

Alpha Test Plan	Tester Name:	
USB BASIC v1.3	Date Completed:	
E1	Environment(s) Tested:	AquaLite S2 + Micro Expander Option

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time				
E-1.0.0	AL S2 + MX	Setup AquaLite v1.36										
E-1.0.1	AL S2 + MX		Download & install AquaLite v1.36 from https://aquarius.je/aqualite (unzip files)	AquaLite v1.36 is downloaded and installed on your system.								
E-1.0.2	AL S2 + MX			System should boot into "BASIC Press RETURN key to start" flashing screen. Menubar should say AquaLite v1.36 .								
E-1.0.3	ALS2 + MX		Within AquaLite v1.36, go to menu option Tool > Options, select the Peripherals tab, and make sure Micro Expander is checked. Click Ok.	System should beep and reboot.								
E-1.0.4	AL S2 + MX		Press the A key within the emulator.	The "About USB BASIC" screen should be displayed.								
E-1.0.5	AL S2 + MX		Press any key to exit the About screen.	The "Aquarius USB BASIC, v1.3" screen should be displayed.								
E-1.0.6	ALS2 + MX		Note: This screen is the starting point for most tests in this plan.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.								
	DO NOT CONTINUE IF ANY TESTS IN THIS SECTION DID NOT PASS! CONTACT THE TESTING COORDINATOR. Sean Harrinaton sph@1stage.com.											

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-1.1.0	AL S2 + MX	Test legacy commands						
E-1.1.1.1	AL S2 + MX	Test CALL xx	From the USB BASIC command screen type CALL \$8000 and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-1.1.1.2	AL S2 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC V1.3" on the next line, followed by "Ok" on				
E-1.1.1.3	AL S2 + MX		From the USB BASIC command screen type CALL -32768 and hit RETURN	the next line with a cursor below. The cursor should move down one row, and the system should freeze.				
E-1.1.1.4	AL S2 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-1.1.1.5	AL S2 + MX		From the USB BASIC command screen type CALL 32768 (NO minus sign!) and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-1.1.1.6	AL S2 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-1.1.2	AL S2 + MX	Test CAT	From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the USB folder within the AquaLite program folder, followed by Ok beneath. Note that the contents can vary from system to system.				
E-1.1.3.1	AL S2 + MX	Test CD	From the USB BASIC command screen type CD and hit RETURN	The cursor should move down one row, and a / character should be displayed, followed by Ok beneath.				
E-1.1.3.2	AL S2 + MX]	From the USB BASIC command screen type CD"ROMS" and hit RETURN	The cursor should move down one row and display Ok beneath.				
E-1.1.4	AL S2 + MX	Test DIR		System should display a detailed listing of the contents of the USB > ROMS folder within the Aqualite program folder, followed by Ok beneath. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				
E-1.1.5.1	AL S2 + MX	Test CLS	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok in black letters on a cyan background.				
E-1.1.5.2	AL S2 + MX]	From the USB BASIC command screen type CLS 8 and hit RETURN	System should clear the screen and show Ok in black letters on a grey background.				
E-1.1.5.3	AL S2 + MX]	From the USB BASIC command screen type CLS \$7D and hit RETURN	System should clear the screen and show Ok in white letters on a dark green background.				
E-1.1.5.4	AL S2 + MX]	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok in black letters on a cyan background.				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-1.1.6.1	AL S2 + MX	Test SAVE a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.		,		,
			7,5	, , , , , , , , , , , , , , , , , , , ,		1		,
E-1.1.6.2	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE 20 CLS 30 PRINT "Hello"	System should show each line typed, and move down to the empty line beneath.				
E-1.1.6.3	AL S2 + MX		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program and display Ok beneath.				
E-1.1.6.4	AL S2 + MX		From the USB BASIC command screen type SAVE "TEST01.BAS" and hit RETURN	The cursor should move down one row and display Ok beneath. In the USB > ROMS folder within the AquaLite program folder, there should be a new file named TEST01.BAS.				
E-1.1.6.5	AL S2 + MX		From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the folder, and the "TESTO1.BAS" file should be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				
E-1.1.7.1	AL S2 + MX	Test LOAD a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-1.1.7.2	AL S2 + MX		From the USB BASIC command screen type LIST and hit RETURN	System should display NO PROGRAM LINES with Ok beneath.				
E-1.1.7.3	AL S2 + MX		From the USB BASIC command screen type LOAD "TEST01.BAS" and hit RETURN	System should display Ok beneath.				
E-1.1.7.4	AL S2 + MX		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program listed in test E- 1.1.6.2 and display Ok beneath.				
E-1.1.8.1	AL S2 + MX	Test RUN a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-1.1.8.2	AL S2 + MX		From the USB BASIC command screen type RUN "TEST01.BAS" and hit RETURN	System should clear the screen, print Hello at the top, and display Ok beneath.				
E-1.1.9.1	AL S2 + MX	Test DEL	From the USB BASIC command screen type DEL "TEST01.BAS" and hit RETURN	System should display Ok beneath.				
E-1.1.9.2	AL S2 + MX		From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the folder, and the "TEST01.BAS" file SHOULD NOT be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				
E-1.1.10.1	AL S2 + MX	Test SAVE a BIN file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-1.1.10.2	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 RBM Testing SAVE BIN 20 POKE \$8000,97,98,99,100 30 PRINT "Done"	System should show each line typed, and move down to the empty line beneath.				
E-1.1.10.3	AL S2 + MX		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program and display Ok beneath.				
E-1.1.10.4	AL S2 + MX		From the USB BASIC command screen type RUN and hit RETURN	System should print Done and display Ok beneath the program listing.				
E-1.1.10.5	AL S2 + MX		From the USB BASIC command screen type CD "/" and hit RETURN	System should display Ok beneath.				
E-1.1.10.6	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: SAVE "POKE.BIN", \$8000, 4	System should display Ok beneath.				
E-1.1.10.7	AL S2 + MX		From the USB BASIC command screen type DIR and hit RETURN	System should display a detailed listing of the contents of the USB folder within the Aqualite program folder, and the file named "POKE.BIN" should be listed in the contents. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll past the full list of contents.				
E-1.1.11.1	AL S2 + MX	Test LOAD a BIN file	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.			_	
E-1.1.11.2	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN:	System should display abcd in the middle of the screen, with Ok beneath the text you just typed.				
		l	LOAD "POKE.BIN", \$3242	<u>l</u>				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-1.1.12.1	AL S2 + MX	Test RUN a ROM file	From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				1
1			RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on				İ
<u> </u>				the next line with a cursor below.				
E-1.1.12.2	AL S2 + MX		From the USB BASIC command screen type CD"ROMS" and hit	The cursor should move down one row and display Ok beneath.				İ
			RETURN					
E-1.1.12.3	AL S2 + MX		From the USB BASIC command screen type the code below and hit	System should load the SNAFU game ROM and display the SNAFU title				İ
ı			RETURN:	screen.				1
			RUN "SNAFU.ROM"					
E-1.1.12.4	AL S2 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				1
ı			RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				1
E-1.1.13.1	AL S2 + MX	Test DEBUG	From the USB BASIC command screen type DEBUG and hit RETURN	The AQUBUG screen should pop up with white text on a blue				
L-1.1.13.1	AL 32 TIVIA	Test DEBOG	From the O3B BASIC command screen type DEBOG and the RETORN	background.				1
E-1.1.13.2	AL S2 + MX	1	On the AQUBUG screen type the letter Q	System should return to the USB BASIC command screen, showing the				
ı			2	DEBUG command with Ok beneath.				1
E-1.1.14.1	AL S2 + MX	Test HEX\$	From the USB BASIC command screen type the code below and hit	System should display 3000 on the next line with Ok beneath.				
ı			RETURN:					1
<u> </u>			PRINT HEX\$(12288)					1
E-1.1.14.2	AL S2 + MX		From the USB BASIC command screen type the code below and hit	System should display FF85 on the next line with Ok beneath.				1
			RETURN:					ı
<u> </u>			PRINT HEX\$(-123)					
E-1.1.14.3	AL S2 + MX		From the USB BASIC command screen type the code below and hit	System should display FFFF on the next line with Ok beneath.				ı
			RETURN: PRINT HEX\$(65535)					ı
E-1.1.15	AL S2 + MX	Test JOY	From the USB BASIC command screen type the code below and try to	System should display 64 on the next line with Ok beneath. If you				<u> </u>
r-1.1.13	ML JZ T IVIA	1636301	type RETURN and the 1 key at about the same time (maybe a slight	weren't able to get it to work exactly right, a 0 might be displayed				ı
ı			delay before the 1 key):	instead of the 64. Try a couple of times to get it to work, if you can.				1
ı			PRINT JOY(0)					1
E-1.1.16	ALS2 + MX	Test IN	From the USB BASIC command screen type the code below and hit	System should display 247 on the next line with Ok beneath.				
1			RETURN:	, ,				İ
<u> </u>			PRINT IN(\$FF)					1
E-1.1.17.1	AL S2 + MX	Test PSG	From the USB BASIC command screen type the code below and hit	System should play a Db4 tone continuously.				1
ı			RETURN:					1
			PSG 8,15,0,148,1,1,7,56					
E-1.1.17.2	AL S2 + MX		From the USB BASIC command screen type the code below and hit	System should stop playing the tone.				İ
1			RETURN: PSG 8,0,7,0					İ
E-1.1.18.1	AL S2 + MX	Test OUT	From the USB BASIC command screen type the code below and hit	System should play a Db4 tone continuously and print Ok beneath.				
E-1.1.10.1	AL 32 + IVIX	lest out	RETURN:	system should play a DD4 tone continuously and print Ok beneath.				İ
ı			PSG 8,15,0,148,1,1,7,56					1
E-1.1.18.2	AL S2 + MX	1	From the USB BASIC command screen type the code below and hit	System should print Ok after each RETURN, and then should stop				i
ı			RETURN after each line:	playing the tone after the second.				1
ı			OUT 247,8					1
<u> </u>			OUT \$F6,0					1
E-1.1.19.1	AL S2 + MX	Test EDIT	From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				1
1			RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on				İ
				the next line with a cursor below.				
E-1.1.19.2	AL S2 + MX		From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty				i
ı			RETURN: 10 REM Testing EDIT	line beneath.				i
E-1.1.19.3	AL S2 + MX		From the USB BASIC command screen type the code below and hit	System should list the previously entered line 10 with a blue cursor				
r-1.1.19.3	ML JZ T IVIA		RETURN:	and white text positioned over the R in the REM command.				ı
			EDIT 10	and write text positioned over the Kill the Kelvi command.				ı
E-1.1.19.4	AL S2 + MX	1	Within the line 10 edit with the cursor on the R of REM, press the	System should display line 10 with a SPACE between the 10 and the				
·			SPACE bar to insert a space between the line number 10 and the REM	REM command.				i
<u>. </u>			statement.					
E-1.1.19.5	AL S2 + MX		Within the line 10 edit with the cursor on the R of REM, CTRL + /	System should list the previously entered line 10 with a blue cursor				
ı			eleven times so the cursor is on top of the SPACE after the word	and white text positioned over the SPACE after the word Testing.				ı
			Testing.					
E-1.1.19.6	AL S2 + MX		Within the line 10 edit with the cursor on the SPACE between the	System should list the previously entered line 10 with a blue cursor				ı
ı			word Testing and EDIT, press the DELETE/BACKSPACE key three times	and white text positioned over the SPACE before the word EDIT.				ı
ı			to delete the letters "ing" at the end of the word Testing.					i
E-1.1.19.7	ALS2 + MX	1	Within the line 10 edit with the cursor on the SPACE between the	The cursor should go to the line beneath line 10, and should NOT				
L-1.1.15.7	AL 32 T IVIA		word Test and EDIT, press CTRL + P eight times so the cursor is over	display Ok beneath.				i
ı			the letter R in REM, and then hit RETURN/ENTER.					ı
,			,					ı
1								
E-1.1.19.8	AL S2 + MX		From the USB BASIC command screen type the code below and hit	System should display a blank line, then list line 10 again, with Ok				,
E-1.1.19.8	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: LIST 10	System should display a blank line, then list line 10 again, with Ok beneath.				l

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-1.1.20.1	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 CLS 20 LOCATE 20,12 30 PRINT CHR\$ (KEY(0))	System should show each line typed, and move down to the empty line beneath.				
E-1.1.20.2	AL S2 + MX		From the USB BASIC command screen type RUN and hit RETURN	System should move the cursor to the middle of the screen.				
E-1.1.20.3	AL S2 + MX		With the cursor in the middle of the screen, press the G key.	System should display a "g" in the middle of the screen, then go to the next line and print Ok beneath.				
E-1.1.20.4	AL S2 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
			PLEASE CONTINUE	EVEN IF ALL TESTS IN THIS SECTION DID NOT PAS	S.			

New Comm	nands							
Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-1.2.0	AL S2 + MX	Test NEW commands						
E-1.2.1.1	AL S2 + MX	Test POKE auto-increment	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-1.2.1.2	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: POKE 12945, 97, 98, 99, 100	The screen should print abcd in a row towards the middle bottom of the screen.				
E-1.2.2.1	AL S2 + MX	Test POKE range	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-1.2.2.2	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291 TO \$3299,97	The screen should print aaaaaaaaa (nine letter a's) in a row towards the middle bottom of the screen.				
E-1.2.3.1	AL S2 + MX	Test POKE step	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-1.2.3.2	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291,97,STEP 40,97,STEP 40,97	The screen should print aaa (three letter a's) in a downward line at the middle bottom of the screen.				
E-1.2.4.1	AL S2 + MX	Test POKE strings	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-1.2.4.2	AL S2 + MX	_	From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291, "Hubba", STEP 40, "Bubba"	The screen should print the words Hubba Bubba stacked on top of each other at the middle bottom of the screen.				
E-1.2.5.1	AL S2 + MX	Test COPY	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-1.2.5.2	AL S2 + MX	1	From the USB BASIC command screen type the code below and hit RETURN: COPY \$3000,\$3000+440,120	The text at the top of the screen ("Copyright © 1982 by Microsoft, Inc 52" & "USB BASIC v1.3" should be duplicated in the middle of the screen, with the Ok beneath the COPY command near the top.				
E-1.2.6.1	AL S2 + MX	Test ATN	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-1.2.6.2	AL S2 + MX	_	From the USB BASIC command screen type the code below and hit RETURN: PRINT ATN (1)	System should display .785398 on the next line with Ok beneath.				
E-1.2.7.1	AL S2 + MX	Test DEC	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-1.2.7.2	AL S2 + MX	-	From the USB BASIC command screen type the code below and hit RETURN: PRINT DEC ("55FF")	System should display 22015 on the next line with Ok beneath.				
E-1.2.8.1	AL S2 + MX	Test DEEK	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-1.2.8.2	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (DEEK (12288+41))	System should display 6B4F on the next line with Ok beneath. (\$4F is the "O" character and \$6B is the "k" character from the top left of the screen.)				
E-1.2.9.1	AL S2 + MX	Test DOKE	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-1.2.9.2	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: DOKE 12288+41,\$6948	System should display Hi at the top left of the screen and show Ok beneath the DOKE command line. (\$48 is the "H" character and \$69 is the "i" character.)				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-1.2.10.1	AL S2 + MX	Test KEY	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-1.2.10.2	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 CLS 42 20 LOCATE 20,12 30 PRINT CHRS (KEY (0))	System should show each line typed, and move down to the empty line beneath.				
E-1.2.10.3	AL S2 + MX		From the USB BASIC command screen type RUN and hit RETURN	System should clear the screen to GREEN letters on a PURPLE background and move the GREEN cursor to the middle of the screen, waiting for input.				
E-1.2.10.4	AL S2 + MX		With the cursor in the middle of the screen, press the M key (without the SHIFT key pressed).					
E-1.2.11.1	AL S2 + MX	Test SDTM	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-1.2.11.2	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: SDTM "230517010101"	System should display Ok beneath. (Note: On AquaLite, there is no way to actually SET the DateTime, so it will stay set to the hosting computer's system clock.)				
E-1.2.11.3	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: SDTM "kkk"	System should display SN Error beneath.				
E-1.2.12.1	AL S2 + MX	Test DTM\$	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-1.2.12.2	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT DTM\$ (0)	System should display a string with the current date and time, formatted YYMMDDHHMMSSCC, with Ok beneath.				
E-1.2.12.3	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT DTM\$ (1)	System should display a string with the current date and time, formatted YYYY-MM-DD HH:MM:SS, with Ok beneath. Note that the Century is assumed to be 20, and the hours are in 24 hour format.				
E-1.2.12.4	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: $ PRINT \ \ LEFT\$ \ (DTM\$ \ (1)\ ,10) $	System should display a string with the current date, formatted YYYY-MM-DD, with Ok beneath. Note that the Century is assumed to be 20.				
E-1.2.12.5	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: $ PRINT \ RIGHT (DTM\$ (1),8)) $	System should display a string with the current time, formatted HH:MM:SS, with Ok beneath. Note that the hours are in 24 hour format.				
E-1.2.13.1	ALS2 + MX	Test VER	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-1.2.13.2	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (VER(0))	System should display 0103, with Ok beneath.				
E-1.2.13.3	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT VAL (LEFT\$ (HEX\$ (VER (0)), 2))	System should display 1, with Ok beneath.				
E-1.2.13.4	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT VAL (RIGHT\$ (HEX\$ (VER (0)), 2))	System should display 3, with Ok beneath.				
E-1.2.14.1	ALS2 + MX	Test DEF FN / FN	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-1.2.14.2	AL S2 + MX	1	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-1.2.14.3	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 DEF FN A (X) = X+7 20 PRINT FN A (9) 30 PRINT FN A (20)	System should show each line typed, and move down to the empty line beneath.				
E-1.2.14.4	AL S2 + MX	1	From the USB BASIC command screen type RUN and hit RETURN	System should print 16 on one line, 27 beneath it, with Ok beneath the 27.				
E-1.2.14.5	AL S2 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT FN A (7)	System should print 14, with Ok beneath.				
E-1.2.15	AL S2 + MX	TESTING COMPLETE	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
			PLEASE CONTINUE	EVEN IF ALL TESTS IN THIS SECTION DID NOT PAS	S.			



