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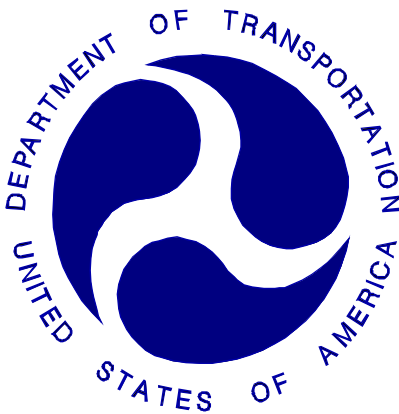
**SAFETY COMPLIANCE TESTING FOR FMVSS 214
SIDE IMPACT PROTECTION
INDICANT**

FORD MOTOR CO
2005 FORD MUSTANG
TWO-DOOR COUPE

NHTSA NUMBER: C50202

ADVANCED INFORMATION ENGINEERING SERVICES TEST NUMBER: 8675-F214-21

GENERAL DYNAMICS
ADVANCED INFORMATION ENGINEERING SERVICES
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November 30, 2004

FINAL REPORT

U. S. DEPARTMENT OF TRANSPORTATION
National Highway Traffic Safety Administration
Enforcement
Office of Vehicle Safety Compliance
400 Seventh Street, SW
Room 6111 (NVS-220)
Washington, DC 20590

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16. Abstract A 55/28 kph 90° Side Impact (Moving Deformable Barrier) Indicant Test was conducted on the subject Ford Mustang Two-Door Coupe. This test was performed at the New Car Assessment Program (NCAP) target test velocity of 62.0 kph, which is 8 kph faster than the target velocity required by the Office of Vehicle Safety Compliance's Laboratory Test Procedure (TP-214D-06, dated July 26, 2001). This test was conducted at the Advanced Information Engineering Services Crash Test Facility in Buffalo, New York, on November 30, 2004. The impact velocity of the Moving Deformable Barrier (MDB) was 61.80 kph, and the ambient temperature at the struck (driver's) side of the target vehicle at the time of impact was 21°C. The target vehicle post-test maximum crush was 176 mm at level 3. The test or target vehicle's performance is given below: <table border="0"> <thead> <tr> <th></th> <th><u>Front SID H3</u></th> <th></th> <th><u>Rear SID H3</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>Left Upper Rib Acceleration:</td> <td>58.1</td> <td>g's</td> <td>ND</td> <td>g's</td> </tr> <tr> <td>Left Lower Rib Acceleration:</td> <td>48.5</td> <td>g's</td> <td>67.5</td> <td>g's</td> </tr> <tr> <td>Lower Spine Acceleration:</td> <td>63.2</td> <td>g's</td> <td>70.6</td> <td>g's</td> </tr> <tr> <td>Thoracic Trauma Index (TTI):</td> <td>61</td> <td>g's</td> <td>ND</td> <td>g's</td> </tr> <tr> <td>Pelvis Acceleration (PEV):</td> <td>45</td> <td>g's</td> <td>49</td> <td>g's</td> </tr> </tbody> </table> The two doors on the struck side of the vehicle did not separate from the body at the hinges or latches and the opposite doors did not open during the side impact event.							<u>Front SID H3</u>		<u>Rear SID H3</u>		Left Upper Rib Acceleration:	58.1	g's	ND	g's	Left Lower Rib Acceleration:	48.5	g's	67.5	g's	Lower Spine Acceleration:	63.2	g's	70.6	g's	Thoracic Trauma Index (TTI):	61	g's	ND	g's	Pelvis Acceleration (PEV):	45	g's	49	g's
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SECTION 1

PURPOSE AND TEST PROCEDURE

This side impact test is part of the FMVSS 214 Side Impact Protection Compliance Test Program sponsored by the National Highway Traffic Safety Administration (NHTSA) under Contract No. DTNH22-02-D-01114. The purpose of this indicant test was to evaluate side impact protection in a 2005 Ford Mustang Two-Door Coupe when tested at the New Car Assessment Program (NCAP) target test velocity of 62.0 kph, which is 8 kph faster than the target velocity required by the Office of Vehicle Safety Compliance's Laboratory Test Procedure (TP-214D-06, dated July 26, 2001).

SECTION 2

SUMMARY OF SIDE IMPACT TEST

This Side Impact Protection Indicant Test was performed at the New Car Assessment Program (NCAP) target test velocity of 62.0 kph, which is 8 kph faster than the target velocity required by the Office of Vehicle Safety Compliance's Laboratory Test Procedure (TP-214D-06, dated July 26, 2001).

A 2005 Ford Mustang Two-Door Coupe was impacted on the left or driver's side by a Moving Deformable Barrier (MDB) which was moving forward in a 27° crabbed position to the monorail at a velocity of 61.80 kph (38.4 mph). The target vehicle was stationary and was positioned at an angle of 63° to the line of forward motion. The side impact test was conducted by the Advanced Information Engineering Services Transportation Sciences Center in Buffalo, New York on November 30, 2004. Pre- and post-test photographs of the test vehicle, the moving deformable barrier (MDB), and the Side Impact Hybrid III Dummies (SID H3s) are included in Appendix A.

Two restrained Side Impact Hybrid III Dummies (SID H3s) were placed in the driver (Pos. #1) and left rear (Pos. #4) designated seating positions according to the instructions specified in the OCWS Side Impact Laboratory Test Procedure which is dated July, 1997. The side impact test was documented by one real-time camera and 9 high-speed cameras. Camera locations and other pertinent camera information are included in this report.

The SID H3s were instrumented with the following accelerometers:

1. Left Upper Rib (LUR) uniaxial and redundant accelerometer (Y-direction)
2. Left Lower Rib (LLR) uniaxial and redundant accelerometer (Y-direction)
3. Lower Thoracic Spine (T₁₂) uniaxial and redundant accelerometer (Y-direction)
4. Pelvic (PEV) section uniaxial and redundant accelerometer (Y-direction)
5. Head triaxial accelerometers (X-, Y- and Z-direction)
6. Upper neck force and moment (X-, Y and Z-direction) load cells

A summary of the Side Impact Hybrid III Dummy (SID H3) configuration and verification test data can be found in Appendix C. A total of 60 channels of data were recorded. Appendix B contains the vehicle, MDB and dummy response data traces.

The following table summarizes the results of the test.

Injury Criteria	Front SID H3	Rear SID H3
TTI (g)	61	ND
PEV (g)	45	49

AIR BAG DEPLOYMENT STATUS

	DRIVER	FRONT PASSENGER	REAR PASSENGER
Front Air Bag	No	No	N/A
Knee Bolster Bag	N/A	N/A	N/A
Side Air Bag	N/A	N/A	N/A
Side Curtain Bag	N/A	N/A	N/A

AUTOMATIC DOOR LOCK SUMMARY

ADL Equipped Test Vehicle:	Yes
ADL Activation Status:	Disabled
Struck Side Door Lock Condition:	Unlocked

SECTION 3

SUMMARY OF TEST RESULTS

DATA SHEET 1

GENERAL TEST AND VEHICLE PARAMETER DATA

TEST VEHICLE INFORMATION:

Year/Make/Model/Body Style: 2005 Ford Mustang Two-Door Coupe

Vehicle Body Color: Red VIN: 1ZVFT80N955119605

Vehicle NHTSA No.: C50202 Month & Year of Manufacture: 10/04

Engine Data: 6 Cylinders; - CID; 4.0 Liters; - cc

Engine Placement: X Longitudinal; or - Lateral

Transmission: 5 Speed; - Manual; X Automatic; X Overdrive

Final Drive: X Rear Wheel Drive; - Front Wheel Drive; - Four Wheel Drive

Odometer Reading 44 km

Supplemental Airbag Restraints:

Front Occupant: X Frontal; - Knee; - Side; - Curtain

Rear Occupant: - Frontal; - Knee; - Side; - Curtain

Options:

X ADL; X A/C; X Power Steering; X Power Brakes; X Power Windows

DATA FROM TIRE PLACARD

Recommended Tire Size: P215/65R16

*Recommended Cold Tire Pressure: 240 kPa FRONT; 240 kPa REAR

DATA FROM TIRE SIDEWALL:

Size of Tires on Test Vehicle: P215/65R16 96T; Manufacturer: BF Goodrich

Tire Pressure with Maximum Capacity Vehicle Load: Front: 300 kPa; Rear: 300 kPa

Treadwear: 620; Traction: A; Temperature: A

VEHICLE CAPACITY DATA:

Number of Occupants: 2 Front; 2 Rear; - 3rd Seat; 4 Total

Type of Front Seats: X Bucket; - Bench; - Split Bench;

Type of Rear Seats: X Bucket; - Bench; - Split Bench; X Contoured

Type of Front Seat Back: - Fixed; X Adjustable with X Lever or - Knob

Type of Rear Seat Back: X Fixed; - Adjustable with - Lever or - Knob

Vehicle Max Capacity Loading = 327.0 kg (A)

No. of Occupants x 68.04 kg. = 272.16 kg (B)

Vehicle Cargo Capacity = 54.84 kg (A-B)

TEST VEHICLE DELIVERED WEIGHT WITH MAXIMUM FLUIDS:

Left Front = 414.0 kg Left Rear = 352.0 kg

Right Front = 426.0 kg Right Rear = 347.0 kg

TOTAL FRONT = 840.0 kg TOTAL REAR = 699.0 kg

% of Total Weight = 54.6% % % of Total Weight = 45.4 %

TOTAL WEIGHT = 1539.0 kg

* Tire pressure used in test.

DATA SHEET 1 (continued)

GENERAL TEST VEHICLE PARAMETER DATA

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202

CALCULATION OF VEHICLE'S TARGET TEST WEIGHT:

Total Test Vehicle Delivered Weight with Max. Fluids	=	<u>1539.0</u>	kg (A)
Maximum Cargo Carrying Capacity of Test Vehicle	=	<u>54.84</u>	kg (B)
Weight of instrumented SID H3 Dummies (2 X 81.2 kg)	=	<u>162.4</u>	kg (C)
TEST VEHICLE TARGET WEIGHT:	=	<u>1756.24</u>	kg (A+B+C)

FULLY LOADED TEST VEHICLE (UDVW + 2 SID H3(s) + CARGO):

Left Front	=	<u>466.0</u>	kg	Left Rear	=	<u>444.0</u>	kg
Right Front	=	<u>420.0</u>	kg	Right Rear	=	<u>429.0</u>	kg
TOTAL FRONT	=	<u>886.0</u>	kg	TOTAL REAR	=	<u>873.0</u>	kg
% of Total Weight	=	<u>50.4%</u>	%	% of Total Weight	=	<u>49.6%</u>	%
TOTAL TEST WEIGHT =		<u>1759.0</u>	kg				

AS TESTED WEIGHT OF TEST VEHICLE (2 SID H3(s) + CARGO + EQUIPMENT & INSTRUMENTATION):

Left Front	=	<u>455.0</u>	kg	Left Rear	=	<u>440.5</u>	kg
Right Front	=	<u>426.5</u>	kg	Right Rear	=	<u>429.0</u>	kg
TOTAL FRONT	=	<u>881.5</u>	kg	TOTAL REAR	=	<u>869.5</u>	kg
% of Total Weight	=	<u>50.3%</u>	%	% of Total Weight	=	<u>49.7%</u>	%
TOTAL TEST WEIGHT =		<u>1751</u>	kg				

TEST VEHICLE ATTITUDE (all dimensions in millimeters):

AS DELIVERED:

Left Front	<u>746</u>	Right Front	<u>745</u>	Left Rear	<u>767</u>	Right Rear	<u>756</u>
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FULLY LOADED:

Left Front	<u>730</u>	Right Front	<u>739</u>	Left Rear	<u>726</u>	Right Rear	<u>728</u>
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READY FOR TEST:

Left Front	<u>736</u>	Right Front	<u>742</u>	Left Rear	<u>726</u>	Right Rear	<u>728</u>
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Test Vehicle Wheelbase: 2720 millimeters

C.G. = 1350.68 millimeters rearward of front wheel centerline

TOTAL VEHICLE LENGTH:

Right Side =	<u>4625</u>	millimeters
Left Side =	<u>4625</u>	millimeters
Centerline =	<u>4755</u>	millimeters

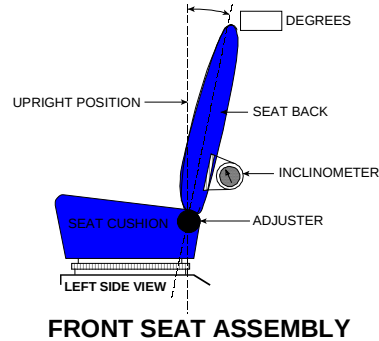
DATA SHEET 1 (continued)

GENERAL TEST VEHICLE PARAMETER DATA

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202

Nominal Design Riding Position for adjustable driver and passenger seat backs. Please describe how to position the inclinometer to measure the seat back angle. Include description of the location of the adjustment latch detent, if applicable.



FRONT SEAT CUSHION PLACEMENT: Placed in mid-position of total seat cushion displacement (130 of 260 mm)

Total Length of Adjustment Travel: 260 millimeters

Total Number of Adjustment Positions or Detents: 24

FRONT SEAT BACK ADJUSTMENT POSITION: Set to 13° from level sill on the head restraint post

Seat Back Torso Angle: 25.9 degrees

SECOND POSITION SEAT:

Total Length of Fore/Aft Adjustment Travel: 0 millimeters

Seat Back Adjustment Position: fixed

ADJUSTABLE STEERING COLUMN POSITION: Placed in mid-tilt position (22°)

WINDOW POSITIONS: Left Front: Closed Left Rear: Fixed

Right Front: Open Right Rear: Removed

Note: Windows will be in closed position on struck side of test vehicle and in open position on opposite side.

AUTOMATIC DOOR LOCKS: Is test vehicle equipped with ADLs? X Yes - No

Does vehicle owner's manual describe how to deactivate ADLs? X Yes - No - N/A

Comments: Automatic door locks can be disabled. The vehicle was tested with the doors in the unlocked condition.

AMOUNT OF STODDARD SOLVENT IN FUEL TANK:

61.7 liters (Fuel Tank Usable Capacity)

57.92 liters used for test (92%-94% of Fuel Tank Usable Capacity)

LOCATION OF IMPACT POINT ON TEST VEHICLE SIDE TO BE IMPACTED:

Wheelbase = 2720 millimeters

Impact Point is 420 millimeters rearward of front axle centerline

(which is 940 millimeters forward of the wheelbase midpoint)

Actual Impact Point is 411 millimeters rearward of front axle centerline

DATA SHEET 2

TEST VEHICLE SUMMARY OF RESULTS

VEHICLE IDENTIFICATION:

Vehicle Year/Make/Model: 2005 Ford Mustang

Body Style: Two-Door Coupe

VIN: 1ZVFT80N955119605

NHTSA No.: C50202

Test Date: November 30, 2004

Overall Length = 4755 millimeters; Overall Width = 1810 millimeters

VEHICLE TEST WEIGHT (Pre-Test):

Left Front = 455.0 kg Left Rear = 440.5 kg

Right Front = 426.5 kg Right Rear = 429.0 kg

TOTAL FRONT = 881.5 kg TOTAL REAR = 869.5 kg

TOTAL VEHICLE WEIGHT 1751.0 kg

Wheelbase = 2720 millimeters

Longitudinal C.G. from Center of Front Axle = 1350.68 millimeters

Impact Angle with Respect to Impactor = 90 degrees

ACTUAL IMPACT POINT

Actual Impact Point is 9 mm forward of nominal impact ref. line (Lateral)

Actual Impact Point is 4 mm above nominal impact point (Vertical)

MAXIMUM EXTERIOR STATIC CRUSH:

1. LEVEL 1 (217 mm above ground) = 24 millimeters

2. LEVEL 2 (457 mm above ground) = 148 millimeters

3. LEVEL 3 (609 mm above ground) = 176 millimeters

4. LEVEL 4 (879 mm above ground) = 133 millimeters

5. LEVEL 5 (1294 mm above ground) = 9 millimeters

Maximum Post-Test Intrusion = 176 millimeters

OCCUPANTS:

Front Passenger:

Rear Passenger:

Dummy Identification SID H3/905

SID H3/906

Restraints Used Three point safety belt with
torso belt pretensioner and force
limiter.

Three point safety belt.

INSTRUMENTATION:

Number of Vehicle Data Channels: = 19

Number of Cameras: Onboard = 3

Offboard = 6

TOTAL = 9

DATA SHEET 3

MOVING DEFORMABLE BARRIER (MDB) SUMMARY

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202

MDB FACE MANUFACTURER AND SERIAL NUMBER:

Plascore Inc. 061B0604-4 047A0504

POSITION OF IMPACT (MDB) ON MONORAIL:

Crabbed 27° to left

MDB DETAILS:

Overall Width of Framework Carriage	=	<u>1250</u>	millimeters
Overall Length of MDB (incl. honeycomb impact face)	=	<u>4120</u>	millimeters
Wheelbase of Framework Carriage	=	<u>2590</u>	millimeters
Tread of Framework Carriage (Front & Rear)	=	<u>1875</u>	millimeters
C.G. Location Rearward of Front Axle	=	<u>1104</u>	millimeters

MDB WEIGHT:

Left Front	=	<u>409.5</u>	kg	Left Rear	=	<u>281.5</u>	kg
Right Front	=	<u>372.5</u>	kg	Right Rear	=	<u>299.0</u>	kg
TOTAL FRONT	=	<u>782.0</u>	kg	TOTAL REAR	=	<u>580.5</u>	kg
TOTAL MDB WEIGHT	=	<u>1362.5</u>	kg				
Impact Angle (MDB C/L to Target Vehicle C/L)	=	<u>90</u>	degrees				
Impact Speed	=	<u>61.80</u>	kph				

MAXIMUM STATIC CRUSH OF HONEYCOMB IMPACT FACE:

1. Row A at Center of Bumper Level	=	<u>247</u>	millimeters
2. Row B at Top of Bumper Level	=	<u>199</u>	millimeters
3. Row C at Mid Level	=	<u>161</u>	millimeters
4. Row D at Top of Stack Level	=	<u>169</u>	millimeters

INSTRUMENTATION:

Number of MDB Data Channels	=	<u>5</u>
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DATA SHEET 4**POST-TEST OBSERVATIONS**Vehicle: 2005 Ford Mustang Two-Door CoupeNHTSA No. C50202TEST DUMMY INFORMATION AND CONTACT POINTS:

DESCRIPTION	FRONT SEAT	REAR SEAT
ATD Type/Serial No.	SID H3/905	SID H3/906
Head Contact:	The side of the face to the shoulder and the side and top of the head to the top of the door trim panel	Side and top of the head to the C-pillar and side header intersection.
Upper Torso Contact:	Door Trim Panel	Interior Trim Panel
Lower Torso Contact:	Door Trim Panel	Interior Trim Panel
Left Knee Contact:	Door Trim Panel	Interior Trim Panel
Right Knee Contact:	Left Knee	Left Knee

POST TEST DOOR OPENING AND SEAT TRACK INFORMATION

DESCRIPTION	FRONT	REAR
Left Side Doors	Closed, latched and inoperable without tools	N/A
Right Side Doors	Closed, latched and operable without tools	N/A
Hatch/Other Door	N/A	N/A
Seat Movement (mm)	0	N/A
Seat Back Failure	None	None

POST TEST STRUCTURAL OBSERVATIONS

CRITICAL AREAS OF PERFORMANCE	
Pillar Performance	The A- and B-pillars were moved inboard during the event with no visible tears or separations
Sill Separation	The sill was moved inboard with no visible tears or separations
Windshield Damage	The windshield was cracked along the left A-Pillar during the event
Window Damage	The front left side window shattered during the event
Other Notable Effects	None

AIR BAG DEPLOYMENT STATUS:

	DRIVER	FRONT PASSENGER	REAR PASSENGER
Front Air Bag	No	No	N/A
Knee Bolster Bag	N/A	N/A	N/A
Side Air Bag	N/A	N/A	N/A
Side Curtain Bag	N/A	N/A	N/A

MDB LEFT EDGE IMPACT DATA

Measured Parameter	Units	Requirement	Value
Horizontal Offset	mm	± 50 mm	9 mm forward
Vertical Offset	mm	± 20 mm	4 mm up

SECTION 4

OCCUPANT AND VEHICLE INFORMATION

DATA SHEET 5

SID H3 INSTRUMENTATION DATA

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202

		Front Dummy ID# 905				Rear Dummy ID# 906			
		Pos. Direction		Neg. Direction		Pos. Direction		Neg. Direction	
		Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)
HEAD ACCELERATIONS:									
Longitudinal	X	0.3	17.5	-24.9	77.8	5.9 ¹	74.7 ¹	-10.3 ¹	64.3 ¹
Lateral	Y	27.6	75.0	-4.1	174.7	117.8	57.4	-13.7	79.3
Vertical	Z	42.5	66.1	-0.5	13.8	19.1	56.3	-27.7	68.0
Resultant	R	45.9	66.3	0.0	-5.7	118.2	57.4	0.0	-12.1
HIC		282.3				579.5			
NECK FORCES:									
Longitudinal	X	†	†	†	†	140.2	151.4	-855.4	85.8
Lateral	Y	‡	‡	‡	‡	193.3	152.5	-1111.6	60.0
Vertical	Z	†	†	†	†	227.6	123.3	-1867.8	59.4
Resultant	R	†	†	†	†	2175.5	59.4	0.1	-14.6
NECK MOMENTS:									
X		45.4	49.2	-67.0	76.2	88.6	69.7	-16.0	157.0
Y		‡	‡	‡	‡	32.8	87.5	-19.8	71.4
Z		†	†	†	†	8.1	126.9	-11.7	70.5
Resultant	R	†	†	†	†	91.4	69.7	0.0	-6.2
RIB ACCELERATIONS:									
Upper Rib Lateral	Y	58.1	37.5	-6.8	76.8	ND	ND	ND	ND
Upper Rib Lateral	Y(R)	57.9	37.5	-5.9	76.8	ND	ND	ND	ND
Lower Rib Lateral	Y	48.5	37.5	-9.1	76.2	67.5	55.0	-12.1	85.6
Lower Rib Lateral	Y(R)	49.2	37.5	-9.0	76.2	70.2	55.0	-11.1	86.2
SPINE ACCELERATIONS:									
Lower Lateral	Y	63.2	41.9	-12.5	65.7	70.6	58.7	-17.9	91.2
Lower Lateral	Y(R)	63.4	41.9	-12.5	65.7	70.6	58.7	-17.0	91.2
PELVIC ACCELERATIONS:									
Lateral	Y	44.8	38.7	-6.5	61.2	49.3	53.7	-7.4	190.0
Lateral	Y(R)	45.3	38.7	§	§	48.6	53.7	-7.5	81.9

REFERENCE: Positive Direction: Longitudinal (X) = forward; Lateral (Y) = to right; Vertical (Z) = down

Note: Rib, Spine and Pelvis data has been FIR filtered, Y(R) denotes redundant Y direction accelerometer.

Head Accelerations and Neck Forces are filtered at SAE Class 1000, Neck Moments are filtered at SAE Class 600.

¹Data is questionable after 132 ms.

† - Noise in Data

‡ - Channel Failed

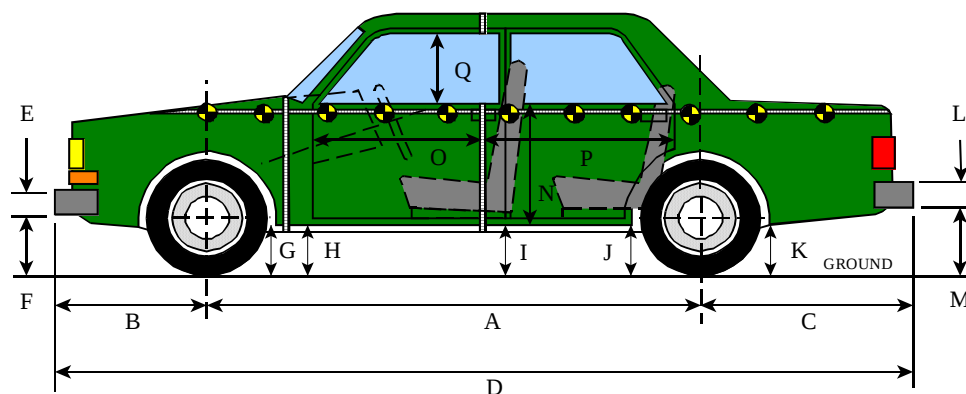
§ - Data is invalid after 96 ms.

DATA SHEET 6

VEHICLE SIDE MEASUREMENTS

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202



LEFT SIDE VIEW

NOTE: all dimensions are in millimeters with tolerance of ± 3 mm

	PRE-TEST (as delivered)	PRE-TEST (as tested)	POST-TEST (as tested)	Δ CHANGE
A	2720	2720	2720	0
B	925	-	925	0
C	1110	-	1110	0
D	4755	-	4755	0
E	335	-	335	0
F	215	192	237	45
G	148	126	152	26
H	157	133	153	20
I	167	134	149	15
J1	165	129	141	12
J2	169	133	145	12
K	300	259	261	2
L	330	-	330	0
M	345	300	302	2
N	685	-	658	-27
O	515	-	513	-2
P	783	-	775	-8
Q	388	-	367	-21
R	4625	-	4625	0
S	4625	-	4625	0
T	1810	-	1760	-50

D = Length at Centerline

E&L = Bumper Thickness

R = Right Side Length

S = Left Side Length

T = Width at B-Pillar

J1 = To Pinch Weld

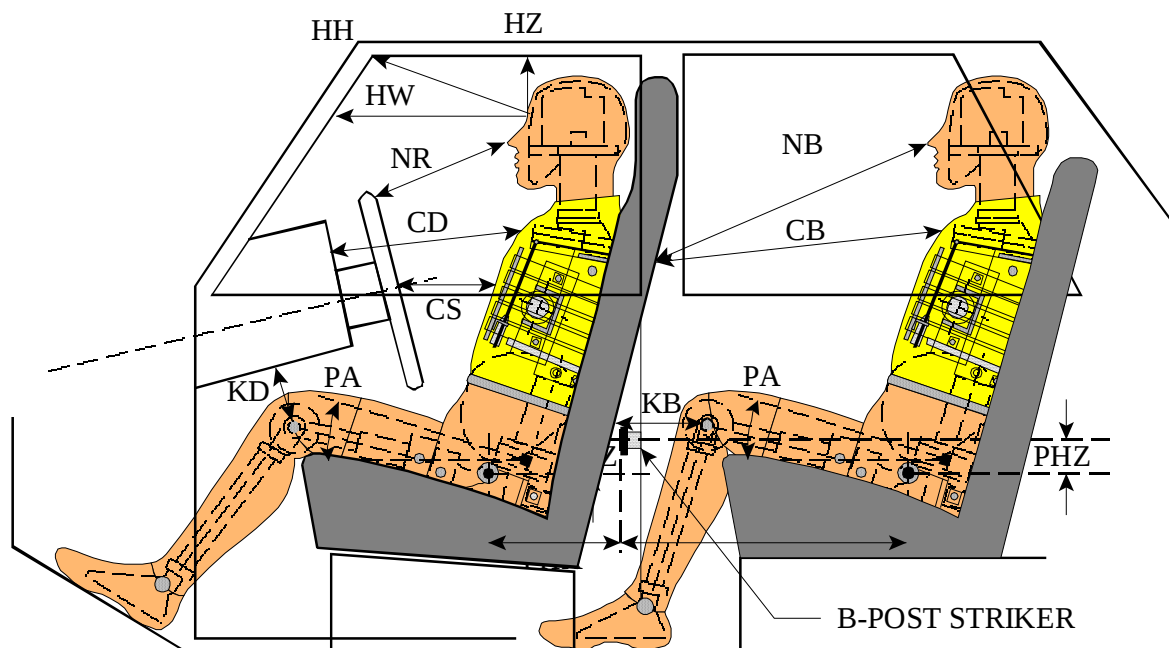
J2 = To Sill

DATA SHEET 7

SID H3 LONGITUDINAL CLEARANCE DIMENSIONS

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202



LEFT SIDE VIEW

NOTE: 2-DOOR VEHICLE SHOWN.
REAR DUMMY PHX & PHZ
MEASUREMENTS FOR A 4-DOOR
VEHICLE WOULD USE THE C-POST
STRIKER AS A REFERENCE POINT

NOTE: All dimensions are in millimeters with tolerance of ± 3 mm

	DRIVER ID# 905	LEFT REAR PASS. ID# 906
HH	385	N/A
HW	632	N/A
HZ	171	115
NR/NB	430	506
CD/CB	541	403
CS	311	N/A
KDL(KDA°)/KBL(KDA°)	142 / (40 °)	97 / (34 °)
KDR(KBA°)/KBR(KBA°)	126 / (55 °)	104 / (26 °)
PA°	24.4 °	24.2 °
PHX	486	-335
PHZ	222	195

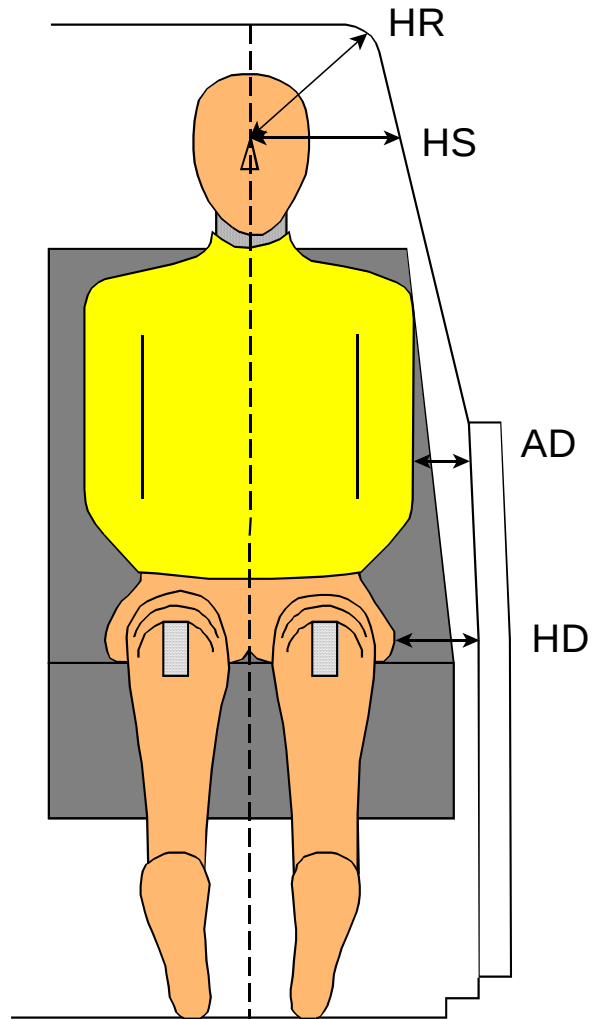
Note: 2-door vehicle shown. Rear dummy PHX & PHZ measurements for 4-door vehicle would use the C-post striker as a reference point.

DATA SHEET 8

SID H3 LATERAL CLEARANCE DIMENSIONS

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202



NOTE: All dimensions are in millimeters with tolerance of ± 3 mm

	DRIVER ID # 905				LEFT REAR PASS. ID # 906			
HR	168				149			
HS	338				287 (C-Pillar)			
AD*	LOWER:	120	UPPER:	92	LOWER:	145	UPPER:	133
HD	146				137			

* Lower measurement is taken laterally at the center of the lower rib accelerometer height from the SID H3 arm segment to the closest part of the vehicle side.

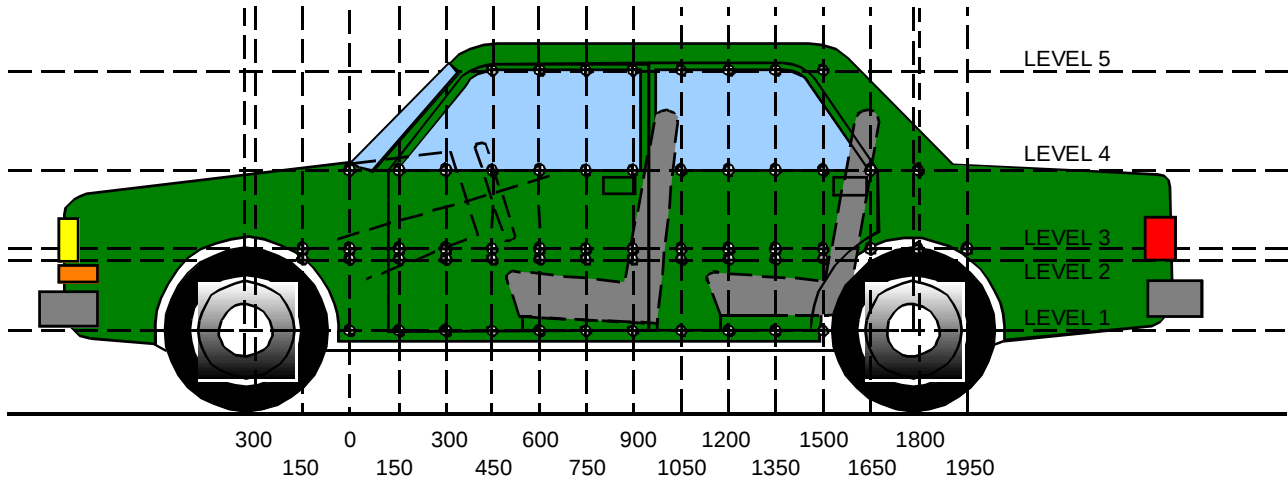
Upper measurement is taken laterally at the center of the upper rib accelerometer height from the SID H3 arm segment to the closest part of the vehicle side.

DATA SHEET 9

VEHICLE SIDE MEASUREMENTS

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202



LEFT SIDE VIEW

NOTE: All measurements are in millimeters (mm)

LEVEL 5 - WINDOW TOP
LEVEL 4 - WINDOW SILL
LEVEL 3 - MID-DOOR
LEVEL 2 - OCCUPANT H-POINT
LEVEL 1 - AXLE CENTERLINE HEIGHT OR SILL TOP HEIGHT

MEASUREMENTS ARE TAKEN WHEN THE VEHICLE IS IN THE "AS TESTED" CONFIGURATION.

Measurements Along the Vertical 750 mm Line Shown Above:

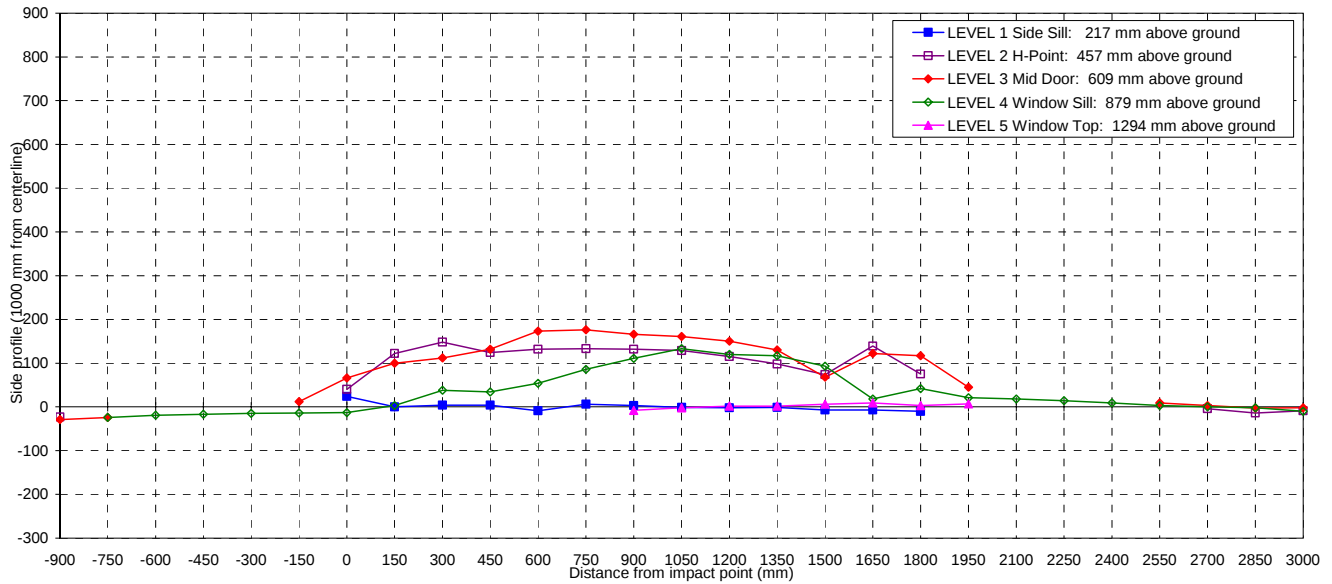
Level 5 @ Window Top	=	<u>1294</u>	millimeters
Level 4 @ Window Sill	=	<u>879</u>	millimeters
Level 3 @ Mid Door	=	<u>609</u>	millimeters
Level 2 @ Occupant H-Point	=	<u>457</u>	millimeters
Level 1 @ Axle Centerline Height (or Sill Top Height)	=	<u>217</u>	millimeters

DATA SHEET 10

VEHICLE EXTERIOR CRUSH PROFILES - ALL LEVELS

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202



NOTE: All dimensions are in millimeters with a tolerance of ± 3 mm

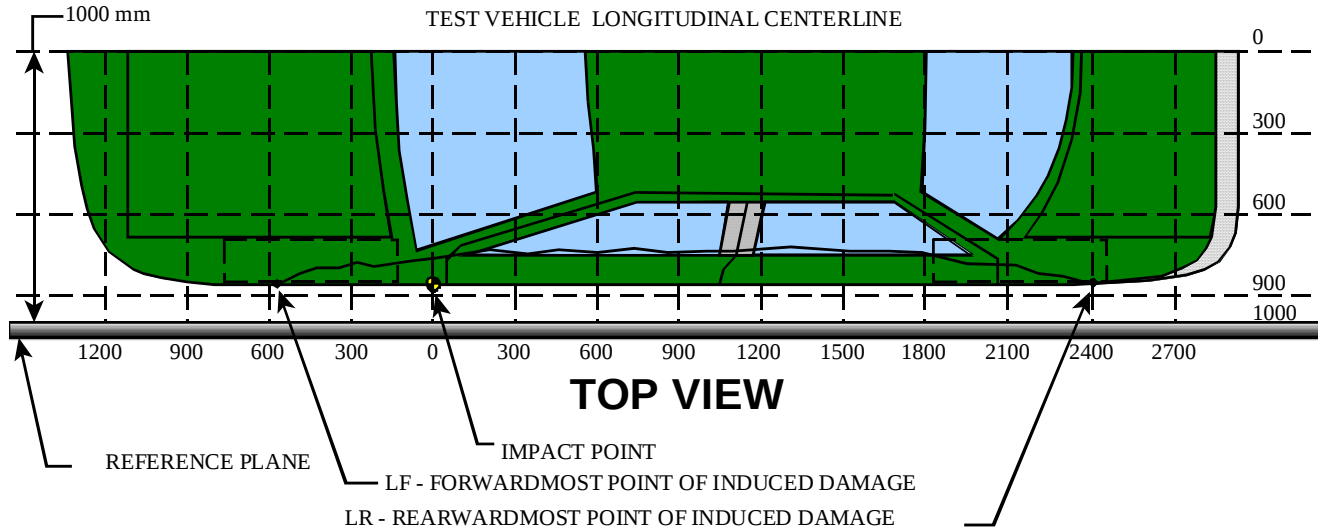
			DISTANCE IN MILLIMETERS (mm) FROM IMPACT POINT																											
LEVEL	HEIGHT (mm)		-900	-750	-600	-450	-300	-150	0	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000	
LEVEL 1 SIDE SILL	217	PRE	--	--	--	--	--	--	136	138	137	137	139	138	141	143	145	144	148	149	152	--	--	--	--	--	--	--	--	--
		POST	--	--	--	--	--	--	160	138	141	141	130	144	144	142	143	143	141	142	142	--	--	--	--	--	--	--	--	--
		CRUSH	N/A	N/A	N/A	N/A	N/A	N/A	24	0	4	4	-9	6	3	-1	-2	-1	-7	-7	-10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LEVEL 2 H POINT	457	PRE	156	--	--	--	--	--	93	107	107	106	105	106	106	105	103	102	96	95	95	--	--	--	--	--	107	151	169	
		POST	133	--	--	--	--	--	133	229	255	230	237	239	238	234	218	200	170	234	170	--	--	--	--	--	103	137	160	
		CRUSH	-23	N/A	N/A	N/A	N/A	N/A	40	122	148	124	132	133	132	129	115	98	74	139	75	N/A	N/A	N/A	N/A	N/A	-4	-14	-9	
LEVEL 3 MID DOOR	609	PRE	154	90	--	--	--	75	90	89	88	87	86	87	87	88	91	93	98	99	87	70	--	--	--	76	114	139	152	
		POST	125	66	--	--	--	87	156	189	200	219	259	263	253	249	241	223	166	221	204	115	--	--	--	85	117	136	150	
		CRUSH	-29	-24	N/A	N/A	N/A	12	66	100	112	132	173	176	166	161	150	130	68	122	117	45	N/A	N/A	N/A	9	3	-3	-2	
LEVEL 4 WINDOW SILL	879	PRE	--	454	349	256	212	181	171	159	148	143	137	128	127	124	122	122	124	124	125	128	132	132	138	145	155	165	178	
		POST	--	430	330	239	197	167	158	162	186	177	191	214	238	257	242	239	217	142	167	149	150	146	147	148	155	163	168	
		CRUSH	N/A	-24	-19	-17	-15	-14	-13	3	38	34	54	86	111	133	120	117	93	18	42	21	18	14	9	3	0	-2	-10	
LEVEL 5 WINDOW TOP	1294	PRE	--	--	--	--	--	--	--	--	--	--	--	--	475	364	365	365	365	373	396	525	--	--	--	--	--	--	--	
		POST	--	--	--	--	--	--	--	--	--	--	--	--	467	362	367	367	371	382	399	532	--	--	--	--	--	--	--	
		CRUSH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-8	-2	2	2	6	9	3	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA SHEET 11

VEHICLE DAMAGE PROFILE DISTANCES

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202



MEASUREMENT CONVENTIONS:
 Forward of the impact point (towards front of vehicle) is considered negative (—).
 Rearward of the impact point (toward rearend of vehicle) is considered positive (+).

NOTE: All dimensions are in millimeters with tolerance of ± 3 mm.

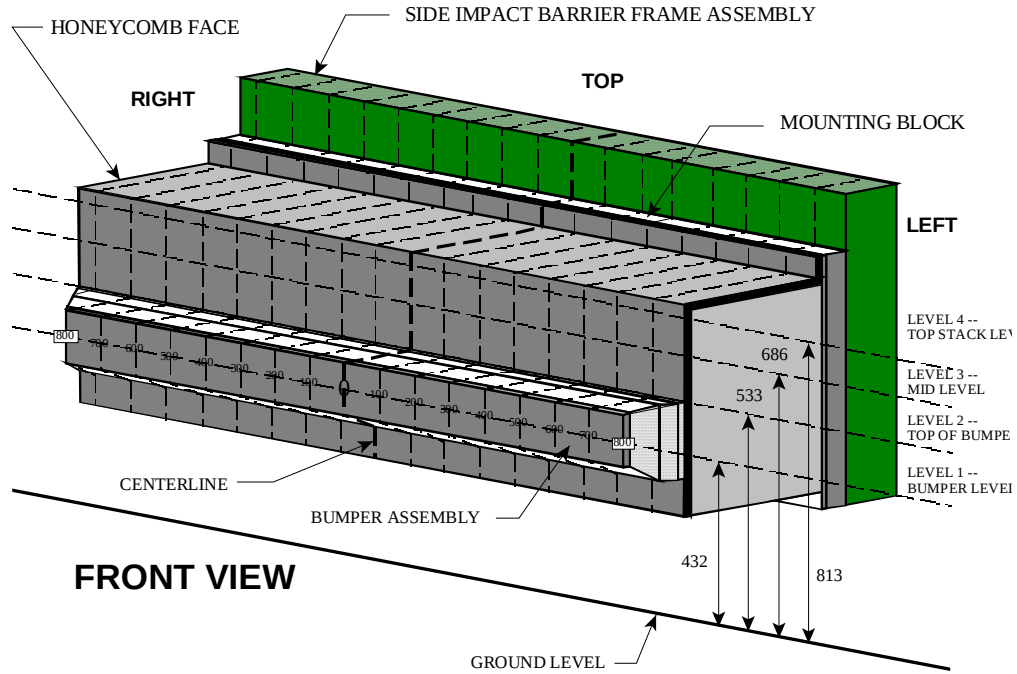
DPD MEASUREMENTS		POST TEST (mm)	PRETEST (mm)	STATIC CRUSH (mm)
1	(LR = <u>2750</u> mm)	158	158	0
2	2168	148	132	16
3	1586	207	95	112
4	1004	250	88	162
5	422	235	106	129
6	(LF = <u>-160</u> mm)	169	183	-14

DATA SHEET 12

EXTERIOR STATIC CRUSH FOR IMPACTOR FACE

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202



NOTE: Dimensions are shown in millimeters, mm

NOTE: All dimensions are in millimeters with a tolerance of ± 3 mm

			DISTANCE RIGHT OF CENTER (mm)											DISTANCE LEFT OF CENTER (mm)							
LEVEL	HEIGHT AT CL (mm)*		800	700	600	500	400	300	200	100	0	100	200	300	400	500	600	700	800		
LEVEL 4 TOP STACK	813	PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619		
		POST	766	781	740	705	659	641	641	648	656	670	683	701	724	756	764	775	788		
		CRUSH	147	162	121	86	40	22	22	29	37	51	64	82	105	137	145	156	169		
LEVEL 3 MID LEVEL	686	PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619		
		POST	758	780	743	699	676	661	653	649	646	647	656	674	704	738	748	749	755		
		CRUSH	139	161	124	80	57	42	34	30	27	28	37	55	85	119	129	130	136		
LEVEL 2 TOP BUMPER	533	PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619		
		POST	809	818	798	773	753	739	732	726	732	727	729	730	736	740	742	743	741		
		CRUSH	190	199	179	154	134	120	113	107	113	108	110	111	117	121	123	124	122		
LEVEL 1 MID BUMPER	432	PRE	535	519	518	518	518	518	518	518	518	518	518	518	518	518	518	519	535		
		POST	768	766	760	740	715	698	690	681	679	681	683	684	693	704	696	694	709		
		CRUSH	233	247	242	222	197	180	172	163	161	163	165	166	175	186	178	175	174		

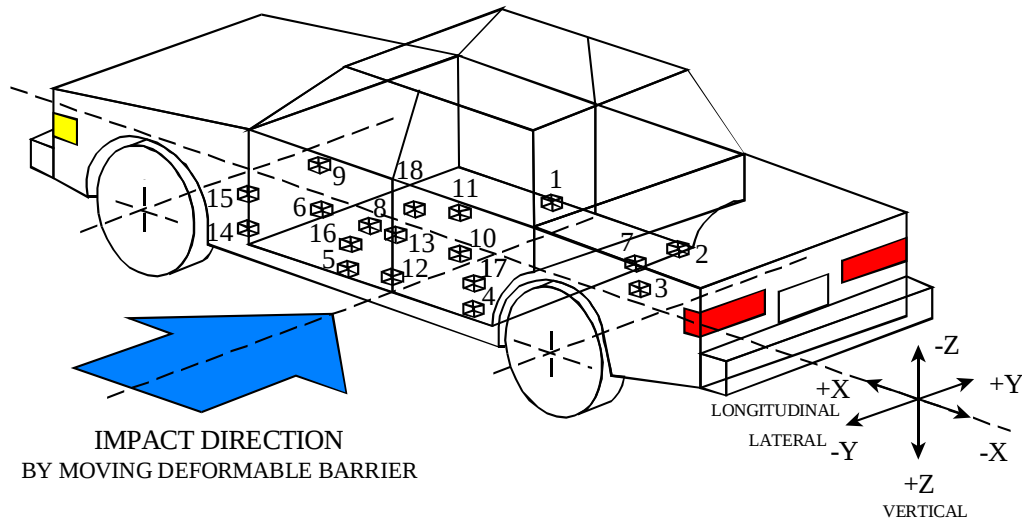
*Heights measured above ground level.

DATA SHEET 13

TEST VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202



- 1-Right Side Sill @ Front Seat
- 2-Right Side Sill @ Rear Seat
- 3-Rear Floorpan Above Axle
- 4-Left Side Sill @ Rear Seat
- 5-Left Side Sill @ Front Seat
- 6-Left Front Door on Centerline
- 7-Right Rear Occupant Compartment
- 8-Midrear of Left Front Door
- 9-Left Front Door Upper Centerline

- 10-Midrear of Left Rear Door
- 11-Left Rear Door Upper Centerline
- 12-Left Lower B-Pillar
- 13-Left Middle B-Pillar
- 14-Left Lower A-Pillar
- 15-Left Middle A-Pillar
- 16-Front Seat Track
- 17-Rear Seat Track
- 18-Vehicle CG

DATA SHEET 13 (continued)

VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202

Accel. No.	Location	Coordinates (mm)±3 mm				Long. (x)		Lat. (y)		Vert. (z)		Resultant	
						Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)
		X*	Y*	Z*		Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)
1	Right Side Sill at Front Seat	2867	678	-308	pos.	1.9	56.3	29.5	11.2	6.2	23.6	29.8	11.2
					neg.	-7.5	15.7	-2.5	97.4	-5.3	13.7	0.0	-12.3
2	Right Side Sill at Rear Seat	1909	667	-231	pos.	2.1	55.8	30.6	10.1	6.6	31.6	30.9	10.1
					neg.	-8.1	15.4	-2.6	115.7	-5.2	58.7	0.0	-3.5
3	Rear Floorpan Above Axle	1207	21	-554	pos.	1.9	86.9	32.0	11.0	8.2	21.1	32.1	11.0
					neg.	-5.9	29.6	-3.3	100.0	-9.3	16.9	0.0	-13.7
4	Left Side Sill at Rear Seat	1918	-658	-248	pos.	-	-	32.2	7.7	-	-	-	-
					neg.	-	-	-5.1	12.5	-	-	-	-
5	Left Side Sill at Front Seat	2780	-648	-255	pos.	-	-	52.6	5.2	-	-	-	-
					neg.	-	-	-14.7	16.7	-	-	-	-
6	Left Front Door on Centerline	-	-	-	pos.	-	-	-	-	-	-	-	-
					neg.	-	-	-	-	-	-	-	-
7	Right Rear Occupant Compartment	1882	407	-165	pos.	-	-	31.1	10.1	-	-	-	-
					neg.	-	-	-2.7	53.9	-	-	-	-
8	Midrear of Left Front Door	-	-	-	pos.	-	-	-	-	-	-	-	-
					neg.	-	-	-	-	-	-	-	-
9	Left Front Door Upper Centerline	-	-	-	pos.	-	-	-	-	-	-	-	-
					neg.	-	-	-	-	-	-	-	-
10	Midrear of Left Rear Door	-	-	-	Pos.	-	-	-	-	-	-	-	-
					neg.	-	-	-	-	-	-	-	-
11	Left Rear Door Upper Centerline	-	-	-	pos.	-	-	-	-	-	-	-	-
					neg.	-	-	-	-	-	-	-	-

*Reference: X - Rear Bumper (+ Forward)

Y - Vehicle Centerline (+ To Right) Z - Ground Level (+ Down)

**Accelerometer was not requested by COTR.

4-11

8675-F214-21

DATA SHEET 13 (continued)

VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202

Accel. No.	Location	Coordinates (mm)±3 mm				Long. (x)		Lat. (y)		Vert. (z)		Resultant	
						Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)
		X*	Y*	Z*									
12	Left Lower B-Pillar	1899	-655	-326	pos.	-	-	§	§	-	-	-	-
					neg.	-	-	§	§	-	-	-	-
13	Left Middle B-Pillar	1623	-690	-932	pos.	-	-	50.0	9.6	-	-	-	-
					neg.	-	-	-28.2	50.9	-	-	-	-
14	Left Lower A-Pillar	3078	-686	-421	pos.	-	-	§	§	-	-	-	-
					neg.	-	-	§	§	-	-	-	-
15	Left Middle A-Pillar	2934	-676	-980	pos.	-	-	49.7	12.9	-	-	-	-
					neg.	-	-	-17.0	24.6	-	-	-	-
16	Front Seat Track	2148	-562	-235	pos.	-	-	28.3	27.1	-	-	-	-
					neg.	-	-	-3.0	53.5	-	-	-	-
17	Rear Seat Track	1118	-516	-643	pos.	-	-	30.9	29.7	-	-	-	-
					neg.	-	-	-9.3	103.9	-	-	-	-
18	Vehicle CG	2436	43	-509	pos.	12.6	22.7	46.7	14.7	17.9	25.3	49.2	14.6
					neg.	-18.9	10.8	-18.1	76.2	-15.0	14.3	0.0	-5.2

*Reference: X - Rear Bumper (+ Forward)

Y - Vehicle Centerline (+ To Right) Z - Ground Level (+ Down)

§ - Transducer dislodged at approximately 5 ms.

4-12

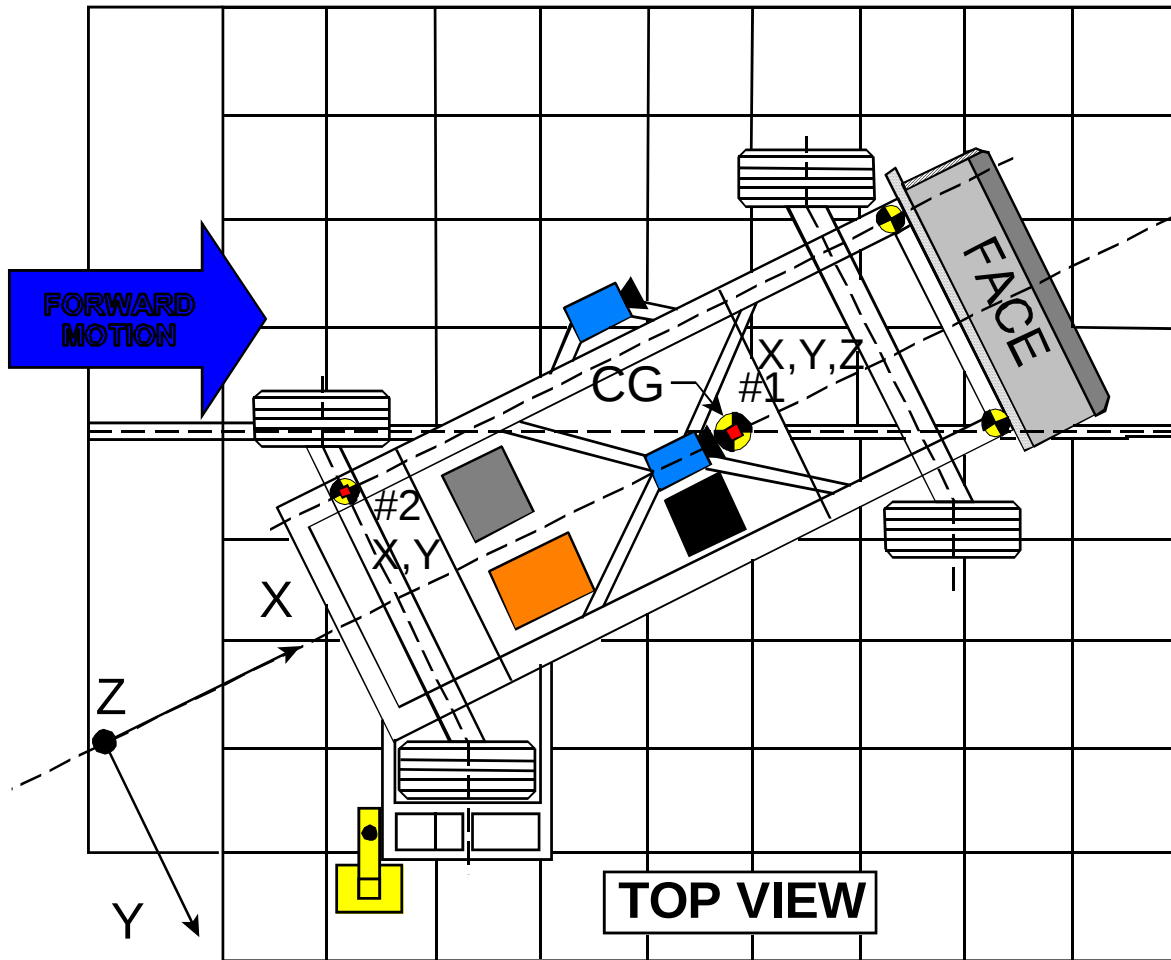
8675-F214-21

DATA SHEET 14

MDB ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202



Accel. No.	Location	Coordinates (millimeters)			Pos. Direct.		Neg. Direct.	
					Max (g)	Time (msec)	Max (g)	Time (msec)
		X*	Y*	Z*				
1	MDB Center of Gravity							
	Longitudinal... X	1859	0	-330	1.3	97.7	-23.9	41.2
	Lateral..... Y				2.1	60.8	-7.2	26.2
	Vertical..... Z				15.3	64.1	-15.3	36.1
	Resultant..... R				27.0	47.7	0.1	-8.0
2	Rear Frame Member							
	Longitudinal... X	386	-660	-660	2.3	90.7	-26.8	43.6
	Lateral..... Y				4.0	24.6	-2.7	59.9

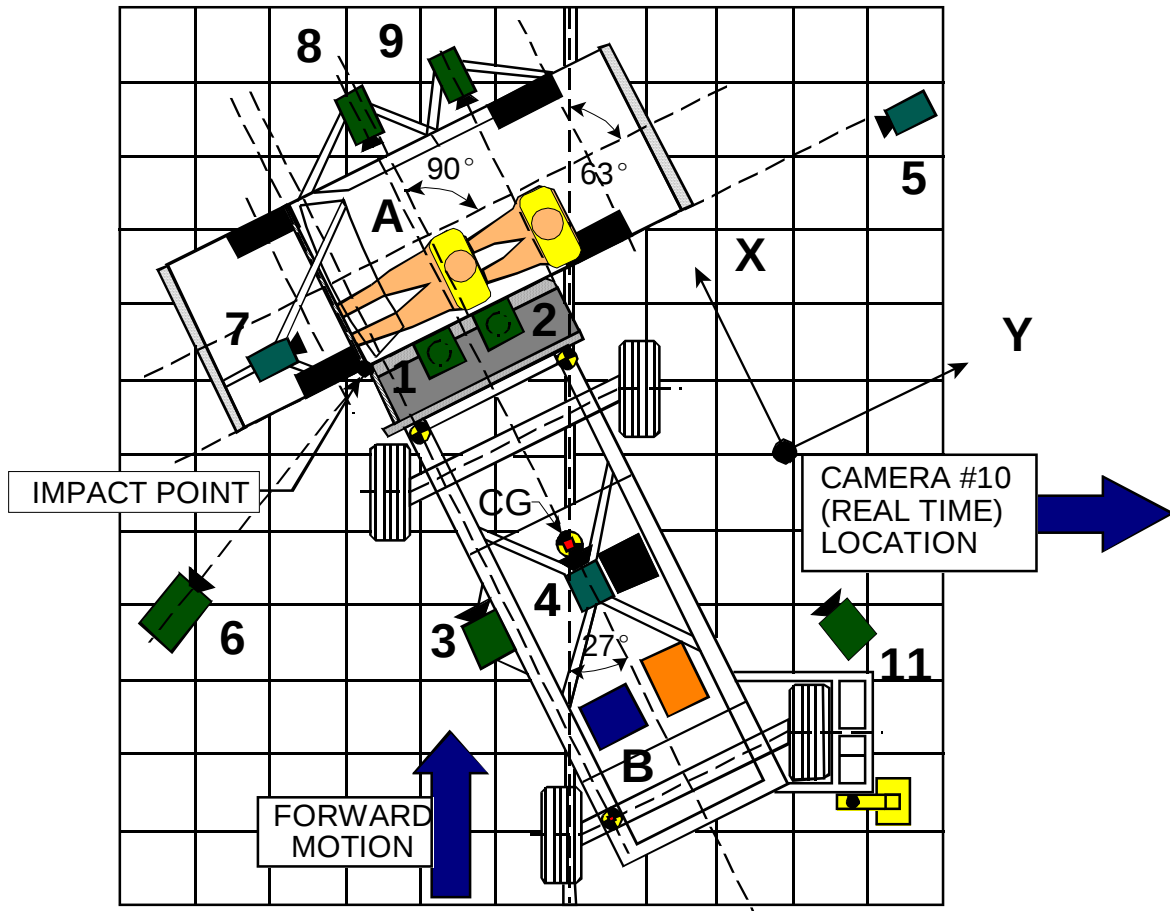
*Reference: X = Rear Bumper (+ Forward)
Y = Vehicle Centerline (+ To Right)
Z = Ground Level (+ Down)
All measurements accurate to within ± 3 mm.

DATA SHEET 15

HIGH SPEED CAMERA LOCATIONS AND DATA SUMMARY

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No. C50202



Camera No.	View	Coordinates (millimeters)			Angle (deg.)	Lens (mm)	Film Speed (fps)
		X*	Y*	Z*			
1	Overhead view of test vehicle	75	816	-4880	-90	8	1000
2	Overhead closeup view of impact plane	193	845	-4880	-90	12.5	1000
3	MDB onboard closeup view of impact point	-1470	0	-847	0	13	1000
4	MDB onboard view of driver dummy	-1140	838	-1586	-17	7.5	1000
5	Right side ground level overall view	-50	10080	-938	-2	50	1000
6	Left side ground level overall view	-2069	-1748	-1250	-8	28	1000
7	Test vehicle onboard driver front view	577	-164	-1281	-12	25	1000
8	Test vehicle onboard driver side view	1666	1070	-1063	-10	12.5	1000
9	Test vehicle onboard passenger side view	1626	2012	-1122	-15	12.5	1000
10	Real time film coverage of test	-	-	-	-	-	30

* Reference (from point of impact); all measurements accurate to within ± 6 mm.

X = (Impact Point) + Forward

Y = (Impact Point) + To Right

Z = (Ground Level) + Down

SECTION 5

FUEL SYSTEM INTEGRITY

DATA SHEET 16

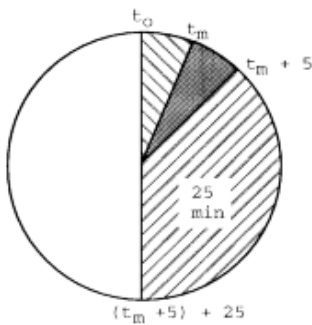
FMVSS 301 FUEL SYSTEM INTEGRITY DATA

NHTSA No.:	C50202	TEST DATE:	November 30, 2004
Vehicle Mfr./Make/Model:	Ford Motor Co 2005 Ford Mustang Two-Door Coupe		

TEST VEHICLE IMPACT TYPE:

- Frontal (48.28 kph)
- Oblique (48.28 kph) with _____ ° barrier face first
contacting the _____ side
(driver/passenger)
- Rear Moving Barrier (48.28 kph)
- Lateral Moving Barrier (32.19 kph)
- X Side Impact Moving Deformable Barrier (62.0 kph)
contacting the _____ driver side _____ side
(driver/passenger)

FUEL SPILLAGE MEASUREMENT:



1. From impact until vehicle motion ceases
2. For five minute period after vehicle motion ceases
3. For next 25 minutes

ACTUAL	MAX ALLOWED
0 g	28 g
0 g	142 g
0 g	28 g/1 min.

SOLVENT SPILLAGE DETAILS:

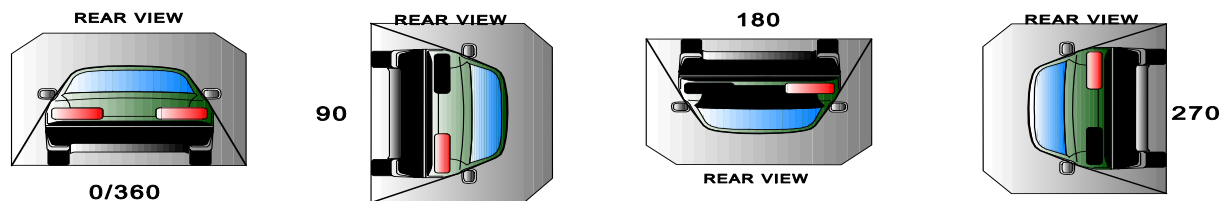
None

DATA SHEET 17

ROLLOVER DATA

Vehicle: 2005 Ford Mustang Two-Door Coupe

NHTSA No.: C50202



I. DETERMINATION OF SOLVENT COLLECTION TIME PERIOD:

Rollover Stage	Rotation Time (spec. 1 -3 min)				FMVSS 301 Hold Time		Total Time				Next Whole Minute Interval	
0° - 90°	1	minutes	12	seconds	5	minutes	6	minutes	12	seconds	7	minutes
90° - 180°	1	minutes	08	seconds	5	minutes	6	minutes	8	seconds	7	minutes
180°-270°	1	minutes	03	seconds	5	minutes	6	minutes	3	seconds	7	minutes
270°-360°	1	minutes	09	seconds	5	minutes	6	minutes	9	seconds	7	minutes

II. FMVSS 301 REQUIREMENTS: (Maximum allowable solvent spillage):

First 5 minutes from onset of rotation	6th min.	7th min.	8th min. (if required)
142 g	28 g	28 g	28 g

III. ACTUAL TEST VEHICLE SOLVENT SPILLAGE:

Rollover Stage	First 5 minutes from onset of rotation (g)	6th min. (g)	7th min. (g)	8th min. (if required) (g)
0° - 90°	0	0	0	N/A
90° - 180°	0	0	0	N/A
180°-270°	0	0	0	N/A
270°-360°	0	0	0	N/A

Note: Record spillage for whole minute intervals only as determined above.

IV. SOLVENT SPILLAGE LOCATION(S):

Rollover Stage	Spillage Location
0° - 90°	None
90° - 180°	None
180°-270°	None
270°-360°	None

APPENDIX A

PHOTOGRAPHS

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Figure A-1 PRE-TEST FRONTAL VIEW OF TEST VEHICLE



Figure A-2 POST-TEST FRONTAL VIEW OF TEST VEHICLE



Figure A-3 PRE-TEST REAR VIEW OF TEST VEHICLE



Figure A-4 POST-TEST REAR VIEW OF TEST VEHICLE



Figure A-5 PRE-TEST IMPACTED SIDE VIEW OF TEST VEHICLE



Figure A-6 POST-TEST IMPACTED SIDE VIEW OF TEST VEHICLE



Figure A-7 PRE-TEST LEFT FRONT VIEW OF TEST VEHICLE



Figure A-8 POST-TEST LEFT FRONT VIEW OF TEST VEHICLE



Figure A-9 PRE-TEST LEFT REAR VIEW OF TEST VEHICLE



Figure A-10 POST-TEST LEFT REAR VIEW OF TEST VEHICLE



Figure A-11 PRE-TEST RIGHT FRONT VIEW OF TEST VEHICLE

PHOTOGRAPH IS NOT AVAILABLE

Figure A-12 POST-TEST RIGHT FRONT VIEW OF TEST VEHICLE



Figure A-13 PRE-TEST RIGHT REAR VIEW OF TEST VEHICLE



Figure A-14 POST-TEST RIGHT REAR VIEW OF TEST VEHICLE



Figure A-15 PRE-TEST FRONTAL VIEW OF IMPACTOR FACE



Figure A-16 POST-TEST FRONTAL VIEW OF IMPACTOR FACE



Figure A-17 PRE-TEST LEFT SIDE VIEW OF IMPACTOR FACE



Figure A-18 POST-TEST LEFT SIDE VIEW OF IMPACTOR FACE



Figure A-19 PRE-TEST RIGHT SIDE VIEW OF IMPACTOR FACE



Figure A-20 POST-TEST RIGHT SIDE VIEW OF IMPACTOR FACE



Figure A-21 PRE-TEST TOP VIEW OF IMPACTOR FACE



Figure A-22 POST-TEST TOP VIEW OF IMPACTOR FACE



Figure A-23 PRE-TEST OVERHEAD VIEW OF ALIGNED MDB AND VEHICLE

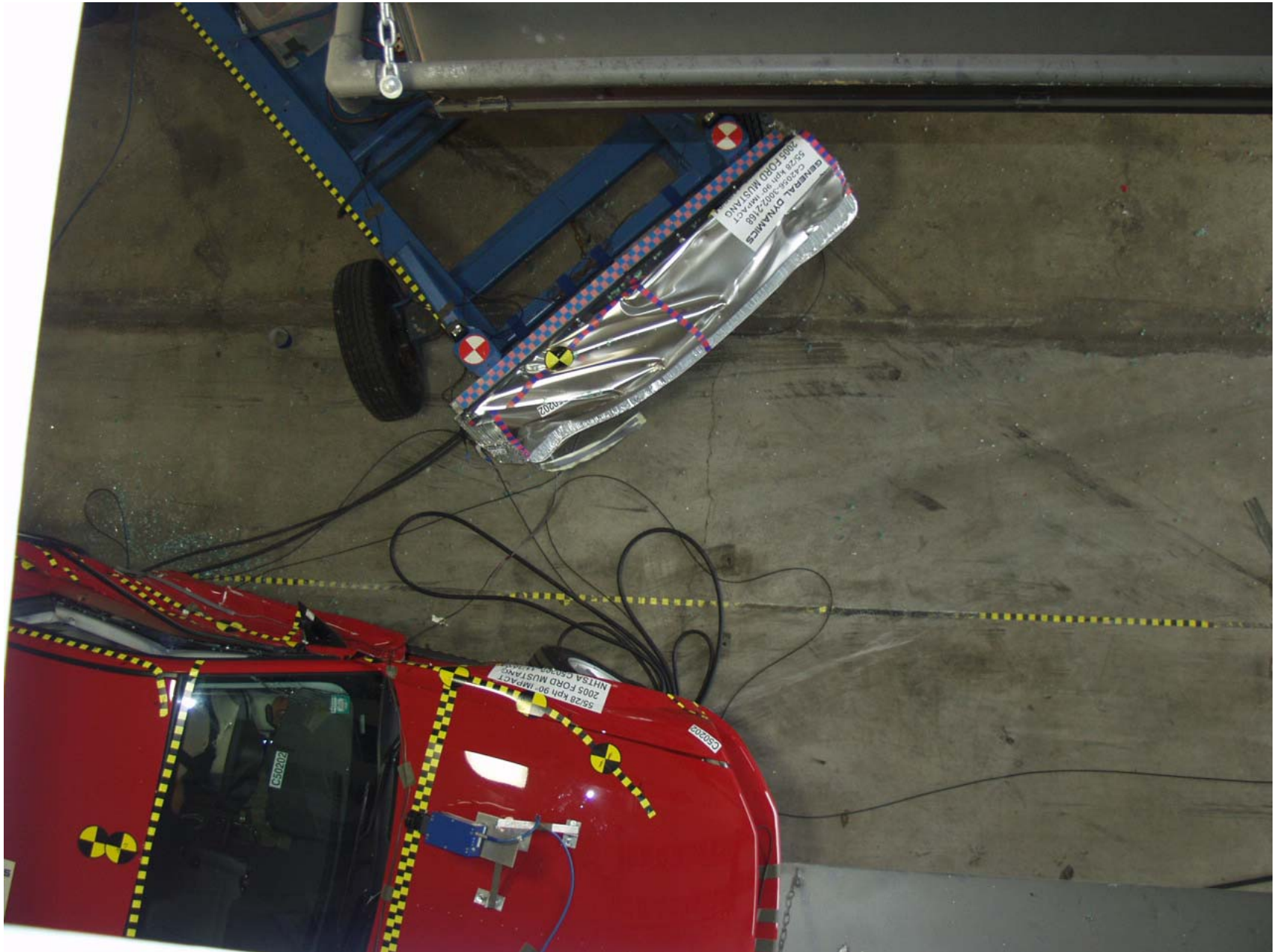


Figure A-24 POST-TEST OVERHEAD VIEW OF MDB AND VEHICLE



Figure A-25 PRE-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3



Figure A-26 POST-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3



Figure A-27 PRE-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF REAR SID H3



Figure A-28 POST-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF REAR SID H3



Figure A-29 PRE-TEST LEFT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3



Figure A-30 POST-TEST LEFT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3



Figure A-31 PRE-TEST LEFT OCCUPANT COMPARTMENT VIEW OF REAR SID H3



Figure A-32 POST-TEST LEFT OCCUPANT COMPARTMENT VIEW OF REAR SID H3



Figure A-33 PRE-TEST INTERIOR OF FRONT DOOR



Figure A-34 POST-TEST INTERIOR OF FRONT DOOR SHOWING SID H3 IMPACT LOCATIONS



Figure A-35 PRE-TEST INTERIOR OF REAR TRIM PANEL



Figure A-36 POST-TEST INTERIOR OF REAR TRIM PANEL SHOWING SID H3 IMPACT LOCATIONS



Figure A-37 PRE-TEST LEFT SIDE VIEW OF MDB WITH IMPACTOR FACE IN POSITION



Figure A-38 PRE-TEST RIGHT SIDE VIEW OF MDB WITH IMPACTOR FACE IN POSITION



Figure A-39 POST-TEST CLOSE-UP VIEW OF IMPACT POINT TARGET

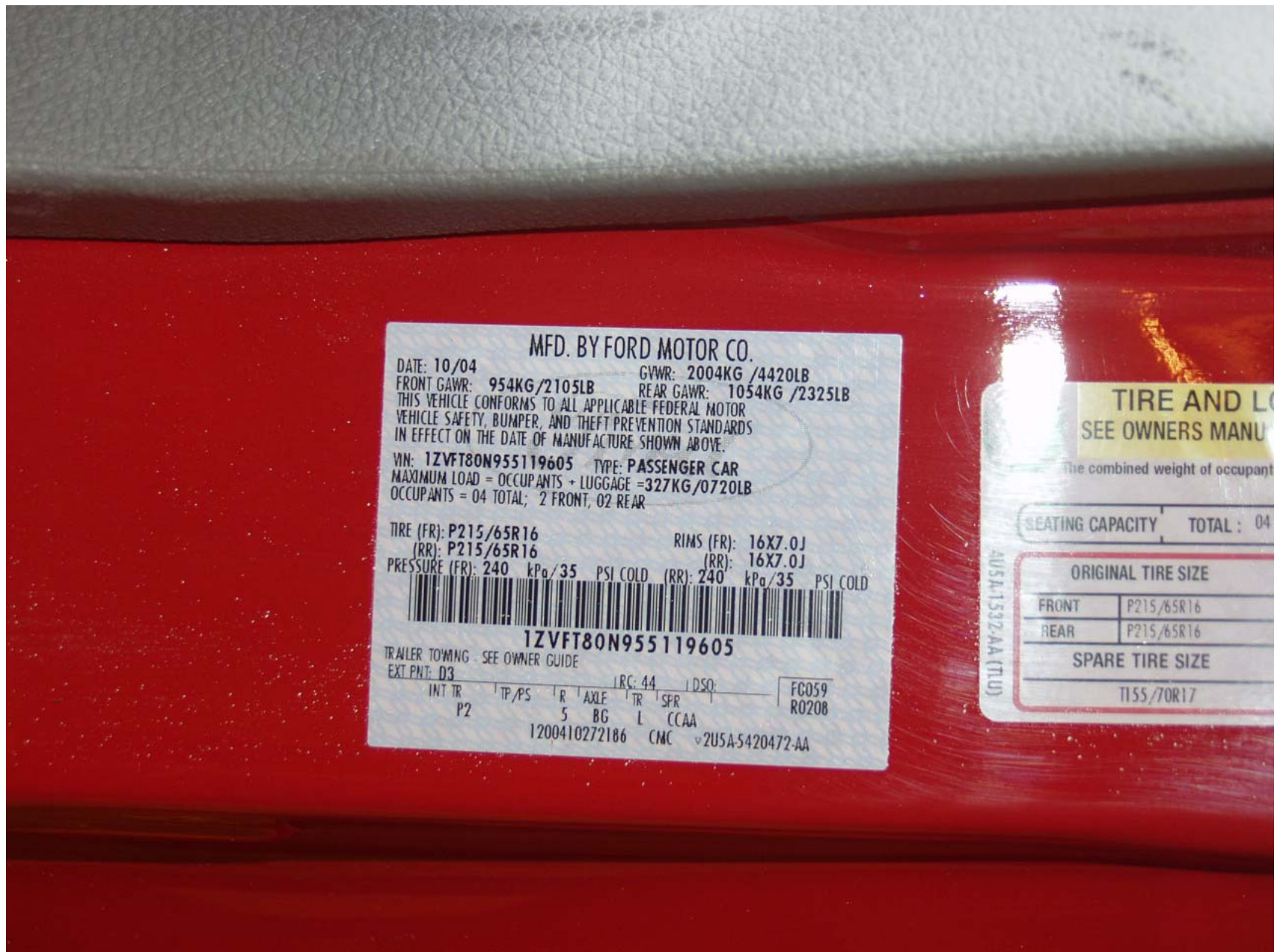


Figure A-40 CLOSE-UP VIEW OF VEHICLE'S CERTIFICATION LABEL



Figure A-41 CLOSE-UP VIEW OF VEHICLE'S TIRE PLACARD LABEL

1,000 fps • Frame: 88



Figure A-42 IMPACT PHOTO



Figure A-43 ROLLOVER 90 DEGREES



Figure A-44 ROLLOVER 180 DEGREES



Figure A-45 ROLLOVER 270 DEGREES



Figure A-46 ROLLOVER 360 DEGREES

APPENDIX B

VEHICLE, MDB AND SID HYBRID III RESPONSE DATA

TABLE OF DATA PLOTS

DRIVER AND PASSENGER DUMMY INSTRUMENTATION PLOTS

ACCELERATION, FORCE AND MOMENT DATA - FILTER CLASS 1000, LOWER SPINE - FILTER CLASS 180
INTEGRATION DATA - FILTER CLASS 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
1	DRIVER HEAD (X) ACCELERATION VS TIME	B- 6
2	DRIVER HEAD (X) VELOCITY VS TIME	B- 7
3	DRIVER HEAD (Y) ACCELERATION VS TIME	B- 8
4	DRIVER HEAD (Y) VELOCITY VS TIME	B- 9
5	DRIVER HEAD (Z) ACCELERATION VS TIME	B- 10
6	DRIVER HEAD (Z) VELOCITY VS TIME	B- 11
7	DRIVER HEAD RESULTANT ACCELERATION VS TIME	B- 12
8	DRIVER UPPER NECK (X) FORCE VS TIME	B- 13
9	DRIVER UPPER NECK (Y) FORCE VS TIME	B- 14
10	DRIVER UPPER NECK (Z) FORCE VS TIME	B- 15
11	DRIVER UPPER NECK RESULTANT FORCE VS TIME	B- 16
12	DRIVER UPPER NECK (X) MOMENT VS TIME	B- 17
13	DRIVER UPPER NECK (Y) MOMENT VS TIME	B- 18
14	DRIVER UPPER NECK (Z) MOMENT VS TIME	B- 19
15	DRIVER UPPER NECK RESULTANT MOMENT VS TIME	B- 20
16	DRIVER UPPER RIB (Y) ACCELERATION VS TIME	B- 21
17	DRIVER UPPER RIB (Y) VELOCITY VS TIME	B- 22
18	DRIVER LOWER RIB (Y) ACCELERATION VS TIME	B- 23
19	DRIVER LOWER RIB (Y) VELOCITY VS TIME	B- 24
20	DRIVER LOWER SPINE (Y) ACCELERATION VS TIME	B- 25
21	DRIVER LOWER SPINE (Y) VELOCITY VS TIME	B- 26
22	DRIVER PELVIC (Y) ACCELERATION VS TIME	B- 27
23	DRIVER PELVIC (Y) VELOCITY VS TIME	B- 28
24	PASSENGER HEAD (X) ACCELERATION VS TIME	B- 29
25	PASSENGER HEAD (X) VELOCITY VS TIME	B- 30
26	PASSENGER HEAD (Y) ACCELERATION VS TIME	B- 31
27	PASSENGER HEAD (Y) VELOCITY VS TIME	B- 32
28	PASSENGER HEAD (Z) ACCELERATION VS TIME	B- 33
29	PASSENGER HEAD (Z) VELOCITY VS TIME	B- 34
30	PASSENGER HEAD RESULTANT ACCELERATION VS TIME	B- 35
31	PASSENGER UPPER NECK (X) FORCE VS TIME	B- 36
32	PASSENGER UPPER NECK (Y) FORCE VS TIME	B- 37
33	PASSENGER UPPER NECK (Z) FORCE VS TIME	B- 38
34	PASSENGER UPPER NECK RESULTANT FORCE VS TIME	B- 39
35	PASSENGER UPPER NECK (X) MOMENT VS TIME	B- 40
36	PASSENGER UPPER NECK (Y) MOMENT VS TIME	B- 41
37	PASSENGER UPPER NECK (Z) MOMENT VS TIME	B- 42
38	PASSENGER UPPER NECK RESULTANT MOMENT VS TIME	B- 43
39	PASSENGER UPPER RIB (Y) ACCELERATION VS TIME	B- 44
40	PASSENGER UPPER RIB (Y) VELOCITY VS TIME	B- 45
41	PASSENGER LOWER RIB (Y) ACCELERATION VS TIME	B- 46
42	PASSENGER LOWER RIB (Y) VELOCITY VS TIME	B- 47
43	PASSENGER LOWER SPINE (Y) ACCELERATION VS TIME	B- 48
44	PASSENGER LOWER SPINE (Y) VELOCITY VS TIME	B- 49
45	PASSENGER PELVIC (Y) ACCELERATION VS TIME	B- 50
46	PASSENGER PELVIC (Y) VELOCITY VS TIME	B- 51

DRIVER & PASSENGER DUMMY INSTRUMENTATION PLOTS

ACCELERATION DATA - FIR FILTERED

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
47	DRIVER UPPER RIB (Y) ACCELERATION VS TIME	B- 52
48	DRIVER LOWER RIB (Y) ACCELERATION VS TIME	B- 53
49	DRIVER LOWER SPINE (Y) ACCELERATION VS TIME	B- 54
50	DRIVER PELVIC (Y) ACCELERATION VS TIME	B- 55
51	PASSENGER UPPER RIB (Y) ACCELERATION VS TIME	B- 56
52	PASSENGER LOWER RIB (Y) ACCELERATION VS TIME	B- 57
53	PASSENGER LOWER SPINE (Y) ACCELERATION VS TIME	B- 58
54	PASSENGER PELVIC (Y) ACCELERATION VS TIME	B- 59

TEST VEHICLE INSTRUMENTATION PLOTS
ACCELERATION DATA - FILTER CLASS 60
INTEGRATION DATA - FILTER CLASS 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
55	RIGHT SIDE SILL AT FRONT SEAT (X) ACCELERATION VS TIME	B- 60
56	RIGHT SIDE SILL AT FRONT SEAT (X) VELOCITY VS TIME	B- 61
57	RIGHT SIDE SILL AT FRONT SEAT (Y) ACCELERATION VS TIME	B- 62
58	RIGHT SIDE SILL AT FRONT SEAT (Y) VELOCITY VS TIME	B- 63
59	RIGHT SIDE SILL AT FRONT SEAT (Z) ACCELERATION VS TIME	B- 64
60	RIGHT SIDE SILL AT FRONT SEAT (Z) VELOCITY VS TIME	B- 65
61	RIGHT SIDE SILL AT FRONT SEAT RESULTANT ACCELERATION VS TIME	B- 66
62	RIGHT SIDE SILL AT REAR SEAT (X) ACCELERATION VS TIME	B- 67
63	RIGHT SIDE SILL AT REAR SEAT (X) VELOCITY VS TIME	B- 68
64	RIGHT SIDE SILL AT REAR SEAT (Y) ACCELERATION VS TIME	B- 69
65	RIGHT SIDE SILL AT REAR SEAT (Y) VELOCITY VS TIME	B- 70
66	RIGHT SIDE SILL AT REAR SEAT (Z) ACCELERATION VS TIME	B- 71
67	RIGHT SIDE SILL AT REAR SEAT (Z) VELOCITY VS TIME	B- 72
68	RIGHT SIDE SILL AT REAR SEAT RESULTANT ACCELERATION VS TIME	B- 73
69	REAR FLOORPAN ABOVE AXLE (X) ACCELERATION VS TIME	B- 74
70	REAR FLOORPAN ABOVE AXLE (X) VELOCITY VS TIME	B- 75
71	REAR FLOORPAN ABOVE AXLE (Y) ACCELERATION VS TIME	B- 76
72	REAR FLOORPAN ABOVE AXLE (Y) VELOCITY VS TIME	B- 77
73	REAR FLOORPAN ABOVE AXLE (Z) ACCELERATION VS TIME	B- 78
74	REAR FLOORPAN ABOVE AXLE (Z) VELOCITY VS TIME	B- 79
75	REAR FLOORPAN ABOVE AXLE RESULTANT ACCELERATION VS TIME	B- 80
76	LEFT SIDE SILL AT REAR SEAT (Y) ACCELERATION VS TIME	B- 81
77	LEFT SIDE SILL AT REAR SEAT (Y) VELOCITY VS TIME	B- 82
78	LEFT SIDE SILL AT FRONT SEAT (Y) ACCELERATION VS TIME	B- 83
79	LEFT SIDE SILL AT FRONT SEAT (Y) VELOCITY VS TIME	B- 84
80	RIGHT REAR OCCUPANT COMPARTMENT (Y) ACCELERATION VS TIME	B- 85
81	RIGHT REAR OCCUPANT COMPARTMENT (Y) VELOCITY VS TIME	B- 86
82	LOWER B-POST (Y) ACCELERATION VS TIME	B- 87
83	LOWER B-POST (Y) VELOCITY VS TIME	B- 88
84	UPPER B-POST (Y) ACCELERATION VS TIME	B- 89
85	UPPER B-POST (Y) VELOCITY VS TIME	B- 90
86	LOWER A-POST (Y) ACCELERATION VS TIME	B- 91
87	LOWER A-POST (Y) VELOCITY VS TIME	B- 92
88	UPPER A-POST (Y) ACCELERATION VS TIME	B- 93
89	UPPER A-POST (Y) VELOCITY VS TIME	B- 94
90	FRONT SEAT TRACK (Y) ACCELERATION VS TIME	B- 95
91	FRONT SEAT TRACK (Y) VELOCITY VS TIME	B- 96
92	REAR SEAT TRACK (Y) ACCELERATION VS TIME	B- 97
93	REAR SEAT TRACK (Y) VELOCITY VS TIME	B- 98

TEST VEHICLE INSTRUMENTATION PLOTS
ACCELERATION DATA - FILTER CLASS 60
INTEGRATION DATA - FILTER CLASS 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
94	VEHICLE CENTER OF GRAVITY (X) ACCELERATION VS TIME	B- 99
95	VEHICLE CENTER OF GRAVITY (X) VELOCITY VS TIME	B- 100
96	VEHICLE CENTER OF GRAVITY (Y) ACCELERATION VS TIME	B- 101
97	VEHICLE CENTER OF GRAVITY (Y) VELOCITY ACCELERATION VS TIME	B- 102
98	VEHICLE CENTER OF GRAVITY (Z) ACCELERATION VS TIME	B- 103
99	VEHICLE CENTER OF GRAVITY (Z) VELOCITY VS TIME	B- 104
100	VEHICLE CENTER OF GRAVITY RESULTANT ACCELERATION VS TIME	B- 105

MDB INSTRUMENTATION PLOTS
ACCELERATION DATA - FILTER CLASS 60
INTEGRATION DATA - FILTER CLASS 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
101	MDB CENTER OF GRAVITY (X) ACCELERATION VS TIME	B- 106
102	MDB CENTER OF GRAVITY (X) VELOCITY VS TIME	B- 107
103	MDB CENTER OF GRAVITY (Y) ACCELERATION VS TIME	B- 108
104	MDB CENTER OF GRAVITY (Y) VELOCITY VS TIME	B- 109
105	MDB CENTER OF GRAVITY (Z) ACCELERATION VS TIME	B- 110
106	MDB CENTER OF GRAVITY (Z) VELOCITY VS TIME	B- 111
107	MDB CENTER OF GRAVITY RESULTANT ACCELERATION VS TIME	B- 112
108	MDB REAR (X) ACCELERATION VS TIME	B- 113
109	MDB REAR (X) VELOCITY VS TIME	B- 114
110	MDB REAR (Y) ACCELERATION VS TIME	B- 115
111	MDB REAR (Y) VELOCITY VS TIME	B- 116

DRIVER & PASSENGER DUMMY INSTRUMENTATION PLOTS (REDUNDANT)
ACCELERATION DATA - FILTER CLASS 1000, LOWER SPINE - FILTER CLASS 180
INTEGRATION DATA - FILTER CLASS 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
112	DRIVER UPPER RIB (Y) ACCELERATION VS TIME	B- 117
113	DRIVER UPPER RIB (Y) VELOCITY VS TIME	B- 118
114	DRIVER LOWER RIB (Y) ACCELERATION VS TIME	B- 119
115	DRIVER LOWER RIB (Y) VELOCITY VS TIME	B- 120
116	DRIVER LOWER SPINE (Y) ACCELERATION VS TIME	B- 121
117	DRIVER LOWER SPINE (Y) VELOCITY VS TIME	B- 122
118	DRIVER PELVIC (Y) ACCELERATION VS TIME	B- 123
119	DRIVER PELVIC (Y) VELOCITY VS TIME	B- 124
120	PASSENGER UPPER RIB (Y) ACCELERATION VS TIME	B- 125
121	PASSENGER UPPER RIB (Y) VELOCITY VS TIME	B- 126
122	PASSENGER LOWER RIB (Y) ACCELERATION VS TIME	B- 127
123	PASSENGER LOWER RIB (Y) VELOCITY VS TIME	B- 128
124	PASSENGER LOWER SPINE (Y) ACCELERATION VS TIME	B- 129
125	PASSENGER LOWER SPINE (Y) VELOCITY VS TIME	B- 130
126	PASSENGER PELVIC (Y) ACCELERATION VS TIME	B- 131
127	PASSENGER PELVIC (Y) VELOCITY VS TIME	B- 132

DRIVER & PASSENGER DUMMY INSTRUMENTATION PLOTS (REDUNDANT)
ACCELERATION DATA - FIR FILTERED

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
128	DRIVER UPPER RIB (Y) ACCELERATION VS TIME	B- 133
129	DRIVER LOWER RIB (Y) ACCELERATION VS TIME	B- 134
130	DRIVER LOWER SPINE (Y) ACCELERATION VS TIME	B- 135
131	DRIVER PELVIC (Y) ACCELERATION VS TIME	B- 136
132	PASSENGER UPPER RIB (Y) ACCELERATION VS TIME	B- 137
133	PASSENGER LOWER RIB (Y) ACCELERATION VS TIME	B- 138
134	PASSENGER LOWER SPINE (Y) ACCELERATION VS TIME	B- 139
135	PASSENGER PELVIC (Y) ACCELERATION VS TIME	B- 140

