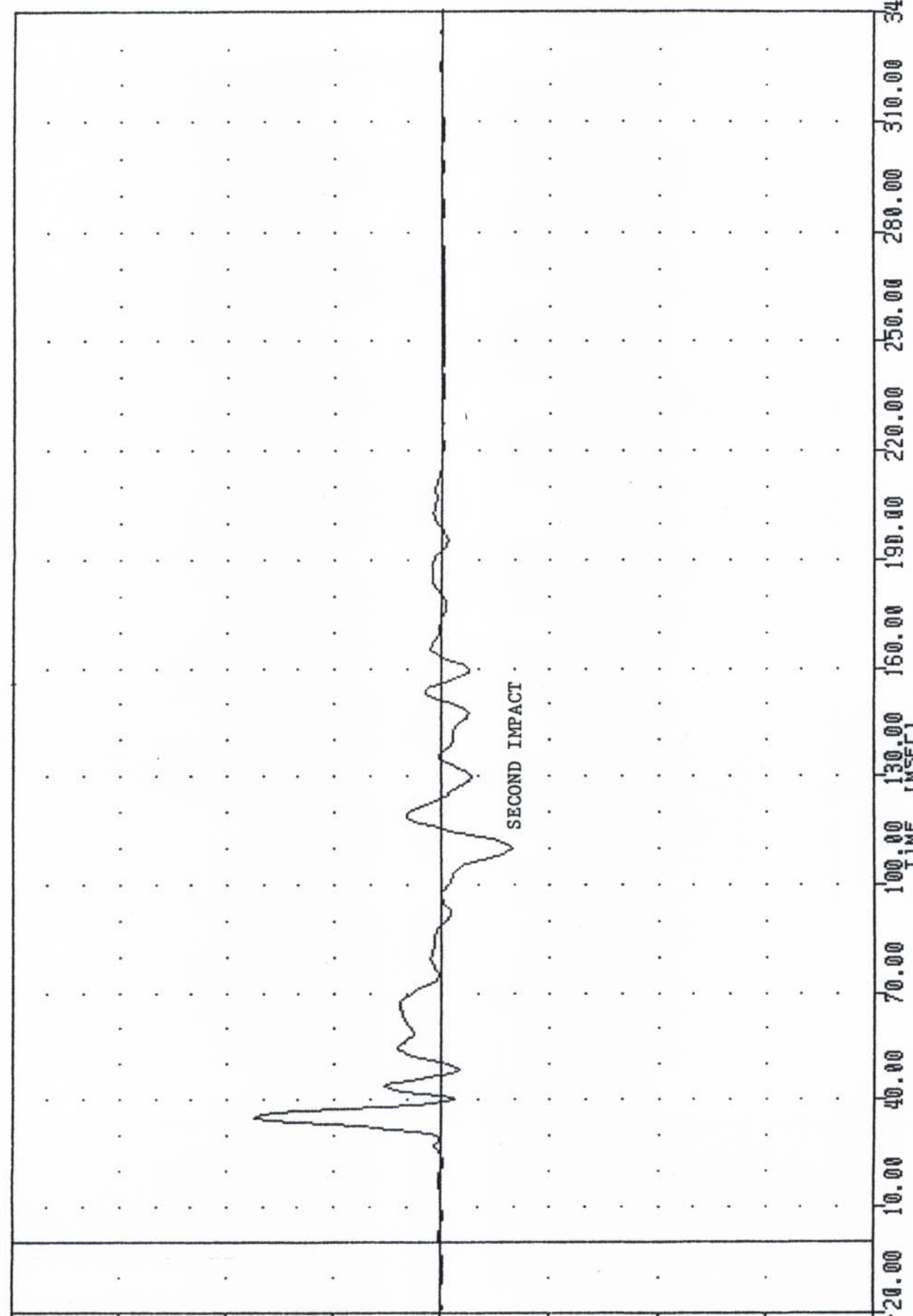


TUC 040803
 SIDE AGGRESSIVE ATTRIBUTES
 84216000000
 LURYGA

PLU1 DATE 25-nUG-64 12:01:21
 FILTER = HSR1 136/ 189/ -50
 MIN, MAX VALUES = -32.30 109.38, 86.78 34.38

B-24
 ACCELERATION (G)
 -200.00 -150.00 -100.00 -50.00 0.00 50.00 100.00 150.00 200.00



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
 DRIVER LEFT UPPER RIB ACCELERATION #2 Y AXIS

TIME 040805

SIDE AGGRESSIVE ATTRIBUTES

84215000000

LURYVA

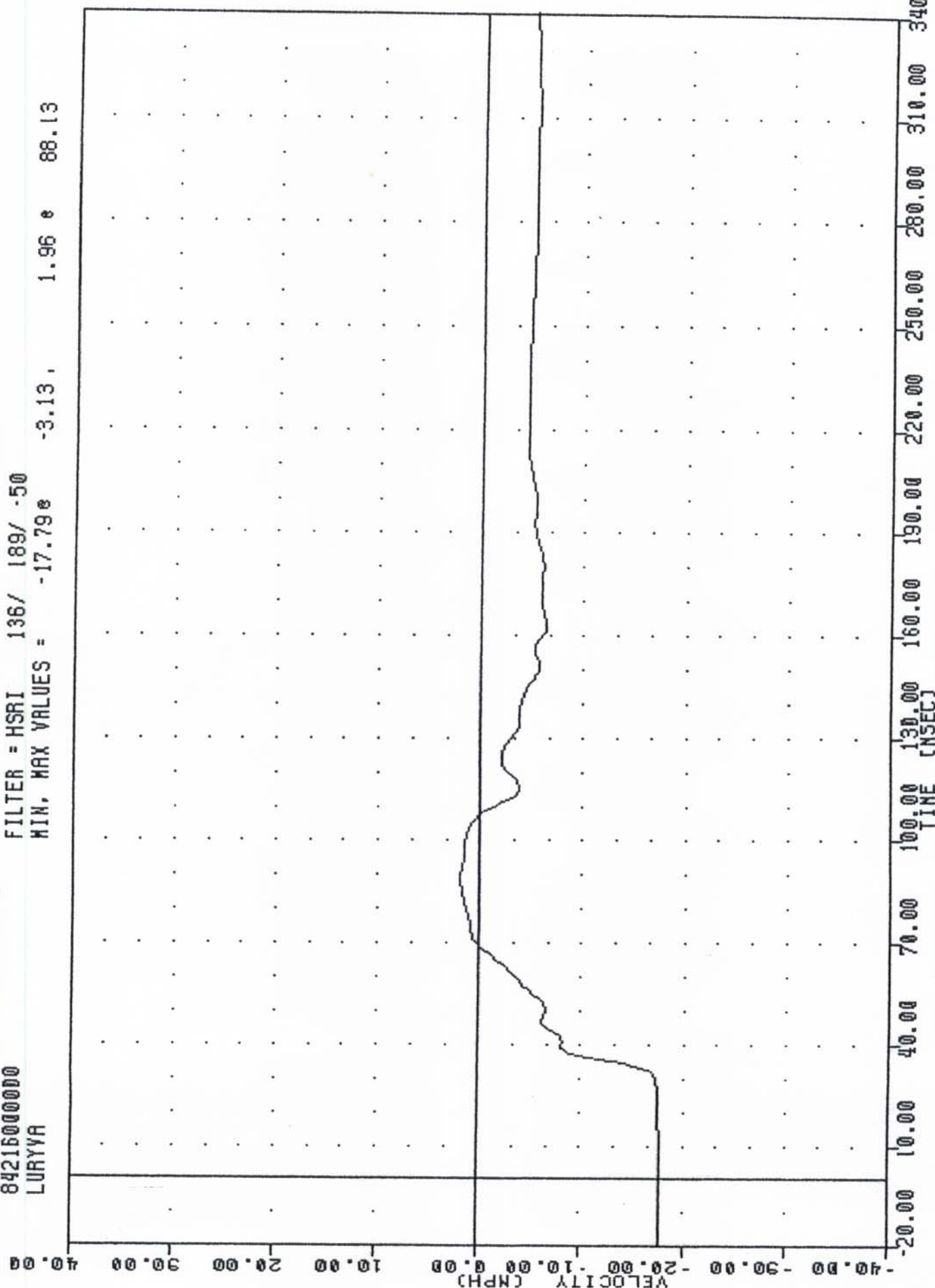
PLU1 DATE 23-nov-84 12:07:14

FILTER = HSRI 136/ 189/ -50

MIN, MAX VALUES = -17.79e

-3.13,

1.96 e 88.13

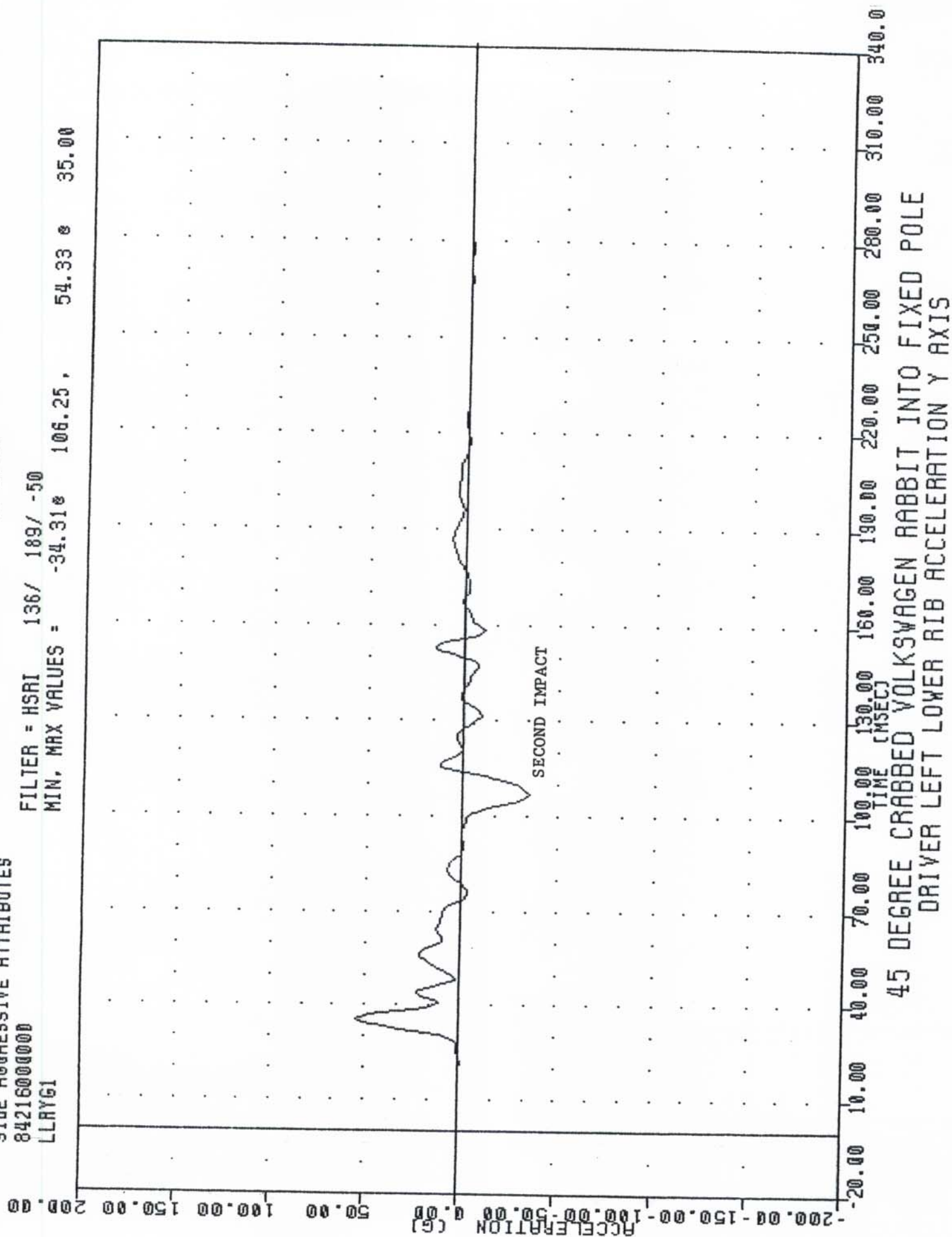


B-25

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
DELTA V USING LURYGA

PLC, DRTL 25 116-67 12.1:2,
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LLRYG1

FILTER = HSRI 136/ 189/ -50
MIN, MAX VALUES = -34.31 106.25, 54.33 35.00

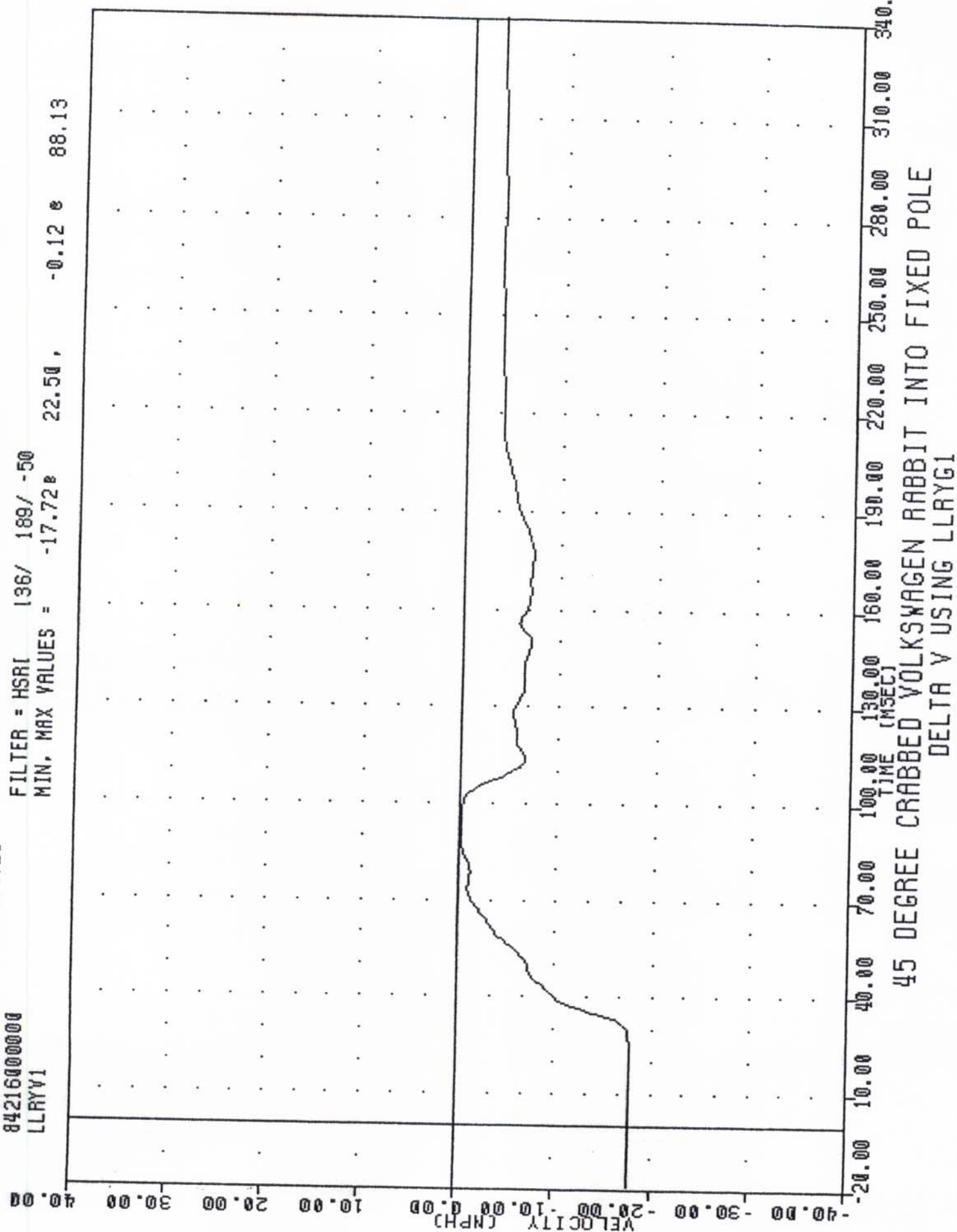


Inc 840803
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LLRYV1

PLU1 DATE 23-HUG-84 12:57:14

FILTER = HSRI 136/ 189/ -50
MIN, MAX VALUES = -17.72 22.50, -0.12 88.13

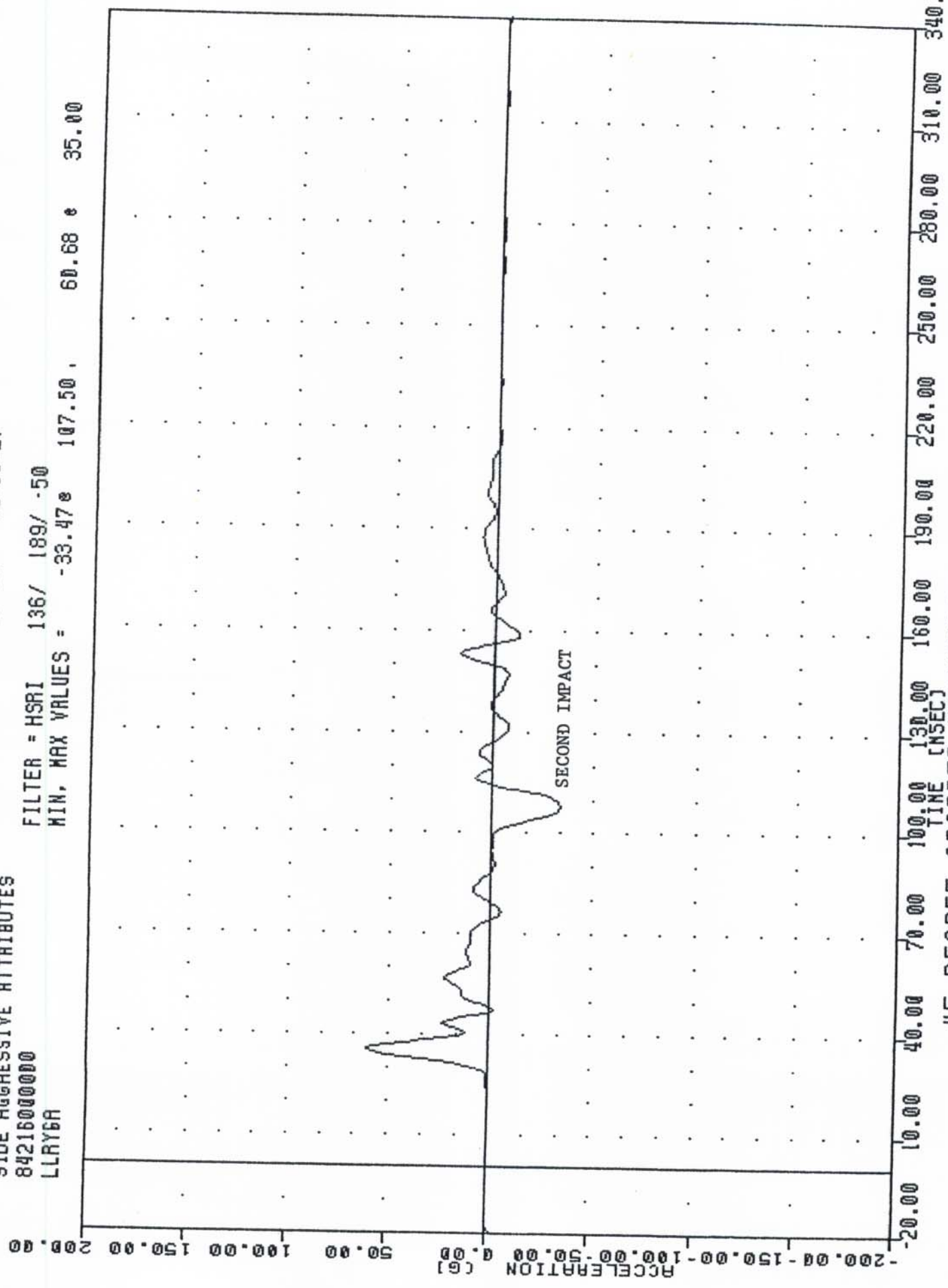
B-27



PLG, DATE 23-nov-84 12:01:27

FILE 040803
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LLRY6A

FILTER = HSRI 136/ 189/ -50
MIN, MAX VALUES = -33.47 107.50 60.68 35.00



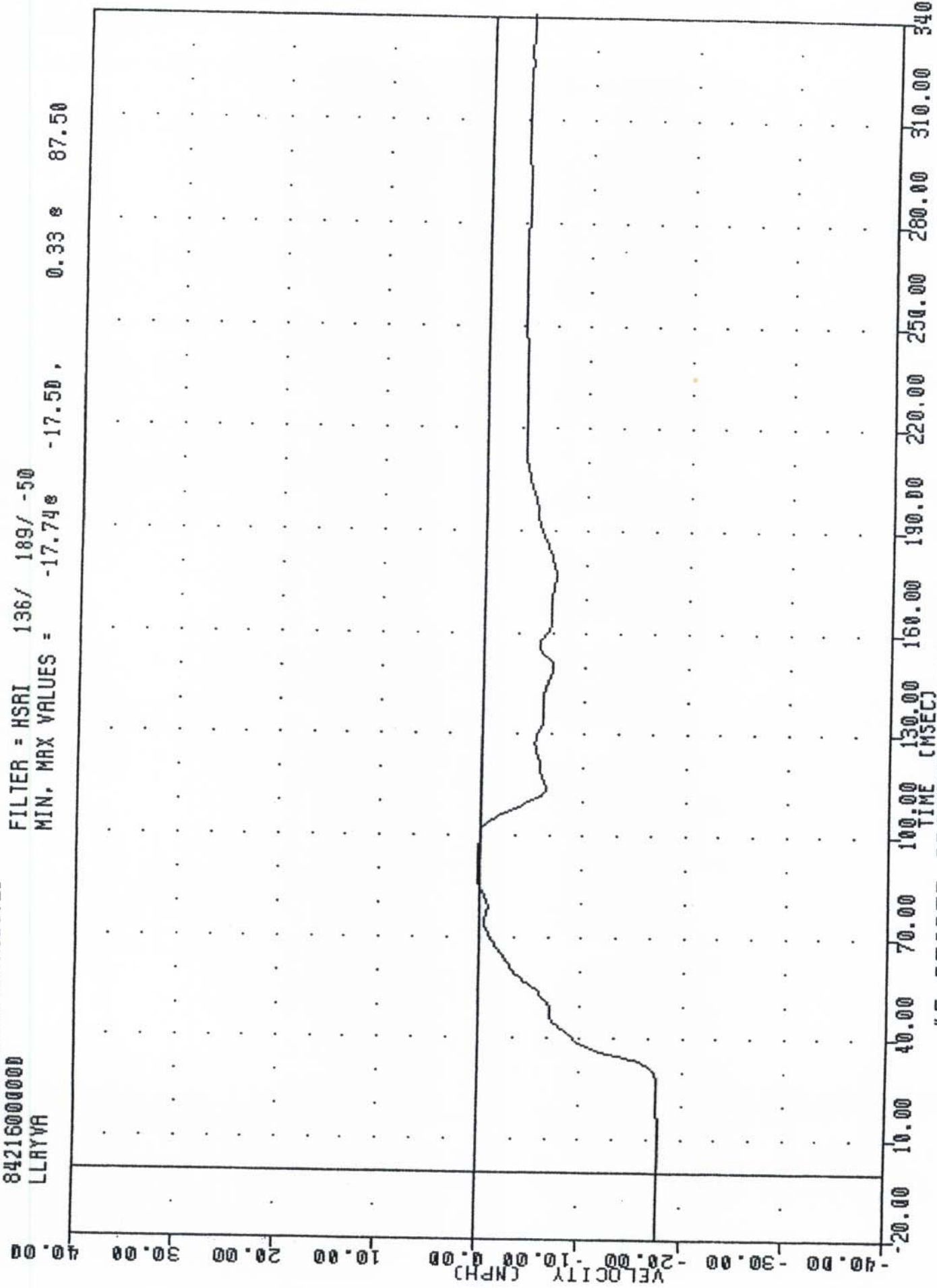
45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
DRIVER LEFT LOWER RIB ACCELERATION #2 Y AXIS

Tue, 040800

PLU1 DATE 25-MUG-84 12:57:14

SIDE AGGRESSIVE ATTRIBUTES
84216000000
LLRYGA

FILTER = HSRI 136/ 189/ -50
MIN. MAX VALUES = -17.74e -17.50, 0.33 e 87.50



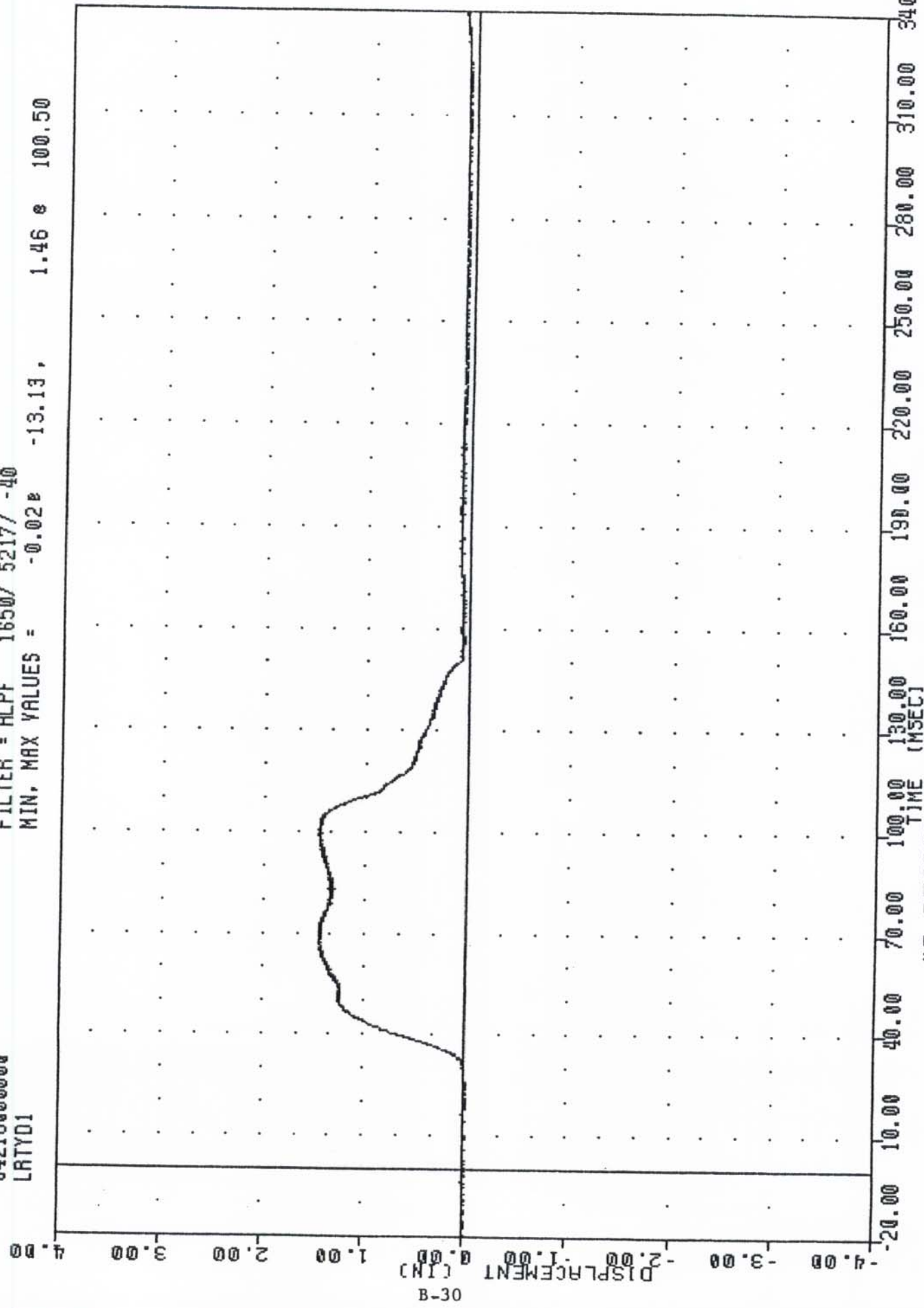
B-29

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
DELTA V USING LLRYGA

IRC , 84W8W3
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LRTYD1

PLOT DATE 23-AUG-84 12:48:36

FILTER = ALPF 1650/ 5217/ -40
MIN, MAX VALUES = -0.028 -13.13, 1.46 8 100.50

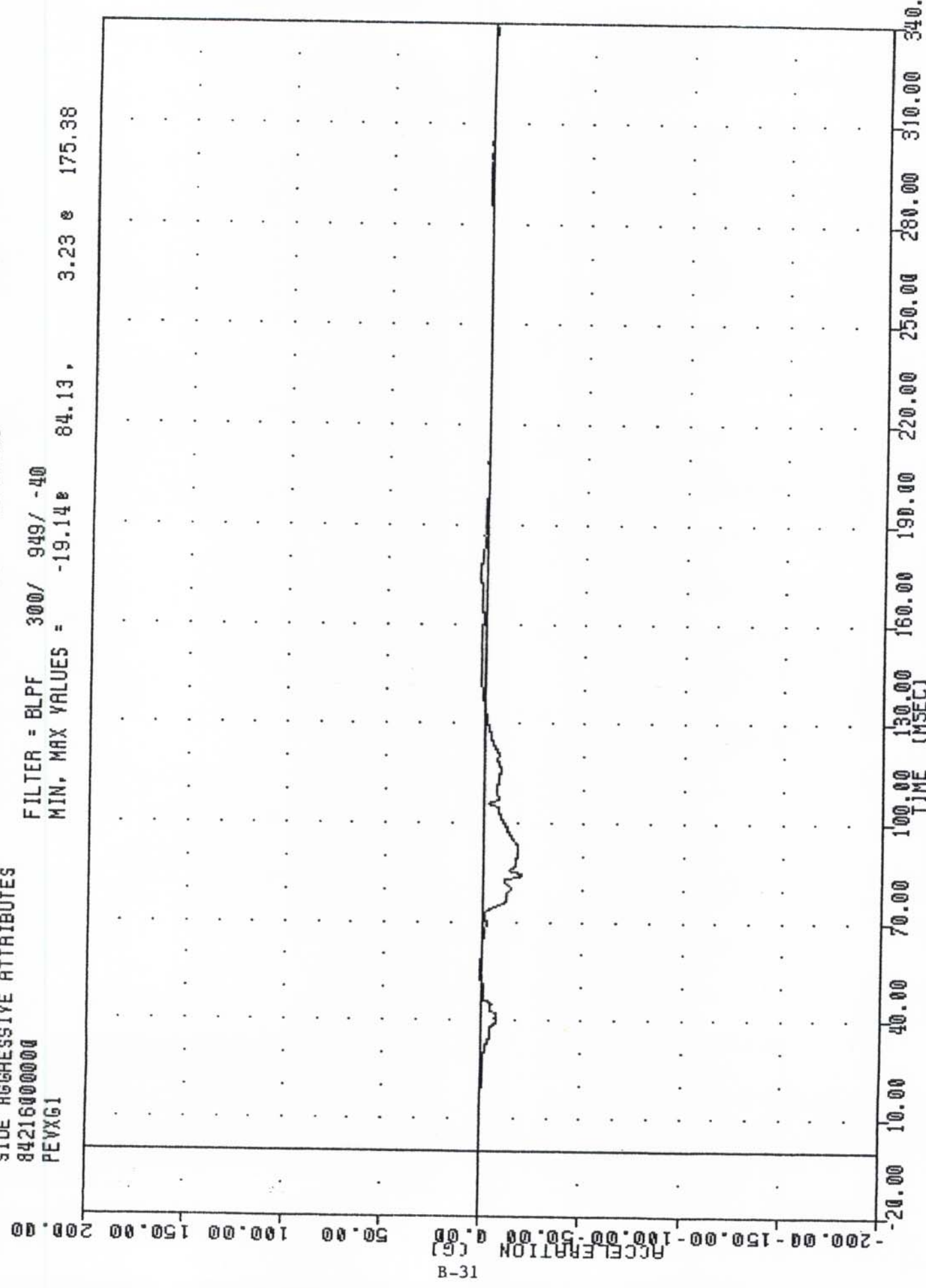


45 DEGREE VOLKSWAGEN RABBIT INTO FIXED POLE
DRIVER LEFT RIB TO SPINE DISPLACEMENT INCHES

RC 840033
SIDE AGGRESSIVE ATTRIBUTES
84216000000
PEVXG1

LOT UNFE 23-AUG-84 12:40:36

FILTER = BLPF 300/ 949/ -40
MIN, MAX VALUES = -19.14e 84.13, 3.23 e 175.38



RC, 840003
SIDE AGGRESSIVE ATTRIBUTES
84216000000
PEYGI

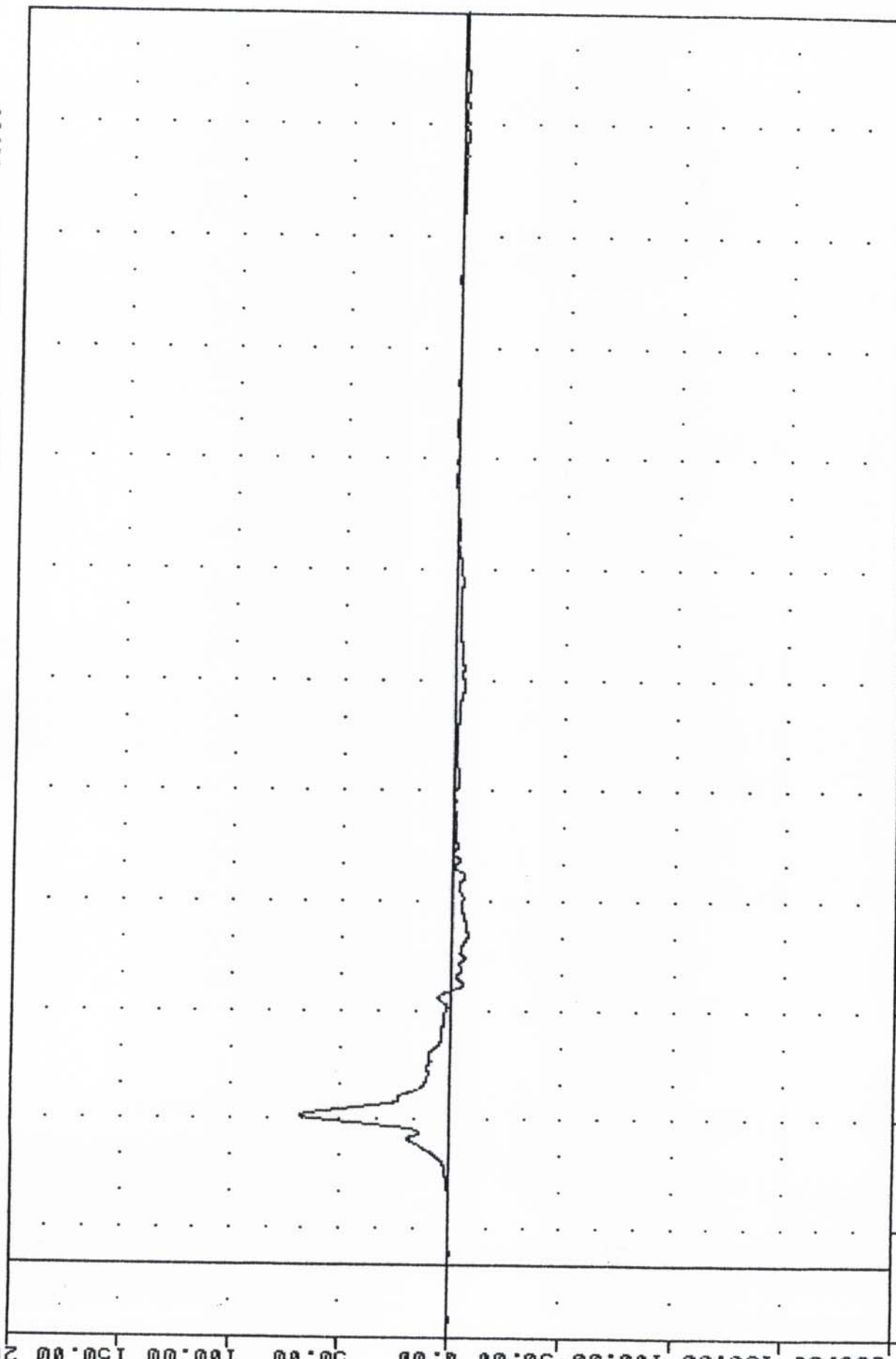
PL0T UNIE 23-AUG-84 12:40.36

FILTER = BLPF 300/ 949/ -40

MIN, MAX VALUES = -7.07e 90.38, 67.81 e 41.00

ACCELERATION (G)

B-32



TIME (MSEC)

45 DEGREE VOLKSWAGEN RABBIT INTO FIXED POLE
DRIVER PELVIS ACCELERATION Y AXIS

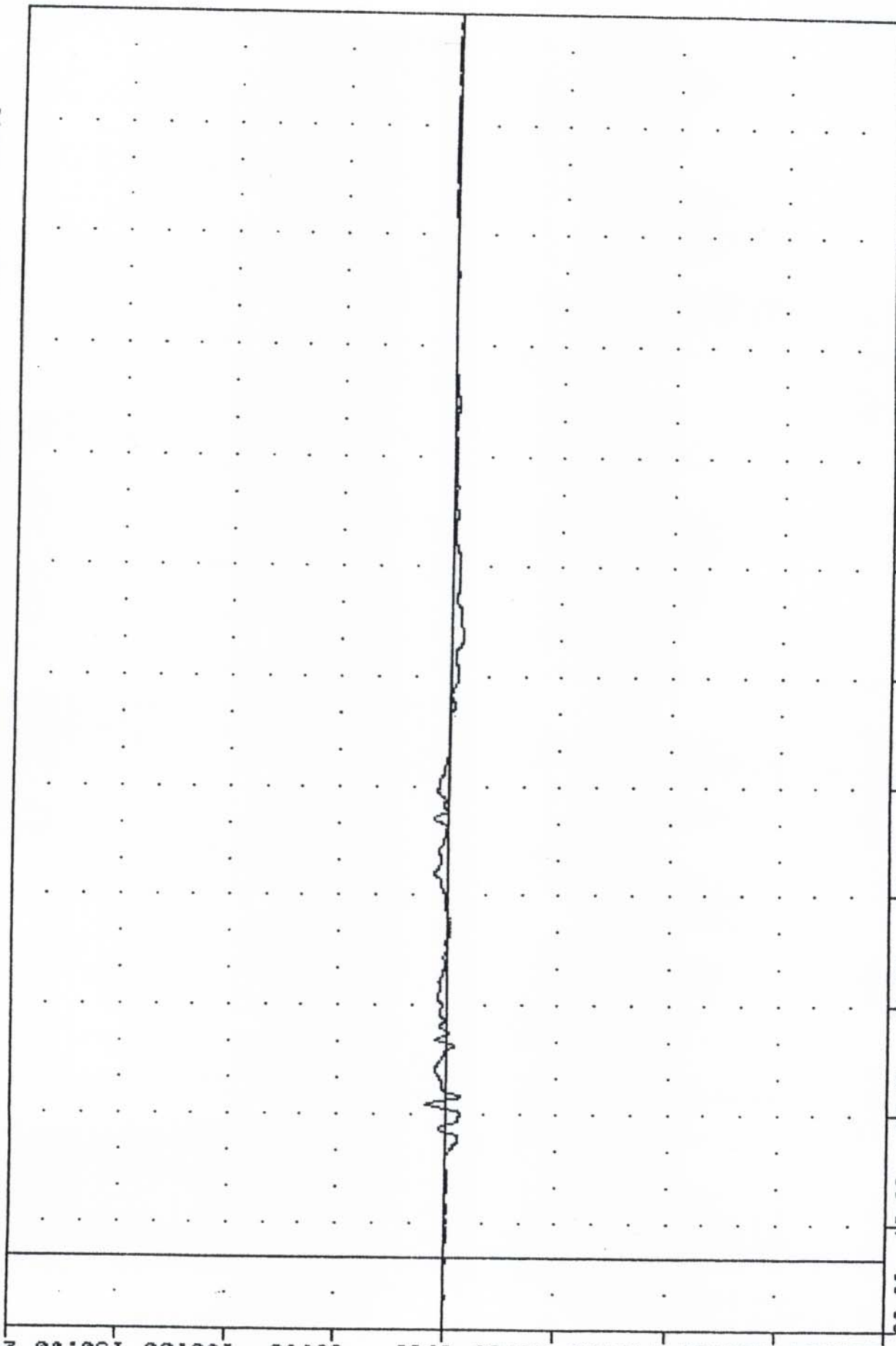
RC 840003
SIDE AGGRESSIVE ATTRIBUTES
84216000000
PEVZ61

LOT TIME 23-AUG 84 12:40.36

FILTER = BLPF 300/ 949/ -40

MIN. MAX VALUES = -6.36e 40.00, 9.36 e 42.63

B-33
ACCELERATION (G)
-200.00 -150.00 -100.00 -50.00 0.00 50.00 100.00 150.00 200.00



TIME (MSEC)
-20.00 10.00 40.00 70.00 100.00 130.00 160.00 190.00 220.00 250.00 280.00 310.00 340.00

45 DEGREE VOLKSWAGEN RABBIT INTO FIXED POLE
DRIVER PELVIS ACCELERATION Z AXIS

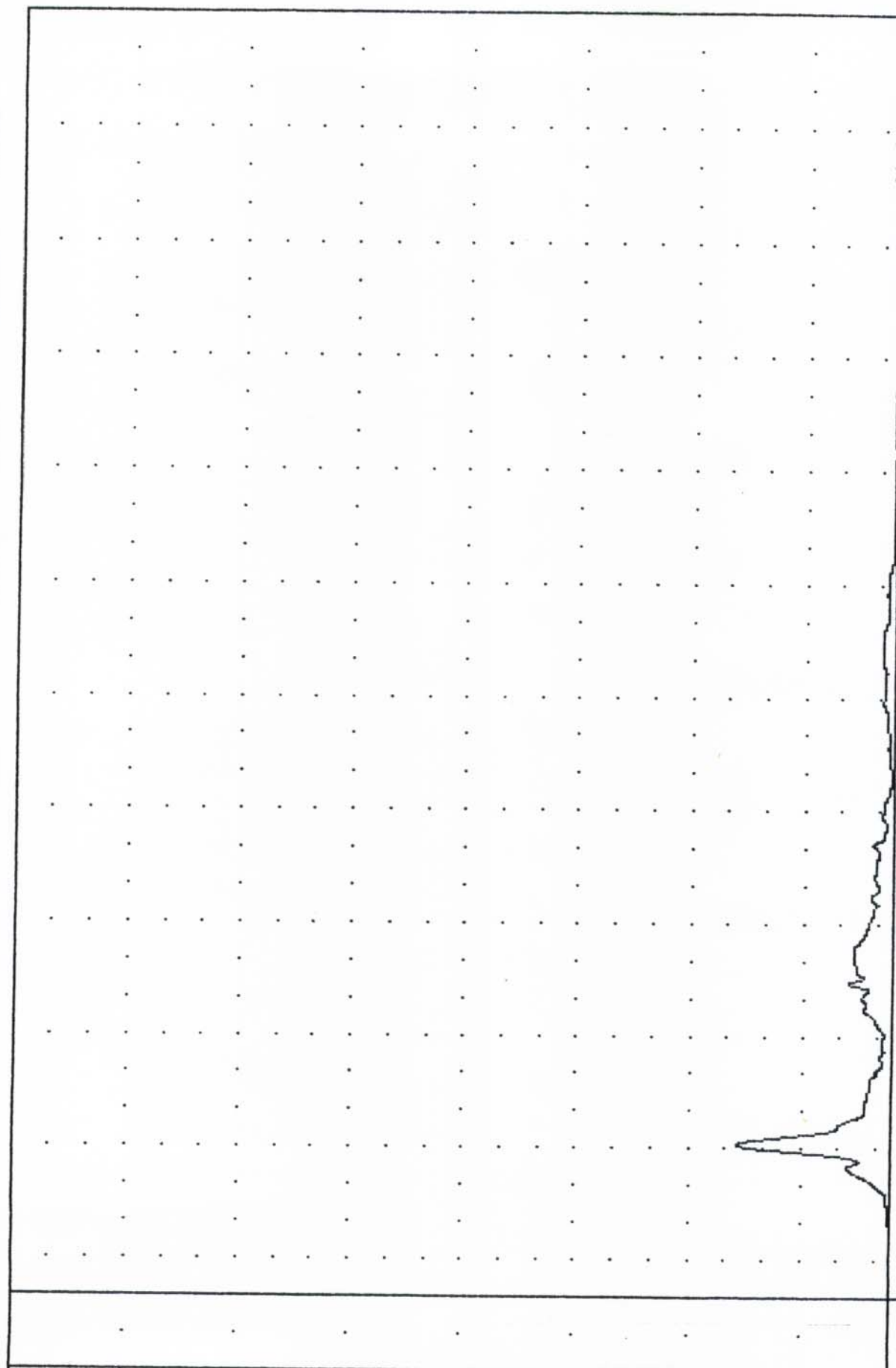
... 040800
SIDE AGGRESSIVE ATTRIBUTES
84216000000
PEVRG1

PLU, DATE 20 JUG 00 12:48:00

FILTER = BLPF 300/ 949/ -40

MIN, MAX VALUES = 0.028 -8.13, 58.22 8 41.00

ACCELERATION (G)



TIME 0800
SIDE AGGRESSIVE ATTRIBUTES

PLC, DATA 20 1116-04 13.04:11

84216000000

PEVYV1

FILTER = BLPF 300/ 949/ -40

MIN. MAX VALUES = -17.718 -13.88,

-1.45 e 75.50

40.00

30.00

20.00

10.00

0.00

-10.00

-20.00

-30.00

-40.00

B-35

VELOCITY (MPH)

-20.00

10.00

40.00

70.00

100.00

130.00

160.00

190.00

220.00

250.00

280.00

310.00

340.00

TIME (MSEC)

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
DELTA V USING PEVYGI

RC
SIDE AGGRESSIVE ATTRIBUTES

84216000000

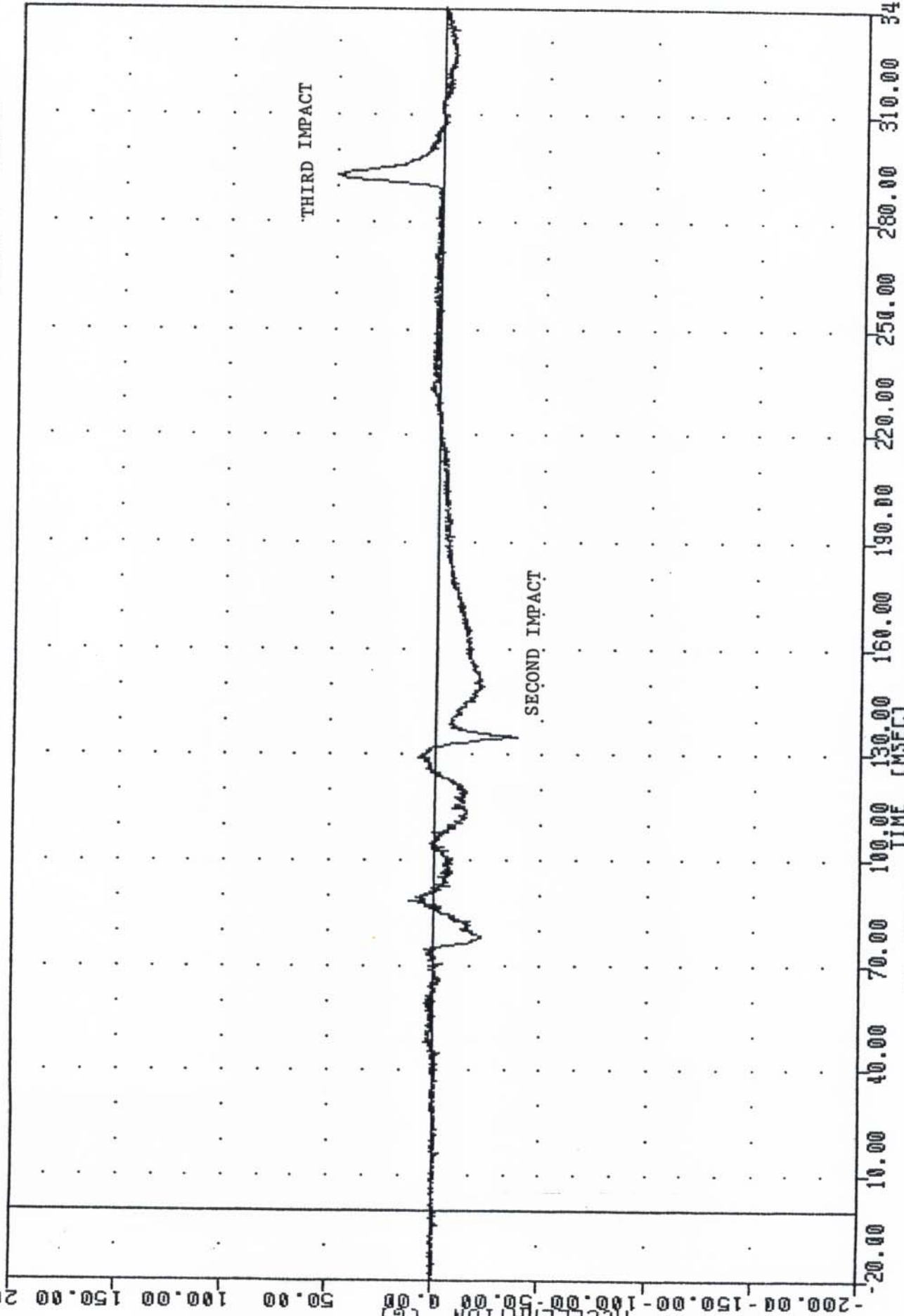
HEDXG3

LOT DATE 23-JUN-84 12:40.36

FILTER = ALPF 1650/ 5217/ -40

MIN, MAX VALUES = -37.53 134.88, 50.44 293.00

B-36
ACCELERATION (G)



45 DEGREE VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER HEAD ACCELERATION X AXIS

.0T [....E [3-AL 34 [.2:40.06

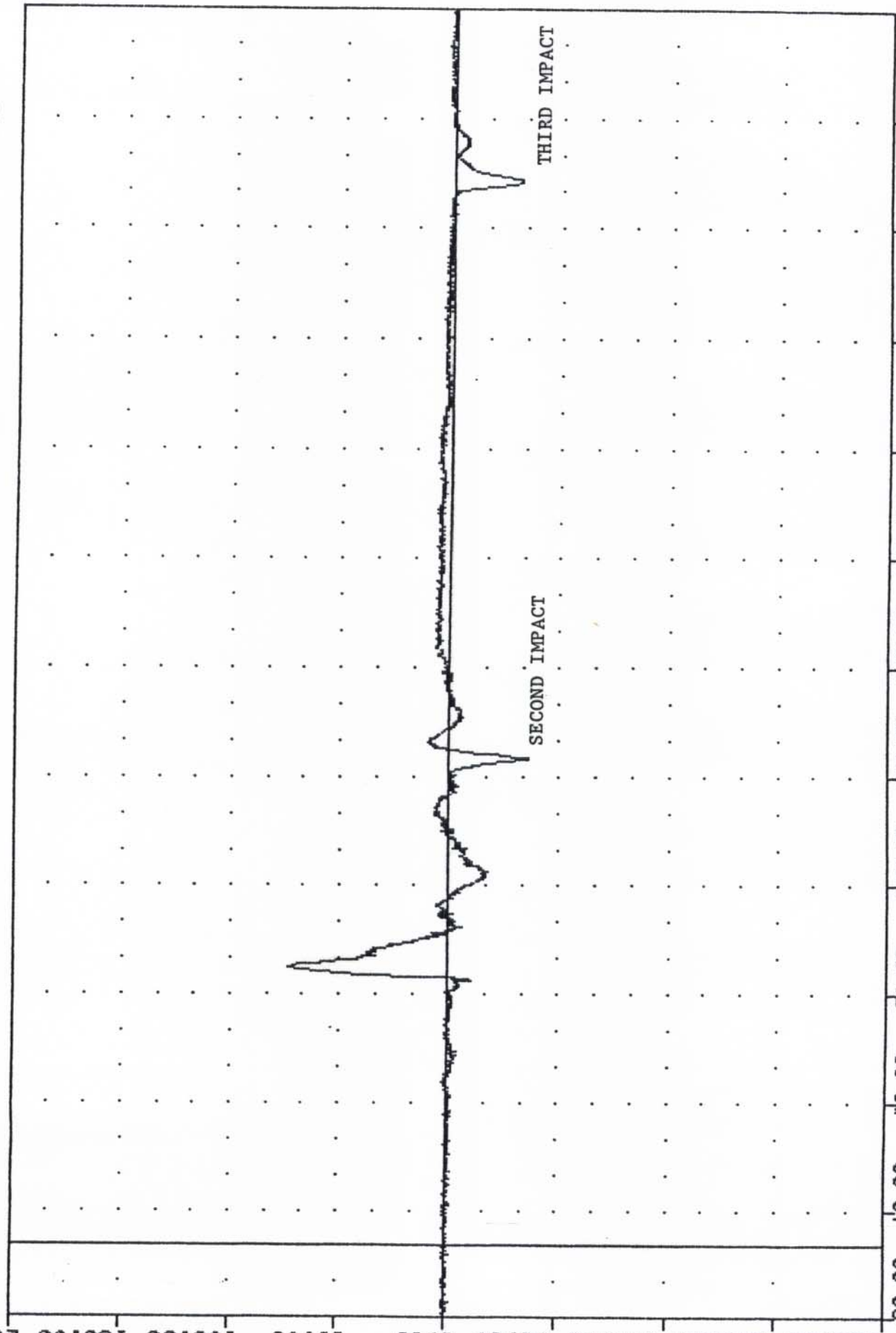
.HC [.840003
SIDE AGGRESSIVE ATTRIBUTES

84216000000
HEDY63

FILTER = ALPF 1650/ 5217/ -40

MIN, MAX VALUES = -36.04e 134.75, 73.39 e 77.38

ACCELERATION (G)



