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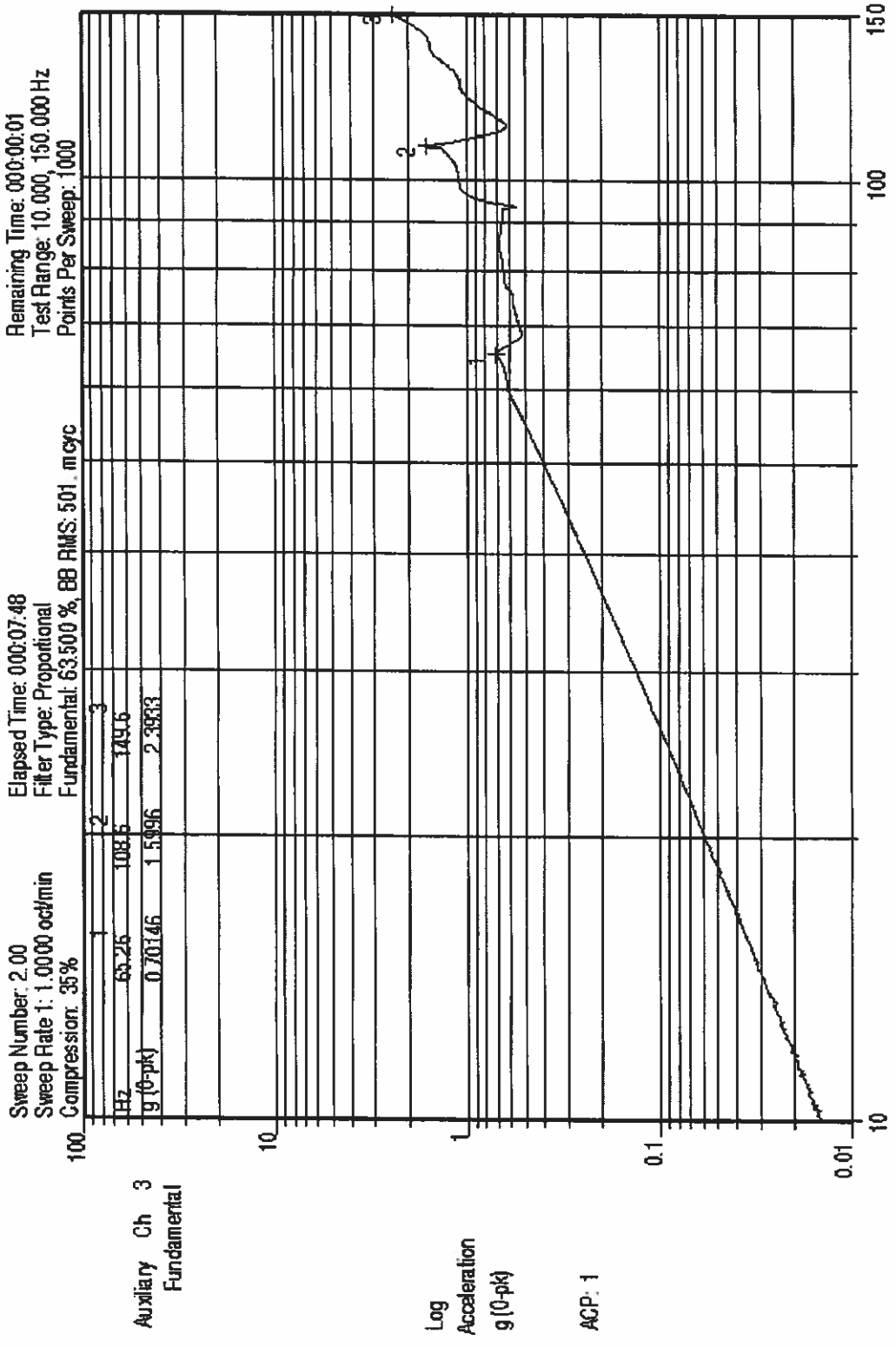

Fig. B2.8.

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Representante Legal

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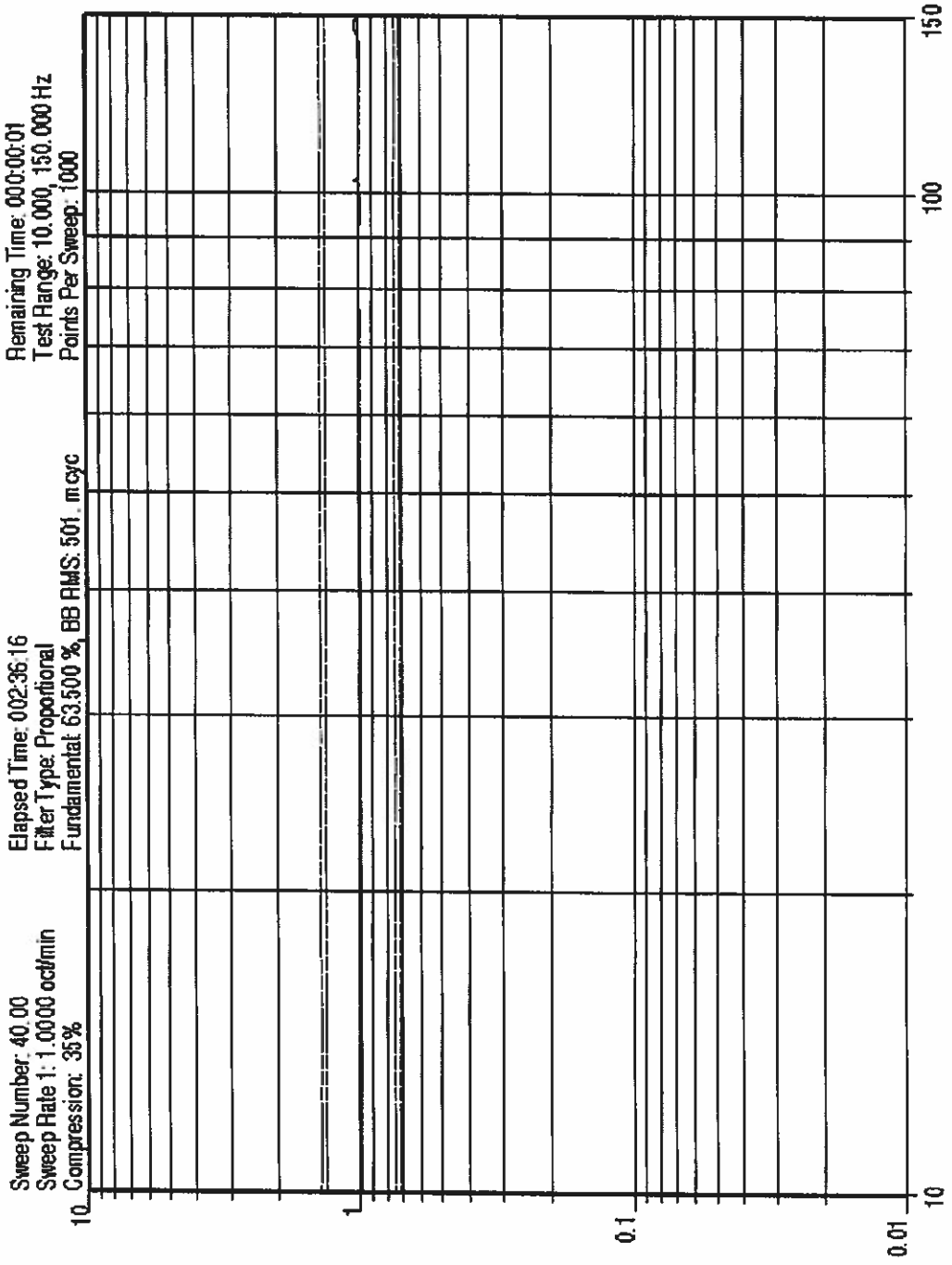

Fig. B2.9.

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Representante Legal

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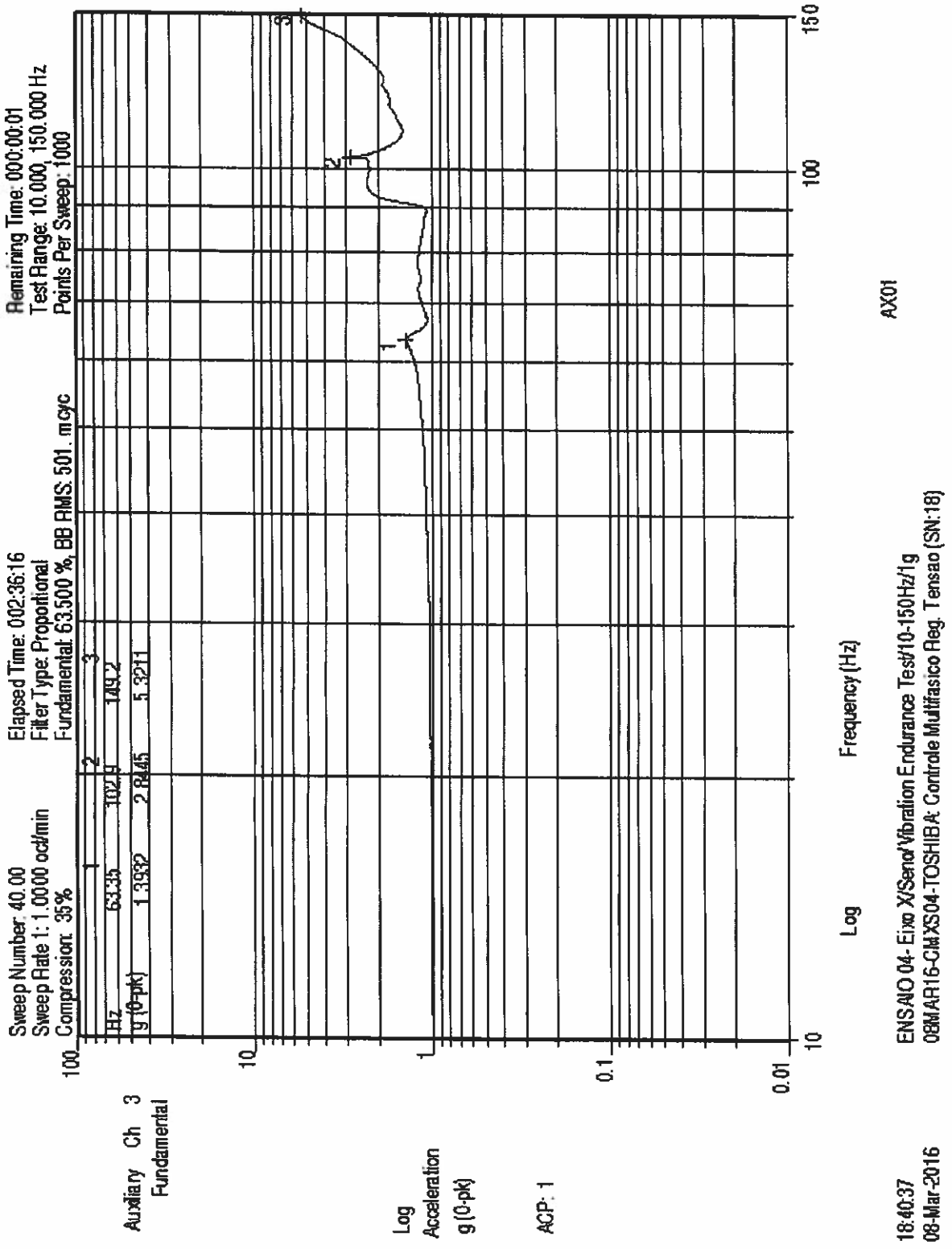

Fig. B2.10.

RODOLFO PEREZ
Representante Legal
ELECTROPAR S.A.

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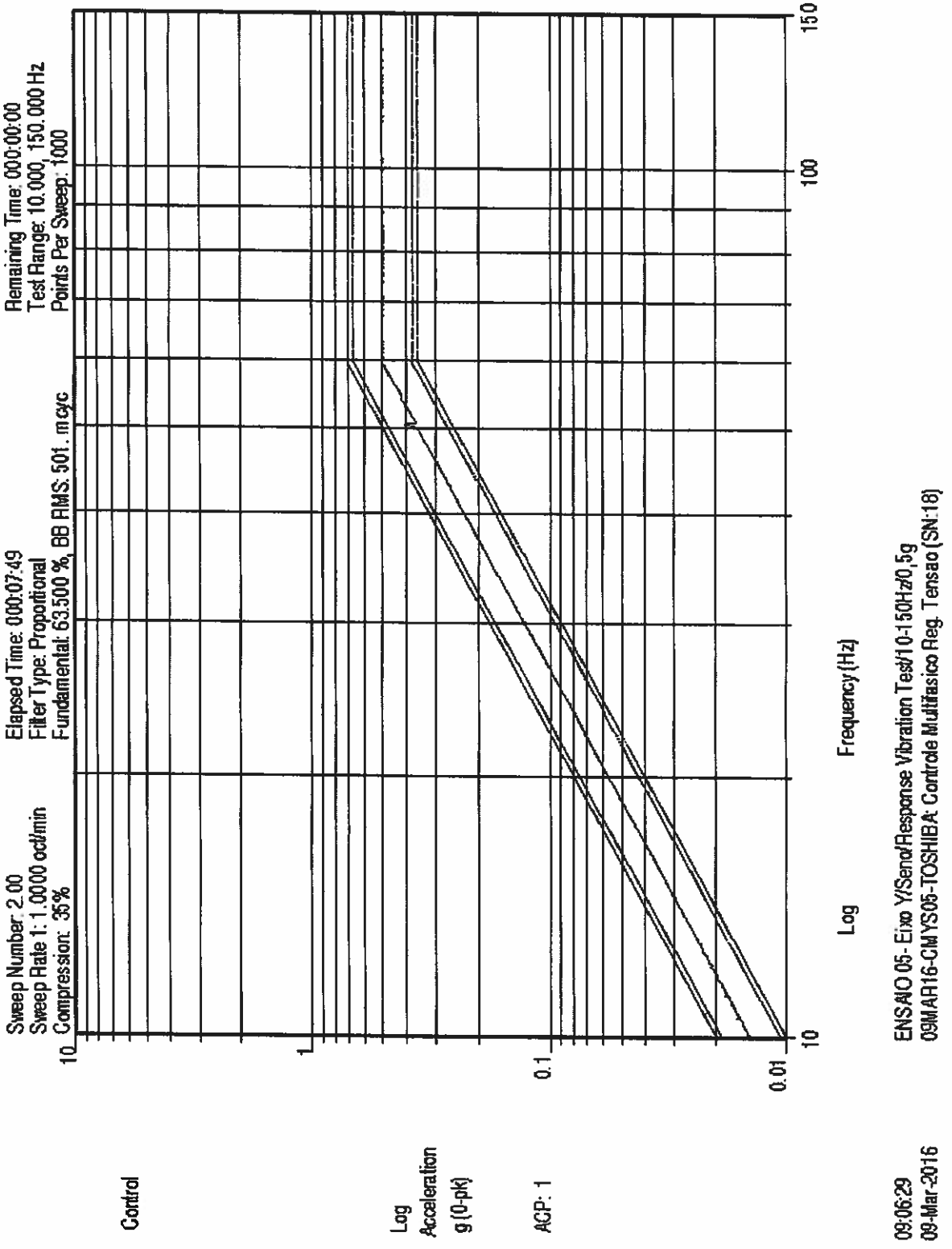

Fig. B2.11.