2005 214 Inducant Test 2 - 2005 Ford Mustang

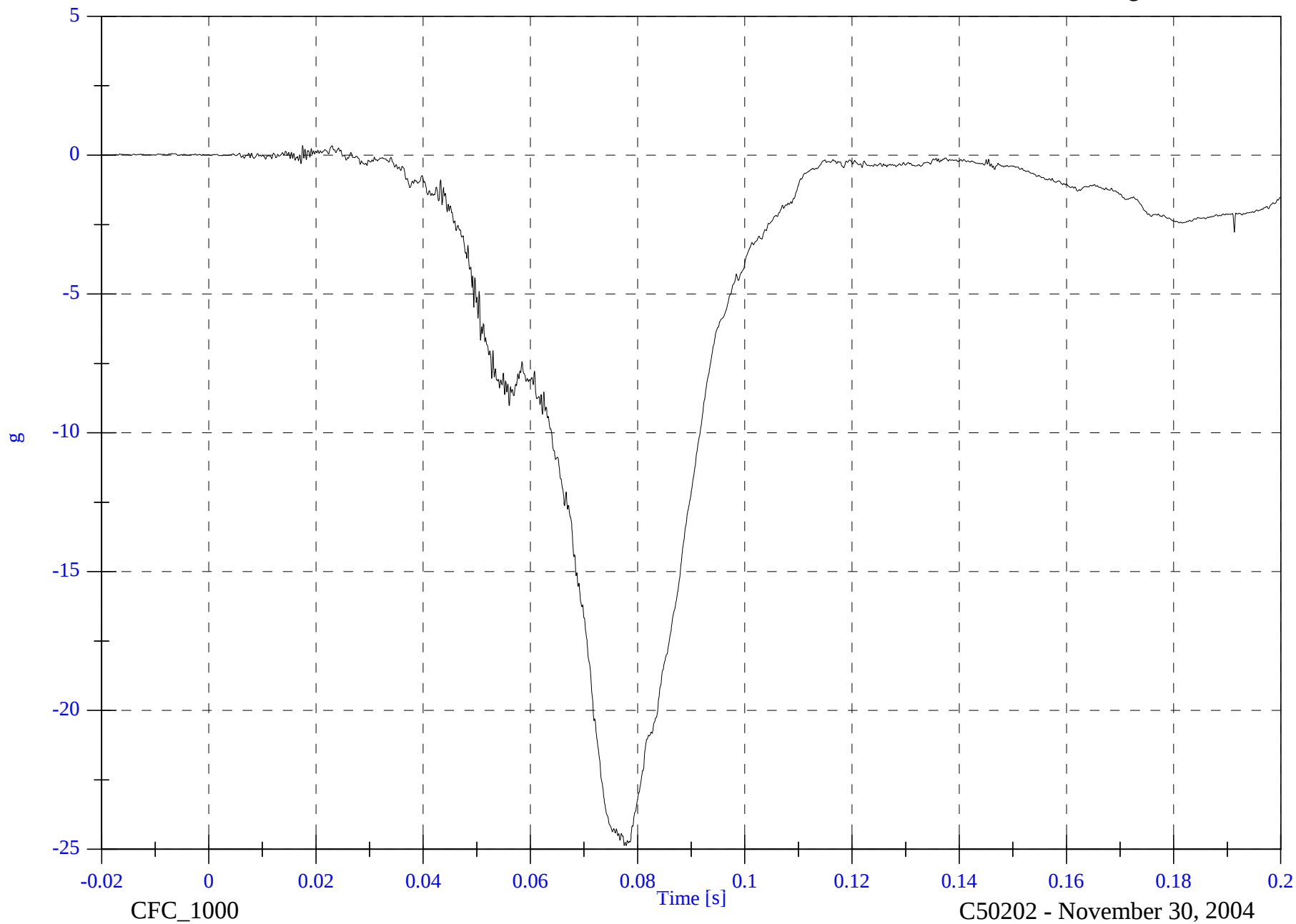
V2P1 Head x

Max: 0.3 [g] at 0.018 [s]

Min: -24.9 [g] at 0.078 [s]

B-6

8675-F214-21

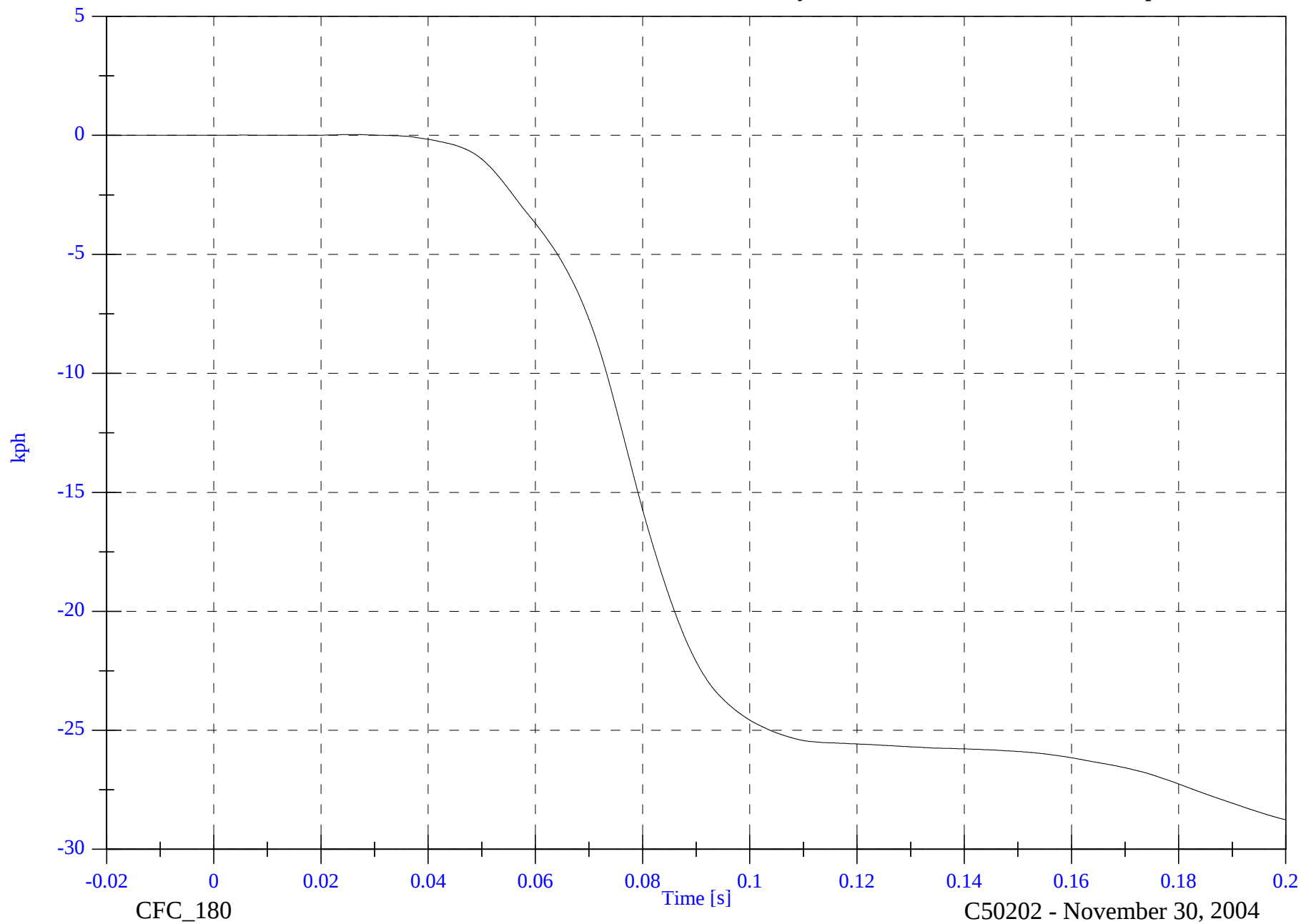


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Head x Velocity

Max: 0.0 [kph] at 0.025 [s]

Min: -28.8 [kph] at 0.200 [s]



B-7

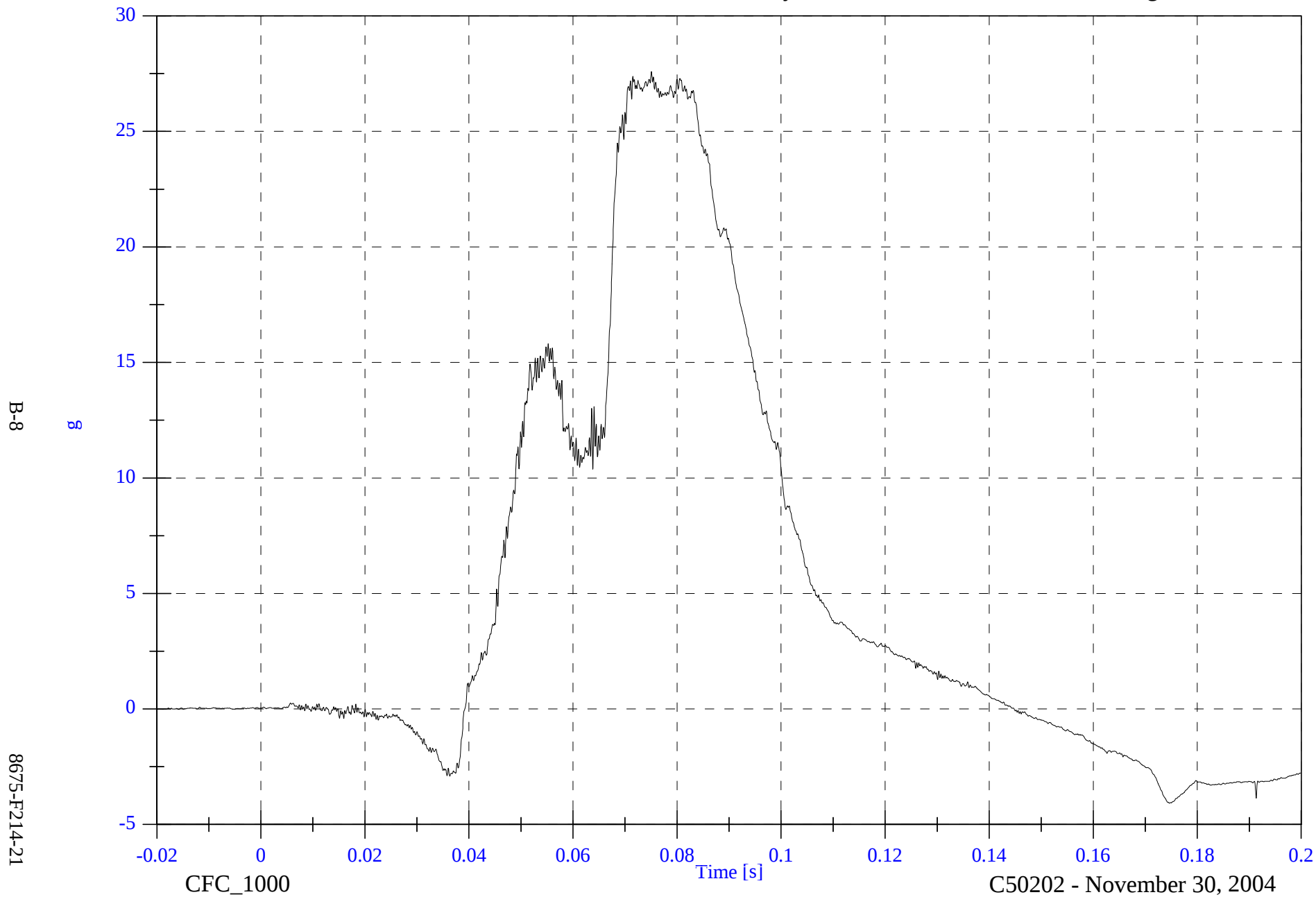
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P1 Head y

Max: 27.6 [g] at 0.075 [s]

Min: -4.1 [g] at 0.175 [s]

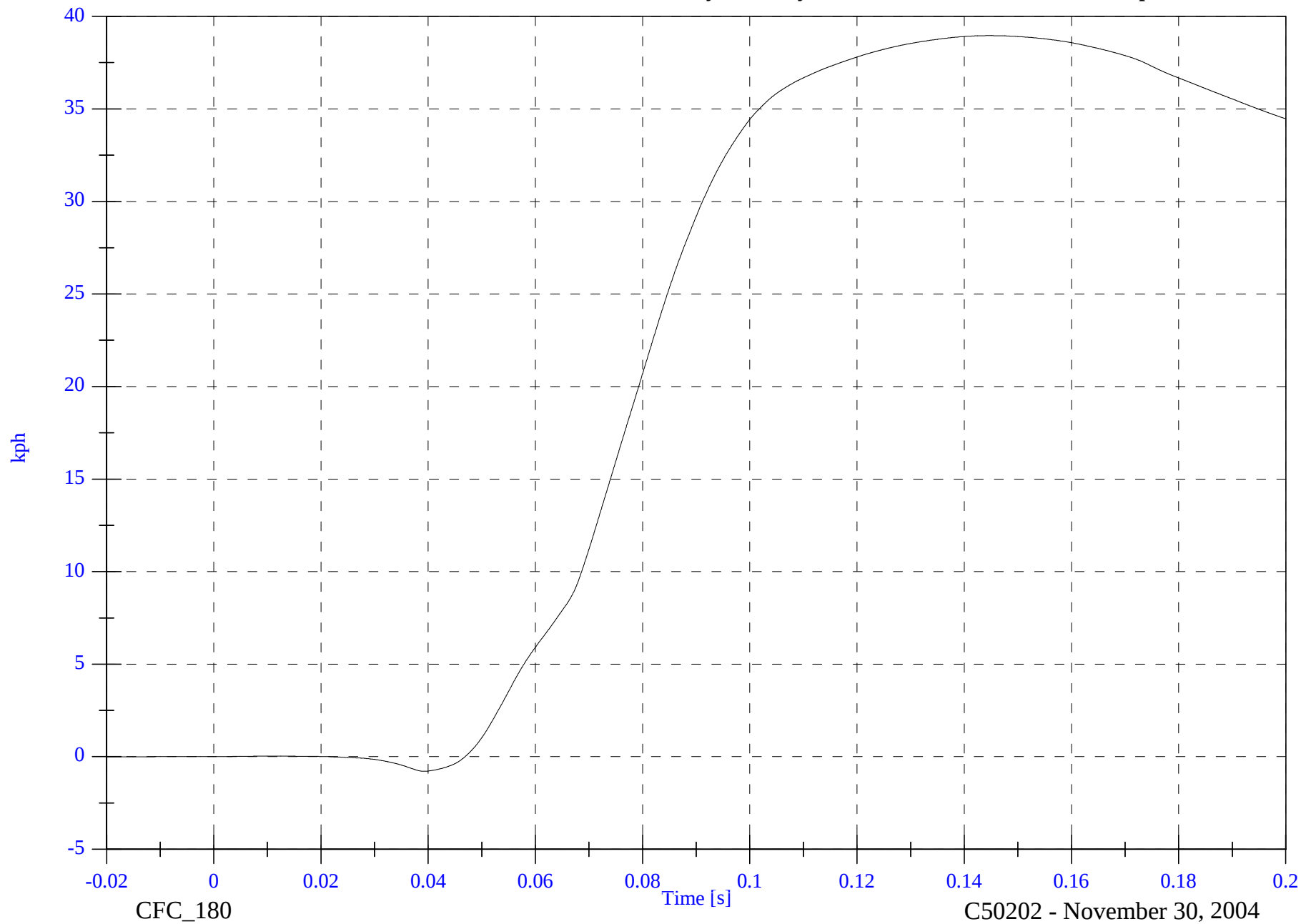


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Head y Velocity

Max: 39.0 [kph] at 0.145 [s]

Min: -0.8 [kph] at 0.039 [s]



B-9

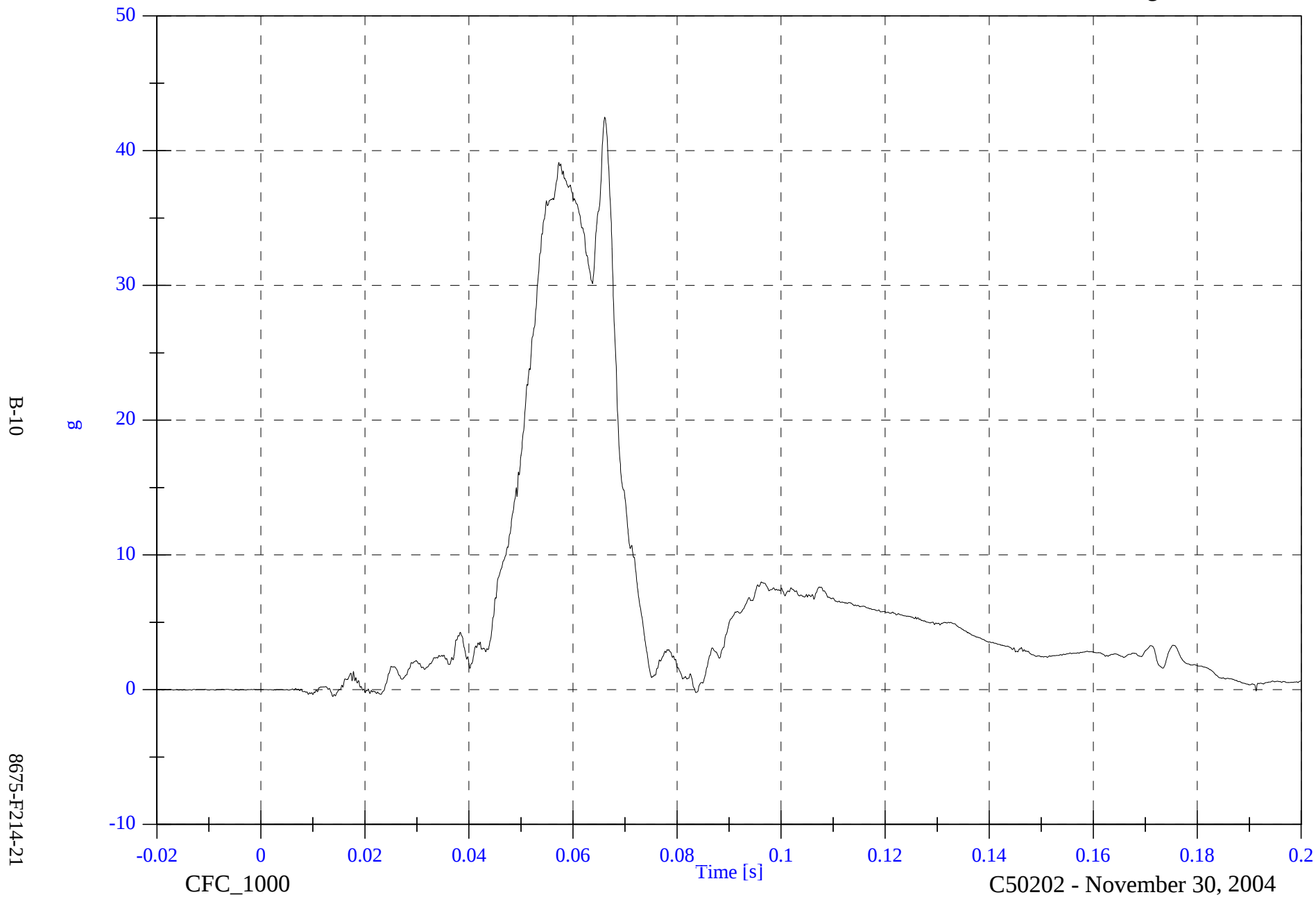
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Head z

Max: 42.5 [g] at 0.066 [s]

Min: -0.5 [g] at 0.014 [s]

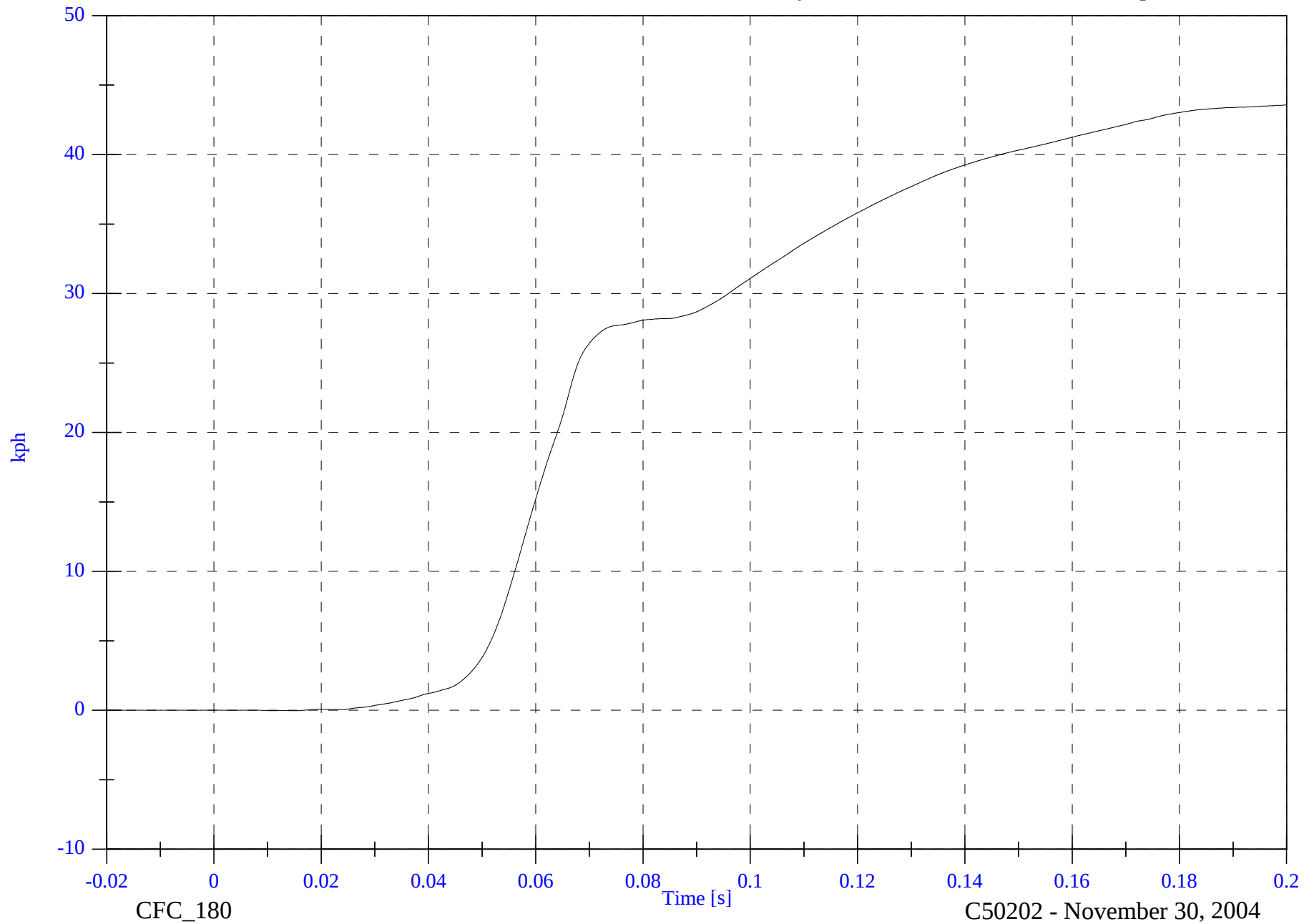


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Head z Velocity

Max: 43.6 [kph] at 0.200 [s]

Min: -0.0 [kph] at 0.015 [s]



B-11

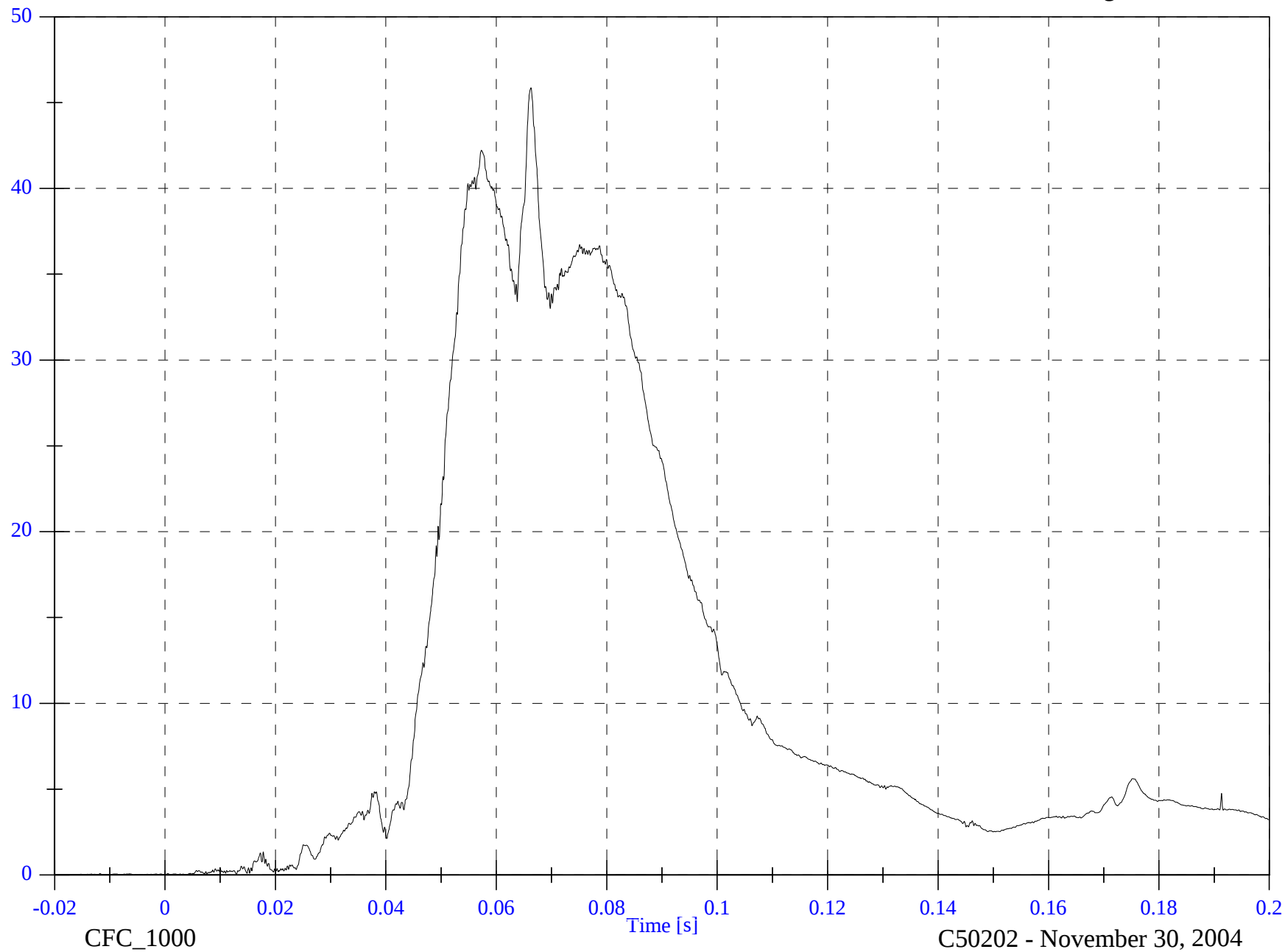
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P1 Head Resultant

Max: 45.9 [g] at 0.066 [s]

Min: 0.0 [g] at -0.006 [s]



B-12

8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P1 Upper Neck Fx

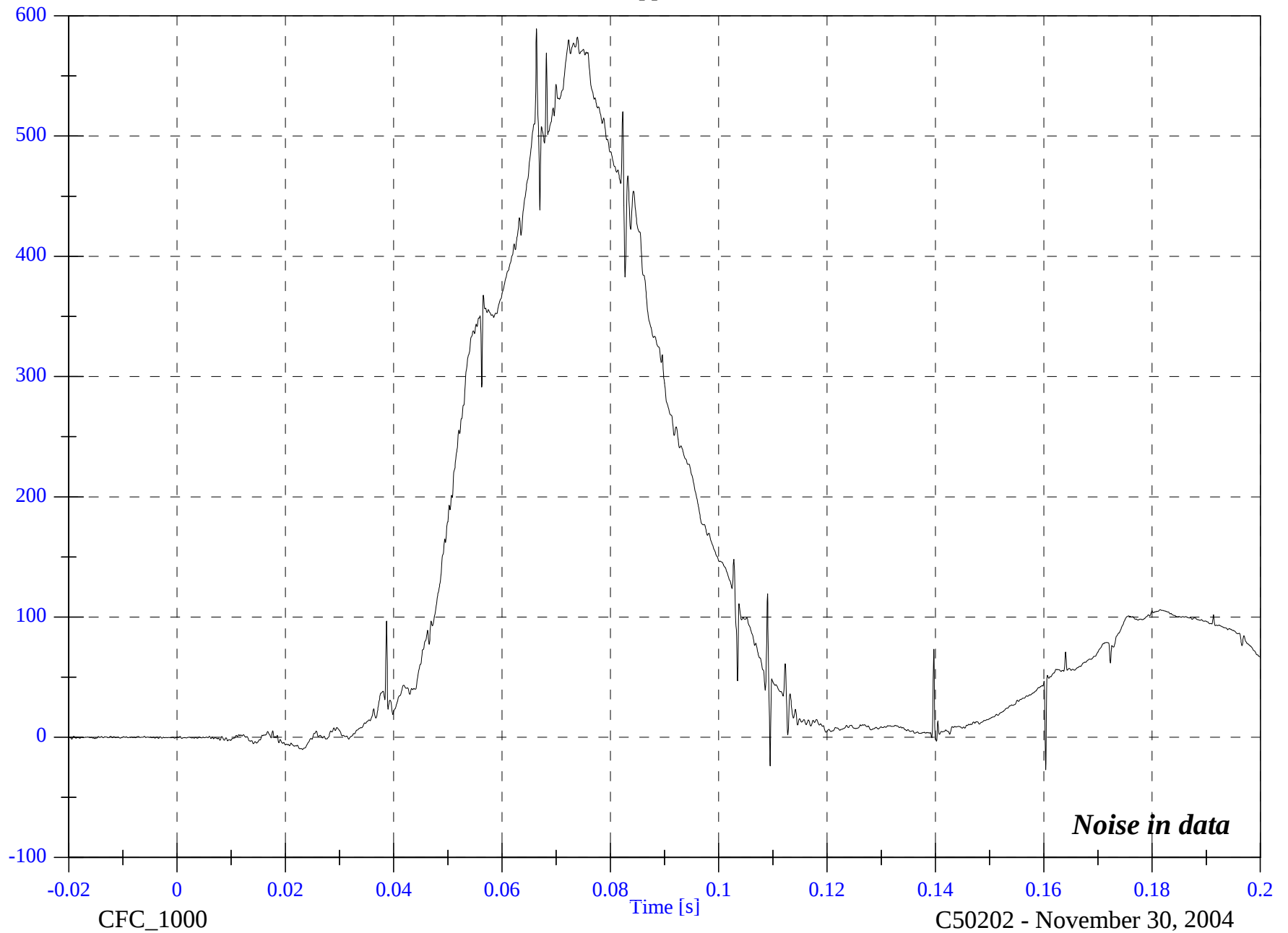
Max: 589.2 [N] at 0.066 [s]

Min: -27.1 [N] at 0.160 [s]

B-13

N

8675-F214-21

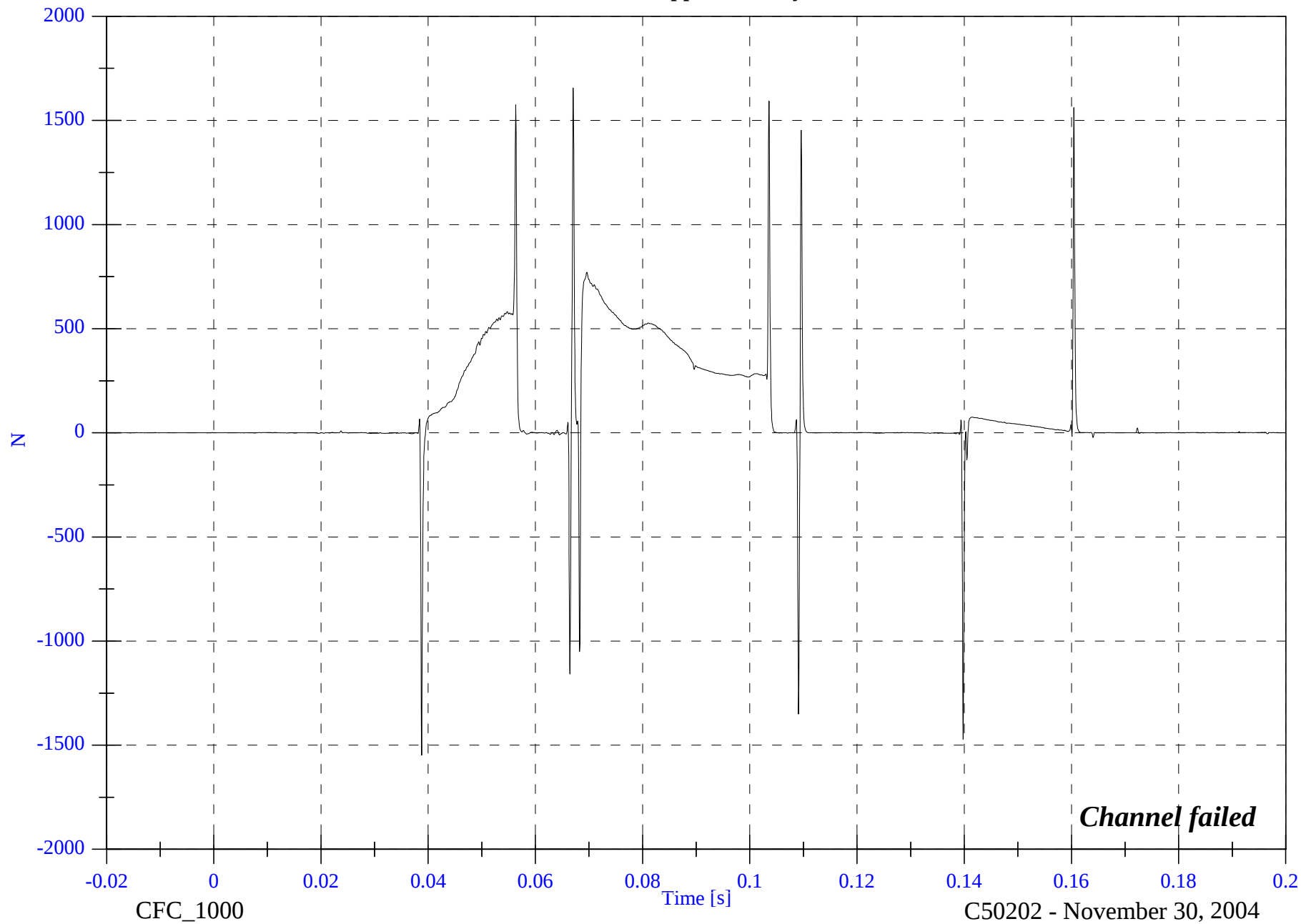


2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P1 Upper Neck Fy

Max: 1656.3 [N] at 0.067 [s]

Min: -1548.1 [N] at 0.039 [s]



B-14

8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

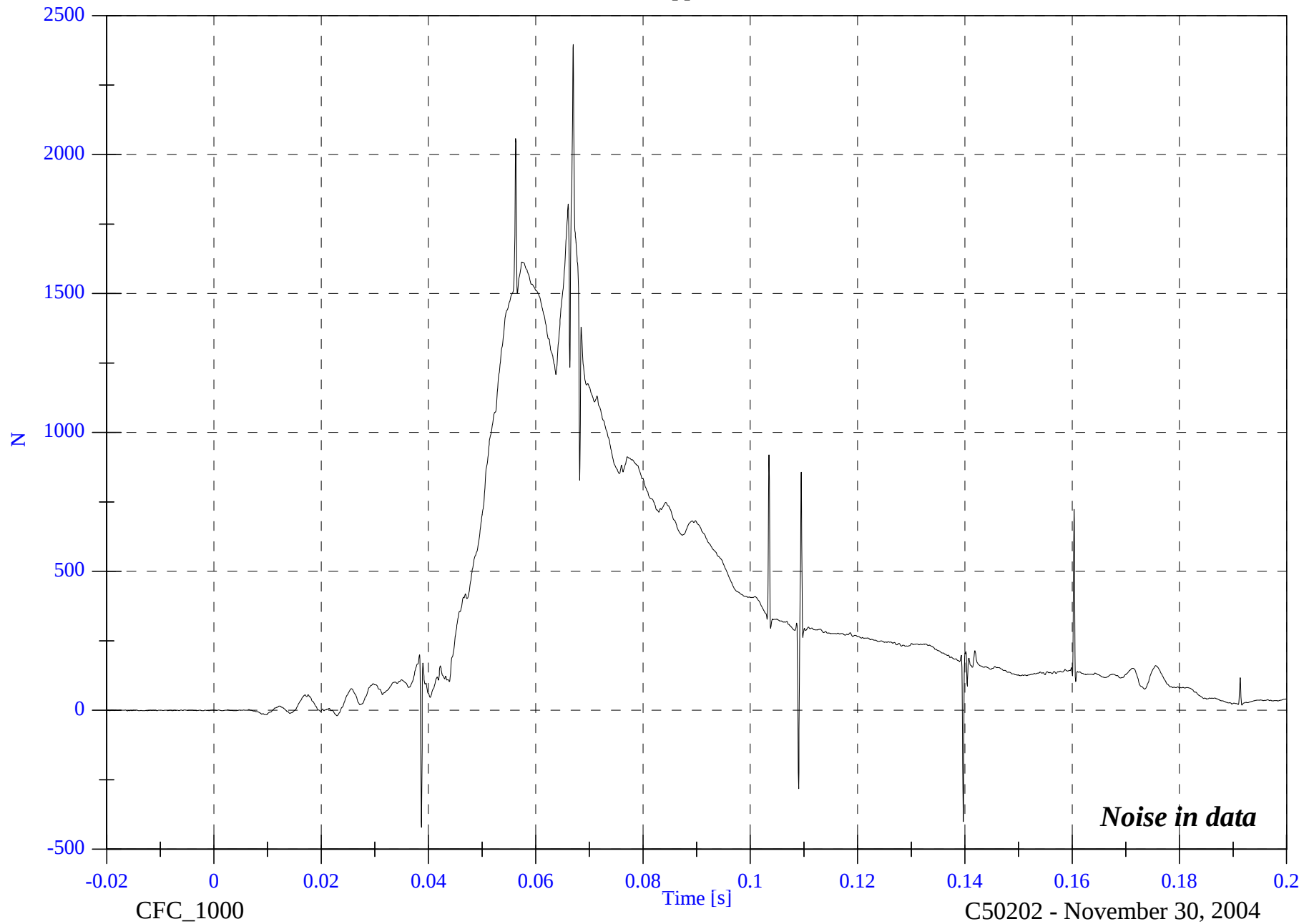
V2P1 Upper Neck Fz

Max: 2396.5 [N] at 0.067 [s]

Min: -421.7 [N] at 0.039 [s]

B-15

8675-F214-21

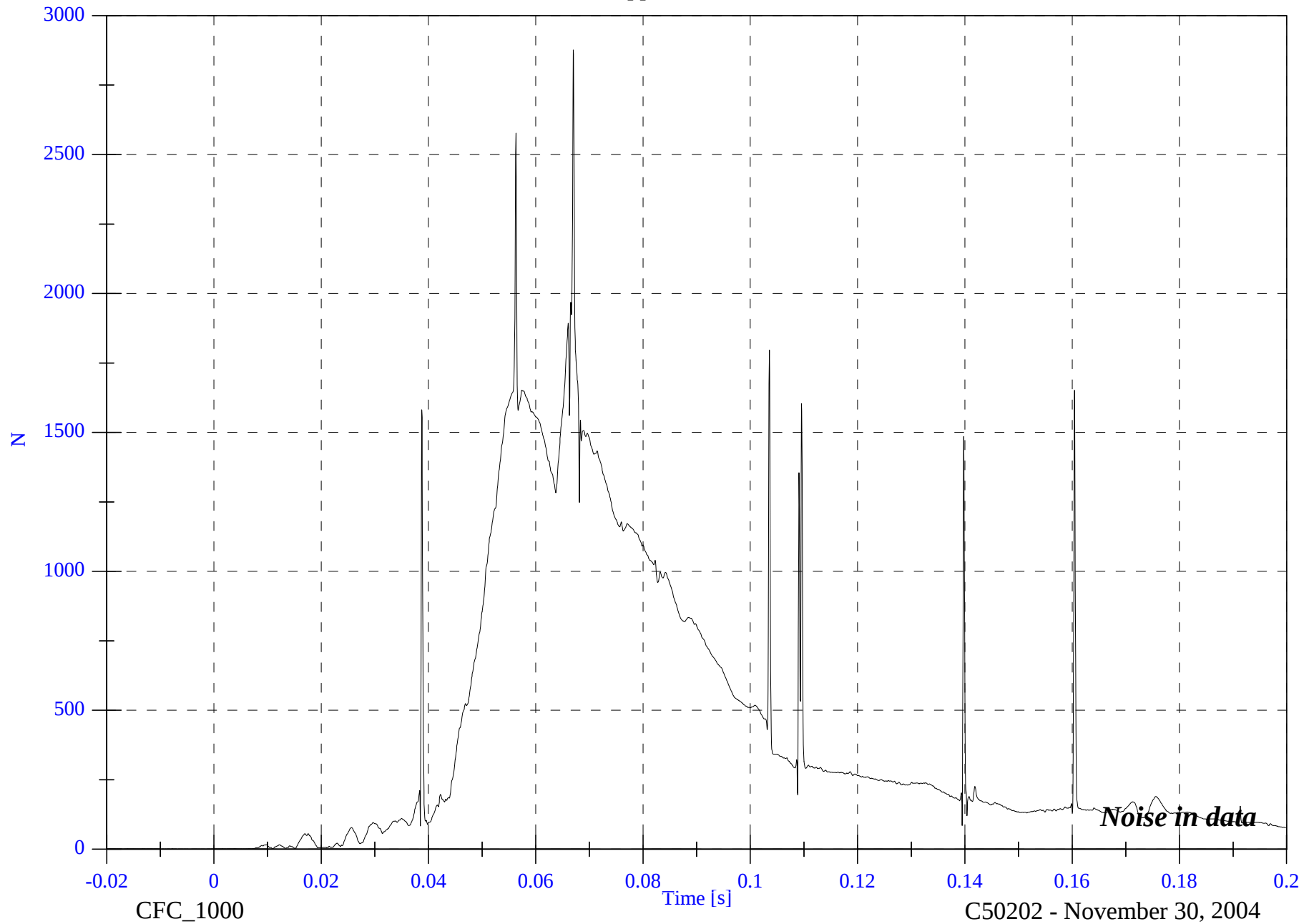


2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P1 Upper Neck F Resultant

Max: 2876.6 [N] at 0.067 [s]

Min: 0.1 [N] at -0.009 [s]

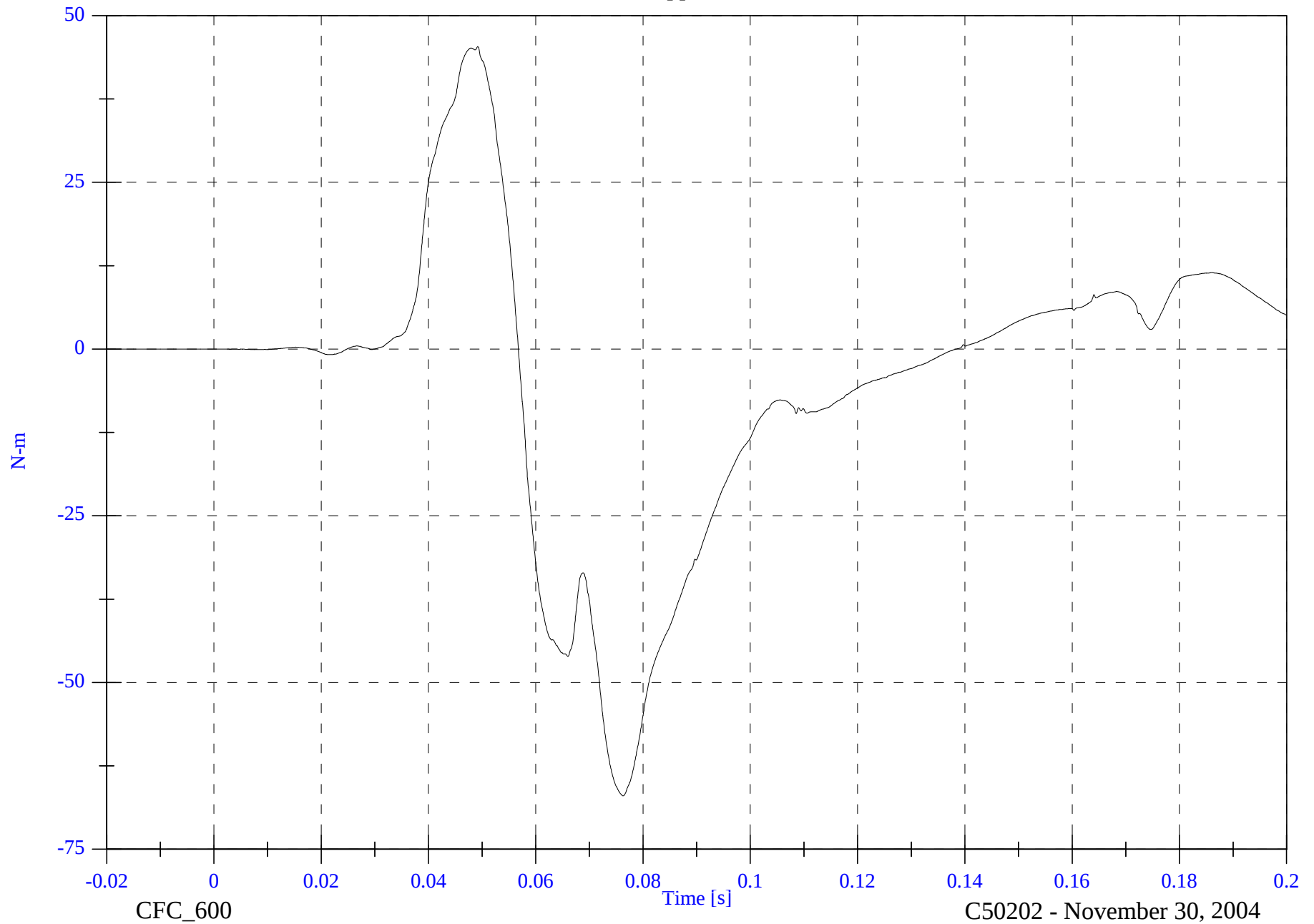


2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P1 Upper Neck Mx

Max: 45.4 [N-m] at 0.049 [s]

Min: -67.0 [N-m] at 0.076 [s]



B-17

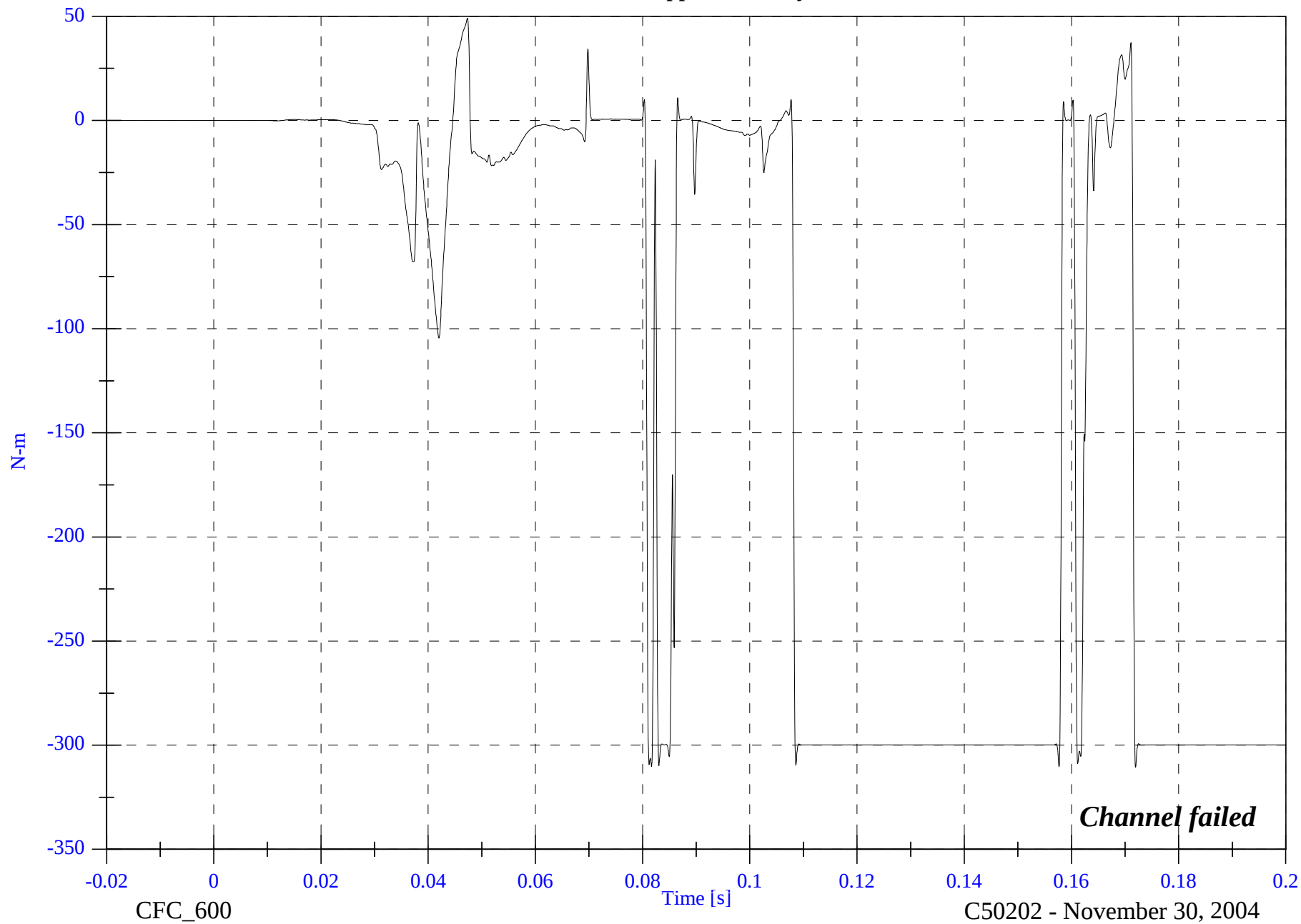
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P1 Upper Neck My

Max: 49.1 [N-m] at 0.047 [s]

Min: -310.6 [N-m] at 0.172 [s]



B-18

8675-F214-21

CFC_600

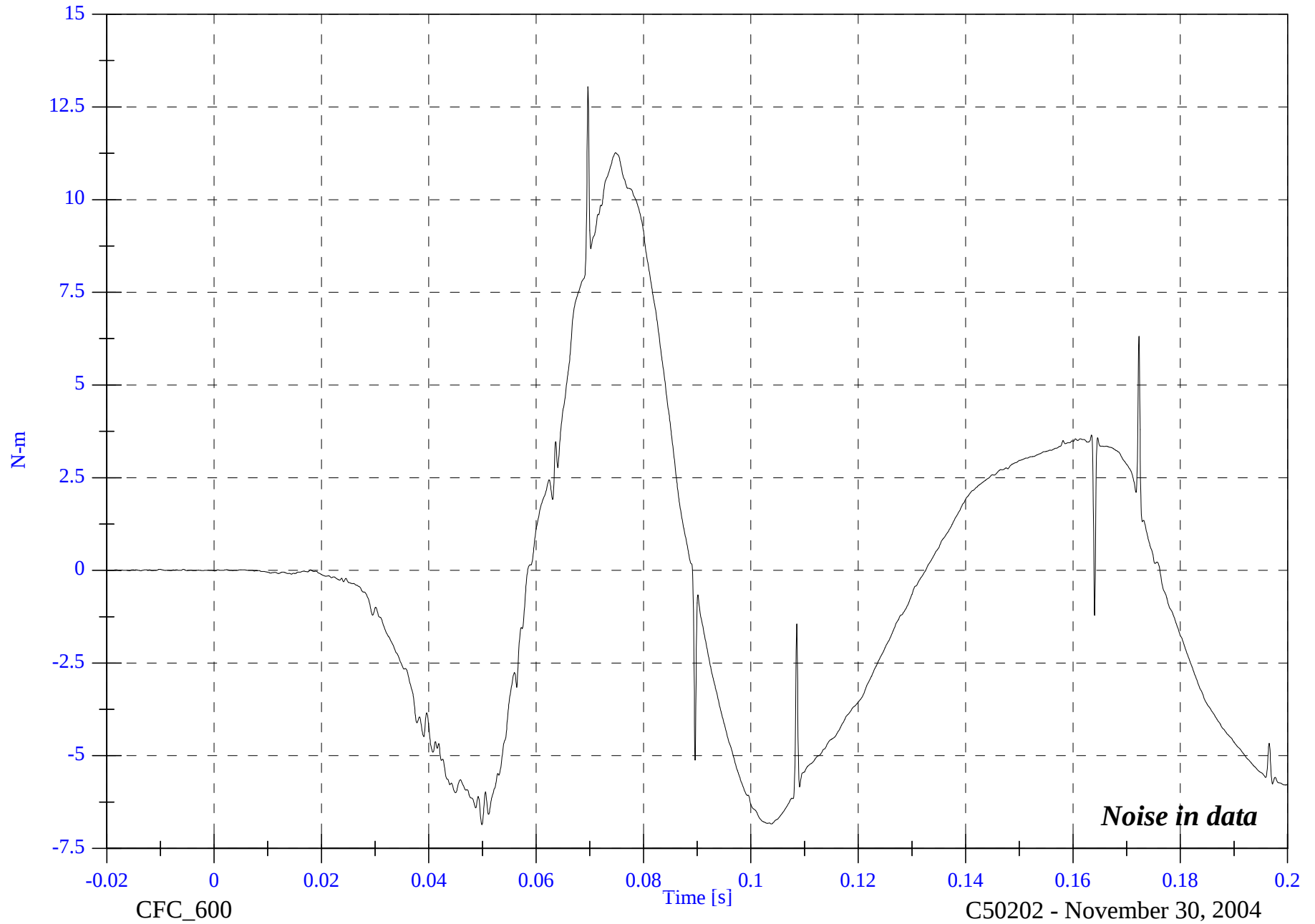
C50202 - November 30, 2004

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P1 Upper Neck Mz

Max: 13.0 [N-m] at 0.070 [s]

Min: -6.9 [N-m] at 0.050 [s]



B-19

8675-F214-21

CFC_600

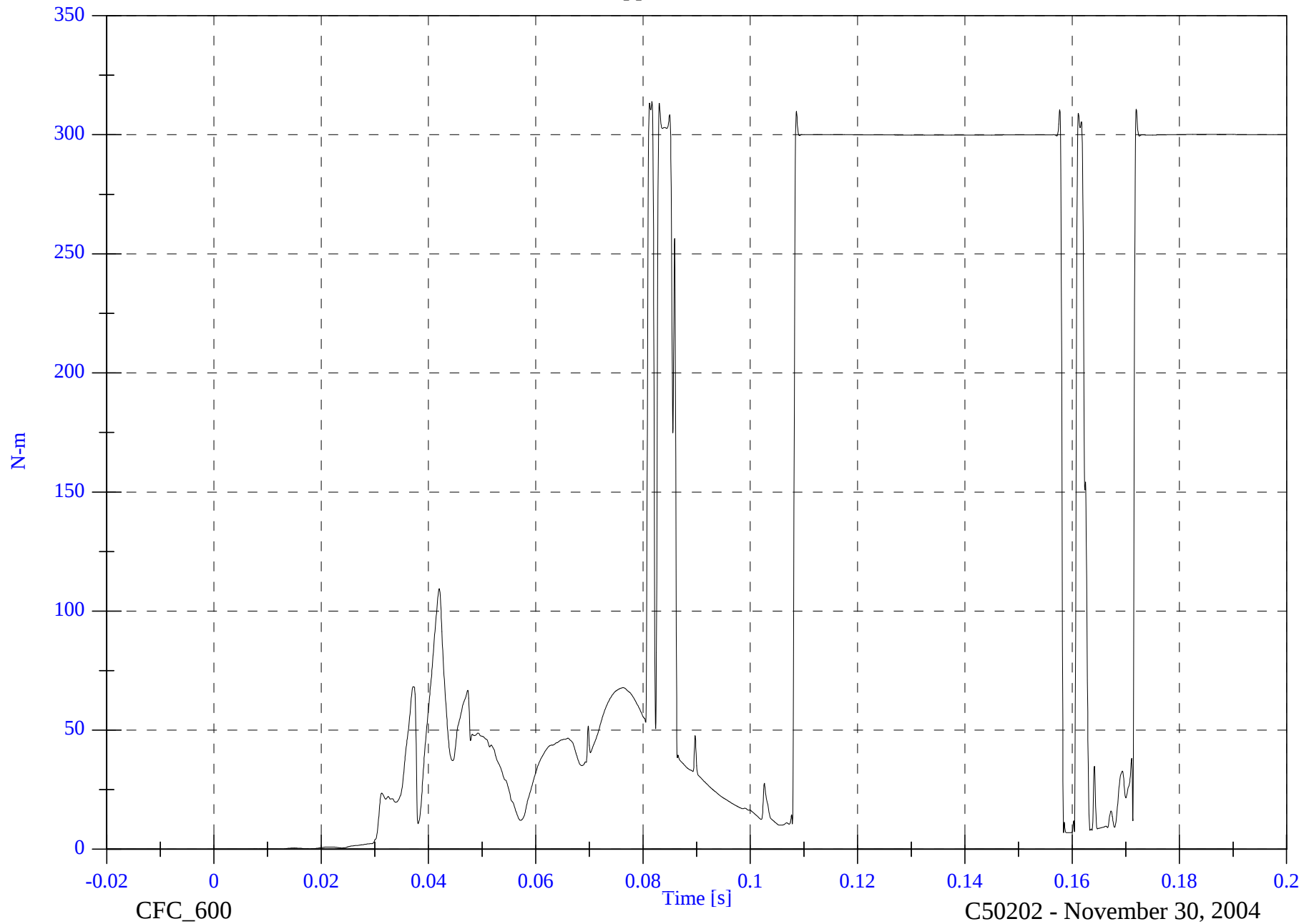
C50202 - November 30, 2004

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P1 Upper Neck M Resultant

Max: 314.0 [N-m] at 0.082 [s]

Min: 0.0 [N-m] at -0.004 [s]



B-20

8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

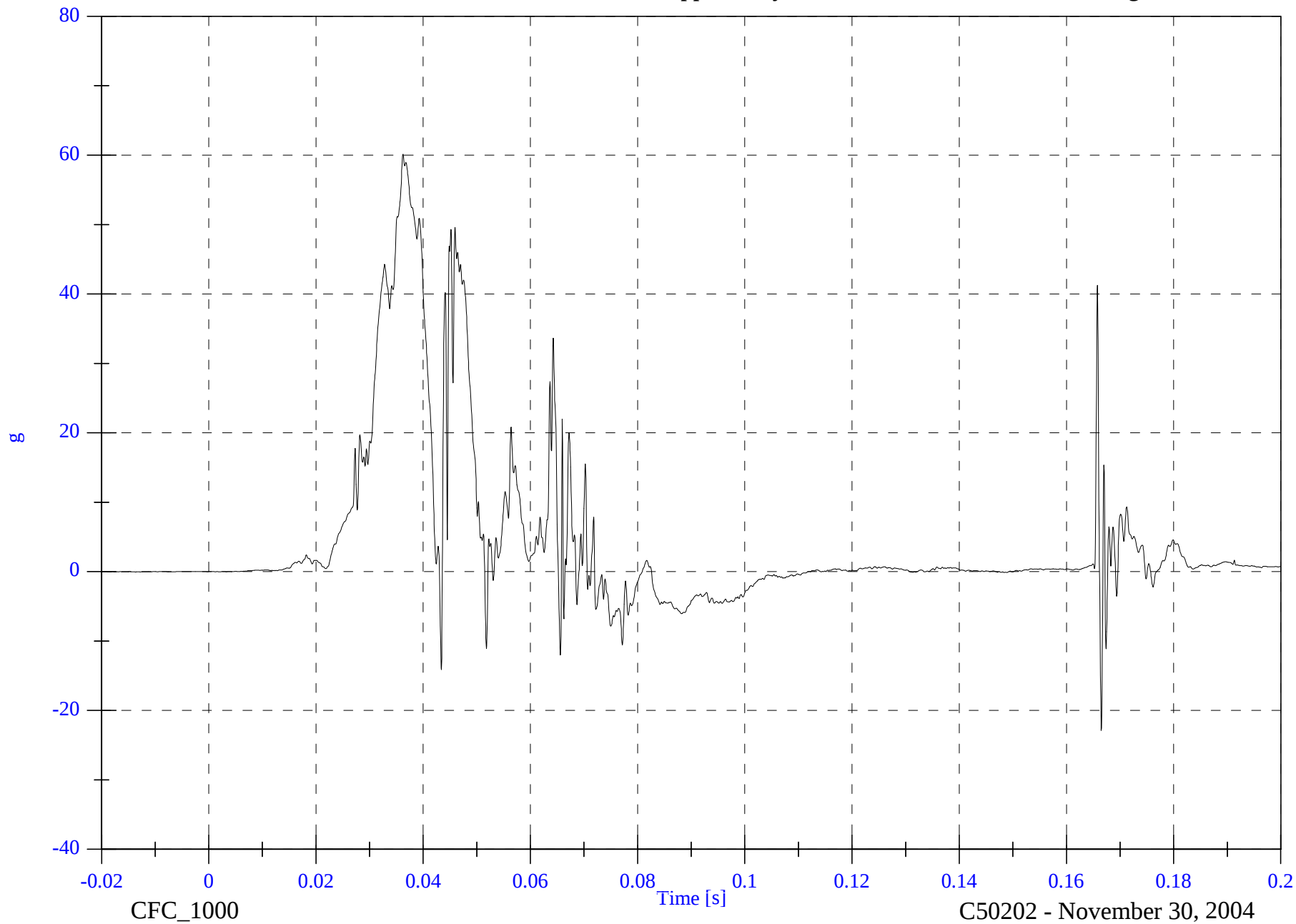
V2P1 Upper Rib y

Max: 60.1 [g] at 0.036 [s]

Min: -22.9 [g] at 0.167 [s]

B-21

8675-F214-21

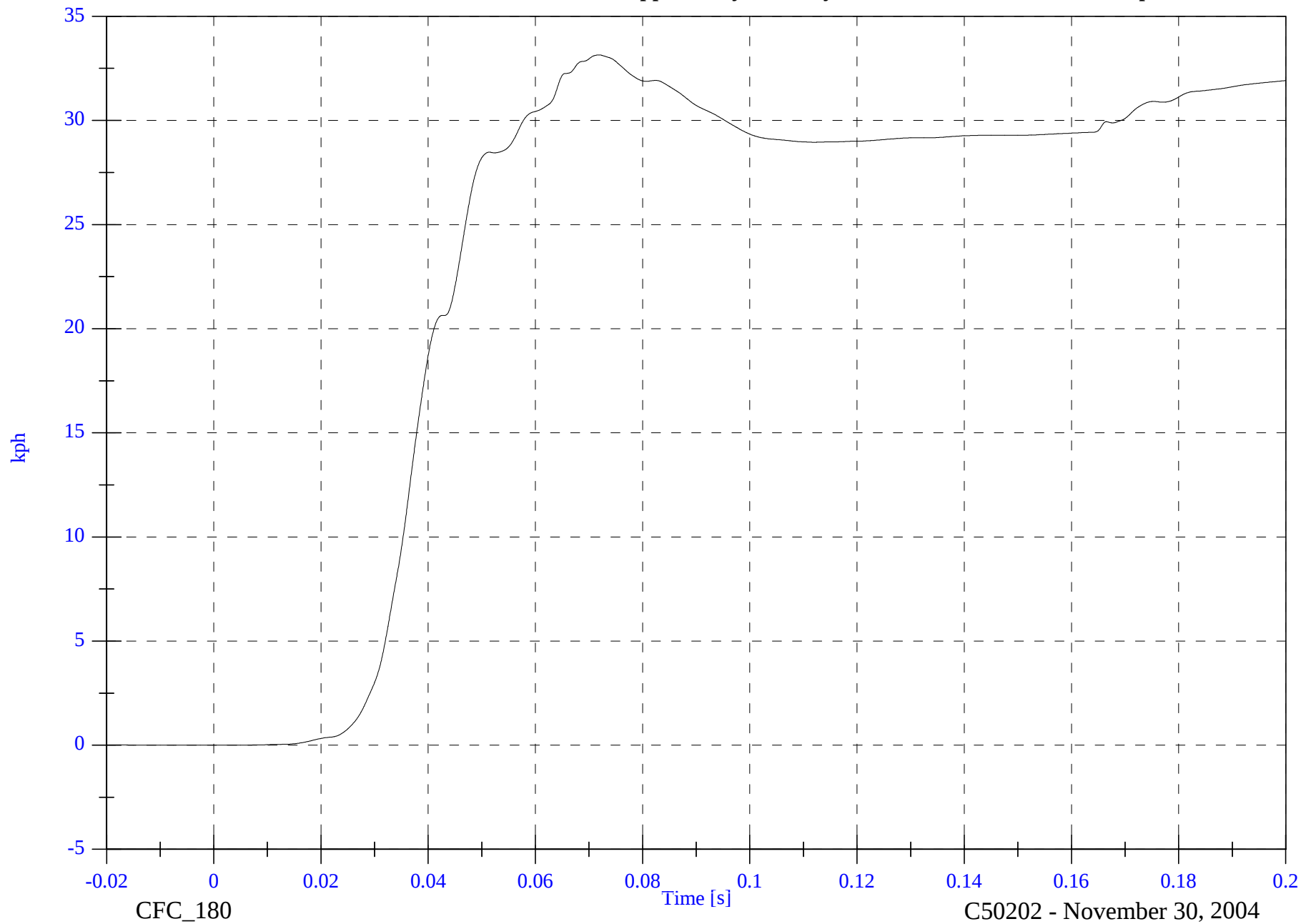


2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P1 Upper Rib y Velocity

Max: 33.1 [kph] at 0.072 [s]

Min: -0.0 [kph] at -0.006 [s]



B-22

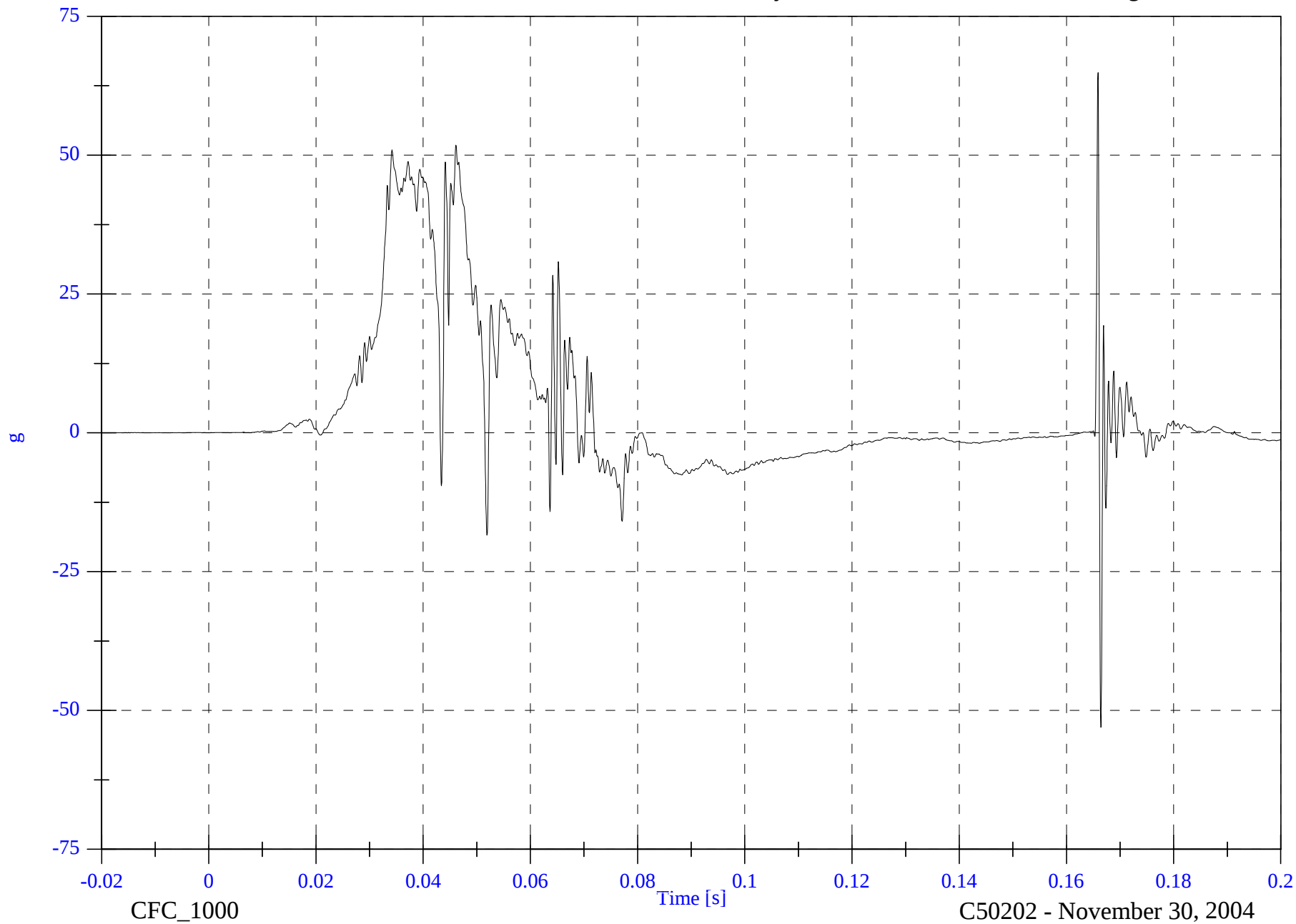
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P1 Lower Rib y

Max: 64.9 [g] at 0.166 [s]

Min: -53.0 [g] at 0.166 [s]



B-23

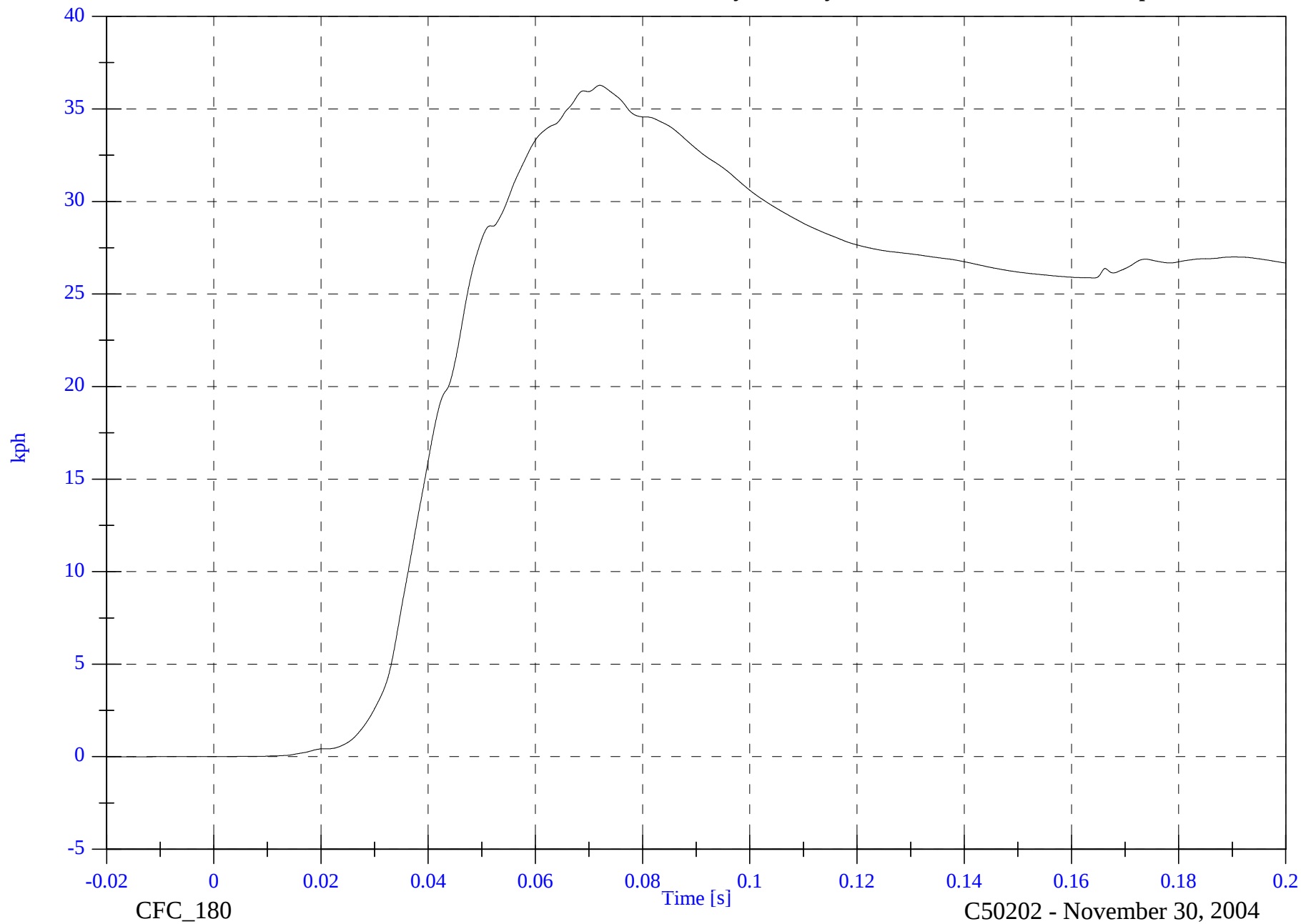
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Lower Rib y Velocity

Max: 36.3 [kph] at 0.072 [s]

Min: -0.0 [kph] at -0.020 [s]



B-24

8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

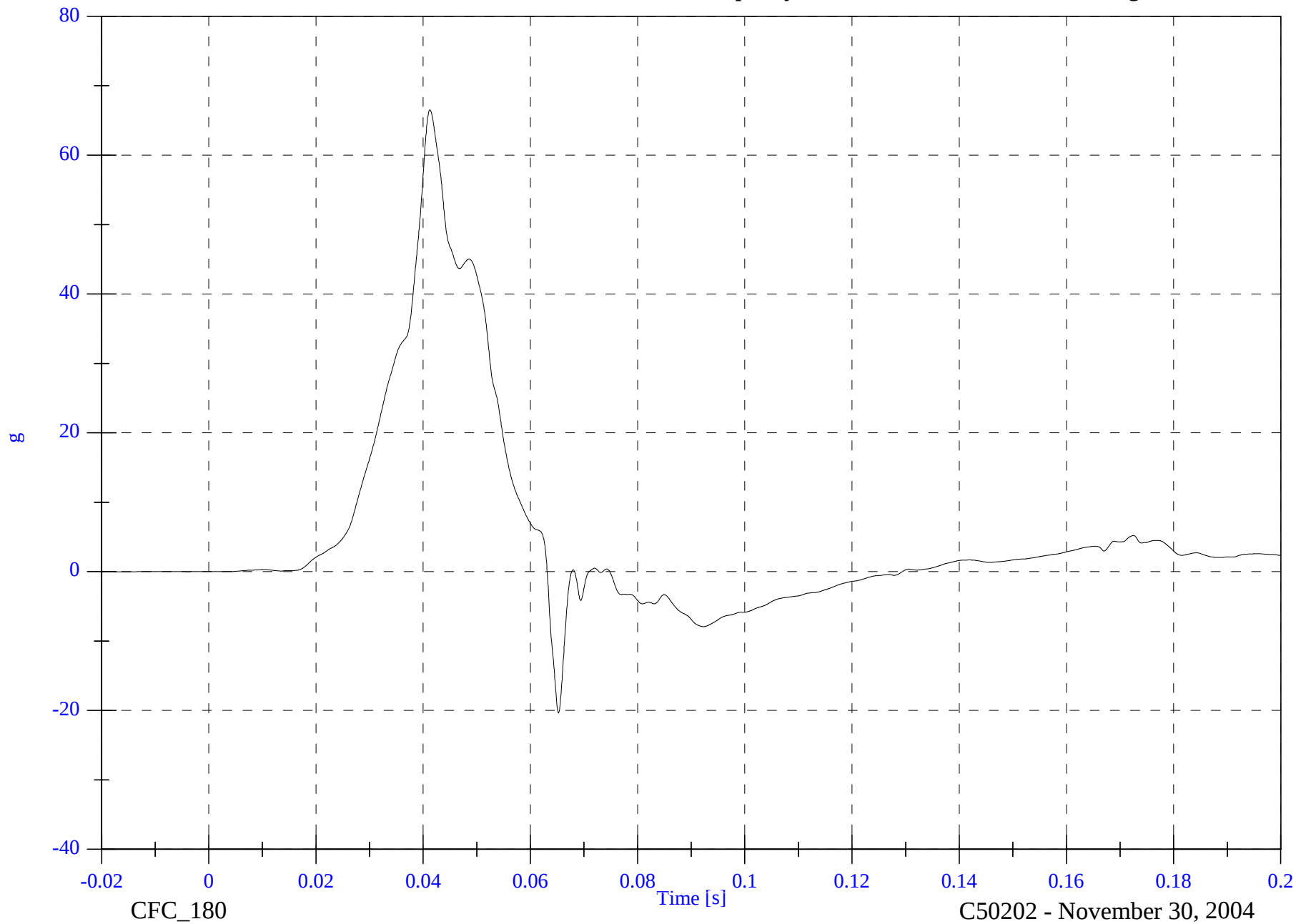
V2P1 Lower Spine y

Max: 66.5 [g] at 0.041 [s]

Min: -20.4 [g] at 0.065 [s]

B-25

8675-F214-21

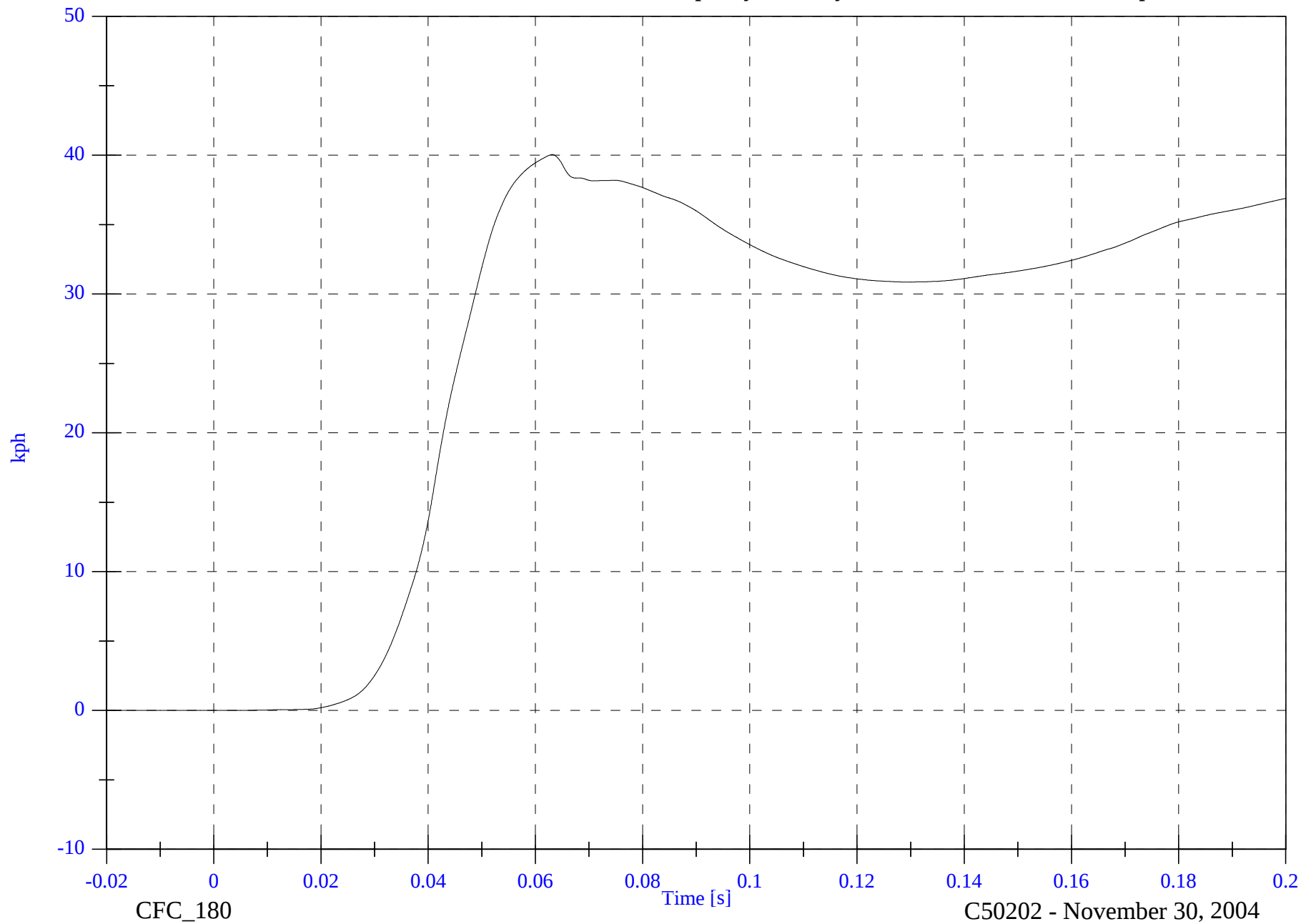


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Lower Spine y Velocity

Max: 40.0 [kph] at 0.063 [s]

Min: -0.0 [kph] at -0.012 [s]



B-26

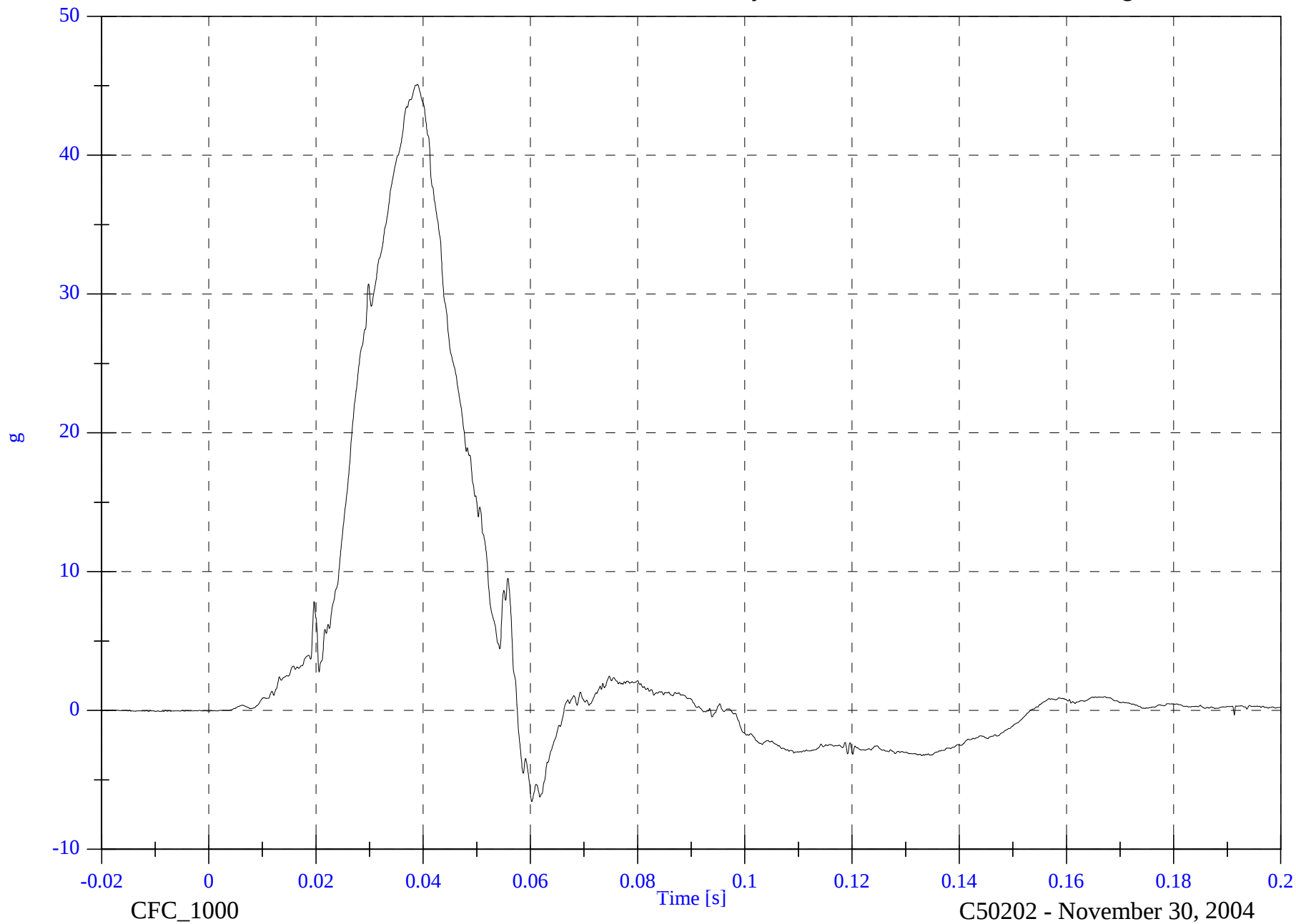
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P1 Pelvic y

Max: 45.1 [g] at 0.039 [s]

Min: -6.6 [g] at 0.060 [s]



B-27

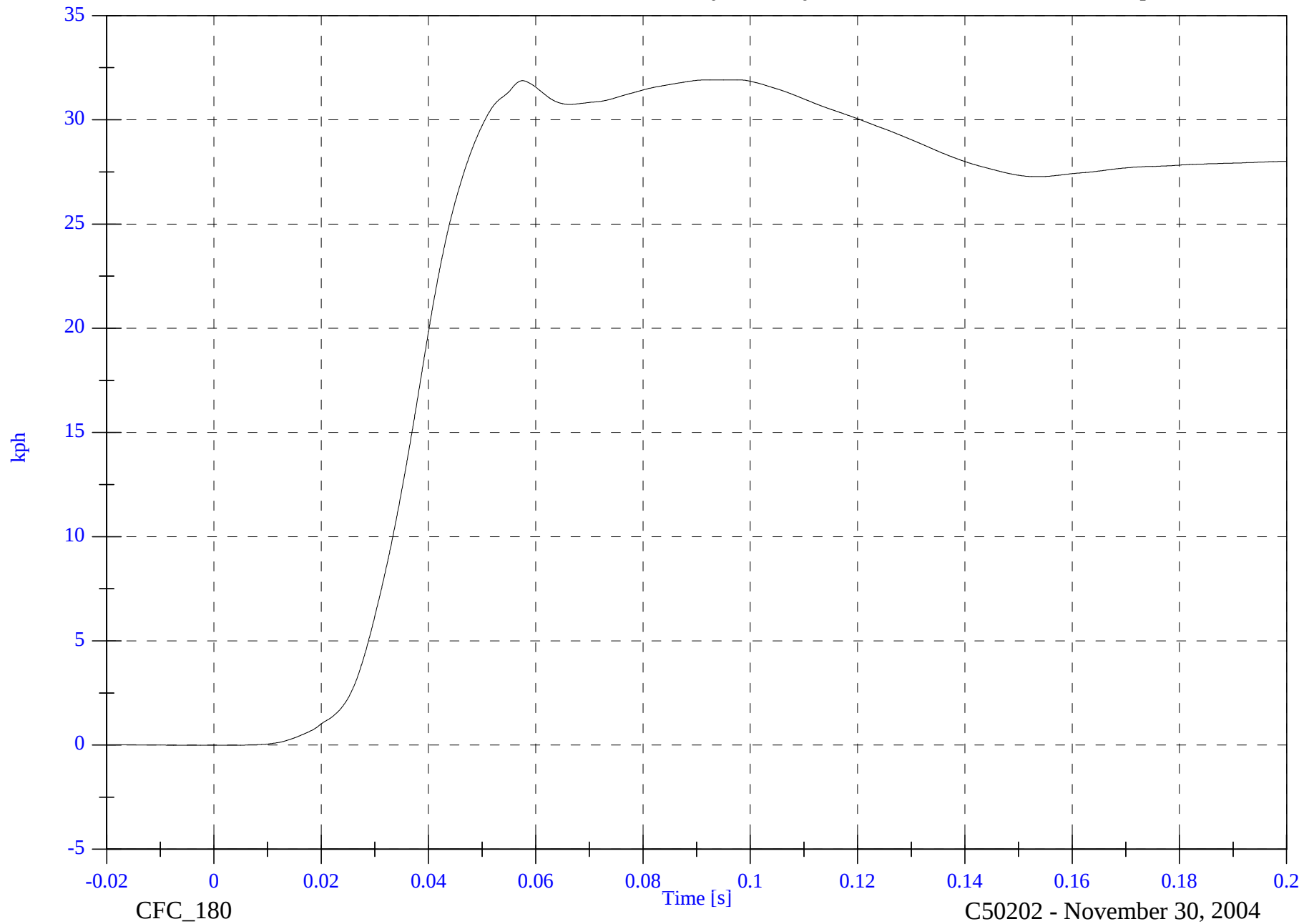
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Pelvic y Velocity

Max: 31.9 [kph] at 0.097 [s]

Min: -0.0 [kph] at 0.003 [s]



B-28

8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

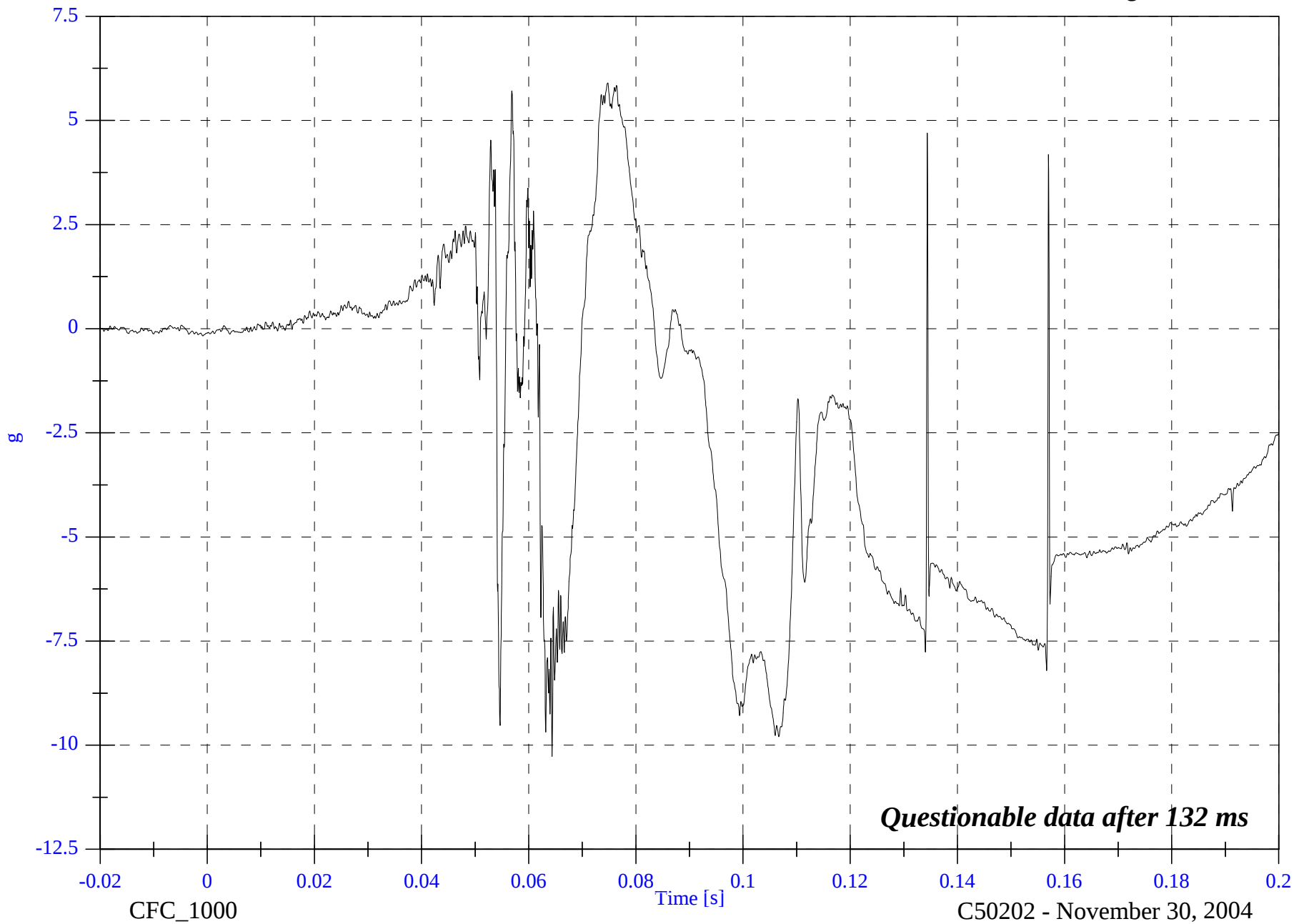
V2P4 Head x

Max: 5.9 [g] at 0.075 [s]

Min: -10.3 [g] at 0.064 [s]

