



# NHTSA 35mph NCAP Test Summary

2008 Chevrolet Malibu LS 4-Door Sedan NHTSA No. M80102

December 6, 2007

|                     | HIC Values |                |                |          | 3 Msec Chest Clip |                |                |
|---------------------|------------|----------------|----------------|----------|-------------------|----------------|----------------|
|                     | Value      | t <sup>1</sup> | t <sup>2</sup> | Avg. G's | G's               | t <sup>1</sup> | t <sup>2</sup> |
| Driver Primary      | 329.7      | 73.7           | 109.7          | 38.4     | 43.1              | 62.5           | 65.5           |
| Driver Redundant    | 328.9      | 73.7           | 109.7          | 38.4     | 43.1              | 62.4           | 65.4           |
| Passenger Primary   | 389.3      | 65.0           | 101.0          | 41.0     | 42.2              | 76.9           | 79.9           |
| Passenger Redundant | 388.5      | 65.0           | 101.0          | 41.0     | 42.2              | 76.8           | 79.8           |

|           | Nij Values |      |      |      |
|-----------|------------|------|------|------|
|           | Ntf        | Nte  | Ncf  | Nce  |
| Driver    | 0.24       | 0.27 | 0.22 | 0.39 |
| Passenger | 0.21       | 0.33 | 0.21 | 0.00 |

|        | Peak Chest Deflections |        |                |
|--------|------------------------|--------|----------------|
|        | MM                     | Inches | t <sup>1</sup> |
| Driver | -39.4                  | -1.55  | 59.9           |
| Pass.  | -31.7                  | -1.25  | 73.5           |

|                 | Peak Femur Forces |      |           |      |
|-----------------|-------------------|------|-----------|------|
|                 | Min (N)           | Time | Min (Lbs) | Time |
| Driver Left     | -2021.1           | 63.5 | -454.4    | 63.5 |
| Driver Right    | -1247.6           | 56.9 | -280.5    | 56.9 |
| Passenger Left  | -459.9            | 87.5 | -103.4    | 87.5 |
| Passenger Right | -787.9            | 45.7 | -177.1    | 45.7 |

| Vehicle Safety Features |     |                   |
|-------------------------|-----|-------------------|
| ADL                     | ABS | Adj. Belt Anchors |
| Yes                     | Yes | Yes               |
| Pretensioners           |     | Load Limiter      |
| Yes                     |     | Yes               |

|                     | Test Particulars |       |               |       |
|---------------------|------------------|-------|---------------|-------|
|                     | Metric Units     |       | English Units |       |
|                     | Units            | Value | Units         | Value |
| Vehicle Velocity    | km/h             | 56.12 | mph           | 34.88 |
| Vehicle Curb Weight | kg               | 1556  | lbs           | 3430  |
| Vehicle Test Weight | kg               | 1778  | lbs           | 3920  |

| Test Vehicle Doors                    |     |
|---------------------------------------|-----|
| Can Disable ADL's Using Owners Manual | No  |
| Doors Locked (Pre)                    | Yes |
| Doors Latched (Post)                  | Yes |