Alpha Test Plan	Tester Name:	
USB BASIC v1.3	Date Completed:	
E2	Environment(s) Tested:	AquaLite Aquarius II + Micro Expander Option

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-2.0.0	AL A2 + MX	Setup AquaLite v1.36						
E-2.0.1	AL A2 + MX	1	Download & install AquaLite v1.36 from https://aquarius.je/aqualite	AquaLite v1.36 is downloaded and installed on your system.				
			(unzip files)					
E-2.0.2	AL A2 + MX		Launch AquaLite v1.36. (aqualite.exe)	System should boot into "BASIC Press RETURN key to start" flashing				
				screen. Menubar should say AquaLite v1.36.				
E-2.0.3	AL A2 + MX		Within AquaLite v1.36, go to menu option Tool > Options, select the	System should beep and reboot.				
			Hardware tab, and make sure Aquarius II is selected in the Model					
			section. Click Ok.					
E-2.0.4	AL A2 + MX		Within AquaLite v1.36, go to menu option Tool > Options, select the	System should beep and reboot.				
			Peripherals tab, and make sure Micro Expander is checked. Click Ok.					
		1						
E-2.0.5	AL A2 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				
			RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on				
				the next line with a cursor below.				
E-2.0.6	AL A2 + MX		Press the A key within the emulator.	The "About USB BASIC" screen should be displayed.				
E-2.0.7	AL A2 + MX		Press any key to exit the About screen.	The "Aquarius USB BASIC, v1.3" screen should be displayed.				
E-2.0.8	AL A2 + MX		Press RETURN/ENTER key to go to the USB BASIC command screen.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				
			Note: This screen is the starting point for most tests in this plan.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on				
				the next line with a cursor below.				
		DO NO	OT CONTINUE IF ANY TESTS IN THIS SECTION DID I	NOT PASS! CONTACT THE TESTING COORDINATO	R, Sean Harrington sph@1stage.com.			

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-2.1.0	AL A2 + MX	Test legacy commands						
E-2.1.1.1	AL A2 + MX	Test CALL xx	From the USB BASIC command screen type CALL \$8000 and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-2.1.1.2	AL A2 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-2.1.1.3	AL A2 + MX		From the USB BASIC command screen type CALL -32768 and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-2.1.1.4	AL A2 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-2.1.1.5	AL A2 + MX		From the USB BASIC command screen type CALL 32768 (NO minus sign!) and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-2.1.1.6	AL A2 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-2.1.2	AL A2 + MX	Test CAT	From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the USB folder within the AquaLite program folder, followed by Ok beneath. Note that the contents can vary from system to system.				
E-2.1.3.1	AL A2 + MX	Test CD	From the USB BASIC command screen type CD and hit RETURN	The cursor should move down one row, and a / character should be displayed, followed by Ok beneath.				
E-2.1.3.2	AL A2 + MX		From the USB BASIC command screen type CD"ROMS" and hit RETURN	The cursor should move down one row and display Ok beneath.				
E-2.1.4	AL A2 + MX	Test DIR	From the USB BASIC command screen type DIR and hit RETURN	System should display a detailed listing of the contents of the USB > ROMS folder within the Aqualite program folder, followed by Ok beneath. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-2.1.5.1	AL A2 + MX	Test CLS	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok in black letters on a cyan	,			
E-2.1.5.2	AL A2 + MX		From the USB BASIC command screen type CLS 8 and hit RETURN	background. System should clear the screen and show Ok in black letters on a grey				
				background.				
E-2.1.5.3	AL A2 + MX			System should clear the screen and show Ok in white letters on a dark green background.				<u> </u>
E-2.1.5.4	AL A2 + MX		From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok in black letters on a cyan background.				1
E-2.1.6.1	AL A2 + MX	Test SAVE a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				1
E-2.1.6.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE 20 CLS 30 PRINT "Hello"	System should show each line typed, and move down to the empty line beneath.				
E-2.1.6.3	AL A2 + MX		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program and display Ok beneath.				
E-2.1.6.4	AL A2 + MX		From the USB BASIC command screen type SAVE "TESTO1.BAS" and hit RETURN	The cursor should move down one row and display Ok beneath. In the USB > ROMS folder within the AquaLite program folder, there should be a new file named TEST01.BAS.				
E-2.1.6.5	AL A2 + MX		From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the folder, and the "TESTO1.BAS" file should be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				
E-2.1.7.1	AL A2 + MX	Test LOAD a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-2.1.7.2	AL A2 + MX		From the USB BASIC command screen type LIST and hit RETURN	System should display NO PROGRAM LINES with Ok beneath.				
E-2.1.7.3	AL A2 + MX		From the USB BASIC command screen type LOAD "TEST01.BAS" and hit RFTURN	System should display Ok beneath.				
E-2.1.7.4	AL A2 + MX		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program listed in test E- 2.1.6.2 and display Ok beneath.				
E-2.1.8.1	AL A2 + MX	Test RUN a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-2.1.8.2	AL A2 + MX		From the USB BASIC command screen type RUN "TEST01.BAS" and hit RETURN	System should clear the screen, print Hello at the top, and display Ok beneath.				
E-2.1.9.1	AL A2 + MX	Test DEL	From the USB BASIC command screen type DEL " TEST01.BAS " and hit RETURN	System should display Ok beneath.				
E-2.1.9.2	AL A2 + MX		From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the folder, and the "TEST01.BAS" file SHOULD NOT be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				
E-2.1.10.1	AL A2 + MX	Test SAVE a BIN file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-2.1.10.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE BIN 20 PORE \$8000, 97, 98, 99, 100 30 PRINT "Done"	System should show each line typed, and move down to the empty line beneath.				
E-2.1.10.3	AL A2 + MX		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program and display Ok beneath.				1
E-2.1.10.4	AL A2 + MX		From the USB BASIC command screen type RUN and hit RETURN	System should print Done and display Ok beneath the program listing.				
E-2.1.10.5	AL A2 + MX		From the USB BASIC command screen type CD "/" and hit RETURN	System should display Ok beneath.				
E-2.1.10.6	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: SAVE "POKE.BIN", \$8000, 4	System should display Ok beneath.				
E-2.1.10.7	AL A2 + MX		From the USB BASIC command screen type DIR and hit RETURN	System should display a detailed listing of the contents of the USB folder within the Aqualite program folder, and the file named "POKE.BIN" should be listed in the contents. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll past the full list of contents.				
E-2.1.11.1		Test LOAD a BIN file	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-2.1.11.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: LOAD "POKE.BIN", \$3242	System should display abcd in the middle of the screen, with Ok beneath the text you just typed.				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-2.1.12.1	AL A2 + MX	Test RUN a ROM file	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-2.1.12.2	AL A2 + MX		From the USB BASIC command screen type CD"ROMS" and hit RETURN	The cursor should move down one row and display Ok beneath.				
E-2.1.12.3	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: RUN "SNAFU.ROM"	System should load the SNAFU game ROM and display the SNAFU title screen.				
E-2.1.12.4	AL A2 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-2.1.13.1	AL A2 + MX	Test DEBUG	From the USB BASIC command screen type DEBUG and hit RETURN	The AQUBUG screen should pop up with white text on a blue background.				
E-2.1.13.2	AL A2 + MX		On the AQUBUG screen type the letter Q	System should return to the USB BASIC command screen, showing the DEBUG command with Ok beneath.				
E-2.1.14.1	AL A2 + MX	Test HEX\$	From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (12288)	System should display 3000 on the next line with Ok beneath.				
E-2.1.14.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (-123)	System should display FF85 on the next line with Ok beneath.				
E-2.1.14.3	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (65535)	System should display FFFF on the next line with Ok beneath.				
E-2.1.15	AL A2 + MX	Test JOY	From the USB BASIC command screen type the code below and try to type RETURN and the 1 key at about the same time (maybe a slight delay before the 1 key): PRINT JOY (0)	System should display 64 on the next line with Ok beneath. If you weren't able to get it to work exactly right, a 0 might be displayed instead of the 64. Try a couple of times to get it to work, if you can.				
E-2.1.16	AL A2 + MX	Test IN	From the USB BASIC command screen type the code below and hit RETURN: PRINT IN (SFF)	System should display 247 on the next line with Ok beneath.				
E-2.1.17.1	AL A2 + MX	Test PSG	From the USB BASIC command screen type the code below and hit RETURN: PSG 8,15,0,148,1,1,7,56	System should play a Db4 tone continuously.				
E-2.1.17.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: PSG 8,0,7,0	System should stop playing the tone.				
E-2.1.18.1	AL A2 + MX	Test OUT	From the USB BASIC command screen type the code below and hit RETURN: PSG 8,15,0,148,1,1,7,56	System should play a Db4 tone continuously and print Ok beneath.				
E-2.1.18.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN after each line: OUT 247,8 OUT \$F6,0	System should print Ok after each RETURN, and then should stop playing the tone after the second.				
E-2.1.19.1	AL A2 + MX	Test EDIT	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-2.1.19.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: 10 REM Testing EDIT	System should show each line typed, and move down to the empty line beneath.				
E-2.1.19.3	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: ${\tt EDIT} \ \ 10$	System should list the previously entered line 10 with a blue cursor and white text positioned over the R in the REM command.				
E-2.1.19.4	AL A2 + MX		Within the line 10 edit with the cursor on the R of REM, press the SPACE bar to insert a space between the line number 10 and the REM statement.	System should display line 10 with a SPACE between the 10 and the REM command.				
E-2.1.19.5	AL A2 + MX		Within the line 10 edit with the cursor on the R of REM, CTRL + / eleven times so the cursor is on top of the SPACE after the word Testing.	System should list the previously entered line 10 with a blue cursor and white text positioned over the SPACE after the word Testing.				
E-2.1.19.6	AL A2 + MX		Within the line 10 edit with the cursor on the SPACE between the word Testing and EDIT, press the DELETE/BACKSPACE key three times to delete the letters "ing" at the end of the word Testing.	System should list the previously entered line 10 with a blue cursor and white text positioned over the SPACE before the word EDIT.				
E-2.1.19.7	AL A2 + MX		Within the line 10 edit with the cursor on the SPACE between the word Test and EDIT, press CTRL + P eight times so the cursor is over the letter R in REM, and then hit RETURN/ENTER.	The cursor should go to the line beneath line 10, and should NOT display Ok beneath.				
E-2.1.19.8	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: LIST 10	System should display a blank line, then list line 10 again, with Ok beneath.				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-2.1.20.1	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 CLS 20 LOCATE 20,12 30 PRINT CHR\$ (KEY(0))	System should show each line typed, and move down to the empty line beneath.				
E-2.1.20.2	AL A2 + MX		From the USB BASIC command screen type RUN and hit RETURN	System should move the cursor to the middle of the screen.				
E-2.1.20.3	AL A2 + MX		With the cursor in the middle of the screen, press the G key.	System should display a "g" in the middle of the screen, then go to the next line and print Ok beneath.				
E-2.1.20.4	AL A2 + MX		From the Aqualite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
			PLEASE CONTINUE	EVEN IF ALL TESTS IN THIS SECTION DID NOT PAS	S.			

New Comn	nanas							
Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-2.2.0	AL A2 + MX	Test NEW commands						
E-2.2.1.1	AL A2 + MX	Test POKE auto-increment	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-2.2.1.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: POKE 12945, 97, 98, 99, 100	The screen should print abcd in a row towards the middle bottom of the screen.				
E-2.2.2.1	AL A2 + MX	Test POKE range	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-2.2.2.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291 TO \$3299, 97	The screen should print aaaaaaaaa (nine letter a's) in a row towards the middle bottom of the screen.				
E-2.2.3.1	AL A2 + MX	Test POKE step	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-2.2.3.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291,97,STEP 40,97,STEP 40,97	The screen should print aaa (three letter a's) in a downward line at the middle bottom of the screen.				
E-2.2.4.1	AL A2 + MX	Test POKE strings	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-2.2.4.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291, "Hubba", STEP 40, "Bubba"	The screen should print the words Hubba Bubba stacked on top of each other at the middle bottom of the screen.				
E-2.2.5.1	AL A2 + MX	Test COPY	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-2.2.5.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: COPY \$3000,\$3000+440,120	The text at the top of the screen ("Copyright © 1982 by Microsoft, Inc 52" & "USB BASIC v1.3" should be duplicated in the middle of the screen, with the Ok beneath the COPY command near the top.				
E-2.2.6.1	AL A2 + MX	Test ATN	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-2.2.6.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT ATN (1)	System should display .785398 on the next line with Ok beneath.				
E-2.2.7.1	AL A2 + MX	Test DEC	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-2.2.7.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT DEC ("55FF")	System should display 22015 on the next line with Ok beneath.				
E-2.2.8.1	AL A2 + MX	Test DEEK	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-2.2.8.2	AL A2 + MX]	From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (DEEK (12288+41))	System should display 6B4F on the next line with Ok beneath. (\$4F is the "O" character and \$6B is the "k" character from the top left of the screen.)				
E-2.2.9.1	AL A2 + MX	Test DOKE	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-2.2.9.2	AL A2 + MX	1	From the USB BASIC command screen type the code below and hit RETURN: DOKE 12288+41,\$6948	System should display Hi at the top left of the screen and show Ok beneath the DOKE command line. (\$48 is the "H" character and \$69 is the "I" character.)				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-2.2.10.1	AL A2 + MX	Test KEY	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-2.2.10.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN after each line:	System should show each line typed, and move down to the empty line beneath.				
			10 CLS 42	line beneath.				
			20 LOCATE 20,12					
			30 PRINT CHR\$(KEY(0))					
E-2.2.10.3	AL A2 + MX		From the USB BASIC command screen type RUN and hit RETURN	System should clear the screen to GREEN letters on a PURPLE background and move the GREEN cursor to the middle of the screen,				
				waiting for input.				
E-2.2.10.4	AL A2 + MX	1	With the cursor in the middle of the screen, press the M key (without	System should display a "m" in the middle of the screen, then go to				
			the SHIFT key pressed).	the next line and print Ok beneath.				
E-2.2.11.1	AL A2 + MX	Test SDTM	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-2.2.11.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit	System should display Ok beneath. (Note: On AquaLite, there is no				
			RETURN:	way to actually SET the DateTime, so it will stay set to the hosting				
			SDTM "230517010101"	computer's system clock.)				
E-2.2.11.3	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN:	System should display SN Error beneath.				
			SDTM "kkk"					
E-2.2.12.1	AL A2 + MX	Test DTM\$	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-2.2.12.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN:	System should display a string with the current date and time, formatted YYMMDDHHMMSSCC, with Ok beneath.				
			PRINT DTM\$(0)	iorniatied friviivioonniviivissee, with ox beneath.				
E-2.2.12.3	AL A2 + MX	1	From the USB BASIC command screen type the code below and hit	System should display a string with the current date and time,				
			RETURN:	formatted YYYY-MM-DD HH:MM:SS, with Ok beneath. Note that the				
			PRINT DTM\$(1)	Century is assumed to be 20, and the hours are in 24 hour format.				
E-2.2.12.4	AL A2 + MX	1	From the USB BASIC command screen type the code below and hit	System should display a string with the current date, formatted YYYY-				
			RETURN:	MM-DD, with Ok beneath. Note that the Century is assumed to be 20.				
500105			PRINT LEFT\$ (DTM\$ (1), 10)					
E-2.2.12.5	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN:	System should display a string with the current time, formatted HH:MM:SS, with Ok beneath. Note that the hours are in 24 hour				
			PRINT RIGHT (DTM\$ (1),8))	format.				
E-2.2.13.1	AL A2 + MX	Test VER	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-2.2.13.2	A1 A2 - BAV		Franch - UCD DACIC	Contact the cold display 0403 with Olybers the				
E-2.2.13.2	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN:	System should display 0103, with Ok beneath.				
			PRINT HEX\$ (VER(0))					
E-2.2.13.3	AL A2 + MX		From the USB BASIC command screen type the code below and hit	System should display 1, with Ok beneath.				
			RETURN: PRINT VAL(LEFT\$(HEX\$(VER(0)),2))					
E-2.2.13.4	AL A2 + MX		From the USB BASIC command screen type the code below and hit	System should display 3, with Ok beneath.				
			RETURN:					
			PRINT VAL(RIGHT\$(HEX\$(VER(0)),2))					
E-2.2.14.1	AL A2 + MX	Test DEF FN / FN	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-2.2.14.2	AL A2 + MX		From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-2.2.14.3	AL A2 + MX		From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty				
			RETURN after each line: 10 DEF FN A(X) = X+7	line beneath.				
			10 DEF FN A(X) = X+7 20 PRINT FN A(9)					
			30 PRINT FN A(20)					
E-2.2.14.4	AL A2 + MX]	From the USB BASIC command screen type RUN and hit RETURN	System should print 16 on one line, 27 beneath it, with Ok beneath the				
5 2 2 4 4 5	AL A2 - A61		Form the USD DAGIC command command to the and the control of the Command command to the control of the Command command to the control of the Command command to the control of the Command command to the control of the Command command to the control of the Command command to the control of the Command command to the Command command to the Command command to the Command command to the Command command to the Command command to the Command command to the Command command command to the Command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command command c	27.				
E-2.2.14.5	AL A2 + MX		From the USB BASIC command screen type the code below and hit RETURN:	System should print 14, with Ok beneath.				
			PRINT FN A(7)					
E-2.2.15	AL A2 + MX	TESTING COMPLETE	From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				
			RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on				
			DI FACE CONTINUE	the next line with a cursor below.	6			
			PLEASE CONTINUE	EVEN IF ALL TESTS IN THIS SECTION DID NOT PAS	٥.			



