

Test report

Accredited
laboratory (DATech)
Reg.Nr.TTI-G054/02-01

The test results relate only to the items tested as mentioned below.
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report

No
MHM-EST-7.970170053/C
Jakobi

number of

copies pages
1 5

issued

date
12.11.97

test

vibration and shock test

test basis / -specification

E DIN IEC 48D/89/CD: 1995-11
demand 1

object under test

Rack

type designation

europac PRO 3 HE

identification no.

client

Schroff GmbH

manufacturer

Schroff GmbH

Langenalberstraße 96 - 100

75334 Straubenhardt

tester

Jakobi

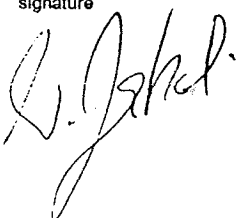
receipt of object under test
date

28.01.1997

test date / period of time

29. and 30. 01.1997

drown up
signature



verified
signature

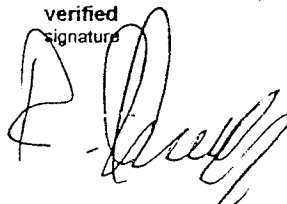




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1 *Used documents*

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All these documents are filed in the test report GEL3-UM-7.9701170053/A

2 *Test equipment*

	Type	manufacturer
shaker :	1000 IAR	Unholtz-Dickie
vibration control system:	400 AT	Unholtz-Dickie
signal conditioner:	104/109	Endevco
accelerometers:	4500	Brüel & Kjaer
	10B10T	Unholtz-Dickie
	226C	Endevco

The measuring equipments are calibrated regularly according to the calibration instructions of the TÜV PRODUCT SERVICE GmbH. All calibrations are traced back to national standards.

3 *Test procedure*

3.1 *Object under test*

The tested object was a subrack. It was tested in a mounting frame built by the client. The subrack was fitted with 14 dummies (each one 250 g).

3.2 *Test specification*

3.2.1 *Resonance search*

motion:	sinusoidal
frequency range:	5 - 150 Hz
amplitude:	5 - 150 Hz, 0.2 g
sweep rate:	1 oct / min.
test duration:	1 sweep



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3.2.2 Resonant dwell

motion: sinusoidal
frequency range: resonance determined like 3.2.1
amplitude: 1 g
test duration: 10 min

3.2.3 Vibration test

motion: sinusoidal
frequency range: 10 – 150 Hz
amplitude: 10 - 60 Hz 0,075 mm pk
60 - 150 Hz 1 g
sweep rate: 1 oct / min
test duration: 1 sweep

3.2.4 Shock tests

Type of shock: half sine
amplitude: 15 g
shock duration: 11 ms
application: 3 shocks per axis, on three mutually perpendicular axes

3.3 Test sequence

no.	test	run	axis	page	Measuring points and comments
1	Resonance search	3	X	/U- 1/1	Subrack middle, top and back
2	Resonant dwell	3	X	/U- 2/1	
3	Vibration test	3	X	/U- 3/1	
4	Shock test	5 6	+X -X	/U- 4/1	
5	Resonance search	4	Y	/U- 1/2	Subrack middle, top and back
6	Resonant dwell	4 5	Y	/U -2/2	
7	Vibration test	4	Y	/U -3/2	
8	Shock test	7 8	-Y +Y	/U- 4/2	
9	Resonance search	6	Z	/U- 1/3	Subrack middle, top and back
10	Resonant dwell	7	Z	/U- 2/3	
11	Vibration test	5	Z	/U- 3/3	
12	Shock test	9 10	+Z -Z	/U- 4/3	



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4 Test result

The visual inspection showed no damage. A detailed inspection will be done by the customer.

5 Explanation of the measuring diagrams

5.1 Vibration test (see /U-1/ page 1)

- 1 Frequency range in Hz
 - 2 Acceleration level in g
 - 3 Control channel
 - 4 Reference level
 - 5 Constant acceleration
 - 6 Test duration
 - 7 Measuring level
 - 8 cursor
 - 9 measuring channel
- frequency: FREQ in Hz
 - acceleration: A in g
 - velocity: V in m/s
 - displacement: D in mm

5.2 resonance list (see /U-1 / page 1)

- 1 ratio limit
- 2 measuring channel
- 3 frequency in Hz
- 4 test level in g
- 5 measuring level in g
- 6 ratio

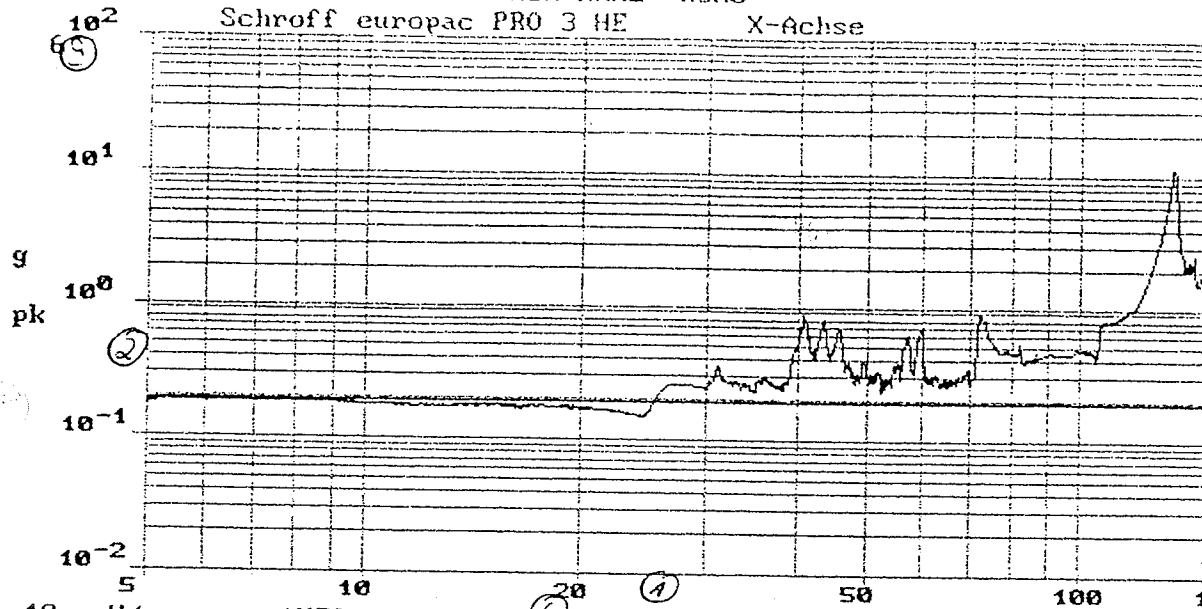
5.3 shock test (see /U-4 / page 1)

- 1 reference level in g
- 2 measuring level in g
- 3 number of shocks
- 4 duration

GEL3-UM-7.970170053/B / WJ

SETUP-ID: RESONANZ TEST RUN NAME: RUN3

Schroff europac PRO 3 HE X-Achse



29/01/97
12:03:37

DISPLAY
C-CTRL

A-ALL
D-DRIVE
^A-A/CT

FREQ=
149.6 (7)

CHG LEV=
1.58 A (8)

0.0157 U (9)
0.033 D

REF LEV=
.2000 g (4)

CONSTANT
ACC (5)

LOG SWPH
1 up
of 1

10 mU/g AUTO : 00:04:00 (6) STATUS: Finished
MAX SERV SPD 1k TOTAL: 00:04:17 SWEEP TIME: 4.9 Min

CHAN 7 (3)

SETUP ID: RESONANZ

RUN NAME: RUN3

MINIMUM RATIO 5.00 (1)

CHANNEL (2) FREQUENCY (Hz) (3)

LIST OF RESONANCES

LOG SWEEP # 1 UP

29/01/97

12:05:04

CONTROL CHAN (4) ANALYSIS CHAN (5)
LEVEL(g pk) LEVEL(g pk) RATIO (6)

