



QUICKLOOK REPORT
Side Validation Testing
2010 Lexus RX350 5-Door MPV NHTSA No. MA5104
April 23, 2009

Position 1 - ES-2re					
	Units	Limit	Value	t1	t2
HIC 36		1000	82.0	36.2	72.2
Chest Deflection	MM	44	18		
Combined Abdominal Force	N	2500	993		
Pelvic Force	N	6000	-1452		

Position 4 - SID-IIs					
	Units	Limit	Value	t1	t2
HIC 36		1000	89.8	46.3	82.3
Combined Pelvic Force	N	5525	4703		
Lower Spine Acceleration	G's	82	50		

ES-2re Filtered Data					
	Units	Max	Time	Min	Time
Max. Thorax Rib Deflection	MM	18.4	47.5	-3.1	69.8
Lower Spine (T12) Resultant	G's	27.4	40.3	0.0	0.0
Anterior Abdominal Rib Force	N	250.1	40.5	-10.1	95.5
Middle Abdominal Rib Force	N	287.5	40.2	-4.6	84.7
Posterior Abdominal Rib Force	N	456.2	40.4	-8.7	130.6
Pubic Force	N	105.0	80.3	-1452.1	36.4

SID-IIS Filtered Data					
	Units	Max	Time	Min	Time
Max. Thorax Rib Deflection	MM	13.4	64.1	-0.1	17.4
Lower Spine (T12) Resultant	G's	50.2	53.6	0.0	0.0
Max. Abdomen Rib Deflection	MM	20.9	59.7	-0.5	33.0
Iliac Force	N	1589.5	51.9	-118.4	39.3
Acetabulum Force	N	3348.6	48.4	-9.4	102.7

Vehicle Safety Features	
Pretensioners	Yes
Load Limiters	Yes
Adjustable Belt Anchors	Yes
ABS	Yes
ADLs	Yes

Standards Measured Post-Test	
301- Fuel System Integrity	Yes
305 - Electrolyte Spillage	N/A

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

Impact Location		
Ref. Line Aft of Frt. Axle	MM	428
Actual Impact Pt. Aft of Frt. Axle	MM	439
Vertical Impact Pt. Difference	MM	5

