	0/	0)	3-0-00-17	3-0-0-00	CS	3-0-00-17	3 0000	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 	3100-18	3-0-0-00	CS	
	   Illega	l Mode	Comm	ands	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	
	В: (	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	
	Undefi	ned Mo		mmands	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		ME	3-0-00:00		ME	
	B:(	58/	0/	0}	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	
					<u> </u> 		<u> </u>	]			

eference Section	Test D				BUSA			BUSB			
	Bus: (run	cnt/ error		nt)	Command		STAT	Command	Response	STA	
.2.1.1	    Response t	c Commi	d 144	- md -	<b> </b> 						
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		oadcast		nsmit	! I		;			ì	
	Comm	ands								į	
	   Valid,	Legal	Comma	ands	   3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	  CS	
	A: (	908/	0/	0)	4-0-01-01		NR	4-0-01-01		NR	
	B: (	908/	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 -000	cs	3-1-00-18	3-0-0-00	CS	
	1				 					 	
	Valid,	Illeg	al Co	mmands	3-0-01-00	3-0-0-00	CS	3 -0 -01- 00	3-0-0-00	cs	
	A: (	52/	0/	0}	4-0-01-01		NR	4-0-01-01		NR	
	B: (	52/	0/	0)	3-1-26-01		ME	3-1-25-01		ME	
					3-1-00-18	3-4-0-00	ME 	3-1-00-18	3 4 0 00	ME 	
	Invali	d Comm	ands		3-0-01-00	3.0.0.00	cs	   3-0-01-00	70.0.00	  cs	
	A: (	30720/	0/	0)	2-0-01-00		NR	2-0-01-00		NR	
	В: (	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									
	Legar				1	3-0-0-00	CS  NR	3.0.01-00		CS  NR	
	B: (	14/ 14/	0/ 0/	0) 0)	4-0-01-00 3-1-00-01	!	!	4.0-01-00	 3-0-0-00	CS	
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	_	ıl Mode			:	3-0-0-00	CS	3-0-01-00		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 ME	3-1-00-00	3-4-0-00 3-4-0-00	ME	
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	Undefi	ned Mo	de Co	mmands	3-0-01-00	3-0-0-00	cs	3-0-01-00	3-0-0-00	cs	
	Λ: (	40/	0/	0)	4-0-01-00		NR	4-0-01-00		NR	
	B: (	40/	0/	0)	3-1-00-09	:	ME	!	3 4 - 0 - 00	ME	
	1				3 -1 - 06 - 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 BVH12.DAT 11/12/13 (13:42:44) TEST SYSTEMS, Inc. By: Reference Test Description BUS A BUSB Section Bus: (run cnt/ errors/ busy cnt) Command Response STAT Command Response STAT Response to Command Words ||5.2.**1.1** RT-RT Response to 5.2.1,1,2 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 907/ 0/ 0) 31-0-01-01 - - -NR 31-0-01-01 - - -0-1-01-01 0-0-0-00 CS B:( 907/ 0/ 0) 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 31-0-25-01 ... 53/ 0/ 0) NR 31-0-25-01 NR B- ( 53/ 07 o) 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/AN/AN/AN/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: ( 0/ 37.-0-00-17 31-0-00-17 NR 2/ NR 3: ( 2/ 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 31-0-00-20 - - -31-0-00-20 --- NR  $\mathbf{A}:\langle$ 4/ 0/ NR B: ( 4/ 0-1-01-01 0-0-0-00 CS 0/ 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 3-0-03-00 3 0-0-00 CS 58/ 0/ 31-0-00-00 - - -NR 31-0-00-00 - - -B: ( 58/ 0/ 0) 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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SUBTITLE: Required Protocol Tests

Response to Command Words

5.2.1.1.

Description Cont/errors/bus To Command Esponse to and Words Cast Transm mands Legal Com Jegal Com Jegal Com Jegal Com Jegal Com Jegal Com Jegal Com Jegal Com Jegal Com Jegal Com Jegal Commands	y cmt) Words it mands Commands 0) 0)	3-0-01-00 0.0.01 01 31-1-01-01 3-1-00-18	3-0-0-00 	STAT	0-0-01-01 31-1-01-01 3-1-00-18	3-0-0-00	STAT
esponse to nd Words cast Transm nands , Legal Com , Illegal C	mands Commands 0) 0)	0.0.01 01 31-1-01-01		N/A N/A N/A CS NR NR MBR	0-0-01-01 31-1-01-01 3-1-00-18		N/I N/I N/I CS NR NR MBR
, Illegal ( 960/ 0/ 960/ 0/	ommands 0) 0)	0.0.01 01 31-1-01-01		N/A N/A N/A CS NR NR MBR	0-0-01-01 31-1-01-01 3-1-00-18		N/I N/I N/I CS NR NR MBR
960/ 0/ 960/ 0/	o) o)	0.0.01 01 31-1-01-01		NR NR MBR 	0-0-01-01 31-1-01-01 3-1-00-18		NR NR MBR N/I
id Commands	;			1 -			!
				N/A N/A			N/   N/   N/
Mode Comma 6/ 0/ 6/ 0/	nds 0) 0)	3-0-01-00 0-0-01-00 31-1-00-01 3-1-00-18		CS NR NR BCR	0-0-01-00 31-1-00-01	:	CS NR NR NR BCR
al Mode Com 20/ 0/ 10/ 0/	0)			CS NR NR MBR	1		CS NR NR MBR
40/ 0/	0)	0-0-01-00 31-1-00-09		CS NR NR MBR	0-0-01-00		CS NR NR NR MBR
	10/ 0/ ined Mode ( 40/ 0/ 40/ 0/	10/ 0/ 0)  ined Mode Commands  40/ 0/ 0)	10/ 0/ 0) 31-1-00-00 3·1-00-18 ined Mode Commands 3-0-01-00 40/ 0/ 0) 0-0-01-00 40/ 0/ 0) 31-1-00-09 3-1-00-18	10/ 0/ 0)   31-1-00-00	10/ 0/ 0)   31-1-00-00     NR     3 \cdot 1-00-18   3 \cdot 4-0-16   MBR	10/ 0/ 0)	10/ 0/ 0)

