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V2015

ESSAI DE COLLISION - BARRIER TEST REPORT

COLLISION LATÉRALE DE RECHERCHE
RESEARCH SIDE IMPACT

PROJET NO - PROJECT NO: 92-0535

VÉHICULE CIBLE / TARGET VEHICLE

CHEVROLET LUMINA 1991 TC # 91-005

BARRIÈRE MOBILE / MOBILE BARRIER

214 CEVA - MVTC 214

Préparé par
LE CENTRE D'ESSAIS
VÉHICULES AUTOMOBILES
BLAINVILLE, QUÉBEC

pour
LA DIVISION DES NORMES ET
RECHERCHES À LA SÉCURITÉ ROUTIÈRE

Prepared by
THE MOTOR VEHICLE
TEST CENTRE
BLAINVILLE, QUÉBEC

for
THE TRAFFIC SAFETY STANDARDS
AND RESEARCH DIVISION

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Transports Canada
C.E.V.A.

Transports Canada
M.V.T.C.

COLLISION LATÉRALE
RECHERCHE

SIDE IMPACT
RESEARCH

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Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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Les résultats des essais présentés dans ce compte rendu ne représentent pas une décision finale du Ministère des Transports quant à l'acceptation de la performance sécuritaire, de la consommation de carburant, ou de la conformité d'un véhicule ou des composantes d'un véhicule aux normes de sécurité et d'anti-pollution. Le Ministère des Transports ne certifie, n'approuve, n'endosse pas de produits automobiles.

The test results presented herein do not, in themselves, represent an official determination by the Department of Transport with respect to the safety performance, fuel consumption or compliance with safety and emission standards of any motor vehicle component. The Department of Transport does not certify, approve or endorse any motor vehicle product.

DESCRIPTION DU PROJET - PROJECT DESCRIPTION

No de projet - Project No: 92-0535	Description du mannequin (avant) - Dummy description (front) BIOSID	Description du mannequin (arrière) - Dummy description (rear) EUROSID 1
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VÉHICULE D'ESSAI - SUBJECT VEHICLE

Année du modèle - Model year 1991		Fabricant - Manufacturer GENERAL MOTORS OF CANADA LTD.		Modèle - Model LUMINA					
Type de carrosserie - Body style BERLINE 4 PORTES / 4 DOOR SEDAN		Boîte de vitesse - Transmission AUTOMATIQUE / AUTOMATIC		Moteur - Engine 3.1 l					
Date de fabrication - Date of manufacture 08/90		Cylindres - Cylinders 6		N° d'ident. du véhicule - Vehicle ident. No. 2G1WL51T1M9103844					
Lecture à l'odomètre - Odometer reading 6579 km		Couleur - Color ROUGE / RED		Date de réception - Date vehicle received 92/08/18					
Nom et adresse du concessionnaire - Dealer's name and address N.D.			État des pare-chocs et de la carrosserie Condition of the bumpers, body and frame EXCELLENT						
PNBV - GVWR 1977 kg		PNBE (Avant) - GAWR (Front) 1097 kg		PNBE (Arrière) - GAWR (Rear) 880 kg					
Servo direction Power steering	X	Vitres électriques Power windows		Volant inclinable Tilting steering wheel	X	Frein anti-blocage Anti-skid brake		Coussin gonflable situé dans le volant Air bag in steering wheel hub	
Servo freins Power brakes	X	Vitres teintées Tinted glass		Volant télescopique Telescoping steering wheel		Pompe à essence électrique Electric fuel pump	X	Ancrage de ceinture baudrier ajustable Adjustable upper anch. upper torso restraint	
Sièges électriques Power seats		Contr. de Vitesse Auto. speed control	X	Climatiseur Air conditioning		Injection d'essence Fuel injection	X	Evidence d'accident antérieur Evidence of prior accident history	

BARRIÈRE MOBILE- MOBILE BARRIER

Type de barrière - Barrier type 214 C.E.V.A. / M.V.T.C. 214	Type de face déformable - Type of deformable face DSL 1285 NHTSA SIDE IMPACT BARRIER	Vitesse d'impact - Impact velocity ** 54.8 Km/h.
Hauteur du sol de la face déformable Ground clearance of deformable barrier 273 mm	Angle d'impact - Impact angle GAUCHE 27° LEFT	Point d'impact - Impact point * 11 mm.
Masse roue Avant Gauche - Weight Front Left wheel 385.4 Kg.	Masse roue Avant Droite - Weight Front Right wheel 403.7 Kg.	Poids total - Total weight 1360.6 Kg.
Masse roue Arrière Gauche - Weight Rear Left wheel 312.4 Kg.	Masse roue Arrière Droite - Weight Rear Right wheel 259.1 Kg.	--

* Tel que mesuré - As measured ☒ avant - forward du point d'impact - of the impact point
☐ arrière - rearward

** Tel que mesuré durant les derniers 3.7 mètres de trajet - As measured over final 3.7 meters of travel

Technologue d'essai: Test technologist: <i>Gérald Lussier</i> GÉRALD LUSSIER	Date 92/10/19
Ingénieur d'essai: Test engineer: <i>Robert Malo</i> ROBERT MALO	Date 92/10/15
Rapport accepté par: Report accepted by:	Date

SECTION 1

VÉHICULE CIBLE - TEST VEHICLE



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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CAPACITÉ DU VÉHICULE / VEHICLE CAPACITY :

Capacité du véhicule - Vehicle capacity				Masse des bagages - Cargo Load		Types de sièges -Type of seats			Types de dossiers -Type of seat back		
480 Kg.				60 Kg.			Avt - Frt	Arr - Rr		Avt - Frt	Arr - Rr
Nombre d'occupants (places assises désignées) Number of occupants (designated seating places)						Banquette Bench	X	X	Dossier ajustable Adjustable seat back	X	
Avant - Front		3	Arrière - Rear		3	Total	6	Baquet Bucket		Dossier non-ajustable Non-adjustable seat back	X

SPÉCIFICATIONS DES PNEUS DU VÉHICULE / VEHICLE TIRE DATA:

Pression recommandée à froid - Recommended cold tire pressure		Nombres de plis - Ply rating		Dimension recommandée - Recommended size	
Avant - Front	210Kpa.	Arrière - Rear	210 Kpa.	4	P195 / 75R14

LIQUIDES D'ESSAI / TEST FLUID :

Type de liquide d'essai - Test fluid type STODDARD	Gravité spécifique - Specific gravity 0.764 Kg/L.	Volume d'essai - Test volume *** 38.44 L.
Viscosité cinématique - Kinematic viscosity --	Capacité du système d'alimentation (donné provenant du manuel du propriétaire) Fuel system capacity (data from owner's manual) 62.0 L.	

**DONNÉES DU VÉHICULE DE TEST
SUBJECT VEHICLE DATA**

	PRÉVU INTENDED	OBTENU ACTUAL	DONNÉES DATA	PRÉVU INTENDED	OBTENU ACTUAL
Masse du véhicule d'essai - Vehicle test weight	1689.4 Kg.	1687.7 Kg.	Masse du BMD - MDB test weight	1367 Kg.	1360 Kg.
Point d'impact - Impact point *	0 mm.	11 mm.	Vélocité du BMD - MDB velocity **	53.9 Km/h.	54.8 Km/h.

* Tel que mesuré - As measured ☒ avant - forward du point d'impact - of the impact point
☐ arrière - rearward

** Tel que mesuré durant les derniers 3.7 mètres de trajet - As measured over final 3.7 meters of travel

CONDITIONS D'ESSAIS - TEST CONDITIONS

Heure de l'impact - Impact time 14:50	Humidité - Humidity 60%.
Température à l'intérieur du véhicule - Temperature in occupant compartment 19.2 °C.	Vélocité du vent - Wind velocity S.O. / S.W. 14 Km/h.
Température ambiante au moment de l'impact - Ambient temperature at impact area 22.8 °C.	

*** NOTE: 19.9 LITRES DE CARBURANT "STODDARD" FURENT RETIRÉS AFIN D'OBTENIR LA MASSE D'ESSAI REQUISE

*** NOTE: 19.9 LITERS OF STODDARD WERE DRAINED OUT TO OBTAIN THE REQUIRED TEST WEIGHT



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PREMIÈRE PESÉE: VÉHICULE TEL LIVRÉ (AVEC LIQUIDES AU MAXIMUM)
FIRST WEIGHT: TEST VEHICLE AS RECEIVED(WITH MAXIMUM FLUIDS)

Avant gauche - Left front	486.2 Kg.	Avant droit - Right front	464.3 Kg.	Masse avant totale - Total front weight	950.5 Kg.
Arrière gauche - Left rear	265.2 Kg.	Arrière droit - Right rear	263.6 Kg.	Masse arrière totale - Total rear weight	528.8 Kg.
Masse totale côté gauche - Total left side weight	751.4 Kg.	Masse totale côté droit - Total right side weight	727.9 Kg.	Masse totale - Total weight	1479.3 Kg.

HAUTEUR DU VÉHICULE - VEHICLE ATTITUDE

Hauteur tel que délivré Delivered attitude	Avant gauche Left front	750 mm.	Avant droit Right front	750 mm.
	Arrière gauche Left rear	800 mm.	Arrière droit Right rear	800 mm.
Hauteur avec masse d'essai Test weight attitude	Avant gauche Left front	732 mm.	Avant droit Right front	745 mm.
	Arrière gauche Left rear	743 mm.	Arrière droit Right rear	757 mm.
Hauteur finale avant l'essai Pre-test final attitude	Avant gauche Left front	732 mm.	Avant droit Right front	739 mm.
	Arrière gauche Left rear	745 mm.	Arrière droit Right rear	755 mm.
Attitude sur tablier d'essais Vehicle attitude on test pad	Avant gauche Left front	734 mm.	Avant droit Right front	738 mm.
	Arrière gauche Left rear	746 mm.	Arrière droit Right rear	745 mm.
Hauteur après l'essai Post-test attitude	Avant gauche Left front	779 mm.	Avant droit Right front	743 mm.
	Arrière gauche Left rear	762 mm.	Arrière droit Right rear	730 mm.

DEUXIÈME PESÉE: VÉHICULE AVEC MANNEQUINS ET MASSE DE BAGAGES REQUISE
SECOND WEIGHT: TEST VEHICLE WITH REQUIRED DUMMIES AND CARGO LOAD

Avant gauche - Left front	536.0 Kg.	Avant droit - Right front	458.0 Kg.	Masse avant totale - Total front weight	994.0 Kg.
Arrière gauche - Left rear	361.3 Kg.	Arrière droit - Right rear	334.1 Kg.	Masse arrière totale - Total rear weight	695.4 Kg.
Masse totale côté gauche - Total left side weight	897.3 Kg.	Masse totale côté droit - Total right side weight	792.1 Kg.	Masse totale - Total weight	1689.4 Kg.

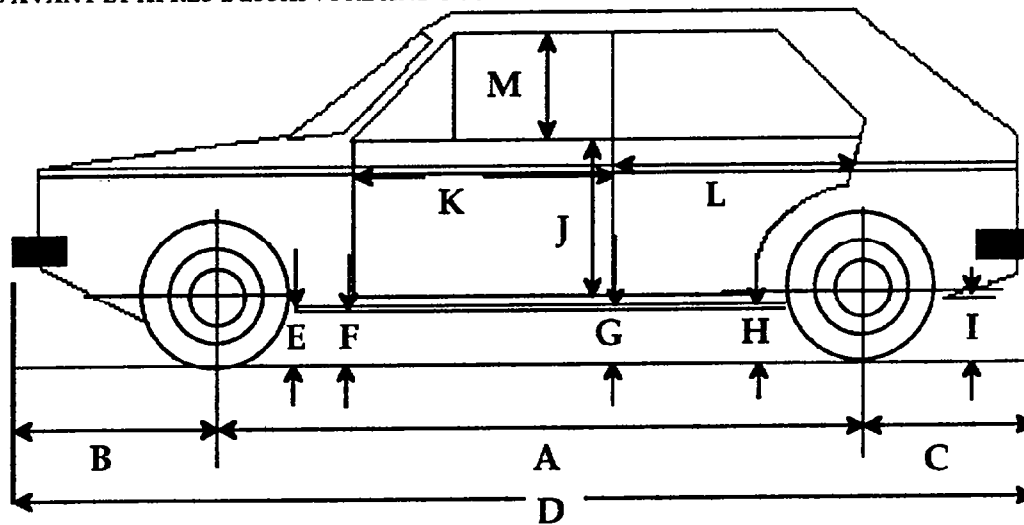
TROISIÈME PESÉE: VÉHICULE PRÊT POUR L'ESSAI
THIRD WEIGHT: TEST VEHICLE READY FOR TEST

Avant gauche - Left front	519.1 Kg.	Avant droit - Right front	475.1 Kg.	Masse avant totale - Total front weight	994.2 Kg.
Arrière gauche - Left rear	352.6 Kg.	Arrière droit - Right rear	340.9 Kg.	Masse arrière totale - Total rear weight	693.5 Kg.
Masse totale côté gauche - Total left side weight	871.7 Kg.	Masse totale côté droit - Total right side weight	816.0 Kg.	Masse totale - Total weight	1687.7 Kg.



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LES MESURES AVANT ET APRÈS L'ESSAI / PRE AND POST-TEST MEASUREMENTS



	Avant l'essai / Pre-test	Après l'essai / Post-test	Δ différence / Δ change
A	2730 mm	2580 mm	150 mm
B	1178 mm	1195 mm	-17 mm
C	1134 mm	1130 mm	4 mm
D*	5042 mm	4905 mm	137 mm
E	218 mm	215 mm	3 mm
F	218 mm	215 mm	3 mm
G	215 mm	210 mm	5 mm
H	203 mm	200 mm	3 mm
I	261 mm	250 mm	11 mm
J	605 mm	560 mm	45 mm
K	1040 mm	1015 mm	25 mm
L	1038 mm	965 mm	73 mm
M	487 mm	480 mm	7 mm
N	N/A mm	N/A mm	N/A mm
	1810 mm	1485 mm	325 mm

→ Largeur maximale du véhicule en Y à 2650 mm du point de référence en X
Maximum vehicle width in Y axis at 2650 mm of the reference point in the X axis

* Mesure prise sans le support de plaque d'immatriculation avant

* Measure taken without the front license-plate holder.

Date de collision
Date impacted

92/09/04

Véhicule
Vehicle

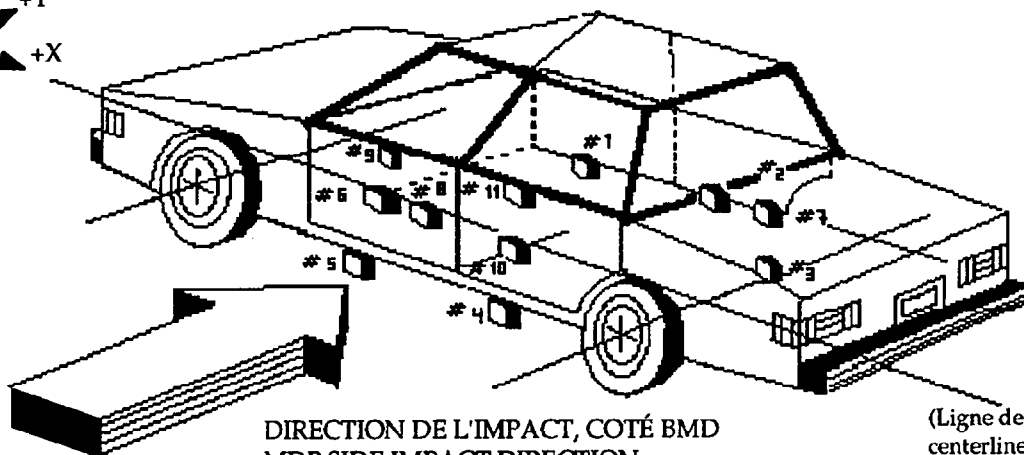
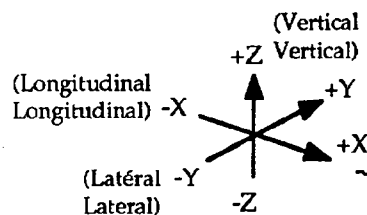
CHEVROLET LUMINA 1991

T.C. N°
T.C. No.

91-005

EMPLACEMENT DES ACCÉLÉROMÈTRES
ACCELEROMETER POSITIONS

Point de référence : Centre transversal du véhicule, au point le plus avancé, au niveau du sol. Selon SAE J182a.
Reference point: Transversal centre of the vehicle, at the foremost point and at ground level. As SAE J182a.



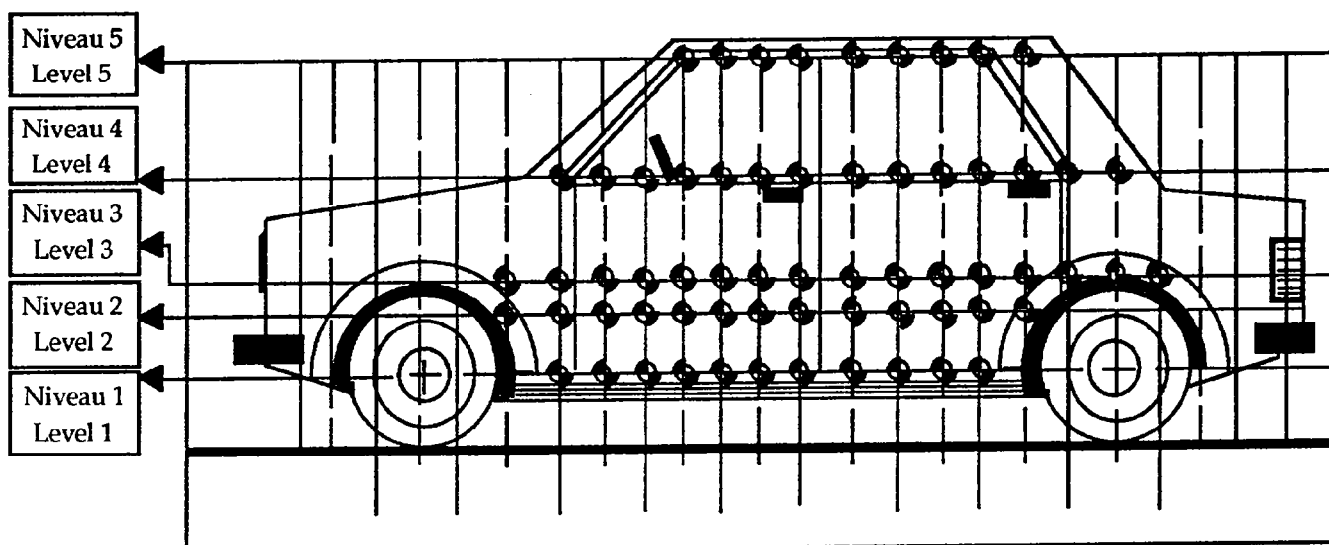
	ENDROIT/LOCATION	COORDONNÉES/COORDINATES		
		X	Y	Z
1	Seuil de la portière avant droite Front right door sill	2123 mm	660 mm	215 mm
2	Seuil de la portière arrière droite Rear right door sill	3335 mm	650 mm	195 mm
3	Plancher arrière au dessus de l'essieu Rear floor-pan above axle	3873 mm	10 mm	588 mm
4	Seuil de la portière arrière gauche Rear left door sill	3320 mm	-682 mm	190 mm
5	Seuil de la portière avant gauche Front left door sill	2265 mm	-692 mm	202 mm
6	Portière avant gauche, sur la ligne médiane, à la mi-hauteur de la portière Front left centreline of door, at mid-door height	2170 mm	-796 mm	548 mm
7	Compartiment du passager arrière droit Rear right occupant compartment	3355 mm	383 mm	313 mm
8	Portière avant gauche, à mi-chemin de la ligne médiane et l'arrière de la portière, à la mi-hauteur Front left mid-way between centreline and rear part of door, at mid-door height	2316 mm	-766 mm	432 mm
9	Seuil de fenêtre de la portière avant gauche Front left window sill	2272 mm	-808 mm	852 mm
10	Portière arrière gauche, sur la ligne médiane, à la mi-hauteur de la portière Rear left centreline of door, at mid-door height	3110 mm	-785 mm	563 mm
11	Seuil de fenêtre de la portière arrière gauche Rear left window sill	3170 mm	-786 mm	848 mm



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MESURES DE CÔTÉ DU VÉHICULE / VEHICLE SIDE MEASUREMENTS

Niveau 5 @ Haut de la fenêtre / Level 5 @ Window top	=	1323	mm.	} Au-dessus du sol Above ground level
Niveau 4 @ Bas de la fenêtre / Level 4 @ Window sill	=	834	mm.	
Niveau 3 @ Milieu de la porte / Level 3 @ Mid door	=	573	mm.	
Niveau 2 @ Point-H du conducteur / Level 2 @ Occupant H-Point	=	497 *	mm.	
Niveau 1 @ Ligne centrale des essieux (ou Hauteur du seuil de porte) Level 1 @ Axle Centerline height (or Sill top height)	=	245	mm.	



* MESURE OBTENUE À L'AIDE DU MANNEQUIN 3"D"

* MEASURE OBTAINED WITH THE 3"D" H POINT MACHINE



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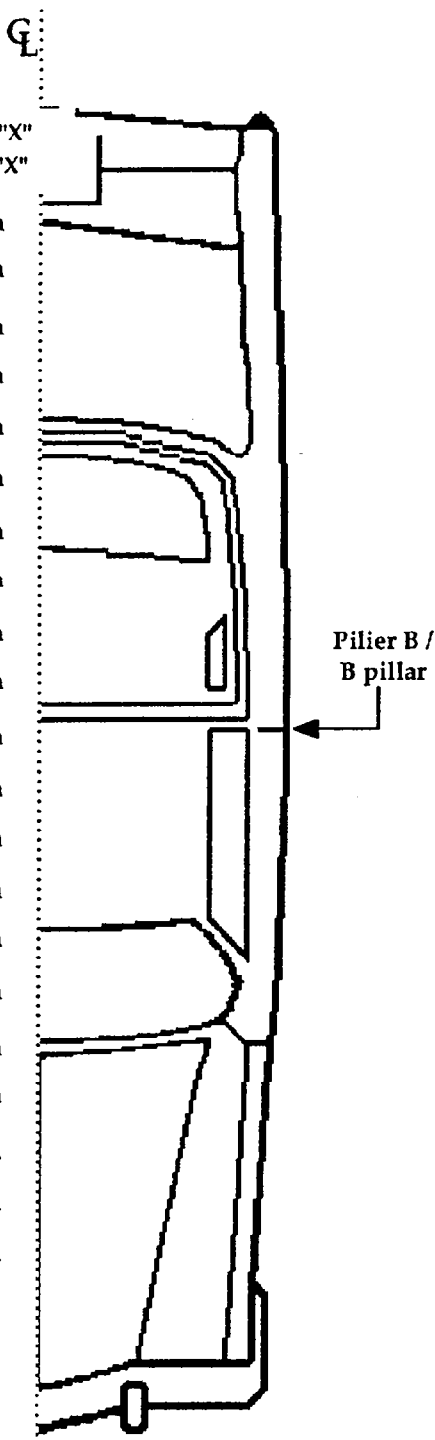
MESURES DU PROFIL DU VÉHICULE CIBLE / TEST VEHICLE PROFILE MEASUREMENTS

NIVEAU 1 / LEVEL 1

Profil extérieur à 245 mm Pre-test au-dessus du sol
Exterior profile at 245 mm Post-test above ground level

Distances en "X"
Distances in "X"

- mm
- mm
- mm
- mm
- mm
3400 mm
3250 mm
3100 mm
2950 mm
2800 mm
2650 mm
2500 mm
2350 mm
2200 mm
2050 mm
1900 mm
1750 mm
1600 mm
- mm
- mm
- mm



Profil Pré-test Pre-test profile	Profil Post-test Post-test profile	Différence Variation
-------------------------------------	---------------------------------------	-------------------------

- mm	- mm	- mm
- mm	- mm	- mm
- mm	- mm	- mm
- mm	- mm	- mm
- mm	- mm	- mm
-809 mm	-791 mm	18 mm
-812 mm	-762 mm	50 mm
-814 mm	-732 mm	82 mm
-815 mm	-696 mm	119 mm
-816 mm	-606 mm	210 mm
-824 mm	-654 mm	170 mm
-824 mm	-685 mm	139 mm
-822 mm	-700 mm	122 mm
-818 mm	-718 mm	100 mm
-816 mm	-740 mm	76 mm
-812 mm	-755 mm	57 mm
-810 mm	-725 mm	85 mm
-808 mm	-785 mm	23 mm
- mm	- mm	- mm
- mm	- mm	- mm
- mm	- mm	- mm

Point de référence / Reference

Centre du pare-choc avant au niveau du sol

Front bumper centre at ground level

Pilier "B" / "B" pillar

Pre-test	"X": <u>2650</u> mm	"Y": <u>-824</u> mm
Post-test	"X": <u>2680</u> mm	"Y": <u>-655</u> mm

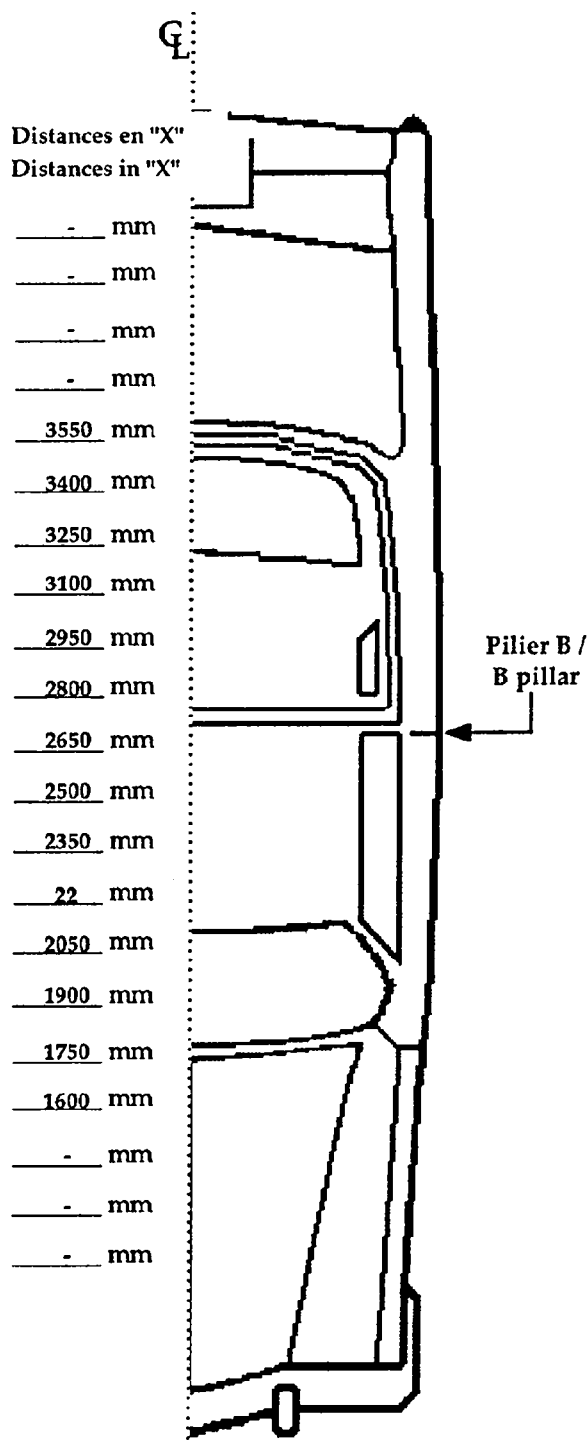


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MESURES DU PROFIL DU VÉHICULE CIBLE / TEST VEHICLE PROFILE MEASUREMENTS

NIVEAU 2 / LEVEL 2

Profil extérieur à 497 mm Pre-test au-dessus du sol
Exterior profile at 497 mm Post-test above ground level



Profil Pré-test Pre-test profile	Profil Post-test Post-test profile	Différence Variation
- mm	- mm	- mm
- mm	- mm	- mm
- mm	- mm	- mm
- mm	- mm	- mm
-878 mm	-853 mm	25 mm
-884 mm	-646 mm	238 mm
-888 mm	-600 mm	288 mm
-890 mm	-587 mm	303 mm
-893 mm	-588 mm	305 mm
-898 mm	-609 mm	289 mm
-900 mm	-576 mm	324 mm
-900 mm	-577 mm	323 mm
-898 mm	-588 mm	310 mm
-896 mm	-602 mm	294 mm
-894 mm	-616 mm	278 mm
-892 mm	-650 mm	242 mm
-888 mm	-714 mm	174 mm
-886 mm	-820 mm	66 mm
- mm	- mm	- mm
- mm	- mm	- mm
- mm	- mm	- mm

Point de référence / Reference

Centre du pare-choc avant au niveau du sol

Front bumper centre at ground level

Pilier "B" / "B" pillar

Pre-test "X": 2680 mm "Y": -810 mm
Post-test "X": 2728 mm "Y": -542 mm

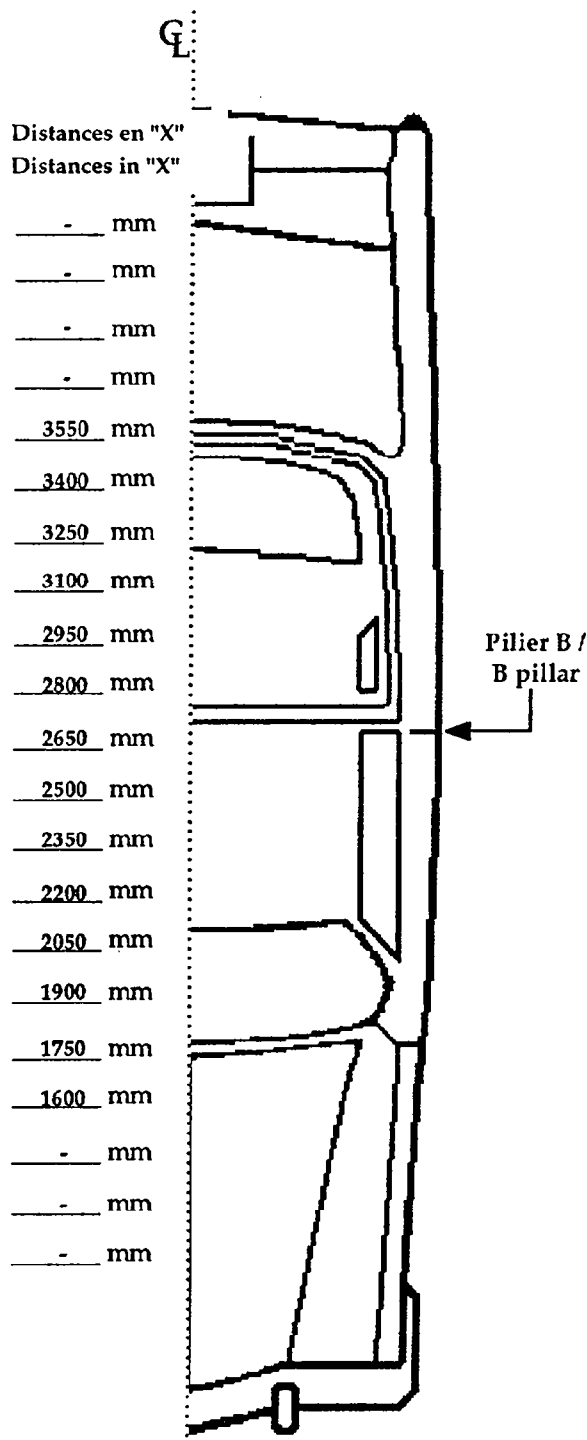


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MESURES DU PROFIL DU VÉHICULE CIBLE / TEST VEHICLE PROFILE MEASUREMENTS

NIVEAU 3 / LEVEL 3

Profil extérieur à 573 mm Pre-test au-dessus du sol
Exterior profile at 573 mm Post-test above ground level



Profil Pré-test Pre-test profile	Profil Post-test Post-test profile	Différence Variation
- mm	- mm	- mm
- mm	- mm	- mm
- mm	- mm	- mm
- mm	- mm	- mm
-880 mm	-836 mm	44 mm
-887 mm	-641 mm	246 mm
-892 mm	-610 mm	282 mm
-895 mm	-611 mm	284 mm
-898 mm	-628 mm	270 mm
-900 mm	-631 mm	269 mm
-902 mm	-623 mm	279 mm
-904 mm	-628 mm	276 mm
-904 mm	-637 mm	267 mm
-902 mm	-654 mm	248 mm
-900 mm	-666 mm	234 mm
-897 mm	-689 mm	208 mm
-895 mm	-731 mm	164 mm
-892 mm	-852 mm	40 mm
- mm	- mm	- mm
- mm	- mm	- mm
- mm	- mm	- mm

Point de référence / Reference

Centre du pare-choc avant au niveau du sol

Front bumper centre at ground level

Pilier "B" / "B" pillar

Pre-test "X": 2675 mm "Y": -817 mm
Post-test "X": 2728 mm "Y": -540 mm

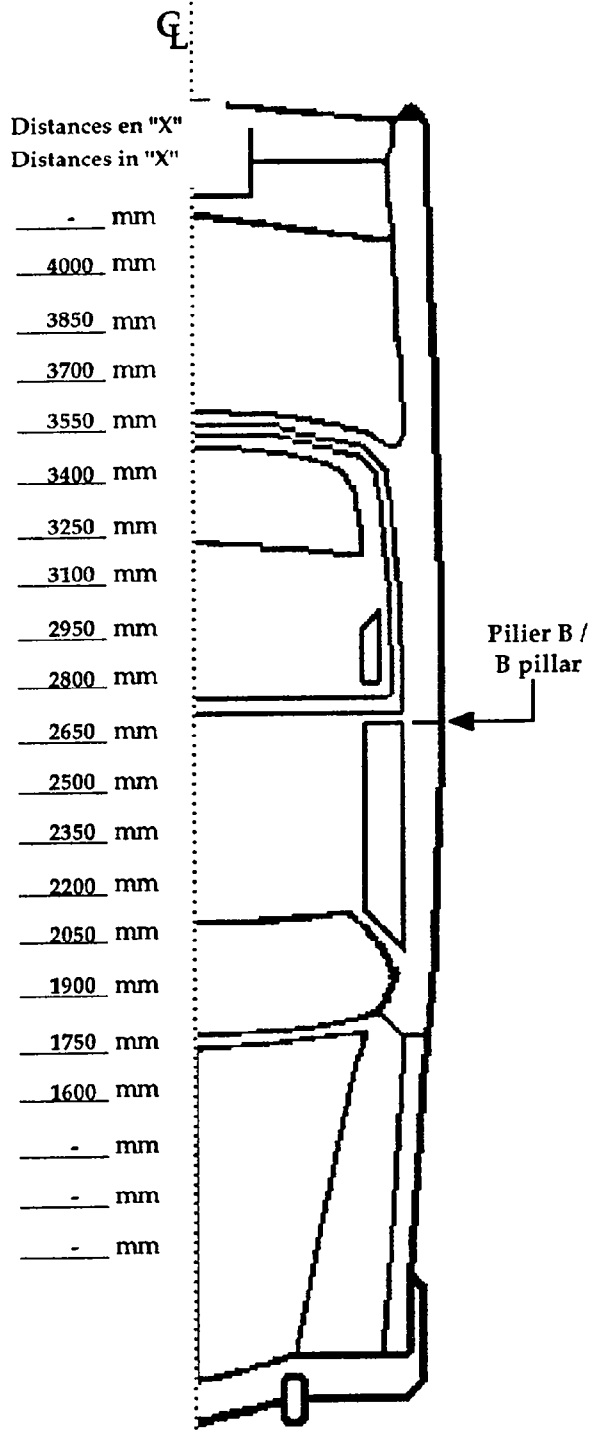


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MESURES DU PROFIL DU VÉHICULE CIBLE / TEST VEHICLE PROFILE MEASUREMENTS

NIVEAU 4 / LEVEL 4

Profil extérieur à 834 mm Pre-test au-dessus du sol
Exterior profile at 834 mm Post-test above ground level



Profil Pré-test Pre-test profile	Profil Post-test Post-test profile	Différence Variation
- mm	- mm	- mm
-822 mm	-820 mm	2 mm
-828 mm	-812 mm	16 mm
-835 mm	-892 mm	-57 mm
-840 mm	-802 mm	38 mm
-846 mm	-665 mm	181 mm
-852 mm	-597 mm	255 mm
-855 mm	-605 mm	250 mm
-858 mm	-603 mm	255 mm
-860 mm	-632 mm	228 mm
-863 mm	-653 mm	210 mm
-865 mm	-668 mm	197 mm
-865 mm	-680 mm	185 mm
-863 mm	-692 mm	171 mm
-860 mm	-710 mm	150 mm
-858 mm	-756 mm	102 mm
-852 mm	-750 mm	102 mm
-848 mm	-833 mm	15 mm
- mm	- mm	- mm
- mm	- mm	- mm
- mm	- mm	- mm

Point de référence / Reference

Centre du pare-choc avant au niveau du sol
Front bumper centre at ground level

Pilier "B" / "B" pillar

Pre-test "X": 2720 mm "Y": -815 mm
Post-test "X": 2775 mm "Y": -602 mm



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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MESURES DU PROFIL DU VÉHICULE CIBLE / TEST VEHICLE PROFILE MEASUREMENTS

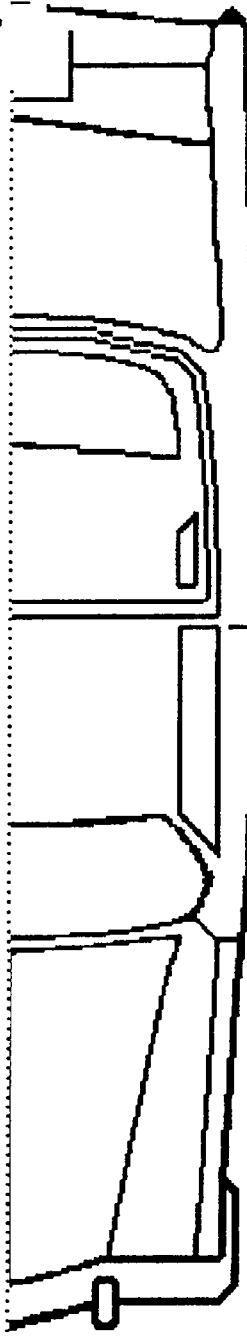
NIVEAU 5 / LEVEL 5

Profil extérieur à 1323 mm Pre-test au-dessus du sol
Exterior profile at 1323 mm Post-test above ground level

Distances en "X"
Distances in "X"

 mm
 mm
 mm
 mm
 mm
3550 mm
3400 mm
3250 mm
3100 mm
2950 mm
2800 mm
2650 mm
2500 mm
2350 mm
 mm
 mm
 mm
 mm
 mm
 mm
 mm

QL



Pilier B /
B pillar

Profil Pré-test Pre-test profile	Profil Post-test Post-test profile	Différence Variation
<u> </u> mm	<u> </u> mm	<u> </u> mm
<u> </u> mm	<u> </u> mm	<u> </u> mm
<u> </u> mm	<u> </u> mm	<u> </u> mm
<u> </u> mm	<u> </u> mm	<u> </u> mm
<u> </u> mm	<u> </u> mm	<u> </u> mm
<u>-593</u> mm	<u>-564</u> mm	<u>29</u> mm
<u>-606</u> mm	<u>-684</u> mm	<u>-78</u> mm
<u>-612</u> mm	<u>-660</u> mm	<u>-48</u> mm
<u>-615</u> mm	<u>-618</u> mm	<u>-3</u> mm
<u>-617</u> mm	<u>-574</u> mm	<u>43</u> mm
<u>-618</u> mm	<u>-623</u> mm	<u>-5</u> mm
<u>-622</u> mm	<u>-647</u> mm	<u>-25</u> mm
<u>-620</u> mm	<u>-668</u> mm	<u>-48</u> mm
<u>-617</u> mm	<u>-674</u> mm	<u>-57</u> mm
<u> </u> mm	<u> </u> mm	<u> </u> mm
<u> </u> mm	<u> </u> mm	<u> </u> mm
<u> </u> mm	<u> </u> mm	<u> </u> mm
<u> </u> mm	<u> </u> mm	<u> </u> mm
<u> </u> mm	<u> </u> mm	<u> </u> mm
<u> </u> mm	<u> </u> mm	<u> </u> mm
<u> </u> mm	<u> </u> mm	<u> </u> mm
<u> </u> mm	<u> </u> mm	<u> </u> mm

Point de référence / Reference

Centre du pare-choc avant au niveau du sol

Front bumper centre at ground level

Pilier "B" / "B" pillar

Pre-test "X": 2857 mm "Y": -598 mm
Post-test "X": 2900 mm "Y": -550 mm



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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MESURE DE DÉFORMATION DU PILIER "B"
"B" PILLAR DEFORMATION MEASUREMENTS

NIVEAU LEVEL	PRE-TEST		POST-TEST (2)*		
	X	Y	X	Y	Z
1	2650 mm	-824 mm	2680 mm	-655 mm	233 mm
2	2680 mm	-810 mm	2728 mm	-542 mm	461 mm
3	2675 mm	-817 mm	2728 mm	-540 mm	526 mm
4	2720 mm	-815 mm	2775 mm	-602 mm	780 mm
5	2857 mm	-598 mm	2900 mm	-550 mm	1295 mm
(1) Point où la pénétration est maximale Point of maximum intrusion			2728 mm	-542 mm	461 mm

(2)* Coordonnées de la position finale des cibles
Target final position coordinates

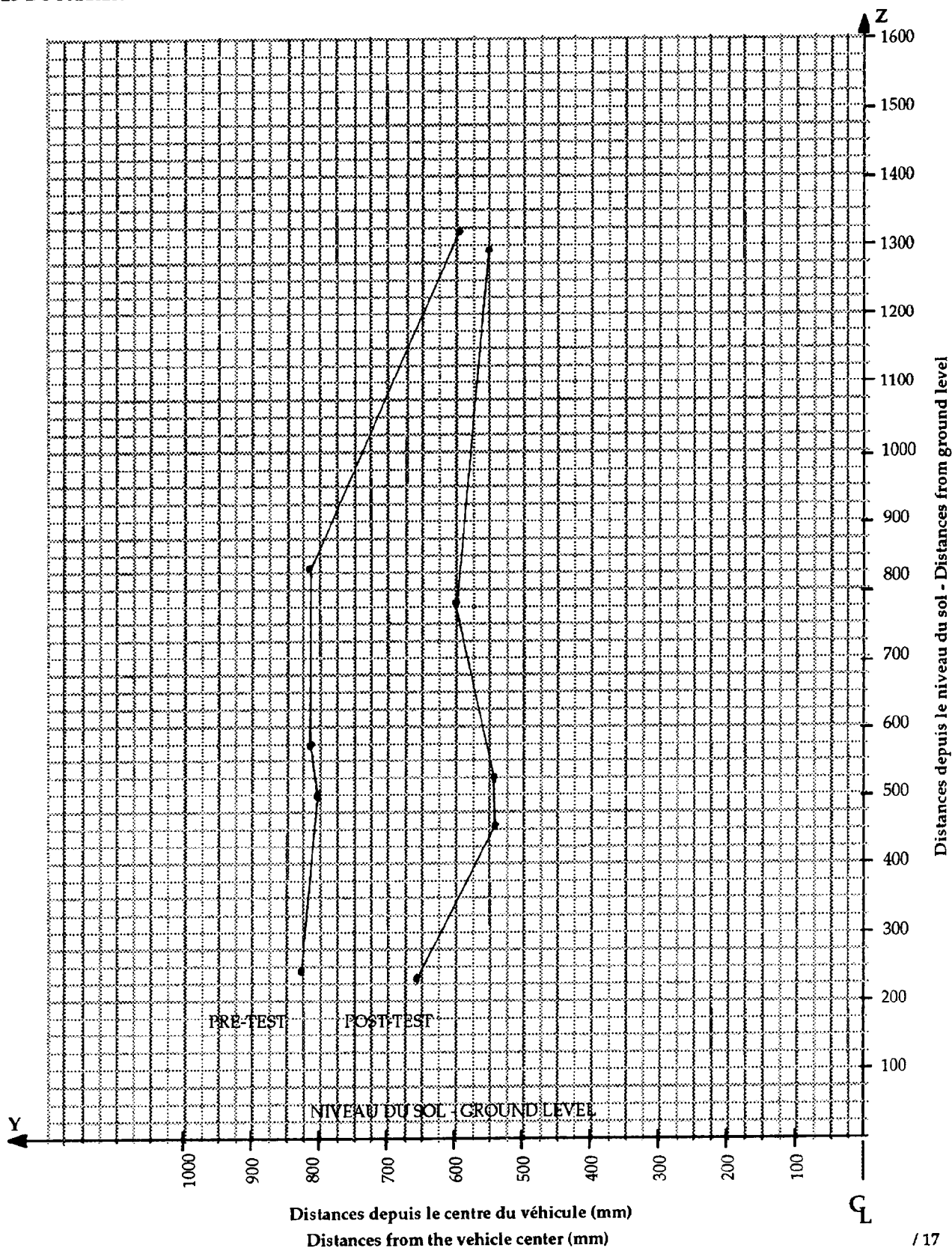
Point de référence zéro:	Centre du pare-choc avant, au sol
Zero reference point:	Front bumper centre, at ground level

Commentaires/Comments



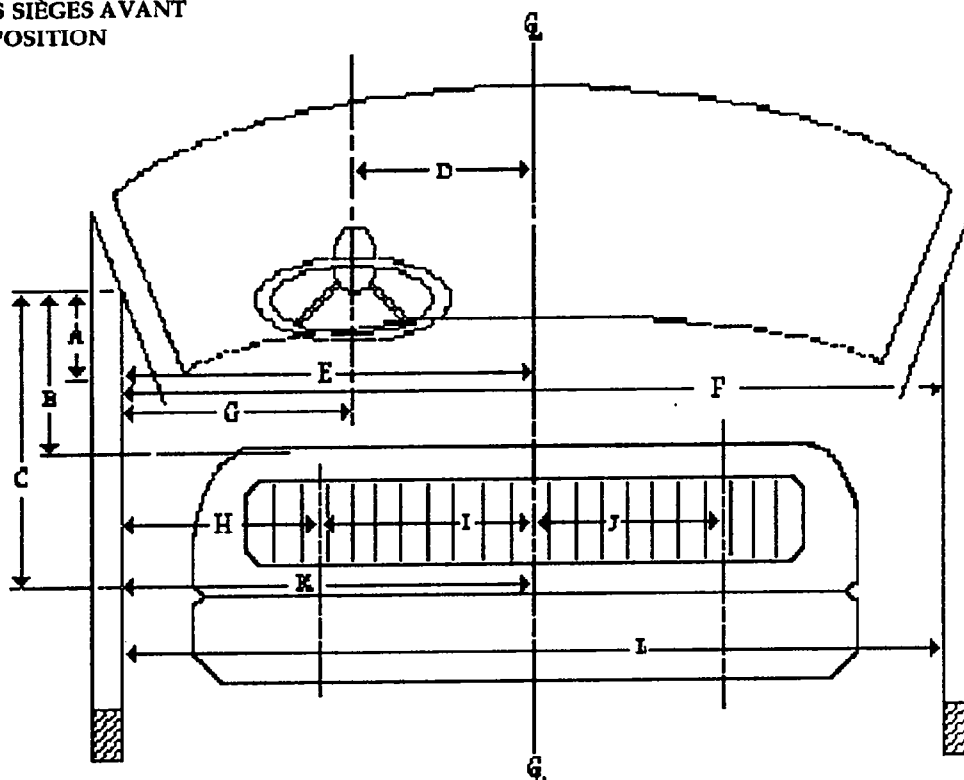
Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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PROFILS DU PILLIER "B" AVANT ET APRÈS COLLISION - PROFILES OF "B" PILLAR BEFORE AND AFTER TEST





Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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POSITION DES SIÈGES AVANT
FRONT SEAT POSITION

Code	Description	mm	Code	Description	mm
A	Point de mesure le plus avancé Foremost measuring point	N/A	I	Centre du siège à la ligne de centre du véhicule (conducteur) Seat midline to center line of vehicle (driver)	353
B	Le point le plus avant sur le siège (mesurable) Foremost measurable point on front seat	N/A	J	Centre du siège à la ligne de centre du véhicule (passager) Seat midline to center line of vehicle (passenger)	N/A
C	Le point le plus reculé sur le siège (mesurable) Rearmost measurable point on front seat	N/A	K	Seuil de fenêtre à la ligne de centre du véhicule (le plus reculé) Window edge to center line of vehicle (rearmost)	827
D	Centre du volant à la ligne de centre du véhicule Steering wheel center to center line of car	353	L	Fenêtre à fenêtre (le plus reculé) Window to window (rearmost)	1654
E	Seuil de fenêtre à la ligne de centre du véhicule Window edge to center line of the vehicle	827	M		
F	Fenêtre à fenêtre Window to window	1654	N		
G	Centre du volant au seuil de la fenêtre Steering wheel center to window edge	474	O		
H	Seuil de la fenêtre au centre du siège Window edge to seat midline	474	P		

Point de référence : Centre transversal du véhicule, au point le plus avancé, au niveau du sol. Selon SAE J182a. Sans le support de plaque d'immatriculation avant.

