

DOT 490

RESEARCH RABBIT (MIV) Modified Integrated Vehicle

Phase 1



VOLKSWAGENWERK
Aktiengesellschaft
WOLFSBURG

Contract No. DTNH 22-81-C-17085

June 1982

Final Report

Volume III/6 Side Impact

PREPARED FOR:

U. S. DEPARTMENT OF TRANSPORTATION

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

WASHINGTON, D. C. 20590

Prepared for the Department of Transportation, National
Highway Traffic Safety Administration under Contract No.
DTNH 22-81-C-17085

The opinions, findings, and conclusions expressed in this
publication are not necessarily those of the
National Highway Traffic Safety Administration.

Technical Report Documentation Page

1. Report No.	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle Research Rabbit (MIV) Modified Integrated Vehicle		5. Report Date June 1982	
		6. Performing Organization Code	
		8. Performing Organization Report No.	
7. Author(s) Volkswagenwerk AG - Research & Development Division		10. Work Unit No. (TRAIS)	
9. Performing Organization Name and Address Volkswagenwerk AG Research & Development Division 3180 Wolfsburg/W. Germany		11. Contract or Grant No. DTNH 22-81-C-17085	
		13. Type of Report and Period Covered Final Report January 1981 June 1982	
12. Sponsoring Agency Name and Address U.S. Department of Transportation National Highway Traffic Safety Administration Washington, D.C. 20590		14. Sponsoring Agency Code	
15. Supplementary Notes			
16. Abstract Vehicle and vehicle occupant response data and technical data from side impact test No. 6 - Crabbed Barrier/1981 Production 4 door Rabbit at 60° impact angle and v = 40 mph impact speed are summarized in this report.			
Volume III/6			
17. Key Words		18. Distribution Statement	
19. Security Classif. (of this report)	20. Security Classif. (of this page)	21. No. of Pages 148	22. Price

The Test Results belong to the specified NHTSA Test Configuration for Side Impacts with the Crabbed Barrier and HSRI-SID-Dummies both of which are currently under development.

NHTSA Project DTNH 22-81-C-17085

Volume III/ 6

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1. Introduction

The Objective of the MIV project was to optimize the contradictory design aspects of a high degree of passive safety and low fuel consumption.

The project was arranged in Phase I and II. The results of Phase I are the basis of this report. Phase II was redefined by NHTSA. According to this, the three engine/transmission concepts that were to be newly developed are no longer part of Phase II.

Possibilities were to be found for a 4 door Rabbit for further increasing occupant protection in specified side and frontal impacts. The Rabbit Modifications should be possible to implement on the production line. NHTSA's design goals were the 35 mph frontal fixed barrier impact and the 30, 35 or 40 mph side impact with the new 1.565 kg (3,450 lbs) deformable Crabbed Barrier and the new HSRI Dummy which were specially conceived for the side impact and are presently still under development.

Modifications for the 4 door Rabbit were derived from Crabbed Barrier/Production Rabbit baseline tests.

NHTSA contract specifications called for a maximum weight increase of 20 lbs for the modified 4 door Rabbit.

The NHTSA goal to achieve the greatest possible reduction in dummy loads, in keeping with the objective of lowest possible weight together with the prerequisite that the design be suited to mass production at the lowest possible cost, required the development of a new "Integrated Structure" for the 4 Door Modified Rabbit. This concept requires that the greatest number of components be effective during a frontal and a side impact. The "Integrated Structure" approach, rather than the Budd strategy to use add-on parts, is necessary to achieve the goals established by NHTSA.

2. Method

- 2.1 Test Devices and Test Configuration
- 2.2 List of Accelerometer Location
 - 2.2.1 Target Vehicle Instrumentation
 - 2.2.2 Side Impactor Instrumentation
 - 2.2.3 Dummy Instrumentation
- 2.3 Camera Location and Frame Rate

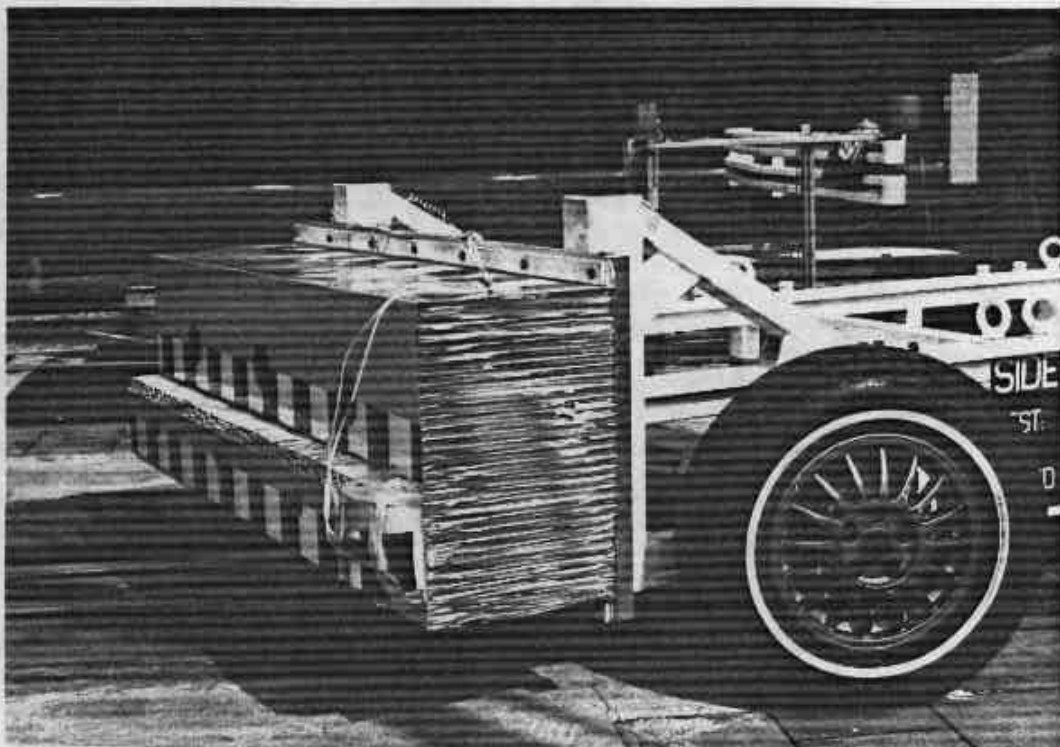


FIGURE 1 : 19° CRABBED BARRIER TEST DEVICE



FIGURE 2 : HSRI SIDE IMPACT DUMMY

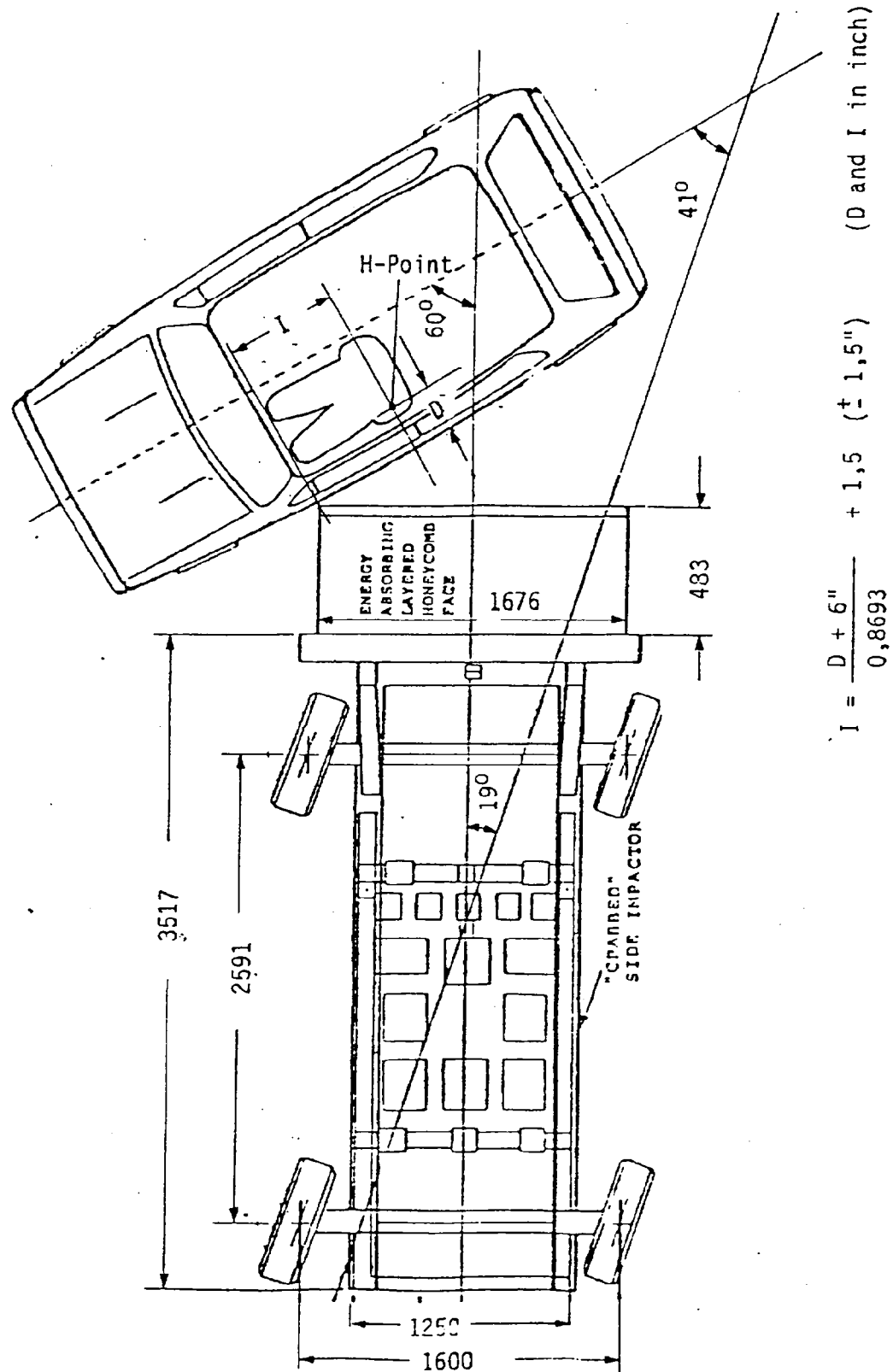


Figure 3: Test Configuration

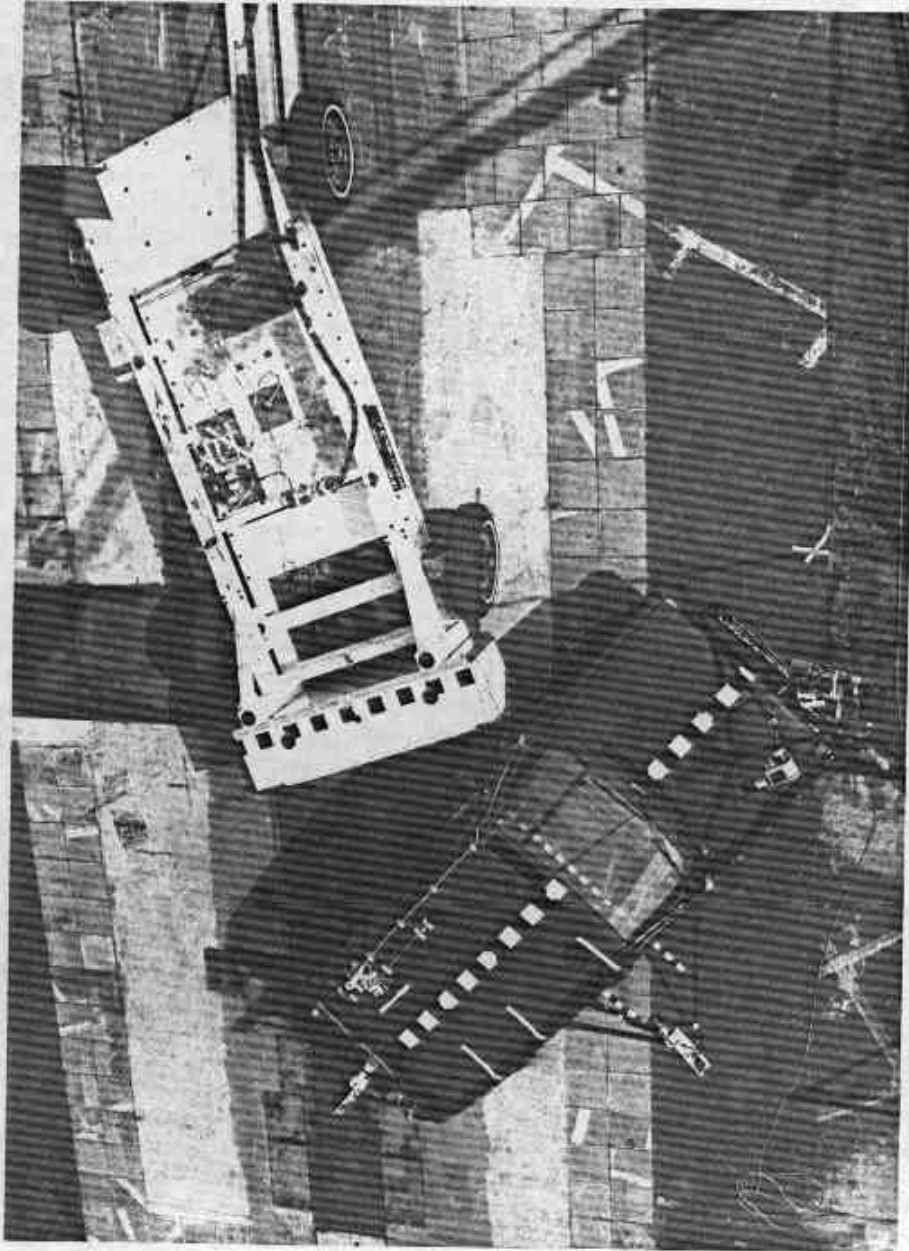


FIGURE 4 : SIDE IMPACT TEST CONFIGURATION
CRABBED BARRIER / VW RABBIT

Table 1: List of Accelerometer - LocationVEHICLE

No.	Location	Shortened Form	Direction
1	Right Front-Doorsill	TSVR	Y
2	Left Front-Doorsill	TSVL	Y
3	Left Rear-Doorsill	SHHL	Y
4	Rear Deck over Centerline	KOBO	X, Y, Z
5	Front Firewall over C _L	SWMI	X, Y, Z
6	Mid-front Edge of left Front-Door	TTRV	Y
7	Middle of left Front-Door	TTRM	Y
8	Shoulder Contact at Front-Door	SASL	Y
9	Pelvis Contact at Front-Door	BASL	Y
10	Left Front-Door on Windowsill	FBVL	Y
11	Right Front-Door on Windowsill, directly across No. 10	FBVR	Y
12	Left B-Pillar near Door Latch	BSLL	Y
13	Right B-Pillar across No. 12	BSLR	Y
14	Underneath left Front Seat attached to Seat	SGFA	Y
15	Vehicle Center of Gravity	RTMI	X, Y, Z
16	Left Front-Door Intrusion	FTWE	Y
17	B-Pillar Intrusion	THWE	Y
18	Shoulder Contact Driver	SK01K	
19	Pelvis Contact Driver	BK01K	
20	Shoulder Contact Left Rear Passenger	SK03K	
21	Pelvis Contact Left Rear Passenger	BK03K	

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1	Right Frame Rail	LTRR	X
2	Left Frame Rail	LTRL	X
3	Front Crossmember at C _L	QTVM	X
4	Right Rear Vertikal Framerrail	RHTR	X, Y
5	Center of Gravity	SPKT	X, Y, Z

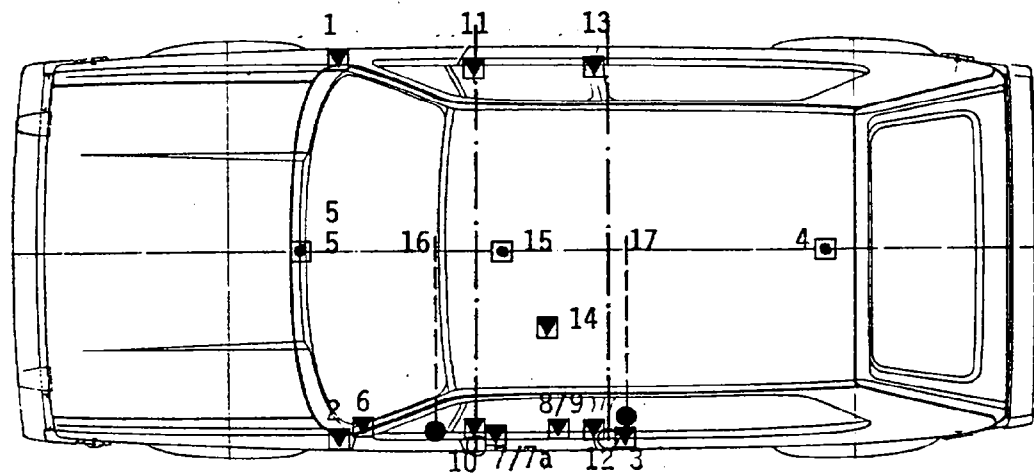
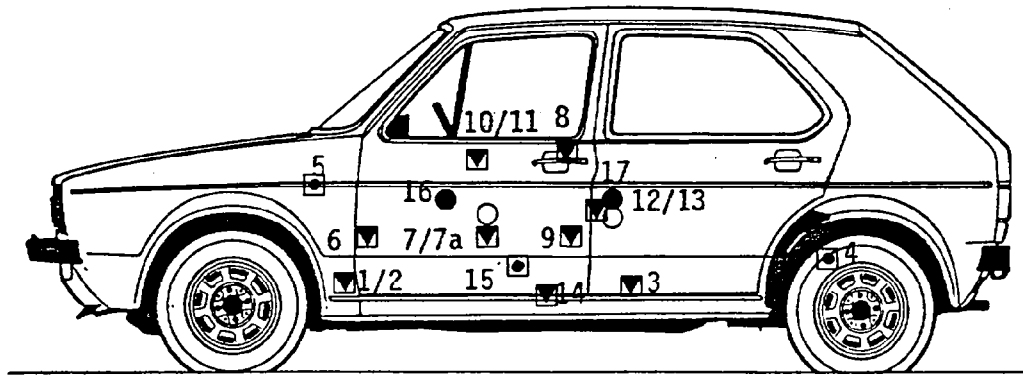
Declaration: X = Longitudinal

Y = Lateral

Z = Vertikal

Location of Accelerometer for the HSRI
Side Impact Dummies

<u>Location</u>	<u>Shortened Form</u>	<u>Direction</u>
<u>D R I V E R</u>		
Head Triaxial	K001	X, Y, Z
Upper Sternum	B001	X
Lower Sternum	BU01	X
Left upper Rib	L001	Y
Left lower Rib	LU01	Y
Right upper Rib	R001	Y
Right lower Rib	RU01	Y
Upper Thorax (T 1)	T001	X, Y, Z
Lower Thorax (T 12)	TU01	X, Y, Z
Pelvis Triaxial	BE01	X, Y, Z
Chest Deflection	WE01	Y
Shoulder Beltforce	GU01SA	
<u>R E A R L E F T P A S S E N G E R</u>		
Head Triaxial	K003	X, Y, Z
Upper Sternum	B003	X
Lower Sternum	BU03	X
Left upper Rib	L003	Y
Left lower Rib	LU03	Y
Right upper Rib	R003	Y
Right lower Rib	RU03	Y
Upper Thorax (T 1)	T003	X, Y, Z
Lower Thorax (T 12)	TU03	X, Y, Z
Pelvis Triaxial	BE03	X, Y, Z
Chest Deflection	WE03	Y
Pelvis Beltforce	GU03BA	



Axial Accelerometer (Y - Direction)



Biaxial Accelerometer (X, Y - Direction)



Triaxial Accelerometer (X, Y, Z -Direction)



Displacement Tube



Displacement Transducer

Note: See Table for Additional Information

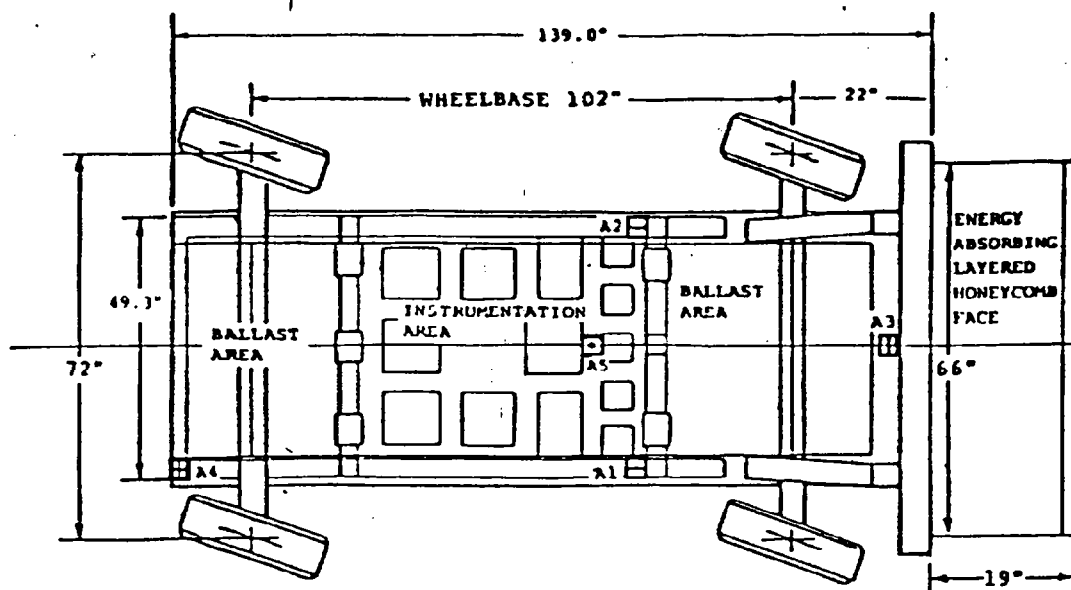
Figure 5 : Target Vehicle Instrumentation

No.	Accelerometer - Location	Coordinates [mm]			Results [g _{max}]		
		X *	Y *	Z *	X	Y	Z
1	Occupant Compartment, right Front-Doorsill	2630	620	300		29.7	
2	Occupant Compartment, left Front-Doorsill	2630	-620	300		134.0	
3	Occupant Compartment, left Rear-Doorsill	1410	-560	290		176.0	
4	Rear Deck over Vehicle Centerline	910	0	440	21.3	28.8	16.0
5	Front Firewall over Vehicle Centerline	2890	0	650	24.2	11.7	7.1
6	Mid-front Edge of Left Front Door	2550	-620	457		133.3	
7	Middle of left Front Door	2060	-620	630		135.7	
8	Shoulder Contact Front Door	1775	-665	850		194.9	
9	Pelvis Contact Front Door	1840	-660	480		154.9	
10	Left Front Door on Windowsill, slightly forward of surrogate's	2050	-650	850		106.7	
11	Right Front Door on Windowsill, directly across from Nr. 10	2050	650	850		21.4	
12	Left B-Pillar near Door Lock	1480	-650	670		76.7	
13	Right B-Pillar across from Nr. 12	1480	650	670		33.8	
14	Underneath left Front Seat attached to Seat	1960	325	285		91.8	
15	Vehicle Center of Gravity				18.0	95.1	15.7
16	Displacement Transducer Front Door	2235	-	670		0.43 m	
17	Displacement Transducer B-Pillar	1415	-	850	not available		
7a	Middle of Front Door Beam	2060	-700	457		77.7	

* Reference Points: X - Rear Bumper
Y - Vehicle Centerline
Z - Ground Level

Table 2: Summary of Target Vehicle Instrumentation

TEST NO : 6



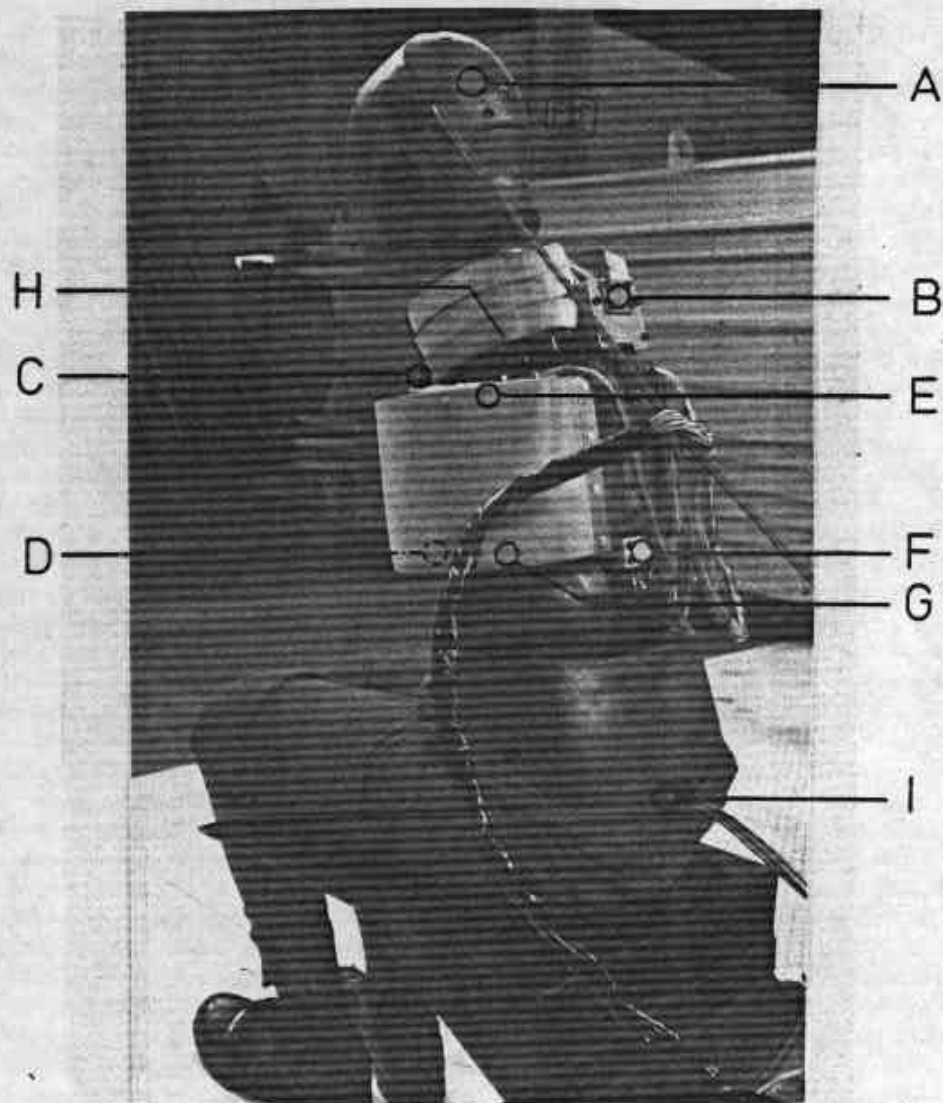
-  Axial Accelerometer, Longitudinal
-  Biaxial Accelerometer, Long., Lat.
-  Triaxial Accelerometer, Long., Lat., Vert.

No.	Accelerometer - Location	Coordinates [mm]			Results [G]		
		X	Y	Z	Long	Lat	Vert
A 1	Right Frame Rail	2134	584	508	10.9		
A 2	Left Frame Rail	2134	-584	508	12.8		
A 3	Front Crossmember at Centerline	3300	0	610	14.2		
A 4	Right rear vertical Frame Rail	228	560	407	10.5	8.5	
A 5	Side Impactor Center of Gravity	1727	0	305	11.3	3.6	6.6

Reference Plane: X - Rear of Side Impactor
Y - Side Impactor Centerline
Z - Ground

TEST NO : 6

FIGURE 6 : SIDE IMPACTOR INSTRUMENTATION



- | | |
|---------------------------------|----------------------------------|
| A. Head Triaxial | F. Lower Thorax (T 12), Triaxial |
| B. Upper Thorax (T 1), Triaxial | G. Left Lower Rib, Lateral |
| C. Upper Sternum, Longitudinal | (also on right) |
| D. Lower Sternum, Longitudinal | H. Displacement Transducer |
| E. Left Upper Rib, Lateral | I. Pelvis, Triaxial |
| (also on right) | |

Figure 7 : Location of 18 Accelerometer for Side Impact Dummy

Test No: 6 Test Date: 02.18.1982

Test Type: 60° Side Impact Simulation

Vehicle A: Side Impactor

Vehicle B: VW-Rabbit

Comments: Side Impactor "Crabbed" 190

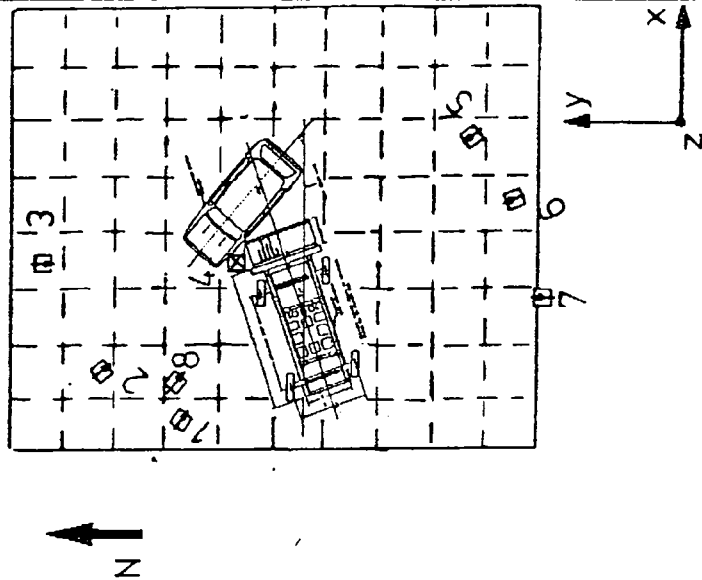
Camera Symbols

- ☐ Pit 1. 1000 fr/sec
- ☐ Ground 2. 25 fr/sec
- ☐ Barrier 3. 400 fr/sec
- ☒ Overhead
- ☐ On-Board

Timing Light, Speed

- 1. 100 Hz (10 msec/light)
- 2. Other

Camera	Yes
Stills	X
Movie	X
Slides	
Polaroid	



Loc. No.	Location	Field of View	Lens Size	Frm Rate	Tmng Spd	Real Fr.R.	Impact Dist-X	C. L. Dist-Y	Cam [m] Dist-Z
1	North Side -Parallel To Bullet	Overall of Both Vehicles (Locam)	16	3	10	400	-7.0	4.0	1.3
2	North Side -Parallel to Target	Close-up of Both Vehicles at Impact (Locam)	10	3	10	370	-3.0	4.5	2.2
3	North Side-Perpendicular to Bullet	Overall of Both Vehicles (Locam)	26	3	10	410	8.0	4.0	1.3
4	Overhead	Elevated - Looking Down at Impact Point (Photostatics)	10	3	10	300	-0.8	2.0	7.0
5	South Side -Parallel to Target	Close-up of Both Vehicles at Impact (Locam)	16	3	10	400	10.0	-12.0	1.3
6	South Side- Perpendicular to Target	Overall of Both Vehicles (Arriflex)	16	2	-	25	5.0	-12.0	1.0
7	South Side	Overall of Both Vehicles (Locam)	16	3	10	300	2.0	-12.0	1.3
8	North Side	Overall of Both Vehicles (Mitchel) (35 mm)	50	2	-	60	-4.5	4.0	1.4

Figure 8 :Camera Location - Ground based

Test No.: 6 Test Date: 02.18.1982

Test Type: 60° Side Impact Simulation

Vehicle A: Side Impactor

Vehicle B: VW-Rabbit

Comments: Side Impactor "Crabbed" 19°

Camera Symbols Frame Rate

☐ on-Board

1. 1000 fr/sec

☐ Ground

2. 400 fr/sec

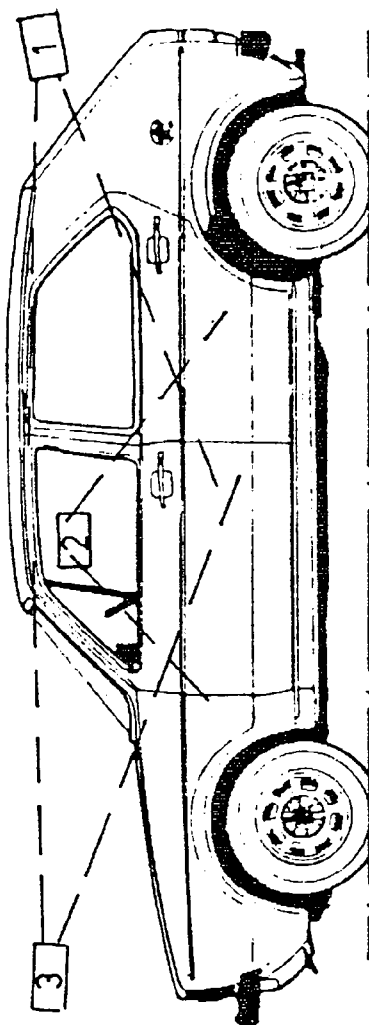
☐ Overhead

3. Other _____ fr/sec

Timing Light, Speed

1. 100 Hz (10msec/light)

2. —Other _____



Loc. No.	Location	Field of View	Lens Size	Frm Rate	Timng Spd	Impact Dist-X	C. L. Dist-Y	CAM Dist-Z [m]
1	Vehicle Rear Hatch-back Door	Front and Rear Occupant Compartment (Photosonics)	8	1	1	~800		
2	Vehicle Right Front Door	Front Occupant Compartment (Photosonics)	8	1	1	800		
3	Vehicle Front Right Side	Front and Rear Occupant Compartment (Stalex)	8	1	1	1000		

Figure 9: Camera Locations - on Board

- 3. Test Parameter and Results
 - 3.1 Crash Test Summary
 - 3.1.1 Target Vehicle
 - 3.1.2 Side Impactor (19° Crabbed Barrier)
 - 3.2 Pre-Test Conditions
 - 3.2.1 Driver Pre-Test Position
 - 3.2.2 Rear Passenger Pre-Test Position
 - 3.3 Vehicle Pre- and Post-Test Position
 - 3.4 Post-Test Observations
 - 3.5 Dummy Test Response
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 - 3.5.3 AIS and Coefficients
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 - 3.6.1 Pre- and Post-Test Measurements
 - 3.6.2 Exterior and Interior Vehicle Measurement
 - 3.6.3 Exterior and Interior Static Crush (Top View)
 - 3.6.4 Exterior and Interior Static Crush (Front View)
 - 3.7 Crabbed Barrier Test Response
 - 3.7.1 Pre- and Post-Test Frontal Profile
 - 3.7.2 Exterior Static Crush

Table 3 : Crash Test Summary for Target Vehicle

VEHICLE DATA		TEST 6	
Test Vehicle		VW Rabbit 4 Door	
Overall Length/Width (mm)		3930 / 1610	
Test Weight by Wheel (kp)		LR 245	RR 269
		LF 345	RF 326
Total Weight (kp)		1185	
Wheelbase (mm)		2400	
Longitudinal C.G. (from Center of Front Axle) (mm)		1041.01	
Impact Angle (deg) *		60	
Impact Speed (mph)		0 (stationary)	
Maximum C.G. Resultant Velocity Change (mph // msec)			
Maximum C.G. Resultant Acceleration (G // msec)		95.2 // 44	
Maximum Door Acceleration (G // msec)**		154.9 // 30	
Maximum Exterior Static Crush (mm)		377	
• Level 4 (32.0")		379	
• Level 3 (26.0")		426	
• Level 2 (20.0")		240	
• Level 1 (12.0")			
Maximum Post-test Intrusion (mm)		385	
OCCUPANTS			
Type		SID	SID
Location		Driver	Left Rear Passeng.
Restraints		Restraint Aut.	Pelvis Belt
INSTRUMENTATION			
Number of Data Channels		71	
Number of cameras (On Board)		3	

* With respect to bullet vehicle.

**At mid-rear edge of left front door.

Table 4 : Crash Test Summary for Side Impactor

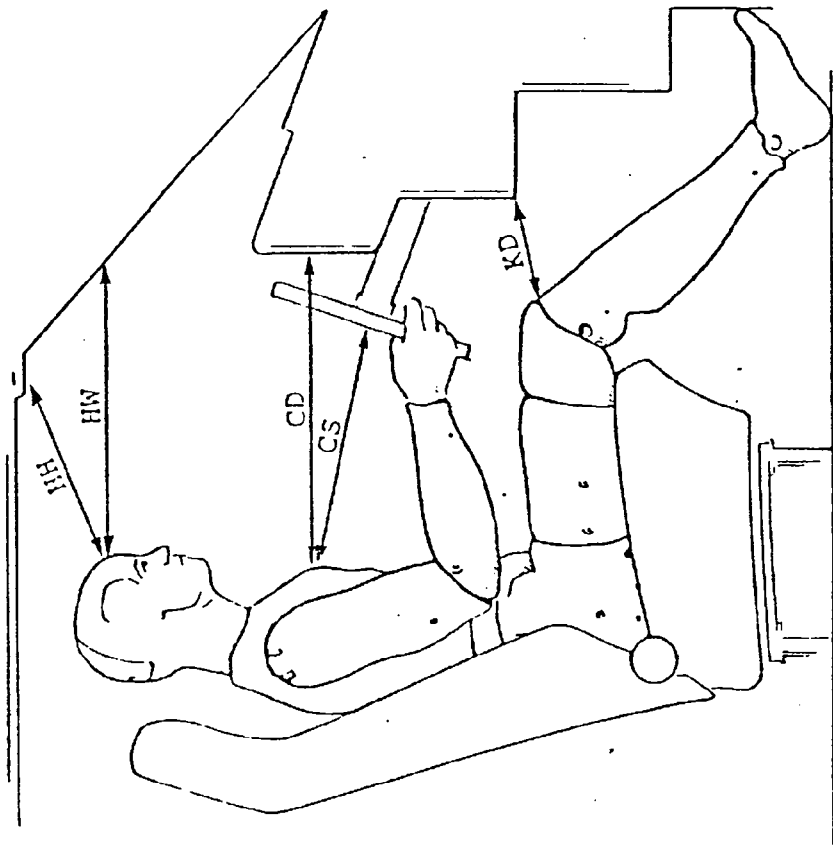
VEHICLE DATA		TEST	6
Test Vehicle		19° Crabbed Side Impactor	
Overall Length/Width (mm)		4000 / 2155	
Test Weight by Axle (kp)		LR	398 RR 383
Total Weight (kp)		LF	390 RF 401
Wheelbase (mm)		1572	
Longitudinal C.G. (from Center of Front Axle) (mm)		2591	
Impact Angle (deg)		1266	
Impact Speed (mph)		60°	
Maximum C.G. Resultant Velocity Change (mph msec)		40.03	
Maximum C.G. Average Resultant Compartment Acceleration (G msec)			
Maximum Static Crush (mm)			
● Row C (Top of Stack Level)		150	
● Row B (Mod-Stack Level)		157	
● Row A (Bumper Level)		270	
<u>OCCUPANTS</u>			
Type		--	
Location		--	
Restraints		--	
<u>INSTRUMENTATION</u>			
Number of Data Channels		10	
Number of Cameras (Ground Based)		8	

Test No.: 6 Vehicle: 705114 LF 345 (kp) RF 326 (kp)
 Test Date: 02.18.82 Total Test Wt. 1185 (kp) LR 240 (kp) RR 274 (kp)

HEAD RESTS - up down other none
 FRONT SEAT - forward midpoint rearward latched welded
 FRONT SEAT TILT - forward midpoint back other 25° none
 REAR SEAT - in place removed
 STEERING WHEEL - up midpoint down not adjustable
 SUN VISORS - up down removed
 GLOVE COMPARTMENT - locked closed none
 SEAT BELT - fastened unfastened removed none
 SHOULDER HARNESSSES - fastened unfastened removed
 VENT WINDOW - closed open removed none stationary
 LEFT FRONT WINDOW - up down removed
 RIGHT FRONT WINDOW - up down removed
 LEFT REAR WINDOW - up down removed
 RIGHT REAR WINDOW - up down removed
 BACKLIGHT - in place removed
 LEFT FRONT DOOR - closed locked removed
 RIGHT FRONT DOOR - closed locked removed
 LEFT REAR DOOR - closed locked removed
 RIGHT REAR DOOR - closed locked removed
 ENGINE - in place removed mounts modified
 TRANSMISSION - neutral other _____ removed
 DRIVESHAFT - in place removed
 PARKING BRAKE - off on disconnected
 FRONT BUMPER - in place removed none
 REAR BUMPER - in place removed none
 HOOD - in place removed
 WINDSHIELD WIPERS - in place removed
 FUEL TANK - 95 Percent full empty other _____
 RADIATOR - full empty none removed
 BATTERY - in place removed drained
 SPARE TIRE - in place removed none
 JACK - in place removed none
 WHEEL COVERS - in place removed none
 BALLAST - none _____ kg
 DUMMY LOCATION - LF RF LR RR none
 DUMMY POSITIONING CRITERIA - FMVSS 208 side impact criteria other

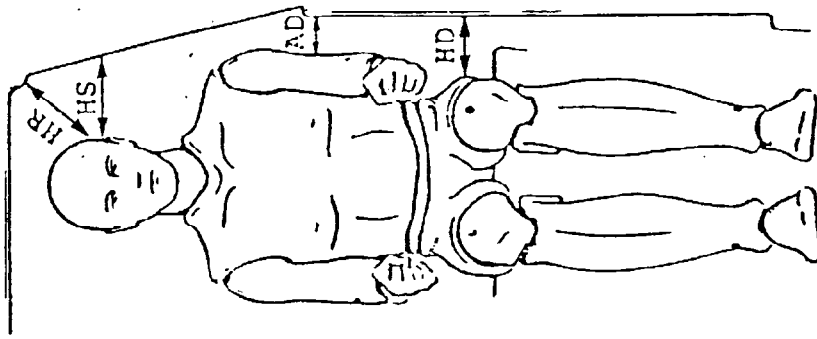
Table 5 : Pre-Test Conditions

TEST NO : 6



HH=	395
HW=	525
CD=	510
CS=	300
KD=	80

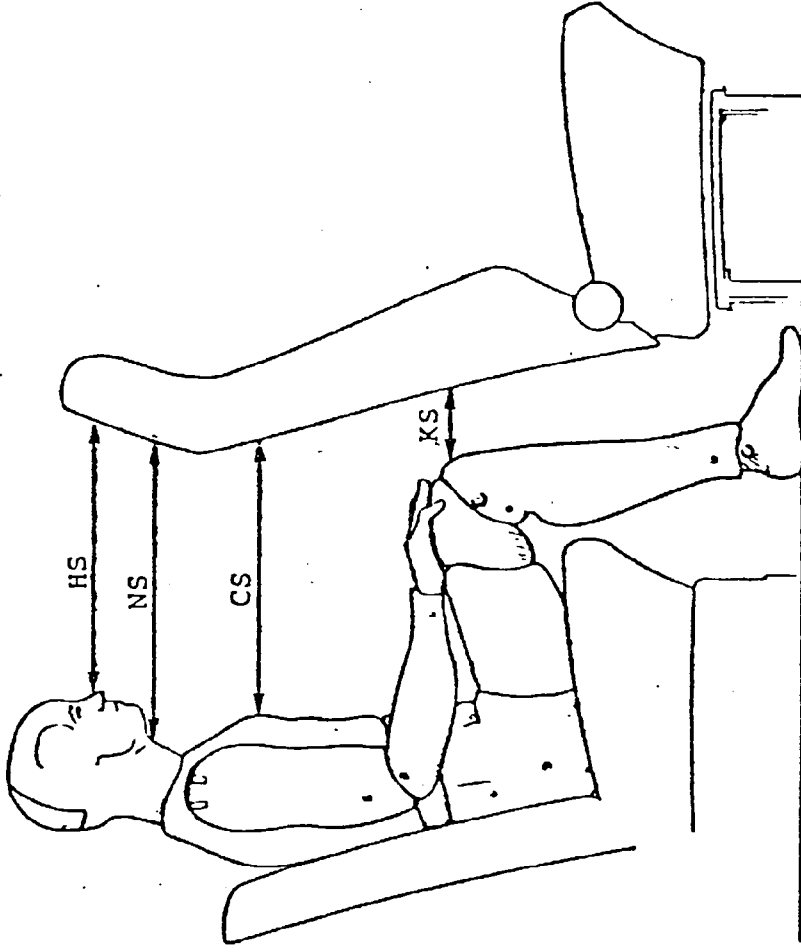
(ALL DIMENSION IN MM)



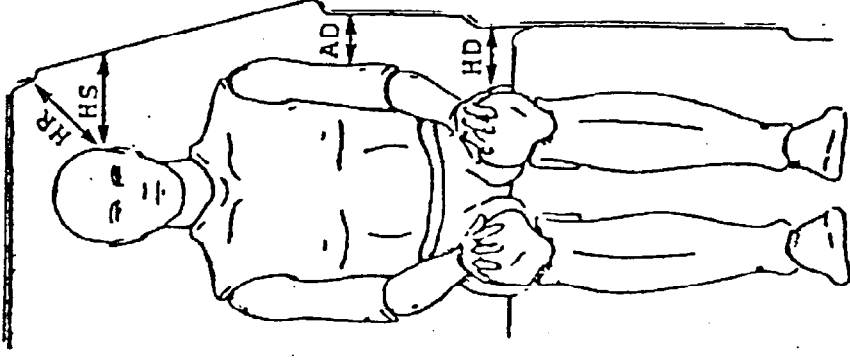
HR=	145
HS=	150
AD=	90
HD=	150

Table 6 : Driver Pre-Test Position

TEST NO : 6



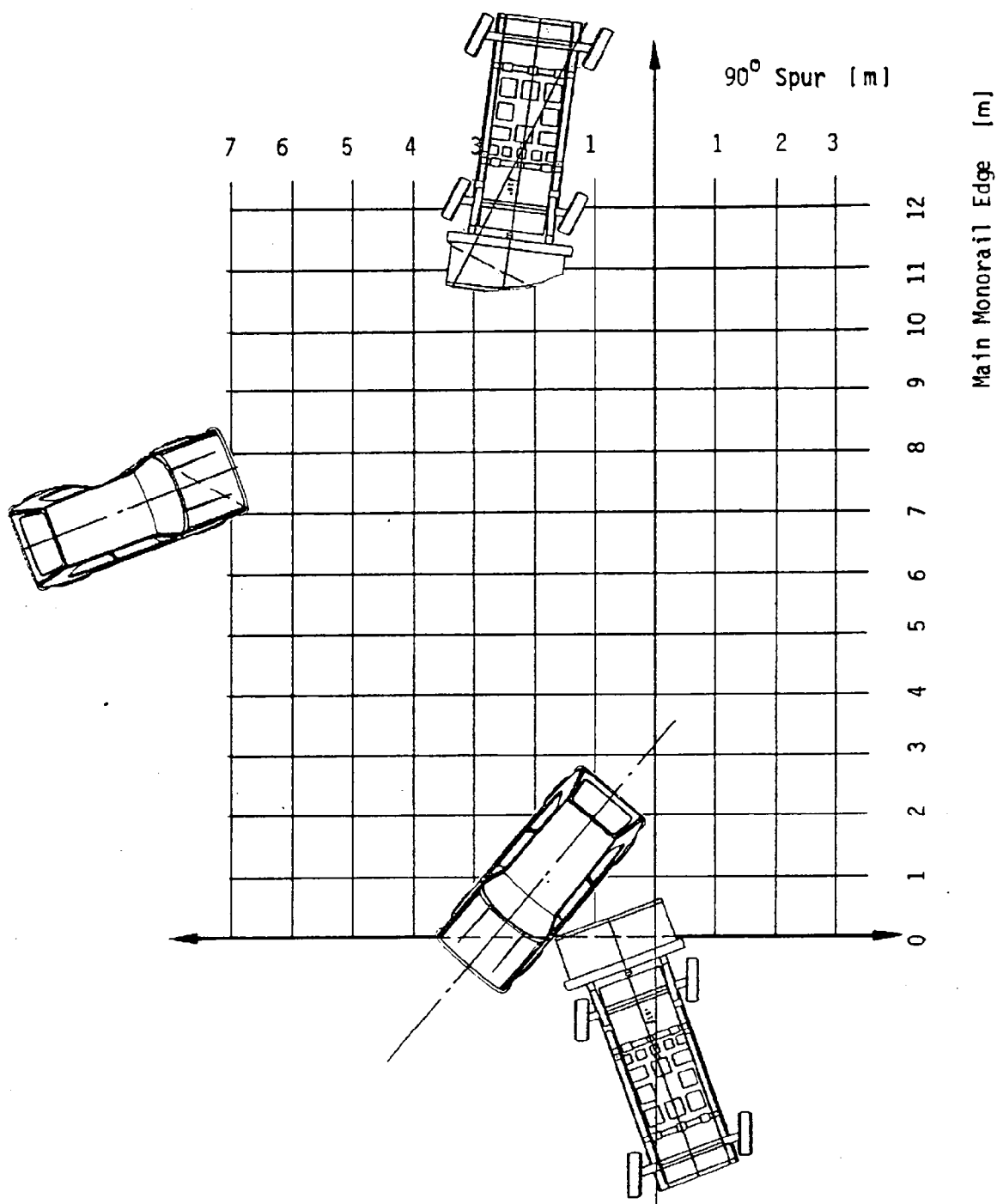
HS	470
NS	520
CS	410
KS	95



HR	170
HS	190
AD	120
HD	160

Table 7 : Rear Passenger Pre-Test Position

**Table 8 : Vehicle Pre- and Post-
Test Position**



TEST NO : 6

Table 9 : Summary of Post-Test Observations

VEHICLE: VW Rabbit 7

Test No. (Moving Test Device) 6

Dummy Contact Points:	<u>Left Front</u>	<u>Left Rear</u>
Head	<u>no Contact</u>	<u>Contact at C-Pillar and</u> <u>Roof-Line</u>
Chest	<u>Upper Door-Panel and</u> <u>lower Window-Sill</u>	<u>Upper Door-Panel and</u> <u>lower Window-Sill</u>
Knees/Hip	<u>Lower Front-Door Panel</u>	<u>Lower Rear-Door Panel</u>

Glazing: Left Front- and Rear Side-Window shattered. Windshild cracked.

Doors: Left Front- and Rear-Door damaged, would not open. Left Inner-Door
tore out from the Outer-Door.

Seat Belt Anchorages : Left Seat Frame damaged. Left Seat-Leg and the
Seat-Runner separated from Floor-Rails. Seat Support damaged.

Restraints: Driver (RA) and Left Rear (Lap - Belt) in use.

Fuel Leakage: none

General Observations: Impact Point 650 mm from Front Axle. Side Impactor
Bumper impacted under the Door-Beams. Buckling on the Area of the B-Pillar.
B-Pillar damaged and bended on the Level of the Window-Sill. Left Front-Door
separated from lower Sill. Knee-Bolster supported the A-Pillar. A-Pillar
turned.

Driver Dummy - no damage

Left Rear Dummy - Rib Leather Attachment Plate broke though on the left
Side.

Left Rear Wheel of the Side Impactor separated after 200 ms.