B-29

8675-F214-21

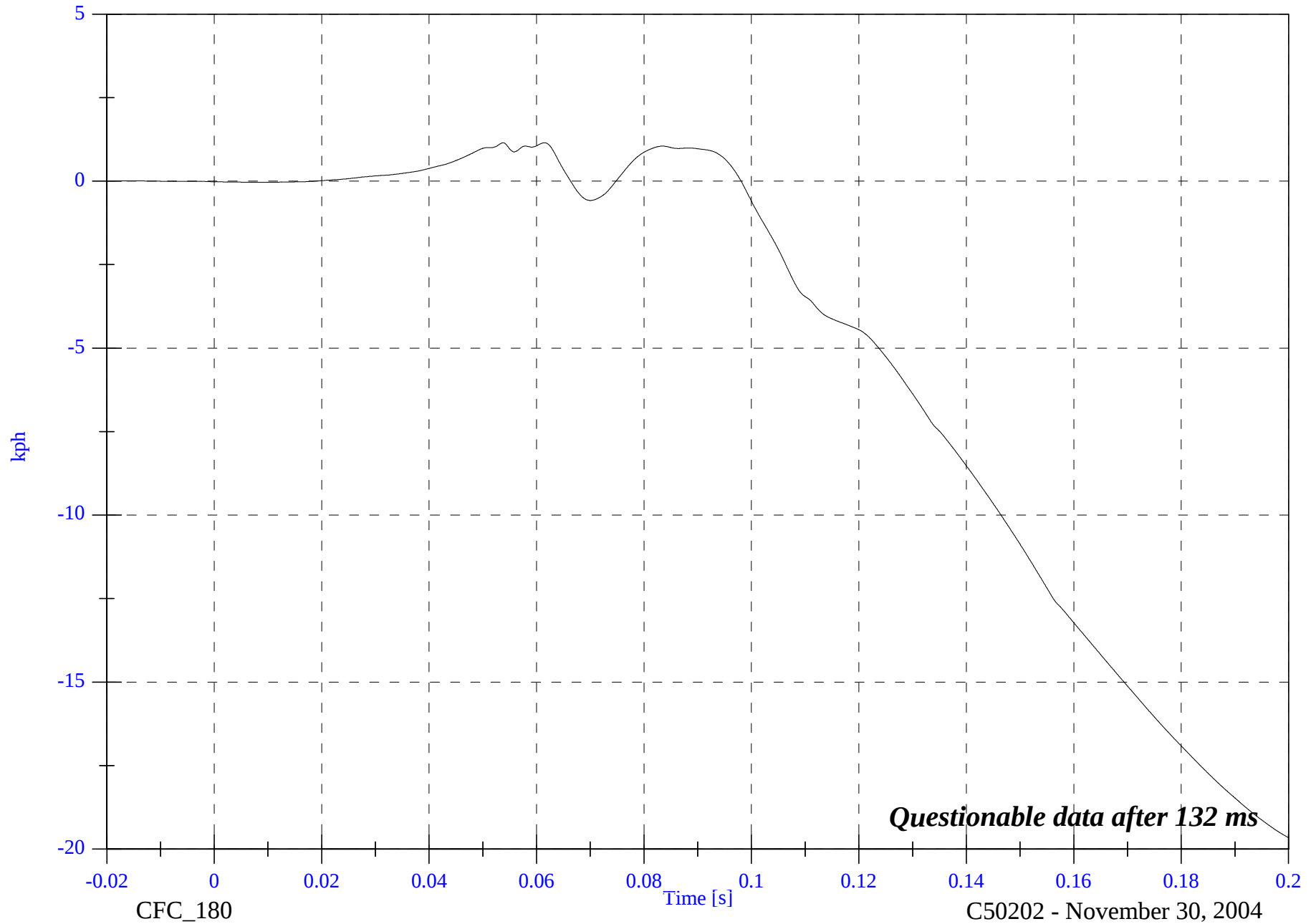


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P4 Head x Velocity

Max: 1.2 [kph] at 0.061 [s]

Min: -19.7 [kph] at 0.200 [s]



B-30

8675-F214-21

CFC_180

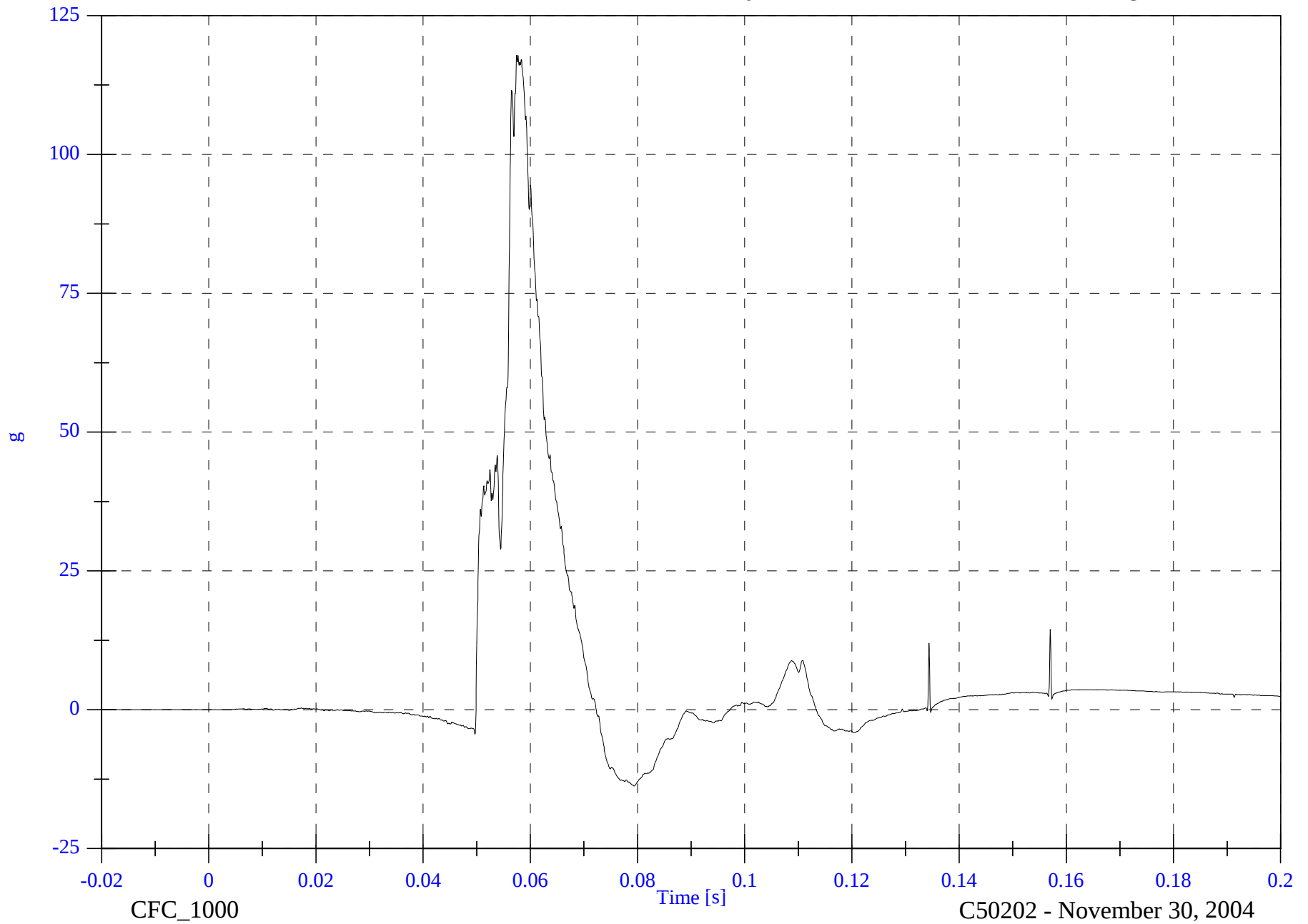
C50202 - November 30, 2004

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P4 Head y

Max: 117.8 [g] at 0.057 [s]

Min: -13.7 [g] at 0.079 [s]



B-31

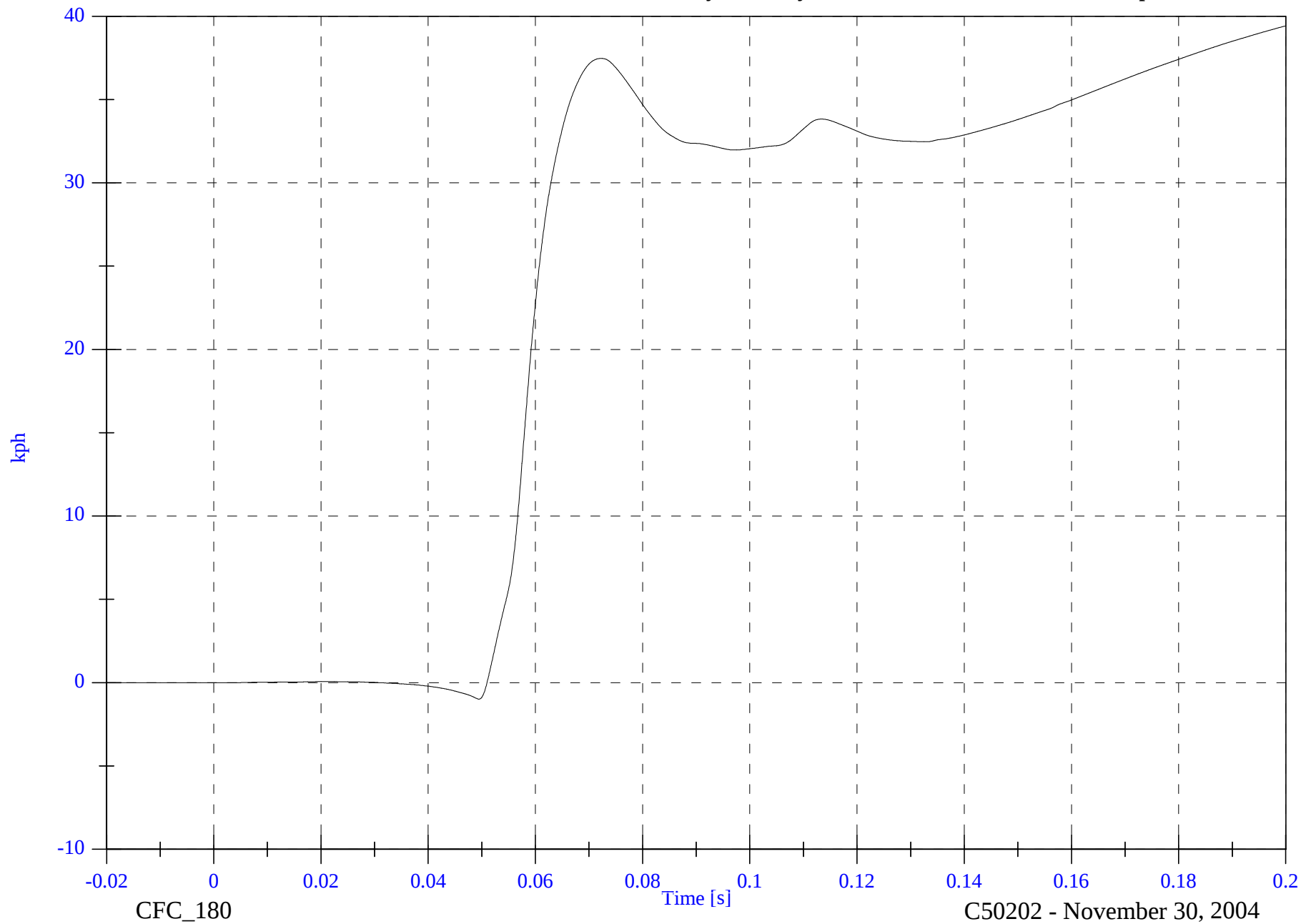
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P4 Head y Velocity

Max: 39.4 [kph] at 0.200 [s]

Min: -1.0 [kph] at 0.049 [s]



B-32

8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

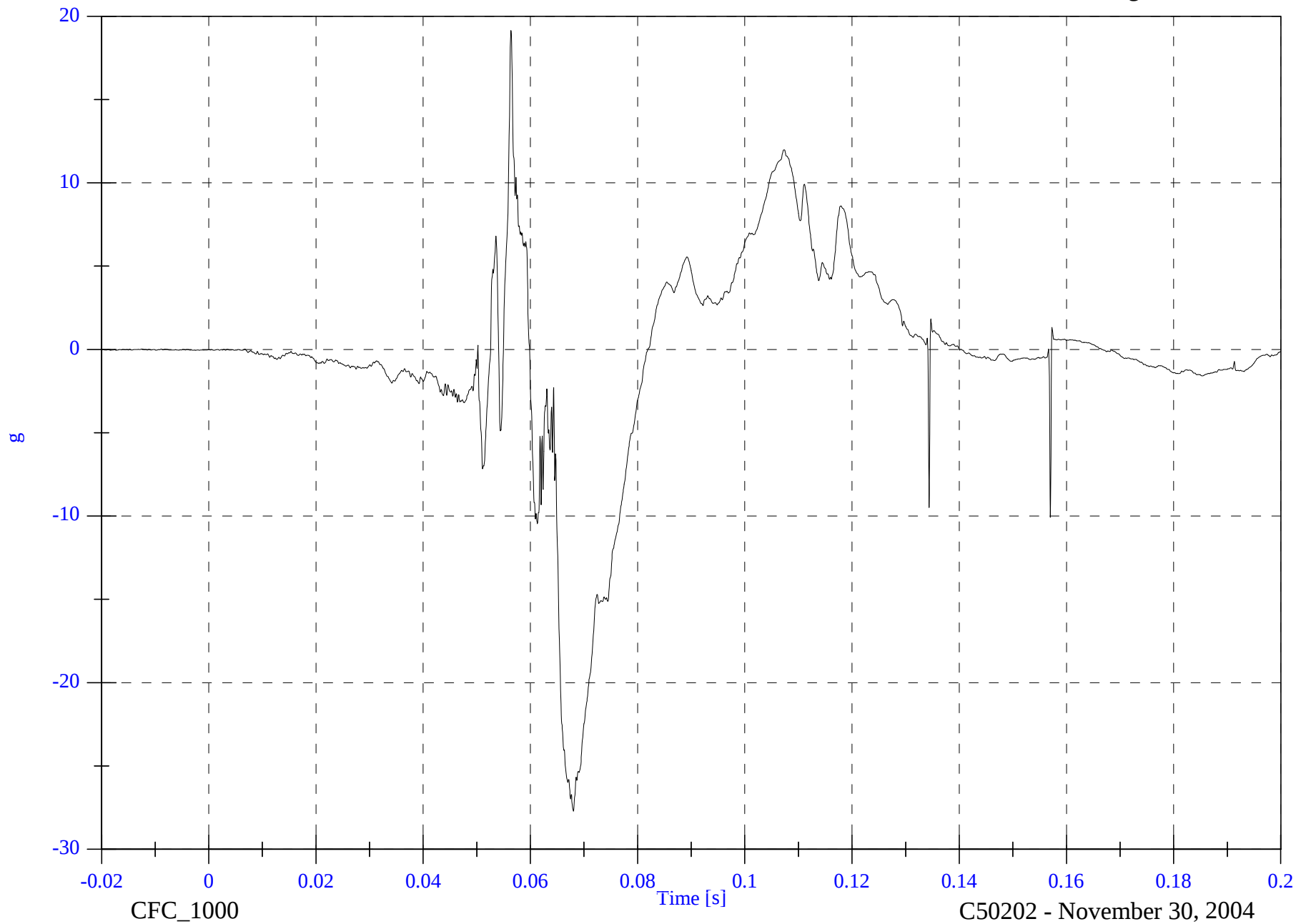
V2P4 Head z

Max: 19.1 [g] at 0.056 [s]

Min: -27.7 [g] at 0.068 [s]

B-33

8675-F214-21

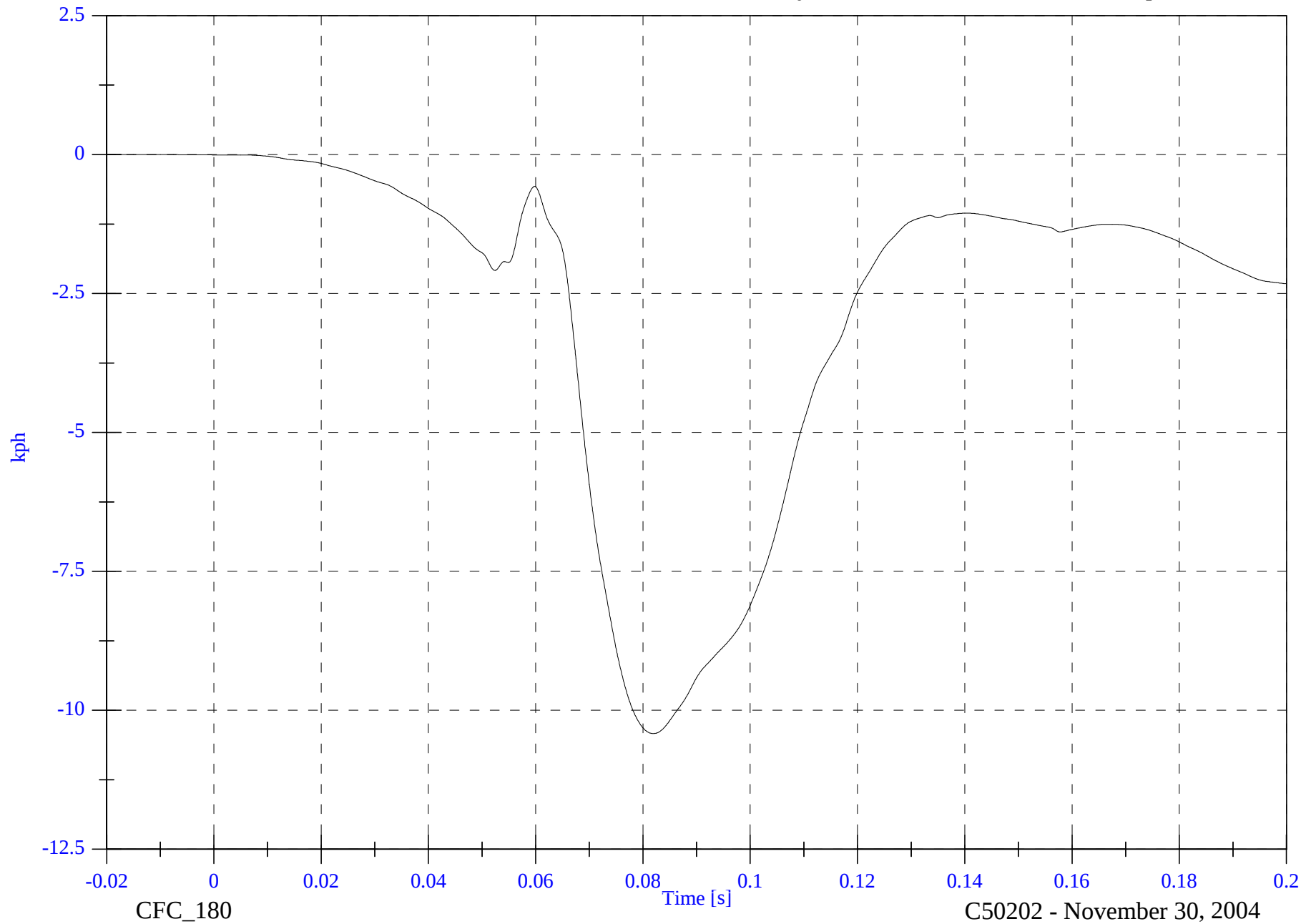


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P4 Head z Velocity

Max: 0.0 [kph] at -0.020 [s]

Min: -10.4 [kph] at 0.082 [s]



B-34

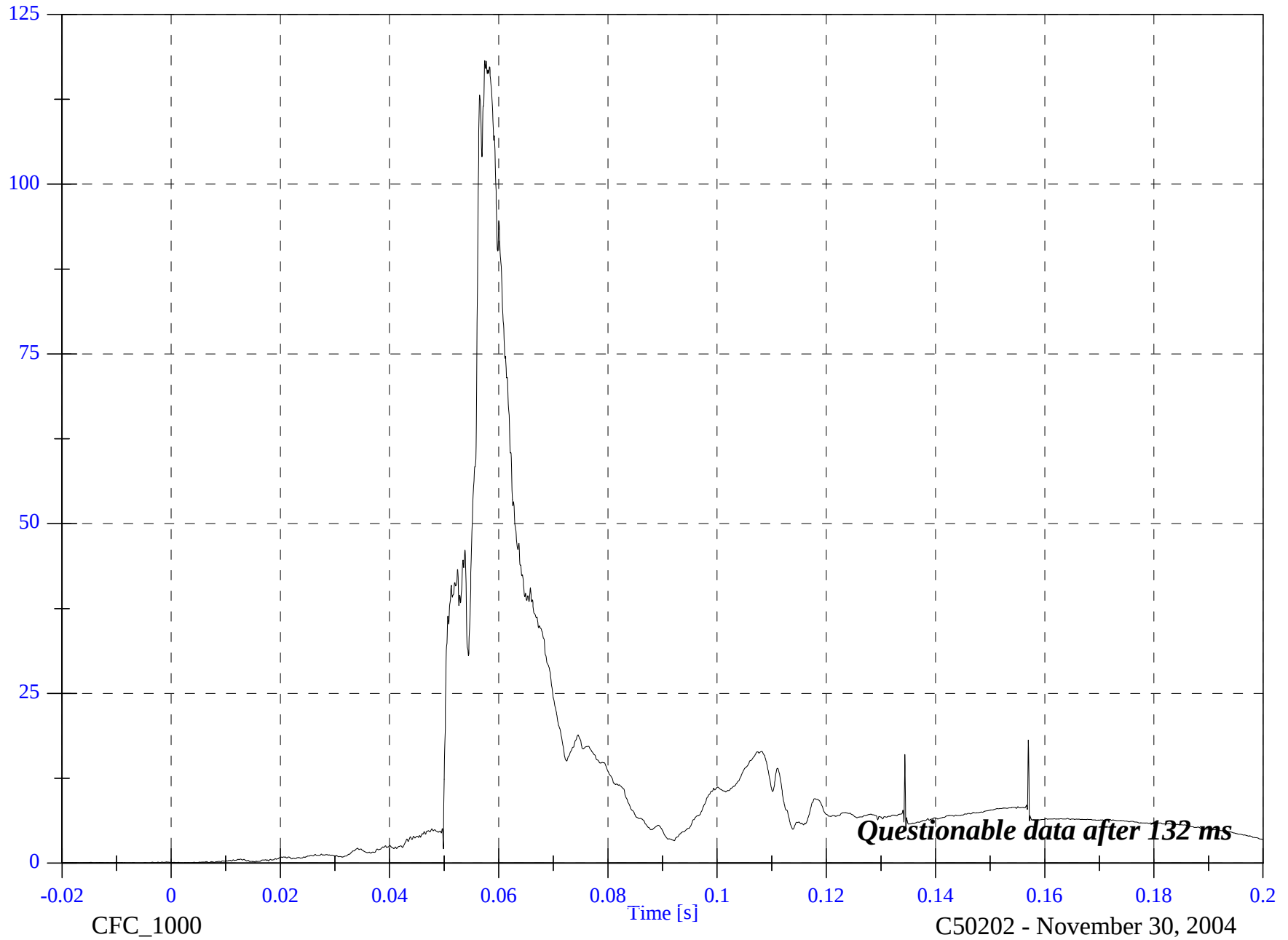
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P4 Head Resultant

Max: 118.2 [g] at 0.057 [s]

Min: 0.0 [g] at -0.012 [s]



B-35

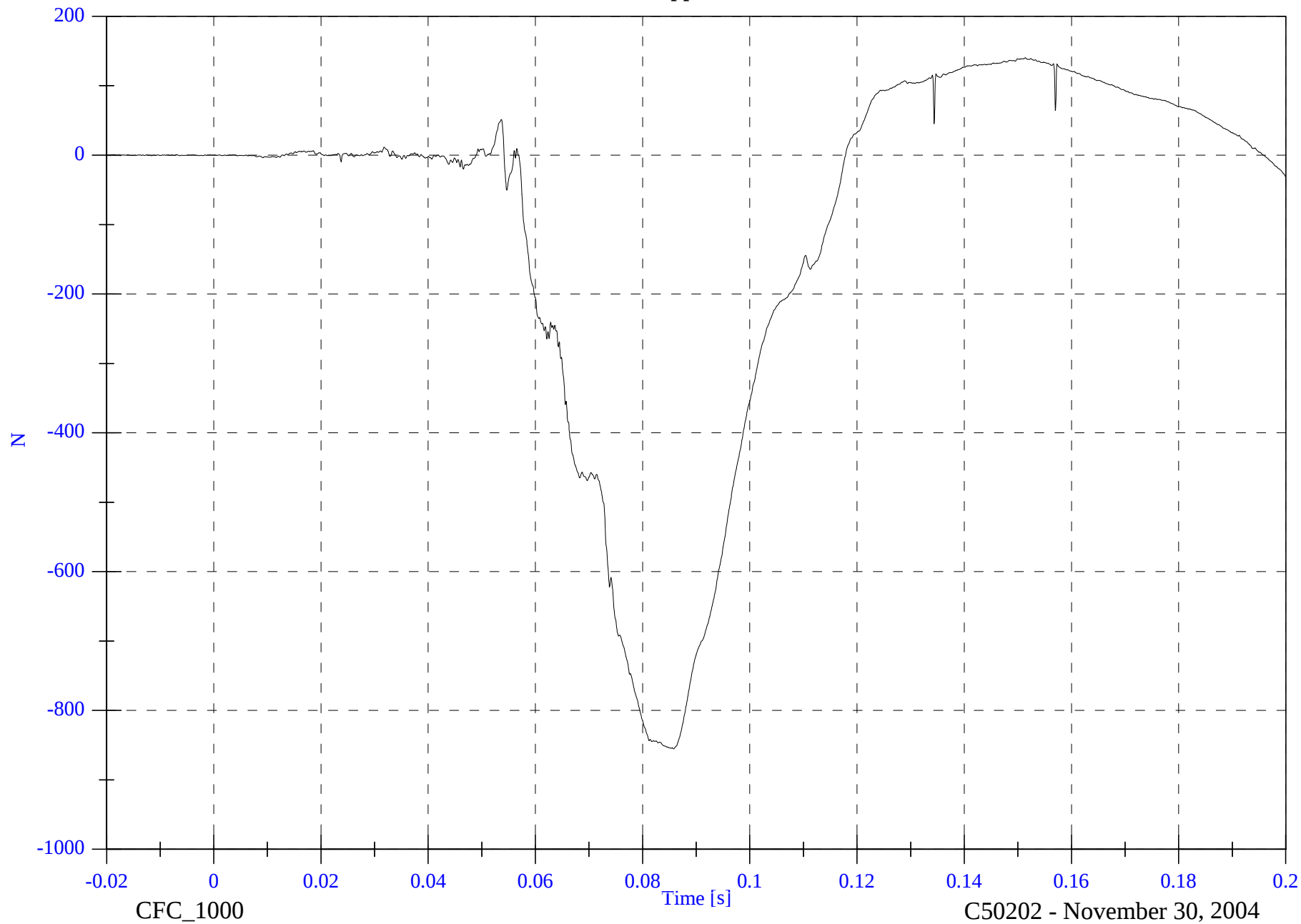
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P4 Upper Neck Fx

Max: 140.2 [N] at 0.151 [s]

Min: -855.4 [N] at 0.086 [s]



B-36

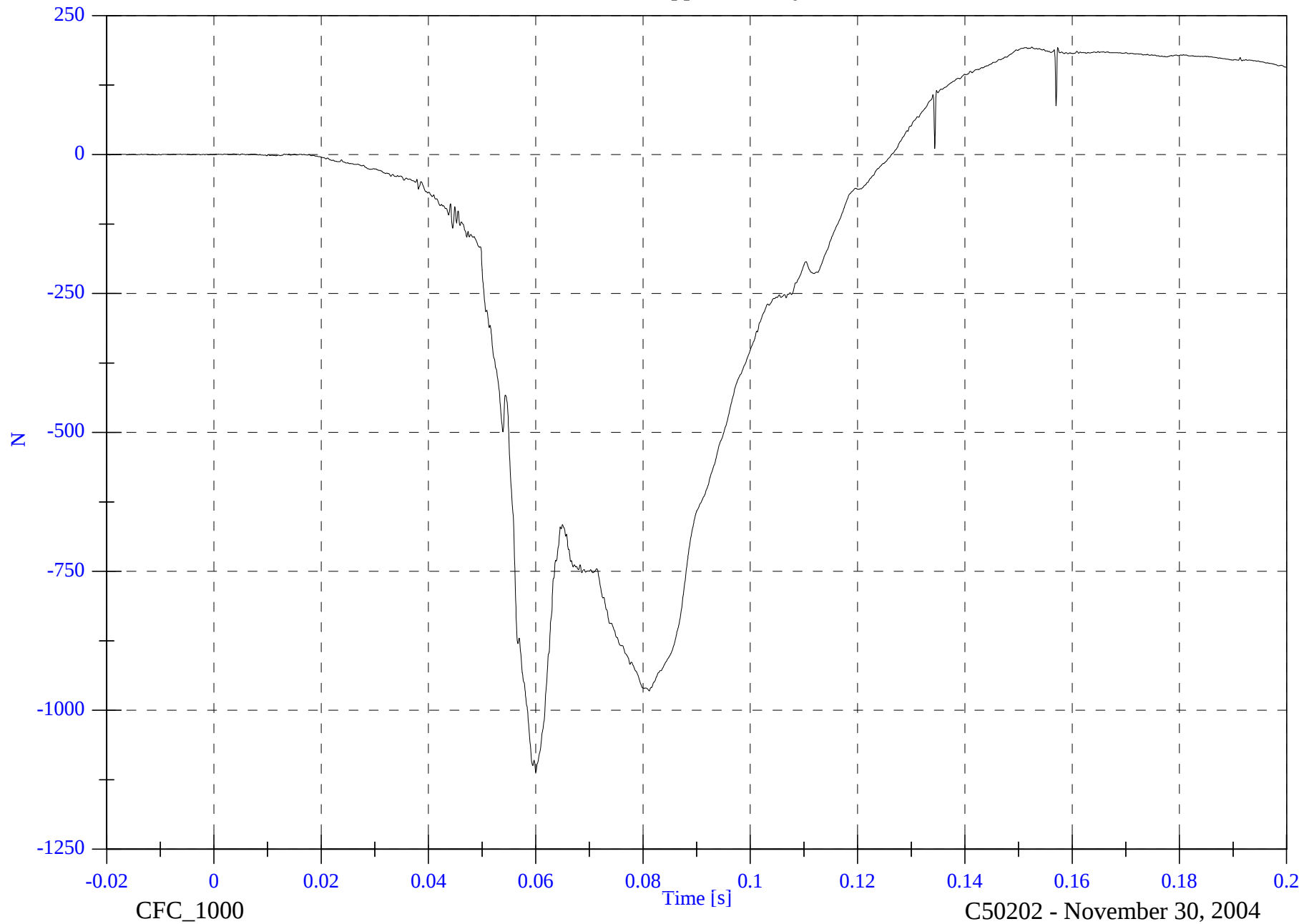
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P4 Upper Neck Fy

Max: 193.3 [N] at 0.152 [s]

Min: -1111.6 [N] at 0.060 [s]



B-37

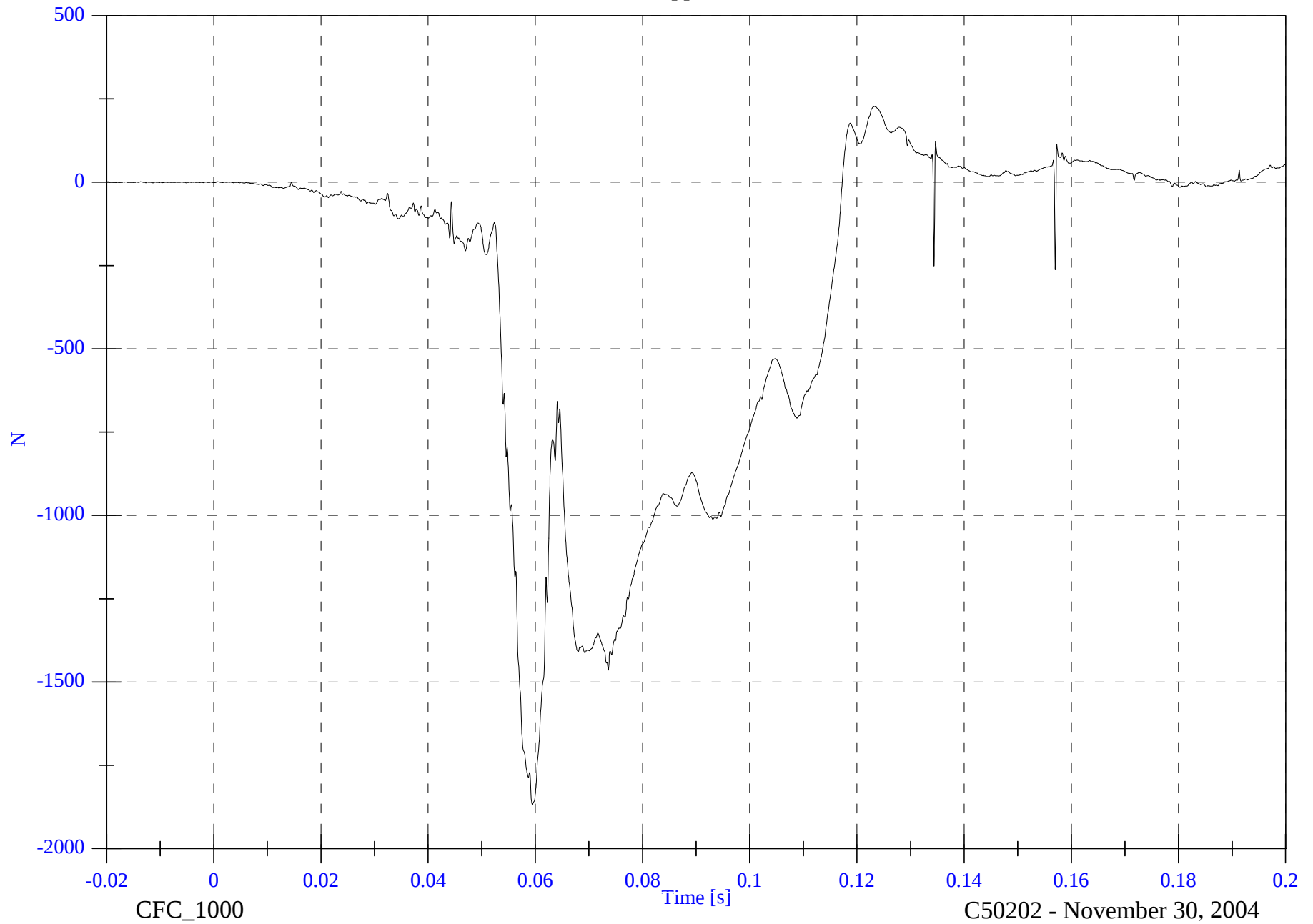
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P4 Upper Neck Fz

Max: 227.6 [N] at 0.123 [s]

Min: -1867.8 [N] at 0.059 [s]



B-38

8675-F214-21

CFC_1000

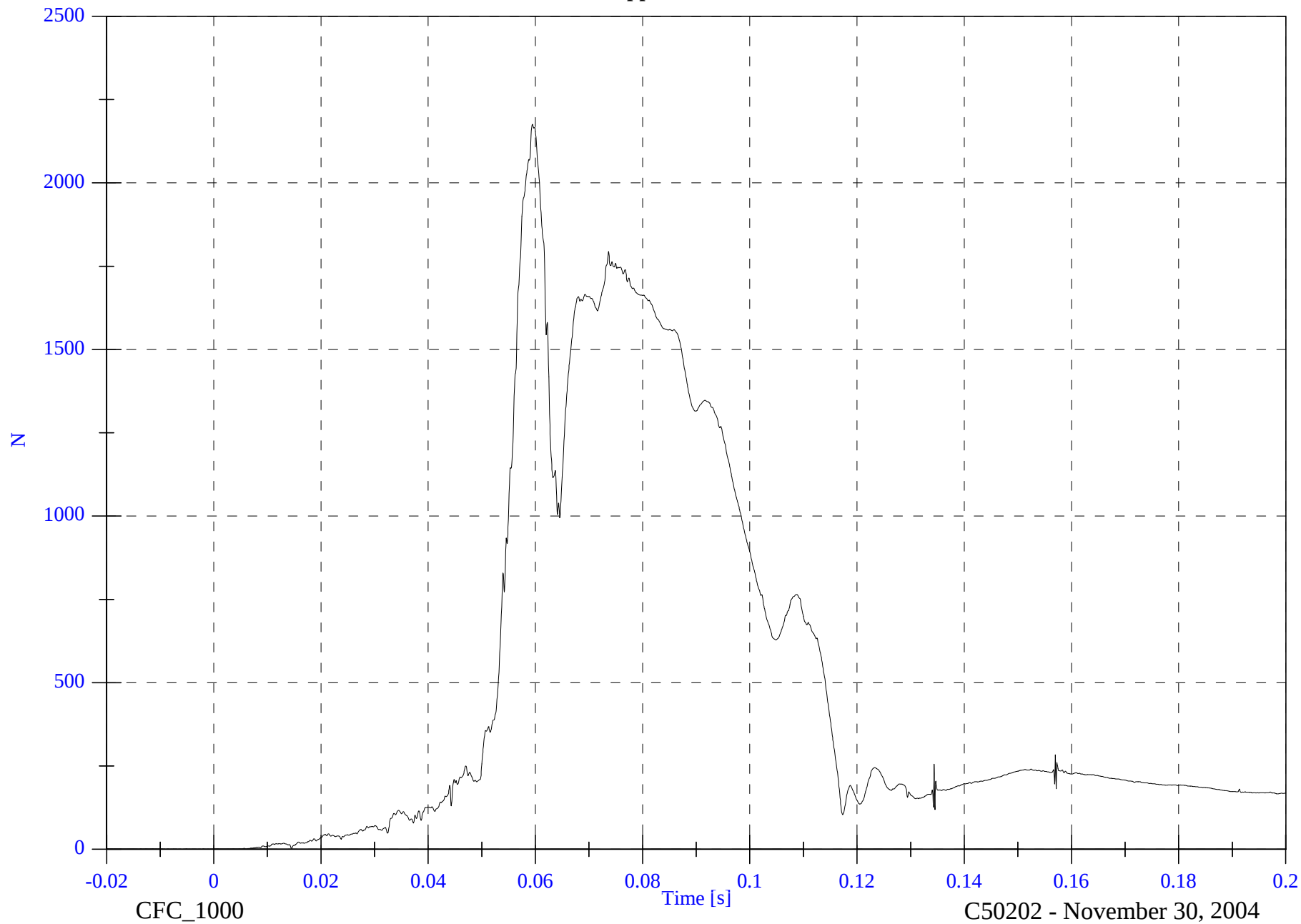
C50202 - November 30, 2004

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P4 Upper Neck F Resultant

Max: 2175.5 [N] at 0.059 [s]

Min: 0.1 [N] at -0.015 [s]



B-39

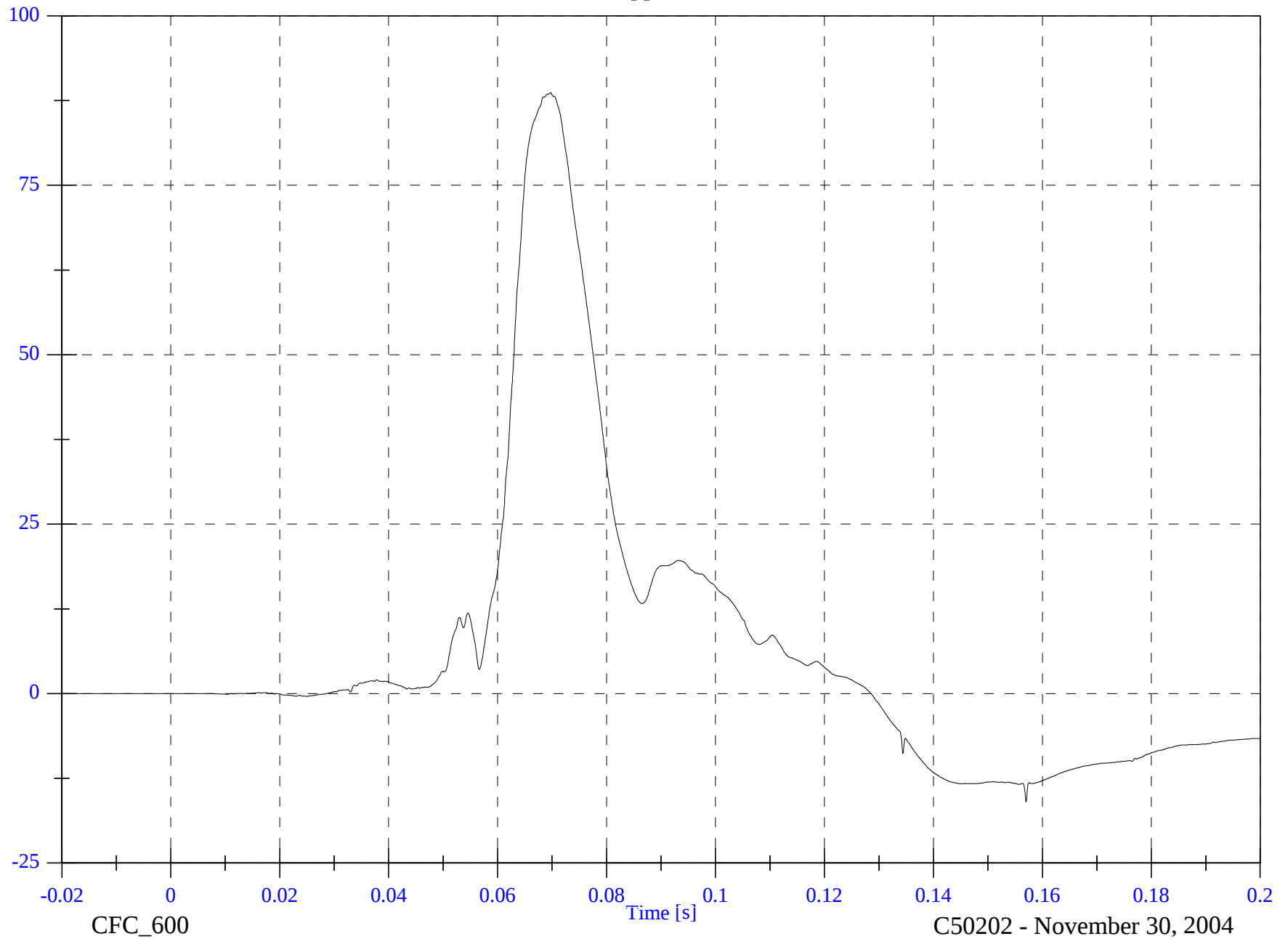
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P4 Upper Neck Mx

Max: 88.6 [N-m] at 0.070 [s]

Min: -16.0 [N-m] at 0.157 [s]



B-40

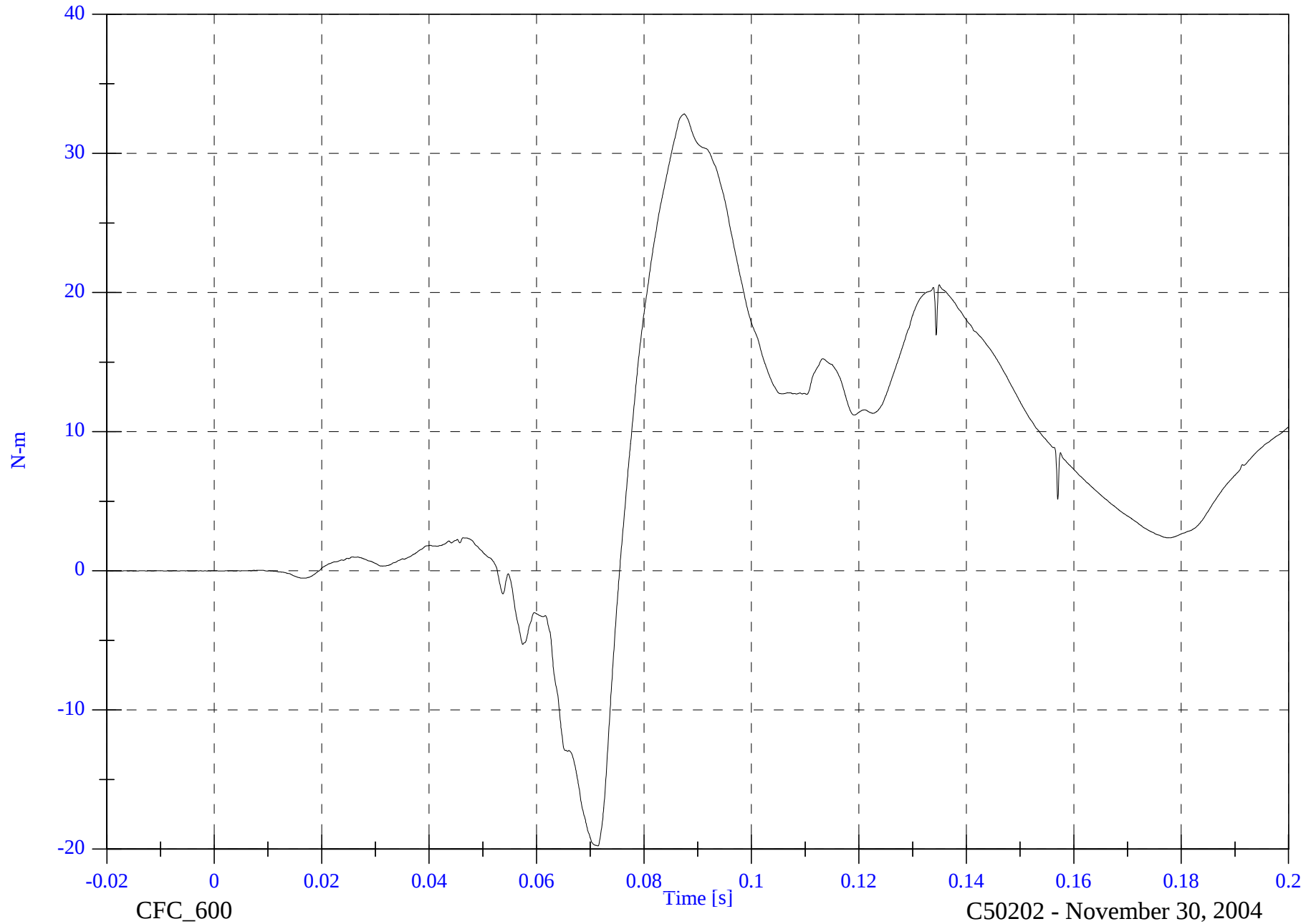
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P4 Upper Neck My

Max: 32.8 [N-m] at 0.087 [s]

Min: -19.8 [N-m] at 0.071 [s]



B-41

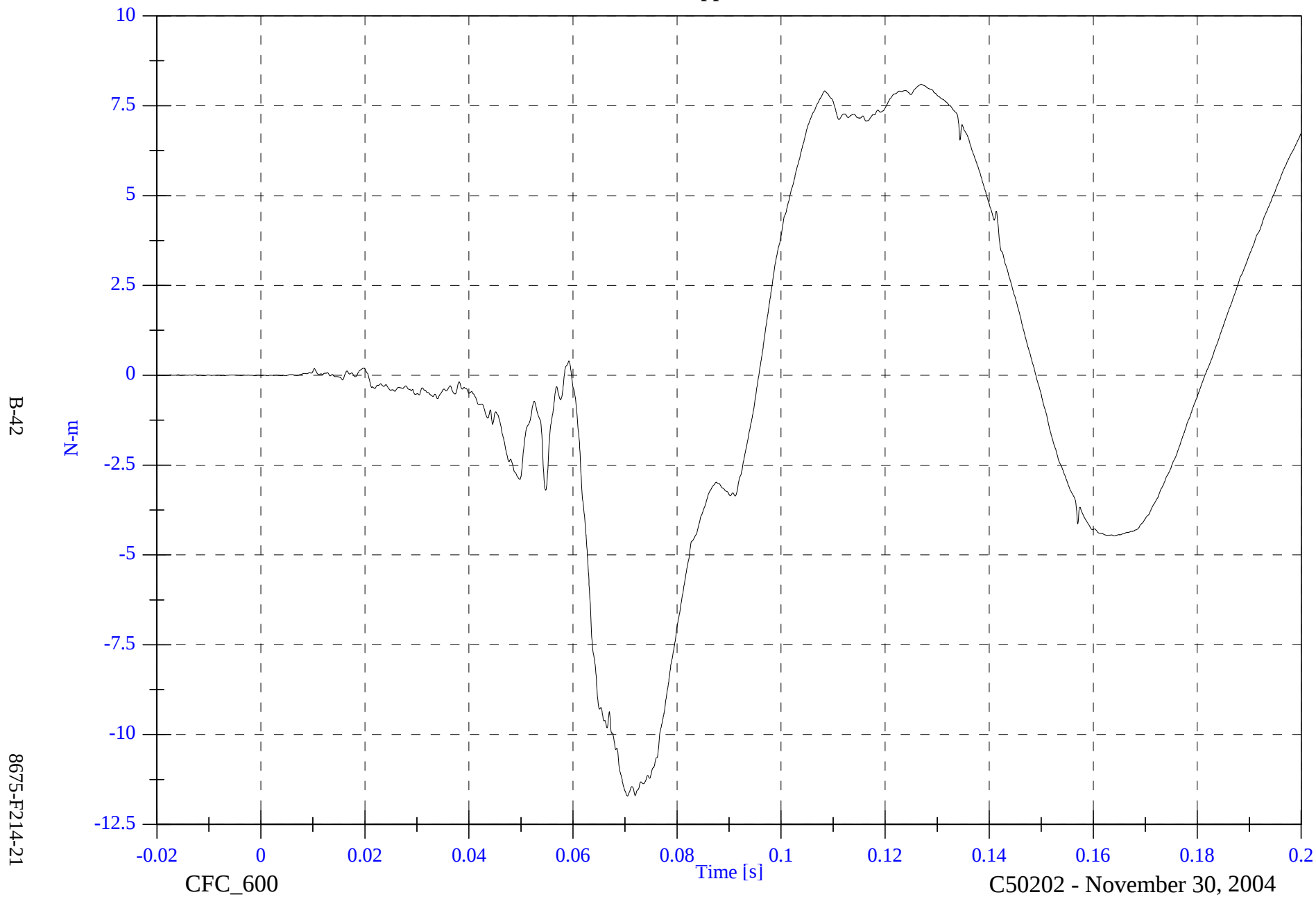
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P4 Upper Neck Mz

Max: 8.1 [N-m] at 0.127 [s]

Min: -11.7 [N-m] at 0.070 [s]

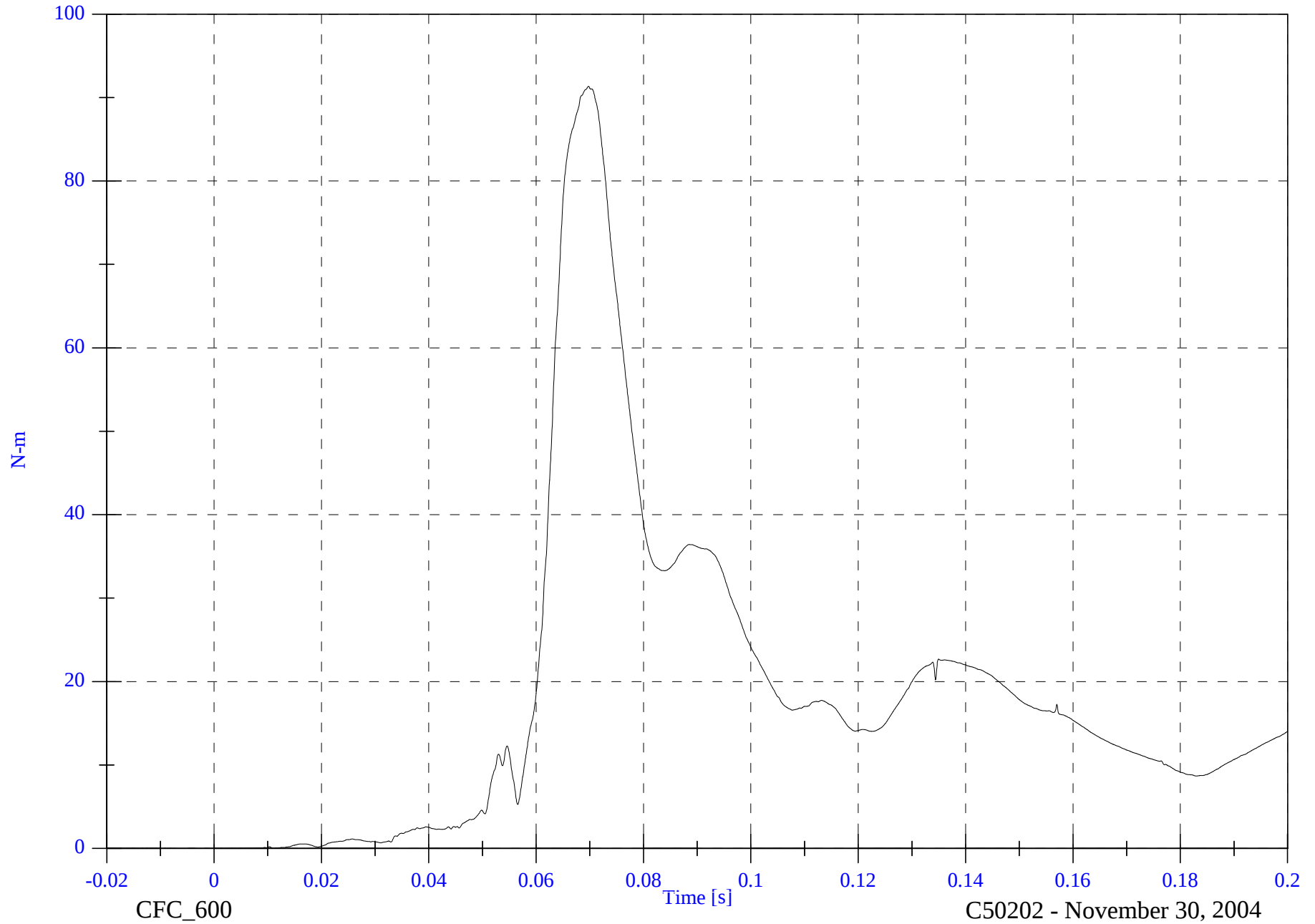


2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P4 Upper Neck M Resultant

Max: 91.4 [N-m] at 0.070 [s]

Min: 0.0 [N-m] at -0.006 [s]



B-43

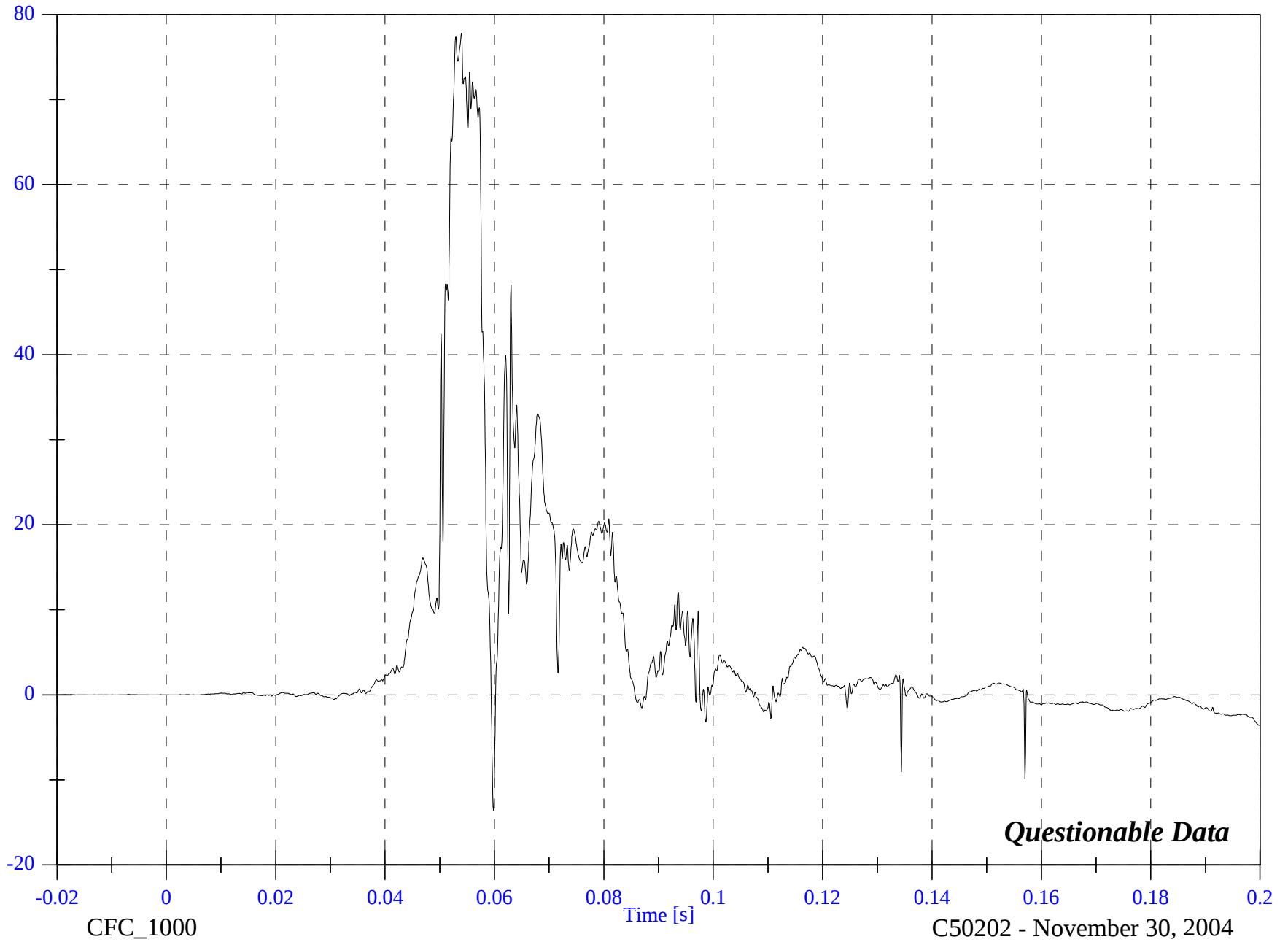
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P4 Upper Rib y

Max: 77.8 [g] at 0.054 [s]

Min: -13.6 [g] at 0.060 [s]



B-44

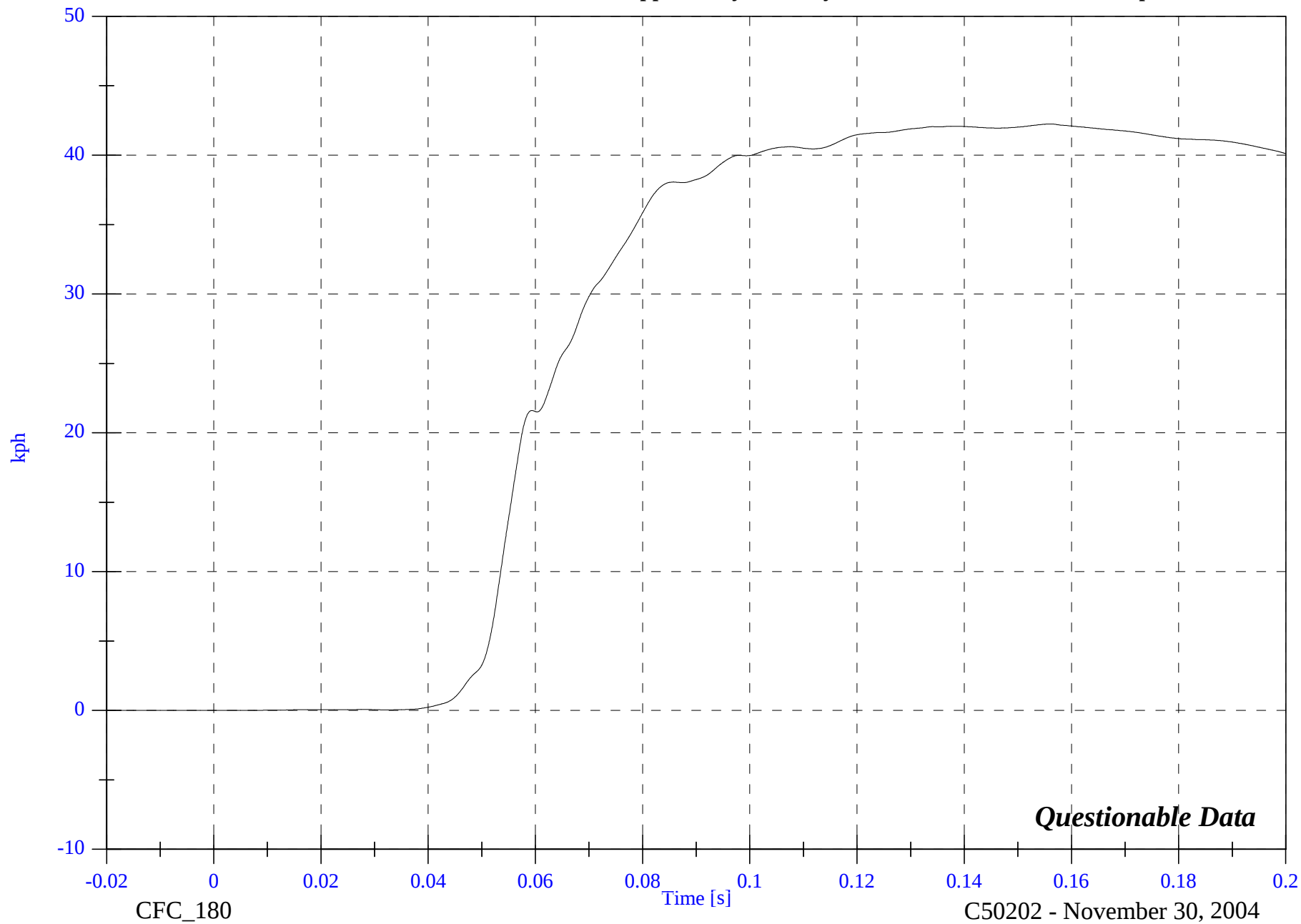
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P4 Upper Rib y Velocity

Max: 42.2 [kph] at 0.156 [s]

Min: -0.0 [kph] at -0.020 [s]



B-45

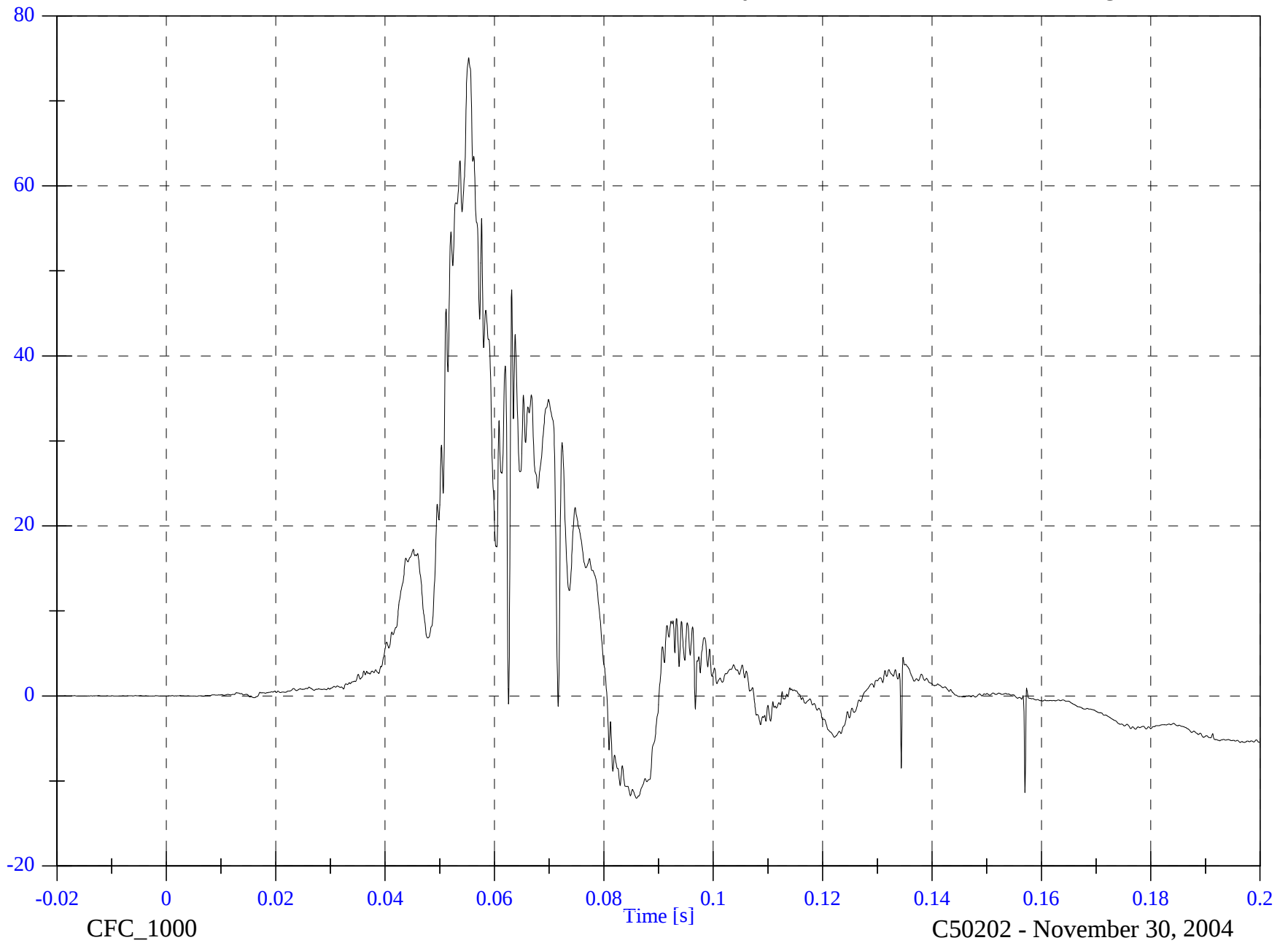
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P4 Lower Rib y

Max: 75.1 [g] at 0.055 [s]

Min: -12.0 [g] at 0.086 [s]



B-46

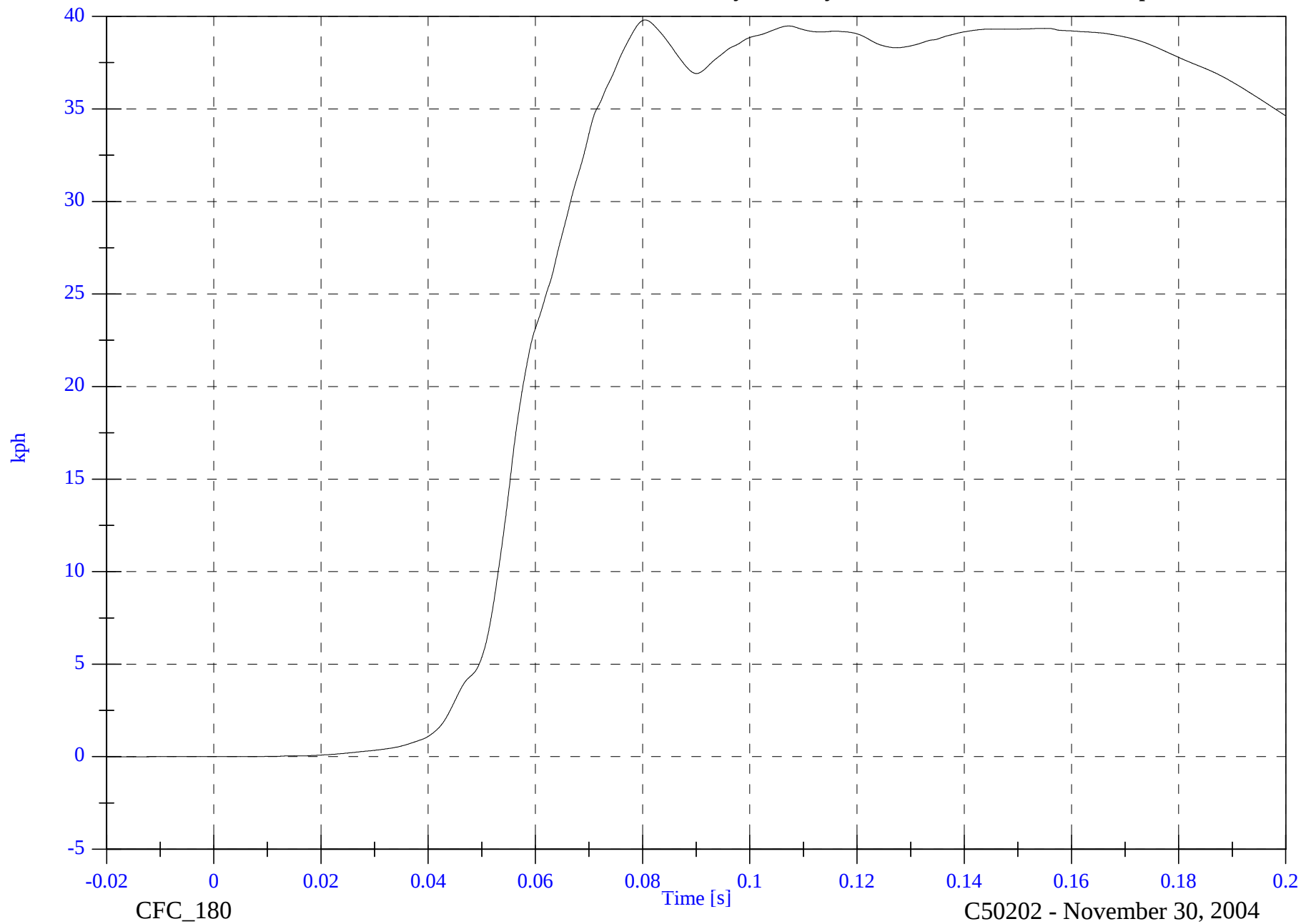
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P4 Lower Rib y Velocity

Max: 39.8 [kph] at 0.080 [s]

Min: -0.0 [kph] at -0.020 [s]



B-47

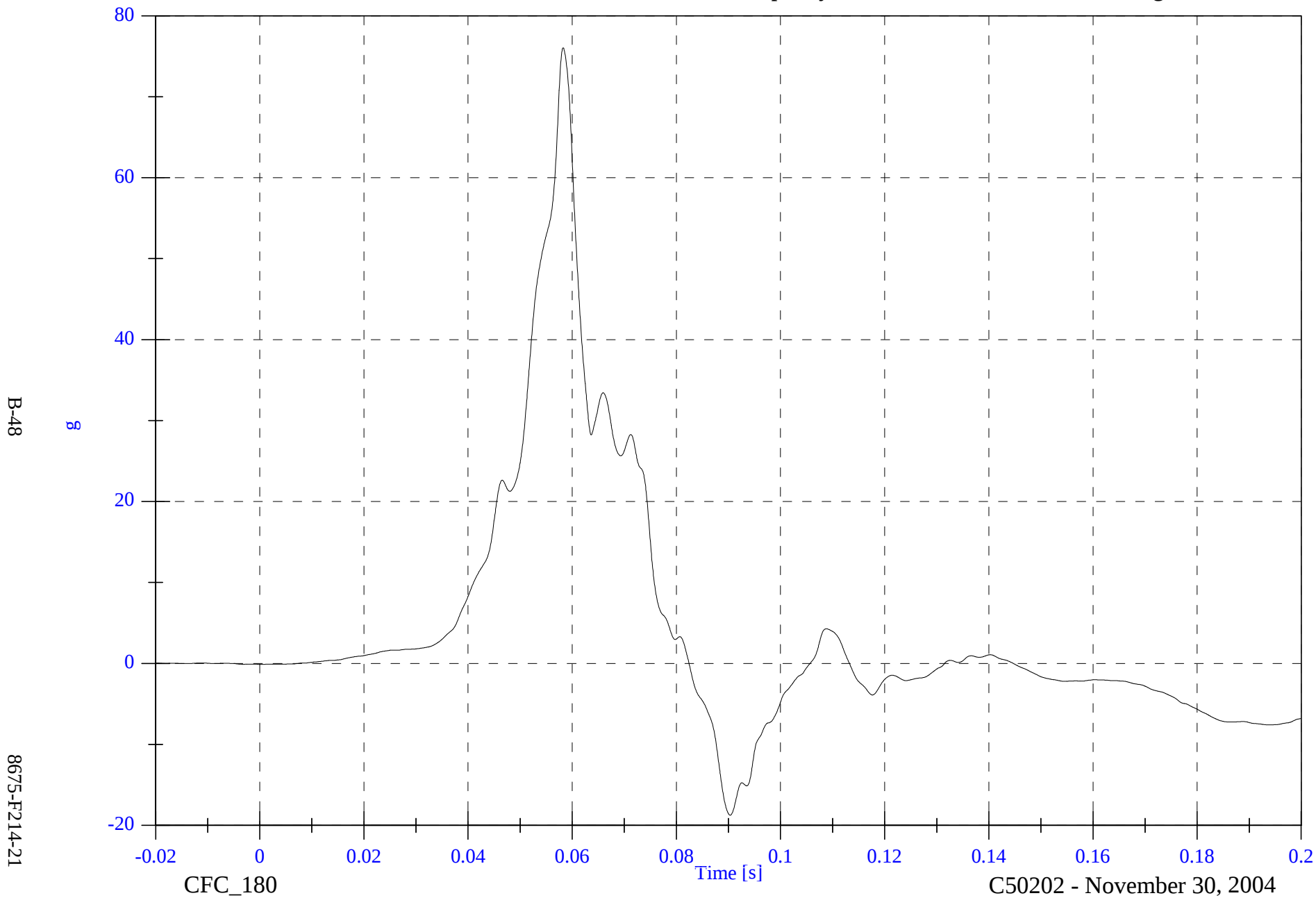
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P4 Lower Spine y

Max: 76.1 [g] at 0.058 [s]

Min: -18.7 [g] at 0.090 [s]

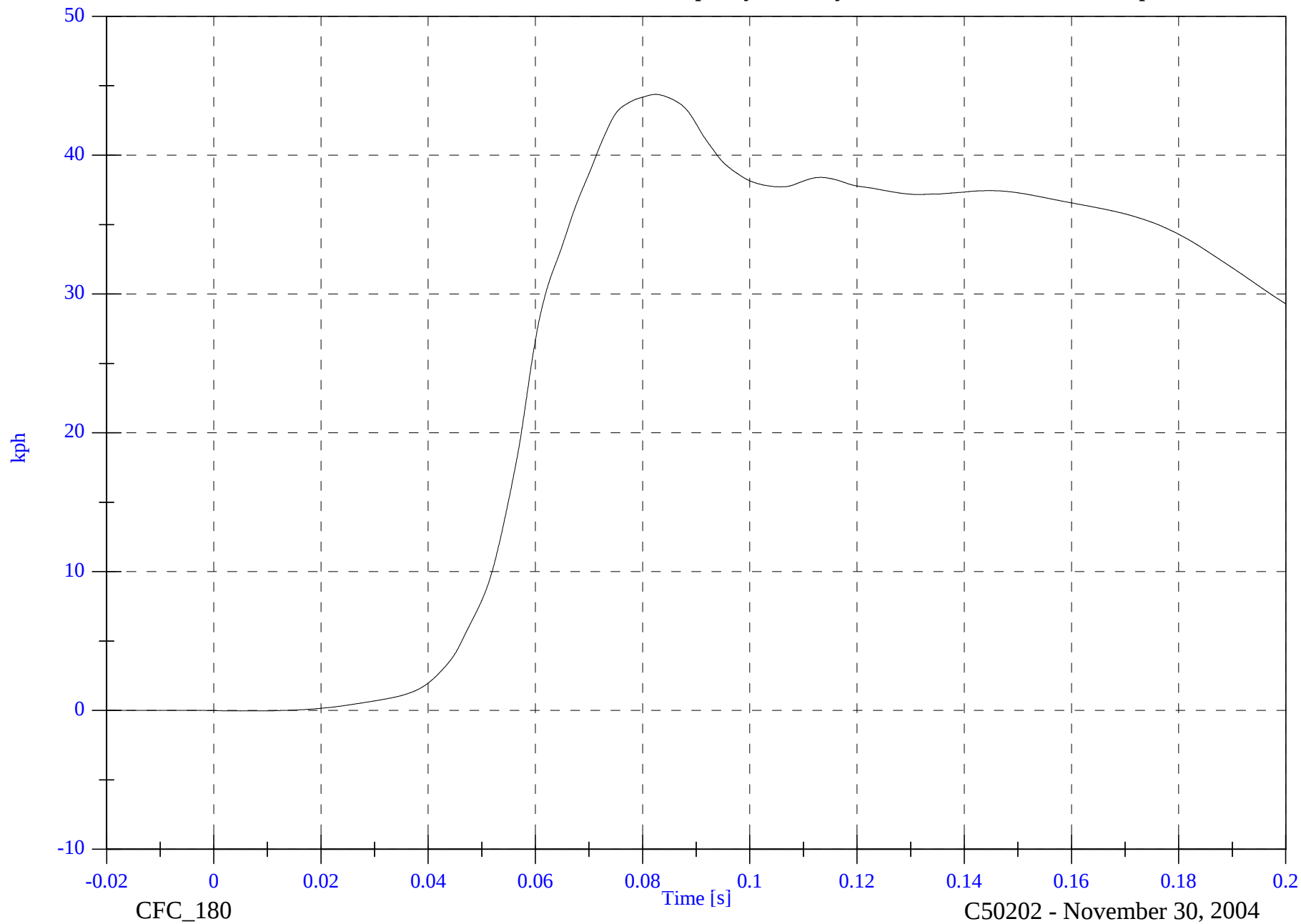


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P4 Lower Spine y Velocity

Max: 44.4 [kph] at 0.082 [s]

Min: -0.0 [kph] at 0.007 [s]



B-49

8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

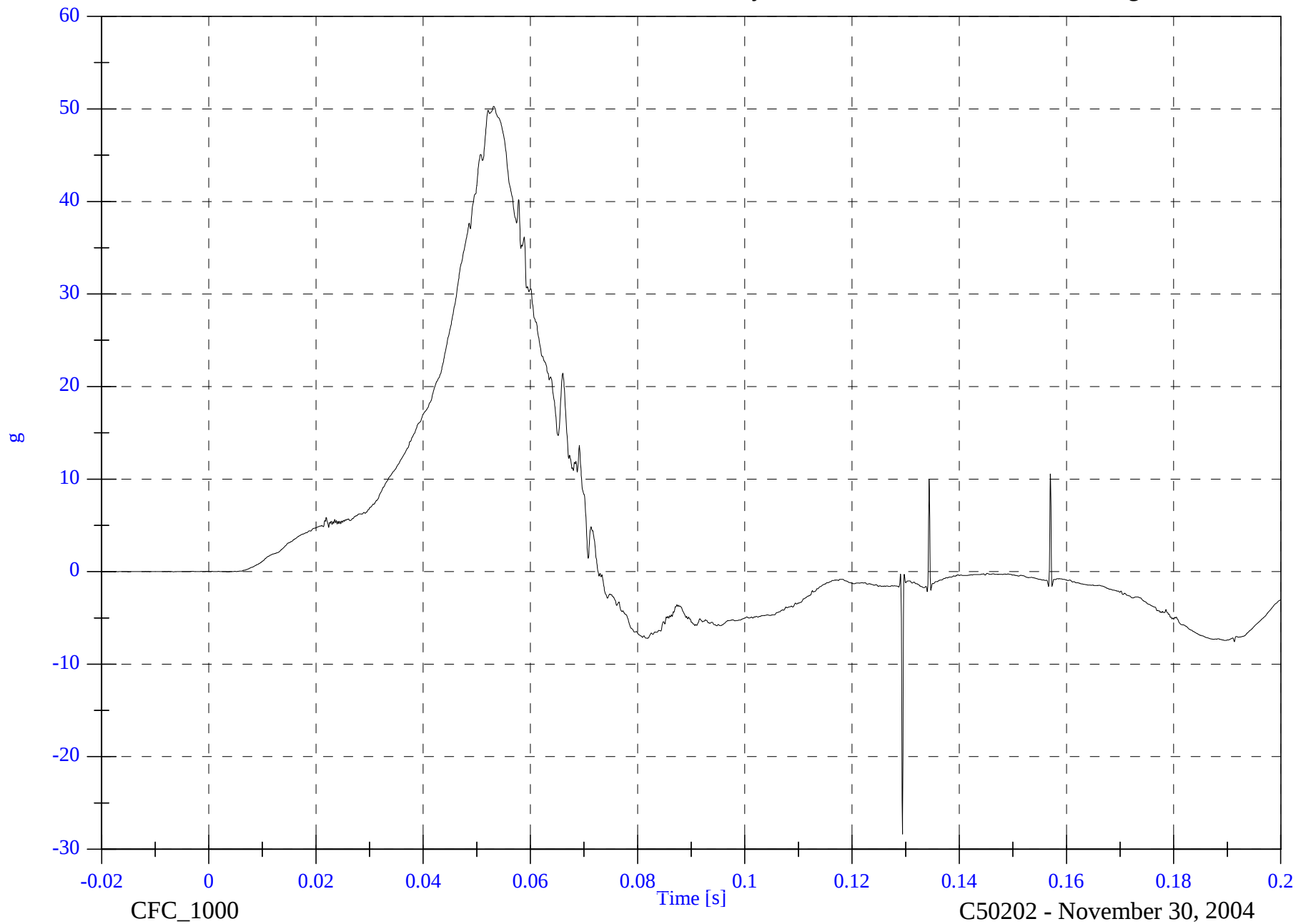
V2P4 Pelvic y

Max: 50.3 [g] at 0.053 [s]

Min: -28.4 [g] at 0.129 [s]

B-50

8675-F214-21

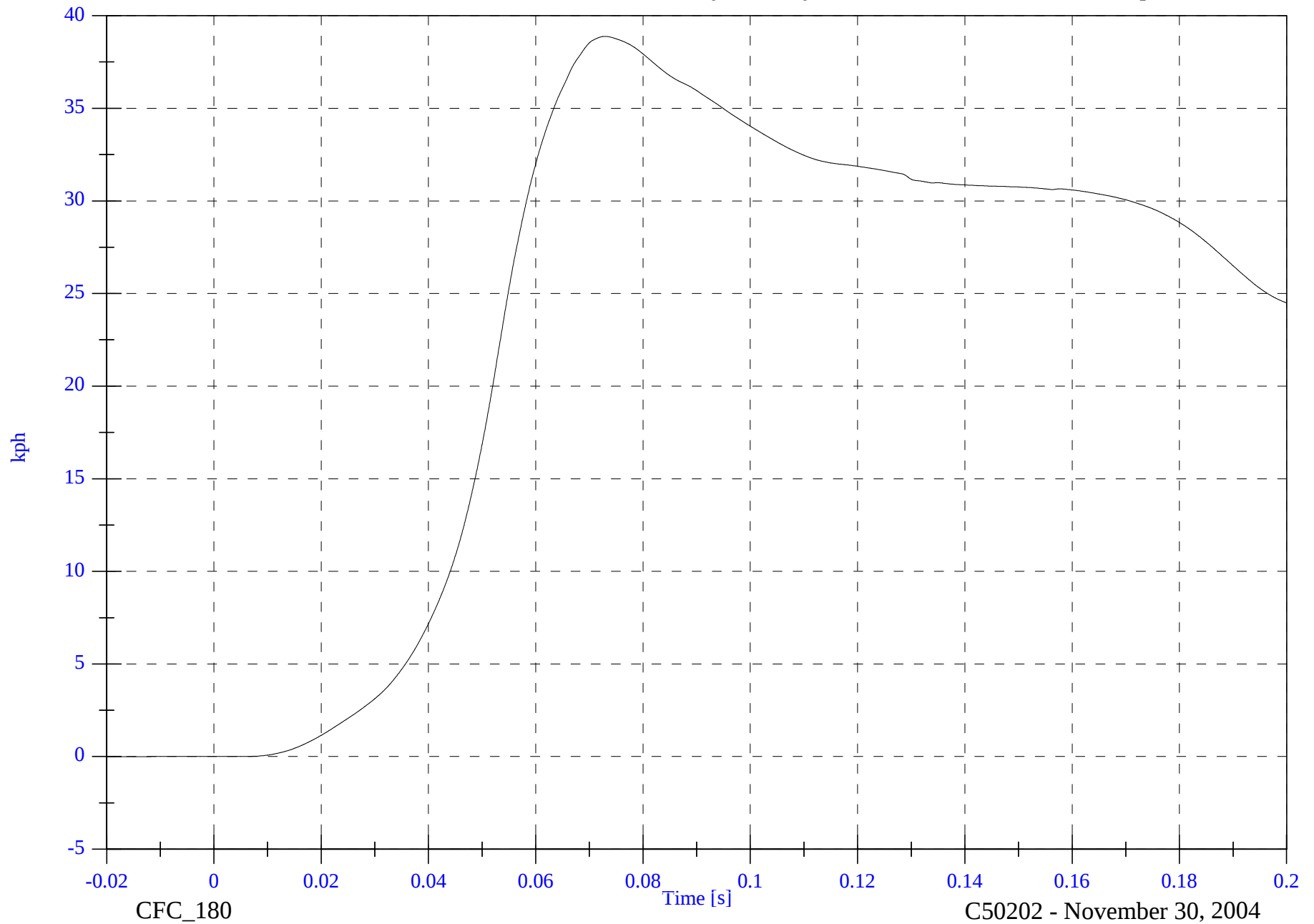


2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P4 Pelvic y Velocity

Max: 38.9 [kph] at 0.073 [s]

Min: -0.0 [kph] at -0.020 [s]



B-51

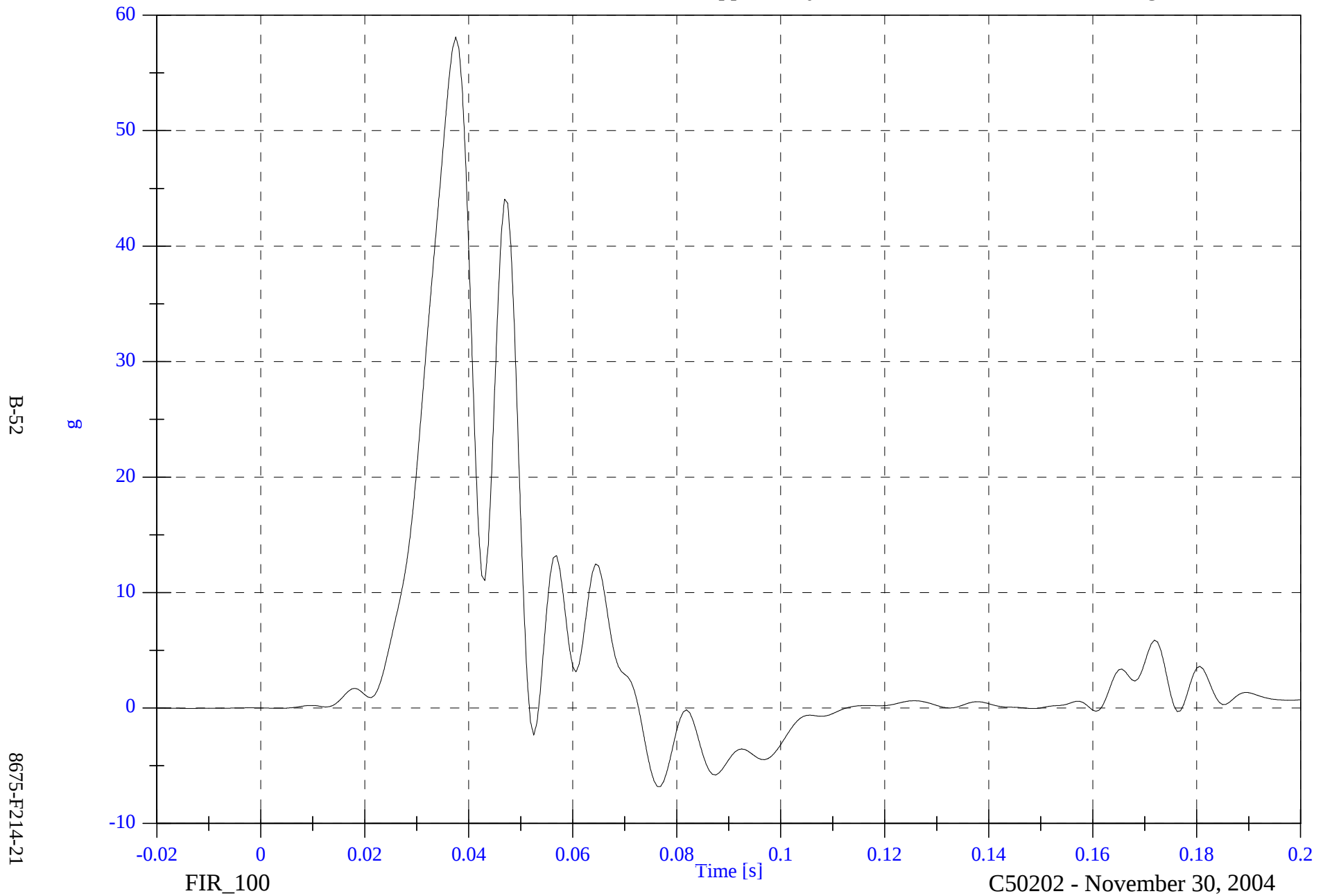
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Upper Rib y

Max: 58.1 [g] at 0.037 [s]

Min: -6.8 [g] at 0.077 [s]



2005 214 Indicant Test 2 - 2005 Ford Mustang

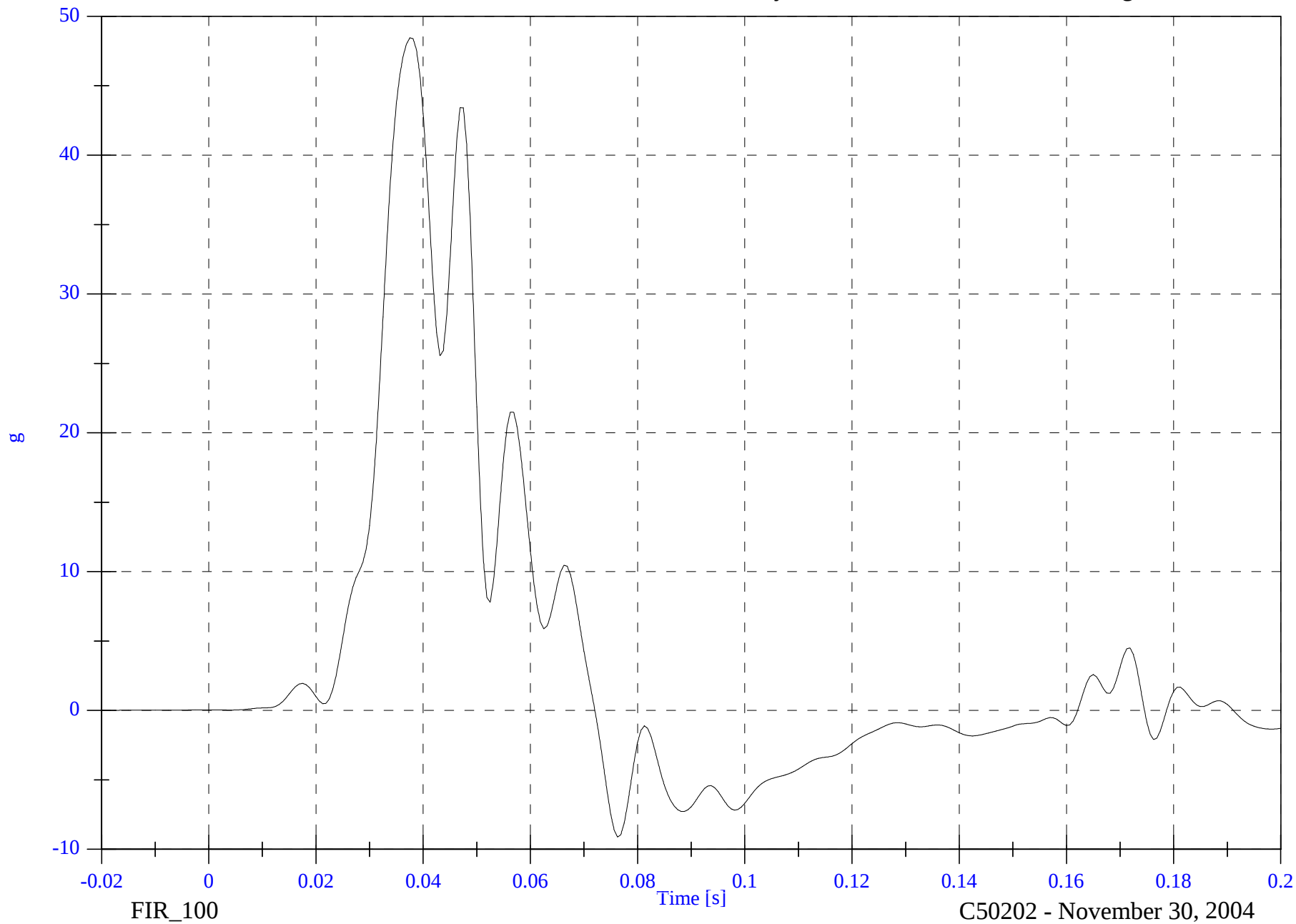
V2P1 Lower Rib y

Max: 48.5 [g] at 0.037 [s]