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Representante Legal

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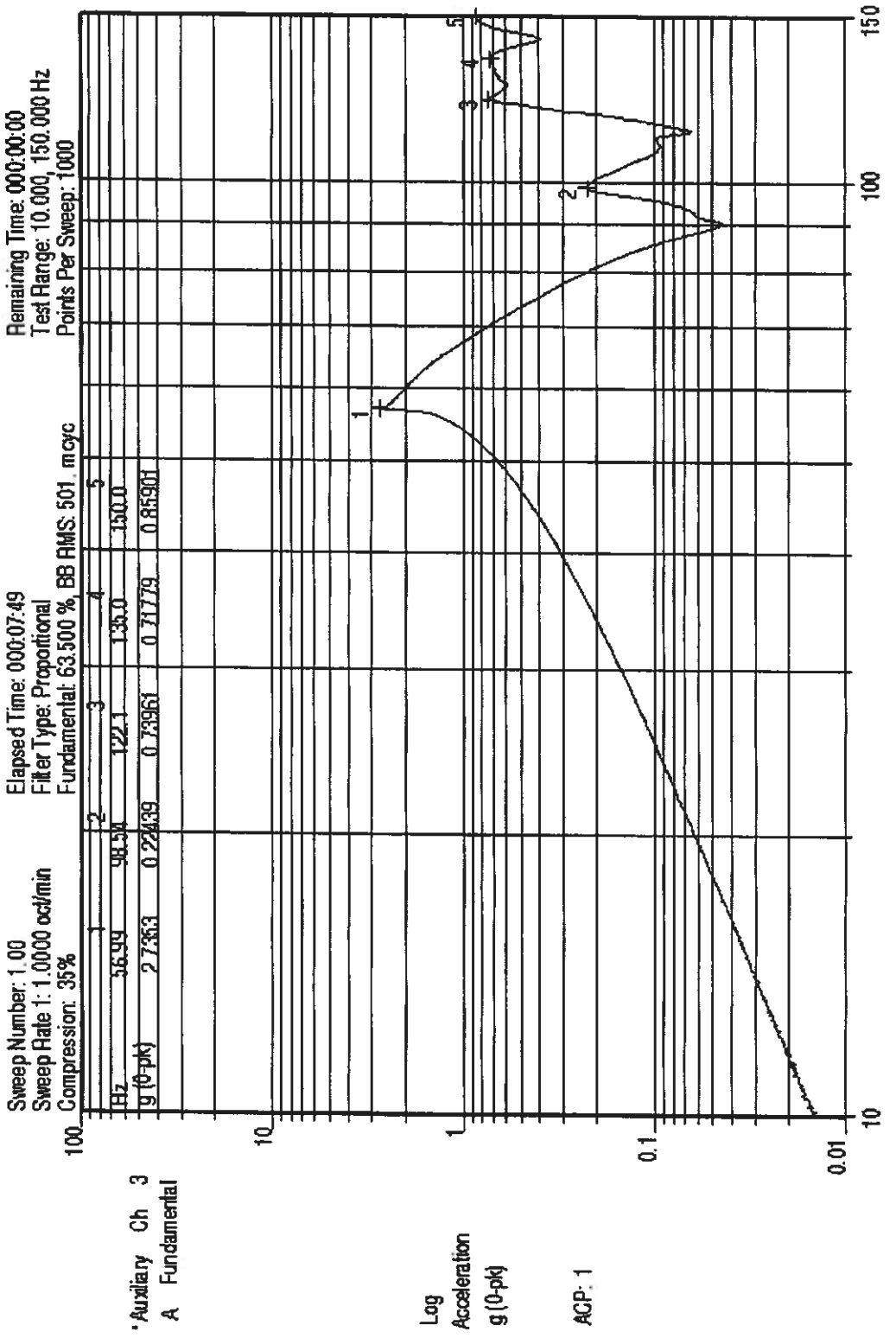

Fig. B2.12.

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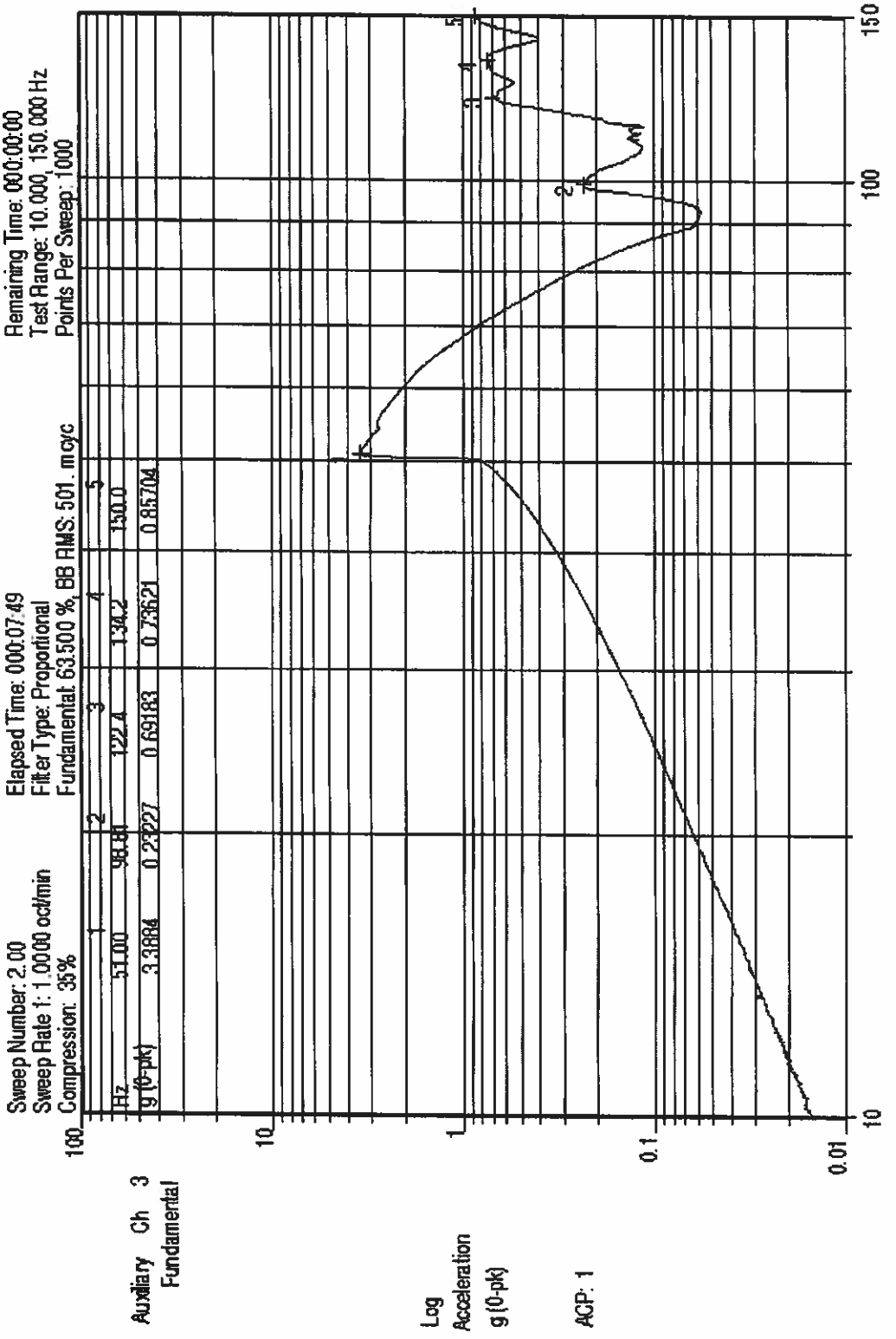

Fig. B2.13.

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ELECTROPAR S.A.

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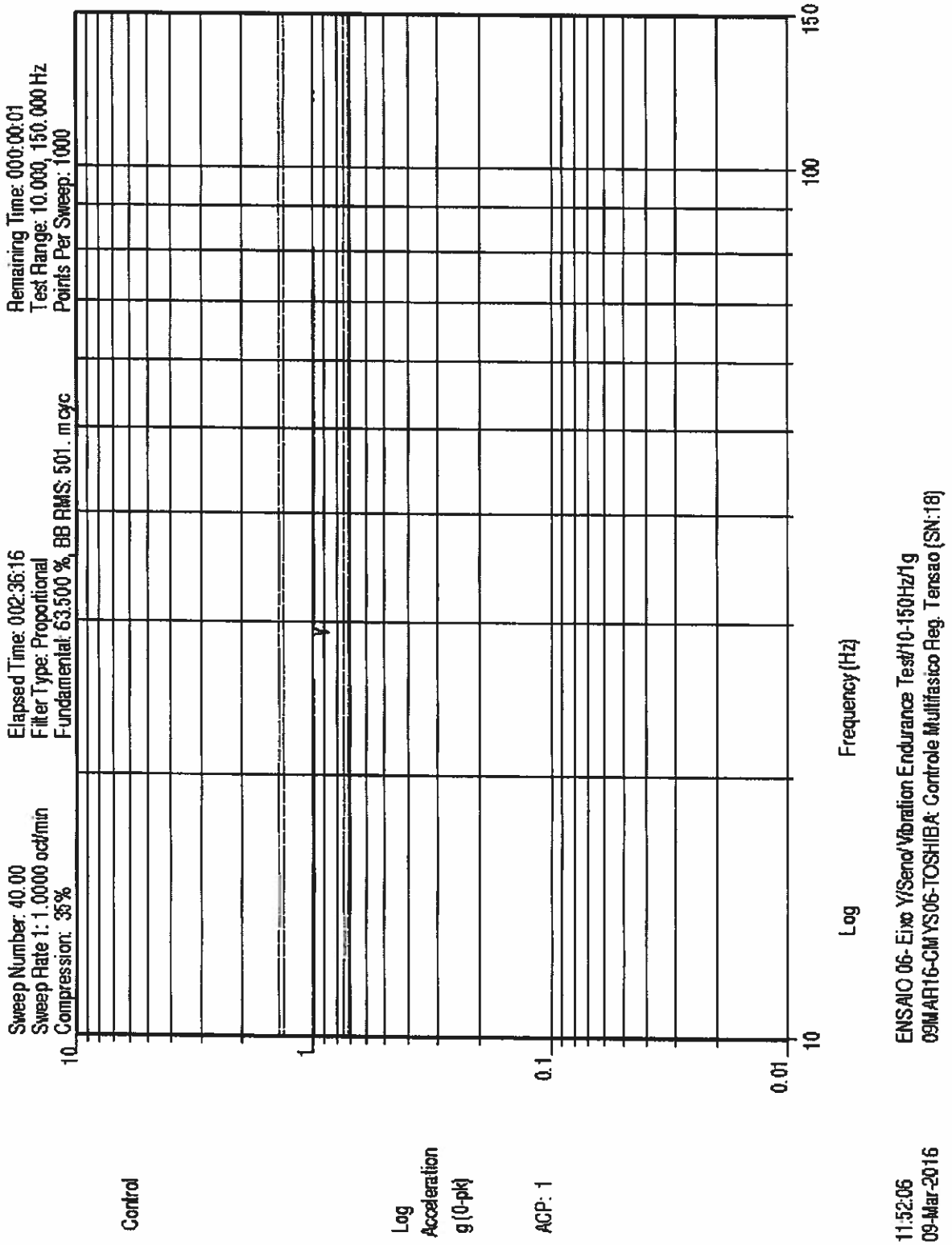

Fig. B2.14.

RODOLFO PERINI
Representante Legal
ELECTROPAR S.A.

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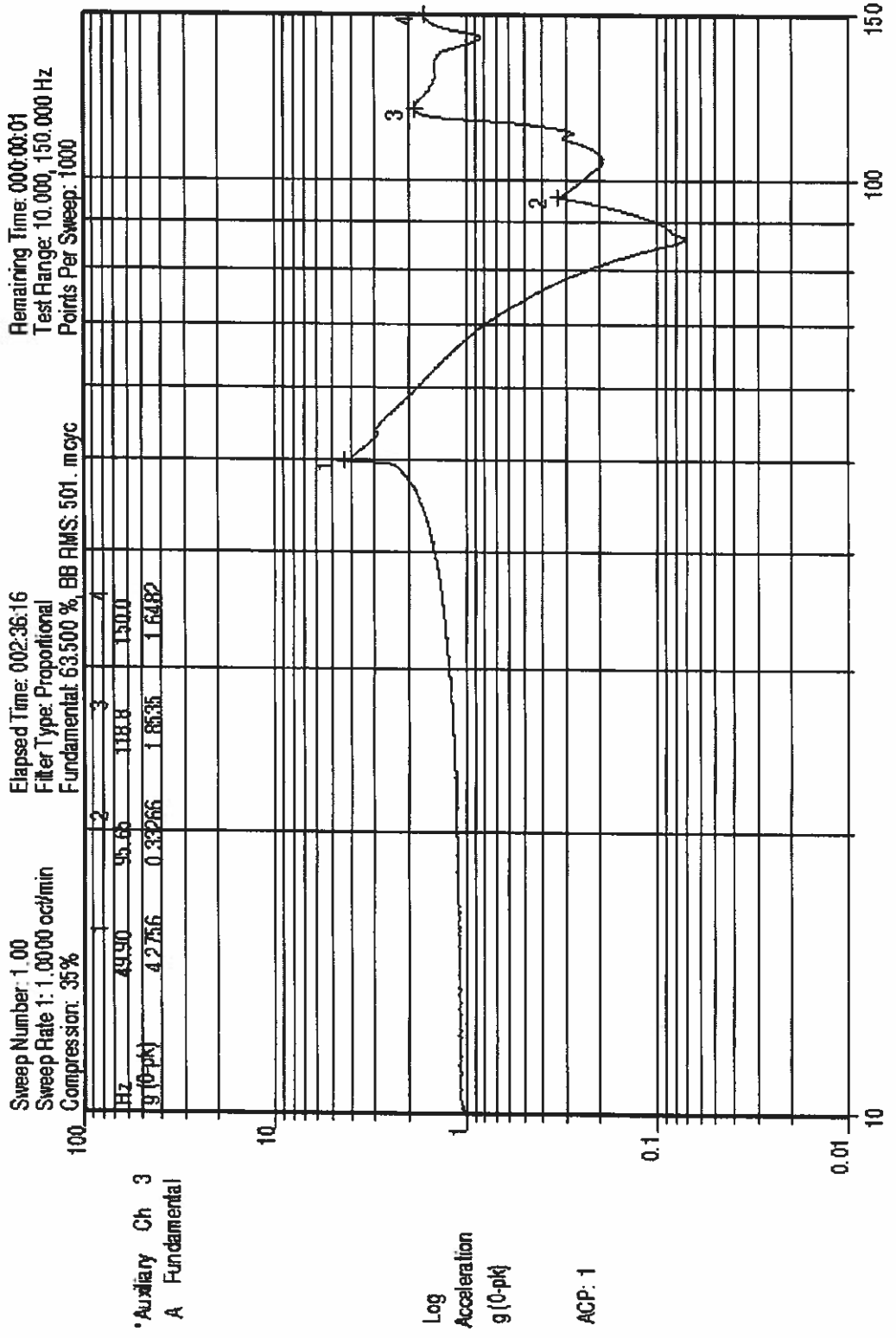

Fig. B2.15.

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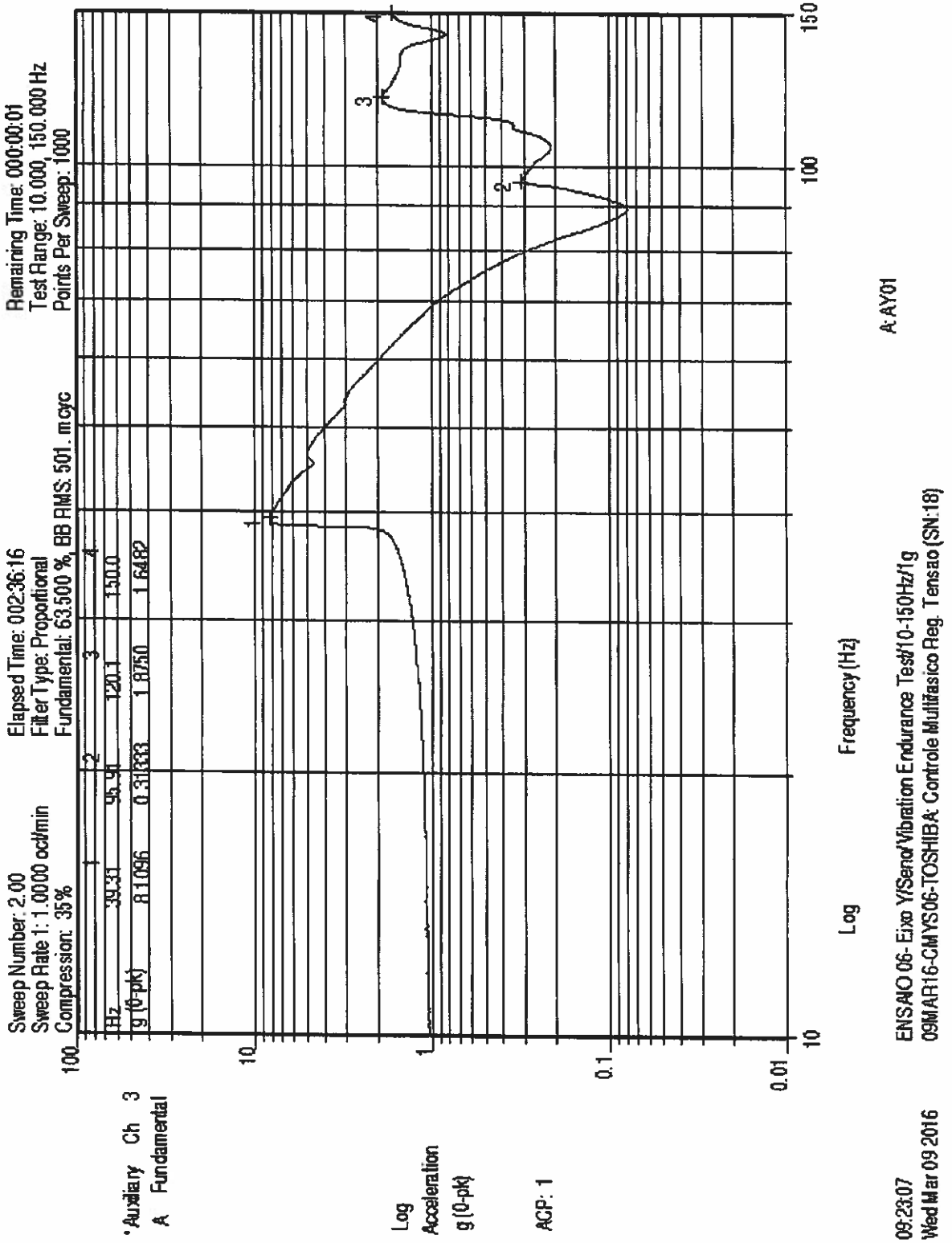

Fig. B2.16.