TEST NO. 6TEST DATE 02.18.1982TEST CONFIGURATION:

Target Vehicle VW Rabbit 4-Door Speed 0 [mph]
 Bullet Vehicle 19⁰ Crabbed Side Impactor Speed 40.03 [mph]
 Impact Location behind Front Axle 650 [mm] Angle 60 [deg]

PASSENGER: DRIVERHEAD RESPONSE:

Peak a_R 125.3 [g] ≥ 3 ms ≈ 88 g Impacted Objekt none
 HIC 599 Time T1 41 [ms] T2 91 [ms]

CHEST RESPONSE:

Location	[g]	≥ 3 ms [g]	SI	Δv_y [mph]	Imp. Time [ms]	Time a-max [ms]
Upper Sternum (X)	55.1	41.5	--	--	32	73
Lower Sternum (X)	105.0	65.0	--	--	30	46
LUR (Y)	137.2	106.5	--	26.8	34	42
LLR (Y)	148.2	95.0	--	28.2	30	43
RUR (Y)	197.0	117.0	--	17.3	39	51
RLR (Y)	133.0	119.5	--	26.3	35	47

CHEST DEFLECTION: Damper - DY 48 [mm]VERTEBRAL COLUMN RESPONSE:

Location	Pk a_y [g]	Pk a_R [g]	≥ 3 ms [g]	SI	Δv_y [mph]	Imp. Time [ms]	Time a-max [ms]
Upper Thorax (T1)	155.1	158.8	137.0	1595	28.7	30	48
Lower Thorax (T12)	127.7	130.5	102.0	1161	29.1	29	45

PELVIS RESPONSE:

Pk a_R [g] 143.6 SI 1807 ≥ 3 ms [g] 110.3 Impact Time [ms] 25

Table 10: Side Impact Dummy Test Response Summary

TEST NO. 6TEST DATE 02.18.1982TEST CONFIGURATION:

Target Vehicle VW Rabbit 4-Door Speed 0 [mph]
 Bullet Vehicle 19⁰ Crabbed Side Impactor Speed 40.03 [mph]
 Impact Location behind Front Axle 650 [mm] Angle 60 [deg]

PASSENGER: L E F T R E A RHEAD RESPONSE:Peak a_R 116.5 [g]Impacted Objekt C-Pillar and Roof-LineHIC 1466Time T 1 78 [ms] T2 93 [ms]CHEST RESPONSE:

Location	[g]	$\geq 3ms$ [g]	SI	Δv_y [mph]	Imp. Time [ms]	Time a-max [ms]
Upper Sternum (X)	93.1	71	--	--	67	80
Lower Sternum (X)	103.3	88	--	--	67	78
LUR (Y)	313.1	236	--	56.5	64	70
LLR (Y)	413.4	315	--	52.6	63.5	68
RUR (Y)	246.0	89	--	16.4	63.5	68.5
RLR (Y)	342.2	220	--	18.9	64.5	68.5

CHEST DEFLECTION: Damper - DY 39 [mm]VERTEBRAL COLUMN RESPONSE:

Location	Pk a_y [g]	Pk a_R [g]	$\geq 3ms$ [g]	SI	Δv_y [mph]	Imp. Time [ms]	Time a-max [ms]
Upper Thorax (T1)	87.9	90.2	84.5	894	23.8	60	88
Lower Thorax (T12)	97.1	102.6	74.0	678	23.9	61	74.5

PELVIS RESPONSE:Pk a_R [g] 171.5 SI 1829 $\geq 3ms$ [g] 130.1 Impact Time [ms] 45

Table 11: Side Impact Dummy Test Response Summary

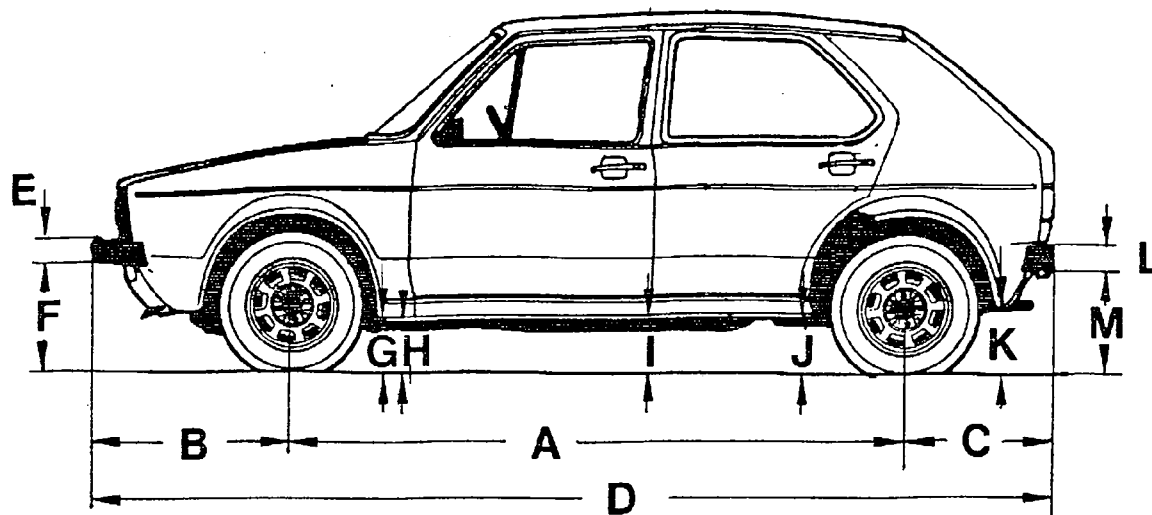
TEST NO. 6 TEST DATE 02.18.1982

COMPUTED COEFFICIENTS:

Location of Accelerometer	AIS B-Param.	AIS Av.Pow.	PAP TB / TE (ms)	B	Q	V ₁₀₅₀	V ₁₀₉₀	RVS
Left Upper Rib LUR	4.04	3.98	3234 38.8/ 46.9	7.1969	1016.4	4.37	12.50	2.8571
Left Lower Rib LLR	4.05	4.27	3149 38.1/ 47.5	7.2008	1183.7	5.00	13.75	2.7500
Upper Thorax T 1 Y	4.44	5.47	5449 43.1/ 54.4	7.4634	1303.4	4.37	9.38	2.1429
Lower Thorax T 12 Y	4.11	4.52	3823 35.6/ 53.1	7.2415	1333.4	8.12	15.00	1.8462

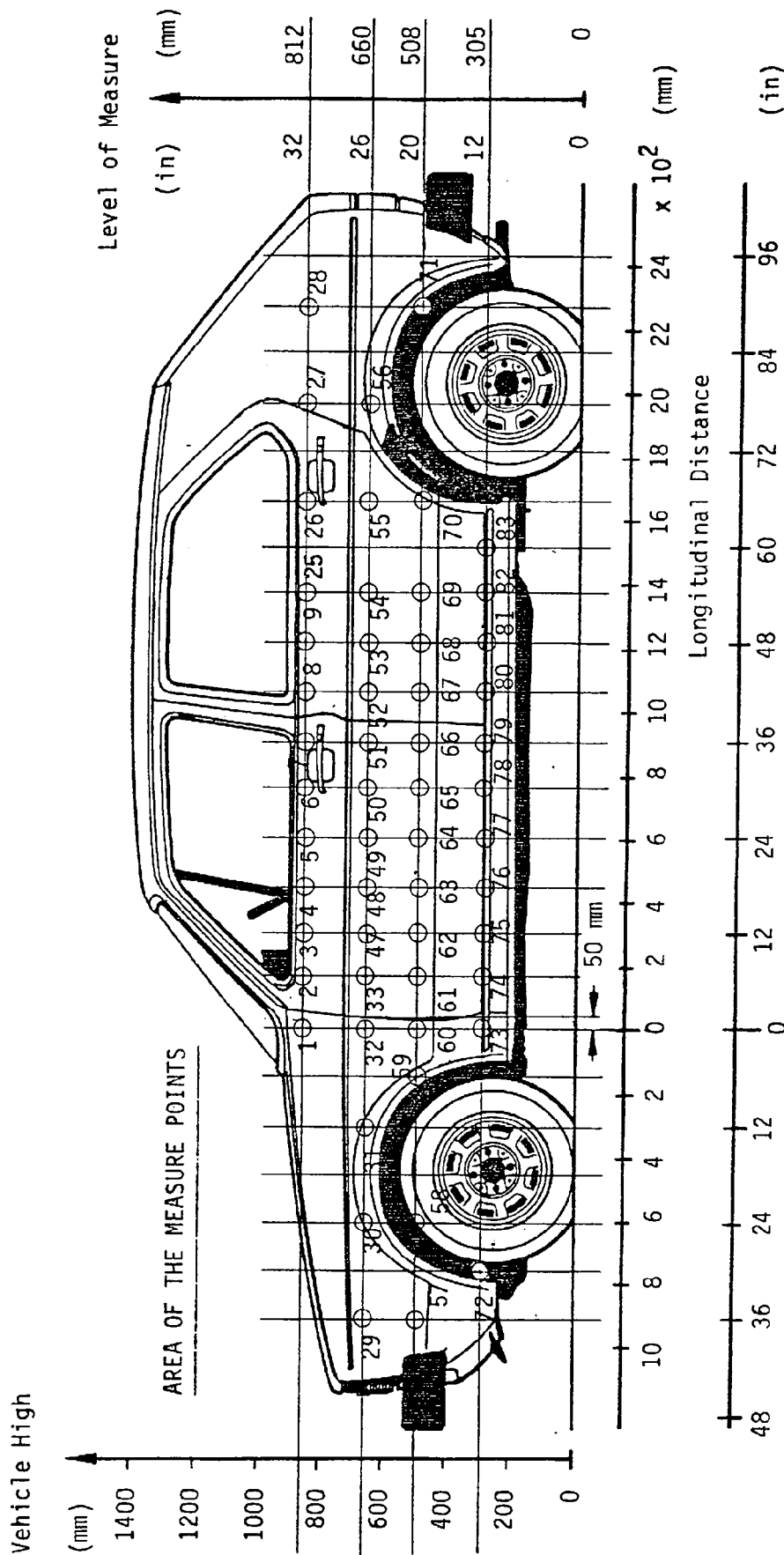
TABLE 12 : AIS AND COEFFICIENTS

TEST NO : 6



	PRE - TEST	POST - TEST	Δ CHANGE
A	2400	2350	-50
B	820	820	0
C	690	645	-45
D	3930	3835	-95
E	125	125	0
F	370	415	45
G	162	202	40
H	160	205	45
I	150	192	42
J	150	190	40
K	185	195	10
L	125	125	0
M	290	300	10

Table 13: Pre - and Post - Test Measurements



TEST NO : 6

VEHICLE NO : 705 114

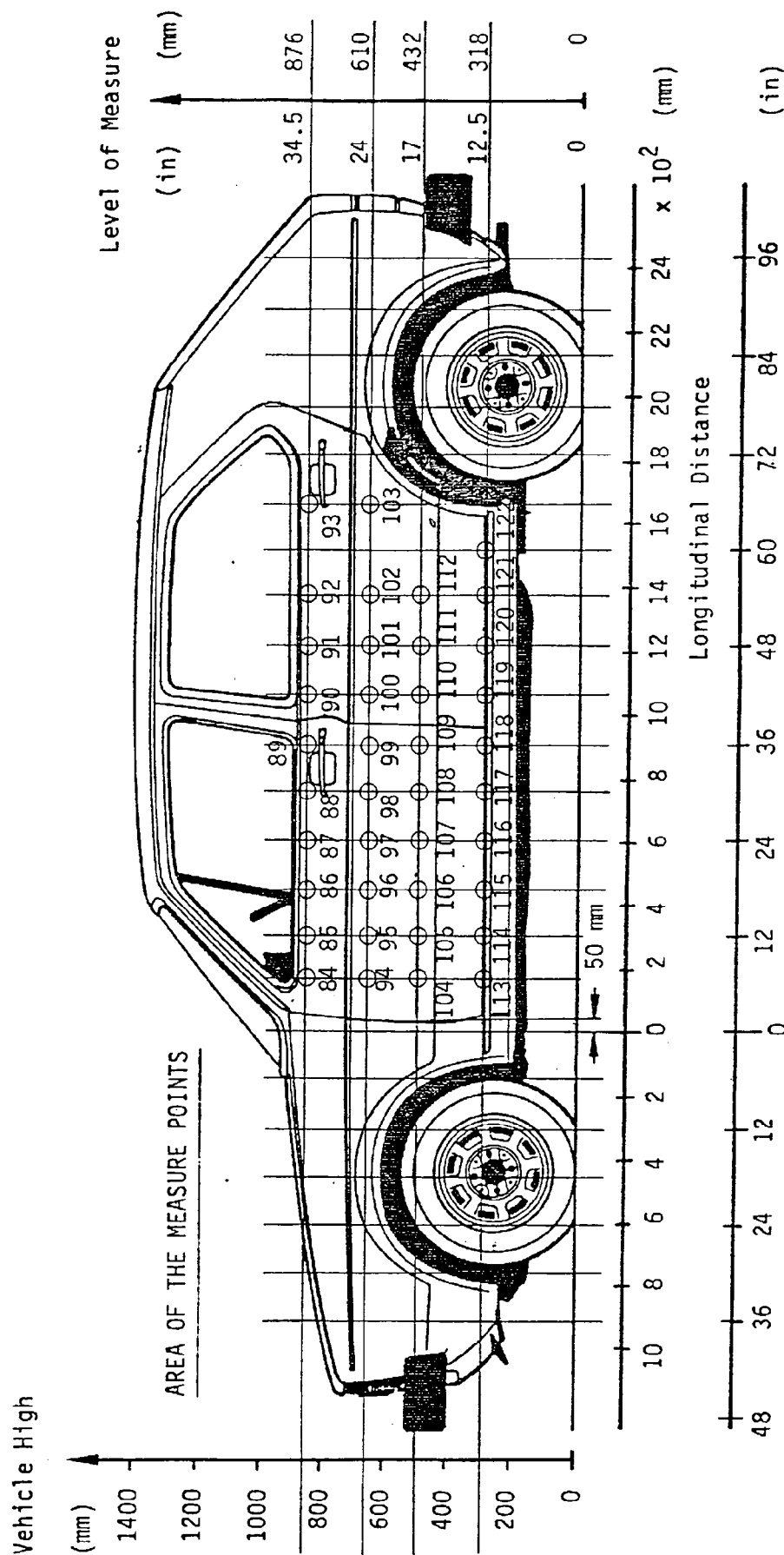
Figure 10: Vehicle Measurement Side (Exterior)

Table 14 :Exterior Static Crush for VW Rabbit

TEST NUMBER: 6

Location	Height [mm] *	Zero Distance Located at Door [mm]												(Rear)							
		(Front)																			
		762	610	457	305	152	0	152	305	457	610	762	914	1067	1220	1372	1524	1676	1829	1981	2286
Window-Sill	812	/	/	/	/	52	8	/	/	/	/	367	377	373	300	232	/	96	/	6	+34
Bullet Ve- hicle Hood	660	+20	/	+7	4	92	7	/				373	379	369	318	248	/	101	/	33	/
Mid-Door	508	+13	/	+12	/	103	8	10	/			426	422	381	329	270	/	156	/	/	+16
Rocker-Sill	305	/	+23	/	/	84	10	/	/			210	237	240	164	97	53	/	/	/	/

* All heights measured above ground level.



TEST NO : 6

VEHICLE NO : 705 114

Figure 11: Vehicle Measurement Side (Interior)

Table 15: Interior Static Intrusion for VW - Rabbit

TEST NUMBER: 6

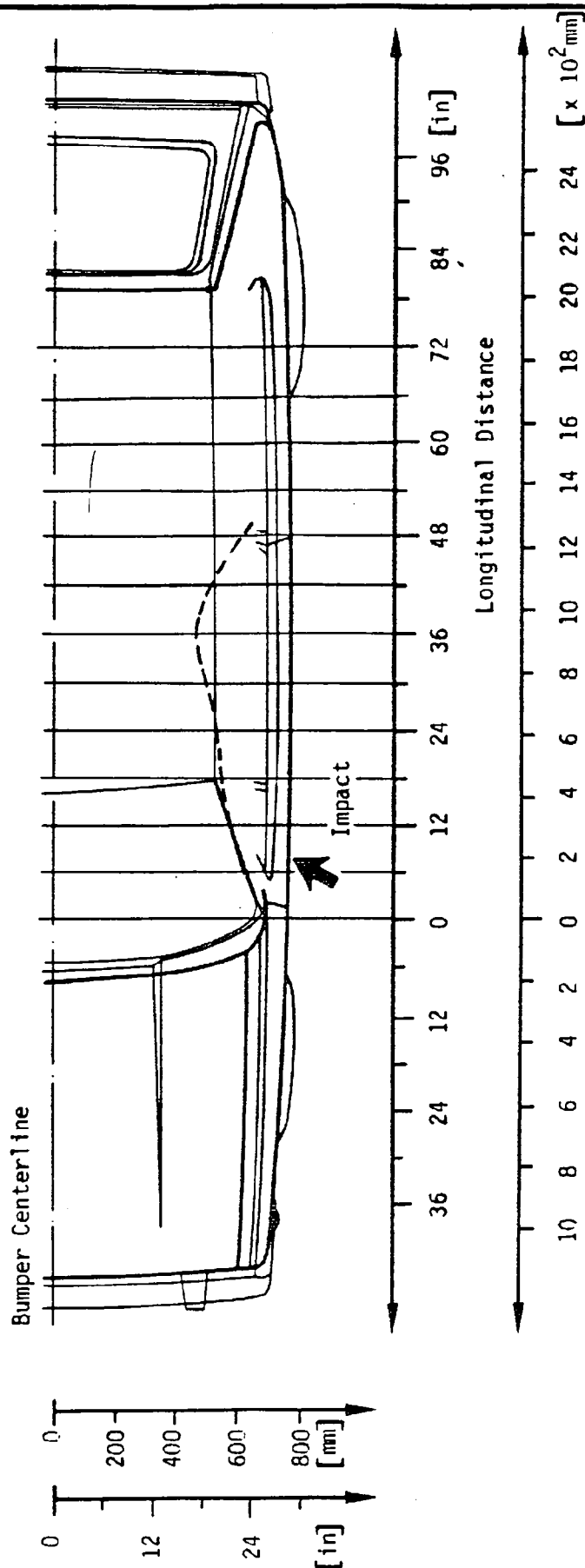
Zero Distance Starting at Door [mm]

Location	Height [mm] *	0	152	305	457	610	762	914	1067	1220	1372	1524	1676
Windowsill Level	876	/	67	131	191	253	302	346	375	289	209	/	58
Mid-door Level	610	/	87	177	245	298	354	385	337	274	201	/	82
Bullet Vehicle Bumper Level	432	/	104	188	264	291	314	313	279	248	/	/	/
Doorsill Level	318	/	61	111	134	165	205	225	190	59	/	/	/

* Heights measured above ground level.

Pre Test : ———
 Post Test : - - - -

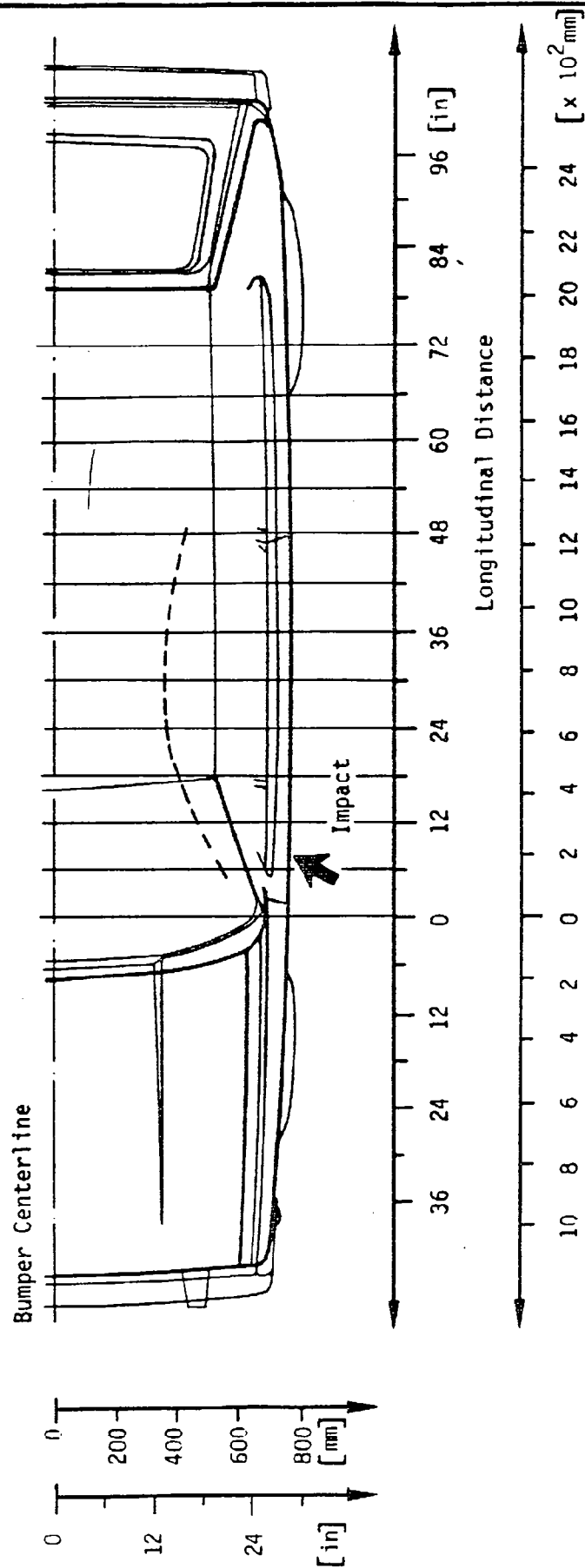
Test No:
 Test No:
 Test No:
 Test No:
 Test No:6



**Table 16: Pre - and Post - Test Interior Profiles at 318 mm above
 Ground Level**

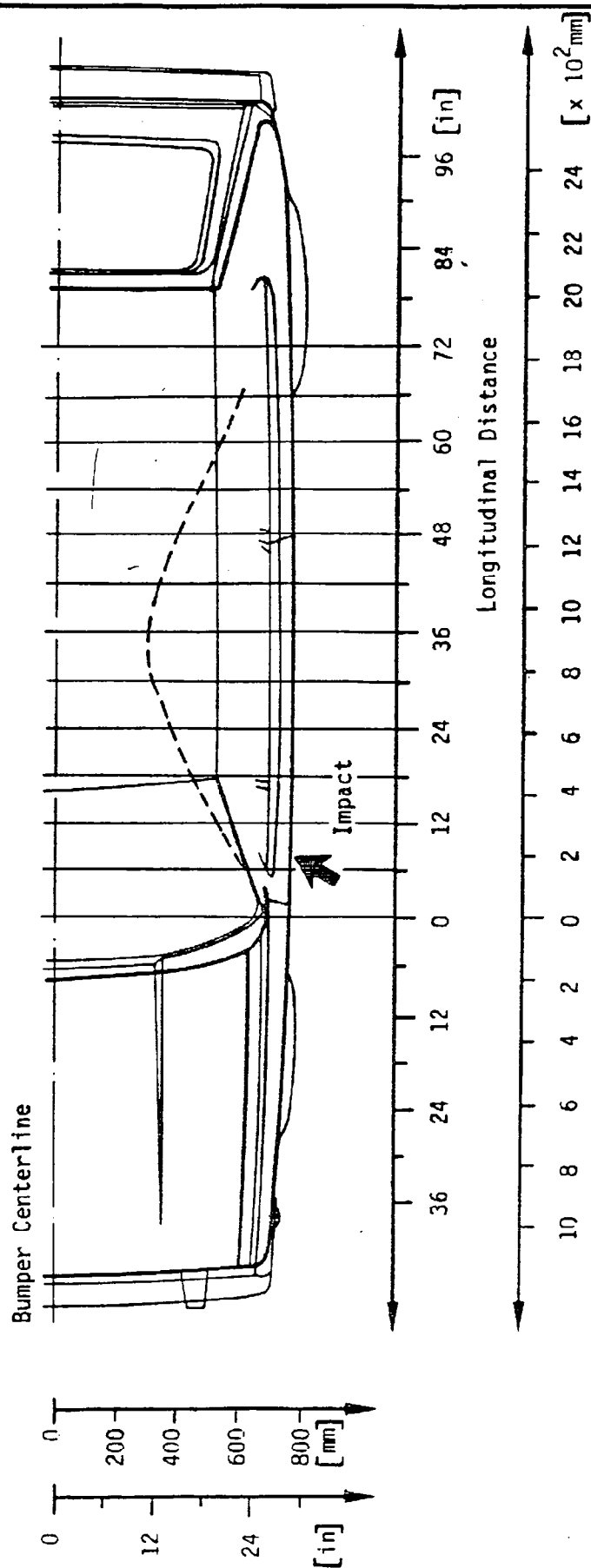
Pre Test : ———
 Post Test: - - - - -

Test No:
 Test No:
 Test No:
 Test No:
 Test No:6



**Table 17: Pre - and Post - Test Interior Profiles at 432 mm above
 Ground Level**

Pre Test : —————
 Post Test : - - - - -
 Test No: _____
 Test No: _____
 Test No: _____
 Test No: _____
 Test No: 6



**Table 18: Pre - and Post - Test Interior Profiles at 610 mm above
Ground Level**

Pre Test : _____

Post Test: - - - - -

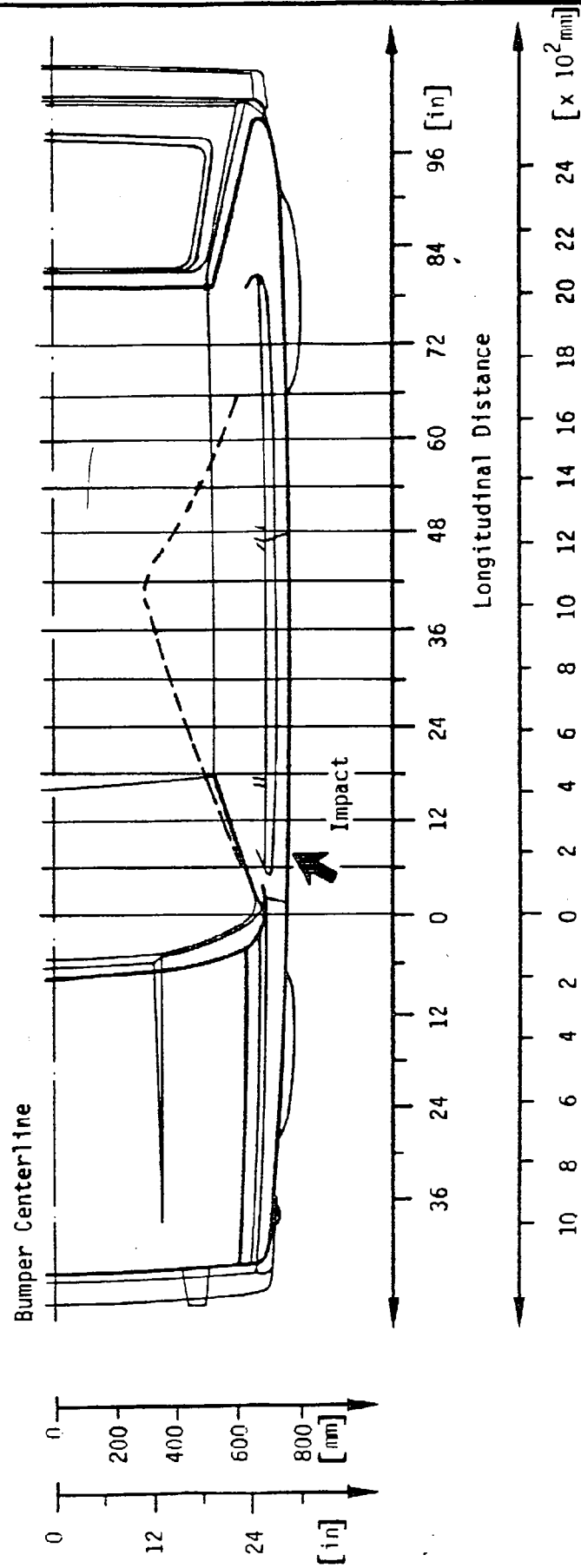
Test No:

Test No:

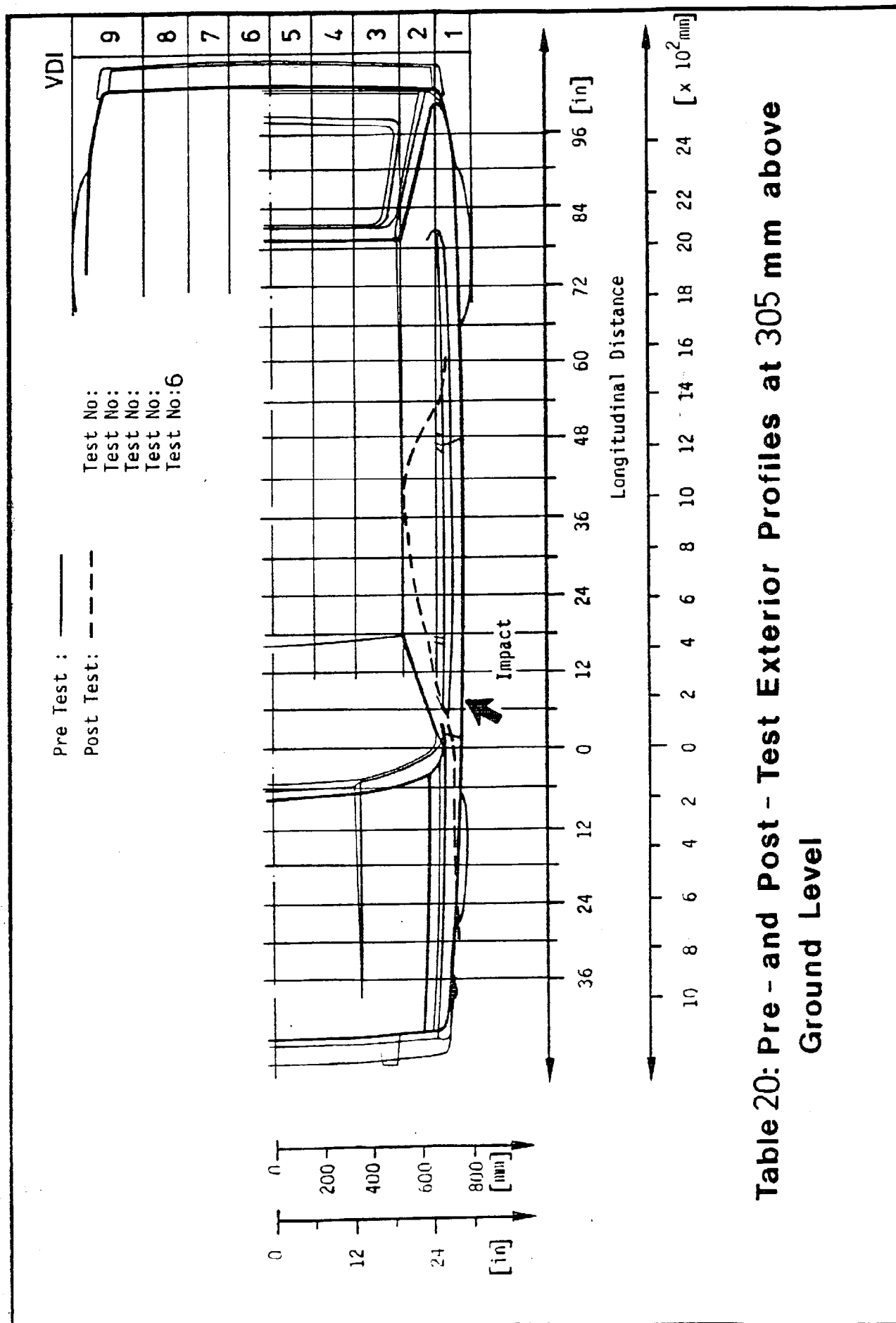
Test No:

Test No:

Test No: 6



**Table 19: Pre - and Post - Test Interior Profiles at 876 mm above
Ground Level**



**Table 20: Pre - and Post - Test Exterior Profiles at 305 mm above
Ground Level**

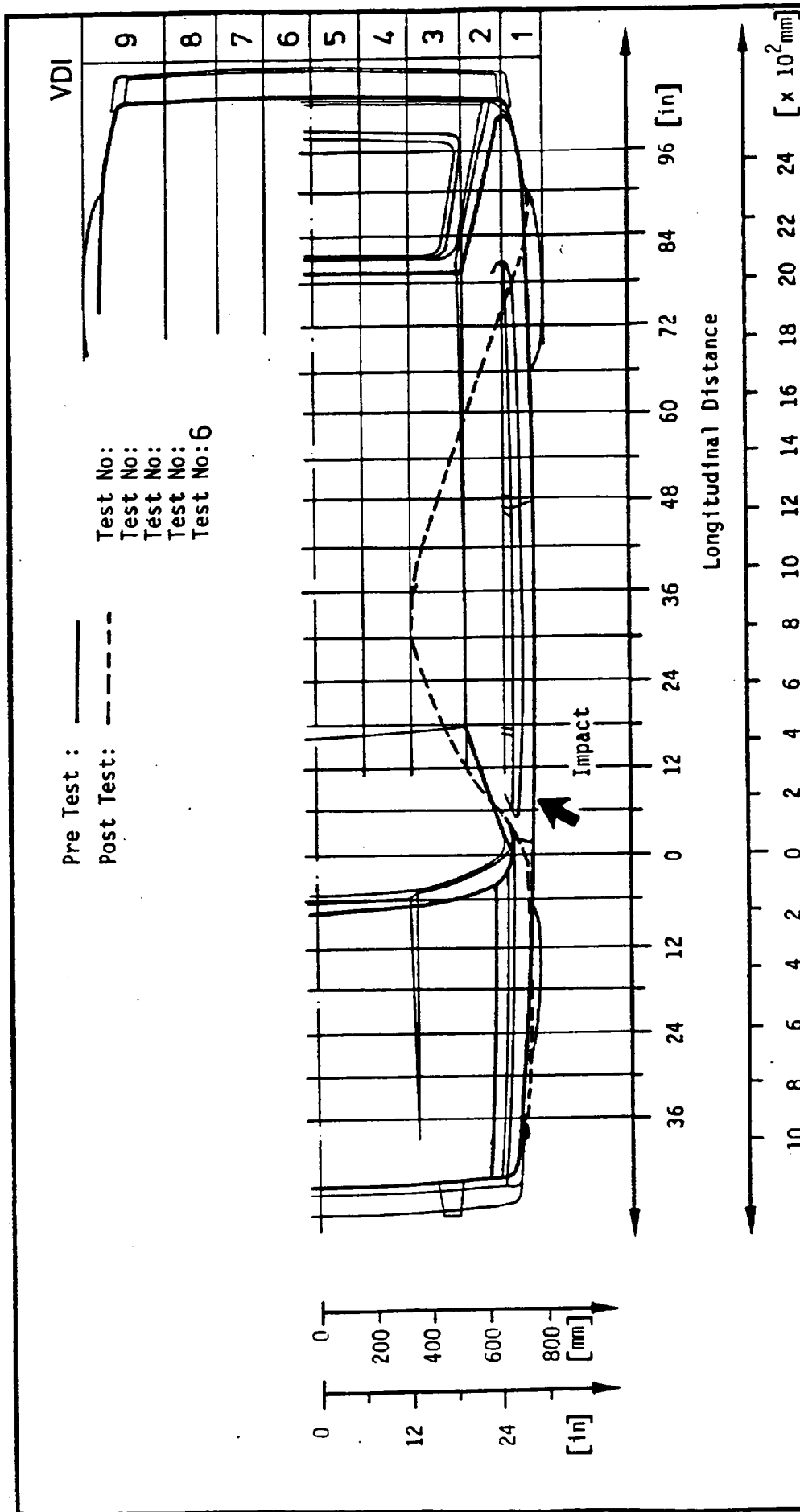


Table 21: Pre - and Post - Test Exterior Profiles at 508 mm above Ground Level

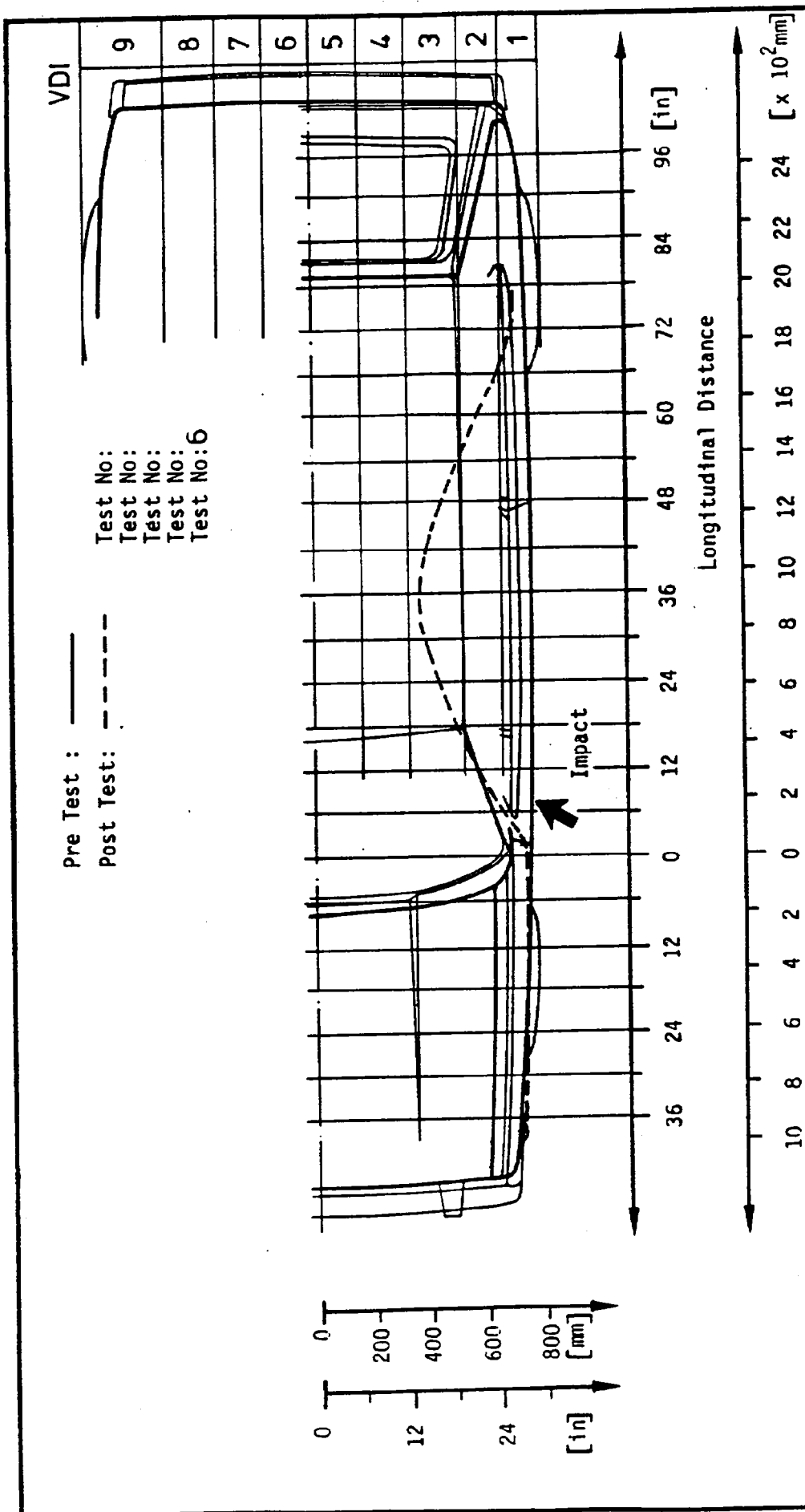
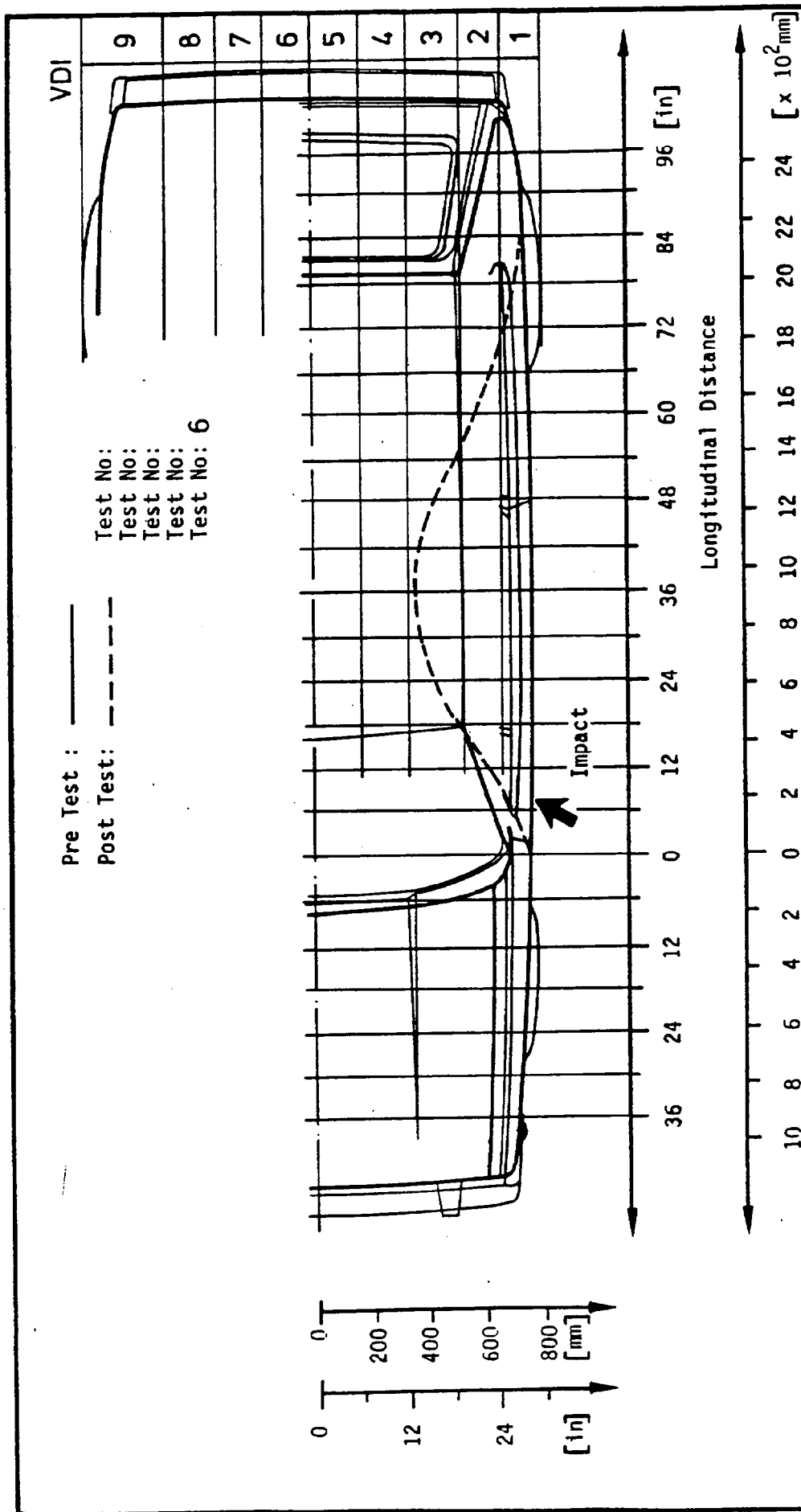


Table 22: Pre - and Post - Test Exterior Profiles at 660 mm above Ground Level



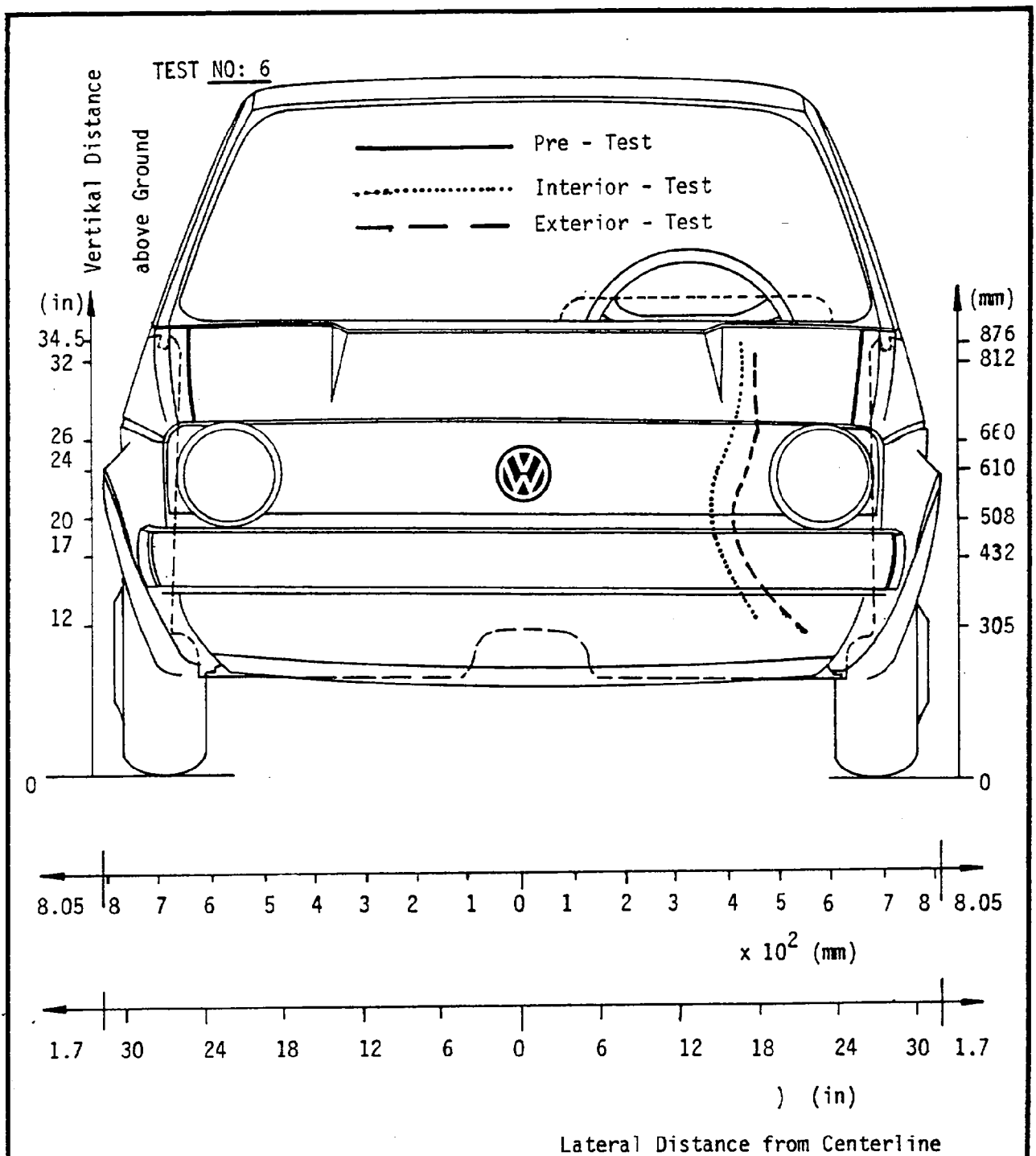


FIGURE 12 : EXTERIOR AND INTERIOR STATIC PROFILES AT THE
LONGITUDINAL DISTANCE 610 MM FROM DOOR

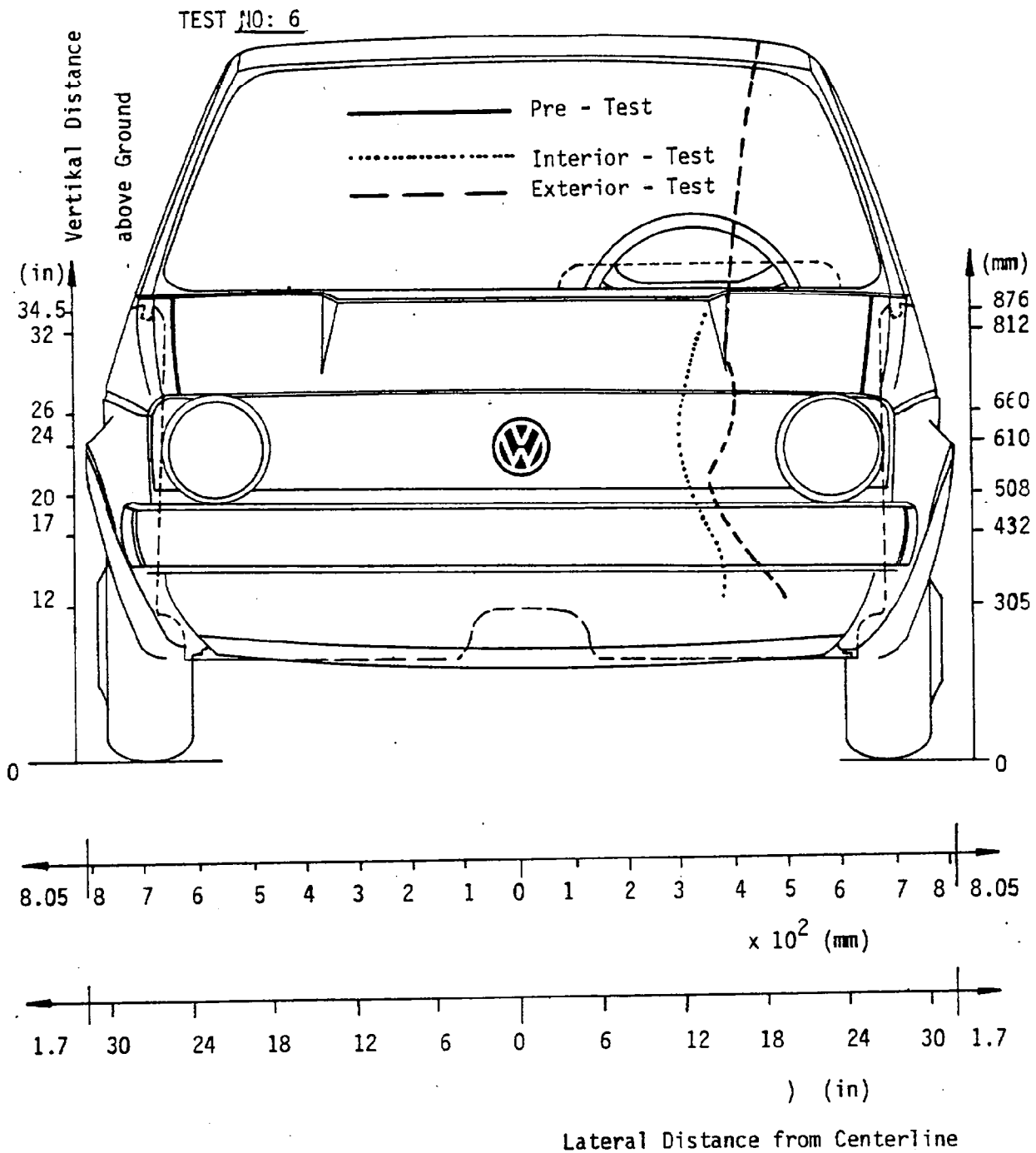


FIGURE 13 : EXTERIOR AND INTERIOR STATIC PROFILES AT THE
LONGITUDINAL DISTANCE 914 MM FROM DOOR

Table 24: Exterior Static Crush for Side Impactor

TEST NUMBER: 6

Location	Height at C _L *	Distance right of Center [mm]										Distance left of Center [mm] **						
		835	700	600	500	400	300	200	100	0	100	200	300	400	500	600	700	835
Top of Stack Level	813	0	0	0	0	0	0	4	7	8	6	6	4	9	14	22	62	150
Mid - Stack Level	554	0	0	0	0	2	1	1	9	5	8	10	15	22	35	55	60	157
Bumper Level	432	-40	-25	-13	-2	5	19	32	44	52	58	68	75	85	108	135	155	170

* Heights measured above ground level.

