



**QUICKLOOK REPORT**

32 km/h (20 mph) Side Impact Validation 75° Rigid Pole Test

2010 Mazda3 I Sport 4-Door Sedan NHTSA No. MA5403

May 6, 2009

QUICK-1

TR-P29008-02-NC

	SID-IIs				
	Units	Limit	Value	t1	t2
<b>HIC 36</b>		1000	2846.4	60.4	61.7
<b>Combined Pelvic Force</b>	N	5525	1910		
<b>Lower Spine Acceleration</b>	G's	82	51		

	SID-IIS Filtered Data				
	Units	Max	Time	Min	Time
Max. Thorax Rib Deflection	MM	28.2	53.3	0.0	4.2
Lower Spine (T12) Resultant	G's	51.3	50.7	0.1	11.8
Max. Abdomen Rib Deflection	MM	27.5	52.2	0.0	11.4
Iliac Force	N	1057.8	49.6	-129.2	65.2
Acetabulum Force	N	869.8	46.1	-7.7	92.0

	Test Particulars			
	Metric Units		English Units	
	Units	Value	Units	Value
MDB Velocity	km/h	31.67	mph	19.68
Vehicle Curb Weight	kg	1297	lbs	2858
Vehicle Test Weight	kg	1382	lbs	3046
Vehicle Width	mm	1747	Inches	68.8
Vehicle Wheelbase	mm	2639	Inches	103.9
Vehicle Length	mm	4572	Inches	180.0

Test Vehicle Doors	
Can Disable ADLs Using Owner's Manual	No
Doors Locked (Pre-Test)	No
Driver Door Latched (Post-Test)	Yes

Impact Location		
Ref. Line Aft of Frt. Axle	MM	1067
Actual Impact Pt. Aft of Frt. Axle	MM	1051
Vertical Impact Pt. Difference	MM	6

	Airbag Deployment	
	Driver (P1)	
	Deployment	Mount
Head Bag	Yes	Curtain
Torso Bag	Yes	Seatback
Combination Bag	N/A	N/A
Frontal Bag	No	Steering Wheel

Vehicle Safety Features	
Pretensioners	Yes
Load Limiters	Yes
Adjustable Belt Anchors	Yes
ABS	Yes
ADLs	No

Comments:

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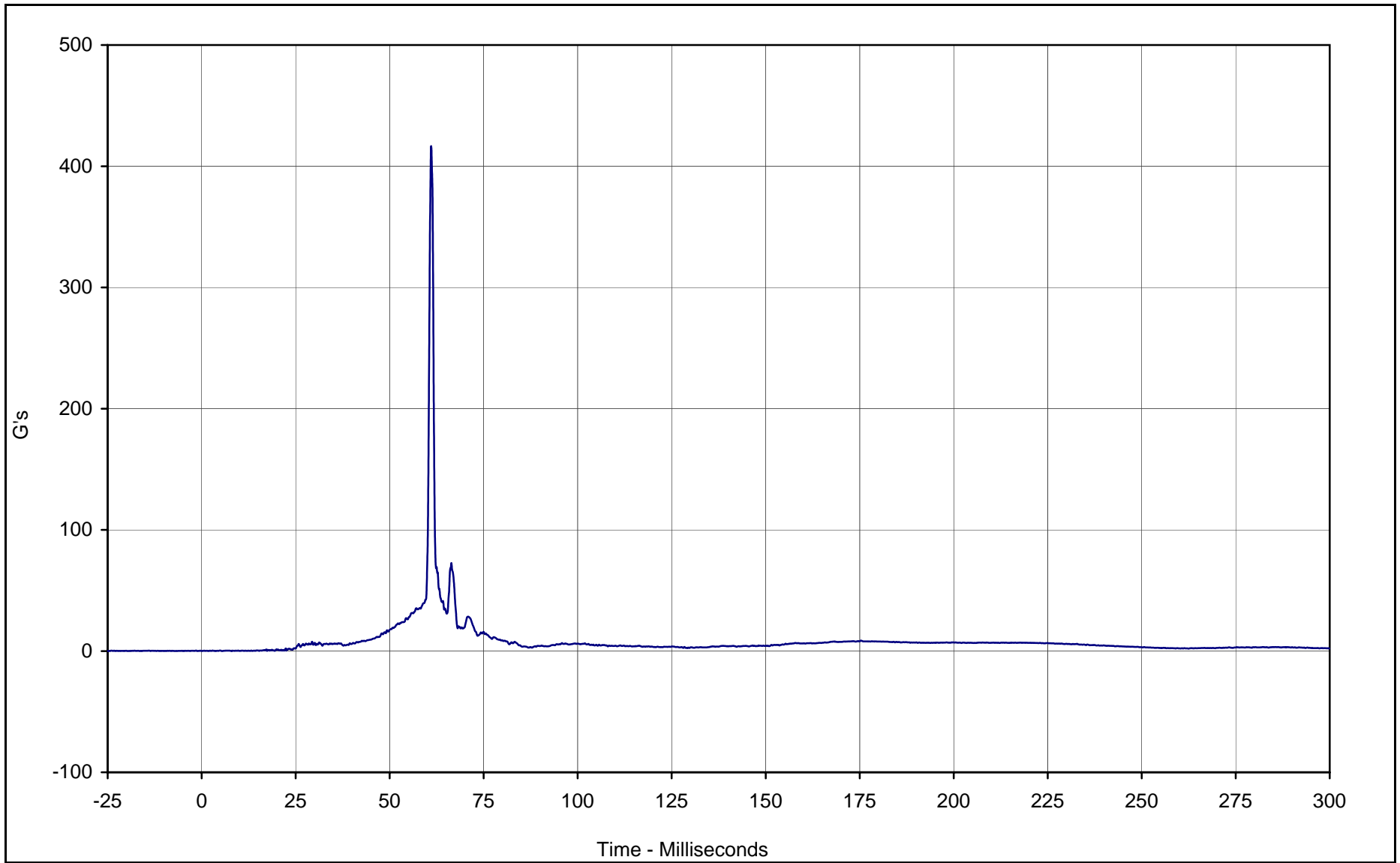


