



## Amber Bioamp Test Fixture and Software Test Tool V&V Test Script

990-03842-00  
Rev 1

Test Step	Validation Description	Bioamp Test Fixture Requirement	PASS / FAIL
Execution sign off by Operator 1			
1.0	Power on the Test Laptop and log-in with Login credentials	2.3.19	PASS
2.0	Attach the Barcode - bluetooth dongle to the Test Laptop and connect the Barcode Reader.	2.3.14 2.4.1	PASS
3.0	Attach test adapter. Press down firmly to ensure it is fully seated on bioamp.	2.1.7	PASS
4.0	Connect and power Bioamp to Laptop - Connect USB cable (B side) to Data port on Bioamp and USB (A side) to computer. This will power up the PCB (green LED illuminated).	2.3.15 2.3.24	PASS
5.0	Double click "io-test" icon from desktop to open test script	2.3.2 2.3.23	PASS
6.0	The script executable displays the current date time on the Terminal window display for the Test Tool software.	2.3.17	PASS
7.0	If the configuration file for the 32_channel.config is the only file, the system will automatically load the configuration file. Otherwise, enter the configuration file for the DUT. C:\Users\LabTech\Downloads\io-test\32_channel.config when	2.3.6.3 1.1.11 2.3.1	PASS



## Amber Bioamp Test Fixture and Software Test Tool V&V Test Script

990-03842-00  
Rev 1

	prompted		
8.0	Bioamp Port displayed that is connected to the Bioamp DUT.	2.3.5	PASS
9.0	Scan barcode as prompted on screen.	2.3.4 2.4.2 2.4.3 2.4.5 2.4.6 2.4.7	PASS
10.0	Return bioamp to upright position on table. Press down on test adapter to ensure solid connection to bioamp. Hit "Enter" to initiate test.	2.3.20 2.3.26	PASS
11.0	Test results will populate as pass or fail for each of the 32 channels.  Channel tested Amplitude received Expected Amplitude based on configuration. Frequency received Expected Frequency based on configuration PASS / FAILS  displays ALL CHANNELS PASSED (or FAILED if errors encountered)  Log file directory on Test Laptop desktop created (first time) and Log file from Test execution is created in directory. <barcode id><timestamp>.LOG	2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.1.6 2.1.8 2.1.9 2.1.10 2.3.10 2.3.11 2.3.12 2.3.8 2.3.16 2.3.21 2.3.22 2.3.7 2.3.13 2.3.16	PASS



## Amber Bioamp Test Fixture and Software Test Tool V&V Test Script

990-03842-00  
Rev 1

	CSV file from Test execution is created in the directory. <barcode id><timestamp>.CSV		
12.0	Exit Test script by either selecting the 'x' on the upper right corner of the Terminal Window or selecting 'ctrl + shift + w' on the keyboard  OR  Select Relaunch to execute another test - <i>navigate to step 2.4.7</i>	2.3.18	PASS
Issues Description:  NONE			



## Amber Bioamp Test Fixture and Software Test Tool V&V Test Script

990-03842-00  
Rev 1

### Bioamp Gage R&R Summary Log

Instructions: Record test log ID for each of the tests specified below

	Operator 1	Operator 2	Operator 3
Name:	Natalie	Gabby	Zoey
Date Conducted	6/6/19	6/7/19	6/10/19
<b>Bioamp 1 S/N: B19051601</b>			
Trial 1	940411	864034	071879
Trial 2	739935	594856	176006
Trial 3	800784	702386	688996
<b>Bioamp 2 S/N: B19051603</b>			
Trial 1	370533	362213	078045
Trial 2	106946	671915	427389
Trial 3	305030	172862	177391
<b>Bioamp 3 S/N: B19051604</b>			
Trial 1	626181	404984	119431
Trial 2	164953	417798	963102
Trial 3	993512	248229	419992
<b>Bioamp 4 S/N: B19051602</b>			
Trial 1	337206	449294	796945
Trial 2	743822	982308	583431
Trial 3	927557	085114	944251
<b>Bioamp 5 S/N: B19051605</b>			
Trial 1	238502	813186	486450
Trial 2	050227	685969	269020



# Amber Bioamp Test Fixture and Software Test Tool V&V Test Script

990-03842-00  
Rev 1

Trial 3	248326	049846	898093
<b>Bioamp 6 S/N: B19012204</b>			
Trial 1	330531	445519	733760
Trial 2	991005	271289	265432
Trial 3	867629	206426	690880
<b>Bioamp 7 S/N: B19021206</b>			
Trial 1	611719	787270	623255
Trial 2	268512	185382	771596
Trial 3	782651	259078	436168
<b>Bioamp 8 S/N: B19012203</b>			
Trial 1	560710	904606	829216
Trial 2	285487	873578	248536
Trial 3	194629	071764	803864
<b>Bioamp 9 S/N: B19021207</b>			
Trial 1	965066	097019	123356
Trial 2	304936	468942	176417
Trial 3	696832	799966	607817
<b>Bioamp 10 S/N: B19012202</b>			
Trial 1	914792	207803	892265
Trial 2	662080	642480	118150
Trial 3	376015	832953	831839



## Amber Bioamp Test Fixture and Software Test Tool V&V Test Script

990-03842-00  
Rev 1

Issues / Failures
TF19041601

### Operator 1:

Name:	Natalie Lista	Role:	Quality Assurance Tester
Signature:	<i>Natalie Lista</i>	Date:	6/6/2019

### Operator 2:

Name:	Gabriella Levine	Role:	Quality Assurance Tester
Signature:	<i>Gabriella Levine</i>	Date:	6/7/2019

### Operator 3:

Name:	Zoey Zweber	Role:	Quality Assurance Tester
Signature:	<i>Zoey Zweber</i>	Date:	6/10/19

### Reviewer:

Name:	Christopher Franklin	Role:	Quality Assurance Reviewer
Signature:	<i>Christopher Franklin</i>	Date:	6/20/2019

Revision History		
Rev	Description Of Change	Effective Date
1	Initial Release	5/28/2019