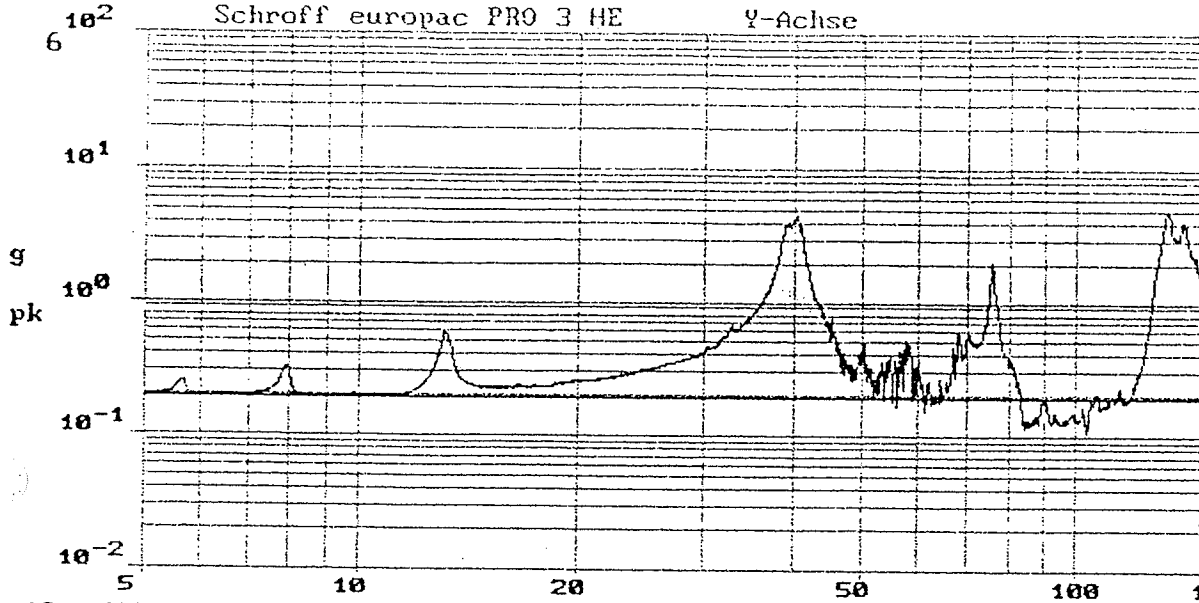
CHANNEL	FREQUENCY (Hz)	CONTROL CHAN LEVEL(g pk)	ANALYSIS CHAN LEVEL(g pk)	RATIO	Q
6	133.39	0.1883	11.7244	62.275	54.10

SETUP-ID: RESONANZ TEST RUN NAME: RUN4

29/01/97

Schroff europac PRO 3 HE γ -Achse

14:01:08



DISPLAY
C-CTRL

A-ALL

D-DRIVE

^A-A/CT

FREQ=

149.6

CH6 LEV=

1.28 A

0.0133 U

0.028 D

REF LEV=

.2000 g

CONSTANT

ACC

LOG SWP#

1 up

of 1

Hz

10 mV/g AUTO : 00:05:27 STATUS: Finished
MAX SERV SPD 1k TOTAL: 00:05:44 SWEEP TIME: 4.9 Min CHAN 7

SETUP ID: RESONANZ
RUN NAME: RUN4
MINIMUM RATIO 5.00

LIST OF RESONANCES
LOG SWEEP # 1 UP

29/01/97
14:02:40

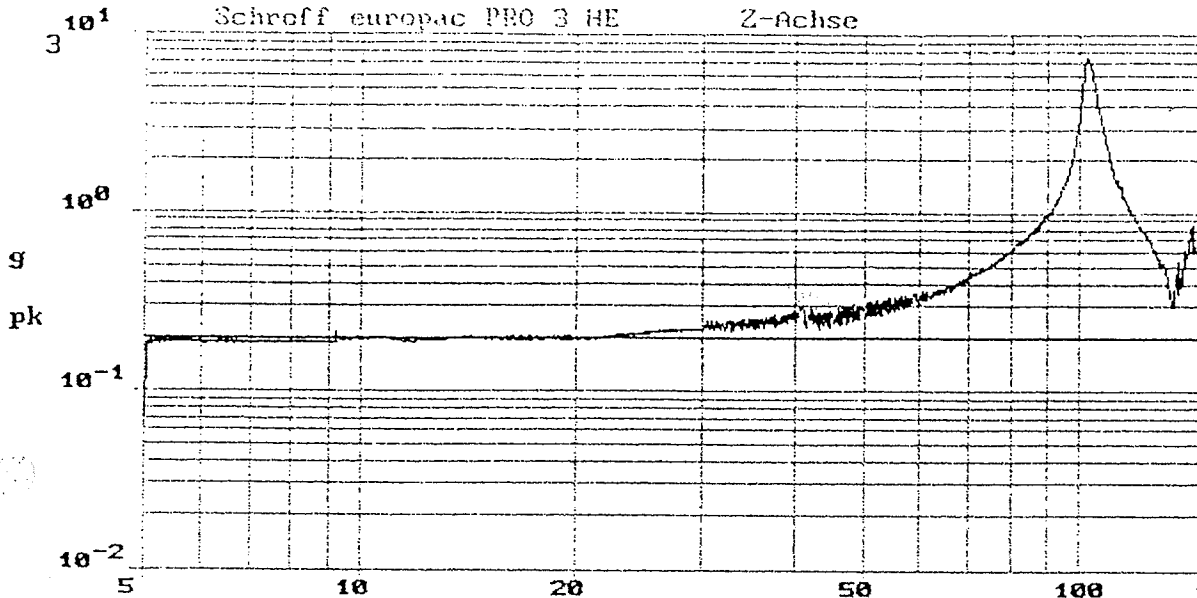
CHANNEL	FREQUENCY (Hz)	CONTROL CHAN LEVEL(g pk)	ANALYSIS CHAN LEVEL(g pk)	RATIO	Q
6	35.96	0.2063	1.0501	5.091	3.73
6	40.25	0.2103	4.6621	22.173	16.14
6	43.21	0.2070	1.0451	5.049	4.47
6	75.62	0.2073	2.0152	9.723	67.66
6	133.61	0.2178	4.9344	22.658	25.44

SETUP-ID: RESONANZ TEST RUN NAME: RUN6

30/01/97

Schroff europac PRO 3 HE Z-Achse

07:10:25



DISPLAY C-CTRL

A-ALL

D-DRIVE

A-A/CT

FREQ=

149.7

CH3 LEV=

0.57 A

0.0060 U

0.013 D

REF LEV=

.2000 g

CONSTANT

ACC

LOG SWP#

1 up

of 1

18 mU/g AUTO : 00:05:03 STATUS: Finished
MAX SERU SPD 1k TOTAL: 00:05:45 SWEEP TIME: 4.9 Min CHAN 2

SETUP ID: RESONANZ
RUN NAME: RUN6
MINIMUM RATIO 5.00

LIST OF RESONANCES
LOG SWEEP # 1 UP

30/01/97
07:11:46

CHANNEL	FREQUENCY (Hz)	CONTROL CHAN LEVEL(g pk)	ANALYSIS CHAN LEVEL(g pk)	RATIO	Q
3	101.89	0.2063	7.6954	37.306	28.75

Technischer Überwachungs-Verein
Südwestdeutschland e. V.
Fachbereich Gerätetechnik und Elektronik
Prüfzentrum Elektronik Sensorik Umweltsimulation
Unterlage / U- 1 /, Blatt 3 bis 3
Gehört zu Schreiben, Prüfbericht, Gutachten
Az.: GEL3- UM-7.9.10.17005.3 A
05.01.97 12.16

BASE SETUP-ID: RESUERW TEST RUN NAME: RUN3

29/01/97
12:17:17

10³ Schroff europac PRO 3 HE, X-Achse

			AUTO TIME	FREQ (Hz)	LEVEL CHN 7	LEVEL CHN 6	DISPLAY C-CTRL
			00:01:00	133.3	1.03	42.85	6-CH6
			00:02:00	133.3	1.03	43.28	D-DRIVE
			00:03:00	133.3	1.03	42.92	^6-6/CT
			00:04:00	133.4	1.03	42.88	FREQ=
			00:05:00	133.4	1.03	43.03	133.4
			00:06:00	133.4	1.03	43.25	CH6 LEV=
			00:07:00	133.4	1.03	43.05	43.43 A
			00:08:00	133.4	1.03	43.45	0.5078 U
			00:09:00	133.4	1.03	43.58	1.212 D
			00:10:00	133.4	1.03	43.47	REF LEV=
			00:10:00	133.4	1.03	43.47	1.000 g
							CONSTANT
							ACC
							STEP NO.
							1
							PH. REF.
							8

