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**National Highway
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February 1995

Final Report

Final Report of a 1992 Chevrolet Caprice into a Flat Frontal Barrier in Support of CRASH3 Damage Algorithm Reformulation

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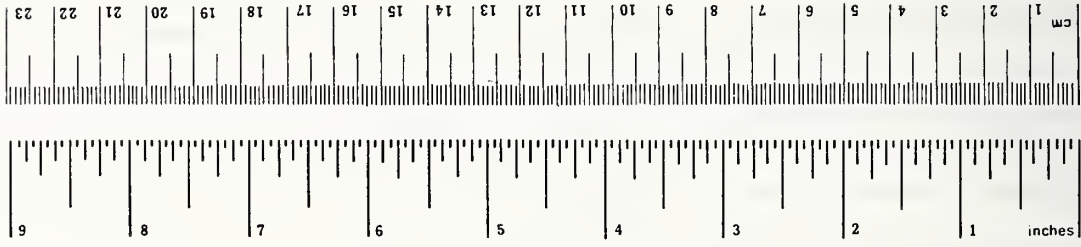
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16. Abstract <p>Five (5) frontal barrier impact tests were conducted for research and development in support of the CRASH3 damage algorithm reformulation. These tests were conducted on a 1992 Chevrolet Caprice, VIN 1G1BL5378NW138176, at Transportation Research Center Inc. on January 19, 1995. The following five tests were conducted on the vehicle:</p> <table border="1"> <thead> <tr> <th>Test No.</th> <th>Date</th> <th>Time</th> <th>Speed (Kph)</th> <th>Maximum Cumulative Crush (mm)</th> </tr> </thead> <tbody> <tr> <td>950119-1</td> <td>01/19/95</td> <td>0930</td> <td>8.5</td> <td>5</td> </tr> <tr> <td>950119-2</td> <td>01/19/95</td> <td>1035</td> <td>15.4</td> <td>49</td> </tr> <tr> <td>950119-3</td> <td>01/19/95</td> <td>1125</td> <td>15.0</td> <td>225</td> </tr> <tr> <td>950119-4</td> <td>01/19/95</td> <td>1335</td> <td>31.5</td> <td>499</td> </tr> <tr> <td>950119-5</td> <td>01/19/95</td> <td>1501</td> <td>55.4</td> <td>963</td> </tr> </tbody> </table>						Test No.	Date	Time	Speed (Kph)	Maximum Cumulative Crush (mm)	950119-1	01/19/95	0930	8.5	5	950119-2	01/19/95	1035	15.4	49	950119-3	01/19/95	1125	15.0	225	950119-4	01/19/95	1335	31.5	499	950119-5	01/19/95	1501	55.4	963
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METRIC CONVERSION FACTORS

Approximate Conversions to Metric Measures			Approximate Conversions from Metric Measures		
Symbol	When You Know	Multiply by	Symbol	When You Know	Multiply by
LENGTH					
in	inches	*2.5	mm	millimeters	0.04
ft	feet	30	cm	centimeters	0.4
yd	yards	0.9	m	meters	3.3
mi	miles	1.6	km	kilometers	1.1
AREA					
in ²	square inches	6.5	cm ²	square centimeters	0.16
ft ²	square feet	0.09	m ²	square meters	1.2
yd ²	square yards	0.8	km ²	square kilometers	0.4
mi ²	square miles	2.6	ha	hectares (10,000 m ²)	2.5
MASS (weight)					
oz	ounces	28	g	grams	0.035
lb	pounds	0.45	kg	kilograms	2.2
	short tons	0.9	t	tonnes (1000 kg)	1.1
	(2000 lb)				
VOLUME					
tsp	teaspoons	5	ml	milliliters	0.03
Tbsp	tablespoons	15	l	liters	2.1
fl oz	fluid ounces	30	qt	quarts	1.06
c	cups	0.24	l	liters	0.26
pt	pints	0.47	m ³	cubic meters	35
qt	quarts	0.95	m ³	cubic meters	1.3
gal	gallons	3.8			
ft ³	cubic feet	0.03			
yd ³	cubic yards	0.76			
TEMPERATURE (exact)					
°F	Fahrenheit temperature	5/9 (after subtracting 32)	°C	Celsius temperature	9/5 (then add 32)
TEMPERATURE (exact)					
	Fahrenheit temperature		°F	Fahrenheit temperature	



*1 in = 2.54 (exactly). For other exact conversions and more detailed tables, see NBS Misc. Publ. 286, Units of Weights and Measures, Price \$2.25, SD Catalog No. C13.10-286.