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TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH12.DAT TEST SYSTEMS, Inc. 11/12/13 (13:42:44) By: Reference Test Description BUS BUS B Response | STAT Section Command Response STAT Bus: (run cnt/ errors/ busy cnt) Command ||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 CS 3-0-01-00 3-0-0-00 CS 07 3-0-01-00 3-0-0-00 A: ( 10007 0) B: ( 1.000/ 07 UUT-BC Transfer CS CS 3-1-02-00 3-0-0-00 3-3-02-00 3-0-0-00 A: / 1000/ 0/ 3 -0 -01 -00 3 -0 -0 00 CS 3-0-01-00 3-0-0-00 CS B: ( 1000/ 0/ UUT/RT Transfer CS 3-0-21-00 3-0-0-00 3-0-21-00 3-0-0-00 CS CS CS 4-1-01-00 4-0-0-00 4-1-02-00 4 0 0 00 A: ( 1000/ 0/ 0) CS 1000/ 0) 3-0-01-00 3-0-0-00 3-0-01.00 3 0.0 00 CS B: ( 0/ RT/UUT Transfer 25-0-01-00 25-0-0-00 DC 4-0-01-00 4-0-0-00 DC 3-1-24-00 3-0-0-00 CS C\$  $\Lambda_{\tau}$  ( 1000/ 0/ 0) 3-1-24-00 3-0-0-00 1000/ 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS B: ( 0/ 0) Mode Command w/o data 3-1-00-01 3-0 0 00 CS CS 3-1-00-01 3-0-0-00 A: ( 10007 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS B: ( 1000/ O) Mode Command, 3-1-00-16 3-0-0-00 CS 3-1-00-16 3-0-0-00 CS Transmit w/Data lcs CS 3-0-01-00 3-0-0-00 3-0 01-00 3-0-0-00 1000/ B: ( 1000/ 0/ 0) Mode Command, 3-0-00-17 3-0-0-00 CS 3-0-00-17 3-0 0 00 lcs Receive w/Data 3 0 01 00 3.0-0-00 CS cs 3-0-01-00 3-0-0:00 1000/ αZ B- ( 1000/ 0/ Broadcast BC-UUT NR 31-0-00-00 31-0-00-00 NR As f 1000/ 3-0-01-00 3-0-0-00 cs CS 0/ 0) 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: ( 1.000/ 0/ 3-1-30-30 3-0-0-00 CS 3-1-30-30 3 0 0 00 CS 0) CS B: ( 1000/ 0/ 3 0.01.00 3-0-0-00 3-0-01-00 3-0 0 00 CS Broadcast UUT/RT NR 31-0-00-17 31-0-00-17 NR A: ( 10007 0/ 0-1-01-01 0-0-0-00 CS 0 1:01:01 0-0-0-00 CS 0) B:( 1000/ 3-0-01-00 3-0-0-00 CS CS 0/ 3 -0 -01 -00 3-0-0-00 Broadcast Mode Cmnd 31-1-00-01 NR 31 1.00-01 NR w/o data 3-0-01-00 3-0-0-00 l CS 3 0-01-00 3-0-0-00 CS A: ( 1000/ 0/ 1000/ B: ( 0/ 0) Broadcast Mode Cmnd 31-0-00-17 NR 31-0-00-17 NR w/data 3-0-07-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS 1000/ A: ( 0/ 0) B:( 1000/ 0/ SUBTITLE: Required Protocol Tests DATE: 12 Nov 2013 Page: 15 of 26 5.2.1.2. Intermessage Gap TIME: 15:43:34

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TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH12.DAT TEST SYSTEMS, Inc. 11/12/13 (13:42:44) Reference Test Description BUS A BUSB Section Command Response STAT Command Response STAT Bus: (run cnt/ errors/ busy cnt) 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: ( 19312/ 0/ 0) 3-1-07-00 3-0-0-00 CS 3-1-01-00 3 0 0 00 CS B:( 19346/ 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) Receive-Receive 3-0-10-00 3-0-0-00 CS 3 0 -10 -00 | 3-0-0-00 | C\$ A:( 19332/ 0/ 0) 3-0 11-00 3-0-0-00 CS 3-0 11 00 | 3-0-0-00 | CS B: ( 19324/ 0/ 3-0-30-00 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 l Transmit-Receive 3-1-20-00 3-0 0-00 CS 3-1-20-00 3-0-0-00 CS A: ( 19316/ 3-0-21-00 3-0-0-00 CS 3-0-21-00 3-0-0-00 CS B: ( 19312/ 0) 3-1-20-00 3-0-0-00 CS 3-1-20-00 3:0-0-00 CS 0/ 3-0-21-00 3-0-0-00 CS 3-0-21-00 | 3 0-0-00 | CS Busy (usec) 0.1 -o I 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 3-1-05-00 --- NR 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0-0-00 CS 5.2.1.3.1.2 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/ 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: 12 Nov 2013 | Page: TIME: 5.2.1.2. Intermessage Gap 15:43:34 16 of 26

