

EA12-005

CHRYSLER

12-13-2012

Enclosure 6B

301 Developmental Crash
Tests Public

KJ Development Crash Test
VC07746.Photos-BuildDown



FAULT RECORDING SYSTEMS



774



7746

11

10

8







77146







51115

1346

1335













EA12-005

CHRYSLER

12-13-2012

Enclosure 6B

301 Developmental Crash
Tests Public

KJ Development Crash Test

VC07746.Photos-PostTest





46

7746

STODDARD
17.0 SOLVENT
GAL.



POST

33.5



7746



7746

77746

77A6

ENGINEER
Build Date
Serial Number
Solway P/N
EPES P/N



7746

FLAMMABLE
KEEP FIRE AWAY



7746

WIRING DIAGRAM
ACCIDENT INFORMATION
PART NUMBER
DATE

EA12-005

CHRYSLER

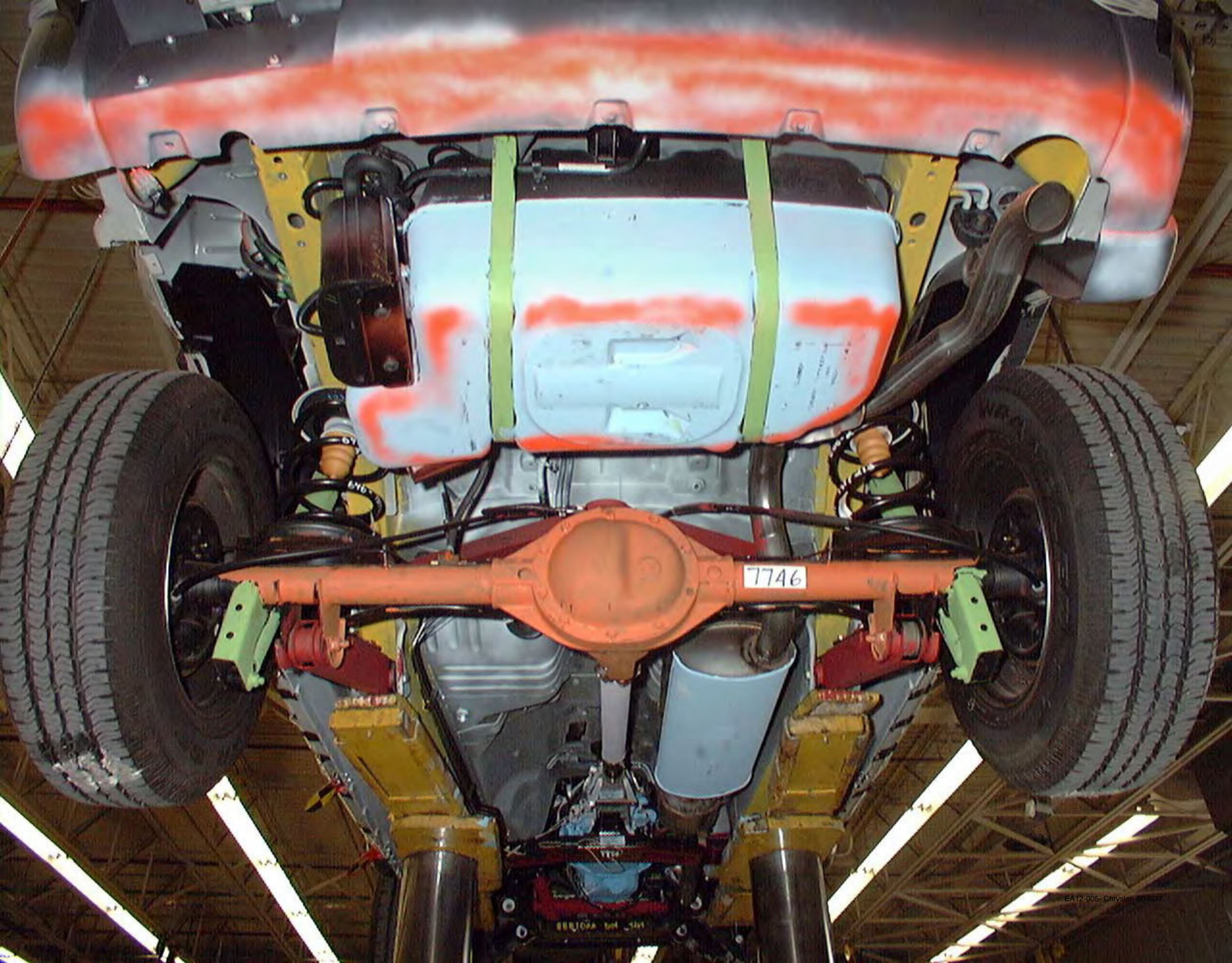
12-13-2012

Enclosure 6B

301 Developmental Crash
Tests Public

KJ Development Crash Test

VC07746.Photos-PreTest



7746



1146

77A6



7746

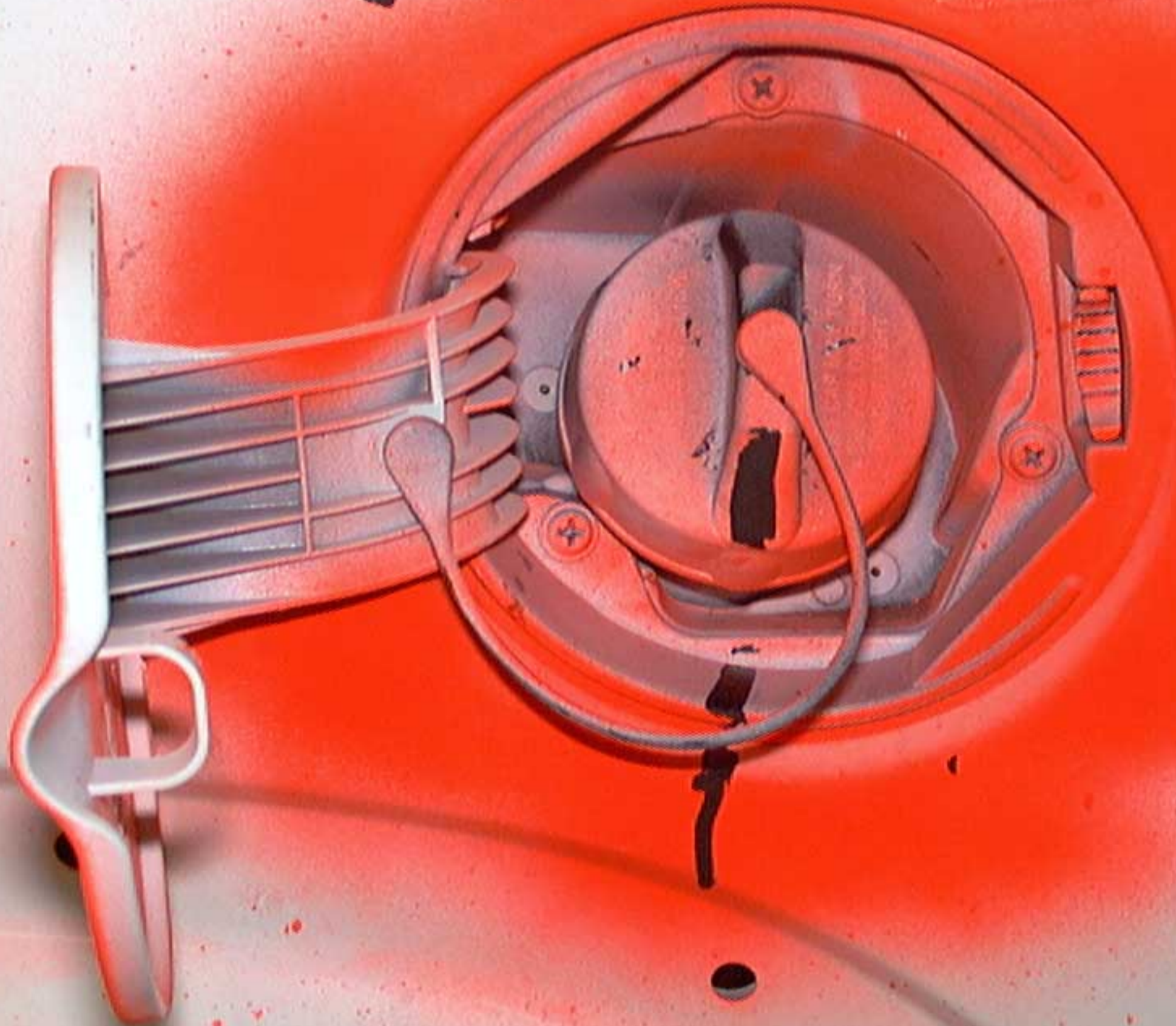


7746

17.0

GAL.

STODDARD
SOLVER



EA12-005

CHRYSLER

12-13-2012

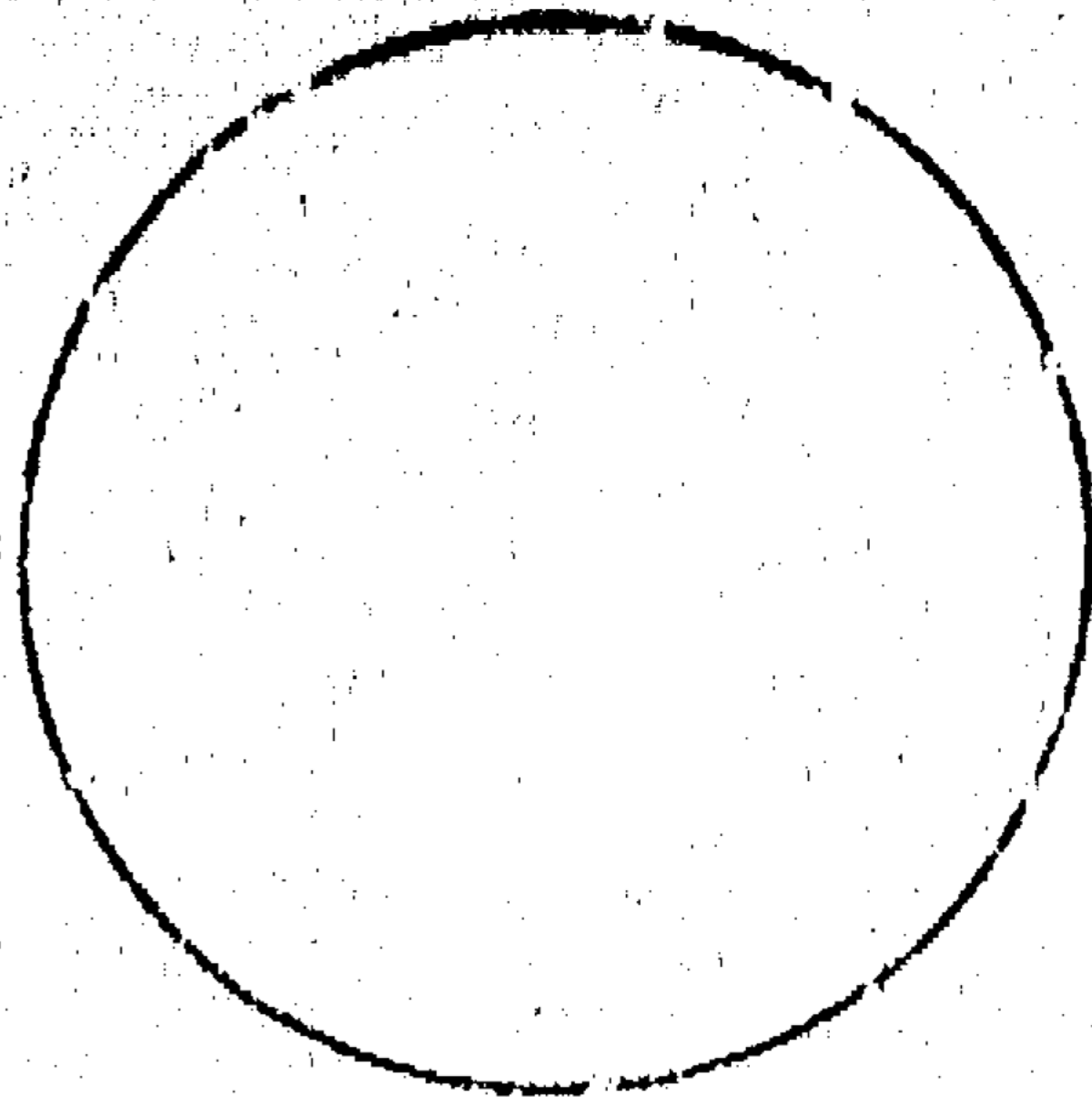
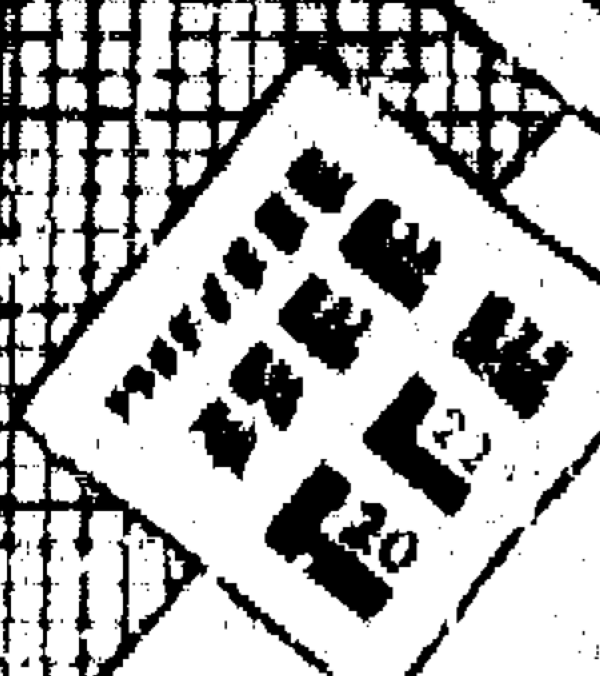
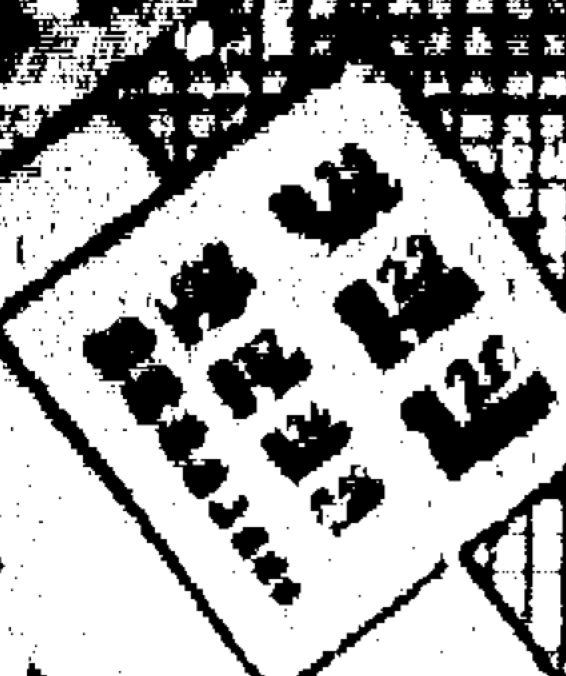
Enclosure 6B

301 Developmental Crash

Tests Public

KJ Development Crash Test

VC7746 Public



POINT SIZE

- 4
- 6
- 8
- 10
- 12
- 14

NEWS GOTHIC

- 14
- 12

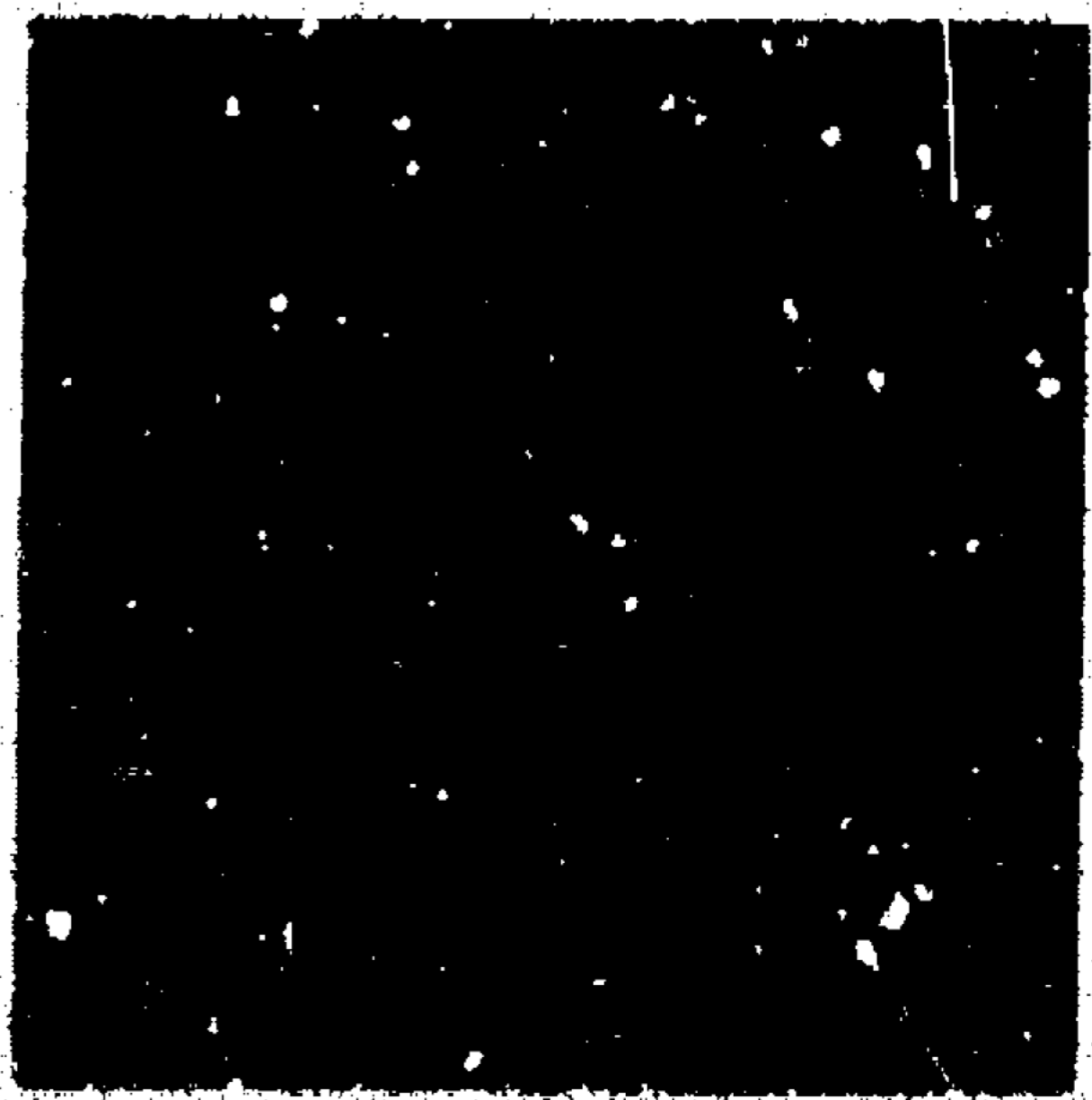
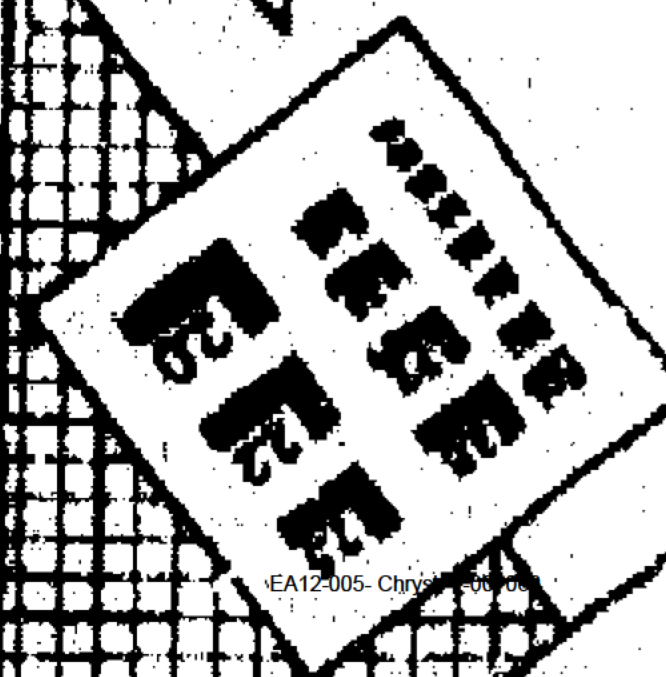
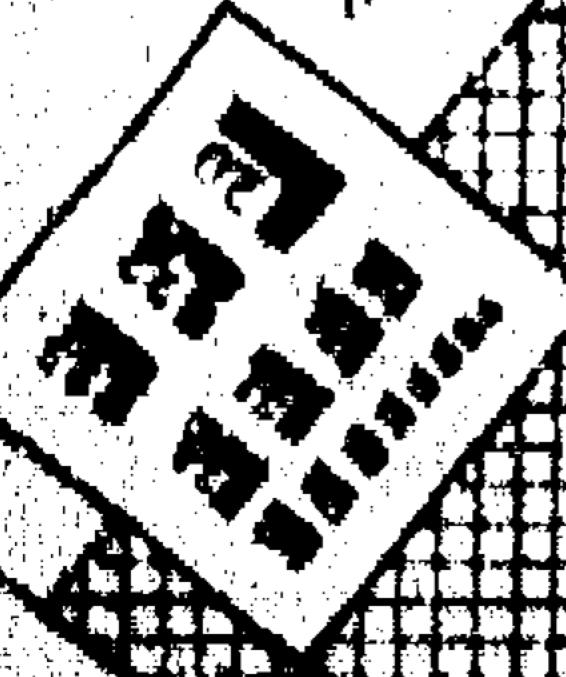
POINT SIZE

- 8
- 6
- 4

1.0	1.1	1.25	1.4	1.6	1.8	2.0	2.2	2.5
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KPTVc Rho9t UmlM Lead 10 VILMU MZMSF XMBBO HwEMH
 C6Mm Zm7Ca 3s431 idrY 126FRKM EB7AL FUDWM ROONE
 Oz7h9 B5c1P W08ok 8t1zXfC9E83 018AJ Z7QY

SERIF (BASKERVILLE) SIZE SANS SERIF (MICROFONT)



Retrieval Methods Inc.
1142 E. Big Beaver Rd.
Troy, MI 48083

Declaration of Intent and Purpose

I David G. Venier

Employed by Retrieval Methods Inc., do hereby declare that the records microfiched herein are actual records of DaimlerChrysler Corp. created during its normal course of business and that it is the express intent and purpose of this organization to return all original records microphotographed herein.

Date: 20 Mar, 03

Microfiche Operator David Venier

Oxford PENDAFLEX®

HANGING FOLDERS

U. S. PAT.
1,281,724
CANADIAN
PAT. 1,044



No. 4152

MADE IN U. S.

V607746 F



SAFETY TEST
VEHICLE CRASH TEST LETTER

PAGE 01

VC07746 30 MPH REAR MOVING BARRIER, KIT-74 ITEM KJ4264R
2002 MV88 301 REAR IMPACT DEVELOPMENT.
TEST DATE 08/27/99

TEST PURPOSE PRIMARY, 2002 USA 301 DEVELOPMENT,
 DETERMINE FUEL SYSTEM INTEGRITY.

IMPACT TYPE TARGET SPEED; 30.1 MPH
 DAMAGE LOCATION; REAR
 BARRIER TYPE; REAR TYPE IV
 BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS; KJ
 CAR LINE; J
 BODY; 74
 ENGINE; 2.4 LITRE
 ENGINE NOTE; ELECTRONIC FUEL INJECTION
 TRANSMISSION; 5 SPEED MANUAL
 TRANS. NOTE;
 VIN AS TESTED; 1JF4T581127 [REDACTED] MOD.
 VIN AS BUILT; 1JF4T581127 [REDACTED] MOD.

TEST SPEED 30.3 TRAP

TEST WEIGHT (LBS) 4040 TOTAL, 1920 FRONT, 2120 REAR

OCCUPANTS LEFT FRONT, HYBRID II BALLAST. AD-46
 RESTRAINT-BELTS ONLY.
 RIGHT FRONT, HYBRID II BALLAST. AD-61
 RESTRAINT-BELTS ONLY.

SAFETY TEST
VEHICLE CRASH TEST LETTER

PAGE 02

VC07746 30 MPH REAR MOVING BARRIER, KJT-74 ITEM KJ4264R
2007 MY88 301 REAR IMPACT DEVELOPMENT.
TEST DATE 08/27/99

BUILD CONDITION

TARGET WEIGHT (LBS) 3415 TOTAL, 1735 FRONT, 1680 REAR REP. BASE WT.
2.4L 2X4 VEHICLE (CHART DATE 3/17/99) W/OUT
LUGGAGE OR OCCUPANTS.
FUEL AND BALLAST 17 GALLONS OF STODDARD SOLVENT.
300 LBS.
50 IN REAR

REPORT CODES

A = TRANSDUCER DATA	D = ALL FILM DATA
C = HIGH SPEED FILM	D = ENGINEER'S REPORT
F = DUMMY KINEMATICS	F = STEERING COLUMN
G = UNDERBODY	H = A-POST
I = DYNAMIC CRUSH	J = ENGINE COMPARTMENT
K = LOOR CRUSH	L = FORCE/CRUSH/ENERGY
M = SPECIAL	N = CATALOG EDP DATA
* = REPORT REQUESTOR	

DISTRIBUTION

M.P. LEVINE	514-17-41	(AB)
M.A. GIELOW	481-02-13	(AB)
M. STEWELTON	422-03-01	(AB)

DATE 09/02/99

TIME 09:42:21.

CHRYSLER MOTORS
SAFETY TEST
VEHICLE CRASH TEST REQUEST

SUPPLEMENT NO. 06

ITEM KJ4264R CHARGE NO. BOSTRIKE ISSUE DATE 7/19/99

VC 7746 30 MPH REAR MOVING BARRIER, KJT-74,
2002 MV88 301 REAR IMPACT DEVELOPMENT.

TEST DATE

8/12/99
SPEED 30.1 MPH

ENGINEER

Colic

SOURCE

70912

TEST PURPOSE

PRIMARY, 2002 USA 301 DEVELOPMENT.
DETERMINE FUEL SYSTEM INTEGRITY.

IMPACT TYPE

TARGET SPEED; 30.1 MPH
DAMAGE LOCATION; REAR
BARRIER TYPE; REAR TYPE IV
BARRIER SURFACE; PLYWOOD

VEHICLE

BODY CLASS; KJ
CAR LINE; J
BODY; 74
ENGINE; 2.4 LITRE
ENGINE NOTE; ELECTRONIC FUEL INJECTION
TRANSMISSION; 5 SPEED MANUAL
TRANS. NOTE;
VIN AS TESTED; 1JF4T581127 [REDACTED] MOD.
VIN AS BUILT; 1JF4T581127 [REDACTED] MOD.

BUILD CONDITION

POST TEST REMARKS

CHRYSLER MOTORS
SAFETY TEST
VEHICLE CRASH TEST REQUEST

SUPPLEMENT NO. 06

TARGET WEIGHT (LBS) 1735 TOTAL, 1735 FRONT, 1680 REAR REP. BASE WT.
TEST VEHICLE (START DATE 3/17/99) W/OUT
LUGGAGE OR OCCUPANTS.

TEST WEIGHT (LBS) 4020 TOTAL 1270 FRONT, 2150 REAR

FUEL BALLAST 17 GALLONS OF STODDARD SOLVENT.

LUGGAGE BALLAST 300 LBS.

OTHER BALLAST

OCCUPANTS

LEFT FRONT, HYBRID II BALLAST.
RESTRAINT-BELTS ONLY.
RIGHT FRONT, HYBRID II BALLAST.
RESTRAINT-BELTS ONLY.

AD NO 46

AD NO 61

MECHANICAL REQ

TARGET VEHICLE PER THIRD SHEET FOR KJ VEHICLE.
POSITION DRIVER AND PASS SEAT IN MID POSITION &
FULL DOWN.
ENSURE DRIVER & PASS AIRBAGS, SIDE CURTAINS,
DRIVER IKB, AND DRIVER PRETENSIONER DO NOT FIRE.
MEASURE VEHICLE ATTITUDE AS RECEIVED AND WHEN
TESTED.
PRESSURE TEST PRE TEST WITH PUMP RUNNING.
FUEL PUMP TO BE RUNNING DURING TEST.
STATIC ROLL VEHICLE POST TEST.
PAINT NAILS AND REAR UNDERBODY COMPONENTS
INCLUDING FUR FILLER LINE, PASSTHROUGH HOLE IN
RAIL, FUEL TANK, REAR SUSPENSION, REAR BUMPER,
ORV CANISTER, LINES AND EQUIPMENT, ETC. IN
CONTRASTING COLORS FOR UNDERBODY VIEW.

3415
330
300

4045

CHRYSLER MOTORS
SAFETY TEST
VEHICLE CRASH TEST REQUEST

SUPPLEMENT NO. 06

INSTRUMENTATION REQ

SEE THIRD SHEET FOR KJ REAR IMPACT TESTING FOR ACCEL. LOCATIONS.
ENSURE DRIVER & PASS AIRBAGS, SIDE CURTAINS, DRIVER IKB AND DRIVER PRETENSIONER DO NOT FIRE.
TRIAxIAL ACCEL ON RAIL NEAR ABOVE TANK MOUNTED ACCEL (NEAR FUEL PASSTHROUGH IN RAIL)
USE INDUCTIVE PICKUPS (6) TO MONITOR ALL (6) AECM OUTPUTS.
X-AXIS ACCEL. ON UPPER SURFACE OF RAIL APPROX 30MM BEHIND RADIATOR SPT. (LEFT AND RIGHT SIDE)
X-AXIS ACCEL ON REAR SURFACE OF RAD. SPT. (HALF WAY UP THE VERTICAL PART OF THE RAD. SPT) LEFT AND RIGHT SIDE. (ENSURE THE ACCEL IS PARALLEL TO THE YZ PLANE W/SPACERS IF NEEDED).
X AXIS ACCEL ON THE REAR SURFACE OF THE RAD. SPT. (AT THE POINT WHERE HORIZ. PART OF RAD. SPT. STARTS CURVING DOWN) LEFT AND RIGHT SIDE.
TRIAxIAL ACCEL L&R FRONT BUMPER CROSSMEMBER (AT FRONT REMOTE SENSOR LOCATIONS)".
MONITOR AECM INTERNAL ACCEL & SAFING SENSOR.
TRIAxIAL ACCEL ATTACHED TO ORU FT LT.
BIAXIAL (X&Y) ACCEL ON INBOARD SURFACE OF FRONT SILL (L&R DOOR) FT SILL FWD STR XMBR
BIAXIAL (X&Y) L&R SILL @ B-PILLAR (ON SAICM HOUSING)
MONITOR SAICM INTERNAL ACCEL. (2L & 2R)
USE INDUCTIVE PICKUPS (2) TO MONITOR RIGHT AND LEFT SAICM SQUIB OUTPUTS/FIRE TIMES.
BIAXIAL (X&Y) ACCEL INBOARD SURFACE OF REAR DOOR SILL LT & RT RR SILL FWD ST XMBR

CHRYSLER MOTORS
SAFETY TEST
VEHICLE CRASH TEST REQUEST

SUPPLEMENT NO. 06

PHOTOGRAPHIC REQ

- 1-VELOCITY CAMERA.
- 1-PIT CAMERA TO VIEW ORVR EQUIPMENT (ATTACHED TO FUEL TANK).
- 1-LEFT OVERALL.
- 1-RIGHT OVERALL.
- 1-HIGH SPEED VIDEO OF LEFT (DRIVER) SIDE OVERALL.
- 1-HIGH SPEED VIDEO OF LEFT (DRIVER) SIDE REAR QUARTER.
- 2-PIT CAMERAS FOR REAR UNDERBODY ANALYSIS.
- 1-L SIDE CLOSE UP OF FUEL FILLER AREA FROM PIT
- 1-R CLOSE UP OF REAR QUARTER OF VEHICLE.
- 1-PIT CAMERA CLOSEUP OF L-PAID FROM KICKUP RWD.
- PRE&POST TEST PHOTOS OF OVERALL & UNDERBODY (REAR) . FRAME RAILS, FUEL TANK/REAR AXLE AREA, ETC.
- PHOTOS OF ALL SENSOR LOCATIONS.

ALL CAMERAS TO HAVE DIGITAL TIMING IF POSSIBLE.

PRE AND POST TEST DIGITAL PHOTOS.

ANALYSIS

- REAR DYNAMIC CRUSH.
- REAR UNDERBODY ANALYSIS.

VEHICLE VELOCITY - ONLY IF REQUESTED.

REMARKS

TEST REQUESTOR: M.P. LEVINE (X35368)
MAKE 2 COPIES OD FILM AND 1 VIDEO, SEND TO:
M.P. LEVINE 514-17-41 1 FILM & 1 VIDEO
M. GIELLOW 481-02-13 1 FILM
PLEASE RETURN VEHICLE TO JTE ATTEN. PAM MORTON.

T. E. REPORT

FUEL SYSTEM REPORT REQUIRED.

REPORT CODES

- | | |
|----------------------|------------------------|
| A = TRANSDUCER DATA | B = ALL FILM DATA |
| C = HIGH SPEED FILM | D = ENGINEER'S REPORT |
| E = DUMMY KINEMATICS | F = STEERING COLUMN |
| G = UNDERBODY | H = A-POST |
| I = DYNAMIC CRUSH | J = ENGINE COMPARTMENT |
| K = DOOR CRUSH | L = FORCE/CRUSH/ENERGY |
| M = SPECIAL | N = CATALOG EDP DATA |
| * = REPORT REQUESTOR | |

DISTRIBUTION

M.P. LEVINE	514-17-41	(AB)
M.A. GIELLOW	481-02-13	(AB)
M. STEBELTON	422-05-01	(AB)

CHRYSLER MOTORS
SAFETY TEST
VEHICLE CRASH TEST REQUEST

SUPPLEMENT NO. 06

*****CHANGED 08/03/99 07:31 LEVINE SUPPLEMENT 01

INSTRUMENTATION REQ

DELETE TRIAXIAL ACCEL. ON FRONT FACE OF TANK.
DELETE TRIAXIAL ACCEL ON BOTTOM OF TANK
DELETE TRIAXIAL ACCEL ON SIDE OF TANK NEAR RAIL PASS-THRU

REMARKS

MODIFY PLEASE RETURN VEHICLE TO CTC STRUCTURES LAB
TO READ PLEASE RETURN VEHICLE TO JTE ATTN. PAM MORTON.
DELETE ATTN AMIR HASAN.

*****CHANGED 08/04/99 06:38 LEVINE SUPPLEMENT 02

BUILD CONDITION

*****CHANGED 08/05/99 10:35 LEVINE SUPPLEMENT 03

MECHANICAL REQ

MODIFY FULL DOWN.
TO READ FULL DOWN.
ADD ENSURE DRIVER & PASS AIRBAGS, SIDE CURTAINS,
ADD DRIVER IKB, AND DRIVER PRETENSIONER DO NOT FIRE.

INSTRUMENTATION REQ

MODIFY ACCEL. LOCATIONS.
TO READ ACCEL. LOCATIONS.
ADD ENSURE DRIVER & PASS AIRBAGS, SIDE CURTAINS,
ADD DRIVER IKB AND DRIVER PRETENSIONER DO NOT FIRE.

*****CHANGED 08/05/99 14:53 LEVINE SUPPLEMENT 04

CHRYSLER MOTORS
SAFETY TEST
VEHICLE CRASH TEST REQUEST

SUPPLEMENT NO. 06

INSTRUMENTATION REQ

MODIFY OUTPUTS,
TO READ OUTPUTS.

- ADD X-AXIS ACCEL. ON UPPER SURFACE OF RAIL APPROX 30MM
- ADD BEHIND RADIATOR SPT. (LEFT AND RIGHT SIDE)
- ADD X-AXIS ACCEL. ON REAR SURFACE OF RAD. SPT.
- ADD (HALF WAY UP THE VERTICAL PART OF THE RAD. SPT)
- ADD LEFT AND RIGHT SIDE. (ENSURE THE ACCEL. IS
- ADD PARALLEL TO THE YZ PLANE W/SPACERS IF NEEDED).
- ADD X AXIS ACCEL. ON THE REAR SURFACE OF THE RAD. SPT.
- ADD (AT THE POINT WHERE HORIZ. PART OF RAD. SPT.
- ADD STARTS CURVING DOWN) LEFT AND RIGHT SIDE.

*****CHANGED 08/10/99 06135 LEVINE SUPPLEMENT 05

INSTRUMENTATION REQ

- MODIFY BIAXIAL (X&Y) L&R SILL @ B-PILLAR
- TO READ BIAXIAL (X&Y) L&R SILL @ B-PILLAR (ON SAICM
- ADD HOUSING)
- ADD MONITOR SAICM INTERNAL ACCEL. (2L & 2R)

*****CHANGED 08/10/99 09152 LEVINE SUPPLEMENT 06

INSTRUMENTATION REQ

- ADD USE INDUCTIVE PICKUPS (2) TO MONITOR RIGHT AND
- ADD LEFT SAICM SQUIB OUTPUTS/FIRE TIMES.

CHRYSLER PD
9700 SOUTH MSZ
CHRYSLER MI 48110

10143107 08/26/99

ID VE 7746 1ET MI

LEFT FRONT
LEFT REAR

1120 lb
923 lb

RIGHT FRONT
RIGHT REAR

1019 lb
920 lb

FRONT AXLE

2209 lb

BACK AXLE

1853 lb

TOTAL

4062 lb

VEHICLE ATTITUDE

TEST NUMBER VC7746

TEST ENGINEER COLLIE

ITEM NUMBER KJ1264R

TEST DATE ___/___/___

FENDER/WHEELWELL HEIGHTS

BULL HEIGHTS

AS RECEIVED

AS BUILT-UP

AS TESTED

	LF	LR	RF	RR
AS RECEIVED	32.6	33.5	33.1	34.1
AS BUILT-UP				
AS TESTED	31.3	32.2	31.4	32.7

X, Y, Z DIMENSIONS

TEST NUMBER VC7748, TEST ENGINEER COLIE

TEST TYPE: 30 MPH REAR WITH
TYPE 4 MOV. BARR.

V.I.N. 1JF4T5B112A

LOCATION	X	Y	Z	LOCATION	X	Y	Z
BC1	XXXX	0.0	XXXX	BC2	159.6	0.0	XXXX
B1			XXXX	B2			XXXX
U1	90.1	12.0	11.2	U2	95.5	17.1	11.5
U3	115.9	10.8	2.2	U4	114.9	12.2	2.2
U5	110.8	0.3	8.6	U6	137.1	18.2	23.5
U7	111.5	12.6	23.1	U8	135.6	5.3	16.1
U9	135.6	4.4	13.3	U10	145.4	13.2	13.3
U11	140.1	5.7	13.3	U12	147.2	18.8	23.8
U13	148.0	12.4	29.1				
VC1	0	163.7					
VC	163.7	0					
LFS	90.9	31.9	11.5				
LMS	74.5	21.7	12.0				
LRA 4" TARGET W/O BLACK RING	125.8	33.0	14.0				
		44-				44-	

TRAMMEL DIMENSIONS:

LFS-LMS PRE 74.02 U1-U2 36.36

POST

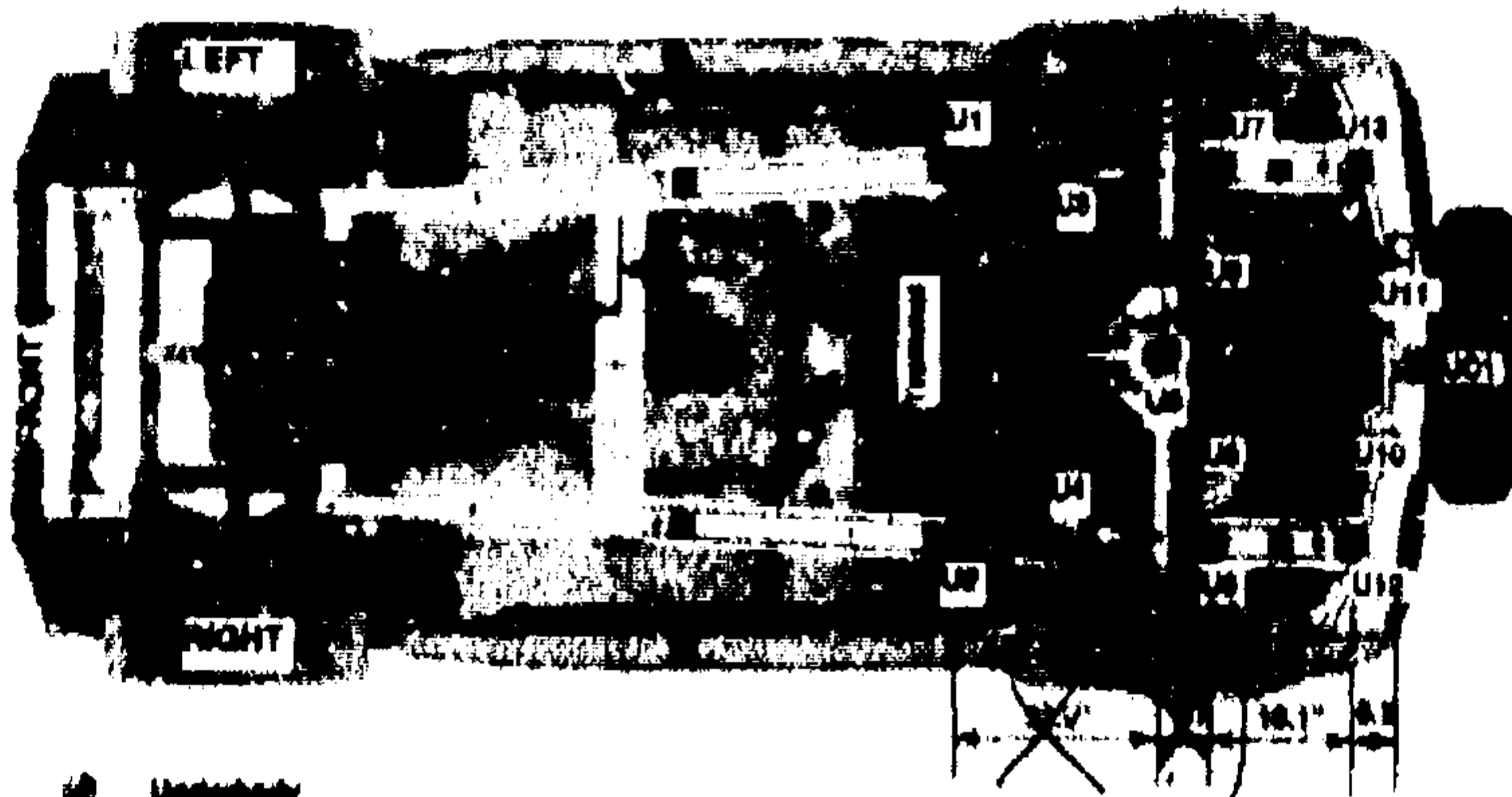
Program: 02KJ

VC7796 Item No. K.T.4264R

REAR UNDERBODY FOR ALL REAR IMPACTS

Impact Analysis Engineer: HFN / 05/03/1999
 Visibility Approved: DGL / 05/03/1999
 Approved for CPQ Use: QAB / 05/03/1999

Model Name: VC
 Jeep Cherokee 4x4 MJ
 Target and Accelerometer Locations
 For Rear Impact



- U Underbody
- S Side View
- U Single Axis (X) Accelerometer
- M Multi (X & Z) Accelerometer

Guidelines to Placement of Critical Targets:

Item	Comments
U1 & U2	5.5" ahead of forward edge of control arm mounting bracket.
U3 & U4	At midpoint of upper swing arms.

U6 BLOCKED BY
 TAIL PIPE
 - MOVED TO BE
 10.7" AHEAD
 OF U10

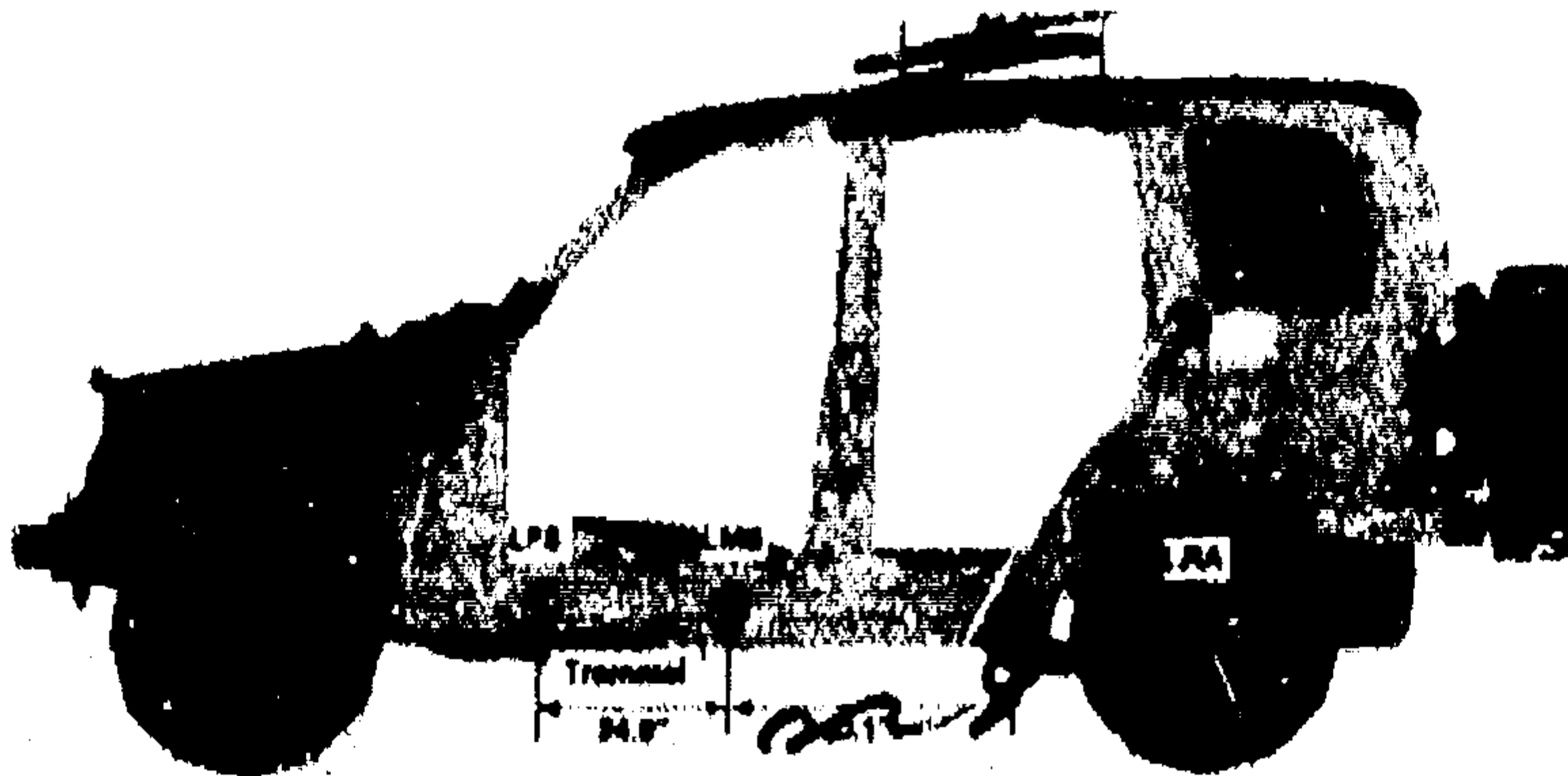
Program: 02KJ

VOYAGE Item No. **RT426AR**

LEFT SIDE FOR ALL REAR IMPACTS

Impact Analysis Engineer: FRN / 06/03/1999
Visibility Approved: FXL / 06/03/1999
Approved for GP3 Use: GAB / 06/03/1999

Vehicle Identification: VD
Jeep Cherokee 02KJ

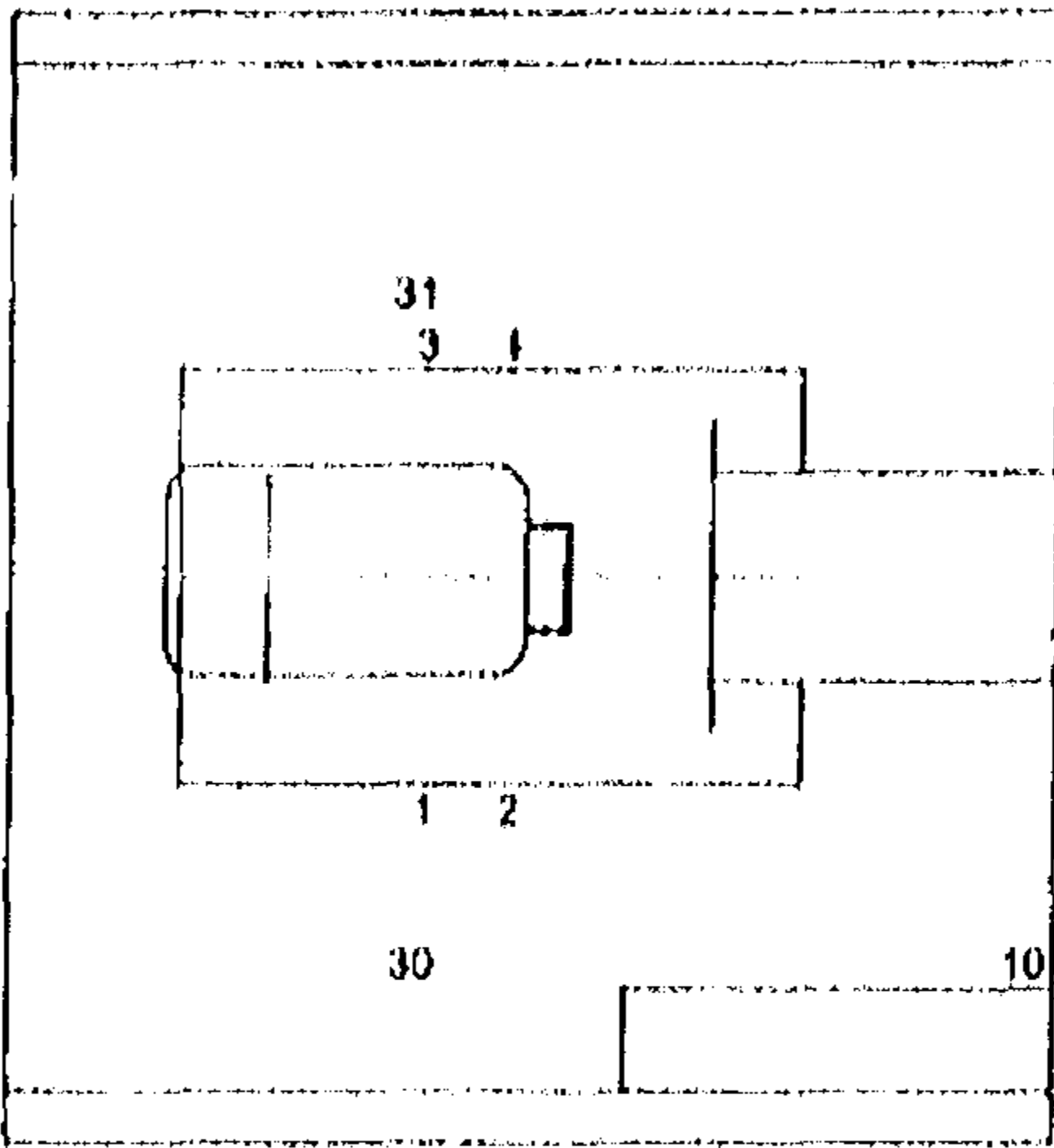


Side view

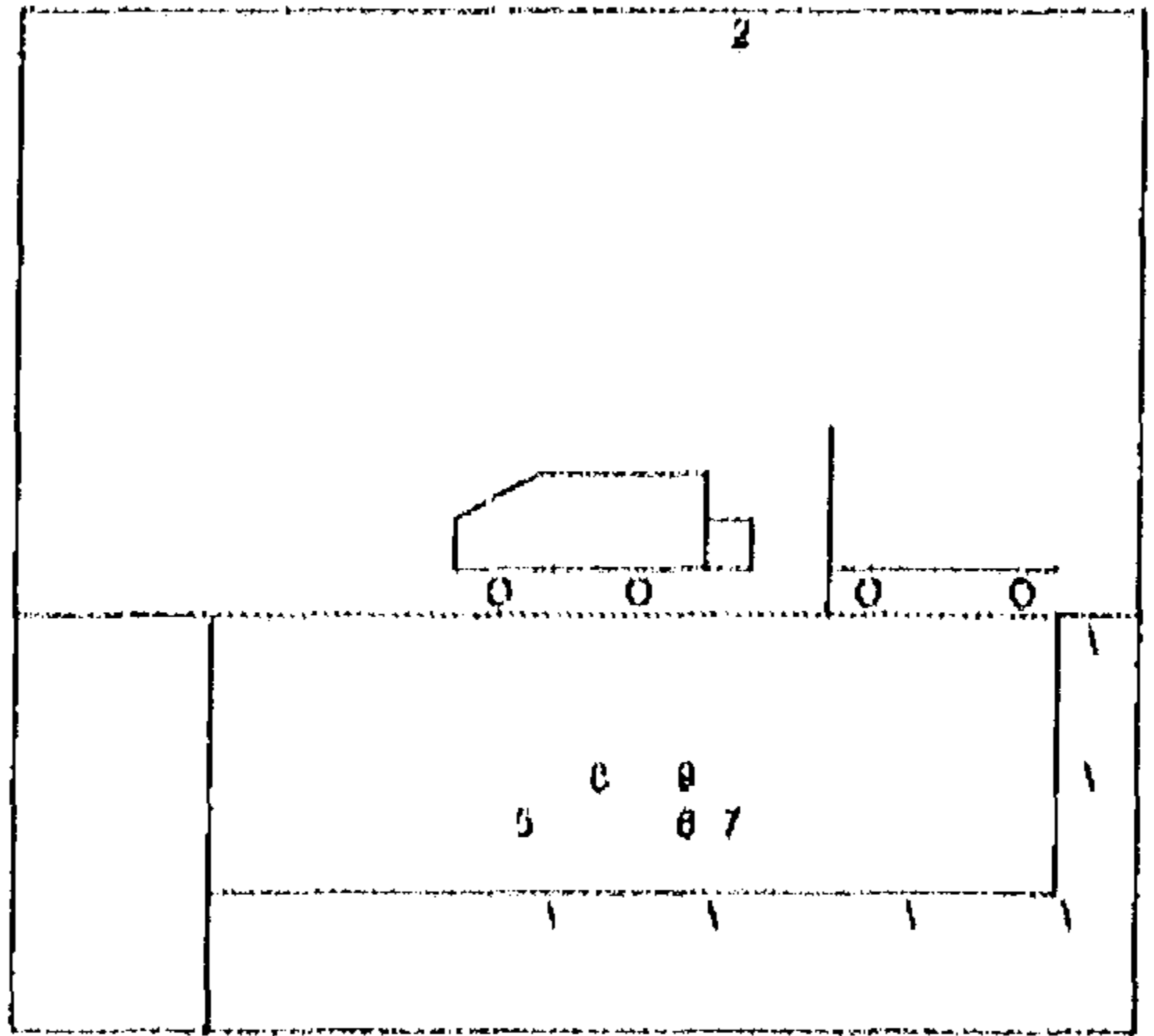
Guidelines to Placement of Critical Targets:

Item	Comments
L1	Target not required on rear impact.
L3	Target not required on rear impact.
L5	Target not required on rear impact.
LCP	Target not required on rear impact.
LFS	Target not required on rear impact.
LFA	Place target on center of hub.
LFS, LMS	Besides LFA, these are only other two targets required.

PLAN VIEW



SIDE VIEW



TEST NUMBER:	VO 7746	VEHICLE TYPE:	K174
TEST TYPE:	30 MPH Rear Type IV Impact	TEST ENGINEER:	Mark Cole
REQUEST DATE:	08/26/1999 >> Revised		

#	VIEW DESCRIPTION A=ANALYSIS	CAM S/N	LENS FL	LENS S/N	LENS MFG.	F. STP	PNL	SKT	CBL	MISC
1	A Lt - Dynamic Crush	428	18MM	110933	KIN	5.6 1/2				
2	Lt - Close Up of Rear Quarter Panel	1878*	35MM	111289	KIN	5.6 1/2				
3	Rt - Overall	280	18MM	110900	KIN	5.6 1/2				
4	Rt - Close Up of Rear Quarter Panel	1878*	35MM	111290	KIN	5.6 1/2				
5	A Pit - Overall Underbody - Forward	430	13MM	8	COS	4 1/4				
6	A Pit - Overall Underbody - Rear	431	13MM	4	COS	4 1/4				
7	Pit - View of ORVR Equipment (attached at LR)	277	25MM	25-1	COS	4				
8	Pit - Close Up of Fuel Fill Area	278	25MM	25-2	COS	4				
9	Pit - Close Up of Lt Rail from Kick Up to Rear	285	25MM	107230	KIN	4 1/4				
10	Velocity	288	100MM	B2088	LGT	8				
30	Lt - Ektapro - Overall View	EKTA	ZOOM	V8X18	CAN	8 3/4				
31	Lt - Ektapro - Close Up of Rear Quarter	PRO	ZOOM	814273	BNY	8				
	ve photo w/0 0804' >> Revised									
	2- film copies 1- Mark Levine									
	1- M. Glew									
	1- vha Mark Levine									

8/27/99

FRIDAY #2

FUEL SYSTEM AND STATIC ROLLOVER SUMMARY

TEST NUMBER VC7746, ITEM NUMBER KJ4264R, TEST ENGINEER COLIE

V.I.N. 1JF4T50112A [REDACTED] TEST DATE / / , ROLL DATE 08/20/96

TEST TYPE, 30 MPH TYPE IV MOVING BARRIER REAR IMPACT

FUEL, TYPE AND QUANTITY - .767 B.G. STODDARD SOLVENT, 17.0 GALLONS

TEST SPEED MPH, TEST WEIGHT POUNDS.

POST IMPACT LEAKAGE (OZ) / AT IMPACT

1ST 5 MIN.

NEXT 25 MIN.

POST TEST PRESSURE CHECK

ELECTRIC FUEL PUMP RUN

NO STATIC ROLL PERFORMED

STATIC ROLL LEAKAGE WITH VEHICLE SIDE DOWN FIRST

		FUEL LEAKAGE LOCATIONS DURING STATIC ROLL				TOTAL
ROLL TIME						
0-90	1ST 5 MIN	25				26 *
157	POST 5 MIN	17				17 **
90-180	1ST 5 MIN					
	POST 5 MIN					**
180-270	1ST 5 MIN					
	POST 5 MIN					**
270-360	1ST 5 MIN					
	POST 5 MIN					**

* OUNCES IN 5 MINUTES, ** OUNCES PER MINUTE

POST TEST FUEL SYSTEM OBSERVATIONS

LAST FORM MODIFICATION 08/22/96 - GAB (TESTOBS896, DOCVCFORMS)

DATE 08/27/99
TIME 17:23:07.

ELECTRONIC DATA PROCESSING
EDP TEST LETTER

VEHICLE CRASH ENGINEERING
DEPT 5320

VC07746 ITEM KJ4264R
VC07746 30 MPH REAR MOVING BARRIER, KJT-74 ITEM KJ4264R
2002 MV58 301 REAR IMPACT DEVELOPMENT.
TEST DATE 08/27/99

TEST PURPOSE PRIMARY, 2002 USA 301 DEVELOPMENT,
DETERMINE FUEL SYSTEM INTEGRITY.

IMPACT TYPE TARGET SPEED; 30.1 MPH
DAMAGE LOCATION; REAR
BARRIER TYPE; REAR TYPE IV
BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS; KJ
CAR LINE; J
BODY; 74
ENGINE; 2.4 LITRE
ENGINE NOTE; ELECTRONIC FUEL INJECTION
TRANSMISSION; 5 SPEED MANUAL
TRANS. NOTE;
VIN AS TESTED; 1JF4T58112A [REDACTED] MOD.
VIN AS BUILT; 1JF4T58112A [REDACTED] MOD.

TEST SPEED 30.3 TRAP

TEST WEIGHT (LBS) 4040 TOTAL, 1920 FRONT, 2120 REAR

OCCUPANTS LEFT FRONT, HYBRID II BALLAST. AD-46
RESTRAINT-BELTS ONLY.
RIGHT FRONT, HYBRID IX BALLAST. AD-61
RESTRAINT-BELTS ONLY.

BUILD CONDITION

DATE 08/27/99
TIME 17123107.

ELECTRONIC DATA PROCESSING
EDP TEST LETTER

VEHICLE CRASH ENGINEERING
DEPT 5320

VC07746 ITEM KJ4264R
VC07746 30 MPH REAR MOVING BARRIER, KJT-74 ITEM KJ4264R
2002 MYBB 301 REAR IMPACT DEVELOPMENT.
TEST DATE 08/27/99

TARGET WEIGHT (LBS) 3415 TOTAL, 1735 FRONT, 1600 REAR REP. BASE WT.
2.4L 2X4 VEHICLE (CHART DATE 3/17/99) W/OUT
LUGGAGE OR OCCUPANTS.

FUEL AND BALLAST 17 GALLONS OF STODDARD SOLVENT.
300 LBS.
50 IN REAR

EDP TECHNICIAN S. MARCHENIA

No. of Pages 141
CC

M. A. GIELOW	401-02-13
M. P. LEVINE	514-17-41
M. STEBELTON	422-03-01

TITLE: Page Index of EDP plots

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***** VC07746A *****

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- PAGE: 002 TBR Channels 009 - 016
- PAGE: 003 TBR Channels 017 - 024
- PAGE: 004 TBR Channels 025 - 032
- PAGE: 005 TBR Channels 033 - 040
- PAGE: 006 TBR Channels 041 - 048
- PAGE: 007 TBR Channels 049 - 056
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- PAGE: 009 TBR Channels 065 - 072
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***** VC07746B *****

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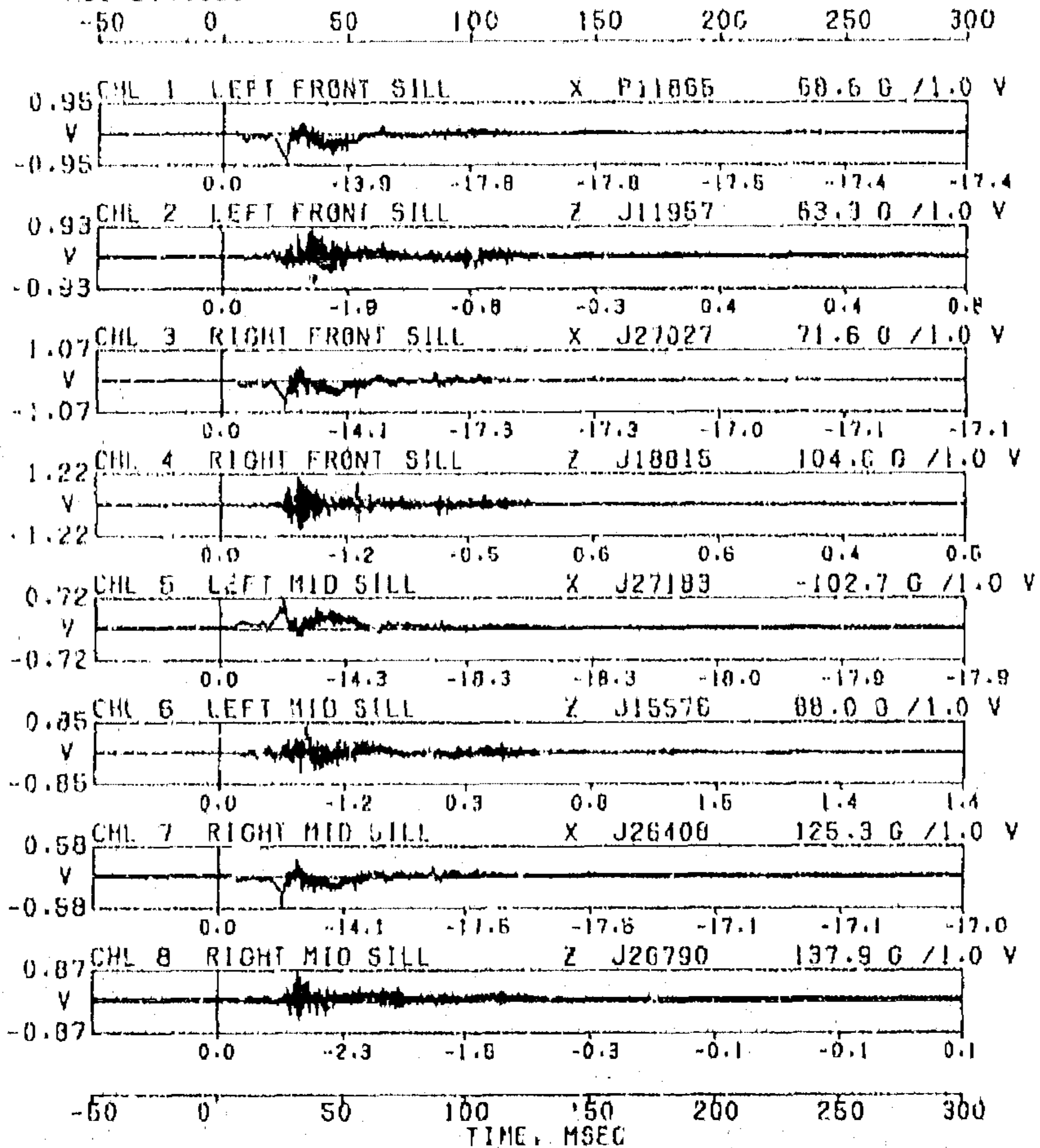
TITLE: Moving barrier Channels

PAGE: 138 LT RAIL MBAR MID X Chl 97
 PAGE: 139 LT RAIL MBAR MID X, Chl 97, VD
 PAGE: 140 RT RAIL MBAR MID X Chl 98
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TRANSDUCER SUMMARY REPORT

VC01746 30 MPH REAR MOVING BARRIER, XJY-74, ITEM KJ4264R
 2002 MV35 301 REAR IMPACT DEVELOPMENT
 IMPACT ANALYSIS DEPT. 5320
 NOV 27, 1999

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 DATA SET 08/27/99BK
 ERRATA 1



NOTE COMPUTED FIRST INTEGRAL VALUES ARE INDICATED BELOW EACH CHANNEL AND BRIDGED DATA IS INDICATED BY A "-B-".

TRANBOUCER SUMMARY REPORT

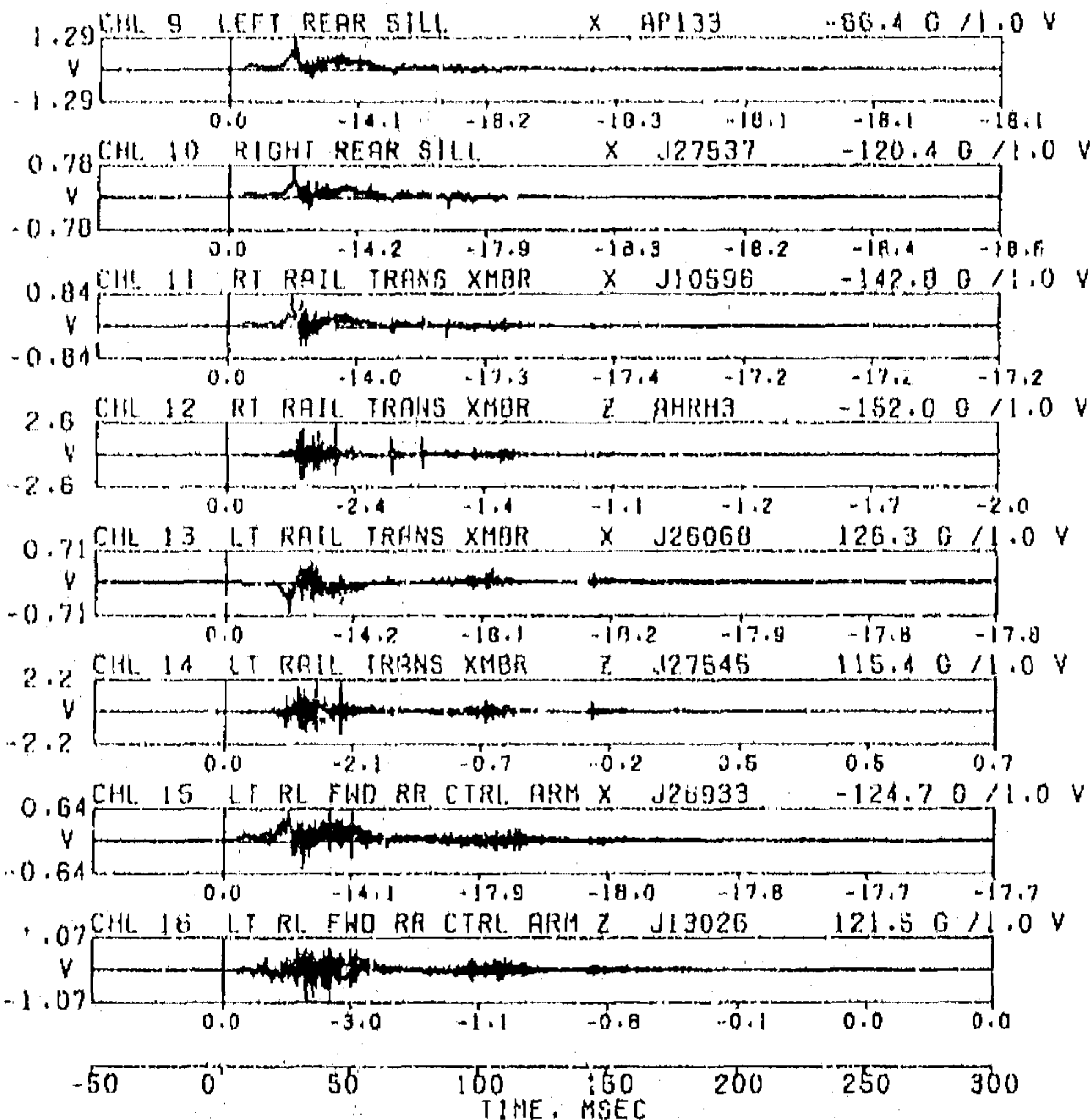
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 2002 HY55 301 REAR IMPACT DEVELOPMENT
 IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

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DATA SET 08/27/990K

ERRATA 1

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NOTE COMPUTED FIRST INTEGRAL VALUES ARE INDICATED BELOW EACH CHANNEL AND BRIDGED DATA IS INDICATED BY A -B-.

TRANSDUCER SUMMARY REPORT

VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
 2002 MYSS 301 REAR IMPACT DEVELOPMENT
 IMPACT ANALYSIS DEPT. 5320

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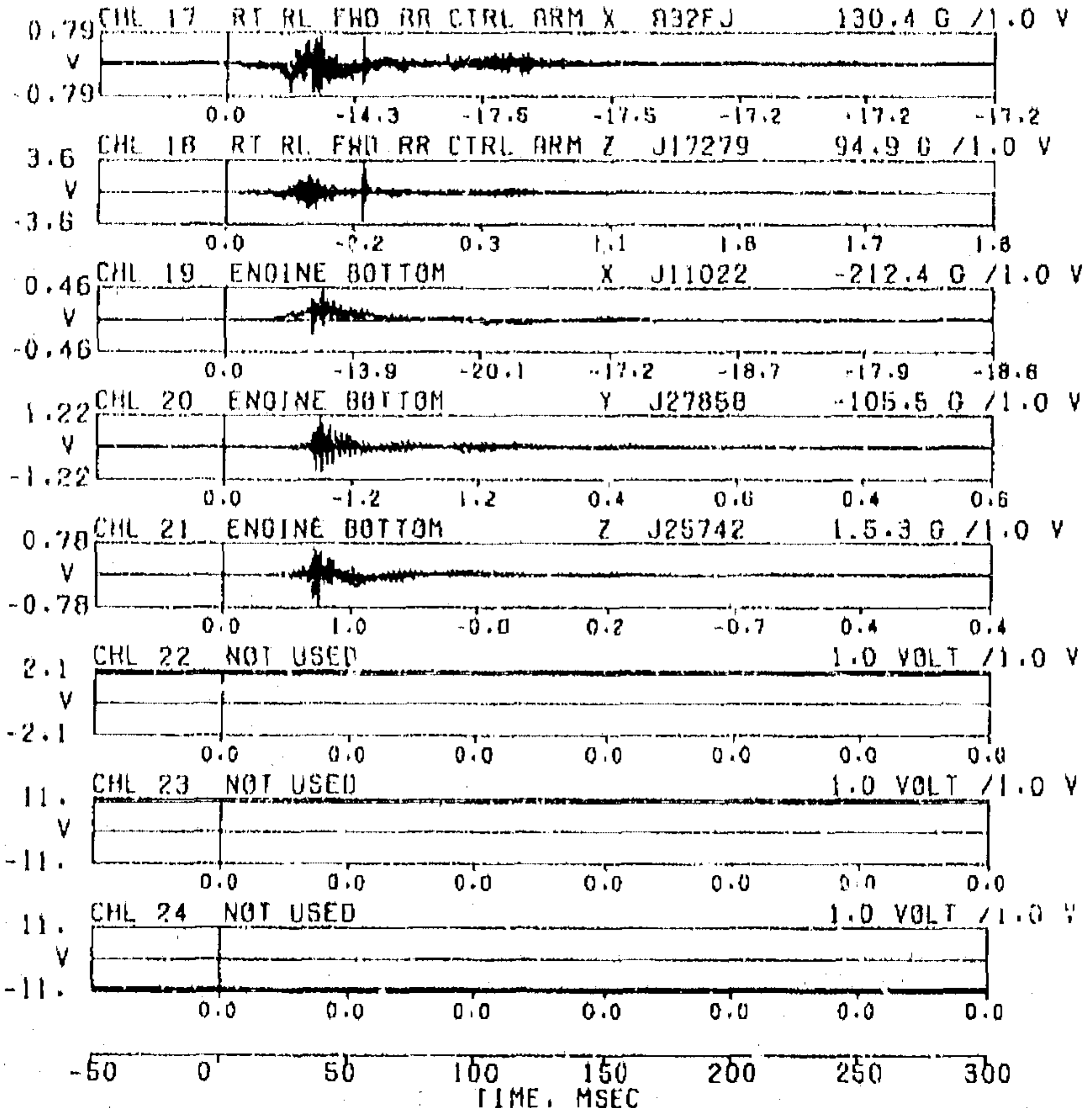
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AUG 27, 1999

ERRATA

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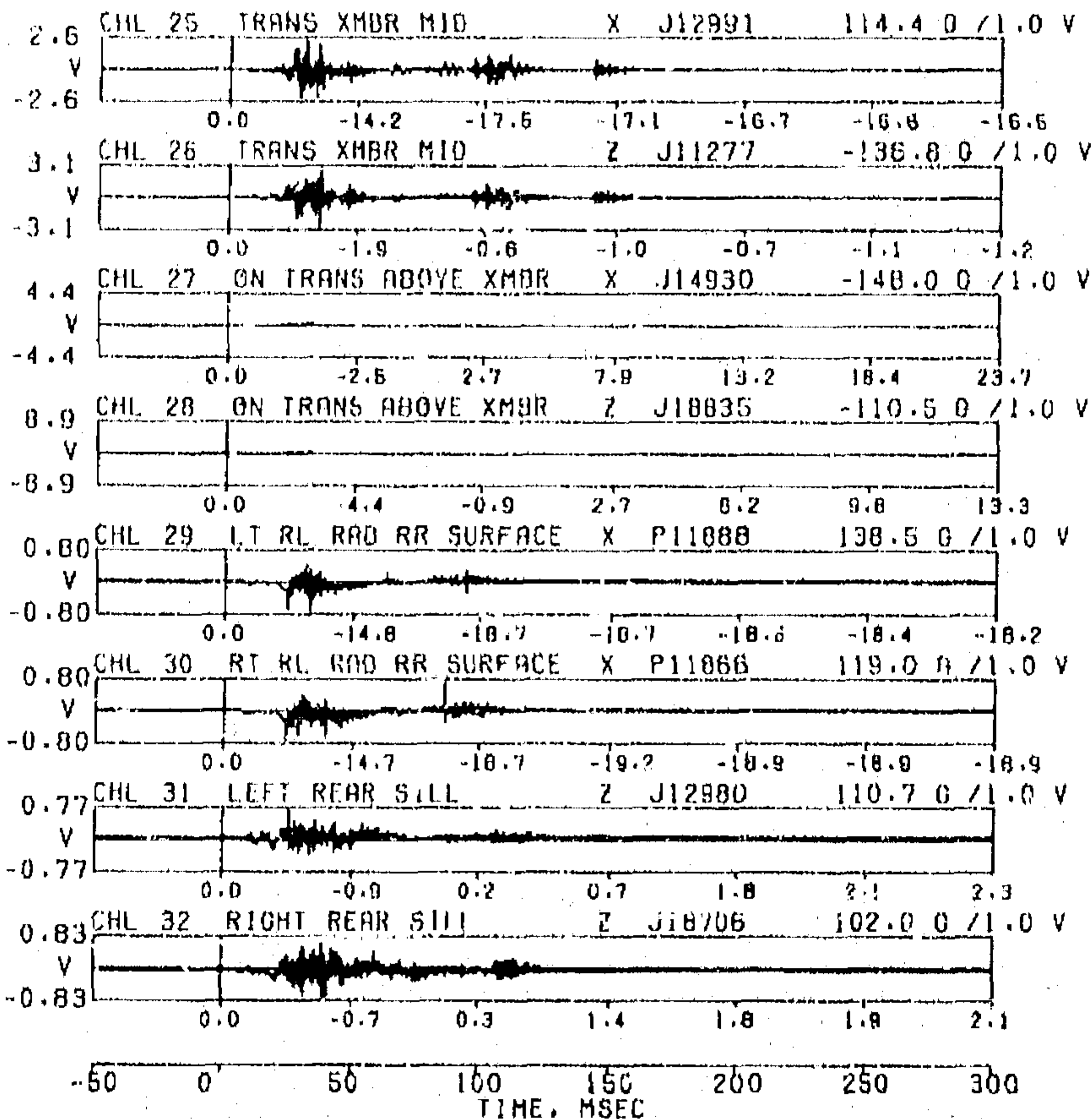
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TRANSDUCER SUMMARY REPORT

VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
 2002 MY98 301 REAR IMPACT DEVELOPMENT
 IMPACT ANALYSIS DEPT. 6320
 AUG 27, 1999

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 DATA 511 09/27/99BL
 ERRATA 1

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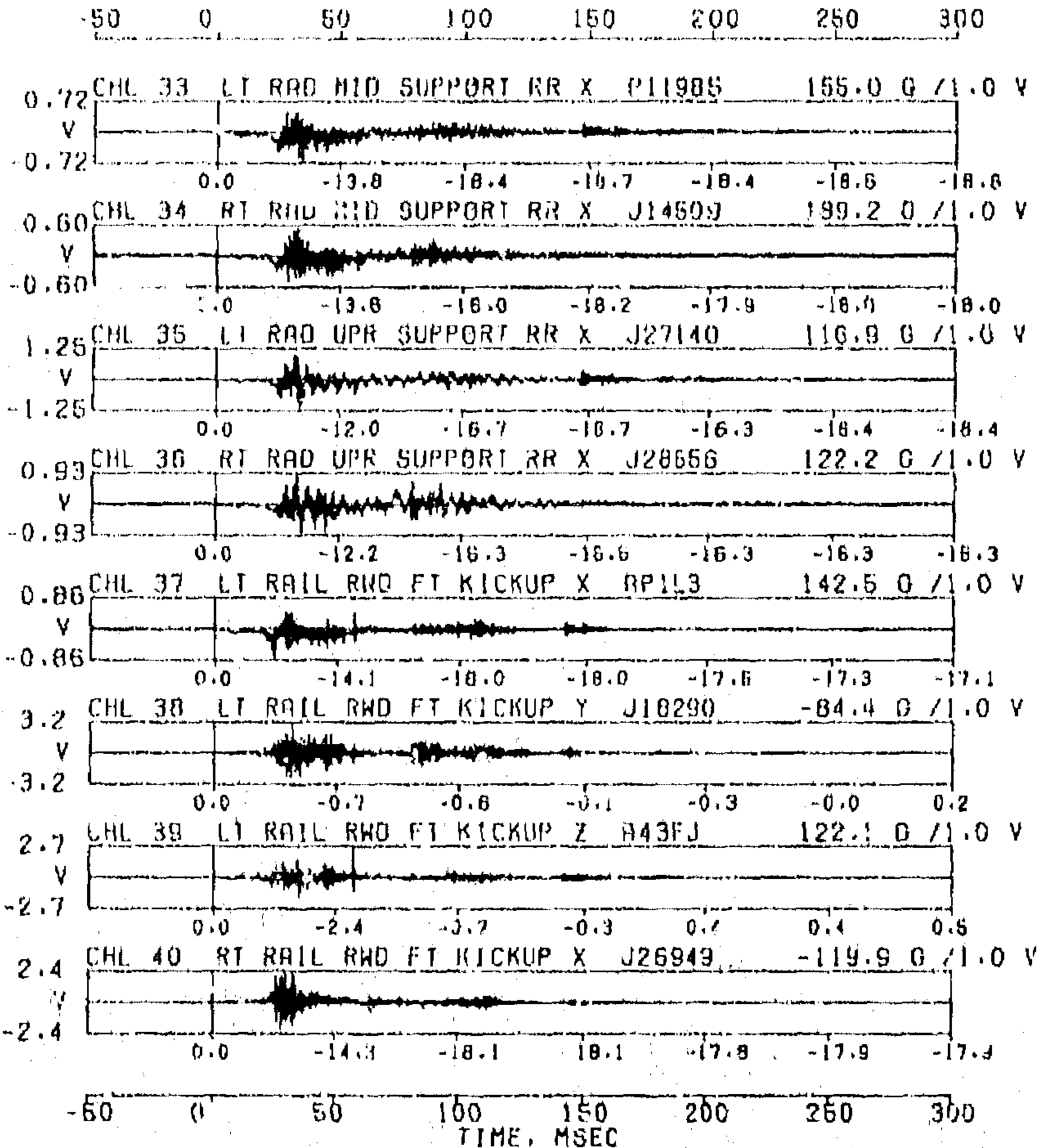


NOTE COMPUTED FIRST INTEGRAL VALUES ARE INDICATED BELOW EACH CHANNEL AND BRIDGED DATA IS INDICATED BY A -B-

TRANSDUCER SUMMARY REPORT

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 2002 MVSS 301 REAR IMPACT DEVELOPMENT
 IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

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 DATA SET 08/27/99BM
 ERRATA 1



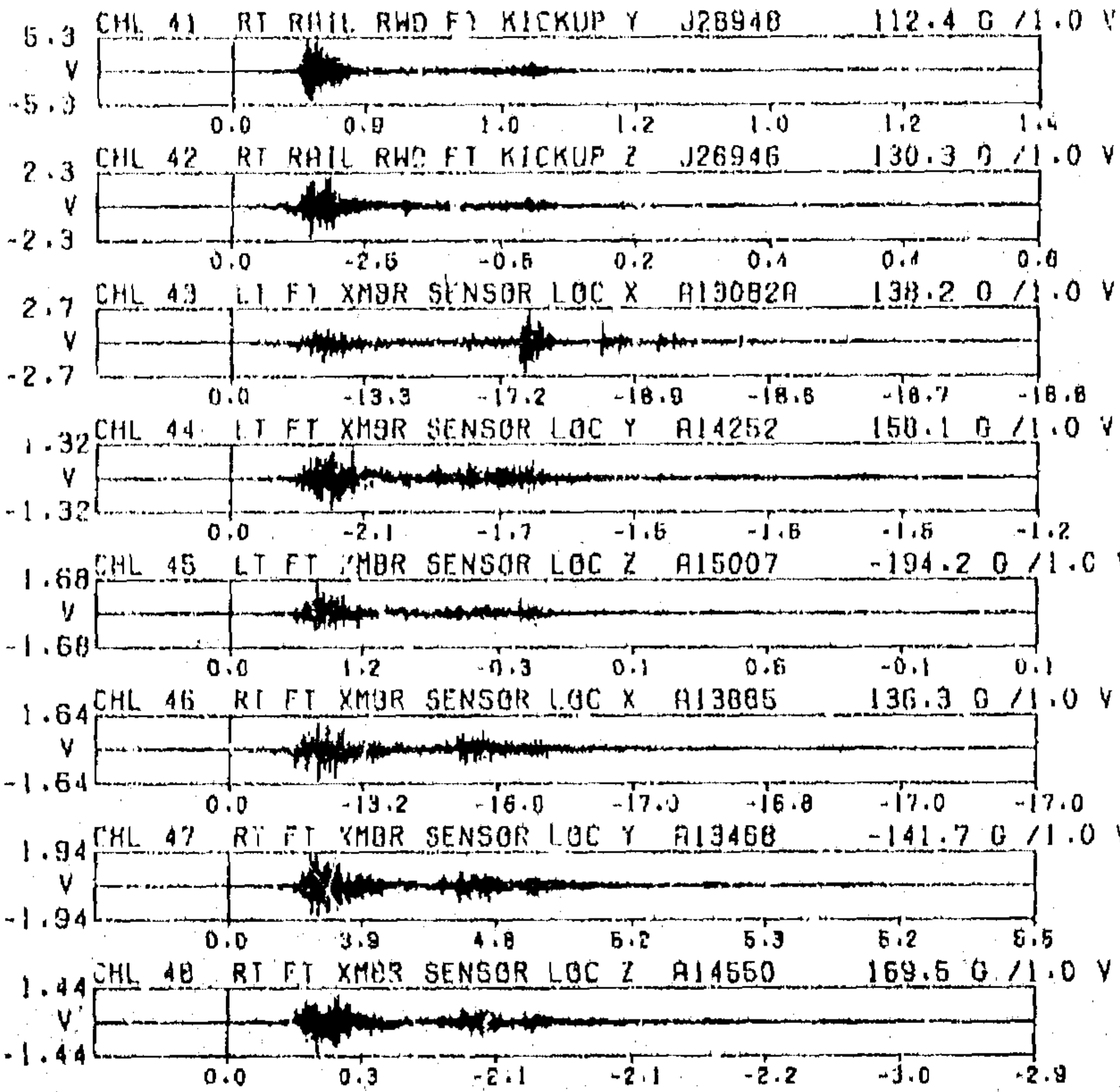
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 2002 MYSS 301 REAR IMPACT DEVELOPMENT
 IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

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 DATA SET 08/27/9901
 ERRATA 1

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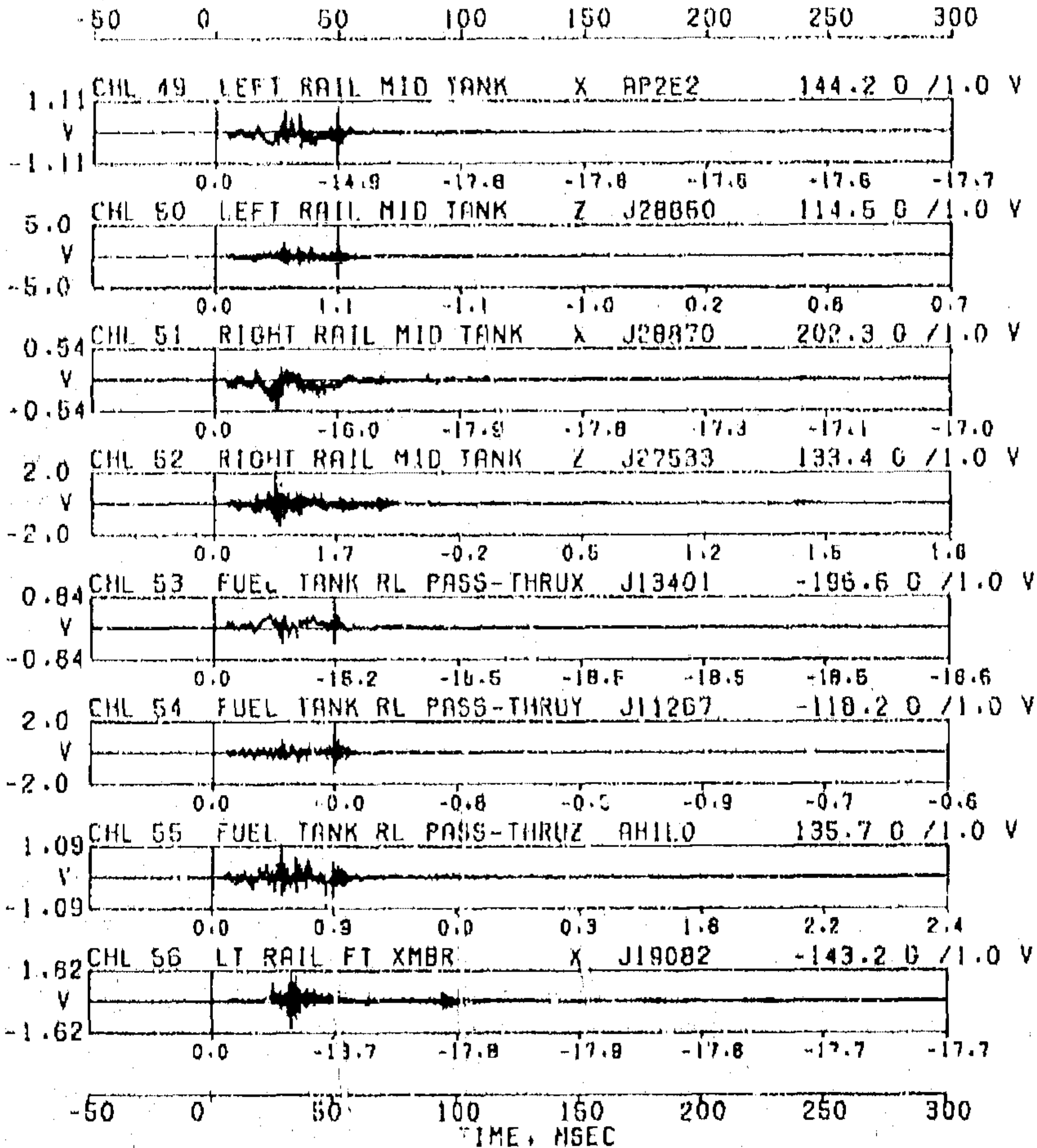
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 TIME, MSEC

NOTE COMPUTED FIRST INTEGRAL VALUES ARE INDICATED BELOW EACH CHANNEL AND BRIDGED DATA IS INDICATED BY A -B-.