B-37

TIME (NSEC)

45 DEGREE VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER HEAD ACCELERATION Y AXIS

RC 84216000000
LOT 001E 23-NOV 84 12:40.36

84216000000
SIDE AGGRESSIVE ATTRIBUTES

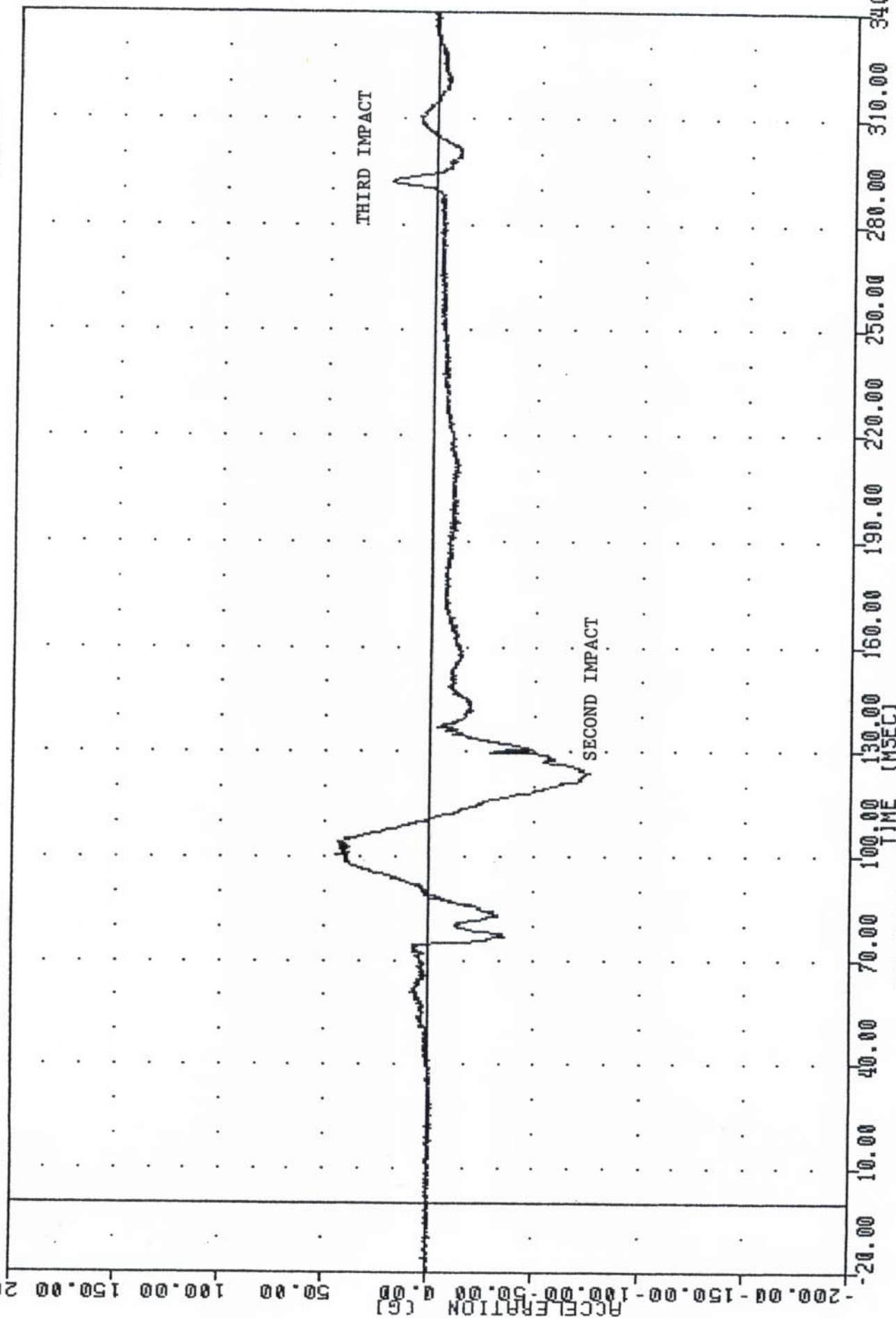
84216000000

HEDZG3

FILTER = ALPF 1650/ 5217/ -40

MIN. MAX VALUES = -75.56 123.38 44.70 100.38

ACCELERATION (G)



B-38

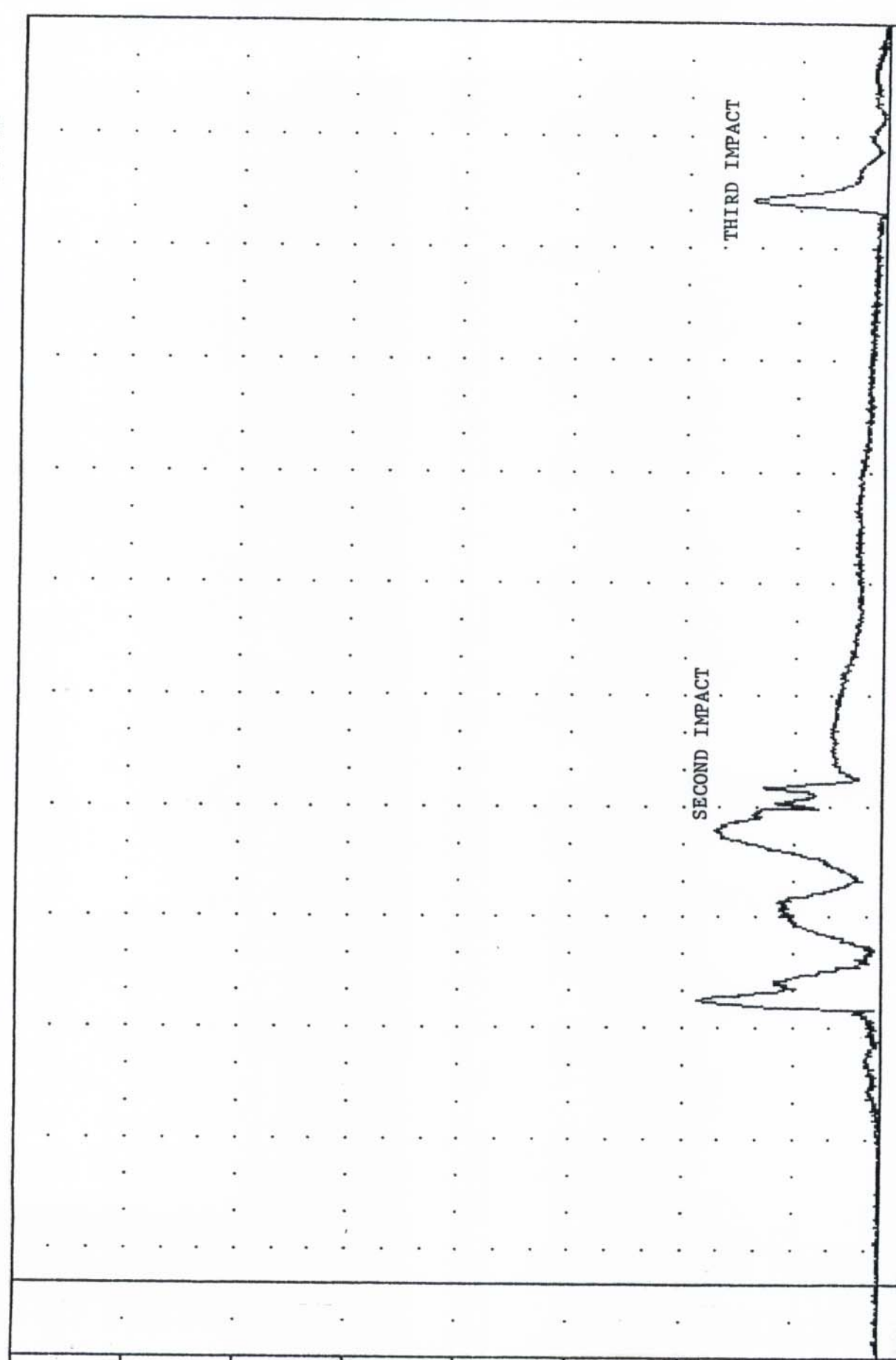
45 DEGREE VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER HEAD ACCELERATION Z AXIS

PLU, DATE 23 JUN 84 12:48:50

000000000000
SIDE AGGRESSIVE ATTRIBUTES
842160000000
HEAD63

FILTER = ALPF 1650/ 5217/ -40
MIN, MAX VALUES = 0.13e -16.50, 83.50 e 77.50

ACCELERATION (G)
-10.00 40.00 90.00 140.00 190.00 240.00 290.00 340.00 390.00



TIME (MSEC)
-20.00 10.00 40.00 70.00 100.00 130.00 160.00 190.00 220.00 250.00 280.00 310.00 340.00

45 DEGREE VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER HEAD RESULTANT

PLC, DATE 25 JUN 82 12:01:22

11.0
SIDE AGGRESSIVE ATTRIBUTES

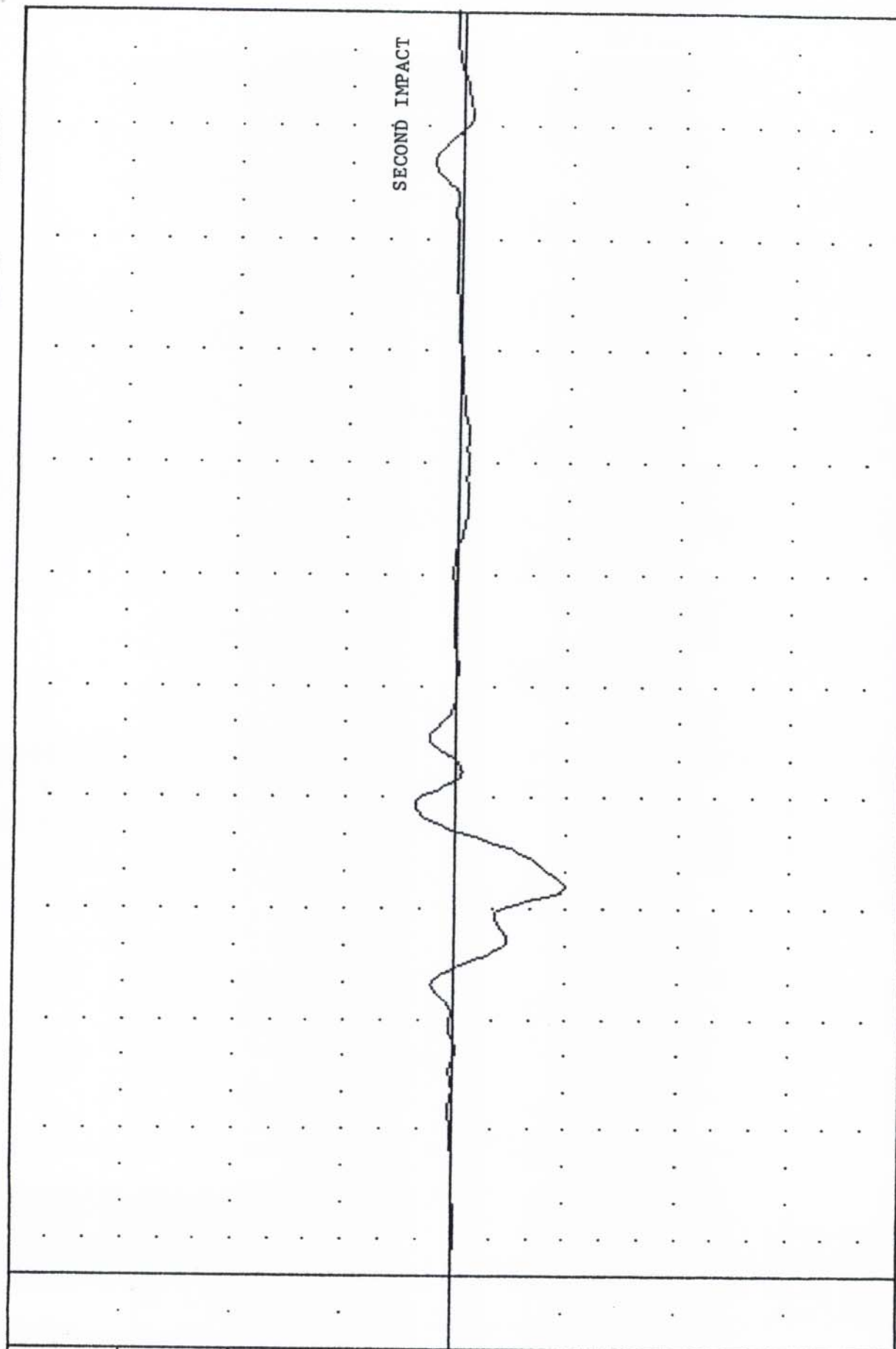
84216000000

701XG3

FILTER = HSRI 136/ 189/ -50

MIN, MAX VALUES = -49.75 105.00, 18.62 127.50

ACCELERATION [G]



TIME (MSEC)

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER UPPER SPINE ACCELERATION X AXIS

TIN 040800

SIDE AGGRESSIVE ATTRIBUTES

84216000000

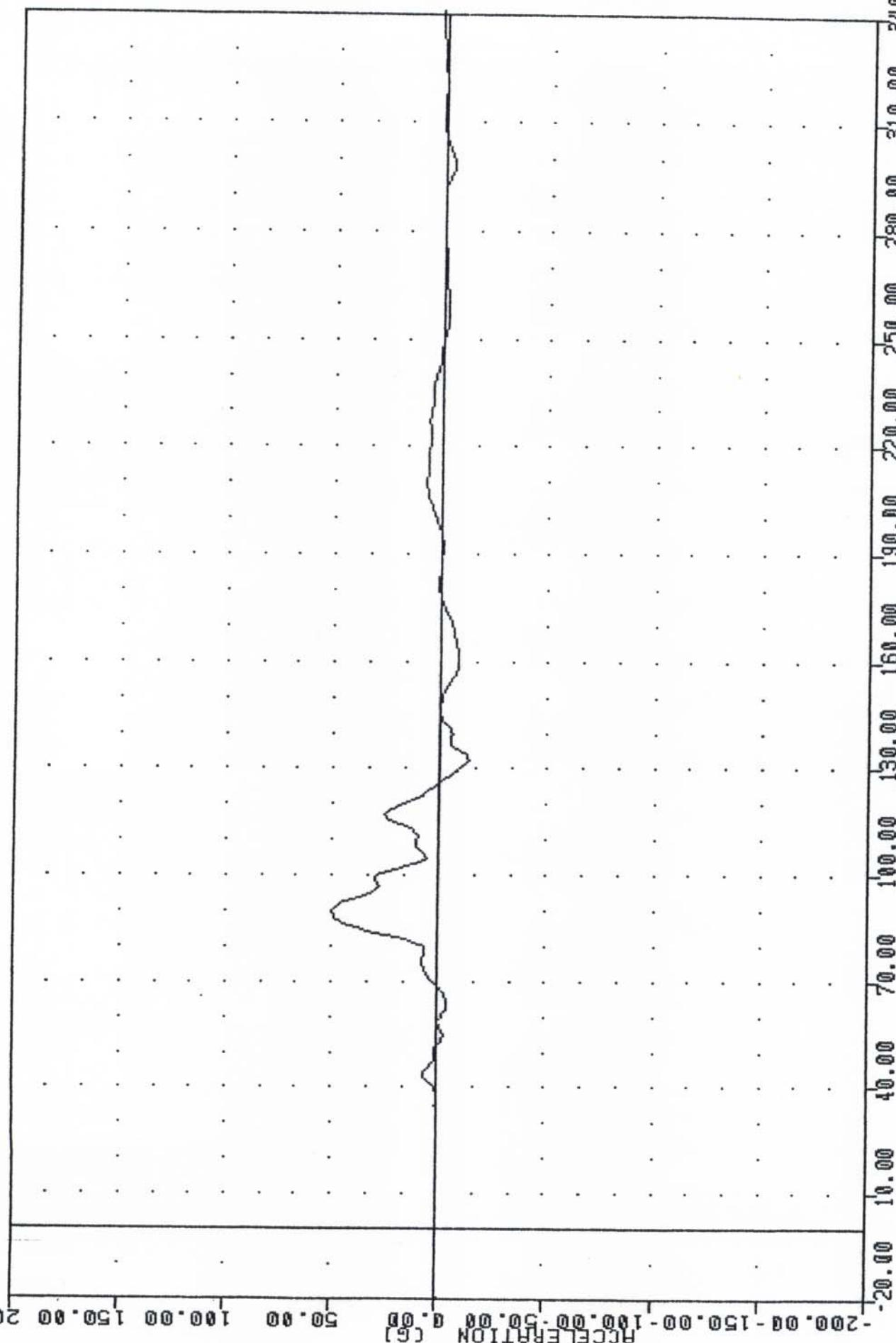
T01Y63

PLU1 DATE 25-JUG-64 12:31:27

FILTER = HSRI 136/ 189/ -50

MIN. MAX VALUES = -13.17 131.88, 49.74 88.75

ACCELERATION (G)



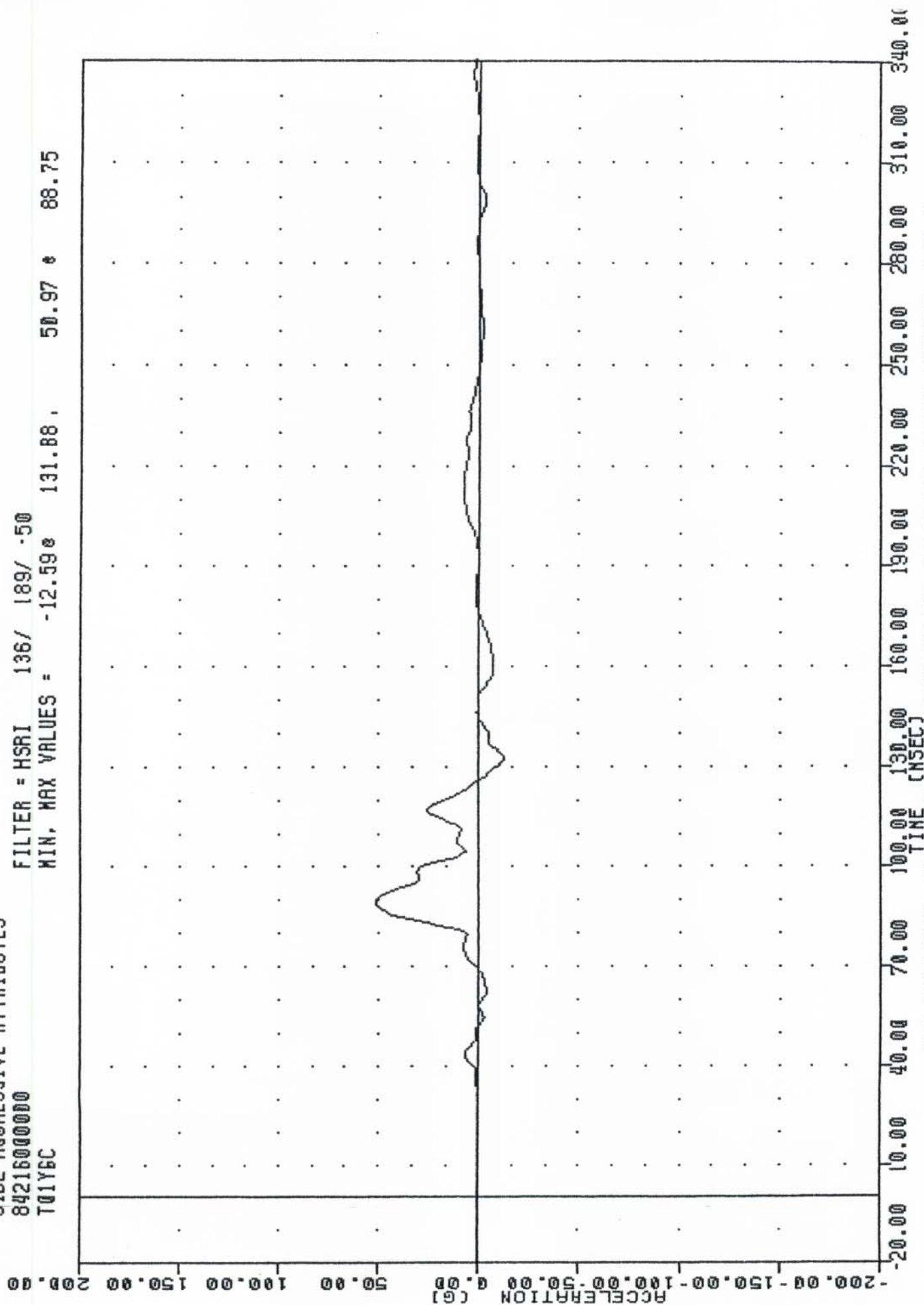
B-41

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER UPPER SPINE ACCELERATION Y AXIS

THU 840803
 SIDE AGGRESSIVE ATTRIBUTES
 84216000000
 T01Y6C

PLU1 DATE 23-MAR-84 12:31:27

FILTER = HSRI 136/ 189/ -50
 MIN, MAX VALUES = -12.590 131.88, 50.97 88.75

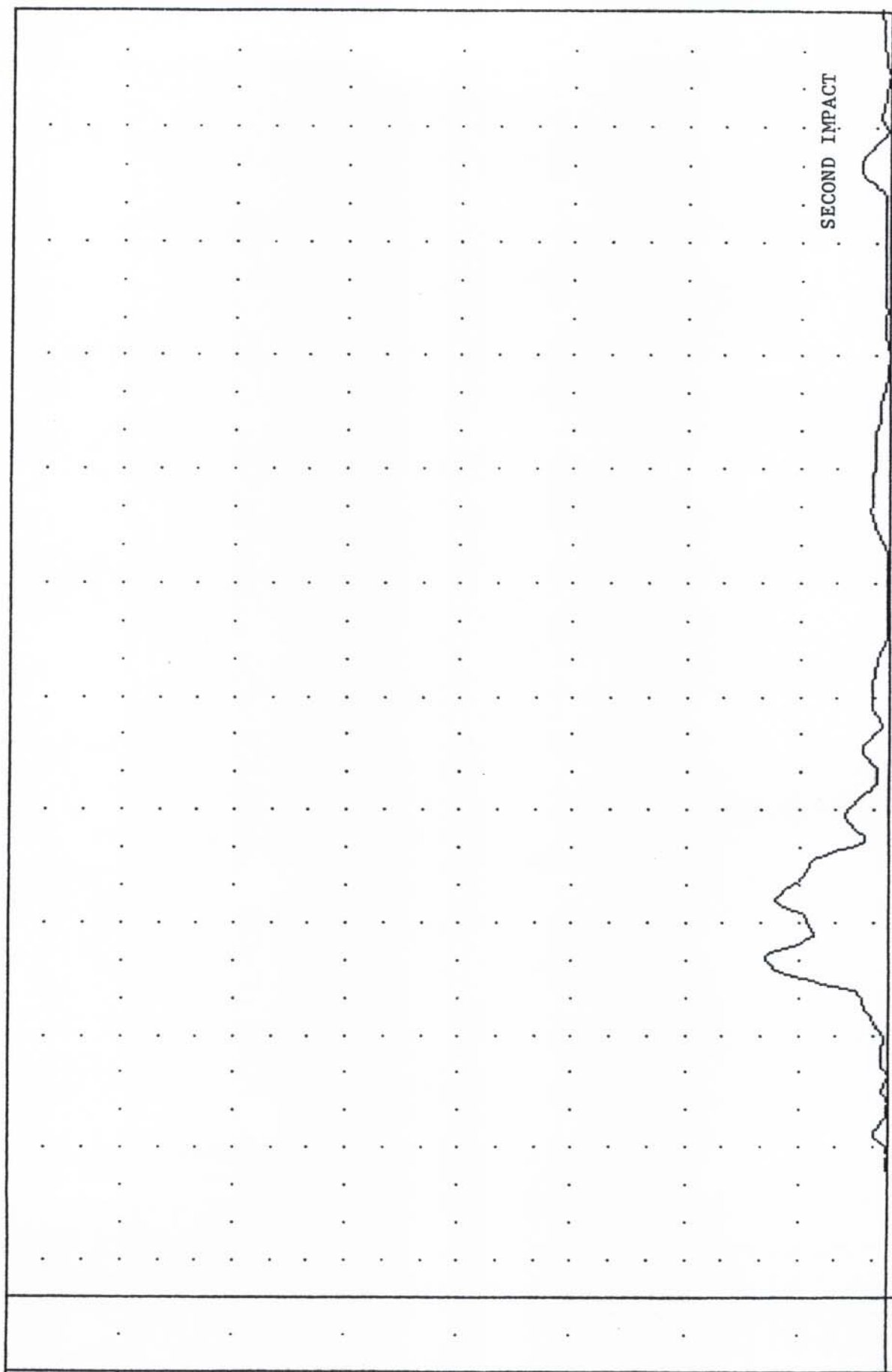


TIME
SIDE AGGRESSIVE ATTRIBUTES
84216000000
T01RG3

PLU1 DATE 23-MUG-04 12:51:21

FILTER = HSRI 136/ 189/ -50
MIN. MAX VALUES = 0.078 5.00, 54.40 e 89.38

ACCELERATION (G)



-20.00 10.00 40.00 70.00 100.00 130.00 160.00 190.00 220.00 250.00 280.00 310.00 340.00

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER UPPER SPINE RESULTANT USING ONLY X AND T01YG3

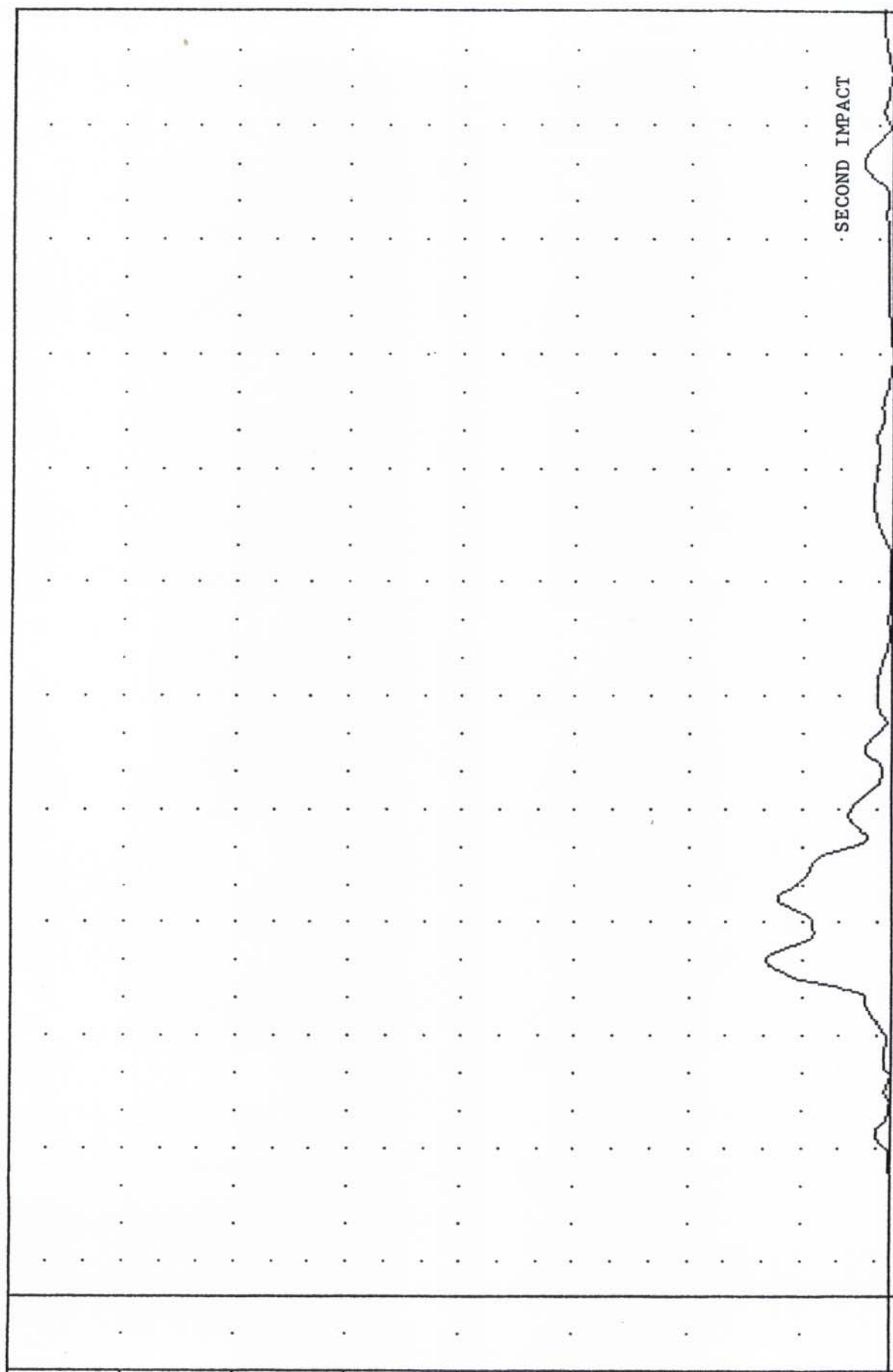
TLC 040805
 SIDE AGGRESSIVE ATTRIBUTES
 84216000000
 T01R6C

PLU1 DATE 23-nov-84 12:02:27

FILTER = HSRI 136/ 189/ -50

MIN, MAX VALUES = 0.07e 249.38 , 55.48 e 89.38

ACCELERATION (G)



-20.00 10.00 40.00 70.00 100.00 130.00 160.00 190.00 220.00 250.00 280.00 310.00 340.00

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
 PASSENGER UPPER SPINE RESULTANT USING X AND T01YGC

Thc , 840803
SIDE AGGRESSIVE ATTRIBUTES
84216000000
T01YV3

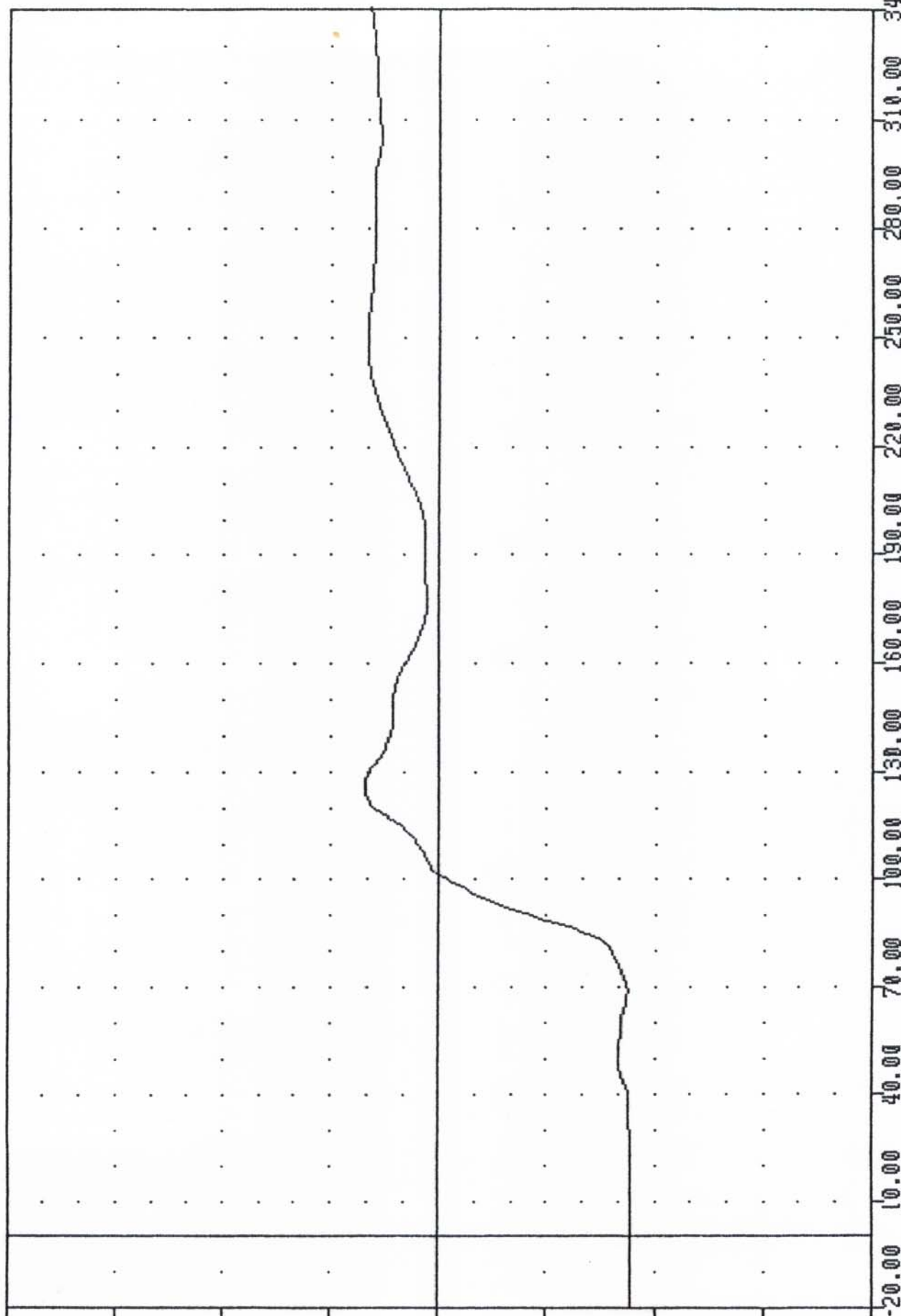
PLU1 DATE 23-MAR-84 12:07:14

FILTER = HSRI 136/ 189/ -50

MIN, MAX VALUES = -17.74e 12.50, 6.92 e 125.00

40.00
30.00
20.00
10.00
0.00
-10.00
-20.00
-30.00
-40.00

VELOCITY (MPH)

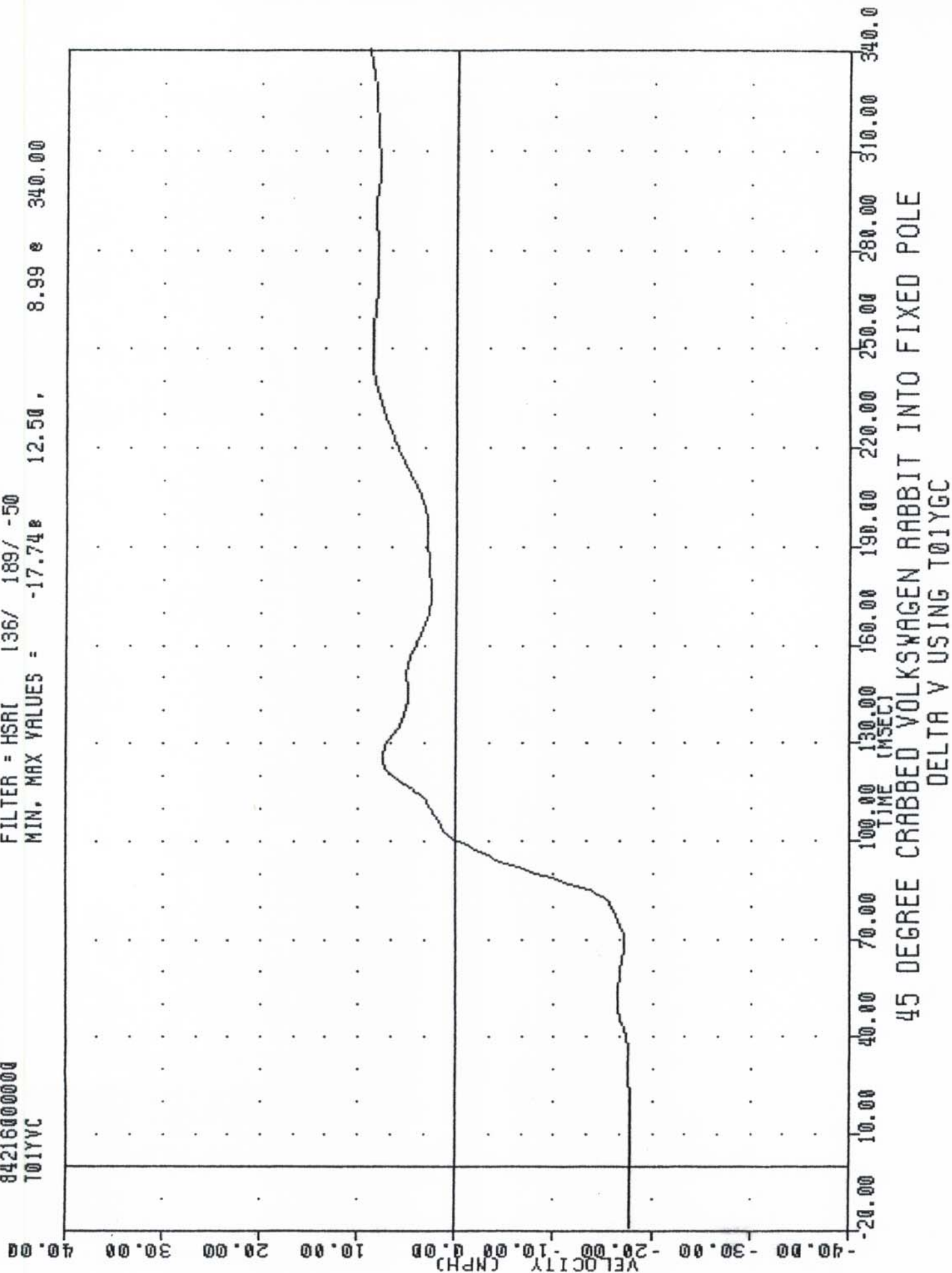


45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
DELTA V USING T01YV3

TWO
SIDE AGGRESSIVE ATTRIBUTES
84216000000
T01YVC

PLU, DATE 20 JUN 67 12:37:14

FILTER = HSRI 136/ 189/ -50
MIN, MAX VALUES = -17.74 12.50, 8.99 e 340.00

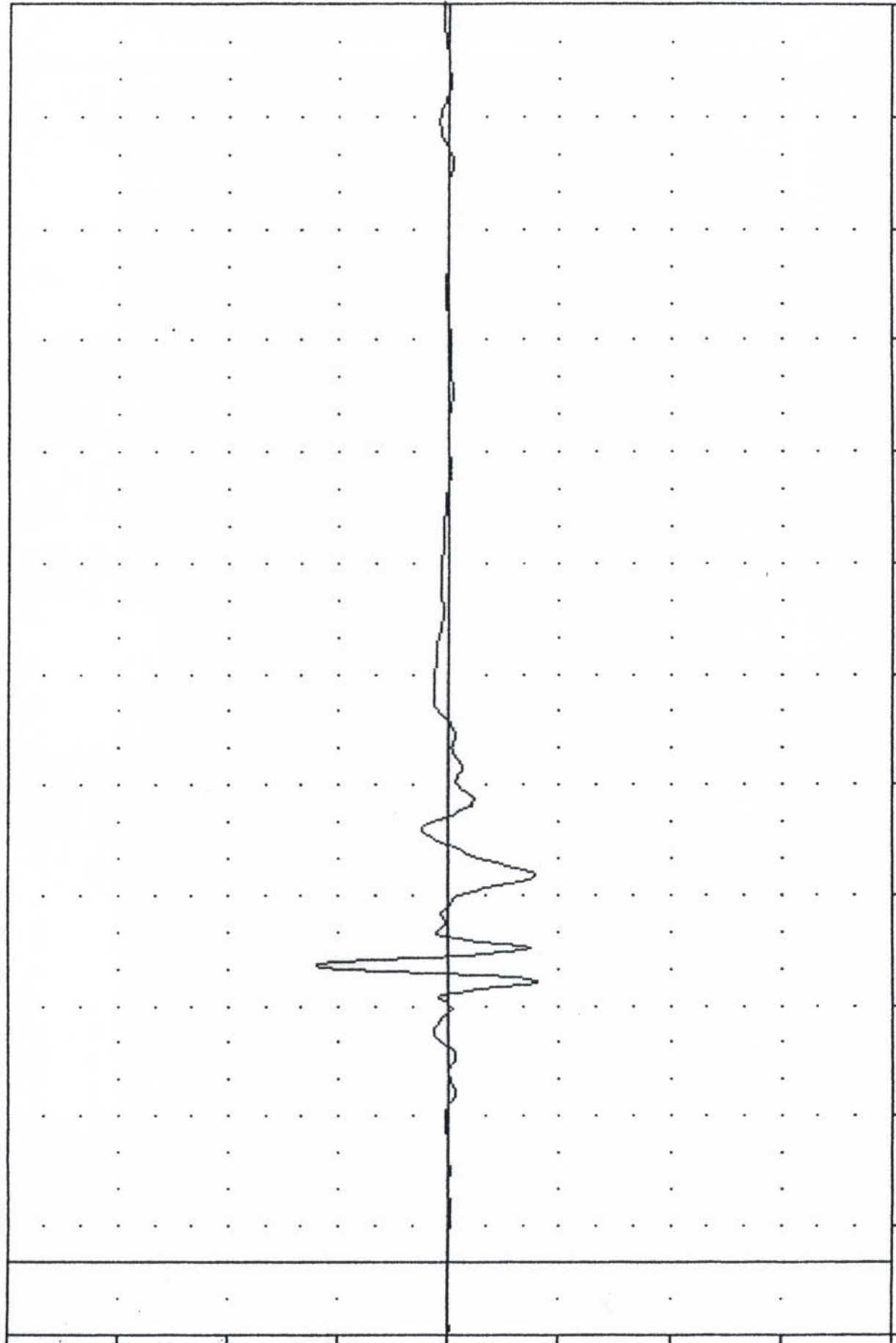


TIME 040800
SIDE AGGRESSIVE ATTRIBUTES
84216000000
712XG3

PLU, DATA 2J AUG-04 12:31:27

FILTER = HSRI 136/ 189/ -50
MIN, MAX VALUES = -40.30 75.62, 59.41 80.63

ACCELERATION (G)



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER LOWER SPINE ACCELERATION X AXIS

PLU, DRTL 25, JG-8z 14.1:2,

T110
SIDE AGGRESSIVE ATTRIBUTES

84216000000

T12Y63

FILTER = HSRI 136/ 189/ -50

MIN, MAX VALUES = -13.62e 109.38, 49.95 e 78.75

200.00

150.00

100.00

50.00

0.00

-50.00

-100.00

-150.00

-200.00

ACCELERATION (G)

20.00

40.00

60.00

80.00

100.00

120.00

140.00

160.00

180.00

200.00

220.00

240.00

260.00

280.00

300.00

320.00

340.00

TIME (MSEC)

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER LOWER SPINE ACCELERATION Y AXIS

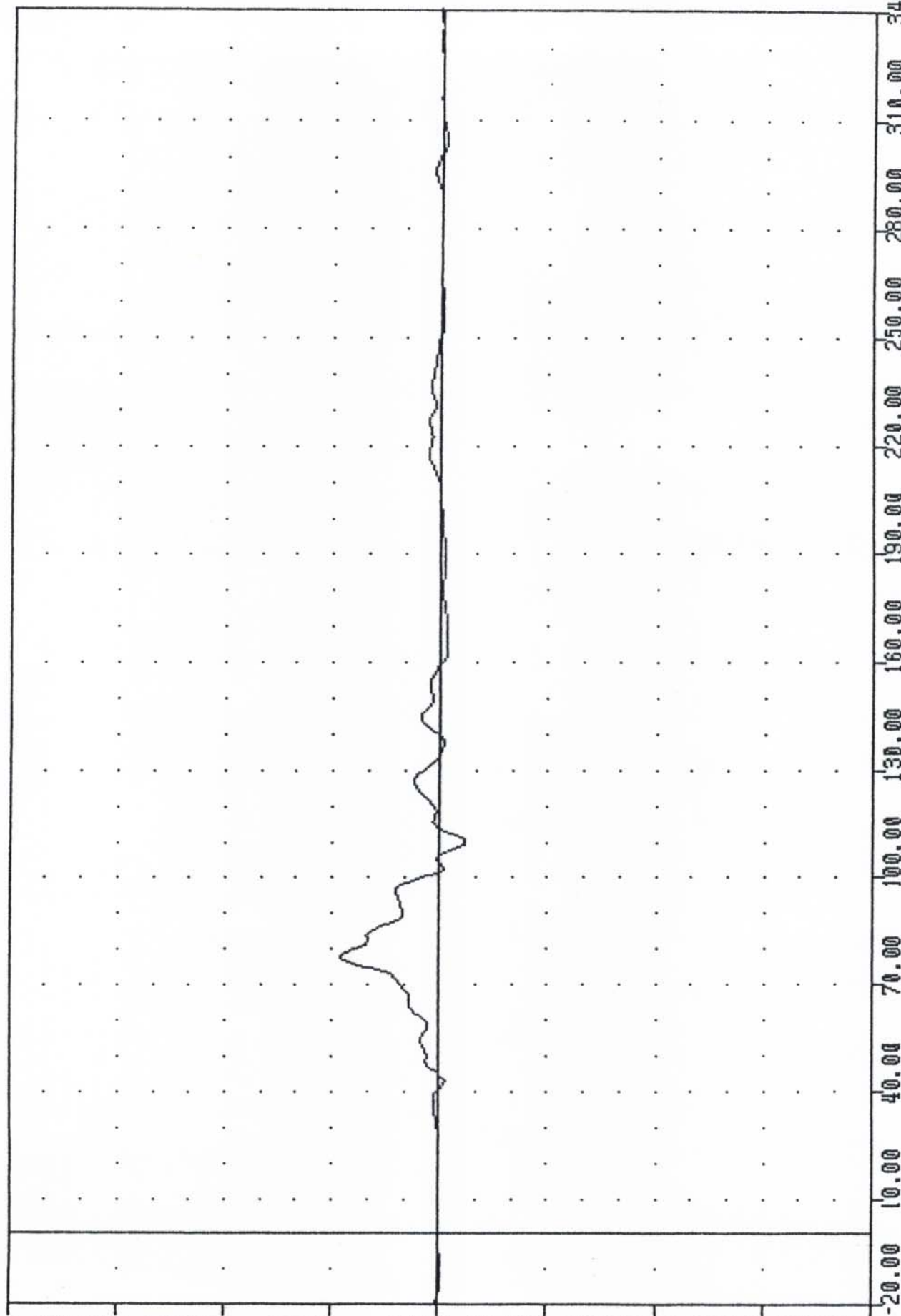
THE
SIDE AGGRESSIVE ATTRIBUTES
84216000000
T12Y6C

PLU, DATE 23-nov-84 12:11:27

FILTER = HSRI 136/ 189/ -50

MIN, MAX VALUES = -11.738 109.38, 46.36 & 76.88

ACCELERATION [G]



B-49

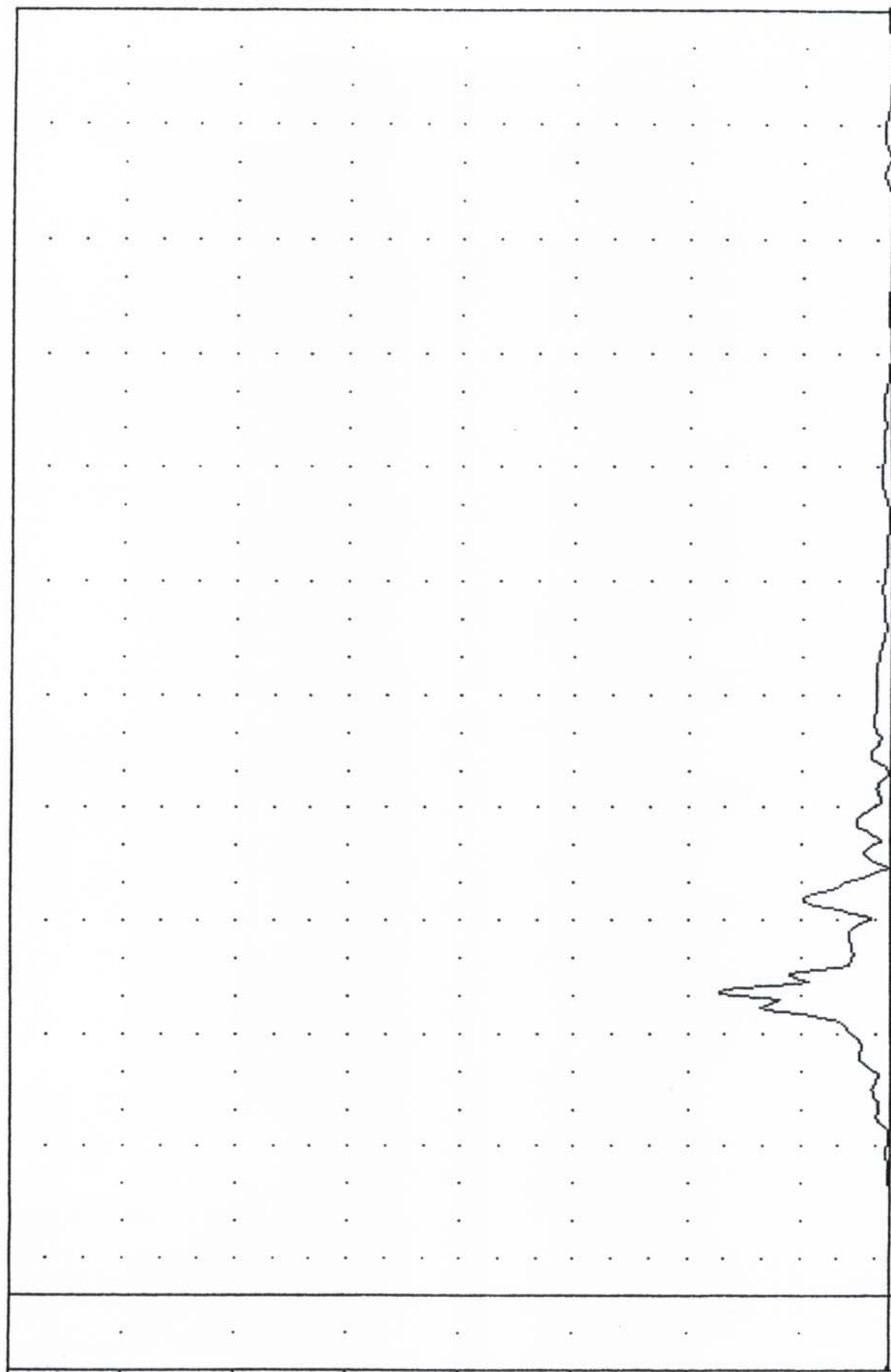
45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER LOWER SPINE ACCELERATION -2 Y AXIS

THE
SIDE AGGRESSIVE ATTRIBUTES
84216000000
T12RG3

PLU1 DATE 25-MUG-84 12:31:21

FILTER = HSRI 136/ 189/ -50
MIN, MAX VALUES = 0.028 -16.87, 75.84 80.00

ACCELERATION (G)



-20.00 10.00 40.00 70.00 100.00 130.00 160.00 190.00 220.00 250.00 280.00 310.00 340.00
TIME (msec)