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Section 1.0

Purpose and Test Procedure

Purpose and Test Procedure

The purpose of the five (5) flat frontal barrier impact tests was for research and development in support of the CRASH3 damage algorithm reformulation.

The 1992 Chevrolet Caprice was equipped with a 5.7-liter, 8-cylinder, inline, gasoline engine with a 3-speed automatic transmission. A third axle was placed 660 mm behind the vehicle's front wheel centerline to raise the front wheels so that it could withstand five (5) impacts. The test weight of the vehicle with third axle was 1905 kilograms.

The vehicle was instrumented with eleven (11) accelerometers oriented to measure vehicle X-, Y-, and Z-axis accelerations.

Each crash test event was recorded by three (3) high-speed motion picture cameras operating at approximately 1000 frames per second.

Section 2.0

Vehicle and Test Data

Table 1 Test Vehicle Information, Cont'd.

Tires On Vehicle (Mfr., Line, Size): General, P235/70R15

Tire Pressure With Maximum Capacity Vehicle Load: Front: 240 kPa
Rear: 240 kPa

Spare Tire (Mfr., Line, Size): The vehicle did not contain a spare tire.

Type Of Seats: Front: Bench
Rear: Bench

Type Of Front Seat Backs: Adjustable

Maximum Width: 1980 mm

Wheelbase: 2955 mm

Location of Label Stating Tire Data:

The label was located on the driver's door.

Tire & Capacity Data From Vehicle's Label:

Recommended Tire Size: P235/70R15

Recommended Cold Tire Pressure: Front: 35 psi; Rear: 35 psi

Designated Seating Capacity: 3 Front 3 Rear 6 Total

Vehicle Capacity Weight: 1100 lbs.

¹ Pre-test attitude measured with third axle installed.

Table 1 Test Vehicle Information, Cont'd.

Weight Of Test Vehicle¹:

Right Front ²	669	kg	Right Rear	279	kg
Left Front ²	704	kg	Left Rear	253	kg
Total Front Weight ²	1373	kg	(72.1% Of Total Vehicle Weight)		
Total Rear Weight	532	kg	(27.9% Of Total Vehicle Weight)		
Total Test Weight ¹	1905	kg			

Weight of ballast secured in vehicle cargo area: 0 kg

Components removed to meet target test weight: None

CG = 1301 mm rearward of front wheel centerline

¹ Weight of third axle included in total test weight.

² The front wheel weights are for third axle wheels.

TABLE 2
CRUSH MEASUREMENTS AT VEHICLE BUMPER HEIGHT 411 MM

LOCATION	0	1	2	3	4	5	6	7
PRE-TEST	2939	2862	2788	2710	2634	2555	2478	2402
POST-TEST 1	2939	2862	2788	2710	2634	2555	2478	2402
POST-TEST 2	2939	2862	2788	2710	2634	2555	2478	2402
POST-TEST 3	2941	2861	2787	2708	2633	2557	2483	2406
POST-TEST 4	2929	2852	2778	2702	2625	2549	2474	2399
POST-TEST 5	2946	2875	2800	2724	2649	2573	2502	2421

LOCATION	8	9	10	11	12	13	14	15
PRE-TEST	2327	2252	2176	2100	2026	1950	1875	1801
POST-TEST 1	2327	2252	2176	2100	2026	1950	1875	1801
POST-TEST 2	2327	2252	2176	2100	2026	1950	1868	1792
POST-TEST 3	2331	2256	2181	2111	2036	1955	1877	1801
POST-TEST 4	2324	2248	2172	2098	2024	1949	1873	1794
POST-TEST 5	2348	2273	2200	2125	2051	1977	1890	1809