Reference point: Transversal centre of the vehicle, at the foremost point and at ground level. As SAE J182a. Without the front license-plate holder.

REMARQUES - COMMENTS :

Date de collision
Date impacted

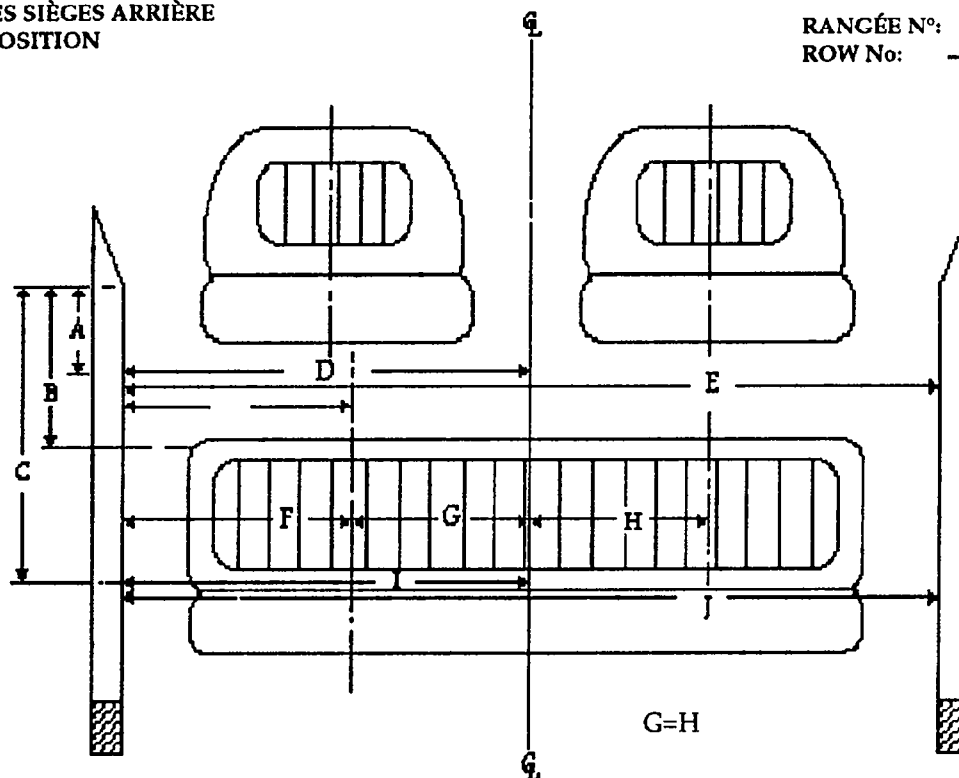
92/09/04

Véhicule
Vehicle

CHEVROLET LUMINA 1991

T.C. N°
T.C. No.

91-005

POSITION DES SIÈGES ARRIÈRE
REAR SEAT POSITIONRANGÉE N°:
ROW No: 2ième / 2nd

Code	Description	mm	Code	Description	mm
A	Point de mesure le plus avancé Foremost measuring point	N/A	I	Seuil de fenêtre à la ligne de centre du véhicule (le plus reculé) Window edge to center line of vehicle (rearmost)	474
B	Le point le plus avancé sur le siège (mesurable) Foremost measurable point on front seat	N/A	J	Fenêtre à fenêtre (le plus reculé) Window to window (rearmost)	1654
C	Le point le plus reculé sur le siège (mesurable) Rearmost measurable point on front seat	N/A	K		
D	Seuil de fenêtre à la ligne de centre du véhicule Window edge to center line of the vehicle	827	L		
E	Fenêtre à fenêtre Window to window	1654	M		
F	Seuil de la fenêtre au centre du siège Window edge to seat midline	474	N		
G	Centre du siège à la ligne de centre du véhicule (gauche) Seat midline to center line of vehicle (left)	353	O		
H	Centre du siège à la ligne de centre du véhicule (droit) Seat midline to center line of vehicle (right)	N/A	P		

Point de référence : Centre transversal du véhicule, au point le plus avancé, au niveau du sol. Selon SAE J182a. Sans le support de plaque d'immatriculation avant.

Reference point: Transversal centre of the vehicle, at the foremost point and at ground level. As SAE J182a. Without the front license-plate holder.

REMARQUES - COMMENTS :

SECTION 2

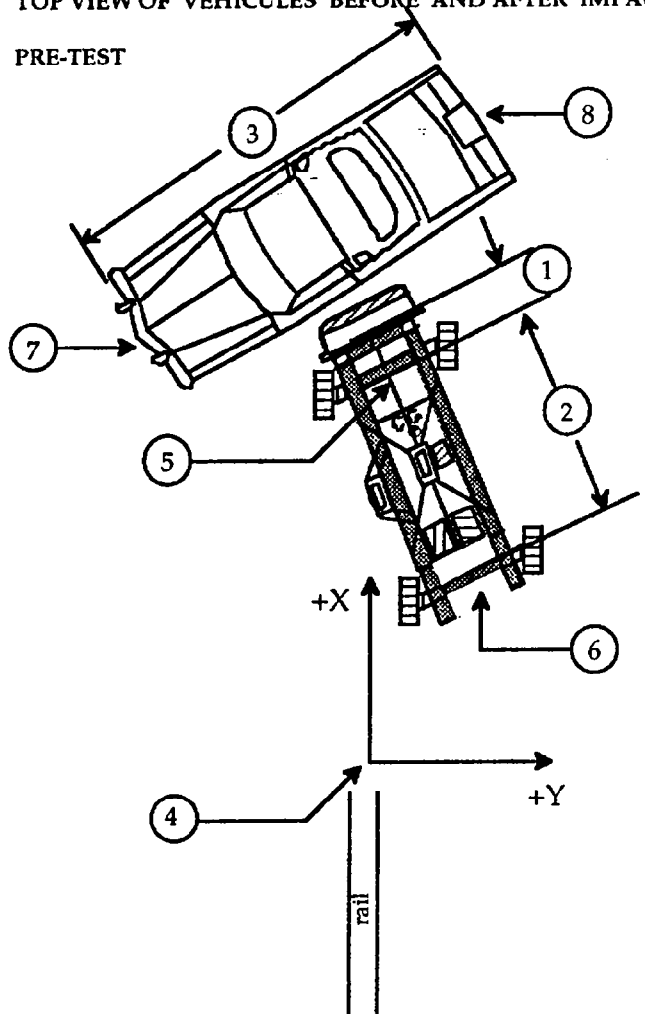
BARRIÈRE MOBILE - MOBILE BARRIER

Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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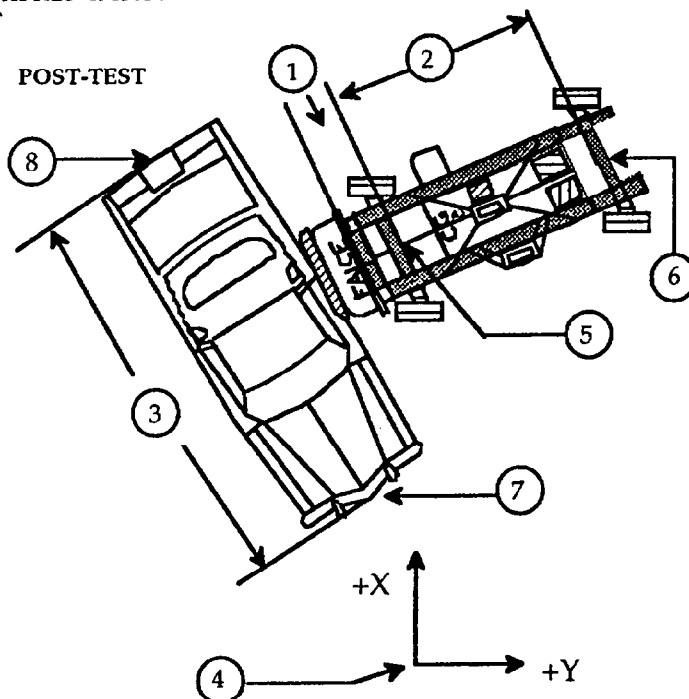
Barrière Barrier	214 C.E.V.A. / M.V.T.C.214	Angle Angle	27°	Gauche Left	☒	Droit Right	☐
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RELEVÉ TOPOGRAPHIQUE DES VÉHICULES AVANT ET APRÈS IMPACT
TOP VIEW OF VEHICLES BEFORE AND AFTER IMPACT

PRE-TEST



POST-TEST



	DESCRIPTION	LONGUEUR LENGTH
1	Ref. avant/point zéro du nid d'abeille Bélier ou BMD Front ref./zero point of the honeycomb Bullet vehicle or MDB	<u>675</u> mm
2	Essieux centre/centre Bélier ou BMD Axles centre/centre Bullet vehicle or MDB	<u>2590</u> mm
3	Ref. avant/ref. arrière Cible Front ref./rear ref. Target vehicle	<u>5042</u> mm

	DESCRIPTION	PRE-TEST		POST-TEST	
		X	Y	X	Y
4	Point de référence fixe au sol Reference point on the ground	0 mm	0 mm	0 mm	0 mm
5	Point de référence avant Bélier ou BMD Front reference point Bullet vehicle or MDB	715 mm	215 mm	5310 mm	950 mm
6	Point de référence arrière Bélier ou BMD Rear reference point Bullet vehicle or MDB	-1604 mm	1395 mm	4850 mm	3897 mm
7	Point de référence avant Cible Front reference point Target vehicle	1555 mm	-2893 mm	3890 mm	1545 mm
8	Point de référence arrière Cible Rear reference point Target vehicle	3820 mm	1600 mm	8620 mm	150 mm

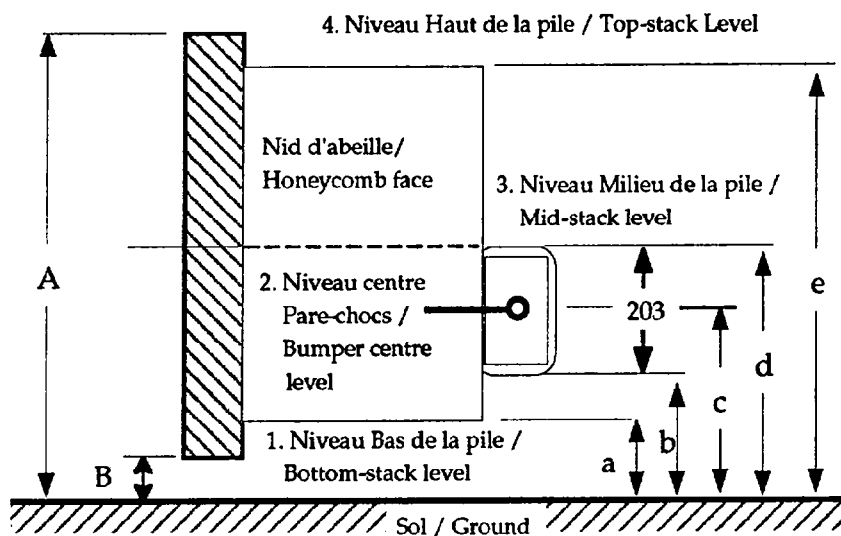


Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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Dimensions de la face Déformable de la Barrière Mobile 214 (CEVA)

Dimensions of the 214 Mobile Deformable Barrier (MVTC)

(Toutes les mesures sont en mm / All measurements are in mm)



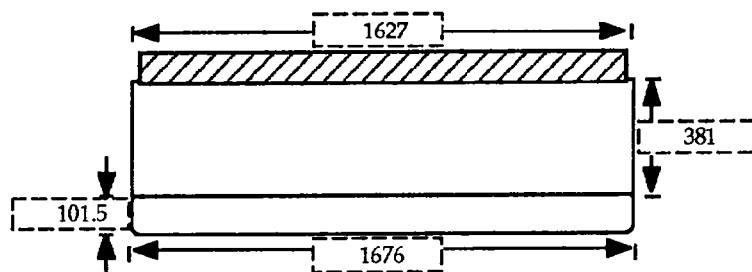
Vue de côté (Niveau du sol) / Side View (Ground level)

**Face d'aluminium de la barrière/
barrier aluminium face**

	Suggérée Suggested	Mesurée / Measured
A	914	914
B	247	240

Nid d'abeille/Honeycomb face

	Suggérée Suggested	Mesurée / Measured
a	279	273
b	330	351
c	432	432
d	533	530
e	838	838



Vue de Haut / Top View



Transports Canada
C.E.V.A.

Transports Canada
M.V.T.C.

COLLISION LATÉRALE
RECHERCHE

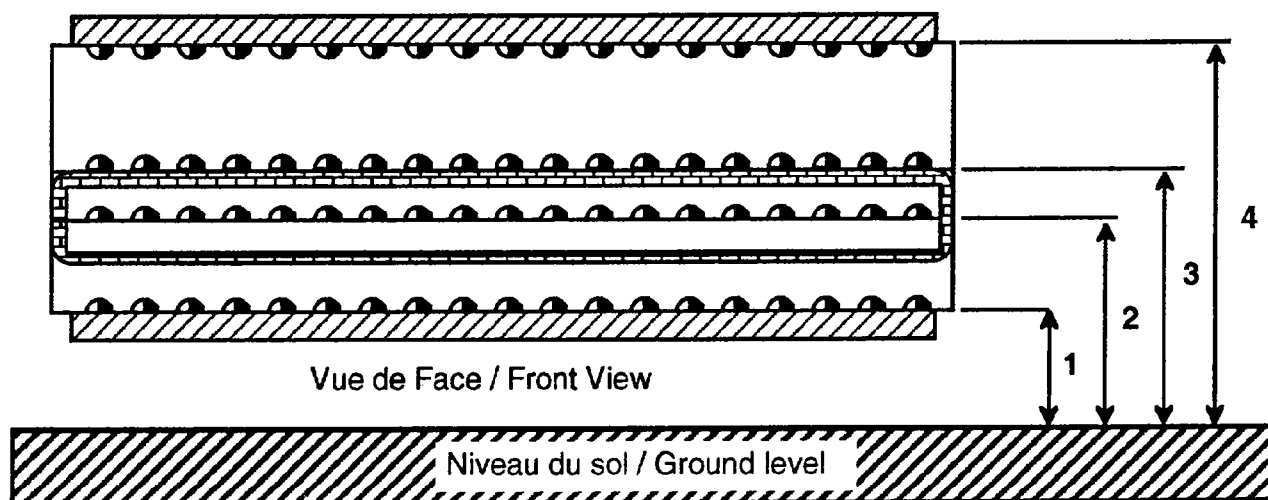
SIDE IMPACT
RESEARCH

22

Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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MESURES DU NID D'ABEILLE / HONEYCOMB FACE MEASUREMENTS

Niveau 4 @ Haut de la face / Level 4 @ Top of stack	=	837	mm.	} Au-dessus du sol Above ground level
Niveau 3 @ Milieu du Nid d'Abeille / Level 3 @ Mid stack	=	533	mm.	
Niveau 2 @ Mi-face du pare-choc / Level 2 @ Mid bumper	=	431	mm.	
Niveau 1 @ Bas de la face / Level 1 @ Bottom of stack	=	277	mm.	



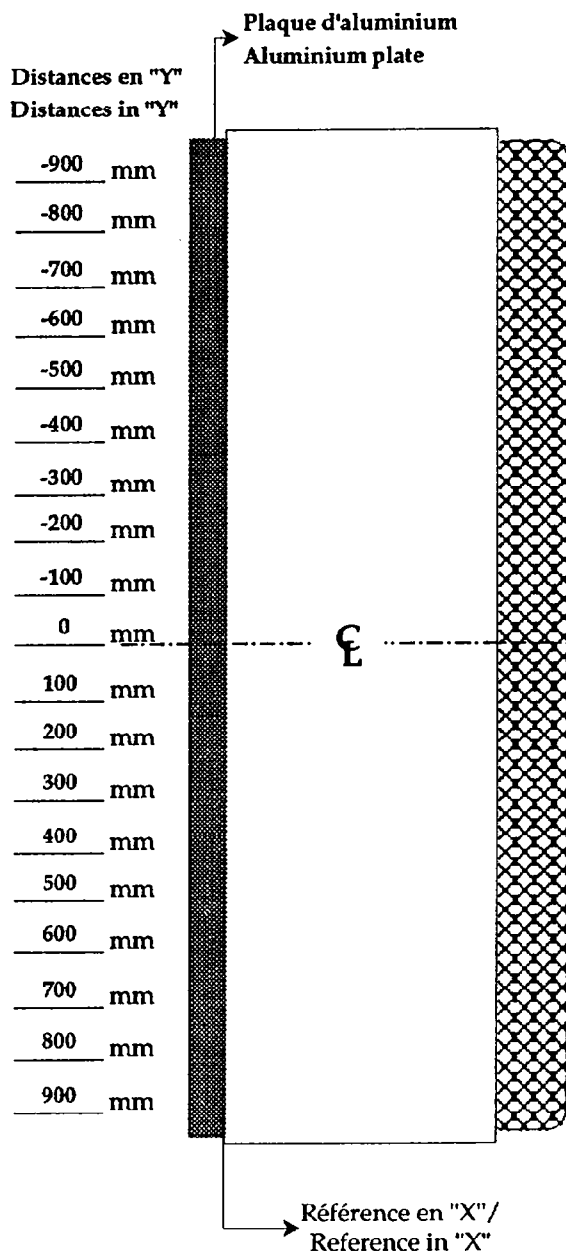


Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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MESURES DE LA FACE DÉFORMABLE DU VÉHICULE BÉLIER
MDB DEFORMABLE FACE MEASUREMENTS

NIVEAU 1 / LEVEL 1

Profil extérieur à _____ 277 mm Pre-test au-dessus du sol
Exterior profile at _____ 295 mm Post-test above ground level



Profil Pré-test Pre-test profile	Profil Post-test Post-test profile	Différence Variation
- mm	- mm	- mm
-382 mm	-320 mm	-62 mm
-382 mm	-305 mm	-77 mm
-382 mm	-305 mm	-77 mm
-382 mm	-315 mm	-67 mm
-382 mm	-325 mm	-57 mm
-382 mm	-335 mm	-47 mm
-382 mm	-340 mm	-42 mm
-382 mm	-360 mm	-22 mm
-382 mm	-370 mm	-12 mm
-382 mm	-372 mm	-10 mm
-382 mm	-373 mm	-9 mm
-382 mm	-367 mm	-15 mm
-382 mm	-363 mm	-19 mm
-382 mm	-355 mm	-27 mm
-382 mm	-330 mm	-52 mm
-382 mm	-315 mm	-67 mm
-382 mm	-280 mm	-102 mm
- mm	- mm	- mm

Point de référence / Reference point

Centre en Y de la plaque d'aluminium au niveau du sol
Aluminium plate centre in Y axis at ground level

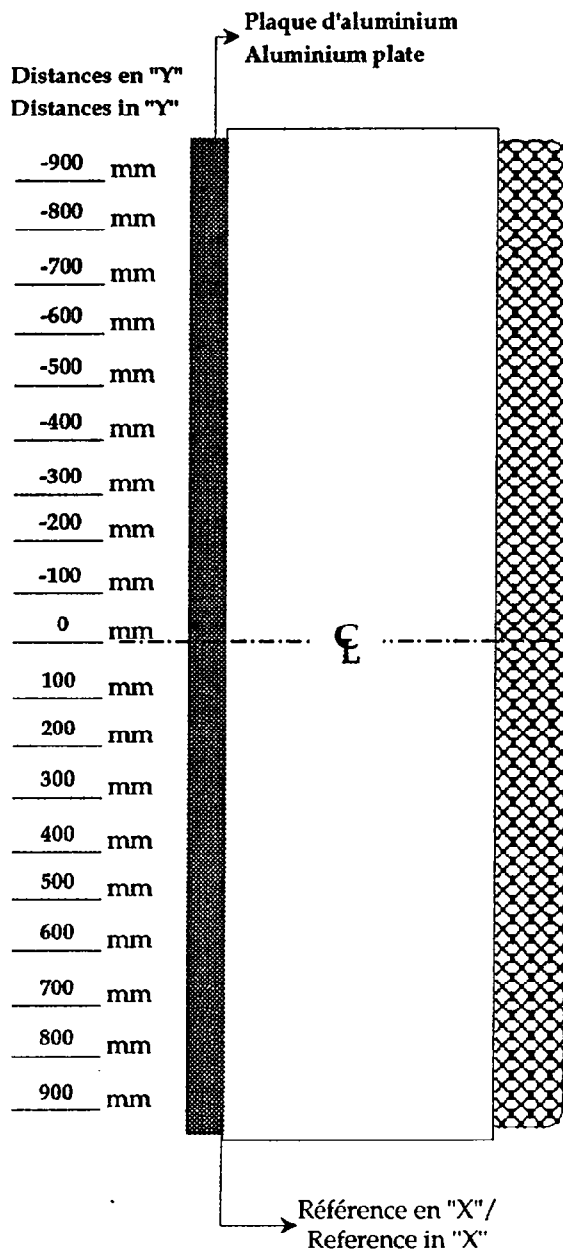


Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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MESURES DE LA FACE DÉFORMABLE DU VÉHICULE BÉLIER
MDB DEFORMABLE FACE MEASUREMENTS

NIVEAU 2 / LEVEL 2

Profil extérieur à _____ 431 mm Pre-test au-dessus du sol
Exterior profile at _____ 420 mm Post-test above ground level



Profil Pré-test Pre-test profile	Profil Post-test Post-test profile	Différence Variation
- mm	- mm	- mm
-474 mm	-352 mm	-122 mm
-485 mm	-400 mm	-85 mm
-485 mm	-420 mm	-65 mm
-485 mm	-430 mm	-55 mm
-485 mm	-434 mm	-51 mm
-485 mm	-439 mm	-46 mm
-485 mm	-442 mm	-43 mm
-485 mm	-448 mm	-37 mm
-485 mm	-447 mm	-38 mm
-485 mm	-440 mm	-45 mm
-485 mm	-428 mm	-57 mm
-485 mm	-442 mm	-43 mm
-485 mm	-451 mm	-34 mm
-485 mm	-457 mm	-28 mm
-485 mm	-458 mm	-27 mm
-485 mm	-450 mm	-35 mm
-474 mm	-432 mm	-42 mm
- mm	- mm	- mm

Point de référence / Reference point

Centre en Y de la plaque d'aluminium au niveau du sol
Aluminium plate centre in Y axis at ground level

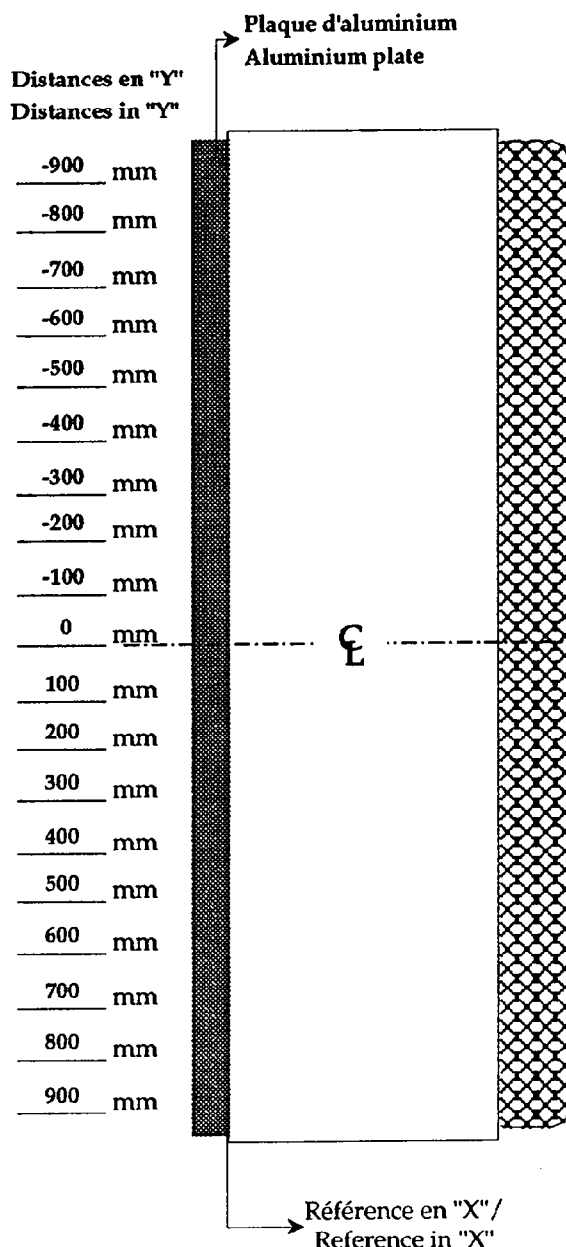


Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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MESURES DE LA FACE DÉFORMABLE DU VÉHICULE BÉLIER
MDB DEFORMABLE FACE MEASUREMENTS

NIVEAU 3 / LEVEL 3

Profil extérieur à 533 mm Pre-test au-dessus du sol
Exterior profile at 540 mm Post-test above ground level



Profil Pré-test Pre-test profile	Profil Post-test Post-test profile	Différence Variation
- mm	- mm	- mm
-382 mm	-312 mm	-70 mm
-382 mm	-330 mm	-52 mm
-382 mm	-341 mm	-41 mm
-382 mm	-348 mm	-34 mm
-382 mm	-353 mm	-29 mm
-382 mm	-358 mm	-24 mm
-382 mm	-360 mm	-22 mm
-382 mm	-363 mm	-19 mm
-382 mm	-366 mm	-16 mm
-382 mm	-365 mm	-17 mm
-382 mm	-359 mm	-23 mm
-382 mm	-363 mm	-19 mm
-382 mm	-369 mm	-13 mm
-382 mm	-375 mm	-7 mm
-382 mm	-378 mm	-4 mm
-382 mm	-376 mm	-6 mm
-382 mm	-365 mm	-17 mm
- mm	- mm	- mm

Point de référence / Reference point

Centre en Y de la plaque d'aluminium au niveau du sol
Aluminium plate centre in Y axis at ground level

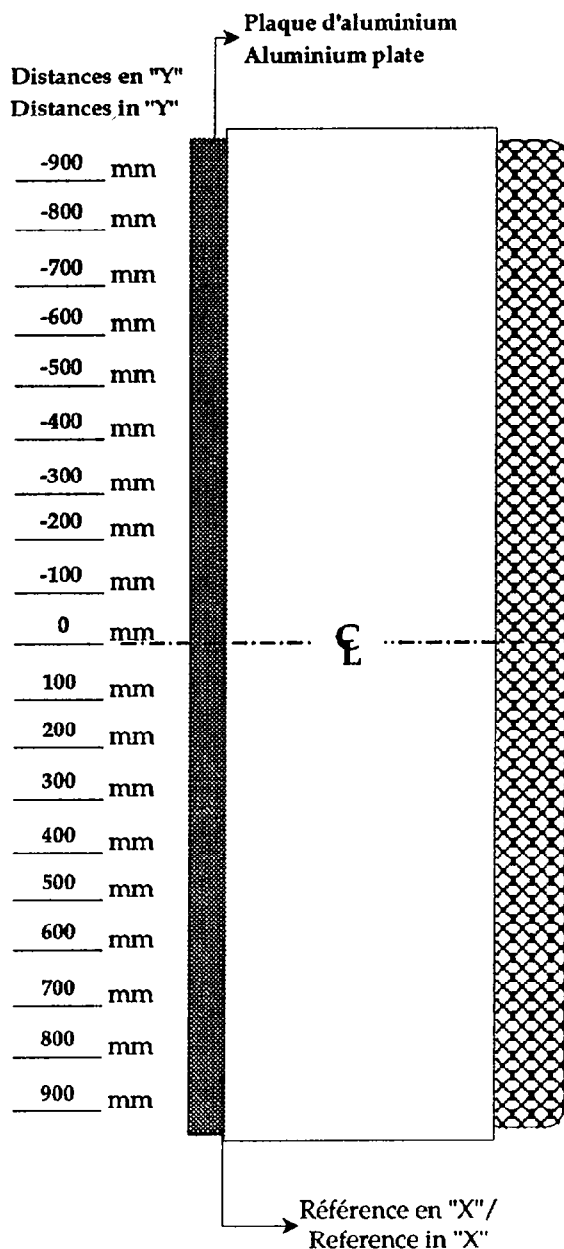


Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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MESURES DE LA FACE DÉFORMABLE DU VÉHICULE BÉLIER
MDB DEFORMABLE FACE MEASUREMENTS

NIVEAU 4 / LEVEL 4

Profil extérieur à 837 mm Pre-test au-dessus du sol
Exterior profile at 834 mm Post-test above ground level



Profil Pré-test Pre-test profile	Profil Post-test Post-test profile	Différence Variation
- mm	- mm	- mm
-382 mm	-240 mm	-142 mm
-382 mm	-300 mm	-82 mm
-382 mm	-328 mm	-54 mm
-382 mm	-348 mm	-34 mm
-382 mm	-364 mm	-18 mm
-382 mm	-370 mm	-12 mm
-382 mm	-372 mm	-10 mm
-382 mm	-375 mm	-7 mm
-382 mm	-378 mm	-4 mm
-382 mm	-380 mm	-2 mm
-382 mm	-380 mm	-2 mm
-382 mm	-384 mm	2 mm
-382 mm	-386 mm	4 mm
-382 mm	-388 mm	6 mm
-382 mm	-387 mm	5 mm
-382 mm	-377 mm	-5 mm
-382 mm	-218 mm	-164 mm
- mm	- mm	- mm

Point de référence / Reference point

Centre en Y de la plaque d'aluminium au niveau du sol
Aluminium plate centre in Y axis at ground level

SECTION 3
MANNEQUINS - DUMMIES



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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DÉTERMINATION DU POINT "H" AVEC LE MANNEQUIN "3-D", MESURES PROVENANT DU NUMERISEUR SONIQUE
SEAT "H" POINT DETERMINED WITH THE H-POINT MACHINE, MEASURES FROM SONIC DIGITIZER

DESCRIPTION / DESCRIPTION	Conducteur / Driver				Passager / Passenger		
Type de siège / Seat type	Banquette / Bench				Banquette / Bench		
Nombre de crans d'ajustement de dossier Number of notches for adjustable seat back	6ième / 6th Cran / Notch				N/A Cran / Notch		
Sondes / Probes #	X mm	Y mm	Z mm	#	X mm	Y mm	Z mm
Loquet de porte / door latch	- 2641	-779	506	-	3579	-793	706
Point-H / H-Point	- 2445	-543	462	-	3350	-545	444
Rotule / Knee joint	- 2045	-574	574	-	2939	-580	523

MESURES DE RÉFÉRENCE DU MANNEQUIN "3-D"
REFERENCE MEASUREMENTS OF "3-D" MACHINE

DESCRIPTION / DESCRIPTION	Conducteur / Driver		Passager / Passenger	
Espacement du genou gauche vs LC du 3-D Left knee spacing vs CL of 3-D machine	77	mm	122	mm
Espacement du genou droit vs LC du 3-D Right knee spacing vs CL of 3-D machine	207	mm	108	mm
Cheville à cheville (c-c) Ankle to ankle (c-c)	278	mm	217	mm
Angle du dossier du "3-D" Back pan angle	25	deg.	21.3	deg.
Angle de la cuvette de siège du "3-D" Seat Pan Angle	15.6	deg.	10.4	deg.
Angle du genou gauche Left knee angle	136	deg.	145	deg.
Angle du genou droit Right knee angle	135	deg.	45	deg.
Angle de la cheville gauche Left ankle angle	132	deg.	135	deg.
Angle de la cheville droite Right ankle angle	97	deg.	136	deg.



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMIN A 1991	T.C. N° T.C. No.	91-005
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POSITIONNEMENT DES MANNEQUINS (Suite) / MEASUREMENTS OF DUMMY POSITIONS (Continued)

DESCRIPTION / DESCRIPTION :		MESURES / MEASUREMENTS:																	
CONDUCTEUR/DRIVER : BIOSID Angle longitudinal du pelvis / Longitudinal pelvis angle: 24.0° Angle latéral du pelvis / Lateral pelvis angle: -0.5°		toutes les mesures sont en mm / all measurements are in mm																	
PASSAGER/PASSENGER : EUROSID 1 Angle longitudinal du pelvis / Longitudinal pelvis angle: 12.6° Angle latéral du pelvis / Lateral pelvis angle: +0.1°		D i g i t i z e r	P r o b e s	Conducteur / Driver			D i g i t i z e r	P r o b e s	Passager / Passenger										
<table><tr><td>G/L</td><td>C/C</td><td>D/R</td></tr><tr><td>X</td><td></td><td></td></tr></table>				G/L	C/C	D/R			X			<table><tr><td>RANGÉE / ROW</td><td>G/L</td><td>C/C</td><td>D/R</td></tr><tr><td>2</td><td>X</td><td></td><td></td></tr></table>			RANGÉE / ROW	G/L	C/C	D/R	2
G/L	C/C	D/R																	
X																			
RANGÉE / ROW	G/L	C/C	D/R																
2	X																		
				X	Y	Z			X	Y	Z								
Fenêtre à fenêtre / Window to window :		-			1654		-			1654									
Centre du véhicule / Vehicle center		-			0		-			0									
Seuil de la portière au centre du loquet / Door sill to latch center :		-				231	-				423								
Centre du volant / Steering wheel center		-		2148	-353	793	-												
Mouvement du lacet / Yaw movement		-		4			-		3										
Cible de tête / Head target :		-		2593	-424	1127	-		3464	-423	1140								
Point-H / H-Point :		-		2443	-520	453	-		3348	-518	435								
Rotule / Knee joint :		-		2055	-473	584	-		3012	-498	651								

Point de référence : Centre transversal du véhicule, au point le plus avancé, au niveau du sol. Selon SAE J182a.
Reference point: Transversal centre of the vehicle, at the foremost point and at ground level. As SAE J182a.

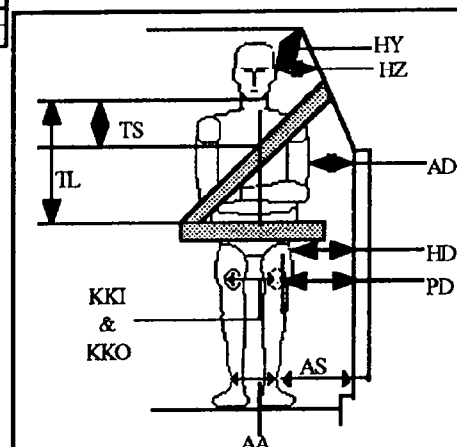
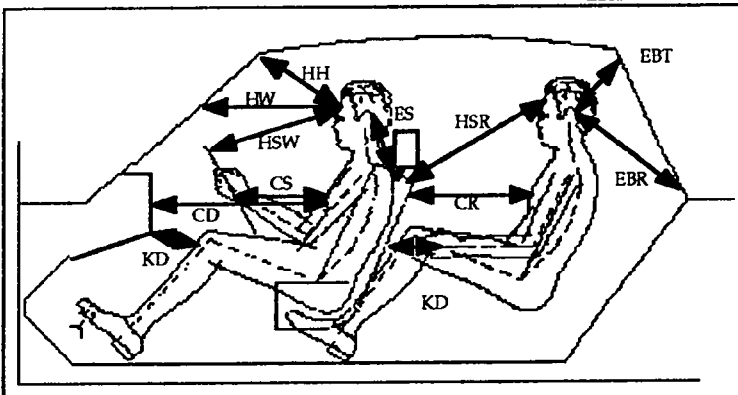
REMARQUES/COMMENTS:



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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COTES DE LOCALISATION DES MANNEQUINS
DUMMY LOCATION DATA

	G/L	C	D/R
C/D	x		
PAS	x		



DESCRIPTION	CODE	CONDUCTEUR DRIVER		PASSAGER PASSENGER		
De cheville à cheville (boulon extérieur) Ankle to ankle (exterior bolt)	AA	300	mm	265	mm	
Genou à genou (plaque) Knee to knee (plate)	Intérieur / Interior Extérieur / Exterior	KKI	150	mm	120	mm
		KKO	285	mm	280	mm
De la cheville jusqu'au seuil de porte (horizontal.) Ankle to door sill (horizontal)	AS	250	mm	194	mm	
Genoux au tableau de bord ou au siège (minimum) Knees to dash or to seat back (minimum)	KDL	85	mm	170	mm	
	KDR	90	mm	170	mm	
Sternum au tableau de bord (siège avant) (horizontal) Sternum to dash (front seat) (horizontal)	CD	580	mm	N/A	mm	
Haut du sternum au centre du moyeu du volant Sternum top to steering hub center	CS	370	mm	N/A	mm	
Milieu du front jusqu'au pare-brise (horizontalement) Mid forehead to windshield (horizontal)	HW	490	mm	N/A	mm	
Milieu du front jusqu'au haut du pare-brise Mid forehead to windshield header	HH	380	mm	N/A	mm	
Tête à la jante du volant de direction (haut) Head to steering wheel rim (top)	HSW	470	mm	N/A	mm	
Haut de l'oreille jusqu'au début du toit Ear top to edge roof	HY	170	mm	150	mm	
Haut de l'oreille au haut du siège avant Ear top to front seat top	ES	325	mm	700	mm	
Menton au haut de la ceinture sous-abdominale (vert.) Chin to lap belt upper edge (vertical)	TL	450	mm	450	mm	
Menton au haut de la ceinture baudrier (verticalement) Chin to thorax belt upper edge (vertical)	TS	170	mm	170	mm	
Haut de l'oreille à la fenêtre latérale(horizontalement) Ear top to side window (horizontal)	HZ	300	mm	N/A	mm	
La rotule à la porte (horiz., plaque du genou) Patella to door (horizontal, knee plate)	PD	275	mm	254	mm	
Du point H à la porte (horizontalement) H-point to door (horizontal)	HD	140	mm	142	mm	
Du milieu du bras à la porte (horizontalement) Mid upper arm to door (horizontal)	AD	142	mm	110	mm	
Haut du sternum jusqu'au siège avant Sternum top to front seat	CR			535	mm	
Milieu du front jusqu'au siège avant Mid forehead to front seat	HSR	N/A	mm	610	mm	
Haut de l'oreille jusqu'à la fenêtre arrière (bas) Ear top to rear window (bottom)	EBR	N/A	mm	700	mm	
Haut de l'oreille jusqu'à la fenêtre arrière (haut) Ear top to rear window (top)	EBT	N/A	mm	220	mm	



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No.	91-005
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POINTS DE CONTACT VISIBLES DU MANNEQUIN / VISIBLE DUMMY CONTACT POINTS

	CONDUCTEUR / DRIVER	PASSAGER / PASSENGER
Tête / Head	FENÊTRE PORTE AVANT GAUCHE LEFT FRONT DOOR WINDOW	PILIER "C" PRÈS DU DÉBUT DU TOIT "C" PILLAR NEAR THE EDGE OF ROOF
Épaule / Shoulder	INTÉRIEUR PORTE AVANT GAUCHE INTERIOR OF LEFT FRONT DOOR	INTÉRIEUR PORTE ARRIÈRE GAUCHE INTERIOR OF LEFT REAR DOOR
Cage Thoracique / Chest	INTÉRIEUR PORTE AVANT GAUCHE INTERIOR OF LEFT FRONT DOOR	INTÉRIEUR PORTE ARRIÈRE GAUCHE INTERIOR OF LEFT REAR DOOR
Abdomen / Abdomen	INTÉRIEUR PORTE AVANT GAUCHE INTERIOR OF LEFT FRONT DOOR	INTÉRIEUR PORTE ARRIÈRE GAUCHE INTERIOR OF LEFT REAR DOOR
Bassin / Pelvis	INTÉRIEUR PORTE AVANT GAUCHE INTERIOR OF LEFT FRONT DOOR	INTÉRIEUR PORTE ARRIÈRE GAUCHE INTERIOR OF LEFT REAR DOOR
Point "H" / "H" point	INTÉRIEUR PORTE AVANT GAUCHE INTERIOR OF LEFT FRONT DOOR	INTÉRIEUR PORTE ARRIÈRE GAUCHE INTERIOR OF LEFT REAR DOOR

DOMMAGES AUX PORTIÈRES APRÈS ESSAI / DOOR DAMAGES POST-TEST

PORTIÈRE AVANT GAUCHE LEFT FRONT DOOR	CHARNIÈRE SUPÉRIEURE / UPPER HINGE	AUCUNE SÉPARATION / NO SEPARATION
	CHARNIÈRE INFÉRIEURE / LOWER HINGE	AUCUNE SÉPARATION / NO SEPARATION
	LOQUET SUPÉRIEUR / UPPER LATCH	AUCUNE SÉPARATION / NO SEPARATION
	LOQUET INFÉRIEUR / LOWER LATCH	AUCUNE SÉPARATION / NO SEPARATION
PORTIÈRE ARRIÈRE GAUCHE LEFT REAR DOOR	CHARNIÈRE SUPÉRIEURE / UPPER HINGE	AUCUNE SÉPARATION / NO SEPARATION
	CHARNIÈRE INFÉRIEURE / LOWER HINGE	AUCUNE SÉPARATION / NO SEPARATION
	LOQUET SUPÉRIEUR / UPPER LATCH	AUCUNE SÉPARATION / NO SEPARATION
	LOQUET INFÉRIEUR / LOWER LATCH	AUCUNE SÉPARATION / NO SEPARATION
PORTIÈRE AVANT DROITE RIGHT FRONT DOOR	CHARNIÈRE SUPÉRIEURE / UPPER HINGE	AUCUNE SÉPARATION / NO SEPARATION
	CHARNIÈRE INFÉRIEURE / LOWER HINGE	AUCUNE SÉPARATION / NO SEPARATION
	LOQUET SUPÉRIEUR / UPPER LATCH	AUCUNE SÉPARATION / NO SEPARATION
	LOQUET INFÉRIEUR / LOWER LATCH	AUCUNE SÉPARATION / NO SEPARATION
PORTIÈRE ARRIÈRE DROITE RIGHT REAR DOOR	CHARNIÈRE SUPÉRIEURE / UPPER HINGE	AUCUNE SÉPARATION / NO SEPARATION
	CHARNIÈRE INFÉRIEURE / LOWER HINGE	AUCUNE SÉPARATION / NO SEPARATION
	LOQUET SUPÉRIEUR / UPPER LATCH	AUCUNE SÉPARATION / NO SEPARATION
	LOQUET INFÉRIEUR / LOWER LATCH	AUCUNE SÉPARATION / NO SEPARATION
HAYON ARRIÈRE HATCHBACK OU / OR COFFRE ARRIÈRE REAR TRUNK	CHARNIÈRE GAUCHE / LEFT HINGE	AUCUNE SÉPARATION / NO SEPARATION
	CHARNIÈRE DROITE / RIGHT HINGE	AUCUNE SÉPARATION / NO SEPARATION
	LOQUET CENTRAL / CENTRAL LATCH	AUCUNE SÉPARATION / NO SEPARATION

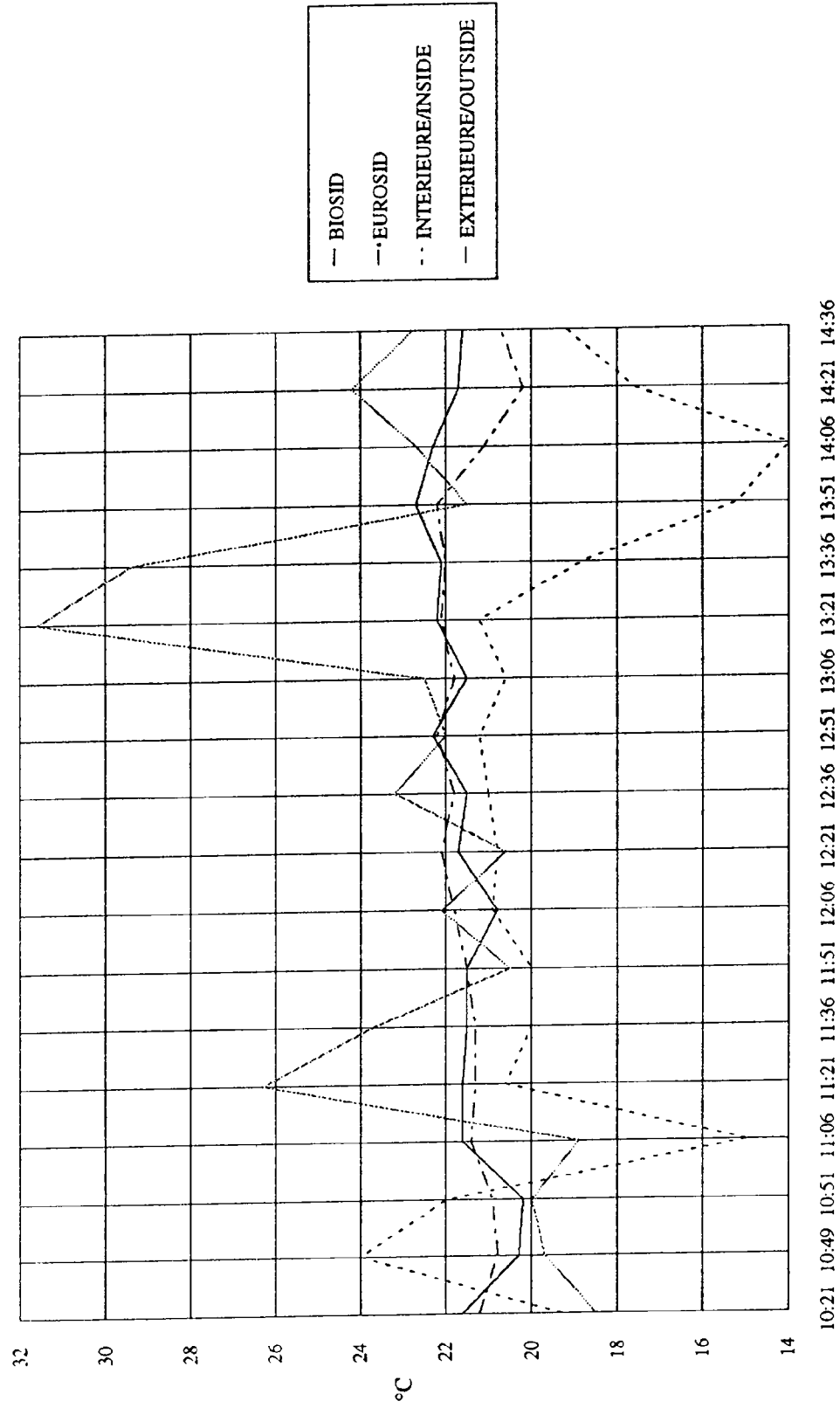
COMMENTAIRES - COMMENTS:

AUCUNE OUVERTURE DES PORTIÈRES DURANT LA COLLISION
NO DOOR OPENING DURING THE CRASH

SECTION 4

DONNÉES DES TEMPÉRATURES - TEMPERATURE DATA

Temperature TC 91-005



SECTION 5

ANNEXE - ANNEXE

ANNEXE 1 - ANNEX 1

Canaux d'acquisition - Acquisition channelsR1 à / to R10

Légende - Legend.....R11 à / to R12

Canaux de données - Data channelsG1 à / to G39

Critère de blessure à la tête - Head injury criteriaH1 à / to H3

Accélération de la tête > 80 g - Head acceleration > 80gN1 à / to N3

Indice de traumatisme thoracique - Thorax trauma index.....T1 à / to T5

Critère de blessures des tissus mous - Viscous criterionV1 à / to V8

Accélération du pelvis 130 g - Pelvis acceleration 130 gP1 à / to P2

Commentaires - CommentsC1 à / to C7

NOM DU CLIENT
CLIENT NAME

TRANSPORTS CANADA

TITRE DU PROJET
PROJECT TITLE

COLLATA/W U.S.MDB 27DEG.