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 2902 MV55 301 REAR IMPACT DEVELOPMENT
 IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

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 DATA SET 08/27/99BII
 ERRATA 1



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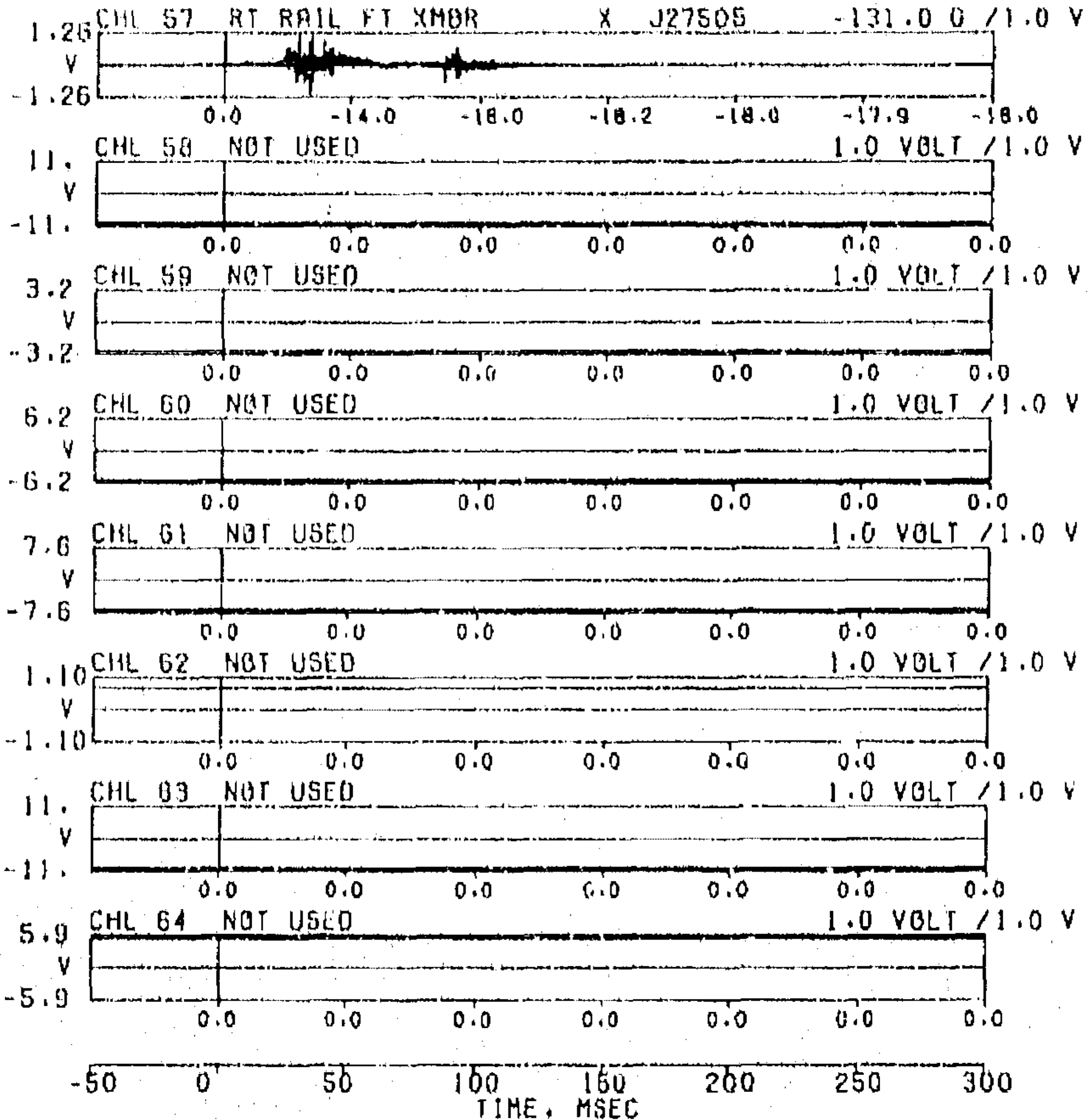
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 AUG 27, 1999

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DATA SET 08/27/99UN
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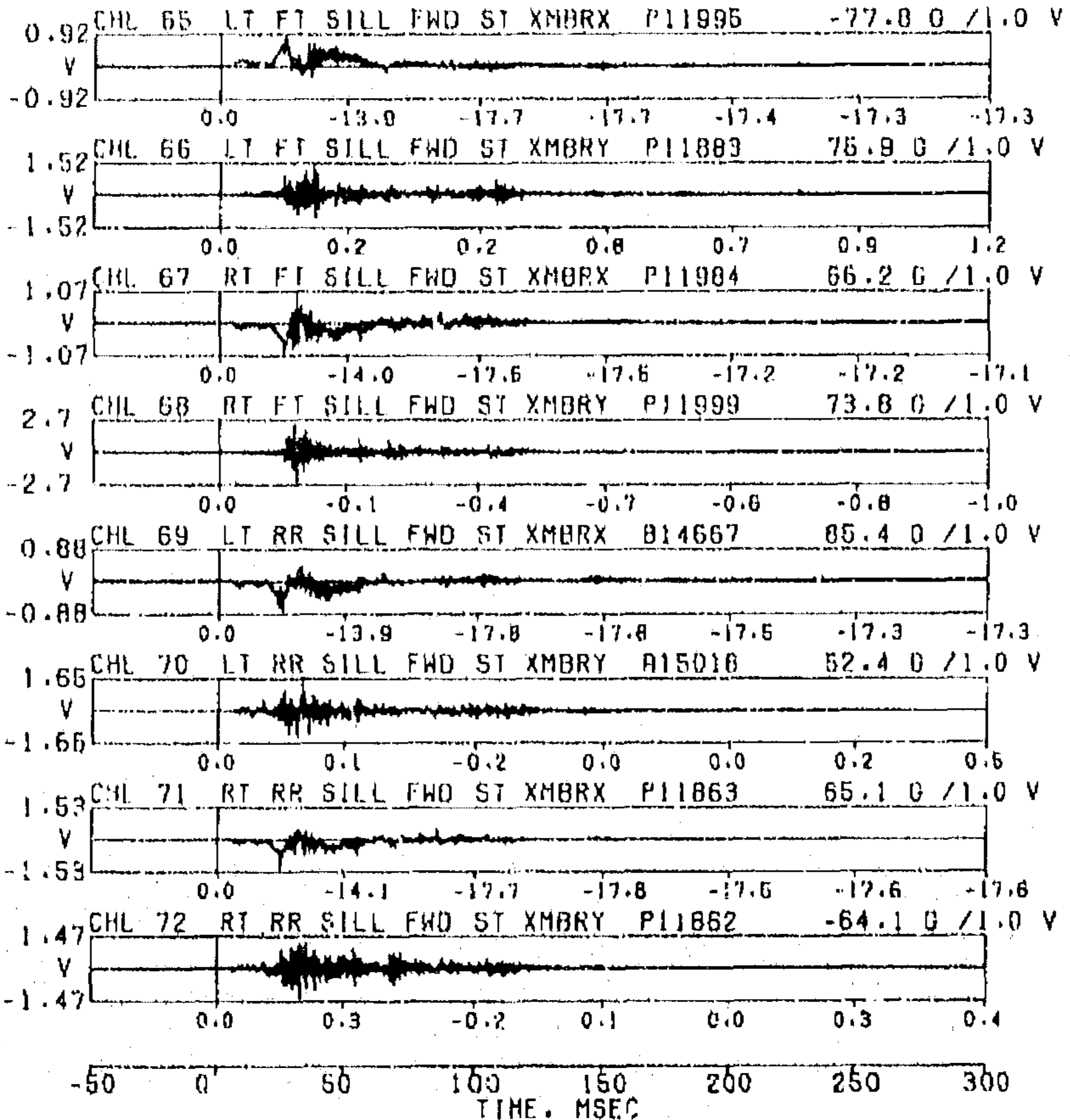
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TRANSDUCER SUMMARY REPORT

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 2002 HVSS 301 REAR IMPACT DEVELOPMENT
 IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

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 DATA SET 08/27/99B0
 ERRATA 1

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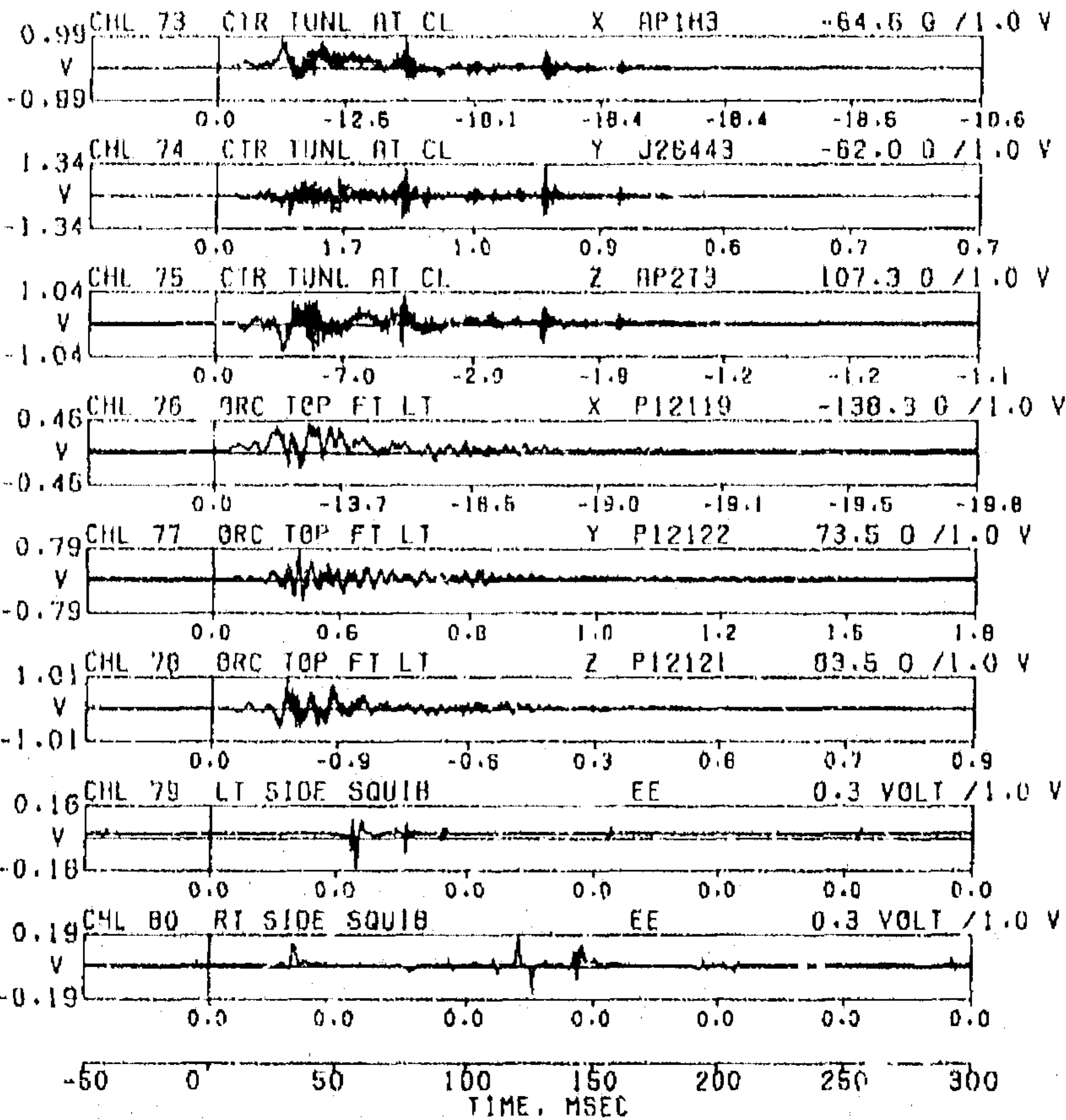
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 2002 MYSS 301 REAR IMPACT DEVELOPMENT
 IMPACT ANALYSIS DEPT. 5320
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DATA SET 08/27/9900
 ERRATA 1

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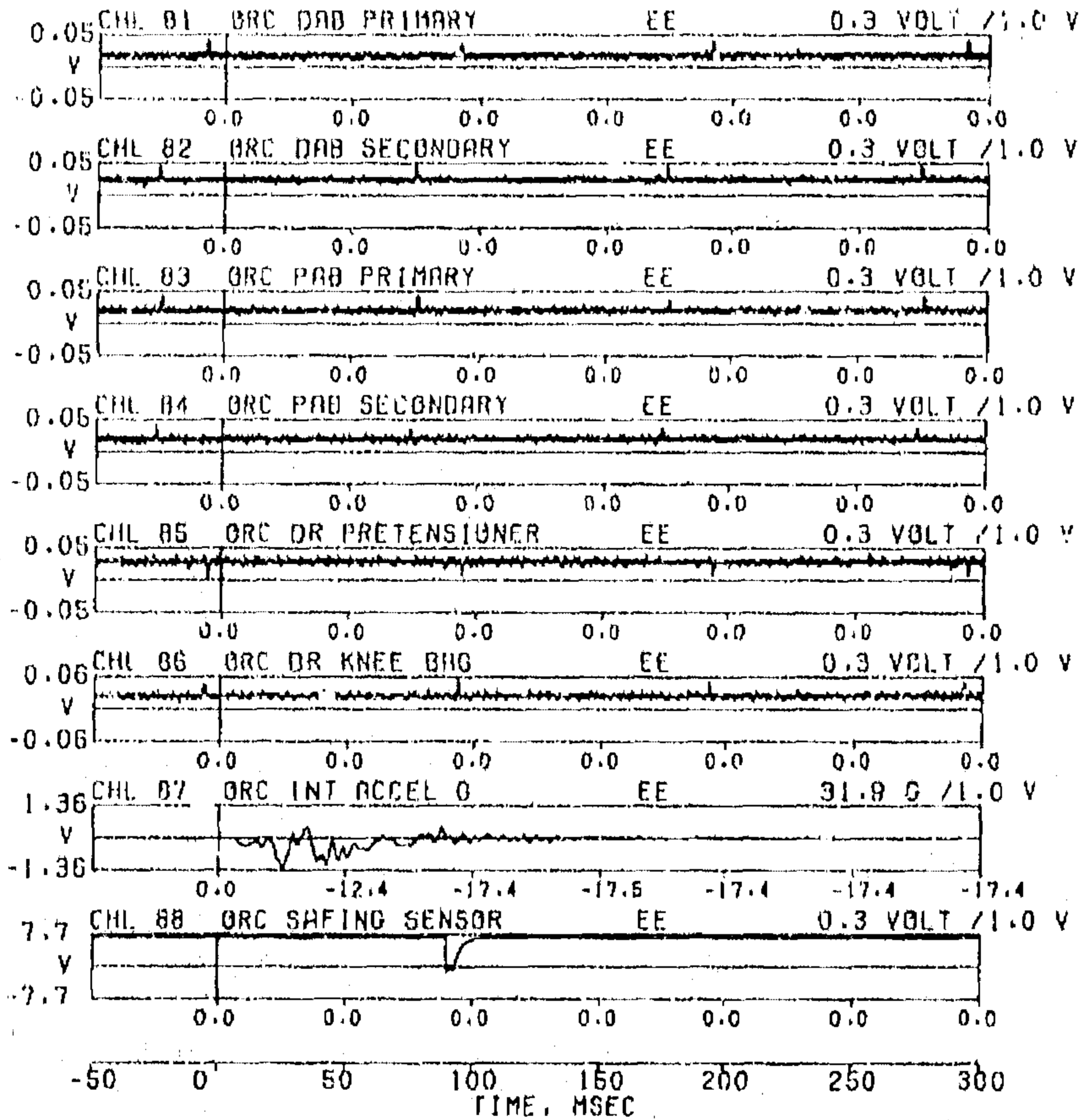
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TRANSDUCER SUMMARY REPORT

VC0774B 30 MPH REAR MOVING BARRIER, KJT-74. ITEM KJ4284R
 2002 MVSS 301 REAR IMPACT DEVELOPMENT
 IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

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 DATA SET 08/27/99BP
 ERRATA 1

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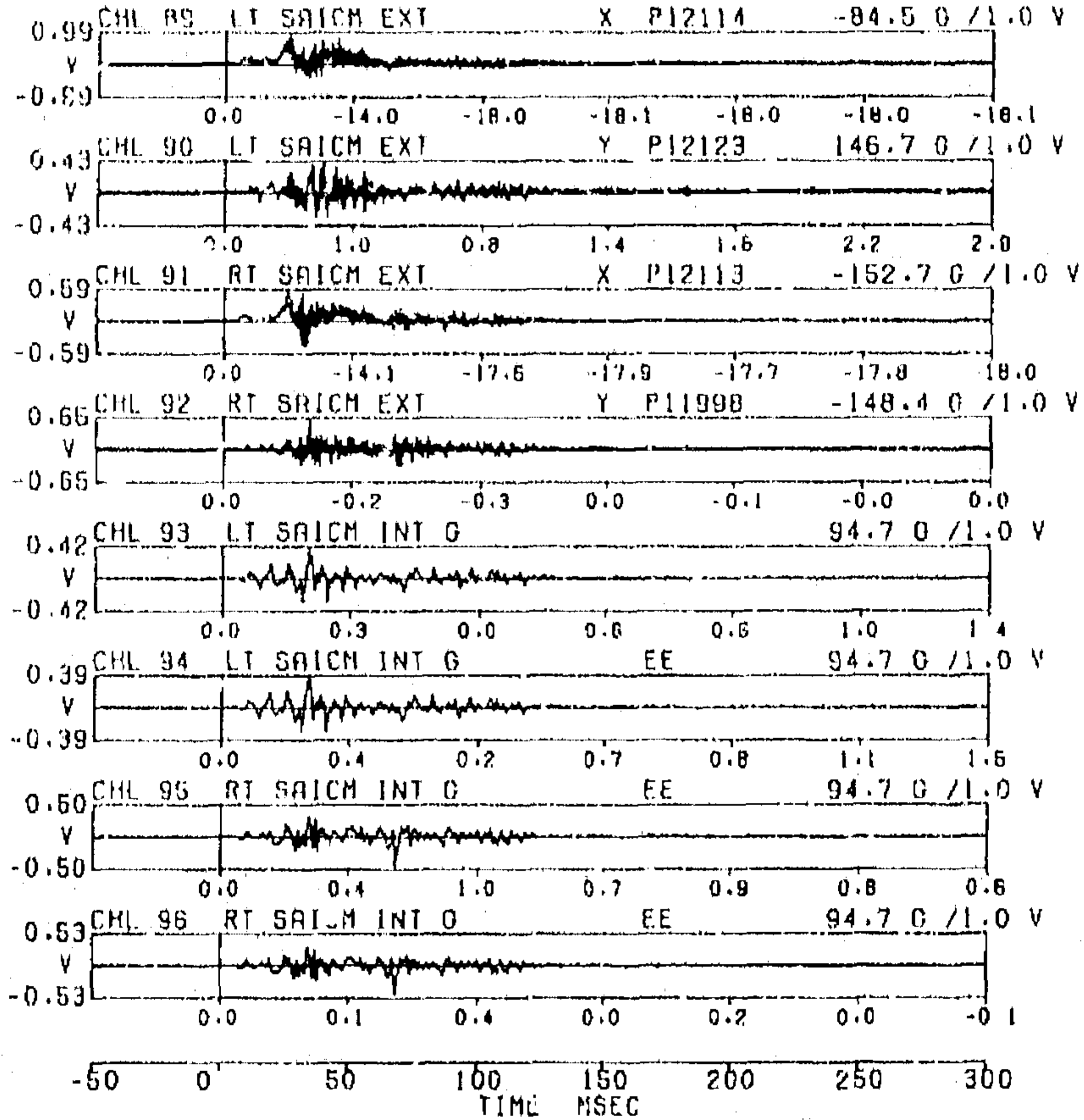
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TRANSDUCER SUMMARY REPORT

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 2002 MY55 301 REAR IMPACT DEVELOPMENT
 IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

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 DATA SET 08/27/99UP
 ERRATA 1

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NOTE COMPUTED FIRST INTEGRAL VALUES ARE INDICATED BELOW EACH CHANNEL AND BRIDGED DATA IS INDICATED BY 0 -8-

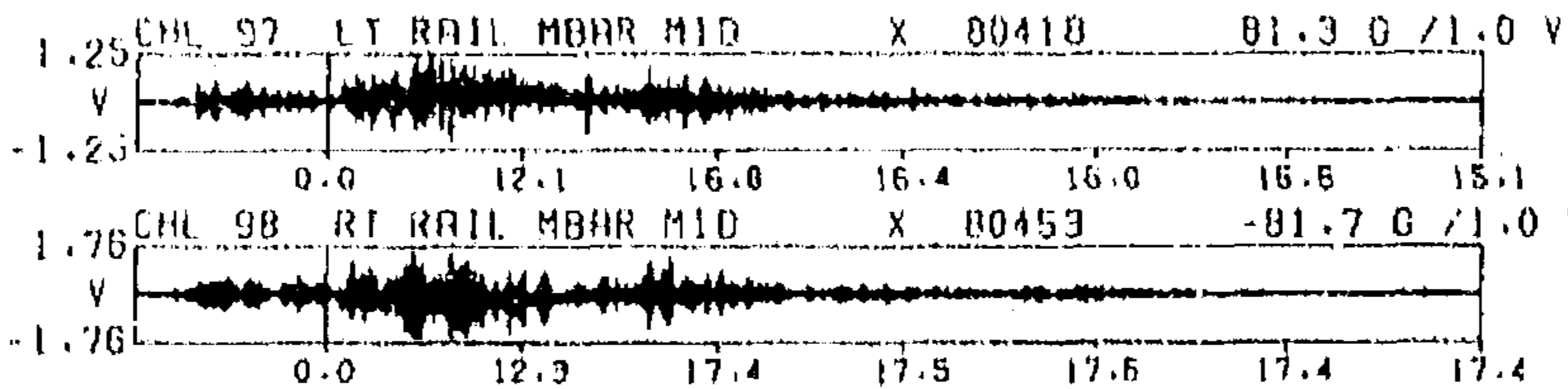
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VEH 7746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM N 14264R
 2002 HY55 301 REAR IMPACT DEVELOPMENT
 IMPACT ANALYSIS DEPT. 5120
 AUG 27, 1999

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DATA SET 08/27/9980
 ERRATA 1

50 0 50 100 150 200 250 300



-50 0 50 100 150 200 250 300
 TIME, MSEC

NOTE COMPUTED FIRST INTEGRAL VALUES ARE INDICATED BELOW EACH CHANNEL AND BRIDGED DATA IS INDICATED BY A -B-.

AVERAGE OF

CHANNEL 065 LT FT SILL FWD ST XMBRX P11995
CHANNEL 067 RT FT SILL FWD ST XMBRX P11984
CHANNEL 068 LT RR SILL FWD ST XMBRX 814867
CHANNEL 071 RT RR SILL FWD ST XMBRX P11863

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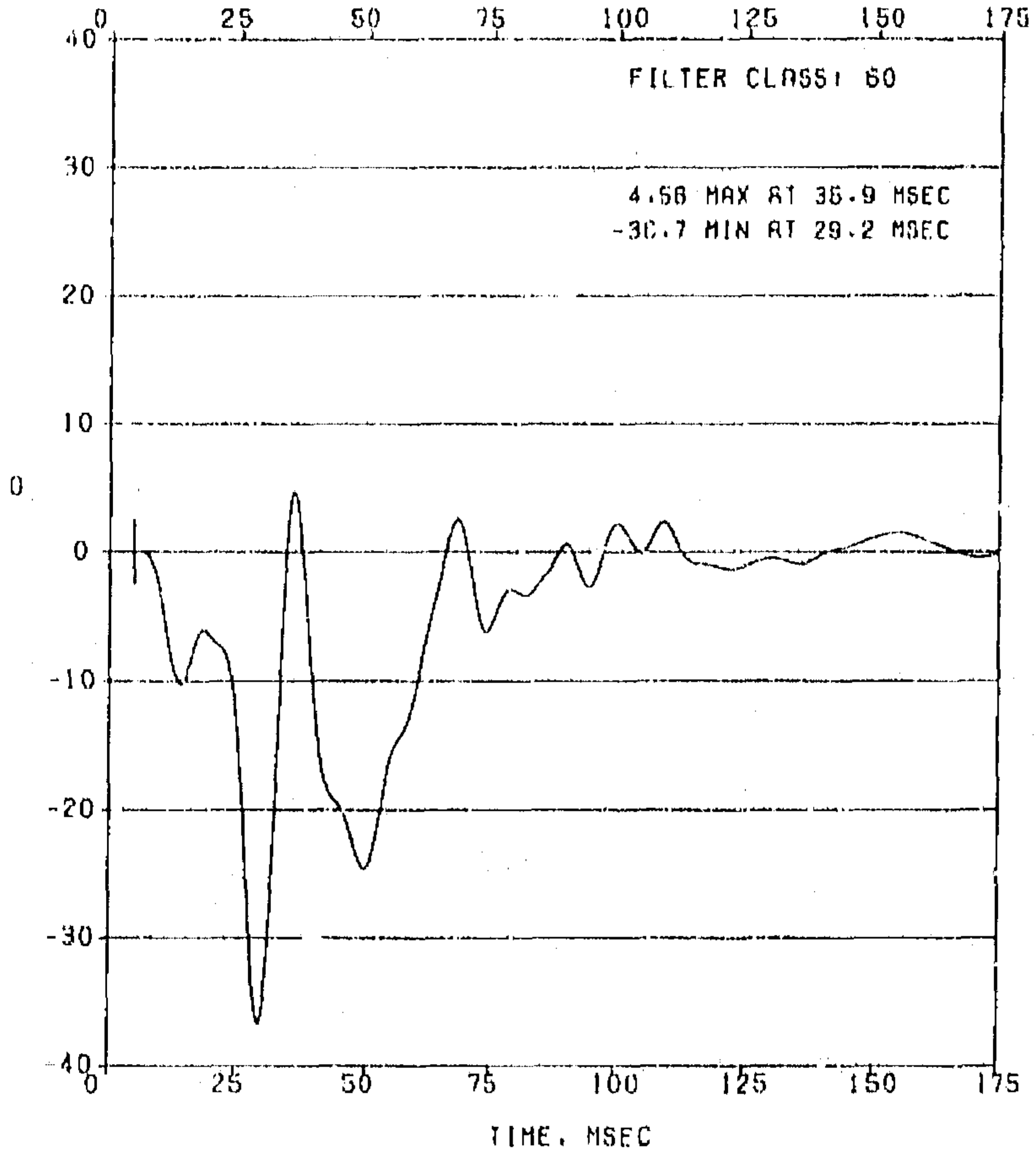
IMPACT ANALYSIS DEPT. 5320

DATA SET 08/27/9980

AUG 27, 1999

ERRATA

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AVERAGE OF

CHANNEL 065 LT FT SILL FWD ST XMRX P11995
CHANNEL 067 RT FT SILL FWD ST XMRX P11984

FILTER TYPE: SAE J2118/90 OC C60(TPF-R) EFF 3/24/86

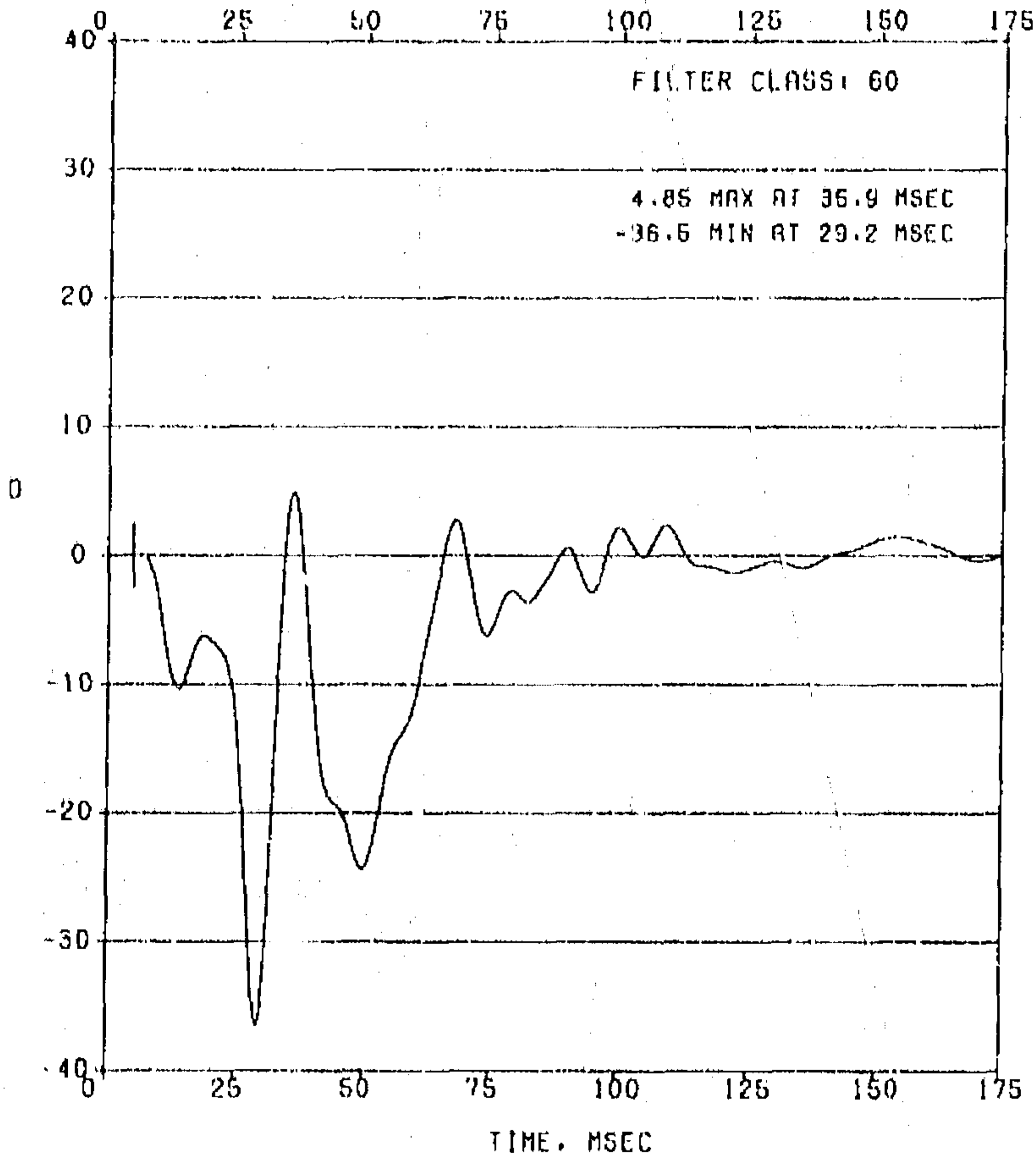
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AUG 27, 1999

ERRATA

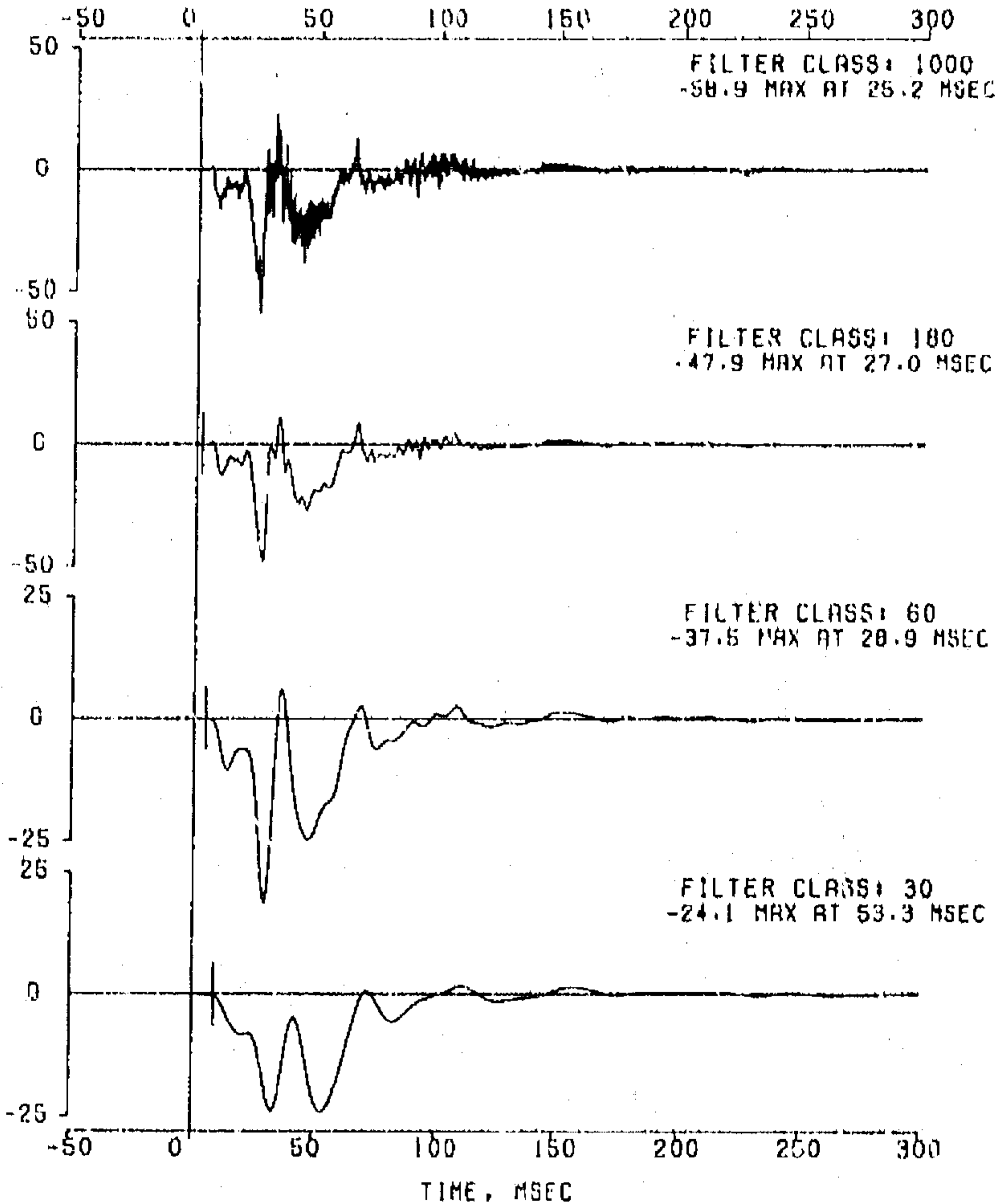
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VC07746 30 MPH REAR MOVING BARRIER, KJ1-74, ITEM KJ4264R
2002 HY55 301 REAR IMPACT DEVELOPMENT
CHANNEL 001 LEFT FRONT SILL X 11865
FILTER TYPE: OBUAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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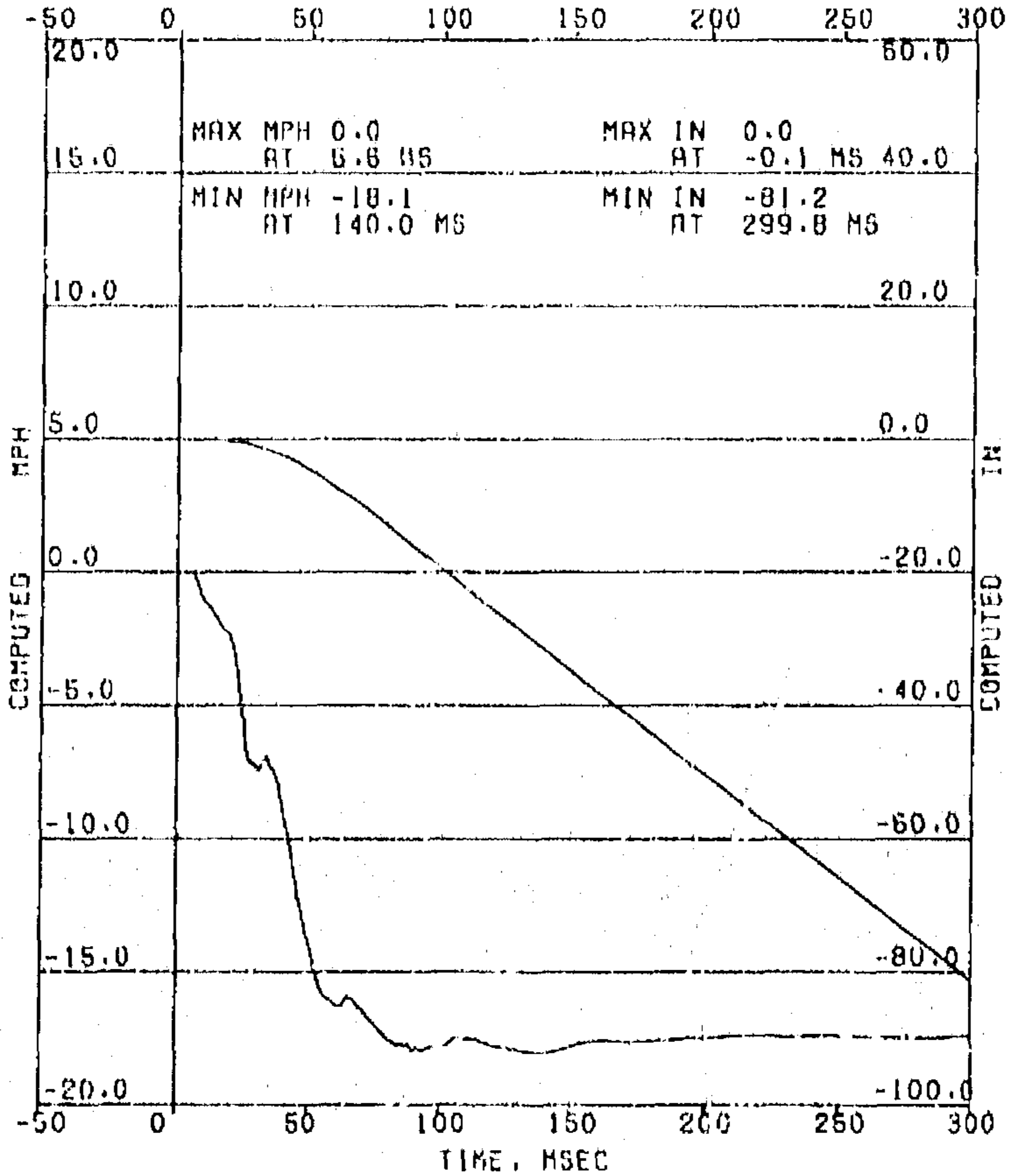
DATA SET 08/27/99BK
ERRATA 1



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IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 08/27/99BK
 ERRATA 1

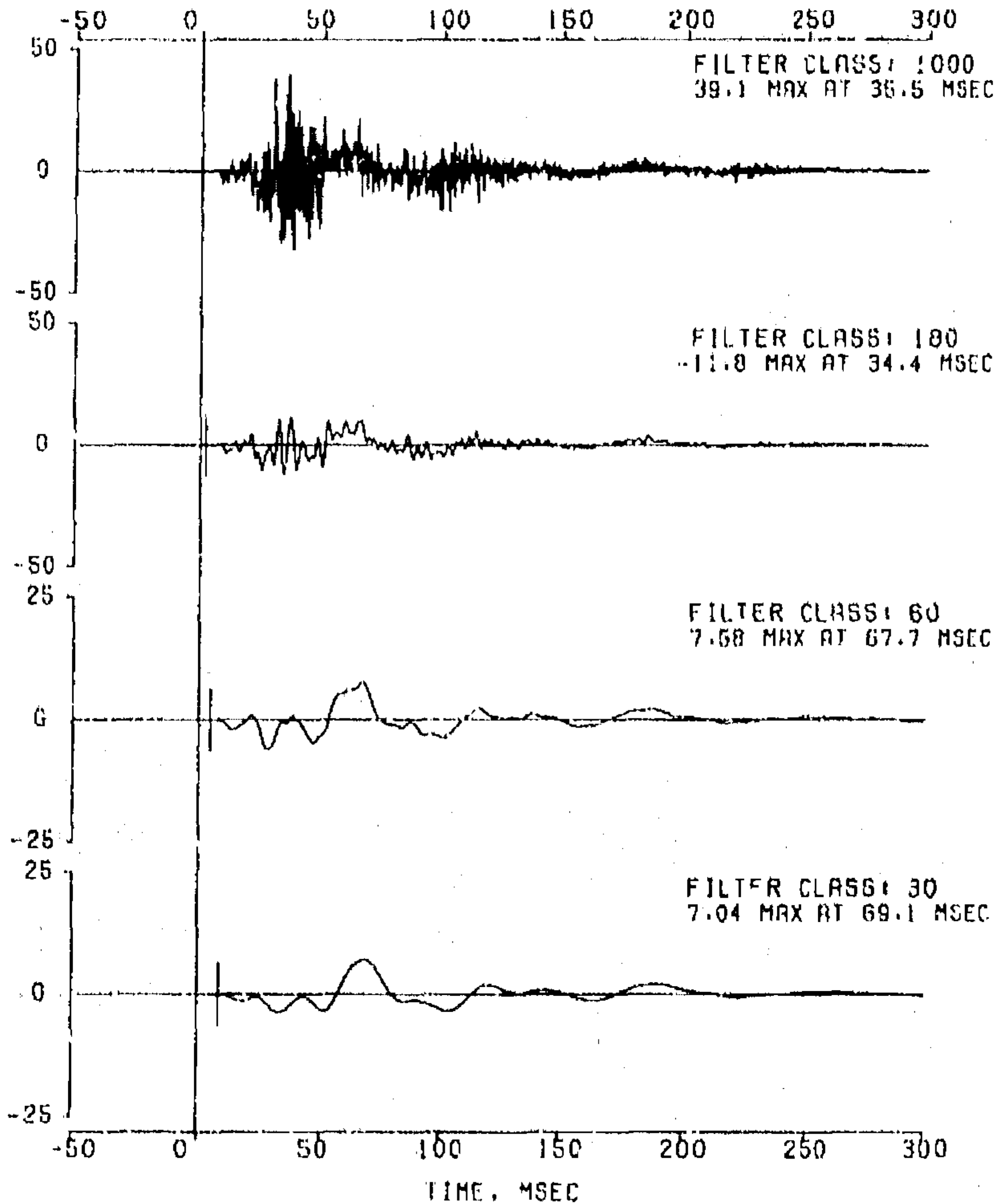


COMPUTED MPH
 COMPUTED IN

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2002 NVSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 002 LEFT FRONT SILL 7 J11957
FILTER TYPE: 0800S-111 RESPONSE CORRECTION, CLASS 1000 FILTER, 1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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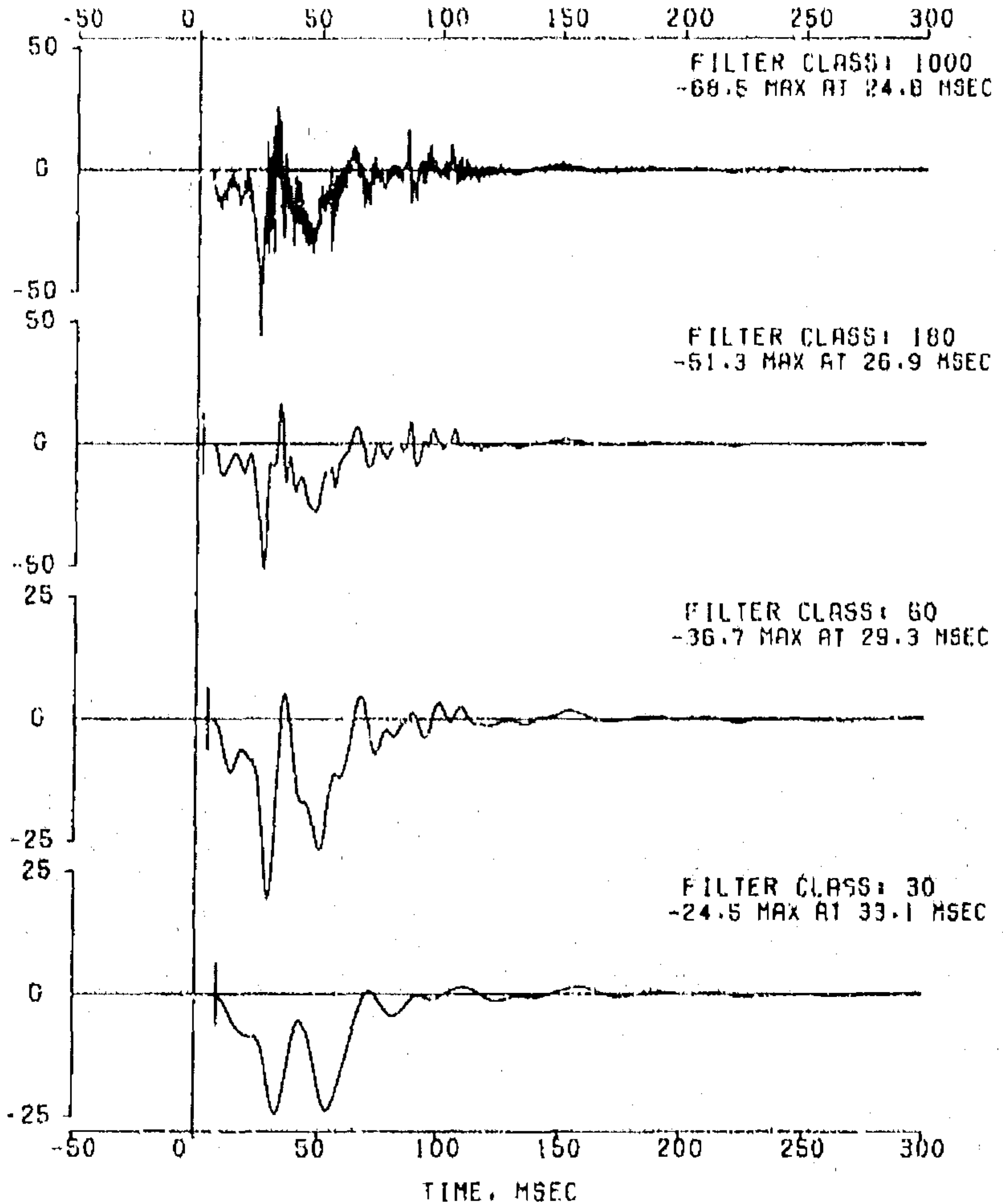
DATA SET 08/27/99BK
ERRATA 1



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2002 PVS5 301 REAR IMPACT DEVELOPMENT
CHANNEL 003 RIGHT FRONT SILL X J27027
FILTER TYPE: 080AS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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DATA SET 08/27/99DK
ERRATA 1



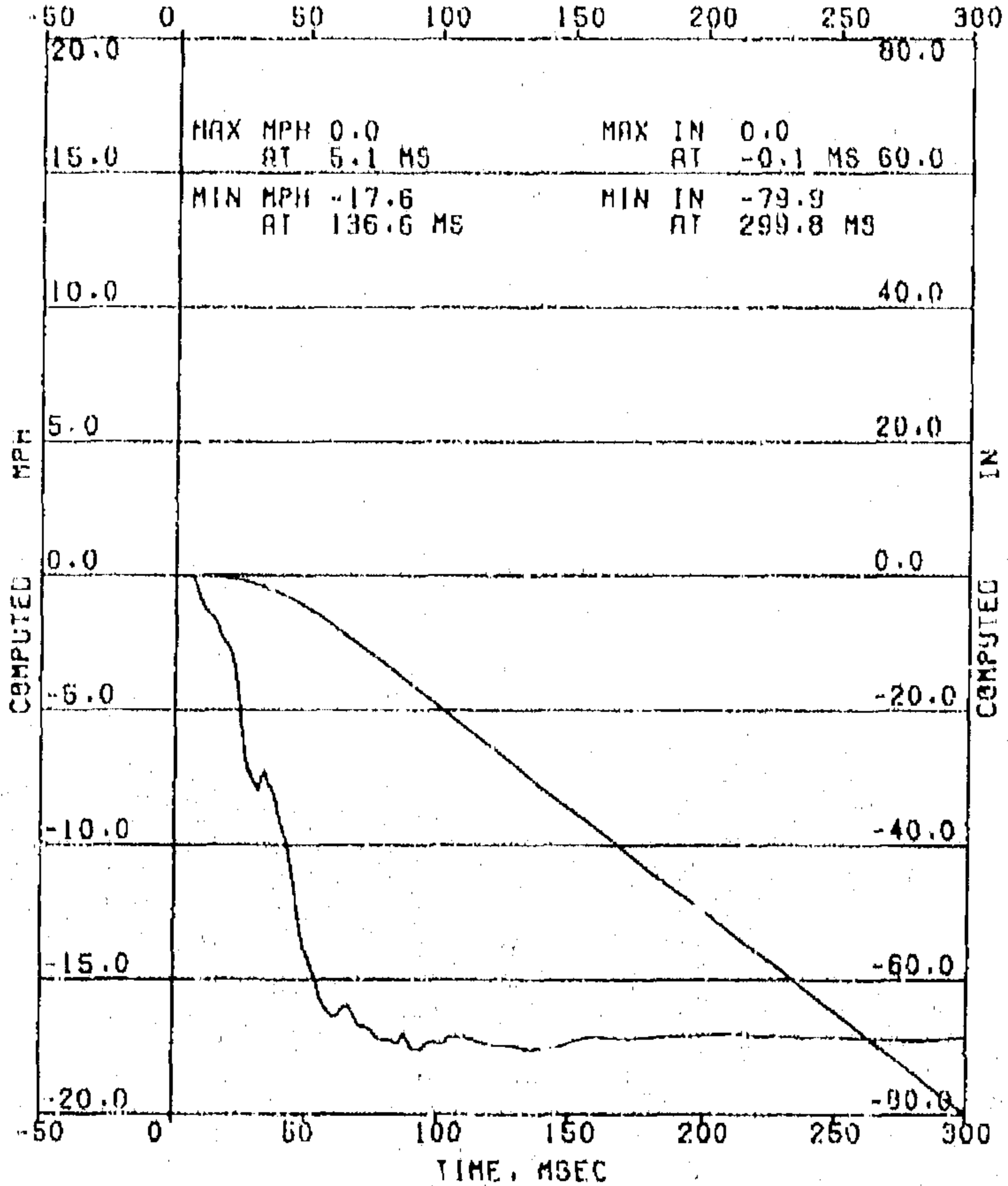
VC07740 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4284R
2002 HYSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 003 RIGHT FRONT SILL X J27027

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FILTER TYPE: 000AS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

DATA SET 08/27/99BK
ERRATA 1

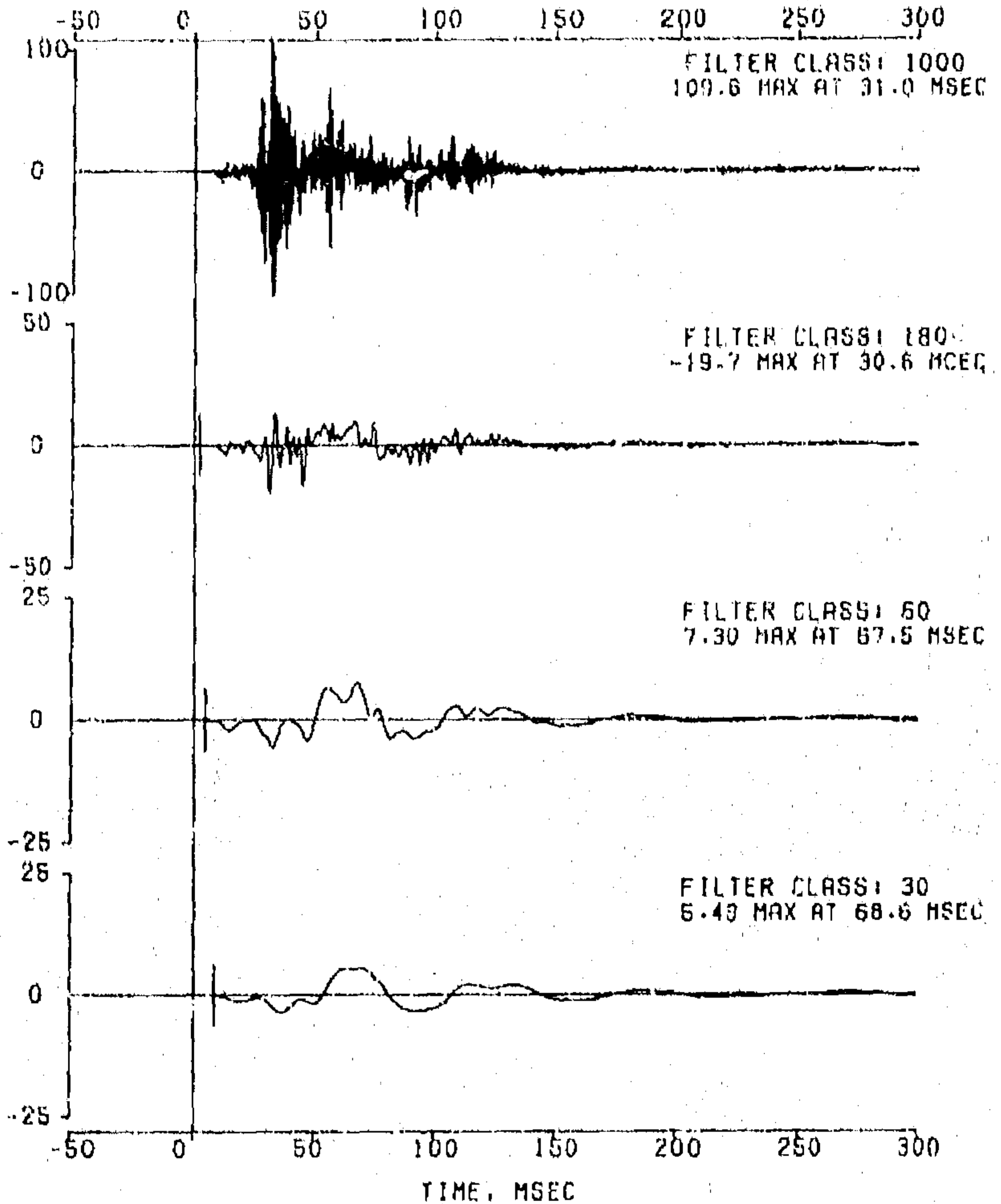


COMPUTED MPH
COMPUTED IN

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2002 MYSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 004 RIGHT FRONT BILL 7 J10815
FILTER TYPE: 000AS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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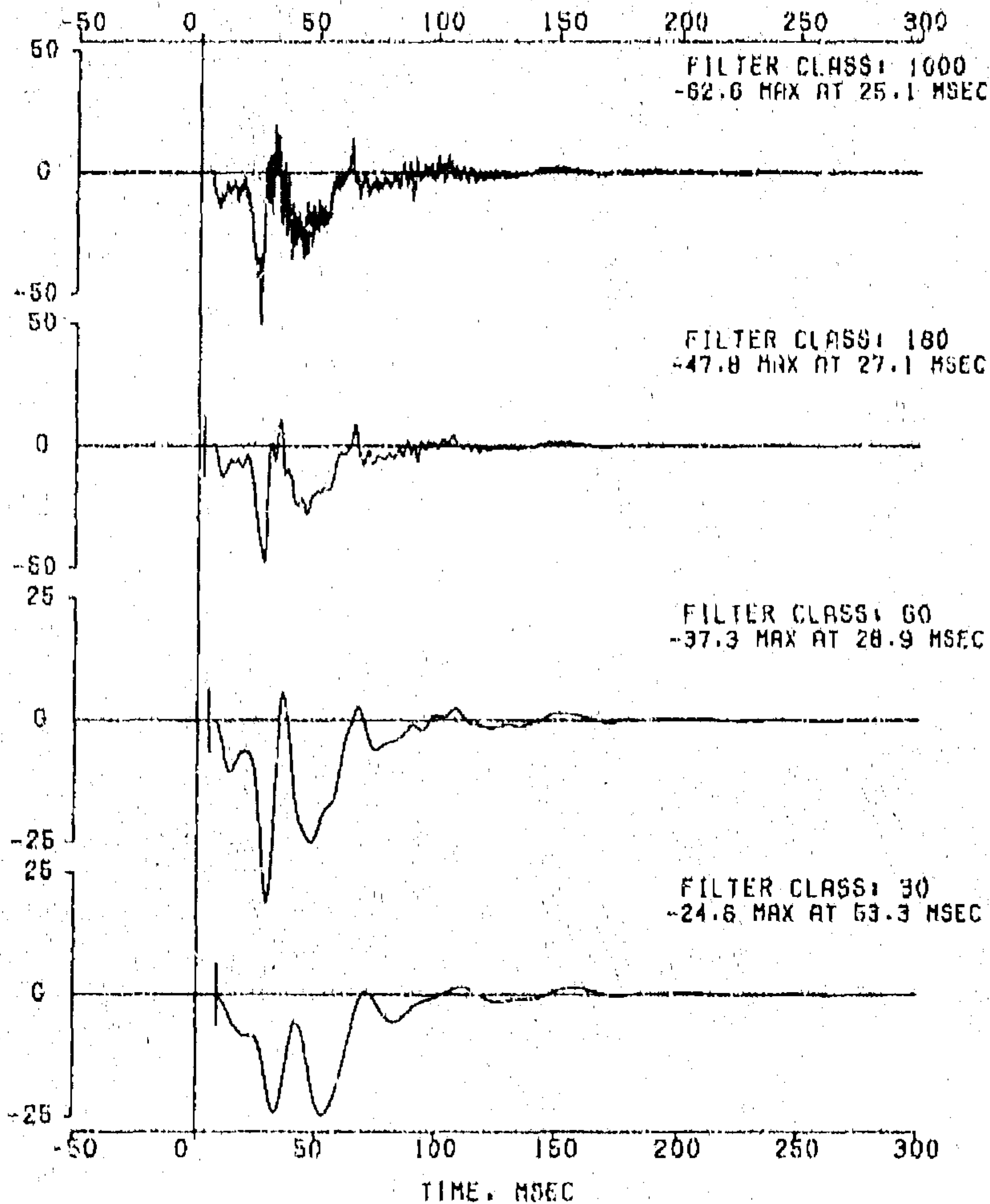
DATA SET 08/27/89BK
ERRATA 1



VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4284R
2002 MY99 301 REAR IMPACT DEVELOPMENT
CHANNEL 005 LEFT MID SILL X J27183
FILTER TYPE: QBD95-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1.650)
IMPACT ANALYSIS DEPT. 9320
AUG 27, 1999

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DATA SET 08/27/99DK
ERRATA 1



VC0774N 3D MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264K
 2002 MYSS 301 REAR IMPACT DEVELOPMENT
 CHANNEL 005 LEFT MID SILL

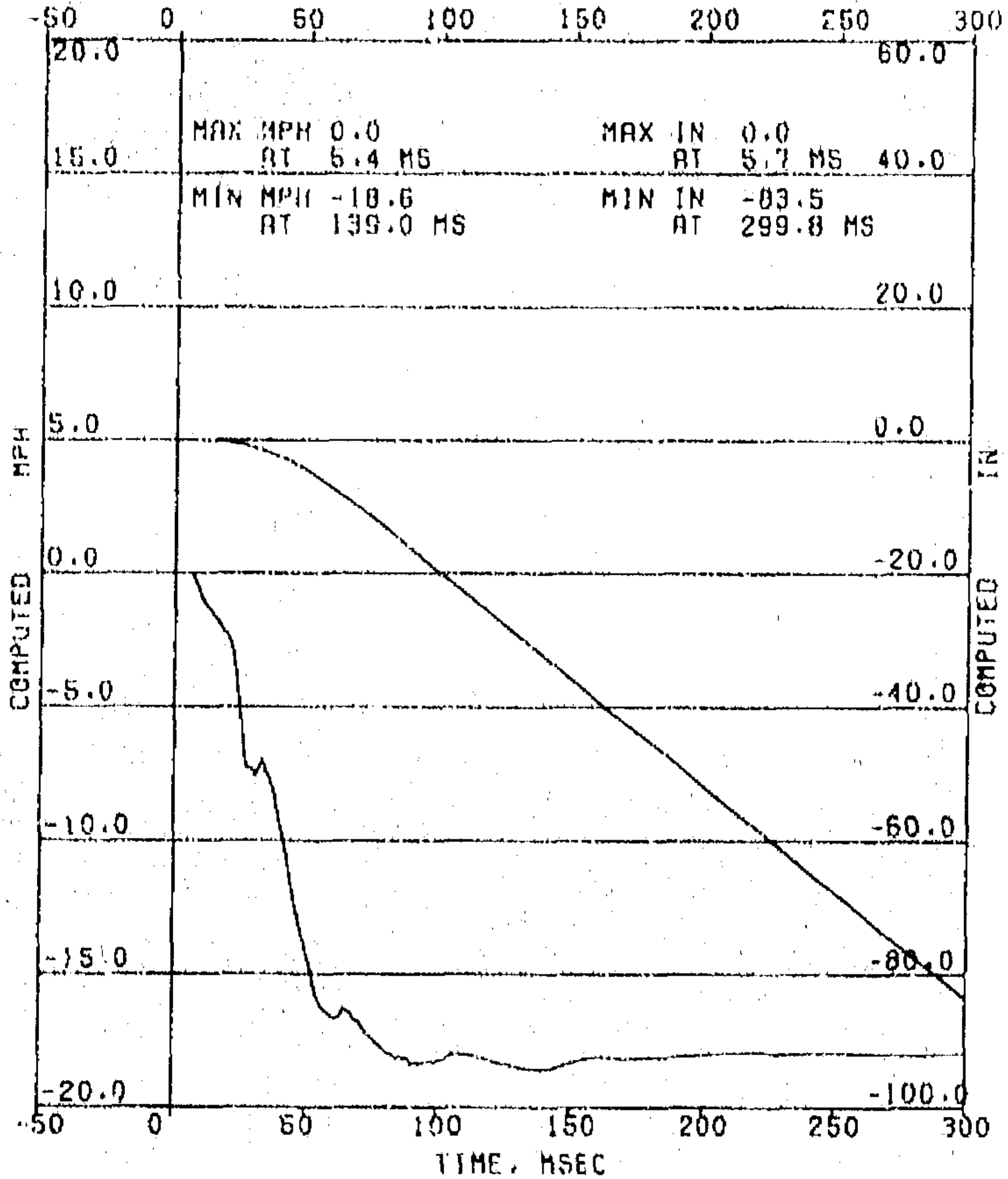
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K J27183

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1660)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 08/27/99BK
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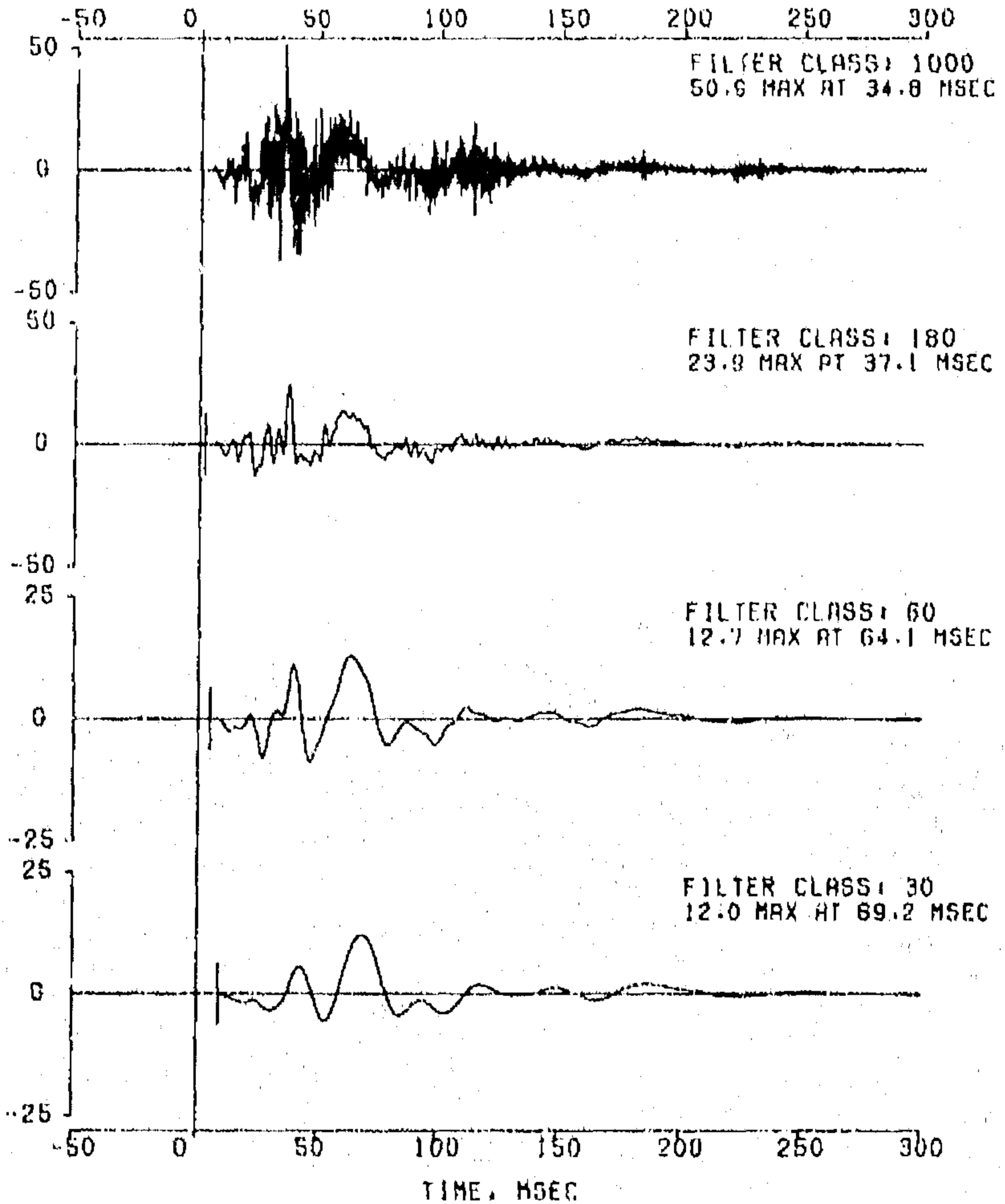


COMPUTED MPH
 COMPUTED IN

VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM NJ4264R
2002 MYSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 006 LEFT MID SILL Z J15578
FILTER TYPE: 000NS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1660)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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DATA SET 08/27/99DK
ERRATA 1



VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4204R

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0002 HVSS 301 REAR IMPACT DEVELOPMENT

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CHANNEL 007 RIGHT MID SILL X J2840E

FILTER TYPE: 0808S-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1660)

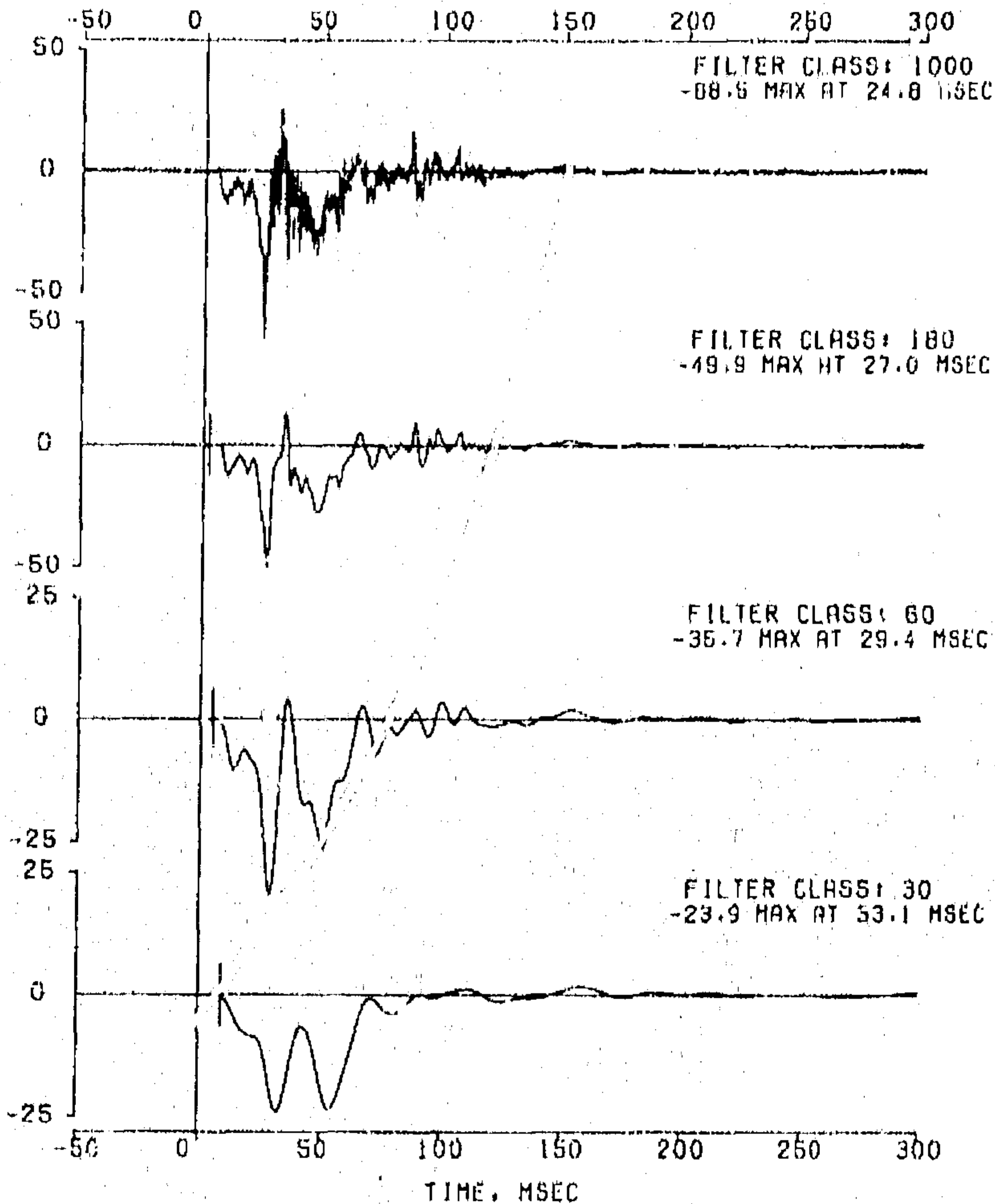
IMPACT ANALYSIS DEPT. 5320

DATA SET 08/27/99BK

AUG 27, 1999

ERRATA

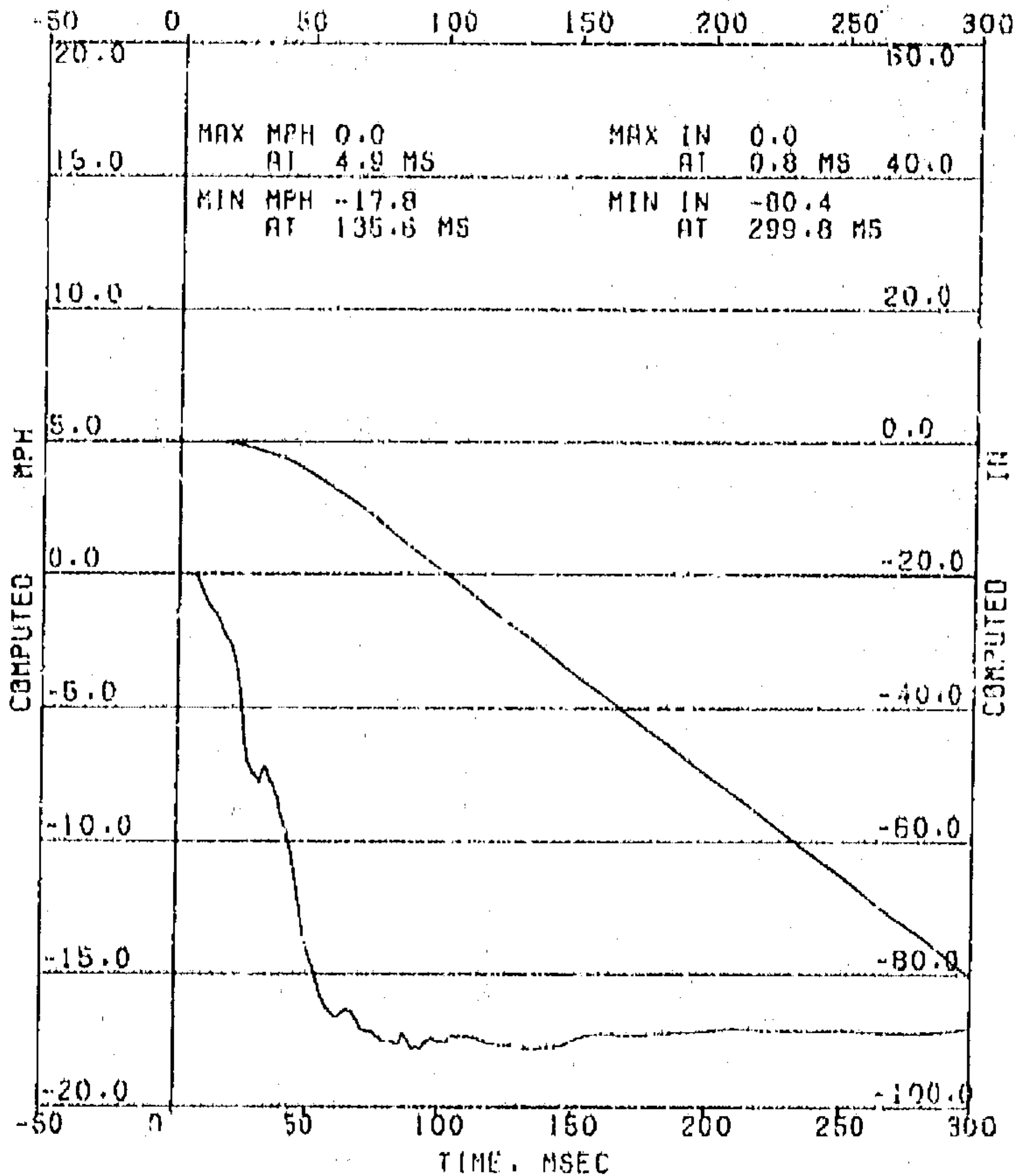
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FILTER TYPE: 080AS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
AUG 27, 1993

DATA SET 08/27/93BK
ERRATA 1

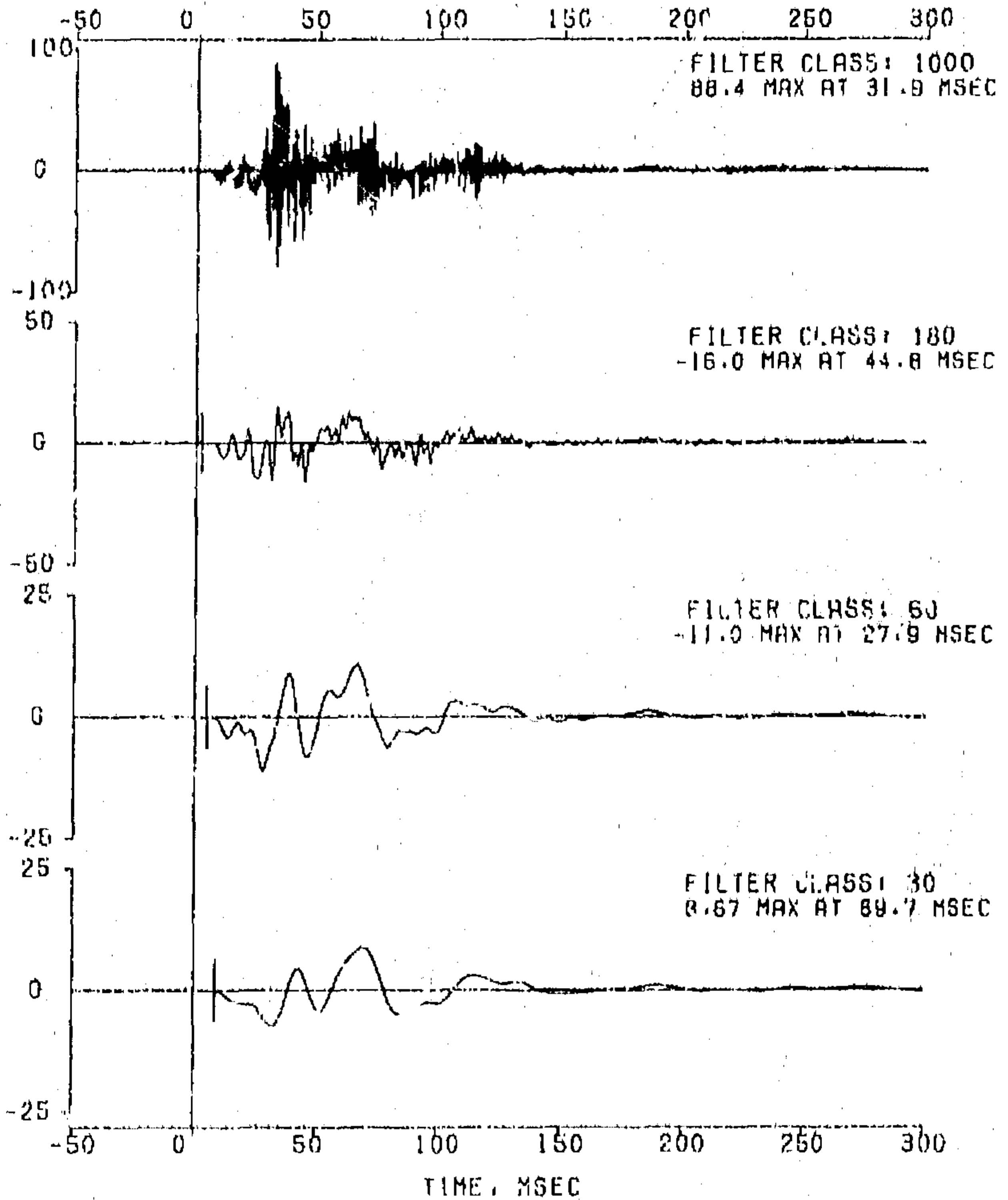


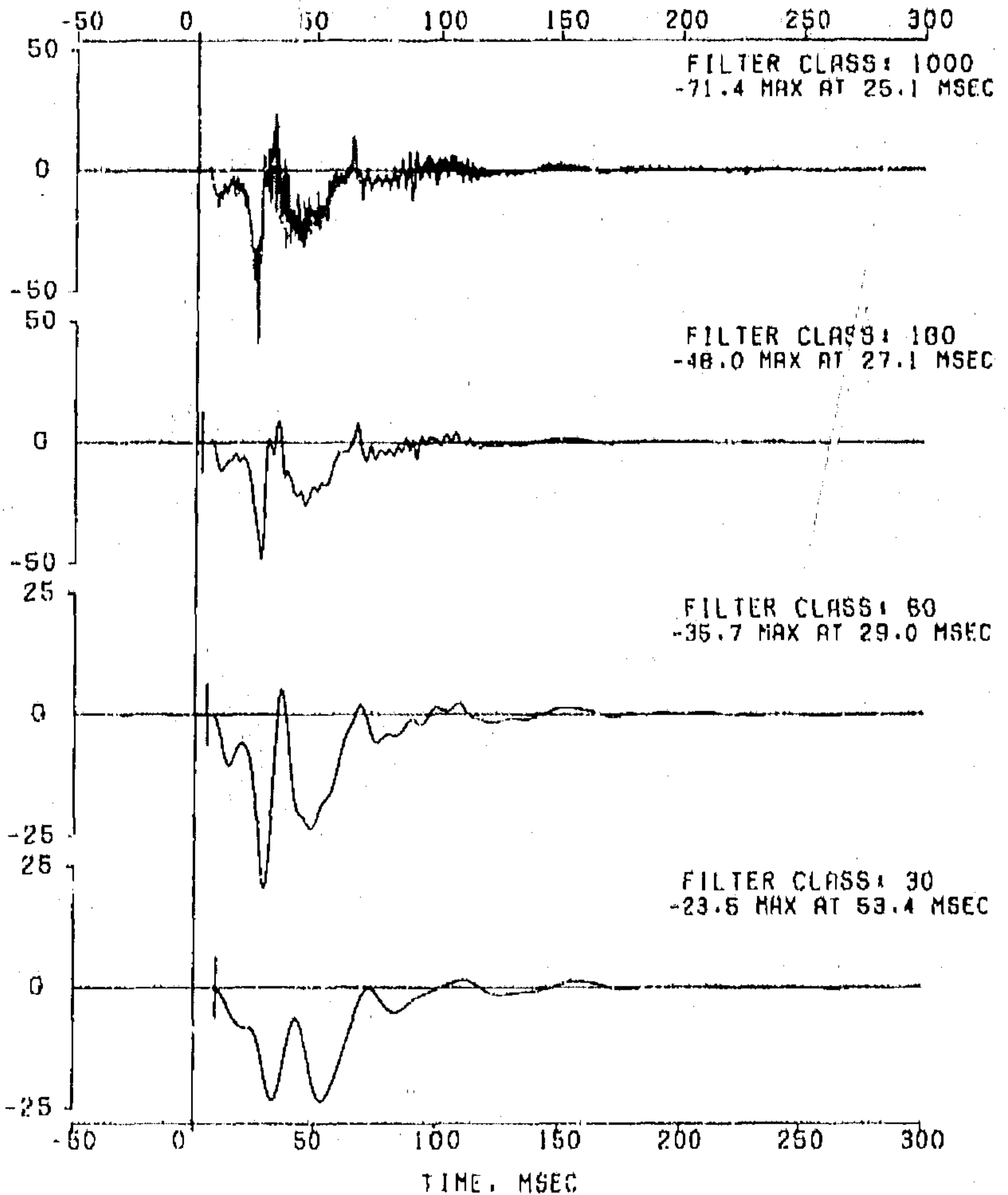
COMPUTED MPH
COMPUTED IN

VC07746 30 MPH REAR MOVING BARRIER, RJT-74, ITEM KJ4264R
2002 MYSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 008 RIGHT MID SILL Z J26790
FILTER TYPE: 08DAS-111 RESPONSE CORRECTION, CLASS 1000, FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
RUD 27,1999

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DATA SET 08/27/99BK
ERRATA 1

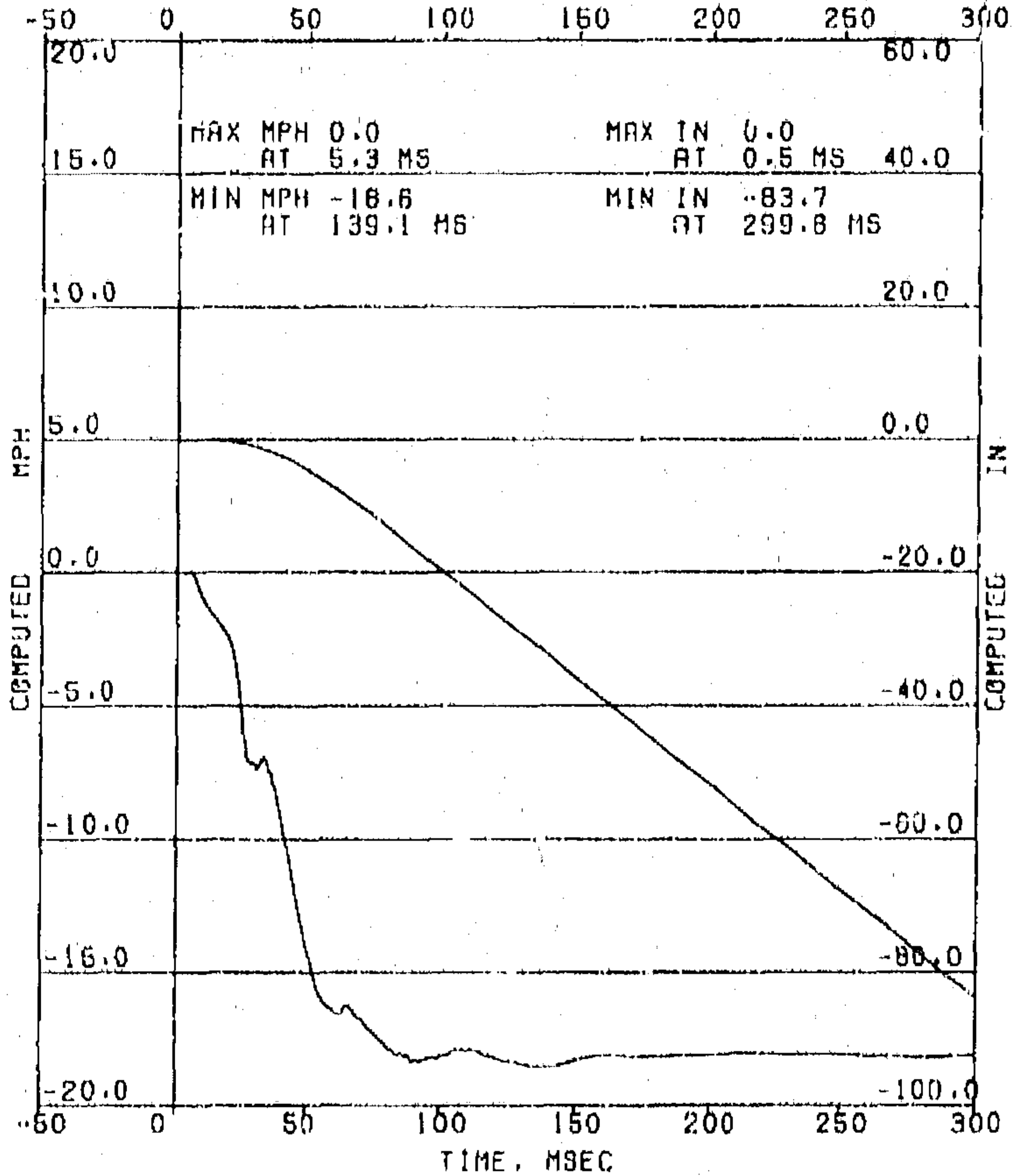




FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

DATA SET 08/27/99BK
ERRATA 1

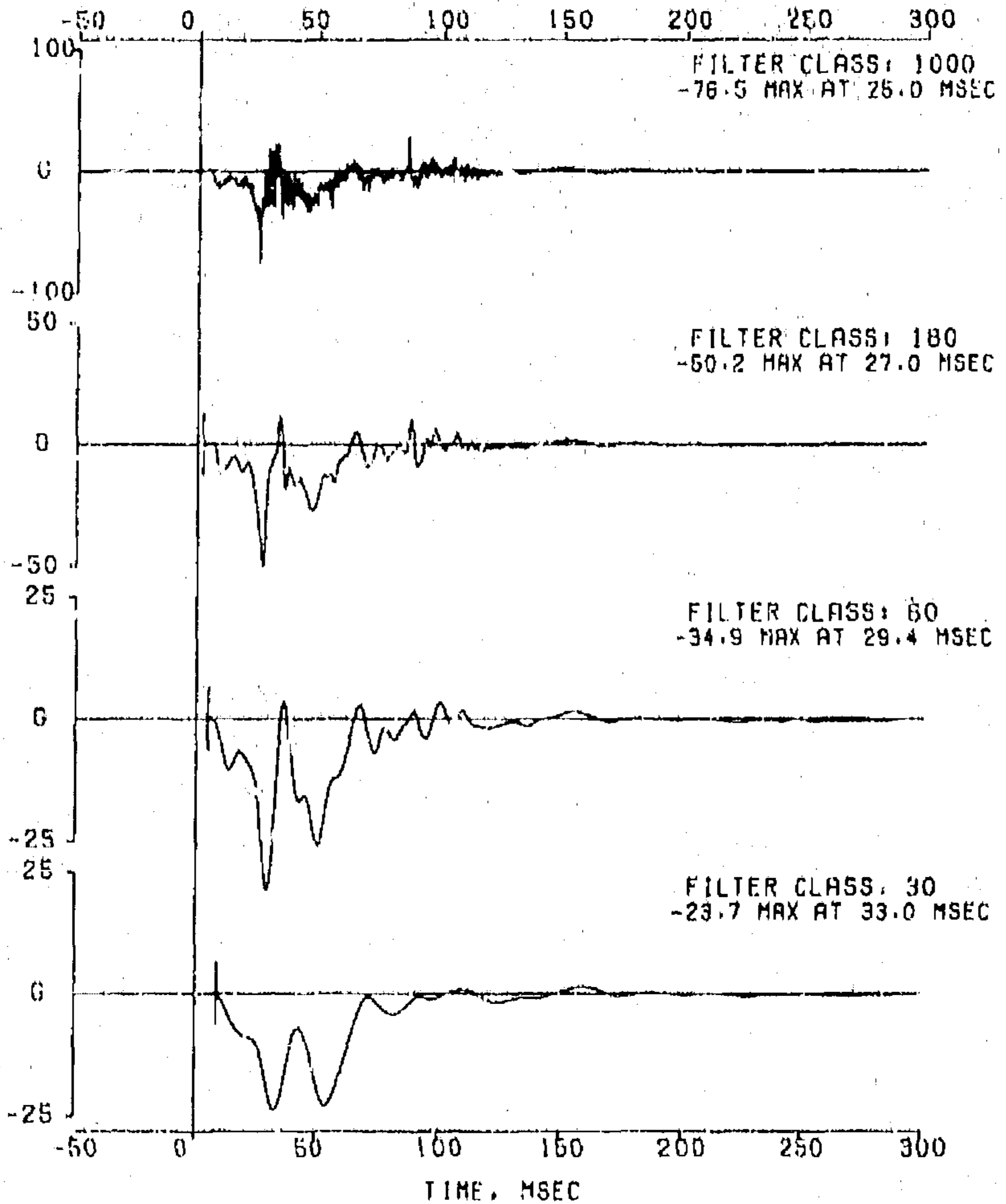


COMPUTED MPH
COMPUTED IN

VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ264R
2002 MYSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 010 RIGHT REAR SILL X J27537
FILTER TYPE: 380AS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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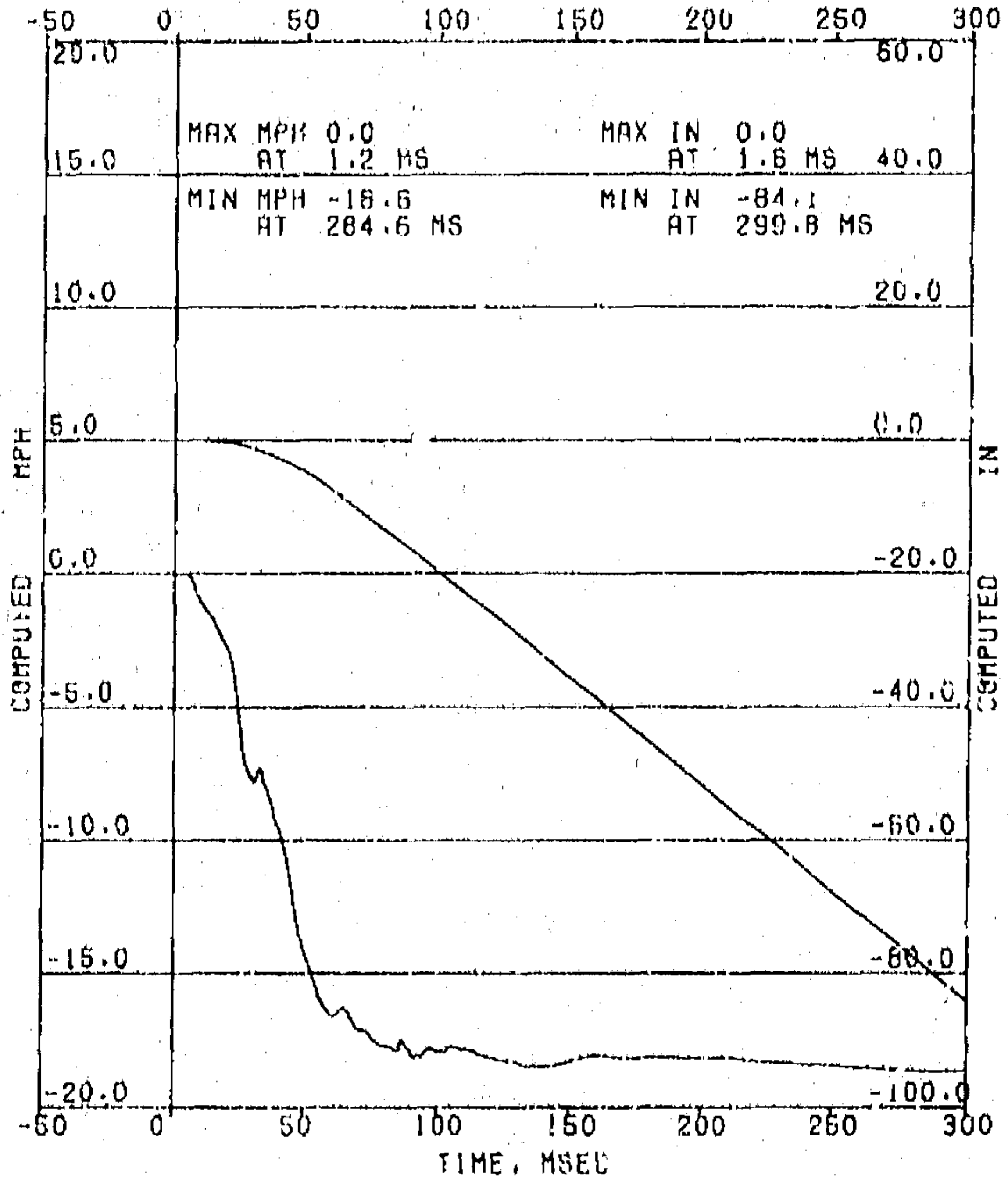
DATA SET 08/27/990K
ERRATA 1



FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1660)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

DATA SET 08/27/99BK
ERRATA 1

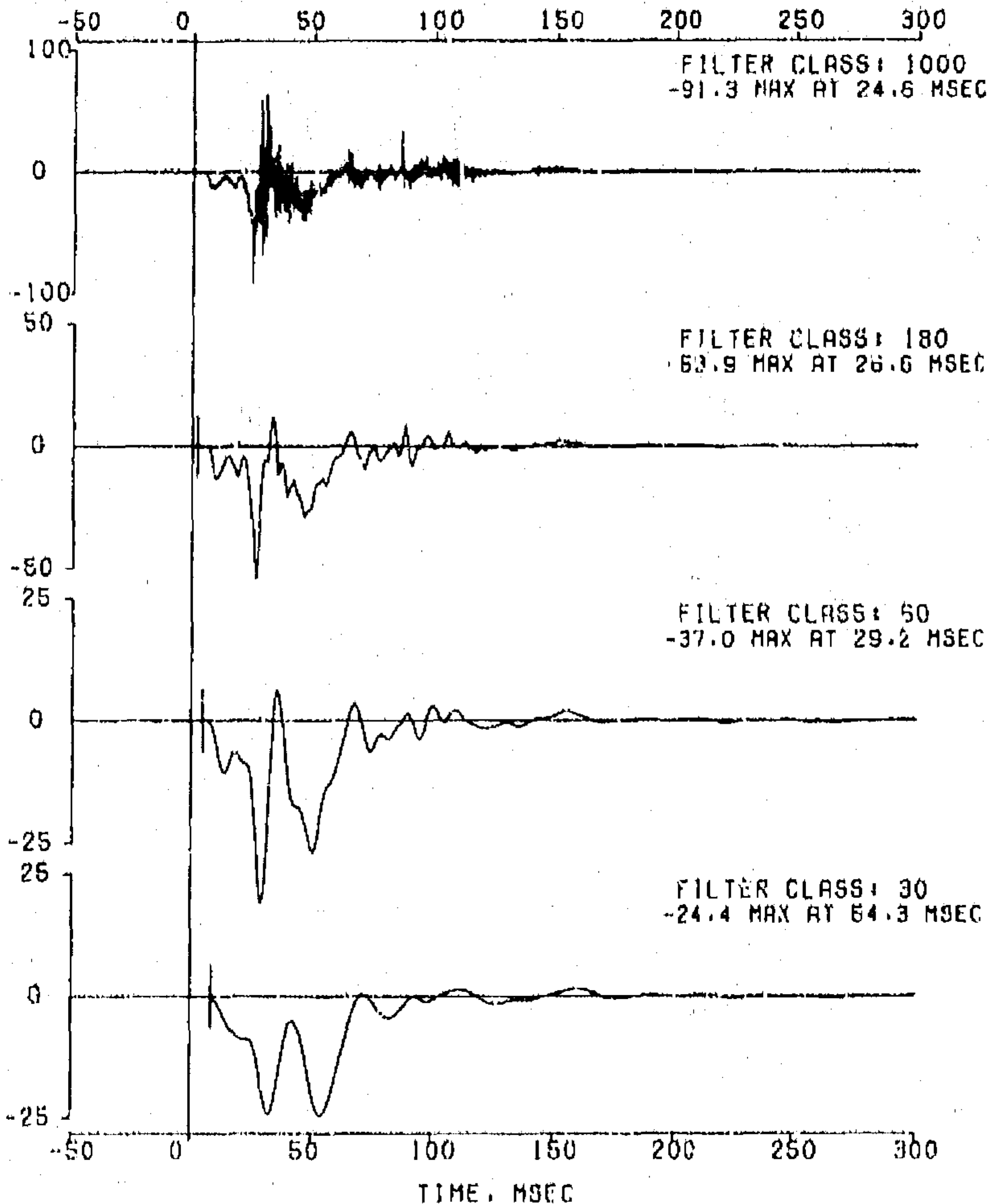


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COMPUTED IN

VC07748 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
2002 MYSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 01: RT RAIL TRANS XM9R X J10596
FILTER TYPE: OBDAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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DATA SET 08/27/99BK
ERRATA 1



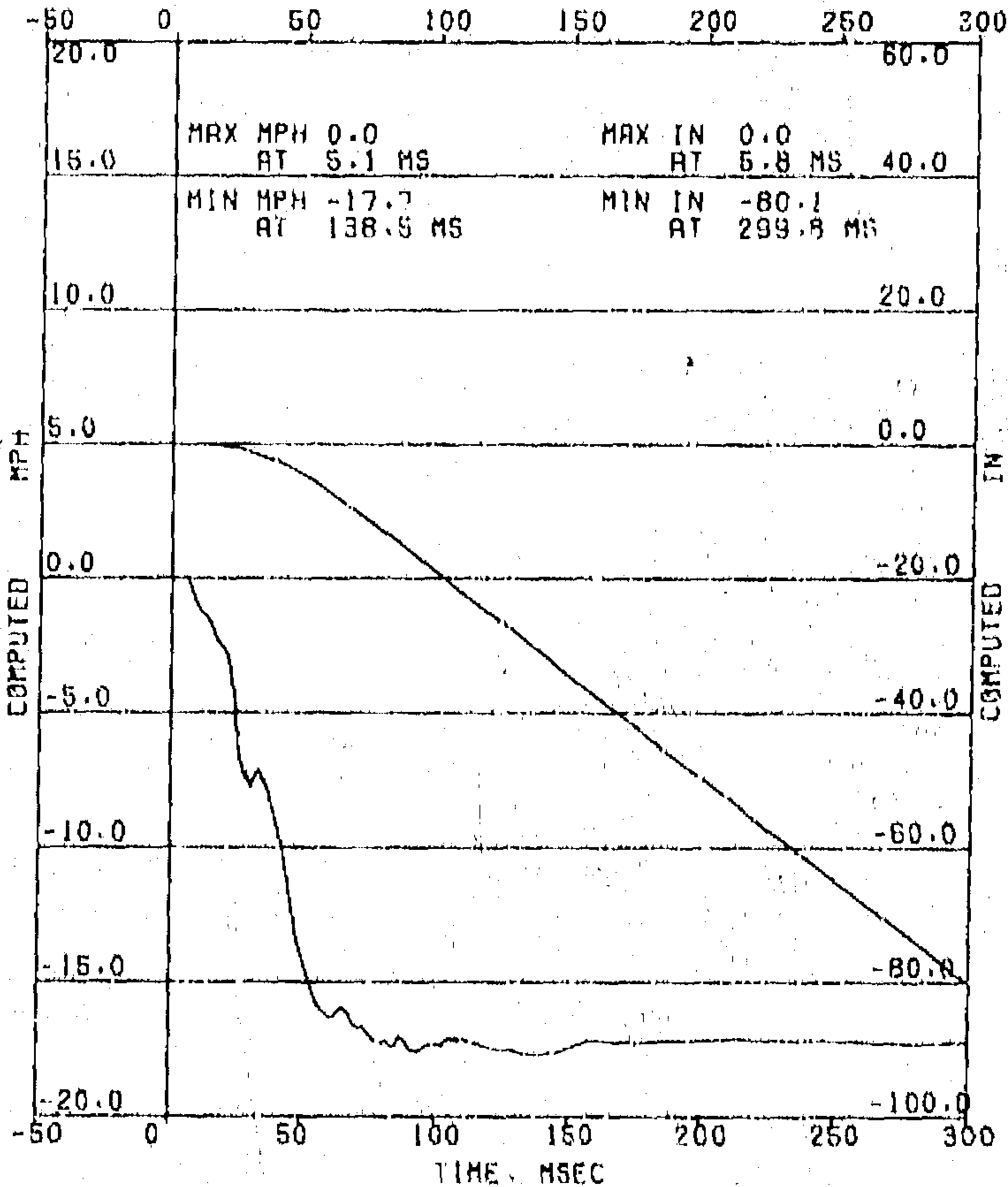
VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4284R
2002 HVSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 011 RI RAIL TRANS XMBR X J10596

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FILTER TYPE: OBDAS-111 RESPON CORRECTION, CLASS 1000 FILTER(1650)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

DATA SET 08/27/99BK
ERRATH 1

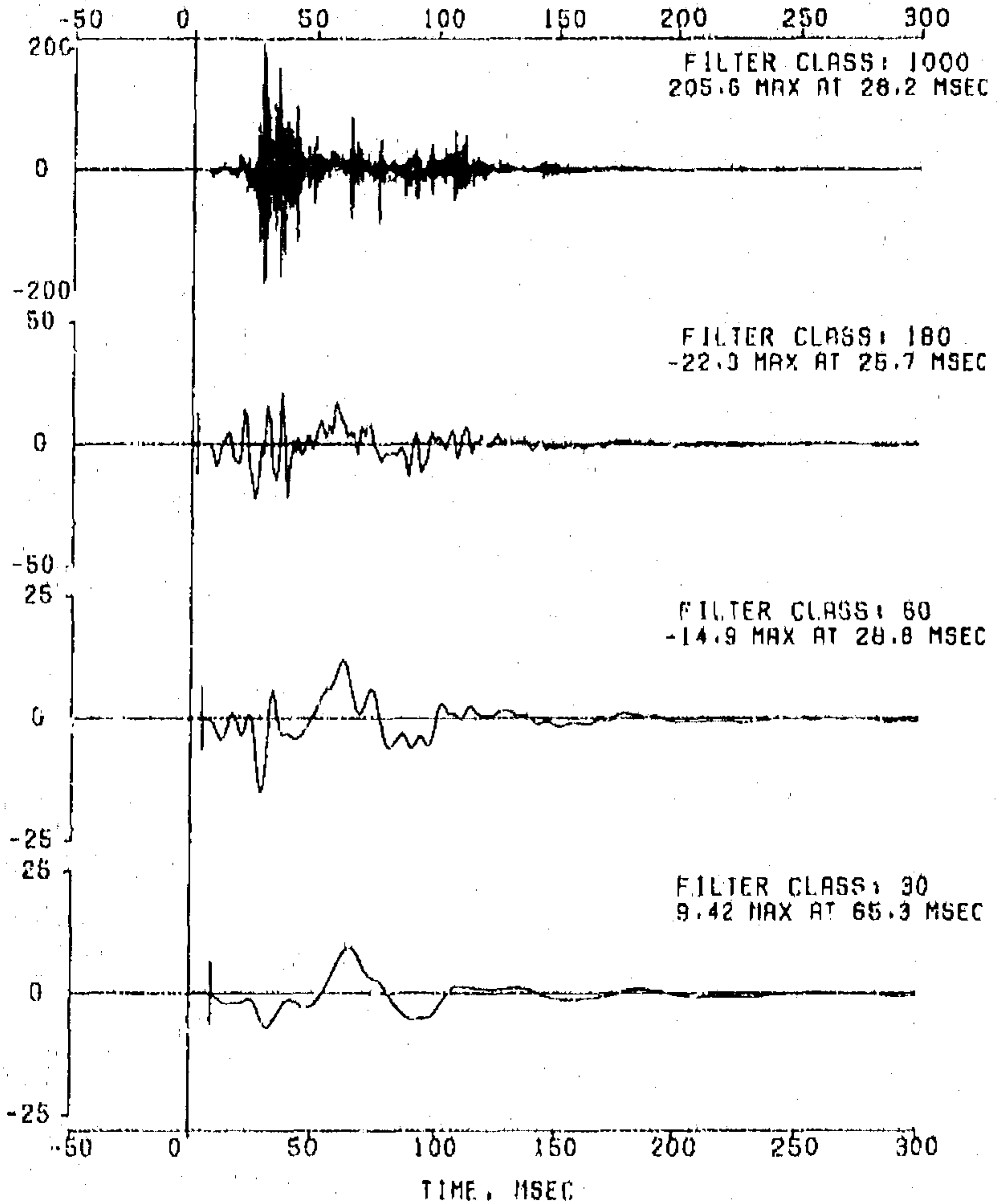


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COMPUTED IN

VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4284R
2002 MVSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 012 RT RAIL TRANS XDR Z AMRH3
FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT, 5320
AUG 27, 1999

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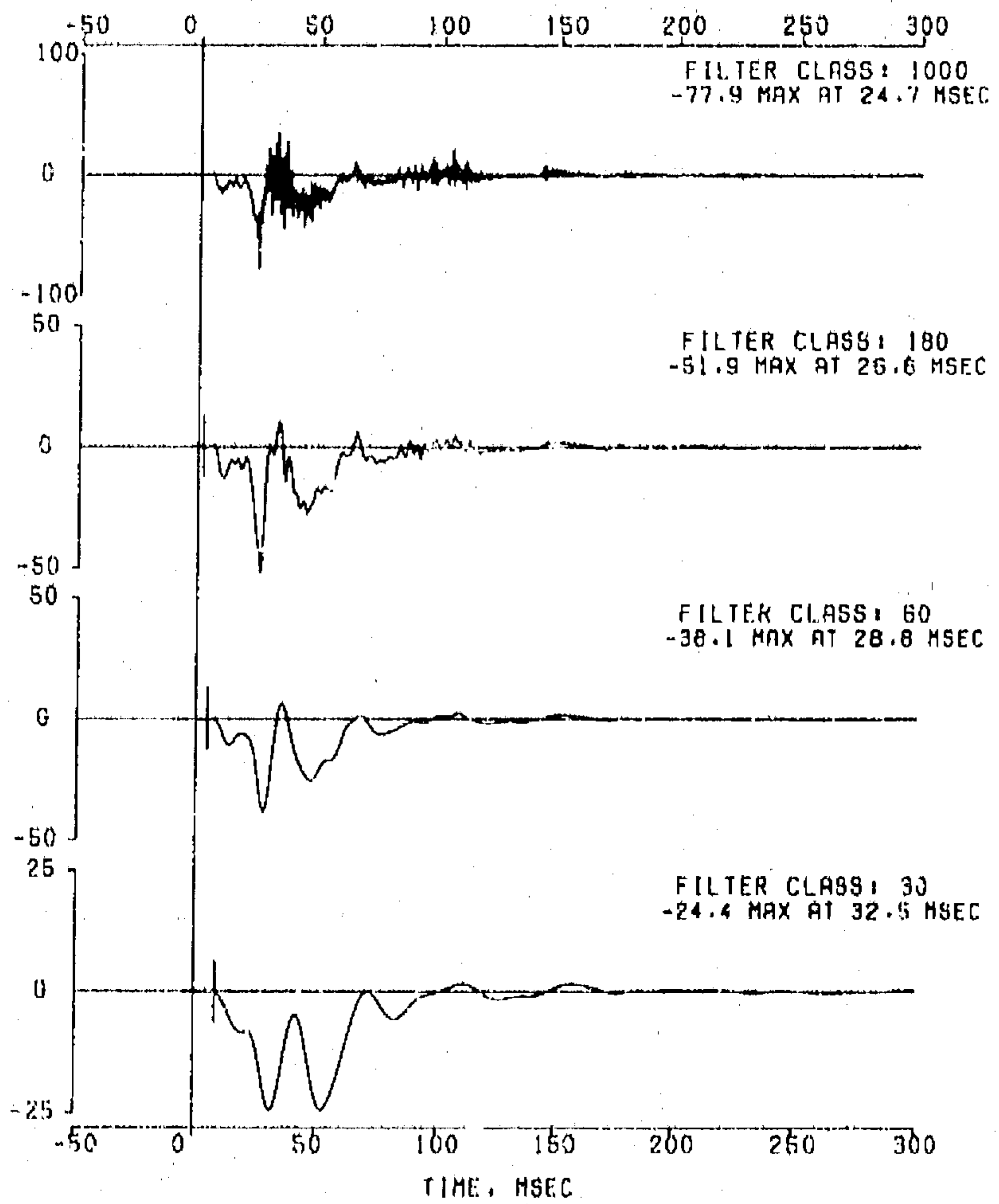
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ERRATA 1



VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
2002 MYSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 013 LT RAIL TRANS XMBR X J26068
FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1050)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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DATA SET 08/27/99BK
ERRATA 1



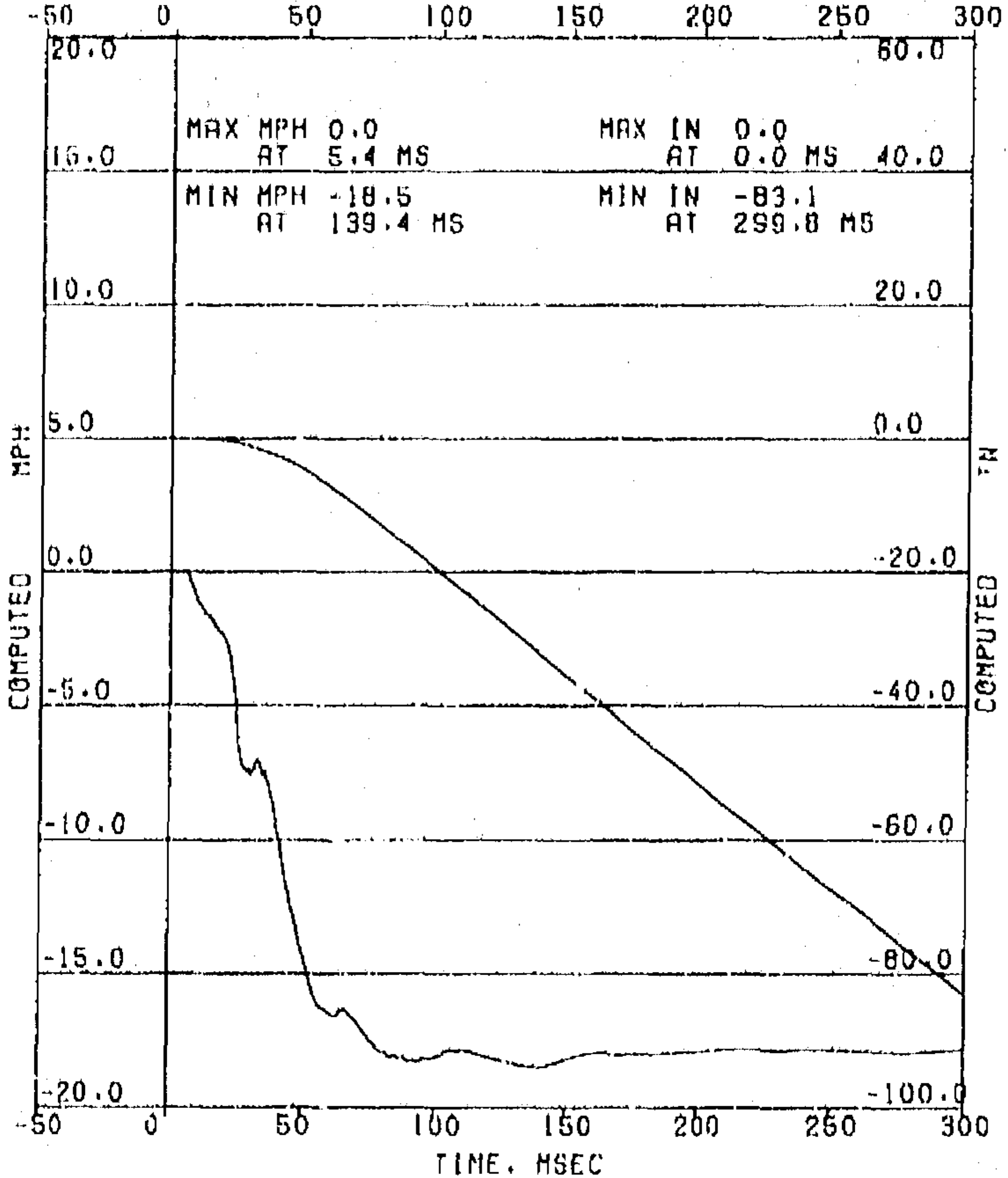
VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
 2002 HYSS 301 REAR IMPACT DEVELOPMENT
 CHANNEL 013 LT RAIL TRANS XMBR X J26068

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FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 08/27/99BK
 ERRATA 1

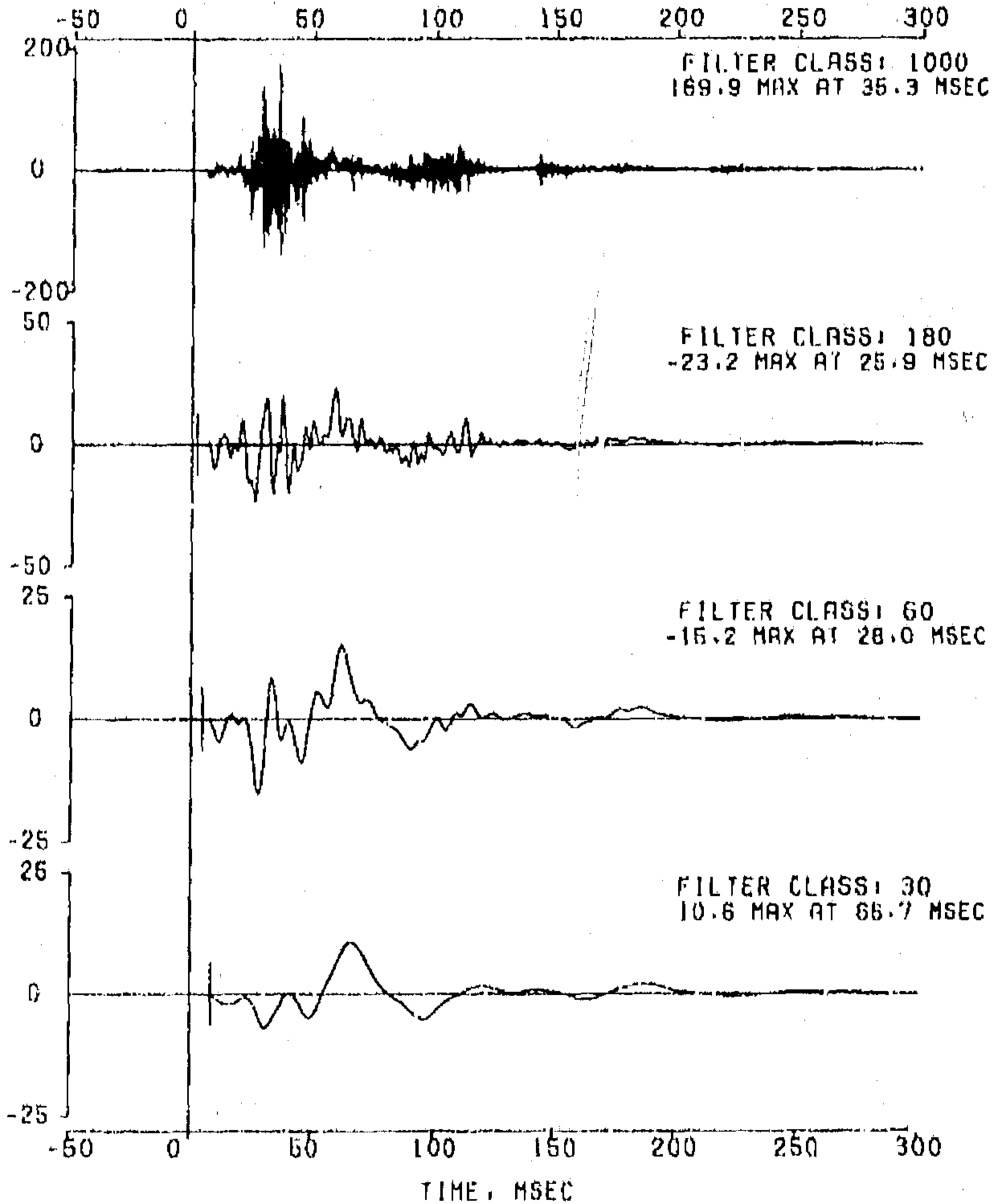


COMPUTED MPH
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VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
2002 MYSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 014 LT RAIL TRANS XMR Z J27546
FILTER TYPE I OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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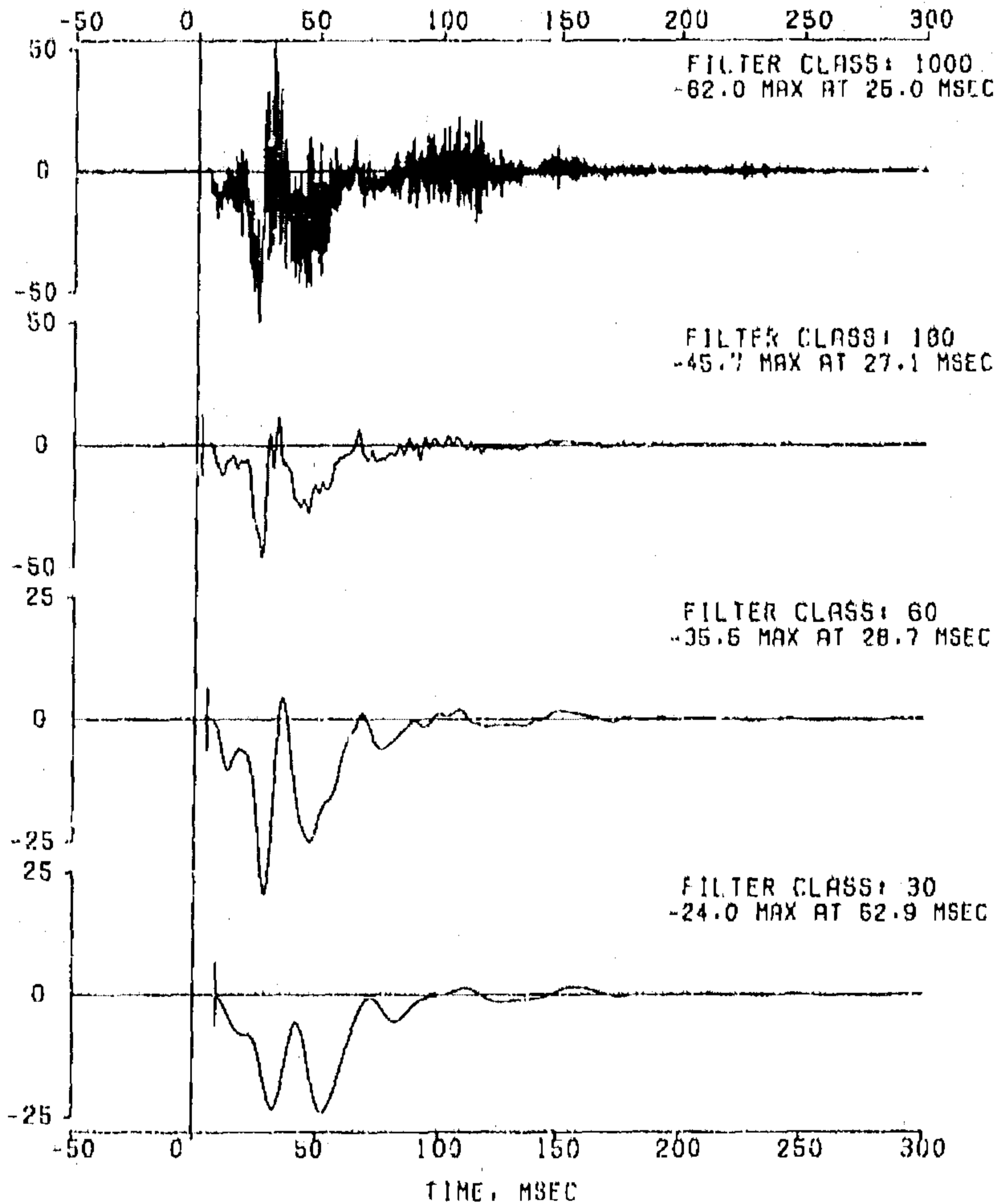
DATA SET 08/27/99BK
ERRATA 1



VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
2002 MY98 301 REAR IMPACT DEVELOPMENT
CHANNEL 015 LT RL FWD RR CTRL ARM X J26933
FILTER TYPE: 00DAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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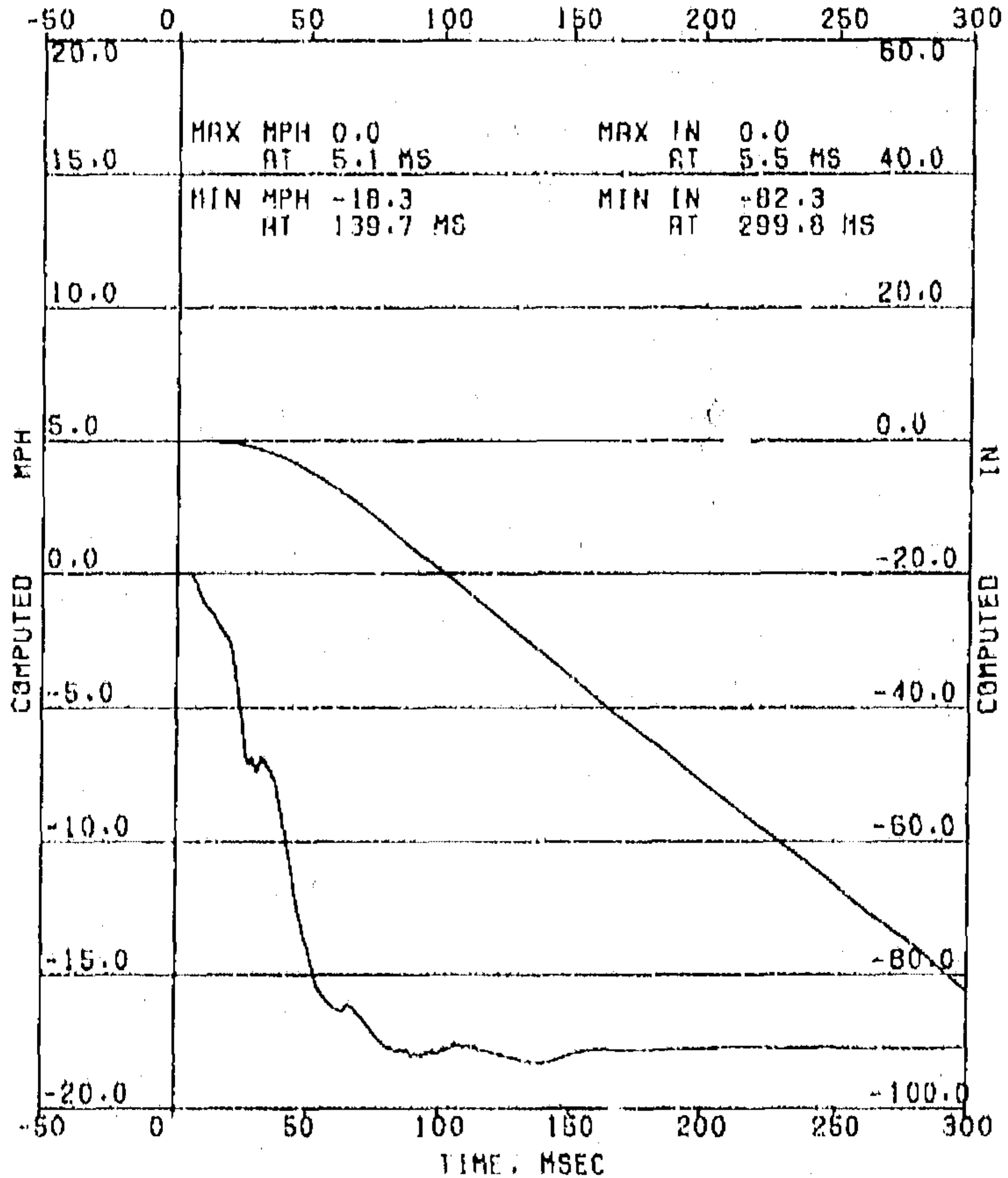
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ERRATA 1



FILTER TYPE: 080AS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

DATA SET 08/27/99BK
ERRATA 1

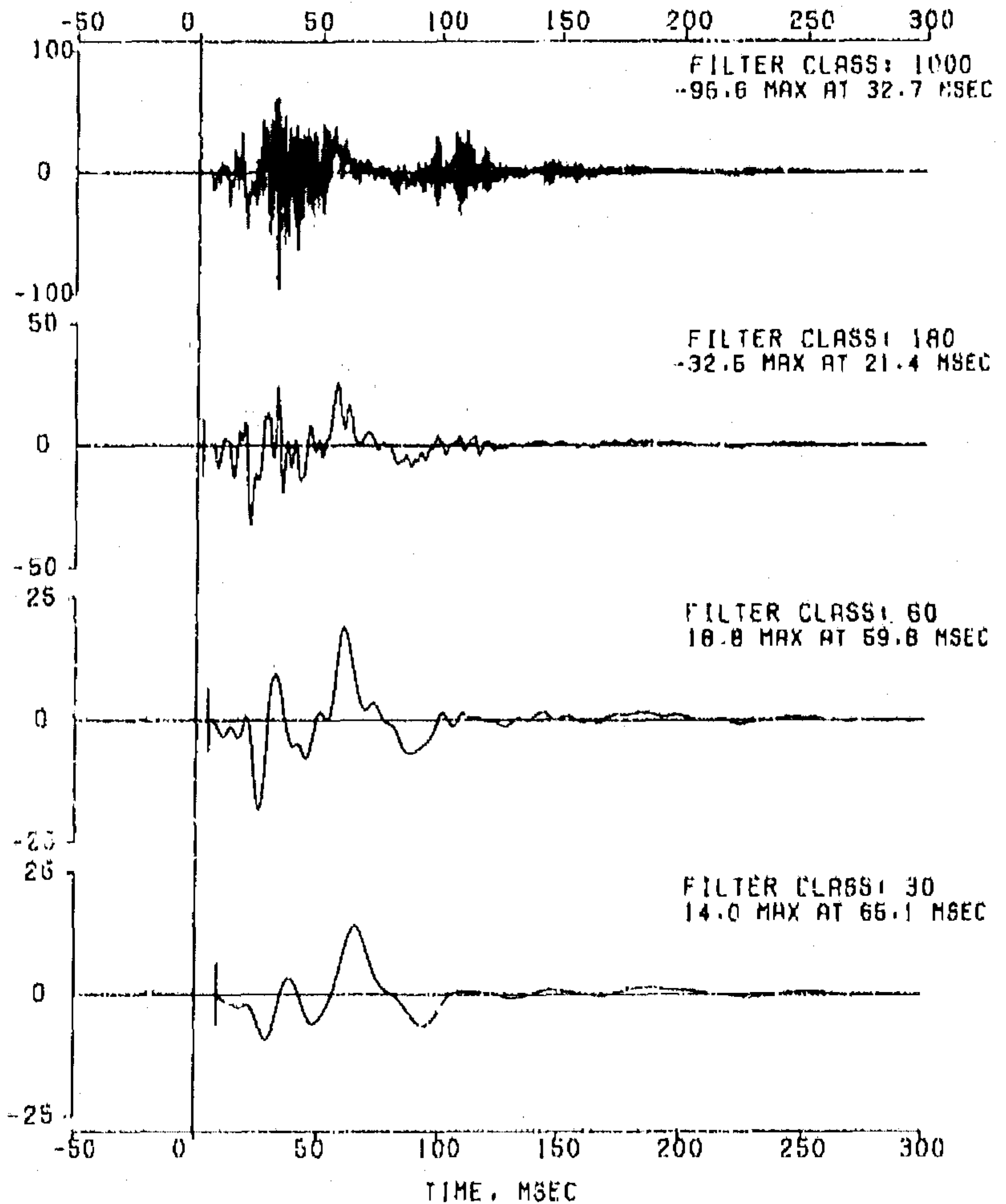


COMPUTED MPH
COMPUTED IN

VCO7746 30 MPH REAR MOVING BARRIER, KJ1-74, ITEM KJ4264R
2002 MYSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 016 LT RL FWD RR CTRL ARM Z J13026
FILTER TYPE: OBDAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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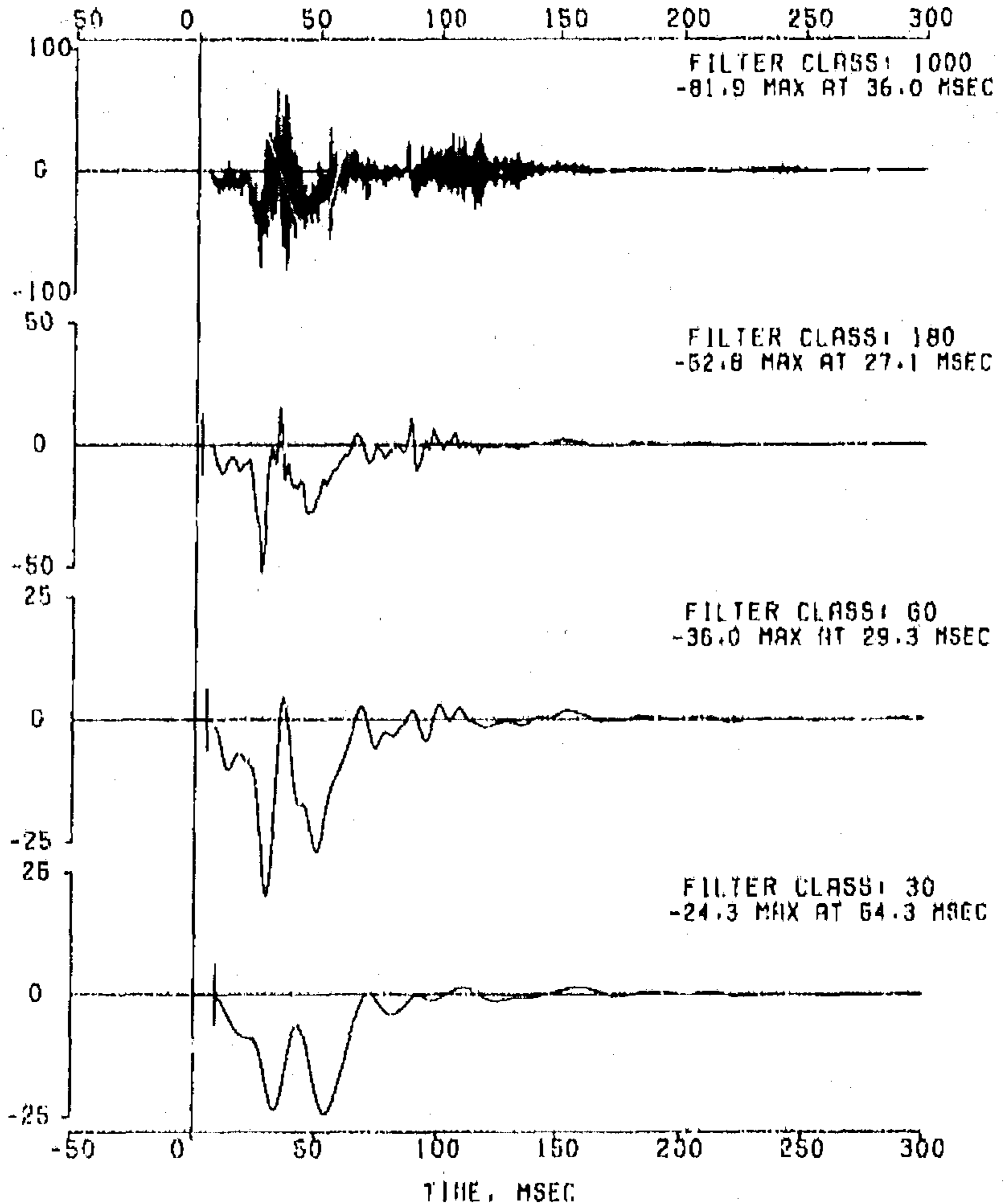
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ERRATA 1



VCD7746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
2002 MYSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 017 RT RL FWD RH CTRL ARM X R32FJ
FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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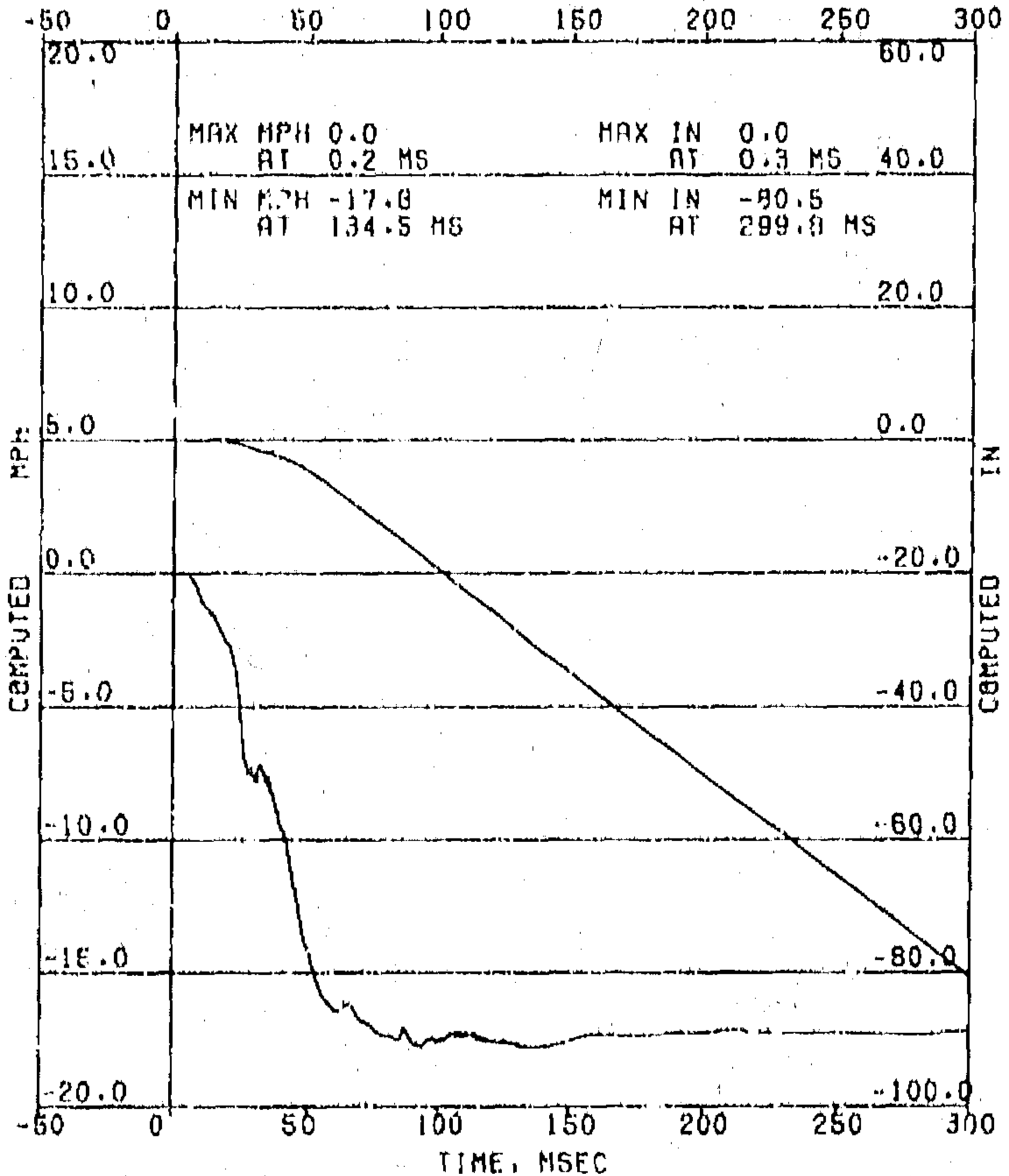
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ERRATA



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IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

DATA SET 08/27/99BL
ERRATA 1

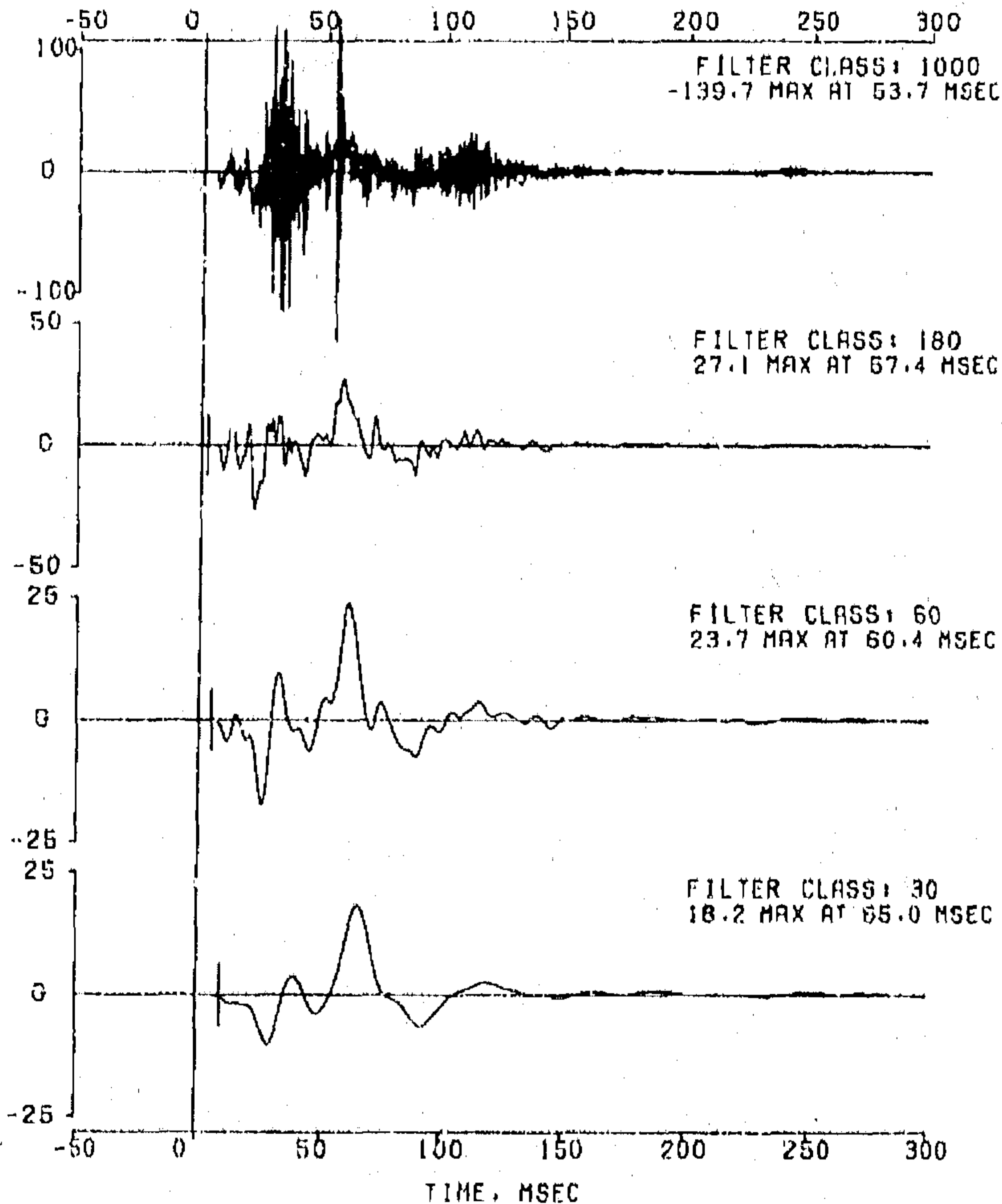


COMPUTED MPH
COMPUTED IN

VC07746 30 MPH REAR MOVING BARRIER, IJT-74, ITEM KJ4284R
2002 HY56 301 REAR IMPACT DEVELOPMENT
CHANNEL 018 RT RL FWD RR CTRL ARM Z J17279
FILTER TYPE: ODDAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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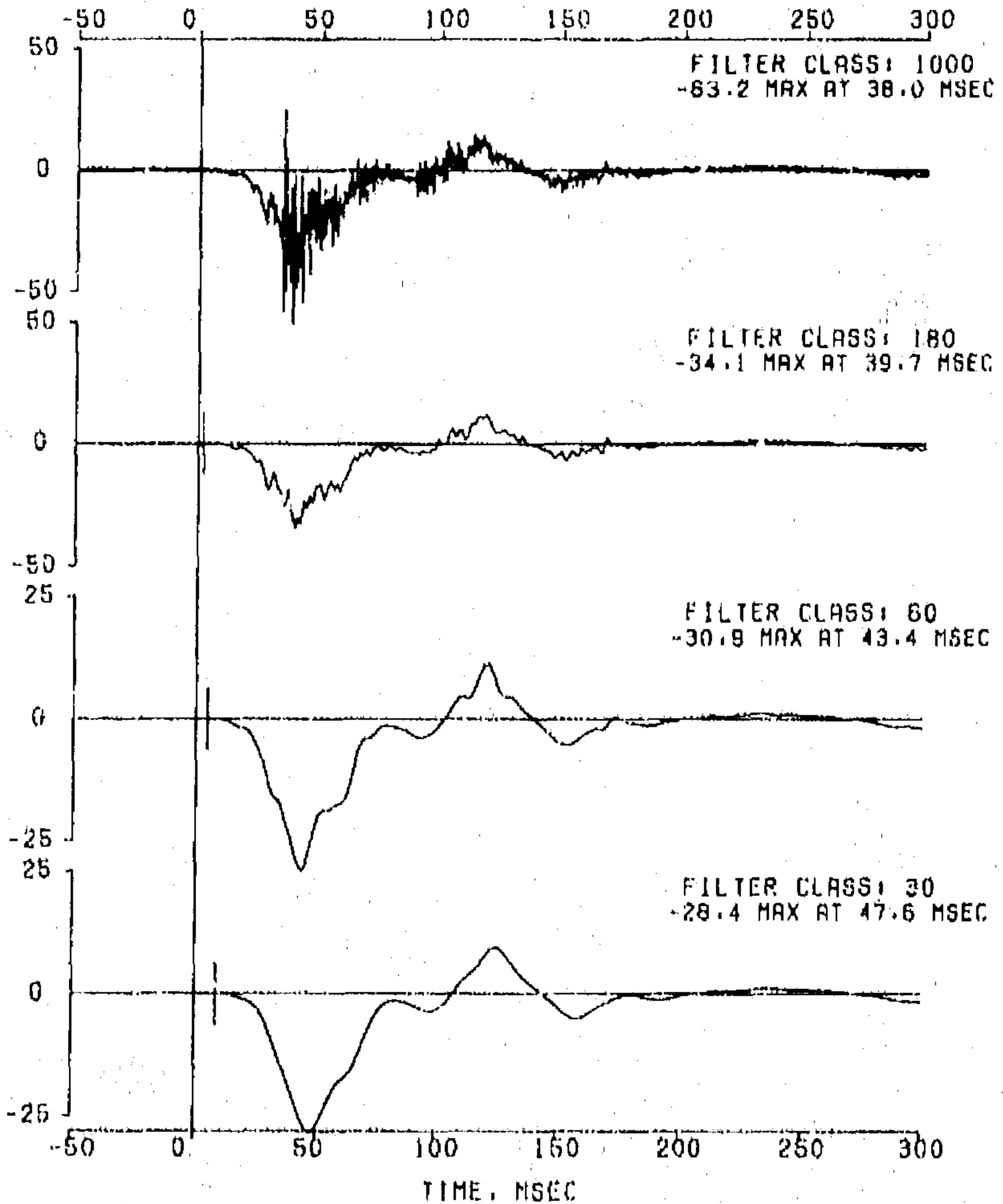
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ERRATA 1



VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
2002 MY68 301 REAR IMPACT DEVELOPMENT
CHANNEL 019 ENGINE BOTTOM X J11022
FILTER TYPE: 08DAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
RUD 27, 1998

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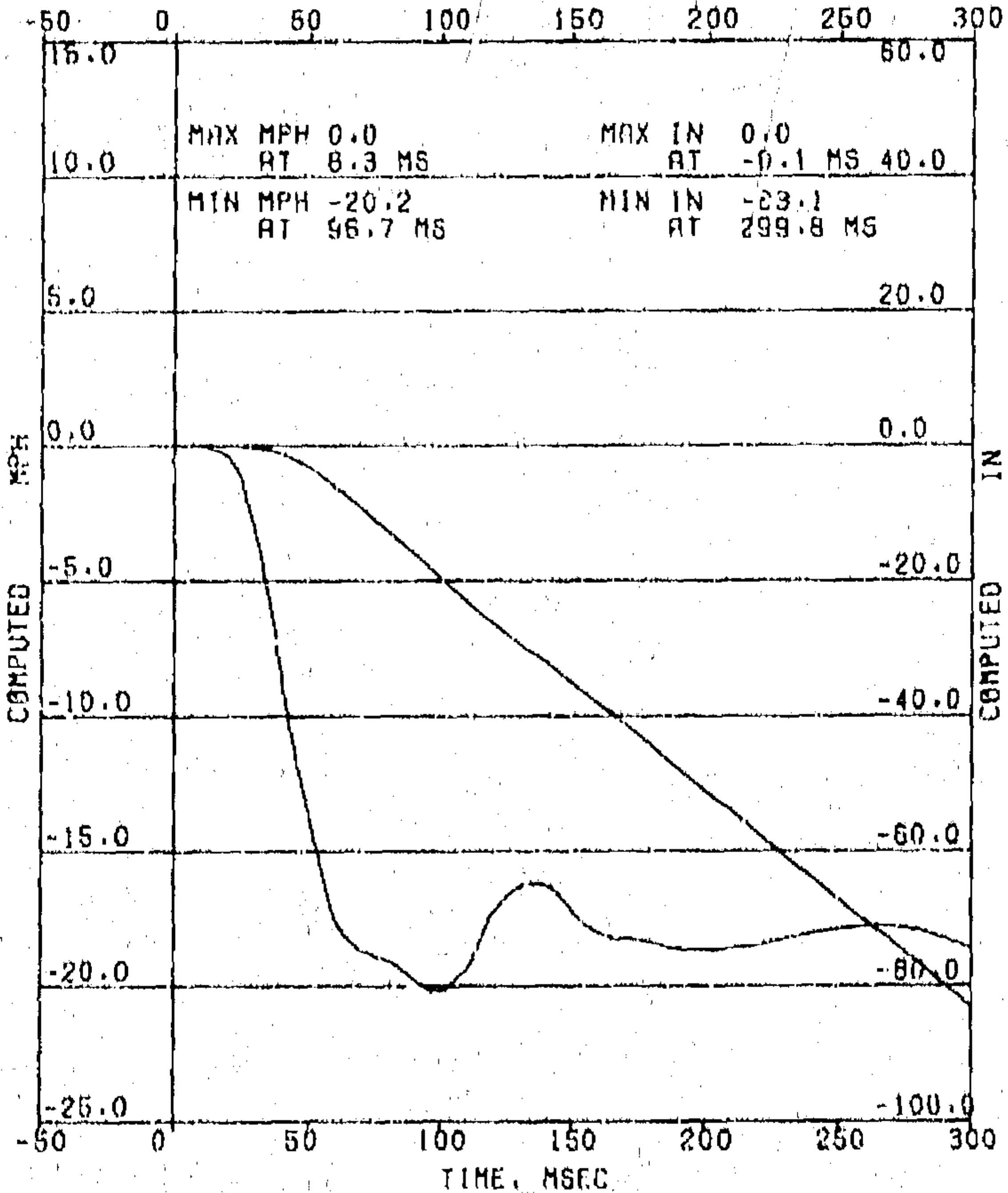
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ERRATA 1



FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 08/27/99BL
 ERRATA 1

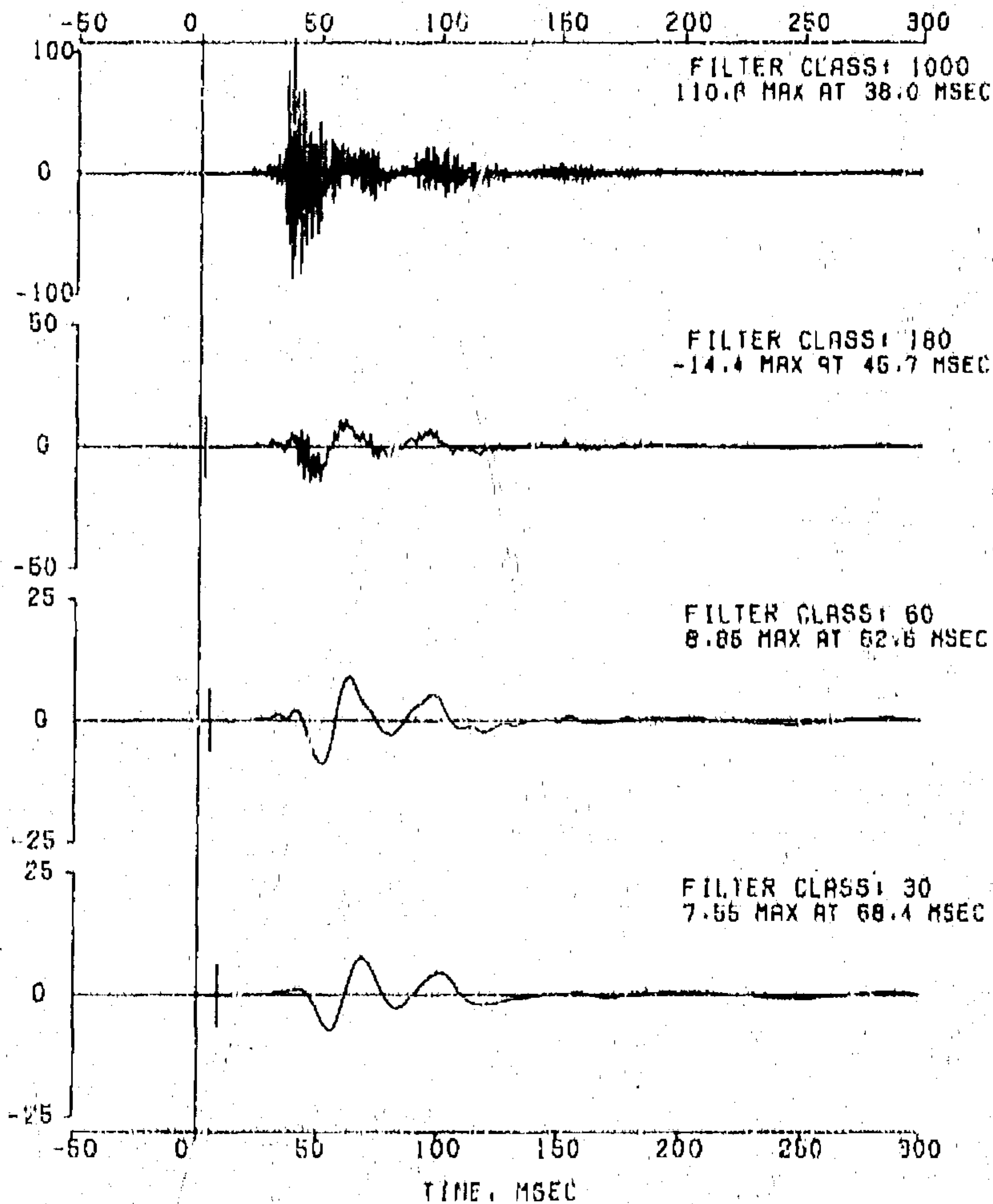


COMPUTED MPH
 COMPUTED IN

VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
2002 MV99 301 REAR IMPACT DEVELOPMENT
CHANNEL 020 ENGINE BOTTOM Y J27858
FILTER TYPE: OBDAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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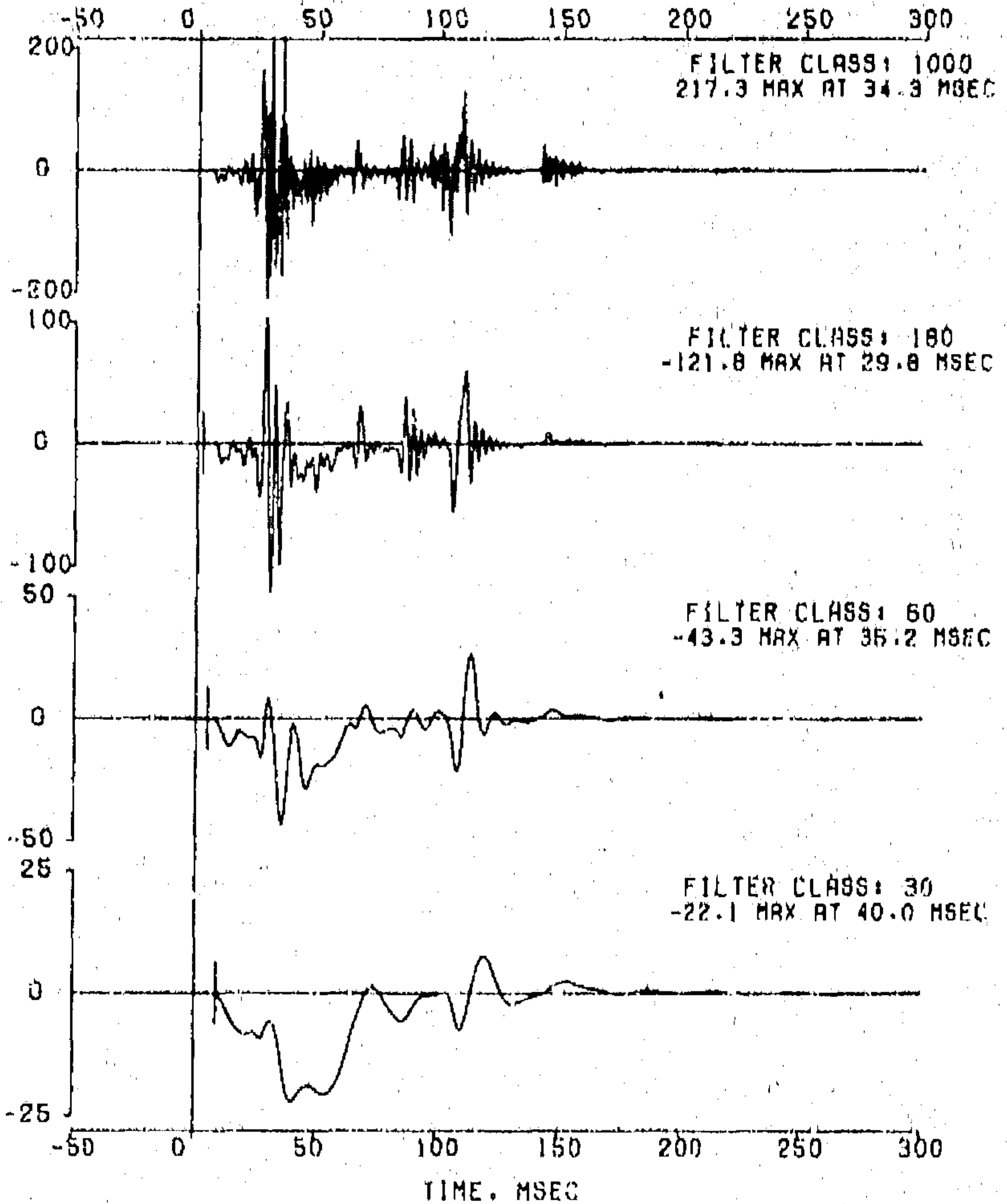
DATA SET 08/27/99BL
ERRATA 1



VC07748 30 MPH REAR MOVING BARRIER, KJT-74, ITEM NJ4264R
2002 MY59 301 REAR IMPACT DEVELOPMENT
CHANNEL 025 TRANS XMR MID X J12991
FILTER TYPE: OBDAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1850)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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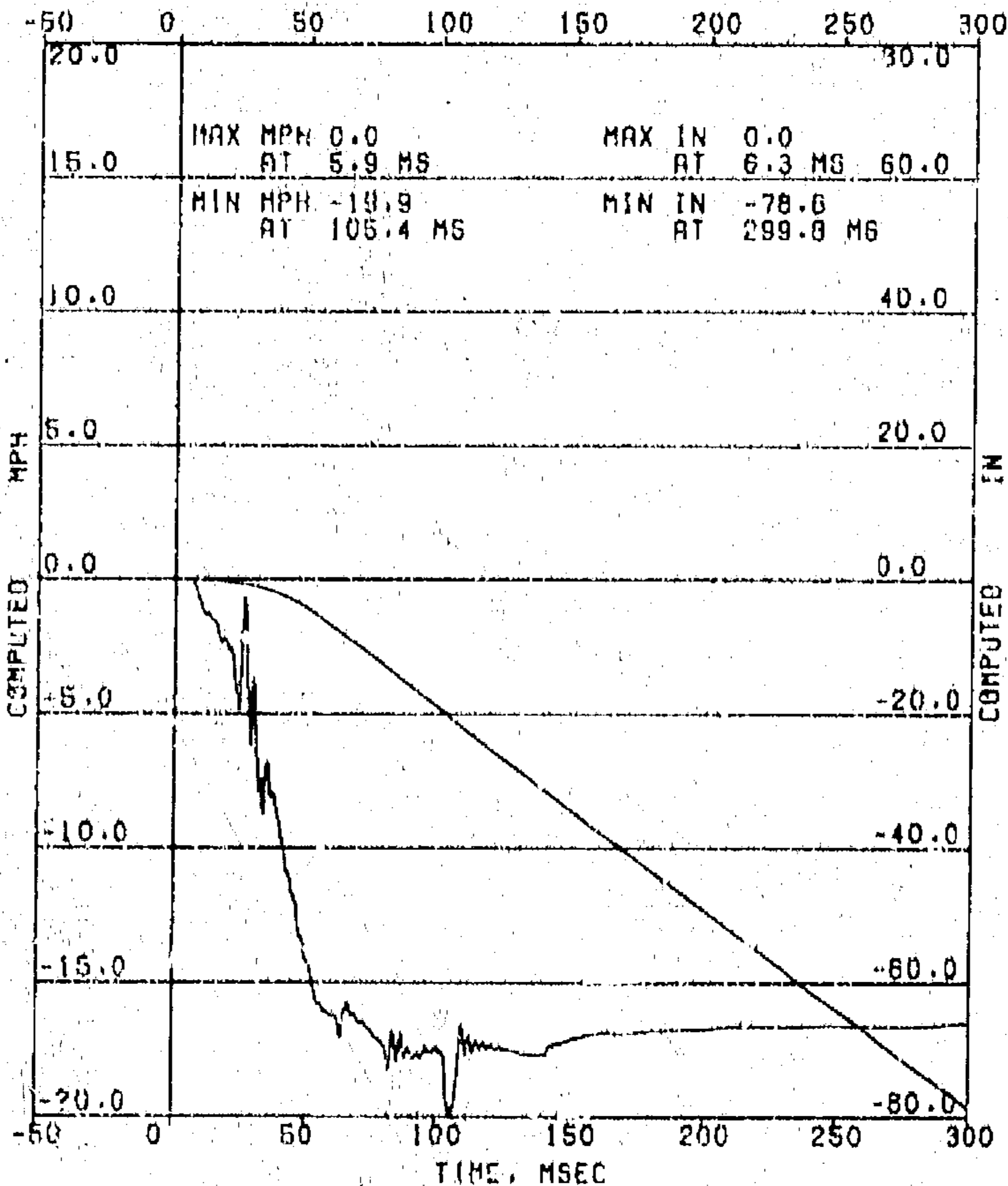
DATA SET 08/27/99BL
ERRATA 1



FILTER TYPE: DBORS-111 RESPONSE CORRECTION CLASS 1000 FILTER(1650)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

DATA SET 08/27/99BL
ERRATA 1

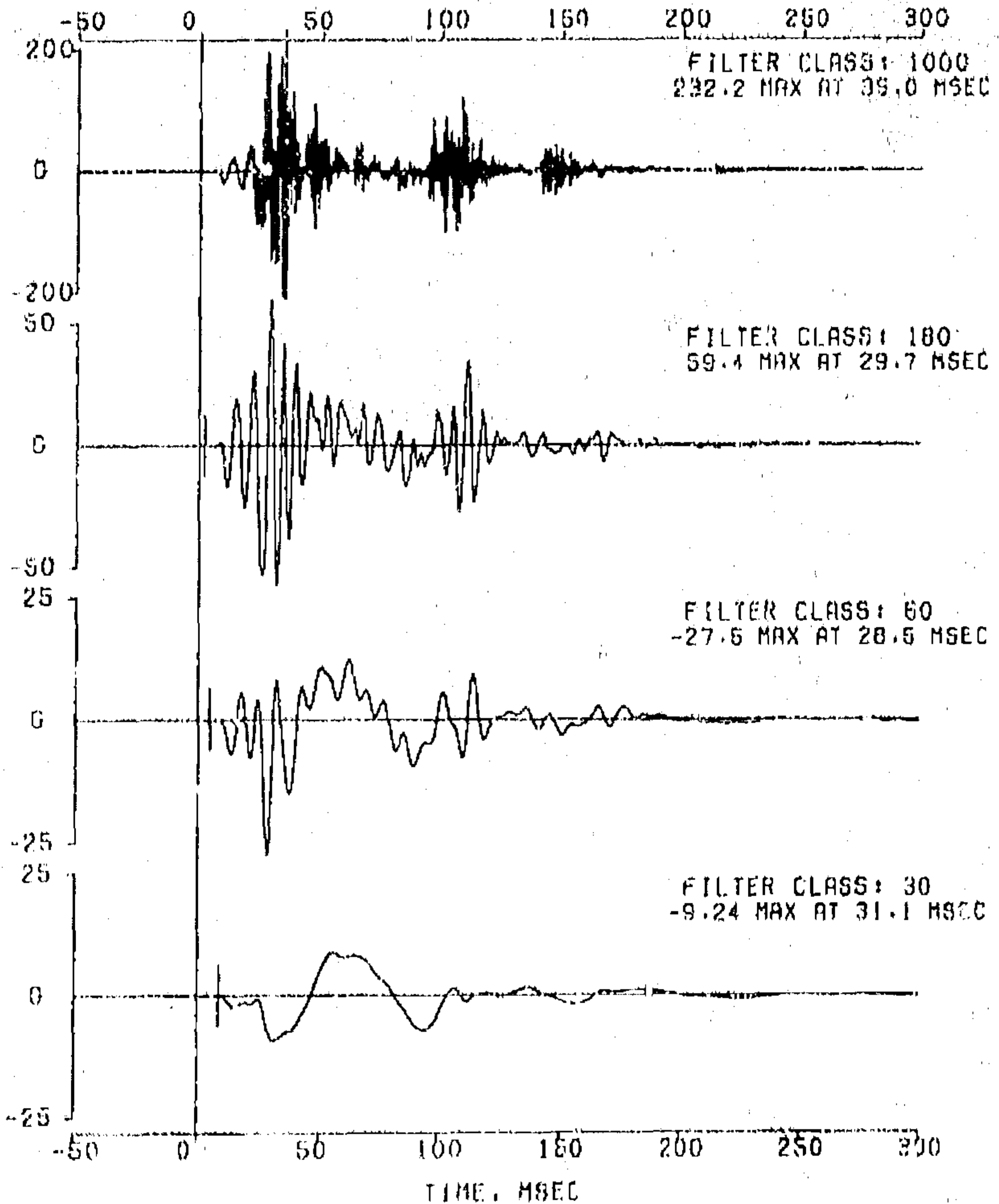


COMPUTED MPH
COMPUTED IN

VC07748 30 MPH REAR MOVING BARRIER, KJ1-74, ITEM KJ4264R
2002 HY55 301 REAR IMPACT DEVELOPMENT
CHANNEL 028 TRANS XHOR MID Z J11277
FILTER TYPE: 000A6-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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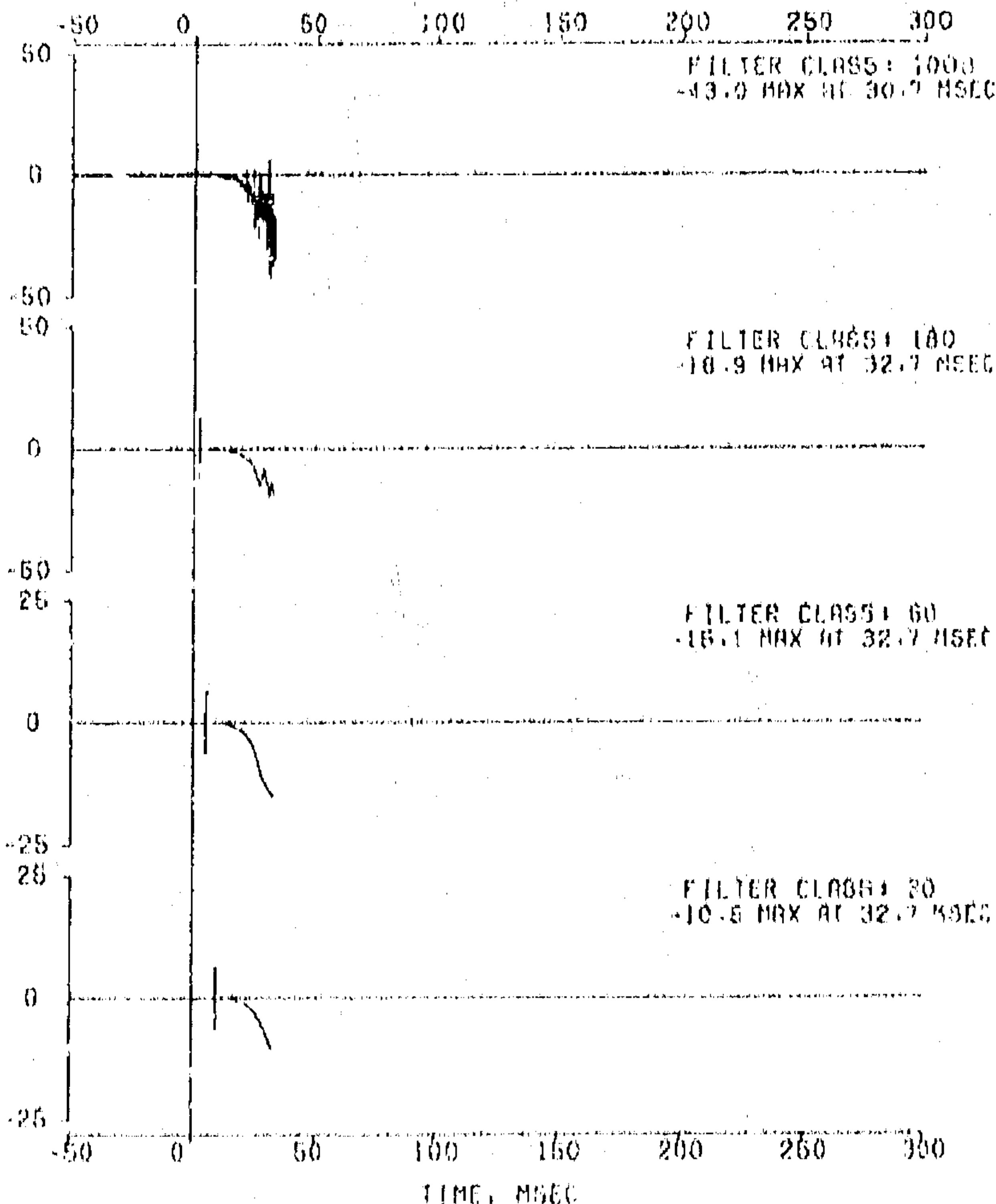
DATA SET 08/27/9901
ERRATA 1



VCC7740 30 MPH REAR MOVING BARRIER, RUT-75 ITEM KJ4284R
2002 MV89 301 REAR IMPACT DEVELOPMENT
CHANNEL 027 ON TAPING ABOVE XNR X J14930
FILTER TYPE: 000AS-III RESPONSE CORRECTION: CLASS 100 FILTER(1000)
IMPACT ANALYSIS DEPT. 15320
AUG 27, 1999

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DATA SET 08/27/99BL
ERRATA 1



***** CAUTION *****
FIRST HALF JUNCTION AFTER 32.7 MS

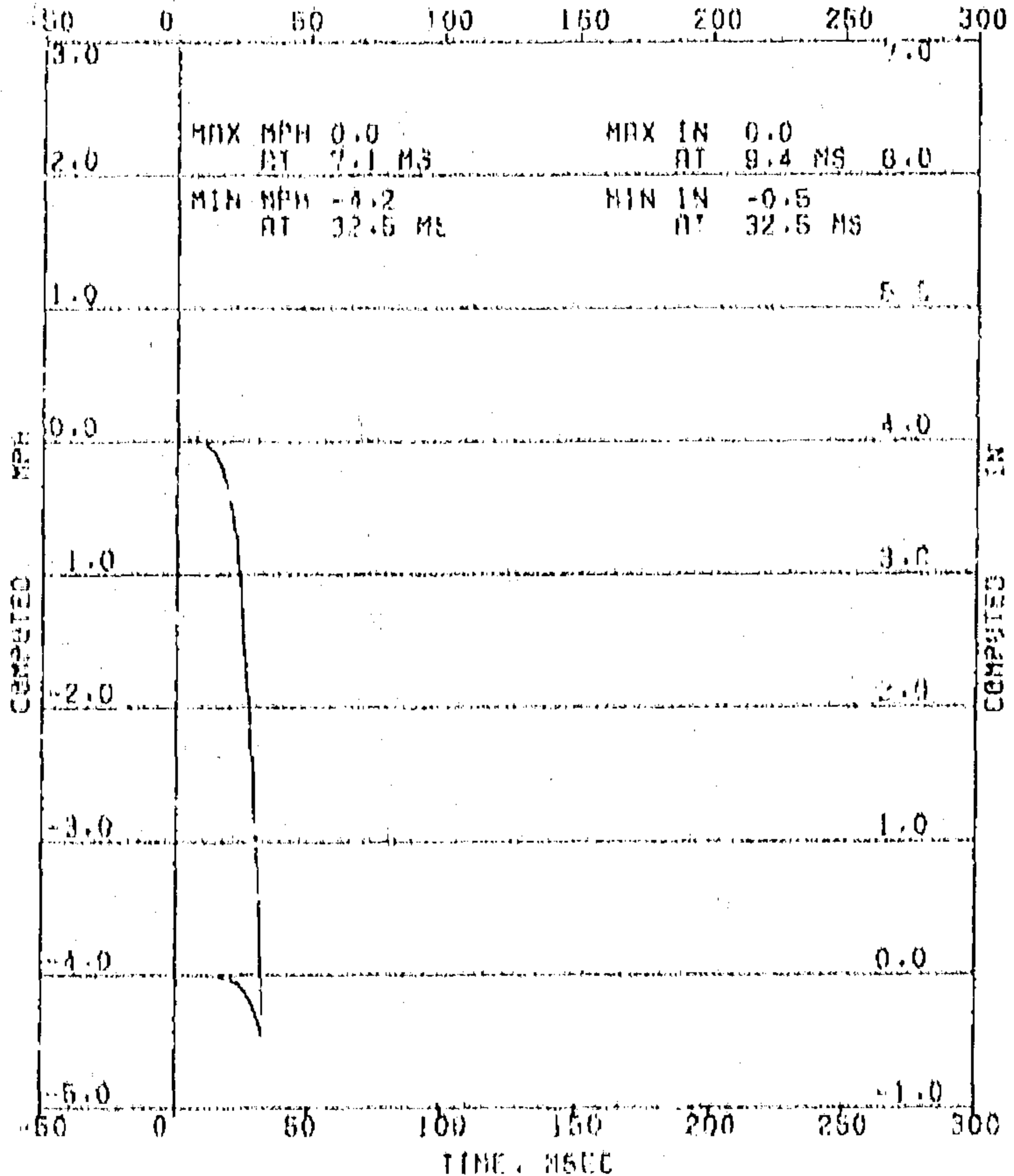
VC077AB 30 MPH REAR MOVING BARRIER, KJ4-741 ITEM KJ4264R
 2002 MY39 301 REAR IMPACT DEVELOPMENT
 CHANNEL 027 ON TRANS ABOVE XMR X 314930

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FILTER TYPE: 300MS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1850)
 FILTER CLASS: 1000

IMPACT ANALYSIS 08PT. 6320
 AUG 27, 1999

DATA SET 08/27/99AL
 ERRORT0 1



***** THIS IS A COPY OF THE ORIGINAL DATA *****

COMPUTED MPH
 COMPUTED IN

VC07748 30 MPH REAR MOVING BARRIER, RUT-74, ITEM KJ4264R

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CHANNEL 029 LT RL RAD RR SURFACE X P11888

FILTER TYPE: 080AS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)

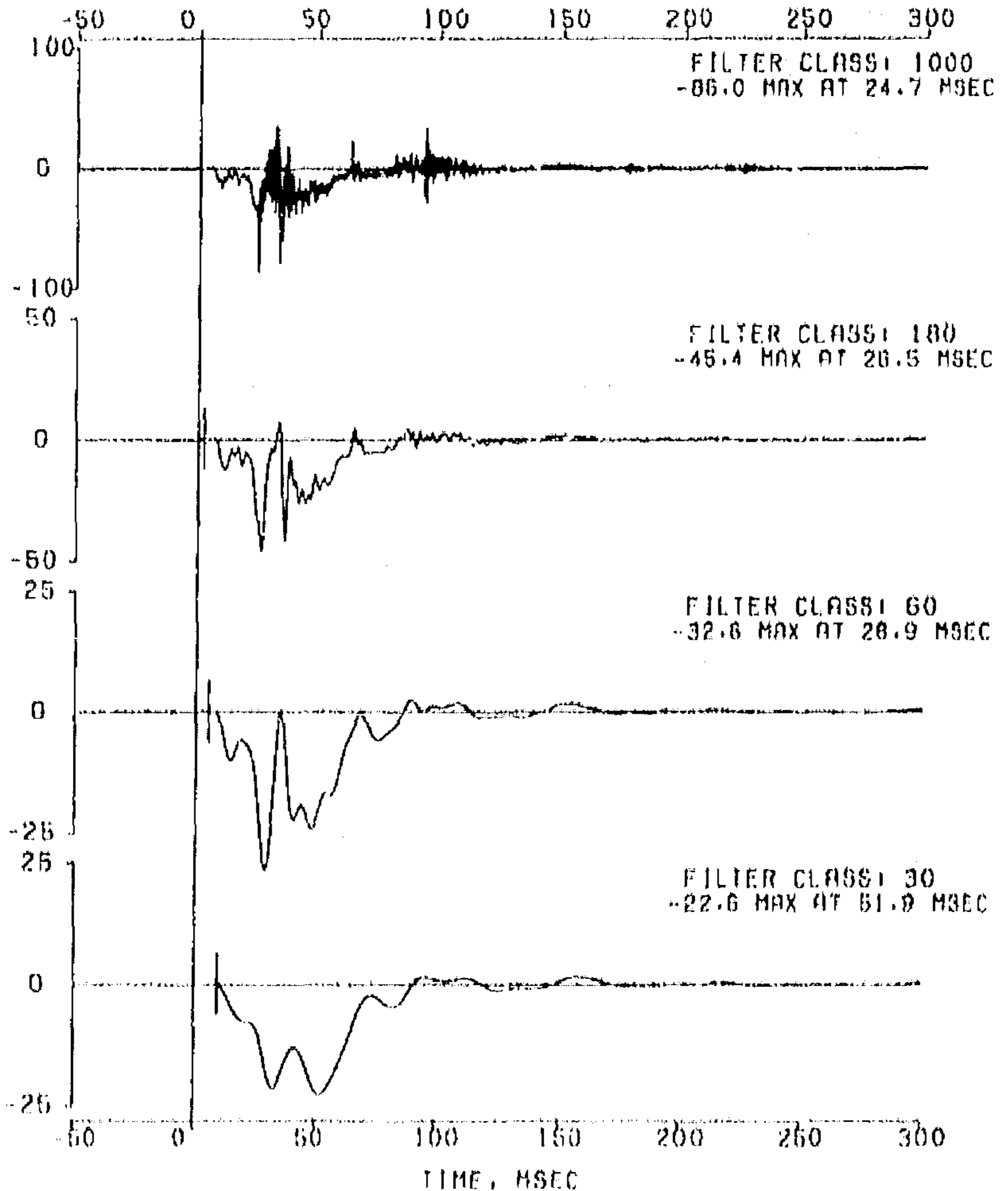
IMPACT ANALYSIS DEPT. 5320

DATA SET 09/27/99BL

AUG 27, 1999

ERRATA

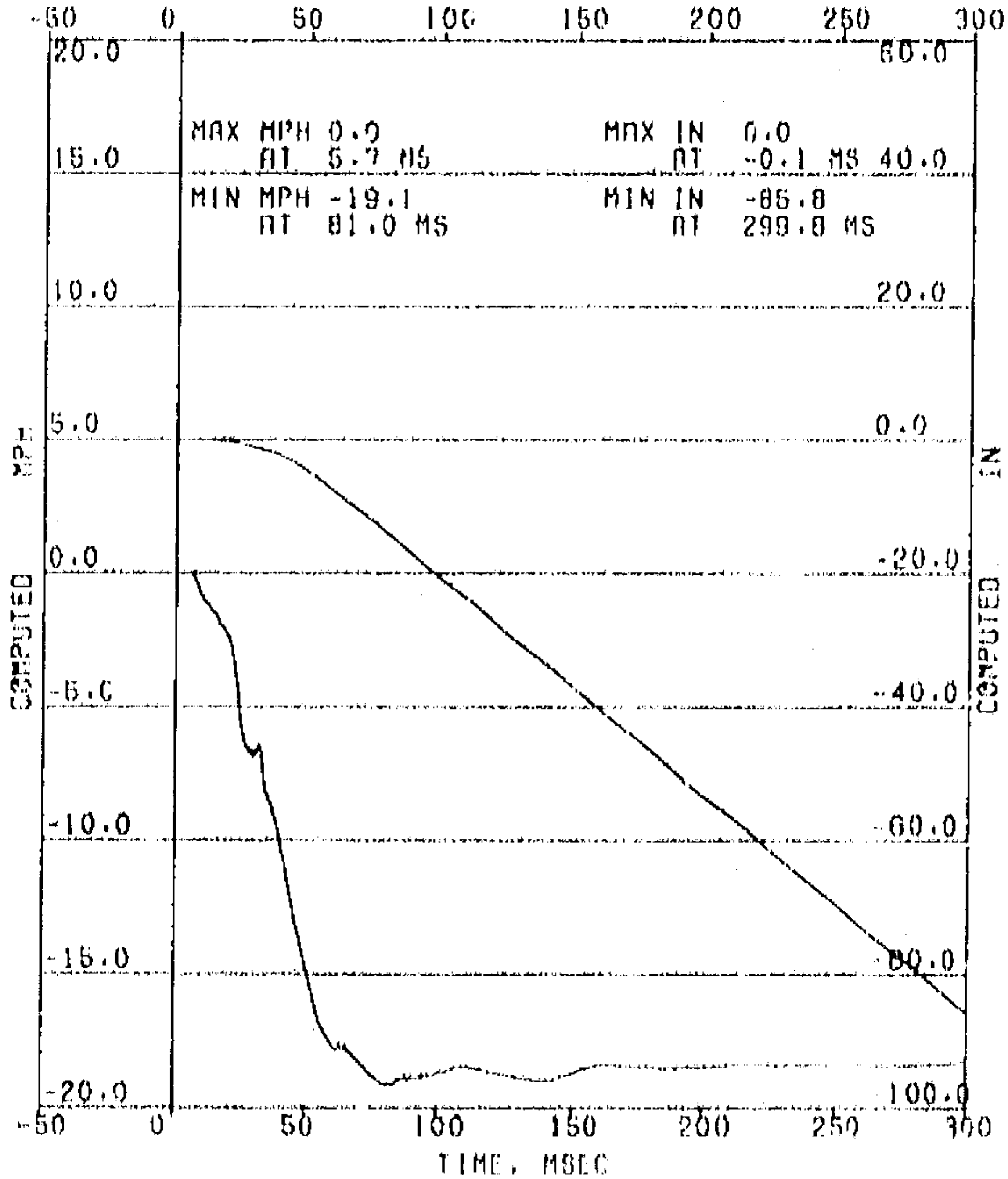
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FILTER TYPE: 08086-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1850)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 08/27/99BL
 ERRPTA 1