Alpha Test Plan	Tester Name:	
USB BASIC v1.3	Date Completed:	
E3	Environment(s) Tested:	AquaLite S1 + Micro Expander Option

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-3.0.0	AL S1 + MX	Setup AquaLite v1.36						
E-3.0.1	AL S1 + MX		Download & install AquaLite v1.36 from https://aquarius.je/aqualite (unzip files)	AquaLite v1.36 is downloaded and installed on your system.				
E-3.0.2	AL S1 + MX			System should boot into "BASIC Press RETURN key to start" flashing screen. Menubar should say AquaLite v1.36 .				
E-3.0.3	ALS1 + MX		Within AquaLite v1.36, go to menu option Tool > Options, select the Hardware tab, and make sure Aquarius I is selected in the Model section, and select Aquarius S1 ROM in the ROM section. Click Ok.	System should beep and reboot.				
E-3.0.4	ALS1 + MX		Within AquaLite v1.36, go to menu option Tool > Options, select the Peripherals tab, and make sure Micro Expander is checked. Click Ok.	System should beep and reboot.				
E-3.0.5	AL S1 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-3.0.6	ALS1 + MX		Press the A key within the emulator.	The "About USB BASIC" screen should be displayed.				
E-3.0.7	ALS1 + MX		Press any key to exit the About screen.	The "Aquarius USB BASIC, v1.3" screen should be displayed.				
E-3.0.8	ALS1 + MX		Press RETURN/ENTER key to go to the USB BASIC command screen . Note: This screen is the starting point for most tests in this plan.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
		DO NO	OT CONTINUE IF ANY TESTS IN THIS SECTION DID I	NOT PASS! CONTACT THE TESTING COORDINATO	R, Sean Harrington sph@1stage.com.	•		

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-3.1.0	ALS1 + MX	Test legacy commands						
E-3.1.1.1	AL S1 + MX	Test CALL xx	From the USB BASIC command screen type CALL \$8000 and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-3.1.1.2	AL S1 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-3.1.1.3	AL S1 + MX		From the USB BASIC command screen type CALL -32768 and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-3.1.1.4	AL S1 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-3.1.1.5	AL S1 + MX		From the USB BASIC command screen type CALL 32768 (NO minus sign!) and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-3.1.1.6	ALS1 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-3.1.2	AL S1 + MX	Test CAT		System should display a brief listing of the contents of the USB folder within the AquaLite program folder, followed by Ok beneath. Note that the contents can vary from system to system.				
E-3.1.3.1	AL S1 + MX	Test CD	From the USB BASIC command screen type CD and hit RETURN	The cursor should move down one row, and a / character should be displayed, followed by Ok beneath.				
E-3.1.3.2	AL S1 + MX		From the USB BASIC command screen type CD"ROMS" and hit RETURN	The cursor should move down one row and display Ok beneath.				
E-3.1.4	AL S1 + MX	Test DIR		System should display a detailed listing of the contents of the USB > ROMS folder within the Aqualite program folder, followed by Ok beneath. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-3.1.5.1	AL S1 + MX	Test CLS	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok in black letters on a cyan				
				background.				
E-3.1.5.2	AL S1 + MX		From the USB BASIC command screen type CLS 8 and hit RETURN	System should clear the screen and show Ok in black letters on a grey background.				
E-3.1.5.3	ALS1 + MX		From the USB BASIC command screen type CLS \$7D and hit RETURN					
				green background.				
E-3.1.5.4	AL S1 + MX		From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok in black letters on a cyan background.				
E-3.1.6.1	AL S1 + MX	Test SAVE a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
52462	AL CA - NAV		Franch LICD DACIC	Control of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta				
E-3.1.6.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit RETURN after each line:	System should show each line typed, and move down to the empty line beneath.				
			10 REM Testing SAVE					
			20 CLS 30 PRINT "Hello"					
E-3.1.6.3	AL S1 + MX		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program and display Ok				
				beneath.				
E-3.1.6.4	AL S1 + MX		From the USB BASIC command screen type SAVE "TEST01.BAS" and hit RETURN	The cursor should move down one row and display Ok beneath. In the USB > ROMS folder within the AquaLite program folder, there should				
			and me ner out	be a new file named TEST01.BAS.				
52465	AL CA - NAV		Faces the USD DAGIC command areas to a CAM and his DETUDAL	Control of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta				
E-3.1.6.5	AL S1 + MX		From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the folder, and the "TEST01.BAS" file should be lised among those files. Note that the				
				RETURN/ENTER key may have to be pressed one or more times to				
				scroll through the full list of contents.				
E-3.1.7.1	AL S1 + MX	Test LOAD a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
50470	11.54 1.07		5 11 1100 01010					
E-3.1.7.2	AL S1 + MX		From the USB BASIC command screen type LIST and hit RETURN	System should display NO PROGRAM LINES with Ok beneath.				
E-3.1.7.3	AL S1 + MX		From the USB BASIC command screen type LOAD "TEST01.BAS"	System should display Ok beneath.				
E-3.1.7.4	AL S1 + MX		and hit RETURN From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program listed in test E-				
L-3.1.7.4	AL 31 + IVIX		From the OSB BASIC Command Screen type LIST and the KETOKN	3.1.6.2 and display Ok beneath.				
E-3.1.8.1	AL S1 + MX	Test RUN a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-3.1.8.2	AL S1 + MX		From the USB BASIC command screen type RUN "TEST01.BAS"	System should clear the screen, print Hello at the top, and display Ok				
			and hit RETURN	beneath.				
E-3.1.9.1	AL S1 + MX	Test DEL	From the USB BASIC command screen type DEL "TEST01.BAS" and hit RETURN	System should display Ok beneath.				
E-3.1.9.2	AL S1 + MX		From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the folder, and				
				the "TEST01.BAS" file SHOULD NOT be lised among those files. Note				
				that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				
				times to scroll allough the full list of contents.				
E-3.1.10.1	ALS1 + MX	Test SAVE a BIN file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-3.1.10.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty				
			RETURN after each line:	line beneath.				
			10 REM Testing SAVE BIN 20 POKE \$8000,97,98,99,100					
			30 PRINT "Done"					
E-3.1.10.3	ALS1 + MX		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program and display Ok				
E-3.1.10.4	ALS1 + MX		From the USB BASIC command screen type RUN and hit RETURN	beneath. System should print Done and display Ok beneath the program listing.				
			**					
E-3.1.10.5	ALS1 + MX		From the USB BASIC command screen type CD "/" and hit RETURN	System should display Ok beneath.				
E-3.1.10.6	AL S1 + MX		From the USB BASIC command screen type the code below and hit	System should display Ok beneath.				
			RETURN: SAVE "POKE.BIN", \$8000, 4					
E-3.1.10.7	ALS1 + MX		From the USB BASIC command screen type DIR and hit RETURN	System should display a detailed listing of the contents of the USB				
				folder within the AquaLite program folder, and the file named				
				"POKE.BIN" should be listed in the contents. Note that the RETURN/ENTER key may have to be pressed one or more times to				
				scroll past the full list of contents.		_		_
E-3.1.11.1	AL S1 + MX	Test LOAD a BIN file	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-3.1.11.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit	System should display abcd in the middle of the screen, with Ok				
			RETURN:	beneath the text you just typed.				
		I	LOAD "POKE.BIN", \$3242	L	<u> </u>			

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-3.1.12.1	AL S1 + MX	Test RUN a ROM file	From the AquaLite menu, select File > Hard Reset, and then hit the	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next				i -
			RETURN/ENTER key to go to USB BASIC.	line with a cursor below.				
E-3.1.12.2	ALS1 + MX		From the USB BASIC command screen type CD"ROMS" and hit RETURN	The cursor should move down one row and display Ok beneath.				<u> </u>
E-3.1.12.3	AL S1 + MX		From the USB BASIC command screen type the code below and hit	System should load the SNAFU game ROM and display the SNAFU title				1
			RETURN: RUN "SNAFU.ROM"	screen.				<u> </u>
E-3.1.12.4	AL S1 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				<u> </u>
E-3.1.13.1	ALS1 + MX	Test DEBUG	From the USB BASIC command screen type DEBUG and hit RETURN	The AQUBUG screen should pop up with white text on a blue background.				1
E-3.1.13.2	AL S1 + MX		On the AQUBUG screen type the letter Q	System should return to the USB BASIC command screen, showing the DEBUG command with Ok beneath.				
E-3.1.14.1	AL S1 + MX	Test HEX\$	From the USB BASIC command screen type the code below and hit	System should display 3000 on the next line with Ok beneath.				
			RETURN: PRINT HEX\$(12288)					
E-3.1.14.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit	System should display FF85 on the next line with Ok beneath.				1
			RETURN: PRINT HEX\$(-123)					<u> </u>
E-3.1.14.3	AL S1 + MX		From the USB BASIC command screen type the code below and hit	System should display FFFF on the next line with Ok beneath.				1
			RETURN: PRINT HEX\$(65535)					
E-3.1.15	ALS1 + MX	Test JOY	From the USB BASIC command screen type the code below and try to	System should display 64 on the next line with Ok beneath. If you				i
			type RETURN and the 1 key at about the same time (maybe a slight delay before the 1 key):	weren't able to get it to work exactly right, a 0 might be displayed instead of the 64. Try a couple of times to get it to work, if you can.				1
			PRINT JOY(0)	instead of the 64. Try a couple of times to get it to work, if you can.				1
E-3.1.16	ALS1 + MX	Test IN	From the USB BASIC command screen type the code below and hit	System should display 247 on the next line with Ok beneath.				1
			RETURN: PRINT IN(\$FF)					
E-3.1.17.1	AL S1 + MX	Test PSG	From the USB BASIC command screen type the code below and hit	System should play a Db4 tone continuously.				
			RETURN: PSG 8,15,0,148,1,1,7,56					
E-3.1.17.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit	System should stop playing the tone.				1
			RETURN: PSG 8,0,7,0					1
E-3.1.18.1	AL S1 + MX	Test OUT	From the USB BASIC command screen type the code below and hit	System should play a Db4 tone continuously and print Ok beneath.				
			RETURN: PSG 8,15,0,148,1,1,7,56					
E-3.1.18.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit	System should print Ok after each RETURN, and then should stop				
			RETURN after each line: OUT 247,8	playing the tone after the second.				1
			OUT 247,8 OUT \$F6,0					<u> </u>
E-3.1.19.1	AL S1 + MX	Test EDIT	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-3.1.19.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty				
			RETURN: 10 REM Testing EDIT	line beneath.				
E-3.1.19.3	AL S1 + MX		From the USB BASIC command screen type the code below and hit	System should list the previously entered line 10 with a blue cursor				i
			RETURN: EDIT 10	and white text positioned over the R in the REM command.				
E-3.1.19.4	ALS1 + MX		Within the line 10 edit with the cursor on the R of REM, press the	System should display line 10 with a SPACE between the 10 and the				
			SPACE bar to insert a space between the line number 10 and the REM statement.	REM command.				
E-3.1.19.5	ALS1 + MX		Within the line 10 edit with the cursor on the R of REM, CTRL +/	System should list the previously entered line 10 with a blue cursor				
			eleven times so the cursor is on top of the SPACE after the word	and white text positioned over the SPACE after the word Testing.				1
E-3.1.19.6	ALS1 + MX		Testing. Within the line 10 edit with the cursor on the SPACE between the	System should list the previously entered line 10 with a blue cursor				
_ 5.1.15.0	. 12.02 . 111/4		word Testing and EDIT, press the DELETE/BACKSPACE key three times	and white text positioned over the SPACE before the word EDIT.				1
			to delete the letters "ing" at the end of the word Testing.					
E-3.1.19.7	ALS1 + MX		Within the line 10 edit with the cursor on the SPACE between the	The cursor should go to the line beneath line 10, and should NOT				
l			word Test and EDIT, press CTRL + P eight times so the cursor is over	display Ok beneath.				i '
			the letter R in REM, and then hit RETURN/ENTER.					1
E-3.1.19.8	AL S1 + MX		From the USB BASIC command screen type the code below and hit	System should display a blank line, then list line 10 again, with Ok				
l			RETURN:	beneath.				i '
			LIST 10					

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-3.1.20.1	AL S1 + MX	Test LOCATE	From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty				
			RETURN after each line:	line beneath.				
			10 CLS					
			20 LOCATE 20,12					
			30 PRINT CHR\$(KEY(0))					
E-3.1.20.2	ALS1 + MX		From the USB BASIC command screen type RUN and hit RETURN	System should move the cursor to the middle of the screen.				
E-3.1.20.3	ALS1 + MX		With the cursor in the middle of the screen, press the G key.	System should display a "g" in the middle of the screen, then go to the				
				next line and print Ok beneath.				
E-3.1.20.4	AL S1 + MX		From the AquaLite menu, select File > Hard Reset, and then hit the	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next				
			RETURN/ENTER key to go to USB BASIC.	line with a cursor below.				1
	l	L	, , ,	EVEN IE ALL TESTS IN THIS SECTION DID NOT PAS				_

New Comm								
Test No	Environment	•	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-3.2.0	ALS1 + MX	Test NEW commands						
E-3.2.1.1	AL S1 + MX	Test POKE auto-increment	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				Į.
E-3.2.1.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit	The screen should print abcd in a row towards the middle bottom of				
-			RETURN:	the screen.				1
			POKE 12945,97,98,99,100					
E-3.2.2.1	AL S1 + MX	Test POKE range	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-3.2.2.2	AL S1 + MX	1	From the USB BASIC command screen type the code below and hit	The screen should print aaaaaaaaa (nine letter a's) in a row towards				
			RETURN:	the middle bottom of the screen.				
			POKE \$3291 TO \$3299,97					
E-3.2.3.1	AL S1 + MX	Test POKE step	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-3.2.3.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit	The screen should print aaa (three letter a's) in a downward line at the				†
L 3.2.3.2	712.02 - 1117		RETURN:	middle bottom of the screen.				
			POKE \$3291,97,STEP 40,97,STEP 40,97	initial contain of the street.				
E-3.2.4.1	AL S1 + MX	Test POKE strings	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				†
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,				
E-3.2.4.2	AL S1 + MX	1	From the USB BASIC command screen type the code below and hit	The screen should print the words Hubba Bubba stacked on top of				i e
			RETURN:	each other at the middle bottom of the screen.				
			POKE \$3291, "Hubba", STEP 40, "Bubba"					
E-3.2.5.1	AL S1 + MX	Test COPY	From the AquaLite menu, select File > Hard Reset, and then hit the	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next				
			RETURN/ENTER key to go to USB BASIC.	line with a cursor below.				
E-3.2.5.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit	The text at the top of the screen ("USB BASIC v1.3" should be				
			RETURN:	duplicated in the middle of the screen, with the Ok beneath the COPY				
			COPY \$3000,\$3000+440,120	command near the top.				
E-3.2.6.1	AL S1 + MX	Test ATN	From the AquaLite menu, select File > Hard Reset, and then hit the	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next				
			RETURN/ENTER key to go to USB BASIC.	line with a cursor below.				
E-3.2.6.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit	System should display .785398 on the next line with Ok beneath.				
			RETURN:					
			PRINT ATN(1)					
E-3.2.7.1	AL S1 + MX	Test DEC	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
		4						
E-3.2.7.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit	System should display 22015 on the next line with Ok beneath.				
			RETURN: PRINT DEC("55FF")					
50001	41.64.447							
E-3.2.8.1	AL S1 + MX	Test DEEK	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .		1		1
52202	A1 C4 - A4"	4	Form the LICE DACIC commend control to the code ! !	Contains the old display CDAP on the containing of the Old Charles		ļ		
E-3.2.8.2	AL S1 + MX	1	From the USB BASIC command screen type the code below and hit	System should display 6B4F on the next line with Ok beneath. (\$4F is		1		1
		1	RETURN: PRINT HEX\$(DEEK(12288+41))	the "O" character and \$6B is the "k" character from the top left of the		1		1
E-3.2.9.1	AL S1 + MX	Test DOKE		screen.) System should clear the screen and show Ok .		-		
t-3.2.9.1	AL 21 + IVIX	TEST DOKE	From the USB BASIC command screen type CLS and hit RETURN	system should clear the screen and snow OK .				
E-3.2.9.2	AL S1 + MX	1	From the USB BASIC command screen type the code below and hit	System should display Hi at the top left of the screen and show Ok				
		1	RETURN:	beneath the DOKE command line. (\$48 is the "H" character and \$69 is		1		1
	<u> </u>	<u> </u>	DOKE 12288+41,\$6948	the "i" character.)		<u> </u>		l