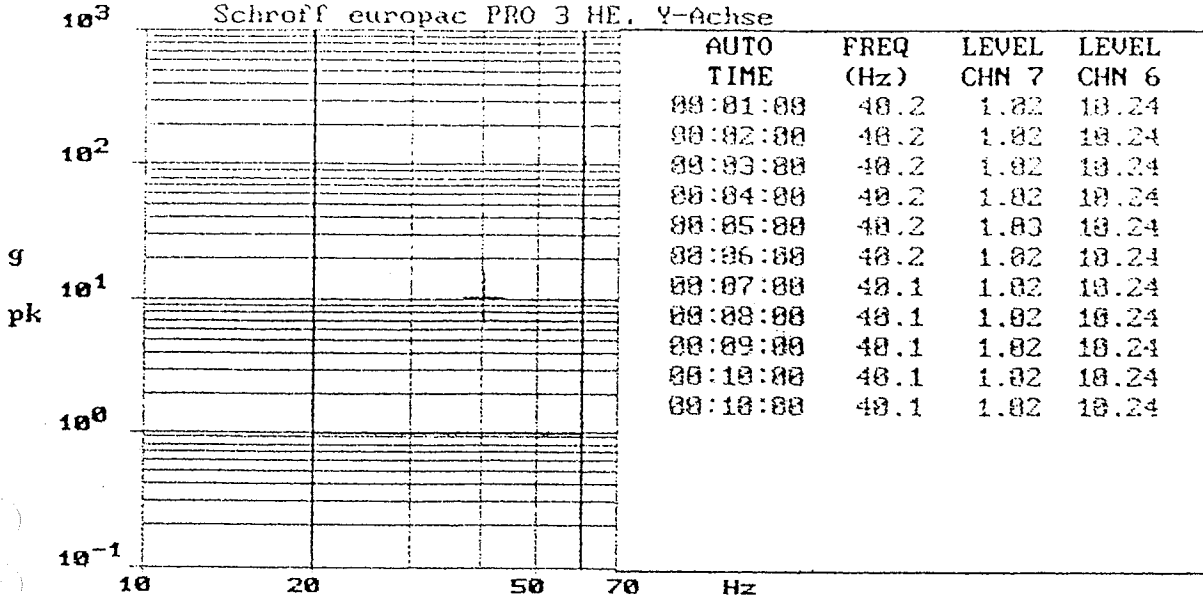
10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵ 10⁻⁶ 10⁻⁷ 10⁻⁸ 10⁻⁹ 10⁻¹⁰ 10⁻¹¹ 10⁻¹² 10⁻¹³ 10⁻¹⁴ 10⁻¹⁵ 10⁻¹⁶ 10⁻¹⁷ 10⁻¹⁸ 10⁻¹⁹ 10⁻²⁰ 10⁻²¹ 10⁻²² 10⁻²³ 10⁻²⁴ 10⁻²⁵ 10⁻²⁶ 10⁻²⁷ 10⁻²⁸ 10⁻²⁹ 10⁻³⁰ 10⁻³¹ 10⁻³² 10⁻³³ 10⁻³⁴ 10⁻³⁵ 10⁻³⁶ 10⁻³⁷ 10⁻³⁸ 10⁻³⁹ 10⁻⁴⁰ 10⁻⁴¹ 10⁻⁴² 10⁻⁴³ 10⁻⁴⁴ 10⁻⁴⁵ 10⁻⁴⁶ 10⁻⁴⁷ 10⁻⁴⁸ 10⁻⁴⁹ 10⁻⁵⁰ 10⁻⁵¹ 10⁻⁵² 10⁻⁵³ 10⁻⁵⁴ 10⁻⁵⁵ 10⁻⁵⁶ 10⁻⁵⁷ 10⁻⁵⁸ 10⁻⁵⁹ 10⁻⁶⁰ 10⁻⁶¹ 10⁻⁶² 10⁻⁶³ 10⁻⁶⁴ 10⁻⁶⁵ 10⁻⁶⁶ 10⁻⁶⁷ 10⁻⁶⁸ 10⁻⁶⁹ 10⁻⁷⁰ 10⁻⁷¹ 10⁻⁷² 10⁻⁷³ 10⁻⁷⁴ 10⁻⁷⁵ 10⁻⁷⁶ 10⁻⁷⁷ 10⁻⁷⁸ 10⁻⁷⁹ 10⁻⁸⁰ 10⁻⁸¹ 10⁻⁸² 10⁻⁸³ 10⁻⁸⁴ 10⁻⁸⁵ 10⁻⁸⁶ 10⁻⁸⁷ 10⁻⁸⁸ 10⁻⁸⁹ 10⁻⁹⁰ 10⁻⁹¹ 10⁻⁹² 10⁻⁹³ 10⁻⁹⁴ 10⁻⁹⁵ 10⁻⁹⁶ 10⁻⁹⁷ 10⁻⁹⁸ 10⁻⁹⁹ 10⁻¹⁰⁰ 10⁻¹⁰¹ 10⁻¹⁰² 10⁻¹⁰³ 10⁻¹⁰⁴ 10⁻¹⁰⁵ 10⁻¹⁰⁶ 10⁻¹⁰⁷ 10⁻¹⁰⁸ 10⁻¹⁰⁹ 10⁻¹¹⁰ 10⁻¹¹¹ 10⁻¹¹² 10⁻¹¹³ 10⁻¹¹⁴ 10⁻¹¹⁵ 10⁻¹¹⁶ 10⁻¹¹⁷ 10⁻¹¹⁸ 10⁻¹¹⁹ 10⁻¹²⁰ 10⁻¹²¹ 10⁻¹²² 10⁻¹²³ 10⁻¹²⁴ 10⁻¹²⁵ 10⁻¹²⁶ 10⁻¹²⁷ 10⁻¹²⁸ 10⁻¹²⁹ 10⁻¹³⁰ 10⁻¹³¹ 10⁻¹³² 10⁻¹³³ 10⁻¹³⁴ 10⁻¹³⁵ 10⁻¹³⁶ 10⁻¹³⁷ 10⁻¹³⁸ 10⁻¹³⁹ 10⁻¹⁴⁰ 10⁻¹⁴¹ 10⁻¹⁴² 10⁻¹⁴³ 10⁻¹⁴⁴ 10⁻¹⁴⁵ 10⁻¹⁴⁶ 10⁻¹⁴⁷ 10⁻¹⁴⁸ 10⁻¹⁴⁹ 10⁻¹⁵⁰ 10⁻¹⁵¹ 10⁻¹⁵² 10⁻¹⁵³ 10⁻¹⁵⁴ 10⁻¹⁵⁵ 10⁻¹⁵⁶ 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10⁻⁵⁸⁶ 10⁻⁵⁸⁷ 10⁻⁵⁸⁸ 10⁻⁵⁸⁹ 10⁻⁵⁹⁰ 10⁻⁵⁹¹ 10⁻⁵⁹² 10⁻⁵⁹³ 10⁻⁵⁹⁴ 10⁻⁵⁹⁵ 10⁻⁵⁹⁶ 10⁻⁵⁹⁷ 10⁻⁵⁹⁸ 10⁻⁵⁹⁹ 10⁻⁶⁰⁰ 10⁻⁶⁰¹ 10⁻⁶⁰² 10⁻⁶⁰³ 10⁻⁶⁰⁴ 10⁻⁶⁰⁵ 10⁻⁶⁰⁶ 10⁻⁶⁰⁷ 10⁻⁶⁰⁸ 10⁻⁶⁰⁹ 10⁻⁶¹⁰ 10⁻⁶¹¹ 10⁻⁶¹² 10⁻⁶¹³ 10⁻⁶¹⁴ 10⁻⁶¹⁵ 10⁻⁶¹⁶ 10⁻⁶¹⁷ 10⁻⁶¹⁸ 10⁻⁶¹⁹ 10⁻⁶²⁰ 10⁻⁶²¹ 10⁻⁶²² 10⁻⁶²³ 10⁻⁶²⁴ 10⁻⁶²⁵ 10⁻⁶²⁶ 10⁻⁶²⁷ 10⁻⁶²⁸ 10⁻⁶²⁹ 10⁻⁶³⁰ 10⁻⁶³¹ 10⁻⁶³² 10⁻⁶³³ 10⁻⁶³⁴ 10⁻⁶³⁵ 10⁻⁶³⁶ 10⁻⁶³⁷ 10⁻⁶³⁸ 10⁻⁶³⁹ 10⁻⁶⁴⁰ 10⁻⁶⁴¹ 10⁻⁶⁴² 10⁻⁶⁴³ 10⁻⁶⁴⁴ 10⁻⁶⁴⁵ 10⁻⁶⁴⁶ 10⁻⁶⁴⁷ 10⁻⁶⁴⁸ 10⁻⁶⁴⁹ 10⁻⁶⁵⁰ 10⁻⁶⁵¹ 10⁻⁶⁵² 10⁻⁶⁵³ 10⁻⁶⁵⁴ 10⁻⁶⁵⁵ 10⁻⁶⁵⁶ 10⁻⁶⁵⁷ 10⁻⁶⁵⁸ 10⁻⁶⁵⁹ 10⁻⁶⁶⁰ 10⁻⁶⁶¹ 10⁻⁶⁶² 10⁻⁶⁶³ 10⁻⁶⁶⁴ 10⁻⁶⁶⁵ 10⁻⁶⁶⁶ 10⁻⁶⁶⁷ 10⁻⁶⁶⁸ 10⁻⁶⁶⁹ 10⁻⁶⁷⁰ 10⁻⁶⁷¹ 10⁻⁶⁷² 10⁻⁶⁷³ 10⁻⁶⁷⁴ 10⁻⁶⁷⁵ 10⁻⁶⁷⁶ 10⁻⁶⁷⁷ 10⁻⁶⁷⁸ 10⁻⁶⁷⁹ 10⁻⁶⁸⁰ 10⁻⁶⁸¹ 10⁻⁶⁸² 10⁻⁶⁸³ 10⁻⁶⁸⁴ 10⁻⁶⁸⁵ 10⁻⁶⁸⁶ 10⁻⁶⁸⁷ 10⁻⁶⁸⁸ 10⁻⁶⁸⁹ 10⁻⁶⁹⁰ 10⁻⁶⁹¹ 10⁻⁶⁹² 10⁻⁶⁹³ 10⁻⁶⁹⁴ 10⁻⁶⁹⁵ 10⁻⁶⁹⁶ 10⁻⁶⁹⁷ 10⁻⁶⁹⁸ 10⁻⁶⁹⁹ 10⁻⁷⁰⁰ 10⁻⁷⁰¹ 10⁻⁷⁰² 10⁻⁷⁰³ 10⁻⁷⁰⁴ 10⁻⁷⁰⁵ 10⁻⁷⁰⁶ 10⁻⁷⁰⁷ 10⁻⁷⁰⁸ 10⁻⁷⁰⁹ 10⁻⁷¹⁰ 10⁻⁷¹¹ 10⁻⁷¹² 10⁻⁷¹³ 10⁻⁷¹⁴ 10⁻⁷¹⁵ 10⁻⁷¹⁶ 10⁻⁷¹⁷ 10⁻⁷¹⁸ 10⁻⁷¹⁹ 10⁻⁷²⁰ 10⁻⁷²¹ 10⁻⁷²² 10⁻⁷²³ 10⁻⁷²⁴ 10⁻⁷²⁵ 10⁻⁷²⁶ 10⁻⁷²⁷ 10⁻⁷²⁸ 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10⁻⁸⁷² 10⁻⁸⁷³ 10⁻⁸⁷⁴ 10⁻⁸⁷⁵ 10⁻⁸⁷⁶ 10⁻⁸⁷⁷ 10⁻⁸⁷⁸ 10⁻⁸⁷⁹ 10⁻⁸⁸⁰ 10⁻⁸⁸¹ 10⁻⁸⁸² 10⁻⁸⁸³ 10⁻⁸⁸⁴ 10⁻⁸⁸⁵ 10⁻⁸⁸⁶ 10⁻⁸⁸⁷ 10⁻⁸⁸⁸ 10⁻⁸⁸⁹ 10⁻⁸⁹⁰ 10⁻⁸⁹¹ 10⁻⁸⁹² 10⁻⁸⁹³ 10⁻⁸⁹⁴ 10⁻⁸⁹⁵ 10⁻⁸⁹⁶ 10⁻⁸⁹⁷ 10⁻⁸⁹⁸ 10⁻⁸⁹⁹ 10⁻⁹⁰⁰ 10⁻⁹⁰¹ 10⁻⁹⁰² 10⁻⁹⁰³ 10⁻⁹⁰⁴ 10⁻⁹⁰⁵ 10⁻⁹⁰⁶ 10⁻⁹⁰⁷ 10⁻⁹⁰⁸ 10⁻⁹⁰⁹ 10⁻⁹¹⁰ 10⁻⁹¹¹ 10⁻⁹¹² 10⁻⁹¹³ 10⁻⁹¹⁴ 10⁻⁹¹⁵