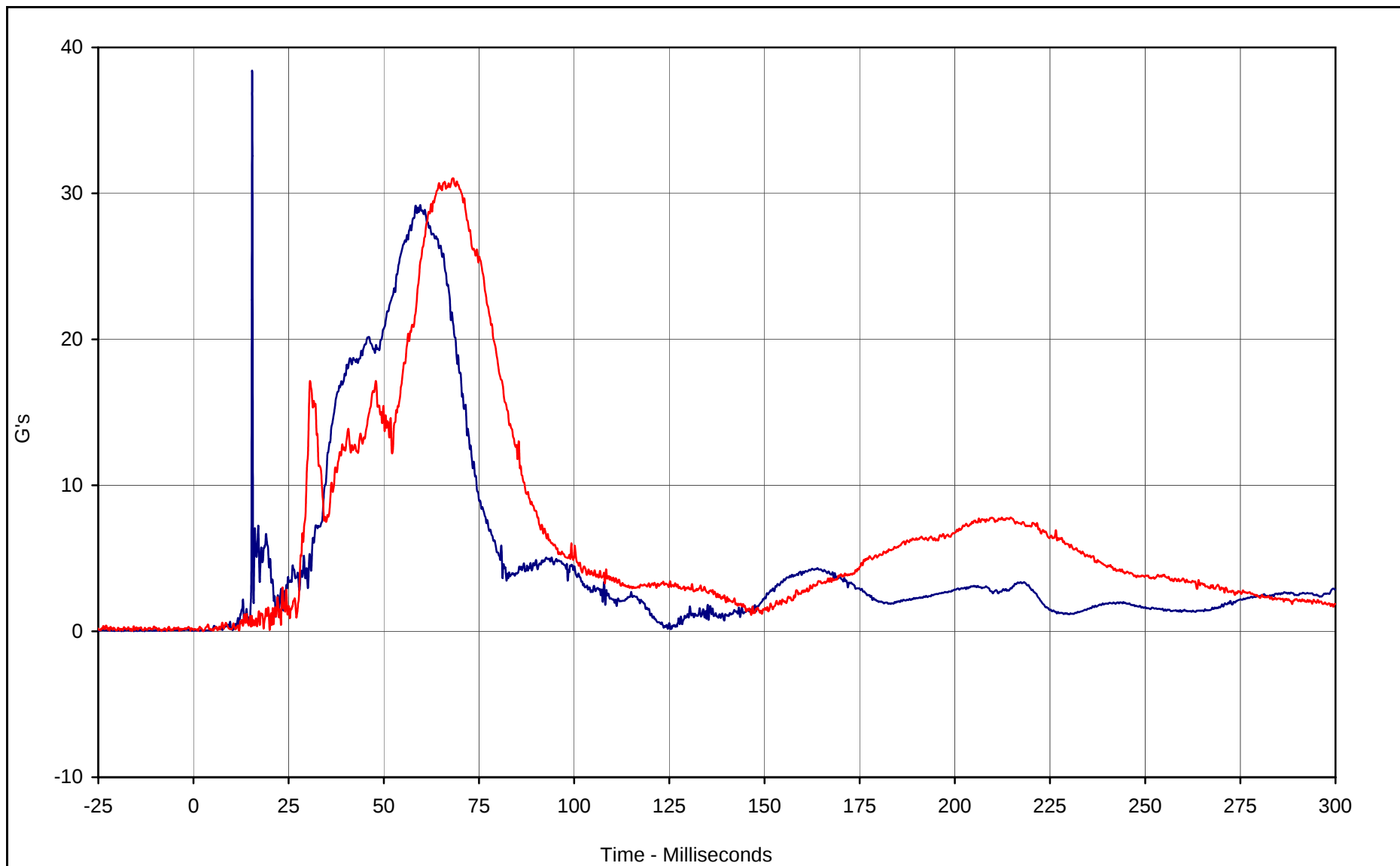
Airbag Deployment				
Driver (P1)		Left Rear Passenger (P4)		
Deployment	Mount	Deployment	Mount	
Head Bag	Yes	Curtain	Yes	Curtain
Torso Bag	Yes	Seatback	Yes	Seatback
Combination Bag	N/A	N/A	N/A	N/A
Frontal Bag	No	Steering Whl		

Test Particulars				
Metric Units		English Units		
Units	Value	Units	Value	
MDB Velocity	km/h	61.85	mph	38.43
Vehicle Curb Weight	kg	1891	lbs	4169
Vehicle Test Weight	kg	2039	lbs	4494
Vehicle Width	mm	1877	Inches	73.9
Vehicle Wheelbase	mm	2744	Inches	108.0
Vehicle Length	mm	4757	Inches	187.3

Comments:

QUICK-1

TR-P29003-01-NC



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Resultant Primary	001	RES	G's	38.2	15.4	0.0	1.6	1000
Passenger Head Resultant Primary	002	RES	G's	31.0	68.0	0.0	2.5	1000

