

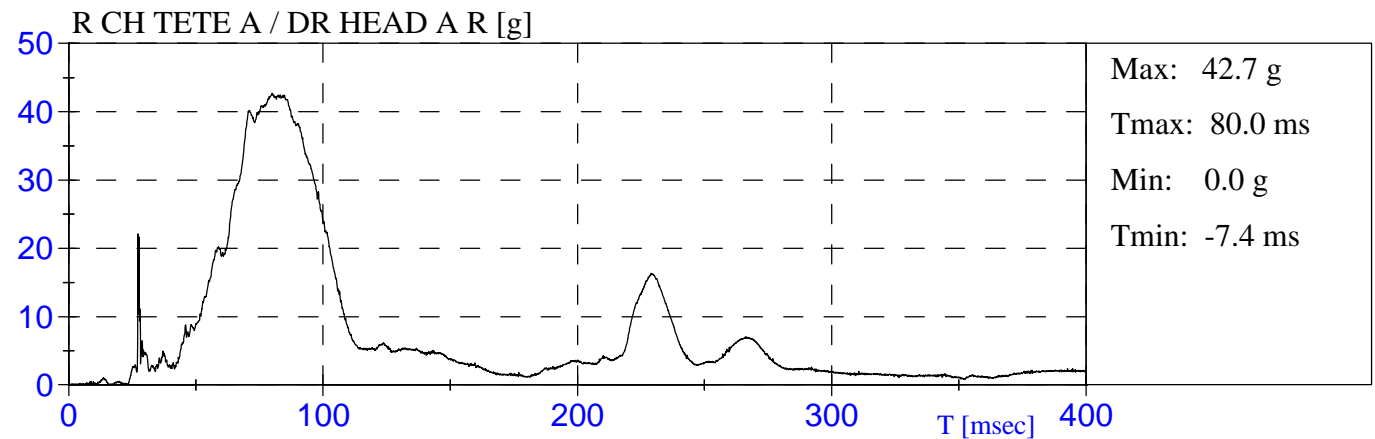
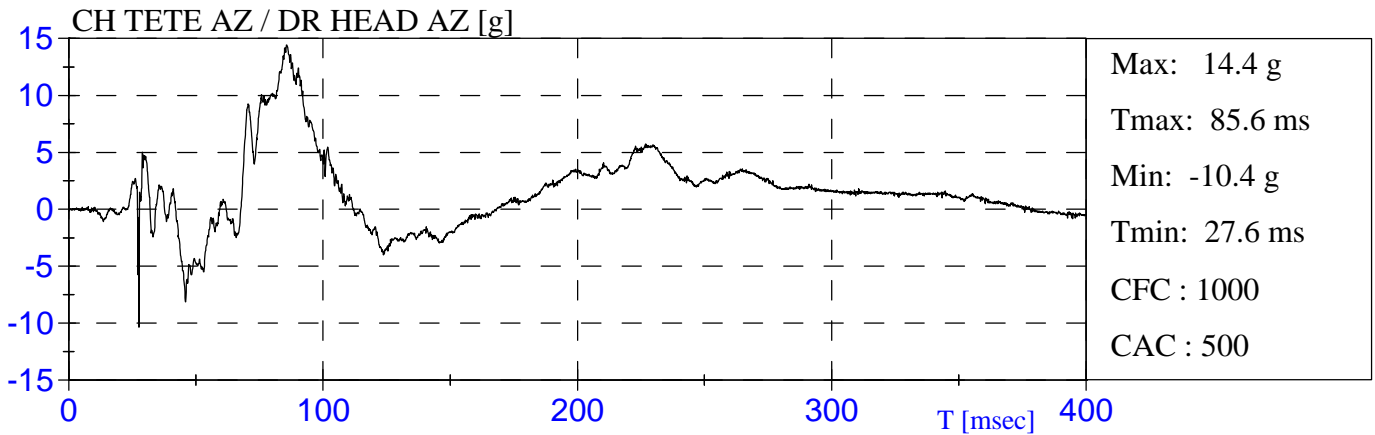
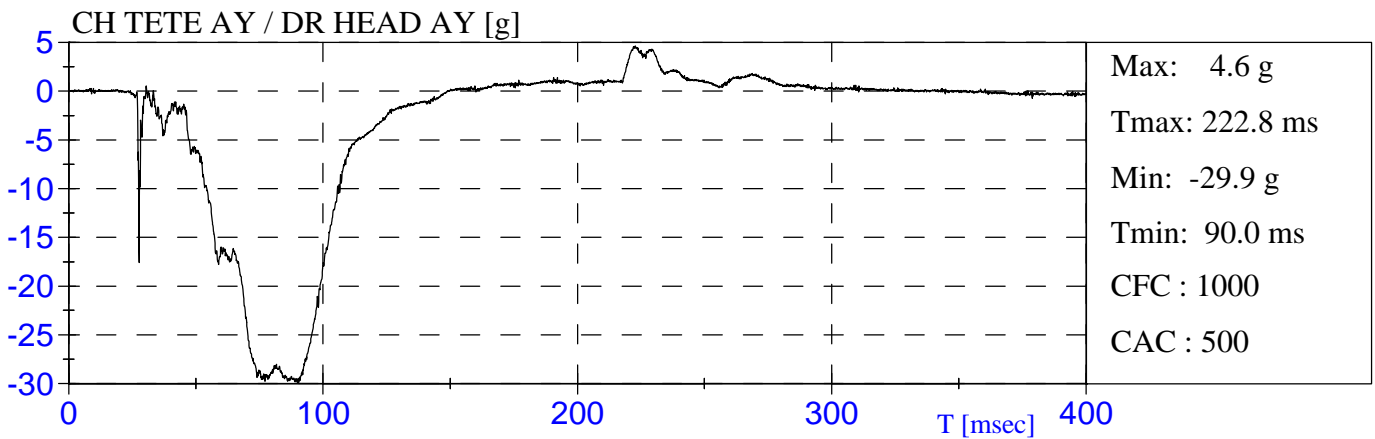
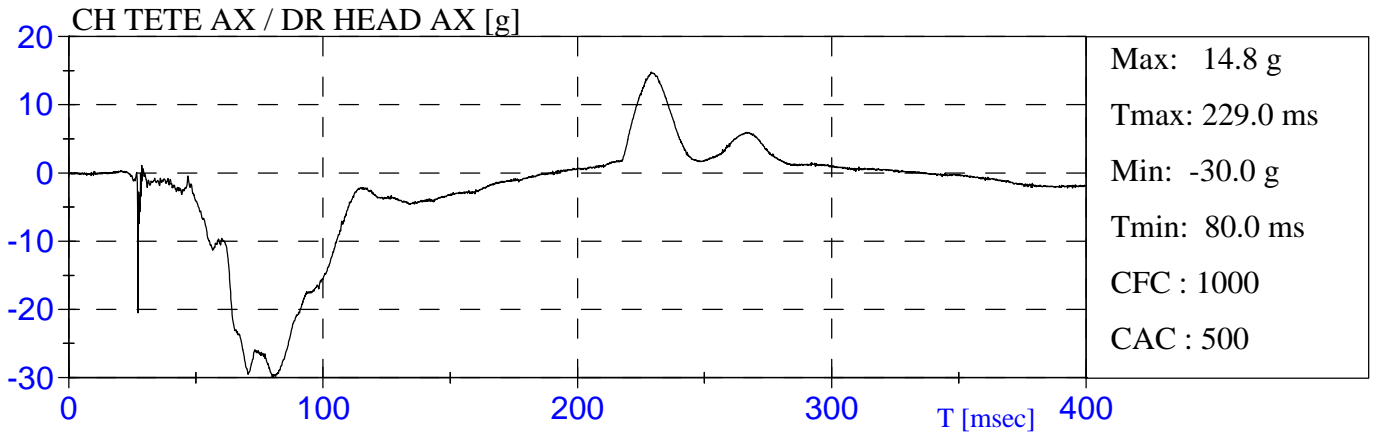


Nom du client Client Name	TRANSPORT CANADA
Type de véhicule Type of Vehicle	GRAND PRIX 2004
Numéro de TC Tc Number	TC04-119
Numéro de contrat Contract No	04-6008
Acquisition de données selon Data Acquisition according to	SAE J211/1 MAR 95
Date de l'essai Test date	2004-02-27
Titre du projet Project Title	COLLISION DE RECHERCHE COLLISION FRONTALE RESEARCH COLLISION TEST FRONTAL CRASH
MANNEQUIN / DUMMY	
Chauffeur Driver	HYBRID III 5% F IR
Passager Passenger	HYBRID III 5% F IR
Passager 1 (arrière gauche) Passenger 1 (rear left)	HYBRID III 6Y
Passager 2 (arrière droit) Passenger 2 (rear right)	HYBRID III 6Y



COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

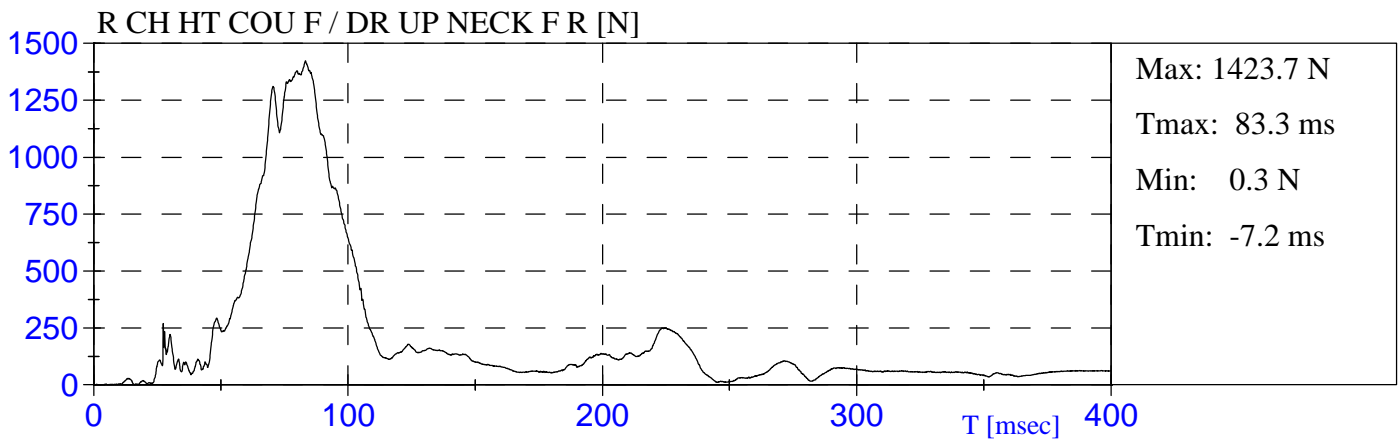
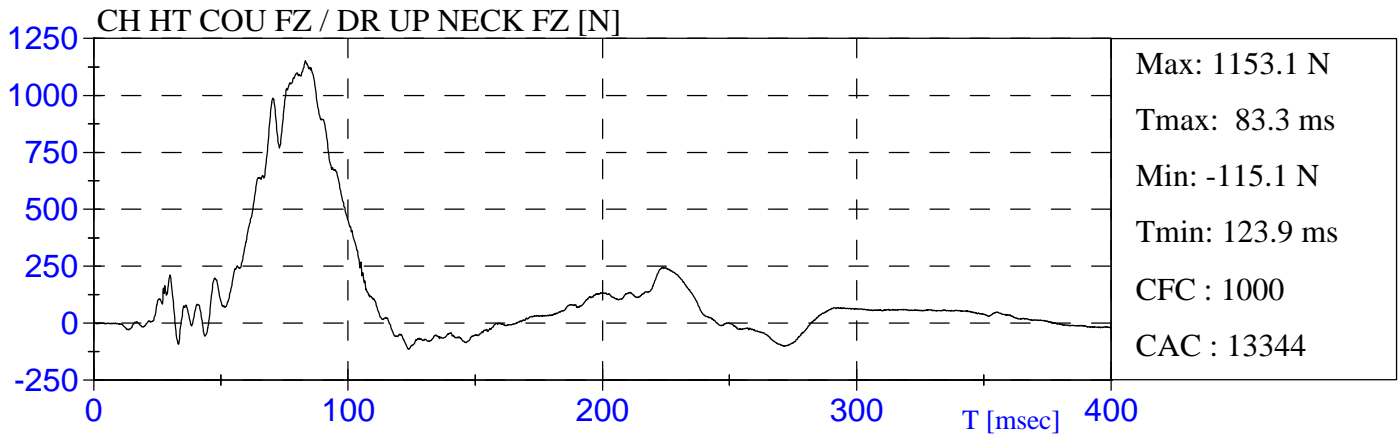
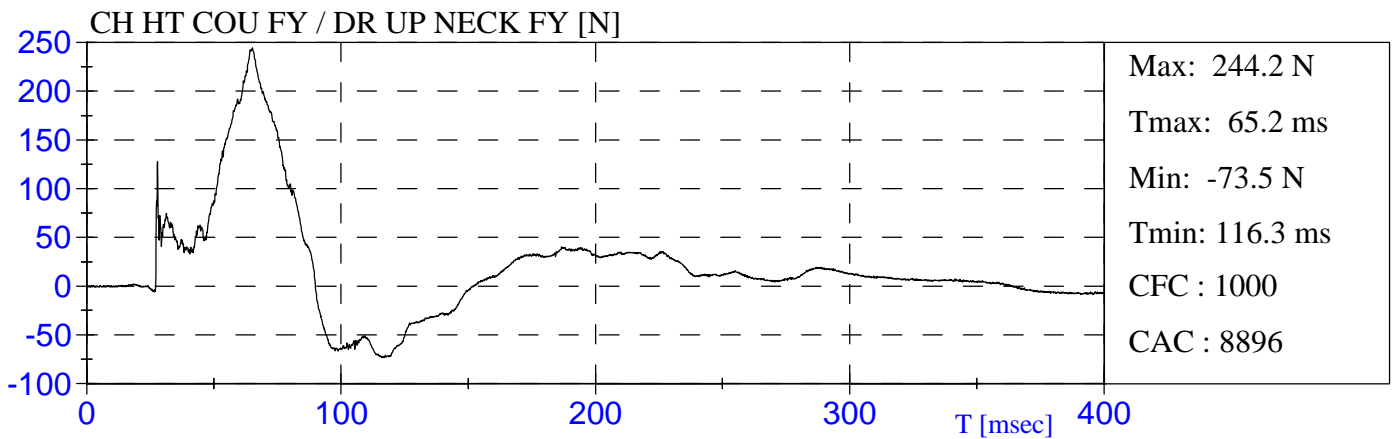
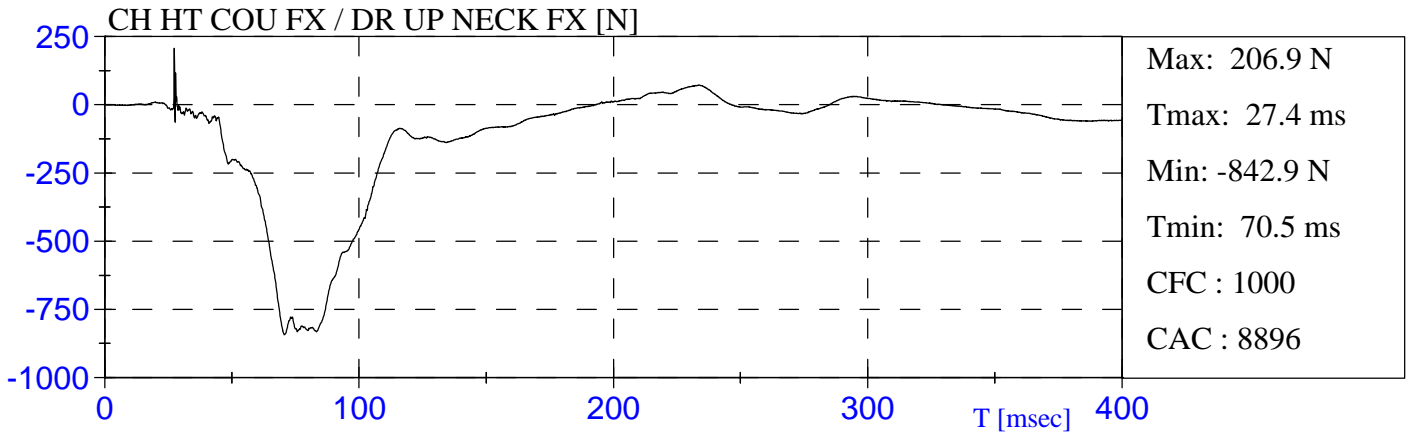
Date: 2004-02-27
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COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27
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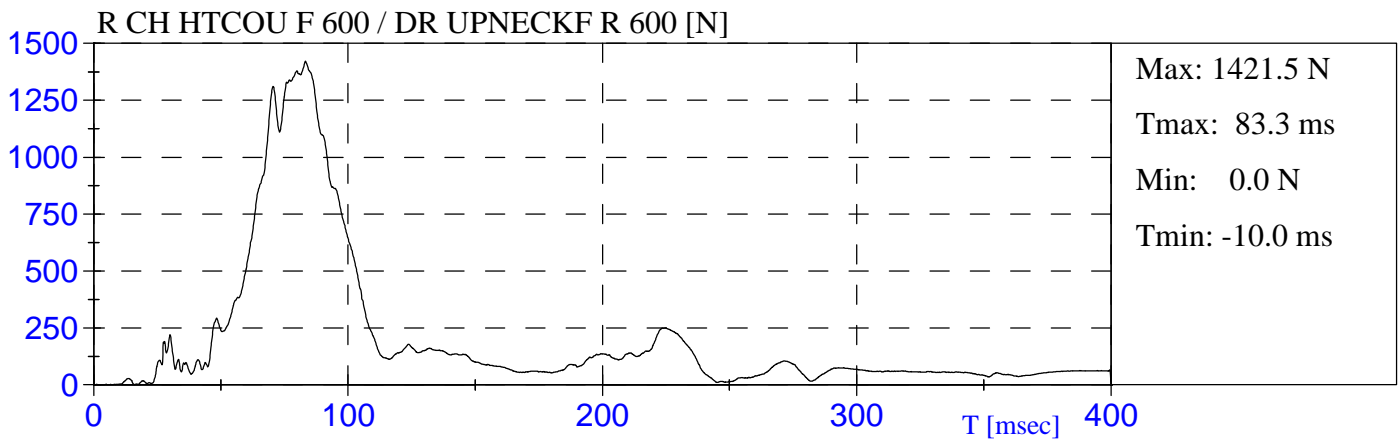
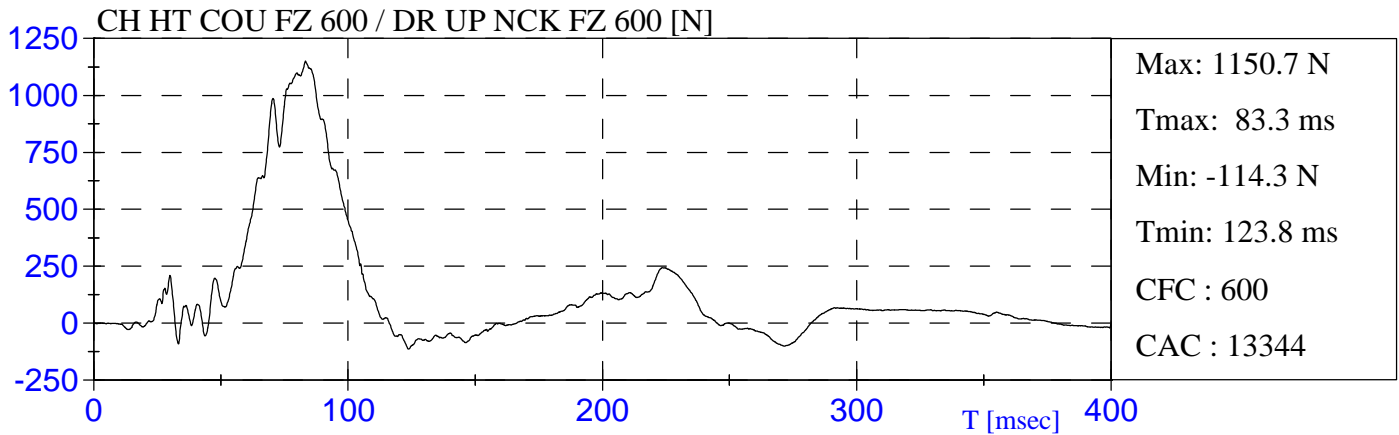
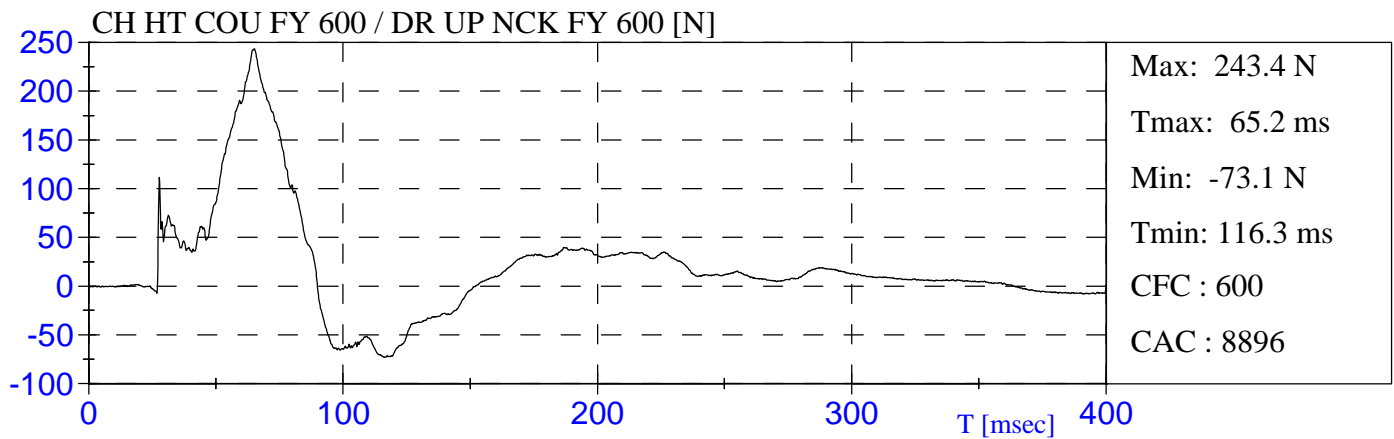
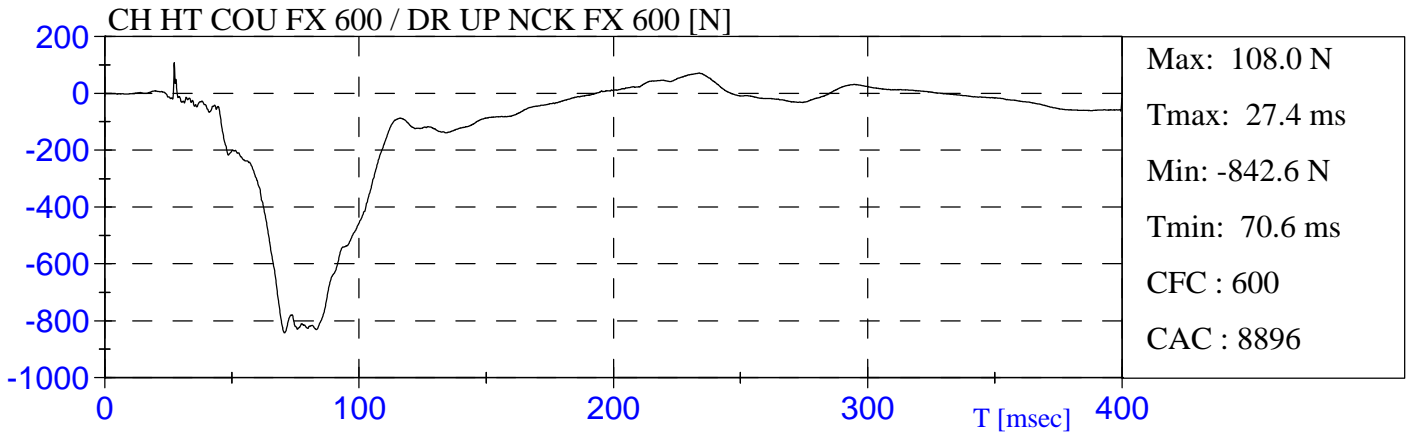




COLLISION FRONTALE
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GRAND PRIX 2004

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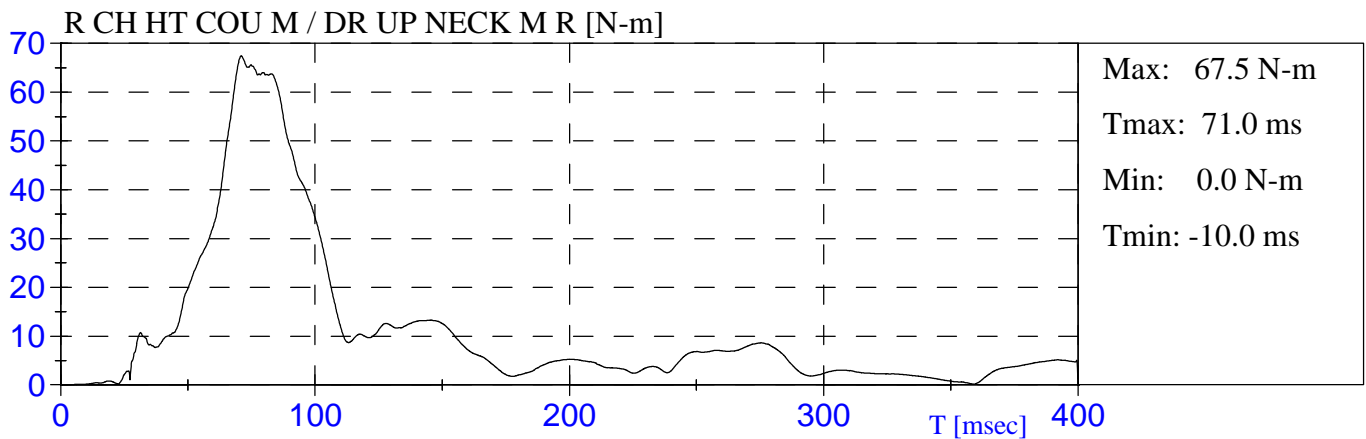
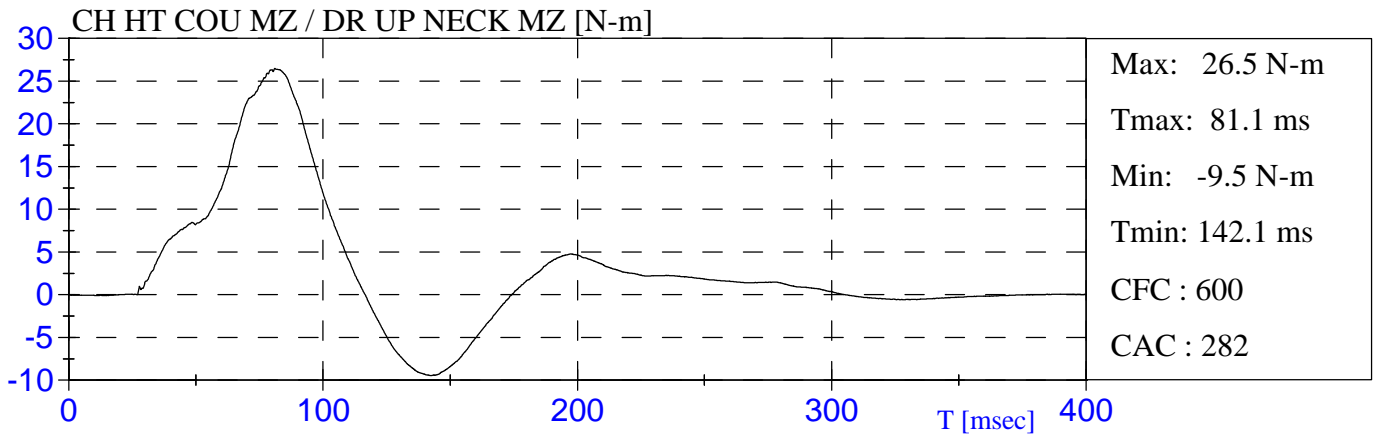
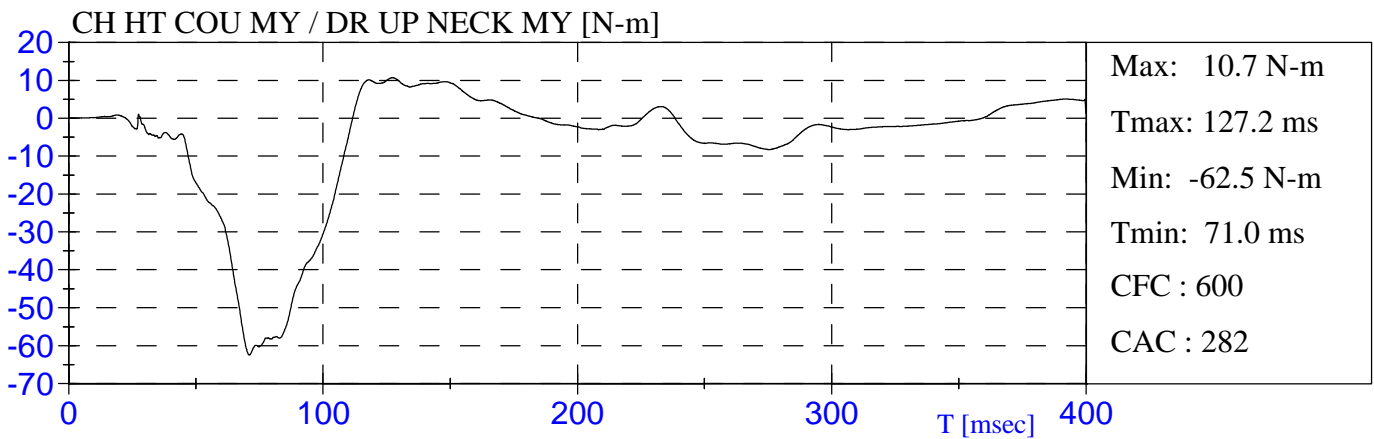
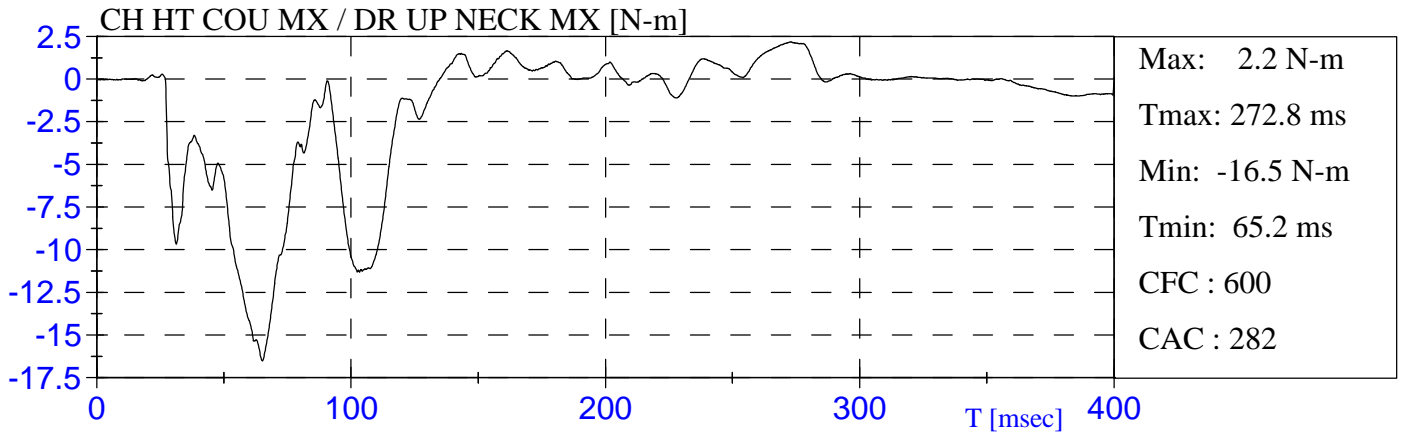




COLLISION FRONTALE
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GRAND PRIX 2004

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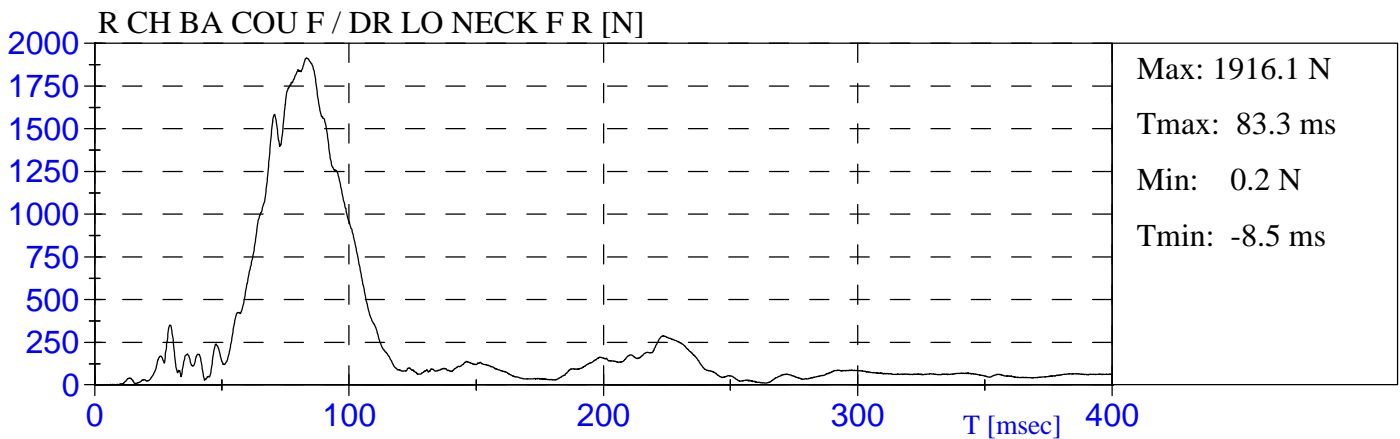
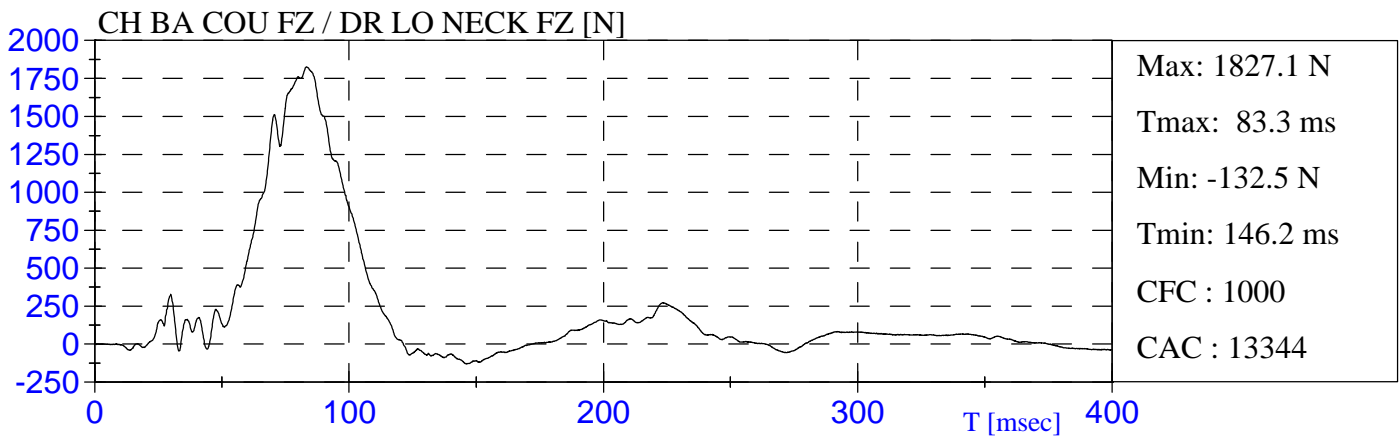
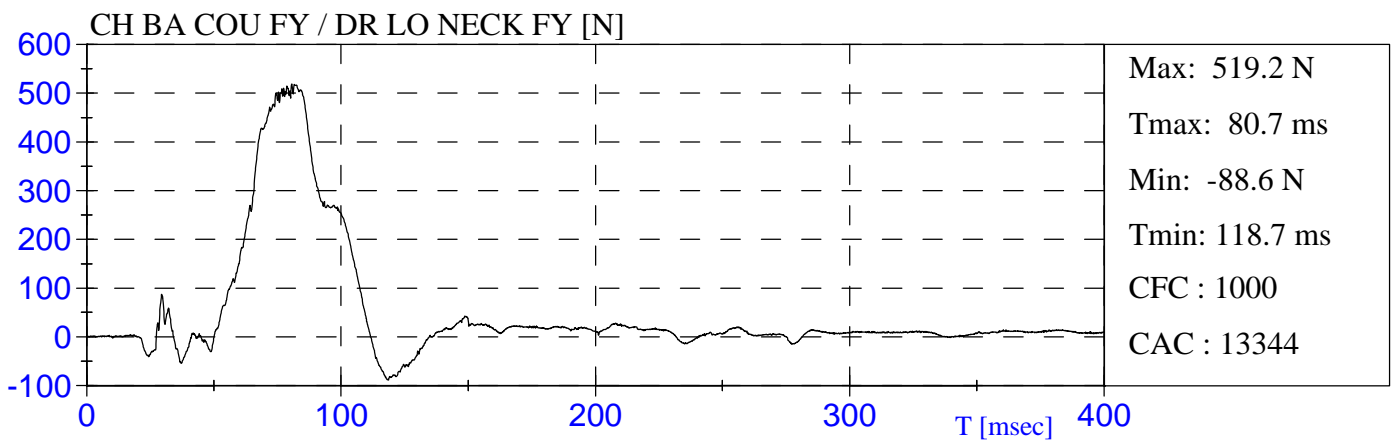
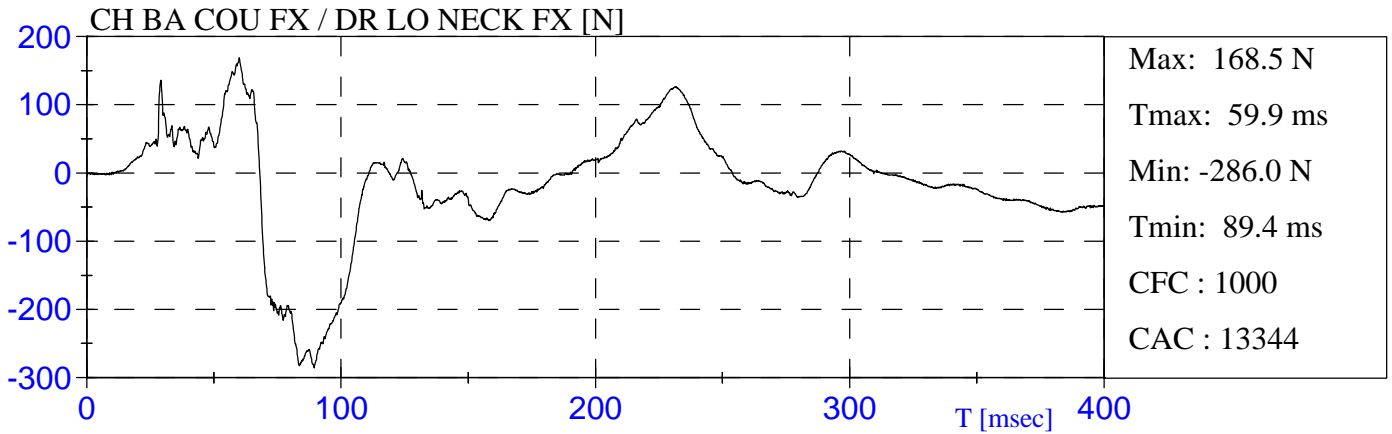




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GRAND PRIX 2004

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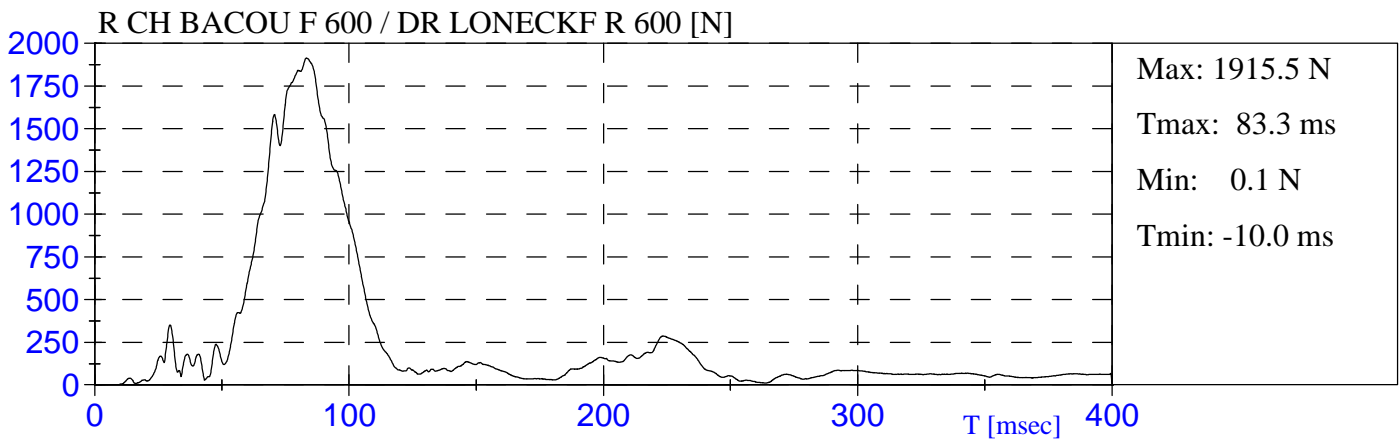
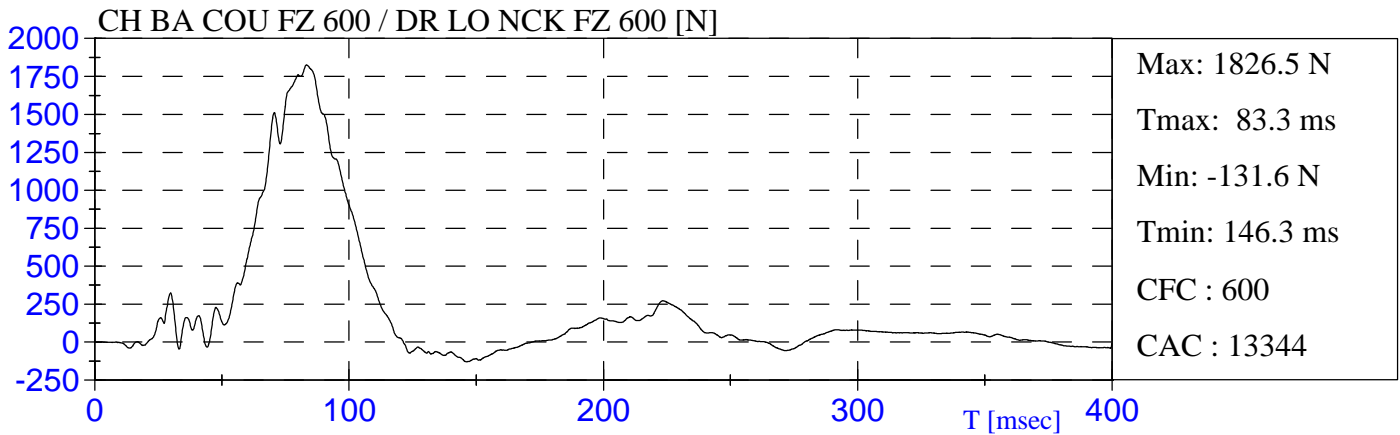
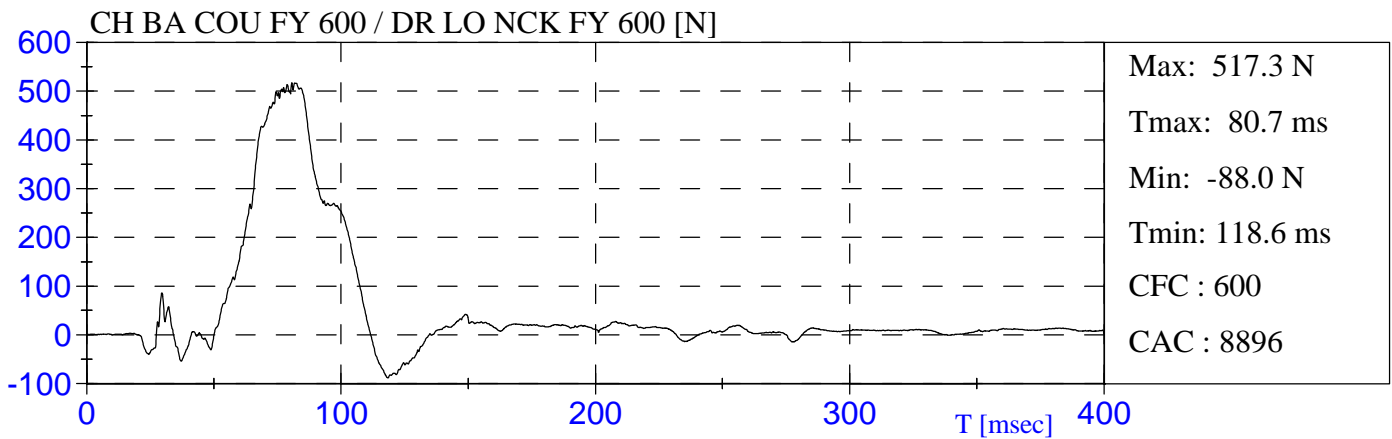
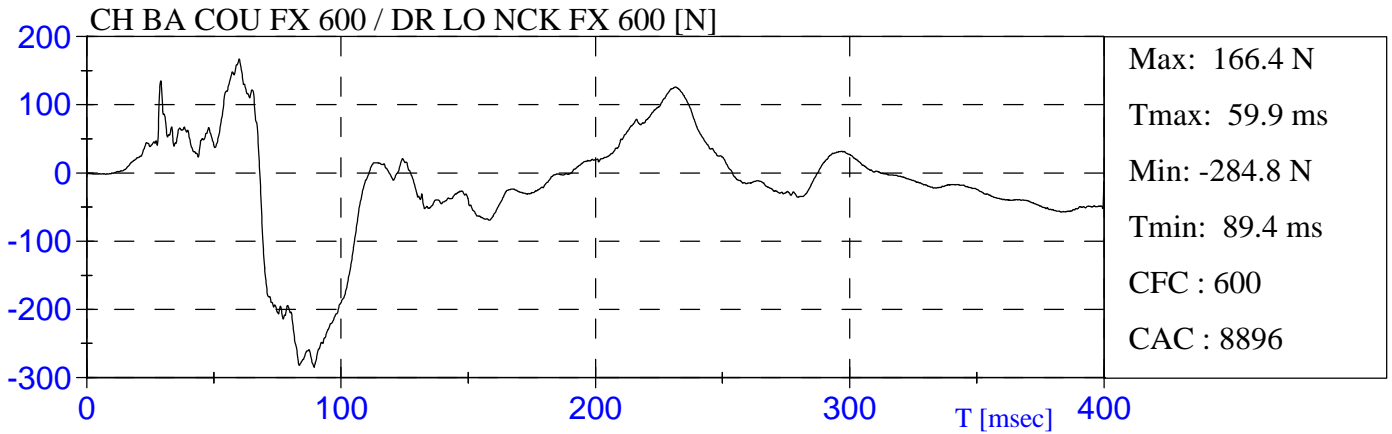




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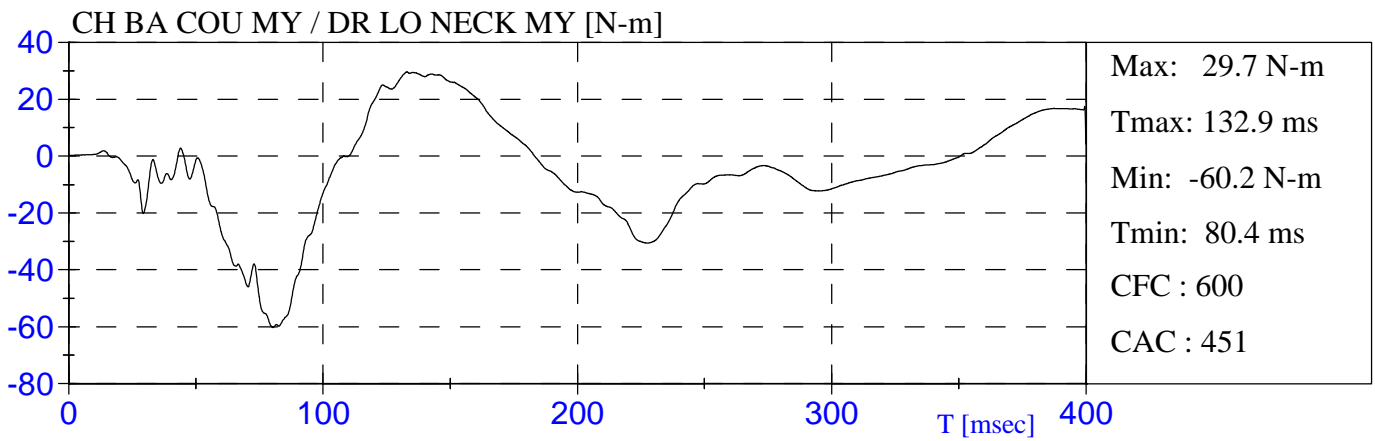
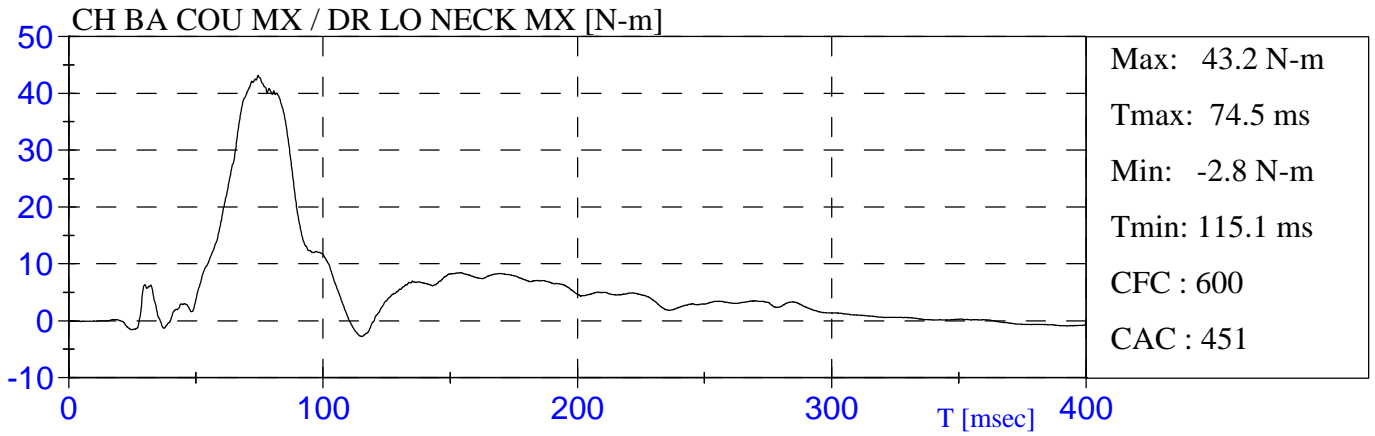




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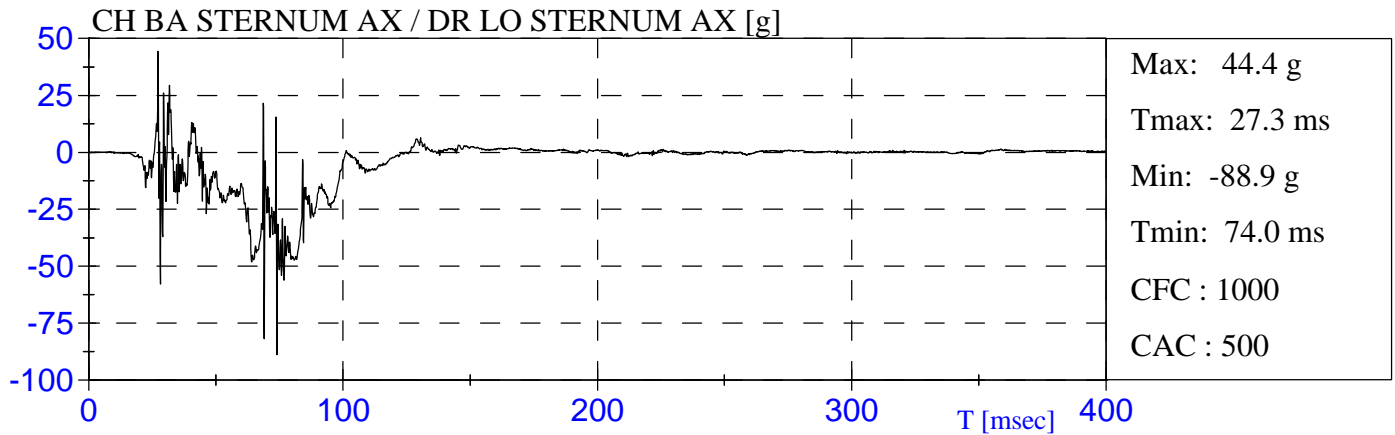
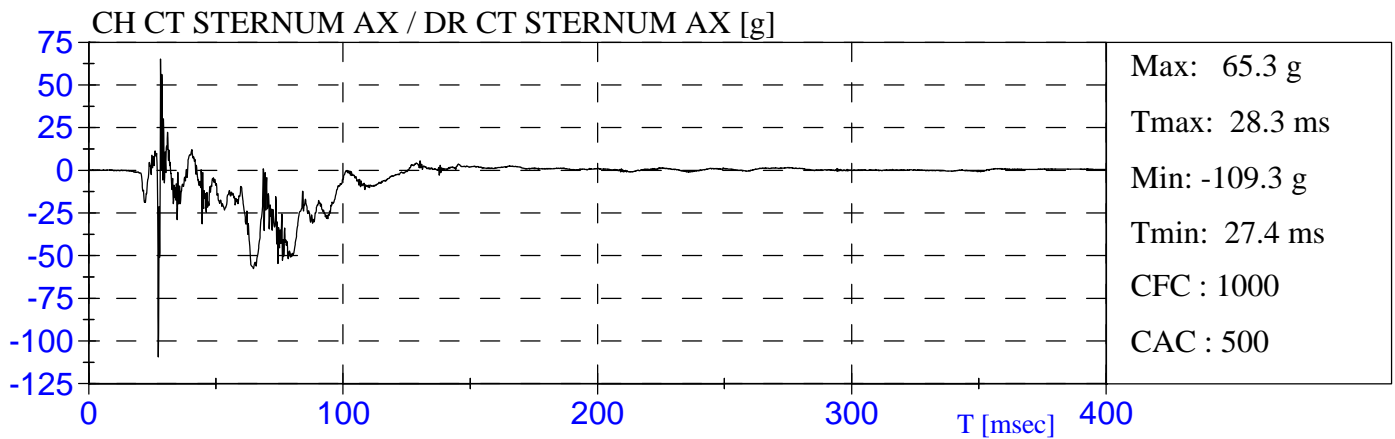
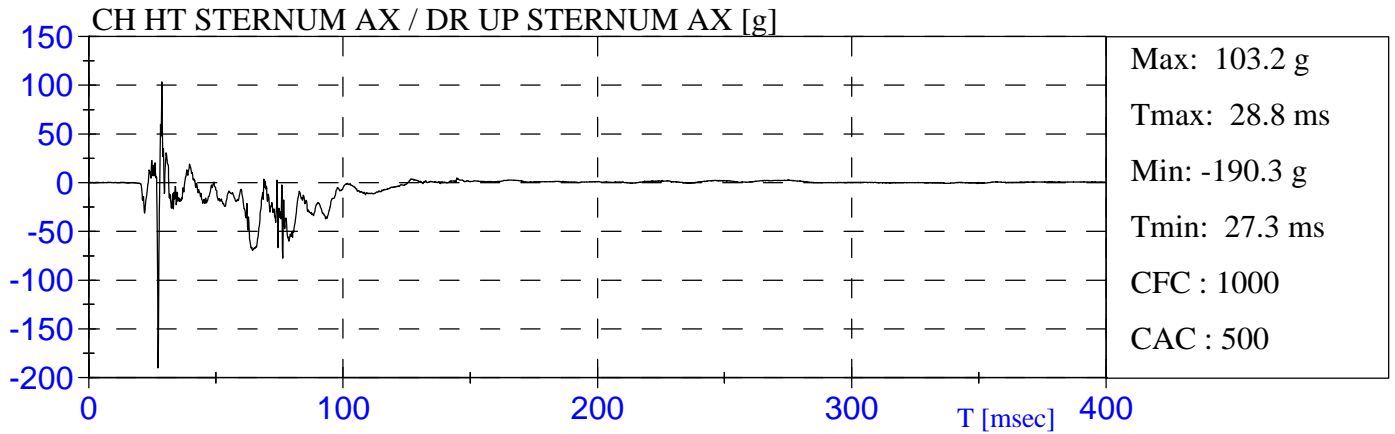
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COLLISION FRONTALE
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GRAND PRIX 2004

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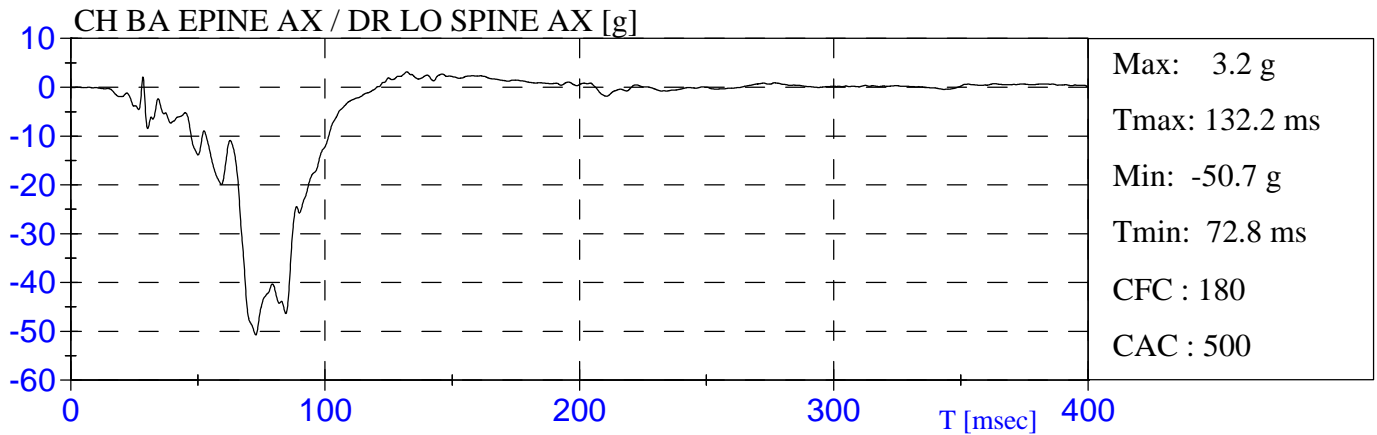
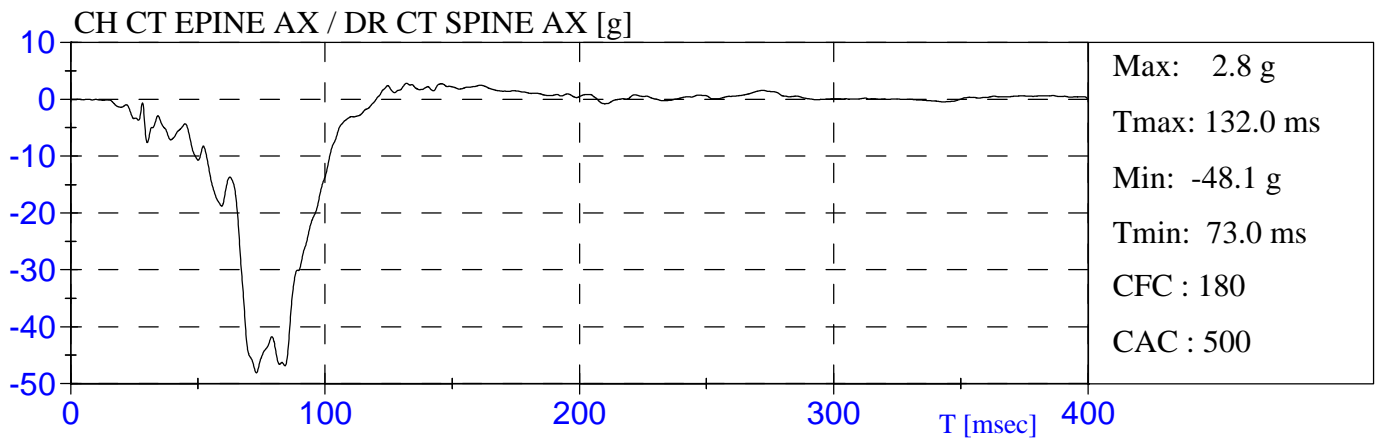
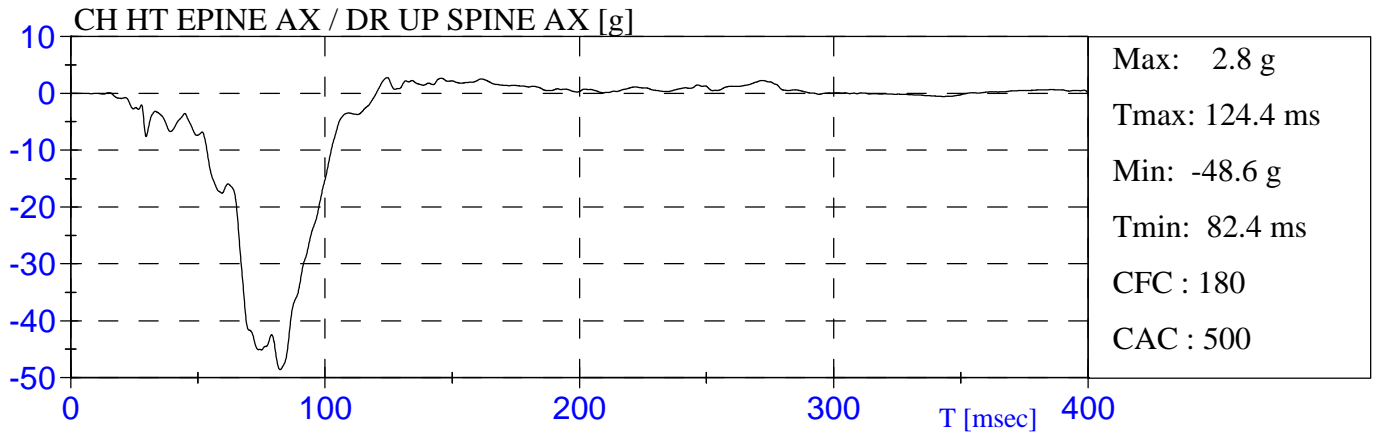




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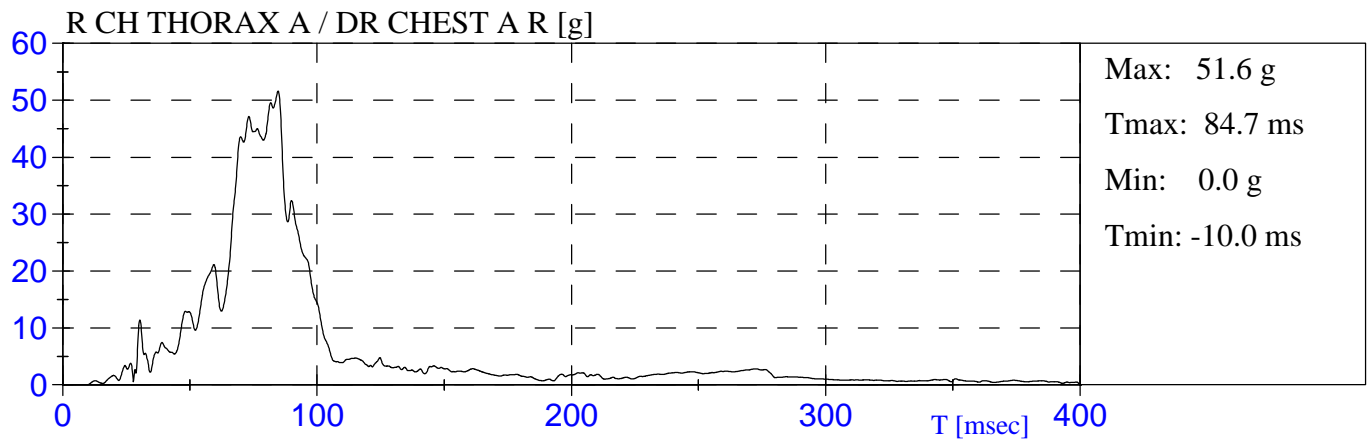
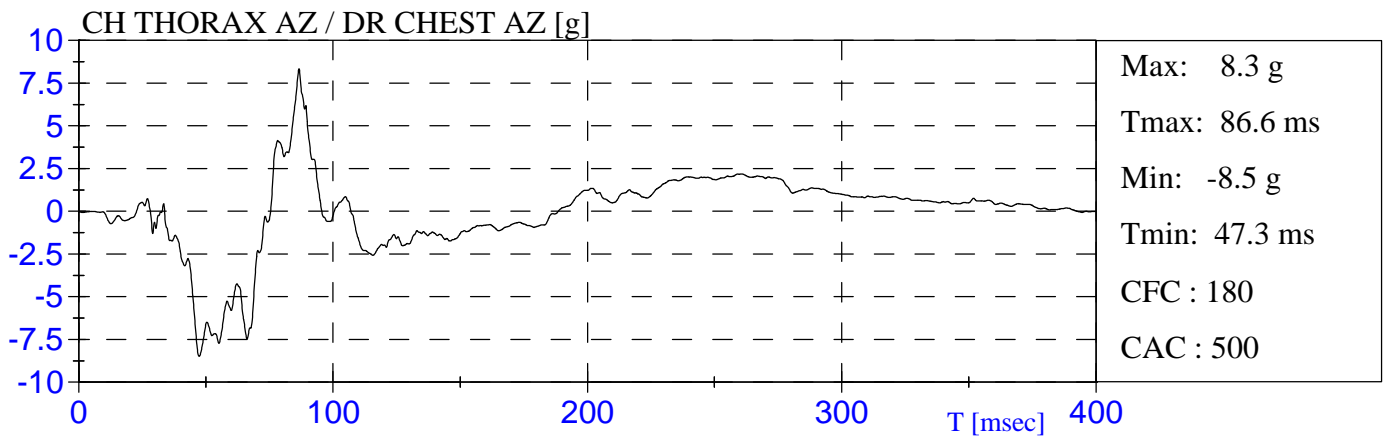
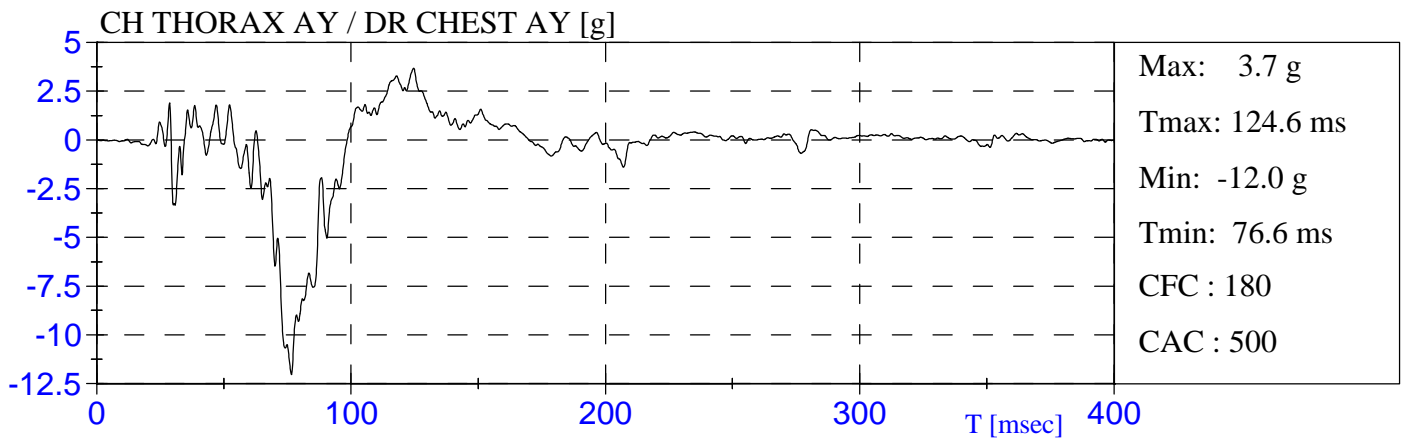
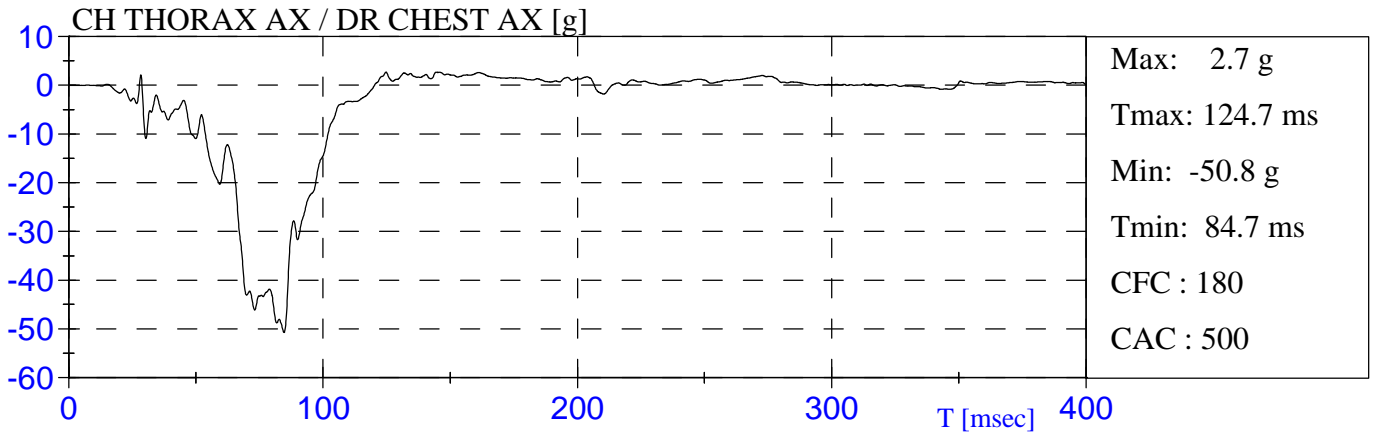