LOCATION	16	17	18	19	20	21	22	23
PRE-TEST	1726	1652	1581	1507	1434	1359	1281	1205
POST-TEST 1	1726	1652	1581	1507	1434	1359	1281	1201
POST-TEST 2	1714	1639	1569	1505	1426	1357	1279	1200
POST-TEST 3	1722	1648	1569	1504	1429	1355	1280	1200
POST-TEST 4	1715	1645	1569	1515	1452	1380	1307	1230
POST-TEST 5	NA	1761	1694	1627	1573	1521	1451	1392

All measurements are in millimeters. Column readings are 75 millimeters apart starting on the left side of the vehicle.

All X-axis measurements taken from a reference plane 5454 millimeters from and parallel to the rear bumper.

All Y-axis measurements taken from a reference plane 1372 millimeters from and parallel to the vehicle's longitudinal centerline

TABLE 2, CONTINUED
 CRUSH MEASUREMENTS AT VEHICLE BUMPER HEIGHT 411 MM

LOCATION	24	25	26	27	28	29	30	31
	X	Y	X	Y	X	Y	X	Y
PRE-TEST	1127	462	1050	464	975	469	822	487
POST-TEST 1	1124	471	1049	472	972	484	824	495
POST-TEST 2	1124	464	1054	473	978	475	822	491
POST-TEST 3	1125	452	1060	462	978	458	833	468
POST-TEST 4	1156	429	1080	427	1014	425	872	460
POST-TEST 5	1316	236	1249	212	1195	197	1187	319

LOCATION	32	33	34	35	36	37	38	39
	X	Y	X	Y	X	Y	X	Y
PRE-TEST	521	514	445	525	373	549	257	640
POST-TEST 1	510	515	433	530	362	553	245	643
POST-TEST 2	509	491	441	513	368	541	266	639
POST-TEST 3	532	525	454	566	454	566	391	580
POST-TEST 4	609	578	602	654	602	654	643	655
POST-TEST 5	1098	612	1111	688	1111	688	1131	650

LOCATION	40	41	42	43	44	45	46	47
	X	Y	X	Y	X	Y	X	Y
PRE-TEST	166	926	154	998	143	1073	136	1224
POST-TEST 1	161	937	150	1010	143	1084	133	1238
POST-TEST 2	187	924	173	1001	174	1077	174	1232
POST-TEST 3	338	872	353	943	325	1021	336	1196
POST-TEST 4	599	945	616	1015	603	1085	604	1262
POST-TEST 5	1064	916	1070	987	1056	1066	1080	1243

All measurements are in millimeters. Column readings are 75 millimeters apart starting on the left side of the vehicle.

All X-axis measurements taken from a reference plane 5454 millimeters from and parallel to the rear bumper.

All Y-axis measurements taken from a reference plane 1372 millimeters from and parallel to the vehicle's longitudinal centerline

TABLE 2, CONTINUED
CRUSH MEASUREMENTS AT VEHICLE BUMPER HEIGHT 411 MM

LOCATION	48	49	50	51	52	53	54	55								
PRE-TEST	X 140	Y 1530	X 146	Y 1608	X 152	Y 1690	X 161	Y 1764	X 172	Y 1840	X 192	Y 1916	X 205	Y 1991	X 219	Y 2067
POST-TEST 1	X 134	Y 1544	X 139	Y 1617	X 144	Y 1691	X 152	Y 1766	X 164	Y 1840	X 180	Y 1907	X 194	Y 1988	X 207	Y 2060
POST-TEST 2	X 181	Y 1531	X 180	Y 1603	X 186	Y 1677	X 189	Y 1752	X 189	Y 1829	X 204	Y 1903	X 207	Y 1976	X 217	Y 2048
POST-TEST 3	X 339	Y 1516	X 343	Y 1593	X 344	Y 1670	X 337	Y 1747	X 379	Y 1816	X 359	Y 1892	X 358	Y 1969	X 373	Y 2041
POST-TEST 4	X 621	Y 1554	X 615	Y 1631	X 628	Y 1706	X 628	Y 1784	X 653	Y 1852	X 623	Y 1932	X 610	Y 2004	X 630	Y 2080
POST-TEST 5	X 1083	Y 1534	X 1081	Y 1613	X 1078	Y 1690	X 1075	Y 1766	X 1107	Y 1836	X 1083	Y 1915	X 1087	Y 1993	X 1109	Y 2061