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-3.2.10.1	ALS1 + MX	Test KEY	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-3.2.10.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 CLS 42 20 LOCATE 20,12 30 PRINT CHR\$ (KEY(0))	System should show each line typed, and move down to the empty line beneath.				
E-3.2.10.3	ALS1 + MX		From the USB BASIC command screen type RUN and hit RETURN	System should clear the screen to GREEN letters on a PURPLE background and move the GREEN cursor to the middle of the screen, waiting for input.				
E-3.2.10.4	ALS1 + MX		With the cursor in the middle of the screen, press the M key (without the SHIFT key pressed).	System should display a "m" in the middle of the screen, then go to the next line and print Ok beneath.				
E-3.2.11.1	ALS1 + MX	Test SDTM	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-3.2.11.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit RETURN: SDTM "230517010101"	System should display Ok beneath. (Note: On AquaLite, there is no way to actually SET the DateTime, so it will stay set to the hosting computer's system clock.)				
E-3.2.11.3	AL S1 + MX		From the USB BASIC command screen type the code below and hit RETURN: SDTM "kkk"	System should display SN Error beneath.				
E-3.2.12.1	ALS1 + MX	Test DTM\$	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-3.2.12.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT DTMS (0)	System should display a string with the current date and time, formatted YYMMDDHHMMSSCC, with Ok beneath.				
E-3.2.12.3	ALS1 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT DTM\$ (1)	System should display a string with the current date and time, formatted YYYY-MM-DD HH: MM:SS, with Ok beneath. Note that the Century is assumed to be 20, and the hours are in 24 hour format.				
E-3.2.12.4	AL S1 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT LEFT\$ (DTM\$ (1), 10)	System should display a string with the current date, formatted YYYY-MM-DD, with Ok beneath. Note that the Century is assumed to be 20.				
E-3.2.12.5	AL S1 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT RIGHT (DTM\$ (1) , 8)	System should display a string with the current time, formatted HH:MM:SS, with Ok beneath. Note that the hours are in 24 hour format.				
E-3.2.13.1	ALS1 + MX	Test VER	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-3.2.13.2	AL S1 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT HEXS (VER (0))	System should display 0103, with Ok beneath.				
E-3.2.13.3	AL S1 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT VAL (LEFT\$ (HEX\$ (VER(0)), 2))	System should display 1, with Ok beneath.				
E-3.2.13.4	AL S1 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT VAL (RIGHT\$ (HEX\$ (VER(0)), 2))	System should display 3, with Ok beneath.				
E-3.2.14.1	ALS1 + MX	Test DEF FN / FN	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-3.2.14.2	ALS1 + MX		From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-3.2.14.3	AL S1 + MX		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 DEF FN A(X) = X+7 20 PRINT FN A(9) 30 PRINT FN A(20)	System should show each line typed, and move down to the empty line beneath.				
E-3.2.14.4	ALS1 + MX		From the USB BASIC command screen type RUN and hit RETURN	System should print 16 on one line, 27 beneath it, with Ok beneath the 27.				
E-3.2.14.5	AL S1 + MX		From the USB BASIC command screen type the code below and hit RETURN: PRINT FN A (7)	System should print 14, with Ok beneath.				
E-3.2.15	ALS1 + MX	TESTING COMPLETE	From the Aqualite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
				EVEN IF ALL TESTS IN THIS SECTION DID NOT PAS	S.			



Alpha Test Plan	Tester Name:	
USB BASIC v1.3	Date Completed:	
E4	Environment(s) Tested:	Hardware S2 + Aquarius MX with RTC

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-4.0.0	HW S2 + MX RTC	Setup Hardware MX + RTC						ľ
E-4.0.1	HW S2 + MX RTC		Download & update MX EPROM to v1.3 (64k)	MX ROM is updated to v1.3				
E-4.0.2	HW S2 + MX RTC		Ensure hardware update to RTC socket has been completed.	MX board should be ready to use RTC unit.				[
E-4.0.3	HW S2 + MX RTC		Remove 32k RAM and replace with Dallas DS1244Y DIP RTC unit.	MX board should have the RTC installed in place of RAM.				[
E-4.0.4	HW S2 + MX RTC		Install MX unit and boot Aquarius.	The "Aquarius USB BASIC, v1.3" screen should be displayed.				[
E-4.0.5	HW S2 + MX RTC		Press the A key within the emulator.	The "About USB BASIC" screen should be displayed.				[
E-4.0.6	HW S2 + MX RTC		Press any key to exit the About screen.	The "Aquarius USB BASIC, v1.3" screen should be displayed.				[
E-4.0.7	HW S2 + MX RTC		Press RETURN/ENTER key to go to the USB BASIC command screen.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				ĺ
			Note: This screen is the starting point for most tests in this plan.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on				i
				the next line with a cursor below.				1
		DO NO	OT CONTINUE IF ANY TESTS IN THIS SECTION DID	NOT PASS! CONTACT THE TESTING COORDINATOR	R, Sean Harrington sph@1stage.com.			

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-4.1.0	HW S2 + MX RTC	Test legacy commands						
E-4.1.1.1	HW S2 + MX RTC	Test CALL xx	From the USB BASIC command screen type CALL \$8000 and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-4.1.1.2	HW S2 + MX RTC		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-4.1.1.3	HW S2 + MX RTC		From the USB BASIC command screen type CALL -32768 and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-4.1.1.4	HW S2 + MX RTC		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-4.1.1.5	HW S2 + MX RTC		From the USB BASIC command screen type CALL 32768 (NO minus sign!) and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-4.1.1.6	HW S2 + MX RTC		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-4.1.2	HW S2 + MX RTC	Test CAT	From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the USB folder within the AquaLite program folder, followed by Ok beneath. Note that the contents can vary from system to system.				
E-4.1.3.1	HW S2 + MX RTC	Test CD	From the USB BASIC command screen type CD and hit RETURN	The cursor should move down one row, and a / character should be displayed, followed by Ok beneath.				
E-4.1.3.2	HW S2 + MX RTC		From the USB BASIC command screen type CD"ROMS" and hit RETURN	The cursor should move down one row and display Ok beneath.				
E-4.1.4	HW S2 + MX RTC	Test DIR	From the USB BASIC command screen type DIR and hit RETURN	System should display a detailed listing of the contents of the USB > ROMS folder within the Aqualite program folder, followed by Ok beneath. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				
E-4.1.5.1	HW S2 + MX RTC	Test CLS	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok in black letters on a cyan background.				
E-4.1.5.2	HW S2 + MX RTC		From the USB BASIC command screen type CLS 8 and hit RETURN	System should clear the screen and show Ok in black letters on a grey background.				
E-4.1.5.3	HW S2 + MX RTC		From the USB BASIC command screen type CLS \$7D and hit RETURN	System should clear the screen and show Ok in white letters on a dark green background.				
E-4.1.5.4	HW S2 + MX RTC		From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok in black letters on a cyan background.				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-4.1.6.1	HW S2 + MX RTC	Test SAVE a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-4.1.6.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE 20 CLS 30 PRINT "Hello"	System should show each line typed, and move down to the empty line beneath.				
E-4.1.6.3	HW S2 + MX RTC		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program and display Ok				
E-4.1.6.4	HW S2 + MX RTC		From the USB BASIC command screen type SAVE "TEST01.BAS" and hit RETURN	beneath. The cursor should move down one row and display Ok beneath. In the USB > ROMS folder within the AquaLite program folder, there should be a new file named TEST01.BAS.				
E-4.1.6.5	HW S2 + MX RTC		From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the folder, and the "TESTO1.BAS" file should be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				
E-4.1.7.1	HW S2 + MX RTC	Test LOAD a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-4.1.7.2	HW S2 + MX RTC		From the USB BASIC command screen type LIST and hit RETURN	System should display NO PROGRAM LINES with Ok beneath.				
E-4.1.7.3	HW S2 + MX RTC		From the USB BASIC command screen type LOAD "TEST01.BAS" and hit RETURN	System should display Ok beneath.				
E-4.1.7.4	HW S2 + MX RTC		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program listed in test E- 4.1.6.2 and display Ok beneath.				
E-4.1.8.1	HW S2 + MX RTC	Test RUN a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-4.1.8.2	HW S2 + MX RTC		From the USB BASIC command screen type RUN "TEST01.BAS" and hit RETURN	System should clear the screen, print Hello at the top, and display Ok beneath.				
E-4.1.9.1	HW S2 + MX RTC	Test DEL	From the USB BASIC command screen type DEL "TEST01.BAS" and hit RETURN	System should display Ok beneath.				
E-4.1.9.2	HW S2 + MX RTC		From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the folder, and the "TESTO.18AS" file SHOULD NOT be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				
E-4.1.10.1	HW S2 + MX RTC	Test SAVE a BIN file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-4.1.10.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE BIN 20 POKE \$8000,97,98,99,100 30 PRINT "Done"	System should show each line typed, and move down to the empty line beneath.				
E-4.1.10.3	HW S2 + MX RTC		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program and display Ok beneath.				
E-4.1.10.4	HW S2 + MX RTC		From the USB BASIC command screen type RUN and hit RETURN	System should print Done and display Ok beneath the program listing.				
E-4.1.10.5	HW S2 + MX RTC		From the USB BASIC command screen type CD "/" and hit RETURN	System should display Ok beneath.				
E-4.1.10.6	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: SAVE "POKE.BIN", \$8000, 4	System should display Ok beneath.				
E-4.1.10.7	HW S2 + MX RTC		From the USB BASIC command screen type DIR and hit RETURN	System should display a detailed listing of the contents of the USB folder within the AquaLite program folder, and the file named "POKE.BIN" should be listed in the contents. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll past the full list of contents.				
E-4.1.11.1	HW S2 + MX RTC	Test LOAD a BIN file	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-4.1.11.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: LOAD "POKE.BIN", \$3242	System should display abcd in the middle of the screen, with Ok beneath the text you just typed.				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-4.1.12.1	HW S2 + MX RTC	Test RUN a ROM file	From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				
			RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-4.1.12.2	HW S2 + MX RTC		From the USB BASIC command screen type CD"ROMS" and hit	The cursor should move down one row and display Ok beneath.				\vdash
			RETURN	,,				
E-4.1.12.3	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should load the SNAFU game ROM and display the SNAFU title				
			RETURN: RUN "SNAFU.ROM"	screen.				
E-4.1.12.4	HW S2 + MX RTC		From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				\vdash
			RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on				
				the next line with a cursor below.				
E-4.1.13.1	HW S2 + MX RTC	Test DEBUG	From the USB BASIC command screen type DEBUG and hit RETURN	The AQUBUG screen should pop up with white text on a blue background.				
E-4.1.13.2	HW S2 + MX RTC		On the AQUBUG screen type the letter Q	System should return to the USB BASIC command screen, showing the				\vdash
			2	DEBUG command with Ok beneath.				
E-4.1.14.1	HW S2 + MX RTC	Test HEX\$	From the USB BASIC command screen type the code below and hit	System should display 3000 on the next line with Ok beneath.				
			RETURN: PRINT HEX\$(12288)					
E-4.1.14.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should display FF85 on the next line with Ok beneath.				
			RETURN:	,,,,,				
			PRINT HEX\$(-123)					
E-4.1.14.3	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN:	System should display FFFF on the next line with Ok beneath.				
			PRINT HEX\$(65535)					
E-4.1.15	HW S2 + MX RTC	Test JOY	From the USB BASIC command screen type the code below and try to	System should display 64 on the next line with Ok beneath. If you				
			type RETURN and the 1 key at about the same time (maybe a slight	weren't able to get it to work exactly right, a 0 might be displayed				
			delay before the 1 key): PRINT JOY(0)	instead of the 64. Try a couple of times to get it to work, if you can.				
E-4.1.16	HW S2 + MX RTC	Test IN	From the USB BASIC command screen type the code below and hit	System should display 247 on the next line with Ok beneath.				\vdash
			RETURN:					
			PRINT IN(\$FF)					
E-4.1.17.1	HW S2 + MX RTC	Test PSG	From the USB BASIC command screen type the code below and hit RETURN:	System should play a Db4 tone continuously.				
			PSG 8,15,0,148,1,1,7,56					
E-4.1.17.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should stop playing the tone.				
			RETURN:					
E-4.1.18.1	HW S2 + MX RTC	Tost OUT	PSG 8, 0, 7, 0 From the USB BASIC command screen type the code below and hit	System should play a Db4 tone continuously and print Ok beneath.				
E-4.1.16.1	HW 32 + WIX KTC	Test 001	RETURN:	system should play a 204 tone continuously and print ok beneath.				
			PSG 8,15,0,148,1,1,7,56					
E-4.1.18.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should print Ok after each RETURN, and then should stop				
			RETURN after each line: OUT 247,8	playing the tone after the second.				
			OUT \$F6,0					
E-4.1.19.1	HW S2 + MX RTC	Test EDIT	From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				
			RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on				
E-4.1.19.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	the next line with a cursor below. System should show each line typed, and move down to the empty				
L-4.1.13.Z	TIVE 32 TIVIA RIC		RETURN:	line beneath.				1
			10 REM Testing EDIT					
E-4.1.19.3	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should list the previously entered line 10 with a blue cursor				
			RETURN: EDIT 10	and white text positioned over the R in the REM command.				
E-4.1.19.4	HW S2 + MX RTC		Within the line 10 edit with the cursor on the R of REM, press the	System should display line 10 with a SPACE between the 10 and the				\vdash
			SPACE bar to insert a space between the line number 10 and the REM	REM command.				1
F 4 4 4 2 F	104/62 - 14/25		statement.	Control should list the annula solution of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Cont				└─ ─
E-4.1.19.5	HW S2 + MX RTC		Within the line 10 edit with the cursor on the R of REM, CTRL + / eleven times so the cursor is on top of the SPACE after the word	System should list the previously entered line 10 with a blue cursor and white text positioned over the SPACE after the word Testing.				1
			Testing.	and the positioned over the Strate after the word resting.				1
E-4.1.19.6	HW S2 + MX RTC		Within the line 10 edit with the cursor on the SPACE between the	System should list the previously entered line 10 with a blue cursor				
			word Testing and EDIT, press the DELETE/BACKSPACE key three times	and white text positioned over the SPACE before the word EDIT.				
			to delete the letters "ing" at the end of the word Testing.					1
E-4.1.19.7	HW S2 + MX RTC		Within the line 10 edit with the cursor on the SPACE between the	The cursor should go to the line beneath line 10, and should NOT				\vdash
			word Test and EDIT, press CTRL + P eight times so the cursor is over	display Ok beneath.				1
			the letter R in REM, and then hit RETURN/ENTER.					
E-4.1.19.8	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should display a blank line, then list line 10 again, with Ok				++
2 7.1.13.0	JZ · WIX KIC		RETURN:	beneath.				1
			LIST 10					1

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-4.1.20.1	HW S2 + MX RTC	Test LOCATE	From the USB BASIC command screen type the code below and hit RETURN after each line: 10 CLS 20 LOCATE 20,12 30 PRINT CHR\$ (KEY(0))	System should show each line typed, and move down to the empty line beneath.				
E-4.1.20.2	HW S2 + MX RTC		From the USB BASIC command screen type RUN and hit RETURN	System should move the cursor to the middle of the screen.				
E-4.1.20.3	HW S2 + MX RTC		With the cursor in the middle of the screen, press the G key.	System should display a "g" in the middle of the screen, then go to the next line and print Ok beneath.				
E-4.1.20.4	HW S2 + MX RTC		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
			PLEASE CONTINUE	EVEN IF ALL TESTS IN THIS SECTION DID NOT PAS	S.			