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Representante Legal
ELECTROPAR S.A.

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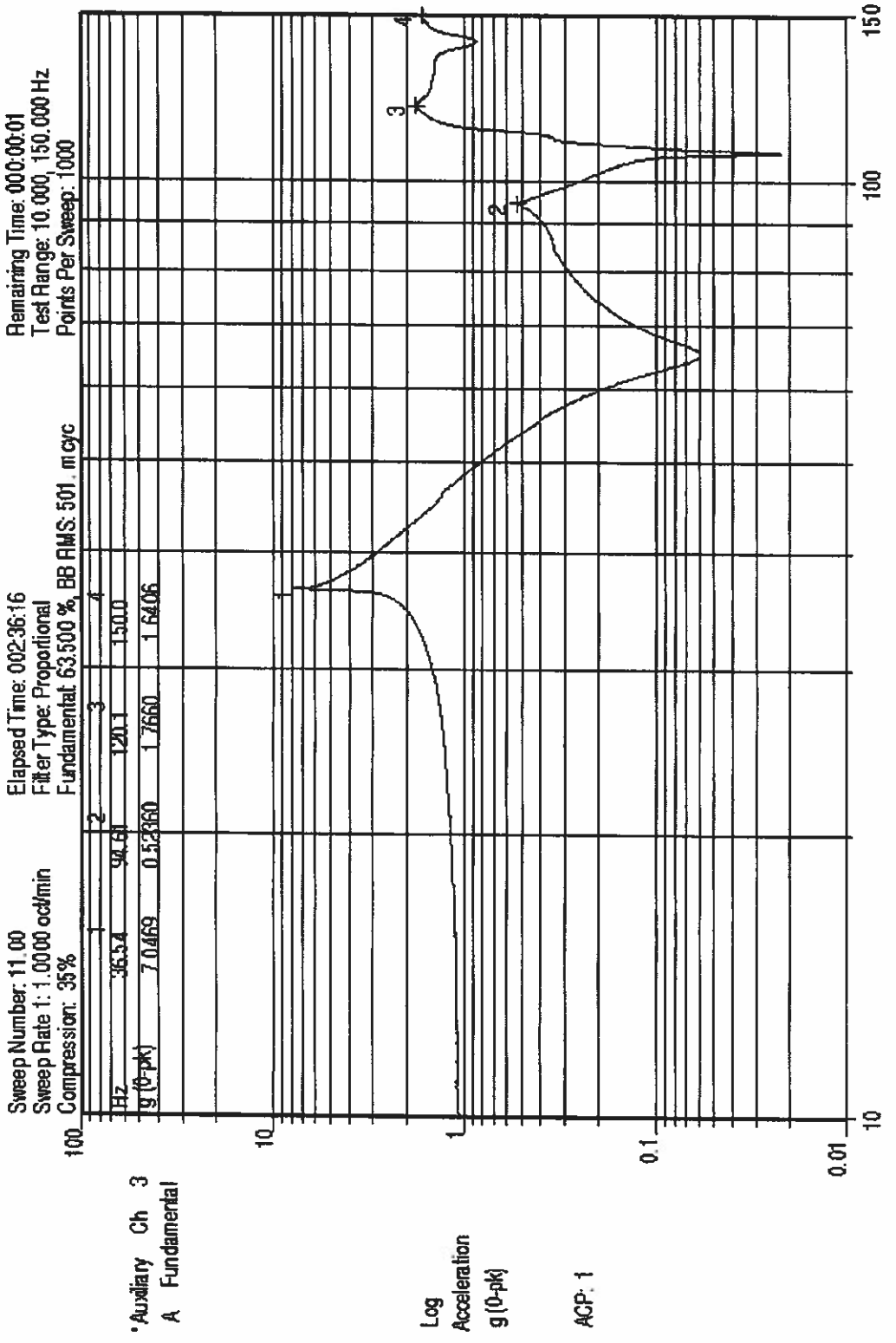

Fig. B2.17.

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Representante Legal
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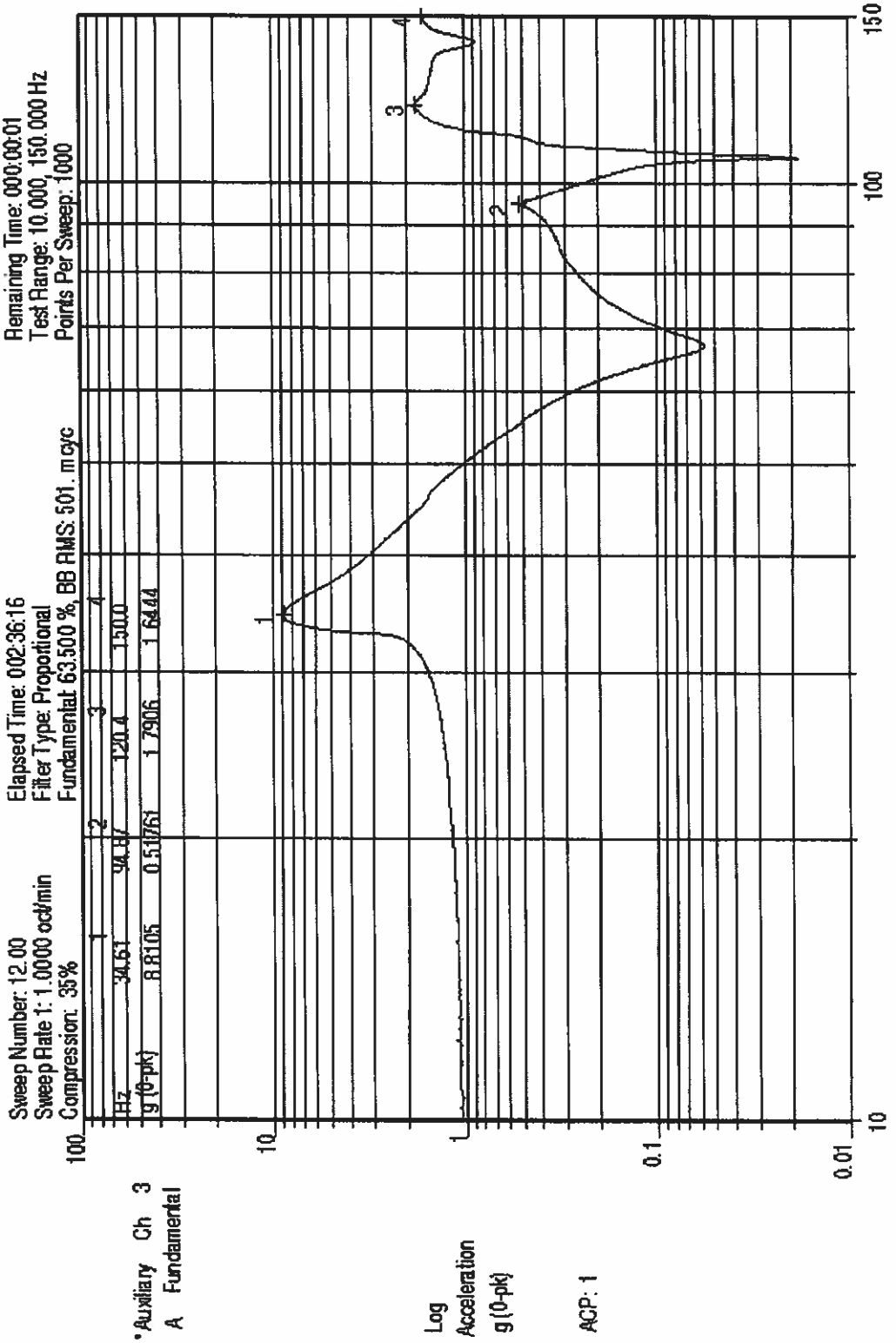

Fig. B2.18.

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Representante Legal
ELECTROTAR S.A.

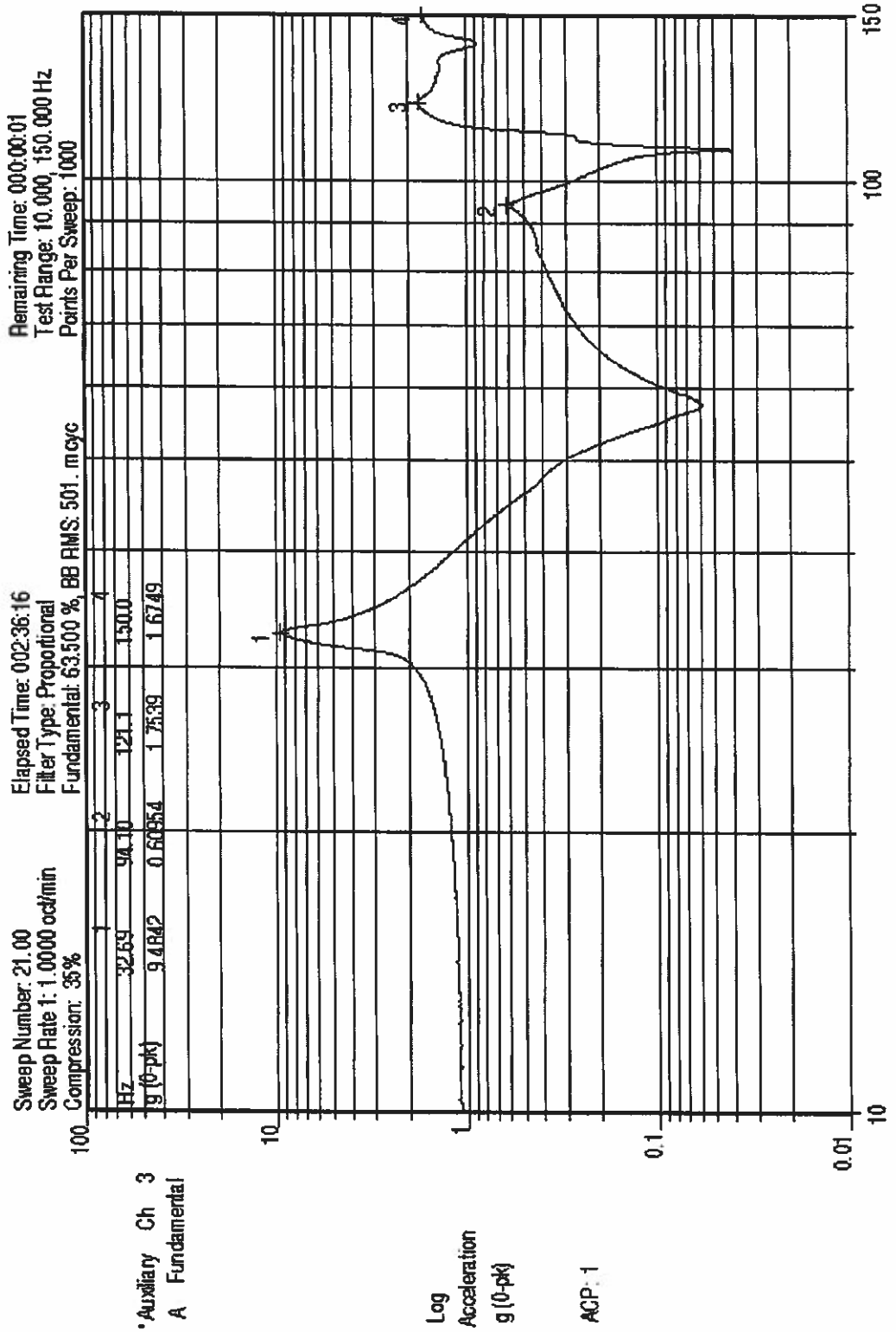

Fig. B2.19.

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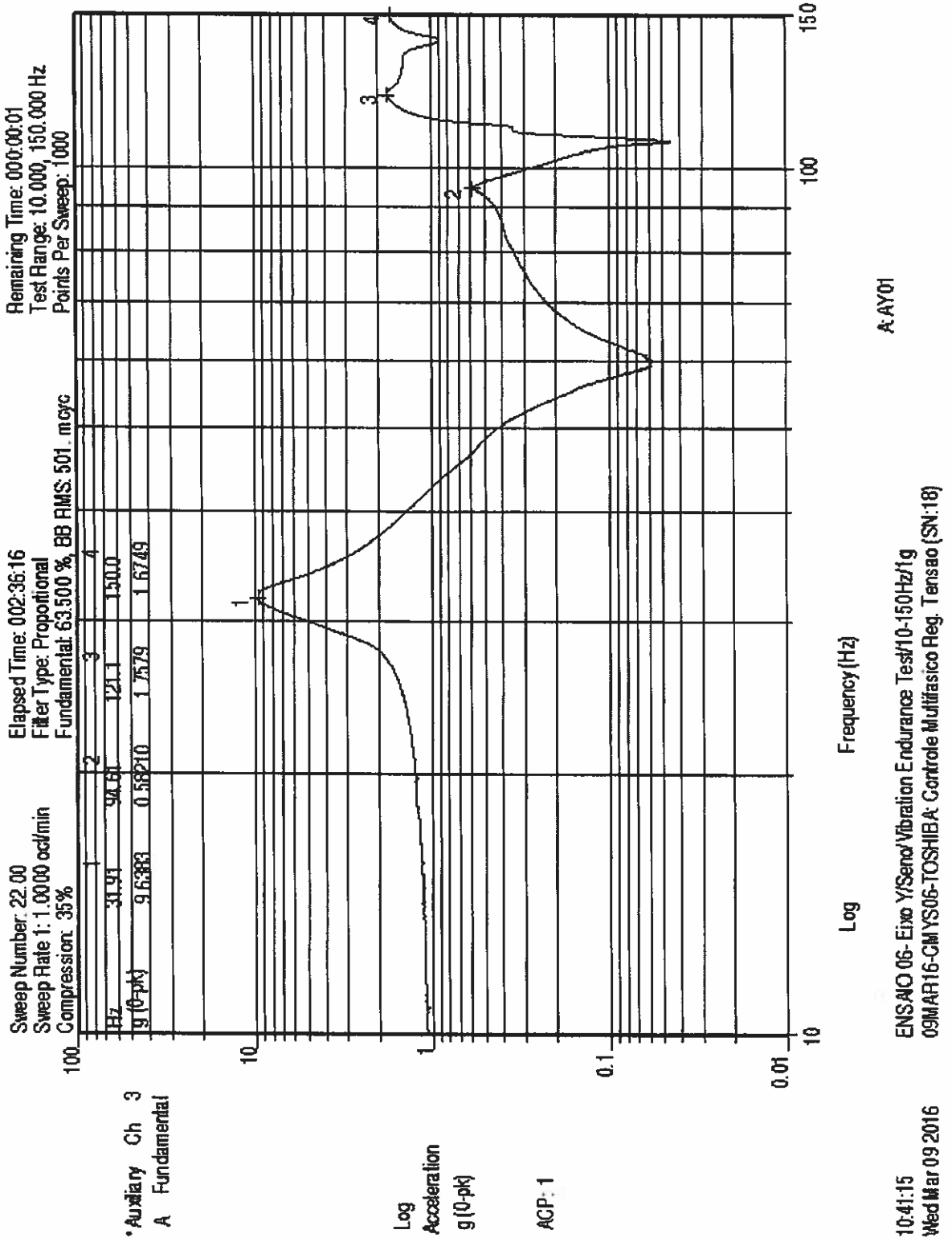

Fig. B2.20.