** Impact side.

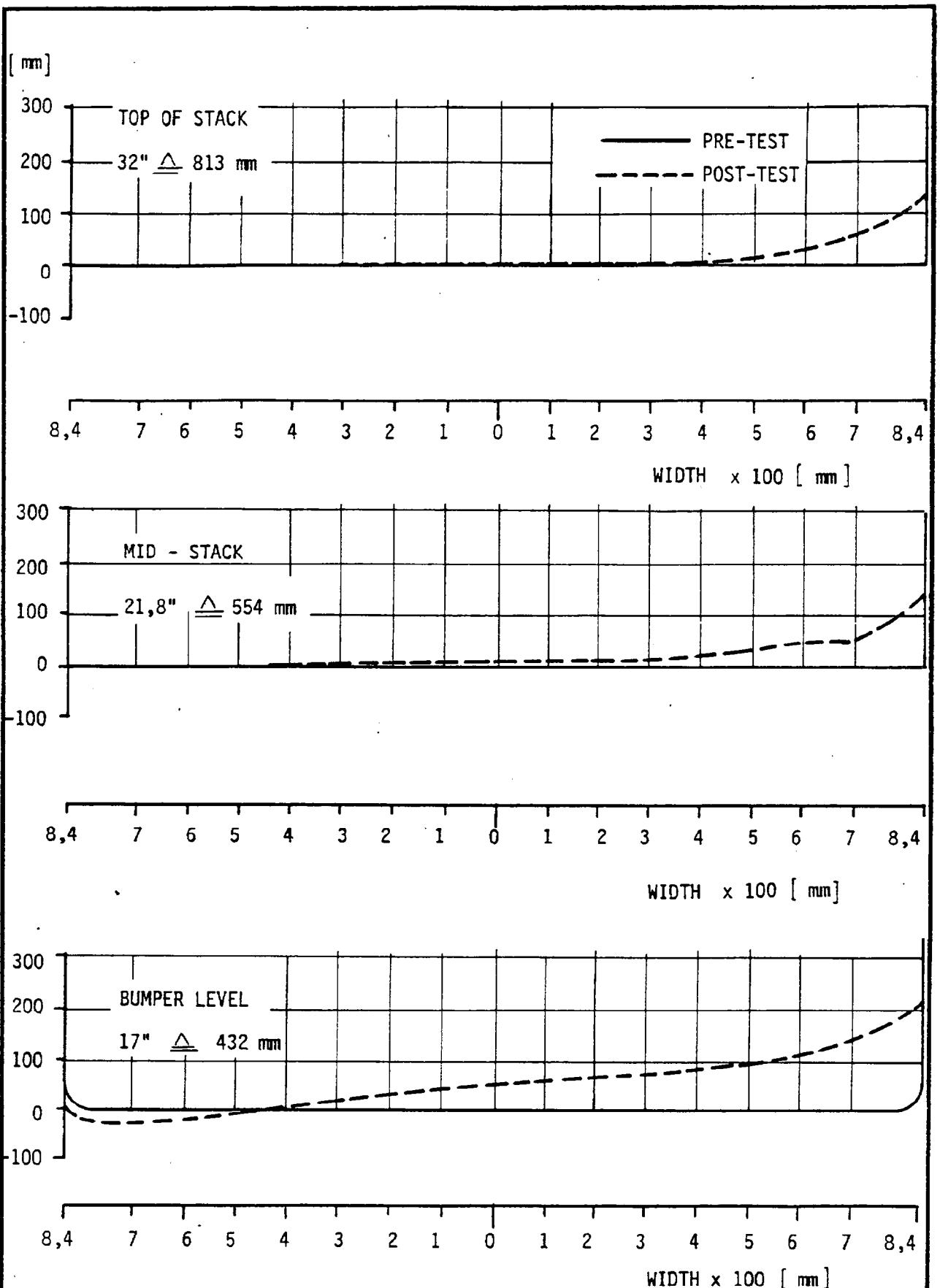


Table 25: Pre- and Post-Test Frontal Profiles for Side Impactor (Test 6)

A P P E N D I X A

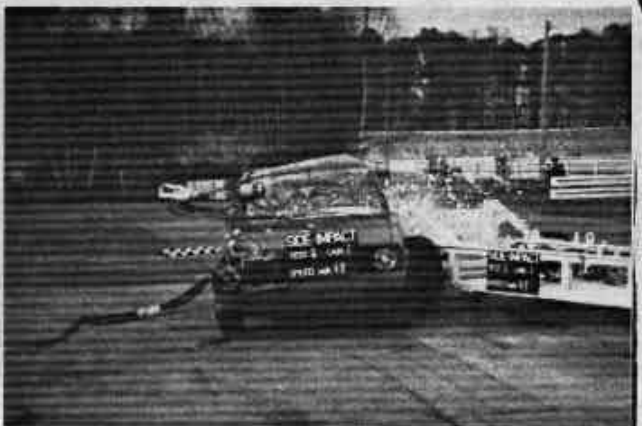
Photographs

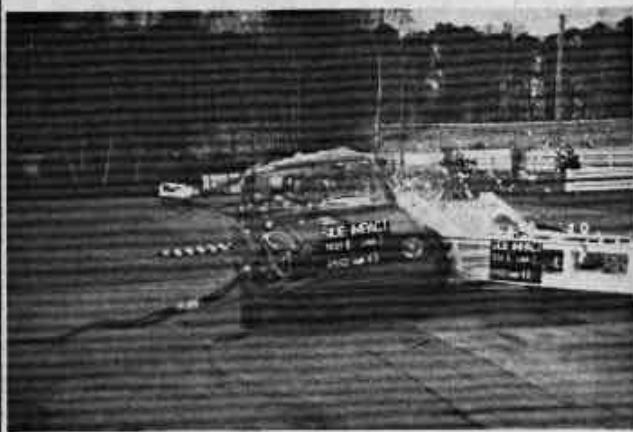
List of Illustrations

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A 4	VW Rabbit Left Side Post Test View	A - 5
A 5	VW Rabbit Left Side Post Test View (Rear-Side Direction)	A - 6
A 6	Crabbed Barrier Post Test View	A - 7

Figure A1 : Crash Sequence Figures

TEST 6 - 40 mph





A - 2A

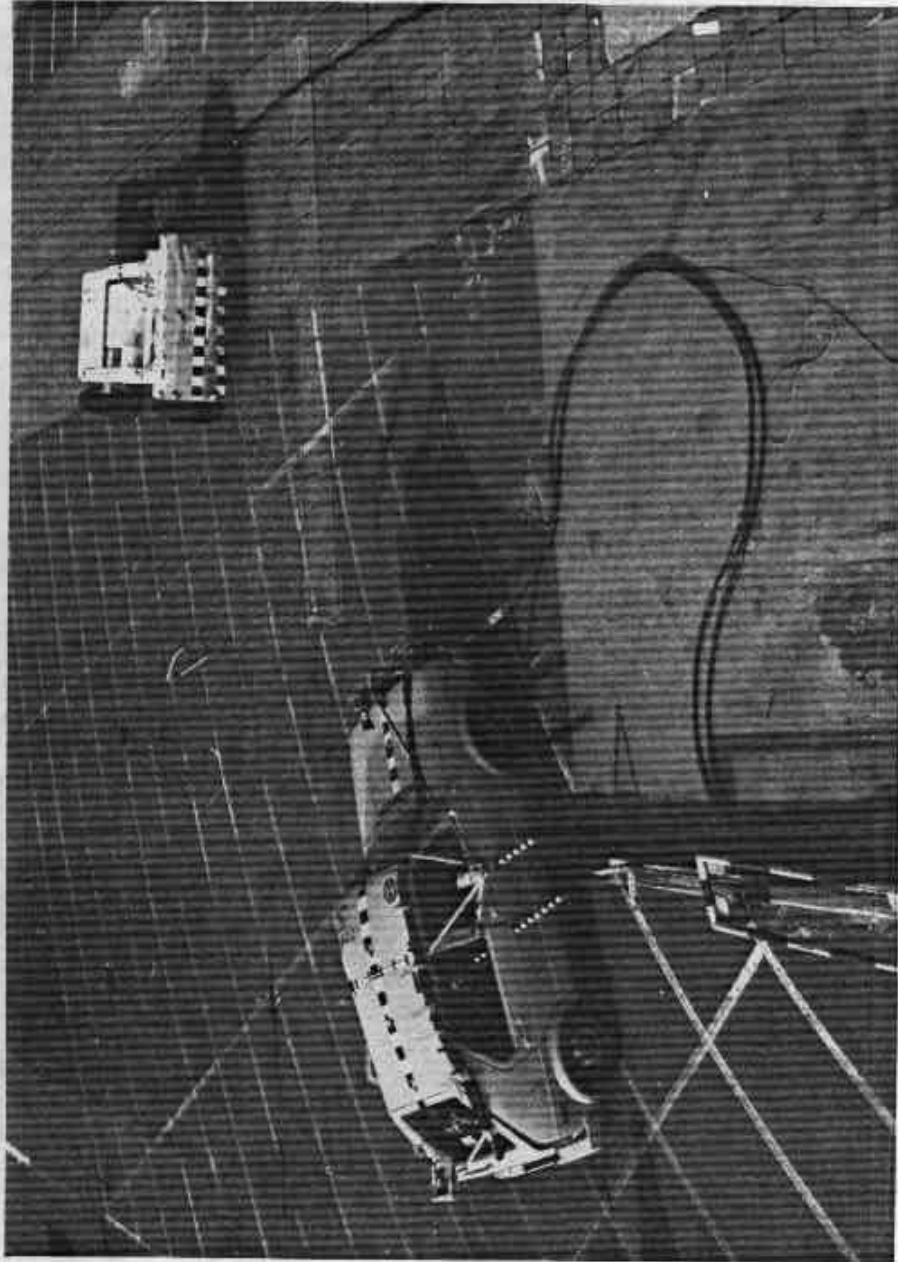


FIGURE A 2 : POST TEST 'POSITION'
CRABBED BARRIER AND VW RABBIT



FIGURE A 3 : VW RABBIT LEFT SIDE
POST TEST VIEW (FRONT-SIDE DIRECTION)

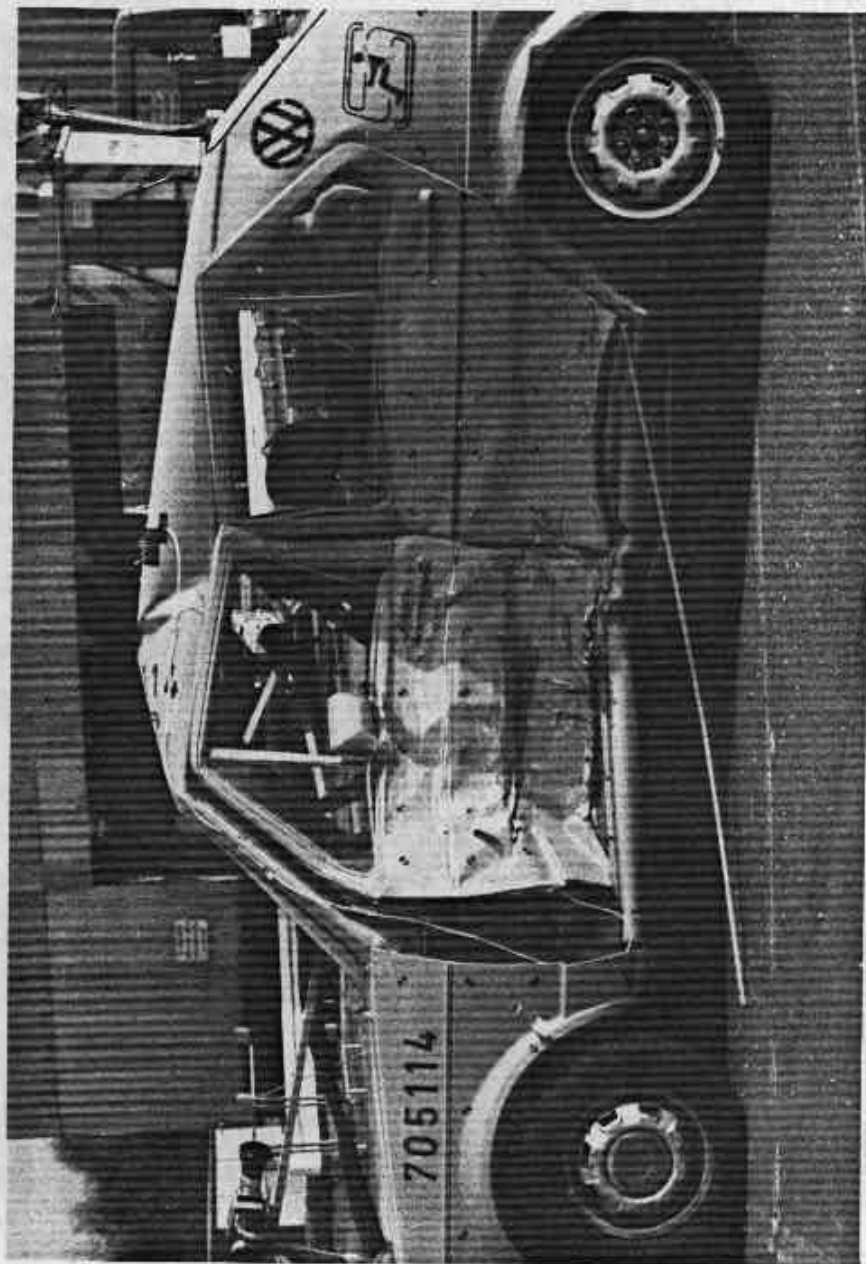


FIGURE A 4 : VW RABBIT LEFT SIDE
POST TEST VIEW



FIGURE A 5 : VW RABBIT LEFT SIDE
POST TEST VIEW (REAR-SIDE DIRECTION)



FIGURE A 6 : CRABBED BARRIER POST TEST VIEW

A P P E N D I X B

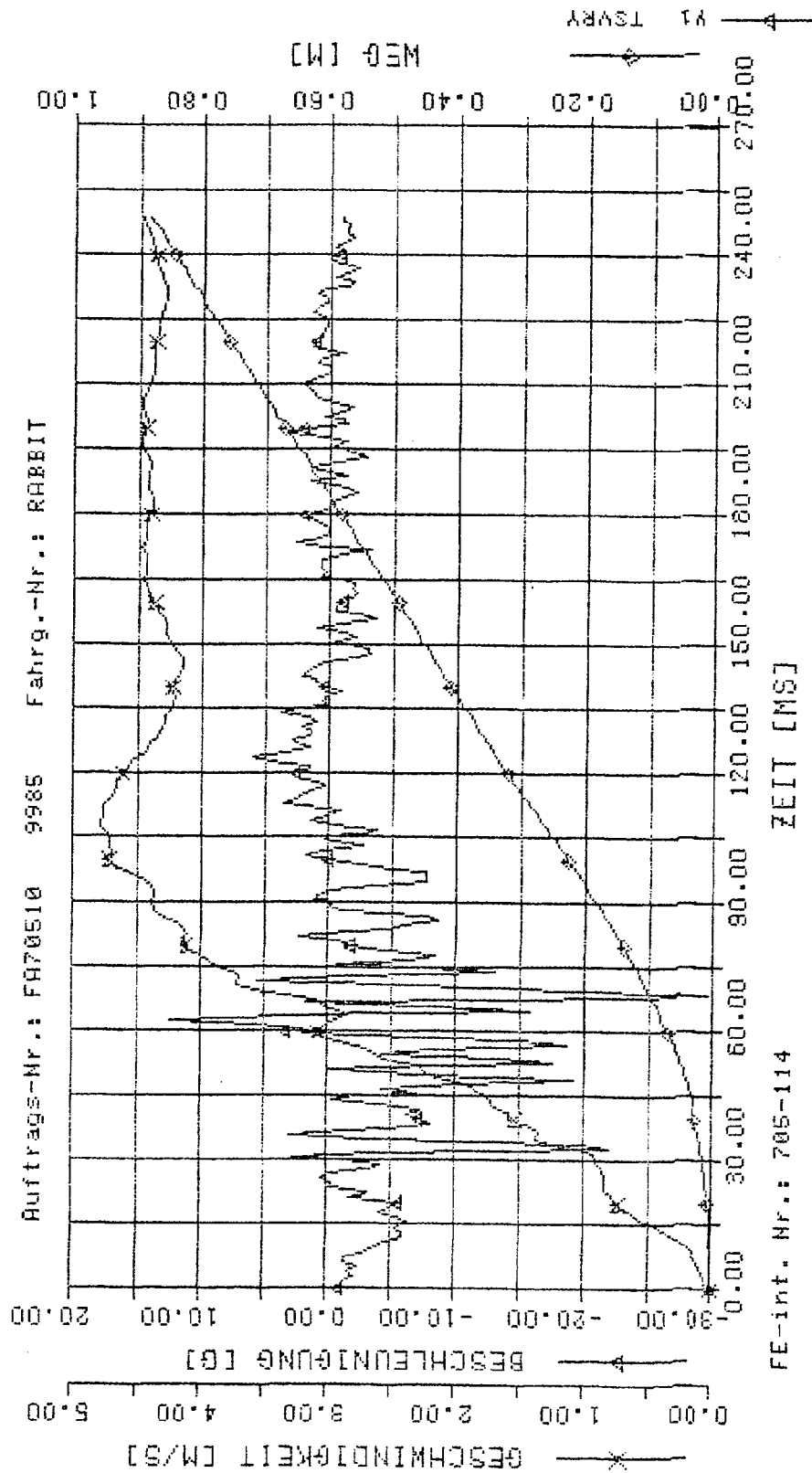
Vehicle and Dummy Test Response Acceleration/ - and Velocity/Time History

- B.1 Vehicle Test Response
 - B.1.1 Target Vehicle
 - B.1.2 Crabbed Barrier
- B.2 Dummy Test Response
 - B.2.1 Driver
 - B.2.2 Rear Passenger

B.1.1 Target Vehicle

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

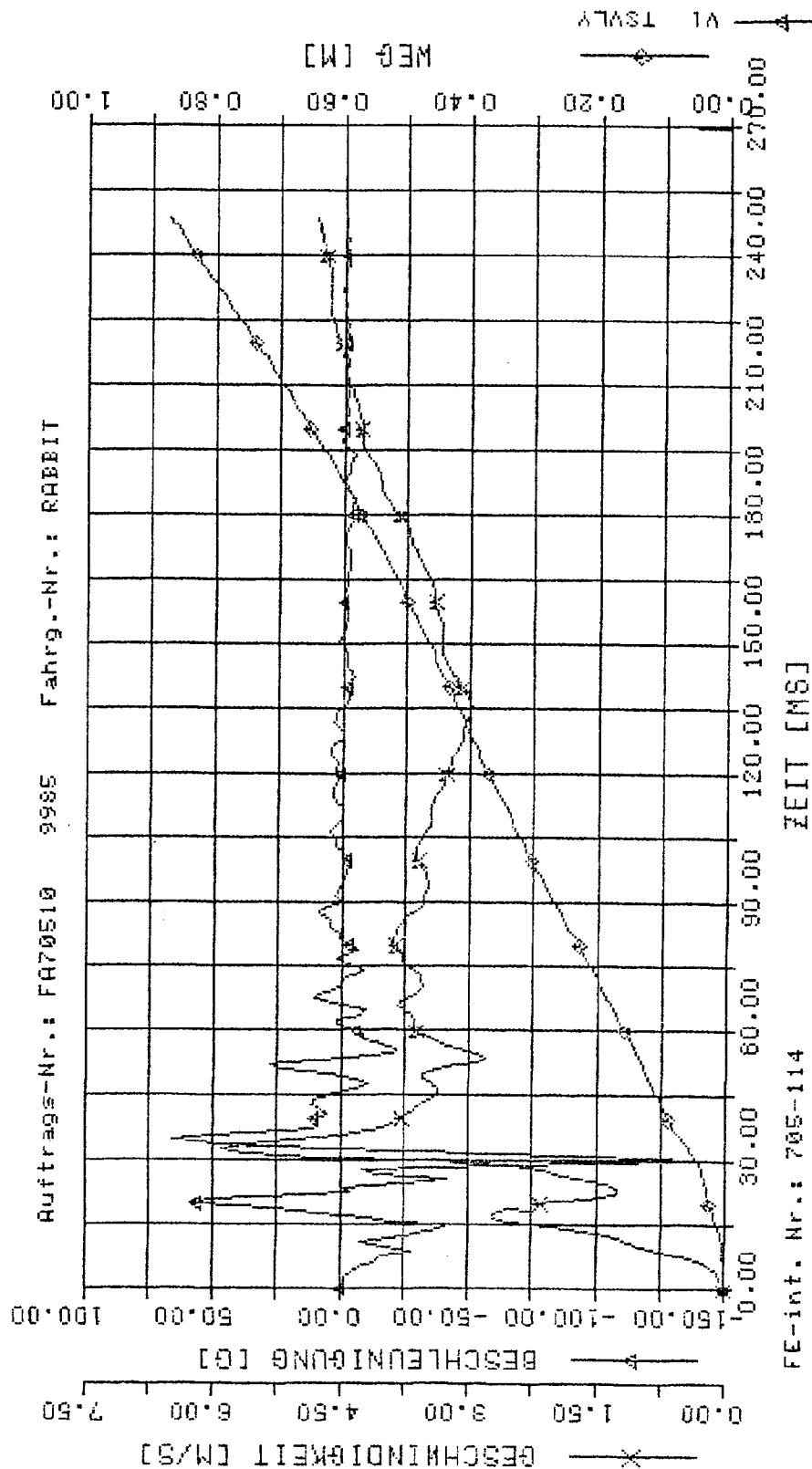
Mess-Stelle	UP	ber.	Groesse	Extremum	t	Extr.	3MS
TSURY	V1	BE	g	-29.733		69.00	0.00
TSURY	V1	GE	m/s	4.779		108.00	0.00
TSURY	V1	WE	m	.912		255.00	0.00



FE-int. Nr.: 705-114

- Kennwerte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

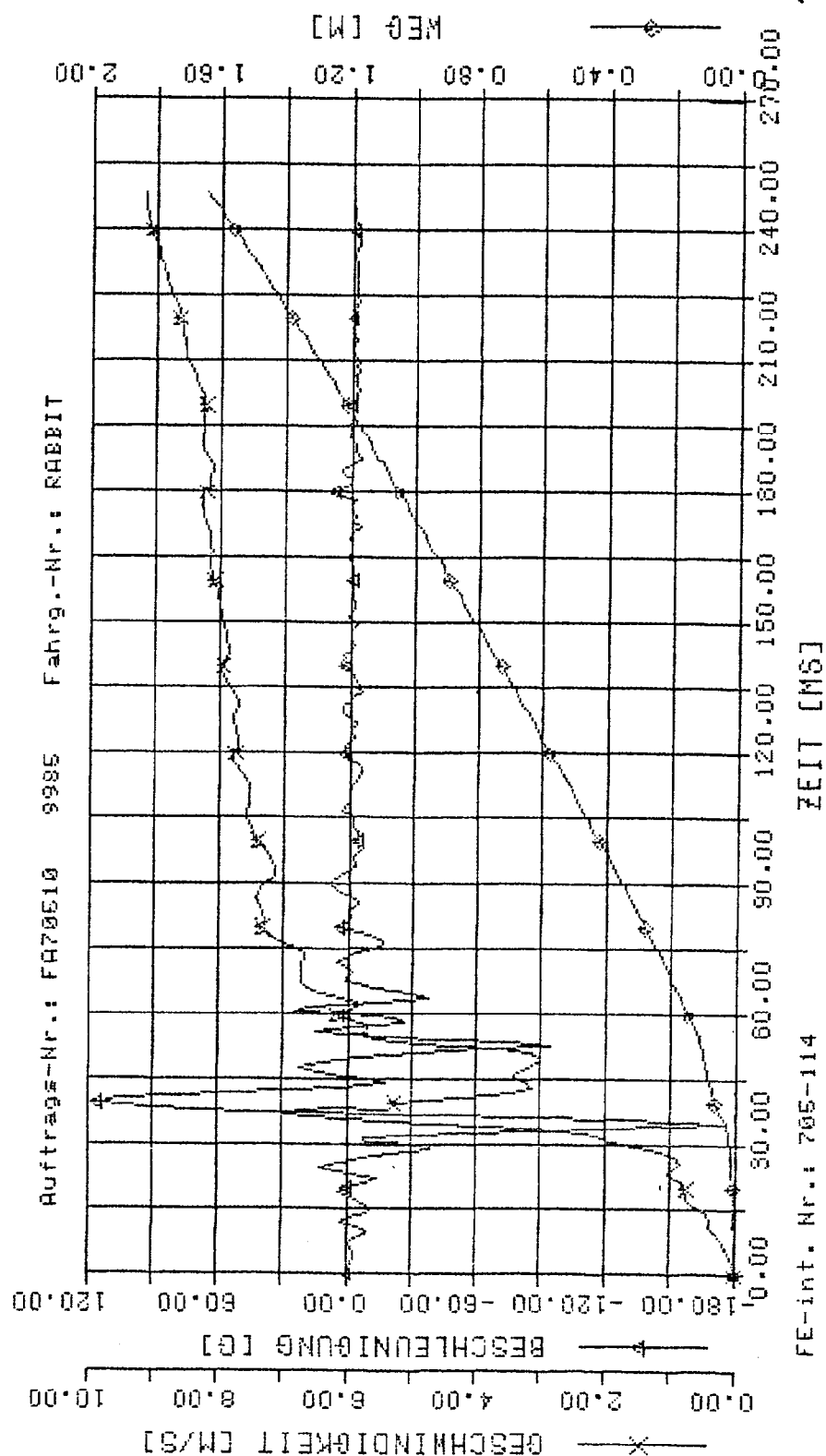
Mess-Stelle	UP	ber.	Groesse	Extremum	t	Extr.	3MS
TSVLY	V1	BE	g	-134.036	30.00	30.00	0.00
TSVLY	V1	GE	m/s	5.876	33.00	33.00	0.00
TSVLY	V1	WE	m	.904	255.00	255.00	0.00



FE-int. Nr.: 705-114

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

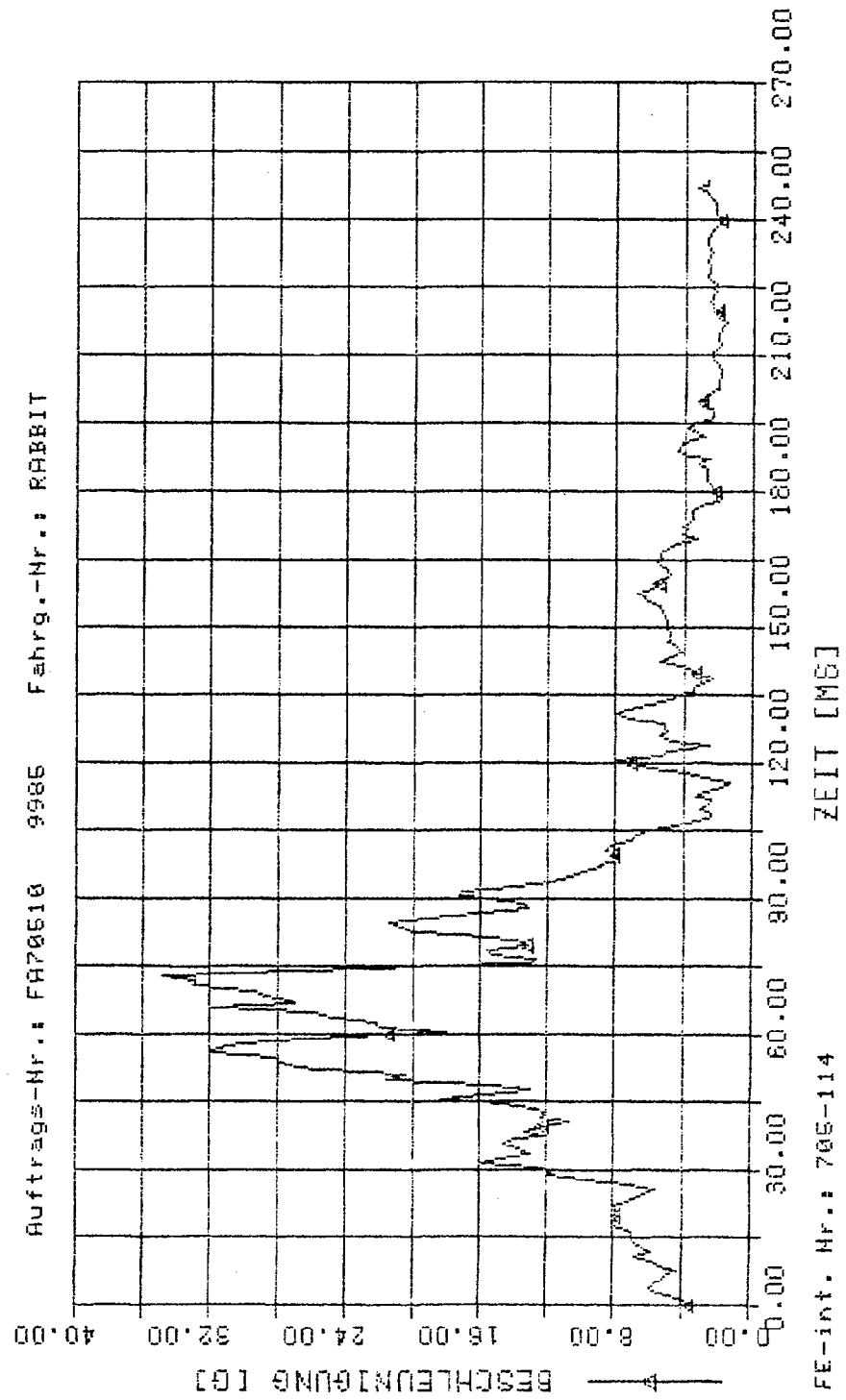
Mess-Stelle	UP	ber.	Grösse	Extremum	t	Extr.	3MS
SHHLY	V1	WE	g	-176.004	35.00	35.00	0.00
SHHLY	V1	GE	m/s	9.259	255.00	255.00	0.00
SHHLY	V1	WE	m	1.699	255.00	255.00	0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
KOBO	V1	BE	g	34.747	73.00
					31.93

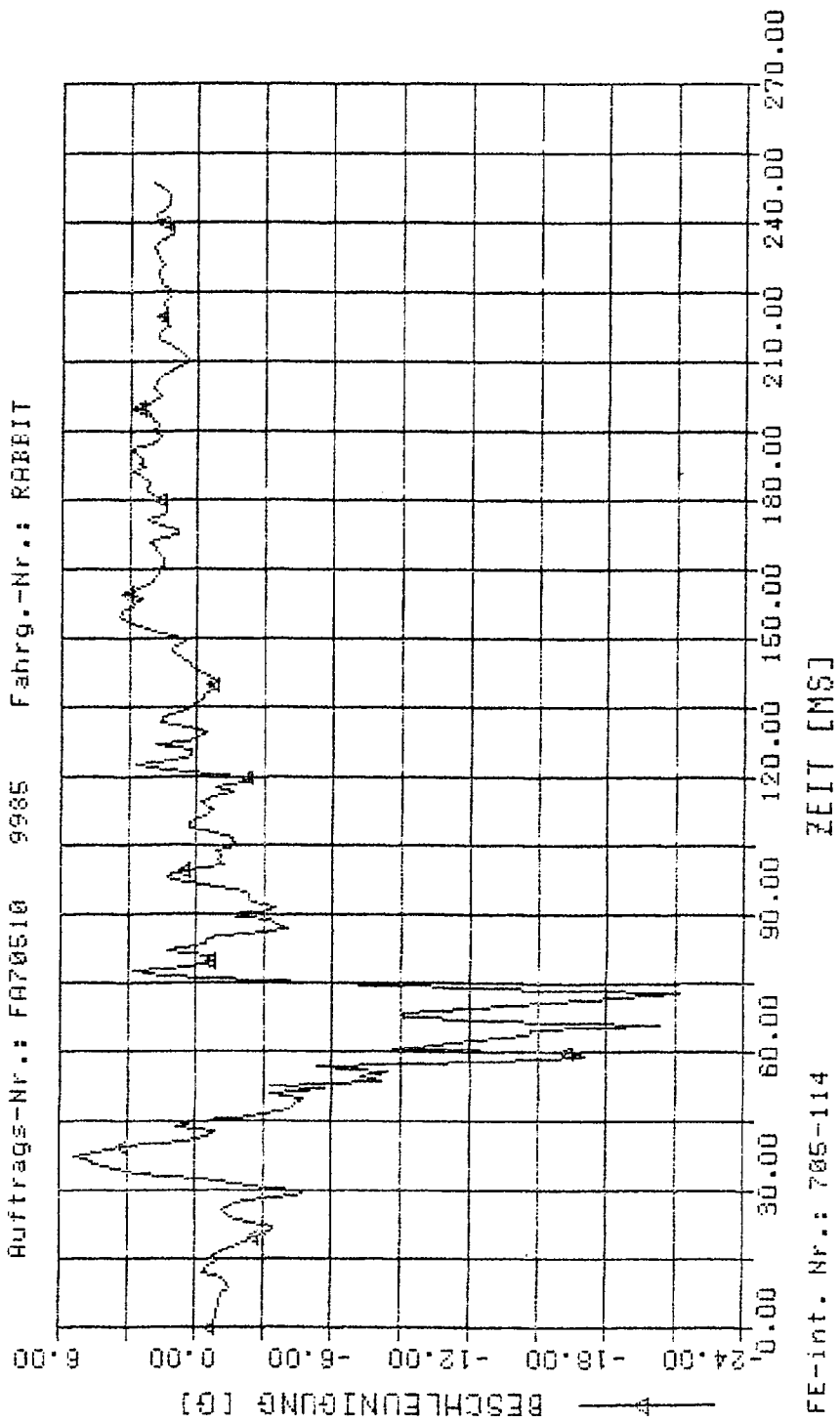
Auftrags-Nr.: FA70510 9985 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle UP ber. Extremum t 3MS
 Groesse -21.271 73.00 4.41
KOBX V1 BE g

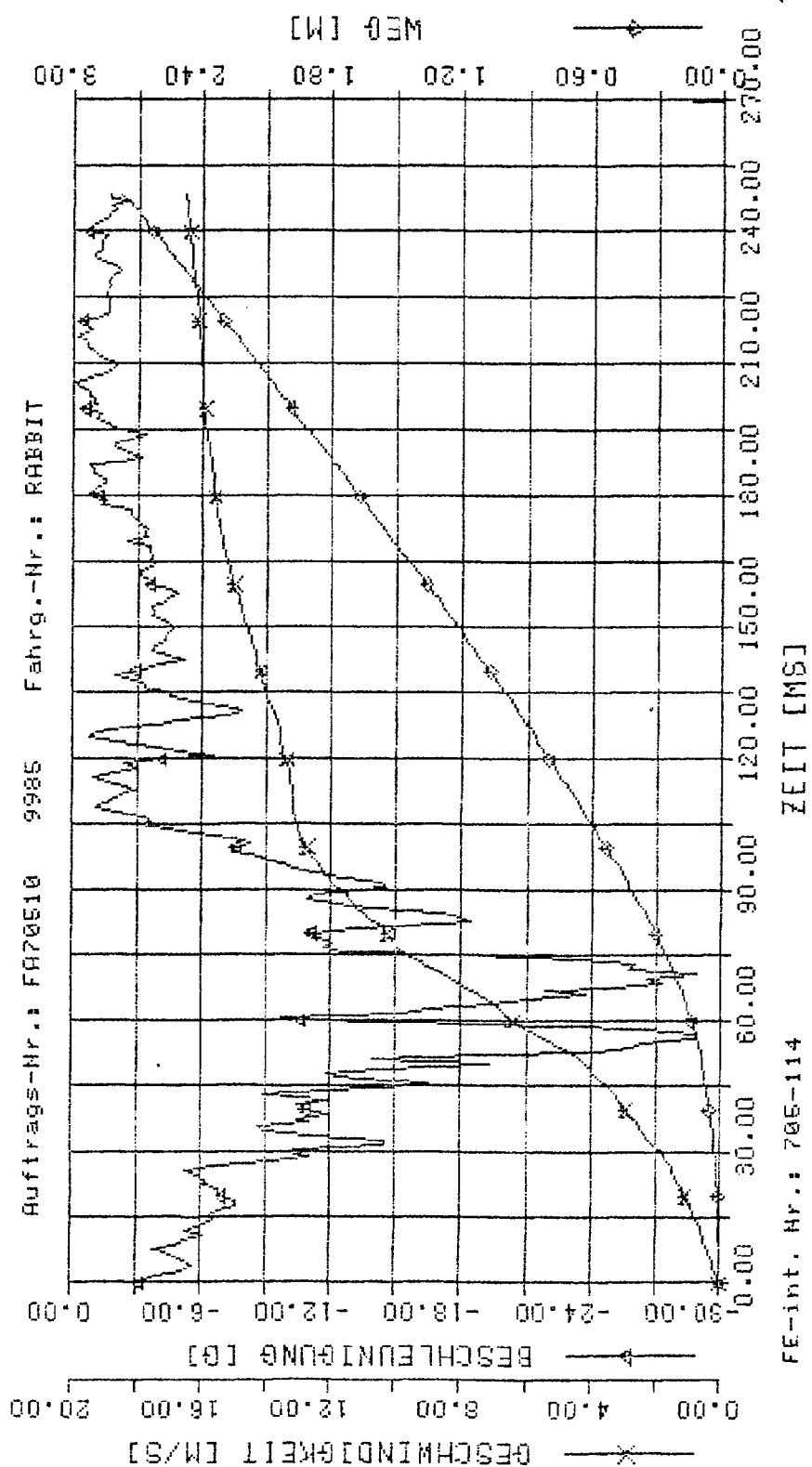
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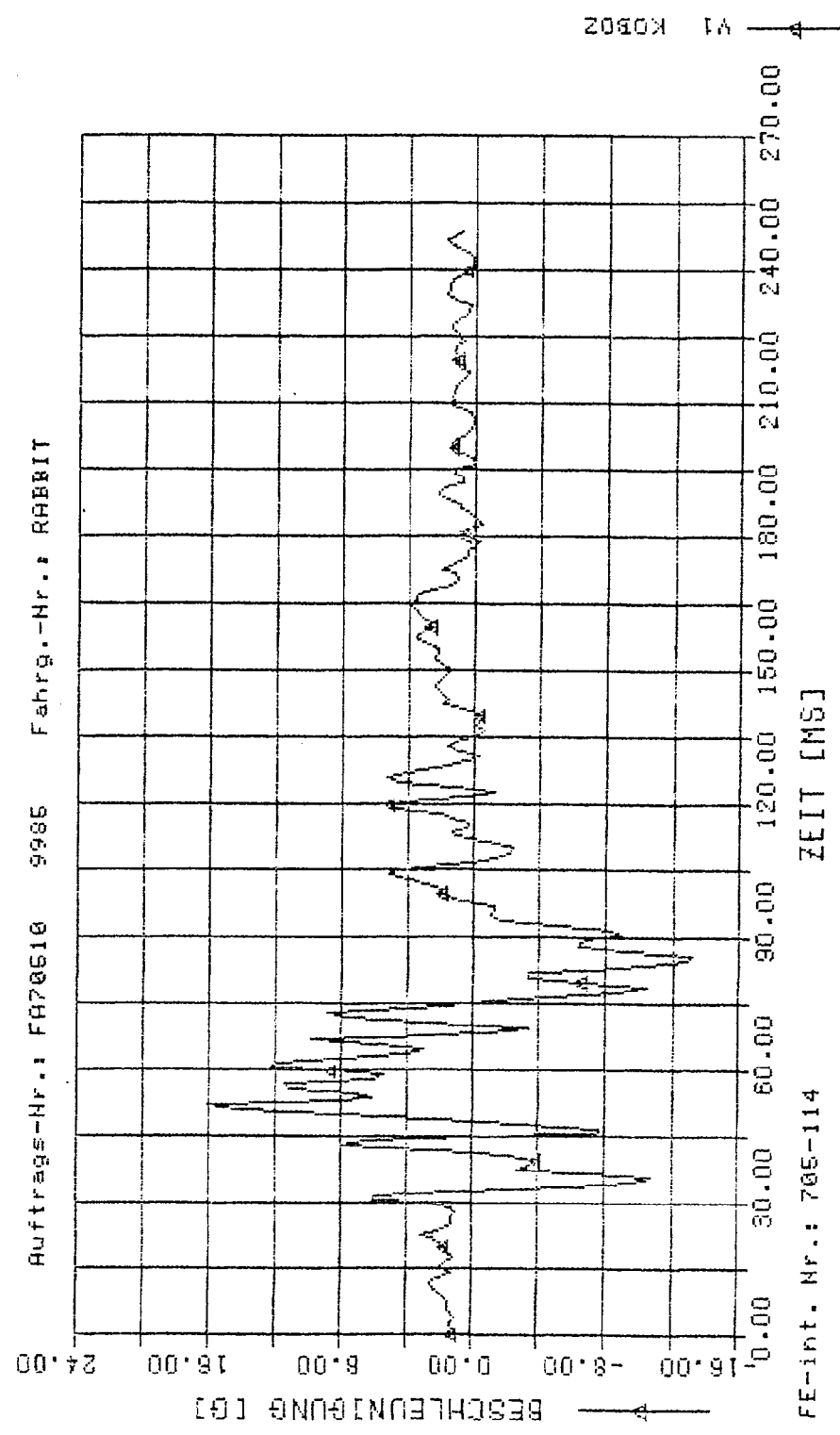
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Groesse	Extremum	t	Extr.	3MS
KOBY	V1	BE	g	-28.823	71.00	0.00	
KOBY	V1	GE	m/s	16.670	255.00	0.00	
KOBY	V1	WE	m	2.878	255.00	0.00	



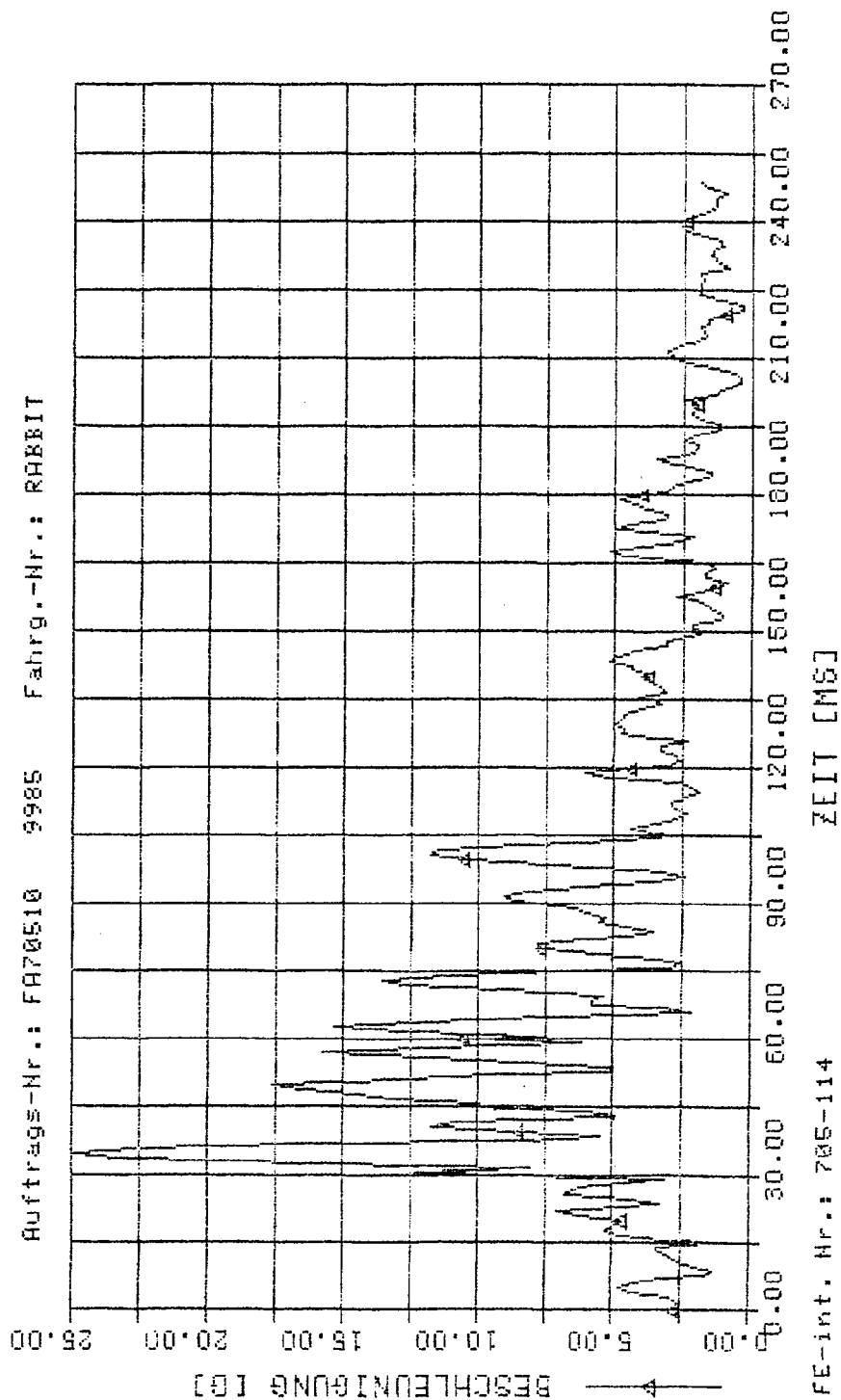
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Mess-Stelle UP ber. Extremum t 3MS
K080Z V1 BE g 16.040 52.00 11.03



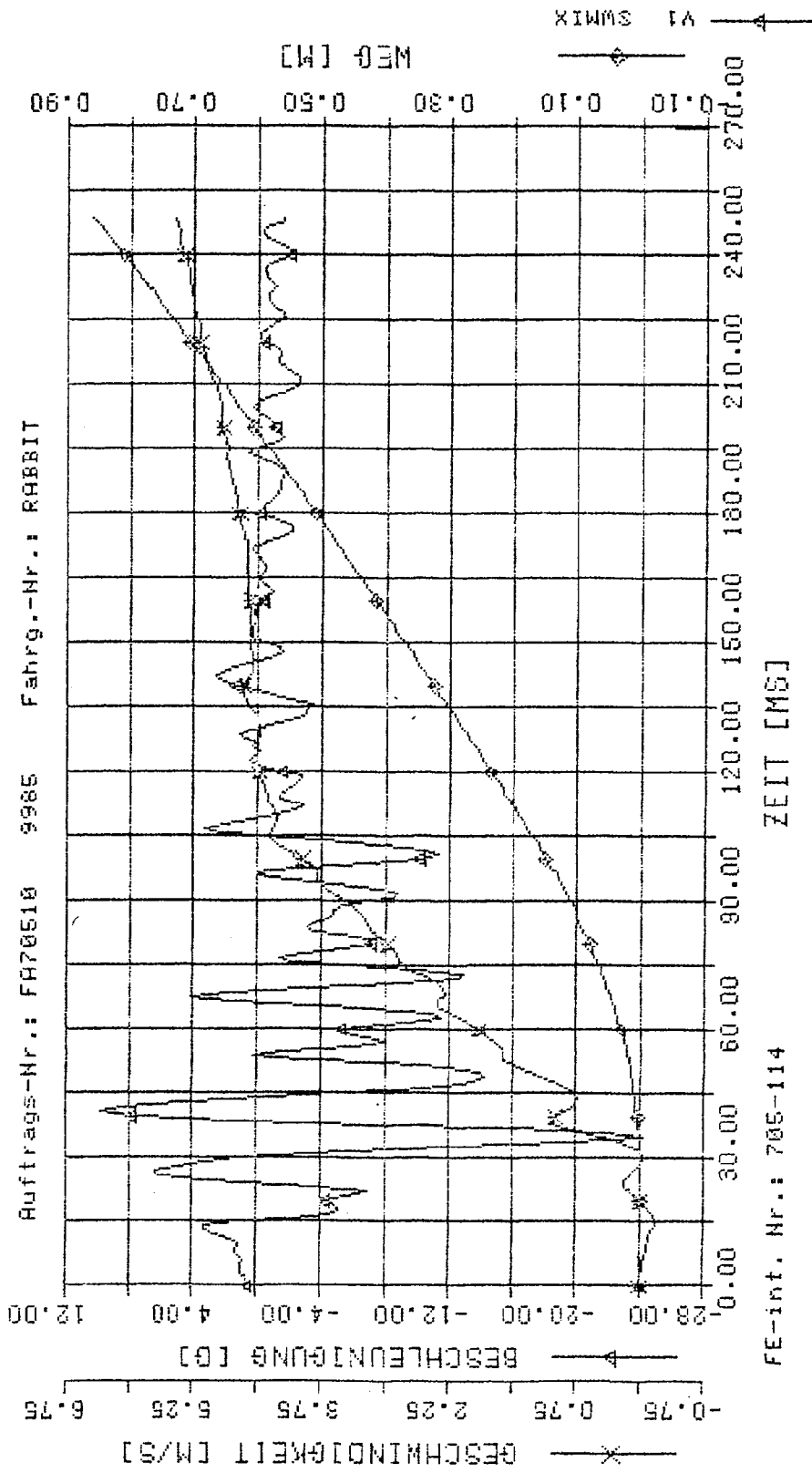
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle UP ber. Extremum t 3MS
SWMI Groesse Extr.
V1 BE g 24.845 35.00 0.00



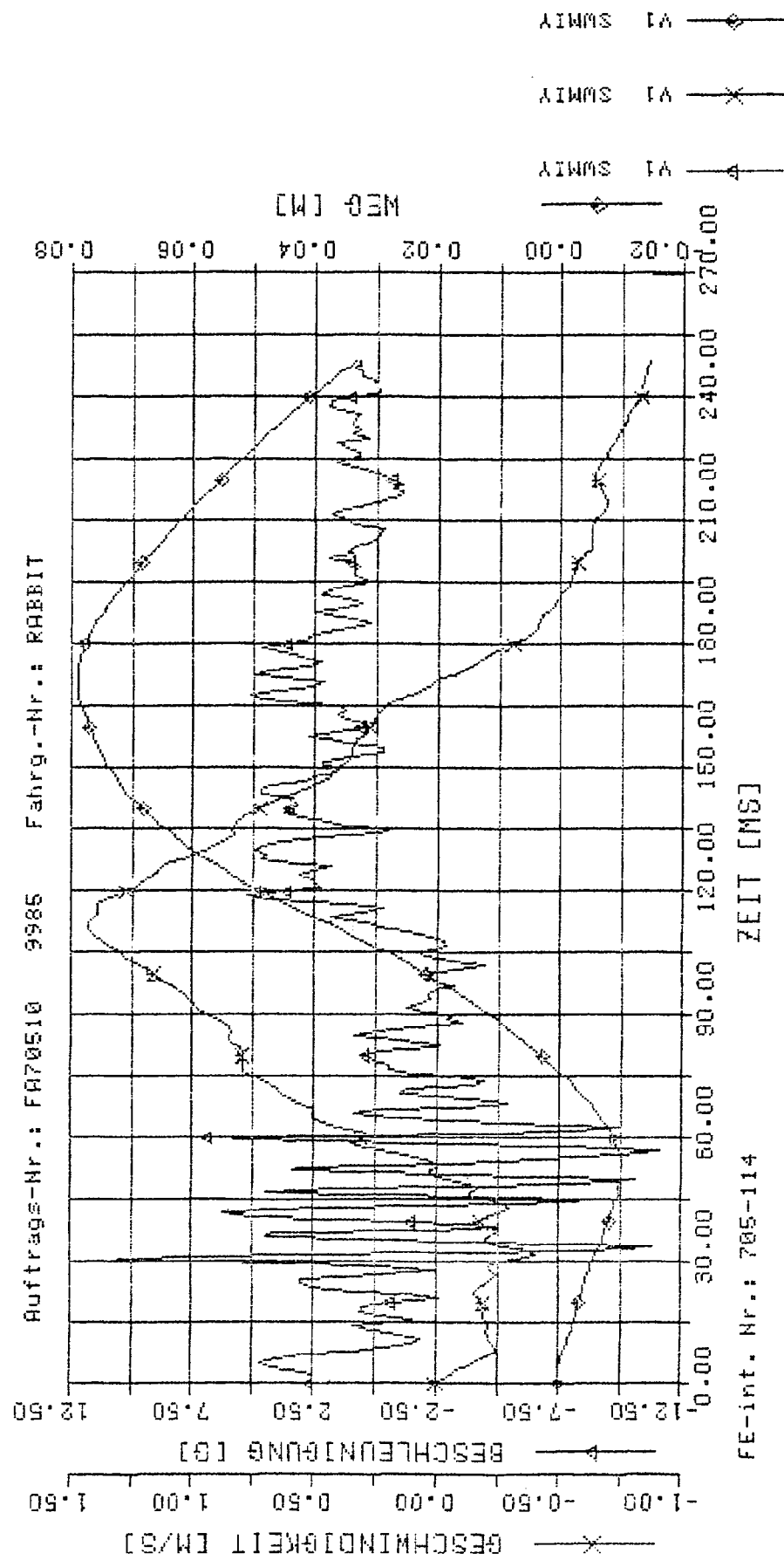
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Groesse	Extremum	t	Extr.	3MS
SWMIX	V1	BE	g	-24.223	35.00	0.00	
SWMIX	V1	GE	m/s	5.486	255.00	0.00	
SWMIX	V1	WE	m	.391	255.00	0.00	



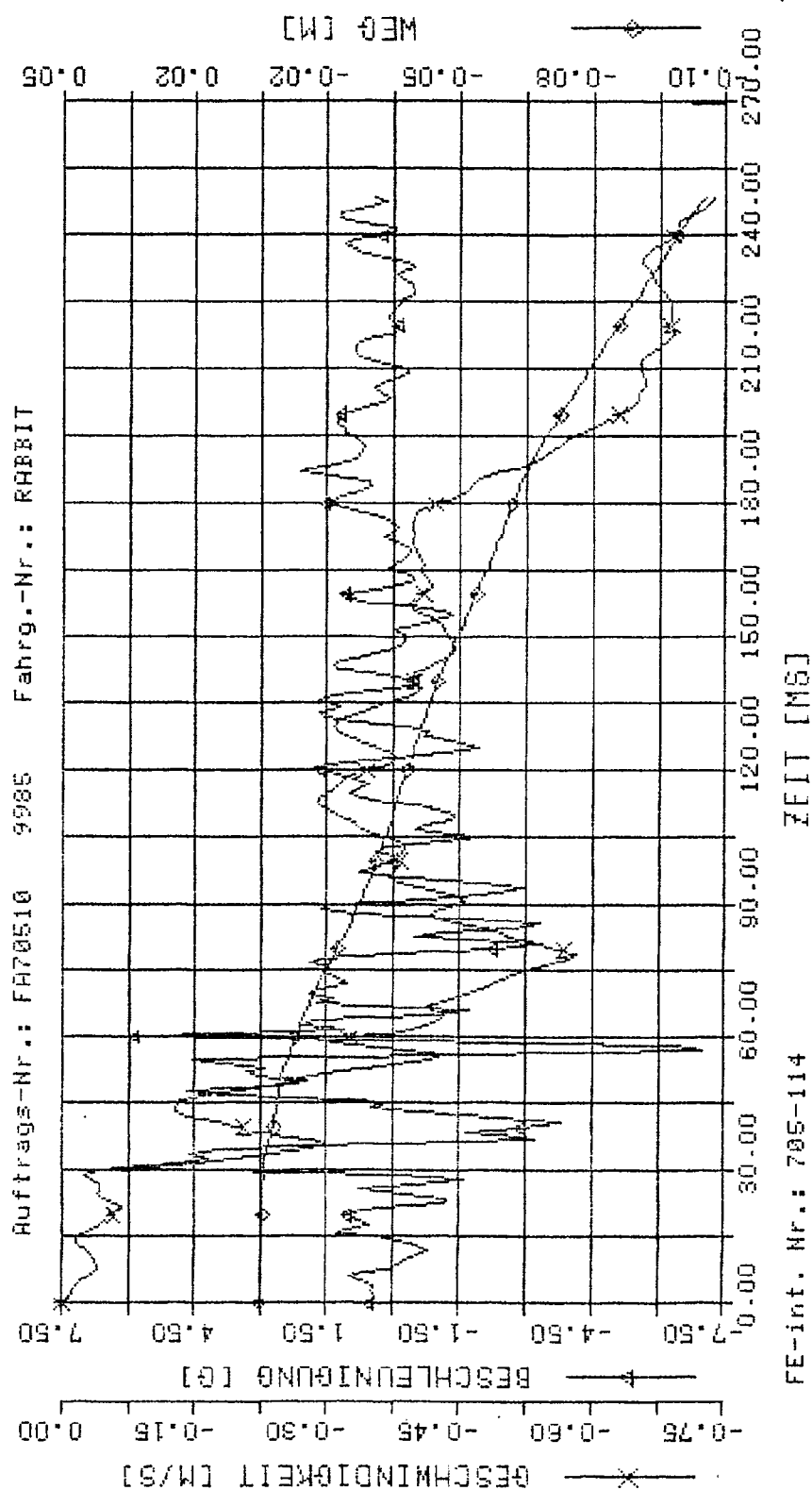
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Groesse	Extremum	t	Extr.	3MS
SUMIY	V1	BE	g	-11.657	57.00	0.00	0.00
SUMIY	V1	GE	m/s	1.425	111.00	0.00	0.00
SUMIY	V1	WE	m	.079	171.00	0.00	0.00



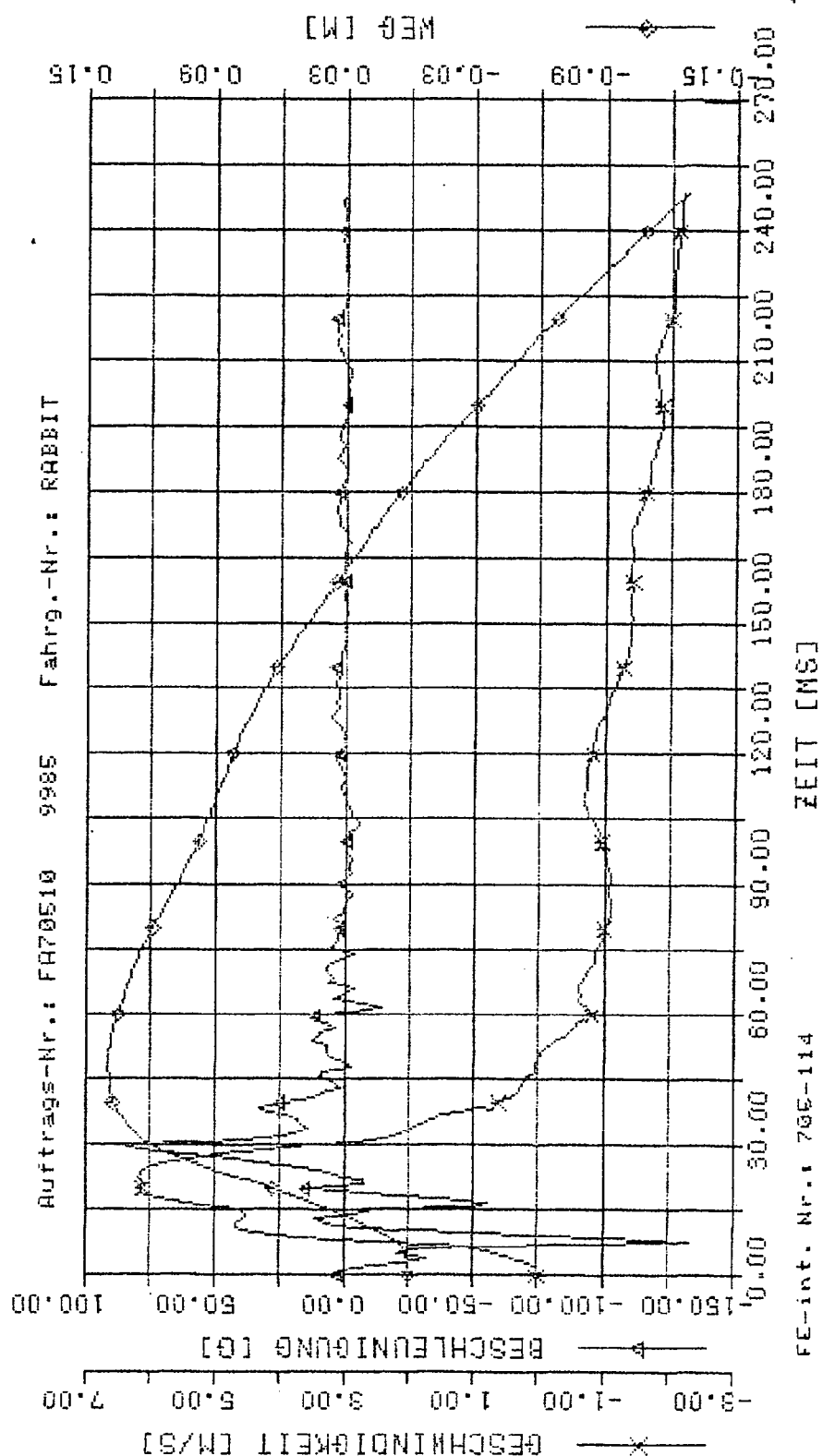
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Groesse	Extremum	t	Extr.	3MS
SWMIZ	V1	BE	g	-7.047	57.00	0.00	0.00
SWMIZ	V1	GE	m/s	-1.760	255.00	0.00	0.00
SWMIZ	V1	WE	m	-1.105	255.00	0.00	0.00