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QUICK-2



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Head Primary Resultant	001	RES	G's	416.4	61.0	0.0	1.8	1000



Test Vehicle: 2010 Mazda3 I Sport 4-Door Sedan

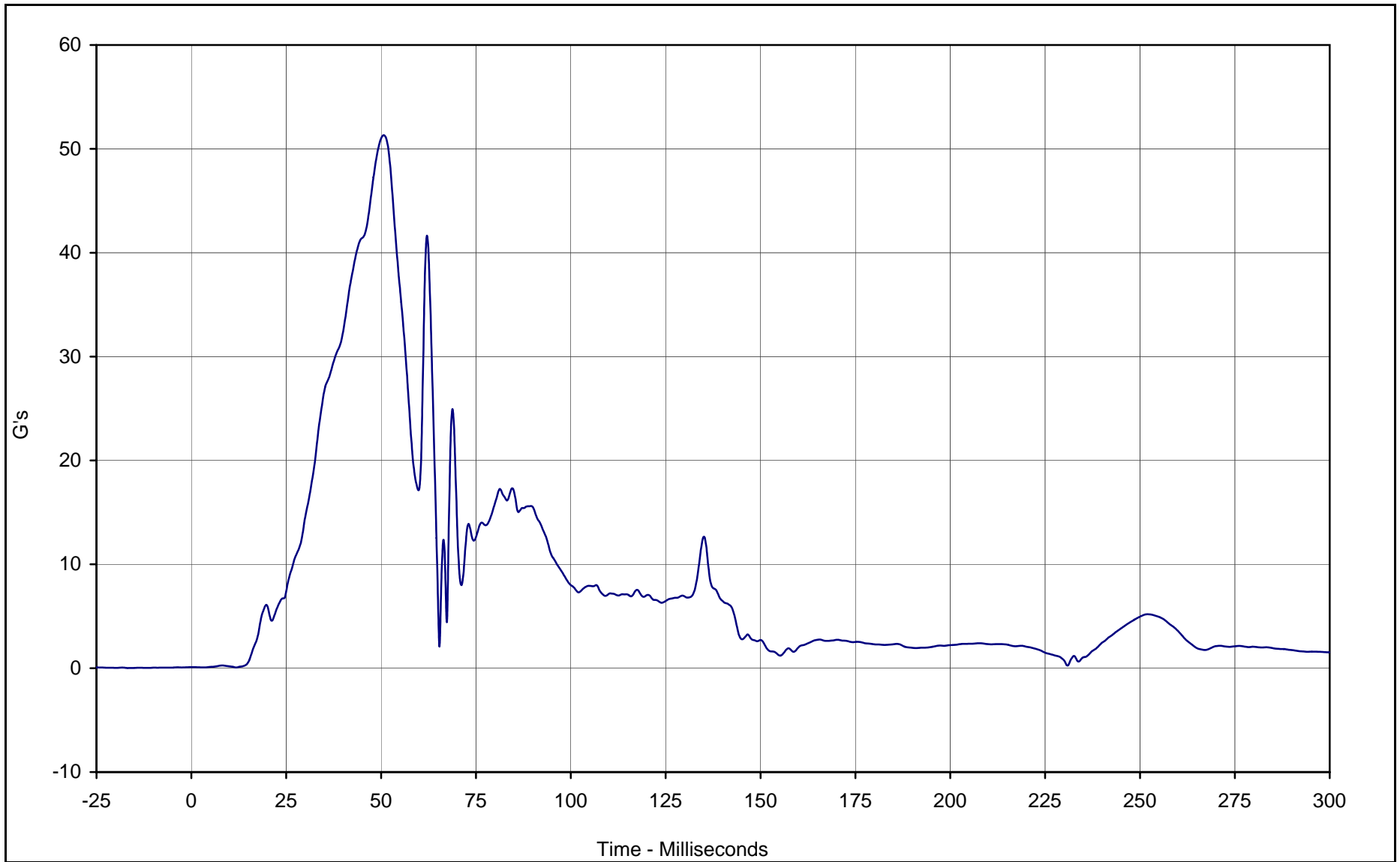
Test Date: 5/6/09

Test Program: Side Impact Validation 75° Rigid Pole Test

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QUICK-3