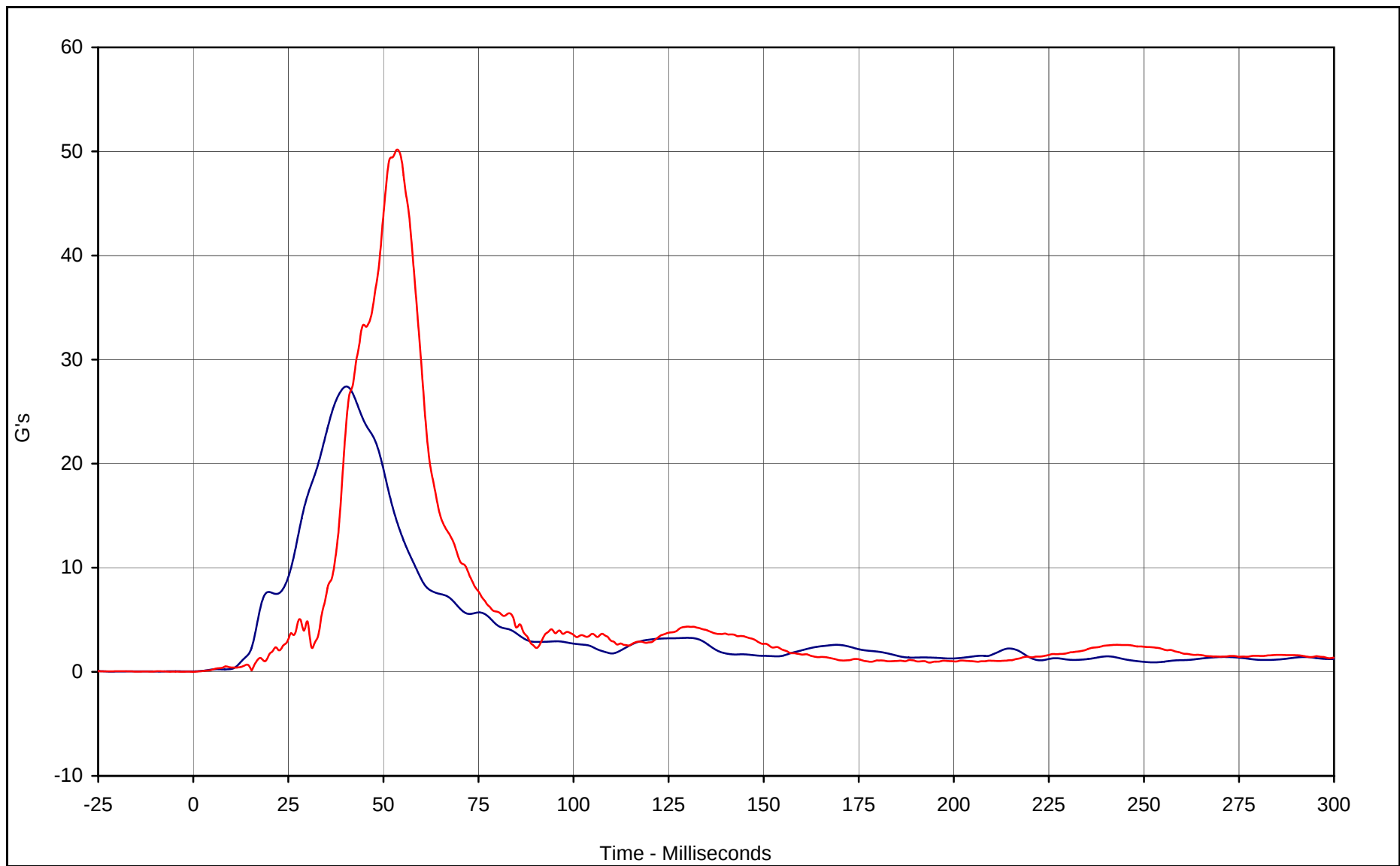


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Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Lower Spine Resultant	003	RES	G's	27.4	40.3	0.0	0.0	60
Passenger Lower Spine Resultant	004	RES	G's	50.2	53.6	0.0	0.0	180