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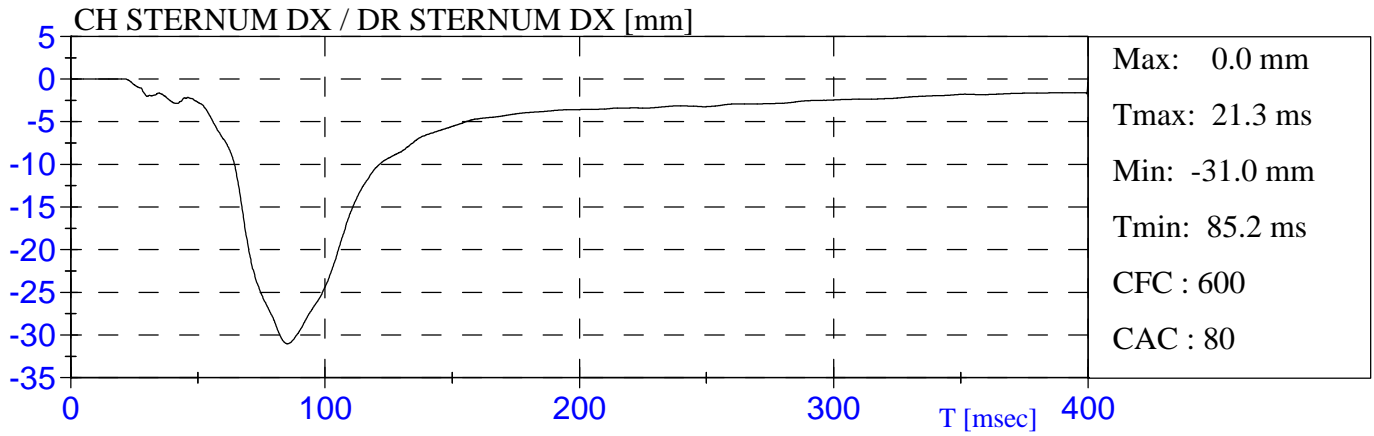




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GRAND PRIX 2004

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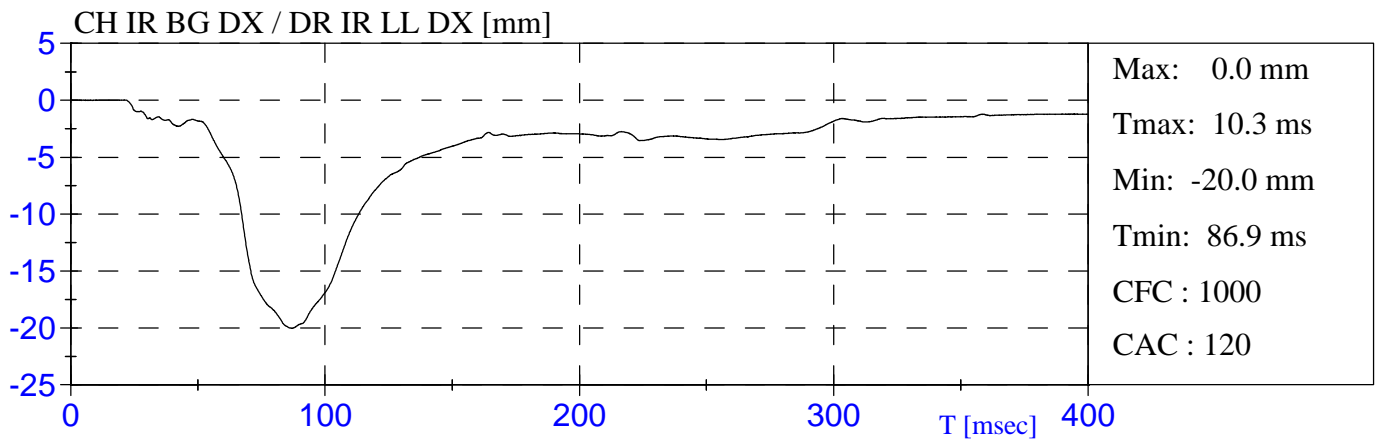
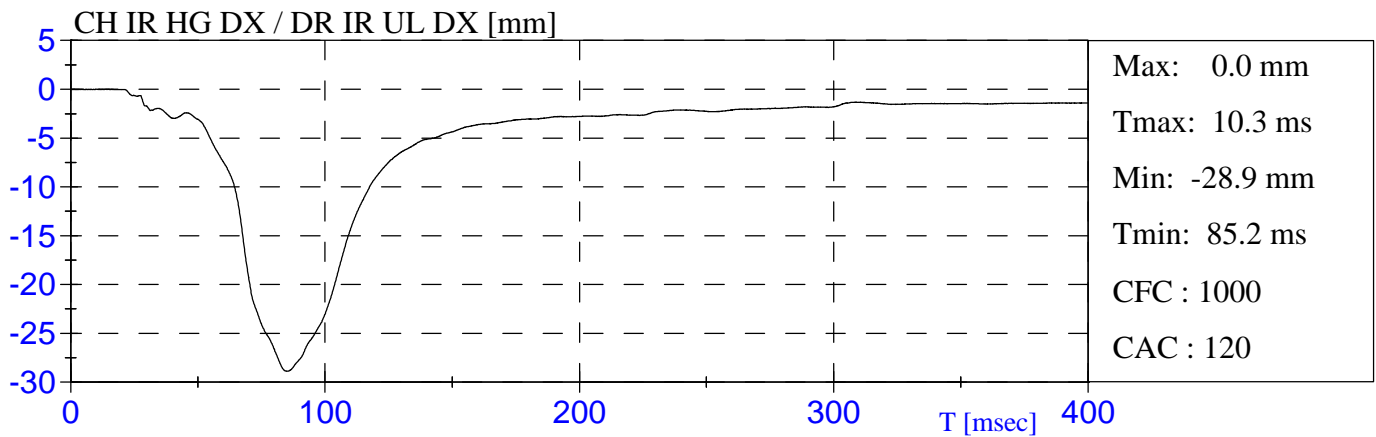
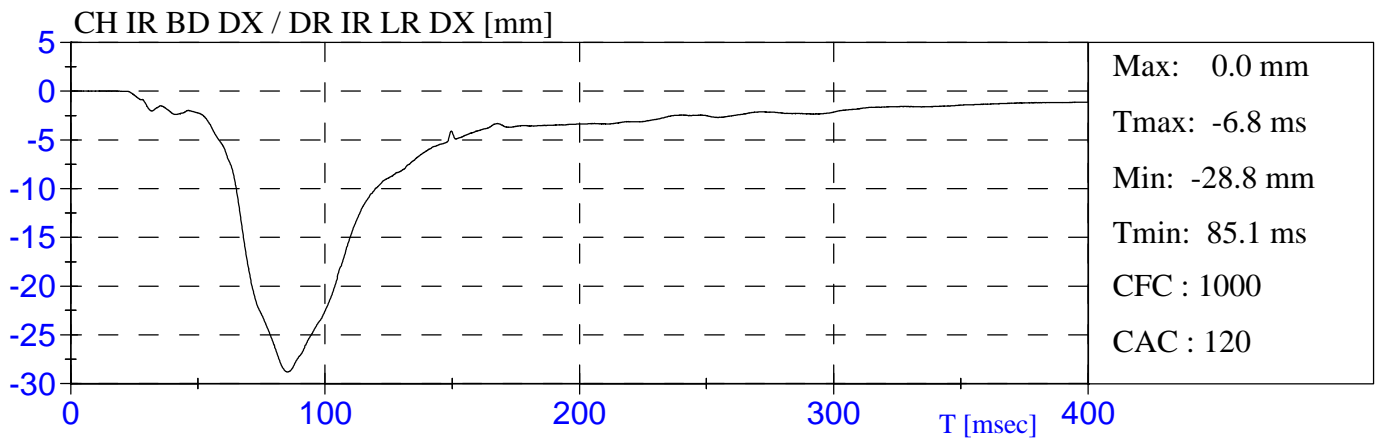
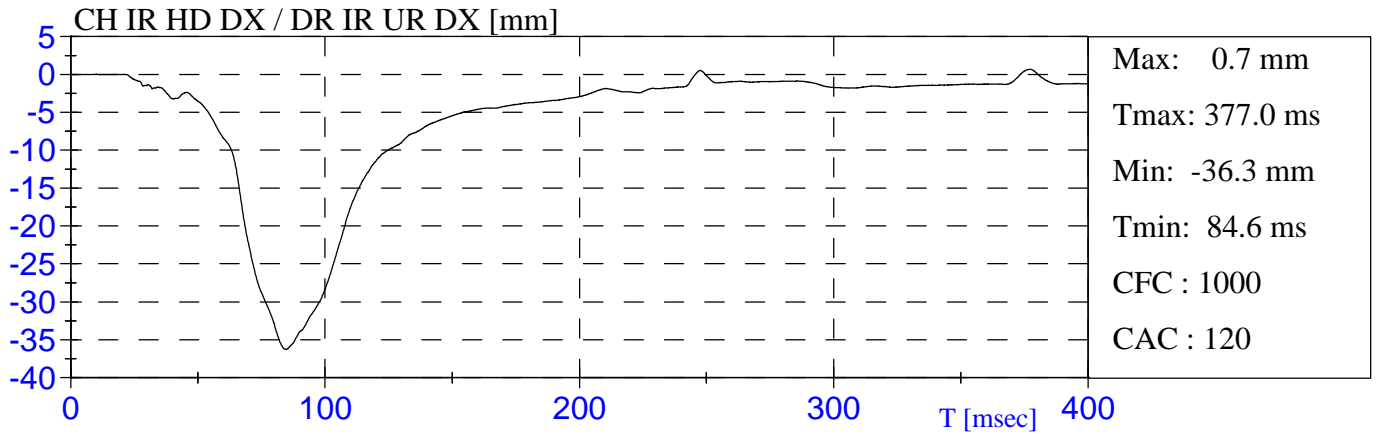




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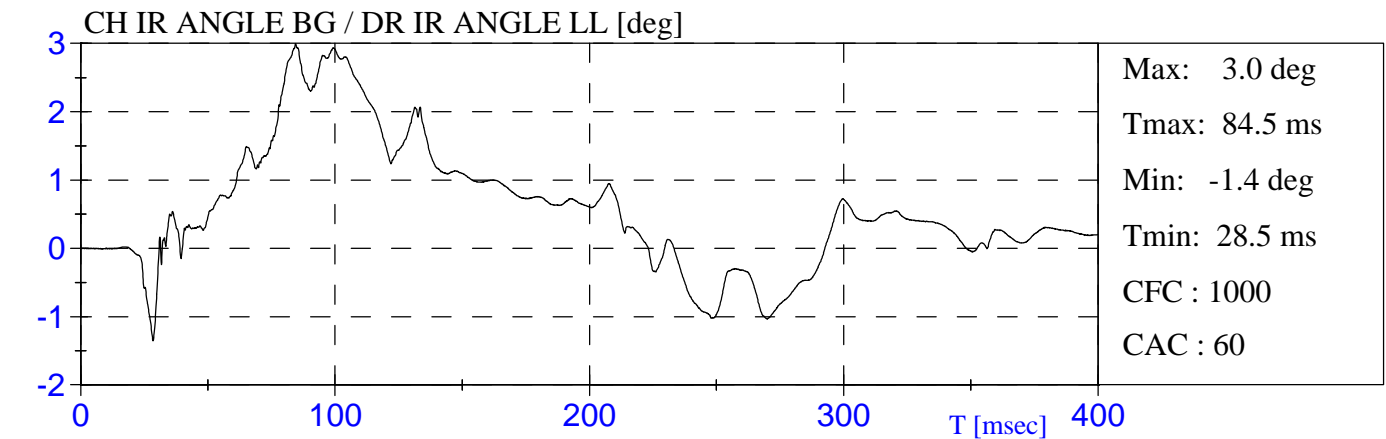
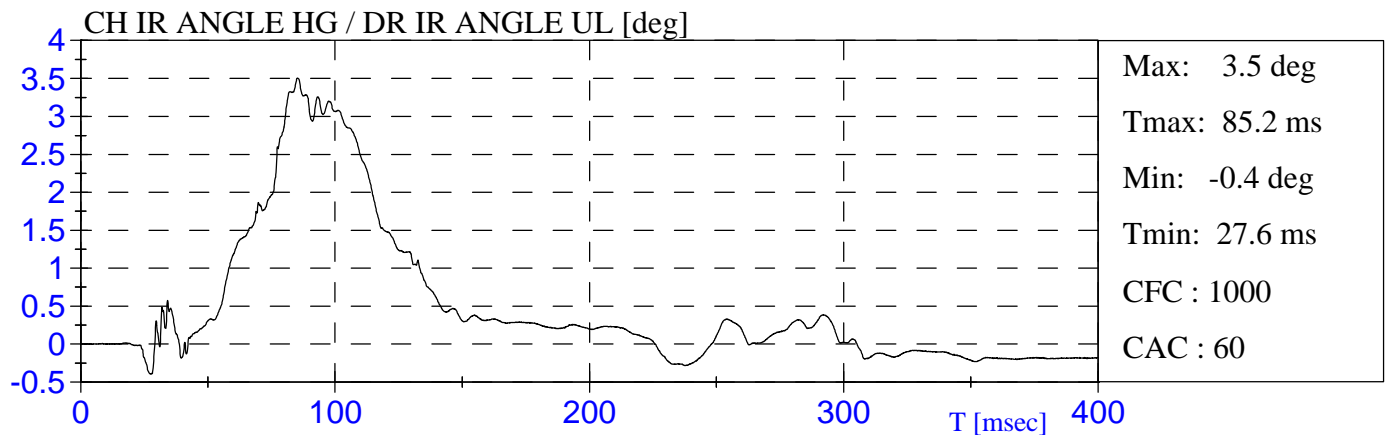
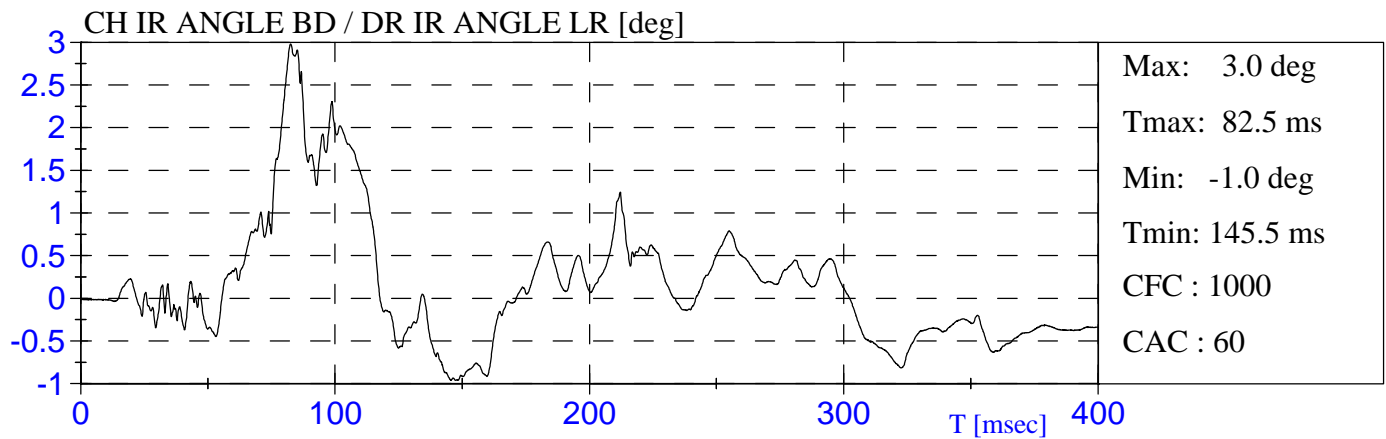
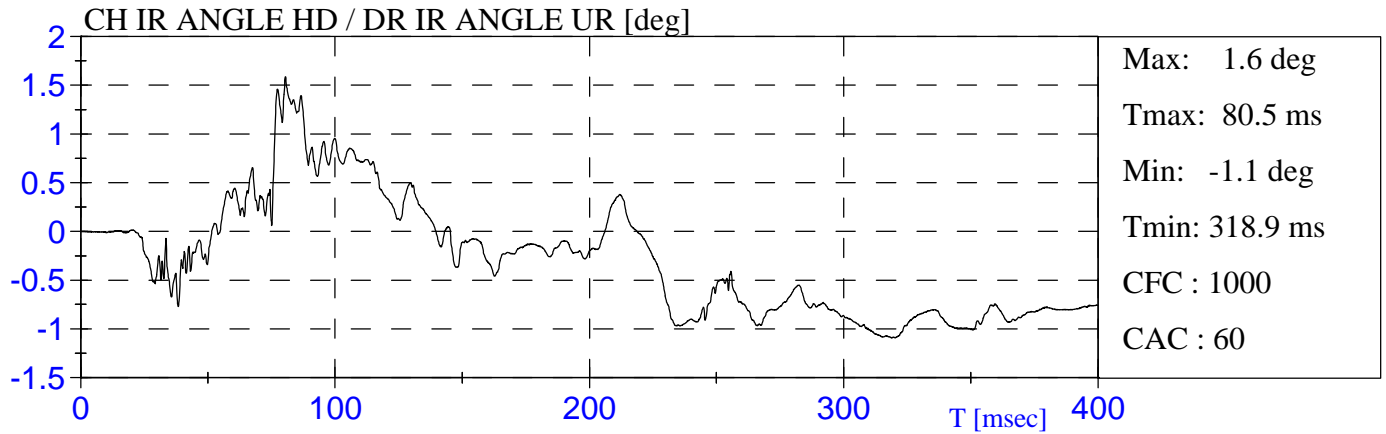




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GRAND PRIX 2004

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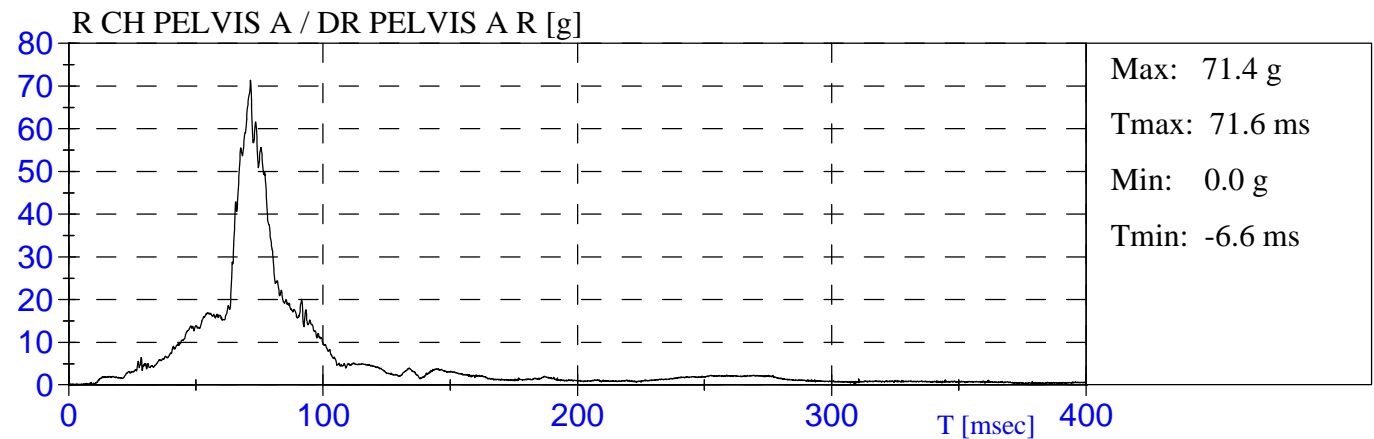
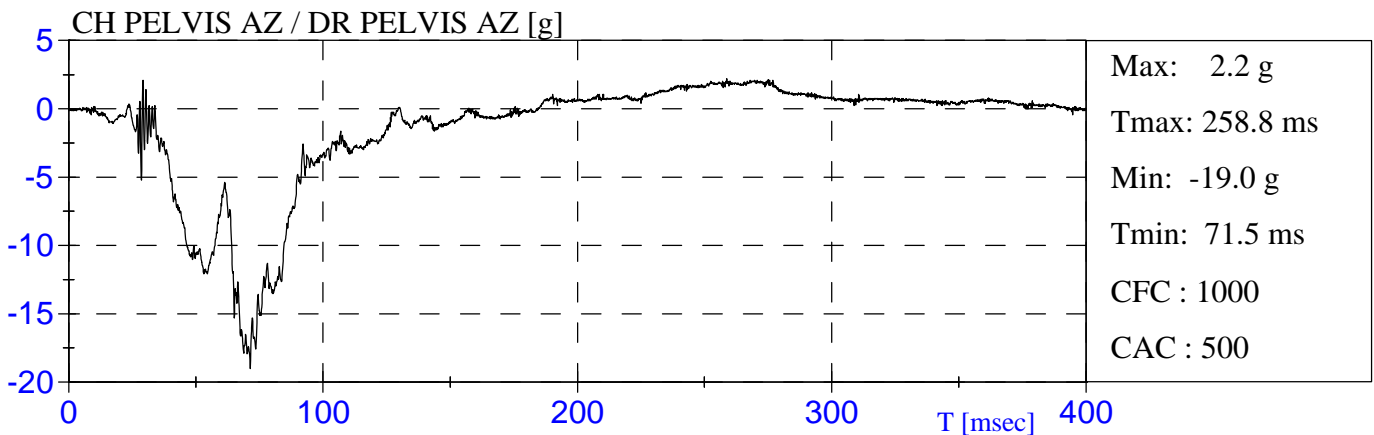
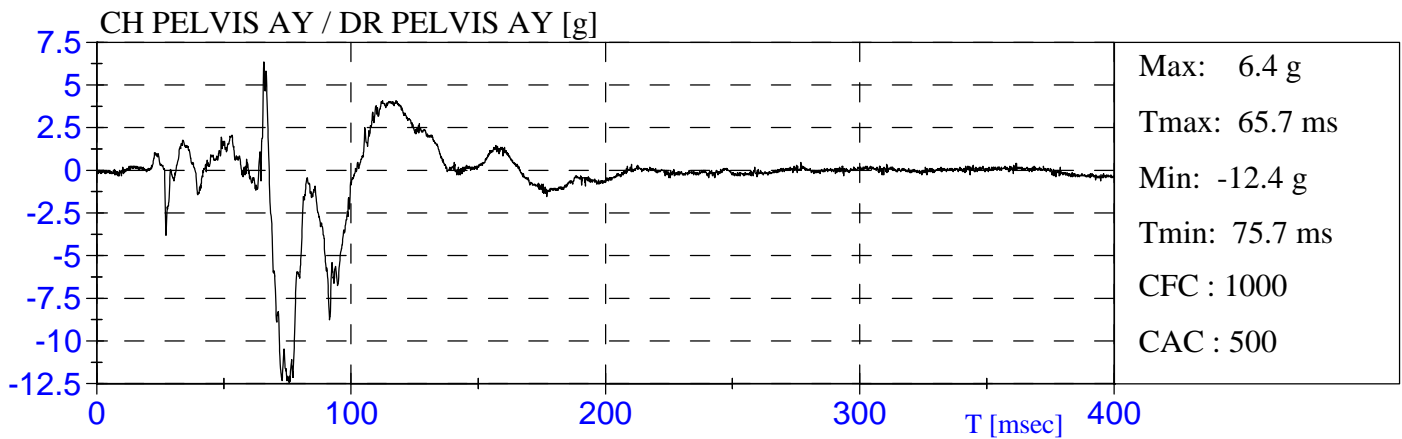
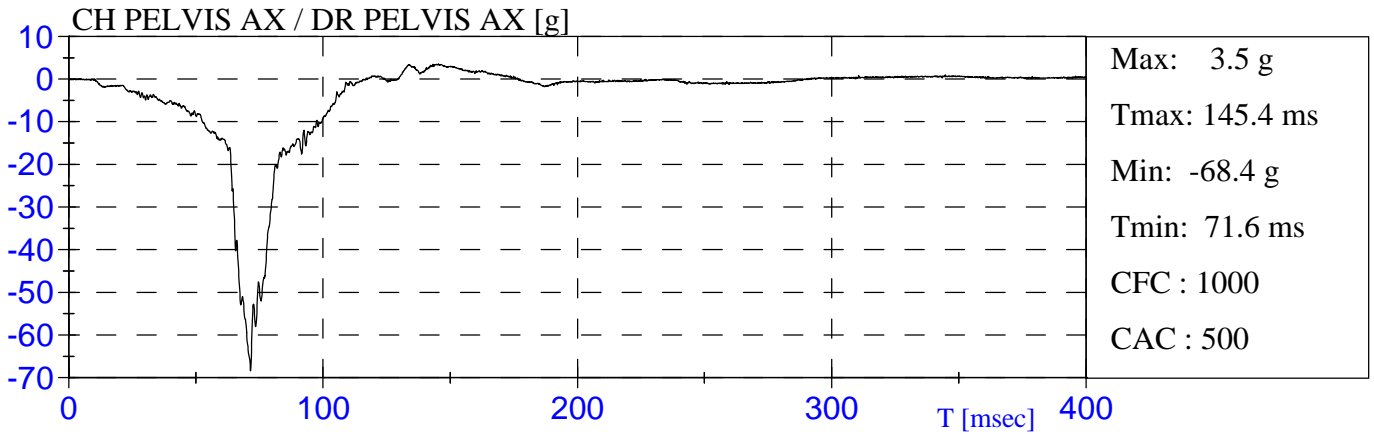




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GRAND PRIX 2004

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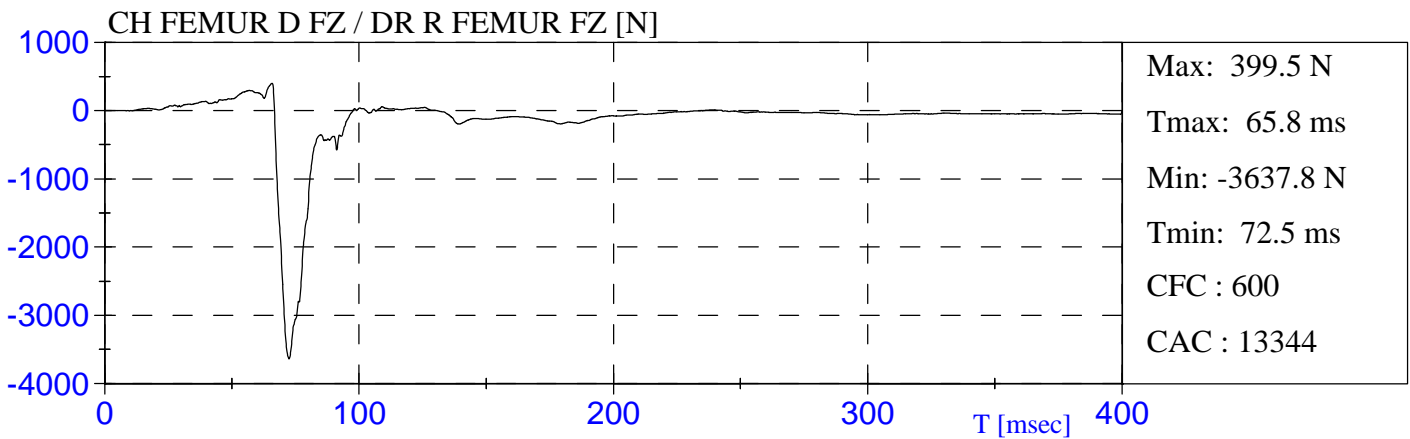
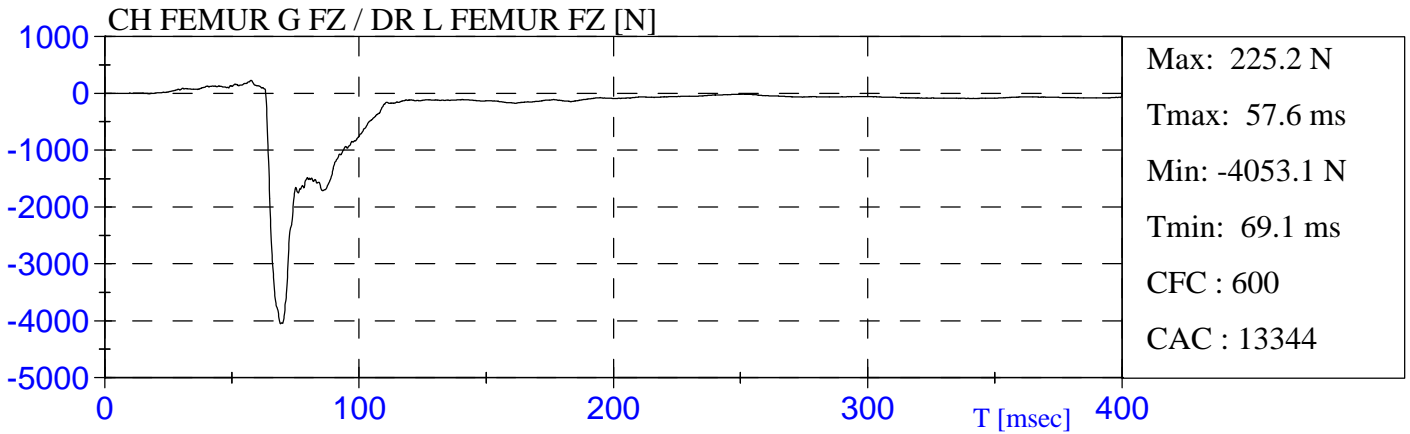




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GRAND PRIX 2004

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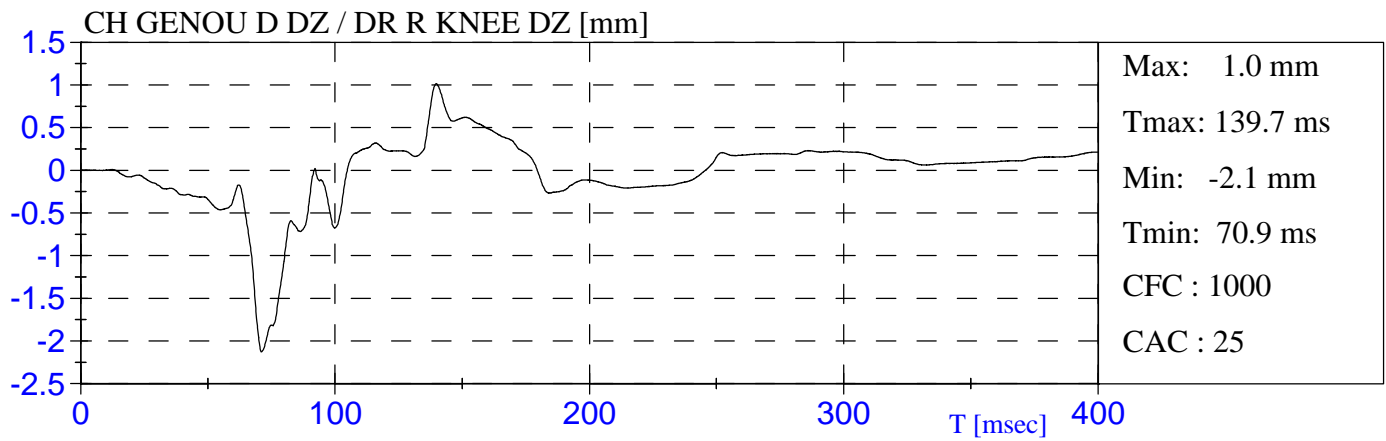
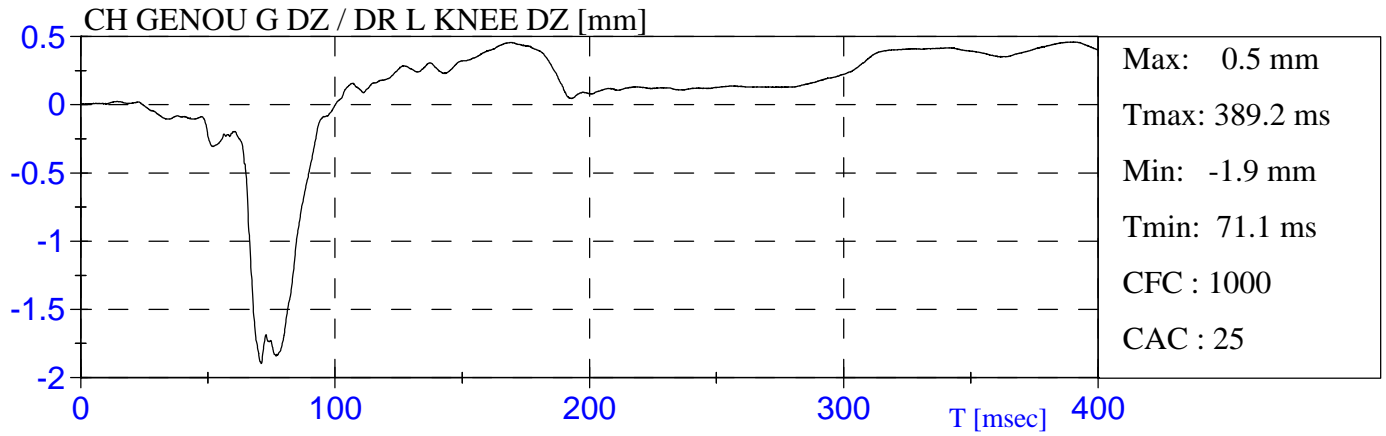




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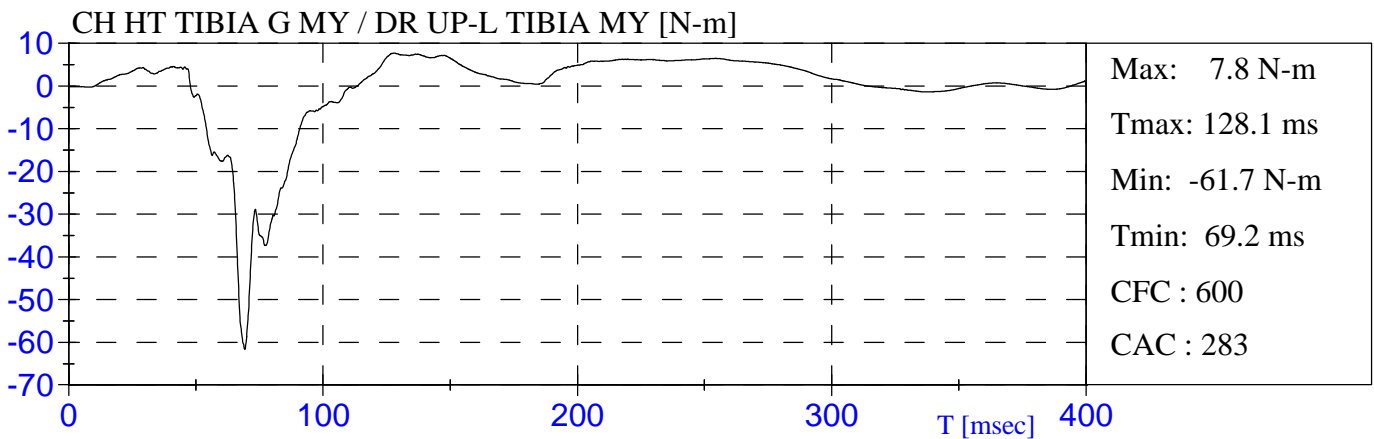
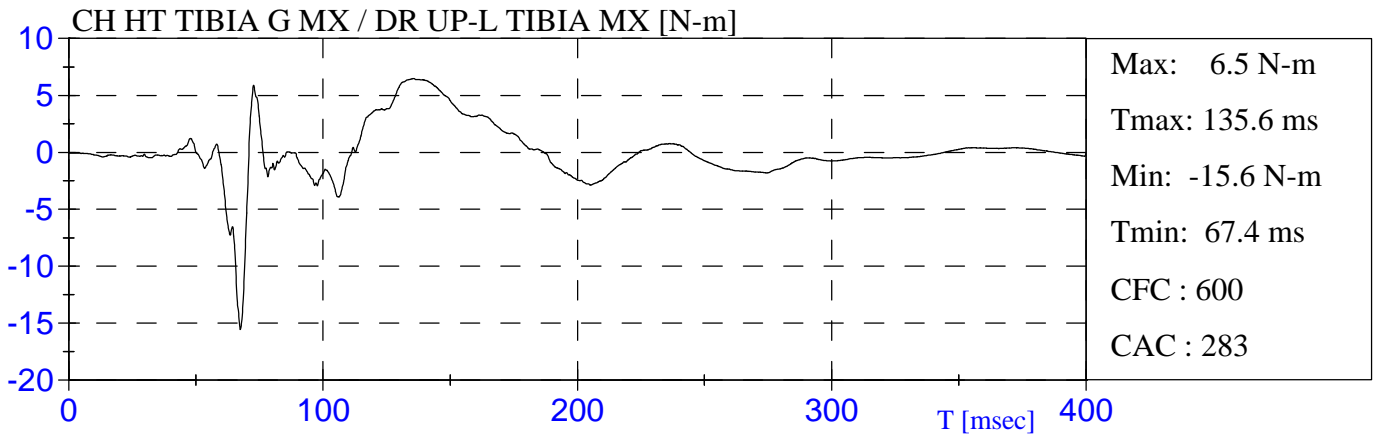
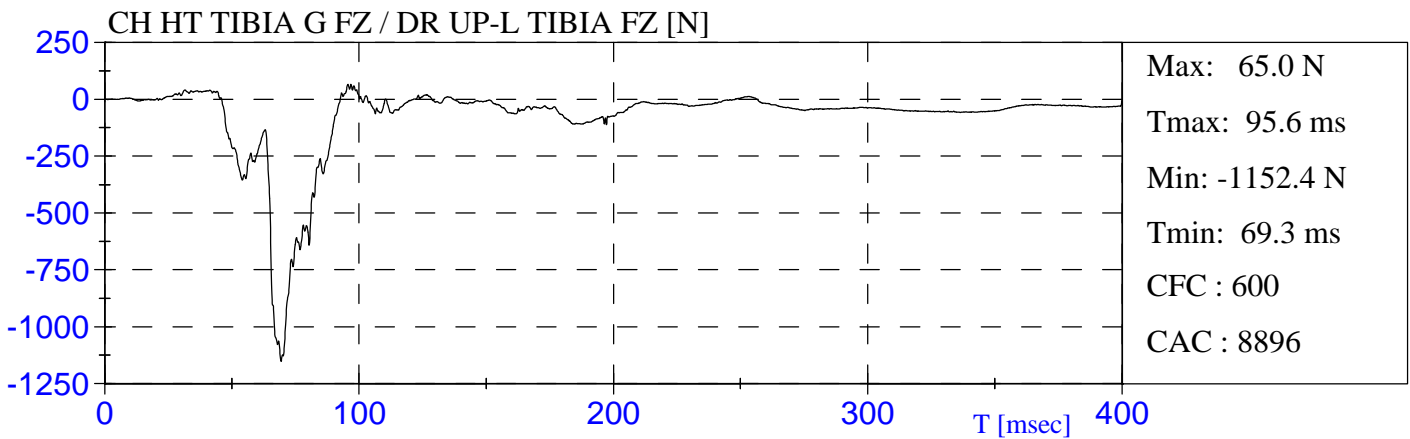
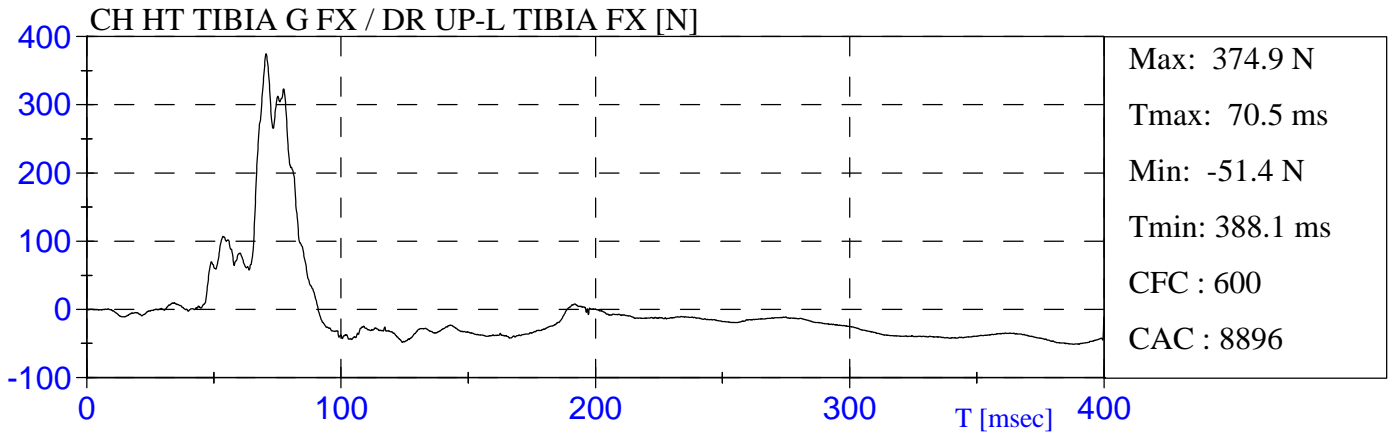




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GRAND PRIX 2004

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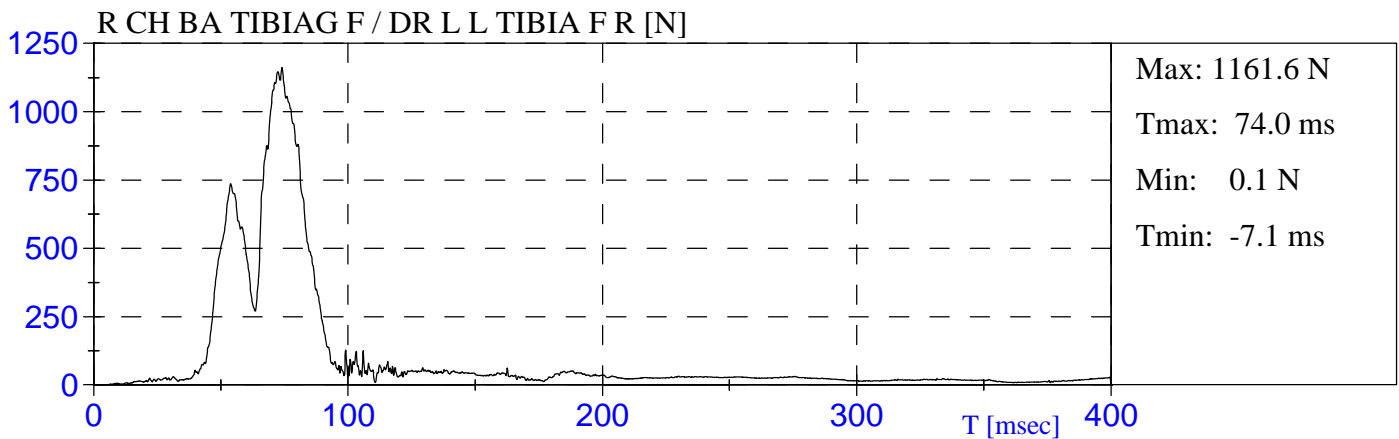
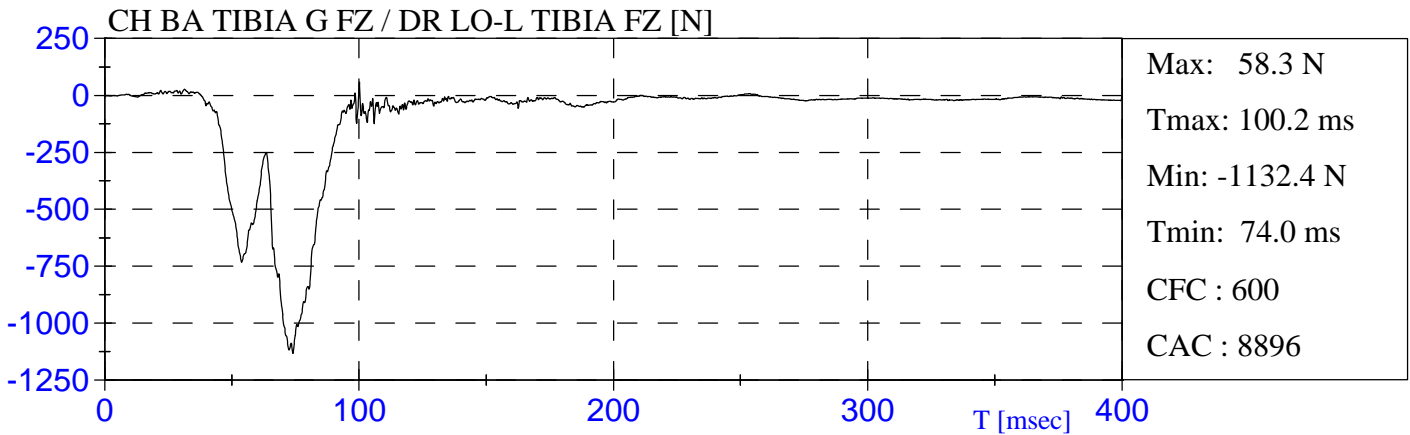
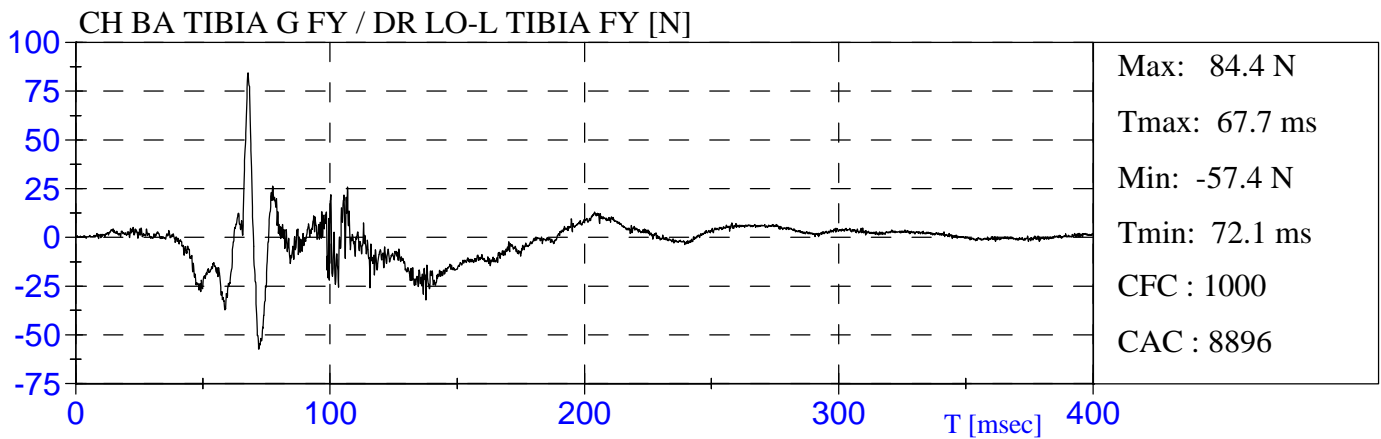
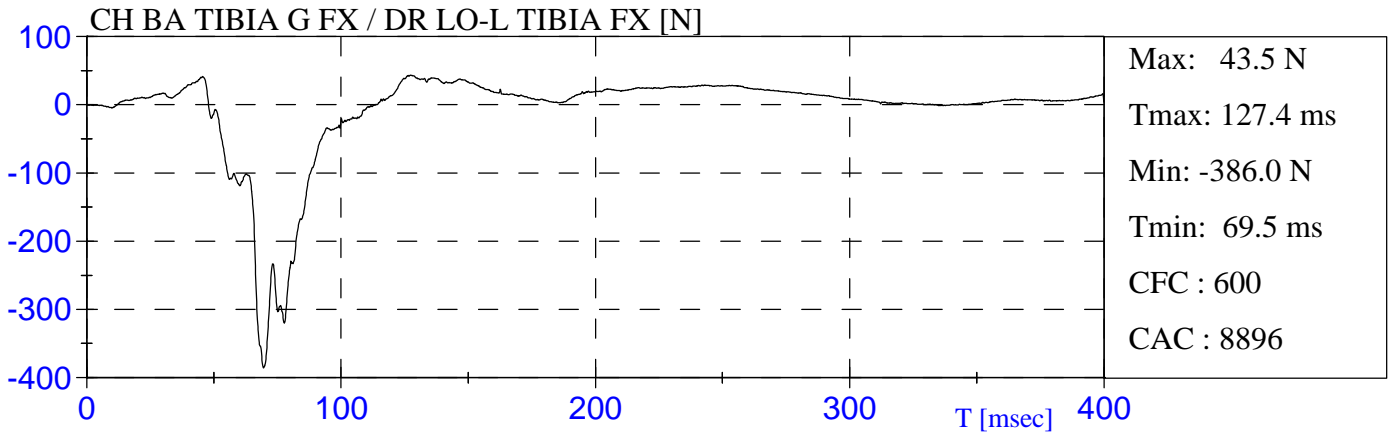
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COLLISION FRONTALE
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GRAND PRIX 2004

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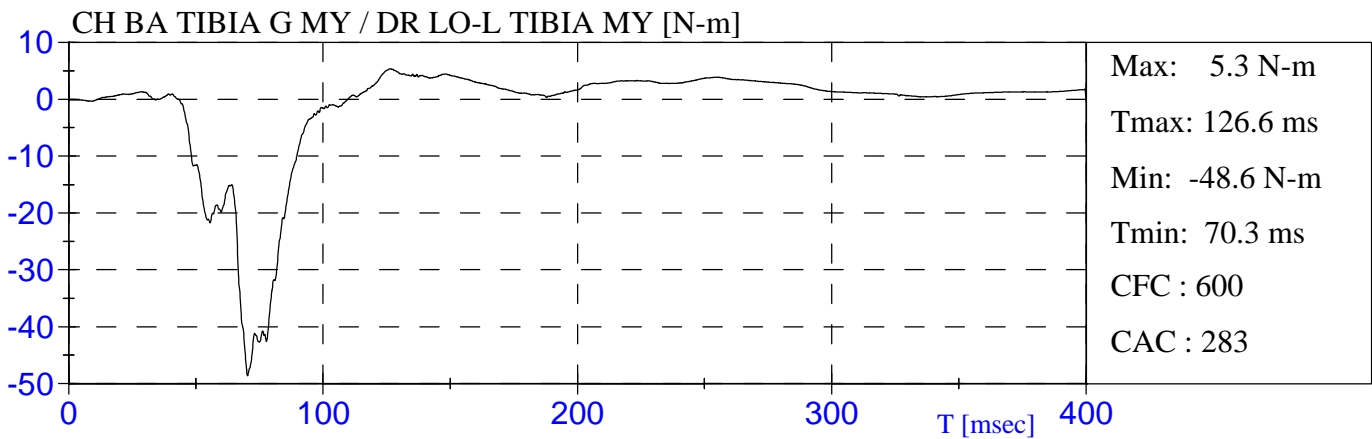
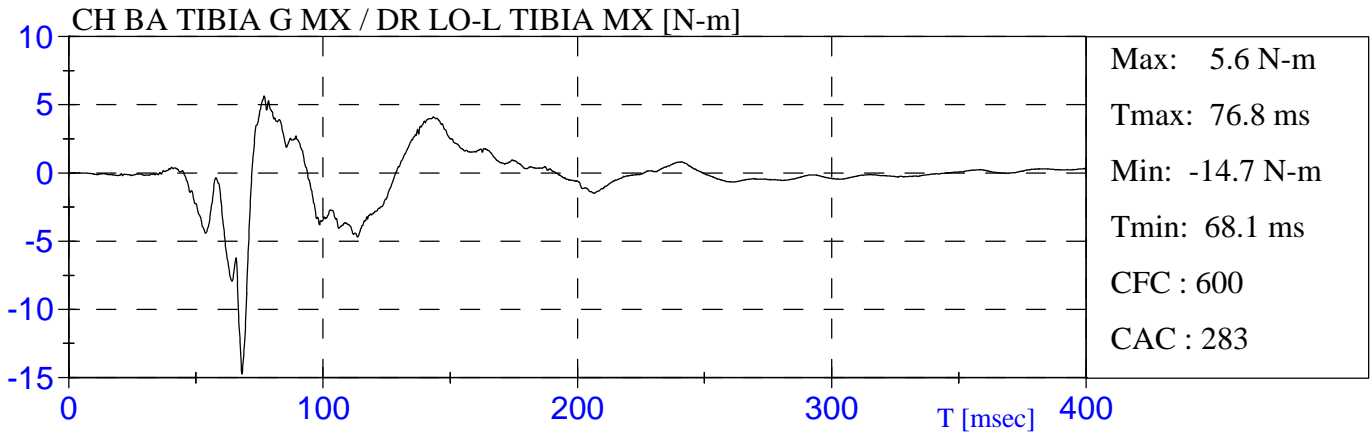




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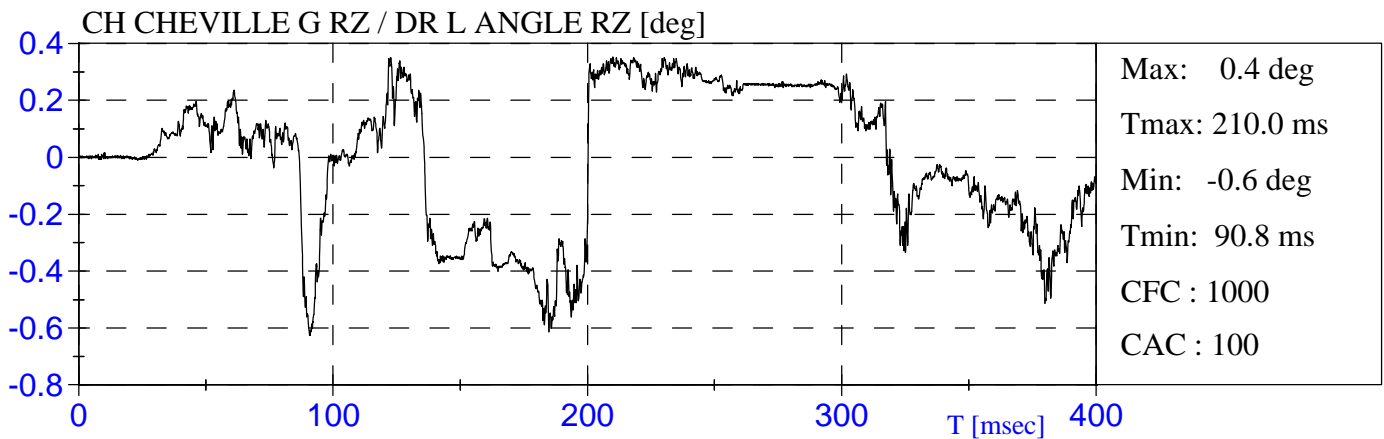
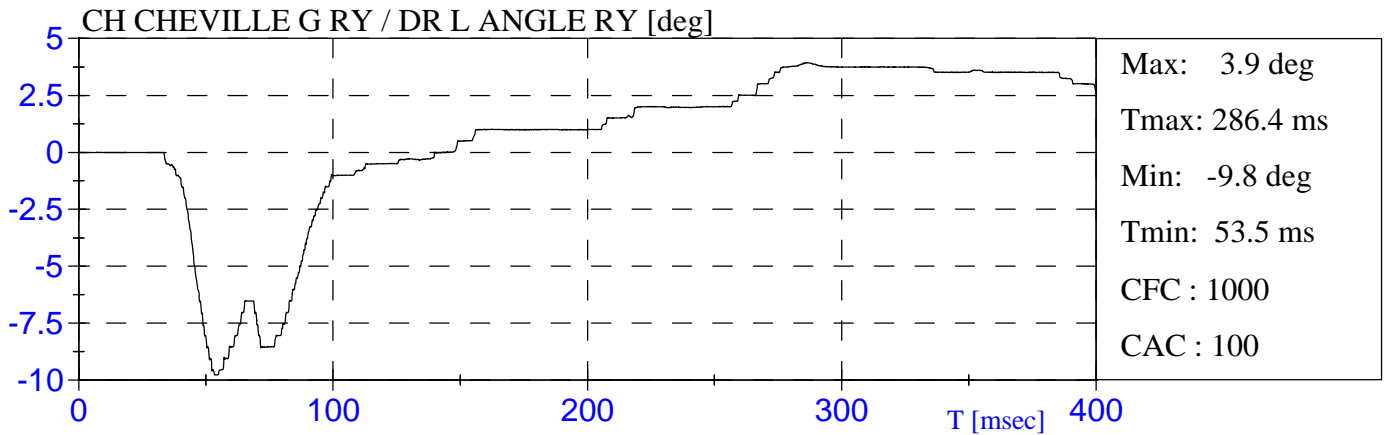
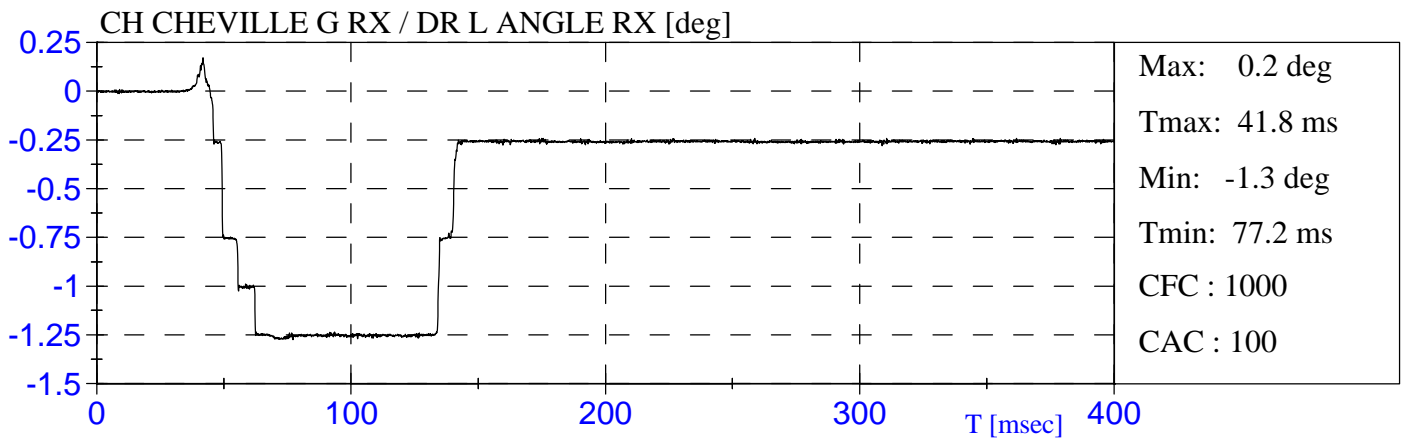
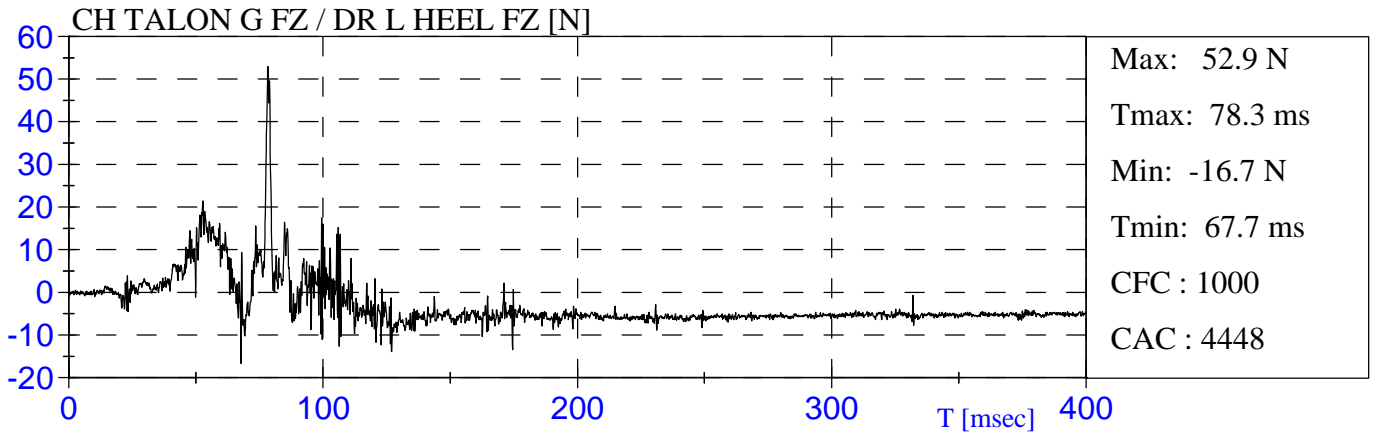
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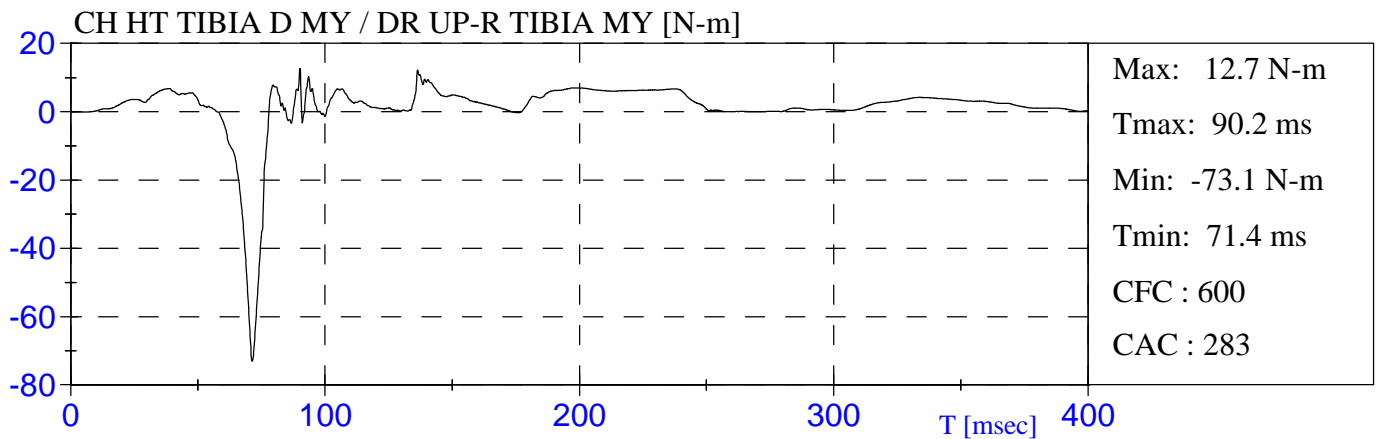
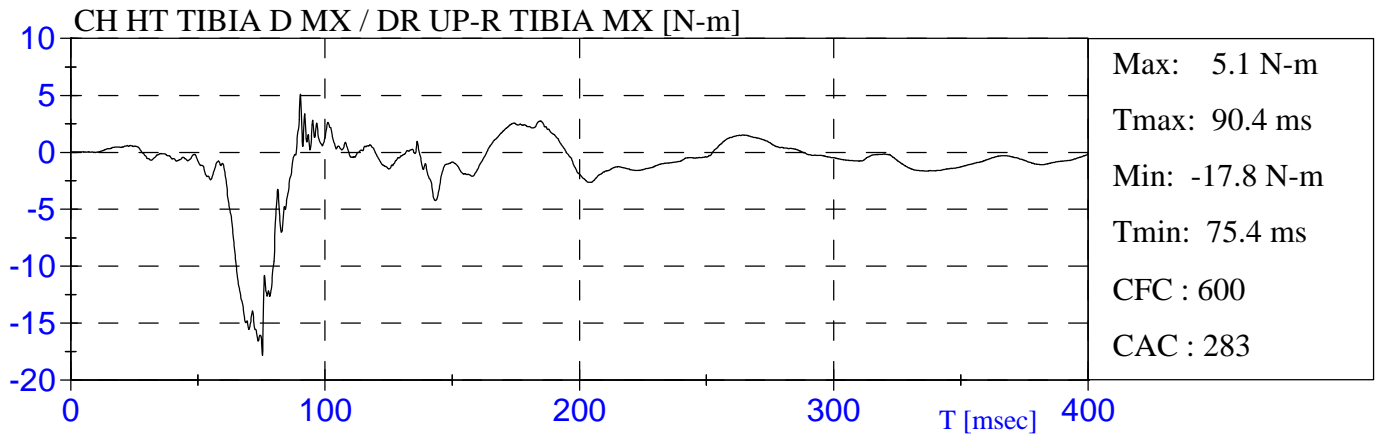
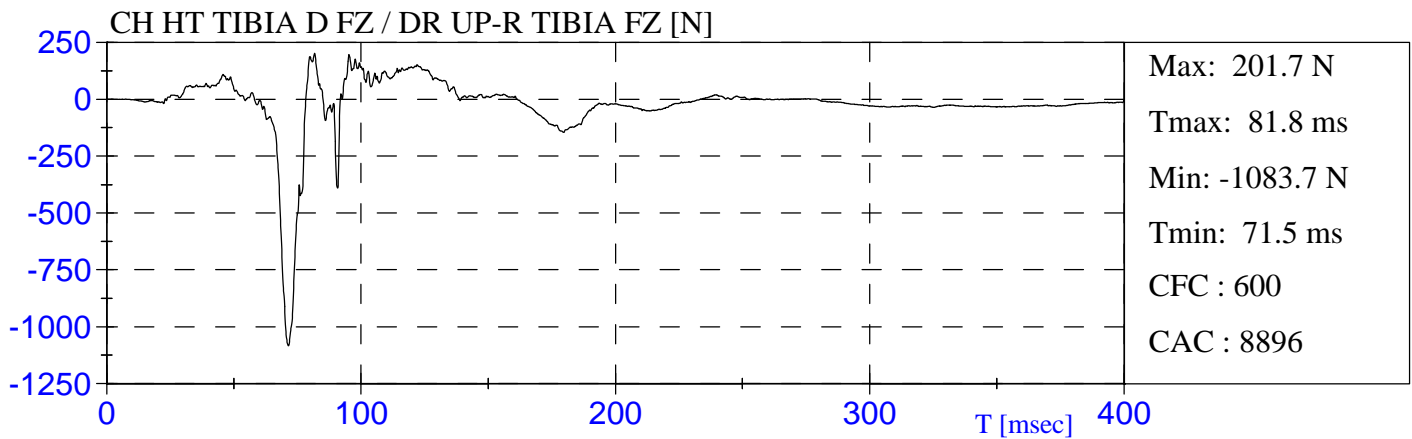
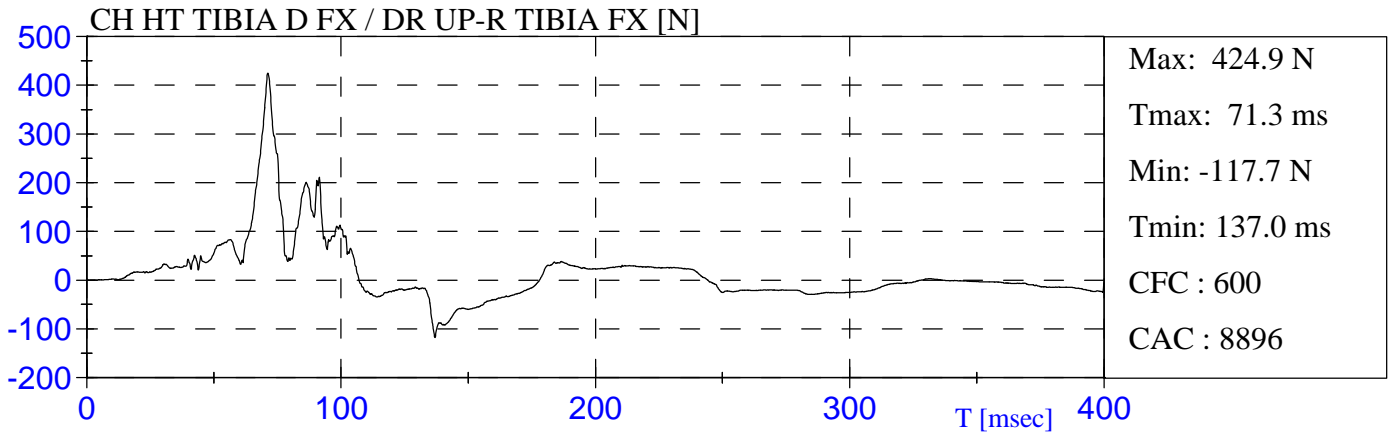