SETUP-ID: RESVERW TEST RUN NAME: RUN4

29/01/97

Schroff europac PRO 3 HE, Y-Achse

14:16:13



DISPLAY C-CTRL

6-CH6

D-DRIVE

^6-6/CT

FREQ=

40.14

CH6 LEV=

10.24 A

0.3979 V

3.155 D

REF LEV=

1.000 g

CONSTANT

ACC

STEP NO.

1

PH. REF.

3

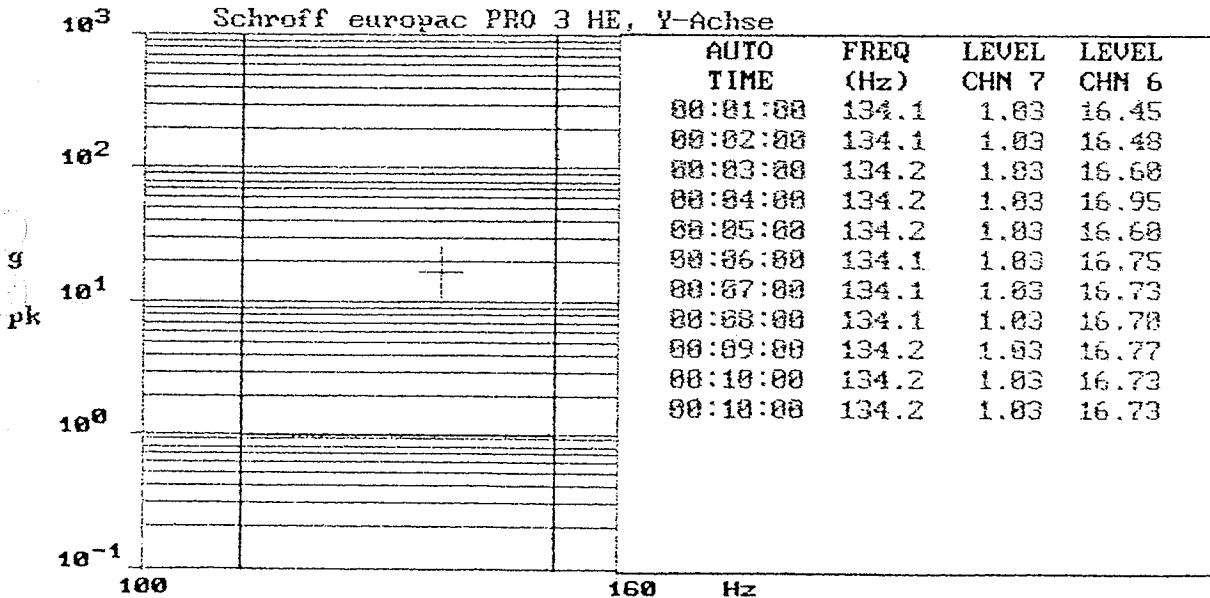
AUTO CYC 18 mU/g 24k AUTO : 00:10:00 STATUS: Finished
 TOTAL: 00:10:50 LEVEL 0.0 dB CH 7 ampl, 6 phase PHASE 1.2°

SETUP-ID: RESVERW TEST RUN NAME: RUN5

29/01/97

Schroff europac PRO 3 HE, Y-Achse

14:36:09



DISPLAY C-CTRL

6-CH6

D-DRIVE

^6-6/CT

FREQ=

134.2

CH6 LEV=

16.70 A

0.1942 V

0.461 D

REF LEV=

1.000 g

CONSTANT

ACC

STEP NO.

1

PH. REF.