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER LOWER SPINE RESULTANT USING ONLY X AND T12Y63

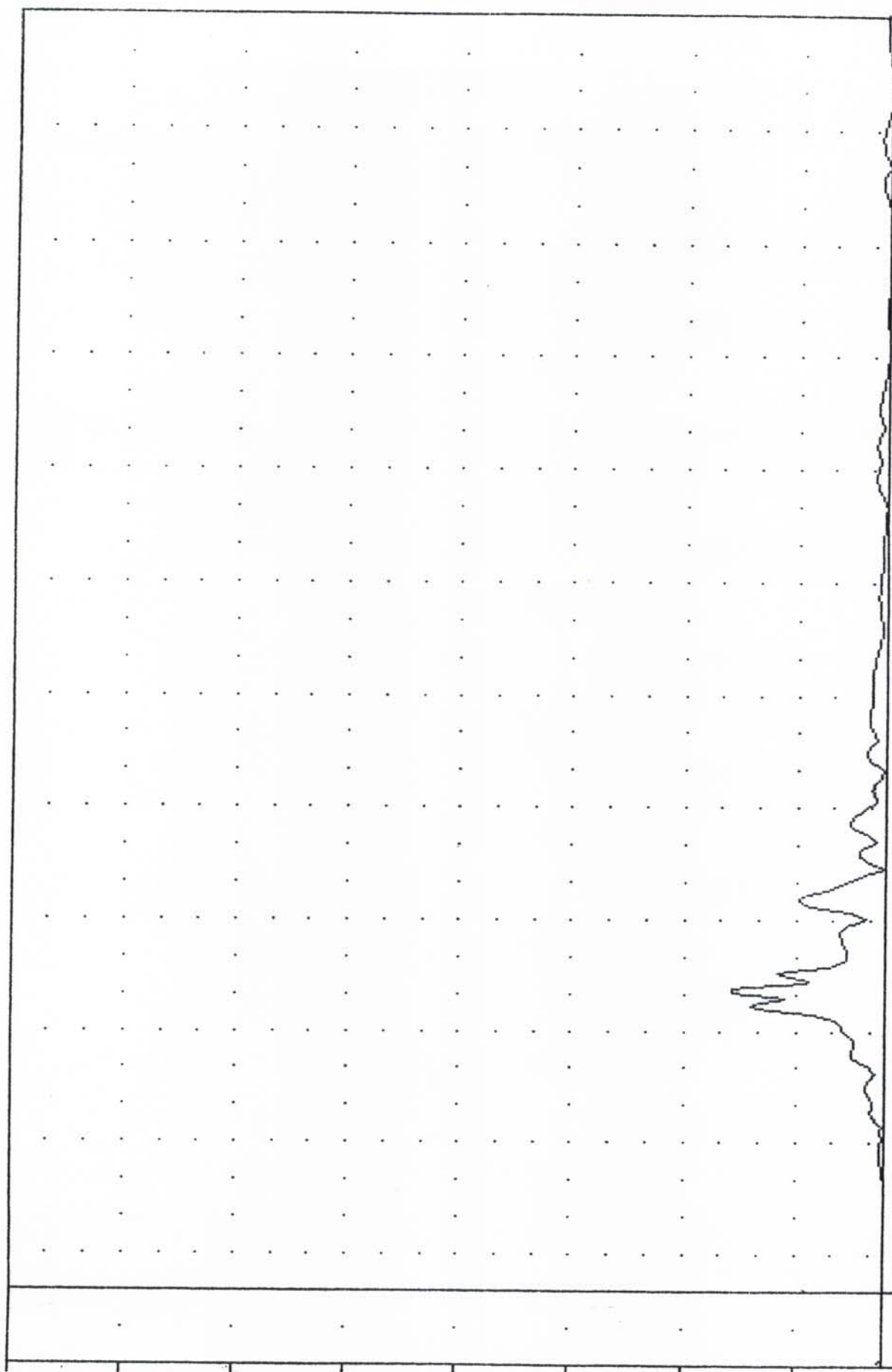
PLU1 DATE 23-NOV-84 12:52:21

Inc 040800
SIDE AGGRESSIVE ATTRIBUTES
84216000000
T12RGC

FILTER = HSRI 136/ 189/ -50

MIN, MAX VALUES = 0.03% 0.00, 68.77 % 80.63

ACCELERATION (G)
-10.00 40.00 90.00 140.00 190.00 240.00 290.00 340.00 390.00



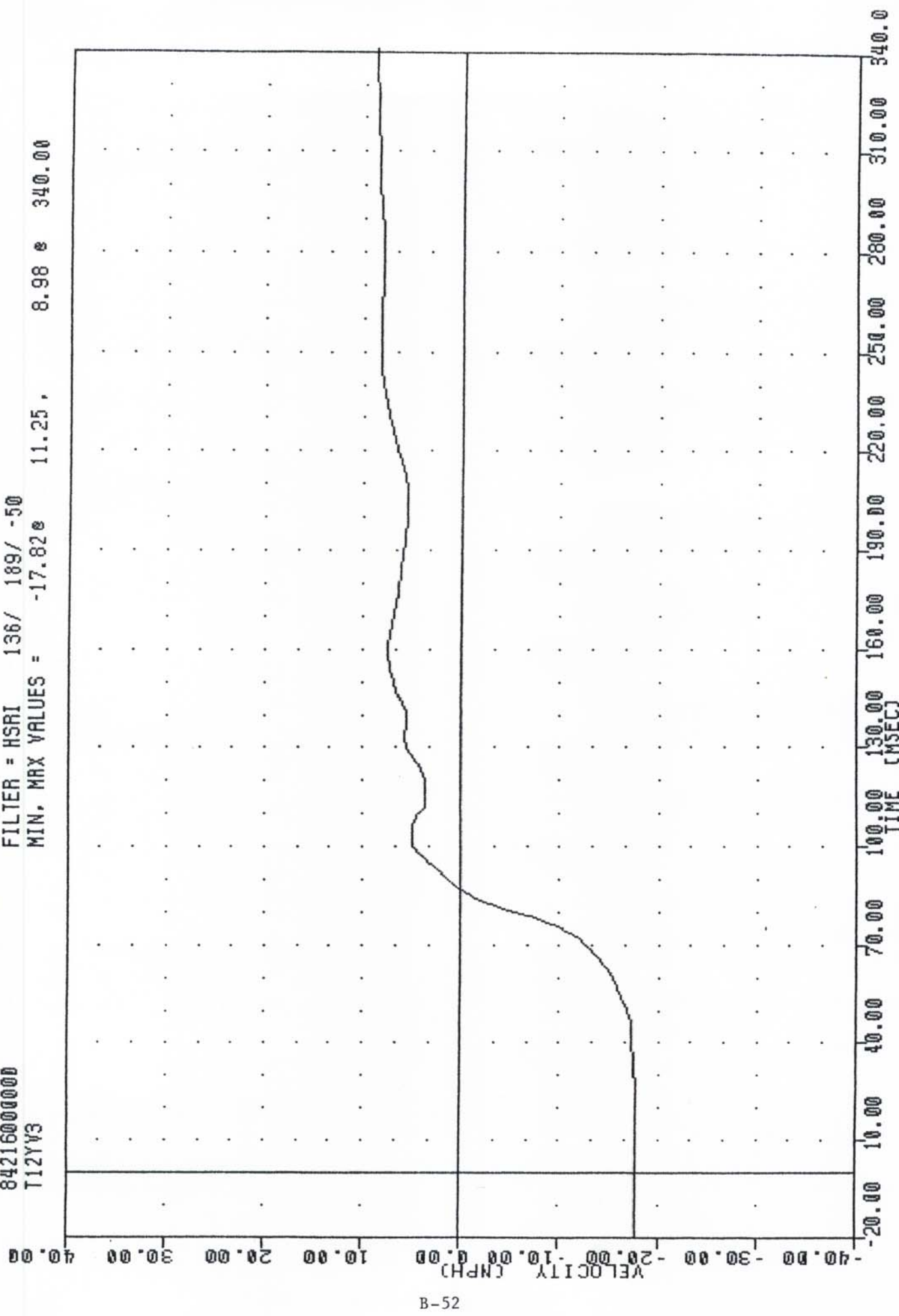
-20.00 10.00 40.00 70.00 100.00 130.00 160.00 190.00 220.00 250.00 280.00 310.00 340.00

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER LOWER SPINE RESULTANT USING X AND T12Y6C

T110 040800
 SIDE AGGRESSIVE ATTRIBUTES
 84216000000
 T12YV3

PLU1 DATL 2J-11G-64 12.37:14

FILTER = HSRI 136/ 189/ -50
 MIN, MAX VALUES = -17.82 11.25, 8.98 340.00



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
 DELTA V USING T12YV3

PLU, DATL 25-JUN-84 12:37:14

T110 SIDE AGGRESSIVE ATTRIBUTES

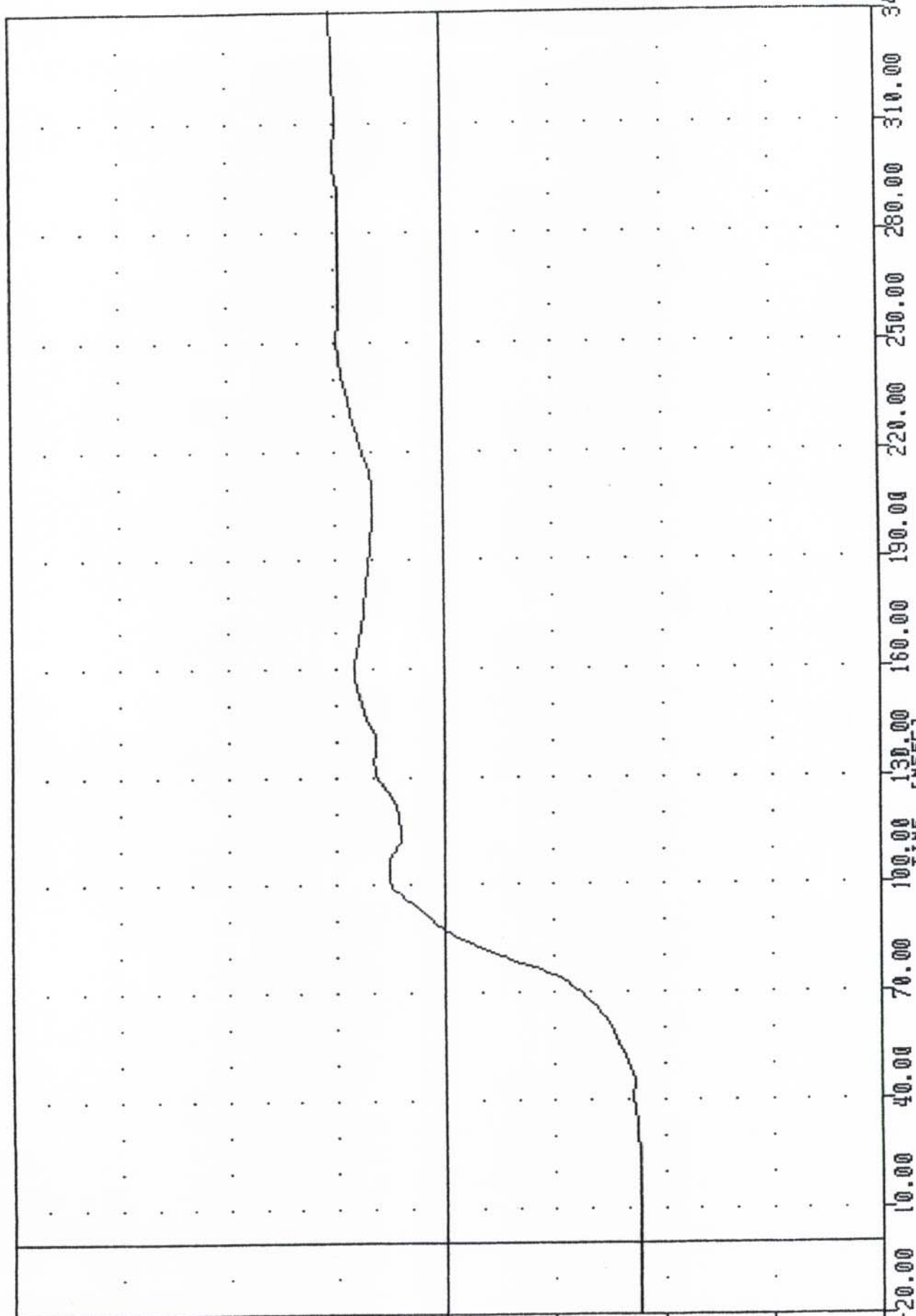
84216000000

T12YVC

FILTER = HSRI 136/ 189/ -50

MIN, MAX VALUES = -17.83e 0.00, 10.27 e 340.00

VELOCITY (MPH)



B-53

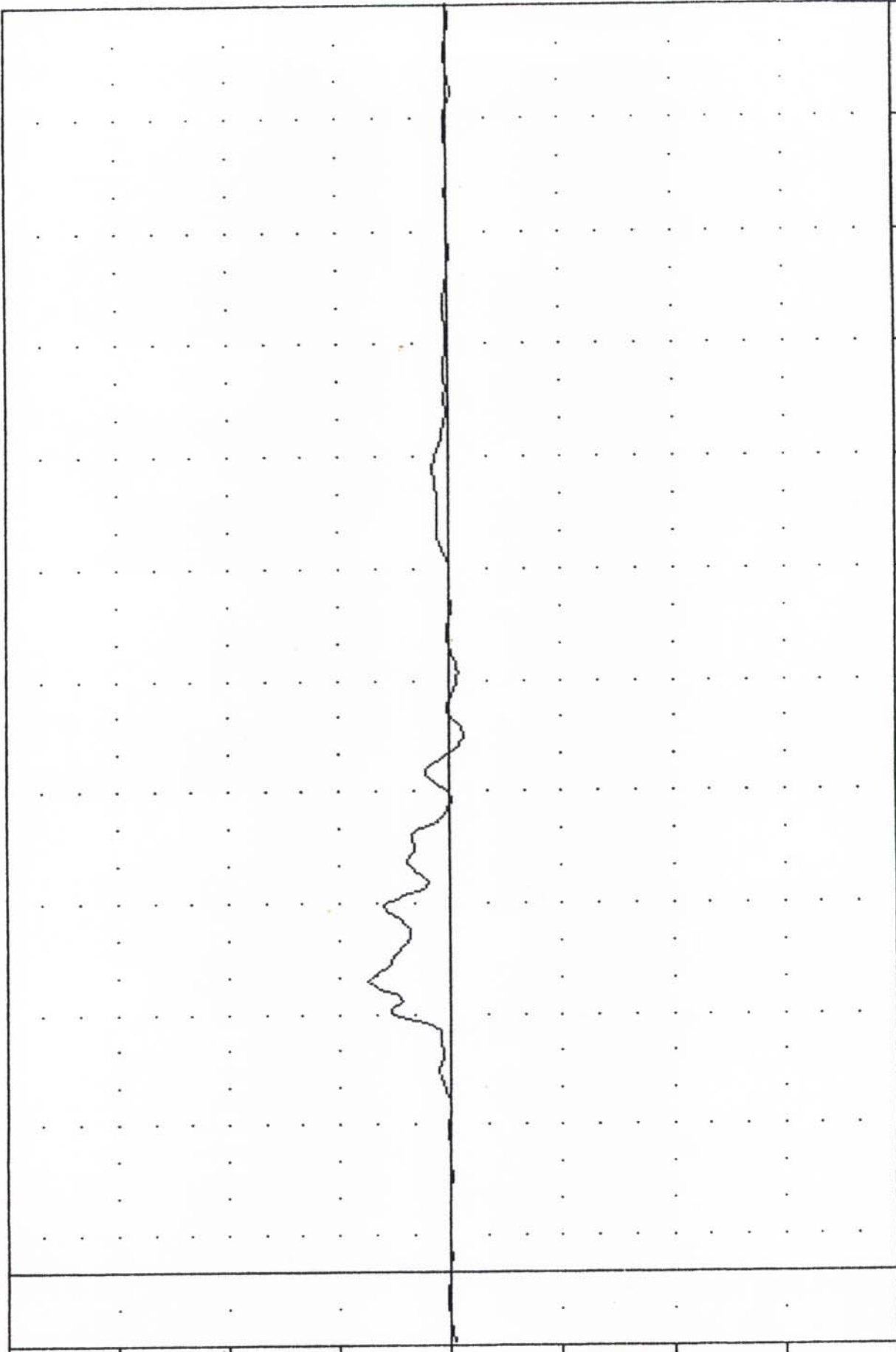
45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
DELTA V USING T12YGC

PLU1 DATE 25-nUG-64 12:31:27

TIME 040800
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LURYG3

FILTER = HSRI 136/ 189/ -50
MIN. MAX VALUES = -5.928 145.00, 37.02 78.13

ACCELERATION (G)



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER LEFT UPPER RIB ACCELERATION Y AXIS

T... 000000
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LURYV3

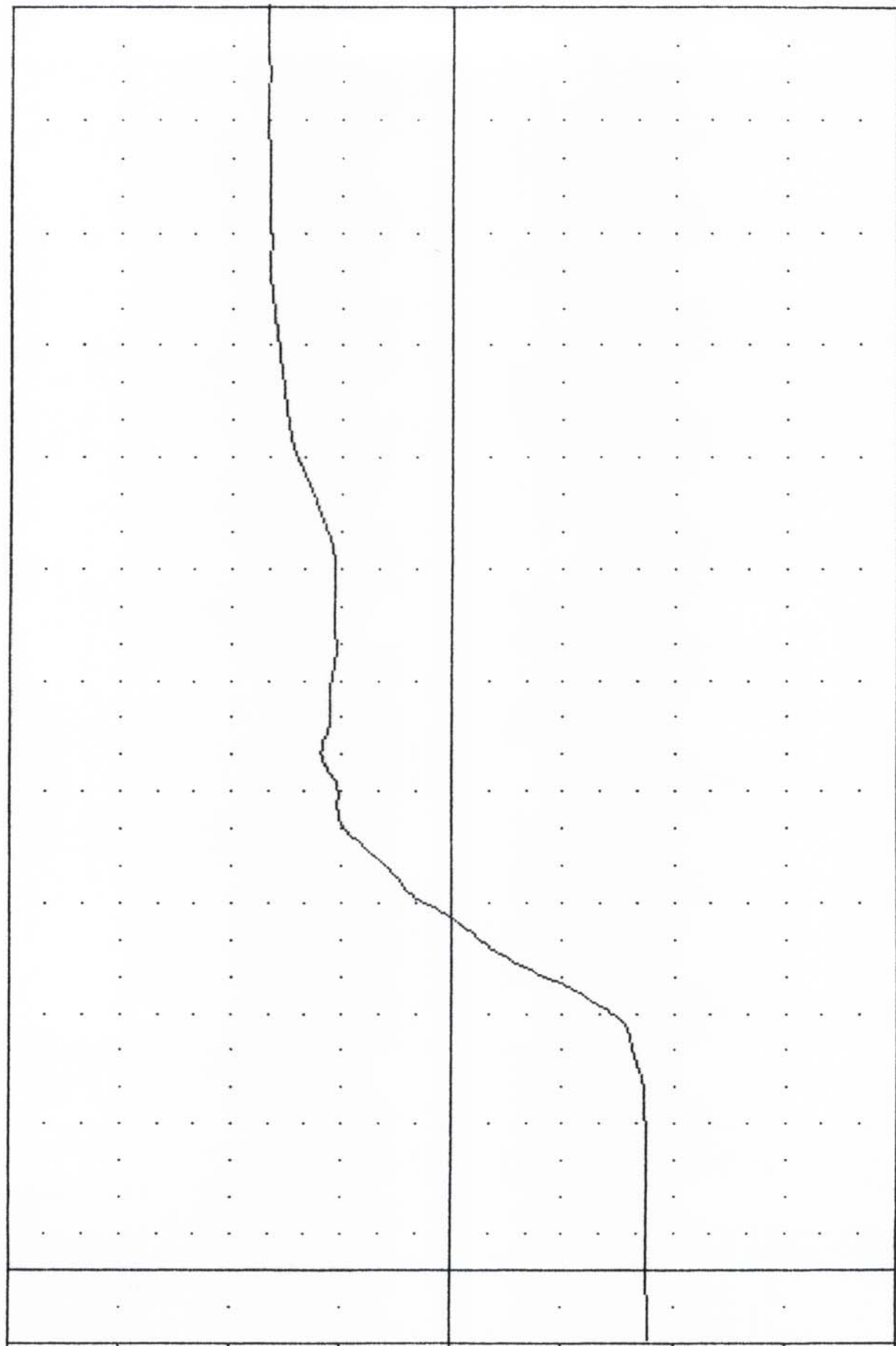
PLU, DATE 25 JUN 67 12:37:14

FILTER = HSRI 136/ 189/ -50

MIN, MAX VALUES = -17.802 -15.00, 16.90 e 313.12

40.00
30.00
20.00
10.00
0.00
-10.00
-20.00
-30.00
-40.00

VELOCITY (MPH)



-20.00 10.00 40.00 70.00 100.00 130.00 160.00 190.00 220.00 250.00 280.00 310.00 340.00

TIME (msec)

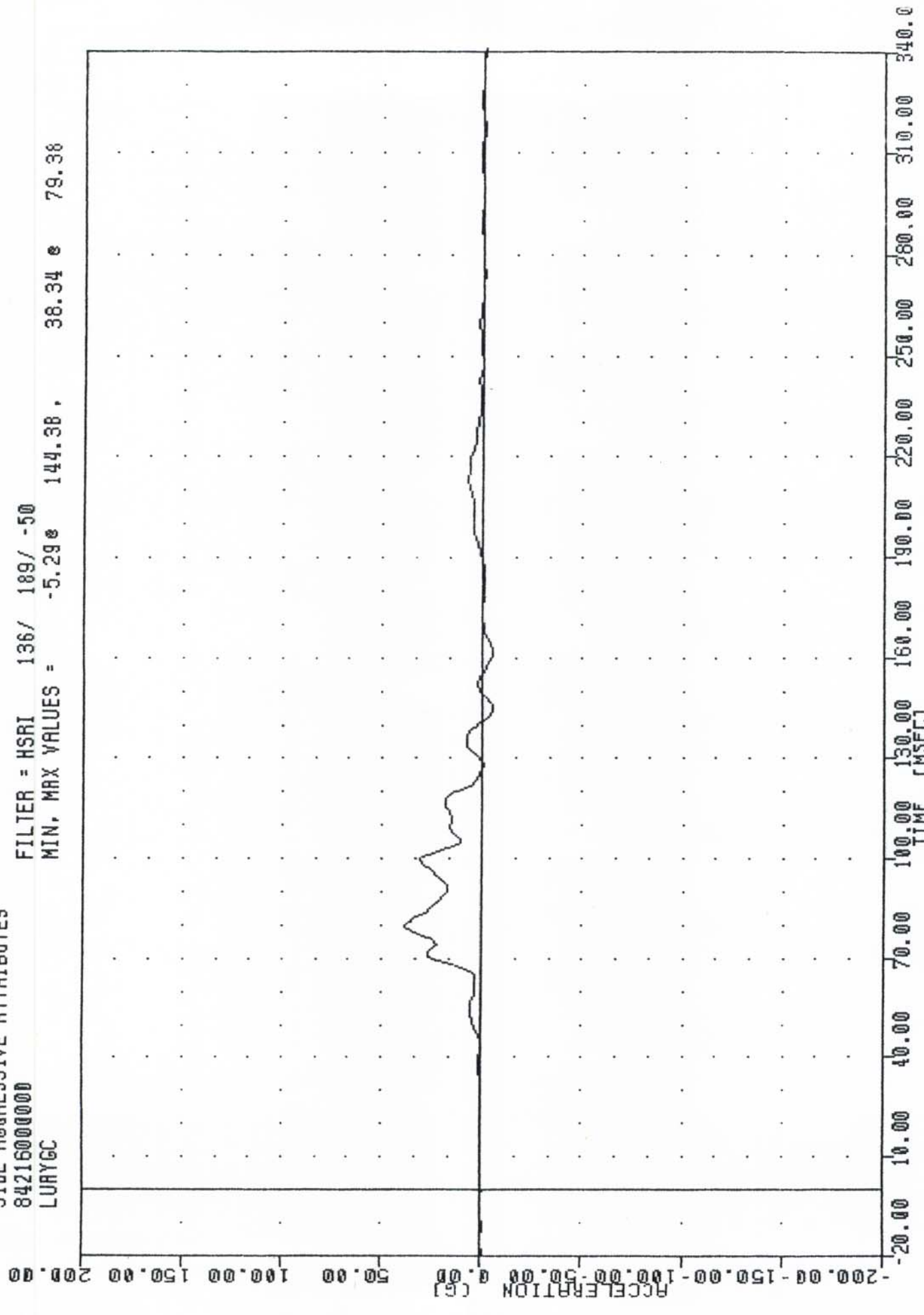
45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE

DELTA V USING LURYG3

TIME 0.0800
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LURYGC

PLC, DATA 2L JG-6, 1L-1:2,

FILTER = HSRI 136/ 189/ -50
MIN, MAX VALUES = -5.290 144.38, 38.34 79.38

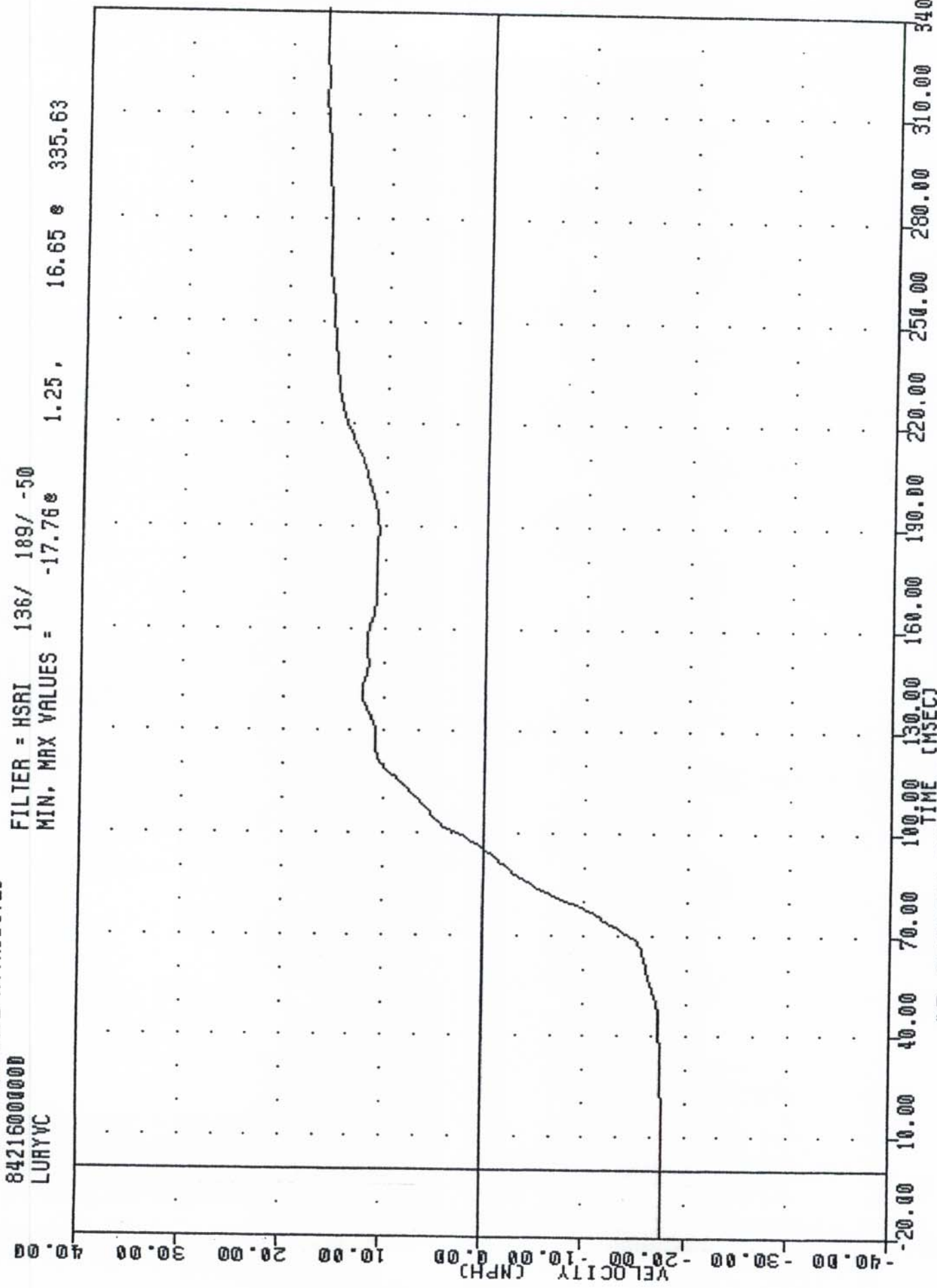


45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER LEFT UPPER RIB ACCELERATION #2 Y AXIS

Tnu , 040803
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LURYVC

PLU1 DATE 25-JUG-84 12:07:14

FILTER = HSRI 136/ 189/ -50
MIN, MAX VALUES = -17.76e 1.25, 16.65 e 335.63



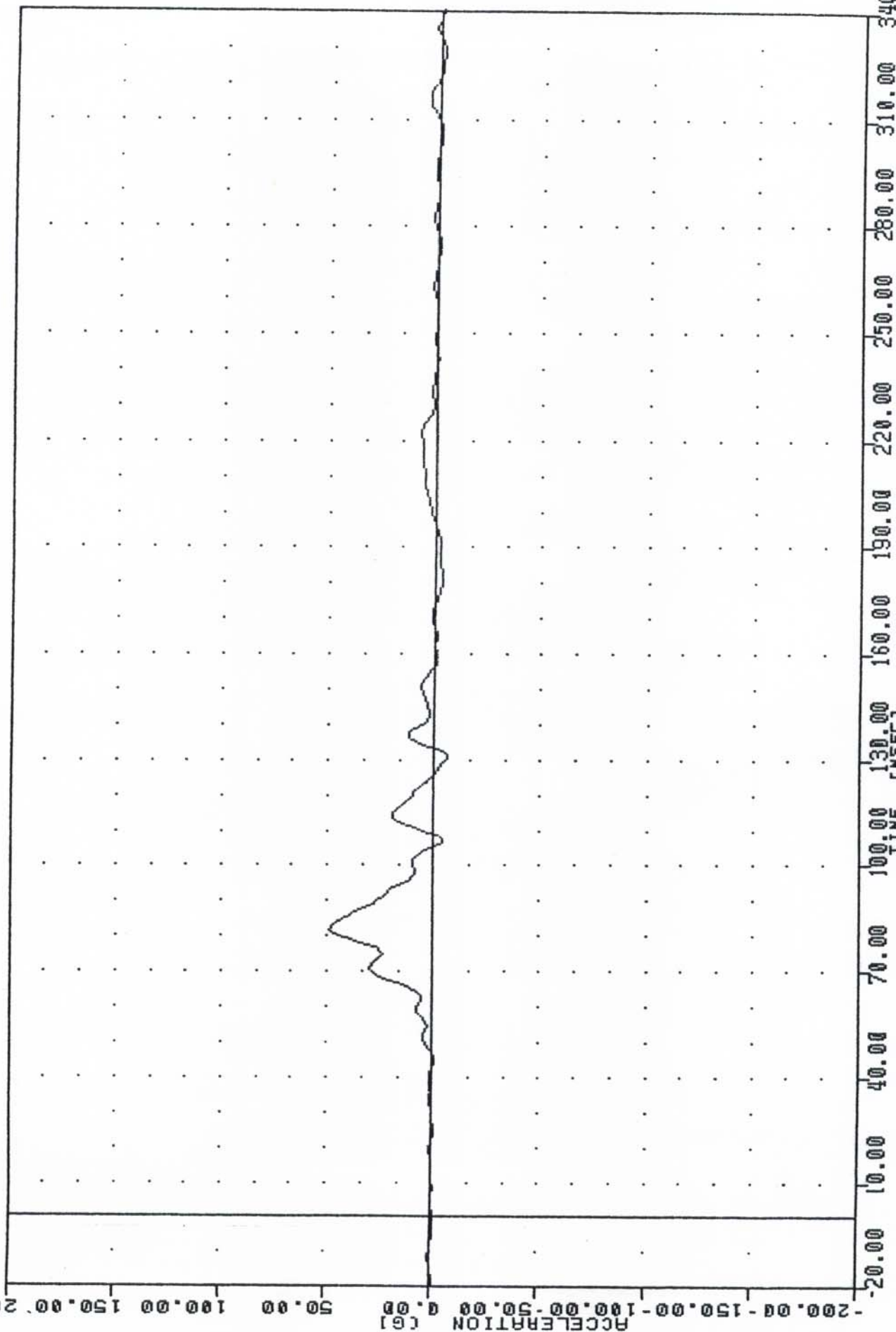
45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
DELTA V USING LURYGC

PLC, DATE 23 06-87 12:01:27
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LLRY63

FILTER = HSRI 136/ 189/ -50

MIN, MAX VALUES = -5.76 130.00, 48.52 81.25

ACCELERATION (G)



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER LEFT LOWER RIB ACCELERATION Y AXIS

PLC, JATL 23 JUN 87 12:37:14

SIDE AGGRESSIVE ATTRIBUTES

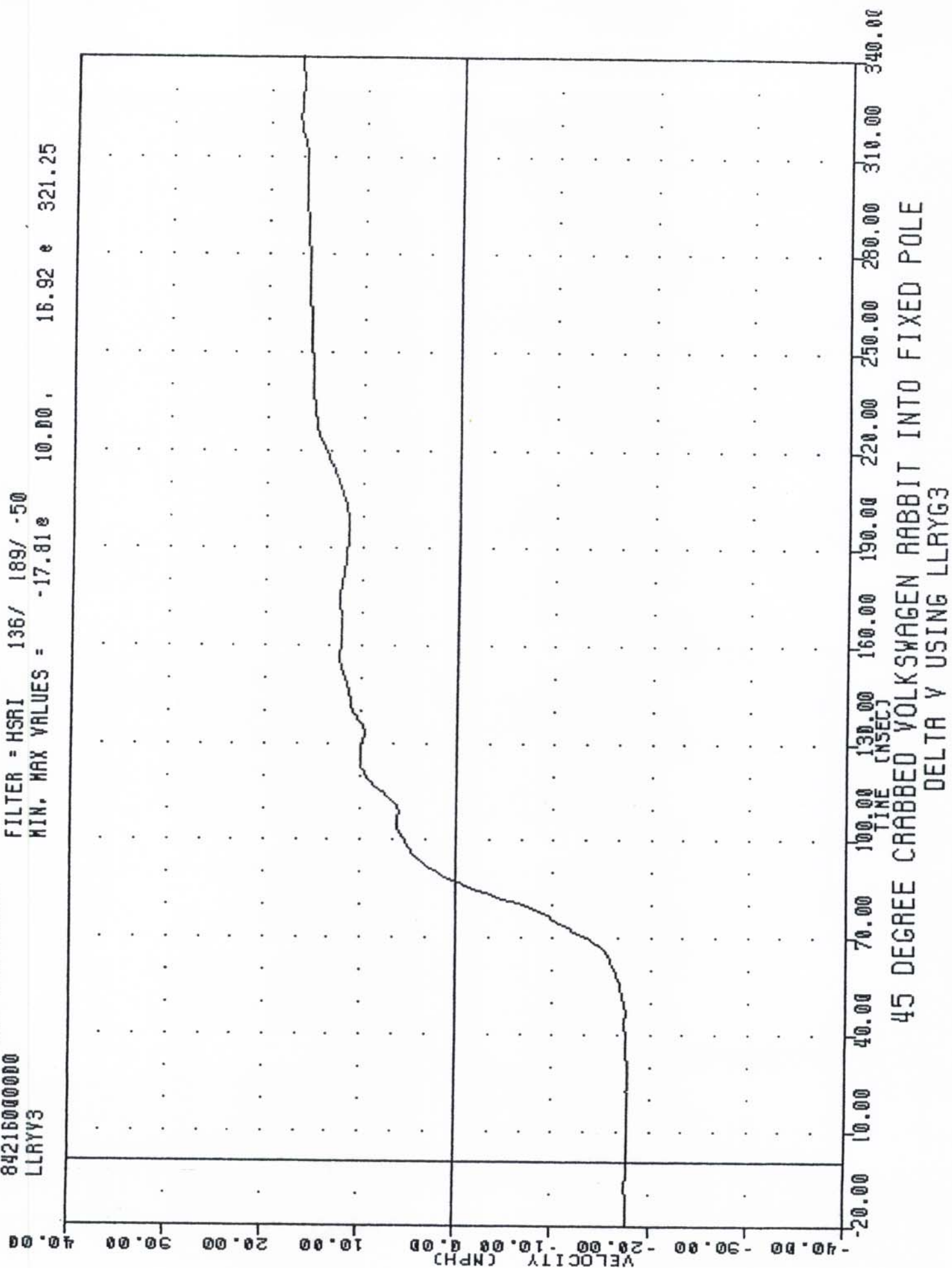
84216000000

LLRYV3

FILTER = HSRI 136/ 189/ -50

MIN. MAX VALUES = -17.81 10.00, 16.92 321.25

B-59



1.00 0.0800
SIDE AGGRESSIVE ATTRIBUTES

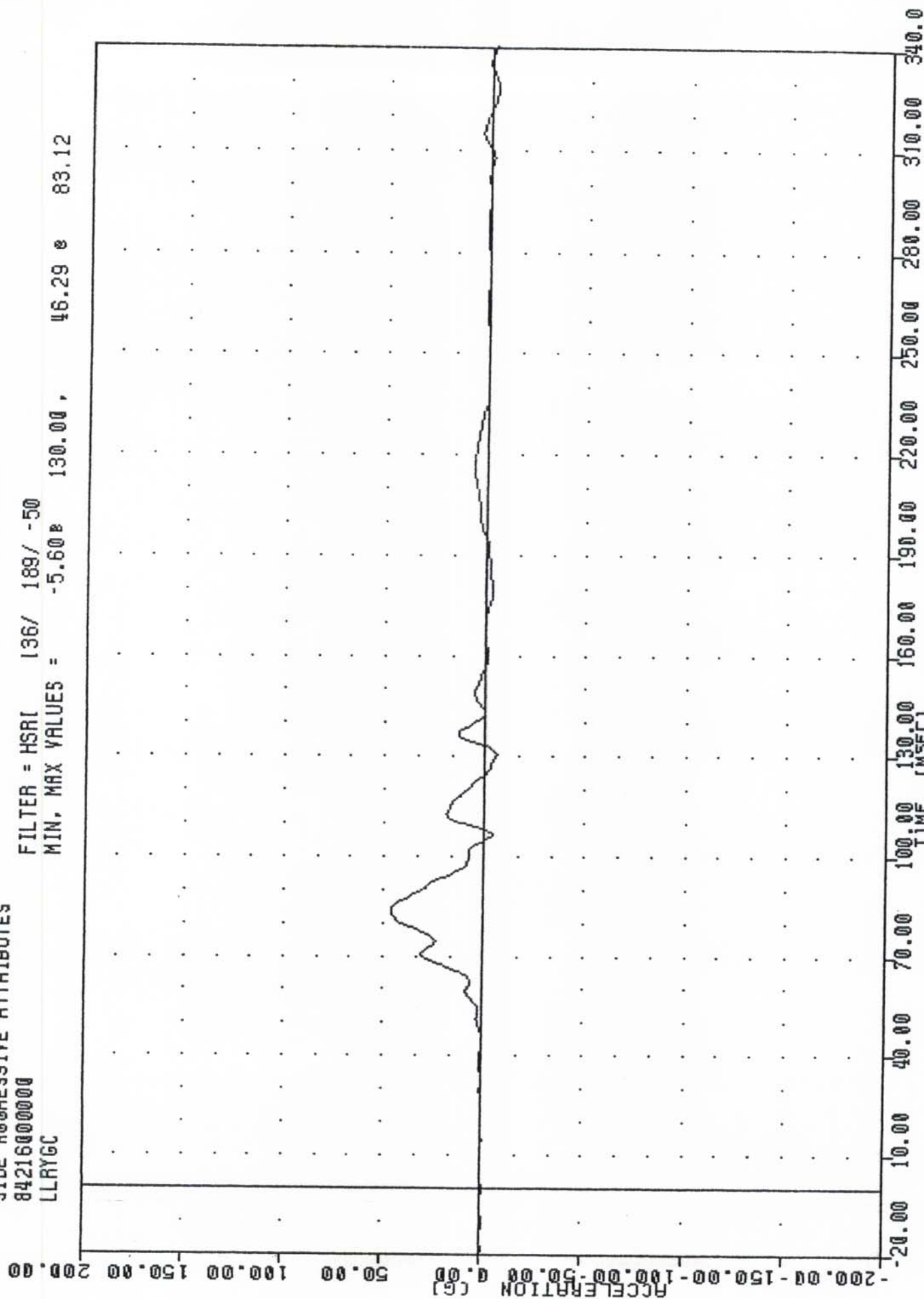
84216000000

LLRYGC

PLC, DATE 25 JUL 67 14:31:21

FILTER = HSRI 136/ 189/ -50

MIN, MAX VALUES = -5.60 130.00, 46.29 83.12



B-60

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER LEFT LOWER RIB ACCELERATION -2 Y AXIS

PLC, DATE 20 06-02 12:37:14

7.0000
SIDE AGGRESSIVE ATTRIBUTES

84216000000

LLRYVC

FILTER = HSR1 136/ 189/ -50

MIN, MAX VALUES = -17.82 2.50, 16.68 321.25

40.00
30.00
20.00
10.00
0.00
-10.00
-20.00
-30.00
-40.00

VELOCITY (MPH)



-20.00 10.00 40.00 70.00 100.00 130.00 160.00 190.00 220.00 250.00 280.00 310.00 340.00

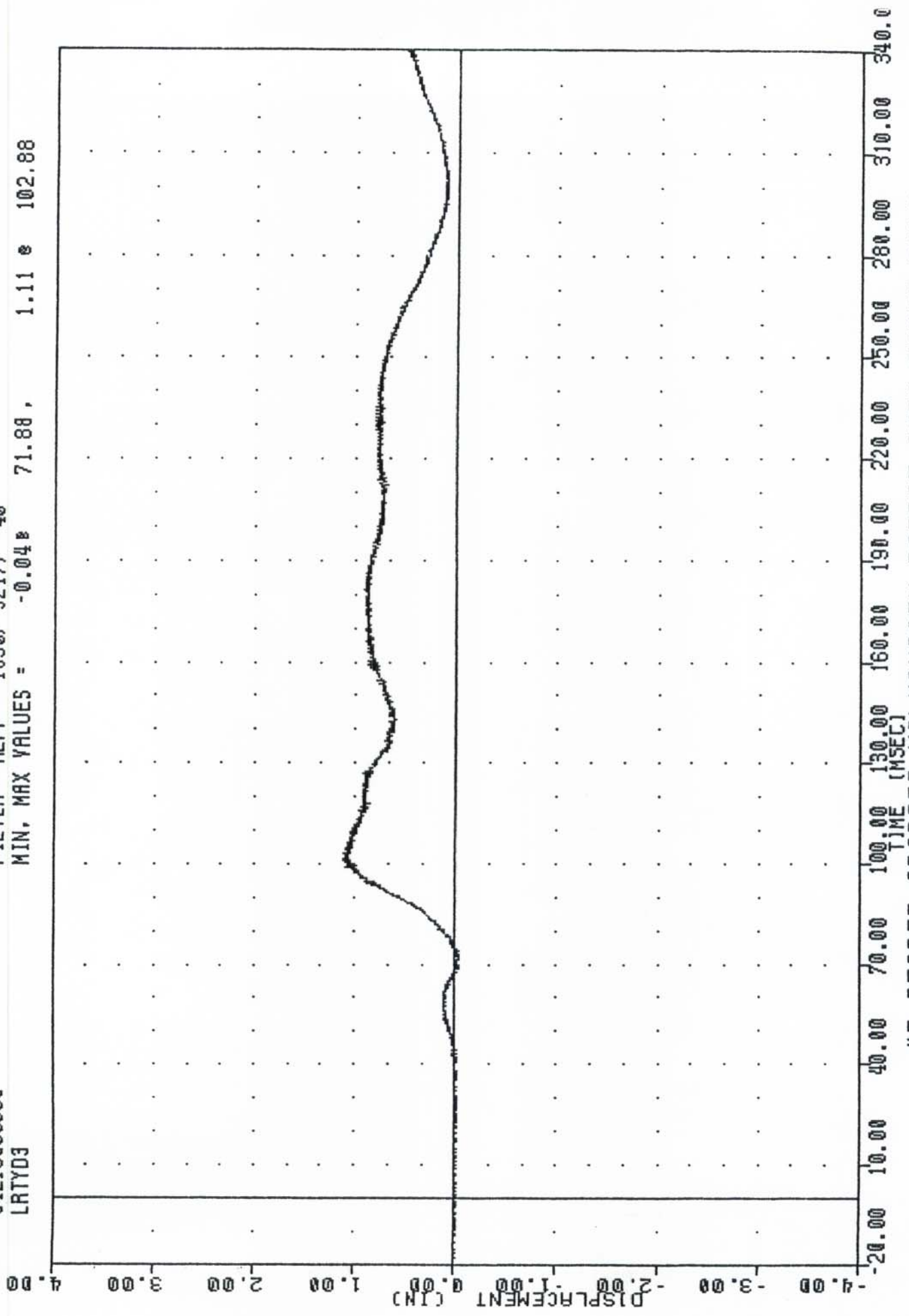
TIME (MSEC)

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
DELTA V USING LLRYVC

THL 840805
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LRTYD3

PLU1 DATE 23-MUG-64 13:08:03

FILTER = ALPF 1650/ 5217/ -40
MIN, MAX VALUES = -0.048 71.88, 1.11 @ 102.88



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER LEFT RIB TO SPINE DISPLACEMENT INCHES

TIME 0800
SIDE AGGRESSIVE ATTRIBUTES

PLU, DATE 20 JG-67 10:08:00

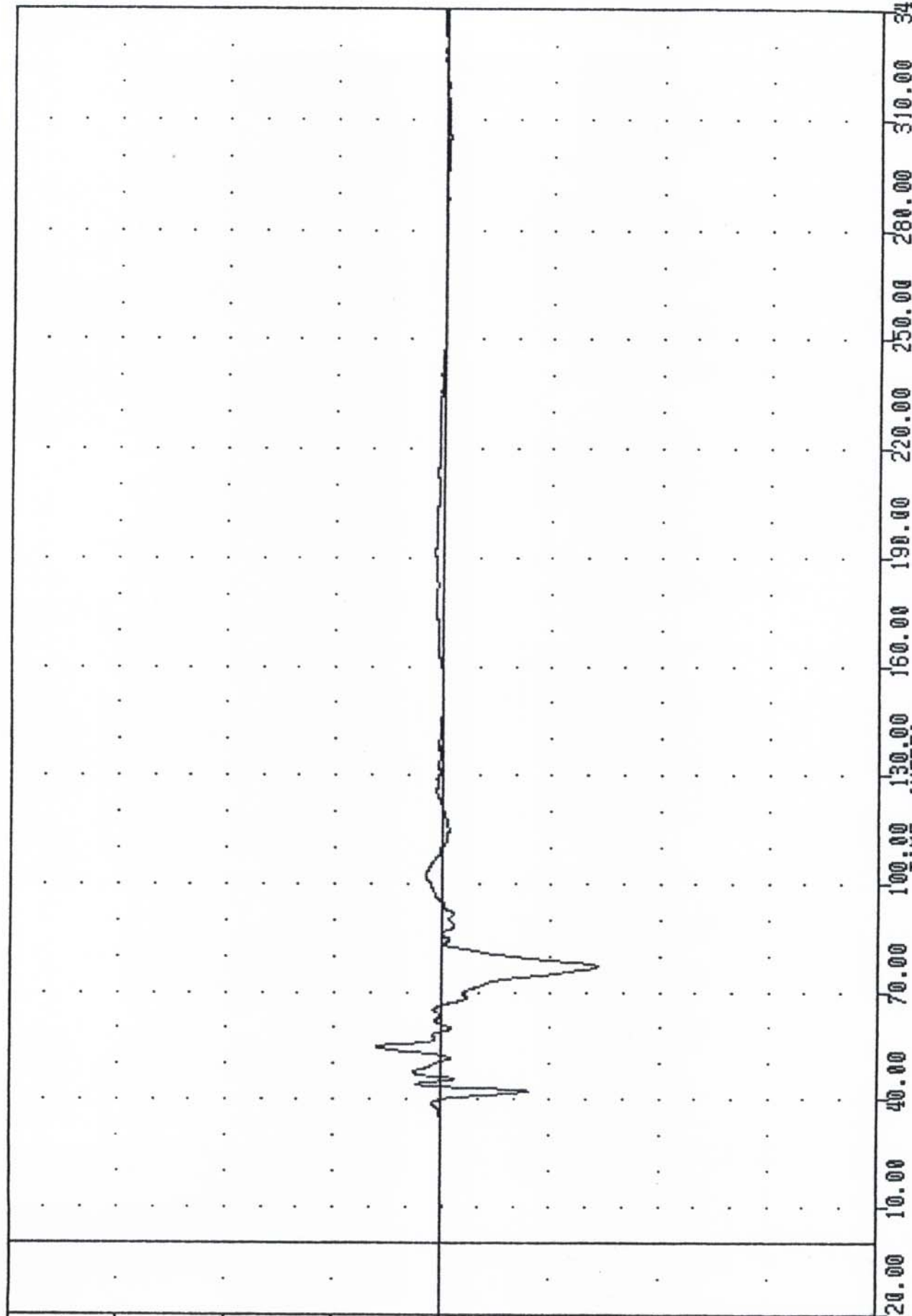
84216000000

PEVXG3

FILTER = BLPF 300/ 949/ -40

MIN, MAX VALUES = -71.62e 77.00, 30.22 e 54.50

ACCELERATION (G)



B-63

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER PELVIS ACCELERATION X AXIS

PLU. DAT 2 116-6 10:38:60

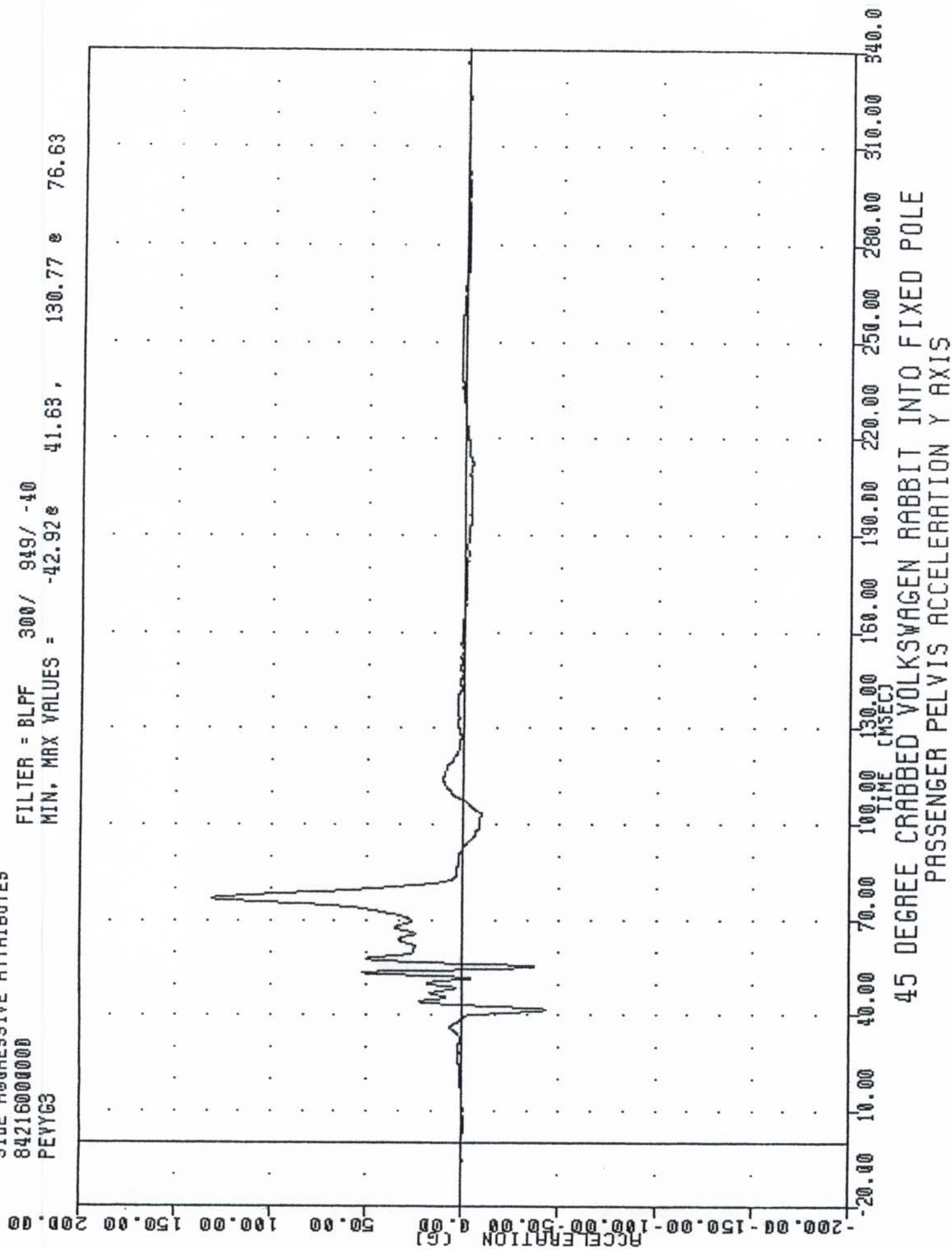
SIDE AGGRESSIVE ATTRIBUTES

84216000000

PEYVG3

FILTER = BLPF 300/ 949/ -40

MIN, MAX VALUES = -42.92 41.63, 130.77 76.63



PLC. JATL 23 JUN 84 10:3:00
SIDE AGGRESSIVE ATTRIBUTES

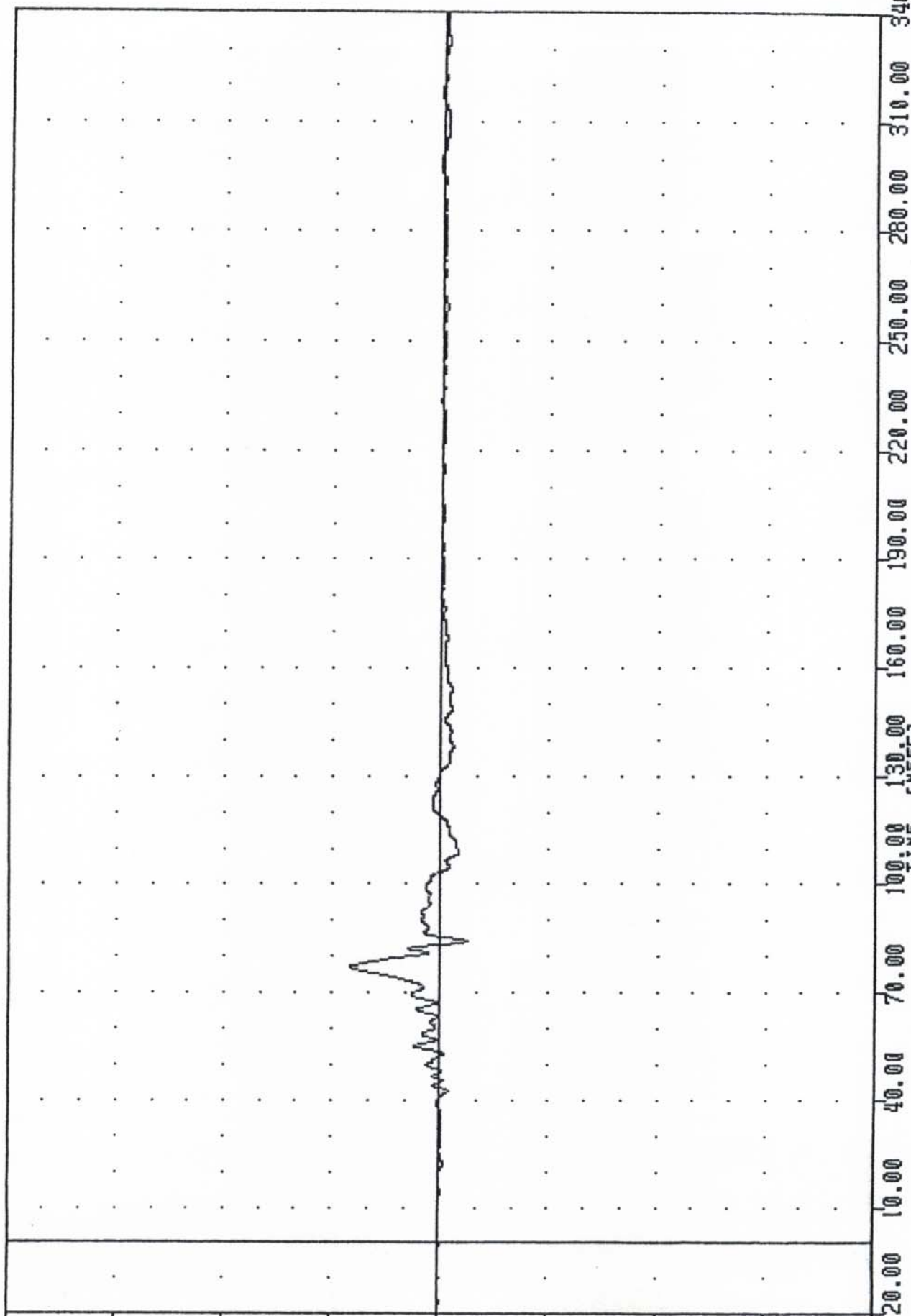
84216000000

PEVZ63

FILTER = BLPF 300/ 949/ -40

MIN, MAX VALUES = -12.27 84.25, 41.73 76.88

ACCELERATION (G)