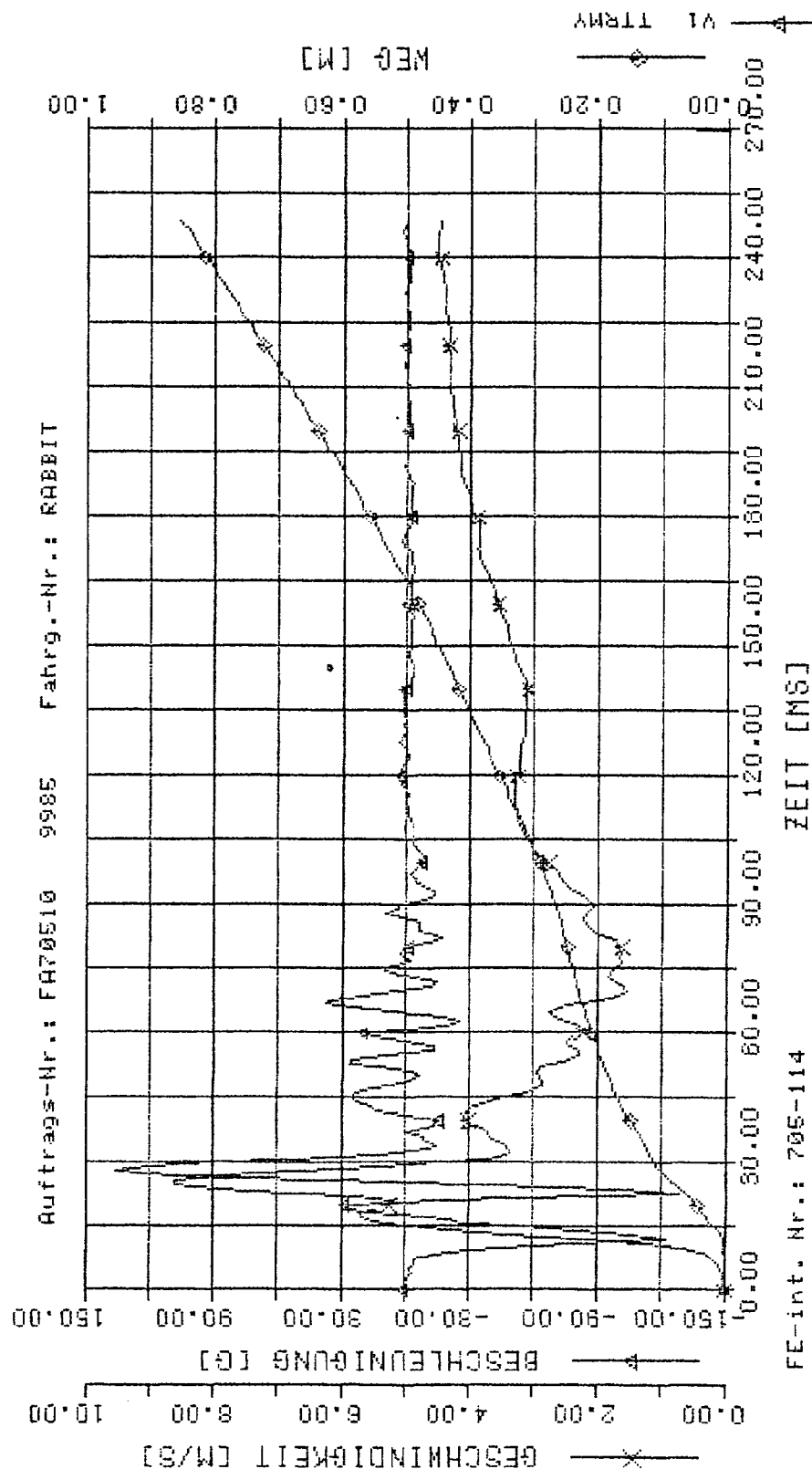
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Groesse	Extremum	t	Extr.	3MS
TTRVY	V1	BE	g	-133.317		3.00	0.00
TTRVY	V1	GE	m/s	6.165		23.00	0.00
TTRVY	V1	WE	m	-1.141		255.00	0.00



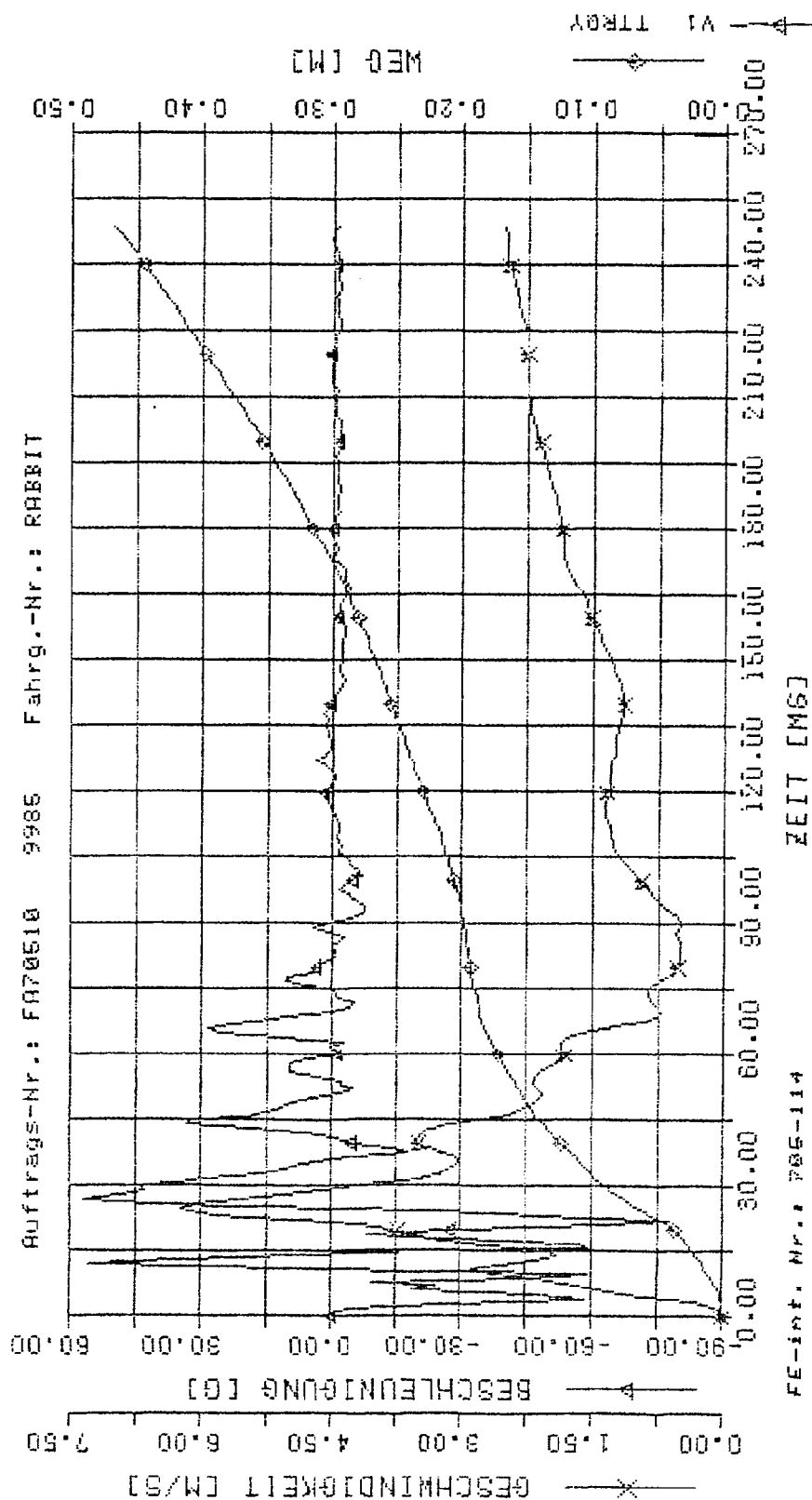
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Groesse	Extremum	t	Extr.	3MS
TTRMY	V1	BE	g	135.694		28.00	0.00
TTRMY	V1	GE	m/s	8.607		25.00	0.00
TTRMY	V1	WE	m	.379		255.00	0.00



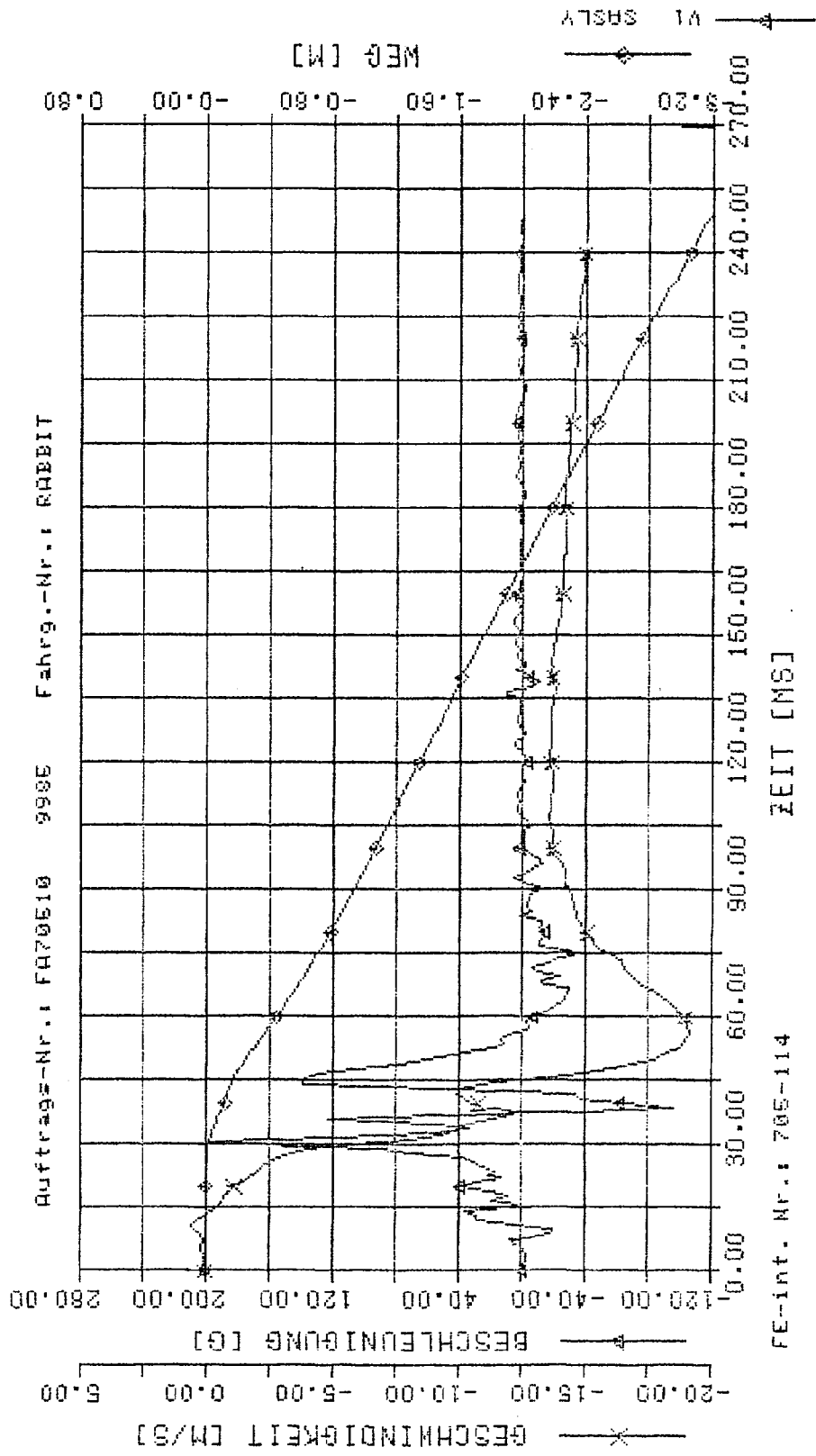
- Kennwerte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
TTRQY	V1	Grösse	-77.661	Extr.	0.00
TTRQY	V1	BE g	6.223	22.00	0.00
TTRQY	V1	GE m/s	.482	25.00	0.00
		WE m		255.00	0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

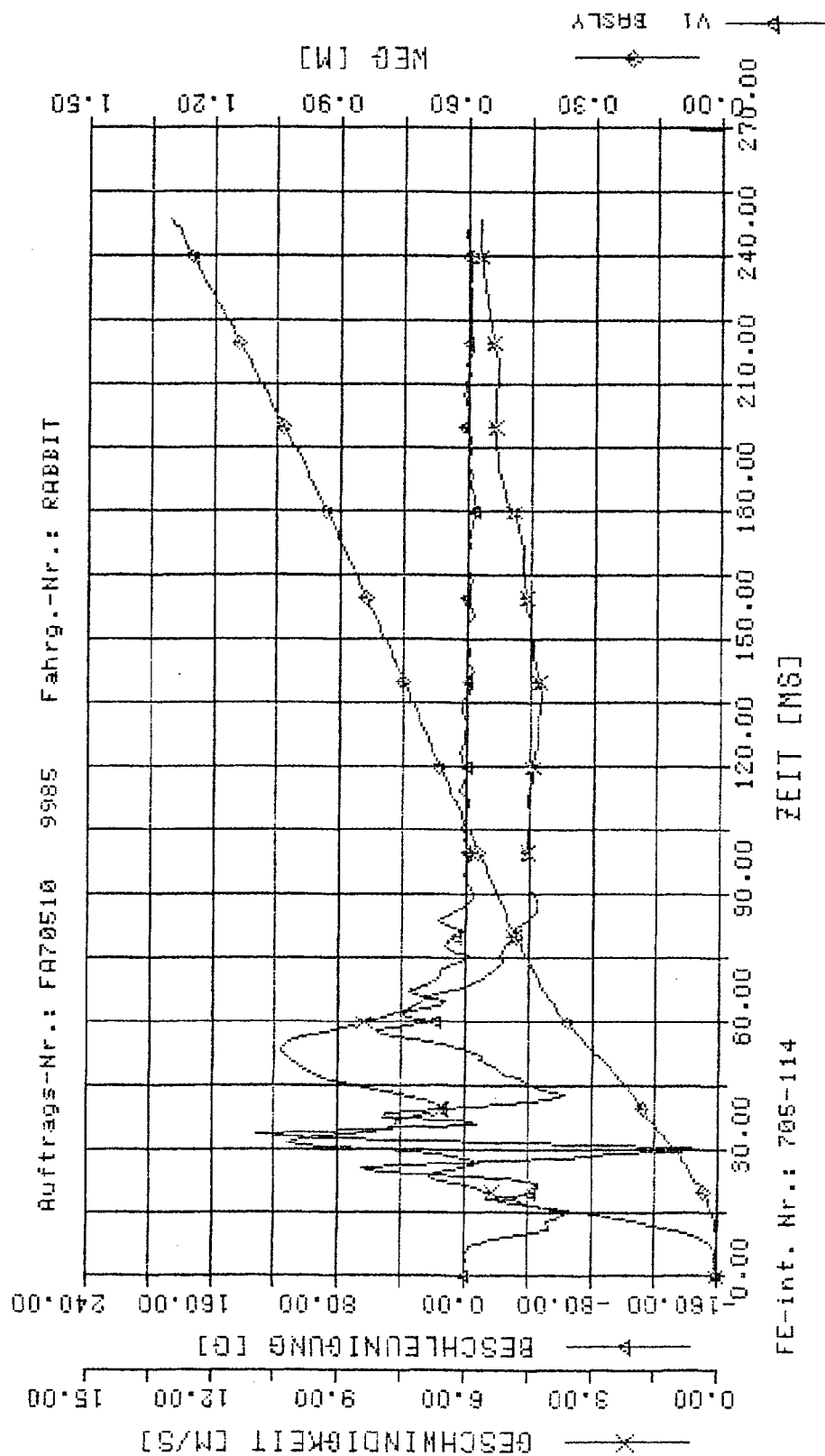
Mess-Stelle	UP	ber.	Groesse	Extremum	t	3MS
SASLY	V1	BE	g	174.865	31.00	0.00
SASLY	V1	GE	m/s	-19.113	52.00	0.00
SASLY	V1	WE	m	-3.284	255.00	0.00



Auftrags-Nr.: FA70510 9985 Fahrg.-Nr.: RABBIT

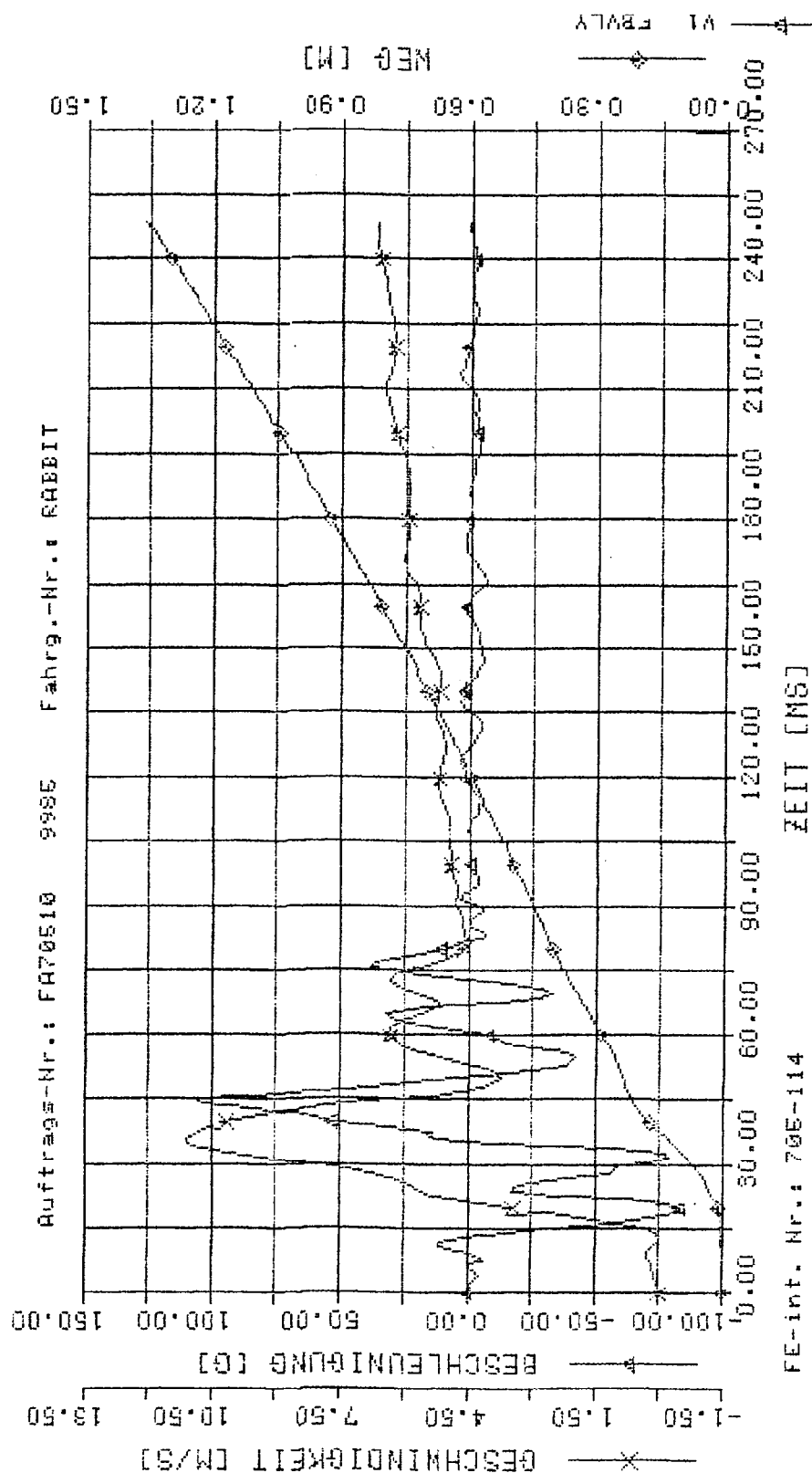
FE-int. Nr.: 705-114 ZEIT [ms]

Mess-Stelle	UP	ber. Groesse	Extremum	t Extr.	3MS
BASLY	V1	RE g	-154.890	30.00	0.00
BASLY	V1	GE m/s	10.301	54.00	0.00
BASLY	V1	WE m	1.338	255.00	0.00



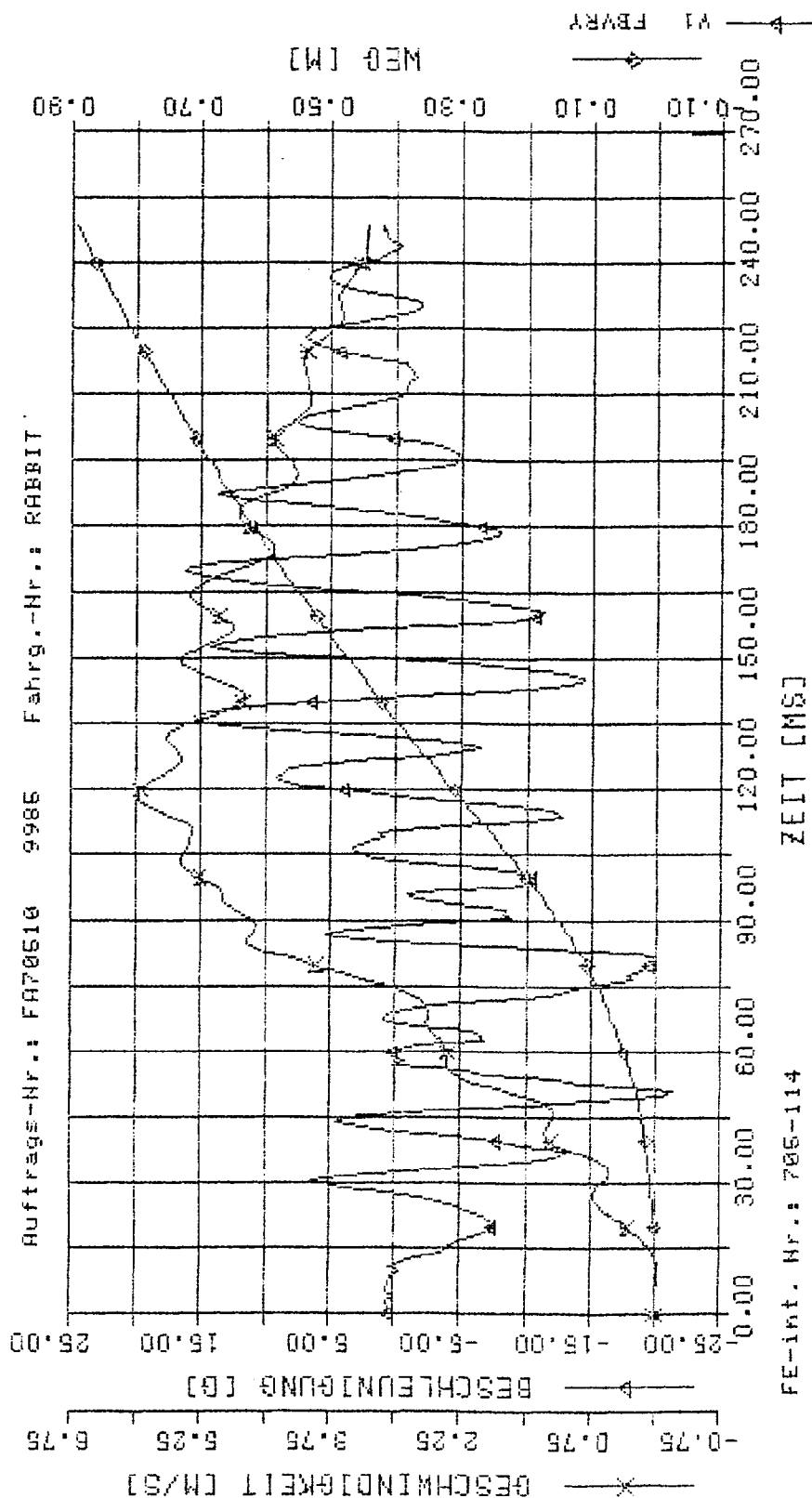
end-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Ness-Stelle	UP	ber.	Extremum	t	3MS
FBVLY	V1	BE g	106.723	45.00	0.00
FBVLY	V1	GE m/s	11.064	35.00	0.00
FBVLY	V1	WE m	1.379	255.00	0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

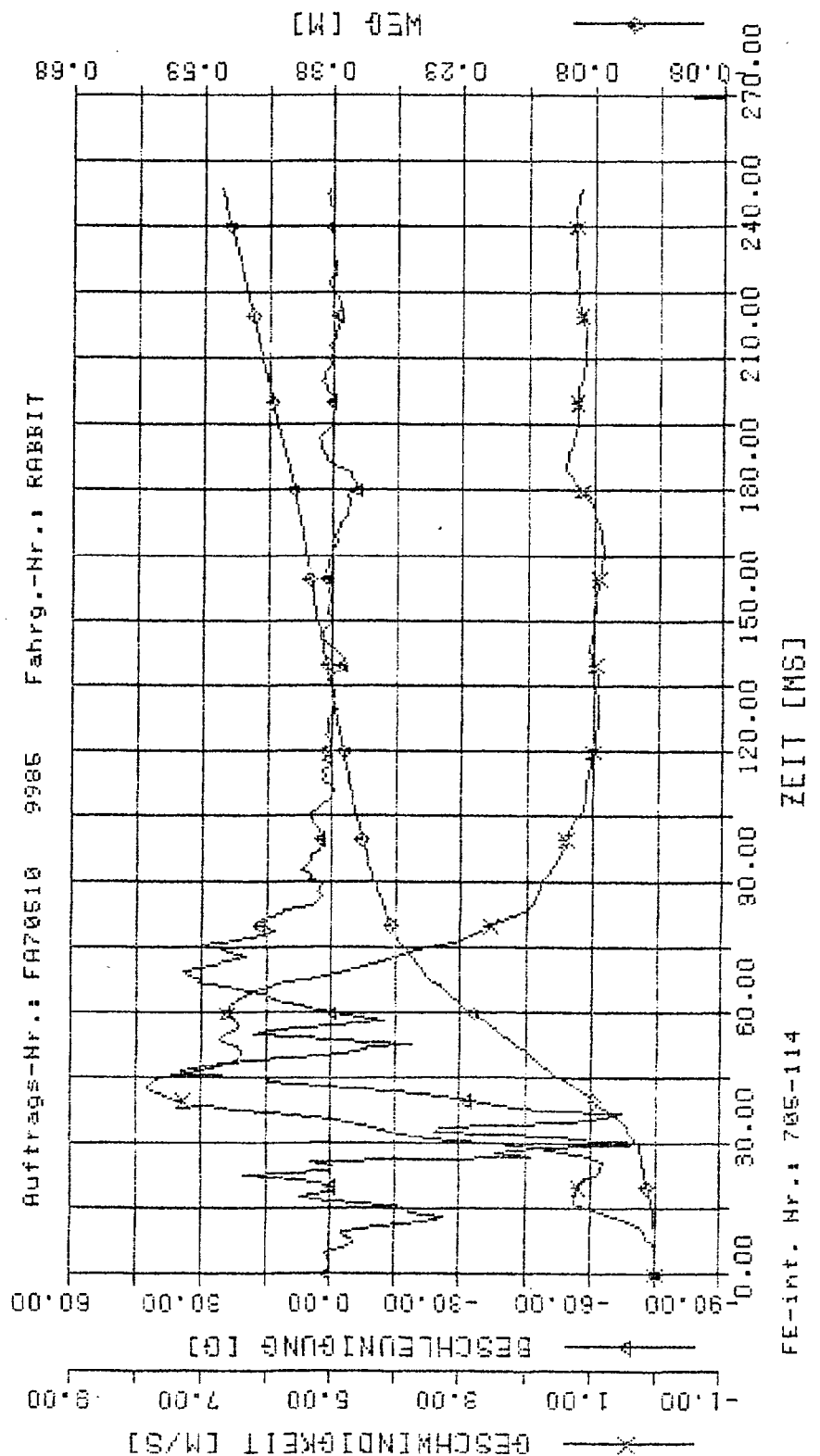
Mess-Stelle	UP	ber.	Groesse	Extremum	t	Extr.	3MS
FBVRY	V1	BE	g	-21.367	51.00	0.00	0.00
FBVRY	V1	GE	m/s	5.974	119.00	0.00	0.00
FBVRY	V1	WE	m	.913	255.00	0.00	0.00



FE-int. Nr.: 705-114

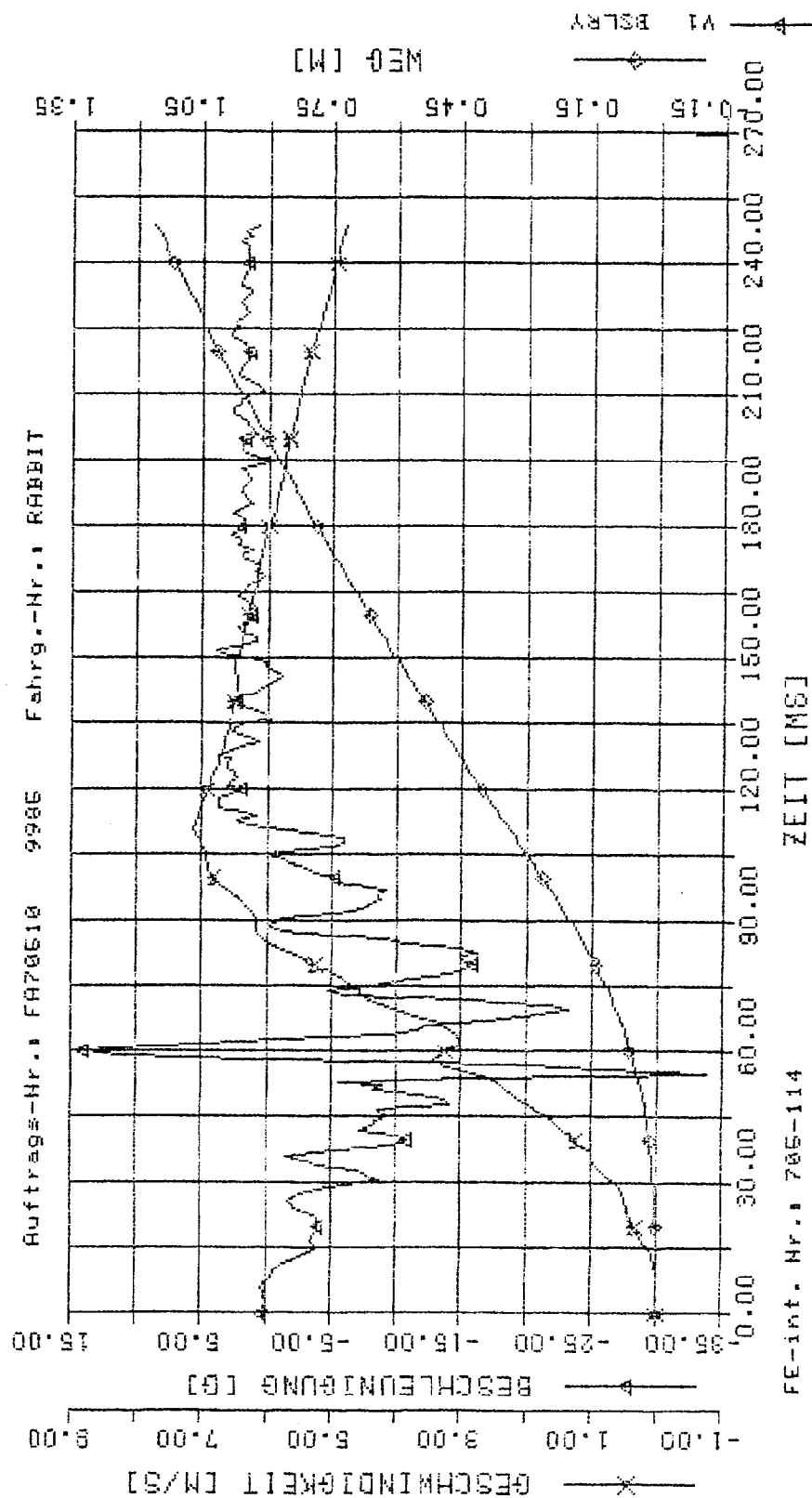
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mass-Stelle	UP	ber.	Extremum	t	3MS
BSLLY	V1	BE g	-76.652	30.00	0.00
BSLLY	V1	GE m/s	7.826	43.00	0.00
BSLLY	V1	WE m	.512	255.00	0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

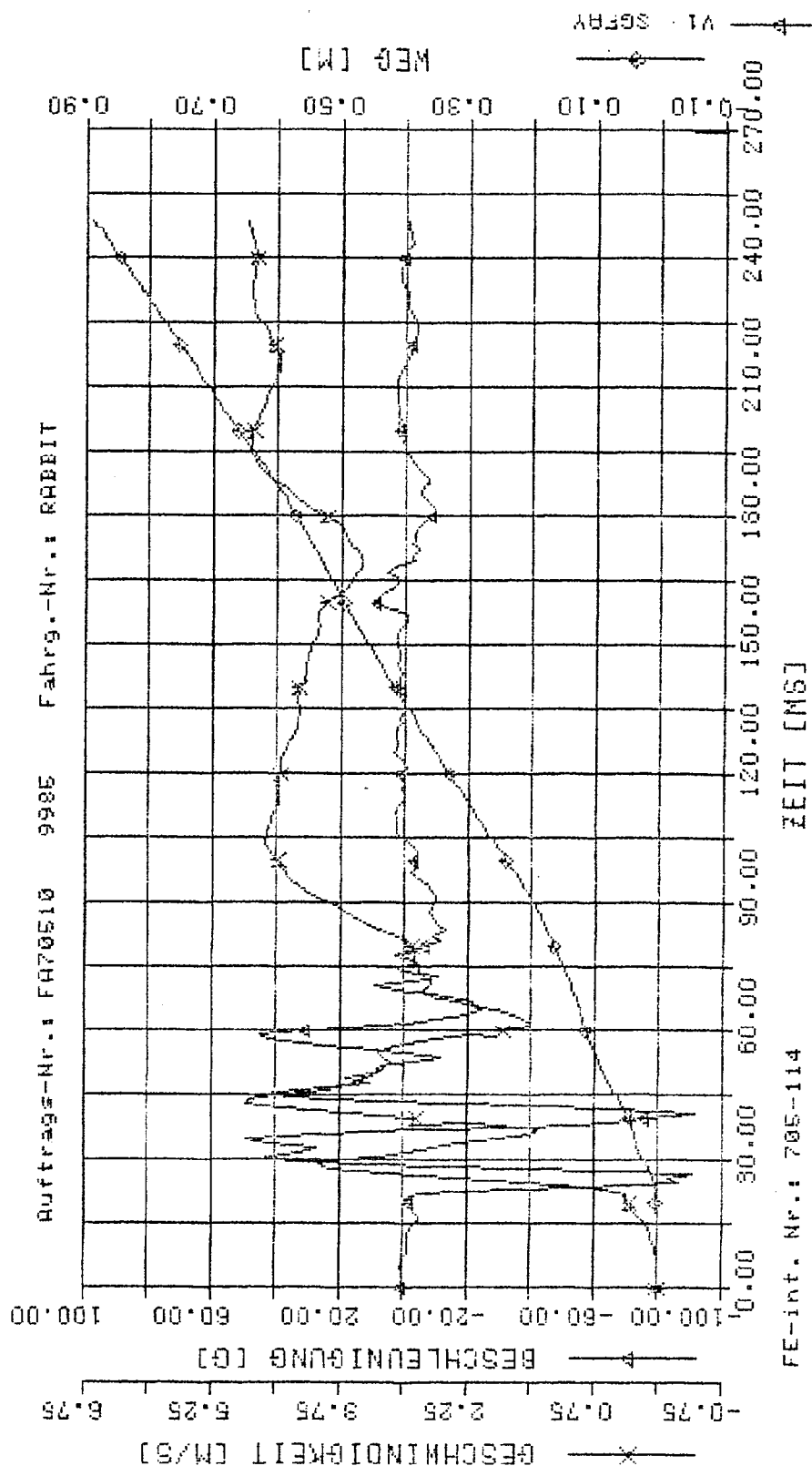
Ness-Stelle	UP	ber.	Groesse	Extremum	t	Extr.	3MS
BSLRY	V1	BE	g	-33.820		55.00	0.00
BSLRY	V1	GE	m/s	7.122		111.00	0.00
BSLRY	V1	WE	m	1.190		255.00	0.00



FE-int. Nr.: 705-114

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

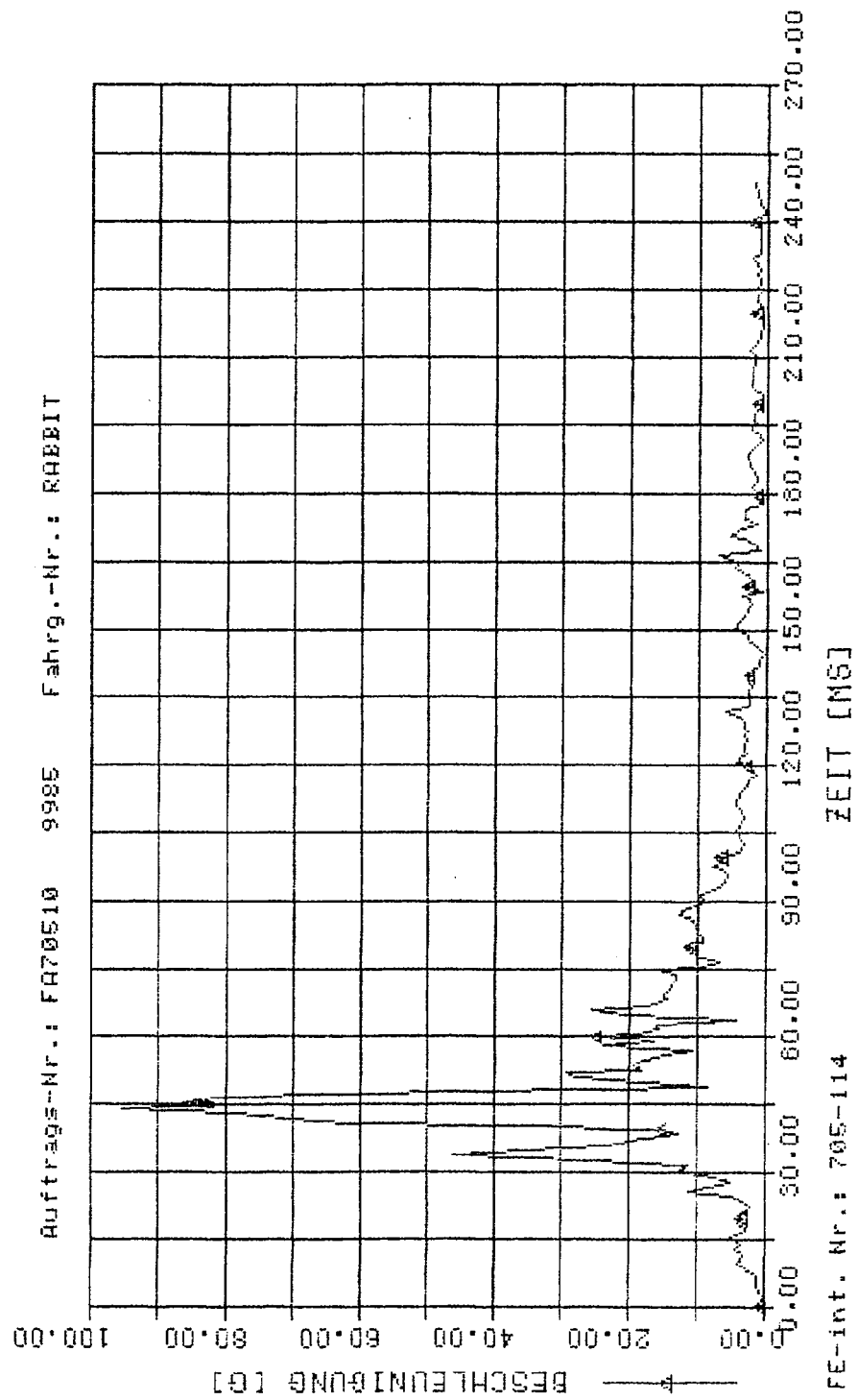
Mess-Stelle	UP	ber.	Groesse	Extremum	t	Extr.	3MS
SGFAY	V1	BE	g	-91.845		41.00	0.00
SGFAY	V1	GE	m/s	4.870		255.00	0.00
SGFAY	V1	WE	m	.918		255.00	0.00



FE-int. Nr.: 705-114

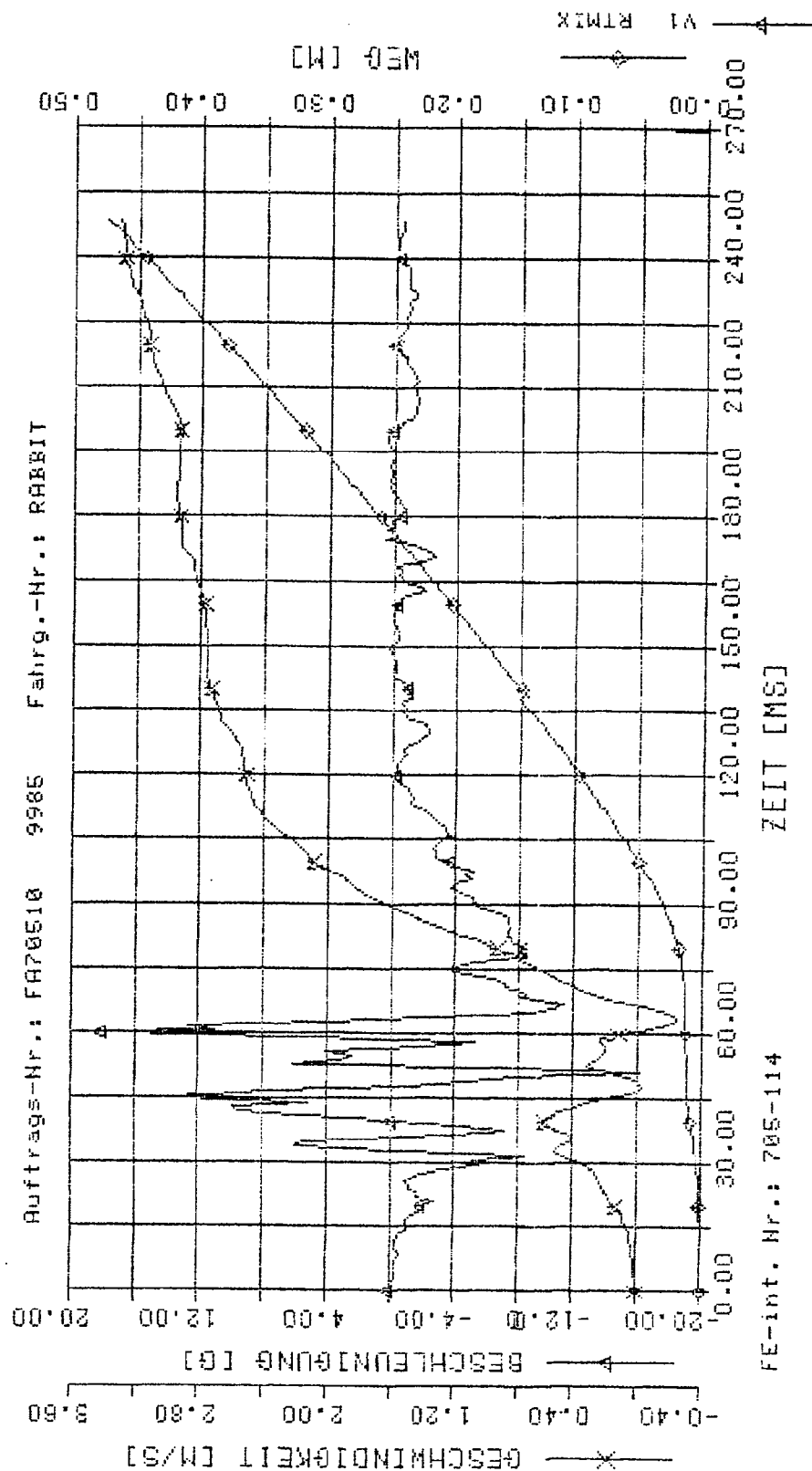
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
RTMI	V1	BE	Groesse	Extr.	
			95.20%	44.00	0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

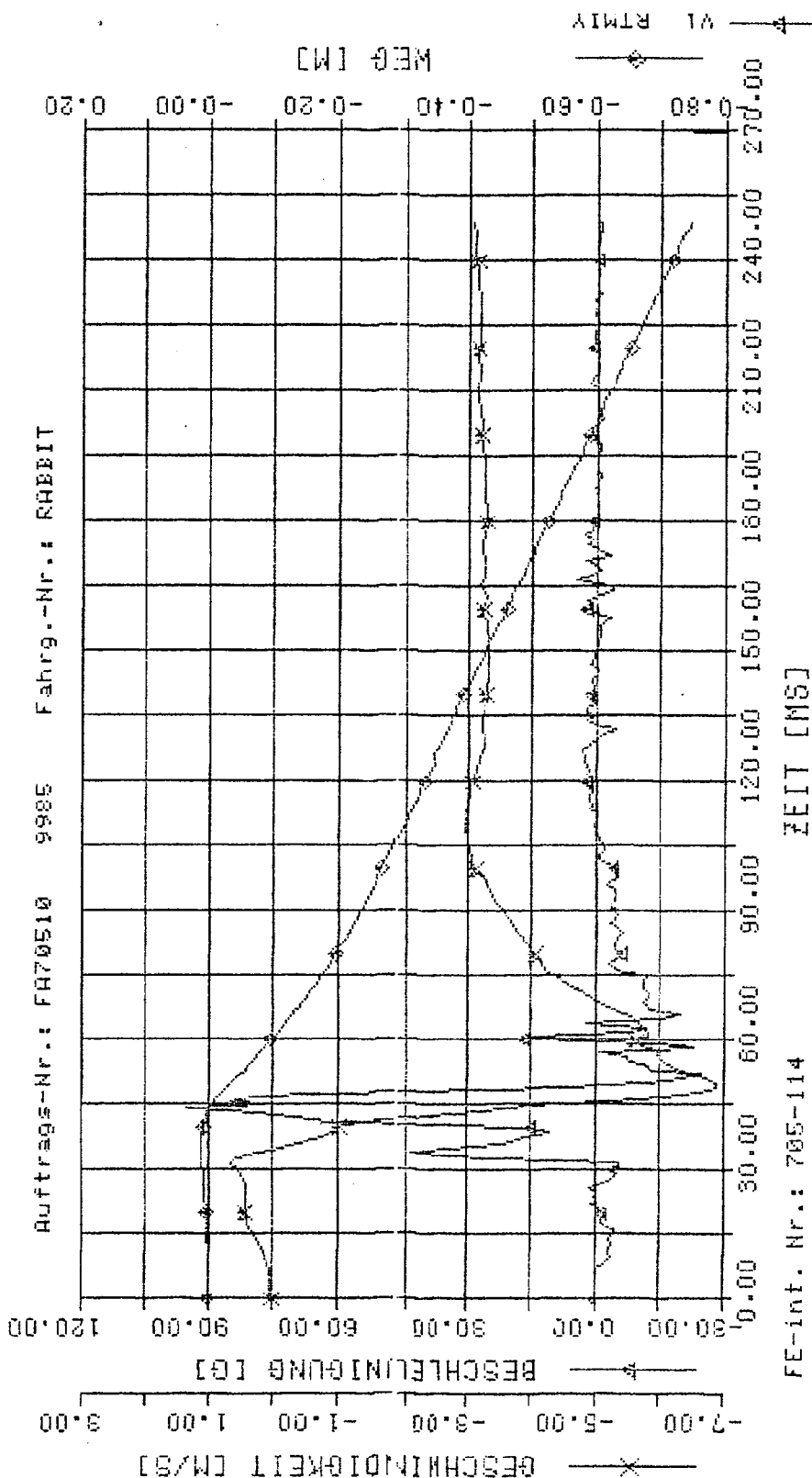
Mess-Stelle	UP	ber.	Groesse	Extremum	t	Extr.	3MS
RTMIX	V1	BE	g	18.047		60.00	0.00
RTMIX	V1	GE	m/s	3.346		255.00	0.00
RTMIX	V1	WE	m	.494		255.00	0.00



FE-int. Nr.: 705-114

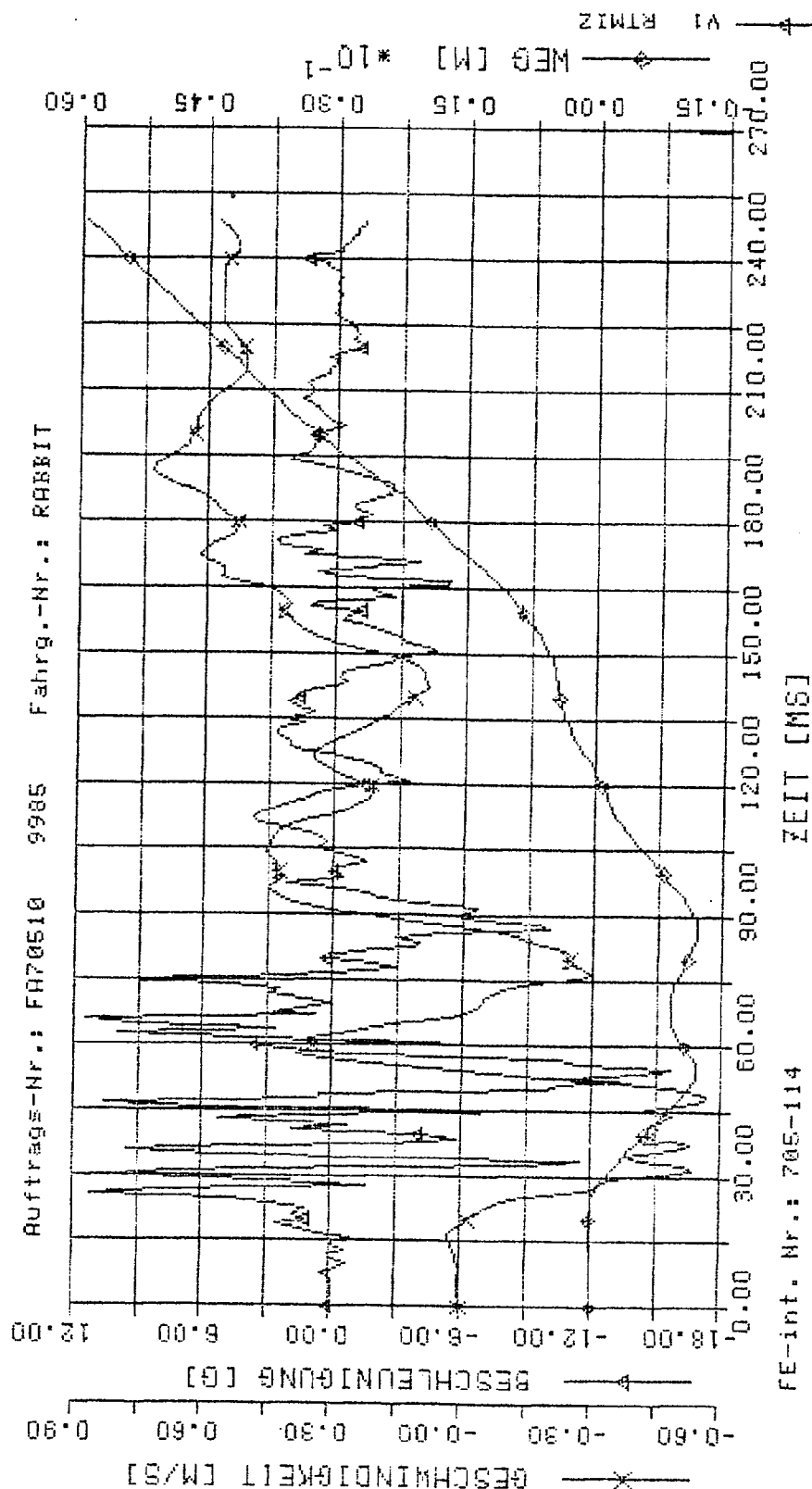
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

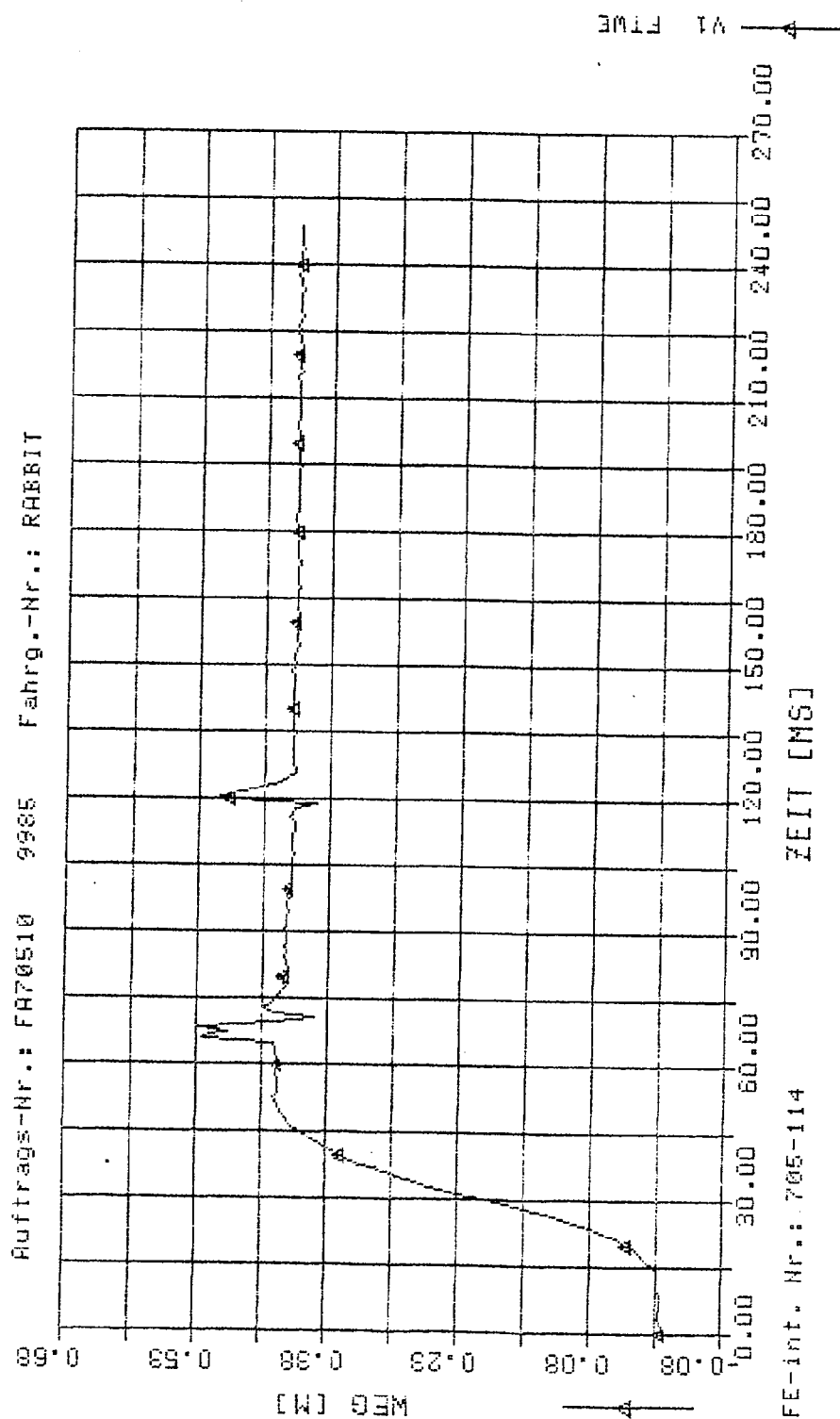
Mess-Stelle	UP	ber.	Extremum	t	3MS
RTMIY	V1	BE g	95.057	44.00	0.00
RTMIY	V1	GE m/s	-8.912	49.00	0.00
RTMIY	V1	WE m	-1.765	255.00	0.00