Min: -9.1 [g] at 0.076 [s]

B-53

8675-F214-21

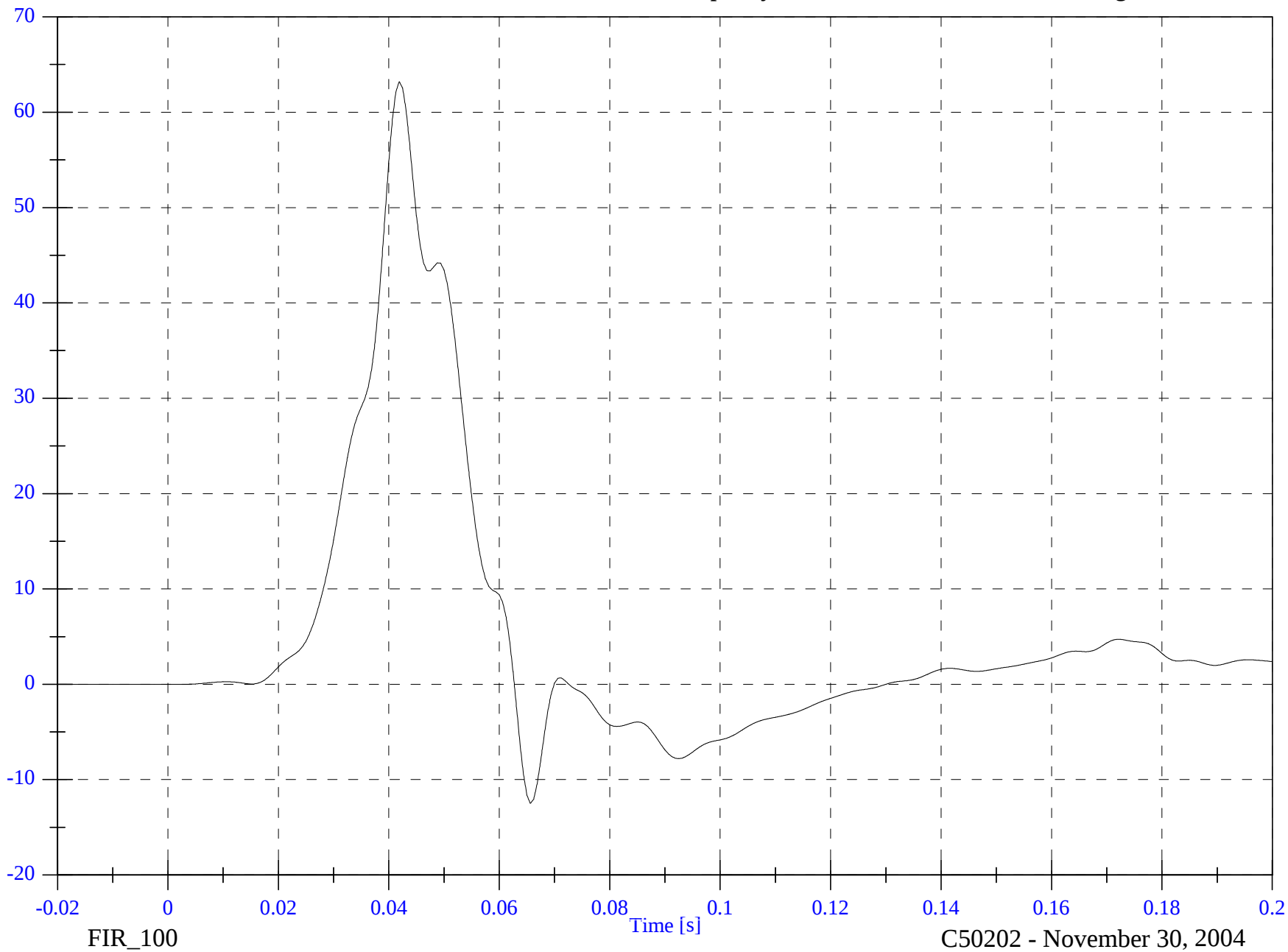


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Lower Spine y

Max: 63.2 [g] at 0.042 [s]

Min: -12.5 [g] at 0.066 [s]

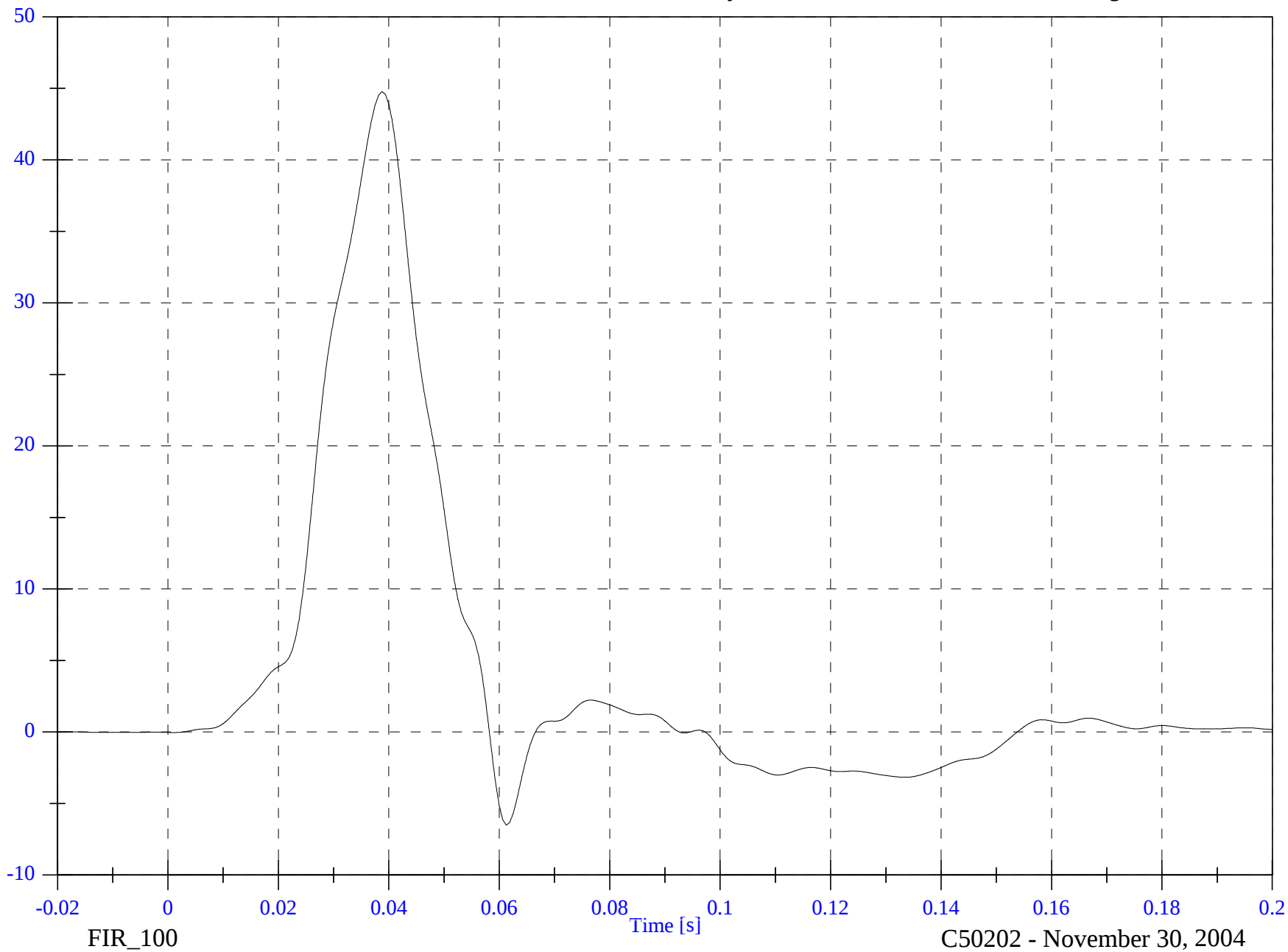


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Pelvic y

Max: 44.8 [g] at 0.039 [s]

Min: -6.5 [g] at 0.061 [s]



B-55

8675-F214-21

Data Plot is Not Available

2005 214 Inducant Test 2 - 2005 Ford Mustang

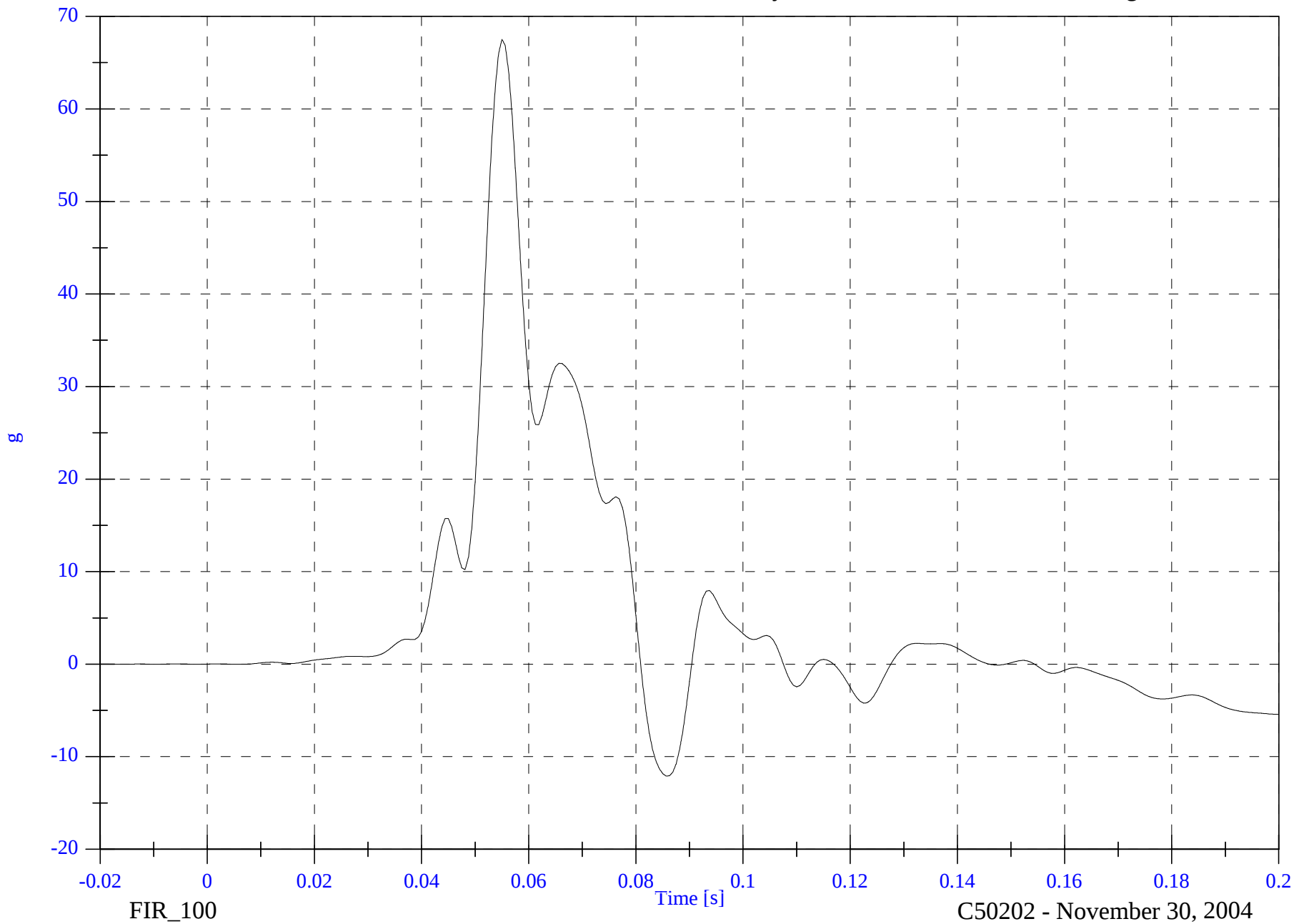
V2P4 Lower Rib y

Max: 67.5 [g] at 0.055 [s]

Min: -12.1 [g] at 0.086 [s]

B-57

8675-F214-21

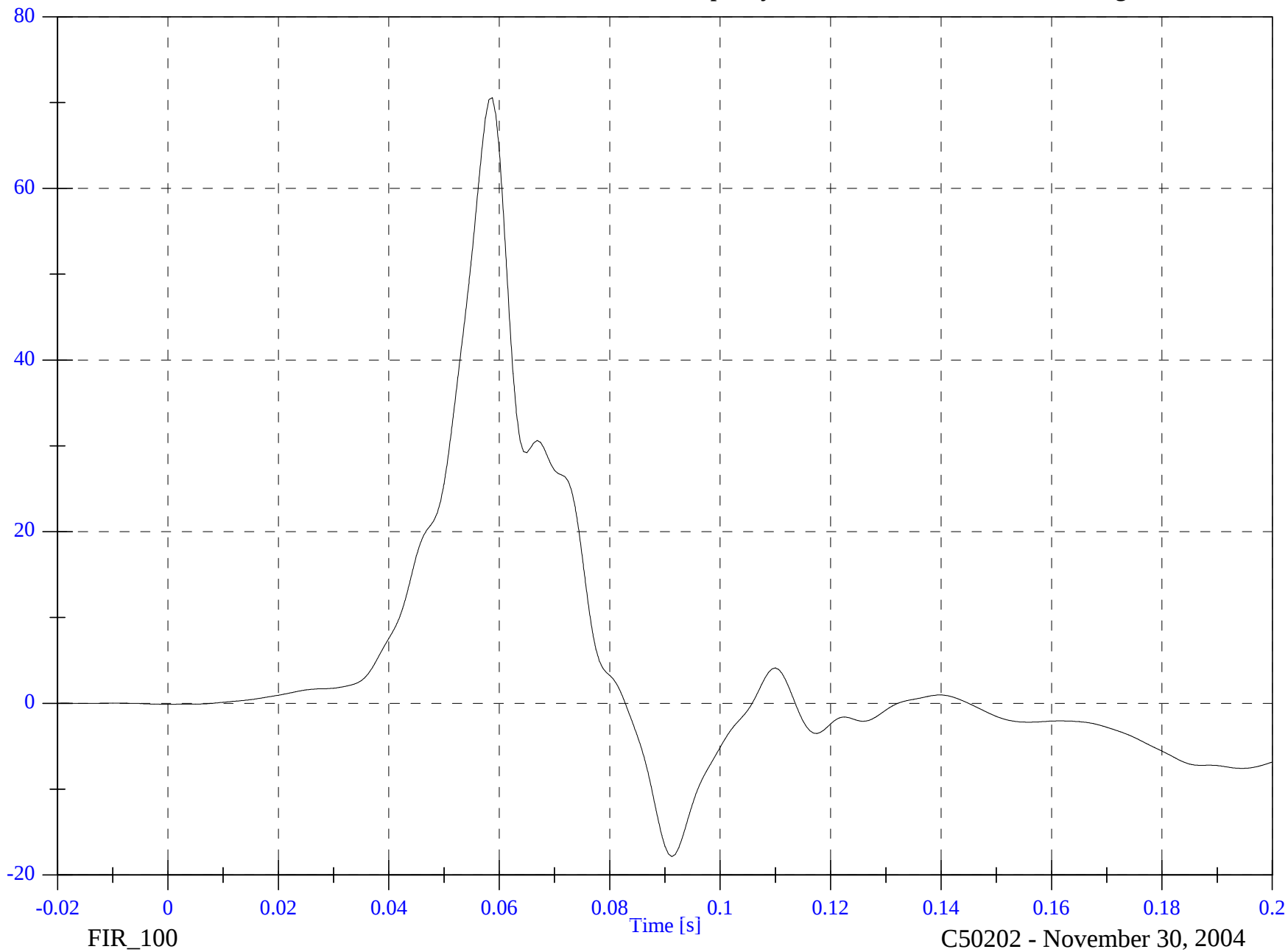


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P4 Lower Spine y

Max: 70.6 [g] at 0.059 [s]

Min: -17.9 [g] at 0.091 [s]



B-58

8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

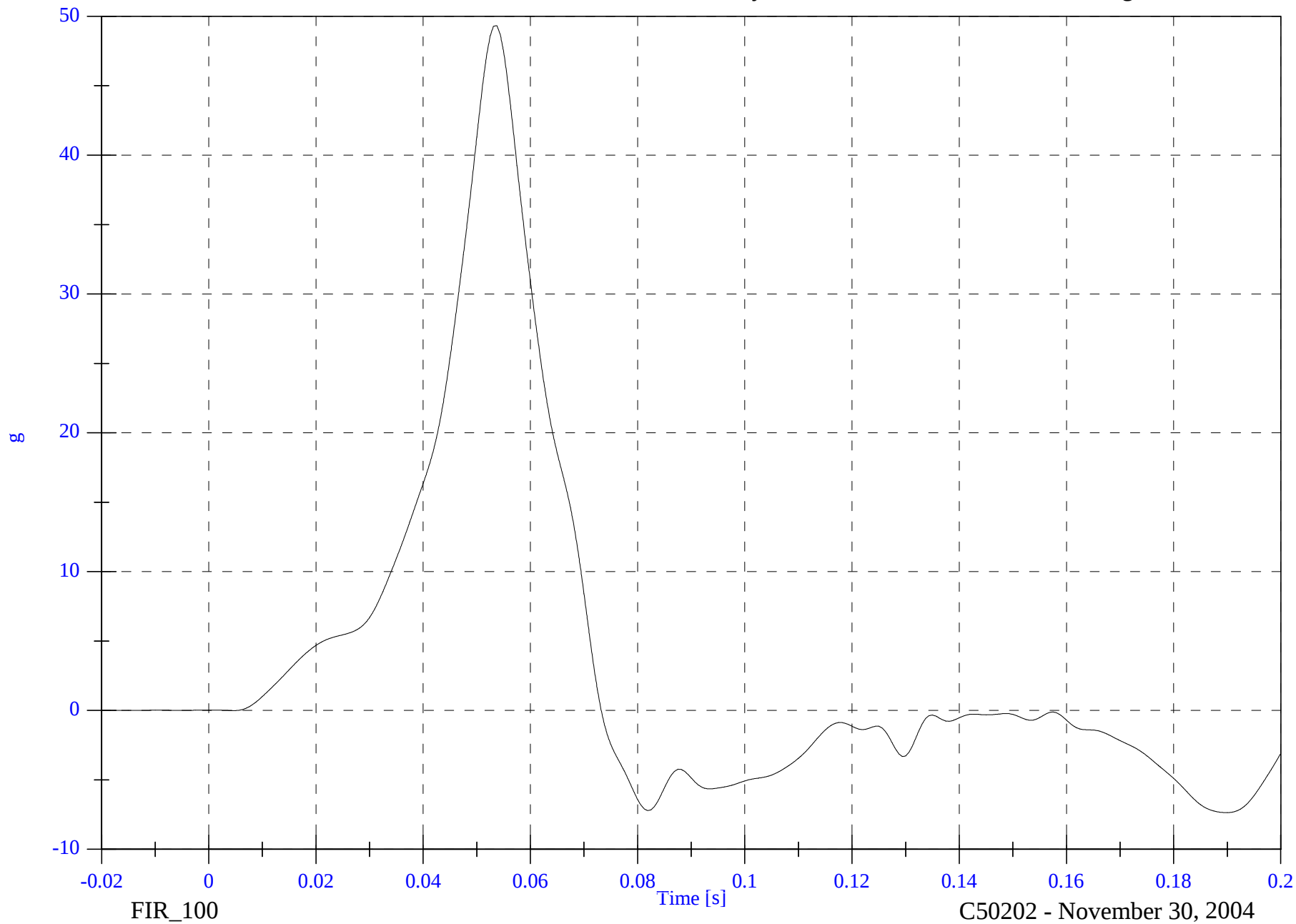
V2P4 Pelvic y

Max: 49.3 [g] at 0.054 [s]

Min: -7.4 [g] at 0.190 [s]

B-59

8675-F214-21



2005 214 Inducant Test 2 - 2005 Ford Mustang

V2 A1 Right Front Sill x

Max: 1.9 [g] at 0.056 [s]

Min: -7.5 [g] at 0.016 [s]



B-60

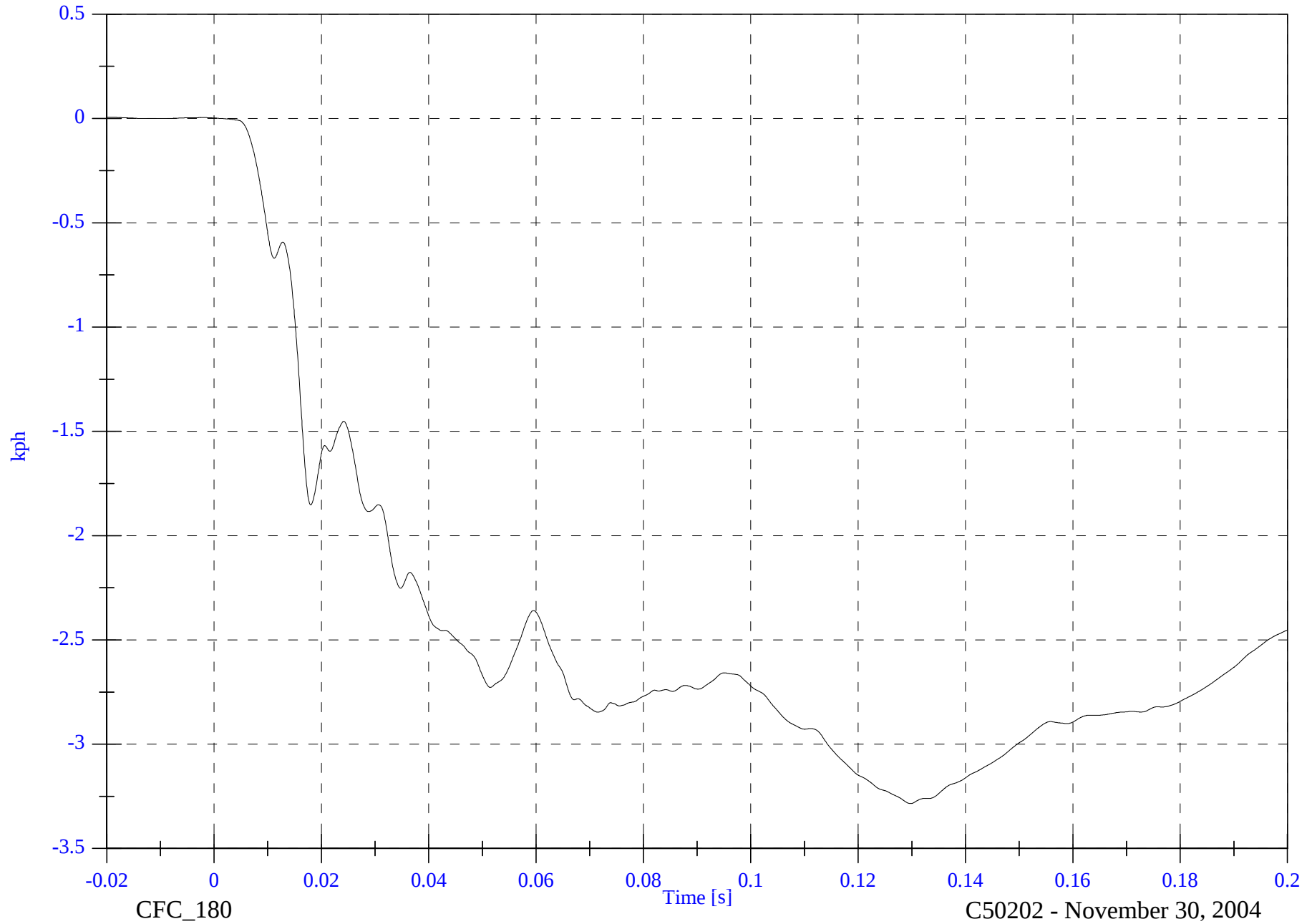
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2 A1 Right Front Sill x Velocity

Max: 0.0 [kph] at -0.019 [s]

Min: -3.3 [kph] at 0.130 [s]



B-61

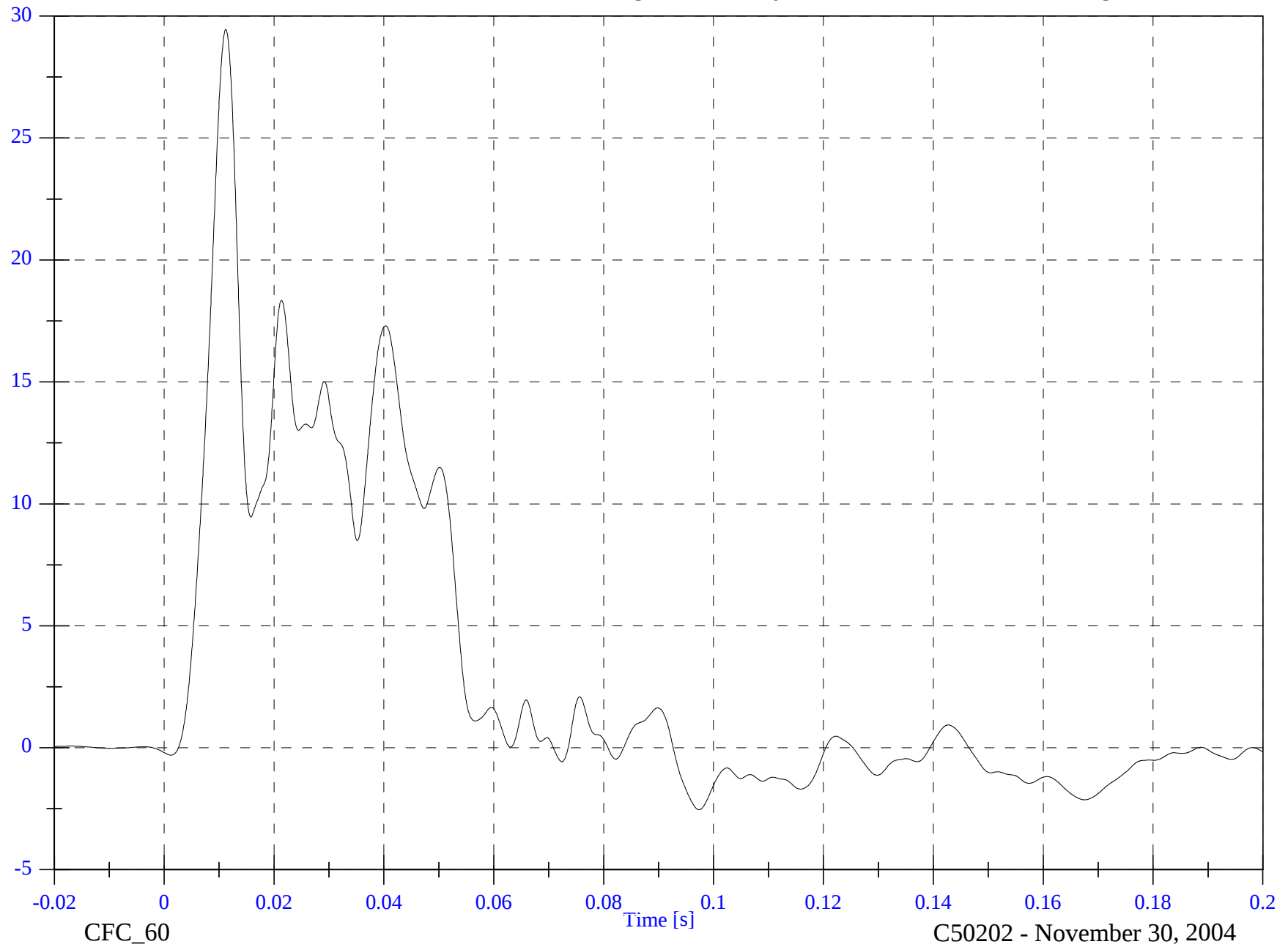
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2 A1 Right Front Sill y

Max: 29.5 [g] at 0.011 [s]

Min: -2.5 [g] at 0.097 [s]



B-62

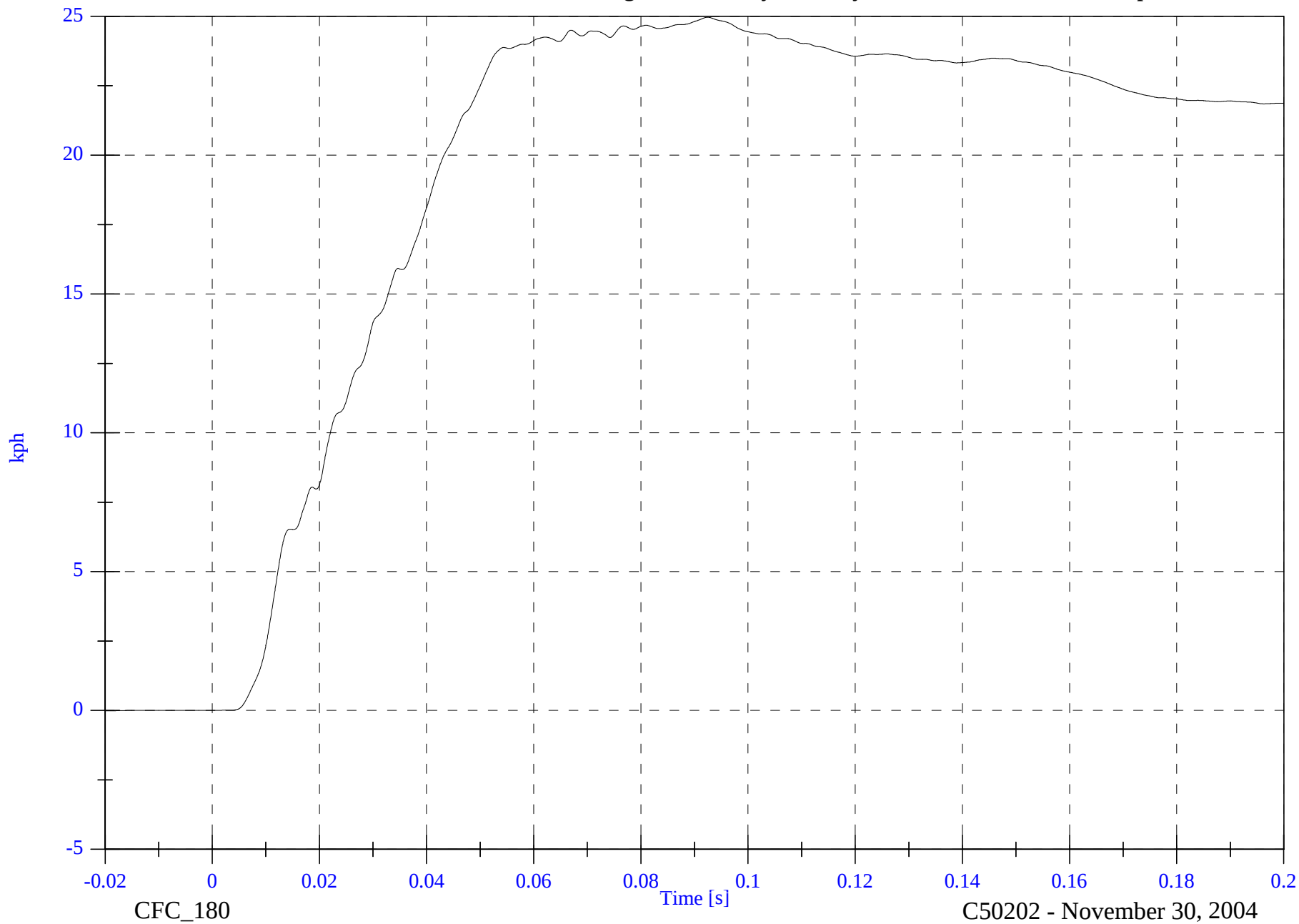
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A1 Right Front Sill y Velocity

Max: 25.0 [kph] at 0.092 [s]

Min: -0.0 [kph] at -0.020 [s]



B-63

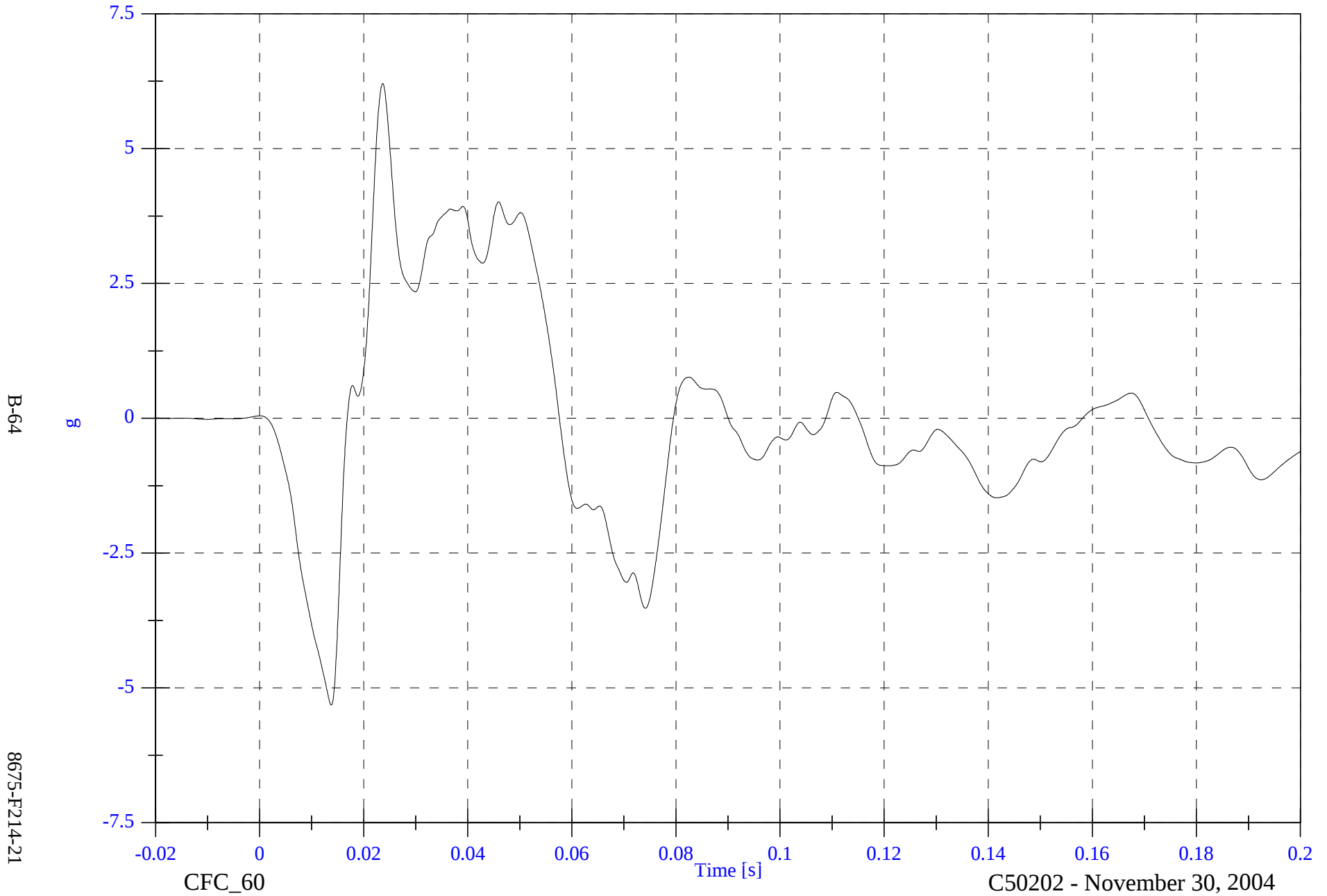
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2 A1 Right Front Sill z

Max: 6.2 [g] at 0.024 [s]

Min: -5.3 [g] at 0.014 [s]

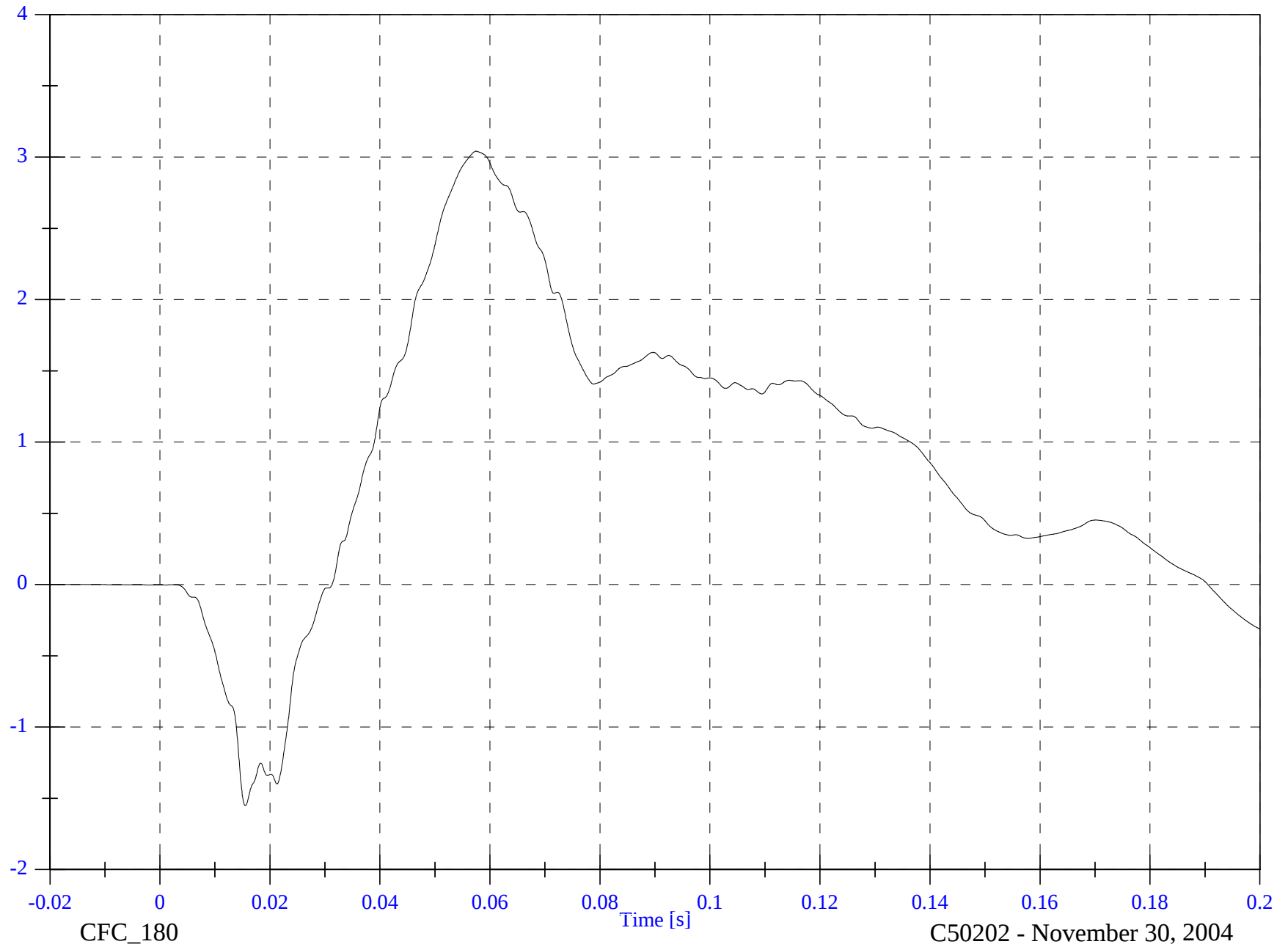


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A1 Right Front Sill z Velocity

Max: 3.0 [kph] at 0.057 [s]

Min: -1.6 [kph] at 0.015 [s]



B-65

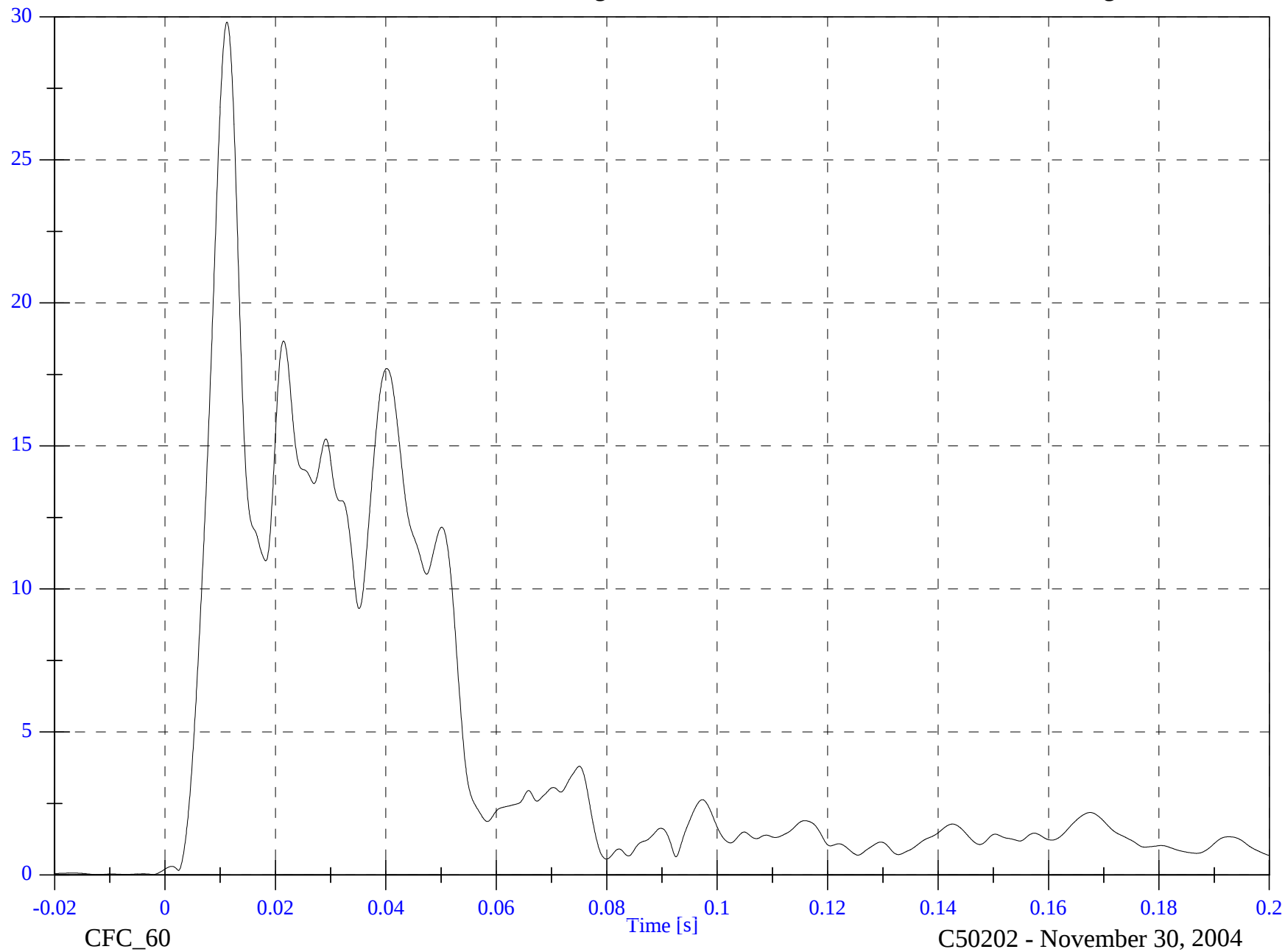
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2 A1 Right Front Sill Resultant

Max: 29.8 [g] at 0.011 [s]

Min: 0.0 [g] at -0.012 [s]



B-66

8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2 A2 Right Rear Sill x

Max: 2.1 [g] at 0.056 [s]

Min: -8.1 [g] at 0.015 [s]



B-67

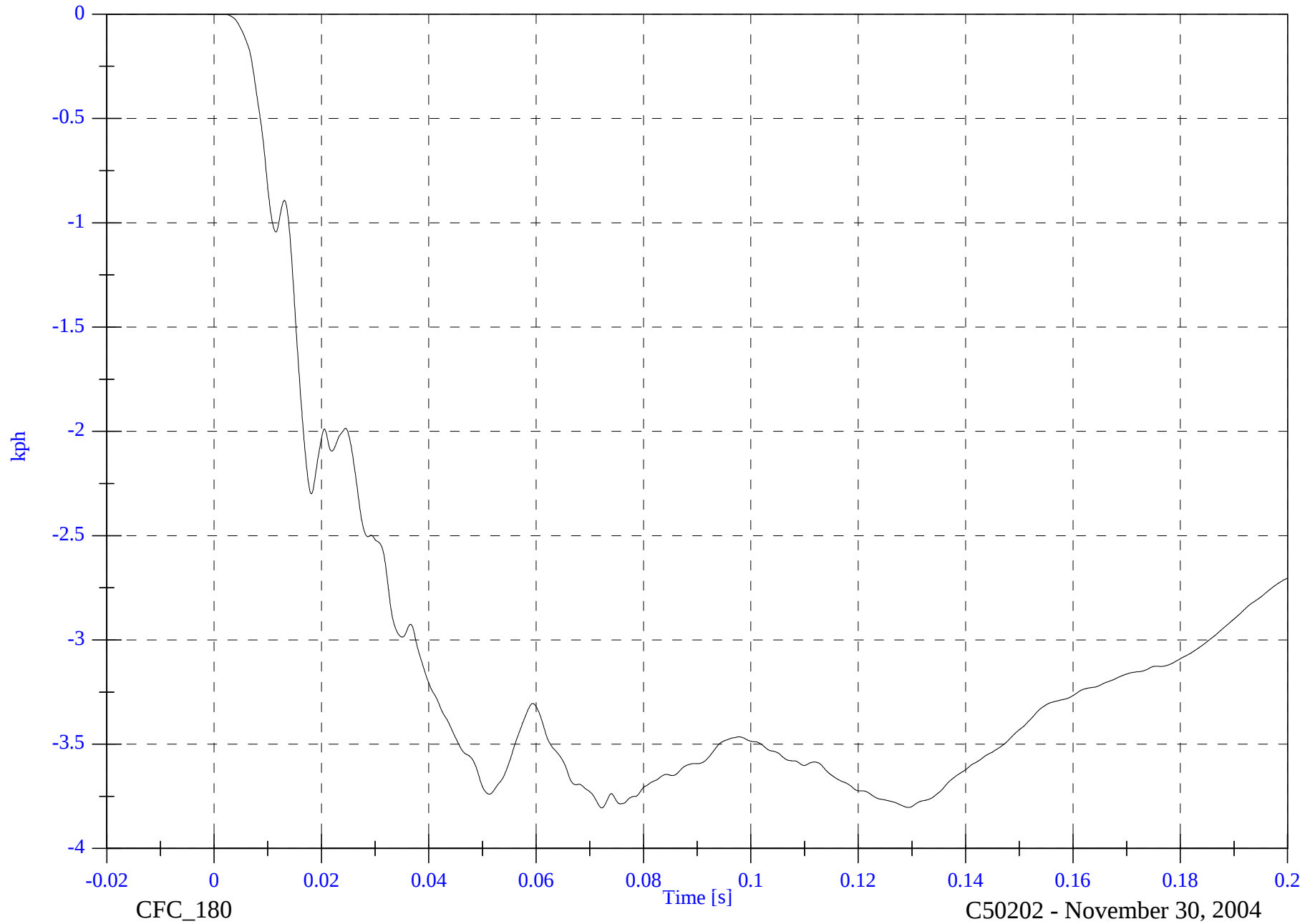
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2 A2 Right Rear Sill x Velocity

Max: 0.0 [kph] at -0.013 [s]

Min: -3.8 [kph] at 0.072 [s]



B-68

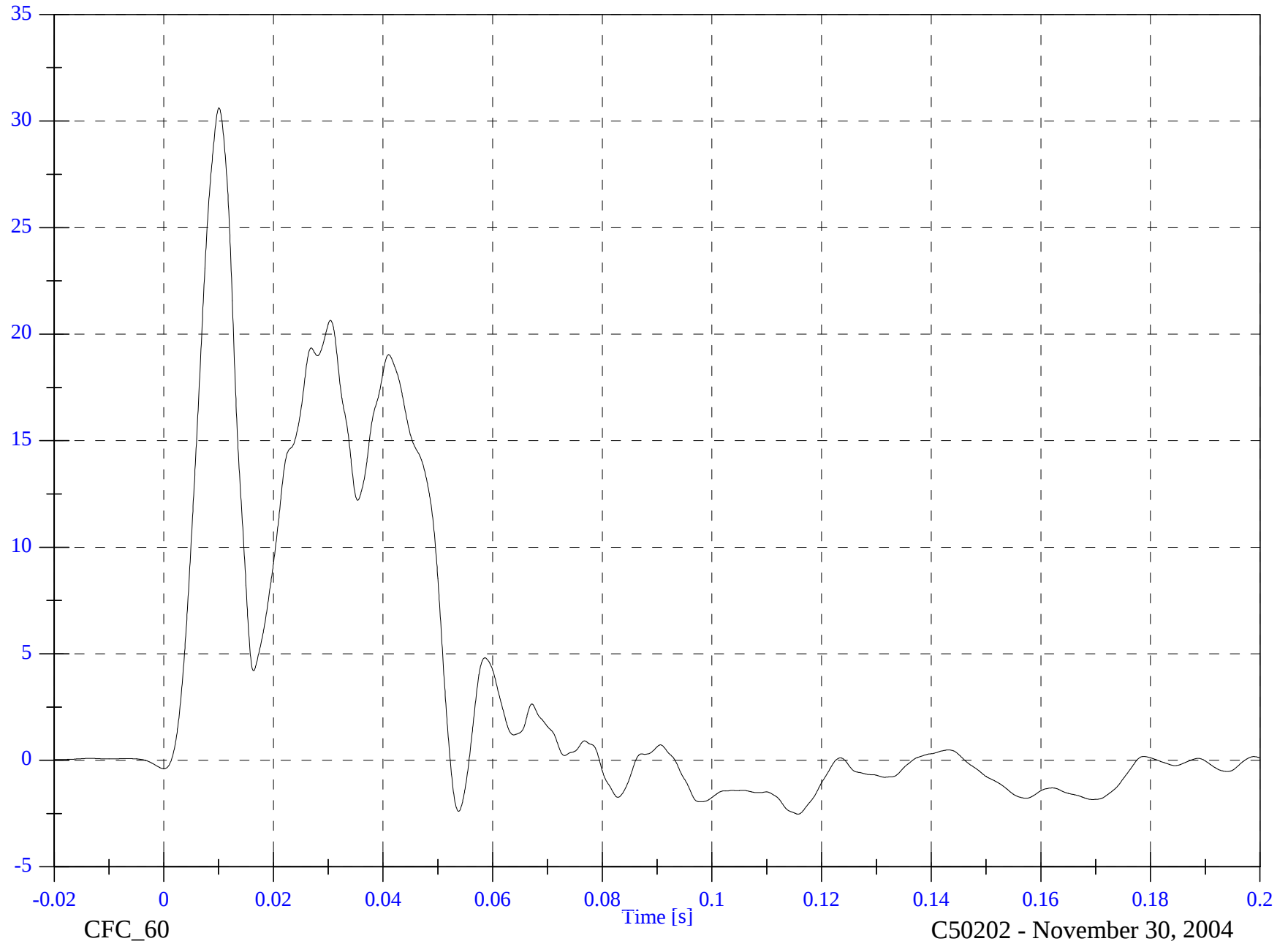
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2 A2 Right Rear Sill y

Max: 30.6 [g] at 0.010 [s]

Min: -2.5 [g] at 0.116 [s]



B-69

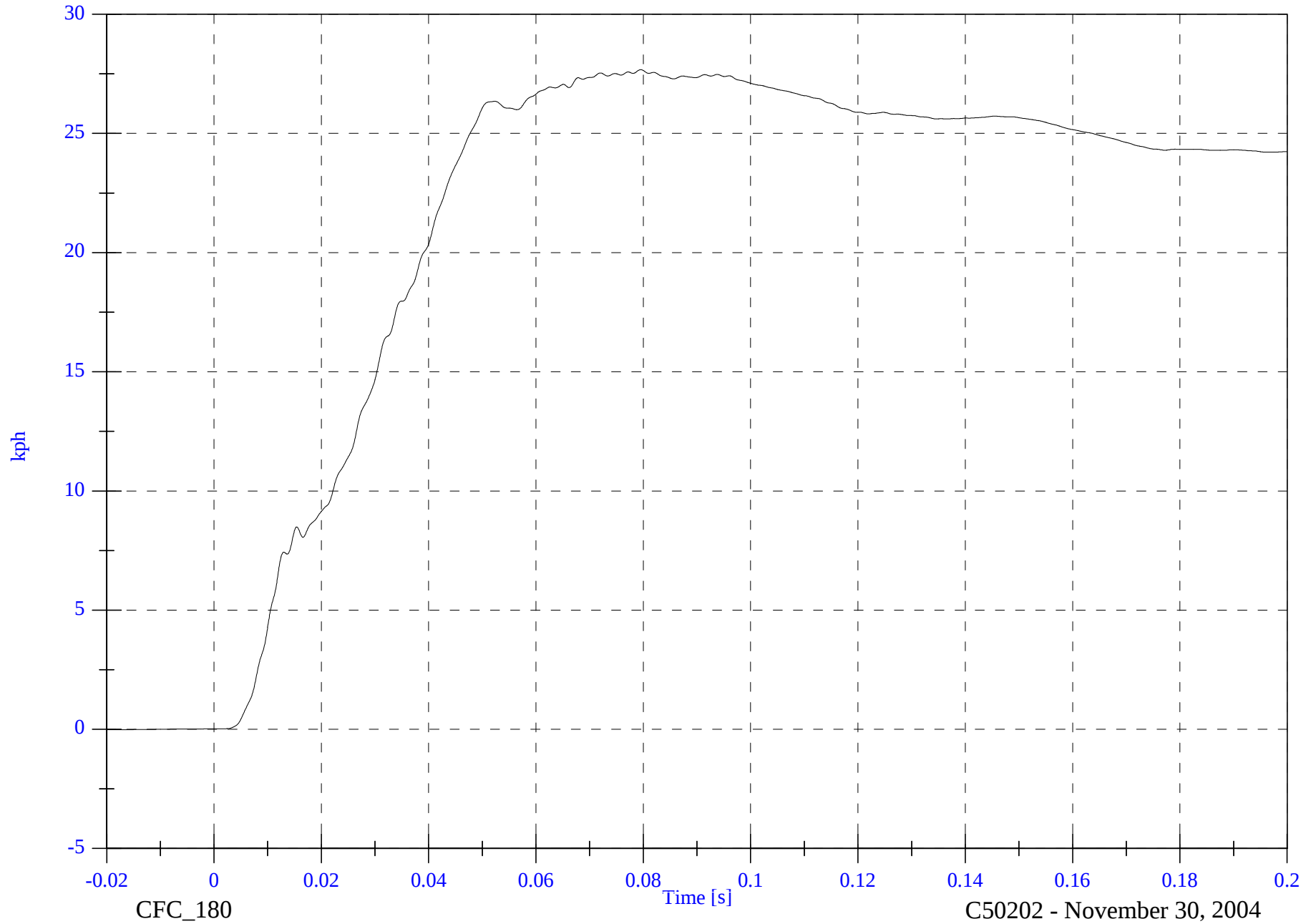
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A2 Right Rear Sill y Velocity

Max: 27.7 [kph] at 0.079 [s]

Min: -0.0 [kph] at -0.020 [s]



B-70

8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

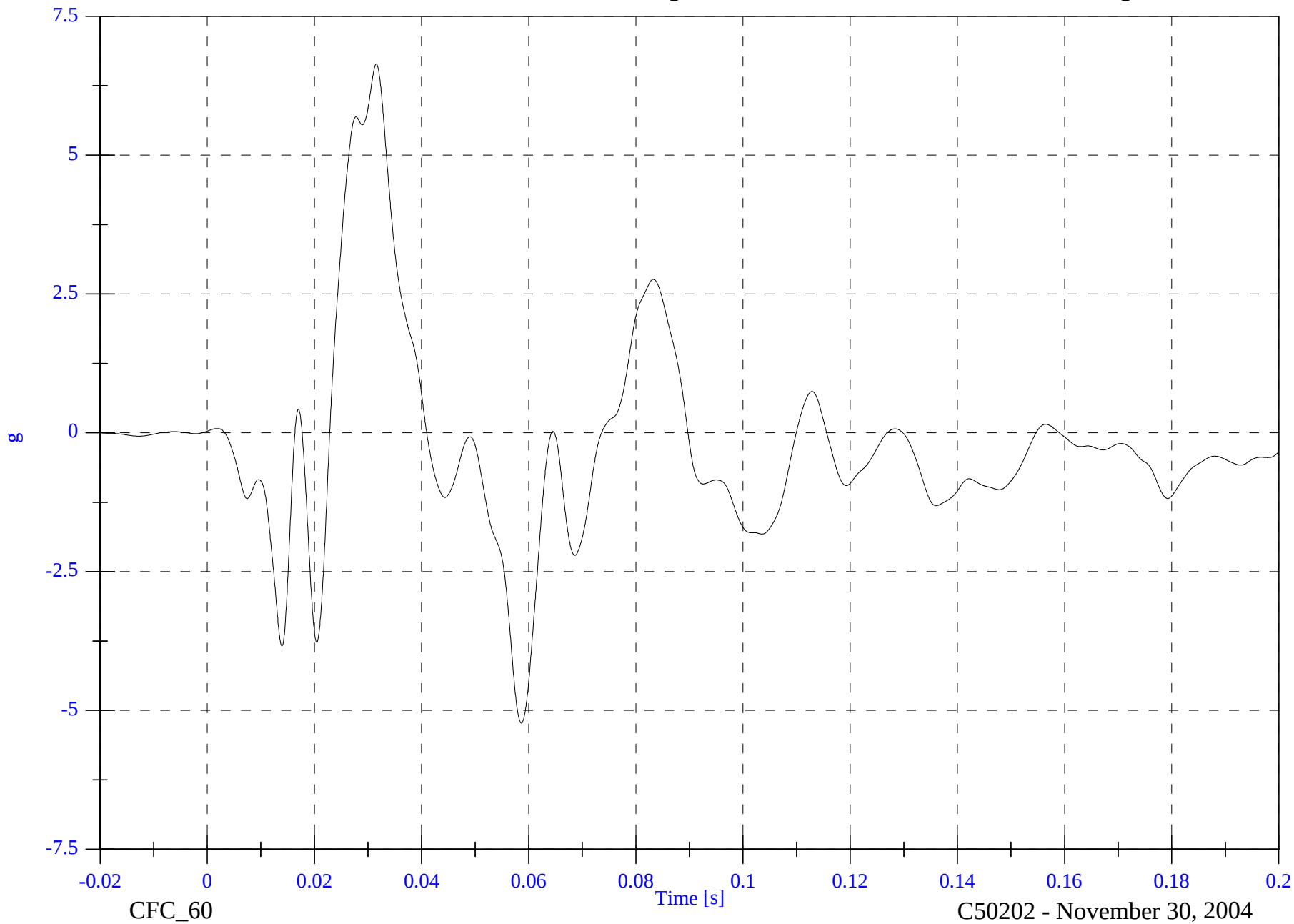
V2 A2 Right Rear Sill z

Max: 6.6 [g] at 0.032 [s]

Min: -5.2 [g] at 0.059 [s]

B-71

8675-F214-21

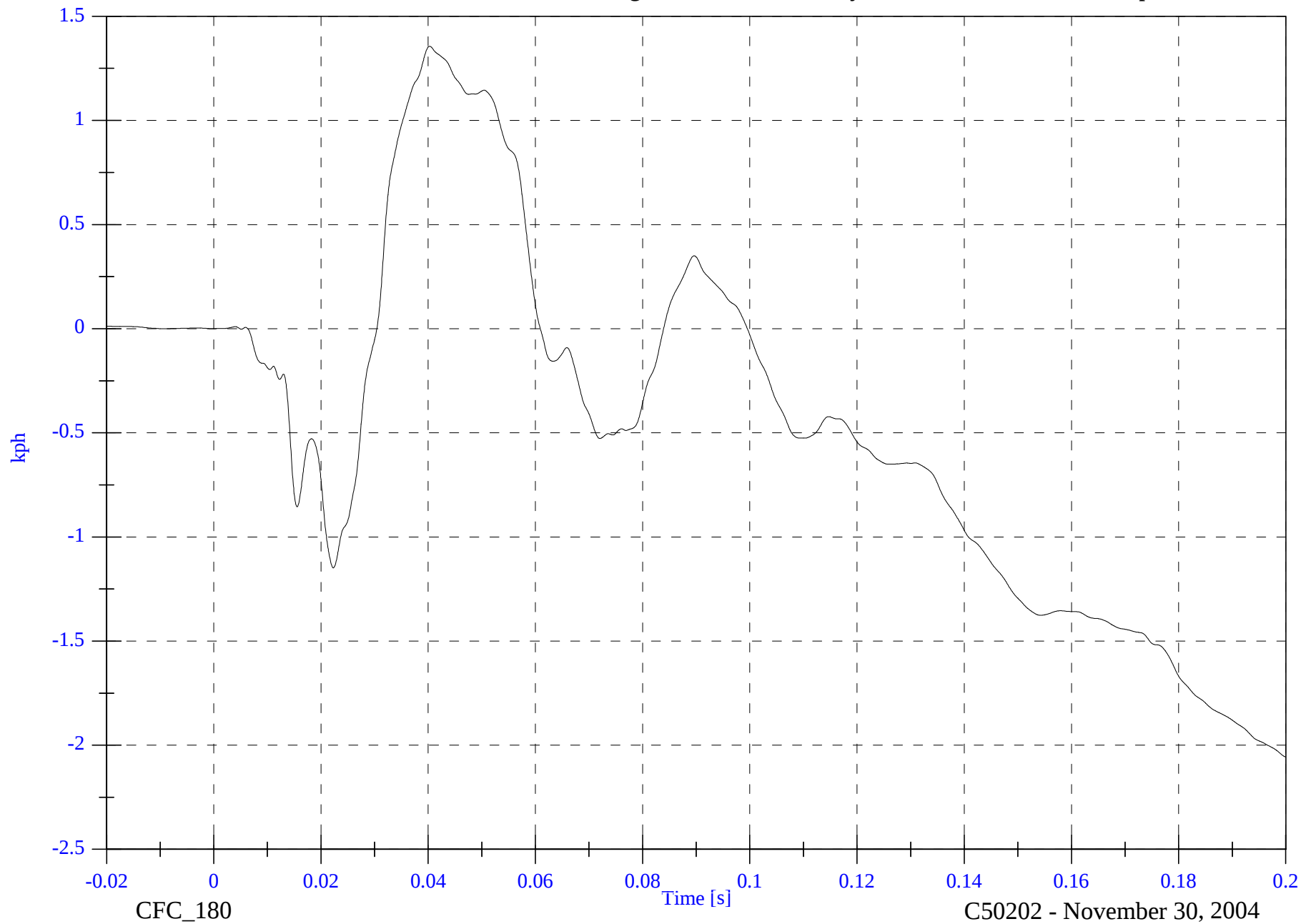


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A2 Right Rear Sill z Velocity

Max: 1.4 [kph] at 0.040 [s]

Min: -2.1 [kph] at 0.200 [s]



B-72

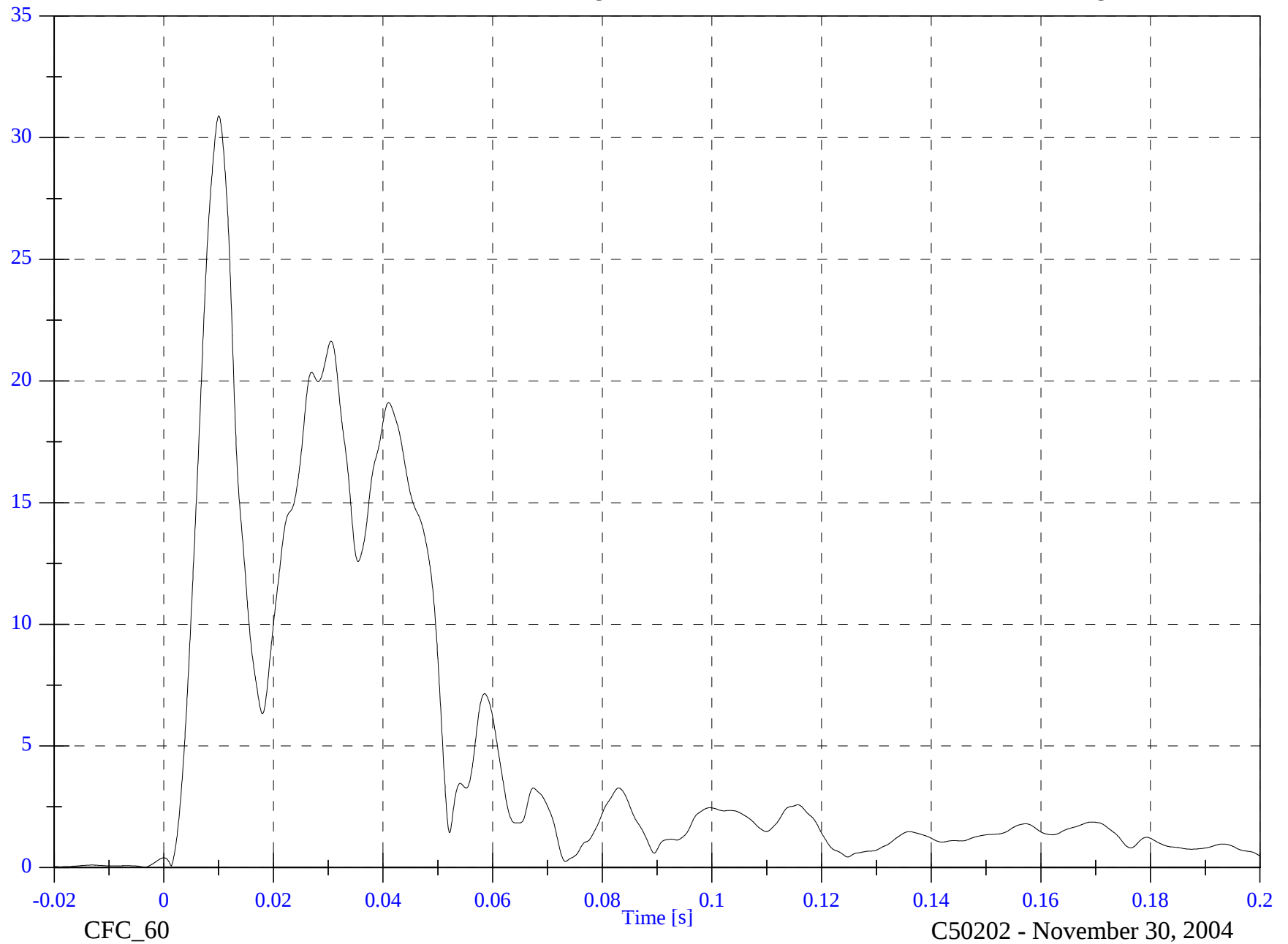
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2 A2 Right Rear Sill Resultant

Max: 30.9 [g] at 0.010 [s]

Min: 0.0 [g] at -0.003 [s]



B-73

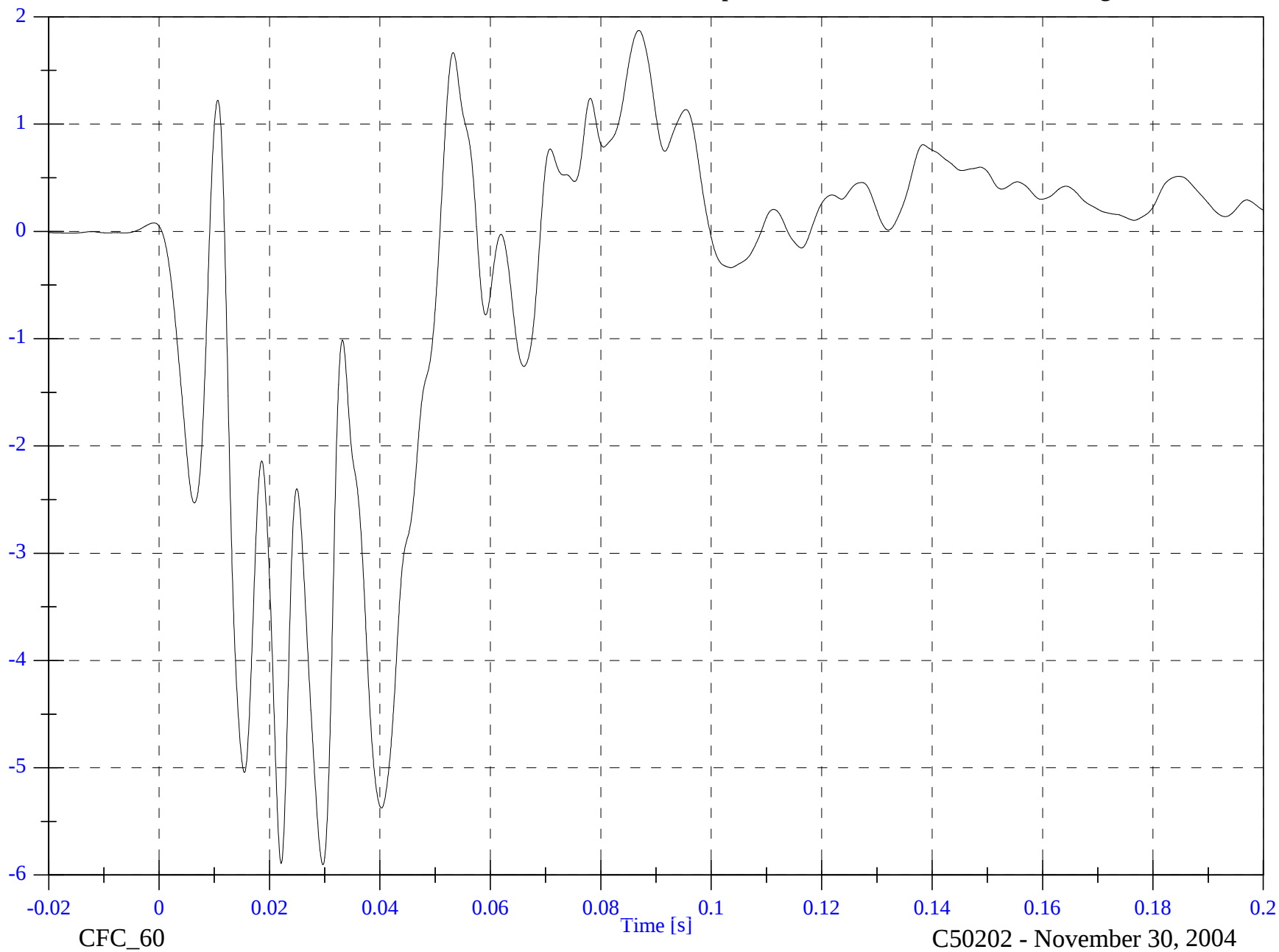
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2 A3 Rear Floorpan x

Max: 1.9 [g] at 0.087 [s]

Min: -5.9 [g] at 0.030 [s]



B-74

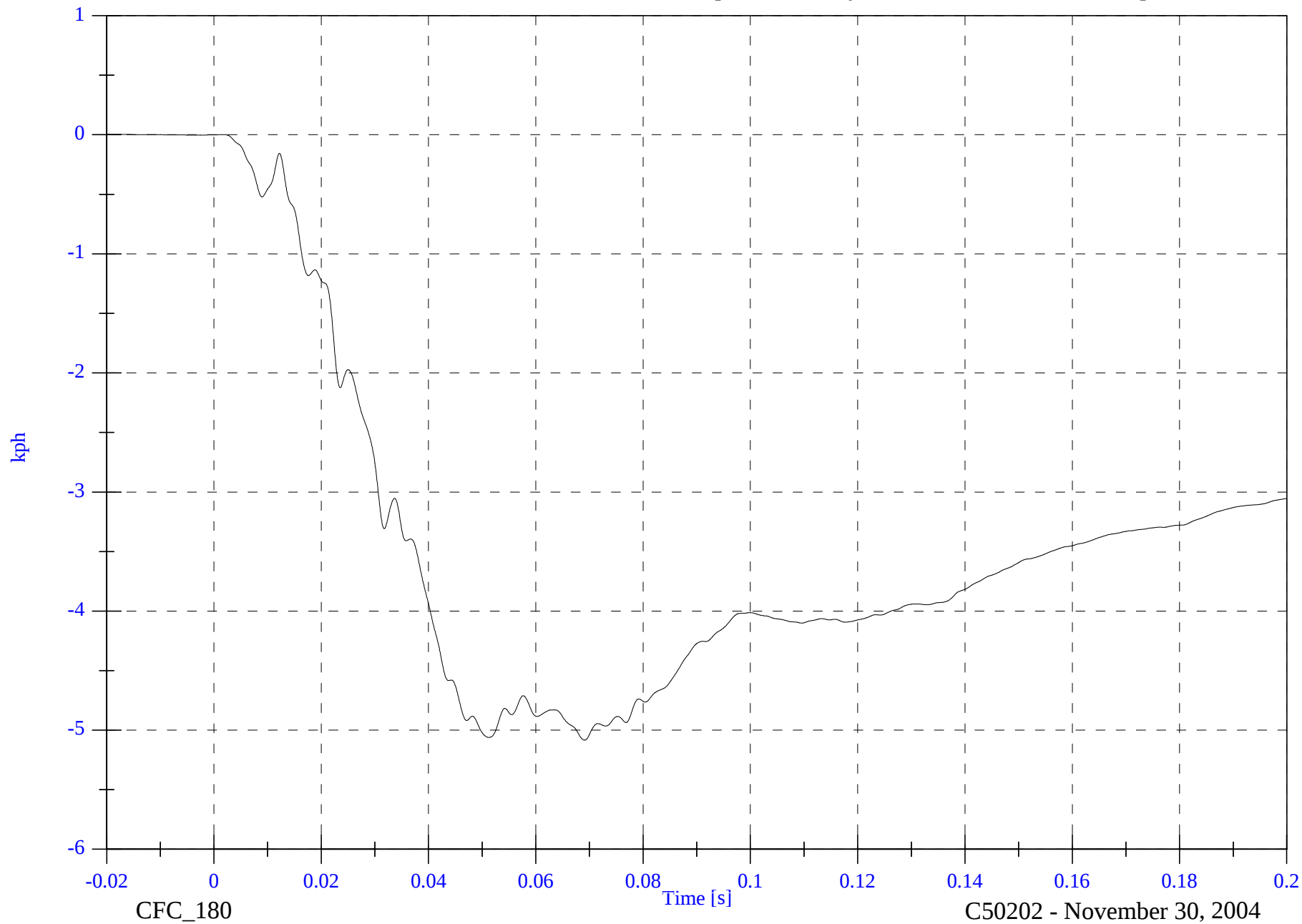
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A3 Rear Floorpan x Velocity

Max: 0.0 [kph] at -0.020 [s]

Min: -5.1 [kph] at 0.069 [s]



B-75

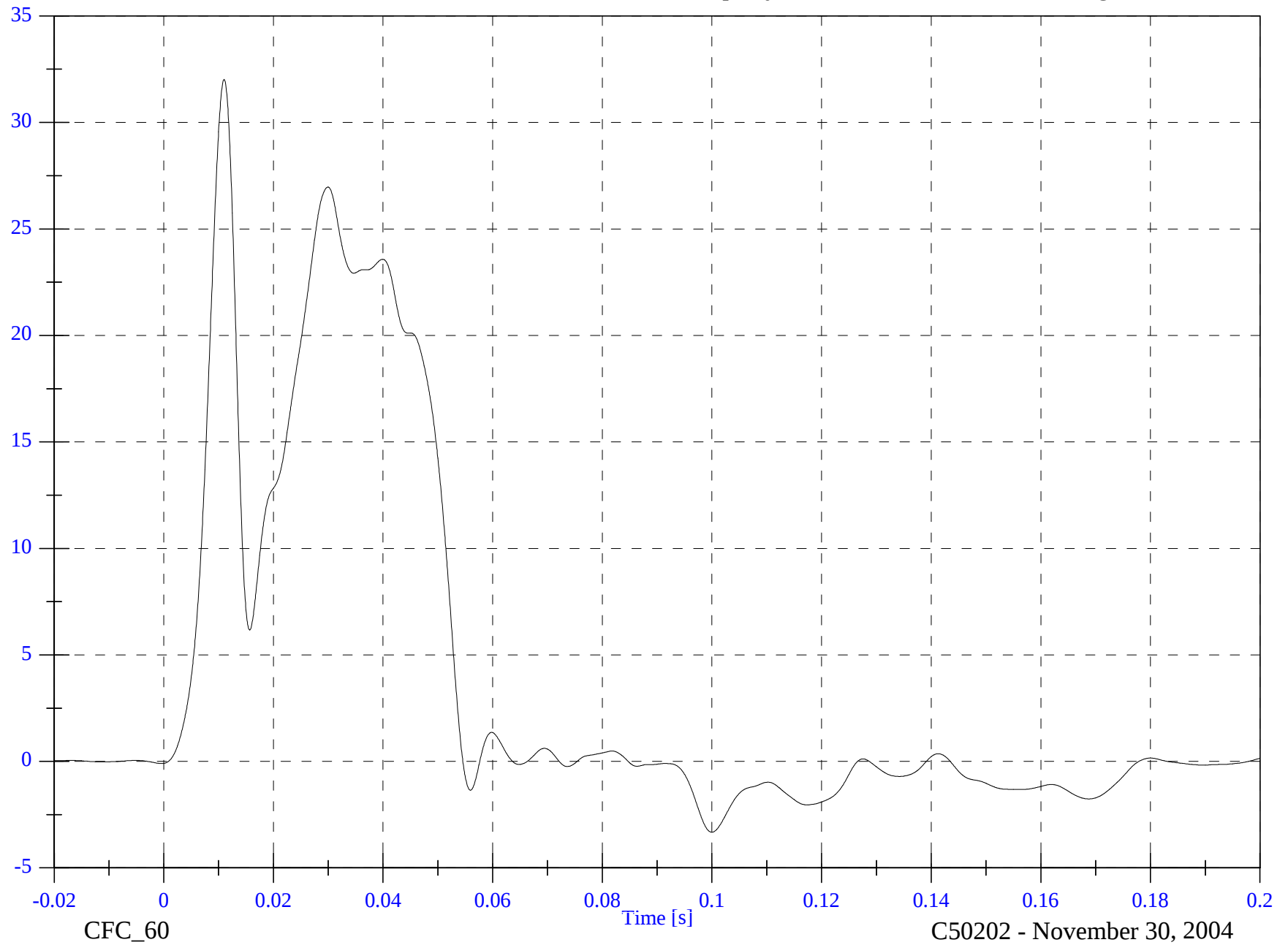
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A3 Rear Floorpan y

Max: 32.0 [g] at 0.011 [s]

Min: -3.3 [g] at 0.100 [s]



B-76

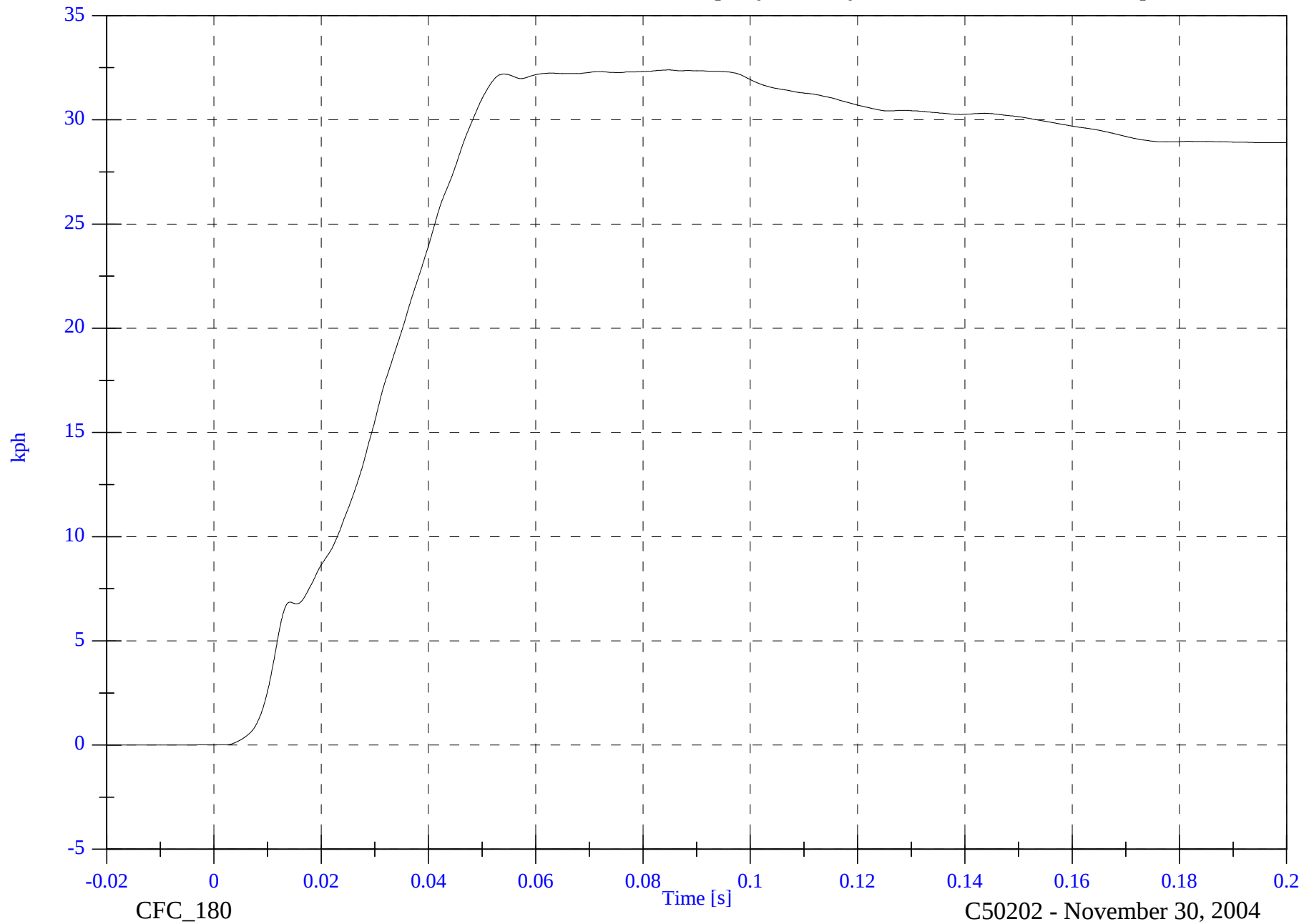
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A3 Rear Floorpan y Velocity

Max: 32.4 [kph] at 0.085 [s]

Min: -0.0 [kph] at -0.020 [s]



B-77

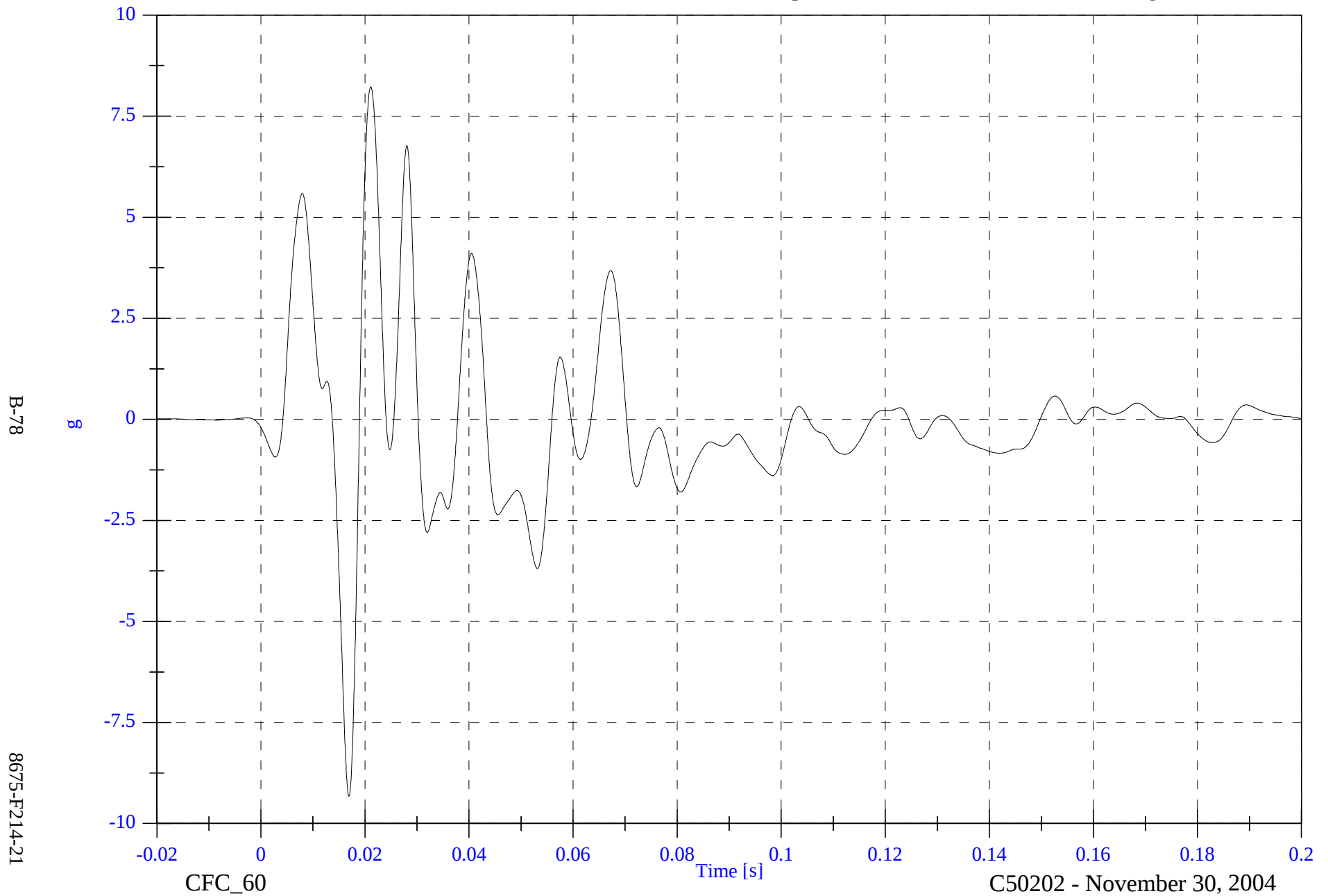
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2 A3 Rear Floorpan z

Max: 8.2 [g] at 0.021 [s]

Min: -9.3 [g] at 0.017 [s]



2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A3 Rear Floorpan z Velocity

Max: 1.7 [kph] at 0.029 [s]

Min: -0.6 [kph] at 0.019 [s]



B-79

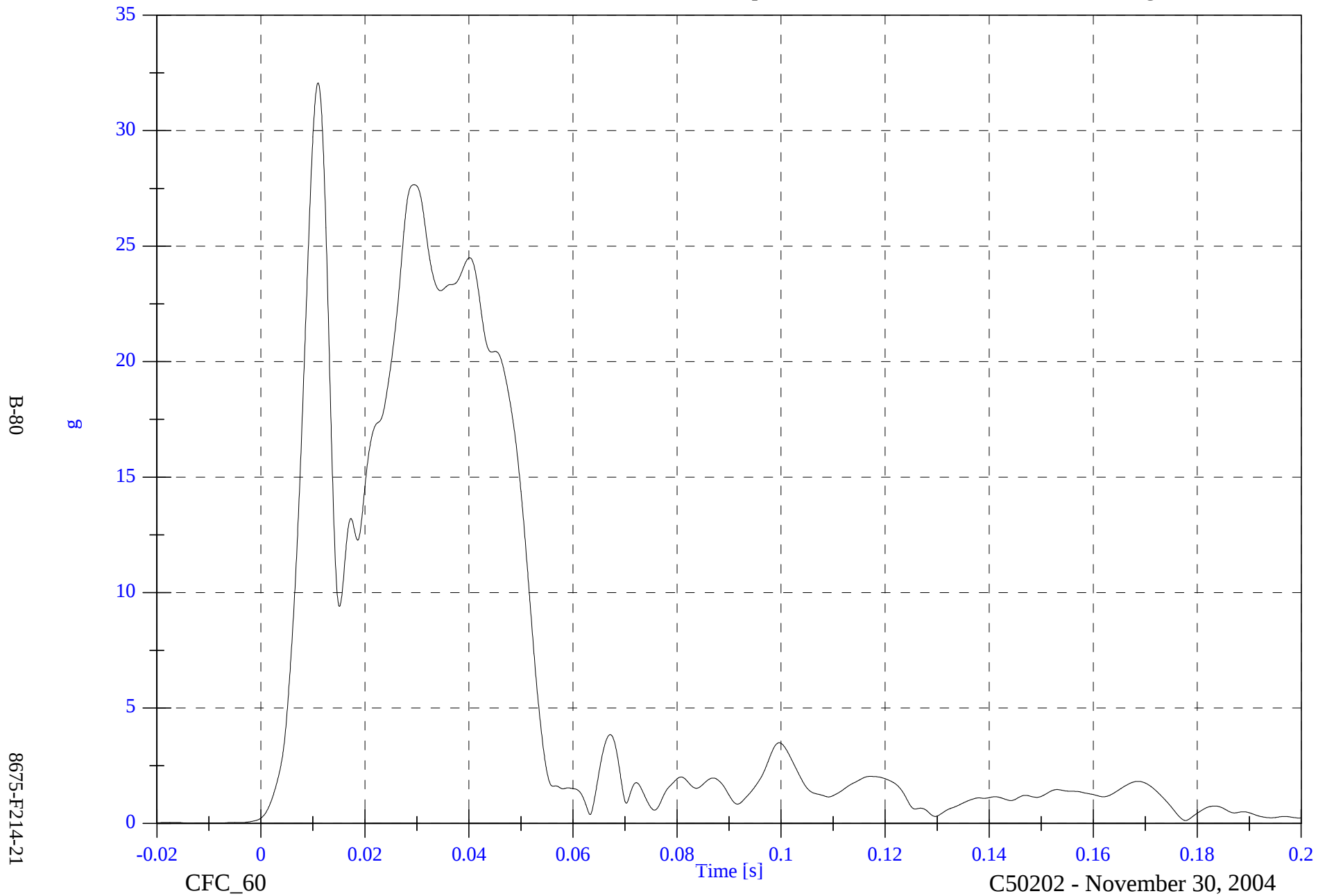
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A3 Rear Floorpan Resultant

Max: 32.1 [g] at 0.011 [s]

Min: 0.0 [g] at -0.014 [s]