Test Description  Bus: (run cnt/ errors/ busy cnt)	3-0-05-00 3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02	3-0-0-00 3-0-0-00 3-0-0-00 3-0-0-00 3-4-0-00 3-4-0-00	CS NR CS NR CS NR ME CS NR ME	3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-1-00-02	3-0-0-00 3-0-0-00 3-0-0-00 3-0-0-00 3-0-0-00 3-4-0-00 3-4-0-00	CS NR CS NR CS NR ME CS NR
Transmit Command  A:(	3-1-06-00 3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-00-02	3-0-0-00  3-0-0-00  3-0-0-00  3-0-0-00  3-4-0-00  3-0-0-00   3-4-0-00	NR CS NR CS NR CS NR ME CS NR	3-1-06-00 3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-00-02 3-1-00-02 3-1-00-02	3-0-0-00  3-0-0-00  3-0-0-00  3-4-0-00  3-4-0-00  3-4-0-00	CS CS NR ME CS NR ME
Transmit Command  A:(	3-1-06-00 3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-00-02	3-0-0-00  3-0-0-00  3-0-0-00  3-0-0-00  3-4-0-00  3-0-0-00   3-4-0-00	NR CS NR CS NR CS NR ME CS NR	3-1-06-00 3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-00-02 3-1-00-02 3-1-00-02	3-0-0-00  3-0-0-00  3-0-0-00  3-4-0-00  3-4-0-00  3-4-0-00	CS CS NR ME CS NR ME
A:( 2/ 0/ 0) B:( 2/ 0/ 0)  B:( 2/ 0/ 0)  Receive Command  Short Receive commands  A:( 2/ 0/ 0)  B:( 2/ 0/ 0)  Long Receive commands  A:( 2/ 0/ 0)  B:( 2/ 0/ 0)  B:( 2/ 0/ 0)  B:( 2/ 0/ 0)  B:( 2/ 0/ 0)  B:( 2/ 0/ 0)  B:( 2/ 0/ 0)  B:( 126/ 0/ 0)  B:( 126/ 0/ 0)  B:( 126/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)	3-1-06-00 3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-00-02	3-0-0-00  3-0-0-00  3-0-0-00  3-0-0-00  3-4-0-00  3-0-0-00   3-4-0-00	NR CS NR CS NR CS NR ME CS NR	3-1-06-00 3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-00-02 3-1-00-02 3-1-00-02	3-0-0-00  3-0-0-00  3-0-0-00  3-4-0-00  3-4-0-00  3-4-0-00	CS CS NR ME CS NR ME
B:( 2/ 0/ 0)  5.2.1.3.2.2 Receive Command Short Receive commands  A:( 2/ 0/ 0)  B:( 2/ 0/ 0)  Long Receive commands  A:( 2/ 0/ 0)  B:( 2/ 0/ 0)  B:( 2/ 0/ 0)  B:( 2/ 0/ 0)  B:( 2/ 0/ 0)  B:( 2/ 0/ 0)  B:( 2/ 0/ 0)  B:( 126/ 0/ 0)  B:( 126/ 0/ 0)  B:( 126/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)	3-0-01-00 3-0-05-00 3-1-00-02 3-0-05-00 3-1-00-02 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-00-02	3-0-0-00  3-0-0-00   3-0-0-00	CS CS NR CS NR ME CS NR ME	3-0-01-00 3-0-01-00 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-0-01-00 3-1-00-02 3-0-01-00 3-1-00-00 3-1-00-00	3-0-0-00  3-0-0-00   3-0-0-00  3-0-0-00  3-4-0-00  3-4-0-00	CS   CS   NR   ME   CS   NR   ME   CS   NR   ME   CS   NR   ME   CS   NR   ME   CS   NR   ME   CS   NR   C
Receive Command Short Receive commands  A: ( 2/ 0/ 0) B: ( 2/ 0/ 0)  B: ( 2/ 0/ 0)  Long Receive commands  A: ( 2/ 0/ 0)  B: ( 2/ 0/ 0)  B: ( 2/ 0/ 0)  B: ( 2/ 0/ 0)  B: ( 2/ 0/ 0)  B: ( 2/ 0/ 0)  B: ( 126/ 0/ 0)  B: ( 126/ 0/ 0)  B: ( 126/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)	3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-06-00 3-1-00-02	3-0-0-00  3-0-0-00 3-0-0-00  3-4-0-00 3-0-0-00  3-4-0-00	CS NR CS NR ME ME CS NR ME	3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-1-00-02	3-0-0-00  3-0-0-00  3-4-0-00 3-0-0-00  3-4-0-00	CS NR ME CS NR
Short Receive commands  A:( 2/ 0/ 0)  B:( 2/ 0/ 0)  Long Receive commands  A:( 2/ 0/ 0)  B:( 2/ 0/ 0)  B:( 2/ 0/ 0)  S.2.1.3.2.3 Receive Data Words  A:( 126/ 0/ 0)  B:( 126/ 0/ 0)  B:( 126/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)	3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-06-00 3-1-00-02	3-0-0-00 3-0-0-00 	NR CS NR ME CS NR ME CS NR	3-0-05-00 3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-06-00	3-0-0-00 3-0-0-03 3-4-0-00 3-0-0-00 3-4-0-00	NR CS NR ME CS NR ME
A:( 2/ 0/ 0) B:( 2/ 0/ 0)  Long Receive commands A:( 2/ 0/ 0) B:( 2/ 0/ 0)  B:( 2/ 0/ 0)  S.2.1.3.2.3 Receive Data Words A:( 126/ 0/ 0) B:( 126/ 0/ 0)  B:( 126/ 0/ 0)  S.2.1.3.3 Bi-Phase Encoding Transmit Command A:( 34/ 0/ 0) B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)	3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-06-00 3-1-00-02	3-0-0-00 3-0-0-00 	NR CS NR ME CS NR ME CS NR	3-0-05-00 3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-06-00	3-0-0-00 3-0-0-03 3-4-0-00 3-0-0-00 3-4-0-00	NR CS NR ME CS NR ME CS NR
B:(   2/   0/   0)	3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-06-00 3-1-00-02	3-0-0-00 3-0-0-00 3-4-0-00 3-0-0-00 3 · 4 · 0 · 00	CS NR ME CS NR ME CS NR	3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-06-00	3-0-0-00  3-0-0-00  3-4-0-00  3-0-0-00  3-4-0-00	CS NR ME CS NR ME CS NR