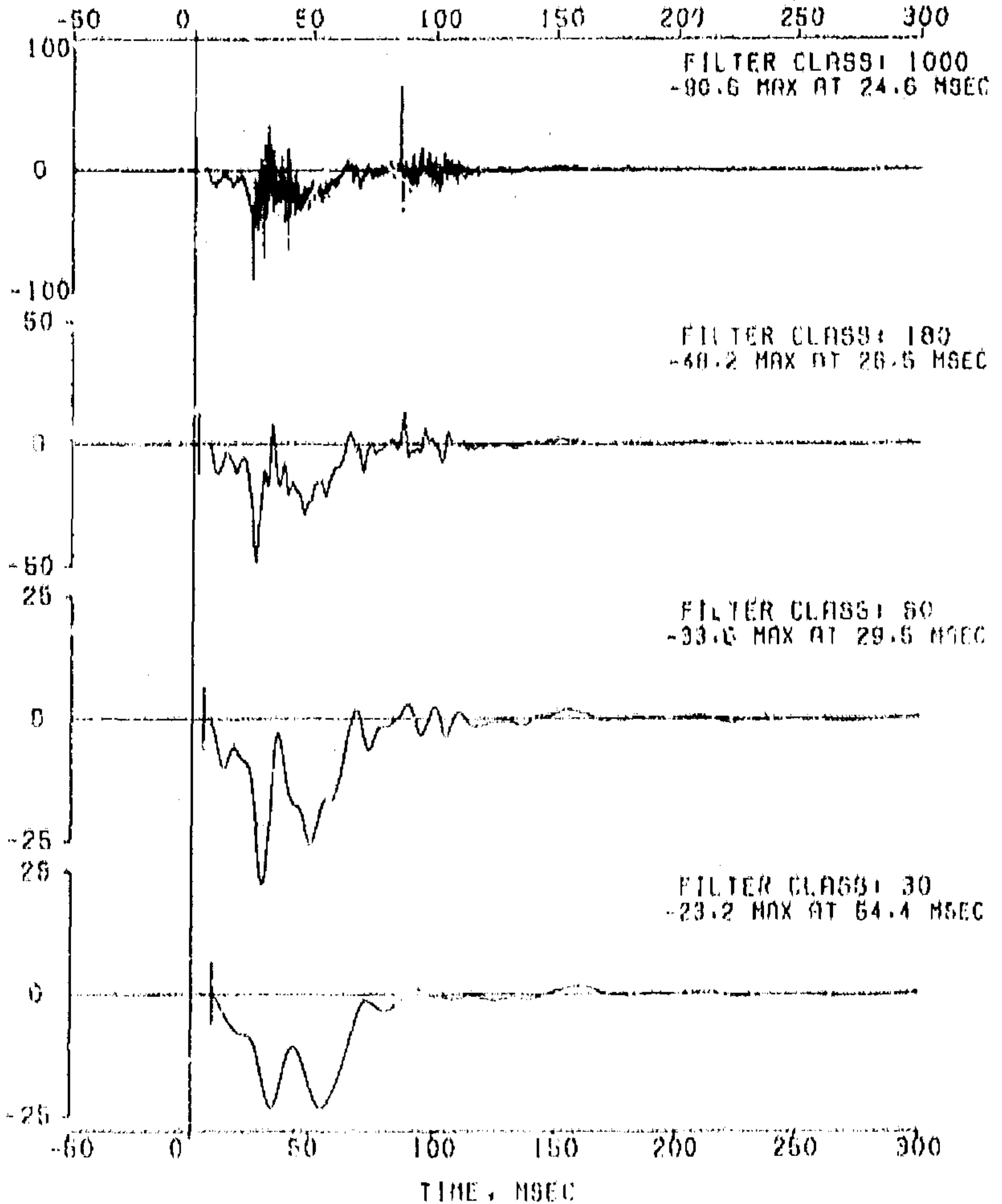


COMPUTED MPH
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VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
0002 MVSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 030 RT RL RAD RR SURFACE X P11866
FILTER TYPE: 000AS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT., 5370
AUG 27, 1999

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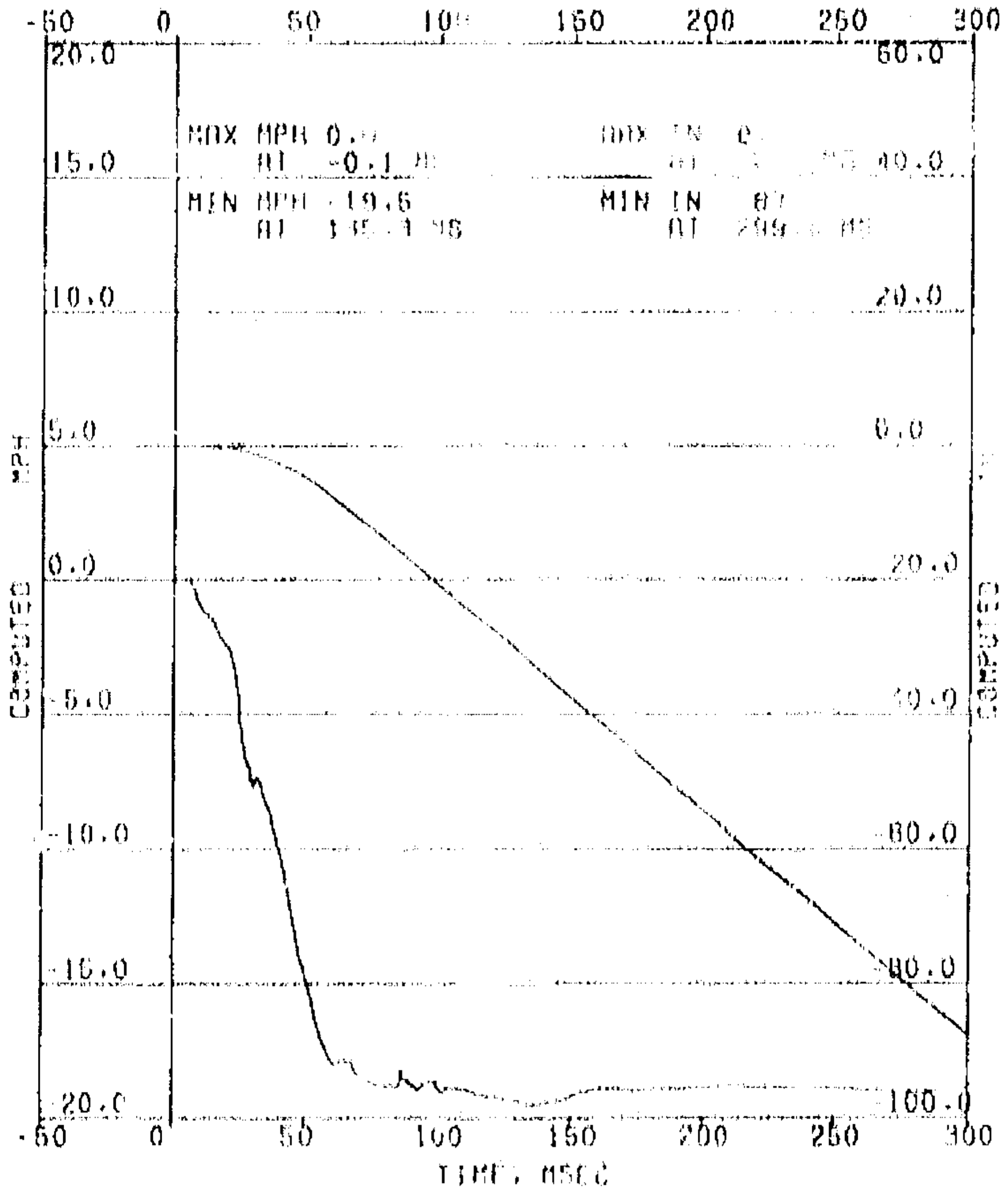
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ERRATA 1



FILTER TYPE: 00UAG-111 RESPONSE CORRECTION: CLASS 1000 FILTER(1660)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 08/27/99BL
 ERRATA 1



COMPUTED MPH
 COMPUTED IN

VCV1749 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4284R

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2002 MY98 301 REAR IMPACT DEVELOPMENT

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CHANNEL 031 LEFT REAR SILL

Z J12980

FILTER TYPE: 080AS-III RESPONSE CORRECTION, CLASS 1000 FILTER 18501

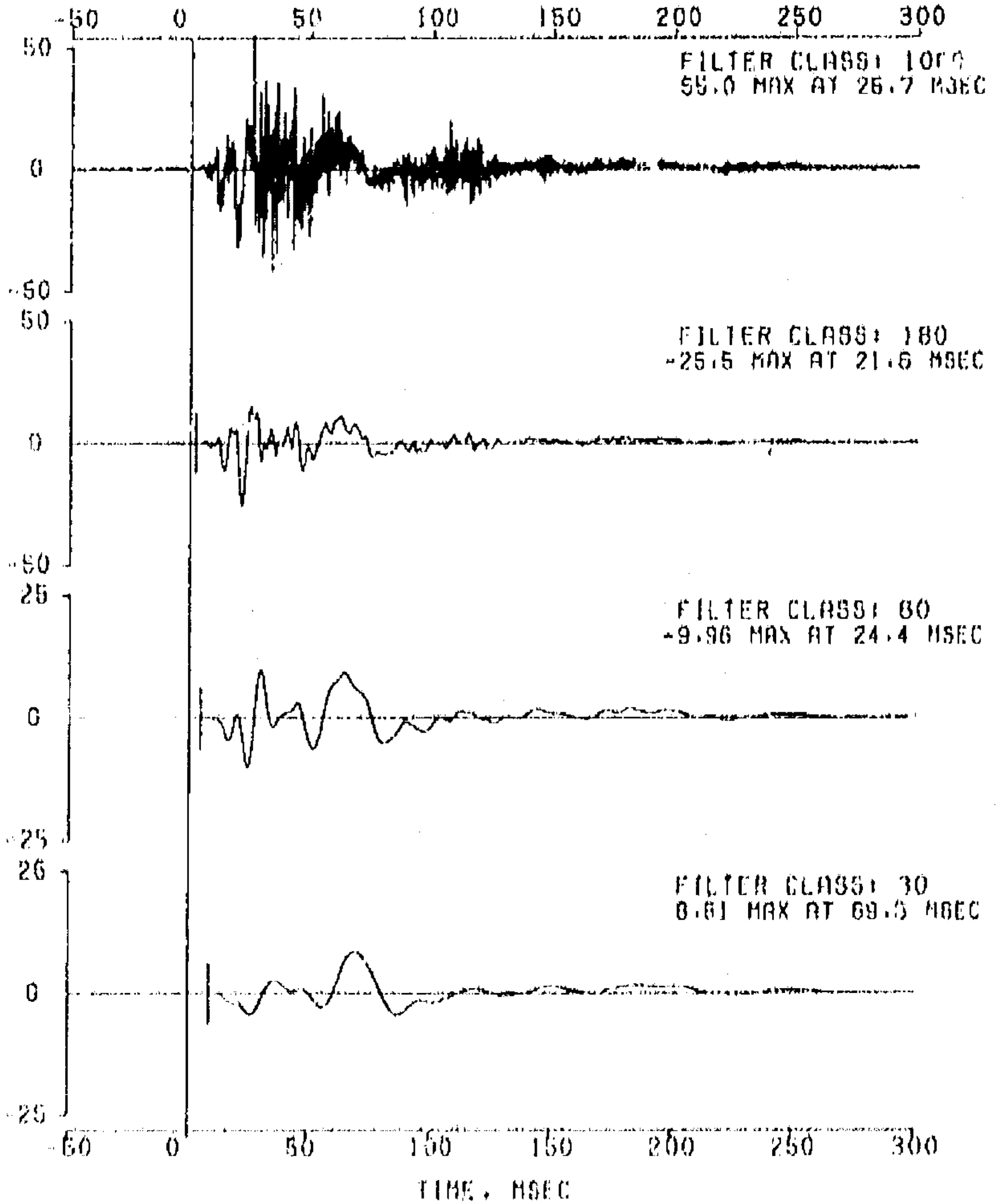
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DATA SET 08/27/99BL

AUG 27, 1999

ERRATA

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VCD274B 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4254R

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2002 HYBR 301 REAR IMPACT DEVELOPMENT

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CHANNEL 032 RIGHT REAR SILL

2 J1B706

FILTER TYPE: BURS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)

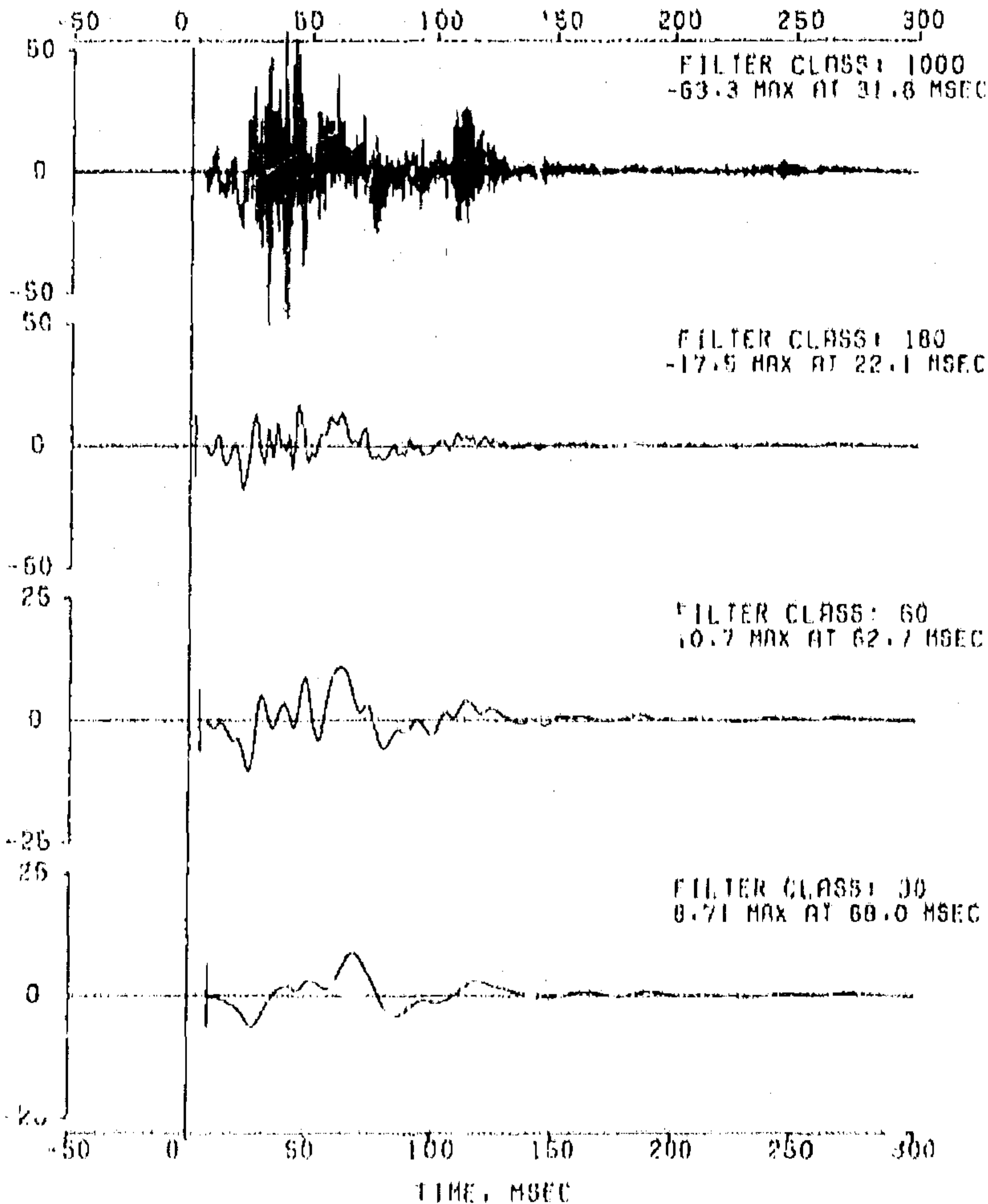
IMPACT ANALYSIS DEPT. 5320

DATA SET 00/27/99BL

AUG 27, 1999

ERRATA

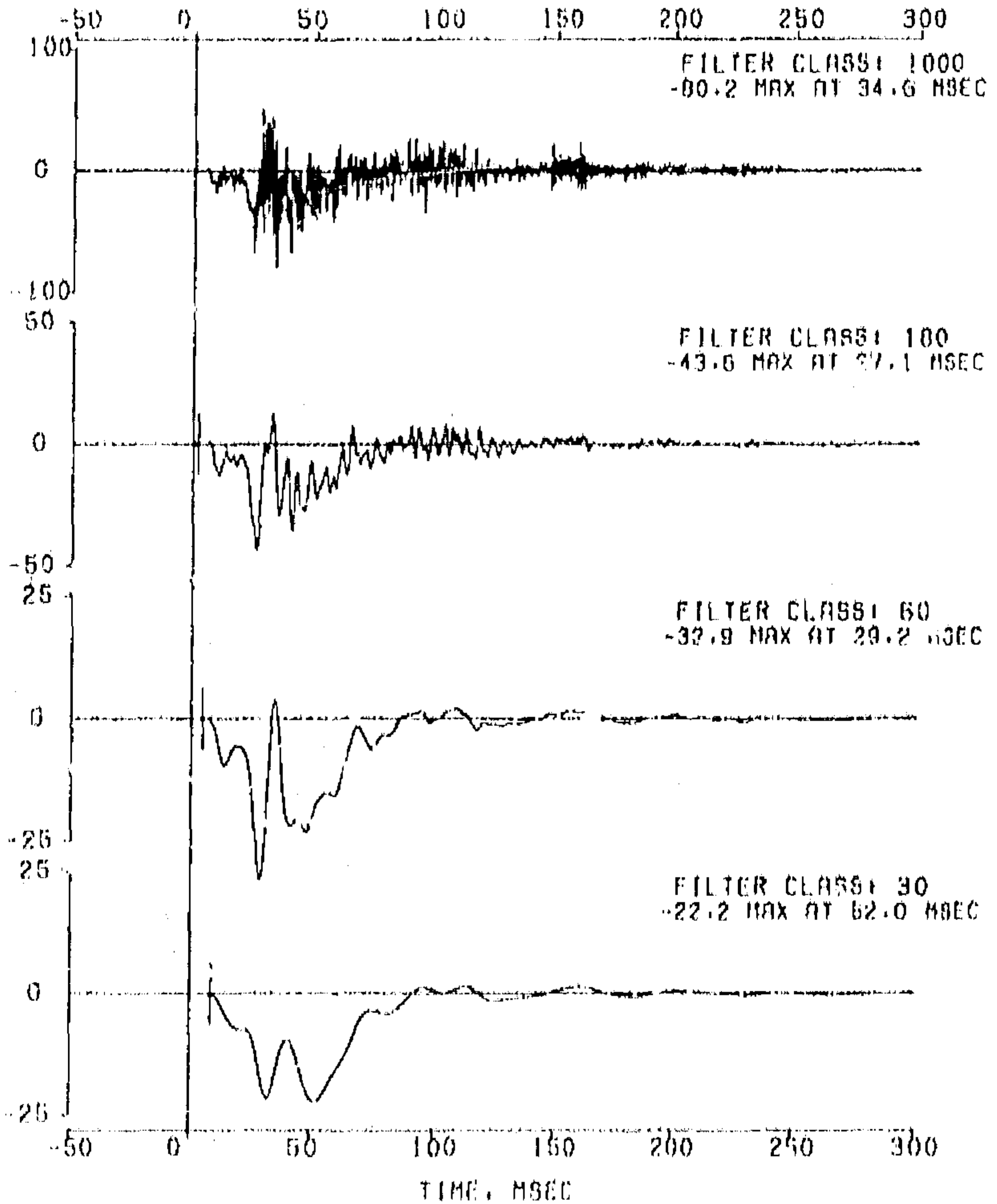
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YCU7746 30 MPH REAR MOVING BARRIER, KJ1-74, ITEM KJ4264R
2002 HYBR 301 REAR IMPACT DEVELOPMENT
CHANNEL 033 LT 300 MID SUPPORT RR X P11985
FILTER TYPE: 000PS-VII RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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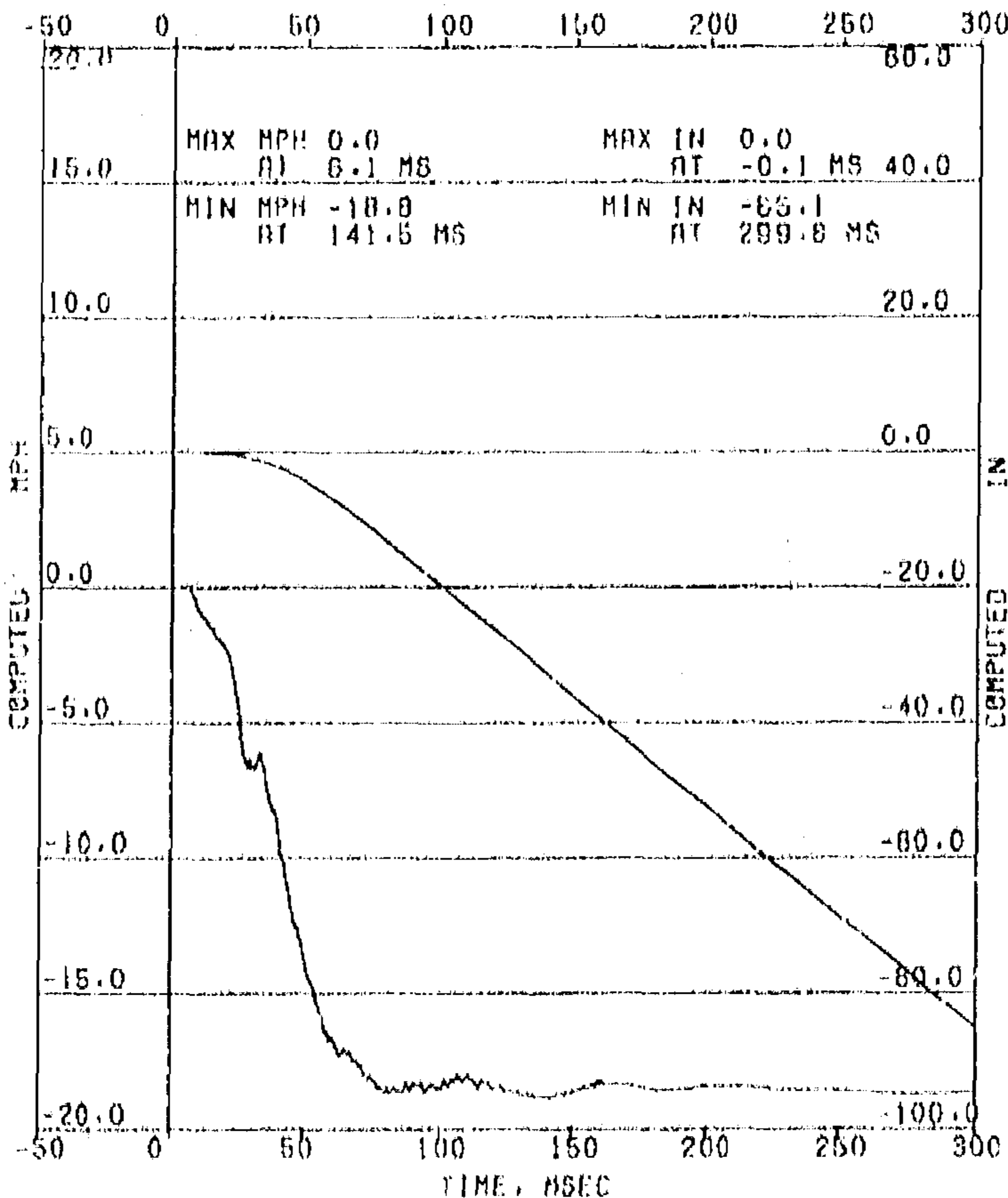
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ERRATA 1



FILTER TYPE: 000AS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 08/27/99DM
 ERRATA 1

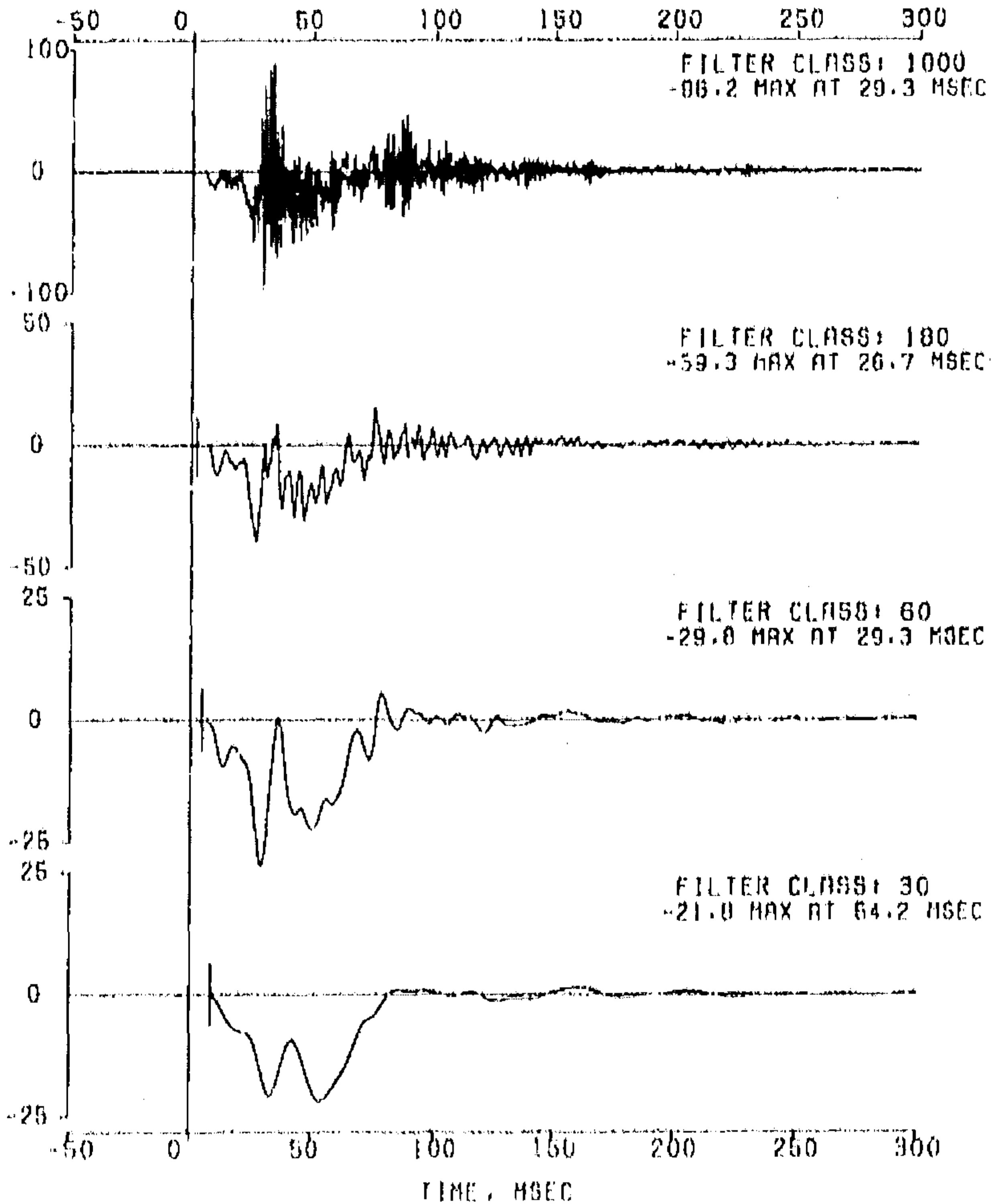


COMPUTED MPH
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VC07748 30 MPH REAR MOVING BARRIER, KJ1-74, ITEM KJ4264R
2002 MY86 301 REAR IMPACT DEVELOPMENT
CHANNEL 034 RT RAD MID SUPPORT RR X J14509
FILTER TYPE: OBD05-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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DATA SET 08/27/99AM
ERRATA 1



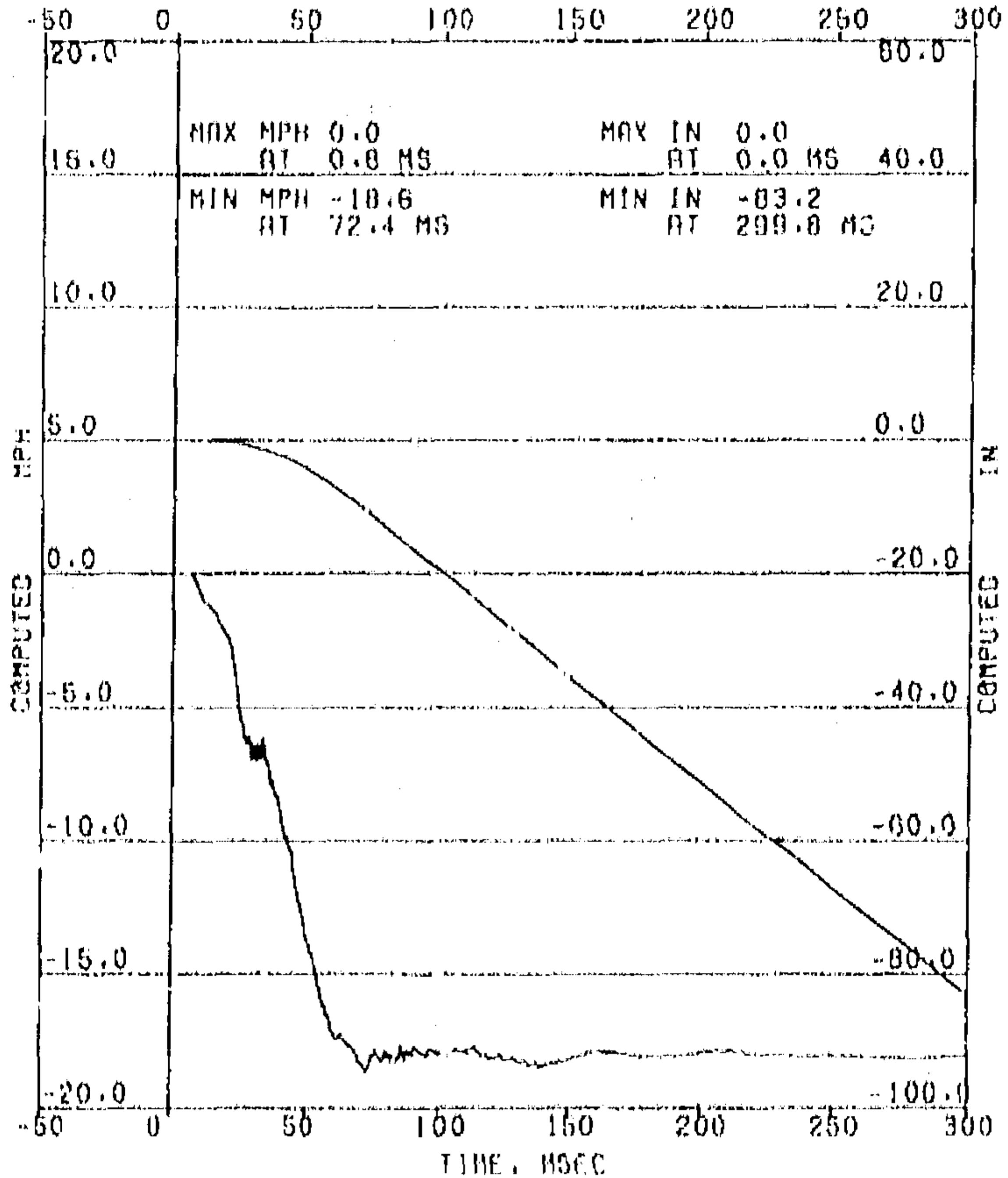
VC07746 30 MPH REAR MOVING BARRIER, KJ1-74, ITEM KJ426AR
 2002 MY38 J01 REAR IMPACT DEVELOPMENT
 CHANNEL 034 RT RAD MID SUPPORT RR X J14609

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FILTER TYPE: 000AS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1993

DATA SET 08/27/99BM
 ERRATA 1

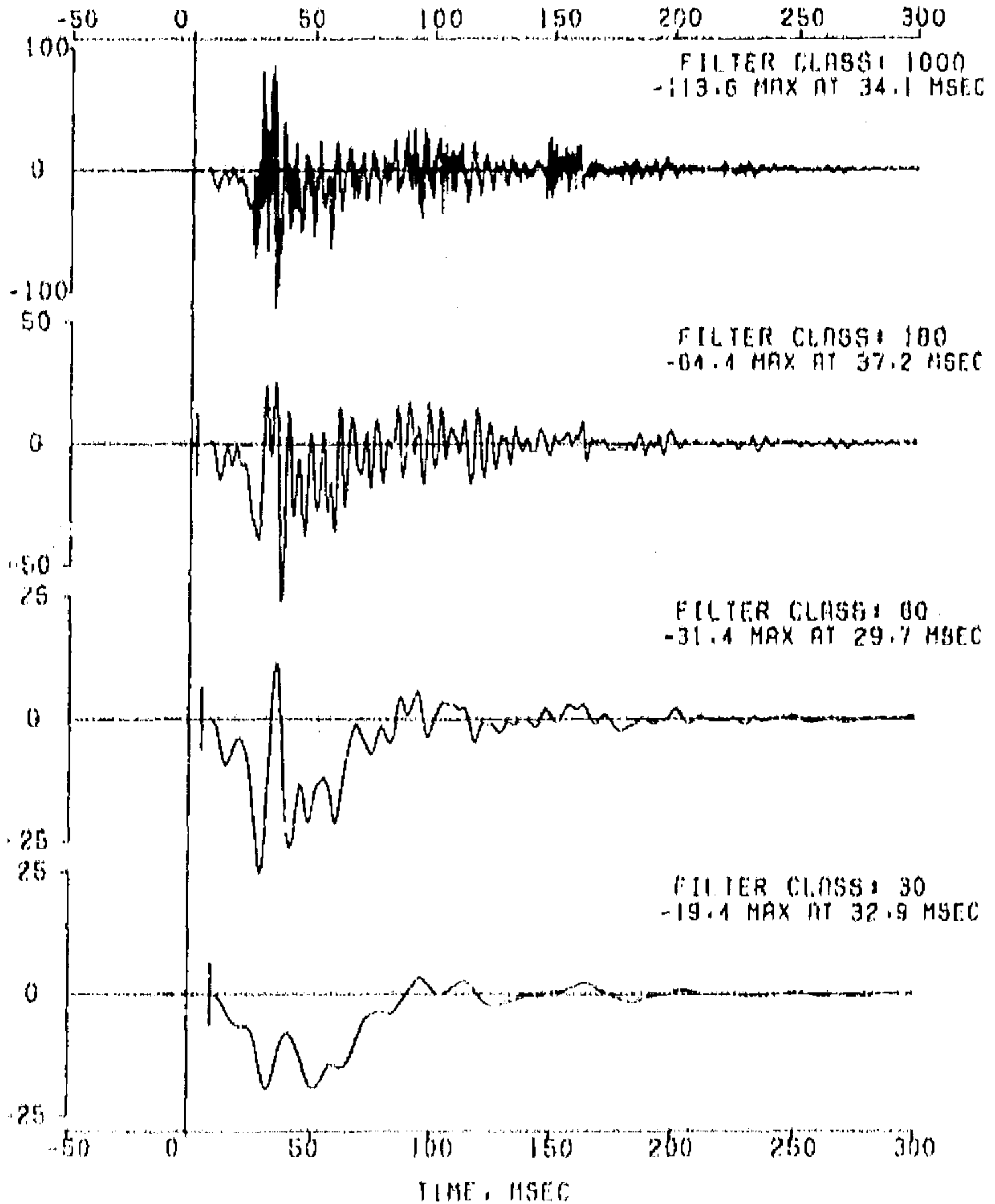


COMPUTED MPH
 COMPUTED IN

VC07748 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4284R
2002 MY86 301 REAR IMPACT DEVELOPMENT
CHANNEL 035 LT RAD UPR SUPPBR1 RR X J27140
FILTER TYPE: 080AS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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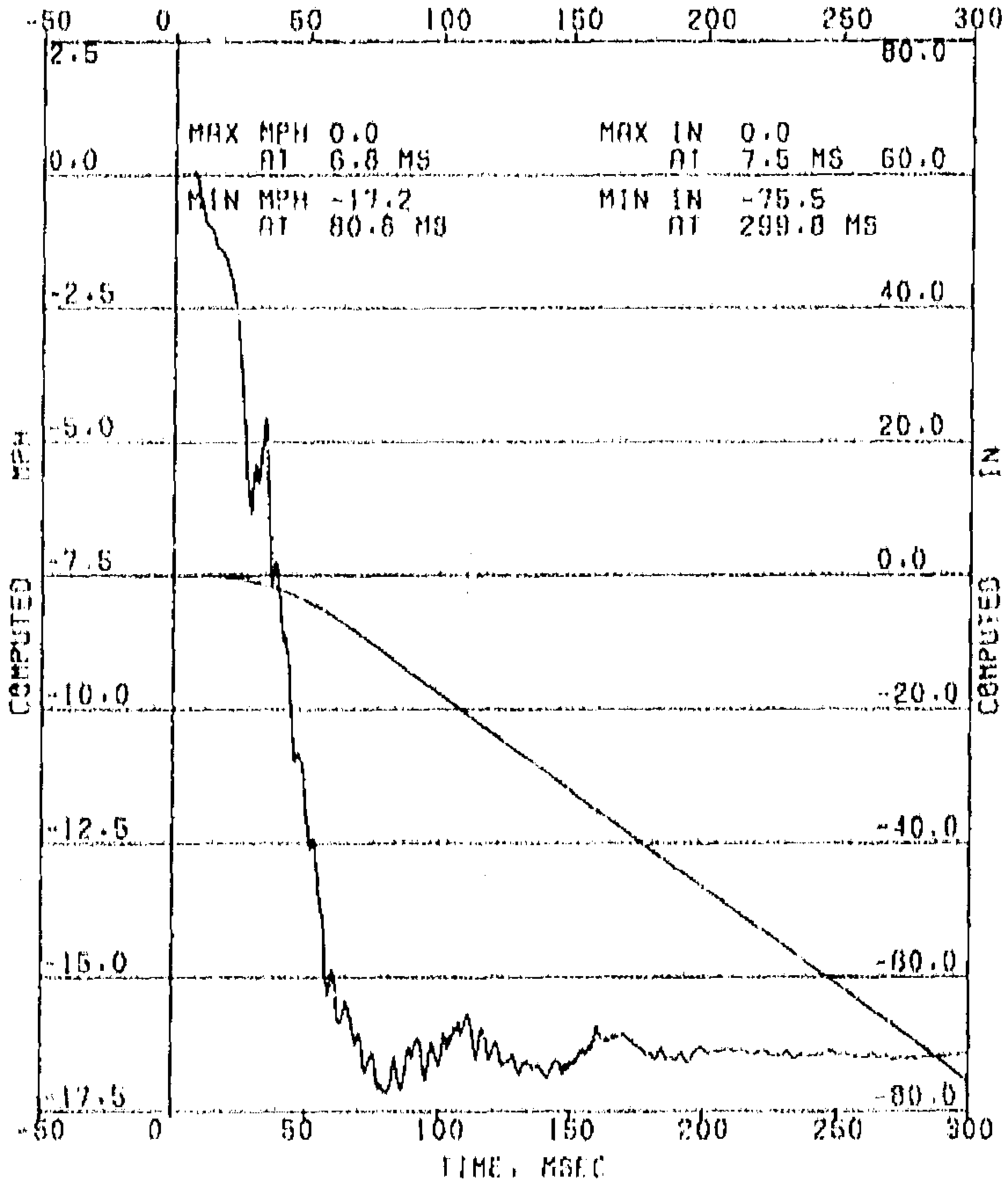
DATA SET 08/27/99DM
ERRATA 1



FILTER TYPE: 08085-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 00/27/9908
 ERRATA 1

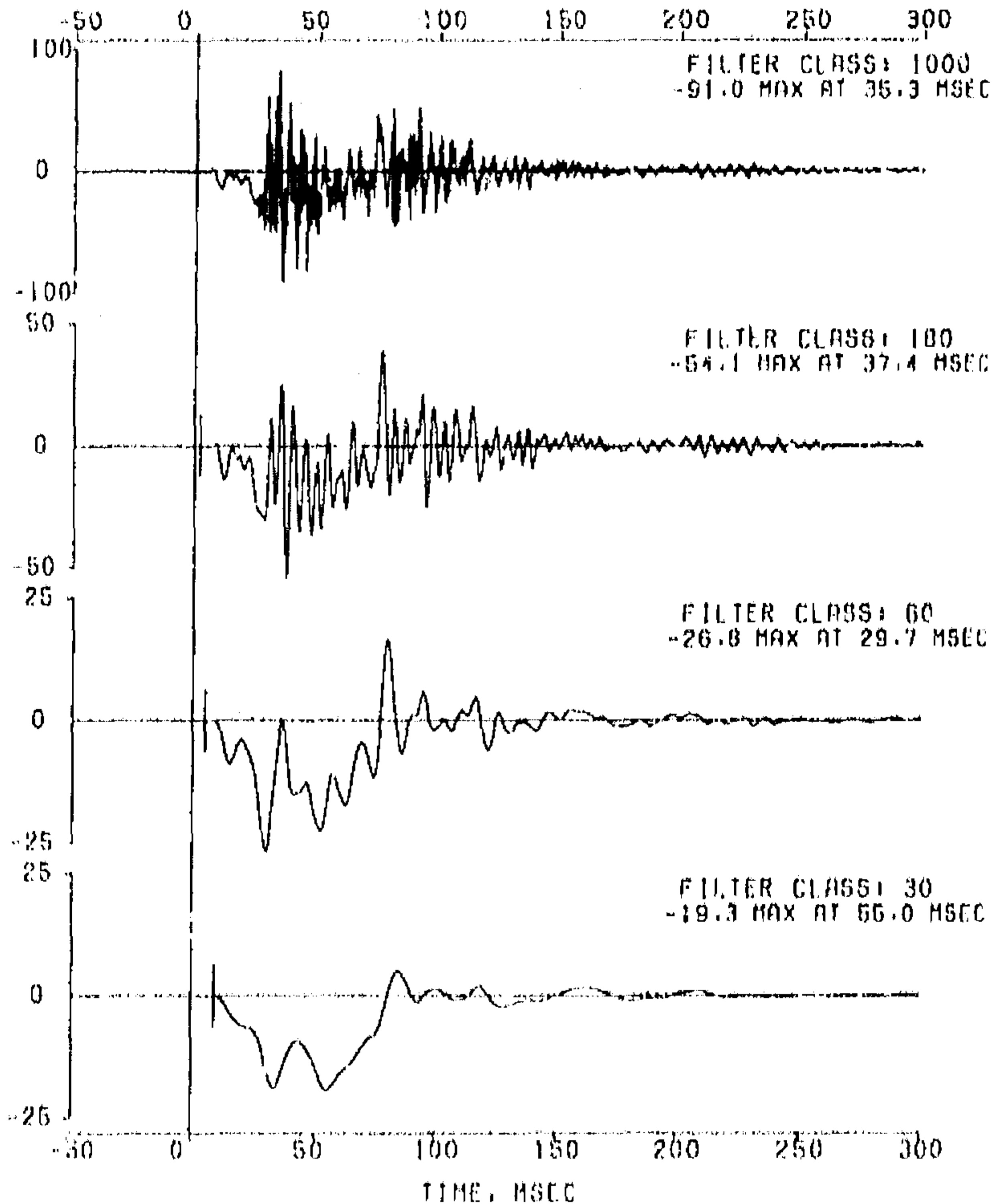


COMPUTED MPH
 COMPUTED IN

VC07740 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ42643
2002 MYSS 901 REAR IMPACT DEVELOPMENT
CHANNEL 036 RT RND UPR SUPPORT RR X J28656
FILTER TYPE: 000S-III RESPONSE CORRECTION, CLASS 1000 FILTER(1600)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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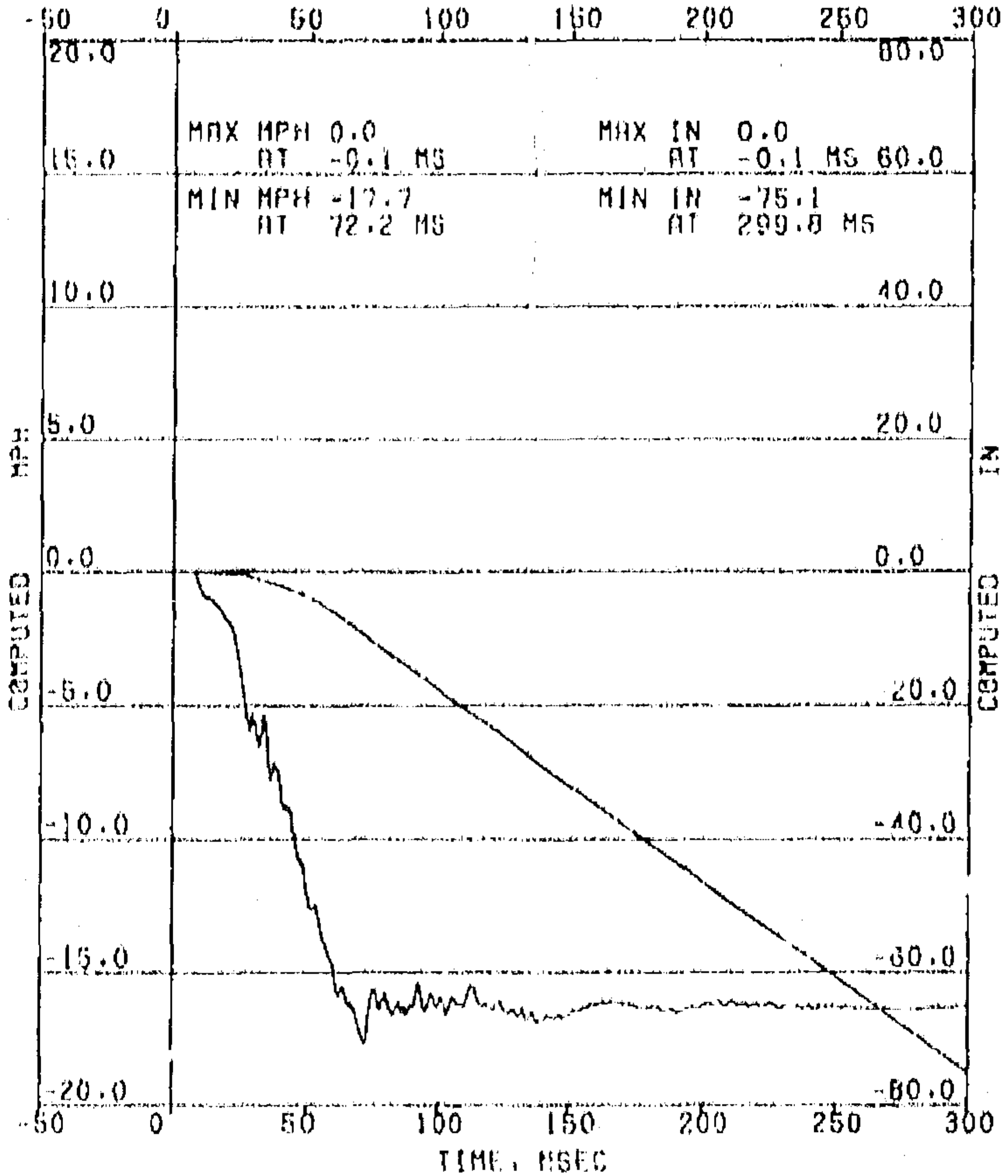
DATA SET 08/27/99BH
ERRATA 1



FILTER TYPE: CBDS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

DATA SET 08/27/99BM
ERRATA 1



COMPUTED MPH
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VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4204R

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CHANNEL 037 LT RAIL RHD FT KICKUP X 9PIL3

FILTER TYPE: OBDS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1660)

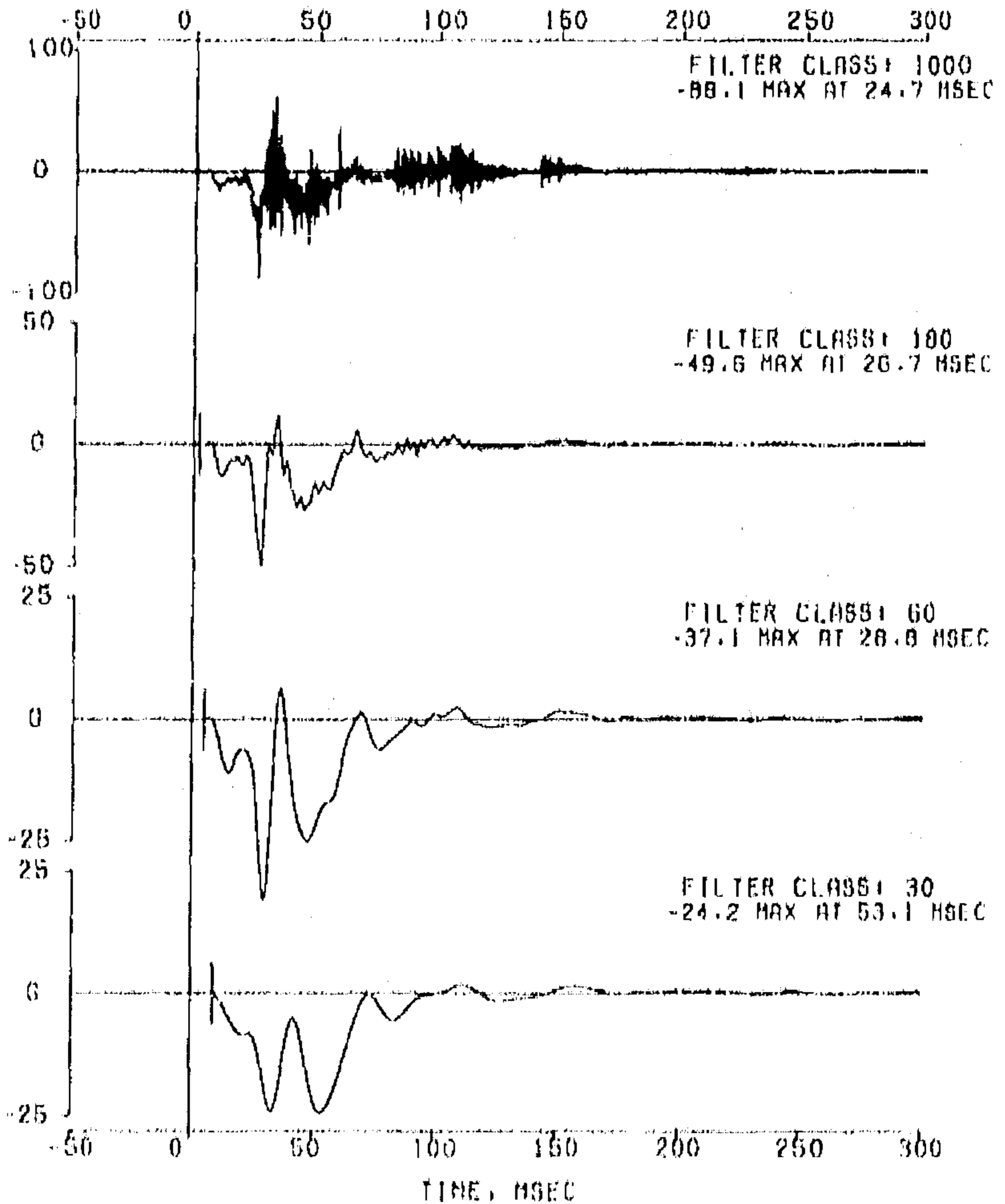
IMPACT ANALYSIS DEPT. 5920

DATA SET 08/27/98BH

NOV 27, 1999

ERRATA

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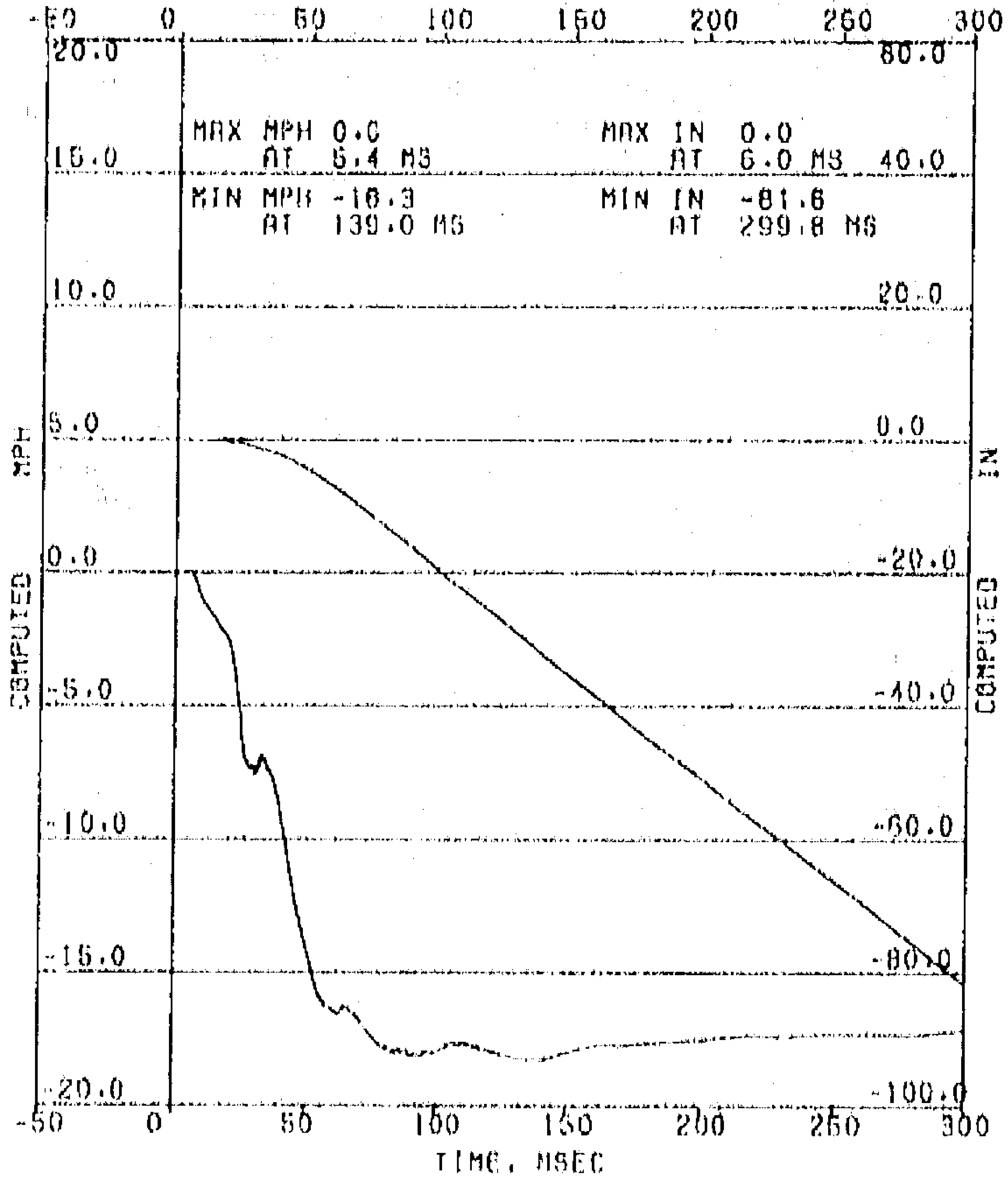
VC07748 30 MPH REAR MOVING BARRIER, KJ1-74, ITEM KJ4284R
 2002 MYGG 301 REAR IMPACT DEVELOPMENT
 CHANNEL 037 LT RAIL RWD FT KICKUP X AP1L3

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FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1000)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

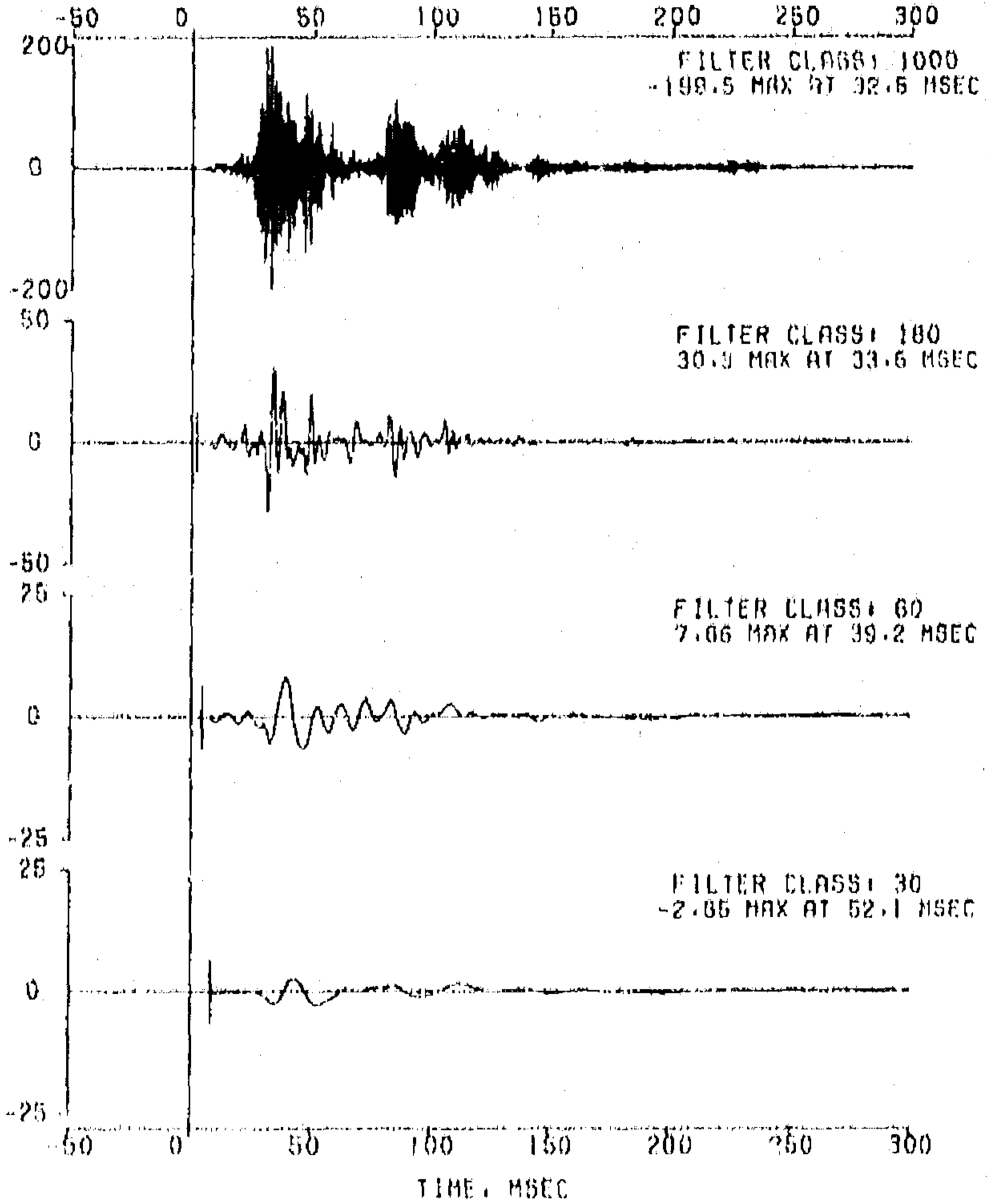
DATA SET 08/27/99BM
 ERRATA 1



COMPUTED MPH
 COMPUTED IN

Y007746 30 MPH REAR MOVING BARRIER, KJ1-74, ITEM KJ4264R
2002 MY98 301 REAR IMPACT DEVELOPMENT
CHANNEL 038 LT RAIL RWD FT KICKUP Y J18290
FILTER TYPE: 080AS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1660)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

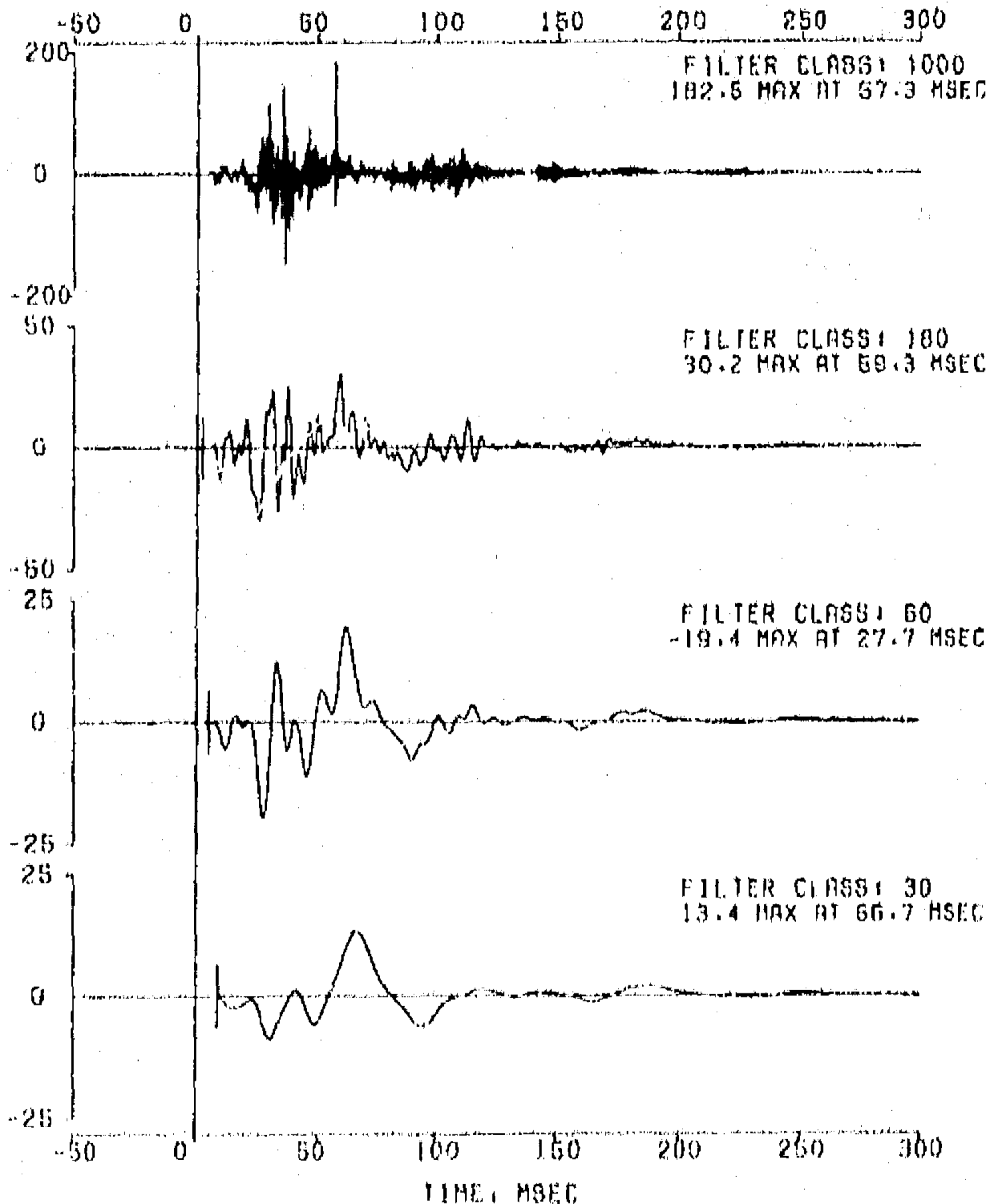
DATA SET 08/27/98BM
ERRATA 1



VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITER KJ4284R
2002 MY88 301 REAR IMPACT DEVELOPMENT
CHANNEL 039 LT RAIL RWD FT KICKUP Z A43FJ
FILTER TYPE: UBDAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1850)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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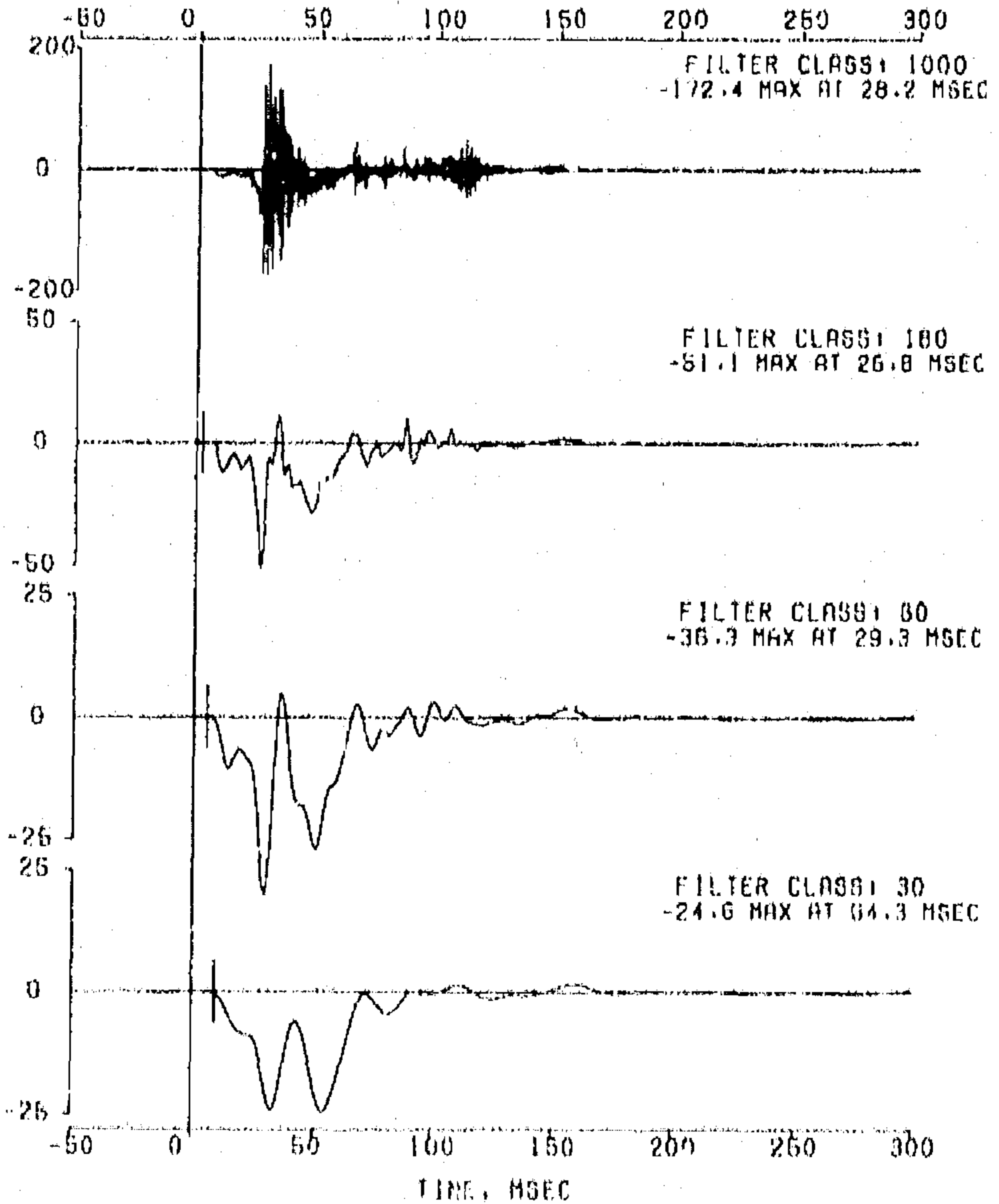
DATA SET 08/27/99AM
ERRATA 1



VC07746 30 MPH REAR MOVING BARRIER, RJI-74, ITEM KJ4264R
2002 MV88 301 REAR IMPACT DEVELOPMENT
CHANNEL 040 RT RAIL RWD FT KICKUP X J26949
FILTER TYPE: 0808B-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
RUB 27,1999

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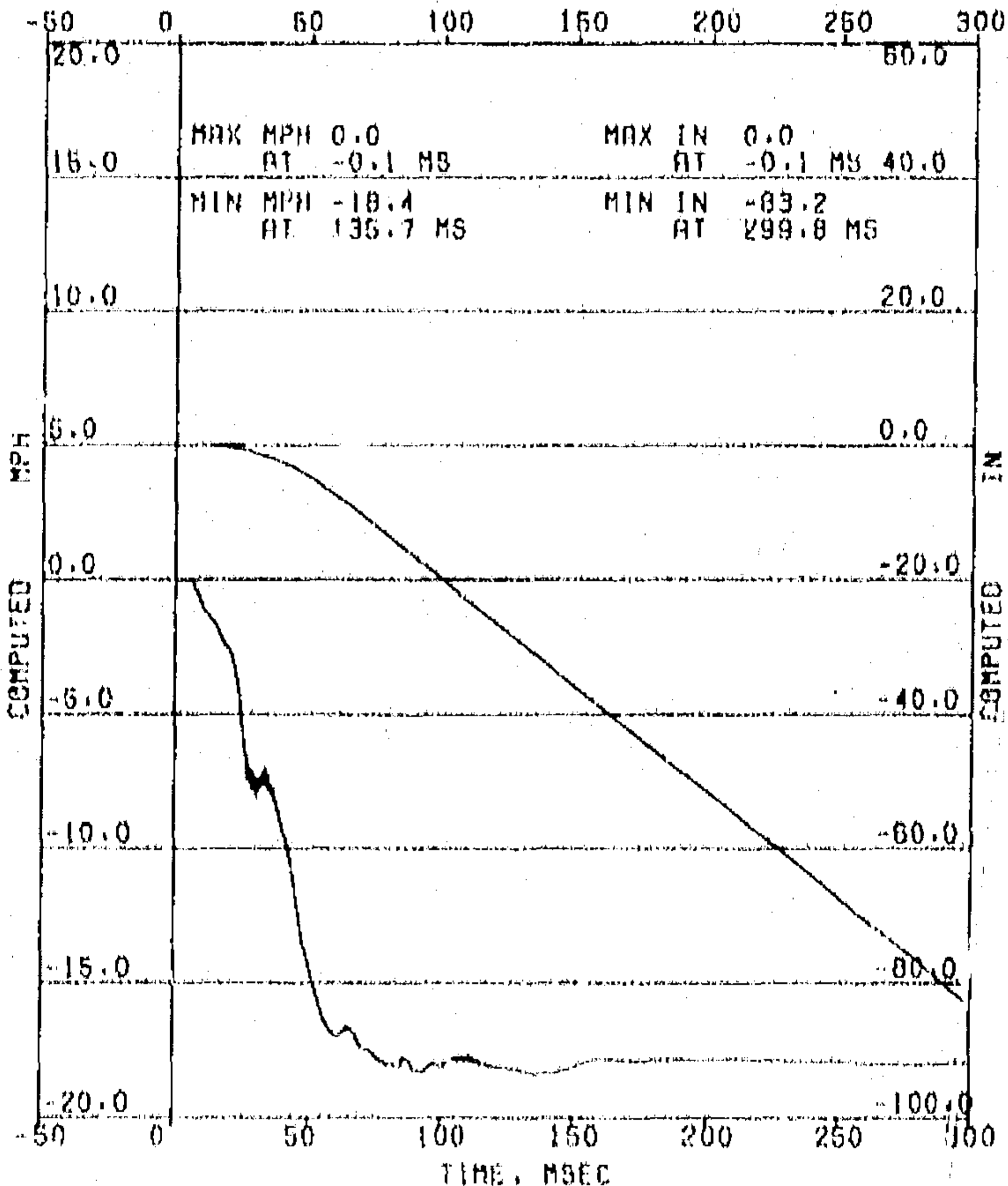
DATA SET 08/27/99BM
ERRATA 1



FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 08/27/99BK
 ERRATA 1



COMPUTED MPH
 COMPUTED IN

VC07746 90 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R

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CHANNEL 041 RT RAIL RWD FT KICKUP Y J26948

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1850)

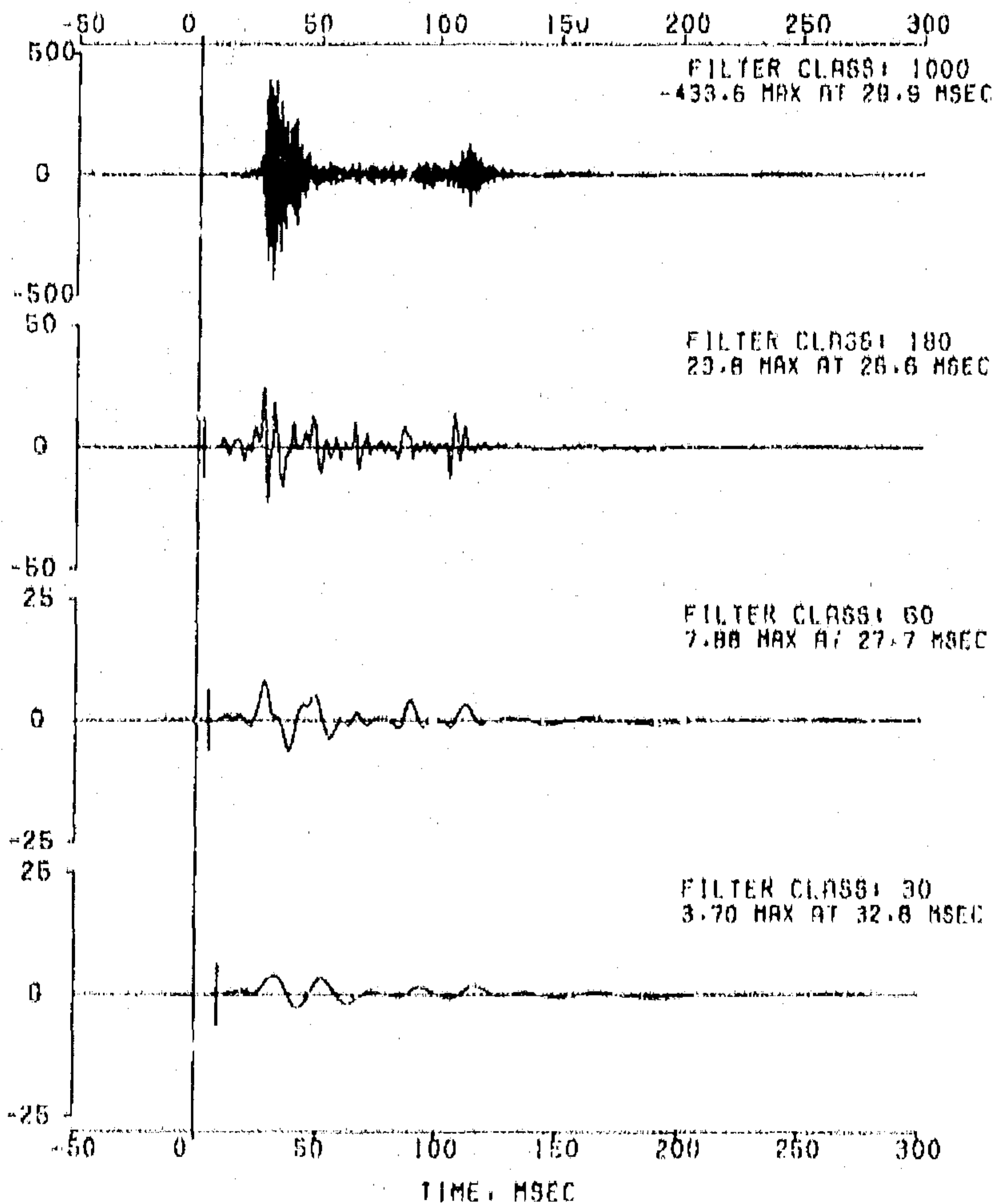
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DATA SET 08/27/99DM

AUG 27, 1999

ERRATA

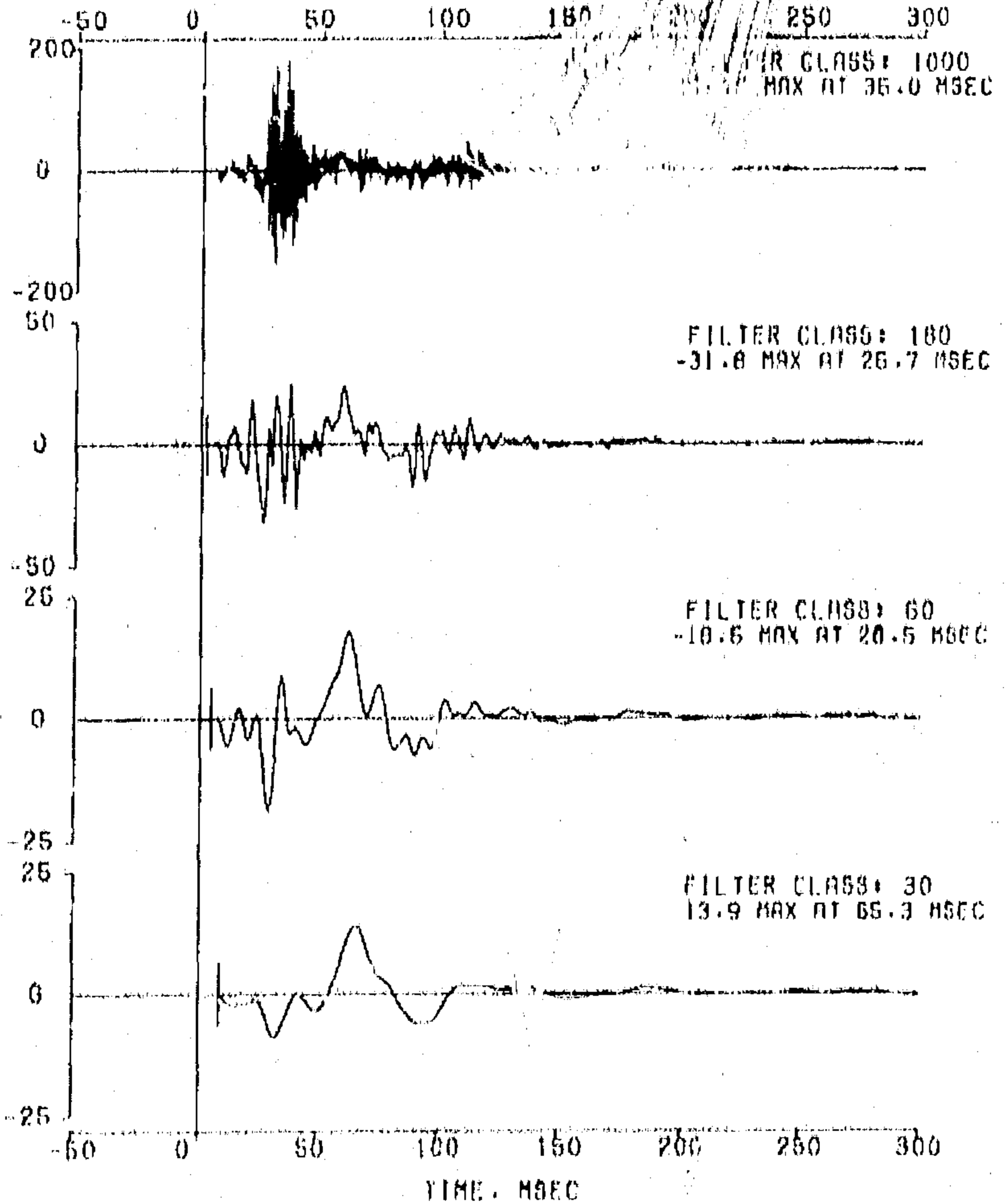
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VC07768 30 MPH REAR MOVING BARRIER. RUT-74. ITEM KJ4264R
2002 MY98 301 REAR IMPACT DEVELOPMENT
CHANNEL 042 AT RAIL RWD FT KICKUP X J28946
FILTER TYPE: OBOAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1050)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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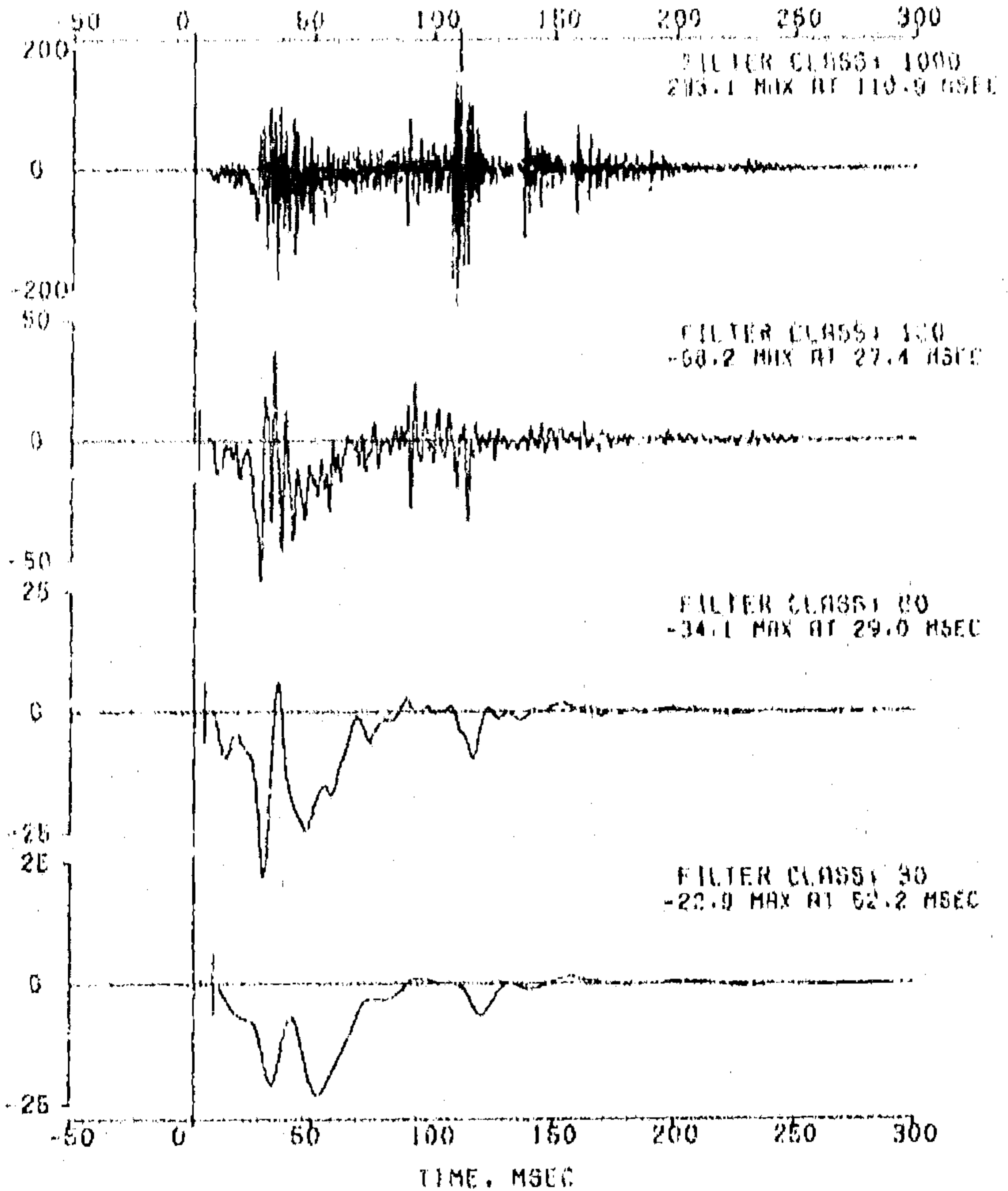
DATA SET 08/27/99DM
ERRATA 1



V007740 30 MPH REAR MOVING BARRIER, KJ1-74, ITEM R14284R
2002 MY88 301 REAR IMPACT DEVELOPMENT
CHANNEL 043 LT LT XMR SENSOR LOC X R13082A
FILTER TYPE: 00005-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1993

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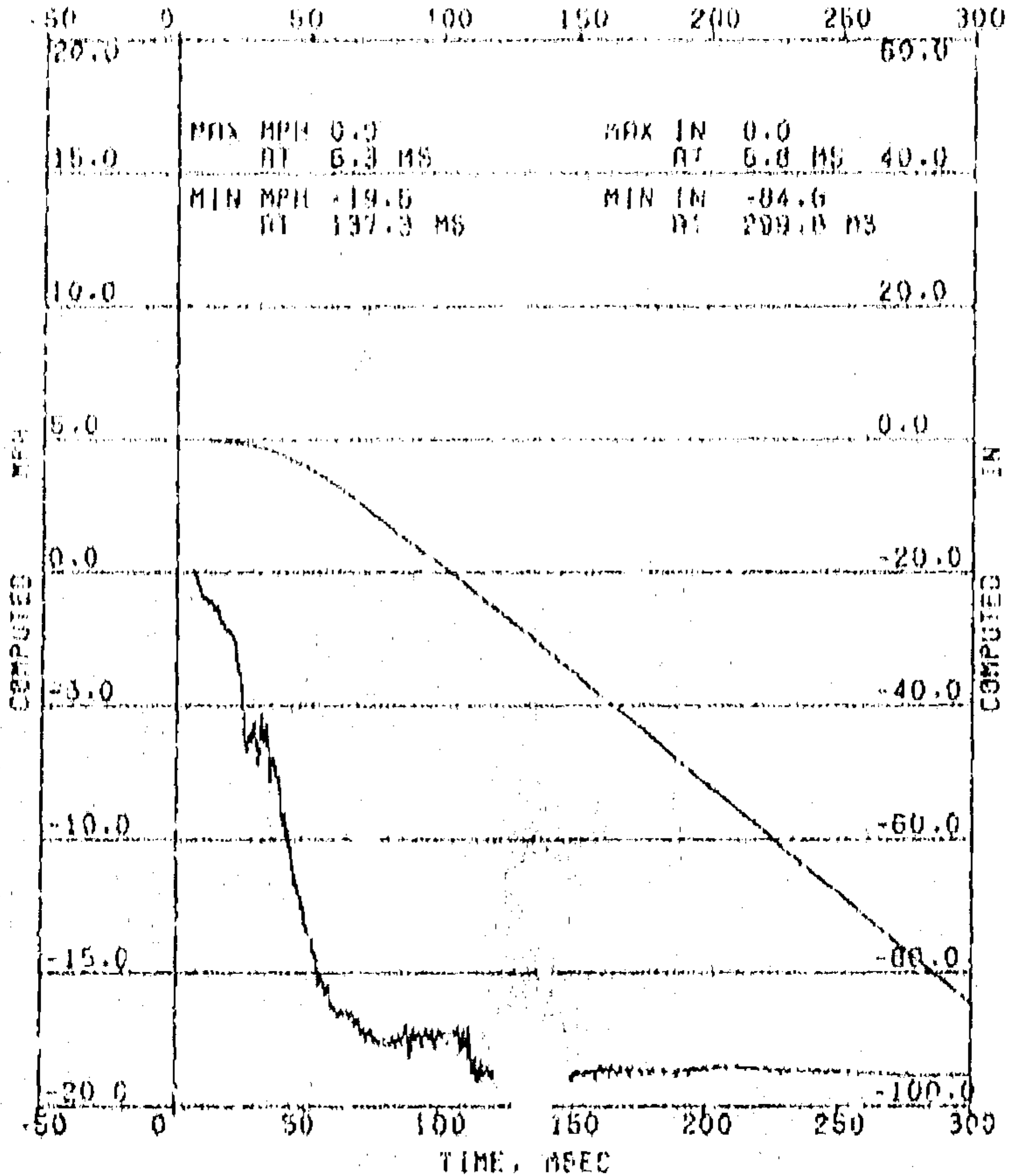
DATA SET 08/27/9308
ERRATA)



FILTER TYPE: 3000S 111 RESPONSE CORRECTION, CLASS 1000 FILTER: 950
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 8320
 800 27, 1998

DATA SET 08/27/9808
 ERRATA 1



COMPUTED MPH
 COMPUTED IN

V807740 30 MPH REAR MOVING BARRIER, KJ1-74, ITEM XJ4264R

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CHANNEL 044 LT FT XMR SENSOR LOC Y 014252