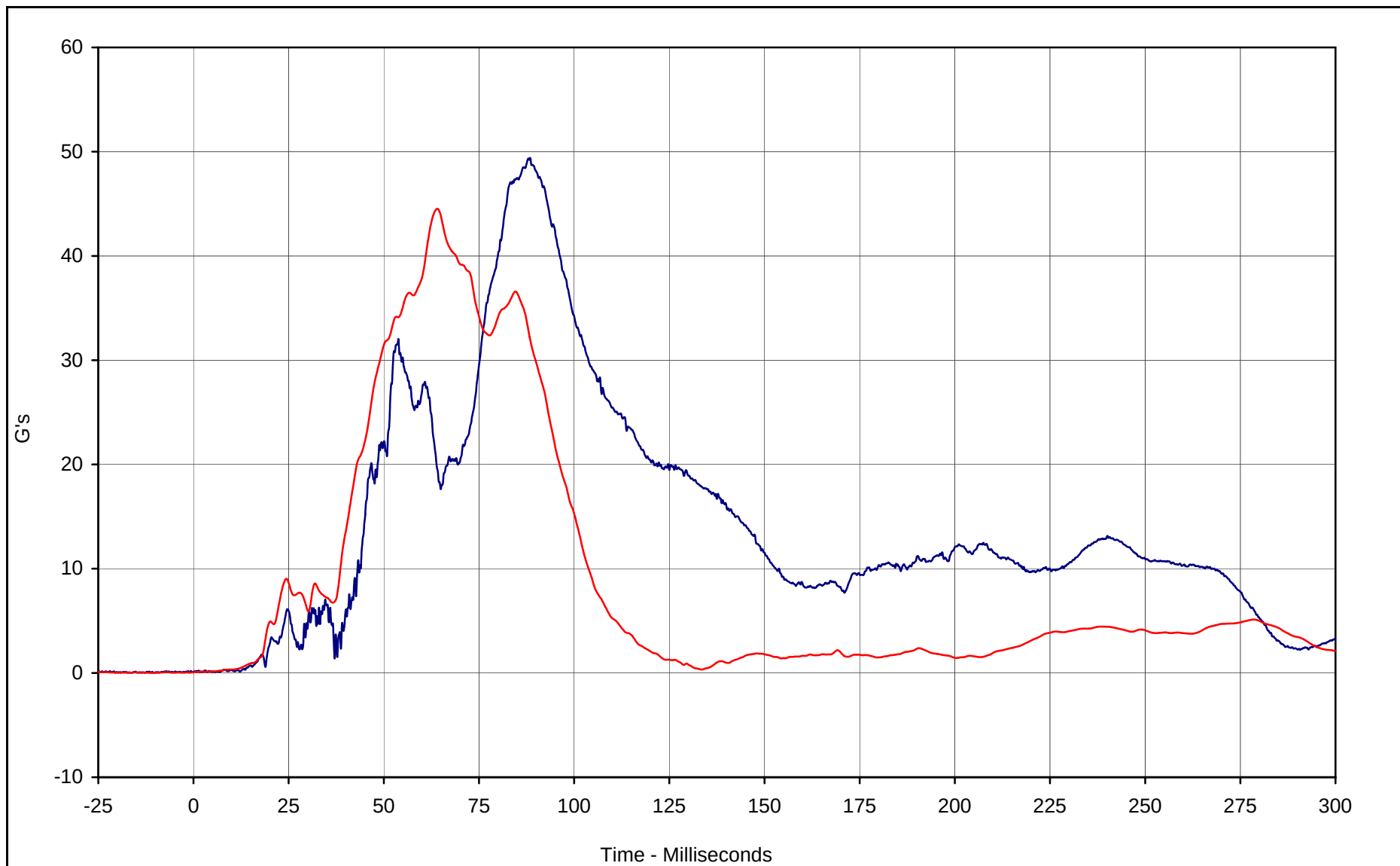
|           | Airbag Deployment |      |      |         |
|-----------|-------------------|------|------|---------|
|           | Front             | Knee | Side | Curtain |
| Driver    | Yes               |      |      |         |
| Passenger | Yes               |      |      |         |

| Standards Measured Post Test         |     |
|--------------------------------------|-----|
| 212 - Windshield Periphery Retention | Yes |
| 219 (Partial) - Windshield Zone      | Yes |
| 301 - Fuel System Integrity          | Yes |

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

QUICK-1

TR-P28001-14-NC



| Curve Description              | CURNO | Type | Units | Max  | Time | Min | Time | SAE Class |
|--------------------------------|-------|------|-------|------|------|-----|------|-----------|
| Driver Head Resultant Primary  | 001   | RES  | G's   | 49.4 | 88.4 | 0.1 | 1.7  | 1000      |
| Driver Chest Resultant Primary | 013   | RES  | G's   | 44.5 | 64.0 | 0.1 | 0.0  | 180       |