Long Receive commands  A: ( 2/ 0/ 0)  B: ( 2/ 0/ 0)  B: ( 2/ 0/ 0)  5.2.1.3.2.3 Receive Data Words  A: ( 126/ 0/ 0)  B: ( 126/ 0/ 0)  B: ( 126/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  Command  A: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)	3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-1-00-02 3-1-06-00 3-1-00-02	3-0-0-00 	CS NR ME CS NR ME	3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-06-00	3-0-0-00  3-0-0-00  3-4-0-00  3-0-0-00  3-4-0-00	CS NR ME CS NR ME
A:( 2/ 0/ 0)  B:( 2/ 0/ 0)  B:( 2/ 0/ 0)  5.2.1.3.2.3 Receive Data Words  A:( 126/ 0/ 0)  B:( 126/ 0/ 0)  S.2.1.3.3 Bi-Phase Encoding  5.2.1.3.3.1 Transmit Command  A:( 34/ 0/ 0)  B:( 34/ 0/ 0)  Command  A:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)	3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-06-00 3-1-00-02	3-4-0-00 3-0-0-00  3 ·4 ·0 ·00	NR ME CS NR ME	3-0-05-00 3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-06-00	3-4-0-00 3-0-0-00  3-4-0-00 3-0-00	NR  ME  CS  NR  ME  CS  NR
A:( 2/ 0/ 0)  B:( 2/ 0/ 0)  B:( 2/ 0/ 0)  5.2.1.3.2.3 Receive Data Words  A:( 126/ 0/ 0)  B:( 126/ 0/ 0)  S.2.1.3.3 Bi-Phase Encoding  5.2.1.3.3.1 Transmit Command  A:( 34/ 0/ 0)  B:( 34/ 0/ 0)  Command  A:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)	3-0-05-00 3-1-00-02 3-0-01-00 3-1-00-02 3-0-01-00 3-1-06-00 3-1-00-02	3-4-0-00 3-0-0-00  3 ·4 ·0 ·00	NR ME CS NR ME	3-0-05-00 3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-06-00	3-4-0-00 3-0-0-00  3-4-0-00 3-0-00	NR  ME  CS  NR  ME    CS  NR
B:( 2/ 0/ 0)  5.2.1.3.2.3 Receive Data Words  A:( 126/ 0/ 0)  B:( 126/ 0/ 0)  B:( 126/ 0/ 0)  S.2.1.3.3 Bi-Phase Encoding  Transmit Command  A:( 34/ 0/ 0)  B:( 34/ 0/ 0)  Command  A:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)	3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-06-00 3-1-00-02	3-4-0-00 3-0-0-00  3-4-0-00 3-0-0-00	ME CS NR ME CS	3-1-00-02 3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-06-00	3-4-0-00 3-0-0-00  3-4-0-00 3-0-00	ME CS NR ME CS
Receive Data Words  A: ( 126/ 0/ 0)  B: ( 126/ 0/ 0)  B: ( 126/ 0/ 0)  S.2.1.3.3  Bi-Phase Encoding  Transmit Command  A: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  Receive Command  A: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)	3-0-01-00 3-0-05-00 3-1-00-02 3-0-01-00 3-1-06-00 3-1-00-02	3-0-0-00  3 ·4 ·0 ·00 3 ·0 0 00 - ··	CS NR ME ME	3-0-01-00 3-0-05-00 3-1-00-02 3-1-00-00 3-1-06-00	3-0-0-00  3-4-0-00 3-0-00	CS NR ME
A:( 126/ 0/ 0)  B:( 126/ 0/ 0)  B:( 126/ 0/ 0)  5.2.1.3.3  Bi-Phase Encoding  Transmit Command  A:( 34/ 0/ 0)  B:( 34/ 0/ 0)  F.2.1.3.3.2  Receive Command  A:( 34/ 0/ 0)  B:( 34/ 0/ 0)  B:( 34/ 0/ 0)	3-0-05-00 3-1-00-02 3-0-01-00 3-1-06-00 3-1-00-02	3 · 4 · 0 · 00 3 · 0 · 0 · 00	NR ME CS	3-0-05-00 3-1-00-02 3-0-01-00 3-1-06-00	3 · 4 · 0 · 00 3 · 4 · 0 · 00	NR  ME       CS   NR
B:( 126/ 0/ 0)  5.2.1.3.3 Bi-Phase Encoding  5.2.1.3.3.1 Transmit Command  A:( 34/ 0/ 0)  B:( 34/ 0/ 0)  5.2.1.3.3.2 Receive Command  A:( 34/ 0/ 0)  B:( 34/ 0/ 0)	3-1-00-02 3-0-01-00 3-1-06-00 3-1-00-02	3 ·4 ·0 · ·80 3 · ·0 · 0 · 00 - ··	ME      CS  NR	3-1-00-02 3-0-01-00 3-1-06-00	3 ·4· 0-00 3 ·0 ·00	ME     CS   NR
Bi-Phase Encoding  5.2.1.3.3.1	3-0-01-00 3-1-06-00 3-1-00-02	30 0 00 	  CS  NR	3-0-01-00 3-1-06-00	3 0 0 ·00	CS NR
Transmit Command  A: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  Command  A: ( 34/ 0/ 0)  Figure Command  A: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)	3-1-06-00 3-1-00-02		NR	3-1-06-00		NR
Transmit Command  A: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)  Command  A: ( 34/ 0/ 0)  Figure Command  A: ( 34/ 0/ 0)  B: ( 34/ 0/ 0)	3-1-06-00 3-1-00-02		NR	3-1-06-00		NR
B:( 34/ 0/ 0)  5.2.1.3.3.2 Receive Command  A:( 34/ 0/ 0)  B:( 34/ 0/ 0)	3-1-00-02	! !	1	3-1-06-00		NR
5.2.1.3.3.2 Receive Command  A:( 34/ 0/ 0)  B:( 34/ 0/ 0)		3-0-0-00	CS	1	}	!
A:( 34/ 0/ 0) B:( 34/ 0/ 0)	3.0.01.00		i	1 3-1-00-02	3-0-0-00	cs
A:( 34/ 0/ 0) B:( 34/ 0/ 0)		3-0-0-00	cs	3.0.01.00	   3-0-0-co	l Cs
	3-0-05-00		NR	3-0-05-00		NR
5.2.1.3.3.3 Receive Data Words	3-1-00-02	3-0-0:00	cs	1	3-0 0-00	CS
	3-0-01-00	3-0-0-00	  cs	2 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)	-	3-4-0-00	1	1	3-4-0-00	1
5.2.1.3.4 Sync Encoding						
5.2.1.3.4   Sync Encoding 5.2.1.3.4.1   Transmit Command	1	 	l ac		[ •	
	3-0-01-00	:	CS	;	3-0 0 00	CS
A:( 5/ 0/ 0) B:( 5/ 0/ 0)	!	3-0-0-00	NR CS		3-0-00	NR CS
	ļ				ļ	į.
5.2.1.3.4.2 Receive Command	!	3-0-0-00	CS	;	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
		 		!		