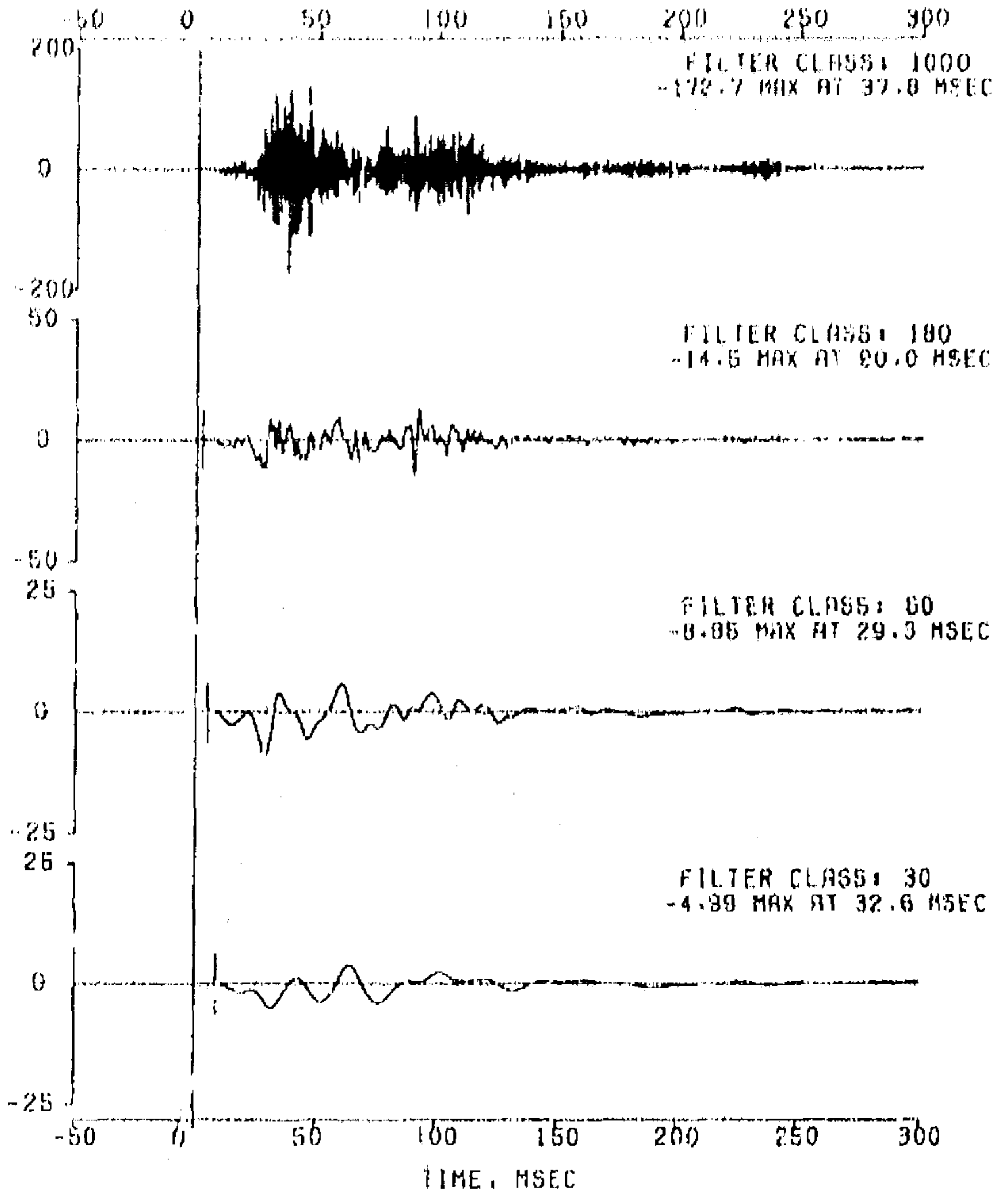
FILTER TYPE: ODDHS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)

IMPACT ANALYSIS DEPT. 6320

DATA SET 08/27/99DM

AUG 27, 1999

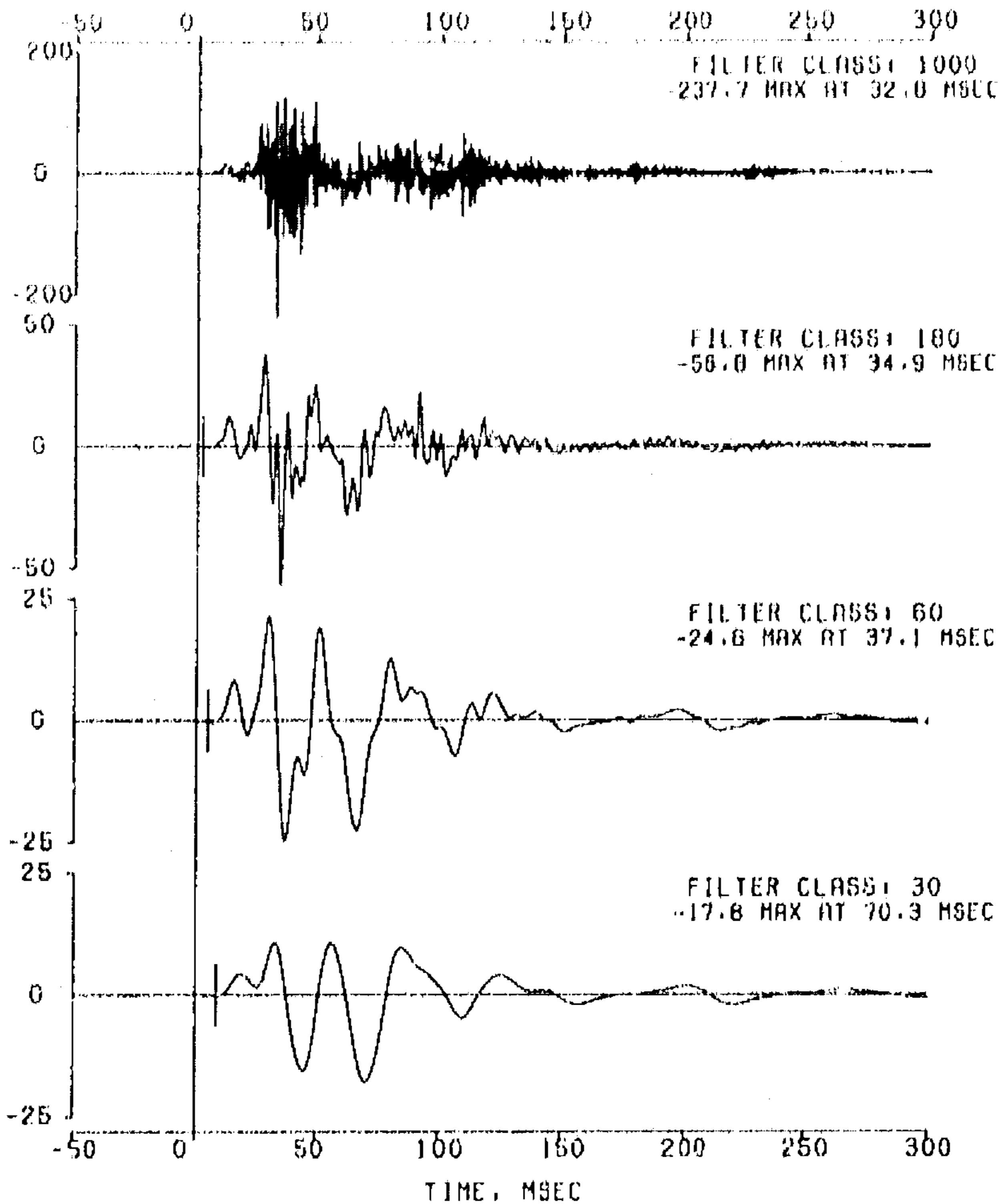
ERRATA 1



VC07246 30 MPH REAR MOVING BARRIER, KJF-74, ITEM KJ4264K
2002 HYGS 301 REAR IMPACT DEVELOPMENT
CHANNEL 045 LT FT ZMR SENSOR LOC Z R15007
FILTER TYPE: 00DHS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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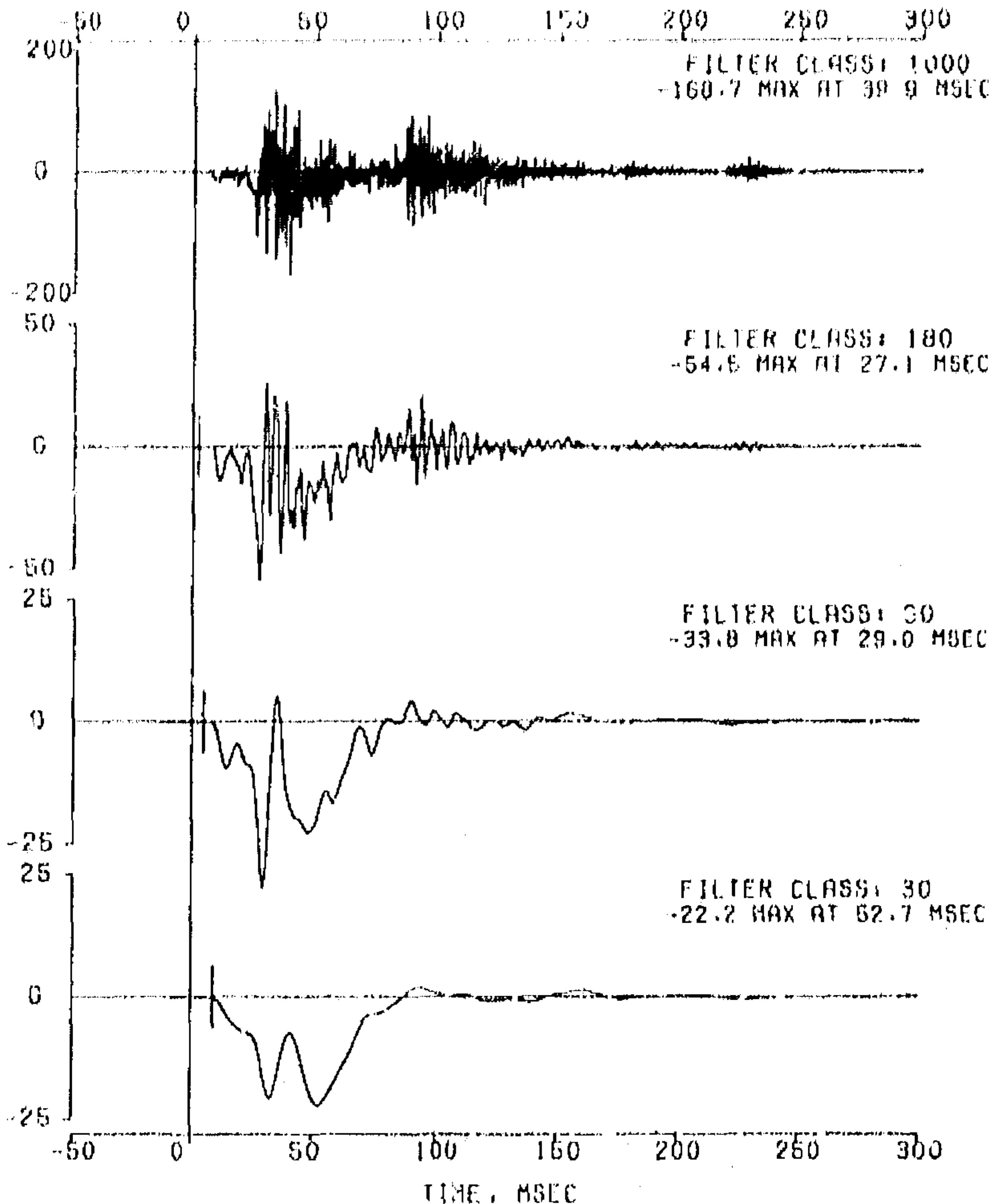
DATA SET 08/27/99BM
ERRATA 1



VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM WJ4264R
2002 MY65 301 REAR IMPACT DEVELOP ENT
CHANNEL 046 R1 FT XMR SENSOR LOC X R13085
FILTER TYPE: 00085-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1660)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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DATA SET 08/27/99DM
ERRATA 1



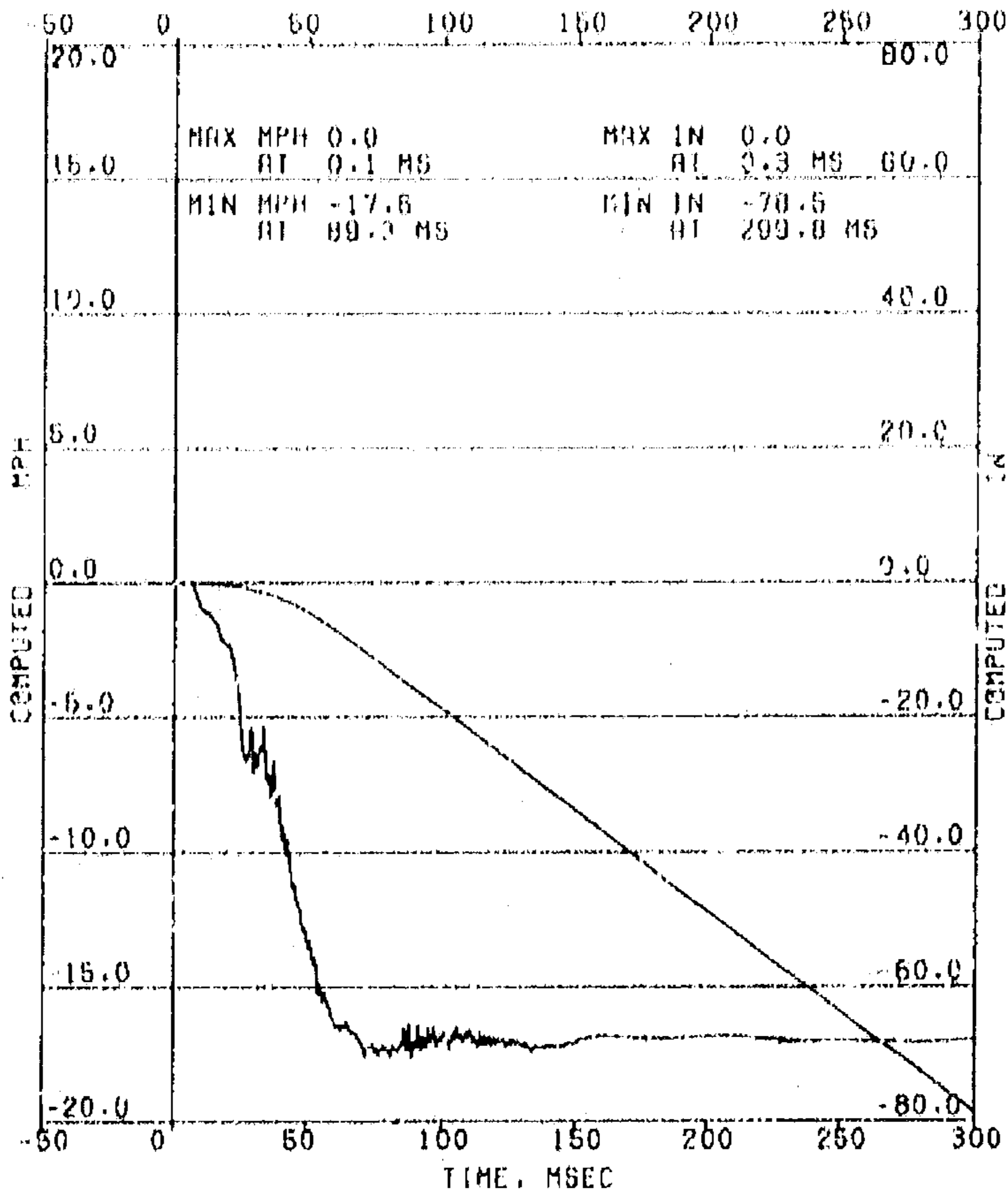
Y007746 30 MPH REAR MOVING BARRIER, RPT-74, ITEM K04264R
 2002 MY58 301 REAR IMPACT DEVELOPMENT
 CHANNEL 046 RT FT XBAR SENSOR LOC X 013285

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FILTER TYPE: 0000B-III RESPONSE CORRECTION, CL 65 1000 FILTER(1660)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 08/27/95BM
 ERRATA 1

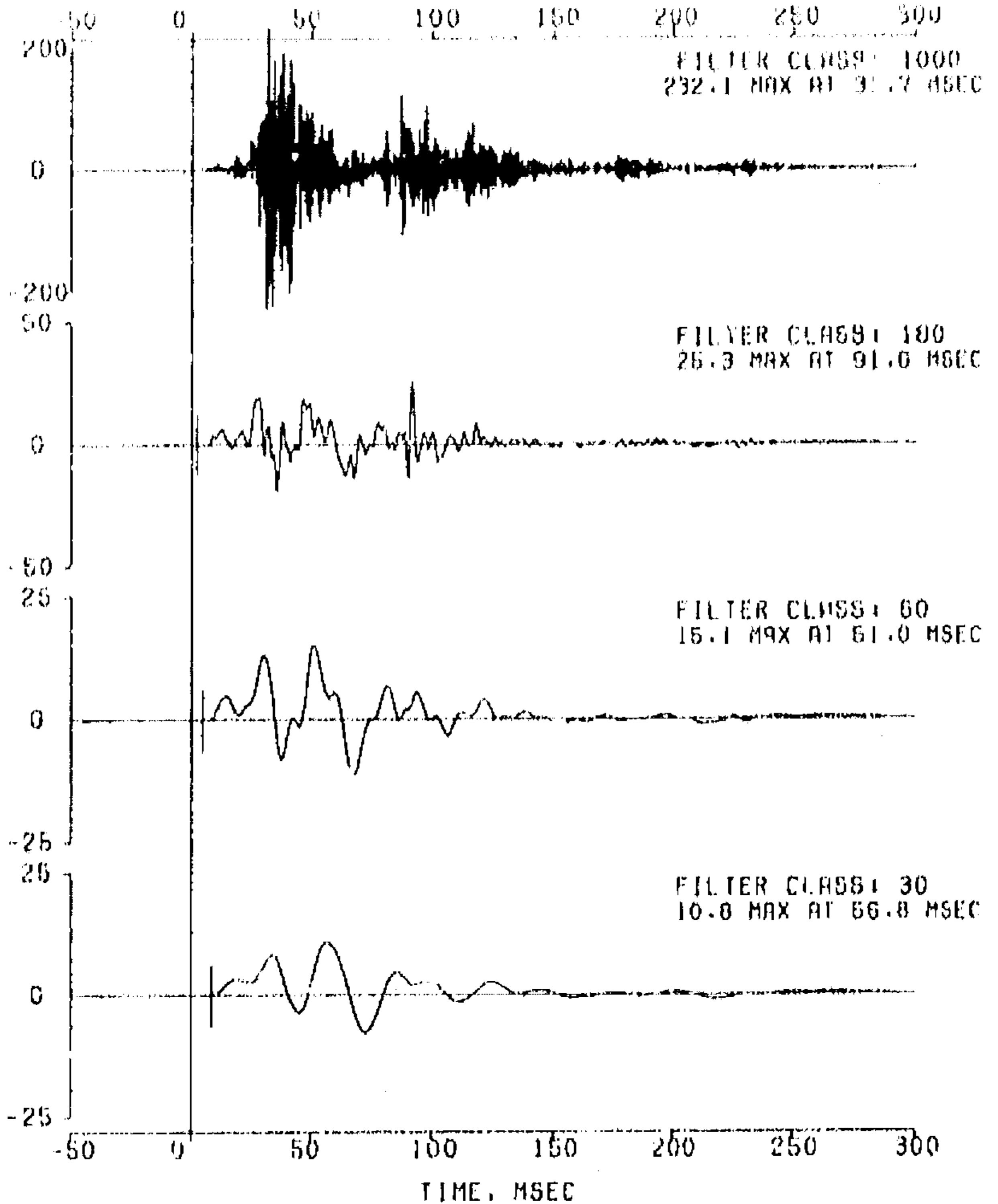


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VC07746 00 MPH REAR MOVING BARRIER, KJ1-74, ITEM KJ4264R
2002 HYUN 301 REAR IMPACT DEVELOPMENT
CHANNEL 037 RT FT XDR SENSOR LOC Y H13460
FILTER TYPE: BBDS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1050)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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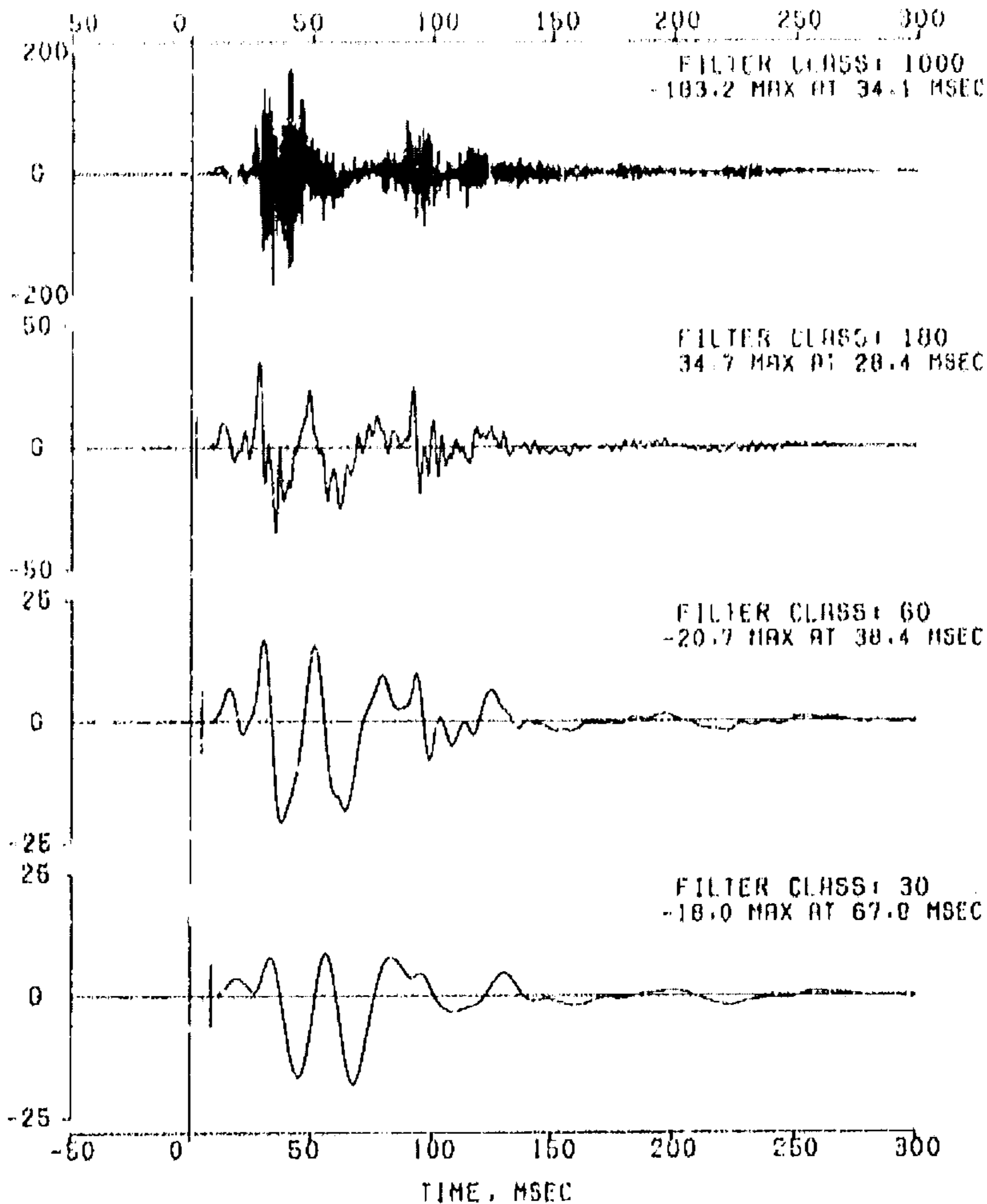
DATA SET 08/27/99BH
ERRATA 1



V207740 30 MPH REAR MOVING BARRIER, KJF-74, ITEM KJ4204R
2002 MYSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 040 RT FT XMR SENSOR LOC Z H14550
FILTER TYPE: 00003-111 RESPONSE CORRECTION, CLASS .000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
NOV 27, 1999

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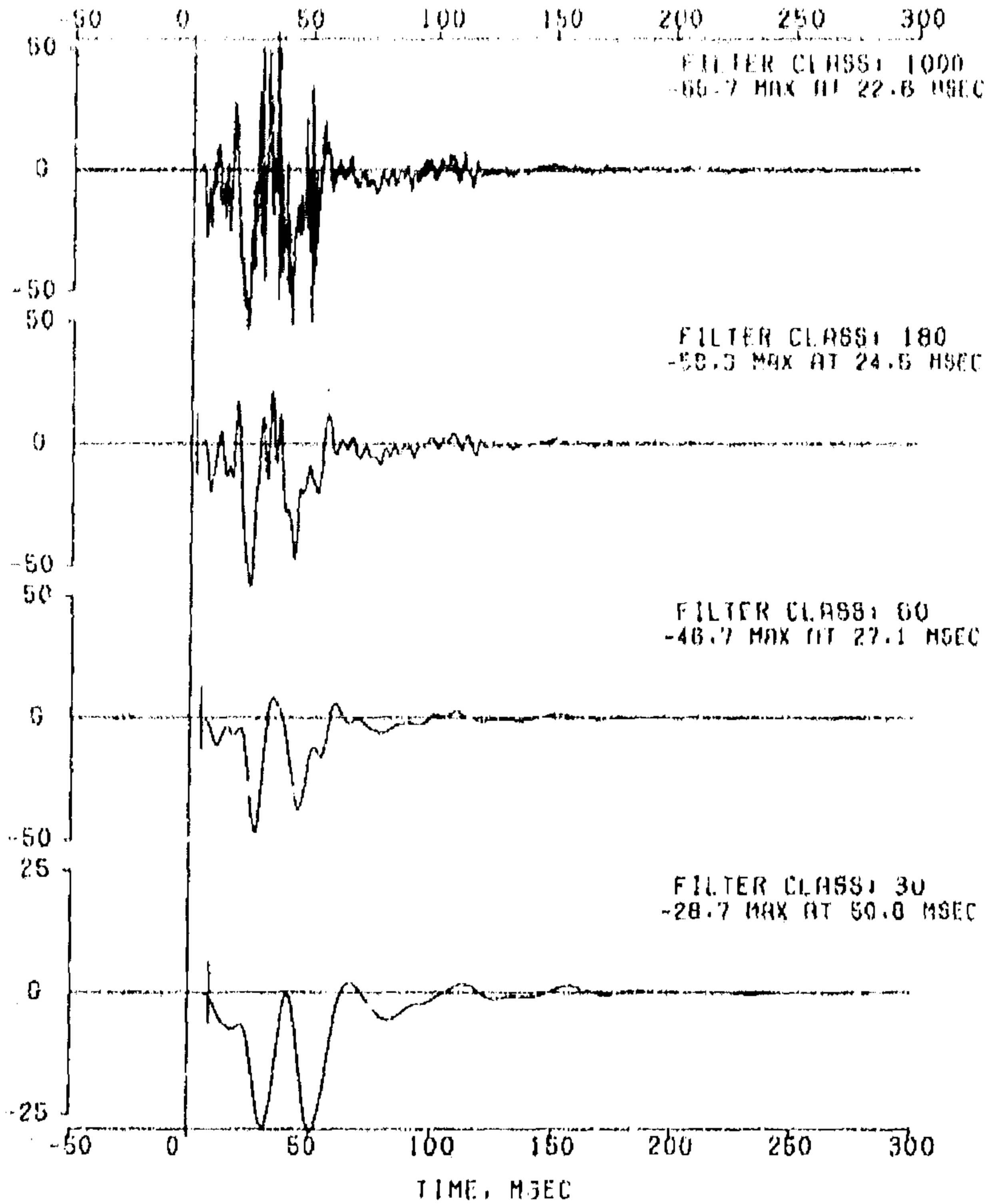
DATA SET 00/27/99DM
ERRATA 1



VC07748 30 MPH REAR MOVING OBSTACLE, KJ1-74, ITEM KJ4264R
2002 HYUN 301 REAR IMPACT DEVELOPMENT
CHRYSLER 049 LEFT RAIL MID TANK X PR202
FILTER TYPE: 08005-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1660)
IMPACT ANALYSIS DEPT. 5320
NOV 27, 1999

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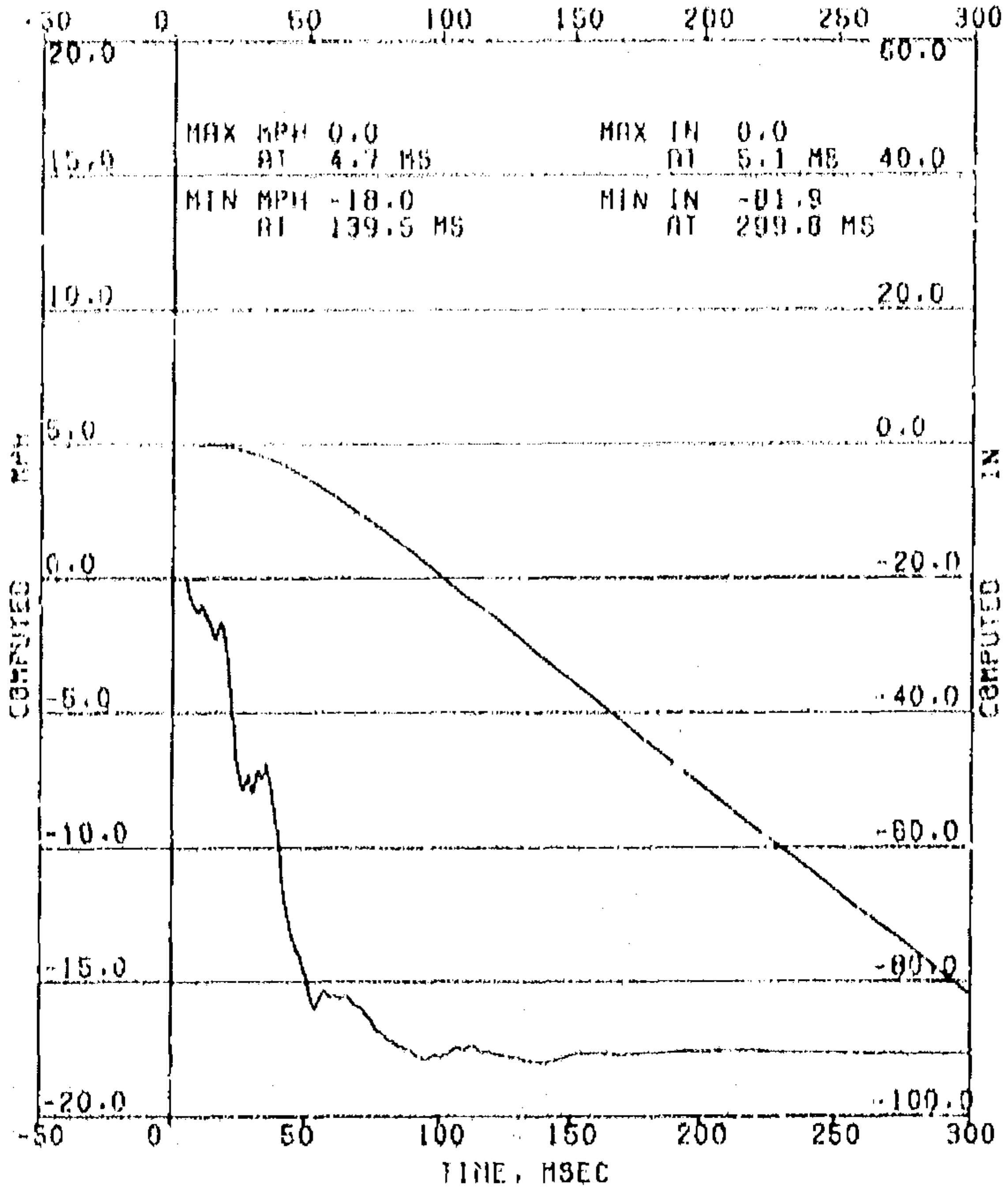
DATA SET 03/27/090N
ERRATA 1



FILTER TYPE: 88048-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1860)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

DATA SET 08/27/99BN
ERRATA 1

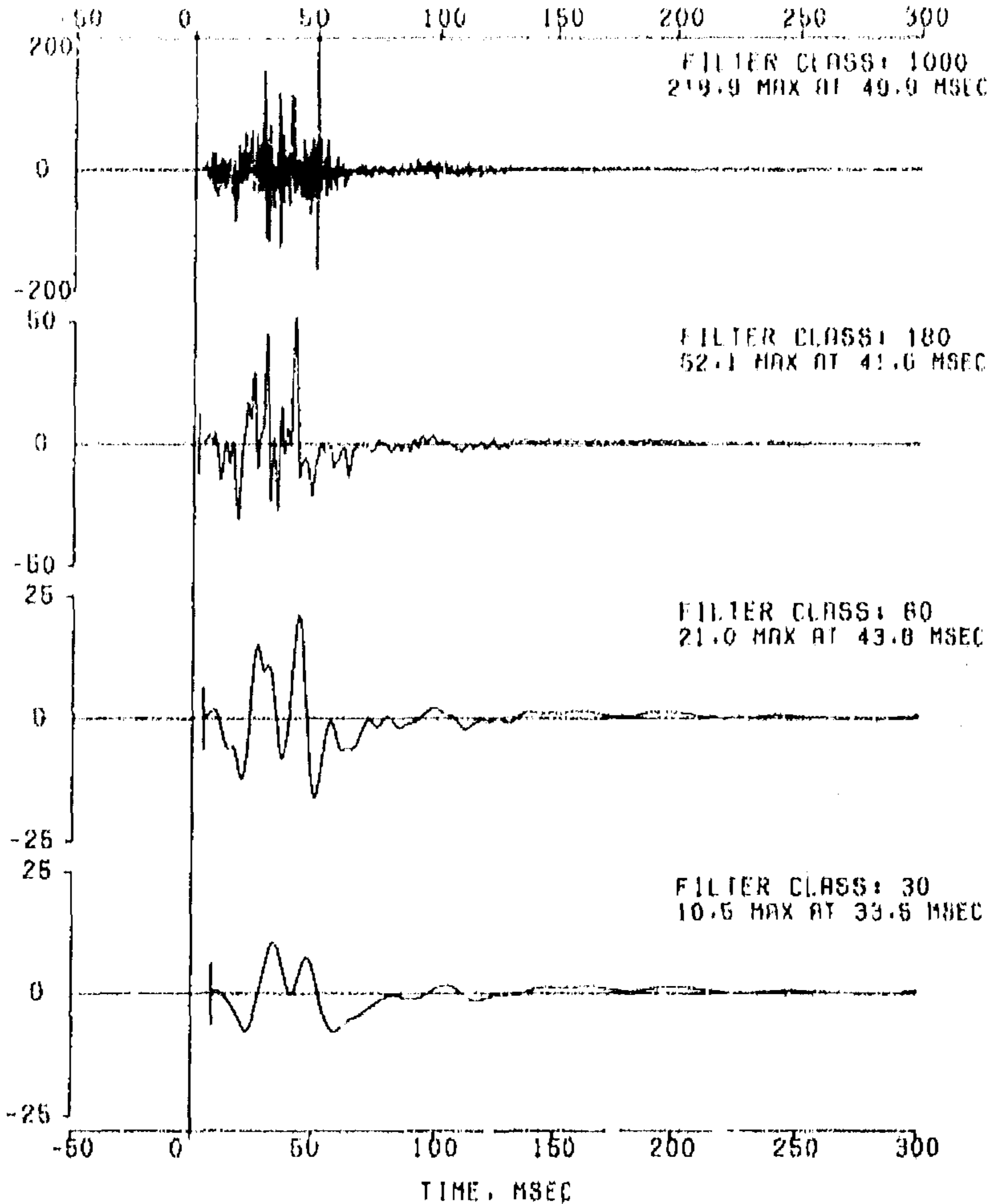


COMPUTED MPH
COMPUTED IN

VC07746 30 MPH REAR MOVING BARRIER. KJT-74. ITEM KJ4264R
2002 HYBR 301 REAR IMPACT DEVELOPMENT
CHANNEL 050 LEFT RAIL MID TANK 2 J20060
FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1.650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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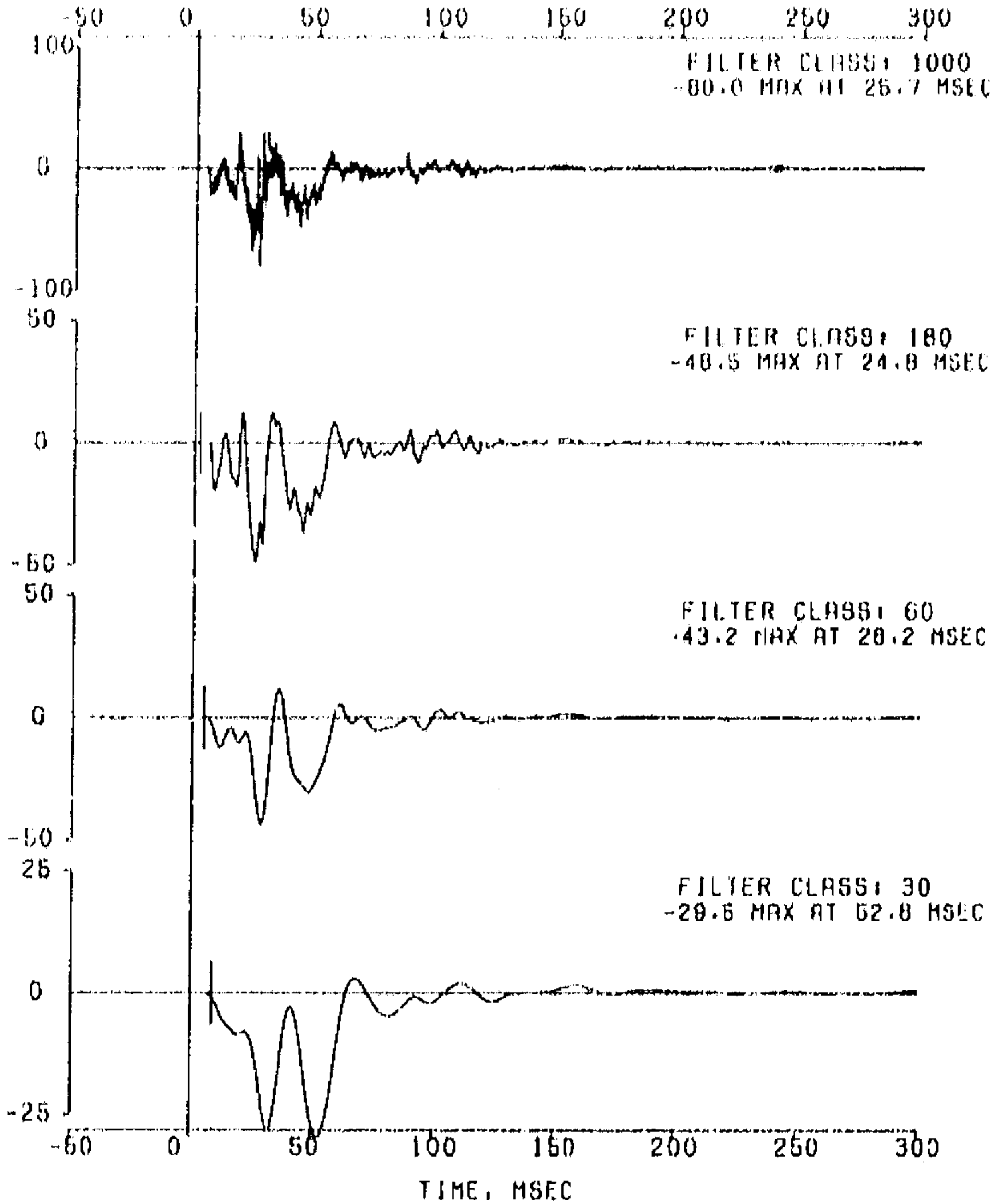
DATA SET 00/27/99BN
ERRATA 1



VC07748 30 MPH REAR MOVING BARRIER, KIT-74, ITEM KJ4284R
2002 MYSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 051 RIGHT RAIL MID TANK X J28870
FILTER TYPE: 08D08-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1660)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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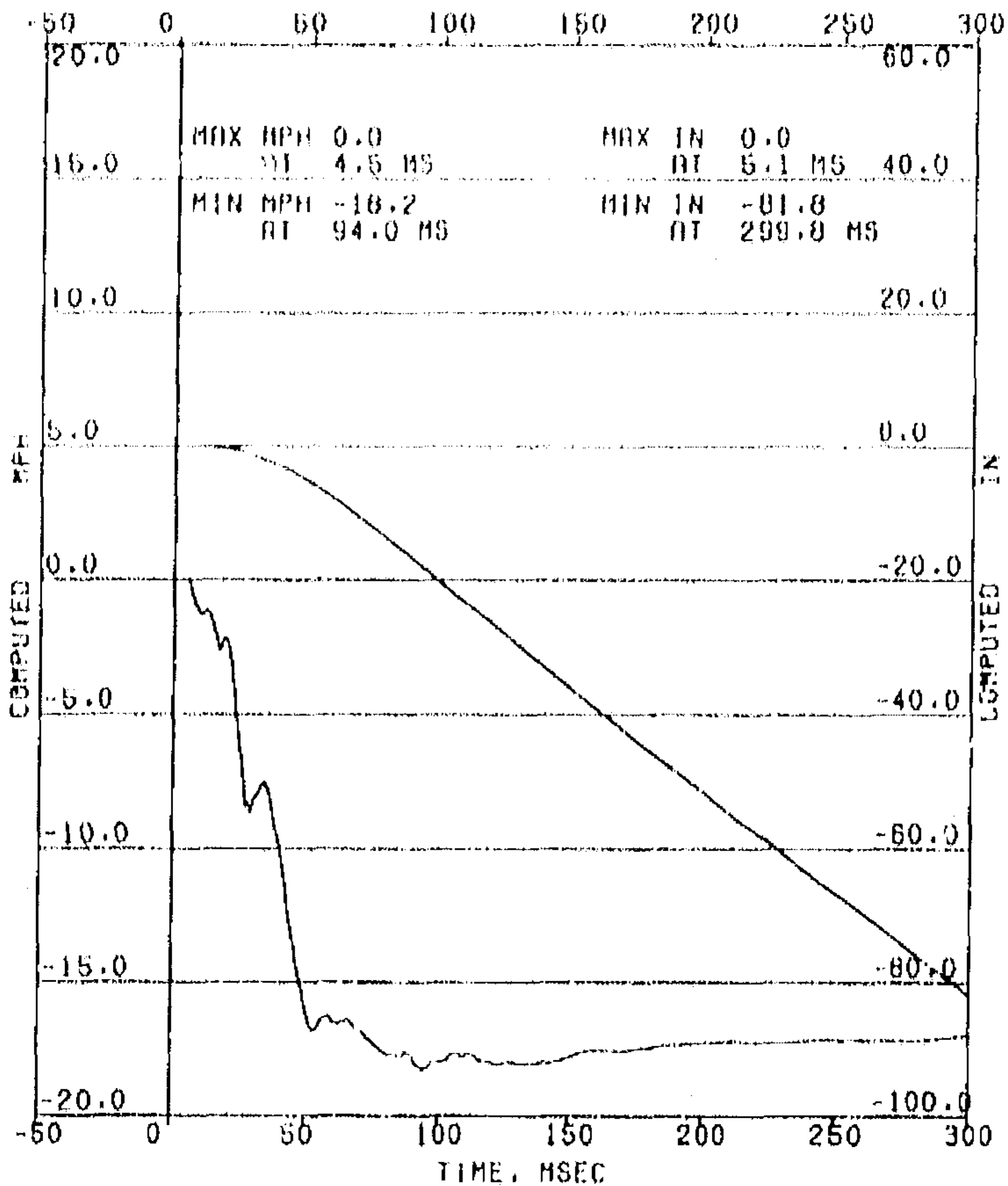
DATA SET 08/27/99ON
ERRATA 1



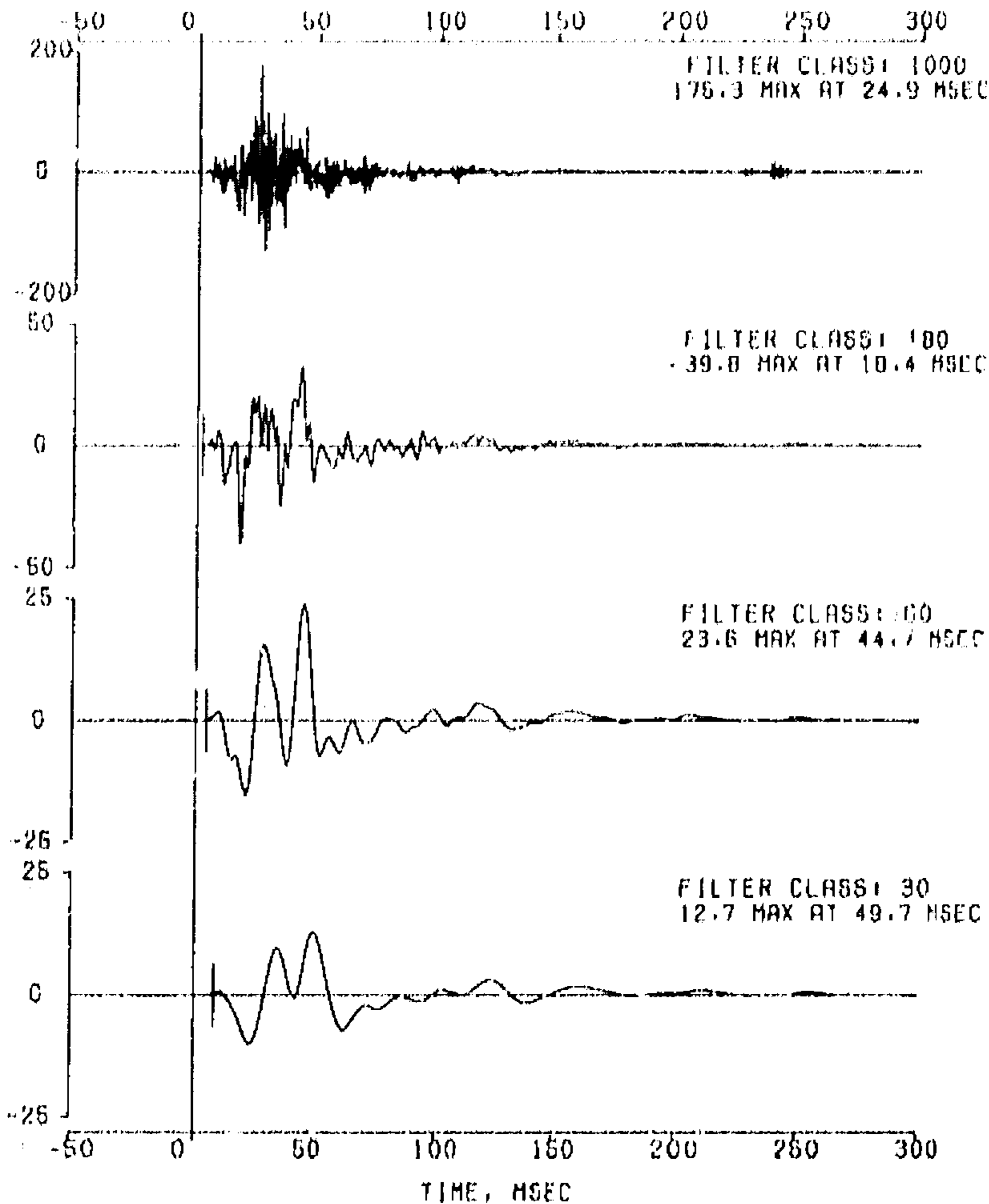
FILTER TYPE: 0808S-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 00/27, 0999
 ERRATA 1



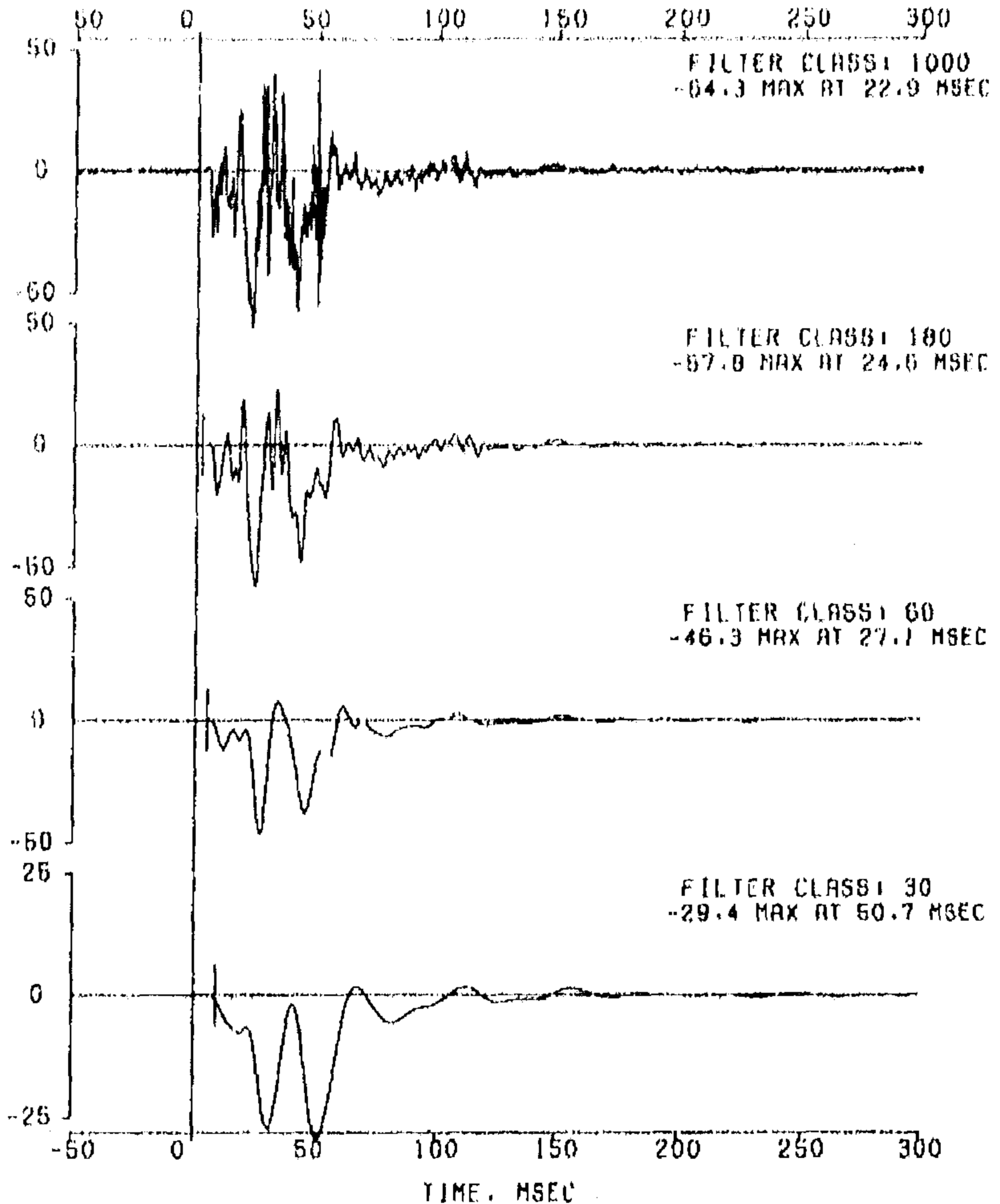
COMPUTED MPH
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VC07746 30 MPH REAR MOVING BARRIER. KJT-74. ITEM NJ4204R
2002 MY56 301 REAR IMPACT DEVELOPMENT
CHANNEL 053 FUEL TANK RL PASS-THRU J13401
FILTER TYPE: ODDAB-III RESPONSE CORRECTION. CLASS 1000 FILTER(1680)
IMPACT ANALYSIS DEPT. 5320
NOV 27, 1999

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DATA SET 08/27/99BN
ERRATA 1



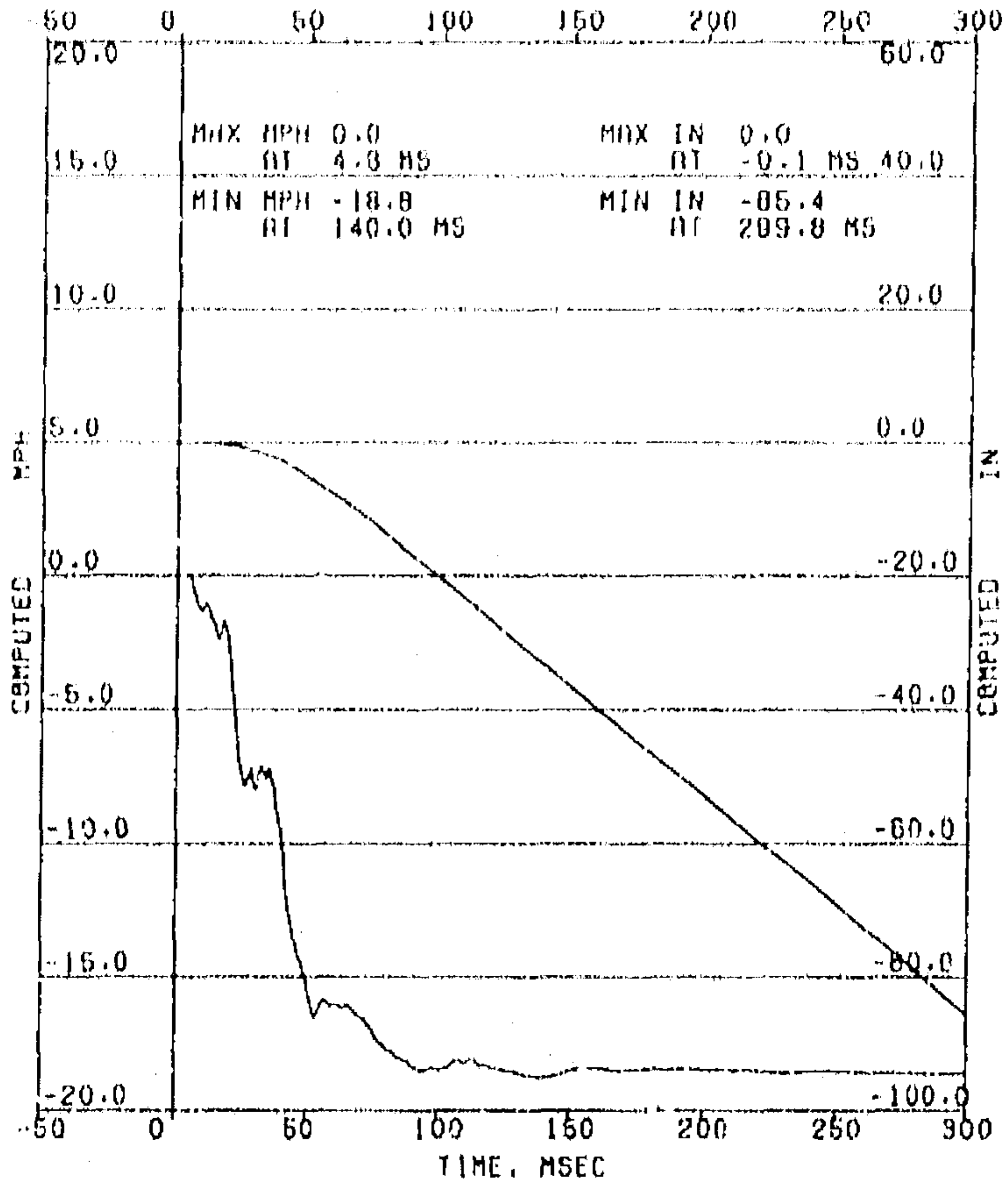
YC07748 30 MPH REAR MOVING BARRIER, KJ1-24, ITEM KJ42G4R
 2002 MY89 301 REAR IMPACT DEVELOPMENT
 CHANNEL 053 FUEL TANK RL PASS-THRU J13401

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FILTER TYPE: 0808S-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

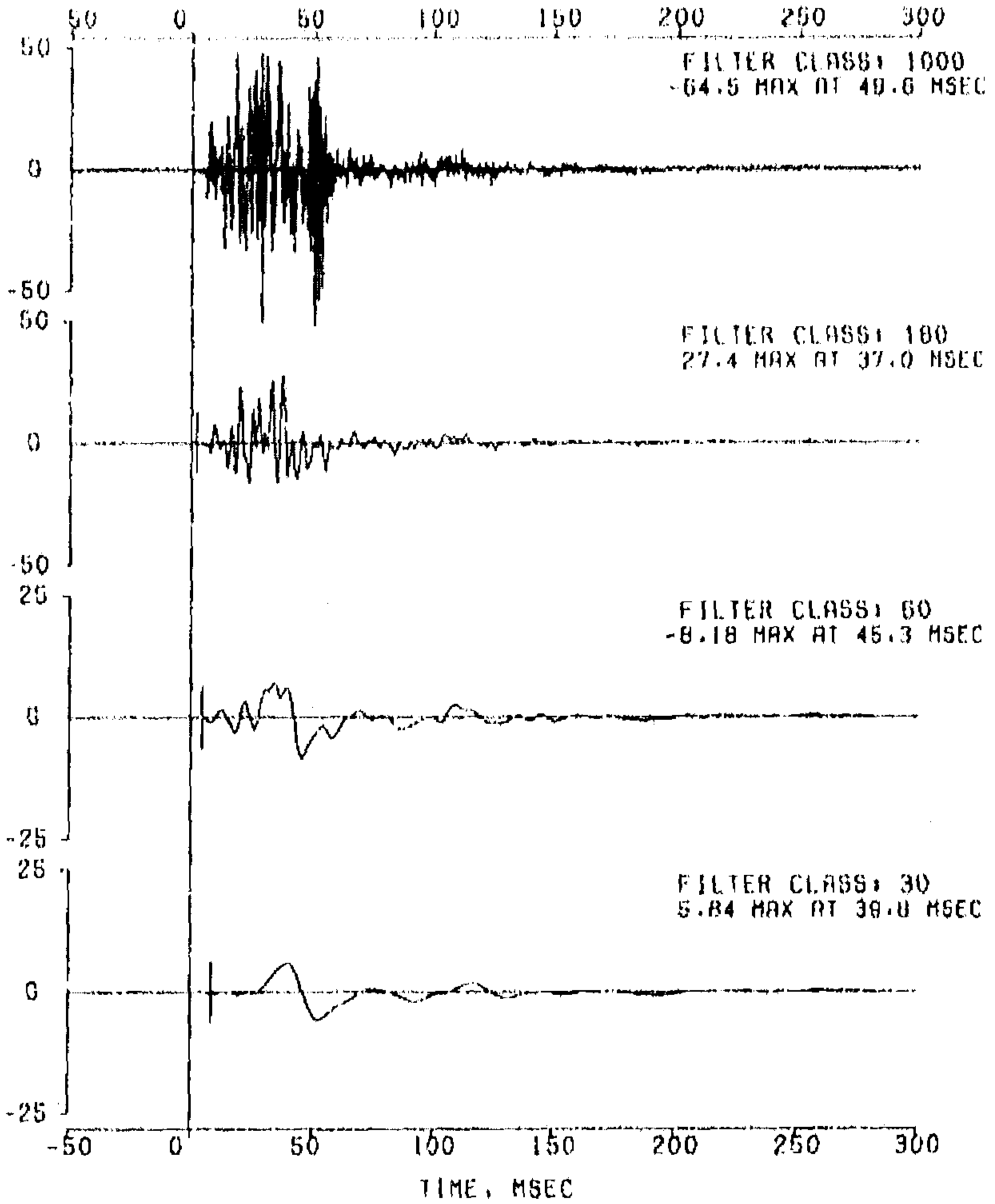
DATA SET 08/27/99BN
 ERRATA 1



COMPUTED MPH
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VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4204N
2002 MY88 301 REAR IMPACT DEVELOPMENT
CHANNEL 054 FUEL TANK RL PASS-THRU J11207
FILTER TYPE: 08005-111 RESPONSE CORRECTION, CLASS 1000 FILTER:16001
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

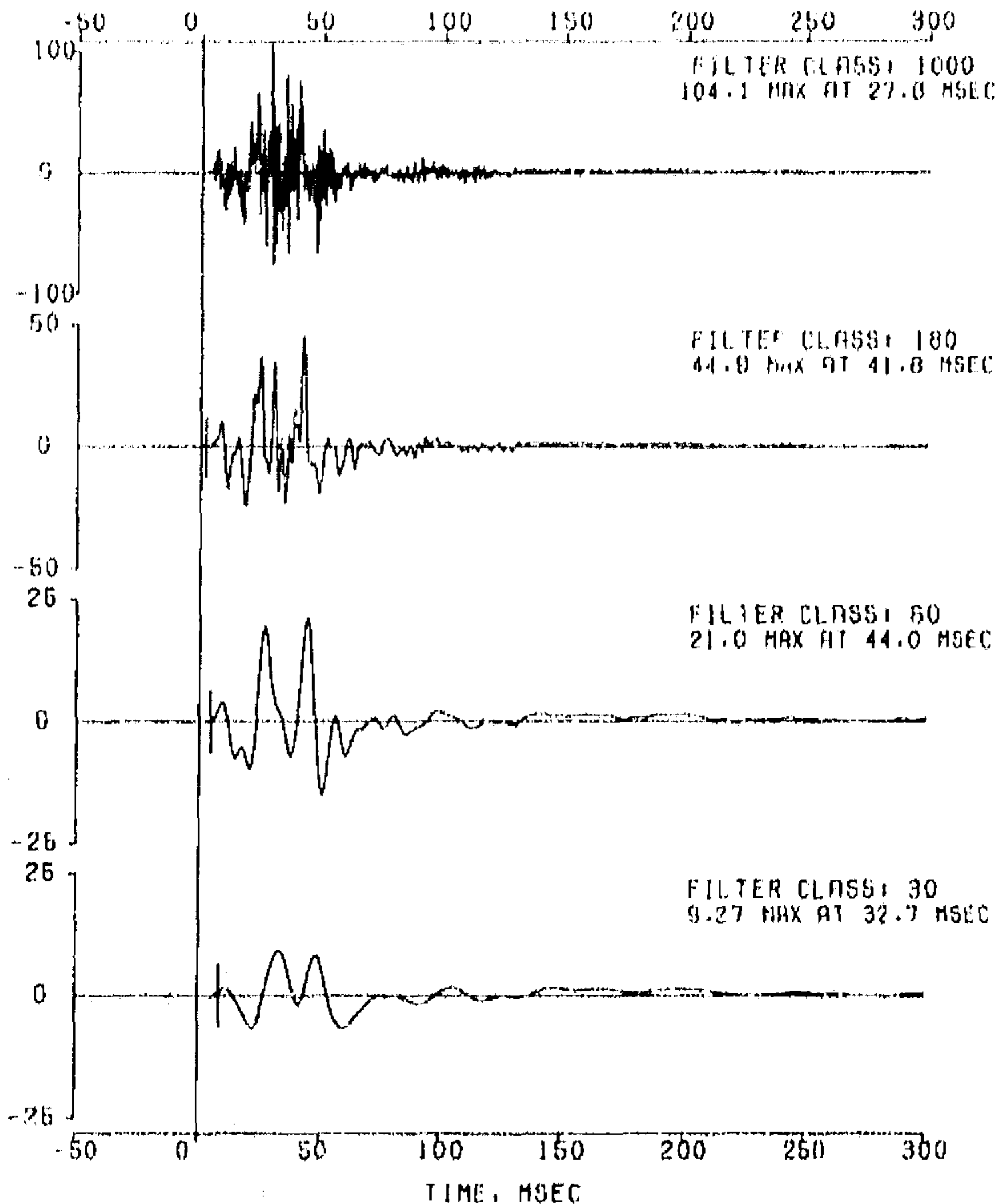
DATA SET 08/27/99BN
ERRATA 1



VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
2002 HYGS 301 REAR IMPACT DEVELOPMENT
CHANNEL 055 FUEL TANK RL PASS-THRUZ (MILLO)
FILTER TYPE: 00DAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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DATA SET 08/27/99BN
ERRATA 1



VC07745 30 MPH REAR MOVING BARRIER, KJY-74, ITEM KJ4204R

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CHANNEL 050 LT RAIL FT XHDR

X 019082

FILTER TYPE: 00043-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)

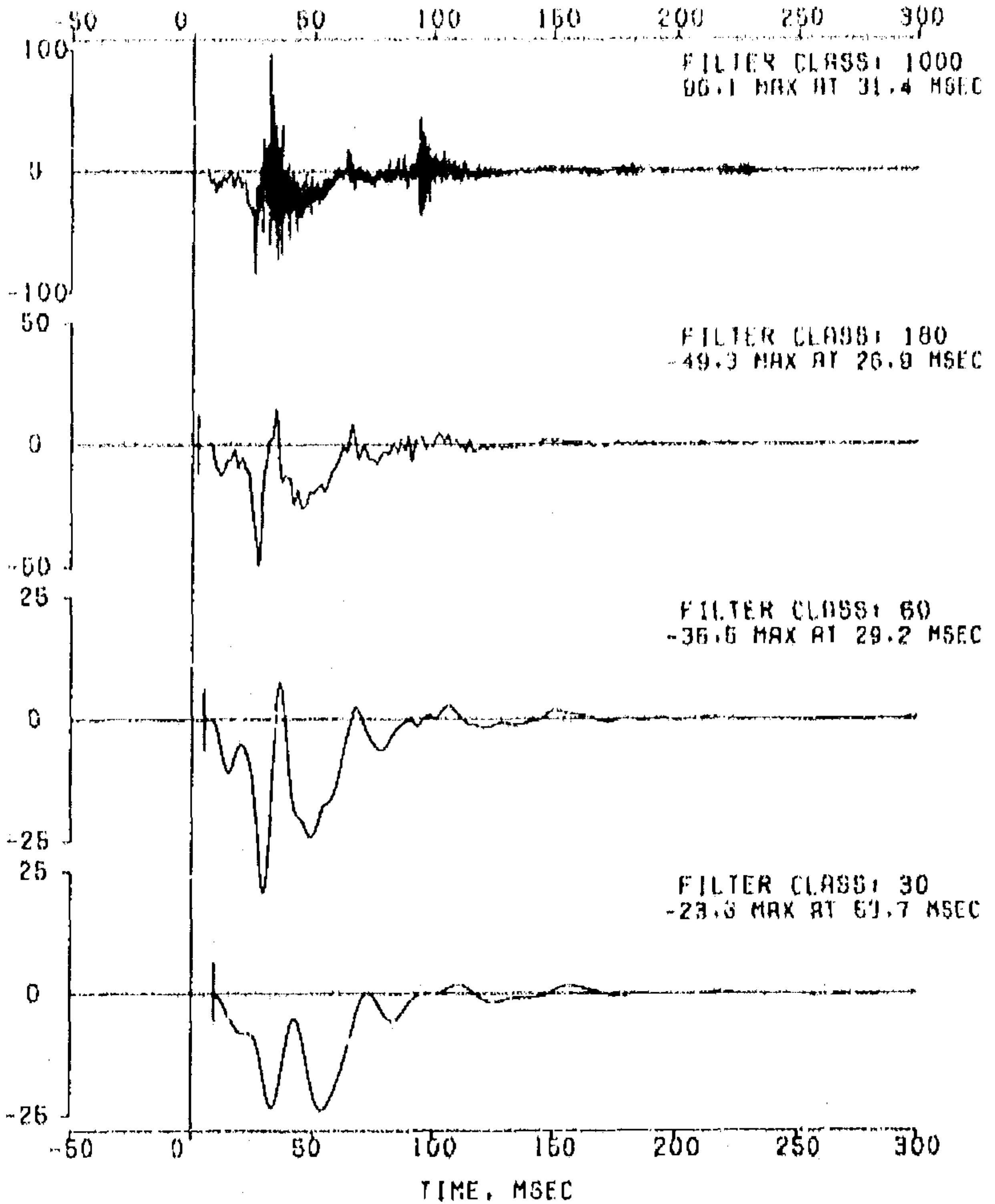
IMPACT ANALYSIS DEPT. 5320

DATA SET 00/27/090N

NOV 27, 1999

ERRATA

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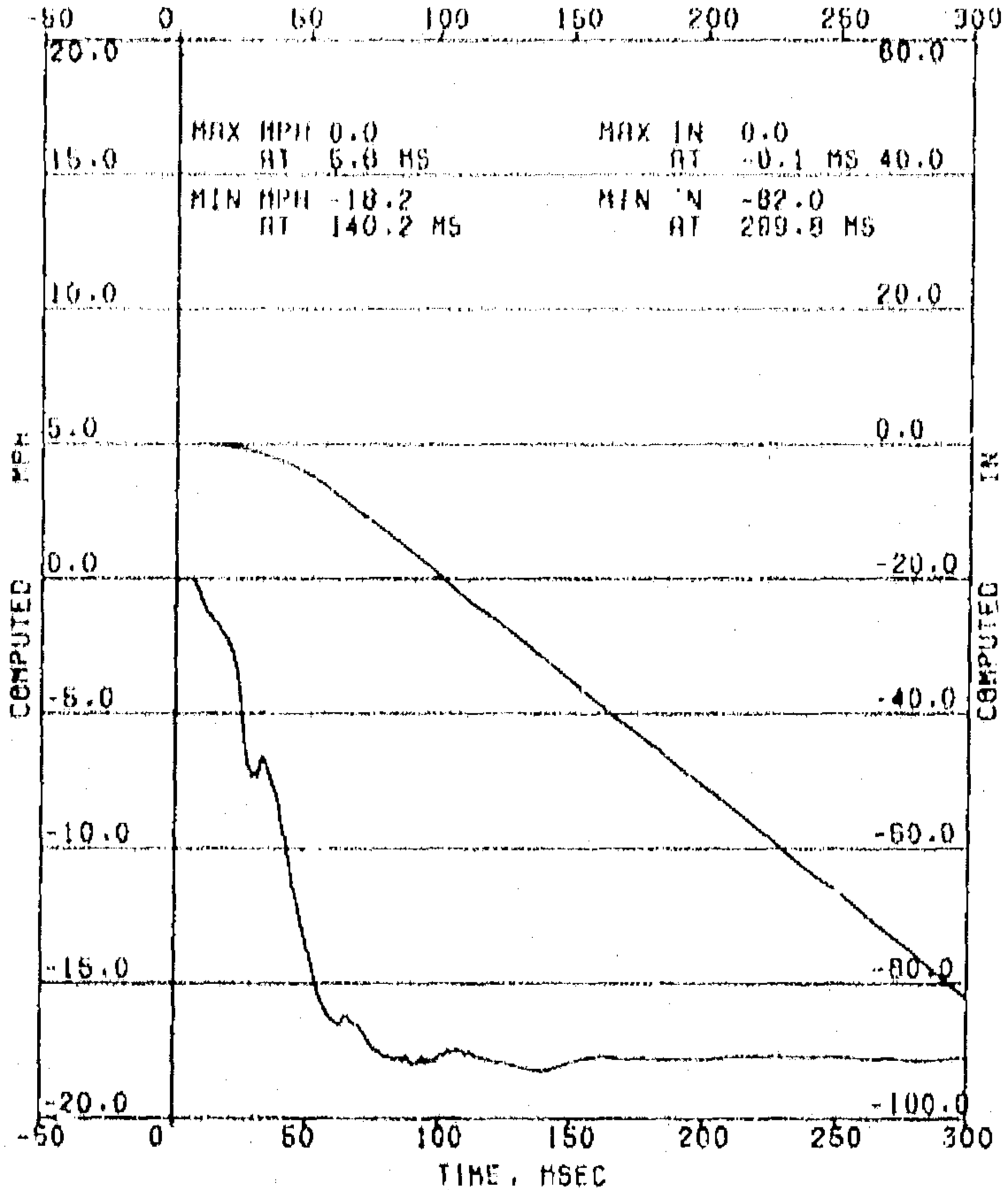


X J190B2

FILTER TYPE: 0008-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1660)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

DATA SET 08/27/99BN
ERRATA 1

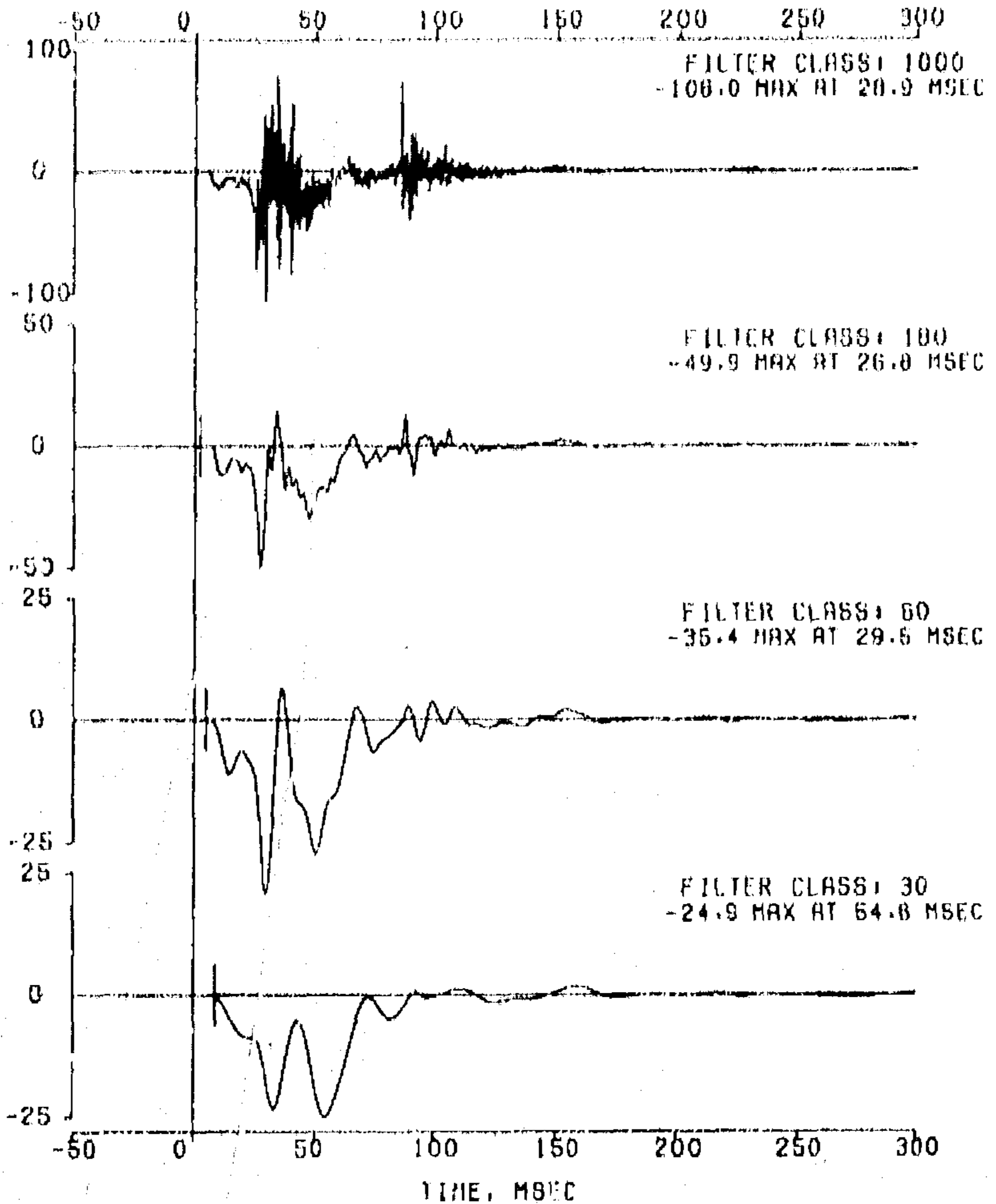


COMPUTED MPH
COMPUTED IN

VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4284R
2002 MYGB 301 REAR IMPACT DEVELOPMENT
CHANNEL 057 RT RAIL FF AMR X J27506
FILTER TYPE: 0808-111 RESPONSE CORRECTION, CLASS 1000 FILTER(16601
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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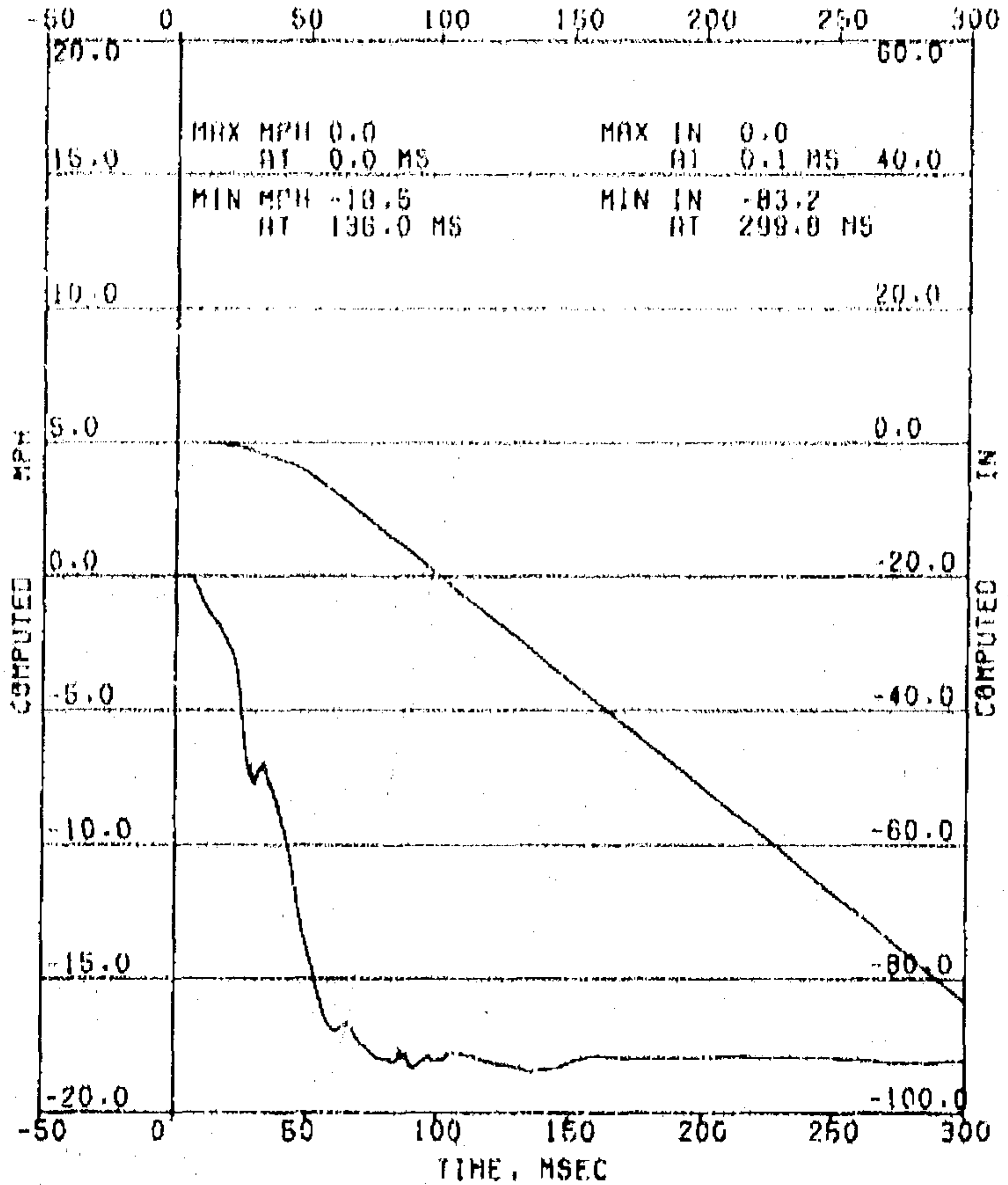
DATA SET 08/27/99BN
ERRATA 1



FILTER TYPE: 080A6-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1660)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

DATA SET 08/27/99AN
ERRATA 1

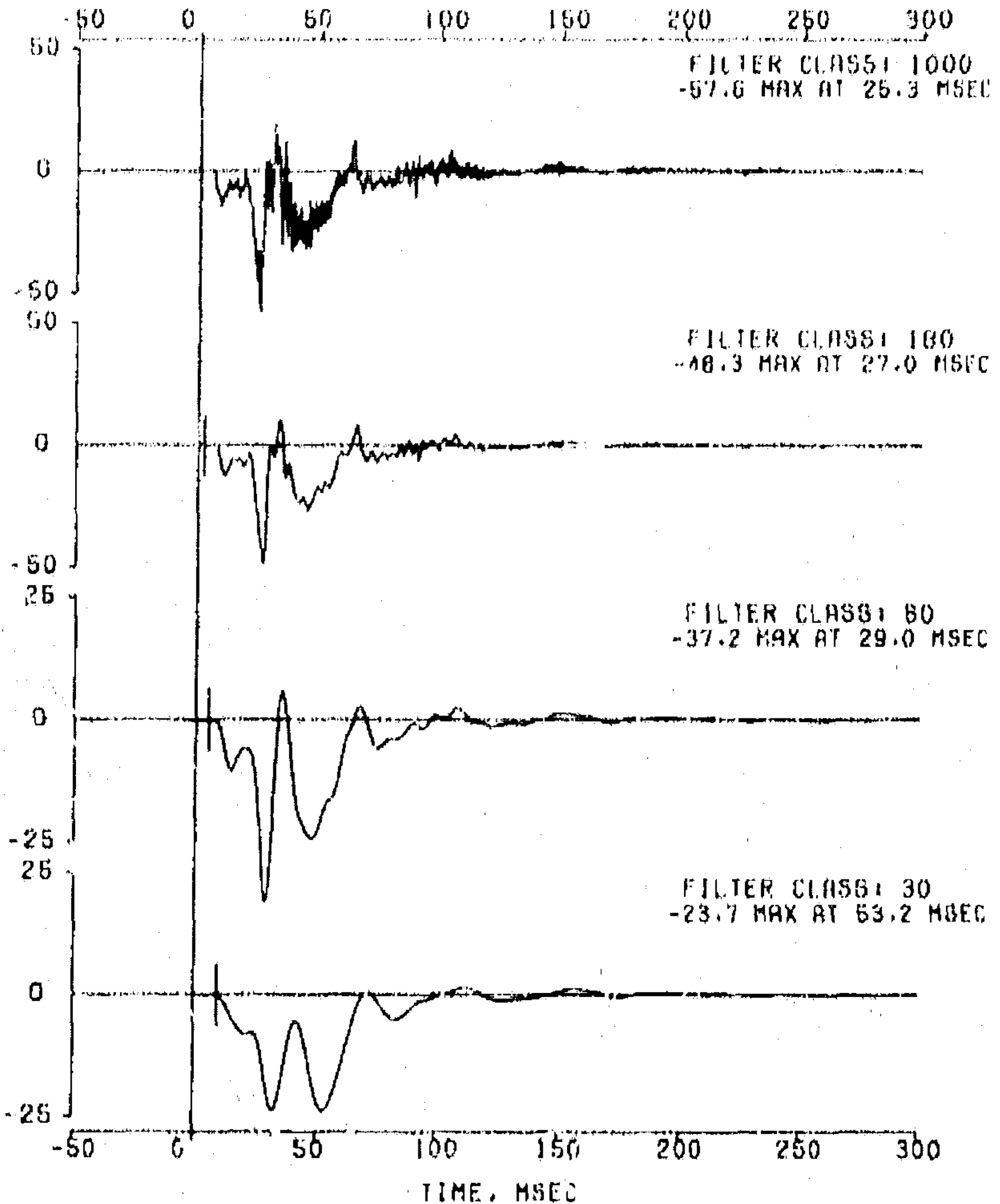


COMPUTED MPH
COMPUTED IN

VC07748 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4284R
2002 HYBR 301 REAR IMPACT DEVELOPMENT
CHANNEL 205 17 FT BILL FWD BY XBRX P11996
FILTER TYPE: 0808-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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DATA SET 08/27/99B0
ERRATA 1



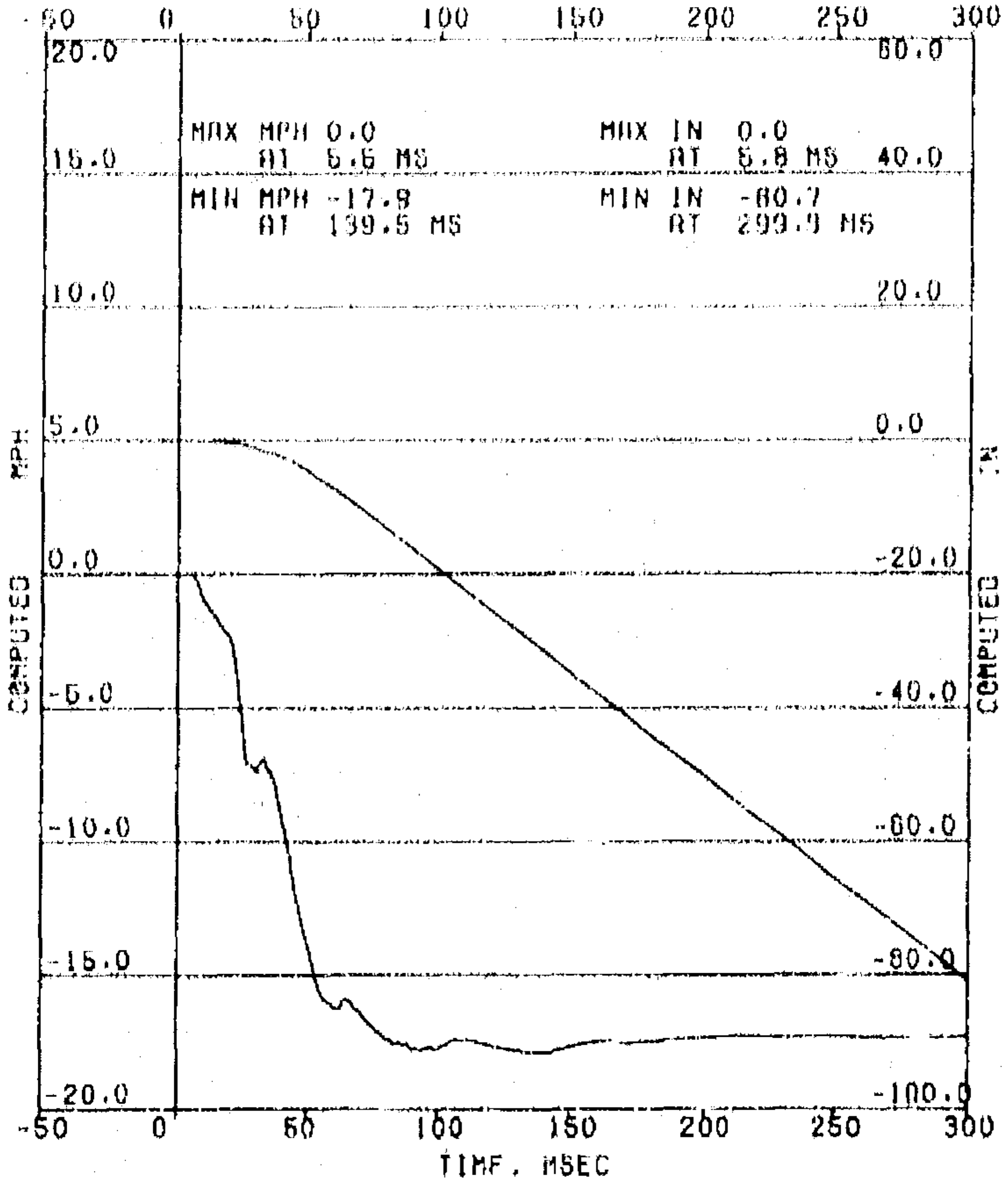
VC07748 30 MPH REAR MOVING BARRIER. KJI-74. ITEM KJ4264R
 2002 HYBR 301 REAR IMPACT DEVELOPMENT
 CHANNEL 066 LT FT SILL FWD ST XBRX P11996

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FILTER TYPE: QBDAS-III RESPONSE CORRECTION. CLASS 1000 FILTER(1650)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 08/27/9908
 ERRATA 1



COMPUTED MPH
 COMPUTED IN

VC07740 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4204R

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CHANNEL 006 LT FT BILL FWD ST XMBRY PL1883

FILTER TYPE: 0000 -111 RESPONSE CORRECTION, CLASS 1000 FILTER(1660)

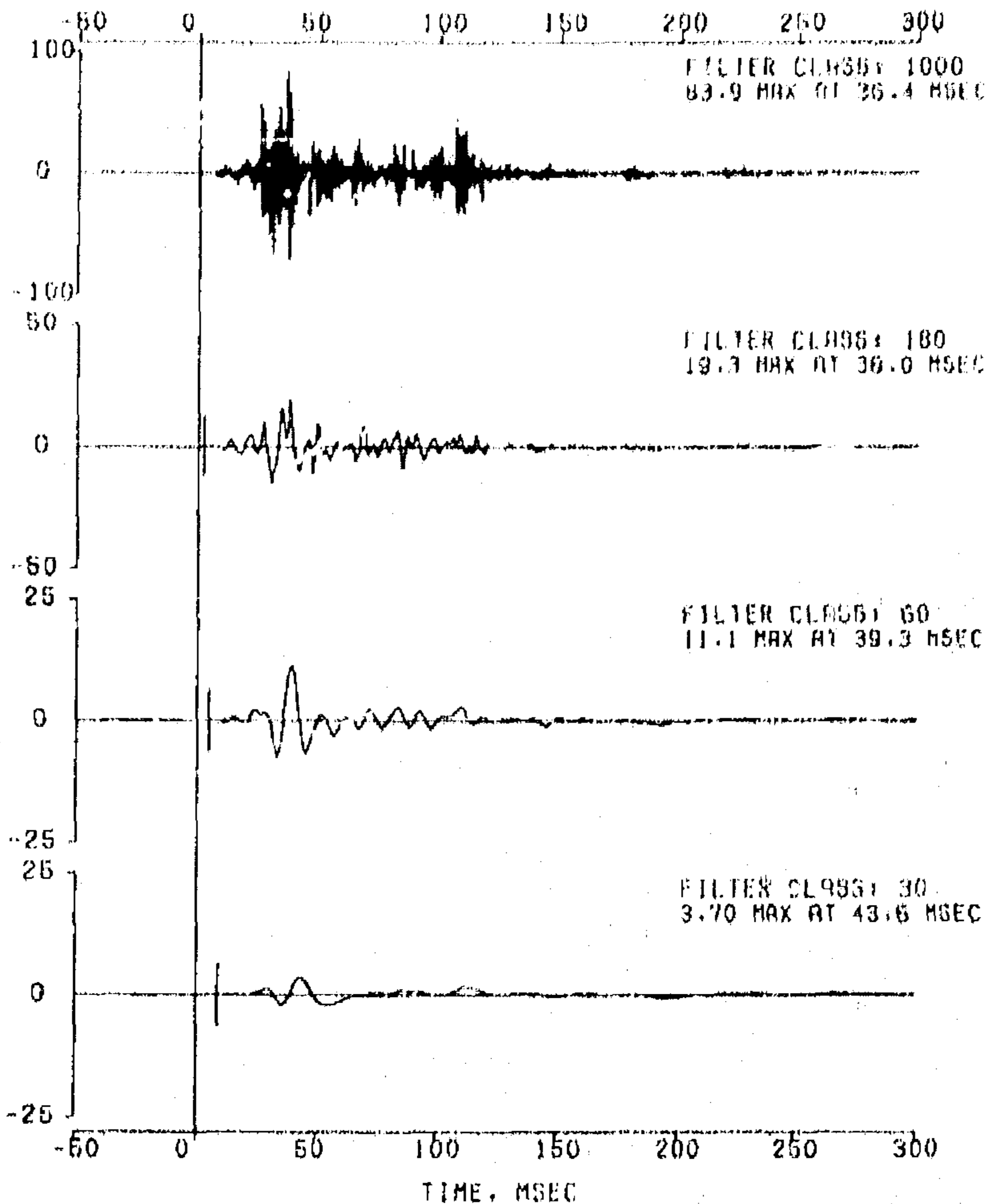
IMPACT ANALYSIS DEPT. 5320

DATA SET 08/27/9906

AUG 27, 1999

ERRATA

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VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R