B-65

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER PELVIS ACCELERATION Z AXIS

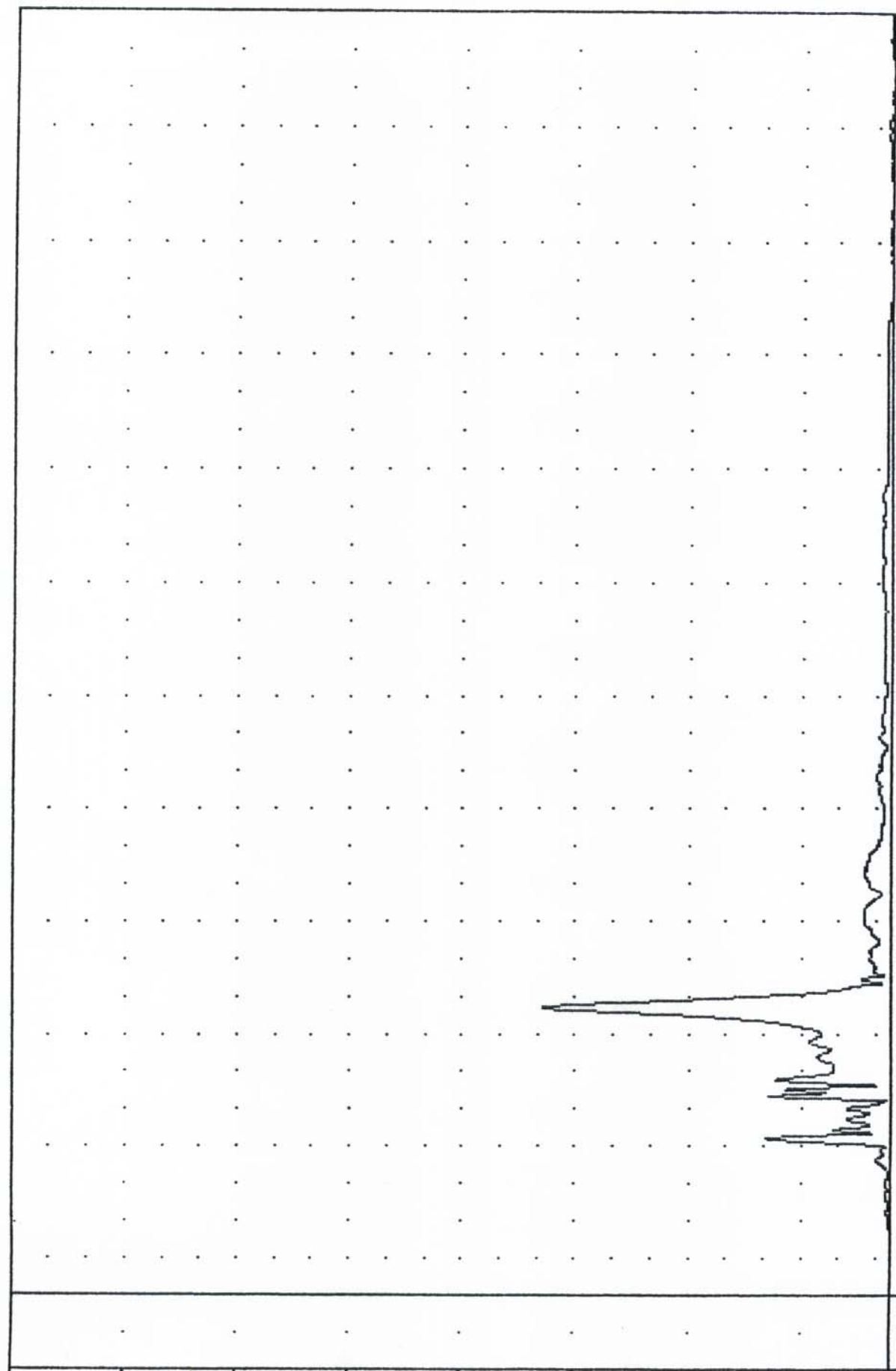
PL01 DAIL 2J NUG-04 13.11:53

1100
SIDE AGGRESSIVE ATTRIBUTES
84216000000
PEVRG3

FILTER = BLPF 300/ 949/ -40

MIN. MAX VALUES = 0.118 13.00 , 154.38 76.75

ACCELERATION (G)



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
PASSENGER PELVIS RESULTANT

1.00800
SIDE AGGRESSIVE ATTRIBUTES

PL. DATL 20 JJG-L 10.23:00

84216000000

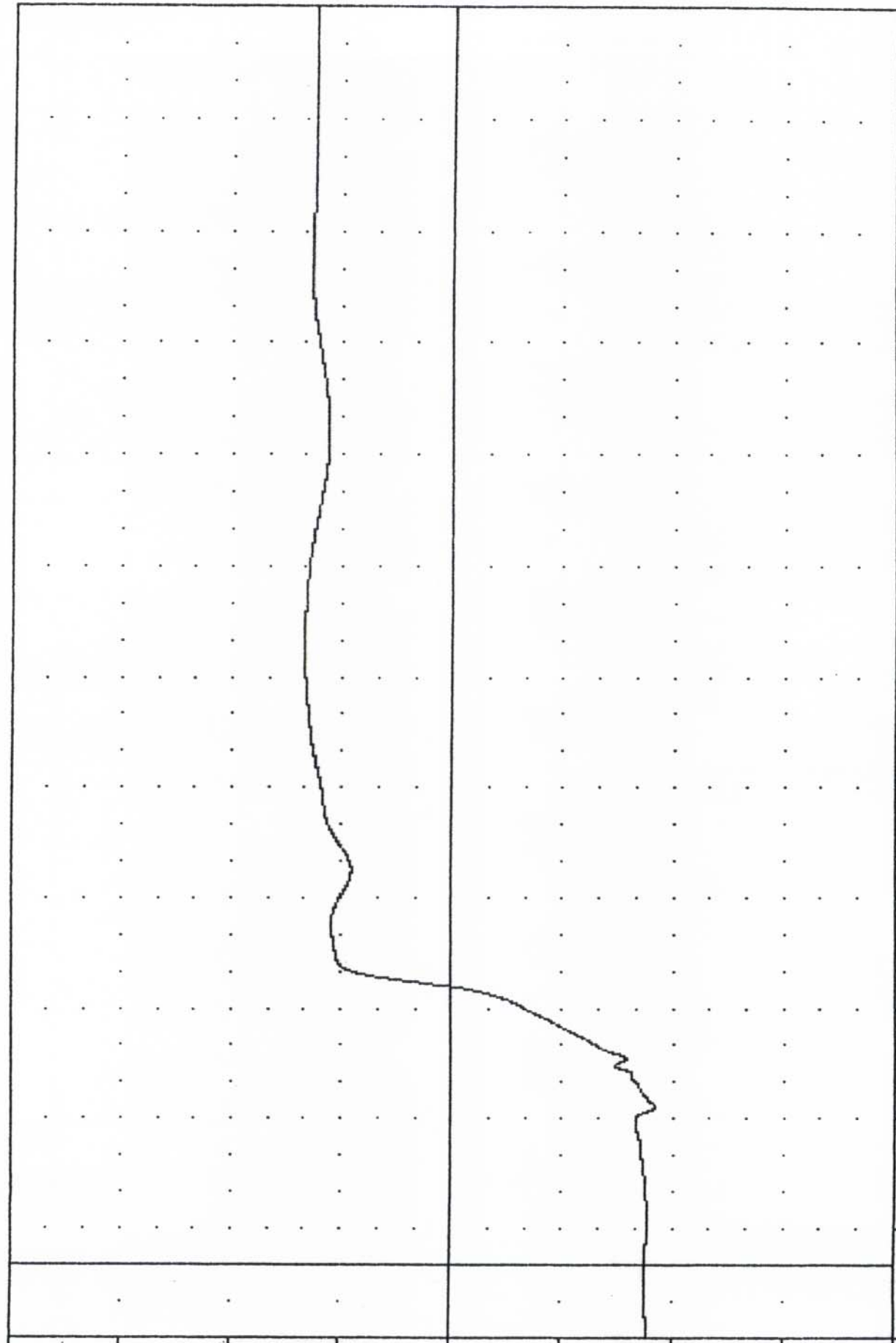
FILTER = BLPF 300/ 949/ -40

PEVYV3

MIN, MAX VALUES = -18.50 43.25, 13.43 167.75

40.00 30.00 20.00 10.00 0.00 -10.00 -20.00 -30.00 -40.00

VELOCITY (MPH)



-20.00 10.00 40.00 70.00 100.00 130.00 160.00 190.00 220.00 250.00 280.00 310.00 340.00

TIME (MSEC)

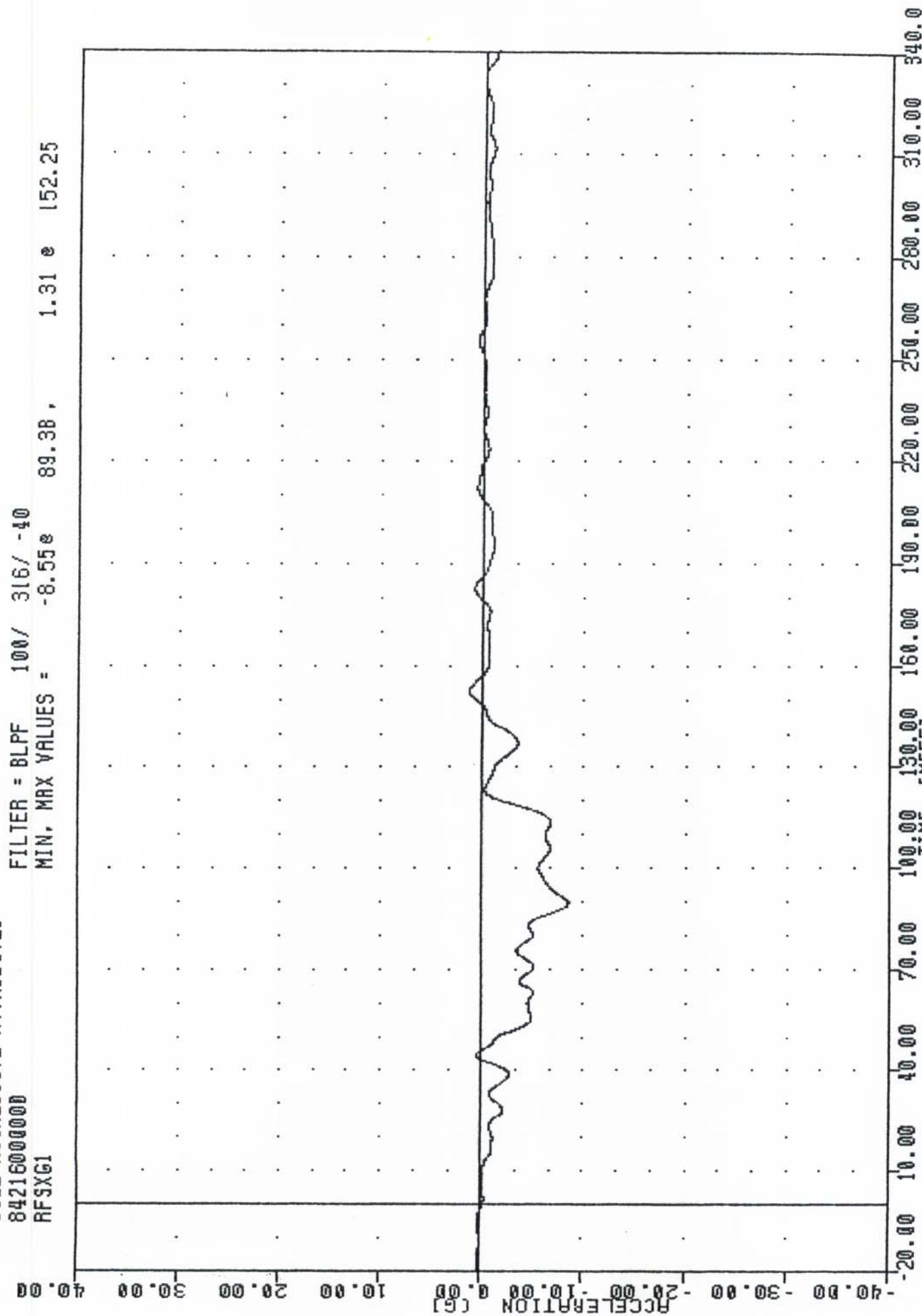
45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE

DELTA V USING PEVYV3

TIME 040800
SIDE AGGRESSIVE ATTRIBUTES
842160000000
RFSXG1

PLU1 DATE 25-JUG-64 13:08:00

FILTER = BLPF 100/ 316/ -40
MIN, MAX VALUES = -8.55e 89.38, 1.31 e 152.25

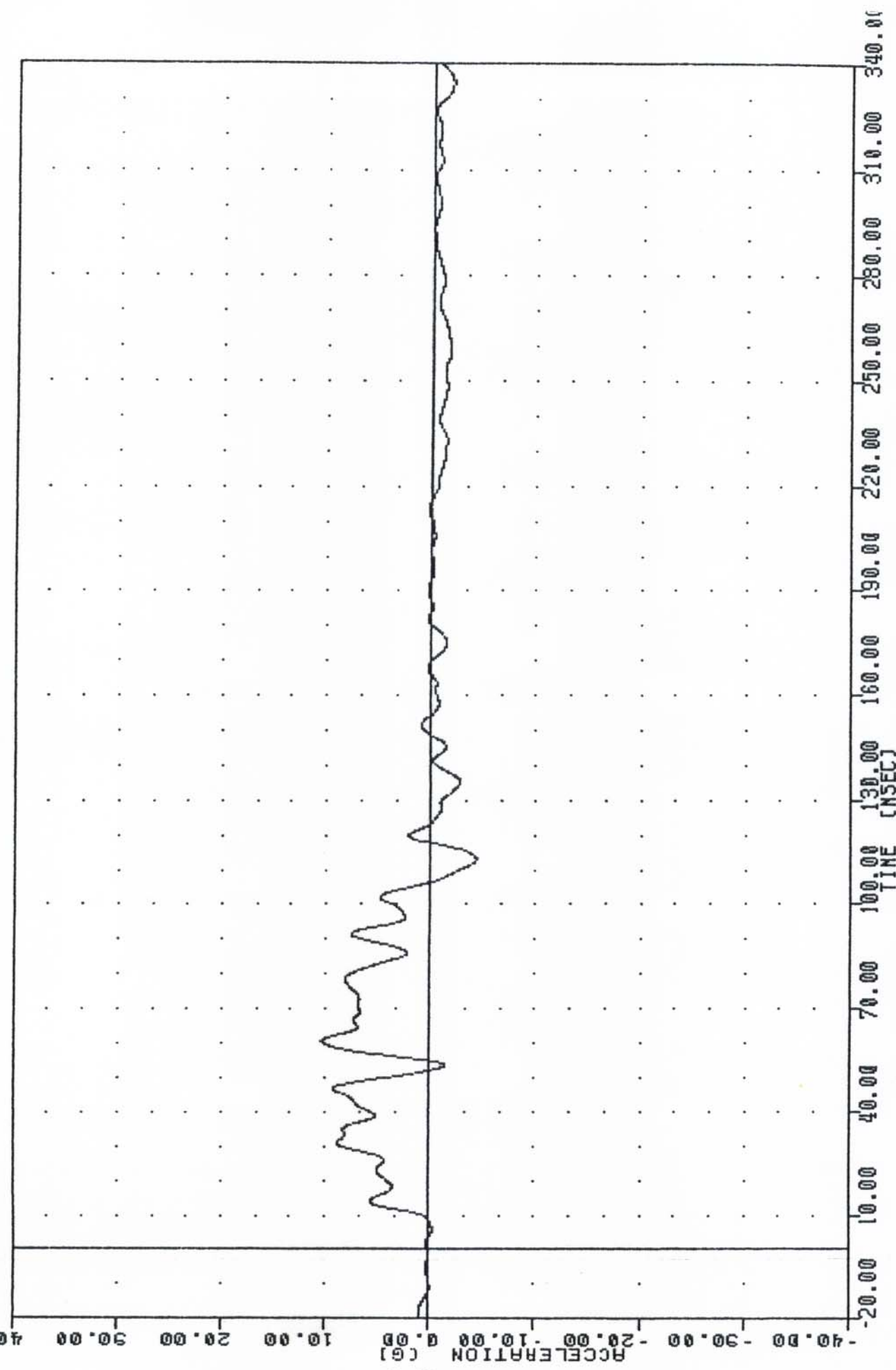


TLV J800
SIDE AGGRESSIVE ATTRIBUTES
84216000000
RFSY61

PLG, JATL 23 NOV-82 15.03:05

FILTER = BLPF 100/ 316/ -40
MIN, MAX VALUES = -4.34e 113.00, 10.36 e 60.38

B-69



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
VEHICLE RIGHT FRONT SILL ACCELERATION Y AXIS

PLU, DATL 2J 106-64 13.11:39

T... 020800
SIDE AGGRESSIVE ATTRIBUTES

84216000000

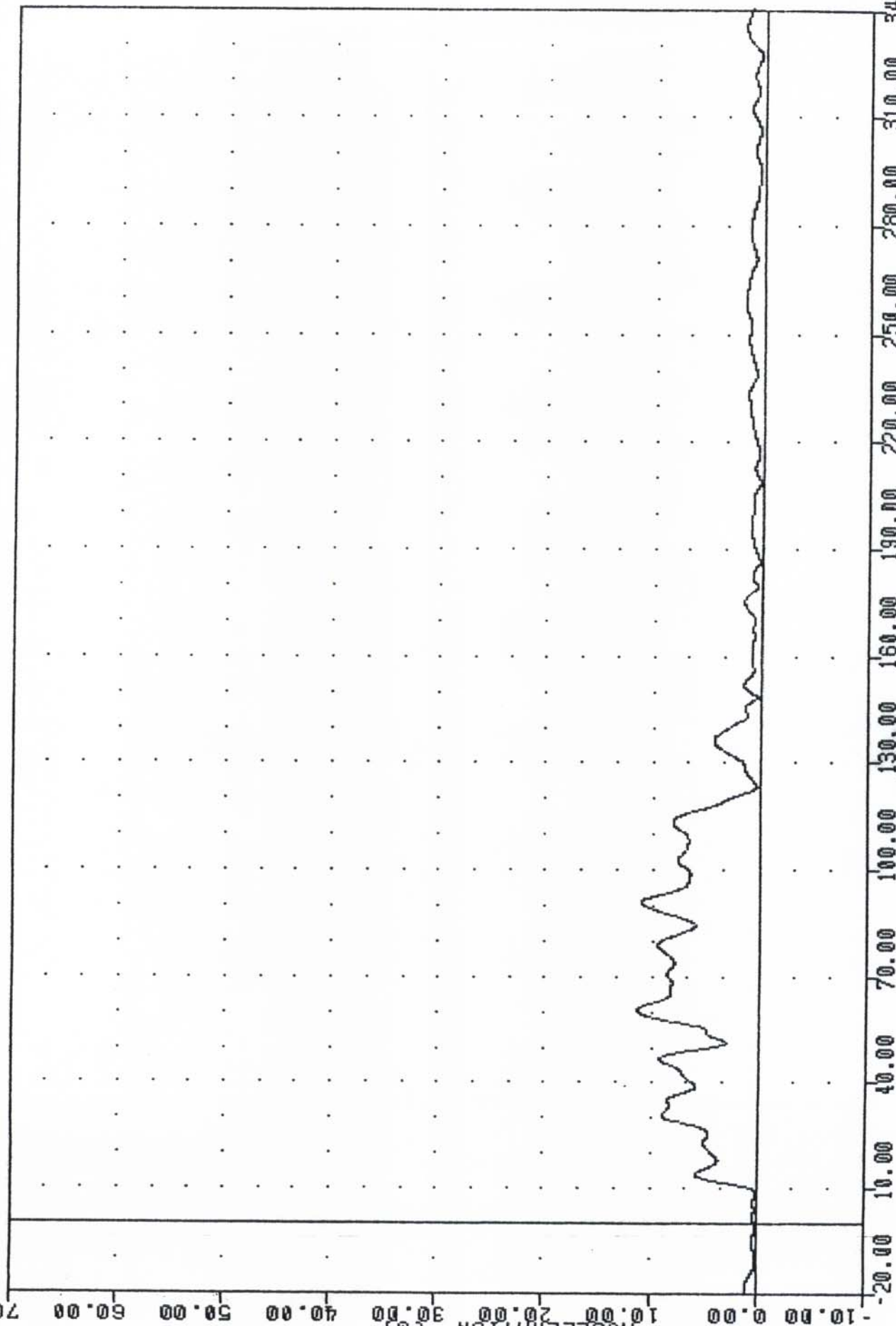
RF3RG1

FILTER = BLPF 100/ 316/ -40

MIN, MAX VALUES = 0.058 -1.50, 11.31 8 60.50

ACCELERATION (G)

B-70



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
VEHICLE RIGHT FRONT SILL RESULTANT USING ONLY X AND Y

PLU, DATA 26 11-16-62 13.23:00

SIDE AGGRESSIVE ATTRIBUTES

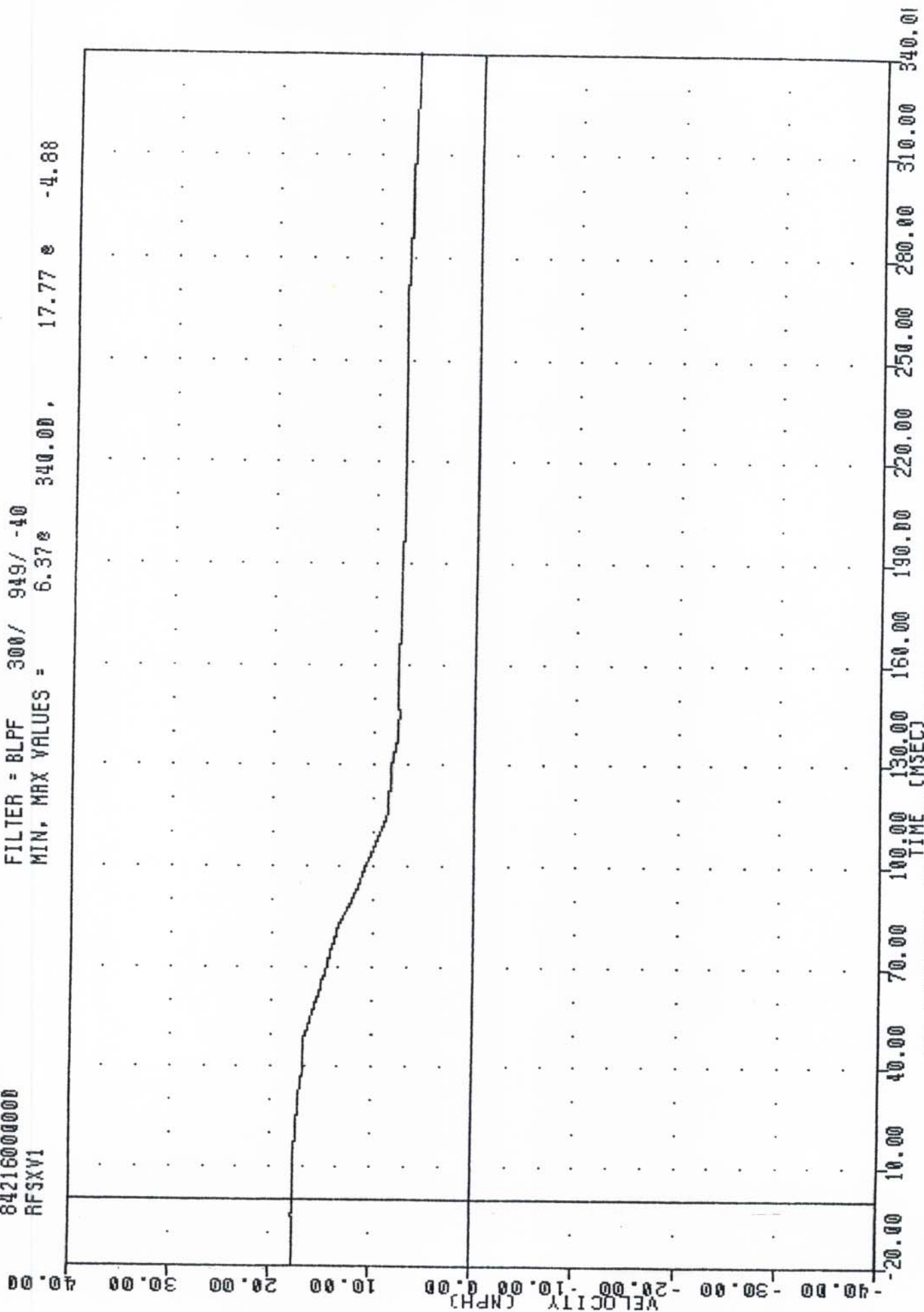
842160000000

RFSXV1

FILTER = 8LPF 300/ 949/ -40

MIN, MAX VALUES = 6.37e 340.00, 17.77 e -4.88

B-71



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
DELTA V USING RFSXG1

PLG, JATL 23 06-8 15.23:00

SIDE AGGRESSIVE ATTRIBUTES

84216000000

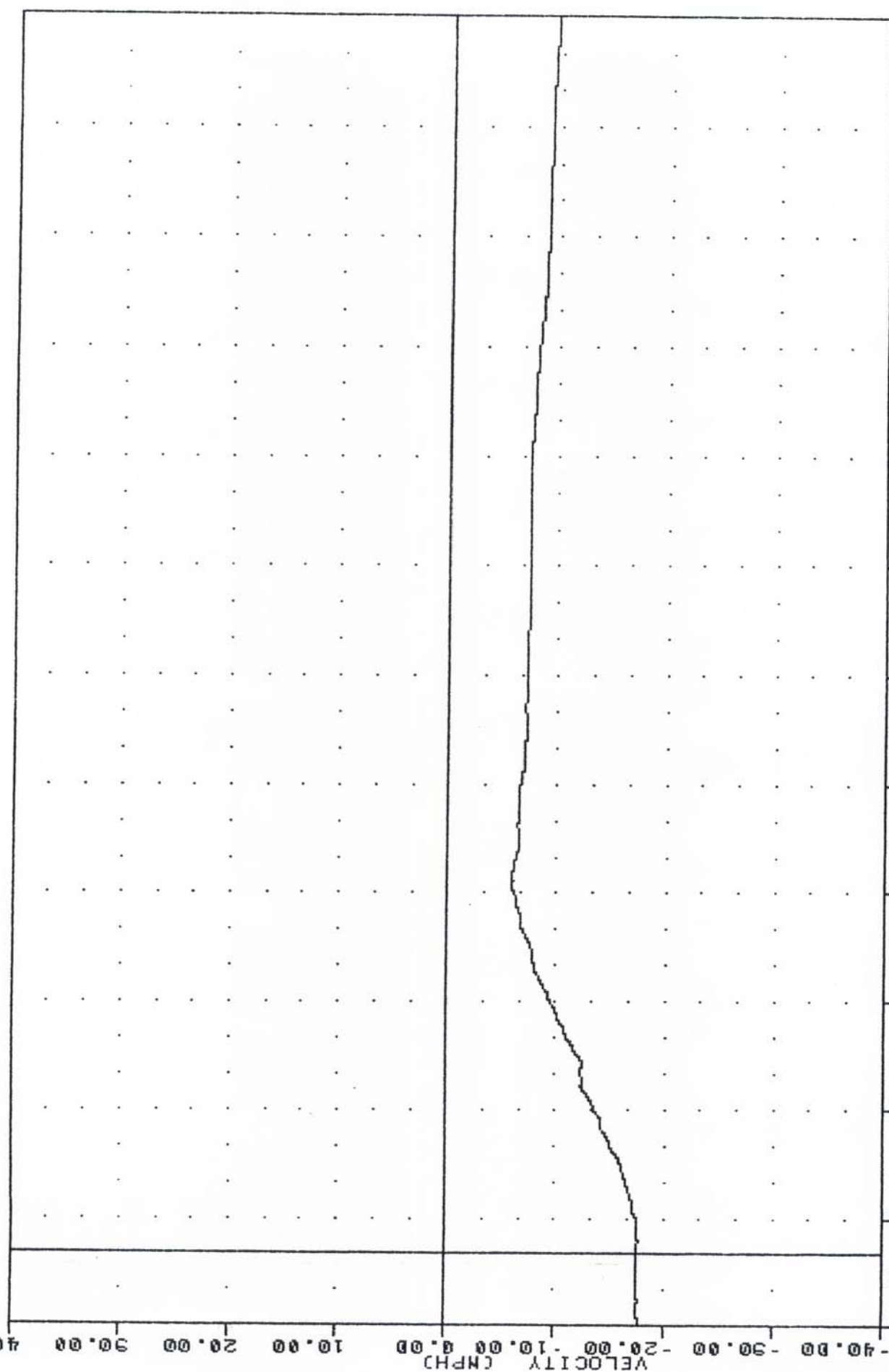
RFSYV1

FILTER = BLPF 300/ 949/ -40

MIN, MAX VALUES = -17.70e -20.00, -5.92 e 101.50

40.00 30.00 20.00 10.00 0.00 -10.00 -20.00 -30.00 -40.00

B-72



-20.00 10.00 40.00 70.00 100.00 130.00 160.00 190.00 220.00 250.00 280.00 310.00 340.00

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
DELTA V USING RFSYG1

PLU, DATE 20 JLG-67 13.48:00

1.0080
SIDE AGGRESSIVE ATTRIBUTES

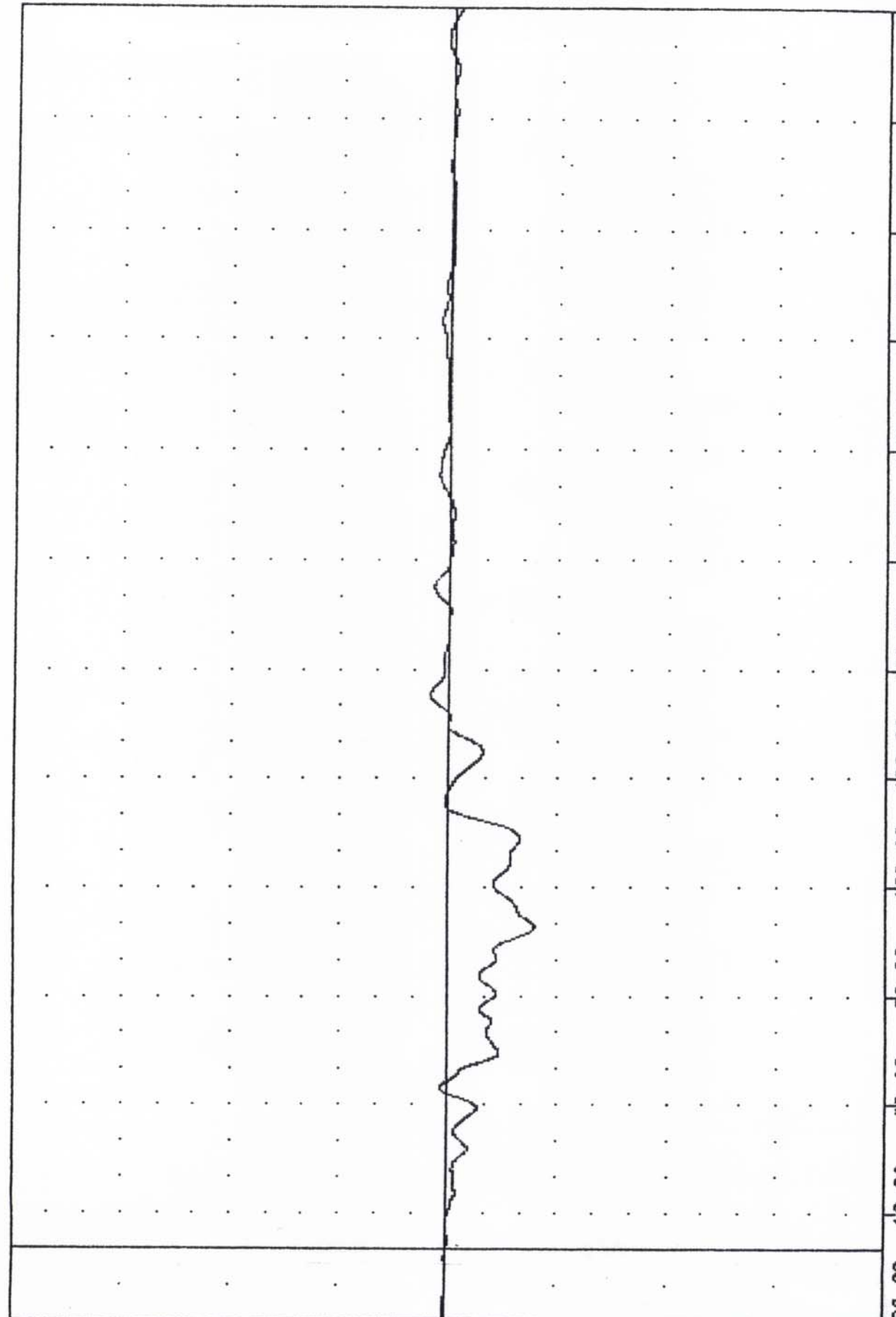
84216000000

ARSXG2

FILTER = BLPF 100/ 316/ -40

MIN, MAX VALUES = -7.92e 89.00, 1.79 e 152.75

ACCELERATION (G)



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
VEHICLE RIGHT REAR SILL ACCELERATION X AXIS

PLC, DATE 25 JUN 84 13:08:00

TIME 0200
SIDE AGGRESSIVE ATTRIBUTES

84216000000

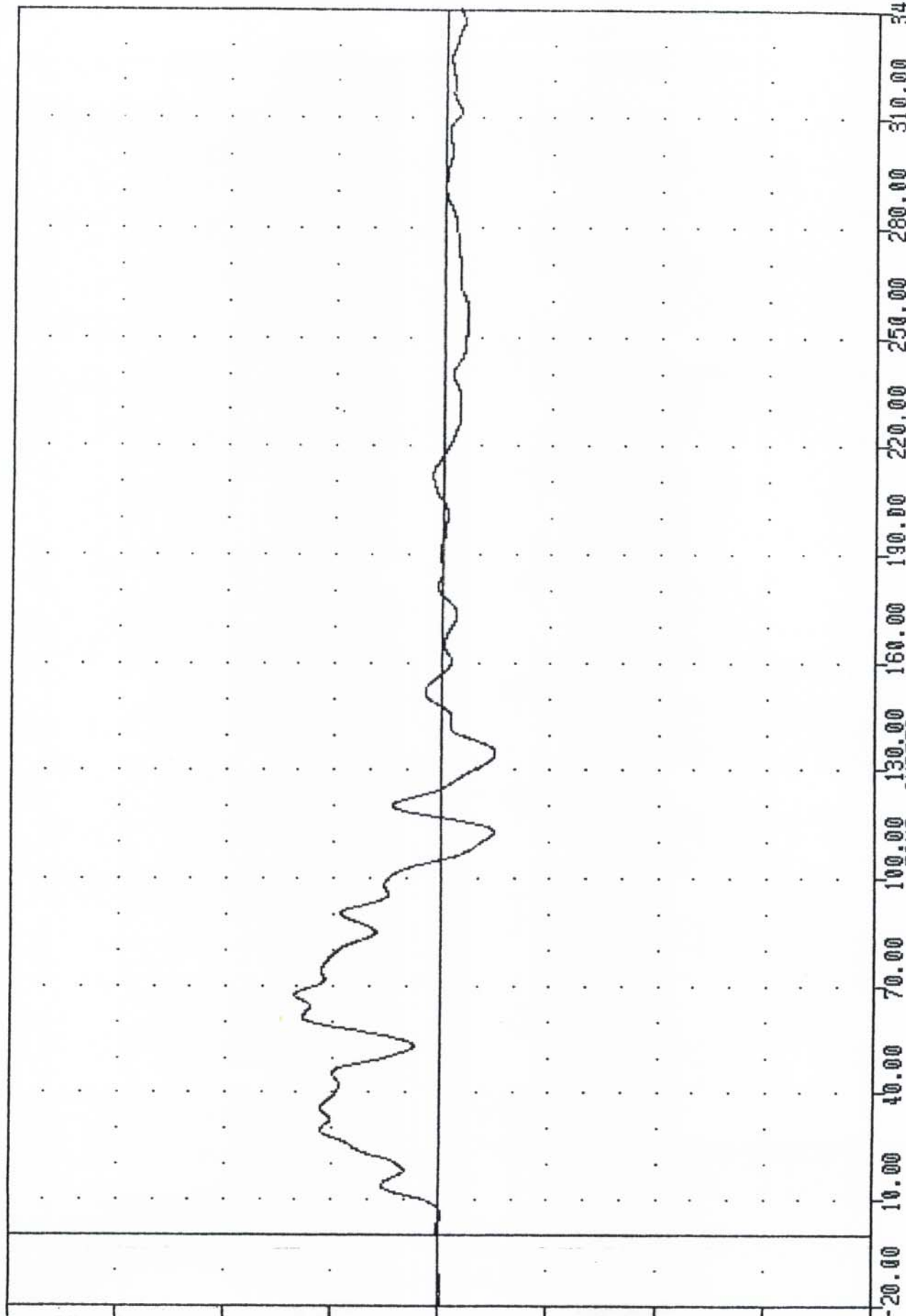
RRSYG2

FILTER = BLPF 100/ 316/ -40

MIN. MAX VALUES = -4.87e 134.75, 13.62 e 67.38

ACCELERATION (G)

B-74



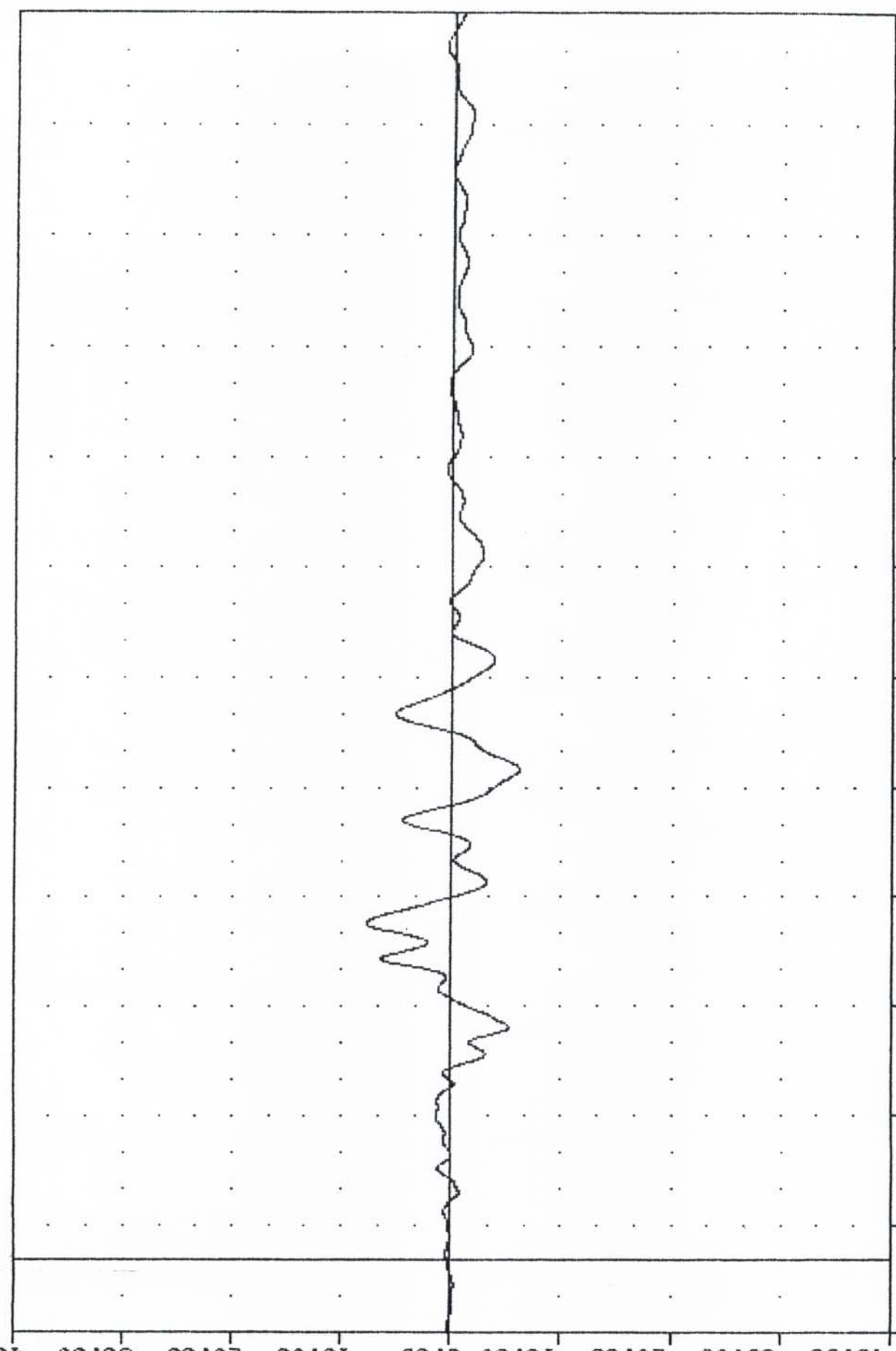
45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
VEHICLE RIGHT REAR SILL ACCELERATION Y AXIS

PLC, DATE 25 JUN 84 13:08:00
SIDE AGGRESSIVE ATTRIBUTES
84216000000
RASZ62

FILTER = BLPF 100/ 316/ -40
MIN, MAX VALUES = -6.07e 134.75, 7.79 e 92.63

B-75

ACCELERATION [G]



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
VEHICLE RIGHT REAR SILL ACCELERATION Z AXIS

TLC 040805

PLU1 DATE 23-nov-84 15:11:39

SIDE AGGRESSIVE ATTRIBUTES

84216000000

FILTER = BLPF 100/ 316/ -40

RRSR62

MIN. MAX VALUES = 0.08e -10.38 , 14.40 e 67.25

70.00

60.00

50.00

40.00

30.00

20.00

10.00

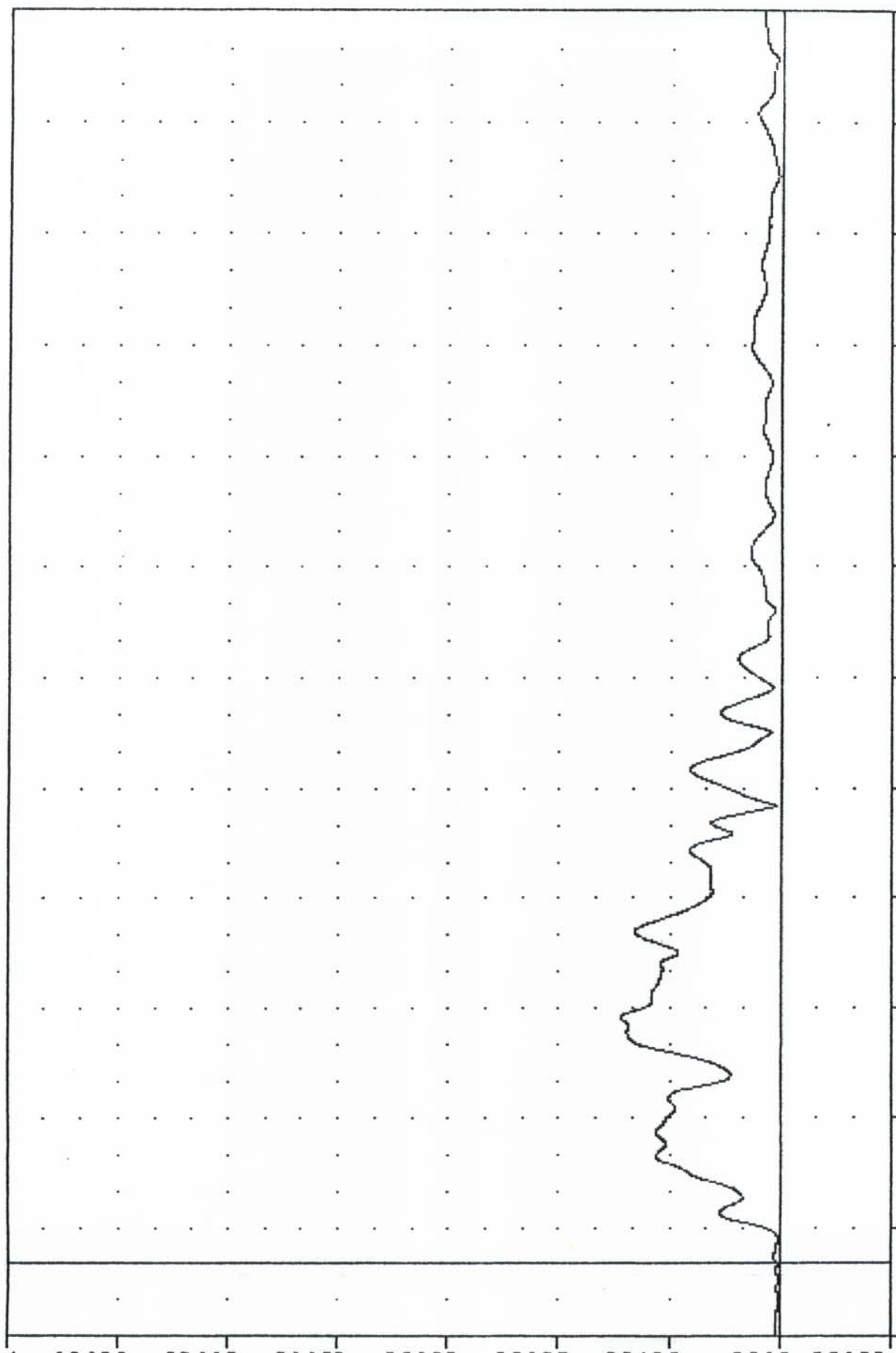
0.00

-10.00

-20.00

B-76

ACCELERATION (G)



-20.00 10.00 40.00 70.00 100.00 130.00 160.00 190.00 220.00 250.00 280.00 310.00 340.00

TIME (msec)

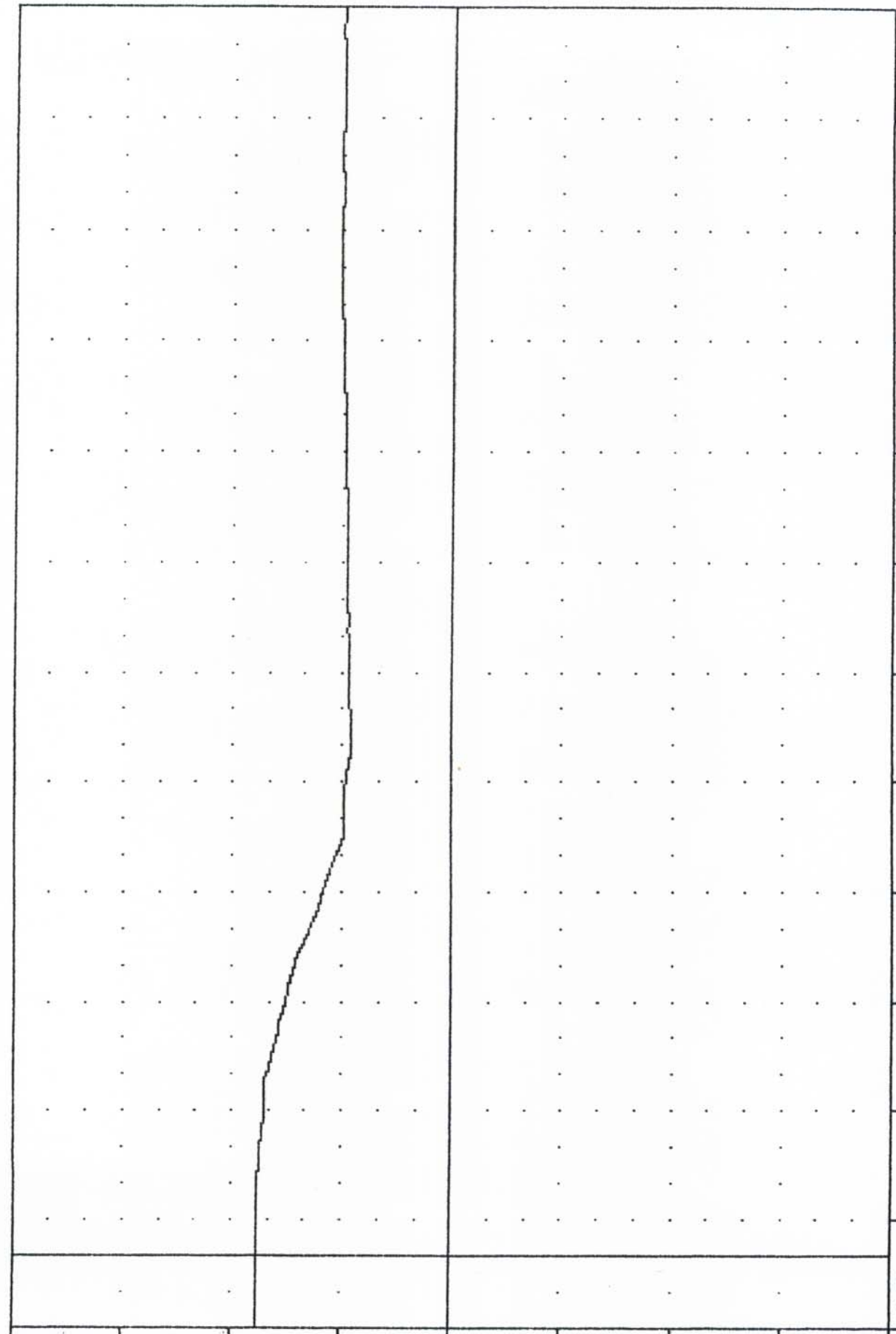
45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
VEHICLE RIGHT REAR SILL RESULTANT

1000800
SIDE AGGRESSIVE ATTRIBUTES
84216000000
RRSXV2

PLU, DATL 20 JUG-63 13.23:00

FILTER = BLPF 300/ 949/ -40
MIN, MAX VALUES = 9.13 145.13, 17.74 5.25

40.00
30.00
20.00
10.00
0.00
-10.00
-20.00
-30.00
-40.00
VELOCITY (MPH)



-20.00 10.00 40.00 70.00 100.00 130.00 160.00 190.00 220.00 250.00 280.00 310.00 340.00
TIME (MSEC)

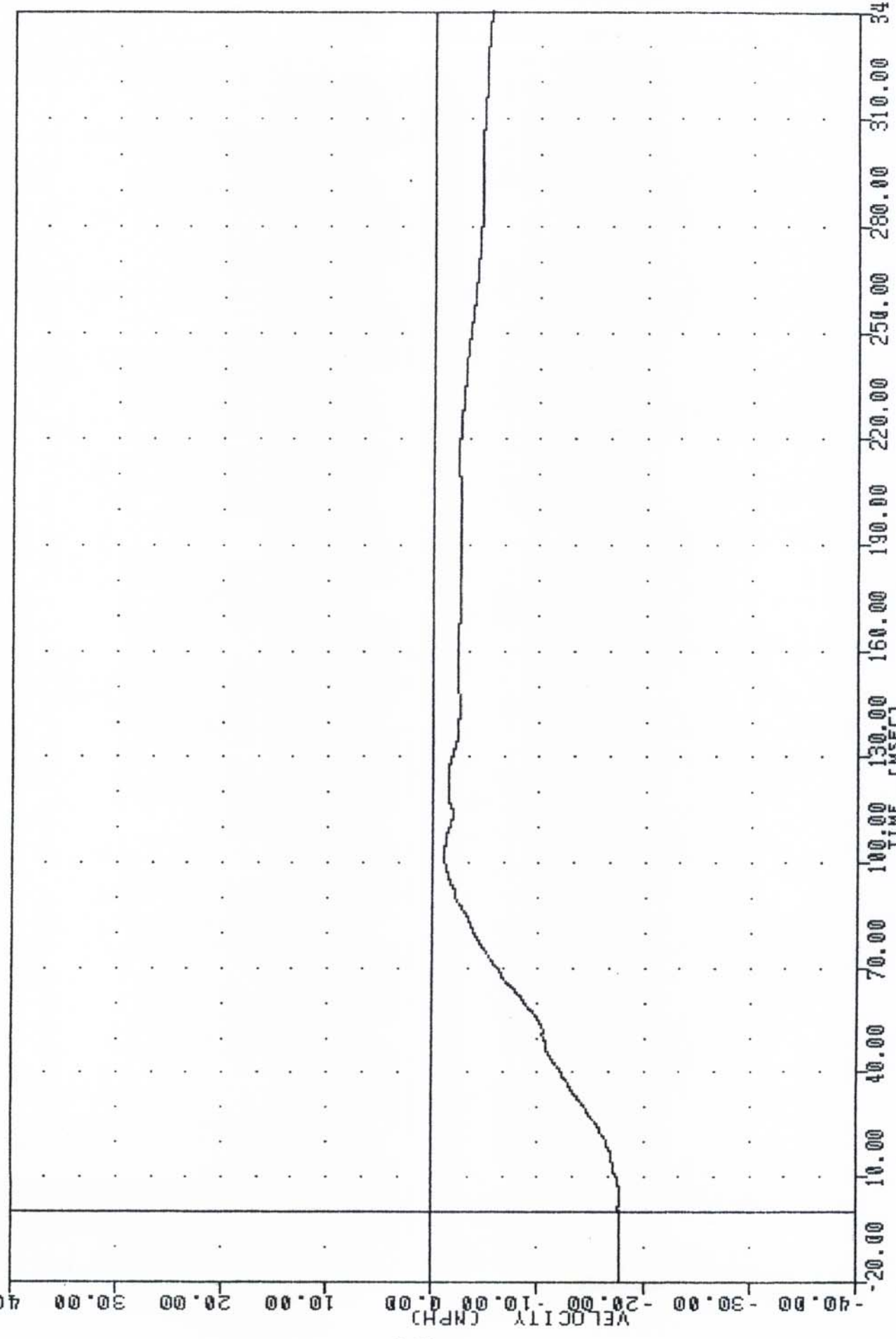
45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
DELTA V USING RRSXG2