antikalamban mengelahkan dalamban sebagai kebesah dalamban dalamban sebagai berandar mengelah mengelah beranda

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT | BVH12.DAT |
By: TEST SYSTEMS, Inc. | 11/12/13 (13:42:44) |
Reference | Test Description | B U S A | B U S B |
Section | Bus: (rum cnt/ errors/ busy cnt) | Command | Response | STAT | Command | Response | STAT |

leference	Test Description	вτ	IS A		вт	J S B	
Section	Bus: (run cnt/ errors/ busy cnt)	Command		STAT	! - :		STA
.2.1.3.5	Message Length	1					
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	3-0-01-00	3-0-0-00	  CS	3-0-01-00	3-0-0-00	  CS
	A: ( 33/ 0/ 0)	3-0-05-00		NR	3-0-05-00		NR
	B:( 33/ 0/ 0)	3-1-00-02	3-4-0-90	ME	3-1-00-02	3-4-0-00	ME
5.2.1.3.5.3	Receive Mode Command	3-0-01-00	3-0-0-00	l Ics	3.0.01.00	30000	l Ics
	A: ( 2/ 0/ 0)	3-0-00-17		NR	3-0-00-17		NR
	B: ( 2/ 0/ 0)	;	3-4-0-00	ME	i	3-4-0-00	ME
	Transmit Mode Command	3-0-01-00	3-0-0-00	  cs	3-0-01-00	   3-0-0-00	   උද
	A: ( 1/ 0/ 0)	3-1-00-01		NR	3-1-00-01	! !	NR
	B: ( 1/ 0/ 0)	1		ME	3-1-00-02	l I	ME
5.2.1.3.5.4	RT-RT Word Count Error	2 0 01 00	1 2 4 4 22	cs			  cs
	! !	;	3-0-0-00 4-0-0-00	cs cs	:	3-0-0-00 4-0-0-00	!
		3-0-08-00	1	NR	;	i	NR
	B:( 2/ 0/ 0)	- 1	¦	CS	3.0 08 00	   4-0-0-00	:
		:	4-0-0-00 3-4-0-00	ME	3 1-00-02	i	ME
	Contiguous Data			l ac			
5.2.1.3.6	Contiguous Data	-	:	CS		3-0-0-00	!
	A: ( 32/ 0/ 0) B: ( 32/ 0/ 0)	3-0-05-00	:	NR  ME	3 0-05-00	i	NR  ME
	B;( 32/ 0/ 0/	3-1-00-02	3-4-0-00	1416	3-1-00.02	3 4-0-00	i i
5.2.1.3.7	Terminal Fail-Safe			İ	ļ	İ	İ
5.2.1.4	  Superseding Commands		 			 	
	part A	3-0-01-00	į	NR	3 0-0100		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 - 80 02	3-4-0-00	ME
	part C	3-0-01-00		NR	3-0-01-00		  NR
		3-1-01-00	:	CS	3-1-01-00	;	CS
		3-1-00-02	:	cs	3 1 00 02	1	cs
	nart D	1 3 6 61 65		ן אינט	1 5 0 00 00		1/10
	part D	3-0-01-00	į.	NR	3-0-01-00	:	NR
		3-1-01-00	;	CS CS	3-1-01-00	1	cs  cs
	<u>i</u>	<u> </u>			1	<del>                                     </del>	<u>i</u>
SUBTITLE:	Required Protocol Tests	:	ATE:	12 No	ov 2013	Page:	_