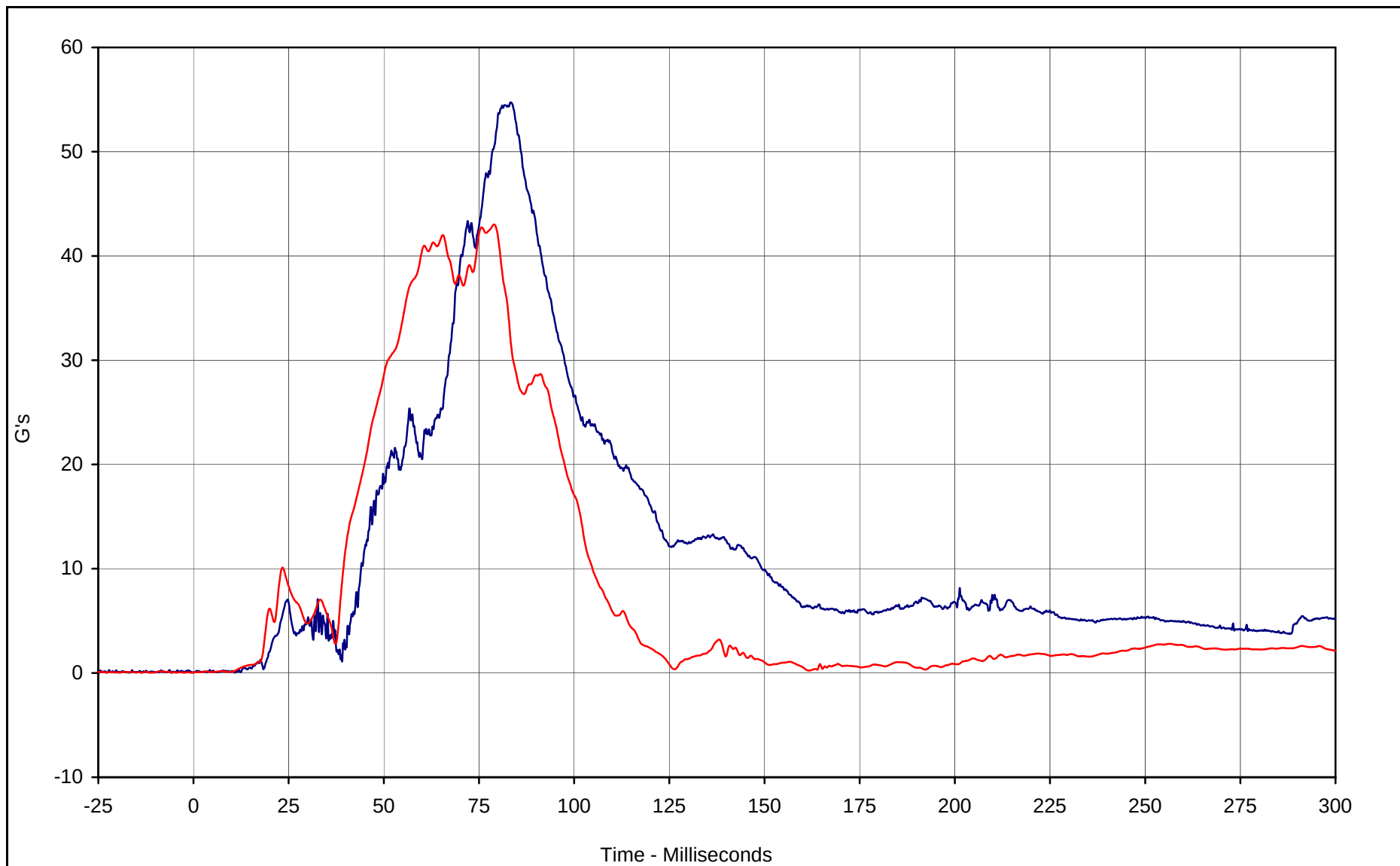


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| Curve Description                 | CURNO | Type | Units | Max  | Time | Min | Time | SAE Class |
|-----------------------------------|-------|------|-------|------|------|-----|------|-----------|
| Passenger Head Resultant Primary  | 045   | RES  | G's   | 54.7 | 83.3 | 0.0 | 10.8 | 1000      |
| Passenger Chest Resultant Primary | 057   | RES  | G's   | 43.0 | 79.0 | 0.0 | 0.0  | 180       |