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Representante Legal

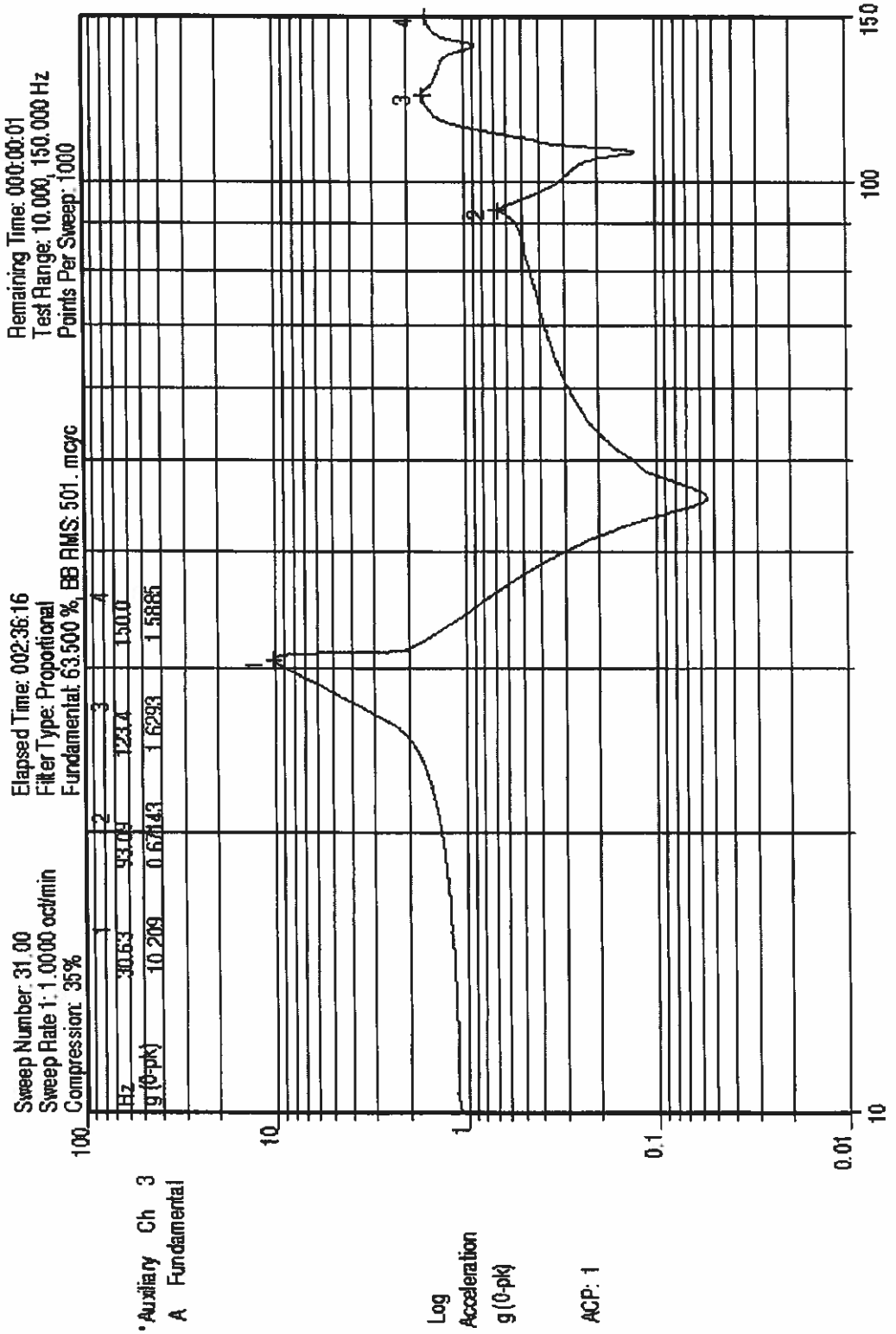

Fig. B2.21.

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Representante Legal

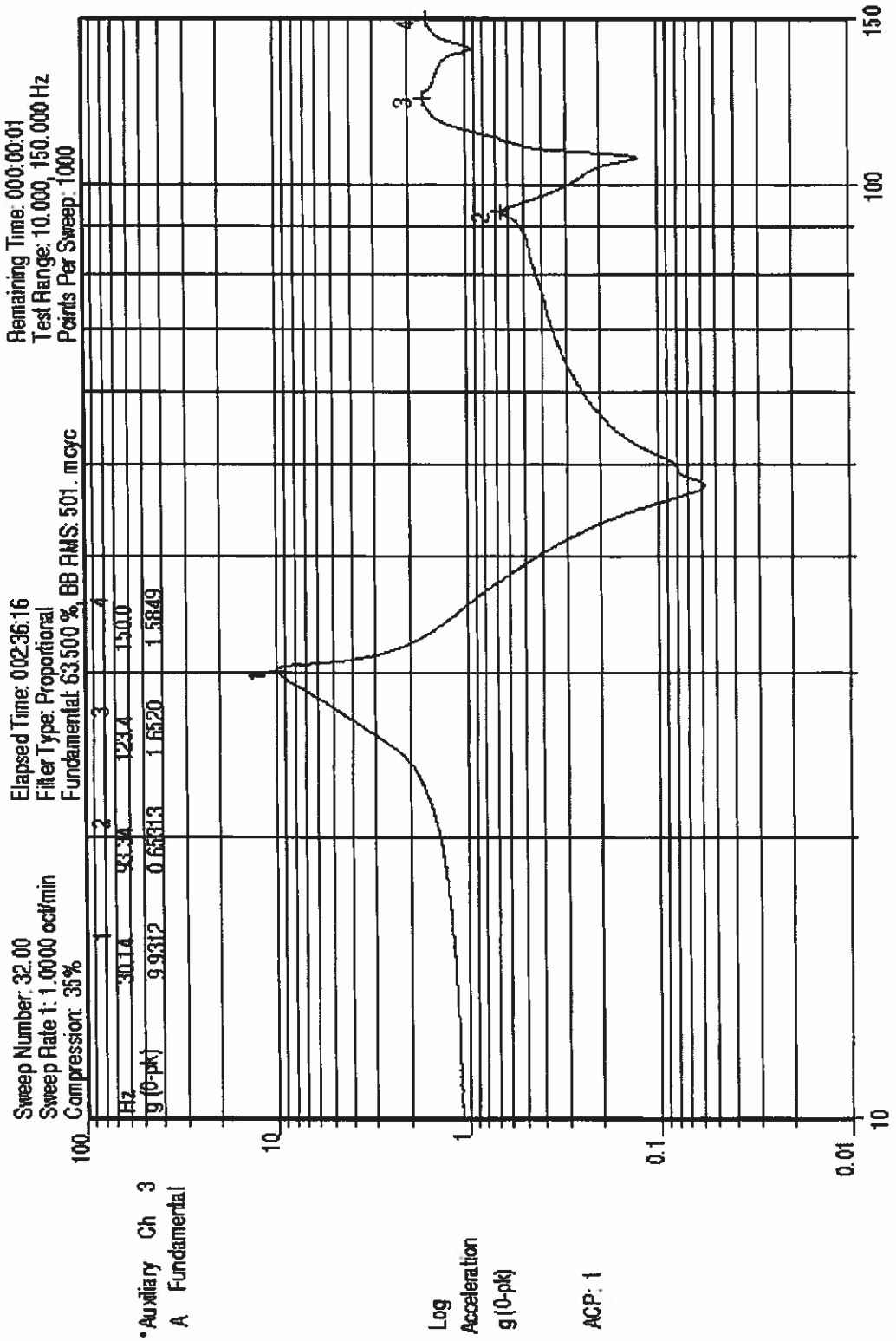

Fig. B2.22.

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Representante Legal

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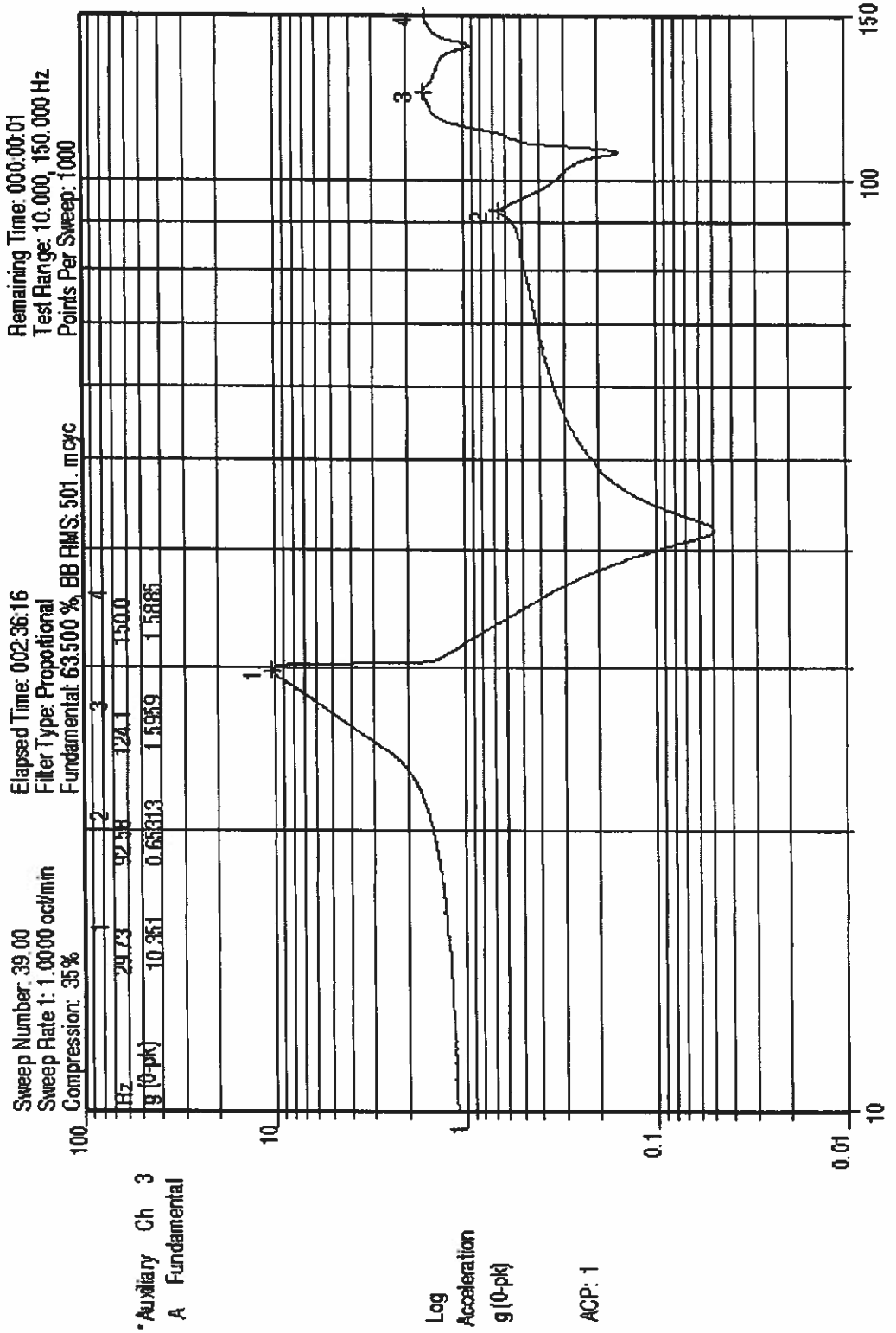

Fig. B2.23.

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Representante Legal

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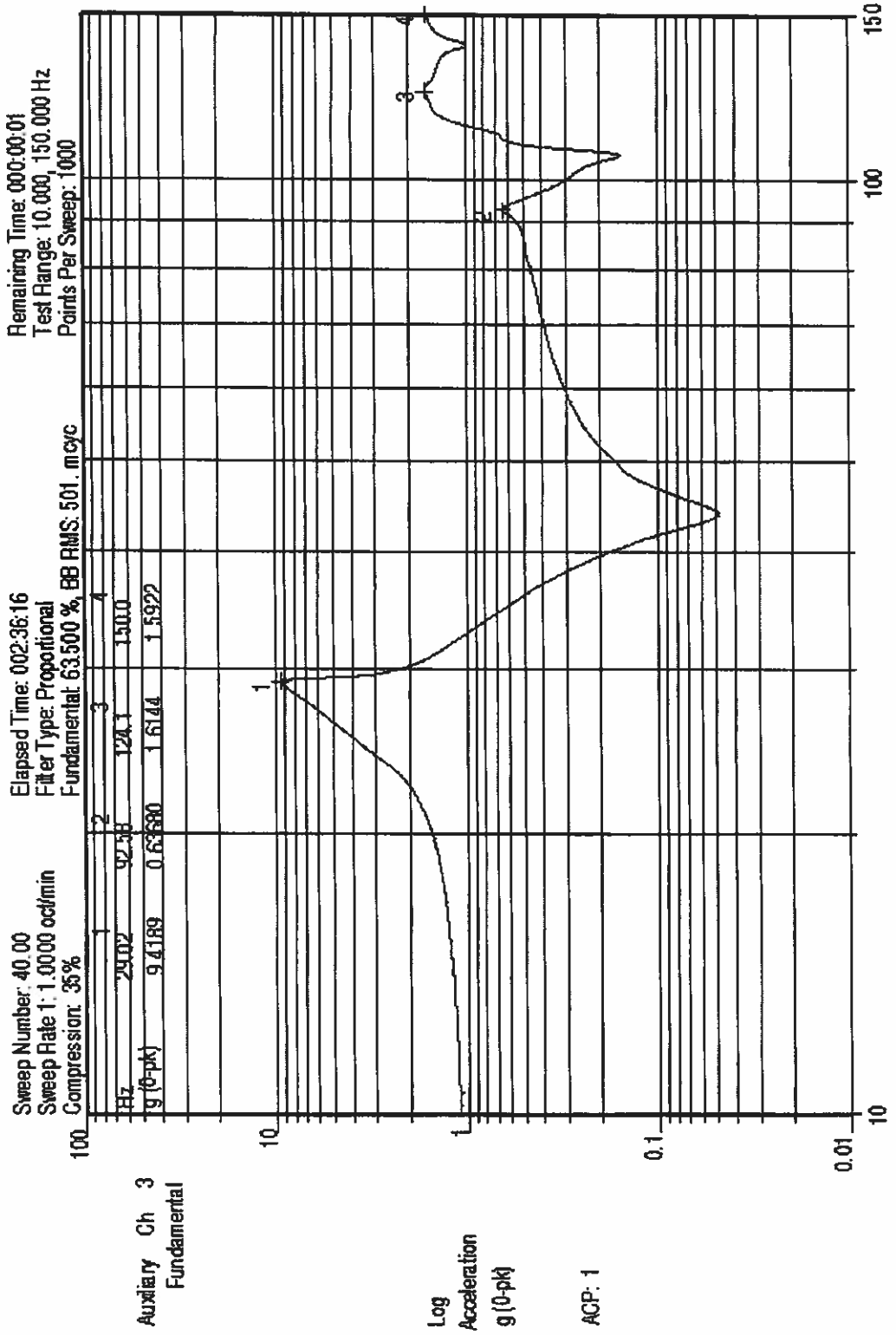

Fig. B2.24.