SUBTITLE: Required Protocol Tests 5.2.1.3.5. Message Length

DATE:

.2 Nov 2013 | P. 15:43:34

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||TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH12.DAT TEST SYSTEMS, Inc. |11/12/13 (13:42:44)| By: Reference Test Description BUSA BUSB Section Command Response STAT Bus: (run cnt/ errors/ busy cnt) Command Response STAT ||5.2.1.5 Required Mode Commands 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS ||5,2,1.5,1|Transmit Status A: ( 2/ 0/ O) 3 1 00 02 3 0 0 0 0 CS 3-1-00-02 3-0-0-00 CS B: ( 2/ 0/ 3-0-01 00 3-0-0 00 CS 3-0-01-00 3-0-0-00 CS 3-3-00-02 3-0-0-00 CS 1 3-1-00-02 3-0-0-00 CS NR 3-0-01-00 - ... 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 C\$ 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 As f 4/ 0/ 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS 3-1-00-04 3-0-0-00 CS 3-1-00-04 3-0-0-00 CS 3-0-01-00 - - -NR NR 3-0-01-00] - - -3-0-01-00 3-0-0-00 CS cs 3-0-02-00 3-0-0-00 NR 3-1-00-05 NR 3-1-00 05 -- --3-0-02-00 - .. .. 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 1764/ 0/ 0) 3-1-01-00 3-0-0.00 CS 3-1-01-00 3-0-0-00 CS B: ( 1764/  $(T \leq 5000us)$ Shutdown 3-1-00-04 3-0-0-00 CS 3-1 00 04 3-0-0-00 CS A: ( 3-1-01-00 NR 2/ 07 0) 3-1-01-00 NR B; ( 2/ 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 OS A: ( 10000/ 3-1-30-00 3-0 0-00 CS 3-1-30-00 3-0 0-00 CS B: ( 10000/ 0/ 5.2.1.7 RT-RT Timeout Delay Time to first NR 3-0-02, 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  $(54us \le T \le 60us)$ 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  $(54us \le T \le 60us)$ 57.0 57.0 ||SUBTITLE: Required Protocol Tests DATE: 12 Nov 2013 | Page: Required Mode Commands TIME: 5.2.1.5. 15:43:34 19 of 26

				BUSB			
Reference Section	Test Description  Bus: (rum cnt/ errors/ busy cnt)	BUS Command Re	S A esponse   STAT		S B Response	STAT	
Dection	bus: (tim city errors) busy city	Comena	esponse   BIAI	Comiano	Response	DIA.	
5.2.1.8	  Bus Switching					 	
	   RT Transmitting		İ			 	
	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	
	3:( 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 CO	cs 	
	A: ( 10945/ 0/ 0)	· · · · · · · · · · · · · · · · · · ·	NR	3-1-05-00		NR	
	B:( 10945/ 0/ 0)	1	-0-0-00 CS	3 -100-02	3-0-0-00	CS	
	Command to another RT	3-1-02-00 3	-c-o-oo   CS		2 0 0 0 0	l    CS	
	A: ( 10945/ 0/ 0)	1 1		3-1 02-00		CS   NR	
	B: ( 10945/ 0/ 0)	1 1	-0-0-00 CS	4·1 05·00		CS	
	1.( 10943) ()	3100-02  3	-0-0-00   C5	3 1-05-62	3-0-0-30	100	
	RT Receiving						
	Valid, Legal Command	3-0-01-00	NR	3-0-01 00		NR	
	A: ( 11649/ 0/ 0)	4-1-05-00 4	0-00 CS	4-1-05-00	4-0-0-00	cs	
	B: ( 11649/ 0/ 0)	; ;	-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/ C/ O)	3-1-05-00	NR	3-1-05-00		NR	
		3-1-00-02 3	s-0-0-00 CS	3-1-00-02	3-0-0-00	CS	
	Command to another RT	3-0-01-00 3	) 3-6-0-00   CS	3-0-01-00	3-00-00	i Ics	
	A:( 11649/ 0/ 0)	4-1-05-00 4	L-0-0-00 CS	4-1-05-CO	!	Cs	
	B:( 11649/ 0/ 0)	4-1-05-00	NR	4-1-05-00	i	NR	
		3-1-00-02 3	9-0-0 00   CS	3-1-00-02	3-0-0-00	cs	
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	S, Inc. MIL-STD-1553B RT VALI SYSTEMS, Inc.	DATION IE	DI KEF		11/12/13	VH12.DA (13:4)		
Reference	Test Description	ВТ	JS A		BUSB			
Section	Bus: (num cut/ errors/ busy cut)	Command	Response	STAT	Connand	Response	STA	
5.2.1.9	I To device I I I III Address of							
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	l CS	
	UUT Adr 1	1-0-05-00	10000	CS	1-0-05-00		:	
	UUT Adr 2	2-0-05-00	2-0-0-00	cs	2-0-05-00		cs	
	UUT Adr 3	3-0-05-00		cs	3-0-05-00		cs	
	UUT Adr 4	4-0-05-00	4-0-0-00	cs	4-0-05-00		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 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	1.2-0-0-00	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	!	CS	15-0-05 00	16-0-0-00	cs	
	UUT Adr 17 (11)	17-0-05-00	L	CS	17-0-05-00	17-0-0-00	[CS	
	UUT Adr 18 (12)	18-0-05-00	!	CS	18-0-05-00		•	
	UUT Adr 19 (13)	19-0-05-00	:	CS	19-0-05-00		:	
	UUT Adr 20 (14)	20-0-05-00	:	CS	20-0-05-00		CS	
	UUT Adr 21 (15)	21-0-05.80	1	CS	230 -05 -00	! !	CS	
	UUT Adr 22 (16) UUT Adr 23 (17)	22-0-05-00	1	CS	22-0-05-00	! !	CS	
		23-0-05-00	i	CS	23-0-05-00		CS	
·	UUT Adr 24 (18) UUT Adr 25 (19)	24-0-05-00	i	CS	24-0-05-00	i	CS	
	UUT Adr 26 (1A)	25-0-05-00	1	CS	25-0-05-00	! !	CS	
	UUT Adr 27 (1B)	25-0-05-00	!	CS  CS	26-0-05-00		CS	
	UUT Adr 28 (1C)	28-0-05-00	!	cs  cs	27-0-05-00		CS	
	UUT Adr 29 (1D)	29 -0 - 05 - 00	:	cs	29 0-05-00	:	•	
	UUT Adr 30 (1E)	30-0-05-00	:	cs	30-0-05-00		1	
	UUT Adr 31 (1F)	31-0-05-00	:	NR	31-0-05-00	•	NR	
	part B	31-0-05-CO	   	NR	31-0-05-00	 	  NR 	
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and the solution