PLC, DATE 23 06-82 10:23:00
SIDE AGGRESSIVE ATTRIBUTES

84216000000
RRSYV2

FILTER = BLPF 300/ 949/ -40
MIN, MAX VALUES = -17.74e 3.00, -1.00 e 102.13

B-78



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
DELTA V USING RRSYG2

2

SIDE AGGRESSIVE ATTRIBUTES

000009127B

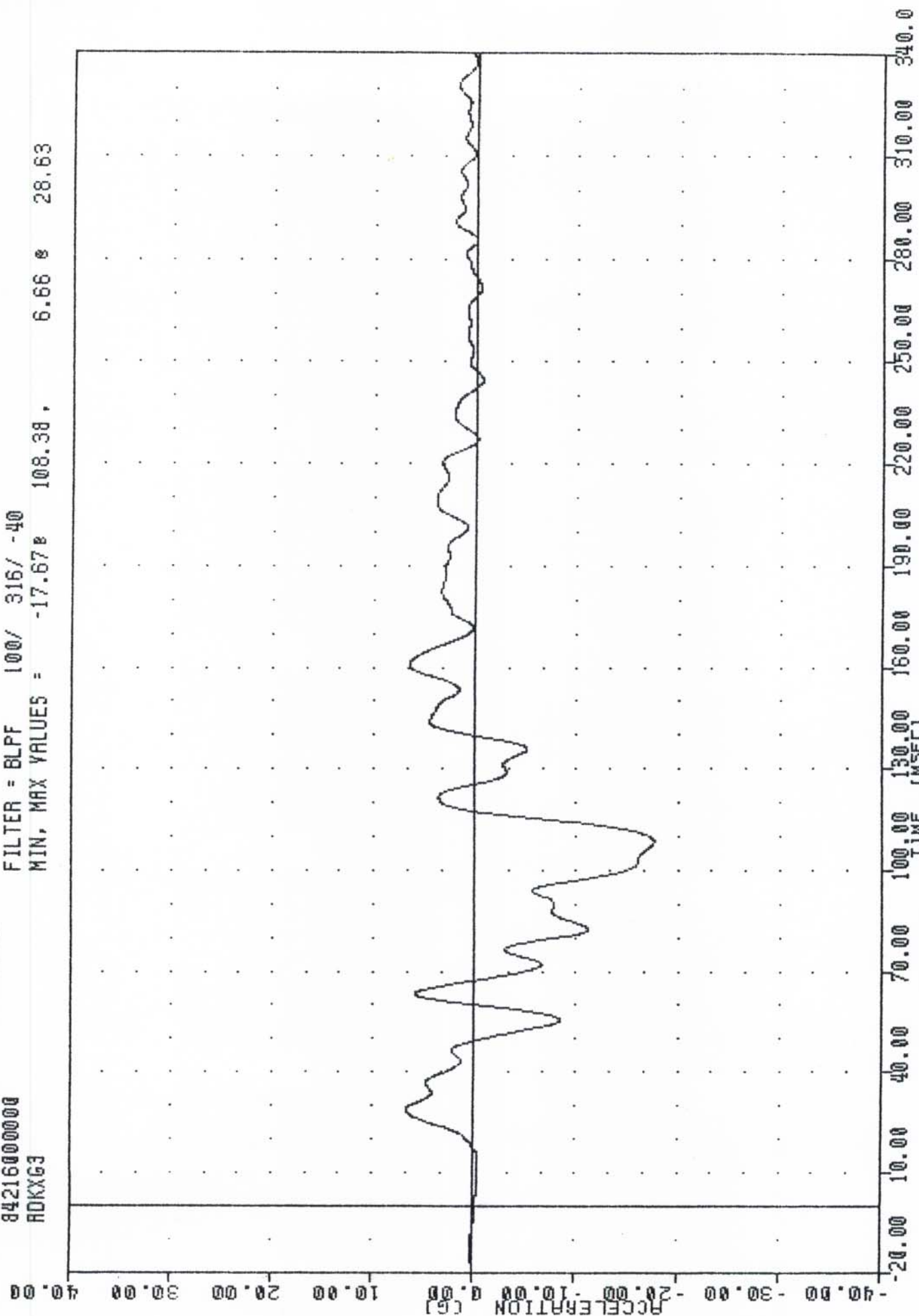
ADKXGE

FILTER = BLPF

FILTER = BLPF 100/ 316/ -40

MIN.	MAX	VALUES	=	-17.678	108.38
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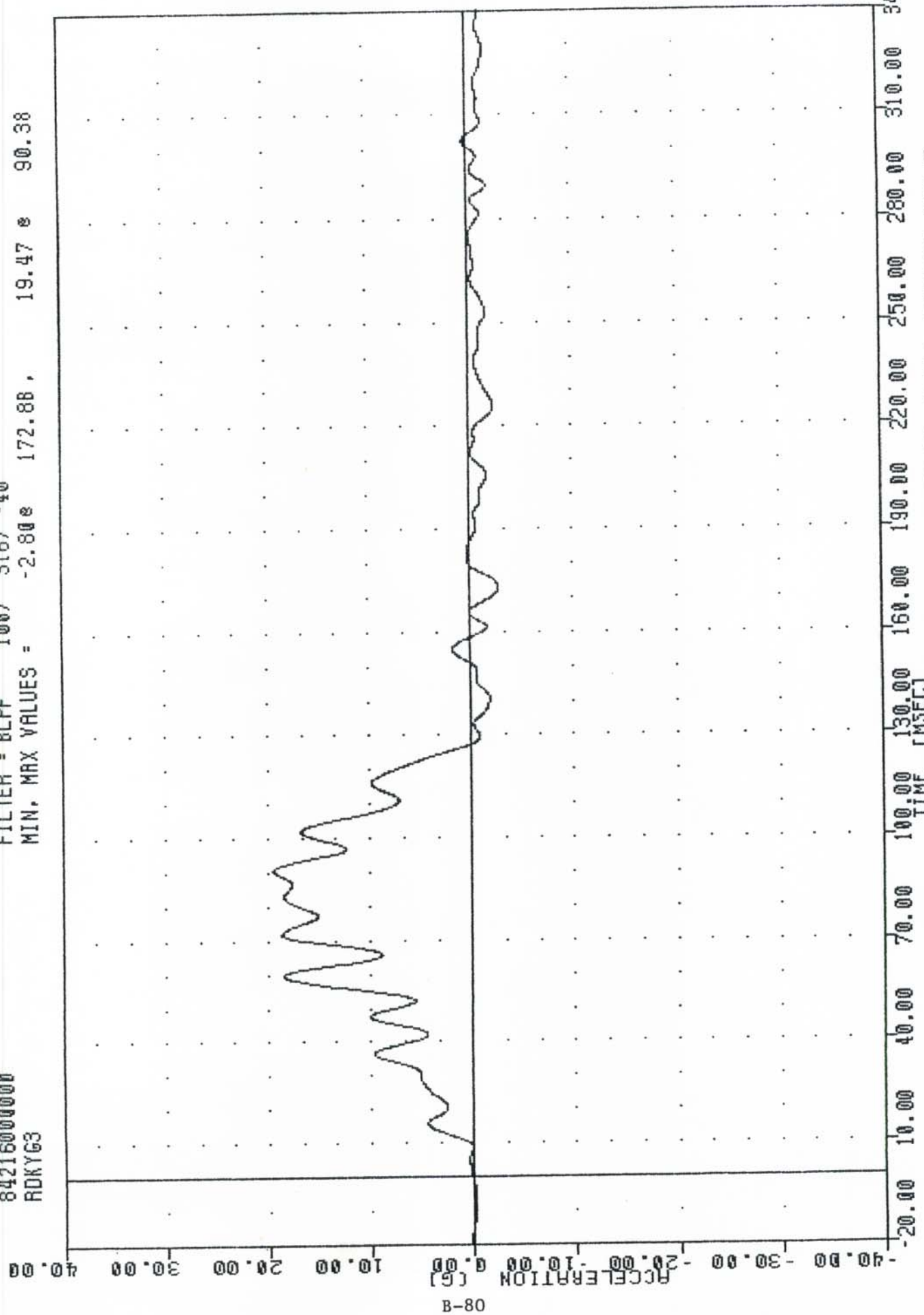
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45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
VEHICLE REAR DECK ACCELERATION X AXIS

T100, 040800
SIDE AGGRESSIVE ATTRIBUTES
84216000000
RDY63

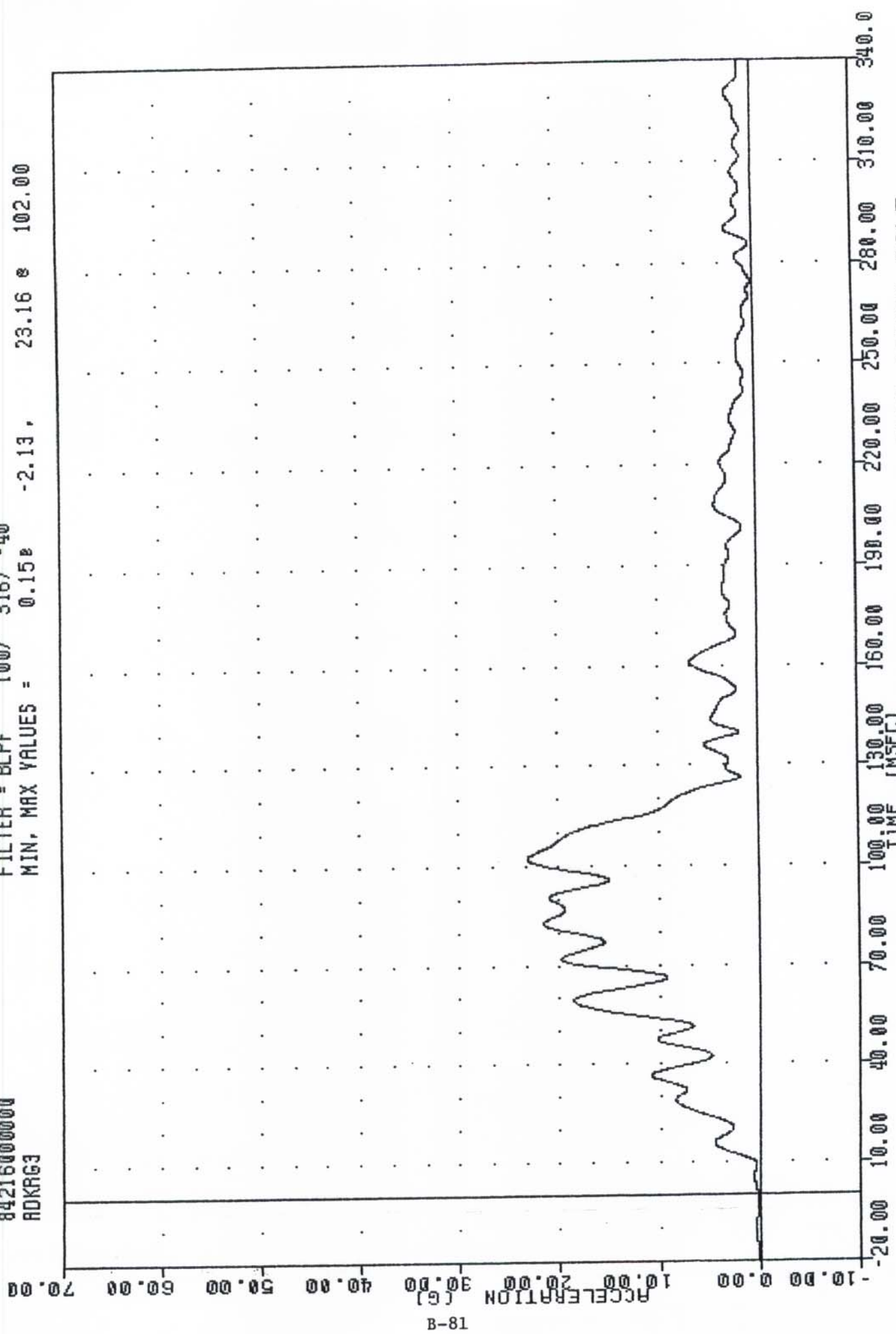
PLU, DATL 25 100-84 10.00:05
FILTER = BLPF 100/ 316/ -40
MIN, MAX VALUES = -2.80e 172.88, 19.47 e 90.38



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
VEHICLE REAR DECK ACCELERATION Y AXIS

TIME 0800
 SIDE AGGRESSIVE ATTRIBUTES
 84216000000
 ROKRG3

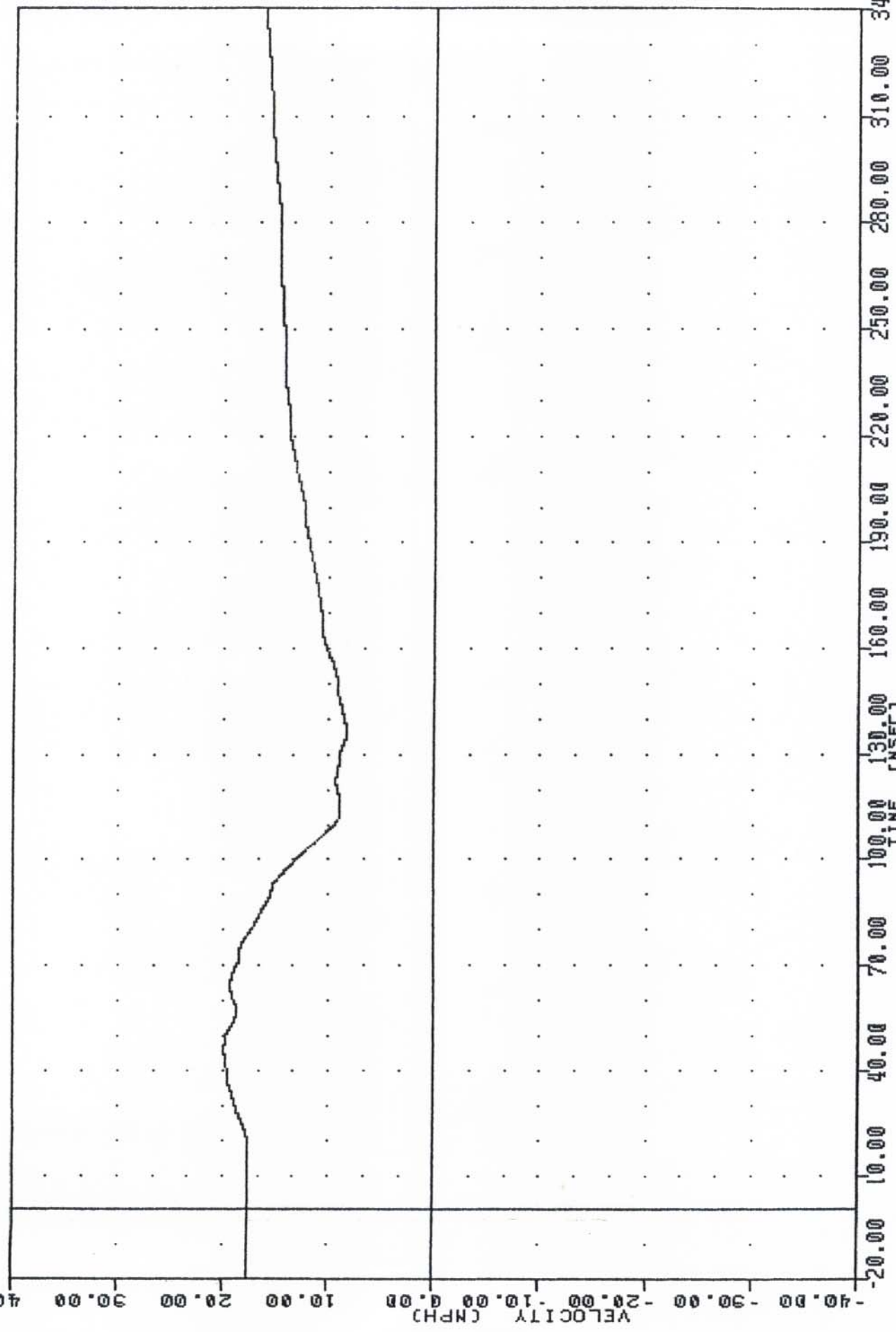
PLU, DATE 25 JUN 64 13:11:35
 FILTER = BLPF 100/ 316/ -40
 MIN, MAX VALUES = 0.15e -2.13, 23.16 e 102.00



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
 VEHICLE REAR DECK RESULTANT USING ONLY X AND Y

TRC 070803
SIDE AGGRESSIVE ATTRIBUTES
84216000000
R0KXV3

PLU, JATE 23 NOV-84 13.23:06
FILTER = BLPF 300/ 949/ -40
MIN, MAX VALUES = 8.30 136.00, 19.93 45.88



B-82

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
DELTA V USING R0KXG3

PLU1 DATL 23 AUG 64 13.23:00

1100 000800
SIDE AGGRESSIVE ATTRIBUTES

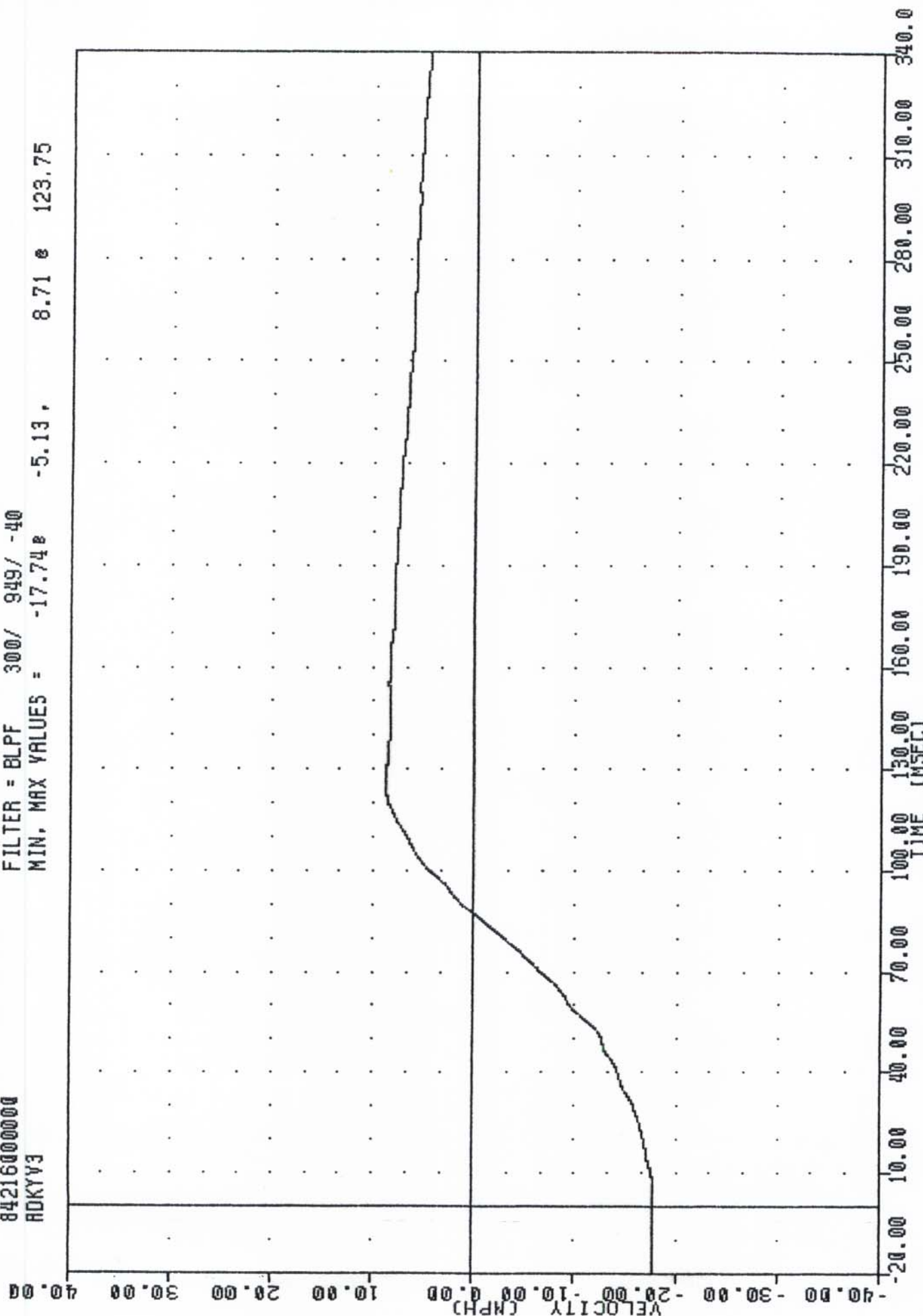
84216000000

ADKYV3

FILTER = BLPF 300/ 949/ -40

MIN, MAX VALUES = -17.748 -5.13, 8.71 @ 123.75

B-83



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE

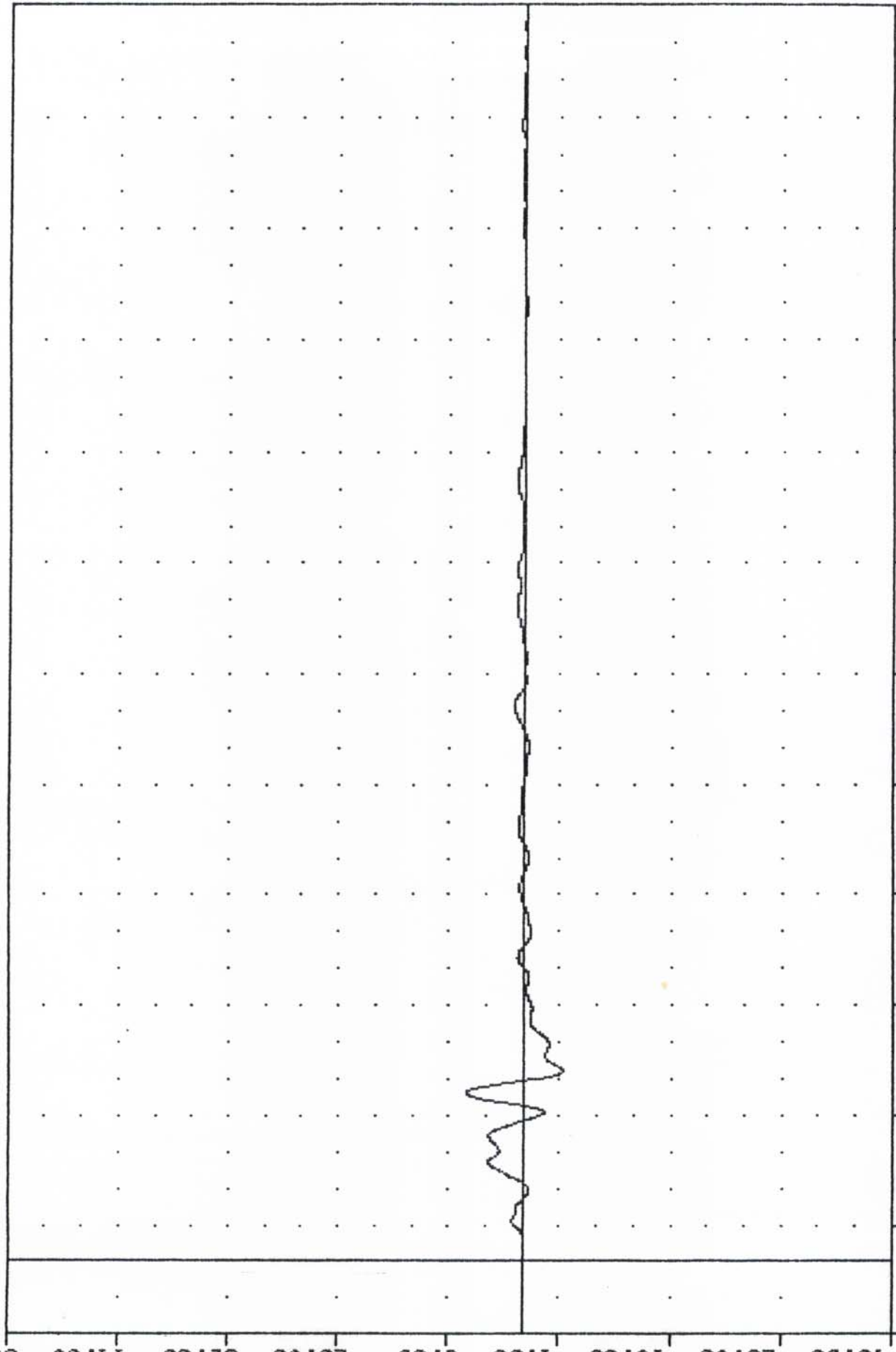
DELTA V USING RDKYG3

THC 040805
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LRSY64

PLU1 DATE 25-nu6-84 13:08:03

FILTER = BLPF 100/ 316/ -40
MIN. MAX VALUES = -43.70 52.00 61.02 46.13

ACCELERATION (G)
(X10⁴)



B-84

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
VEHICLE LEFT REAR SILL ACCELERATION Y AXIS

11

TIME SIDE AGGRESSIVE ATTRIBUTES

FILTER = BLPF 300/ 949/ -40

MIN, MAX VALUES =	-17.79	4.13,	-2.67	46.63
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THIS DELTA V APPEARS UNREALISTIC

B-85

VELOCITY (MPH)

[illegible]

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
TIME (MSEC)
DELTA Y USING LRSYG4

TIME 04:08:00
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LFSYG5

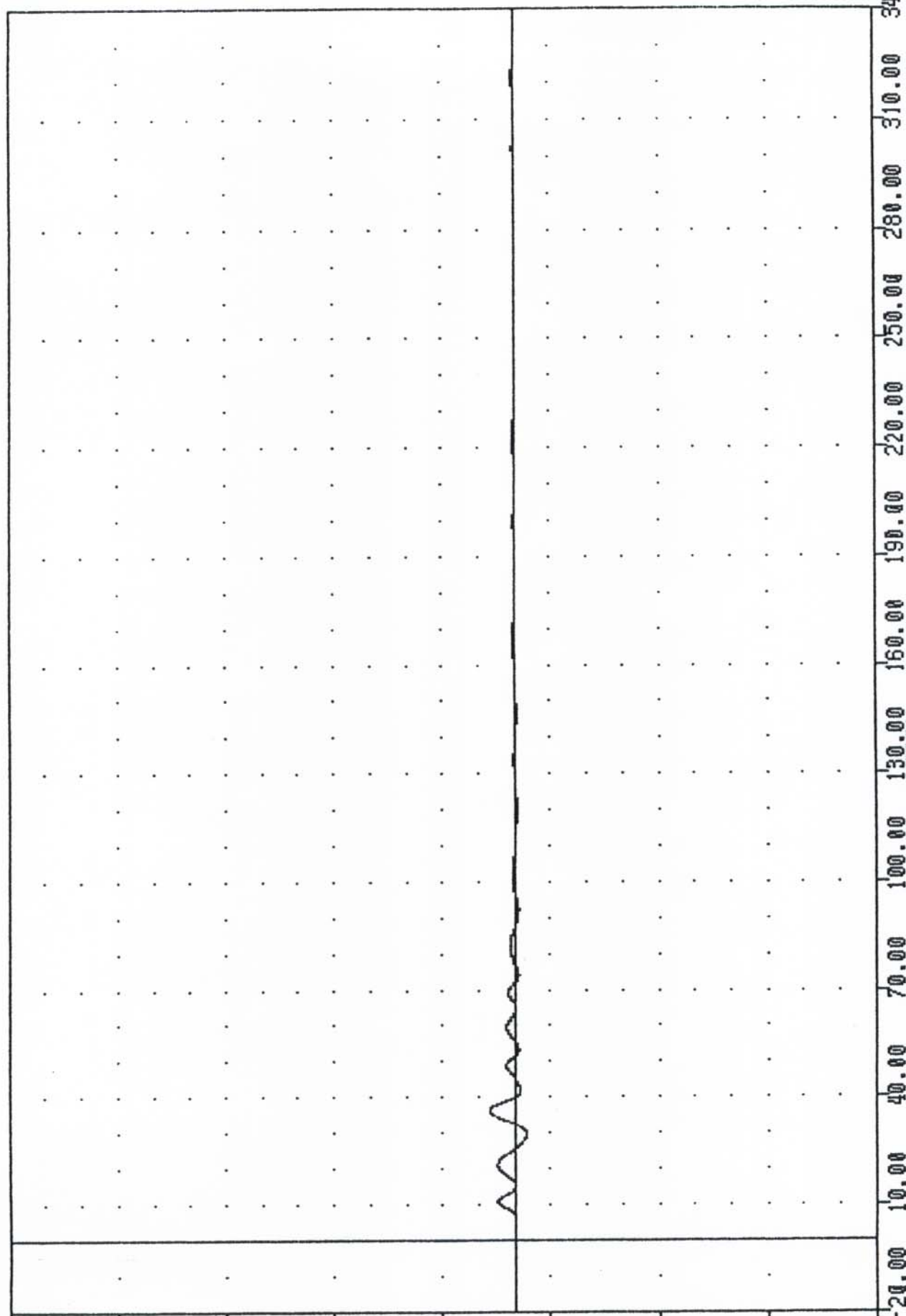
PLUG DATE 25 JUN 84 13:08:00

FILTER = BLPF 100/ 316/ -40
MIN. MAX VALUES = -14.70 29.38 , 27.80 35.88

ACCELERATION (G)

(X10)

B-86



PLU, DATE 23 NOV-84 15:23:06
SIDE AGGRESSIVE ATTRIBUTES

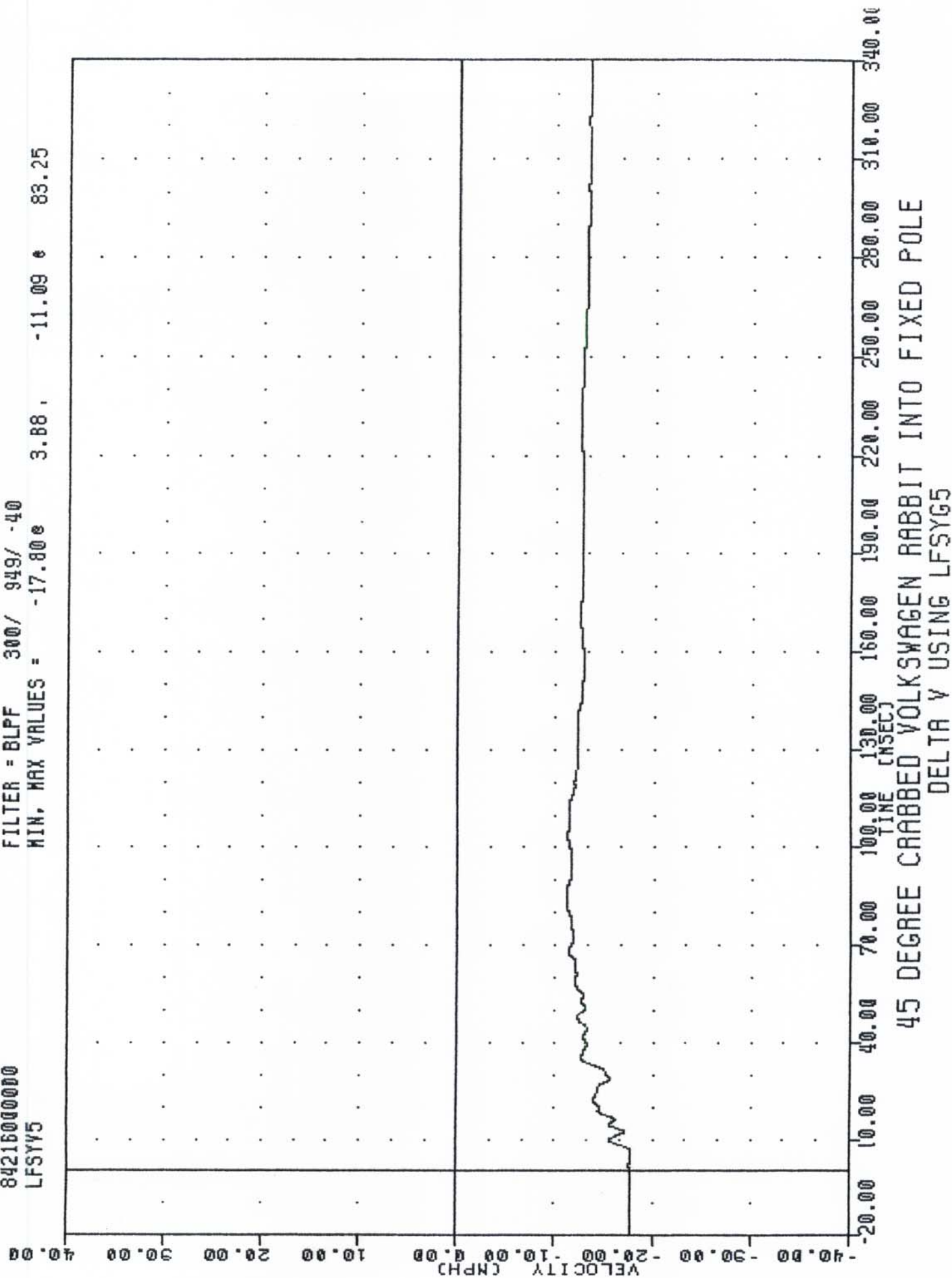
84216000000

LFSYV5

FILTER = BLPF 300/ 949/ -40

MIN, MAX VALUES = -17.80e 3.88, -11.09 e 83.25

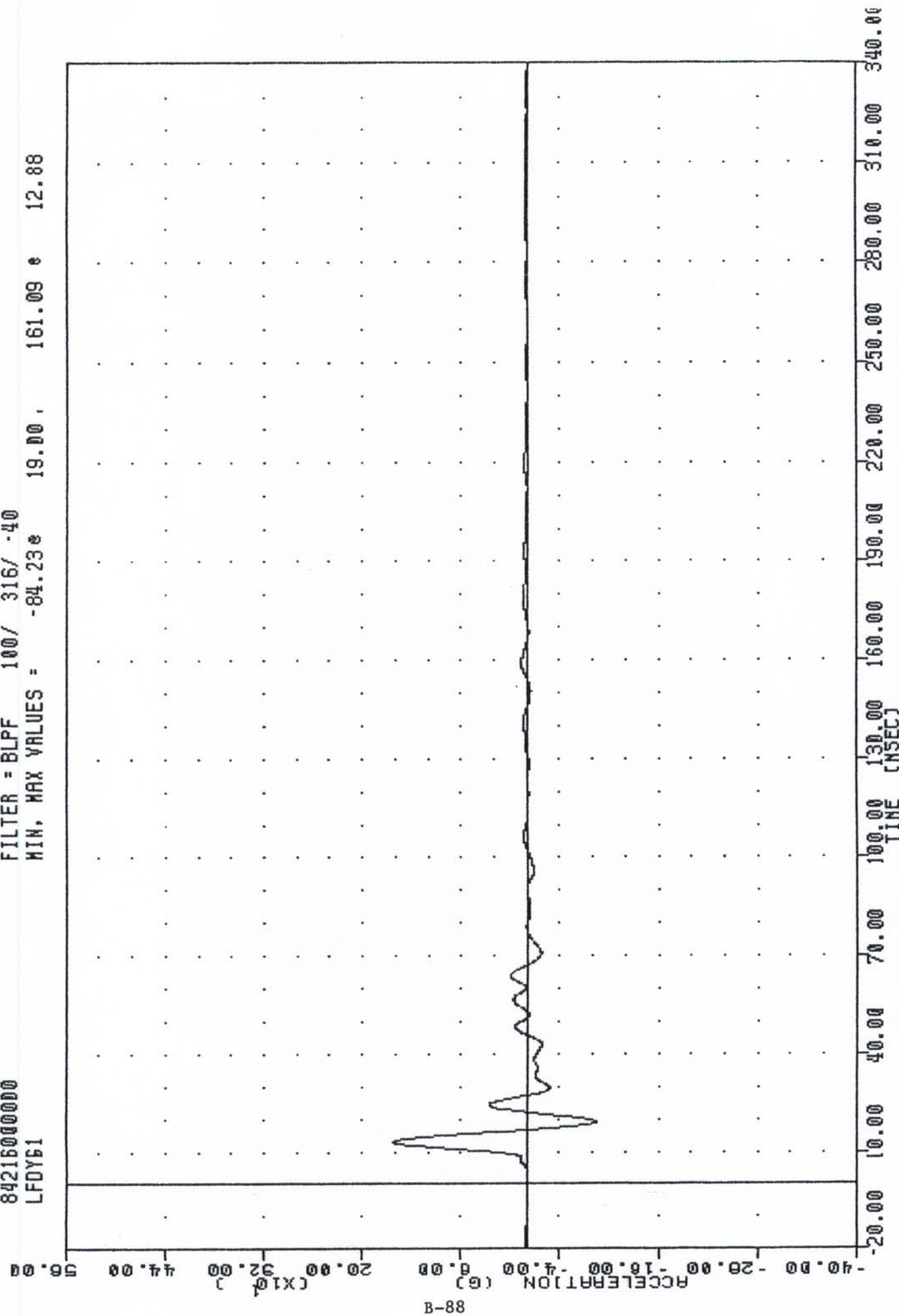
B-87



THC , 040805
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LFDY61

PLU1 DATE 23-nov-84 13:08:03

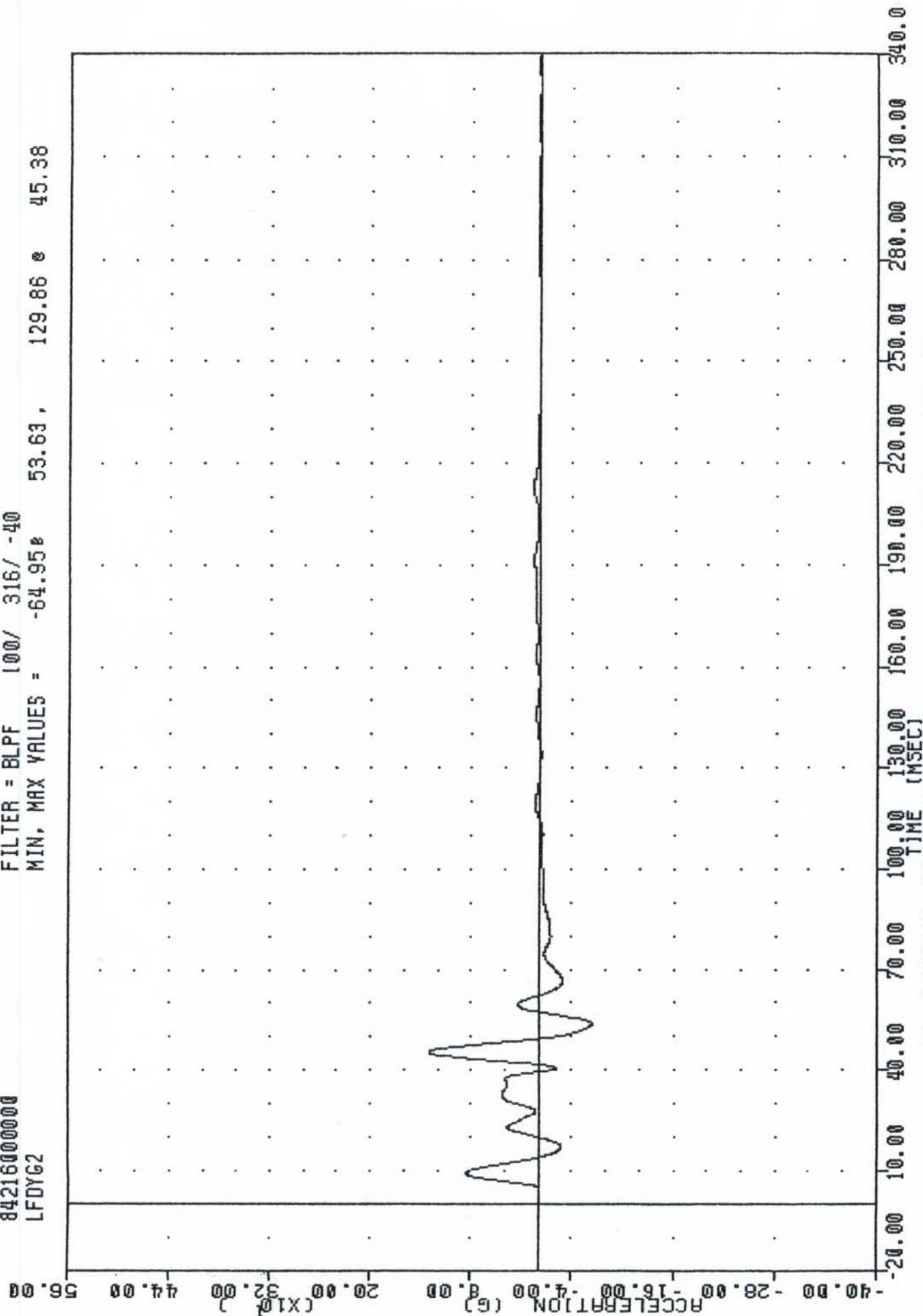
FILTER = BLPF 100/ 316/ -40
MIN, MAX VALUES = -84.23e 19.00, 161.09 e 12.88



THU, 040803
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LFDYG2

PLU1 DATE 25-MUG-84 13:08:03

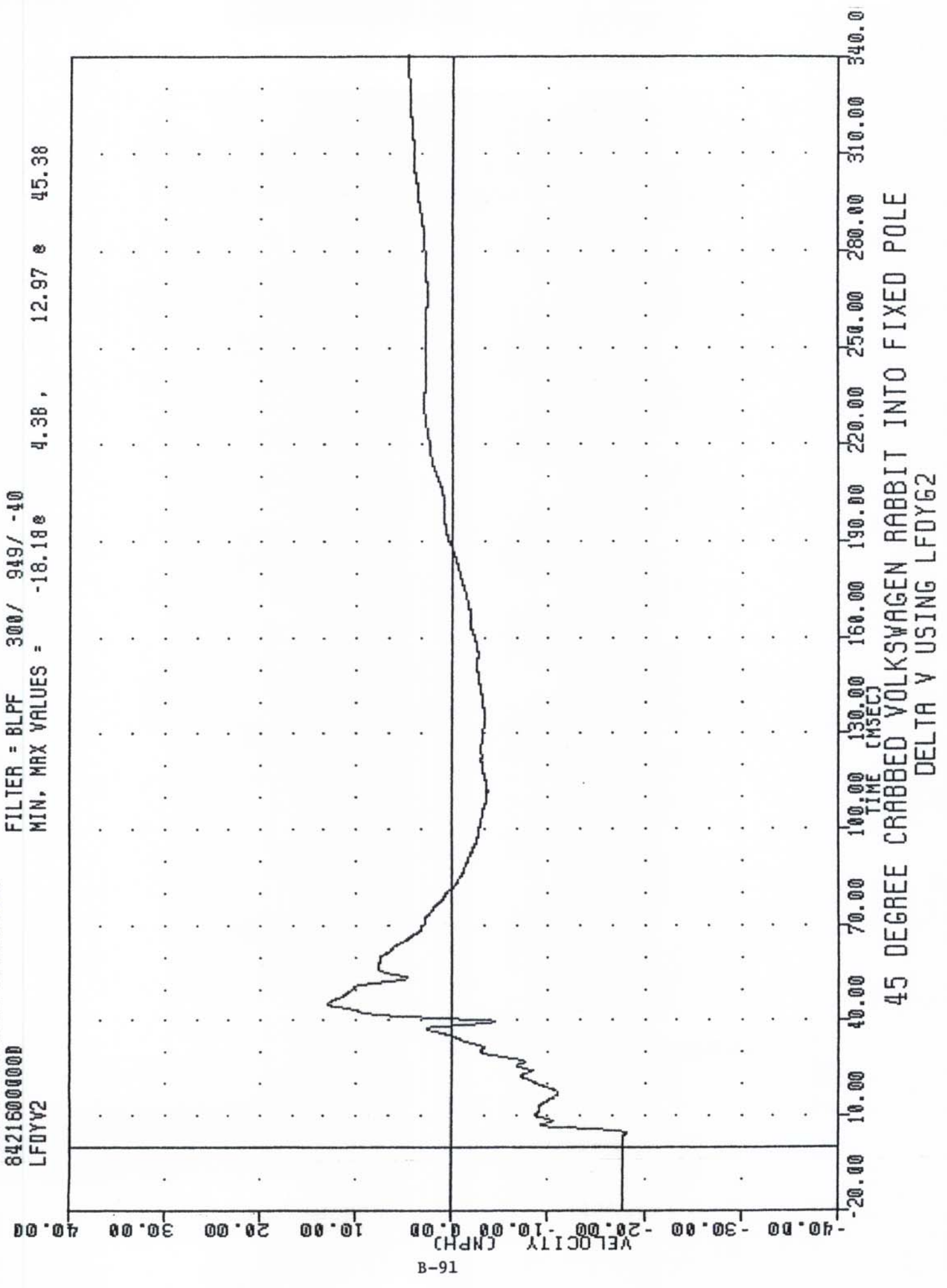
FILTER = BLPF 100/ 316/ -40
MIN, MAX VALUES = -64.95 53.63, 129.86 45.38



B-90

TIME 04:08:00
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LFDYV2

PLU, DATE 25-nov-84 13:23:06
FILTER = BLPF 300/ 949/ -40
MIN, MAX VALUES = -18.18 4.38, 12.97 45.38



TITLE: 040800
SIDE AGGRESSIVE ATTRIBUTES
84216000000
LFDY63

PLU, JATL 25-106-64 15-00:05

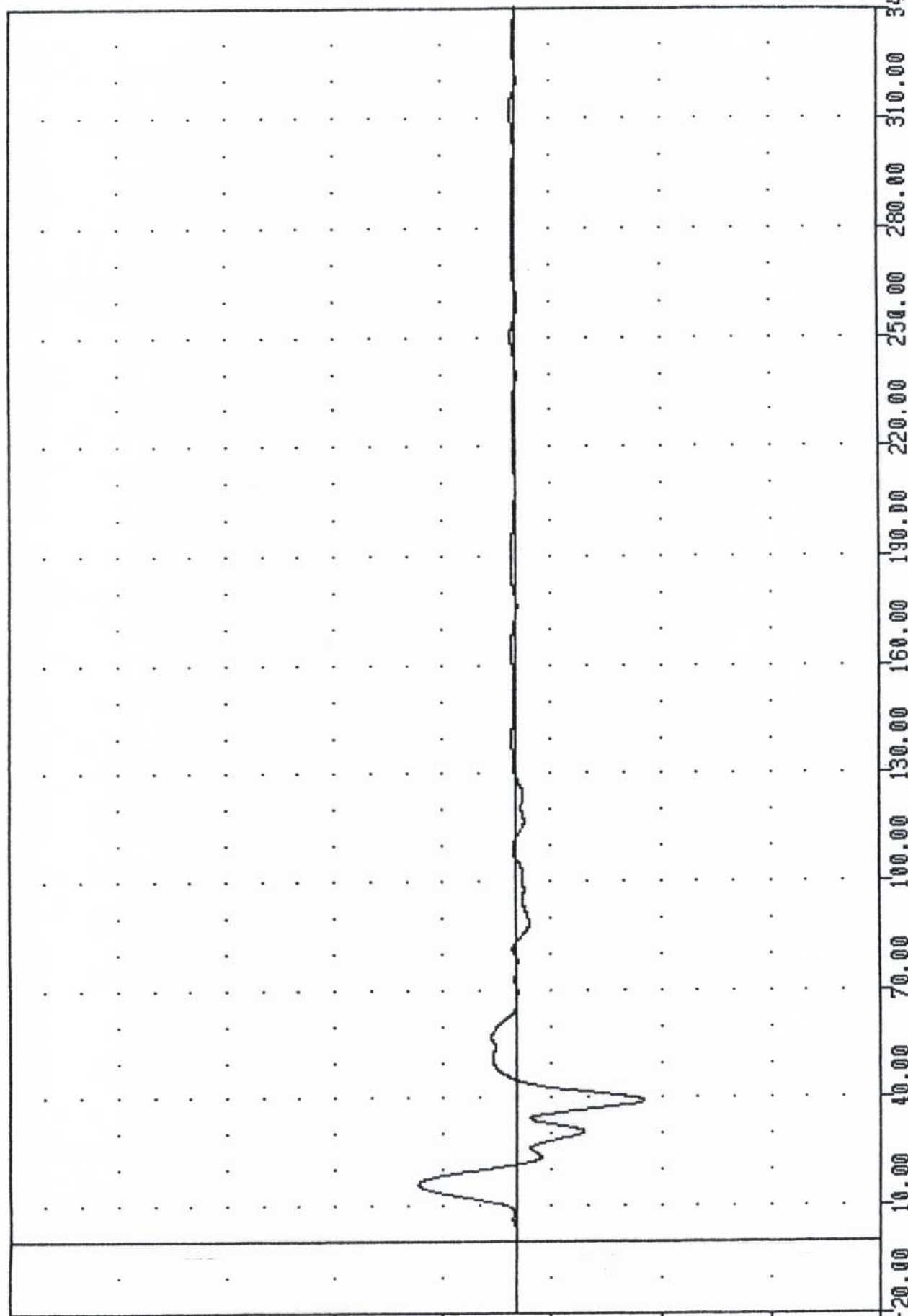
FILTER = BLPF 100/ 316/ -40

MIN, MAX VALUES = -141.35 39.13, 107.39 15.88

ACCELERATION (G)

(X10)