RODOLFO PEREZ

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APPENDIX C

PICTURES FROM THE TEST SETUP, AND FROM THE CONTROL & MEASURING INSTRUMENTATION

RODOLFO PEREZ
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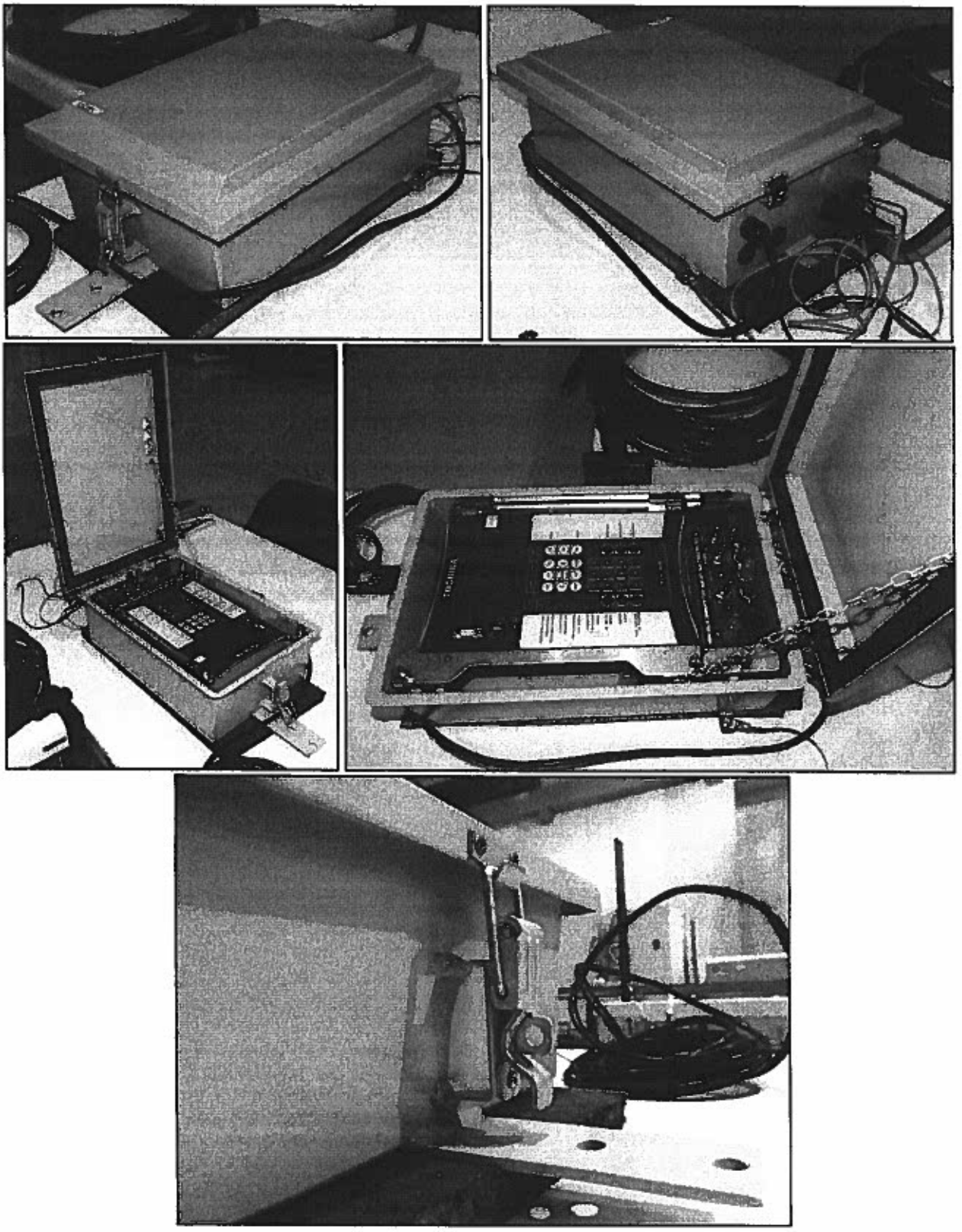

PHOTO 01 - Overviews of the test sample (Electronic Control for Single-Phase Voltage Regulators model TVC-MP) that was submitted to the vibration tests and the door latch detail.

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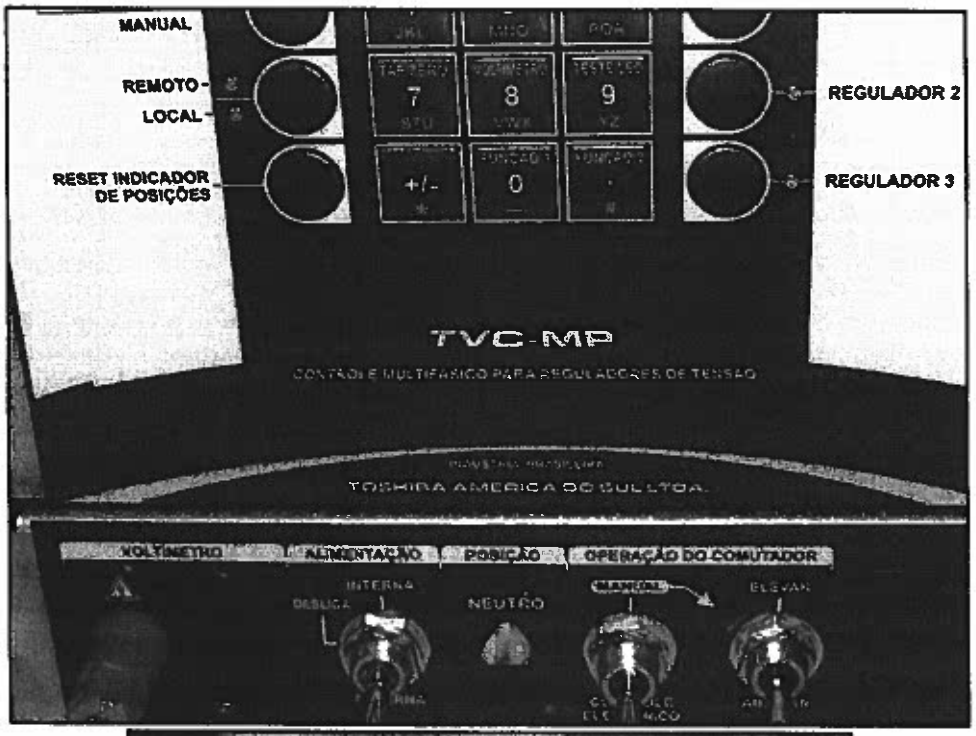

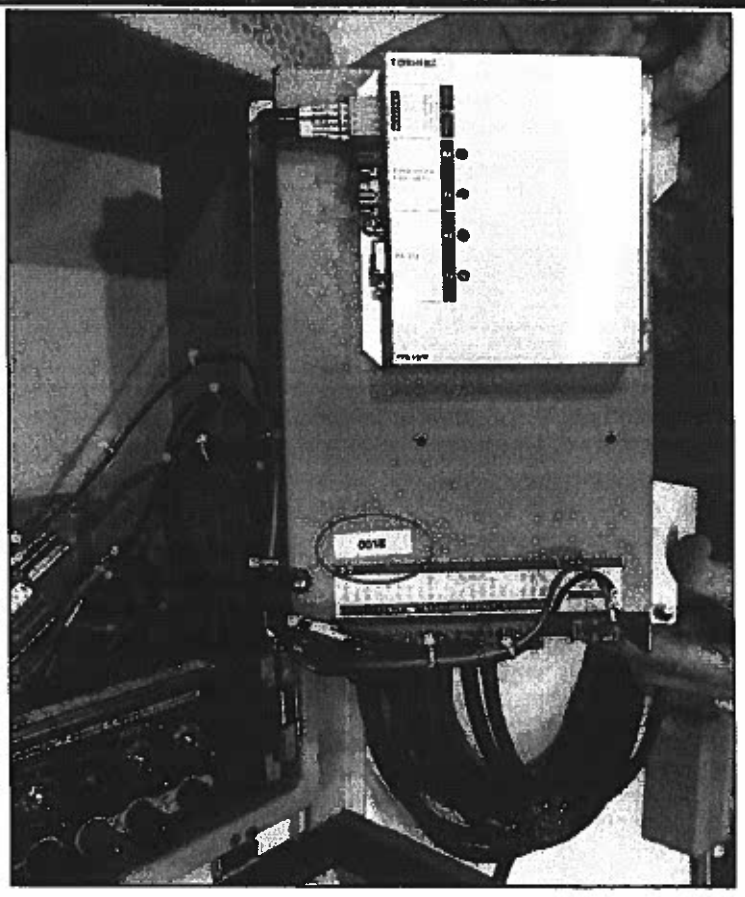

PHOTO 02 - Detail of the screen printing with the test sample identification (product name) and the label with the Serial Number: 0018.

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Assistente Legal

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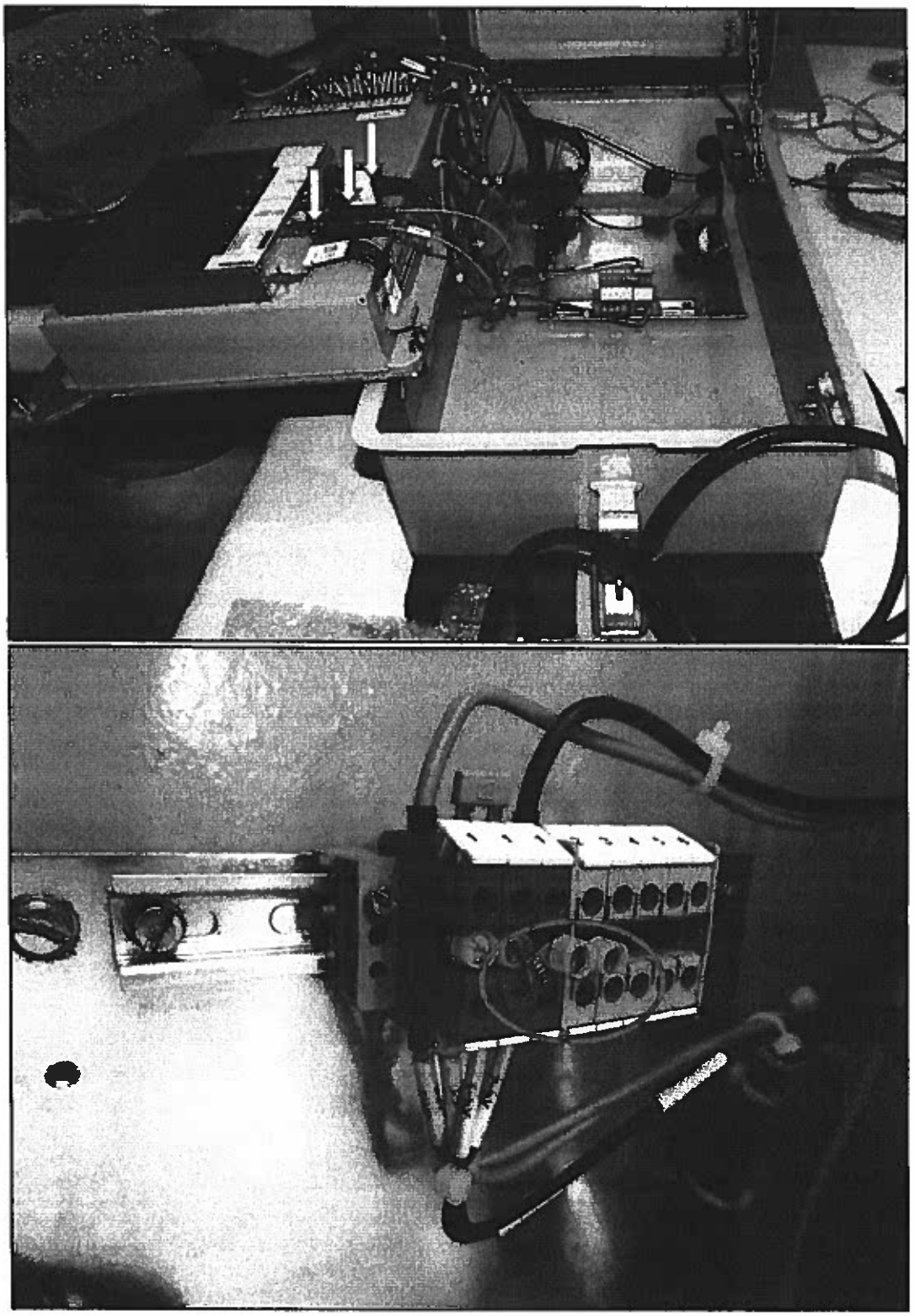

PHOTO 03 - General view of the inside of the equipment and details of wiring used for functional test and jumper position ("open") on the post installed on the DIN rail.

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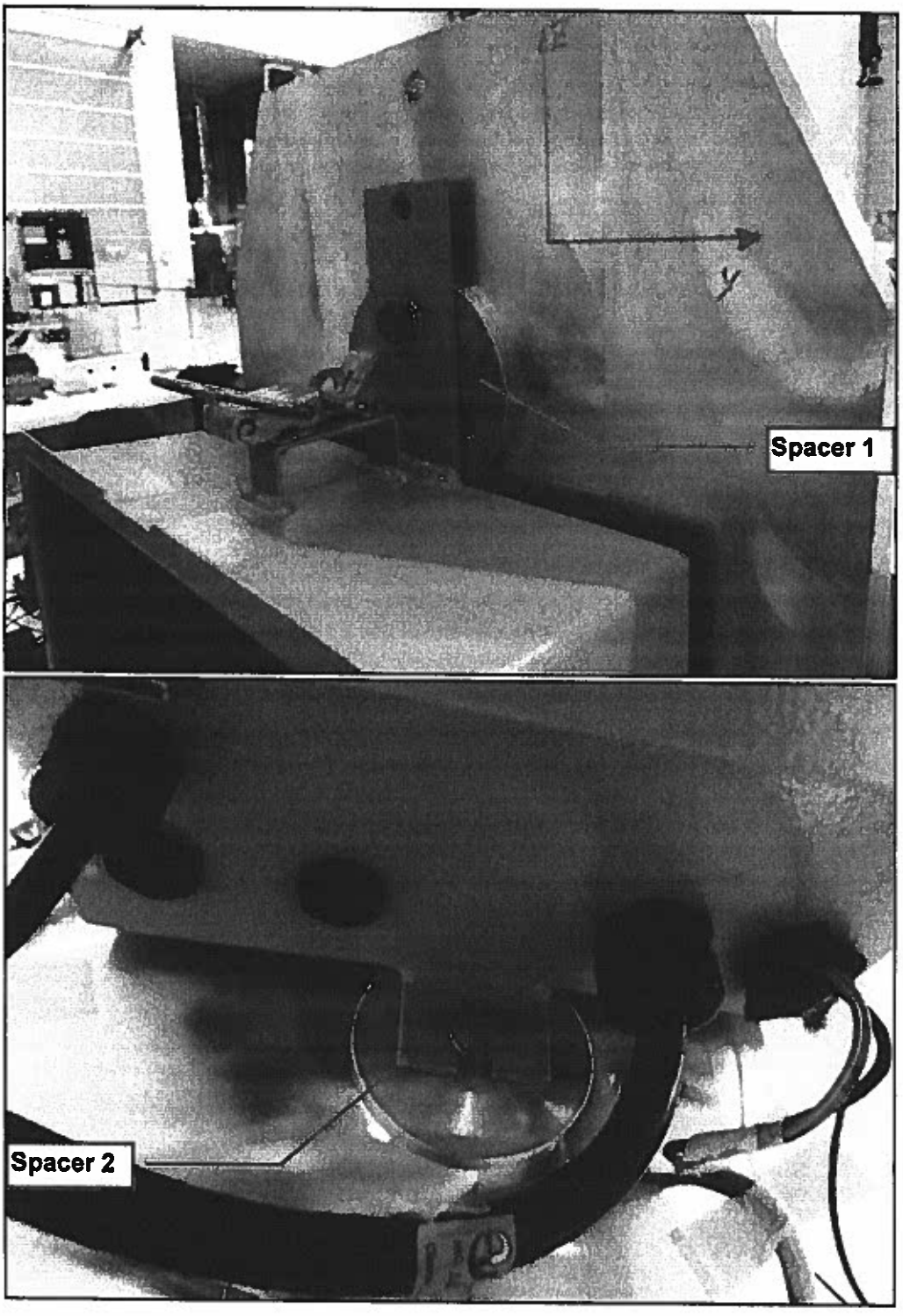

PHOTO 04 - Detail of the upper and lower fixing brackets of equipment. Note that two spacers (aluminum discs) were used under the brackets to mitigate interference between the screw head used for grounding and the surface of the vertical plate of the adapter device.