2005 214 Inducant Test 2 - 2005 Ford Mustang

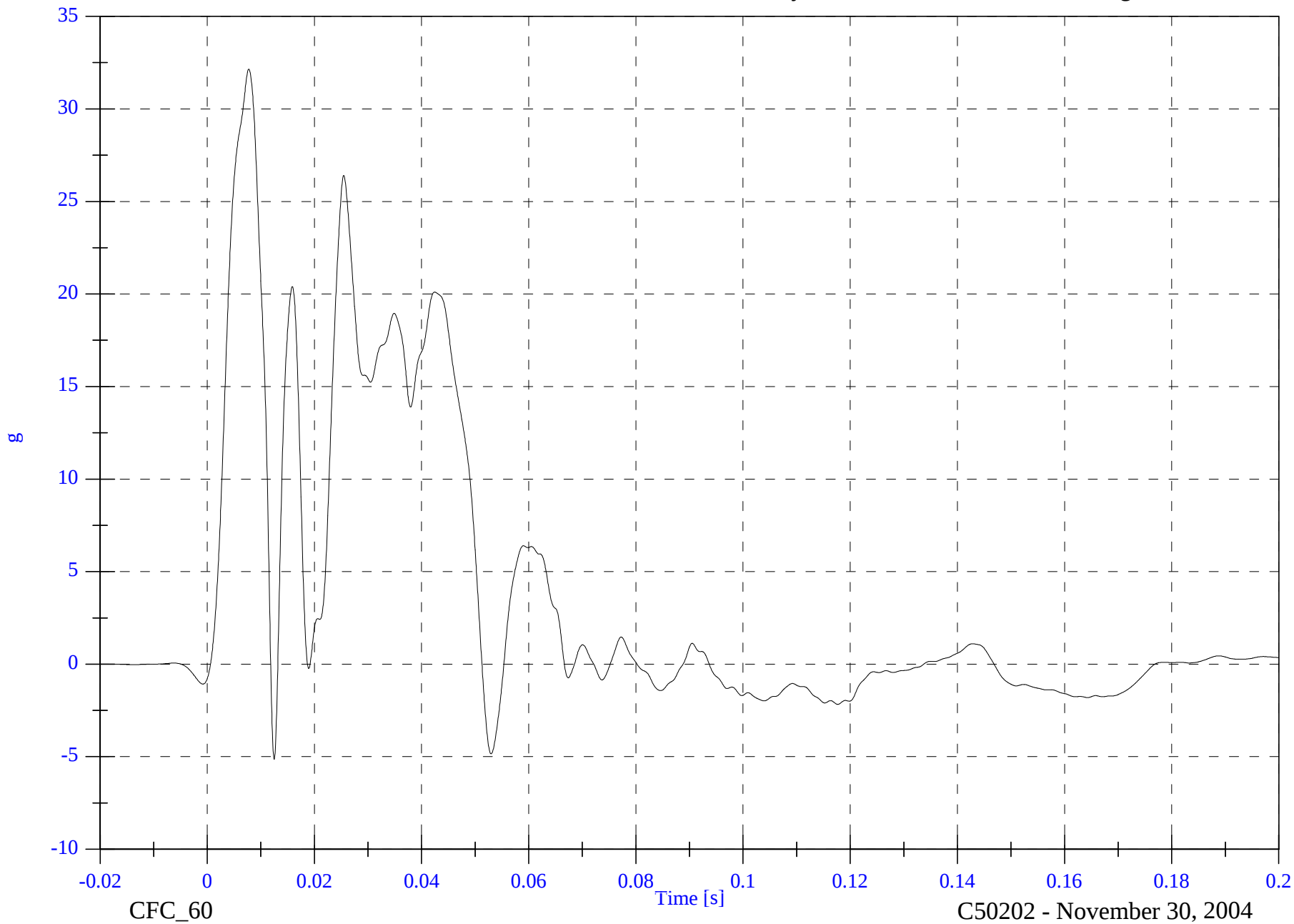
V2 A4 Left Rear Sill y

Max: 32.2 [g] at 0.008 [s]

Min: -5.1 [g] at 0.012 [s]

B-81

8675-F214-21

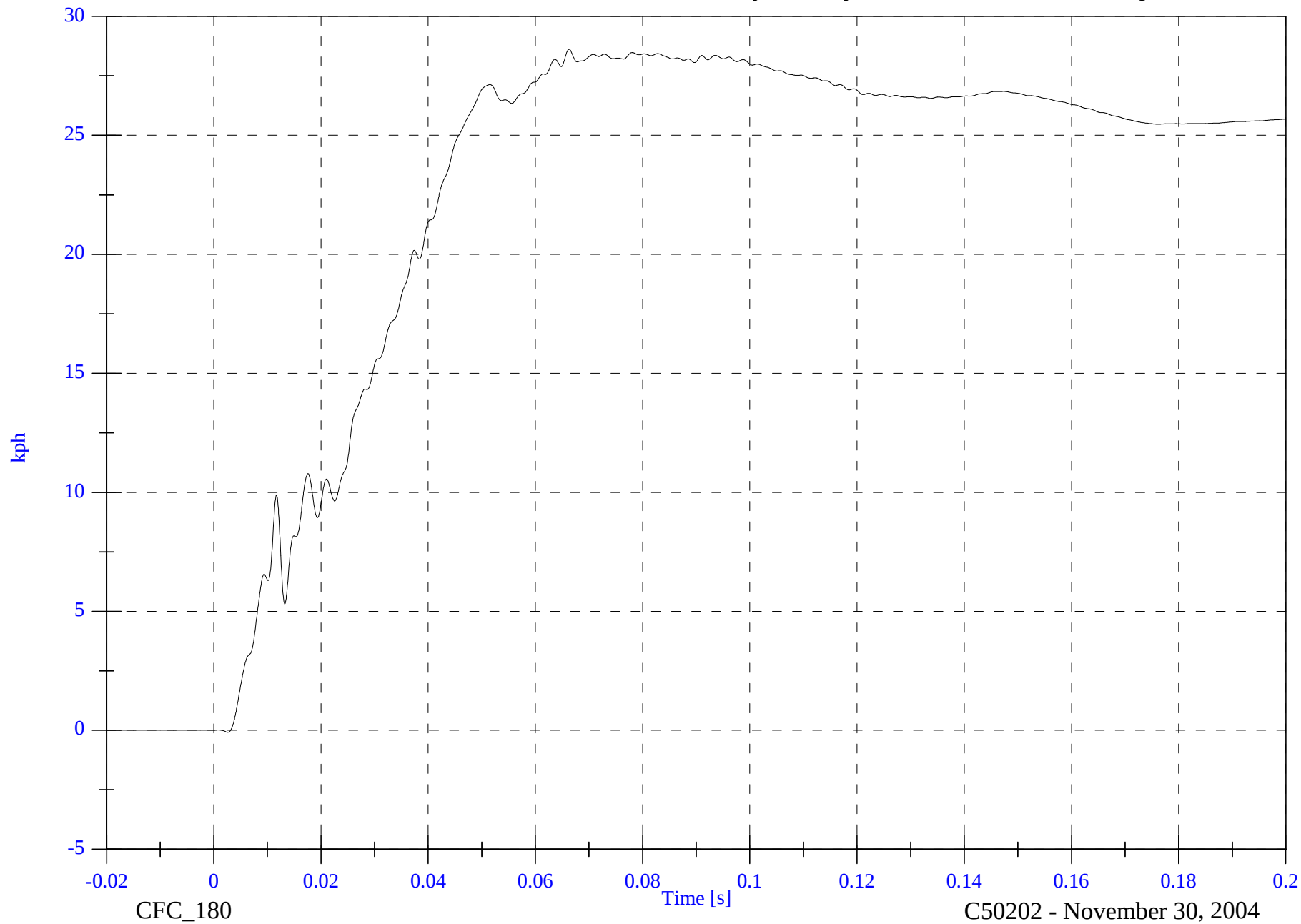


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A4 Left Rear Sill y Velocity

Max: 28.6 [kph] at 0.066 [s]

Min: -0.1 [kph] at 0.003 [s]



B-82

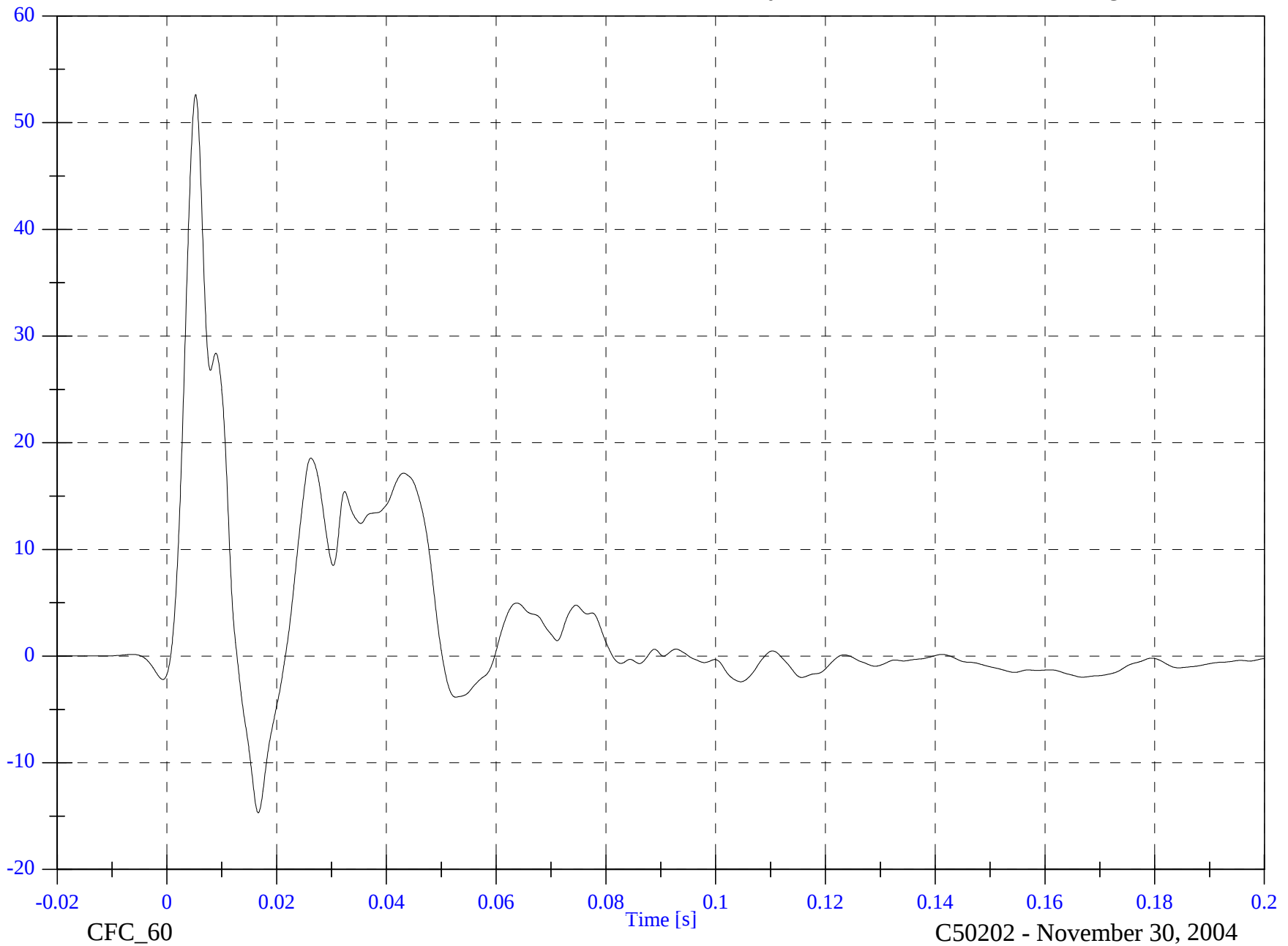
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A5 Left Front Sill y

Max: 52.6 [g] at 0.005 [s]

Min: -14.7 [g] at 0.017 [s]



B-83

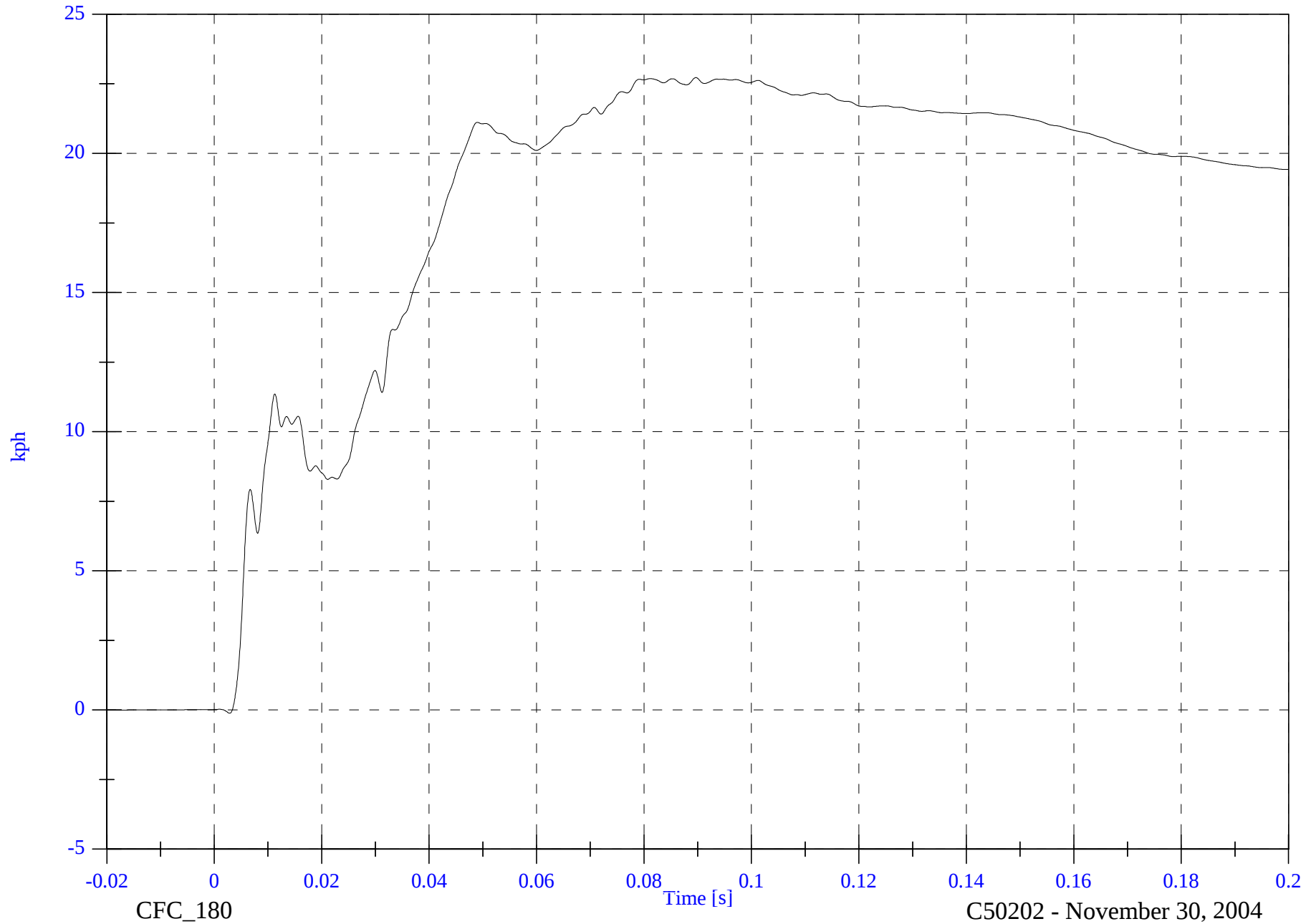
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A5 Left Front Sill y Velocity

Max: 22.7 [kph] at 0.090 [s]

Min: -0.1 [kph] at 0.003 [s]



B-84

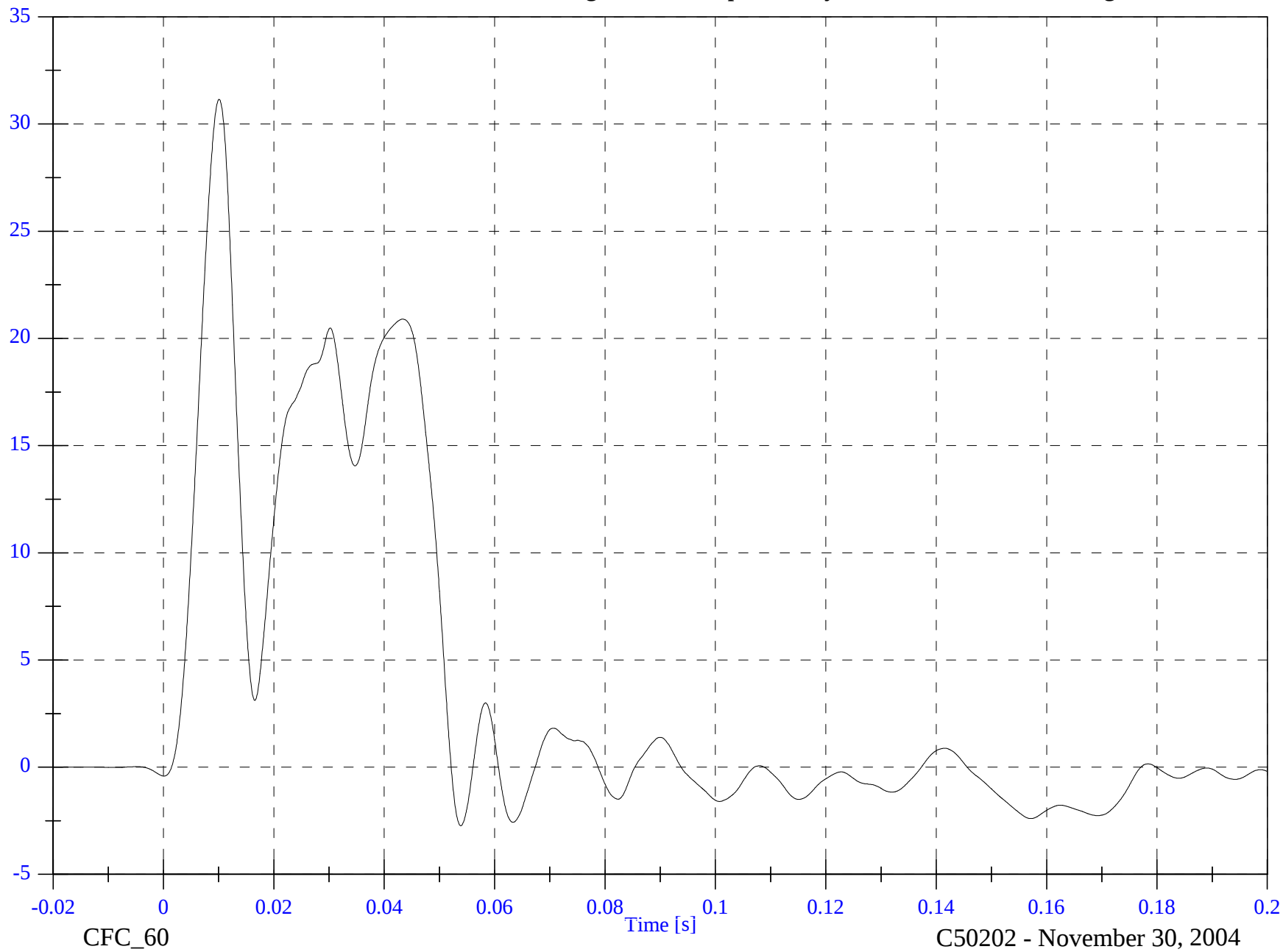
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2 A7 Right Rear Compartment y

Max: 31.1 [g] at 0.010 [s]

Min: -2.7 [g] at 0.054 [s]



B-85

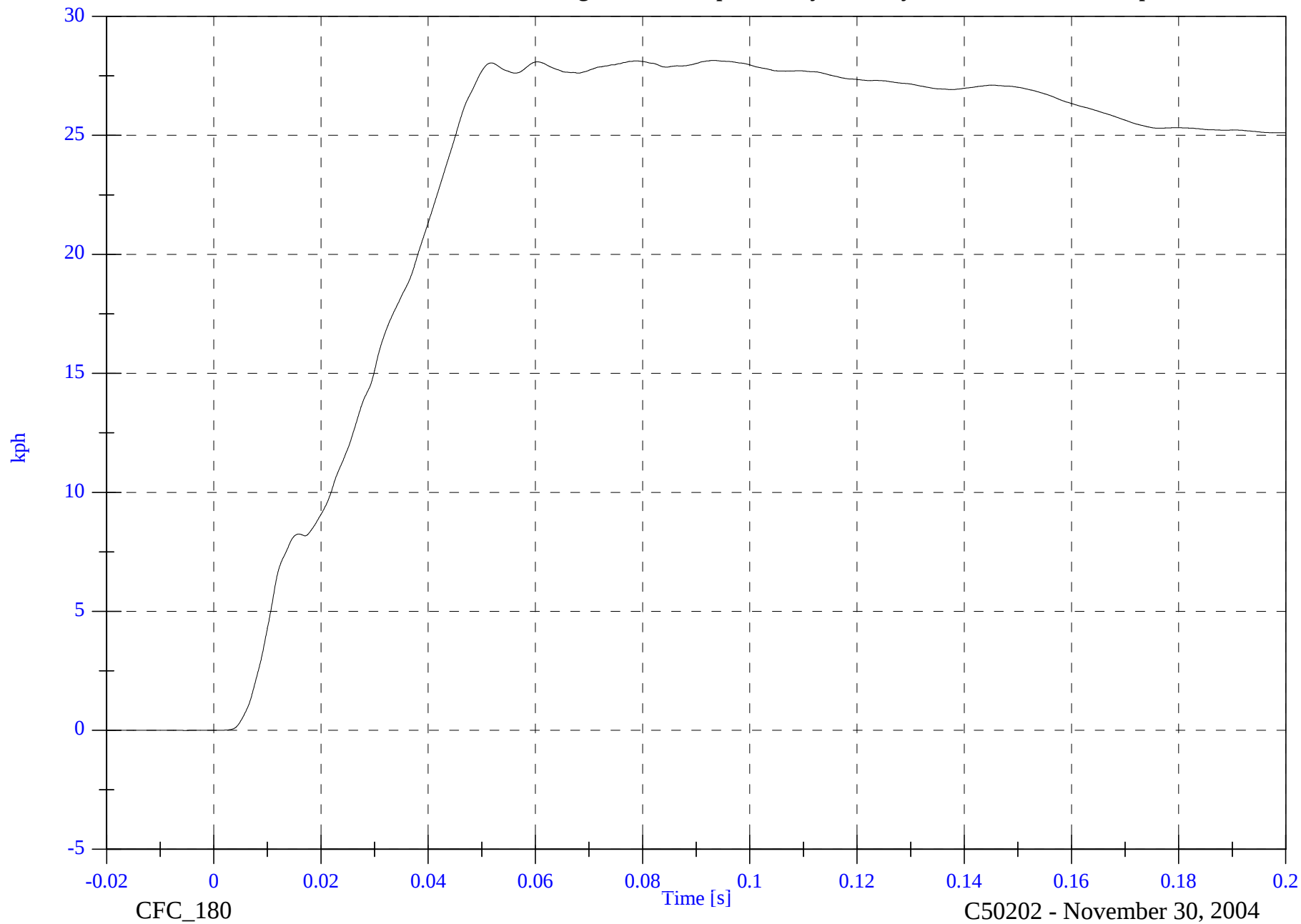
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A7 Right Rear Compartment y Velocity

Max: 28.1 [kph] at 0.093 [s]

Min: -0.0 [kph] at -0.005 [s]



B-86

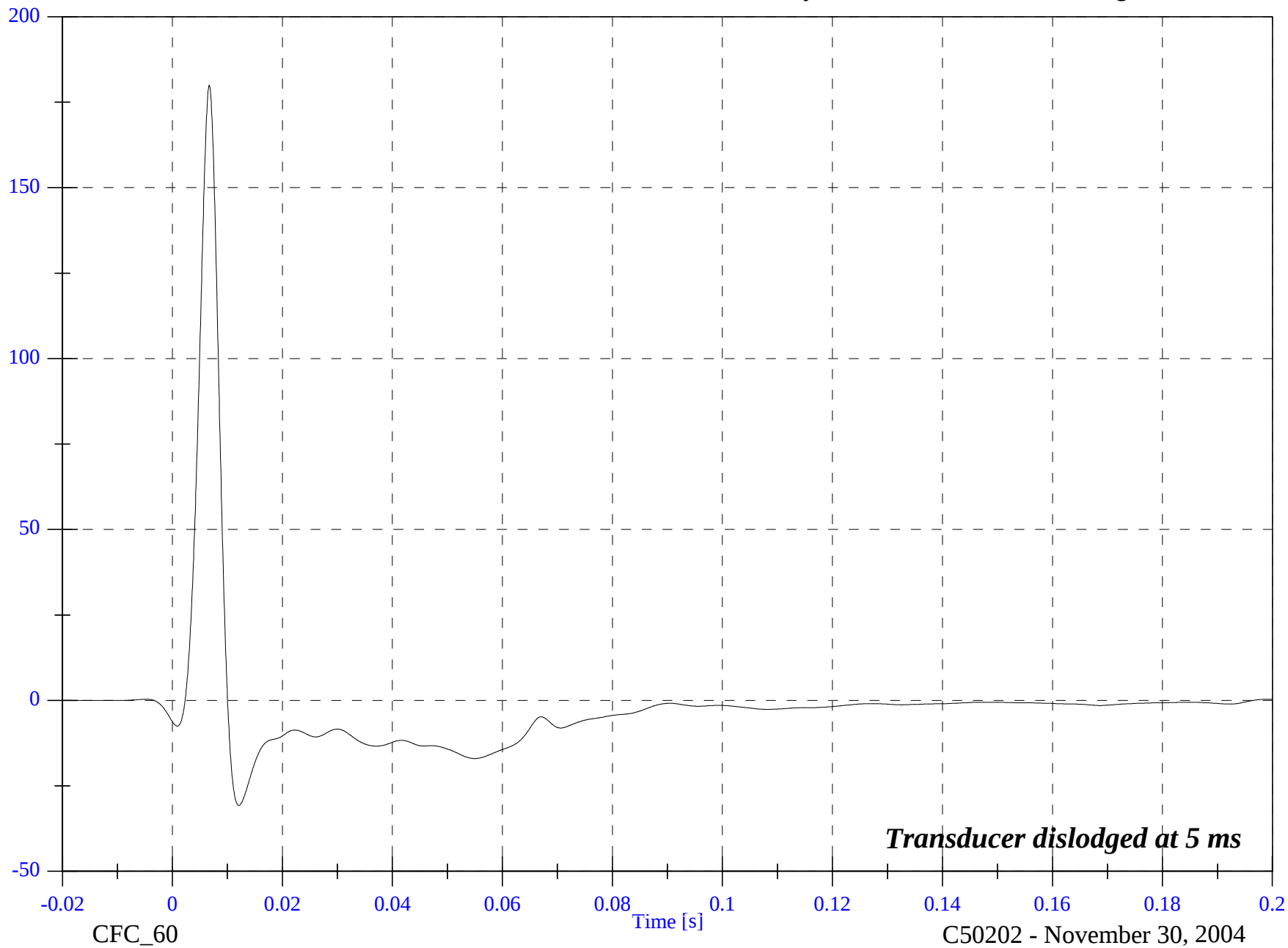
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2 A12 Left Lower B Post y

Max: 180.0 [g] at 0.007 [s]

Min: -30.7 [g] at 0.012 [s]



B-87

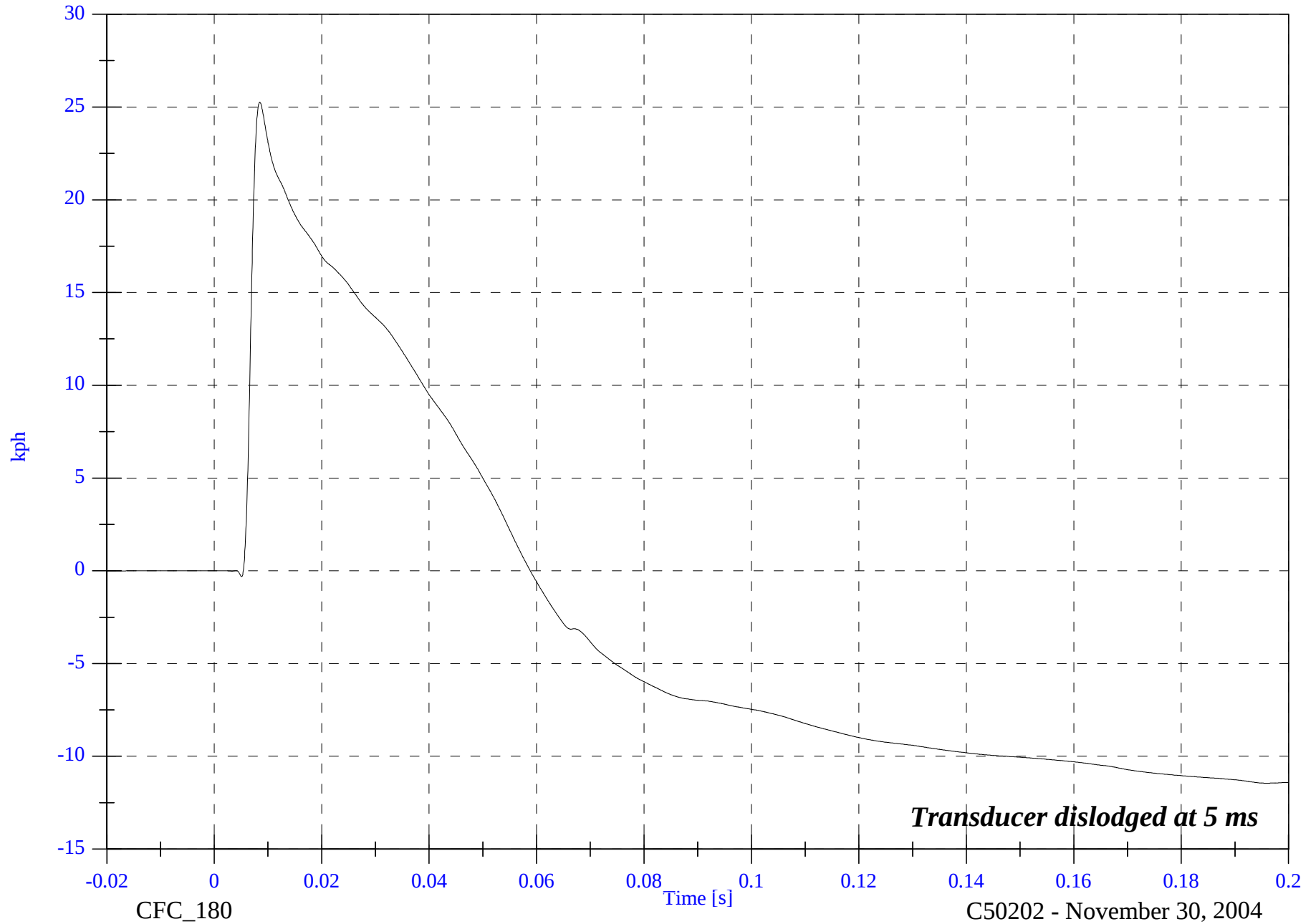
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A12 Left Lower B Post y Velocity

Max: 25.3 [kph] at 0.009 [s]

Min: -11.4 [kph] at 0.196 [s]



B-88

8675-F214-21

CFC_180

Transducer dislodged at 5 ms

C50202 - November 30, 2004

2005 214 Indicant Test 2 - 2005 Ford Mustang

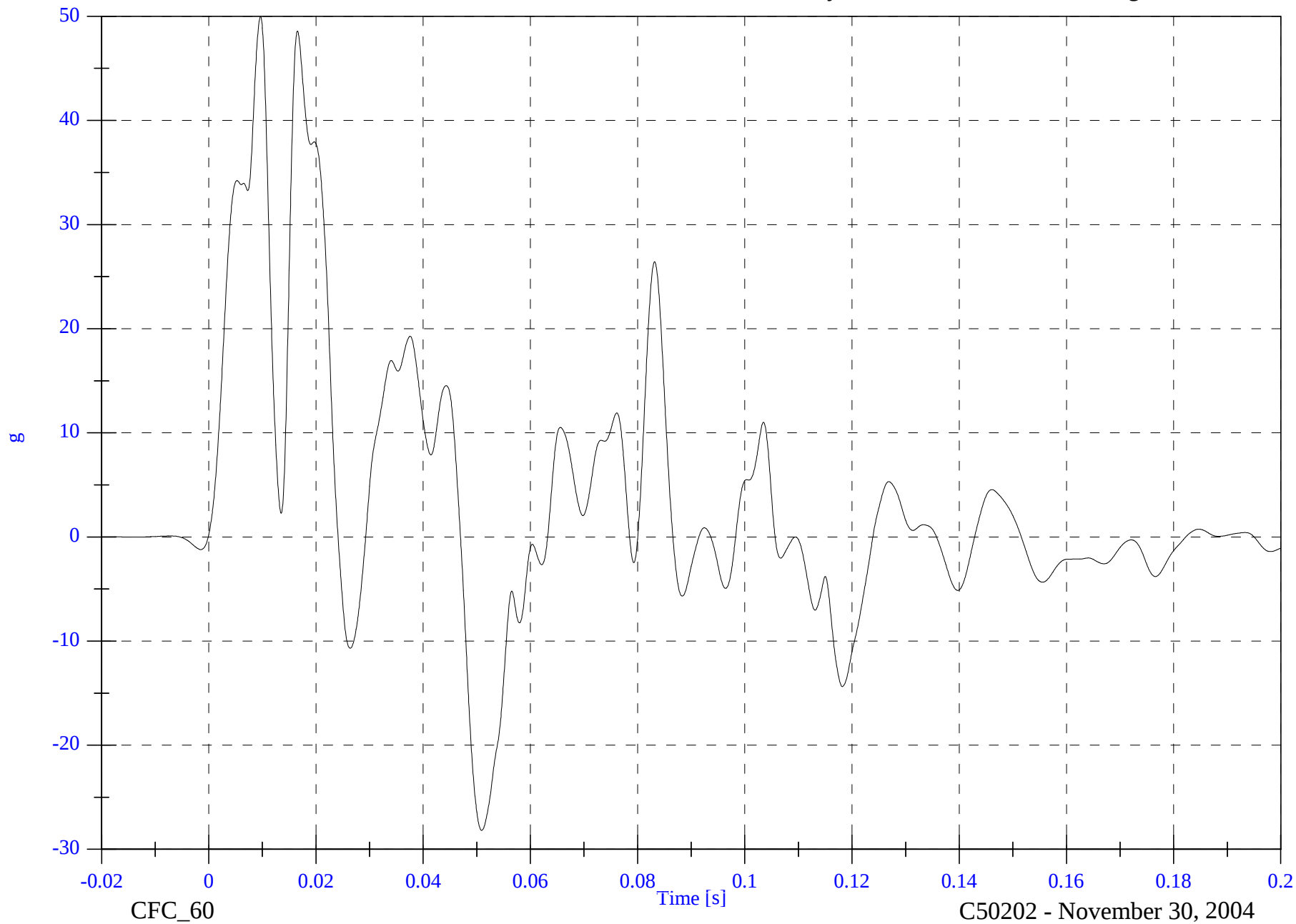
V2 A13 Left Middle B Post y

Max: 50.0 [g] at 0.010 [s]

Min: -28.2 [g] at 0.051 [s]

B-89

8675-F214-21



2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A13 Left Middle B Post y Velocity

Max: 31.3 [kph] at 0.105 [s]

Min: -0.0 [kph] at 0.002 [s]



B-90

8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

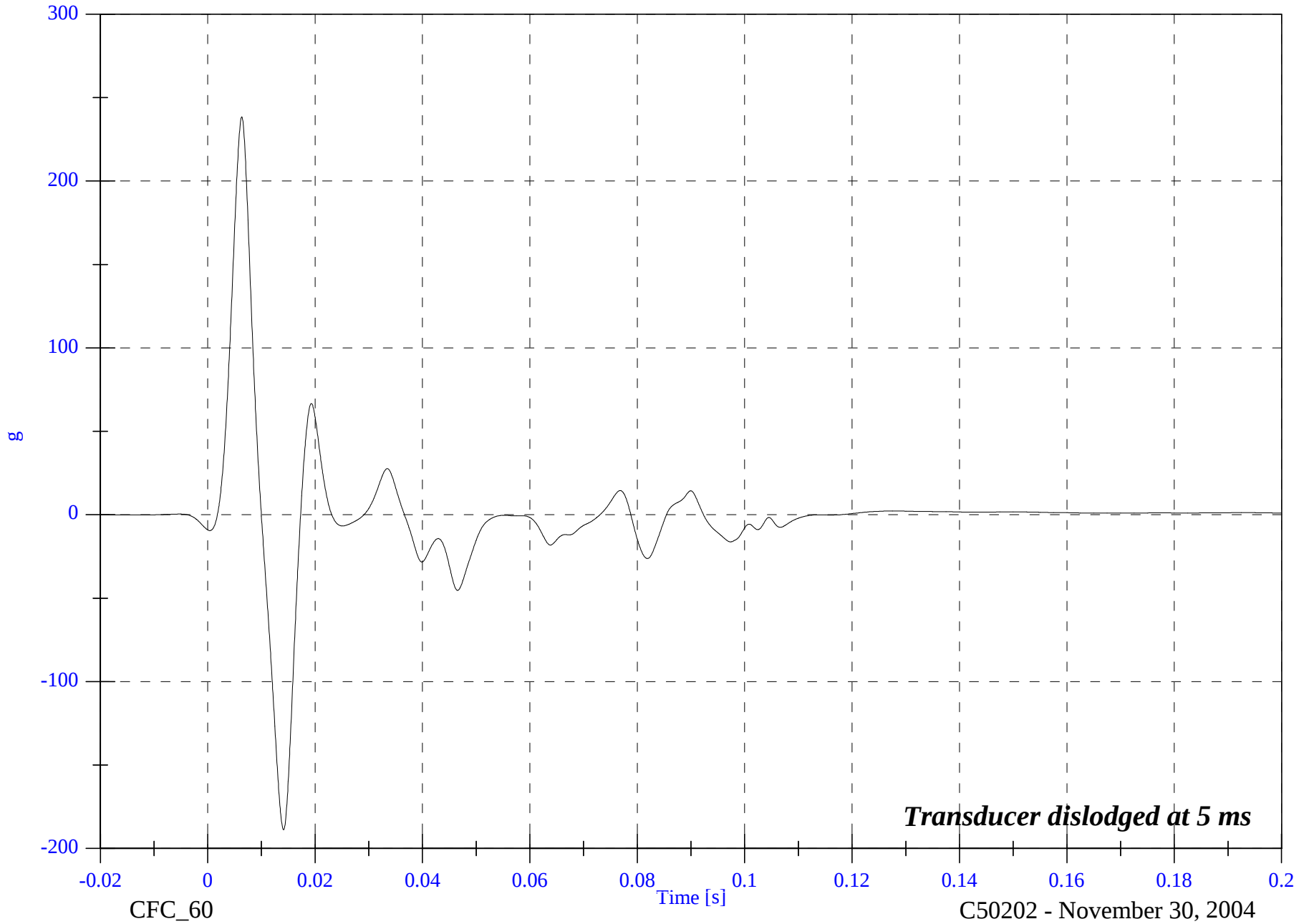
V2 A14 Left Lower A Post y

Max: 238.5 [g] at 0.006 [s]

Min: -188.8 [g] at 0.014 [s]

B-91

8675-F214-21

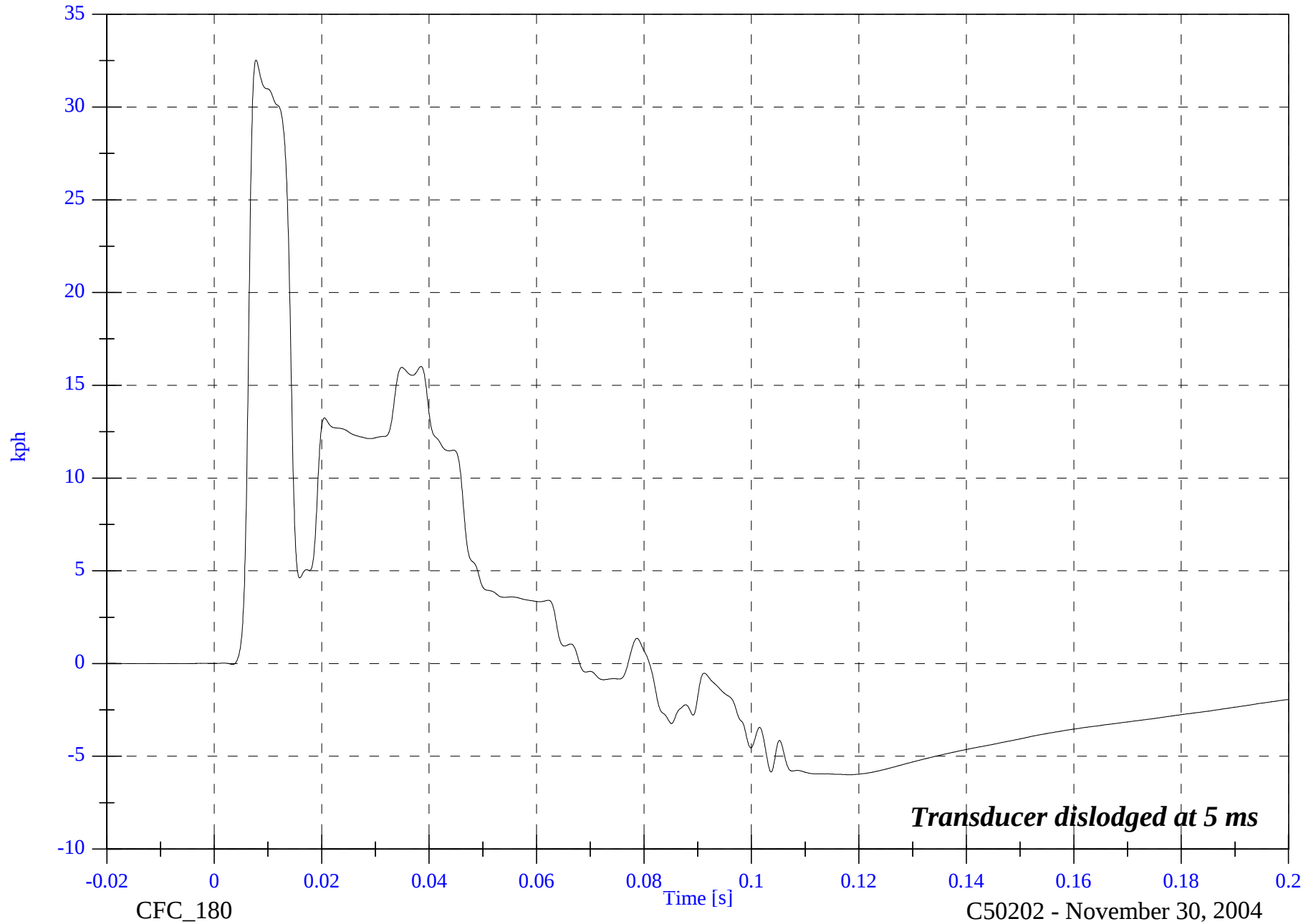


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A14 Left Lower A Post y Velocity

Max: 32.5 [kph] at 0.008 [s]

Min: -6.0 [kph] at 0.118 [s]



B-92

8675-F214-21

CFC_180

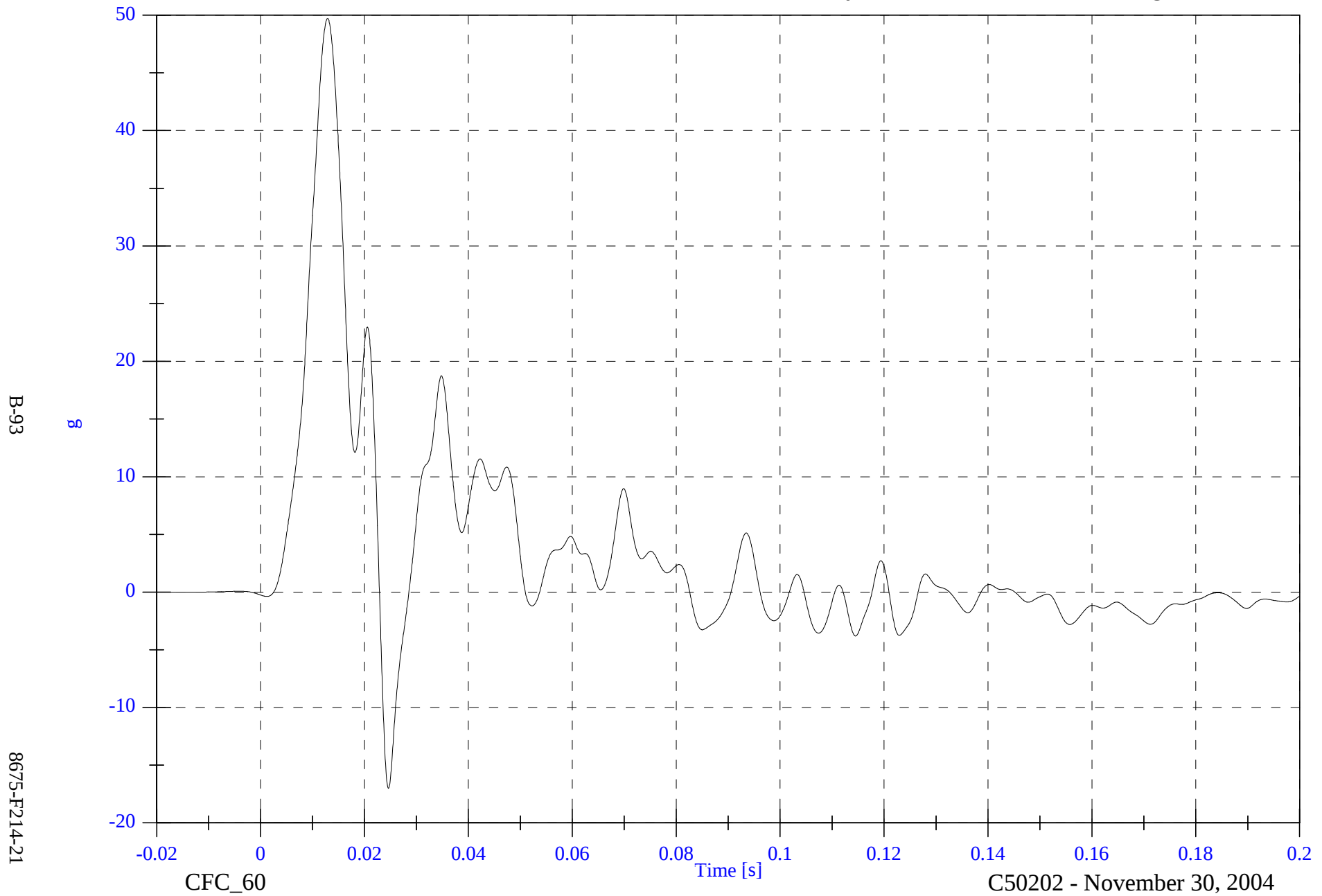
C50202 - November 30, 2004

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A15 Left Mid A Post y

Max: 49.7 [g] at 0.013 [s]

Min: -17.0 [g] at 0.025 [s]

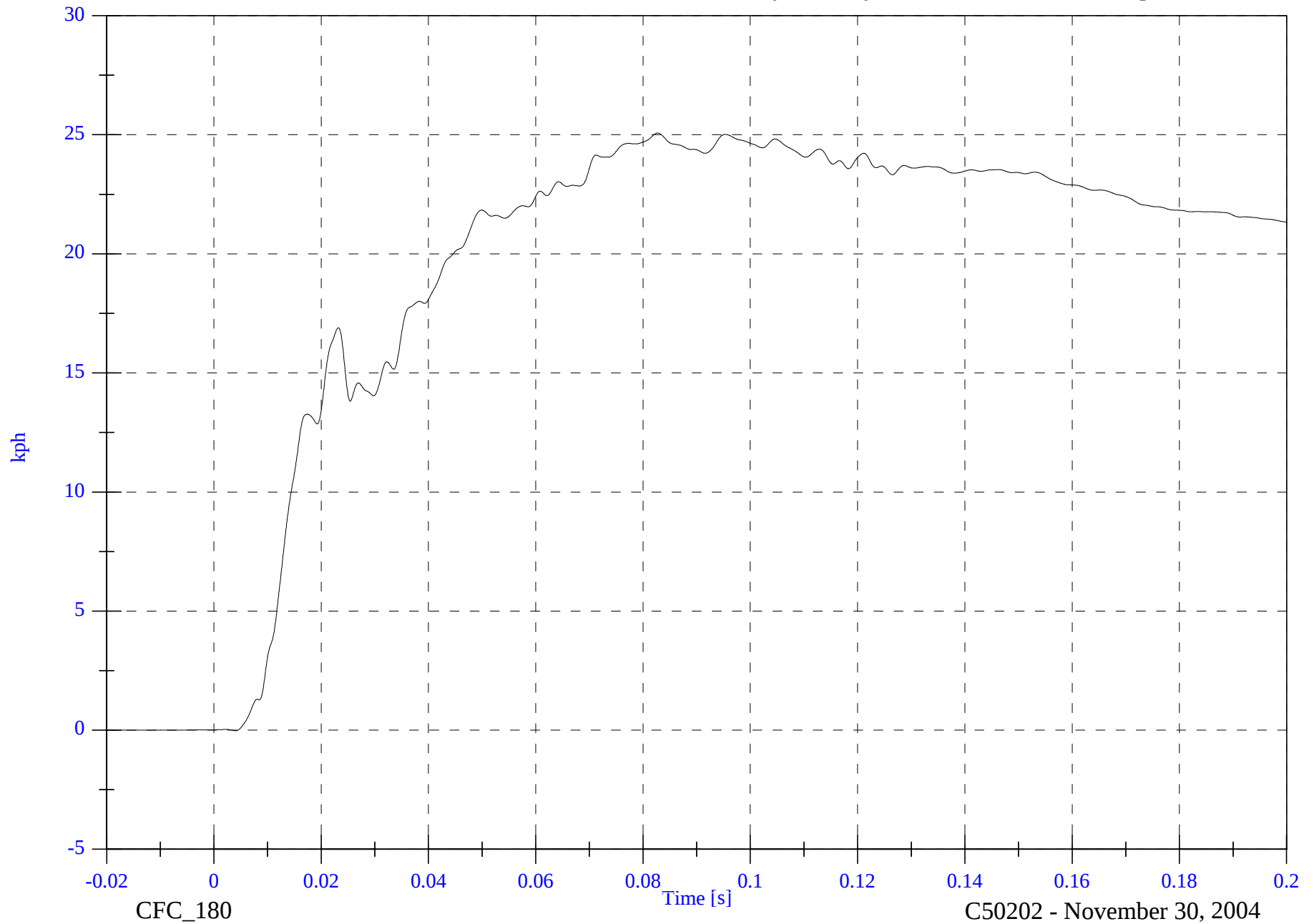


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A15 Left Mid A Post y Velocity

Max: 25.1 [kph] at 0.083 [s]

Min: -0.0 [kph] at 0.004 [s]



B-94

8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

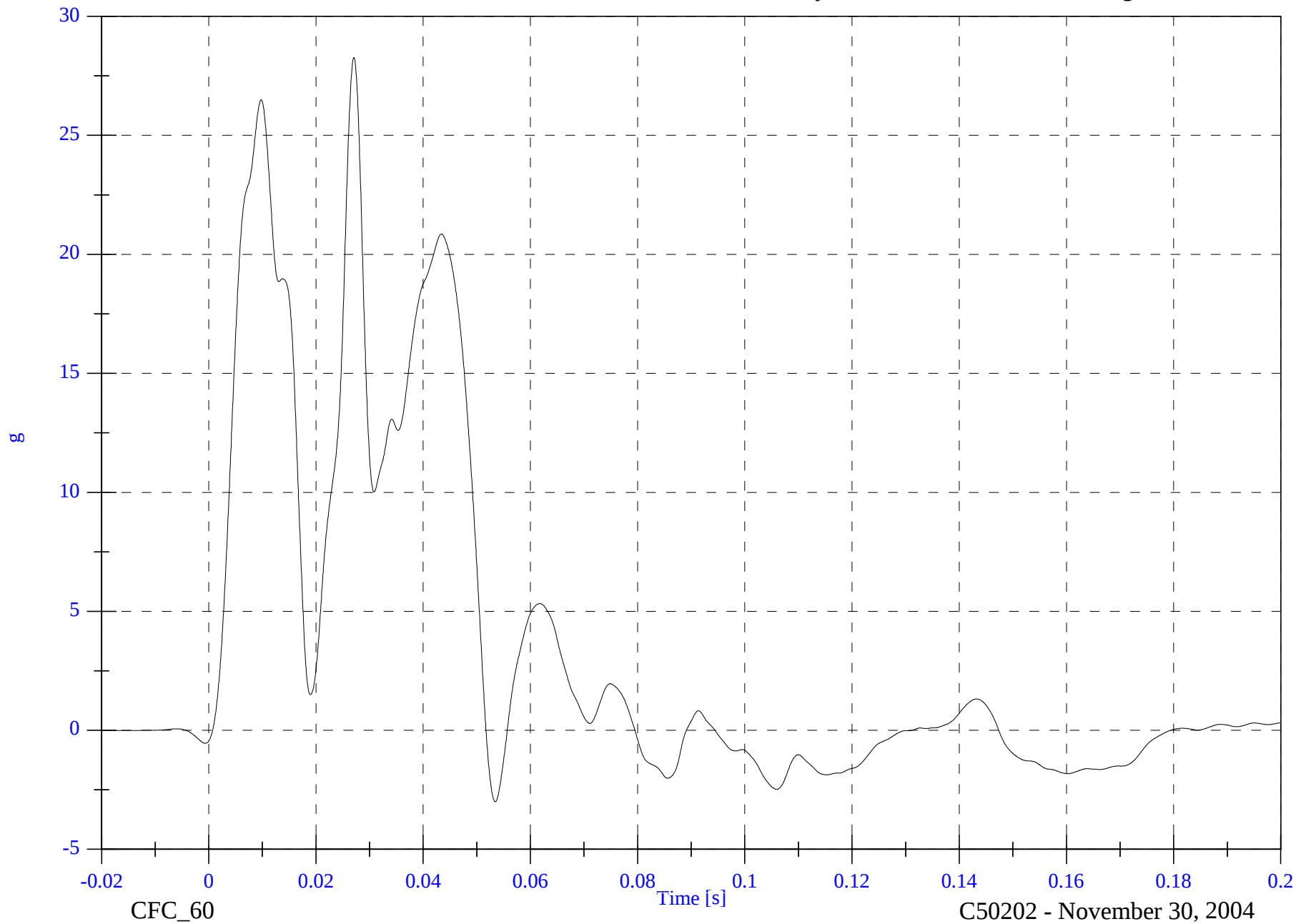
V2 A16 Front Seat Track y

Max: 28.3 [g] at 0.027 [s]

Min: -3.0 [g] at 0.053 [s]

B-95

8675-F214-21

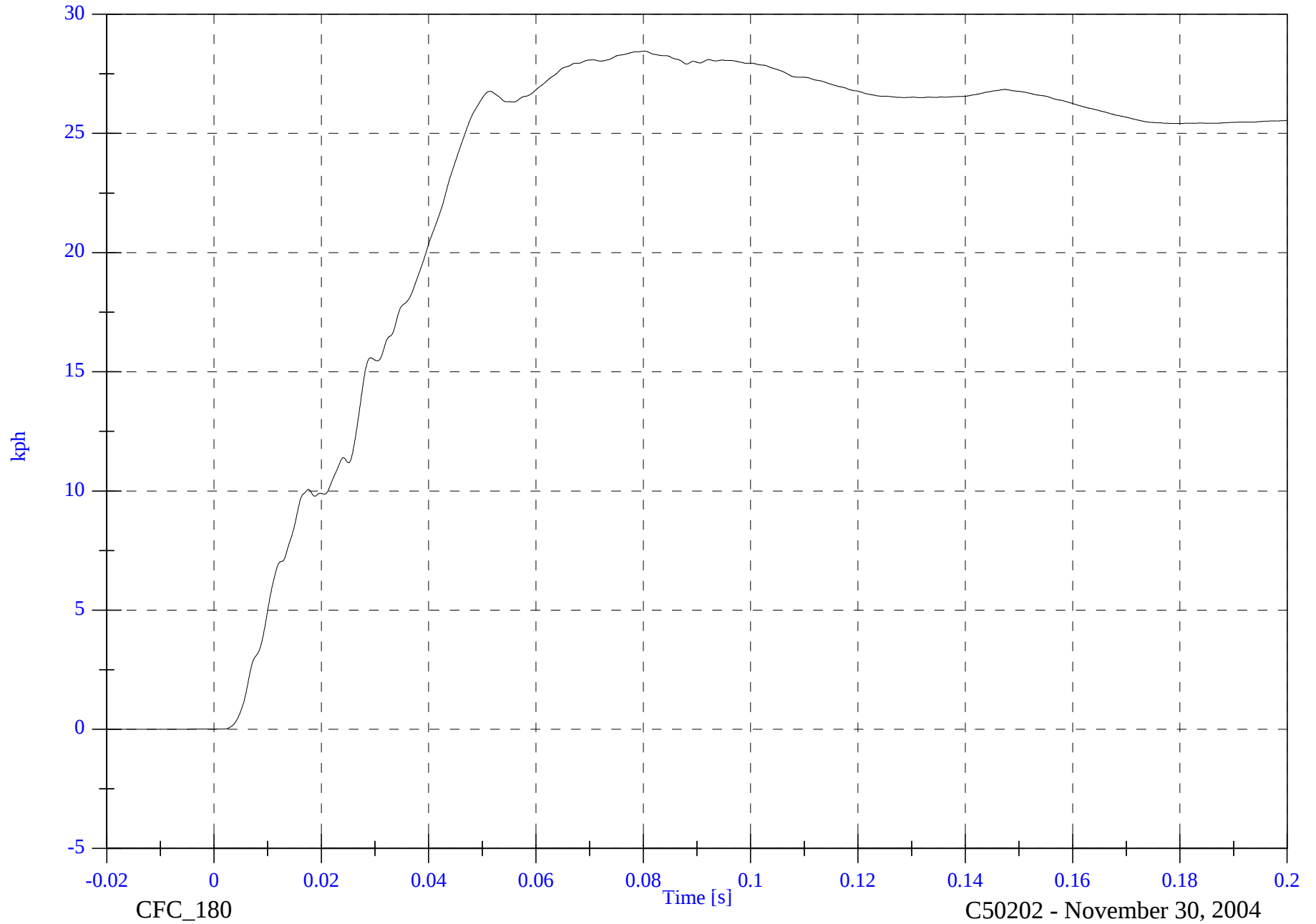


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A16 Front Seat Track y Velocity

Max: 28.4 [kph] at 0.080 [s]

Min: -0.0 [kph] at -0.008 [s]



B-96

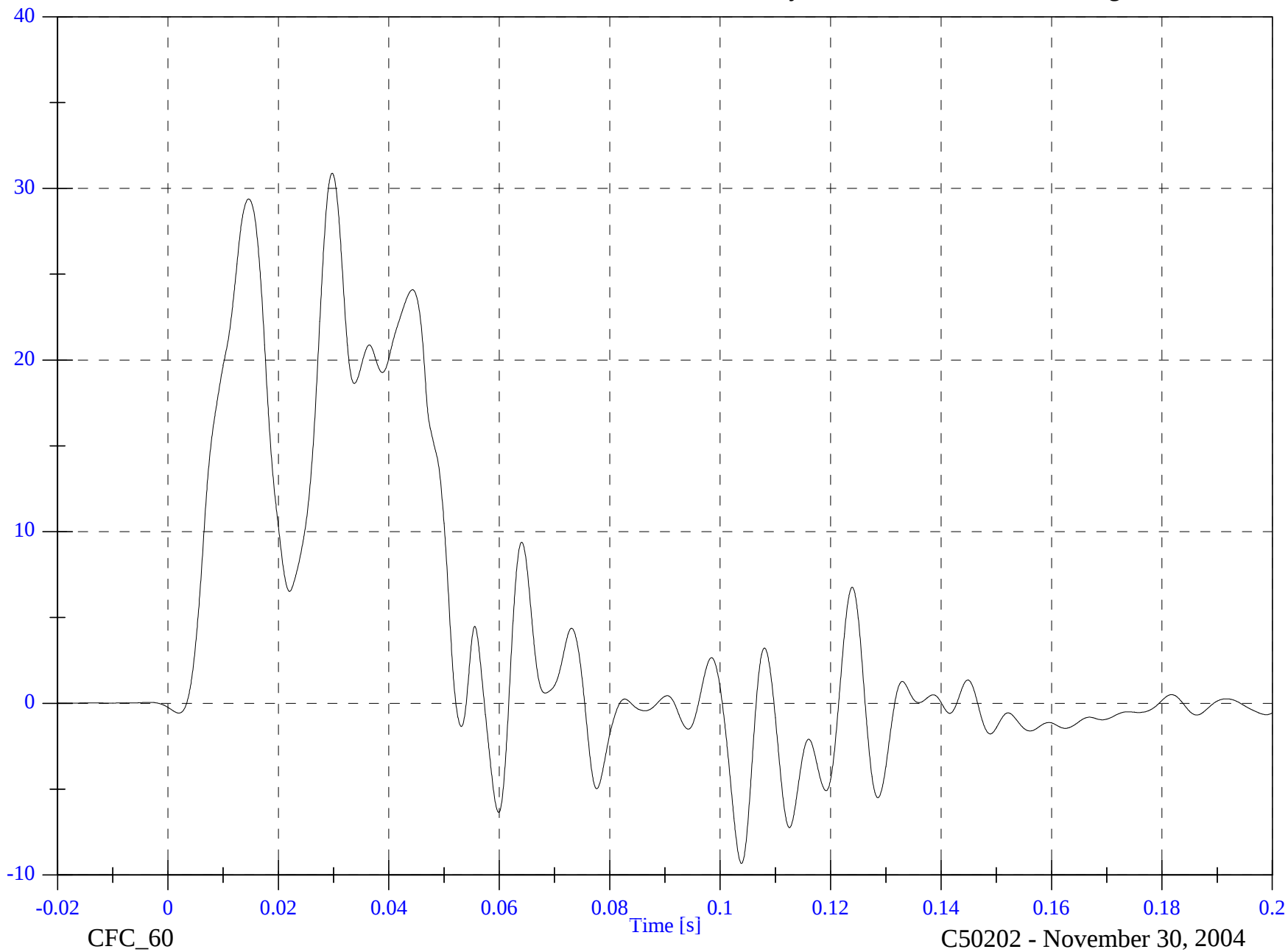
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A17 Rear Seat Track y

Max: 30.9 [g] at 0.030 [s]

Min: -9.3 [g] at 0.104 [s]



B-97

8675-F214-21

CFC_60

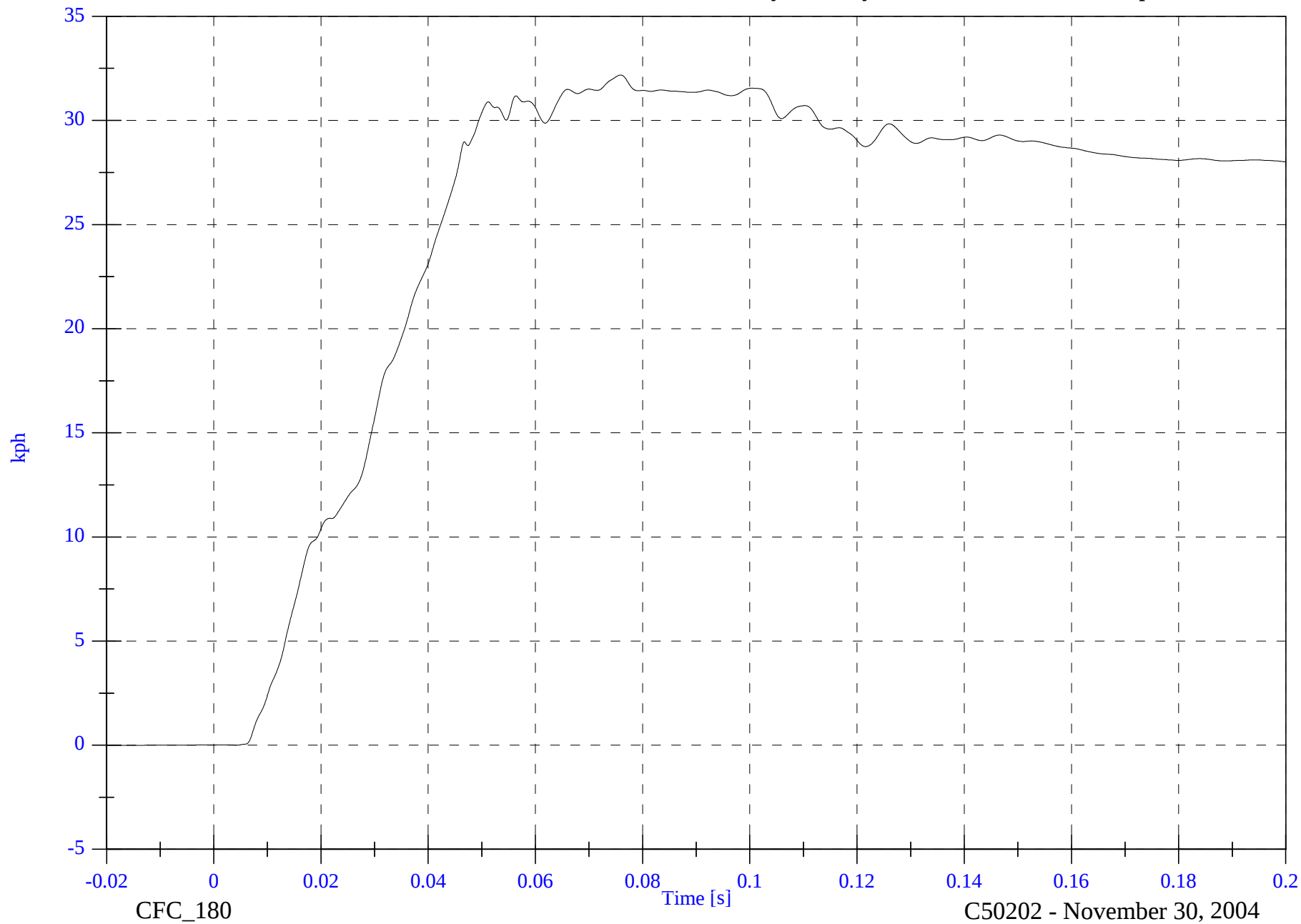
C50202 - November 30, 2004

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A17 Rear Seat Track y Velocity

Max: 32.2 [kph] at 0.076 [s]

Min: -0.0 [kph] at -0.020 [s]



B-98

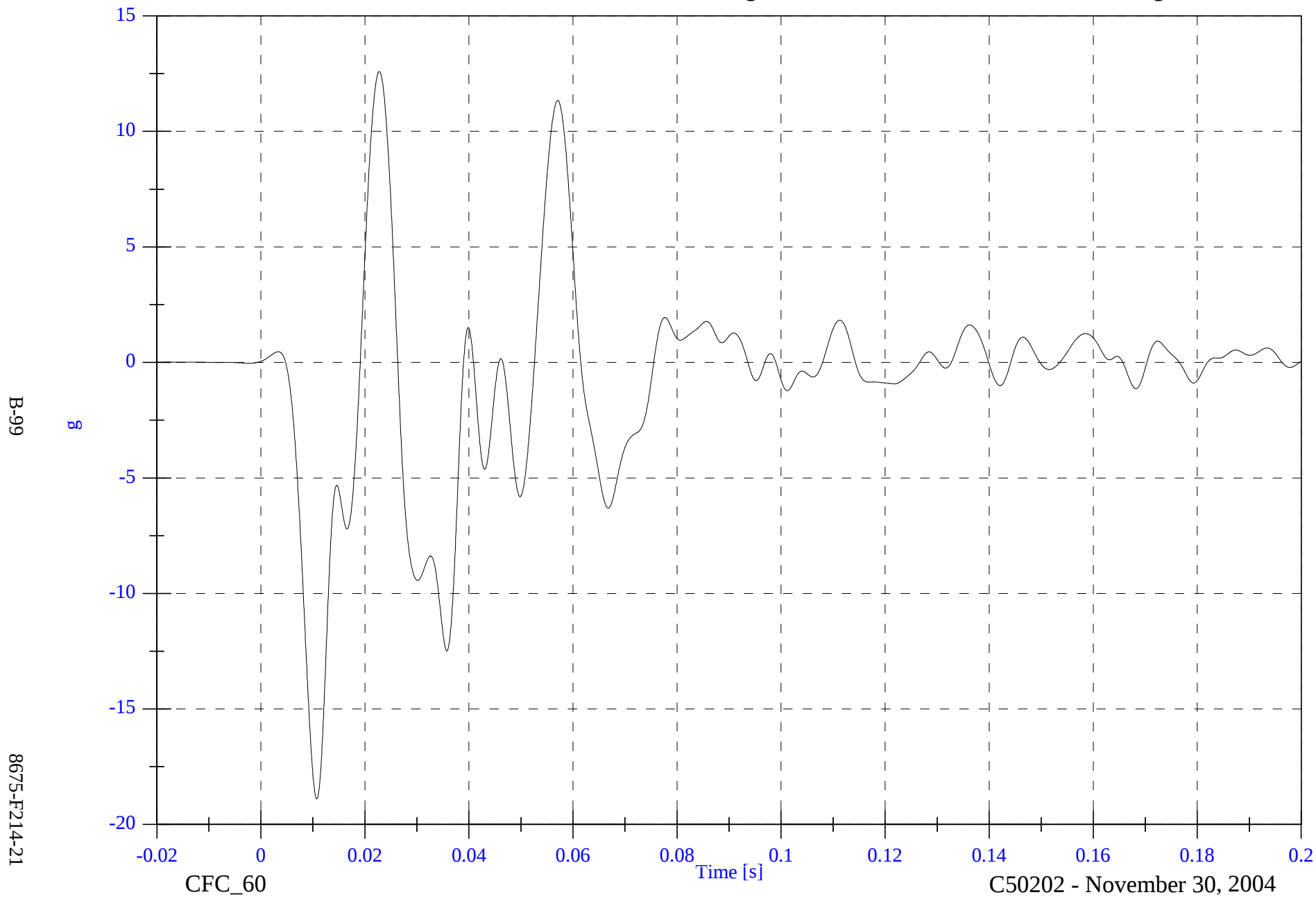
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A18 Target CG x

Max: 12.6 [g] at 0.023 [s]

Min: -18.9 [g] at 0.011 [s]

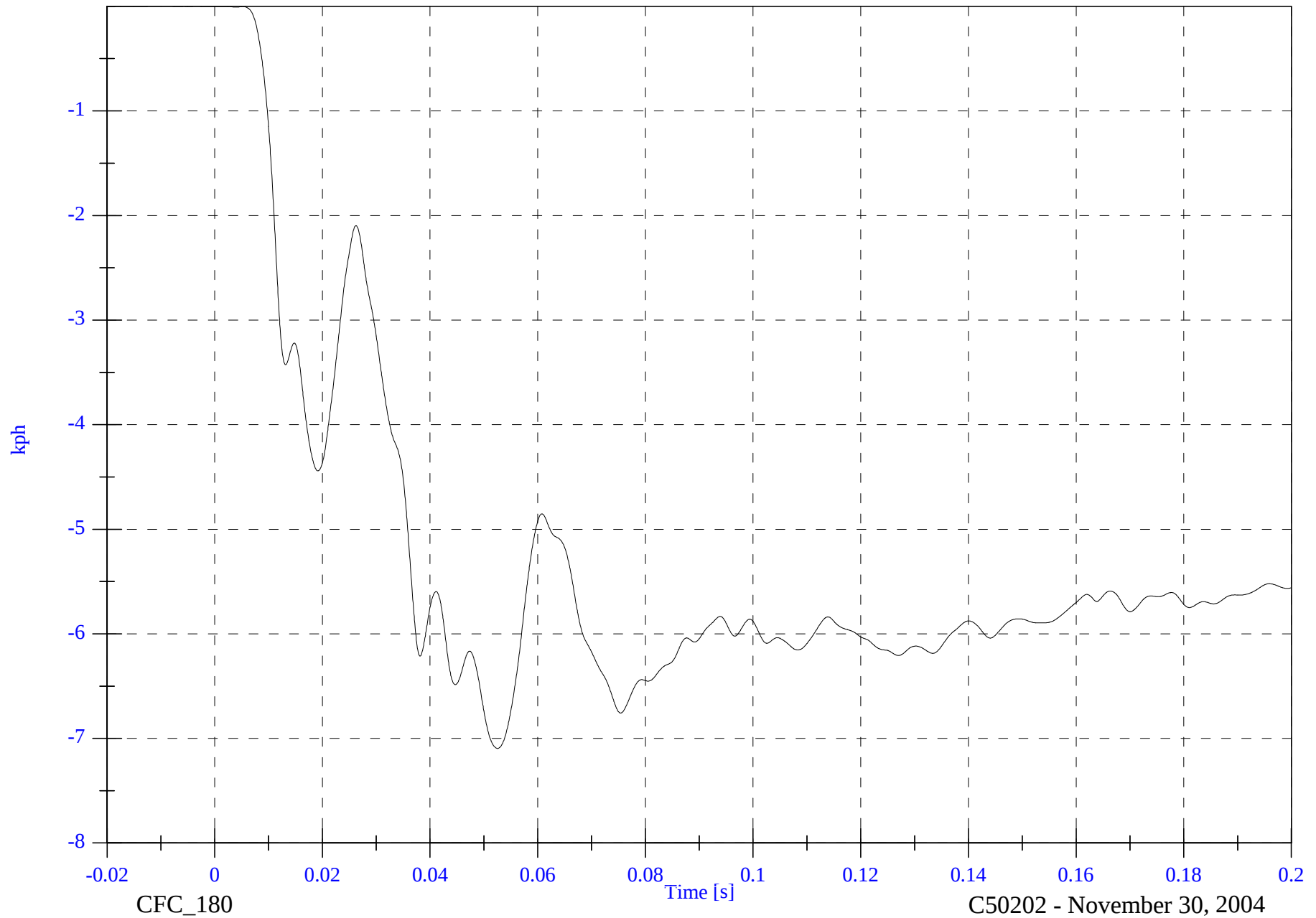


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A18 Target CG x Velocity

Max: -0.0 [kph] at -0.010 [s]

Min: -7.1 [kph] at 0.053 [s]



B-100

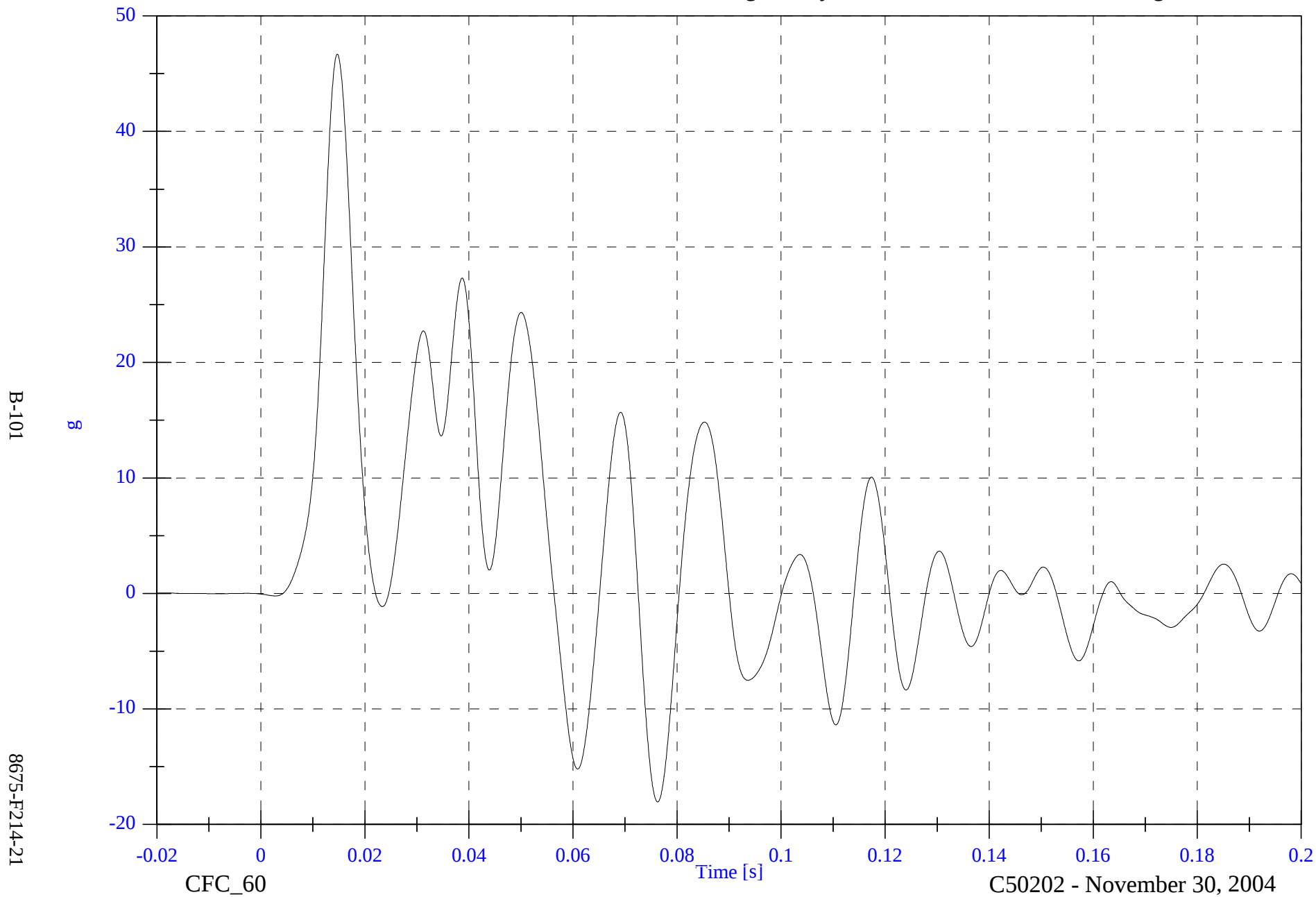
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A18 Target CG y

Max: 46.7 [g] at 0.015 [s]

Min: -18.1 [g] at 0.076 [s]

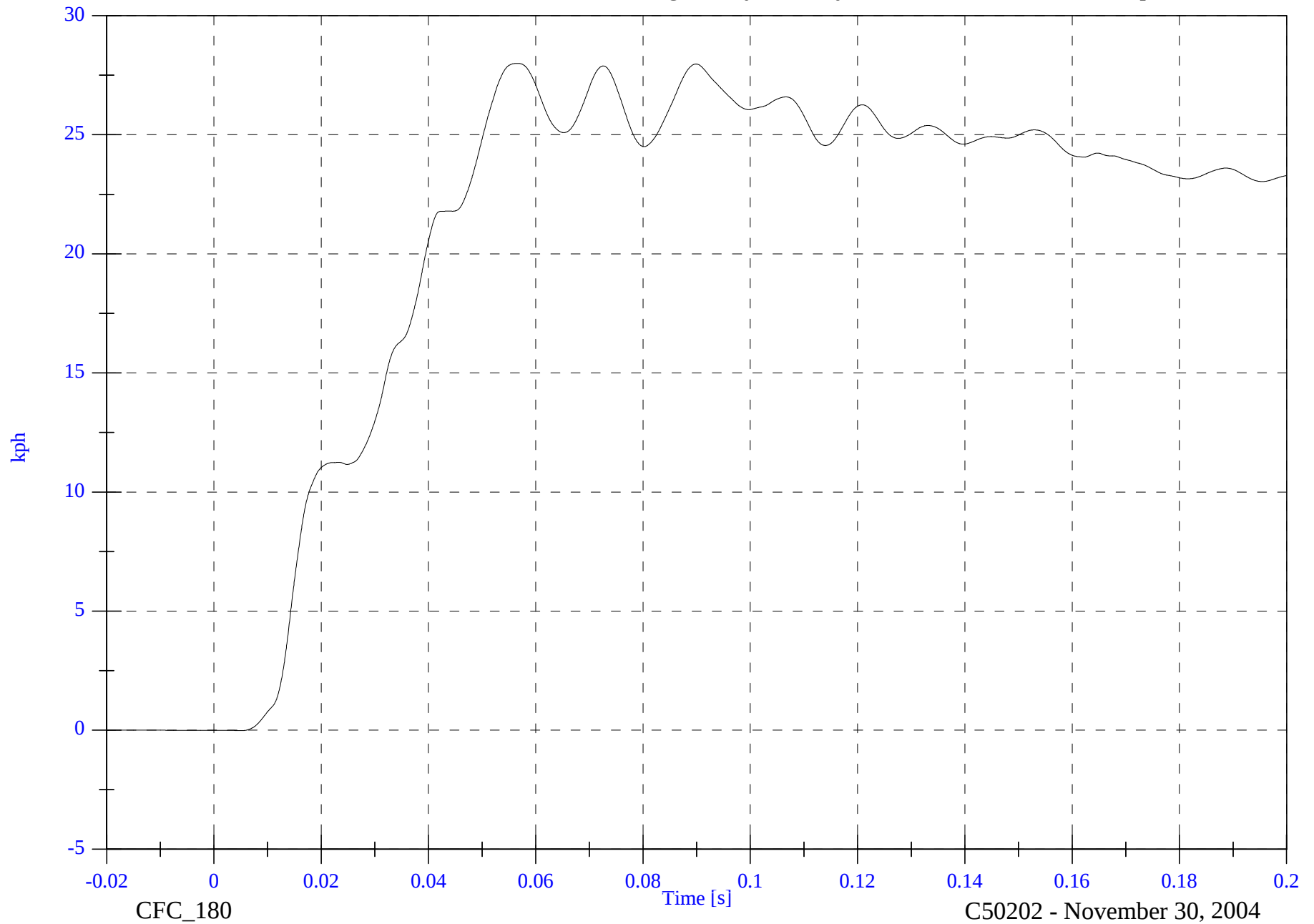


2005 214 Inducant Test 2 - 2005 Ford Mustang

V2 A18 Target CG y Velocity

Max: 28.0 [kph] at 0.057 [s]

Min: -0.0 [kph] at 0.005 [s]



B-102

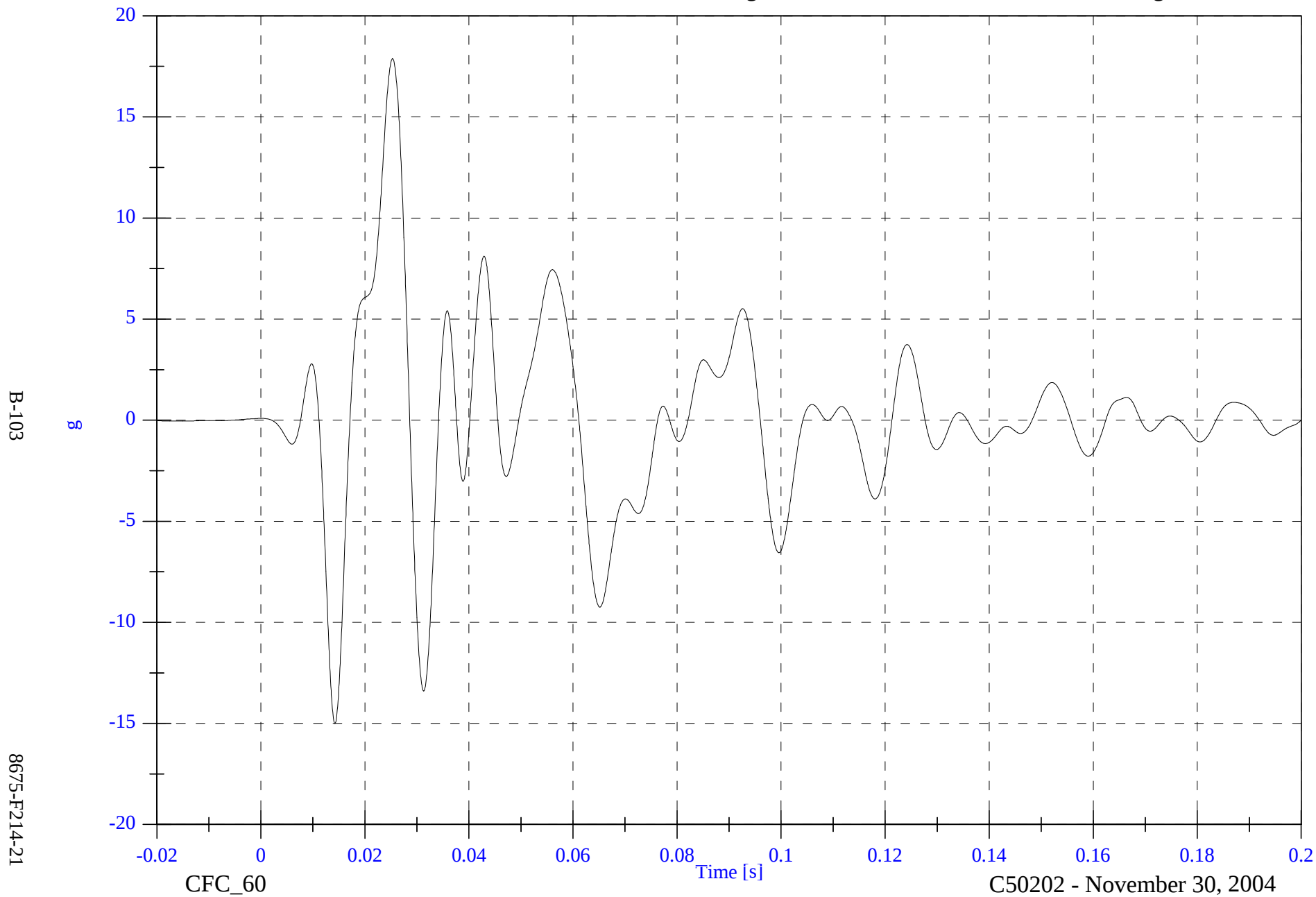
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2 A18 Target CG z

Max: 17.9 [g] at 0.025 [s]

Min: -15.0 [g] at 0.014 [s]

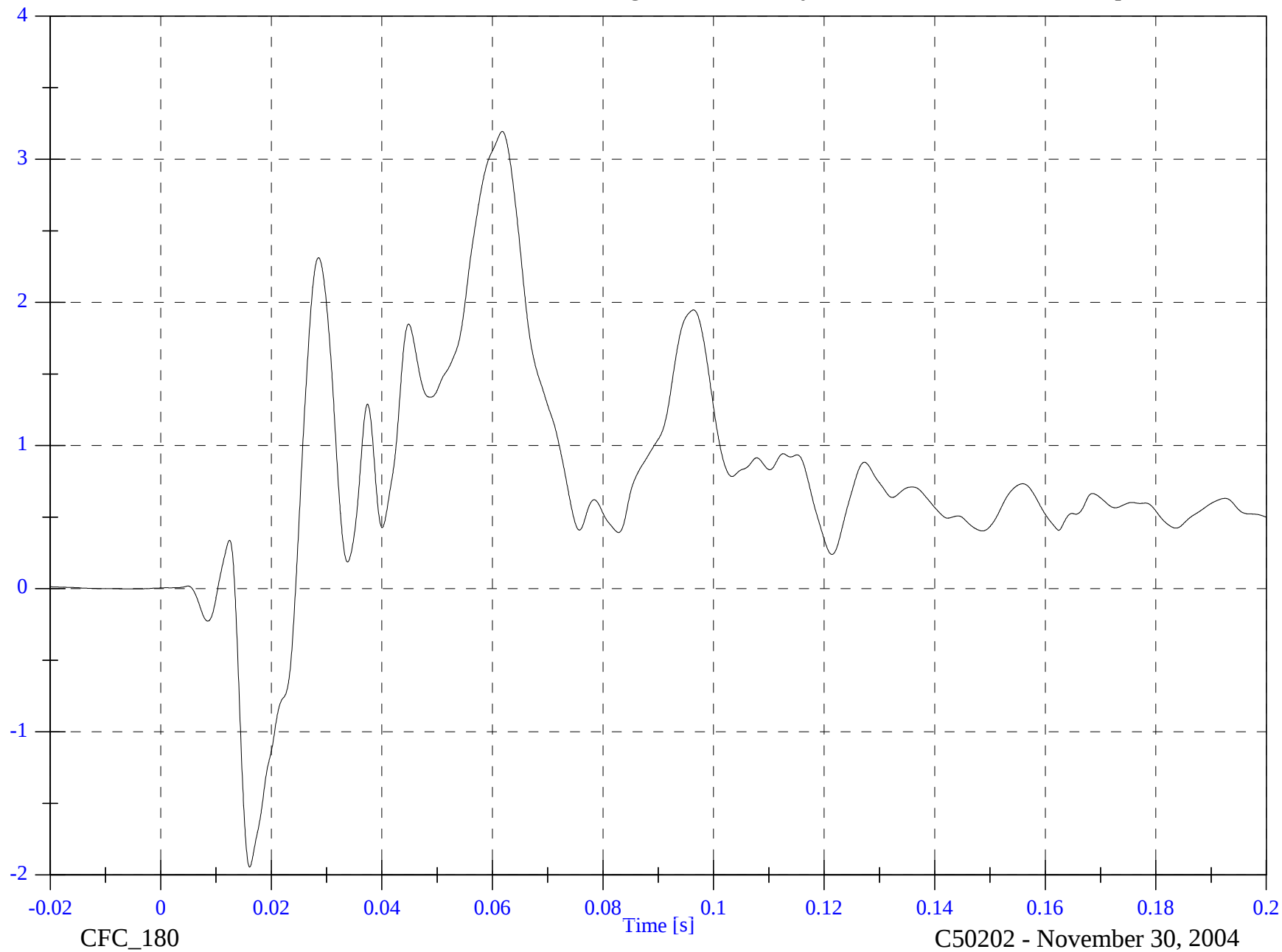


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A18 Target CG z Velocity

Max: 3.2 [kph] at 0.062 [s]

Min: -1.9 [kph] at 0.016 [s]



B-104

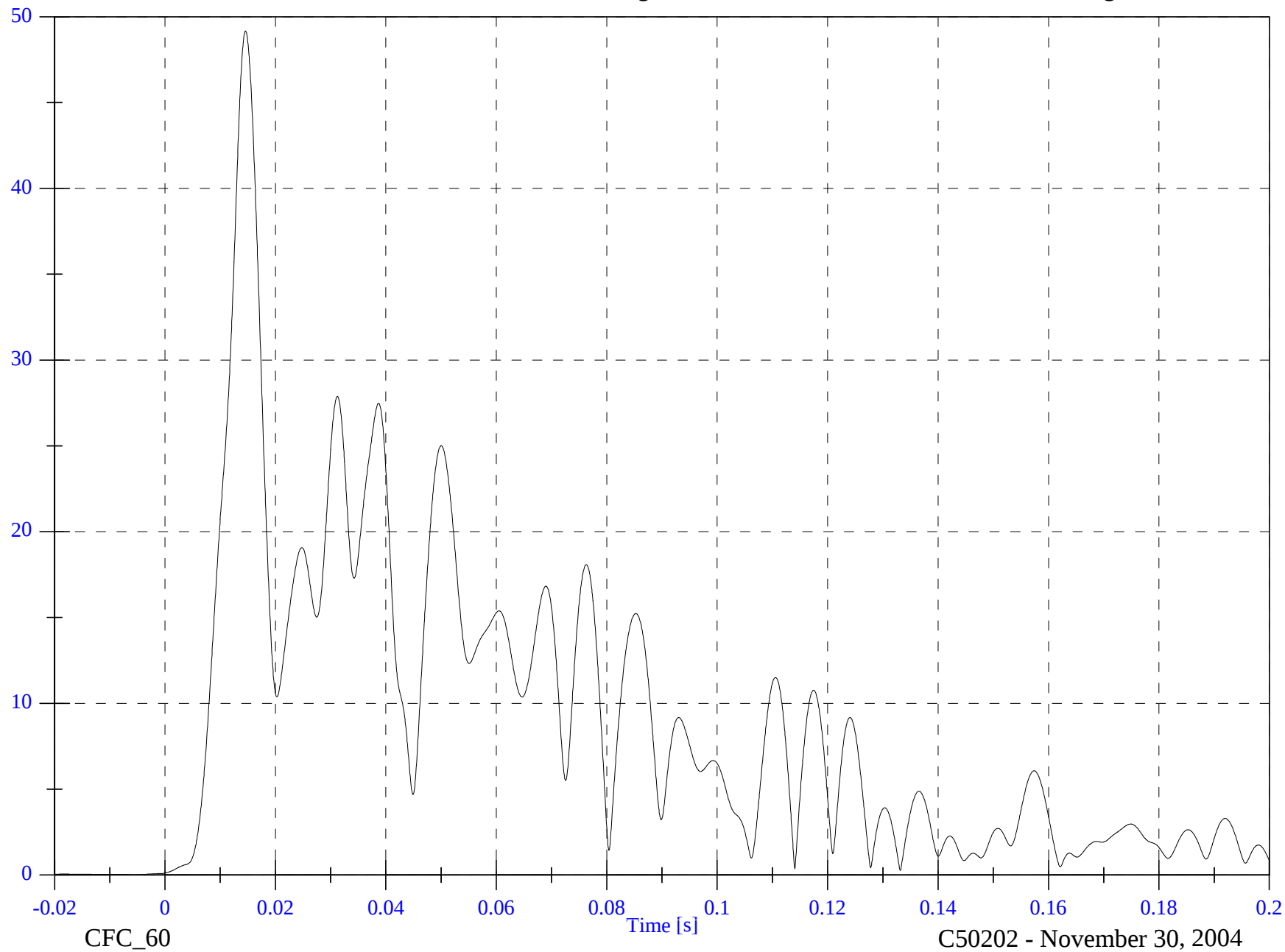
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2 A18 Target CG Resultant

Max: 49.2 [g] at 0.015 [s]

Min: 0.0 [g] at -0.005 [s]