B-92



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
VEHICLE LEFT FRONT DOOR (POSITION 9) ACCELERATION Y AXIS

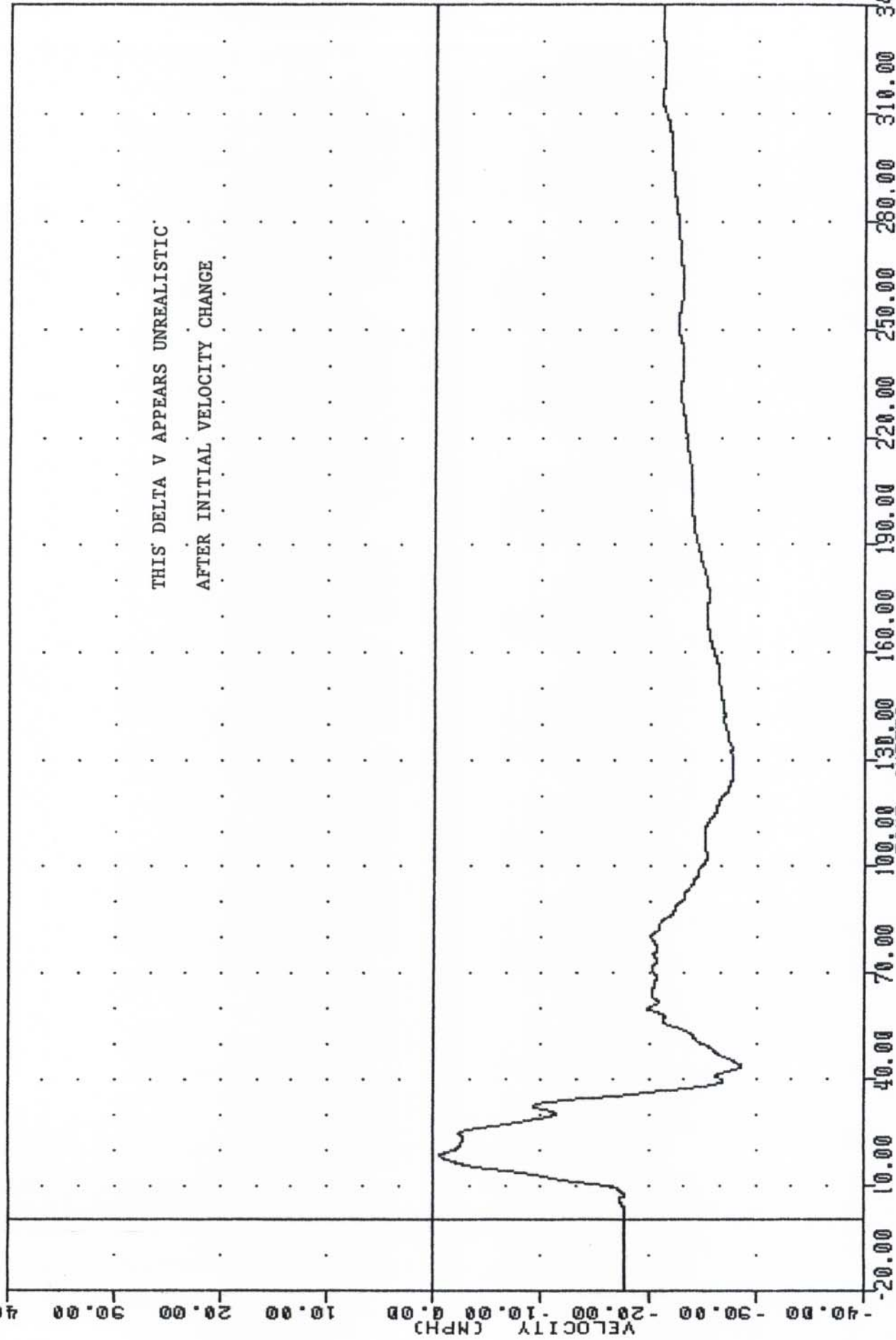
PLU, DATE 20 JUN 67 10:23:00

TIME 0800
SIDE AGGRESSIVE ATTRIBUTES

FILTER = BLPF 300/ 949/ -40
MIN, MAX VALUES = -28.66 43.38, -0.61 18.13

84216000000
LFDYV3

B-93



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
DELTA V USING LFDYV3

TUC 040800
SIDE AGGRESSIVE ATTRIBUTES
84215000000
LFDY64

PLU1 DATE 25-nu6-64 13:08:03

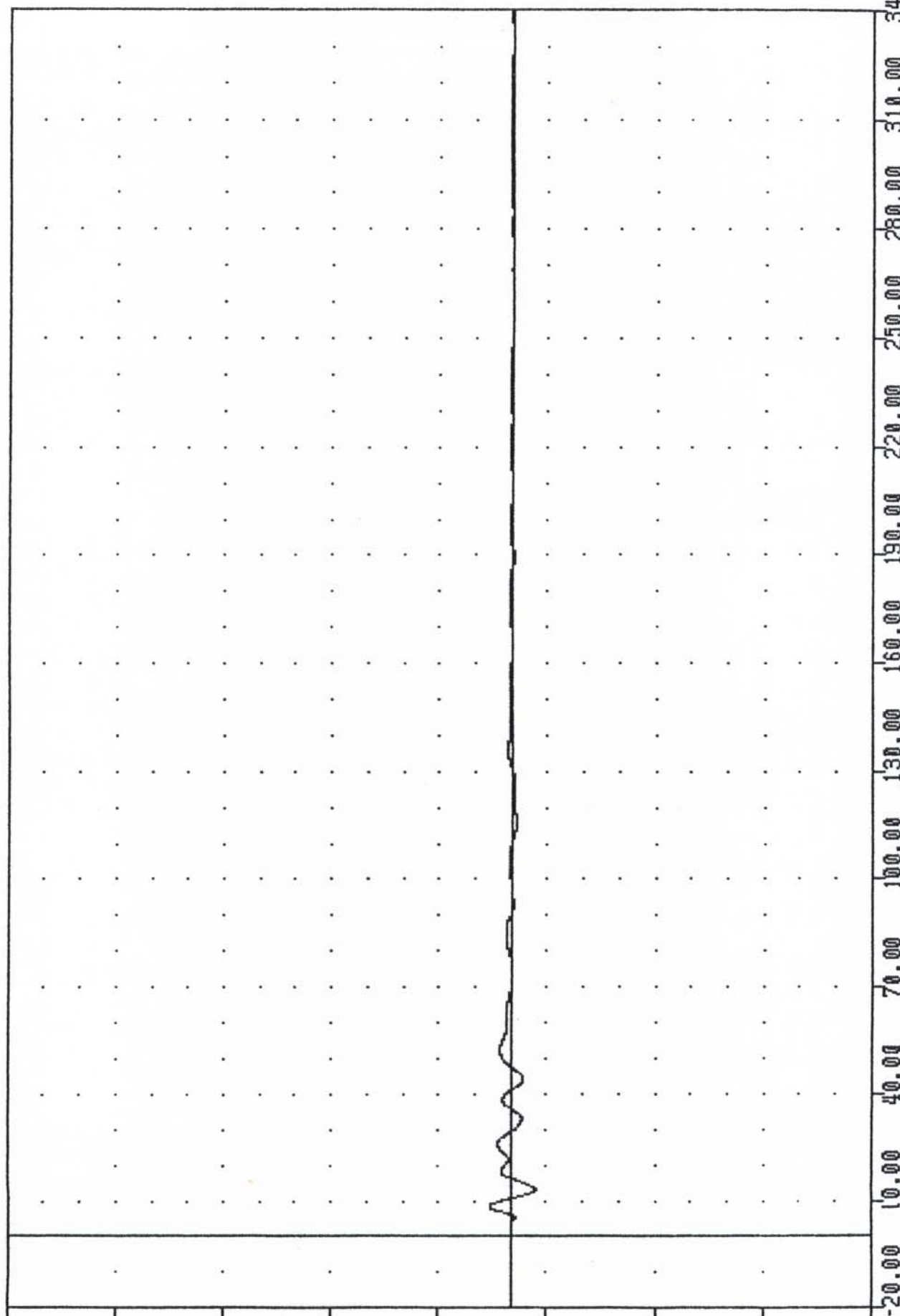
FILTER = BLPF 100/ 316/ -40

MIN. MAX VALUES = -28.00e 13.13, 22.91 e 8.25

ACCELERATION (g)

(X10⁴)

B-94



45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
VEHICLE LEFT FRONT DOOR (POSITION 10) ACCELERATION Y AXIS

PLU, DATL 2J-11UG-04 13.23:00

04080J
SIDE AGGRESSIVE ATTRIBUTES

84216000000

LFDYV4

FILTER = BLPF 300/ 949/ -40

MIN, MAX VALUES = -19.018 12.25, -12.71 340.00

40.00

30.00

20.00

10.00

0.00

-10.00

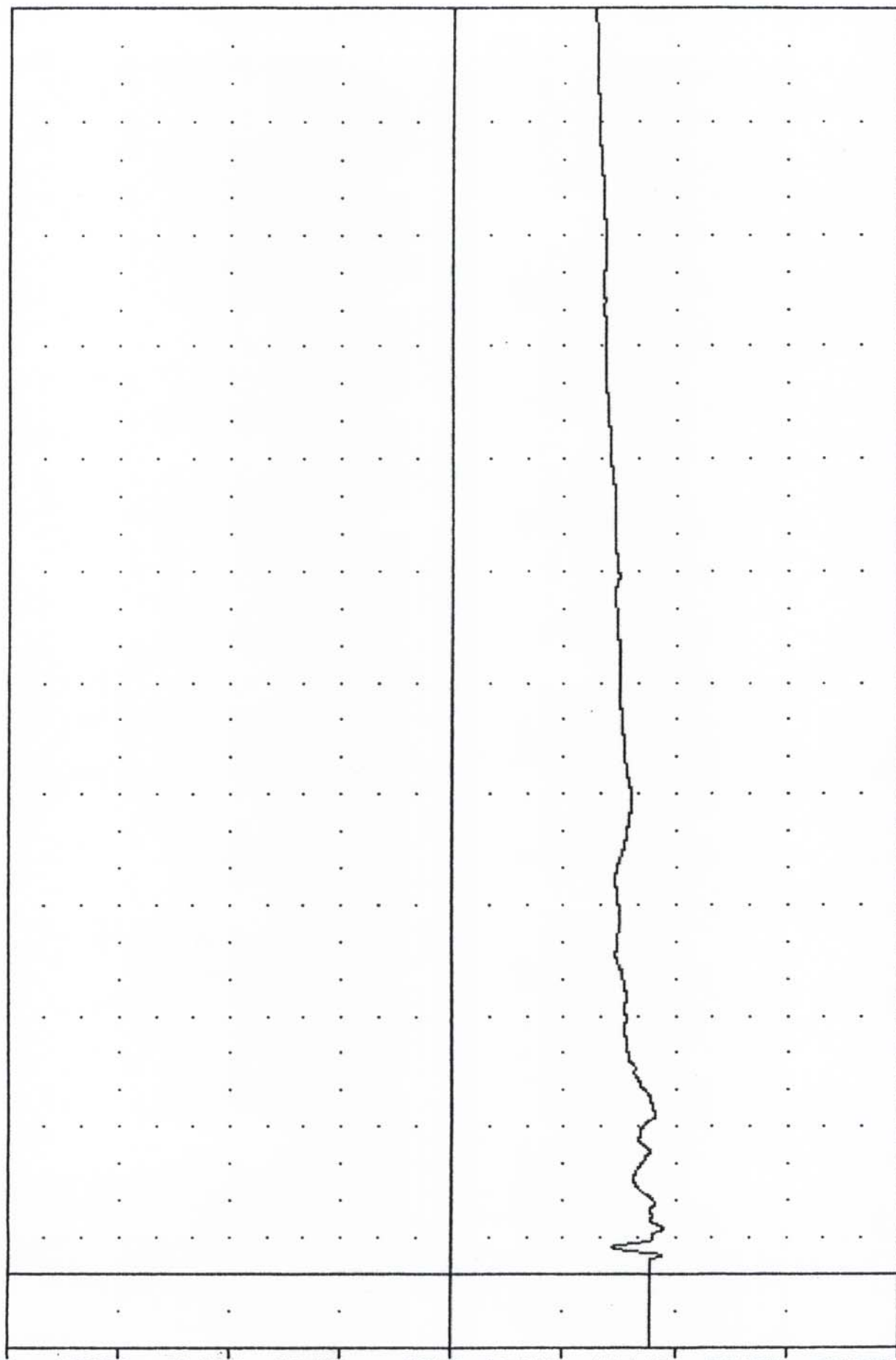
-20.00

-30.00

-40.00

B-95

VELOCITY (MPH)



-20.00 10.00 40.00 70.00 100.00 130.00 160.00 190.00 220.00 250.00 280.00 310.00 340.00

TIME (MSEC)

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE

DELTA V USING LFDYV4

PLC, DATE 20 AUG 84 10:08:00

1000800
SIDE AGGRESSIVE ATTRIBUTES

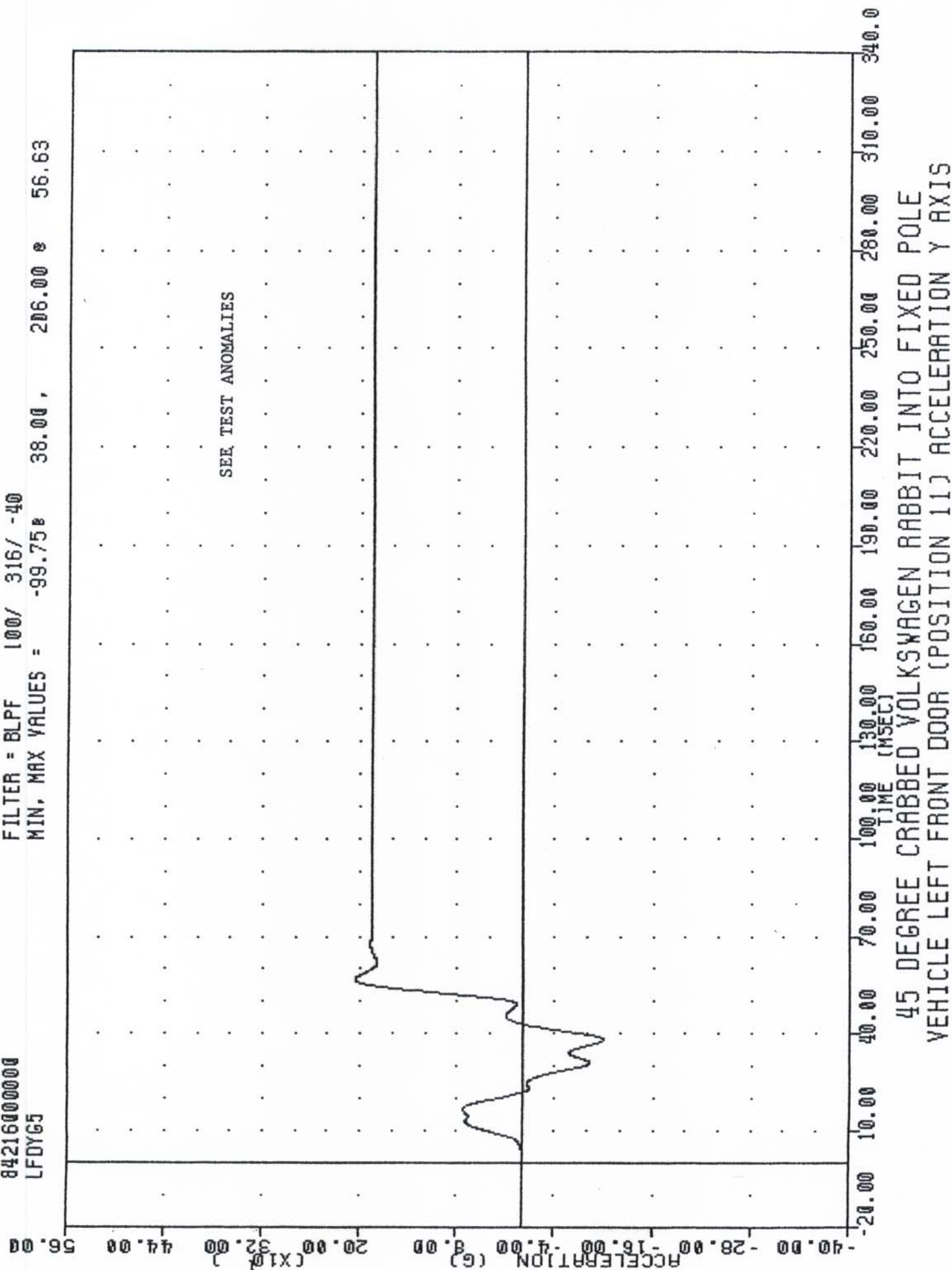
84216000000

LFDY65

FILTER = BLPF 100/ 316/ -40

MIN, MAX VALUES = -99.75 38.00, 206.00 56.63

B-96



PL01 DRTL 25 JG-02 10.23:00

T110 000800

SIDE AGGRESSIVE ATTRIBUTES

84216000000

LFDYV5

FILTER = BLPF 300/ 949/ -40

MIN. MAX VALUES = -24.91e 38.38, 1157.19 e 340.00

40.00

30.00

20.00

10.00

0.00

-10.00

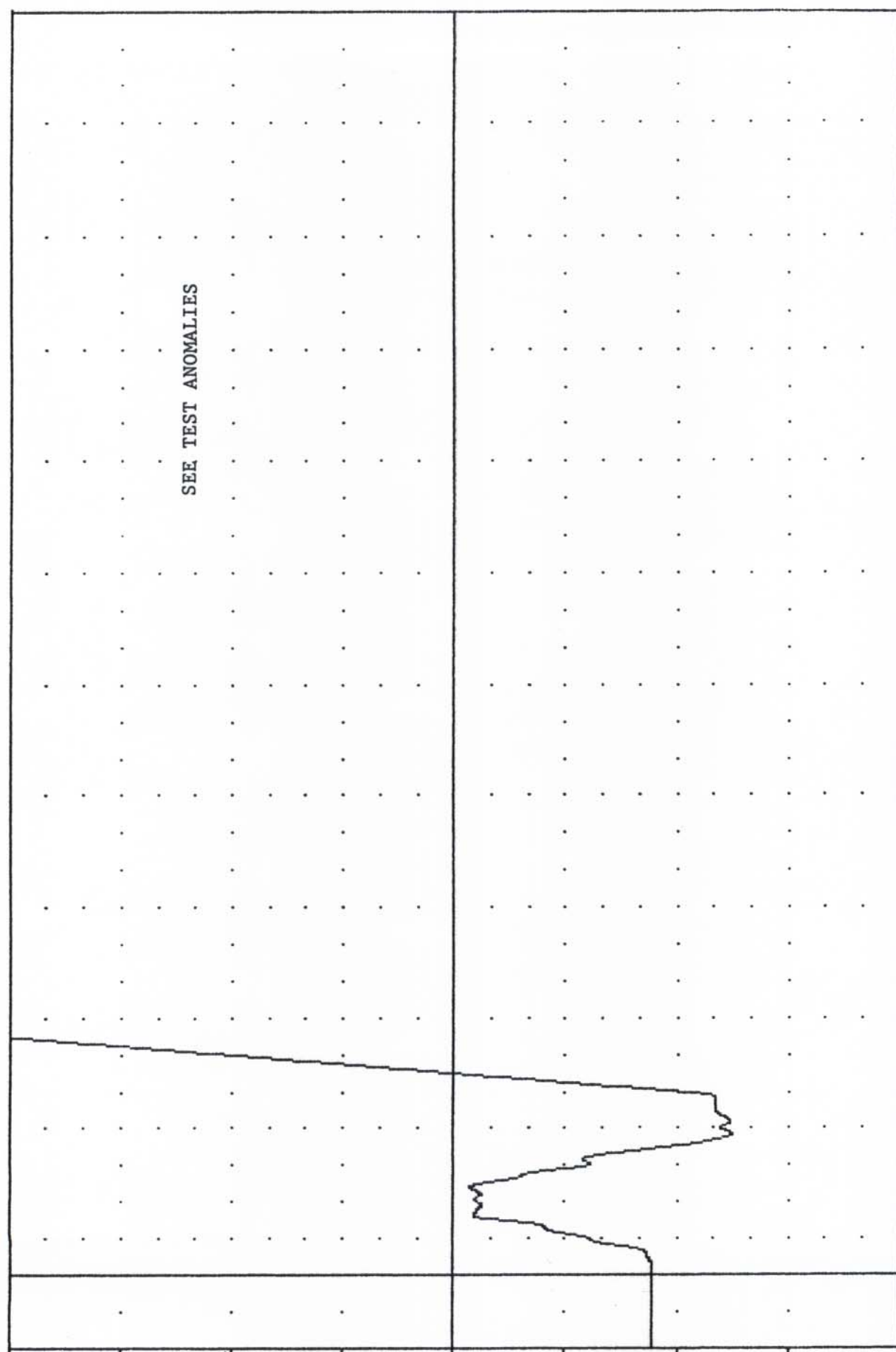
-20.00

-30.00

-40.00

B-97

VELOCITY (MPH)



-20.00 10.00 40.00 70.00 100.00 130.00 160.00 190.00 220.00 250.00 280.00 310.00 340.00

TIME (MSEC)

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE

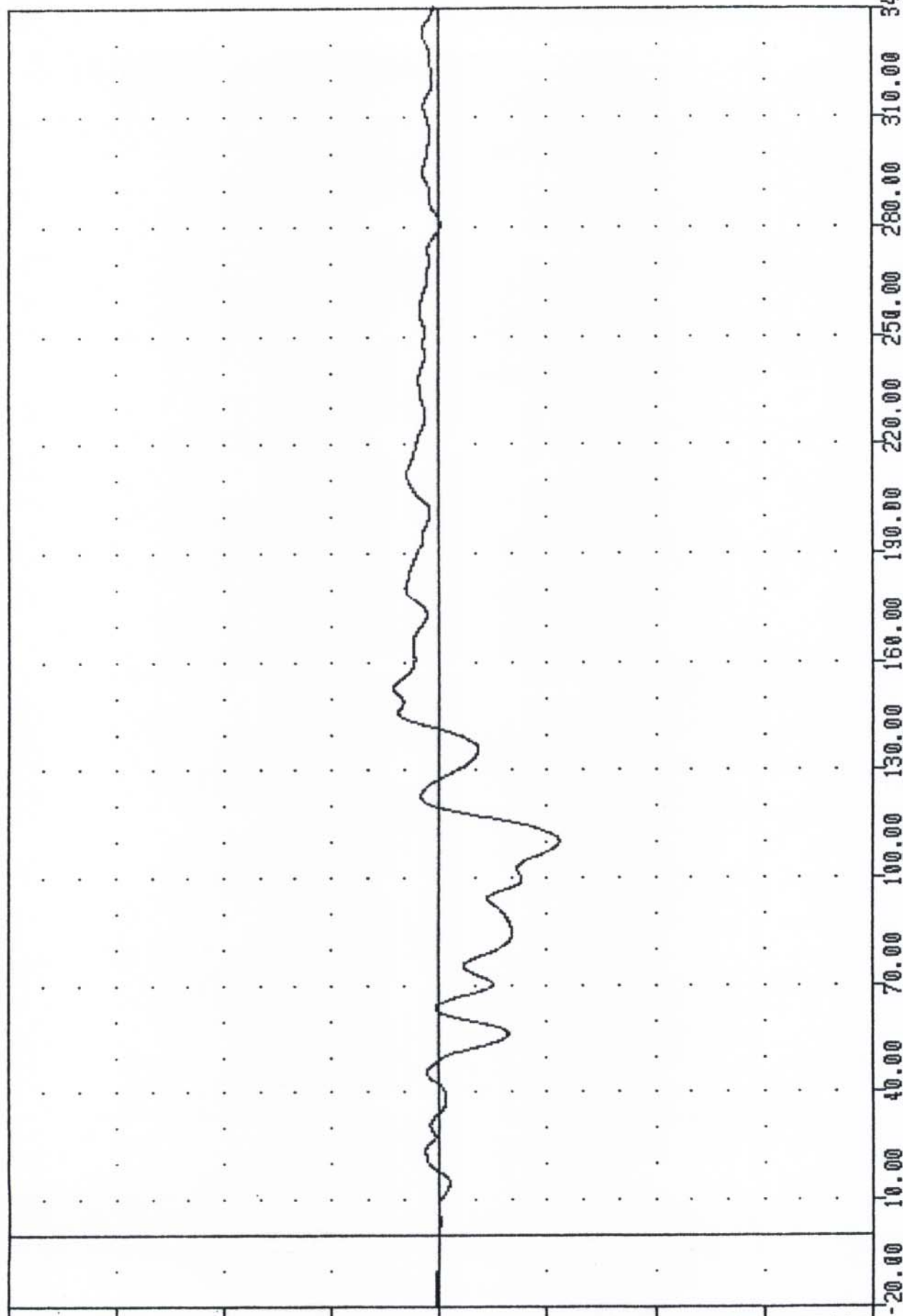
DELTA V USING LFDY65

TITLE: 040800J
SIDE AGGRESSIVE ATTRIBUTES
84216000000
TFAXG7

PLU1 DATE 25-MUG-64 13:08:03

FILTER = BLPF 100/ 316/ -40
MIN. MAX VALUES = -11.12e 110.13, 4.28 e 152.75

ACCELERATION (G)



B-98

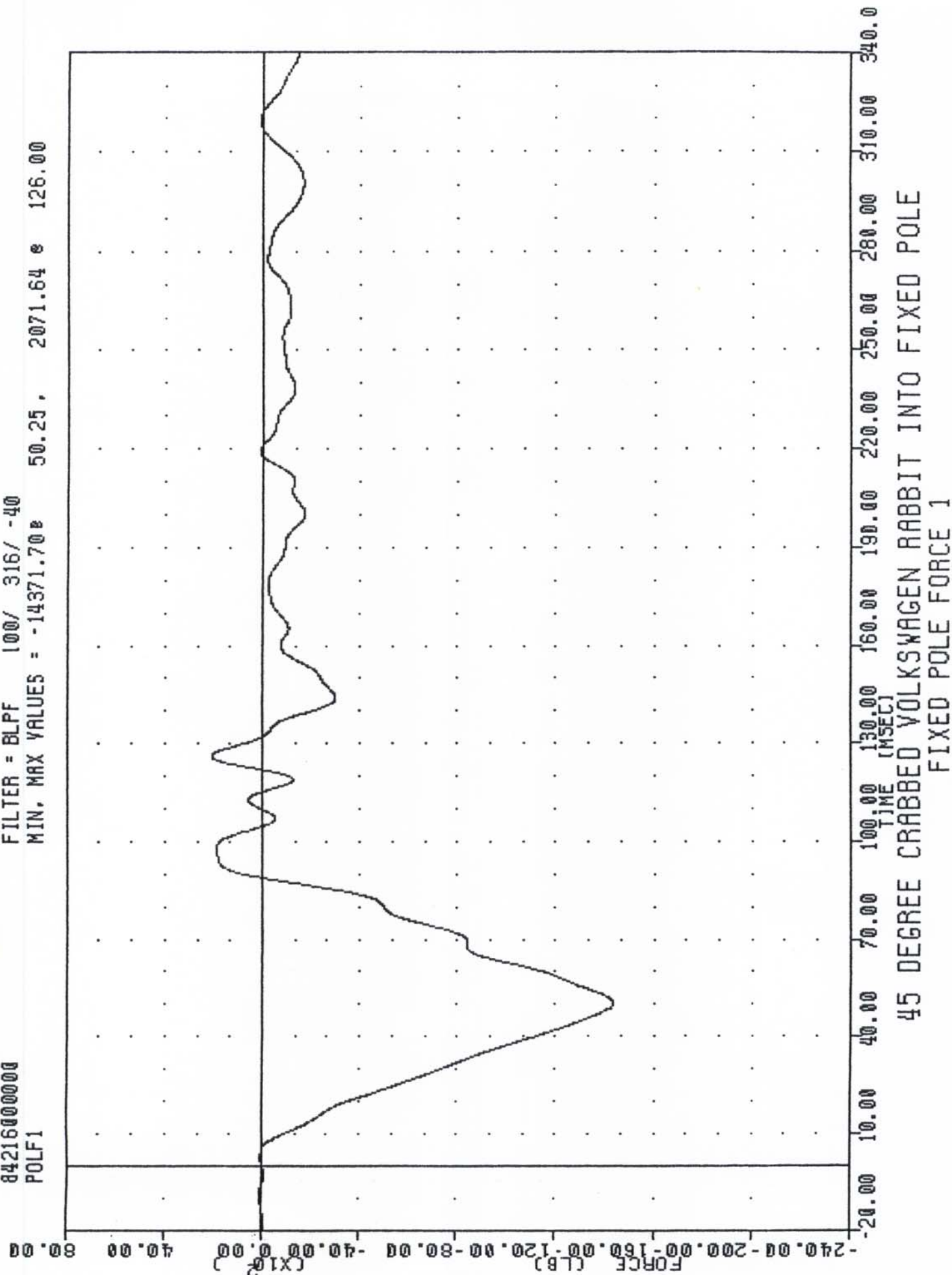
45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
VEHICLE TRUNK FLOOR RIGHT ACCELERATION X AXIS

PLU, DATE 23 AUG 04 13:08:03

TIME 04:08:03
SIDE AGGRESSIVE ATTRIBUTES
84216000000
POLF1

FILTER = BLPF 100/ 316/ -40
MIN, MAX VALUES = -14371.70 50.25, 2071.64 126.00

B-99



PLC, DATA 20, JG-C-2 10:08:00

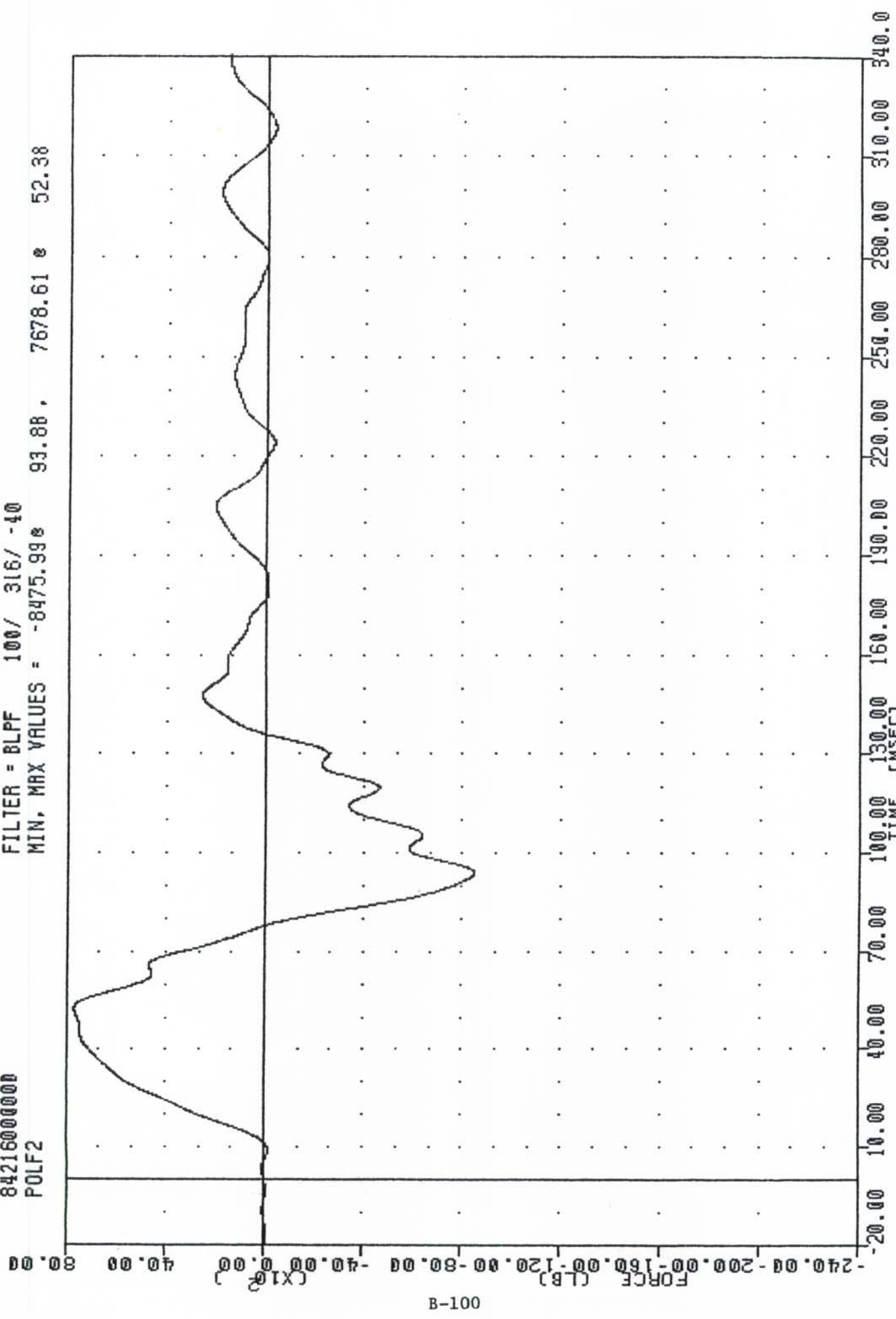
SIDE AGGRESSIVE ATTRIBUTES

84216000000

POLF2

FILTER = BLPF 100/ 316/ -40

MIN, MAX VALUES = -8475.99 93.88, 7678.61 52.38



B-100

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
FIXED POLE FORCE 2

TITLE: 040803
SIDE AGGRESSIVE ATTRIBUTES

PL01, DAT1 25-NOV-64 13:08:03

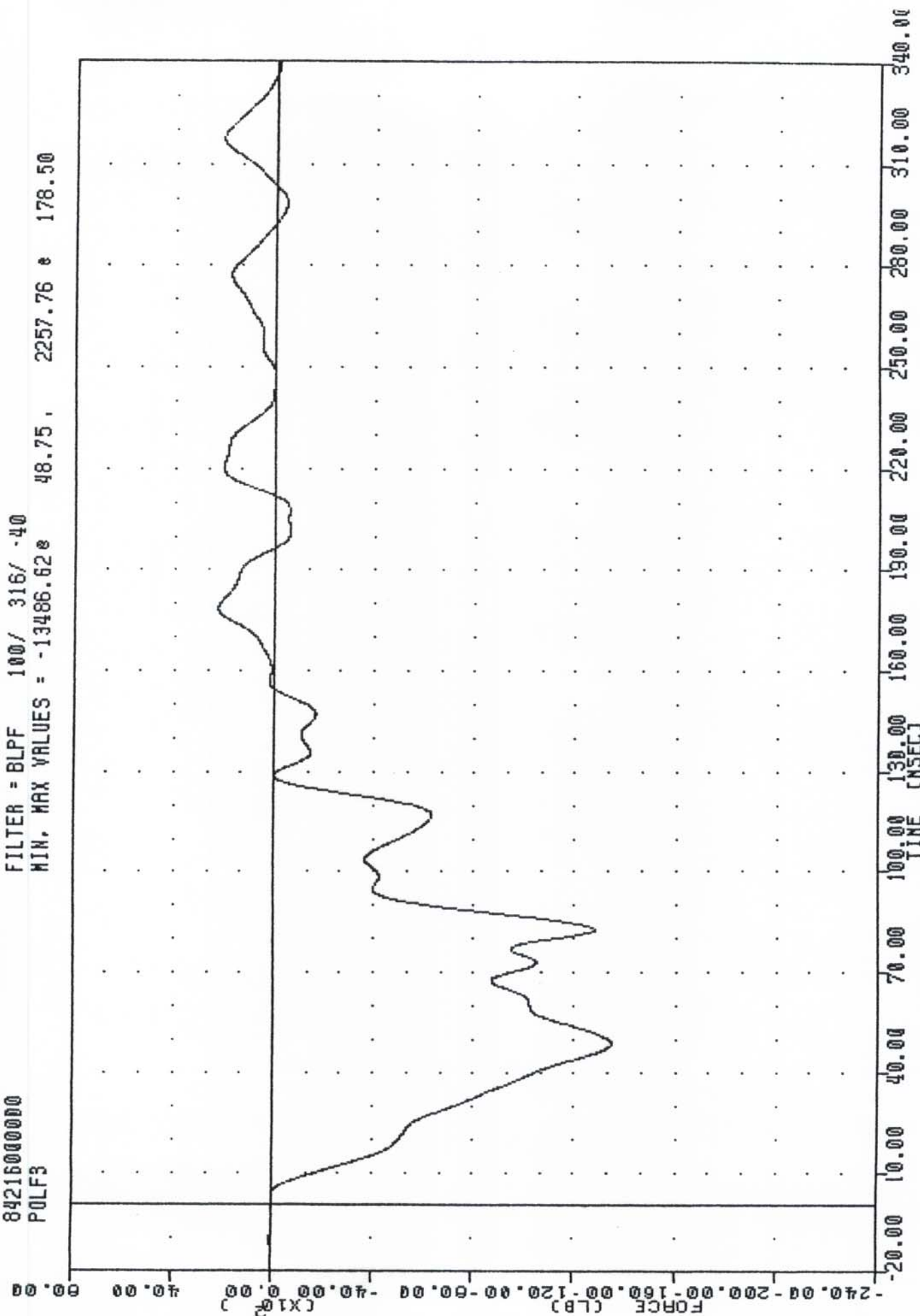
84216000000

POLP3

FILTER = BLPF 100/ 316/ -40

MIN, MAX VALUES = -13486.62 48.75, 2257.76 178.50

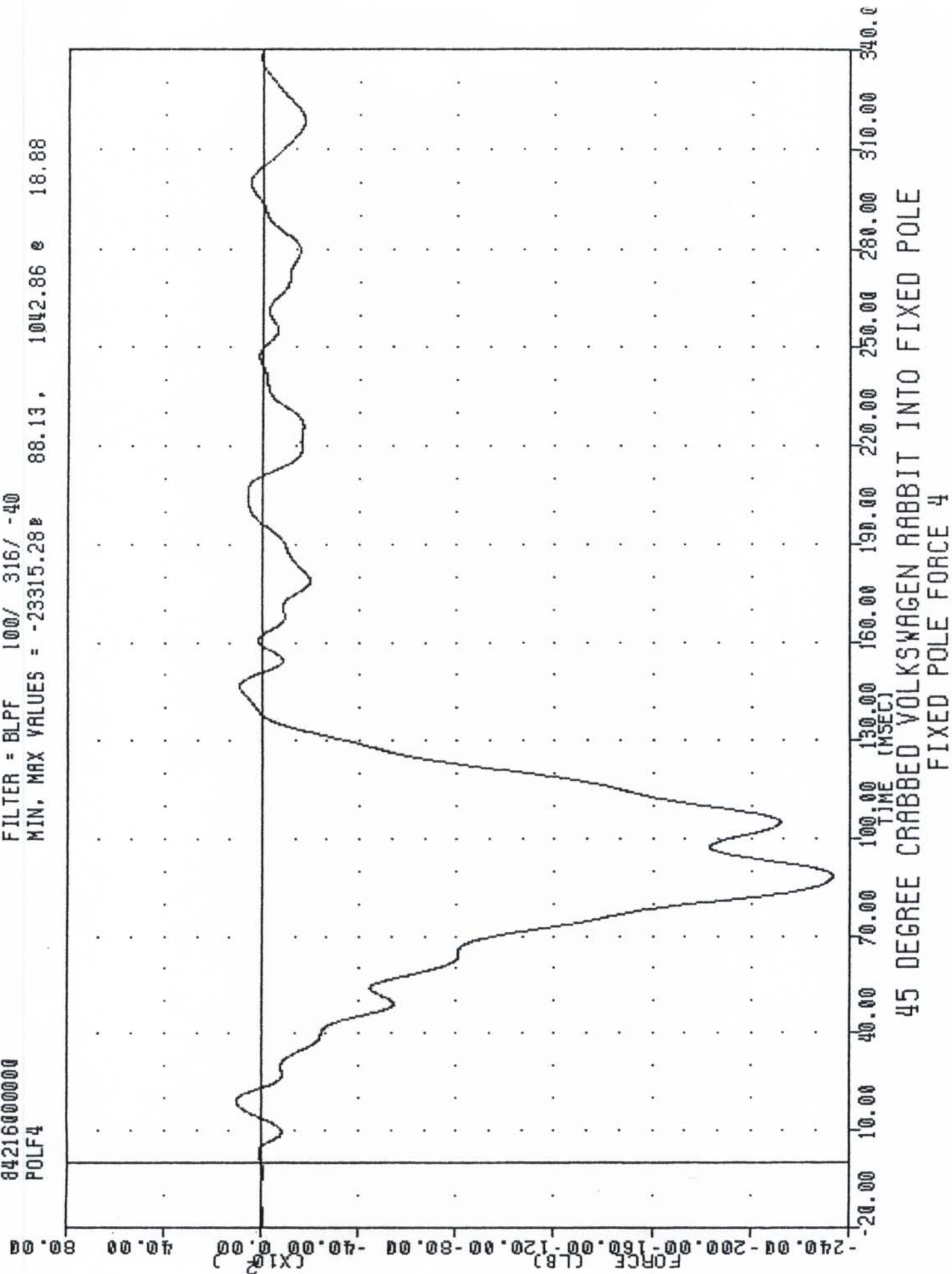
B-101



PLU1 DAIL 2J HUG-UZ 1J-08:00

7 040800
SIDE AGGRESSIVE ATTRIBUTES
84216000000
POLF4

FILTER = BLPF 100/ 316/ -40
MIN, MAX VALUES = -23315.28 88.13, 1042.86 18.88



PLC, DATE 20 AUG 67 10:23:00

SIDE AGGRESSIVE ATTRIBUTES

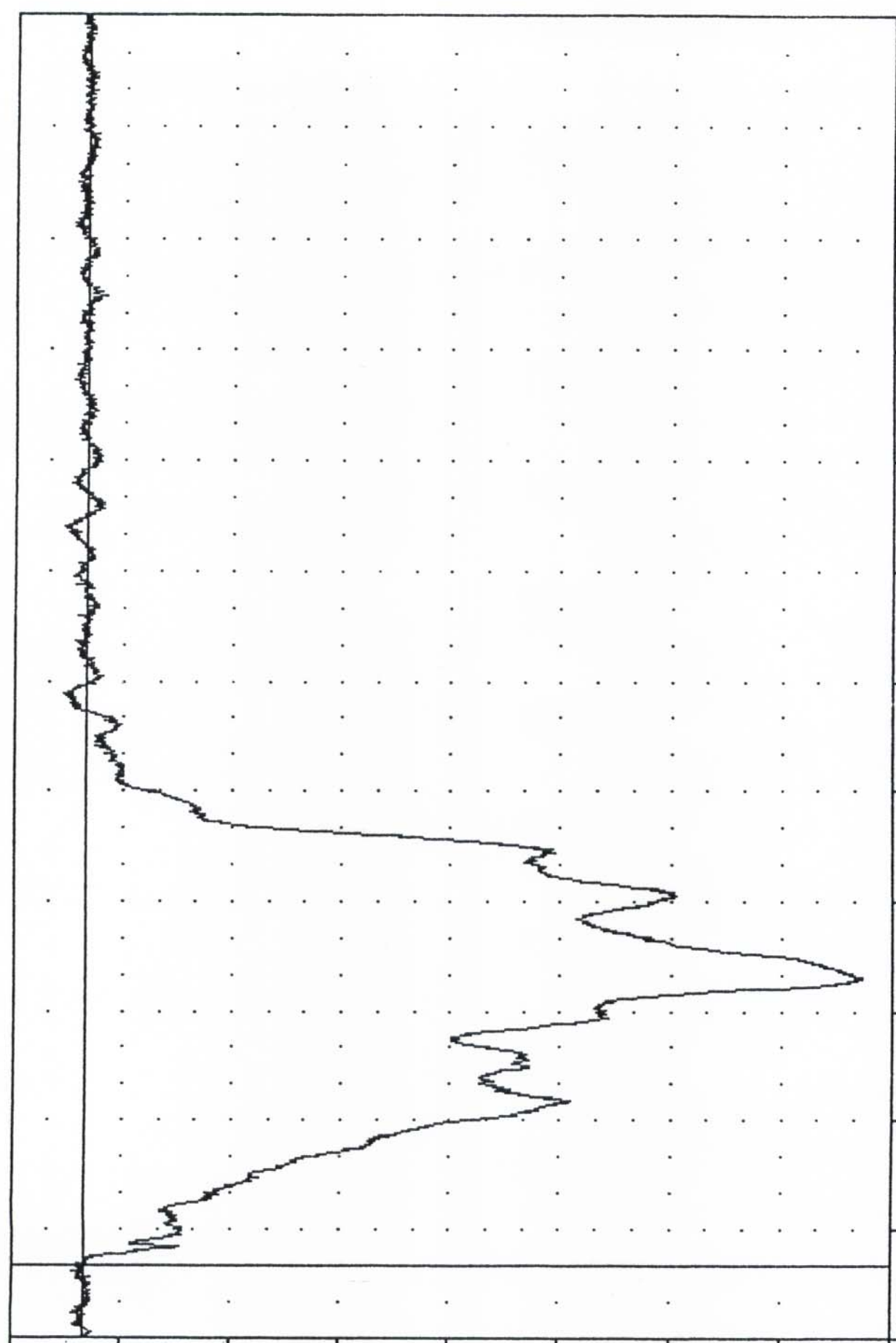
84216000000

POLFT

FILTER = ALPF 1650/ 5217/ -40

MIN, MAX VALUES = -42379.20 78.50, 1228.49 156.25

FORCE (LB) $\times 10^2$

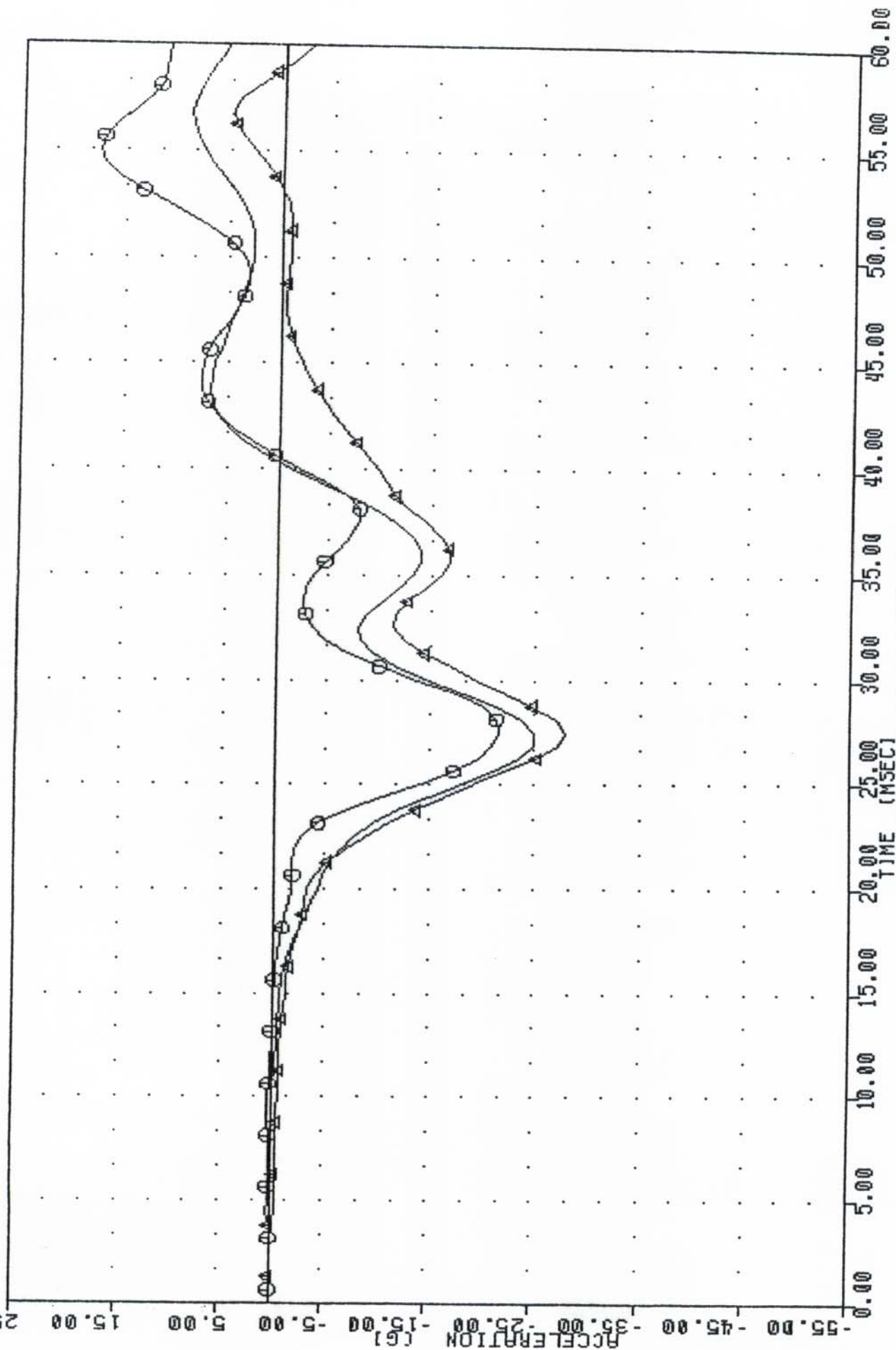


B-103

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
TOTAL OF FOUR POLE FORCES

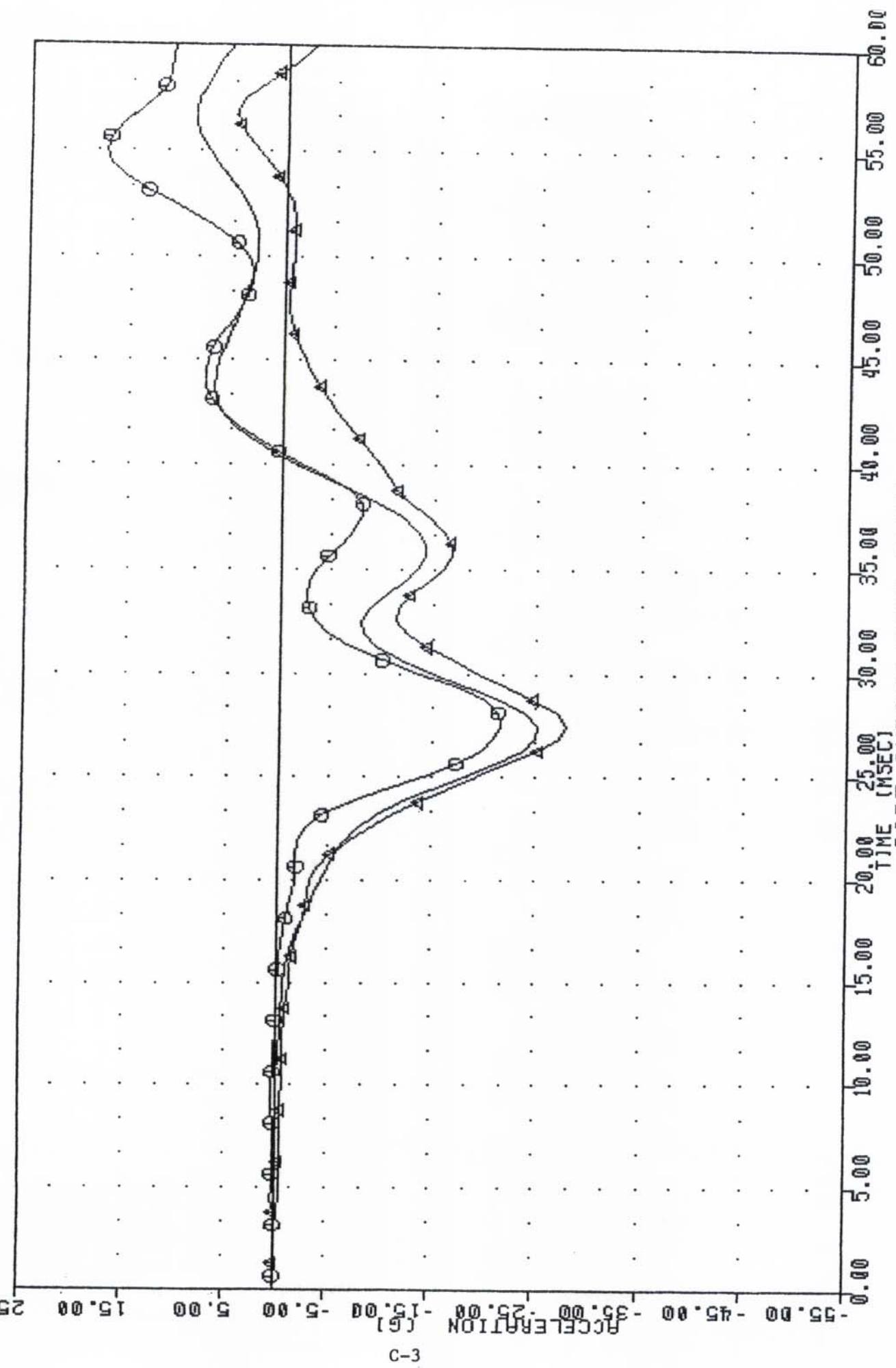
APPENDIX C
DUMMY CERTIFICATION

INURAX 318 LHL109 8422W PLU1 UATE 27-HUL-84 08:36:58
 136/ 189/ -50 MIN, MAX = -24.93 8 8.76 56.25
 136/ 189/ -50 MIN, MAX = -21.58 8 17.54 54.38
 136/ 189/ -50 MIN, MAX = -27.91 8 4.78 56.25



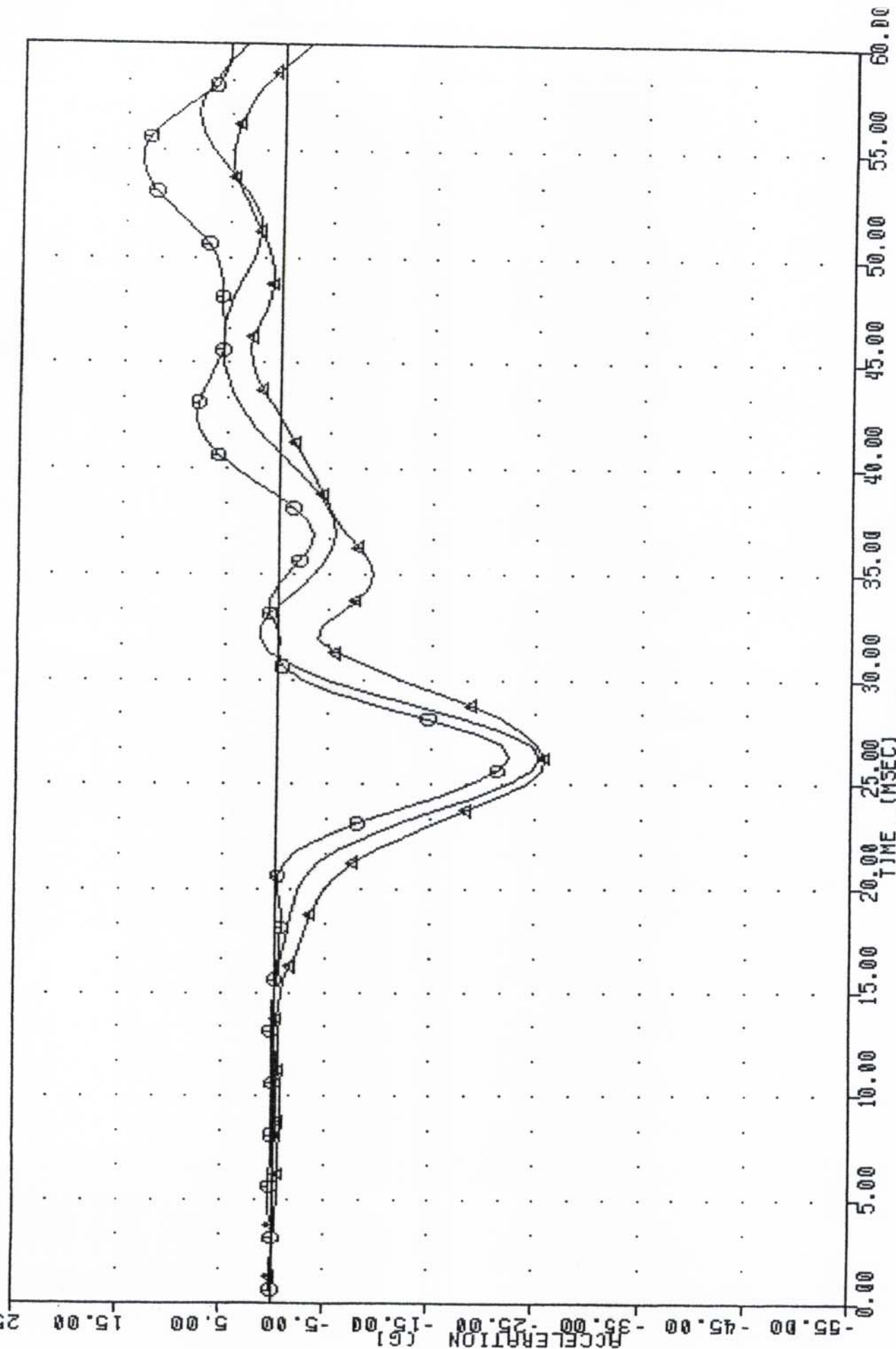
SIDE IMPACT TEST (006)
 UPPER SPINE ACCELERATION Y AXIS - 1