	, Inc. MIL-STD-1553B RT VALIDA SYSTEMS, Inc.	*******			11/12/13	VH12.DA (13:4:		
Reference Section	Test Description Bus: (run cmt/ errors/ busy cmt)	B U	JSA Response	STAT	B C	S B Response	STA	
5.2.2.1	Optional Protocol	:					<u> </u>	
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	
į	A: ( 2/ 0/ 0)	i			j j		İ	
į	B:( 2/ 0/ 0)	j			į į		İ	
5.2.2.1.2	Synchronize	j			i i		İ	
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/ 6)				1 1		j	
1	B: ( 2/ 0/ 0)							
5.2.2.1.2.2	Synchronize with data	3-0-00-17	3-0-0-00	CS	3-0-90-17	3-0-0-00	CS	
	A: ( 2/ 0/ 0)	1						
	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		
				<u> </u>				
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		024d			824d	1	
5.2.2.1.5	Selective Xmtr Shutdown		3 -0 000	CS	3-0-01-00	3 -0-0-00	CS	
	A: ( 4/ 0/ 0)		3-0-0-00	CS	1 :	3-0-0-00	CS	
	B:( 4/ 0/ 0)		3-4-0-00	ME	1 :	3-4-0-00	ME	
			300.00	CS	3-0-01, 00		CS	
		:	!	CS  ME	3-0-01-00		CS	
		:		l CS	3-0-00-21		ME	
		<u>'</u>		ME	3 · C · · 01 - 00		CS	
	 	<u>'</u>	3-4-0-00 3-0-0-00	CS	3.0 00.21	3-4-0-00	ME  CS	
		! 	i	CS	3 · 0 · 01 - 00	3-0-0-00	1	
		3-0-01-00	3-0-0-00	ME	3 0 01-00		CS  ME	
		3-0-01-00	:	CS		3-0-0 00	!	
		3-0-01-00	!	cs	:	3-0-0 00	:	
	Alt Bus Selection Word	3-0-01-00	0000	45	3-0-01-00	0000	•	
	Pri Bus Selection Word	 	0000			0000		
		i	1	ĺ	i			
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)	;	3-0-0-01	DC	!	3-0-0-01		
	B: ( 4/ 0/ 0)	:	3-0-0-01	TF		3-0-0-01,	!	
		:	3-0-0-00	CS		3-0-0-00	Cs	
		1	3-0-0-00	CS	:	3-0 0 00	:	
		:	3-0-0-01	TF	:	3-0-0-01	•	
		:	3-0-0-01	TF	3-0-01-00	}	!	
		!	3-0-0-00	DC	3-1-01-01	1	1	
		3-0-01-00	:	CS	3-0-01-00	<b>:</b>	!	
	<u> </u>	<u>i                                      </u>	<u>i</u>	<u>i</u>	<u> </u>	1	<u>i</u>	
SUBTITLE: 0	Optional Protocol Tests	D.	ATE:	12 No	ov 2013	Page:		
5.2.2.1	. Optional Protocol	i	IME:		13:34		o£ 2€	