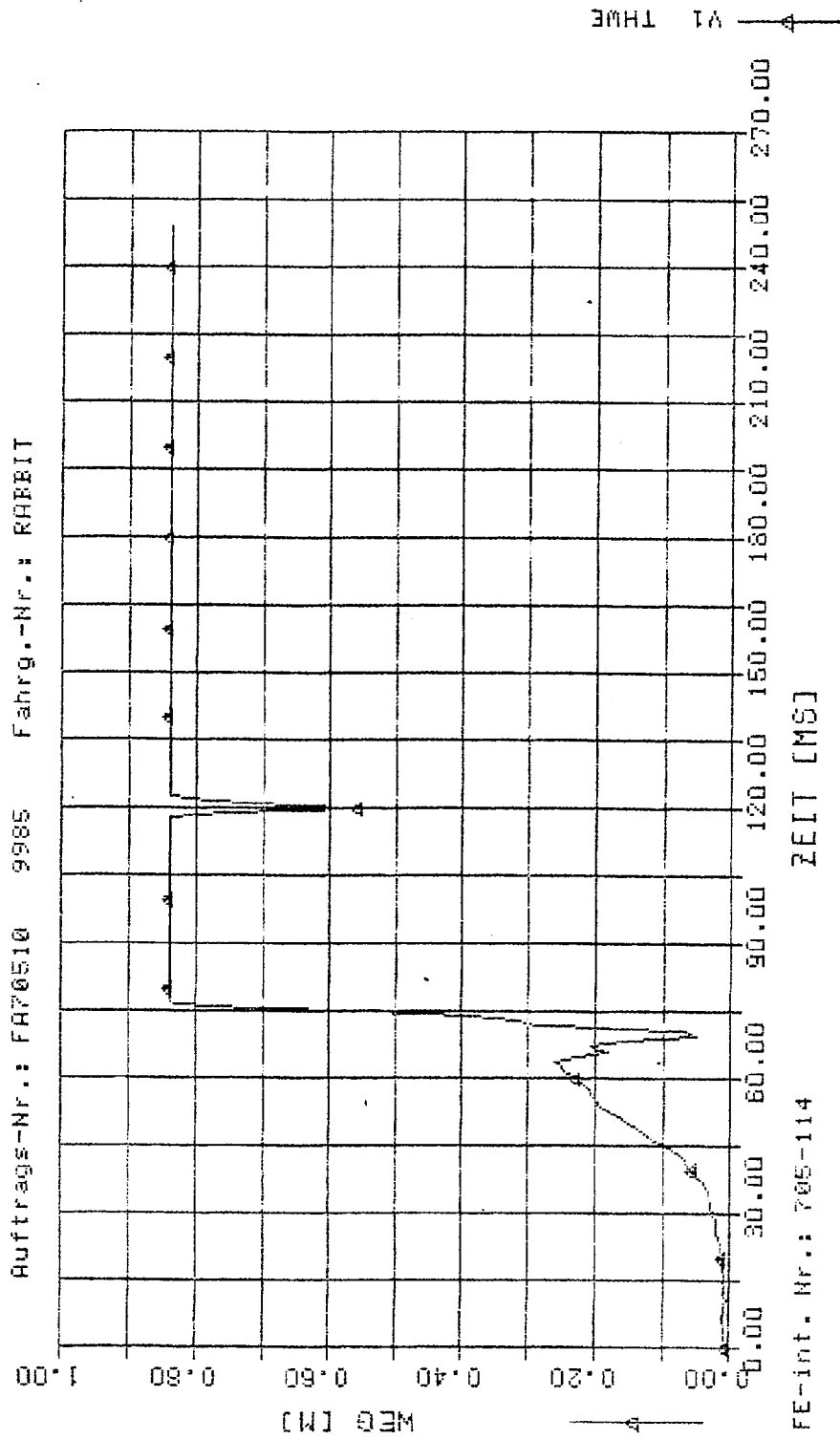


- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Grösse	Extremum	t	3MS
RTMIZ	V1	WE	g	-15.650	55.00	0.00
RTMIZ	V1	GE	m/s	.726	192.00	0.00
RTMIZ	V1	WE	m	.063	255.00	0.00



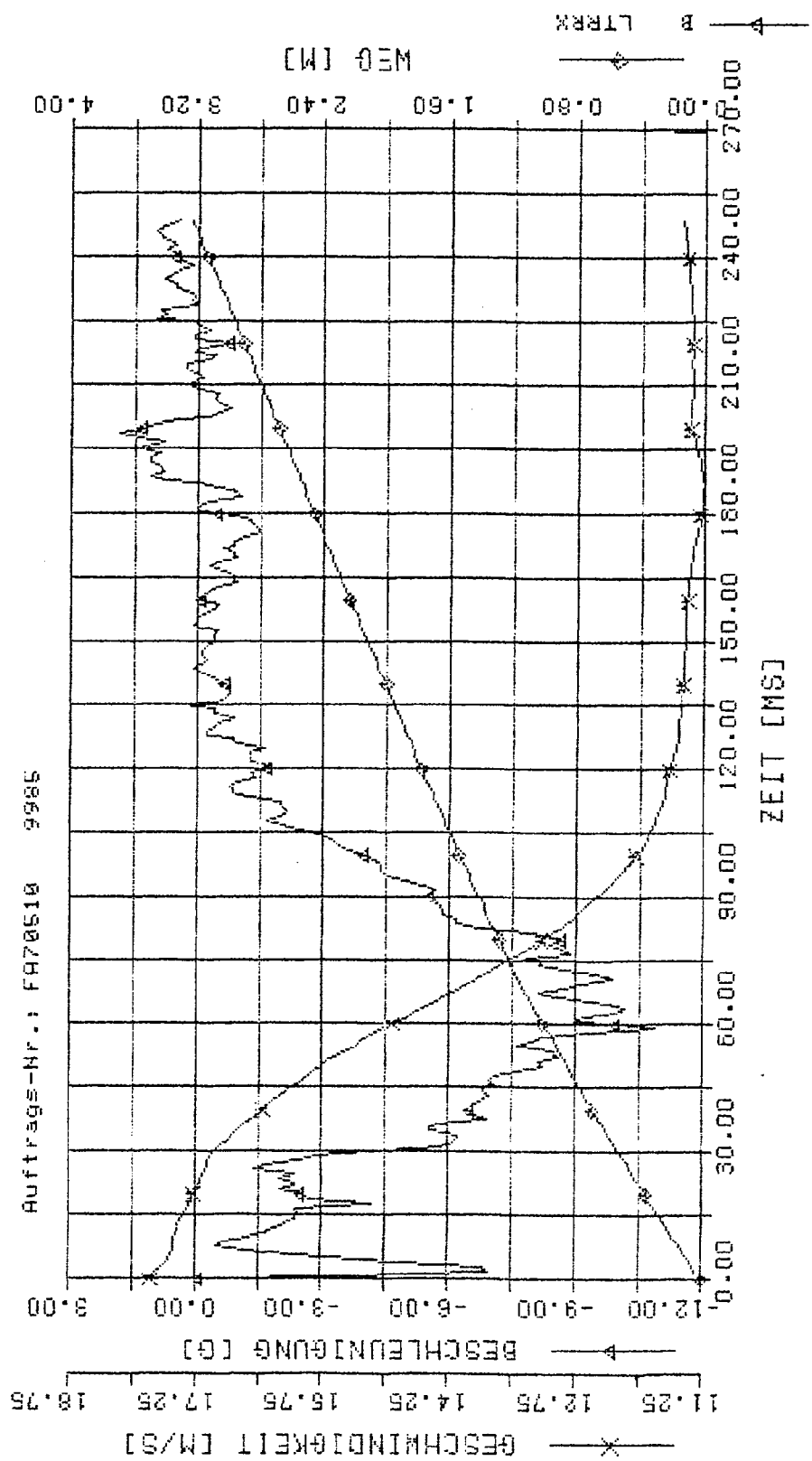




B.1.2 Crabbed Barrier

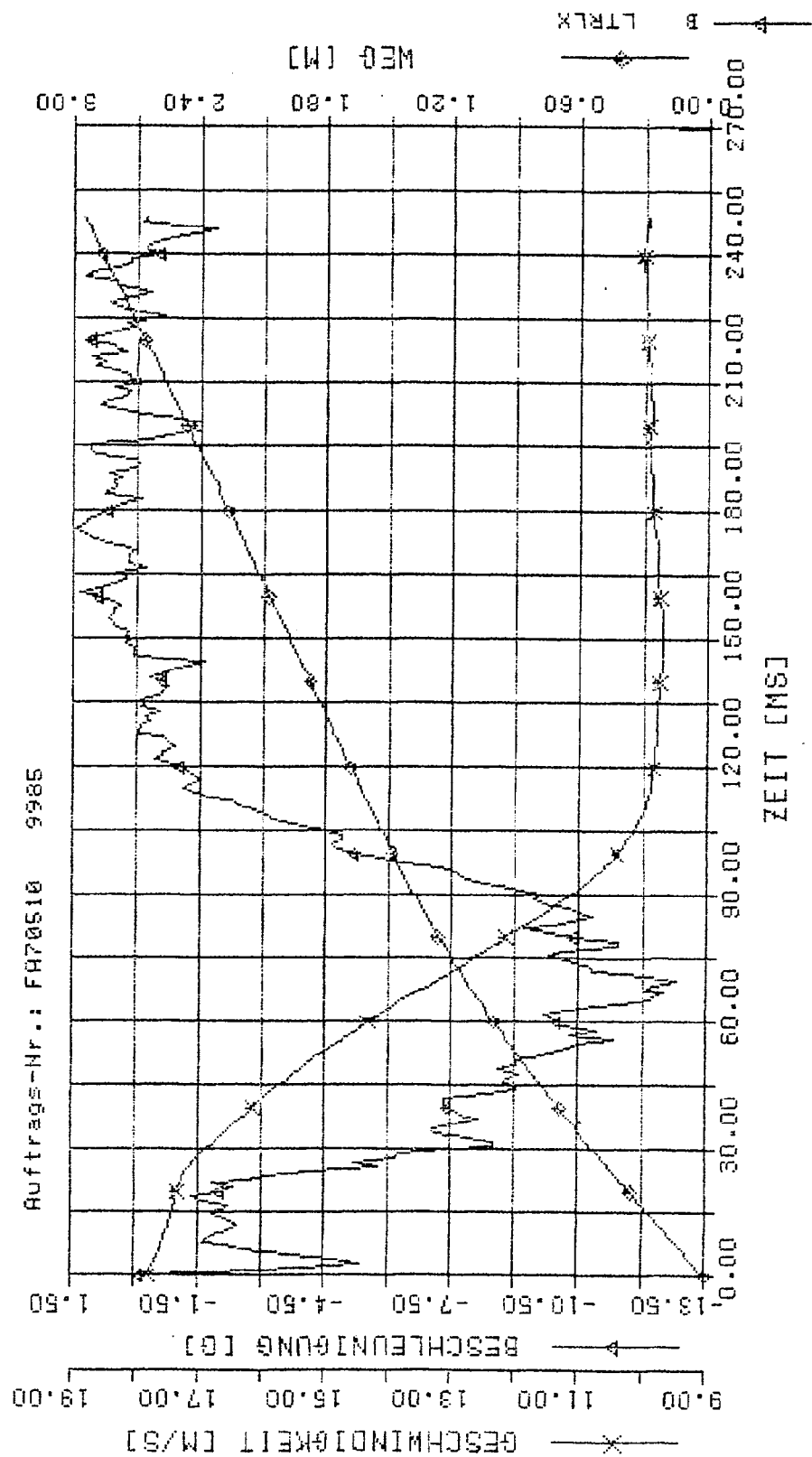
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	τ	3MS
LTRX	B	Grösse		Extr.	
LTRX	B	BE g	-10.899	59.00	0.00
LTRX	B	GE m/s	17.789	0.00	0.00
LTRX	B	WE m	3.313	255.00	0.00



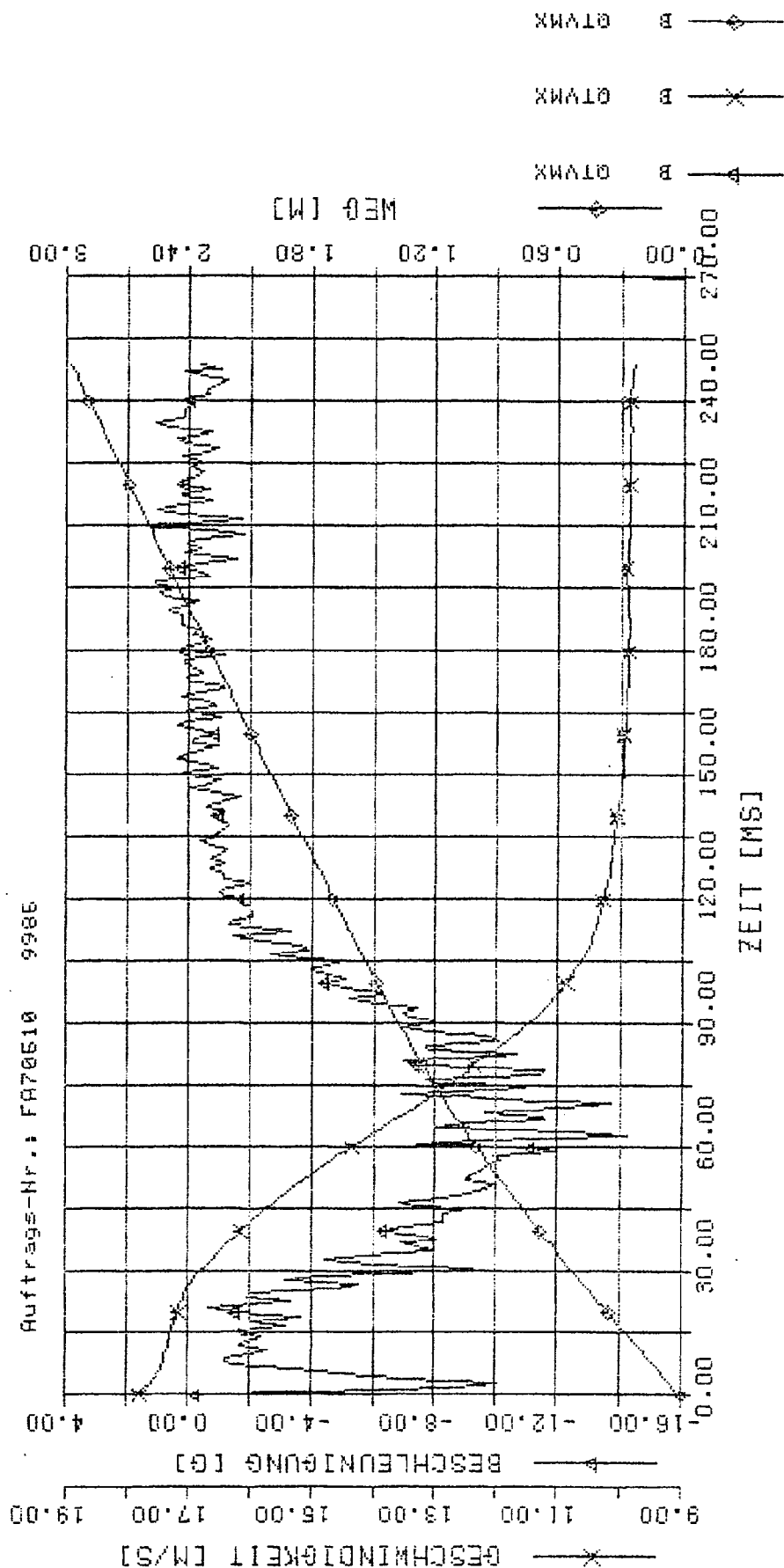
- Kennwerte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
LTRLX	B	Grösse		Extr.	
LTRLX	B	BE g	-12.799	70.00	0.00
LTRLX	B	GE m/s	17.789	0.00	0.00
LTRLX	B	WE m	3.012	255.00	0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

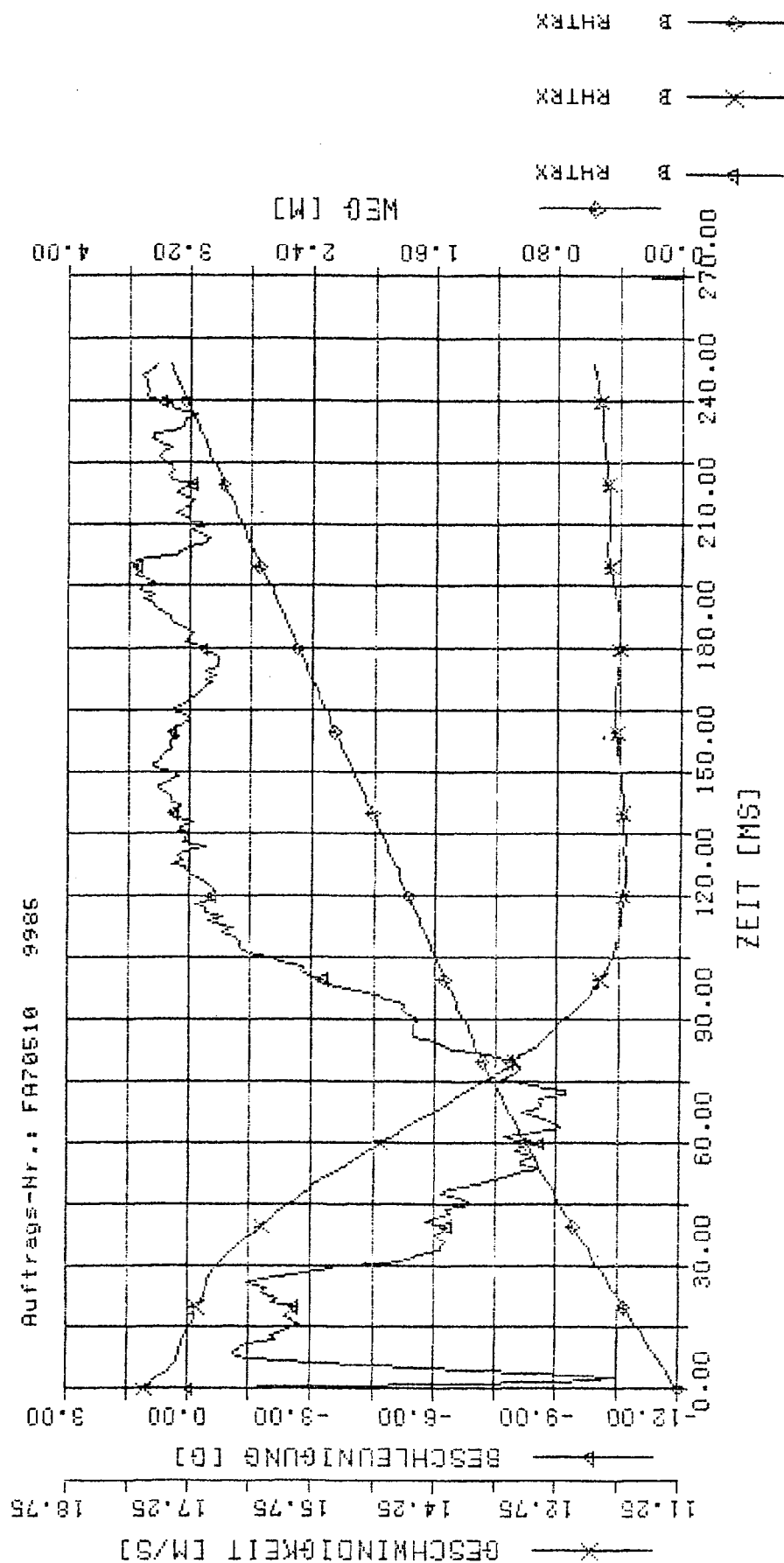
Mess-Stelle	UP	ber.	Extremum	t	3MS
QTVMX	B	Groesse	-14.225	Extr.	0.00
QTVMX	B	BE g	17.789	0.00	0.00
QTVMX	B	BE m/s	3.036	255.00	0.00



Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

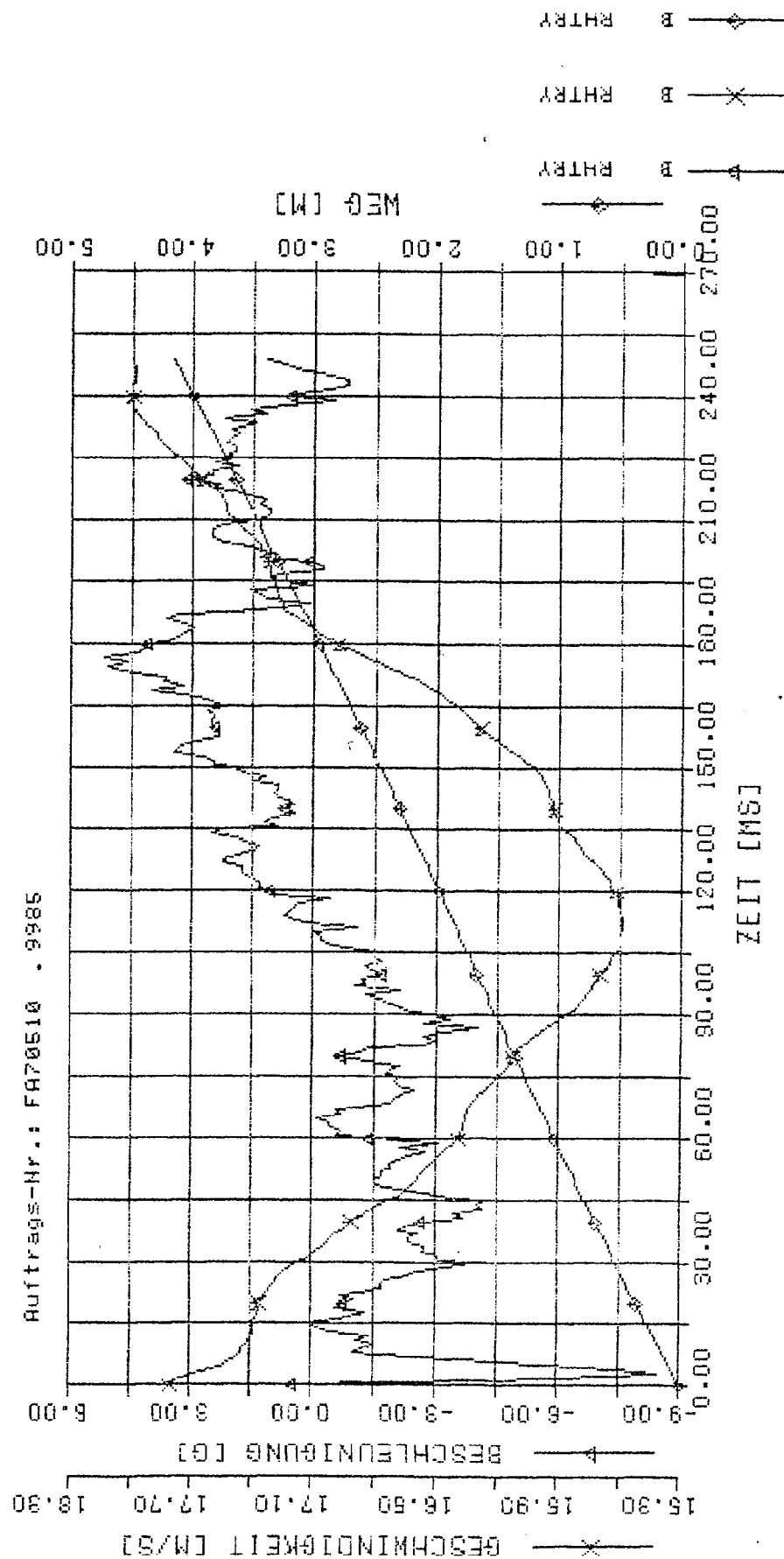
Mass-Stelle	UP	ber.	Extremum	t	3MS
RHTRX	B	BE g	-10.537	Extr.	0.00
RHTRX	B	GE m/s	17.789	0.00	0.00
RHTRX	B	WE m	3.403	255.00	0.00

Auftrags-Nr.: FA70510 9986



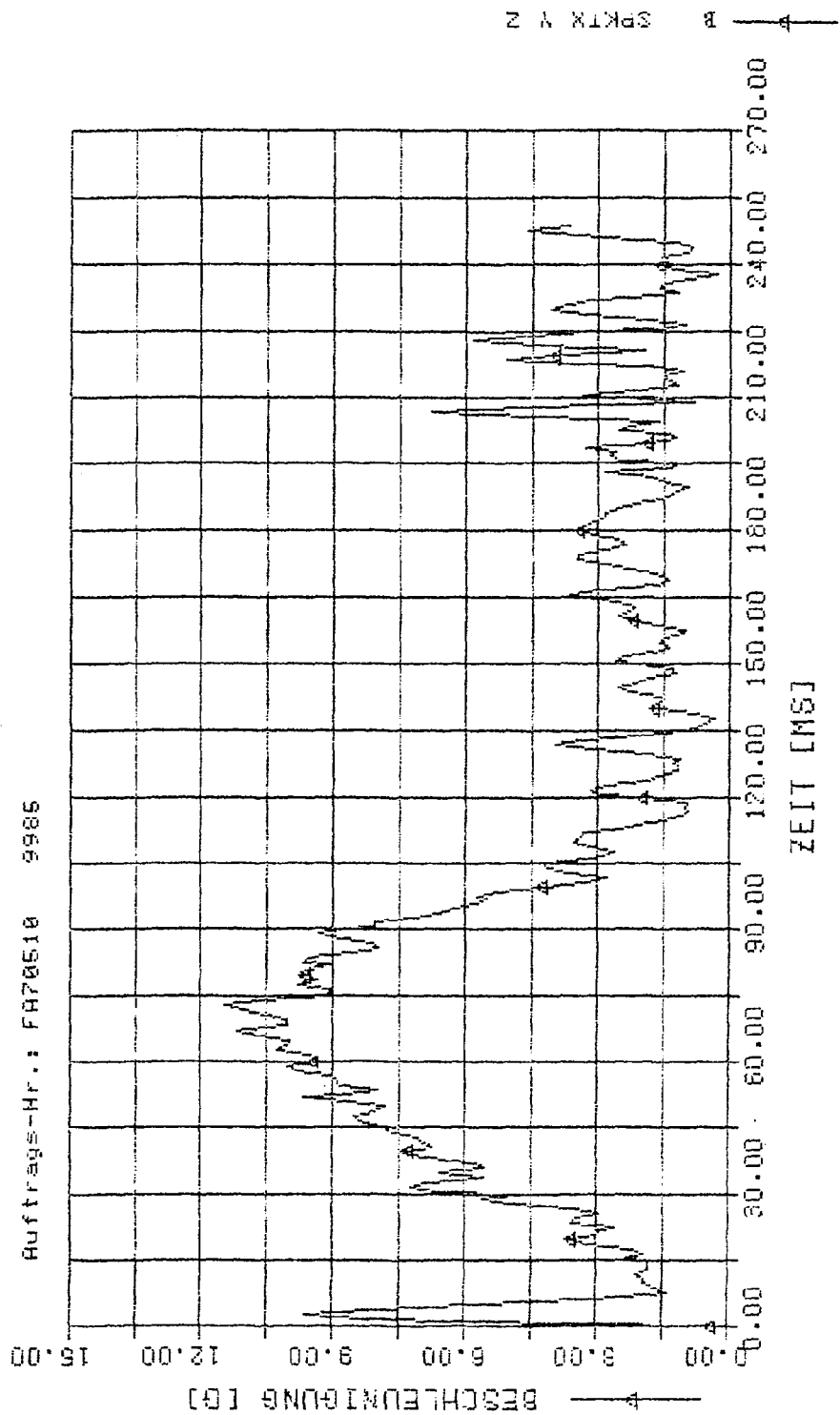
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
		Groesse		Extr.	
RHTRY	B	BE g	-8.463	3.00	0.00
RHTRY	B	GE m/s	18.074	255.00	0.00
RHTRY	B	WE m	4.270	255.00	0.00



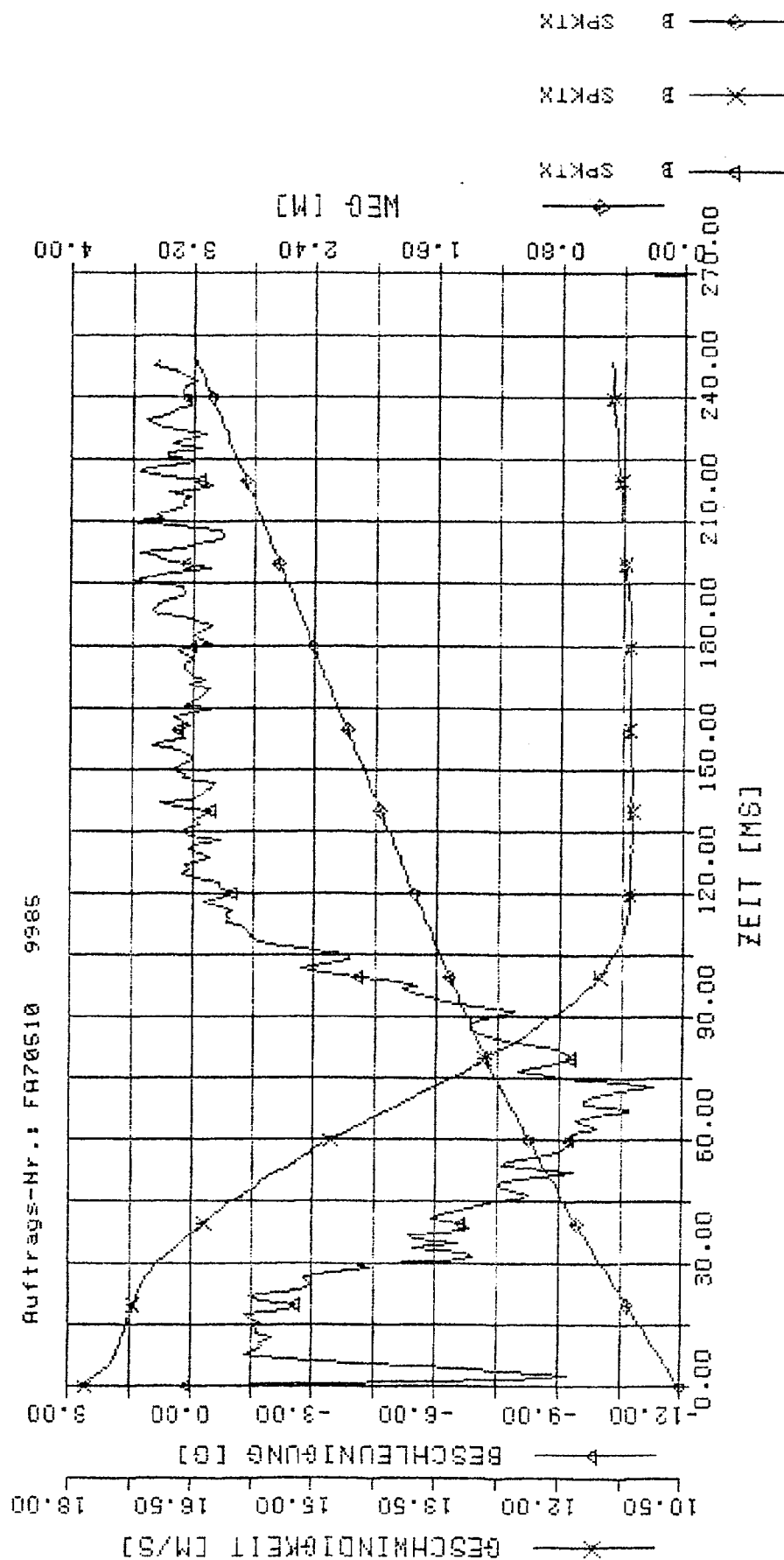
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	T	3MS
SPKT	B	BE g	11.463	Extr.	0.00
					73.00



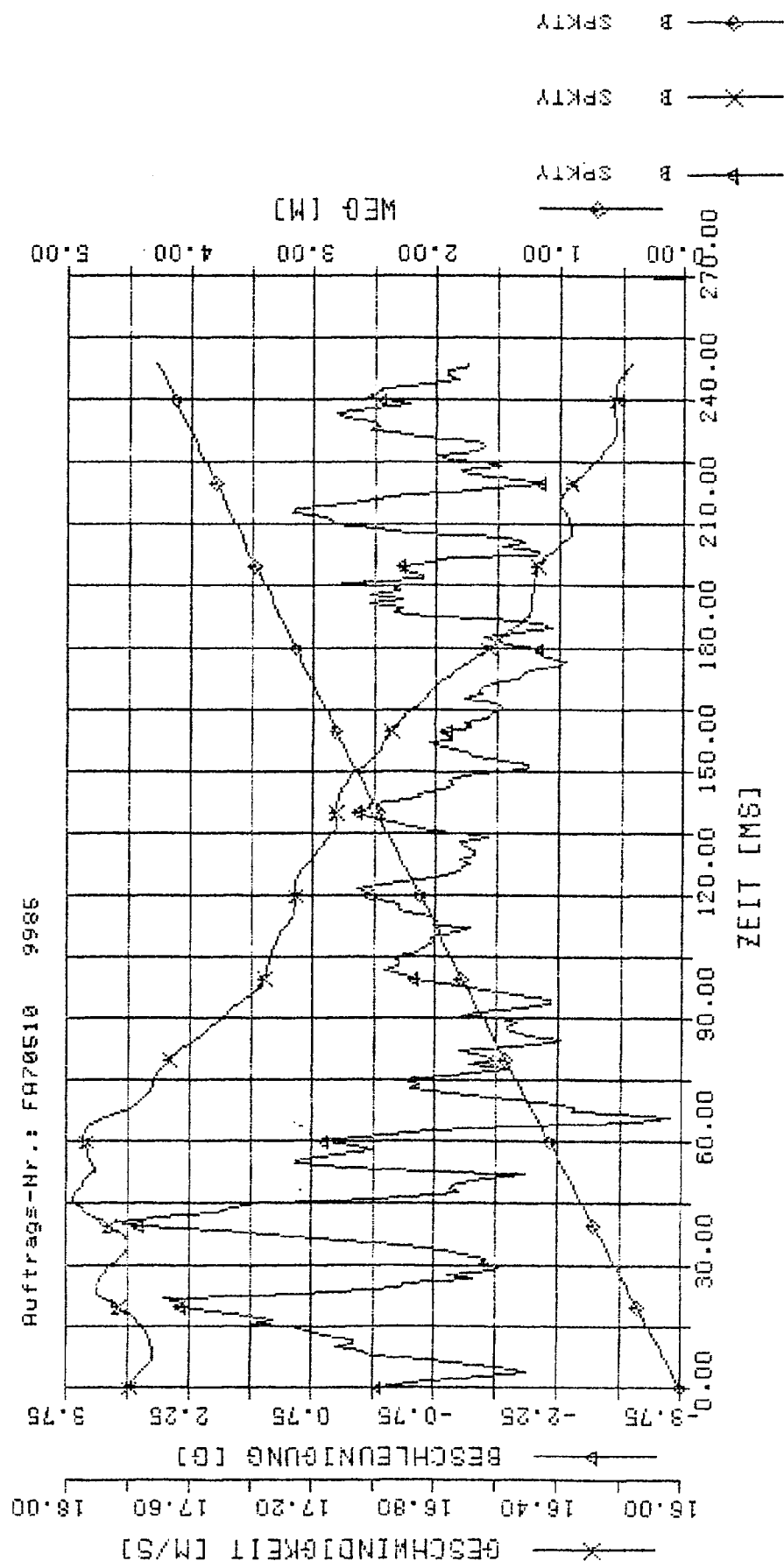
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
SPKTX	B	Groesse	-11.294	73.00	0.00
SPKTX	B	BE g	17.789	0.00	0.00
SPKTX	B	CE m/s	3.256	255.00	0.00
SPKTX	B	WE m			



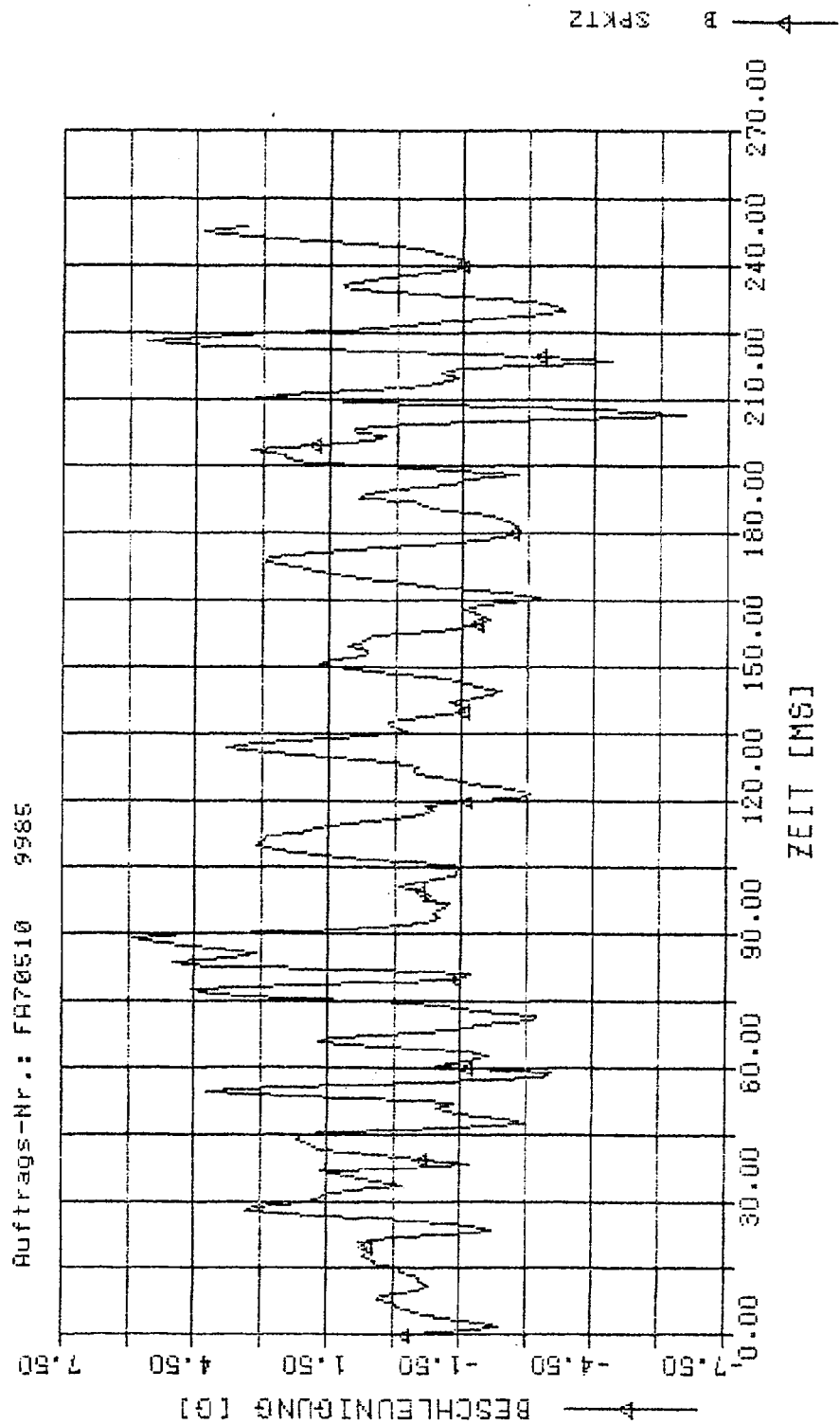
Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
		Groesse		Extr.	
SPKTY	B	BE g	-3.615	66.00	0.00
SPKTY	B	GE m/s	17.975	47.00	0.00
SPKTY	B	WE m	4.370	255.00	0.00



Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

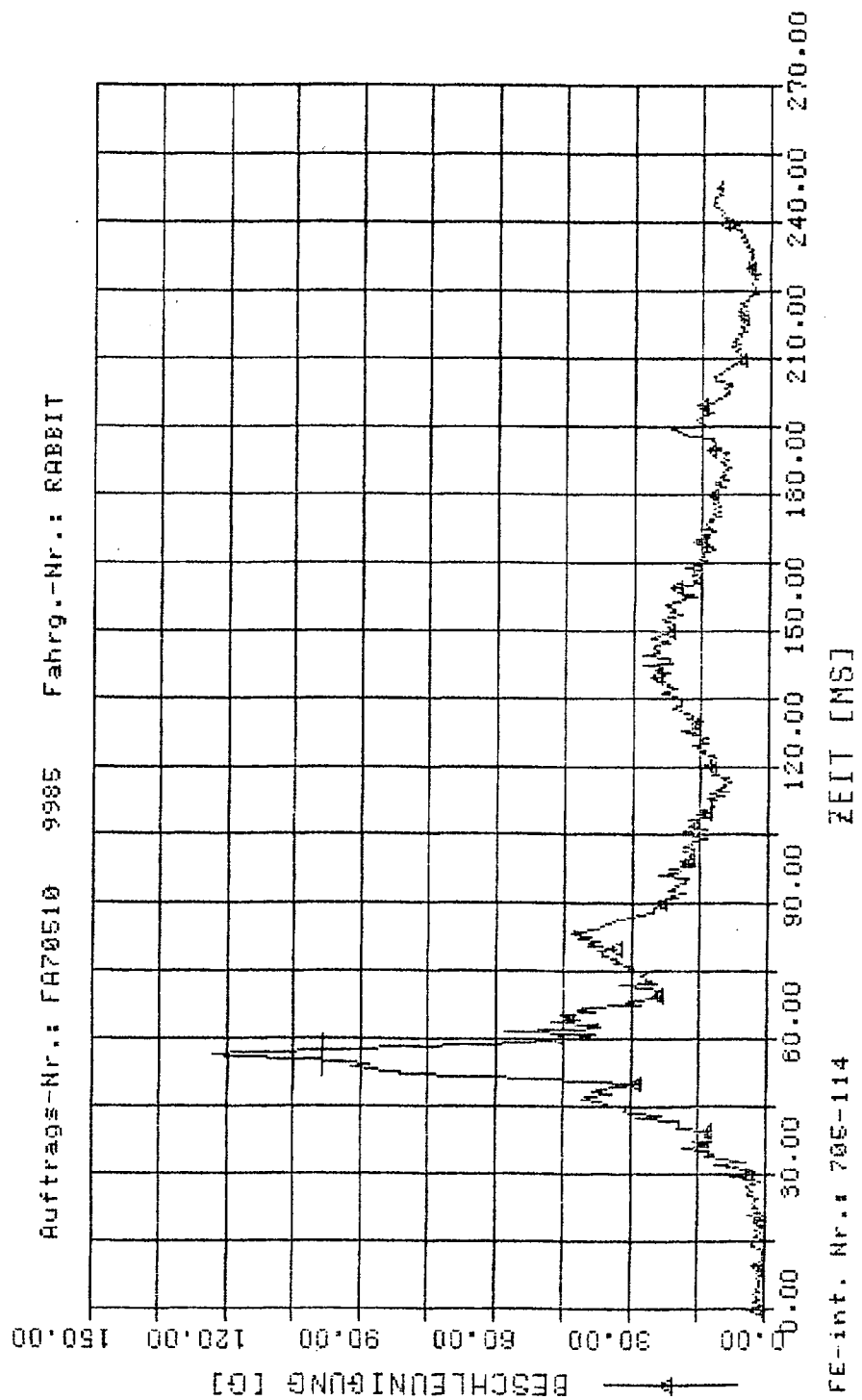
Mess-Stelle	UP	ber.	Extremum	t	3MS
SPK1Z	B	BE g	-6.560	Extr.	207.00
					0.00



B.2 Dummy Test Response
B.2.1 Driver

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

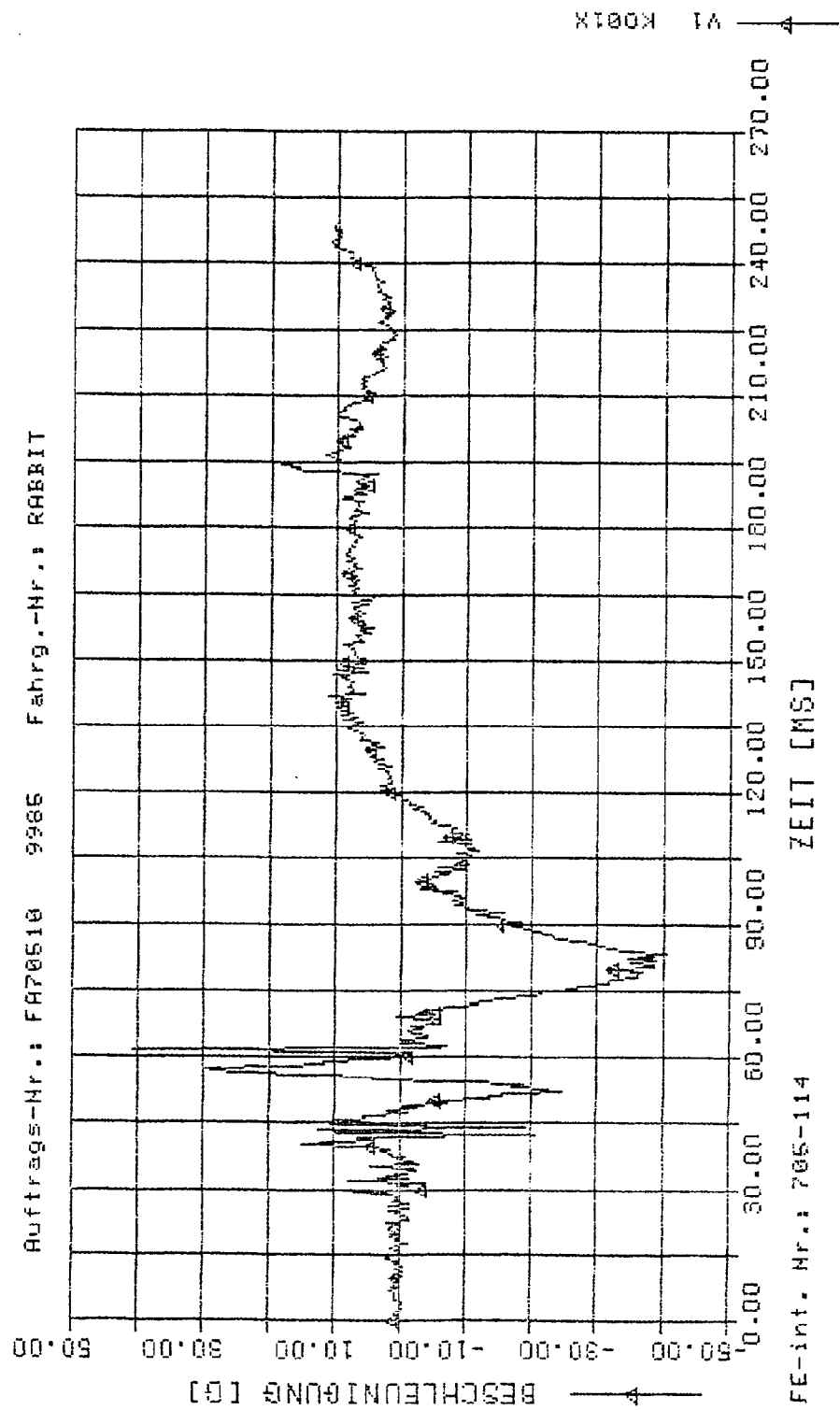
Mess-Stelle	UP	ber.	Extremum	t	3MS
K001	V1	BE g	125.282	Extr.	56.40 87.90



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

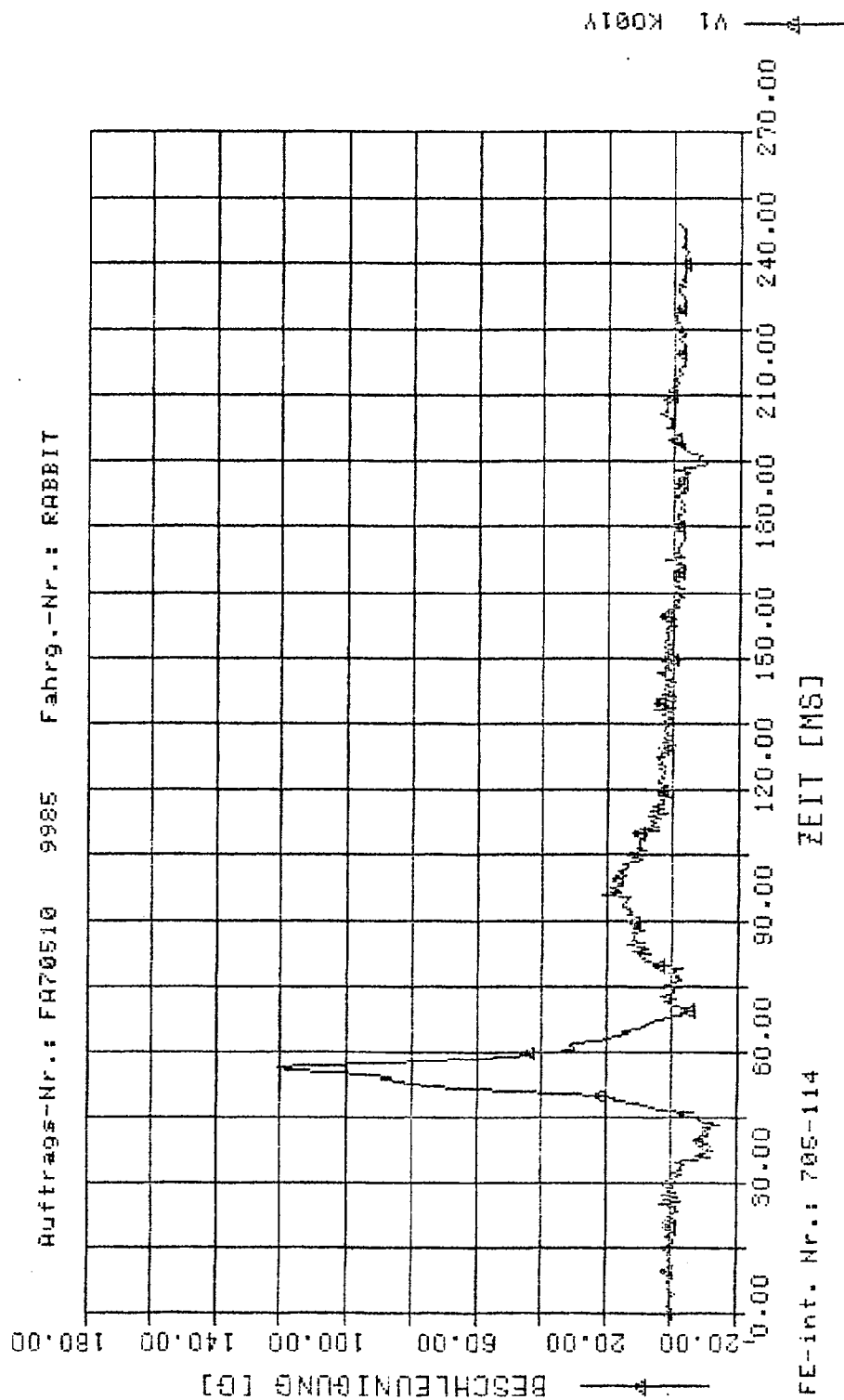
Mess-Stelle	UP	ber.	Extremum	t	3MS
K001X	V1	BE 9	54.780	42.40	17.84

Auftrags-Nr.: FA70610 9986 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 - Versuchs-Nr.: 9985

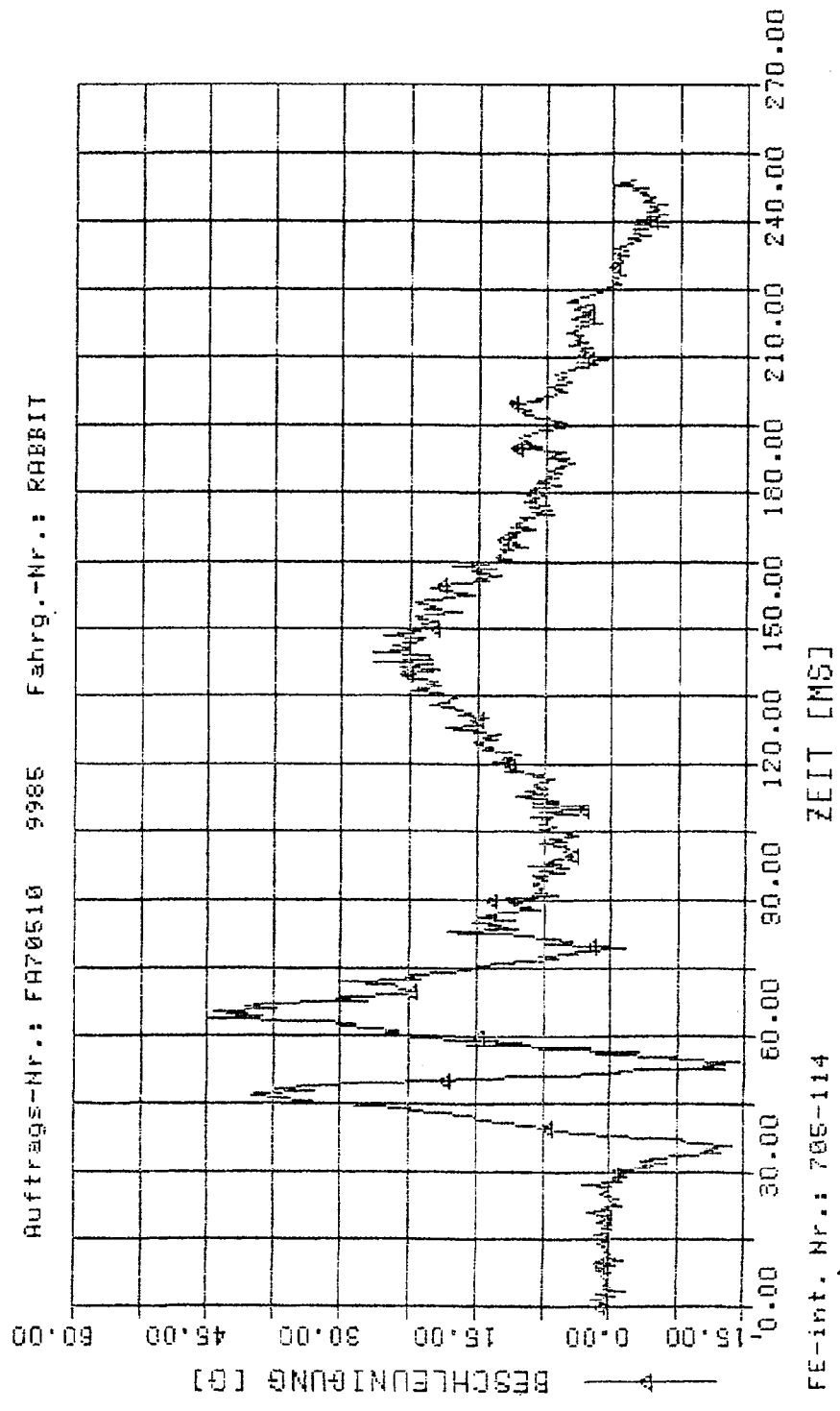
Mess-Stelle	UP	ber.	Extremum	t	3MS
K001Y	V1	BE g	122.037	Extr.	56.40 86.28