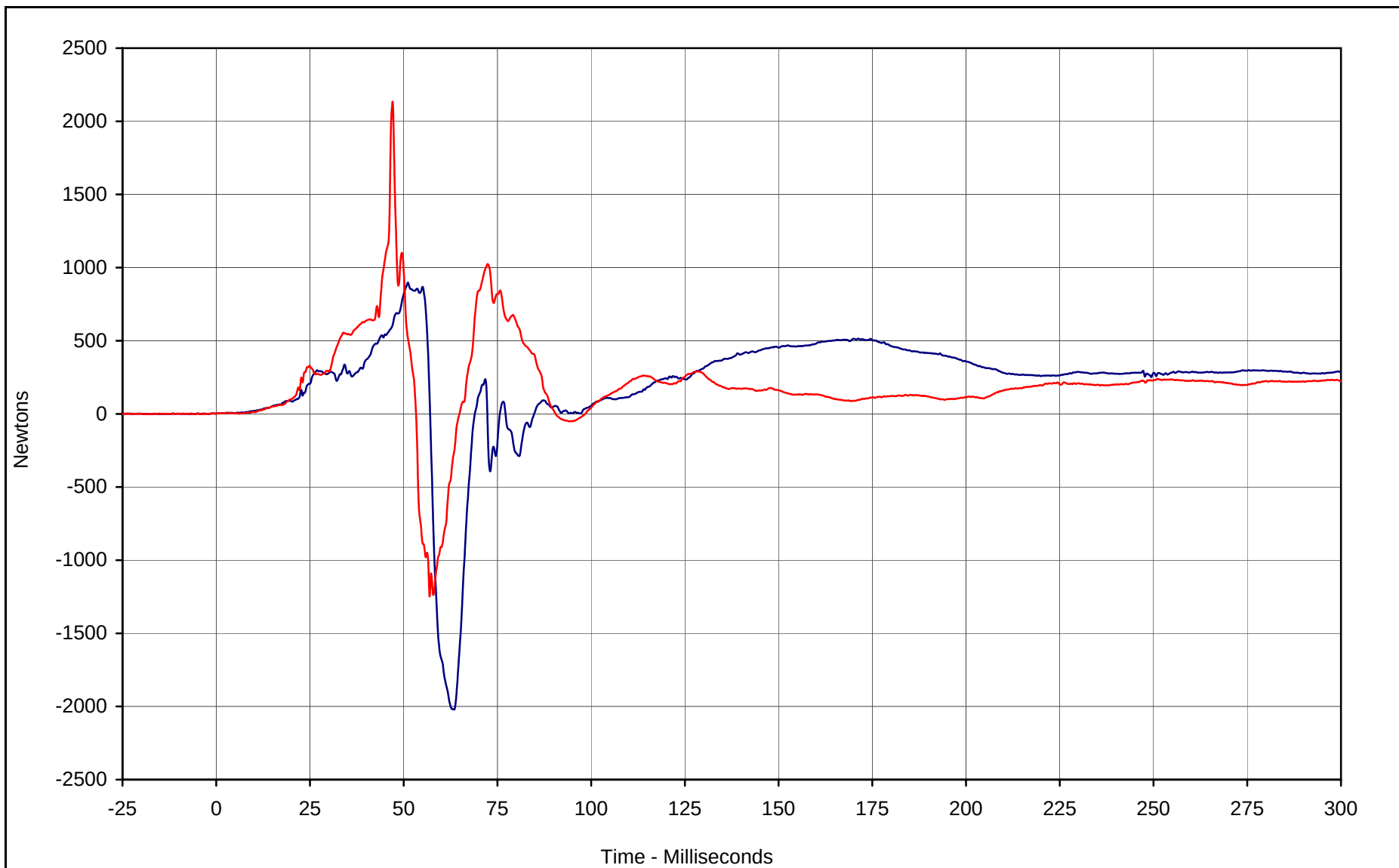


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|----------------------------|-------|------|---------|--------|------|---------|------|-----------|
| Driver Left Femur Force Z  | 023   | FIL  | Newtons | 896.8  | 51.1 | -2021.1 | 63.5 | 600       |
| Driver Right Femur Force Z | 024   | FIL  | Newtons | 2134.3 | 47.0 | -1247.6 | 56.9 | 600       |