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TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH12.DAT TEST SYSTEMS, Inc. |11/12/13 (13:42:44)| Reference Test Description BUSA BUSB Section Command | Response | STAT | Bus: (run cnt/ errors/ busy cnt) Command Response STAT ||5.2.2.1.7|Transmit Vector Word 3-1-00-15 3-0-0 00 CS 3-1-00-16 3-0-0-00 CS 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/ 3-0-01-01 - - NR 3-0-01-01 - - NR A+ ( 3-1-00-18 3-4-0-00 ME 3-1-00 18 3 4-0-00 ME 2/ 3:( 0/ 3-1-08-02 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 3-1-00-16 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 15.2.2.2.2 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 1 3-0-01-00 | 3-0-0-00 1CS 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 ---3-1-00-18 3-4-0-16 MBR 3 1-00-18 3-4-0-16 MBR 5.2.2.2.3 3-1-01-01 3-0-0-08 DC Busy 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 3-3-01-01 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 15.2.2.2.5 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 SUBTITLE: Optional Protocol Tests DATE: 12 Nov 2013 | Page: 5.2.2.1.7. Transmit Vector Word TIME: 15:43:34 23 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH12.DAT TEST SYSTEMS, Inc. 11/12/13 (13:42:44) By: Test Description BUS A BUSB Reference Section Command | Response | STAT Command | Response | STAT Bus: (rum cnt/ errors/ busy cnt) **||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 CŞ 3-1-02-00 3-0-0-00 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 3-1-00-28 3-0-0-00 CS 3-1-00-18 3-0-0-00 CS part B 3-3-26-00 3-4-0-00 ME 3-1-26-00 3-4-C-00 ME 3-1-02-00 3-0-0-00 1cs 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 LCS 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) 31 - 1 - 00 - 01 - - -NR 31-1-00-01 . NR B: ( 2/ 07 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/ 31 0 00-17 - - -31-0-00-17 ... NR 3-1-00 18 3-0-0-16 BCR 3-1-00-18 | 3 0 0-16 | BCR B: ( 2/ 0/ SYNC Word 0000 0000 5.2.2.4.3 Initiate Self-Test 31-1:00:03 .... NR NR 31-1-00-03 3-1-01-00 3-0-0 00 CS A: ( 1968/ 0) 3-1-01-00 3-0-0-00 CS 1968/ B: ( 0)  $(T \le 100,000us)$ Xmtr Shutdown/Override 5.2.2.4.4 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: ( 0/ 3-0-01-00 3 0 0 00 CS 01 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 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 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 ...-NR3-1-00-18 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 12 Nov 2013 | Page: DATE: Illegal Command TIME: 15:43:34 24 of 26 5.2.2.3.

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH12.DAT TEST SYSTEMS, Inc. 11/12/13 (13:42:44) By: Reference Test Description BUS BUSB Section Command Response STAT Bus: (run cnt/ errors/ busy cnt) 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 3-0-01-00 3-0-0-00 CS 3-0-01-00 | 3-0-0-00 | CS A: ( 4/ 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 1CS 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 - - -INR 31.0.00-21 - - -MR 3-1-00-18 3-4-0-16 MBR 3-1-00-18 3-4-0-16 MBR 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 CS 3-0-01.00 3.0-0-00 CS 31-0-00-20 - - -32-0-00 20 - - -NR 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 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/ 3-1-01-01 3-0-0-01 DC 3-1-01-01 3-0-0-01 DC B: ( 4/ 0) 3-0-01-00 3-0-0-01 TF 0/ 3-0-01-00 3-0-0-01 TF 31-1-00-06 - - -NR 31 - 1 - 00 - 06 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 lcs. NR 31 1-31-07 - - -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 C 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 Reset Remote Terminal 15.2.2.4.7 Delay to Stable Response 31-1-00-08 NR NR 31-1-00-08 A: ( NR 1768/ 0/ c) 3-1-01-00 3-1-01-00 NR B: ( 1768/ 0/ ٥)  $(T \le 5000us)$ 7 Clear Xmtr Shutdown 3-1-00-04 3-0-0 00 CS 3-1-00-04 3-0 0-00 CS A: ! 2/ 0/ 3-1-01-00 - -01 NR 3-1-01-00 NR В: ( 2/ 31-1-00-08 - - -NR 31-1-00-08 NR CS CS 3-1-01-00 3-0-0-00 3-1-01-00 3-0-0-00 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/ 31-1-00-00 - - -NR 31-1-00-00 NR 0/ ۵ì В: ( 0) 3-1-00-02 3-4-0-16 MBR 3-1-00-02 | 3 4-0-16 | MBR Optional Protocol Tests SUBTITLE: DATE: 12 Nov 2013 Page: 5.2.2.4.5. TIME: Selective Xmtr Shutdown 15:43:34 25 of 26

TEST SYSTEMS By: TEST S	YSTEMS, In						•	11/12/13	3VH12.D		
Reference	Test I	escrip	tion		BUSA			BUSB			
Section		cnt/erro		cnt)	Command	Response	STAT	Command	Response	STA	
5.2.2.5	Error Inje		gage	e.	] 		†     				
5.2.2.5 <i>.</i> 1	Parity:		_				 	l I		1	
5.2.2.5.1.1		nd w/Pa			31-0-01-01		l NR	  31-0-01-01		i  NR	
· · · · · · · · · · · · · · · · · · ·	Comman	ia w/rc	ттсу	BILOI	3-1-00-18		BCR	3-1-00-18	3-0-0-16	BCR	
					3-0-01-00		CS	3-0-01-00	3-0-0-16	les	
					31-0-01-00		NR	31-0-01-00		NR	
					3-1-00-18		CS	: :		CS	
					3-0-01-00		lcs	3-1-00-18	3.0.0.00	CS	
					3-0-01-00	7-0-0-00		3-0-01-00	3-0-0-00	05	
5.2.2.5.1.2	Data V	Word Er	ror		31-0-01-01		NR	31-0-01-01		NR	
	A: (	32/	0/	0)	3-1-00-18	3-0-0-16	BCR	3-1-00-7,8	30016	BCR	
	B: (	38/	0/	0)	3 - 0 - 01 - 00	3-0-0-00	CS	3-0-02-00	3-0-0-00	CS	
					31-0-01-00		NR	31-0-01-00		NR	
					:	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	ı: BC	-RT	31-0-01-01		NR	31-0-01-01		NR	
	Broado	cast			3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR	
	Ar (	33/	0/	0)	3-0-01-00	3-0-0-00	cs	3-0-01-00	3-0-0-00	CS	
	В: (	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	
F 9 3	3T-4 9										
5.2.3	Noise Rej	Receiv				3-0-0-00		3-0-30-00	1	EF	
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