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

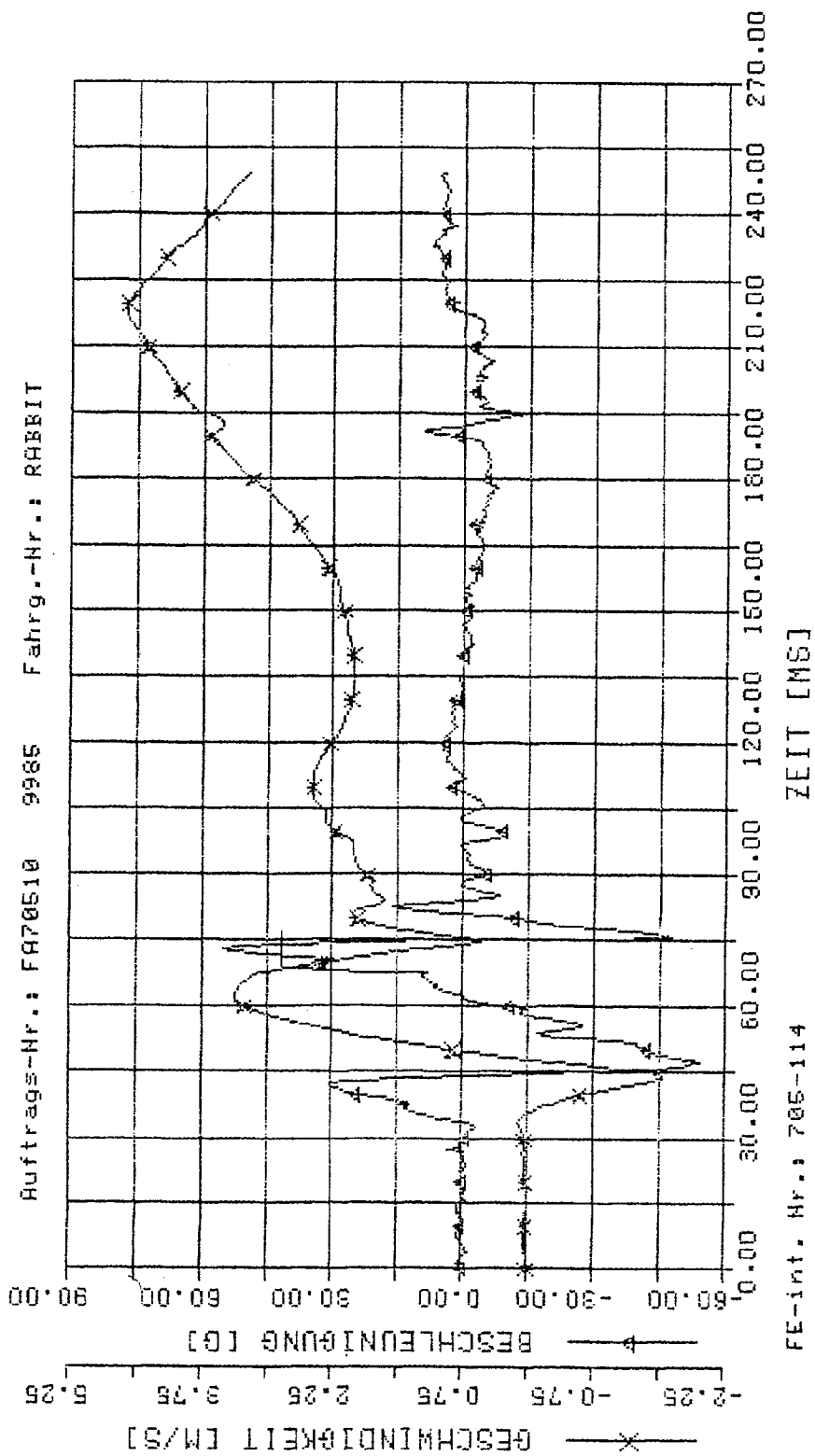
Mess-Stelle	UP	ber.	Extremum	t
K001Z	V1	Groesse	44.525	Extr.
		BE g		64.00
				38.79

Auftrags-Nr.: FA70510 9985 Fahrg.-Nr.: RABBIT



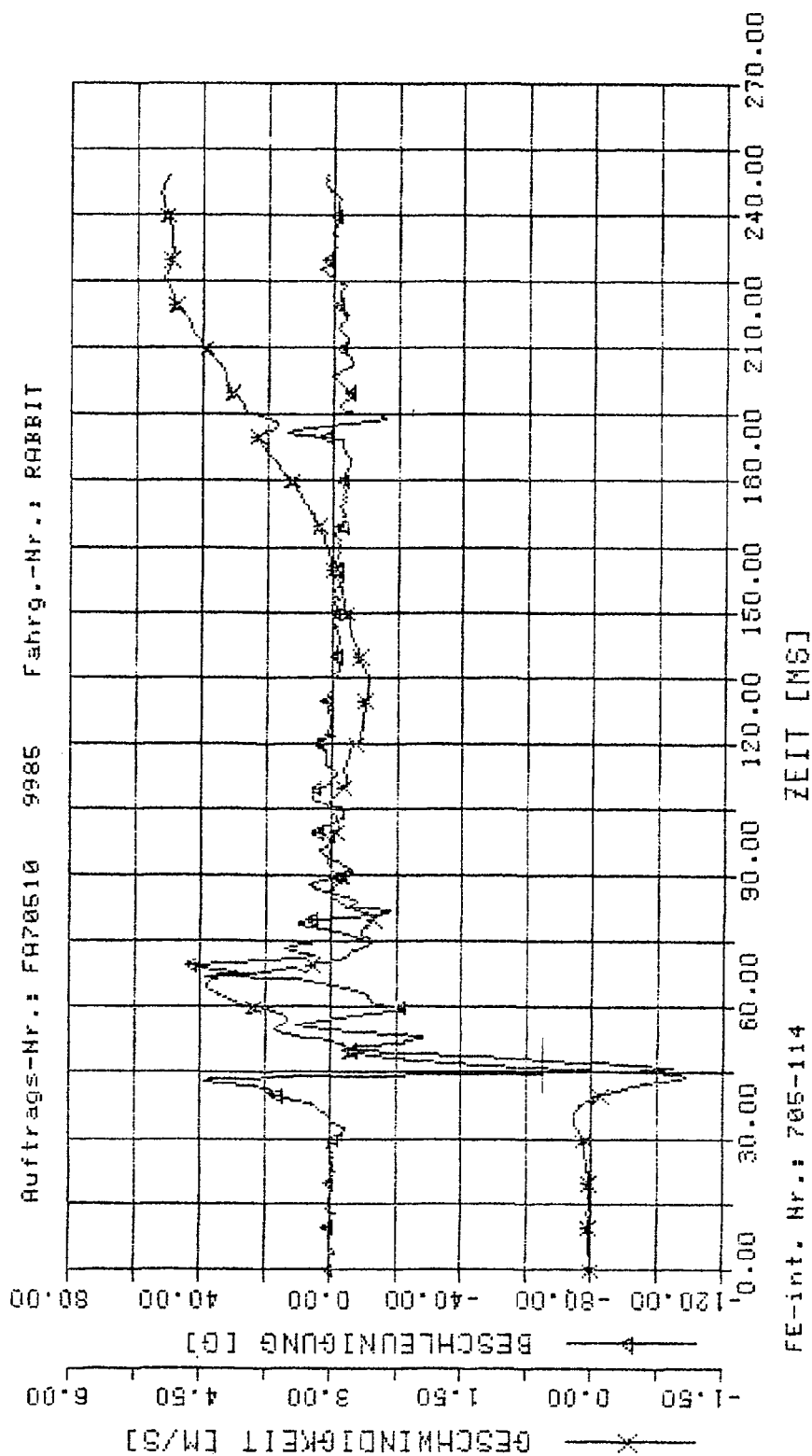
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
B001X	V1	BE g	55.050	73.00	0.00
B001X	V1	GE m/s	4.639	218.00	0.00



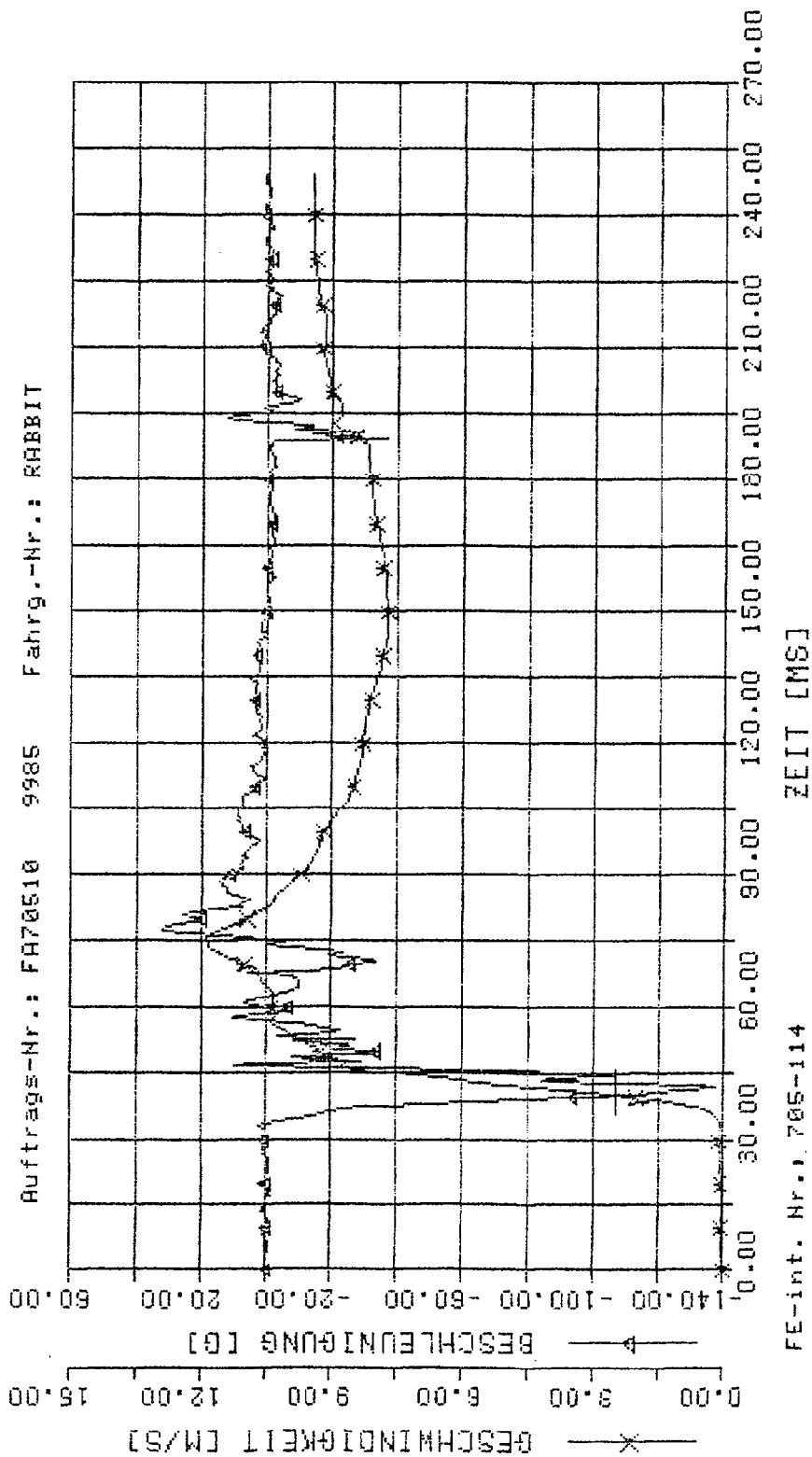
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
BU01X	VI	BE	-105.035	46.50	0.00
BU01X	VI	GE	4.964	245.00	0.00



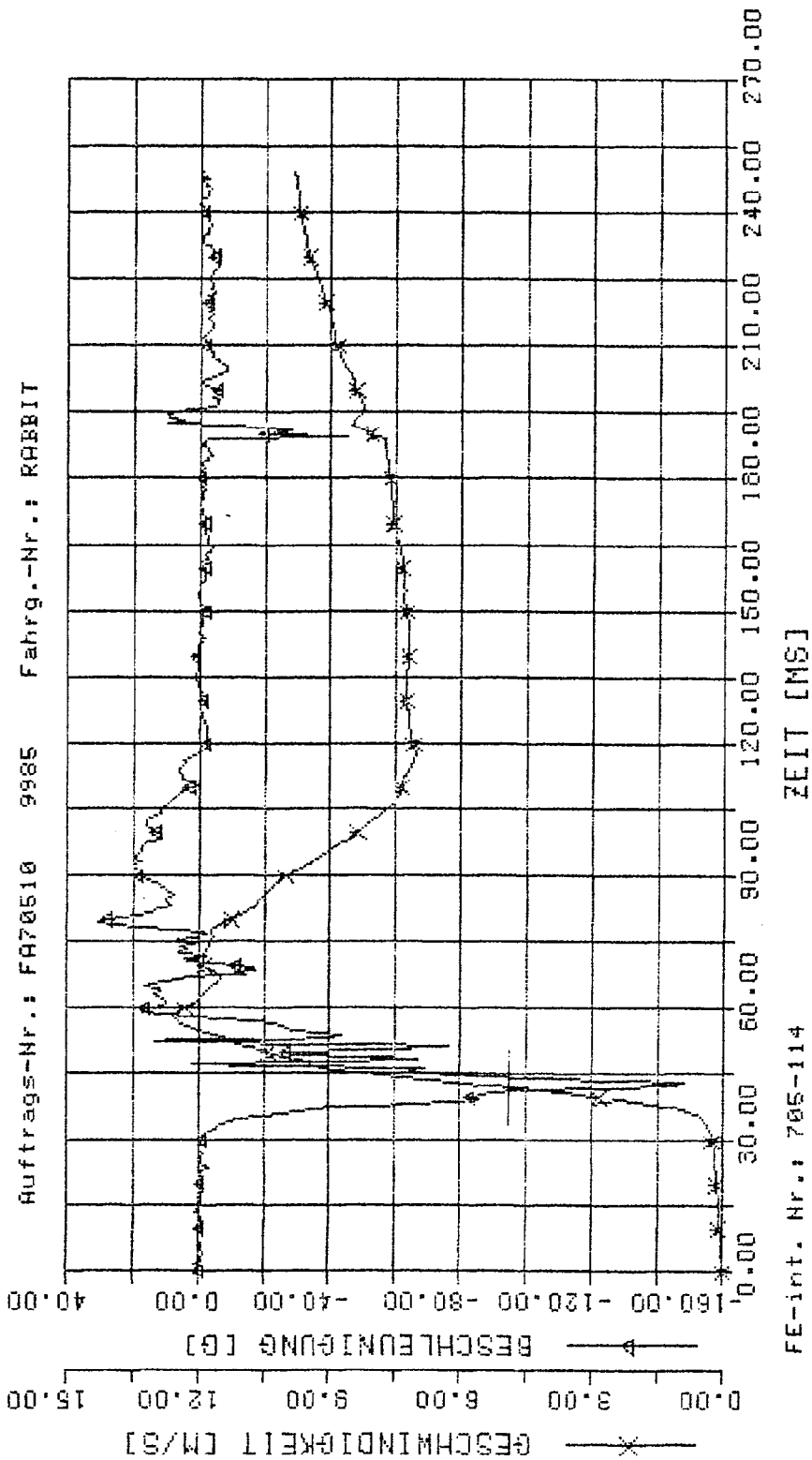
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
L001Y	V1	Groesse	-137.219	Extr.	0.00
L001Y	Vf	GE m/s	11.895	75.50	0.00



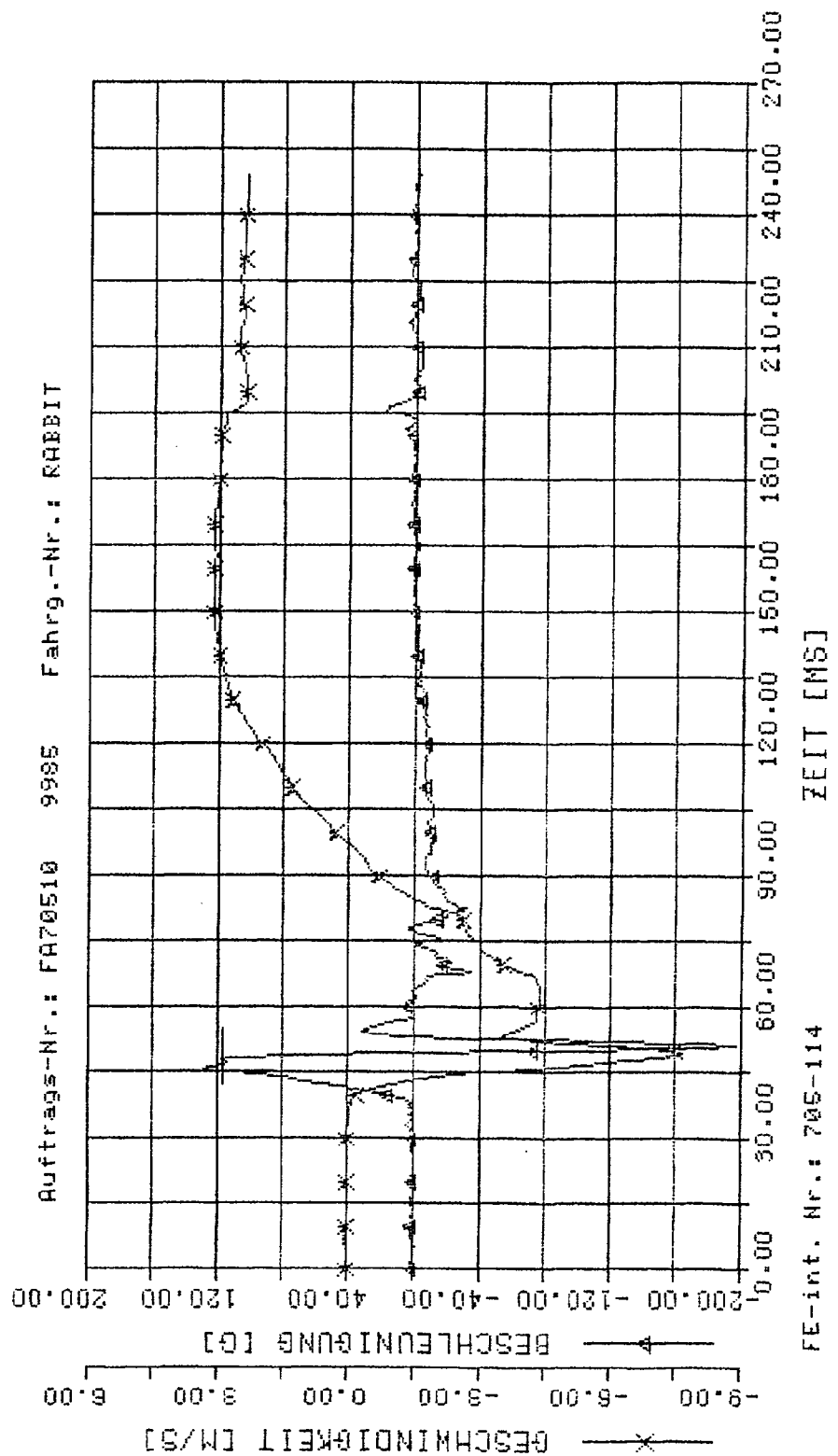
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
LU01Y	V1	BE	-140.219	43.00	0.00
LU01Y	V1	GE	12.553	58.00	0.00



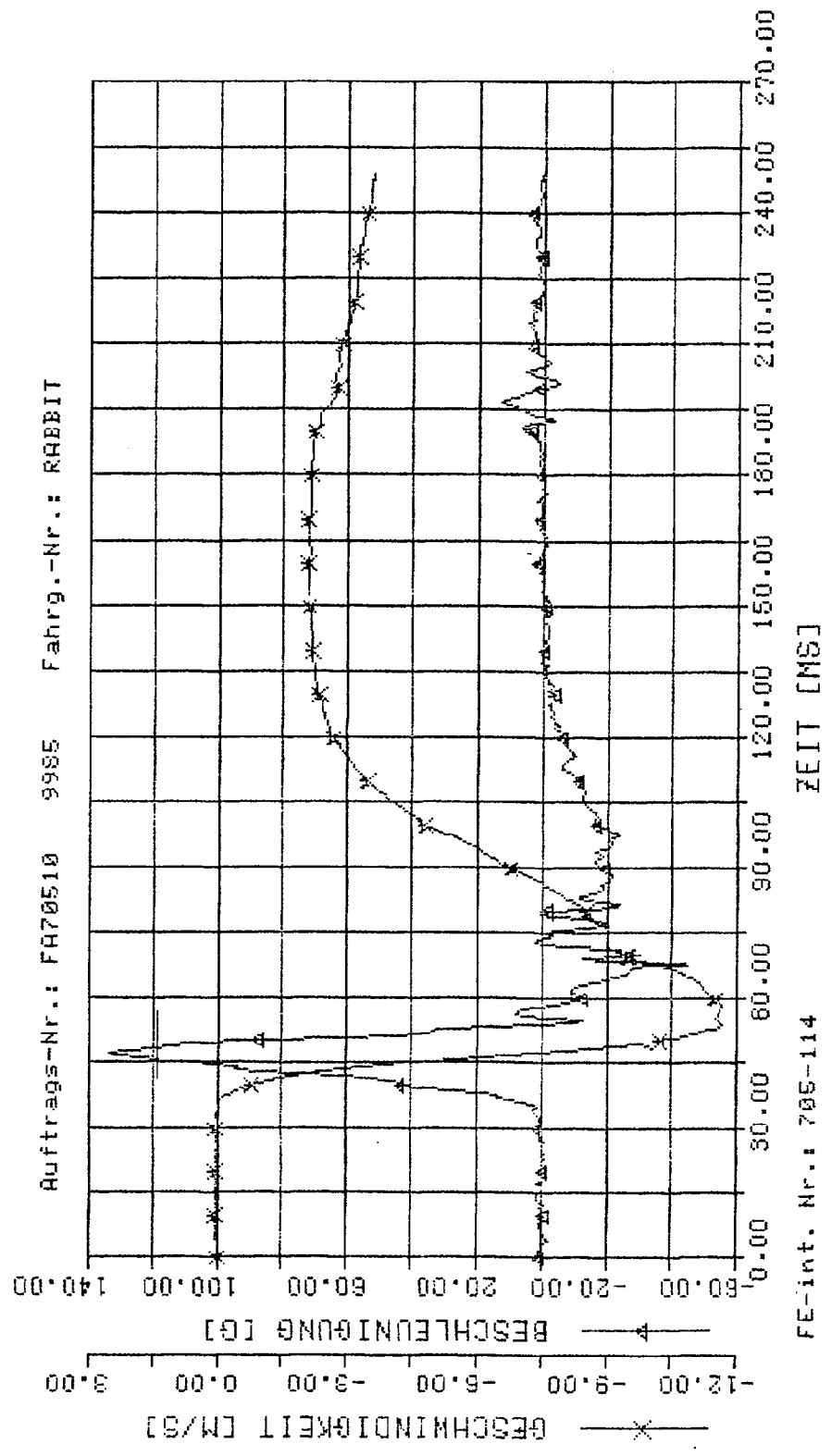
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
RO01Y	V1	BE g	-196.750	51.00	0.00
RO01Y	V1	GE m/s	-7.679	49.50	0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

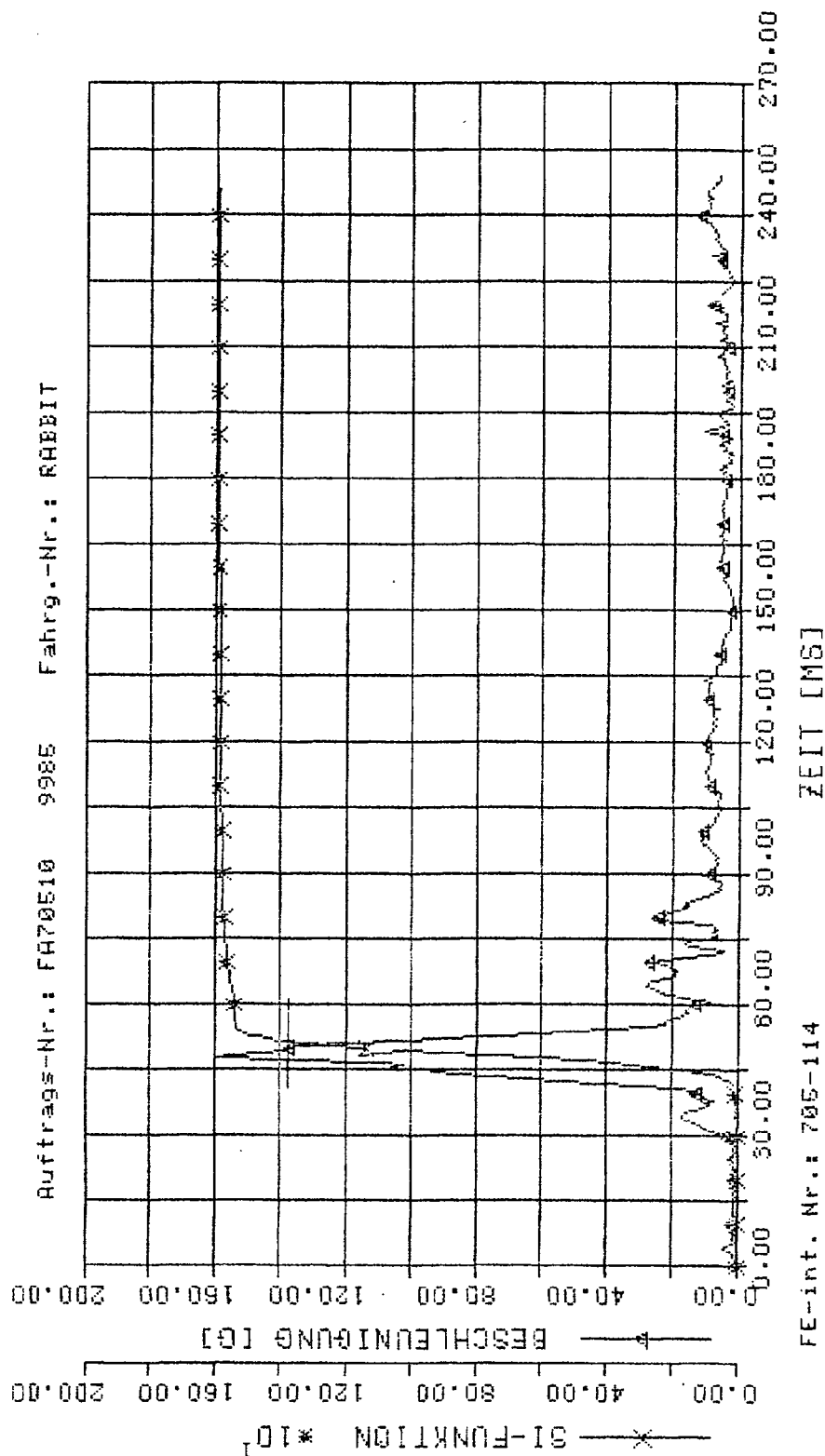
Mess-Stelle	Up	ber.	Extremum	t	3MS
RU01Y	V1	BE g	133.006	Extr.	0.00
RU01Y	V1	GE m/s	-11.683	58.00	0.00



FE-int. Nr.: 705-114

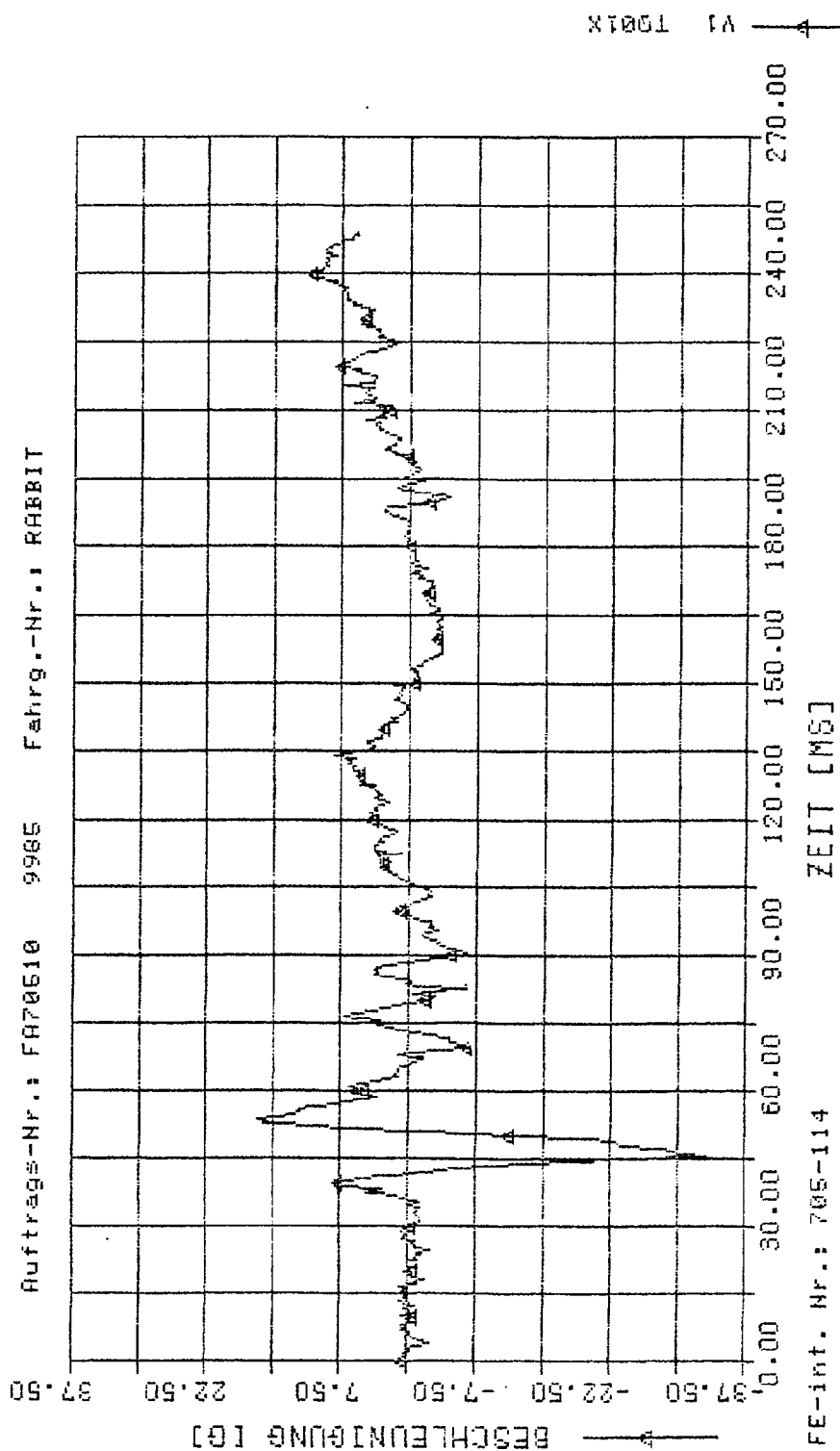
- Kenn-Merke: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
T001		Groesse	158.765	Extr.	0.00
T001	V1	BE g	1594.826	250.00	0.00
	V1	SI			



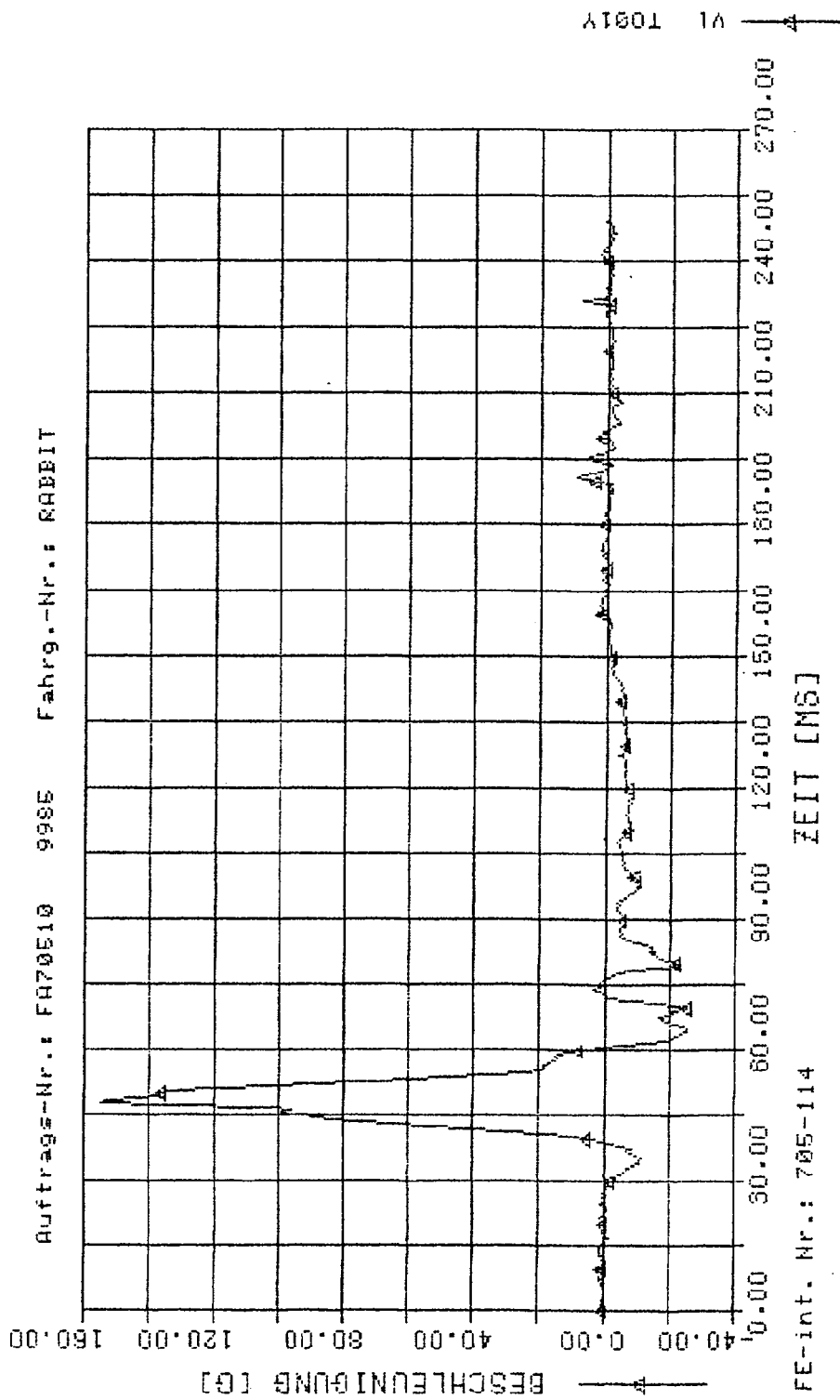
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
T001X	V1	EE	g	-33.381	45.00
					0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

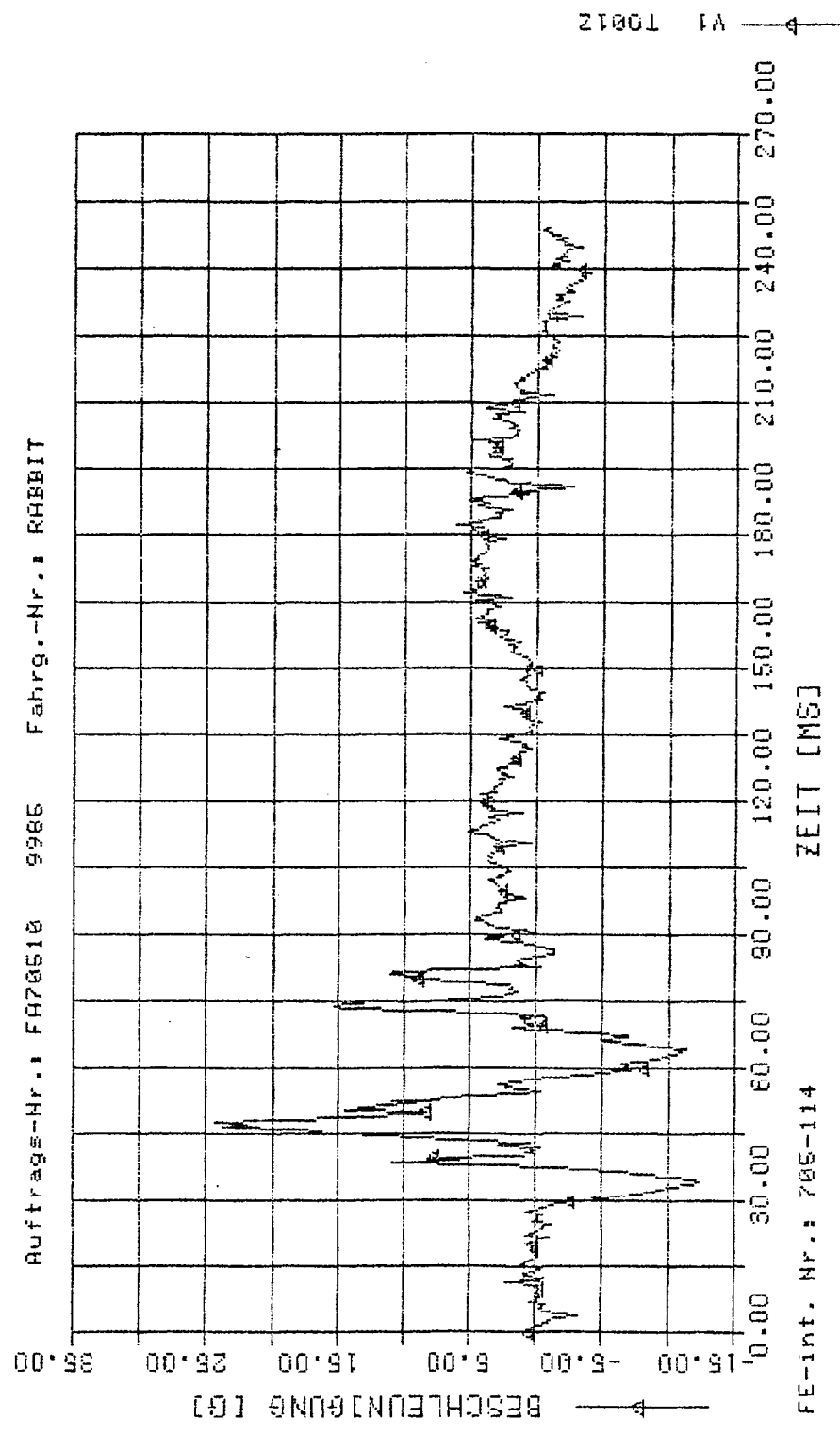
Mass-Stelle	UP	ber.	Extremum	t	3MS
TD01Y	V1	BE g	155.084	48.00	0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
		Groesse		Extr.	
T001Z	V1	BE g	24.285	48.00	0.00

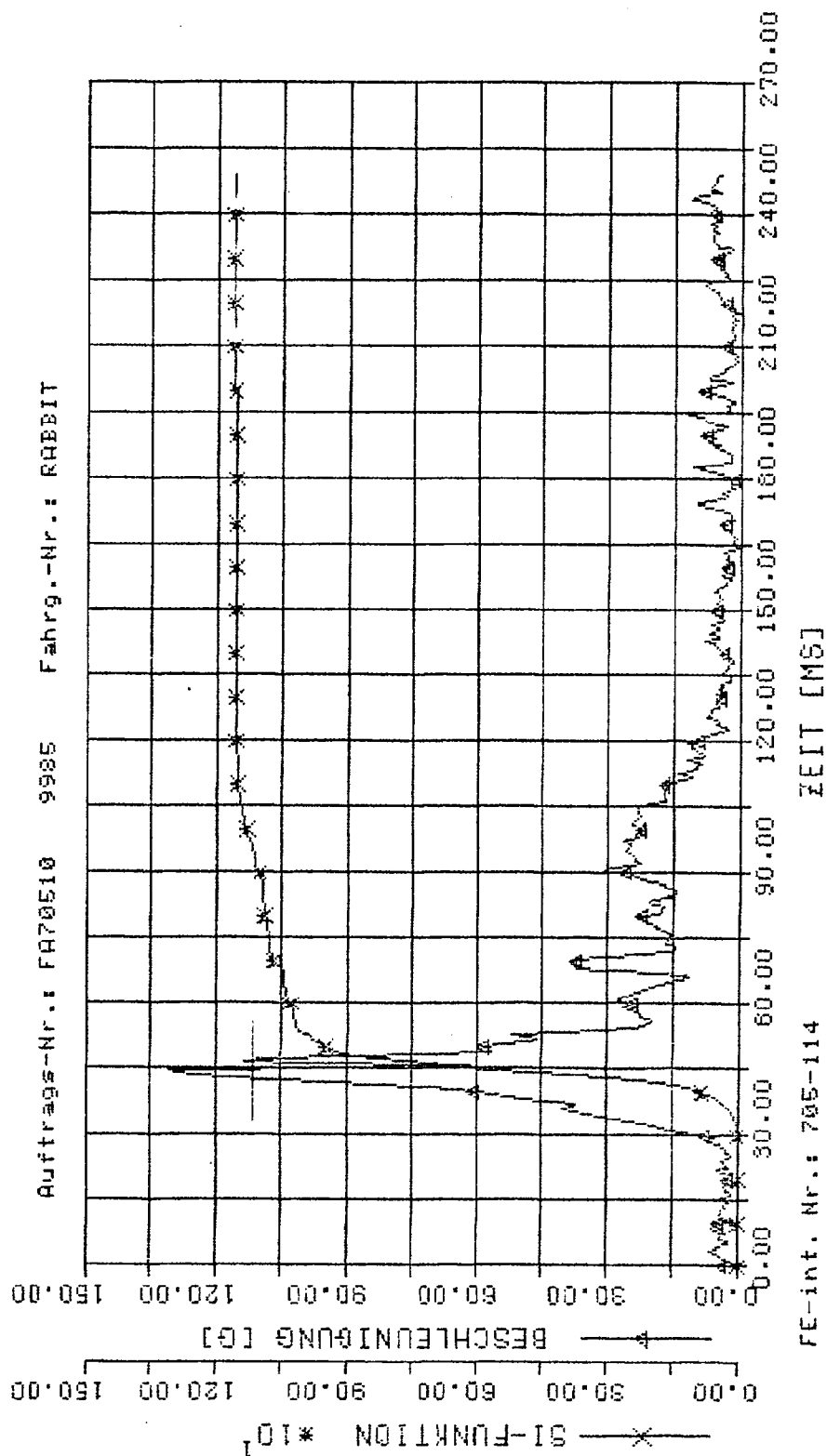
Auftrags-Nr.: FA70510 9985 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Groesse	Extremum	t	Extr.	3MS
TU01	V1	BE	g	130.534	44.50	0.00	
TU03	V1	SI		1163.389	250.00	0.00	

Auftrags-Nr.: FA70510 9985 Fahrg.-Nr.: R08BIT

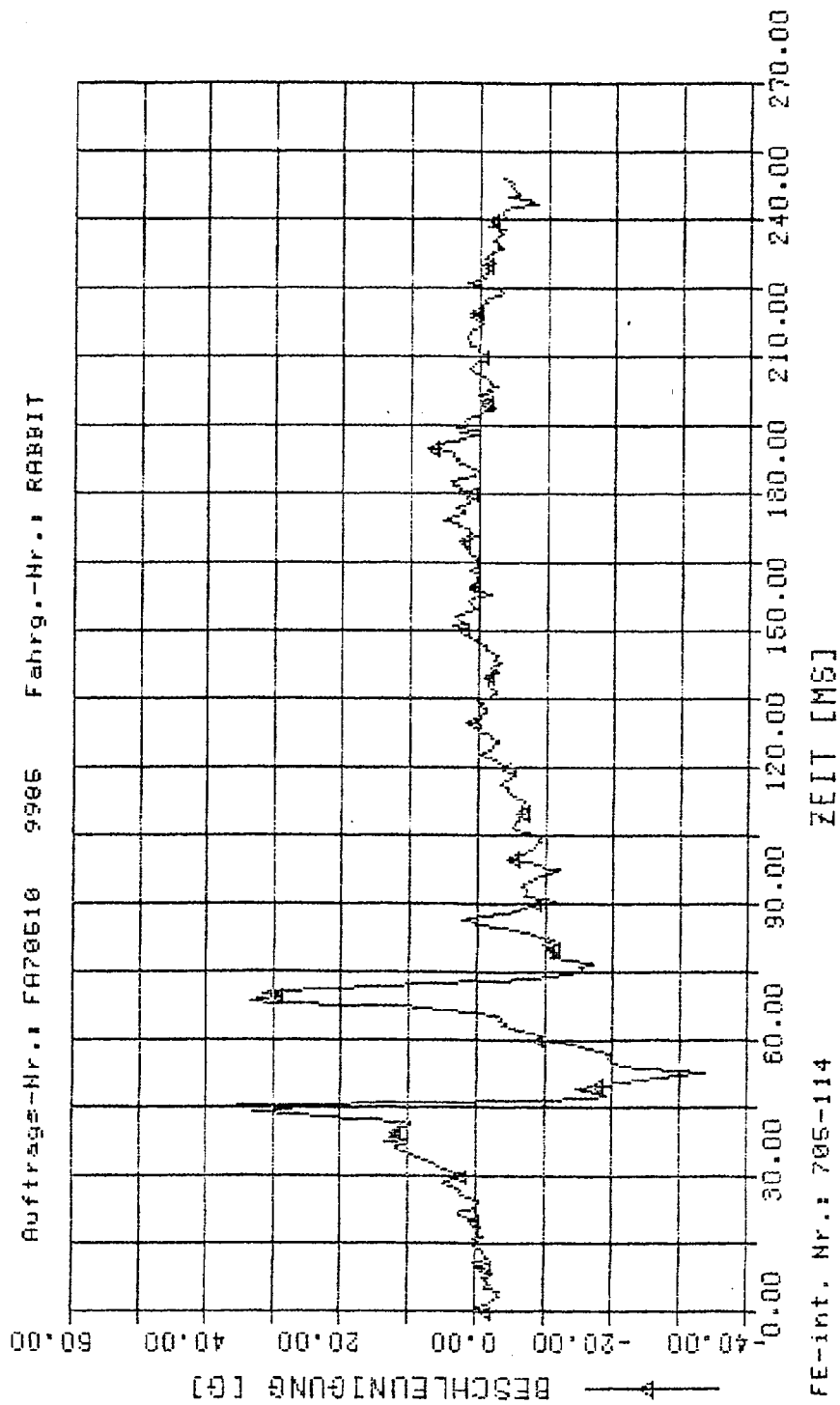


FE-int. Nr.: 705-114

- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

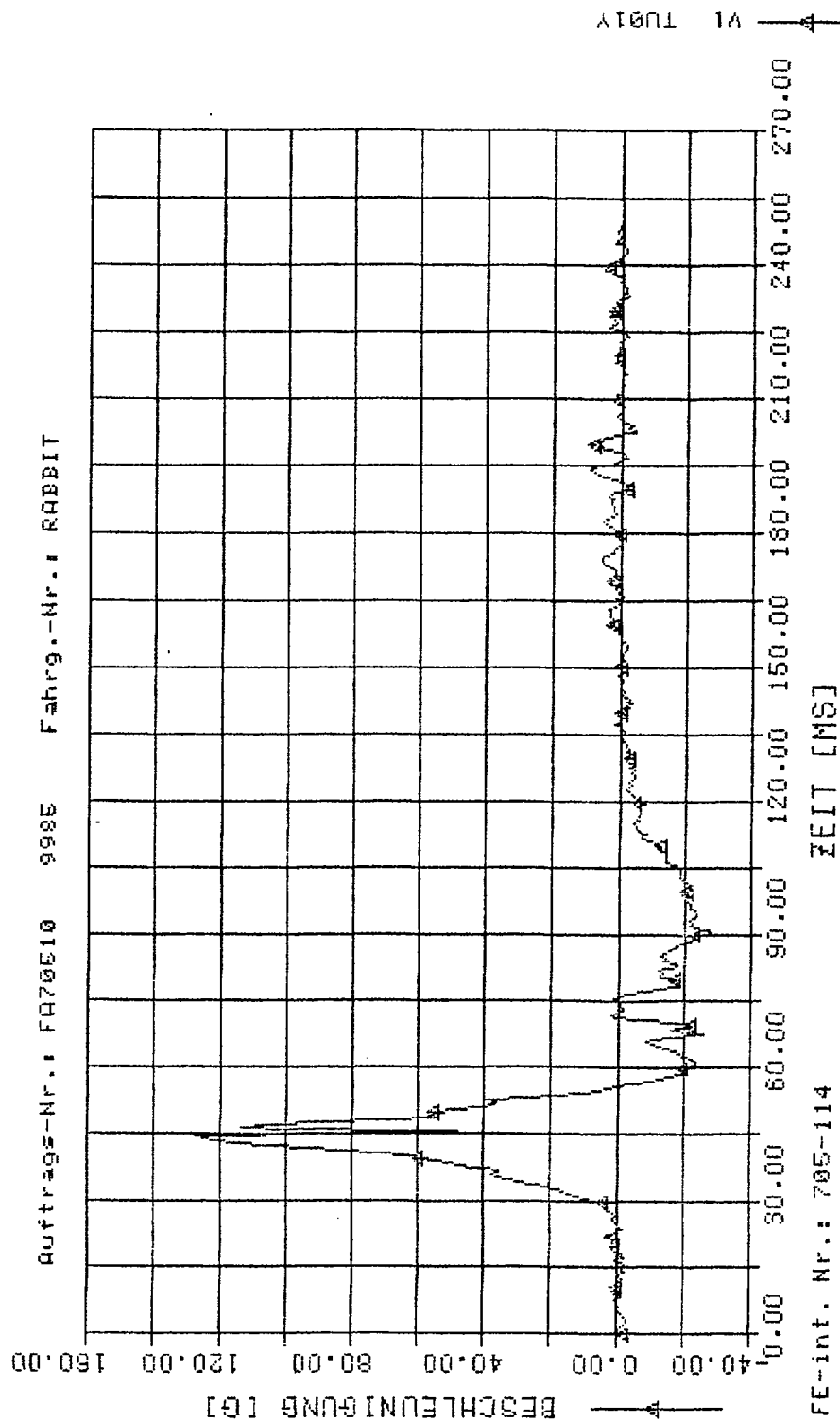
Mess-Stelle UP ber. Extremum t 3MS
 TU01X V1 BE g 43.265 45.50 0.00

Auftrags-Nr.: FA70510 9985 Fahrg.-Nr.: RABBIT



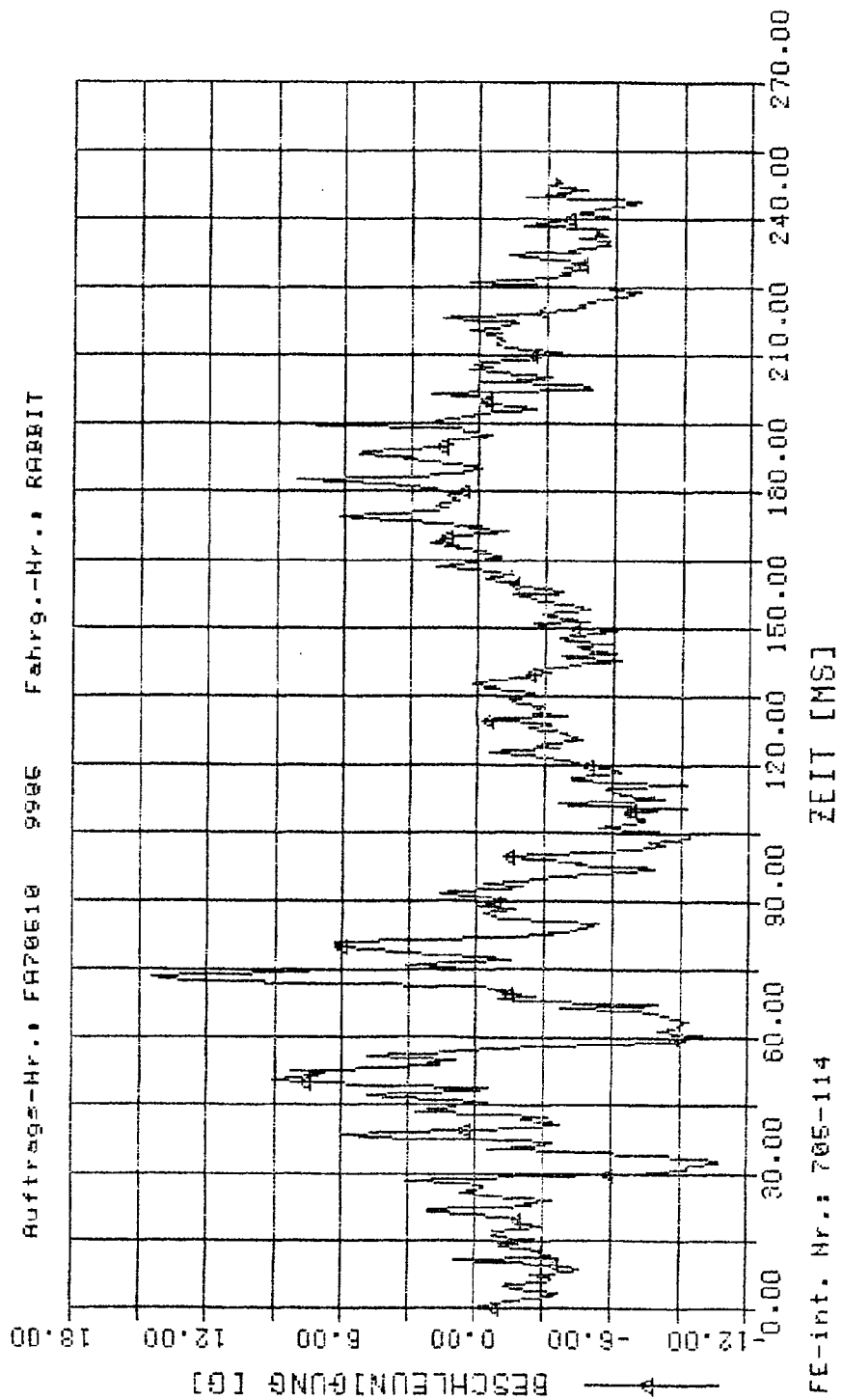
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
TU01Y	V1	BE g	127.672	44.50	0.00