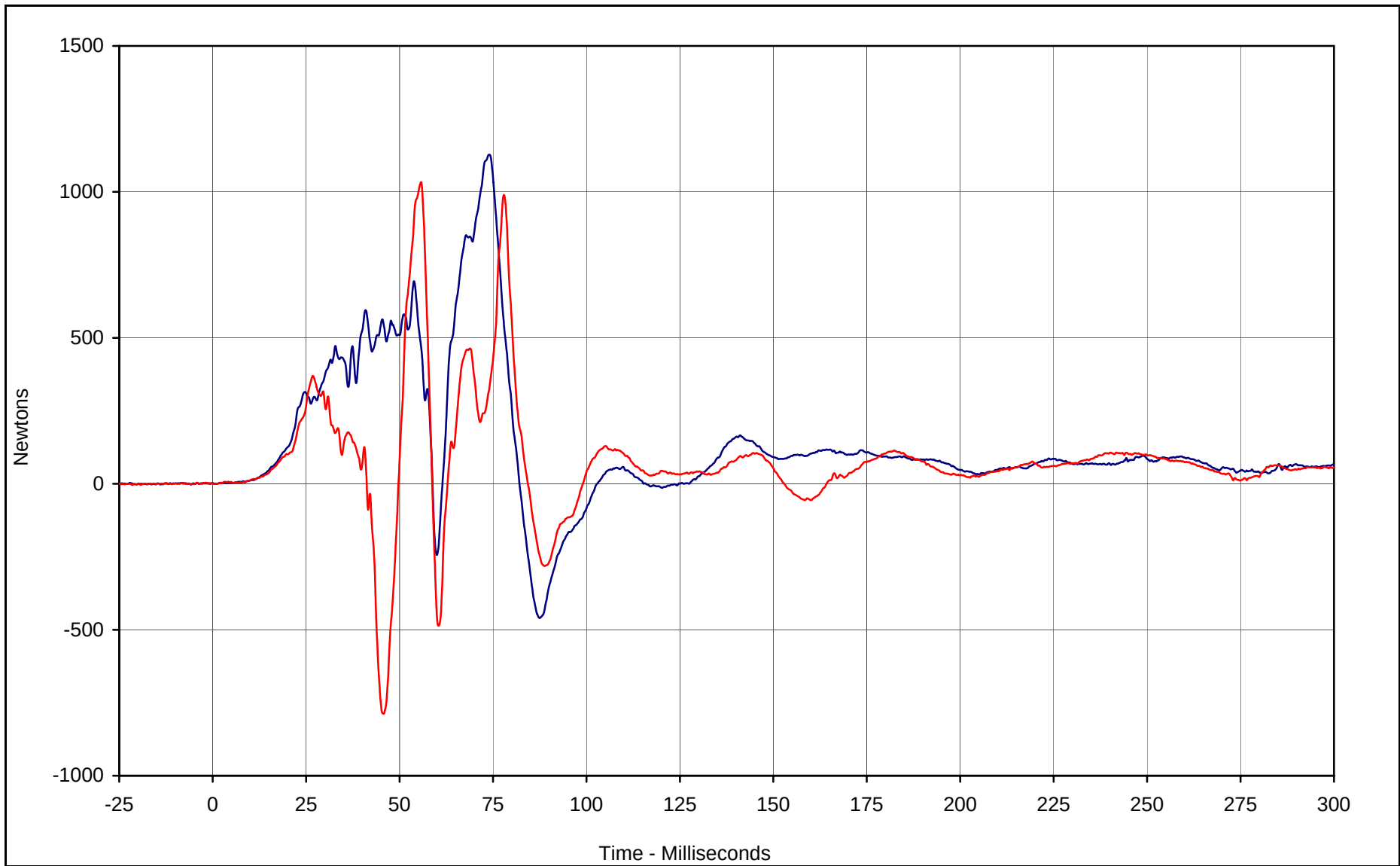


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|-------------------------------|-------|------|---------|--------|------|--------|------|-----------|
| Passenger Left Femur Force Z  | 067   | FIL  | Newtons | 1127.6 | 74.0 | -459.9 | 87.5 | 600       |
| Passenger Right Femur Force Z | 068   | FIL  | Newtons | 1033.2 | 55.7 | -787.9 | 45.7 | 600       |