New Com								
Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-4.2.0	HW S2 + MX RTC	Test NEW commands						
E-4.2.1.1	HW S2 + MX RTC	Test POKE auto-increment	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-4.2.1.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: POKE 12945, 97, 98, 99, 100	The screen should print abcd in a row towards the middle bottom of the screen.				
E-4.2.2.1	HW S2 + MX RTC	Test POKE range	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-4.2.2.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291 TO \$3299,97	The screen should print aaaaaaaaa (nine letter a's) in a row towards the middle bottom of the screen.				
E-4.2.3.1	HW S2 + MX RTC	Test POKE step	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-4.2.3.2	HW S2 + MX RTC	-	From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291,97,STEP 40,97,STEP 40,97	The screen should print aaa (three letter a's) in a downward line at the middle bottom of the screen.				
E-4.2.4.1	HW S2 + MX RTC	Test POKE strings	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-4.2.4.2	HW S2 + MX RTC	-	From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291, "Hubba", STEP 40, "Bubba"	The screen should print the words Hubba Bubba stacked on top of each other at the middle bottom of the screen.				
E-4.2.5.1	HW S2 + MX RTC	Test COPY	From the Aqualite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-4.2.5.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: COPY \$3000,\$3000+440,120	The text at the top of the screen ("Copyright © 1982 by Microsoft, Inc 52" & "USB BASIC v1.3" should be duplicated in the middle of the screen, with the Ok beneath the COPY command near the top.				
E-4.2.6.1	HW S2 + MX RTC	Test ATN	From the Aqualite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-4.2.6.2	HW S2 + MX RTC	1	From the USB BASIC command screen type the code below and hit RETURN: PRINT ATN (1)	System should display .785398 on the next line with Ok beneath.				
E-4.2.7.1	HW S2 + MX RTC	Test DEC	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-4.2.7.2	HW S2 + MX RTC	-	From the USB BASIC command screen type the code below and hit RETURN: PRINT DEC("55FF")	System should display 22015 on the next line with Ok beneath.				
E-4.2.8.1	HW S2 + MX RTC	Test DEEK	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-4.2.8.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (DEEK (12288+41))	System should display 684F on the next line with Ok beneath. (\$4F is the "O" character and \$6B is the "k" character from the top left of the screen.)				
E-4.2.9.1	HW S2 + MX RTC	Test DOKE	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-4.2.9.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: DOKE 12288+41,\$6948	System should display Hi at the top left of the screen and show Ok beneath the DOKE command line. (\$48 is the "H" character and \$69 is the "i" character.)				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-4.2.10.1	HW S2 + MX RTC	Test KEY	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-4.2.10.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty				
			RETURN after each line: 10 CLS 42	line beneath.				
			20 LOCATE 20,12					
E-4.2.10.3	HW S2 + MX RTC		30 PRINT CHR\$ (KEY(0)) From the USB BASIC command screen type RUN and hit RETURN	System should clear the screen to GREEN letters on a PURPLE				_
E-4.2.10.3	HW 32 + WIX RTC		From the OSB BASIC Command screen type RON and the RETORN	background and move the GREEN cursor to the middle of the screen,				
				waiting for input.				
E-4.2.10.4	HW S2 + MX RTC		With the cursor in the middle of the screen, press the M key (without the SHIFT key pressed).	System should display a "m" in the middle of the screen, then go to the next line and print Ok beneath.				
E-4.2.11.1	HW S2 + MX RTC	Test SDTM	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-4.2.11.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should display Ok beneath.				
			RETURN, replacing "YYMMDDHHMMSS" with the current DateTime settings:					
			SDTM "YYMMDDHHMMSS"					
E-4.2.11.3	HW S2 + MX RTC		From the AquaLite menu, select File > Hard Reset.	The "Aquarius USB BASIC, v1.3" screen should be displayed with the				
				correct date and time shown at the bottom of the screen, with seconds ticking by.				
E-4.2.12.1	HW S2 + MX RTC	Test DTM\$	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-4.2.12.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should display a string with the current date and time,				
			RETURN: PRINT DTM\$(0)	formatted YYMMDDHHMMSSCC, with Ok beneath.				
E-4.2.12.3	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should display a string with the current date and time,				
			RETURN: PRINT DTM\$(1)	formatted YYYY-MM-DD HH:MM:SS, with Ok beneath. Note that the Century is assumed to be 20, and the hours are in 24 hour format.				
				,				
E-4.2.12.4	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN:	System should display a string with the current date, formatted YYYY- MM-DD, with Ok beneath. Note that the Century is assumed to be 20.				
			PRINT LEFT\$(DTM\$(1),10)	Mini-bb, with ox beneath. Note that the century is assumed to be 20.				
E-4.2.12.5	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should display a string with the current time, formatted				
			RETURN: PRINT RIGHT(DTM\$(1),8))	HH:MM:SS, with Ok beneath. Note that the hours are in 24 hour format.				
E-4.2.13.1	HW S2 + MX RTC	Test VER	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-4.2.13.2	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should display 0103, with Ok beneath.				
			RETURN: PRINT HEX\$(VER(0))					
E-4.2.13.3	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should display 1, with Ok beneath.				
			RETURN: PRINT VAL(LEFT\$(HEX\$(VER(0)),2))					
E-4.2.13.4	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should display 3, with Ok beneath.				
			RETURN: PRINT VAL(RIGHT\$(HEX\$(VER(0)),2))					
E-4.2.14.1	HW S2 + MX RTC	Test DEF FN / FN	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-4.2.14.2	HW S2 + MX RTC		From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-4.2.14.3	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty				
2 7.2.17.3	32 · WA NIC		RETURN after each line:	line beneath.				
			10 DEF FN A(X) = X+7 20 PRINT FN A(9)					
			30 PRINT FN A(20)					
E-4.2.14.4	HW S2 + MX RTC		From the USB BASIC command screen type RUN and hit RETURN	System should print 16 on one line, 27 beneath it, with Ok beneath the 27.	2			
E-4.2.14.5	HW S2 + MX RTC		From the USB BASIC command screen type the code below and hit	System should print 14, with Ok beneath.		Ì		
			RETURN: PRINT FN A(7)					
E-4.2.15	HW S2 + MX RTC	TESTING COMPLETE	From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				
			RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
			PLEASE CONTINUE	EVEN IF ALL TESTS IN THIS SECTION DID NOT PAS	S.	1		



Alpha Test Plan

USB BASIC v1.3

Environment(s) Tested:

Hardware S2 + Aquarius MX NO RTC

Setup

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time		
E-5.0.0	HW S2 + NO RTC	Setup Hardware MX + RTC								
E-5.0.1	HW S2 + NO RTC		Download & update MX EPROM to v1.3 (64k)	MX ROM is updated to v1.3						
E-5.0.2	HW S2 + NO RTC		Install MX unit and boot Aquarius.	The "Aquarius USB BASIC, v1.3" screen should be displayed.				ĺ		
E-5.0.3	HW S2 + NO RTC		Press the A key within the emulator.	The "About USB BASIC" screen should be displayed.				ĺ		
E-5.0.4	HW S2 + NO RTC		Press any key to exit the About screen.	The "Aquarius USB BASIC, v1.3" screen should be displayed.				1		
E-5.0.5	HW S2 + NO RTC		Press RETURN/ENTER key to go to the USB BASIC command screen.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				1		
			Note: This screen is the starting point for most tests in this plan.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on				i l		
				the next line with a cursor below.				i		
	DO NOT CONTINUE IF ANY TESTS IN THIS SECTION DID NOT PASS! CONTACT THE TESTING COORDINATOR, Sean Harrington sph@1stage.com.									

Test No		Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-5.1.0	HW S2 + NO RTC	Test legacy commands						
E-5.1.1.1	HW S2 + NO RTC	Test CALL xx	From the USB BASIC command screen type CALL \$8000 and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-5.1.1.2	HW S2 + NO RTC		From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				
			RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on				
				the next line with a cursor below.				
E-5.1.1.3	HW S2 + NO RTC		From the USB BASIC command screen type CALL -32768 and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-5.1.1.4	HW S2 + NO RTC		From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				
			RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on				
				the next line with a cursor below.				
E-5.1.1.5	HW S2 + NO RTC		From the USB BASIC command screen type CALL 32768 (NO minus sign!) and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-5.1.1.6	HW S2 + NO RTC	1	From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				
			RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on				
				the next line with a cursor below.				
E-5.1.2	HW S2 + NO RTC	Test CAT	From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the USB folder				
				within the AquaLite program folder, followed by Ok beneath. Note				
				that the contents can vary from system to system.				
E-5.1.3.1	HW S2 + NO RTC	Test CD	From the USB BASIC command screen type CD and hit RETURN	The cursor should move down one row, and a / character should be				
	HW S2 + NO RTC	4		displayed, followed by Ok beneath.				
E-5.1.3.2			From the USB BASIC command screen type CD"ROMS" and hit RETURN	The cursor should move down one row and display Ok beneath.				
E-5.1.4	HW S2 + NO RTC	Test DIR	From the USB BASIC command screen type DIR and hit RETURN	System should display a detailed listing of the contents of the USB >				
				ROMS folder within the AquaLite program folder, followed by Ok				
				beneath. Note that the RETURN/ENTER key may have to be pressed				
				one or more times to scroll through the full list of contents.				
E-5.1.5.1	HW S2 + NO RTC	Test CLS	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok in black letters on a cyan				
		4	5 1 1100 04010	background.				-
E-5.1.5.2	HW S2 + NO RTC		From the USB BASIC command screen type CLS 8 and hit RETURN	System should clear the screen and show Ok in black letters on a grey background.				
E-5.1.5.3	HW S2 + NO RTC		From the USB BASIC command screen type CLS \$7D and hit RETURN	System should clear the screen and show Ok in white letters on a dark green background.				
E-5.1.5.4	HW S2 + NO RTC	1	From the LICE DACIC command serson time CT C and his DETLINAL					
E-3.1.5.4	TW 52 + NO RTC	1	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok in black letters on a cyan background.				

E-5.1.6.1		Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
	HW S2 + NO RTC	Test SAVE a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
ļ								
E-5.1.6.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE	System should show each line typed, and move down to the empty line beneath.				
			20 CLS 30 PRINT "Hello"					
E-5.1.6.3	HW S2 + NO RTC		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program and display Ok beneath.				
E-5.1.6.4	HW S2 + NO RTC		From the USB BASIC command screen type SAVE "TEST01.BAS" and hit RETURN	The cursor should move down one row and display Ok beneath. In the USB > ROMS folder within the AquaLite program folder, there should be a new file named TEST01.BAS.				
E-5.1.6.5	HW S2 + NO RTC		From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the folder, and the "TESTO1.BAS" file should be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				
E-5.1.7.1	HW S2 + NO RTC	Test LOAD a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-5.1.7.2	HW S2 + NO RTC		From the USB BASIC command screen type LIST and hit RETURN	System should display NO PROGRAM LINES with Ok beneath.				
E-5.1.7.3	HW S2 + NO RTC		From the USB BASIC command screen type LOAD "TEST01.BAS" and hit RETURN	System should display Ok beneath.				
E-5.1.7.4	HW S2 + NO RTC		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program listed in test E-5.1.6.2 and display Ok beneath.				
E-5.1.8.1	HW S2 + NO RTC	Test RUN a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-5.1.8.2	HW S2 + NO RTC		From the USB BASIC command screen type RUN "TEST01.BAS" and hit RETURN	System should clear the screen, print Hello at the top, and display Ok beneath.				
E-5.1.9.1	HW S2 + NO RTC	Test DEL	From the USB BASIC command screen type DEL " TEST01.BAS " and hit RETURN	System should display Ok beneath.				
E-5.1.9.2	HW S2 + NO RTC		From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the folder, and the "TESTO1.BAS" file SHOULD NOT be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				
E-5.1.10.1	HW S2 + NO RTC	Test SAVE a BIN file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-5.1.10.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE BIN 20 POKE \$8000,97,98,99,100 30 PRINT "Done"	System should show each line typed, and move down to the empty line beneath.				
E-5.1.10.3	HW S2 + NO RTC		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program and display Ok beneath.				
E-5.1.10.4	HW S2 + NO RTC		From the USB BASIC command screen type RUN and hit RETURN	System should print Done and display Ok beneath the program listing.				
E-5.1.10.5	HW S2 + NO RTC		From the USB BASIC command screen type CD "/" and hit RETURN	System should display Ok beneath.				
E-5.1.10.6	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: SAVE "POKE.BIN", \$8000, 4	System should display Ok beneath.				
E-5.1.10.7	HW S2 + NO RTC		From the USB BASIC command screen type DIR and hit RETURN	System should display a detailed listing of the contents of the USB folder within the Aqualite program folder, and the file named "POKE.BIN" should be listed in the contents. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll past the full list of contents.				
E-5.1.11.1	HW S2 + NO RTC	Test LOAD a BIN file	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-5.1.11.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: LOAD "POKE.BIN", \$3242	System should display abcd in the middle of the screen, with Ok beneath the text you just typed.				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-5.1.12.1	HW S2 + NO RTC	Test RUN a ROM file	From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				
			RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-5.1.12.2	HW S2 + NO RTC		From the USB BASIC command screen type CD"ROMS" and hit	The cursor should move down one row and display Ok beneath.				\vdash
			RETURN	,,				
E-5.1.12.3	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit	System should load the SNAFU game ROM and display the SNAFU title				
			RETURN: RUN "SNAFU.ROM"	screen.				
E-5.1.12.4	HW S2 + NO RTC		From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				\vdash
			RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on				
				the next line with a cursor below.				
E-5.1.13.1	HW S2 + NO RTC	Test DEBUG	From the USB BASIC command screen type DEBUG and hit RETURN	The AQUBUG screen should pop up with white text on a blue background.				
E-5.1.13.2	HW S2 + NO RTC	1	On the AQUBUG screen type the letter Q	System should return to the USB BASIC command screen, showing the				\vdash
			"	DEBUG command with Ok beneath.				
E-5.1.14.1	HW S2 + NO RTC	Test HEX\$	From the USB BASIC command screen type the code below and hit	System should display 3000 on the next line with Ok beneath.				
			REIURN: PRINT HEX\$(12288)					
E-5.1.14.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit	System should display FF85 on the next line with Ok beneath.				
			RETURN:					
554443	LINAVCO - NO DEC		PRINT HEX\$ (-123)	Contact the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state				——
E-5.1.14.3	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN:	System should display FFFF on the next line with Ok beneath.				
			PRINT HEX\$(65535)					1
E-5.1.15	HW S2 + NO RTC	Test JOY	From the USB BASIC command screen type the code below and try to	System should display 64 on the next line with Ok beneath. If you				
			type RETURN and the 1 key at about the same time (maybe a slight delay before the 1 key):	weren't able to get it to work exactly right, a 0 might be displayed				1
			PRINT JOY(0)	instead of the 64. Try a couple of times to get it to work, if you can.				
E-5.1.16	HW S2 + NO RTC	Test IN	From the USB BASIC command screen type the code below and hit	System should display 247 on the next line with Ok beneath.				
			RETURN:					
E-5.1.17.1	HW S2 + NO RTC	Took DCC	PRINT IN (\$FF) From the USB BASIC command screen type the code below and hit	System should play a Db4 tone continuously.				\vdash
E-5.1.17.1	HW 32 + NO KIC	lest rod	RETURN:	system should play a 564 tone continuously.				1
			PSG 8,15,0,148,1,1,7,56					
E-5.1.17.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit	System should stop playing the tone.				
			RETURN: PSG 8.0.7.0					
E-5.1.18.1	HW S2 + NO RTC	Test OUT	From the USB BASIC command screen type the code below and hit	System should play a Db4 tone continuously and print Ok beneath.				\vdash
			RETURN:					1
			PSG 8,15,0,148,1,1,7,56					
E-5.1.18.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN after each line:	System should print Ok after each RETURN, and then should stop playing the tone after the second.				
			OUT 247,8	proyring the tone after the second.				1
			OUT \$F6,0					
E-5.1.19.1	HW S2 + NO RTC	Test EDIT	From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				
			RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-5.1.19.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty				
			RETURN:	line beneath.				
E-5.1.19.3	HW S2 + NO RTC		10 REM Testing EDIT From the USB BASIC command screen type the code below and hit	System should list the previously entered line 10 with a blue cursor				\vdash
L 3.1.13.3	HW 32 - NO KIC		RETURN:	and white text positioned over the R in the REM command.				1
			EDIT 10	·				
E-5.1.19.4	HW S2 + NO RTC		Within the line 10 edit with the cursor on the R of REM, press the	System should display line 10 with a SPACE between the 10 and the				
			SPACE bar to insert a space between the line number 10 and the REM statement.	REM command.				i J
E-5.1.19.5	HW S2 + NO RTC	1	Within the line 10 edit with the cursor on the R of REM, CTRL + /	System should list the previously entered line 10 with a blue cursor				
			eleven times so the cursor is on top of the SPACE after the word	and white text positioned over the SPACE after the word Testing.				
E-5.1.19.6	HW S2 + NO RTC		Testing. Within the line 10 edit with the cursor on the SPACE between the	Custom should list the avoid usly entered line 10 with - him -				$\vdash \vdash \vdash$
t-5.1.19.6	nw 52 + NO RTC		Within the line 10 edit with the cursor on the SPACE between the word Testing and EDIT, press the DELETE/BACKSPACE key three times	System should list the previously entered line 10 with a blue cursor and white text positioned over the SPACE before the word EDIT.				į I
			to delete the letters "ing" at the end of the word Testing.					
			1001 1 B 40 B 10 B					
E-5.1.19.7	HW S2 + NO RTC		Within the line 10 edit with the cursor on the SPACE between the word Test and EDIT, press CTRL + P eight times so the cursor is over	The cursor should go to the line beneath line 10, and should NOT display Ok beneath.				i J
			the letter R in REM, and then hit RETURN/ENTER.	anspray on benedicin				i J
E-5.1.19.8	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit	System should display a blank line, then list line 10 again, with Ok				7
			RETURN: LIST 10	beneath.				i J
	L	l	I		1			

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time	
E-5.1.20.1	HW S2 + NO RTC	Test LOCATE	From the USB BASIC command screen type the code below and hit RETURN after each line: 10 CLS 20 LOCATE 20,12 30 PRINT CHR\$ (KEY(0))	System should show each line typed, and move down to the empty line beneath.					
E-5.1.20.2	HW S2 + NO RTC		From the USB BASIC command screen type RUN and hit RETURN	System should move the cursor to the middle of the screen.					
E-5.1.20.3	HW S2 + NO RTC		With the cursor in the middle of the screen, press the G key.	System should display a "g" in the middle of the screen, then go to the next line and print Ok beneath.					
E-5.1.20.4	HW S2 + NO RTC		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.					
	PLEASE CONTINUE EVEN IF ALL TESTS IN THIS SECTION DID NOT PASS.								