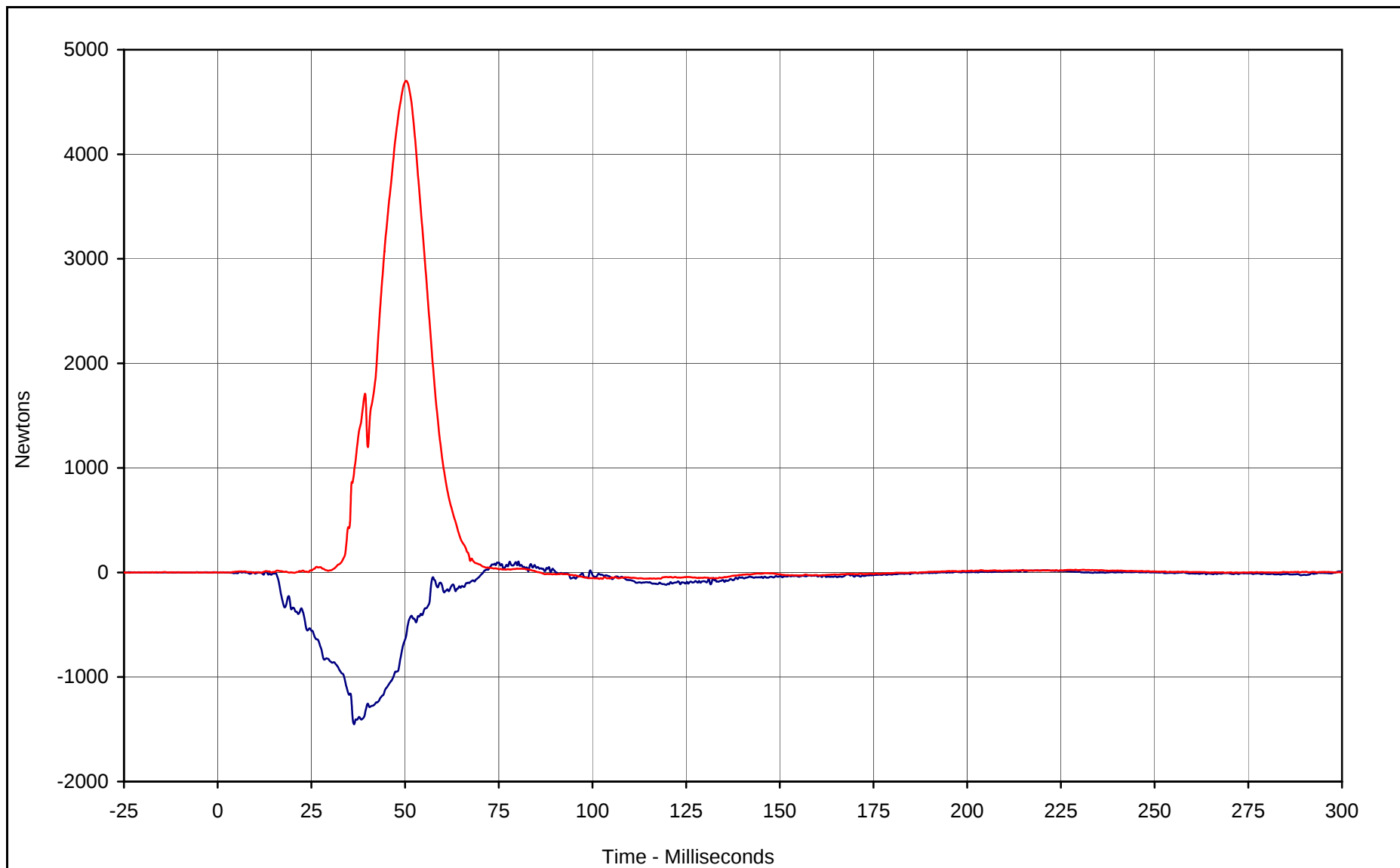


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Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Pubic FY	005	FIL	Newtons	105.0	80.3	-1452.1	36.4	600
Passenger Total Pelvic Force	006	SUM	Newtons	4703.4	50.3	-62.2	102.6	600