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CHANNEL 067 RT FT SILL FWD ST XBRX P11984

FILTER TYPE: 06095-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)

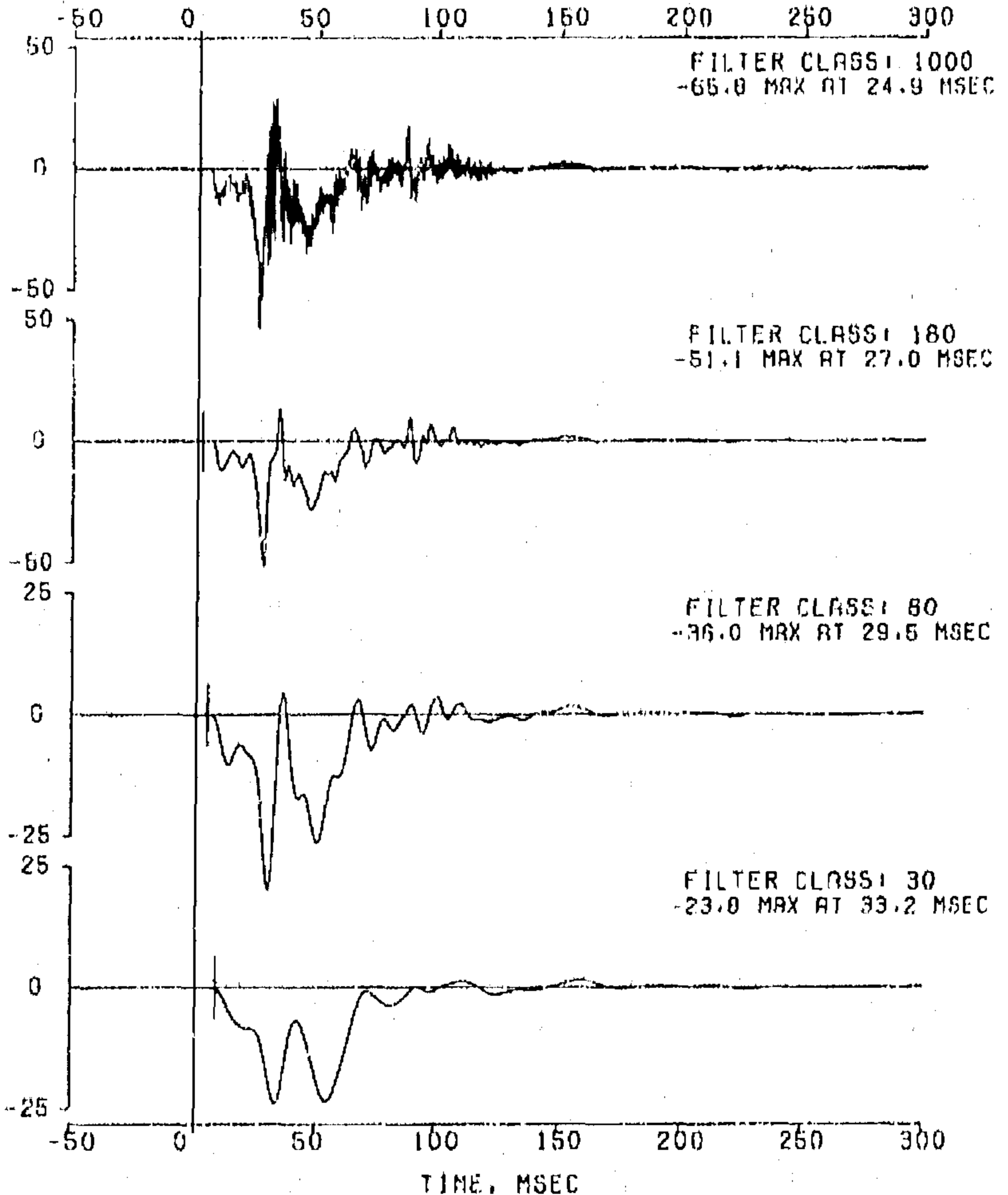
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DATA SET 00/27/9800

AUG 17, 1999

ERRATA

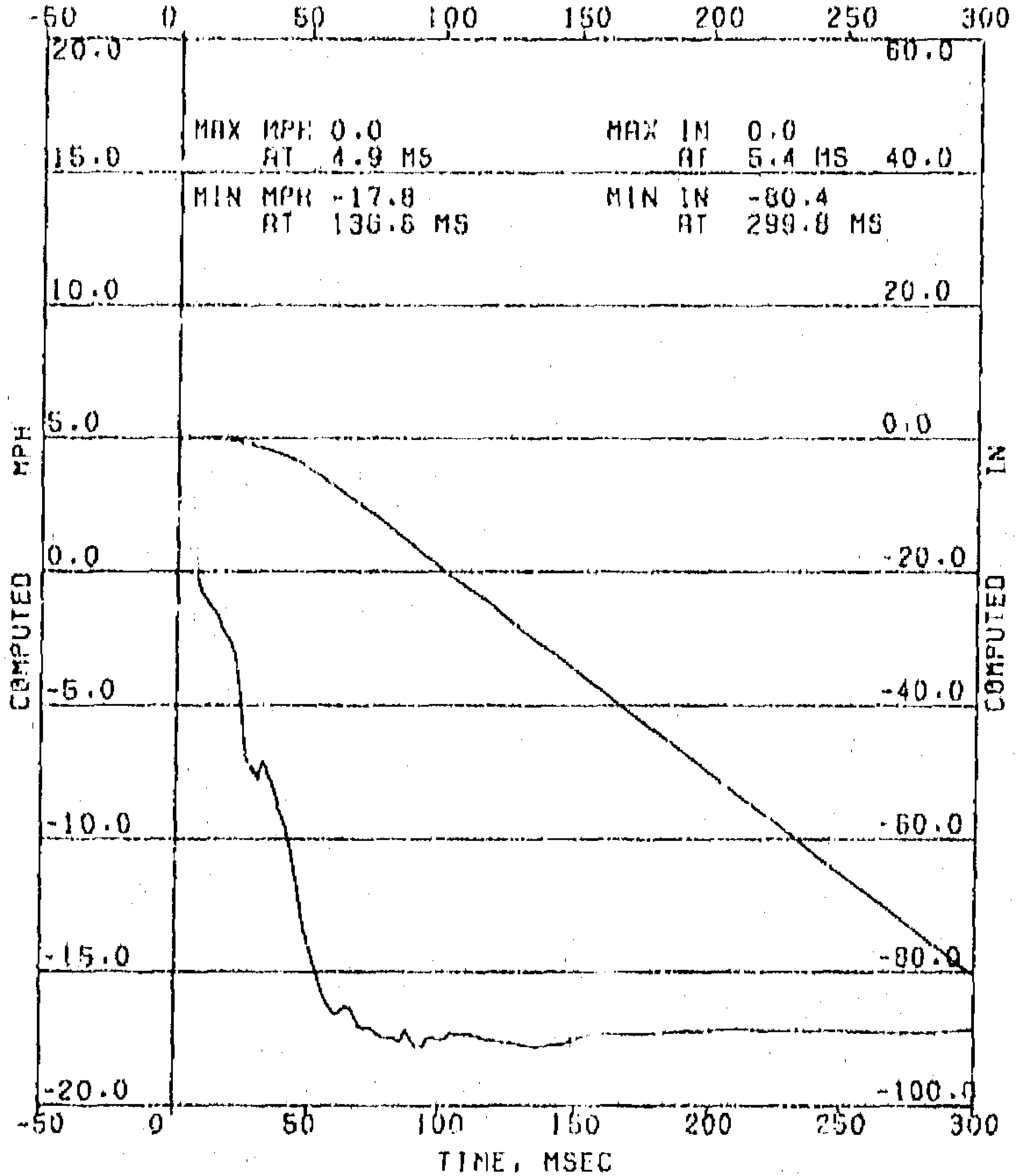
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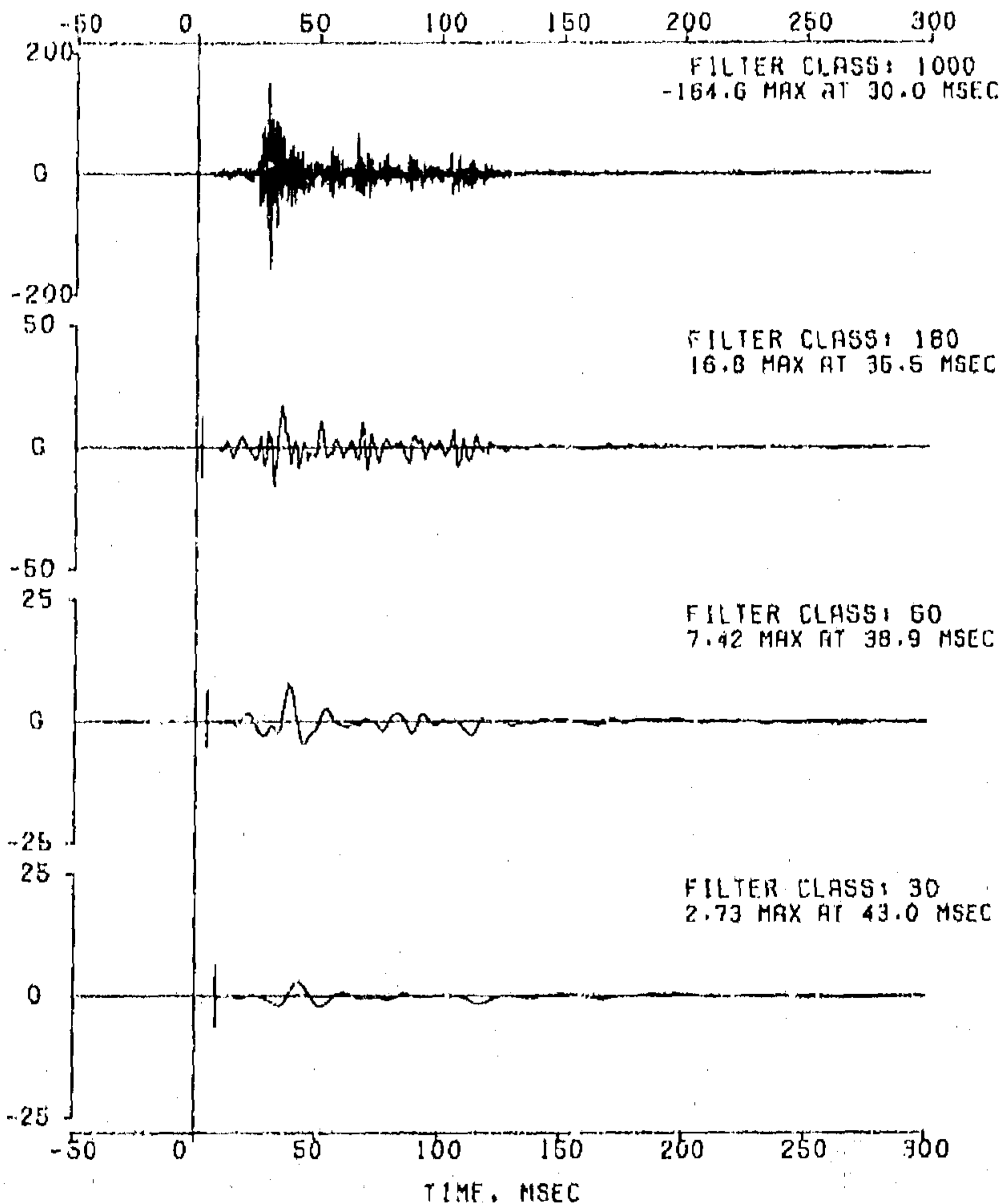
FILTER TYPE: 00095-111 RESPONSE CORRECTION, CLASS 1500 FILTER(1650)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

DATA SET 08/27/9900
ERRATA 1



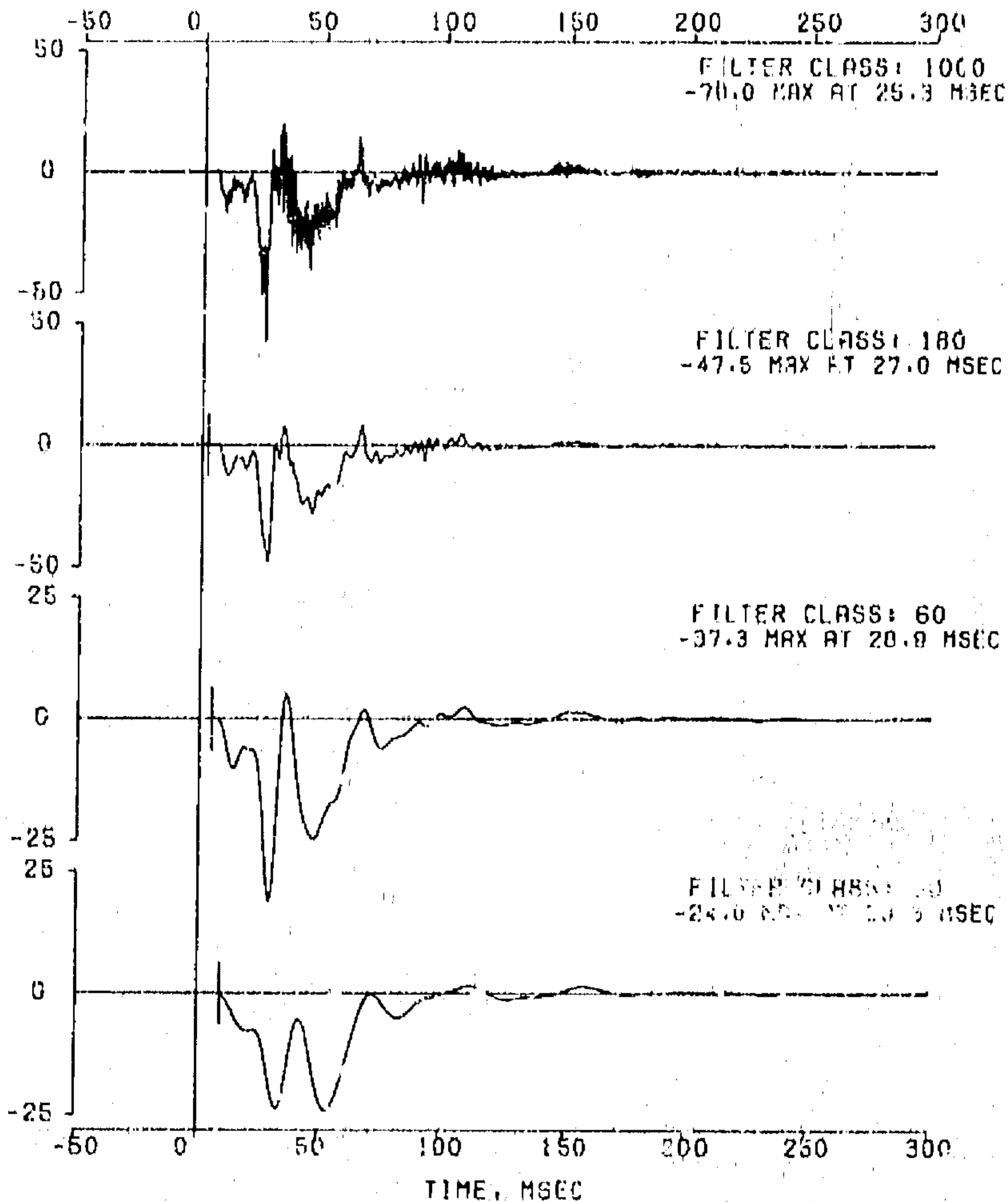
COMPUTED MPH
COMPUTED IN



VC07748 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
2002 HY88 301 REAR IMPACT DEVELOPMENT
CHANNEL 009 LT RR SILL FWD ST XMORX B14667
FILTER TYPE: OBDAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1660)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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DATA SET 08/27/9900
ERRATA 1



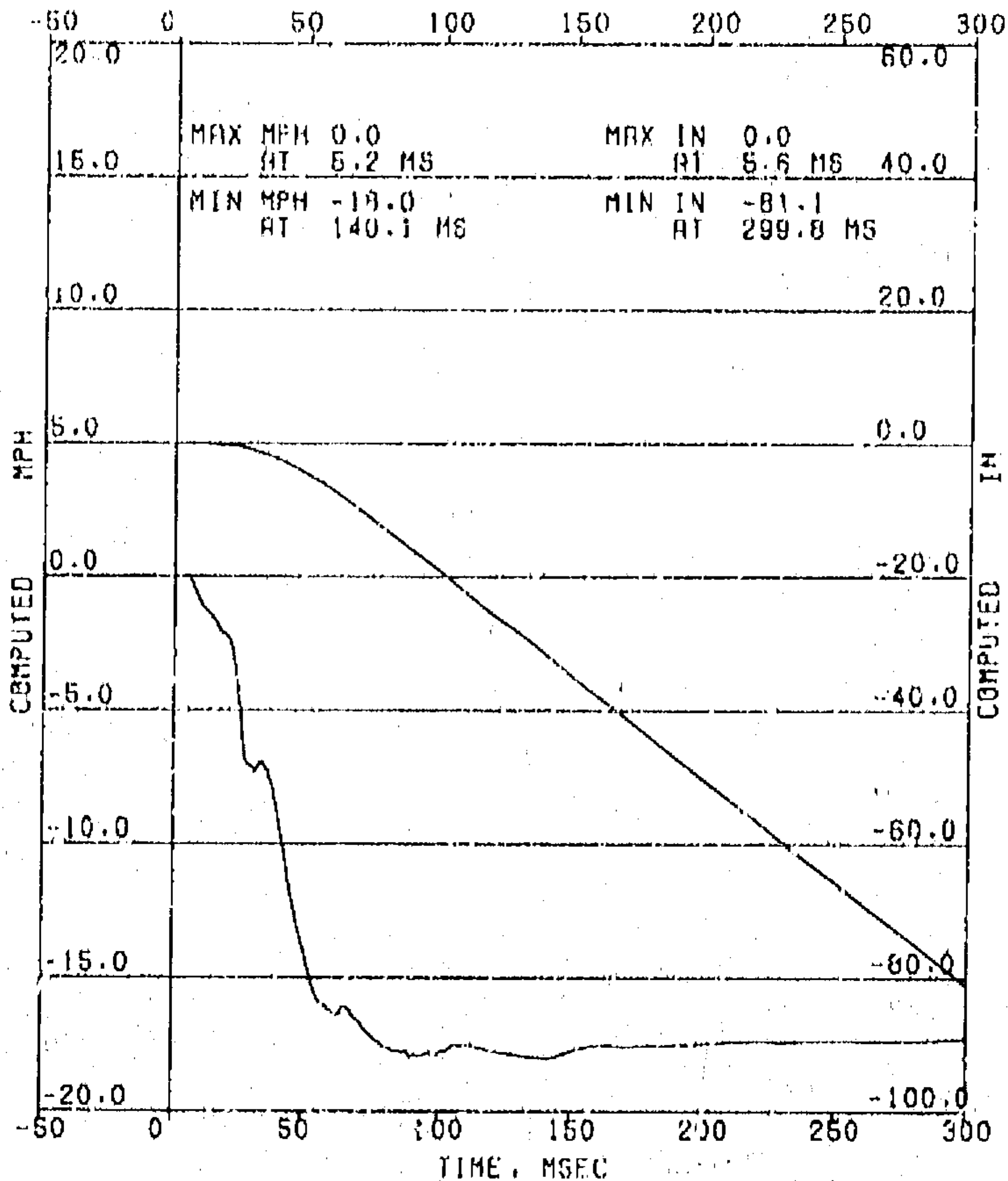
VCD7746 30 MPH REAR MOVING BARRIER, KJ1-74, ITEM KJ4284R
 2002 HYUNDAI SONATA REAR IMPACT DEVELOPMENT
 CHANNEL 069 LT RR SILL FWD ST XMBRX B14667

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FILTER TYPE: 88000-III RESPONSE CORRECTION, CLASS 1000 FILTER(1560)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1993

DATA SET 08/27/9980
 ERRATA 1

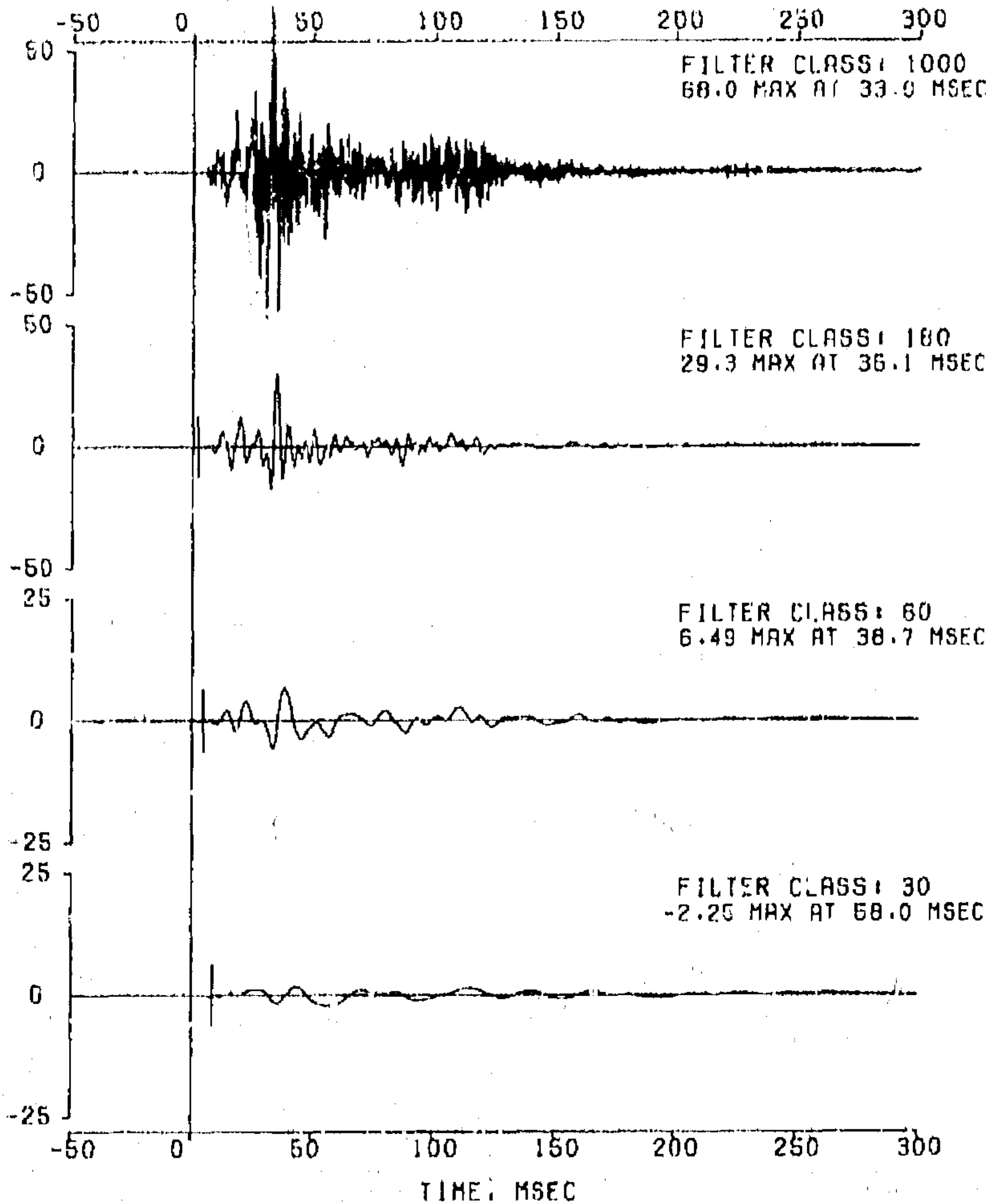


COMPUTED MPH
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VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4204R
2002 MY66 301 REAR IMPACT DEVELOPMENT
CHANNEL 070 LT RR SILL FWD ST XMBRY A15016
FILTER TYPE: 080AS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
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DATA SET 08/27/99B0
ERRATA 1



YC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R

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CHANNEL 071 RT RR SILL FWD ST XMRX P11063

FILTER TYPE: OBDHO-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)

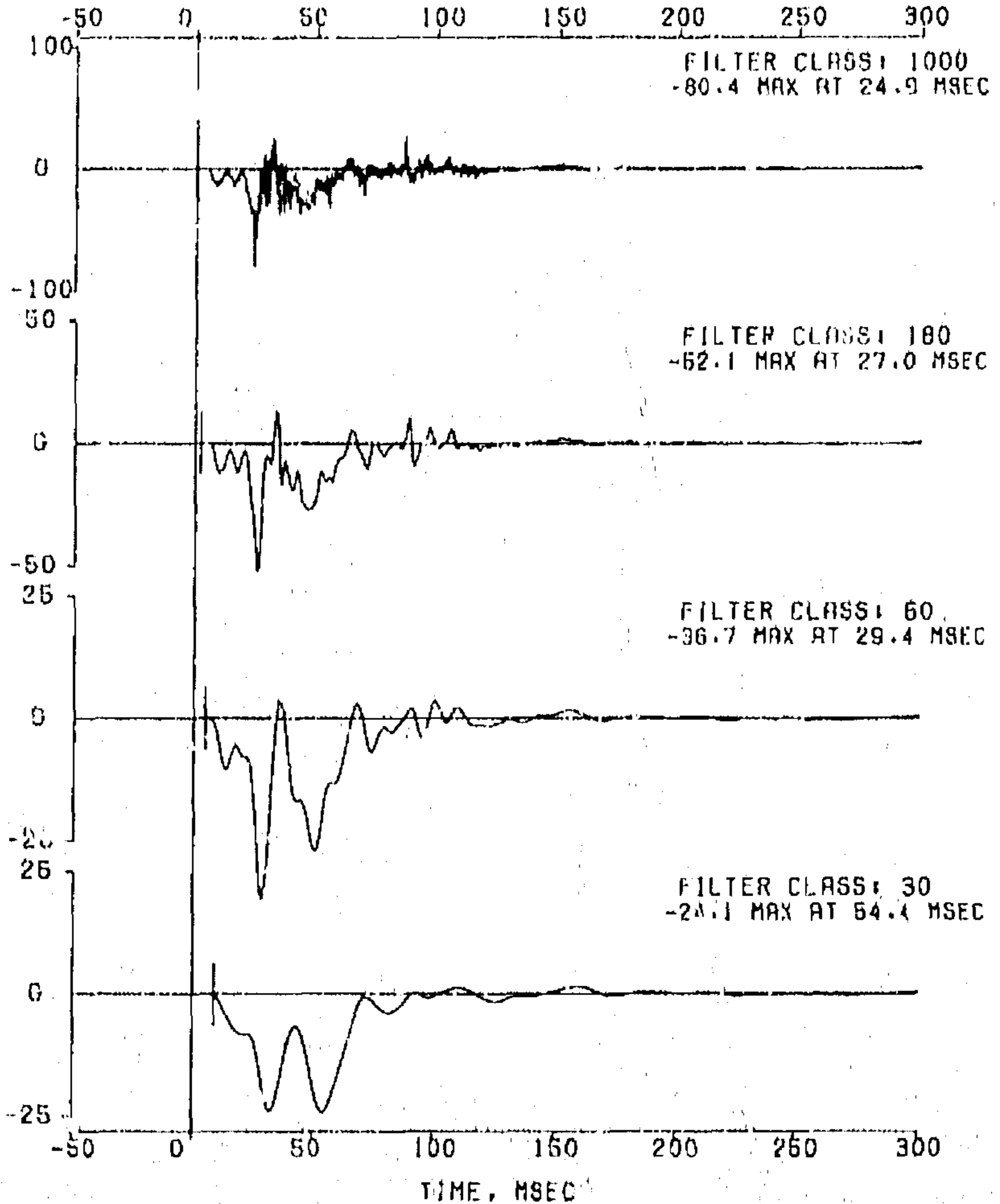
IMPACT ANALYSIS DEPT. 5320

DATA SET 08/27/9980

AUG 27, 1999

ERRATA

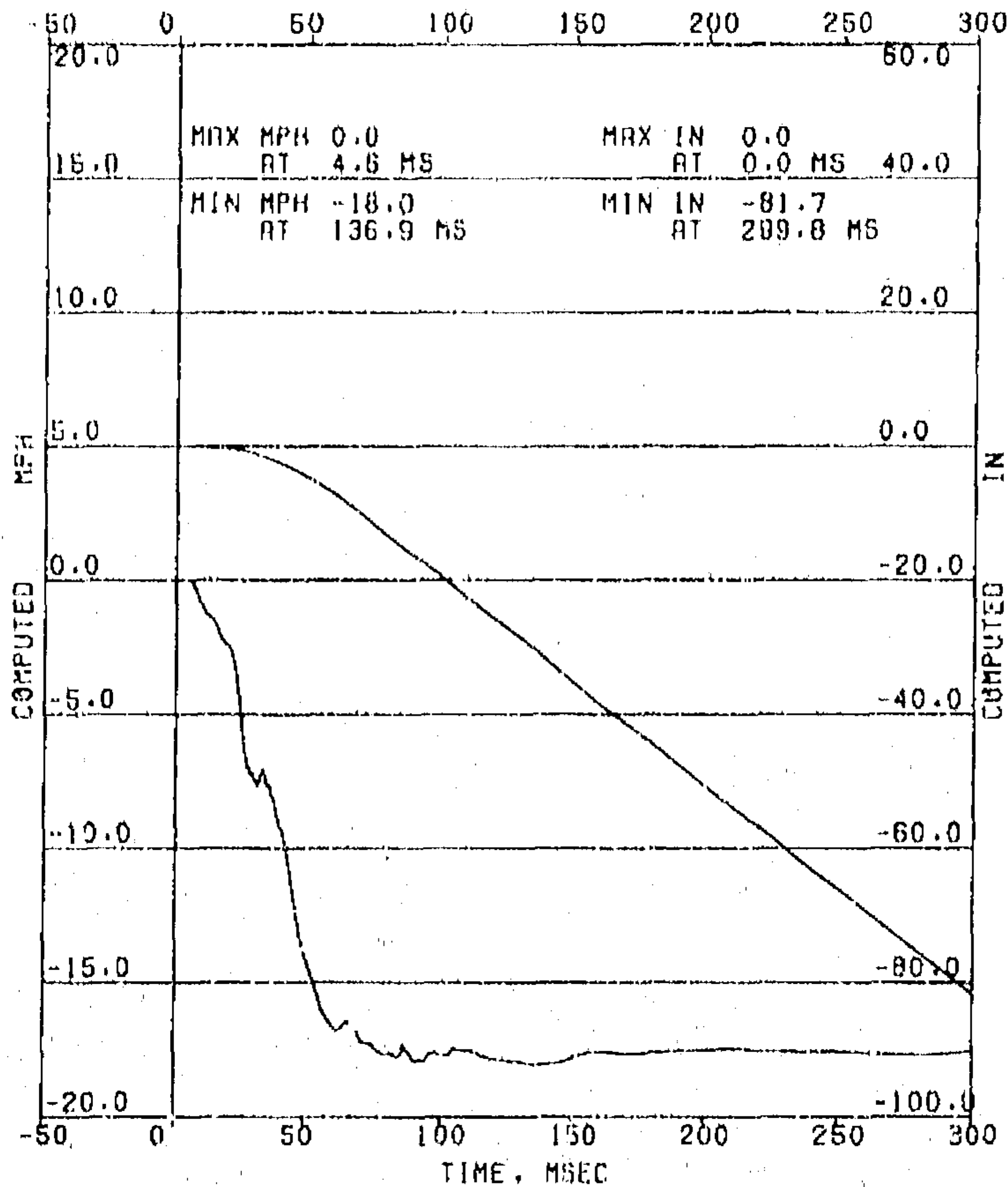
1



FILTER TYPE: 00088-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1600)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 08/27/99B0
 ERRATA 1



COMPUTED MPH
 COMPUTED IN

VC07746 30 MPH REAR MOVING BARRIER. KJT-74. ITEM K14264R

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2002 HYSS 301 REAR IMPACT DEVELOPMENT

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CHANNEL 072 RT RR SIL. FWD ST XDRY P11062

FILTER TYPE: 080AS-111 RESPONSE CORRECTION. CLASS 1000 FILTER(1660)

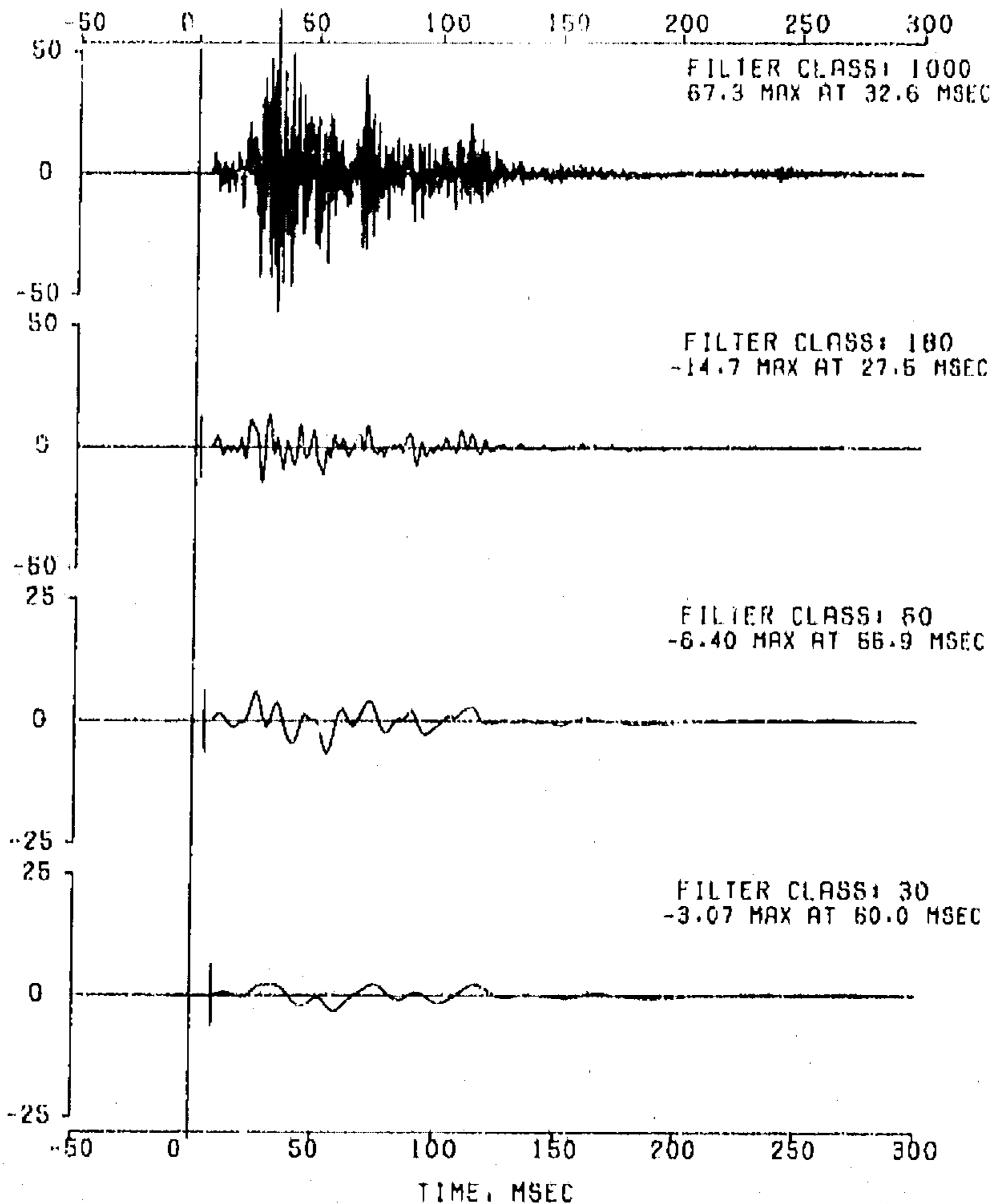
IMPACT ANALYSIS DEPT. 5320

DATA SET 08/27/9900

NOV 27, 1999

ERRATA

1



VC07746 30 MPH REAR MOVING BARRIER, RPT-74, ITEM KJ4254R

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CHANNEL 073 CTR TUNL AT CL X APIK3

FILTER TYPE: 08043-111 RESPONSE CORRECTION. CLASS 1000 FILTER(1650)

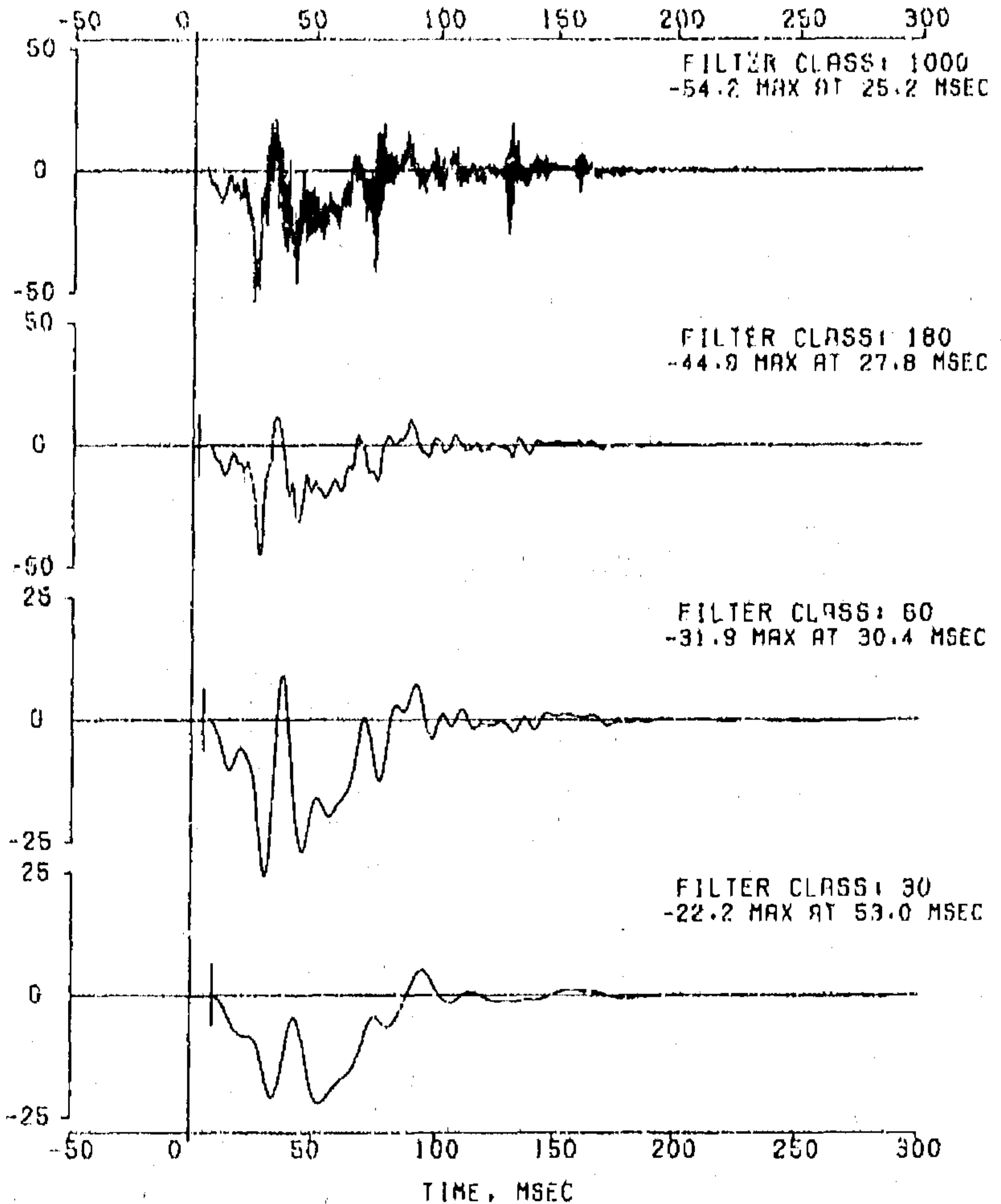
IMPACT ANALYSIS DEPT. 5320

DATA SET 08/27/9900

AUG 27, 1999

ERRATA

1



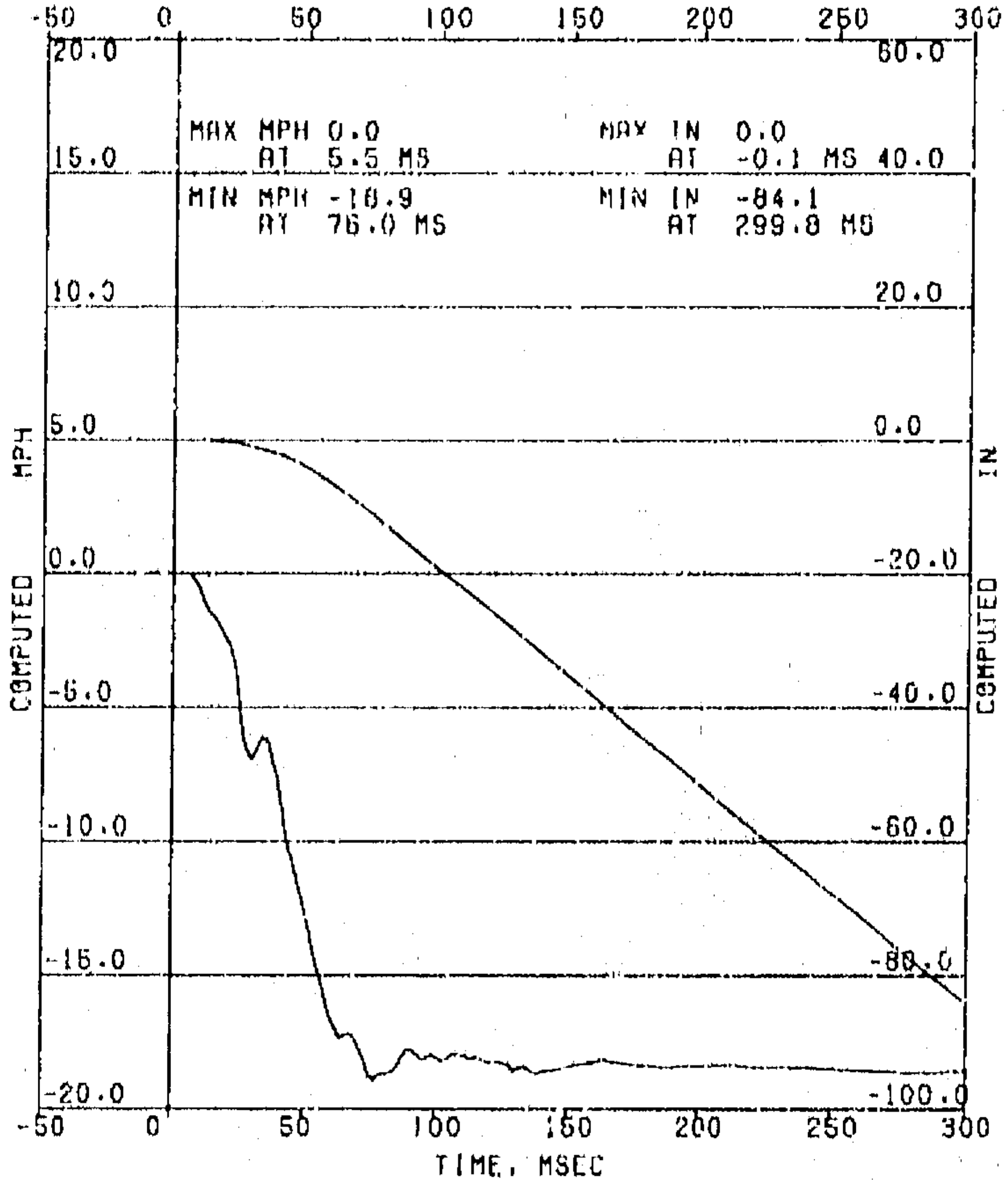
YC07748 30 MPH REAR MOVING BARRIER, KJ1-74, ITEM KJ4264R
 2002 MY88 301 REAR IMPACT DEVELOPMENT
 CHANNEL 073 CTR TUNL AT CI X APIH3

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FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

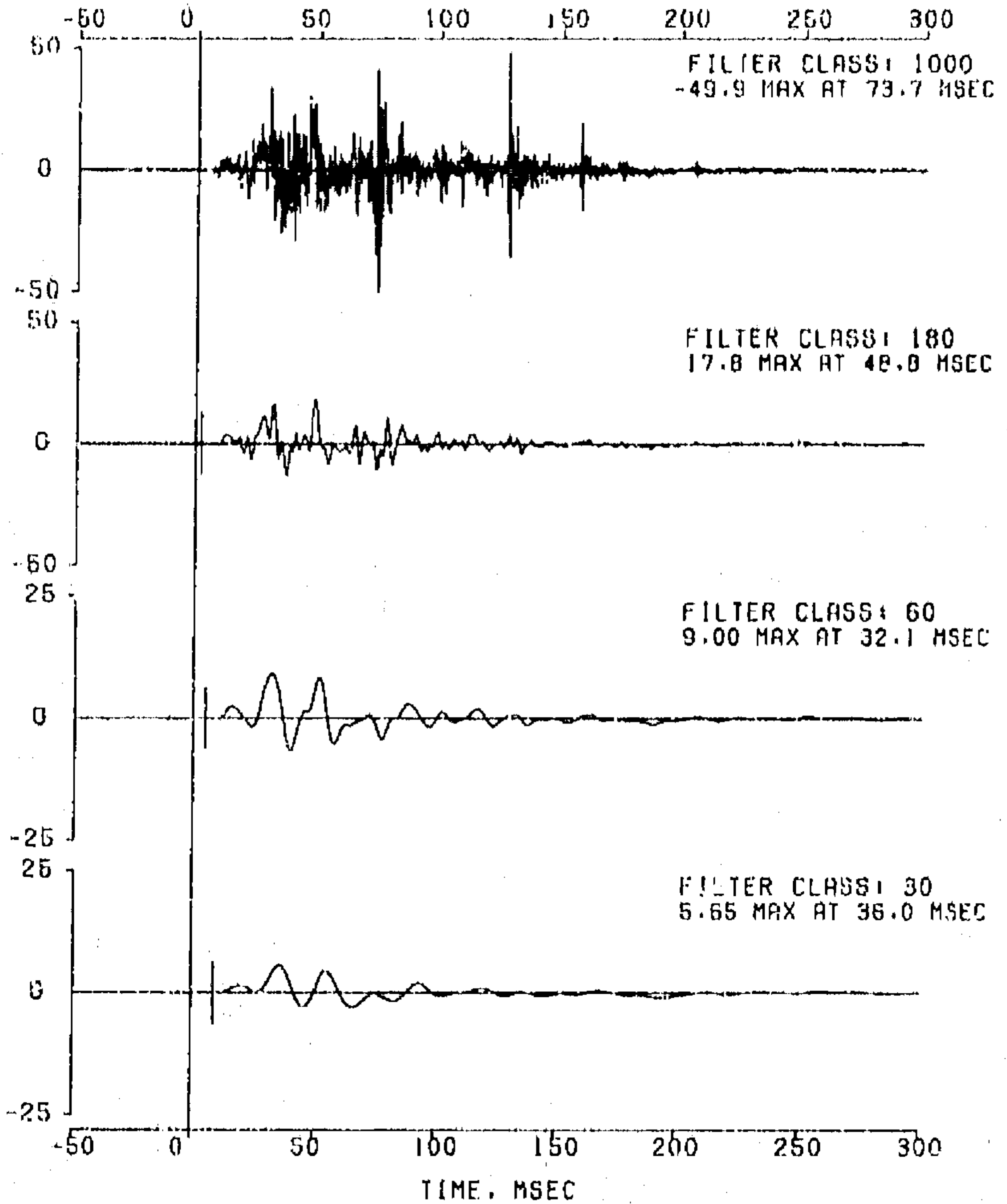
DATA SET 08/27/9980
 ERRATA 1



COMPUTED MPH
 COMPUTED IN

VC07748 30 MPH REAR MOVING BARRIER, KJ7-74, ITEM KJ4264R
2002 MV88 301 REAR IMPACT DEVELOPMENT
CHANNEL 074 CTR TUNL AT CL Y .26443
FILTER TYPE: 0BDA6-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1660)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

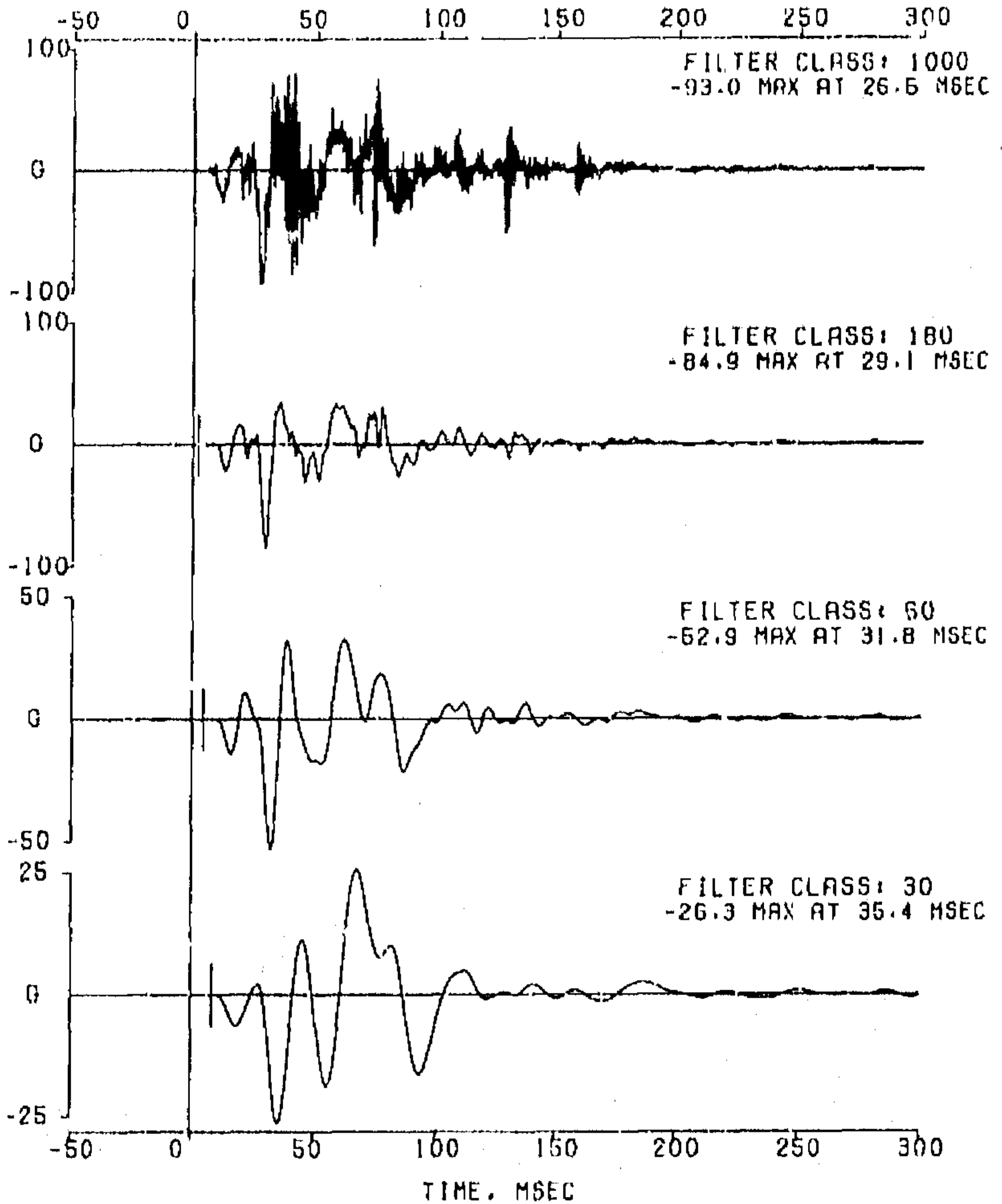
DATA SET 08/27/9980
ERRATA 1



VC07740 30 MPH REAR MOVING BARRIER, KIT-74, ITEM KJ4264R
2002 HYBR 301 REAR IMPACT DEVELOPMENT
CHANNEL 075 CTR TUNL AT CL Z AP2T3
FILTER TYPE: 08DAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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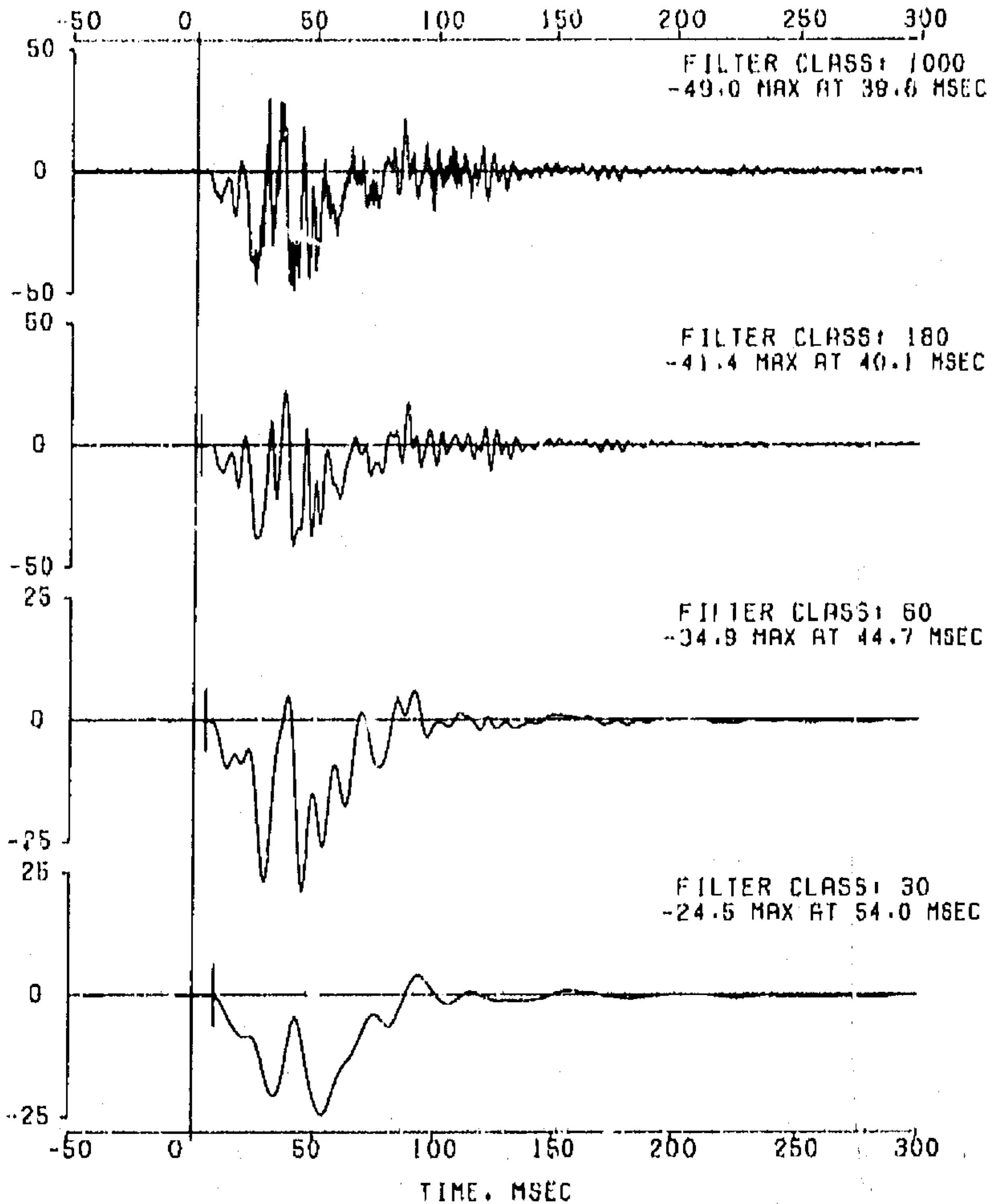
DATA SET 08/27/9900
ERRATA 1



VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
2002 HYUNDAI 301 REAR IMPACT DEVELOPMENT
CHANNEL 076 ORC TOP F1 LT X P12119
FILTER TYPE: OBDHS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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DATA SET 08/27/9900
ERRATA 1



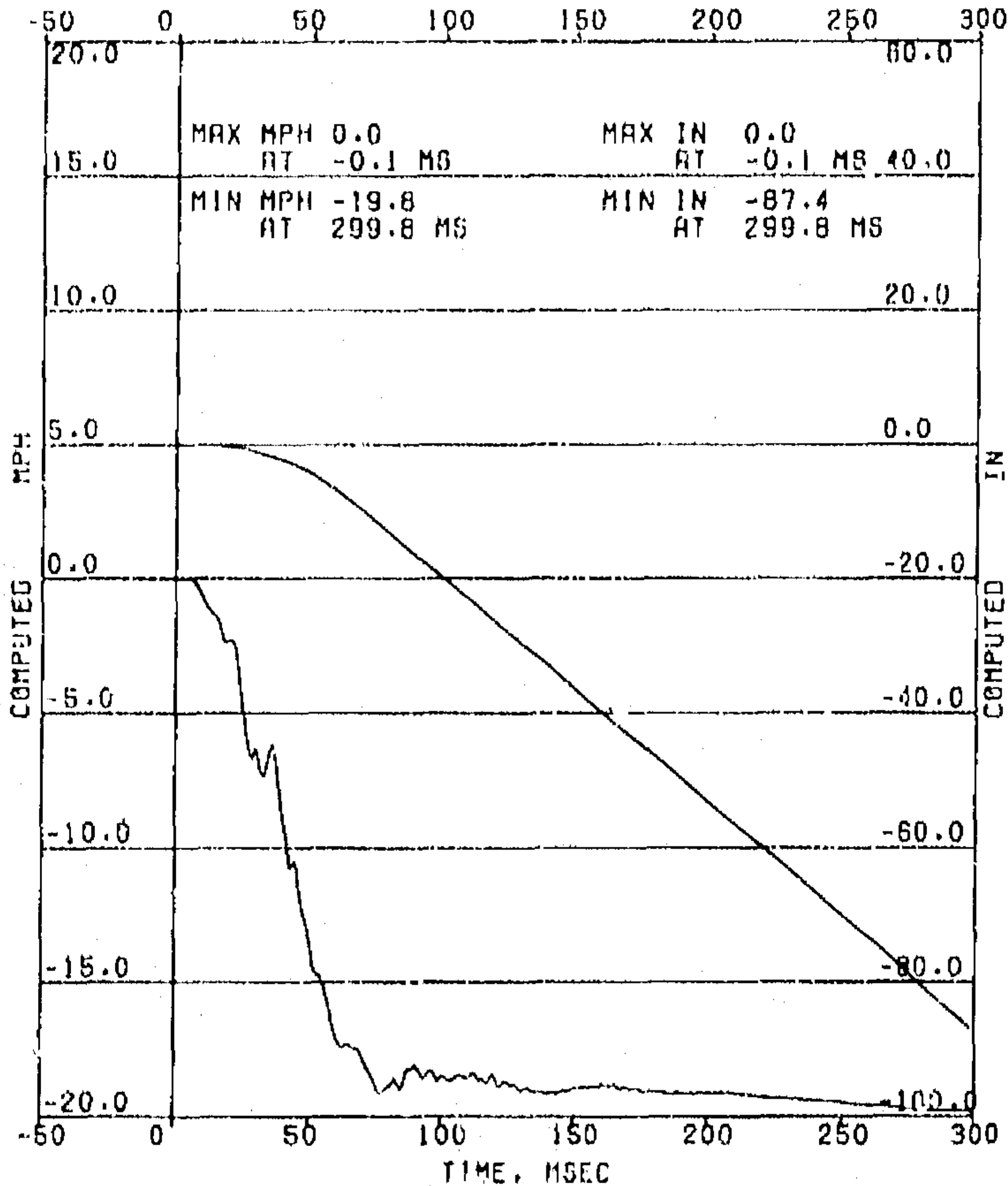
VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
 2002 MY66 301 REAR IMPACT DEVELOPMENT
 CHANNEL 078 ORC TOP FT LT X P12119

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FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 08/27/98B0
 ERRATA 1

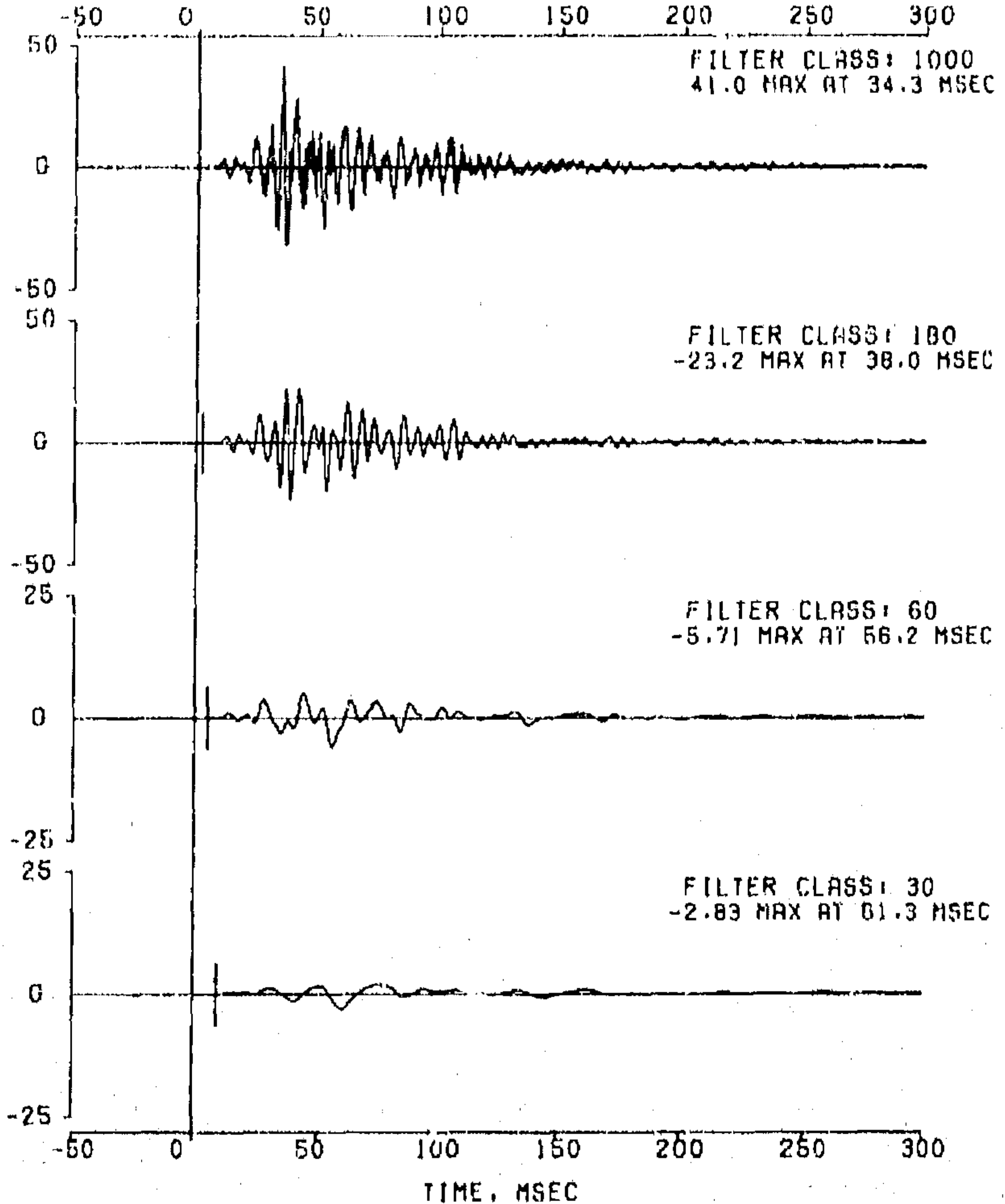


COMPUTED MPH
 COMPUTED IN

VE07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4204R
2002 MY58 301 REAR IMPACT DEVELOPMENT
CHANNEL 077 ORC TOP FT LT Y P12122
FILTER TYPE: 08085-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1050)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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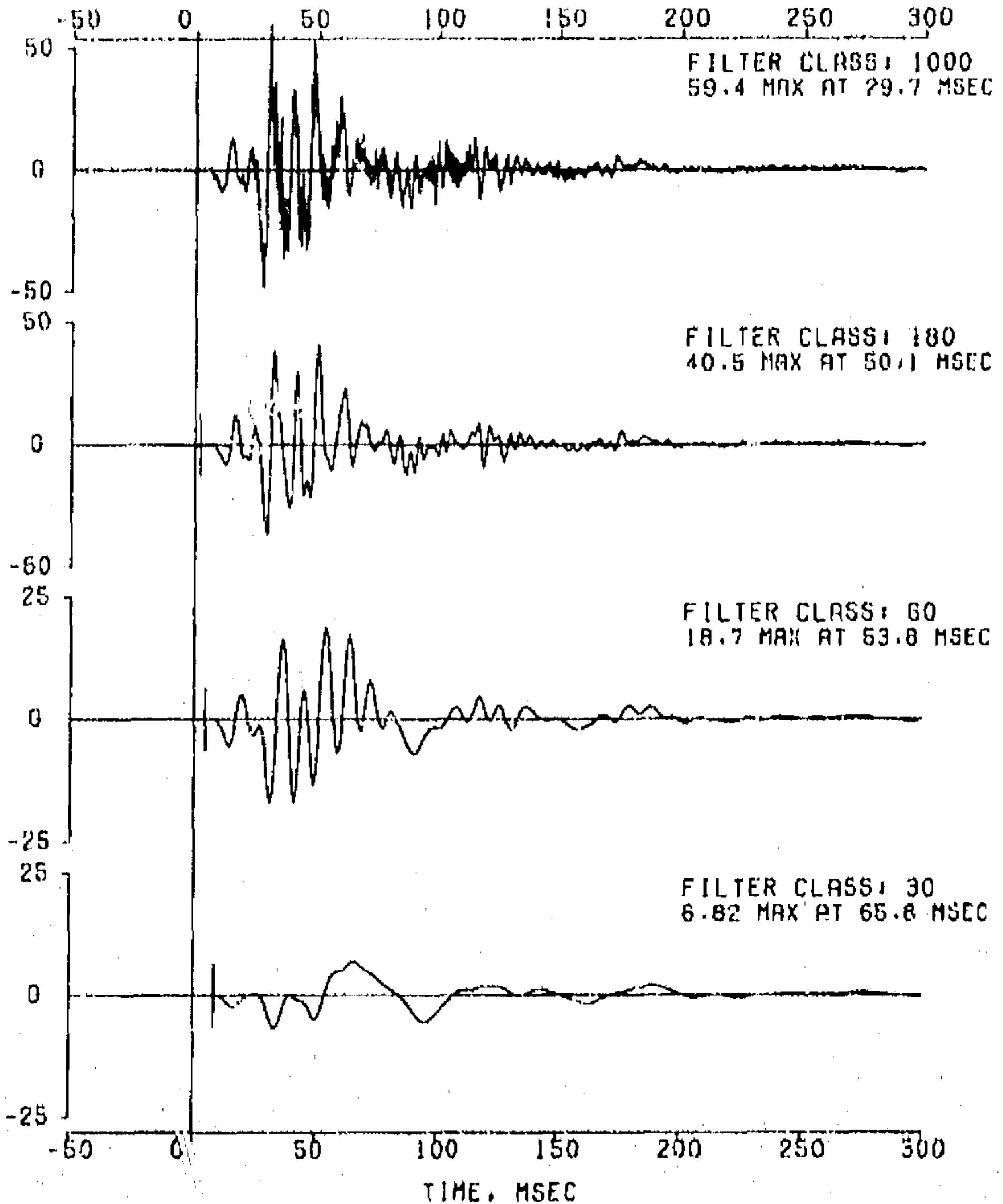
DATA SET 08/27/9900
ERRATA 1



VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITER KJ4264R
2002 MY36 J01 REAR IMPACT DEVELOPMENT
CHANNEL 070 ORC TOP FT LT Z P12121
FILTER TYPE: GBOAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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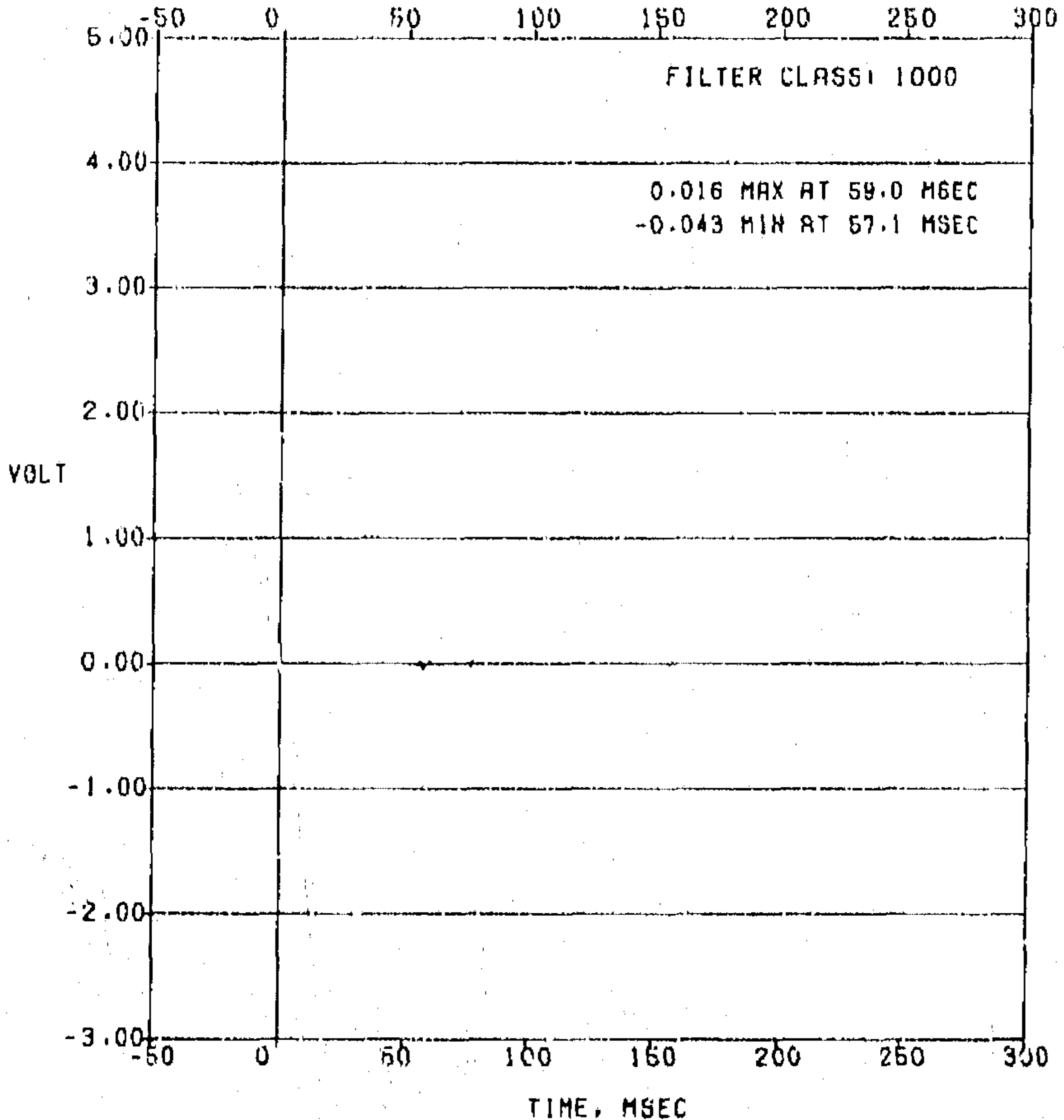
DATA SET 08/27/9900
ERRATA 1



CHANNEL 079 LT SIDE SQUIB

EE

FILTER TYPE: 080A5-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320 DATA SET 08/27/9900
AUG 27, 1999 ERRATA 1

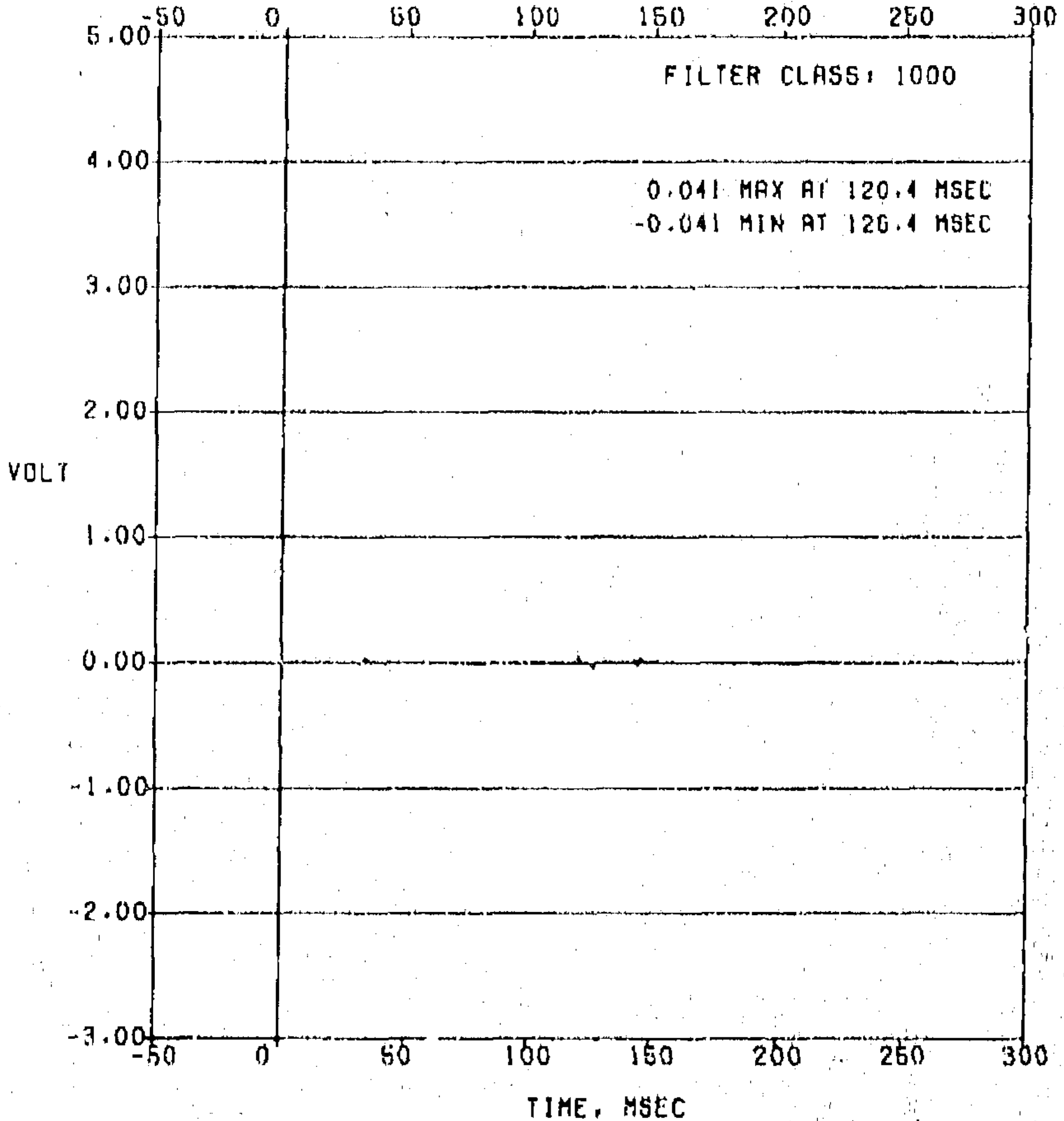


NOTE #####
NO EVENT

CHANNEL 080 RT SIDE SQUID

EE

FILTER TYPE: 080AS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320 DATA SET 08/27/9980
AUG 27, 1999 ERRATA 1

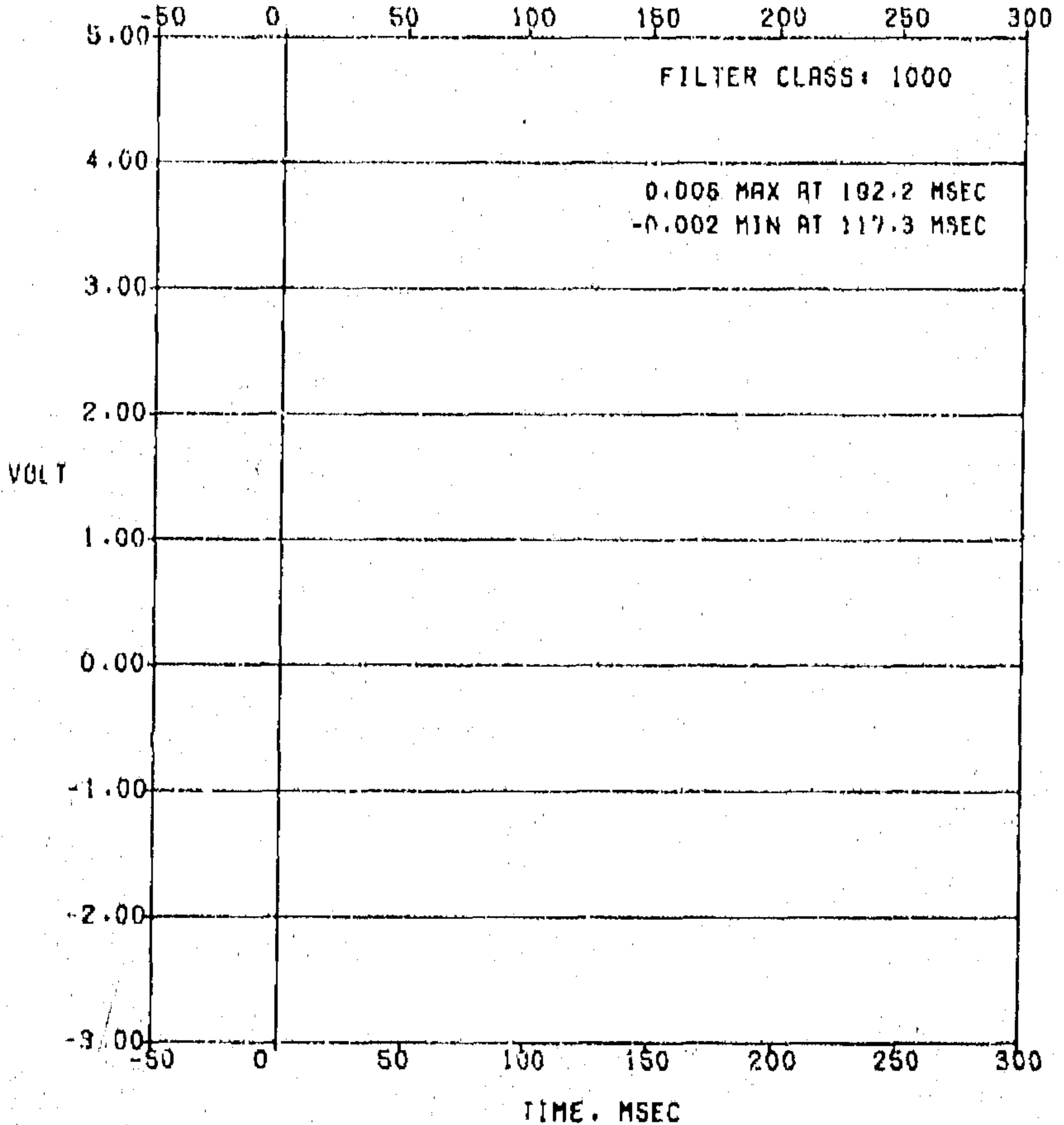


NOTE: NO EVENT

CHANNEL 081 08C 08B PRIMARY

EE

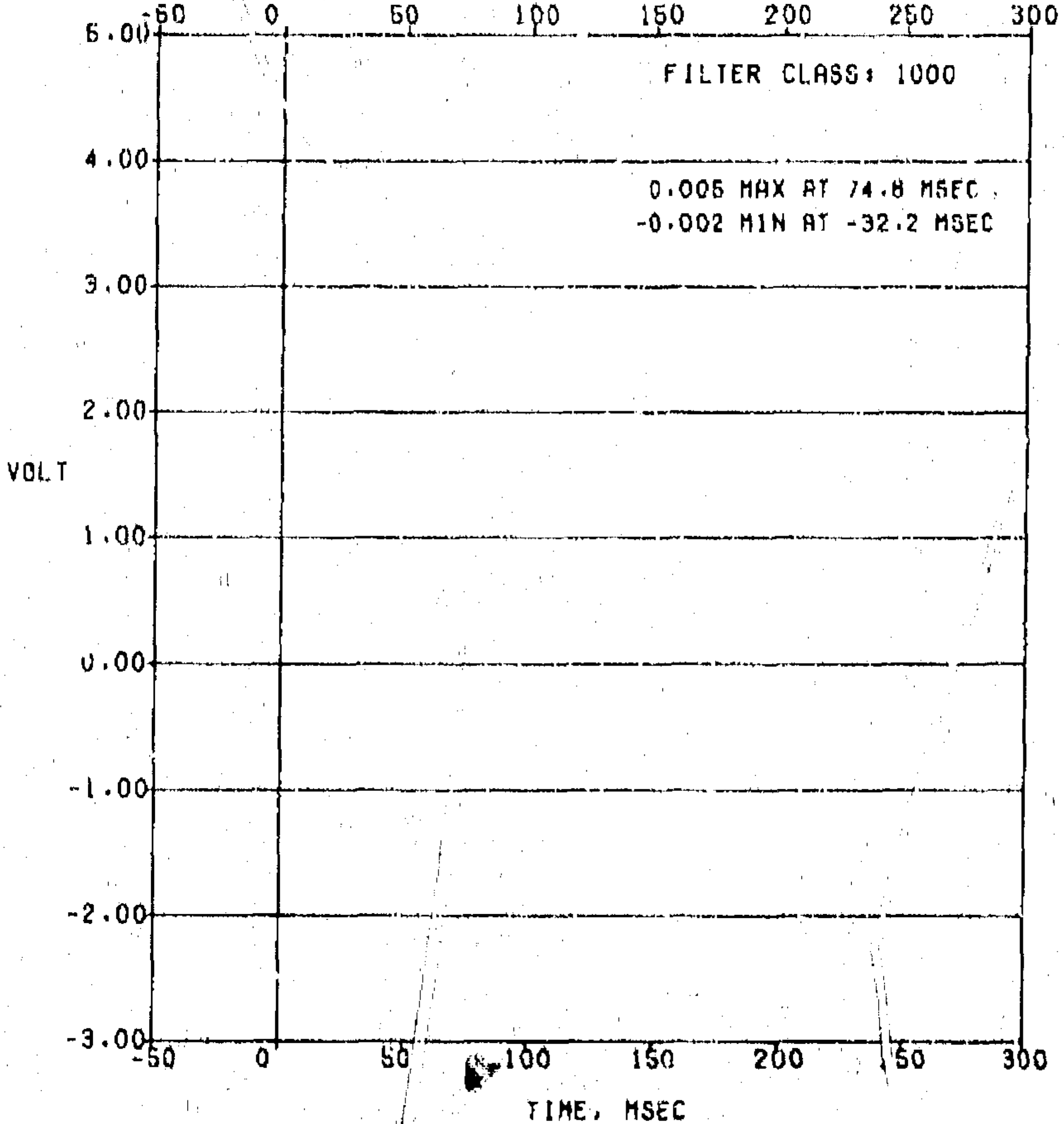
FILTER TYPE: 08DAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1660)
IMPACT ANALYSIS DEPT. 6320 DATA SET 08/27/99BF
AUG 27, 1999 ERRATA 1



***** NOTE *****
***** NO EVENT *****

CHANNEL 012 ORC 008 SECONDARY EE

FILTER TYPE: 080A5-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 6320 DATA SET 08/27/99BP
AUG 27, 1999 ERRATA 1

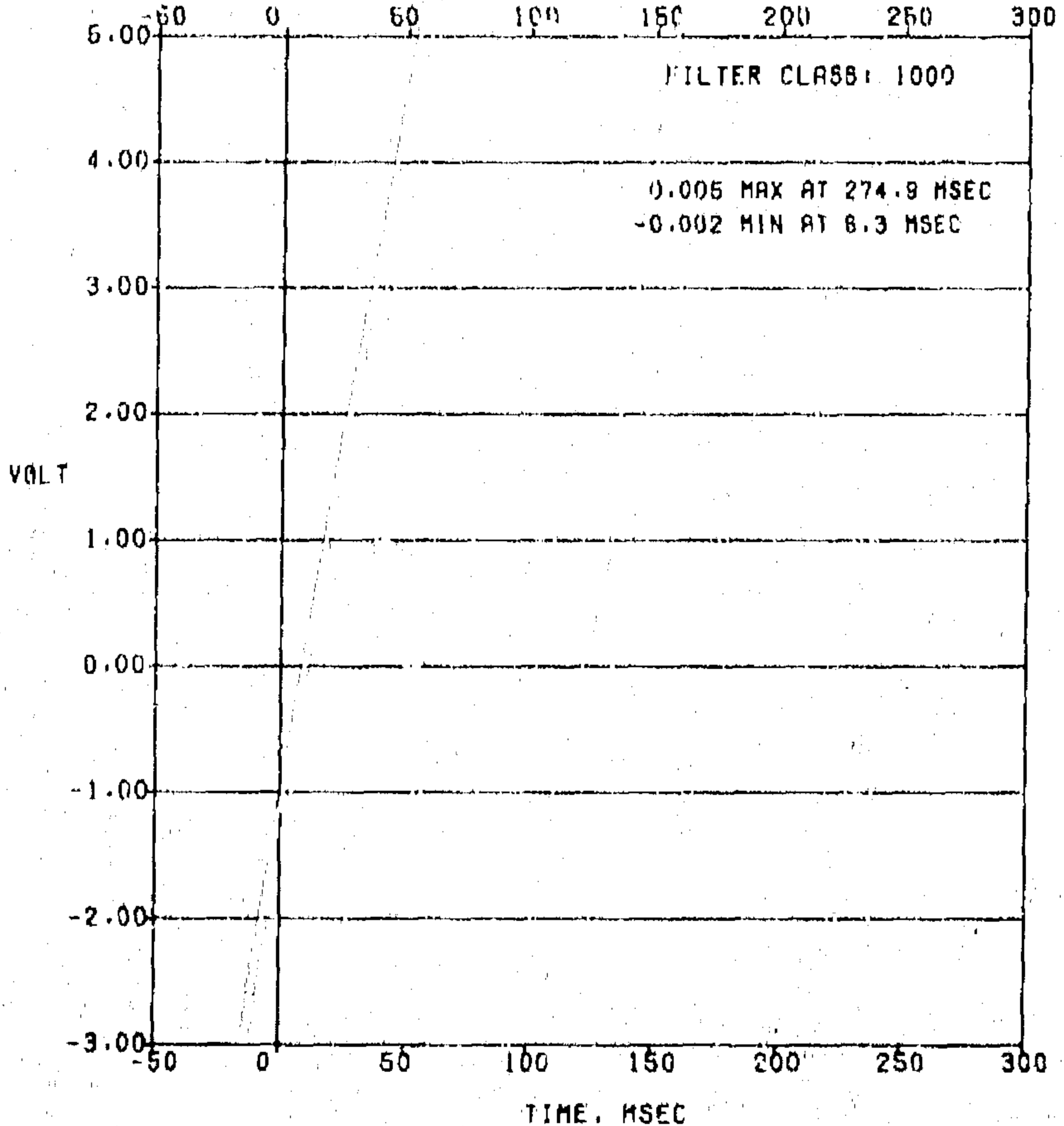


NOTE: NO EVENT

CHANNEL 083 (RC PAB PRIMARY)

EE

FILTER TYPE: 080AS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320 DATA SET 08/27/99BP
AUG 27, 1999 ERRATA 1