New Com								
Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-5.2.0	HW S2 + NO RTC	Test NEW commands						
E-5.2.1.1	HW S2 + NO RTC	Test POKE auto-increment	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-5.2.1.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: POKE 12945, 97, 98, 99, 100	The screen should print abcd in a row towards the middle bottom of the screen.				
E-5.2.2.1	HW S2 + NO RTC	Test POKE range	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-5.2.2.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291 TO \$3299,97	The screen should print aaaaaaaaa (nine letter a's) in a row towards the middle bottom of the screen.				
E-5.2.3.1	HW S2 + NO RTC	Test POKE step	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-5.2.3.2	HW S2 + NO RTC	-	From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291,97,STEP 40,97,STEP 40,97	The screen should print aaa (three letter a's) in a downward line at the middle bottom of the screen.				
E-5.2.4.1	HW S2 + NO RTC	Test POKE strings	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-5.2.4.2	HW S2 + NO RTC	-	From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291, "Hubba", STEP 40, "Bubba"	The screen should print the words Hubba Bubba stacked on top of each other at the middle bottom of the screen.				
E-5.2.5.1	HW S2 + NO RTC	Test COPY	From the Aqualite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-5.2.5.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: COPY \$3000,\$3000+440,120	The text at the top of the screen ("Copyright © 1982 by Microsoft, Inc S2" & "USB BASIC v1.3" should be duplicated in the middle of the screen, with the Ok beneath the COPY command near the top.				
E-5.2.6.1	HW S2 + NO RTC	Test ATN	From the Aqualite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-5.2.6.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT ATN (1)	System should display .785398 on the next line with Ok beneath.				
E-5.2.7.1	HW S2 + NO RTC	Test DEC	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-5.2.7.2	HW S2 + NO RTC	-	From the USB BASIC command screen type the code below and hit RETURN: PRINT DEC("55FF")	System should display 22015 on the next line with Ok beneath.				
E-5.2.8.1	HW S2 + NO RTC	Test DEEK	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-5.2.8.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (DEEK (12288+41))	System should display 684F on the next line with Ok beneath. (\$4F is the "O" character and \$6B is the "k" character from the top left of the screen.)				
E-5.2.9.1	HW S2 + NO RTC	Test DOKE	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-5.2.9.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: DOKE 12288+41,\$6948	System should display Hi at the top left of the screen and show Ok beneath the DOKE command line. (\$48 is the "H" character and \$69 is the "i" character.)				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Tim
E-5.2.10.1	HW S2 + NO RTC	Test KEY	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-5.2.10.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty				├──
-5.2.10.2	11VV 32 + NO RIC		RETURN after each line:	line beneath.				
			10 CLS 42					
			20 LOCATE 20,12 30 PRINT CHR\$(KEY(0))					
-5.2.10.3	HW S2 + NO RTC		From the USB BASIC command screen type RUN and hit RETURN	System should clear the screen to GREEN letters on a PURPLE				
-5.2.10.5	HW 32 + NO KIC		From the OSB BASIC Command screen type RON and the RETORN	background and move the GREEN cursor to the middle of the screen,				
				waiting for input.				
-5.2.10.4	HW S2 + NO RTC		With the cursor in the middle of the screen, press the M key (without					
E-5.2.11.1	HW S2 + NO RTC	Took CDTM	the SHIFT key pressed). From the USB BASIC command screen type CLS and hit RETURN	the next line and print Ok beneath. System should clear the screen and show Ok .				
:-5.2.11.1	HW 52 + NO RIC	Test SDTM	From the USB BASIC command screen type CLS and nit RETURN	system should clear the screen and show Ok .				
E-5.2.11.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit	System should display Ok beneath.				
			RETURN, replacing "YYMMDDHHMMSS" with the current DateTime					
			settings:					
-5.2.11.3	HW S2 + NO RTC		SDTM "YYMMDDHHMMSS" From the AquaLite menu, select File > Hard Reset.	The "Aquarius USB BASIC, v1.3" screen should be displayed with the				
3.2.11.3	11W 32 + NO KIC		From the Aquabite menu, select rile > hard neset.	2017-06-12 11:00:00 shown at the bottom of the screen, and the				
				seconds should NOT be incrementing.				
-5.2.12.1	HW S2 + NO RTC	Test DTM\$	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-5.2.12.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit	System should display a string with the current date and time,				
p.2.12.2	⊓W SZ + NU KIC		From the USB BASIC command screen type the code below and hit RETURN:	System should display a string with the current date and time, formatted YYMMDDHHMMSSCC, with Ok beneath.				
			PRINT DTM\$(0)					
-5.2.12.3	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit	System should display a string with the current date and time,				
			RETURN: PRINT DTM\$(1)	formatted YYYY-MM-DD HH:MM:SS, with Ok beneath. Note that the				
			PRINT DIMP(I)	Century is assumed to be 20, and the hours are in 24 hour format.				
5.2.12.4	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit	System should display a string with the current date, formatted YYYY-				
			RETURN:	MM-DD, with Ok beneath. Note that the Century is assumed to be 20.				
			PRINT LEFT\$(DTM\$(1),10)					
-5.2.12.5	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN:	System should display a string with the current time, formatted HH:MM:SS, with Ok beneath. Note that the hours are in 24 hour				
			PRINT RIGHT(DTM\$(1),8))	format.				
-5.2.13.1	HW S2 + NO RTC	Test VER	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
-5.2.13.2	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN:	System should display 0103, with Ok beneath.				
			PRINT HEX\$(VER(0))					
-5.2.13.3	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit	System should display 1, with Ok beneath.				
			RETURN:					
F 2 12 4	LIM S2 - NO STC		PRINT VAL (LEFT\$ (HEX\$ (VER(0)),2))	Sustan should display 2 with Ok hanoath				
-5.2.13.4	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN:	System should display 3, with Ok beneath.				
			PRINT VAL(RIGHT\$(HEX\$(VER(0)),2))					<u> </u>
-5.2.14.1	HW S2 + NO RTC	Test DEF FN / FN	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
-5.2.14.2	HW S2 + NO RTC		From the LICE DACIC command serson time GT G and his DETURN	Sustant should slear the server and show Ok				
-5.2.14.2	HW S2 + NO RTC		From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
-5.2.14.3	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty				
			RETURN after each line:	line beneath.				
			10 DEF FN A(X) = X+7					
			20 PRINT FN A(9) 30 PRINT FN A(20)					
-5.2.14.4	HW S2 + NO RTC		From the USB BASIC command screen type RUN and hit RETURN	System should print 16 on one line, 27 beneath it, with Ok beneath the				
			Section type and mental of the	27.				
-5.2.14.5	HW S2 + NO RTC		From the USB BASIC command screen type the code below and hit	System should print 14, with Ok beneath.				
			RETURN:					
-5.2.15	HW/ S2 ± NO DTC	TESTING COMPLETE	PRINT FN A (7) From the AquaLite menu, select File > Hard Reset, and then hit the	The "Copyright © 1982 by Microsoft, Inc S2" screen should be				-
L J.2.1J	110V 32 T NO RIC	TESTING CONFEETE	RETURN/ENTER key to go to USB BASIC.	displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on				
			, , , , , , , , , , , , , , , , , , , ,	the next line with a cursor below.				<u> </u>
				EVEN IF ALL TESTS IN THIS SECTION DID NOT PASS				



Alpha Test Plan	Tester Name:	
USB BASIC v1.3	Date Completed:	
E6	Environment(s) Tested:	Hardware S1 + Aquarius MX with RTC

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-6.0.0	HW S1 + MX RTC	Setup Hardware MX + RTC						
E-6.0.1	HW S1 + MX RTC		Download & update MX EPROM to v1.3 (64k)	MX ROM is updated to v1.3				
E-6.0.2	HW S1 + MX RTC		Ensure hardware update to RTC socket has been completed.	MX board should be ready to use RTC unit.				
E-6.0.3	HW S1 + MX RTC		Remove 32k RAM and replace with Dallas DS1244Y DIP RTC unit.	MX board should have the RTC installed in place of RAM.				
E-6.0.4	HW S1 + MX RTC		Install MX unit and boot Aquarius.	The "Aquarius USB BASIC, v1.3" screen should be displayed.				
E-6.0.5	HW S1 + MX RTC		Press the A key within the emulator.	The "About USB BASIC" screen should be displayed.				
E-6.0.6	HW S1 + MX RTC		Press any key to exit the About screen.	The "Aquarius USB BASIC, v1.3" screen should be displayed.				
E-6.0.7	HW S1 + MX RTC		Press RETURN/ENTER key to go to the USB BASIC command screen.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next				
			Note: This screen is the starting point for most tests in this plan.	line with a cursor below.				
	DO NOT CONTINUE IF ANY TESTS IN THIS SECTION DID NOT PASS! CONTACT THE TESTING COORDINATOR, Sean Harrington sph@1stage.com.							

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-6.1.0	HW S1 + MX RTC	Test legacy commands						
E-6.1.1.1	HW S1 + MX RTC	Test CALL xx	From the USB BASIC command screen type CALL \$8000 and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-6.1.1.2	HW S1 + MX RTC		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-6.1.1.3	HW S1 + MX RTC		From the USB BASIC command screen type CALL -32768 and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-6.1.1.4	HW S1 + MX RTC		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-6.1.1.5	HW S1 + MX RTC		From the USB BASIC command screen type CALL 32768 (NO minus sign!) and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-6.1.1.6	HW S1 + MX RTC		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-6.1.2	HW S1 + MX RTC	Test CAT	From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the USB folder within the AquaLite program folder, followed by Ok beneath. Note that the contents can vary from system to system.				
E-6.1.3.1	HW S1 + MX RTC	Test CD	From the USB BASIC command screen type CD and hit RETURN	The cursor should move down one row, and a / character should be displayed, followed by Ok beneath.				
E-6.1.3.2	HW S1 + MX RTC		From the USB BASIC command screen type CD"ROMS" and hit RETURN	The cursor should move down one row and display Ok beneath.				
E-6.1.4	HW S1 + MX RTC	Test DIR	From the USB BASIC command screen type DIR and hit RETURN	System should display a detailed listing of the contents of the USB > ROMS folder within the Aqualite program folder, followed by Ok beneath. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				
E-6.1.5.1	HW S1 + MX RTC	Test CLS	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok in black letters on a cyan background.				
E-6.1.5.2	HW S1 + MX RTC		From the USB BASIC command screen type CLS 8 and hit RETURN	System should clear the screen and show Ok in black letters on a grey background.				
E-6.1.5.3	HW S1 + MX RTC		From the USB BASIC command screen type CLS \$7D and hit RETURN	System should clear the screen and show Ok in white letters on a dark green background.				
E-6.1.5.4	HW S1 + MX RTC		From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok in black letters on a cyan background.				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-6.1.6.1	HW S1 + MX RTC	Test SAVE a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-6.1.6.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE 20 CLS 30 PRINT "Hello"	System should show each line typed, and move down to the empty line beneath.				
E-6.1.6.3	HW S1 + MX RTC		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program and display Ok beneath.				
E-6.1.6.4	HW S1 + MX RTC		From the USB BASIC command screen type SAVE "TEST01.BAS" and hit RETURN	The cursor should move down one row and display Ok beneath. In the USB > ROMS folder within the AquaLite program folder, there should be a new file named TEST01.BAS.				
E-6.1.6.5	HW S1 + MX RTC		From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the folder, and the "TEST01.BAS" file should be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				
E-6.1.7.1	HW S1 + MX RTC	Test LOAD a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-6.1.7.2	HW S1 + MX RTC		From the USB BASIC command screen type LIST and hit RETURN	System should display NO PROGRAM LINES with Ok beneath.				
E-6.1.7.3	HW S1 + MX RTC		From the USB BASIC command screen type LOAD "TEST01.BAS" and hit RETURN	System should display Ok beneath.				
E-6.1.7.4	HW S1 + MX RTC		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program listed in test E- 6.1.6.2 and display Ok beneath.				
E-6.1.8.1	HW S1 + MX RTC	Test RUN a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-6.1.8.2	HW S1 + MX RTC		From the USB BASIC command screen type RUN "TEST01.BAS" and hit RETURN	System should clear the screen, print Hello at the top, and display Ok beneath.				
E-6.1.9.1	HW S1 + MX RTC	Test DEL	From the USB BASIC command screen type DEL "TEST01.BAS" and hit RETURN	System should display Ok beneath.				
E-6.1.9.2	HW S1 + MX RTC		From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the folder, and the "TEST01.BAS" file SHOULD NOT be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				
E-6.1.10.1	HW S1 + MX RTC	Test SAVE a BIN file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-6.1.10.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE BIN 20 POKE \$8000,97,98,99,100 30 PRINT "Done"	System should show each line typed, and move down to the empty line beneath.				
E-6.1.10.3	HW S1 + MX RTC]	From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program and display Ok beneath.				
E-6.1.10.4	HW S1 + MX RTC		From the USB BASIC command screen type RUN and hit RETURN	System should print Done and display Ok beneath the program listing.				
E-6.1.10.5	HW S1 + MX RTC		From the USB BASIC command screen type CD "/" and hit RETURN	System should display Ok beneath.				
E-6.1.10.6	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: SAVE "POKE.BIN", \$8000, 4	System should display Ok beneath.				
E-6.1.10.7	HW S1 + MX RTC		From the USB BASIC command screen type DIR and hit RETURN	System should display a detailed listing of the contents of the USB folder within the AquaLite program folder, and the file named "POKE.BIN" should be listed in the contents. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll past the full list of contents.				
E-6.1.11.1	HW S1 + MX RTC	Test LOAD a BIN file	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-6.1.11.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: LOAD "POKE.BIN", \$3242	System should display abcd in the middle of the screen, with Ok beneath the text you just typed.				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-6.1.12.1	HW S1 + MX RTC	Test RUN a ROM file	From the AquaLite menu, select File > Hard Reset, and then hit the	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next				
			RETURN/ENTER key to go to USB BASIC.	line with a cursor below.				
E-6.1.12.2	HW S1 + MX RTC		From the USB BASIC command screen type CD"ROMS" and hit RETURN	The cursor should move down one row and display Ok beneath.				
E-6.1.12.3	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit	System should load the SNAFU game ROM and display the SNAFU title				
			RETURN: RUN "SNAFU.ROM"	screen.				
E-6.1.12.4	HW S1 + MX RTC		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-6.1.13.1	HW S1 + MX RTC	Test DEBUG	From the USB BASIC command screen type DEBUG and hit RETURN	The AQUBUG screen should pop up with white text on a blue background.				
E-6.1.13.2	HW S1 + MX RTC		On the AQUBUG screen type the letter Q	System should return to the USB BASIC command screen, showing the DEBUG command with Ok beneath.				
E-6.1.14.1	HW S1 + MX RTC	Test HEX\$	From the USB BASIC command screen type the code below and hit	System should display 3000 on the next line with Ok beneath.				
			RETURN: PRINT HEX\$(12288)					1
E-6.1.14.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit	System should display FF85 on the next line with Ok beneath.				
			RETURN: PRINT HEX\$(-123)					1
E-6.1.14.3	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit	System should display FFFF on the next line with Ok beneath.				
			RETURN: PRINT HEX\$(65535)					1
E-6.1.15	HW S1 + MX RTC	Test JOY	From the USB BASIC command screen type the code below and try to	System should display 64 on the next line with Ok beneath. If you				
			type RETURN and the 1 key at about the same time (maybe a slight	weren't able to get it to work exactly right, a 0 might be displayed				1
			delay before the 1 key): PRINT JOY(0)	instead of the 64. Try a couple of times to get it to work, if you can.				
E-6.1.16	HW S1 + MX RTC	Test IN	From the USB BASIC command screen type the code below and hit	System should display 247 on the next line with Ok beneath.				
			RETURN: PRINT IN(\$FF)					
E-6.1.17.1	HW S1 + MX RTC	Test PSG	From the USB BASIC command screen type the code below and hit	System should play a Db4 tone continuously.				
			RETURN: PSG 8,15,0,148,1,1,7,56					1
E-6.1.17.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit	System should stop playing the tone.				
			RETURN: PSG 8,0,7,0					1
E-6.1.18.1	HW S1 + MX RTC	Test OUT	From the USB BASIC command screen type the code below and hit	System should play a Db4 tone continuously and print Ok beneath.				
			RETURN: PSG 8,15,0,148,1,1,7,56					
E-6.1.18.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit	System should print Ok after each RETURN, and then should stop				
			RETURN after each line:	playing the tone after the second.				1
			OUT 247,8 OUT \$F6,0					1
E-6.1.19.1	HW S1 + MX RTC	Test EDIT	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-6.1.19.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty				
			RETURN: 10 REM Testing EDIT	line beneath.				
E-6.1.19.3	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit	System should list the previously entered line 10 with a blue cursor				
			RETURN: EDIT 10	and white text positioned over the R in the REM command.				
E-6.1.19.4	HW S1 + MX RTC		Within the line 10 edit with the cursor on the R of REM, press the	System should display line 10 with a SPACE between the 10 and the				
			SPACE bar to insert a space between the line number 10 and the REM statement.	REM command.				
E-6.1.19.5	HW S1 + MX RTC		Within the line 10 edit with the cursor on the R of REM, CTRL + /	System should list the previously entered line 10 with a blue cursor				
			eleven times so the cursor is on top of the SPACE after the word	and white text positioned over the SPACE after the word Testing.				1 1
E-6.1.19.6	HW S1 + MX RTC		Testing. Within the line 10 edit with the cursor on the SPACE between the	System should list the previously entered line 10 with a blue cursor				$\overline{}$
2 0.1.15.0	SI . WA KIC		word Testing and EDIT, press the DELETE/BACKSPACE key three times	and white text positioned over the SPACE before the word EDIT.				ı
			to delete the letters "ing" at the end of the word Testing.					
E-6.1.19.7	HW S1 + MX RTC		Within the line 10 edit with the cursor on the SPACE between the	The cursor should go to the line beneath line 10, and should NOT				
			word Test and EDIT, press CTRL + P eight times so the cursor is over	display Ok beneath.				1
			the letter R in REM, and then hit RETURN/ENTER.					1
E-6.1.19.8	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit	System should display a blank line, then list line 10 again, with Ok				
			RETURN:	beneath.				1
			LIST 10					1