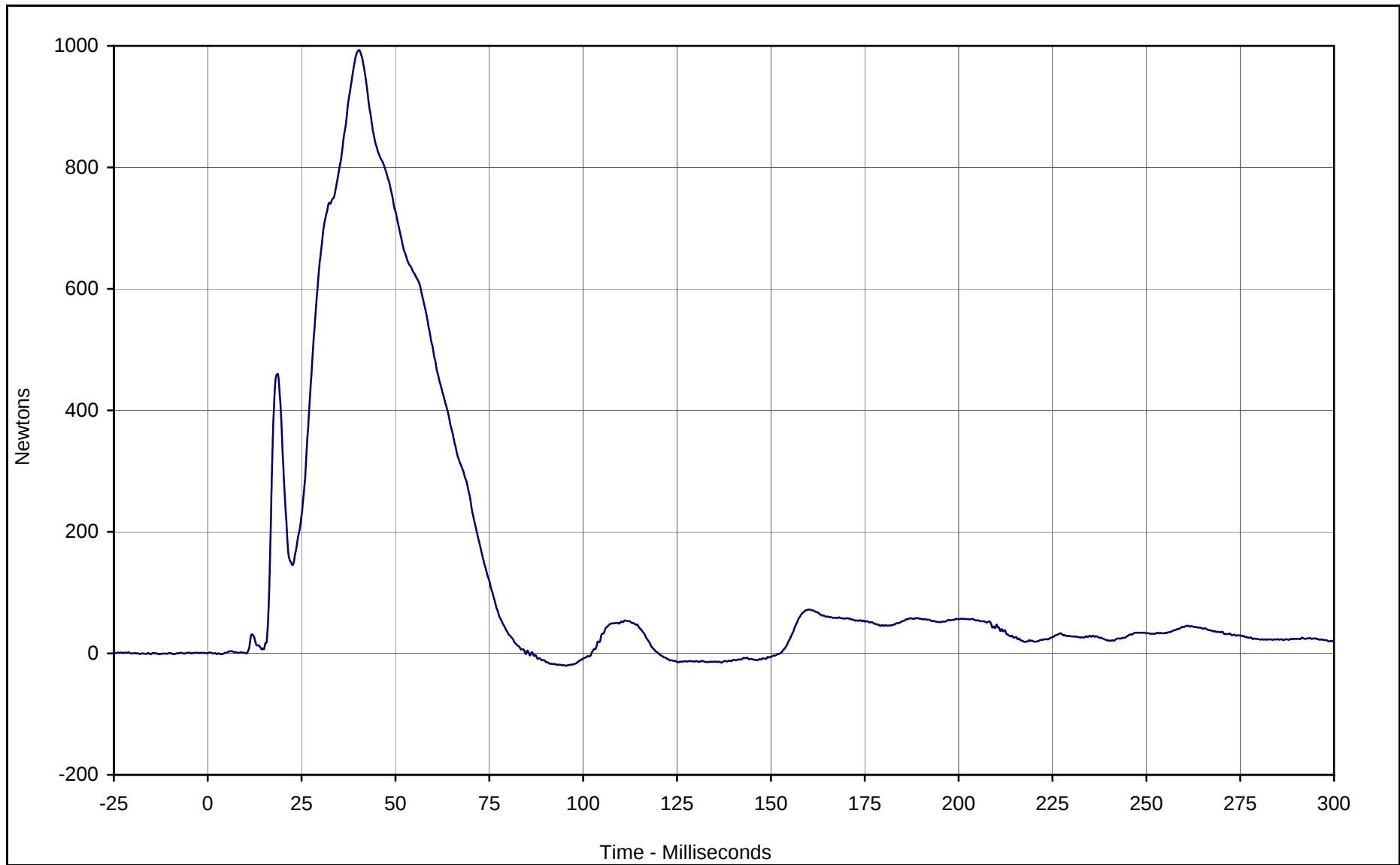


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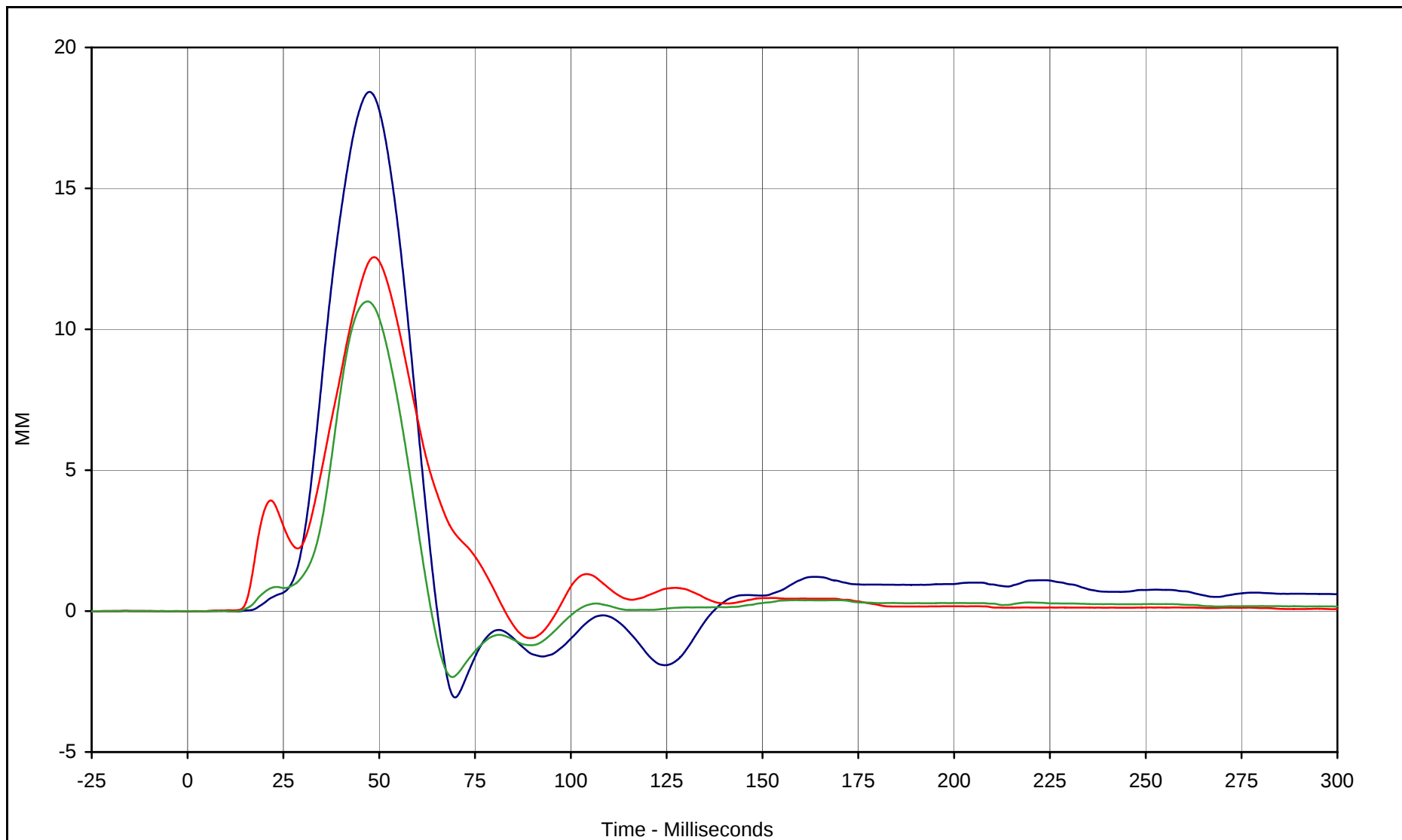


Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Total Abdominal Force	007	SUM	Newtons	993.3	40.3	-20.6	95.5	600



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Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Chest Upper Rib Deflection	008	FIL	MM	18.4	47.5	-3.1	69.8	180
Driver Chest Middle Rib Deflection	009	FIL	MM	12.6	48.7	-1.0	89.4	180
Driver Chest Lower Rib Deflection	010	FIL	MM	11.0	47.0	-2.3	69.1	180



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