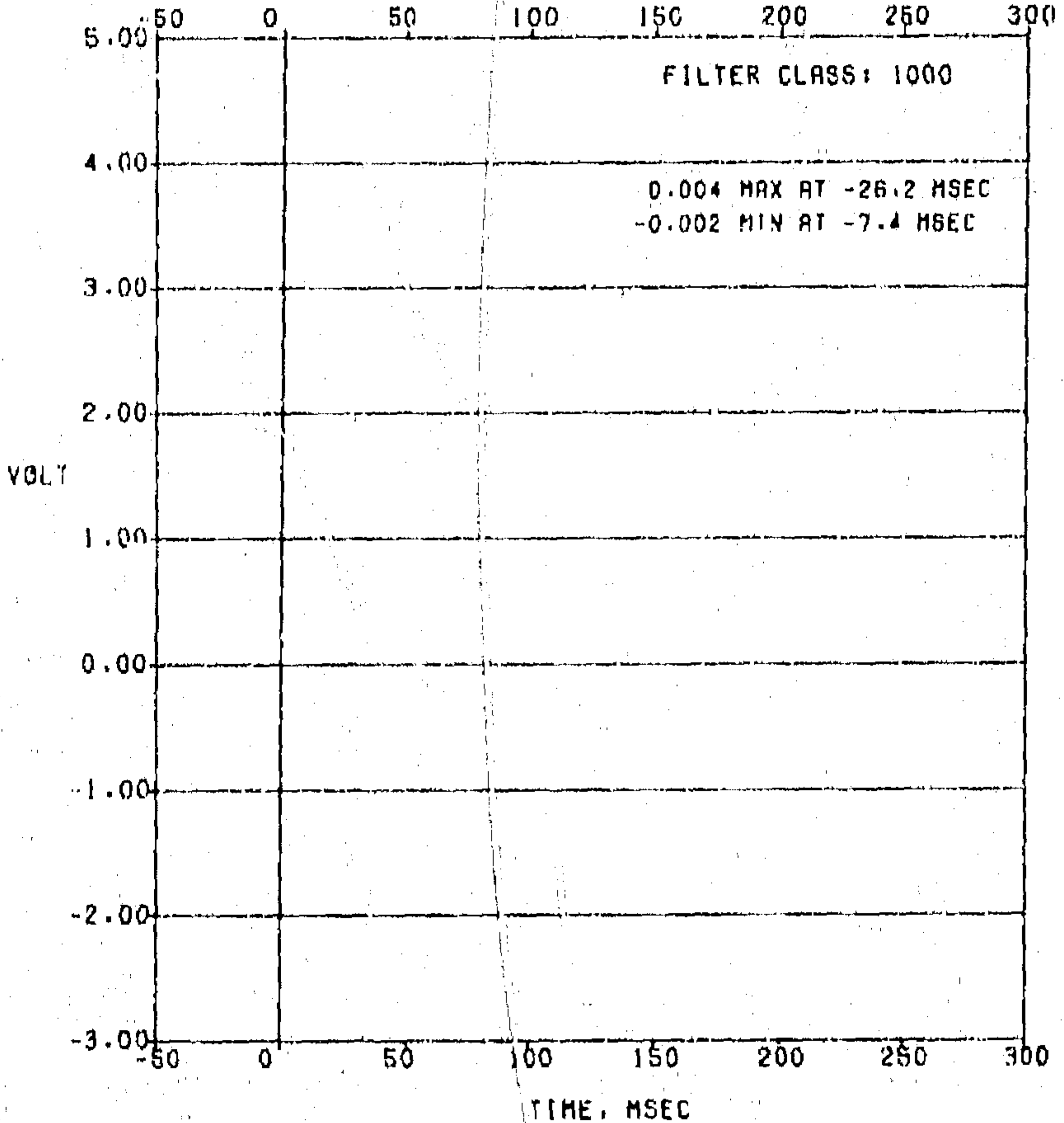


***** NOTE *****
***** NO EVENT *****

CHANNEL 084 ORC PAB SECONDARY

EE

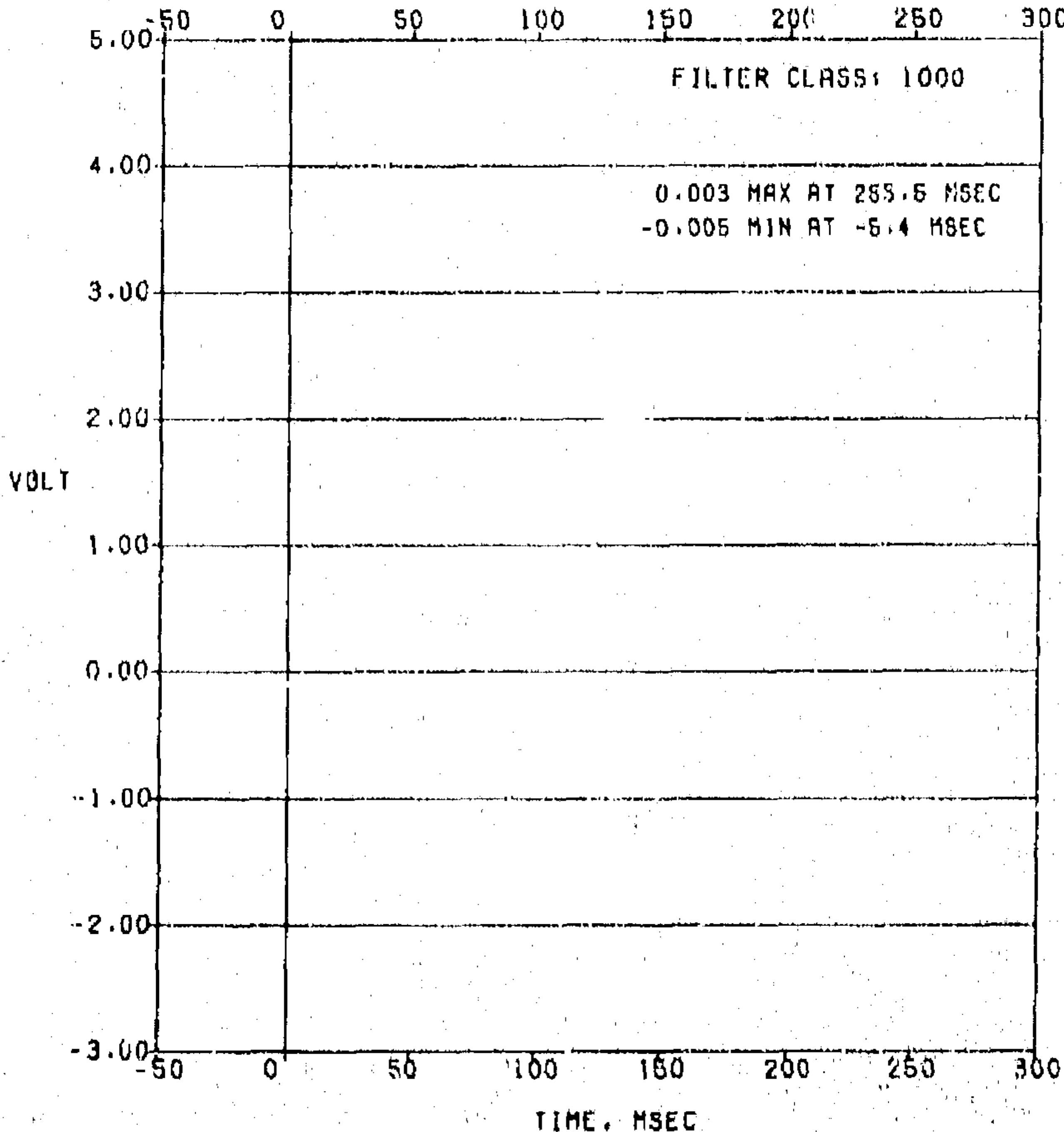
FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1660)
IMPACT ANALYSIS DEPT. 5320 DATA SET 08/27/99BP
AUG 27, 1999 ERRATA I



NOTE: NO EVENT

CHANNEL 085 SRC DR PRETENSIONER EE

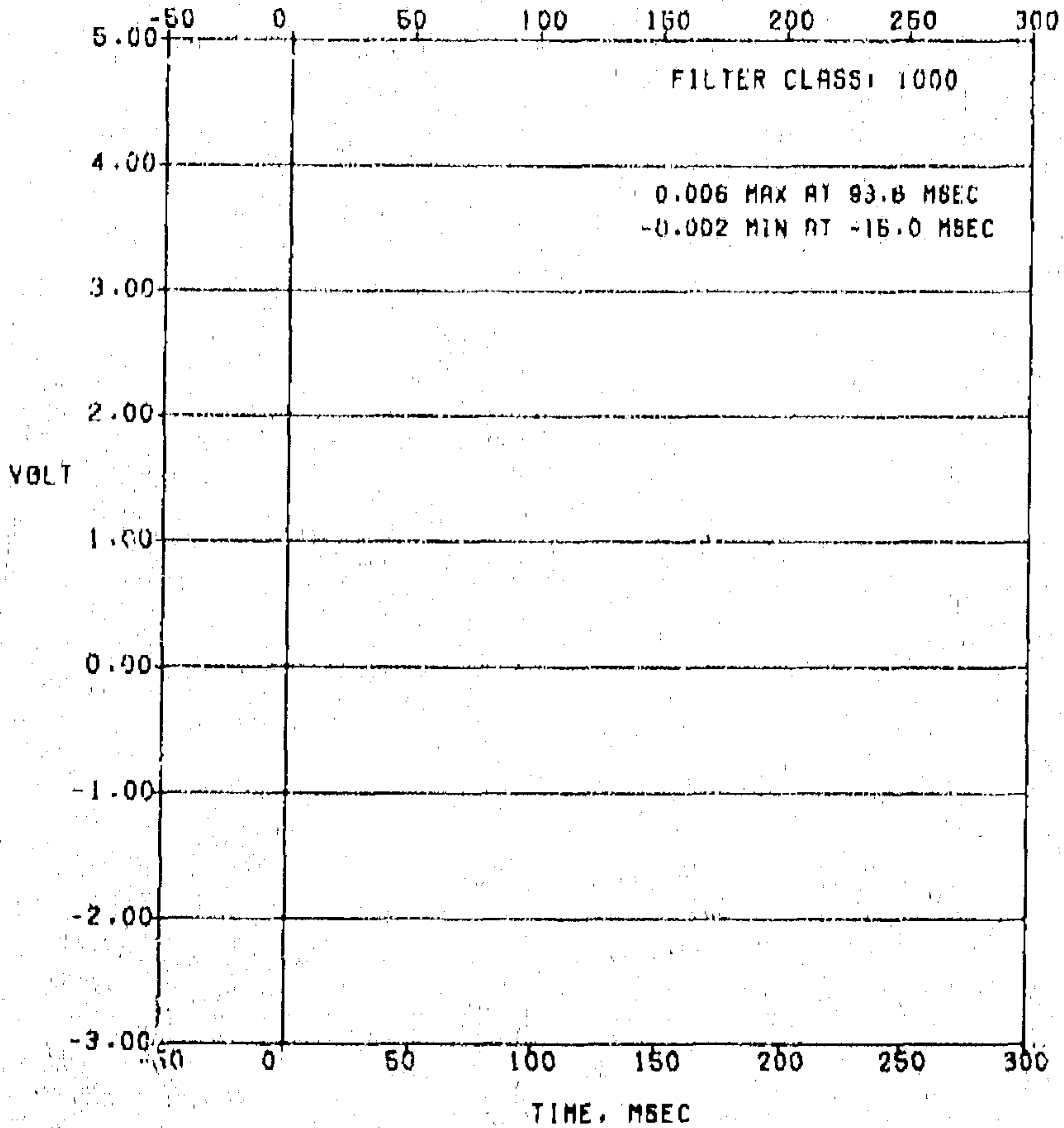
FILTER TYPE: 080AS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320 DATA SET 08/27/98P
AUG 27, 1999 ERRATA 1



NOTE: NO EVENT

CHANNEL 086 ORC DR KNEE BRD EE

FILTER TYPE: 08085-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320 DATA SET 08/27/99BP
AUG 27, 1999 ERRATA 1



***** NOTE *****
***** NO EVENT *****

VC07748 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KU4,04R

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CHANNEL 087 ORC INT ACCEL G

EE

FILTER TYPE: 000AS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)

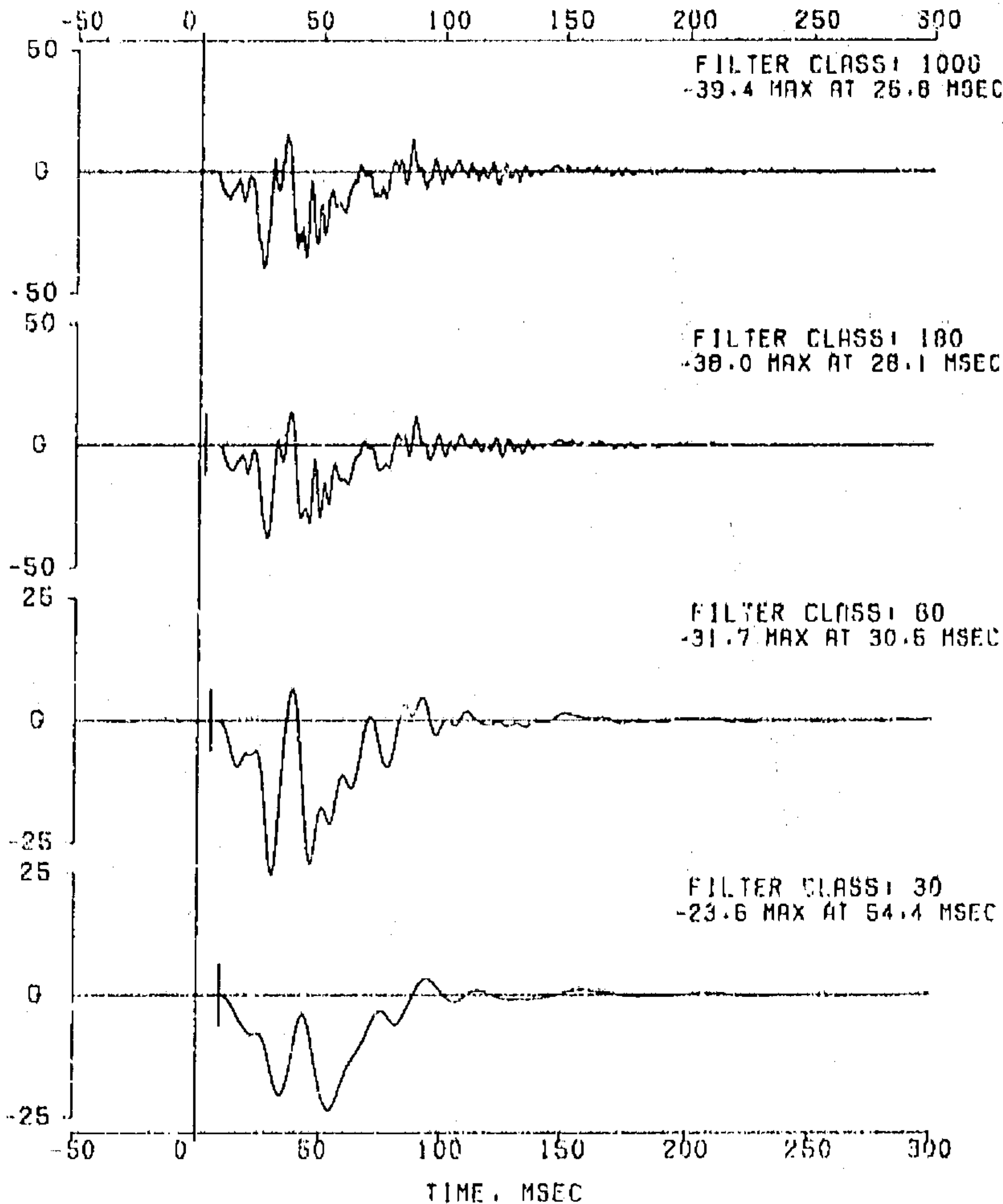
IMPACT ANALYSIS DEPT. 5320

DATA SET 08/27/99BP

AUG 27, 1999

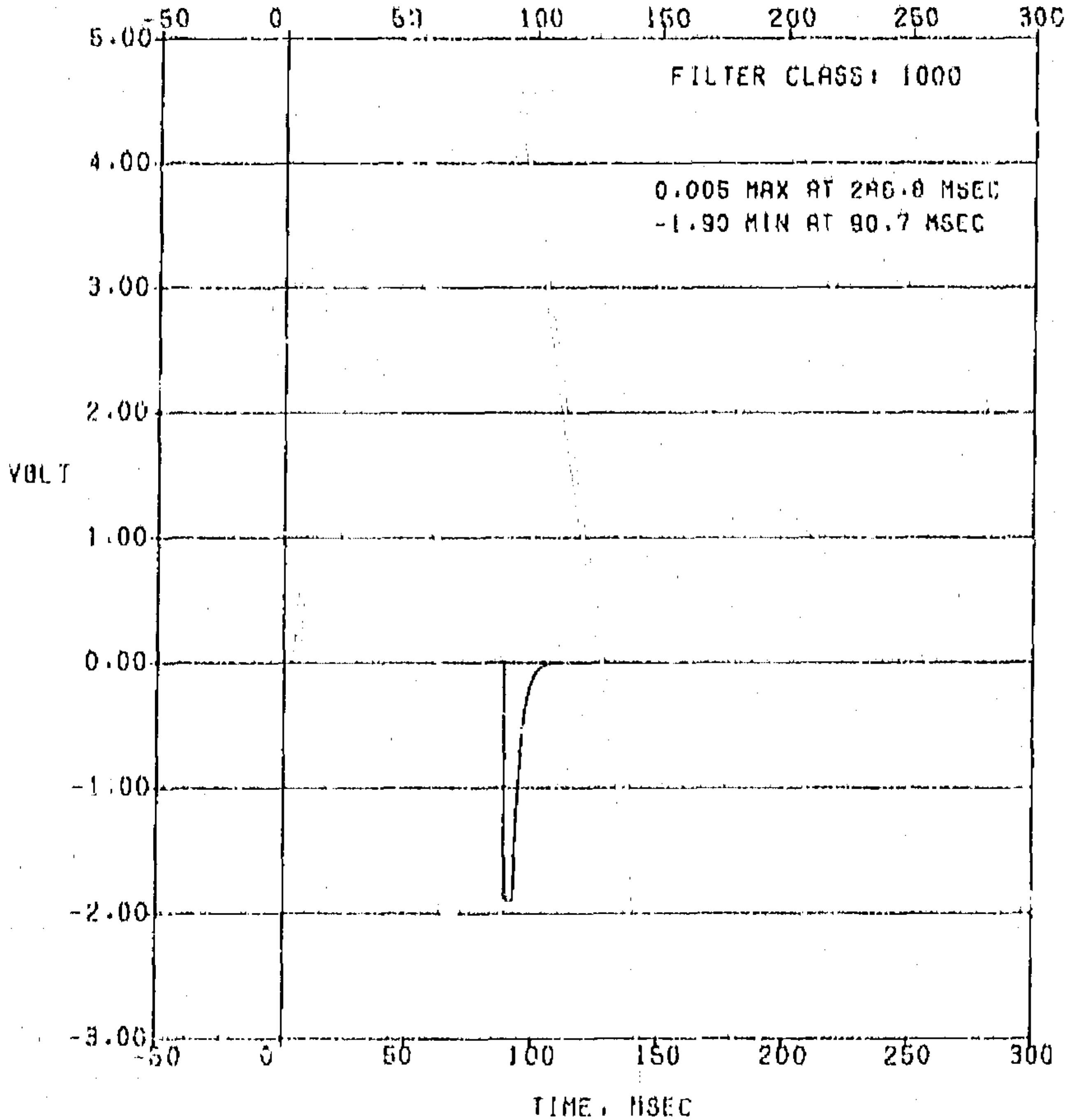
ERRATA

1



CHANNEL 088 ORC SAFING SENSOR EE

FILTER TYPE: OUDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320 DATA SET 08/27/99BP
AUG 27, 1999 ERRATA 1



NOTE: CHANNEL 088 SAFING SENSOR (EVENT) AT 88.7 MS

VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4204R

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2002 HY86 301 REAR IMPACT DEVELOPMENT

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CHANNEL 009 LT SAICH EXT

X P12114

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)

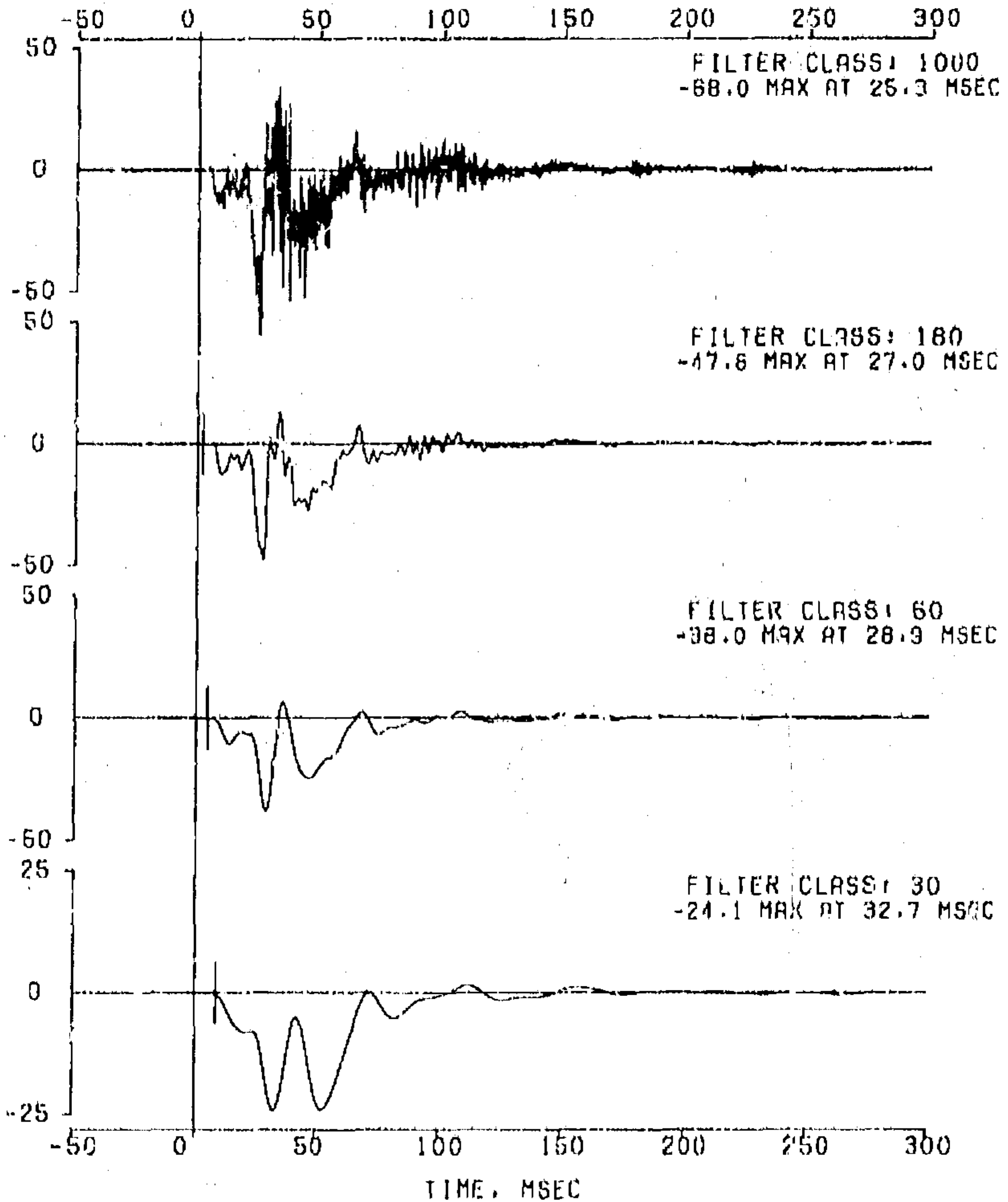
IMPACT ANALYSIS DEPT. 5320

DATA SET 08/27/99BP

AUG 27, 1999

ERRATA

1



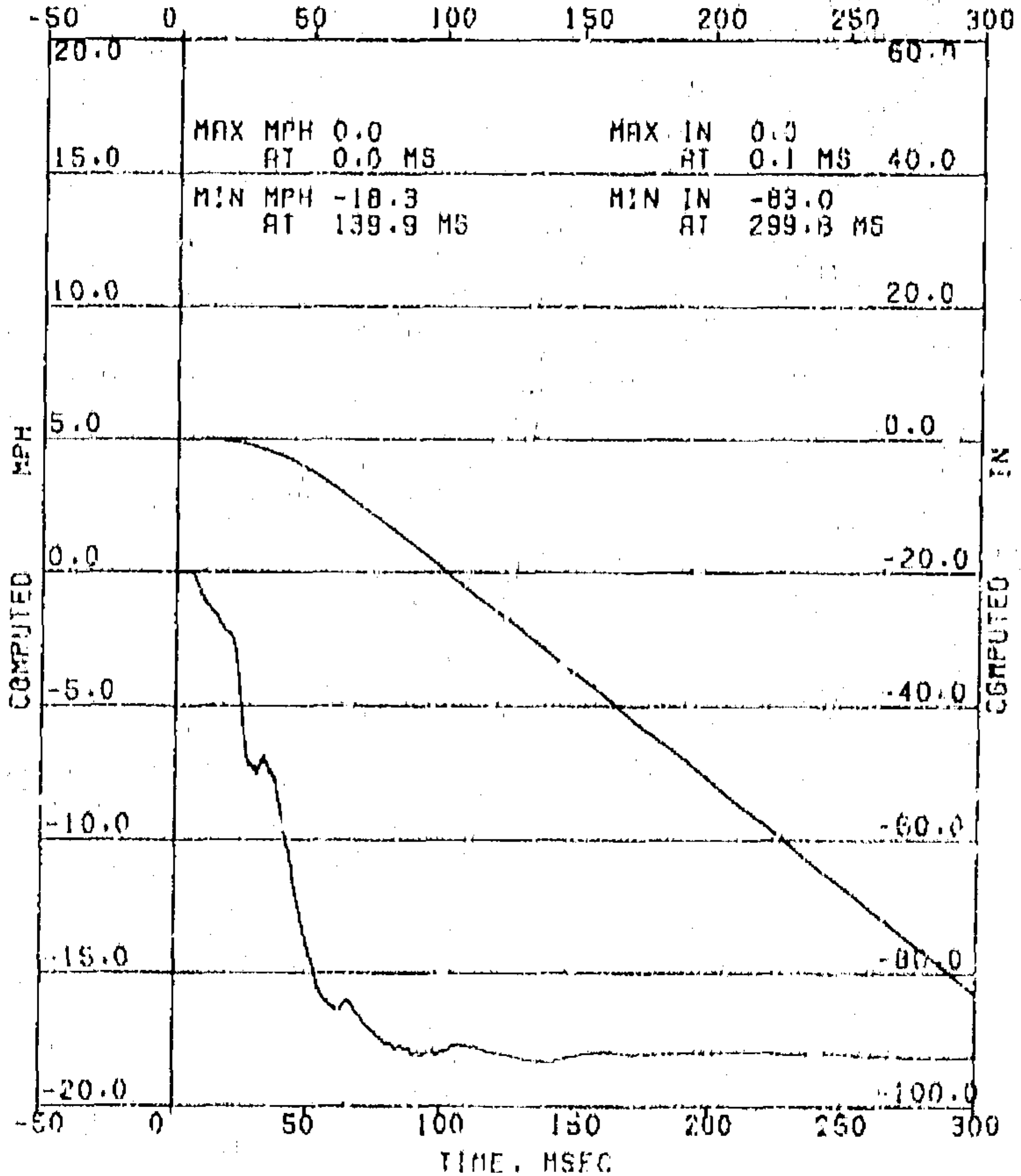
VCO7746 30 MPH REAR MOVING BARRIER, KJ1-74, ITEM KJ4264R
 2002 MY88 301 REAR IMPACT DEVELOPMENT
 CHANNEL 089 LT SAICH EXT X P12114

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FILTER TYPE: 08086-111 RESPONSE CORRECTION: CLASS 1000 FILTER(1650)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 08/27/998P
 ERRATA 1

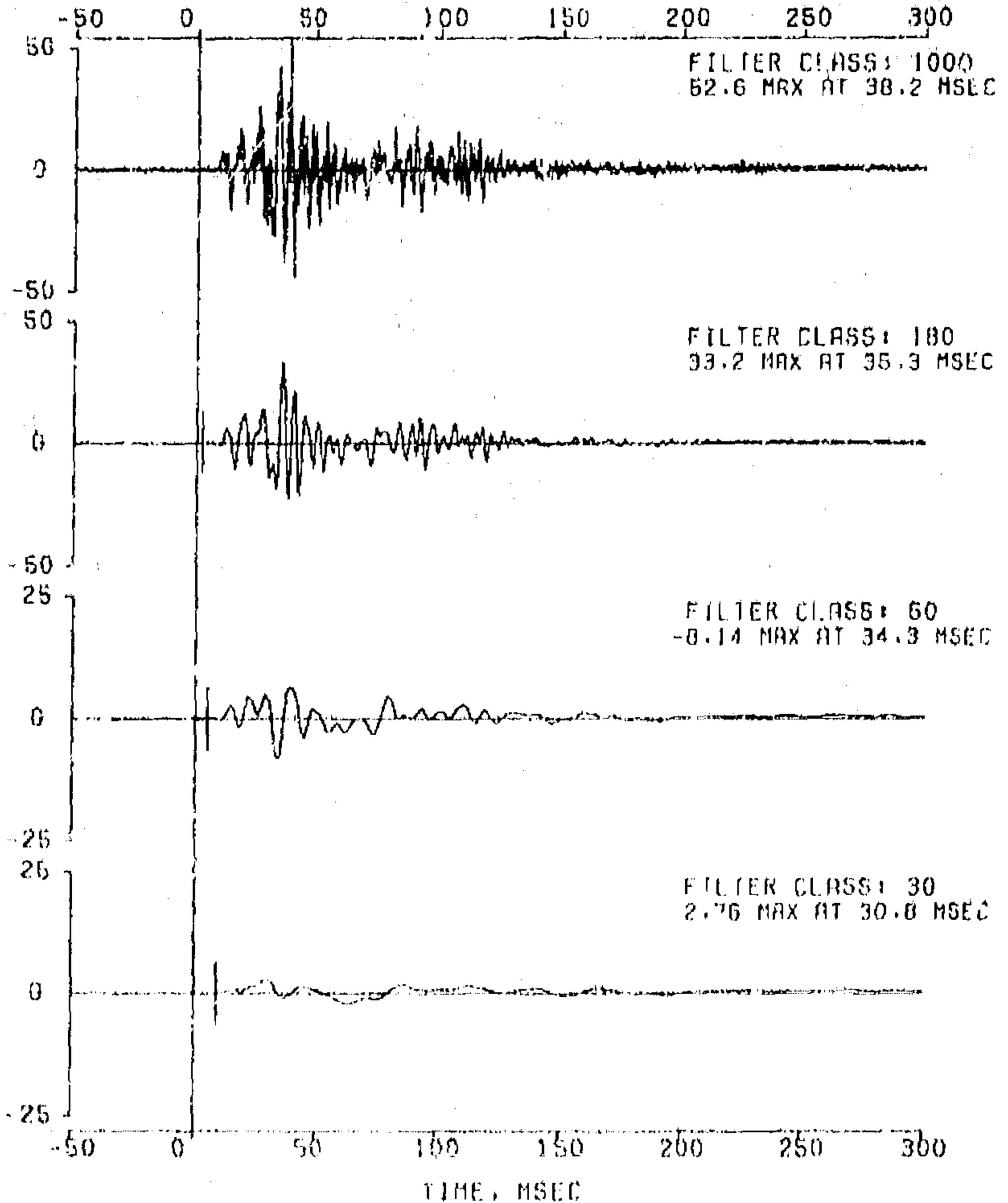


COMPUTED MPH
 COMPUTED IN

VC07746 39 MPH REAR MOVING BARRIER, KJT-74, ITER KJ4264R
2001 MY99 301 REAR IMPACT DEVELOPMENT
CHANNEL 000 LT SAICH EXT Y P12129
FILTER TYPE: 080A5-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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DATA SET 08/27/99BP
ERRATA 1



VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R

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2002 MYG6 301 REAR IMPACT DEVELOPMENT

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CHANNEL 091 RT SHICM EXT

X P12113

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)

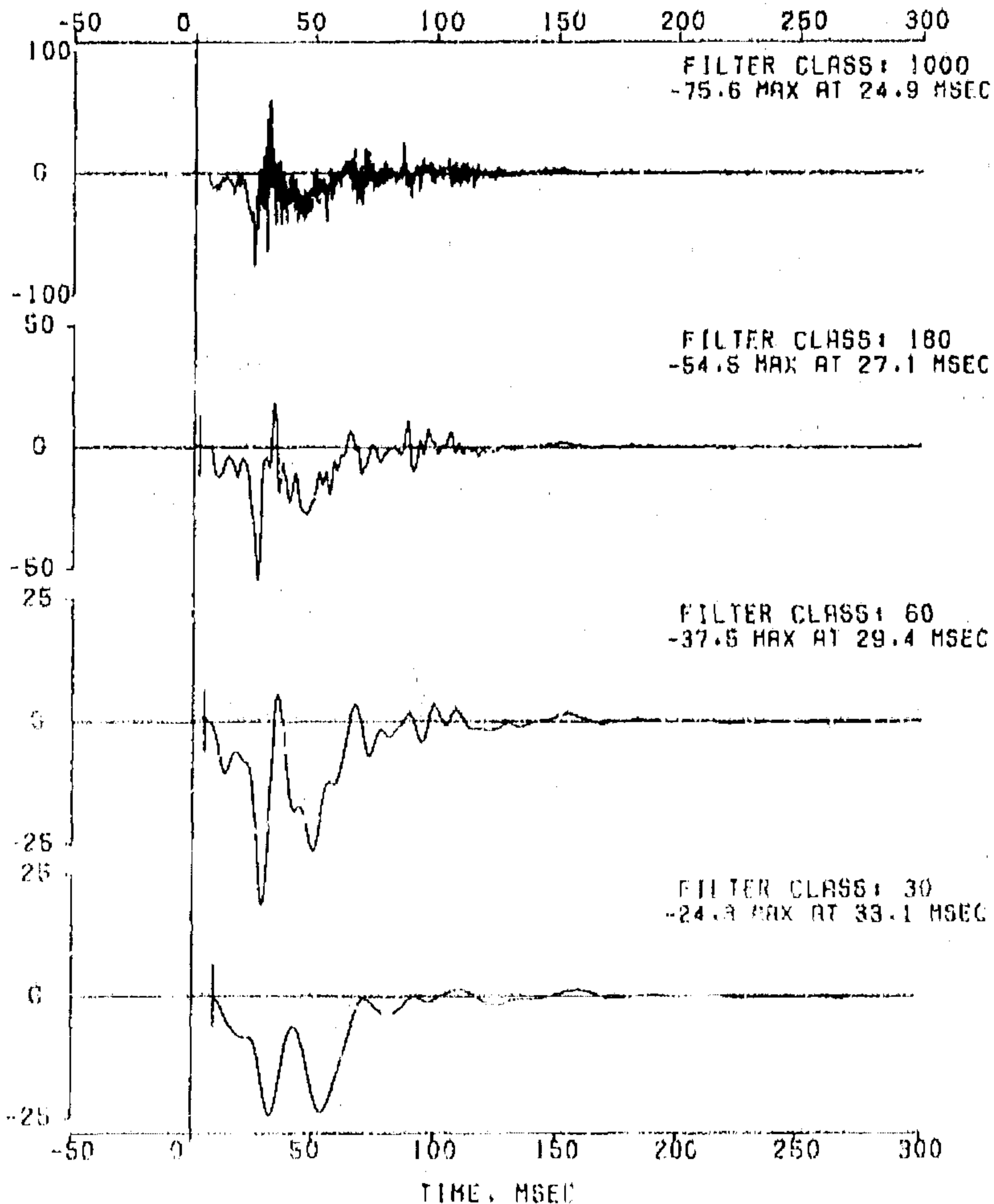
IMPACT ANALYSIS DEPT. 5320

DATA SET 08/27/99BP

RUC 27.1999

ERRATA

1



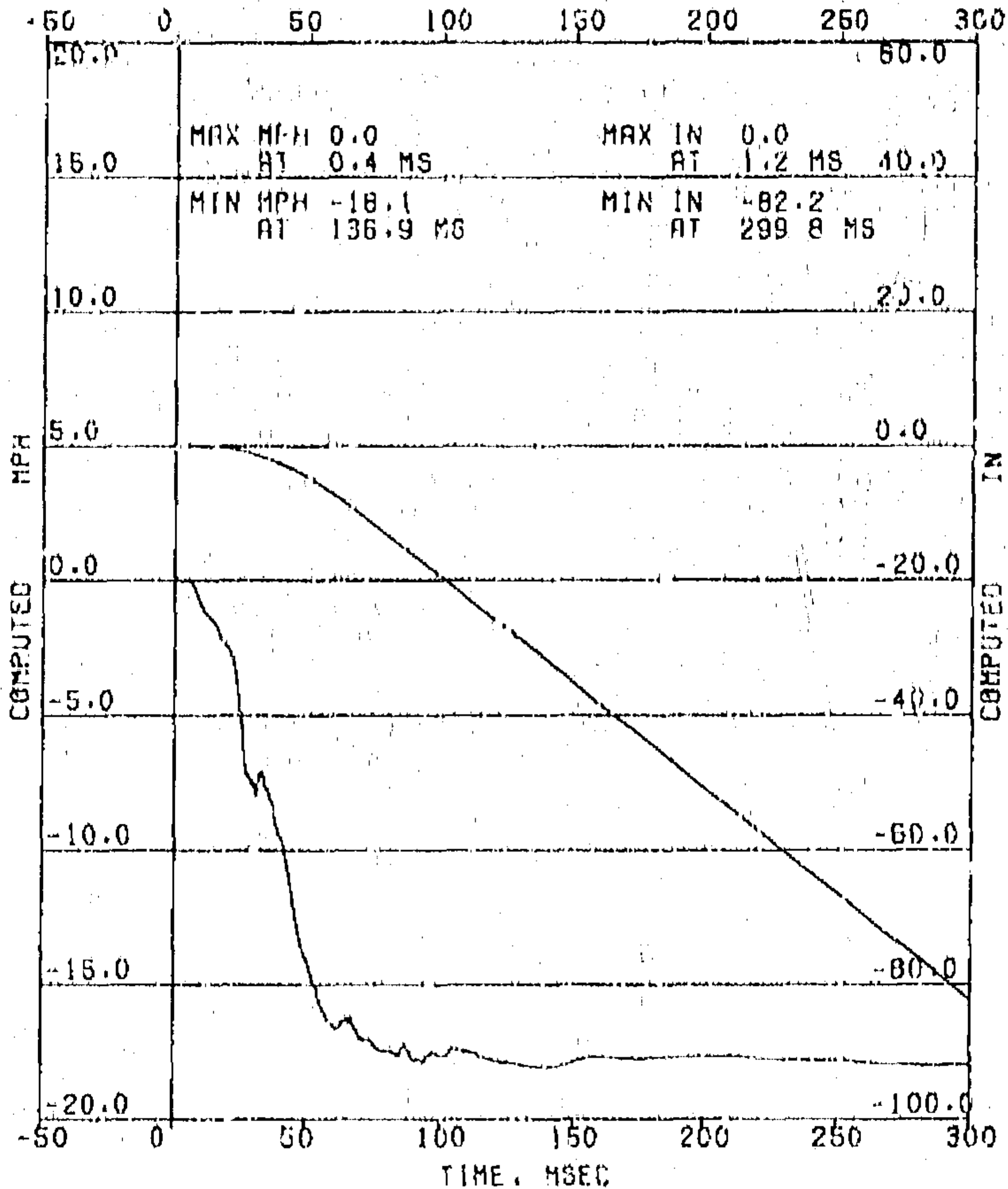
VC07746 30 MPH REAR MOVING BARRIER, KJ1-74, TEK KJ4264R
 2002 MYBB 501 REAR IMPACT DEVELOPMENT
 CHANNEL 091 RT SAICH EXT X F12113

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FILTER TYPE: 080MS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1660)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1989

DATA SET 08/27/99BP
 ERRATA 1



COMPUTED MPH
 COMPUTED IN

VC07740 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R

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2002 MY35 301 REAR IMPACT DEVELOPMENT

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CHANNEL 032 RT SAICH EXT

Y P11998

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1660)

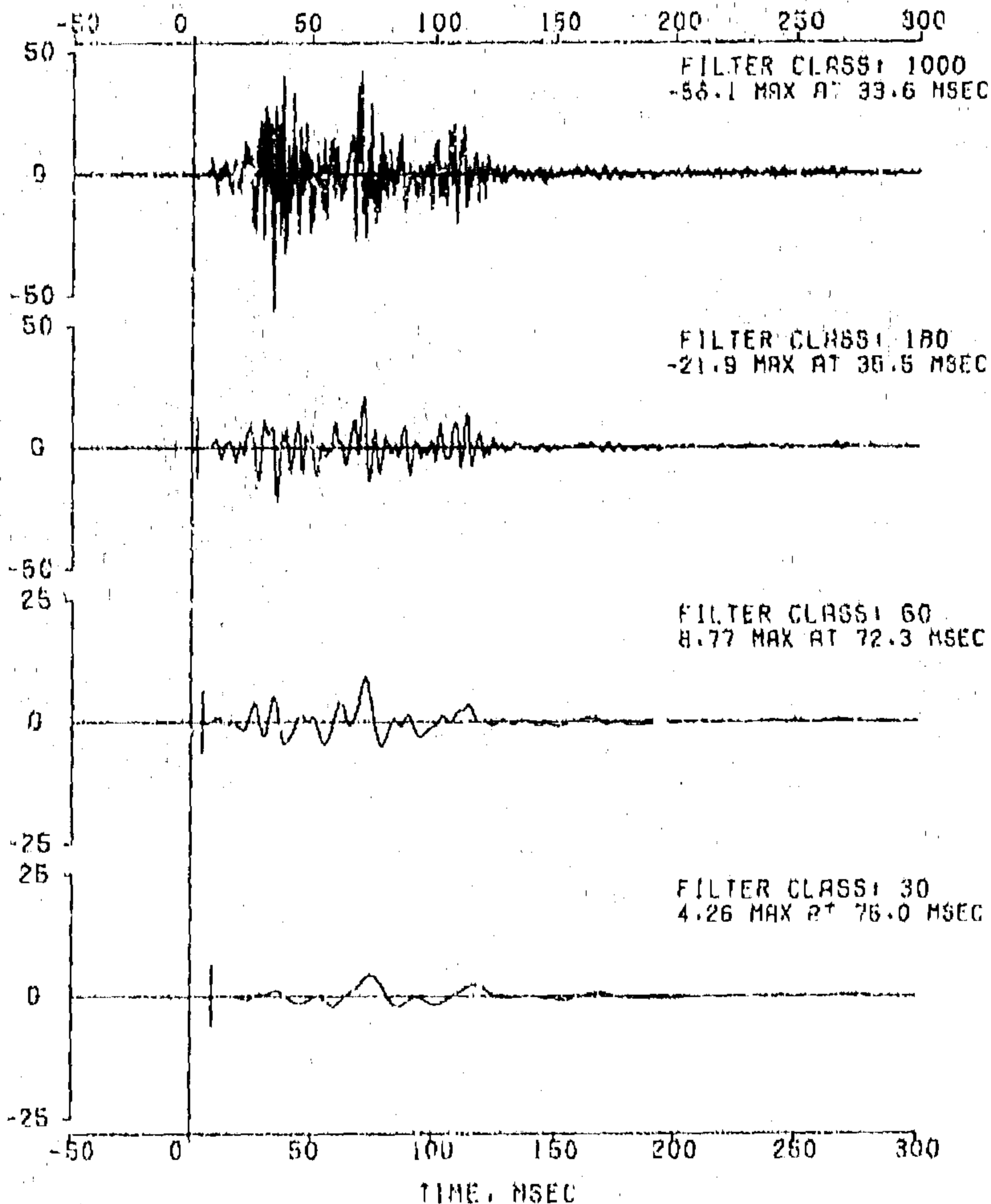
IMPACT ANALYSIS DEPT. 5320

DATA SET 08/27/998P

AUG 27, 1999

ERRATA

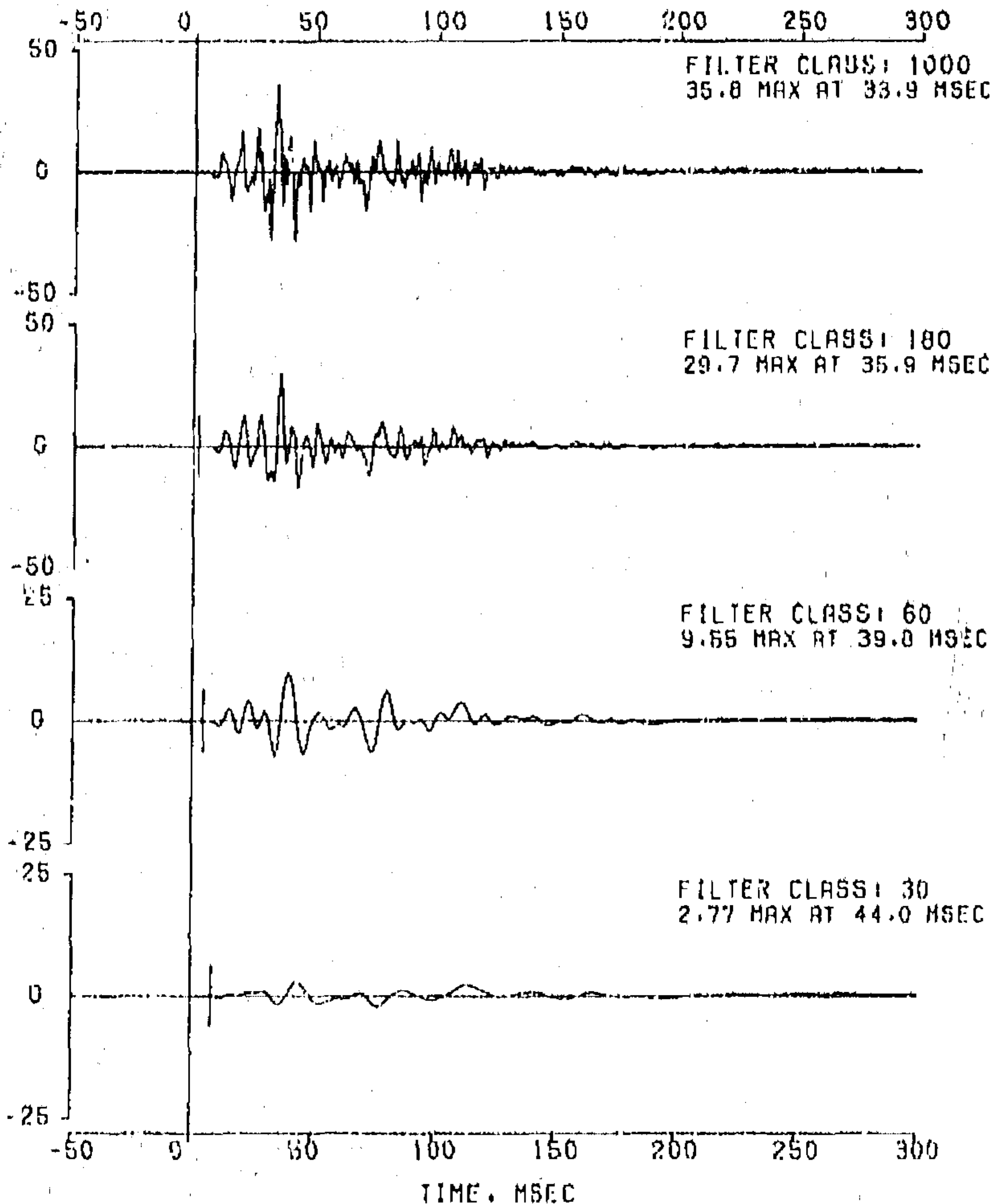
1



VC07748 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
2002 MY98 301 REAR IMPACT DEVELOPMENT
CHANNEL 093 LT SAICM INT 0
FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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DATA SET 08/27/99AP
ERRATA 1



VC07746 30 MPH REAR MOVING BARRIER, KJ4-7A, ITEM KJ4264R

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2002 MVS9 301 REAR IMPACT DEVELOPMENT

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CHANNEL 094 LT SAICH INT 0

EE

FILTER TYPE: 080AS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)

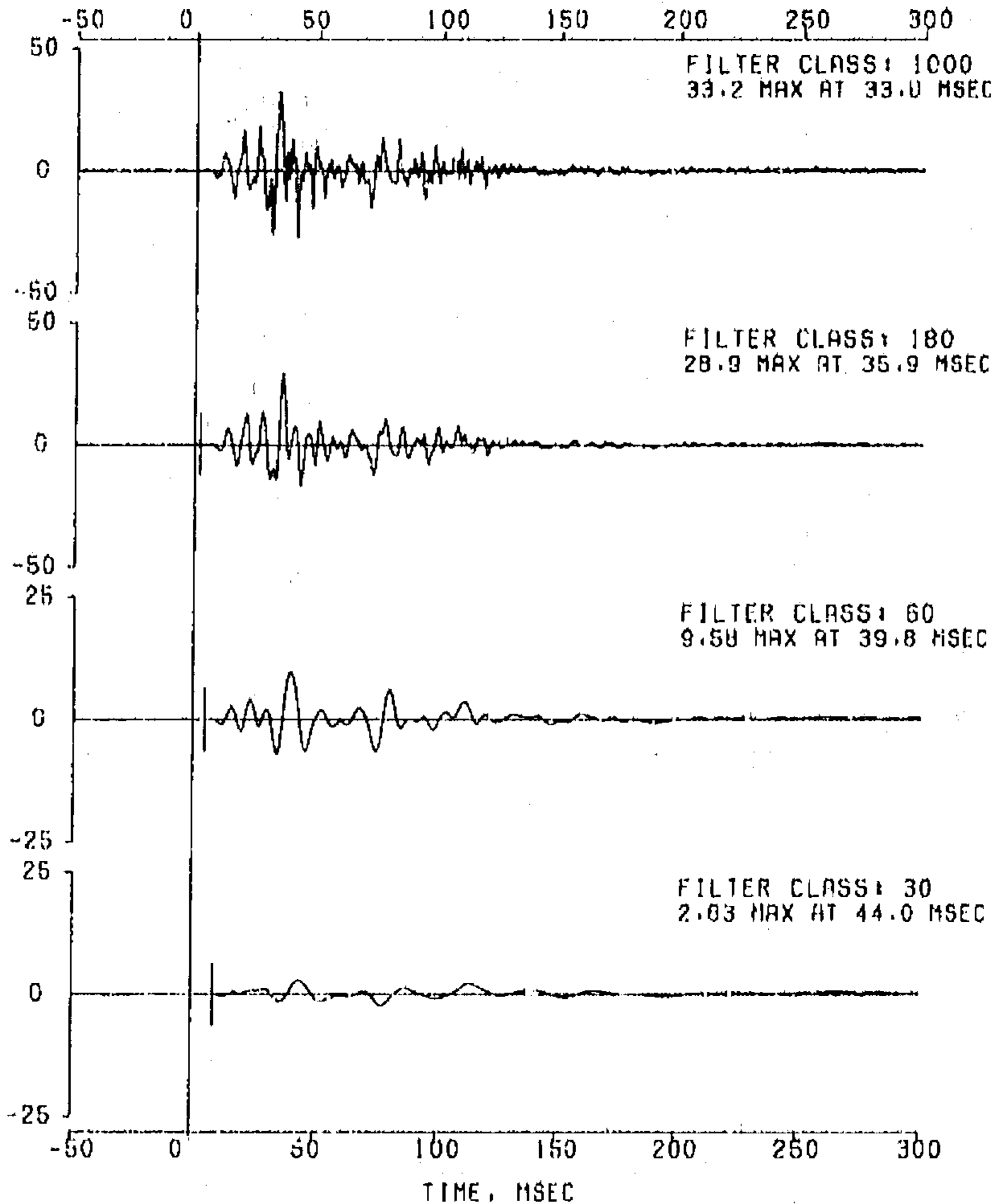
IMPACT ANALYSIS DEPT. 5320

DATA SET 08/27/99BP

AUG 27, 1999

ERRATA

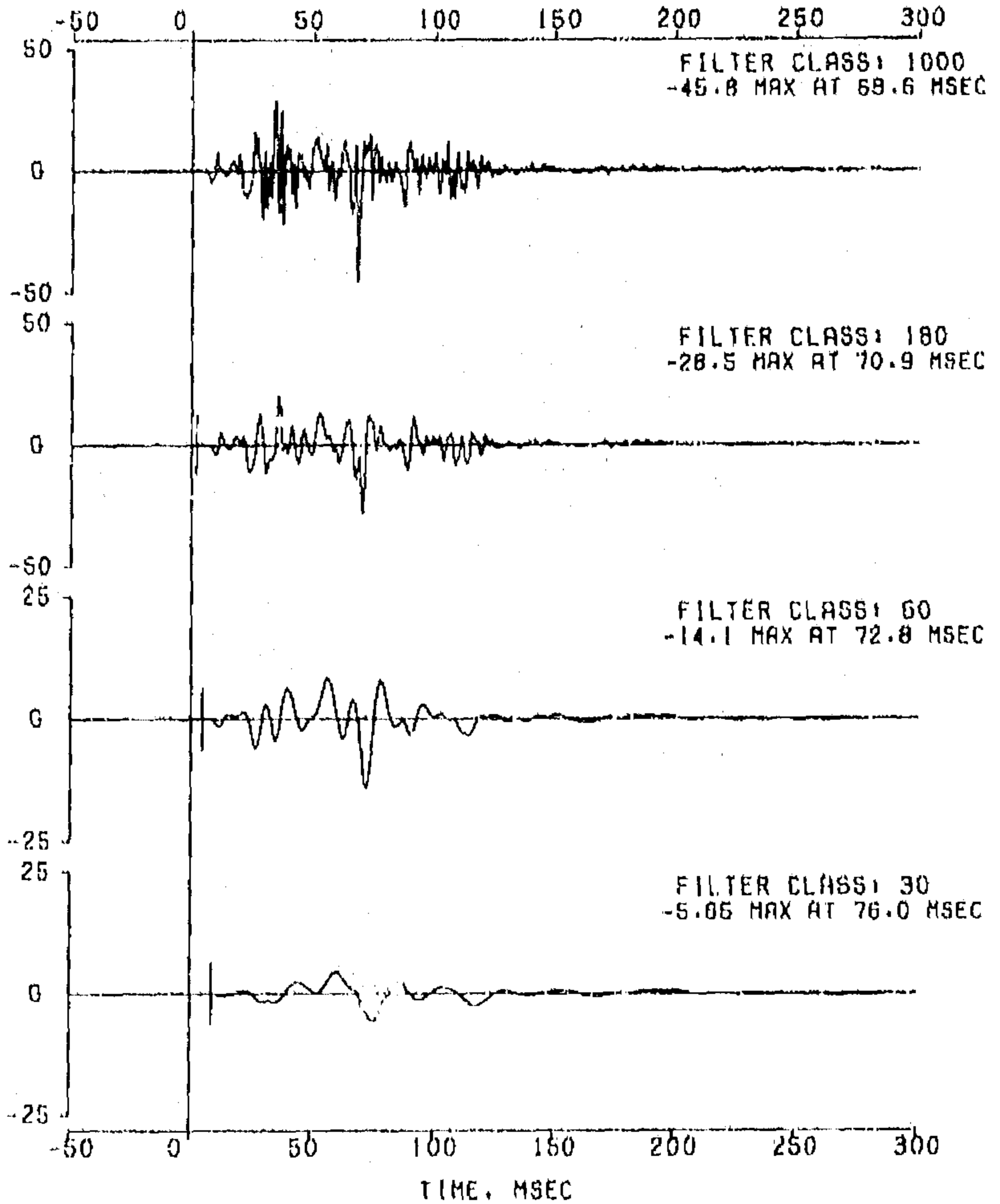
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VC07748 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4284R
2002 MYSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 098 RT SAICH INT 0 EE
FILTER TYPE: 08DAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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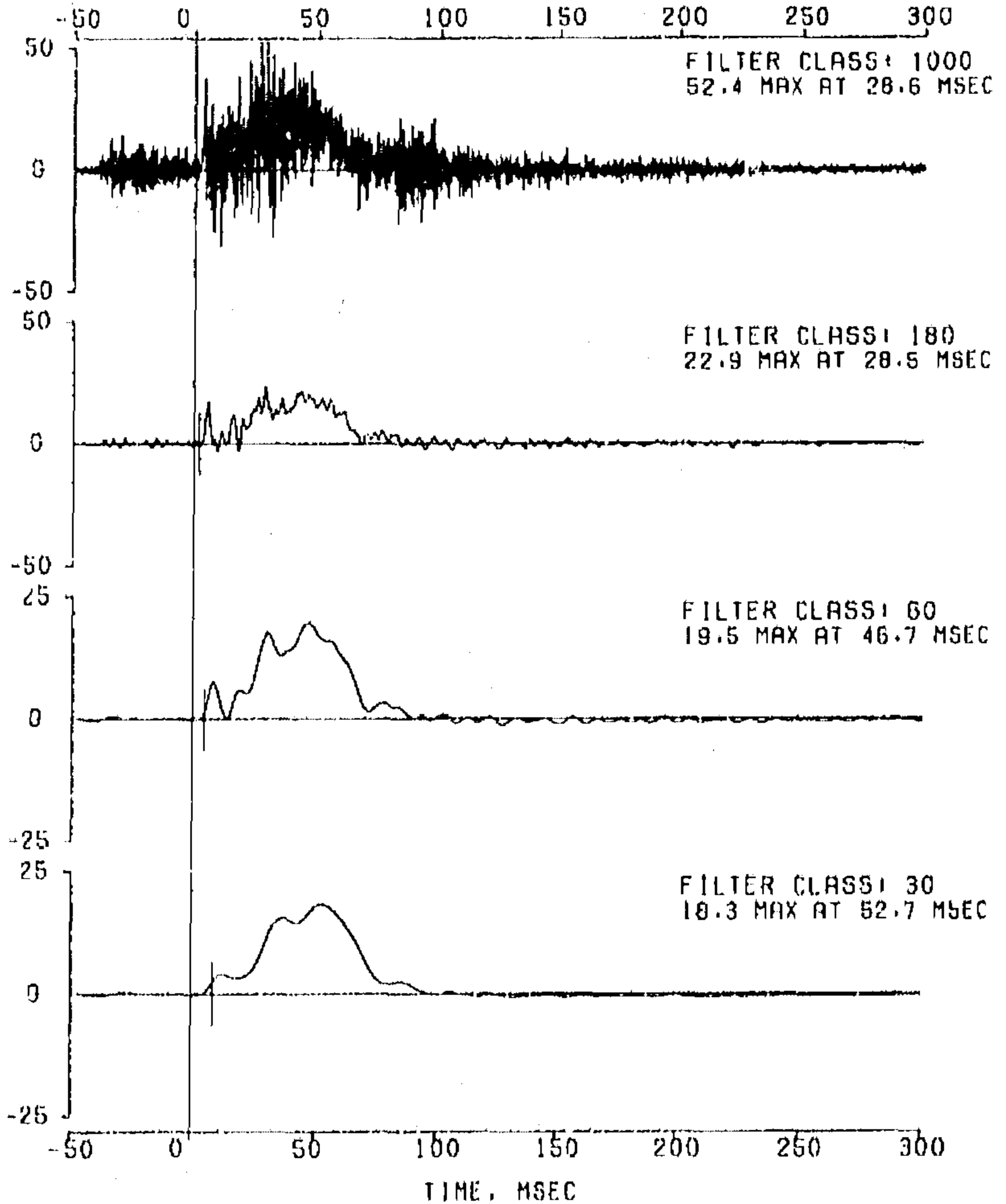
DATA SET 08/27/99AP
ERRATA 1



VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
2002 MY55 301 REAR IMPACT DEVELOPMENT
CHANNEL 097 LT RAIL MBAR MID X 80418
FILTER TYPE: 08DAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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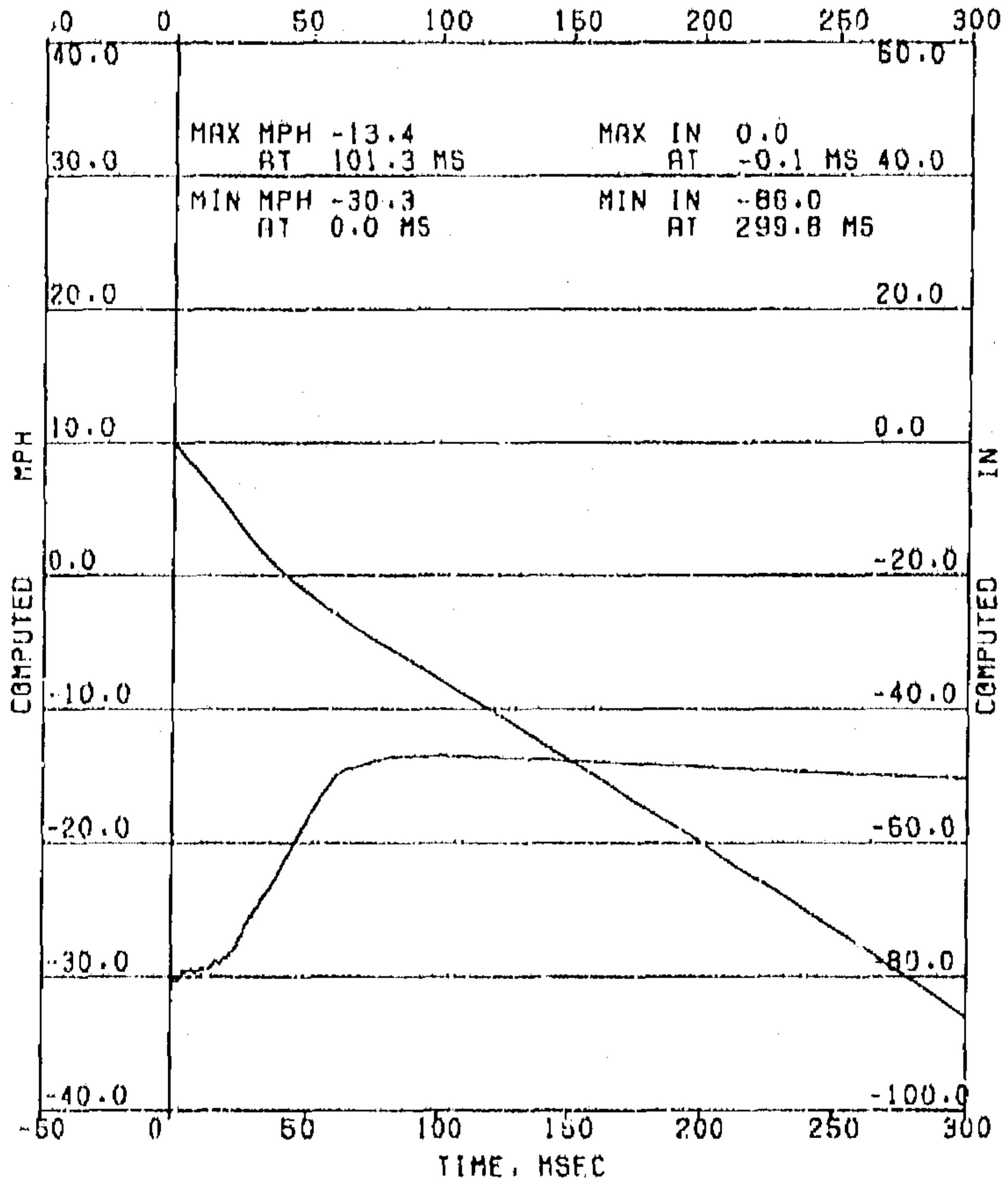
DATA SET 08/27/99BQ
ERRATA 1



FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
 FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
 AUG 27, 1999

DATA SET 08/27/99BQ
 ERRATA 1

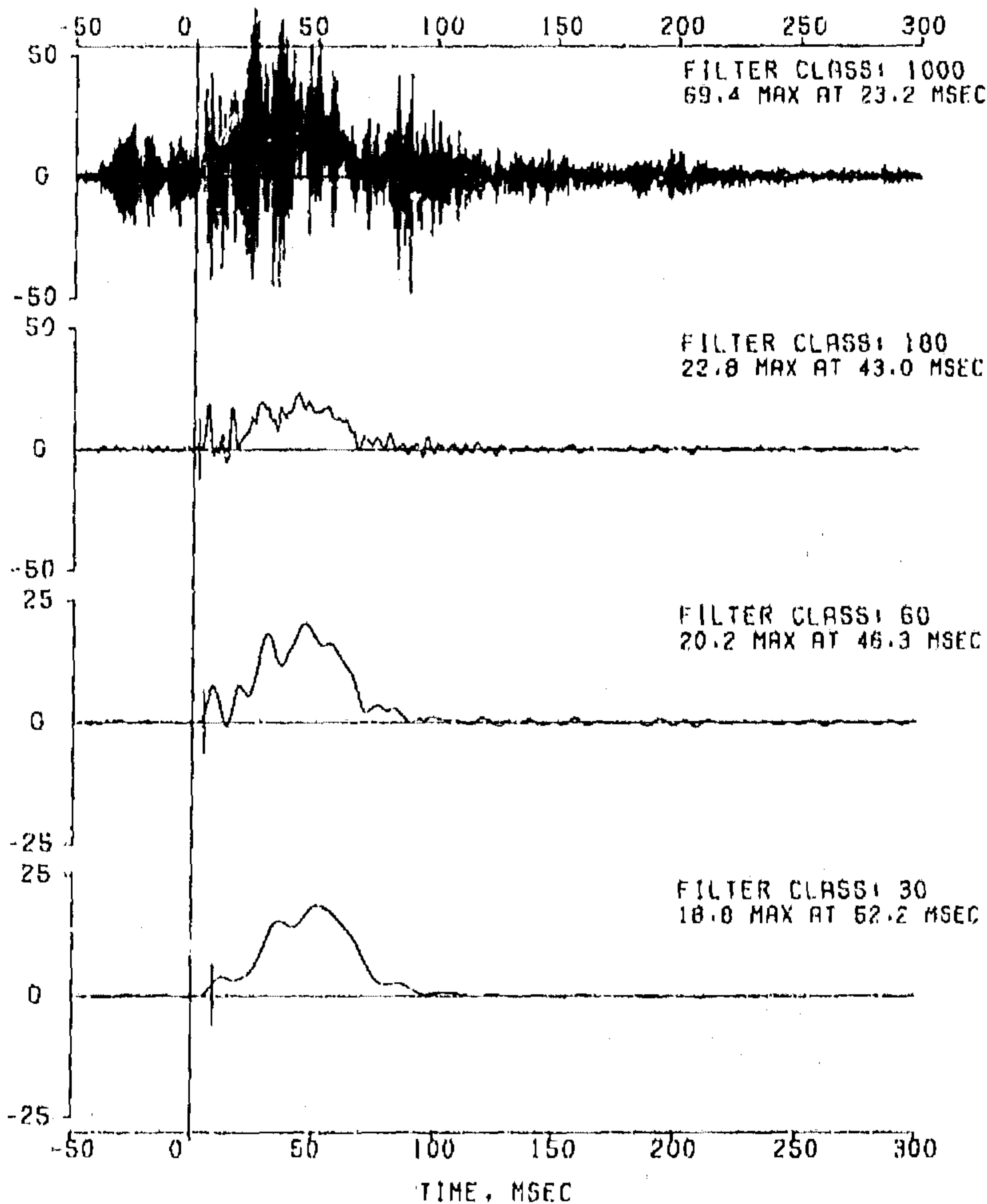


COMPUTED MPH
 COMPUTED IN

VC07746 30 MPH REAR MOVING BARRIER, KJT-74, ITEM KJ4264R
2002 HYSS 301 REAR IMPACT DEVELOPMENT
CHANNEL 098 RT RAIL MBAR MID X 80453
FILTER TYPE: 080AS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1600)
IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

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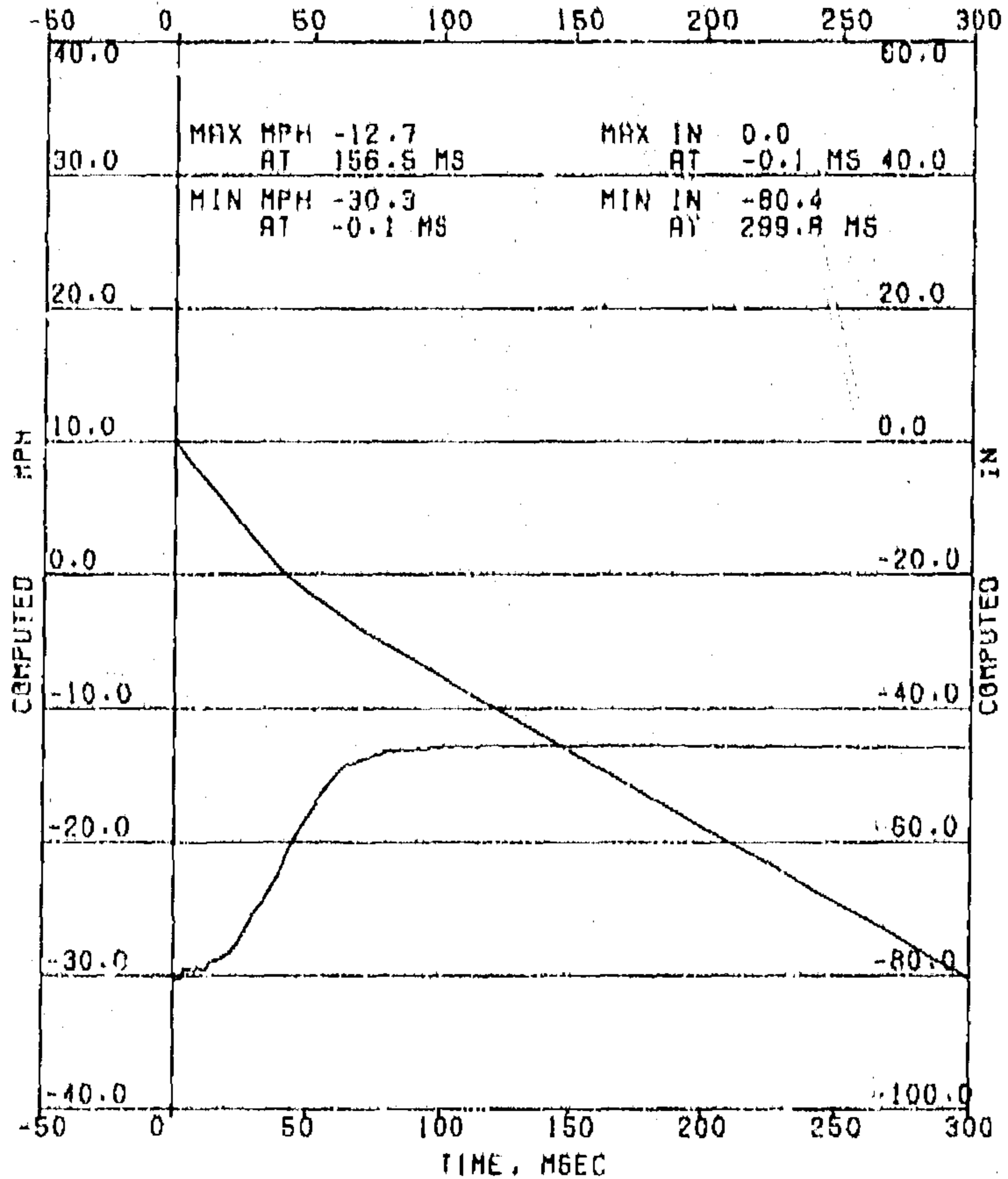
DATA SET 08/27/9900
ERRATA 1



FILTER TYPE: DDAS-111 RESPONSE CORRECTION, CLASS 1000 FILTER(1660)
FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320
AUG 27, 1999

DATA SET 08/27/9980
ERRATA 1



COMPUTED MPH
COMPUTED IN

FILED OCT 2 1999

INTER COMPANY CORRESPONDENCE

DATE 10/13/99

TO
DISTRIBUTION

FROM
M. E. CREPS

DEPARTMENT
5320

PLANT/OFFICE
CTC

CIMS NUMBER
481-00-27

SUBJECT:
REAR DYNAMIC CRUSH ANALYSIS
VC07746 30 MPH REAR MOVING BARRIER, KJT-74 ITEM KJ4264R
2002 HYSS 301 REAR IMPACT DEVELOPMENT.
TEST DATE 08/27/99

TEST PURPOSE PRIMARY, 2002 USA 301 DEVELOPMENT.
DETERMINE FUEL SYSTEM INTEGRITY.

IMPACT TYPE TARGET SPEED: 30.1 MPH
DAMAGE LOCATION: REAR
BARRIER TYPE: REAR TYPE IV
BARRIER SURFACE: PLYWOOD

VEHICLE BODY CLASS: KJ
CAR LINE: J
BODY: 74
ENGINE: 2.4 LITRE
ENGINE NOTE: ELECTRONIC FUEL INJECTION
TRANSMISSION: 5 SPEED MANUAL
TRANS. NOTE:
VIN AS TESTED: 1JF47581120 [REDACTED] MOD.
VIN AS BUILT: 1JF47581120 [REDACTED] MOD.

TEST SPEED 30.3 TRAP

TEST WEIGHT (LBS) 4040 TOTAL, 1920 FRONT, 2120 REAR

OCCUPANTS LEFT FRONT, HYBRID II BALLAST, AD-48
RESTRAINT-BELTS ONLY.
RIGHT FRONT, HYBRID II BALLAST, AD-61
RESTRAINT-BELTS ONLY.

BUILD CONDITION

TARGET WEIGHT (LBS) 4415 TOTAL, 1735 FRONT, 1680 REAR REP. BASE WT.
14L 2X4 VEHICLE (CHART DATE 3/17/99) W/OUT
LUGGAGE OR OCCUPANTS.
FUEL AND BALLAST 17 GALLONS OF STODDARD SOLVENT,
300 LBS,
50 IN REAR

REAR DYNAMIC CRUSH, PITCH, AND REAR WHEEL MOTION RELATIVE TO
THE FRONT SILL HAVE BEEN DETERMINED BY FILM ANALYSIS. TIME
WAS BASED ON CAMERA TIMING DATA. LATERAL VALUES WERE HELD
CONSTANT THROUGHOUT THE ANALYSIS.

REAR DYNAMIC CRUSH 17.6 ±3R- 1 INCH AT 58 ±0R- 5 MSEC.

S. A. Helquist
S. A. HELQUIST

M. E. Creps
M. E. CREPS

GRAPHS - 4

D I C T I O N A R Y O F T E R M S

U S E D I N S T A N D A R D R E P O R T S

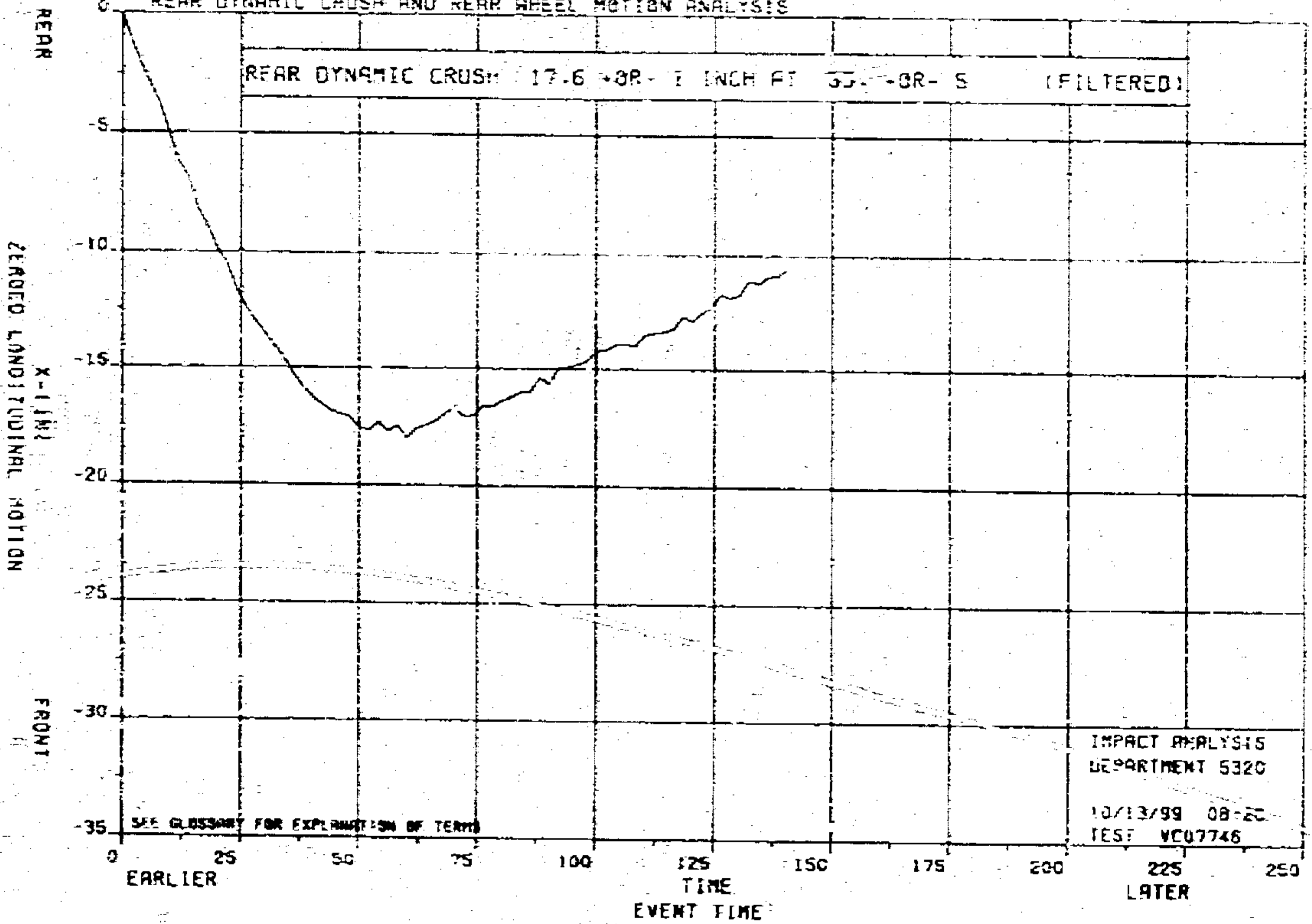
AD	ANTHROPOMORPHIC DEVICE
ADU	ANTHROPOMORPHIC TEST DEVICE
BASE COORD	BASE COORDINATE SYSTEM
C/L	CENTERLINE
CAR COORD	CAR COORDINATE SYSTEM
CCW	COUNTER CLOCKWISE
CORR-IN	SEPARATION IN INCHES (MINUS INITIAL LENGTH)
CORR-MM	SEPARATION IN MM (MINUS INITIAL LENGTH)
CORR-F	CORRECTED (ZEROED) PITCH
CORR-R	CORRECTED (ZEROED) ROLL
CORR-Y	CORRECTED (ZEROED) YAW
CM	CLOCKWISE
EFI	ELECTRONIC FUEL INJECTOR
ENG	ENGINE
ENOPY	ENGINE PITCH AND YAW
FESH	FRONT END SHEET METAL
FIDUCIAL	REFERENCE POINT OR TARGET
FS	FRONT SILL TARGET
FWD	FORWARD
IP	INSTRUMENT PANEL TARGET
LBS	POUNDS
LFP,LOP	LEFT C-POST & QUARTER PANEL TARGETS
LFS,LMS,LRS	LEFT FRONT SILL, MID SILL, & REAR SILL TARGETS
LT	LEFT
MS	MID SILL TARGET
NORMALIZE	PUT ON A COMMON BASIS
NOSE-DOWN	LEADING END BELOW TRAILING
NOSE-UP	LEADING END ABOVE TRAILING
PERF	PERFORMANCE
REF	REFERENCE
REL	RELATIVE TO (ONE-DIMENSIONAL)
RCP,ROP	RIGHT C-POST & QUARTER PANEL TARGETS
RFS,RMS,RRS	RIGHT FRONT, MID, & REAR SILL TARGETS
ROLL-LEFT	LEFT SIDE LOWER THAN RIGHT
ROLL-RIGHT	RIGHT SIDE LOWER THAN LEFT
RS	REAR SILL TARGET
RT	RIGHT
SEP	SEPARATION OF (THREE-DIMENSIONAL)
SYS	SYSTEM
TBI	THROTTLE BODY INJECTOR
TIME,MS	TIME IN MILLISECONDS
U/B	UNDERBODY
VS	VERSUS
X	LONGITUDINAL AXIS (INCREASING TOWARD TRAILING EDGE)
XF	X-FILTERED
Y	LATERAL AXIS (INCREASING TO THE RIGHT)
YAW-LEFT	LEADING EDGE TO LEFT
YAW-RIGHT	LEADING EDGE TO RIGHT
Z	VERTICAL AXIS (INCREASING UPWARD)
ZEROED	SHIFTED TO START AT ZERO
ZERO-IN	ZEROED INCHES
ZERO-MM	ZEROED MILLIMETERS

IMPACT ANALYSIS
DEPARTMENT 5320
10/13/99 08:26
TEST VC07746

VC07746 30 MPH REAR MOVING BARRIER. KUT 74 ITEM KJ42S4R
 2002 MVSS 301 REAR IMPACT DEVELOPMENT.

ZEROED X MOTION OF F3 REL TO LFS IN BASE COORD SYS
 VERSUS TIME IN MILLISECONDS

REAR DYNAMIC CRUSH AND REAR WHEEL MOTION ANALYSIS



IMPACT ANALYSIS
 DEPARTMENT 5320
 10/13/99 08:20
 TEST VC07746

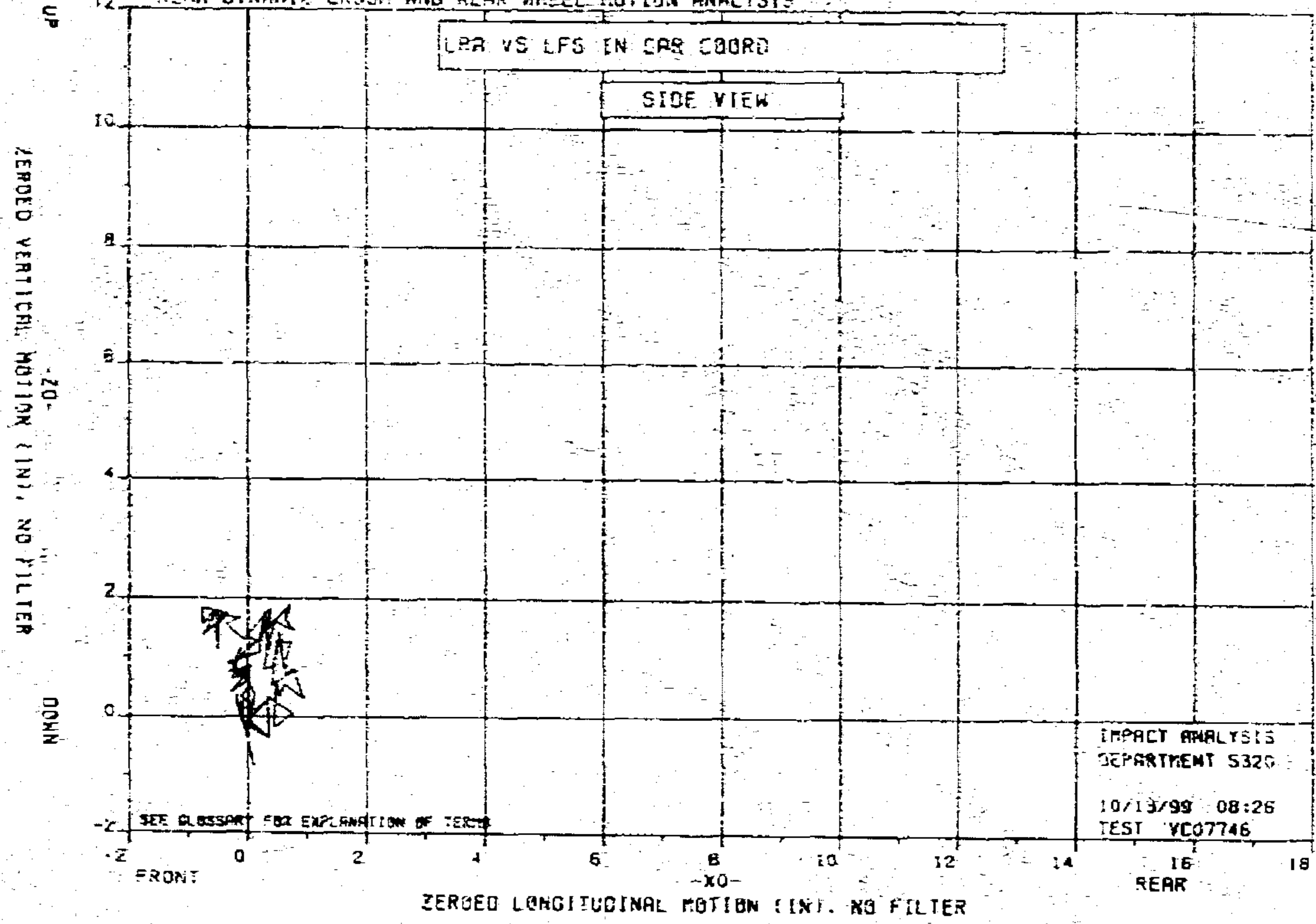
SEE GLOSSARY FOR EXPLANATION OF TERMS

FIGURE 1
 ZEROED LONGITUDINAL MOTION
 X-1 IN

VC07746 30 MPH REAR MOVING BARRIER, KJT-74 ITEM KJ4254R
2002 MYSS 301 REAR IMPACT DEVELOPMENT.

ZERGED Z OF LRA RELATIVE TO LFS IN CAR COORD
VERSUS ZERGED X OF LRA RELATIVE TO LFS IN CAR COORD

REAR DYNAMIC CRUSH AND REAR WHEEL MOTION ANALYSIS



ZERGED VERTICAL MOTION (IN), NO FILTER

UP

DOWN

FRONT

REAR

ZERGED LONGITUDINAL MOTION (IN), NO FILTER

IMPACT ANALYSIS
DEPARTMENT 5320
10/13/99 08:26
TEST VC07746

SEE GLOSSARY FOR EXPLANATION OF TERMS

-XO-

VC07746 20 MPH REAR MOVING BARRIER, KJF-74 ITEM KJ4264R
2002 MVSS 301 REAR IMPACT DEVELOPMENT.

ZERBED PITCH OF LMS TO LFS IN BASE COORD SYSTEM
VERSUS TIME IN MILLISECONDS

REAR DYNAMIC CRUSH AND REAR WHEEL MOTION ANALYSIS

NOSE-UP
DEGREES °CH AROUND Y RELATIVE TO X (RT SIDE VIEW) 50HZ FILTER
CHAMP
NOSE-DOWN

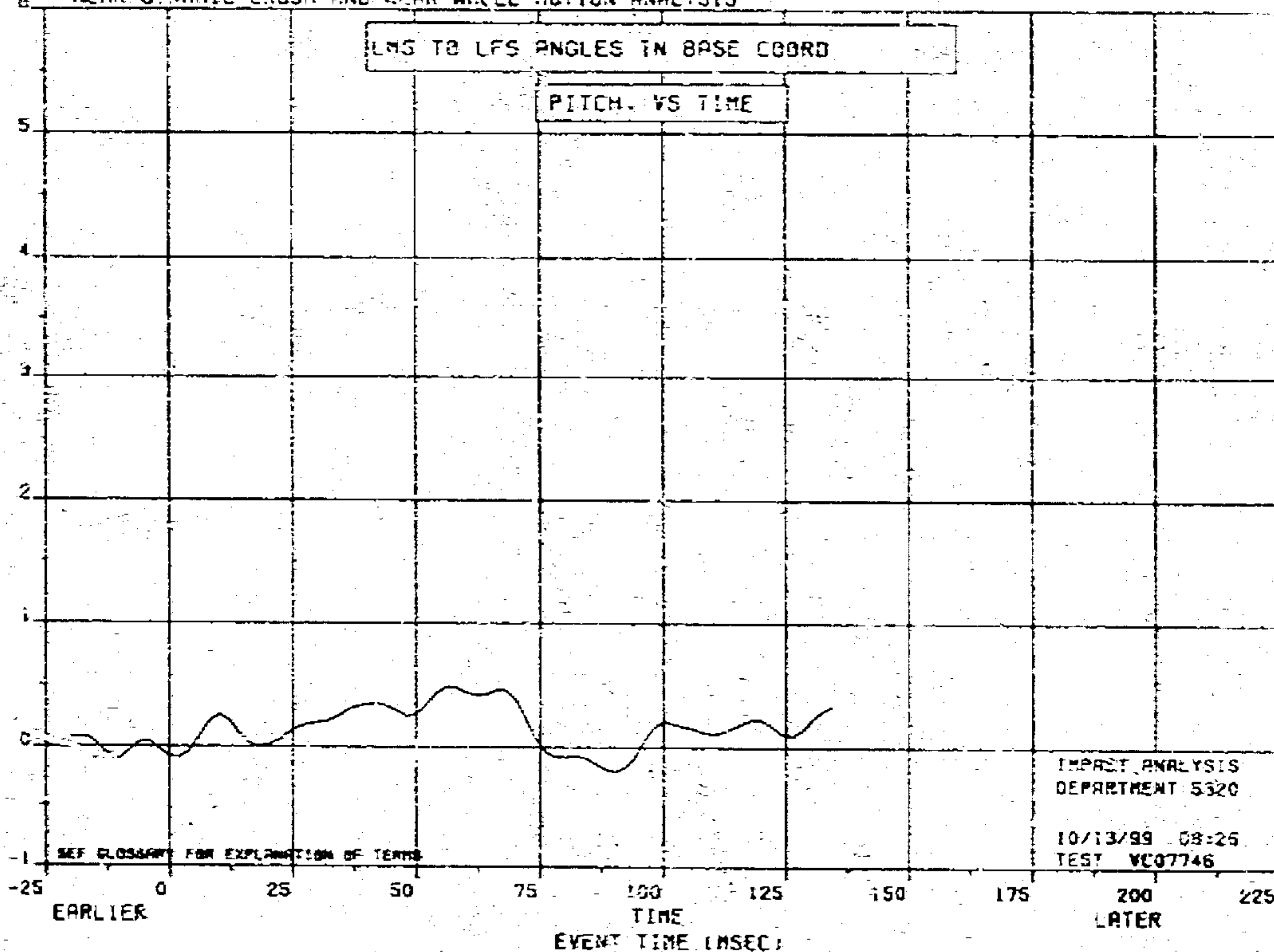


FIGURE 3

VC07746 30 MPH REAR MOVING BARRIER. NHT-74 ITEM KJ4254R
 2002 MVSS 301 REAR IMPACT DEVELOPMENT.