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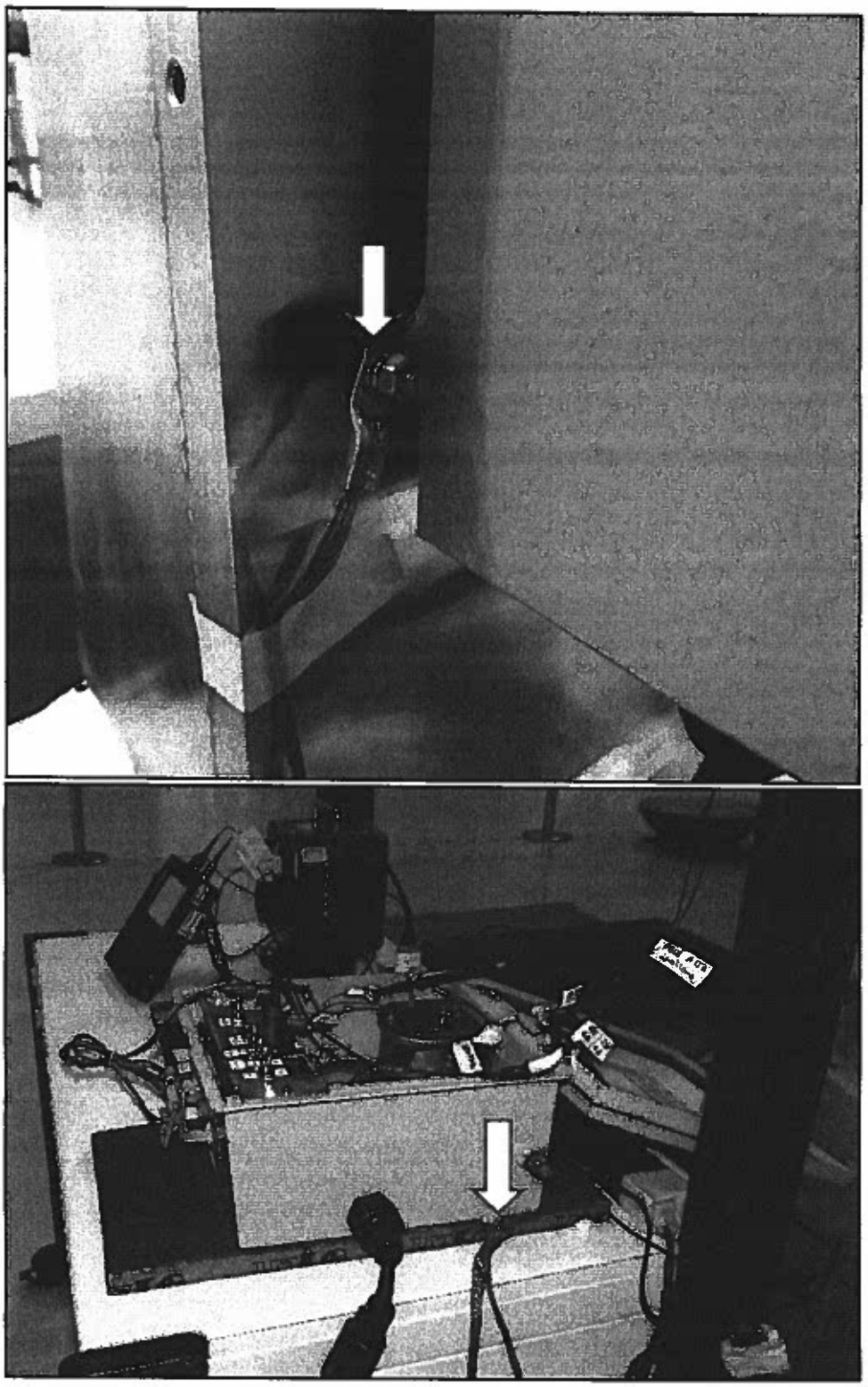

PHOTO 05 - Detail of the grounding grid connected to the test sample and to the functional test setup.

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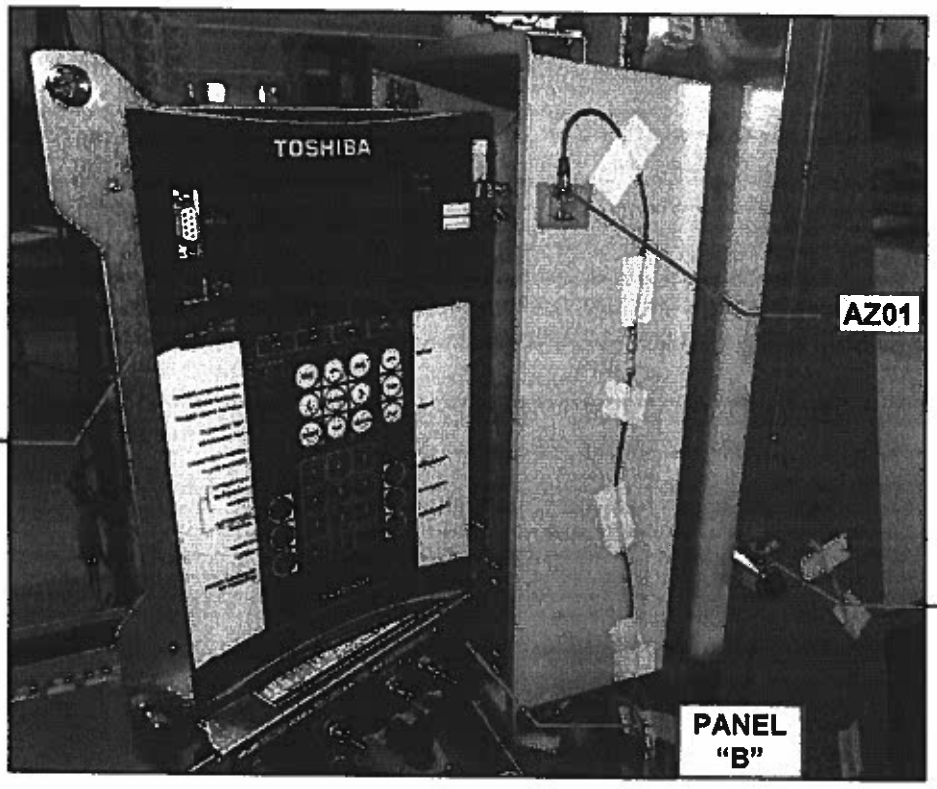

PHOTO 06 - Details of the control (ACE01) and measuring (AZ01) accelerometers location used in the vibration tests applied along the vertical axis (Z).

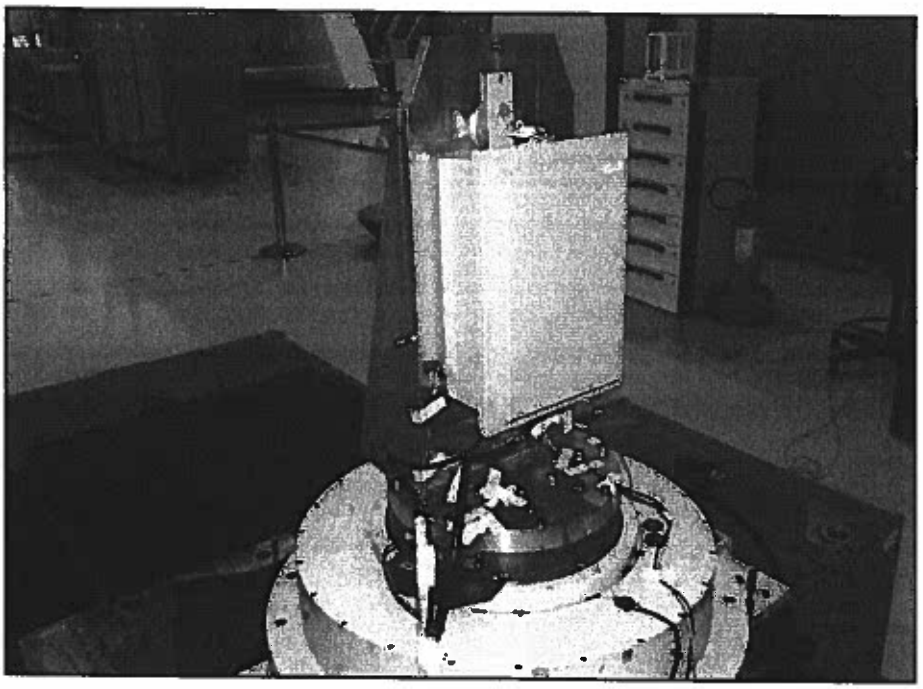

PHOTO 07 - General view of the assembly of the equipment on the adapter device for testing on the vertical axis (Z).

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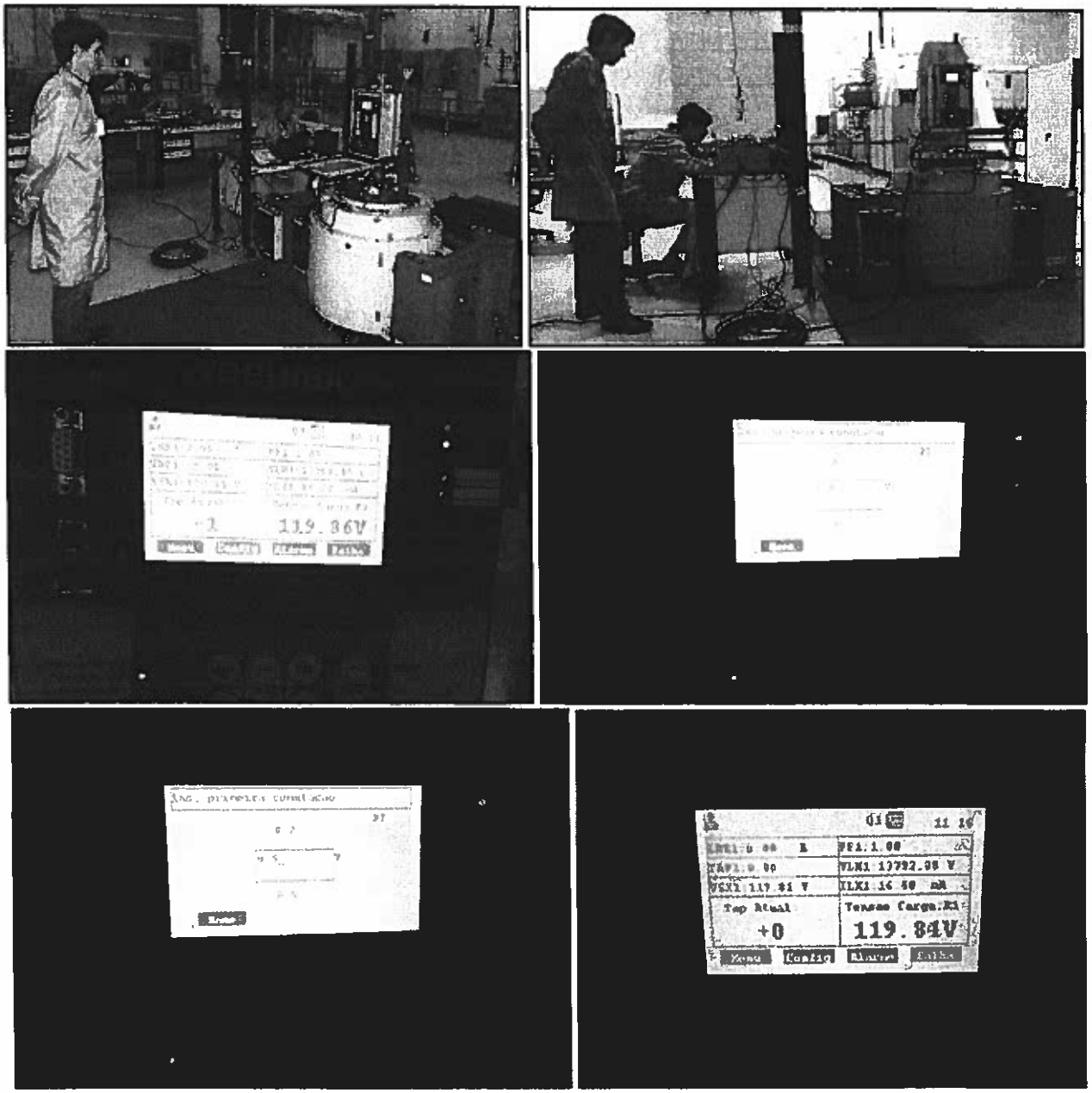

PHOTO 08 - General view of the Customer team during the setting/adjustment of the monitoring parameters for evaluating the functionality of the test sample.

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PHOTO 09 - General view of the functional test setup used for monitoring the test sample during the vibration tests.

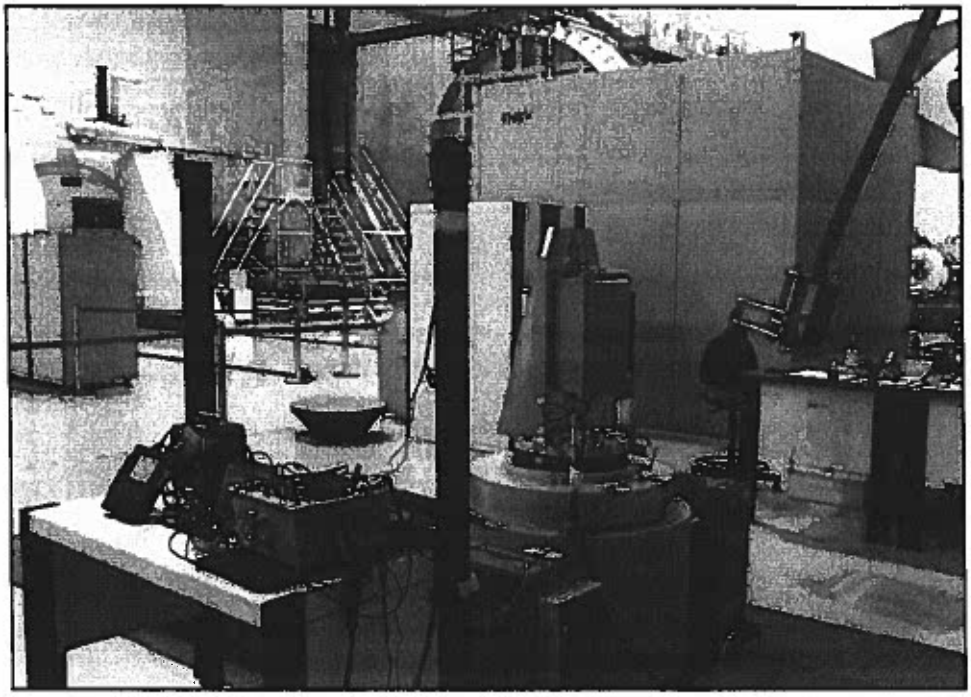

PHOTO 10 - General view of LIT's dynamics testing area during the test campaign (Ref.: Z axis).