TYPE DE VEHICULE
TYPE OF VEHICLE

CHEVLUMINA 91

NO DE TC
TC NUMBER

91-005

NO DE CONTRAT
CONTRACT NO

92-0535

INGENIEUR / ENGINEER

ROBERT MALO

TECHNOLOGUE / TECHNOLOGIST

ALBERT GODARD



Transports Canada
C.E.V.A.

Transport Canada
M.V.T.C.

ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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EXTREMUMS

CANAUX D'ACQUISITION / ACQUISITION CHANNELS

#C	NOM DU CANAL	CHANNEL NAME	UNIT.	MAX	MIN	TMAX	TMIN	PAGE
1	PASS #1 TETE X	PASS #1 HEAD X	<G>	73.54	-36.33	48.6	48.2	G-29
2	PASS #1 TETE Y	PASS #1 HEAD Y	<G>	224.24	-26.00	48.3	152.5	G-29
3	PASS #1 TETE Z	PASS #1 HEAD Z	<G>	120.80	-32.13	48.2	56.4	G-29
4	PAS1 HT EPINE AY	PAS1 UP SPINE AY	<G>	44.97	-3.20	53.7	119.7	G-30
5	PAS1 HT EPINE AZ	PAS1 UP SPINE AZ	<G>	7.44	-7.89	52.5	45.9	G-30
6	PAS1 HT EPINE AX	PAS1 UP SPINE AX	<G>	5.54	-18.67	85.1	54.3	G-30
7	PAS1 HT COTE DPL	PAS1 UP RIB DPL	<mm>	20.00	-2.64	60.1	357.1	G-31
8	PAS1 CT COTE DPL	PAS1 MD RIB DPL	<mm>	23.09	-0.56	59.9	83.1	G-31
9	PAS1 BA COTE DPL	PAS1 LO RIB DPL	<mm>	21.45	-0.78	59.5	297.3	G-31
10	PAS1 HT COTE AY1	PAS1 UP RIB AY1	<G>	196.93	-61.12	81.1	82.7	G-32
11	PAS1 CT COTE AY1	PAS1 MD RIB AY1	<G>	180.34	-46.97	82.9	84.3	G-32
12	PAS1 BA COTE AY1	PAS1 LO RIB AY1	<G>	183.32	-55.51	82.3	83.7	G-32
13	PAS1 HT COTE AY2	PAS1 UP RIB AY2	<G>	218.83	-57.29	81.1	82.5	G-33
14	PAS1 CT COTE AY2	PAS1 MD RIB AY2	<G>	183.59	-38.55	82.9	84.3	G-33
15	PAS1 BA COTE AY2	PAS1 LO RIB AY2	<G>	162.61	-59.79	82.3	83.7	G-33
16	PAS1 BA EPINE AY	PAS1 LO SPINE AY	<G>	57.81	-9.51	48.9	82.3	G-35
17	PAS1 F FRONT ABD	PAS1 ABD FRONT F	<N>	1225.18	-22.40	44.6	16.7	G-34
18	PAS1 F CT ABDOM	PAS1 ABD MIDDLE F	<N>	2350.53	-68.30	44.6	240.1	G-34
19	PAS1 F ARR ABDOM	PAS1 ABD REAR F	<N>	756.05	-78.90	47.8	215.3	G-34
20	PASS #1 PELVIS Z	PASS #1 PELVIS Z	<G>	5.60	-16.54	80.1	48.3	G-36
21	PASS #1 PELVIS Y	PASS #1 PELVIS Y	<G>	60.42	-25.48	42.5	57.3	G-36
22	PASS #1 PELVIS X	PASS #1 PELVIS X	<G>	5.57	-43.69	50.7	43.5	G-36
23	PASS #1 PUBIS FY	PASS #1 PUBIS FY	<N>	5964.81	-349.87	44.3	25.0	G-37
24	VIDE	EMPTY						
25	CHAU S-ABDOM	DRIVER LAP BELT	<N>	385.94	-407.17	105.3	24.1	G-28
26	CHAU BAUDRIER	DRIV SHOULD BELT	<N>	5307.97	101.84	51.7	0.3	G-28
27	PASS #1 S-ABDOM	PASS #1 LAP BELT	<N>	1290.82	-315.60	81.5	4.9	G-38
28	PASS #1 BAUDRIER	PAS1 SHOULD BELT	<N>	526.38	-88.45	51.3	60.3	G-38

Transports Canada
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ESSAI DE COLLISION

COLL.LATA/W USMDB 27DEG.

BARRIER IMPACT TEST

COLL.LATA/W USMDB 27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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EXTREMUMS

CANAUX D'ACQUISITION / ACQUISITION CHANNELS

#C	NOM DU CANAL	CHANNEL NAME	UNIT.	MAX	MIN	TMAX	TMIN	PAGE
29	CHAUFFEUR TETE X	DRIVER HEAD X	<G>	14.65	-20.75	209.1	86.2	G-10
30	CHAUFFEUR TETE Y	DRIVER HEAD Y	<G>	38.33	-22.71	60.6	109.0	G-10
31	CHAUFFEUR TETE Z	DRIVER HEAD Z	<G>	47.85	-6.71	53.7	77.1	G-10
32	CHAU EPAU G ACCY	DRV L-SHLD ACCY	<G>	83.20	-34.25	28.3	67.1	G-11
33	CHAU EPAULE G FX	DRV L-SHLDER FX	<N>	161.92	-232.40	65.5	54.3	G-12
34	CHAU EPAULE G FY	DRV L-SHLDER FY	<N>	3177.03	-175.52	46.9	120.5	G-12
35	CHAU EPAULE G FZ	DRV L-SHLDER FZ	<N>	850.37	-1435.24	117.1	38.7	G-12
36	CHAU EPAU G DPLY	DRV L-SHLD DPLY	<mm>	31.57	-1.08	47.7	25.3	G-13
37	CHAU HT EPINE AX	DRV UP SPINE AX	<G>	13.64	-11.06	53.3	73.1	G-14
38	CHAU HT EPINE AY	DRV UP SPINE AY	<G>	58.49	-23.18	45.7	64.1	G-14
39	CHAU H-EPINE AY1	DRV U-SPINE AY1	<G>	65.57	-8.37	46.1	62.1	G-15
40	CHAU HT EPINE AZ	DRV UP SPINE AZ	<G>	0.71	-19.36	0.1	56.9	G-14
41	CHAU HT COTE DPL	DRV UP RIB DPL	<mm>	30.85	-2.96	46.5	116.7	G-17
42	CHAU CT COTE DPL	DRV MD RIB DPL	<mm>	34.99	-4.81	45.3	84.5	G-17
43	CHAU BA COTE DPL	DRV LO RIB DPL	<mm>	44.98	-0.38	45.5	357.3	G-17
44	CHAU HT COTE AY1	DRV UP RIB AY1	<G>	81.71	-30.23	38.9	31.7	G-18
45	CHAU CT COTE AY1	DRV MD RIB AY1	<G>	111.69	-61.81	38.9	32.3	G-18
46	CHAU BA COTE AY1	DRV LO RIB AY1	<G>	139.53	-102.80	38.5	31.9	G-18
47	CHAU HT COTE AY2	DRV UP RIB AY2	<G>	96.59	-20.90	38.7	31.5	G-19
48	CHAU CT COTE AY2	DRV MD RIB AY2	<G>	123.79	-58.25	38.7	32.3	G-19
49	CHAU BA COTE AY2	DRV LO RIB AY2	<G>	140.47	-103.88	27.9	31.7	G-19
50	CHAU BA EPINE AX	DRV LO SPINE AX	<G>	9.44	-16.25	35.7	50.9	G-23
51	CHAU BA EPINE AY	DRV LO SPINE AY	<G>	47.74	-17.23	38.1	64.5	G-23
52	CHAU B-EPINE AY1	DRV L-SPINE AY1	<G>	44.66	-20.85	38.1	64.5	G-16
53	CHAU BA EPINE AZ	DRV LO SPINE AZ	<G>	5.83	-18.29	120.1	36.9	G-23
54	CHAU HT CT AB AY	DRV UP RIB AB Y	<G>	207.58	-95.37	22.5	28.9	G-20
55	CHAU HTCT AB DPL	DRV URIB AB DPL	<mm>	57.12	-2.70	44.9	297.3	G-22
56	CHAU BA CT AB AY	DRV LO RIB AB Y	<G>	241.67	-115.56	23.7	28.3	G-21



Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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EXTREMUMS

CANALX D'ACQUISITION / ACQUISITION CHANNELS

#C	NOM DU CANAL	CHANNEL NAME	UNIT.	MAX	MIN	TMAX	TMIN	PAGE
57	VEH LOC#1 AX	VEH LOC#1 AX	<G>	2.83	-5.17	55.7	22.9	G-2
58	VEH LOC#1 AY	VEH LOC#1 AY	<G>	22.12	-2.53	7.9	173.9	G-2
59	VEH LOC#1 AZ	VEH LOC#1 AZ	<G>	3.82	-3.45	63.3	22.9	G-2
60	VIDE	EMPTY						
61	TEMPS ZERO	TRIGGER TIME	Volt	9.02	-1.90	0.7	103.9	G-39
62	VEH LOC#2 AX	VEH LOC#2 AX	<G>	3.55	-4.56	51.9	33.1	G-3
63	VEH LOC#2 AY	VEH LOC#2 AY	<G>	19.82	-3.81	34.5	173.1	G-3
64	VEH LOC#2 AZ	VEH LOC#2 AZ	<G>	10.55	-11.57	46.7	25.5	G-3
65	VEH LOC#3 AX	VEH LOC#3 AX	<G>	2.20	-9.22	25.9	22.1	G-4
66	VEH LOC#3 AY	VEH LOC#3 AY	<G>	13.87	-9.15	44.1	124.3	G-4
67	VEH LOC#3 AZ	VEH LOC#3 AZ	<G>	7.64	-8.30	27.5	14.5	G-4
68	UNIAX VEH LOC#7	VEH UNIAX LOC#7	<G>	5.08	-5.10	54.5	32.1	G-1
69	VEH LOC#5 AY	VEH LOC#5 AY	<G>	40.50	0.87	25.7	60.3	G-5
70	VEH LOC#6 AY	VEH LOC#6 AY	<G>	426.13	-4.35	60.3	3.3	G-5
71	VEH LOC#8 AY	VEH LOC#8 AY	<G>	138.64	-97.12	9.7	15.7	G-6
72	VEH LOC#9 AY	VEH LOC#9 AY	<G>	153.14	-127.97	15.9	26.3	G-6
73	VEH LOC#4 AY	VEH LOC#4 AY	<G>	34.84	1.87	17.9	180.5	G-5
74	VEH LOC#10 AY	VEH LOC#10 AY	<G>	157.54	-40.99	7.9	25.1	G-6
75	VEH LOC#11 AY	VEH LOC#11 AY	<G>	154.87	-40.02	17.9	33.7	G-6
76	VIDE	EMPTY						
77	CHAU BACT AB DPL	DRM LRIB AB DPL	<mm>	50.11	-12.31	41.9	116.7	G-22
78	CHAU PELVIS X	DRMER PELVIS X	<G>	12.58	-7.58	41.5	83.3	G-24
79	CHAU PELVIS Y	DRMER PELVIS Y	<G>	80.62	-12.71	31.9	105.1	G-24
80	CHAU PELVIS Z	DRMER PELVIS Z	<G>	2.58	-14.16	29.7	36.1	G-24
81	CHAU PUBIS FY	DRM PUBIS FY	<N>	2944.55	-2623.86	44.8	67.1	G-26
82	CHAU SACRUM FY	DRM SACRUM FY	<N>	2028.60	-895.54	27.4	59.2	G-27
83	CHAU ILIAQ G FY	DRM LT ILIAC FY	<N>	3290.03	-842.18	35.3	56.7	G-25
84	VIDE	EMPTY						

Date de collision Date impacted	04-SEP-92	Vehicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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EXTREMUMS

CANALUX D'ACQUISITION / ACQUISITION CHANNELS

[illegible]

Date de collision Date impacted	04-SEP-92	Vehicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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EXTREMUMS

SOMMES VECTORIELLES / RESULTANTS

[illegible]

MOMENTS OCCIPITAUX / OCCIPITAL MOMENTS

[illegible]

Transports Canada
C.E.V.A.Transport Canada
M.V.T.C.

ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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CANALX D'ACQUISITION / ACQUISITION CHANNELS

#	NOM DU CANAL	CHANNEL NAME	PLEINE ECHELLE FULL SCALE	UNITES UNITS	FILTRE FILTER	PAGE
1	PASS #1 TETE X	PASS #1 HEAD X	-200.000	<G>	1000	G-29
2	PASS #1 TETE Y	PASS #1 HEAD Y	-250.000	<G>	1000	G-29
3	PASS #1 TETE Z	PASS #1 HEAD Z	-200.000	<G>	1000	G-29
4	PAS1 HT EPINE AY	PAS1 UP SPINE AY	150.000	<G>	180	G-30
5	PAS1 HT EPINE AZ	PAS1 UP SPINE AZ	50.000	<G>	180	G-30
6	PAS1 HT EPINE AX	PAS1 UP SPINE AX	50.000	<G>	180	G-30
7	PAS1 HT COTE DPL	PAS1 UP RIB DPL	-55.000	<mm>	180	G-31
8	PAS1 CT COTE DPL	PAS1 MD RIB DPL	-55.000	<mm>	180	G-31
9	PAS1 BA COTE DPL	PAS1 LO RIB DPL	-55.000	<mm>	180	G-31
10	PAS1 HT COTE AY1	PAS1 UP RIB AY1	750.000	<G>	180	G-32
11	PAS1 CT COTE AY1	PAS1 MD RIB AY1	750.000	<G>	180	G-32
12	PAS1 BA COTE AY1	PAS1 LO RIB AY1	750.000	<G>	180	G-32
13	PAS1 HT COTE AY2	PAS1 UP RIB AY2	750.000	<G>	180	G-33
14	PAS1 CT COTE AY2	PAS1 MD RIB AY2	750.000	<G>	180	G-33
15	PAS1 BA COTE AY2	PAS1 LO RIB AY2	750.000	<G>	180	G-33
16	PAS1 BA EPINE AY	PAS1 LO SPINE AY	250.000	<G>	180	G-35
17	PAS1 F FRONT ABD	PAS1 ABD FRONT F	6000.000	<N>	600	G-34
18	PAS1 F CT ABDOM	PAS1 ABD MIDDLE F	6000.000	<N>	600	G-34
19	PAS1 F ARR ABDOM	PAS1 ABD REAR F	6000.000	<N>	600	G-34
20	PASS #1 PELVIS Z	PASS #1 PELVIS Z	-150.000	<G>	180	G-36
21	PASS #1 PELVIS Y	PASS #1 PELVIS Y	-250.000	<G>	180	G-36
22	PASS #1 PELVIS X	PASS #1 PELVIS X	-150.000	<G>	180	G-36
23	PASS #1 PUBIS FY	PASS #1 PUBIS FY	20000.000	<N>	600	G-37
24	VIDE	EMPTY				
25	CHAU S-ABDOM	DRIVER LAP BELT	13344.661	<N>	60	G-28
26	CHAU BAUDRIER	DRV SHOULD BELT	13344.661	<N>	60	G-28
27	PASS #1 S-ABDOM	PASS #1 LAP BELT	13344.661	<N>	60	G-38
28	PASS #1 BAUDRIER	PAS1 SHOULD BELT	13344.661	<N>	60	G-38



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BARRIER IMPACT TEST

COLLATA/W U.S.MDB 27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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CANAUX D'ACQUISITION / ACQUISITION CHANNELS

#	NOM DU CANAL	CHANNEL NAME	PLEINE ECHELLE FULL SCALE	UNTES UNITS	FILTRE FILTER	PAGE
29	CHAUFFEUR TETE X	DRIVER HEAD X	-250.000	<G>	1000	G-10
30	CHAUFFEUR TETE Y	DRIVER HEAD Y	-500.000	<G>	1000	G-10
31	CHAUFFEUR TETE Z	DRIVER HEAD Z	-250.000	<G>	1000	G-10
32	CHAU EPAU G ACCY	DRM L-SHLD ACCY	750.000	<G>	180	G-11
33	CHAU EPAULE G FX	DRM L-SHLDER FX	2224.110	<N>	180	G-12
34	CHAU EPAULE G FY	DRM L-SHLDER FY	4448.220	<N>	180	G-12
35	CHAU EPAULE G FZ	DRM L-SHLDER FZ	2224.110	<N>	180	G-12
36	CHAU EPAU G DPLY	DRM L-SHLD DPLY	-75.000	<mm>	180	G-13
37	CHAU HT EPINE AX	DRM UP SPINE AX	500.000	<G>	180	G-14
38	CHAU HT EPINE AY	DRM UP SPINE AY	-500.000	<G>	180	G-14
39	CHAU H-EPINE AY1	DRM U-SPINE AY1	500.000	<G>	180	G-15
40	CHAU HT EPINE AZ	DRM UP SPINE AZ	-500.000	<G>	180	G-14
41	CHAU HT COTE DPL	DRM UP RIB DPL	-75.000	<mm>	180	G-17
42	CHAU CT COTE DPL	DRM MD RIB DPL	-75.000	<mm>	180	G-17
43	CHAU BA COTE DPL	DRM LO RIB DPL	-75.000	<mm>	180	G-17
44	CHAU HT COTE AY1	DRM UP RIB AY1	750.000	<G>	180	G-18
45	CHAU CT COTE AY1	DRM MD RIB AY1	750.000	<G>	180	G-18
46	CHAU BA COTE AY1	DRM LO RIB AY1	750.000	<G>	180	G-18
47	CHAU HT COTE AY2	DRM UP RIB AY2	750.000	<G>	180	G-19
48	CHAU CT COTE AY2	DRM MD RIB AY2	750.000	<G>	180	G-19
49	CHAU BA COTE AY2	DRM LO RIB AY2	750.000	<G>	180	G-19
50	CHAU BA EPINE AX	DRM LO SPINE AX	-500.000	<G>	180	G-23
51	CHAU BA EPINE AY	DRM LO SPINE AY	-500.000	<G>	180	G-23
52	CHAU B-EPINE AY1	DRM L-SPINE AY1	-500.000	<G>	180	G-16
53	CHAU BA EPINE AZ	DRM LO SPINE AZ	-500.000	<G>	180	G-23
54	CHAU HT CT AB AY	DRM UP RIB AB Y	750.000	<G>	180	G-20
55	CHAU HTCT AB DPL	DRM URIB AB DPL	-75.000	<mm>	180	G-22
56	CHAU BA CT AB AY	DRM LO RIB AB Y	750.000	<G>	180	G-21

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BARRIER IMPACT TEST

COLL.LATA/W U.S. MDB 27DEG

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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CANAUX D'ACQUISITION / ACQUISITION CHANNELS

#	NOM DU CANAL	CHANNEL NAME	PLEINE ECHELLE FULL SCALE	UNITES UNITS	FILTRE FILTER	PAGE
57	VEH LOC#1 AX	VEH LOC#1 AX	-100.000	<G>	60	G-2
58	VEH LOC#1 AY	VEH LOC#1 AY	100.000	<G>	60	G-2
59	VEH LOC#1 AZ	VEH LOC#1 AZ	100.000	<G>	60	G-2
60	VIDE	EMPTY				
61	TEMPS ZERO	TRIGGER TIME	10.000	Volt	1000	G-39
62	VEH LOC#2 AX	VEH LOC#2 AX	100.000	<G>	60	G-3
63	VEH LOC#2 AY	VEH LOC#2 AY	100.000	<G>	60	G-3
64	VEH LOC#2 AZ	VEH LOC#2 AZ	-100.000	<G>	60	G-3
65	VEH LOC#3 AX	VEH LOC#3 AX	-100.000	<G>	60	G-4
66	VEH LOC#3 AY	VEH LOC#3 AY	-500.000	<G>	60	G-4
67	VEH LOC#3 AZ	VEH LOC#3 AZ	-100.000	<G>	60	G-4
68	UNIAX VEH LOC#7	VEH UNIAX LOC#7	100.000	<G>	60	G-1
69	VEH LOC#5 AY	VEH LOC#5 AY	500.000	<G>	60	G-5
70	VEH LOC#6 AY	VEH LOC#6 AY	-500.000	<G>	60	G-5
71	VEH LOC#8 AY	VEH LOC#8 AY	-500.000	<G>	60	G-6
72	VEH LOC#9 AY	VEH LOC#9 AY	500.000	<G>	60	G-6
73	VEH LOC#4 AY	VEH LOC#4 AY	500.000	<G>	60	G-5
74	VEH LOC#10 AY	VEH LOC#10 AY	-500.000	<G>	60	G-6
75	VEH LOC#11 AY	VEH LOC#11 AY	500.000	<G>	60	G-6
76	VIDE	EMPTY				
77	CHAU BACT AB DPL	DRM LRIB AB DPL	-75.000	<mm>	180	G-22
78	CHAU PELVIS X	DRMER PELVIS X	500.000	<G>	180	G-24
79	CHAU PELVIS Y	DRMER PELVIS Y	500.000	<G>	180	G-24
80	CHAU PELVIS Z	DRMER PELVIS Z	-500.000	<G>	180	G-24
81	CHAU PUBIS FY	DRM PUBIS FY	-13344.661	<N>	600	G-26
82	CHAU SACRUM FY	DRM SACRUM FY	22241.000	<N>	600	G-27
83	CHAU ILIAQ G FY	DRM LT ILIAC FY	-15000.000	<N>	600	G-25
84	VIDE	EMPTY				



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BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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CANAUX D'ACQUISITION / ACQUISITION CHANNELS

#	NOM DU CANAL	CHANNEL NAME	PLEINE ECHELLE FULL SCALE	UNITES UNITS	FILTRE FILTER	PAGE
85	BMD LOC#1 AX	MDB LOC#1 AX	-100.000	<G>	60	G-7
86	BMD LOC#1 AY	MDB LOC#1 AY	-100.000	<G>	60	G-7
87	BMD LOC#1 AZ	MDB LOC#1 AZ	-100.000	<G>	60	G-7
88	BMD LOC#2 AX	MDB LOC#2 AX	100.000	<G>	60	G-8
89	BMD LOC#3 AX	MDB LOC#3 AX	100.000	<G>	60	G-9

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BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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LEGENDE

PASS #1 TETE X PASSAGER #1 TETE X
PASS #1 TETE Y PASSAGER #1 TETE Y
PASS #1 TETE Z PASSAGER #1 TETE Z
PAS1 HT EPINE AY PASSAGER #1 HAUT EPINE DORSALE AY
PAS1 HT EPINE AZ PASSAGER #1 HAUT EPINE DORSALE AZ
PAS1 HT EPINE AX PASSAGER #1 HAUT EPINE DORSALE AX
PAS1 HT COTE DPL PASSAGER #1 HAUT COTE DEPLACEMENT
PAS1 CT COTE DPL PASSAGER #1 CENTRE COTE DEPLACEMENT
PAS1 BA COTE DPL PASSAGER #1 BAS COTE DEPLACEMENT
PAS1 HT COTE AY1 PASSAGER #1 HAUT COTE AY1
PAS1 CT COTE AY1 PASSAGER #1 CENTRE COTE AY1
PAS1 BA COTE AY1 PASSAGER #1 BAS COTE AY1
PAS1 HT COTE AY2 PASSAGER #1 HAUT COTE AY2
PAS1 CT COTE AY2 PASSAGER #1 CENTRE COTE AY2
PAS1 BA COTE AY2 PASSAGER #1 BAS COTE AY2
PAS1 BA EPINE AY PASSAGER #1 BAS EPINE DORSALE AY
PAS1 F FRONT ABD PASSAGER #1 FORCE FRONTALE ABDOMINALE
PAS1 F CT ABDOM PASSAGER #1 FORCE CENTRALE ABDOMINALE
PAS1 F ARR ABDOM PASSAGER #1 FORCE ARRIERE ABDOMINALE
PASS #1 PELVIS Z PASSAGER #1 PELVIS Z
PASS #1 PELVIS Y PASSAGER #1 PELVIS Y
PASS #1 PELVIS X PASSAGER #1 PELVIS X
PASS #1 PUBIS FY PASSAGER #1 PUBIS FORCE Y
CHAU S-ABDOM CHAUFFEUR SOUS-ABDOMINAL
CHAU BAUDRIER CHAUFFEUR BAUDRIER
PASS #1 S-ABDOM PASSAGER #1 SOUS-ABDOMINAL
PASS #1 BAUDRIER PASSAGER #1 BAUDRIER
CHAUFFEUR TETE X CHAUFFEUR TETE X
CHAUFFEUR TETE Y CHAUFFEUR TETE Y
CHAUFFEUR TETE Z CHAUFFEUR TETE Z
CHAU EPAU G ACCY CHAUFFEUR EPAULE GAUCHE ACCELERATION Y
CHAU EPAULE G FX CHAUFFEUR EPAULE GAUCHE FORCE X
CHAU EPAULE G FY CHAUFFEUR EPAULE GAUCHE FORCE Y
CHAU EPAULE G FZ CHAUFFEUR EPAULE GAUCHE FORCE Z
CHAU EPAU G DPLY CHAUFFEUR EPAULE GAUCHE DEPLACEMENT Y
CHAU HT EPINE AX CHAUFFEUR HAUT EPINE DORSALE AX
CHAU HT EPINE AY CHAUFFEUR HAUT EPINE DORSALE AY
CHAU H-EPINE AY1 CHAUFFEUR HAUT EPINE AY1
CHAU HT EPINE AZ CHAUFFEUR HAUT EPINE DORSALE AZ
CHAU HT COTE DPL CHAUFFEUR HAUT COTE DEPLACEMENT
CHAU CT COTE DPL CHAUFFEUR CENTRE COTE DEPLACEMENT
CHAU BA COTE DPL CHAUFFEUR BAS COTE DEPLACEMENT
CHAU HT COTE AY1 CHAUFFEUR HAUT COTE AY1
CHAU CT COTE AY1 CHAUFFEUR CENTRE COTE AY1
CHAU BA COTE AY1 CHAUFFEUR BAS COTE AY1
CHAU HT COTE AY2 CHAUFFEUR HAUT COTE AY2
CHAU CT COTE AY2 CHAUFFEUR CENTRE COTE AY2
CHAU BA COTE AY2 CHAUFFEUR BAS COTE AY2
CHAU BA EPINE AX CHAUFFEUR BAS EPINE DORSALE AX
CHAU BA EPINE AY CHAUFFEUR BAS EPINE DORSALE AY
CHAU B-EPINE AY1 CHAUFFEUR BAS EPINE AY1
CHAU BA EPINE AZ CHAUFFEUR BAS EPINE DORSALE AZ
CHAU HT CT AB AY CHAUFFEUR HAUT COTE ABDOMINALE AY
CHAU HTCT AB DPL CHAUFFEUR HAUT COTE ABDOMINALE DEPLACEMENT
CHAU BA CT AB AY CHAUFFEUR BAS COTE ABDOMINALE AY
VEH LOC#1 AX VEHICULE LOCATION #1 AX
VEH LOC#1 AY VEHICULE LOCATION #1 AY
VEH LOC#1 AZ VEHICULE LOCATION #1 AZ
VEH LOC#2 AX VEHICULE LOCATION #2 AX
VEH LOC#2 AY VEHICULE LOCATION #2 AY

LEGEND

PASS #1 HEAD Y PASSENGER #1 HEAD X
PASS #1 HEAD X PASSENGER #1 HEAD Y
PASS #1 HEAD Z PASSENGER #1 HEAD Z
PAS1 UP SPINE AY PASSENGER #1 UPPER SPINE AY
PAS1 UP SPINE AZ PASSENGER #1 UPPER SPINE AZ
PAS1 UP SPINE AX PASSENGER #1 UPPER SPINE AX
PAS1 UP RIB DPL PASSENGER #1 UPPER RIB DISPLACEMENT
PAS1 MD RIB DPL PASSENGER #1 MIDDLE RIB DISPLACEMENT
PAS1 LO RIB DPL PASSENGER #1 LOWER RIB DISPLACEMENT
PAS1 UP RIB AY1 PASSENGER #1 UPPER RIB AY1
PAS1 MD RIB AY1 PASSENGER #1 MIDDLE RIB AY1
PAS1 LO RIB AY1 PASSENGER #1 LOWER RIB AY1
PAS1 UP RIB AY2 PASSENGER #1 UPPER RIB AY2
PAS1 MD RIB AY2 PASSENGER #1 MIDDLE RIB AY2
PAS1 LO RIB AY2 PASSENGER #1 LOWER RIB AY2
PAS1 LO SPINE AY PASSENGER #1 LOWER SPINE AY
PAS1 ABD FRONT F PASSENGER #1 FRONTAL ABDOMINAL LOAD
PAS1 ABD MIDL F PASSENGER #1 CENTRAL ABDOMINAL LOAD
PAS1 ABD REAR F PASSENGER #1 REAR ABDOMINAL LOAD
PAS1 PELVIS Z PASSENGER #1 PELVIS Z
PAS1 PELVIS Y PASSENGER #1 PELVIS Y
PAS1 PELVIS X PASSENGER #1 PELVIS X
PAS1 PUBIS FY PASSENGER #1 PUBIS LOAD Y
DRV LAP BELT DRIVER LAP BELT
DRV SHOULD BELT DRIVER SHOULDER BELT
PAS1 LAP BELT PASSENGER #1 LAP BELT
PAS1 SHOULD BELT PASSENGER #1 SHOULD BELT
DRIVER HEAD X DRIVER HEAD X
DRIVER HEAD Y DRIVER HEAD Y
DRIVER HEAD Z DRIVER HEAD Z
DRV L-SHLD ACCY DRIVER LEFT SHOULDER ACCELERATION Y
DRV L-SHLDER FX DRIVER LEFT SHOULDER LOAD X
DRV L-SHLDER FY DRIVER LEFT SHOULDER LOAD Y
DRV L-SHLDER FZ DRIVER LEFT SHOULDER LOAD Z
DRV L-SHLD DPLY DRIVER LEFT SHOULDER DISPLACEMENT Y
DRV UP SPINE AX DRIVER UPPER SPINE AX
DRV UP SPINE AY DRIVER UPPER SPINE AY
DRV U-SPINE AY1 DRIVER UPPER SPINE AY1
DRV UP SPINE AZ DRIVER UPPER SPINE AZ
DRV UP RIB DPL DRIVER UPPER RIB DISPLACEMENT
DRV MD RIB DPL DRIVER MIDDLE RIB DISPLACEMENT
DRV LO RIB DPL DRIVER LOWER RIB DISPLACEMENT
DRV UP RIB AY1 DRIVER UPPER RIB AY1
DRV MD RIB AY1 DRIVER MIDDLE RIB AY1
DRV LO RIB AY1 DRIVER LOWER RIB AY1
DRV UP RIB AY2 DRIVER UPPER RIB AY2
DRV MD RIB AY2 DRIVER MIDDLE RIB AY2
DRV LO RIB AY2 DRIVER LOWER RIB AY2
DRV LO SPINE AX DRIVER LOWER SPINE AX
DRV LO SPINE AY DRIVER LOWER SPINE AY
DRV U-SPINE AY1 DRIVER LOWER SPINE AY1
DRV LO SPINE AZ DRIVER LOWER SPINE AZ
DRV UP RIB AB Y DRIVER UPPER RIB ABDOMINAL AY
DRV URB AB DPL DRIVER UPPER RIB ABDOMINAL DISPLACEMENT
DRV LO RIB AB Y DRIVER LOWER RIB ABDOMINAL AY
VEH LOC#1 AX VEHICLE LOCATION #1 AX
VEH LOC#1 AY VEHICLE LOCATION #1 AY
VEH LOC#1 AZ VEHICLE LOCATION #1 AZ
VEH LOC#2 AX VEHICLE LOCATION #2 AX
VEH LOC#2 AY VEHICLE LOCATION #2 AY



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BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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LEGENDE

VEH LOC#2 AZ	VEHICULE LOCATION #2 AZ
VEH LOC#3 AX	VEHICULE LOCATION #3 AX
VEH LOC#3 AY	VEHICULE LOCATION #3 AY
VEH LOC#3 AZ	VEHICULE LOCATION #3 AZ
UNAX VEH LOC#7	UNIAxIAL VEHICULE LOCATION #7
VEH LOC#5 AY	VEHICULE LOCATION #5 AY
VEH LOC#6 AY	VEHICULE LOCATION #6 AY
VEH LOC#8 AY	VEHICULE LOCATION #8 AY
VEH LOC#9 AY	VEHICULE LOCATION #9 AY
VEH LOC#4 AY	VEHICULE LOCATION #4 AY
VEH LOC#10 AY	VEHICULE LOCATION #10 AY
VEH LOC#11 AY	VEHICULE LOCATION #11 AY
CHAU BACT AB DPL	CHAUFFEUR BAS COTE ABDOMINALE DEPLACEMENT
CHAU PELVIS X	CHAUFFEUR PELVIS X
CHAU PELVIS Y	CHAUFFEUR PELVIS Y
CHAU PELVIS Z	CHAUFFEUR PELVIS Z
CHAU PUBIS FY	CHAUFFEUR PUBIS FORCE Y
CHAU SACRUM FY	CHAUFFEUR SACRUM FORCE Y
CHAU ILAQ G FY	CHAUFFEUR FOSSE ILIAQUE GAUCHE FORCE Y
BMD LOC#1 AX	BARRIERE MOBILE DEFORMABLE LOCATION #1 AX
BMD LOC#1 AY	BARRIERE MOBILE DEFORMABLE LOCATION #1 AY
BMD LOC#1 AZ	BARRIERE MOBILE DEFORMABLE LOCATION #1 AZ
BMD LOC#2 AX	BARRIERE MOBILE DEFORMABLE LOCATION #2 AX
BMD LOC#3 AX	BARRIERE MOBILE DEFORMABLE LOCATION #3 AX

LEGEND

VEH LOC#2 AZ	VEHICLE LOCATION #2 AZ
VEH LOC#3 AX	VEHICLE LOCATION #3 AX
VEH LOC#3 AY	VEHICLE LOCATION #3 AY
VEH LOC#3 AZ	VEHICLE LOCATION #3 AZ
VEH UNAX LOC#7	VEHICLE UNIAxIAL LOCATION #7
VEH LOC#5 AY	VEHICLE LOCATION #5 AY
VEH LOC#6 AY	VEHICLE LOCATION #6 AY
VEH LOC#8 AY	VEHICLE LOCATION #8 AY
VEH LOC#9 AY	VEHICLE LOCATION #9 AY
VEH LOC#4 AY	VEHICLE LOCATION #4 AY
VEH LOC#10 AY	VEHICLE LOCATION #10 AY
VEH LOC#11 AY	VEHICLE LOCATION #11 AY
DRIV LRB AB DPL	DRIVER LOWER RB ABDOMINAL DISPLACEMENT
DRIVER PELVIS X	DRIVER PELVIS X
DRIVER PELVIS Y	DRIVER PELVIS Y
DRIVER PELVIS Z	DRIVER PELVIS Z
DRIV PUBIS FY	DRIVER PUBIS LOAD Y
DRIV SACRUM FY	DRIVER SACRUM LOAD Y
DRIV LT ILIAC FY	DRIVER ILIAC LEFT LOAD Y
MDB LOC#1 AX	MOBILE DEFORMABLE BARRIER LOCATION #1 AX
MDB LOC#1 AY	MOBILE DEFORMABLE BARRIER LOCATION #1 AY
MDB LOC#1 AZ	MOBILE DEFORMABLE BARRIER LOCATION #1 AZ
MDB LOC#2 AX	MOBILE DEFORMABLE BARRIER LOCATION #2 AX
MDB LOC#3 AX	MOBILE DEFORMABLE BARRIER LOCATION #3 AX



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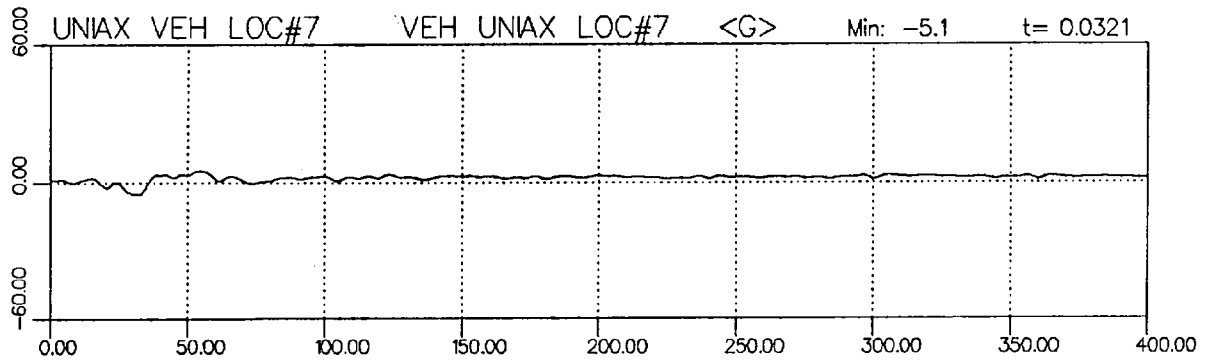
BARRIER IMPACT TEST

COLL.LATA/W U.S. MDB 27DEG

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005





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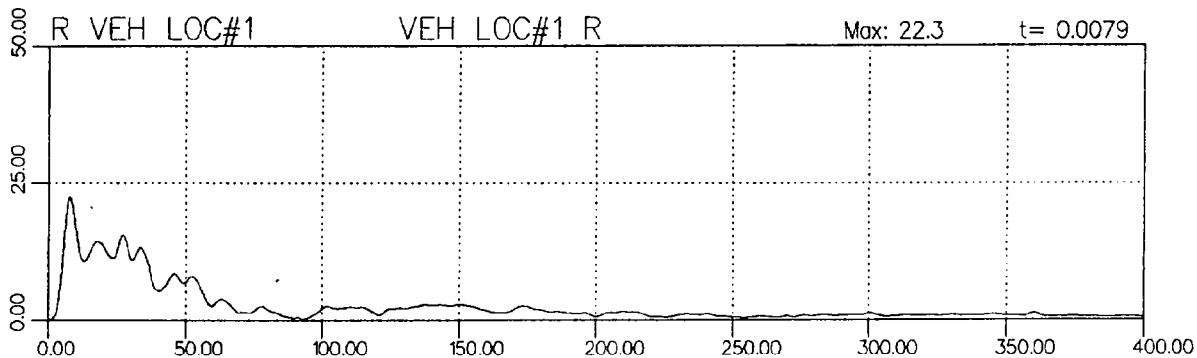
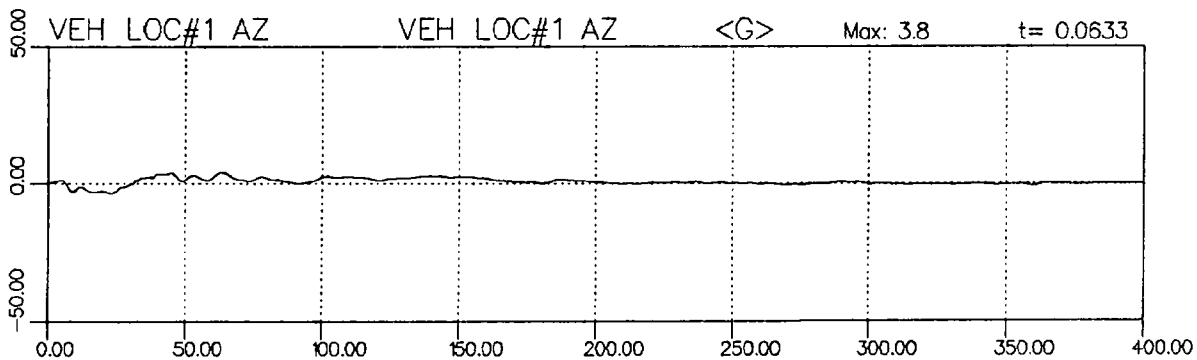
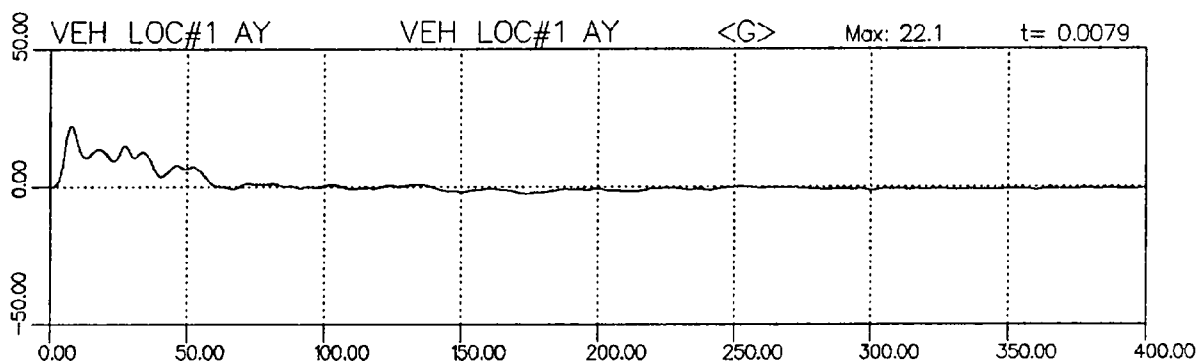
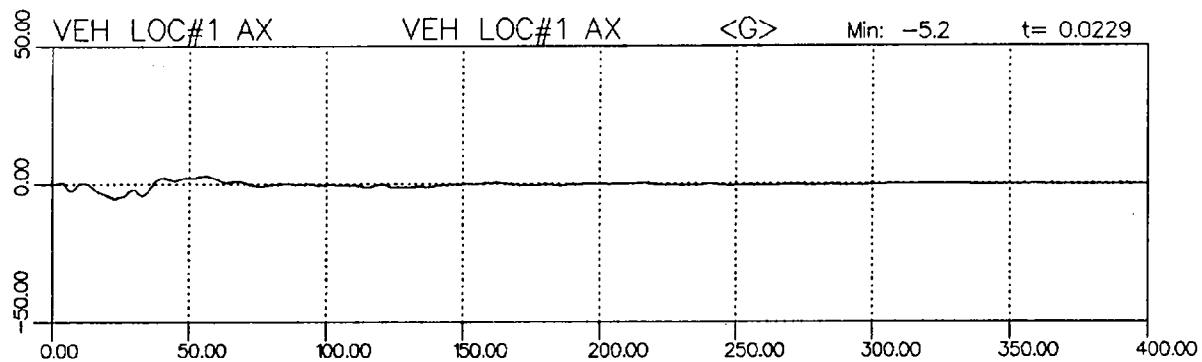
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COLLATA/W U.S. MDB 27DEG

BARRIER IMPACT TEST

COLLATA/W U.S. MDB 27DEG

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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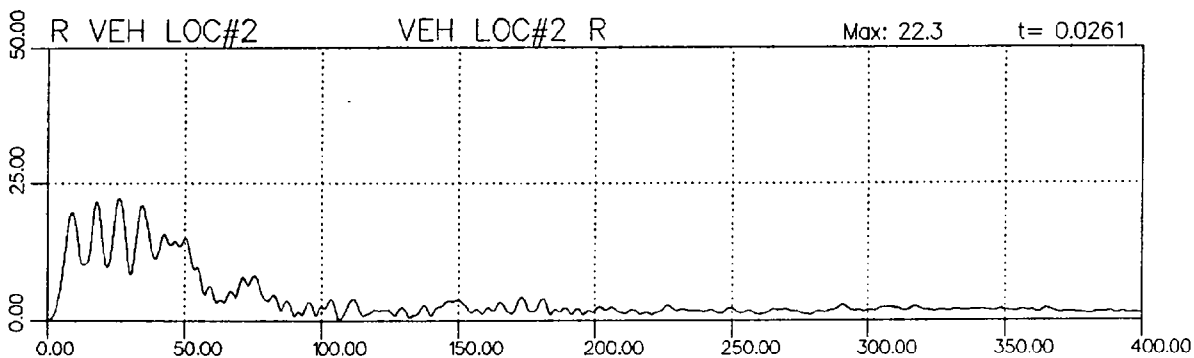
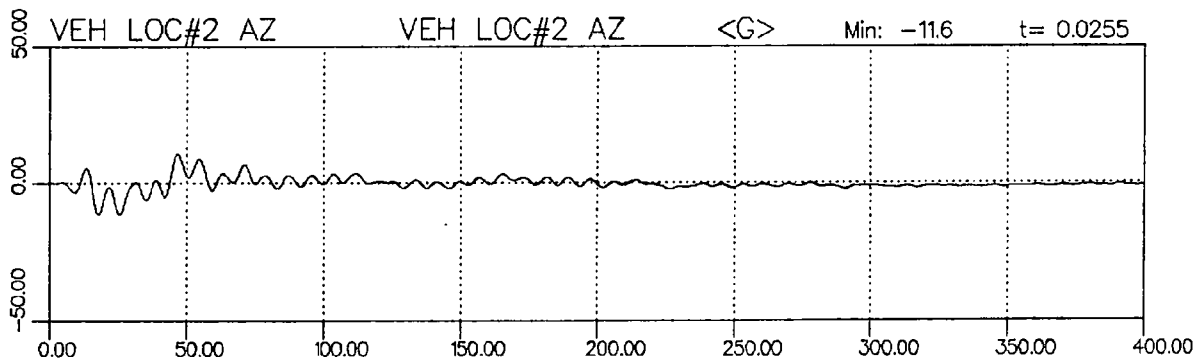
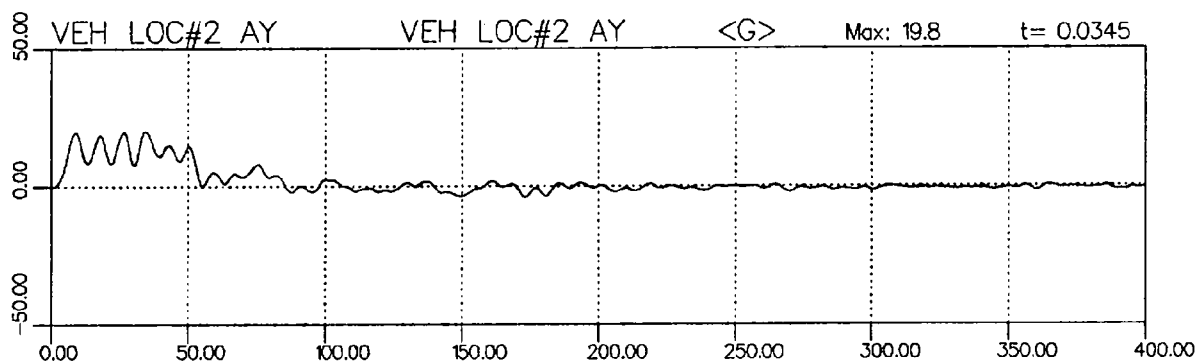
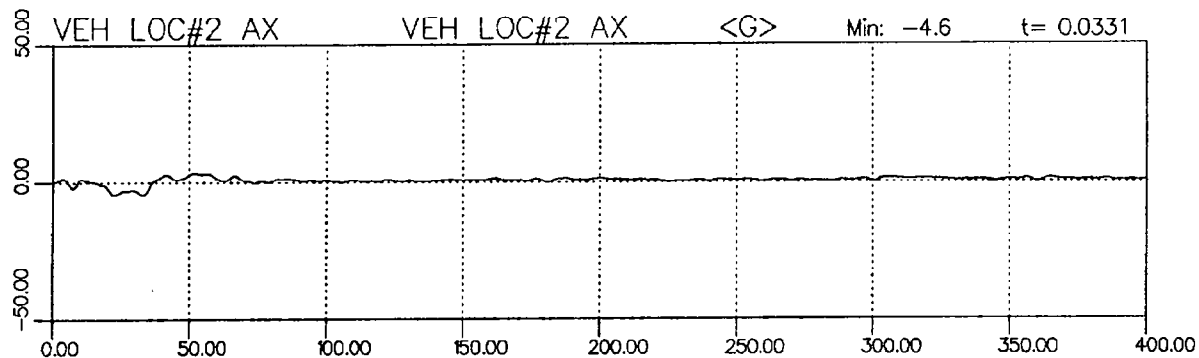
BARRIER IMPACT TEST