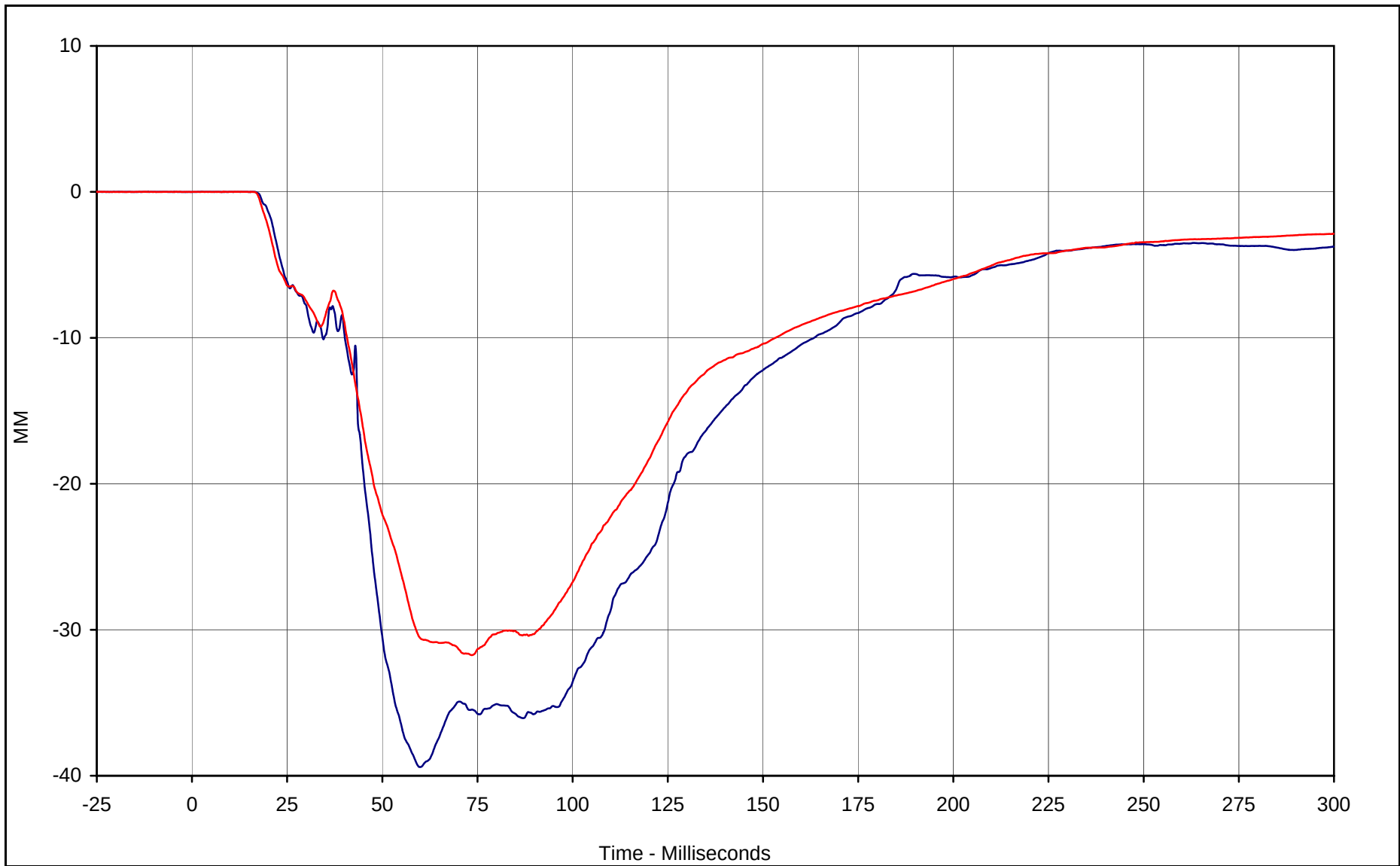


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| Curve Description          | CURNO | Type | Units | Max | Time | Min   | Time | SAE Class |
|----------------------------|-------|------|-------|-----|------|-------|------|-----------|
| Driver Chest Deflection    | 019   | FIL  | MM    | 0.0 | 2.5  | -39.4 | 59.9 | 600       |
| Passenger Chest Deflection | 063   | FIL  | MM    | 0.0 | 11.2 | -31.7 | 73.5 | 600       |