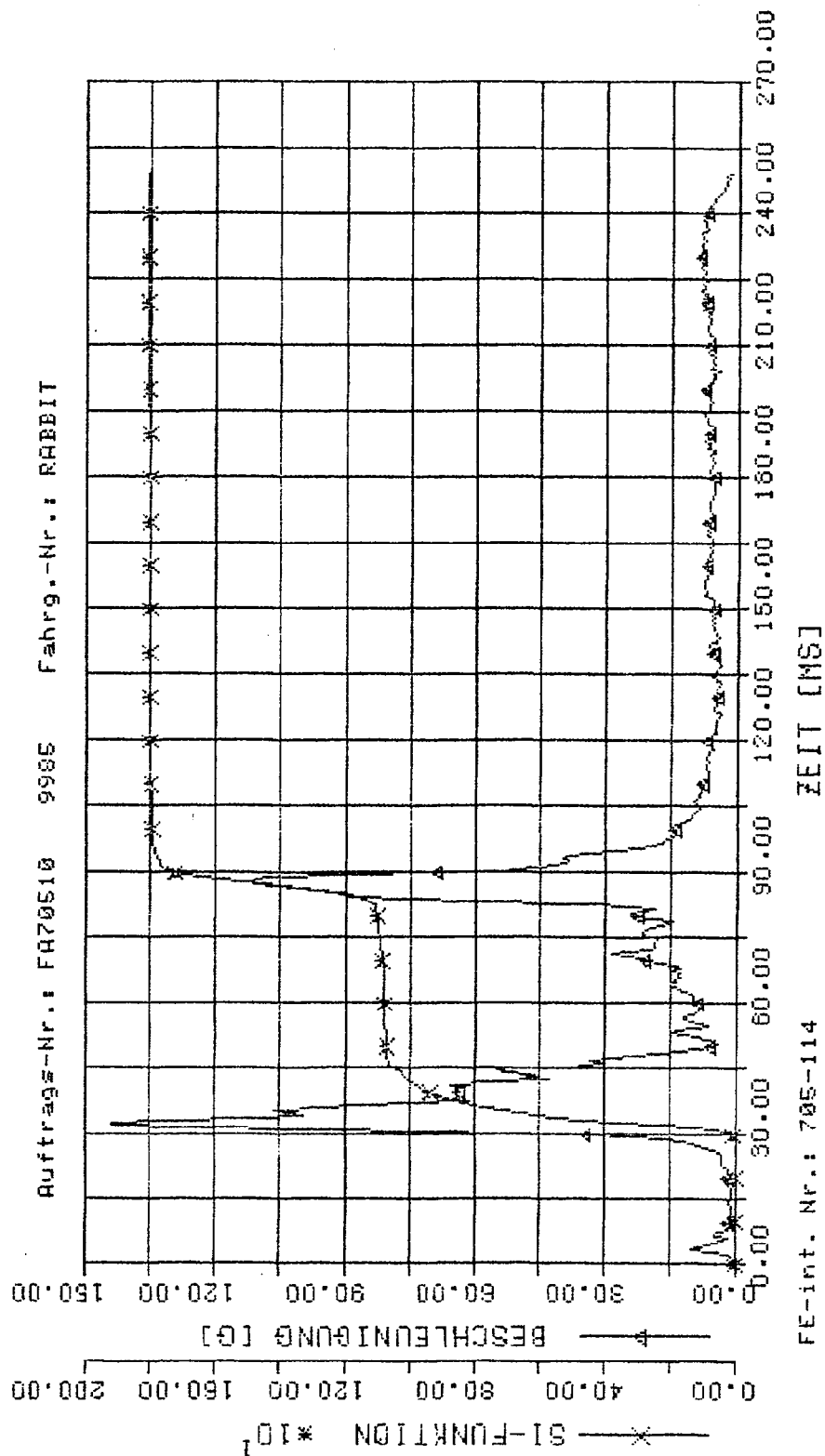
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
TU01Z	V1	BE g	14.393	Extr.	73.50
					0.00



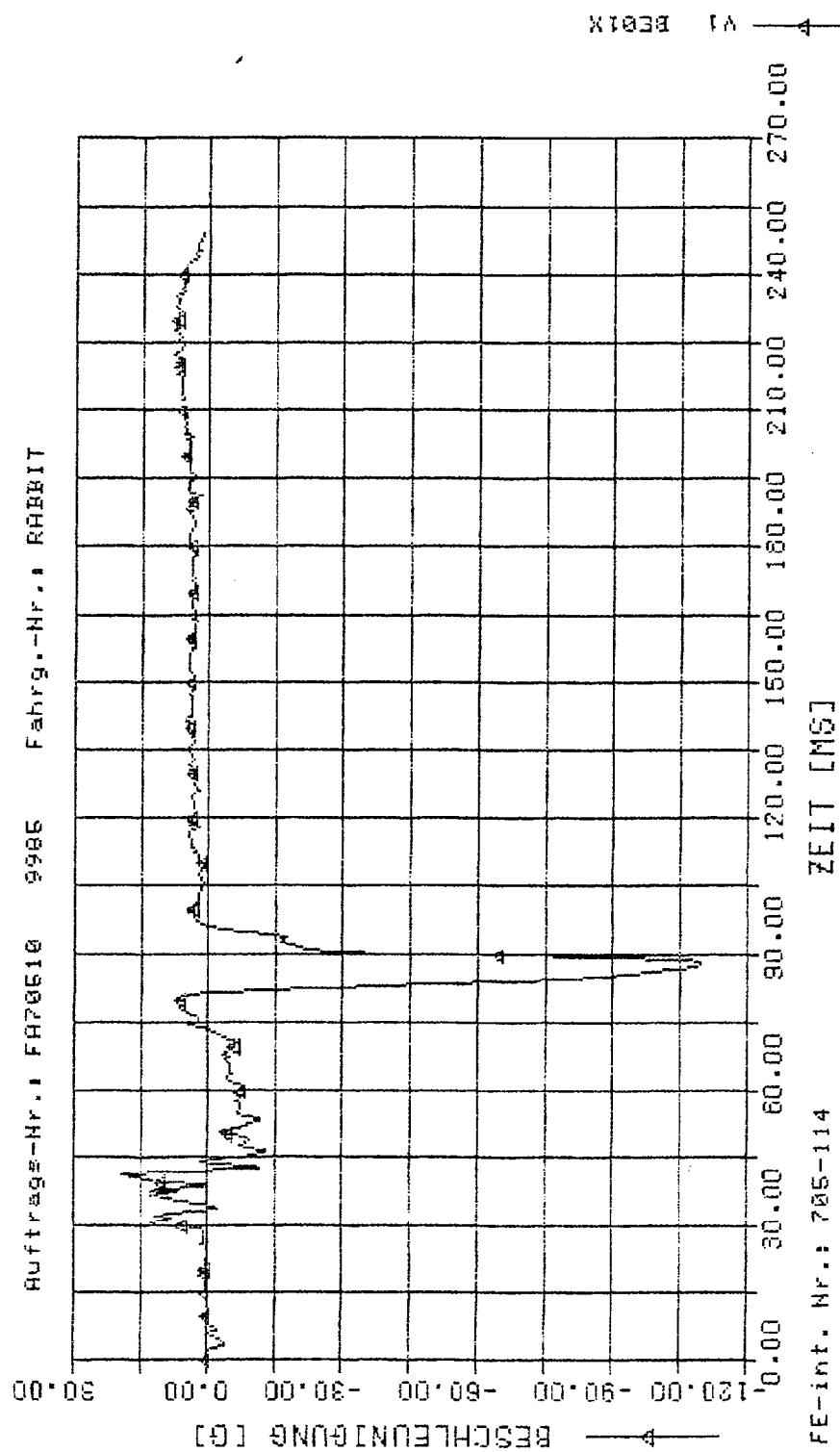
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
BE01	VI	BE g	143.584	33.00	110.29
BE01	VI	SI	1807.333	250.00	0.00



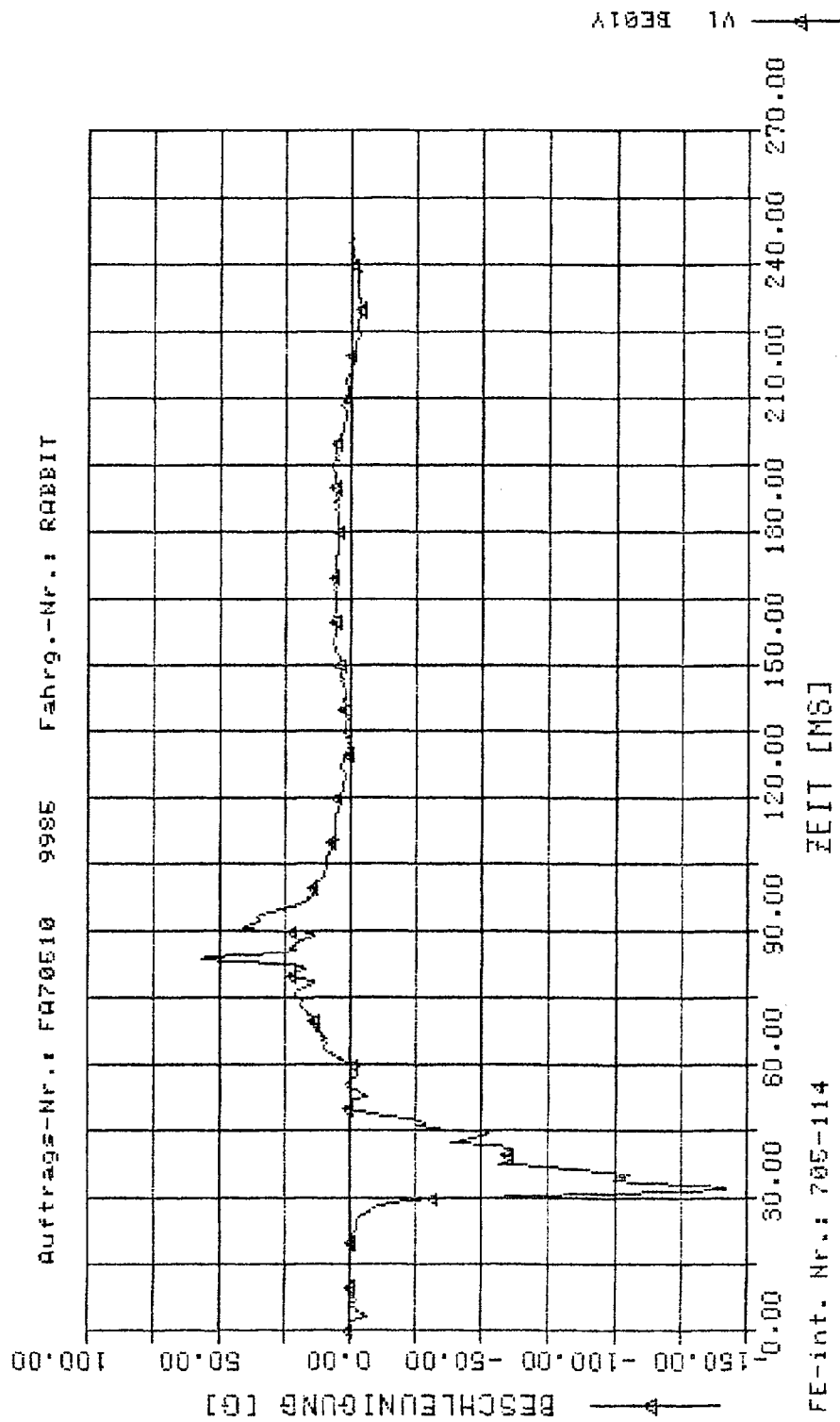
FE-int. Nr.: 705-114

Mess-Stelle	UP	ber.	Extremum	r	3MS
		Groesse		Extr.	
BE01X	V1	BE g	-109.347	38.00	11.41



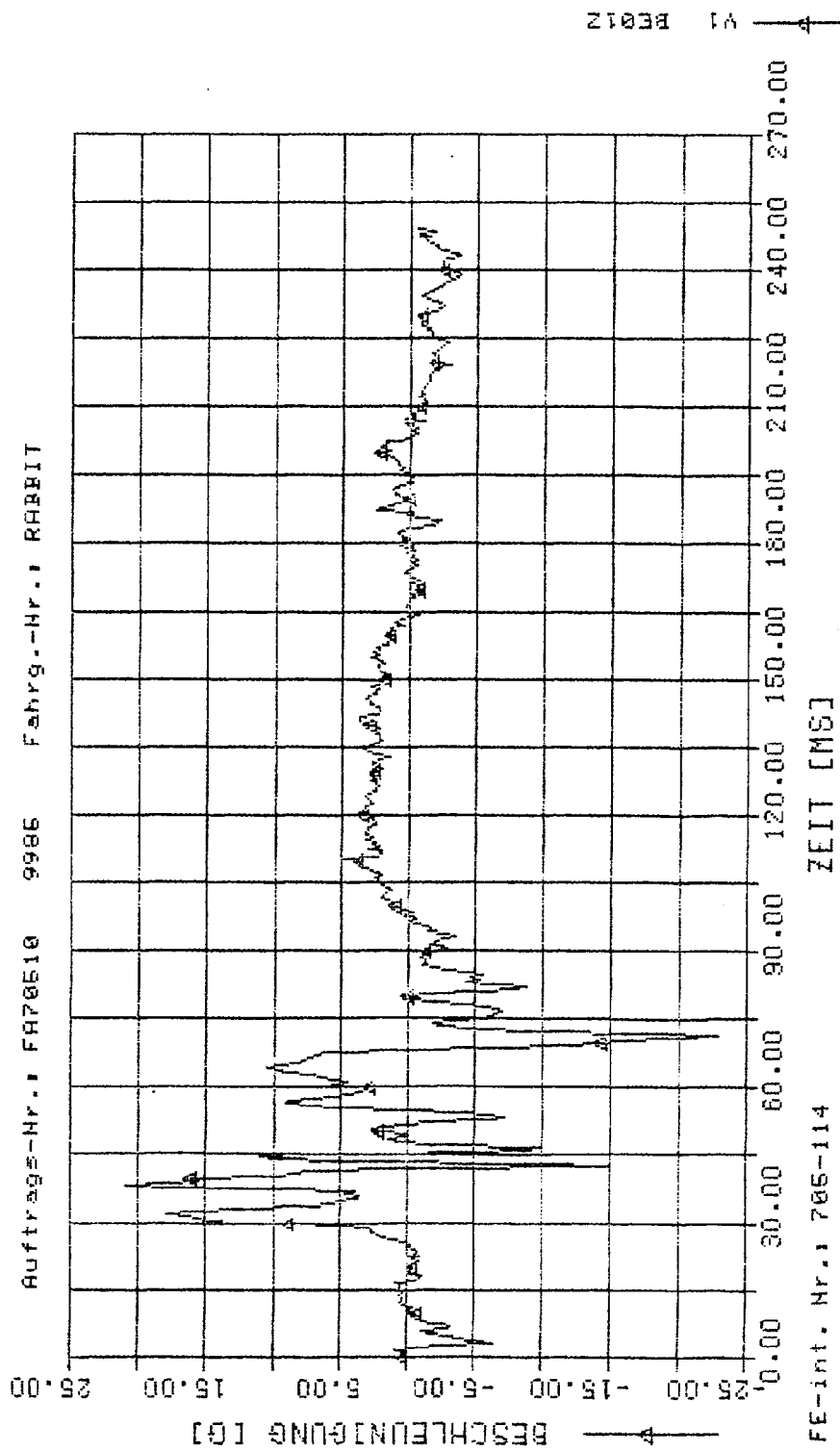
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

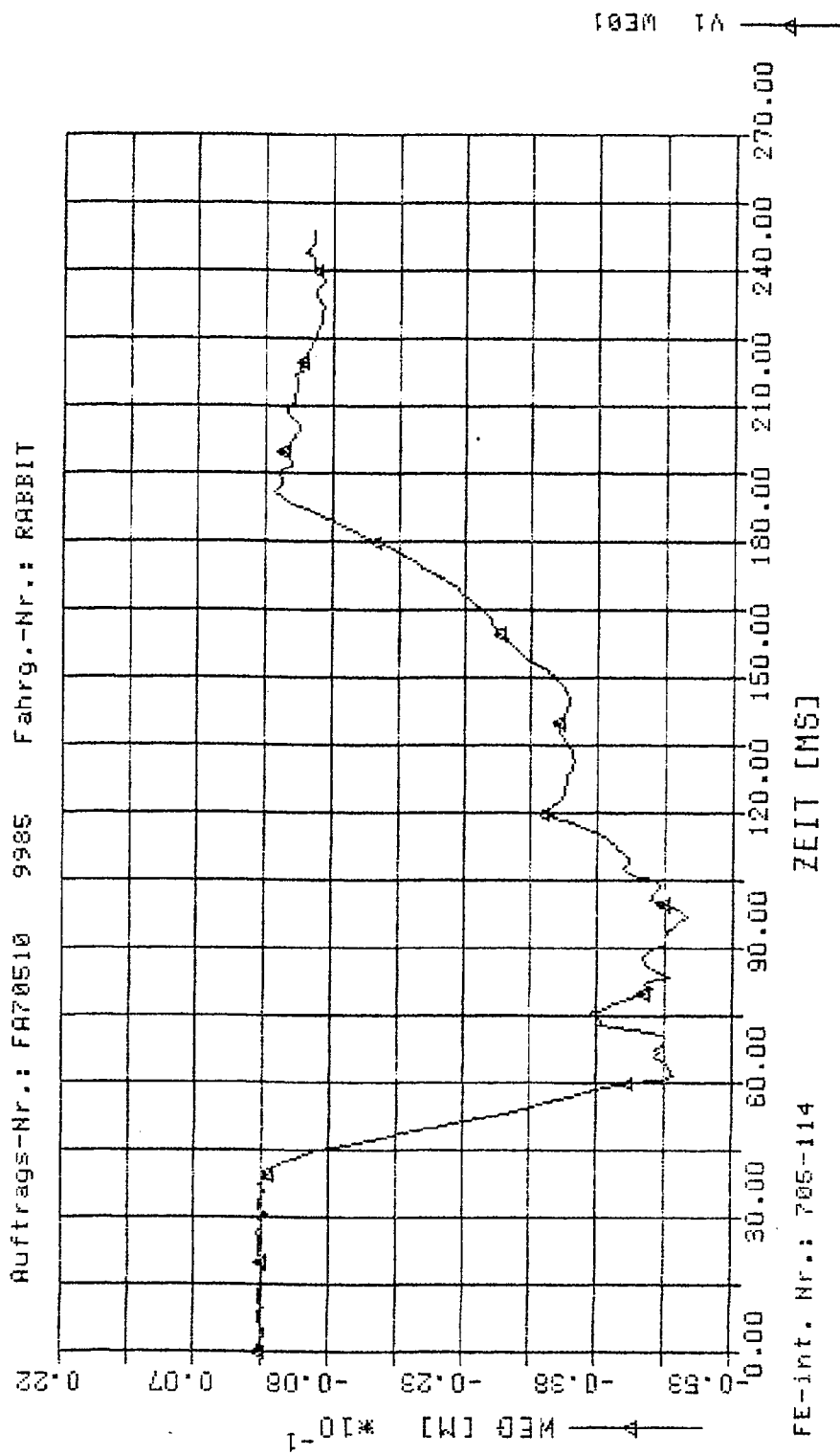
Mess-Stelle	UP	ber.	Extremum	t	3MS
BE01Y	V1	BE g	-142.500	Extr.	33.00
					35.94



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
BE01Z	V1	BE g	-22.874	Extr.	71.50
					15.84

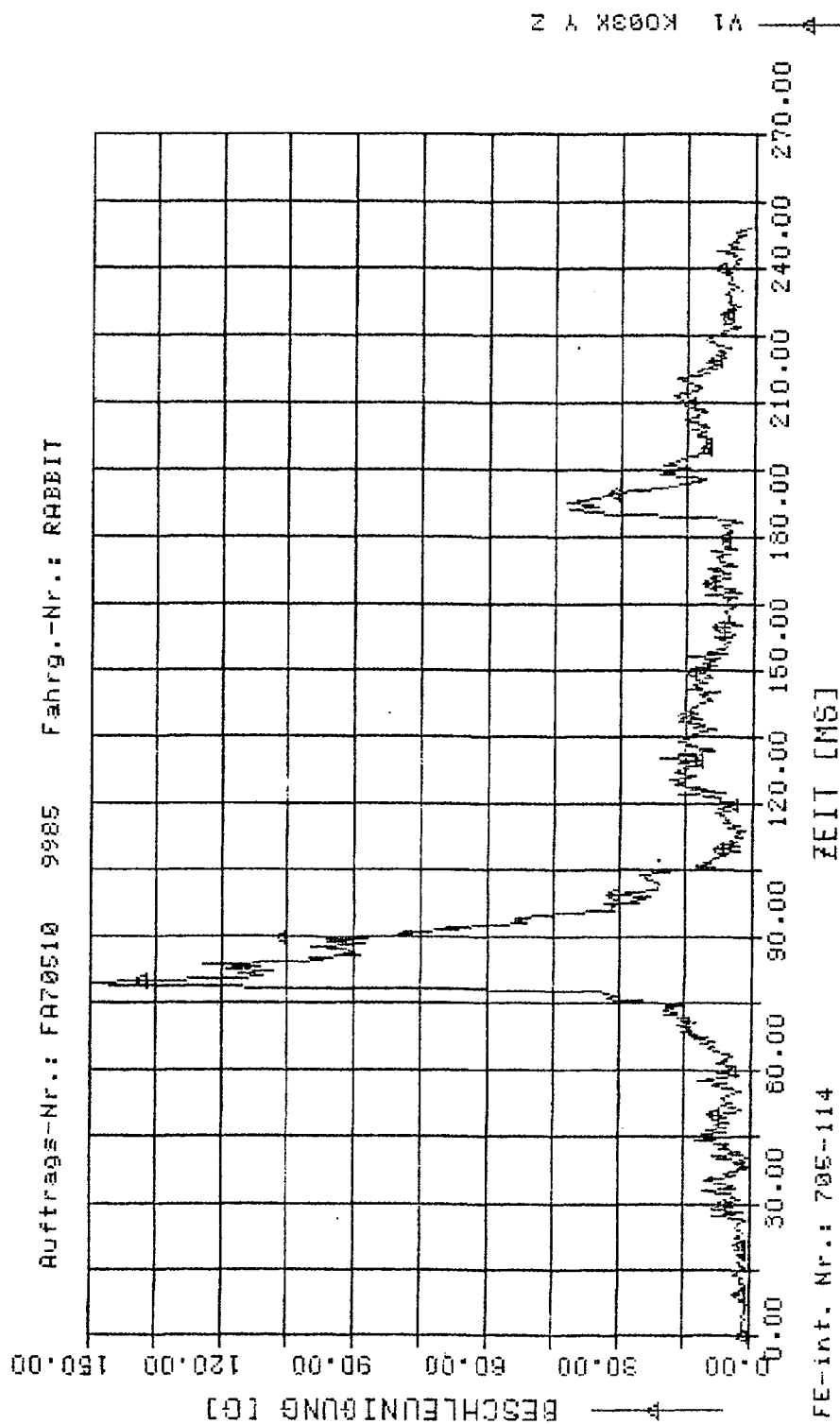




B.2.2 Rear Passenger

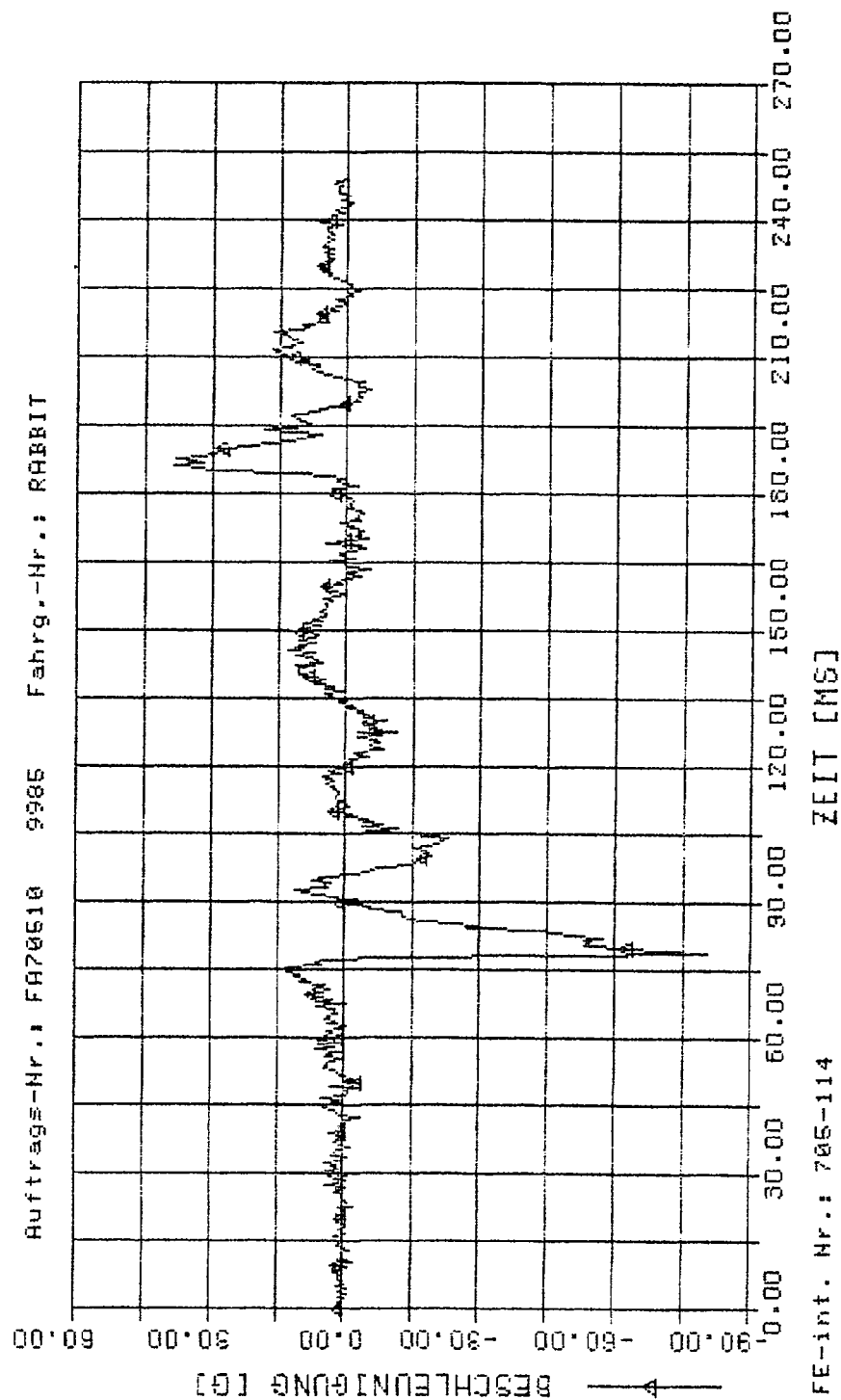
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
K003	V1	BE g	153.904	Extr.	
				79.40	116.48



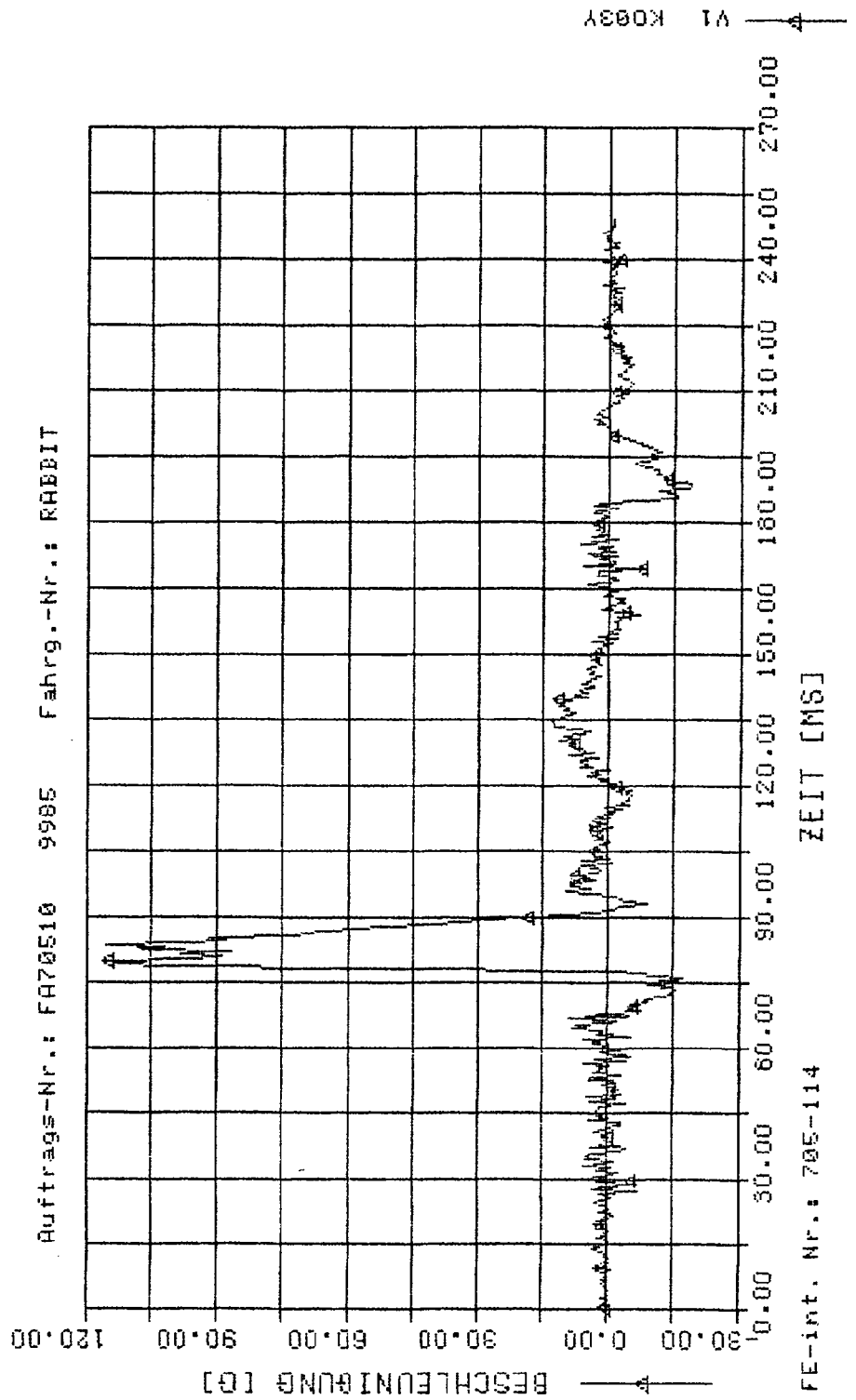
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
K003X	V1	BE	-80.662	79.00	31.50



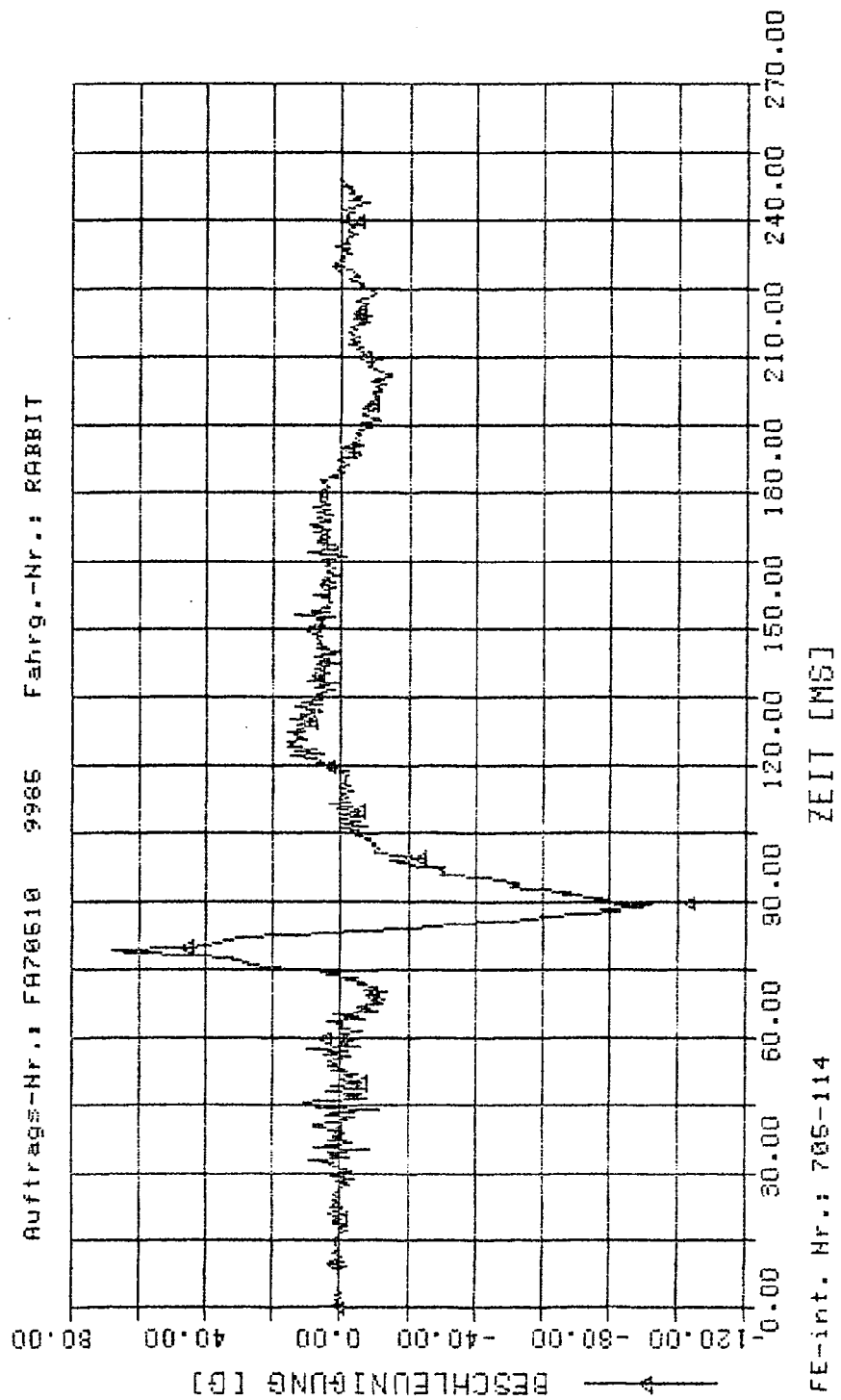
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle UP ber. Extremum t 3MS
K003Y Groesse V1 EE g 122.020 79.40 100.00



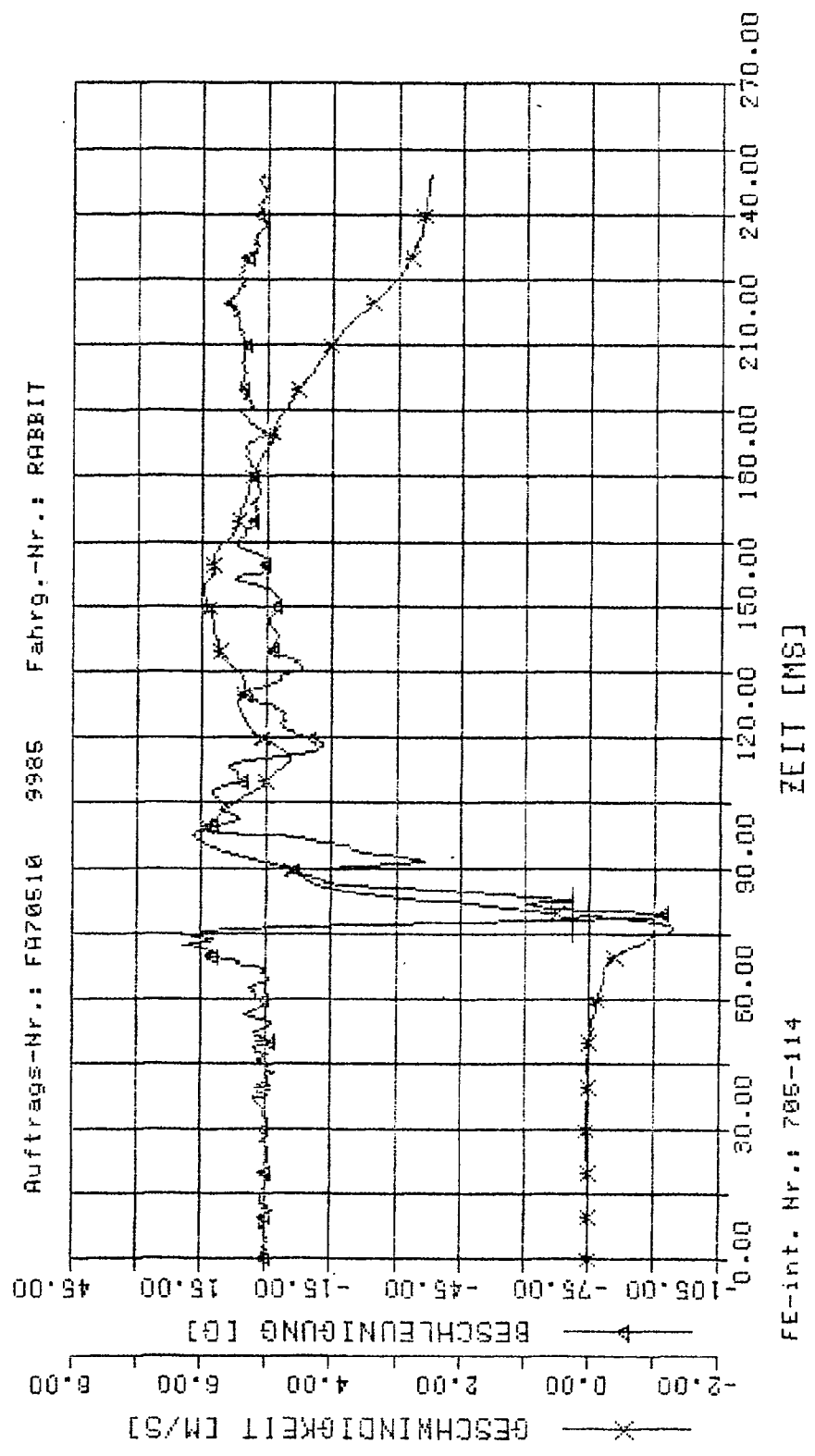
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle UP ber. Extremum t 3MS
K003Z Groesse Extr.
V1 BE g -106.804 90.10 33.54



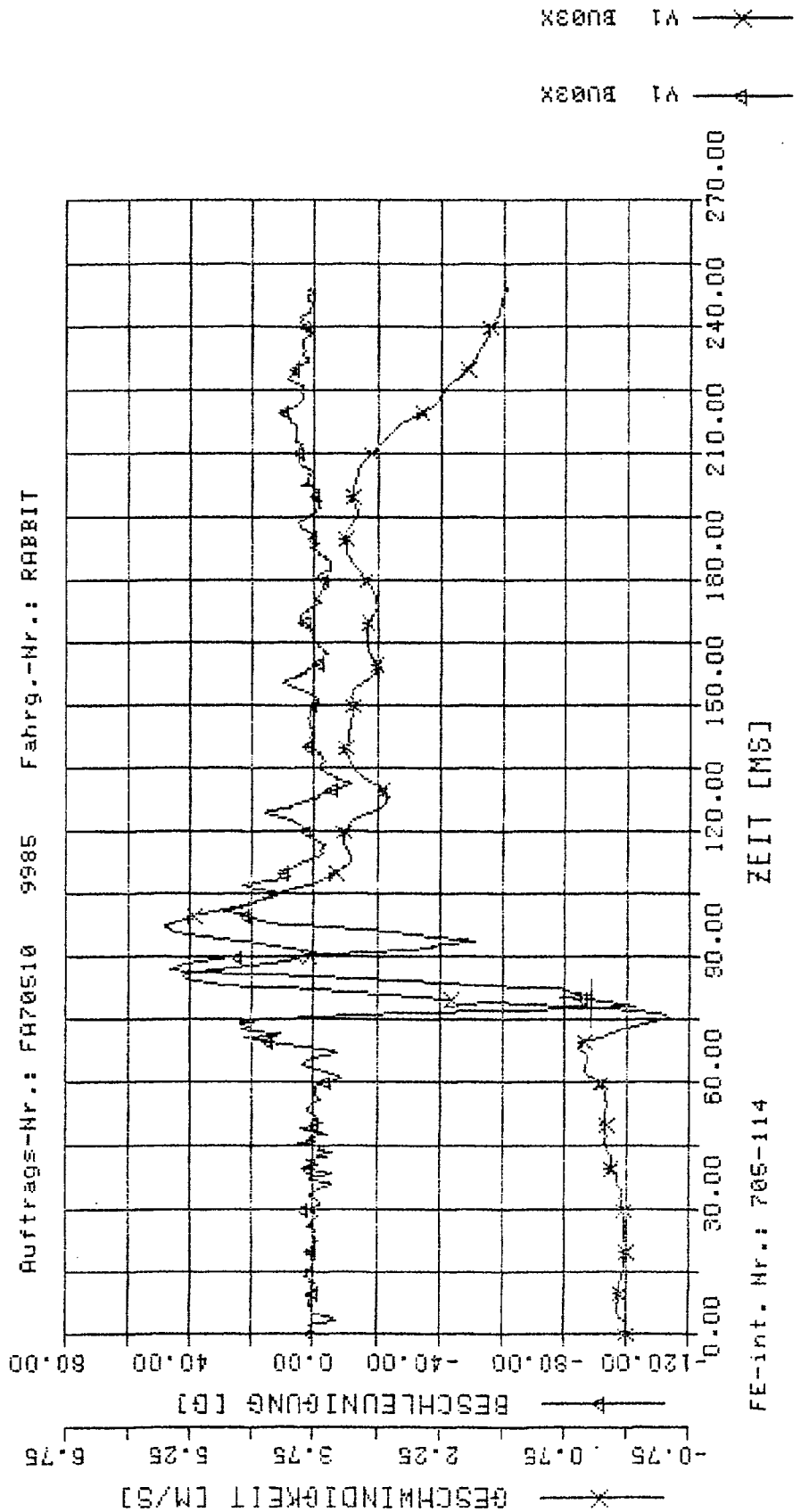
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
B003X	V1	Groesse	-93.143	Extr.	0.00
B003X	V1	BE g	6.116	97.50	0.00
		GE m/s			



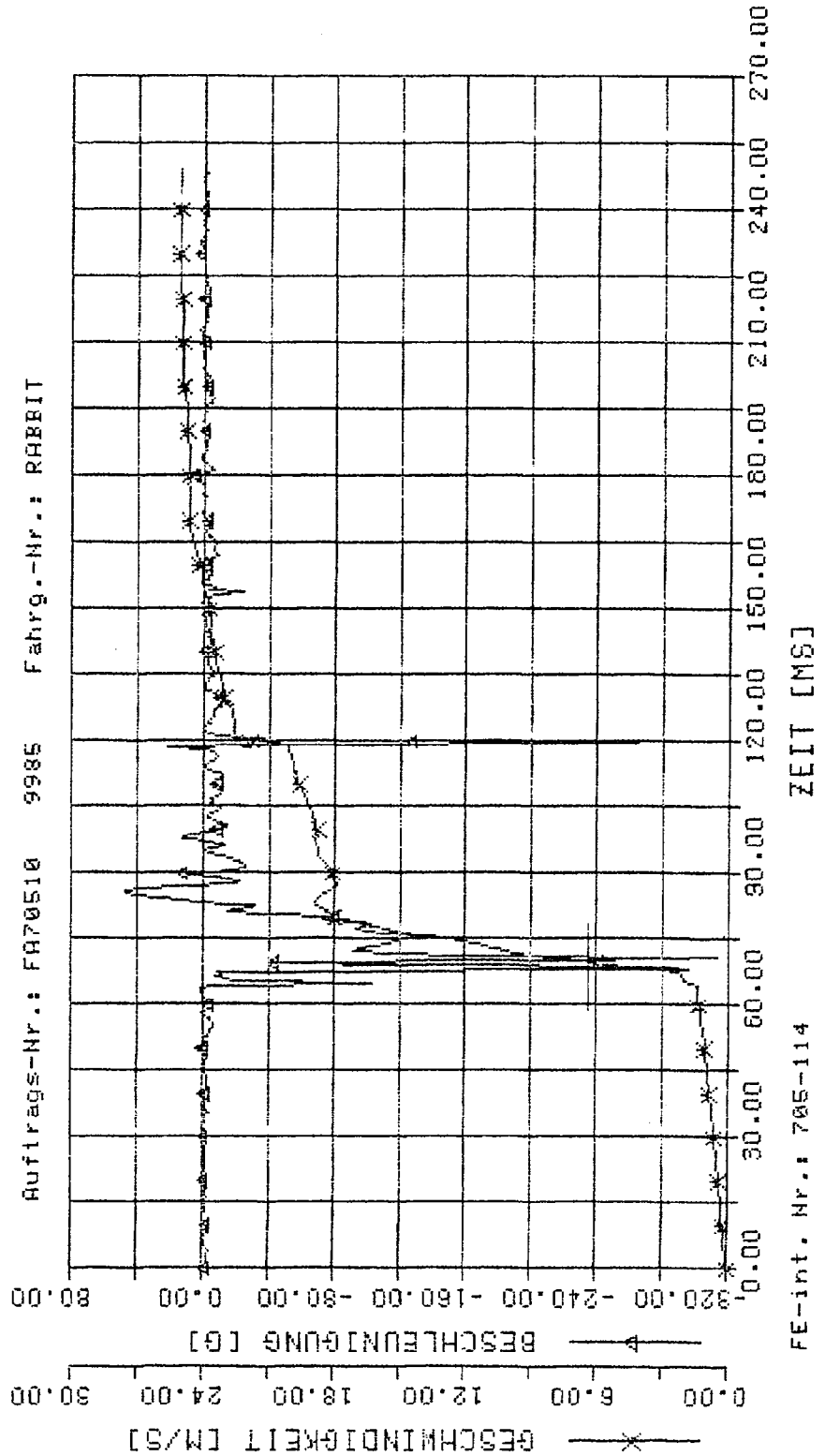
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
BU03X	V1	GE	-103.271	78.50	0.00
BU03X	V1	GE	5.542	97.50	0.00



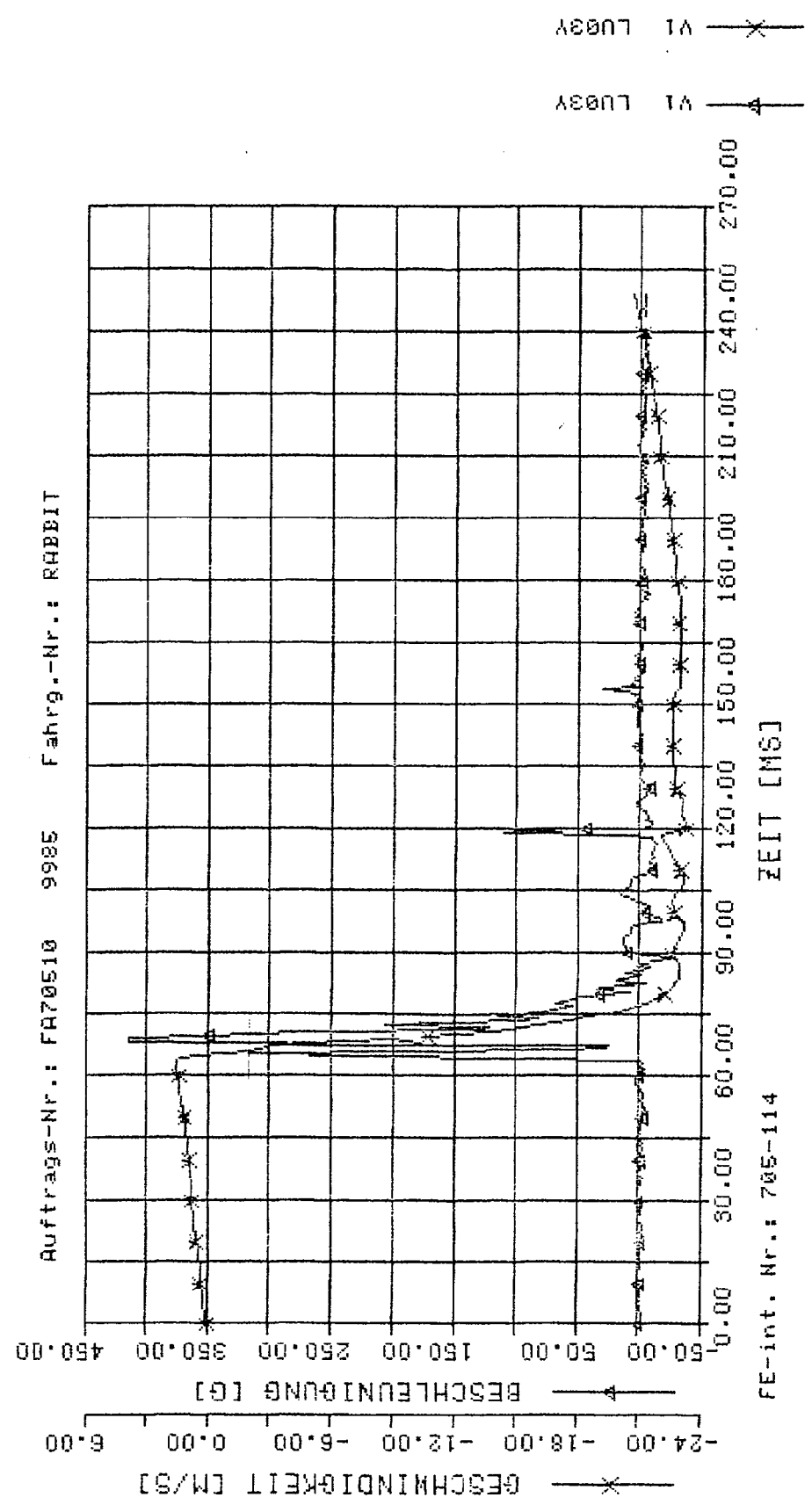
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
L003Y	V1	BE	-313.095	71.00	0.00
L003Y	V1	GE	25.133	255.50	0.00



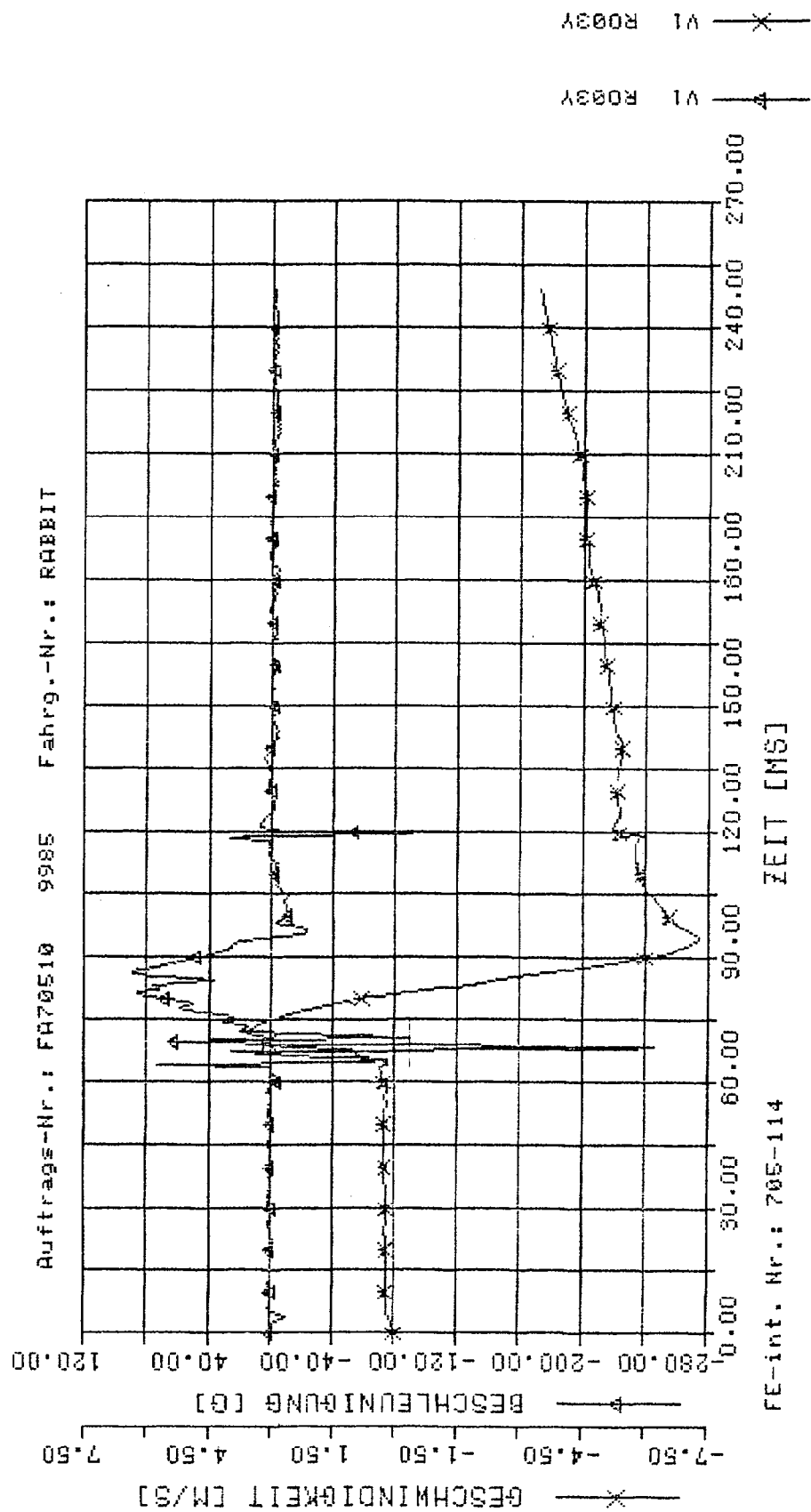
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
LU03Y	V1	BE g	413.386	69.50	0.00
LU03Y	V1	GE m/s	-23.359	120.50	0.00