COLL.LATA/W U.S. MDB 27DEG

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005





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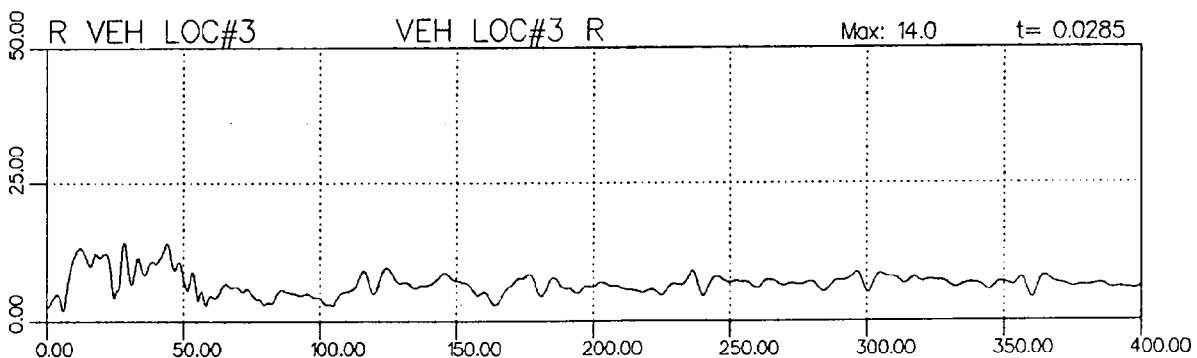
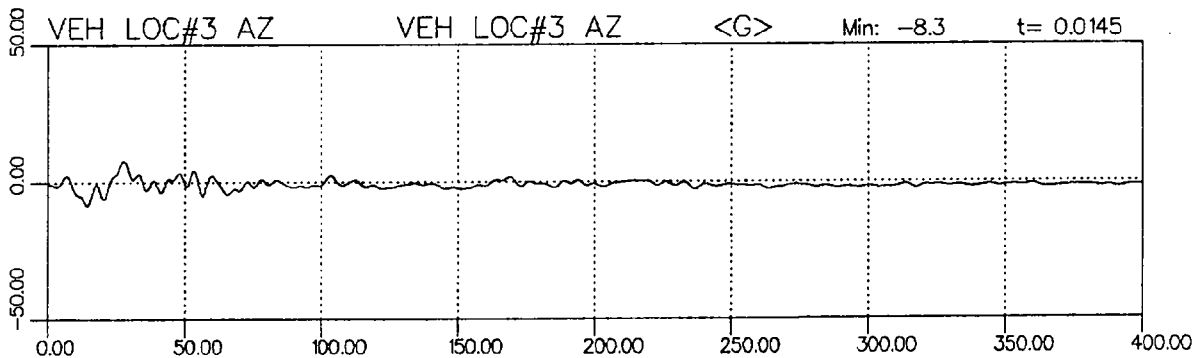
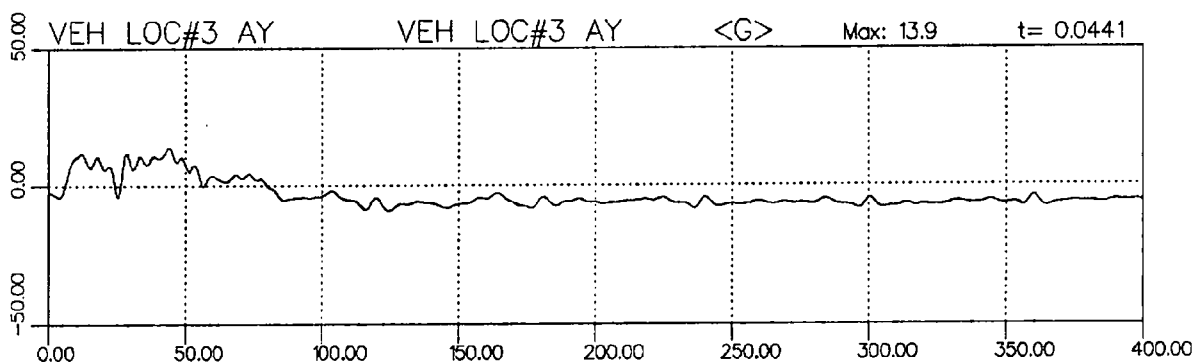
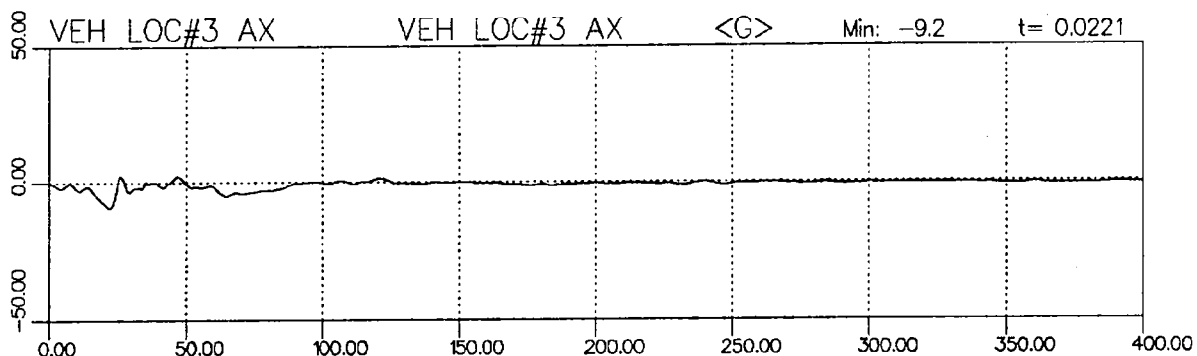
BARRIER IMPACT TEST

COLL.LATA/W U.S. MDB 27DEG

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005





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COLL.LATA/W U.S. MDB 27DEG

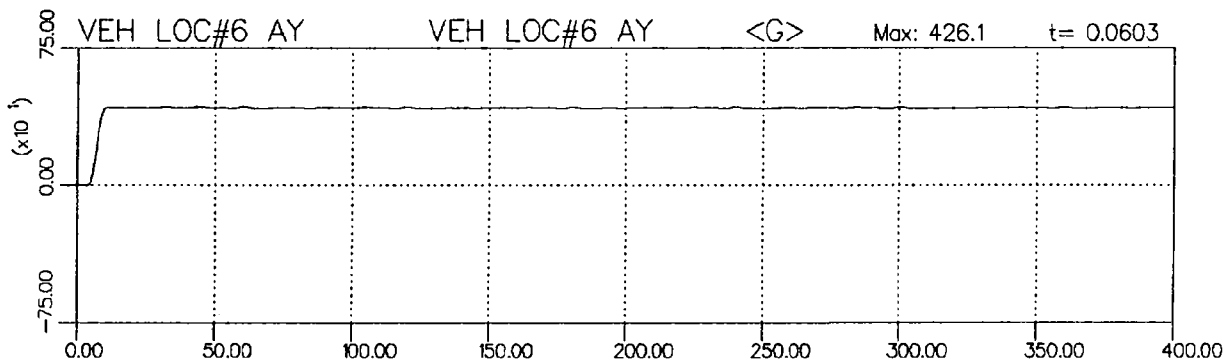
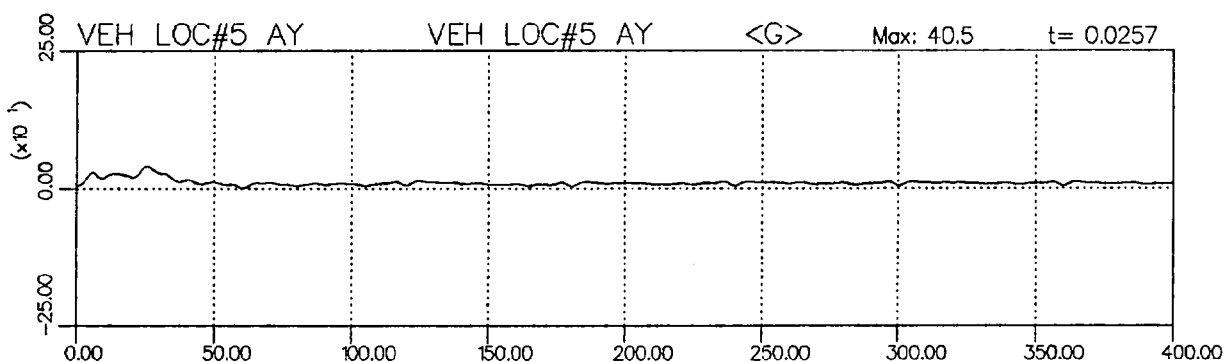
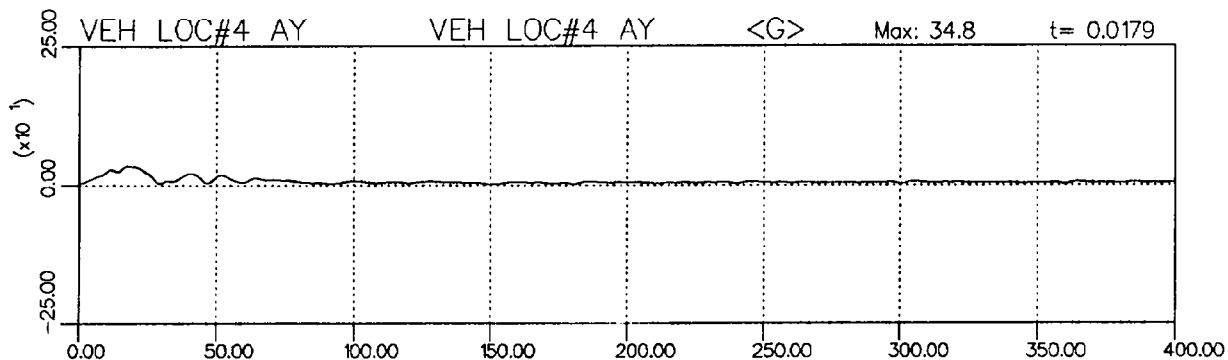
BARRIER IMPACT TEST

COLL.LATA/W U.S. MDB 27DEG

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005



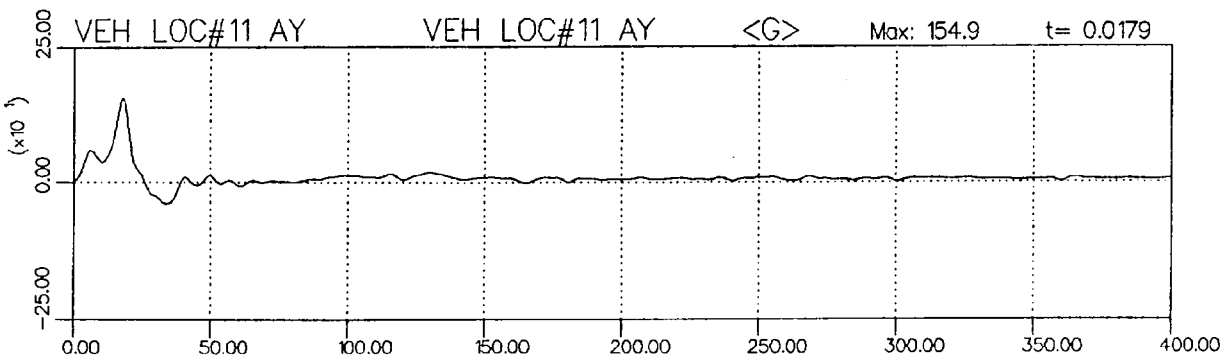
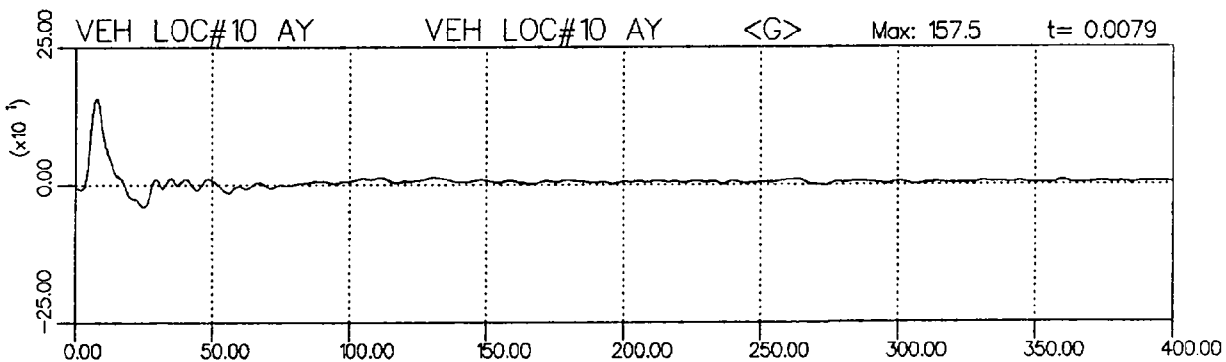
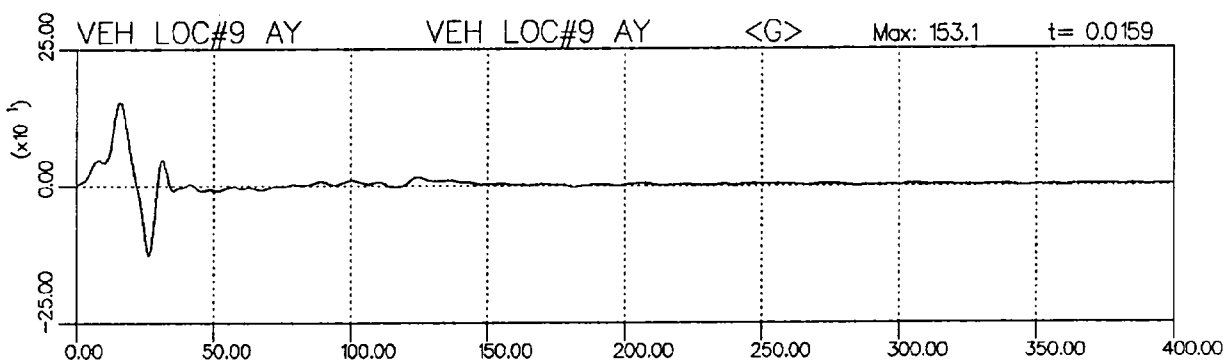
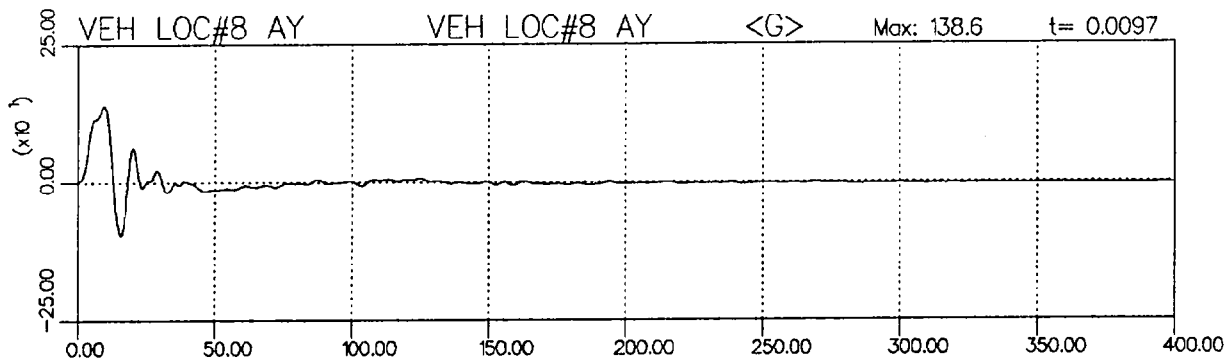
*: ECHELLE HABITUELLE DEPASSEE
*: USUAL SCALE EXCEEDED



Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005





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ESSAI DE COLLISION

COLL.LAT.A/W U.S.MDB.27DEG.

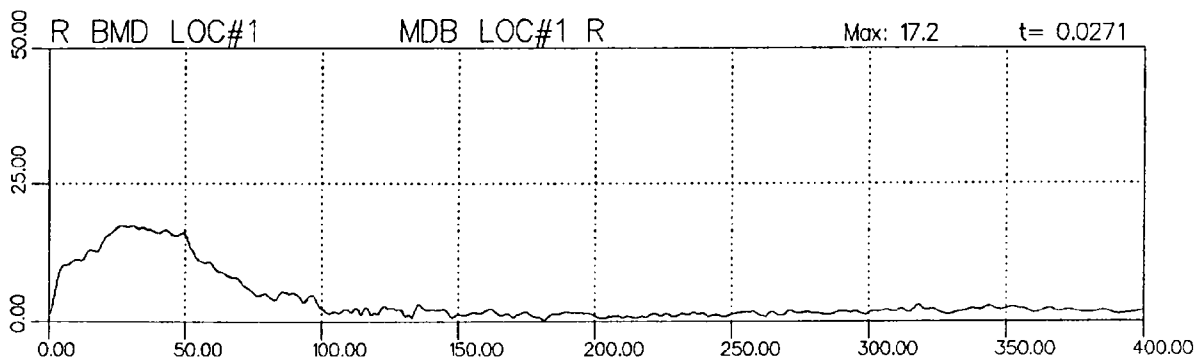
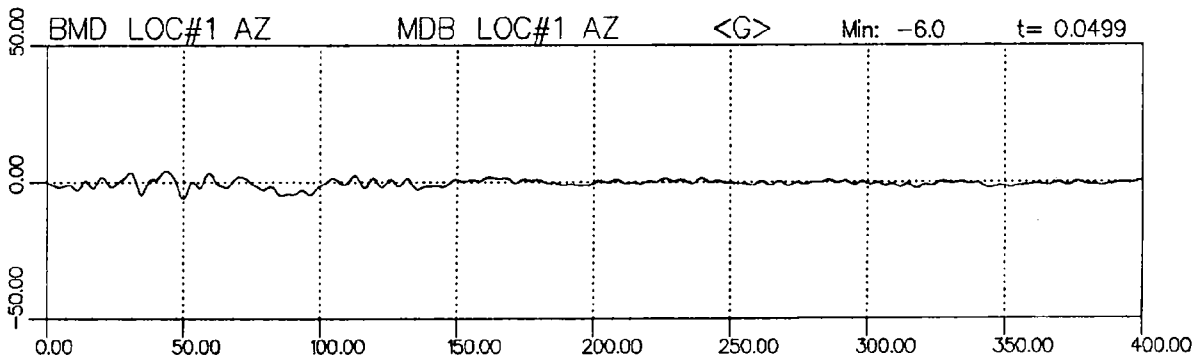
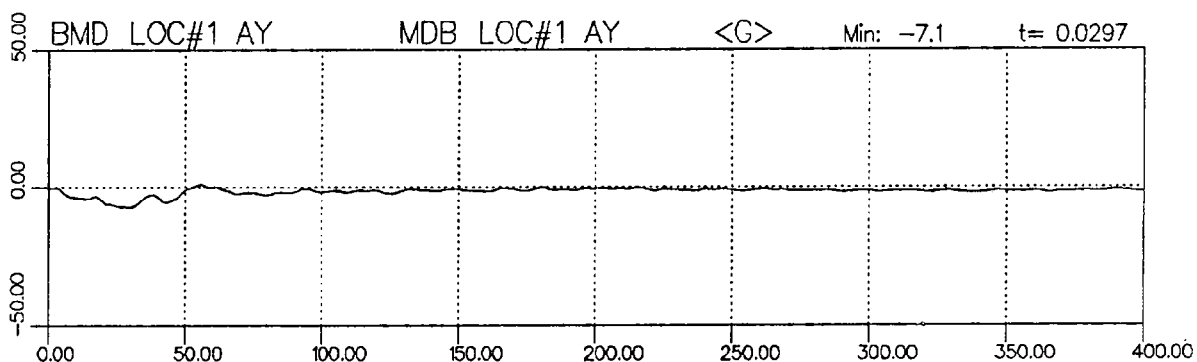
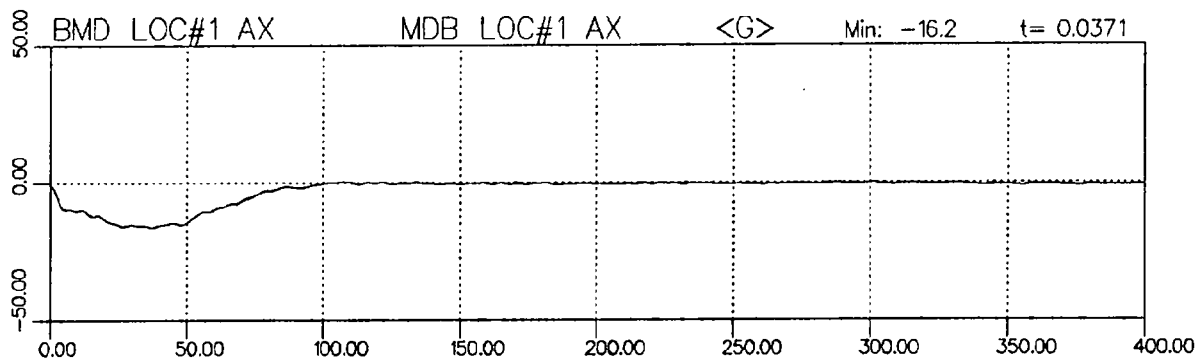
BARRIER IMPACT TEST

COLL.LAT.A/W U.S.MDB.27DEG.

Date de collision 04-SEP-92
Date impacted

Véhicule CHEV.LUMINA 91
Vehicle

T.C. N° 91-005
T.C. No.





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ESSAI DE COLLISION

COLLATA/W U.S.MDB.27DEG.

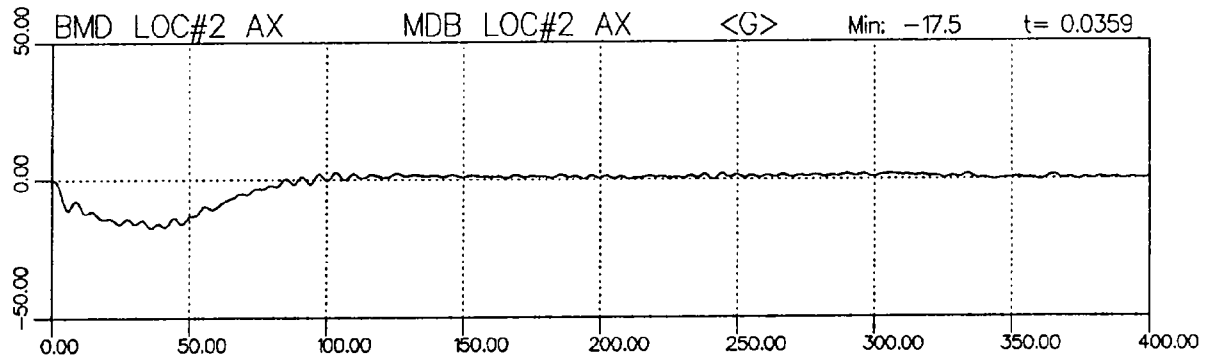
BARRIER IMPACT TEST

COLLATA/W U.S.MDB.27DEG.

Date de collision 04-SEP-92
Date impacted

Véhicule CHEV.LUMINA 91
Vehicle

T.C. N° 91-005
T.C. No.





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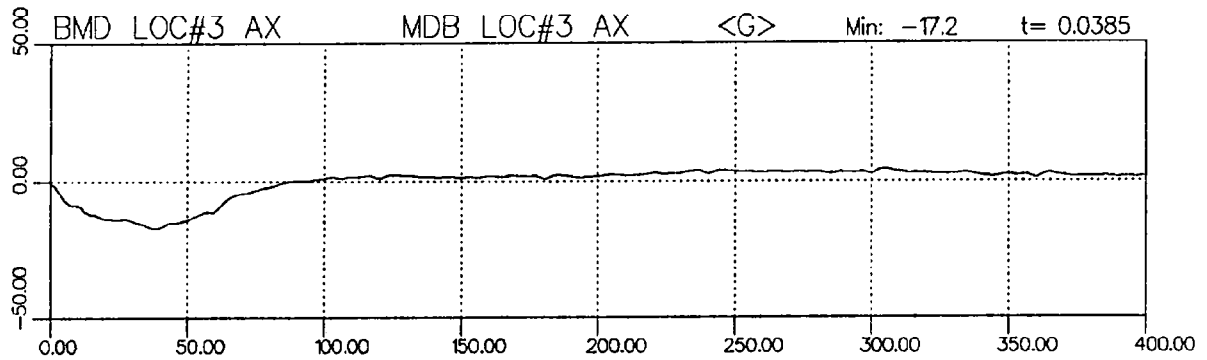
ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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ESSAI DE COLLISION

COLL.LATA/W U.S.MDB 27DEG.

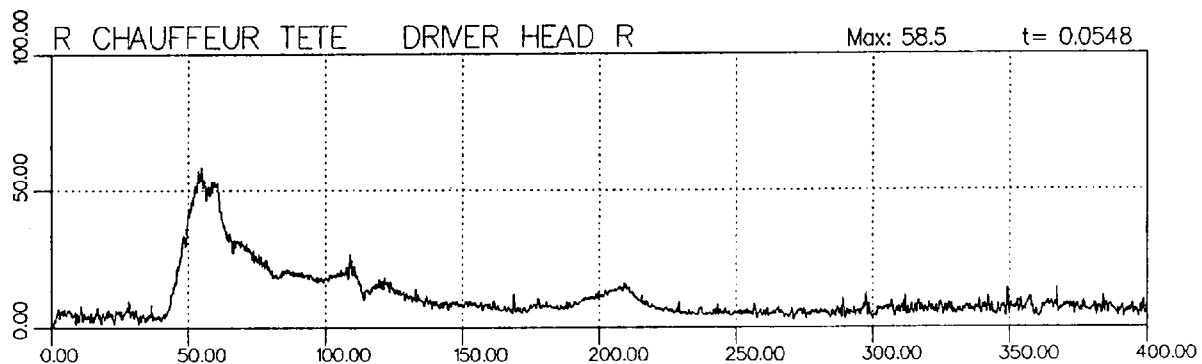
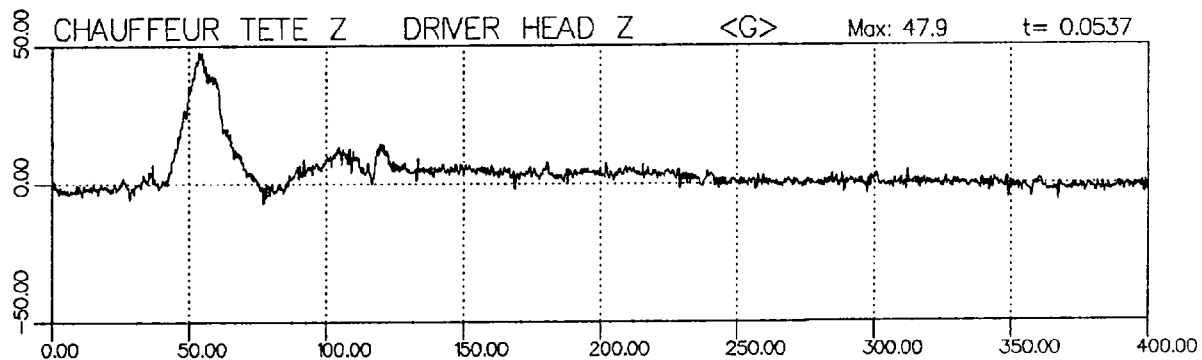
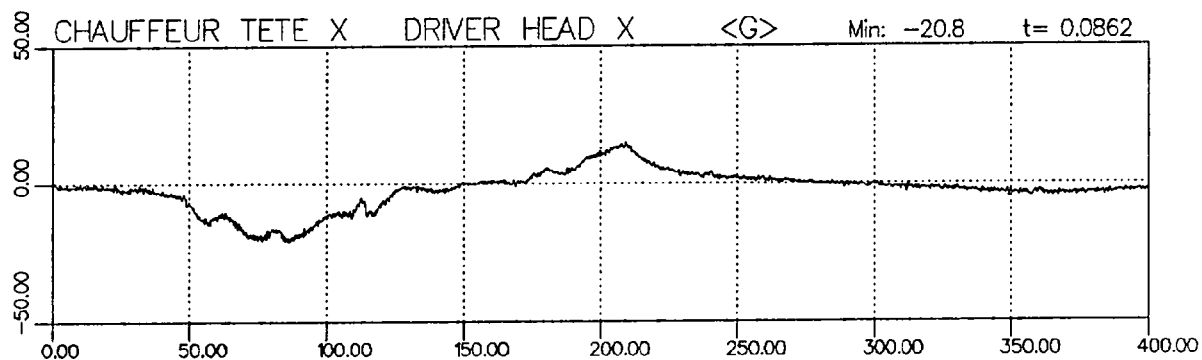
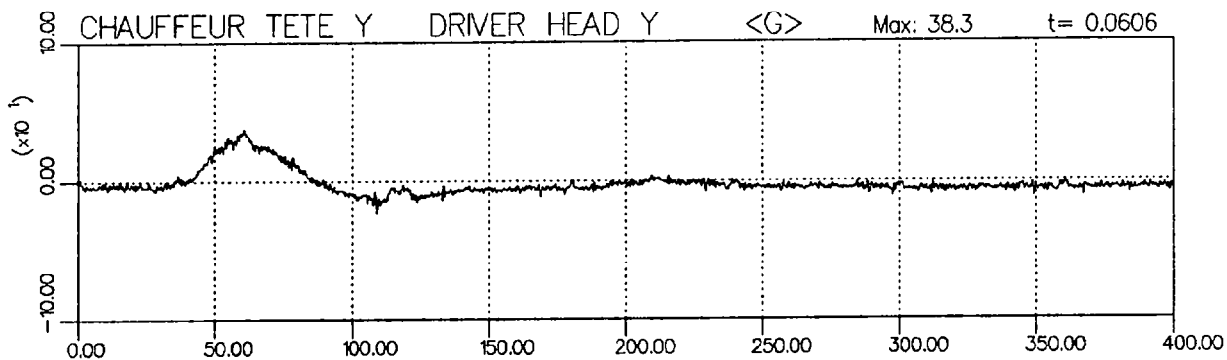
BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB 27DEG.

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005





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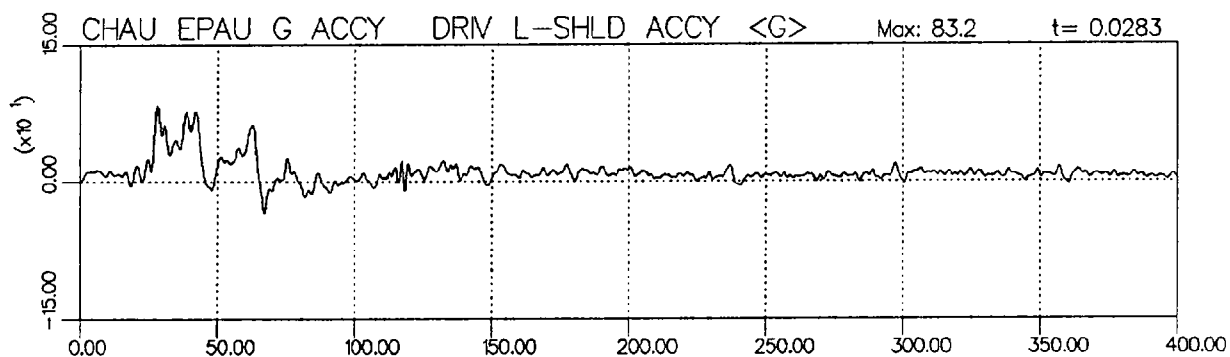
ESSAI DE COLLISION

COLL.LATA/W U.S.MDB 27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB 27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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ESSAI DE COLLISION

COLLATA/W U.S.MDB 27DEG.

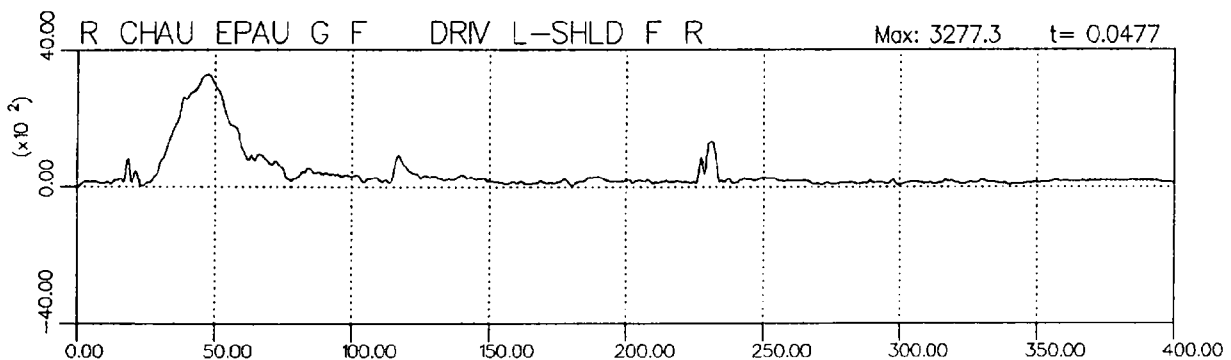
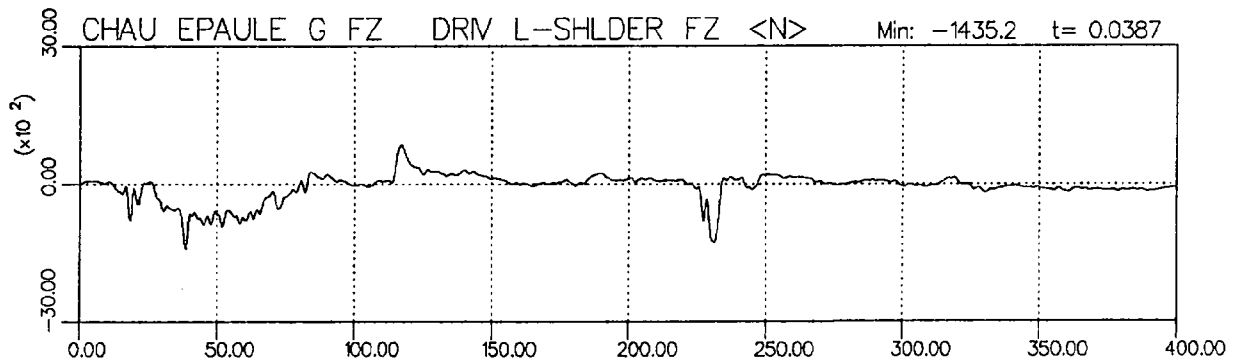
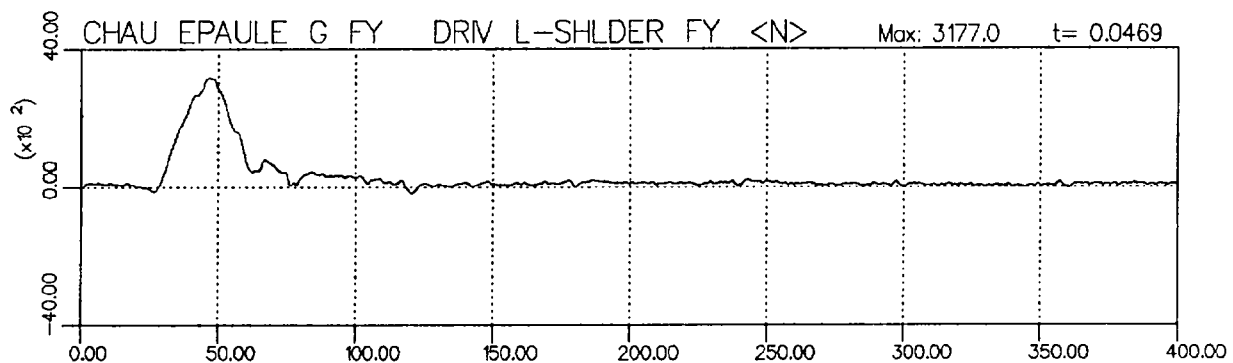
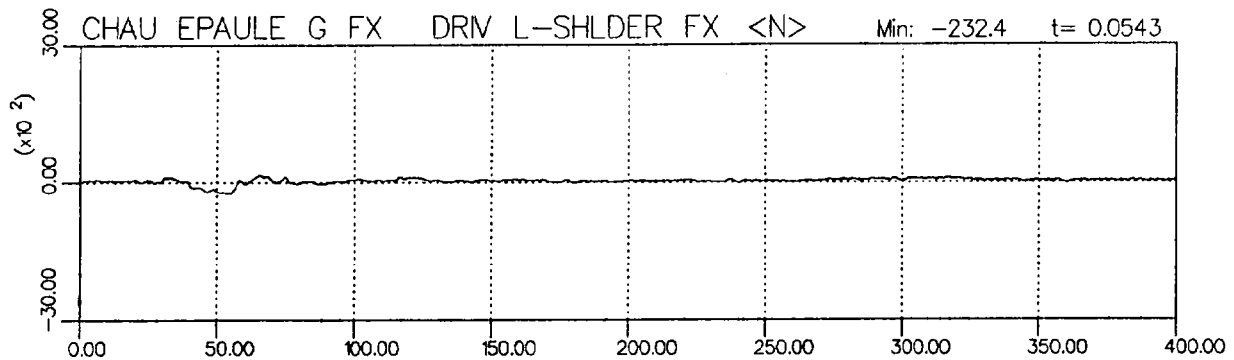
BARRIER IMPACT TEST

COLLATA/W U.S.MDB 27DEG.

Date de collision 04-SEP-92
Date impacted

Véhicule CHEV.LUMINA 91
Vehicle

T.C. N° 91-005
T.C. No.



*: ECHELLE HABITUELLE DEPASSEE
*: USUAL SCALE EXCEEDED



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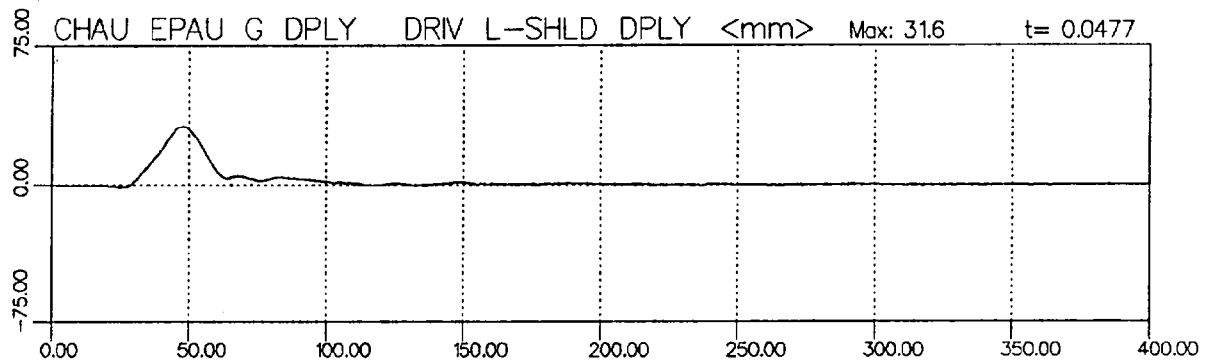
ESSAI DE COLLISION

COLL.LATA/W U.S.MOB 27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MOB 27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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ESSAI DE COLLISION

COLL LATA/W U.S.MDB 27DEG.

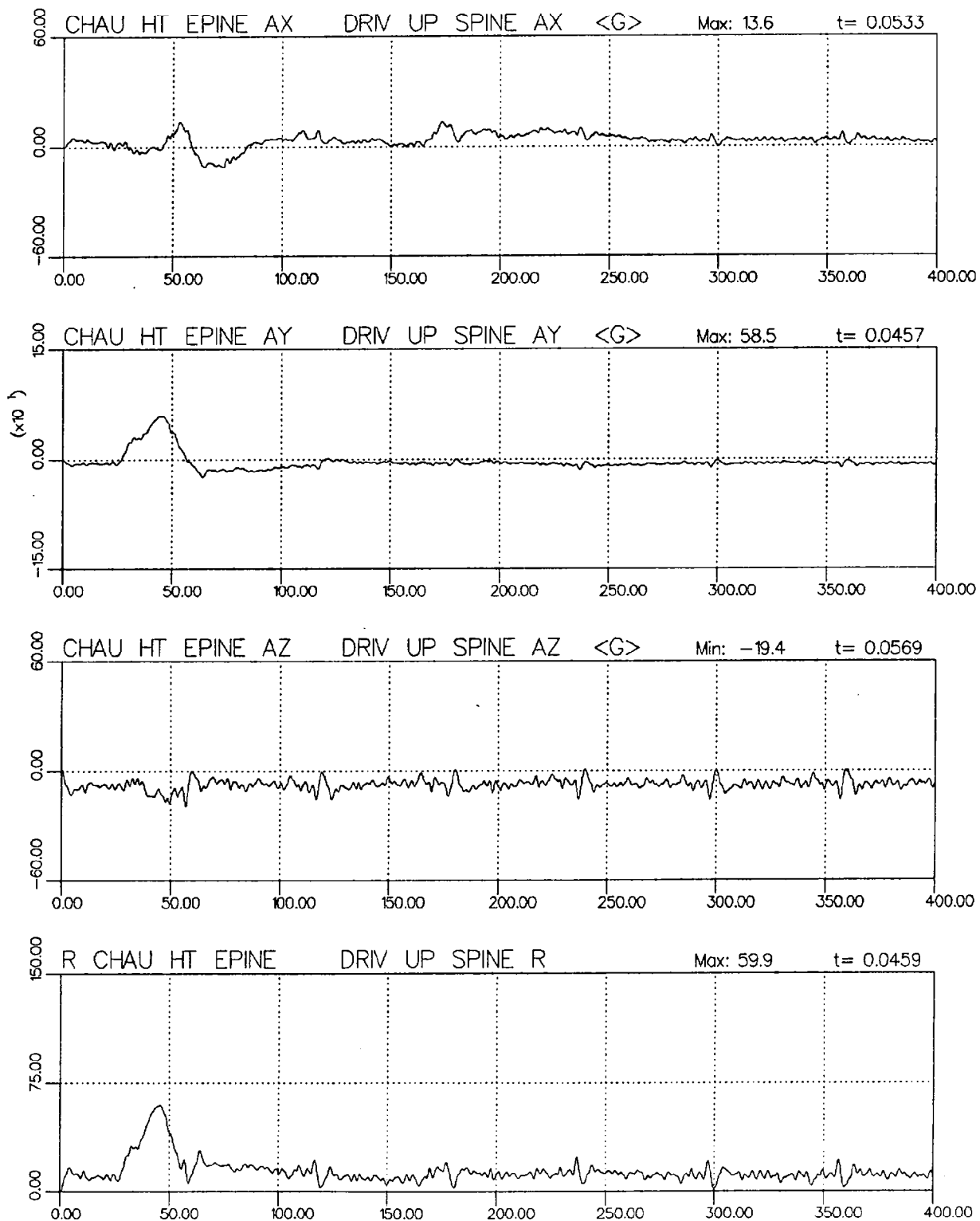
BARRIER IMPACT TEST

COLL LATA/W U.S.MDB 27DEG.

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005





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ESSAI DE COLLISION

COLL.LATA/W USMDB 27DEG.

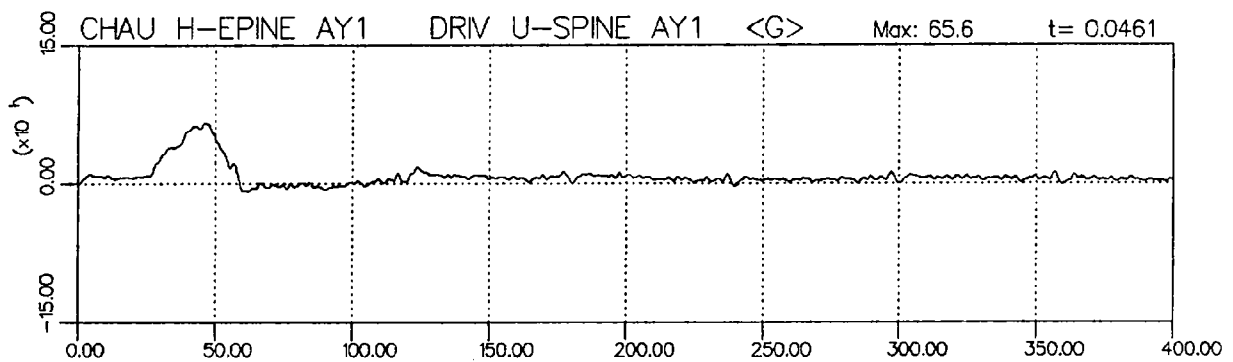
BARRIER IMPACT TEST

COLL.LATA/W USMDB 27DEG.