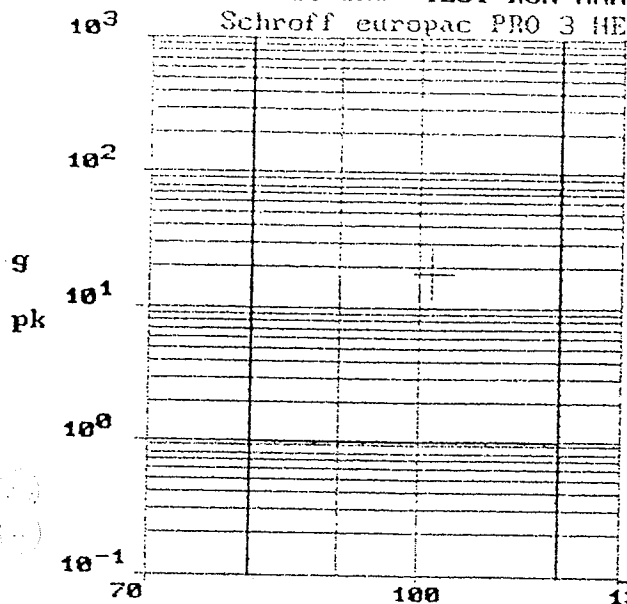
21

AUTO CYC 10 mU/g 80k AUTO : 00:10:00 STATUS: Finished
 TOTAL: 00:12:05 LEVEL 0.0 dB CH 7 ampl, 6 phase PHASE 0.4°

SETUP-ID: RESUERW TEST RUN NAME: RUN7

30/01/97
07:24:12

Schroff europac PRO 3 HE, Z-Achse



AUTO TIME	FREQ (Hz)	LEVEL CHN 2	LEVEL CHN 3
00:01:00	101.7	1.03	17.15
00:02:00	101.8	1.03	17.27
00:03:00	101.8	1.03	17.39
00:04:00	101.8	1.03	17.40
00:05:00	101.7	1.03	17.58
00:06:00	101.8	1.03	17.40
00:07:00	101.8	1.03	17.70
00:08:00	101.6	1.03	17.73
00:09:00	101.7	1.03	17.83
00:10:00	101.7	1.03	17.92

DISPLAY
C-CTRL
3-CH3
D-DRIVE
^3-3/CT
FREQ=
101.7
CH3 LEV=
17.92 A
0.2750 V
0.861 D
REF LEV=
1.000 g
CONSTANT
ACC
STEP NO.
1
PH. REF.
19

AUTO CYC
10 mV/g

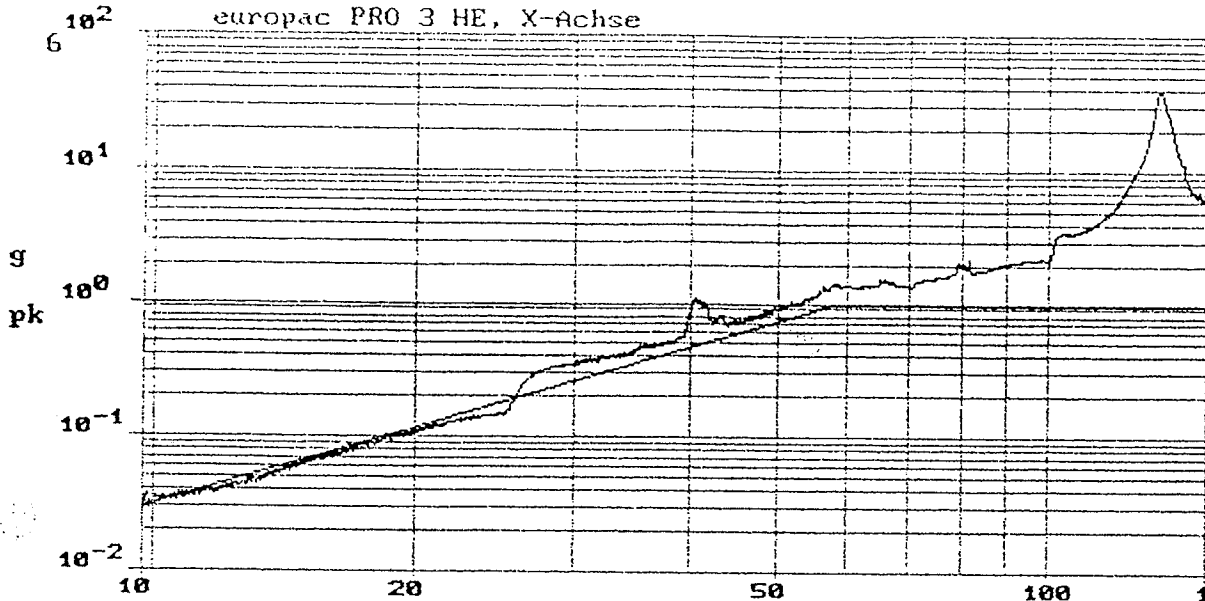
61k AUTO : 00:10:00
TOTAL: 00:10:51

STATUS: Finished

LEVEL 0.8 dB CH 2 ampl, 3 phase PHASE 0.9°

SETUP-ID: SCHROFF TEST RUN NAME: RUN3
europac PRO 3 HE, X-Achse

29/01/97
13:41:32



DISPLAY
C-CTRL
A-ALL
D-DRIVE
^A-A/CT
FREQ=
18.29
CH6 LEV=
0.03 A
0.0053 U
0.164 D
REF LEV=
.150 mm
CONSTANT
DISP
LOG SWP#
20 dn
of 20

10 mV/g AUTO : 01:18:08 STATUS: Finished
MAX SERV SPD 1k TOTAL: 01:18:19 SWEEP TIME: 3.9 Min CHAN 7