B-105

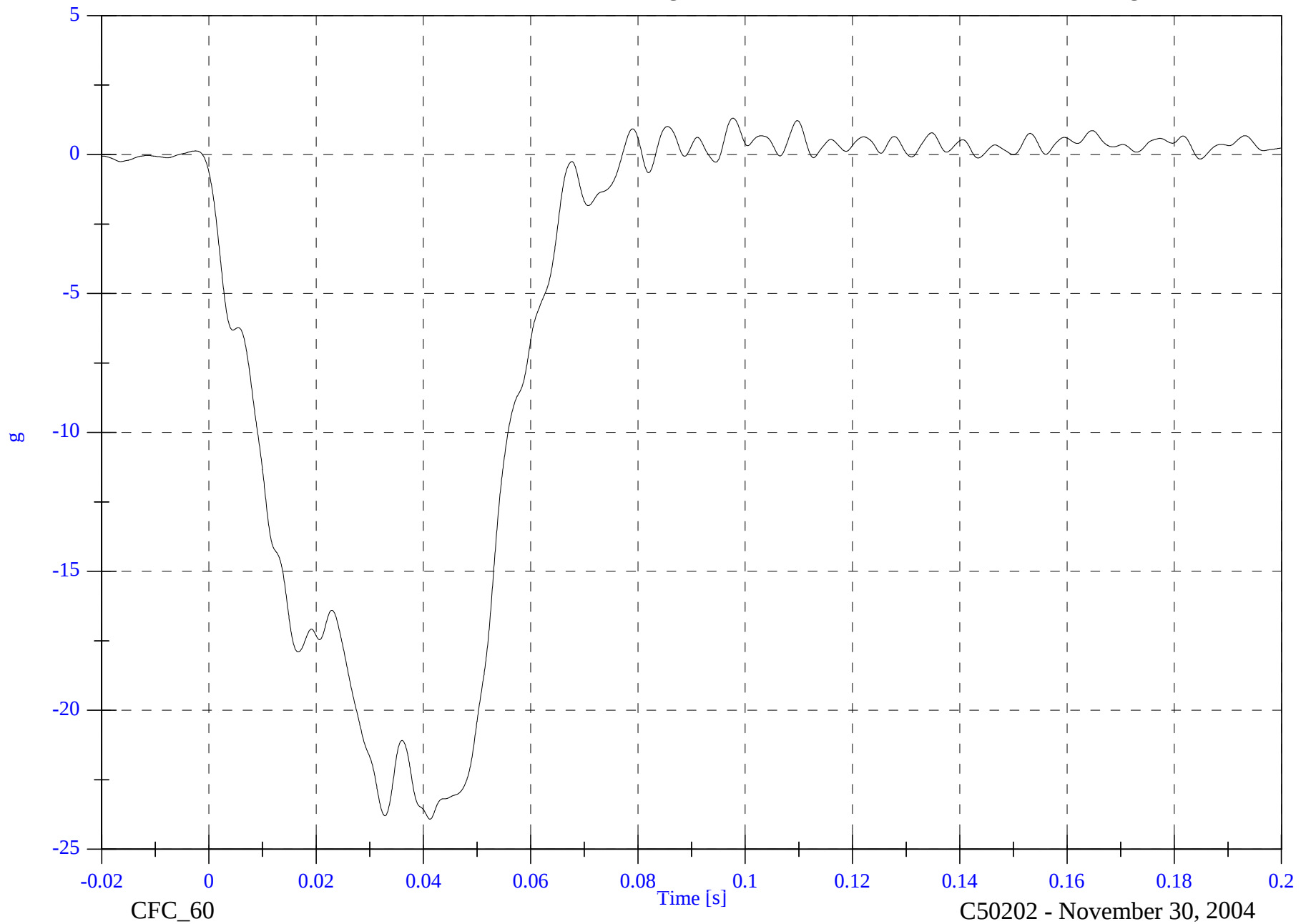
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V1 Moving Barrier CG X

Max: 1.3 [g] at 0.098 [s]

Min: -23.9 [g] at 0.041 [s]



B-106

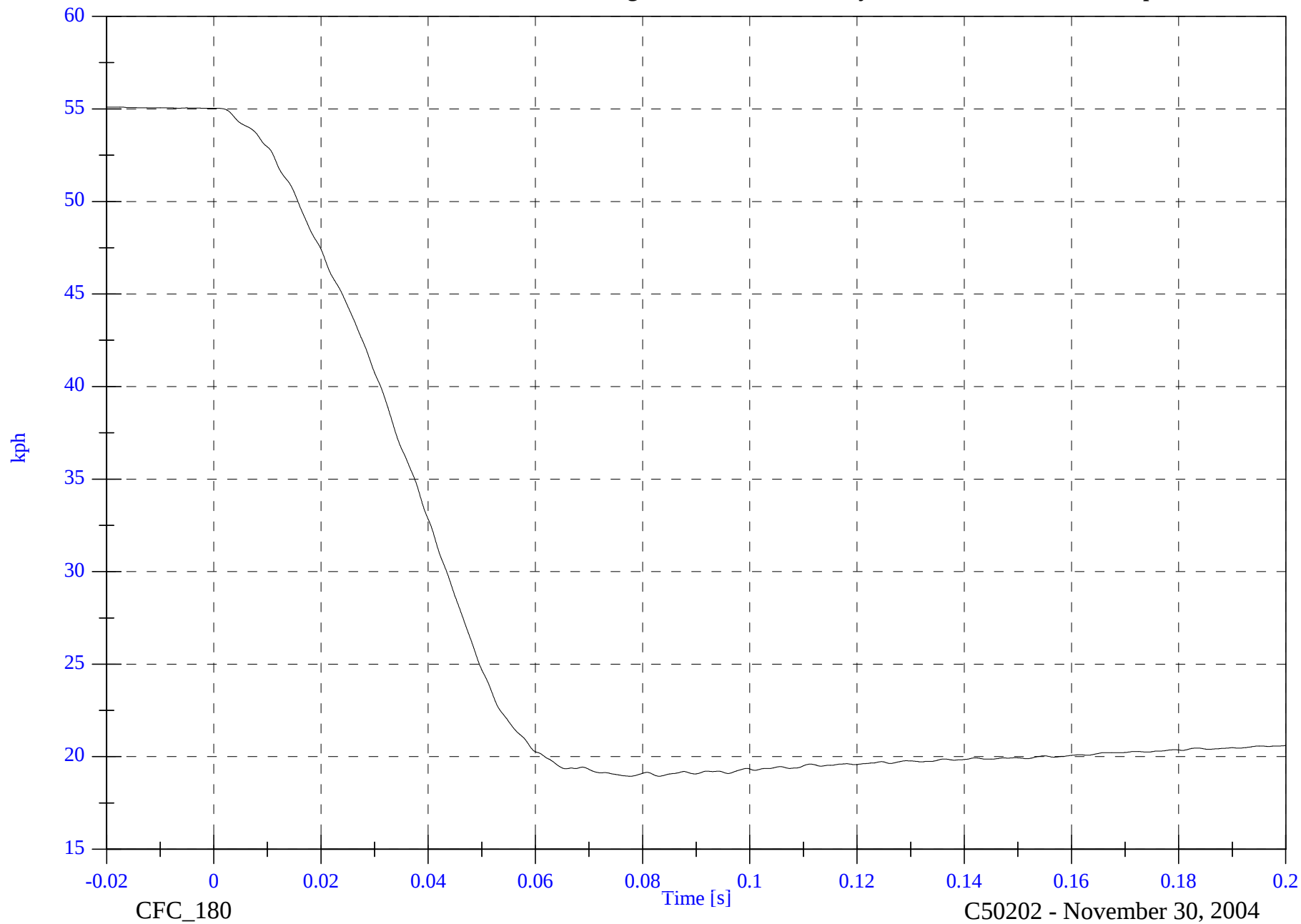
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V1 Moving Barrier CG X Velocity

Max: 55.1 [kph] at -0.018 [s]

Min: 18.9 [kph] at 0.083 [s]



B-107

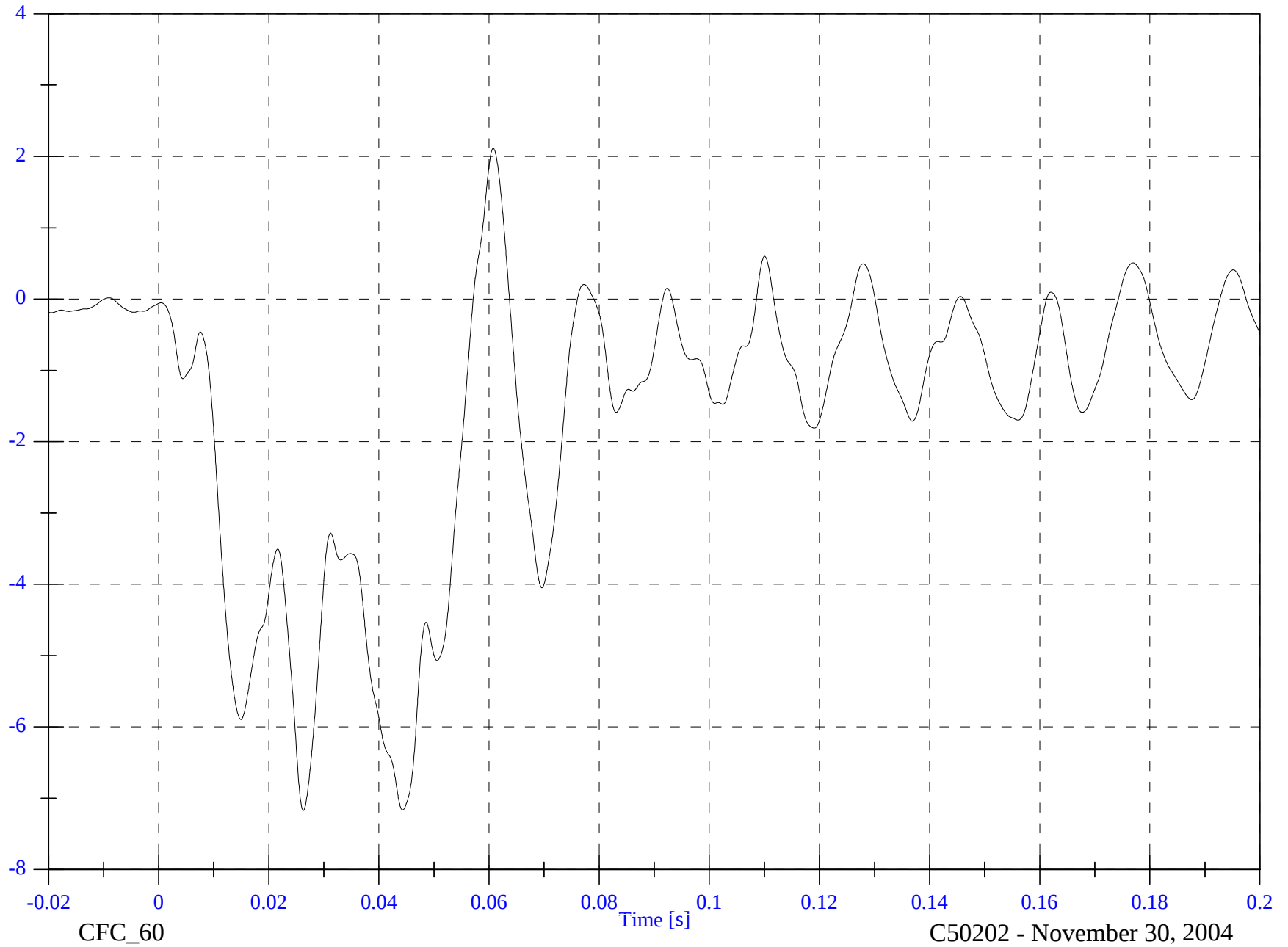
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V1 Moving Barrier CG Y

Max: 2.1 [g] at 0.061 [s]

Min: -7.2 [g] at 0.026 [s]



B-108

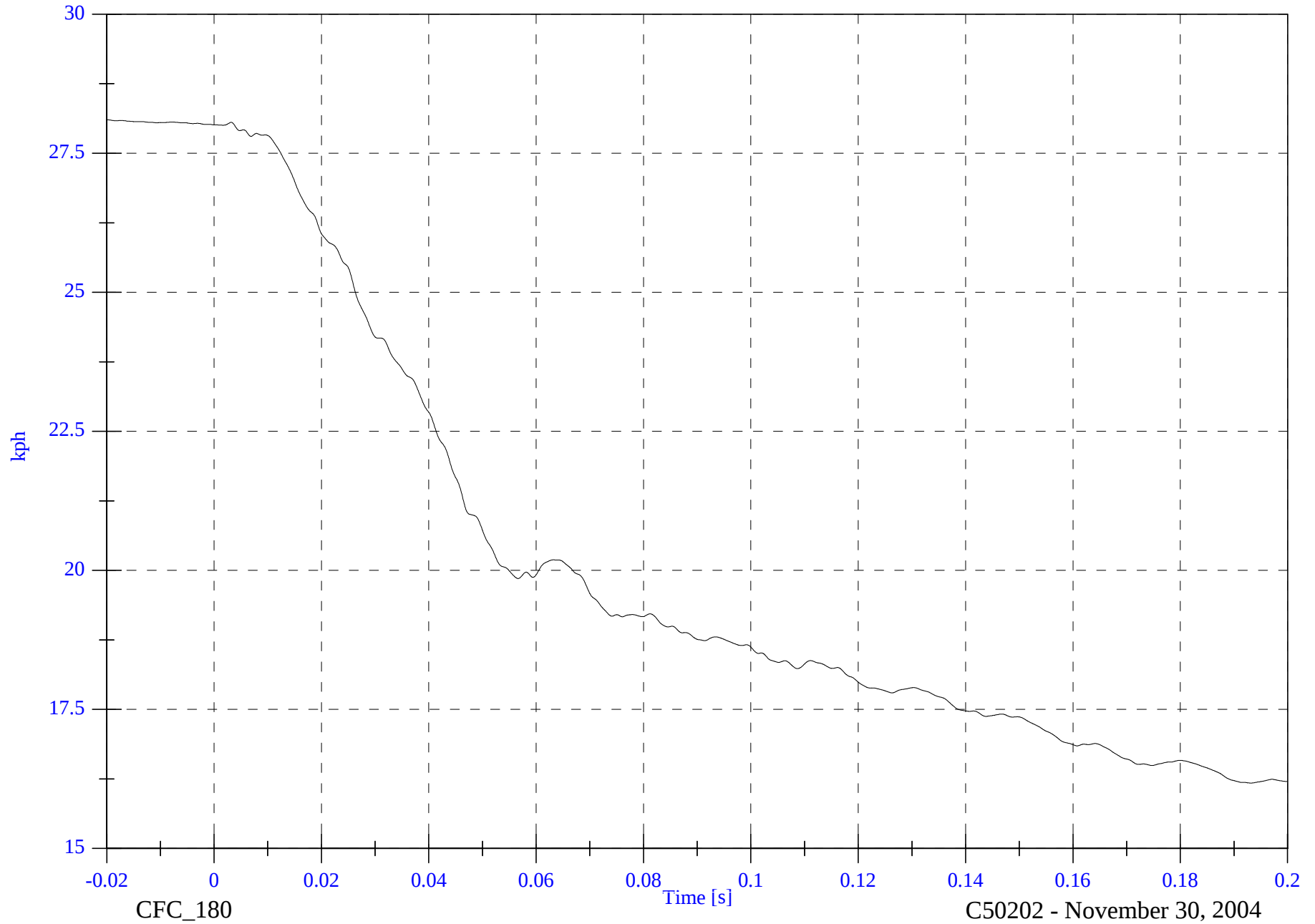
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V1 Moving Barrier CG Y Velocity

Max: 28.1 [kph] at -0.020 [s]

Min: 16.2 [kph] at 0.193 [s]



B-109

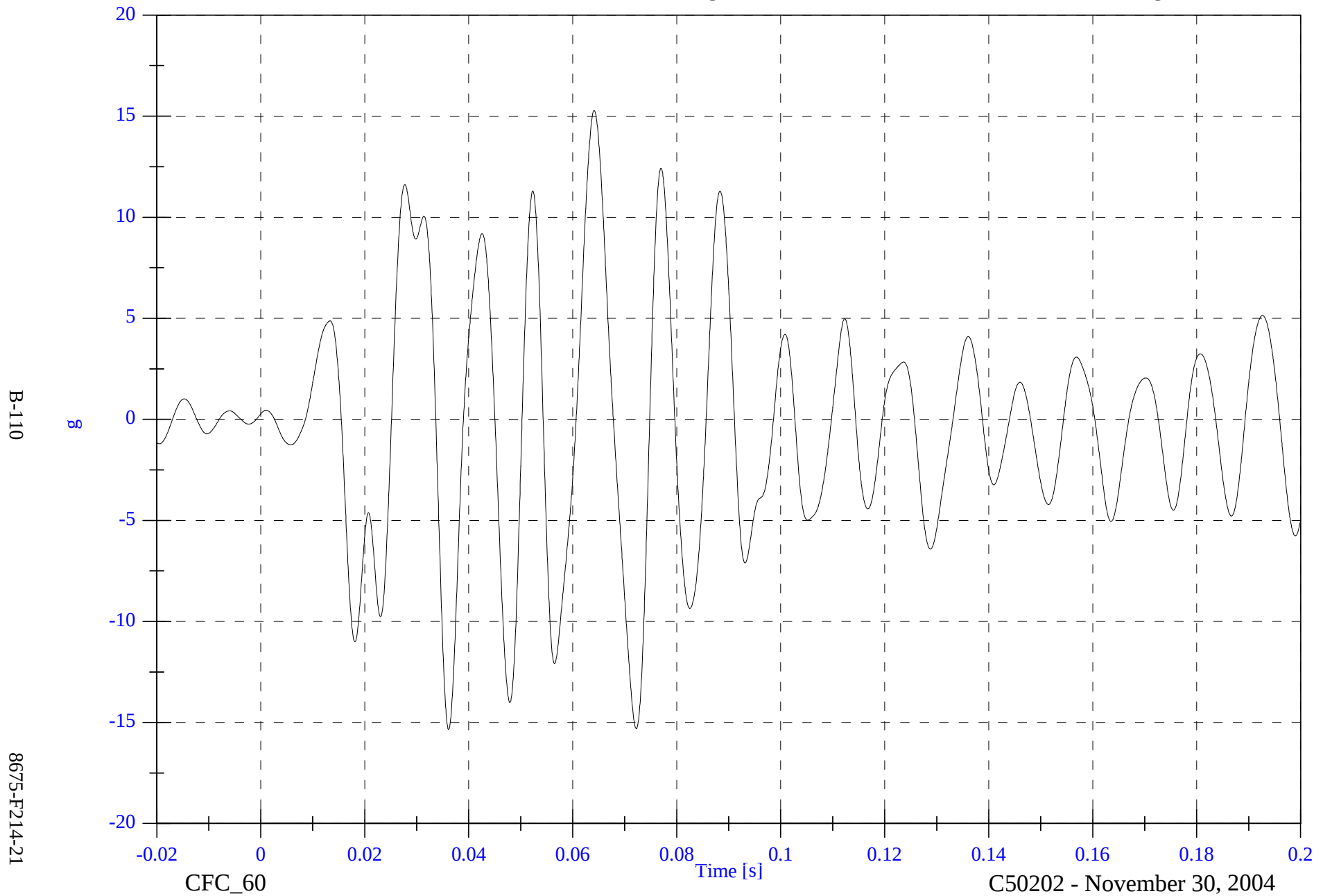
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V1 Moving Barrier CG Z

Max: 15.3 [g] at 0.064 [s]

Min: -15.3 [g] at 0.036 [s]

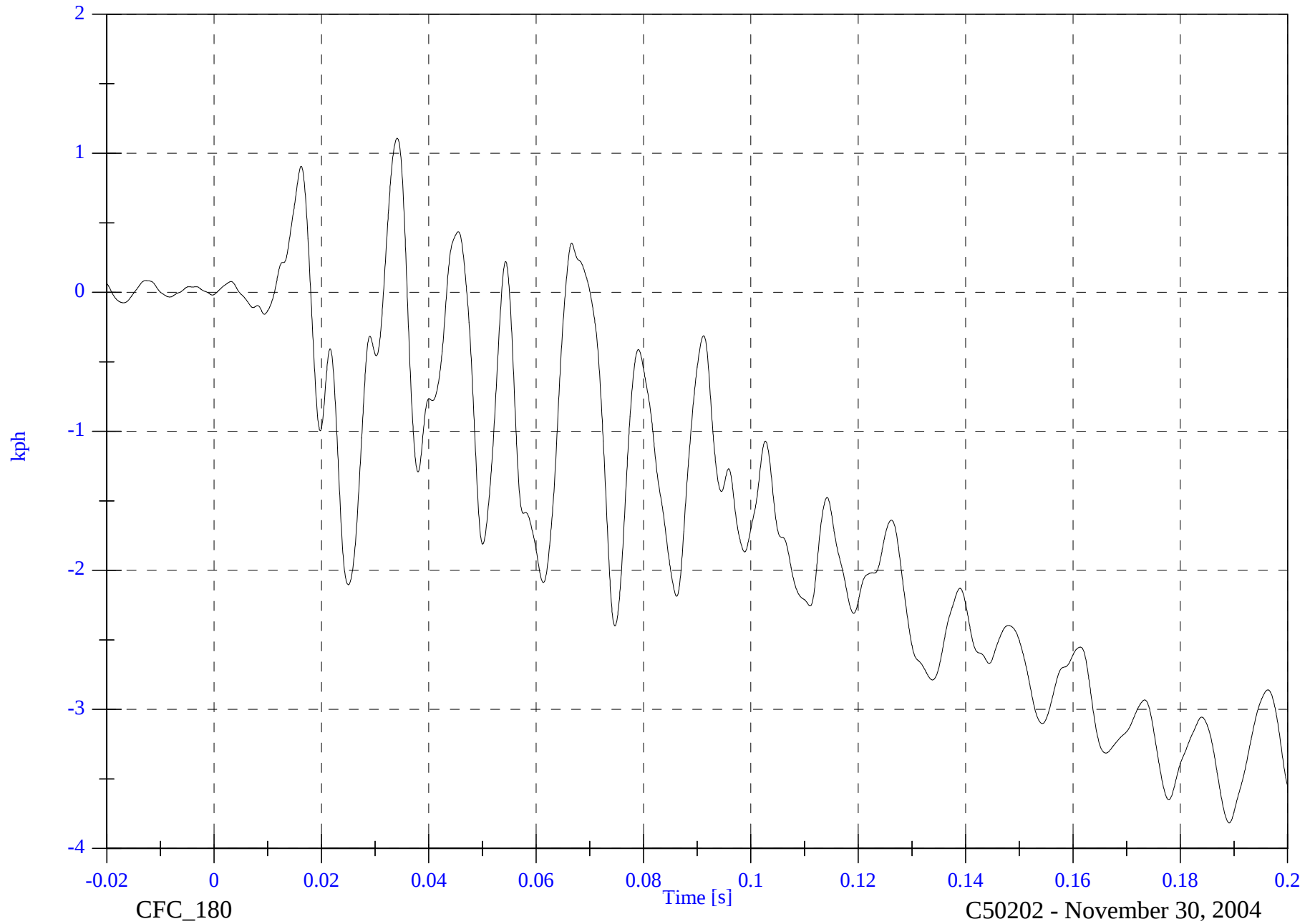


2005 214 Indicant Test 2 - 2005 Ford Mustang

V1 Moving Barrier CG Z Velocity

Max: 1.1 [kph] at 0.034 [s]

Min: -3.8 [kph] at 0.189 [s]



B-111

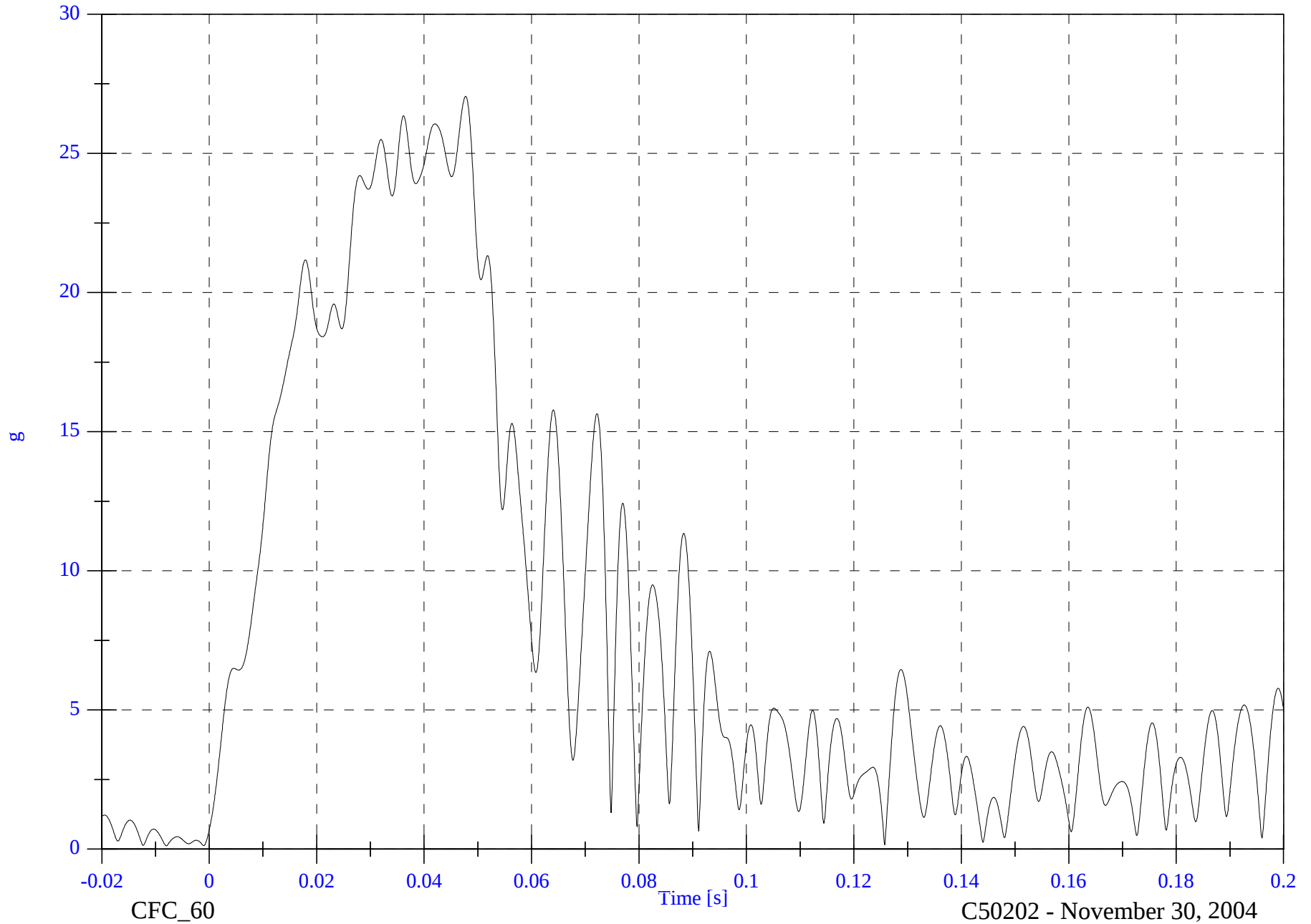
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V1 Moving Barrier CG Resultant

Max: 27.0 [g] at 0.048 [s]

Min: 0.1 [g] at -0.008 [s]



B-112

8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V1 Moving Barrier Left Rail X

Max: 2.3 [g] at 0.091 [s]

Min: -26.8 [g] at 0.044 [s]

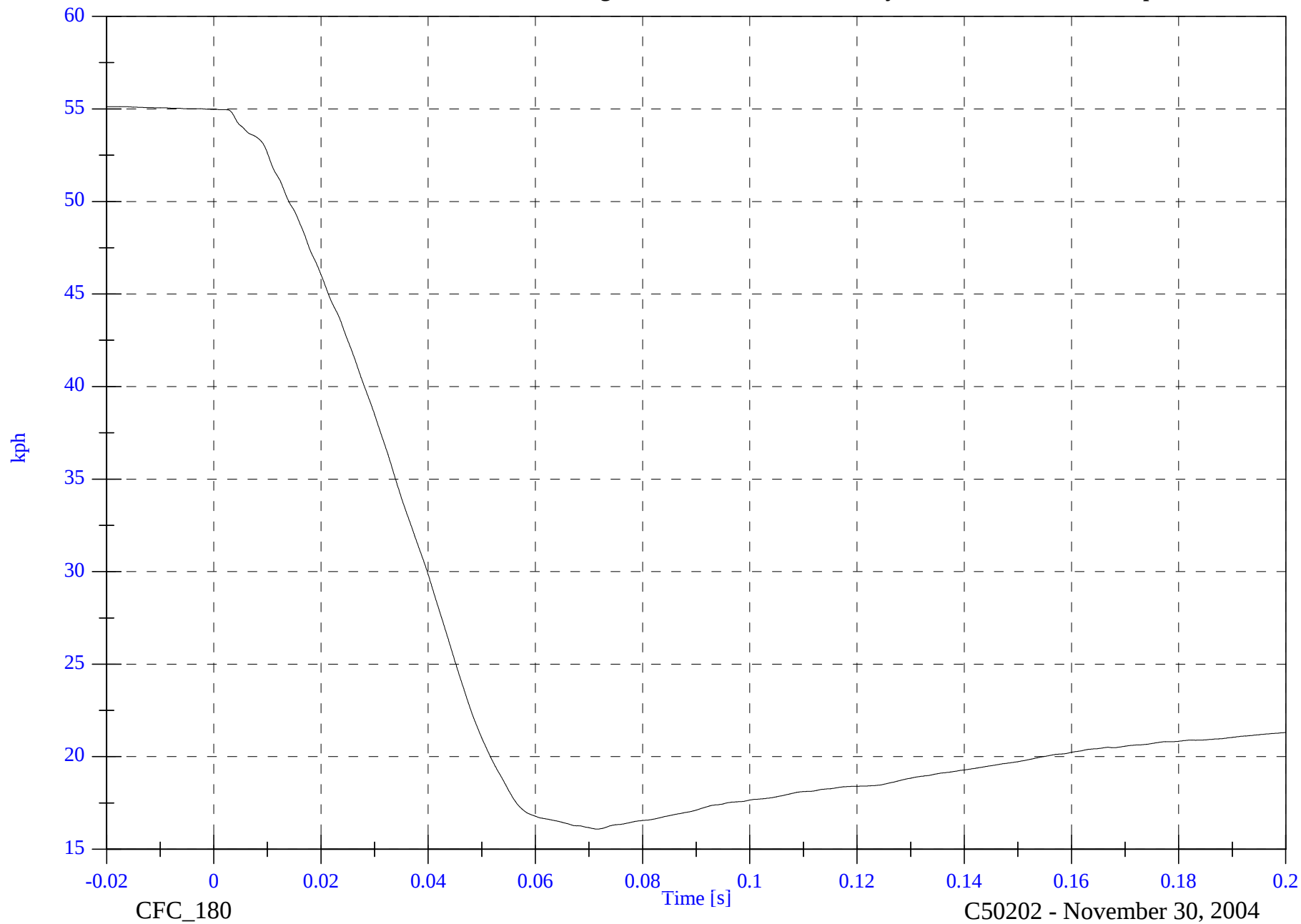


2005 214 Inducant Test 2 - 2005 Ford Mustang

V1 Moving Barrier Left Rail X Velocity

Max: 55.1 [kph] at -0.019 [s]

Min: 16.1 [kph] at 0.071 [s]



B-114

8675-F214-21

CFC_180

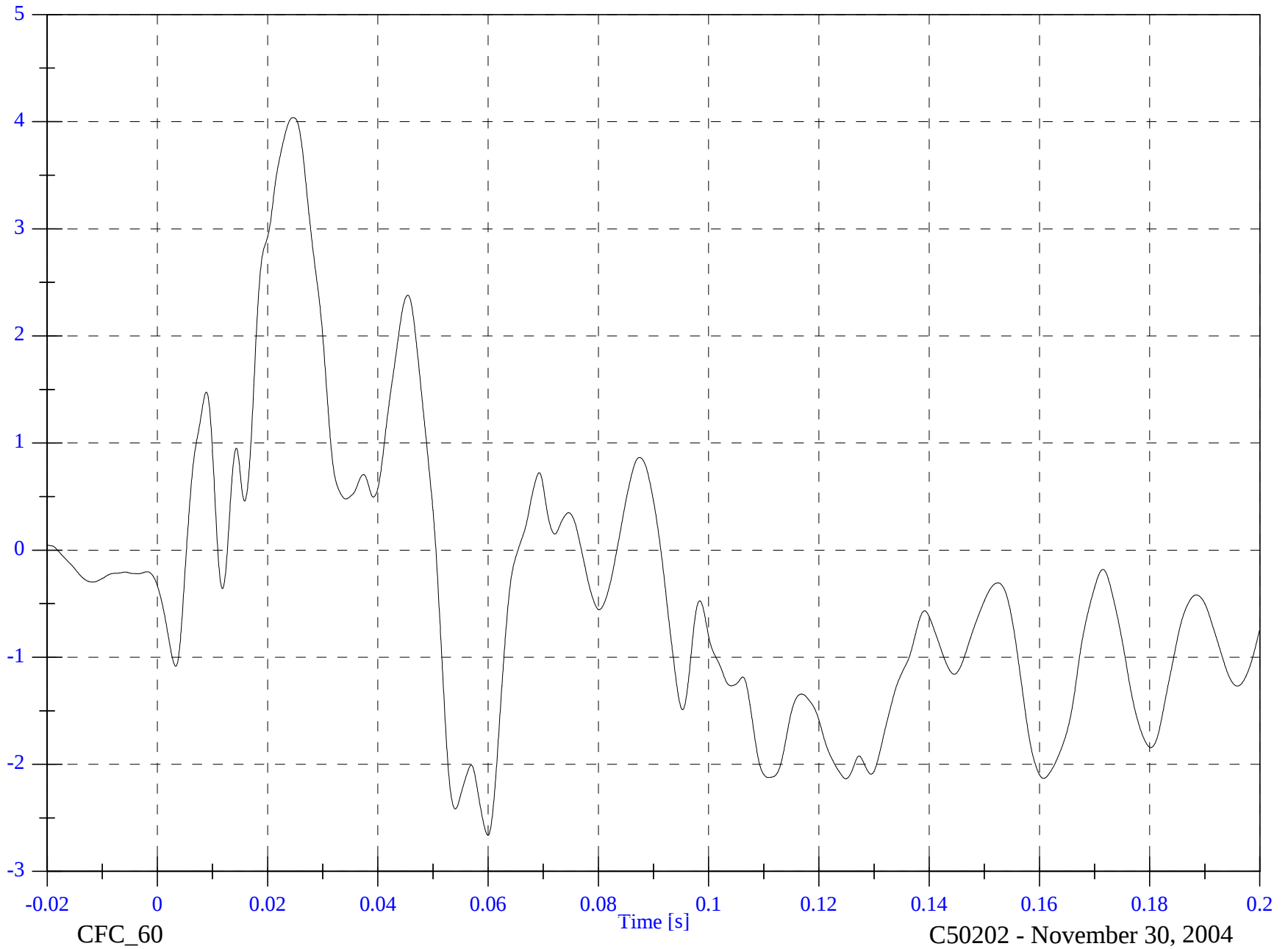
C50202 - November 30, 2004

2005 214 Inducant Test 2 - 2005 Ford Mustang

V1 Moving Barrier Left Rail Y

Max: 4.0 [g] at 0.025 [s]

Min: -2.7 [g] at 0.060 [s]



B-115

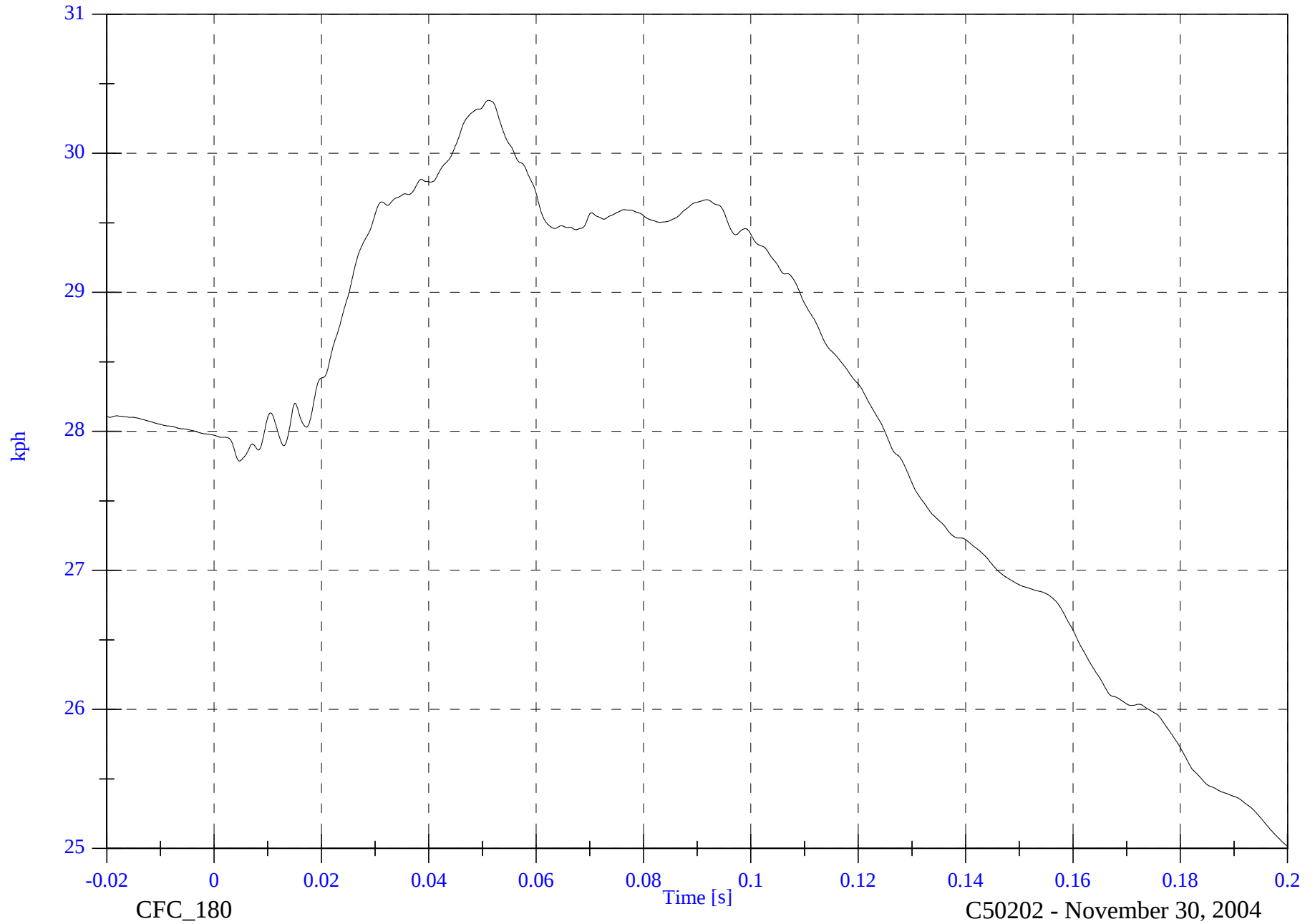
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V1 Moving Barrier Left Rail Y Velocity

Max: 30.4 [kph] at 0.051 [s]

Min: 25.0 [kph] at 0.200 [s]



B-116

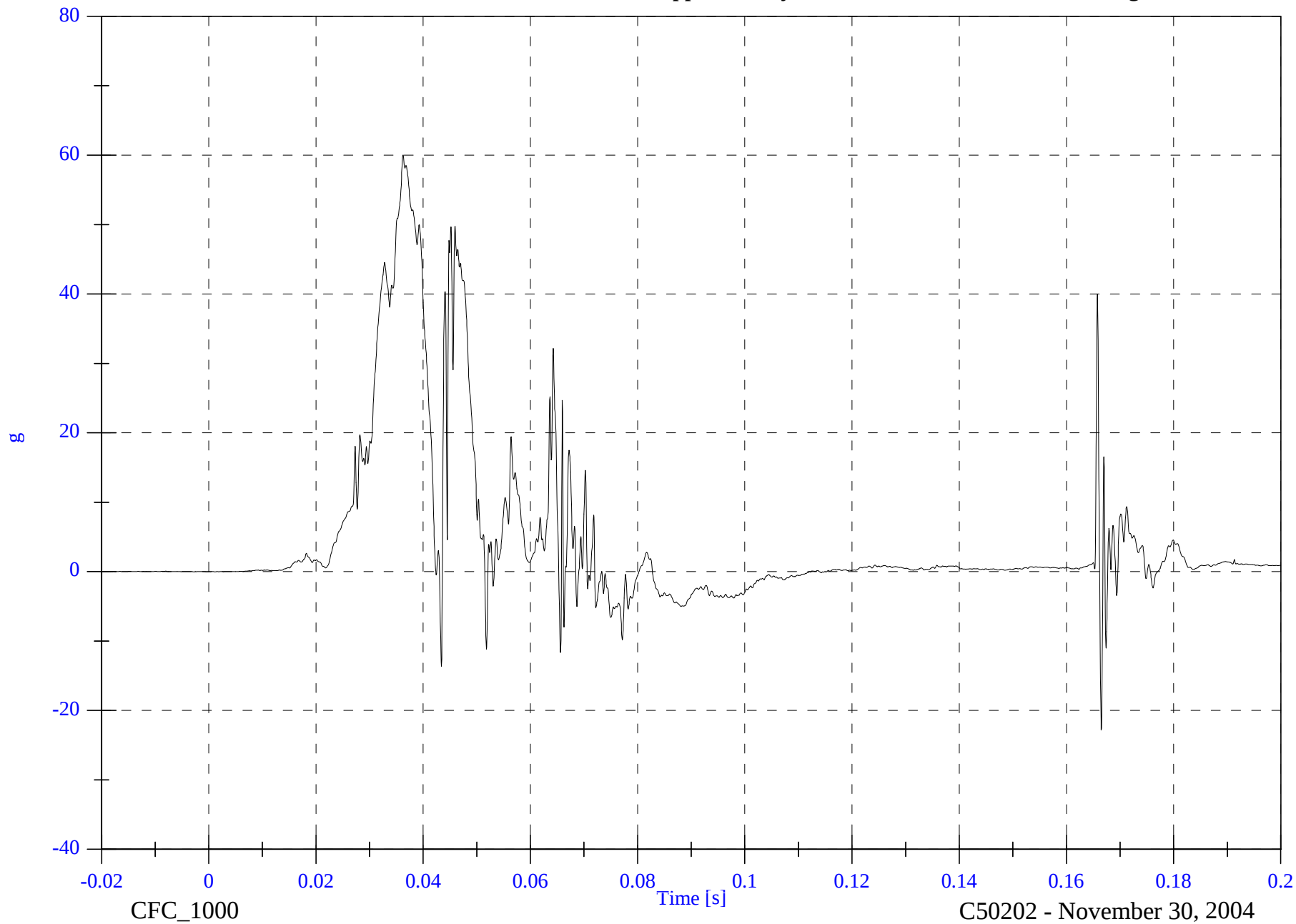
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P1 Upper Rib Ry

Max: 60.0 [g] at 0.036 [s]

Min: -22.8 [g] at 0.167 [s]



B-117

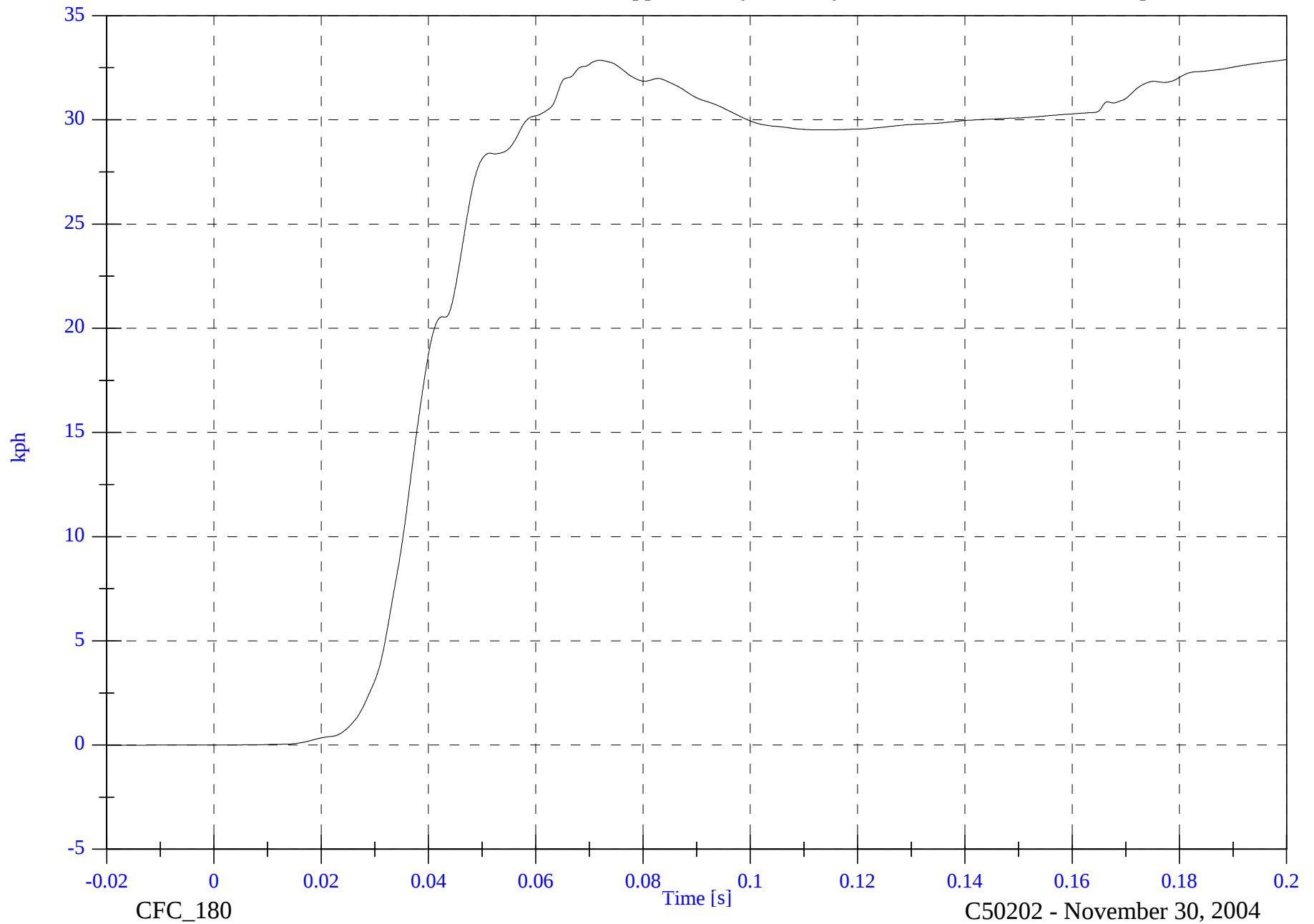
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Upper Rib Ry Velocity

Max: 32.9 [kph] at 0.200 [s]

Min: -0.0 [kph] at -0.020 [s]



B-118

8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

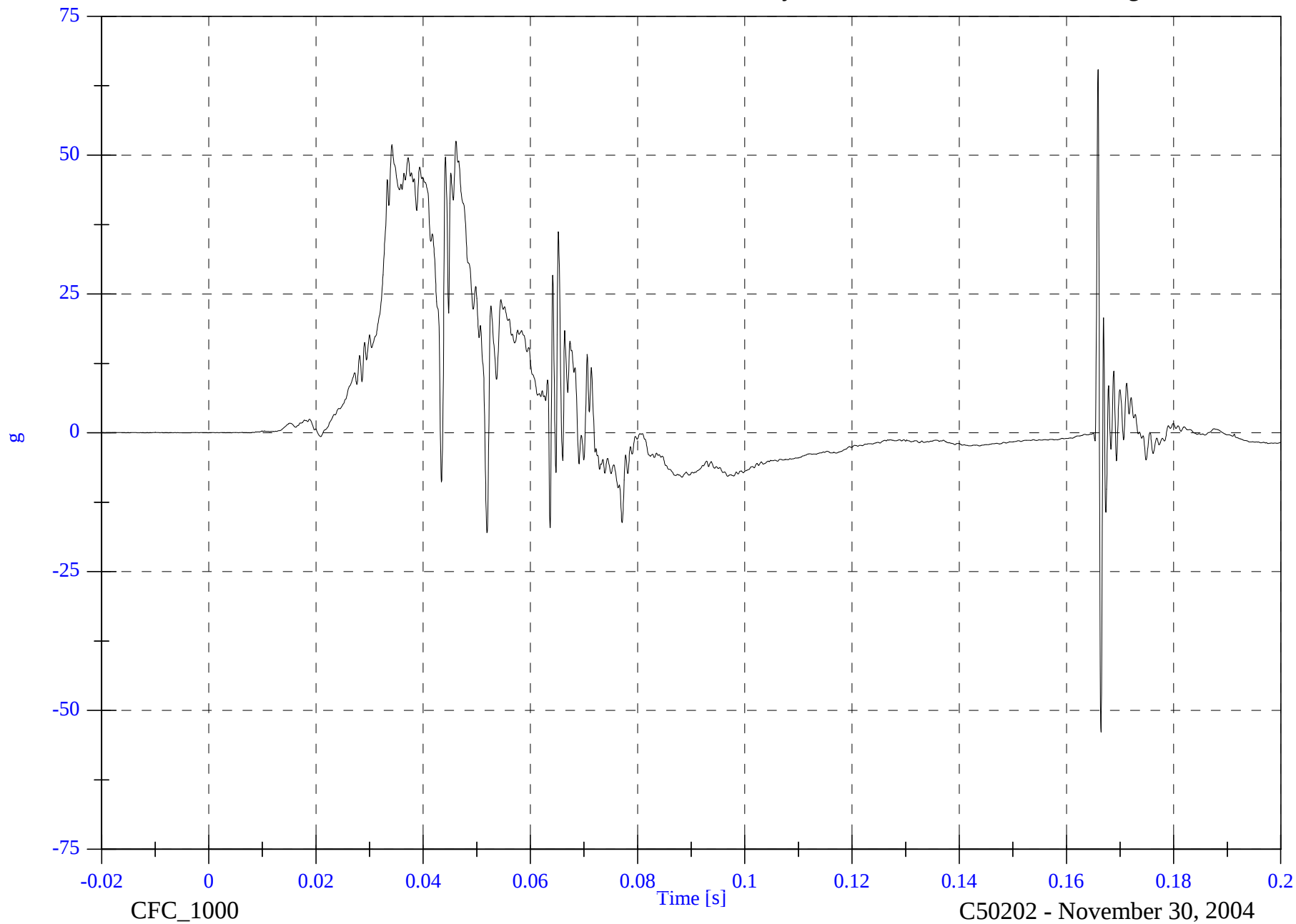
V2P1 Lower Rib Ry

Max: 65.4 [g] at 0.166 [s]

Min: -53.9 [g] at 0.166 [s]

B-119

8675-F214-21

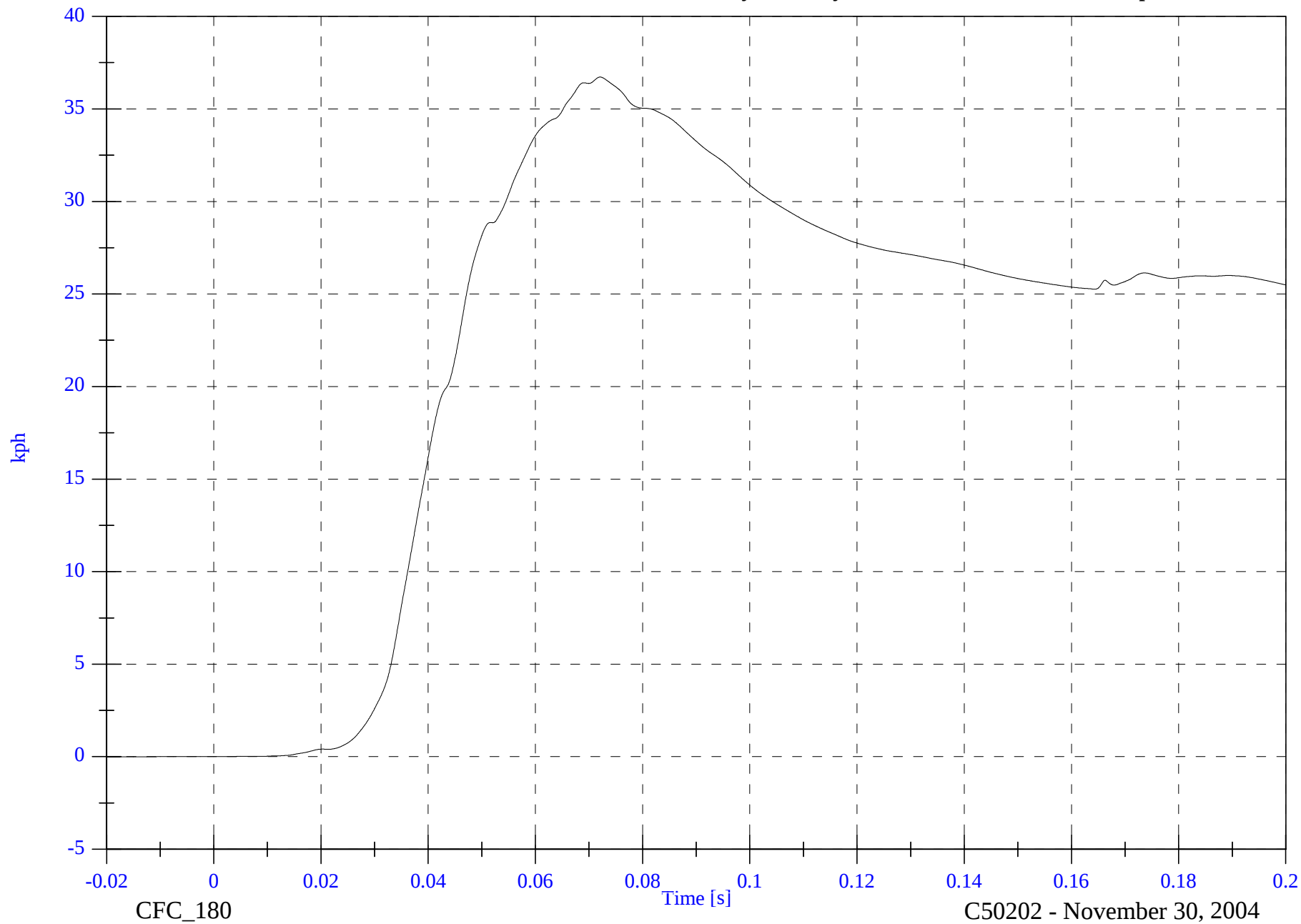


2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P1 Lower Rib Ry Velocity

Max: 36.7 [kph] at 0.072 [s]

Min: -0.0 [kph] at -0.020 [s]



B-120

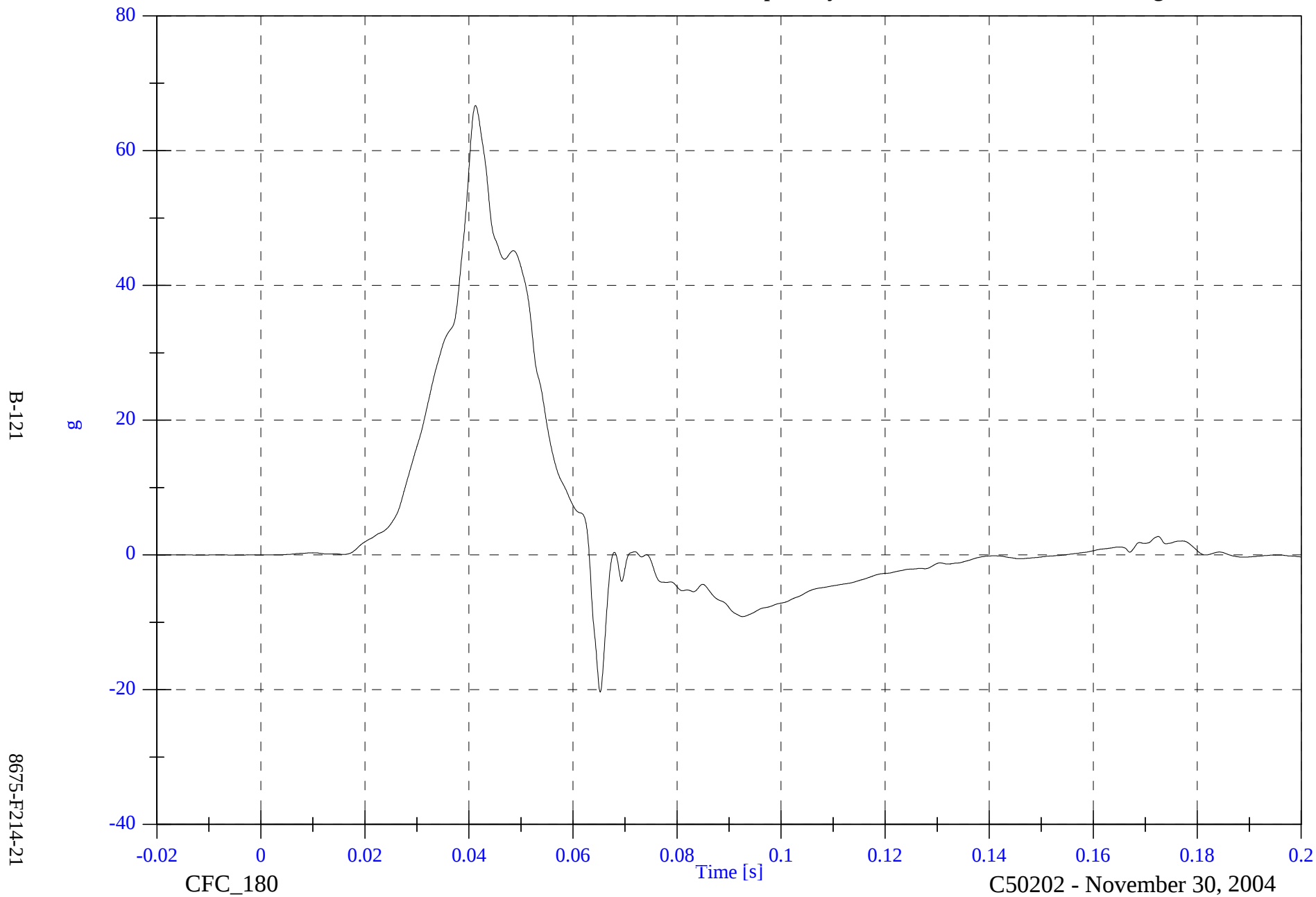
8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P1 Lower Spine Ry

Max: 66.7 [g] at 0.041 [s]

Min: -20.3 [g] at 0.065 [s]

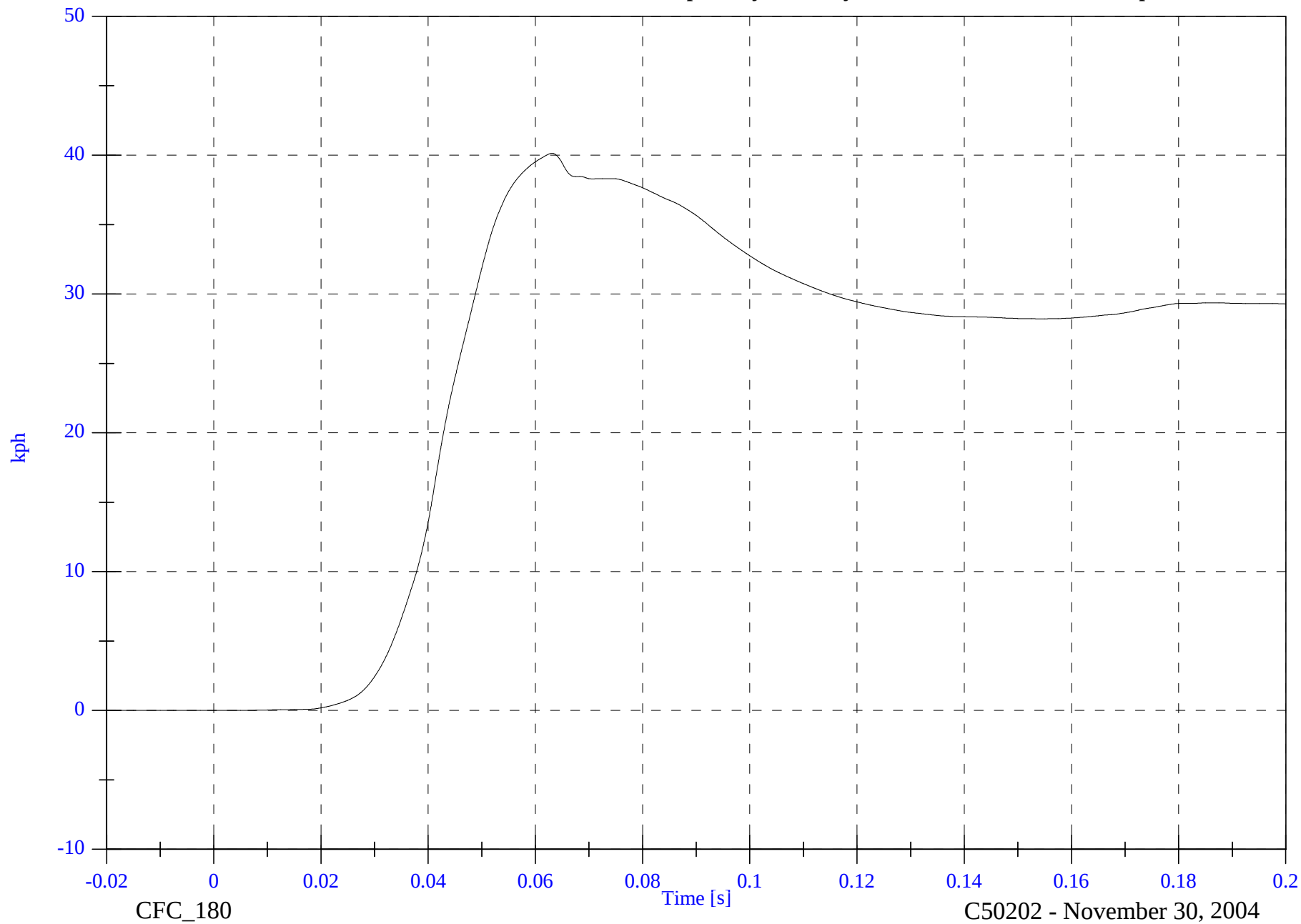


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Lower Spine Ry Velocity

Max: 40.1 [kph] at 0.063 [s]

Min: -0.0 [kph] at 0.001 [s]



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8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

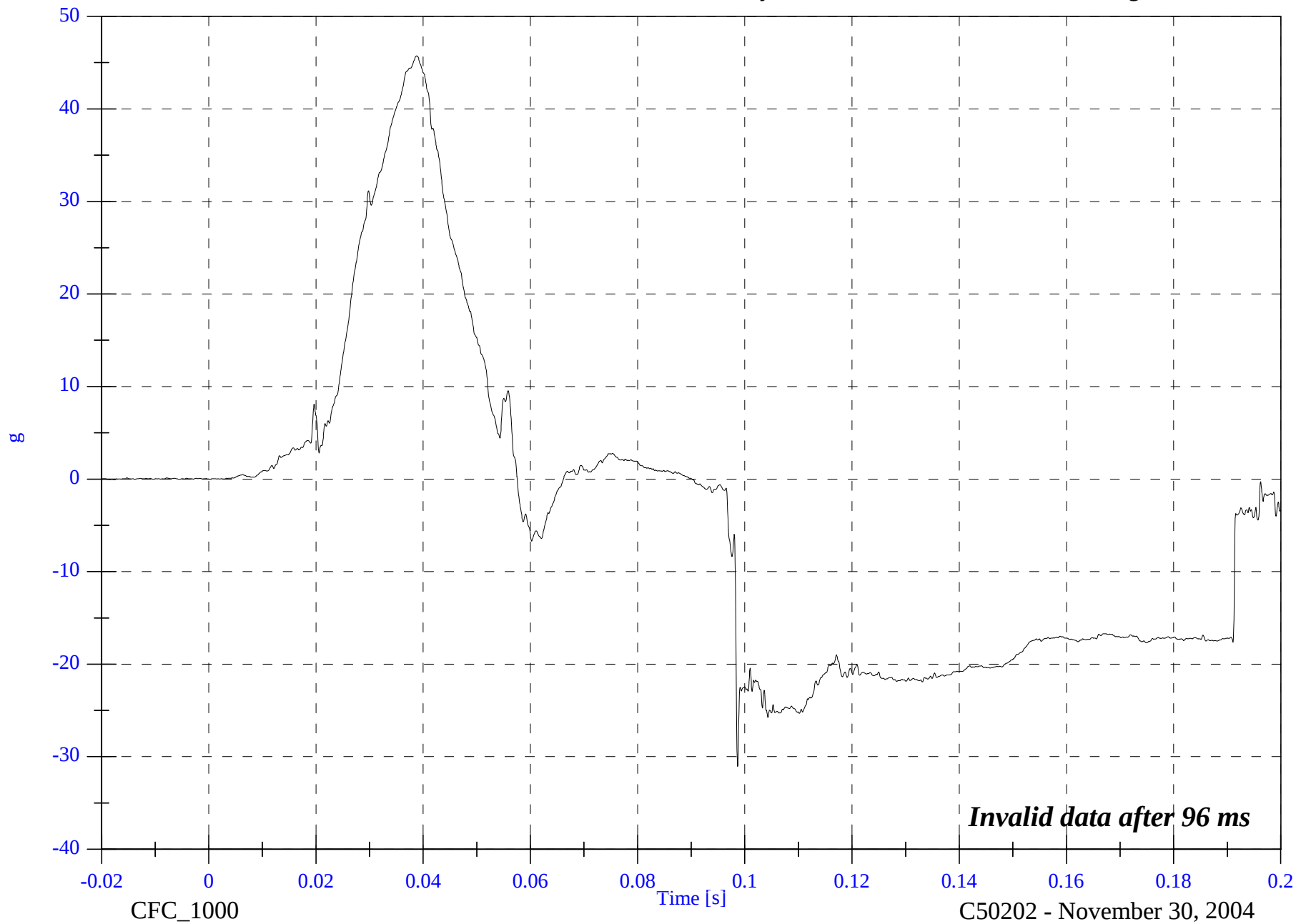
V2P1 Pelvic Ry

Max: 45.7 [g] at 0.039 [s]

Min: -31.0 [g] at 0.099 [s]

B-123

8675-F214-21

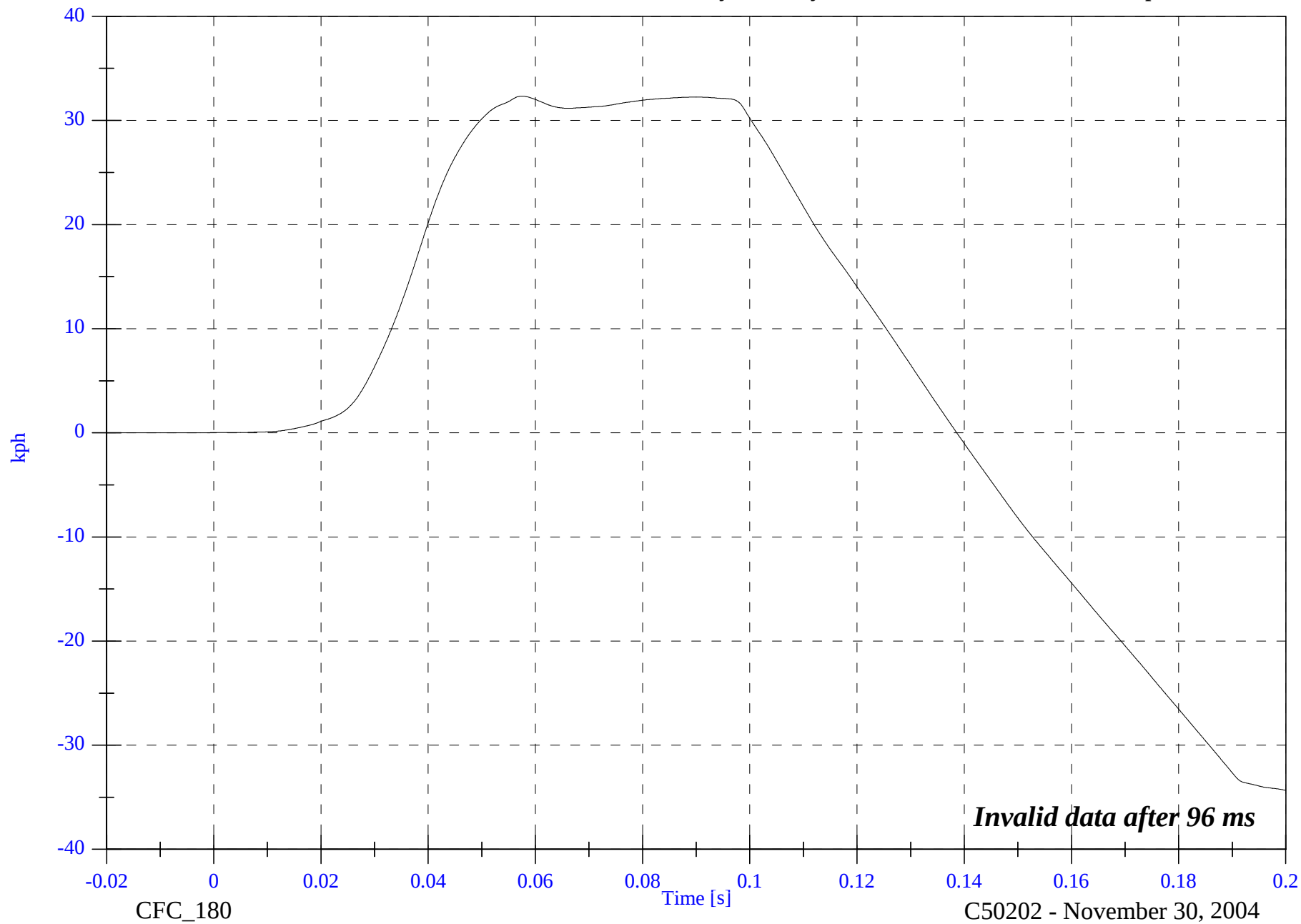


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Pelvic Ry Velocity

Max: 32.3 [kph] at 0.057 [s]

Min: -34.3 [kph] at 0.200 [s]



B-124

8675-F214-21

CFC_180

C50202 - November 30, 2004

2005 214 Inducant Test 2 - 2005 Ford Mustang

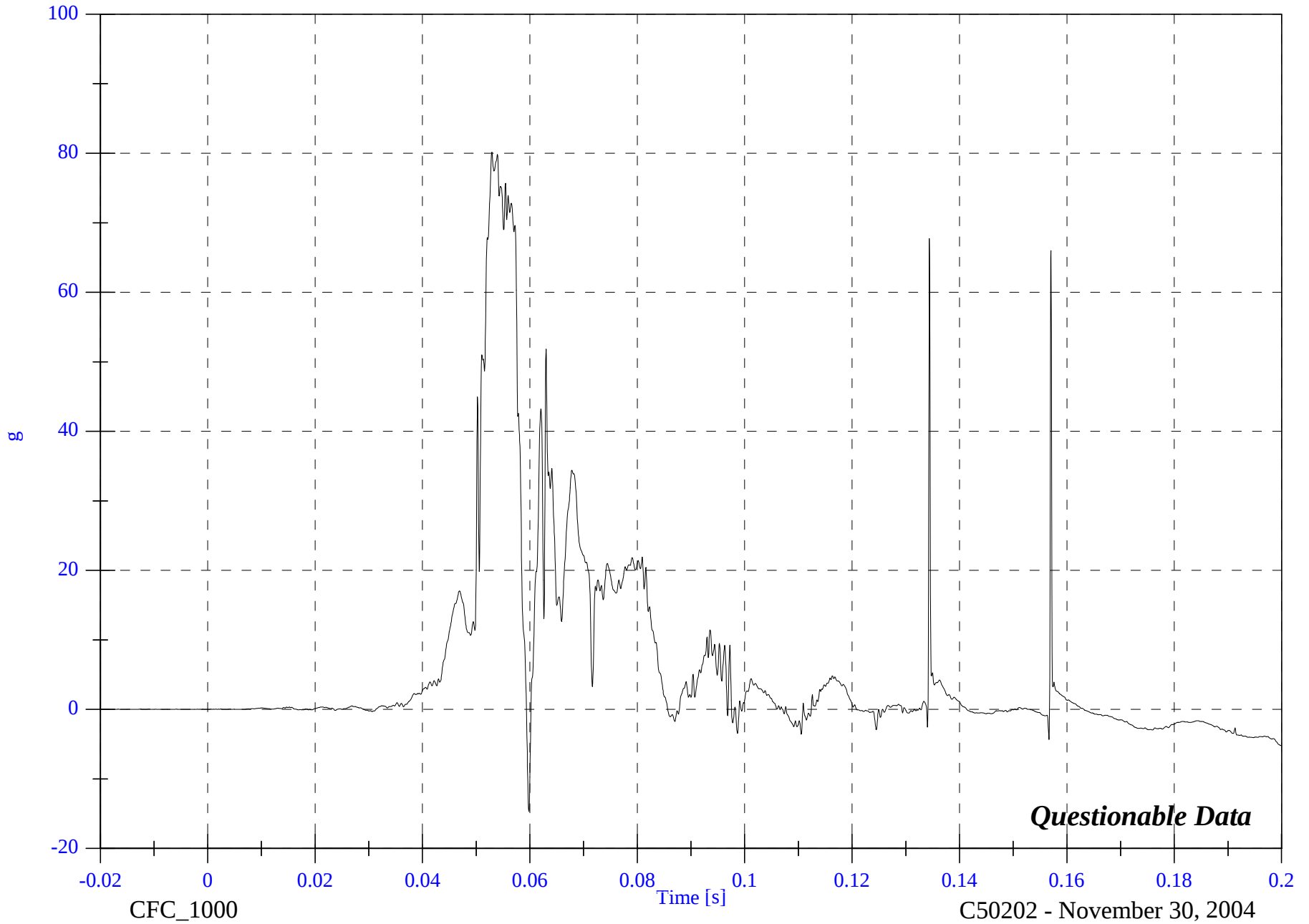
V2P4 Upper Rib Ry

Max: 80.1 [g] at 0.053 [s]

Min: -14.6 [g] at 0.060 [s]

B-125

8675-F214-21

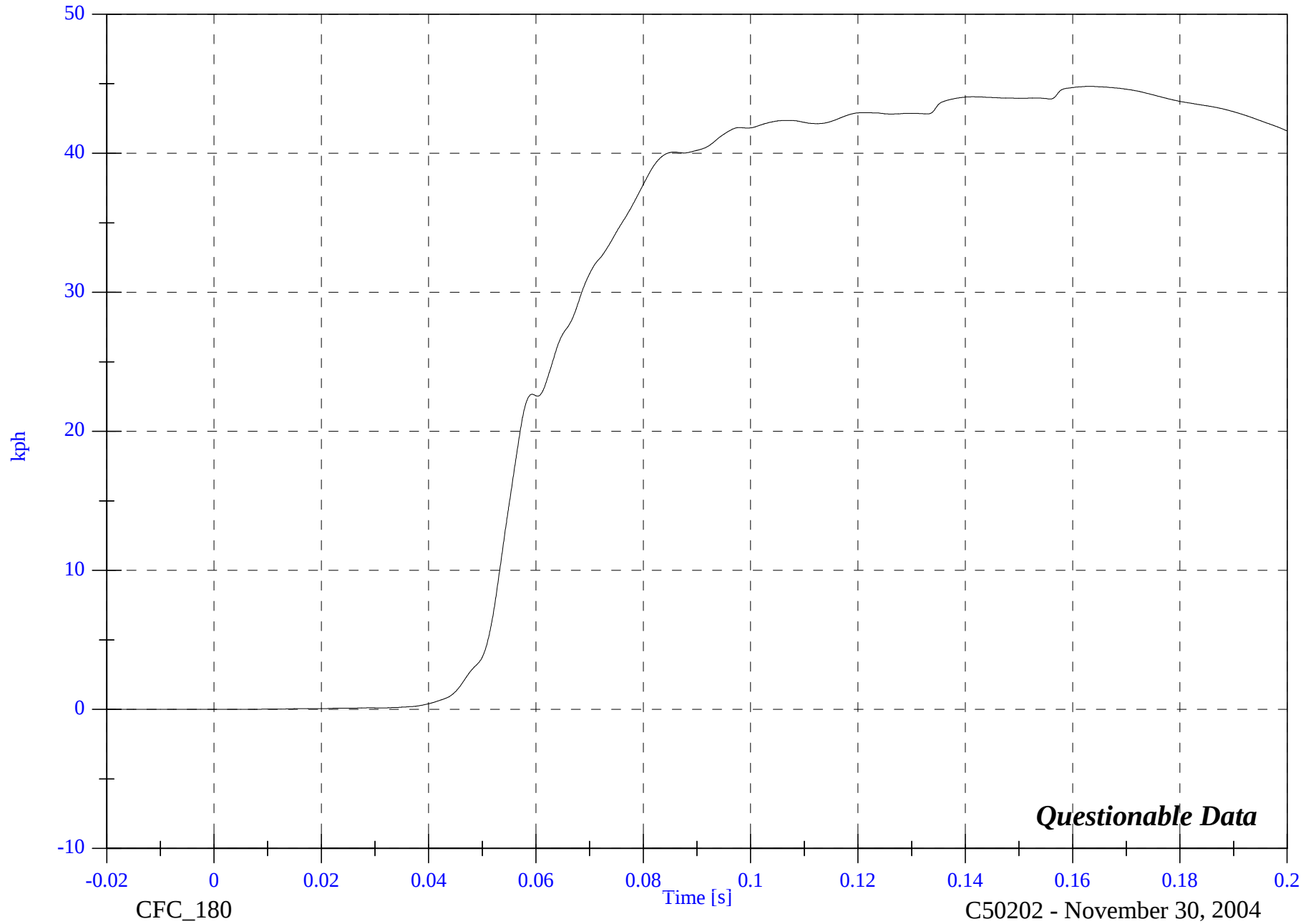


2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P4 Upper Rib Ry Velocity

Max: 44.8 [kph] at 0.163 [s]

Min: -0.0 [kph] at -0.018 [s]



B-126

8675-F214-21

CFC_180

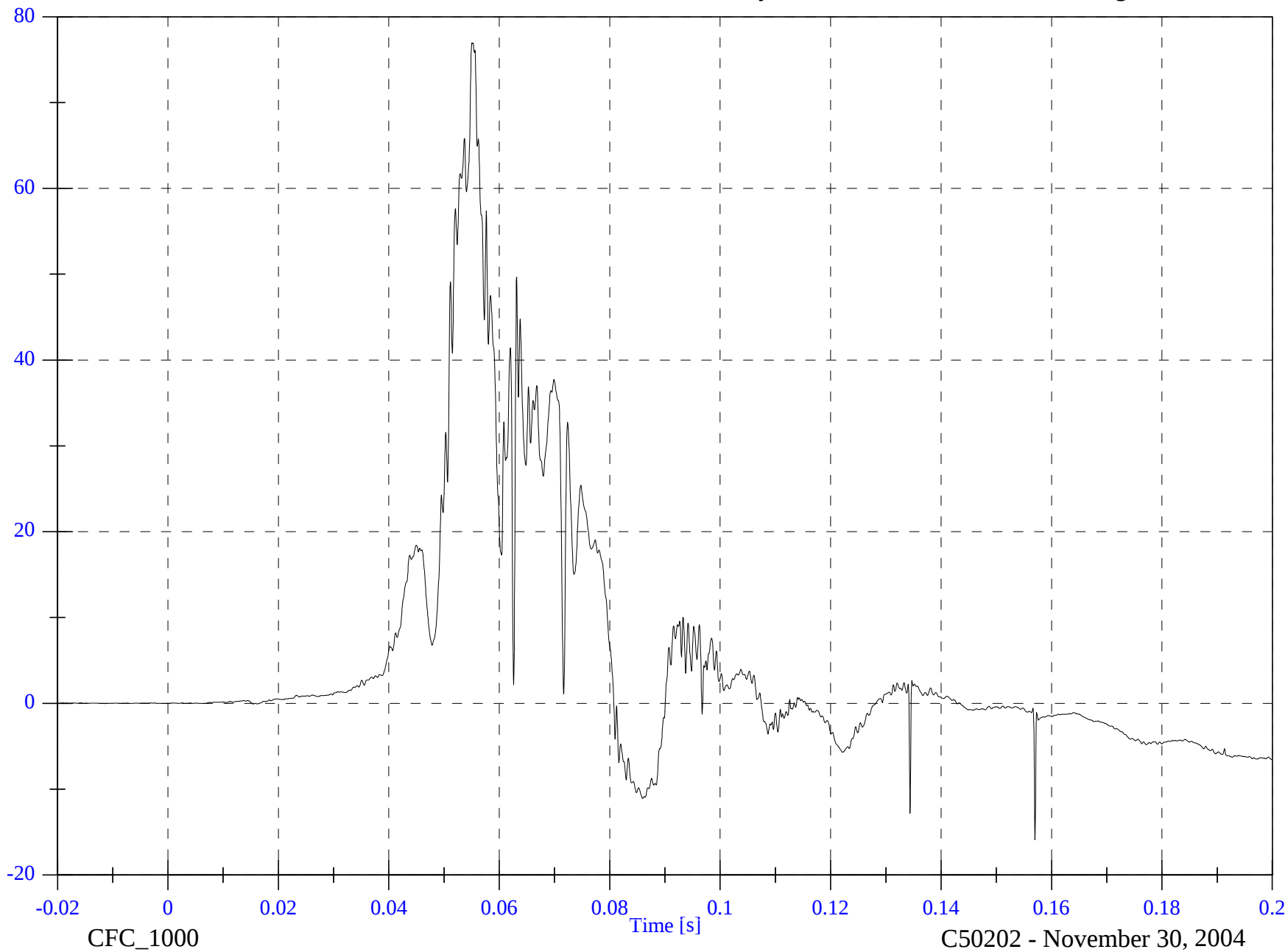
C50202 - November 30, 2004

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P4 Lower Rib Ry

Max: 77.0 [g] at 0.055 [s]

Min: -15.9 [g] at 0.157 [s]



B-127

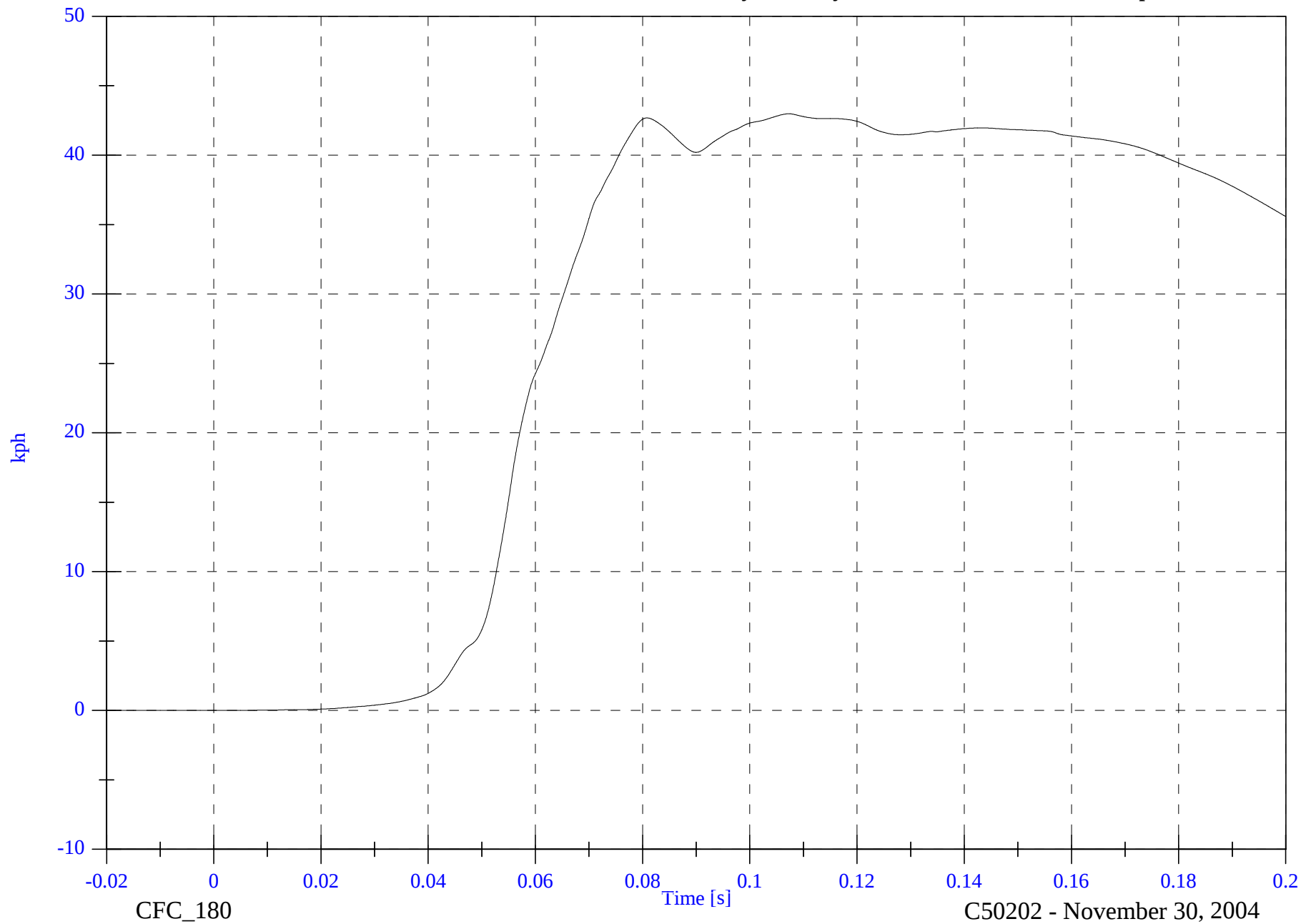
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P4 Lower Rib Ry Velocity

Max: 43.0 [kph] at 0.107 [s]

Min: -0.0 [kph] at -0.020 [s]



B-128

8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

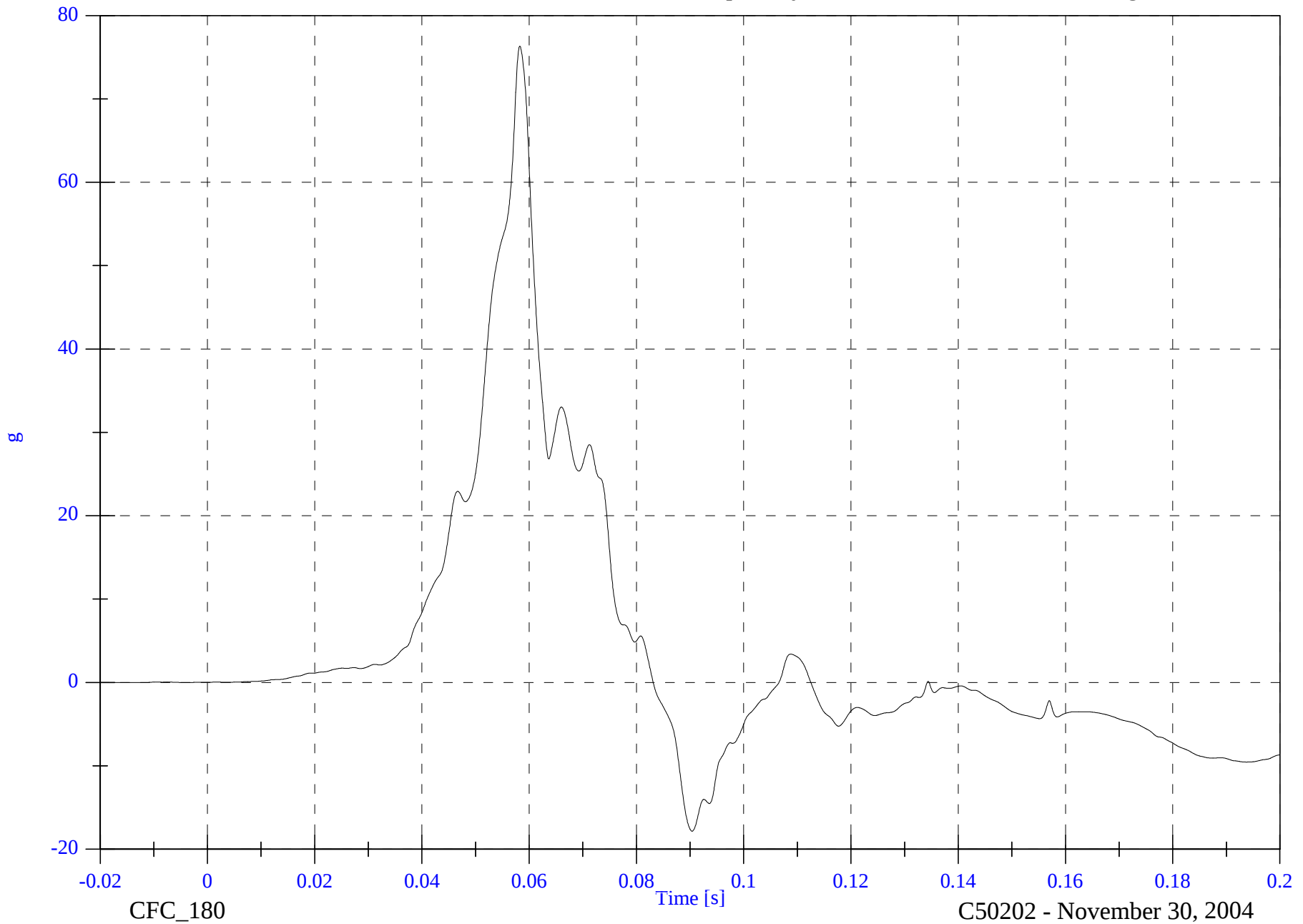
V2P4 Lower Spine Ry

Max: 76.3 [g] at 0.058 [s]

Min: -17.8 [g] at 0.090 [s]

B-129

8675-F214-21

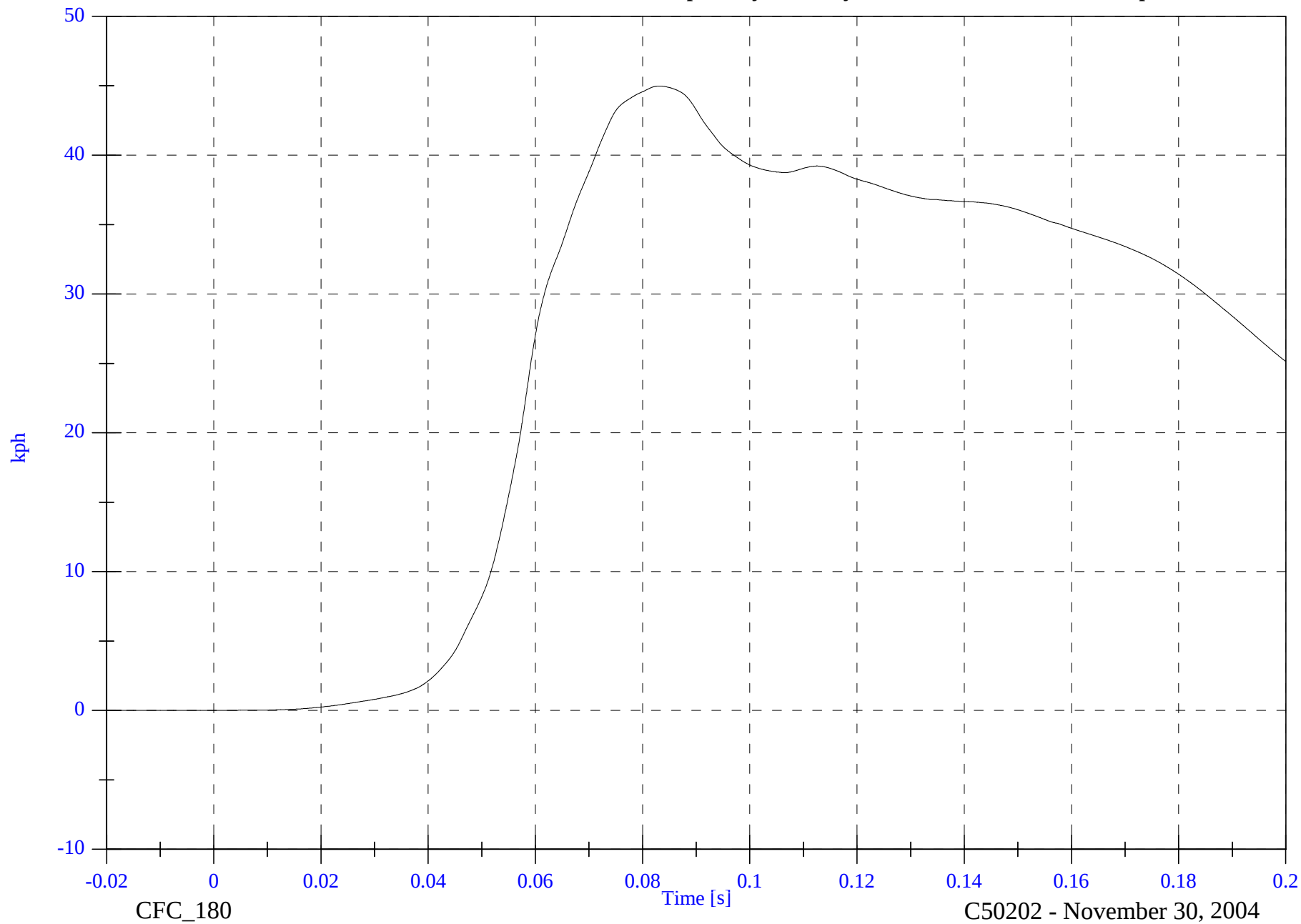


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P4 Lower Spine Ry Velocity

Max: 45.0 [kph] at 0.083 [s]