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005





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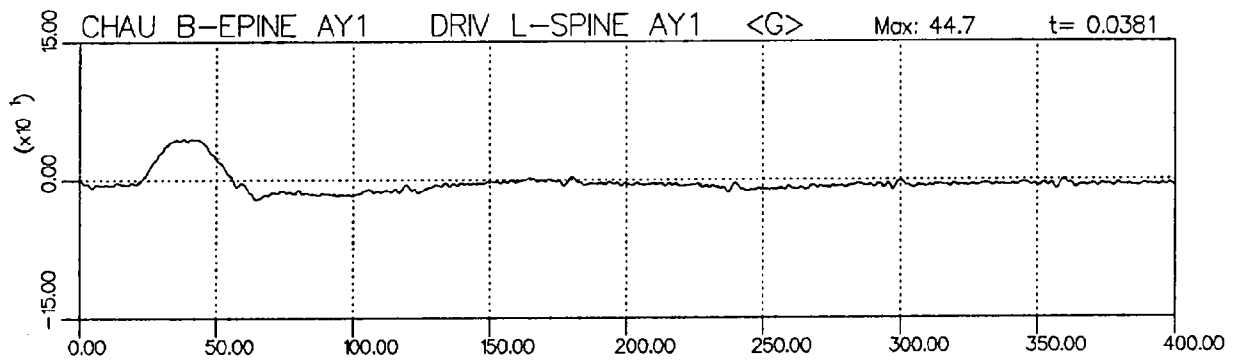
ESSAI DE COLLISION

COLLATA/W USMDB 27DEG.

BARRIER IMPACT TEST

COLLATA/W USMDB 27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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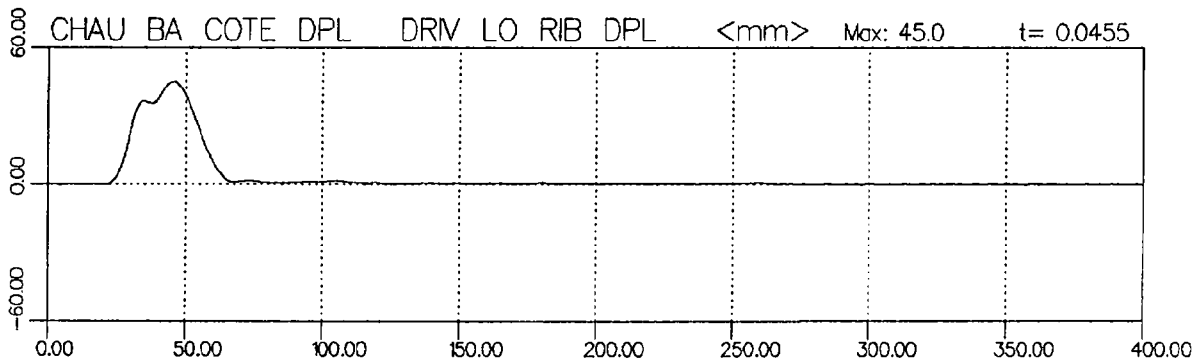
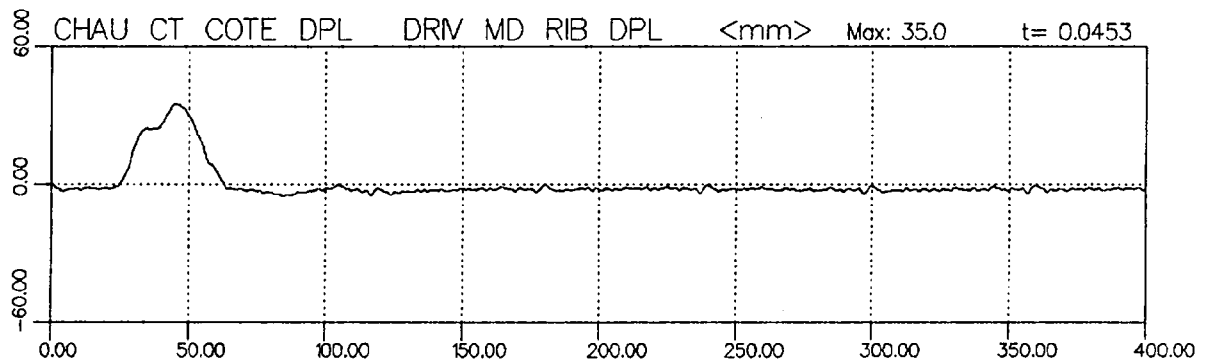
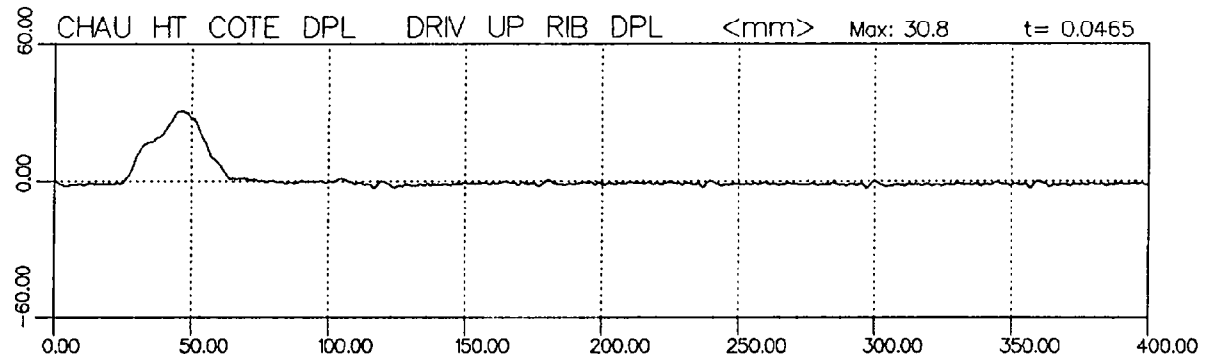
ESSAI DE COLLISION

COLLATA/W USMDB 27DEG.

BARRIER IMPACT TEST

COLLATA/W USMDB 27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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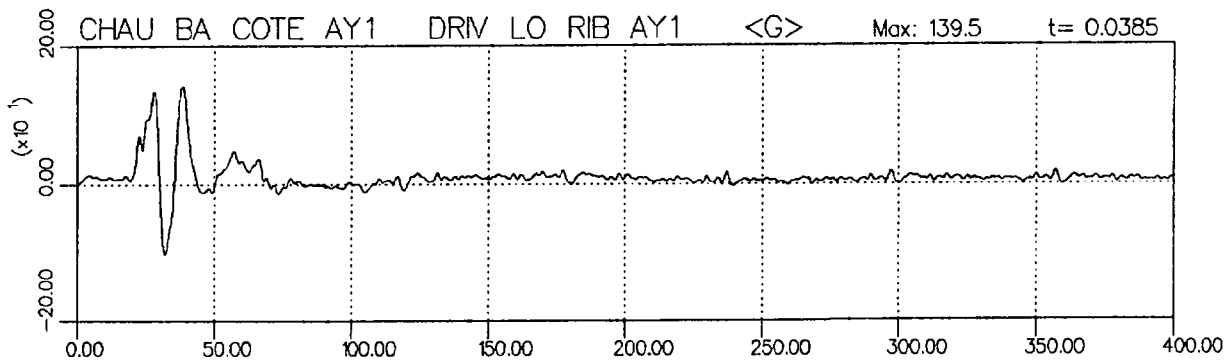
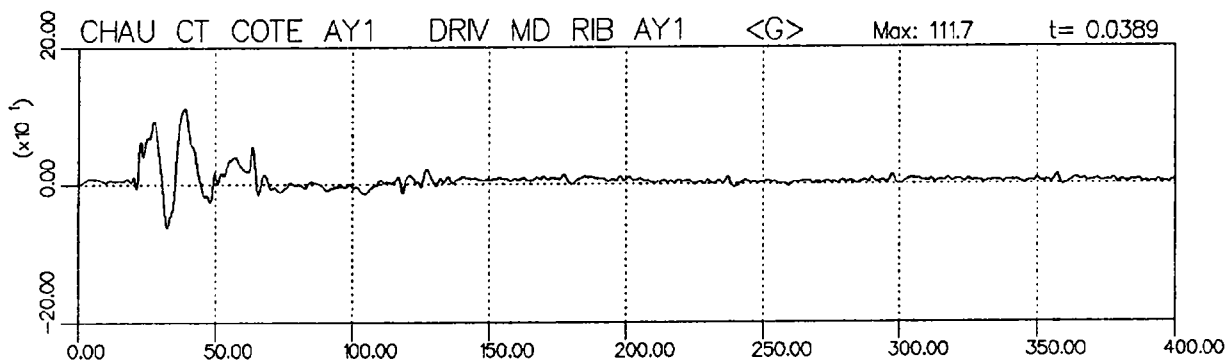
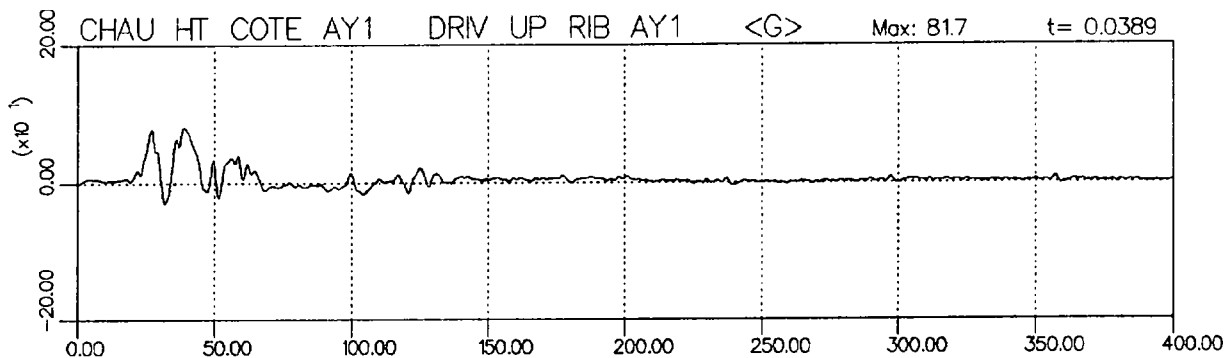
ESSAI DE COLLISION

COLL.LATA/W U.S.MDB 27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB 27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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ESSAI DE COLLISION

COLLATA/W U.S.MDB 27DEG.

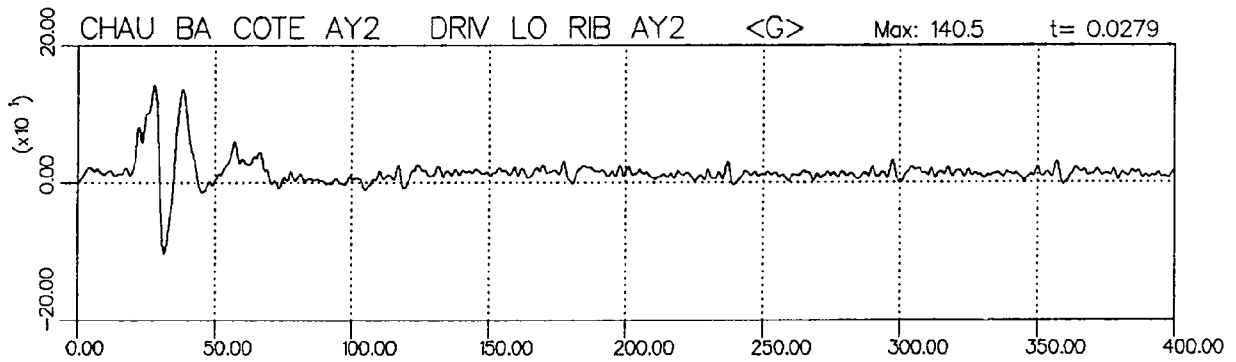
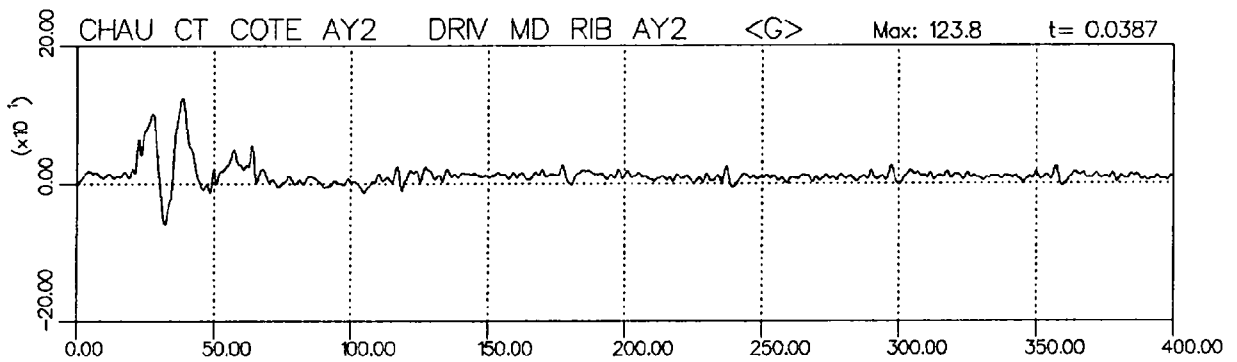
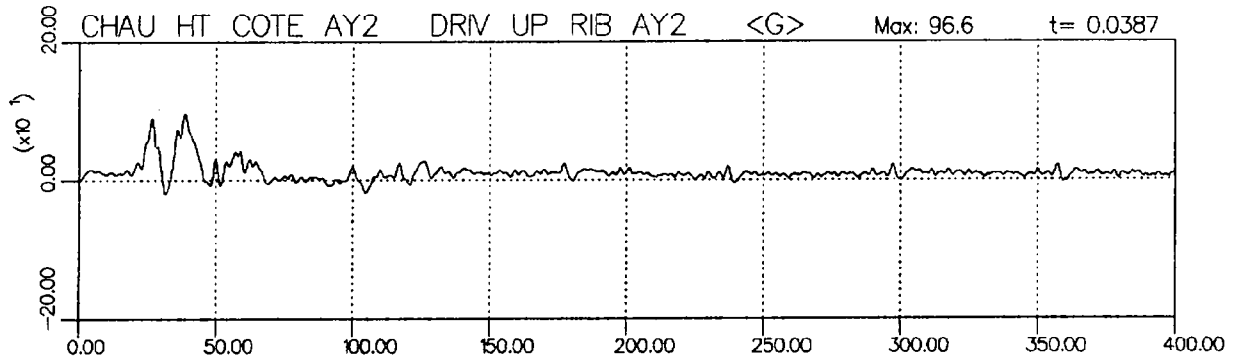
BARRIER IMPACT TEST

COLLATA/W U.S.MDB 27DEG.

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005





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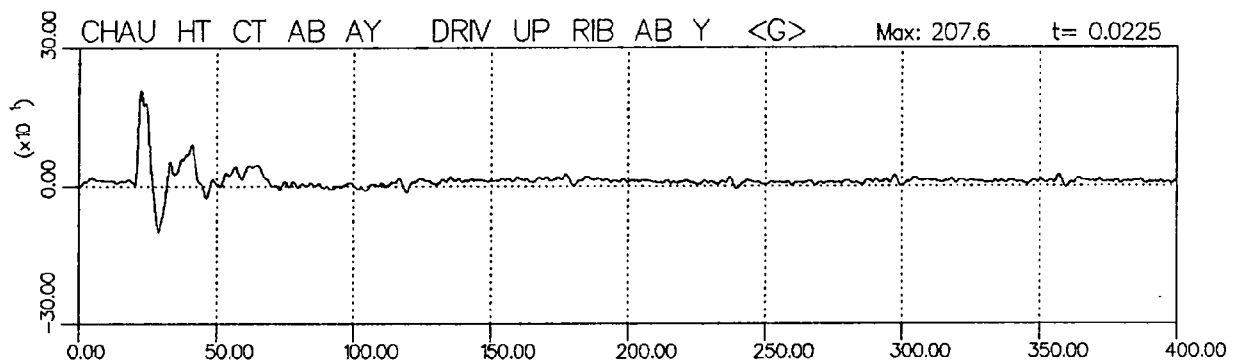
ESSAI DE COLLISION

COLL.LATA/W U.S.MDB 27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB 27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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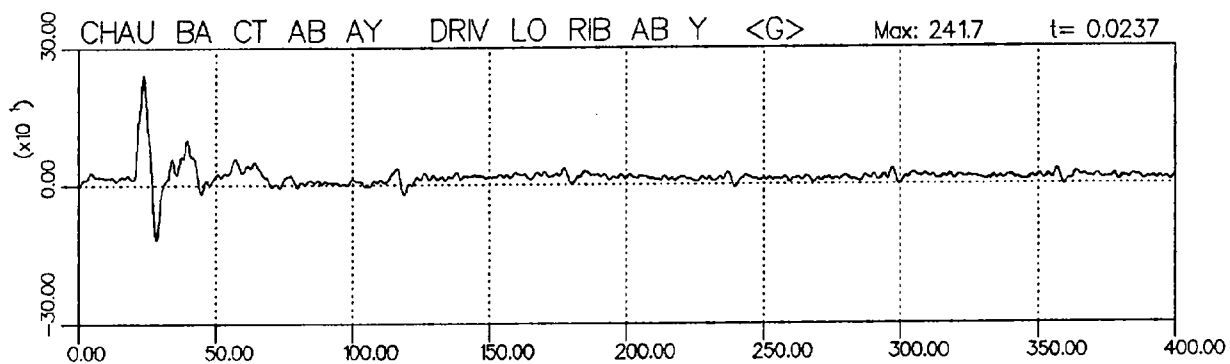
ESSAI DE COLLISION

COLL.LATA/W U.S.MDB 27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB 27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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Transport Canada
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ESSAI DE COLLISION

COLLATA/W U.S.MOB 27DEG.

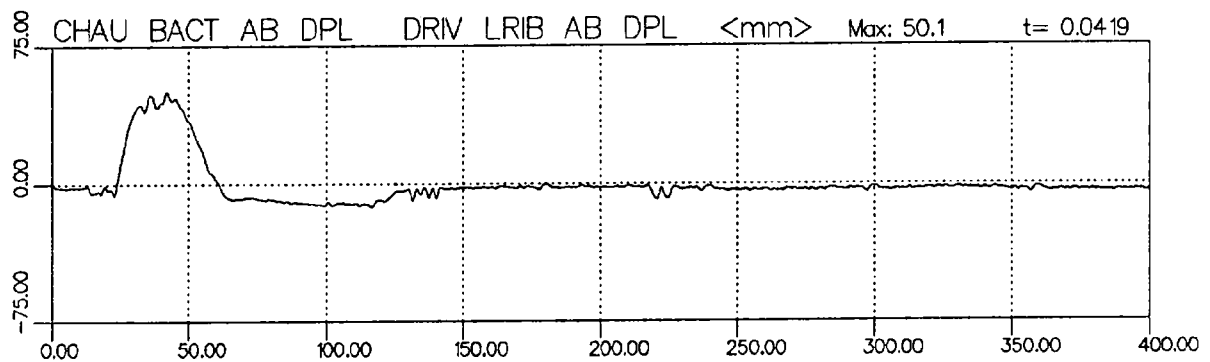
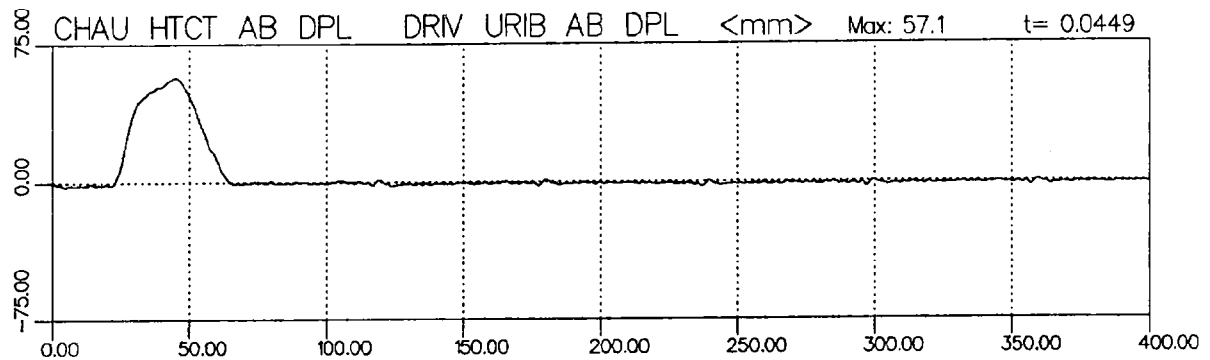
BARRIER IMPACT TEST

COLLATA/W U.S.MOB 27DEG.

Date de collision 04-SEP-92
Date impacted

Véhicule CHEV.LUMINA 91
Vehicle

T.C. N° 91-005
T.C. No.





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Transport Canada
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ESSAI DE COLLISION

COLLATA/W U.S.MDB 27DEG.

BARRIER IMPACT TEST

COLLATA/W U.S.MDB 27DEG.

Date de collision
Date impacted

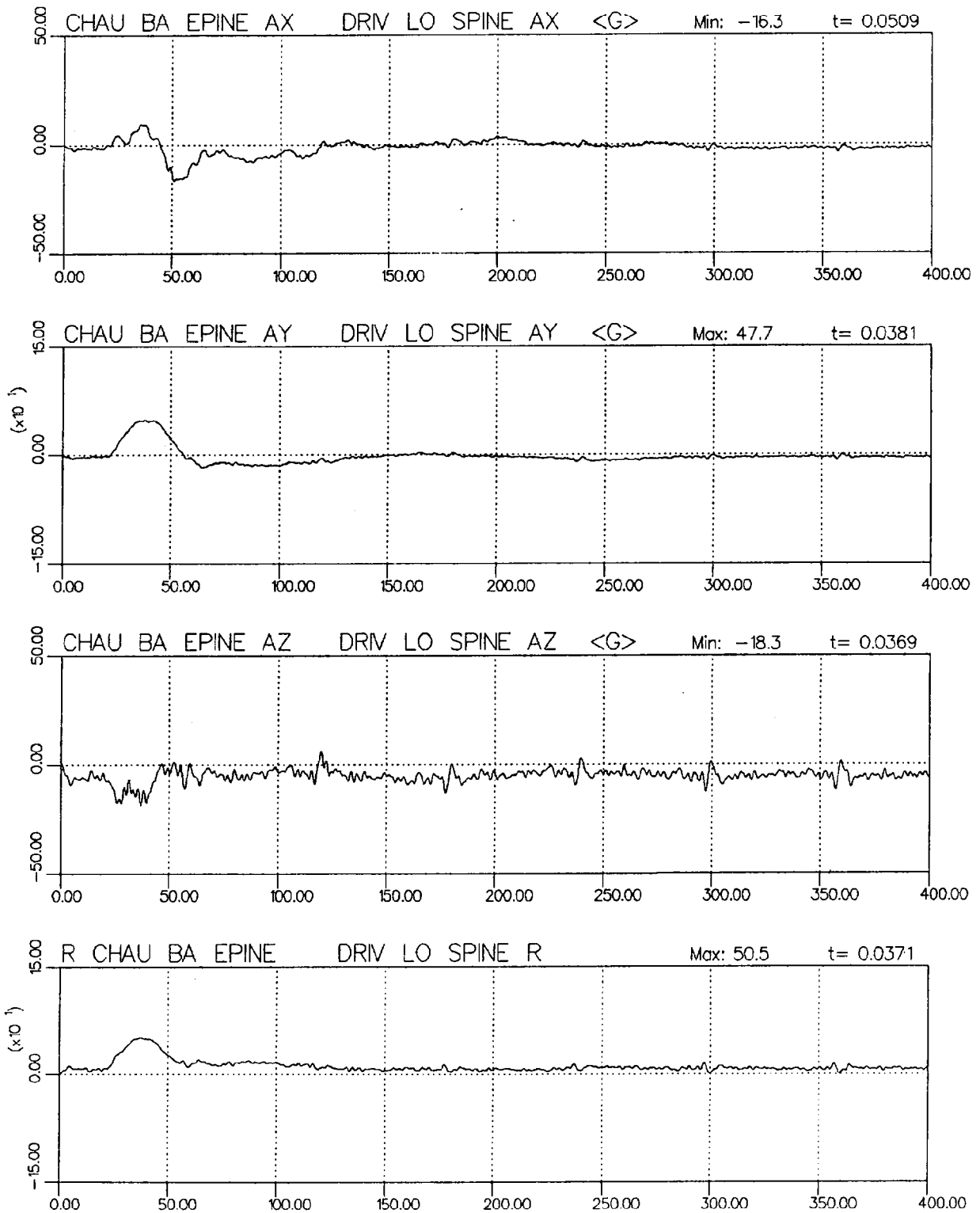
04-SEP-92

Véhicule
Vehicle

CHEV.LUMINA 91

T.C. N°
T.C. No.

91-005





Transports Canada
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ESSAI DE COLLISION

COLLATA/W U.S. MDB 27DEG

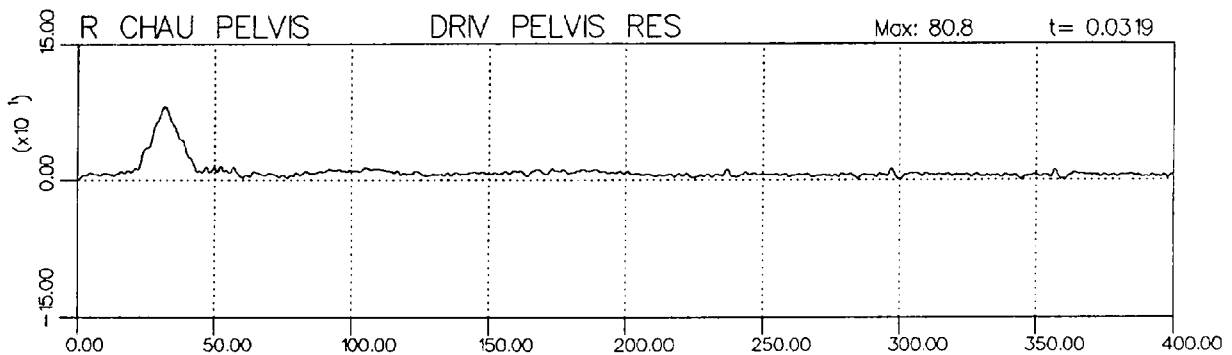
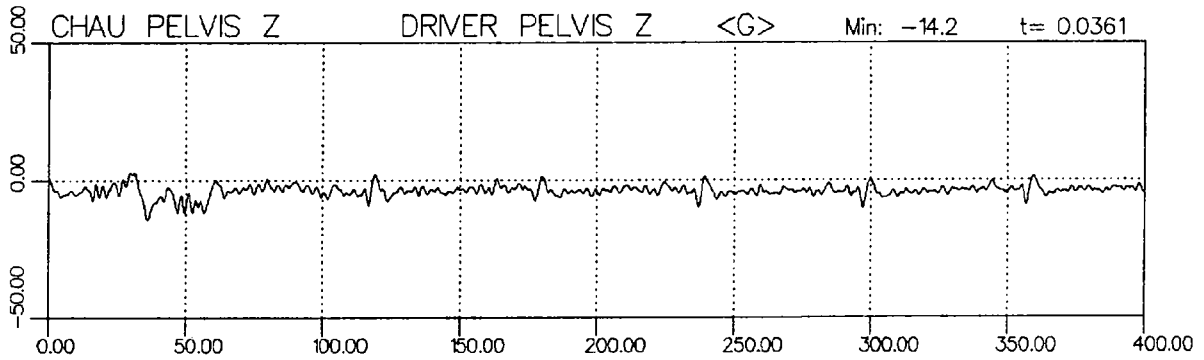
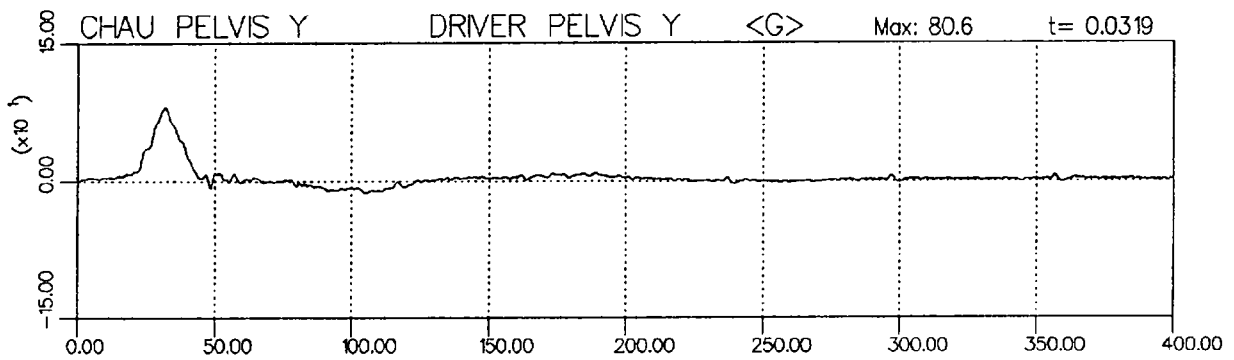
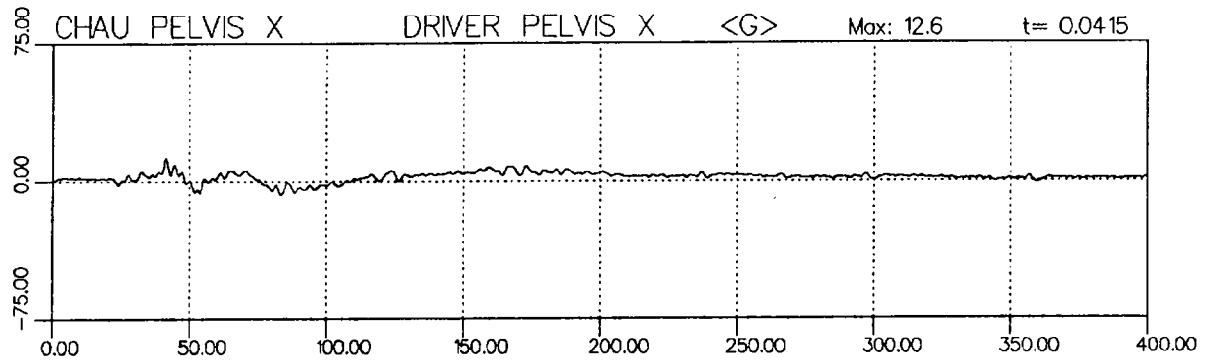
BARRIER IMPACT TEST

COLLATA/W U.S. MDB 27DEG

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005





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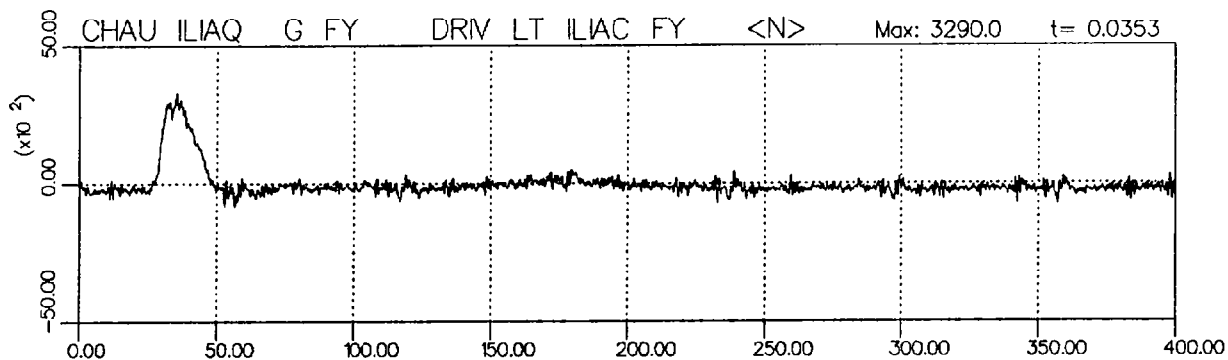
ESSAI DE COLLISION

COLL.LATA/W U.S. MDB 27DEG

BARRIER IMPACT TEST

COLL.LATA/W U.S. MDB 27DEG

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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ESSAI DE COLLISION

COLL.LATA/W U.S. MDB 27DEG

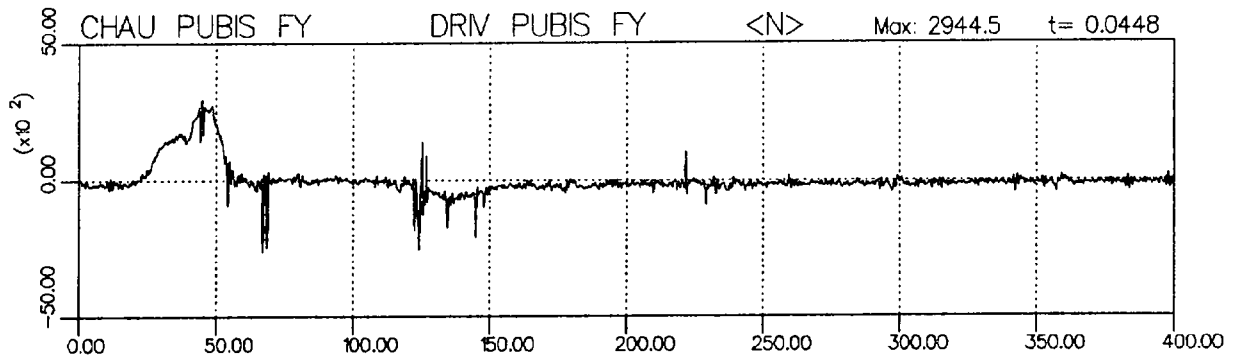
BARRIER IMPACT TEST

COLL.LATA/W U.S. MDB 27DEG

Date de collision 04-SEP-92
Date impacted

Véhicule CHEV.LUMINA 91
Vehicle

T.C. N° 91-005
T.C. No.





Transports Canada
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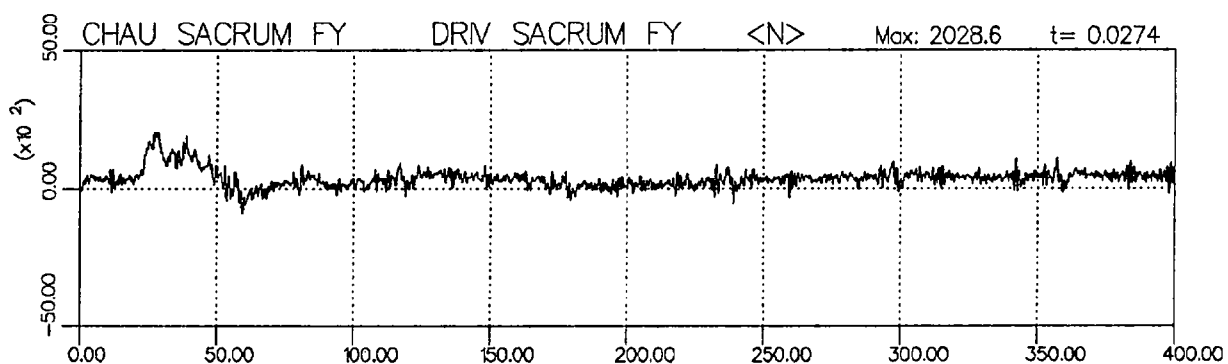
ESSAI DE COLLISION

COLL.LATA/W U.S. MDB 27DEG

BARRIER IMPACT TEST

COLL.LATA/W U.S. MDB 27DEG

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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Transports Canada
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Transport Canada
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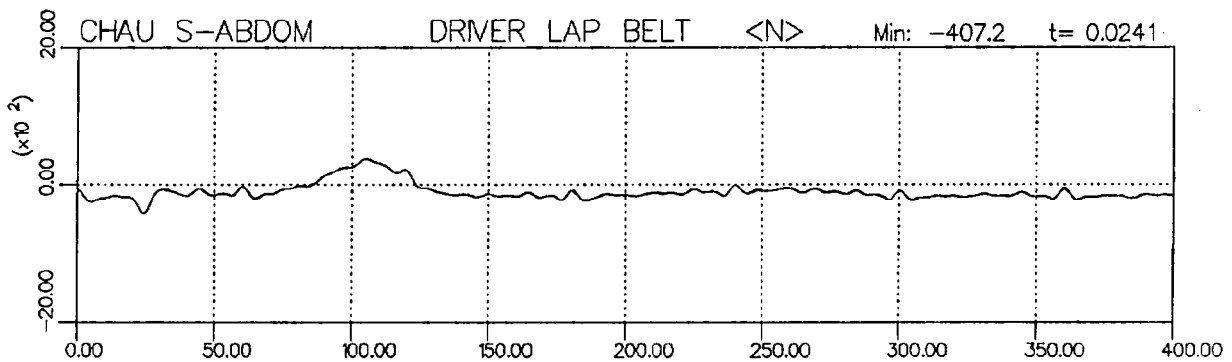
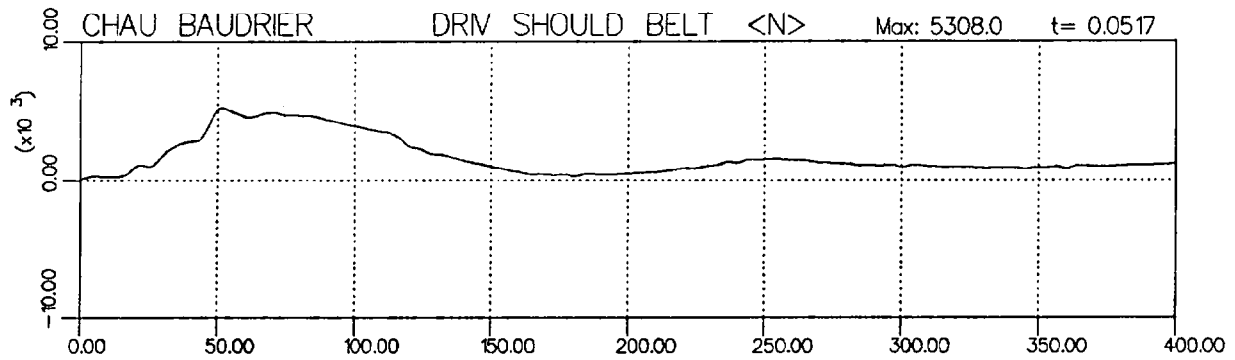
ESSAI DE COLLISION

COLLATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLLATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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*: ECHELLE HABITUELLE DEPASSEE
*: USUAL SCALE EXCEEDED



Transports Canada
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Transport Canada
M.V.T.C.

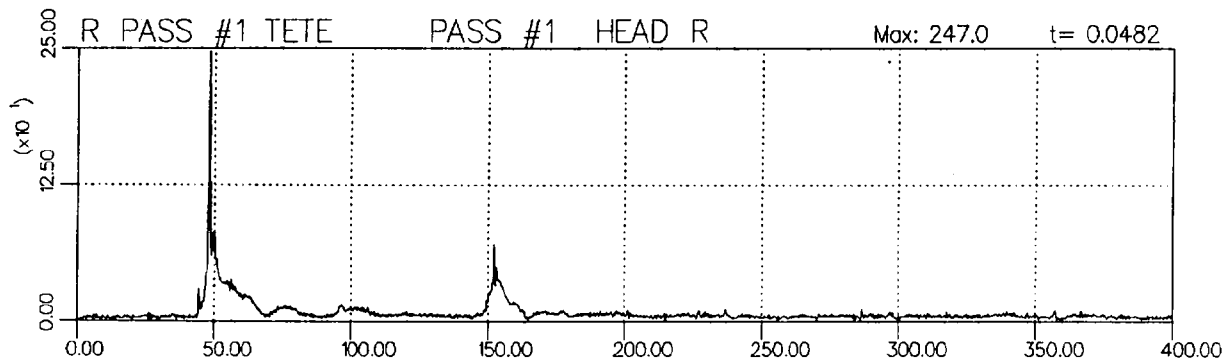
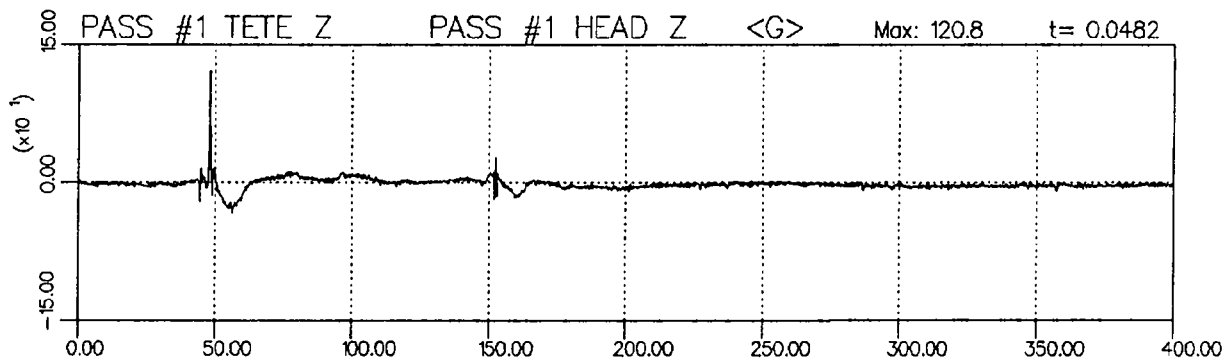
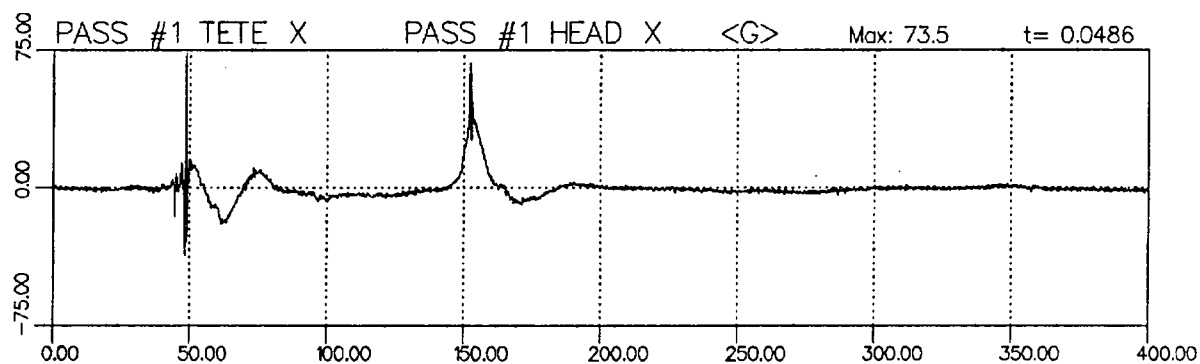
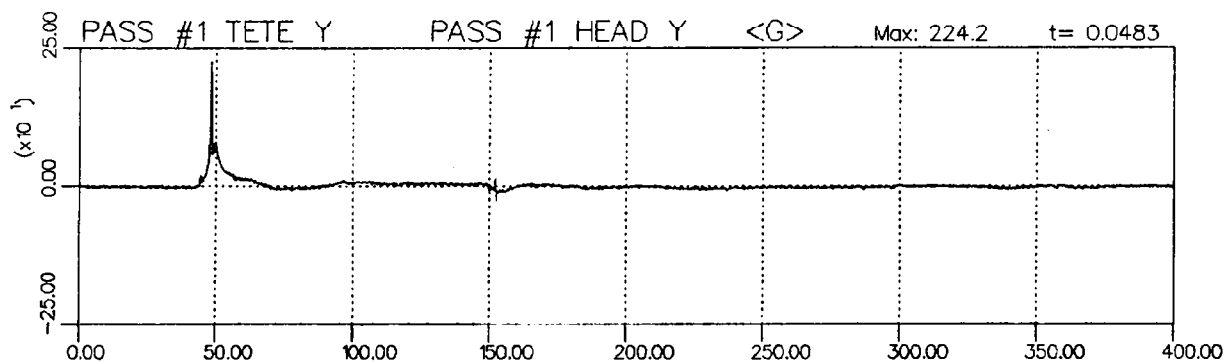
ESSAI DE COLLISION

COLLATA/W U.S.MDB.270EG.

BARRIER IMPACT TEST

COLLATA/W U.S.MDB.270EG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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*: ECHELLE HABITUELLE DEPASSEE

*: USUAL SCALE EXCEEDED



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Transport Canada
M.V.T.C.

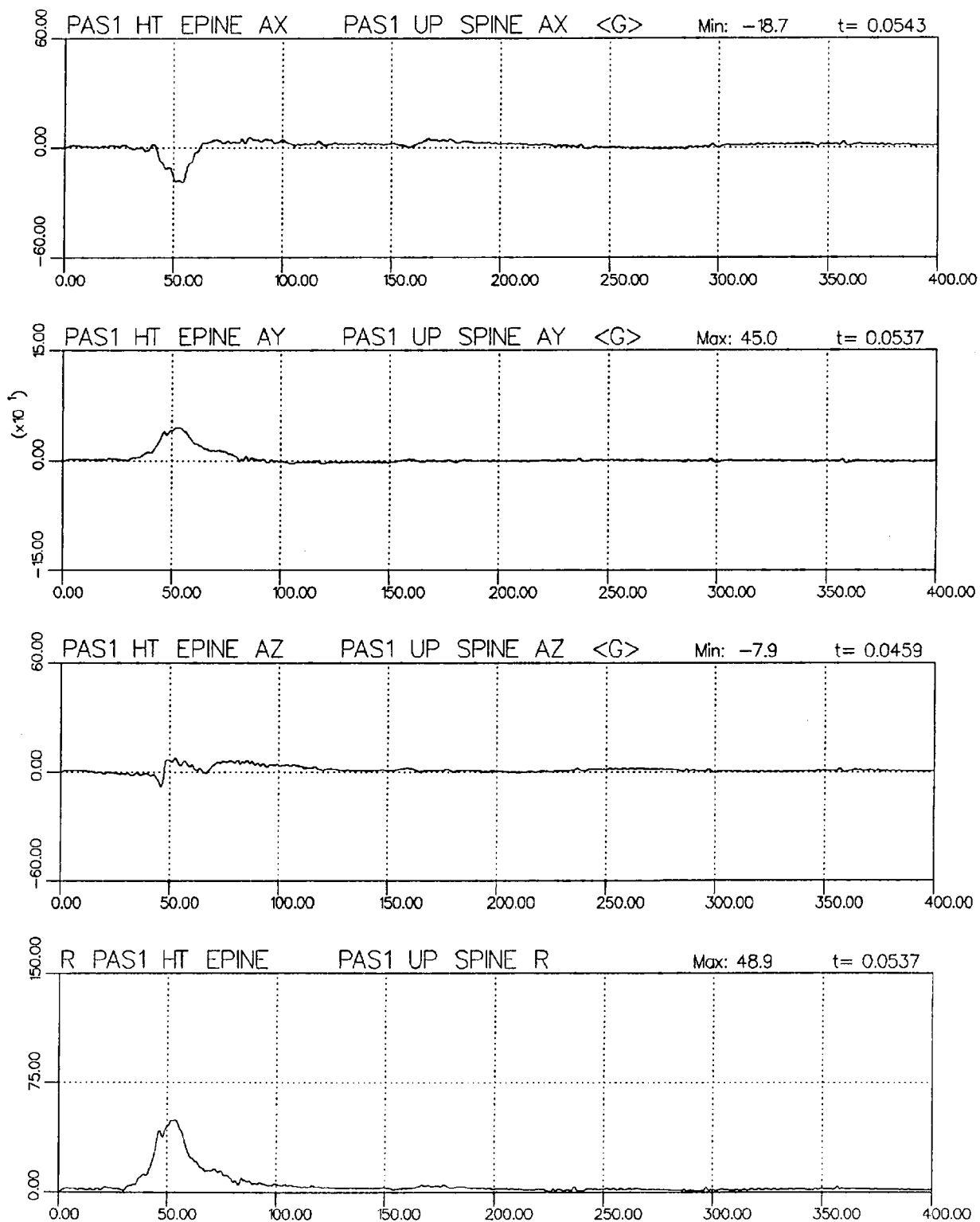
ESSAI DE COLLISION

COLLATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLLATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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Transport Canada
M.V.T.C.