J10 MINMAX 8422w PL01 DATE 27-AUG-84 08:54:53
 TOYGA 136/ 189/ -50 MIN, MAX = -25.13 26.87 8.79 56.25
 MN-2SD 136/ 189/ -50 MIN, MAX = -21.58 26.87 17.54 54.38
 MN-2SD 136/ 189/ -50 MIN, MAX = -27.91 26.87 4.78 56.25

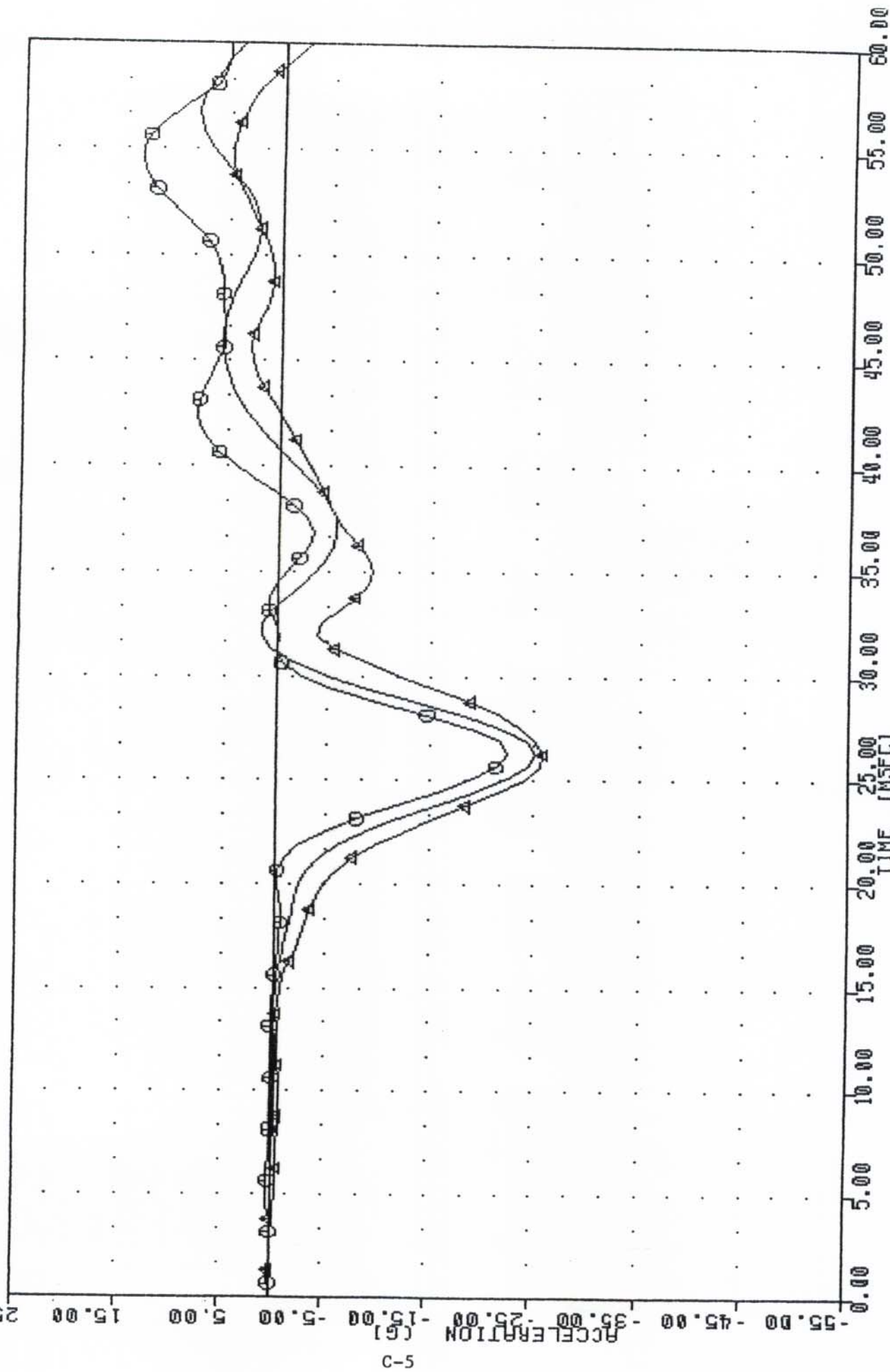


SIDE IMPACT TEST (006)
 UPPER SPINE ACCELERATION Y AXIS - A

T12YGI
 MN-2SD
 MN-2SD
 FILTER : HSRI
 FILTER : HSRI
 FILTER : HSRI
 JID
 MIN, MAX =
 MIN, MAX =
 MIN, MAX =
 842zw
 PL0, RATE
 27-nov-84
 08:30:42
 8.098
 13.540
 4.858
 25.63
 25.63
 25.63

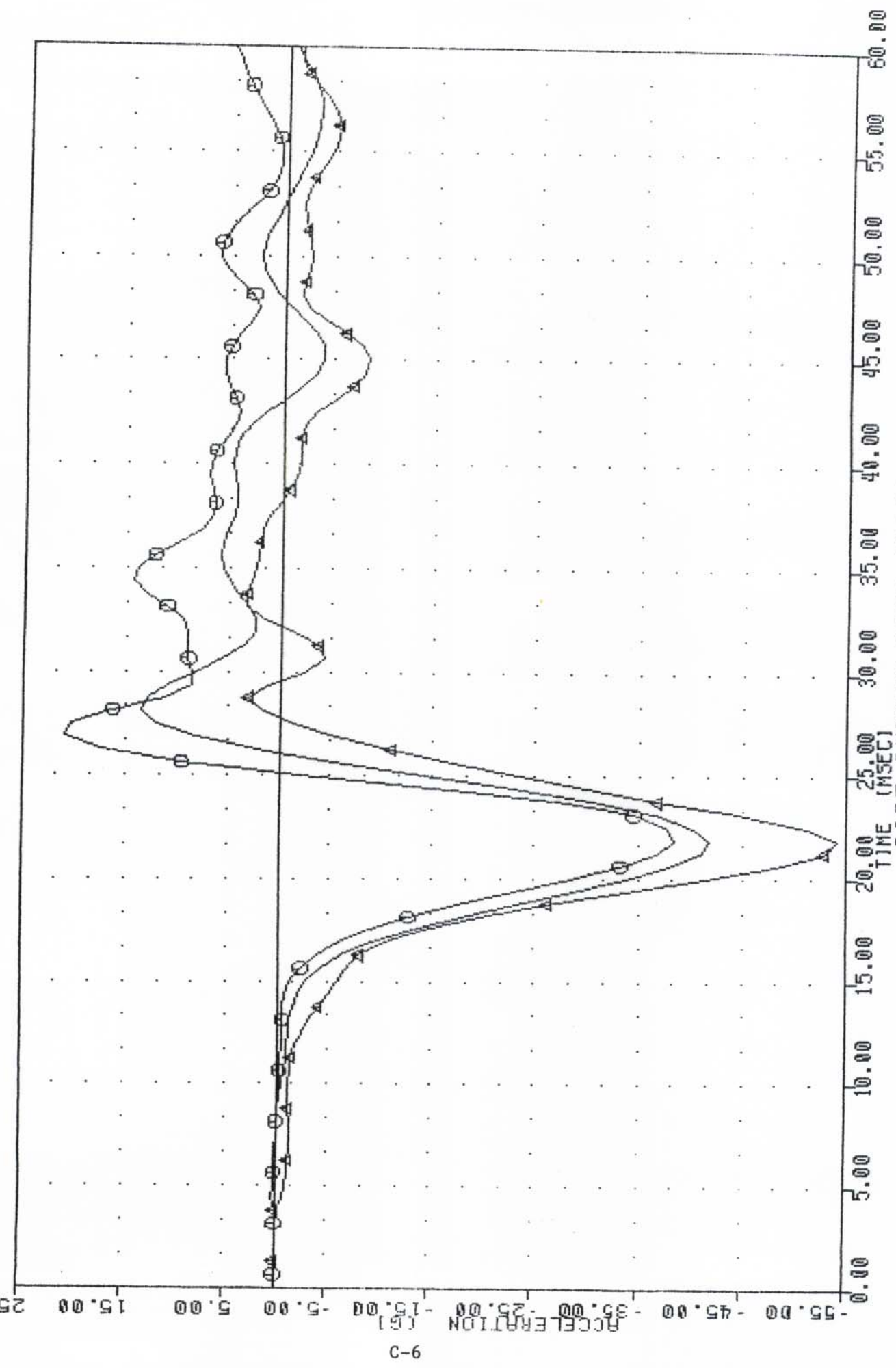


ynic 30032 21006109 136/ 189/ -50 MIN, MAX = -25.06 8 8422W PL01 DATE 27-HUG-84 08:59:53
 T12YGA FILTER = HSRI 136/ 189/ -50 MIN, MAX = -22.37 8 25.63 56.25
 MN-2SD 0 136/ 189/ -50 MIN, MAX = -25.84 8 25.63 53.75
 MN-2SD 4 136/ 189/ -50 MIN, MAX = -25.84 8 25.63 53.75



SIDE IMPACT TEST (006)
 LOWER SPINE ACCELERATION Y AXIS - A

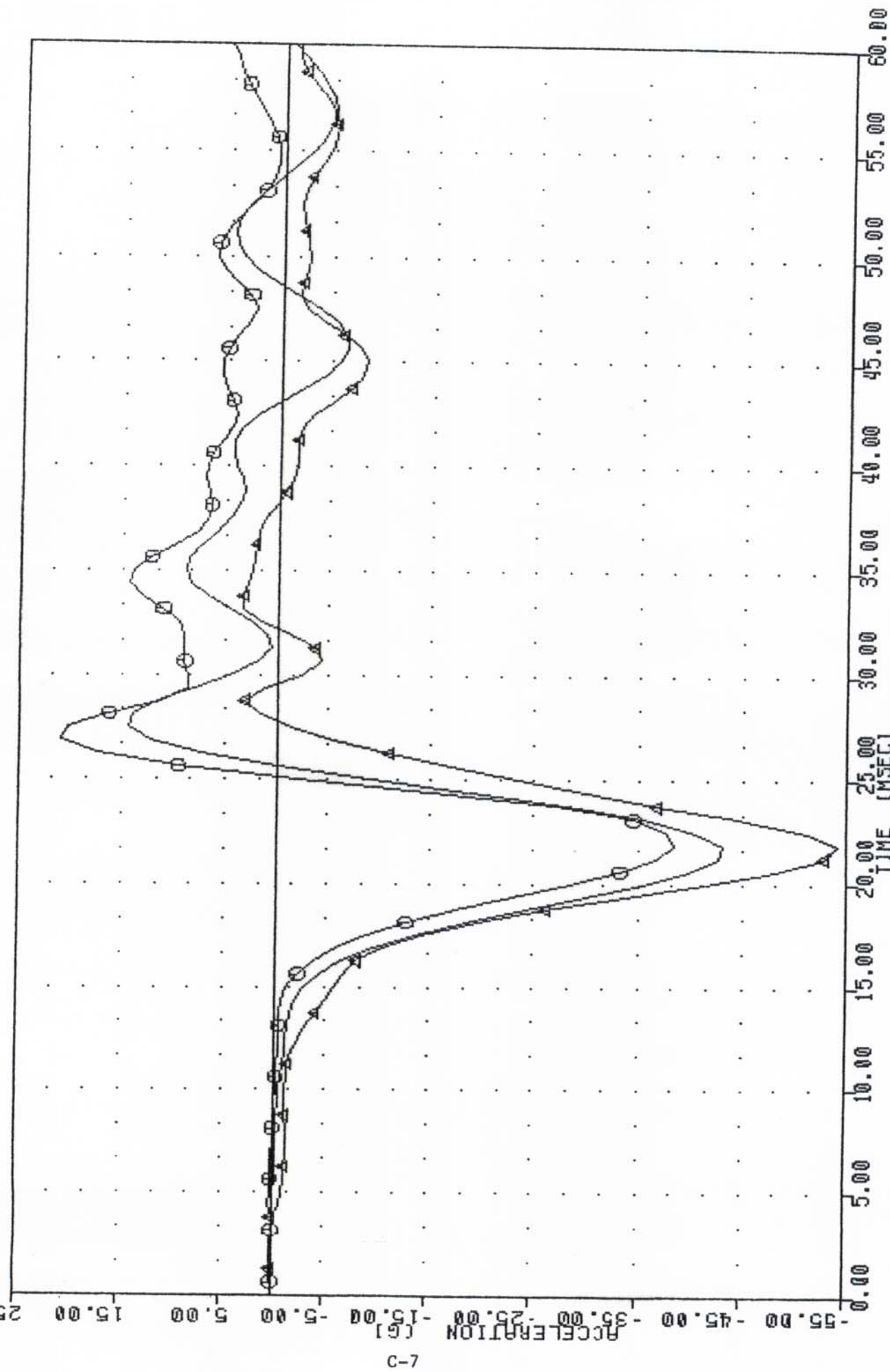
VVVV SFL02 21006103 000 THUMRX 000 B001 018 LNL109 0422W PLOT UN/E 21-AUG-84 11:08:55
 LURYG1 FILTER = HSRI 136/ 189/ -50 MIN, MAX = -41.82 21.25 13.47 27.50
 MN-2SD 0 FILTER = HSRI 136/ 189/ -50 MIN, MAX = -38.44 21.25 20.82 26.25
 MN-2SD 4 FILTER = HSRI 136/ 189/ -50 MIN, MAX = -54.08 21.25 3.31 33.13



SIDE IMPACT TEST (006)

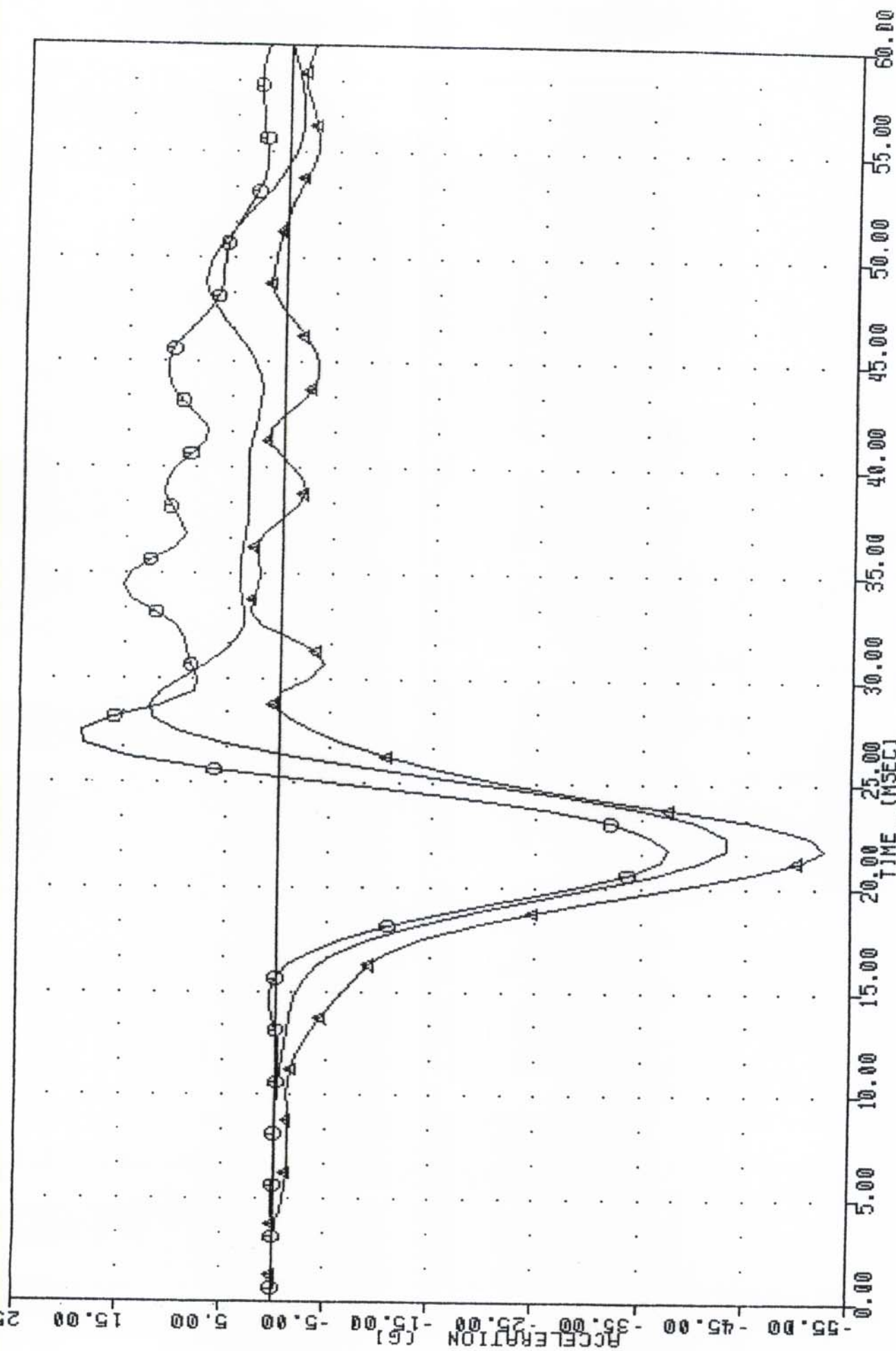
LEFT UPPER RIB ACCELERATION Y AXIS - 1

0006132
 LURYGA
 MN-2SD
 MN-2SD
 FILTER = HSRI
 FILTER = HSRI
 FILTER = HSRI
 ID 136/ 136/ 136/
 MAX 189/ 189/ 189/
 BOU 318 842W
 MIN, MAX = -43.09
 MIN, MAX = -38.44
 MIN, MAX = -54.08
 PLD DATE 27-AUG-84
 21.25
 21.25
 21.25
 09:03:44
 14.42
 20.82
 3.31
 26.87
 26.25
 33.13



SIDE IMPACT TEST (006)
 LEFT UPPER RIB ACCELERATION Y AXIS - A

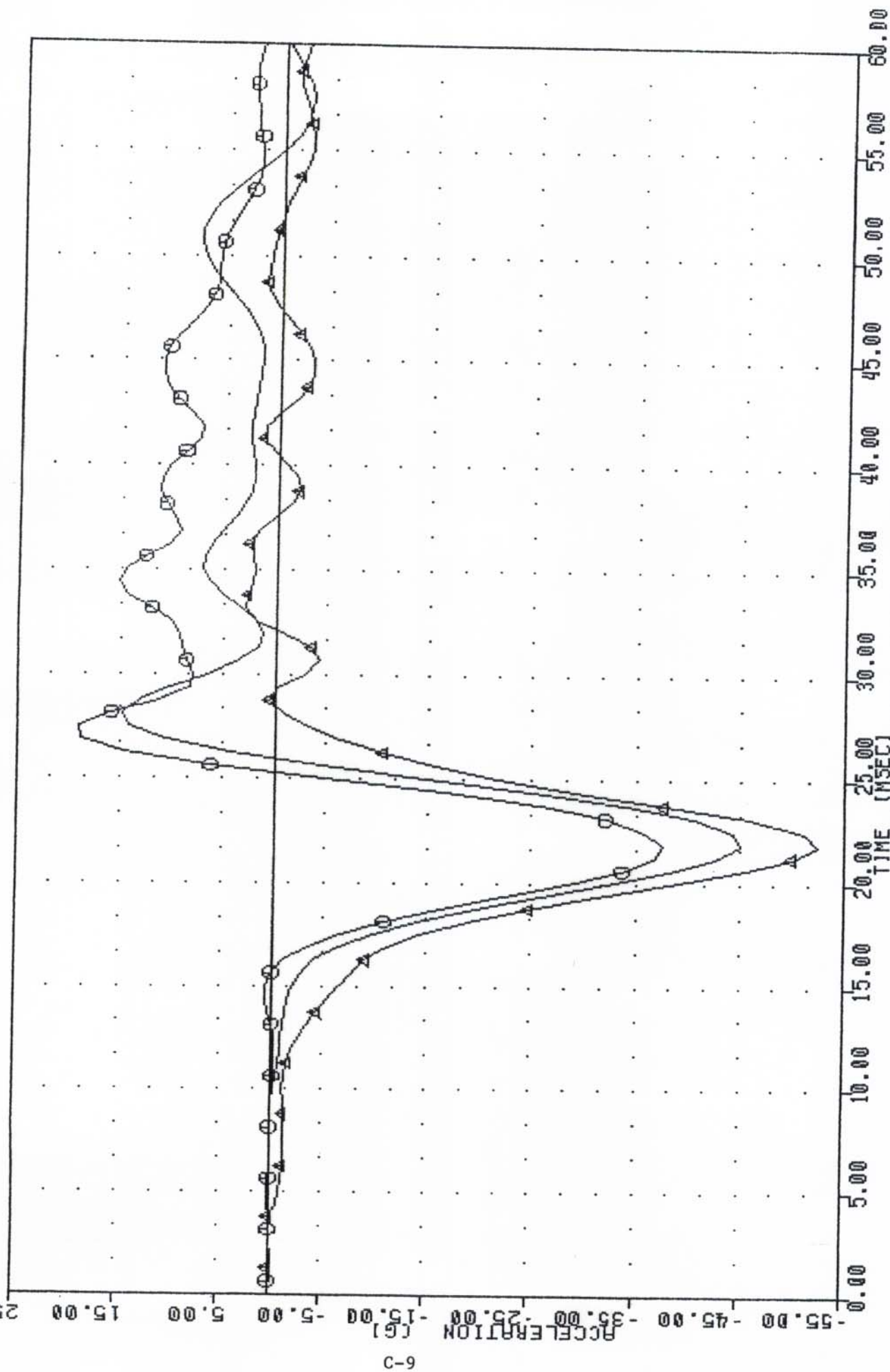
IC	32	0061	JID	uuuRAX	uuuBuu	31u	uHL10u	842zu	PLUu	UATE	27-HUG-84	09:05:22
LLRYG1	W	FILTER = HSRI	136/	189/	-50	MIN,	MAX =	-43.11	B	21.25	12.51	28.13
MN-2SD	W	FILTER = HSRI	136/	189/	-50	MIN,	MAX =	-37.66	B	21.25	19.00	26.87
MN-2SD	A	FILTER = HSRI	136/	189/	-50	MIN,	MAX =	-52.52	B	21.25	2.94	32.50



SIDE IMPACT TEST (006)

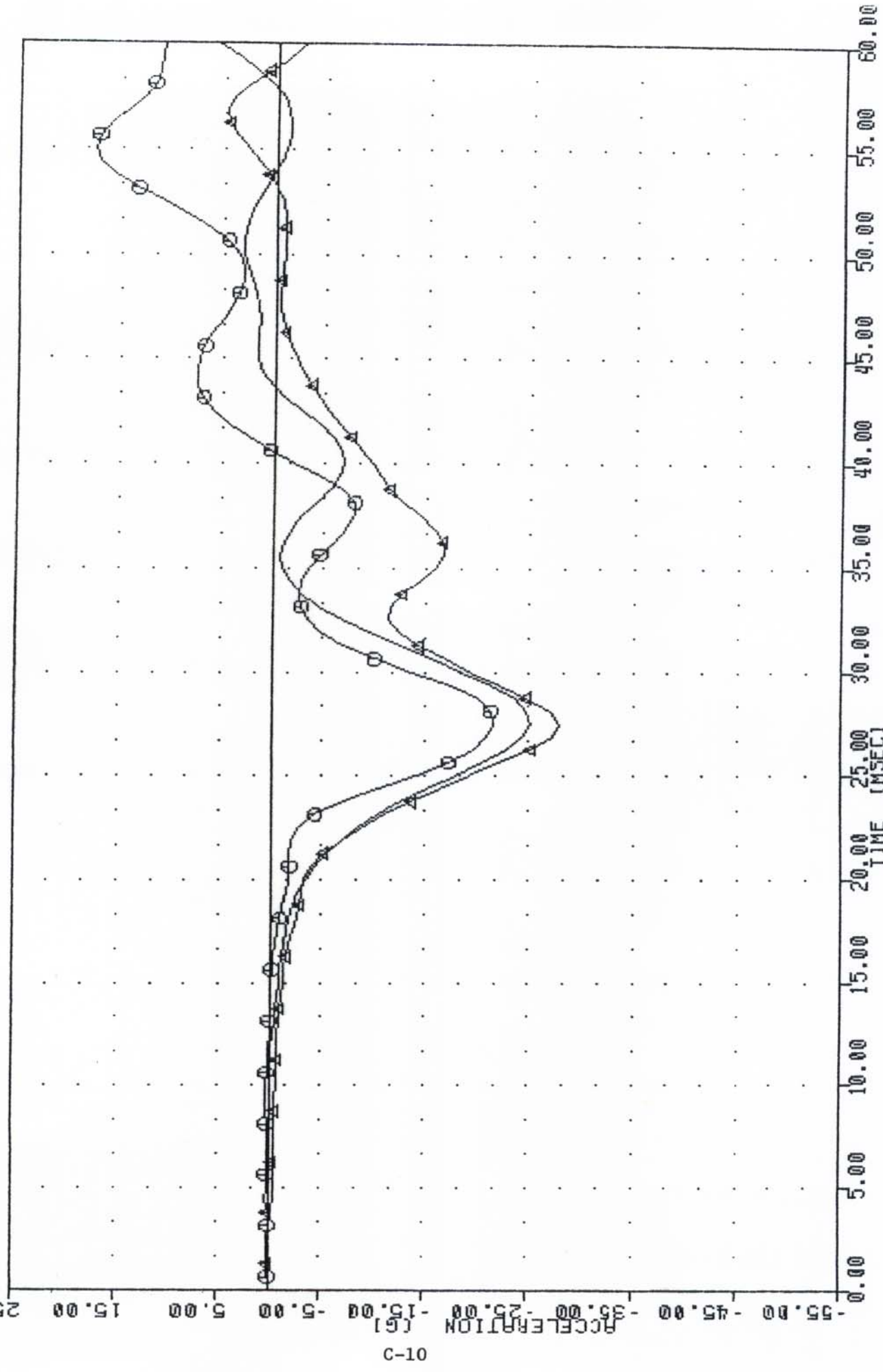
LEFT LOWER RIB ACCELERATION Y AXIS - 1

TC	PLU	DATE	PLU	DATE	PLU	DATE
LLRYGA	316	21.25	316	21.25	316	21.25
MN+2SD	842	21.25	842	21.25	842	21.25
MN-2SD	842	21.25	842	21.25	842	21.25



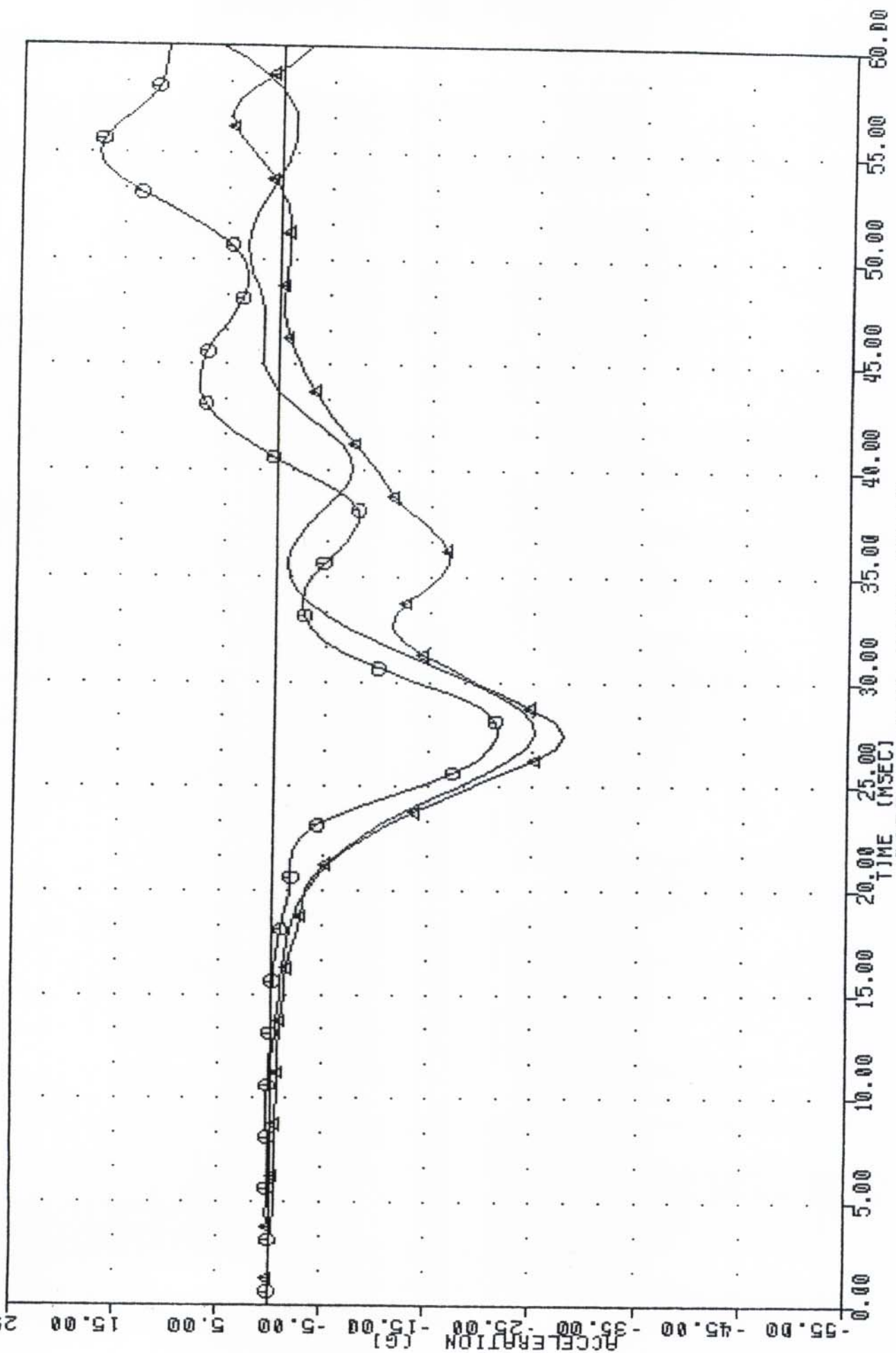
SIDE IMPACT TEST (006)
LEFT LOWER RIB ACCELERATION Y AXIS - A

WNC 5ML32
 TOIYGI
 MN-2SD 0
 MN-2SD 4
 SID 136/ 189/ 50
 HURAX UW2 BUWY 830 CHL108
 MIN, MAX =
 MIN, MAX =
 MIN, MAX =
 PL01 UATE
 8-HUG-84
 11:08:15
 8.39e
 60.00
 17.54e
 54.38
 26.87
 26.87
 4.78e
 56.25



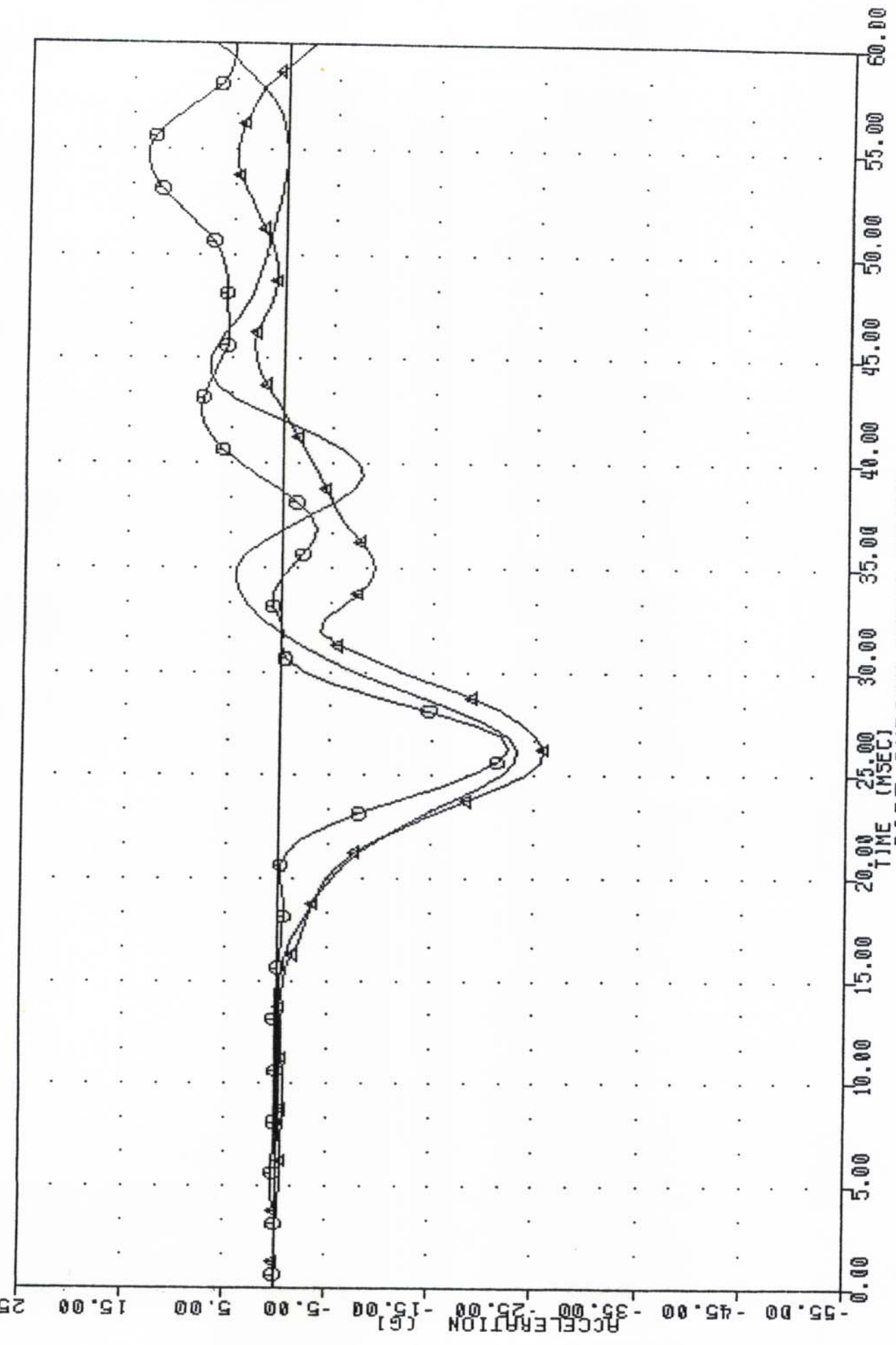
SIDE IMPACT TEST (U02)
 UPPER SPINE ACCELERATION Y AXIS - 1

vniC 5mly2 , 21U021w8 510 imuMAX uw2 BOUY 830 LHL108 84221 PLD1 URTE 8-AUG-84 11:10:29
 TO1YGA FILTER = HSRI 136/ 189/ -50 MIN, MAX = -25.08 8 26.87 8 8.32 8 60.00
 MN-2SD 0 FILTER = HSRI 136/ 189/ -50 MIN, MAX = -21.58 8 26.87 8 17.54 8 54.38
 MN-2SD 4 FILTER = HSRI 136/ 189/ -50 MIN, MAX = -27.91 8 26.87 8 4.78 8 56.25



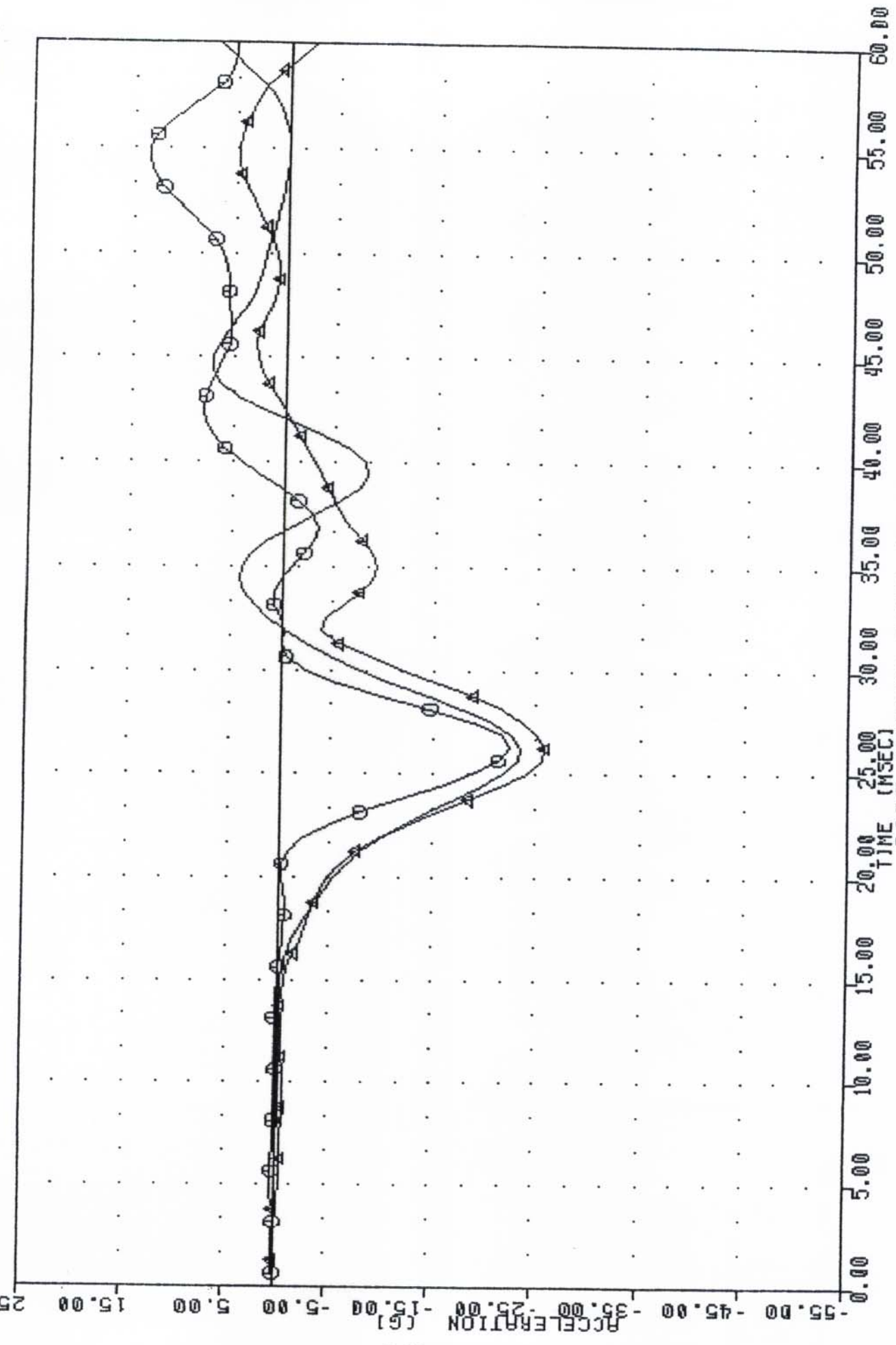
SIDE IMPACT TEST (U02)
 UPPER SPINE ACCELERATION Y AXIS - A

ynic 5nly2 , 21002100 310 136/ 189/ 830 84221 PL01 UATE 11:14:06
 T12Y61 FILTER : HSRI 136/ 189/ -50 MIN, MAX = -23.25 8.36
 MN-2SD 0 FILTER : HSRI 136/ 189/ -50 MIN, MAX = -22.37 8.36
 MN-2SD 0 FILTER : HSRI 136/ 189/ -50 MIN, MAX = -25.84 4.85



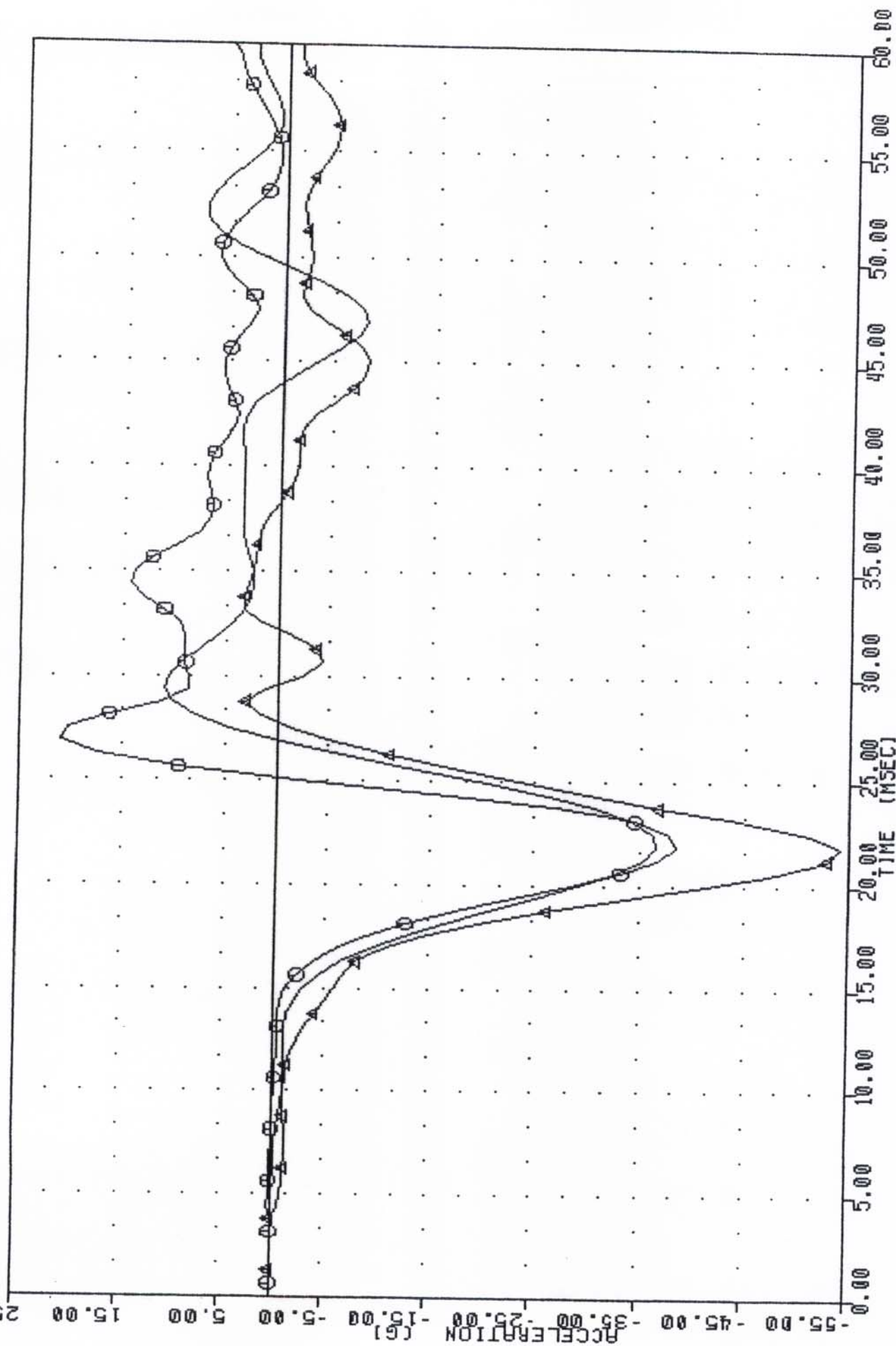
SIDE IMPACT TEST (U02)
 LOWER SPINE ACCELERATION Y AXIS - 1

PLDT DATE	8-AUG-84	11:17:02
25.63	8.32	60.00
25.63	13.54	53.75
25.63	4.85	53.75



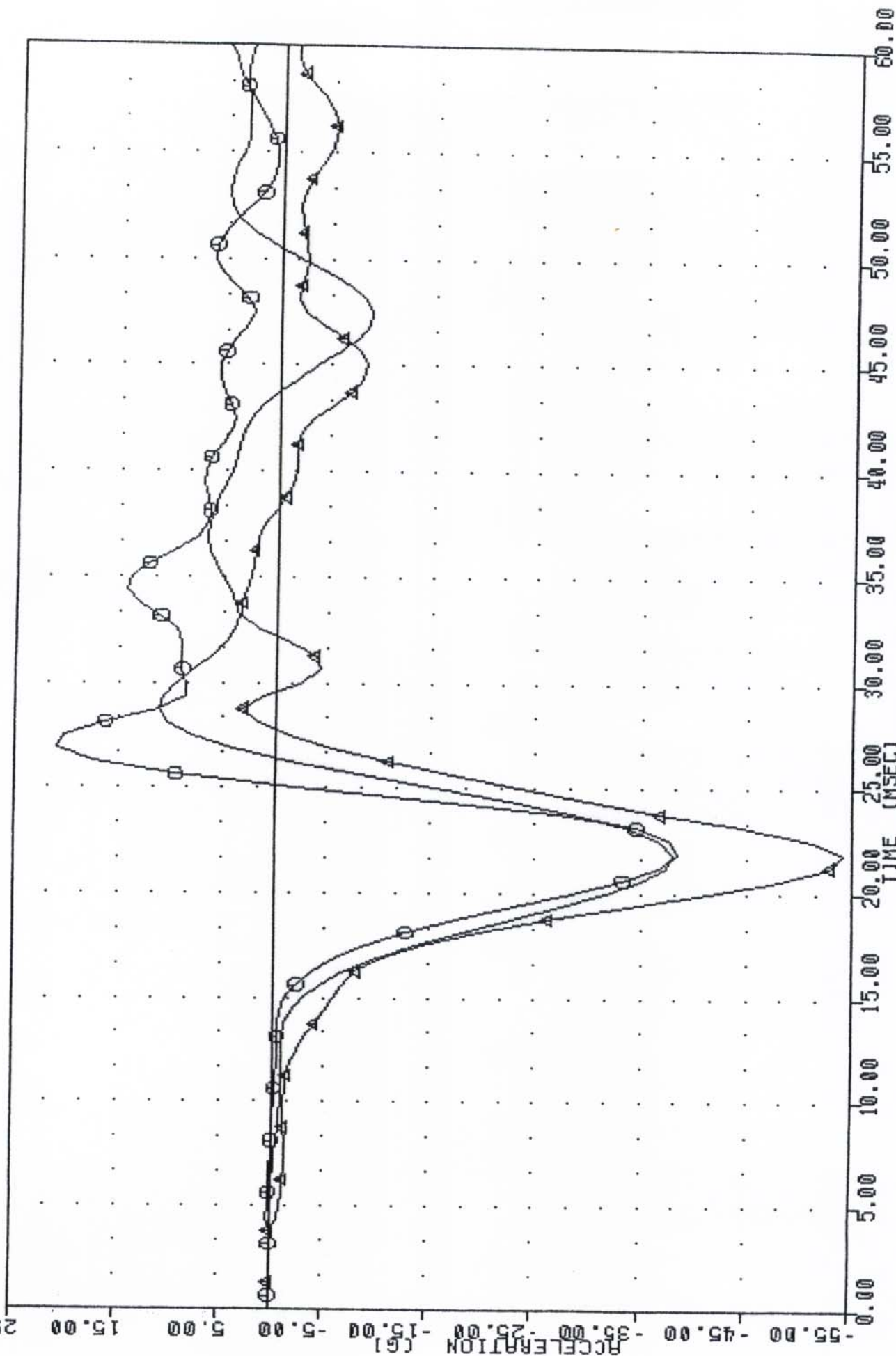
TIME (MSECT)
SIDE IMPACT TEST (U02)
LOWER SPINE ACCELERATION Y AXIS - A

VHTC SHL92 , SIU02108 SID THORAX U02 BODY 830 CAL108 84221 PLOT DATE 8-AUG-84 11:25:42
 LURYG1 FILTER = HSRI 136/ 189/ -50 MIN. MAX = -36.62 21.25 10.84 28.75
 MN-2SD 0 FILTER = HSRI 136/ 189/ -50 MIN. MAX = -38.44 21.25 20.82 26.25
 MN-2SD 4 FILTER = HSRI 136/ 189/ -50 MIN. MAX = -54.08 21.25 3.31 33.13



SIDE IMPACT TEST (U02)
 LEFT UPPER RIB ACCELERATION Y AXIS - 1

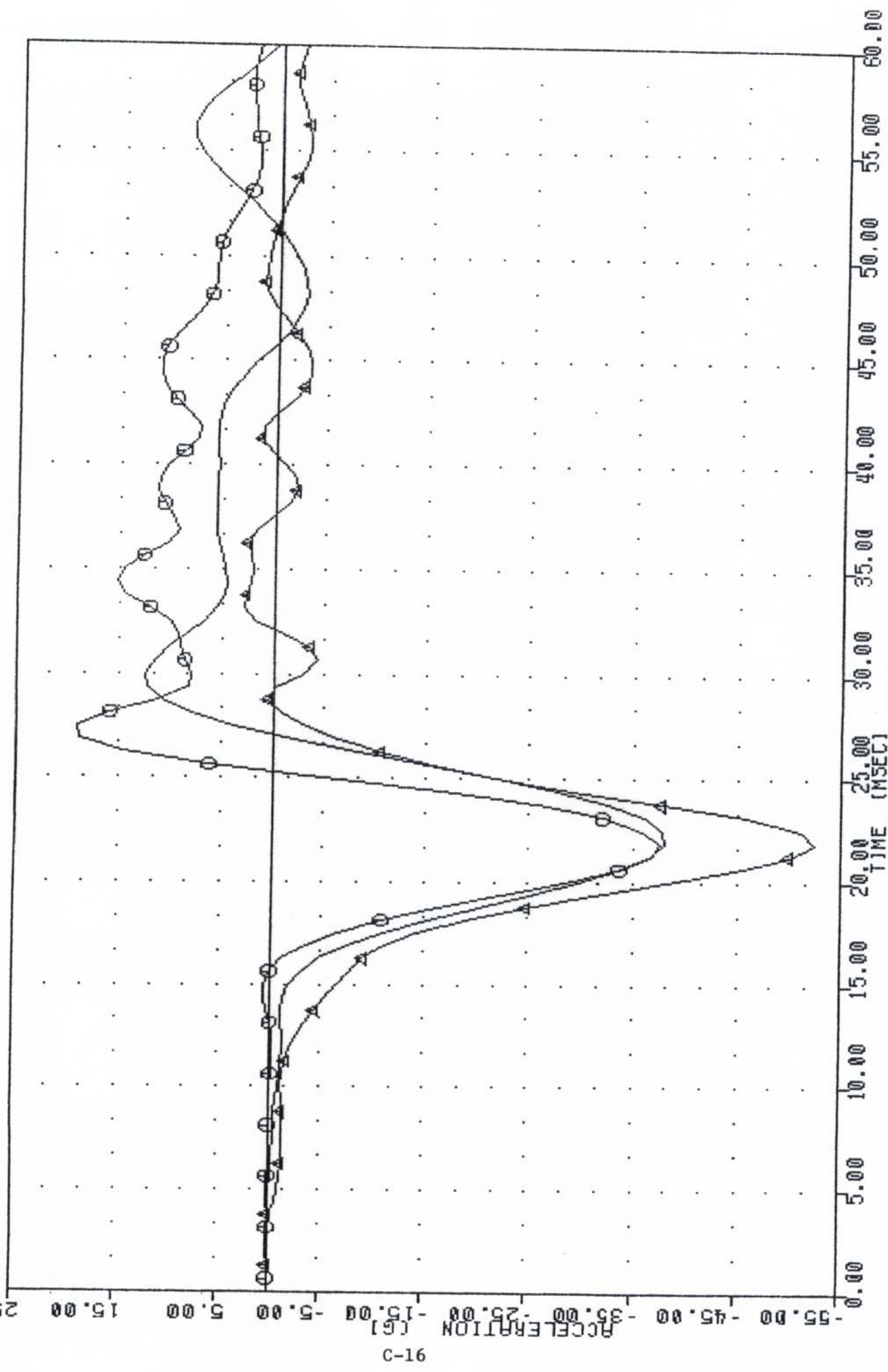
PLD1	DATE	8-AUG-84	11:25:52
84221			
MIN, MAX =	-37.97	11.19	28.13
MIN, MAX =	-38.44	20.42	26.25
MIN, MAX =	-54.08	3.31	33.13



SIDE IMPACT TEST (U02)

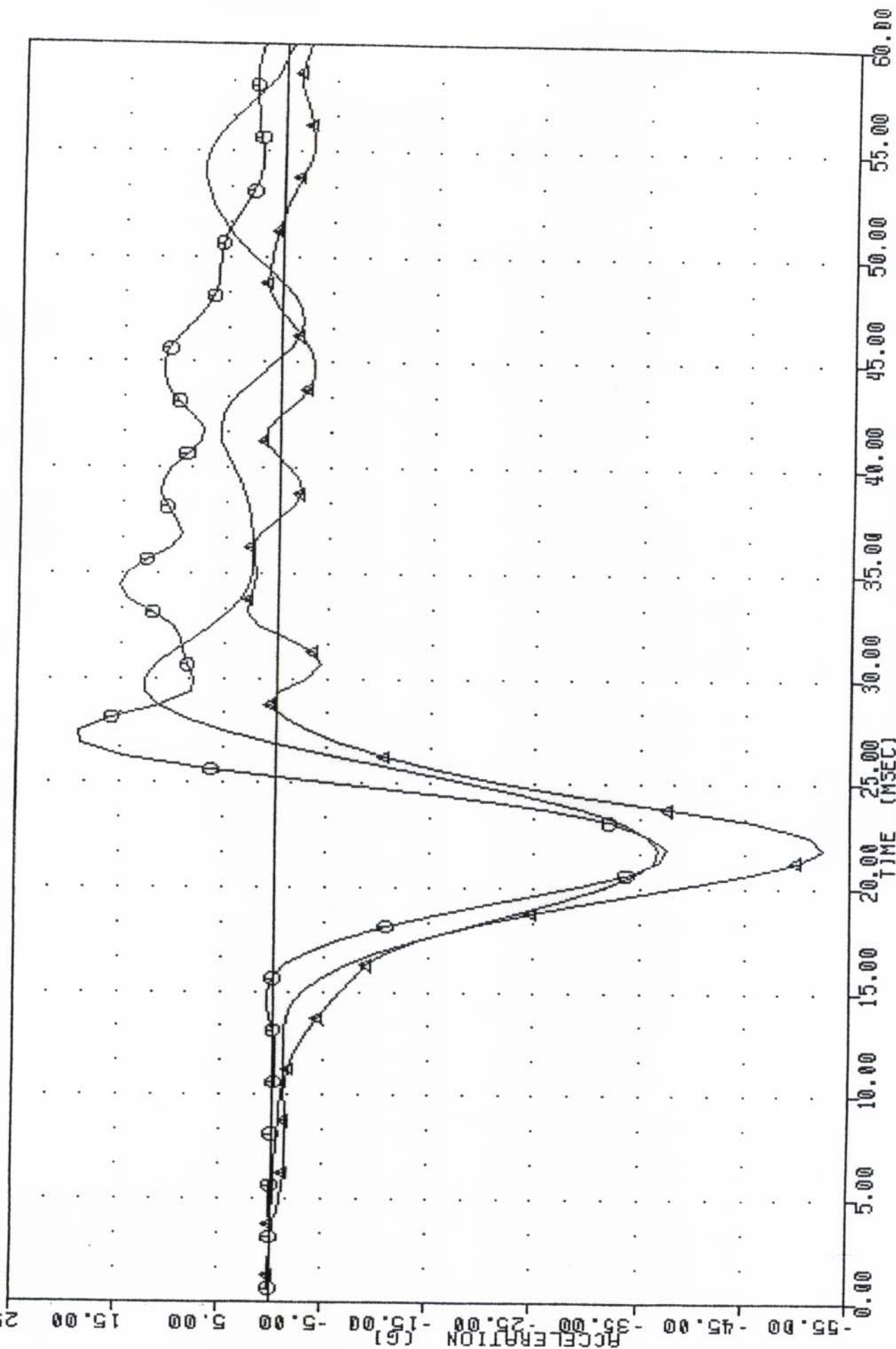
LEFT UPPER RIB ACCELERATION Y AXIS - A

VMC SML32, 21U021W8 310 TMRAX UW2 BOUY 830 UHL108 84221 PLOT DATE 8-AUG-84 11:19:57
 LLYG1 FILTER = HSRI 136/ 189/ -50 MIN, MAX = -38.03 21.25 29.38
 MN-2SD 0 FILTER = HSRI 136/ 189/ -50 MIN, MAX = -37.66 21.25 26.87
 MN-2SD A FILTER = HSRI 136/ 189/ -50 MIN, MAX = -52.52 21.25 32.50



SIDE IMPACT TEST (U02)
 LEFT LOWER RIB ACCELERATION Y AXIS - 1

MIC SHLY2, S1U02108 SID IMUMAX UW2 BOUY 830 CHL108 84221 PLOT DATE 8-AUG-84 11:23:12
 LLYGA FILTER = HSRI 136/ 189/ -50 MIN. MAX = -36.73 21.25 12.60 28.75
 MN-2SD 0 FILTER = HSRI 136/ 189/ -50 MIN. MAX = -37.66 21.25 19.00 26.87
 MN-2SD A FILTER = HSRI 136/ 189/ -50 MIN. MAX = -52.52 21.25 2.94 32.50



SIDE IMPACT TEST (U02)

LEFT LOWER RIB ACCELERATION Y AXIS - A

APPENDIX D
CHILD DUMMY REPORT

PURPOSE

The purpose of this test was to gather further data about the retention of child seats when the vehicle seat belt holding the child seat enters the seat belt buckle at 90° instead of the intended 180° . Previous data was gathered using a Hyge Sled to simulate a frontal crash. This test impacted at 45° , simulating an impact at that angle.