TEST SETUP-ID: SCHROFF TEST RUN NAME: RUN4

europac PRO 3 HE, Y-Achse

30/01/97

04:27:23

DISPLAY

C-CTRL

A-ALL

D-DRIVE

A-A/CT

FREQ=

10.02

CH6 LEV=

0.06 A

0.0087 U

0.276 D

REF LEV=

.150 mm

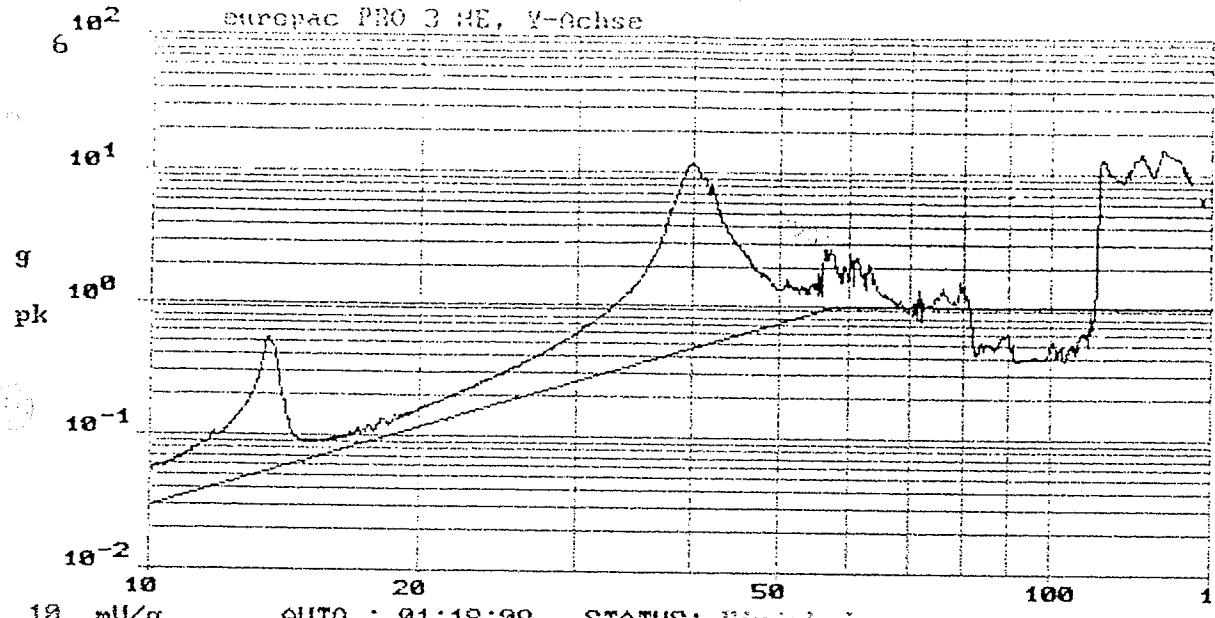
CONSTANT

DISP

LOG SWP#

20 dn

of 20



10 mU/g

AUTO : 01:18:09

STATUS: Finished

MAX SERV SPD 1k TOTAL: 01:19:10

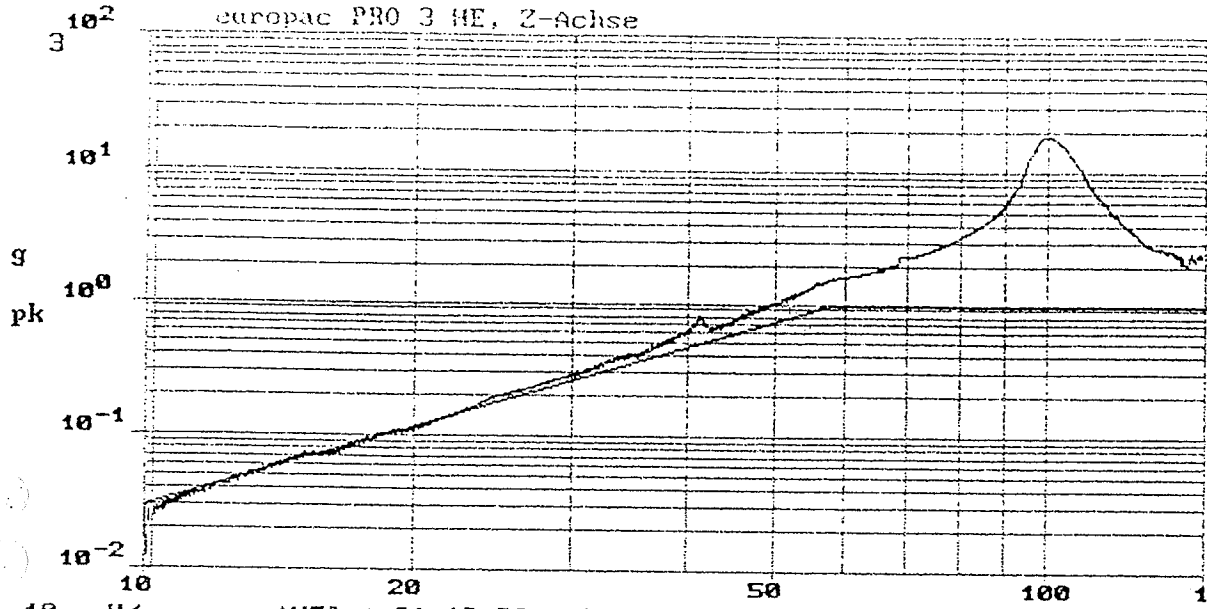
SWEEP TIME: 3.9 Min

CHAN 7

Technischer Überwachungs-Verein
 Südwestdeutschland e. V.
 Fachbereich Gerätetechnik und Elektronik
 Prüfzentrum Elektronik Sensorik Umweltsimulation
 Unterlage / U- 3 /, Blatt 2 bis 3
 Gehört zu Schreiben, Prüfbericht, Gutachten
 Az.: GEL 3- UM-7.810.170053A

TEST SETUP-ID: SCHROFF TEST RUN NAME: RUN5
 europac PRO 3 HE, Z-Achse

30/01/97
 10:48:40
 DISPLAY
 C-CTRL
 A-ALL
 D-DRIVE
 ^A-A/CT
 FREQ=
 18.23
 CH3 LEV=
 0.03 A
 0.0040 V
 0.123 D
 REF LEV=
 .150 mm
 CONSTANT
 DISP
 LOG SWP#
 28 dn
 of 20



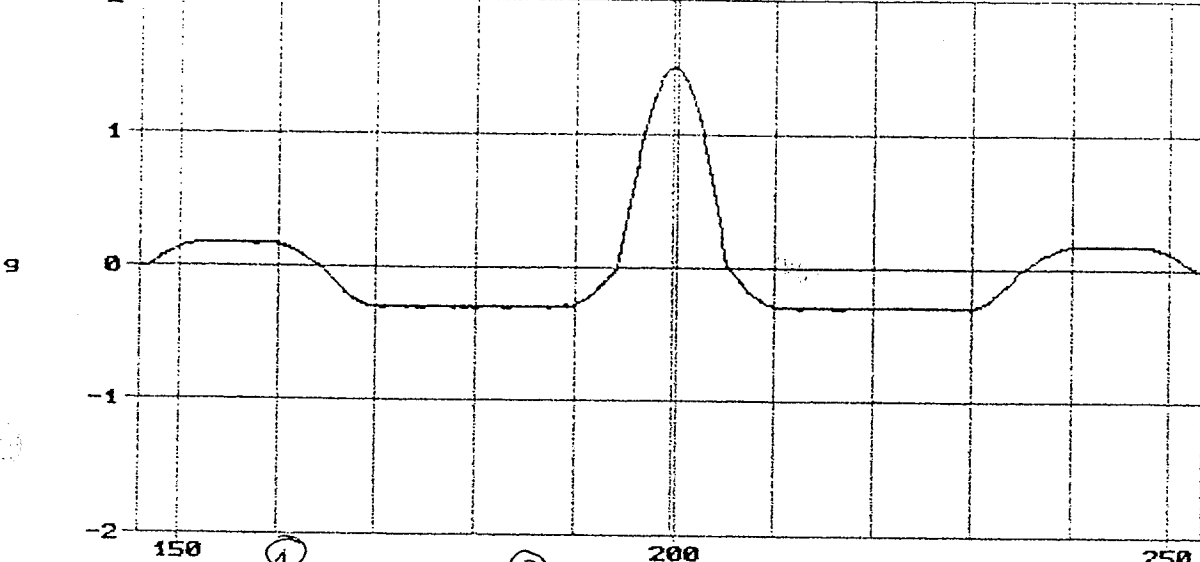
10 mV/g AUTO : 01:18:08 STATUS: Finished
 MAX SERV SPD 1k TOTAL: 01:18:38 SWEEP TIME: 3.9 Min CHAN 2

Technischer Überwachungs-Verein
 Südwestdeutschland e. V.
 Fachbereich Gerätetechnik und Elektronik
 Prüfzentrum Elektronik Sensorik Umweltsimulation
 Unterlage / U- 3 /, Blatt 3 bis 3
 Gehört zu Schreiben, Prüfbericht, Gutachten
 Az.: GEL 3 - UM-7.970170053A

5841 SETUP-ID: 15G11MS RUN NAME: RUN5
Schroff europac PRO 3 HE

11ms (6)
+X-Achse

29/01/97
13:43:32



DISPLAY
A-ACC
U-VEL
L-DISP
E-ERR
S-SRS
O-COHERE
F-FFT
H-DR/CT
D-DRIVE
2-CHAN2

CURSOR
TIME= 199.61 (4)
LEV = 1.497 (5)
X 10⁺¹
10 mU/g
LNS= 640
FRM= 400
msec

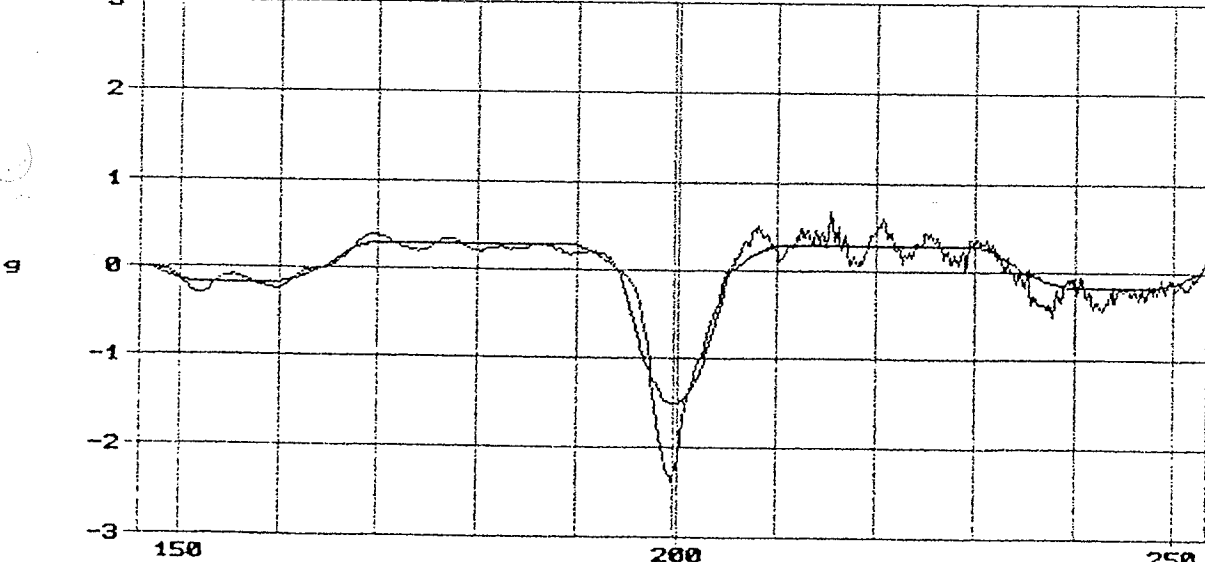
REF G PK: 15.00 AUTO: 3 (3) STATUS: Finished
CON G PK: 14.97 TOTL: 9 LEVEL: 0.00 dB