LOCATION	56	57	58	59	60	61	62	63								
PRE-TEST	X 237	Y 2139	X 284	Y 2193	X 350	Y 2226	X 425	Y 2247	X 501	Y 2265	X 575	Y 2275	X 650	Y 2279	X 725	Y 2287
POST-TEST 1	X 237	Y 2127	X 282	Y 2173	X 340	Y 2237	X 412	Y 2268	X 491	Y 2278	X 565	Y 2281	X 642	Y 2288	X 717	Y 2298
POST-TEST 2	X 239	Y 2118	X 285	Y 2181	X 347	Y 2236	X 417	Y 2256	X 491	Y 2273	X 568	Y 2278	X 643	Y 2279	X 716	Y 2278
POST-TEST 3	X 387	Y 2120	X 418	Y 2190	X 418	Y 2190	X 499	Y 2198	X 499	Y 2198	X 568	Y 2227	X 637	Y 2249	X 719	Y 2261
POST-TEST 4	X 636	Y 2162	X 675	Y 2225	X 675	Y 2225	X 630	Y 2191	X 630	Y 2191	X 627	Y 2291	X 704	Y 2300	X 773	Y 2330
POST-TEST 5	X 1139	Y 2136	X 1195	Y 2191	X 1195	Y 2191	X 1151	Y 2139	X 1151	Y 2139	X 1113	Y 2214	X 1217	Y 2287	X 1246	Y 2330

LOCATION	64	65	66	67	68	69	70	71								
PRE-TEST	X 792	Y 2280	X 862	Y 2303	X 935	Y 2317	X 1009	Y 2317	X 1086	Y 2321	X 1161	Y 2327	X 1238	Y 2327	X 1317	Y 2342
POST-TEST 1	X 790	Y 2299	X 857	Y 2311	X 928	Y 2315	X 1005	Y 2314	X 1082	Y 2321	X 1157	Y 2324	X 1238	Y 2327	X 1317	Y 2342
POST-TEST 2	X 790	Y 2289	X 855	Y 2297	X 927	Y 2315	X 1002	Y 2316	X 1079	Y 2319	X 1152	Y 2317	X 1227	Y 2318	X 1304	Y 2324
POST-TEST 3	X 778	Y 2284	X 849	Y 2305	X 921	Y 2312	X 991	Y 2314	X 1072	Y 2313	X 1154	Y 2316	X 1229	Y 2321	X 1306	Y 2323
POST-TEST 4	X 839	Y 2356	X 914	Y 2386	X 981	Y 2396	X 1047	Y 2396	X 1127	Y 2388	X 1201	Y 2376	X 1277	Y 2346	X 1352	Y 2361
POST-TEST 5	X 1271	Y 2372	X 1266	Y 2393	X 1238	Y 2384	X 1196	Y 2417	X 1241	Y 2422	X 1306	Y 2409	X 1376	Y 2384	X 1439	Y 2368

All measurements are in millimeters. Column readings are 75 millimeters apart starting on the left side of the vehicle.

All X-axis measurements taken from a reference plane 5454 millimeters from and parallel to the rear bumper.