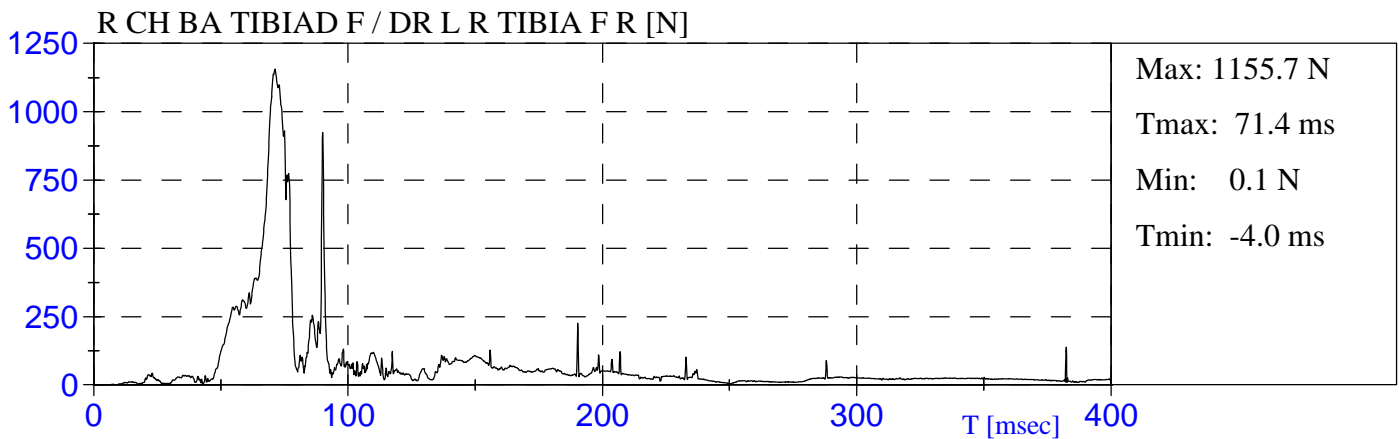
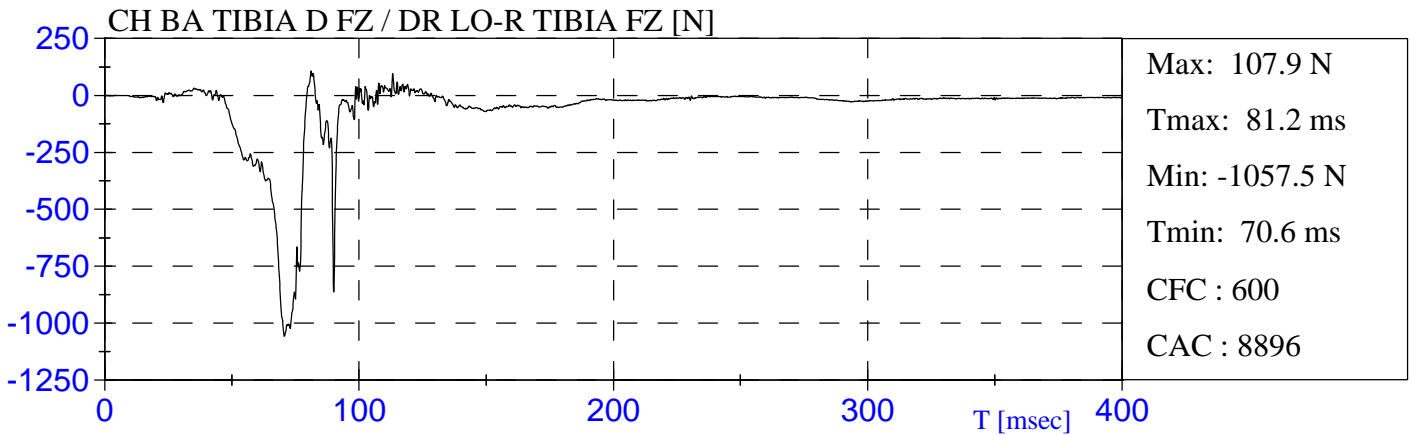
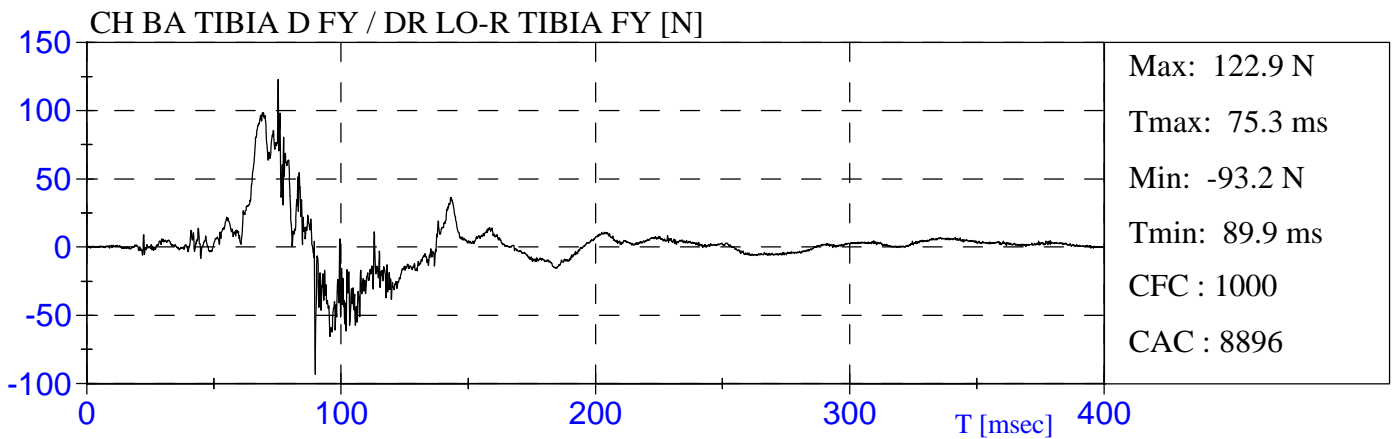
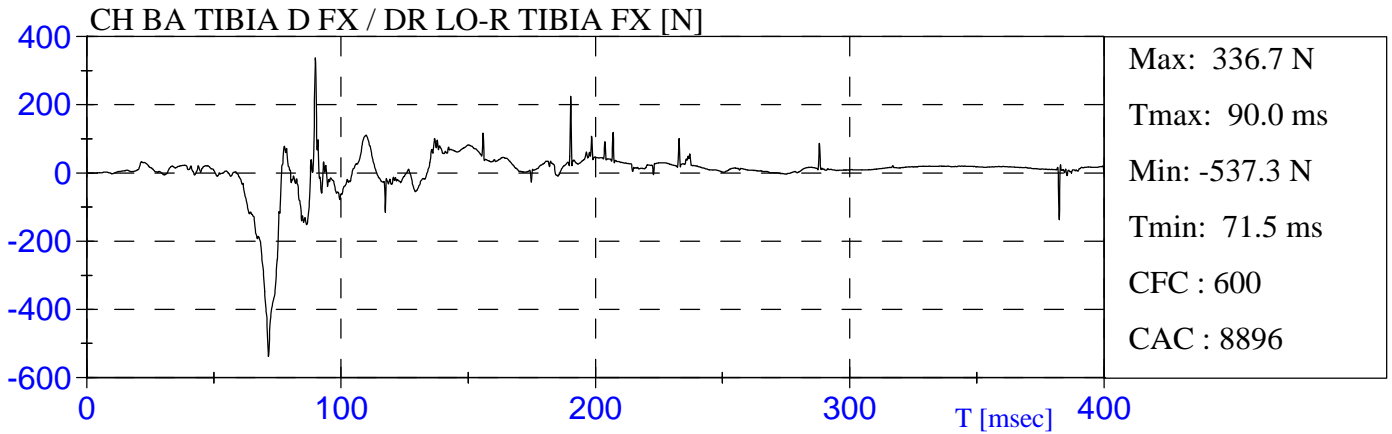


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GRAND PRIX 2004

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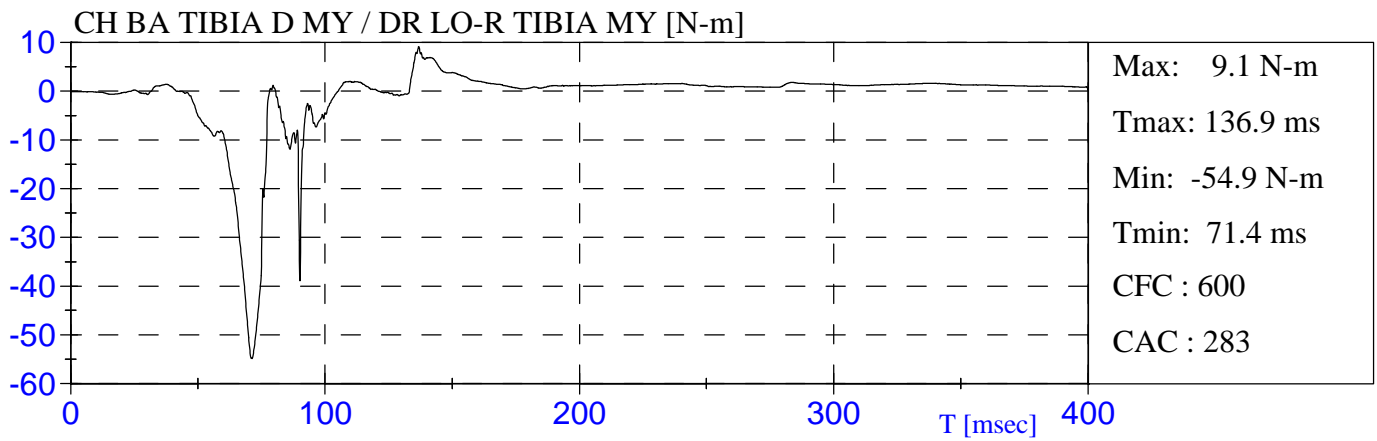
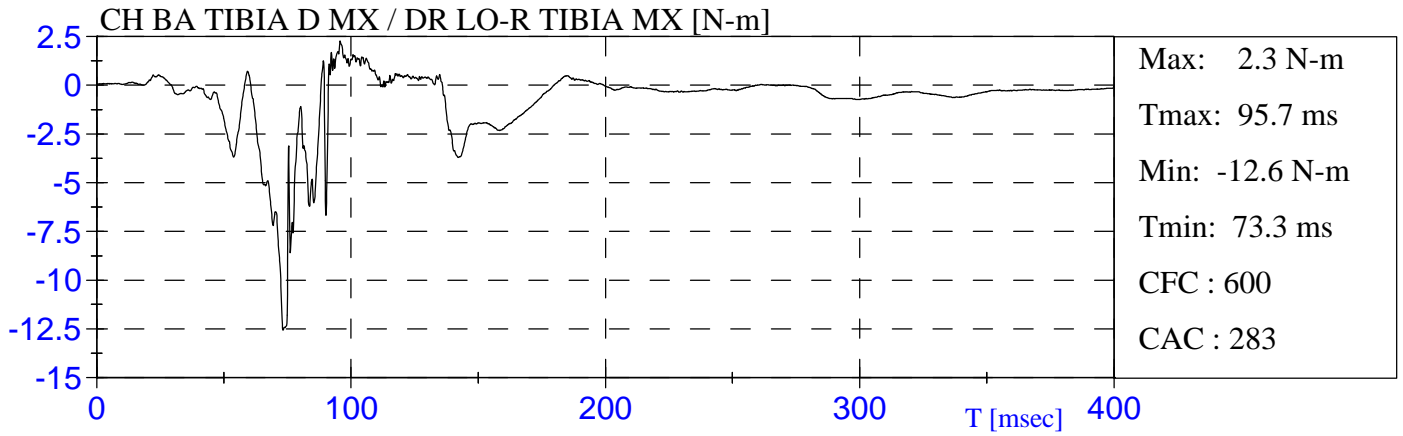




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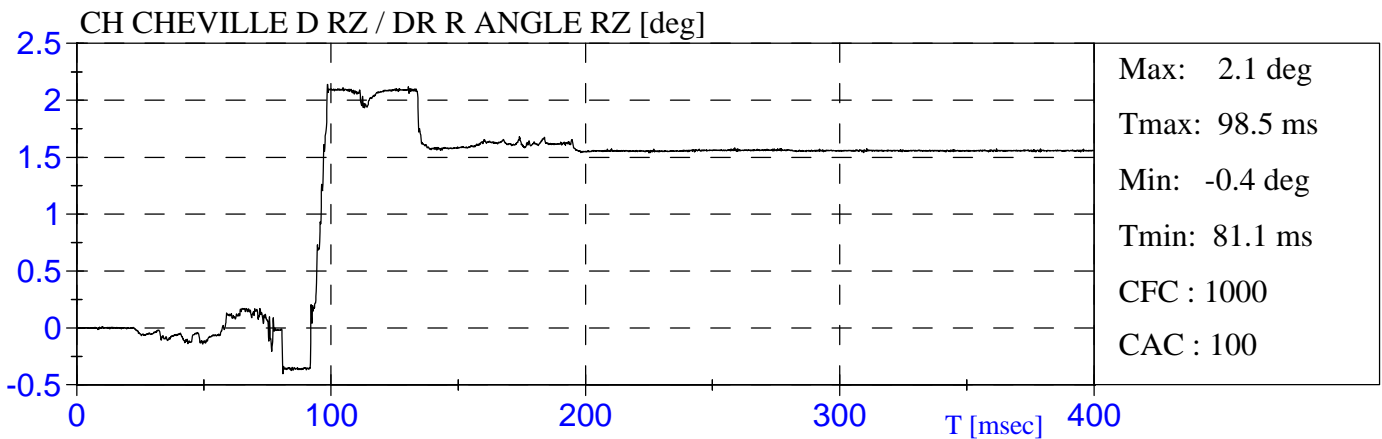
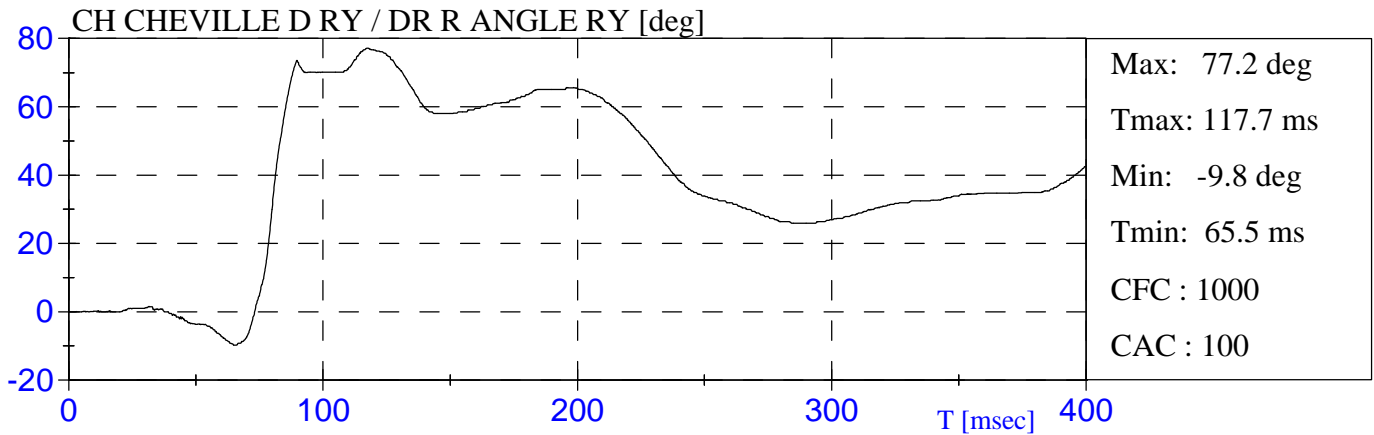
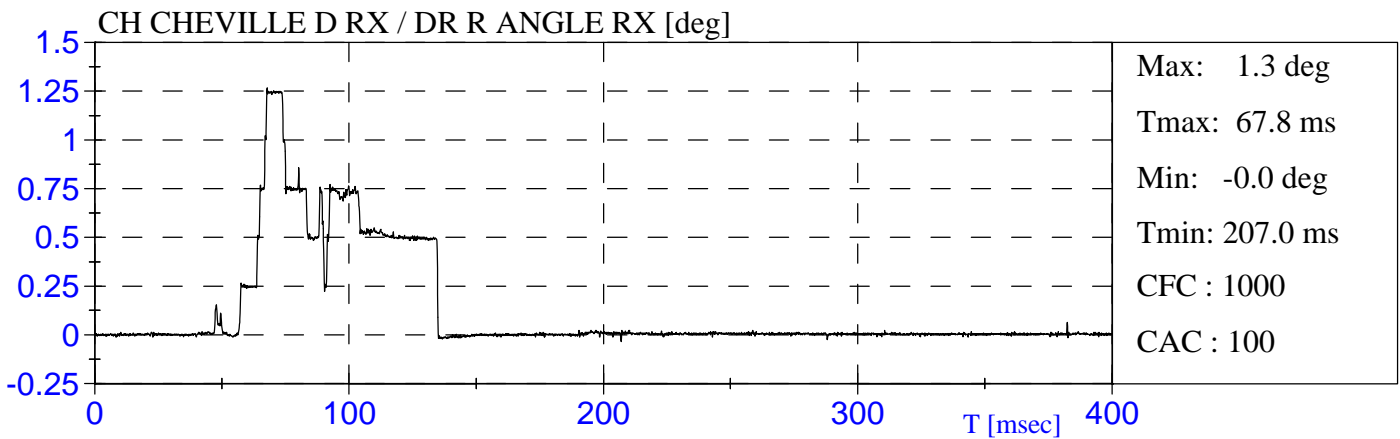
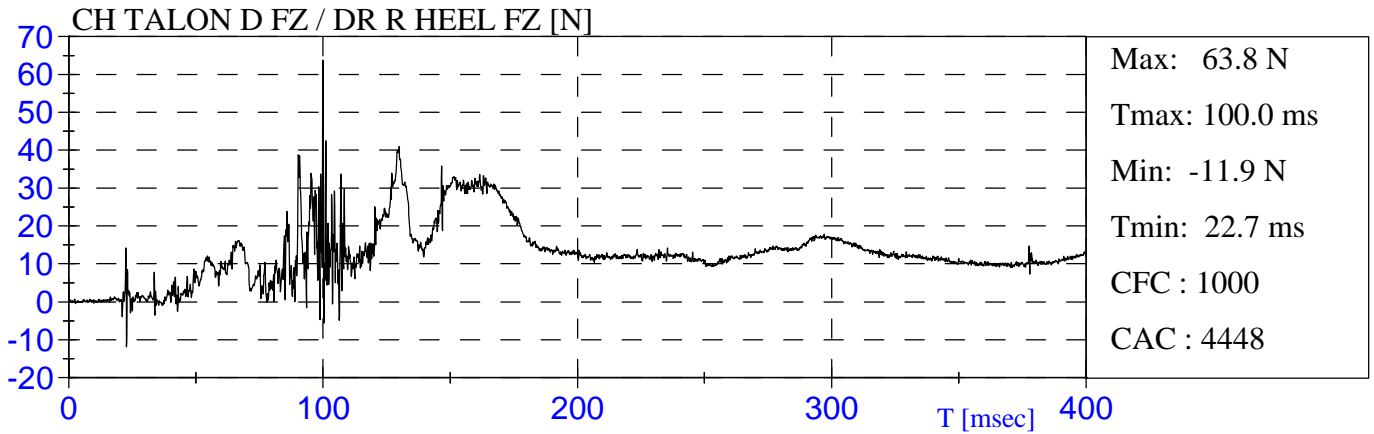




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Date: 2004-02-27

N° TC / TC No.: TC04-119

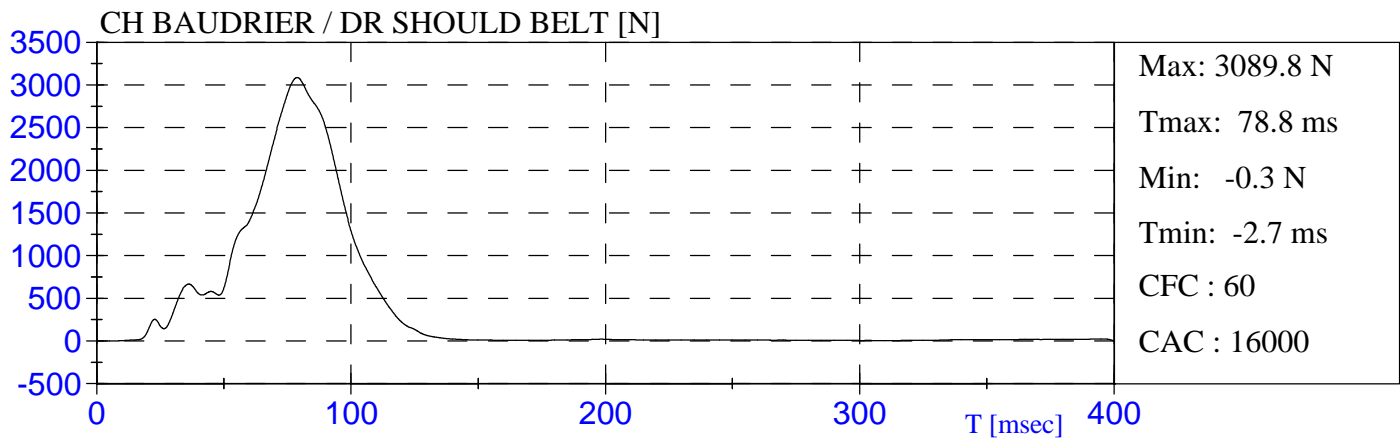
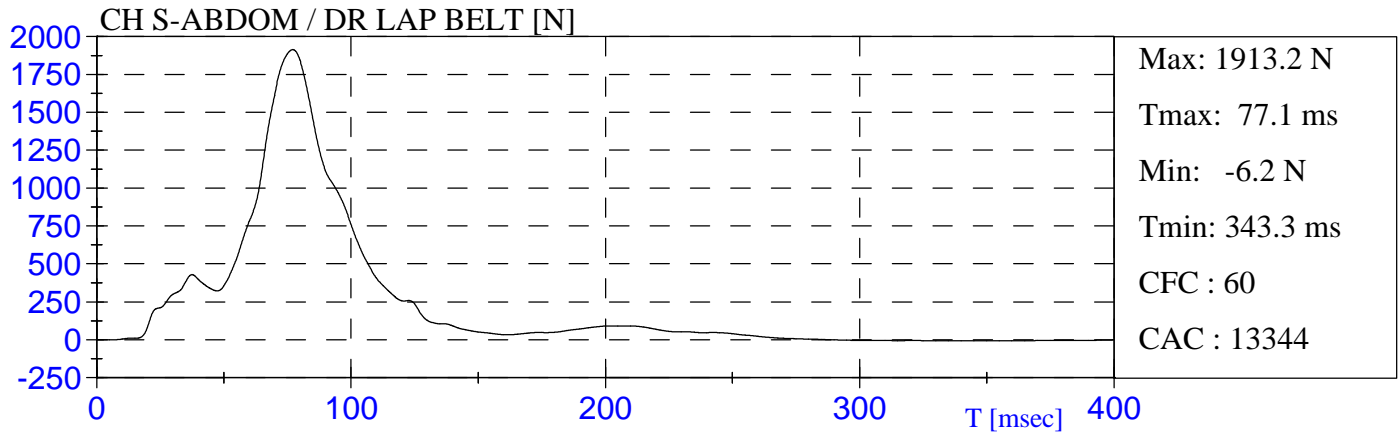


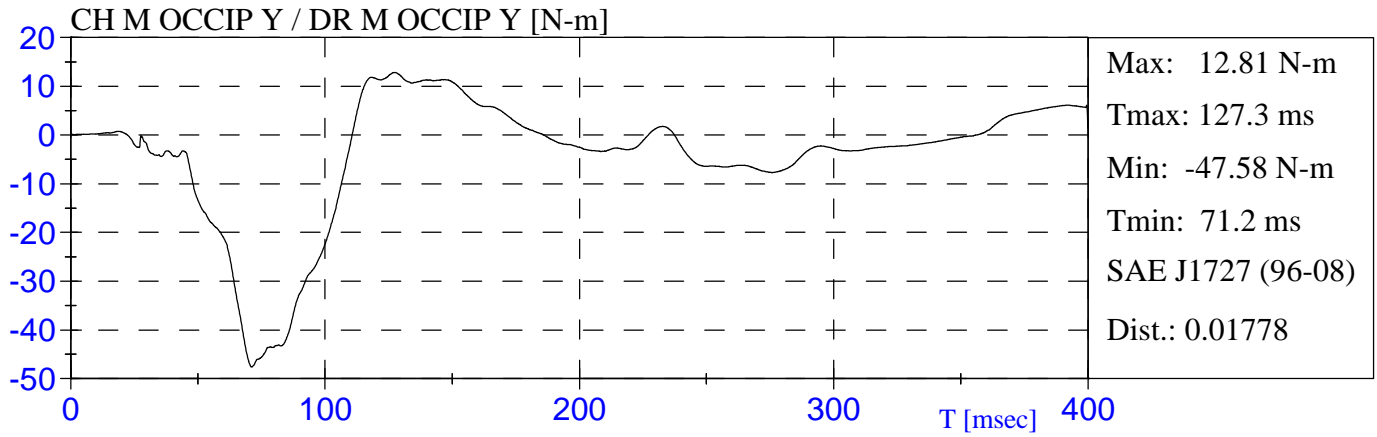


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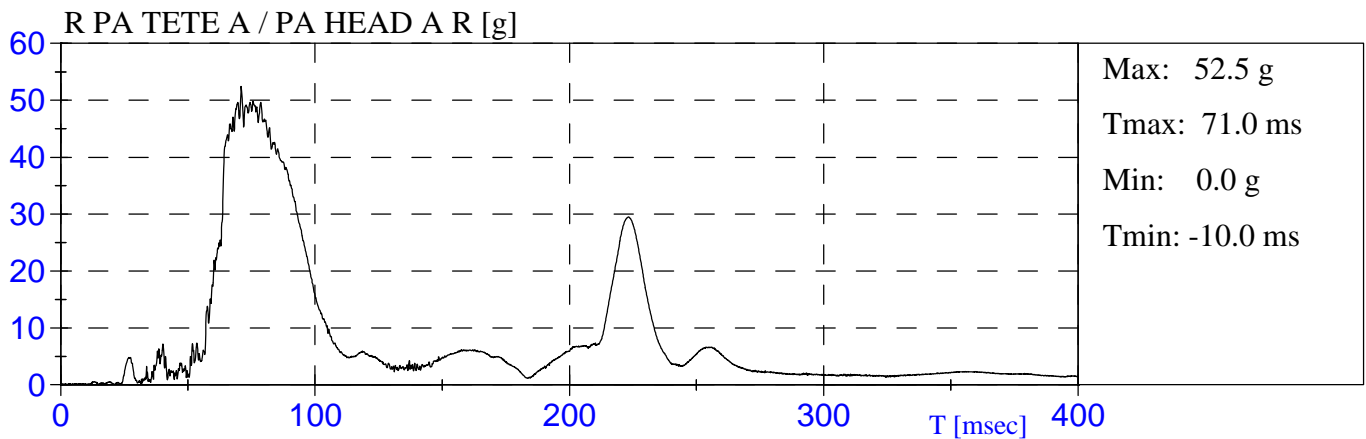
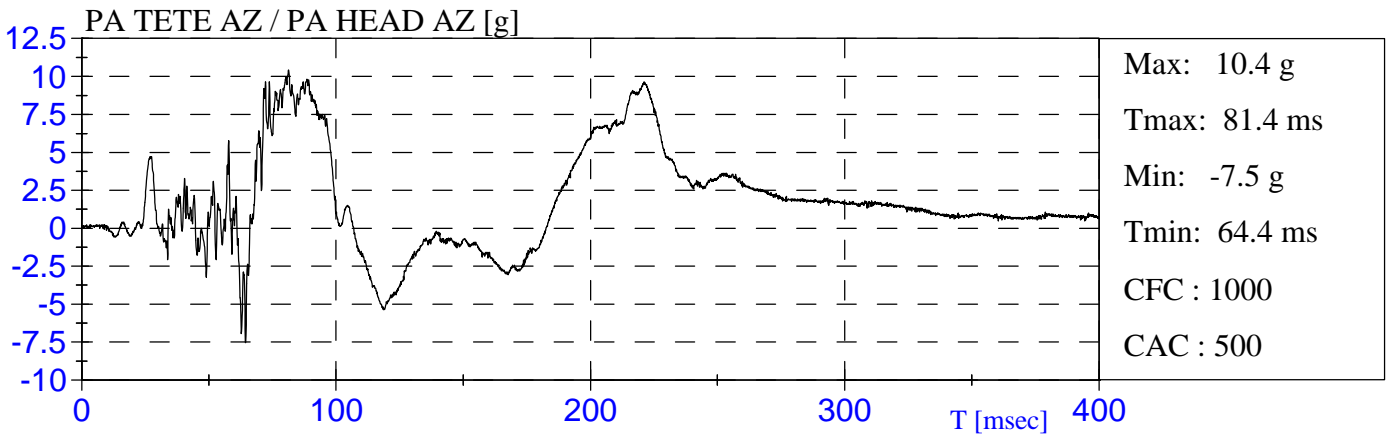
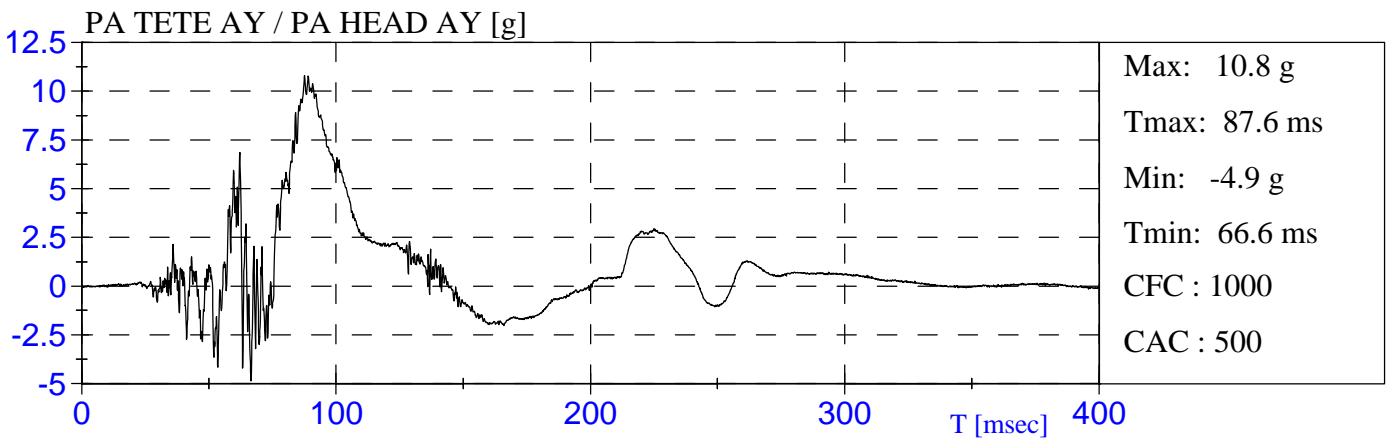
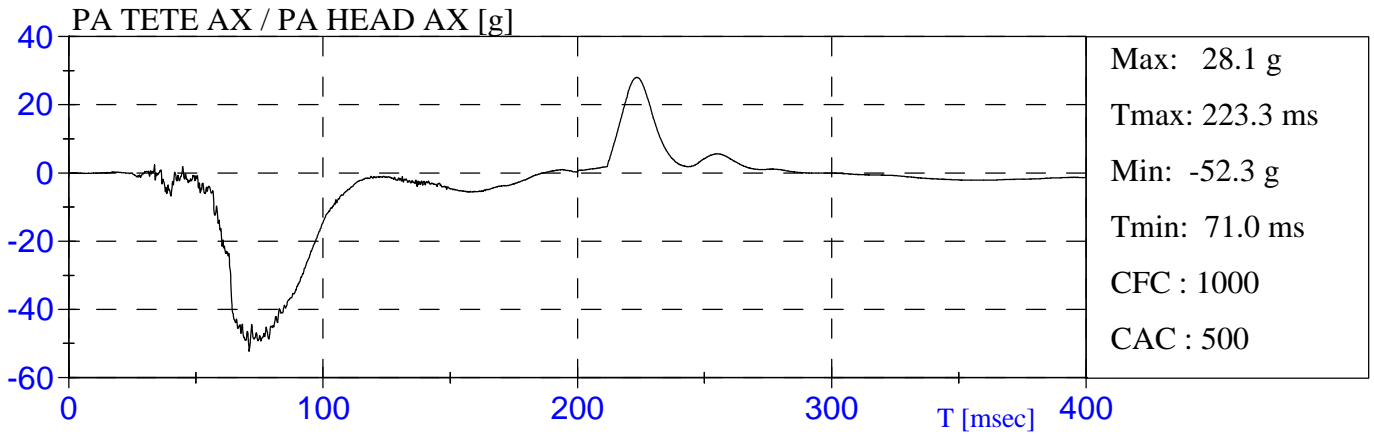




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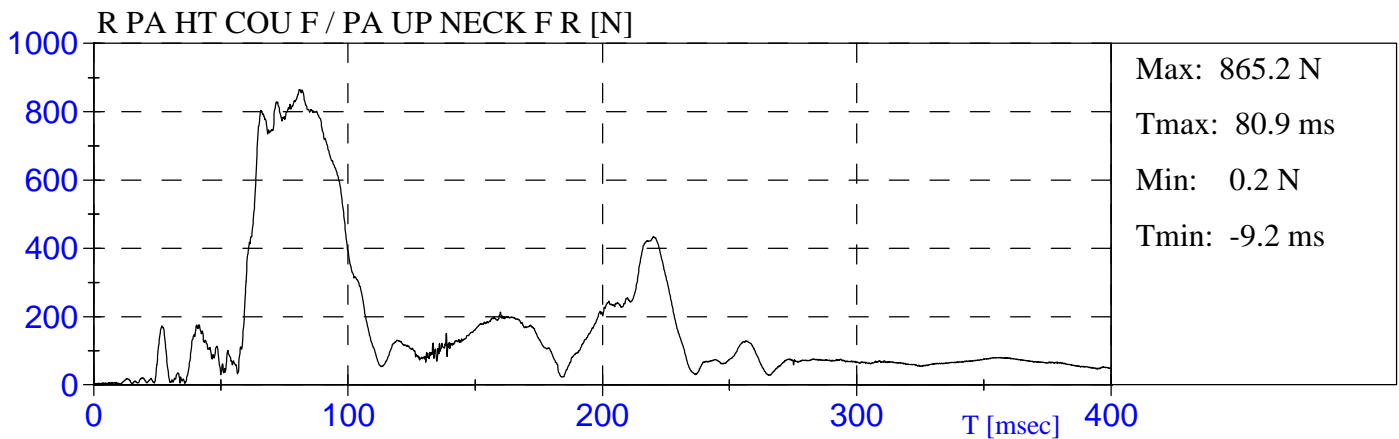
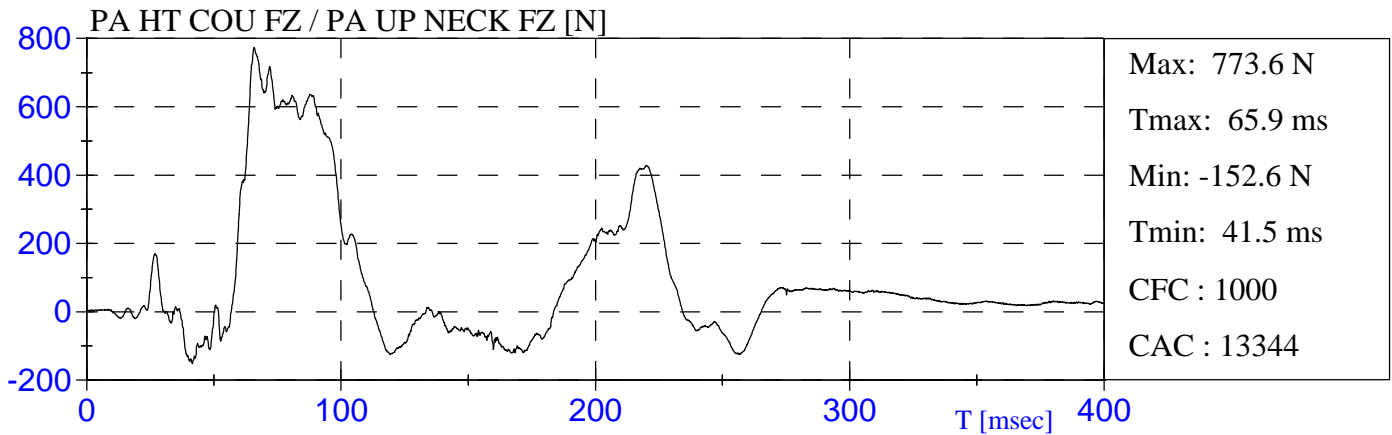
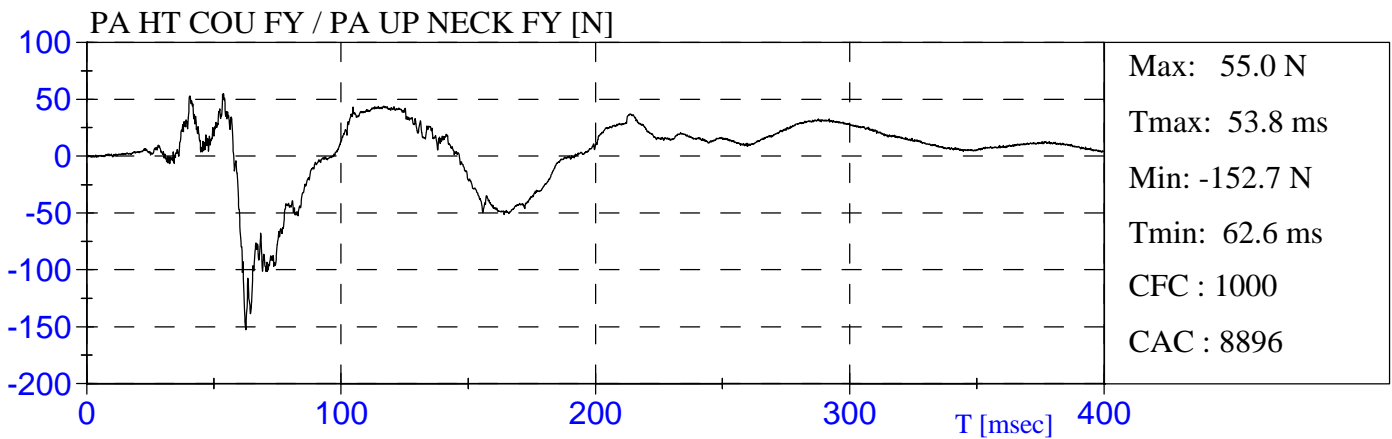
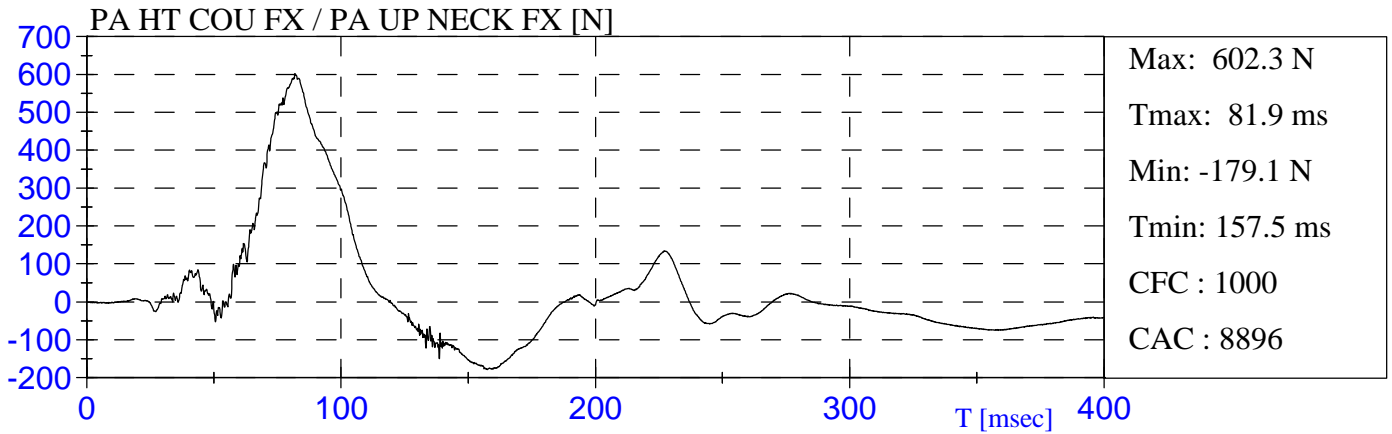




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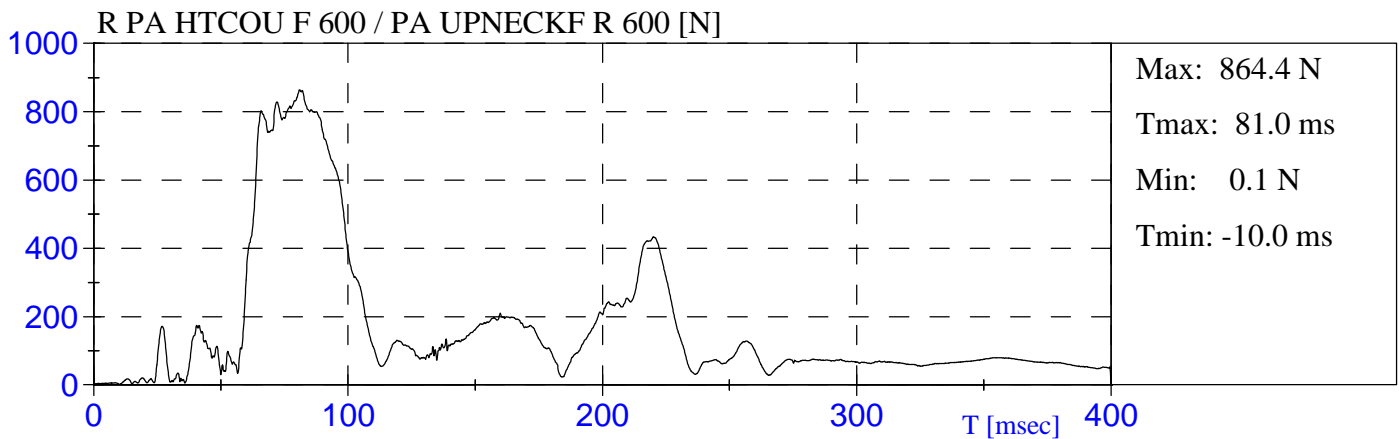
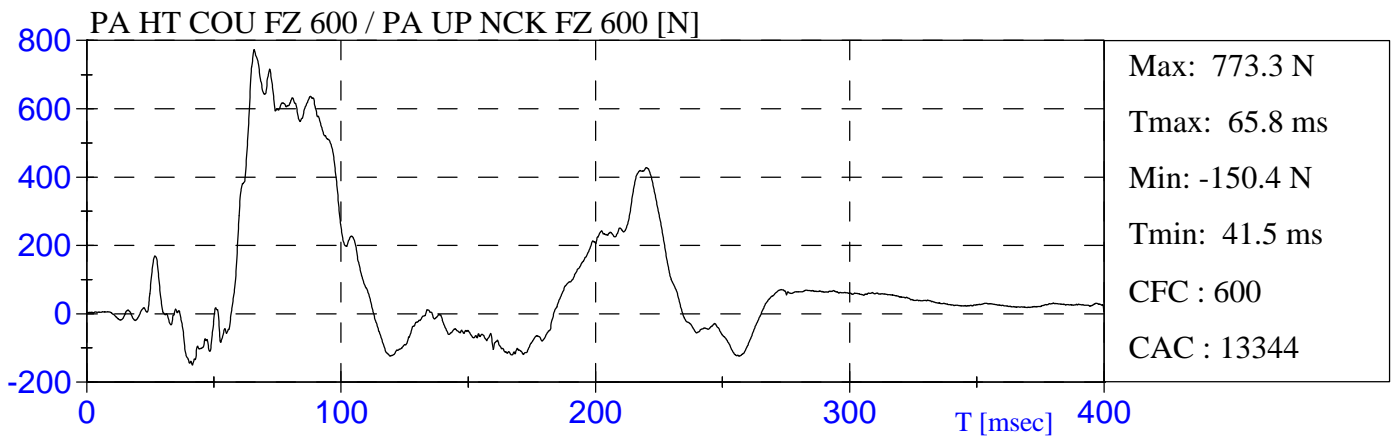
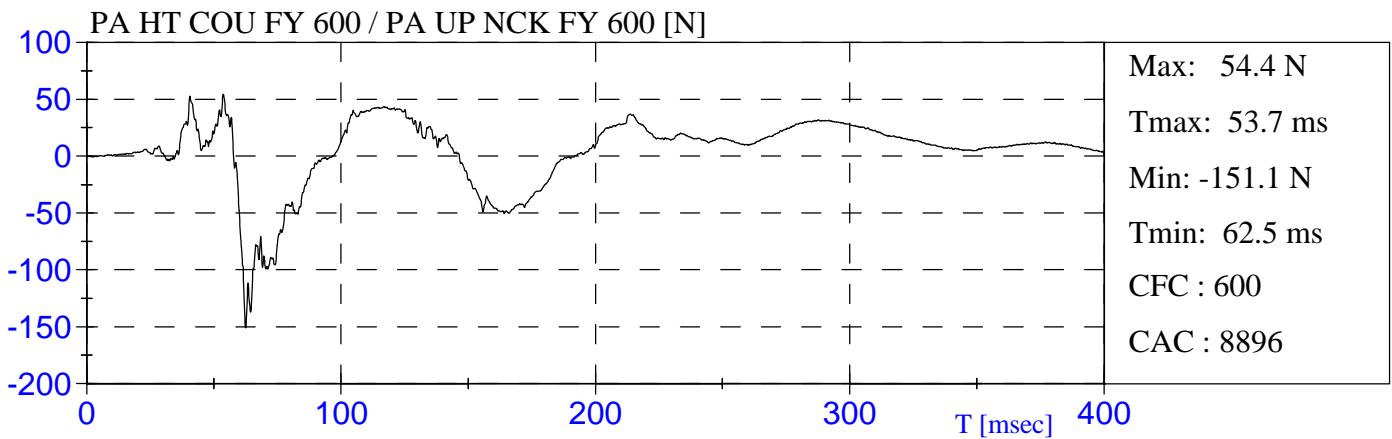
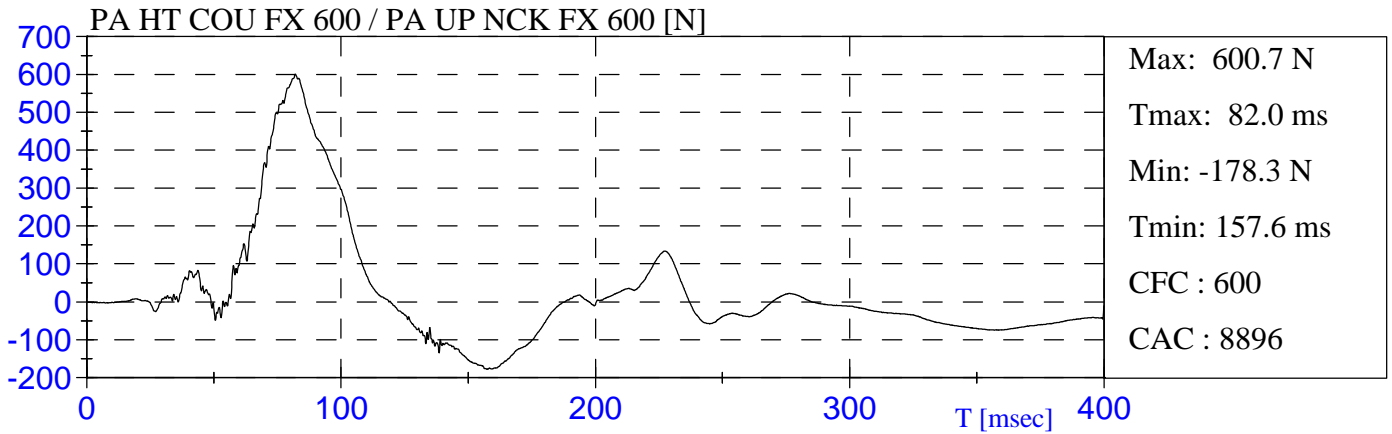




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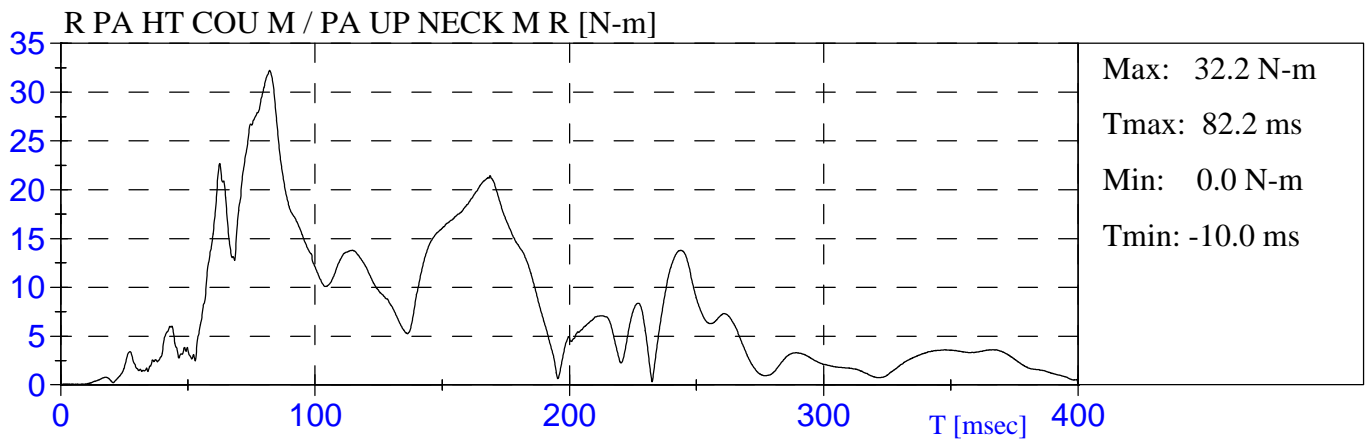
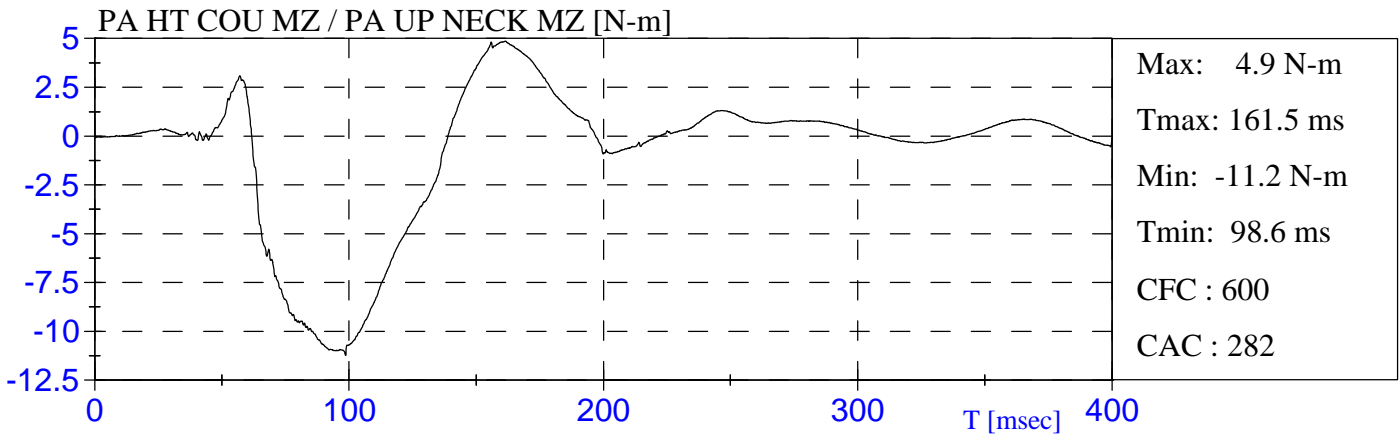
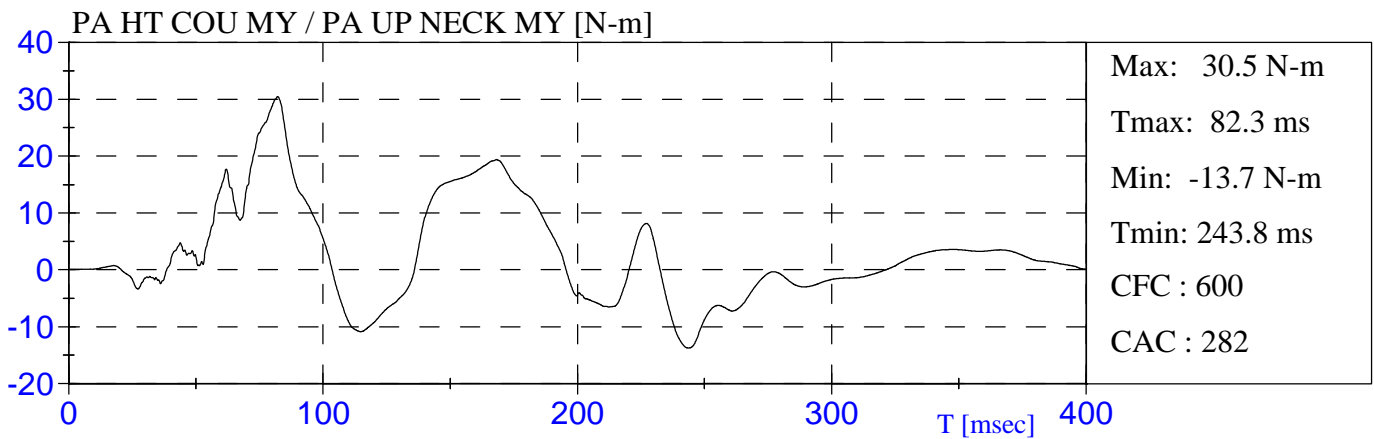
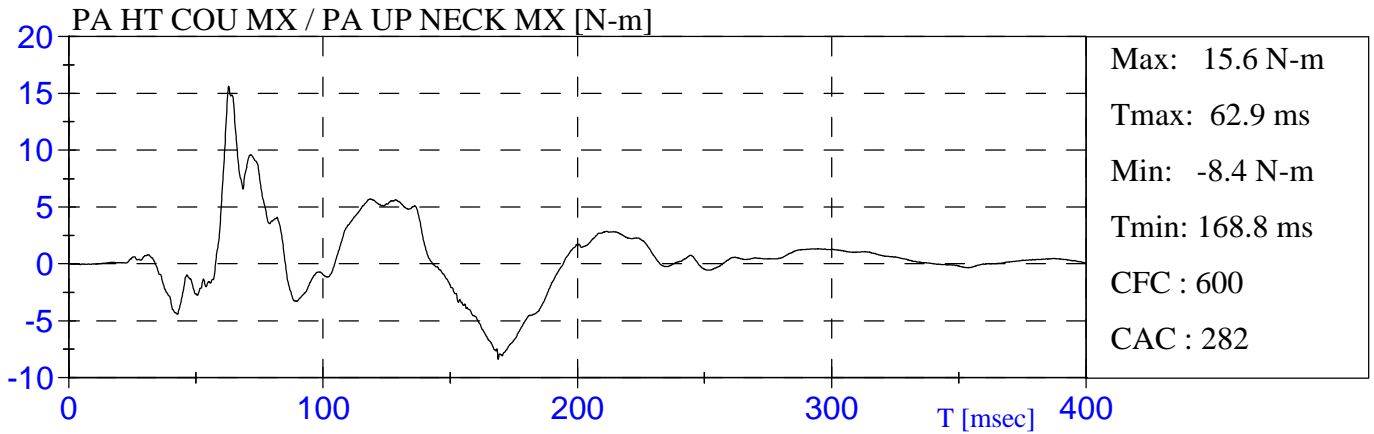




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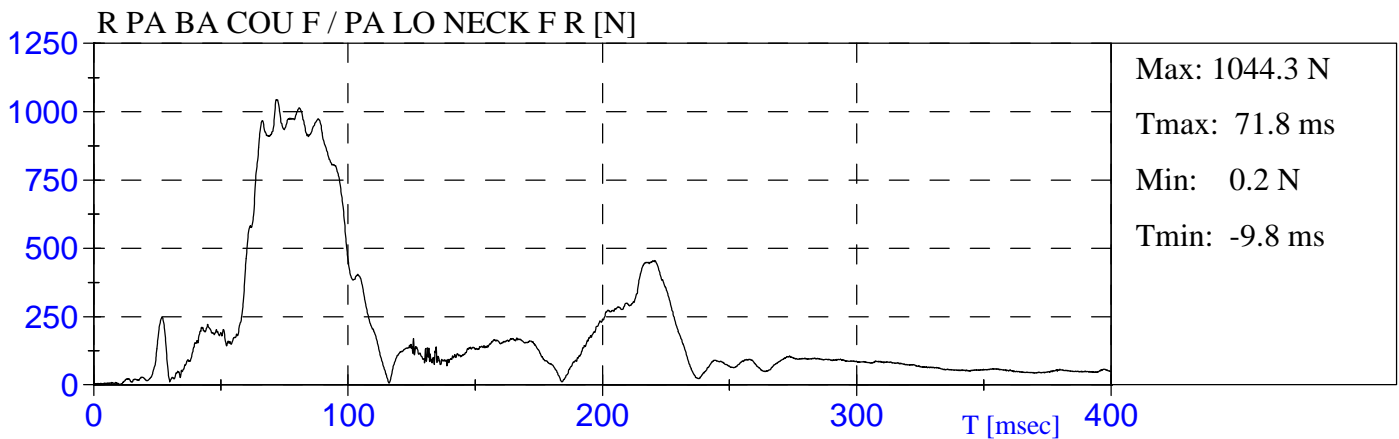
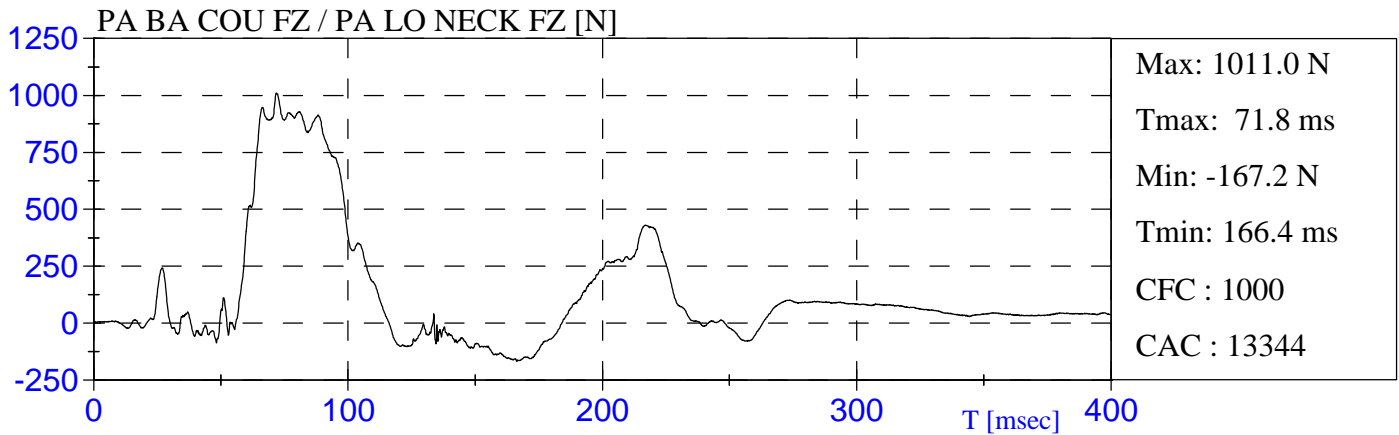
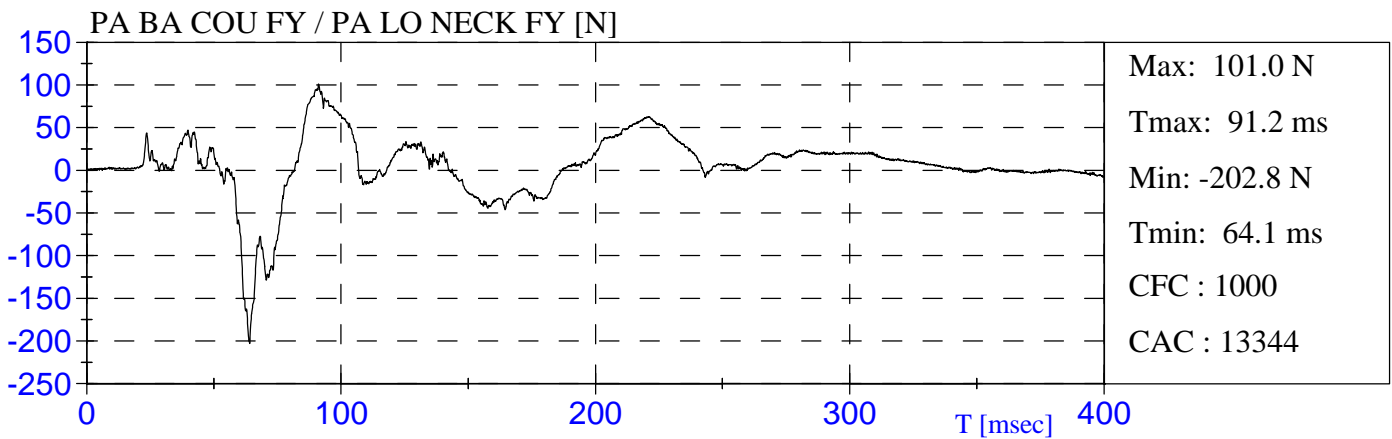
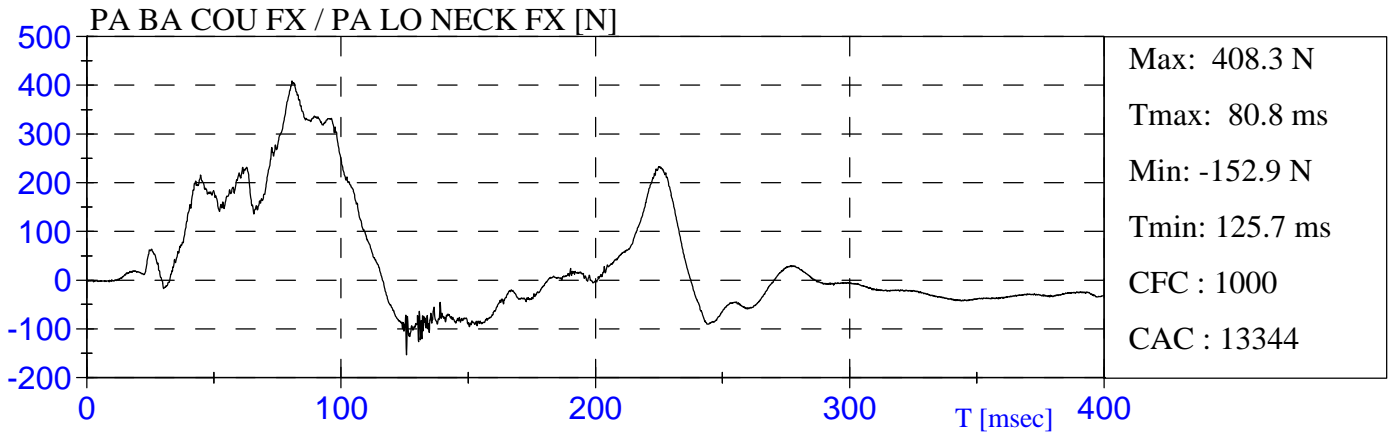