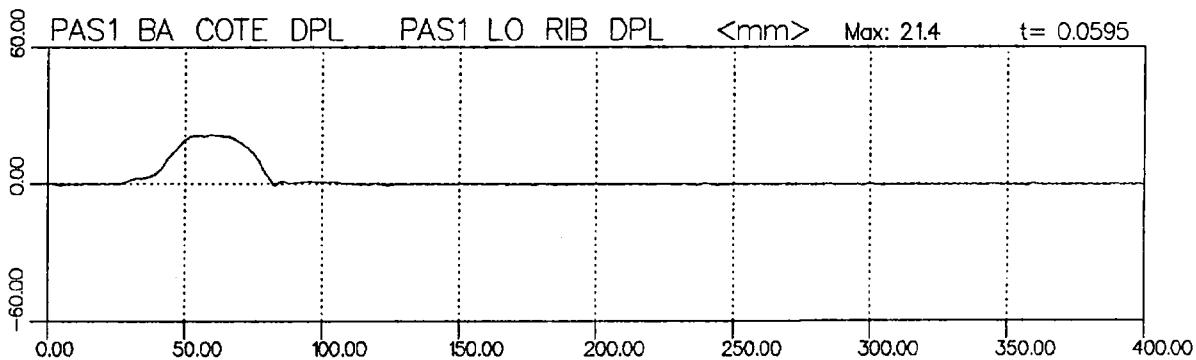
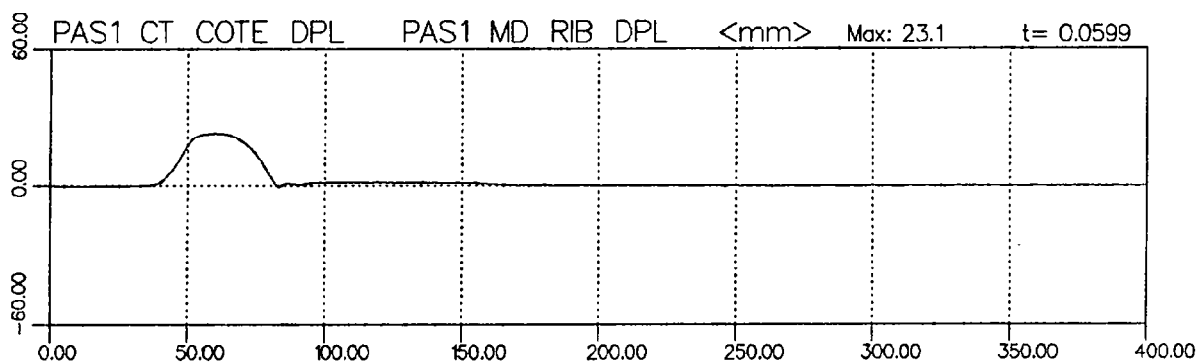
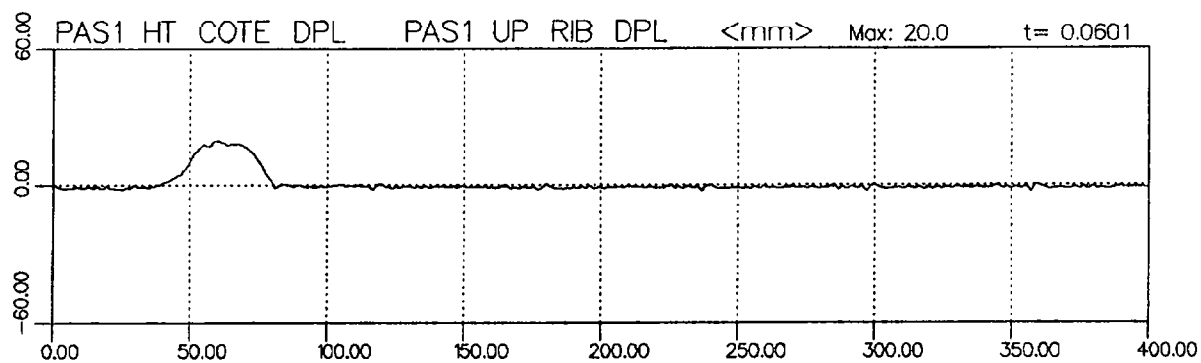
ESSAI DE COLLISION

COLL.LATA/W USMDB.27DEG.

BARRIER IMPACT TEST

COLL.LATA/W USMDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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Transports Canada
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Transport Canada
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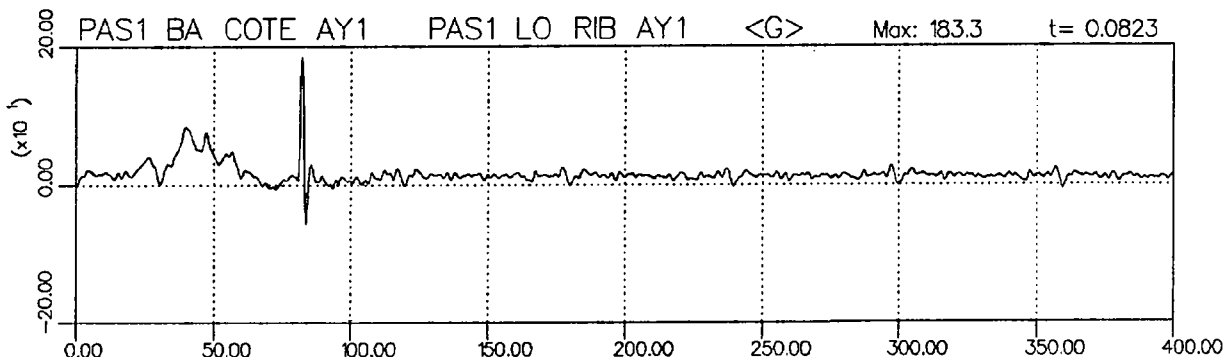
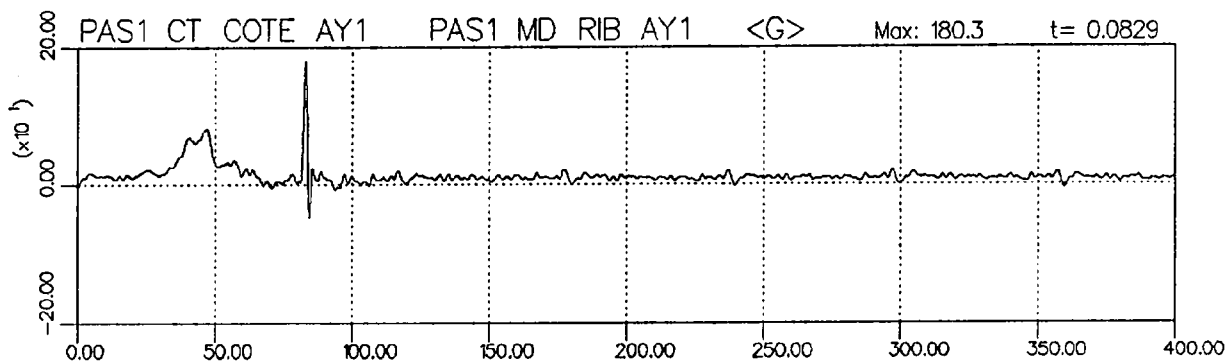
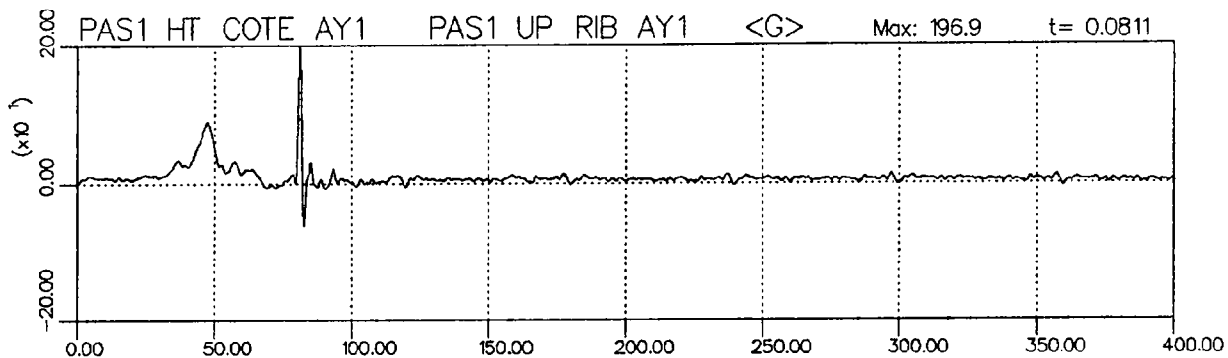
ESSAI DE COLLISION

COLL.LATA/W USMDB.27DEG.

BARRIER IMPACT TEST

COLL.LATA/W USMDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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Transports Canada
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Transport Canada
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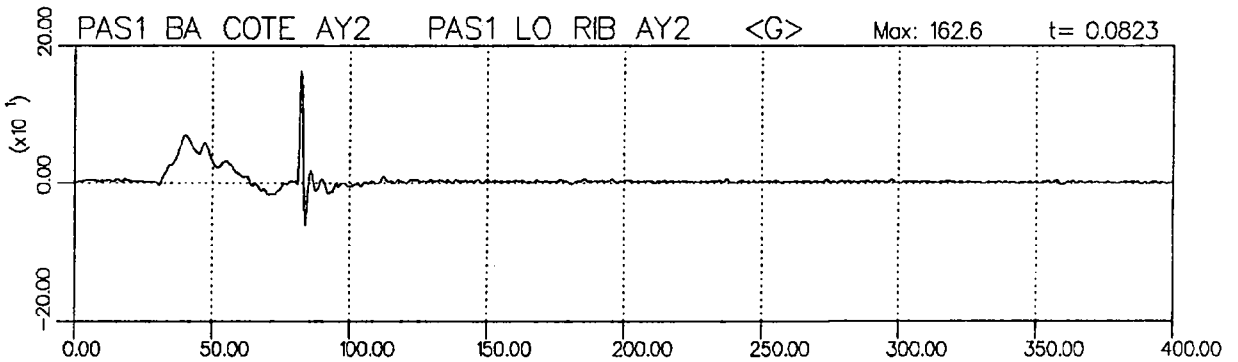
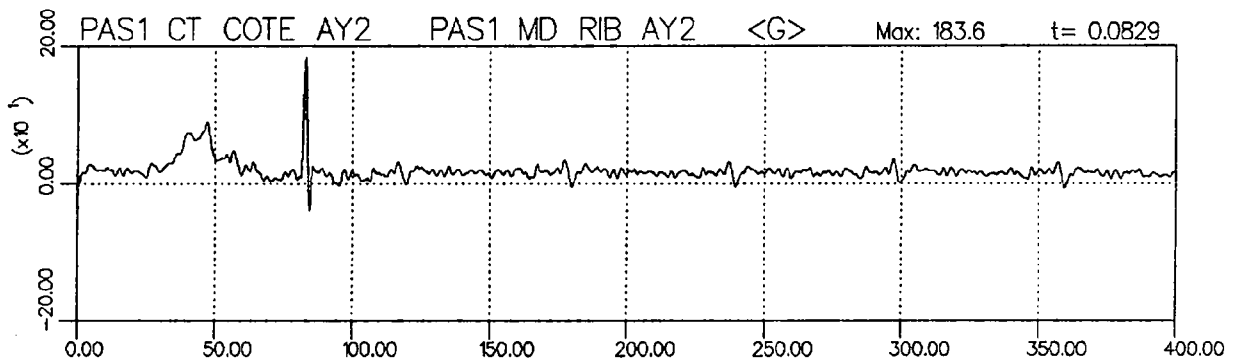
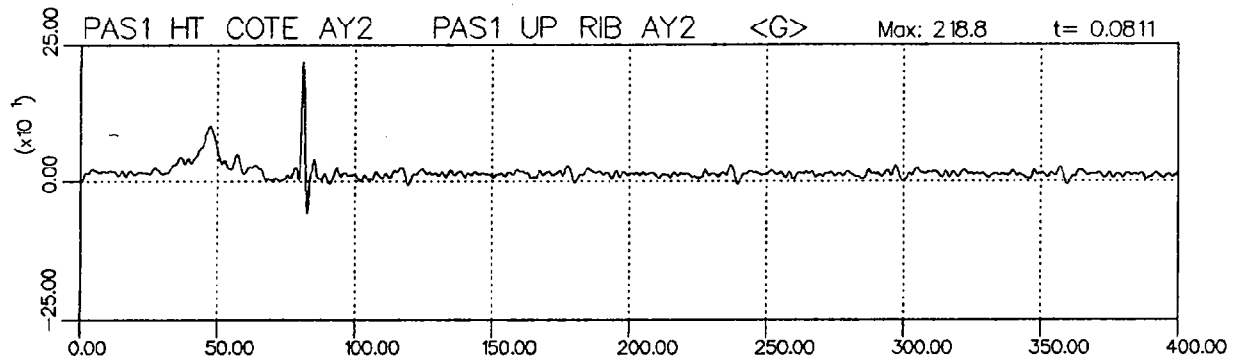
ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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*: ECHELLE HABITUELLE DEPASSEE
*: USUAL SCALE EXCEEDED



Transports Canada
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Transport Canada
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ESSAI DE COLLISION

COLL.LAT.A/W U.S.MOB.27DEG.

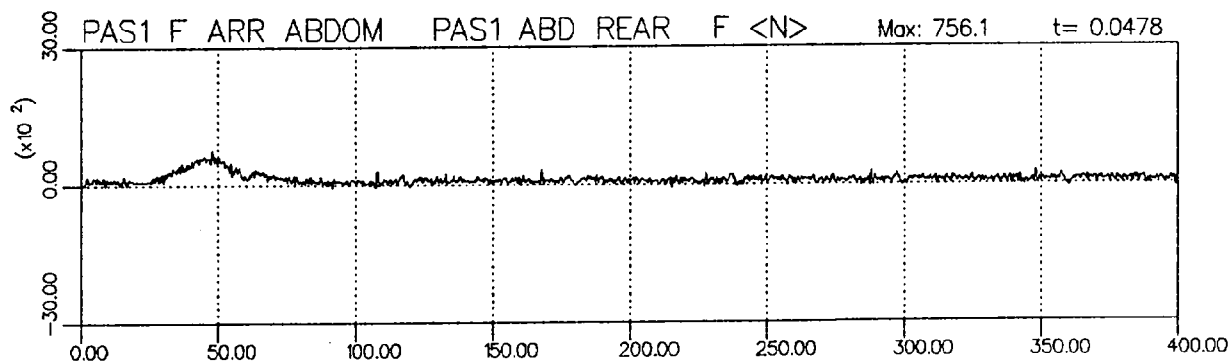
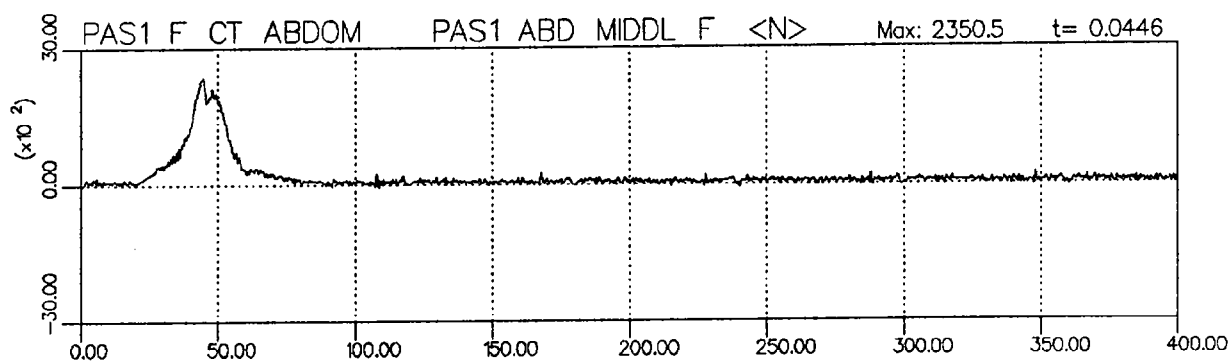
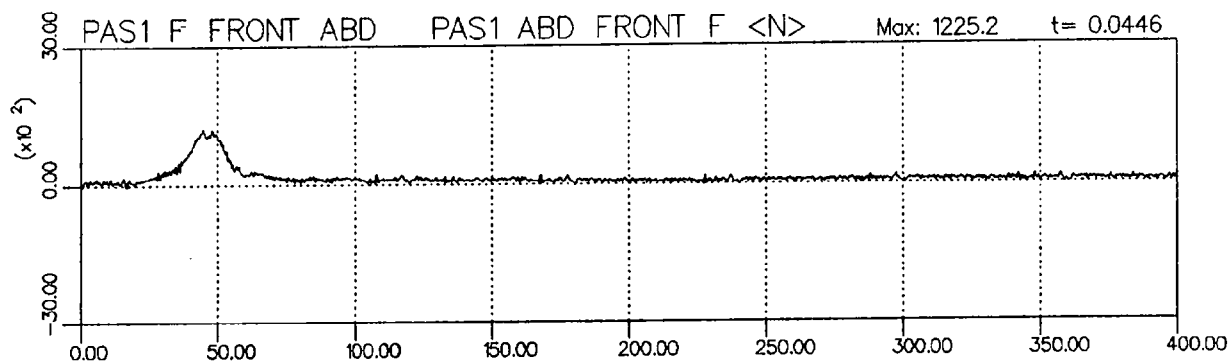
BARRIER IMPACT TEST

COLL.LAT.A/W U.S.MOB.27DEG.

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005





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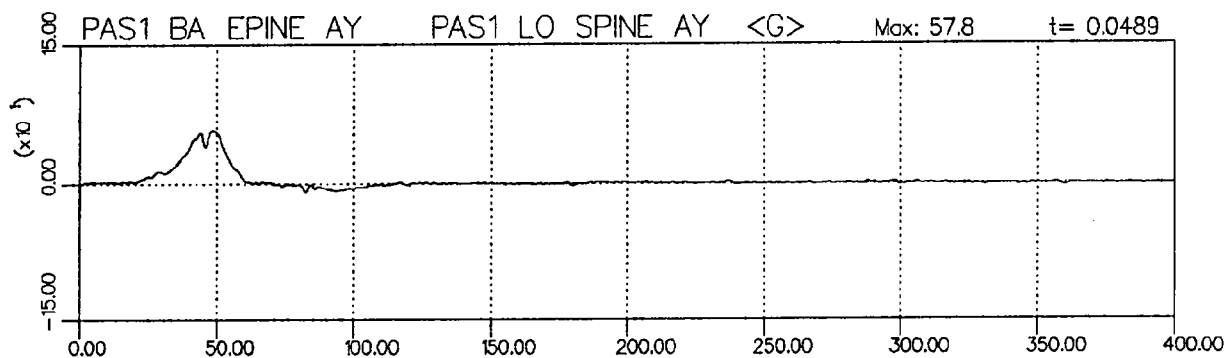
ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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Transports Canada
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Transport Canada
M.V.T.C.

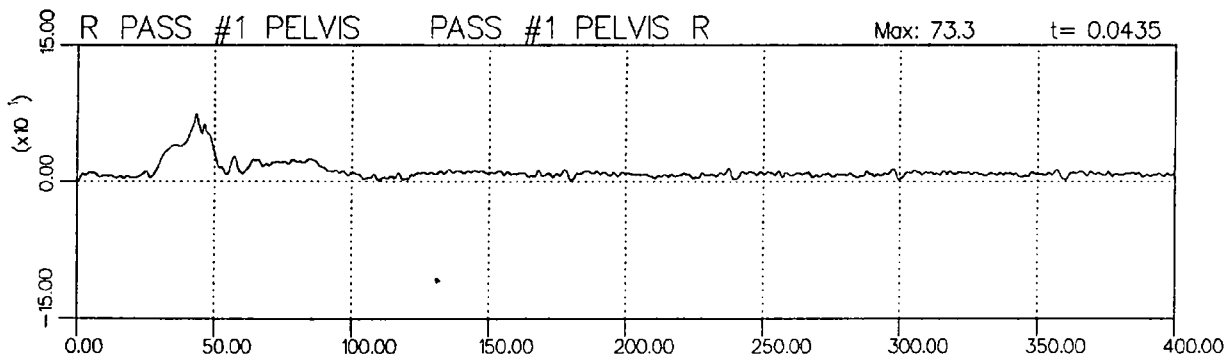
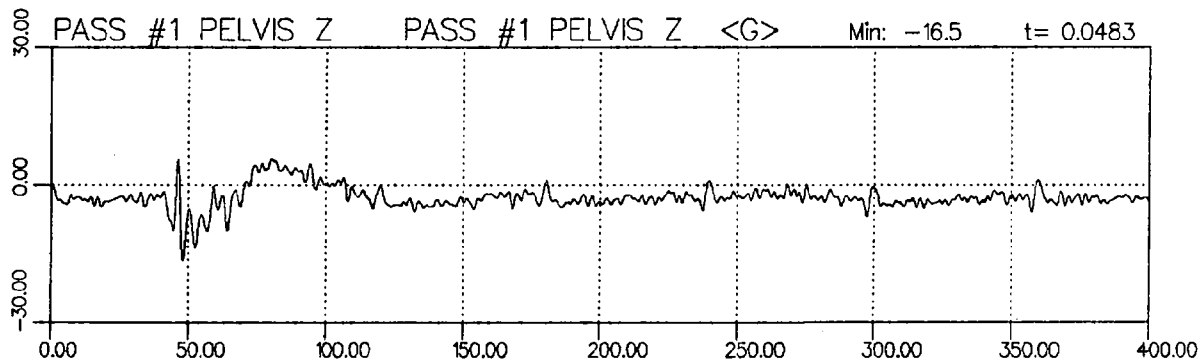
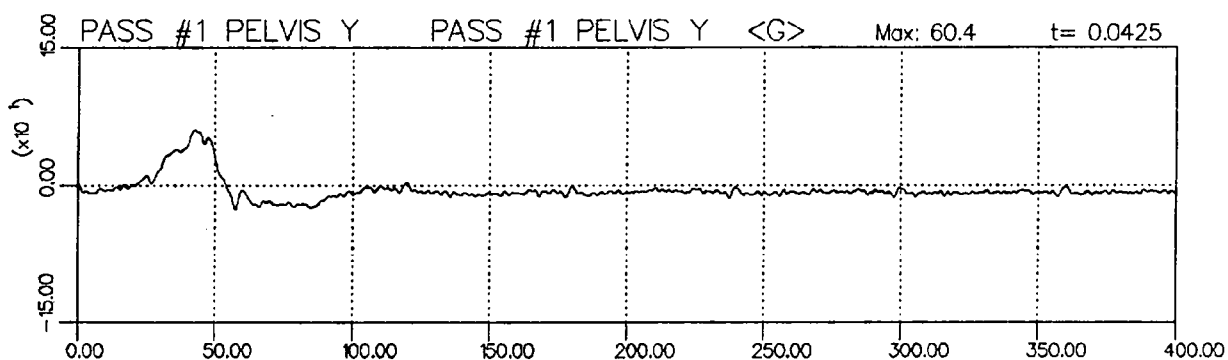
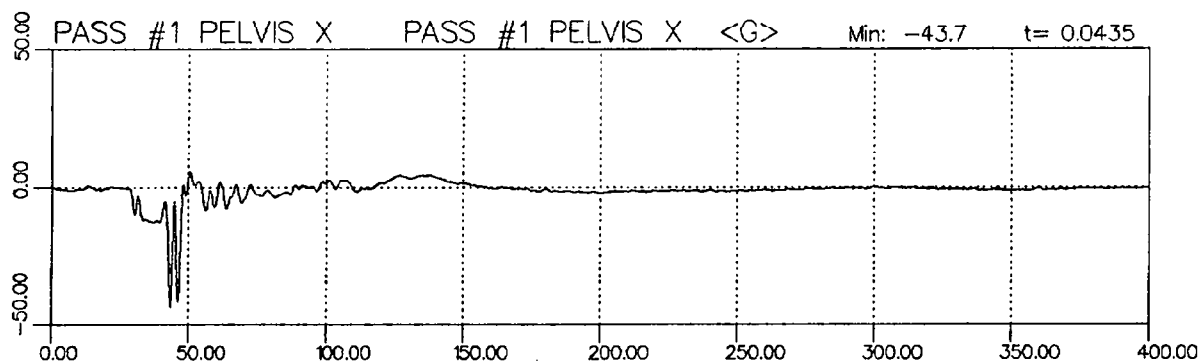
ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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*: ECHELLE HABITUELLE DEPASSEE

*: USUAL SCALE EXCEEDED



Transports Canada
C.E.V.A.

Transport Canada
M.V.T.C.

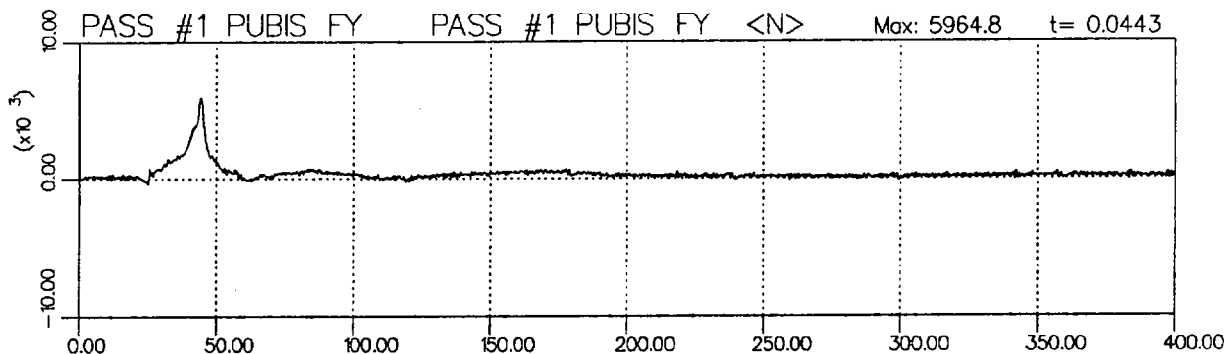
ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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*: ECHELLE HABITUELLE DEPASSEE
*: USUAL SCALE EXCEEDED



Transports Canada
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Transport Canada
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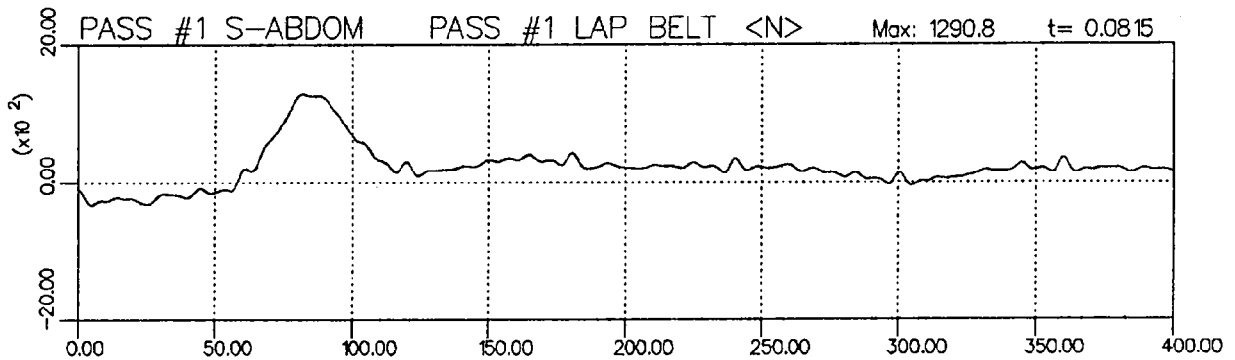
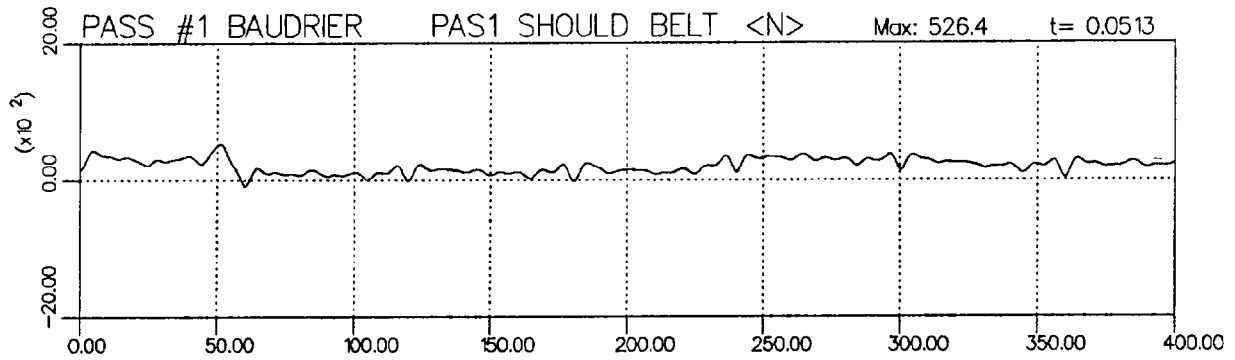
ESSAI DE COLLISION

COLLATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLLATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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ESSAI DE COLLISION

COLL.LATA/W U.S. MDB 27DEG

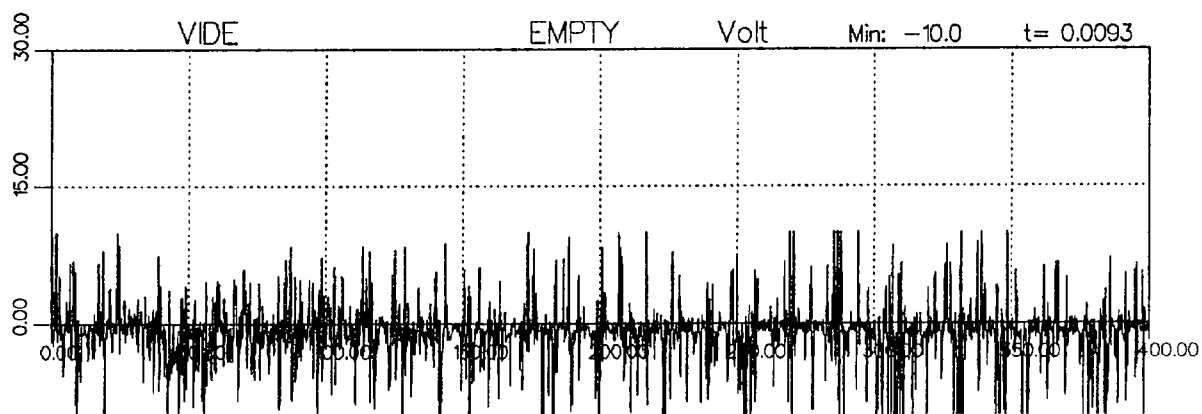
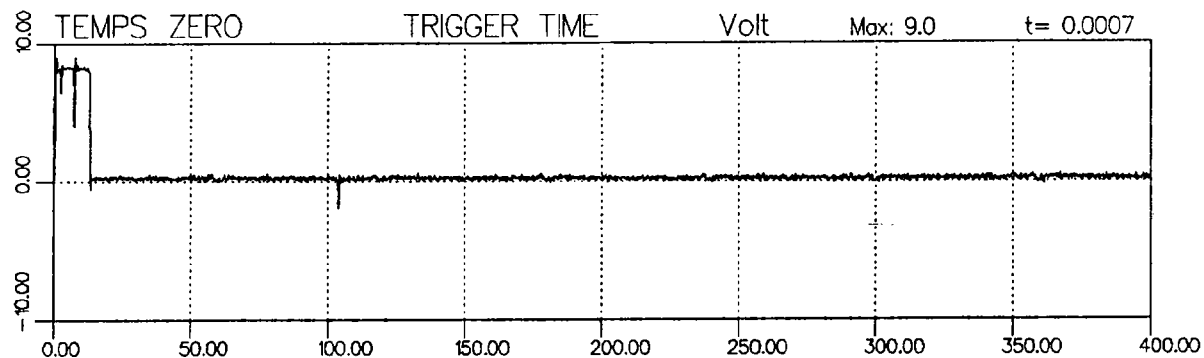
BARRIER IMPACT TEST

COLL.LATA/W U.S. MDB 27DEG

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005



*: ECHELLE HABITUELLE DEPASSEE
*: USUAL SCALE EXCEEDED



Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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CRITERE DE BLESSURE DE LA TETE / HEAD INJURY CRITERIA (HIC)

Nom du canal Channel name	HIC	T1 (sec)	T2 (sec)	INT (sec)	Méthode/Method
R CHAUFFEUR TETE DRIVER HEAD R	224.83	0.0493	0.0643	0.0150	Lim15
	258.43	0.0466	0.0785	0.0319	Lim36
	261.30	0.0458	0.1120	0.0662	Sans limite de temps No time limit
	N/A	N/A	N/A	N/A	Temps de contact Contact duration (1)

Nom du canal Channel name	HIC	T1 (sec)	T2 (sec)	INT (sec)	Méthode/Method
R PASS #1 TETE PASS #1 HEAD R	289.10	0.0477	0.0487	0.0010	Lim15
	289.10	0.0477	0.0487	0.0010	Lim36
	289.10	0.0477	0.0487	0.0010	Sans limite de temps No time limit
	N/A	N/A	N/A	N/A	Temps de contact Contact duration (1)

(1) L'algorithme ne fait pas la différence entre les contacts du menton au thorax et les autres contacts
The algorithm does not discriminate the chin to thorax contacts from other contacts



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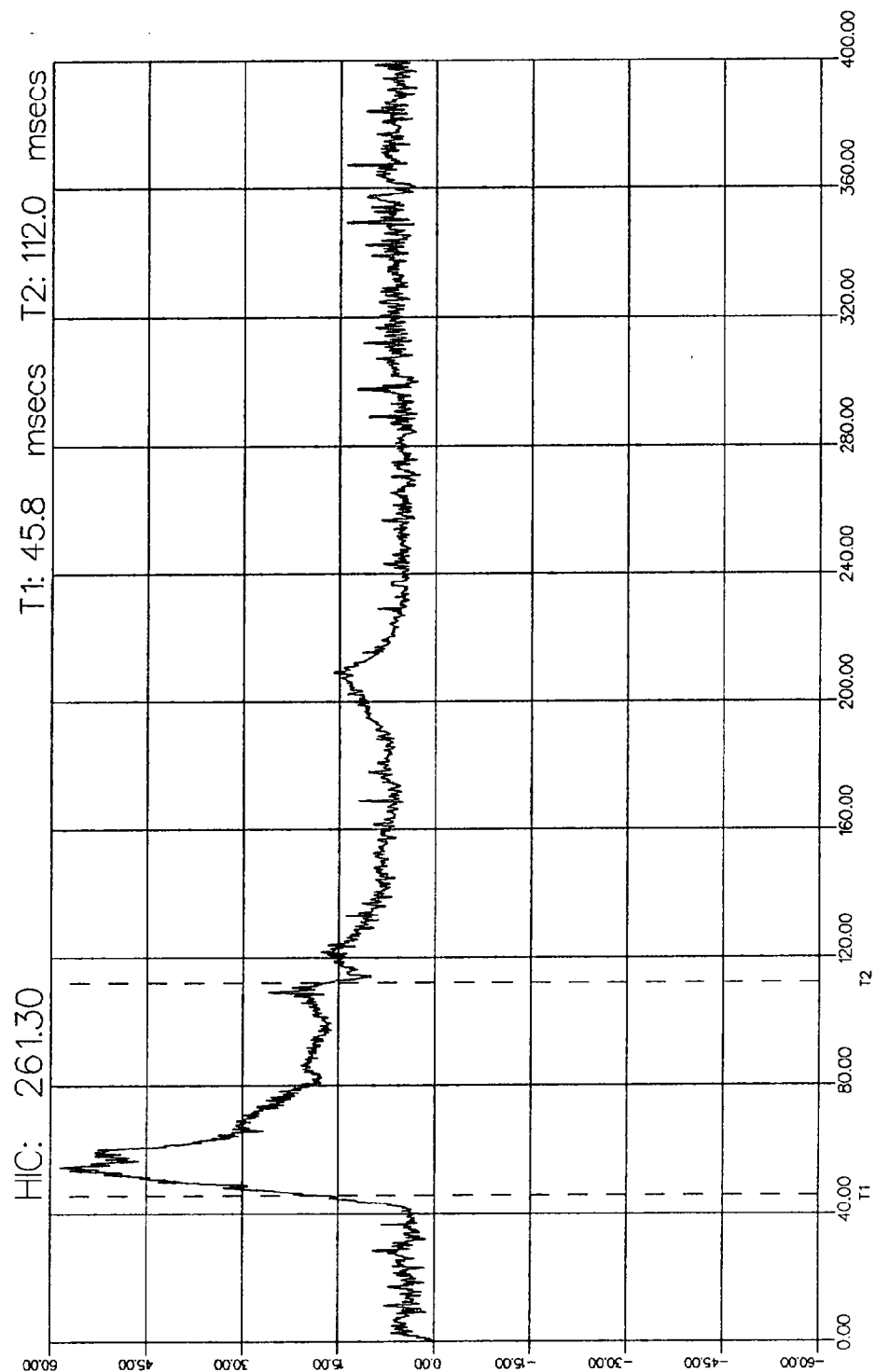
BARRIER IMPACT TEST
COLLATA/W USMOB 27DEG.

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEVILUMINA 91

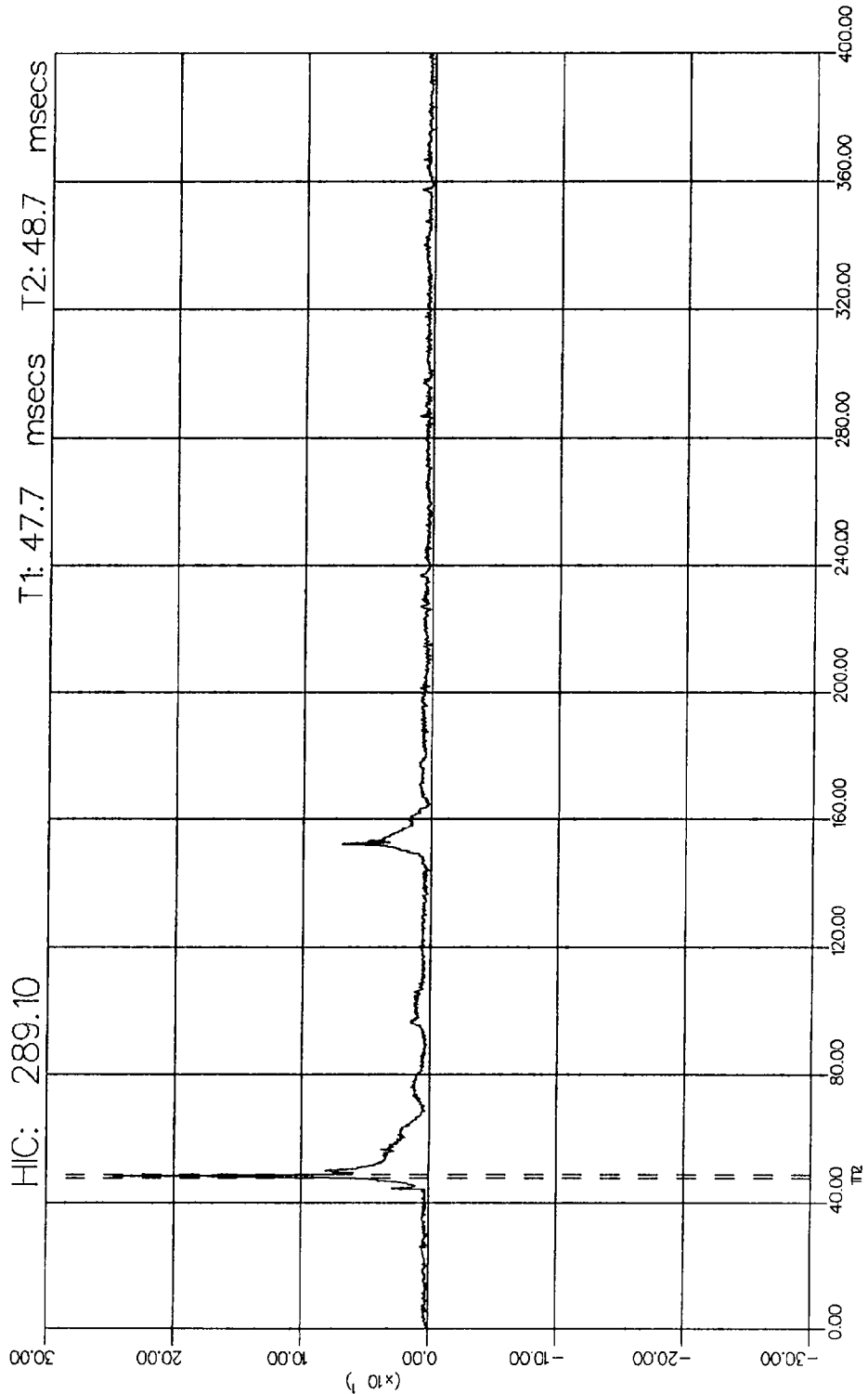
I.C. N°
T.C. No. 91-005

R CHAUFFEUR TETE DRIVER HEAD R



Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV LUMINA 91	T.C. N° T.C. No.	91-005
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R PASS #1 TETE PASS #1 HEAD R





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ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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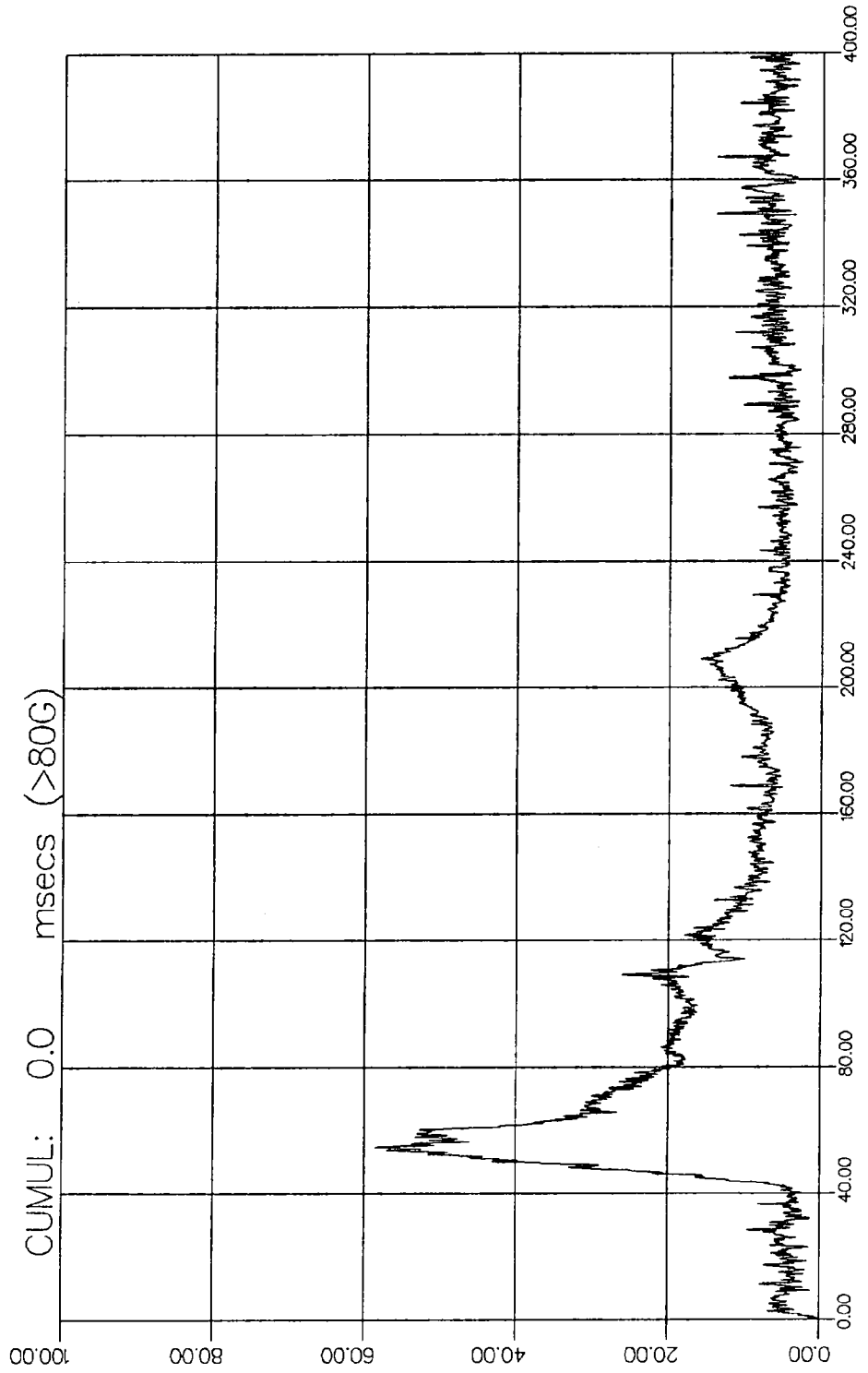
ACCELERATION DE LA TETE > 80 G / HEAD ACCELERATION > 80 G

Nom du canal Channel name	Cumulative Int. Cumulatif
R CHAUFFEUR TETE DRIVER HEAD R	0.0000 (Sec)

Nom du canal Channel name	Cumulative Int. Cumulatif
R PASS #1 TETE PASS #1 HEAD R	0.0010 (Sec)

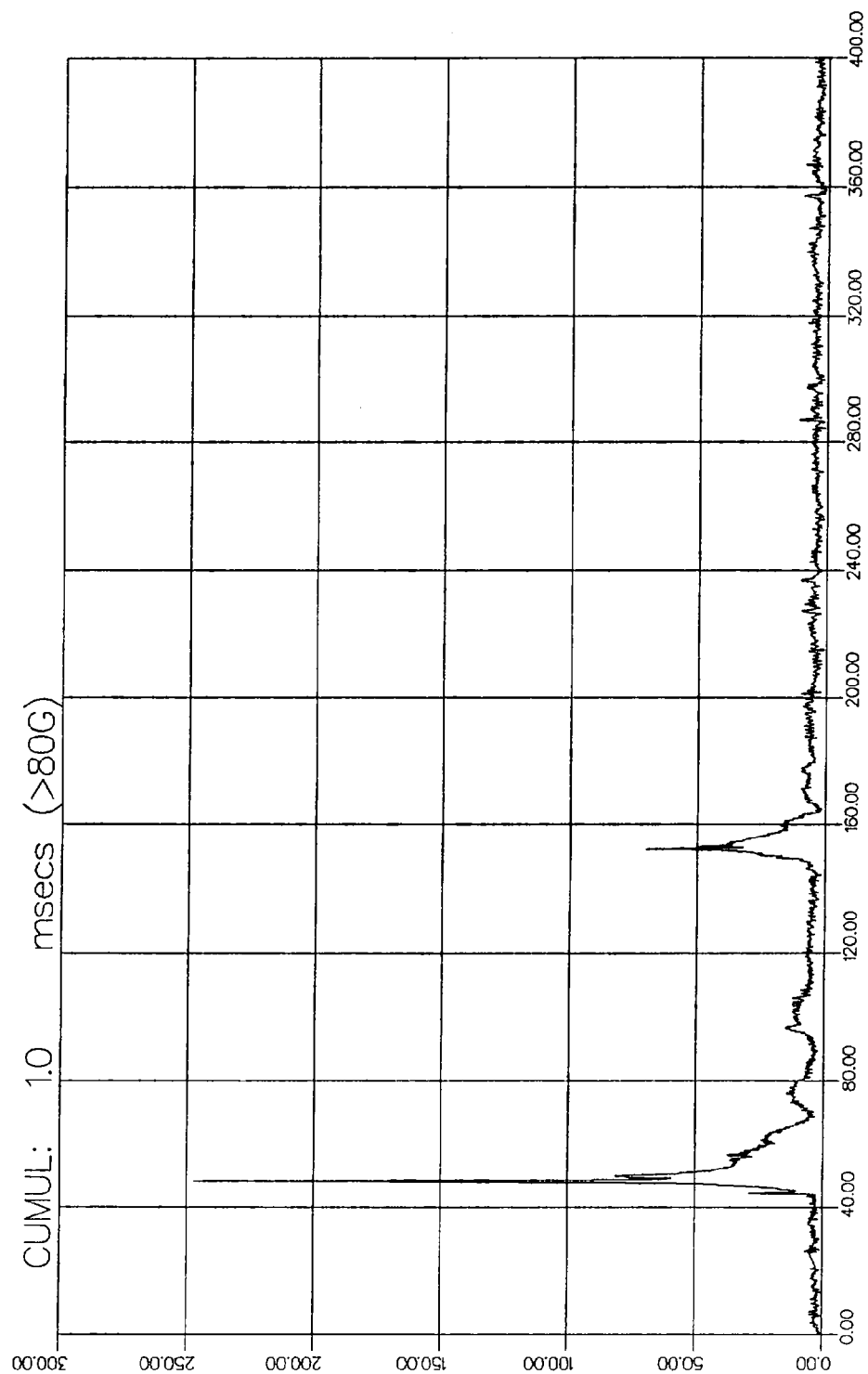
Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV/LUMINA 91	T.C. N° T.C. No.
				91-005