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time	
E-6.1.20.1	HW S1 + MX RTC	Test LOCATE	From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty					
			RETURN after each line:	line beneath.					
			10 CLS						
			20 LOCATE 20,12						
			30 PRINT CHR\$(KEY(0))						
E-6.1.20.2	HW S1 + MX RTC		From the USB BASIC command screen type RUN and hit RETURN	System should move the cursor to the middle of the screen.					
E-6.1.20.3	HW S1 + MX RTC		With the cursor in the middle of the screen, press the G key.	System should display a "g" in the middle of the screen, then go to the				1	
				next line and print Ok beneath.					
E-6.1.20.4	HW S1 + MX RTC		From the AquaLite menu, select File > Hard Reset, and then hit the	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next					
			RETURN/ENTER key to go to USB BASIC.	line with a cursor below.				1	
	INTERVINENT REPORT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROP								

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Test No		Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-6.2.0		Test NEW commands						
E-6.2.1.1	HW S1 + MX RTC	Test POKE auto-increment	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-6.2.1.2	HW S1 + MX RTC	1	From the USB BASIC command screen type the code below and hit RETURN:	The screen should print abcd in a row towards the middle bottom of the screen.				
			POKE 12945,97,98,99,100	tile screen.				
E-6.2.2.1	HW S1 + MX RTC	Test POKE range	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-6.2.2.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291 TO \$3299,97	The screen should print aaaaaaaa (nine letter a's) in a row towards the middle bottom of the screen.				
E-6.2.3.1	HW S1 + MX RTC	Test POKE step	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-6.2.3.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291,97,STEP 40,97,STEP 40,97	The screen should print aaa (three letter a's) in a downward line at the middle bottom of the screen.				
E-6.2.4.1	HW S1 + MX RTC	Test POKE strings	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-6.2.4.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291, "Hubba", STEP 40, "Bubba"	The screen should print the words Hubba Bubba stacked on top of each other at the middle bottom of the screen.				
E-6.2.5.1	HW S1 + MX RTC	Test COPY	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-6.2.5.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: COPY \$3000,\$3000+440,120	The text at the top of the screen ("USB BASIC v1.3" should be duplicated in the middle of the screen, with the Ok beneath the COPY command near the top.				
E-6.2.6.1	HW S1 + MX RTC	Test ATN	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-6.2.6.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT ATN (1)	System should display .785398 on the next line with Ok beneath.				
E-6.2.7.1	HW S1 + MX RTC	Test DEC	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-6.2.7.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT DEC ("55FF")	System should display 22015 on the next line with Ok beneath.				
E-6.2.8.1	HW S1 + MX RTC	Test DEEK	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-6.2.8.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (DEEK (12288+41))	System should display 684F on the next line with Ok beneath. (\$4F is the "O" character and \$6B is the "k" character from the top left of the screen.)				
E-6.2.9.1	HW S1 + MX RTC	Test DOKE	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-6.2.9.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: DOKE 12288+41,\$6948	System should display Hi at the top left of the screen and show Ok beneath the DOKE command line. (\$48 is the "H" character and \$69 is the "i" character.)				

Test No	Environment		Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-6.2.10.1	HW S1 + MX RTC	Test KEY	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-6.2.10.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 CLS 42 20 LOCATE 20,12 30 PRINT CHR\$ (KEY (0))	System should show each line typed, and move down to the empty line beneath.				
E-6.2.10.3	HW S1 + MX RTC		From the USB BASIC command screen type RUN and hit RETURN	System should clear the screen to GREEN letters on a PURPLE background and move the GREEN cursor to the middle of the screen, waiting for input.				
E-6.2.10.4	HW S1 + MX RTC		With the cursor in the middle of the screen, press the M key (without the SHIFT key pressed).	System should display a "m" in the middle of the screen, then go to the next line and print Ok beneath.				
E-6.2.11.1	HW S1 + MX RTC	Test SDTM	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-6.2.11.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN, replacing "YYMMDDHHMMSS" with the current DateTime settings: SDTM "YYMMDDHHMMSS"	System should display Ok beneath.				
	HW S1 + MX RTC		From the AquaLite menu, select File > Hard Reset.	The "Aquarius USB BASIC, v1.3" screen should be displayed with the correct date and time shown at the bottom of the screen, with seconds ticking by.				
E-6.2.12.1	HW S1 + MX RTC	Test DTM\$	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-6.2.12.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT DTM\$ (0)	System should display a string with the current date and time, formatted YYMMDDHHMMSSCC, with Ok beneath.				
E-6.2.12.3	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT DTM\$ (1)	System should display a string with the current date and time, formatted YYYY-MM-DD HH:MM:SS, with Ok beneath. Note that the Century is assumed to be 20, and the hours are in 24 hour format.				
E-6.2.12.4	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT LEFT\$ (DTM\$ (1) , 10)	System should display a string with the current date, formatted YYYY-MM-DD, with Ok beneath. Note that the Century is assumed to be 20.				
E-6.2.12.5	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT RIGHT (DTM\$ (1),8))	System should display a string with the current time, formatted HH:MM:SS, with Ok beneath. Note that the hours are in 24 hour format				
E-6.2.13.1	HW S1 + MX RTC	Test VER	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-6.2.13.2	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (VER (0))	System should display 0103, with Ok beneath.				
E-6.2.13.3	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT VAL (LEFT\$ (HEX\$ (VER(0)),2))	System should display 1, with Ok beneath.				
E-6.2.13.4	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT VAL (RIGHT\$ (HEX\$ (VER(0)), 2))	System should display 3, with Ok beneath.				
E-6.2.14.1	HW S1 + MX RTC	Test DEF FN / FN	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-6.2.14.2	HW S1 + MX RTC		From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-6.2.14.3	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN after each line: 10 DEF FN $A(X) = X+7$ 20 PRINT FN $A(9)$ 30 PRINT FN $A(20)$	System should show each line typed, and move down to the empty line beneath.				
E-6.2.14.4	HW S1 + MX RTC		From the USB BASIC command screen type RUN and hit RETURN	System should print 16 on one line, 27 beneath it, with Ok beneath the 27.				
E-6.2.14.5	HW S1 + MX RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT FN A (7)	System should print 14, with Ok beneath.				
E-6.2.15	HW S1 + MX RTC	TESTING COMPLETE	From the Aqualite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				



Alpha Test Plan	Tester Name:	
USB BASIC v1.3	Date Completed:	
E7	Environment(s) Tested:	Hardware S1 + Aquarius MX NO RTC

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time			
E-7.0.0	HW S1 + NO RTC	Setup Hardware MX + RTC									
E-7.0.1	HW S1 + NO RTC		Download & update MX EPROM to v1.3 (64k)	MX ROM is updated to v1.3							
E-7.0.2	HW S1 + NO RTC		Install MX unit and boot Aquarius.	The "Aquarius USB BASIC, v1.3" screen should be displayed.							
E-7.0.3	HW S1 + NO RTC		Press the A key within the emulator.	The "About USB BASIC" screen should be displayed.							
E-7.0.4	HW S1 + NO RTC		Press any key to exit the About screen.	The "Aquarius USB BASIC, v1.3" screen should be displayed.							
E-7.0.5	HW S1 + NO RTC		Press RETURN/ENTER key to go to the USB BASIC command screen.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next							
			Note: This screen is the starting point for most tests in this plan.	line with a cursor below.							
	DO NOT CONTINUE IF ANY TESTS IN THIS SECTION DID NOT PASS! CONTACT THE TESTING COORDINATOR. Sean Harrinaton sph@1staae.com.										

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-7.1.0		Test legacy commands						
E-7.1.1.1	HW S1 + NO RTC	Test CALL xx	From the USB BASIC command screen type CALL \$8000 and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-7.1.1.2	HW S1 + NO RTC		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-7.1.1.3	HW S1 + NO RTC		From the USB BASIC command screen type CALL -32768 and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-7.1.1.4	HW S1 + NO RTC		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-7.1.1.5	HW S1 + NO RTC		From the USB BASIC command screen type CALL 32768 (NO minus sign!) and hit RETURN	The cursor should move down one row, and the system should freeze.				
E-7.1.1.6	HW S1 + NO RTC		From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-7.1.2	HW S1 + NO RTC	Test CAT	From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the USB folder within the AquaLite program folder, followed by Ok beneath. Note that the contents can vary from system to system.				
E-7.1.3.1	HW S1 + NO RTC	Test CD	From the USB BASIC command screen type CD and hit RETURN	The cursor should move down one row, and a / character should be displayed, followed by Ok beneath.				
E-7.1.3.2	HW S1 + NO RTC]	From the USB BASIC command screen type CD"ROMS" and hit RETURN	The cursor should move down one row and display Ok beneath.				
E-7.1.4	HW S1 + NO RTC	Test DIR	From the USB BASIC command screen type DIR and hit RETURN	System should display a detailed listing of the contents of the USB > ROMS folder within the Aqualite program folder, followed by Ok beneath. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents.				
E-7.1.5.1	HW S1 + NO RTC	Test CLS	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok in black letters on a cyan background.				
E-7.1.5.2	HW S1 + NO RTC]	From the USB BASIC command screen type CLS 8 and hit RETURN	System should clear the screen and show Ok in black letters on a grey background.				
E-7.1.5.3	HW S1 + NO RTC		From the USB BASIC command screen type CLS \$7D and hit RETURN	System should clear the screen and show Ok in white letters on a dark green background.				
E-7.1.5.4	HW S1 + NO RTC		From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok in black letters on a cyan background.				

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-7.1.6.1	HW S1 + NO RTC	Test SAVE a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-7.1.6.2	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty				
			RETURN after each line:	line beneath.				
			10 REM Testing SAVE					
			20 CLS 30 PRINT "Hello"					
E-7.1.6.3	HW S1 + NO RTC		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program and display Ok				
L-7.1.0.3	IIW 31 + NO KIC		From the OSB BASIC Command Screen type LTST and nic KETOKIN	heneath.				
E-7.1.6.4	HW S1 + NO RTC		From the USB BASIC command screen type SAVE "TEST01.BAS"	The cursor should move down one row and display Ok beneath. In the				†
			and hit RETURN	USB > ROMS folder within the AquaLite program folder, there should				
				be a new file named TEST01.BAS.				
E-7.1.6.5	HW S1 + NO RTC		From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the folder, and				
				the "TEST01.BAS" file should be lised among those files. Note that the				
				RETURN/ENTER key may have to be pressed one or more times to				
				scroll through the full list of contents.				
E-7.1.7.1	HW S1 + NO RTC	Test LOAD a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.		1		
2 7.2.7.2	52 - 115 1116		and the nervina					
E-7.1.7.2	HW S1 + NO RTC		From the USB BASIC command screen type LIST and hit RETURN	System should display NO PROGRAM LINES with Ok beneath.				
			"					
E-7.1.7.3	HW S1 + NO RTC		From the USB BASIC command screen type LOAD "TEST01.BAS"	System should display Ok beneath.				
			and hit RETURN					
E-7.1.7.4	HW S1 + NO RTC		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program listed in test E-				
				7.1.6.2 and display Ok beneath.				
E-7.1.8.1	HW S1 + NO RTC	Test RUN a BASIC file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
			5 11 1100 01010					
E-7.1.8.2	HW S1 + NO RTC		From the USB BASIC command screen type RUN "TEST01.BAS" and hit RETURN	System should clear the screen, print Hello at the top, and display Ok beneath.				
E-7.1.9.1	HW S1 + NO RTC	Test DEI	From the USB BASIC command screen type DEL "TEST01.BAS"	System should display Ok beneath.				-
L-7.1.5.1	IIW 31 + NO KIC	TEST DEL	and hit RETURN	System should display ox beneath.				
E-7.1.9.2	HW S1 + NO RTC		From the USB BASIC command screen type CAT and hit RETURN	System should display a brief listing of the contents of the folder, and				+
27.2.3.2			Trom the obb brisic command screen type data and meneromy	the "TEST01.BAS" file SHOULD NOT be lised among those files. Note				
				that the RETURN/ENTER key may have to be pressed one or more				
				times to scroll through the full list of contents.				
E-7.1.10.1	HW S1 + NO RTC	Test SAVE a BIN file	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-7.1.10.2	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty				
			RETURN after each line: 10 REM Testing SAVE BIN	line beneath.				
			20 POKE \$8000,97,98,99,100					
			30 PRINT "Done"					
E-7.1.10.3	HW S1 + NO RTC		From the USB BASIC command screen type LIST and hit RETURN	System should show all three lines in the program and display Ok				
			·	beneath.				
E-7.1.10.4	HW S1 + NO RTC		From the USB BASIC command screen type RUN and hit RETURN	System should print Done and display Ok beneath the program listing.				
E-7.1.10.5	HW S1 + NO RTC		From the USB BASIC command screen type CD "/" and hit RETURN	System should display Ok beneath.				
F 7 4 40 C	104/64 . 110 5==		From the LICE BACIC commands	Contains about display Ob has eath				++
E-7.1.10.6	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN:	System should display Ok beneath.				
			SAVE "POKE.BIN", \$8000, 4					
E-7.1.10.7	HW S1 + NO RTC		From the USB BASIC command screen type DIR and hit RETURN	System should display a detailed listing of the contents of the USB				
			7,5	folder within the AquaLite program folder, and the file named				1
				"POKE.BIN" should be listed in the contents. Note that the				1
				RETURN/ENTER key may have to be pressed one or more times to				
				scroll past the full list of contents.				
E-7.1.11.1	HW S1 + NO RTC	Test LOAD a BIN file	From the AquaLite menu, select File > Hard Reset, and then hit the	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next				
			RETURN/ENTER key to go to USB BASIC.	line with a cursor below.				
E-7.1.11.2	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit	System should display abcd in the middle of the screen, with Ok				
l .			RETURN: LOAD "POKE.BIN", \$3242	beneath the text you just typed.				1
	ı		LOND FORE.BIN", 93242					