RODOLFO PEGGE
Representante Legal
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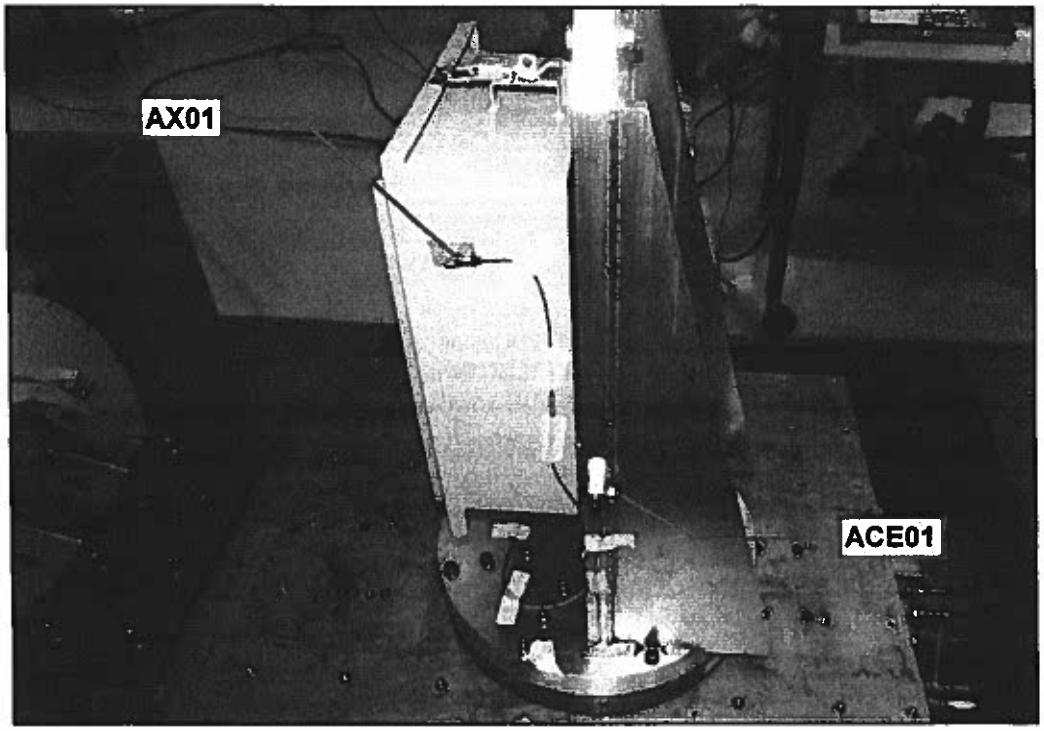

PHOTO 11 - Details of the location of control (ACE01) and measuring (AX01) accelerometers used in the vibration tests applied along X axis.

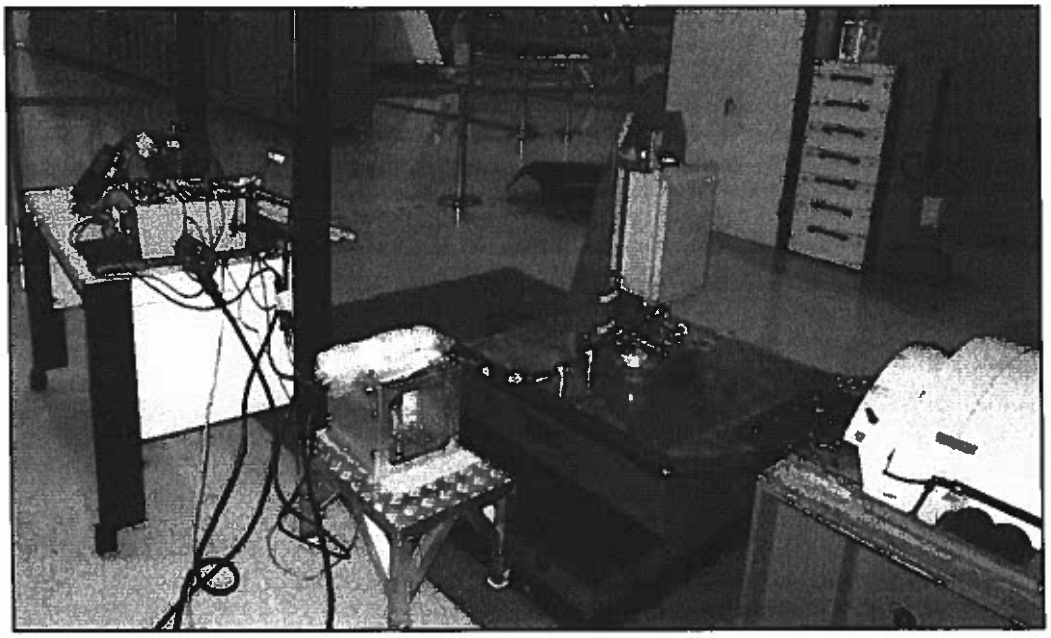

PHOTO 12 - General view of equipment mounted on the slip table for vibration tests along X axis.

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Representante Legal
ELECTROTAR S.A.

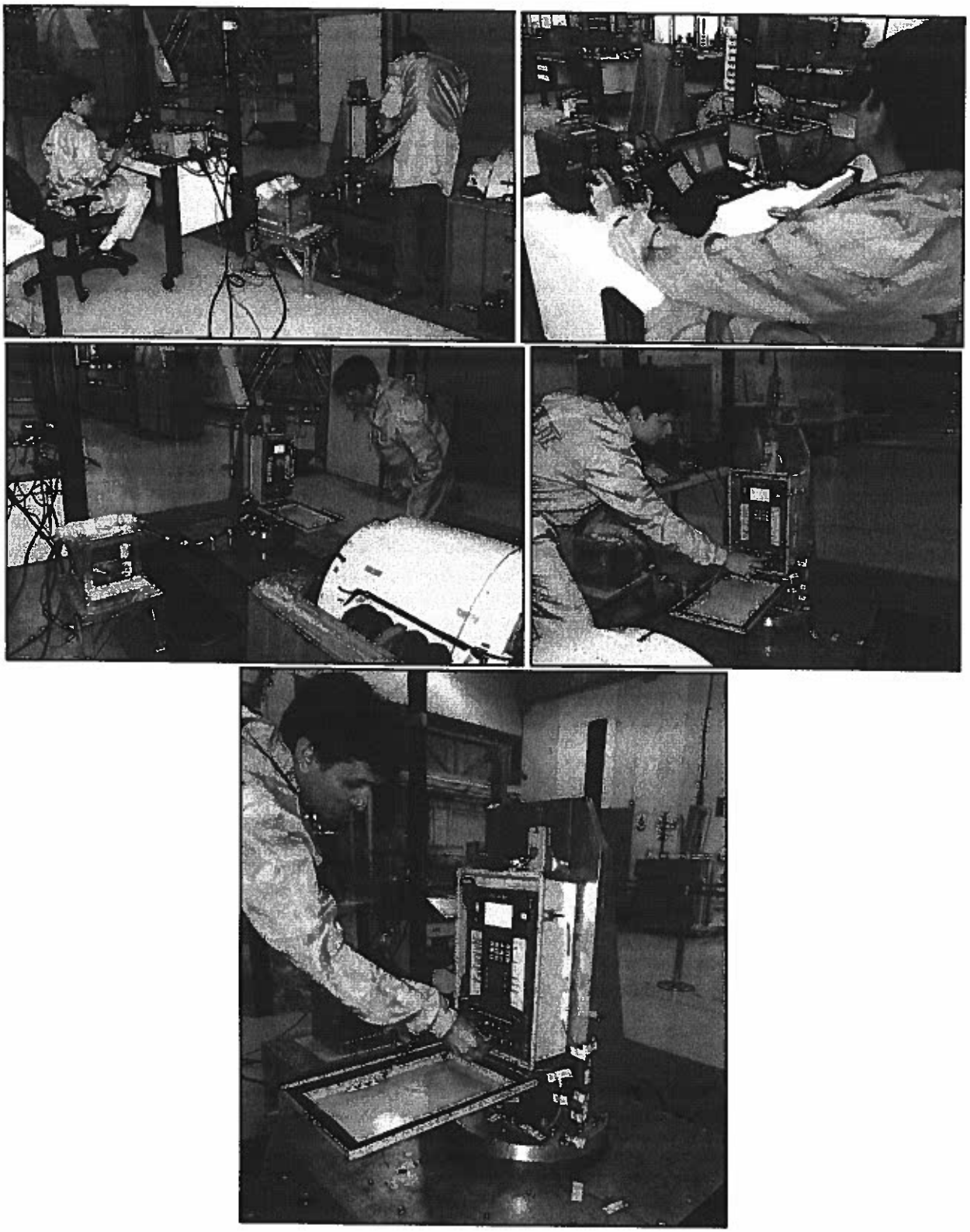

PHOTO 13 - General view of the Customer team during the functional testing of the test sample (Ref.: X axis).

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Representante Legal

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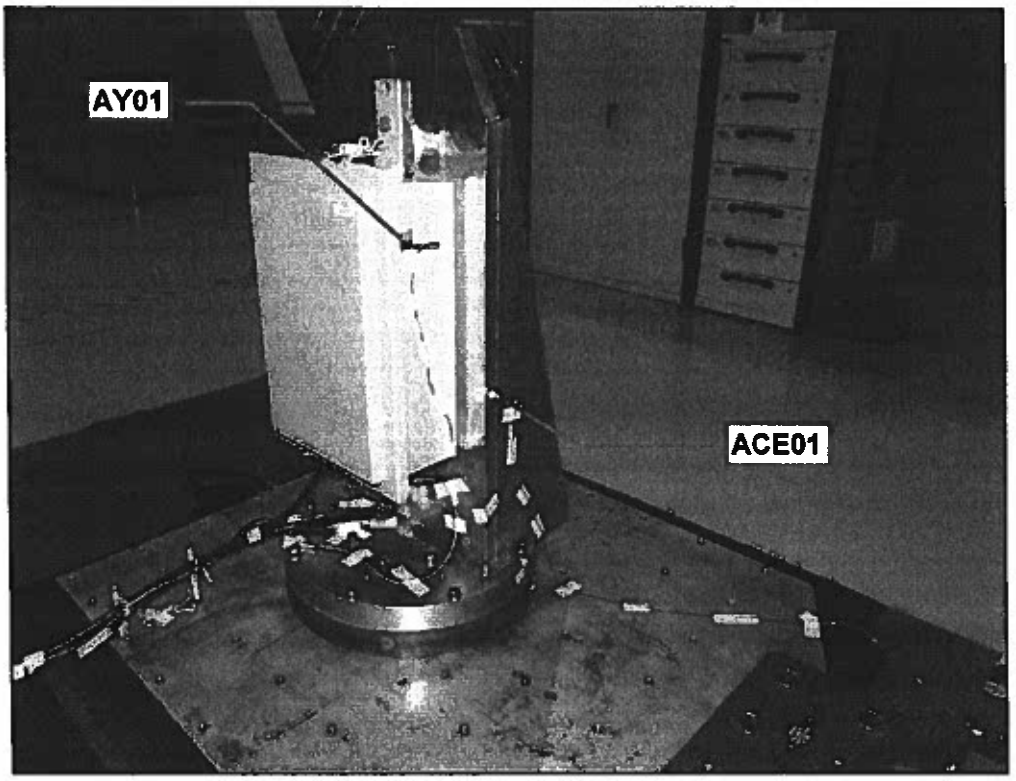

PHOTO 14 - Details of the location of control (ACE01) and measuring (AY01) accelerometers used in the vibration tests applied along Y axis.

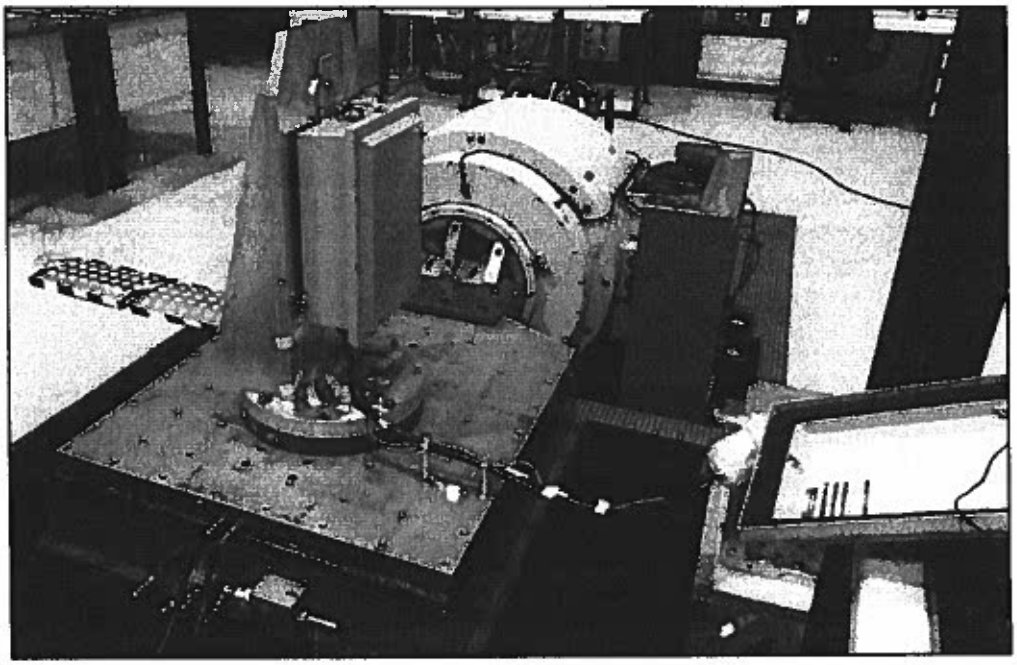

PHOTO 15 - General view of equipment mounted on the slip table for vibration tests along Y axis.

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Representante Legal
ELECTROPAR S.A.

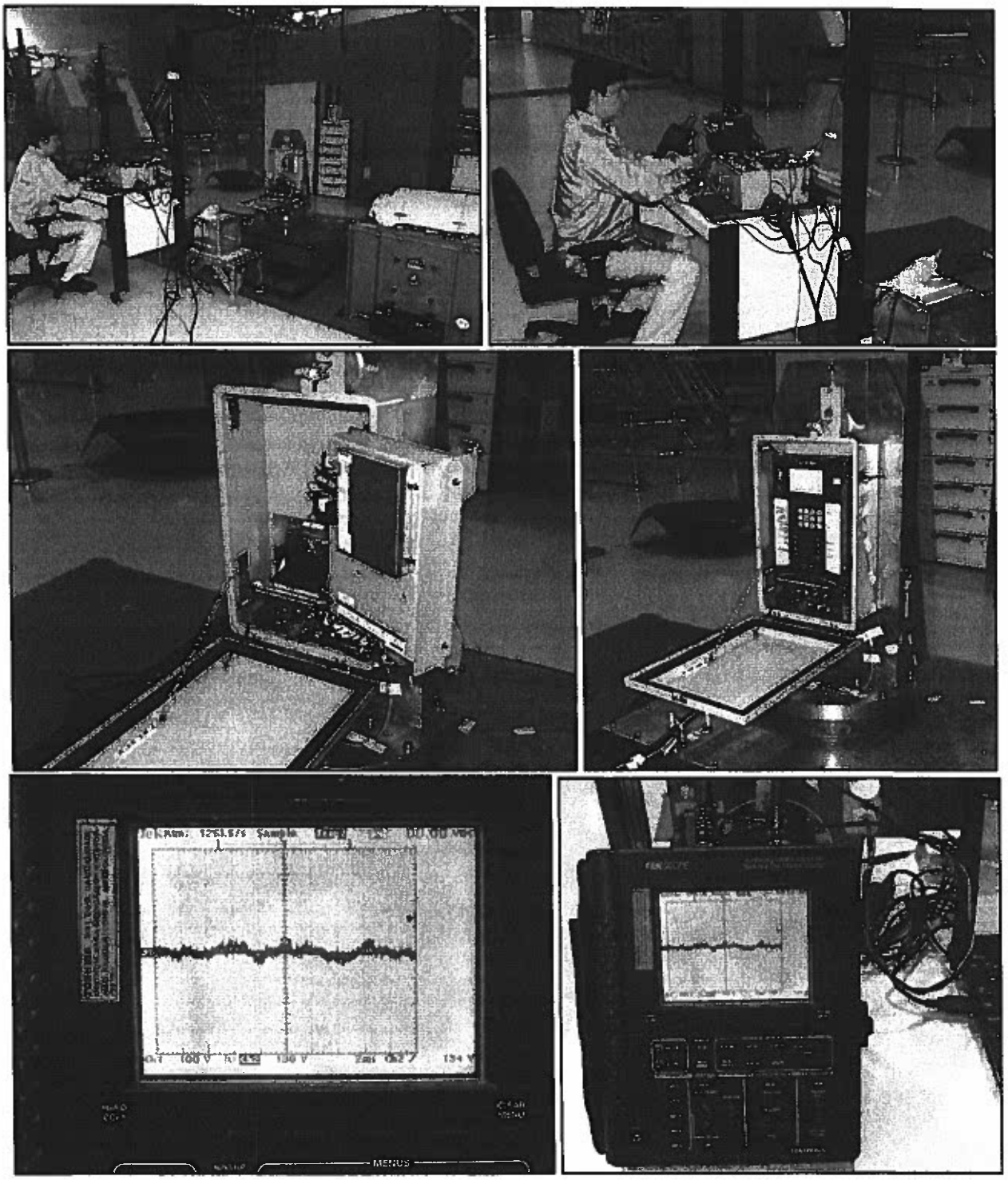

PHOTO 16 - General view of the Customer team during the functional testing of the test sample (Ref.: Y axis).