R CHAUFFEUR TETE DRIVER HEAD R



Date de collision Date impacted	04--SEP--92	Véhicule Vehicle	CHEV/LUMINA 91	T.C. N° T.C. No.	91-005
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R PASS #1 TETE PASS #1 HEAD R



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ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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INDICE DE TRAUMATISME THORACIQUE / THORAX TRAUMA INDEX

MAXIMUM DES CANAUX / CHANNEL'S MAXIMUM

TTI (Chauffeur/Driver)

84.66

NOM DU CANAL	CHANNEL NAME	VALEUR/VALUE	UNITE/UNIT
CHAU HT COTE AY1	DRIV UP RIB AY1	72.30	<G>
CHAU BA COTE AY1	DRIV LO RIB AY1	120.44	<G>
CHAU HT COTE AY2	DRIV UP RIB AY2	75.73	<G>
CHAU BA COTE AY2	DRIV LO RIB AY2	112.66	<G>
CHAU BA EPINE AY	DRIV LO SPINE AY	48.88	<G>

TTI (Passager #1/Passenger #1)

64.08

NOM DU CANAL	CHANNEL NAME	VALEUR/VALUE	UNITE/UNIT
PAS1 HT COTE AY1	PAS1 UP RIB AY1	75.32	<G>
PAS1 BA COTE AY1	PAS1 LO RIB AY1	62.39	<G>
PAS1 HT COTE AY2	PAS1 UP RIB AY2	78.74	<G>
PAS1 BA COTE AY2	PAS1 LO RIB AY2	61.27	<G>
PAS1 BA EPINE AY	PAS1 LO SPINE AY	52.85	<G>

$$TTI = \frac{\left| \begin{array}{l} \text{LE PLUS GRAND MAXIMUM ENTRE LA} \\ \text{COTE DU HAUT ET CELLE DU BAS} \end{array} \right|_{\max} + \left| \text{ACCELERATION DE L'EPINE} \right|}{2}$$

$$TTI = \frac{\left| \begin{array}{l} \text{THE GREATEST ACCELERATION} \\ \text{BETWEEN UPPER \& LOWER RIB} \end{array} \right|_{\max} + \left| \text{SPINE ACCELERATION} \right|}{2}$$



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ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

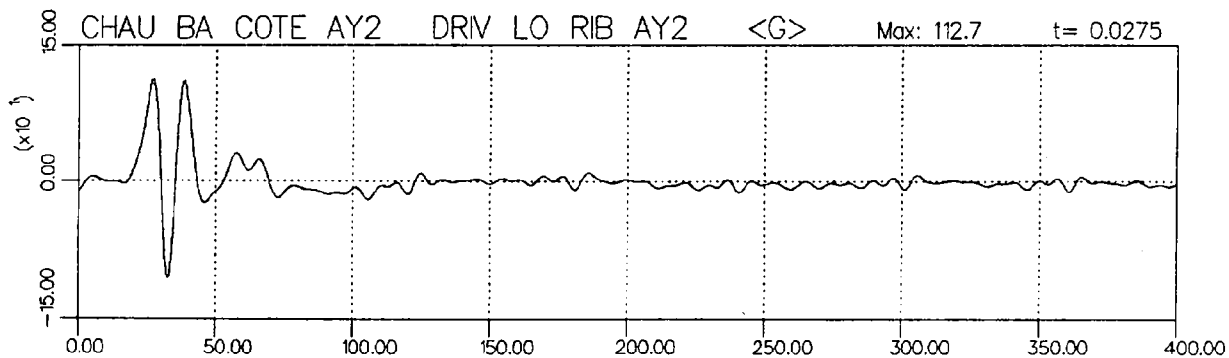
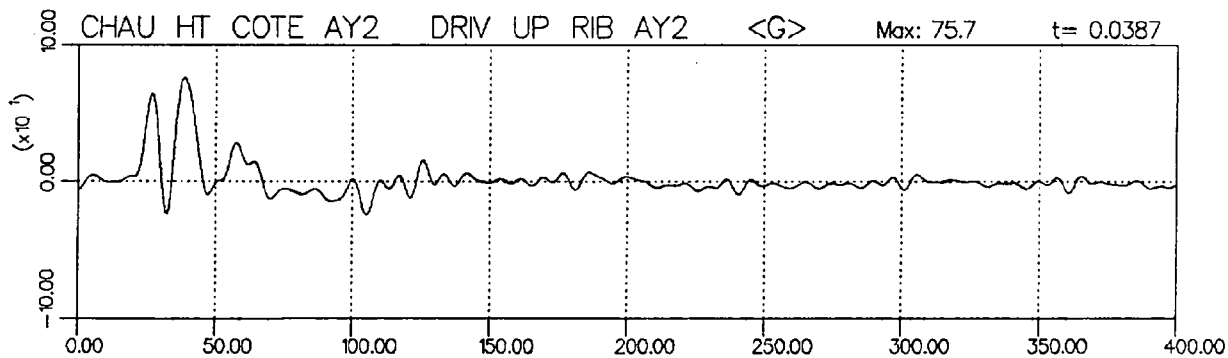
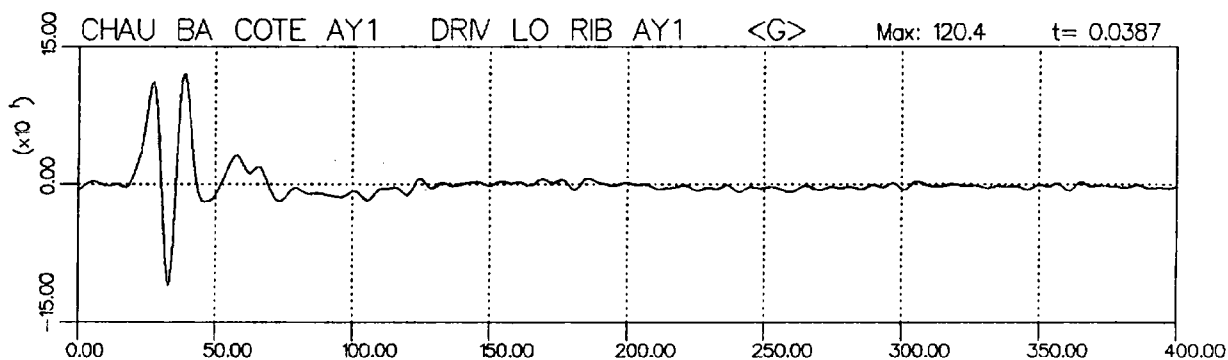
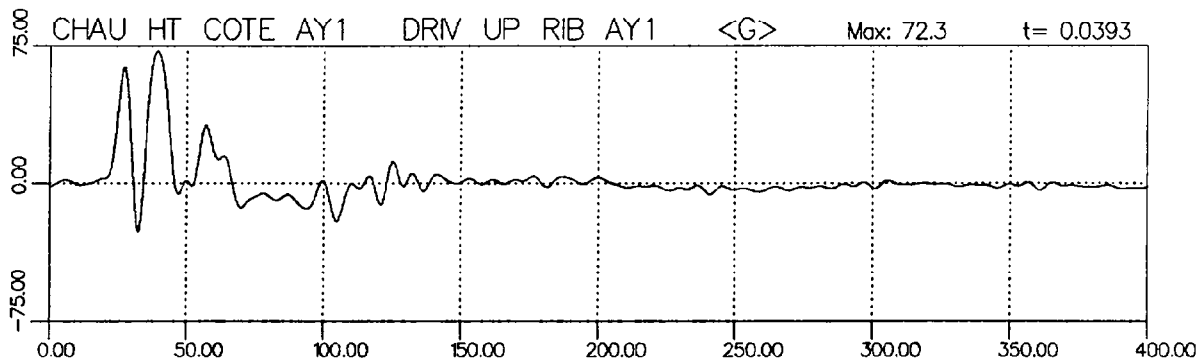
BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005





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Transport Canada
M.V.T.C.

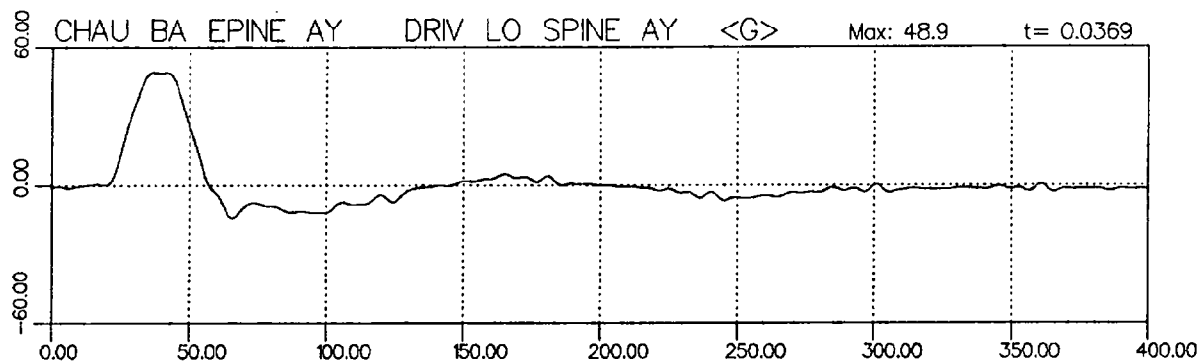
ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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Transports Canada
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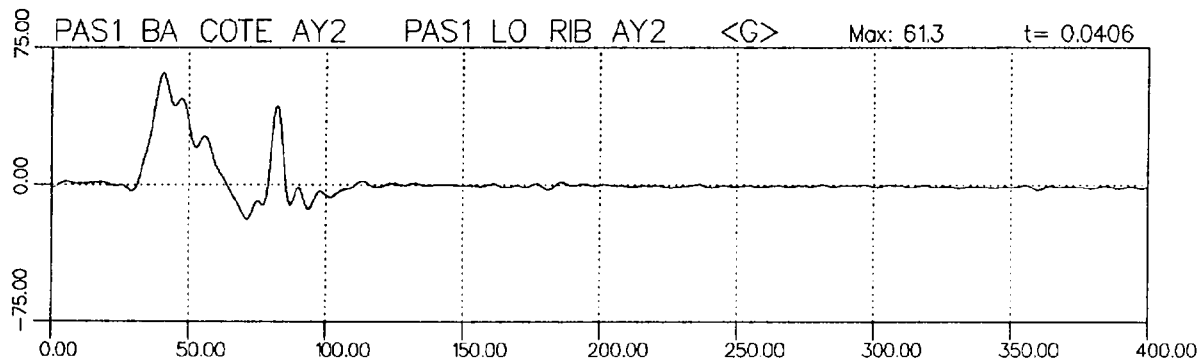
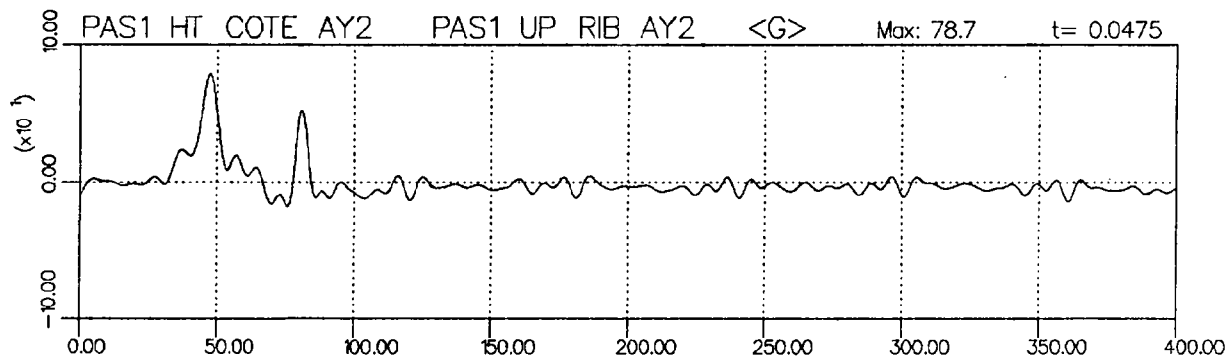
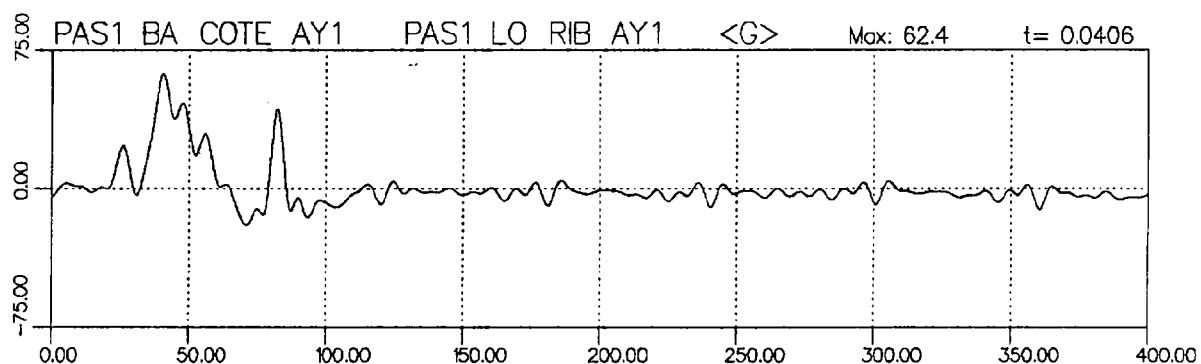
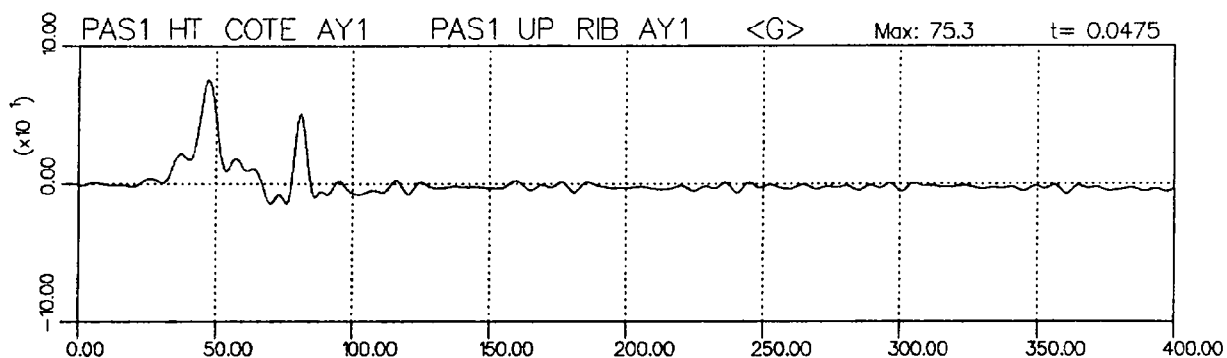
ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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Transports Canada
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Transport Canada
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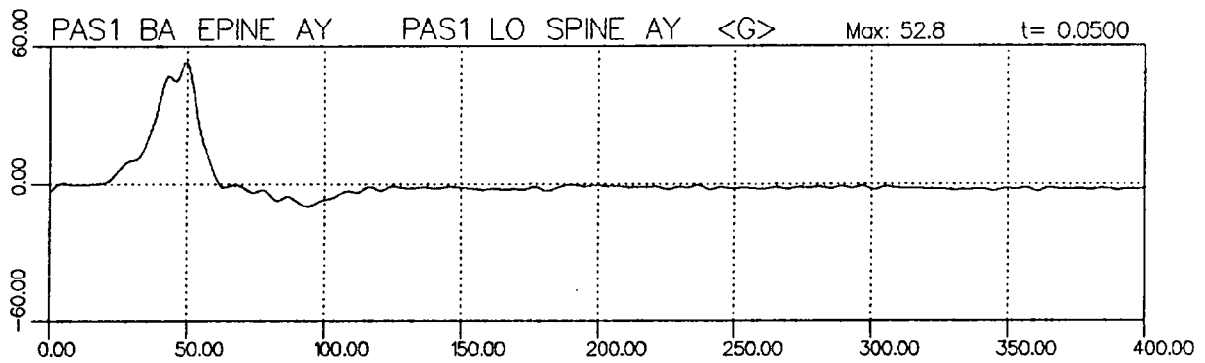
ESSAI DE COLLISION

COLLATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLLATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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Transports Canada
C.E.V.A.

Transport Canada
M.V.T.C.

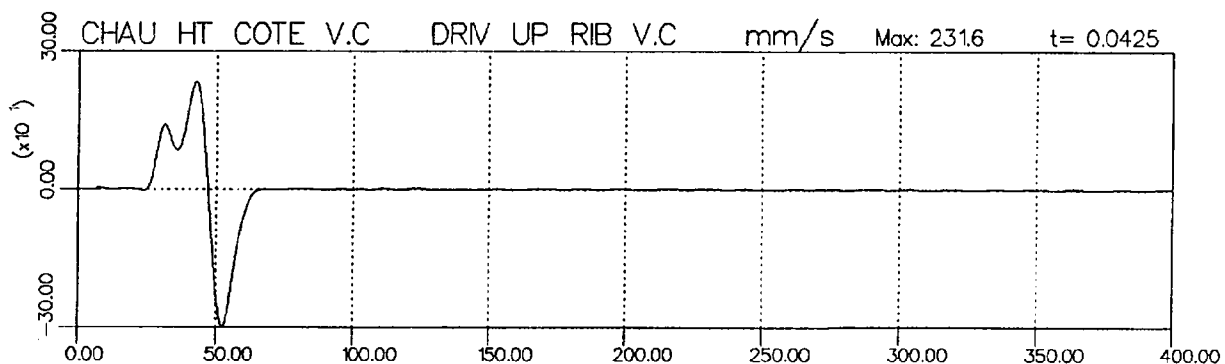
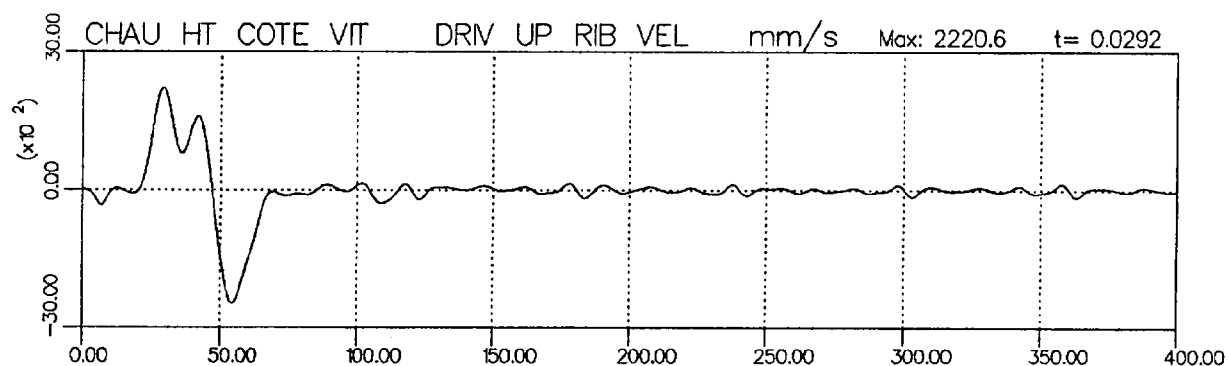
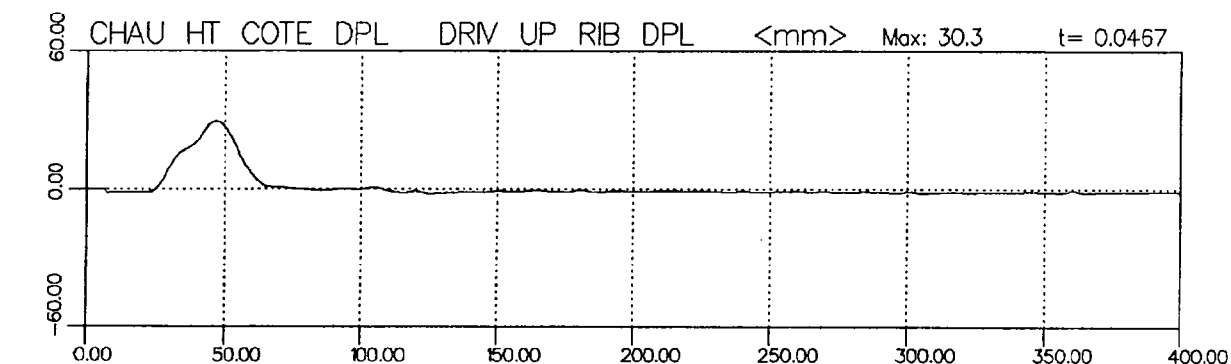
ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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BIOSID

Const= 174.50 mm

Filtre IIR 60/IIR Filter 60

Facteur d'échelle/Scale Factor :1.0



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Transport Canada
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ESSAI DE COLLISION

COLLATA/W U.S.MDB.27DEG.

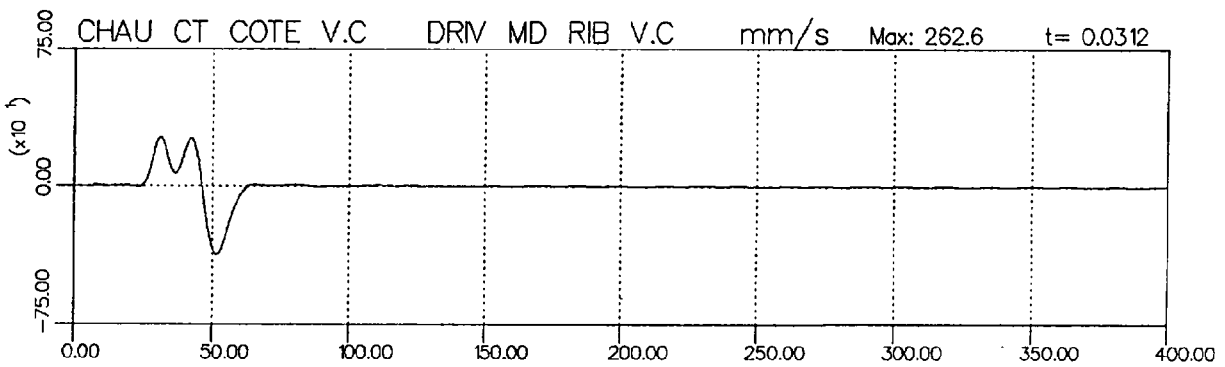
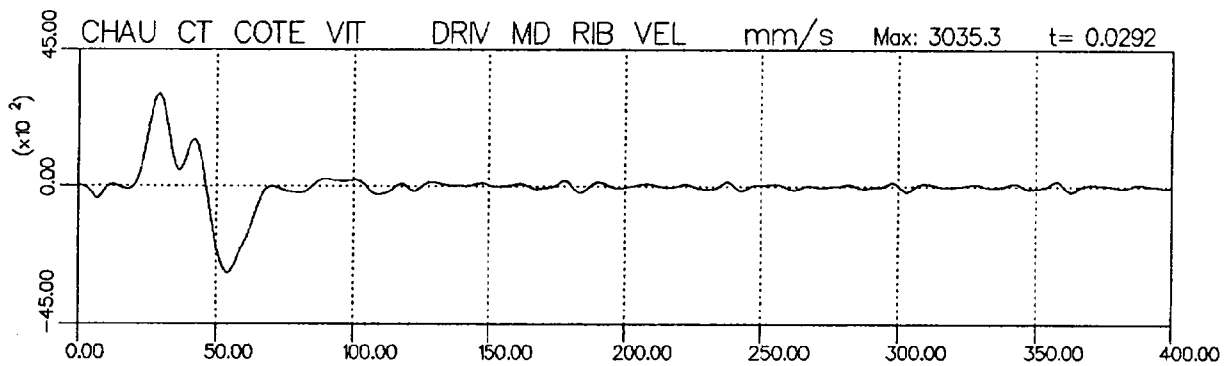
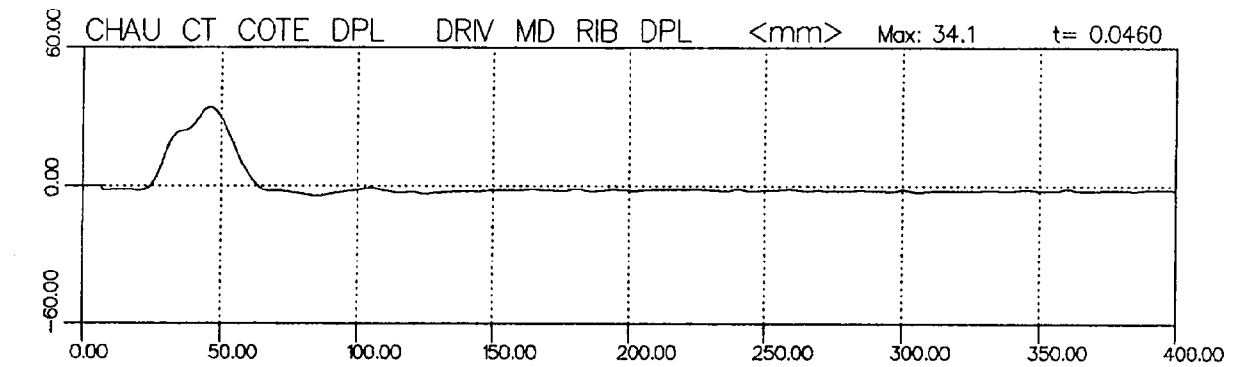
BARRIER IMPACT TEST

COLLATA/W U.S.MDB.27DEG.

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005



BIOSID

Const= 174.50 mm

Filtre IIR 60/IIR Filter 60

Facteur d'échelle/Scale Factor :1.0



Transports Canada
C.E.V.A.

Transport Canada
M.V.T.C.

ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

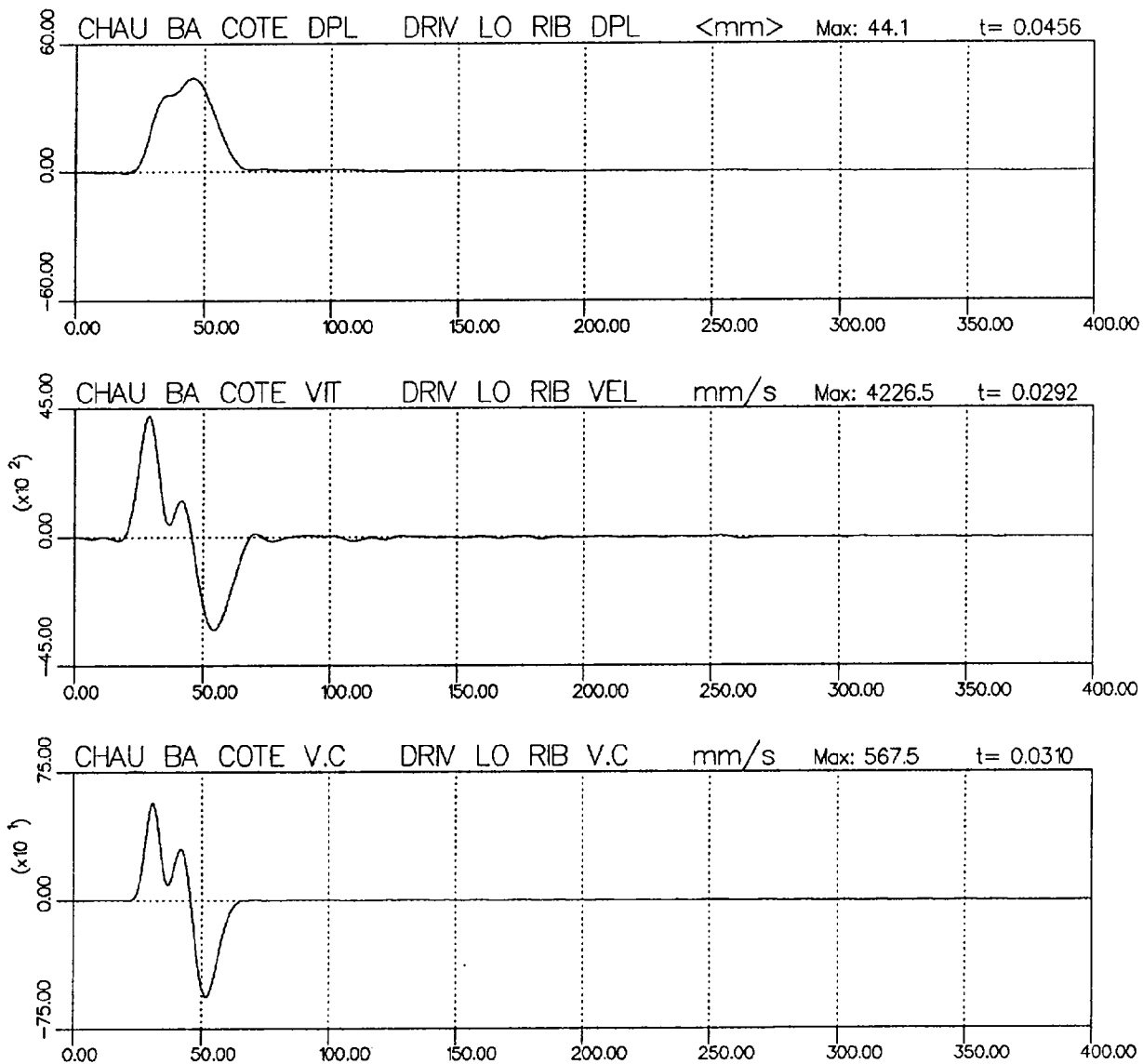
BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision 04-SEP-92
Date impacted

Véhicule CHEV.LUMINA 91
Vehicle

T.C. N° 91-005
T.C. No.



BIOSID

Const= 174.50 mm

Filtre IIR 60/IIR Filter 60

Facteur d'échelle/Scale Factor :1.0



Transports Canada
C.E.V.A.

Transport Canada
M.V.T.C.

ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

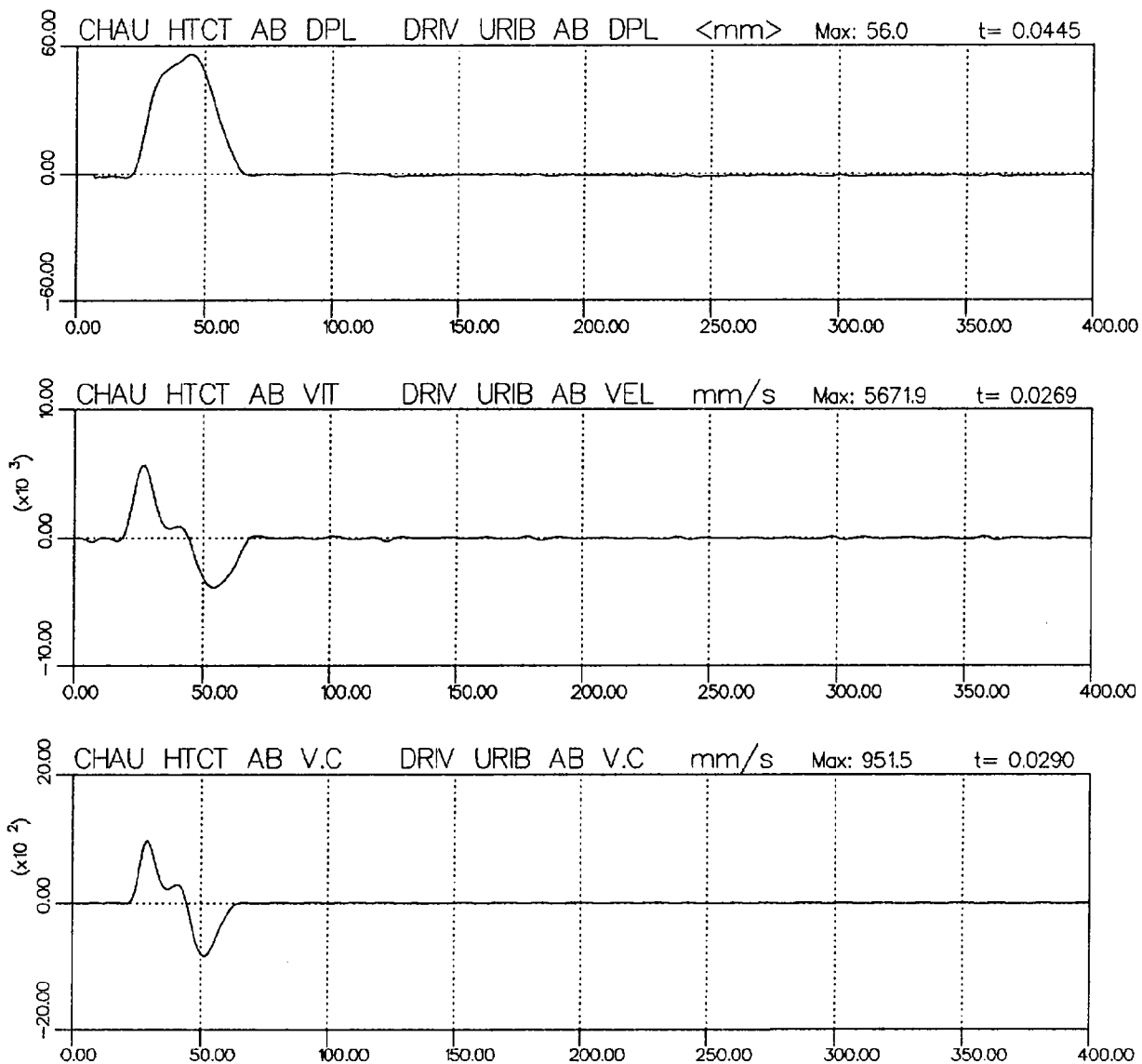
BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005



BIOSID

Const= 174.50 mm

Filtre IIR 60/IIR Filter 60

Facteur d'échelle/Scale Factor :1.0



Transports Canada
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Transport Canada
M.V.T.C.

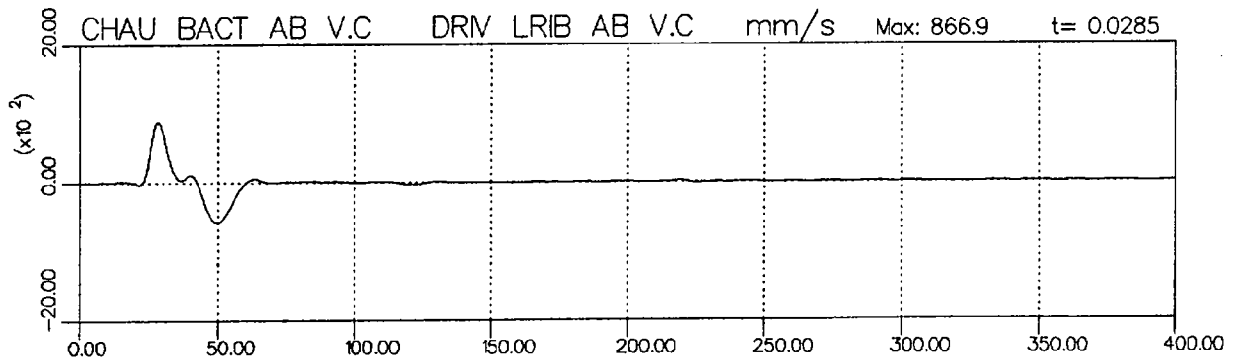
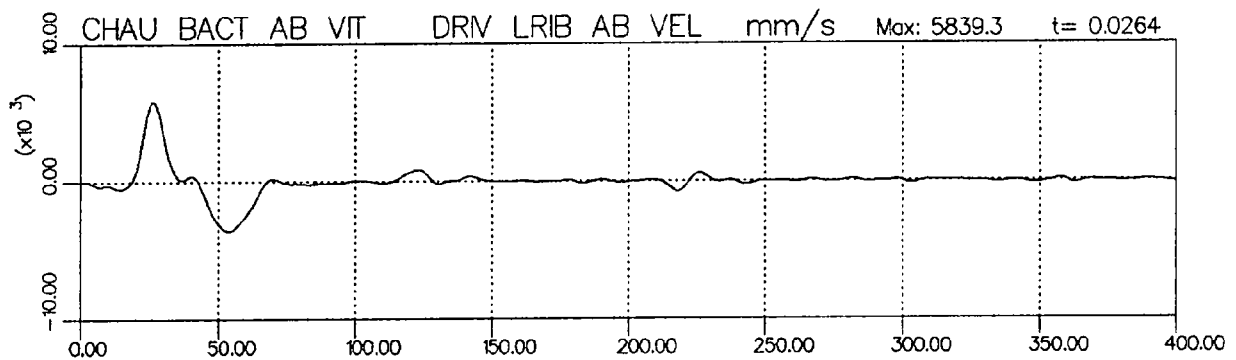
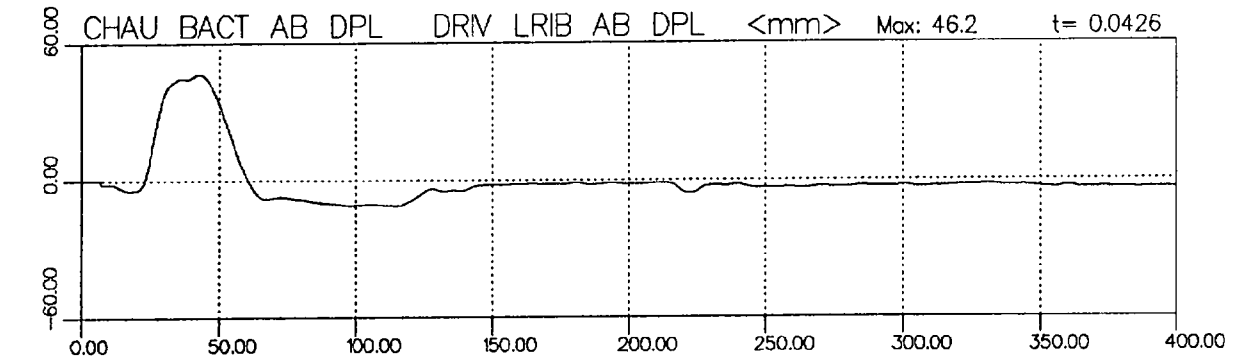
ESSAI DE COLLISION

COLLATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLLATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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BIOSID Const= 174.50 mm Filtre IIR 60/IIR Filter 60 Facteur d'échelle/Scale Factor :1.0



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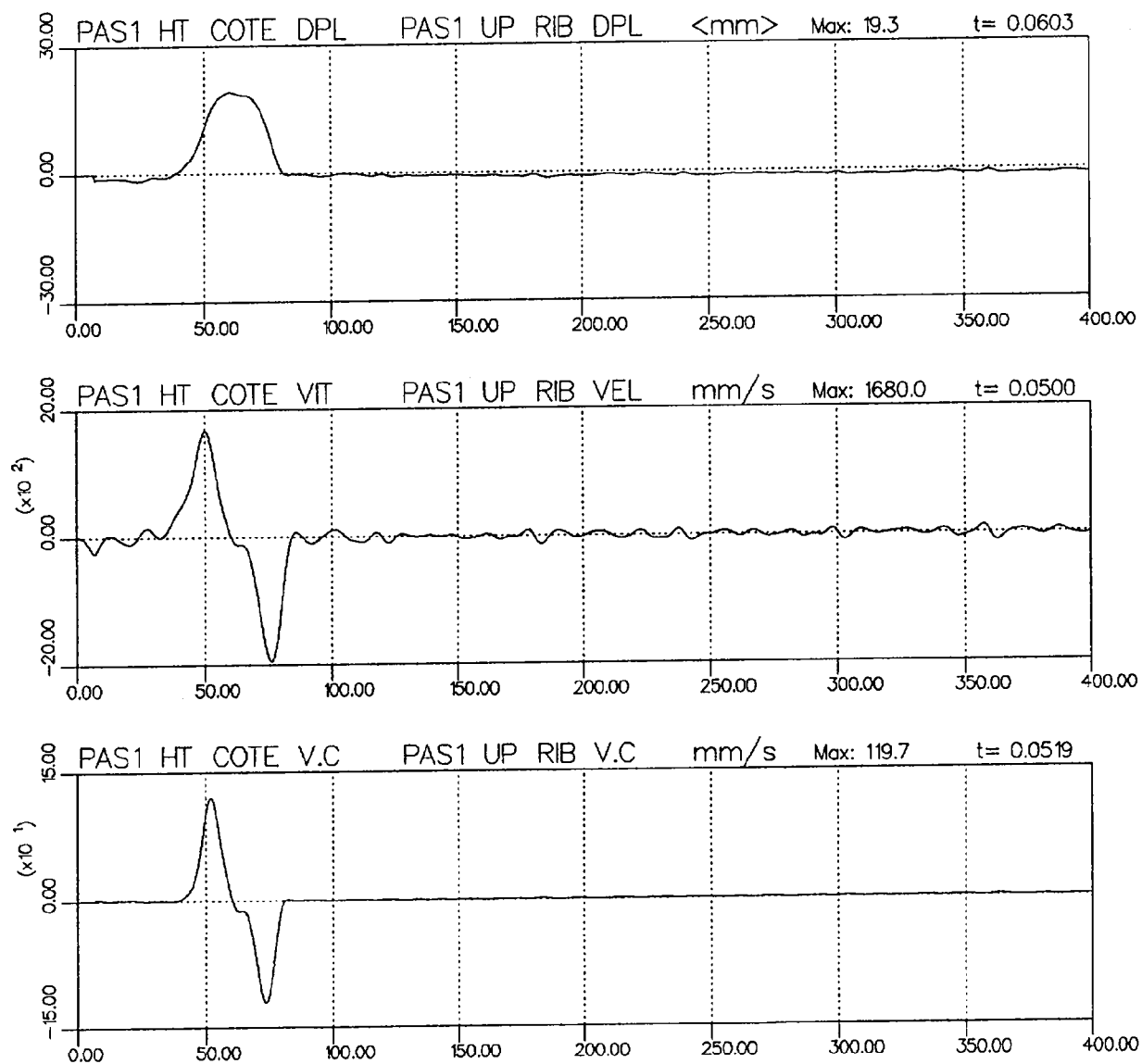
ESSAI DE COLLISION
COLLATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST
COLLATA/W U.S.MDB.27DEG.

Date de collision 04-SEP-92
Date impacted

Véhicule CHEV.LUMINA 91
Vehicle

T.C. N° 91-005
T.C. No.



EUROSID1 Const= 174.50 mm Filtre IR 60/IR Filter 60 Facteur d'échelle/Scale Factor :1.0



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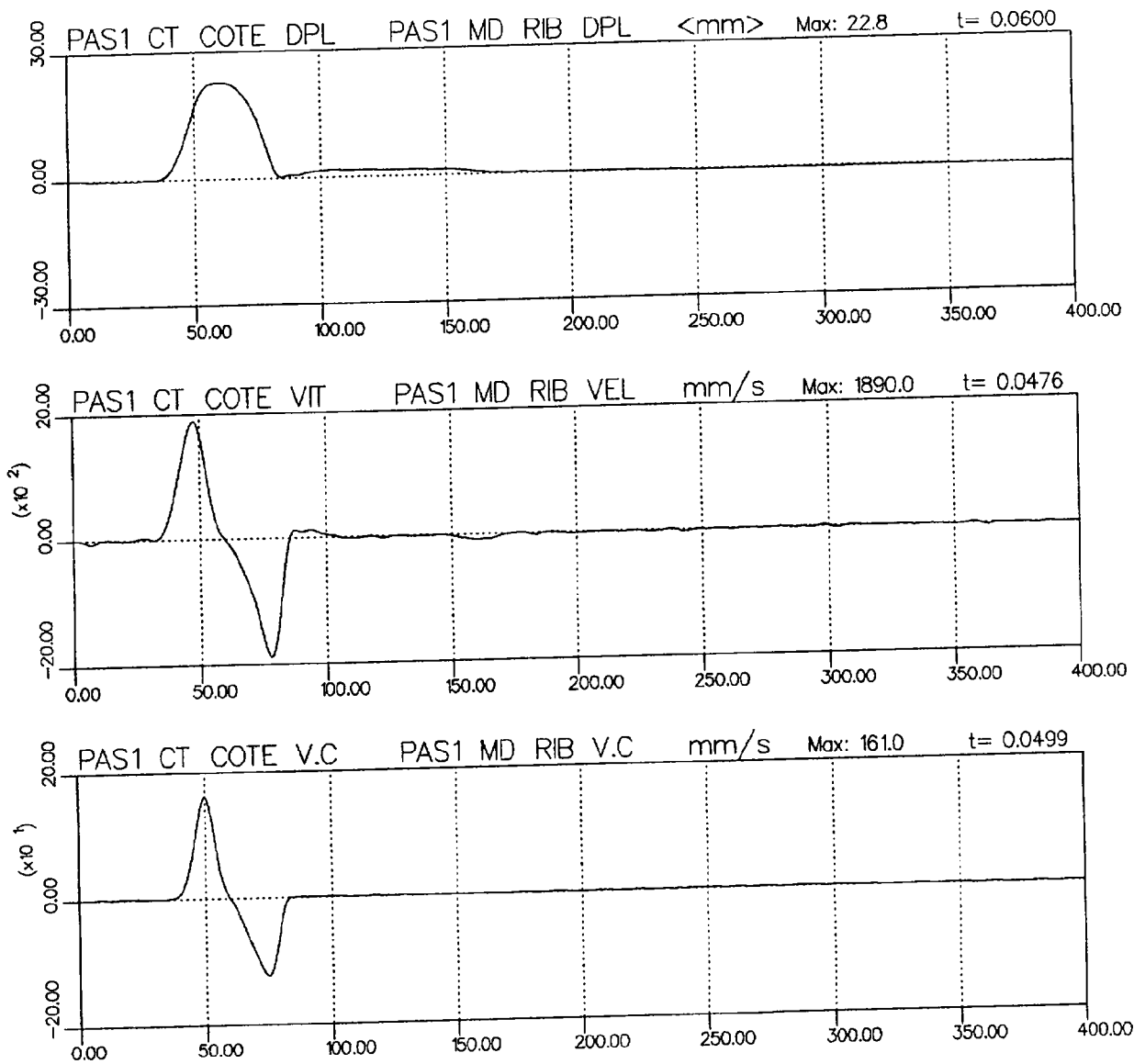
ESSAI DE COLLISION
COLLATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST
COLLATA/W U.S.MDB.27DEG.