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-7.1.12.1	HW S1 + NO RTC	Test RUN a ROM file	From the AquaLite menu, select File > Hard Reset, and then hit the	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next				
571100			RETURN/ENTER key to go to USB BASIC.	line with a cursor below.				
E-7.1.12.2	HW S1 + NO RTC		From the USB BASIC command screen type CD"ROMS" and hit RETURN	The cursor should move down one row and display Ok beneath.				
E-7.1.12.3	HW S1 + NO RTC	1	From the USB BASIC command screen type the code below and hit	System should load the SNAFU game ROM and display the SNAFU title				
			RETURN: RUN "SNAFU.ROM"	screen.				
E-7.1.12.4	HW S1 + NO RTC		From the AquaLite menu, select File > Hard Reset, and then hit the	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next				
			RETURN/ENTER key to go to USB BASIC.	line with a cursor below.				
E-7.1.13.1	HW S1 + NO RTC	Test DEBUG	From the USB BASIC command screen type DEBUG and hit RETURN	The AQUBUG screen should pop up with white text on a blue				
E-7.1.13.2	HW S1 + NO RTC		On the AQUBUG screen type the letter Q	background. System should return to the USB BASIC command screen, showing the				
				DEBUG command with Ok beneath.				
E-7.1.14.1	HW S1 + NO RTC	Test HEX\$	From the USB BASIC command screen type the code below and hit RETURN:	System should display 3000 on the next line with Ok beneath.				
			PRINT HEX\$ (12288)					
E-7.1.14.2	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit	System should display FF85 on the next line with Ok beneath.				
			RETURN: PRINT HEX\$(-123)					
E-7.1.14.3	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit	System should display FFFF on the next line with Ok beneath.				
			RETURN:					
E-7.1.15	HW S1 + NO RTC	Test IOV	PRINT HEX\$ (65535) From the USB BASIC command screen type the code below and try to	System should display 64 on the next line with Ok beneath. If you				\vdash
27.1.13	51 - 110 1110	1636361	type RETURN and the 1 key at about the same time (maybe a slight	weren't able to get it to work exactly right, a 0 might be displayed				
			delay before the 1 key): PRINT JOY(0)	instead of the 64. Try a couple of times to get it to work, if you can.				
E-7.1.16	HW S1 + NO RTC	Test IN	From the USB BASIC command screen type the code below and hit	System should display 247 on the next line with Ok beneath.				
			RETURN:	,,,,,				
E-7.1.17.1	HW S1 + NO RTC	Took DCC	PRINT IN (\$FF) From the USB BASIC command screen type the code below and hit	System should play a Db4 tone continuously.				\vdash
E-7.1.17.1	HW 31 + NO KIC	lest rad	RETURN:	system should play a DD4 tone continuously.				
			PSG 8,15,0,148,1,1,7,56					
E-7.1.17.2	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN:	System should stop playing the tone.				
			PSG 8,0,7,0					
E-7.1.18.1	HW S1 + NO RTC	Test OUT	From the USB BASIC command screen type the code below and hit	System should play a Db4 tone continuously and print Ok beneath.				
			RETURN: PSG 8,15,0,148,1,1,7,56					
E-7.1.18.2	HW S1 + NO RTC	1	From the USB BASIC command screen type the code below and hit	System should print Ok after each RETURN, and then should stop				
			RETURN after each line: OUT 247,8	playing the tone after the second.				
			OUT \$F6,0					
E-7.1.19.1	HW S1 + NO RTC	Test EDIT	From the AquaLite menu, select File > Hard Reset, and then hit the	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next				
E-7.1.19.2	HW S1 + NO RTC		RETURN/ENTER key to go to USB BASIC. From the USB BASIC command screen type the code below and hit	line with a cursor below. System should show each line typed, and move down to the empty				\vdash
E-7.1.19.2	HW 31 + NO KIC		RETURN:	line beneath.				
			10 REM Testing EDIT					
E-7.1.19.3	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN:	System should list the previously entered line 10 with a blue cursor and white text positioned over the R in the REM command.				
			EDIT 10	and write text positioned over the Nill the New Community.				
E-7.1.19.4	HW S1 + NO RTC		Within the line 10 edit with the cursor on the R of REM, press the	System should display line 10 with a SPACE between the 10 and the				
			SPACE bar to insert a space between the line number 10 and the REM statement.	REM command.				
E-7.1.19.5	HW S1 + NO RTC	1	Within the line 10 edit with the cursor on the R of REM, CTRL + /	System should list the previously entered line 10 with a blue cursor				
			eleven times so the cursor is on top of the SPACE after the word Testing.	and white text positioned over the SPACE after the word Testing.				
E-7.1.19.6	HW S1 + NO RTC	1	Within the line 10 edit with the cursor on the SPACE between the	System should list the previously entered line 10 with a blue cursor				
			word Testing and EDIT, press the DELETE/BACKSPACE key three times	and white text positioned over the SPACE before the word EDIT.				
			to delete the letters "ing" at the end of the word Testing.					
E-7.1.19.7	HW S1 + NO RTC	1	Within the line 10 edit with the cursor on the SPACE between the	The cursor should go to the line beneath line 10, and should NOT				
			word Test and EDIT, press CTRL + P eight times so the cursor is over	display Ok beneath.				
			the letter R in REM, and then hit RETURN/ENTER.					
E-7.1.19.8	HW S1 + NO RTC	1	From the USB BASIC command screen type the code below and hit	System should display a blank line, then list line 10 again, with Ok				
			RETURN: LIST 10	beneath.				
			P101 10		<u>l</u>	l		

Test No	Environment	Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-7.1.20.1	HW S1 + NO RTC	Test LOCATE	From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty				
			RETURN after each line:	line beneath.				i l
			10 CLS					i
			20 LOCATE 20,12					ĺ
			30 PRINT CHR\$(KEY(0))					i
E-7.1.20.2	HW S1 + NO RTC		From the USB BASIC command screen type RUN and hit RETURN	System should move the cursor to the middle of the screen.				
E-7.1.20.3	HW S1 + NO RTC		With the cursor in the middle of the screen, press the G key.	System should display a "g" in the middle of the screen, then go to the				
				next line and print Ok beneath.				i l
E-7.1.20.4	HW S1 + NO RTC		From the AquaLite menu, select File > Hard Reset, and then hit the	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next				
			RETURN/ENTER key to go to USB BASIC.	line with a cursor below.				1
			PLEASE CONTINUE I	EVEN IF ALL TESTS IN THIS SECTION DID NOT PAS	S.			

New Comr		T	i-	I	To a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco			T
Test No		Description	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-7.2.0		Test NEW commands						
E-7.2.1.1	HW S1 + NO RTC	Test POKE auto-increment	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-7.2.1.2	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN:	The screen should print abcd in a row towards the middle bottom of the screen.				
			POKE 12945,97,98,99,100	tile screen.				
E-7.2.2.1	HW S1 + NO RTC	Test POKE range	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-7.2.2.2	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291 TO \$3299,97	The screen should print aaaaaaaa (nine letter a's) in a row towards the middle bottom of the screen.				
E-7.2.3.1	HW S1 + NO RTC	Test POKE step	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-7.2.3.2	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291,97,STEP 40,97,STEP 40,97	The screen should print aaa (three letter a's) in a downward line at the middle bottom of the screen.				
E-7.2.4.1	HW S1 + NO RTC	Test POKE strings	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok.				
E-7.2.4.2	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291, "Hubba", STEP 40, "Bubba"	The screen should print the words Hubba Bubba stacked on top of each other at the middle bottom of the screen.				
E-7.2.5.1	HW S1 + NO RTC	Test COPY	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-7.2.5.2	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: COPY \$3000,\$3000+440,120	The text at the top of the screen ("USB BASIC v1.3" should be duplicated in the middle of the screen, with the Ok beneath the COPY command near the top.				
E-7.2.6.1	HW S1 + NO RTC	Test ATN	From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC.	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below.				
E-7.2.6.2	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT ATN (1)	System should display .785398 on the next line with Ok beneath.				
E-7.2.7.1	HW S1 + NO RTC	Test DEC	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-7.2.7.2	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT DEC ("55FF")	System should display 22015 on the next line with Ok beneath.				
E-7.2.8.1	HW S1 + NO RTC	Test DEEK	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-7.2.8.2	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (DEEK (12288+41))	System should display 684F on the next line with Ok beneath. (\$4F is the "O" character and \$6B is the "k" character from the top left of the screen.)				
E-7.2.9.1	HW S1 + NO RTC	Test DOKE	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-7.2.9.2	HW S1 + NO RTC		From the USB BASIC command screen type the code below and hit RETURN: DOKE 12288+41,\$6948	System should display Hi at the top left of the screen and show Ok beneath the DOKE command line. (\$48 is the "H" character and \$69 is the "i" character.)				

E-7.2.10.1 HW S1 + NO RTC E-7.2.10.2 HW S1 + NO RTC E-7.2.10.3 HW S1 + NO RTC E-7.2.10.4 HW S1 + NO RTC E-7.2.11.1 HW S1 + NO RTC E-7.2.11.2 HW S1 + NO RTC E-7.2.11.2 HW S1 + NO RTC E-7.2.12.1 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC E-7.2.14.6 HW S1 + NO RTC E-7.2.14.7 HW S1 + NO RTC E-7.2.14.8 HW S1 + NO RTC E-7.2.14.9 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC E-7.2.14.6 HW S1 + NO RTC E-7.2.14.7 HW S1 + NO RTC E-7.2.14.8 HW S1 + NO RTC E-7.2.14.9 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC	Process	Expected Results	Actual Results ("As Expected" ok)	Pass/Fail	Initials	Date/Time
E-7.2.10.3 HW S1 + NO RTC E-7.2.10.4 HW S1 + NO RTC E-7.2.11.1 HW S1 + NO RTC E-7.2.11.2 HW S1 + NO RTC E-7.2.11.3 HW S1 + NO RTC E-7.2.12.1 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-7.2.10.3 HW S1 + NO RTC E-7.2.10.4 HW S1 + NO RTC E-7.2.11.1 HW S1 + NO RTC E-7.2.11.2 HW S1 + NO RTC E-7.2.11.3 HW S1 + NO RTC E-7.2.12.1 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	Franch LICO DACIC commend commend to the conduction of the	Control of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta				
E-7.2.11.1 HW S1 + NO RTC E-7.2.11.2 HW S1 + NO RTC E-7.2.11.3 HW S1 + NO RTC E-7.2.12.1 HW S1 + NO RTC E-7.2.12.1 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	From the USB BASIC command screen type the code below and hit RETURN after each line:	System should show each line typed, and move down to the empty line beneath.				
E-7.2.11.1 HW S1 + NO RTC E-7.2.11.2 HW S1 + NO RTC E-7.2.11.3 HW S1 + NO RTC E-7.2.12.1 HW S1 + NO RTC E-7.2.12.1 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	10 CLS 42					
E-7.2.11.1 HW S1 + NO RTC E-7.2.11.2 HW S1 + NO RTC E-7.2.11.2 HW S1 + NO RTC E-7.2.11.3 HW S1 + NO RTC E-7.2.12.1 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	20 LOCATE 20,12 30 PRINT CHR\$(KEY(0))					
E-7.2.11.1 HW S1 + NO RTC E-7.2.11.2 HW S1 + NO RTC E-7.2.11.3 HW S1 + NO RTC E-7.2.12.1 HW S1 + NO RTC E-7.2.12.1 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	From the USB BASIC command screen type RUN and hit RETURN	System should clear the screen to GREEN letters on a PURPLE				
E-7.2.11.1 HW S1 + NO RTC E-7.2.11.2 HW S1 + NO RTC E-7.2.11.3 HW S1 + NO RTC E-7.2.12.1 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	From the OSB BASIC Command Screen type RON and mickeronin	background and move the GREEN cursor to the middle of the screen,				
E-7.2.11.1 HW S1 + NO RTC E-7.2.11.2 HW S1 + NO RTC E-7.2.11.3 HW S1 + NO RTC E-7.2.12.1 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC		waiting for input.				
E-7.2.11.2 HW S1 + NO RTC E-7.2.12.1 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	With the cursor in the middle of the screen, press the M key (without	System should display a "m" in the middle of the screen, then go to				
E-7.2.11.2 HW S1 + NO RTC E-7.2.12.1 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	the SHIFT key pressed). From the USB BASIC command screen type CLS and hit RETURN	the next line and print Ok beneath. System should clear the screen and show Ok .				
E-7.2.12.1 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC	The disc oss syste community server type ozes and menerom	System should dear the street and show ok.				
E-7.2.12.1 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	From the USB BASIC command screen type the code below and hit	System should display Ok beneath.				
E-7.2.12.1 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	RETURN, replacing "YYMMDDHHMMSS" with the current DateTime					
E-7.2.12.1 HW S1 + NO RTC E-7.2.12.2 HW S1 + NO RTC E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	settings: SDTM "YYMMDDHHMMSS"					
E-7.2.12.2 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	From the AquaLite menu, select File > Hard Reset.	The "Aquarius USB BASIC, v1.3" screen should be displayed with the				
E-7.2.12.2 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC		2017-06-12 11:00:00 shown at the bottom of the screen, and the				
E-7.2.12.2 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	From the USB BASIC command screen type CLS and hit RETURN	seconds should NOT be incrementing. System should clear the screen and show Ok .				
E-7.2.12.3 HW S1 + NO RTC E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	From the OSB BASIC command screen type CLIS and nickerokiv	System should clear the screen and show ok .				
E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	From the USB BASIC command screen type the code below and hit	System should display a string with the current date and time,				
E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	RETURN:	formatted YYMMDDHHMMSSCC, with Ok beneath.				
E-7.2.12.4 HW S1 + NO RTC E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	PRINT DTM\$ (0) From the USB BASIC command screen type the code below and hit	System should display a string with the current date and time,				
E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	RETURN:	formatted YYYY-MM-DD HH:MM:SS, with Ok beneath. Note that the				
E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	PRINT DTM\$(1)	Century is assumed to be 20, and the hours are in 24 hour format.				
E-7.2.12.5 HW S1 + NO RTC E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	From the USB BASIC command screen type the code below and hit	System should display a string with the current date, formatted YYYY-				
E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	RETURN:	MM-DD, with Ok beneath. Note that the Century is assumed to be 20.				
E-7.2.13.1 HW S1 + NO RTC E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	PRINT LEFT\$(DTM\$(1),10)	,				
E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC	From the USB BASIC command screen type the code below and hit	System should display a string with the current time, formatted				
E-7.2.13.2 HW S1 + NO RTC E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC	RETURN: PRINT RIGHT(DTM\$(1),8))	HH:MM:SS, with Ok beneath. Note that the hours are in 24 hour format.				
E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-7.2.13.3 HW S1 + NO RTC E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC						
E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	From the USB BASIC command screen type the code below and hit RETURN:	System should display 0103, with Ok beneath.				
E-7.2.13.4 HW S1 + NO RTC E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	PRINT HEX\$ (VER(0))					
E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	From the USB BASIC command screen type the code below and hit	System should display 1, with Ok beneath.				
E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	RETURN: PRINT VAL(LEFT\$(HEX\$(VER(0)),2))					
E-7.2.14.1 HW S1 + NO RTC E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	From the USB BASIC command screen type the code below and hit	System should display 3, with Ok beneath.				
E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	RETURN:	-,				
E-7.2.14.2 HW S1 + NO RTC E-7.2.14.3 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	PRINT VAL(RIGHT\$(HEX\$(VER(0)),2))					
E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	From the USB BASIC command screen type NEW and hit RETURN	System should display Ok beneath.				
E-7.2.14.4 HW S1 + NO RTC E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC	From the USB BASIC command screen type CLS and hit RETURN	System should clear the screen and show Ok .				
E-7.2.14.4 HW S1 + NO RTC E-7.2.14.5 HW S1 + NO RTC						
E-7.2.14.5 HW S1 + NO RTC	From the USB BASIC command screen type the code below and hit	System should show each line typed, and move down to the empty				
E-7.2.14.5 HW S1 + NO RTC	RETURN after each line: 10 DEF FN A(X) = X+7	line beneath.				
E-7.2.14.5 HW S1 + NO RTC	20 PRINT FN A(9)					
E-7.2.14.5 HW S1 + NO RTC	30 PRINT FN A(20)					ļ
	From the USB BASIC command screen type RUN and hit RETURN	System should print 16 on one line, 27 beneath it, with Ok beneath the				
	From the USB BASIC command screen type the code below and hit	27. System should print 14, with Ok beneath.				
E-7.2.15 HW S1 + NO RTC TESTING COMPLETE	RETURN:	-,				
E-7.2.15 HW S1 + NO RTC TESTING COMPLETE	PRINT FN A(7)					<u> </u>
	From the AquaLite menu, select File > Hard Reset, and then hit the	The "USB BASIC v1.3" on the next line, followed by "Ok" on the next				
	RETURN/ENTER key to go to USB BASIC.	line with a cursor below. VEN IF ALL TESTS IN THIS SECTION DID NOT PAS.				