Min: -0.0 [kph] at -0.012 [s]



B-130

8675-F214-21

2005 214 Inducant Test 2 - 2005 Ford Mustang

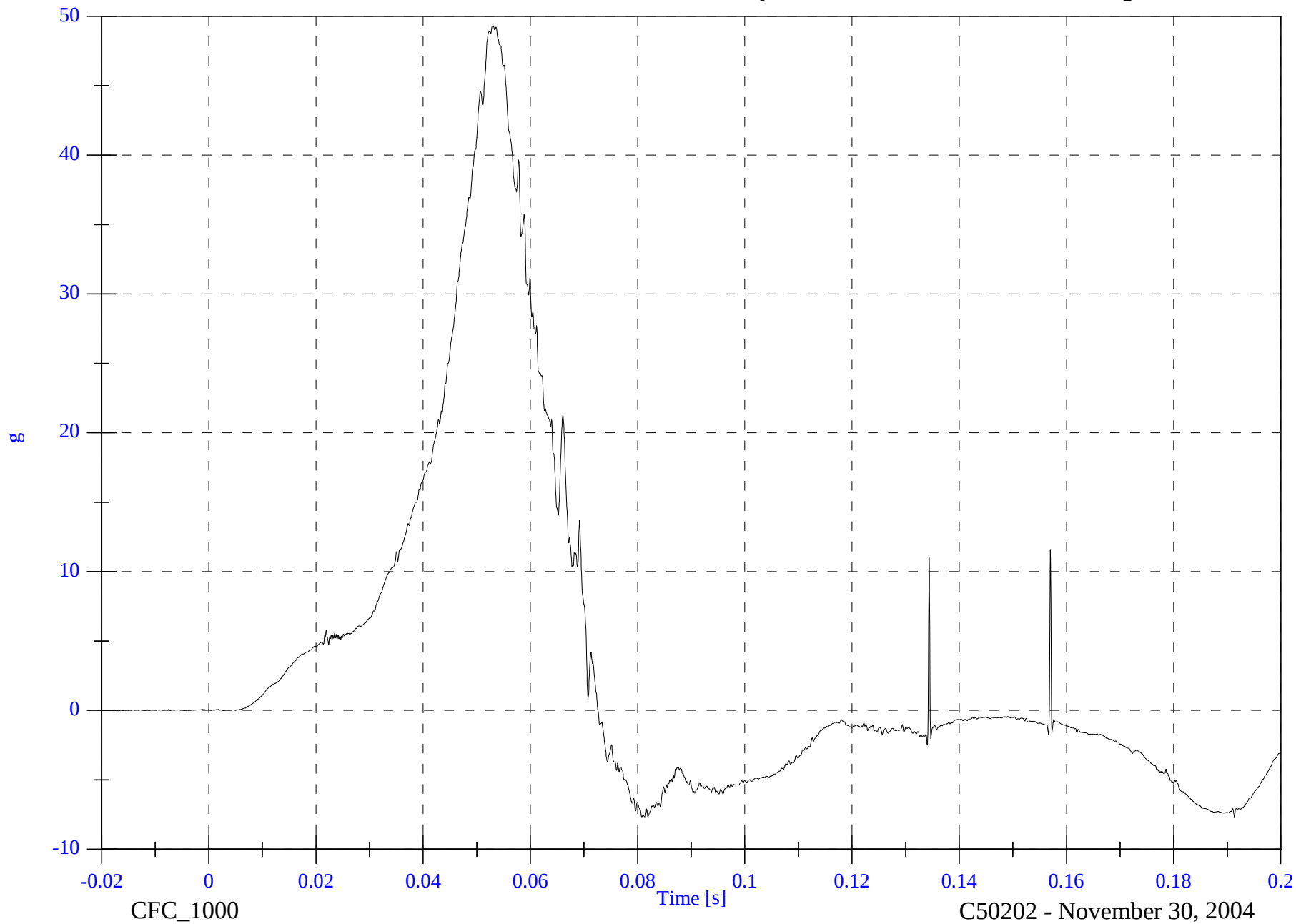
V2P4 Pelvic Ry

Max: 49.3 [g] at 0.053 [s]

Min: -7.7 [g] at 0.081 [s]

B-131

8675-F214-21

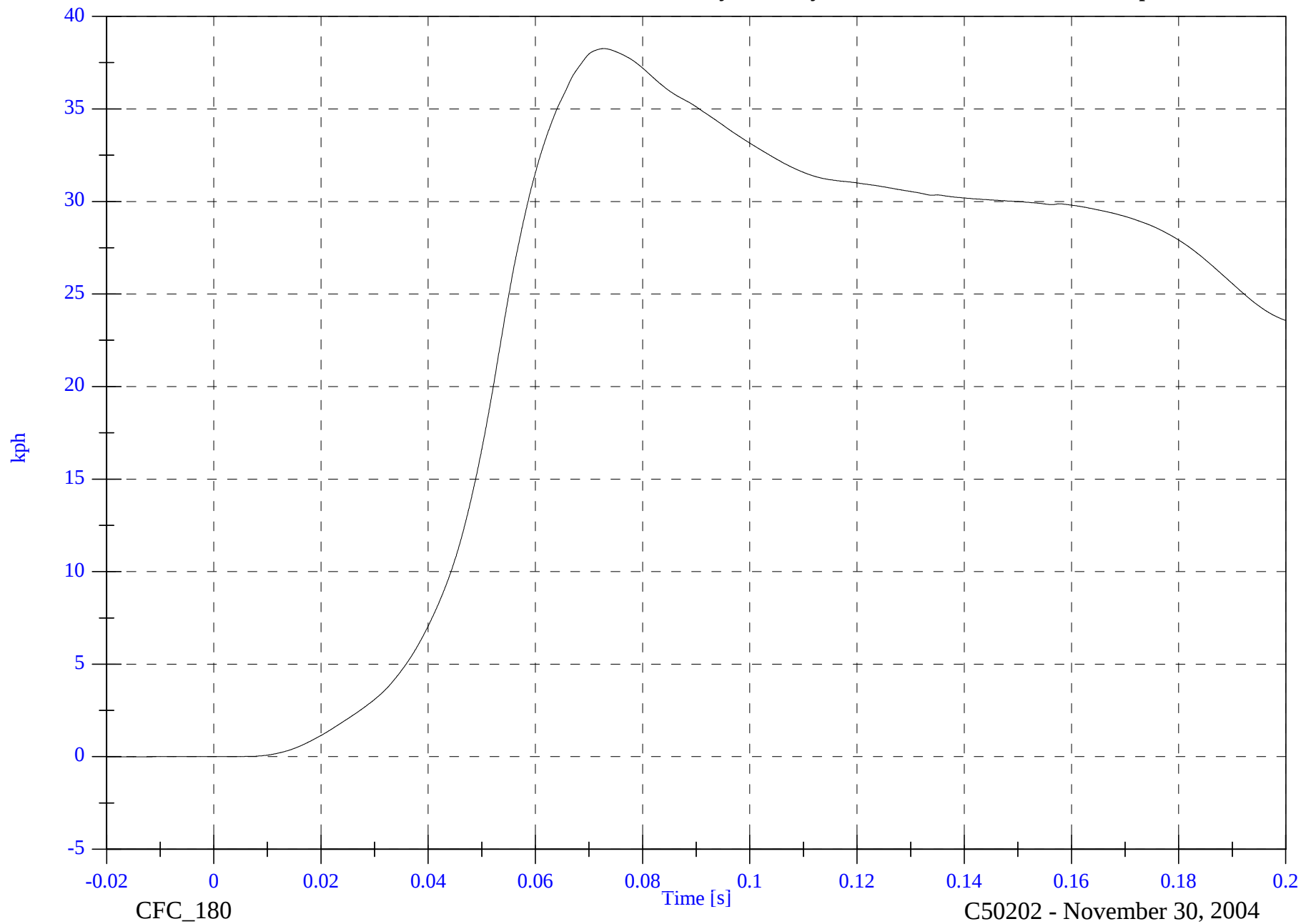


2005 214 Inducant Test 2 - 2005 Ford Mustang

V2P4 Pelvic Ry Velocity

Max: 38.3 [kph] at 0.073 [s]

Min: -0.0 [kph] at -0.016 [s]



B-132

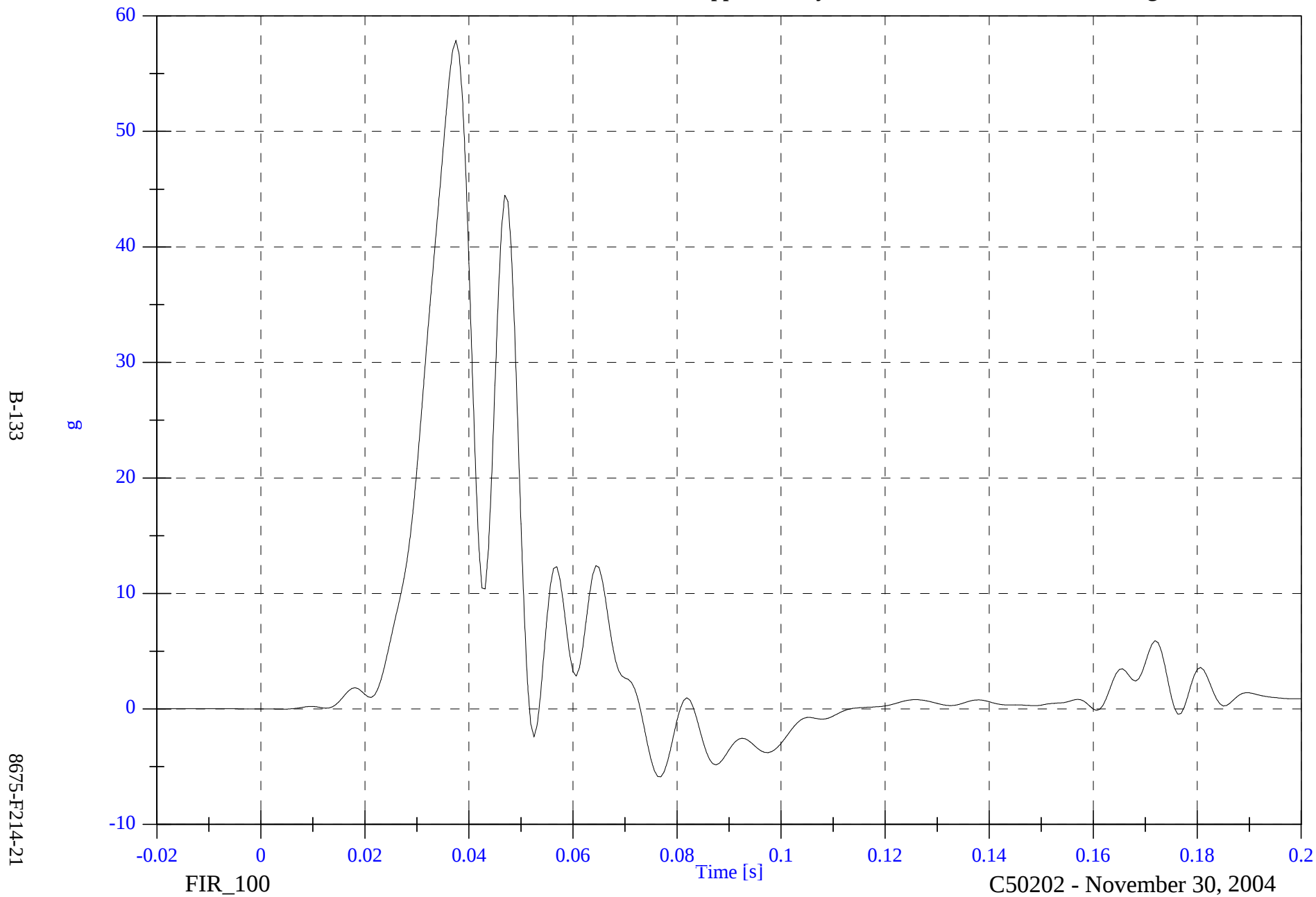
8675-F214-21

2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Upper Rib Ry

Max: 57.9 [g] at 0.037 [s]

Min: -5.9 [g] at 0.077 [s]

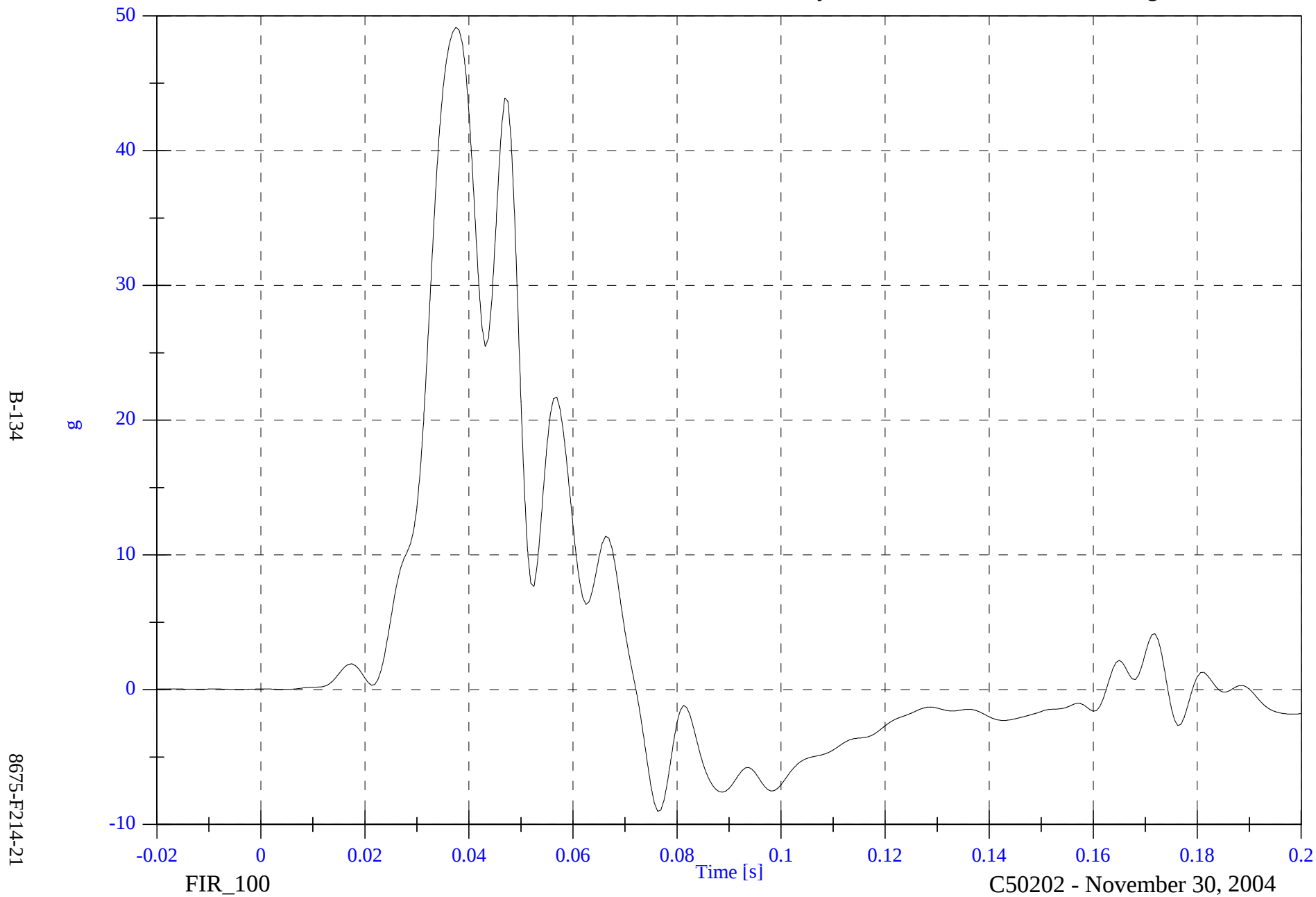


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Lower Rib Ry

Max: 49.2 [g] at 0.037 [s]

Min: -9.0 [g] at 0.076 [s]



2005 214 Indicant Test 2 - 2005 Ford Mustang

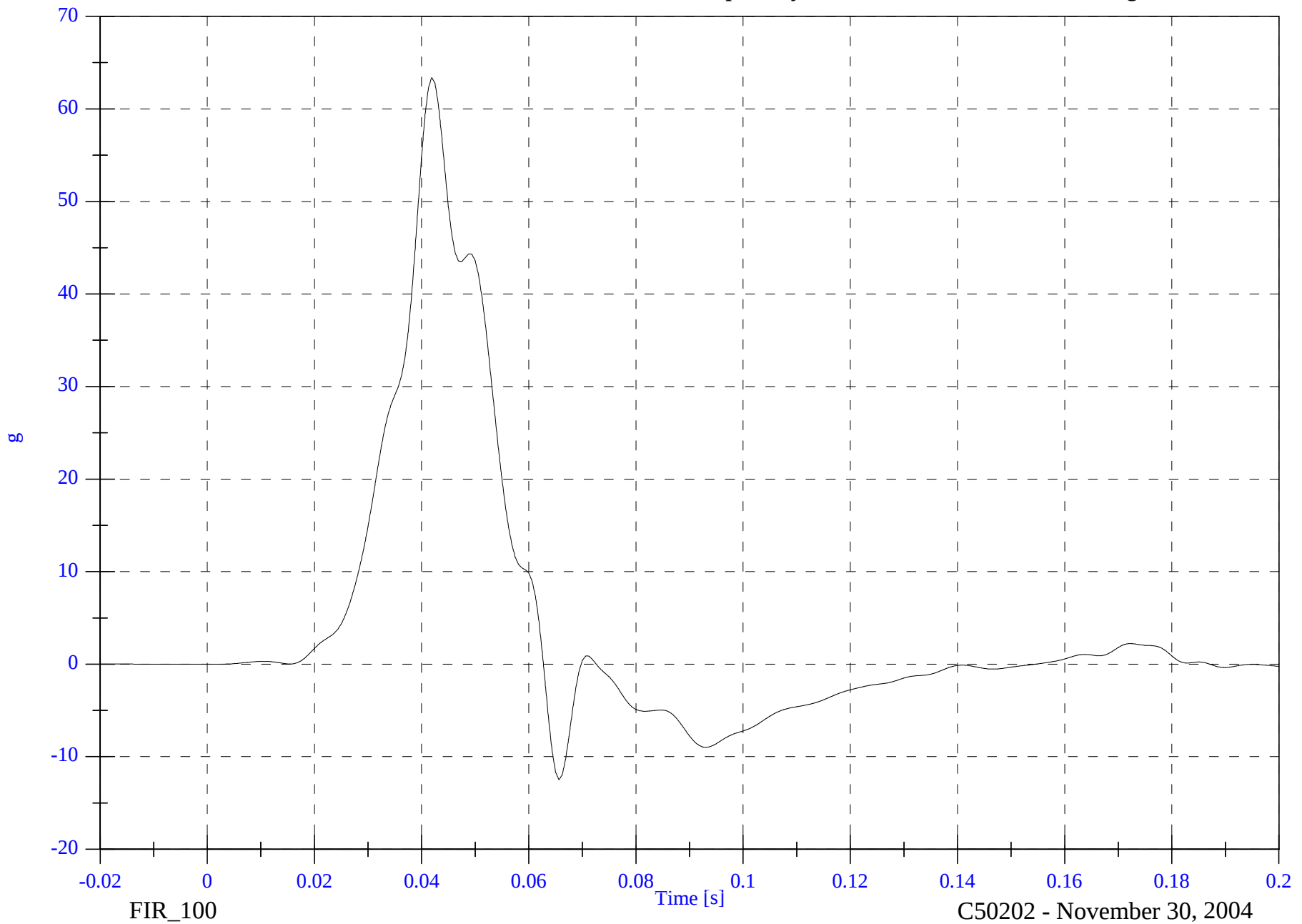
V2P1 Lower Spine Ry

Max: 63.4 [g] at 0.042 [s]

Min: -12.5 [g] at 0.066 [s]

B-135

8675-F214-21

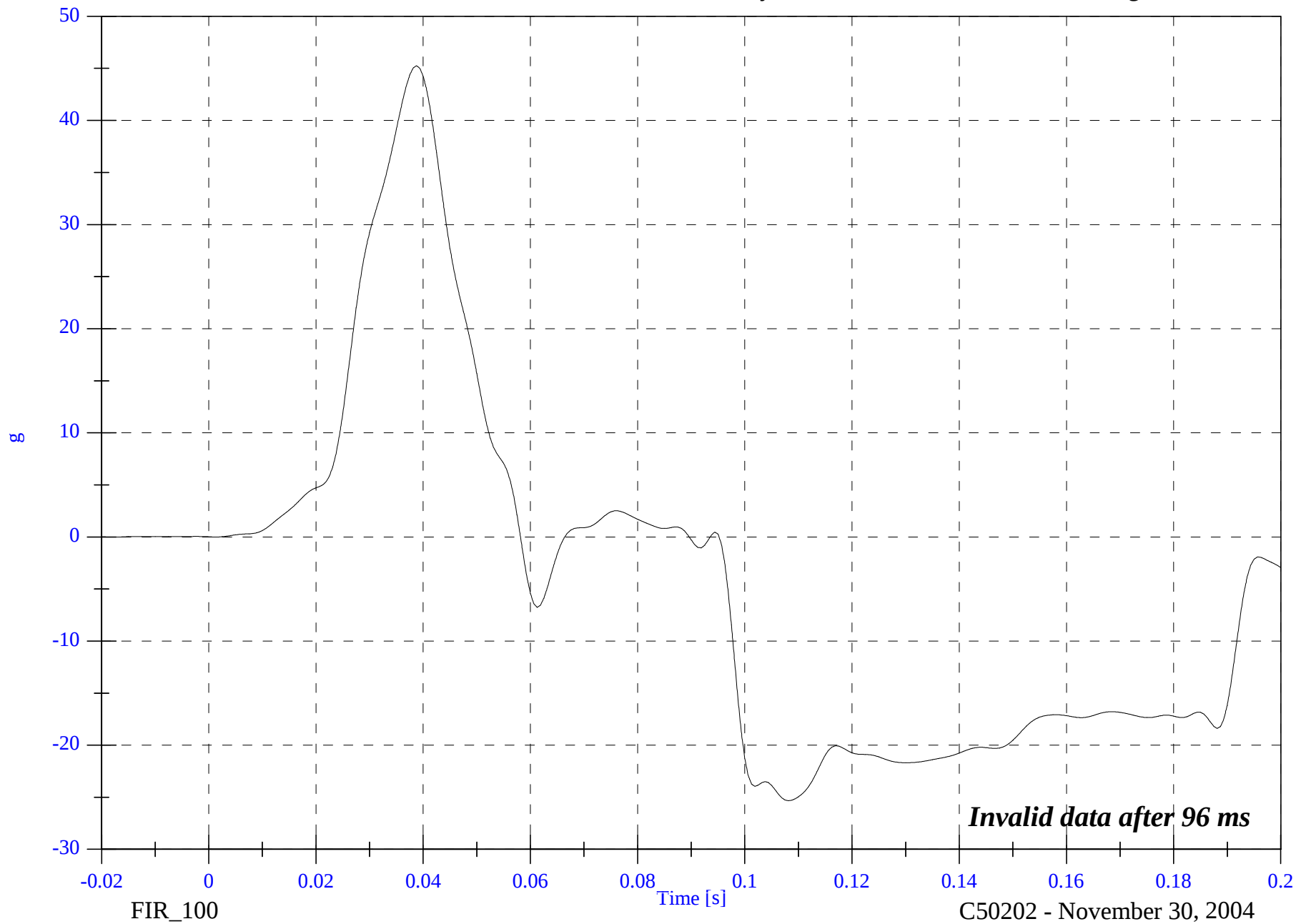


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P1 Pelvic Ry

Max: 45.3 [g] at 0.039 [s]

Min: -25.3 [g] at 0.108 [s]



B-136

8675-F214-21

FIR_100

C50202 - November 30, 2004

Data Plot is Not Available

2005 214 Indicant Test 2 - 2005 Ford Mustang

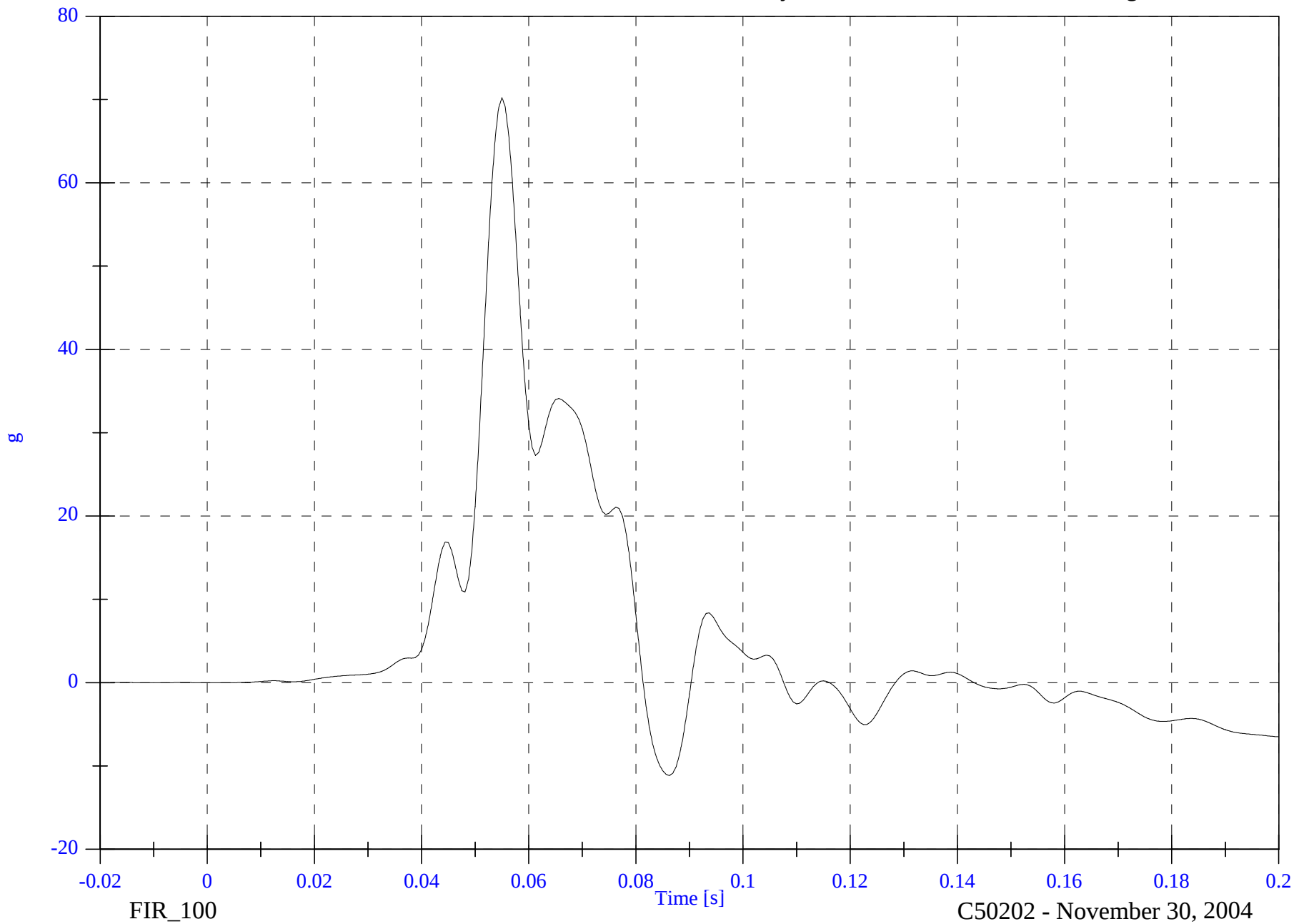
V2P4 Lower Rib Ry

Max: 70.2 [g] at 0.055 [s]

Min: -11.1 [g] at 0.086 [s]

B-138

8675-F214-21



2005 214 Indicant Test 2 - 2005 Ford Mustang

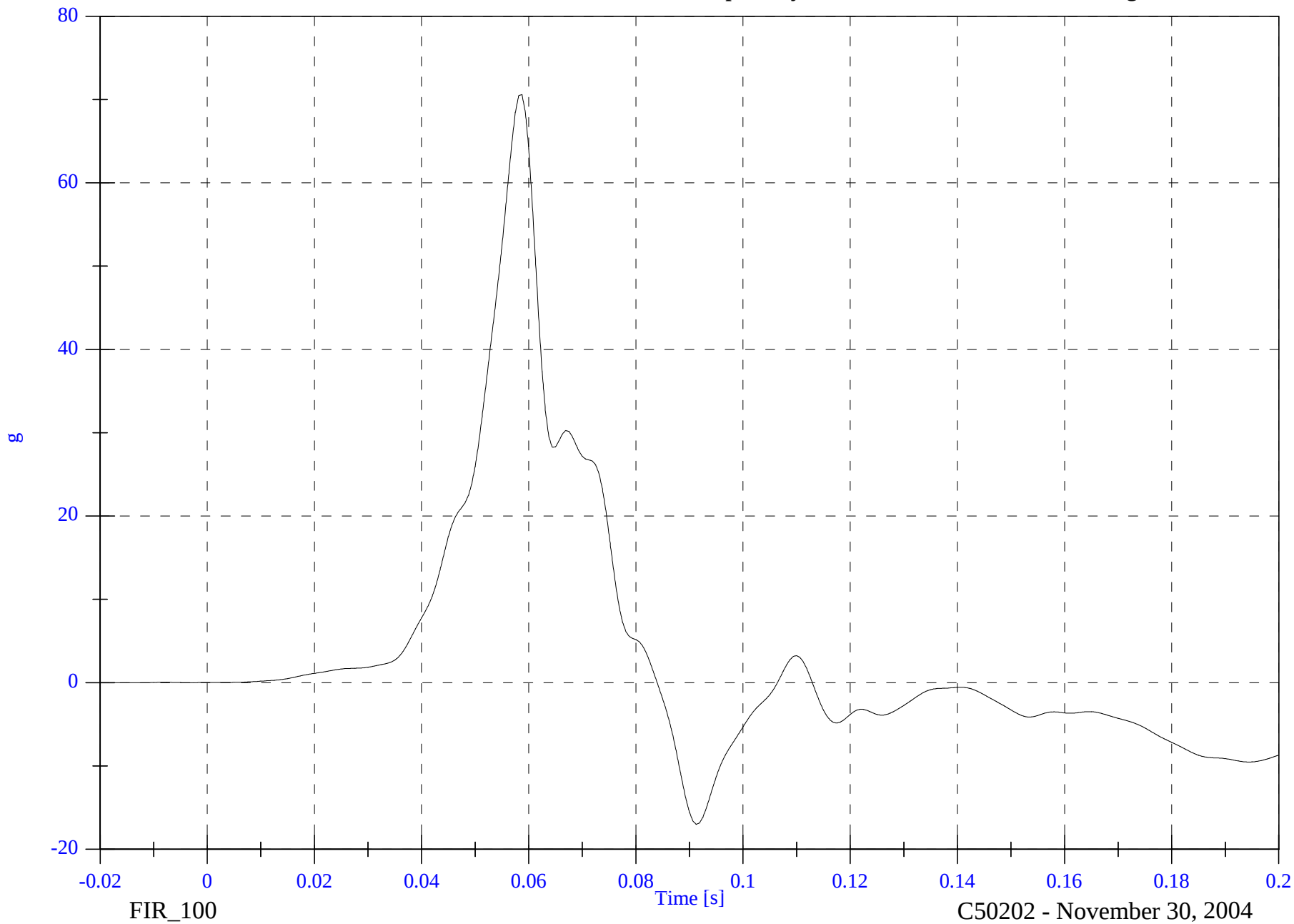
V2P4 Lower Spine Ry

Max: 70.6 [g] at 0.059 [s]

Min: -17.0 [g] at 0.091 [s]

B-139

8675-F214-21

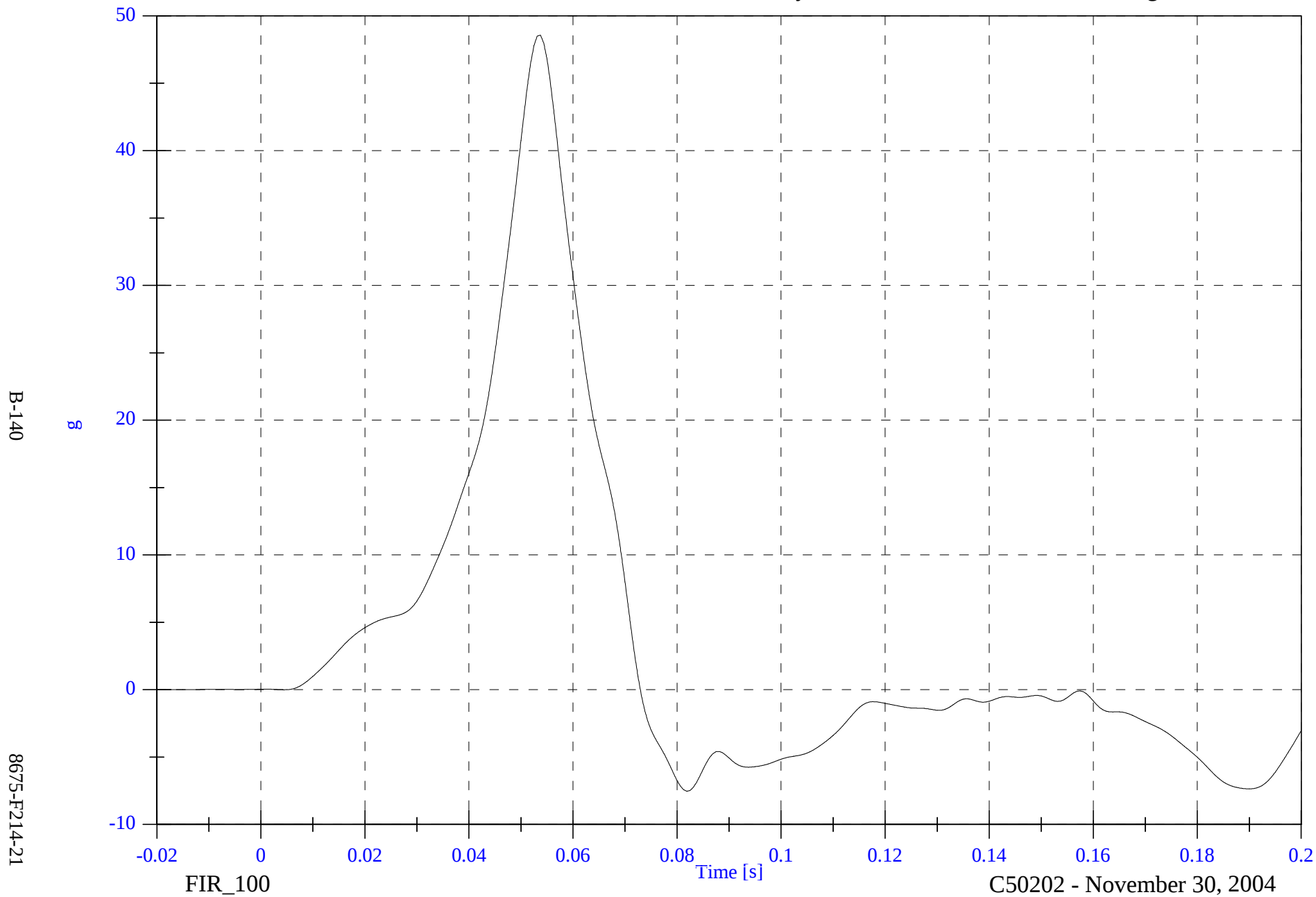


2005 214 Indicant Test 2 - 2005 Ford Mustang

V2P4 Pelvic Ry

Max: 48.6 [g] at 0.054 [s]

Min: -7.5 [g] at 0.082 [s]



APPENDIX C

SID HYBRID III CONFIGURATION AND PERFORMANCE VERIFICATION DATA

SUMMARY
SID H3 PRE & POST TEST CALIBRATION
CONFIGURED FOR LEFT SIDE IMPACT

Date: November 29, 2004; December 23, 2004 Sequential Test Number: 1;2
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	SID H3 905 NO.:		SID H3 906 NO.:	
		PRE TEST	POST TEST	PRE TEST	POST TEST
SH- Seated Height (mm)	889 - 909	909	909	908	908
RH- Rib Height (mm)	501 - 521	520	520	514	514
HP- Hip Pivot Height (mm)	99 ref.	99	99	99	99
RD- Rib from Back Line (mm)	229 - 241	241	241	231	231
KV- Knee Pivot from Back Line (mm)	511 - 526	521	521	514	514
SW- Knee Pivot to Floor (mm)	490 - 505	493	493	493	493
HW- Hip Width (mm)	356 - 391	361	361	378	378
THORAX IMPACTS					
TEMPERATURE (°C)	18.9 - 25.5	21.1	21.1	21.1	21.1
RELATIVE HUMIDITY (%)	10 -70	35.00	38.00	37.00	33.00
PROBE SPEED (m/s)	4.27 - 4.33	4.27	4.27	4.27	4.27
UPPER RIB (g's)	37 - 46	37.65	37.20	42.04	44.06
LOWER RIB (g's)	37 - 46	37.94	37.53	41.76	44.05
LOWER SPINE (g's)	15 -22	18.12	17.44	18.50	20.24
PELVIS IMPACT					
TEMPERATURE (°C)	18.9 - 25.5	21.1	21.1	21.1	21.1
RELATIVE HUMIDITY (%)	10 - 70	37.00	35.00	37.00	37.00
PROBE SPEED (m/s)	4.27 - 4.33	4.28	4.27	4.27	4.27
PELVIS (g's)	40 -60	44.33	48.99	50.06	50.16

REMARKS: None

CALIBRATION TEST RESULTS

PRE-TEST

SID H3 NO.: 905

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 905 Sequential Test Number: 1
Date: November 29, 2004 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
THORACIC SHOCK ABSORBER TEST	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 905 Sequential Test Number: 1
Date: November 29, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 – 909	909
RH- Rib Height (mm)	502 – 520	520
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 – 241	241
KH- Knee Pivot from Back Line (mm)	511 – 526	521
KV- Knee Pivot to Floor (mm)	490 – 505	493
HW- Hip Width (mm)	356 - 391	361

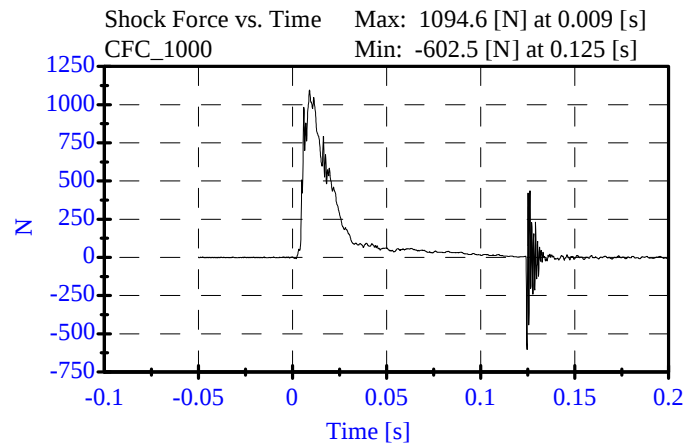
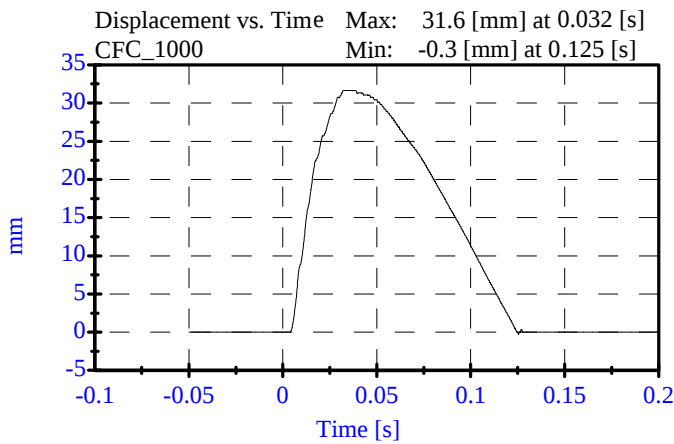
REMARKS: None

Shock Test Low (3.05 m/s)
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: November 24, 2004

Sequential Test Number: 1 File: 905SL 11-24-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Displacement:	30.00-35.00 mm	31.63 mm	Passed
Maximum Force:	836.00-1125.00 N	1094.56 N	Passed
Impact Test Velocity:	3.05 m/s		
Damper Identification:	905		
Damper Setting:	5		

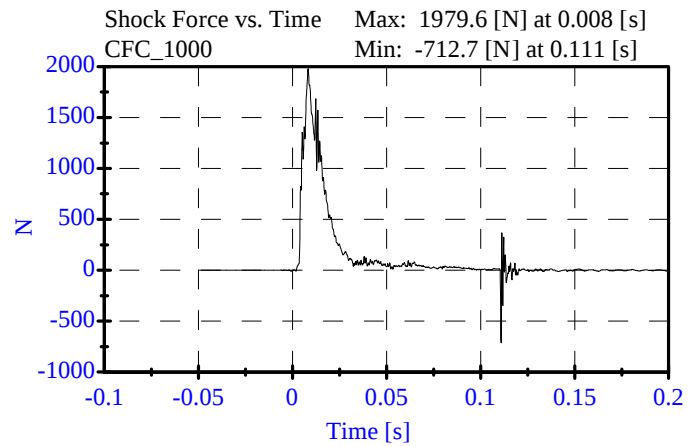
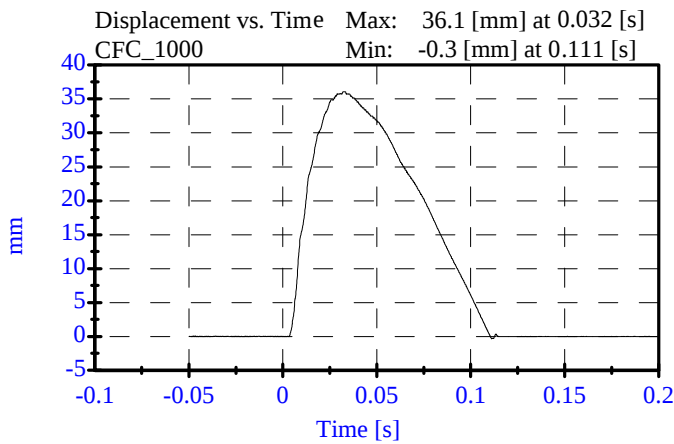


Shock Test Med (4.27 m/s)
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: November 29, 2004

Sequential Test Number: 1 File: 905SM3 11-29-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Displacement:	32.00-37.00 mm	36.07 mm	Passed
Maximum Force:	1730.00-2099.00 N	1979.59 N	Passed
Impact Test Velocity:	4.27 m/s		
Damper Identification:	905		
Damper Setting:	5		

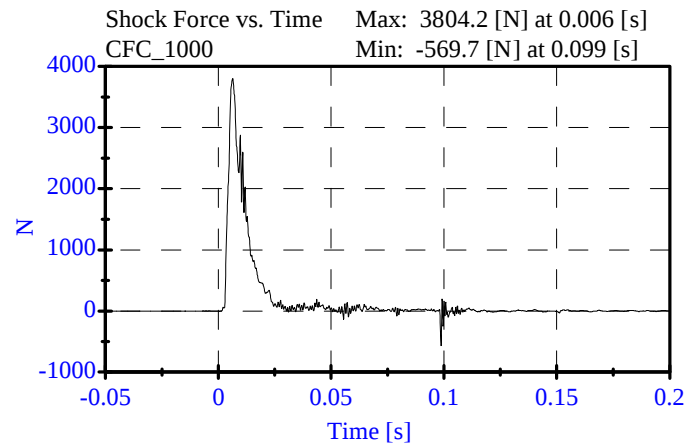
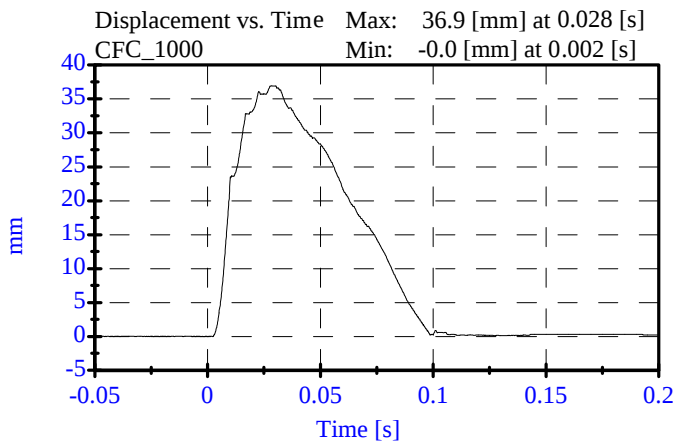


Shock Test High (6.10 m/s)
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: November 29, 2004

Sequential Test Number: 1 File: 905SH 11-29-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Displacement:	33.00-40.00 mm	36.94 mm	Passed
Maximum Force:	3741.00-4448.00 N	3804.21 N	Passed
Impact Test Velocity:	6.10 m/s		
Damper Identification:	905		
Damper Setting:	5		

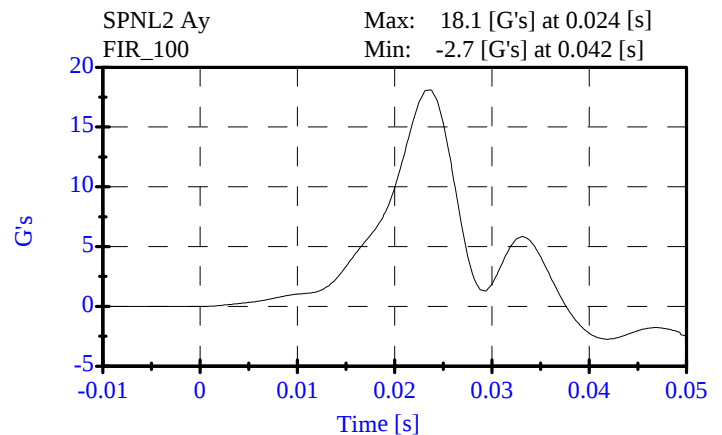
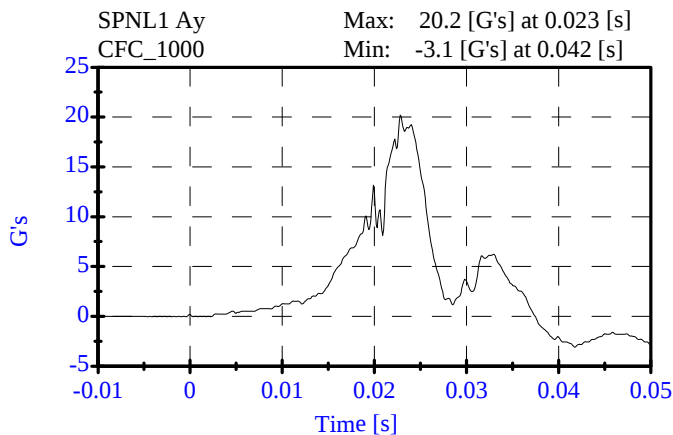
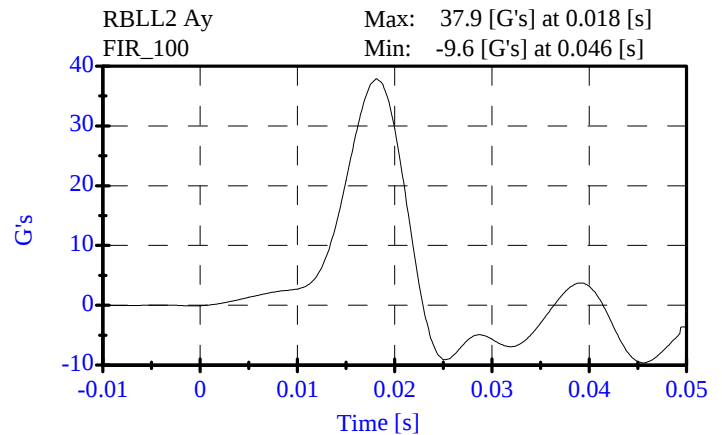
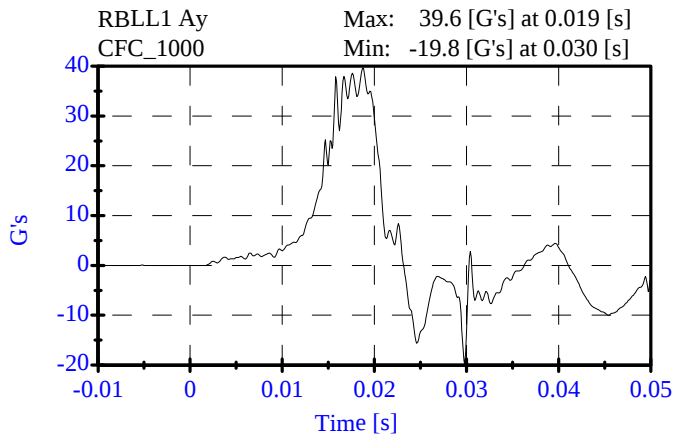
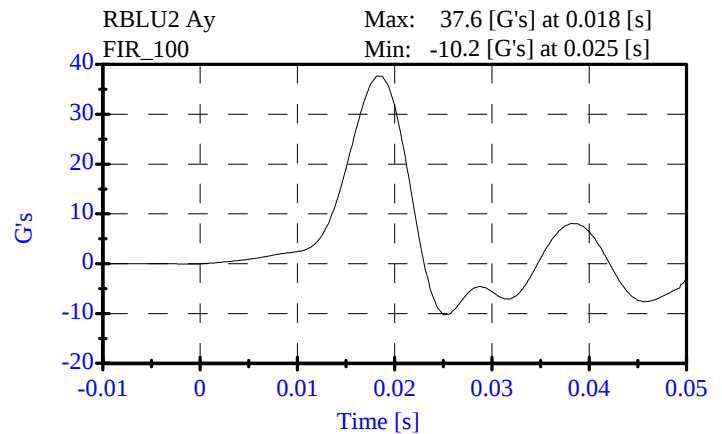
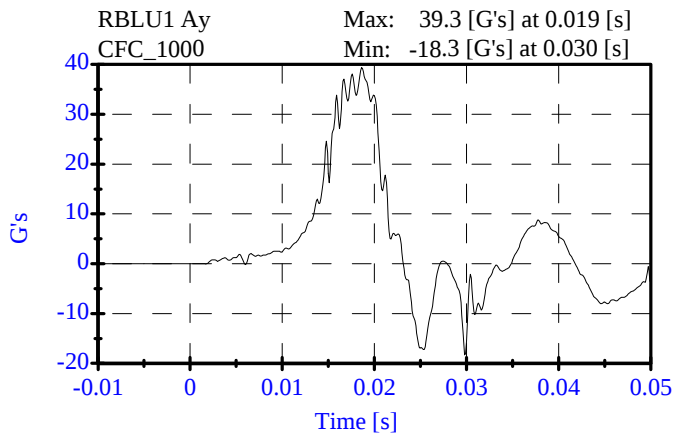


Thorax Impact
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: November 29, 2004

Sequential Test Number: 1 File: 905T1 11-29-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.27 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	37.65 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	37.94 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	18.12 G's	Passed



Pelvic Impact

Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

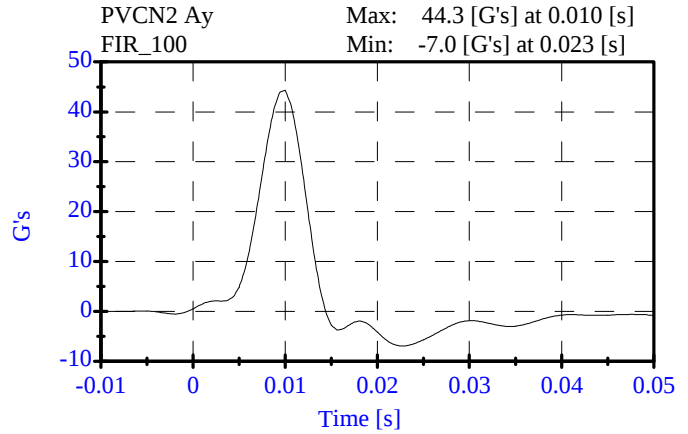
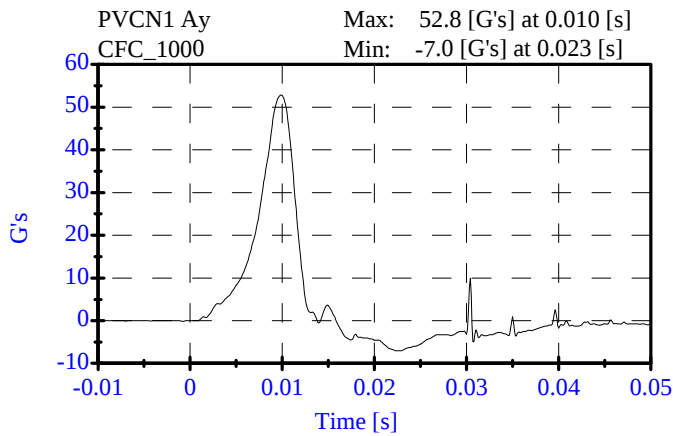
ATD Serial No: 905

Date: November 29, 2004

Sequential Test Number: 1 File: 905P 11-29-04

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.28 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	44.33 G's	Passed
Time Above 20 Gs	3.0-7.0 ms	5.6 ms	Passed



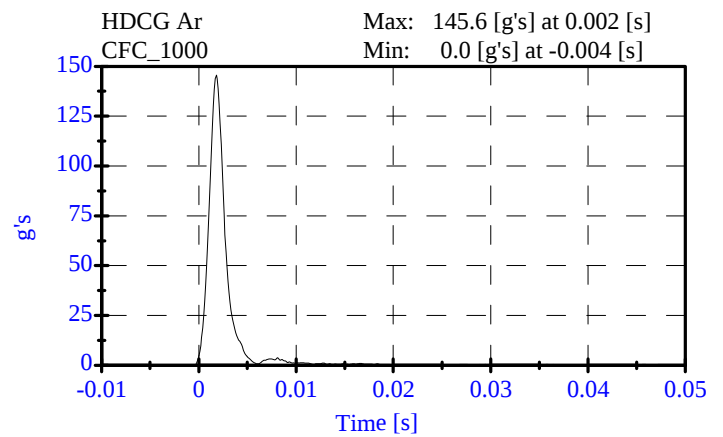
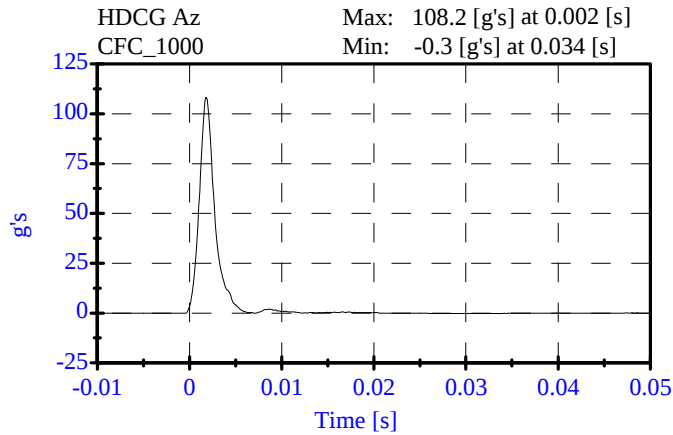
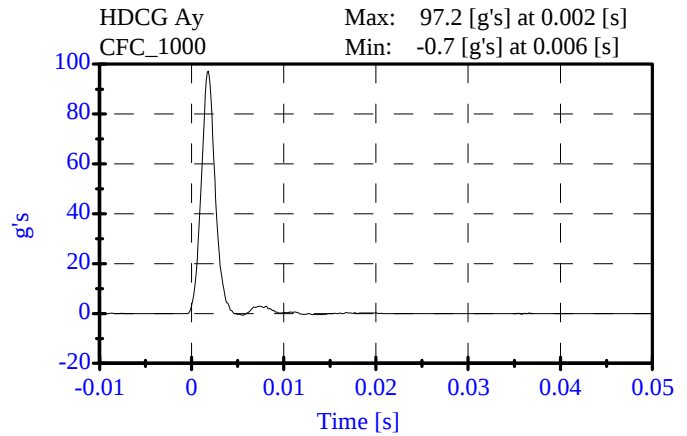
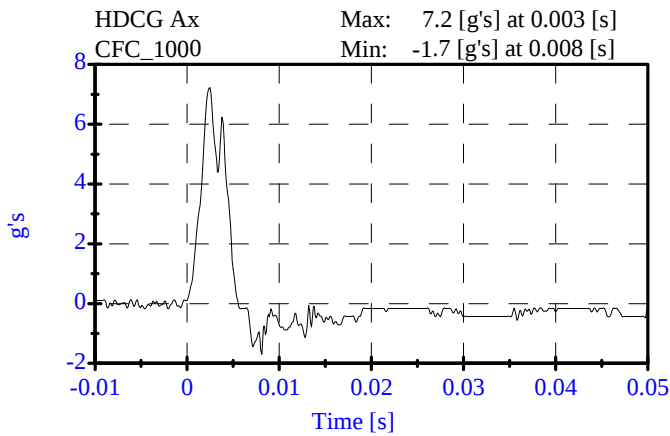
Head Drop **Pre-Test**

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: November 23, 2004

Sequential Test Number: 1 File: 905H1 11-23-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.6 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	145.59 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	7.22 Gs	Passed
Curve PerCent NonModal:	< 15%	2.62 %	Passed



Neck Test**Pre-Test****CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 905
Date: November 24, 2004

Sequential Test Number: 1 File: 905N3 11-24-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	34.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	6.95 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.01 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.21 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.04 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.00 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	66.0-82.0 Deg	71.26 Deg	Passed
Rotation Angle Decay:	58.0-67.0 ms	58.80 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	73.00- 88.00 N-m	86.87 N-m	Passed
Occipital Moment Decay:	49.0-64.0 ms	53.80 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	2.0-16.0 ms	9.10 ms	Passed

Neck Test
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

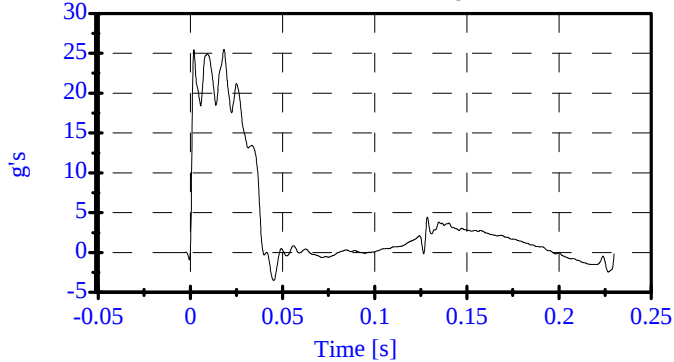
ATD Serial No: 905

Date: November 24, 2004

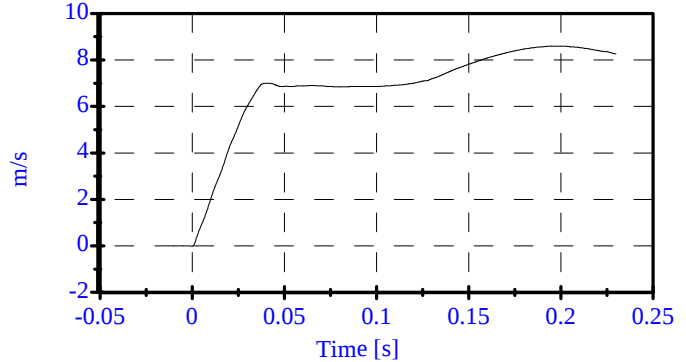
Sequential Test Number: 1 File: 905N3 11-24-04

Laboratory Technician: B. Swiecicki

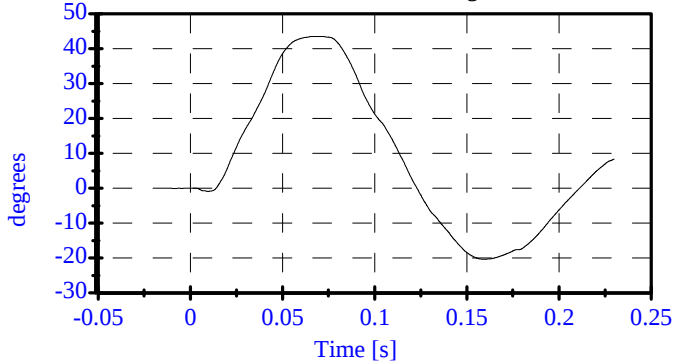
Pend Ax
CFC_180
Max: 25.5 [g's] at 0.018 [s]
Min: -3.5 [g's] at 0.045 [s]



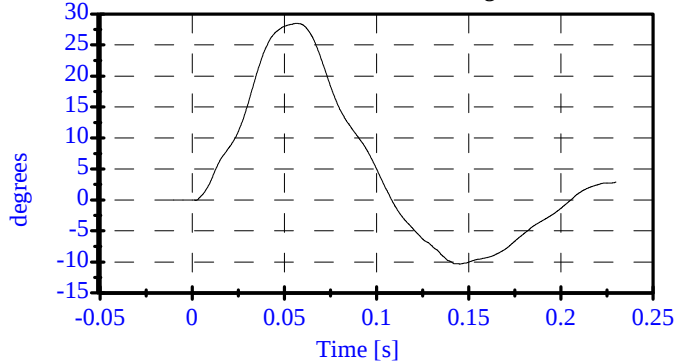
Pend Vx
CFC_180
Max: 8.6 [m/s] at 0.197 [s]
Min: -0.0 [m/s] at 0.000 [s]



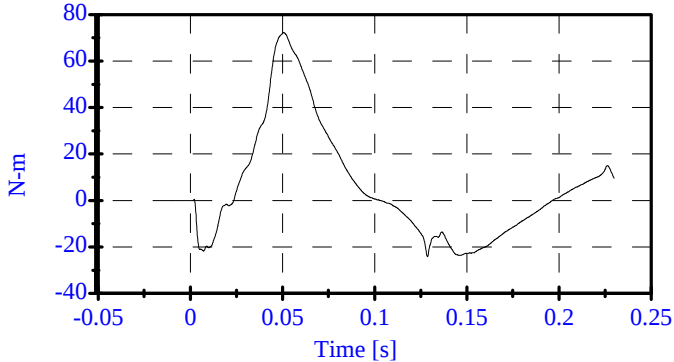
Head Rot
CFC_180
Max: 43.6 [degrees] at 0.070 [s]
Min: -20.3 [degrees] at 0.159 [s]



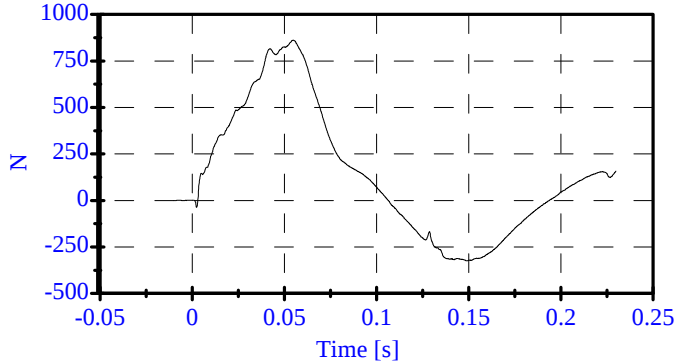
Arm Rot
CFC_180
Max: 28.5 [degrees] at 0.056 [s]
Min: -10.3 [degrees] at 0.145 [s]



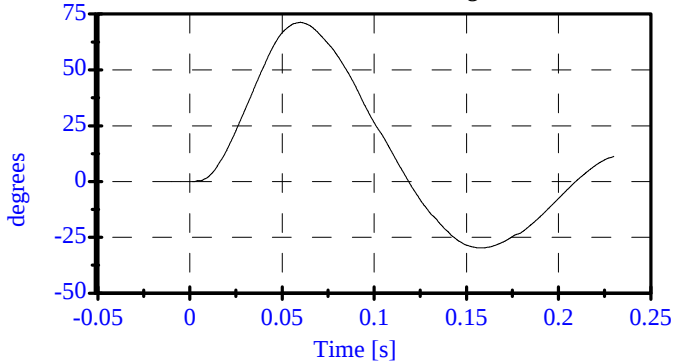
Neck Mx
CFC_600
Max: 72.2 [N-m] at 0.051 [s]
Min: -24.2 [N-m] at 0.129 [s]



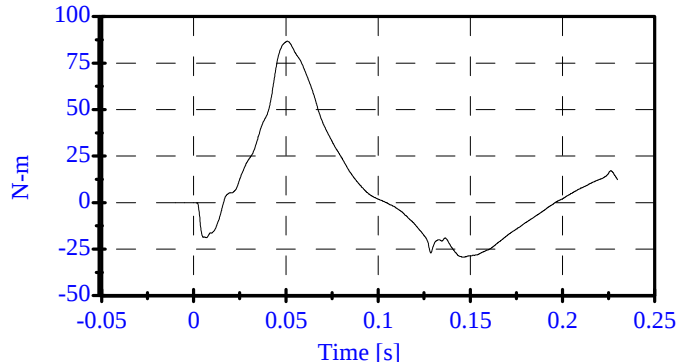
Neck Fy
CFC_1000
Max: 860.8 [N] at 0.055 [s]
Min: -324.6 [N] at 0.149 [s]



Tot Rot
CFC_180
Max: 71.3 [degrees] at 0.060 [s]
Min: -29.7 [degrees] at 0.159 [s]



MOCX
Max: 86.9 [N-m] at 0.051 [s]
Min: -29.3 [N-m] at 0.147 [s]



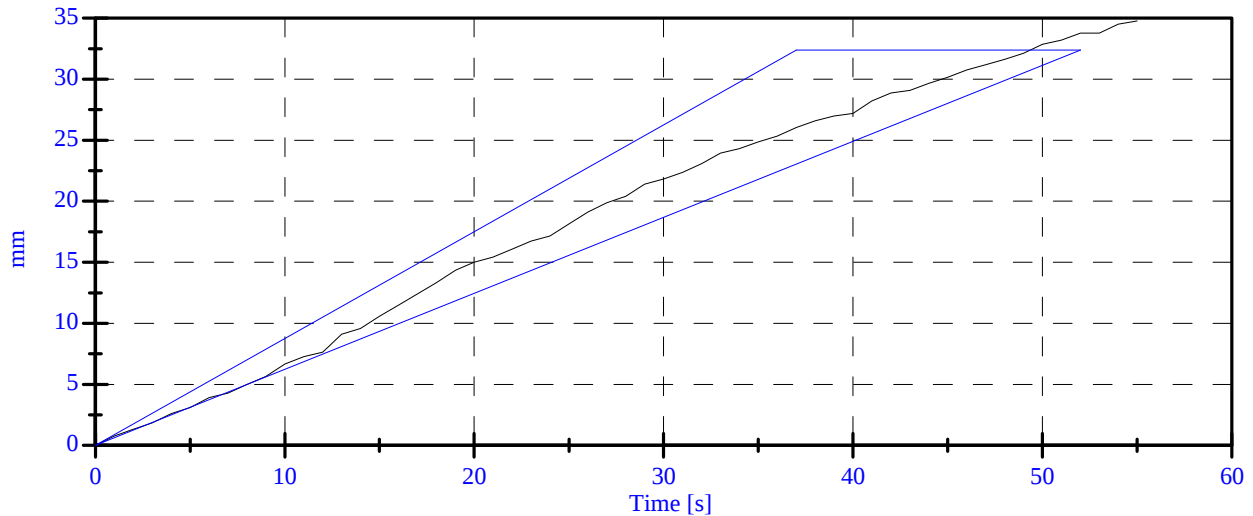
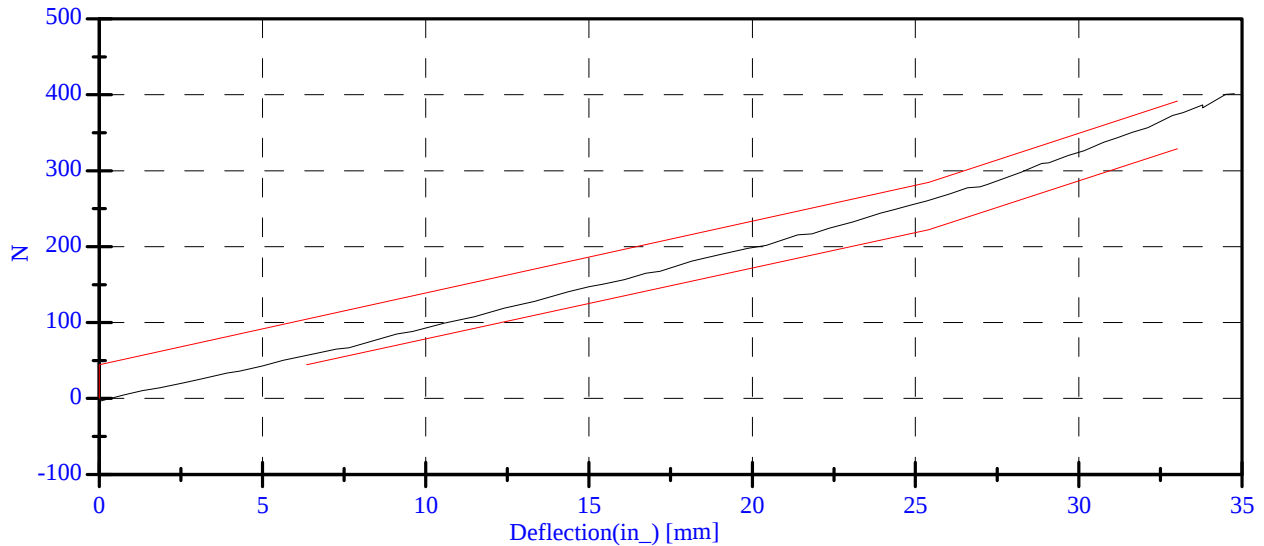
Abdomen Test
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: November 29, 2004

Sequential Test Number: 1 File: 905AB 11-29-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Force at 12.95 mm :	104.00-162.00 N	128.01 N	Passed
Force at 19.05 mm :	162.98-220.99 N	190.51 N	Passed
Force at 25.40 mm :	221.97-280.02 N	260.33 N	Passed
Force at 33.02 mm :	324.99-391.00 N	372.91 N	Passed

ABDOMINAL COMPRESSION TEST



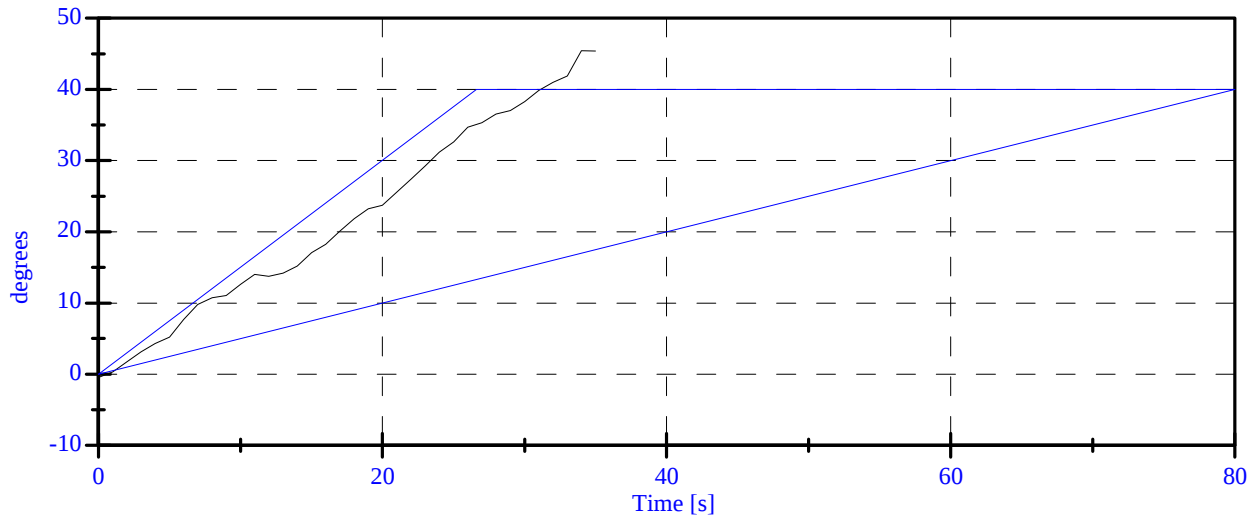
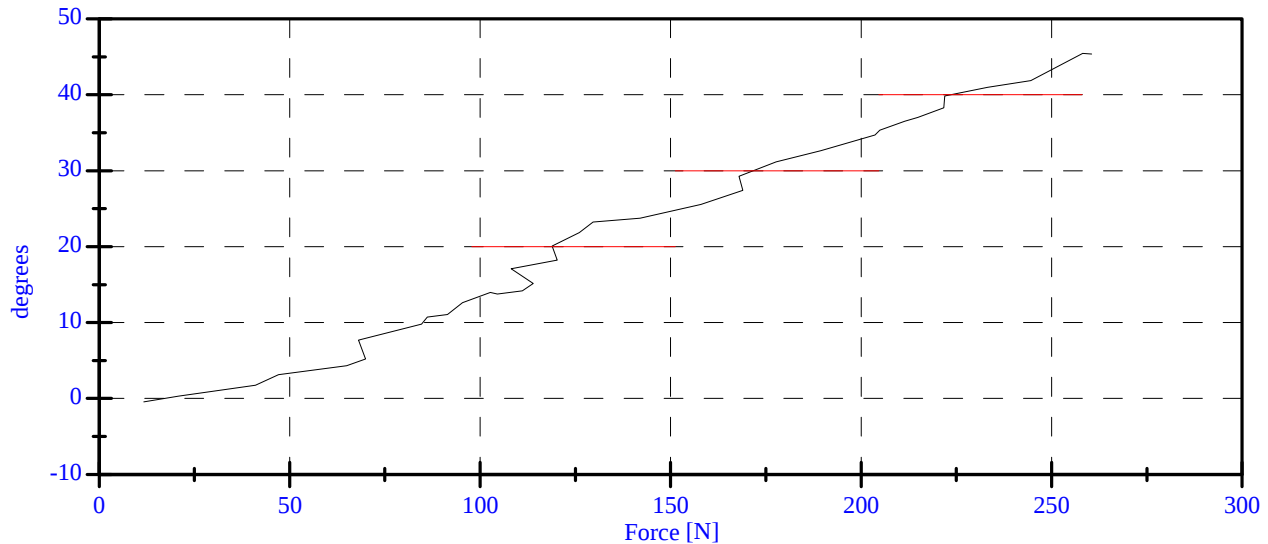
Lumbar Spine Test
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: November 29, 2004

Sequential Test Number: 1 File: 905SPINE 11-29-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Force at 0 Deg:	0.00-26.69 N	20.85 N	Passed
Force at 20 Deg:	97.86-151.24 N	118.92 N	Passed
Force at 30 Deg	151.24-204.62 N	167.95 N	Passed
Force at 40 Deg	204.62-258.00 N	221.97 N	Passed
Return Angle	12 Deg Max	1.02 deg	Passed

LUMBAR SPINE FLEXION TEST



PRE-TEST DUMMY INSPECTION LIST

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 905 Sequential Test Number: 1
Date: November 29, 2004 Laboratory Technician: B. Swiecicki

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

CALIBRATION TEST RESULTS

PRE-TEST

SID H3 NO.: 906

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 906 Sequential Test Number: 1
Date: November 29, 2004 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
THORACIC SHOCK ABSORBER TEST	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 906 Sequential Test Number: 1
Date: November 29, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	908
RH- Rib Height (mm)	502 - 520	514
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	231
KH- Knee Pivot from Back Line (mm)	511 - 526	514
KV- Knee Pivot to Floor (mm)	490 - 505	493
HW- Hip Width (mm)	356 - 391	378

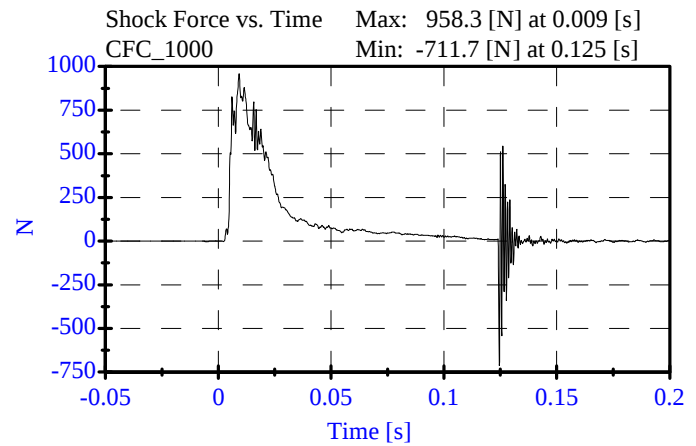
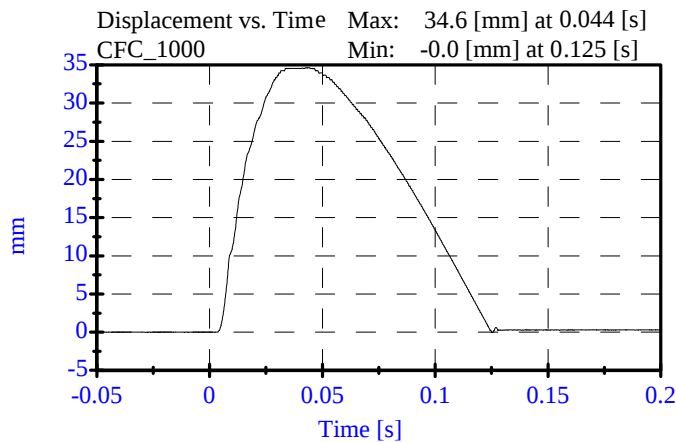
REMARKS: None

Shock Test Low (3.05 m/s)
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: November 29, 2004

Sequential Test Number: 1 File: 906SL3 11-29-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Displacement:	30.00-35.00 mm	34.61 mm	Passed
Maximum Force:	836.00-1125.00 N	958.28 N	Passed
Impact Test Velocity:	3.05 m/s		
Damper Identification:	906		
Damper Setting:	5		

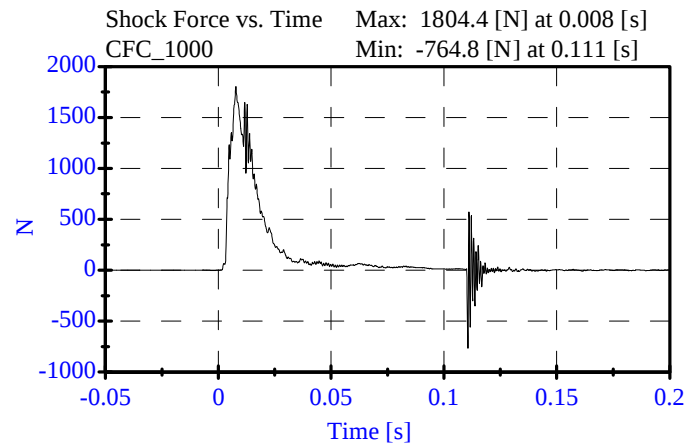
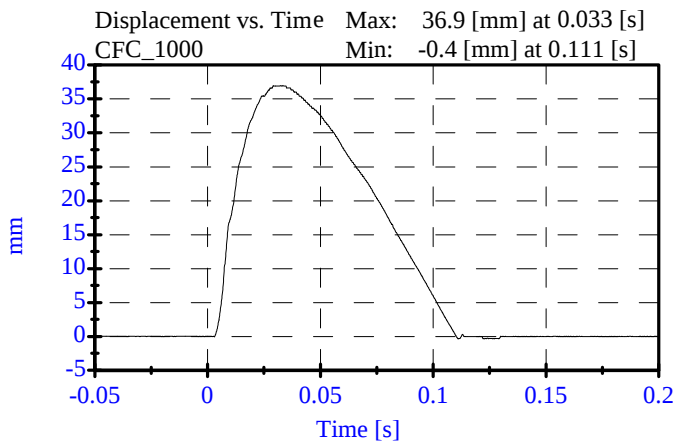


Shock Test Med (4.27 m/s)
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: November 29, 2004

Sequential Test Number: 1 File: 906SM 11-29-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Displacement:	32.00-37.00 mm	36.94 mm	Passed
Maximum Force:	1730.00-2099.00 N	1804.42 N	Passed
Impact Test Velocity:	4.27 m/s		
Damper Identification:	906		
Damper Setting:	5		

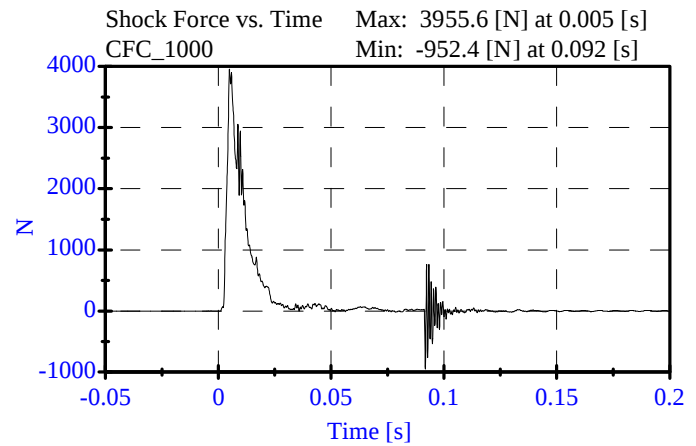
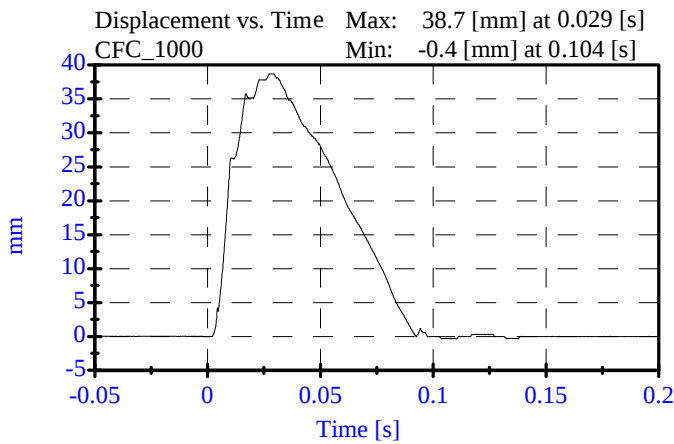


Shock Test High (6.10 m/s)
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: November 29, 2004

Sequential Test Number: 1 File: 906SH1 11-29-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Displacement:	33.00-40.00 mm	38.71 mm	Passed
Maximum Force:	3741.00-4448.00 N	3955.63 N	Passed
Impact Test Velocity:	6.10 m/s		
Damper Identification:	906		
Damper Setting:	5		

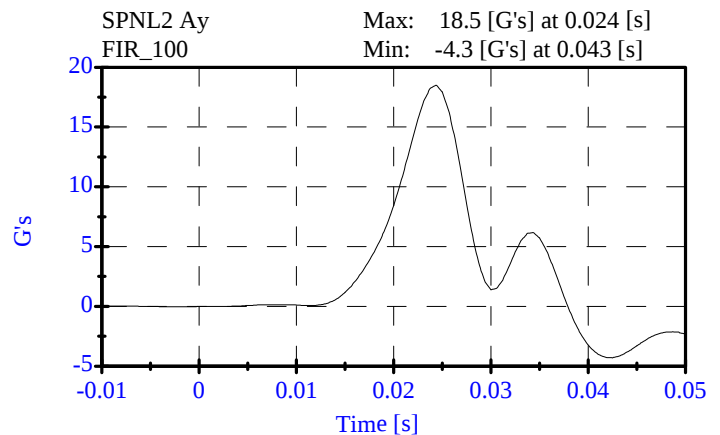
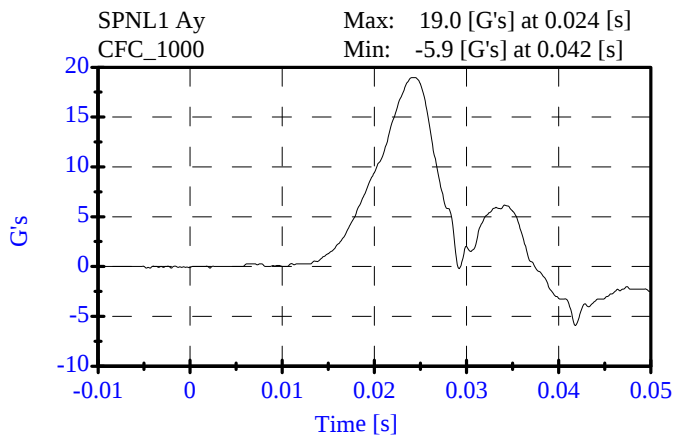
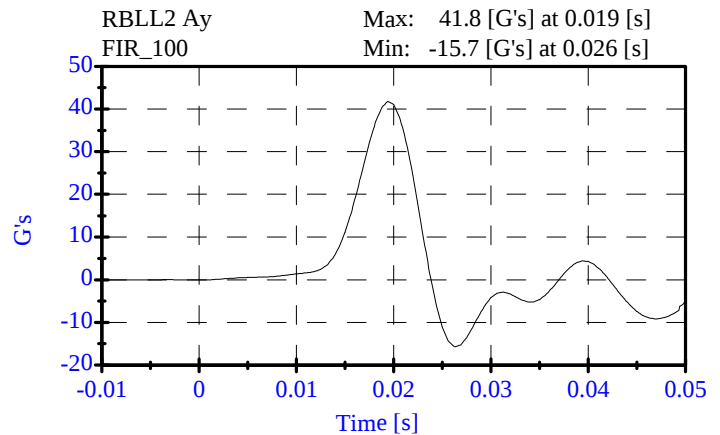
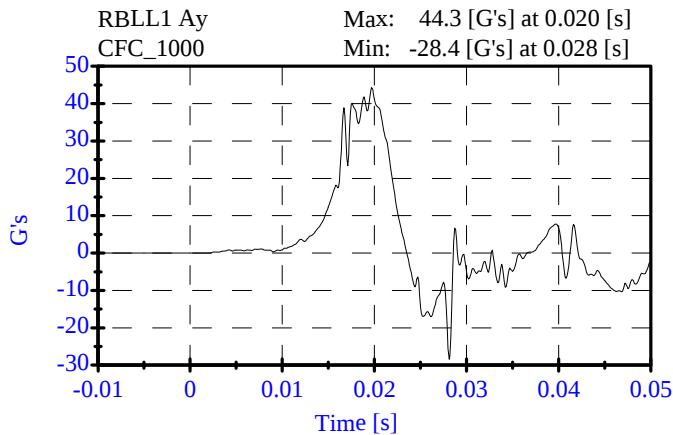
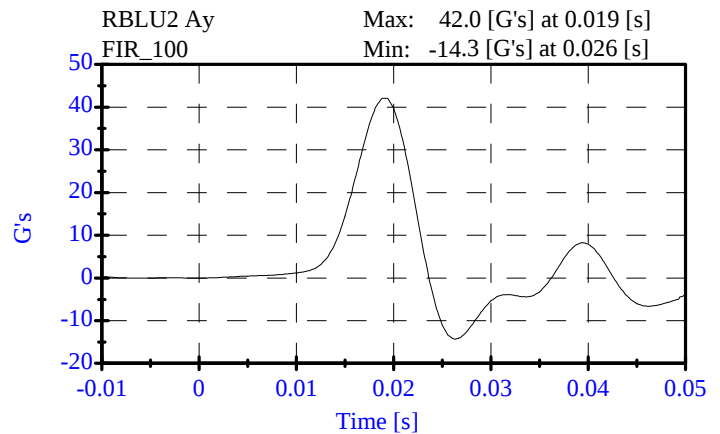
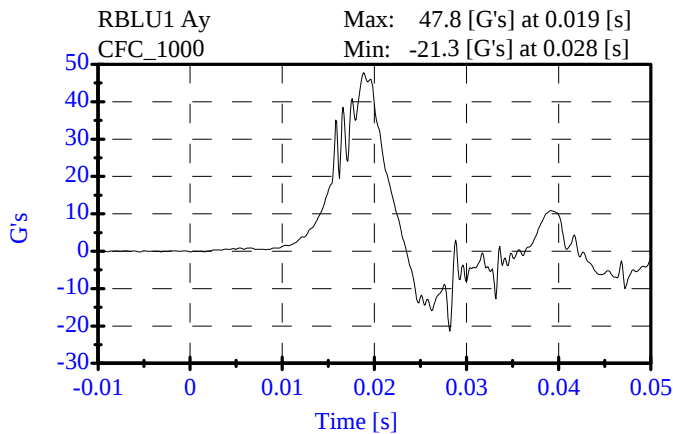


Thorax Impact
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: November 29, 2004

Sequential Test Number: 1 File: 906T 11-29-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.27 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	42.04 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	41.76 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	18.50 G's	Passed



Pelvic Impact

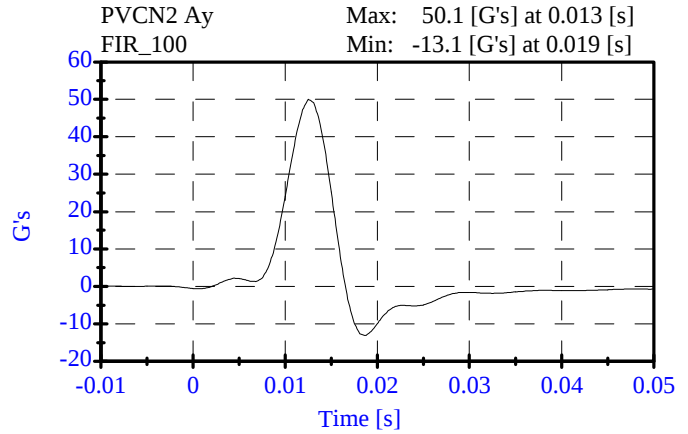
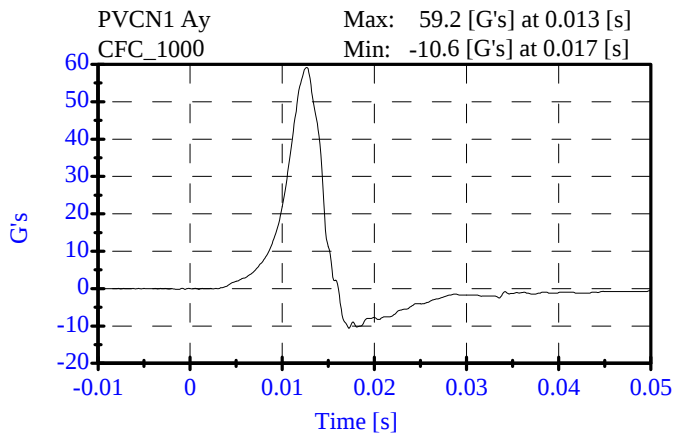
Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: November 29, 2004

Sequential Test Number: 1 File: 906P 11-29-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.27 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	50.06 G's	Passed
Time Above 20 Gs	3.0-7.0 ms	5.6 ms	Passed