?-Help CHAN 7

5841 SETUP-ID: 15G11MS RUN NAME: RUN5
Schroff europac PRO 3 HE

11ms
-X-Achse

29/01/97
13:46:04



DISPLAY
A-ACC
U-VEL
L-DISP
E-ERR
S-SRS
O-COHERE
F-FFT
H-DR/CT
D-DRIVE
6-CHAN6

CURSOR
TIME= 199.71
LEV = -2.285
X 10⁺¹
10 mU/g
LNS= 640
FRM= 400
msec

REF G PK: 15.00 AUTO: 3 STATUS: Finished
CH6 G PK: -23.68 TOTL: 3 LEVEL: 0.00 dB

?-Help CHAN 7

SETUP-ID: 15G11MS RUN NAME: RUN7

11ms

30/01/97

X10¹

Schroff europac PRO 3 HE

-Y-Achse

04:31:13

DISPLAY

- A-ACC
- U-UCL
- L-DISP
- E-ERR
- S-SRS
- G-COHERE
- F-FFT
- H-DR/CT
- D-DRIVE

6-CHANG

CURSOR

TIME=

199.71

LEV =

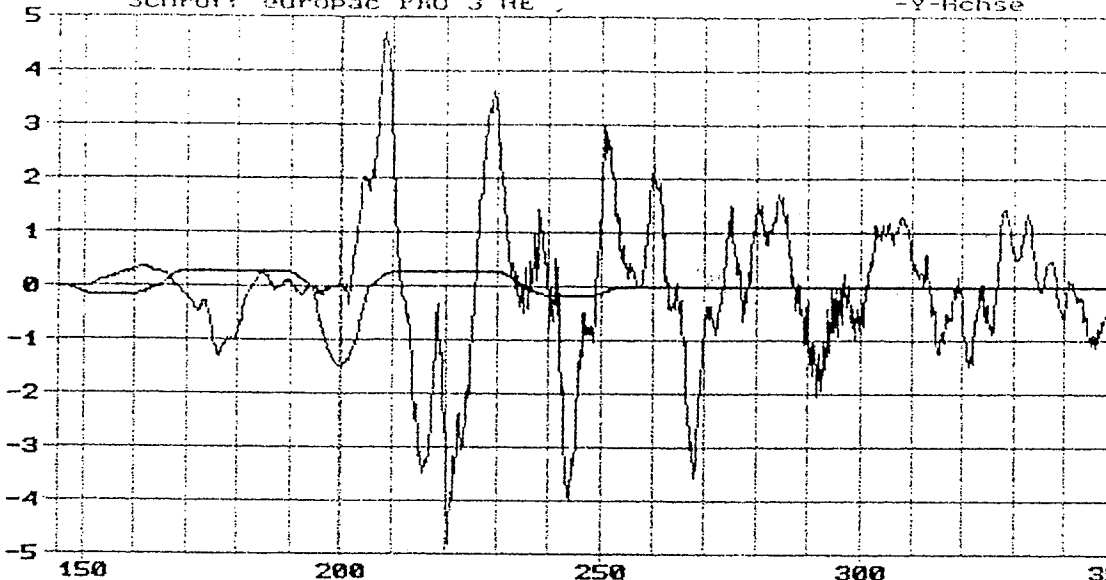
-1.953

X 10⁻¹

10 mU/g

LNS= 640

FRM= 400



REF G PK: 15.00 AUTO: 3 STATUS: Finished
 CHG G PK: -47.95 TOTL: 9 LEVEL: 0.00 dB

?-Help CHAN 7

SETUP-ID: 15G11MS RUN NAME: RUN8

11ms

30/01/97

X10¹

Schroff europac PRO 3 HE

+Y-Achse

04:36:54

DISPLAY

- A-ACC
- U-UCL
- L-DISP
- E-ERR
- S-SRS
- G-COHERE
- F-FFT
- H-DR/CT
- D-DRIVE

6-CHANG

CURSOR

TIME=

199.71

LEV =

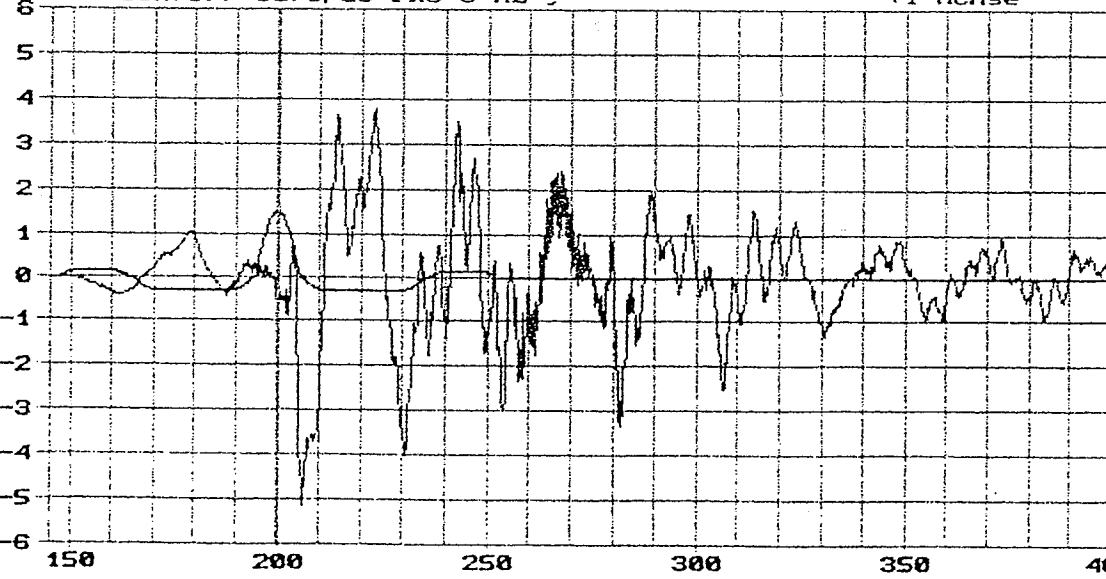
-4.590

X 10⁺⁰

10 mU/g

LNS= 640

FRM= 400



REF G PK: 15.00 AUTO: 3 STATUS: Finished
 CHG G PK: -51.27 TOTL: 3 LEVEL: 0.00 dB

?-Help CHAN 7

SETUP-ID: 15G11MS RUN NAME: RUN9

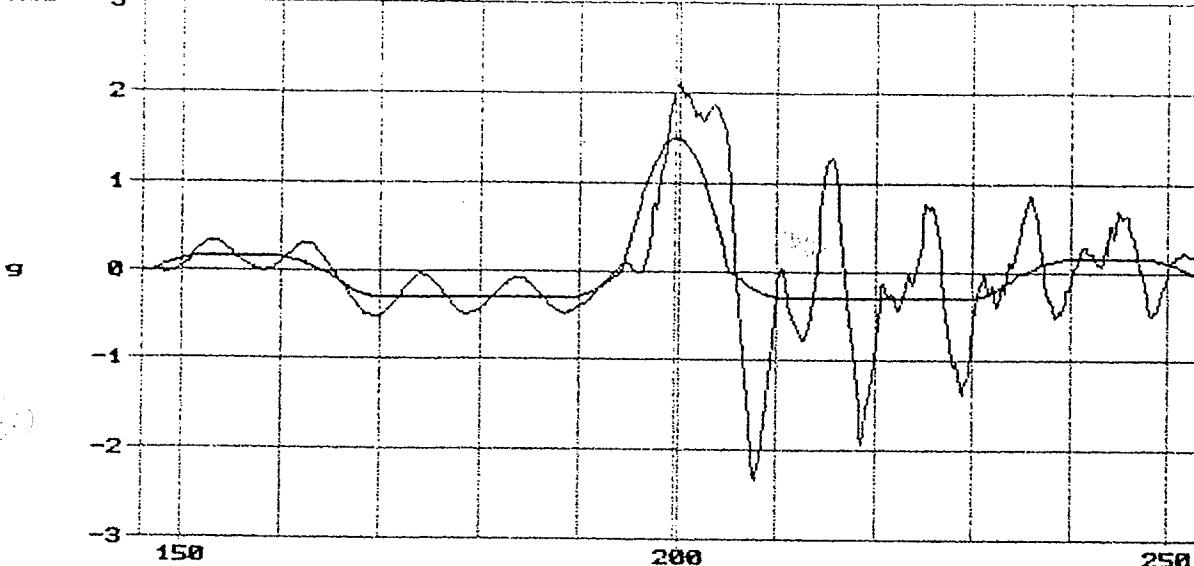
11ms

30/01/97

Schroff europac PRO 3 HE

+Z-Achse

10:50:58



DISPLAY
 A-ACC
 U-UCL
 L-DISP
 E-ERR
 S-SRS
 O-COHERE
 F-FFT
 H-DR/CT
 D-DRIVE

3-CHAN3

CURSOR
 TIME= 199.71
 LEU = 2.026
 $\times 10^{+1}$
 10 mU/g
 LNS= 640
 FRM= 400
 msec