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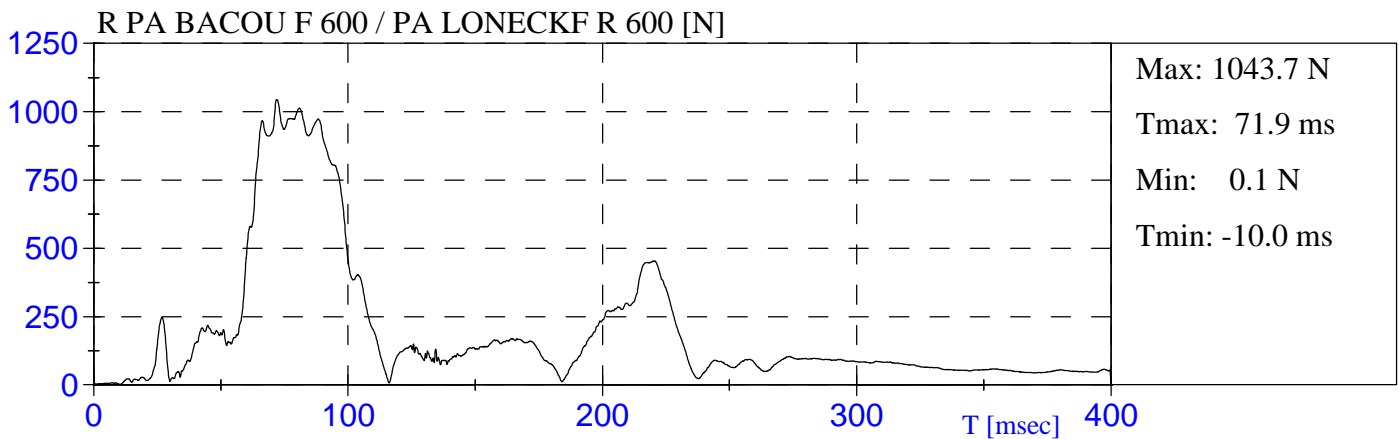
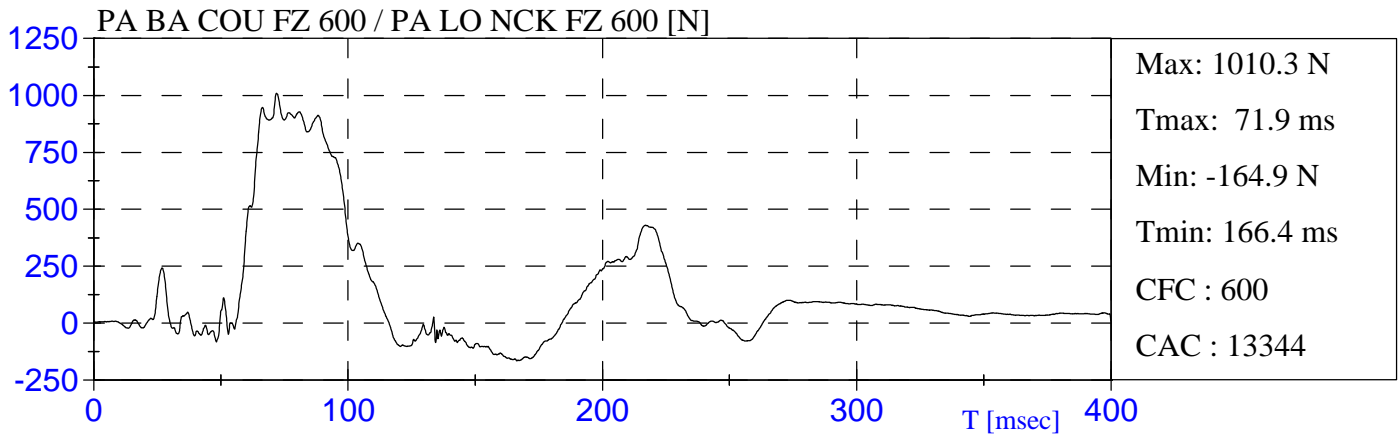
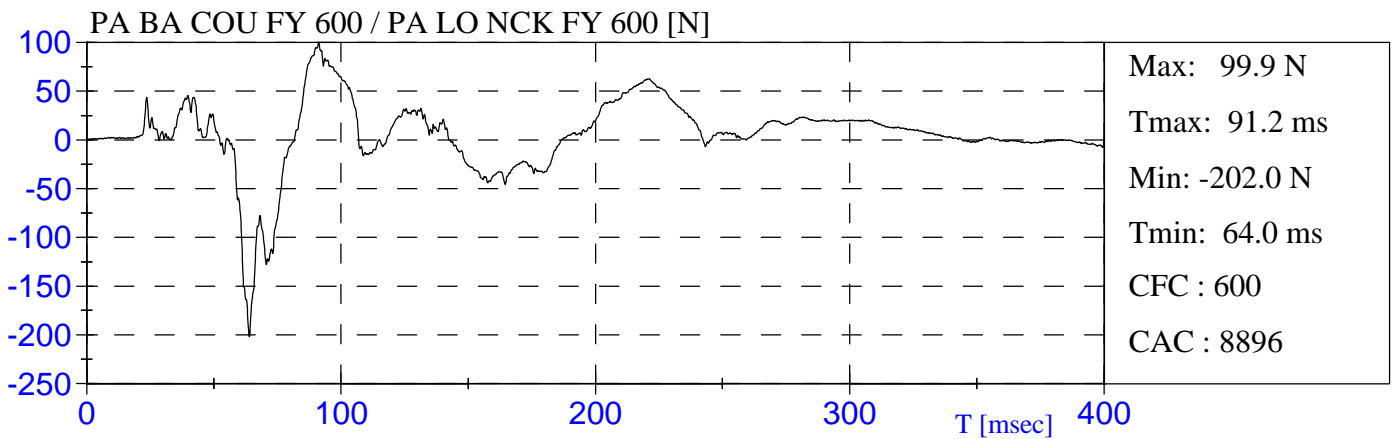
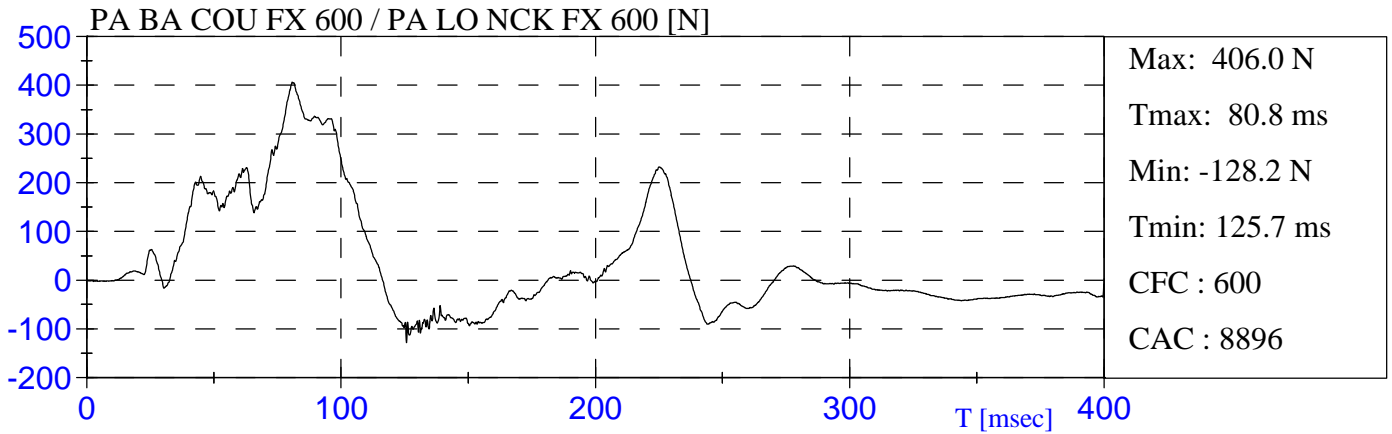
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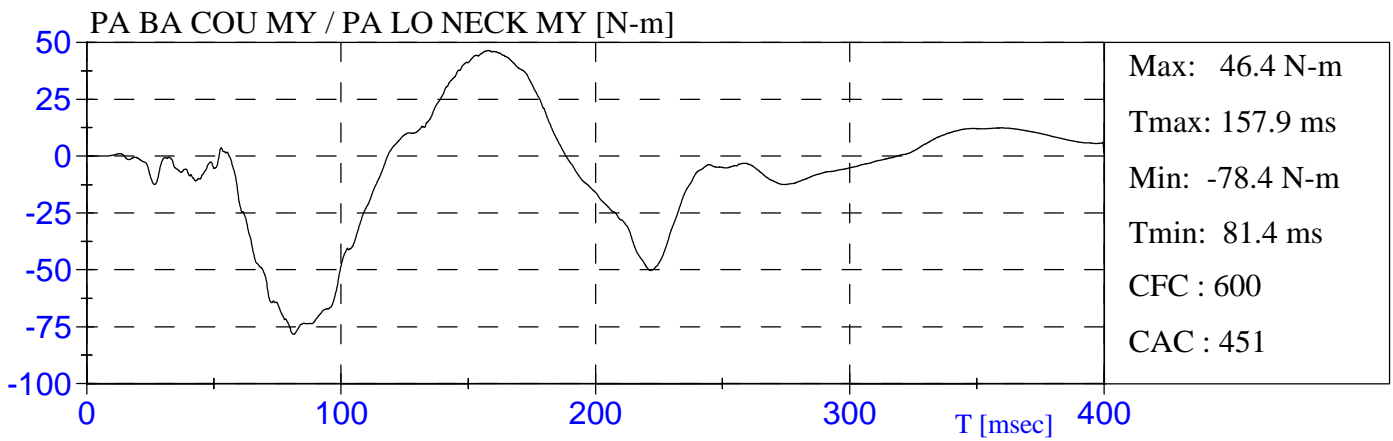
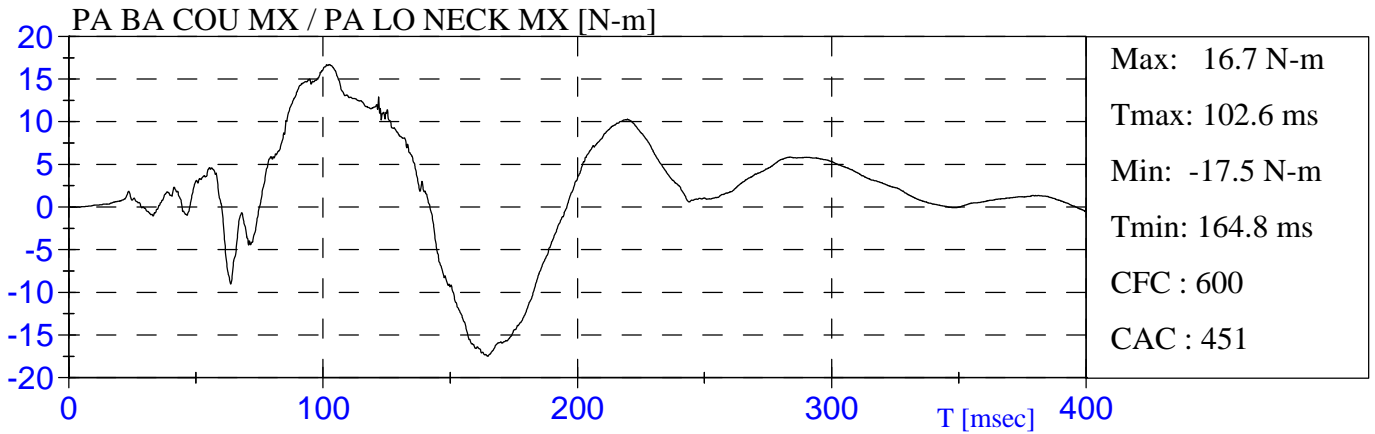




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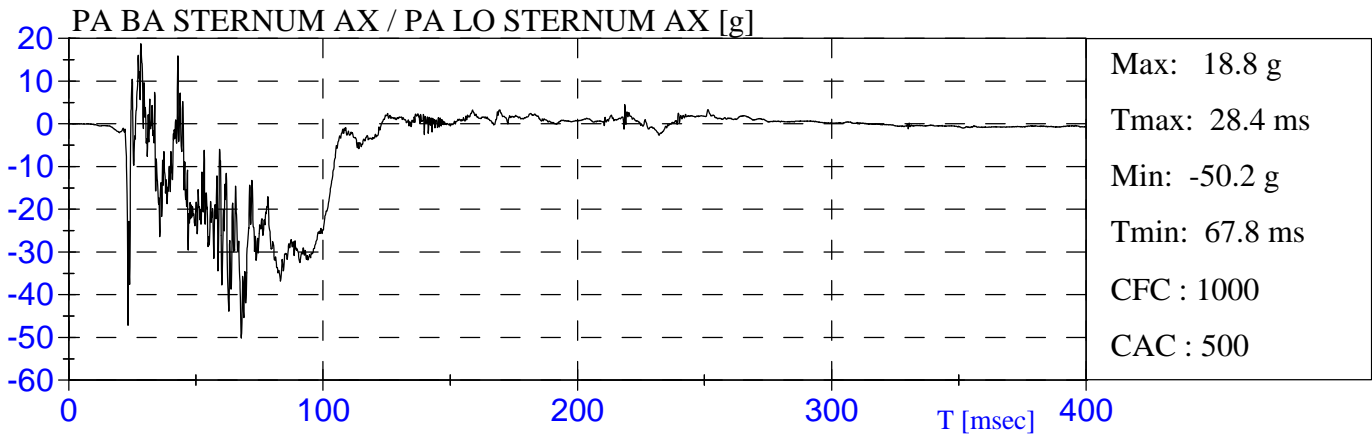
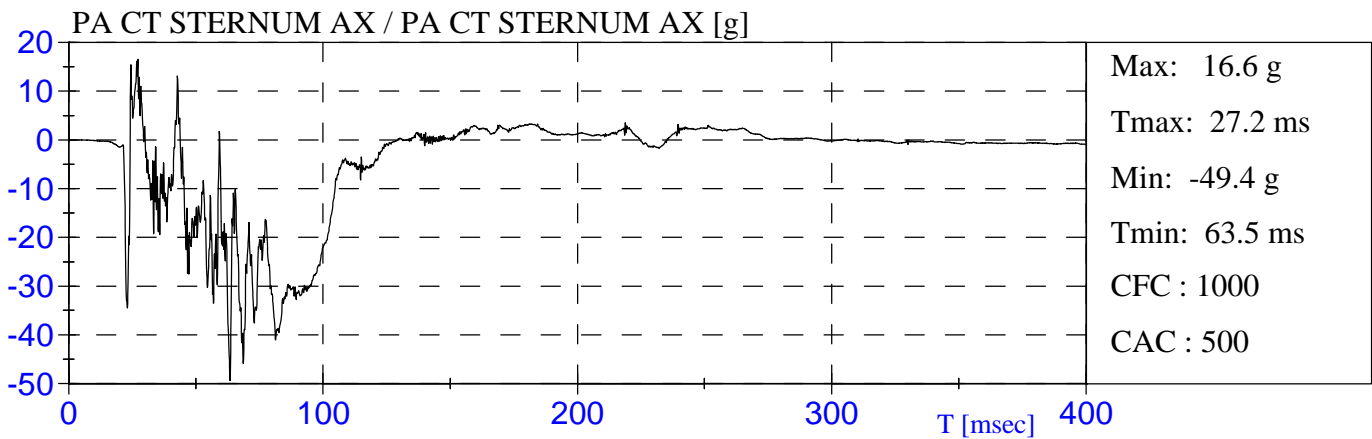
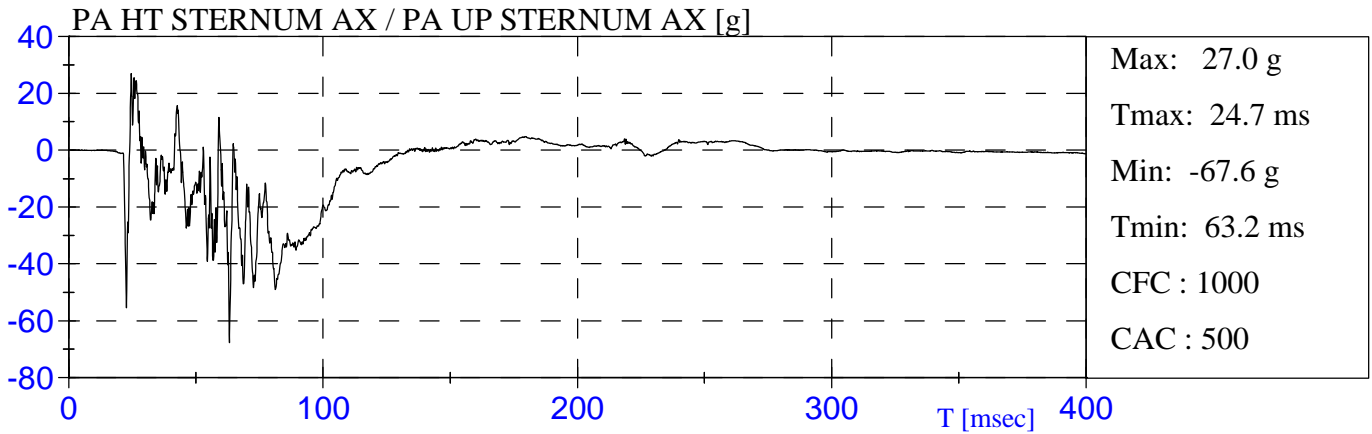
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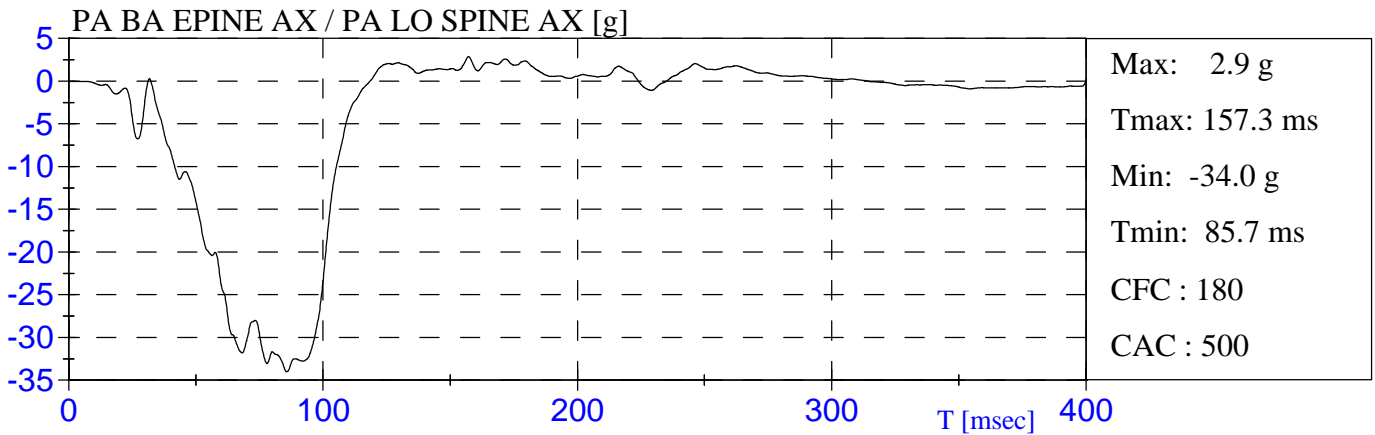
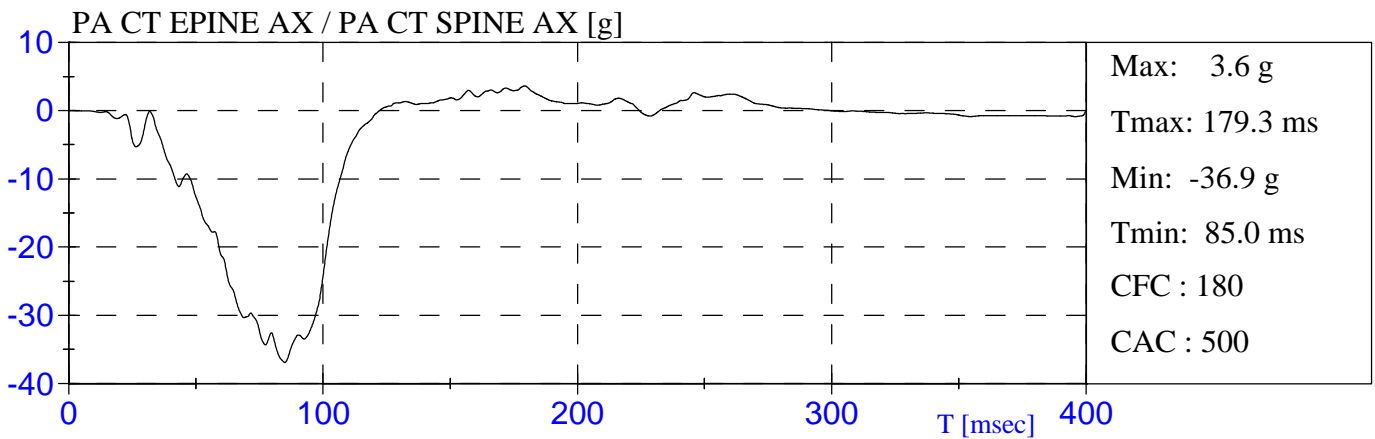
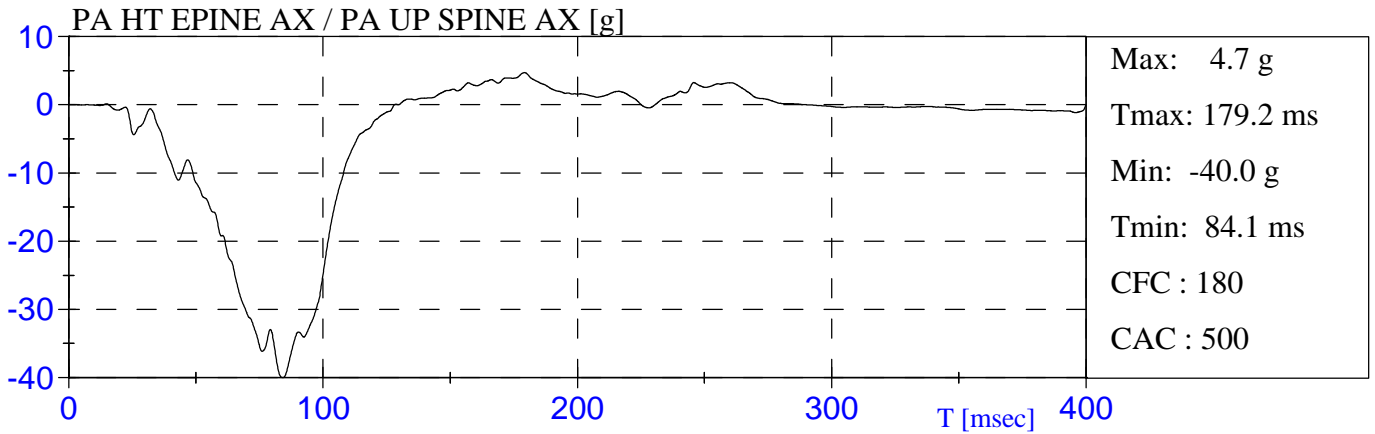
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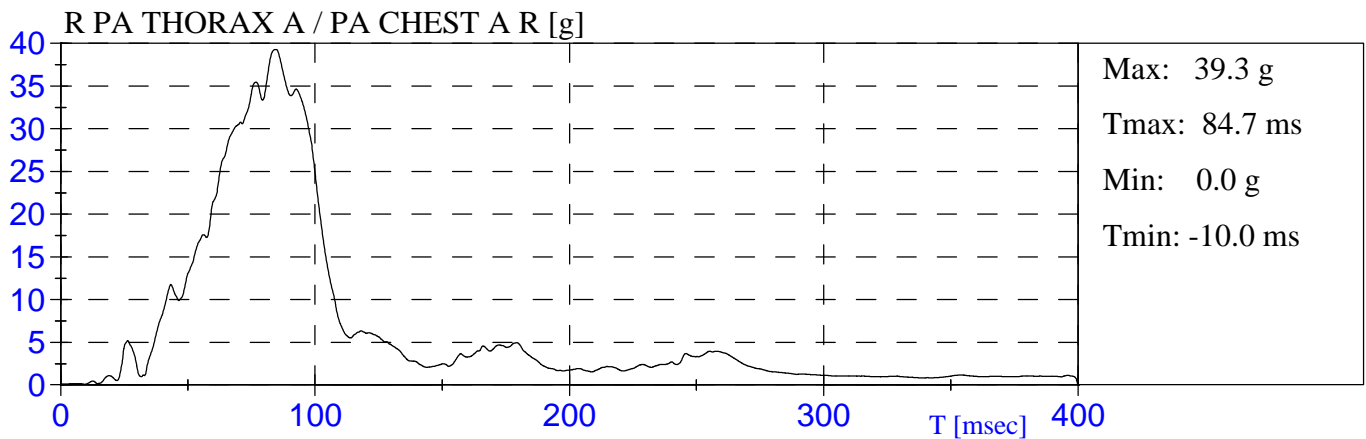
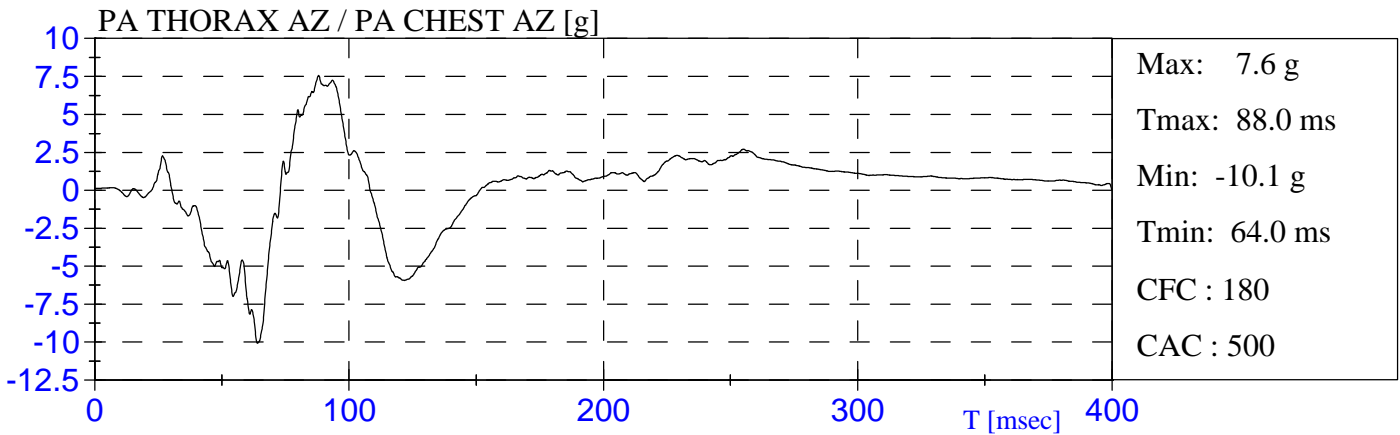
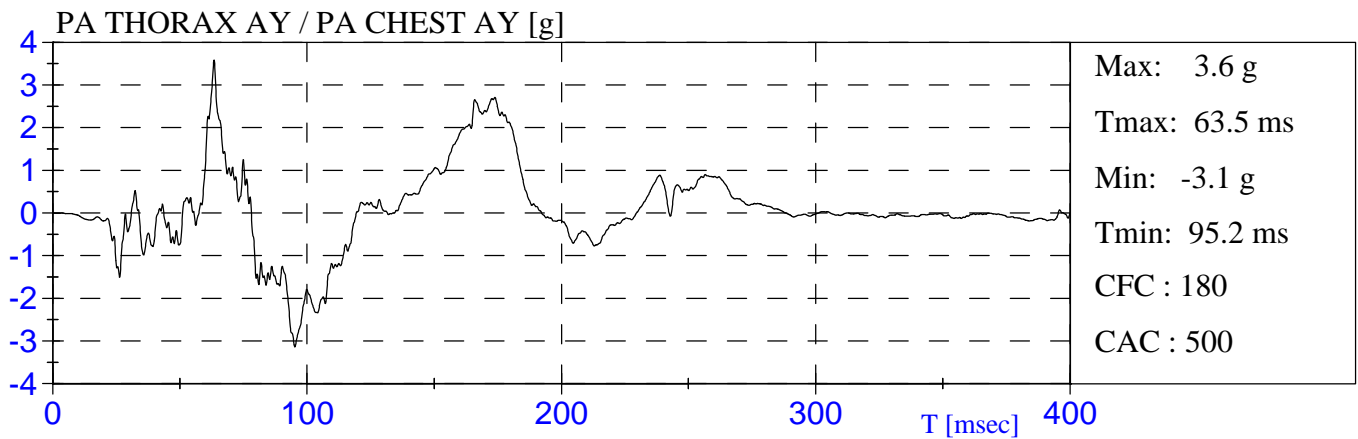
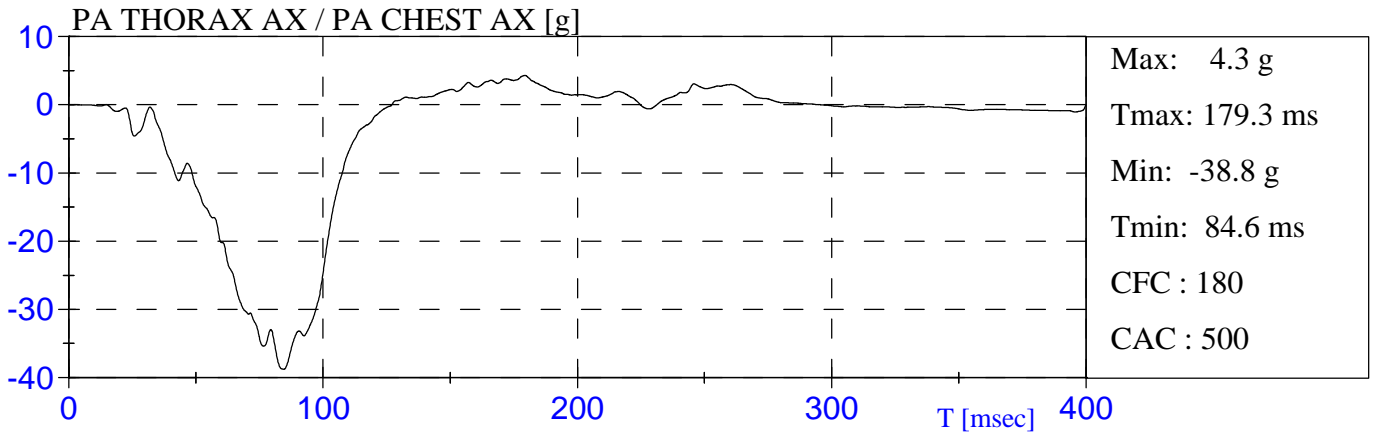
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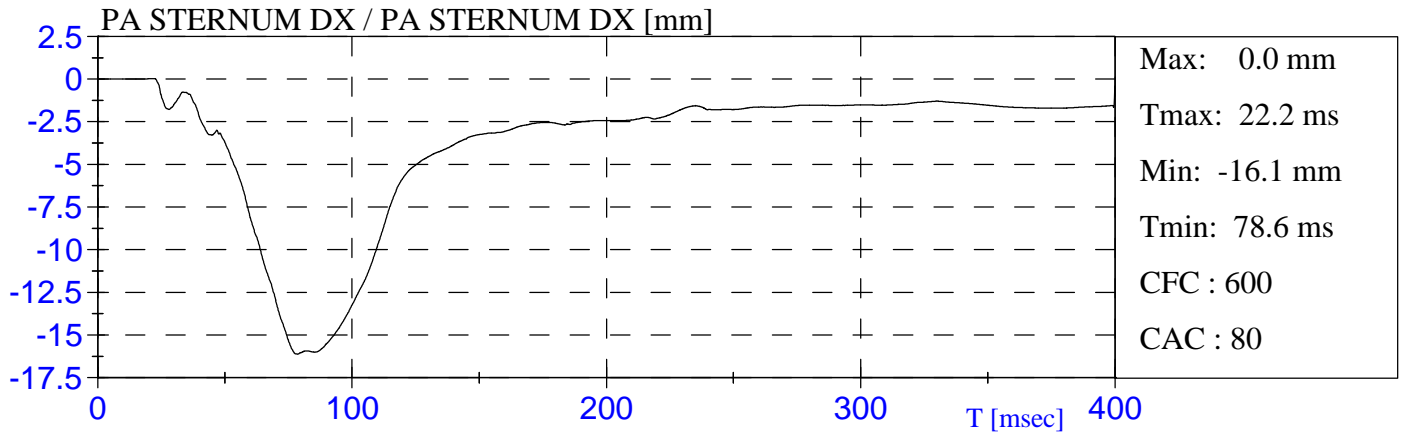




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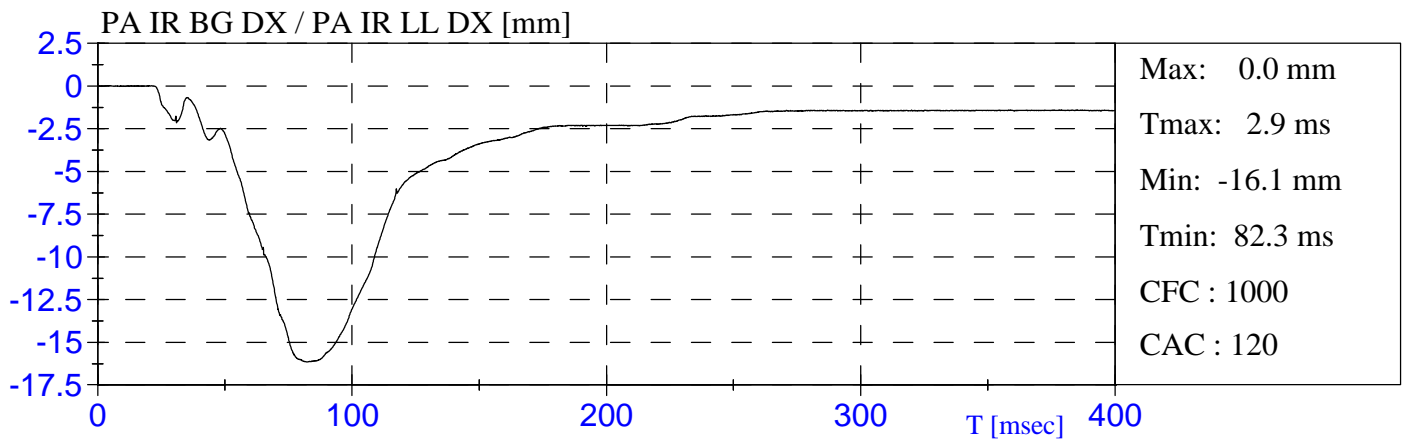
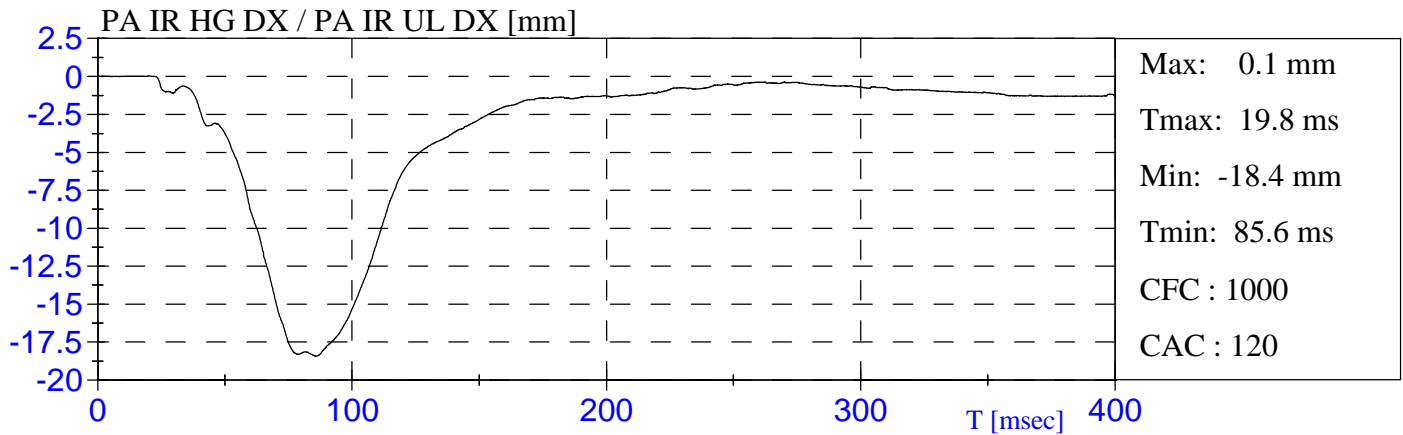
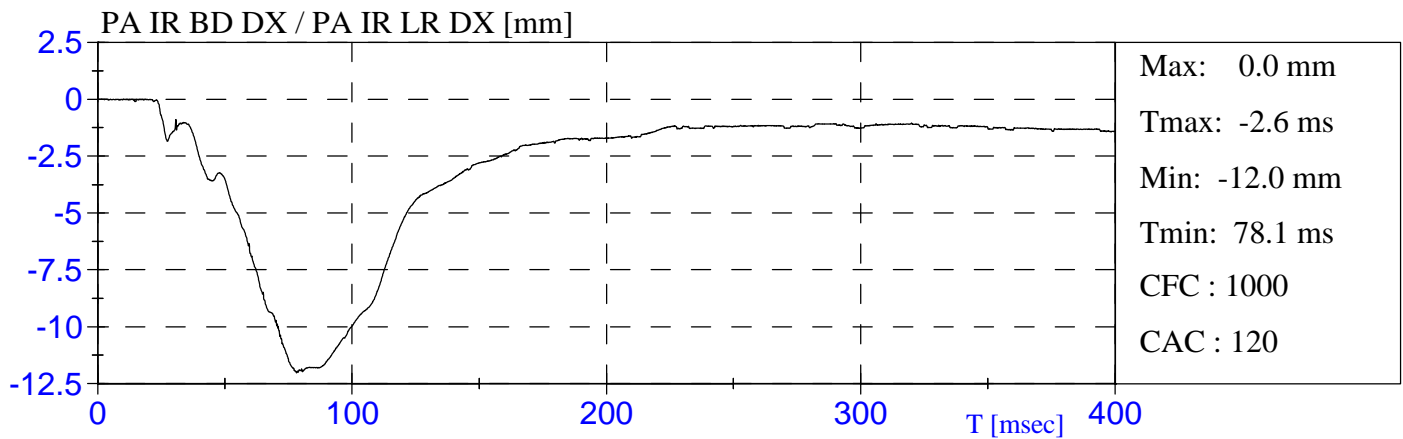
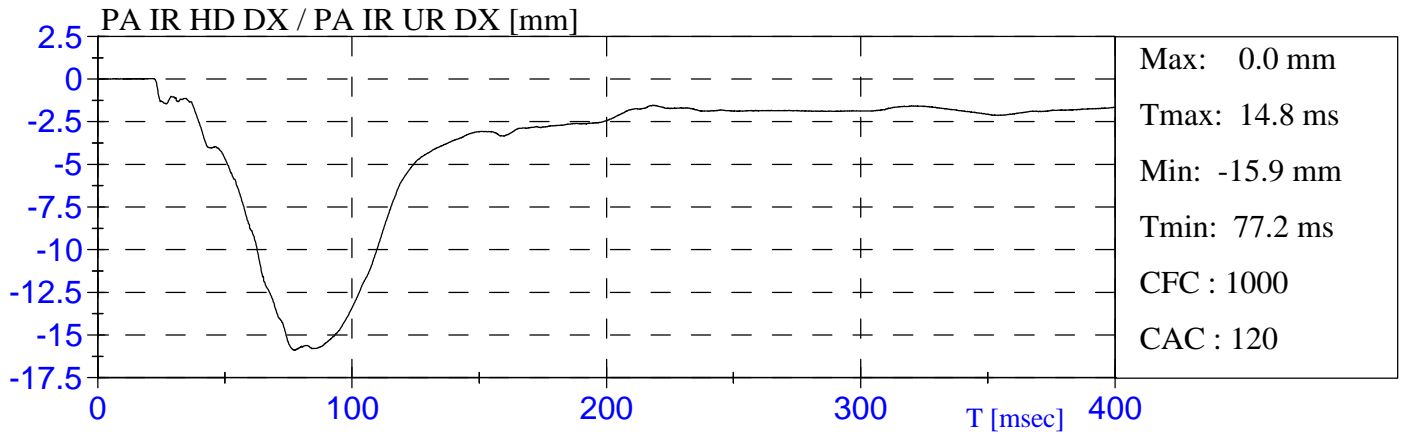




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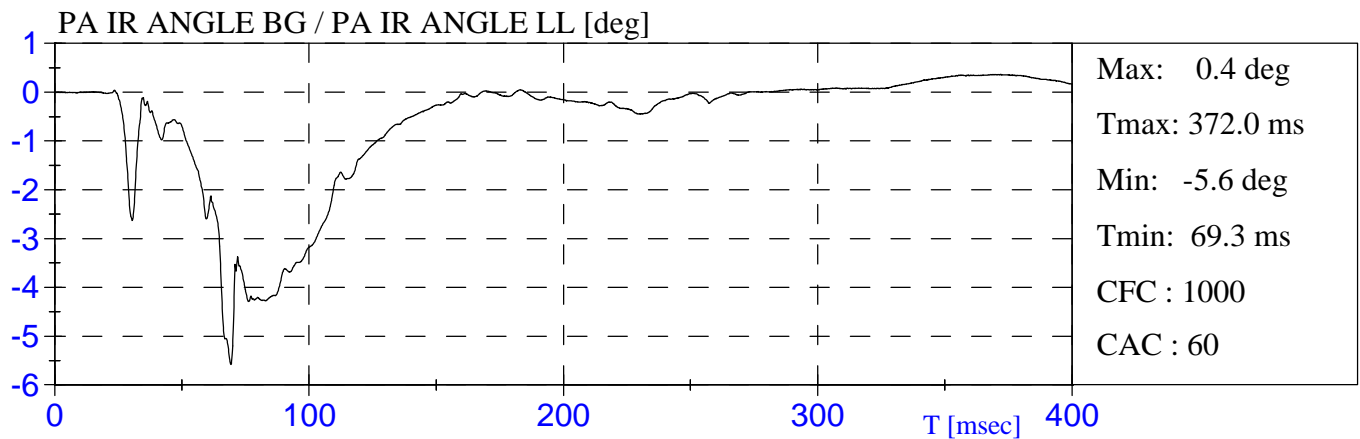
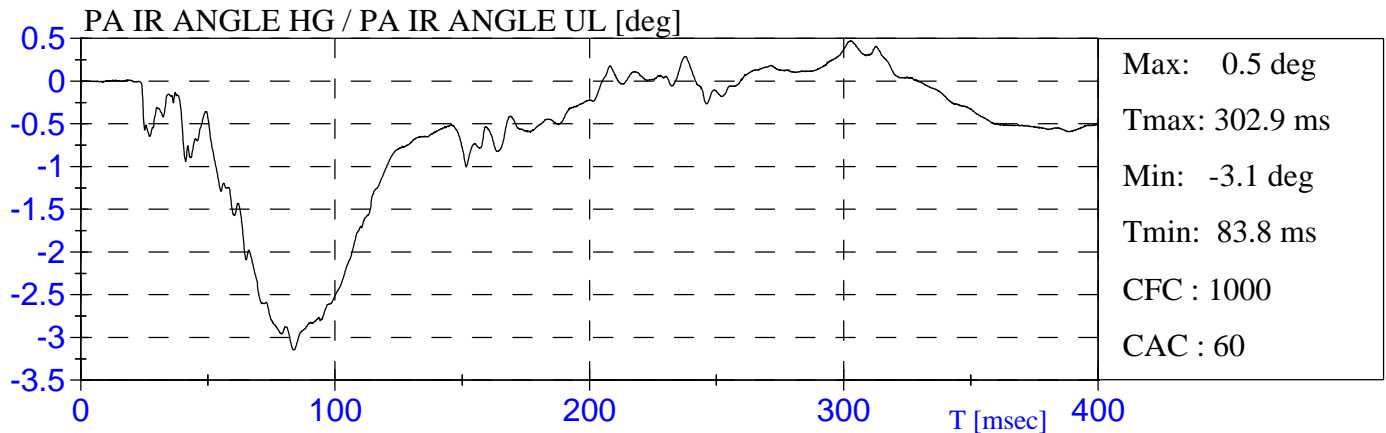
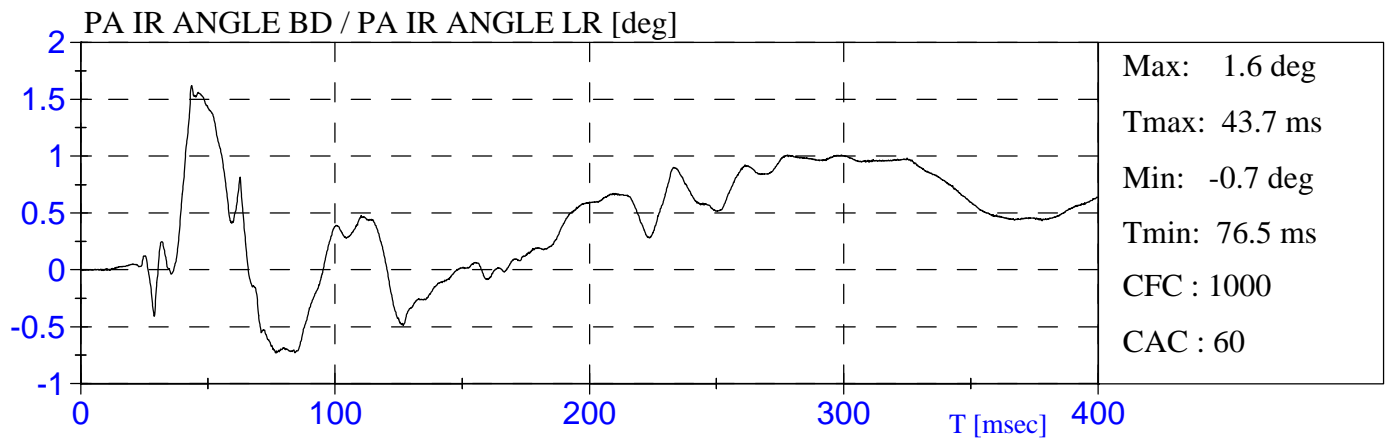
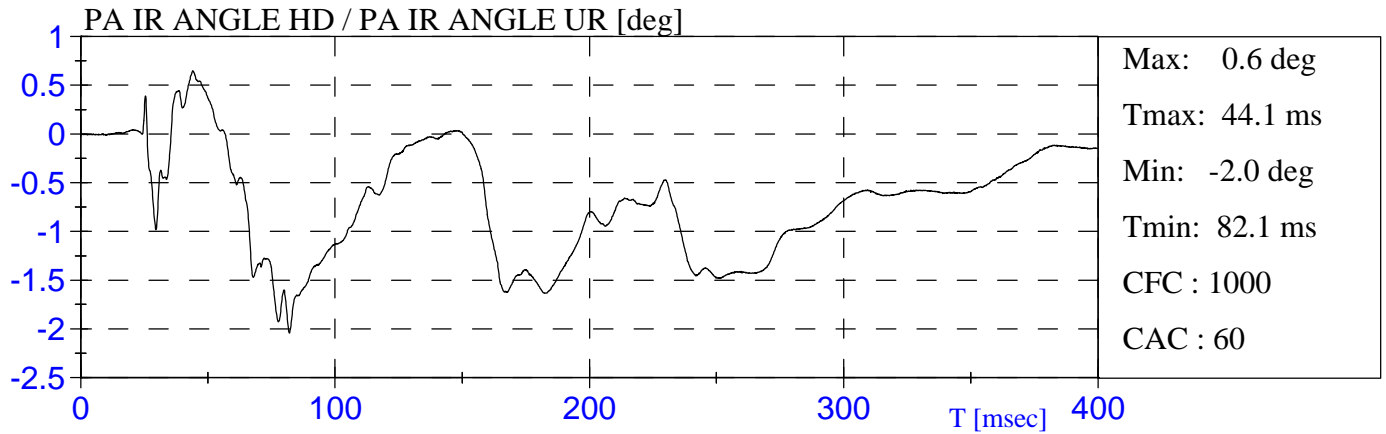
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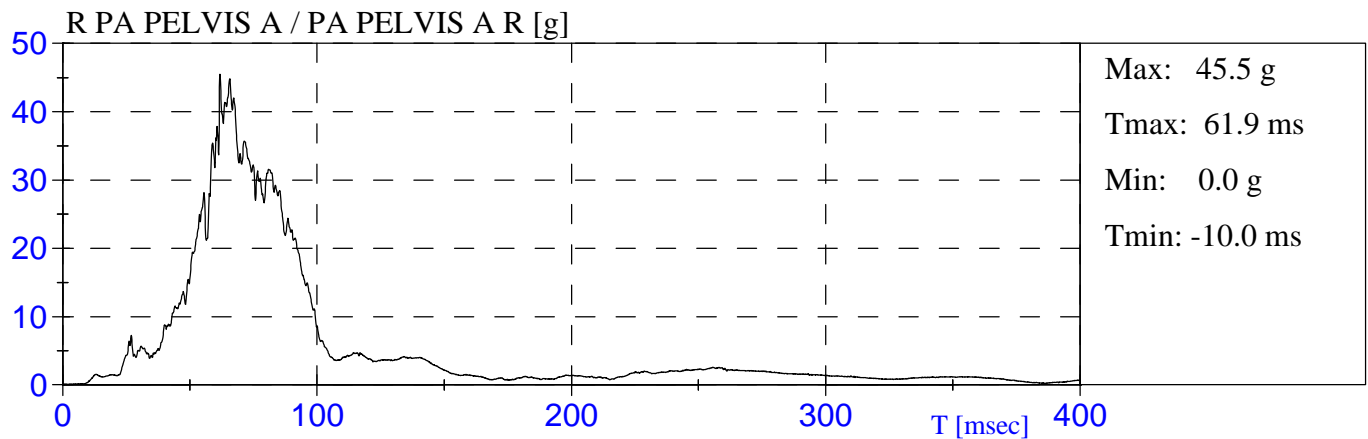
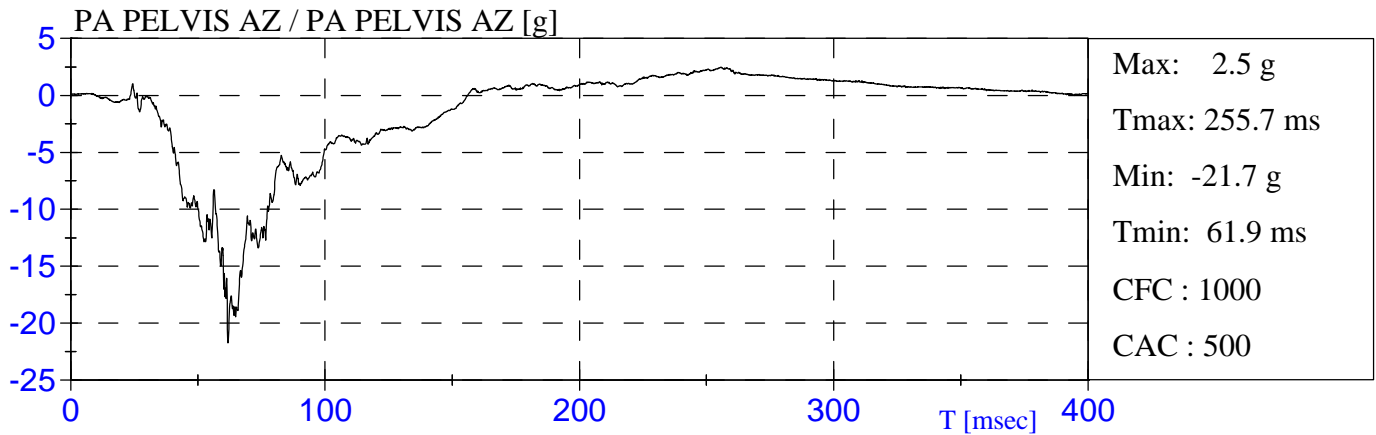
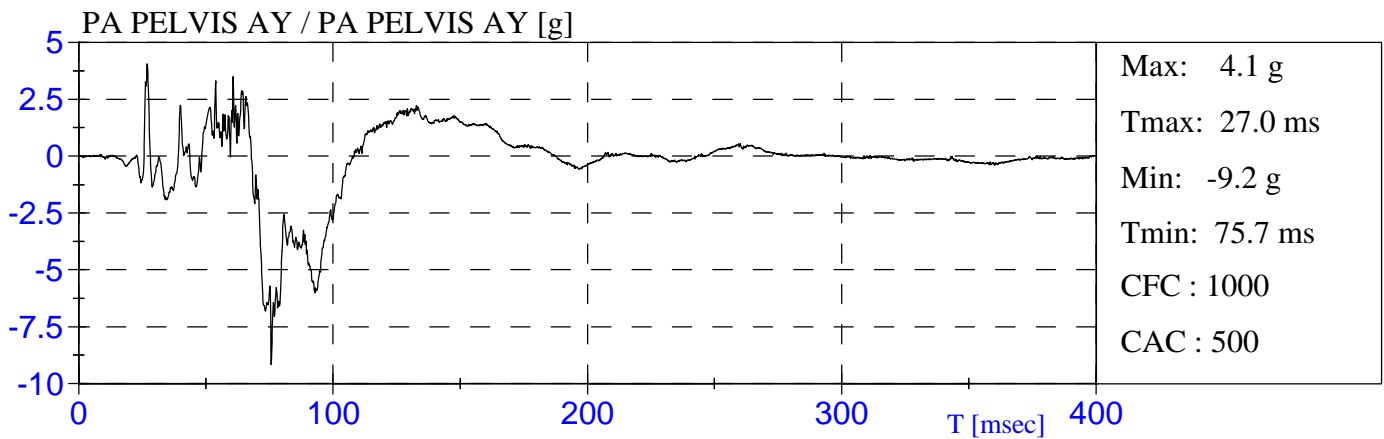
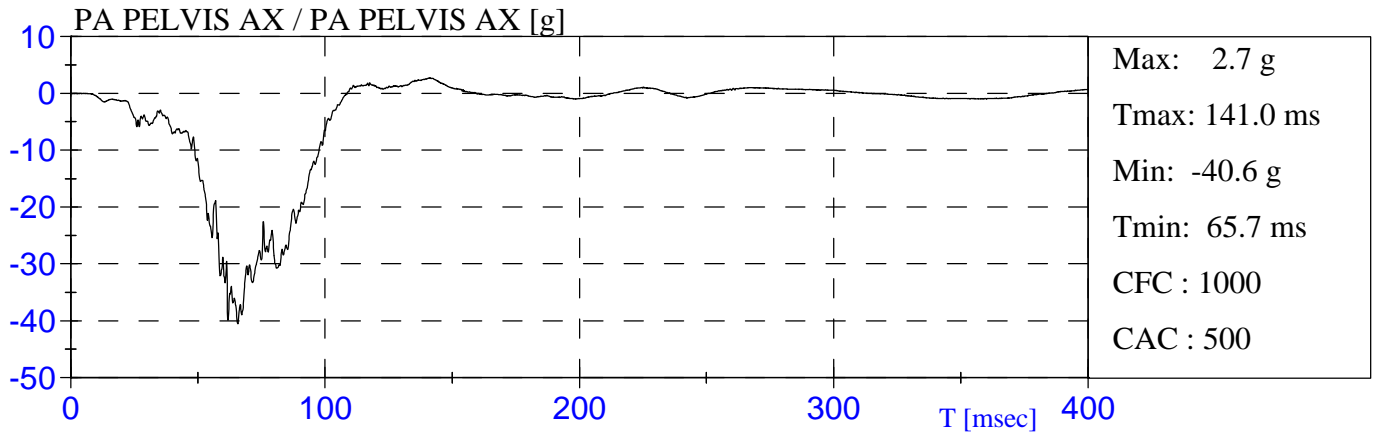
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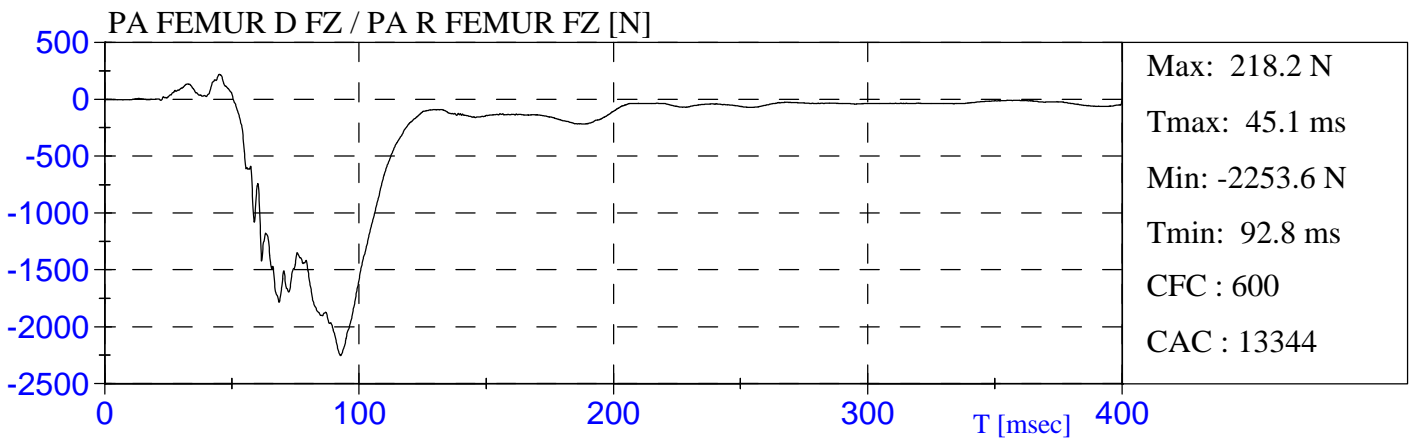
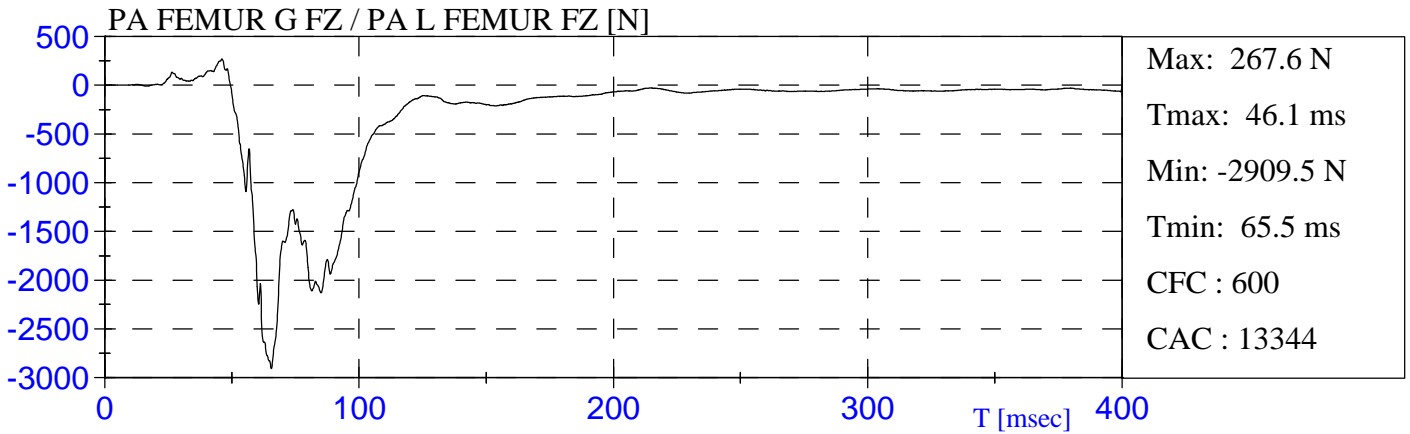