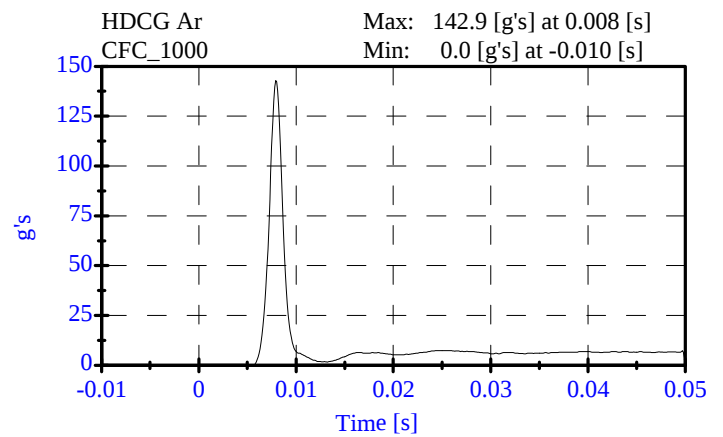
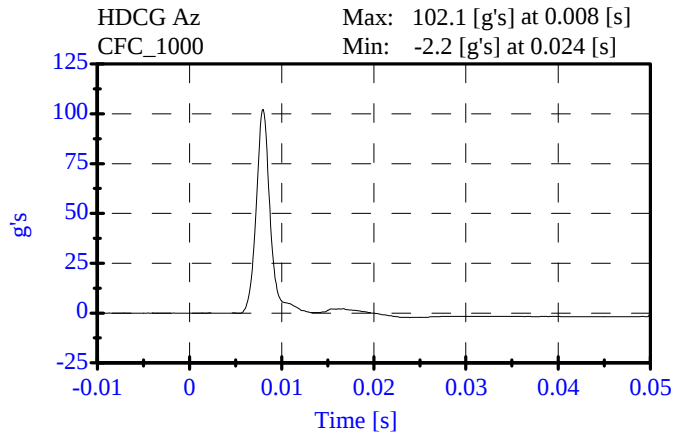
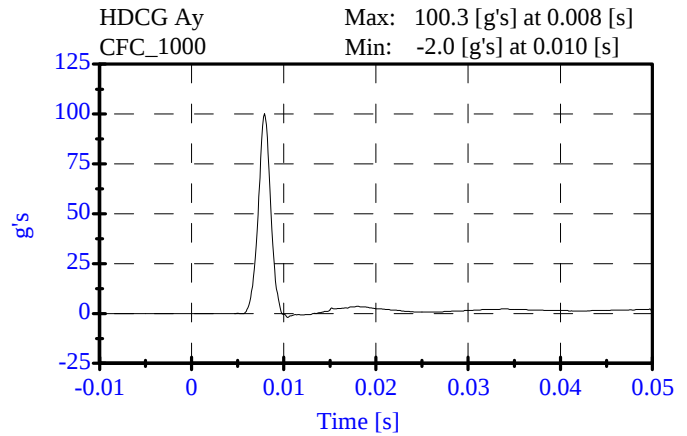
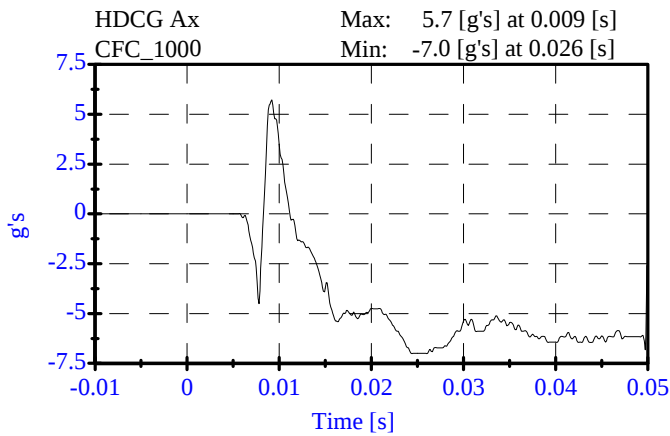
Head Drop Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: November 23, 2004

Sequential Test Number: 1 File: 906H 11-23-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.6 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	142.89 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	5.71 Gs	Passed
Curve PerCent NonModal:	< 15%	5.19 %	Passed



Neck Test**Pre-Test****CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 906
Date: November 24, 2004

Sequential Test Number: 1 File: 906N8 11-24-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	6.99 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.04 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.19 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	5.96 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.06 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	66.0-82.0 Deg	72.70 Deg	Passed
Rotation Angle Decay:	58.0-67.0 ms	58.00 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	73.00- 88.00 N-m	84.58 N-m	Passed
Occipital Moment Decay:	49.0-64.0 ms	51.10 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	2.0-16.0 ms	7.40 ms	Passed

Neck Test
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

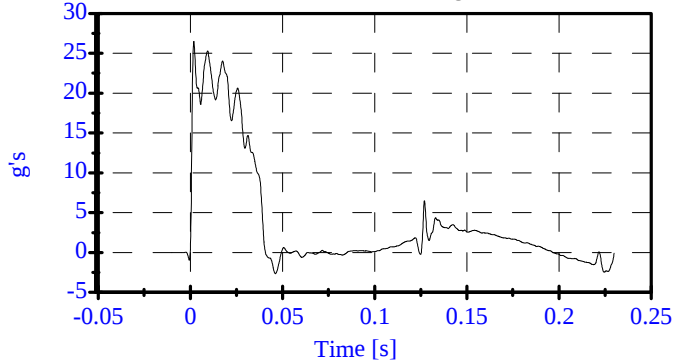
ATD Serial No: 906

Date: November 24, 2004

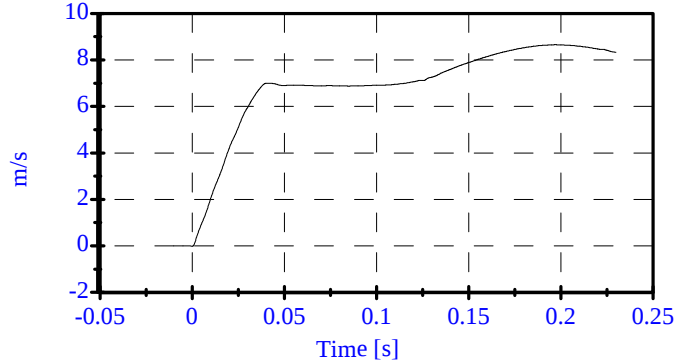
Sequential Test Number: 1 File: 906N8 11-24-04

Laboratory Technician: B. Swiecicki

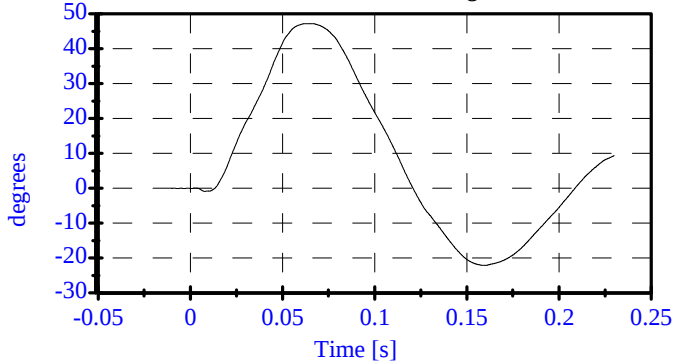
Pend Ax
CFC_180
Max: 26.5 [g's] at 0.002 [s]
Min: -2.6 [g's] at 0.046 [s]



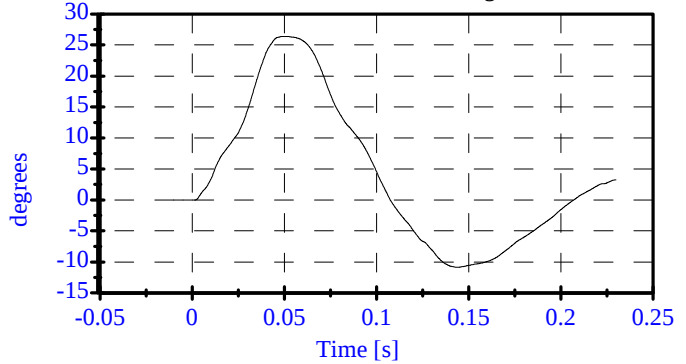
Pend Vx
CFC_180
Max: 8.7 [m/s] at 0.197 [s]
Min: -0.0 [m/s] at -0.000 [s]



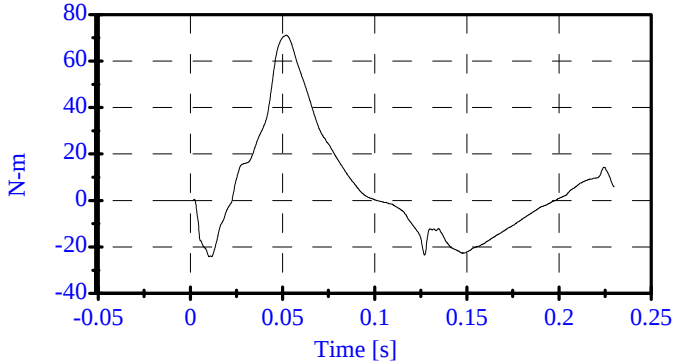
Head Rot
CFC_180
Max: 47.2 [degrees] at 0.065 [s]
Min: -22.1 [degrees] at 0.159 [s]



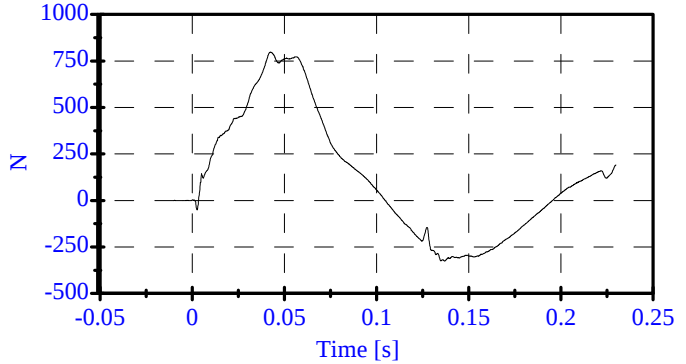
Arm Rot
CFC_180
Max: 26.4 [degrees] at 0.050 [s]
Min: -10.8 [degrees] at 0.144 [s]



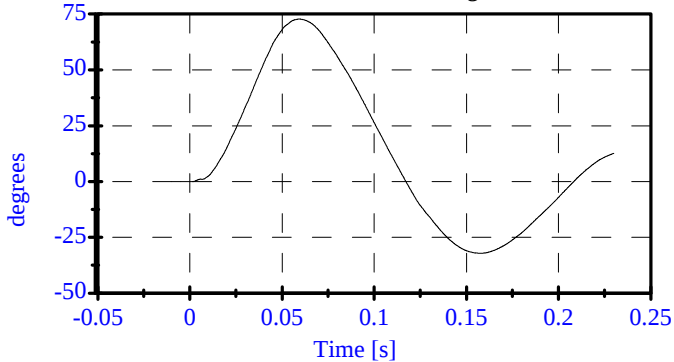
Neck Mx
CFC_600
Max: 71.0 [N-m] at 0.052 [s]
Min: -24.2 [N-m] at 0.010 [s]



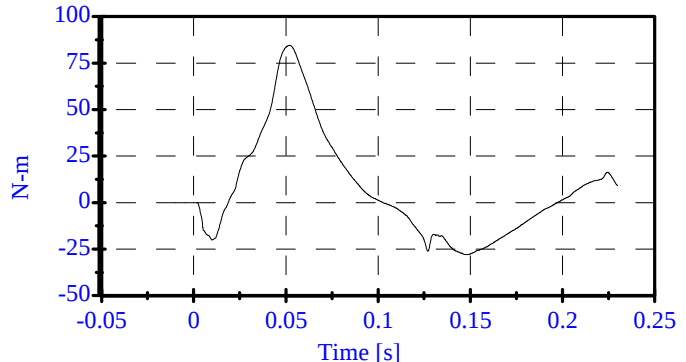
Neck Fy
CFC_1000
Max: 798.0 [N] at 0.042 [s]
Min: -325.6 [N] at 0.137 [s]



Tot Rot
CFC_180
Max: 72.7 [degrees] at 0.059 [s]
Min: -32.1 [degrees] at 0.158 [s]



MOCX
Max: 84.6 [N-m] at 0.052 [s]
Min: -28.0 [N-m] at 0.147 [s]



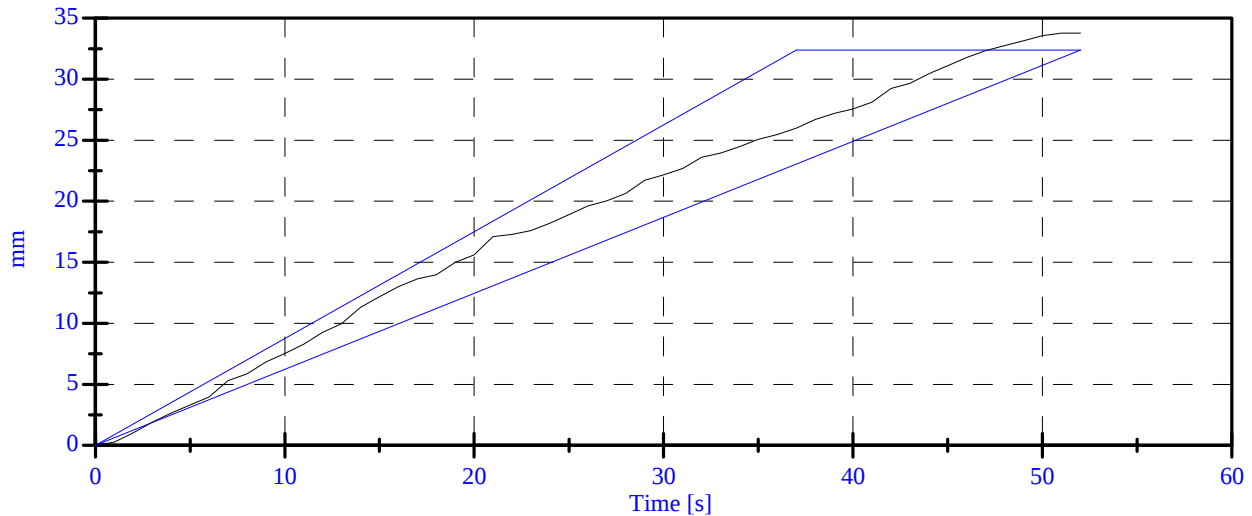
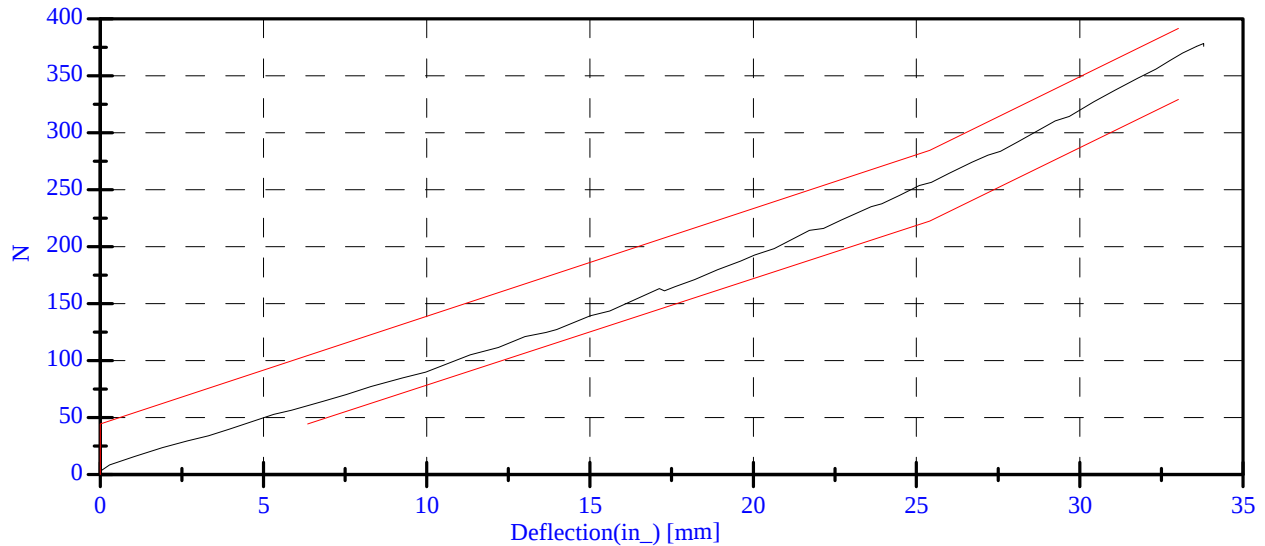
Abdomen Test
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: November 29, 2004

Sequential Test Number: 1 File: 906AB 11-29-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Force at 12.95 mm :	104.00-162.00 N	121.06 N	Passed
Force at 19.05 mm :	162.98-220.99 N	179.91 N	Passed
Force at 25.40 mm :	221.97-280.02 N	256.31 N	Passed
Force at 33.02 mm :	324.99-391.00 N	369.99 N	Passed

ABDOMINAL COMPRESSION TEST



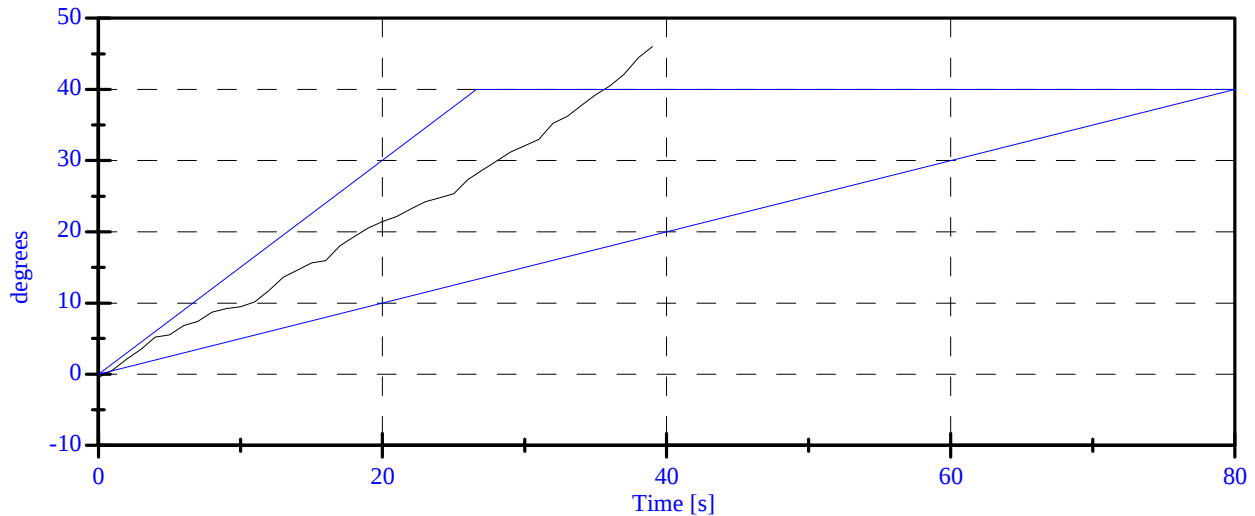
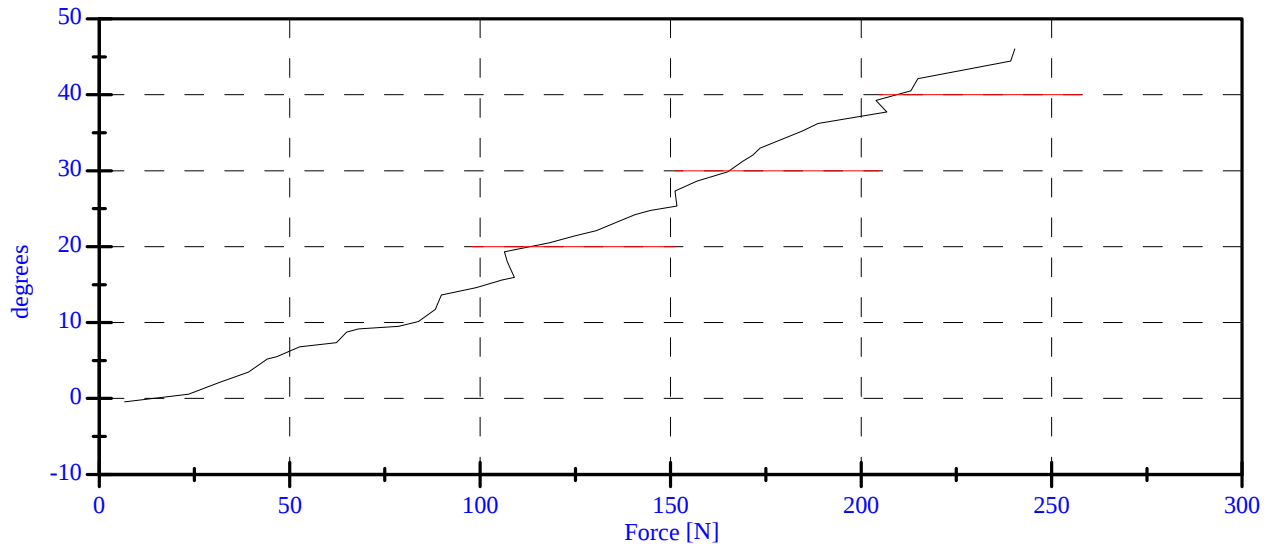
Lumbar Spine Test
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: November 29, 2004

Sequential Test Number: 1 File: 906SPINE 11-29-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Force at 0 Deg:	0.00-26.69 N	6.69 N	Passed
Force at 20 Deg:	97.86-151.24 N	118.13 N	Passed
Force at 30 Deg	151.24-204.62 N	165.07 N	Passed
Force at 40 Deg	204.62-258.00 N	213.05 N	Passed
Return Angle	12 Deg Max	6.22 deg	Passed

LUMBAR SPINE FLEXION TEST



PRE-TEST DUMMY INSPECTION LIST

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 906 Sequential Test Number: 1
Date: November 29, 2004 Laboratory Technician: B. Swiecicki

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

CALIBRATION TEST RESULTS

POST TEST

SID H3 NO.: 905

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 905 Sequential Test Number: 2
Date: December 23, 2004 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 905 Sequential Test Number: 2
Date: December 23, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	909
RH- Rib Height (mm)	502 - 520	520
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	241
KH- Knee Pivot from Back Line (mm)	511 - 526	521
KV- Knee Pivot to Floor (mm)	490 - 505	493
HW- Hip Width (mm)	356 - 391	361

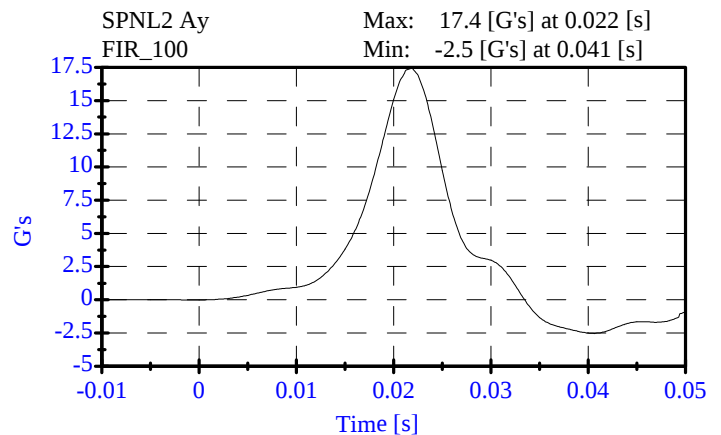
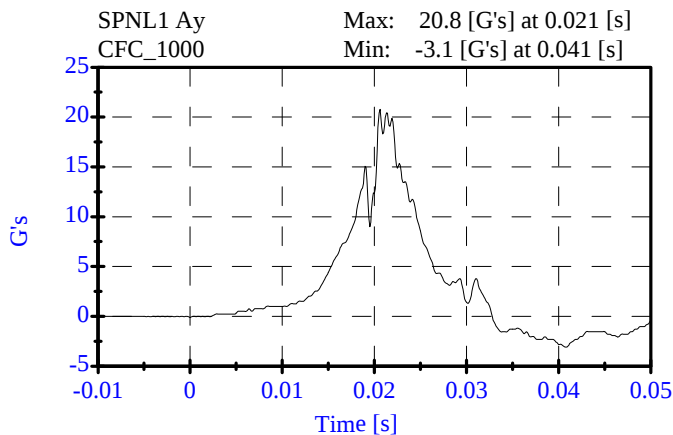
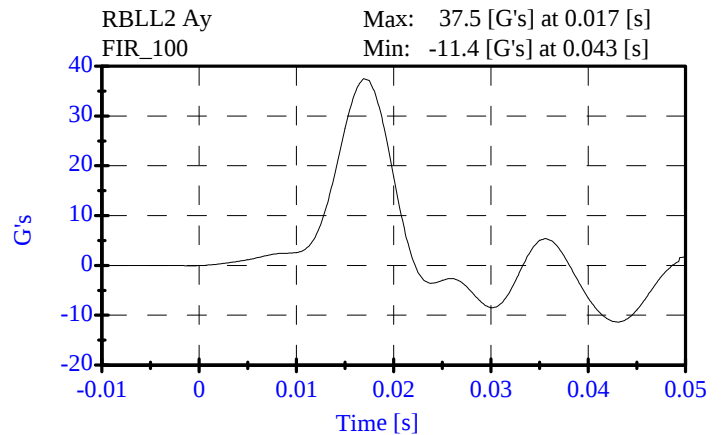
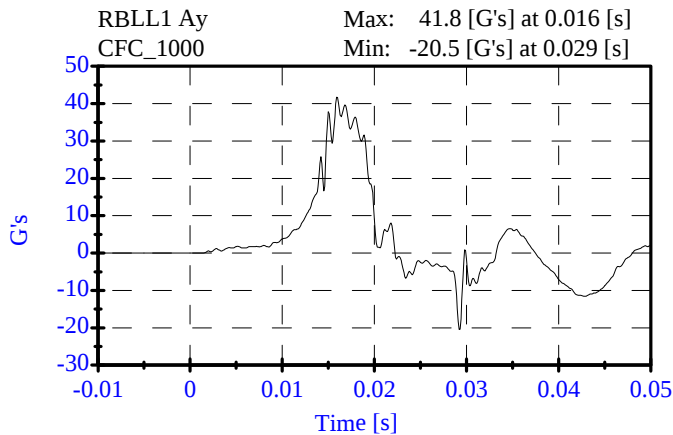
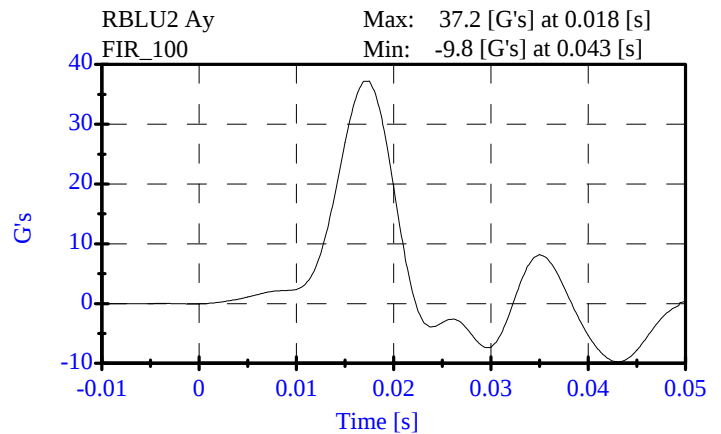
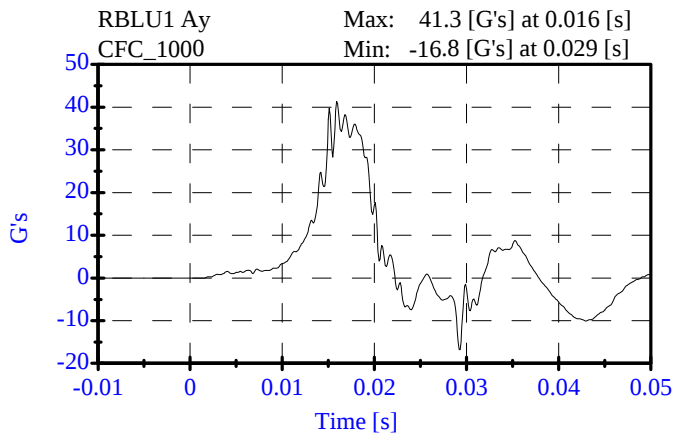
REMARKS: None

Thorax Impact
Post-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: December 23, 2004

Sequential Test Number: 1 File: 905T 12-23-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	38.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.27 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	37.20 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	37.53 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	17.44 G's	Passed



Pelvic Impact

Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

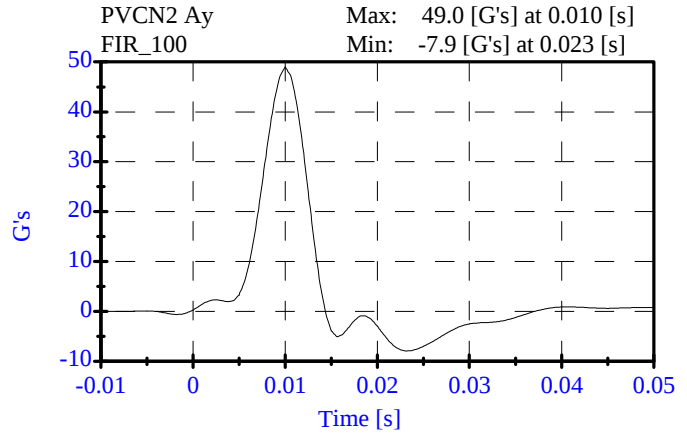
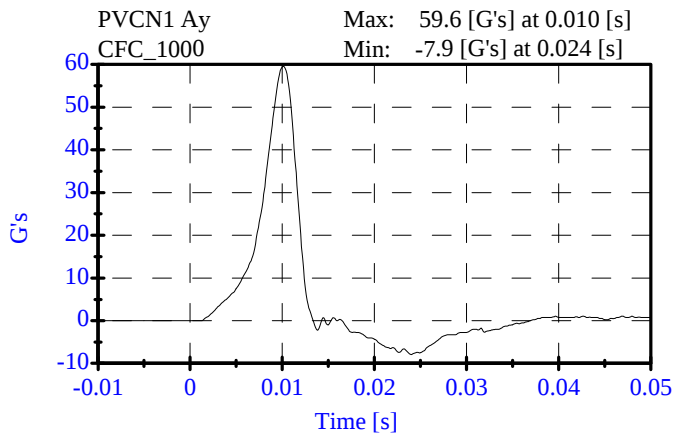
ATD Serial No: 905

Date: December 24, 2004

Sequential Test Number: 1 File: 905P 12-23-04

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.27 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	48.99 G's	Passed
Time Above 20 Gs	3.0-7.0 ms	5.7 ms	Passed



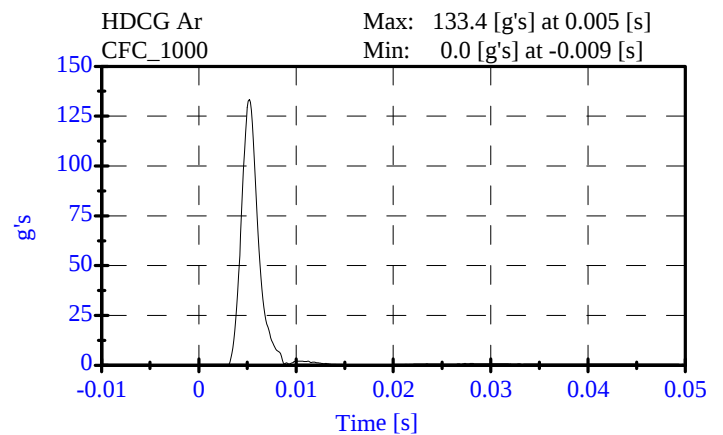
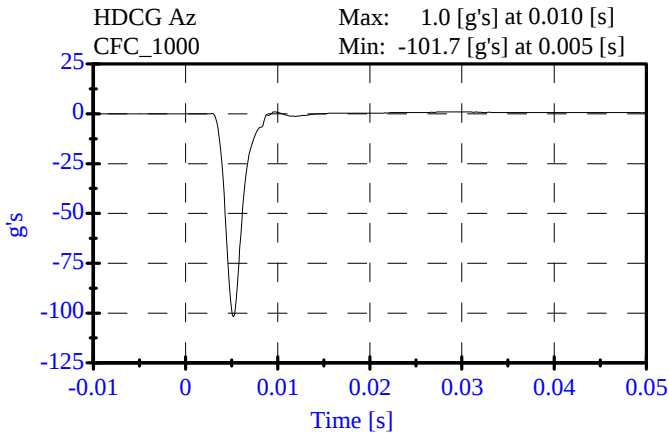
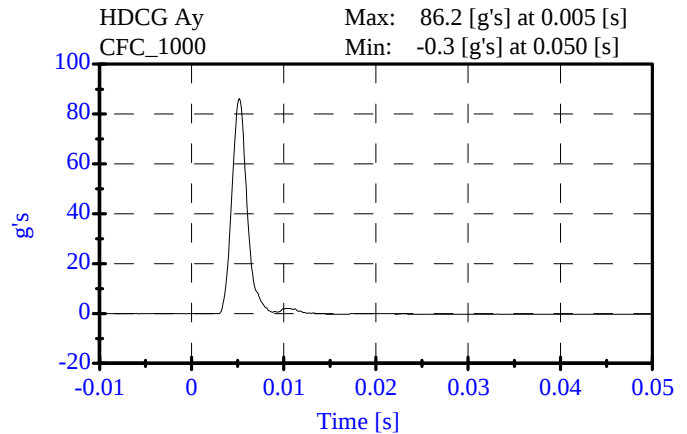
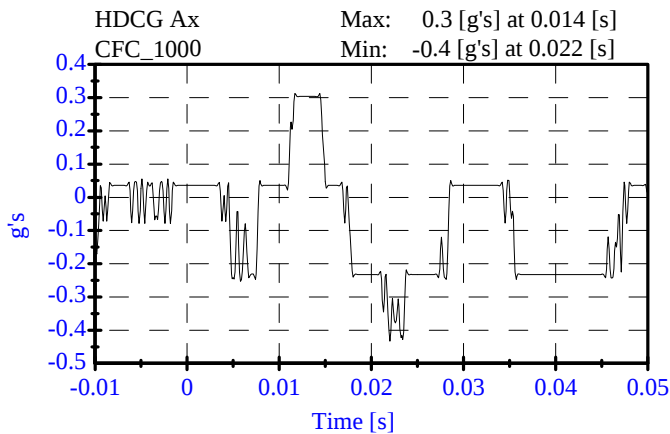
Head Drop **Post-Test**

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: December 6, 2004

Sequential Test Number: 1 File: 905H 12-06-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.6 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	133.35 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	0.31 Gs	Passed
Curve PerCent NonModal:	< 15%	1.59 %	Passed



Neck Test**Post-Test****CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 905
Date: December 21, 2004

Sequential Test Number: 1 File: 905N2 12-21-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	39.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	7.01 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.26 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.65 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.65 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.21 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	66.0-82.0 Deg	68.33 Deg	Passed
Rotation Angle Decay:	58.0-67.0 ms	58.50 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	73.00- 88.00 N-m	87.32 N-m	Passed
Occipital Moment Decay:	49.0-64.0 ms	56.00 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	2.0-16.0 ms	12.40 ms	Passed

Neck Test
Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

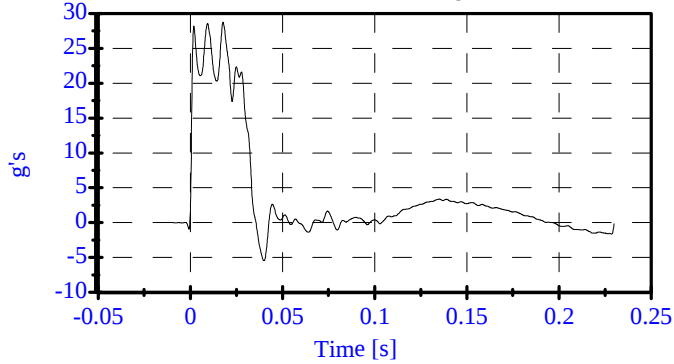
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Date: December 21, 2004

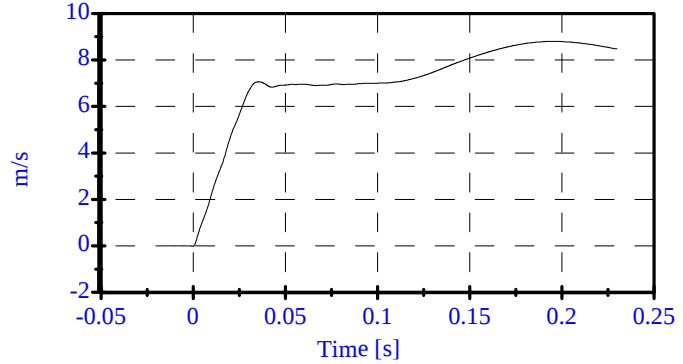
Sequential Test Number: 1 File: 905N2 12-21-04

Laboratory Technician: B. Swiecicki

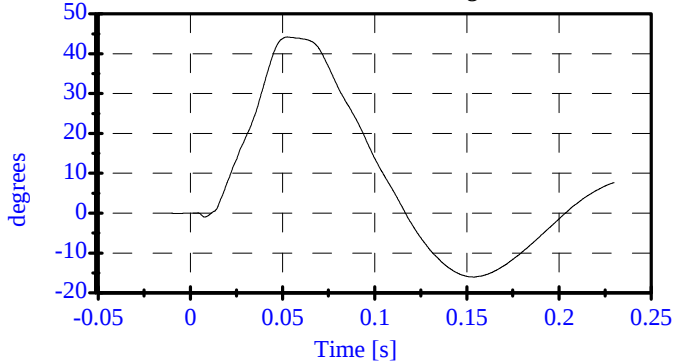
Pend Ax
CFC_180
Max: 28.8 [g's] at 0.018 [s]
Min: -5.4 [g's] at 0.040 [s]



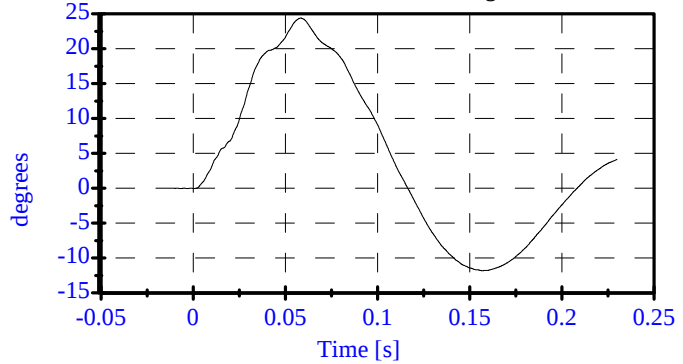
Pend Vx
CFC_180
Max: 8.8 [m/s] at 0.197 [s]
Min: -0.0 [m/s] at -0.000 [s]



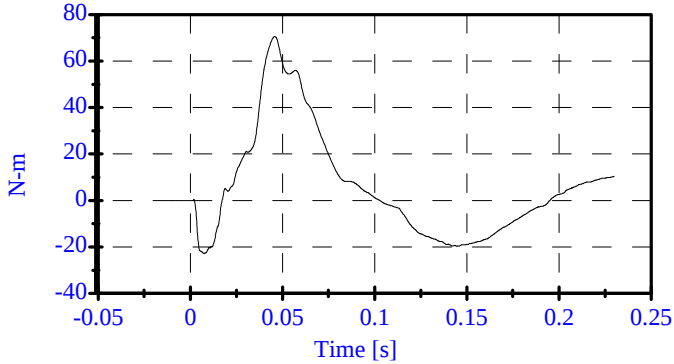
Head Rot
CFC_180
Max: 44.3 [degrees] at 0.053 [s]
Min: -16.0 [degrees] at 0.154 [s]



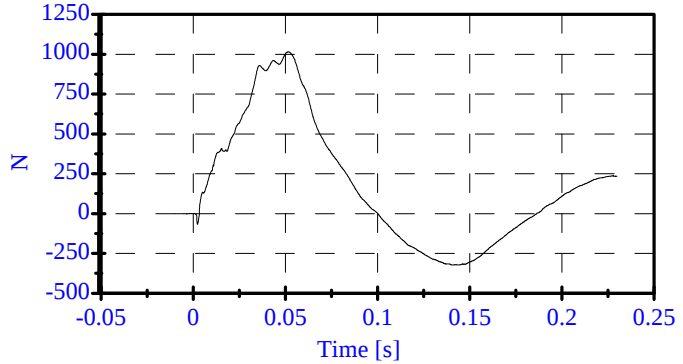
Arm Rot
CFC_180
Max: 24.4 [degrees] at 0.058 [s]
Min: -11.8 [degrees] at 0.157 [s]



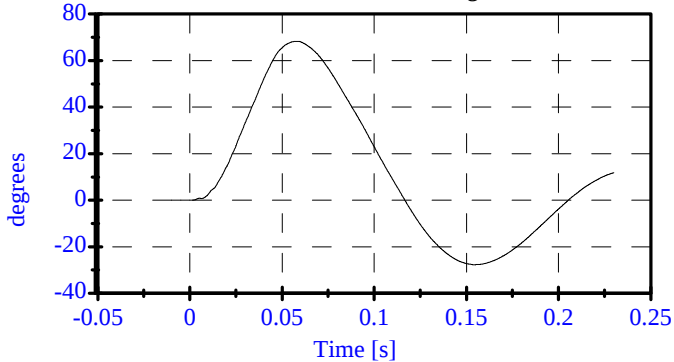
Neck Mx
CFC_600
Max: 70.6 [N-m] at 0.046 [s]
Min: -22.8 [N-m] at 0.007 [s]



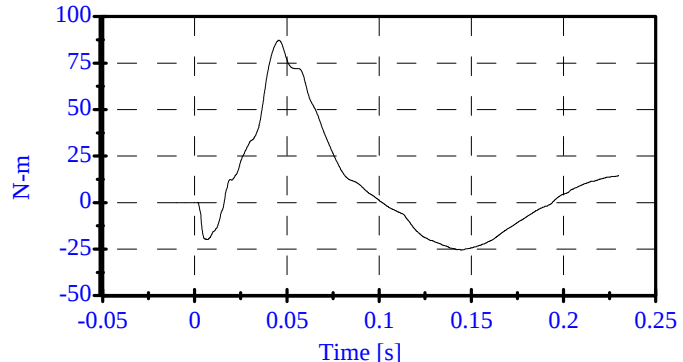
Neck Fy
CFC_1000
Max: 1015.3 [N] at 0.051 [s]
Min: -322.4 [N] at 0.143 [s]



Tot Rot
CFC_180
Max: 68.3 [degrees] at 0.058 [s]
Min: -27.7 [degrees] at 0.154 [s]



MOCX
Max: 87.3 [N-m] at 0.046 [s]
Min: -25.4 [N-m] at 0.144 [s]



Abdomen Test

Post-Test

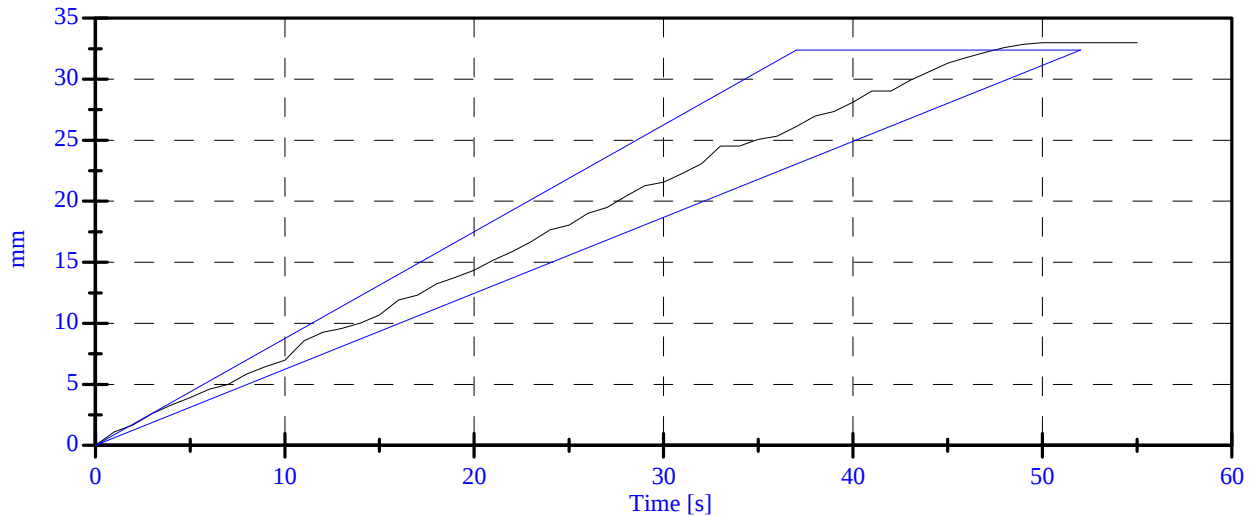
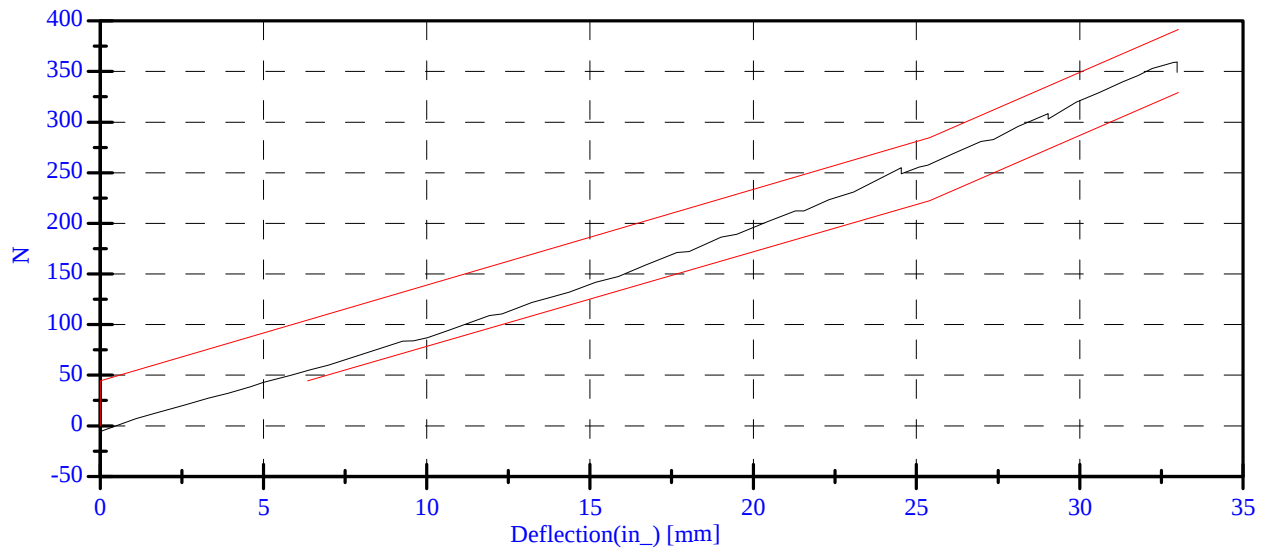
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905
Date: December 24, 2004

Sequential Test Number: 1 File: 905Ab 12-23-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Force at 12.95 mm :	104.00-162.00 N	121.79 N	Passed
Force at 19.05 mm :	162.98-220.99 N	186.49 N	Passed
Force at 25.40 mm :	221.97-280.02 N	257.41 N	Passed
Force at 33.02 mm :	324.99-391.00 N	359.39 N	Passed

ABDOMINAL COMPRESSION TEST



Lumbar Spine

Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 905

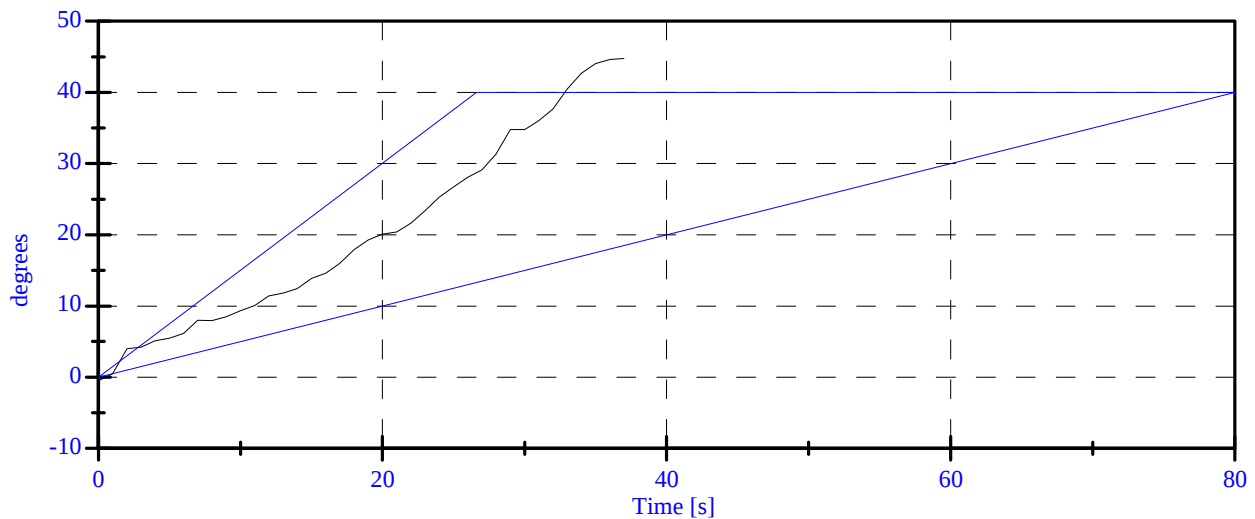
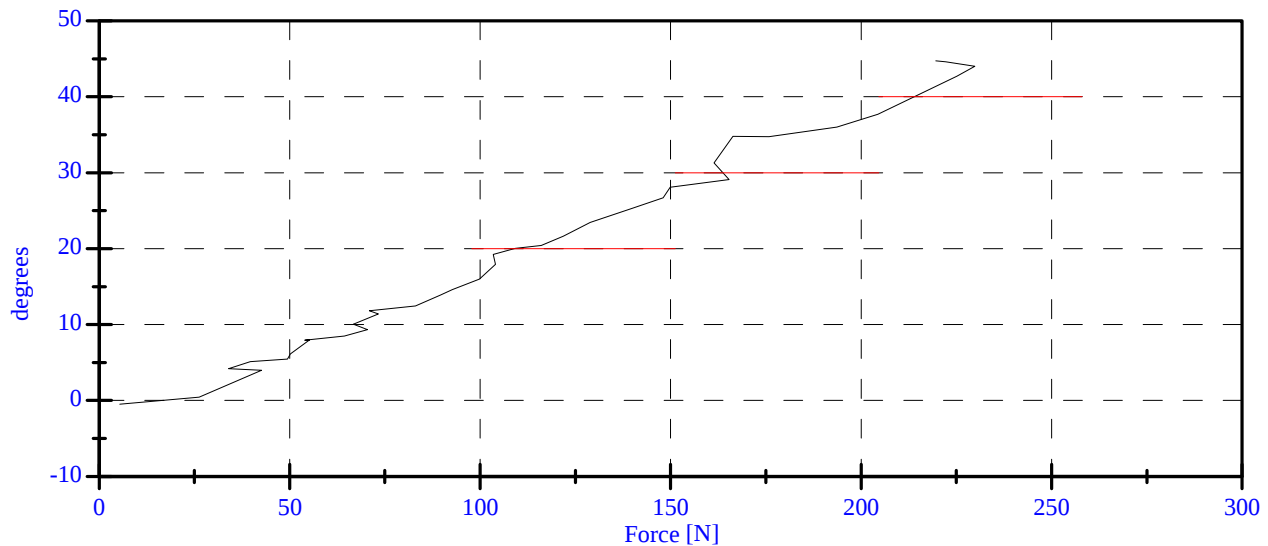
Date: December 24, 2004

Sequential Test Number: 1 File: 905Spine 12-23-04

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Force at 0 Deg:	0.00-26.69 N	26.21 N	Passed
Force at 20 Deg:	97.86-151.24 N	109.22 N	Passed
Force at 30 Deg	151.24-204.62 N	165.33 N	Passed
Force at 40 Deg	204.62-258.00 N	215.94 N	Passed
Return Angle	12 Deg Max	4.91 deg	Passed

LUMBAR SPINE FLEXION TEST



POST TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 905 Sequential Test Number: 2
 Date: December 23, 2004 Laboratory Technician: B. Swiecicki

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

CALIBRATION TEST RESULTS

POST TEST

SID H3 NO.: 906

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 906 Sequential Test Number: 2
Date: December 23, 2004 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 906 Sequential Test Number: 2
Date: December 23, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	908
RH- Rib Height (mm)	502 - 520	514
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	231
KH- Knee Pivot from Back Line (mm)	511 - 526	514
KV- Knee Pivot to Floor (mm)	490 - 505	493
HW- Hip Width (mm)	356 - 391	378

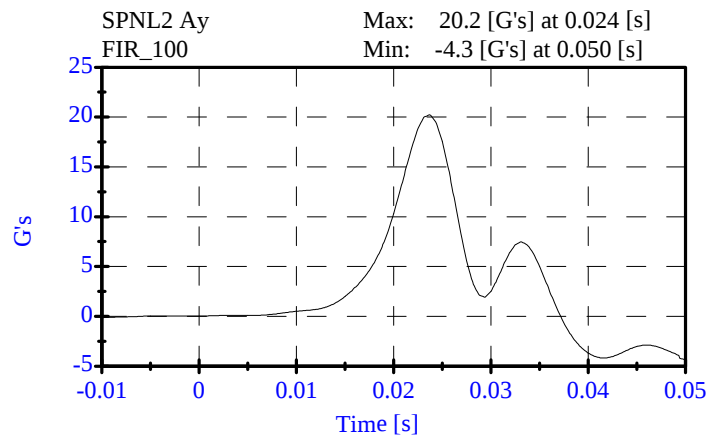
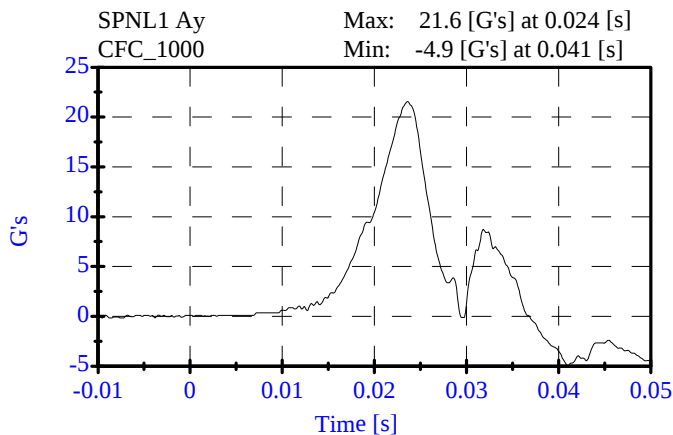
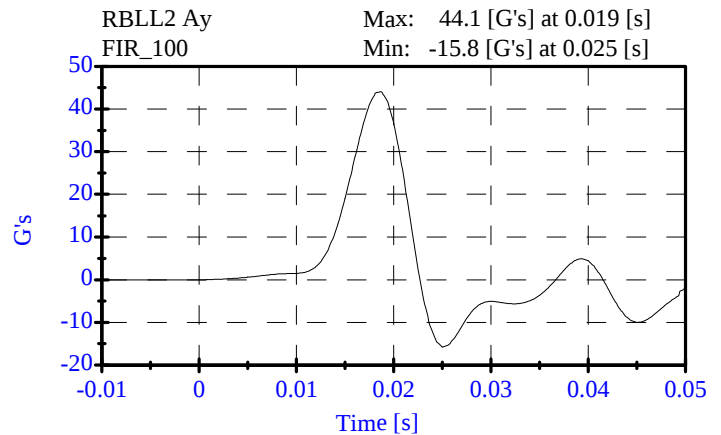
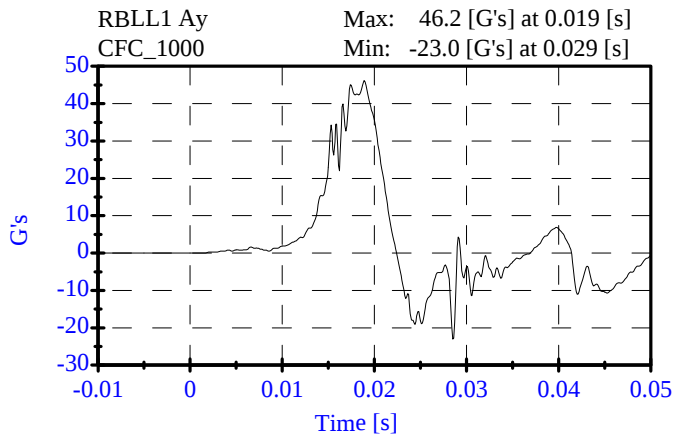
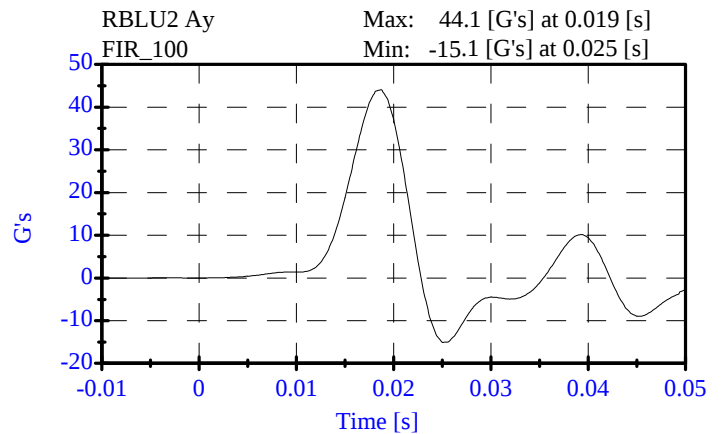
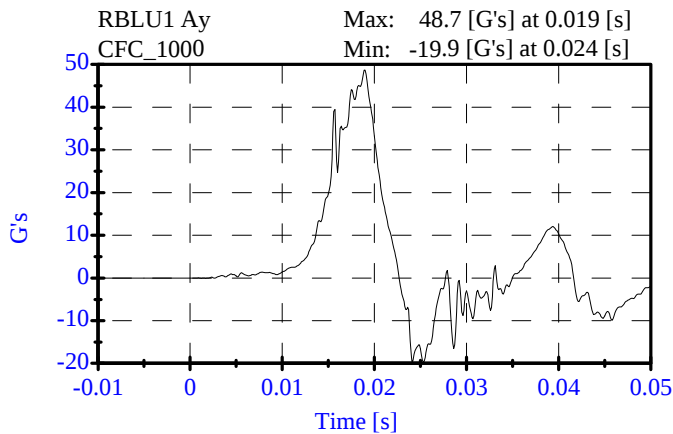
REMARKS: None

Thorax Impact - Good Part
Post-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: December 8, 2004

Sequential Test Number: 1 File: 906T_GP1 12-08-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	33.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.27 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	44.06 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	44.05 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	20.24 G's	Passed



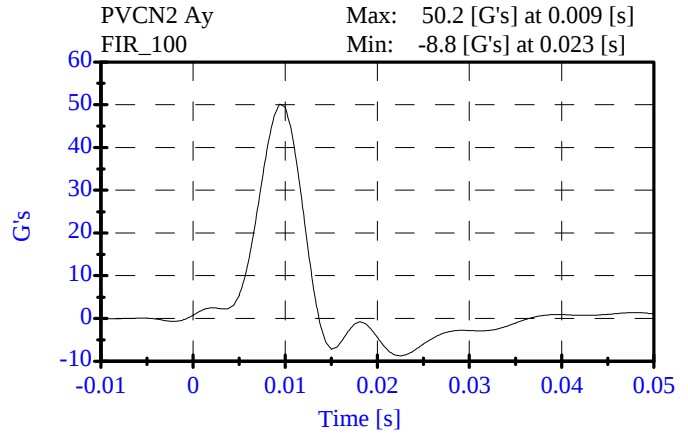
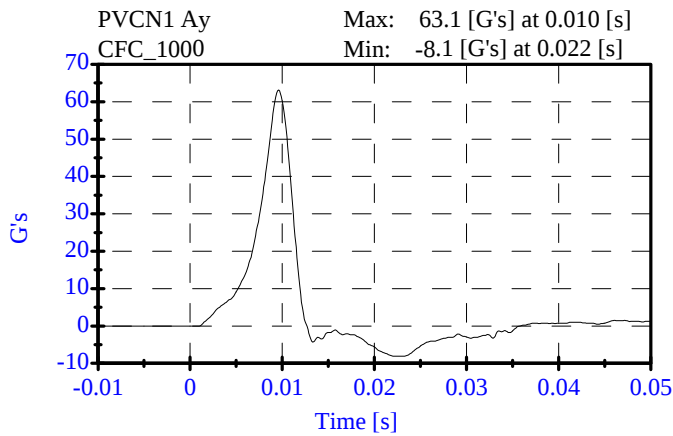
**Pelvic Impact
Post-Test**

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: December 24, 2004

Sequential Test Number: 1 File: 906P 12-23-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.27 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	50.16 G's	Passed
Time Above 20 Gs	3.0-7.0 ms	5.7 ms	Passed



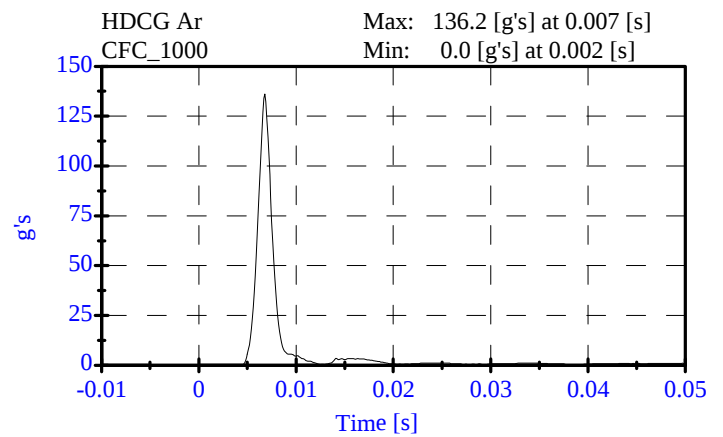
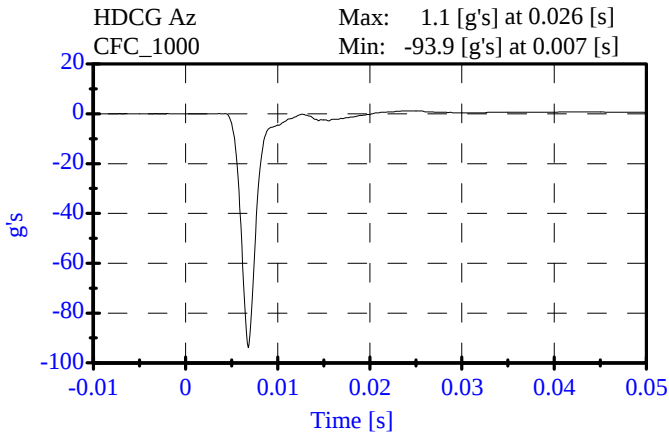
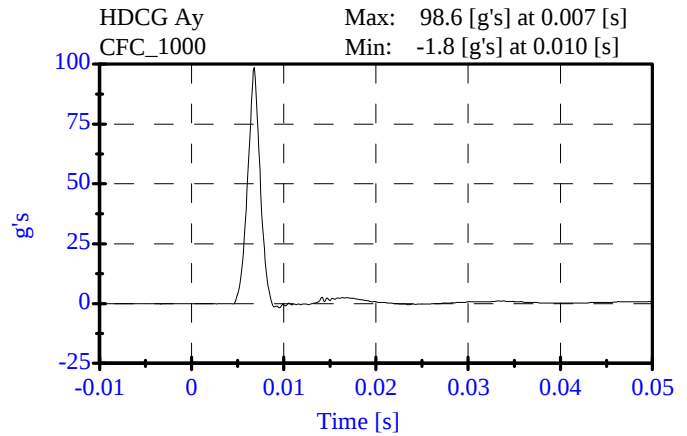
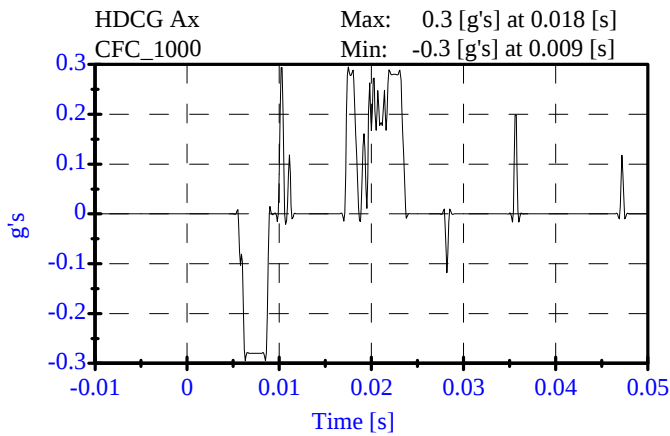
Head Drop Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: December 6, 2004

Sequential Test Number: 1 File: 906H 12-06-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.6 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	136.20 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	0.29 Gs	Passed
Curve PerCent NonModal:	< 15%	4.12 %	Passed



Neck Test**Post-Test****CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 906
Date: December 23, 2004

Sequential Test Number: 1 File: 906N8 12-22-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	38.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	6.92 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.30 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.68 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.63 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	6.86 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	66.0-82.0 Deg	67.05 Deg	Passed
Rotation Angle Decay:	58.0-67.0 ms	58.60 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	73.00- 88.00 N-m	77.78 N-m	Passed
Occipital Moment Decay:	49.0-64.0 ms	53.60 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	2.0-16.0 ms	11.10 ms	Passed

Neck Test

Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

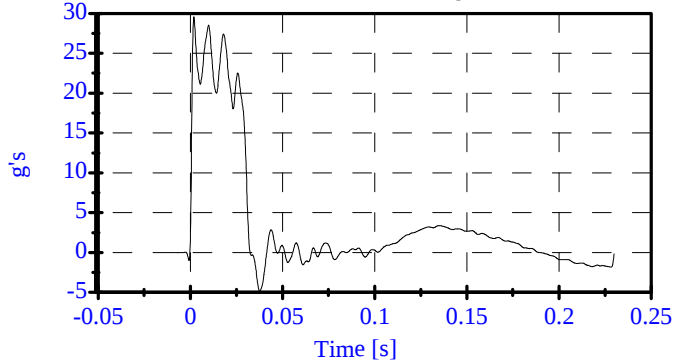
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Date: December 23, 2004

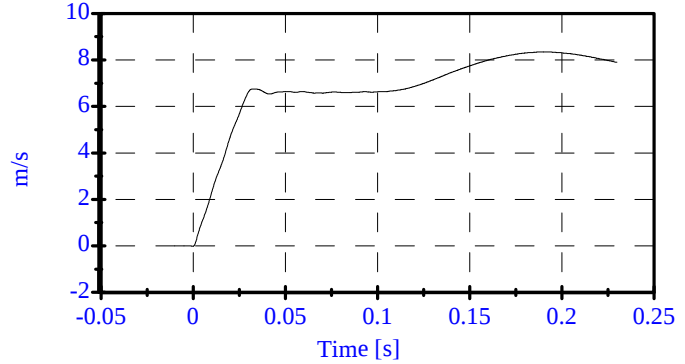
Sequential Test Number: 1 File: 906N8 12-22-04

Laboratory Technician: B. Swiecicki

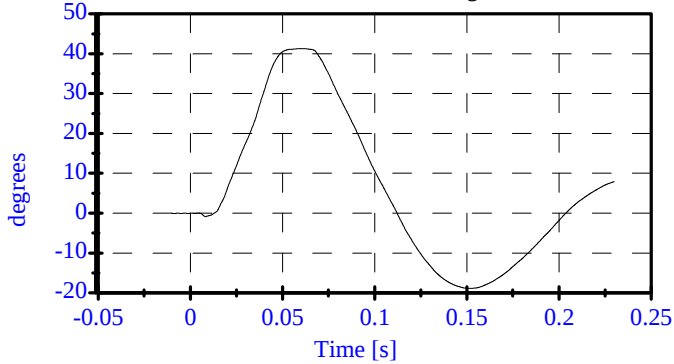
Pend Ax
CFC_180
Max: 29.6 [g's] at 0.002 [s]
Min: -4.8 [g's] at 0.038 [s]



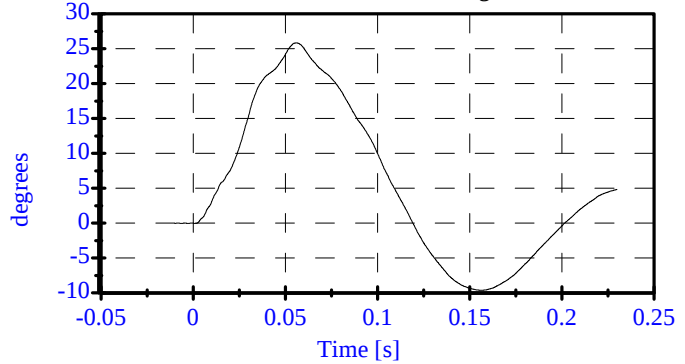
Pend Vx
CFC_180
Max: 8.3 [m/s] at 0.190 [s]
Min: -0.0 [m/s] at -0.000 [s]



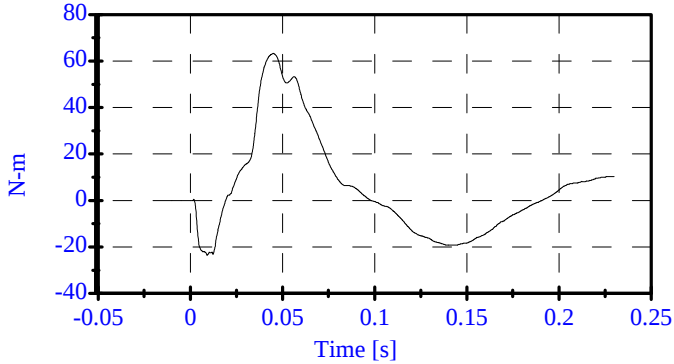
Head Rot
CFC_180
Max: 41.3 [degrees] at 0.061 [s]
Min: -18.9 [degrees] at 0.152 [s]



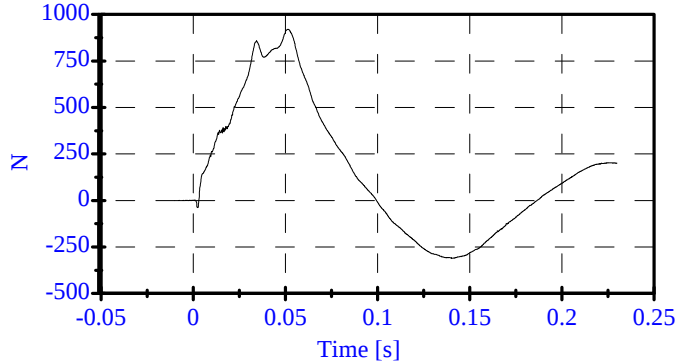
Arm Rot
CFC_180
Max: 25.9 [degrees] at 0.056 [s]
Min: -9.6 [degrees] at 0.156 [s]



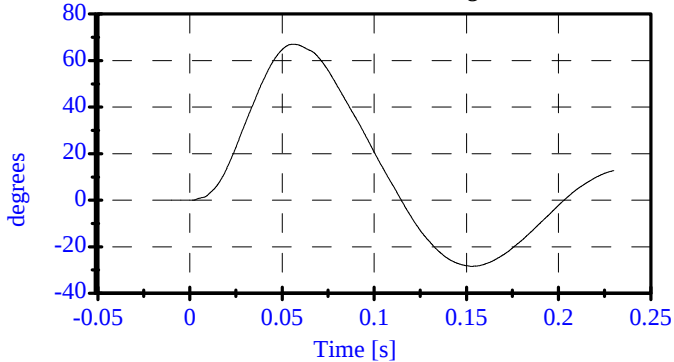
Neck Mx
CFC_600
Max: 63.2 [N-m] at 0.045 [s]
Min: -23.6 [N-m] at 0.009 [s]



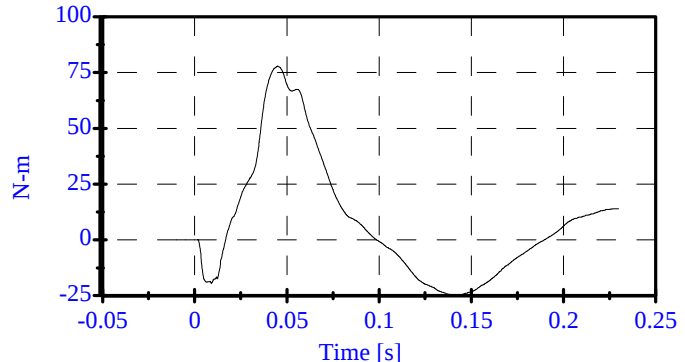
Neck Fy
CFC_1000
Max: 920.4 [N] at 0.051 [s]
Min: -311.3 [N] at 0.141 [s]



Tot Rot
CFC_180
Max: 67.1 [degrees] at 0.056 [s]
Min: -28.4 [degrees] at 0.153 [s]



MOCX
Max: 77.8 [N-m] at 0.045 [s]
Min: -24.8 [N-m] at 0.141 [s]



Abdomen Test

Post-Test

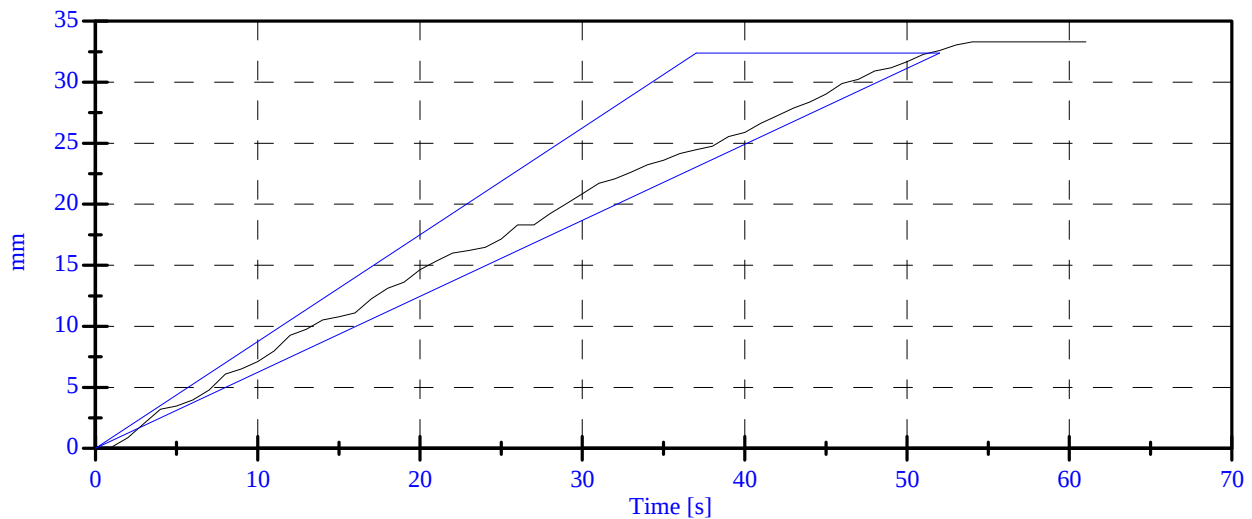
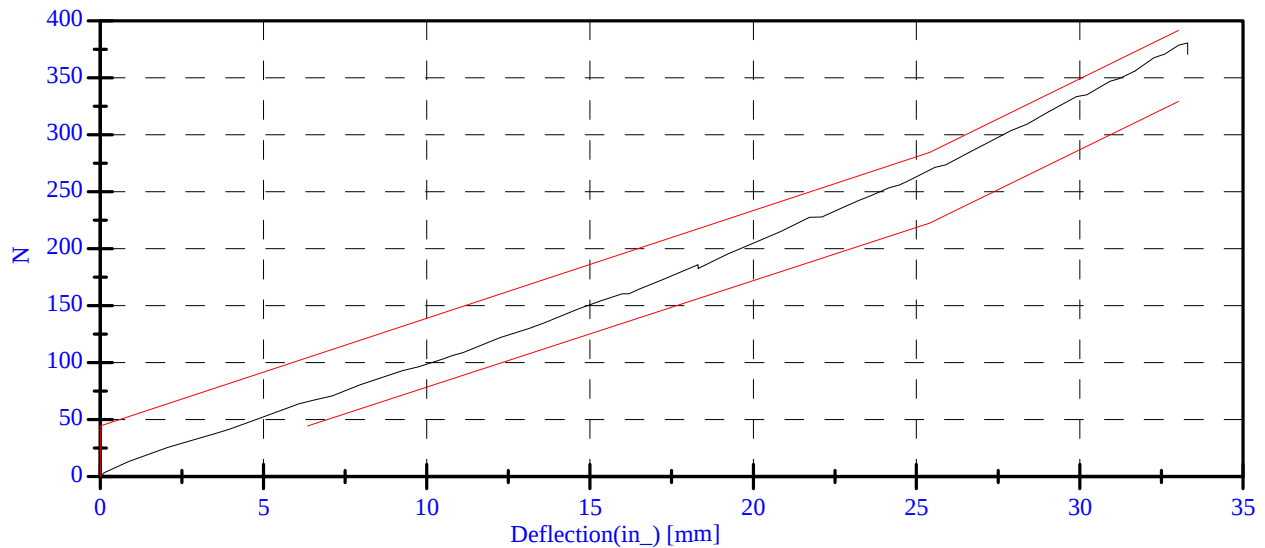
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: December 24, 2004

Sequential Test Number: 1 File: 906Ab 12-23-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Force at 12.95 mm :	104.00-162.00 N	129.84 N	Passed
Force at 19.05 mm :	162.98-220.99 N	195.63 N	Passed
Force at 25.40 mm :	221.97-280.02 N	271.30 N	Passed
Force at 33.02 mm :	324.99-391.00 N	378.76 N	Passed

ABDOMINAL COMPRESSION TEST



Lumbar Spine Test

Post-Test

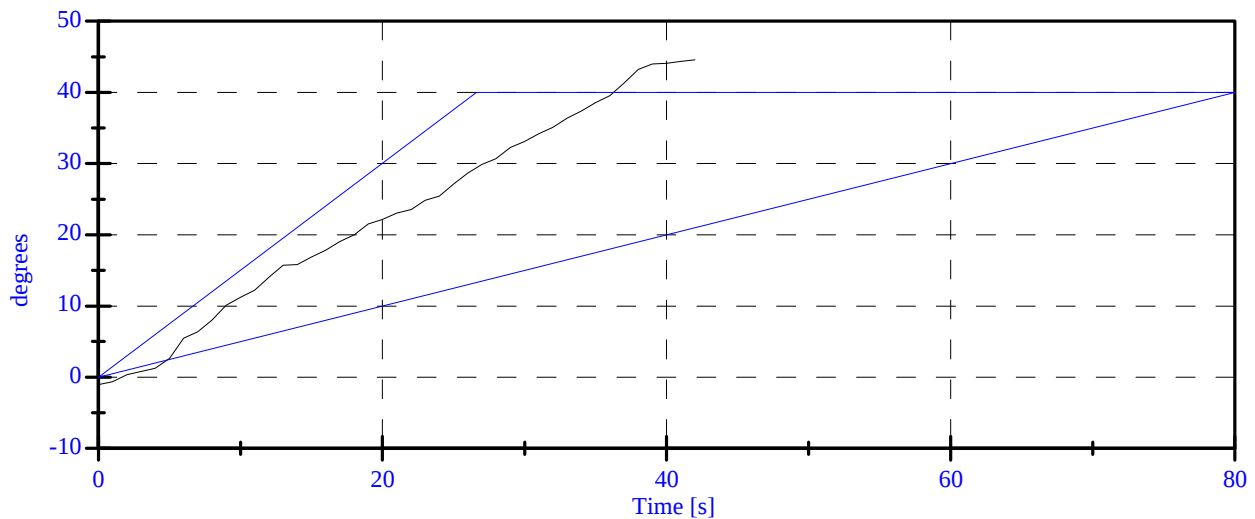
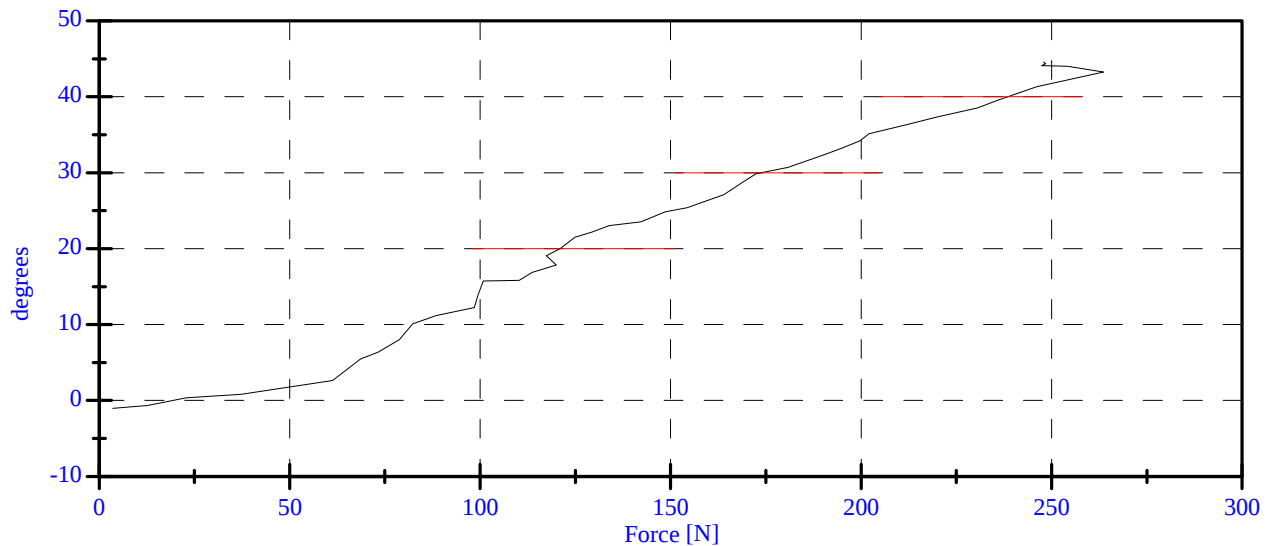
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 906
Date: December 23, 2004

Sequential Test Number: 1 File: 906Spine 12-23-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Force at 0 Deg:	0.00-26.69 N	22.81 N	Passed
Force at 20 Deg:	97.86-151.24 N	121.02 N	Passed
Force at 30 Deg	151.24-204.62 N	172.41 N	Passed
Force at 40 Deg	204.62-258.00 N	235.87 N	Passed
Return Angle	12 Deg Max	7.69 deg	Passed

LUMBAR SPINE FLEXION TEST



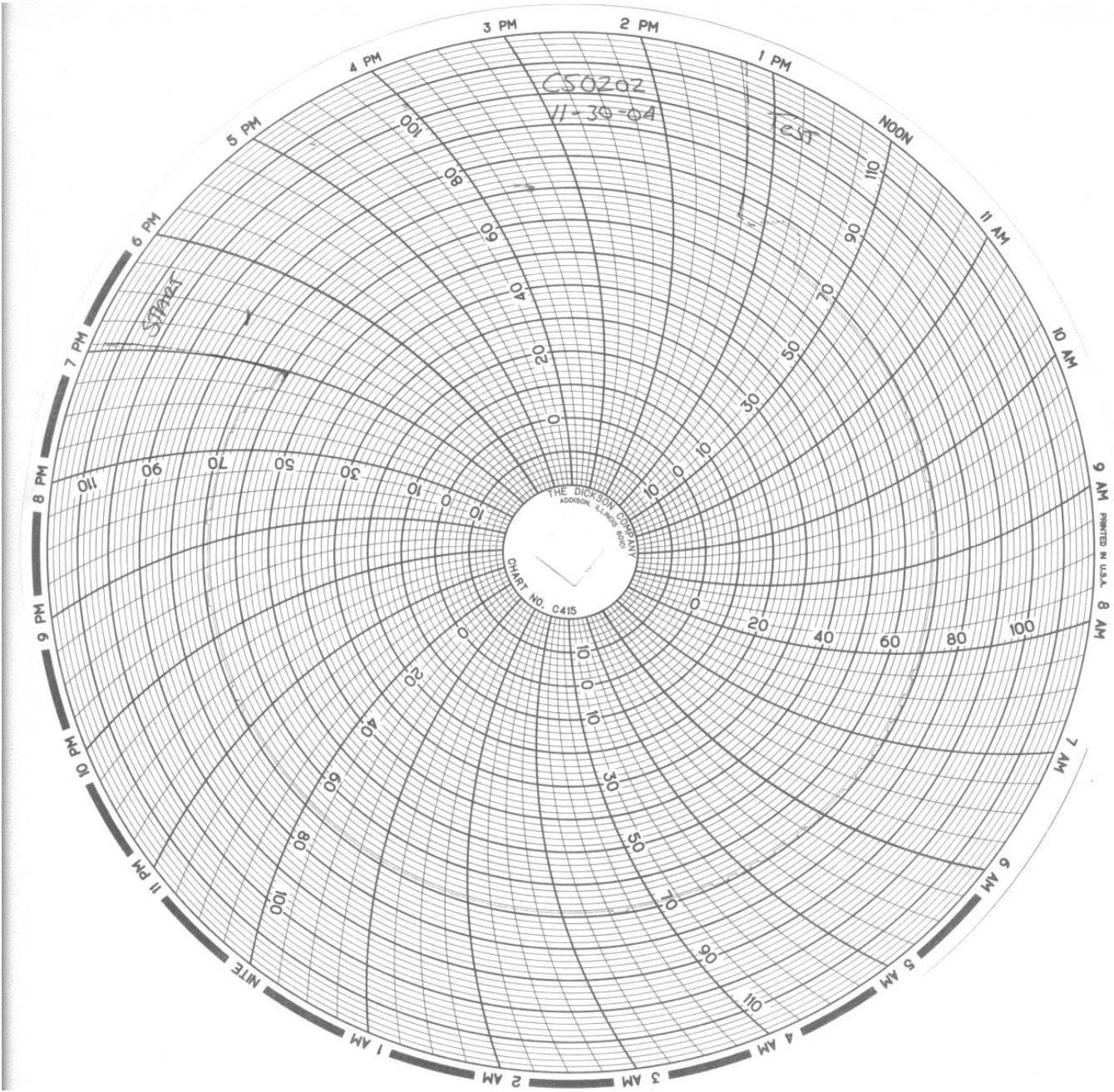
POST TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 906 Sequential Test Number: 2
Date: December 23, 2004 Laboratory Technician: B. Swiecicki

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

TEMPERATURE TRACE



APPENDIX D

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

SID INSTRUMENTATION

	FRONT SID NO.: 905		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
HEAD AX	AC-04J04I20-Z05	ENTRAN	04-Nov-04
HEAD AY	AC-04J04I01-R11	ENTRAN	04-Nov-04
HEAD AZ	AC-04J04I01-R08	ENTRAN	04-Nov-04
UPPER NECK FX	LC-289Fx	DENTON	18-Jun-04
UPPER NECK FY	lc-289Fy	DENTON	18-Jun-04
UPPER NECK FZ	LC-289Fz	DENTON	18-Jun-04
UPPER NECK MX	LC-289Mx	DENTON	18-Jun-04
UPPER NECK MY	LC-289My	DENTON	18-Jun-04
UPPER NECK MZ	LC-289MZ	DENTON	18-Jun-04
UPPER RIB	AC-04J04I01-R10	ENTRAN	04-Nov-04
LOWER RIB	AC-04J04I20-Z04	ENTRAN	04-Nov-04
LOWER SPINE	AC-03E03E18-F09	ENTRAN	16-Nov-04
PELVIS	AC-04J04I03-R13	ENTRAN	04-Nov-04
UPPER RIB REDUNDANT	AC-04J04I20-Z08	ENTRAN	04-Nov-04
LOWER RIB REDUNDANT	AC-04J04I01-R06	ENTRAN	04-Nov-04
LOWER SPINE REDUNDANT	AC-98H13-F11	ENTRAN	16-Nov-04
PELVIS REDUNDANT	AC-04J04I20-Z14	ENTRAN	04-Nov-04

	REAR SID NO.: 906		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
HEAD AX	AC-04J04I20-Z07	ENTRAN	04-Nov-04
HEAD AY	AC-04J04I07-Z15	ENTRAN	04-Nov-04
HEAD AZ	AC-04J04I20-Z06	ENTRAN	04-Nov-04
UPPER NECK FX	LC-304Fx	DENTON	21-Jun-04
UPPER NECK FY	LC-304Fy	DENTON	21-Jun-04
UPPER NECK FZ	LC-304Fz	DENTON	21-Jun-04
UPPER NECK MX	LC-304Mx	DENTON	21-Jun-04
UPPER NECK MY	LC-304My	DENTON	21-Jun-04
UPPER NECK MZ	LC-304Mz	DENTON	21-Jun-04
UPPER RIB	AC-04J04I01-R24	ENTRAN	04-Nov-04
LOWER RIB	AC-04J04I20-Z24	ENTRAN	04-Nov-04
LOWER SPINE	AC-98H10-F03	ENTRAN	16-Nov-04
PELVIS	AC-02I02I05-F06	ENTRAN	16-Nov-04
UPPER RIB REDUNDANT	AC-04J04I01-R18	ENTRAN	04-Nov-04
LOWER RIB REDUNDANT	AC-04J04I08-F24	ENTRAN	04-Nov-04
LOWER SPINE REDUNDANT	AC-02I02I24-N07	ENTRAN	16-Nov-04
PELVIS REDUNDANT	AC-02I02I05-F24	ENTRAN	16-Nov-04

REMARKS: None

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

VEHICLE AND MDB INSTRUMENTATION

	VEHICLE AND MDB INSTRUMENTS		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
RIGHT FRONT SILL (X)	AC-J31101	ENDEVCO	04-Nov-04
RIGHT FRONT SILL (Y)	AC-J31059	ENDEVCO	04-Nov-04
RIGHT FRONT SILL (Z)	AC-J31020	ENDEVCO	04-Nov-04
RIGHT REAR SILL (X)	AC-J37980	ENDEVCO	07-Oct-04
RIGHT REAR SILL (Y)	AC-J38127	ENDEVCO	07-Oct-04
RIGHT REAR SILL (Z)	AC-J37854	ENDEVCO	07-Oct-04
REAR FLOORPAN ABOVE AXLE (X)	AC-J31011	ENDEVCO	04-Nov-04
REAR FLOORPAN ABOVE AXLE (Y)	AC-J30491	ENDEVCO	20-Jul-04
REAR FLOORPAN ABOVE AXLE (Z)	AC-J33071	ENDEVCO	29-Jun-04
LEFT REAR SILL (Y)	AC-FGP46	ICS	24-Aug-04
LEFT FRONT SILL (Y)	AC-FGP20	ICS	27-Aug-04
LEFT FRONT DOOR CENTERLINE (Y)	-	-	-
RIGHT REAR SEAT OCCUPANT COMP. (Y)	AC-9440-045	GS SENSORS	09-Jun-04
MID REAR OF LEFT FRONT DOOR (Y)	-	-	-
LEFT FRONT DOOR UPPER C/L (Y)	-	-	-
MID REAR OF LEFT REAR DOOR (Y)	-	-	-
LEFT REAR DOOR UPPER C/L (Y)	-	-	-
LOWER LEFT B- PILLAR (Y)	AC-FGP22	ICS	27-Aug-04
MIDDLE LEFT B-PILLAR (Y)	AC-FGP12	ICS	27-Aug-04
LOWER LEFT A-PILLAR (Y)	AC-FGP25	ICS	24-Aug-04
UPPER LEFT A-PILLAR (Y)	AC-FGP37	ICS	27-Aug-04
FRONT SEAT TRACK (Y)	AC-FGP39	ICS	27-Aug-04
REAR SEAT TRACK (Y)	AC-FGP16	ICS	27-Aug-04
VEHICLE CG (X)	AC-P23873	ENDEVCO	28-Jul-04
VEHICLE CG (Y)	AC-P19246	ENDEVCO	28-Jul-04
VEHICLE CG (Z)	AC-J31034	ENDEVCO	28-Jul-04
MDB CG (X)	AC-C16433	ENDEVCO	31-Aug-04
MDB CG (Y)	AC-C16416	ENDEVCO	31-Aug-04
MDB CG (Z)	AC-C16499	ENDEVCO	31-Aug-04
MDB REAR FRAME MEMBER (X)	AC-C14948	ENDEVCO	31-Aug-04
MDB REAR FRAME MEMBER (Y)	AC-C16680	ENDEVCO	31-Aug-04

REMARKS: None