RODOLFO FEGEZ
Representante Legal
ELECTROPAR S.A.

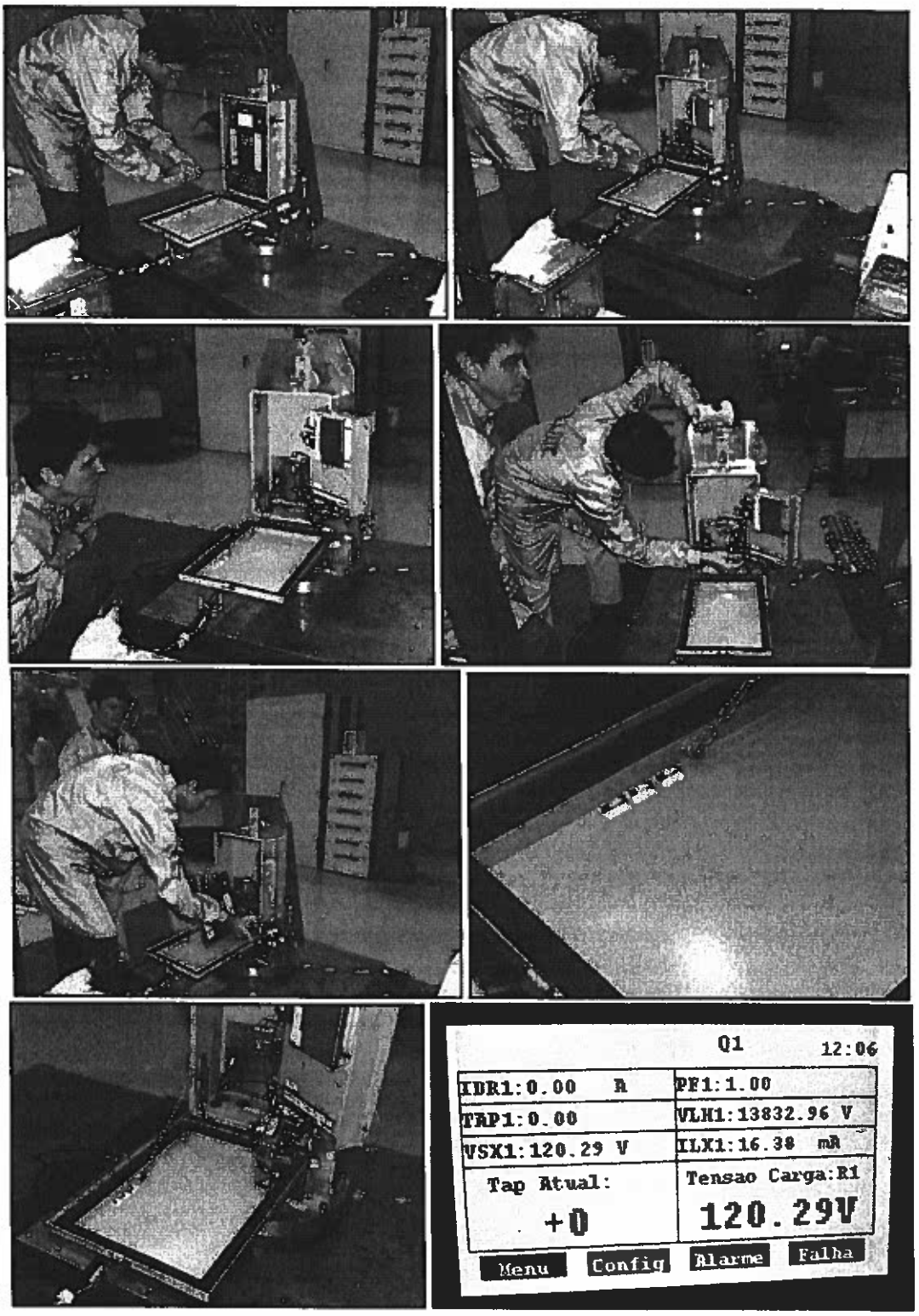

PHOTO 17 - General view of the Customer team during the visual inspection and functional testing of the test sample after completing the series of vibration tests.

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Representante Legal
ELECTROPAR S.A.

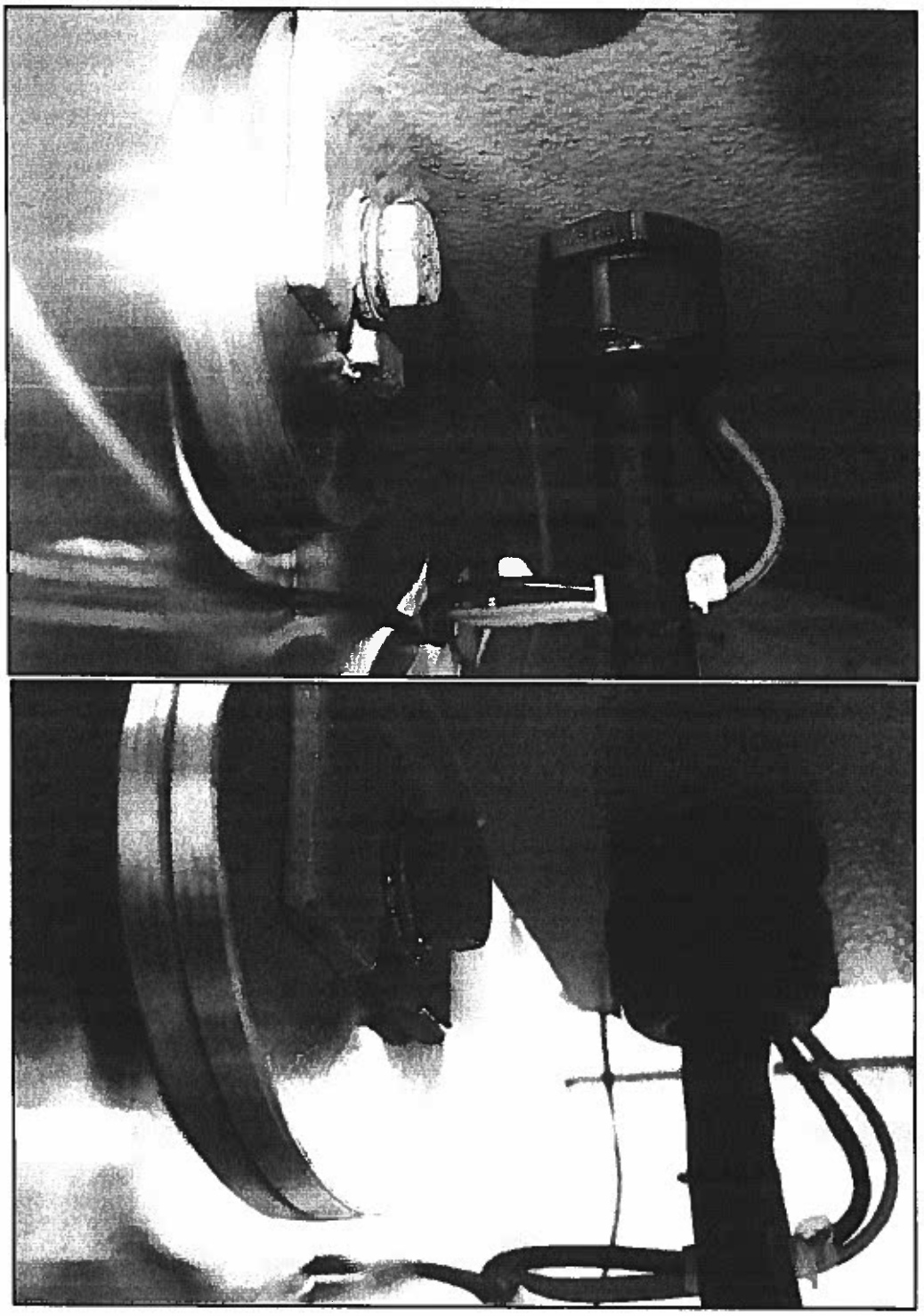

PHOTO 18 - Detail of the bottom bracket of the equipment at the end of the tests (position where it was found a detachment of the fixing screw).

RODOLFO PEREZ
Representante Legal
ELECTROPAR S.A.

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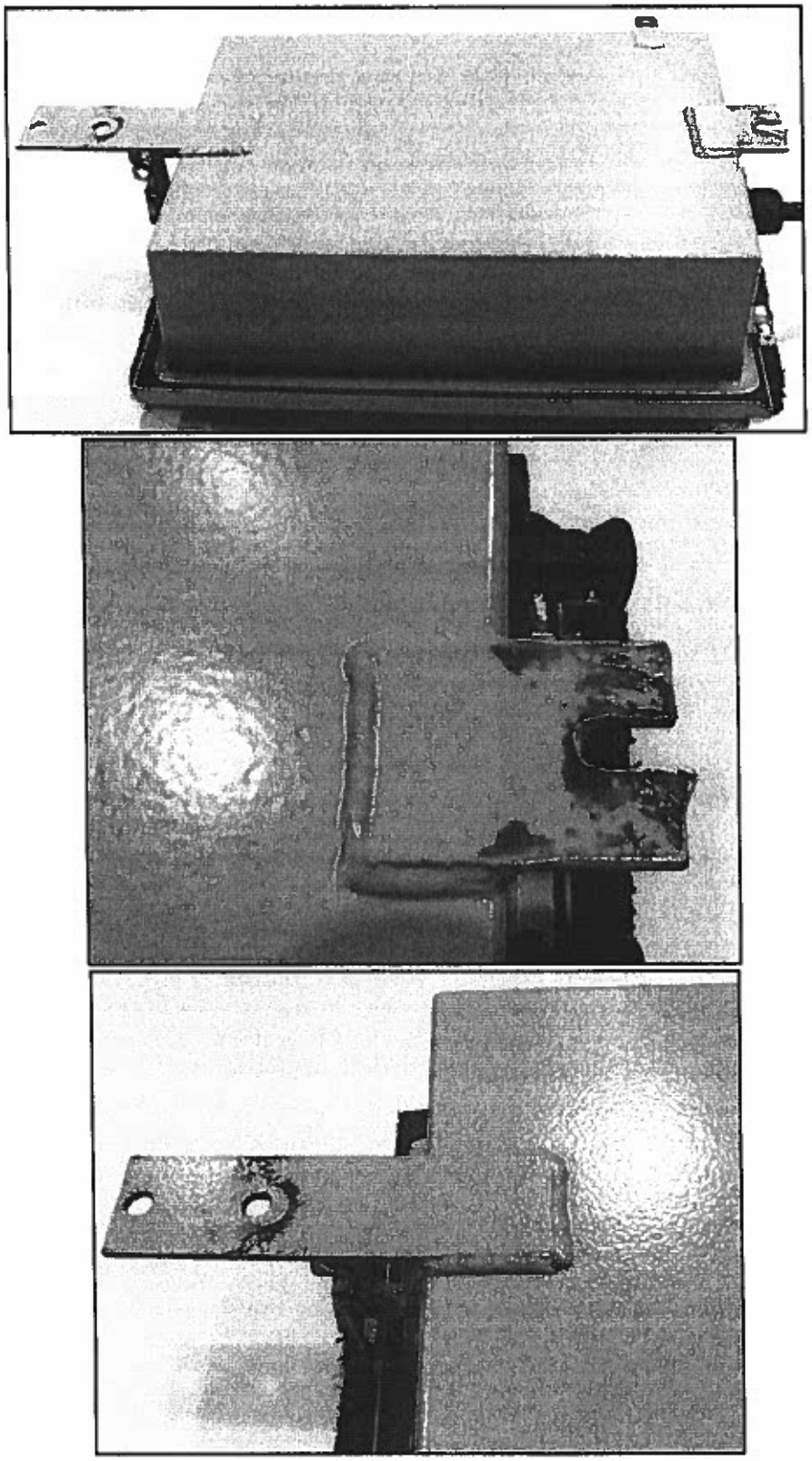

PHOTO 19 - Overview of the rear surface of the equipment and details of the mounting brackets (upper and bottom) at the end of the tests.

RODOLFO FENZL
Representante Legal
ELECTROPAR S.A.

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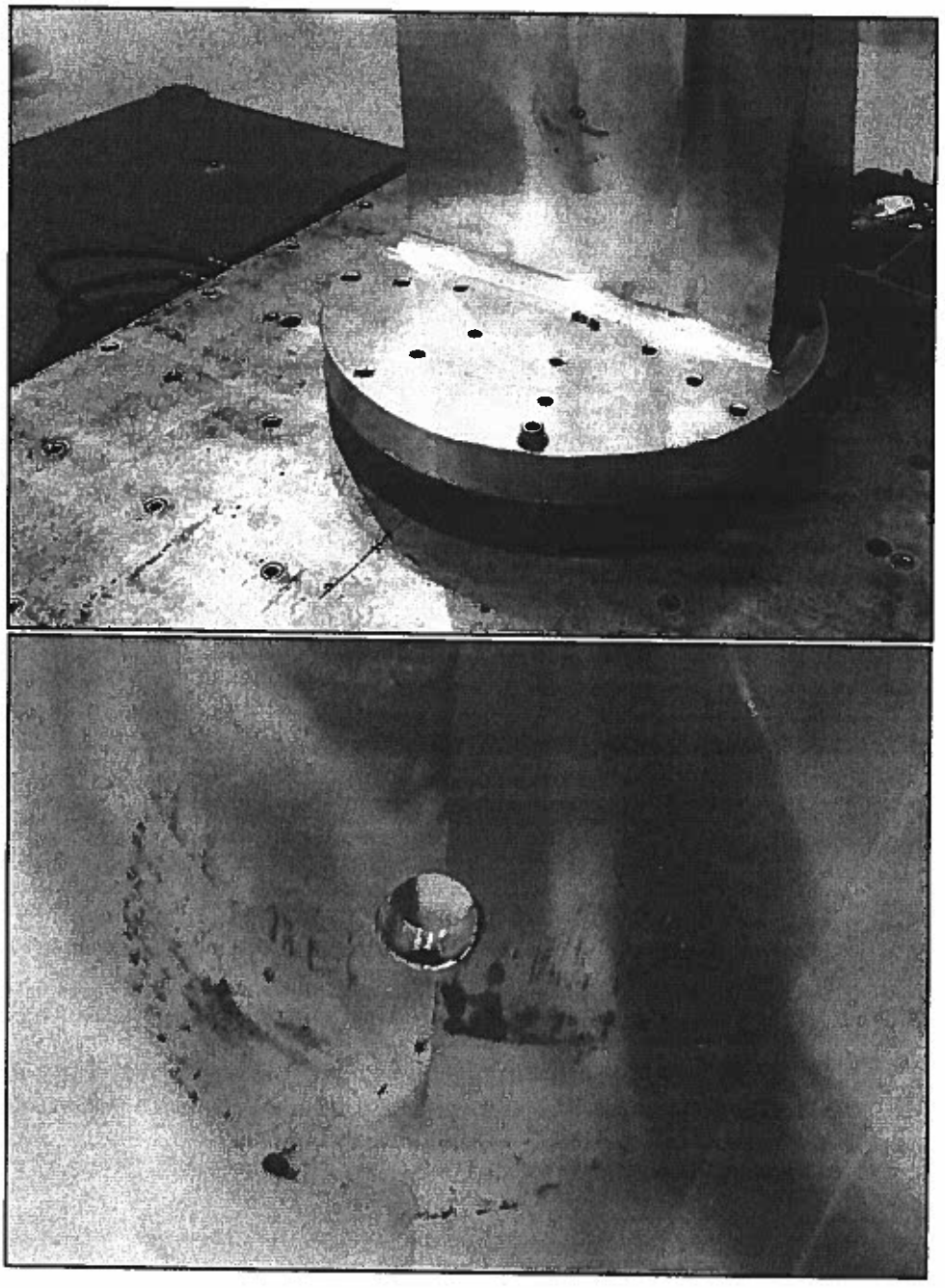

PHOTO 20 - General view and detail of the bottom fixing hole of the adapter device at the end of the vibration tests (there are signs of dark spots on the spacer seat region, indicating probably sliding of the bottom bracket on the adapter plate during the tests).

RODOLFO PEREZ
Representante Legal
ELECTRO PARANÁ S.A.