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Lower Spine Resultant	019	RES	G's	51.3	50.7	0.1	11.8	180

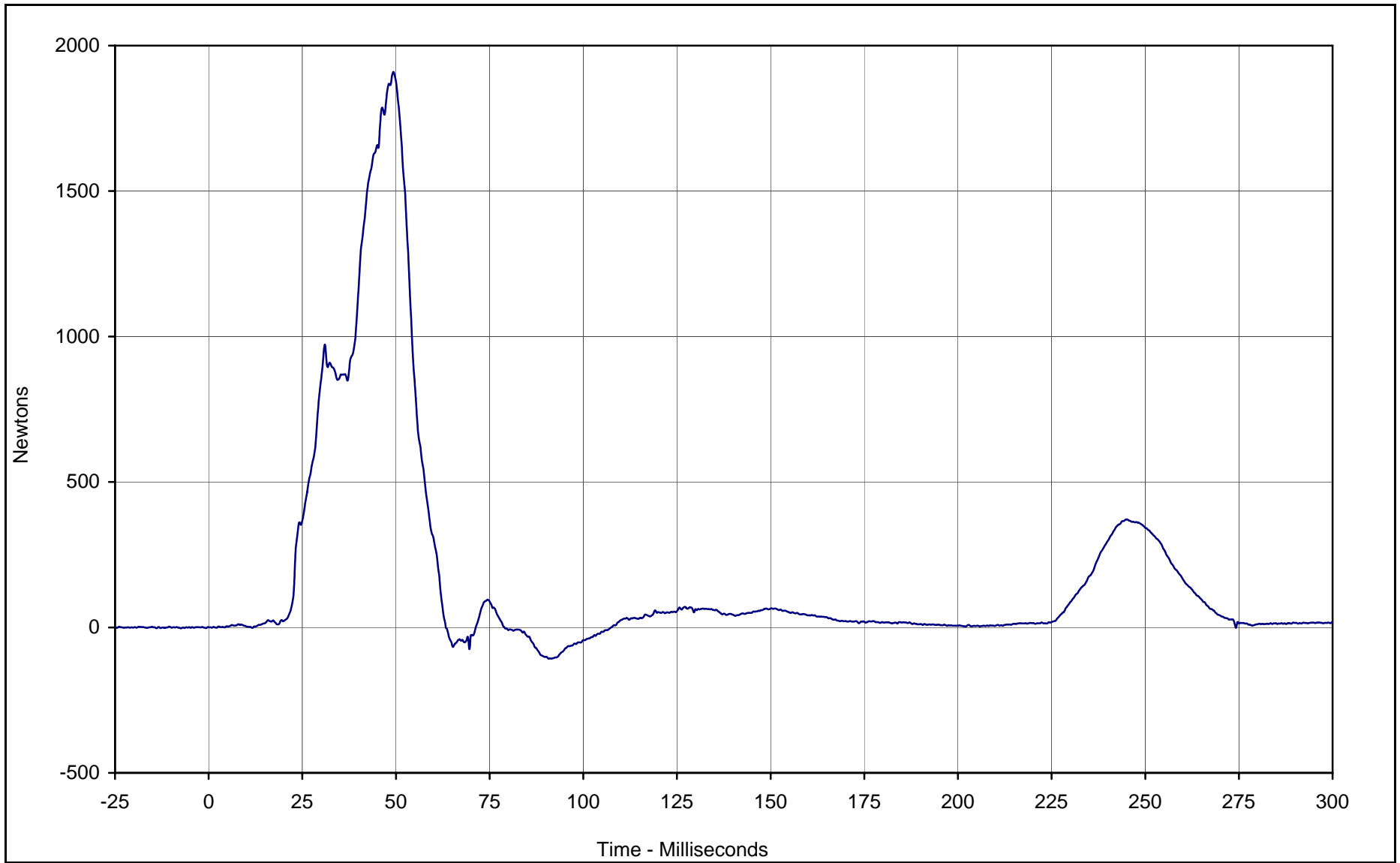


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QUICK-4



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Total Pelvic Force	022	SUM	Newtons	1909.6	49.3	-107.6	90.8	600



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