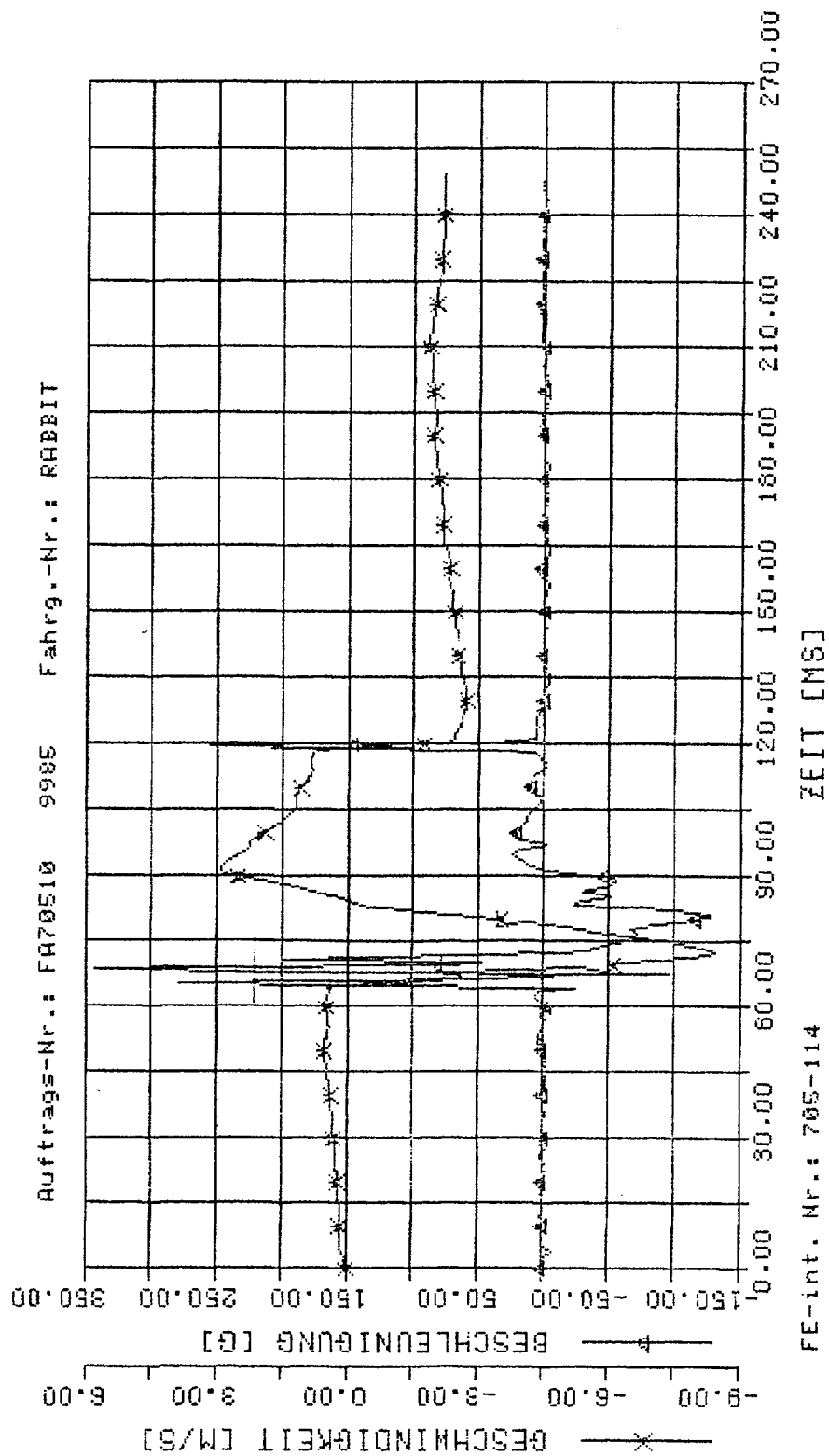
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3NS
R003Y	V1	BE	-246.017	69.00	0.00
		GE	-7.288	94.50	0.00



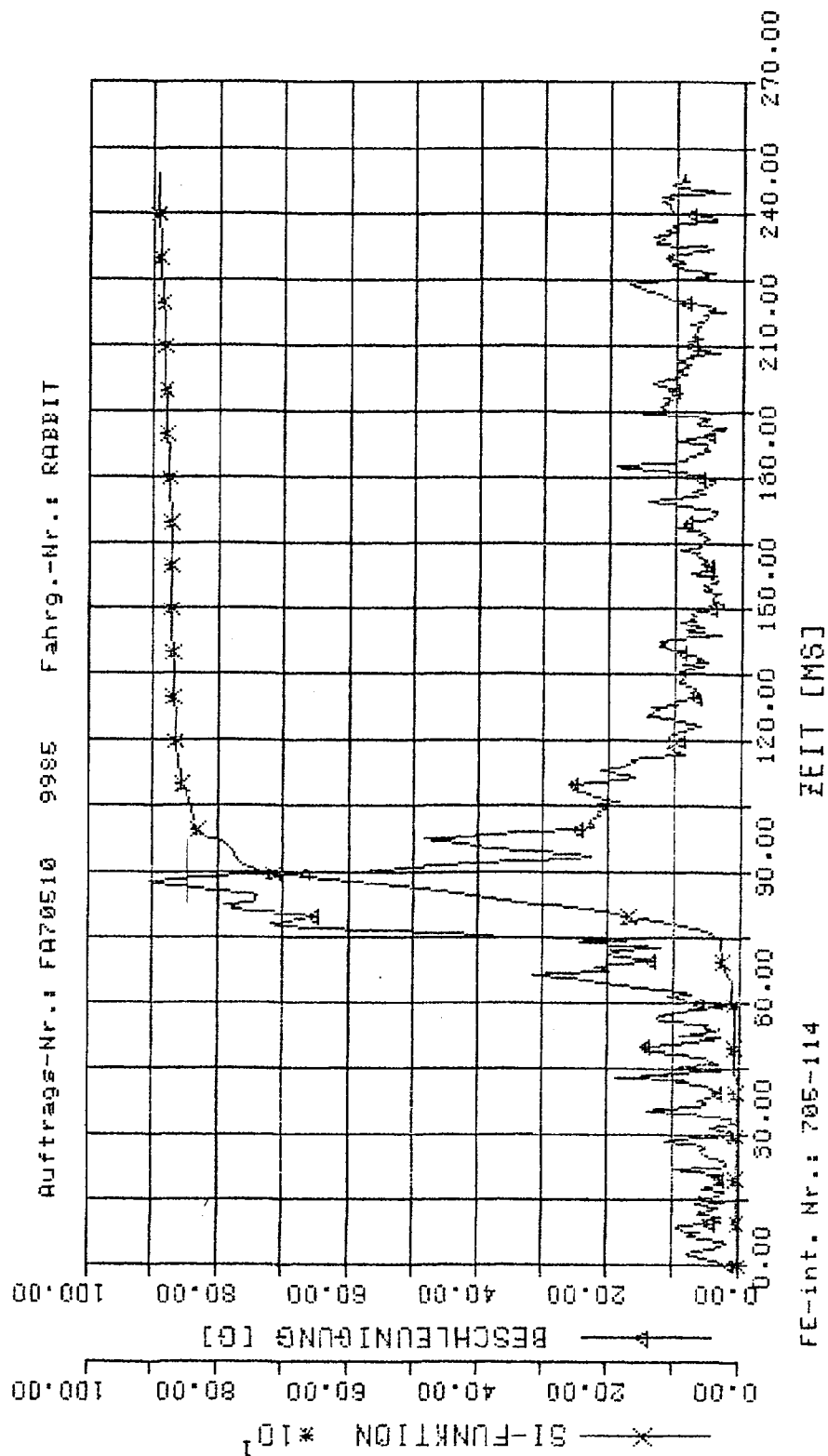
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
RU03Y	V1	BE g	342.189	69.00	0.00
RU03Y	V1	GE m/s	-8.418	72.50	0.00



Kennwerte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

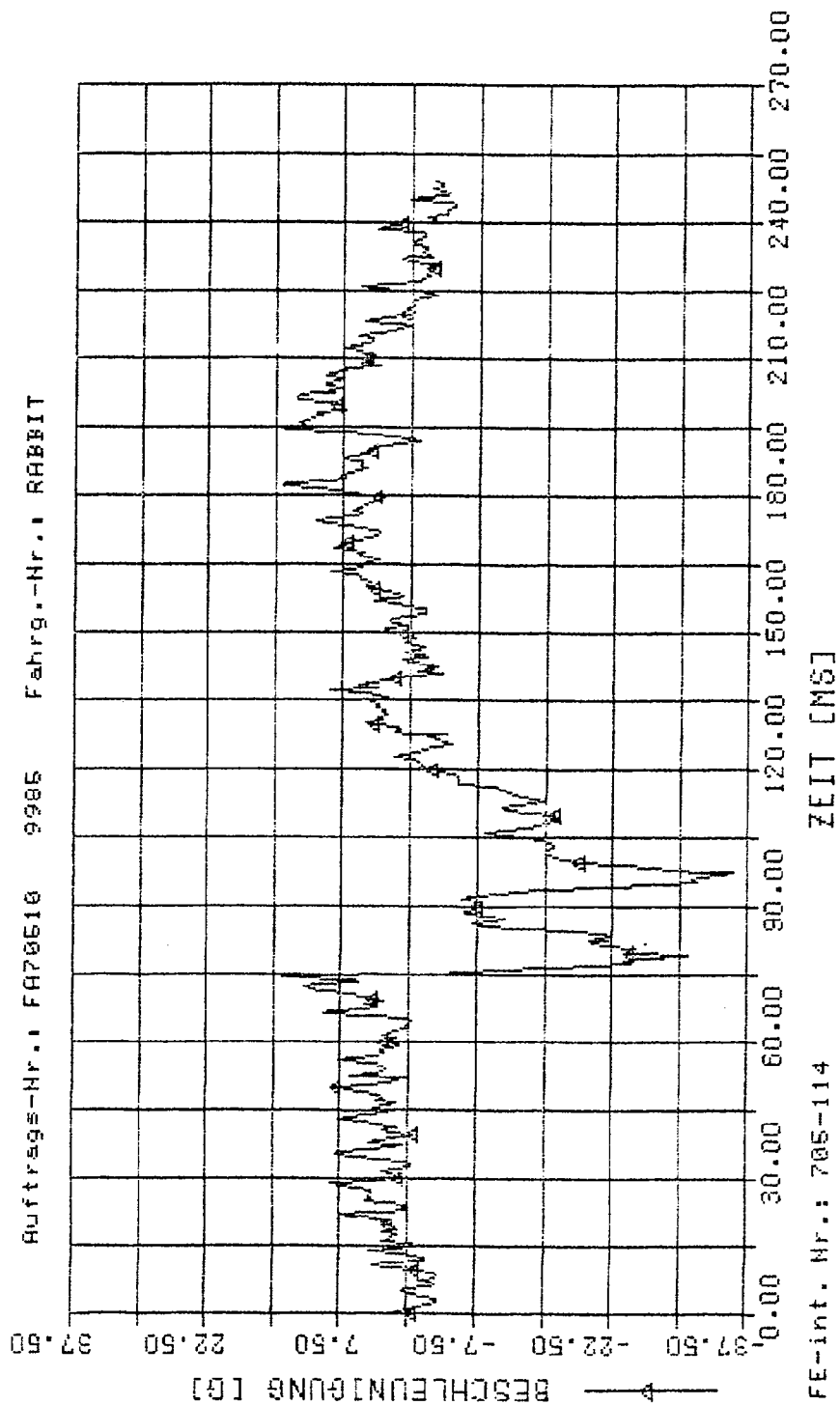
Mess-Stelle	UP	ber.	Extratum	t	3MS
T003	V1	BE g	90.186	88.00	0.00
T003	V1	SI	893.677	250.00	0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

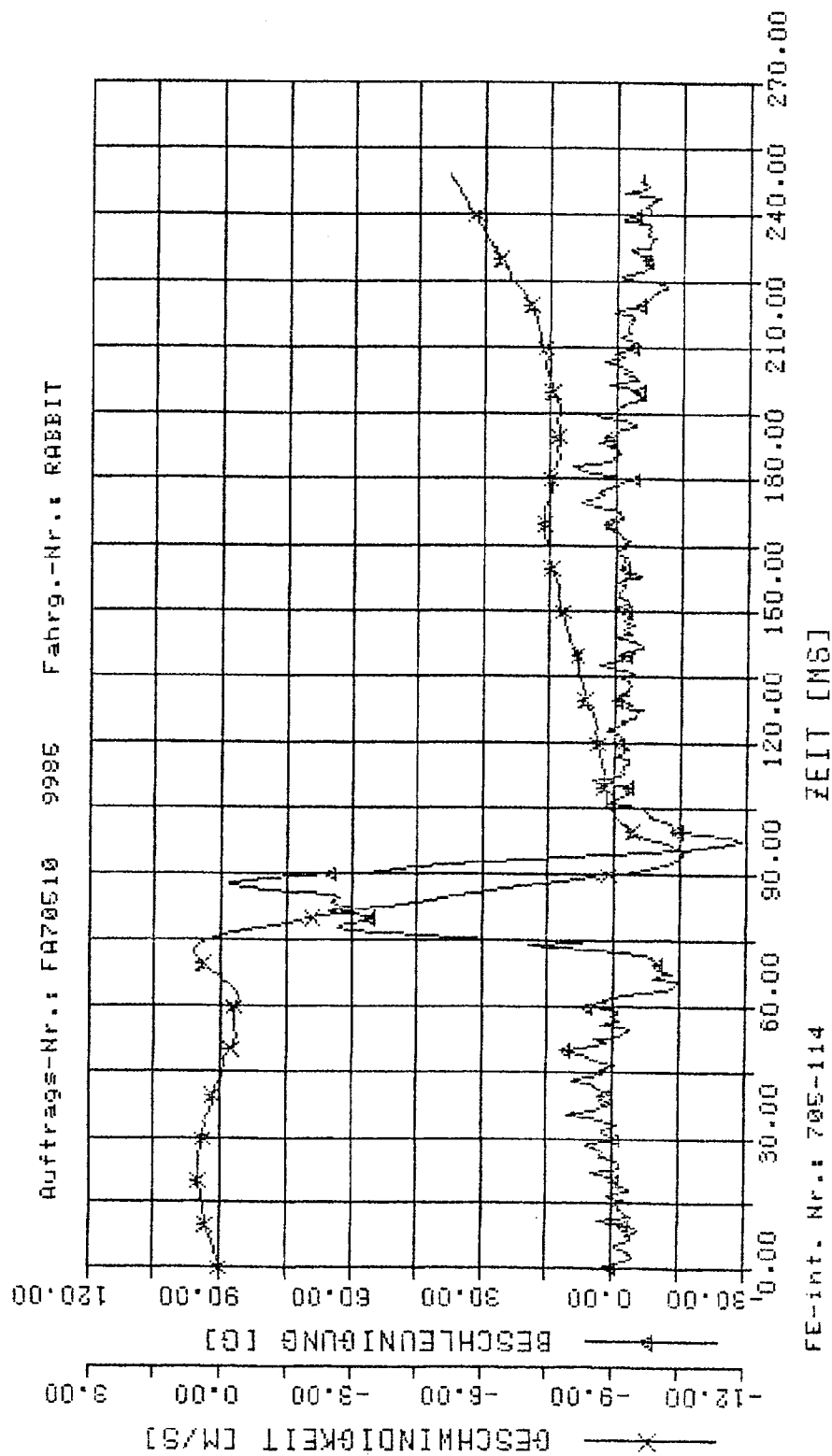
Mess-Stelle UP ber. Extremum t 3MS
TU03X Groesse Extr.
V1 BE g -36.018 97.50 0.00

Auftrags-Nr.: FA70510 9985 Fahrg.-Nr.: RABBIT



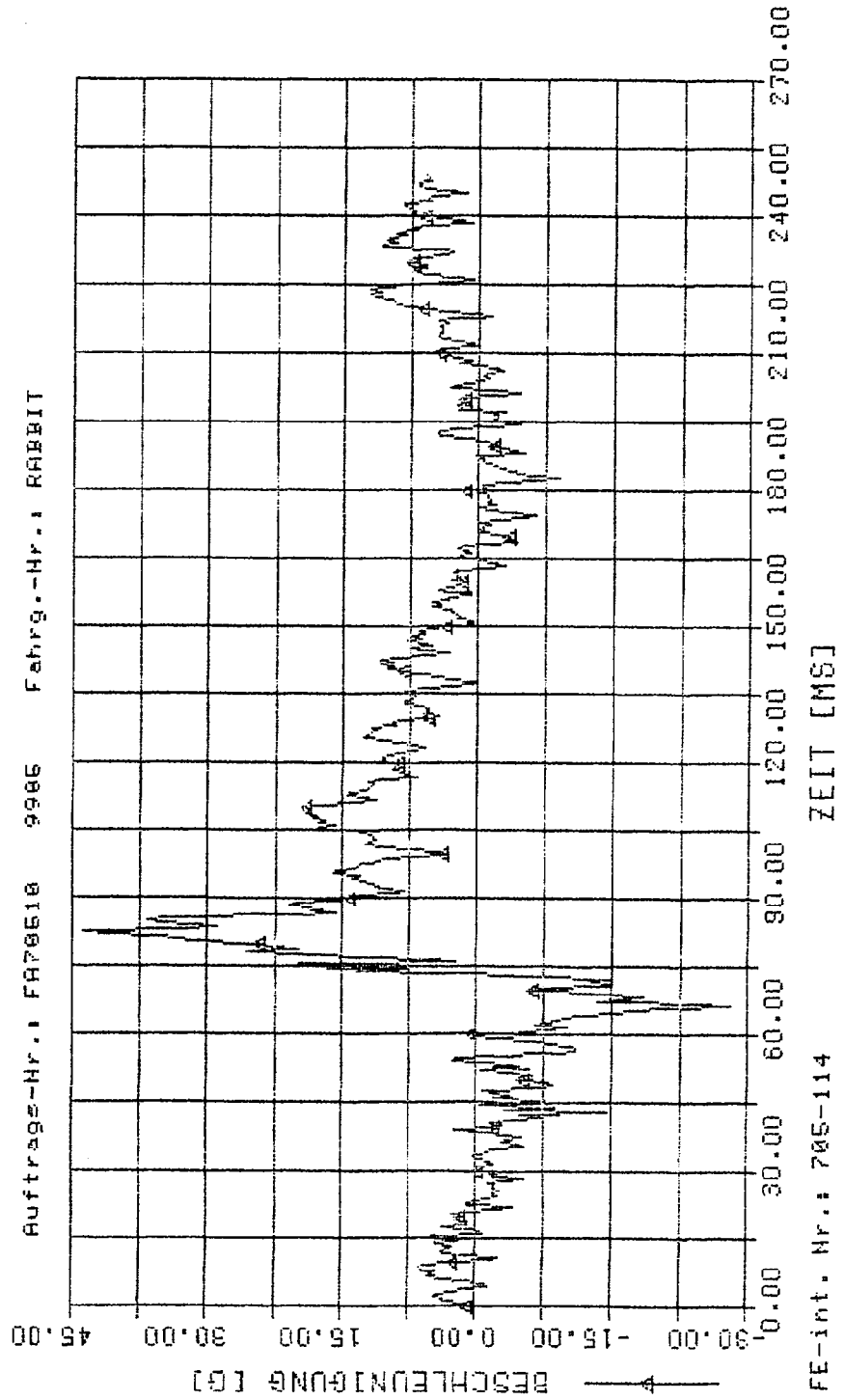
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
T003Y	VI	BE g	87.879	88.00	0.00
T003Y	VI	GE m/s	-10.561	94.50	0.00



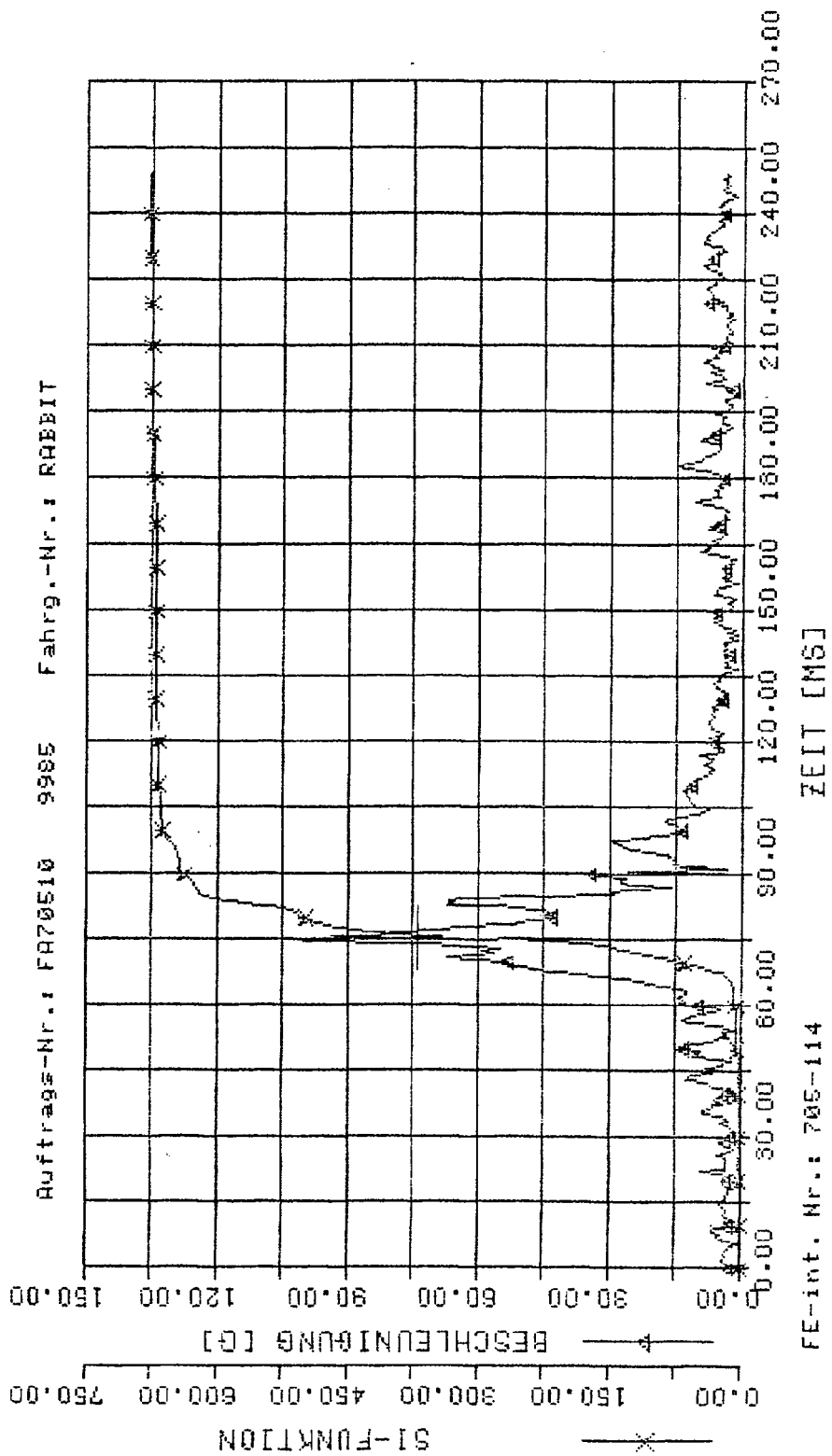
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle UP ber. Extremum t 3MS
T003Z Groesse Extr.
V1 BE g 43.789 82.50 0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
TU03	V1	BE g	102.647	75.50	0.00
TU03	V1	SI	676.873	250.00	0.00

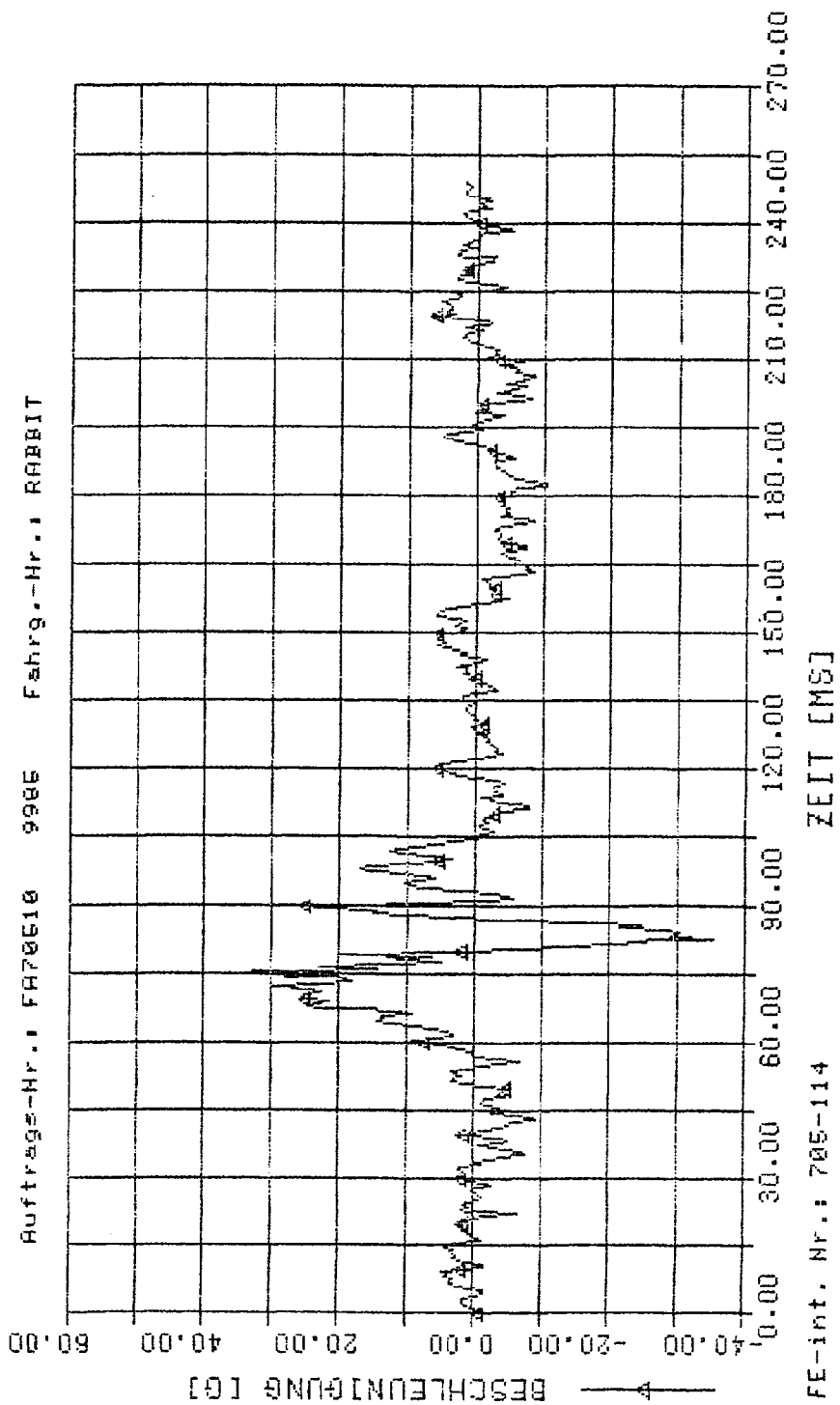


- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle
TU03X

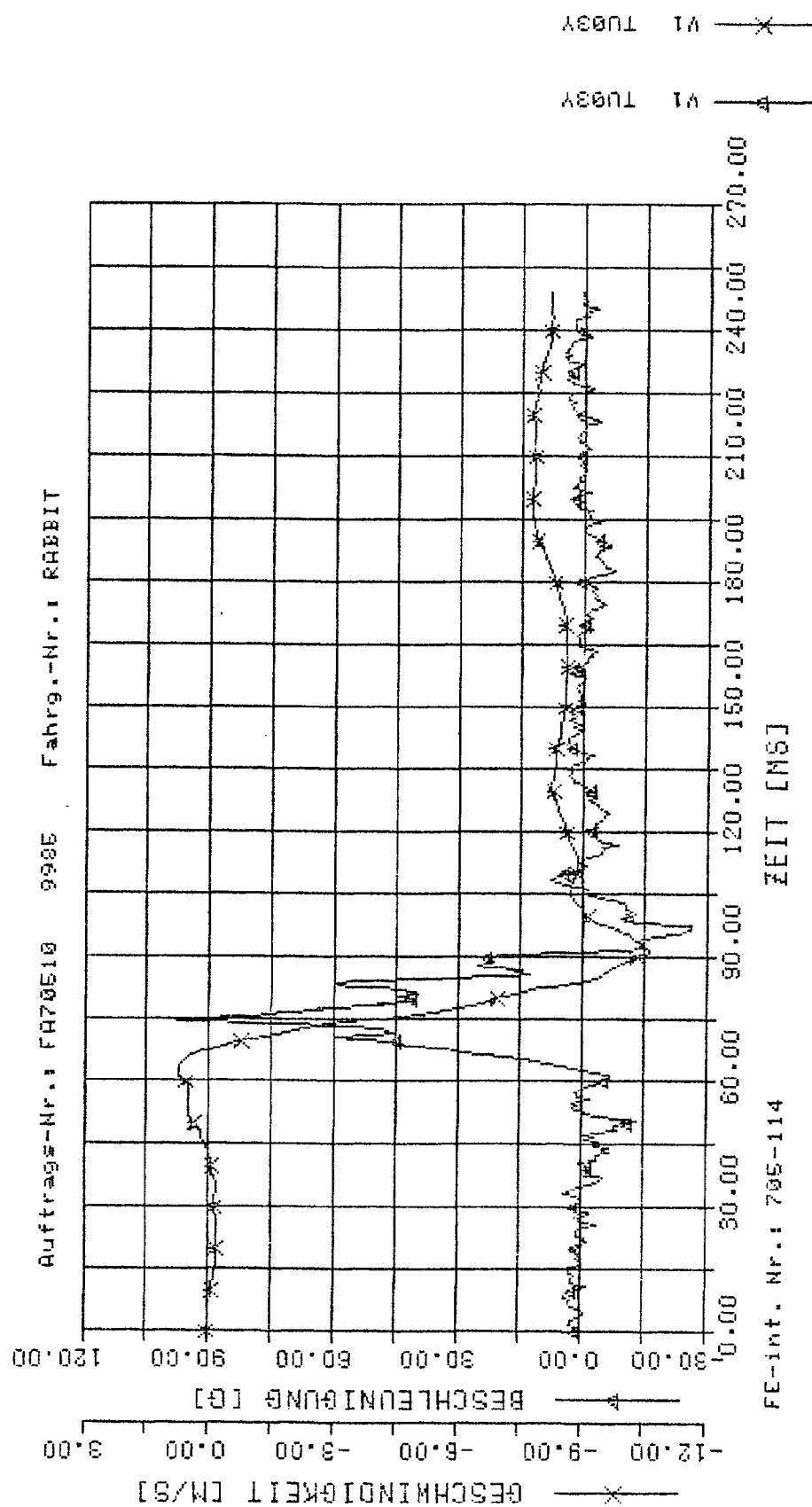
UP	ber.	Extremum	t
V1	BE g	39.492	75.50
			0.00

Auftrags-Nr.: FA70510 9985 Fahrg.-Nr.: RABBIT



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

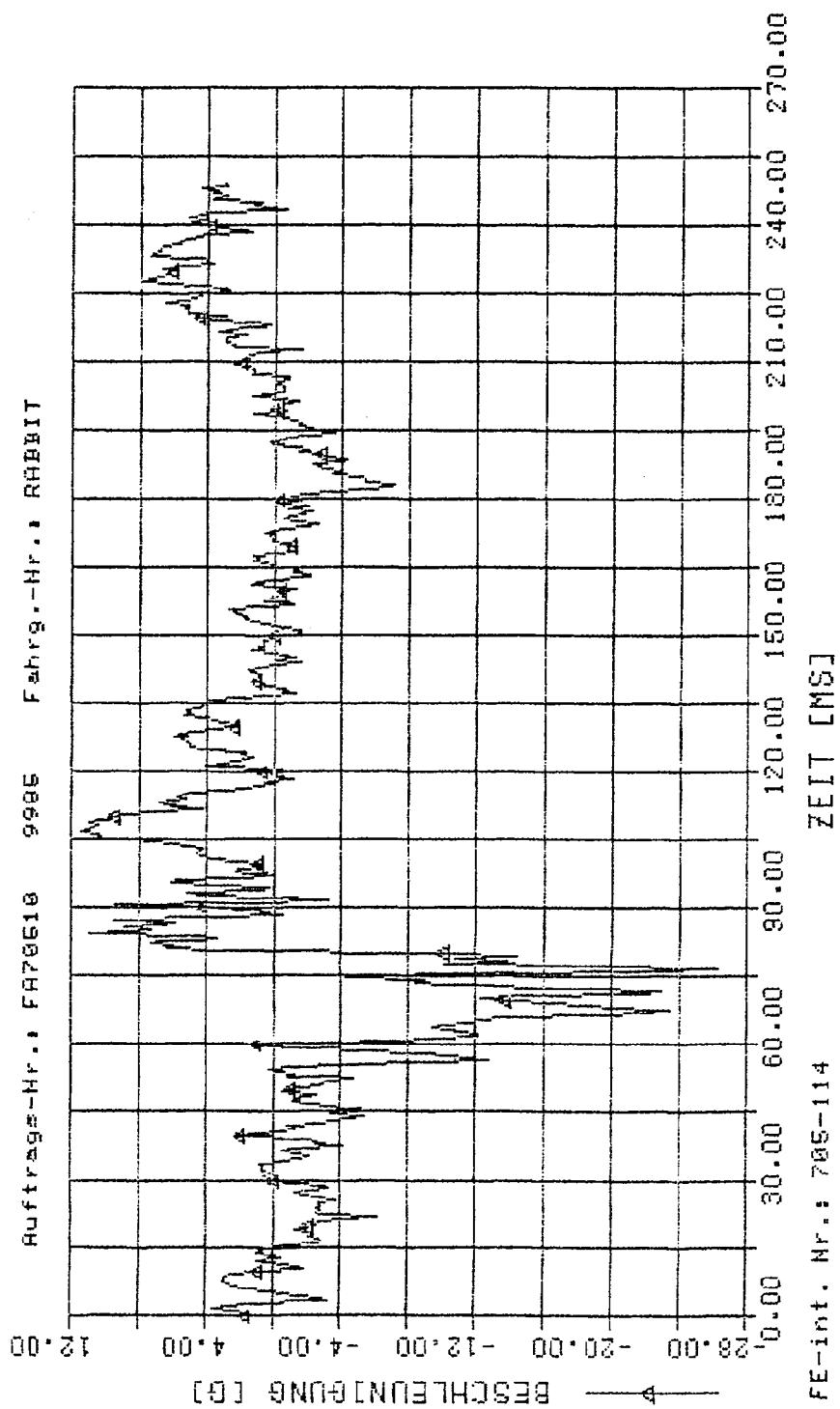
Mess-Stelle	UP	ber.	Extremum	t	EMS
TU03Y	V1	Grösse	97.123	Extr.	0.00
TU03Y	V1	Grösse	-10.621	74.50	0.00
		GE m/s		94.50	



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle UP ber. Extremum t ZNS
TU03Z Groesse Extr.
V1 BE g -26.264 77.00 0.00

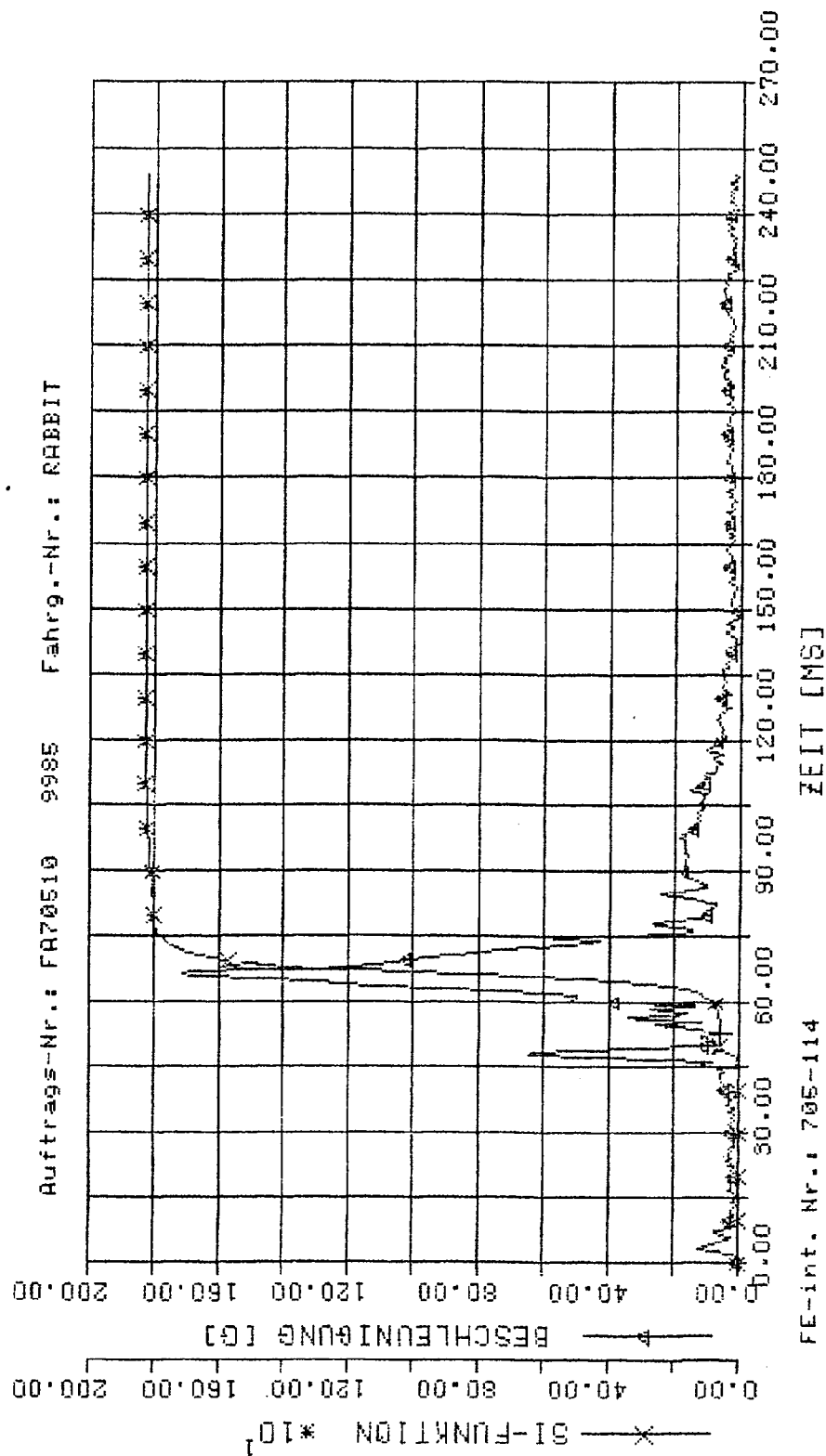
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FE-int. Nr.: 785-114

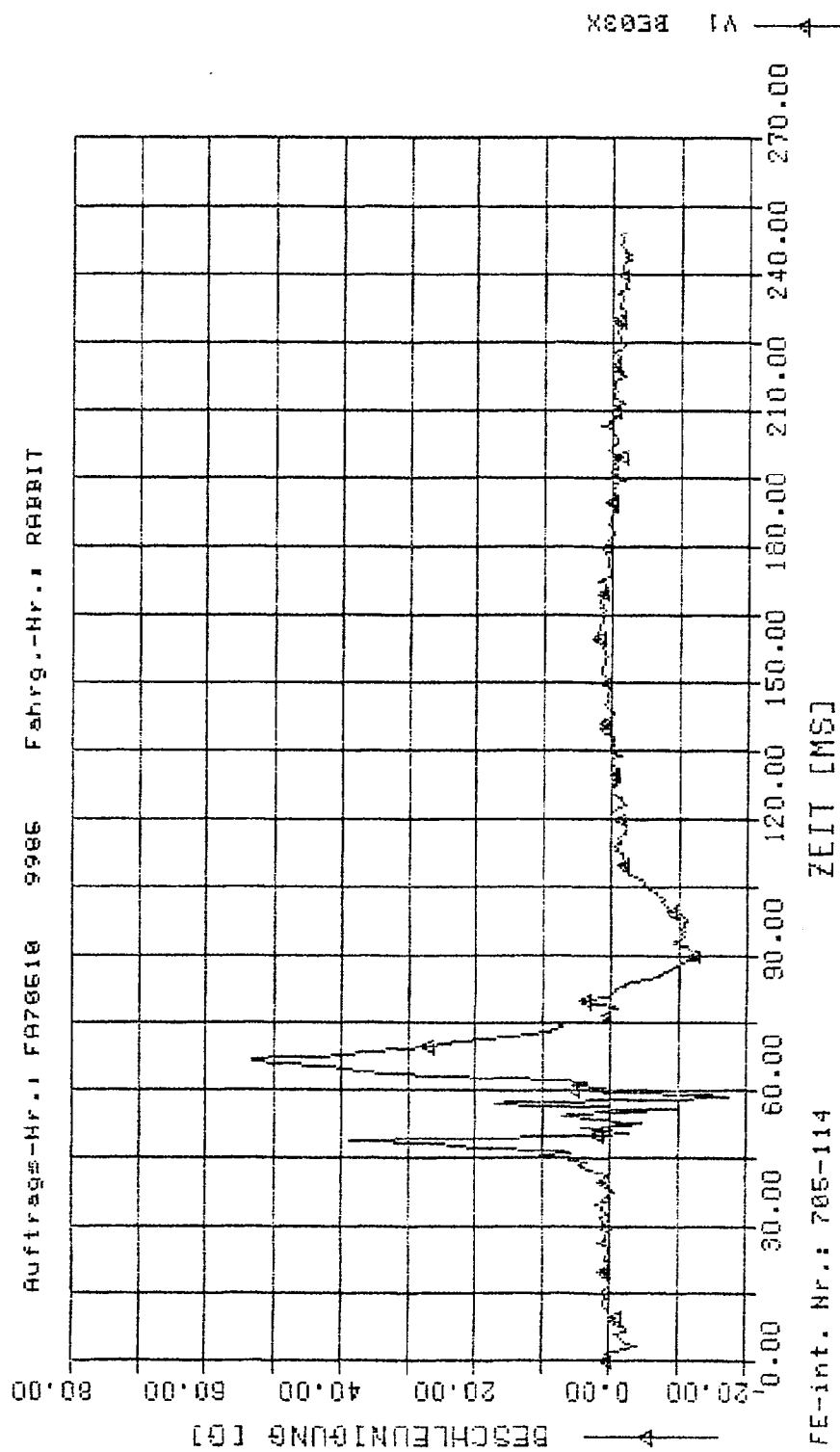
- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t	3MS
BE03	V1	BE g	171.535	66.50	130.08
BE03	V1	SI	1828.705	250.00	0.00



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

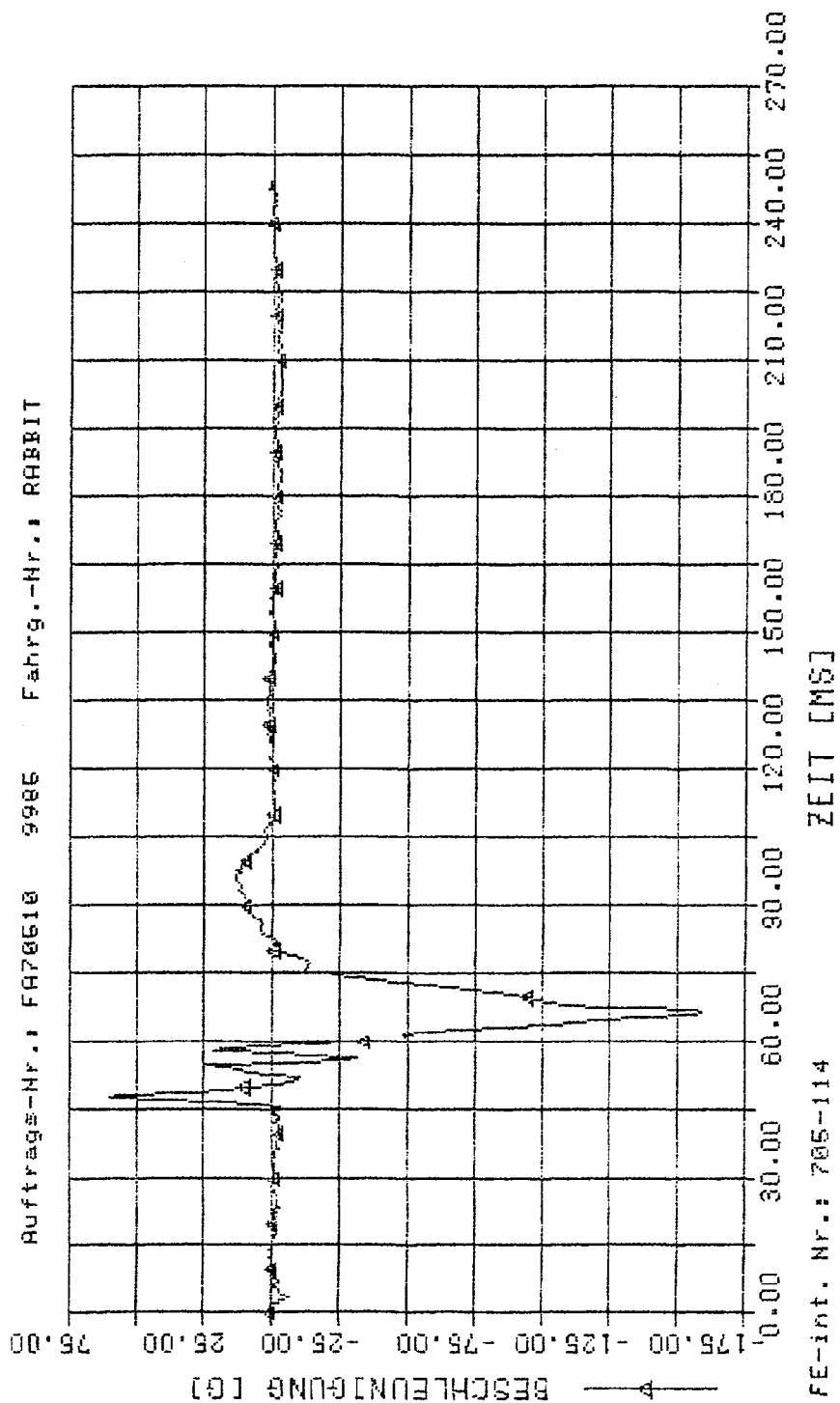
Mess-Stelle UP ber. Extremum t 3MS
 BE03X VI BE g 53.062 64.50 39.71



- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle) UP ber. Extremum t 3MS
BE03Y Groesse -159.353 Extr. 66.50 21.30

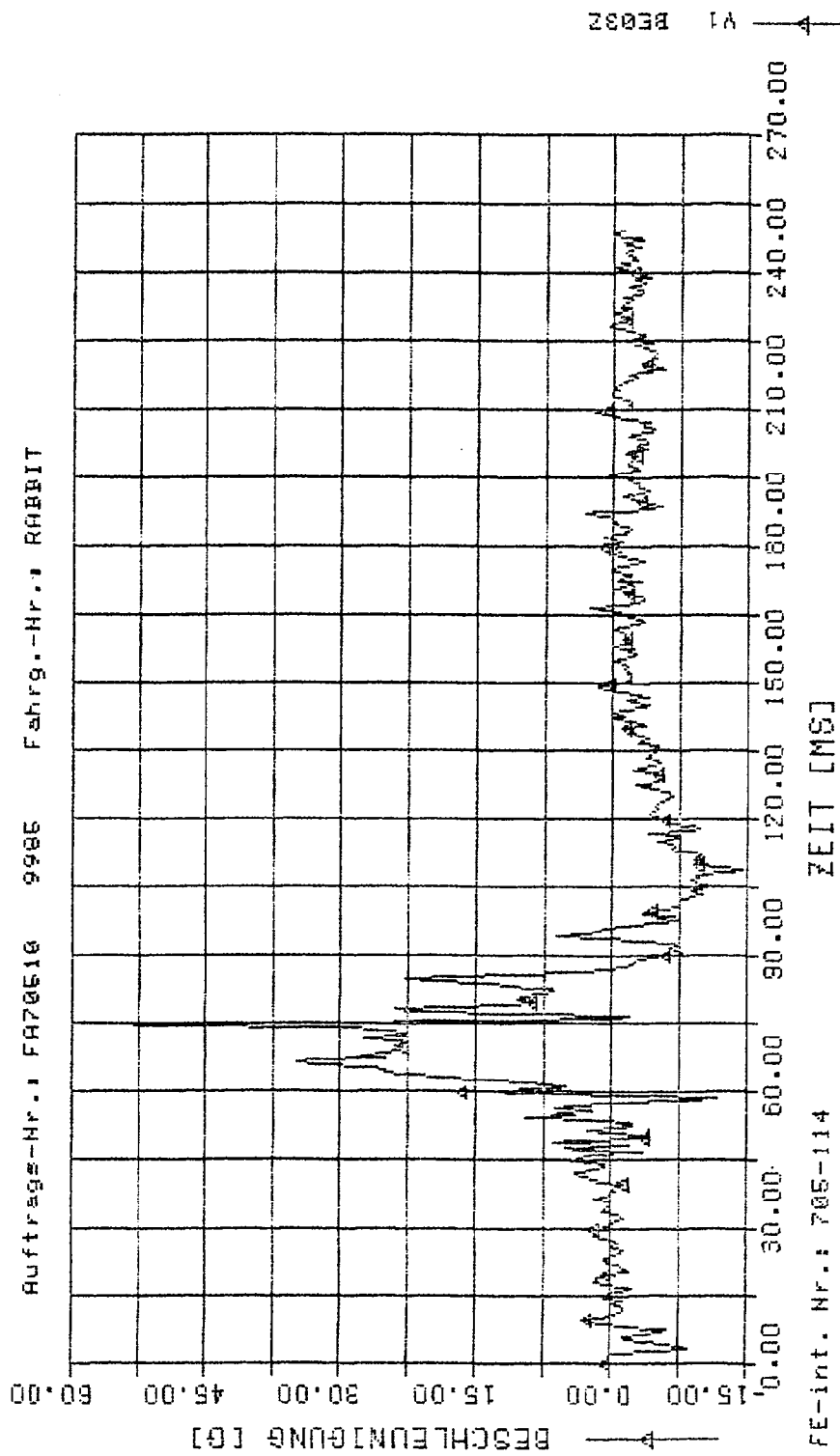
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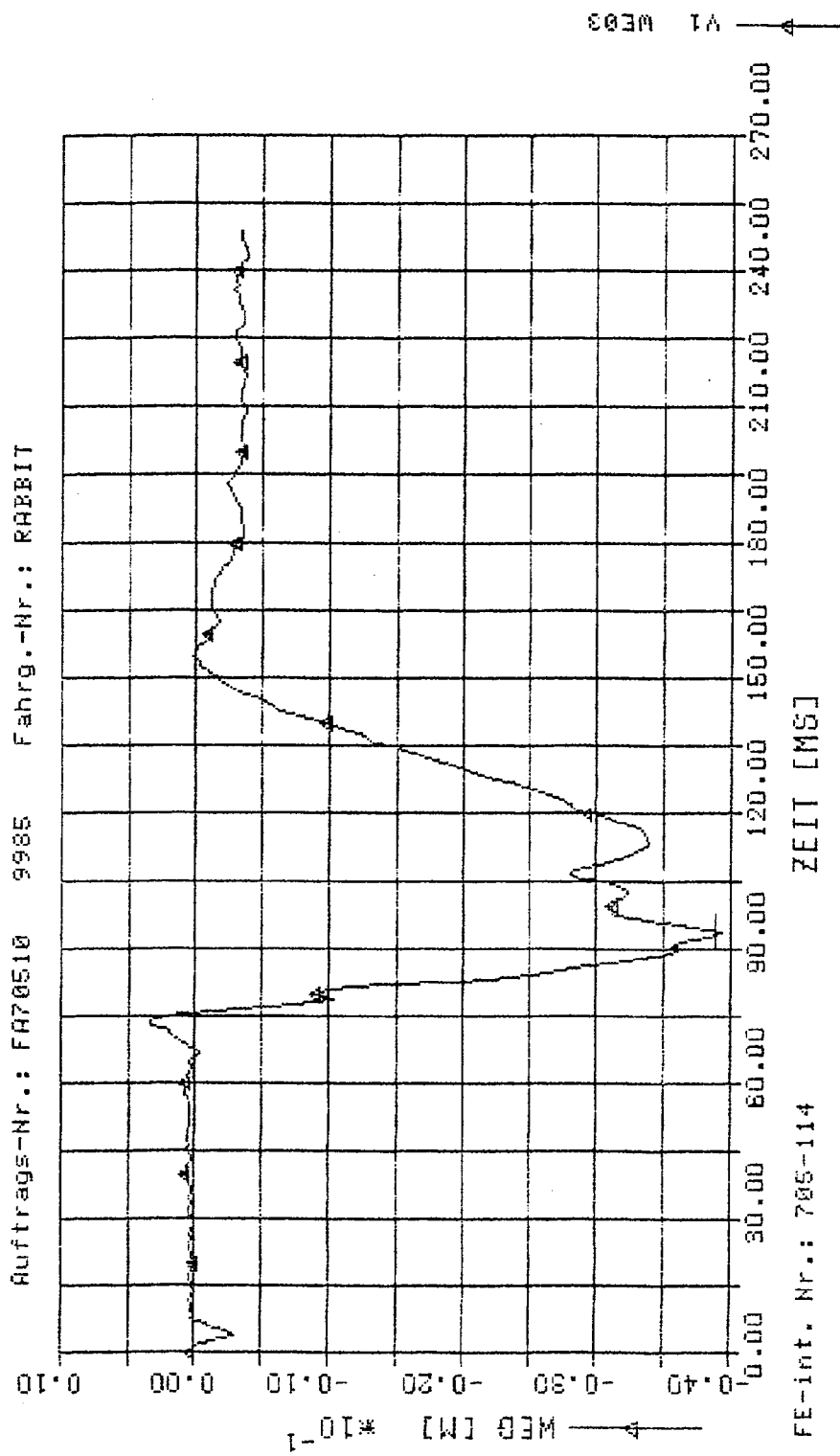


- Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985

Mess-Stelle	UP	ber.	Extremum	t
BE03Z	V1	BE g	56.134	Extr.
				30.34

Auftrags-Nr.: FA70510 9985 Fahrg.-Nr.: RABBIT





Kenn-Werte: Auftrags-Nr.: FA70510 Versuchs-Nr.: 9985
 Mess-Stelle UP ber. Extremum t 3MS
 GU03BA Groesse Extr. 3.50 0.00
 V1 KR KN -1.560

Auftrags-Nr.: FA70510 9985 Fahrg.-Nr.: RABBIT

