**Assembly Test Form for**

**Preventative Maintenance for**

**ExactVu Transducers**

# Test Execution Summary

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| --- | --- |
| **Test Date:** | 11/07/2023 |
| **Tester Name:** | Jorge Fernandez + Denis CHARLET |
| **ExactVu System S/N:** | 6127 220011 |
| **EV29L Transducer S/N (if applicable):** | 6089220037 |
| **EV9C Transducer S/N (if applicable):** |  |
| **EV5C Transducer S/N (if applicable):** |  |

# Test Equipment Used

| **Test Equipment** | **Model** | **Part Number** | **Serial Number** |
| --- | --- | --- | --- |
| Keyboard | N/A | N/A | N/A |
| Gel | N/A | N/A | N/A |
| Kimwipe | N/A | N/A | N/A |

***Notes:***

* All test equipment shall have up-to-date calibration in accordance with ISO 13485:2016 requirements.
* Carefully observe proper Electrostatic Discharge Controls using grounding cord and wrist strap where applicable. Test grounding cord and wrist strap before using.

# Test Results

Test number corresponds to Assembly Test Procedure number.

## Preventative Maintenance for ExactVu Transducers and System

| **Test #** | **Pass Criteria** | **Pass/ Fail** | **Comments** |
| --- | --- | --- | --- |
| **5.1** Initial Inspection | * Transducer’s lens, handle, cable, connector housing, cable joints, pins are free of damage and dirt. * Transducer has no cracks or openings in the transducer housing and connector, no scratches, and no holes in and around the acoustic lens or other damage that could allow liquid entry * Black connector pin cover is present. * Techboard buttons, gain knob, and TGC curve work as expected. * System has no damage. | P  P  P  P  P |  |
| **5.2** System Element Testing | 0 dead elements for the system | F | Record # of dead elements: 4 |
| **5.3.1** EV29L Element Testing | * Less than 7 dead elements in total   + < 5 dead elements in total at both array ends (sum of element 1-8 & element 506-512)   + < 5 dead elements in the middle of the array (Elements 9-505)   + < 4 dead elements per aperture.   (manufacturing criteria)  Number of dead elements does not change with cable movement  Number of dead elements does not change when pushing on connector | P | Record # of dead elements: 4  No  Connector screw adjusted?  (check one): Y:  N: No |
| **5.3.2** EV9C Element Testing (if applicable) | < 3 dead elements  (manufacturing criteria)  Number of dead elements does not change with cable movement  Number of dead elements does not change when pushing on connector | NA | Record # of dead elements:  Connector screw adjusted?  (check one): Y:  N: |
| **5.3.3** EV5C Element Testing (if applicable) | < 3 dead elements  (manufacturing criteria)  Number of dead elements does not change with cable movement  Number of dead elements does not change when pushing on connector | NA | Record # of dead elements:  Connector screw adjusted?  (check one): Y:  N: |
| **5.5** Image Quality Test | Test cases passed according to the ATP for Image Quality Testing for system | P | Attach test results |
| **5.6** Testing the EV29L Transducer Cable | No change versus # of element recorded in step 5.3.1 | P | Record # of dead elements: 0 |
| **5.7 Checking the EV29L Transducer Seam** | Seam has minor or no staining  Twisting pressure does not separate the transducer seam | P | Comment on staining: |
| **5.8** Other Inspections | * Other ExactVu accessories such as reusable needle guides and stepper are free of damage and are clean. * Transducers are stored and handled properly (transducer lens is protected, cable is not twisted, and connector housing is covered with pin cover when handled). | NA  P |  |

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| **Tester Signature:** | **Jorge F.**  **Denis C.** | **Completion Date:** | **11/07/2023** |

**Revision History**

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| --- | --- | --- | --- |
| **Date** | **Author** | **Revision** | **Description of Change** |
| 19 Sept 2019 | V. Kouznetsov | 1.1 | Initial revision. Based on ATF for PM for ExactVu Transducer for EV2.5.5 Rev 1.0, removed EV2.5.2 from the name and added Rev history box |
| 09 Mar 2021 | R. Daling | 1.2 | Re-numbered sections to align with updated ATP  Moved signature to end of document  Removed # of dead elements from manufacturing DHR  Added detail to initial inspection section  Removed ExactVu version from title  Added connector locking screw test |
| 4 Oct 2022 | K. Dunn | 1.3 | Renamed section 5.7 to 5.8  Added new section 5.7 for EV29L Transducer Seam Evaluation |