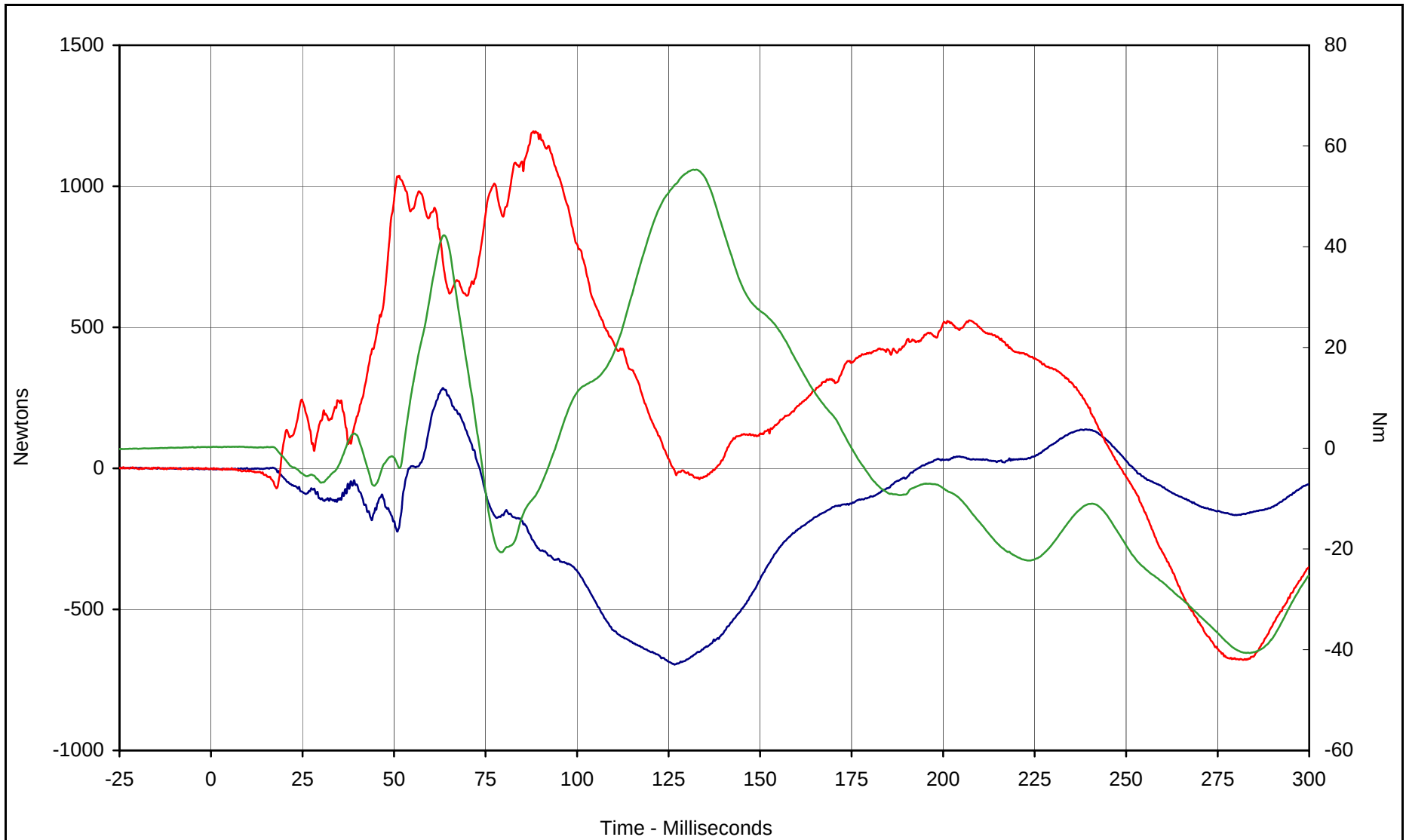


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| Curve Description          | CURNO | Type | Units   | Max    | Time  | Min    | Time  | SAE Class |
|----------------------------|-------|------|---------|--------|-------|--------|-------|-----------|
| Driver Upper Neck Force X  | 007   | FIL  | Newtons | 284.9  | 63.4  | -695.8 | 126.6 | 1000      |
| Driver Upper Neck Force Z  | 009   | FIL  | Newtons | 1194.6 | 88.1  | -679.4 | 282.0 | 1000      |
| Driver Upper Neck Moment Y | 011   | FIL  | Nm      | 55.3   | 132.6 | -40.7  | 283.8 | 600       |