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005



EUROSID1 Const= 174.50 mm Filtre IIR 60/IIR Filter 60 Facteur d'échelle/Scale Factor :1.0



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ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

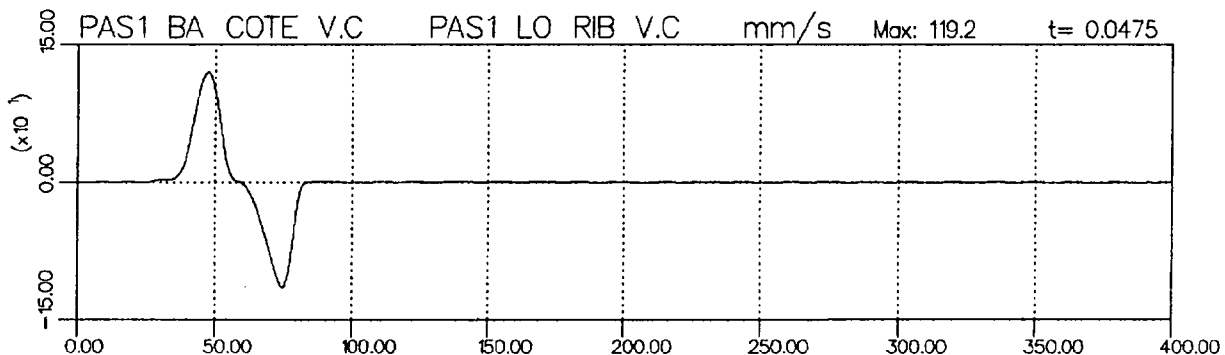
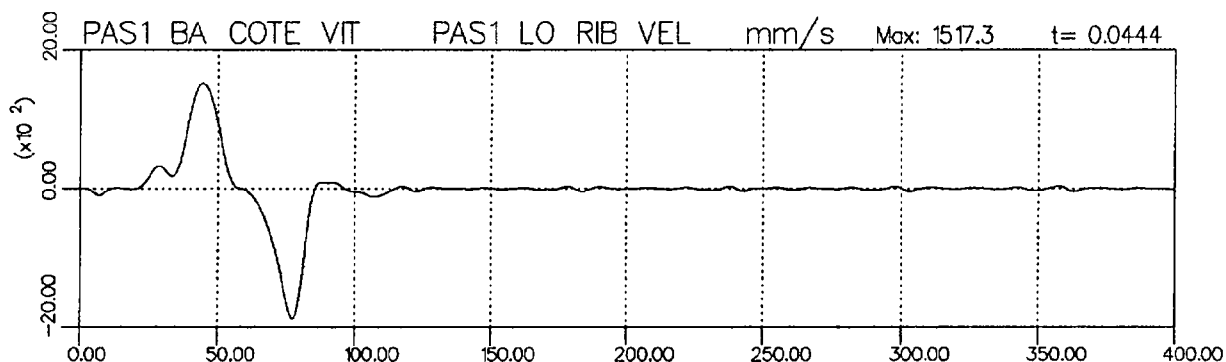
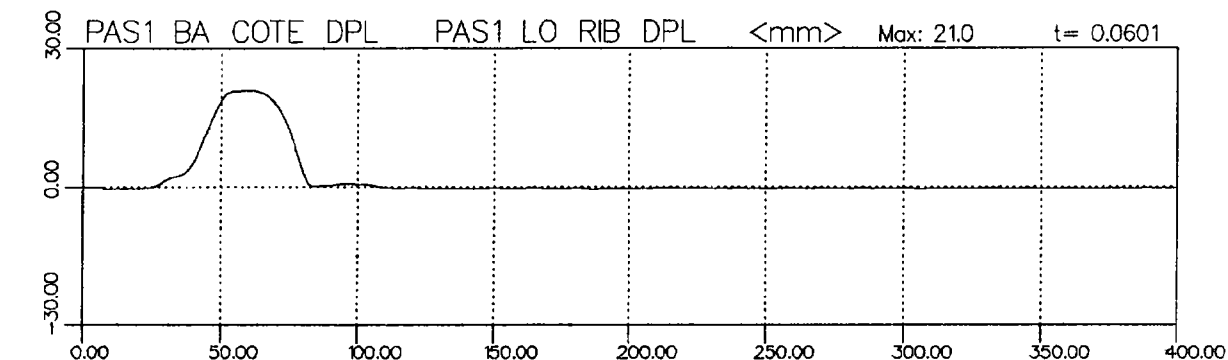
BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision
Date impacted 04-SEP-92

Véhicule
Vehicle CHEV.LUMINA 91

T.C. N°
T.C. No. 91-005

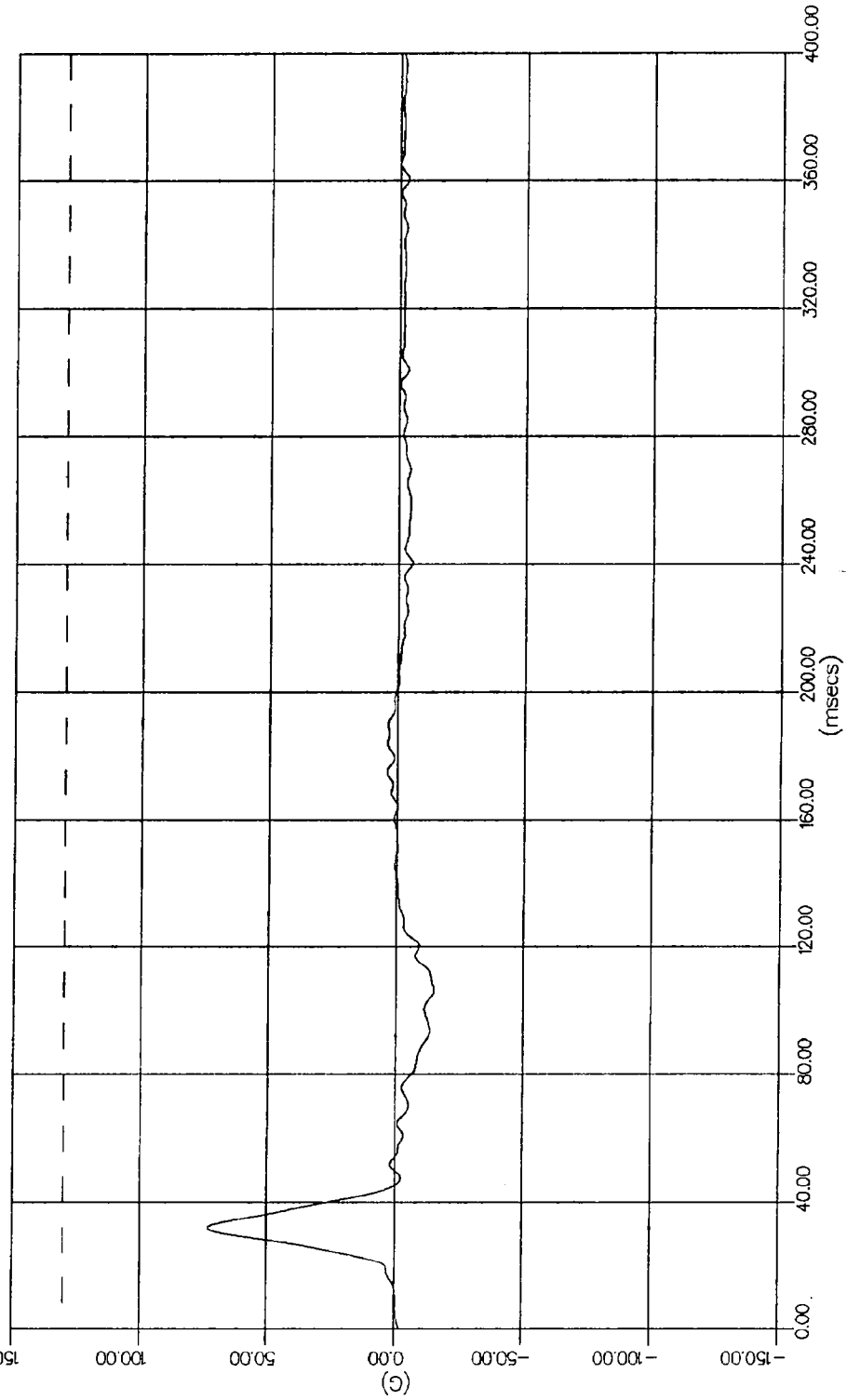


EUROSID1 Const= 174.50 mm Filtre IIR 60/IIR Filter 60

Facteur d'échelle/Scale Factor :1.0

Date de collision Date impacted 04-SEP-92		Véhicule Vehicle CHEV LUMINA 91		T.C. N° T.C. No. 91-005	
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CHAU PELVIS Y DRIVER PELVIS Y



MAX	73.36
T _{MAX}	31.9
MIN	-15.00
T _{MIN}	106.3
FILTRE FIR FIR FILTER 100	



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CEVA

Transport Canada
MVT.C

ESSAI DE COLLISION

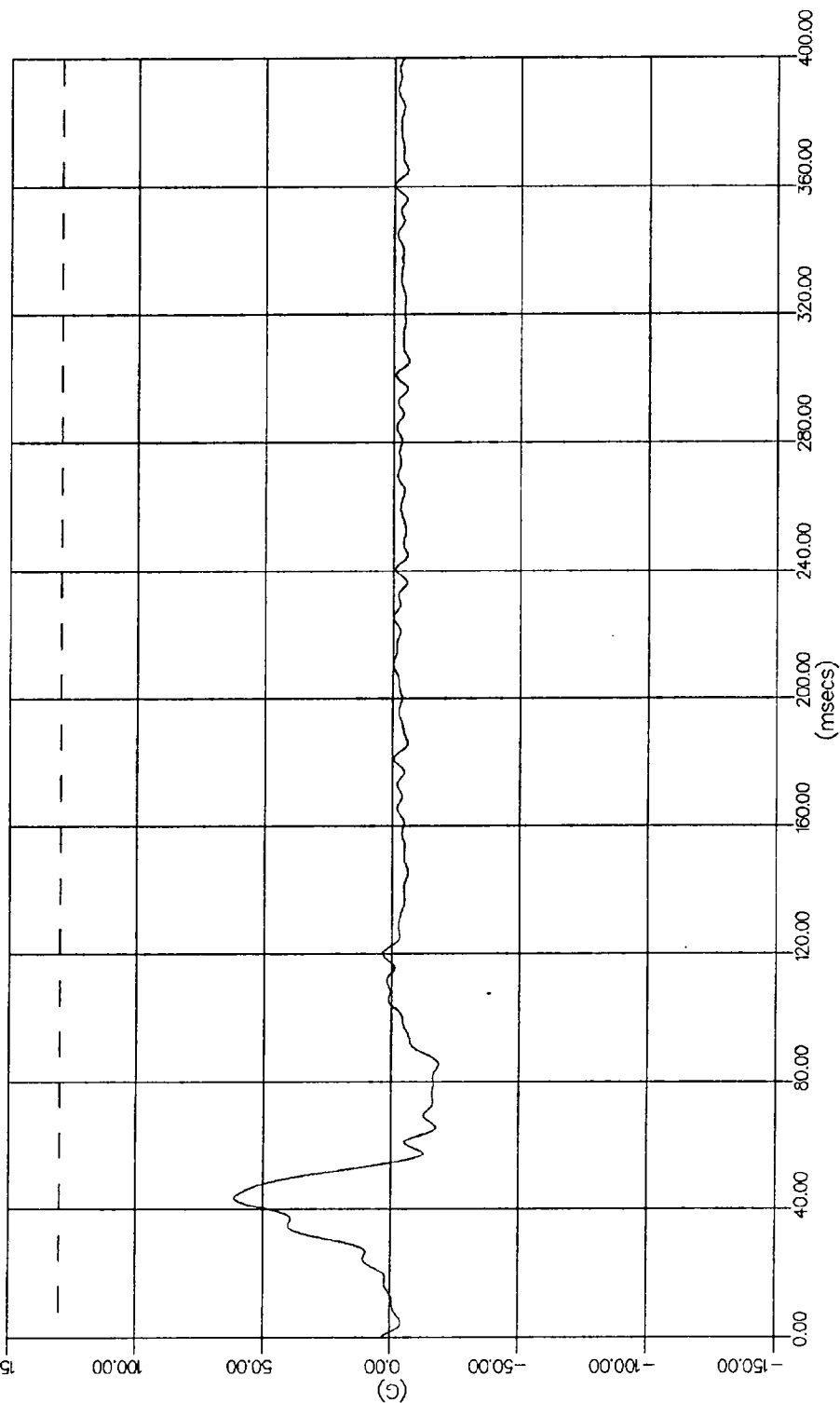
BARRIER IMPACT TEST

COLLIATA/W USMDB27DEG.

COLLIATA/W USMDB27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV/LUMINA 91	T.C. N° T.C. No.	91-005
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PASS #1 PELVIS Y PASS #1 PELVIS Y



MAX	61.26
T _{MAX}	43.7
MIN	-18.35
T _{MIN}	85.6
FILTRE FIR FIR FILTER 100	



Véhicule Vehicle	04-SEP-92	T.C. N° T.C. No.	CHEV.LUMINA 91	Date de collision Date impacted	91-005
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COMMENTAIRES / COMMENTS

C(2): Decalage de/Offset of 36 de/from 1 a/to 4096
C(3): Decalage de/Offset of 7 de/from 1 a/to 4096
C(4): Decalage de/Offset of -30 de/from 1 a/to 4096
C(5): Decalage de/Offset of 28 de/from 1 a/to 4096
C(6): Decalage de/Offset of 12 de/from 1 a/to 4096
C(7): Decalage de/Offset of -1076 de/from 1 a/to 4096
C(8): Decalage de/Offset of -1047 de/from 1 a/to 4096
C(9): Decalage de/Offset of -1070 de/from 1 a/to 4096
C(10): Decalage de/Offset of -30 de/from 1 a/to 4096
C(11): Decalage de/Offset of 84 de/from 1 a/to 4096
C(12): Decalage de/Offset of 92 de/from 1 a/to 4096
C(13): Decalage de/Offset of 96 de/from 1 a/to 4096
C(14): Decalage de/Offset of 13 de/from 1 a/to 4096
C(15): Decalage de/Offset of 10 de/from 1 a/to 4096
C(16): Decalage de/Offset of 9 de/from 1 a/to 4096
C(17): Decalage de/Offset of -31 de/from 1 a/to 4096
C(18): Decalage de/Offset of 27 de/from 1 a/to 4096
C(19): Decalage de/Offset of 55 de/from 1 a/to 4096
C(20): Decalage de/Offset of 36 de/from 1 a/to 4096
C(21): Decalage de/Offset of -19 de/from 1 a/to 4096
C(22): Decalage de/Offset of 16 de/from 1 a/to 4096
C(23): Decalage de/Offset of 33 de/from 1 a/to 4096
C(25): Decalage de/Offset of 73 de/from 1 a/to 4096
C(25): A ete inverse - this channel was reversed
C(26): Decalage de/Offset of 83 de/from 1 a/to 4096
C(27): A ete inverse - this channel was reversed
C(28): Decalage de/Offset of 77 de/from 1 a/to 4096
C(1): Transitoire repare de 224 a 249 - Glitch removed from 224 to 249
C(1): Transitoire repare de 209 a 262 - Glitch removed from 209 to 262
C(2): Transitoire repare de 205 a 258 - Glitch removed from 205 to 258
C(3): Transitoire repare de 208 a 258 - Glitch removed from 208 to 258
C(4): Transitoire repare de 208 a 258 - Glitch removed from 208 to 258
C(5): Transitoire repare de 208 a 258 - Glitch removed from 208 to 258
C(6): Transitoire repare de 208 a 258 - Glitch removed from 208 to 258
C(7): Transitoire repare de 206 a 264 - Glitch removed from 206 to 264
C(8): Transitoire repare de 208 a 258 - Glitch removed from 208 to 258
C(9): Transitoire repare de 208 a 265 - Glitch removed from 208 to 265
C(10): Transitoire repare de 208 a 258 - Glitch removed from 208 to 258
C(11): Transitoire repare de 208 a 258 - Glitch removed from 208 to 258
C(12): Transitoire repare de 208 a 258 - Glitch removed from 208 to 258



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BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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COMMENTAIRES / COMMENTS

C(13): Transitoire repare de 208 a 258 - Glitch removed from 208 to 258
C(14): Transitoire repare de 208 a 259 - Glitch removed from 208 to 259
C(15): Transitoire repare de 207 a 296 - Glitch removed from 207 to 296
C(16): Transitoire repare de 204 a 258 - Glitch removed from 204 to 258
C(17): Transitoire repare de 208 a 274 - Glitch removed from 208 to 274
C(18): Transitoire repare de 202 a 268 - Glitch removed from 202 to 268
C(19): Transitoire repare de 208 a 261 - Glitch removed from 208 to 261
C(20): Transitoire repare de 207 a 267 - Glitch removed from 207 to 267
C(21): Transitoire repare de 207 a 259 - Glitch removed from 207 to 259
C(22): Transitoire repare de 207 a 281 - Glitch removed from 207 to 281
C(23): Transitoire repare de 209 a 252 - Glitch removed from 209 to 252
C(25): Transitoire repare de 209 a 257 - Glitch removed from 209 to 257
C(26): Transitoire repare de 204 a 266 - Glitch removed from 204 to 266
C(27): Transitoire repare de 206 a 272 - Glitch removed from 206 to 272
C(28): Transitoire repare de 207 a 267 - Glitch removed from 207 to 267



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ESSAI DE COLLISION

COLLATA/W U.S.MDB 27DEG.

BARRIER IMPACT TEST

COLLATA/W U.S.MDB 27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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COMMENTAIRES / COMMENTS

C(1):	Decalage de/Offset of	6 de/from	1 a/to 4096
C(2):	Decalage de/Offset of	9 de/from	1 a/to 4096
C(3):	Decalage de/Offset of	14 de/from	1 a/to 4096
C(4):	Decalage de/Offset of	29 de/from	1 a/to 4096
C(5):	Decalage de/Offset of	20 de/from	1 a/to 4096
C(6):	Decalage de/Offset of	30 de/from	1 a/to 4096
C(7):	Decalage de/Offset of	38 de/from	1 a/to 4096
C(8):	Decalage de/Offset of	-853 de/from	1 a/to 4096
C(9):	Decalage de/Offset of	25 de/from	1 a/to 4096
C(10):	Decalage de/Offset of	32 de/from	1 a/to 4096
C(11):	Decalage de/Offset of	-10 de/from	1 a/to 4096
C(12):	Decalage de/Offset of	44 de/from	1 a/to 4096
C(13):	Decalage de/Offset of	-918 de/from	1 a/to 4096
C(14):	Decalage de/Offset of	-894 de/from	1 a/to 4096
C(15):	Decalage de/Offset of	-869 de/from	1 a/to 4096
C(16):	Decalage de/Offset of	-5 de/from	1 a/to 4096
C(17):	Decalage de/Offset of	-9 de/from	1 a/to 4096
C(18):	Decalage de/Offset of	7 de/from	1 a/to 4096
C(19):	Decalage de/Offset of	-5 de/from	1 a/to 4096
C(20):	Decalage de/Offset of	4 de/from	1 a/to 4096
C(21):	Decalage de/Offset of	-4 de/from	1 a/to 4096
C(22):	Decalage de/Offset of	3 de/from	1 a/to 4096
C(24):	Decalage de/Offset of	6 de/from	1 a/to 4096
C(25):	Decalage de/Offset of	10 de/from	1 a/to 4096
C(26):	Decalage de/Offset of	5 de/from	1 a/to 4096
C(27):	Decalage de/Offset of	-812 de/from	1 a/to 4096
C(28):	Decalage de/Offset of	10 de/from	1 a/to 4096



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ESSAI DE COLLISION

COLL.LATA/W U.S. MDB 27DEG

BARRIER IMPACT TEST

COLL.LATA/W U.S. MDB 27DEG

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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COMMENTAIRES / COMMENTS

C(1): Decalage de/Offset of 13 de/from 1 a/to 4096
C(2): Decalage de/Offset of -12 de/from 1 a/to 4096
C(3): Decalage de/Offset of 31 de/from 1 a/to 4096
C(6): Decalage de/Offset of -26 de/from 1 a/to 4096
C(7): Decalage de/Offset of 28 de/from 1 a/to 4096
C(9): Decalage de/Offset of 49 de/from 1 a/to 4096
C(10): Decalage de/Offset of -12 de/from 1 a/to 4096
C(11): Decalage de/Offset of 36 de/from 1 a/to 4096
C(12): Decalage de/Offset of 447 de/from 1 a/to 4096
C(13): Decalage de/Offset of 16 de/from 1 a/to 4096
C(14): Decalage de/Offset of 60 de/from 1 a/to 4096
C(16): Decalage de/Offset of 11 de/from 1 a/to 4096
C(17): Decalage de/Offset of 23 de/from 1 a/to 4096
C(18): Decalage de/Offset of 35 de/from 1 a/to 4096
C(19): Decalage de/Offset of 30 de/from 1 a/to 4096
C(21): Decalage de/Offset of -831 de/from 1 a/to 4096
C(22): Decalage de/Offset of 13 de/from 1 a/to 4096
C(23): Decalage de/Offset of 17 de/from 1 a/to 4096
C(24): Decalage de/Offset of -11 de/from 1 a/to 4096
C(25): Decalage de/Offset of 41 de/from 1 a/to 4096
C(26): Decalage de/Offset of 49 de/from 1 a/to 4096
C(27): Decalage de/Offset of 16 de/from 1 a/to 4096

LES DONNEES DU CANAL 70 (VEH.LOC#6) NE SONT PAS VALIDES.
THE DATA OF CHANNEL 70 (VEH.LOC.#6) ARE NOT VALID.



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ESSAI DE COLLISION

COLL.LATA/W U.S.MDB.27DEG.

BARRIER IMPACT TEST

COLL.LATA/W U.S.MDB.27DEG.

Date de collision Date impacted	04-SEP-92	Véhicule Vehicle	CHEV.LUMINA 91	T.C. N° T.C. No.	91-005
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COMMENTAIRES / COMMENTS

C(1):	Decalage de/Offset of	21 de/from	1 a/to 4096
C(2):	Decalage de/Offset of	28 de/from	1 a/to 4096
C(3):	Decalage de/Offset of	34 de/from	1 a/to 4096
C(4):	Decalage de/Offset of	11 de/from	1 a/to 4096
C(5):	Decalage de/Offset of	95 de/from	1 a/to 4096

SECTION 6

PHOTOGRAPHIES - PHOTOGRAPHS



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1992	T.C. N° T.C. No	91-005
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01. ÉTIQUETTE DE CONFORMITÉ
CERTIFICATION LABEL



02. ÉTIQUETTE D'INFORMATION DE CAPACITÉ DES PNEUS
TIRE CAPACITY INFORMATION LABEL



Date de collision Date impacted:	92/09/04	Véhicule Vehicle:	CHEVROLET LUMINA 1991	T.C. N° T.C. No	91-005
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N/A

03. NUMÉRO D'IDENTIFICATION DU VÉHICULE
VEHICLE IDENTIFICATION LABEL



04. MARQUE NATIONALE DE SÉCURITÉ
NATIONAL SAFETY MARK



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No	91-005
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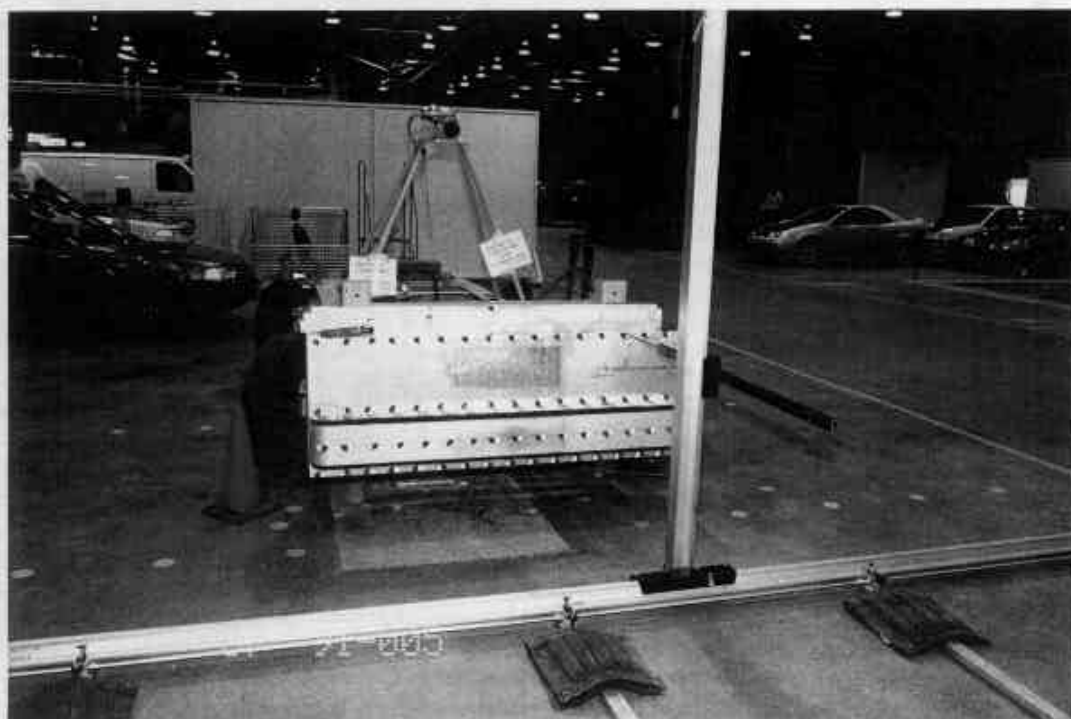
05. 3/4 AVANT DU VÉHICULE CIBLE
3/4 FRONT VIEW OF TARGET VEHICLE



06. 3/4 ARRIÈRE DU VÉHICULE CIBLE
3/4 REAR VIEW OF TARGET VEHICLE



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1992	T.C. N° T.C. No	91-005
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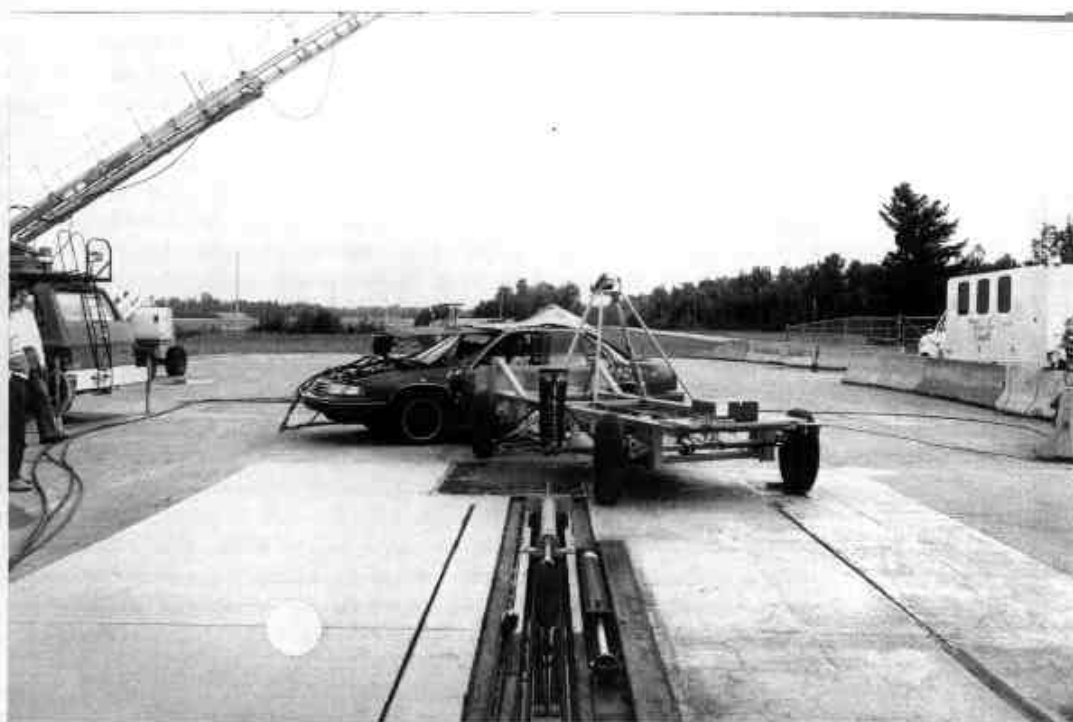
07. MESURE DES NIVEAUX FACE DÉFORMABLE DE LA BARRIÈRE
BARRIER DEFORMABLE FACE LEVEL MEASUREMENTS



08. MESURE DES NIVEAUX DU VÉHICULE CIBLE
TARGET VEHICLE'S LEVEL MEASUREMENTS



Date de collision Date Impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1992	T.C. N° T.C. No	91-005
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09. VUE GÉNÉRALE VERS L'AVANT DES VÉHICULES EN CONTACT, PRÉ-TEST
GENERAL FRONT VIEW OF VEHICLES IN CONTACT, PRE-TEST



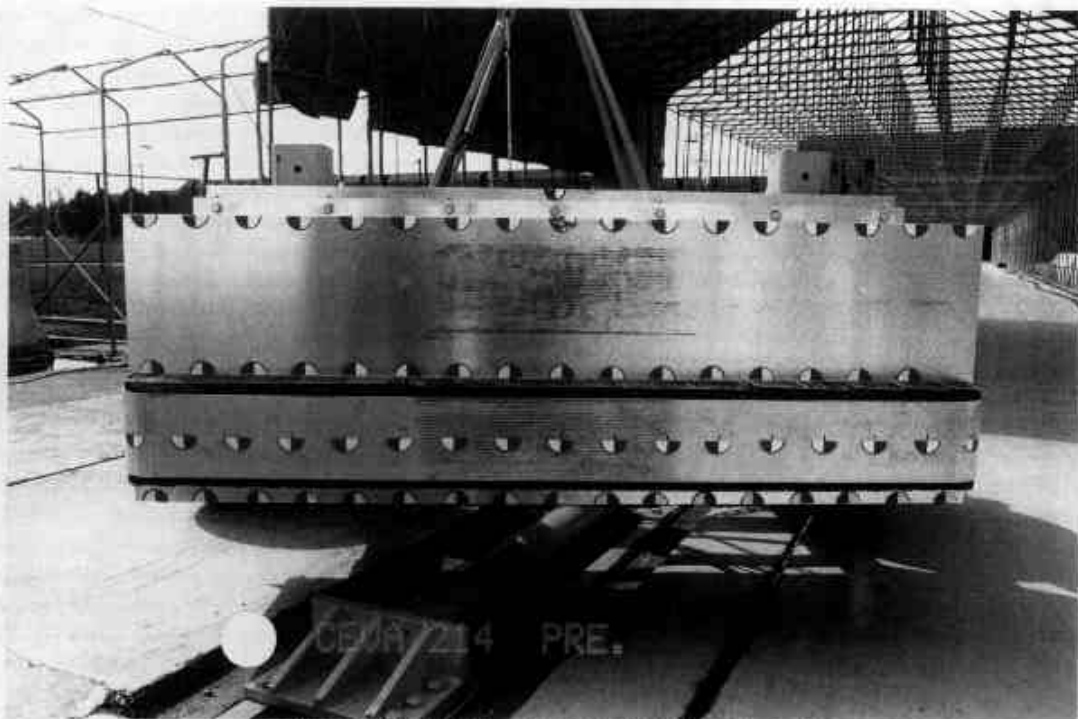
10. VUE GÉNÉRALE LATÉRALE GAUCHE DES VÉHICULES EN CONTACT, PRÉ-TEST
GENERAL LEFT SIDE VIEW OF VEHICLES IN CONTACT, PRE-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° I.C. No	91-005
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11. VUE CÔTÉ DROIT DE LA BARRIÈRE 214 CEVA, PRÉ-TEST
RIGHT VIEW OF THE MVTC 214 BARRIER, PRE-TEST



12. VUE AVANT DE LA BARRIÈRE 214 CEVA, PRÉ-TEST
FRONT VIEW THE MVTC 214 BARRIER, PRE-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1992	T.C. N° T.C. No	91-005
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13. CÔTÉ GAUCHE DU VÉHICULE CIBLE, PRÉ-TEST
LEFT SIDE OF TARGET VEHICLE, PRE-TEST



14. SURFACE CIBLÉE CÔTÉ GAUCHE DU VÉHICULE, PRÉ-TEST
TARGETS ON LEFT SIDE OF THE VEHICLE, PRE-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1992	T.C. N° T.C. No	91-005
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15. POINT D'IMPACT DU VÉHICULE CIBLE, PRÉ-TEST
IMPACT POINT OF TARGET VEHICLE, PRE-TEST



16. POINT CONTACT DU VÉHICULE CIBLE, PRÉ-TEST
IMPACT PUNCH OF TARGET VEHICLE, PRE-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1992	T.C. N° T.C. No	91-005
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N/A

17. VUE CÔTÉ GAUCHE DU CONDUCTEUR, PRÉ-TEST
LEFT SIDE VIEW OF DRIVER, PRE-TEST

N/A

18. SIÈGE DU CONDUCTEUR, PRÉ-TEST
DRIVER SEAT, PRE-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1992	T.C. N° T.C. No	91-005
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19. CÔTÉ GAUCHE DU PASSAGER ARRIÈRE GAUCHE, PRÉ-TEST
LEFT SIDE OF LEFT REAR PASSENGER, PRE-TEST

N/A

20. SIÈGE DU PASSAGER ARRIÈRE GAUCHE, PRÉ-TEST
LEFT REAR PASSENGER SEAT, PRE-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No	91-005
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21. VUE AVANT DU VÉHICULE CIBLE, PRÉ-TEST
FRONT VIEW OF TARGET VEHICLE, PRE-TEST



22. CÔTÉ DROIT DU VÉHICULE CIBLE, PRÉ-TEST
RIGHT SIDE OF TARGET VEHICLE, PRE-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No	91-005
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23. CÔTÉ DROIT DU CONDUCTEUR, PRÉ-TEST
DRIVER'S RIGHT SIDE, PRE-TEST



24. TABLEAU DE BORD ET LE VOLANT, PRÉ-TEST
DASH BORD AND STEERING WHEEL, PRE-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1992	T.C. N° T.C. No	91-005
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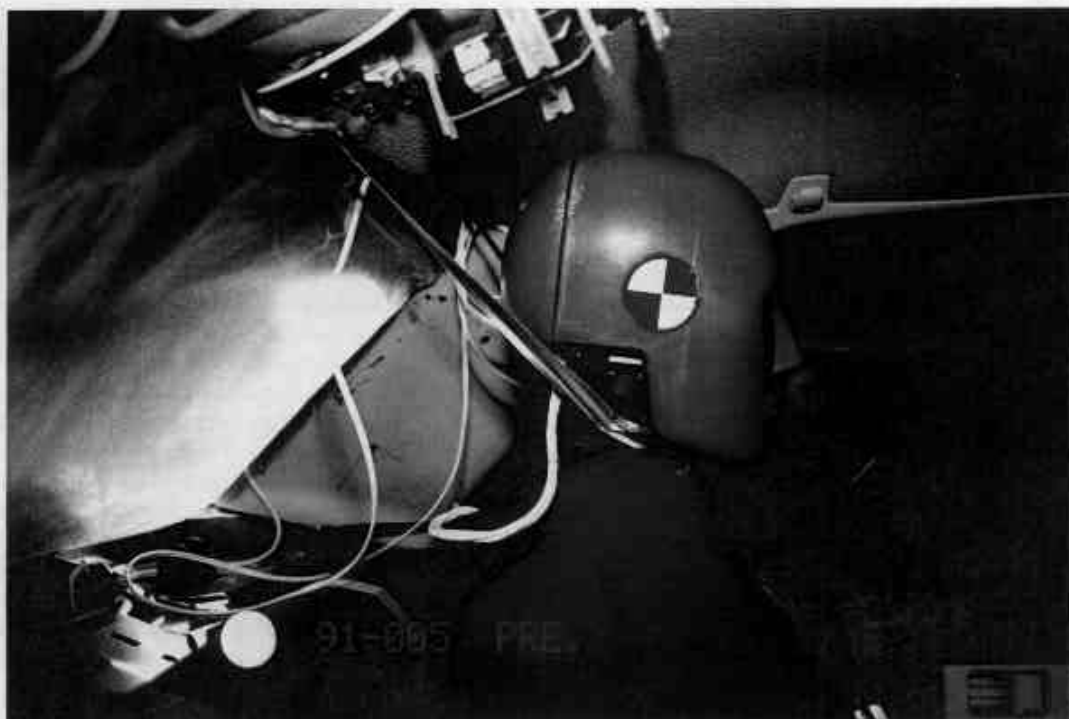
25. CADRE DE FENÊTRE INTÉRIEUR ET PILIER B PORTE AVANT GAUCHE, PRÉ-TEST
LEFT FRONT WINDOW EDGE AND B PILLAR, PRE-TEST



26. CÔTÉ DROIT DU PASSAGER ARRIÈRE GAUCHE, PRÉ-TEST
RIGHT SIDE OF LEFT REAR PASSENGER, PRE-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° I.C. No	91-005
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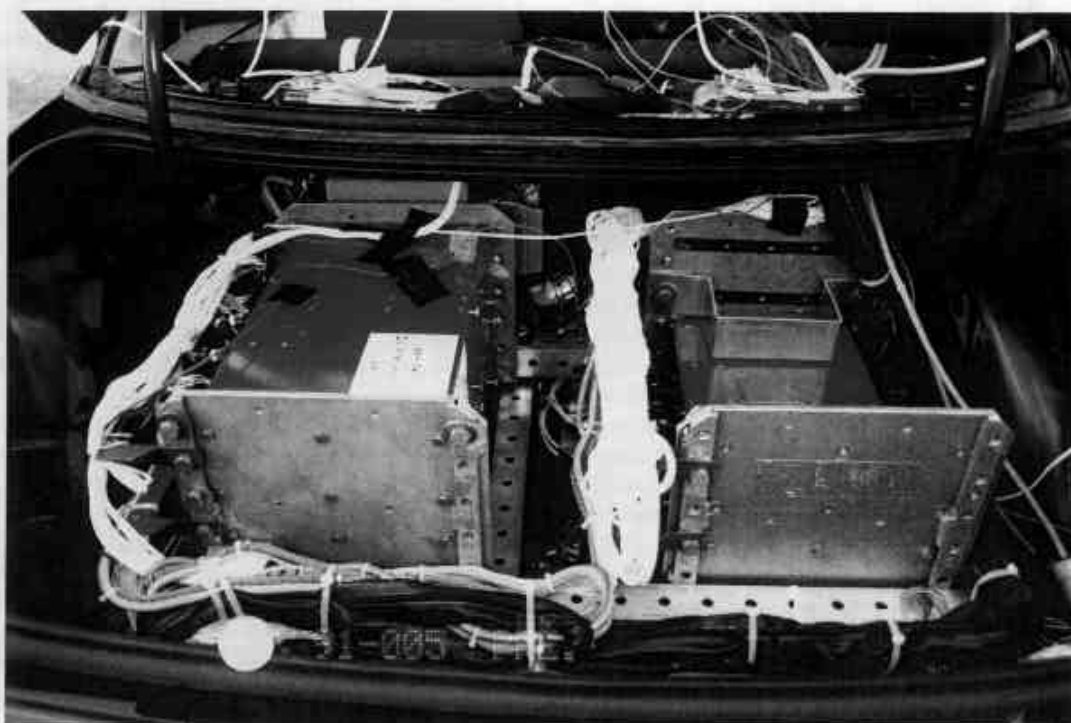
27. CADRE DE FENÊTRE INTÉRIEUR PORTE ARRIÈRE GAUCHE ET PILIER C, PRÉ-TEST
LEFT REAR WINDOW EDGE AND C PILLAR, PRE-TEST



28. VUE ARRIÈRE DU VÉHICULE CIBLE, PRÉ-TEST
REAR VIEW OF TARGET VEHICLE, PRE-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1992	T.C. N° T.C. No	91-005
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29. BOÎTES ORANGE ET INSTRUMENTATION, PRÉ-TEST
ORANGE BOXES AND INSTRUMENTATION, PRE-TEST



30. VITESSE EN P.I/S SUR LE LECTEUR, POST-TEST
SPEED IN F.P.S. ON SPEED TRAP, POST-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No	91-005
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31. VUE GÉNÉRALE VERS L'AVANT DES VÉHICULES EN CONTACT, POST-TEST
GENERAL FRONT VIEW OF VEHICLES IN CONTACT, POST-TEST



32. VUE GÉNÉRALE LATÉRALE DROITE DES VÉHICULES EN CONTACT, POST-TEST
GENERAL RIGHT SIDE VIEW OF VEHICLES IN CONTACT, POST-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1992	T.C. N° T.C. No	91-005
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33. VUE GÉNÉRALE VERS L'ARRIÈRE DES VÉHICULES EN CONTACT, POST-TEST
GENERAL REAR VIEW OF VEHICLES IN CONTACT, POST-TEST



34. VUE GÉNÉRALE LATÉRALE GAUCHE DES VÉHICULES EN CONTACT, POST-TEST
GENERAL LEFT SIDE VIEW OF VEHICLES IN CONTACT, POST-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° I.C. No	91-005
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35. VUE DE LA FACE DÉFORMABLE DE LA BARRIÈRE 214 C.E.V.A., POST-TEST
VIEW OF THE M.V.T.C. 214 BARRIER DEFORMABLE FACE, POST-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No	91-005
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36. CÔTÉ GAUCHE DU VEHICULE CIBLE, POST-TEST
LEFT SIDE OF TARGET VEHICLE, POST-TEST



37. SURFACE CIBLÉE CÔTÉ GAUCHE DU VEHICULE , POST-TEST
TARGETS ON LEFT SIDE OF THE VEHICLE, POST-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No	91-005
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38. POINT D'IMPACT DU VÉHICULE CIBLE, POST-TEST
IMPACT POINT OF TARGET VEHICLE, POST-TEST



39. POINT CONTACT DU VÉHICULE CIBLE, POST-TEST
IMPACT PUNCH OF TARGET VEHICLE, POST-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1992	T.C. N° T.C. No	91-005
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40. VUE CÔTÉ GAUCHE DU CONDUCTEUR, POST-TEST
LEFT SIDE VIEW OF DRIVER, POST-TEST



41. CÔTÉ GAUCHE DU PASSAGER ARRIÈRE GAUCHE, POST-TEST
LEFT SIDE OF LEFT REAR PASSENGER, POST-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No	91-005
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42. VUE AVANT DU VÉHICULE CIBLE, POST-TEST
FRONT VIEW OF TARGET VEHICLE, POST-TEST



43. CÔTÉ DROIT DU VÉHICULE CIBLE, POST-TEST
RIGHT SIDE OF TARGET VEHICLE, POST-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1992	T.C. N° T.C. No	91-005
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44. CÔTÉ DROIT DU CONDUCTEUR, POST-TEST
DRIVER'S RIGHT SIDE, POST-TEST



45. TABLEAU DE BORD ET LE VOLANT, POST-TEST
DASH BORD AND STEERING WHEEL, POST-TEST



Date de collision Date impactant	92/09/04	Véhicule Vehiclé	CHEVROLET LUMINA 1991	T.C. N° T.C. No	91-005
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46. CADRE DE FENÊTRE INTÉRIEUR ET PILIER B PORTE AVANT GAUCHE , POST-TEST
LEFT FRONT WINDOW EDGE AND B PILLAR, POST-TEST



47. CÔTÉ DROIT DU PASSAGER ARRIÈRE GAUCHE, POST-TEST
RIGHT SIDE OF LEFT REAR PASSENGER, POST-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1992	T.C. N° T.C. No	91-005
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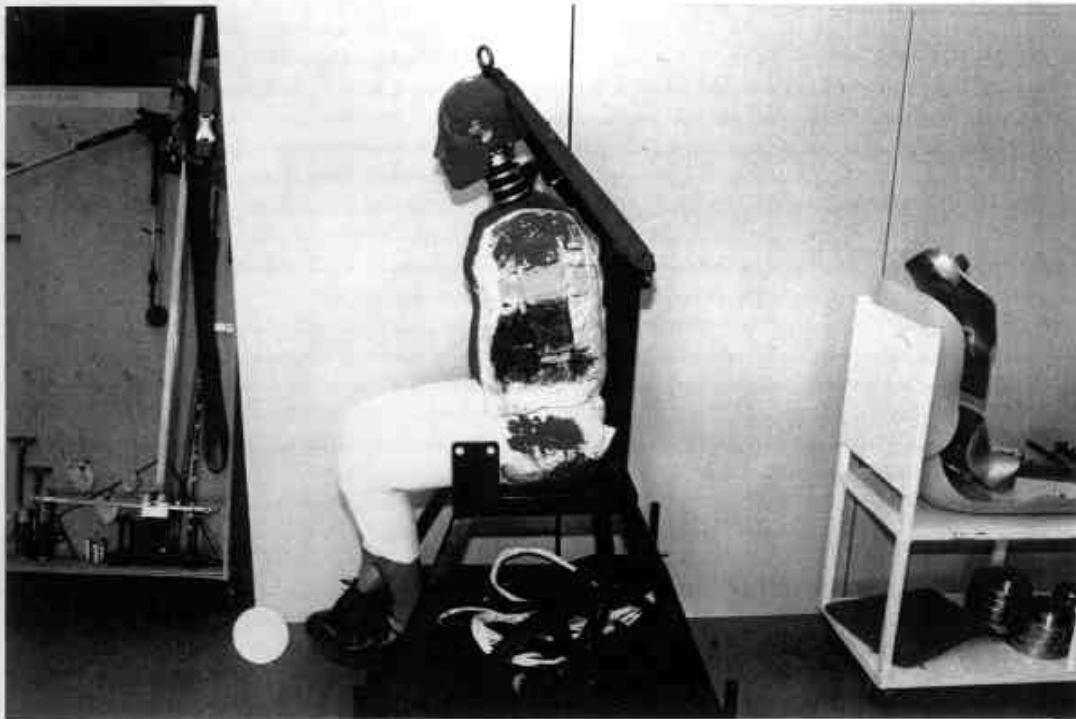
48. CADRE DE FENÊTRE INTÉRIEUR PORTE ARRIÈRE GAUCHE ET PILIER C, POST-TEST
LEFT REAR WINDOW EDGE AND C PILLAR, POST-TEST



49. VUE ARRIÈRE DU VÉHICULE CIBLE, POST-TEST
REAR VIEW OF TARGET VEHICLE, POST-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No	91-005
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50. VUE DU MANNEQUIN BIOSID, POST-TEST
VIEW OF THE DUMMY BIOSID, POST-TEST



51. INTÉRIEUR DE LA PORTIÈRE DU CONDUCTEUR (BIOSID), POST-TEST
DRIVER (BIOSID) DOOR TRIM, POST-TEST



Date de collision Date impacted	92/09/04	Véhicule Vehicle	CHEVROLET LUMINA 1991	T.C. N° T.C. No	91-005
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52. VUE DU MANNEQUIN EUROSID 1, POST-TEST
VIEW OF THE DUMMY EUROSID 1, POST-TEST



53. INTÉRIEUR DE LA PORTIÈRE DU PASSAGER ARRIÈRE GAUCHE (EUROSID 1), POST-TEST
LEFT REAR PASSENGER (EUROSID 1) DOOR TRIM, POST-TEST