REF G PK: 15.00 AUTO: 3 STATUS: Finished
 CH3 G PK: -23.34 TOTL: 9 LEVEL: 0.00 dB

?-Help CHAN 2

SETUP-ID: 15G11MS RUN NAME: RUN10

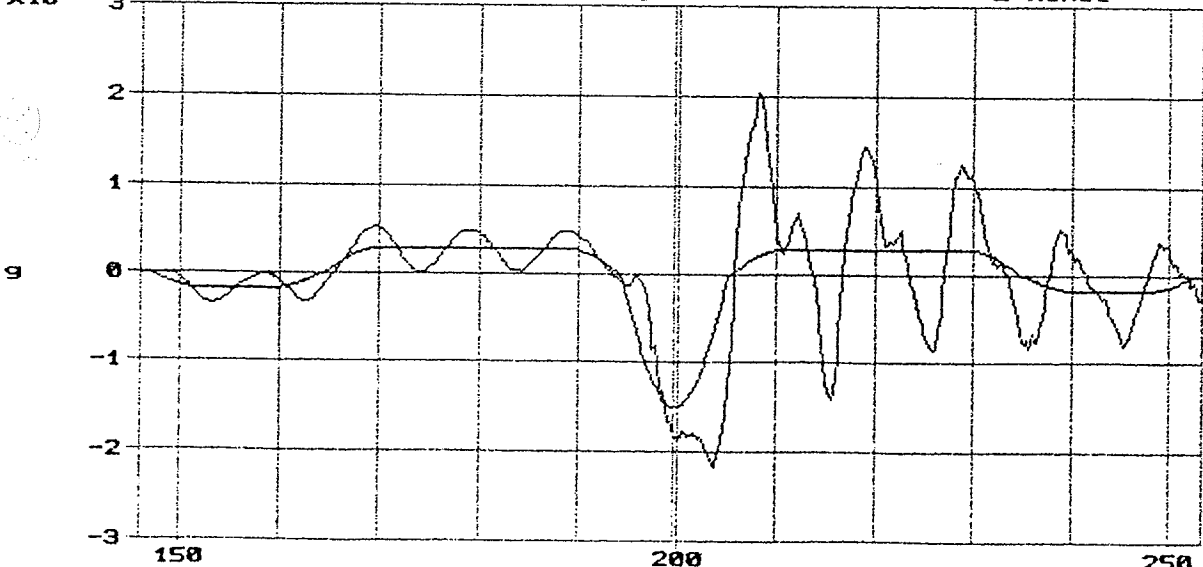
11ms

30/01/97

Schroff europac PRO 3 HE

-Z-Achse

10:53:17



DISPLAY
 A-ACC
 U-UCL
 L-DISP
 E-ERR
 S-SRS
 O-COHERE
 F-FFT
 H-DR/CT
 D-DRIVE

3-CHAN3

CURSOR
 TIME= 199.71
 LEU = -1.797
 $\times 10^{+1}$
 10 mU/g
 LNS= 640
 FRM= 400
 msec

REF G PK: 15.00 AUTO: 3 STATUS: Finished
 CH3 G PK: -21.53 TOTL: 3 LEVEL: 0.00 dB

?-Help CHAN 2

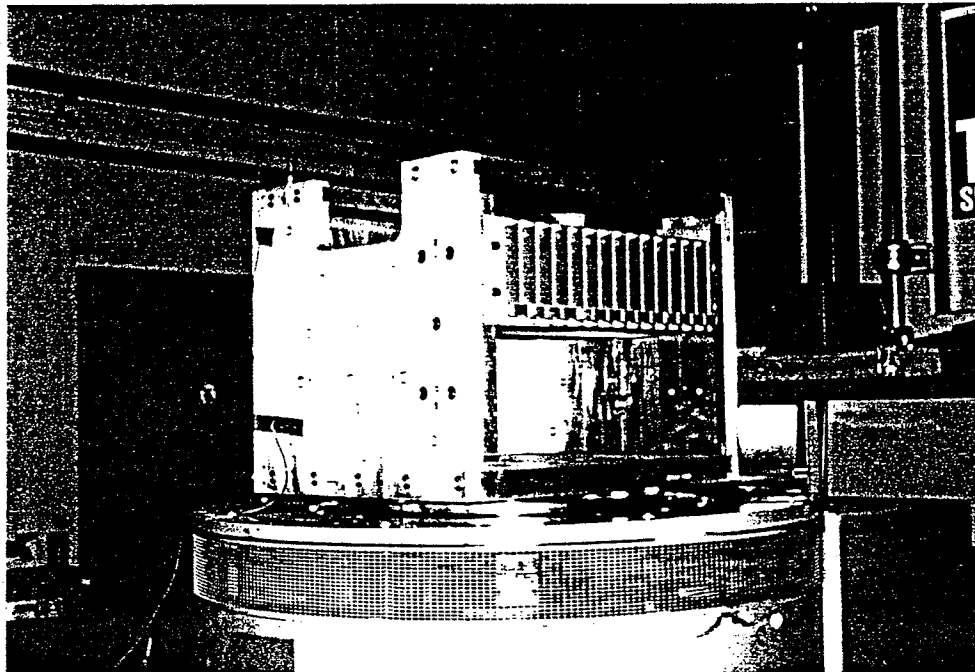


Bild 1: Zur Verdeutlichung der Anregungsachsen

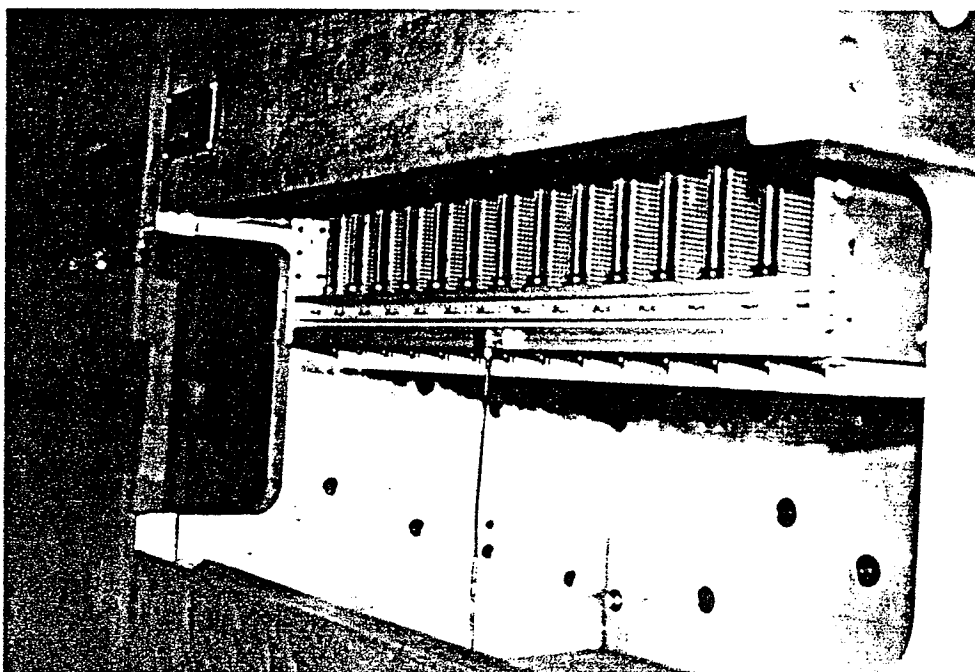


Bild 2: Meßstelle