INTRODUCTION

A Century child restraint seat, Model 4200, was used to hold a 3 year old child dummy in the right rear passenger position of a 1981 Volkswagen Rabbit 2-door hatchback. The belt used to secure the child seat to the vehicle seat, #R157-280.0, was taken from the center occupant position of a 1980 Ford LTD.

The test vehicle was towed into a fixed, rigid pole on August 3, 1984 at a velocity of 24.9 mph with the driver's side leading at a 45° angle. The impact point was 6.5 inches forward of the vehicle wheelbase centerline. This test was conducted to assess occupant safety and seat belt reliability under the previously stated conditions.

DUMMY KINEMATIC SUMMARY

CHILD

During impact, the child seat rotated forward and to the left. As the restraint seat returned to contact the seat back, the child's legs flew upward. The child seat then rotated toward the right. Final position showed the child restraint seat resting against the right inner quarter panel.

CHILD DUMMY DATA SUMMARY

	POSITIVE DIRECTION		NEGATIVE DIRECTION	
	MAX (g)	TIME (msec)	MAX (g)	TIME (msec)
HEAD ACCELERATION				
LONGITUDINAL	1.98	44.25	60.28	136.75
LATERAL	13.30	110.25	9.29	142.00
VERTICAL	2.52	60.38	38.07	136.38
RESULTANT		66.12 @ 136.75		
HIC		171.16 from 105.38 to 159.50		
CHEST ACCELERATION				
LONGITUDINAL	2.29	180.63	15.16	147.88
LATERAL	20.37	109.00	2.30	212.75
RESULTANT		21.47 @ 109.00		
DELTA V (MPH)		24.0 @ 179.75		

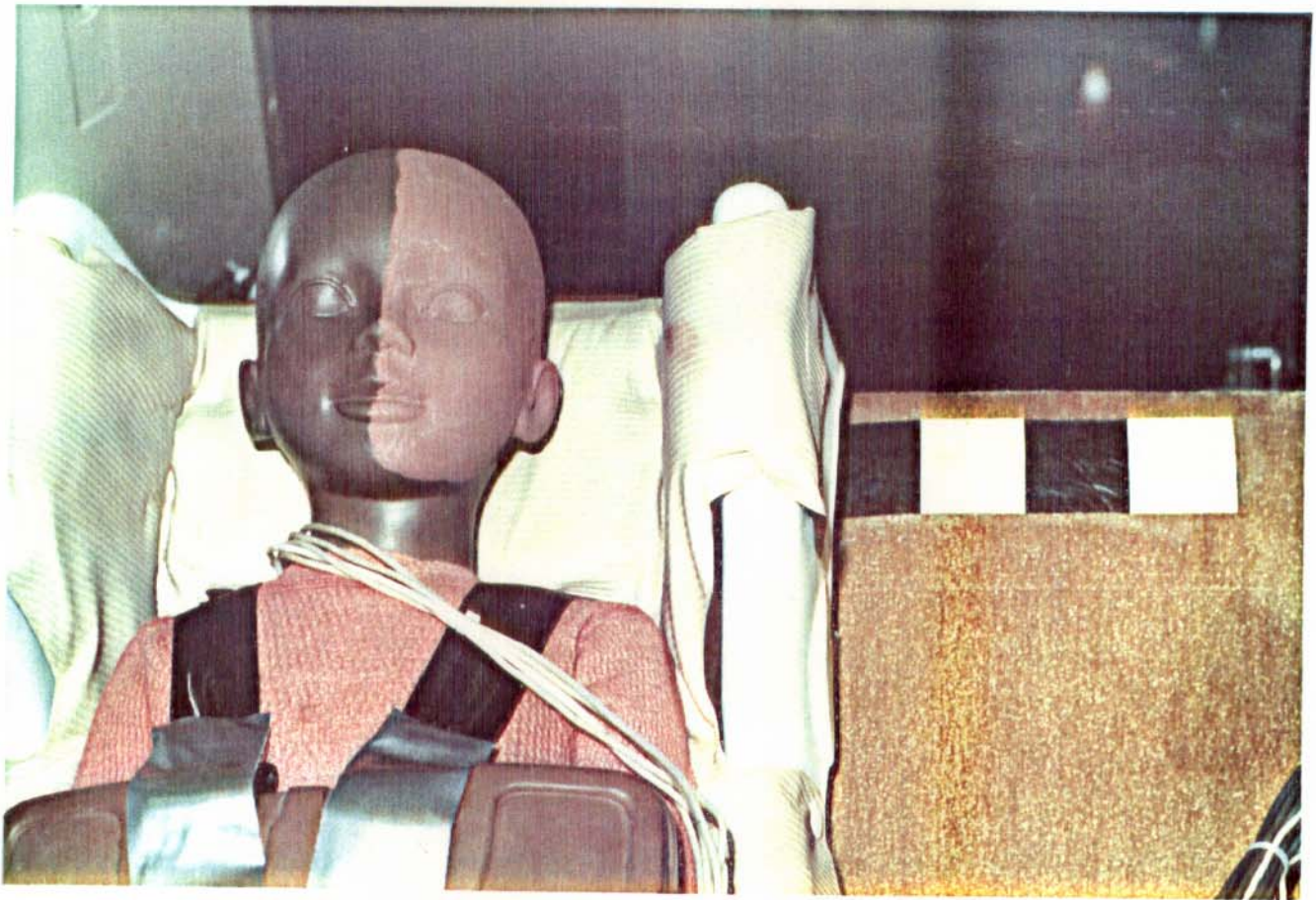


Figure D-1. PRE-TEST CHILD DUMMY

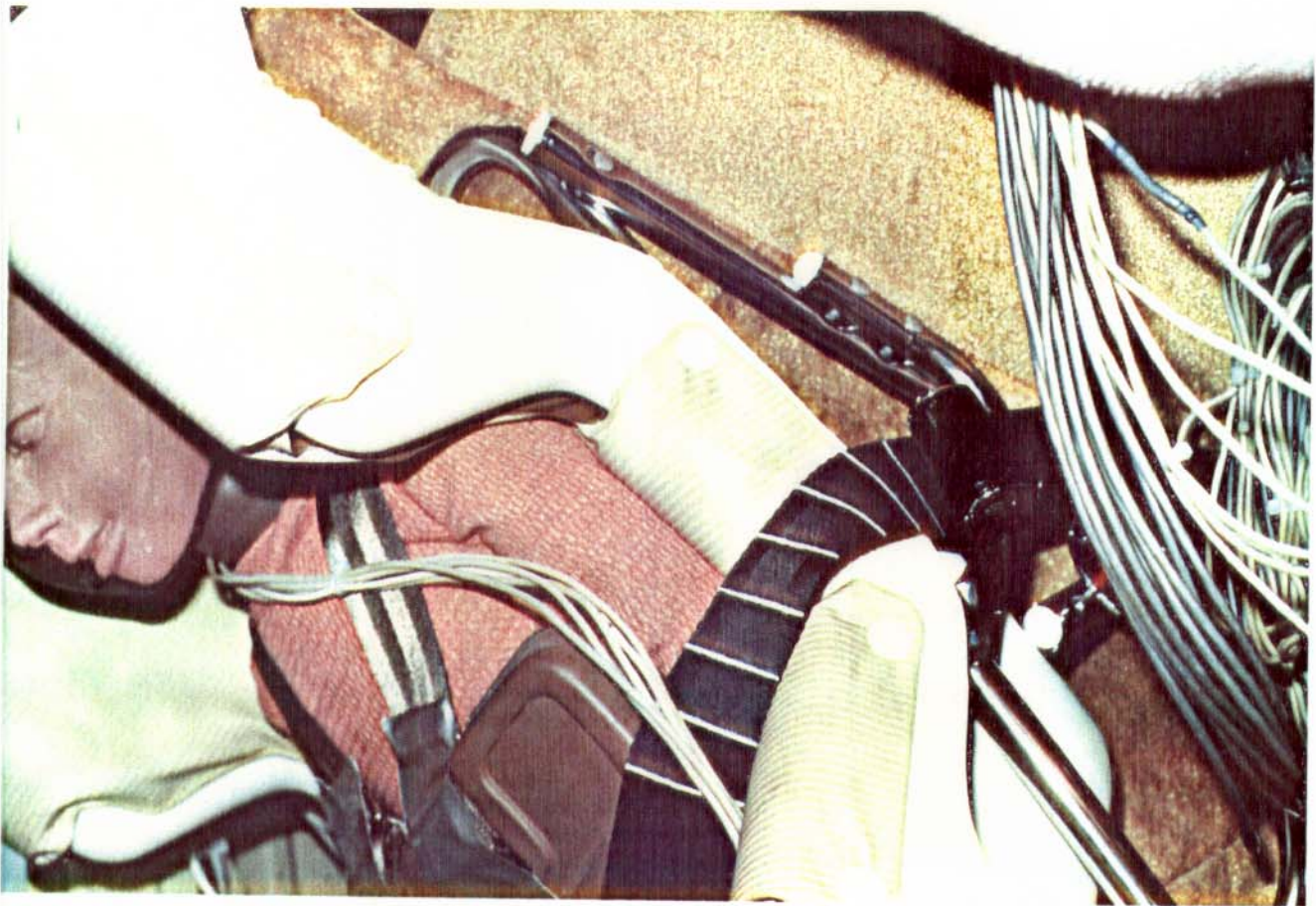


Figure D-2. PRE-TEST RESTRAINT BELT - VIEW 1

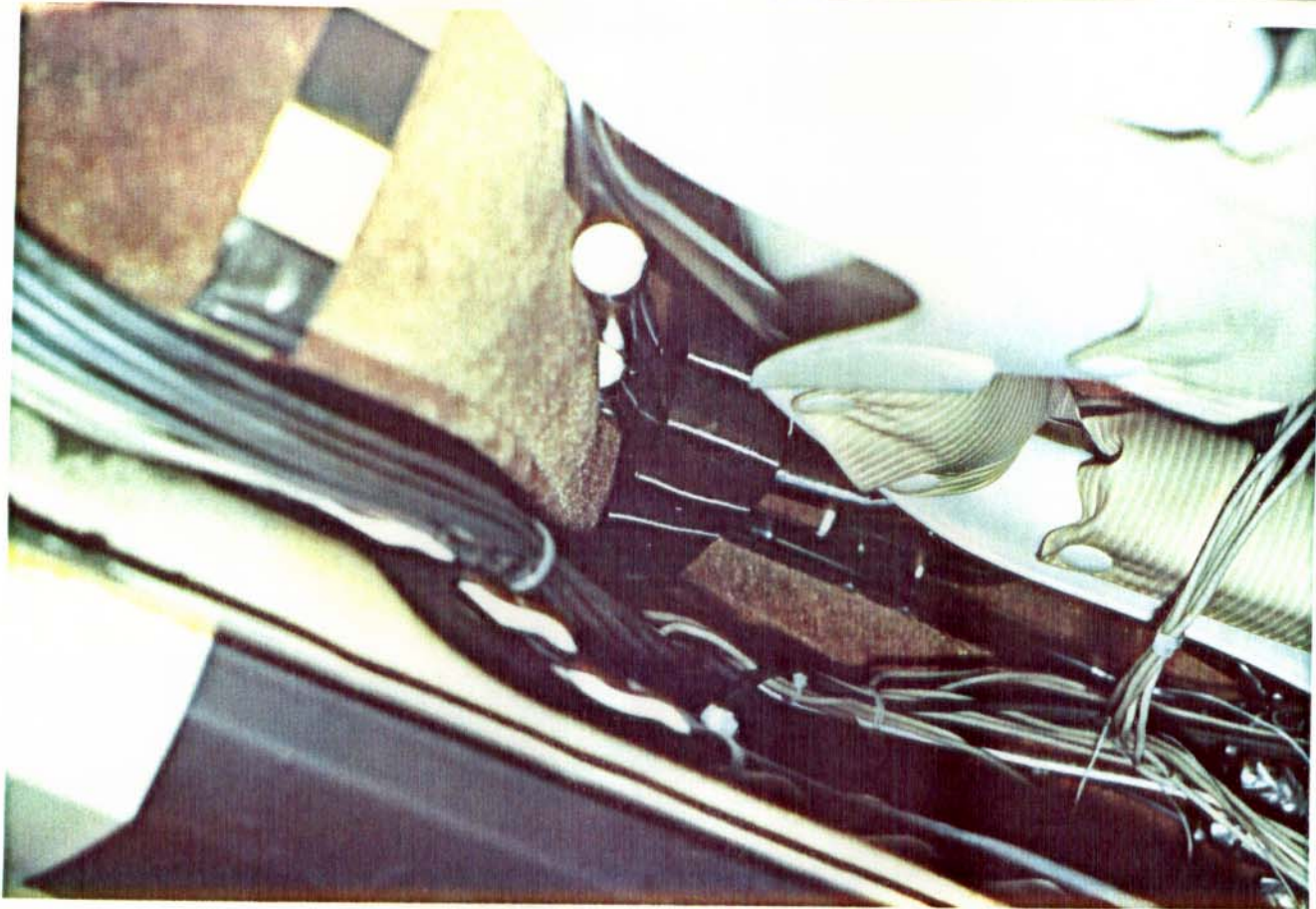


Figure D-3. PRE-TEST RESTRAINT BELT - VIEW 2



Figure D-4. POST-TEST CHILD DUMMY



Figure D-5. POST-TEST RESTRAINT BELT - VIEW 1

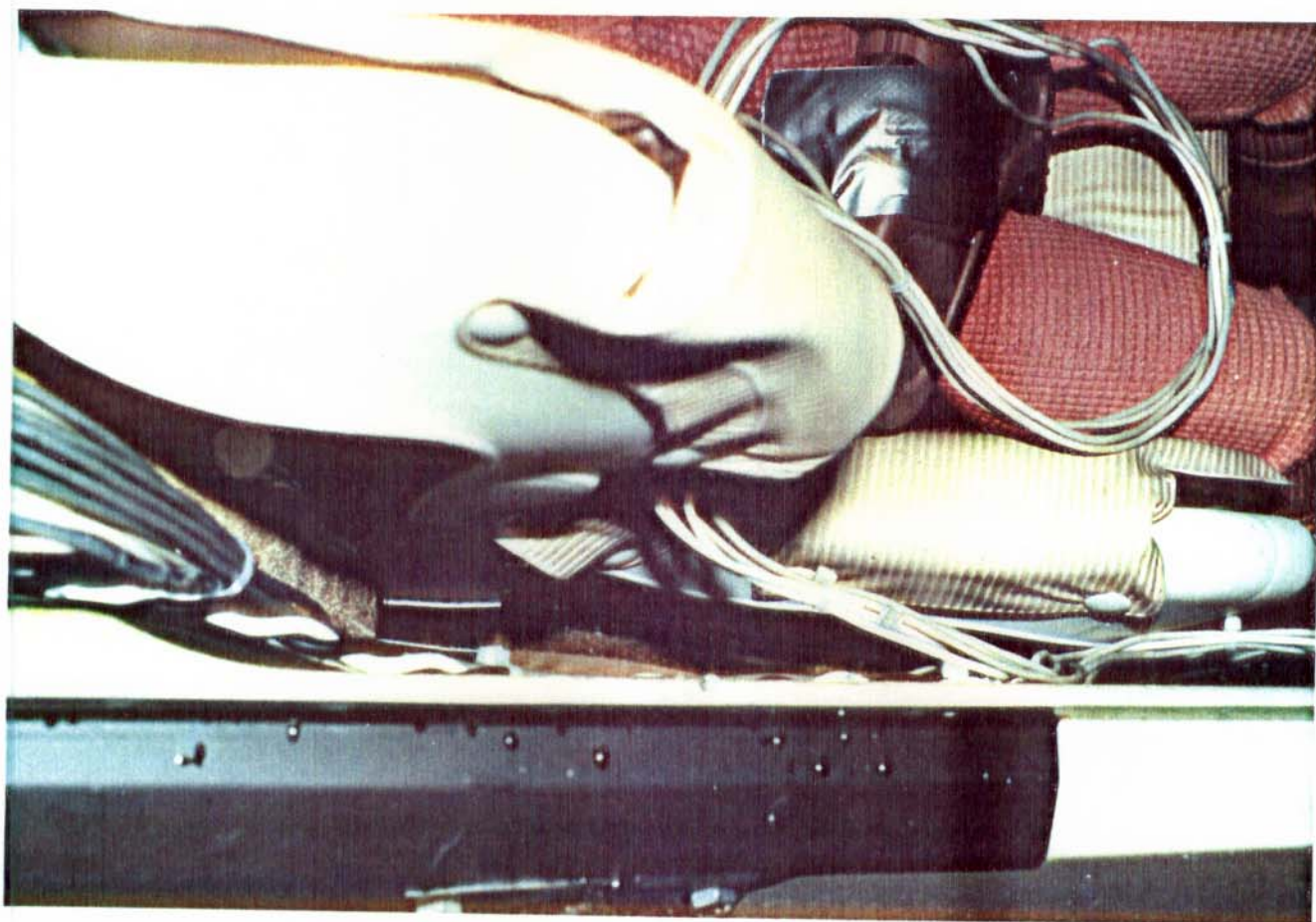


Figure D-6. POST-TEST RESTRAINT BELT - VIEW 2

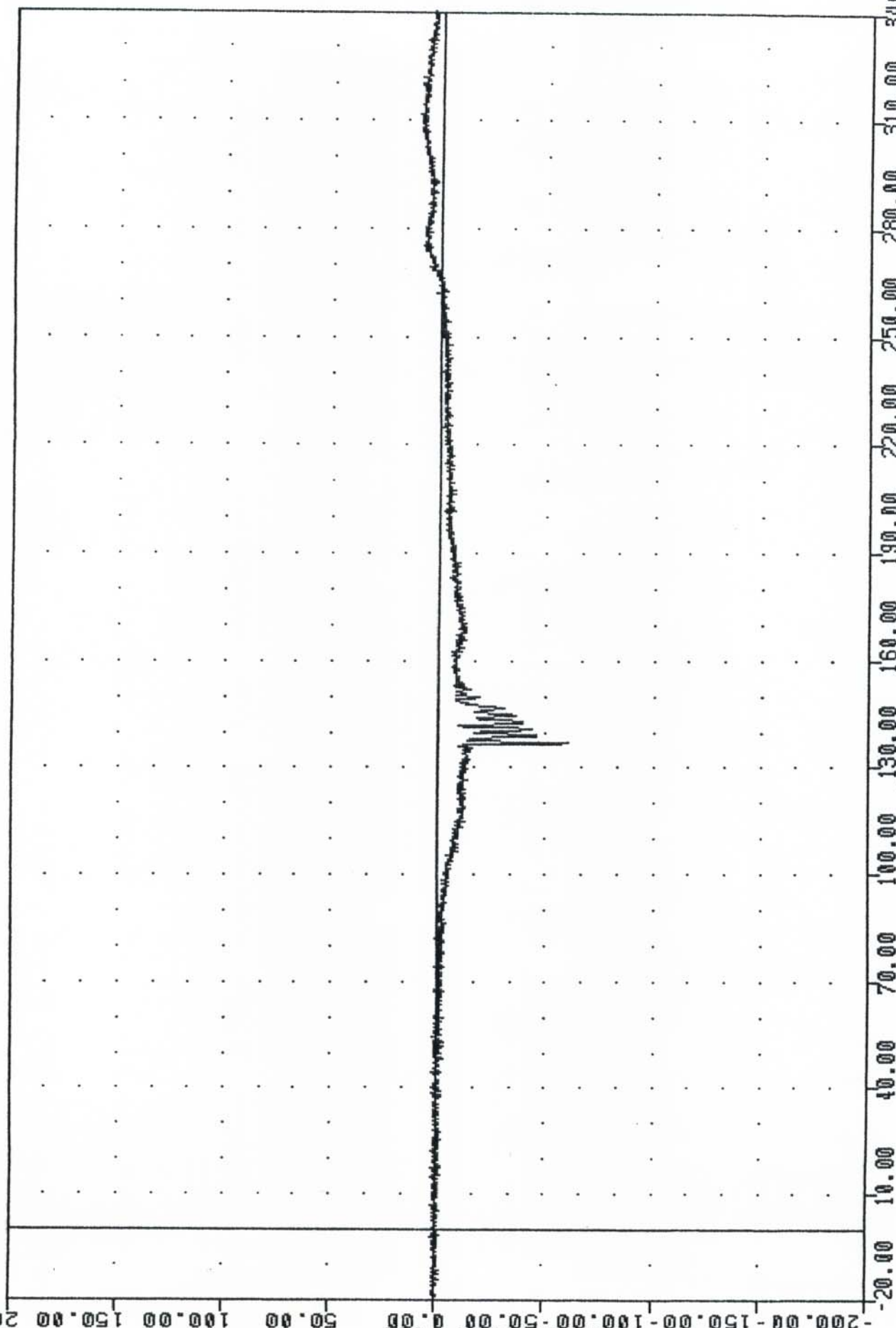
RC 84w0w3
SIDE AGGRESSIVE ATTRIBUTES
84216000000
HE0XG5

LOT UNIE 23-AUG-84 12:40.36

FILTER = ALPF 1650/ 5217/ -40

MIN, MAX VALUES = -60.280 136.75, 10.60 311.75

D-8
ACCELERATION (G)



45 DEGREE VOLKSWAGEN RABBIT INTO FIXED POLE
CHILD HEAD ACCELERATION X AXIS

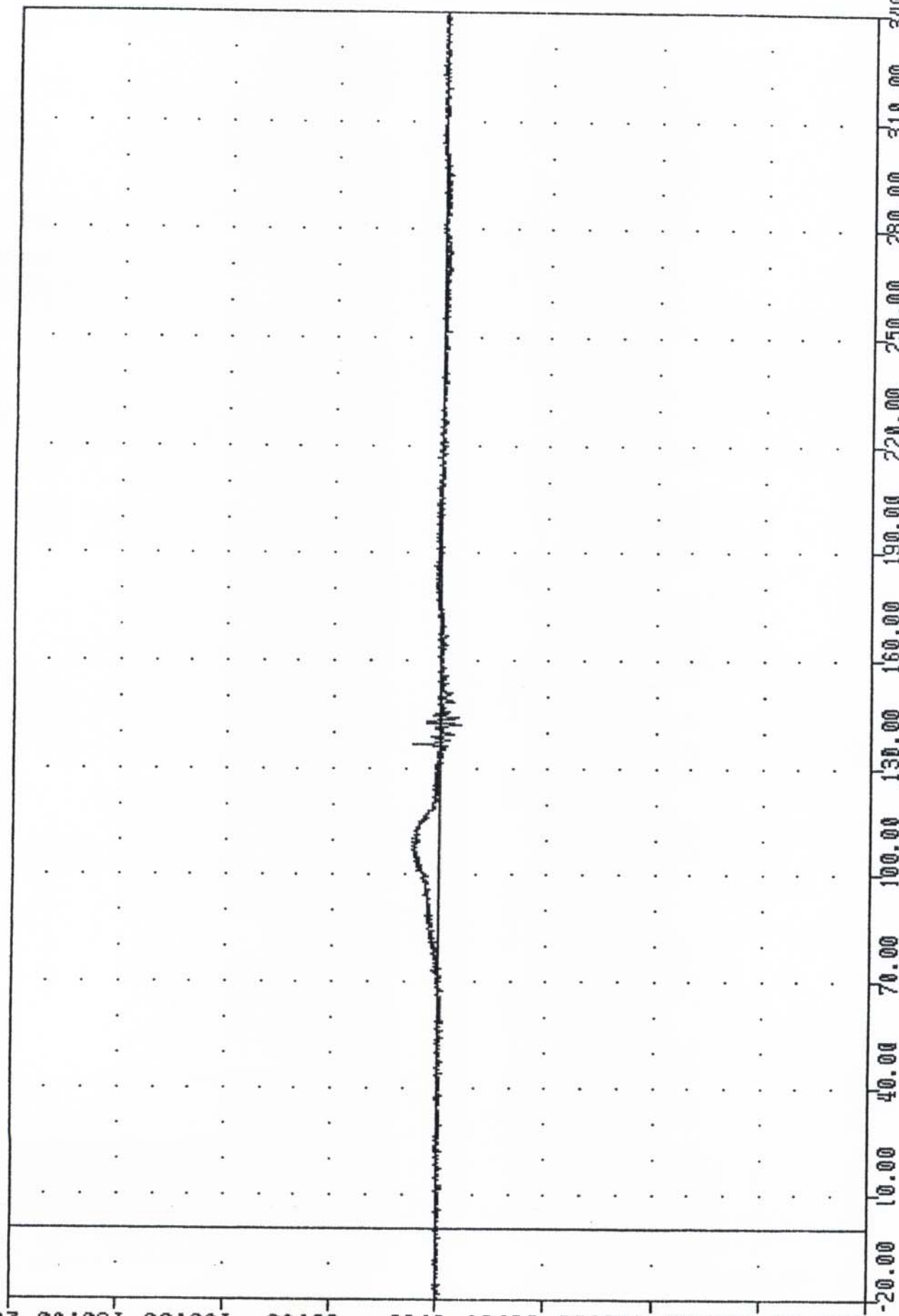
RC 840003
 SIDE AGGRESSIVE ATTRIBUTES
 84216000000
 HEDY65

LOT UNIE 23-AUG-84 12:40.36

FILTER = ALPF 1650/ 5217/ -40

MIN, MAX VALUES = -9.29e 142.00, 13.30 e 110.25

D-9
 ACCELERATION (G)
 200.00
 150.00
 100.00
 50.00
 0.00
 -50.00
 -100.00
 -150.00
 -200.00



45 DEGREE VOLKSWAGEN RABBIT INTO FIXED POLE
 CHILD HEAD ACCELERATION Y AXIS

PLU1 DATE 20 AUG 04 12:48:30

040800
SIDE AGGRESSIVE ATTRIBUTES

84216000000

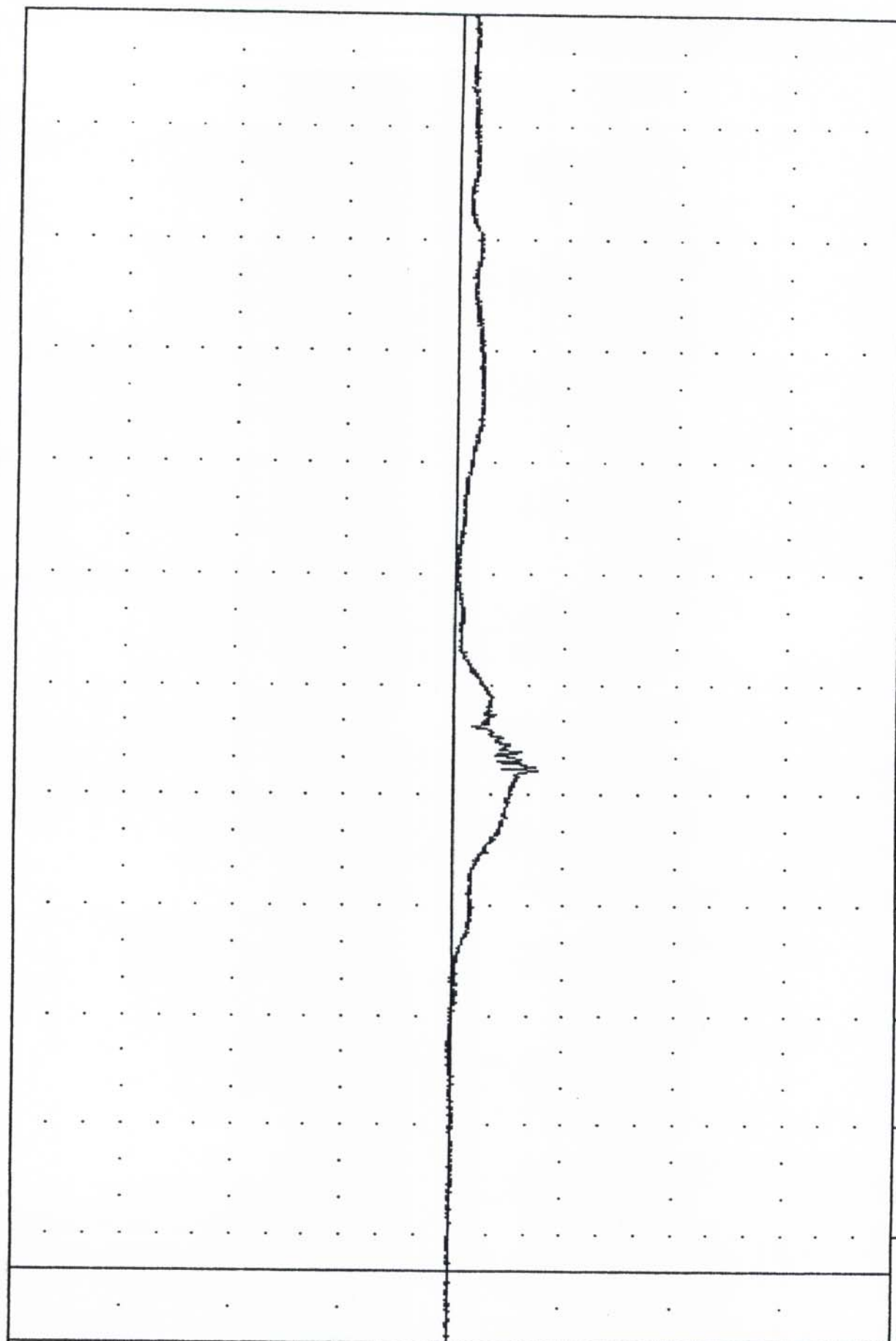
HEADG5

FILTER = ALPF 1650/ 5217/ -40

MIN, MAX VALUES = -38.078 136.38, 2.52 e 60.38

ACCELERATION (G)

D-10



45 DEGREE VOLKSWAGEN RABBIT INTO FIXED POLE
CHILD HEAD ACCELERATION Z AXIS

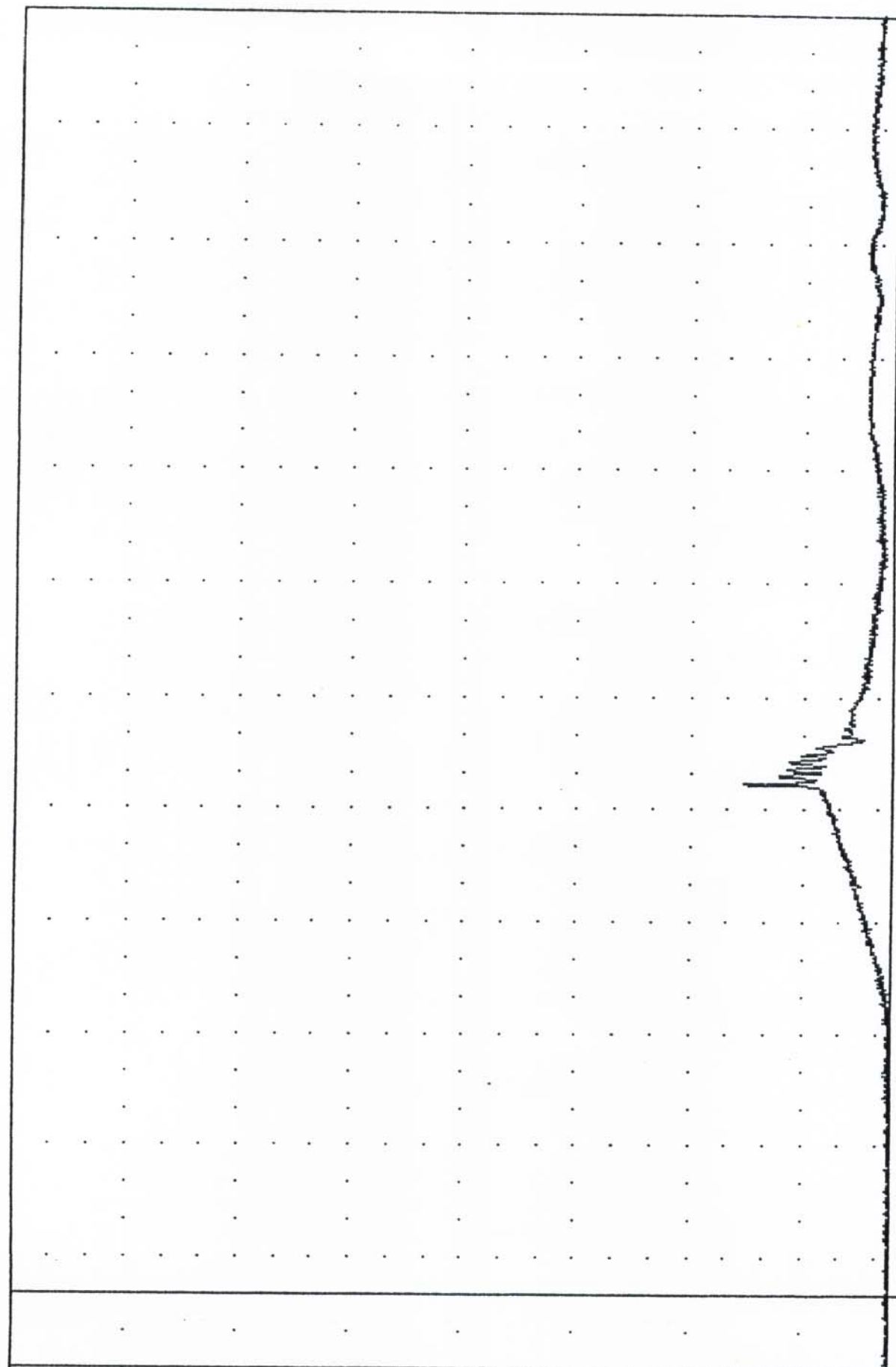
040800
SIDE AGGRESSIVE ATTRIBUTES
84216000000
HEDRG5

FLU1 DATE 23-AUG-04 12:48:30

FILTER = ALPF 1650/ 5217/ -40

MIN, MAX VALUES = 0.120 71.75, 66.12 136.75

ACCELERATION (G)



D-11

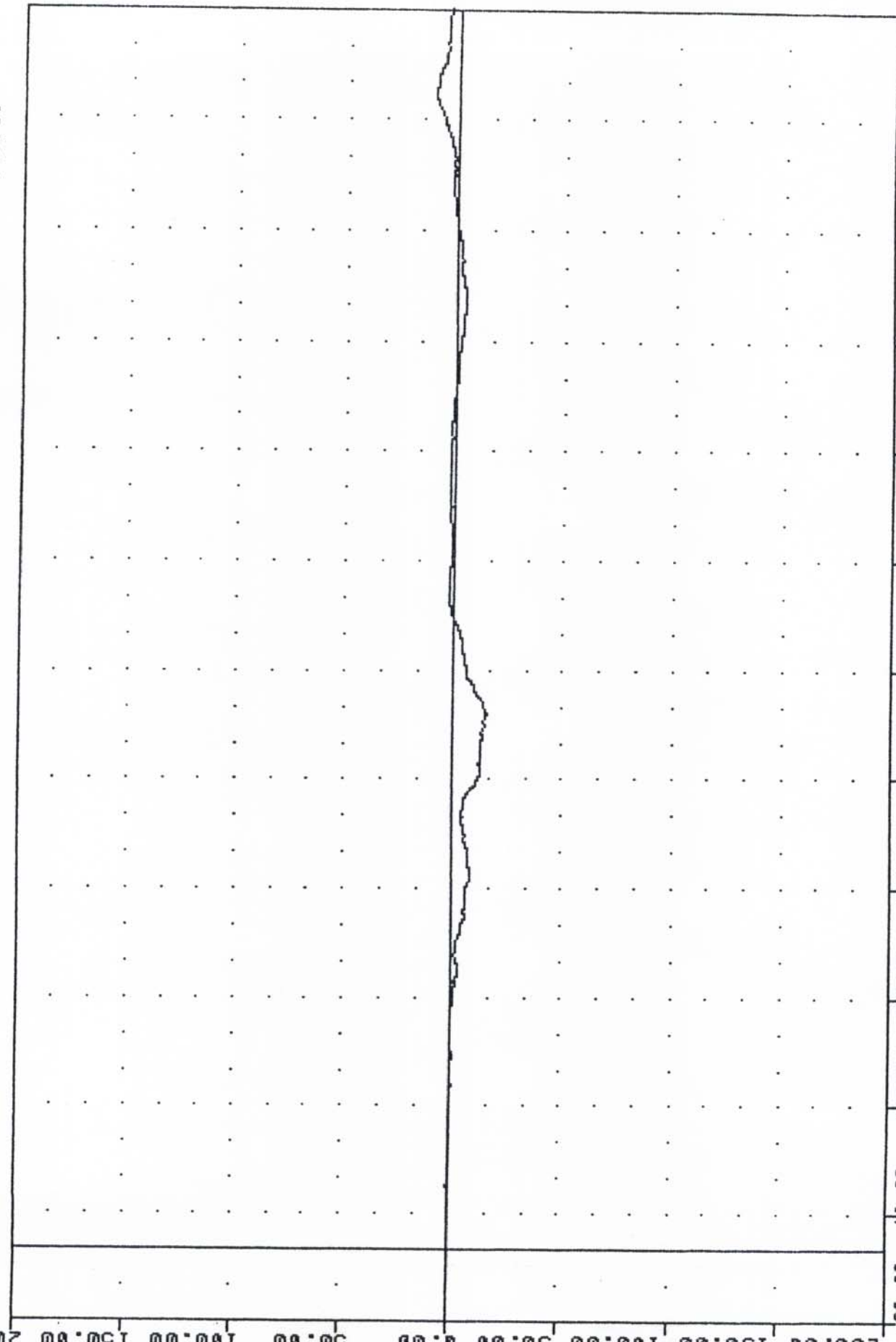
45 DEGREE VOLKSWAGEN RABBIT INTO FIXED POLE
CHILD HEAD RESULTANT

THE , 840803
SIDE AGGRESSIVE ATTRIBUTES
84216000000
CSTXG5

PLU1 DATE 25-HUG-84 13:08:03

FILTER = BLPF 300/ 949/ -40
MIN, MAX VALUES = -15.168 147.88, 11.07 e 317.13

ACCELERATION [G]



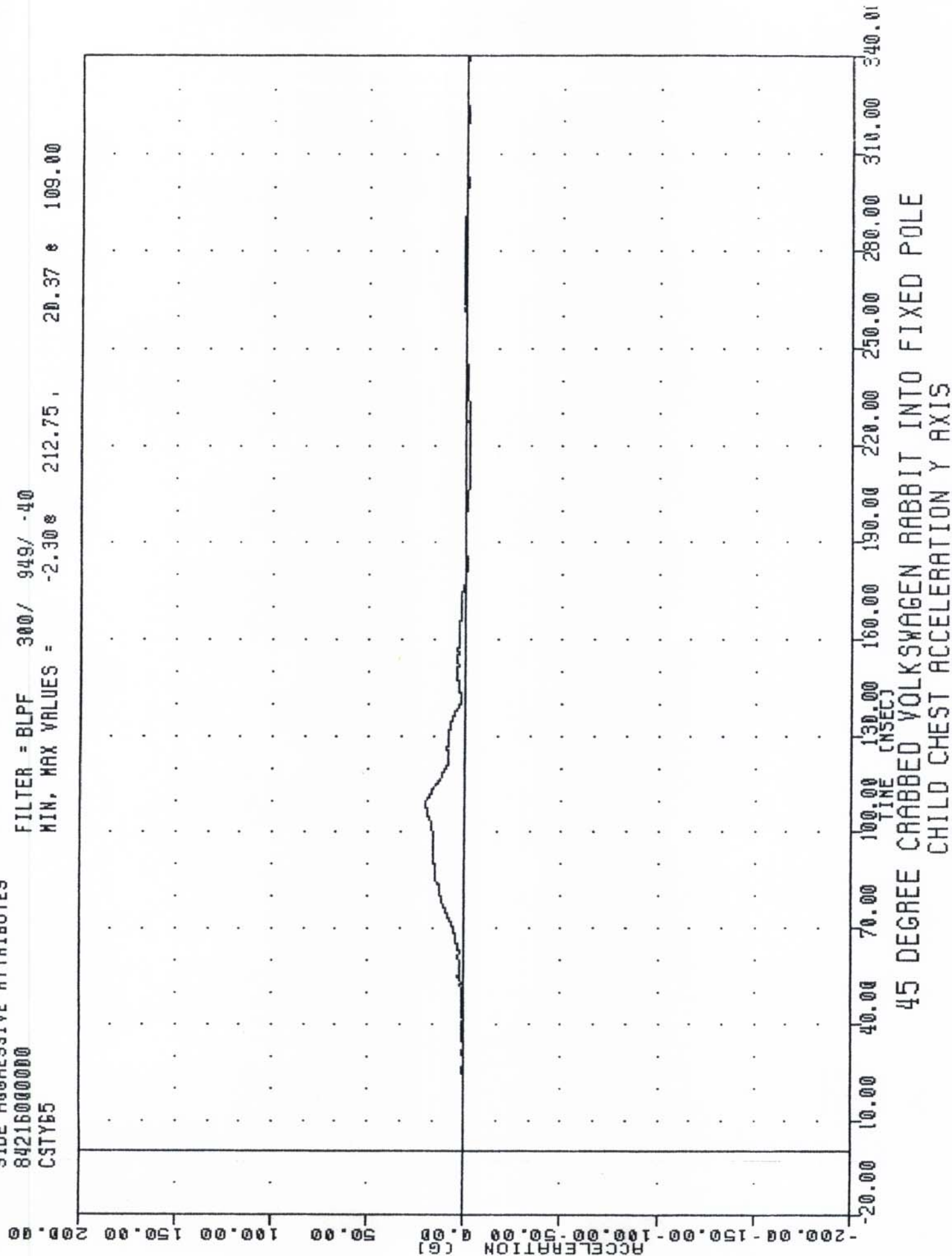
-20.00 10.00 40.00 70.00 100.00 130.00 160.00 190.00 220.00 250.00 280.00 310.00 340.00

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
CHILD CHEST ACCELERATION X AXIS

TITLE: 04J805
 SIDE AGGRESSIVE ATTRIBUTES
 84216000000
 CSTY65

PLU: DATE 23-nov-84 15:03:05

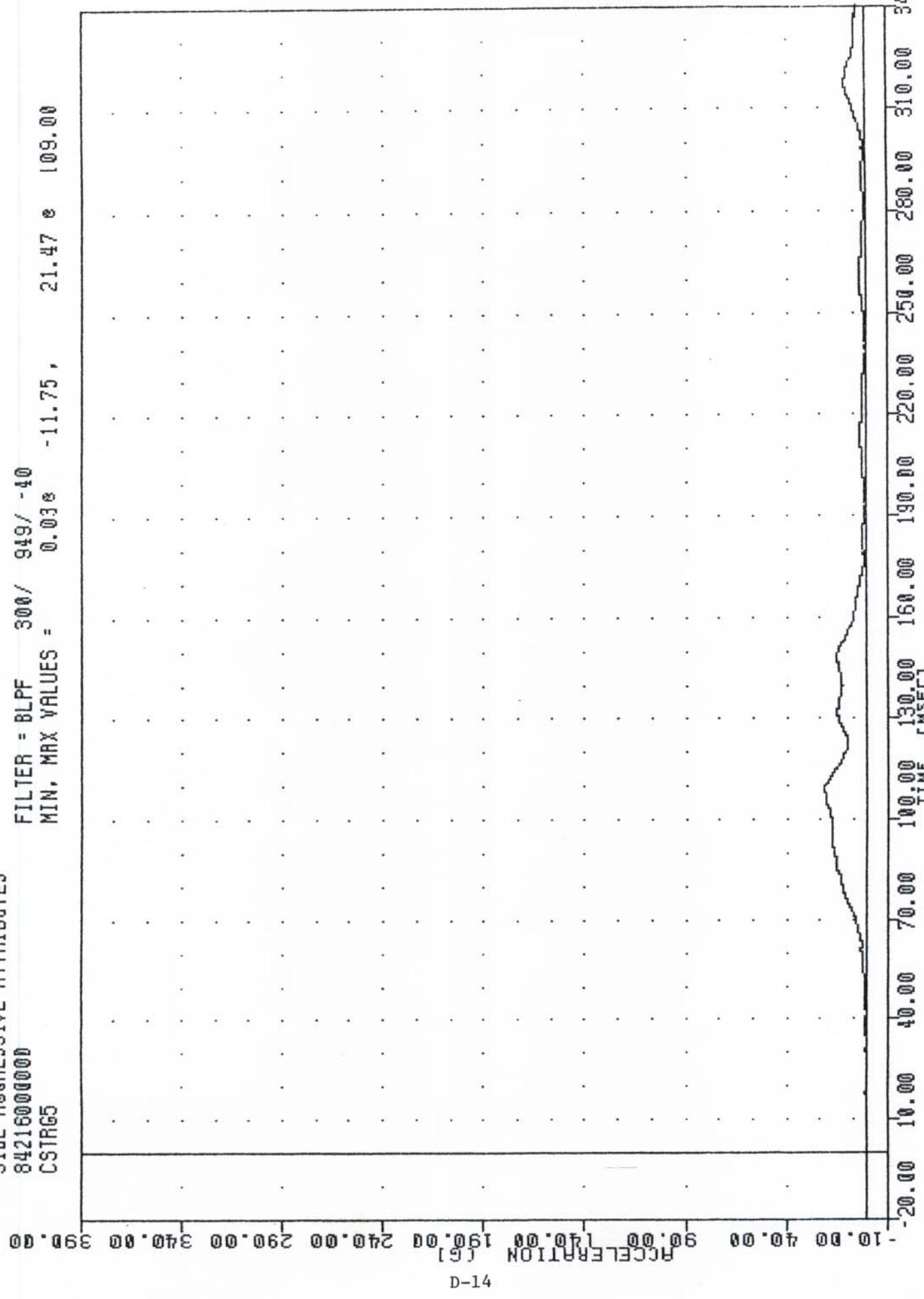
FILTER = BLPF 300/ 949/ -40
 MIN, MAX VALUES = -2.30e 212.75, 20.37 e 109.00



TIME 040805
 SIDE AGGRESSIVE ATTRIBUTES
 84216000000
 CSTRG5

PLU1 DATE 25-nJG-84 15:11:39

FILTER = BLPF 300/ 949/ -40
 MIN, MAX VALUES = 0.038 -11.75, 21.47 e 109.00

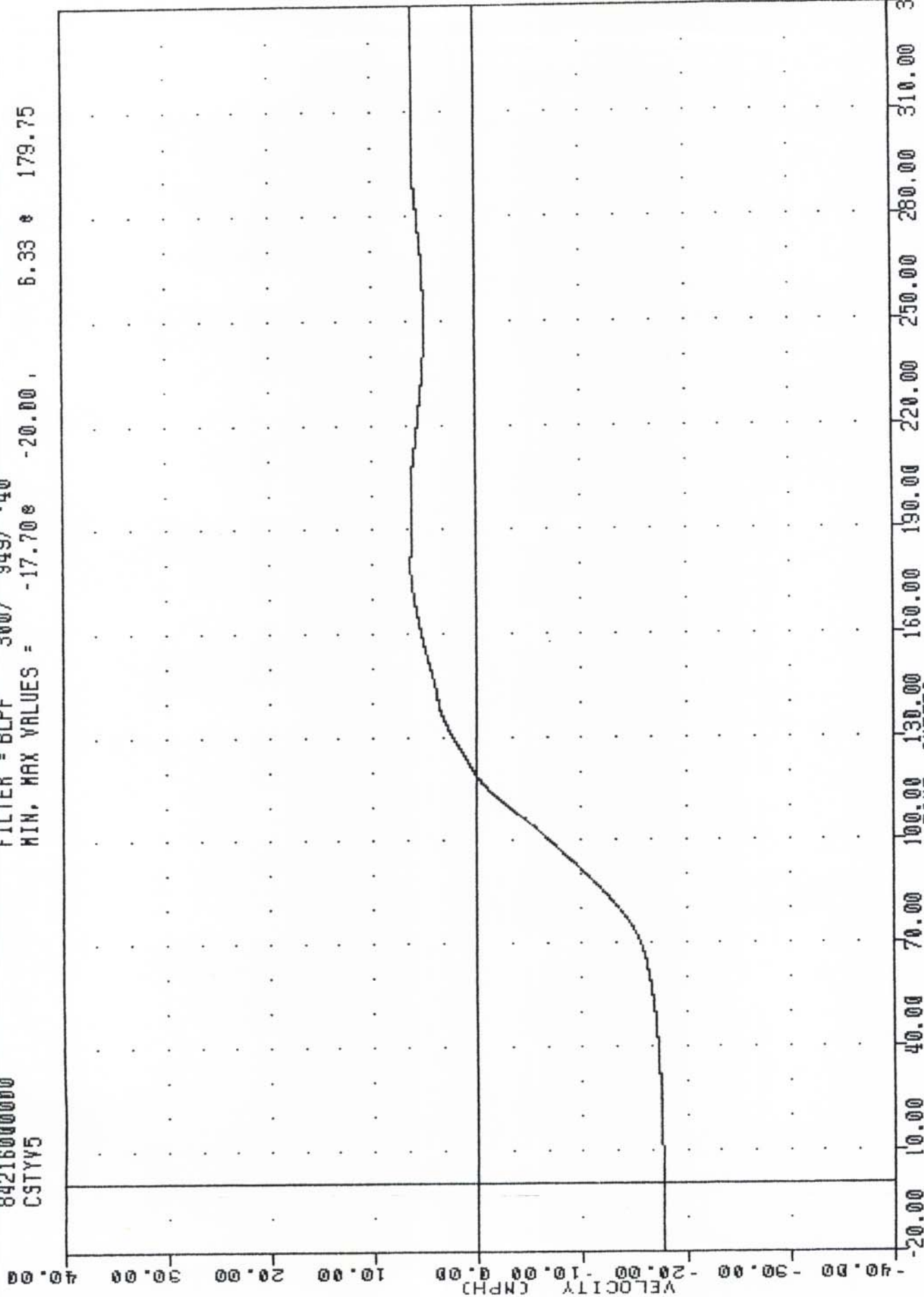


45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
 CHILD CHEST RESULTANT USING ONLY X AND Y

TRC 040803
SIDE AGGRESSIVE ATTRIBUTES
84216000000
CSTYV5

PL0, DATE 23-nov-84 15:23:00

FILTER = BLPF 300/ 949/ -40
MIN, MAX VALUES = -17.700 -20.00, 6.33 179.75



D-15

45 DEGREE CRABBED VOLKSWAGEN RABBIT INTO FIXED POLE
DELTA V USING CSTYG5