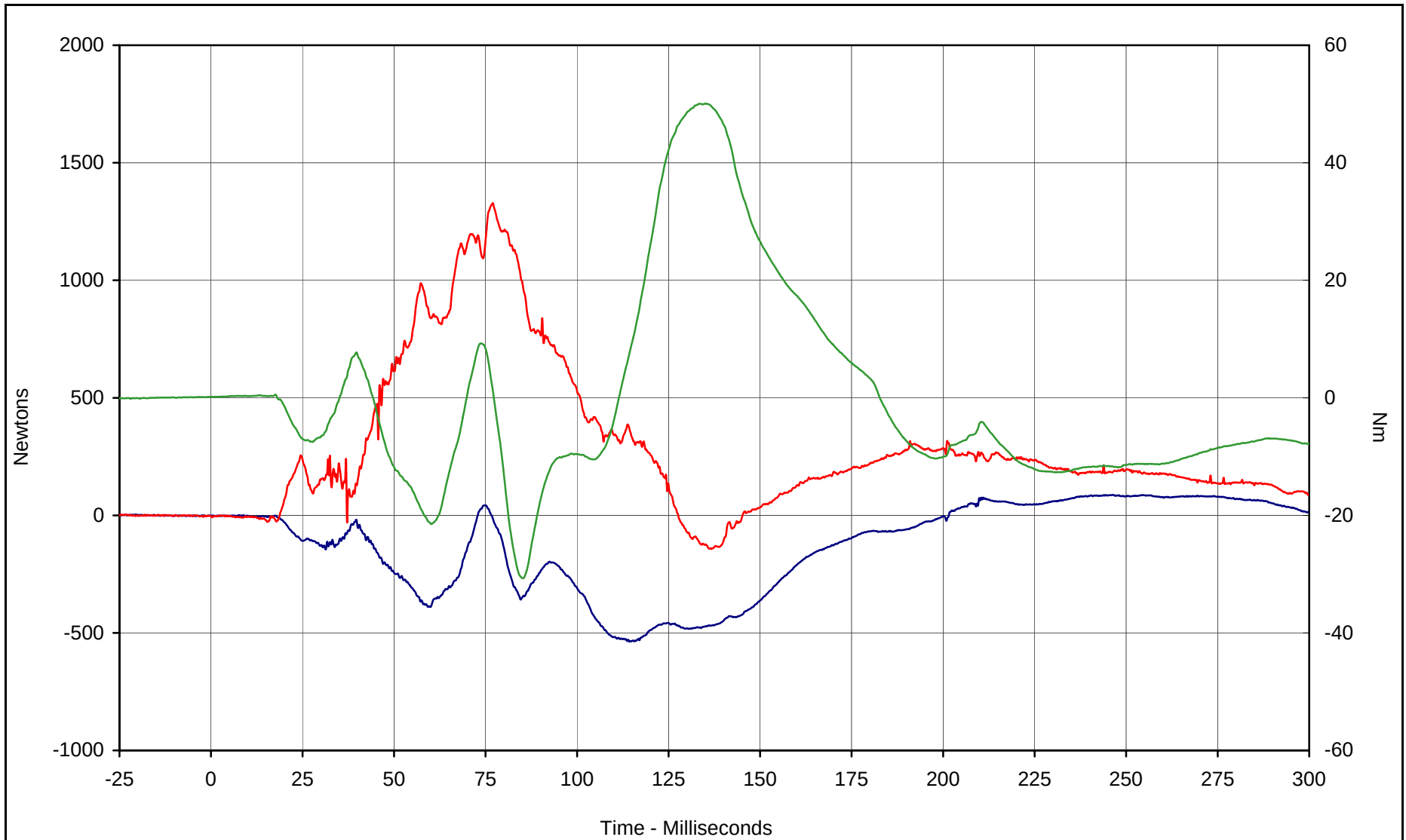


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|-------------------------------|-------|------|---------|--------|-------|--------|-------|-----------|
| Passenger Upper Neck Force X  | 051   | FIL  | Newtons | 87.1   | 246.4 | -537.3 | 114.3 | 1000      |
| Passenger Upper Neck Force Z  | 053   | FIL  | Newtons | 1328.5 | 77.0  | -143.3 | 136.6 | 1000      |
| Passenger Upper Neck Moment Y | 055   | FIL  | Nm      | 50.1   | 134.9 | -30.7  | 85.2  | 600       |



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