LMS - LFS DISTANCE -24.09 INCHES (INITIAL DIST) : IN
 VERSUS TIME IN MILLISECOND

REAR DYNAMIC CRUSH AND REAR WHEEL MOTION ANALYSIS

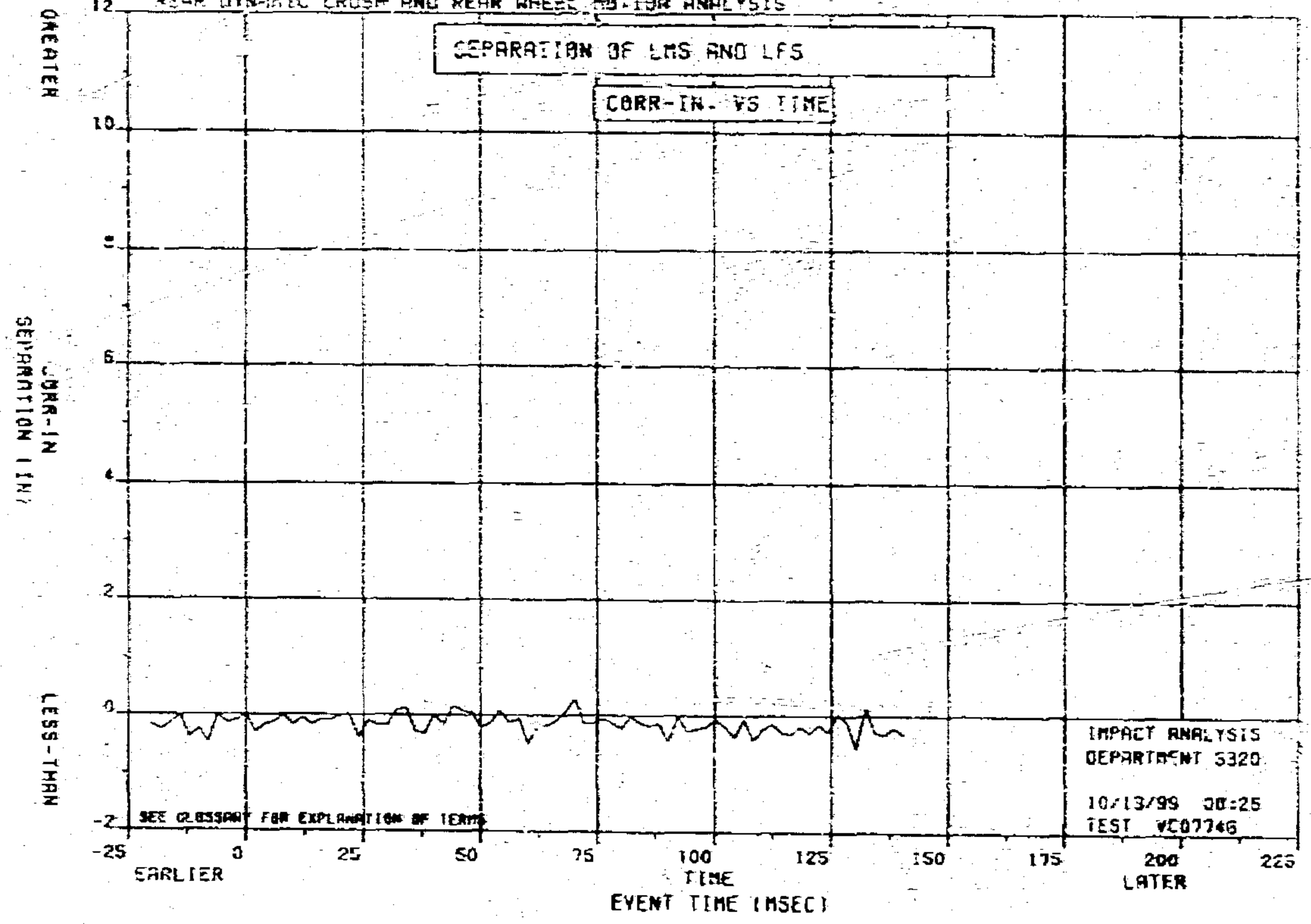


FIGURE 4

INTER COMPANY CORRESPONDENCE

DATE 10/13/99

TO
DISTRIBUTION

FROM
M. E. CREPS

DEPARTMENT
5320

PLANT/OFFICE
CTC

CMS NUMBER
481-00-27

SUBJECT:

REAR UNDERBODY MOTION ANALYSIS
VC07746 30 MPH REAR MOVING BARRIER, KJ7-74 ITEM KJ4264R
2002 MYSS 301 REAR IMPACT DEVELOPMENT
TEST DATE 08/27/99

TEST PURPOSE

PRIMARY, 2002 USA 301 DEVELOPMENT,
DETERMINE FUEL SYSTEM INTEGRITY.

IMPACT TYPE

TARGET SPEED: 30.1 MPH
DAMAGE LOCATION: REAR
BARRIER TYPE: REAR TYPE V
BARRIER SURFACE: PLYWOOD

VEHICLE

BODY CLASS: KJ
CAR LINE: J
BODY: 74
ENGINE: 2.4 LITRE
ENGINE NOTE: ELECTRONIC FUEL INJECTION
TRANSMISSION: 5 SPEED MANUAL
TRANS. NOTE:
VIN AS TESTED: 1JF4T58112A [REDACTED] M00.
VIN AS BUILT: 1JF4T58112A [REDACTED] M00.

TEST SPEED

30.3 TRAP

TEST WEIGHT (LBS)

4040 (TOTAL, 1920 FRONT, 2120 REAR)

OCCUPANTS

LEFT FRONT, HYBRID II BALLAST, RD-46
RESTRAINT-BELTS ONLY.
RIGHT FRONT, HYBRID II BALLAST, RD-61
RESTRAINT-BELTS ONLY.

BUILD CONDITION

TARGET WEIGHT (LBS) 3415 TOTAL, 1735 FRONT, 1600 REAR REP. BASE WT.
2.4L 2X4 VEHICLE (CHART DATE 3/17/99) W/OUT
LUGGAGE OR OCCUPANTS,
FUEL AND BALLAST 17 GALLONS OF STANDARD SOLVENT,
300 LBS.
50 IN REAR

THE RELATIVE MOTIONS OF SELECTED REAR UNDERBODY TARGETS HAVE BEEN
DETERMINED BY FILM ANALYSIS. TIME WAS BASED ON CAMERA TIMING DATA.

S.A. Helquist
S. A. HELOQUIST

Mark Creps
M. E. CREPS

GRAPHS - 23

G L O S S A R Y O F T E R M S

U S E D I N S T A N D A R D R E P O R T S

AD	ANTHROPOMETRIC DEVICE
AD	ANTHROPOMETRIC TEST DEVICE
ADSE COORD	ADSE COORDINATE SYSTEM
ADSE COORD	CENTER LINE
ADSE COORD	FOR COORDINATE SYSTEM
ADSE	COUNTER CLOCKWISE
ADSE IN	SEPARATION IN INCHES (MINUS INITIAL LENGTH)
ADSE-AM	SEPARATION IN MM (MINUS INITIAL LENGTH)
ADSE-P	CORRECTED (ZEROED) PITCH
ADSE-R	CORRECTED (ZEROED) ROLL
ADSE-Y	CORRECTED (ZEROED) YAW
ADSE	CLOCKWISE
AEI	ELECTRONIC PULSE INDICATOR
ENG	ENGINE
ENOPY	ENGINE PITCH AND YAW
ENOM	FRONT END SLOPE PITCH
ENODIAL	REFERENCE POINT OF TARGET
ENOD	FRONT SIDE TARGET
ENOD	FORWARD
ENOD	INSTRUMENT PANEL TARGET
ENOD	POUNCE
ENOD	LEFT C POST & QUARTER PANEL TARGETS
ENOD	LEFT FRONT SIDE, MID SIDE, & REAR SIDE TARGETS
ENOD	CELL
ENOD	MID SIDE TARGET
ENOD	PUT ON A COMMON PASTE
ENOD	LEADING SIDE (OR TRAILING)
ENOD	LEADING AND REAR TRAILING
ENOD	PERFORMANCE
ENOD	REFERENCE
ENOD	RELATIVE TO ONE-DIMENSIONAL
ENOD	RIGHT C POST & QUARTER PANEL TARGETS
ENOD	RIGHT FRONT, MID, & REAR SIDE TARGETS
ENOD	LEFT SIDE LOWER THAN RIGHT
ENOD	RIGHT SIDE LOWER THAN LEFT
ENOD	REAR SIDE TARGET
ENOD	RIGHT
ENOD	SEPARATION OF THREE-DIMENSIONAL
ENOD	SYSTEM
ENOD	SHOOTING GUN INDICATOR
ENOD	TIME IN MILLISECONDS
ENOD	UNDERBODY
ENOD	VELOCITY
ENOD	LONGITUDINAL AXIS INCREASING TOWARD TRAILING EDGE
ENOD	X-AXIS
ENOD	LONGITUDINAL AXIS INCREASING TO THE RIGHT
ENOD	LEADING EDGE TO LEFT
ENOD	LEADING EDGE TO RIGHT
ENOD	VERTICAL AXIS INCREASING UPWARD
ENOD	SWITCH TO START AT ZERO
ENOD	ZEROED INCHES
ENOD	ZEROED MILLIMETERS

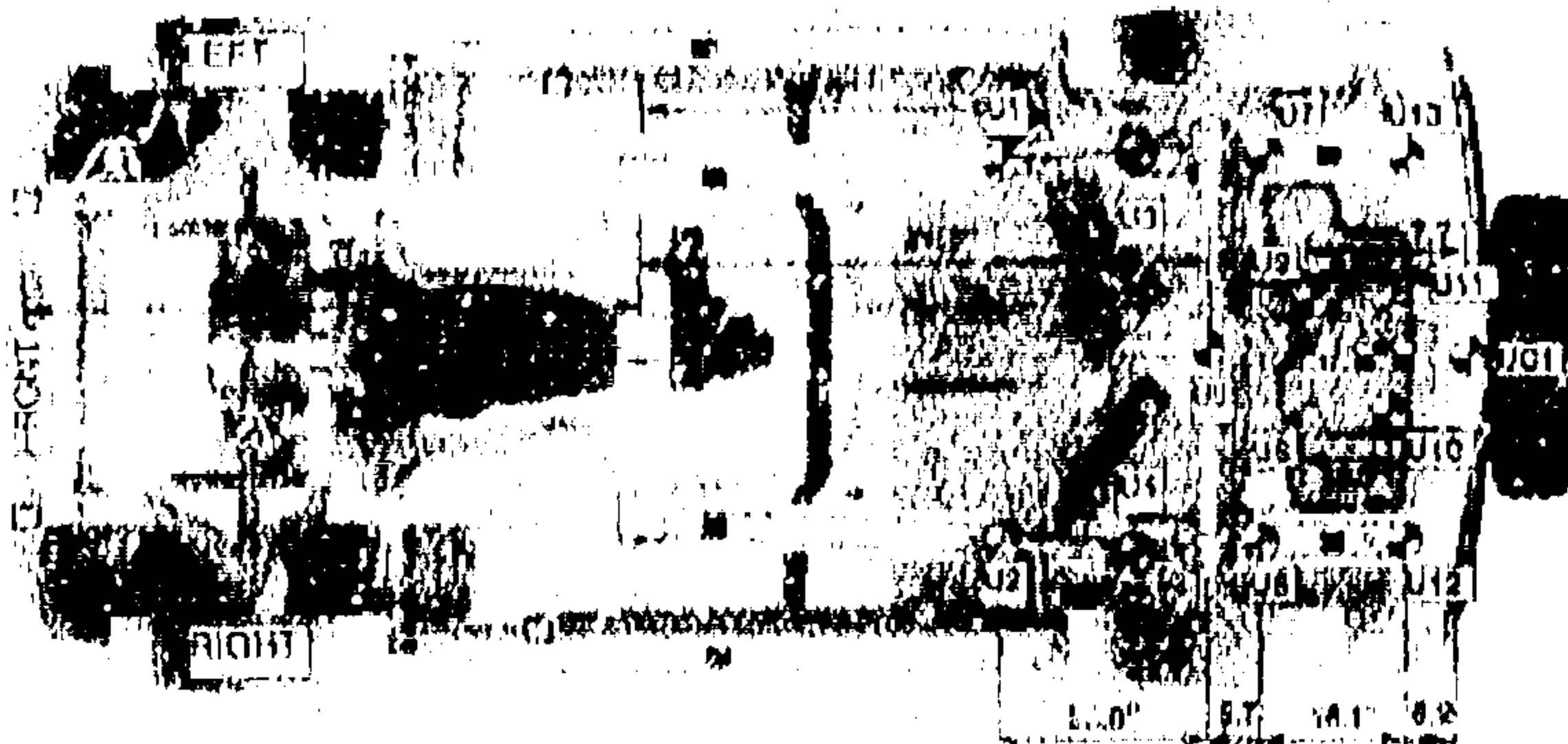
IMPACT ANALYSIS
DEPARTMENT 5020

VC07746 30 MPH REAR MOVING BARRIER, KJT-74 ITEM KJ4284X 2002 MVSS 301 REAR IMPACT DEVELOPMENT

Third Party Item

Jeep Cherokee 4.4 KJ

Target and Accelerometer Locations
For Rear Impact



- U Underbody
- V Side View
- 1 Single Axis (K) Accelerometer
- 2 Dual (X & Z) Accelerometer

TARGET NAME

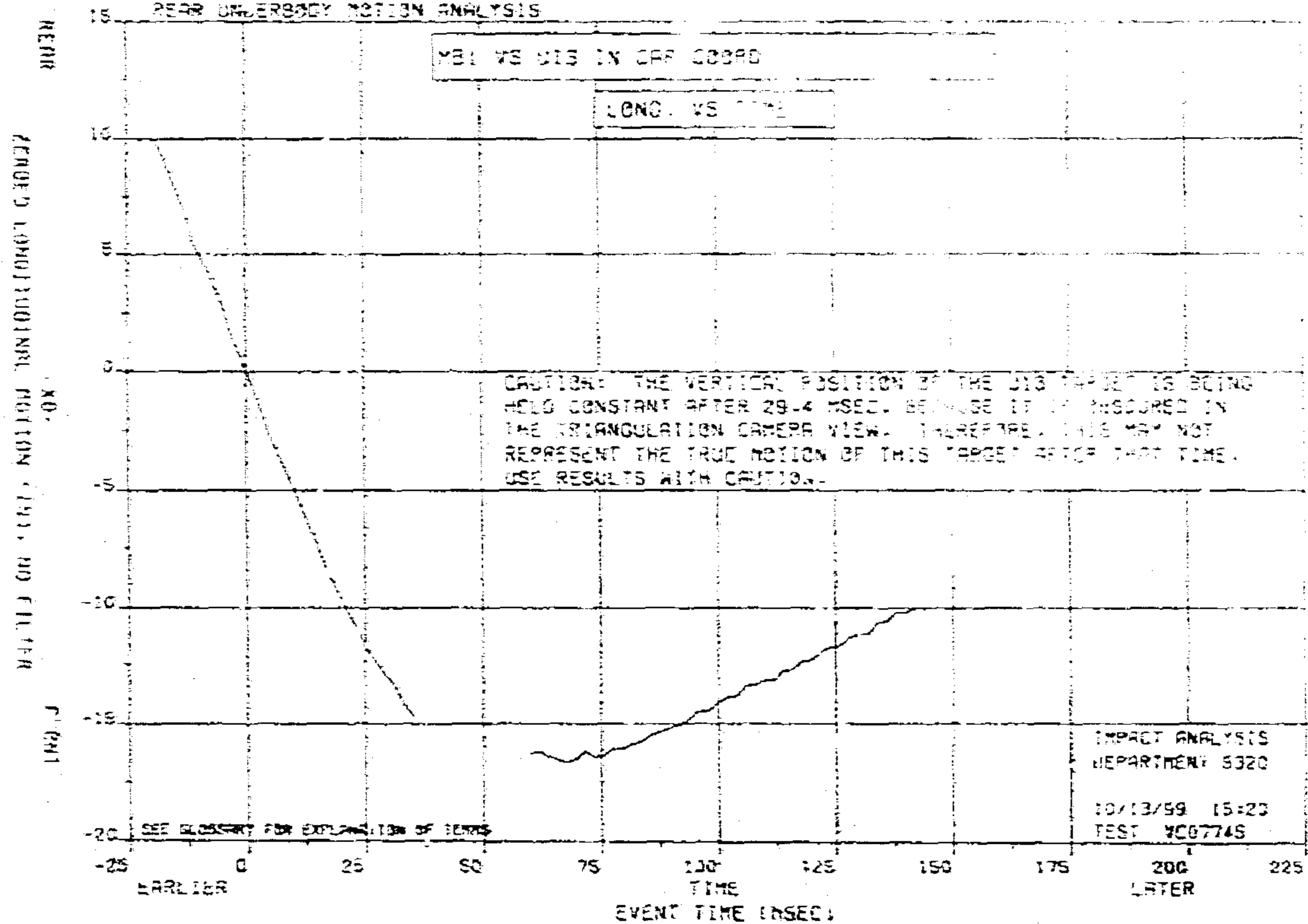
TARGET DESCRIPTION

U01	CENTER TARGET, REAR BUMPER CROSSMEMBER
U1	LEFT FOREMOST RAIL TARGET
U2	RIGHT FOREMOST RAIL TARGET
U3	LEFT REAR SUSPENSION TARGET (PLACED DIFFERENTLY THAN OTHER TESTS)
U4	RIGHT REAR SUSPENSION TARGET (PLACED DIFFERENTLY THAN OTHER TESTS)
U5	REAR DIFFERENTIAL TARGET
U6	RIGHT RAIL TARGET -RWD OF AXLE
U7	LEFT RAIL TARGET -RWD OF AXLE
U8	RIGHT FRONT CORNER FUEL TANK TARGET
U9	LEFT FRONT CORNER FUEL TANK TARGET
U10	RIGHT AFT FUEL TANK TARGET
U11	LEFT AFT FUEL TANK TARGET
U12	RIGHT AFTMOST RAIL TARGET -NEAR REAR RIGHT CORNER FUEL TANK
U13	LEFT AFTMOST RAIL TARGET - NEAR REAR LEFT CORNER FUEL TANK

IMPACT ANALYSIS
DEPARTMENT 6320
10/10/1999
TEST VC07746 IJBR

PHOTOGRAPH OF THE REAR MOVING BARRIER, 201-94 1151 2048548
 FROM THE 301 REAR IMPACT DEVELOPMENT.

REAR UNDERBODY MOTION ANALYSIS
 REAR UNDERBODY MOTION ANALYSIS



013 45 00 IN ORP COORD
LONG. 45 TIME

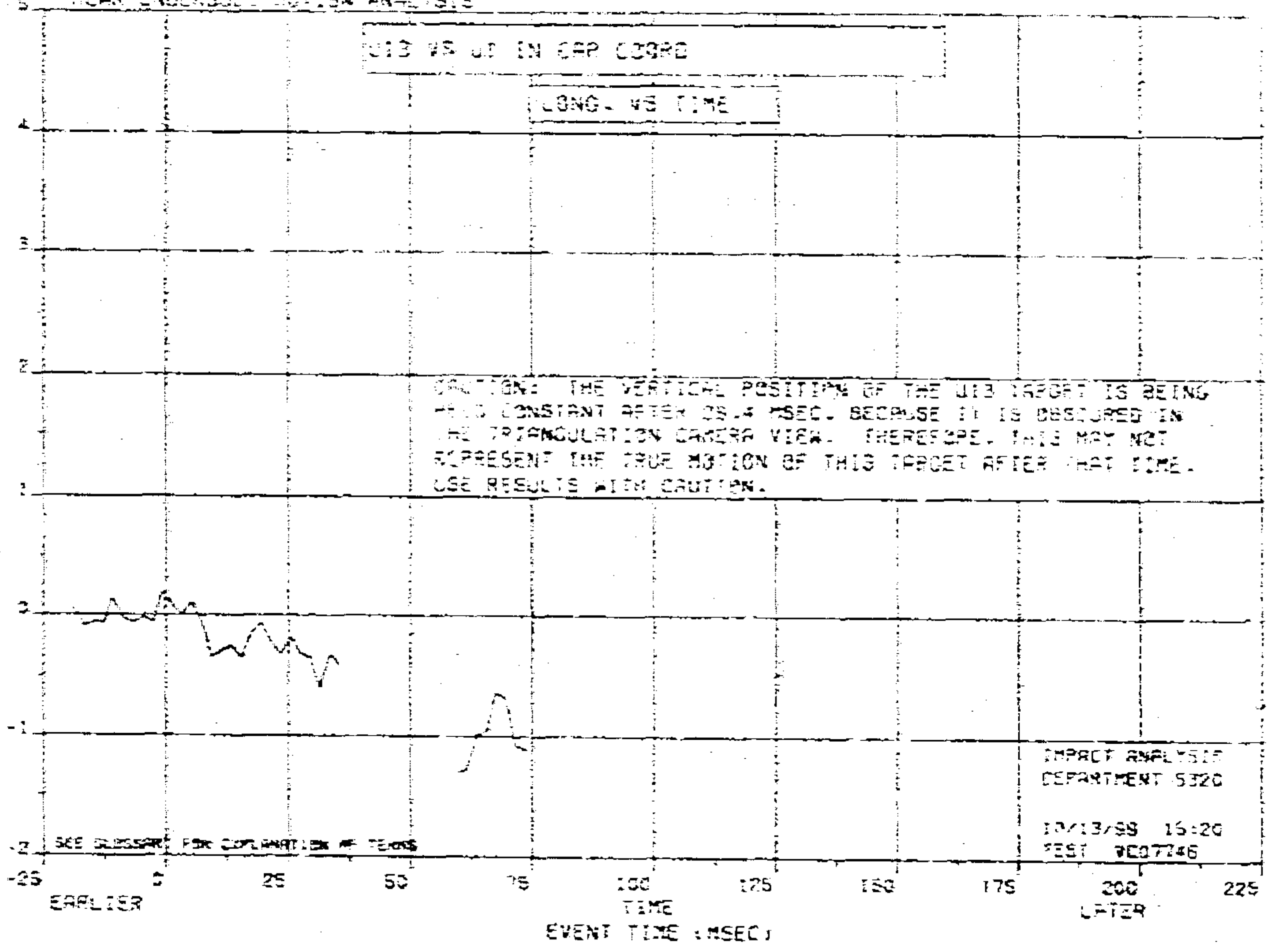
013 45 00 IN ORP COORD

013 45 00 IN ORP COORD

013 45 00 IN ORP COORD

LONG. 45 TIME

CAUTION: THE VERTICAL POSITION OF THE URB TARGET IS BEING HELD CONSTANT AFTER 25.4 MSEC. BECAUSE IT IS OBSERVED IN THE TRIANGULATION CAMERA VIEW. THEREFORE, THIS MAY NOT REPRESENT THE TRUE MOTION OF THIS TARGET AFTER THAT TIME. USE RESULTS WITH CAUTION.



REAR
X0
FRONT

IMPACT ANALYSIS
DEPARTMENT 5320
10/13/88 15:20
TEST 7E07746

SEE INSTRUCTIONS FOR COORDINATION OF TESTS

21 NOV 88

IMPACT ANALYSIS DEPARTMENT 5320
TEST VC07746

IMPACT ANALYSIS DEPARTMENT 5320
TEST VC07746

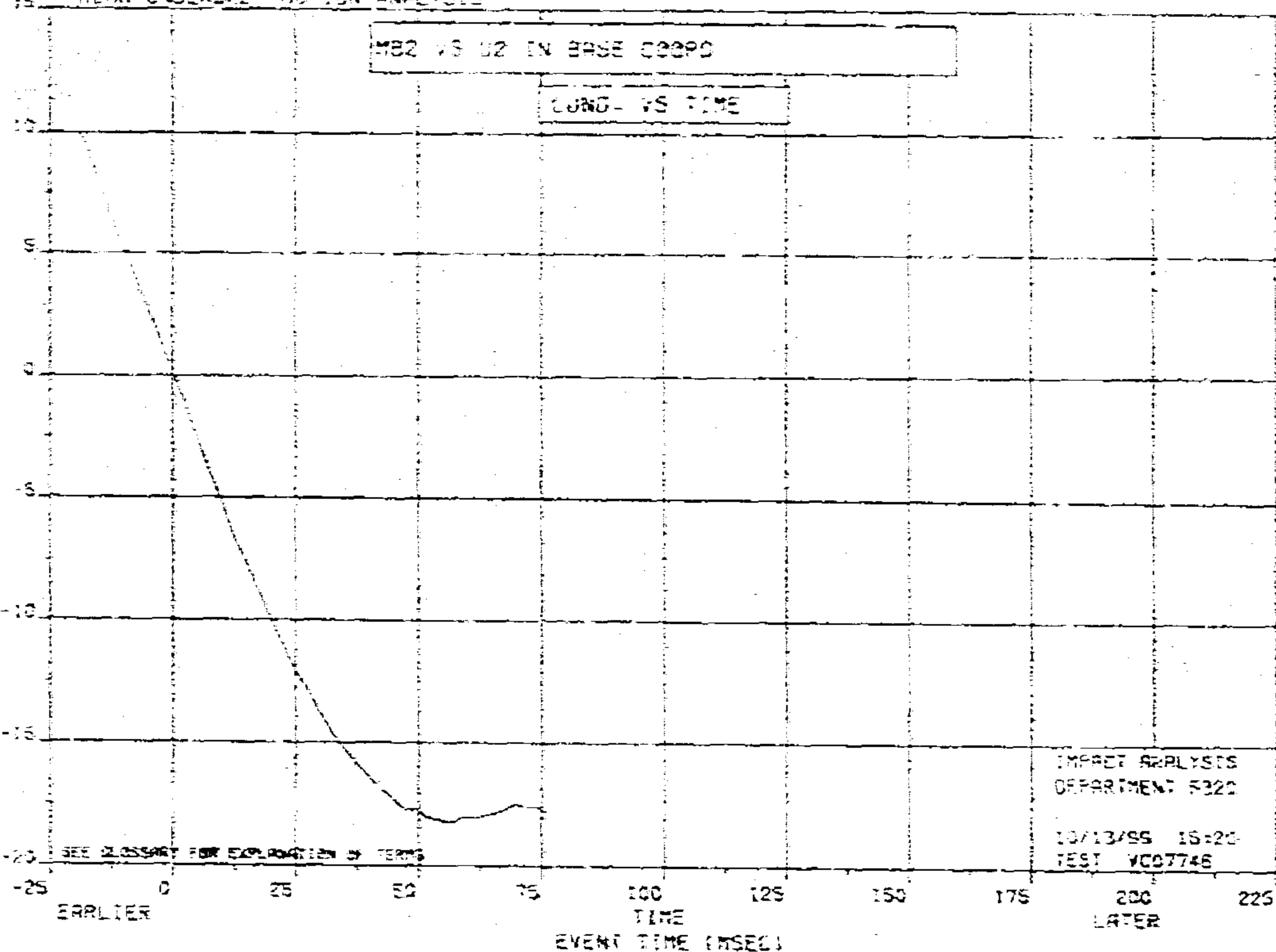
IMPACT ANALYSIS DEPARTMENT 5320
TEST VC07746

REAR

REAR POSITION (IN) NO FILTER

-X0-

FRONT

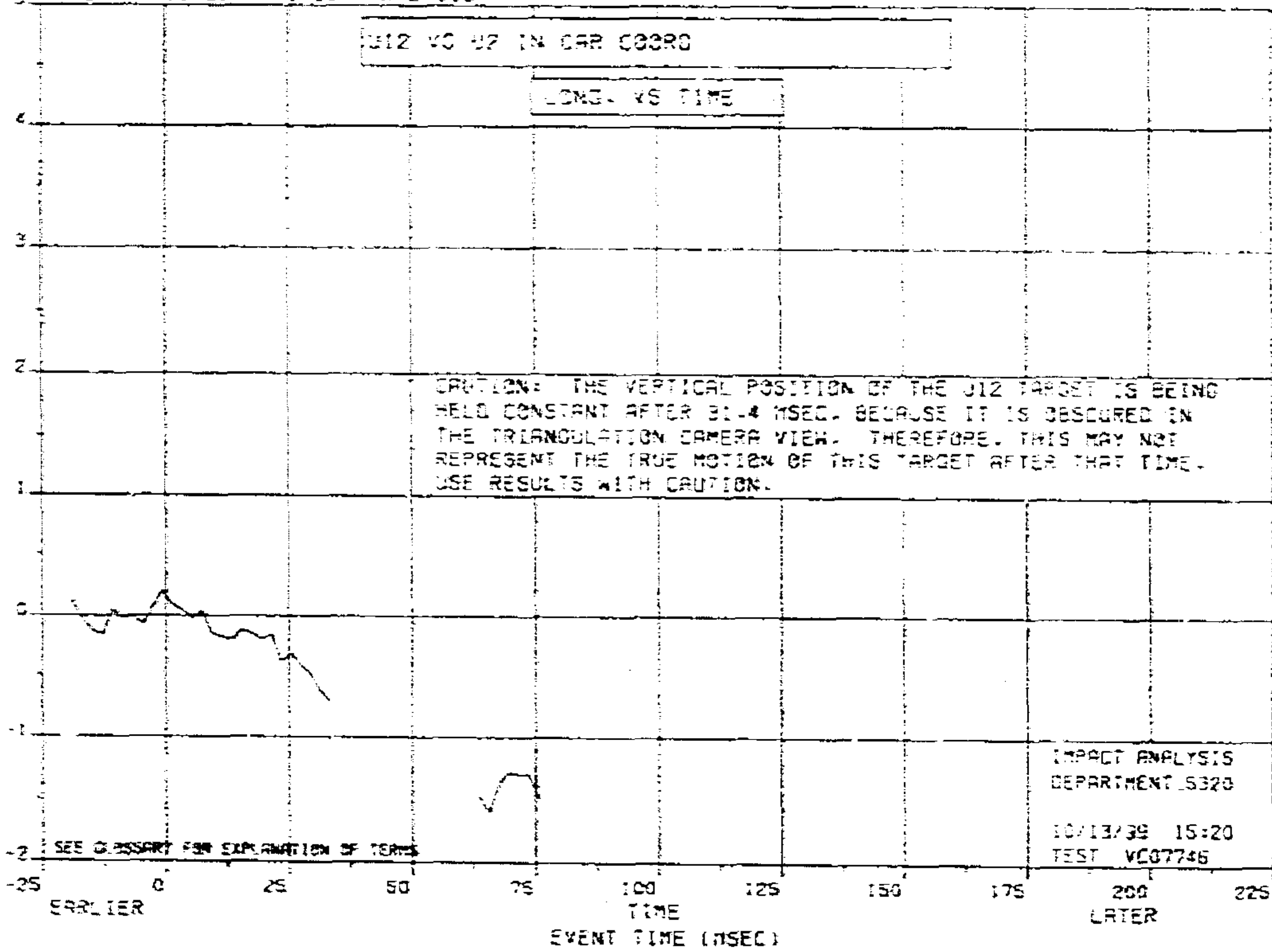


VC07746 00 MPH REAR MOVING BARRIER, AUT-74 ITEM #04264F
 2002 0405 001 REAR IMPACT DEVELOPMENT

TARGET X OF U12 RELATIVE TO 00 IN CAR 00000
 VERSUS TIME IN MILLISECONDS

REAR UNDERBODY MOTION ANALYSIS

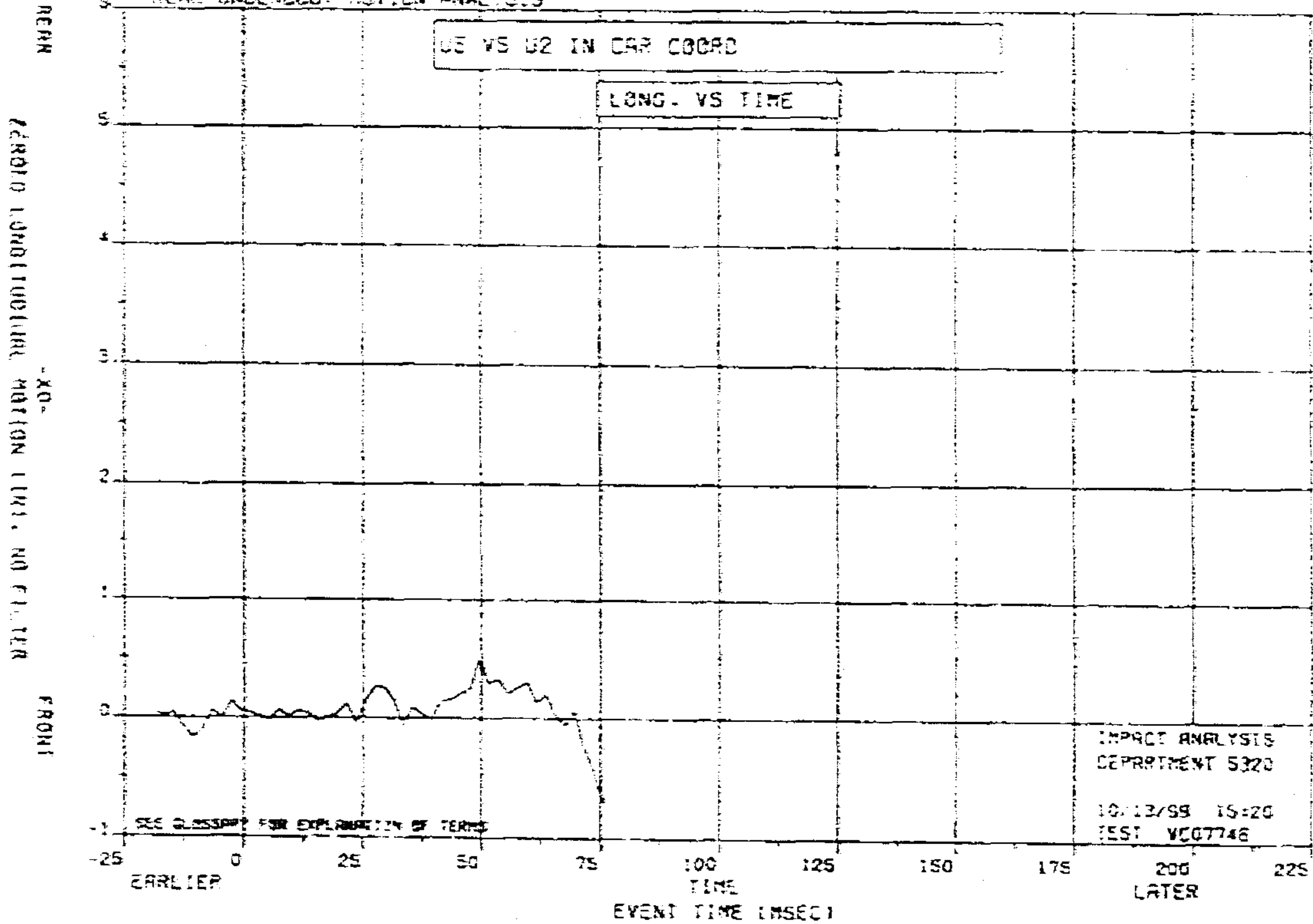
REAR
 ZEROED UNDERBODY MOTION (IN) NO FILTER
 FRONT



VC07746 30 MPH REAR MOVING BARRIER, NOT-74 ITEM NUMBER
2002 INCS 501 REAR IMPACT DEVELOPMENT.

REAR X AXIS VS TIME IN CAR COORD
X AXIS UNIT IN MILLISECOND

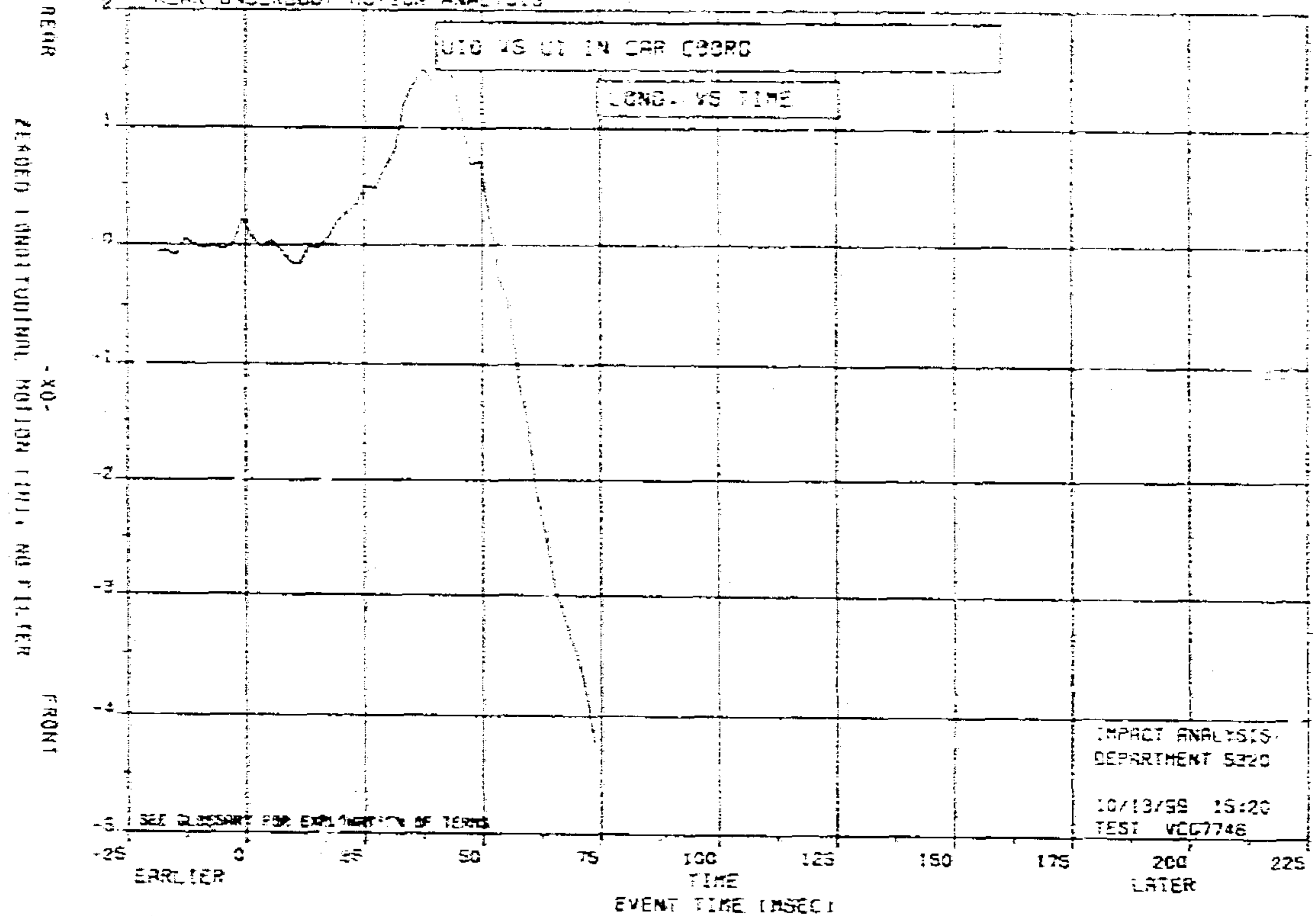
REAR UNDERBODY MOTION ANALYSIS



2002 MPH 30 MPH REAR MOVING BARRIER. BUT 24 MPH APPROX
 2002 MPH 30 MPH REAR IMPACT DEVELOPMENT.

ZEROED G OF G10 RELATIVE TO G1 IN CAR COORD
 VERSUS TIME IN MICROSECONDS

REAR UNDERBODY MOTION ANALYSIS

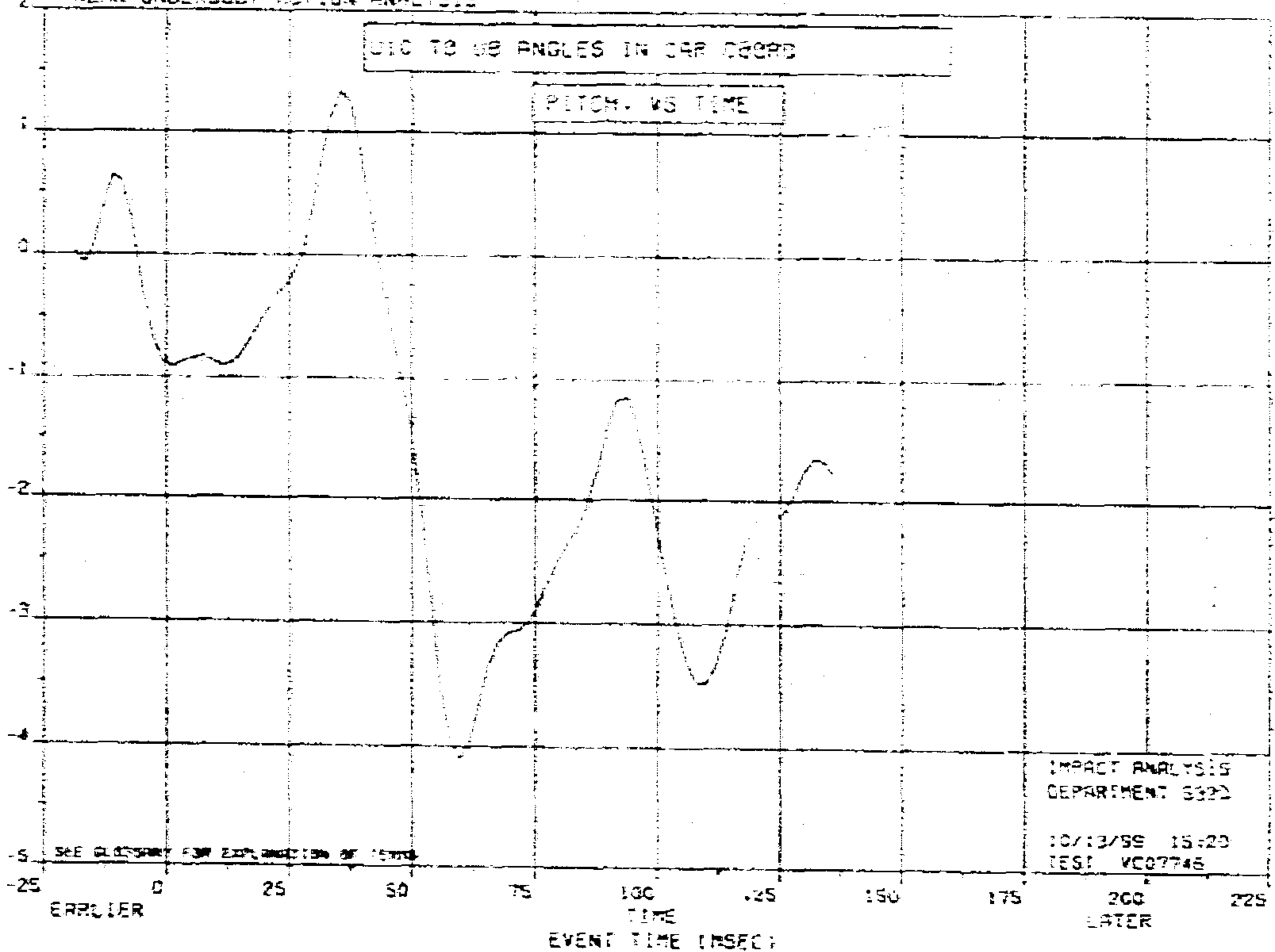


VC07746 30 MPH REAR MOVING BARRIER, 300-04 ITEM A142849
 3002 MASS 301 REAR IMPACT DEVELOPMENT.

DEGREE PITCH OF C10 TO US IN CAR COORD SYSTEM
 VERSUS TIME IN MILLISECONDS

REAR UNDERBODY MOTION ANALYSIS

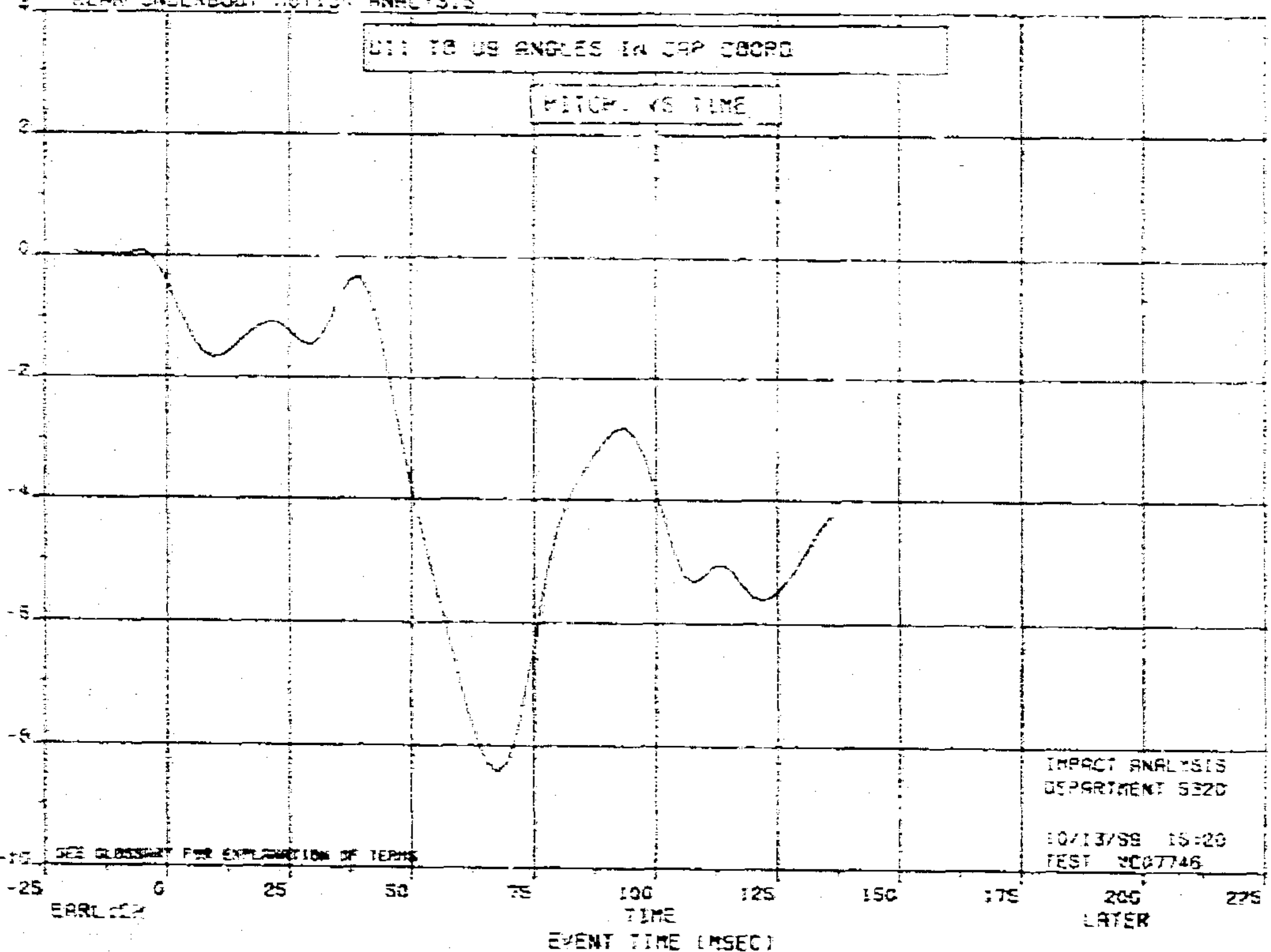
NOSE UP
 DEGREES CEN HROUND X RELATIVE TO X IRT SIDE VIEW I SQUZ FILTER
 CORR-P
 NOSE-DOWN



NOSE-UP DEGREES CM AROUND Y RELATIVE TO X IN 1 SIDE VIEW 1 SONG FILTER

IMPACT ANALYSIS DEPARTMENT 5320

10/13/88 15:20 TEST YC07746



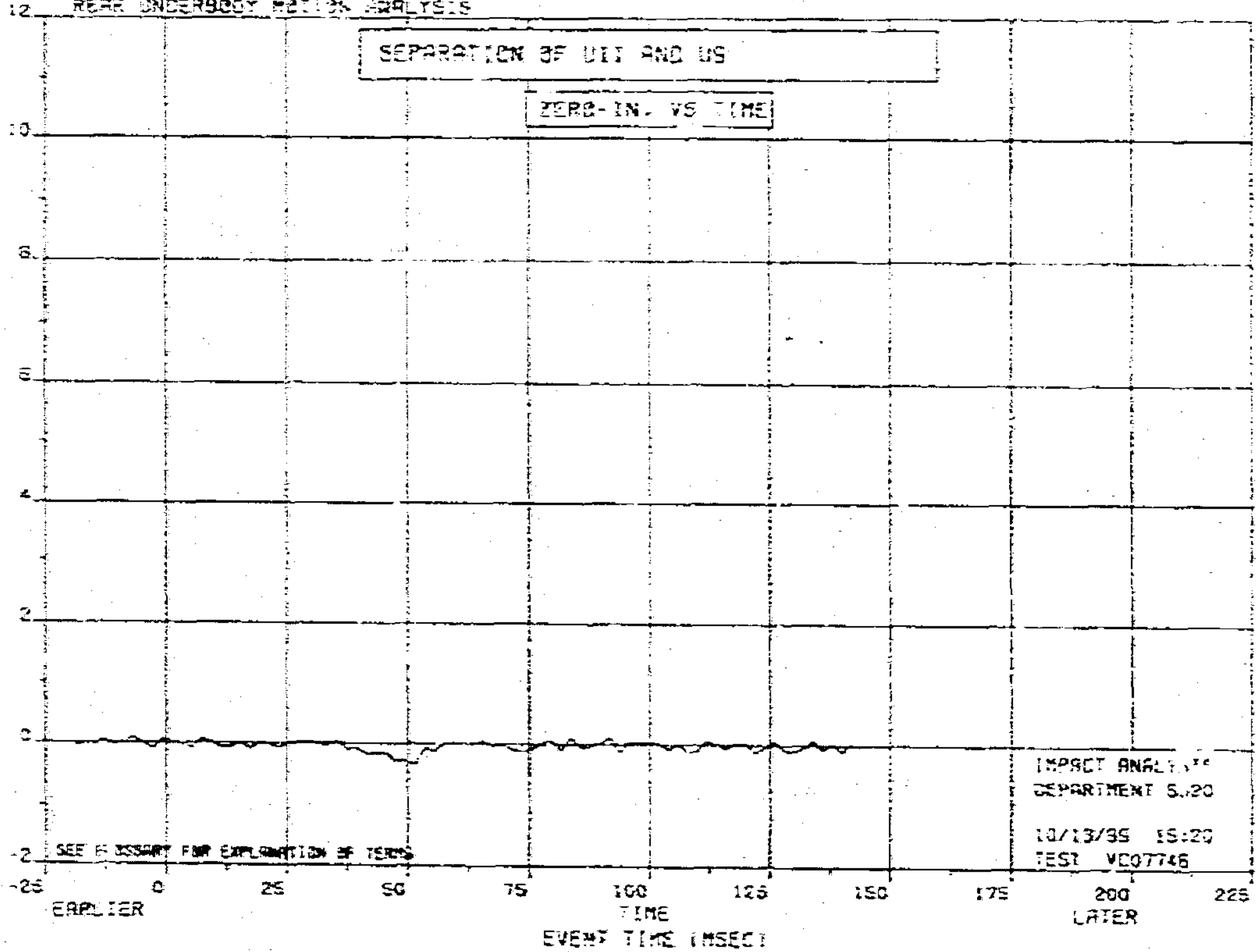
NOSE-UP DEGREES CM AROUND Y RELATIVE TO X IN 1 SIDE VIEW 1 SONG FILTER

VC00746 30 MPH REAR HAVING BARRIER, XBT-74 ITEM 004264R
2002 MASS 001 REAR IMPACT DEVELOPMENT

ZEROED SEPARATION OF U/I AND U/S LINE
VERSUS TIME IN MILLISECONDS

REAR UNDERBODY PITCH ANALYSIS

ORIENTED
ZERO-IN
SEPARATION (IN)
LEGS - THIN

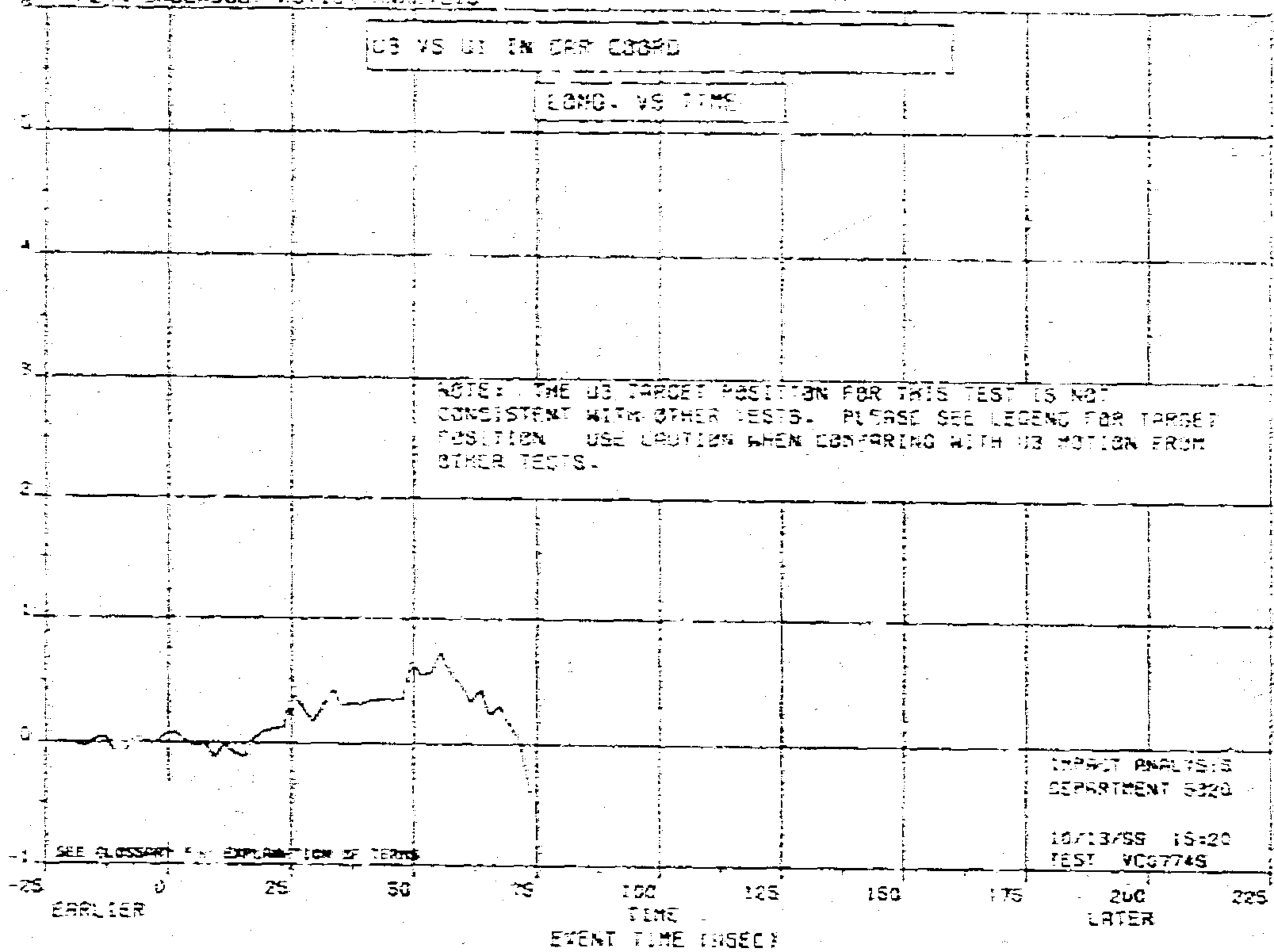


745 US AIR FORCE MOVING TARGET, 400-74 FROM AIRBORNE
 745 US AIR FORCE MOVING TARGET, 400-74 FROM AIRBORNE

US VS US IN CAR COORD
 VERSUS TIME IN SECONDS

REAR UNDERBODY MOTION ANALYSIS

REAR
 ZEROED LONGITUDINAL MOTION (IN), AND FILTER
 XO
 FRONT



4000745 30 MPH REAR MOVING OPERATOR, K01-04 ITEM R04254R
3002 MASS 301 REAR IMPACT DEVELOPMENT

ZERED Y OF UA RELATIVE TO 01 IN CAR COORD
VERSUS TIME IN MILLISECONDS

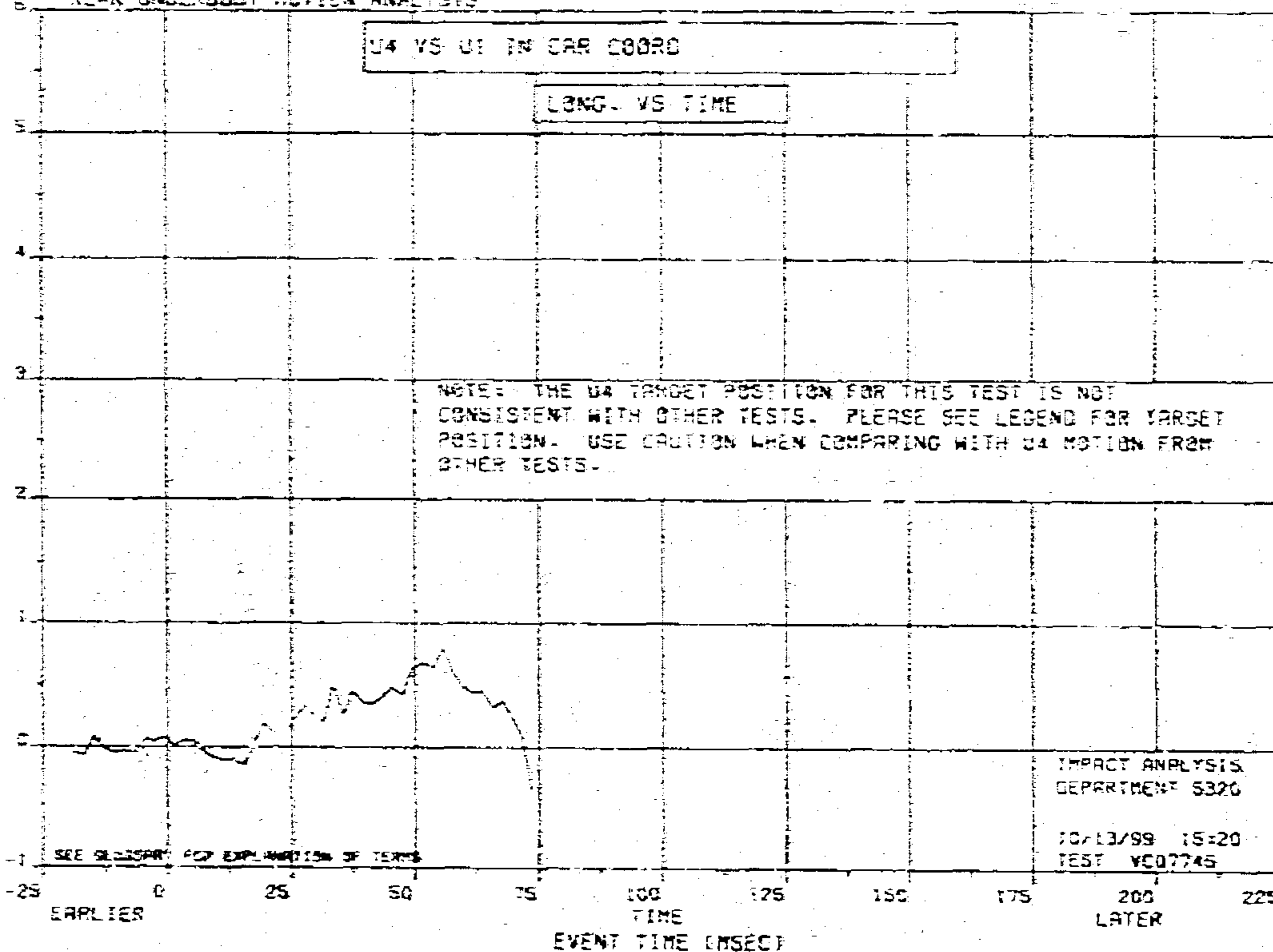
REAR UNDERBODY MOTION ANALYSIS

REAR

20000 LONGITUDINAL MOTION (IN) NO FILTER

X0

FRONT



U4 VS U1 IN CAR COORD

LONG. VS TIME

NOTE: THE U4 TARGET POSITION FOR THIS TEST IS NOT CONSISTENT WITH OTHER TESTS. PLEASE SEE LEGEND FOR TARGET POSITION. USE CAUTION WHEN COMPARING WITH U4 MOTION FROM OTHER TESTS.

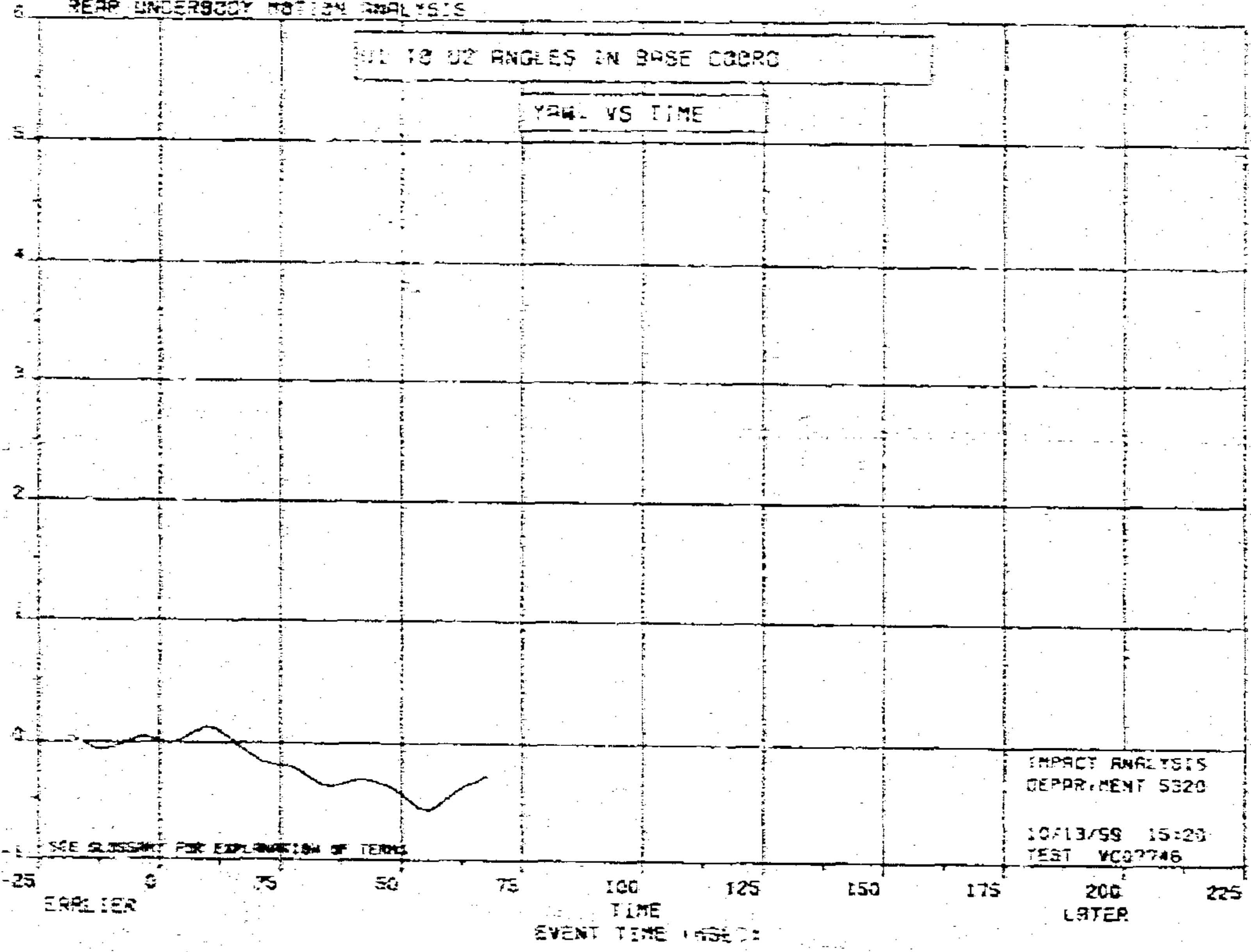
IMPACT ANALYSIS
DEPARTMENT 5320

10/13/99 15:20
TEST VC07745

SEE SENSOR FOR EXPLANATION OF TESTS

RECORDS FOR USE OF 01 TO 02 IN BASE COORD SYSTEM
VARIOUS TESTS IN MILLIACCORDS

REAR UNDERBODY TO BEAN ANALYSIS



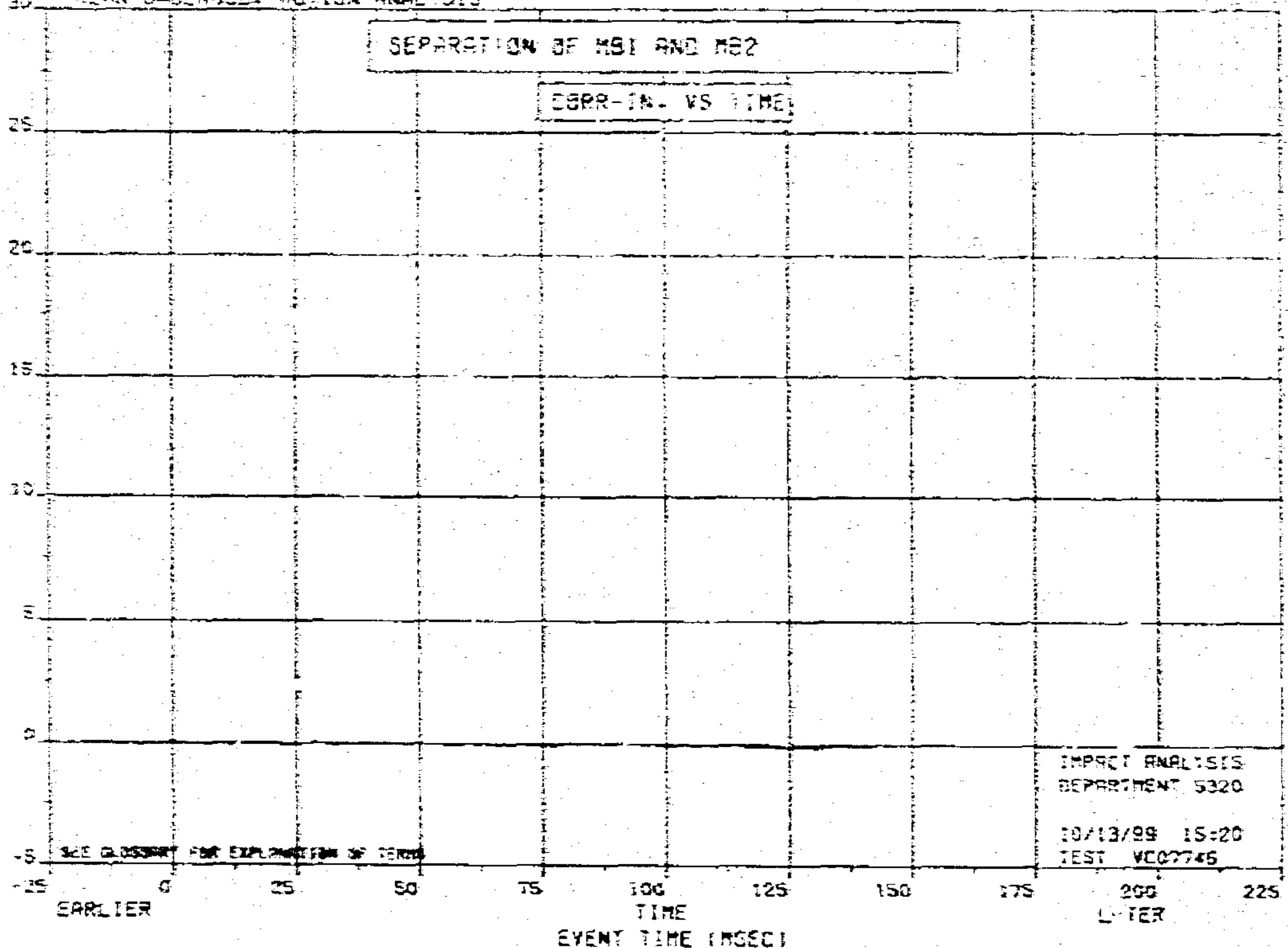
LEFT
RIGHT
UP
DOWN
FRONT
BACK
LEFT
RIGHT

VC07745 30 MPH REAR MOVING BARRIER. MUT-74 ITEM #14084R
 2002 MVSS 301 REAR IMPACT DEVELOPMENT.

M01 TO M02 DISTANCE - 27.88 INCHES INITIAL DISTANCE
 VERSUS TIME IN MILLISECONDS

REAR UNDERBODY MOTION ANALYSIS

GREATER
 SEPARATION (IN)
 CORP. IN
 LESS THAN



SEE GRAPH FOR EXPLANATION OF TERMS

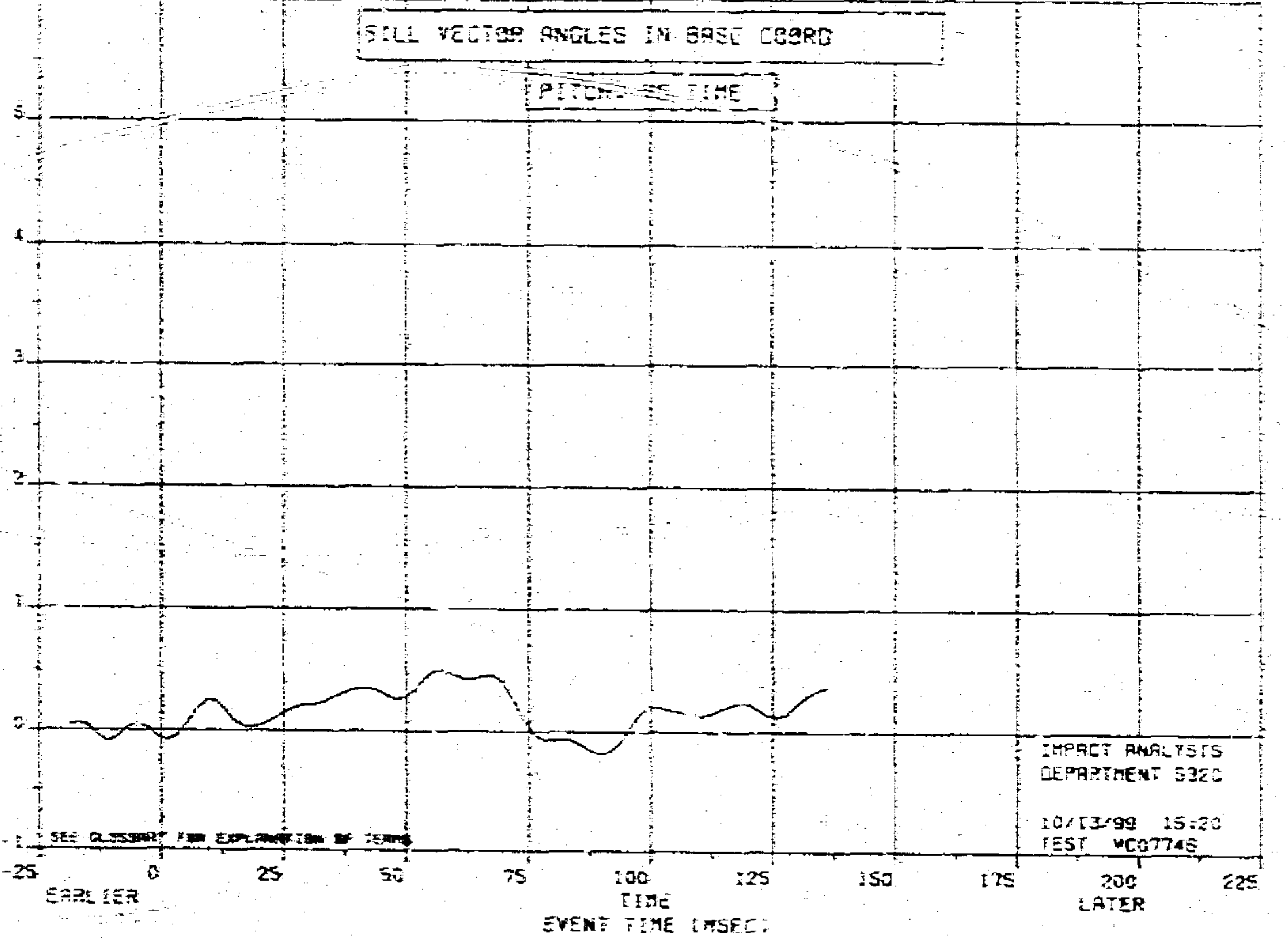
IMPACT ANALYSIS
 DEPARTMENT 5320

10/13/99 15:20
 TEST VC07745

REPORT OF THE REAR TESTING SHOWER, BUT-74 ITEM WJ4264R
 REAR REAR IMPACT DEVELOPMENT.

TENDED PITCH OF SILL VECTOR IN BASE COORD SYSTEM
 VERSUS TIME IN MILLISECOND

REAR UNDERBODY MOTION ANALYSIS



SILL VECTOR ANGLES IN BASE COORD

PITCH VS TIME

IMPACT ANALYSIS
 DEPARTMENT 9320

10/13/99 15:20
 TEST W00774E

SEE CLASSIFICATION EXPLANATION OF CENTER

NOSE-UP

DEGREES (CH AROUND Y RELATIVE TO X IRT SIDE VIEW) SOIL FILTER

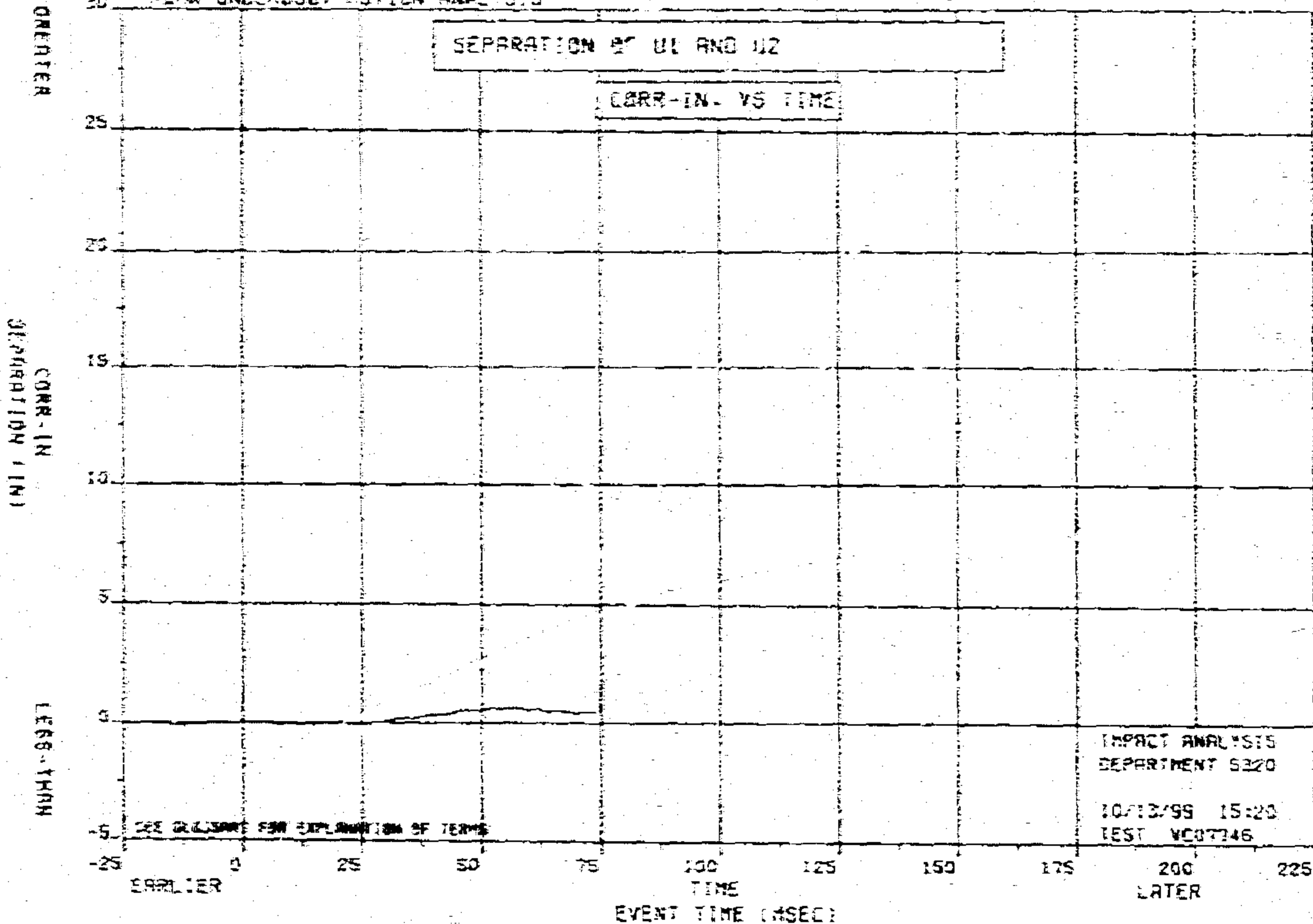
CORR-P

NOSE-DOWN

VC07746-30 MPH REAR MOVING BARRIER, AIT-14 ITEM KU4284R
2002 MYSS 301 REAR IMPACT DEVELOPMENT.

U1 TO U2 DISTANCE - 30.46 INCHES INITIAL DISTANCE
VERSUS TIME IN MILLISECONDS

REAR UNDERBODY MOTION ANALYSIS



•00746 30 MPH REAR MOVING BARRIER. NCT-74 ITEM NJ4284F
 2002 NYSS 301 REAR IMPACT DEVELOPMENT.

LFS TO LMS DISTANCE 124.08 INCHES MINUTUAL DIST. (IN)
 VERSUS TIME IN MILLISECONDS

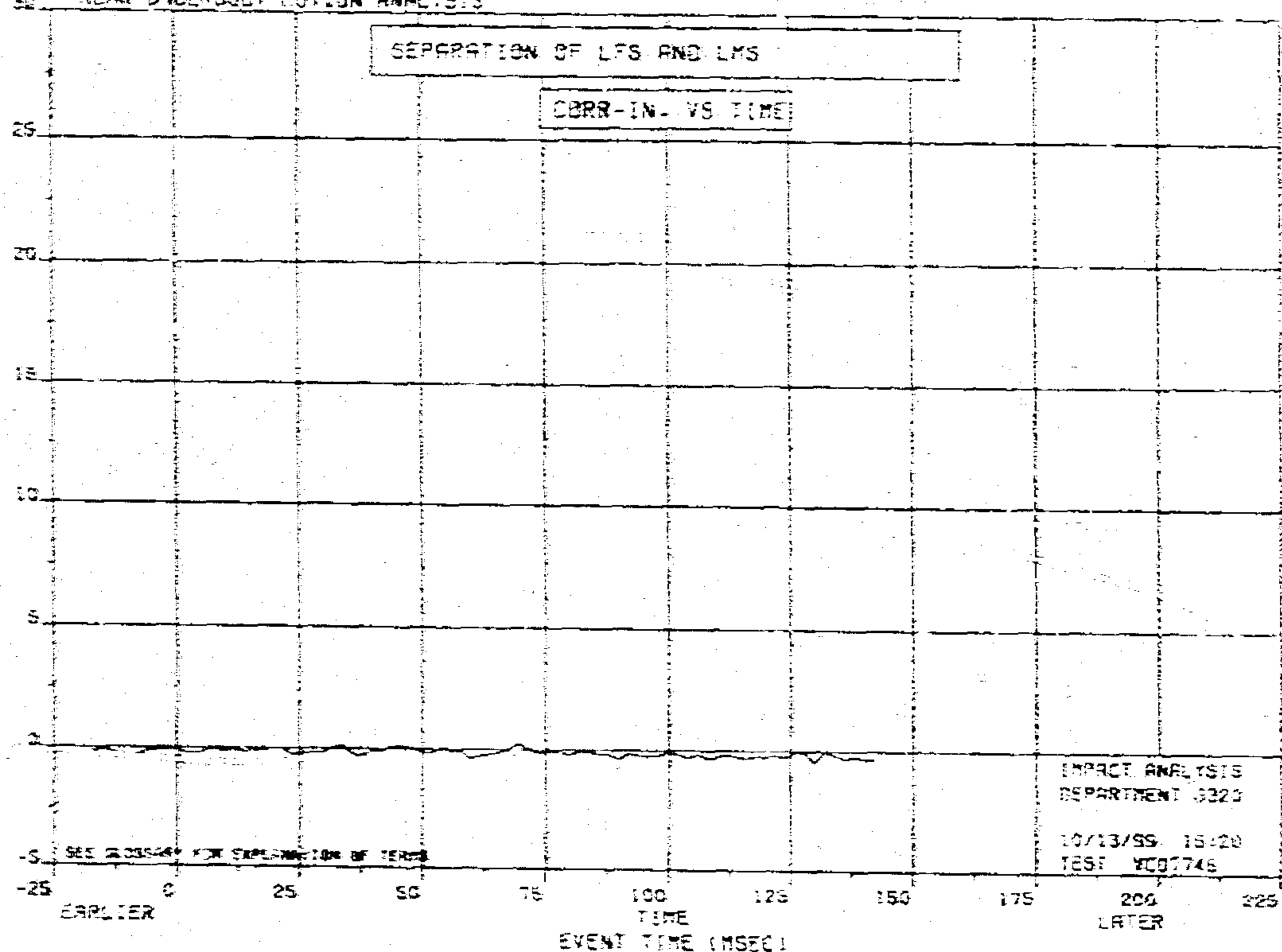
REAR UNDERBODY MOTION ANALYSIS

ORIENTATION

SEPARATION (IN)

CONN. IN

1.55 IN/HR



SEPARATION OF LFS AND LMS

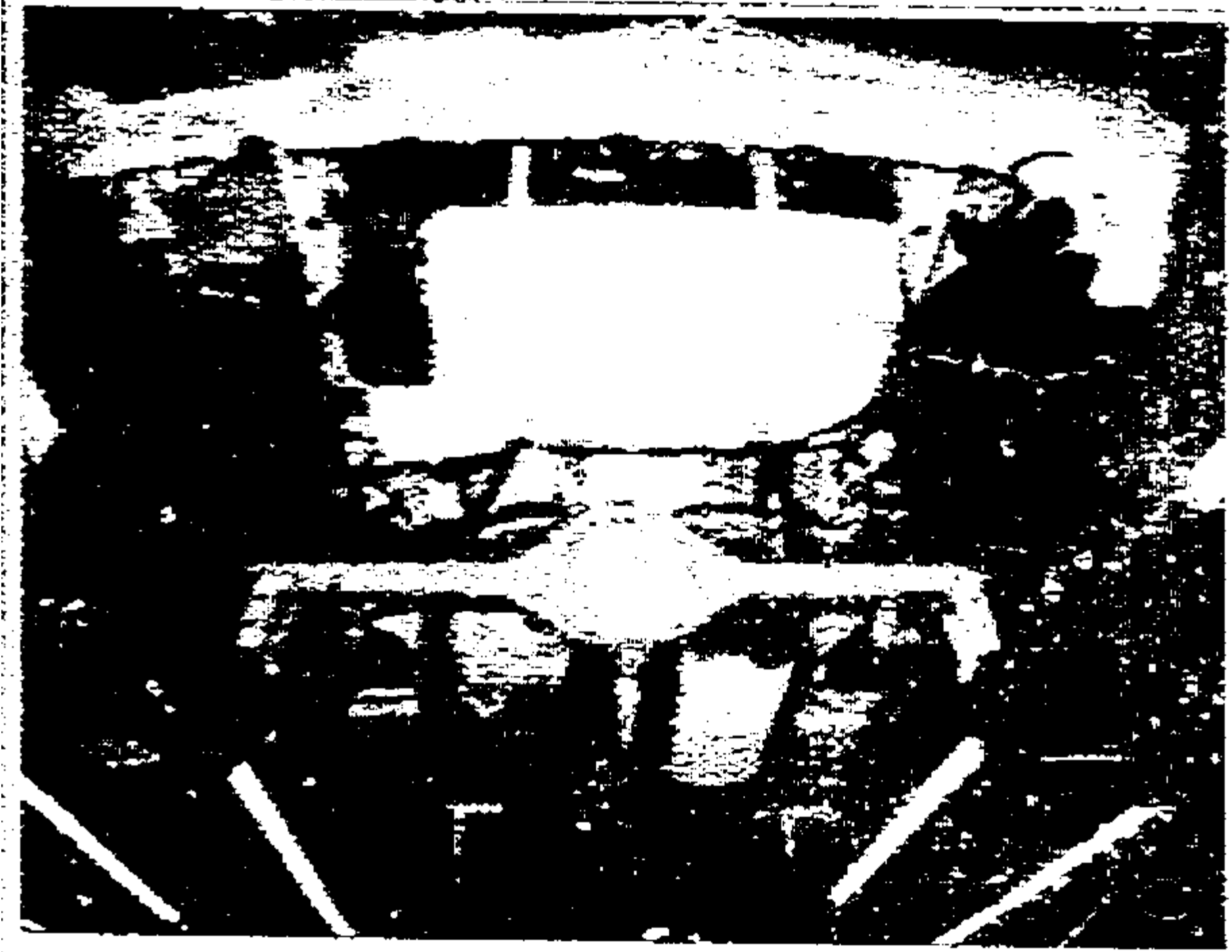
CRR-IN- VS TIME

IMPACT ANALYSIS
 DEPARTMENT 5323

10/13/99 15:20
 TEST Y007746

SEE DRAWING FOR SEPARATION OF LFS

-25 0 25 50 75 100 125 150 175 200 225
 EARLIER TIME LATER
 EVENT TIME (MSEC)



0877461-01



0877461-02



0877461-03



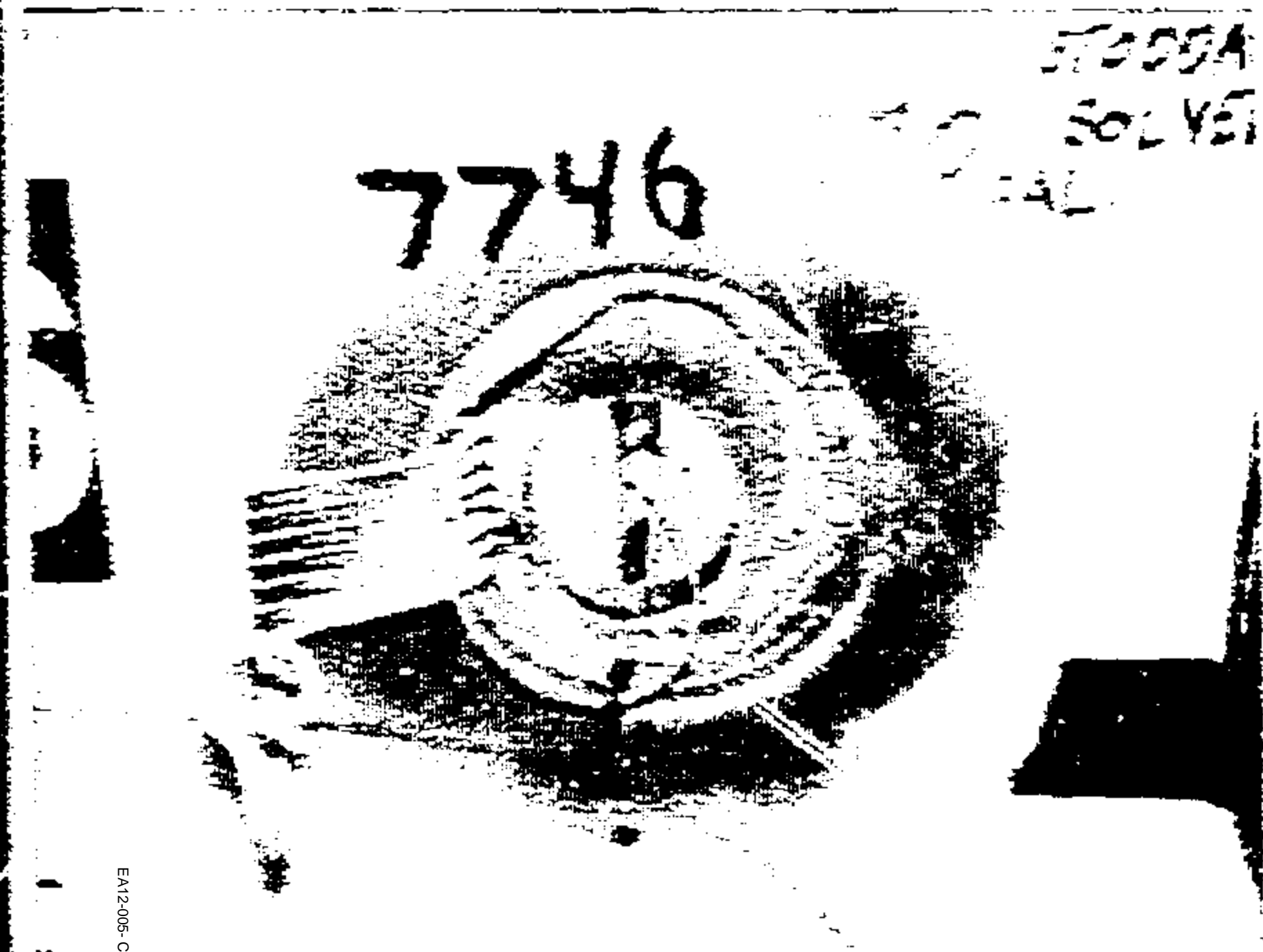
0877461-04



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Retrieval Methods Inc.

1142 E. Big Beaver Rd.

Troy, MI 48083

Declaration of Intent and Purpose

I David G. Venier

Employed by Retrieval Methods Inc., do hereby declare that the records microfiche'd herein are actual records of DaimlerChrysler Corp. created during its normal course of business and that it is the express intent and purpose of this organization to return all original records microphotographed herein.

Date: 20 Mar, 03

Microfiche Operator David Venier