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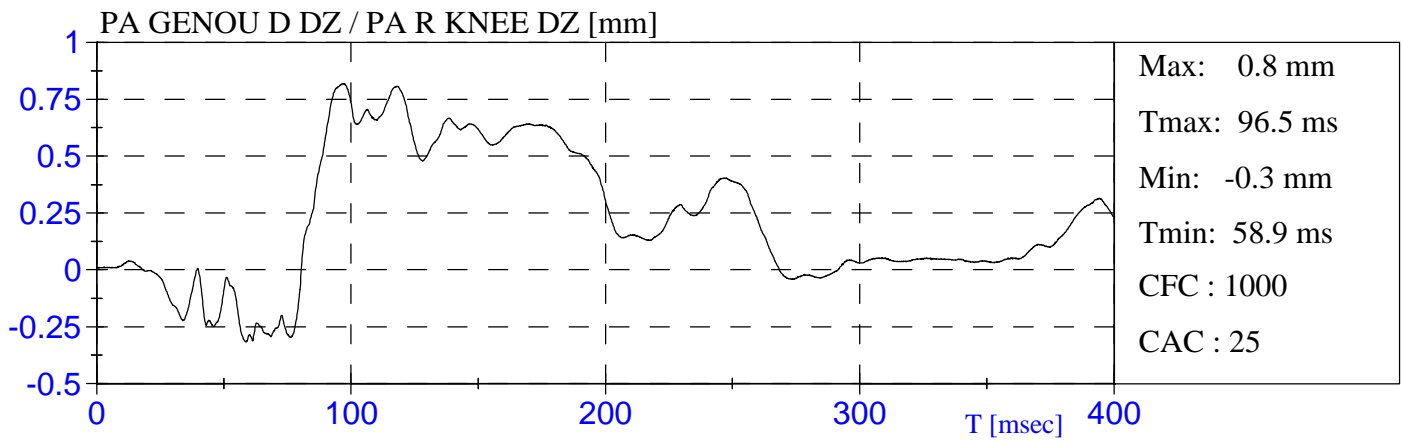
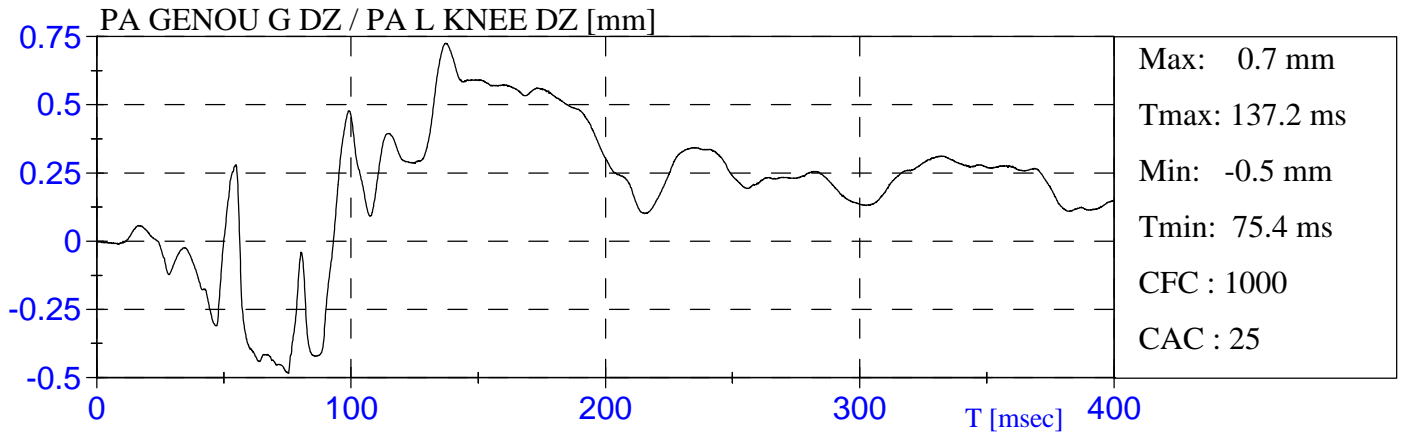
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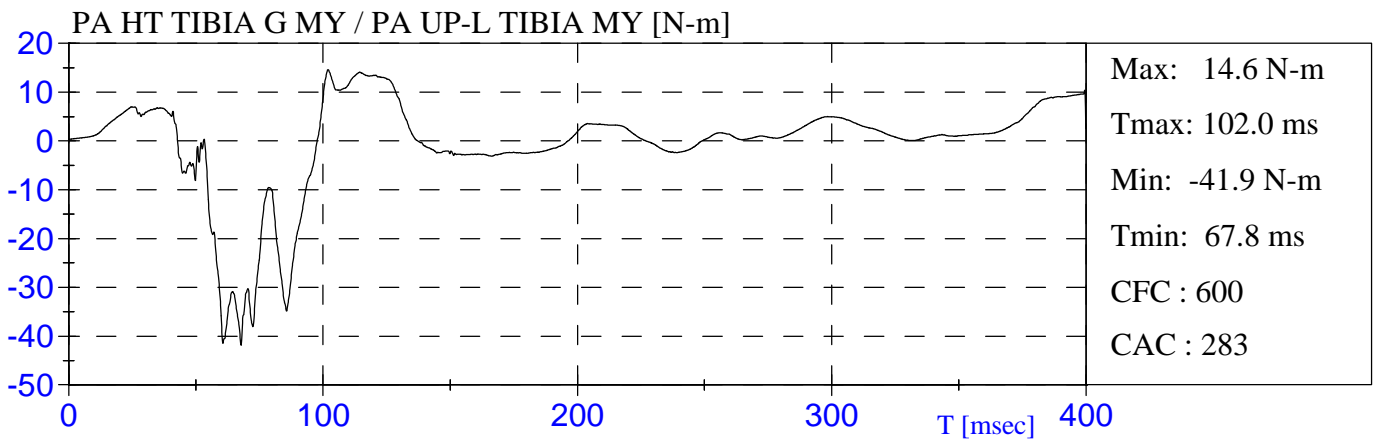
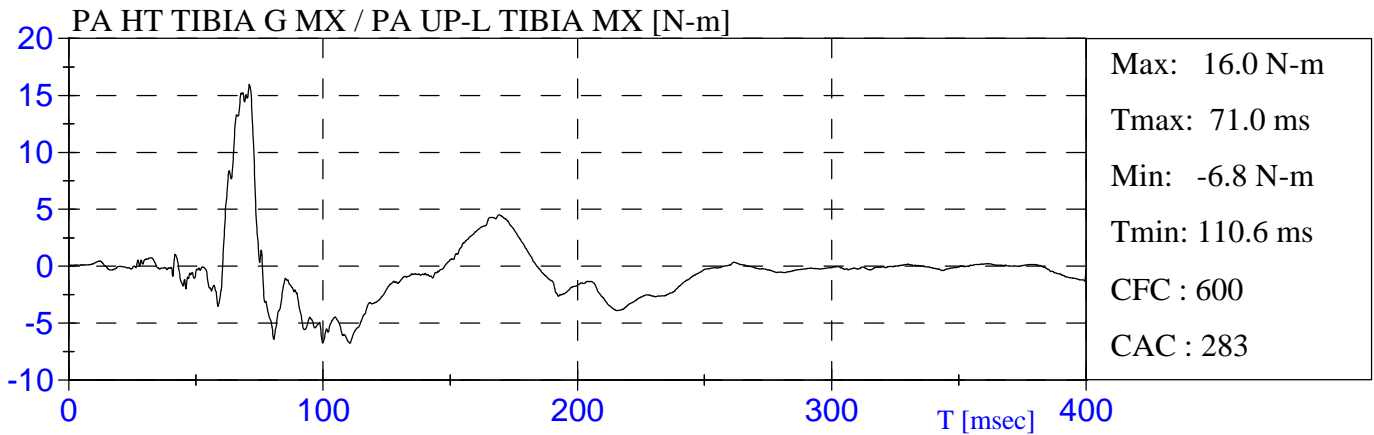
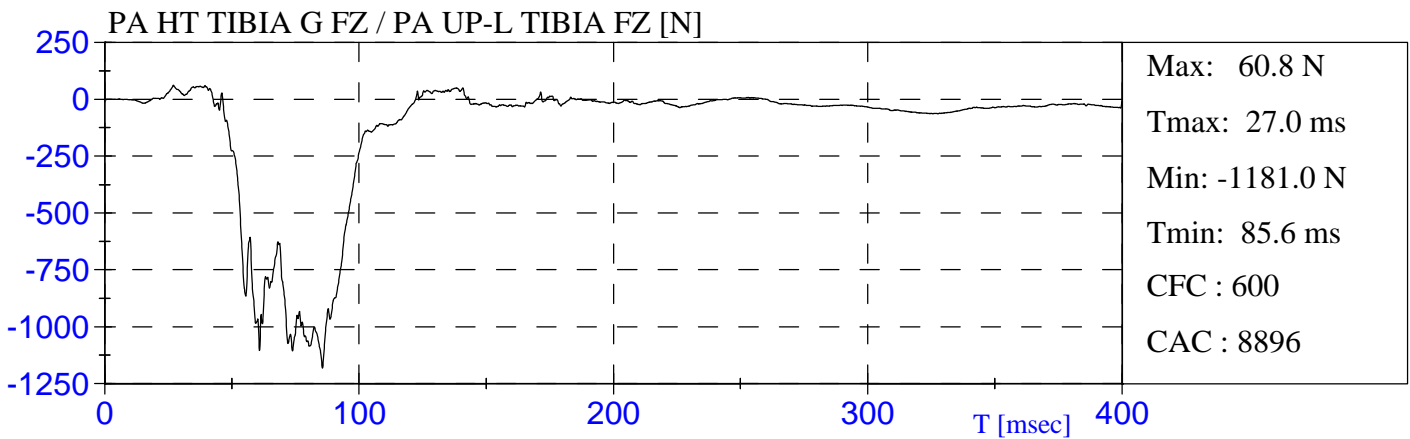
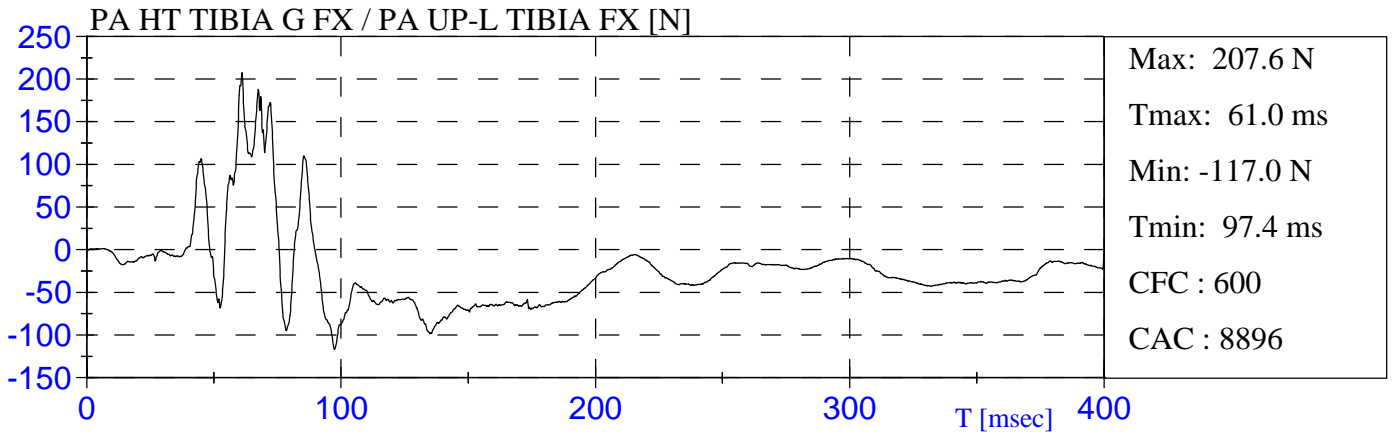
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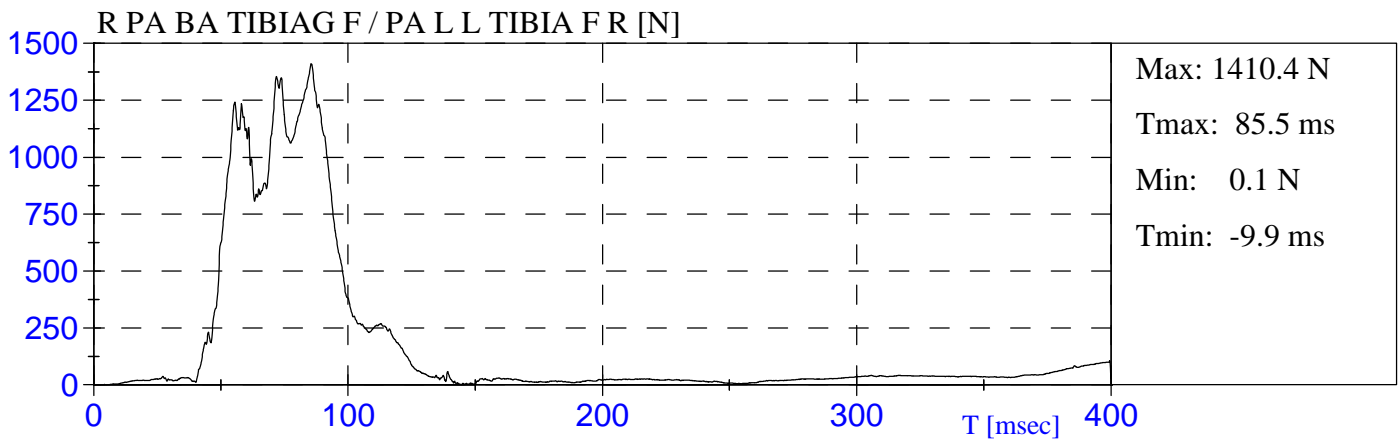
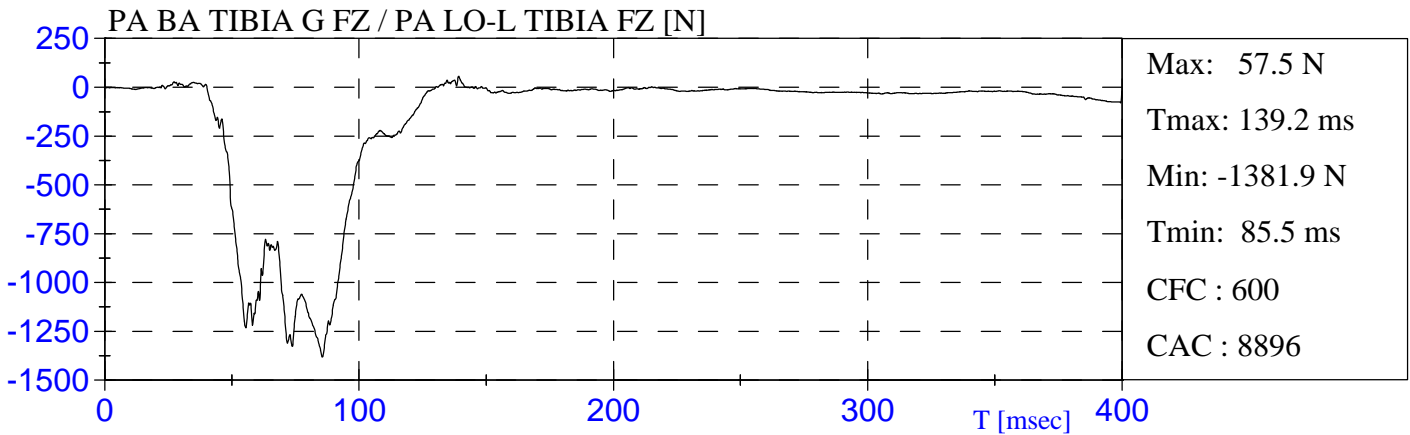
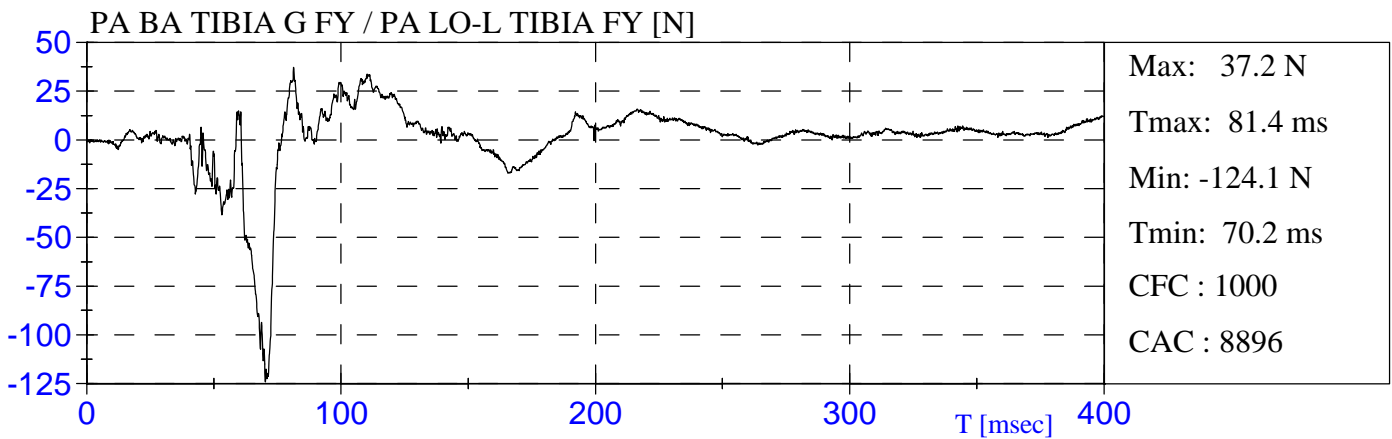
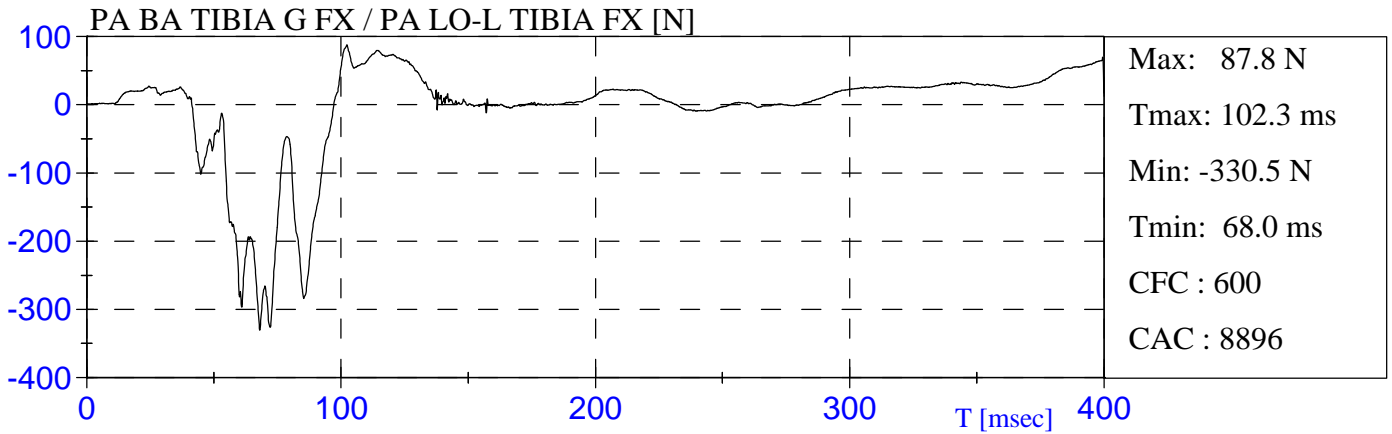




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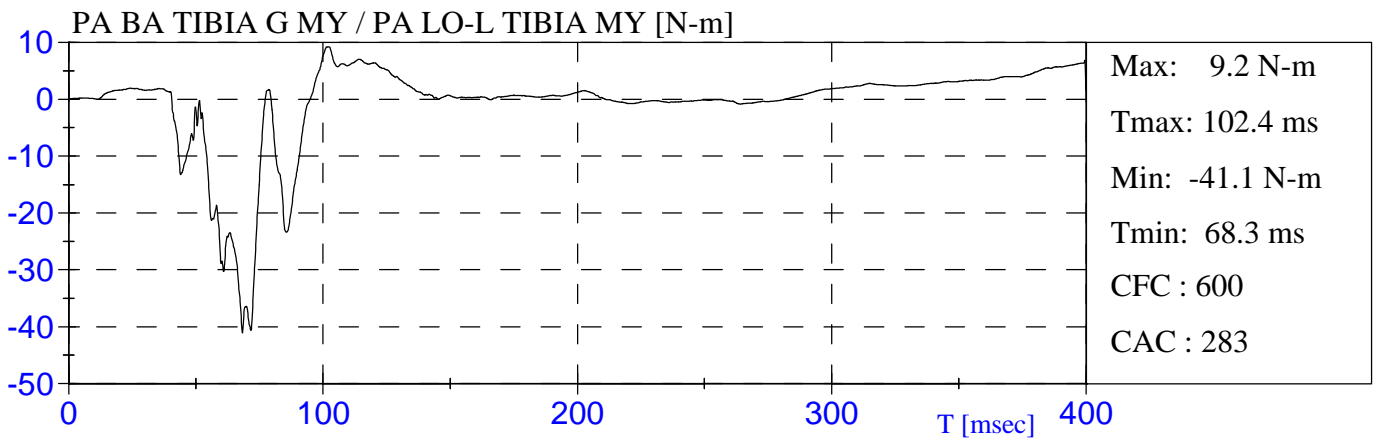
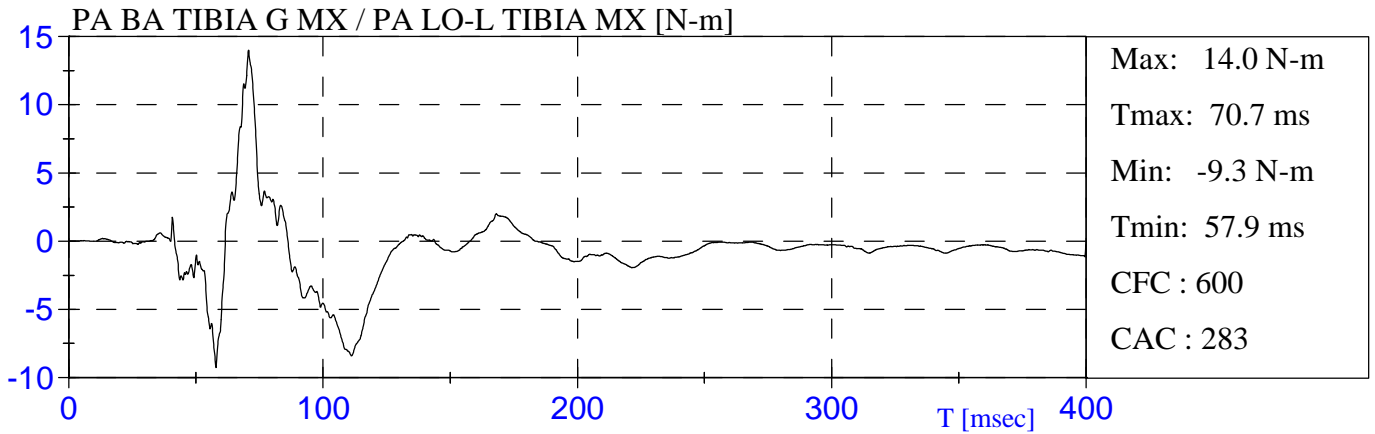




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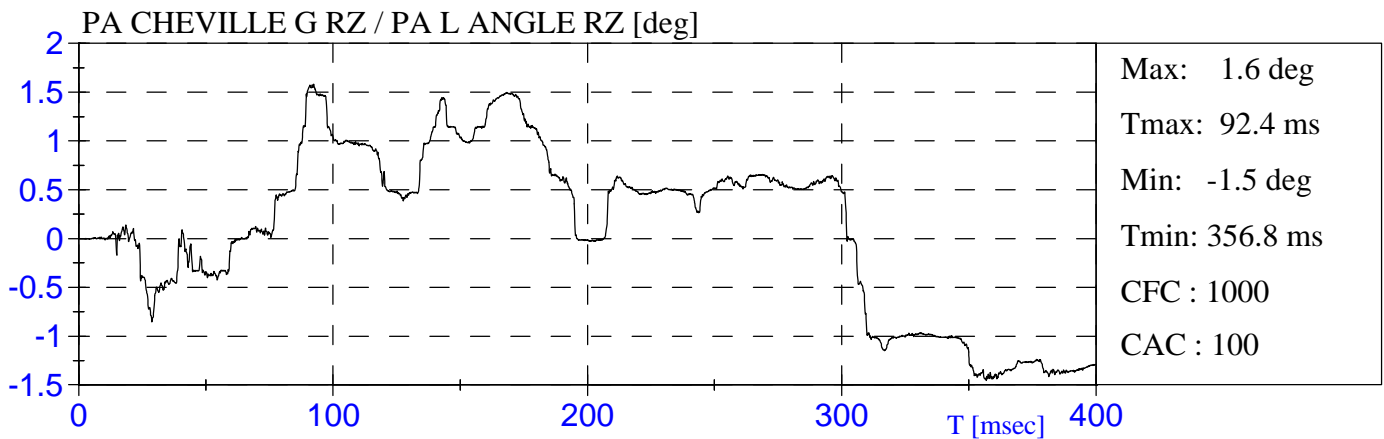
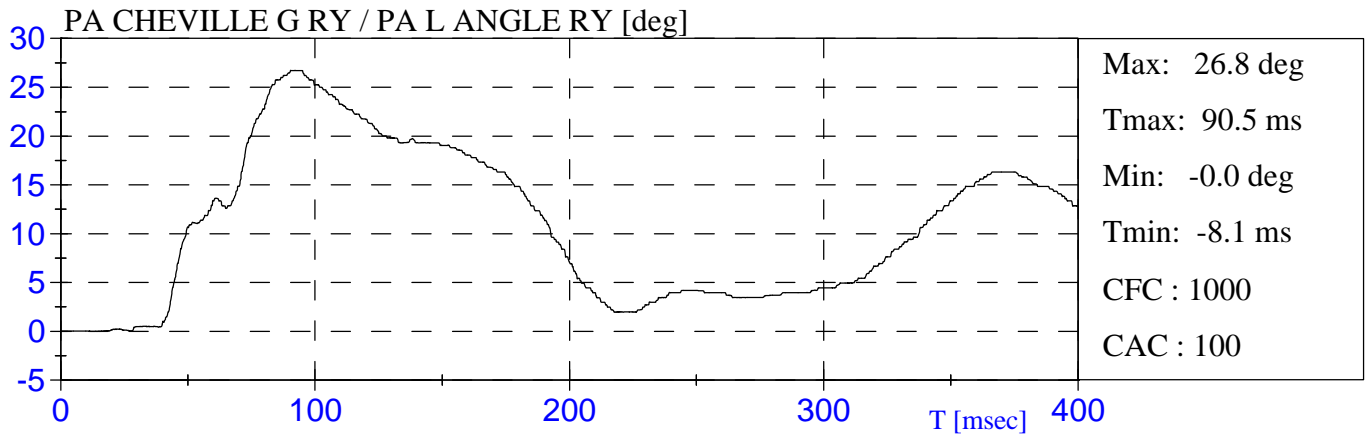
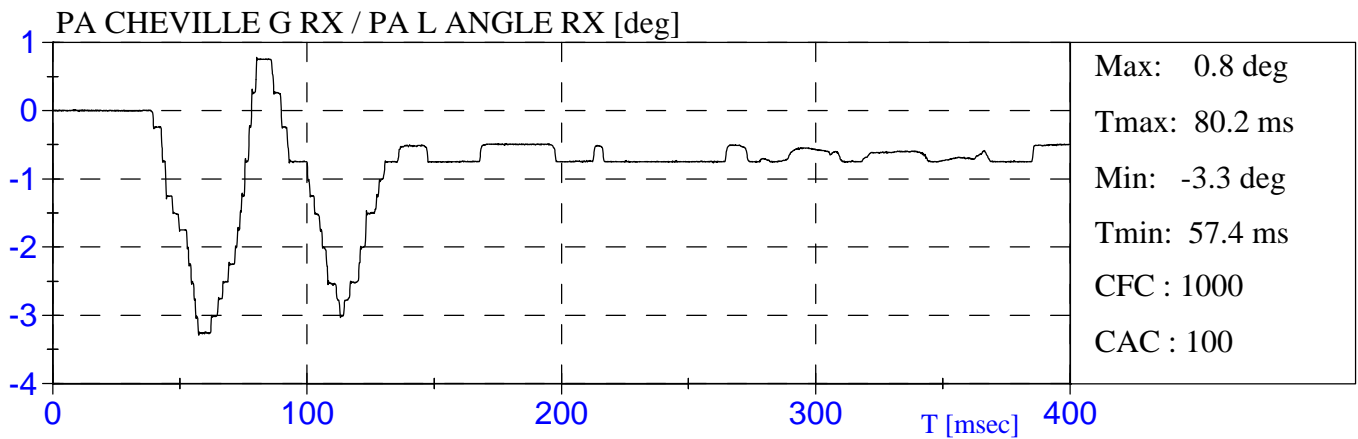
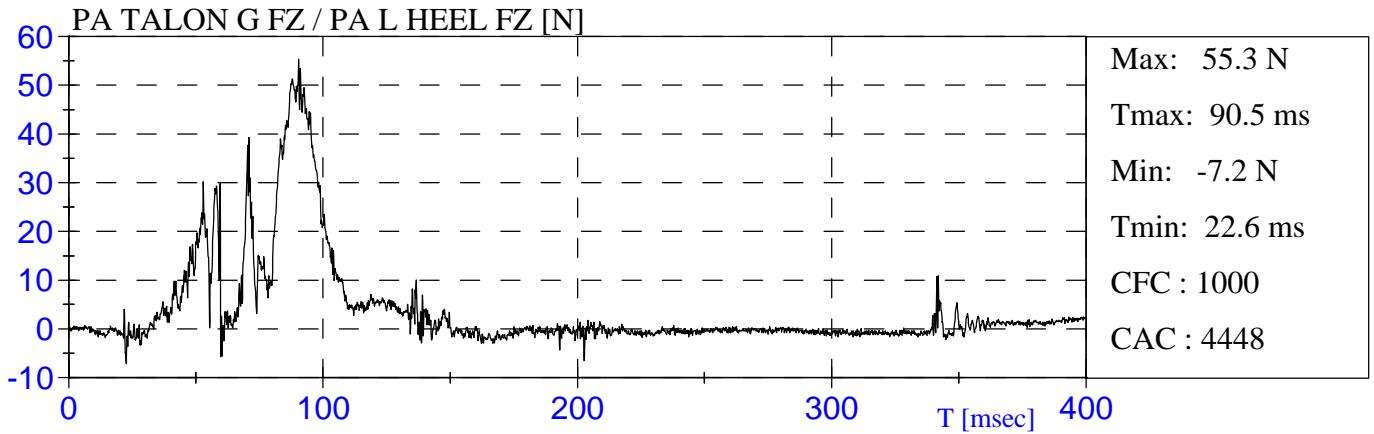




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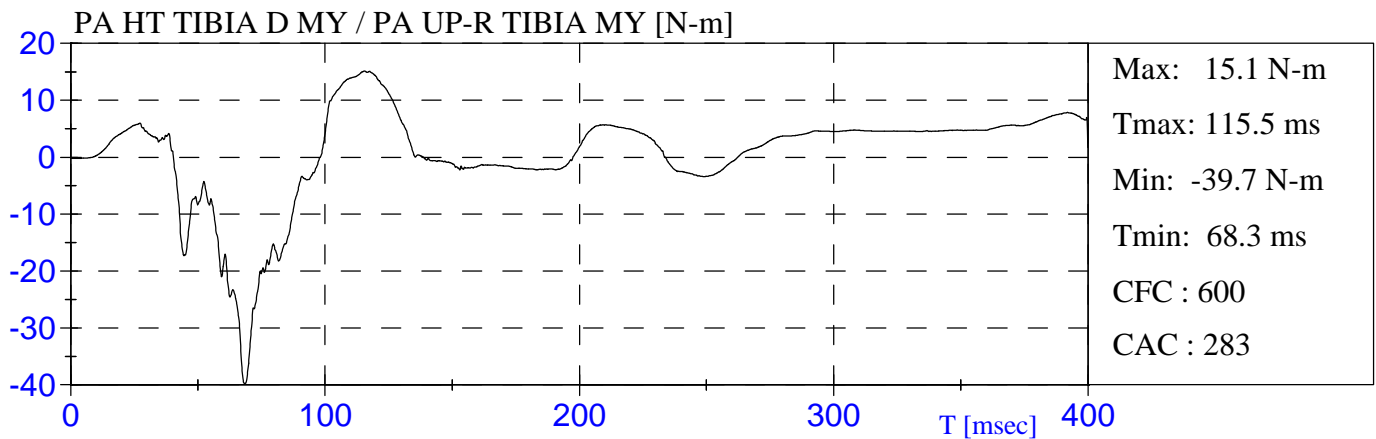
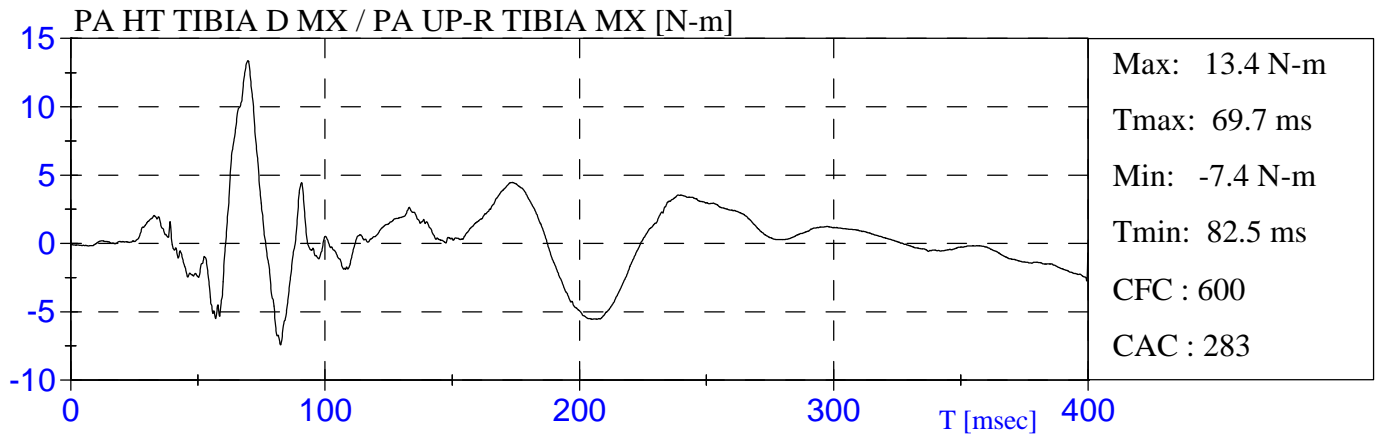
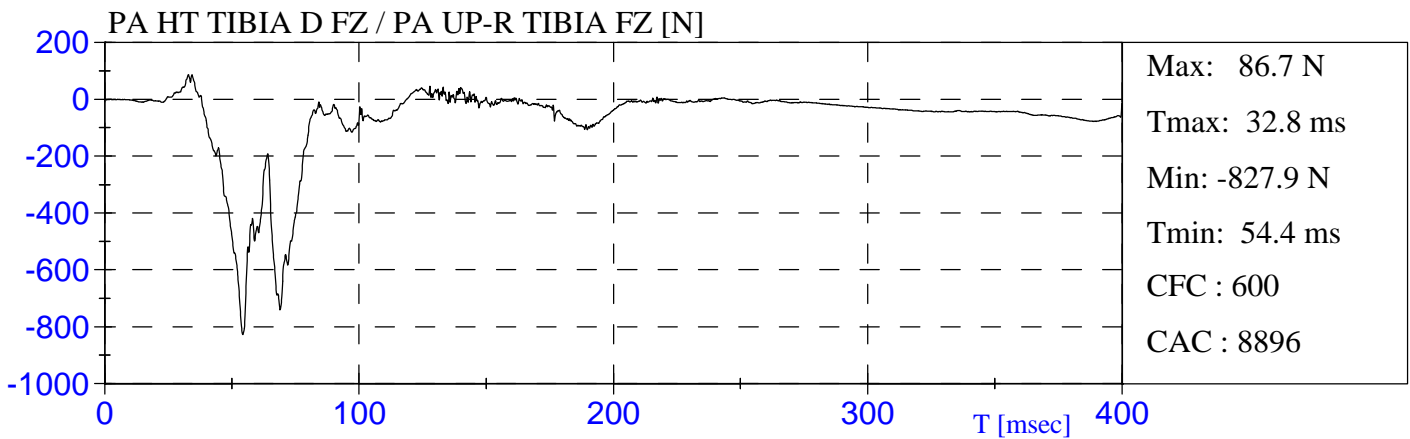
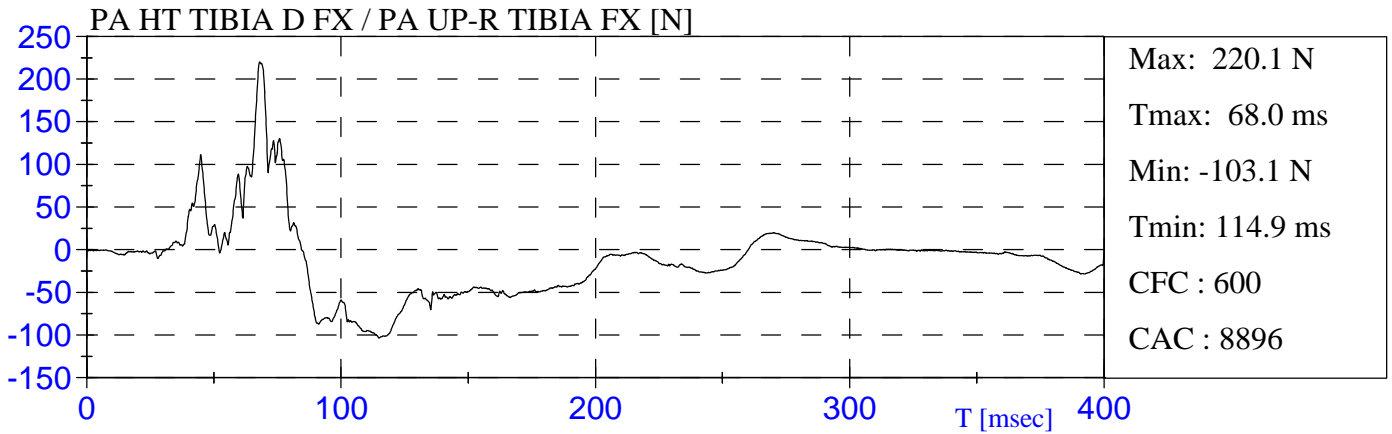
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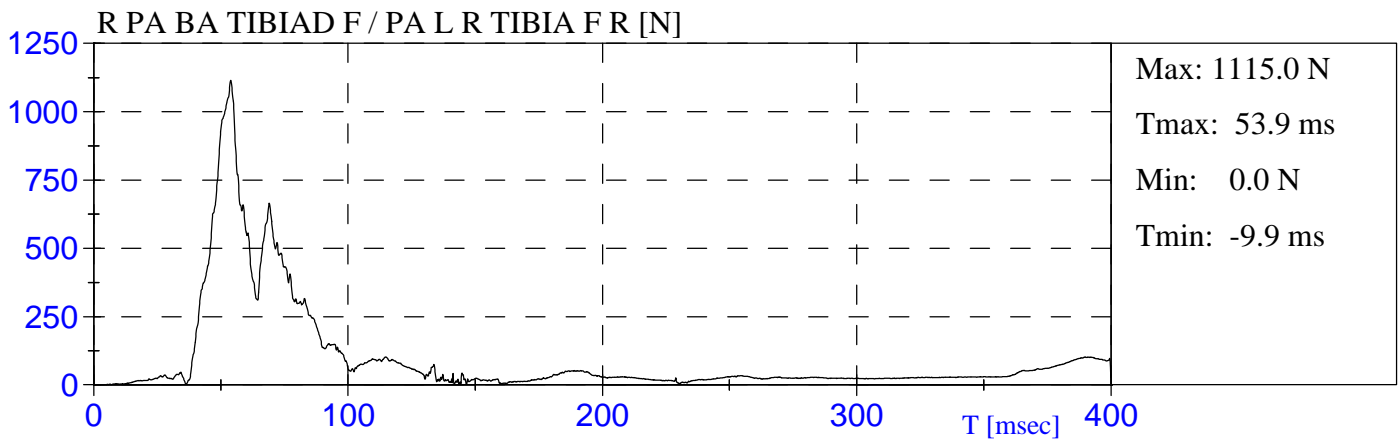
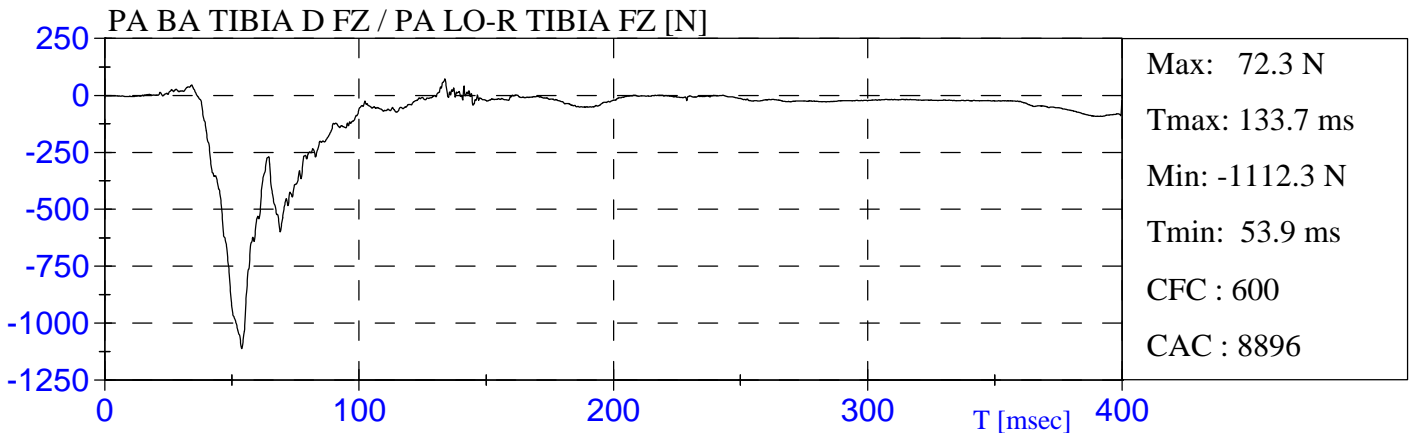
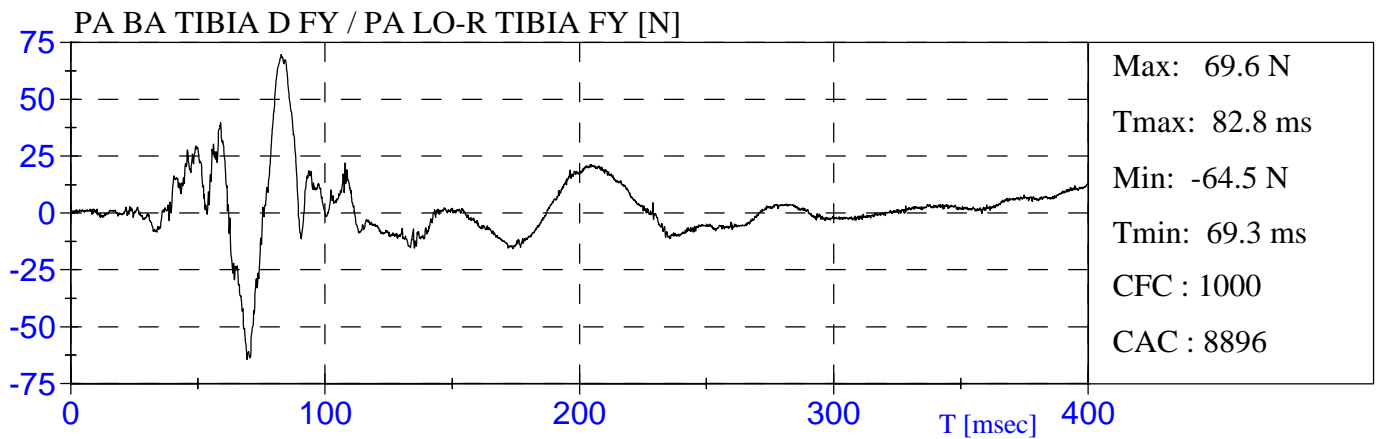
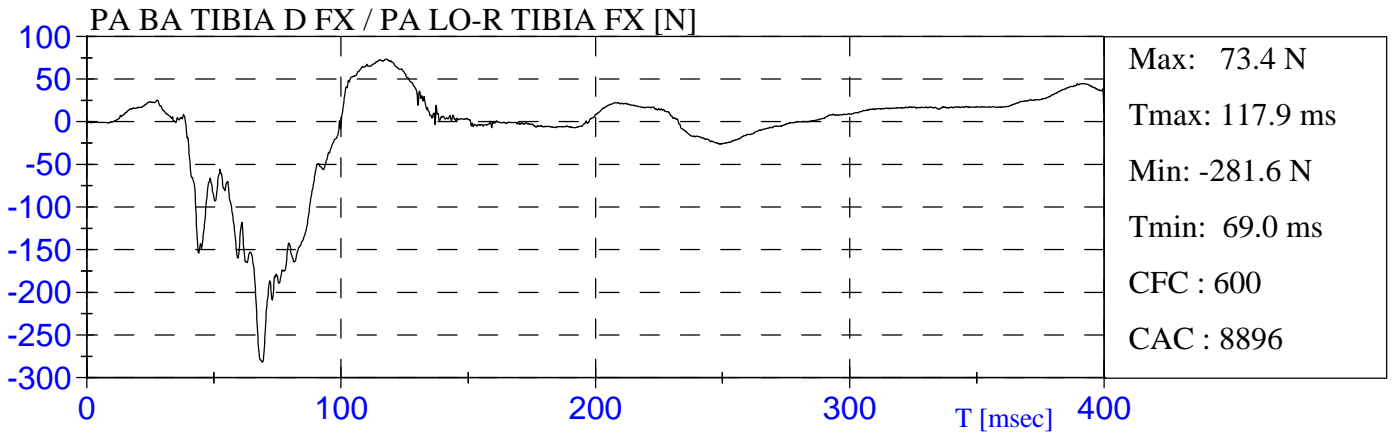




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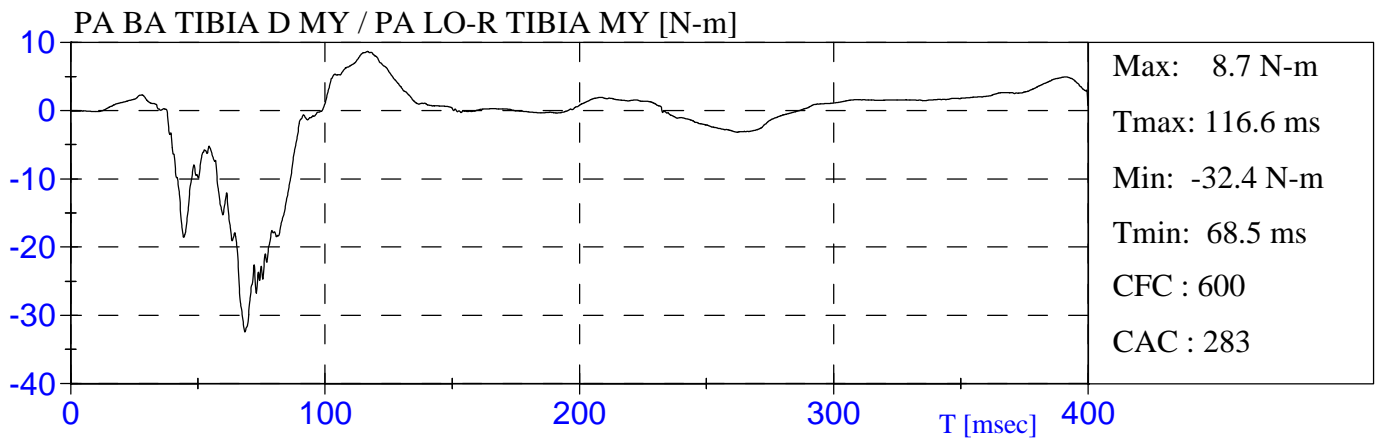
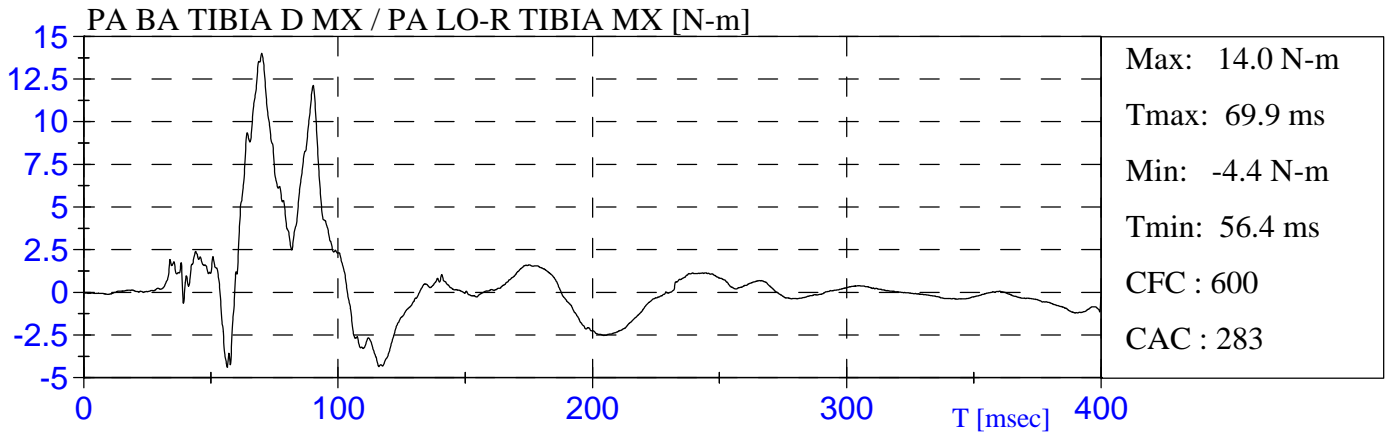




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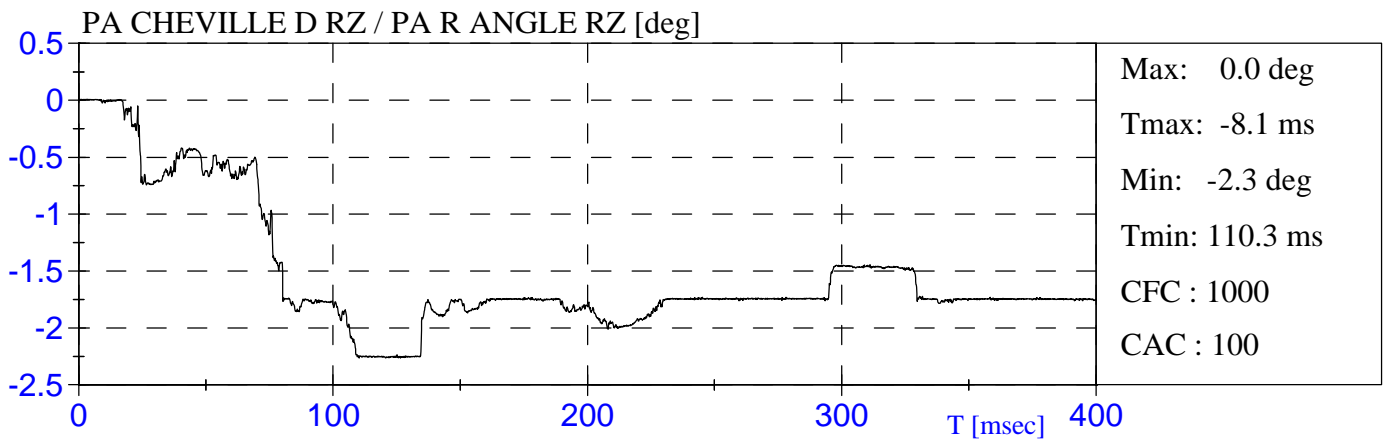
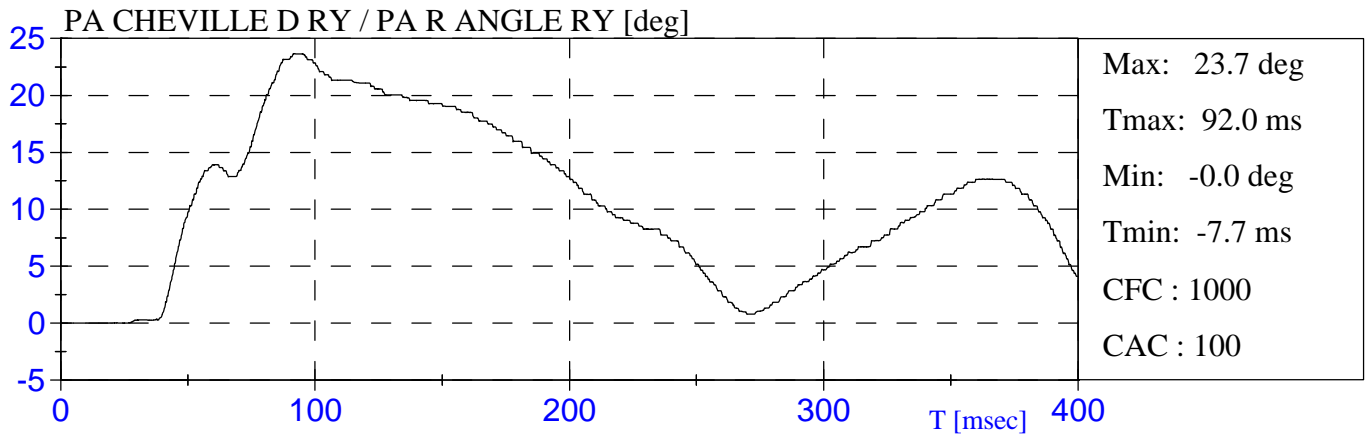
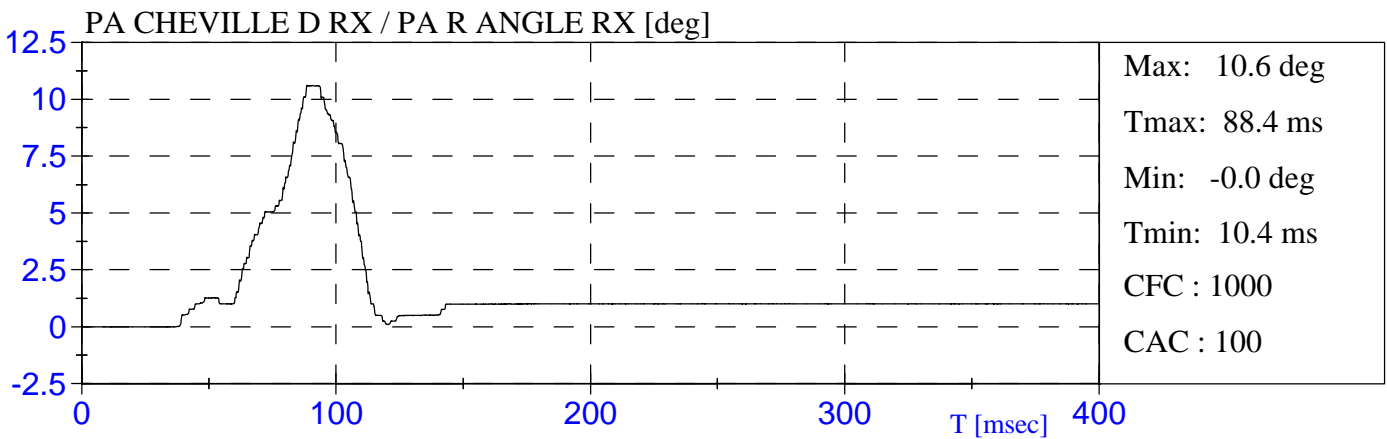
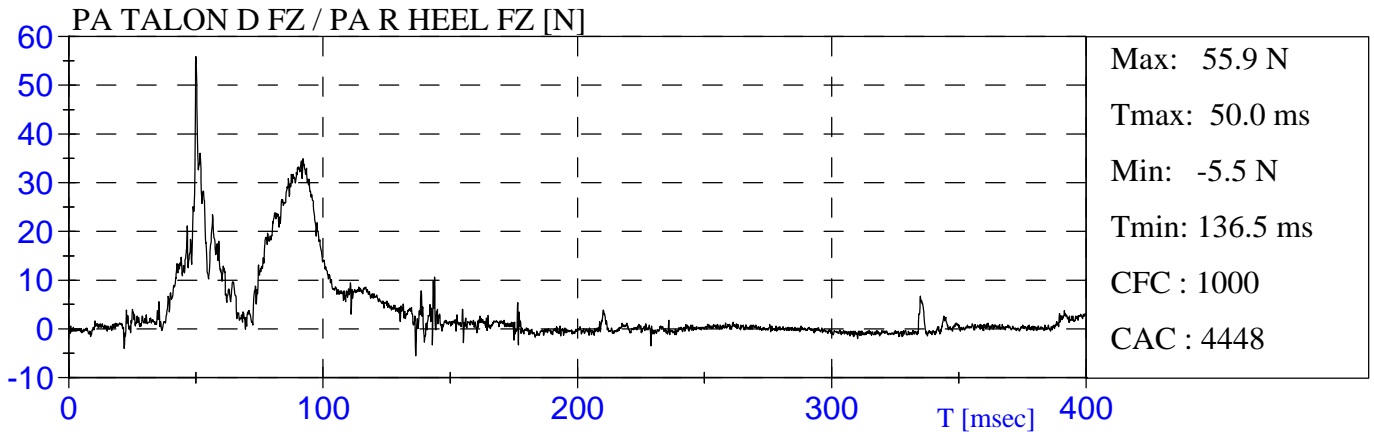
N° TC / TC No.: TC04-119





COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27
N° TC / TC No.: TC04-119

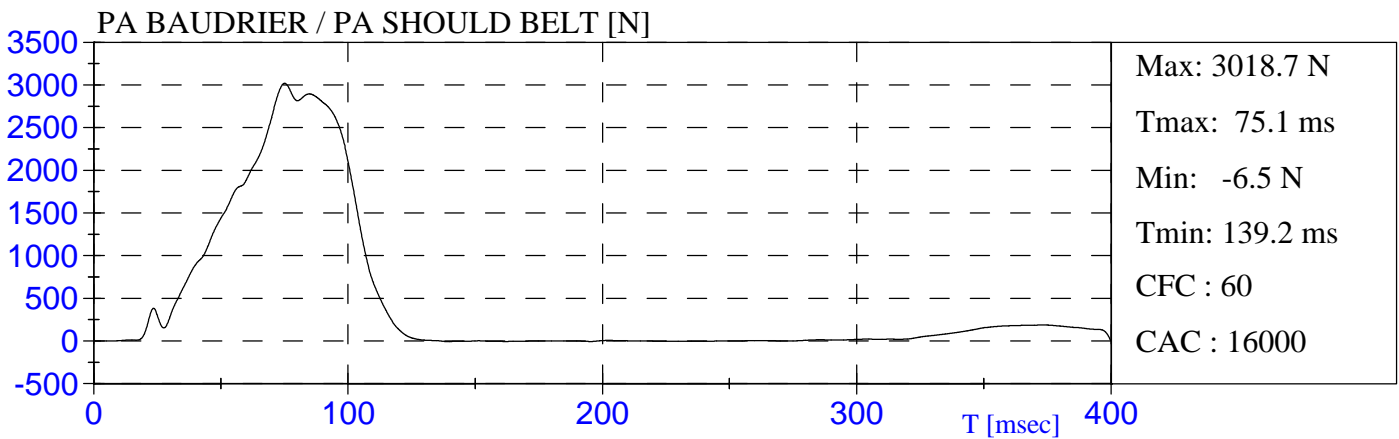
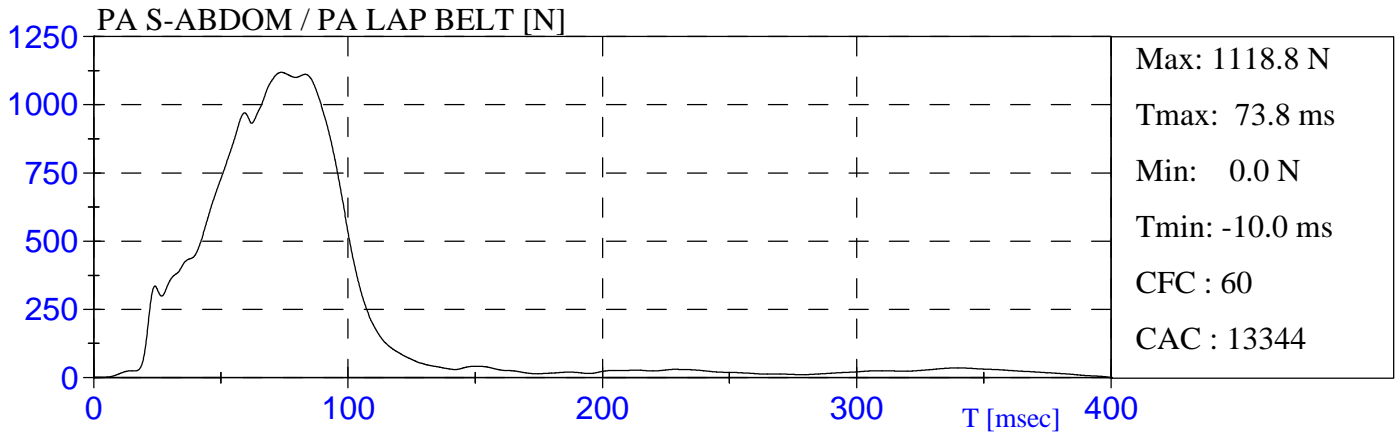


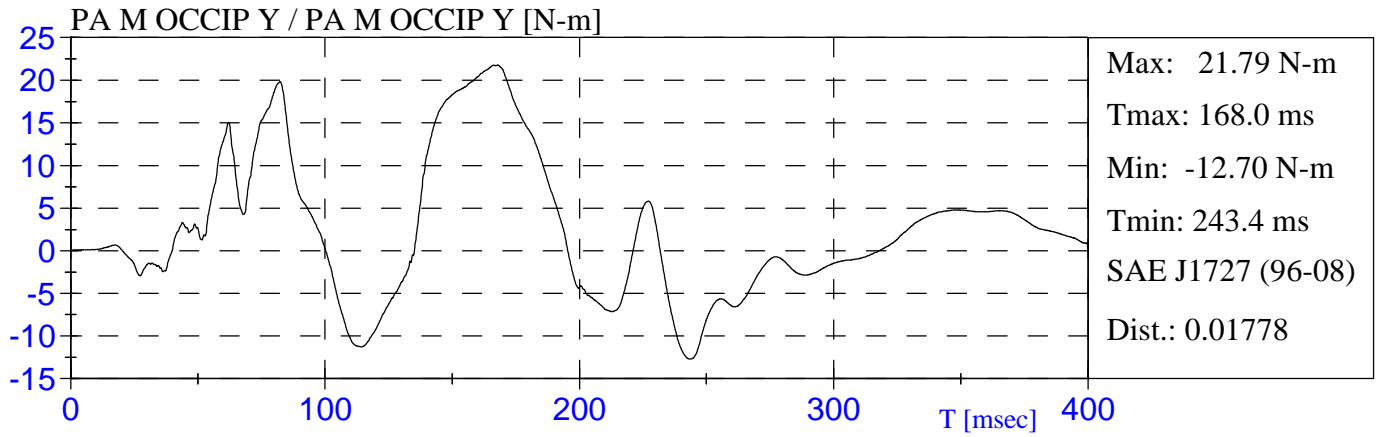


COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

N° TC / TC No.: TC04-119



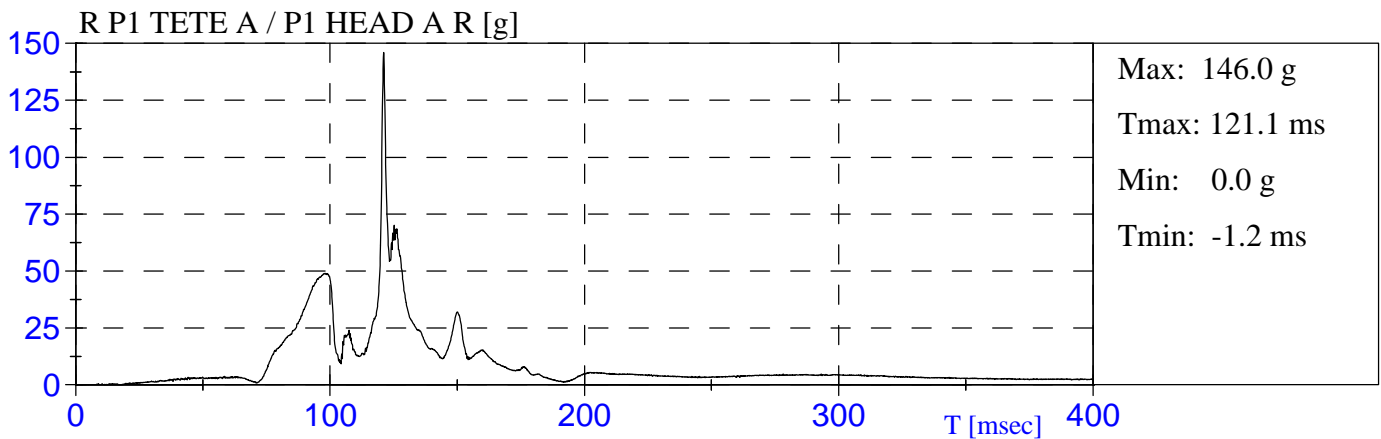
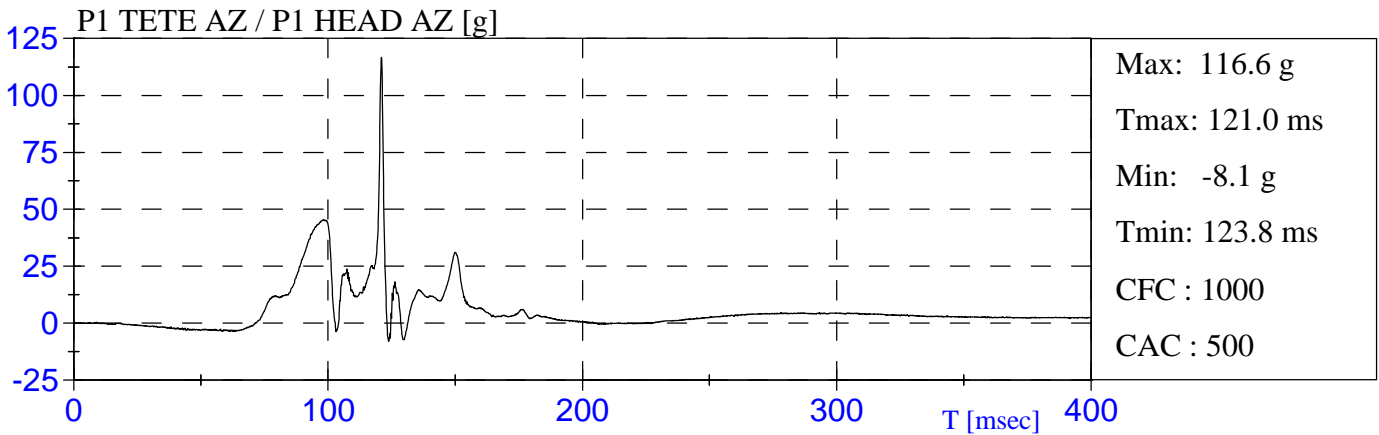
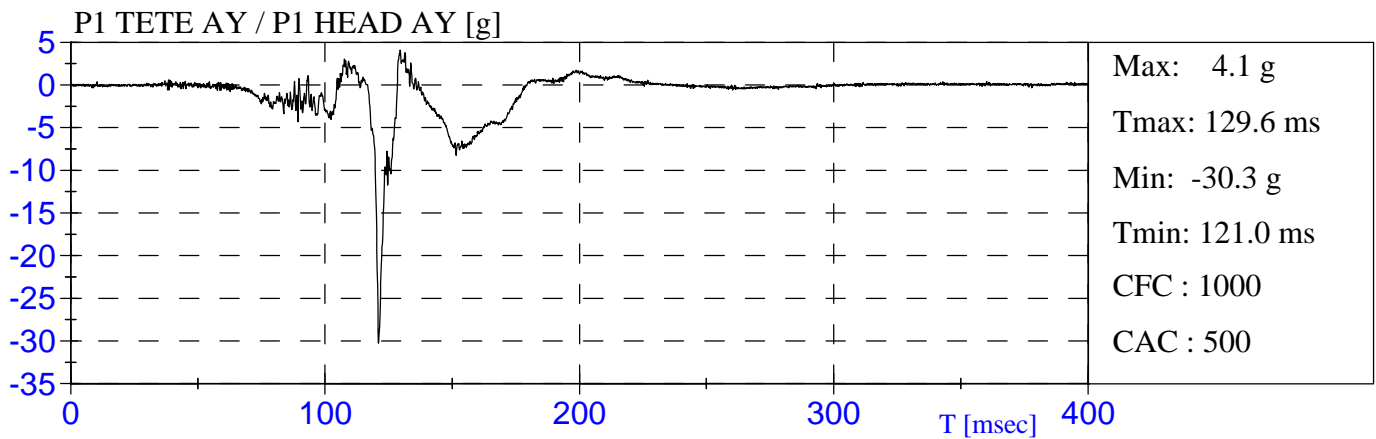
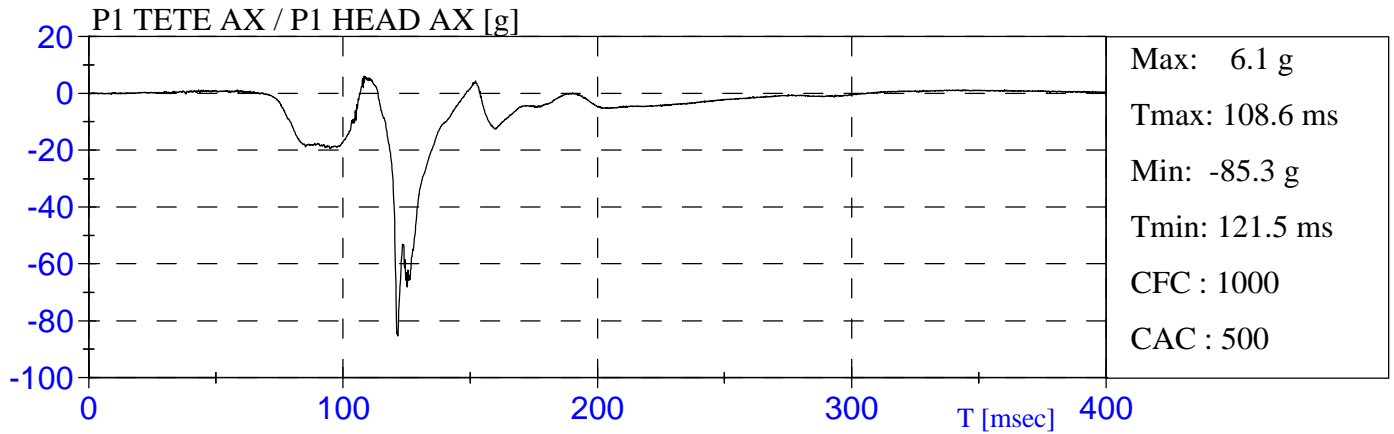




COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

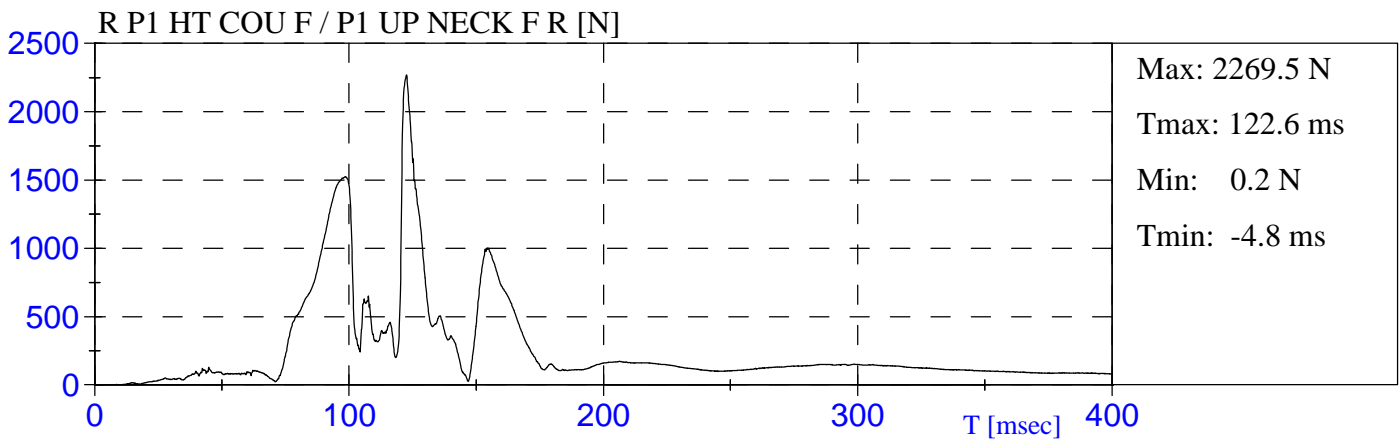
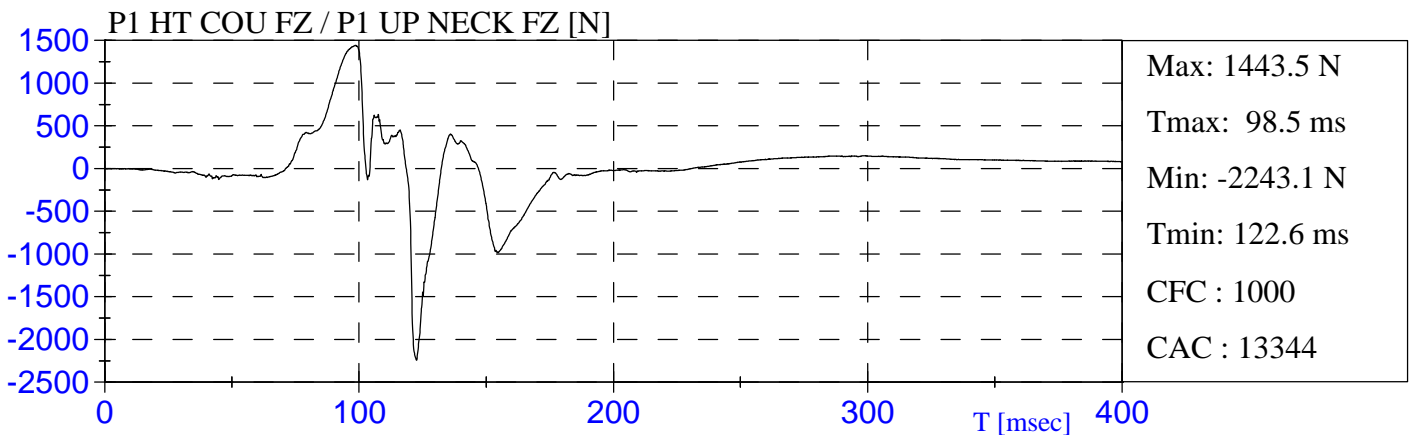
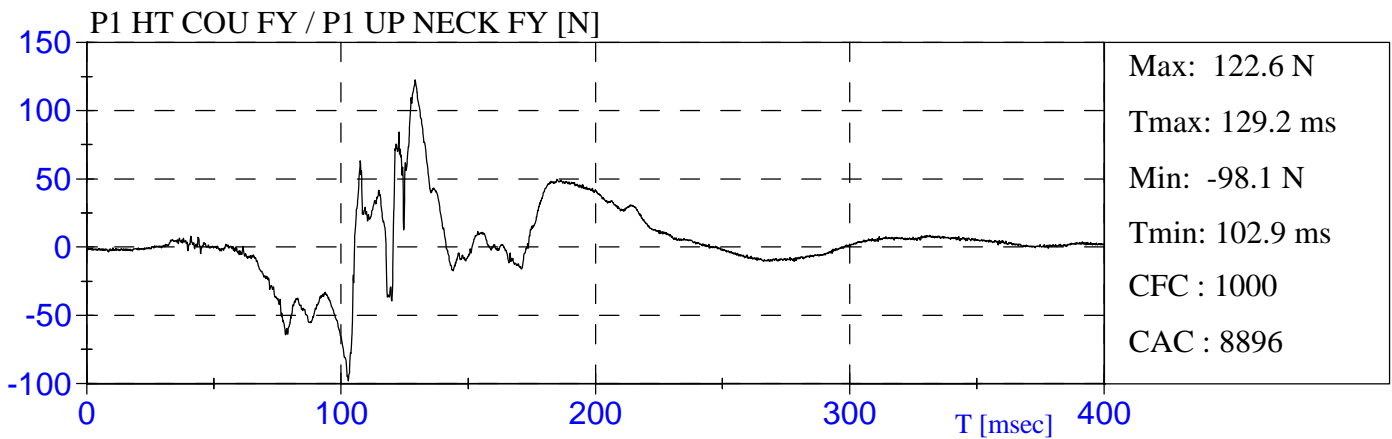
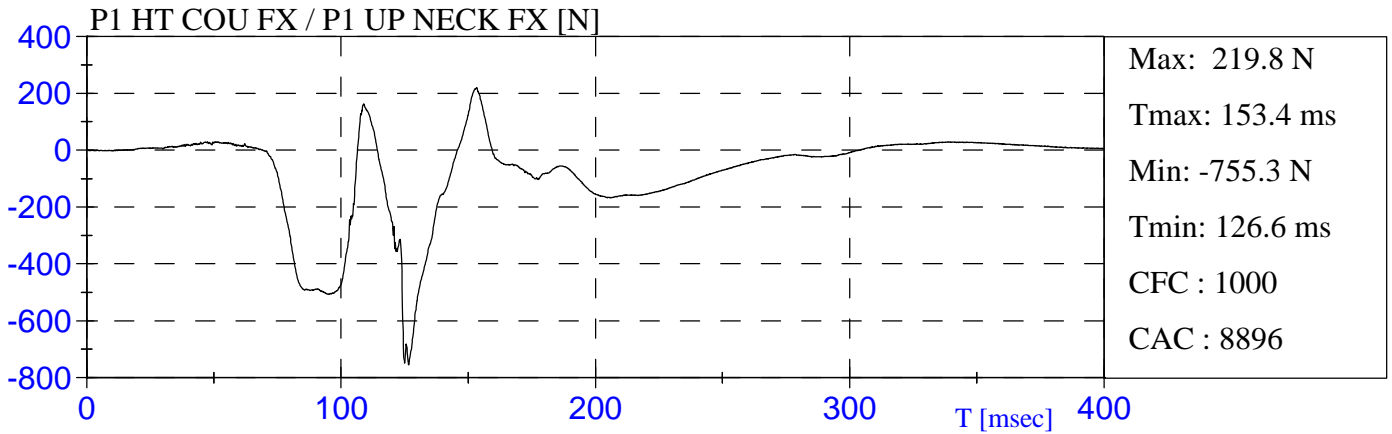
N° TC / TC No.: TC04-119





COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

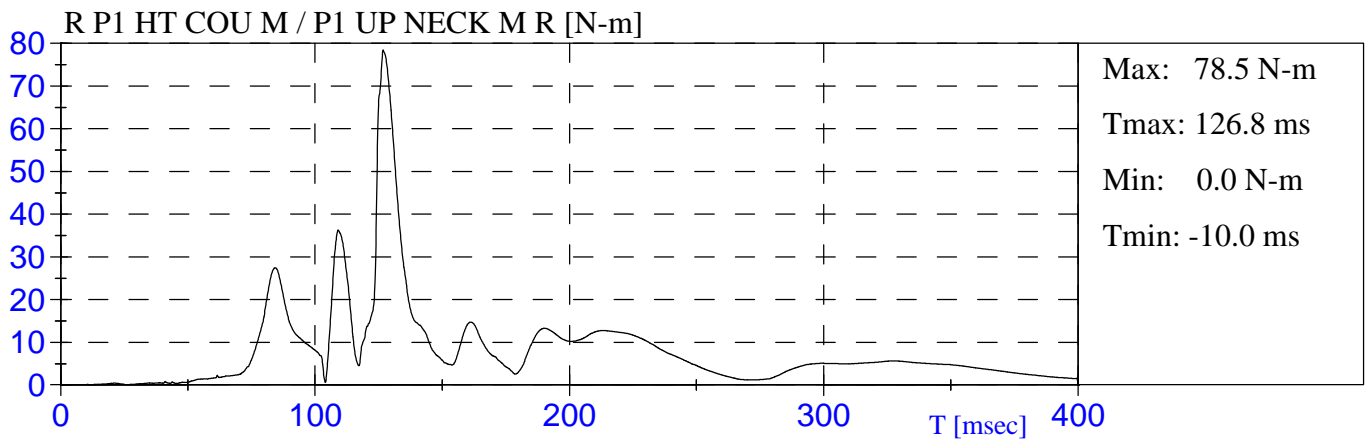
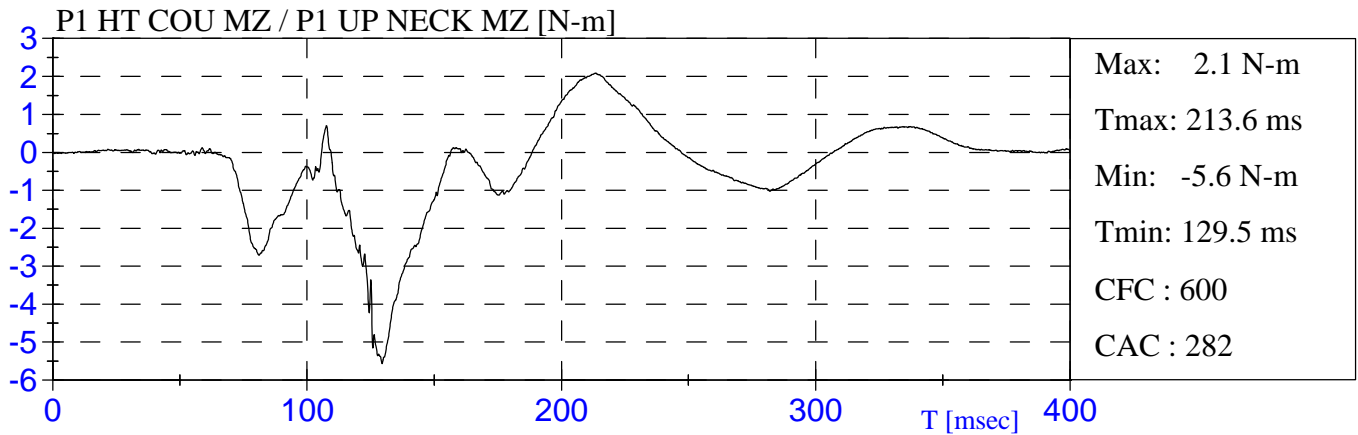
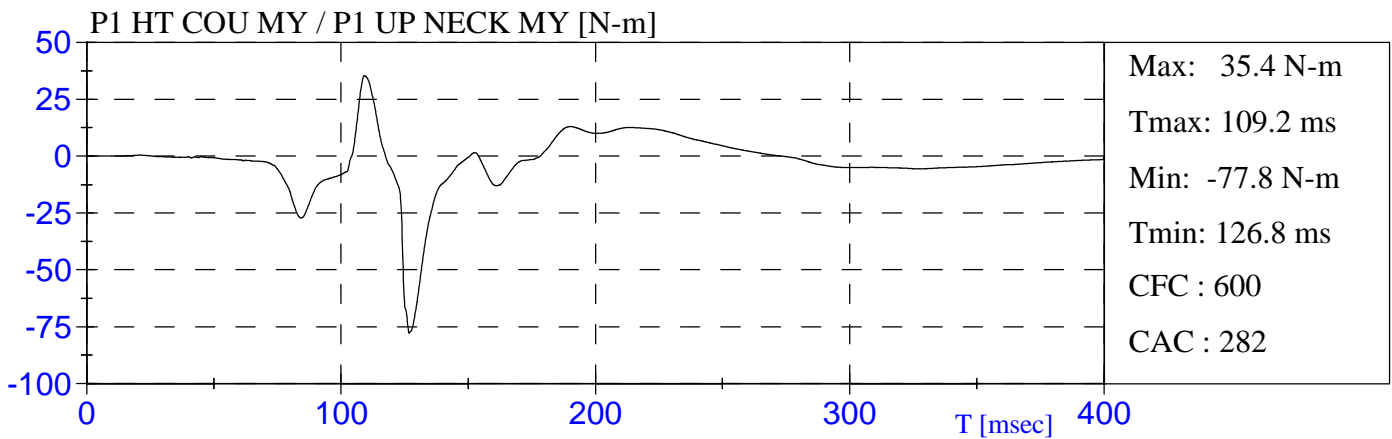
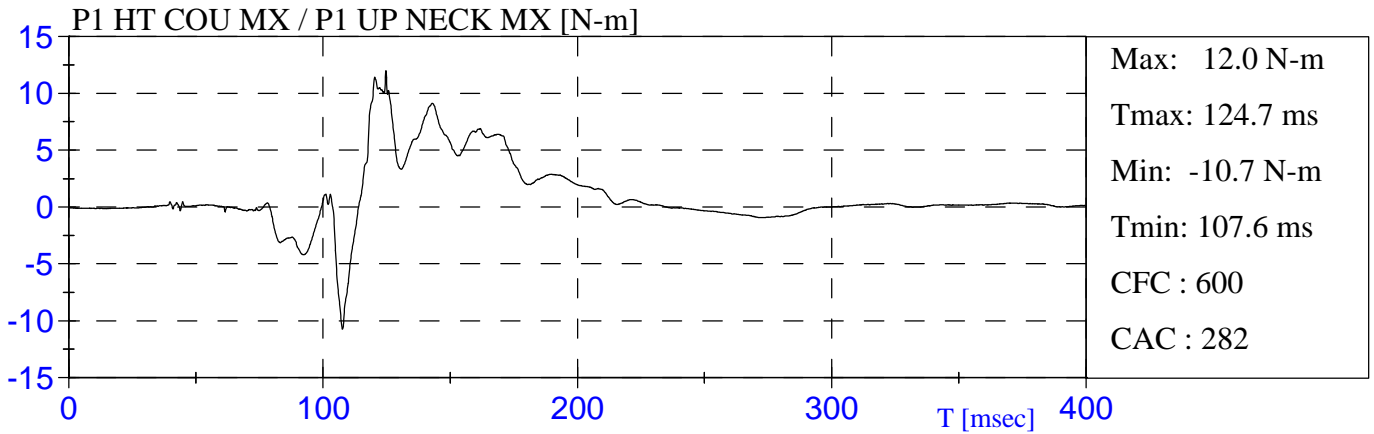
Date: 2004-02-27
N° TC / TC No.: TC04-119





COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27
N° TC / TC No.: TC04-119

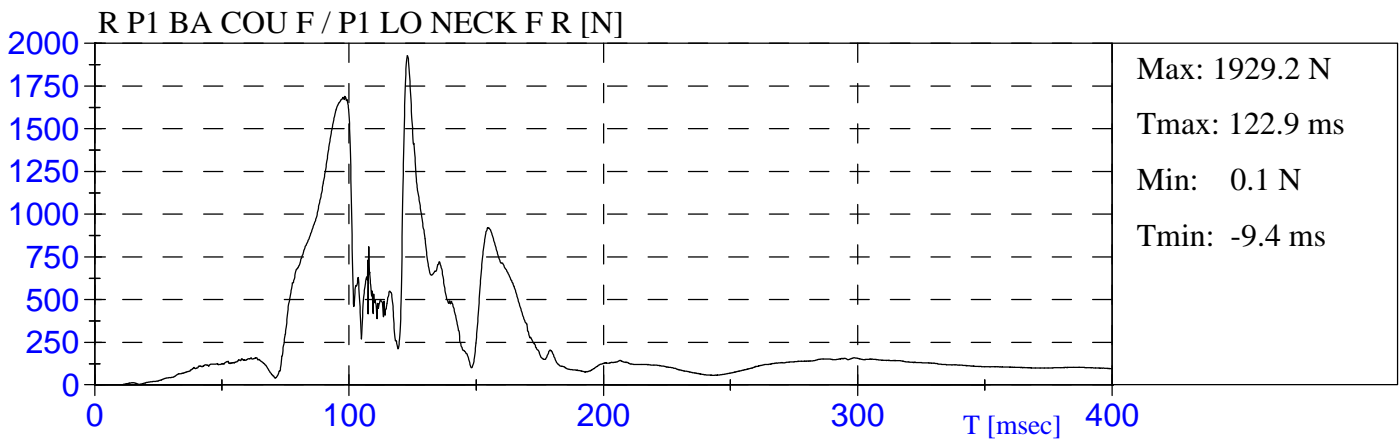
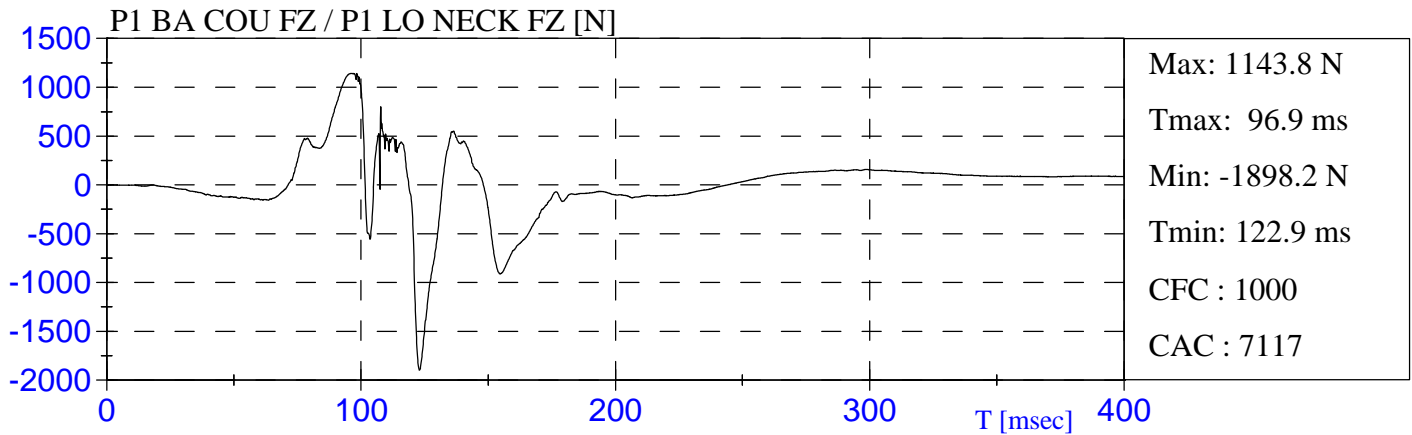
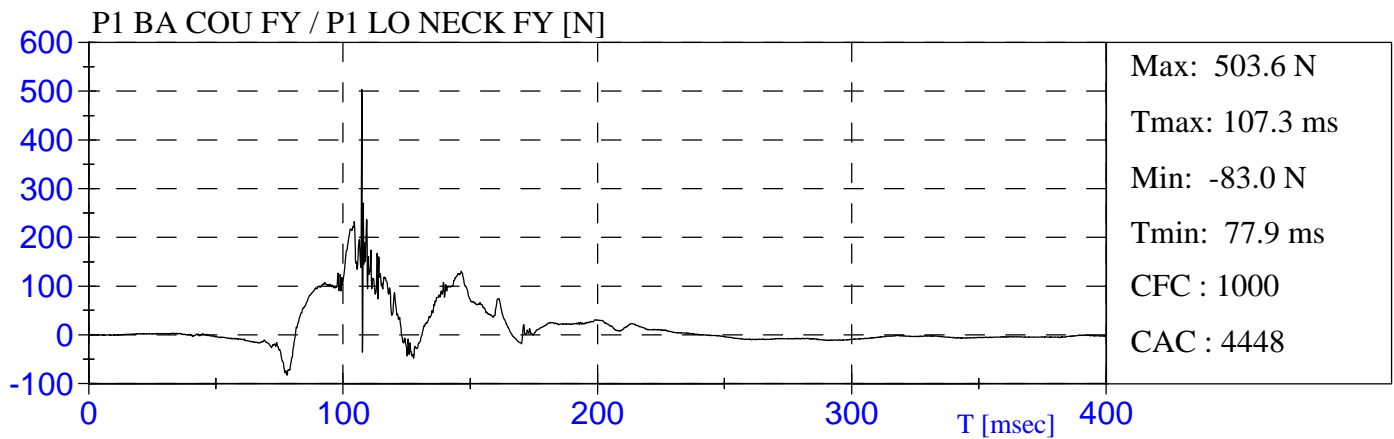
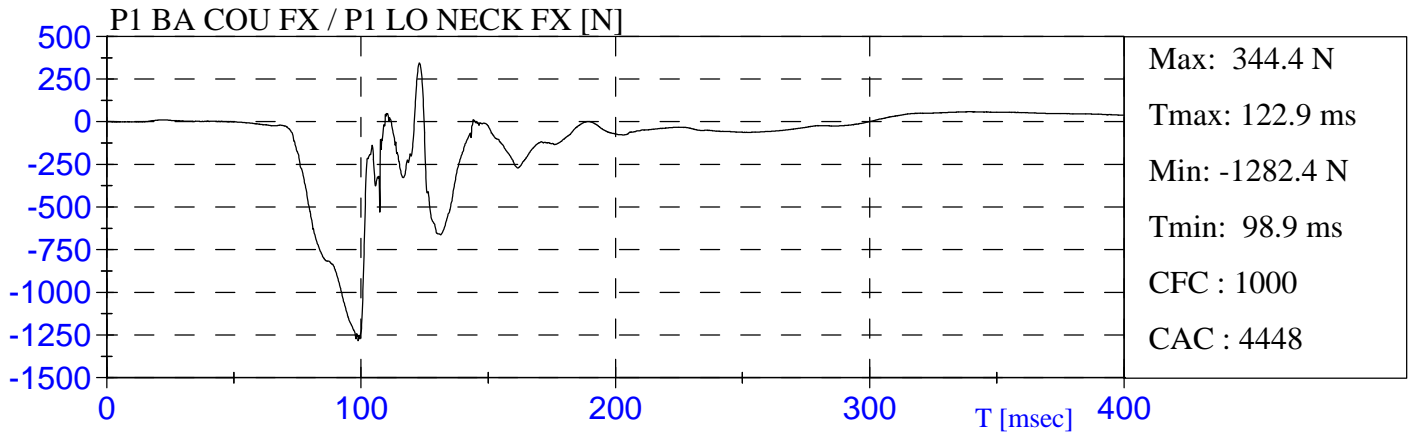




COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

N° TC / TC No.: TC04-119

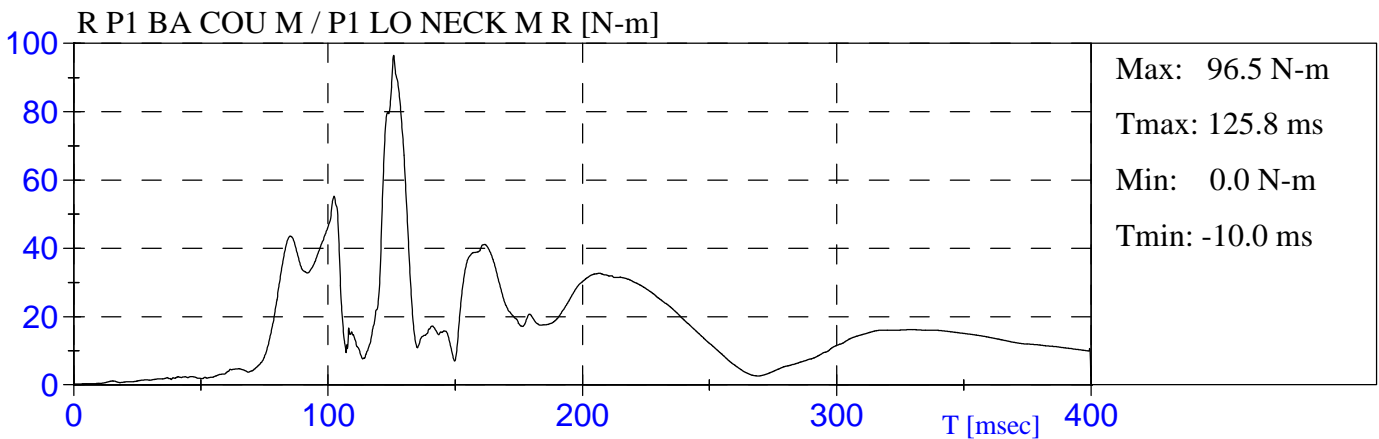
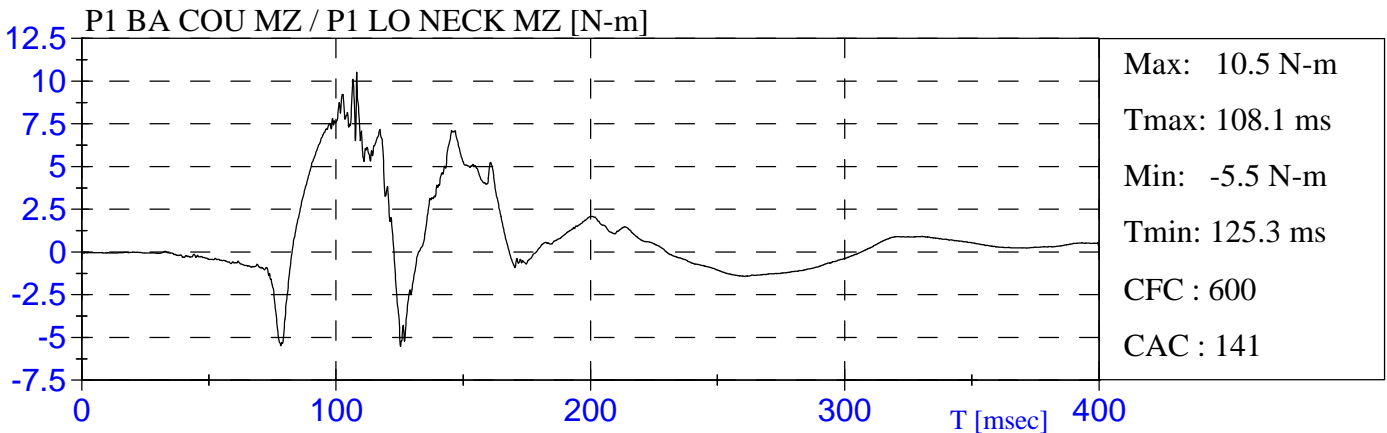
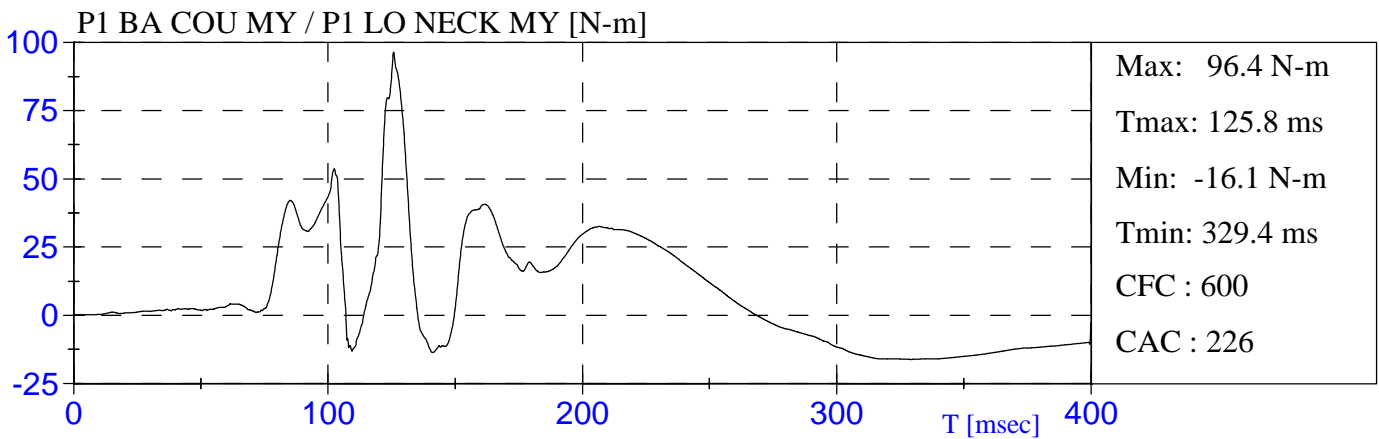
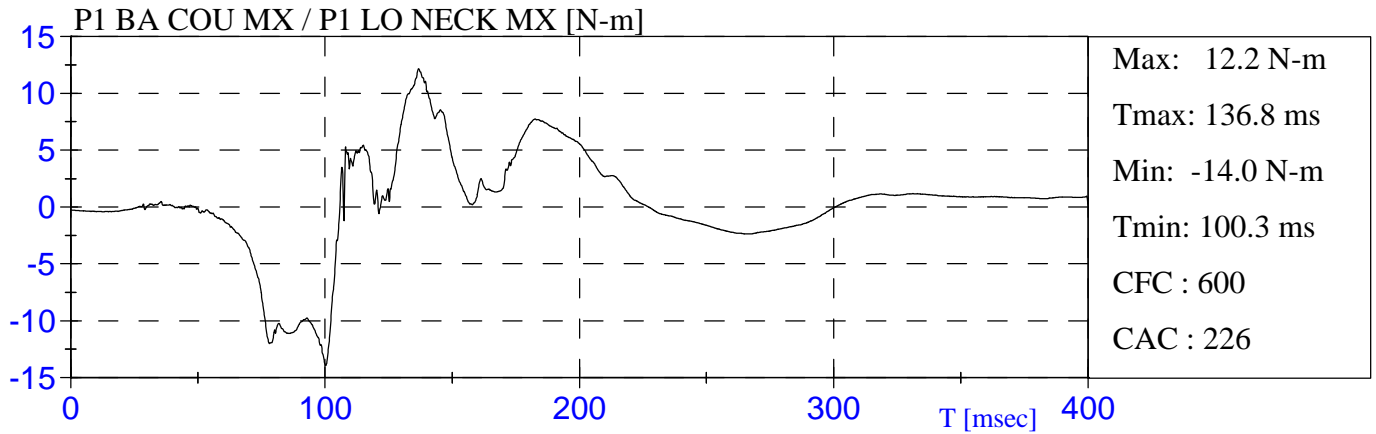


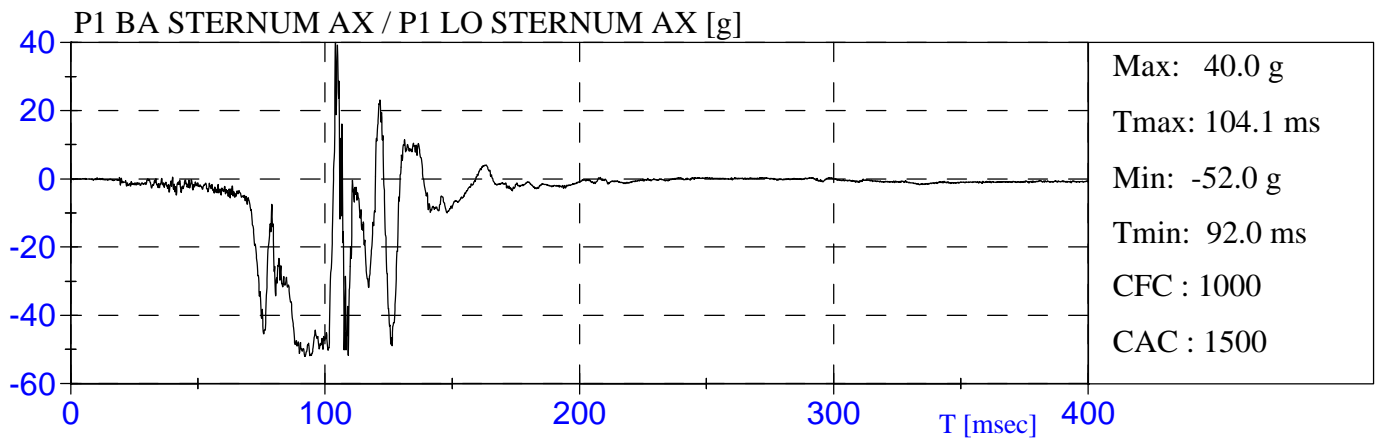
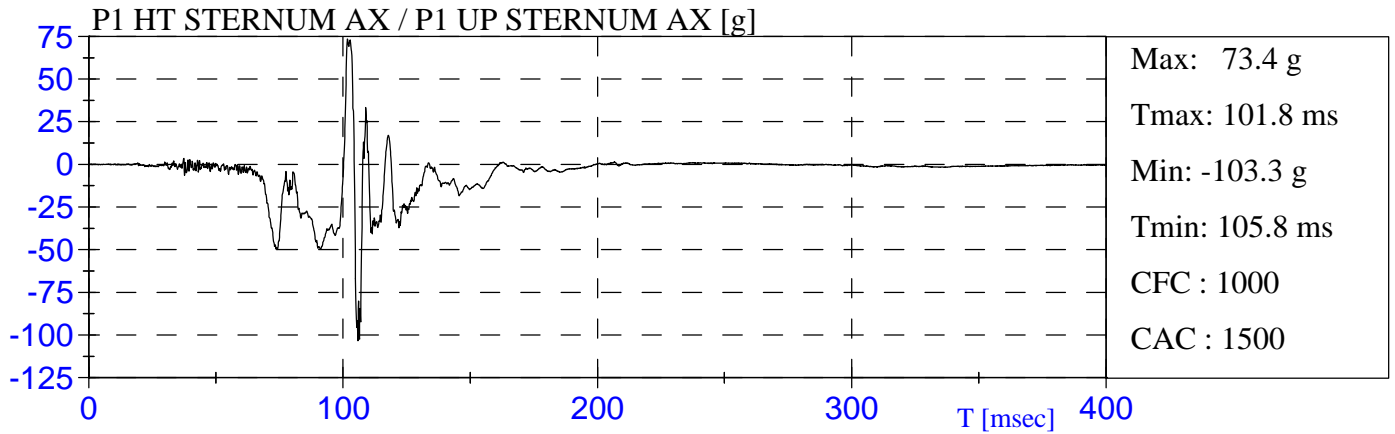


COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

N° TC / TC No.: TC04-119



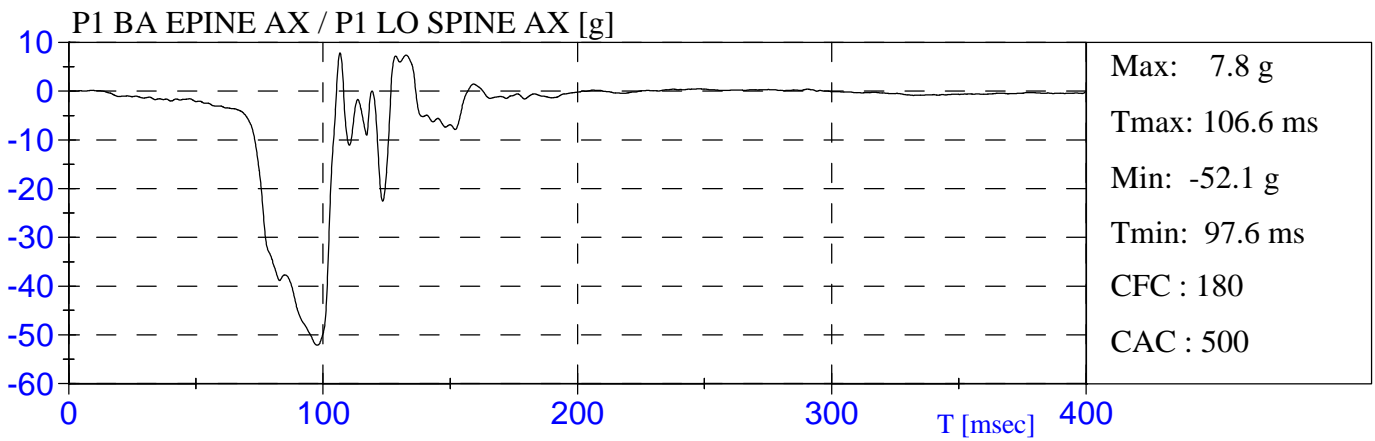
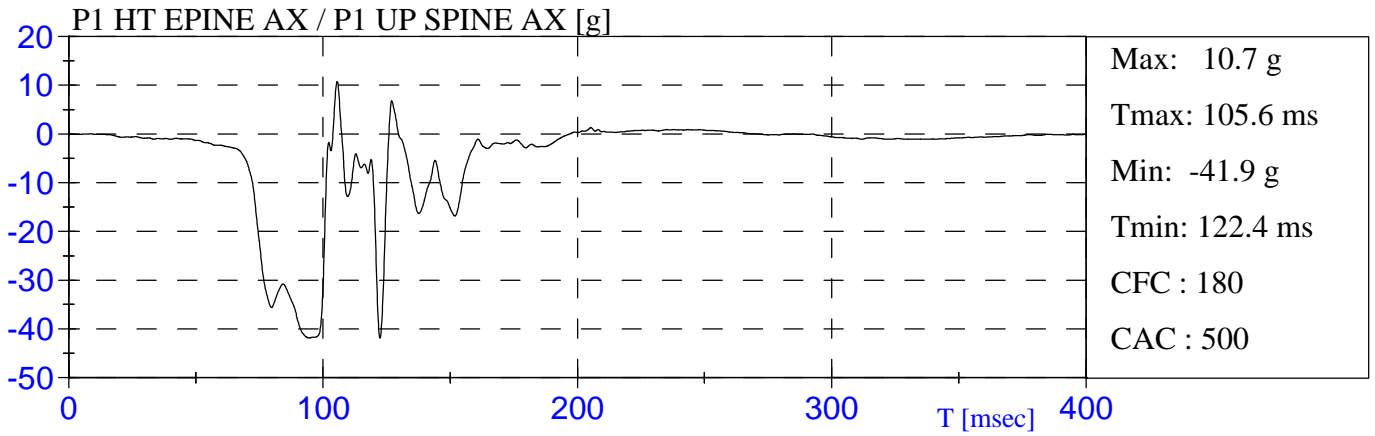




COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

N° TC / TC No.: TC04-119

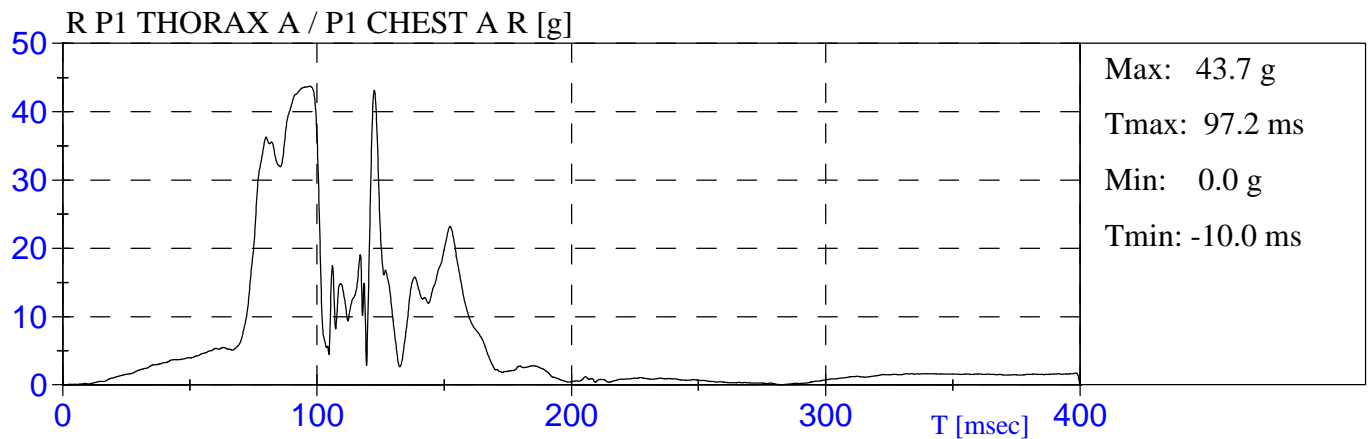
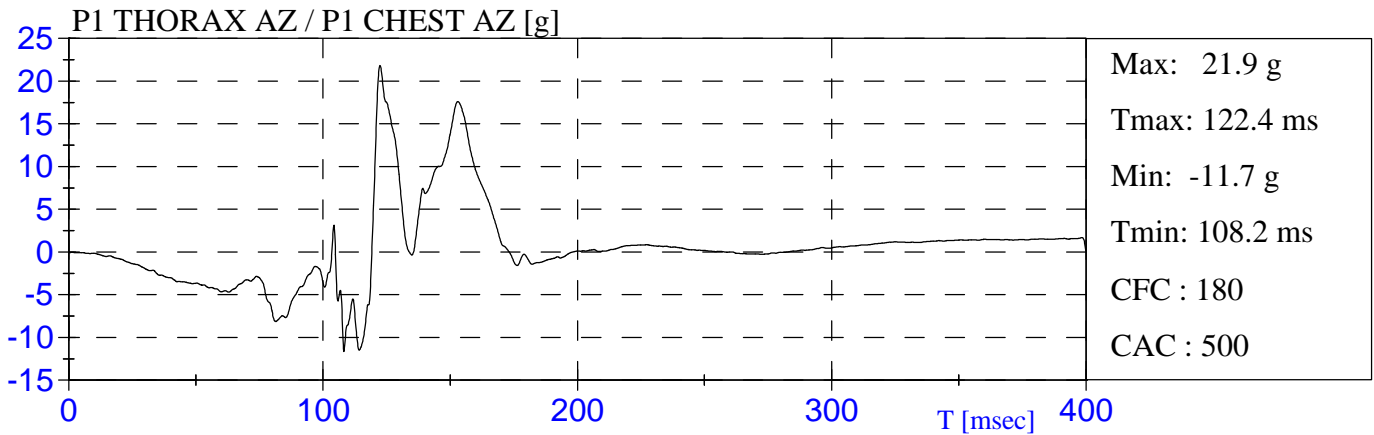
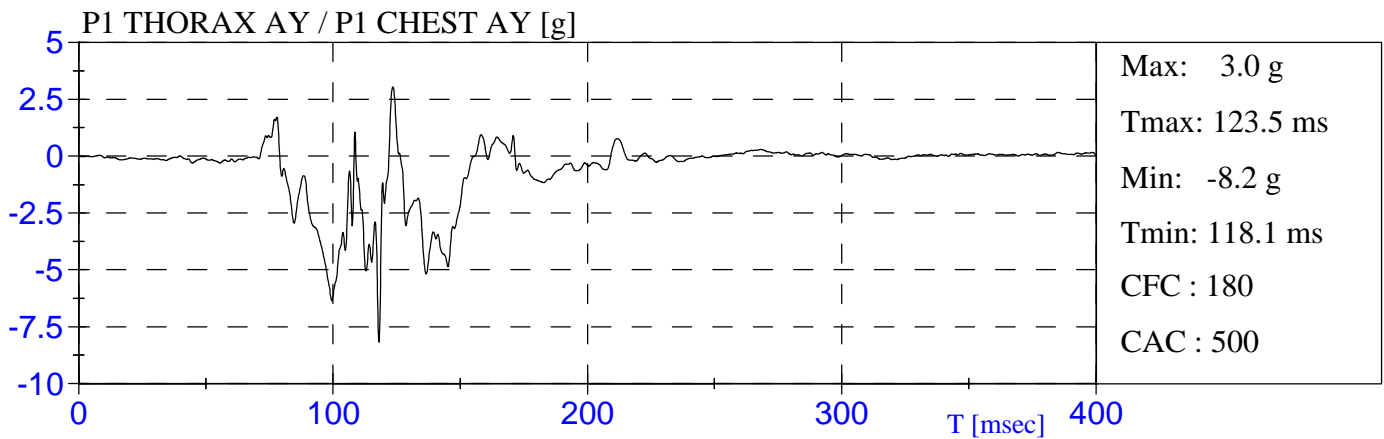
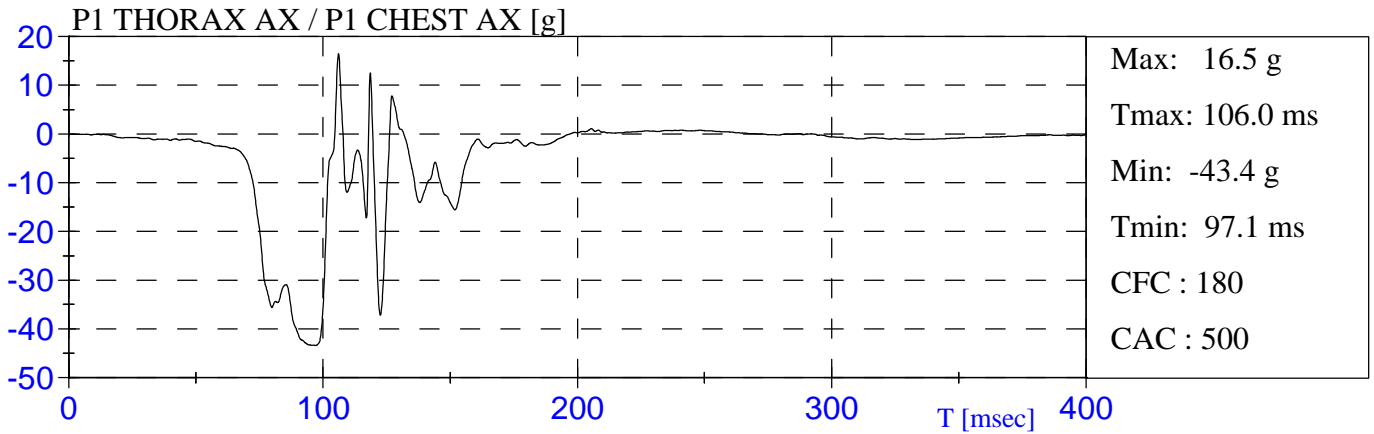




COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

N° TC / TC No.: TC04-119

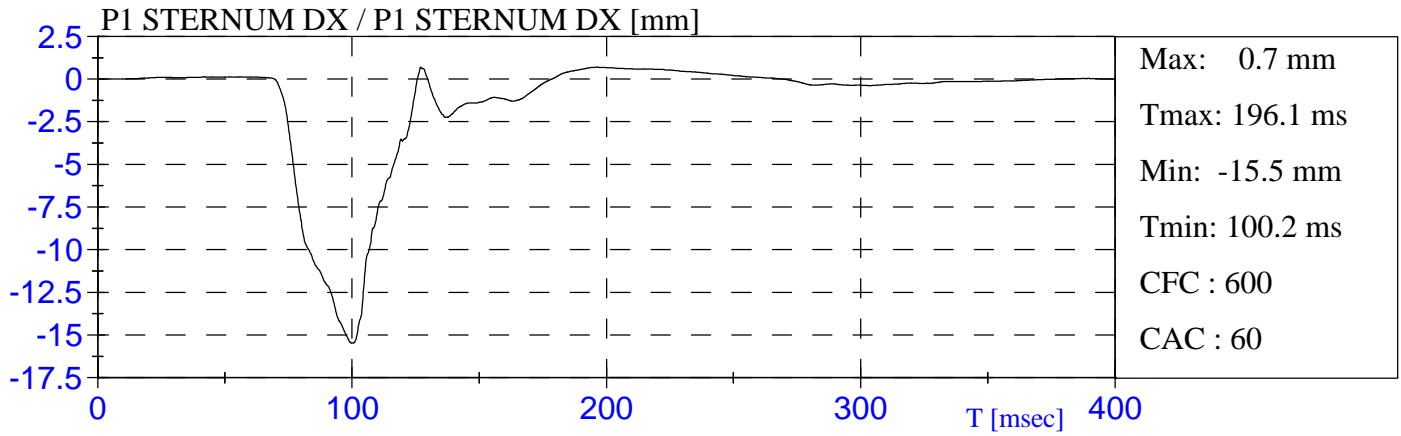




COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

N° TC / TC No.: TC04-119

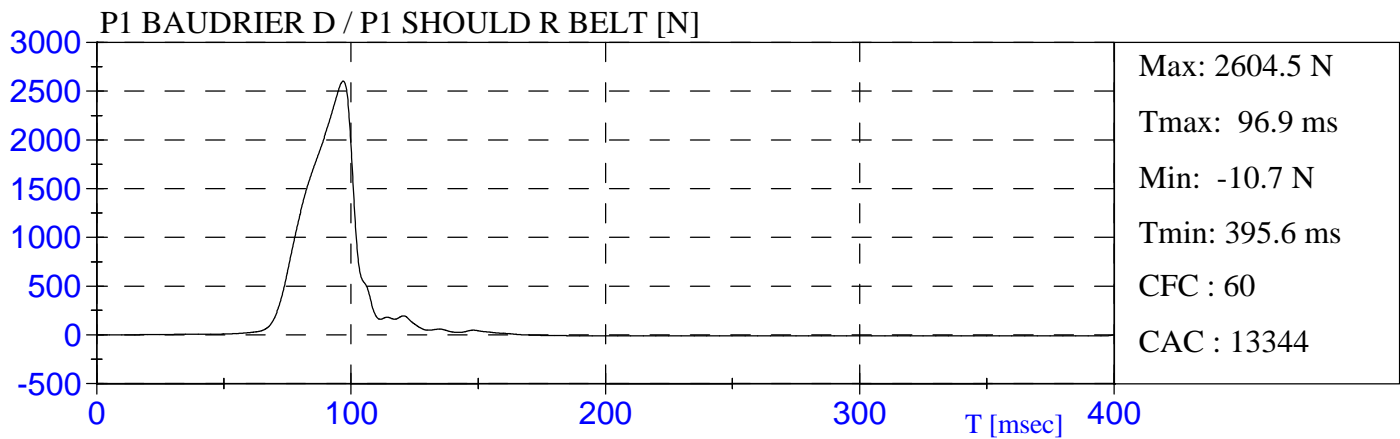
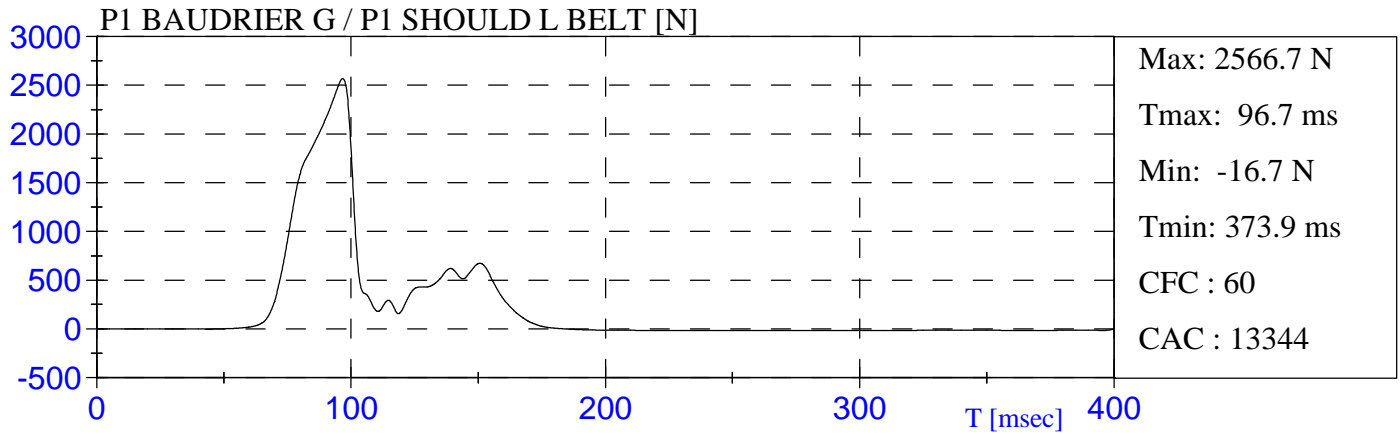


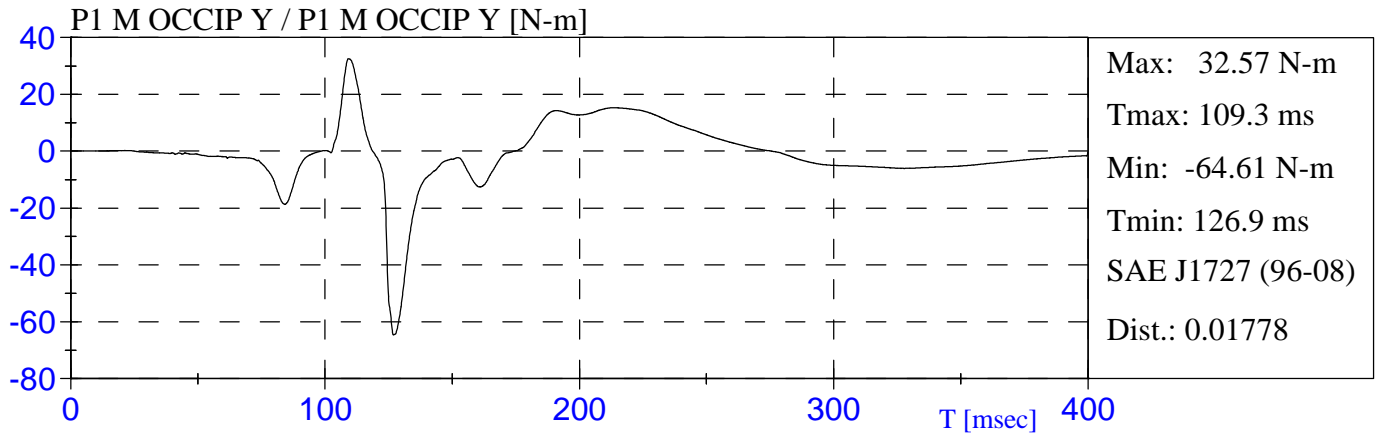


COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

N° TC / TC No.: TC04-119



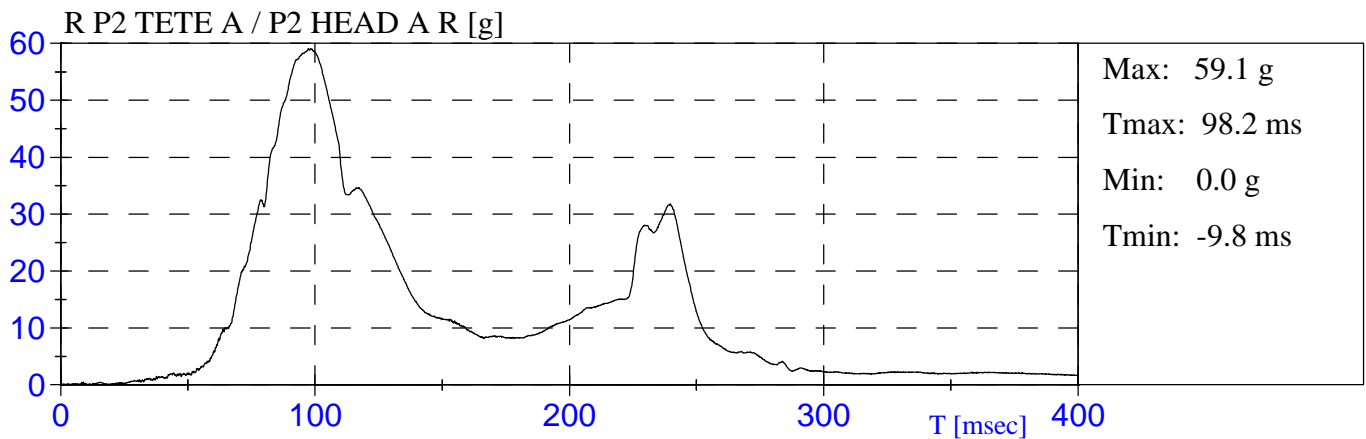
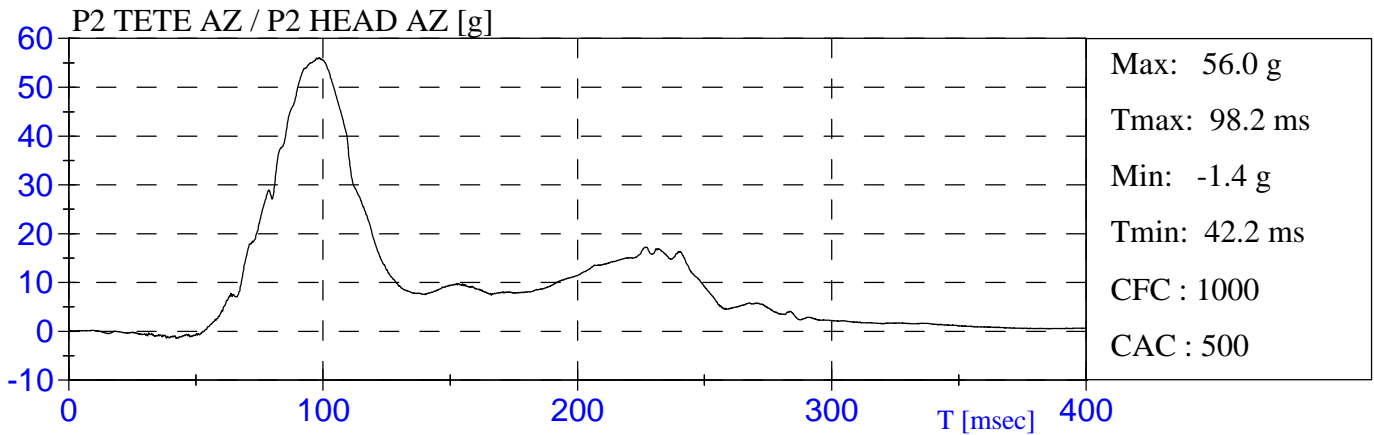
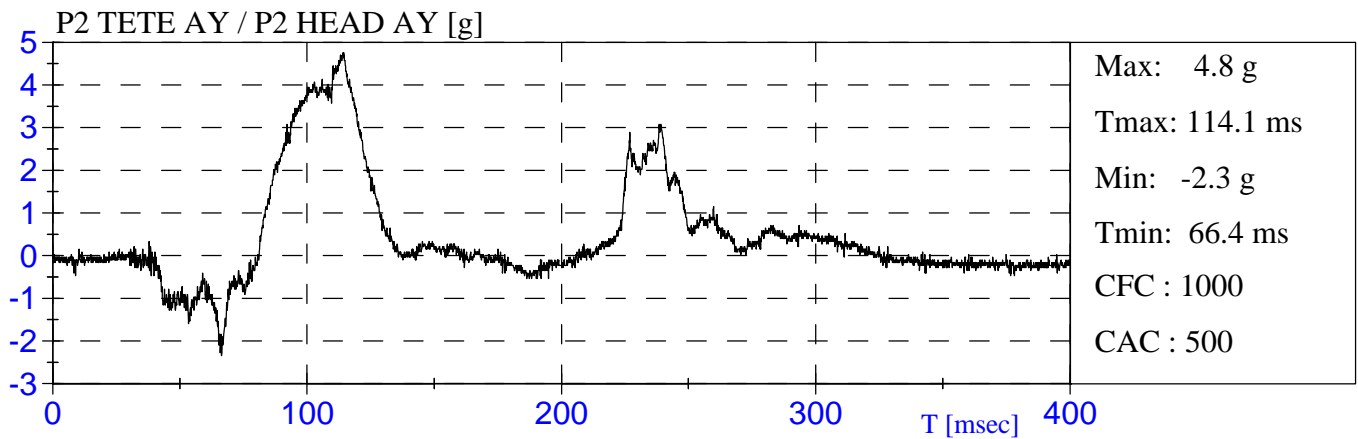
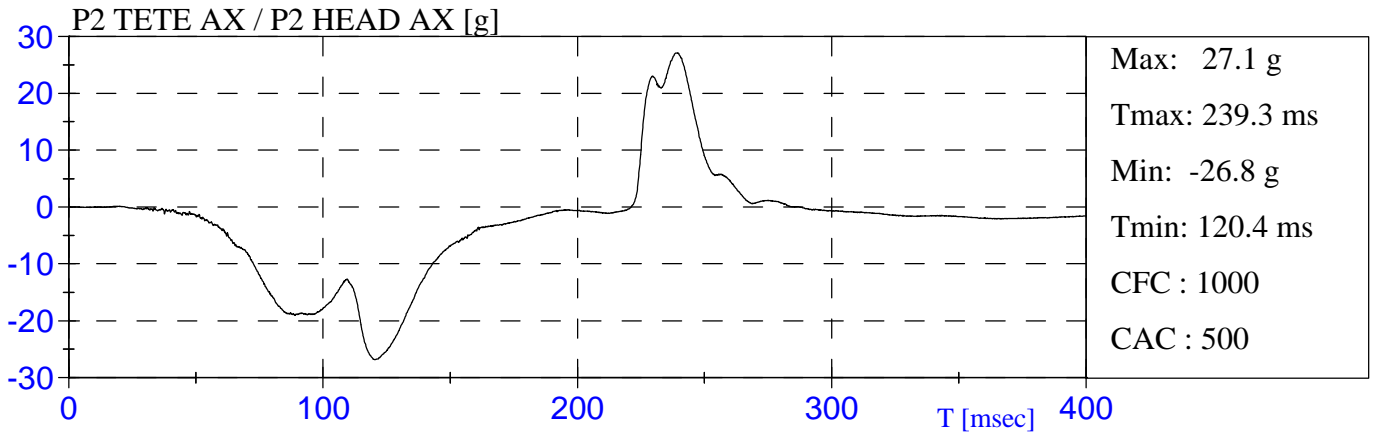




COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

N° TC / TC No.: TC04-119

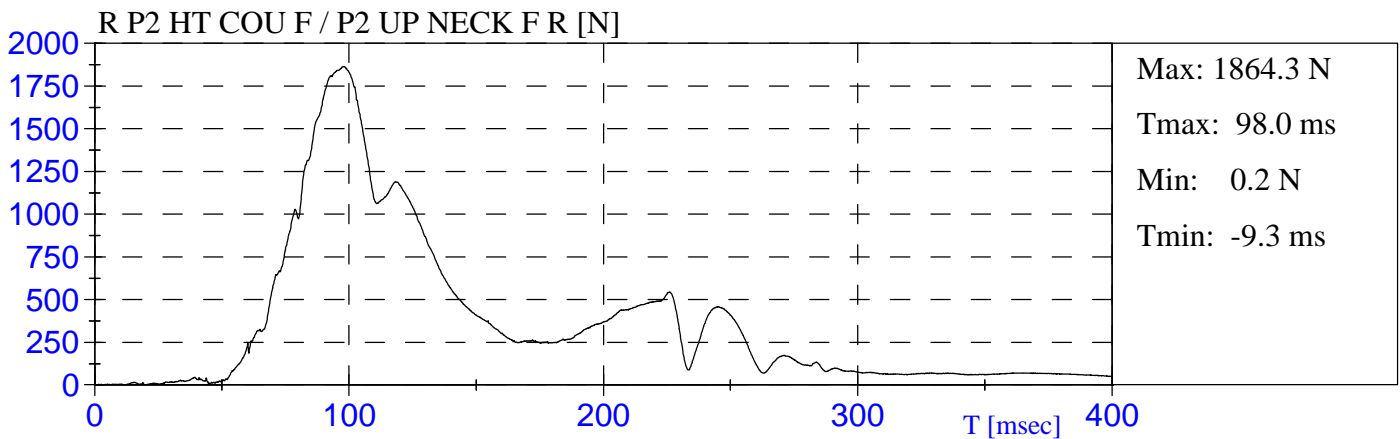
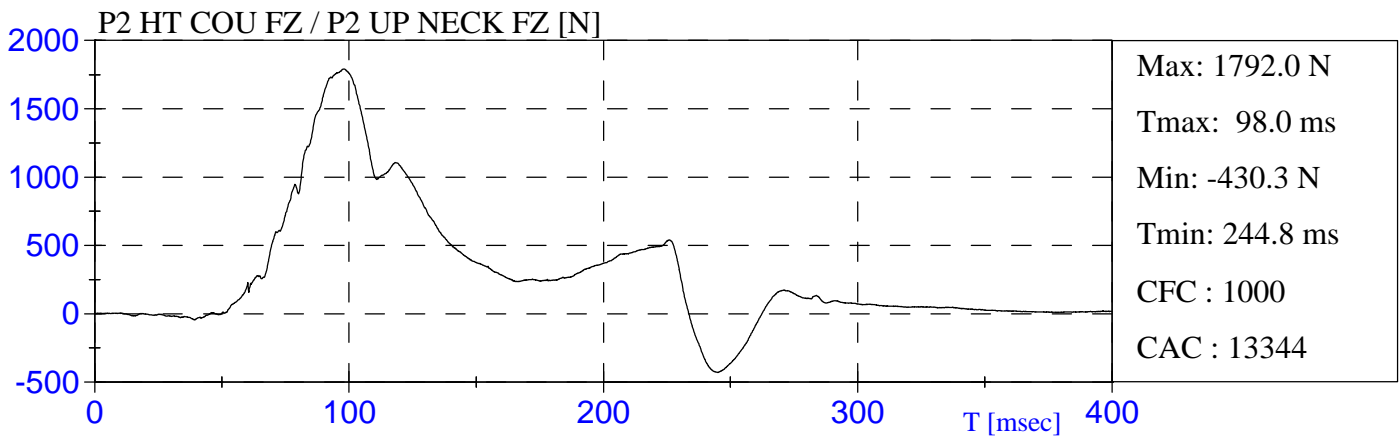
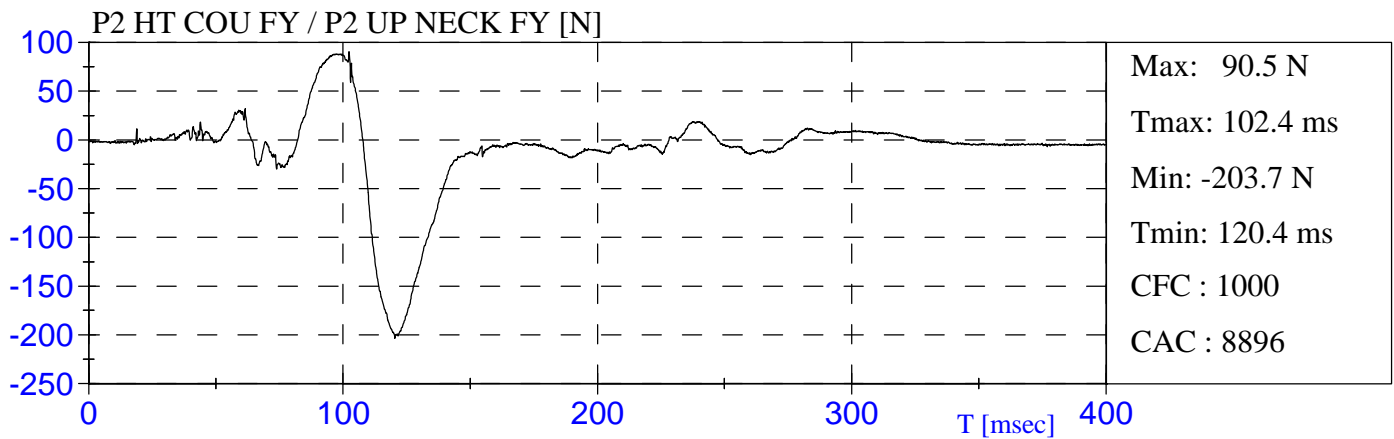
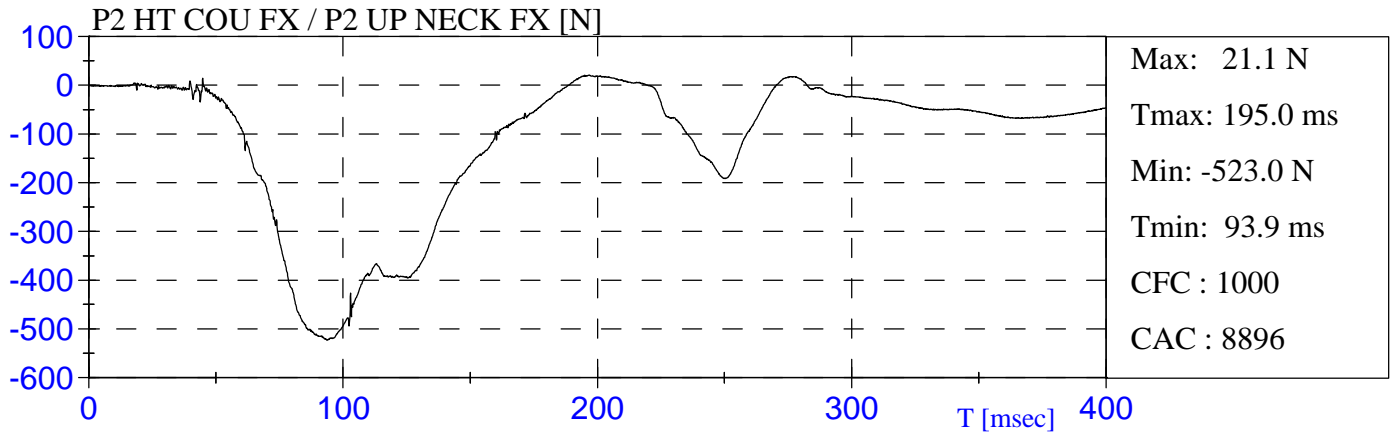




COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

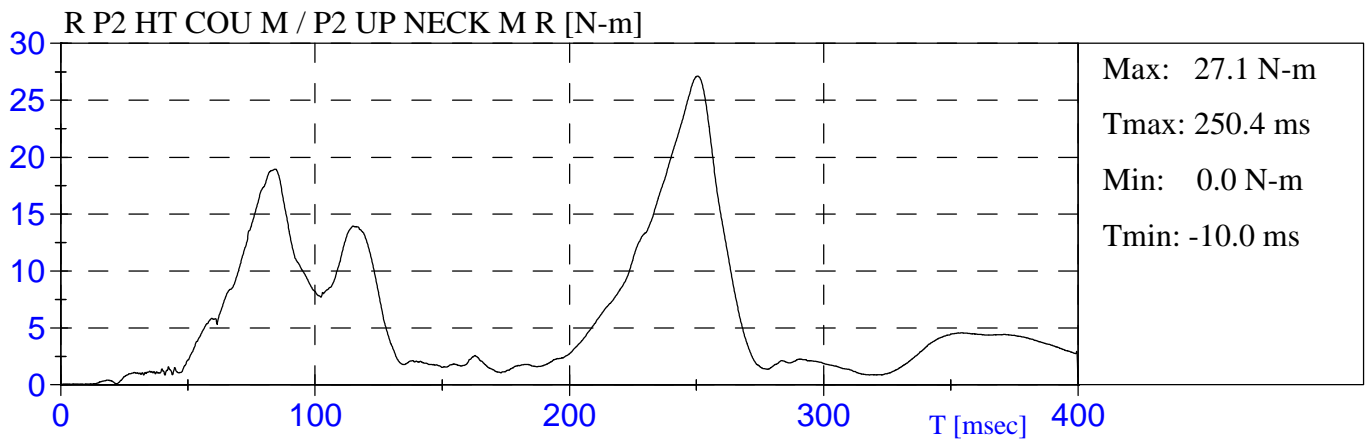
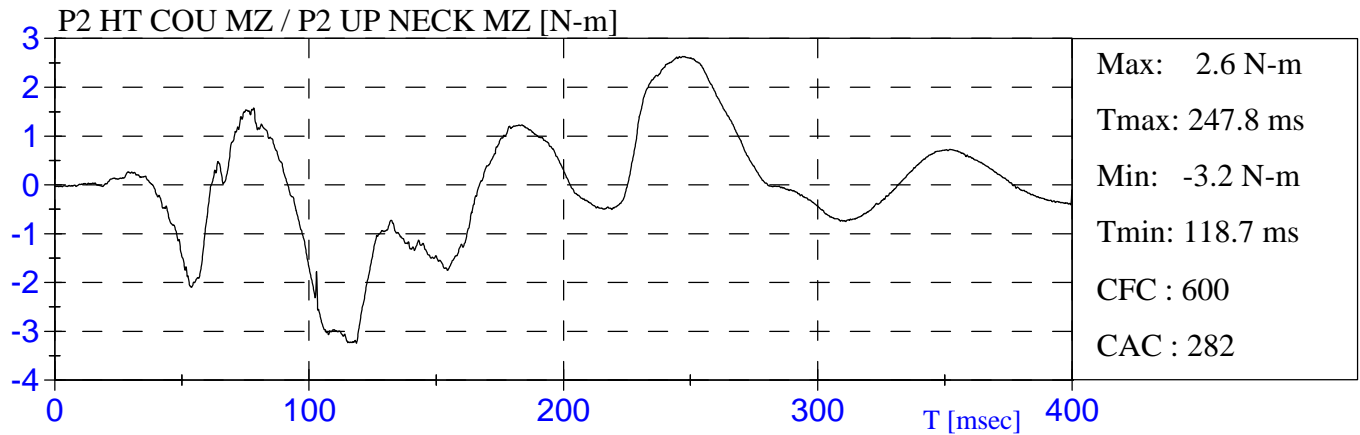
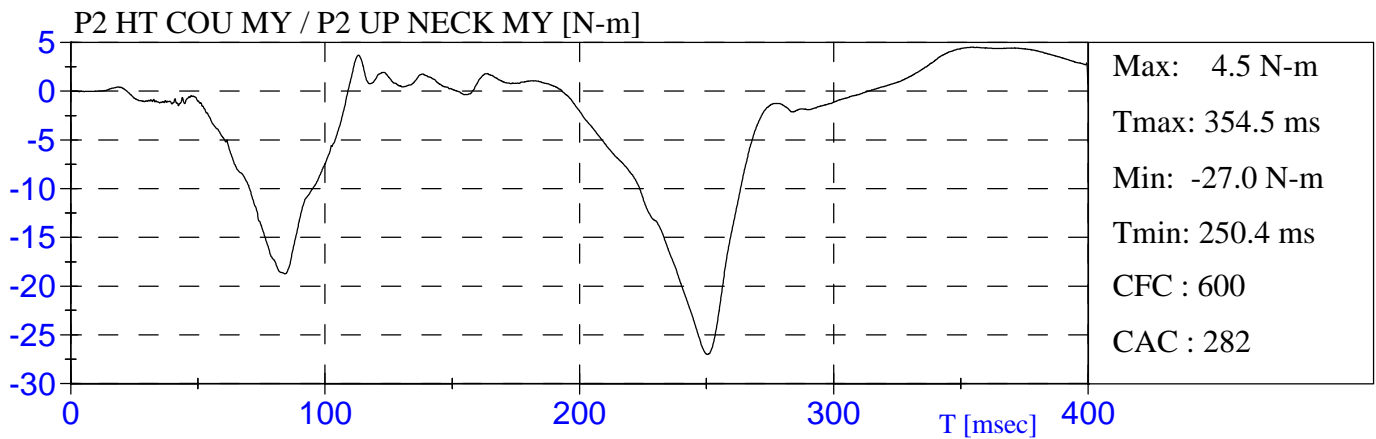
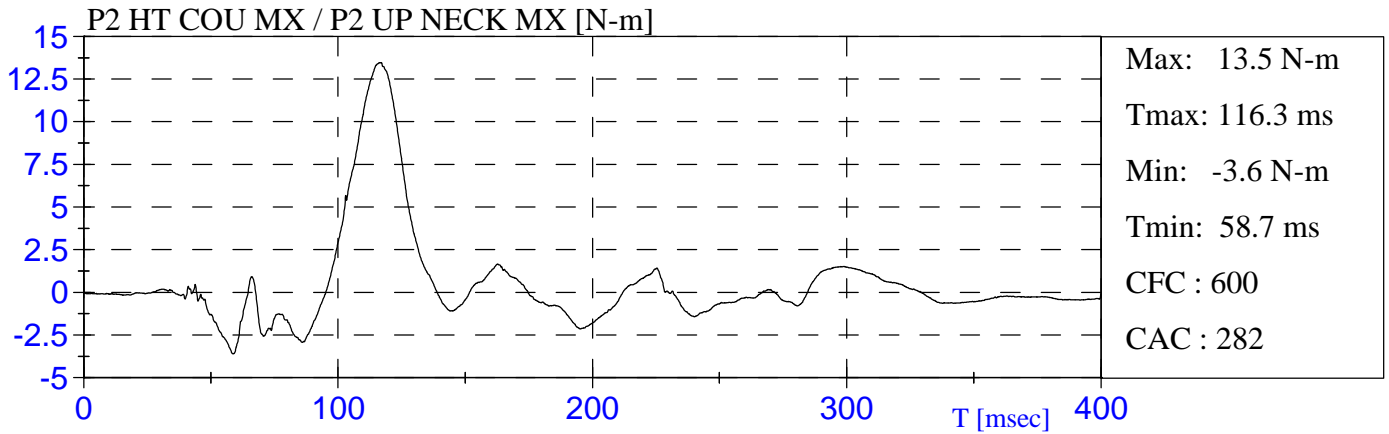
N° TC / TC No.: TC04-119





COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27
N° TC / TC No.: TC04-119

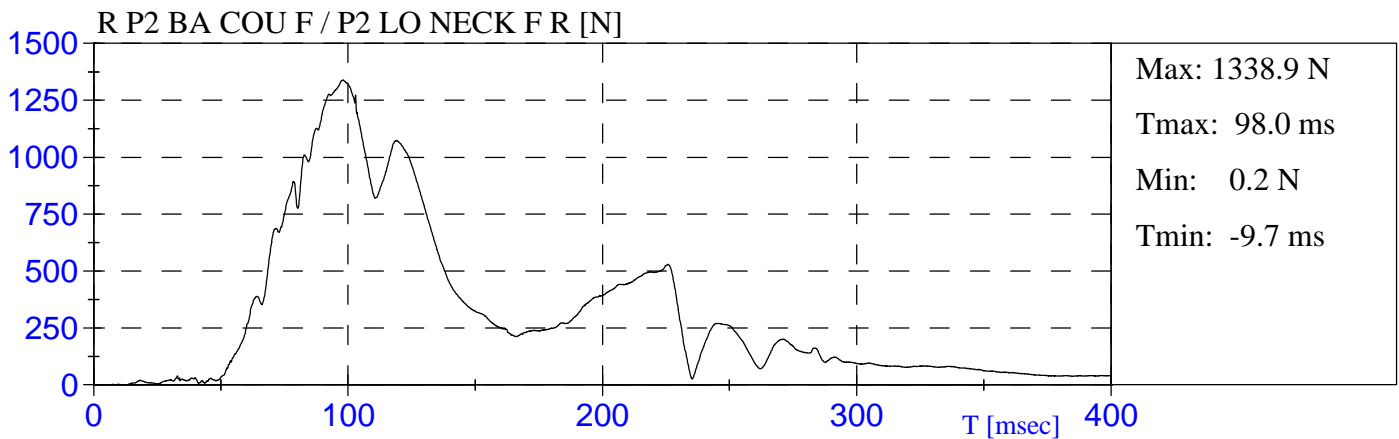
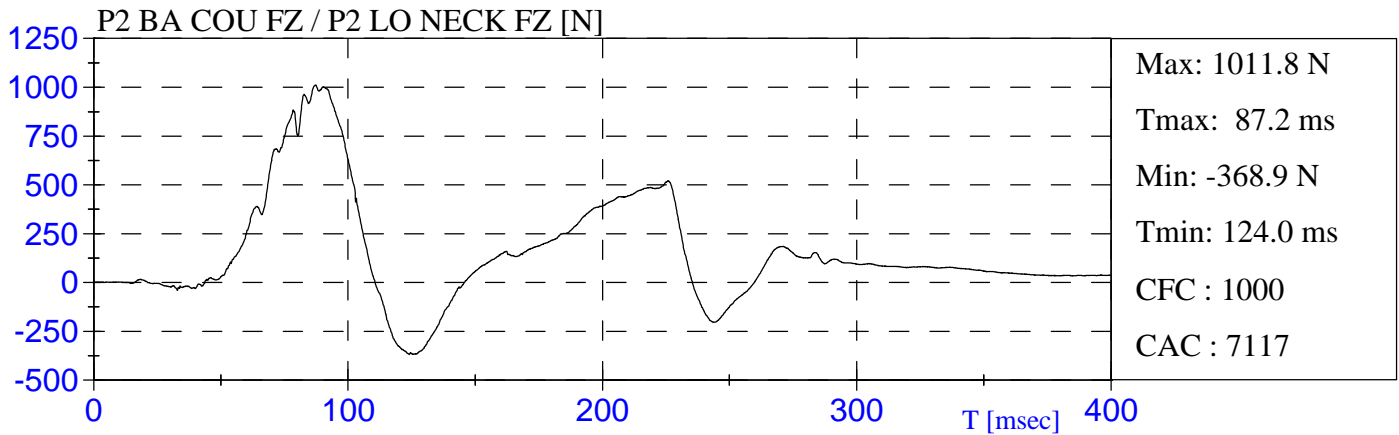
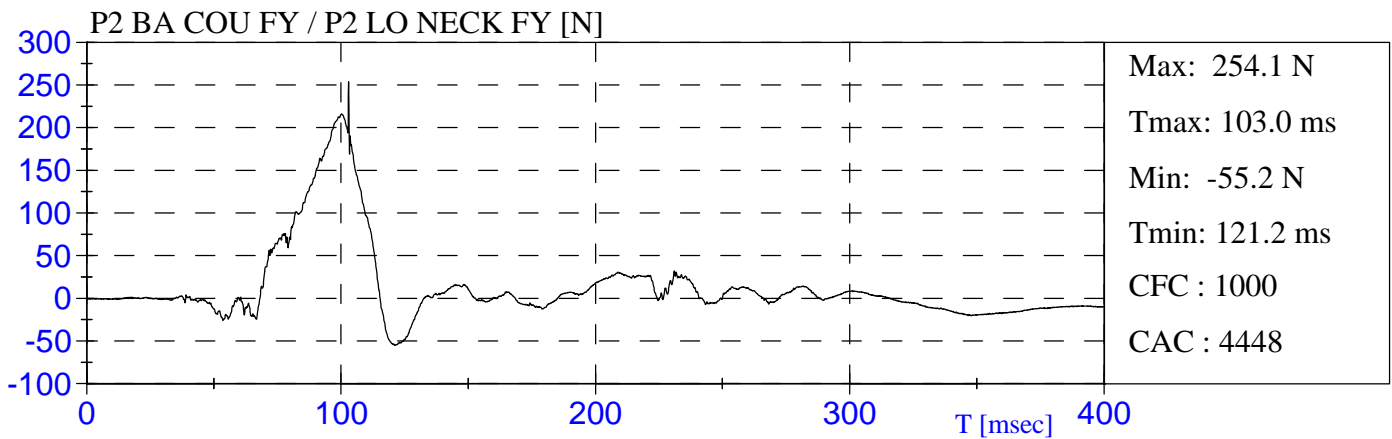
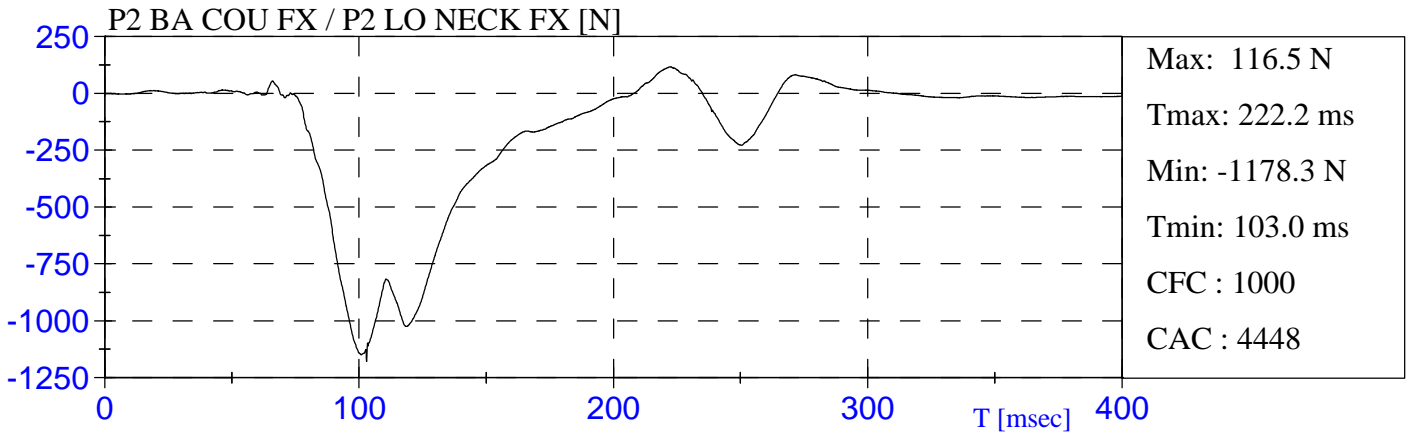




COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

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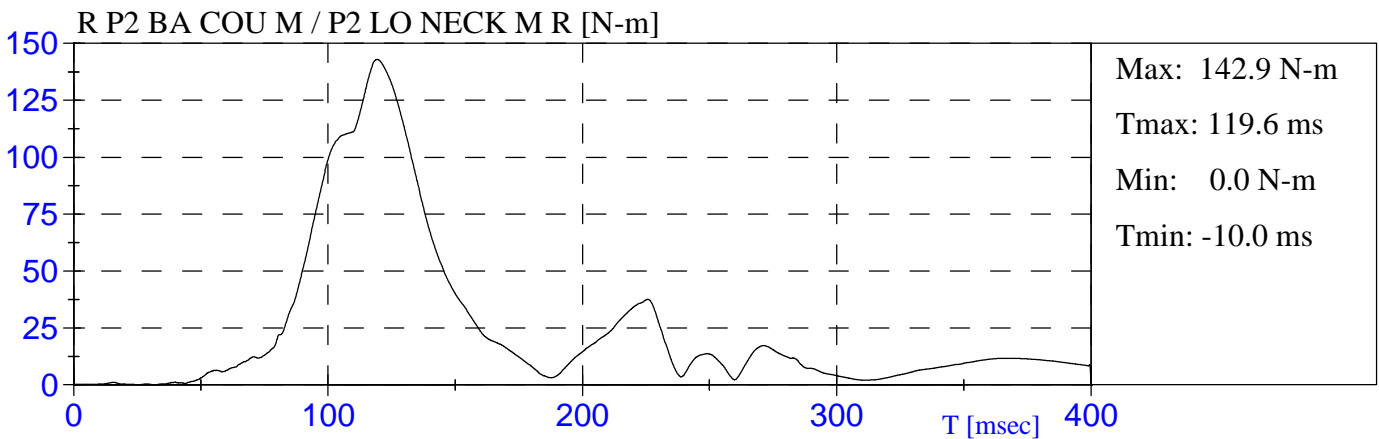
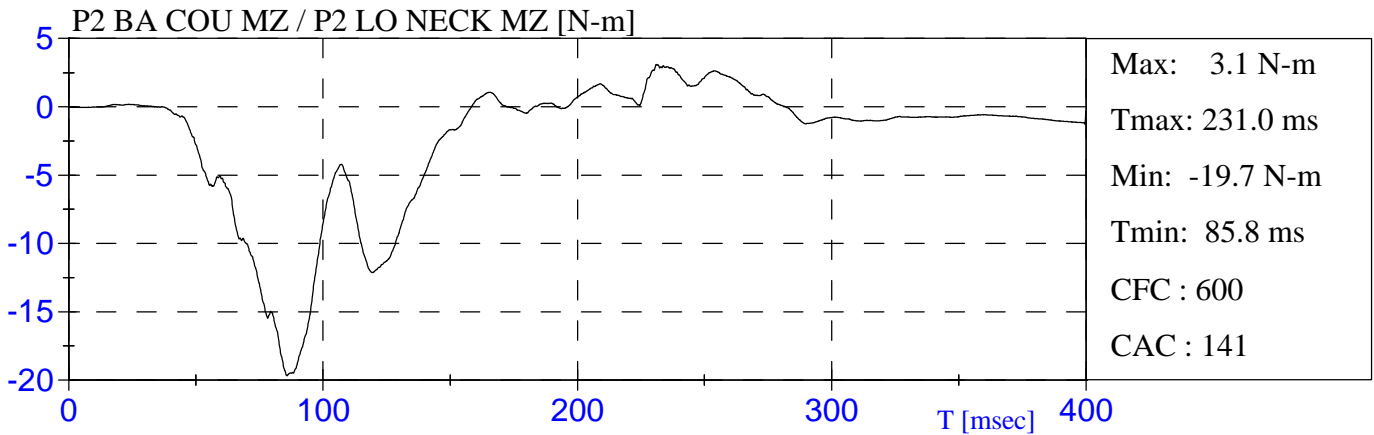
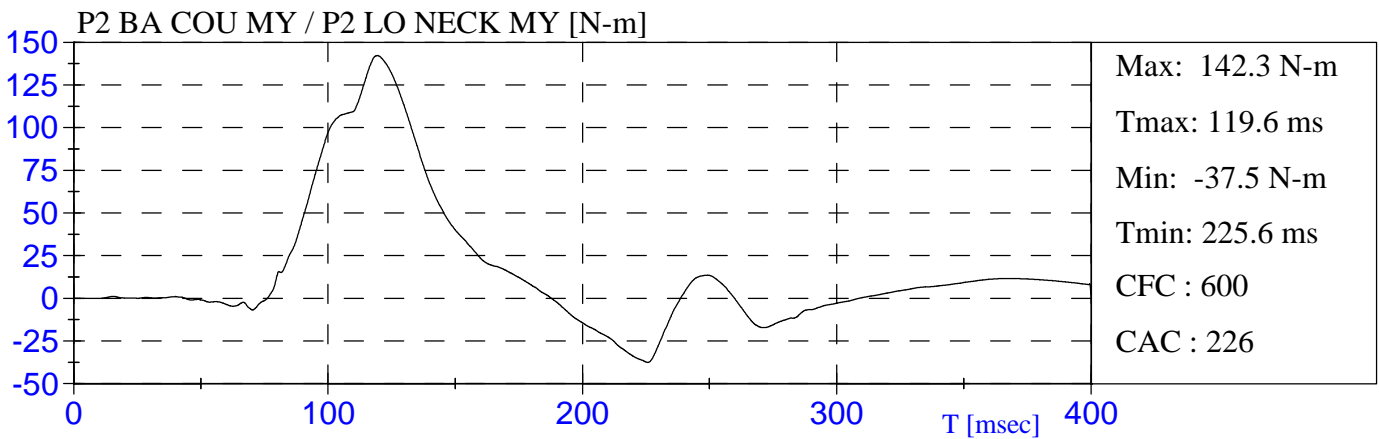
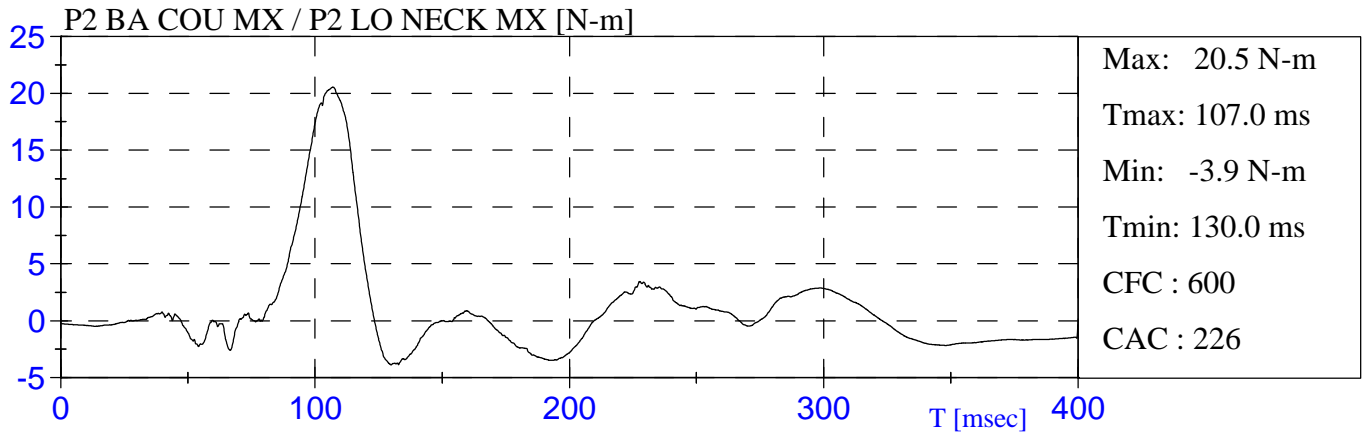




COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

N° TC / TC No.: TC04-119

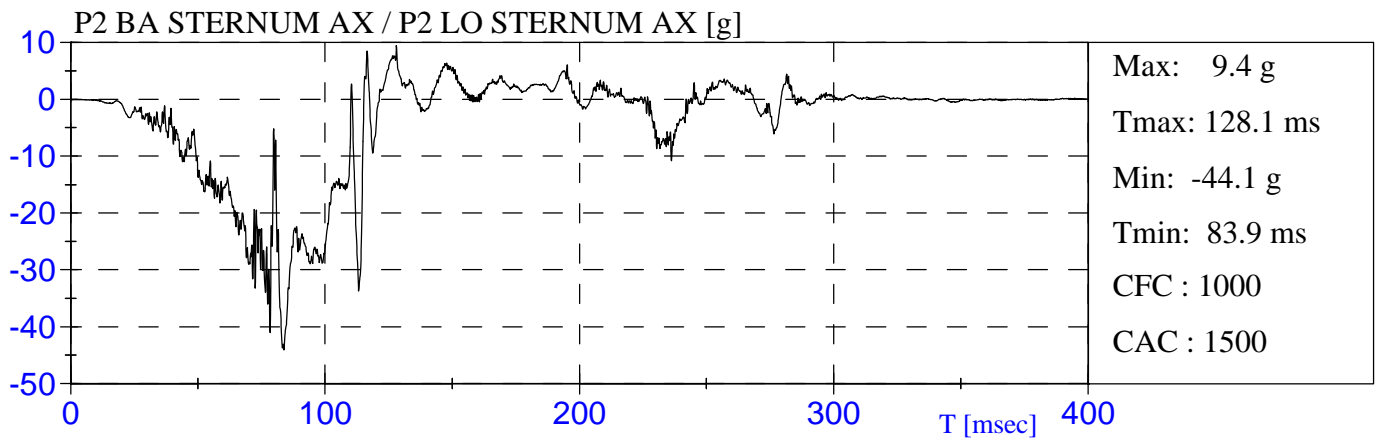
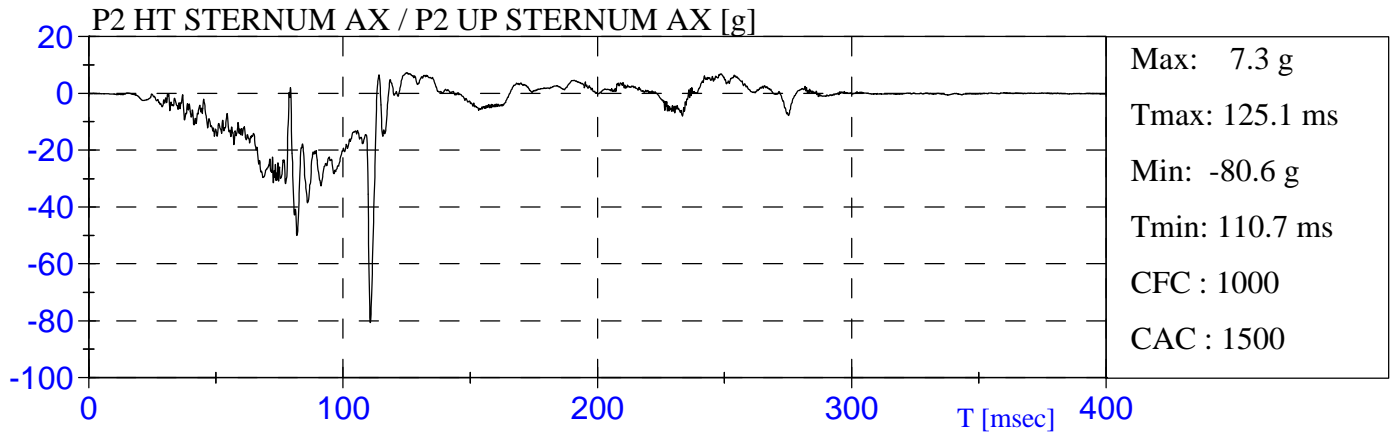




COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

N° TC / TC No.: TC04-119

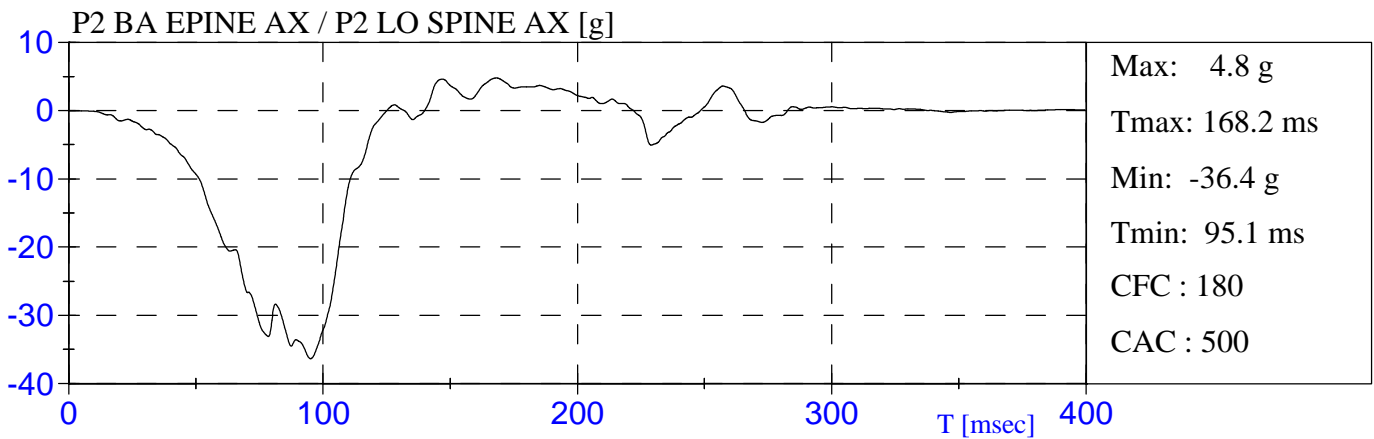
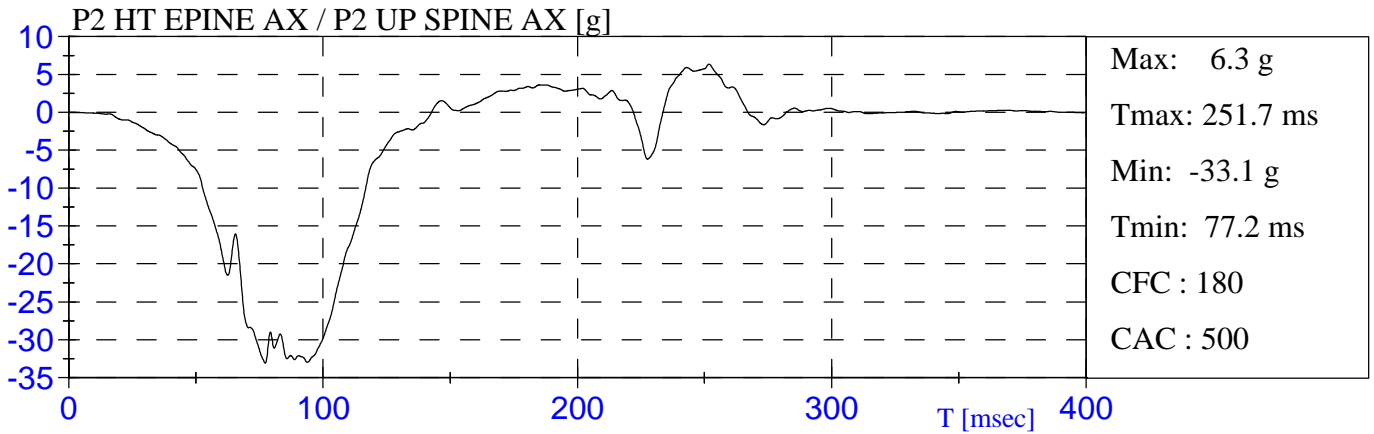




COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

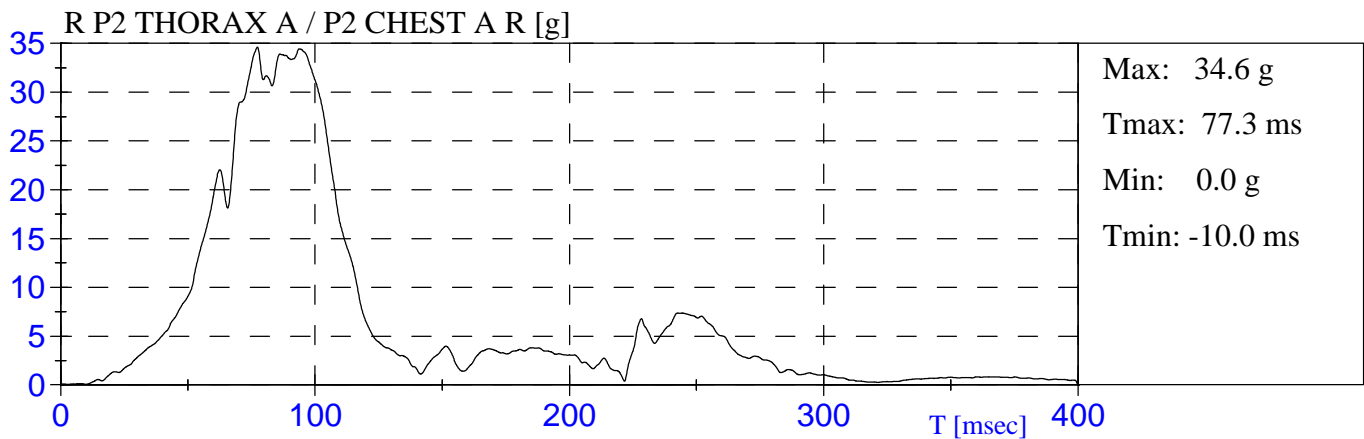
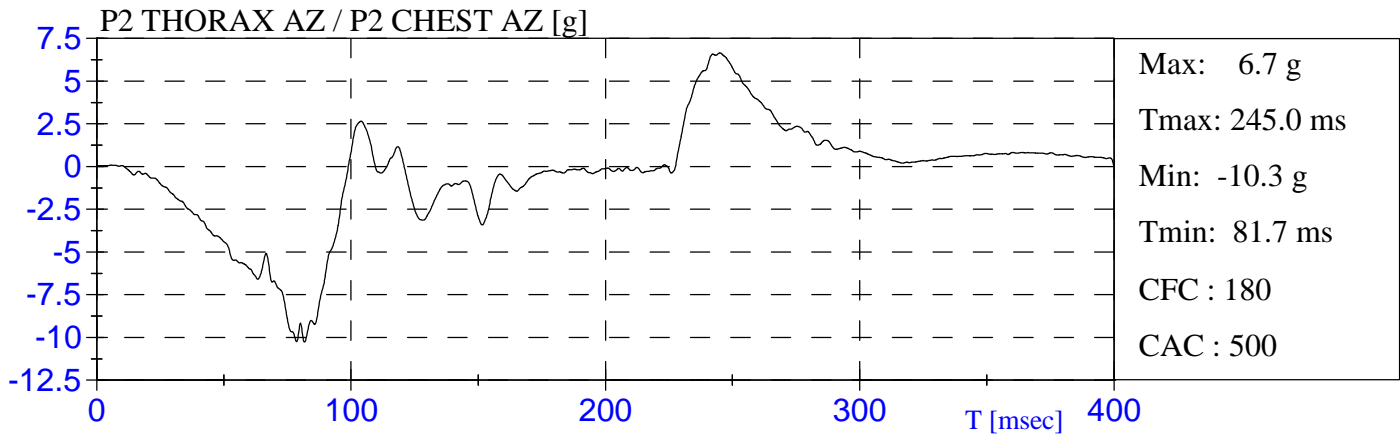
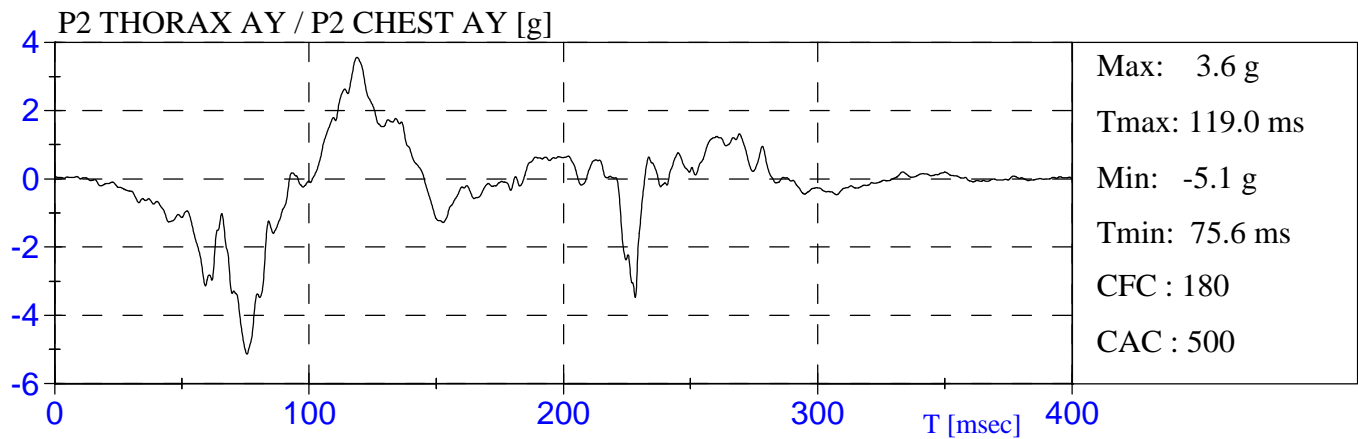
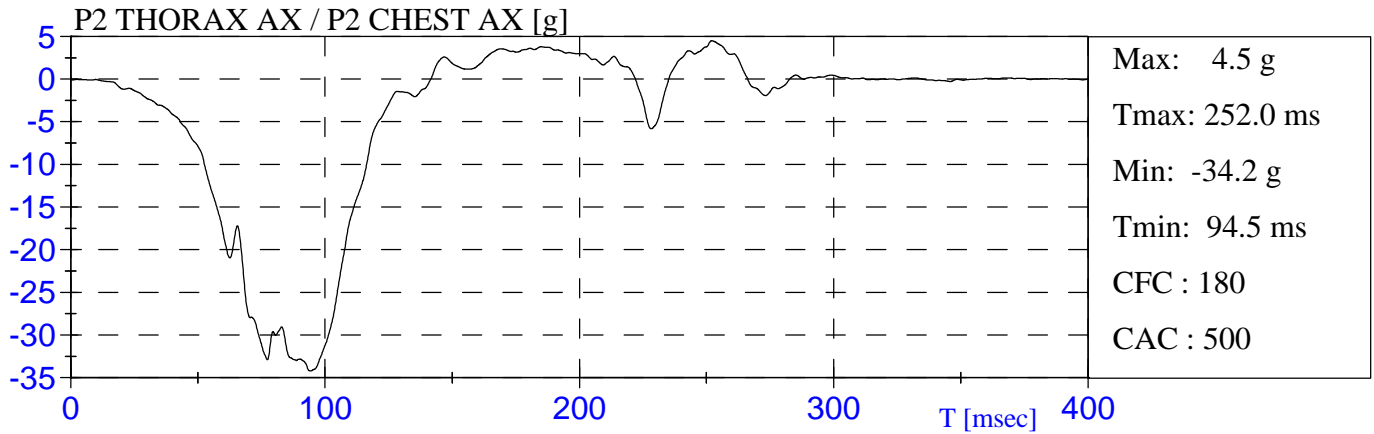
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COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27
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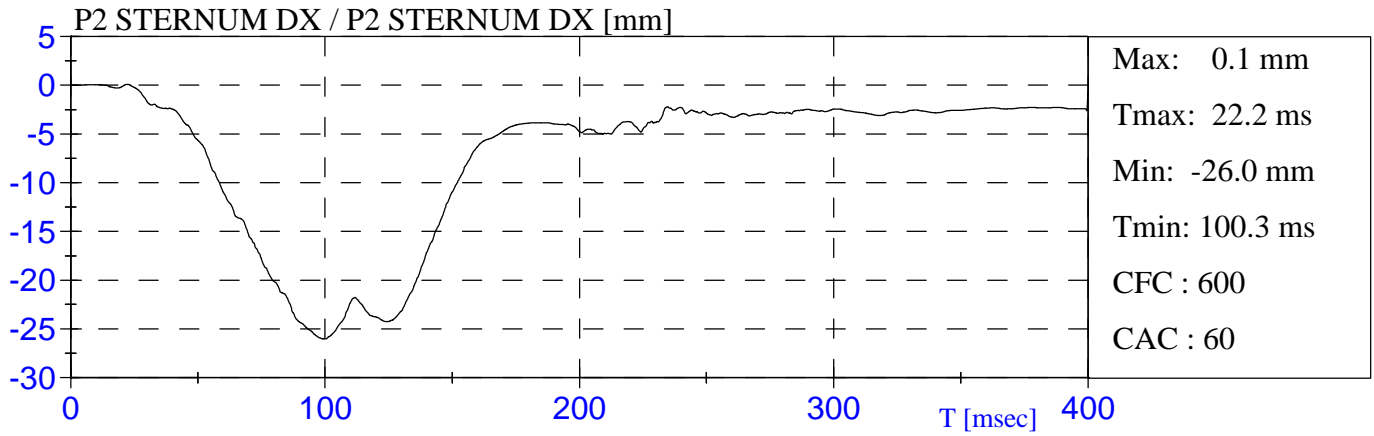




COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

N° TC / TC No.: TC04-119

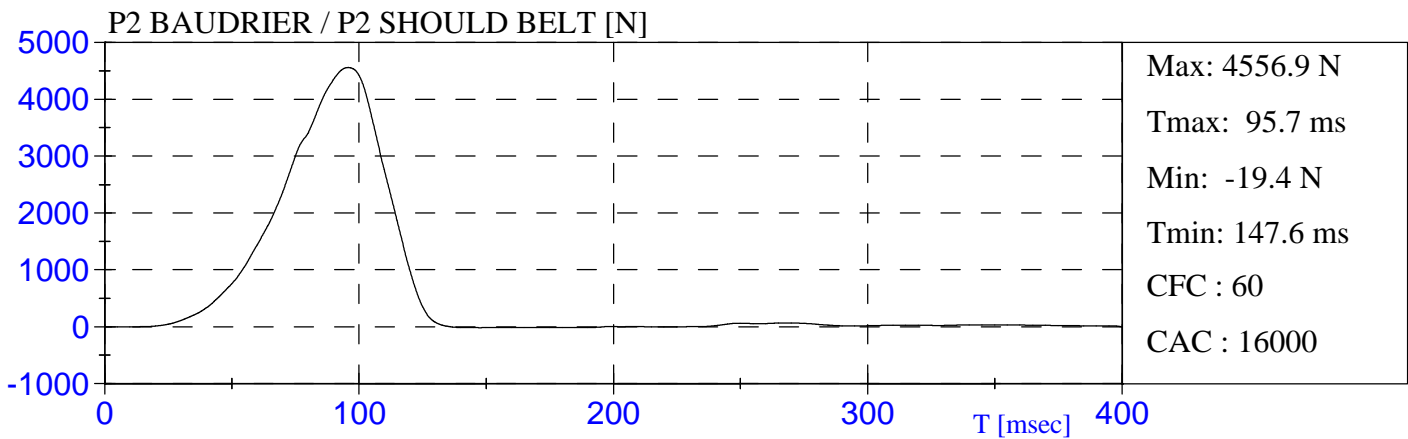
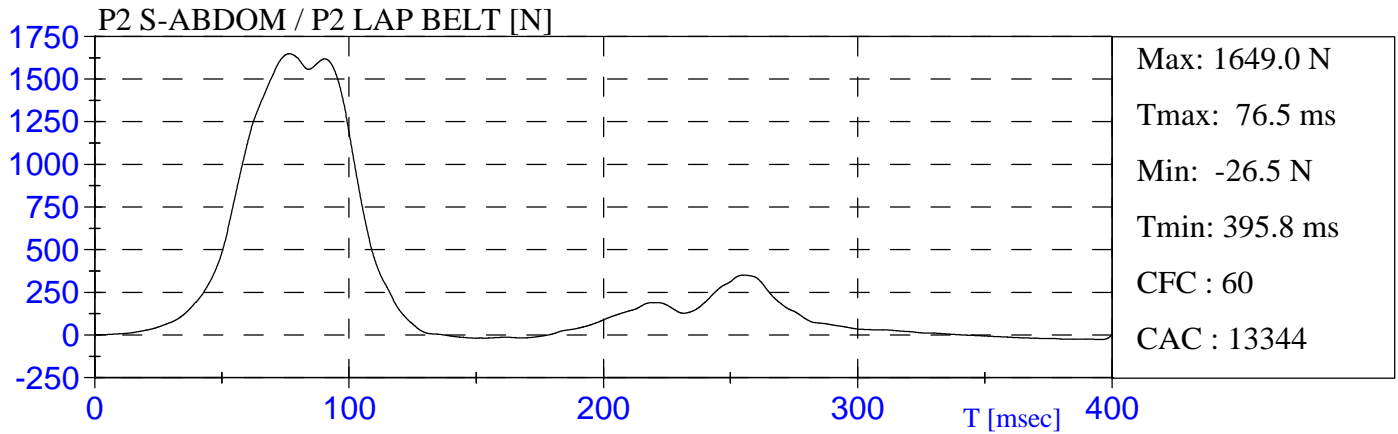


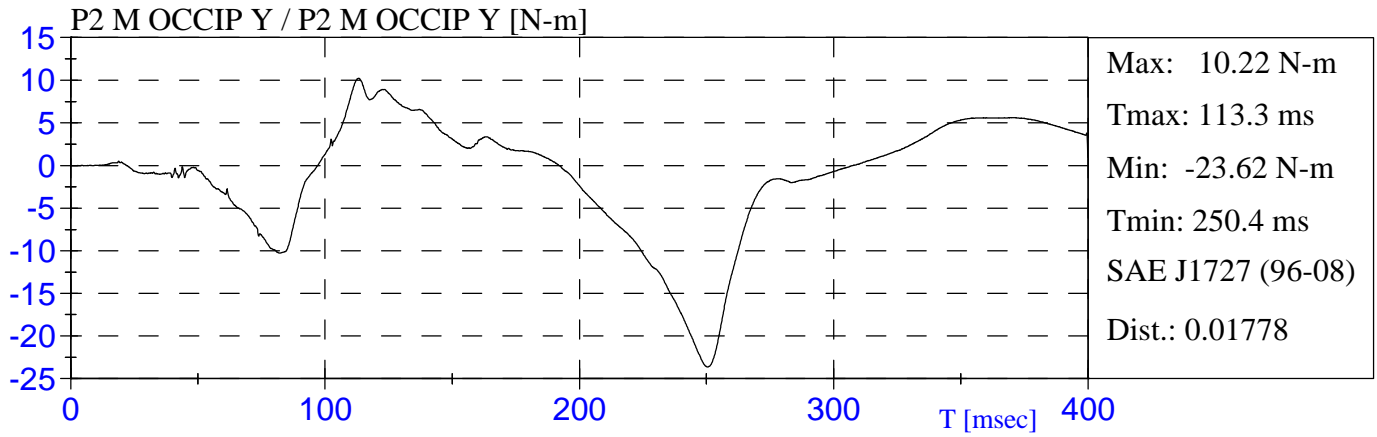


COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

N° TC / TC No.: TC04-119



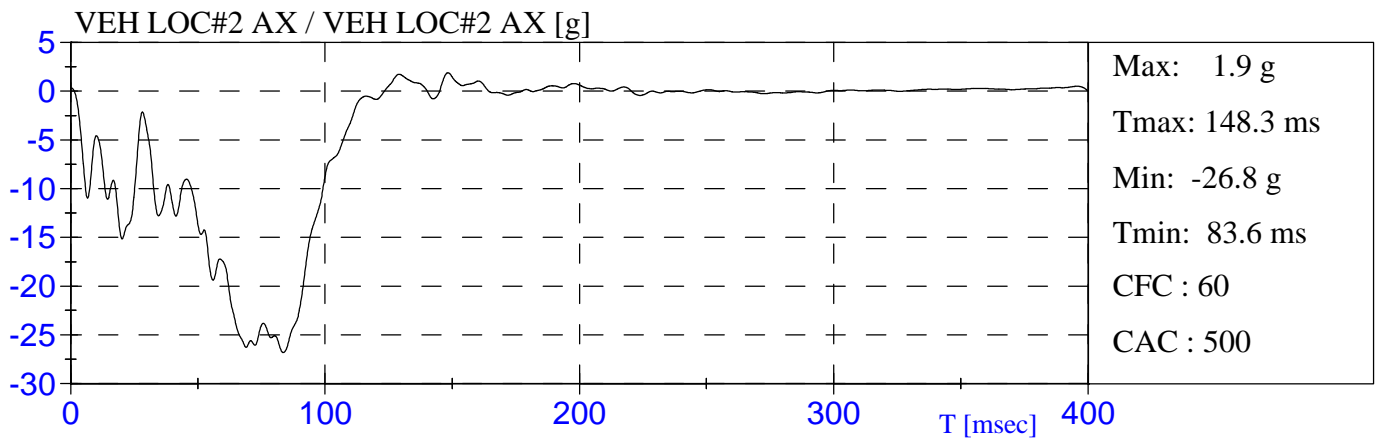
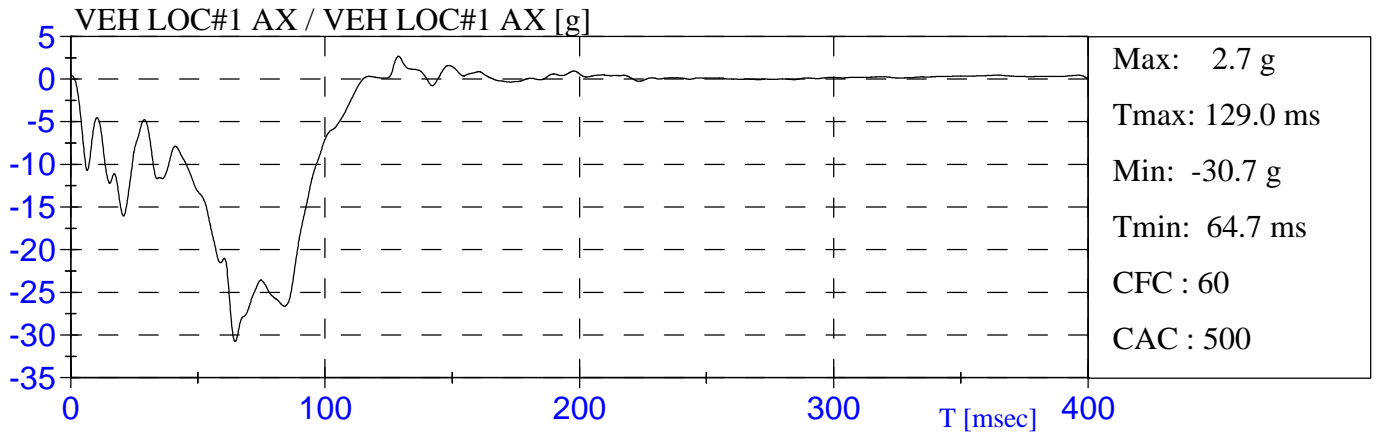




COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

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N° TC / TC No.: TC04-119

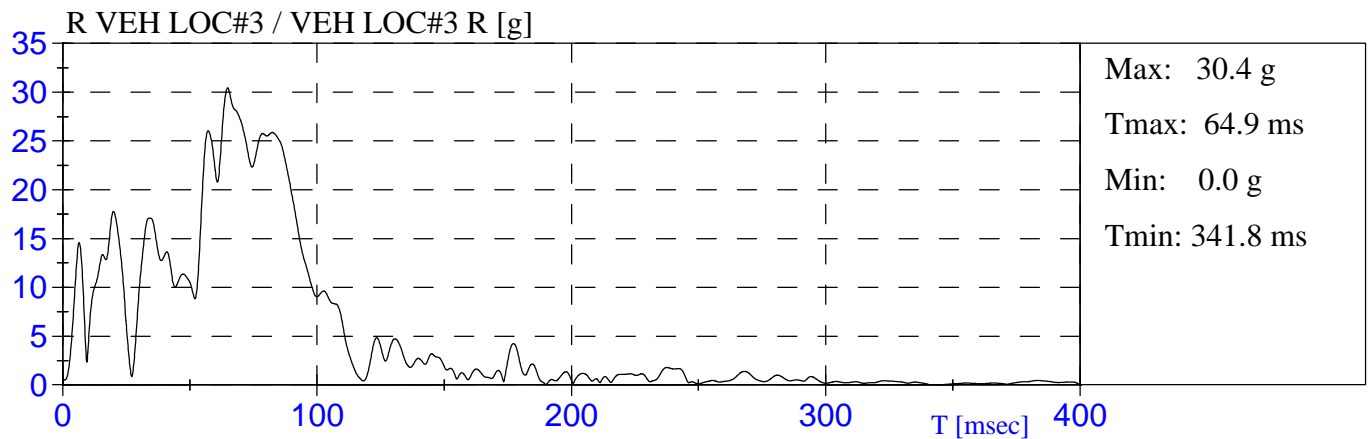
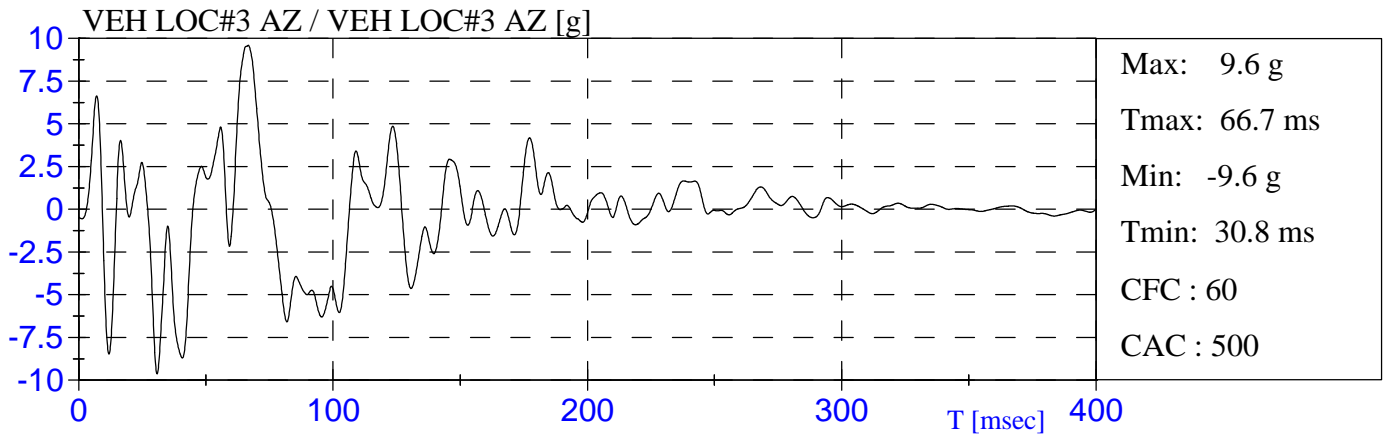
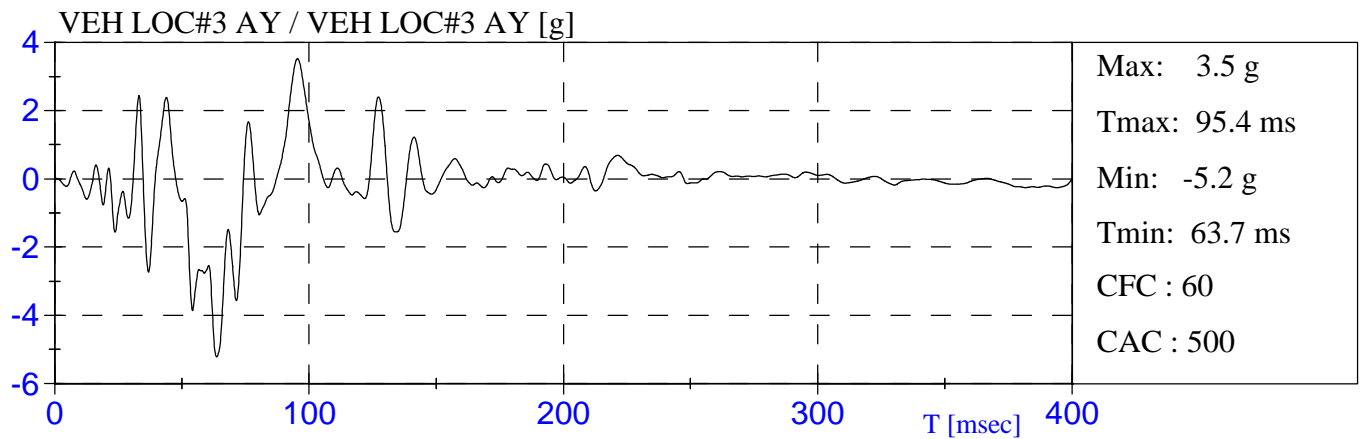
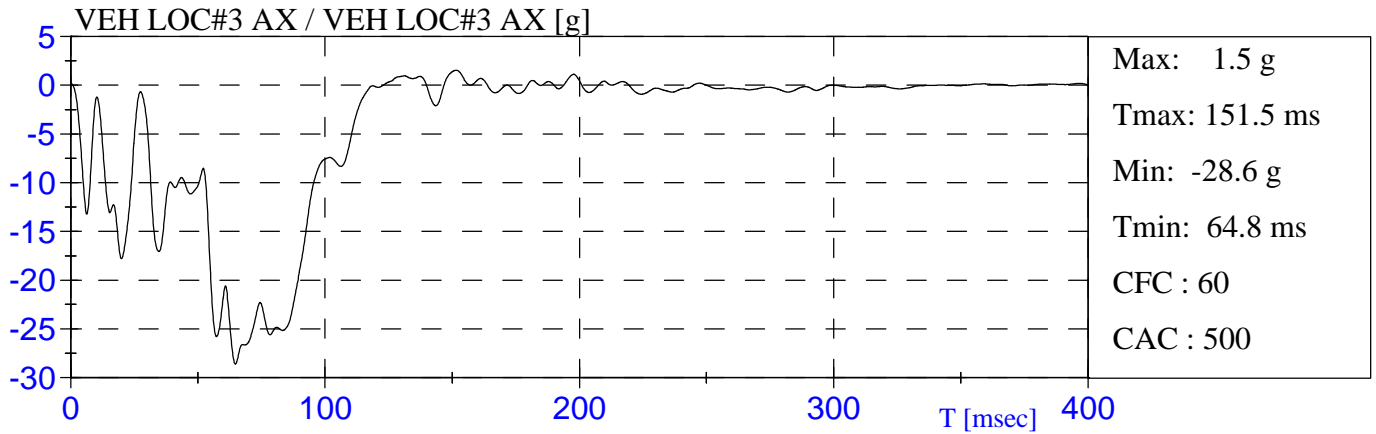




COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27

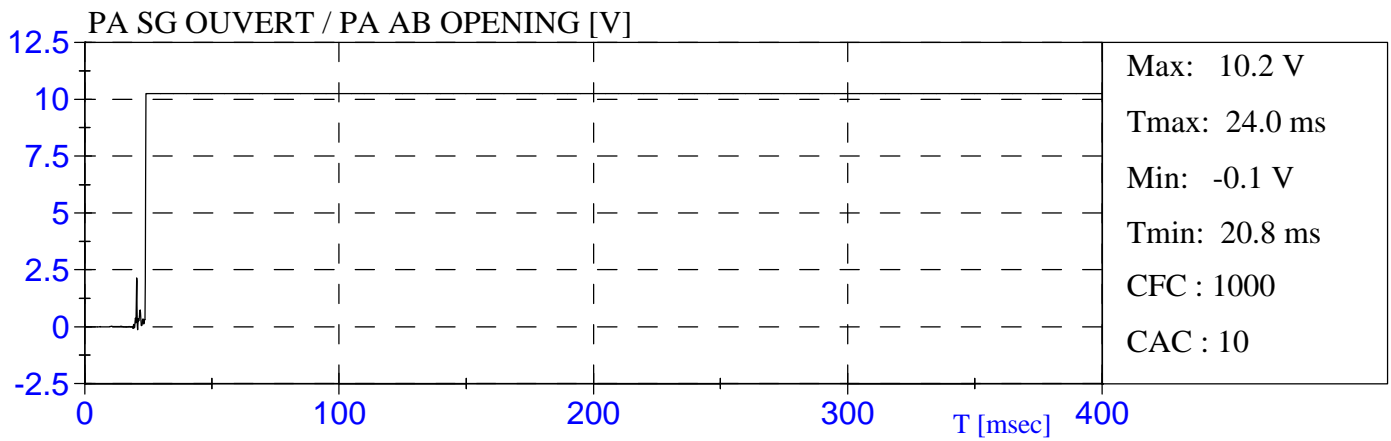
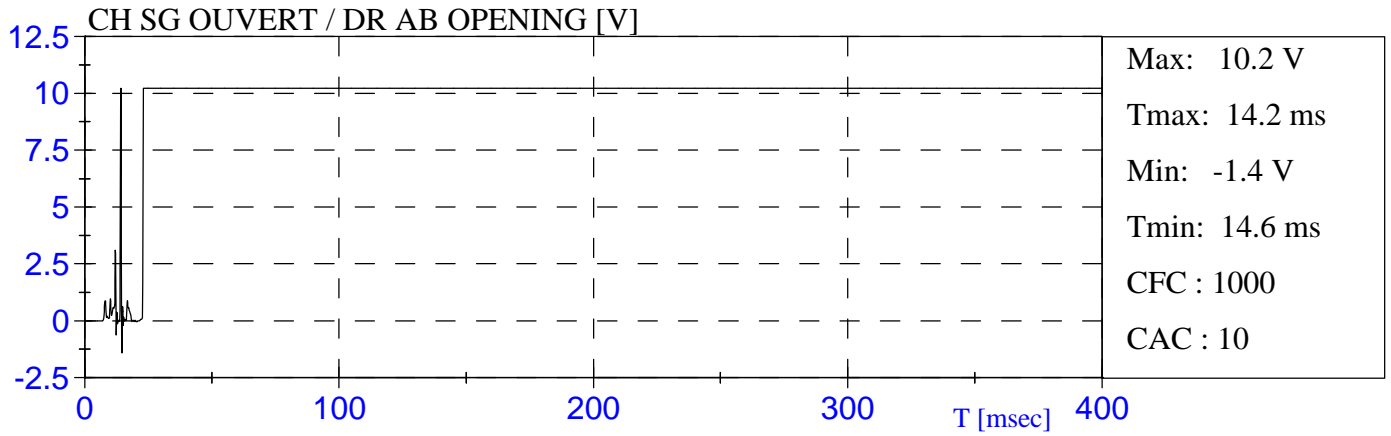
N° TC / TC No.: TC04-119





COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

Date: 2004-02-27
N° TC / TC No.: TC04-119

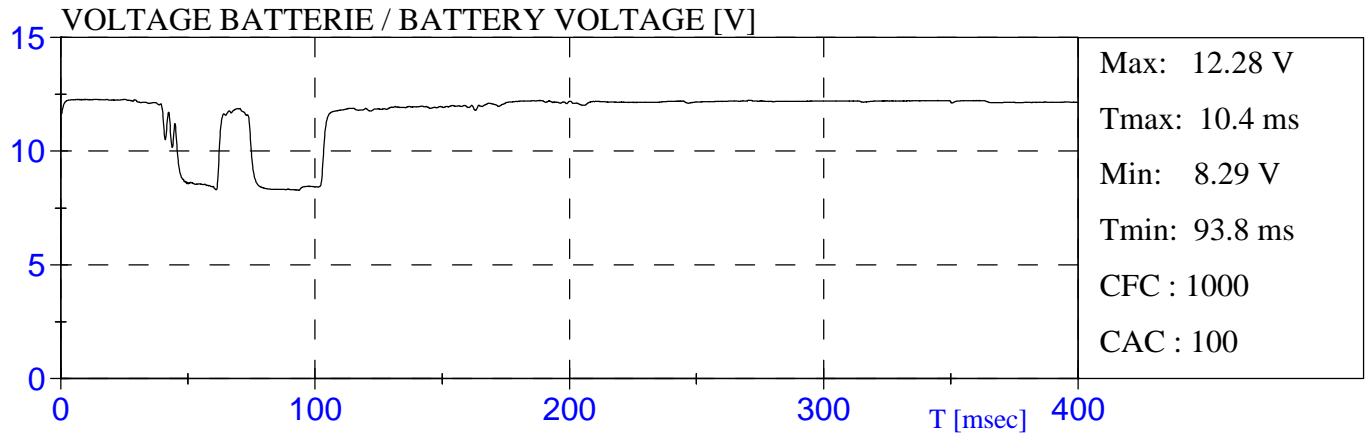


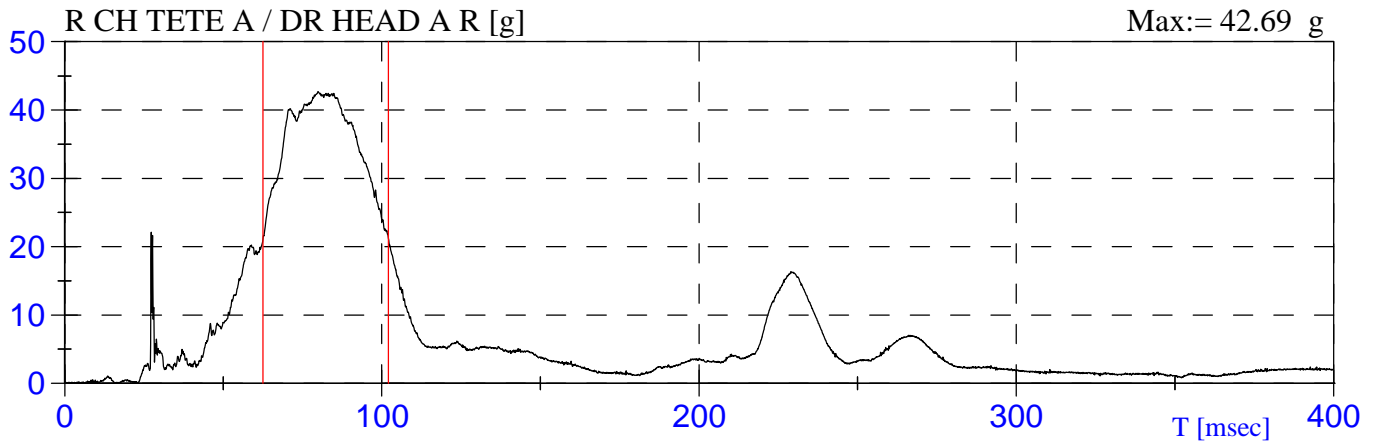


COLLISION FRONTALE
FRONTAL CRASH
GRAND PRIX 2004

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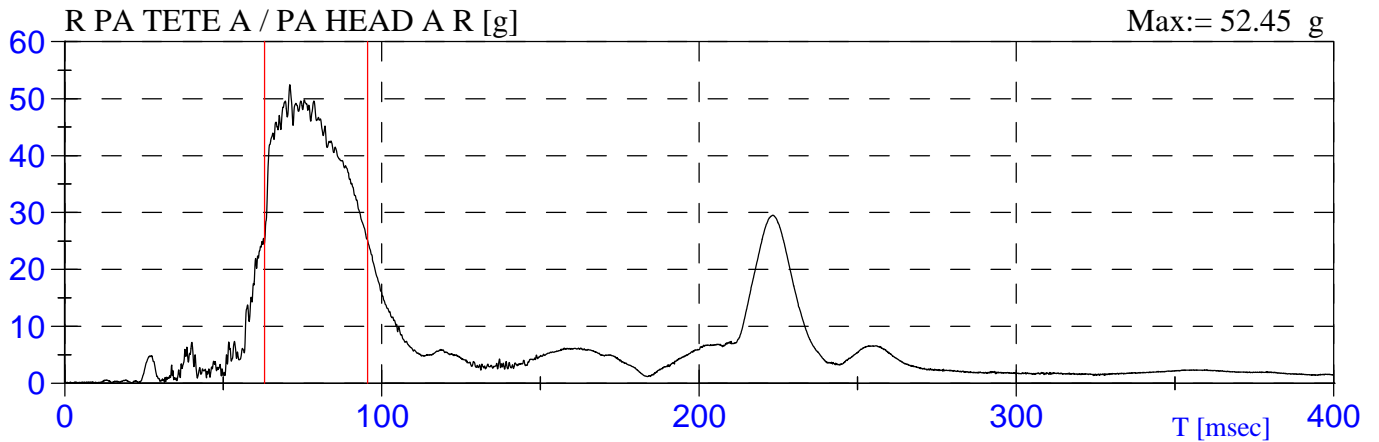




HEAD INJURY CRITERIA (HIC) *
CRITÈRE DE BLESSURE DE LA TÊTE

HIC:= 294	HIC(36ms):= 292	HIC(15ms):= 164
T1:= 62.6 ms	T1:= 63.7 ms	T1:= 73.3 ms
T2:= 102.1 ms	T2:= 99.7 ms	T2:= 88.3 ms

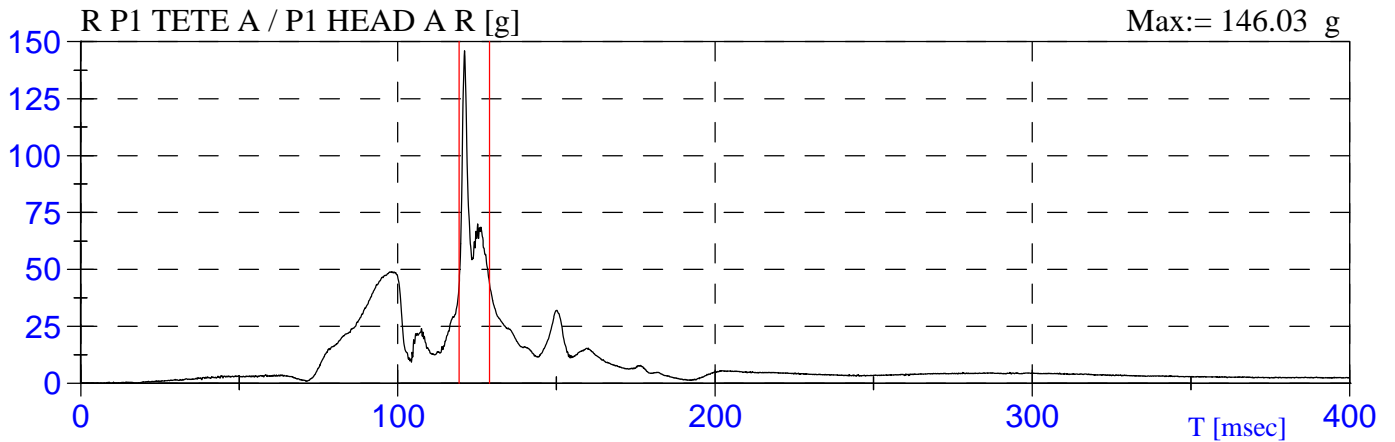
* Selon / According To: SAE J1727 96-08



HEAD INJURY CRITERIA (HIC) *
CRITÈRE DE BLESSURE DE LA TÊTE

HIC:= 371	HIC(36ms):= 371	HIC(15ms):= 237
T1:= 63.1 ms	T1:= 63.1 ms	T1:= 66.2 ms
T2:= 95.5 ms	T2:= 95.5 ms	T2:= 81.2 ms

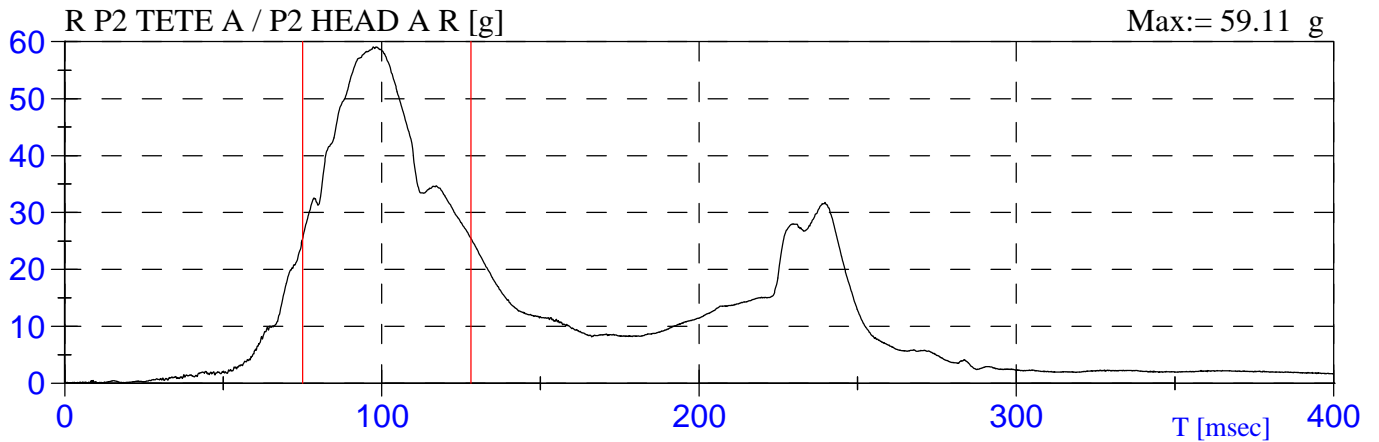
* Selon / According To: SAE J1727 96-08



HEAD INJURY CRITERIA (HIC) *
CRITÈRE DE BLESSURE DE LA TÊTE

HIC:= 427	HIC(36ms):= 427	HIC(15ms):= 427
T1:= 119.3 ms	T1:= 119.3 ms	T1:= 119.3 ms
T2:= 128.9 ms	T2:= 128.9 ms	T2:= 128.9 ms

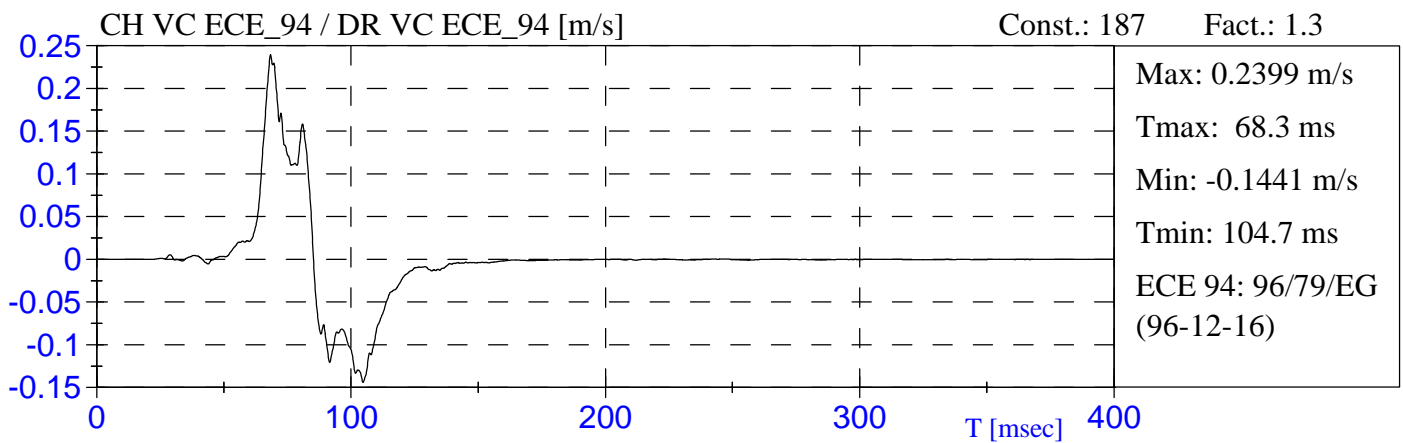
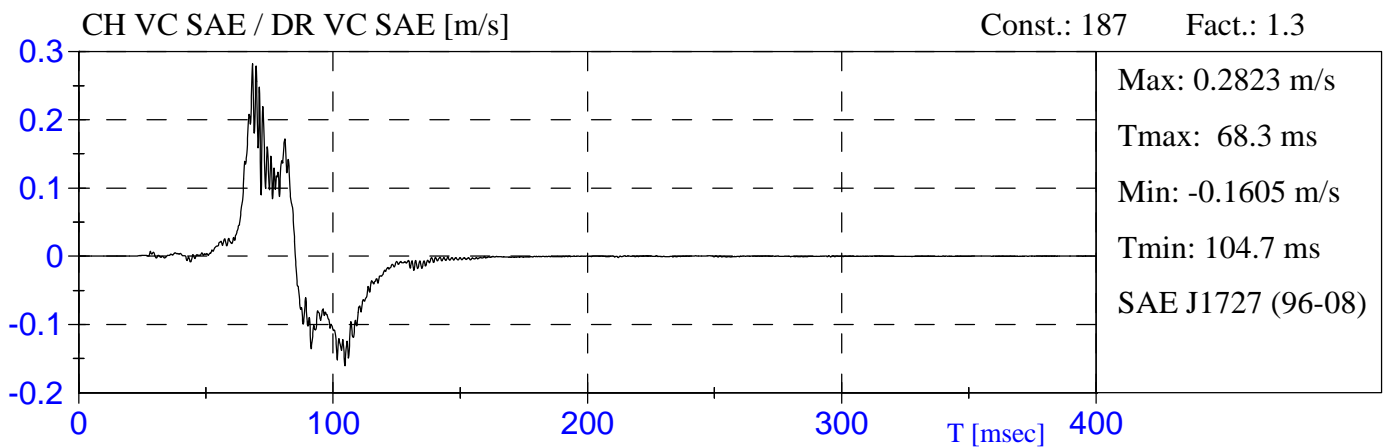
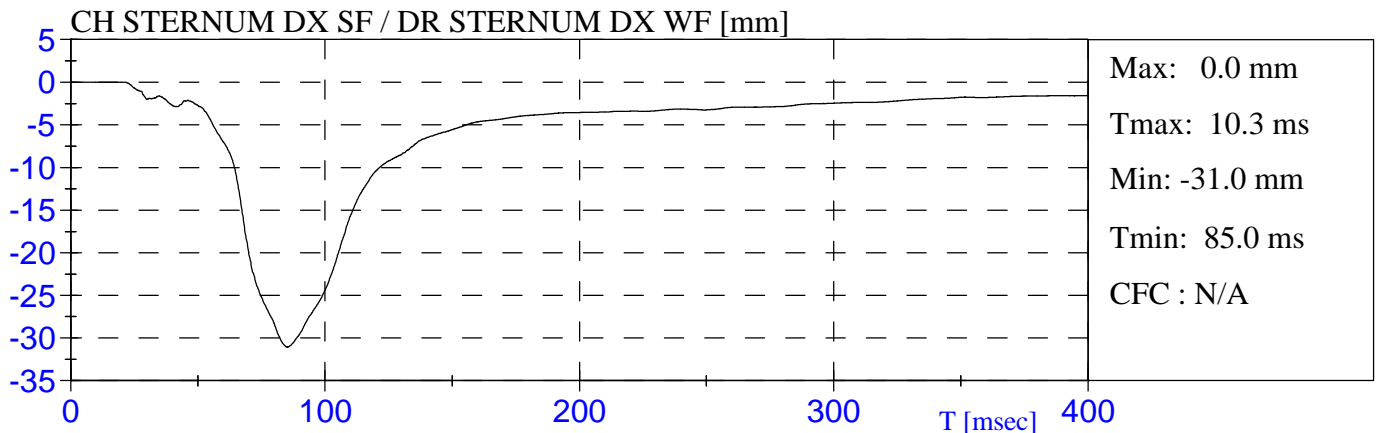
* Selon / According To: SAE J1727 96-08

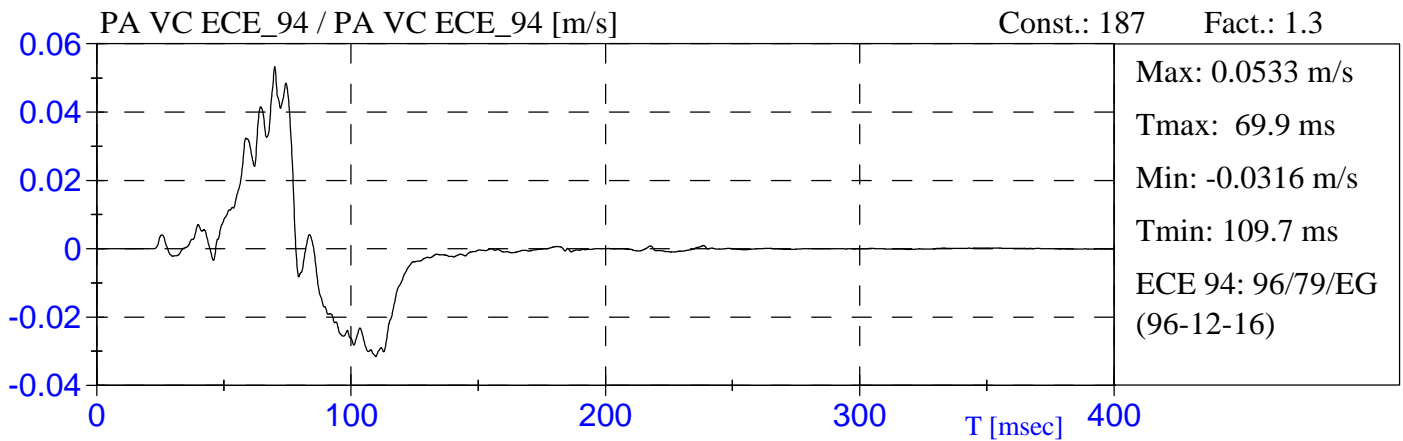
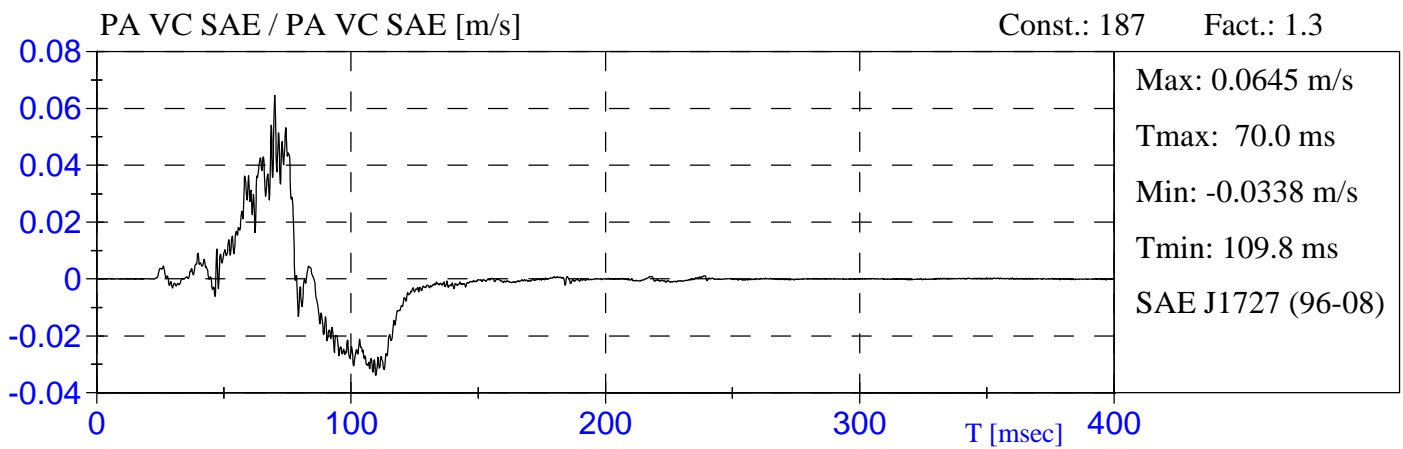
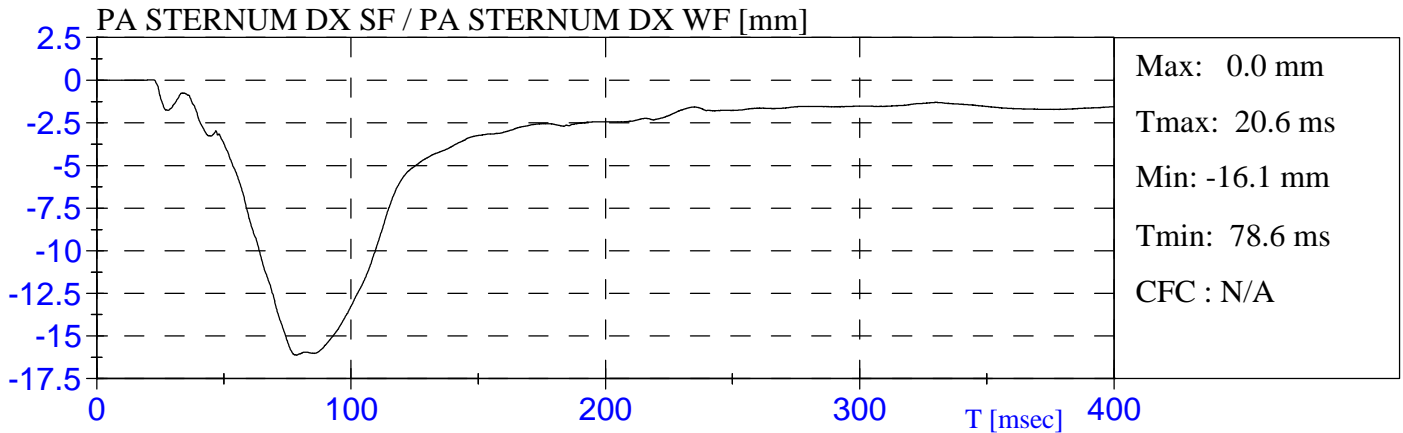


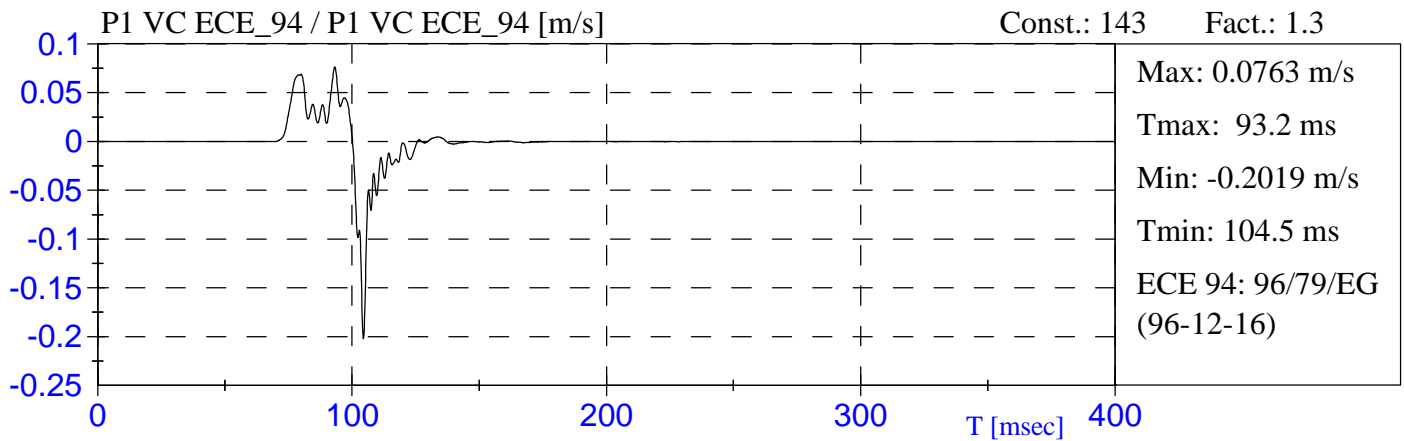
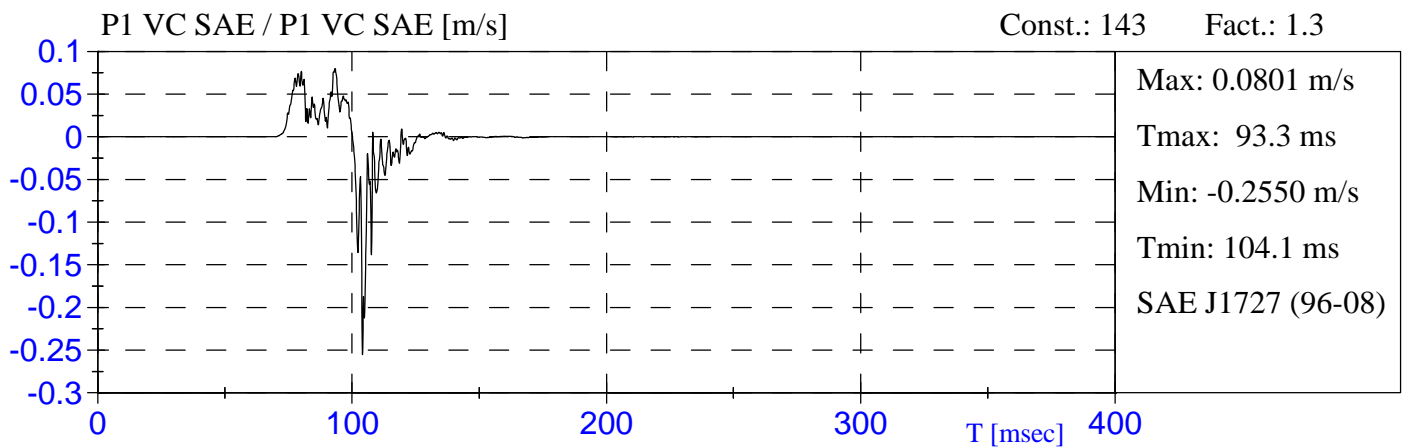
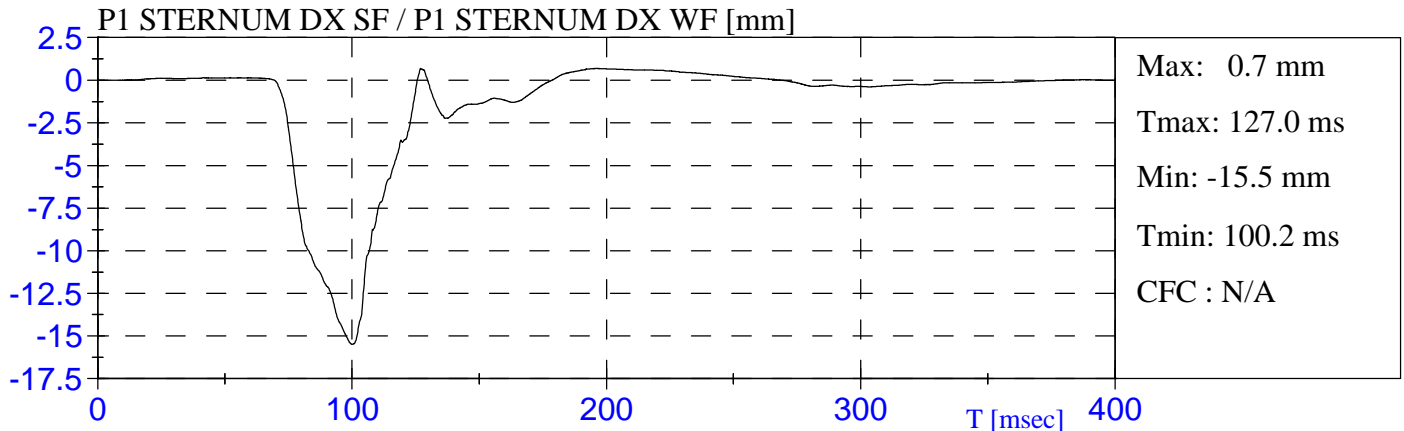
HEAD INJURY CRITERIA (HIC) *
CRITÈRE DE BLESSURE DE LA TÊTE

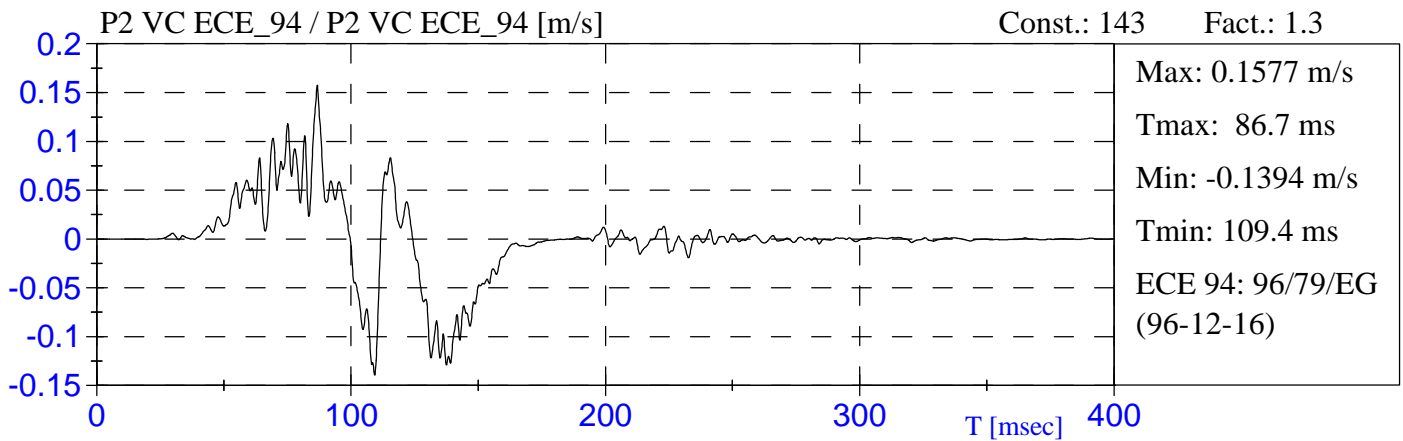
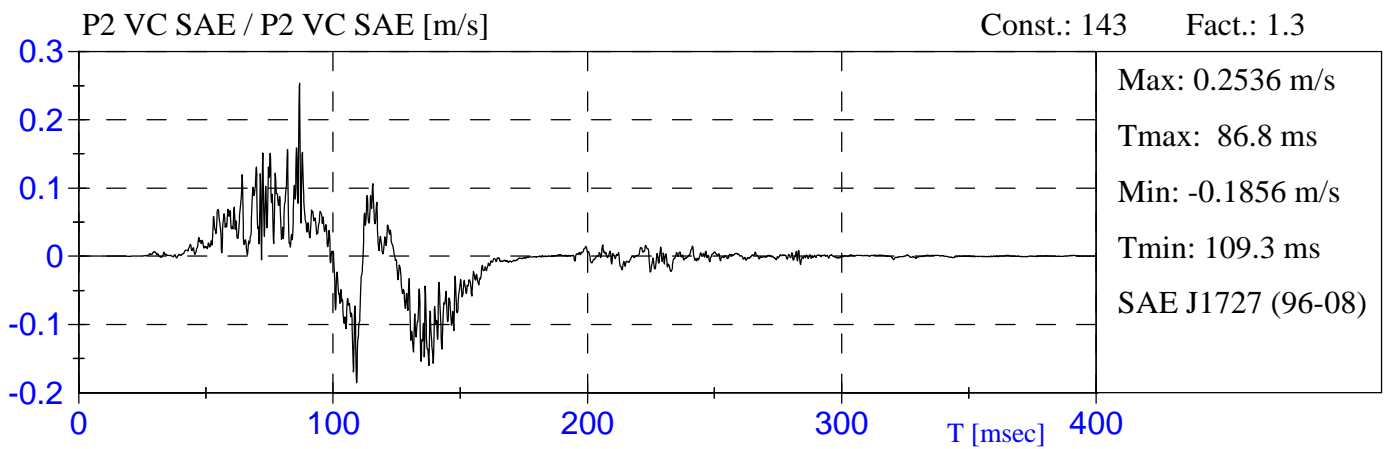
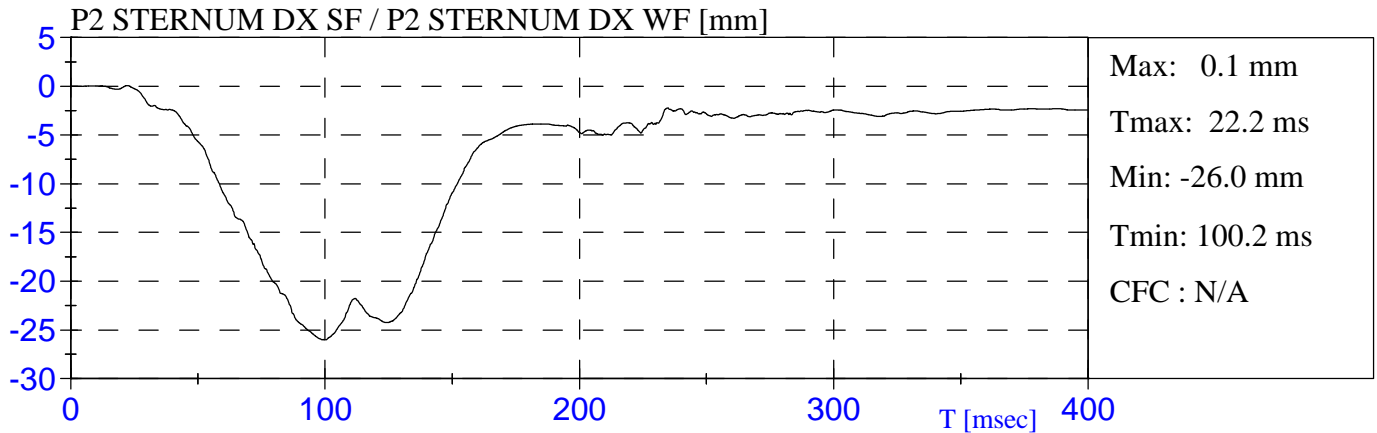
HIC:= 620	HIC(36ms):= 576	HIC(15ms):= 366
T1:= 75.1 ms	T1:= 81.1 ms	T1:= 89.5 ms
T2:= 128.1 ms	T2:= 117.1 ms	T2:= 104.5 ms

* Selon / According To: SAE J1727 96-08









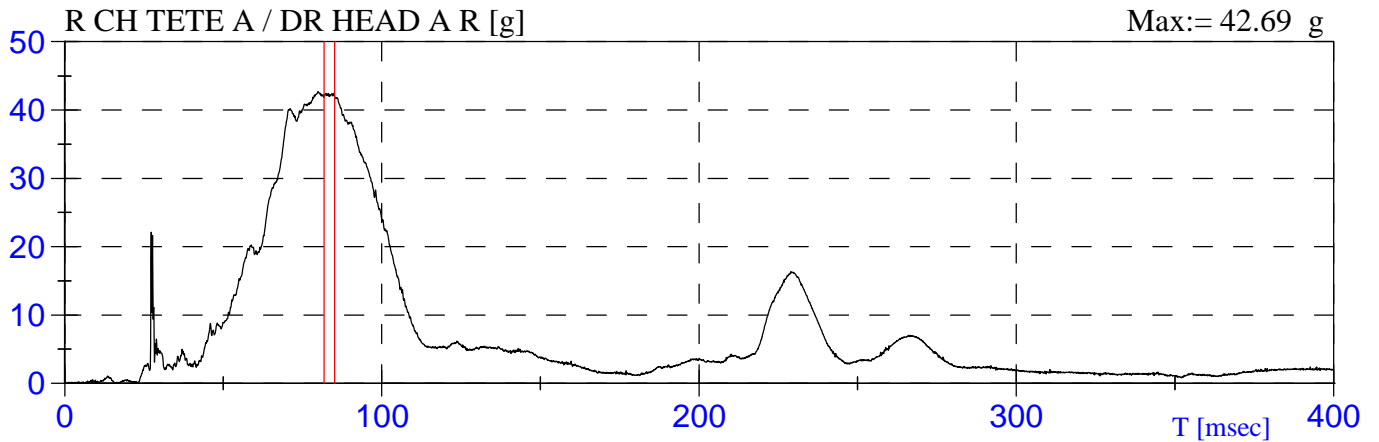


CLIP 3ms

Date: 2004-02-27

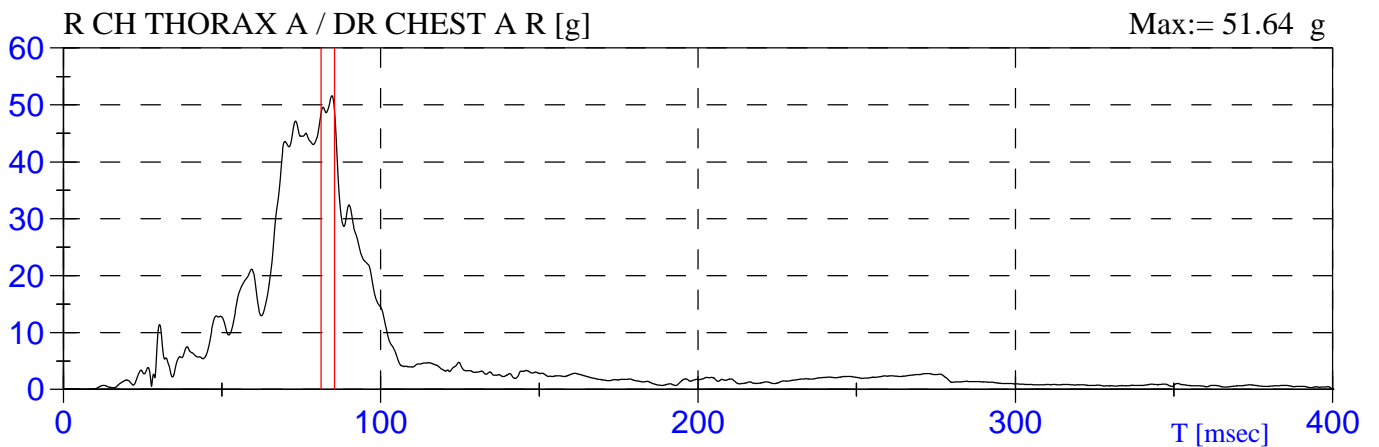
GRAND PRIX 2004

N° TC / TC No.: TC04-119



CLIP 3ms *

Acc. := 42.01 g	T1:= 81.8 ms	T2:= 85.1 ms
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CLIP 3ms *

Acc. := 48.65 g	T1:= 81.2 ms	T2:= 85.5 ms
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* Selon / According To: NHTSA CLIP VERSION 2.1 5/95

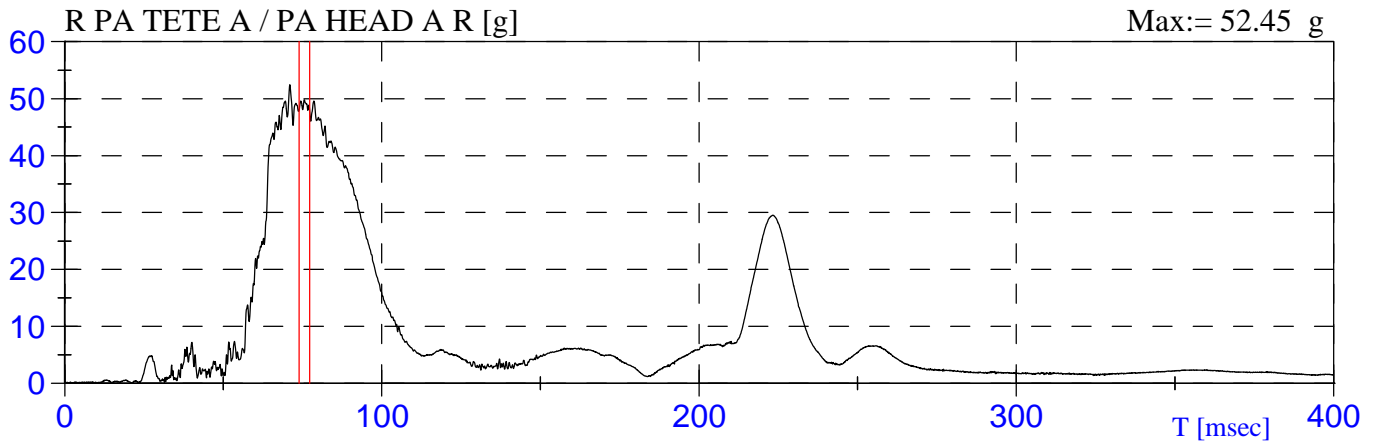


CLIP 3ms

Date: 2004-02-27

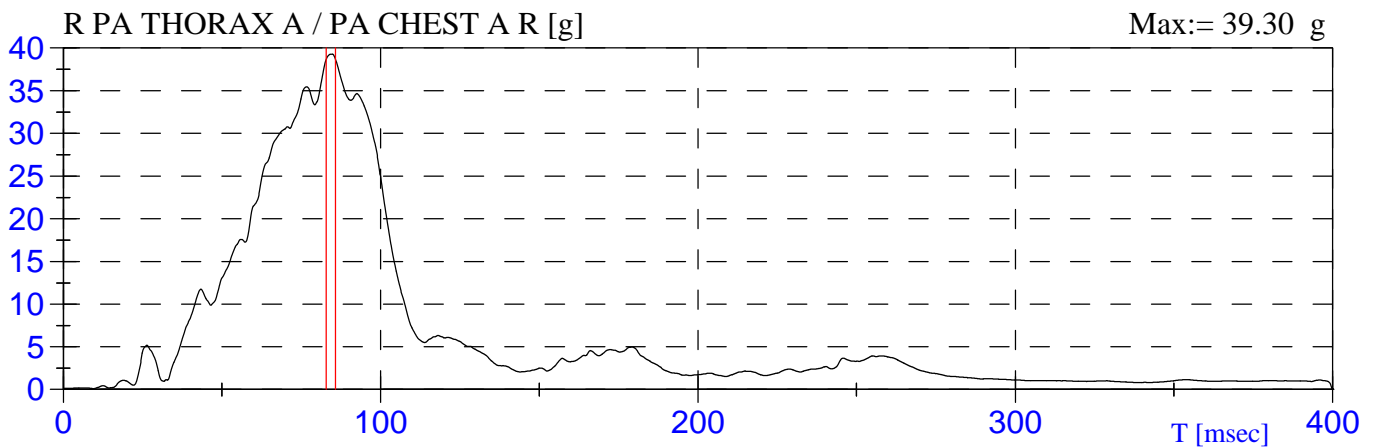
GRAND PRIX 2004

N° TC / TC No.: TC04-119



CLIP 3ms *

Acc. := 47.94 g	T1:= 73.9 ms	T2:= 77.3 ms
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CLIP 3ms *

Acc. := 38.69 g	T1:= 82.8 ms	T2:= 85.8 ms
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* Selon / According To: NHTSA CLIP VERSION 2.1 5/95

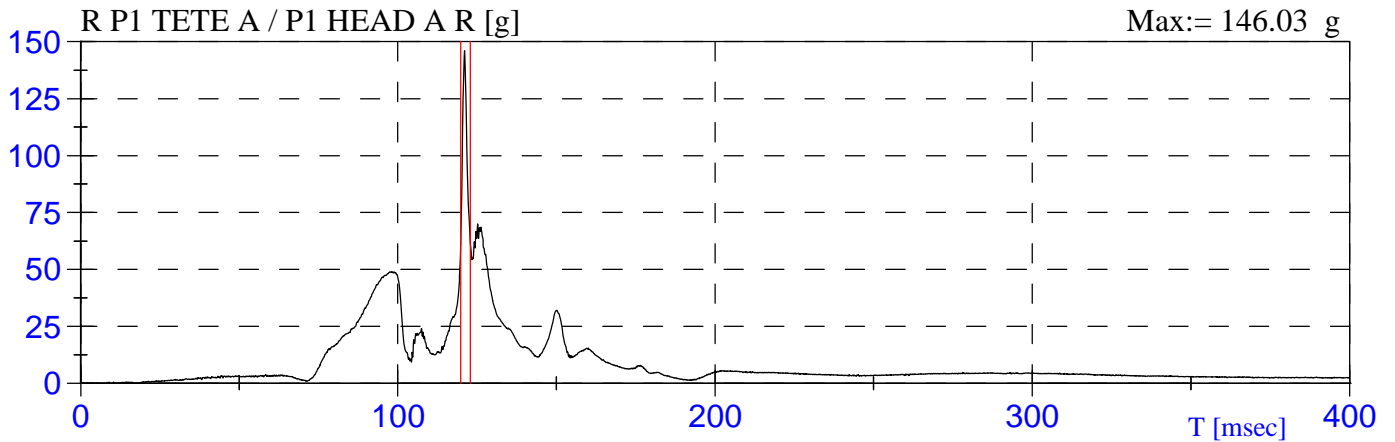


CLIP 3ms

Date: 2004-02-27

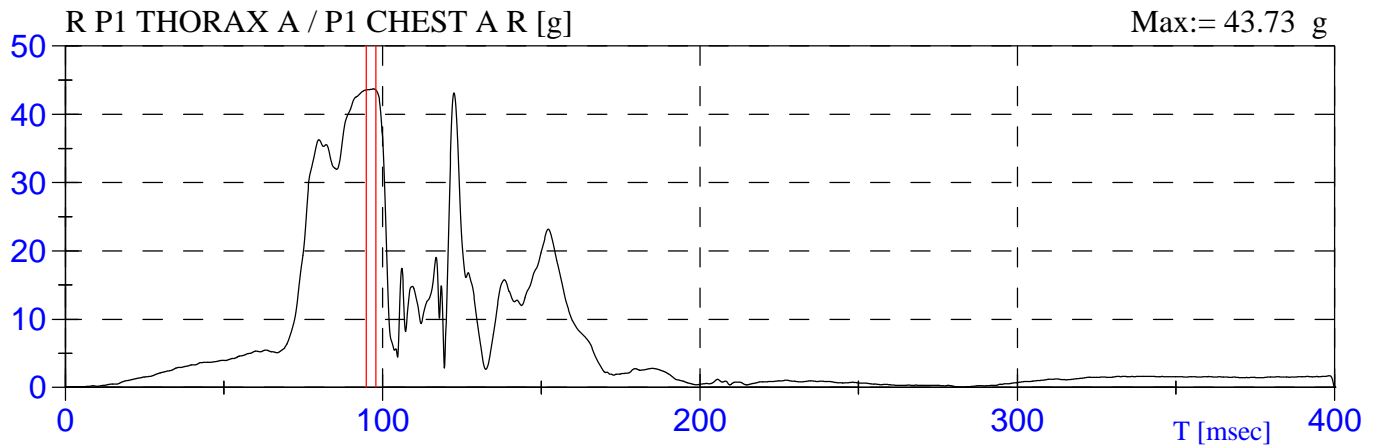
GRAND PRIX 2004

N° TC / TC No.: TC04-119



CLIP 3ms *

Acc. := 61.35 g	T1:= 119.9 ms	T2:= 122.9 ms
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CLIP 3ms *

Acc. := 43.56 g	T1:= 94.9 ms	T2:= 97.9 ms
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* Selon / According To: NHTSA CLIP VERSION 2.1 5/95

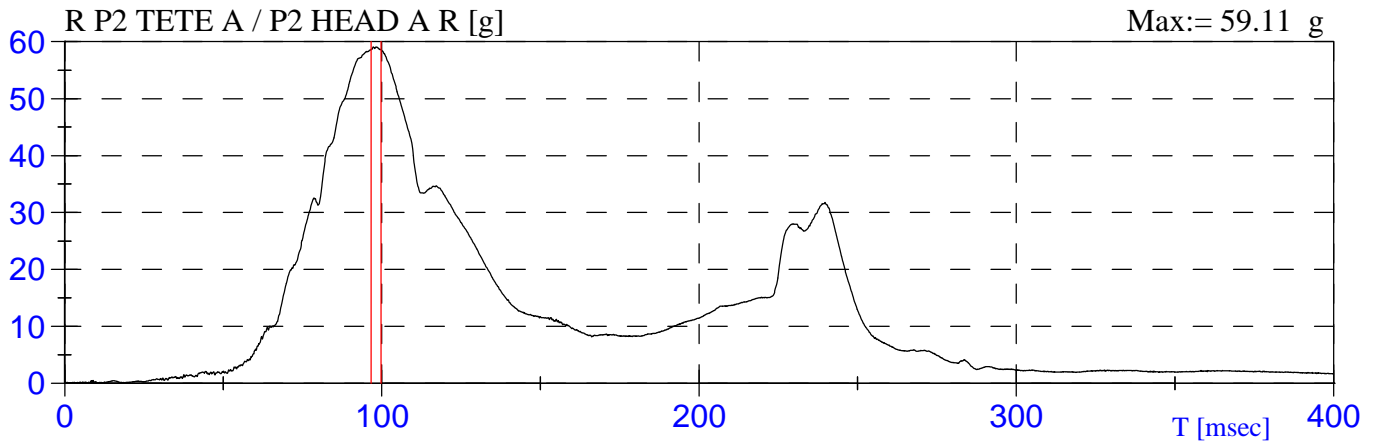


CLIP 3ms

Date: 2004-02-27

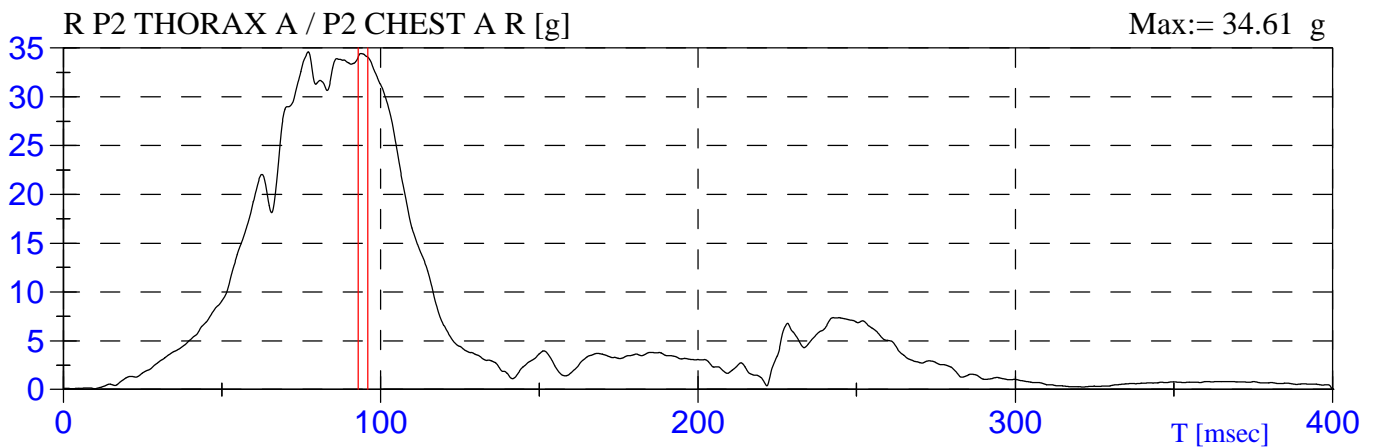
GRAND PRIX 2004

N° TC / TC No.: TC04-119



CLIP 3ms *

Acc. := 58.63 g	T1:= 96.6 ms	T2:= 99.7 ms
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CLIP 3ms *

Acc. := 34.08 g	T1:= 93.0 ms	T2:= 96.0 ms
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* Selon / According To: NHTSA CLIP VERSION 2.1 5/95

INDEX DU TIBIA *
TIBIA INDEX *

TI Chauffeur / Driver

Mc := 115 N-m

Fc := 22.9 kN

TIBIA	GAUCHE / LEFT	DROIT / RIGHT
HAUT / UPPER	0.593	0.694
BAS / LOWER	0.471	0.527

TI Passager / Passenger

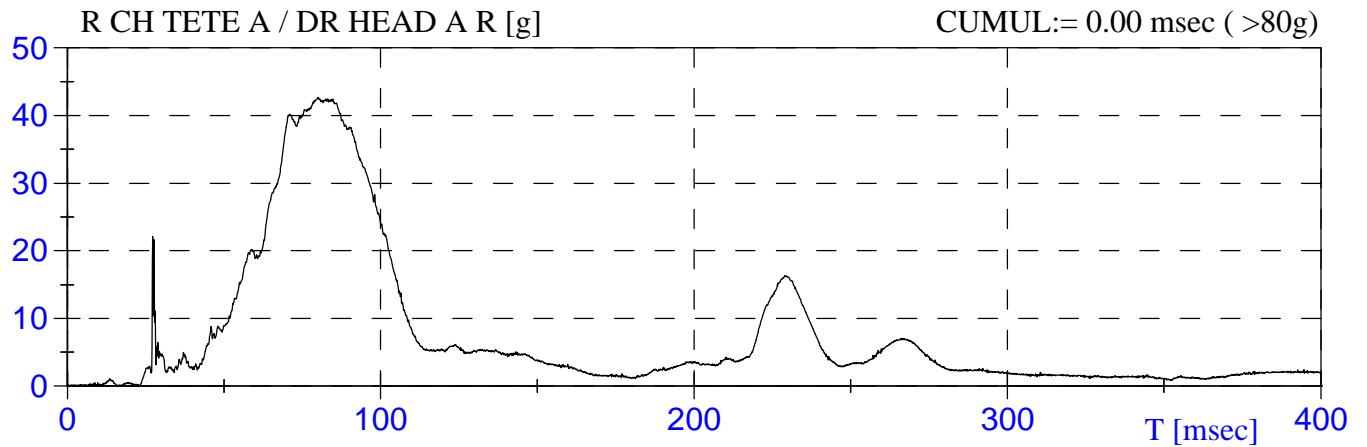
Mc := 115 N-m

Fc := 22.9 kN

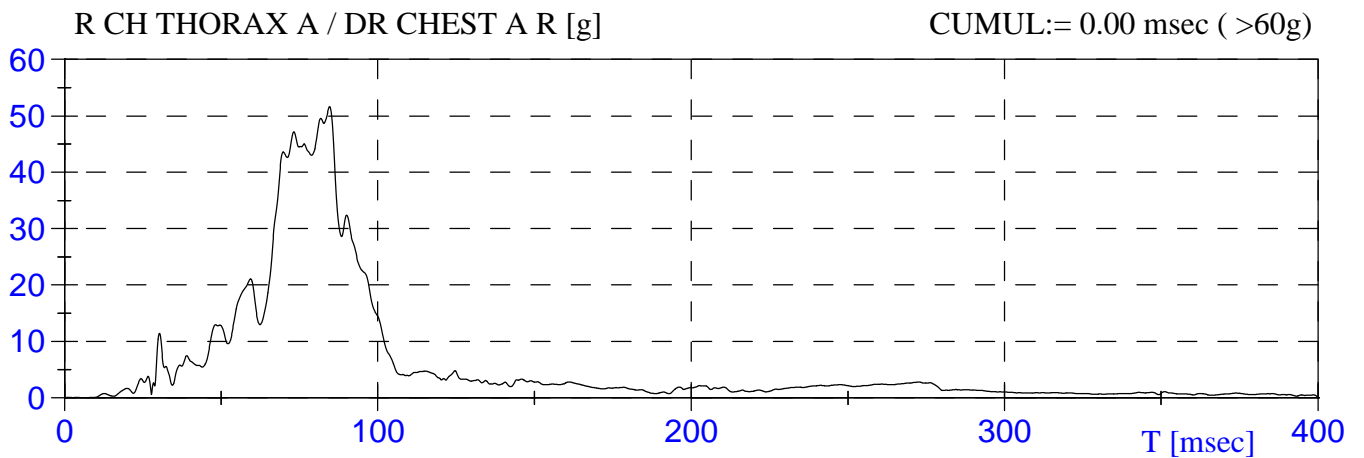
TIBIA	GAUCHE / LEFT	DROIT / RIGHT
HAUT / UPPER	0.416	0.395
BAS / LOWER	0.428	0.330

* Selon / According To: SAE J1727 AUG 96

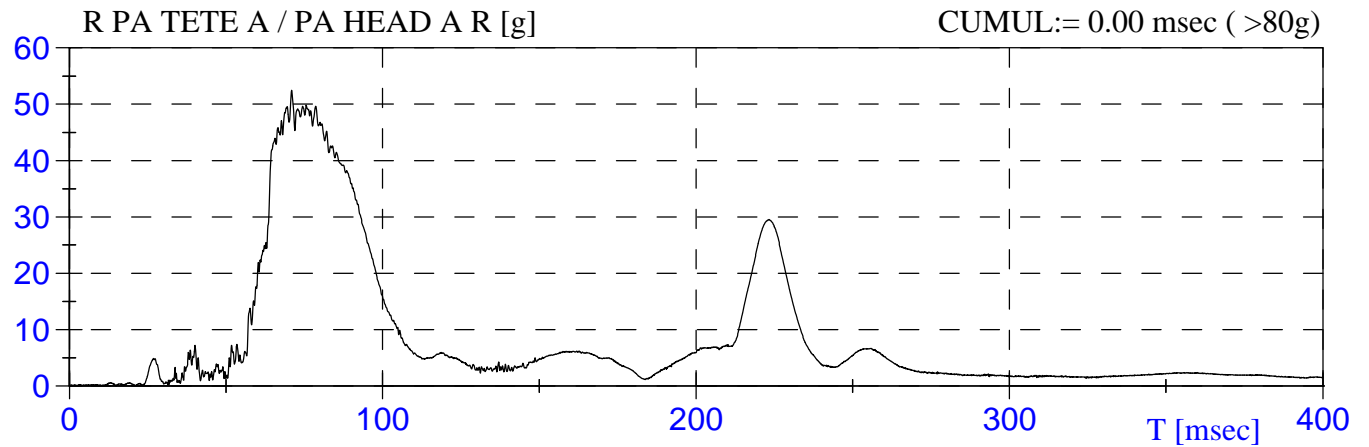
ACCÉLÉRATION DE LA TÊTE >80 g / HEAD ACCELERATION > 80 g



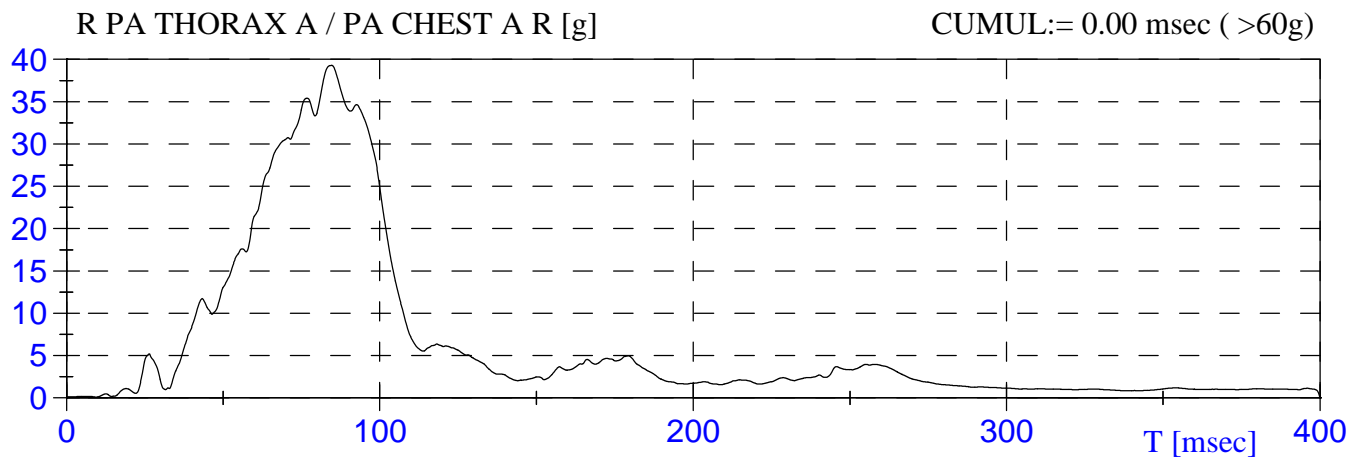
ACCÉLÉRATION DU THORAX >60 g / THORAX ACCELERATION > 60 g



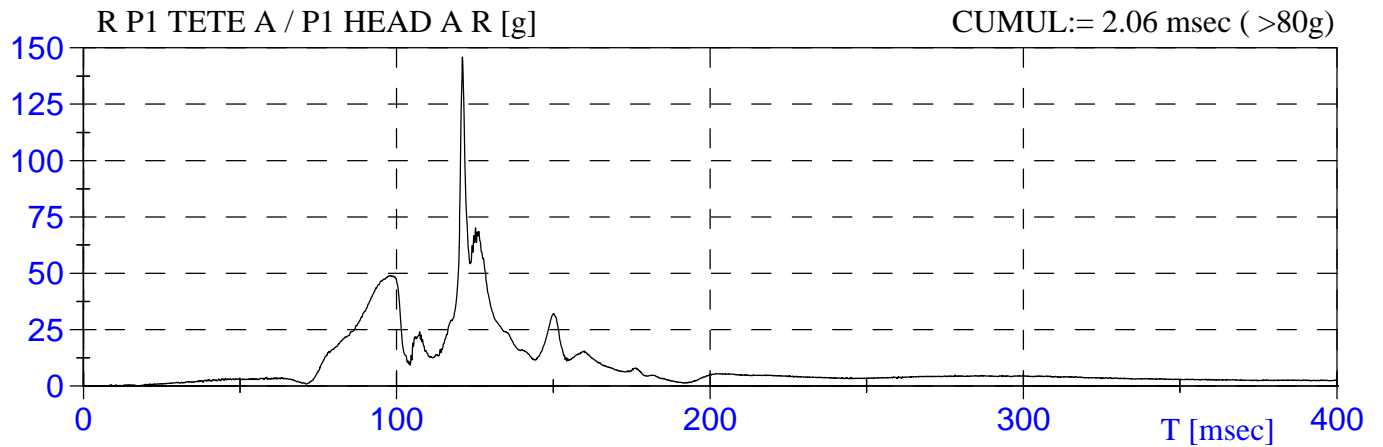
ACCÉLÉRATION DE LA TÊTE >80 g / HEAD ACCELERATION > 80 g



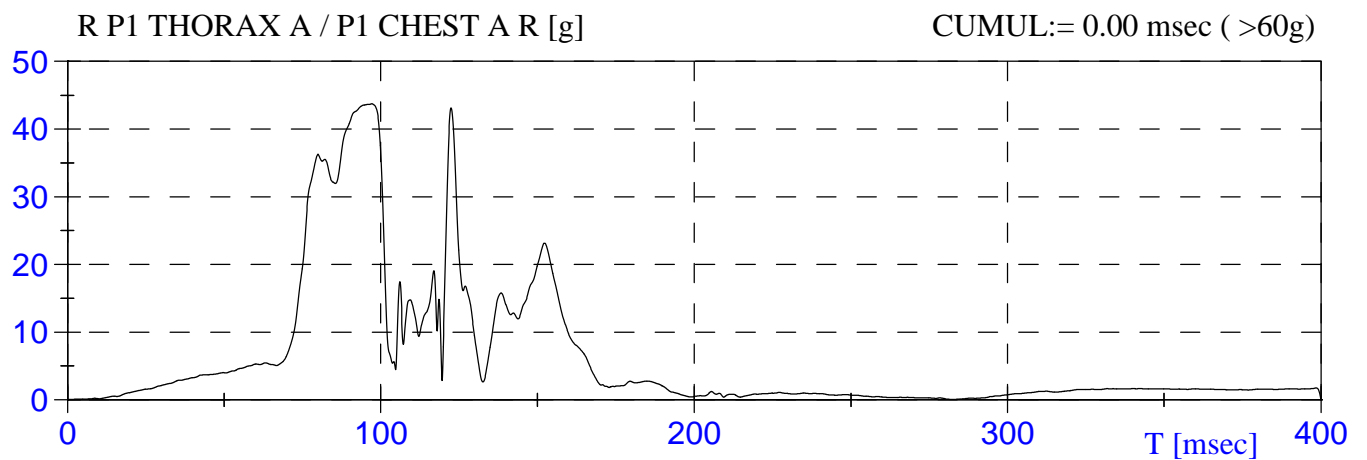
ACCÉLÉRATION DU THORAX >60 g / THORAX ACCELERATION > 60 g



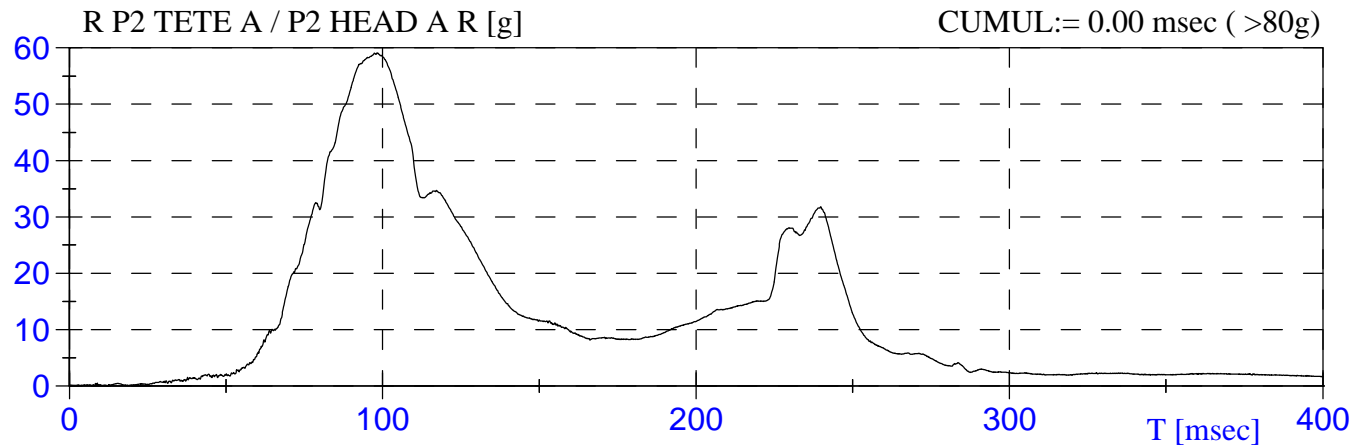
ACCÉLÉRATION DE LA TÊTE >80 g / HEAD ACCELERATION > 80 g



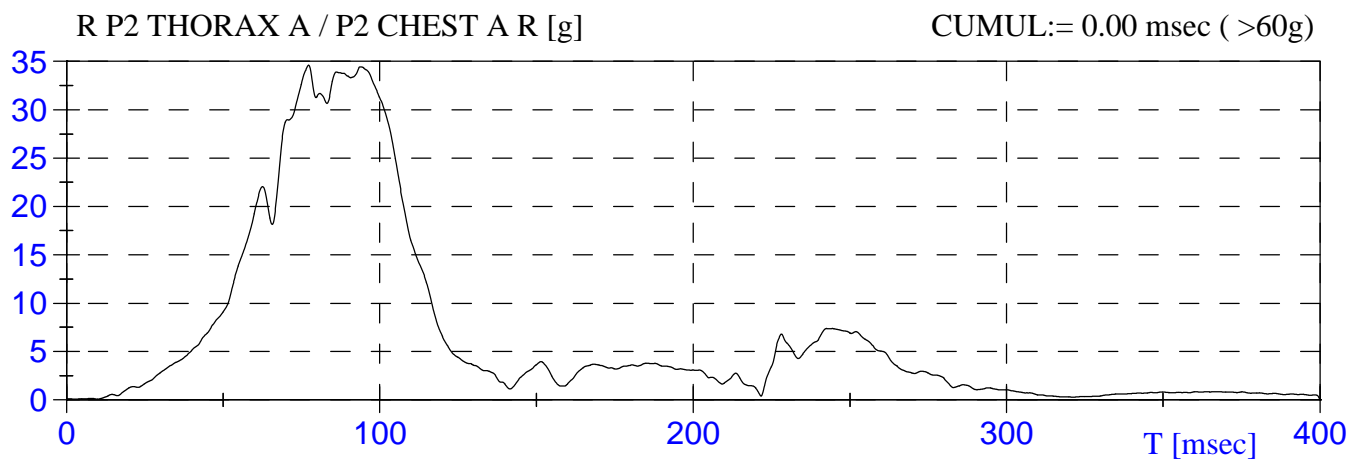
ACCÉLÉRATION DU THORAX >60 g / THORAX ACCELERATION > 60 g



ACCÉLÉRATION DE LA TÊTE >80 g / HEAD ACCELERATION > 80 g



ACCÉLÉRATION DU THORAX >60 g / THORAX ACCELERATION > 60 g





Chauffeur / Driver

$$N_{ij}^* = 0.94$$

Valeurs critiques
Criticals Values

N _{tf}	N _{te}	N _{cf}	N _{ce}	Tc	4287
0.07	0.94	0.10	0.14	Cc	3880
				Fc	155
				Ec	67

Passager / Passenger

$$N_{ij}^* = 0.27$$

Valeurs critiques
Criticals Values

N _{tf}	N _{te}	N _{cf}	N _{ce}	Tc	4287
0.27	0.19	0.17	0.20	Cc	3880
				Fc	155
				Ec	67

* Selon / According To: Federal Register 5/2000