All Y-axis measurements taken from a reference plane 1372 millimeters from and parallel to the vehicle's longitudinal centerline

TABLE 2, CONTINUED
CRUSH MEASUREMENTS AT VEHICLE BUMPER HEIGHT 411 MM

LOCATION	72	73	74	75	76	77	78	79
	X	Y	X	Y	X	Y	X	Y
PRE-TEST	1391	2340	1461	2333	1535	2331	1610	2331
POST-TEST 1	1391	2340	1461	2333	1535	2331	1610	2331
POST-TEST 2	1379	2331	1454	2326	1534	2329	1604	2334
POST-TEST 3	1376	2323	1450	2324	1525	2308	1602	2321
POST-TEST 4	1425	2257	1489	2358	1553	2346	1615	2343
POST-TEST 5	1497	2259	1545	2326	1590	2301	1640	2313

LOCATION	80	81	82	83	84	85	86	87
	X	Y	X	Y	X	Y	X	Y
PRE-TEST	1990	2344	2064	2347	2140	2347	2215	2350
POST-TEST 1	1990	2344	2064	2347	2140	2347	2215	2350
POST-TEST 2	1990	2344	2064	2347	2140	2347	2215	2350
POST-TEST 3	1979	2335	2053	2344	2128	2341	2209	2335
POST-TEST 4	1981	2346	1256	2349	2132	2348	2209	2350
POST-TEST 5	2001	2340	2077	2339	2152	2344	2227	2343

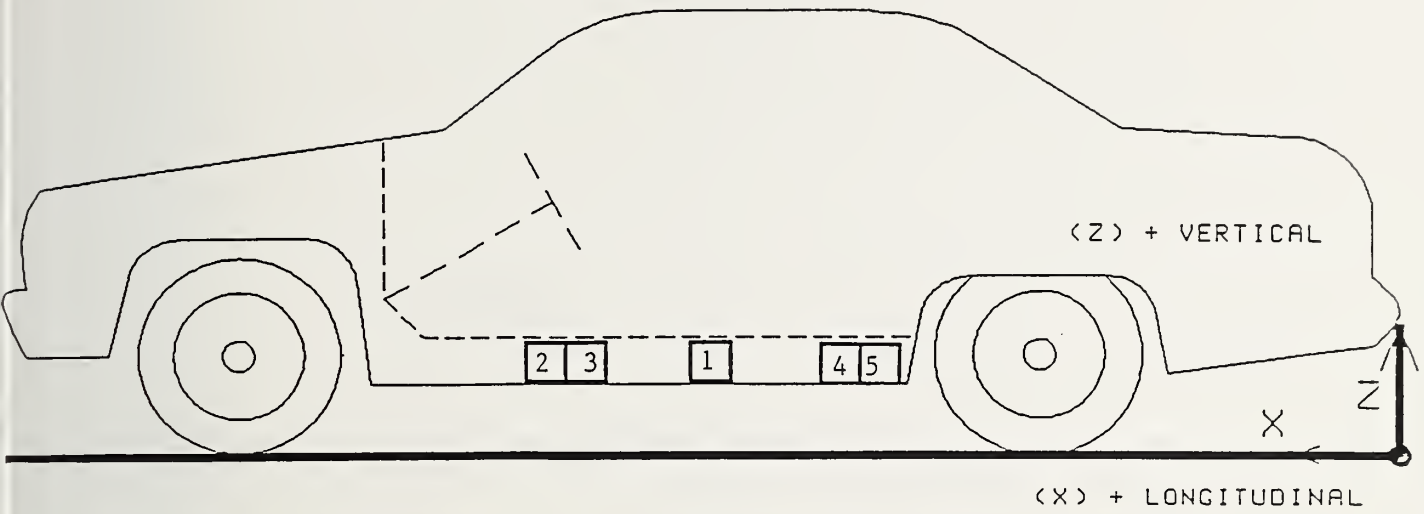
LOCATION	88	89	90	91	92	93	94	95
	X	Y	X	Y	X	Y	X	Y
PRE-TEST	2596	2356	2668	2356	2745	2356	2819	2357
POST-TEST 1	2596	2356	2668	2356	2745	2356	2819	2357
POST-TEST 2	2596	2356	2668	2356	2745	2356	2819	2357
POST-TEST 3	2584	2343	2652	2339	2733	2343	2806	2342
POST-TEST 4	2588	2357	2661	2360	2737	2355	2811	2353
POST-TEST 5	2609	2354	2681	2353	2757	2355	2831	2357

All measurements are in millimeters. Column readings are 75 millimeters apart starting on the left side of the vehicle.

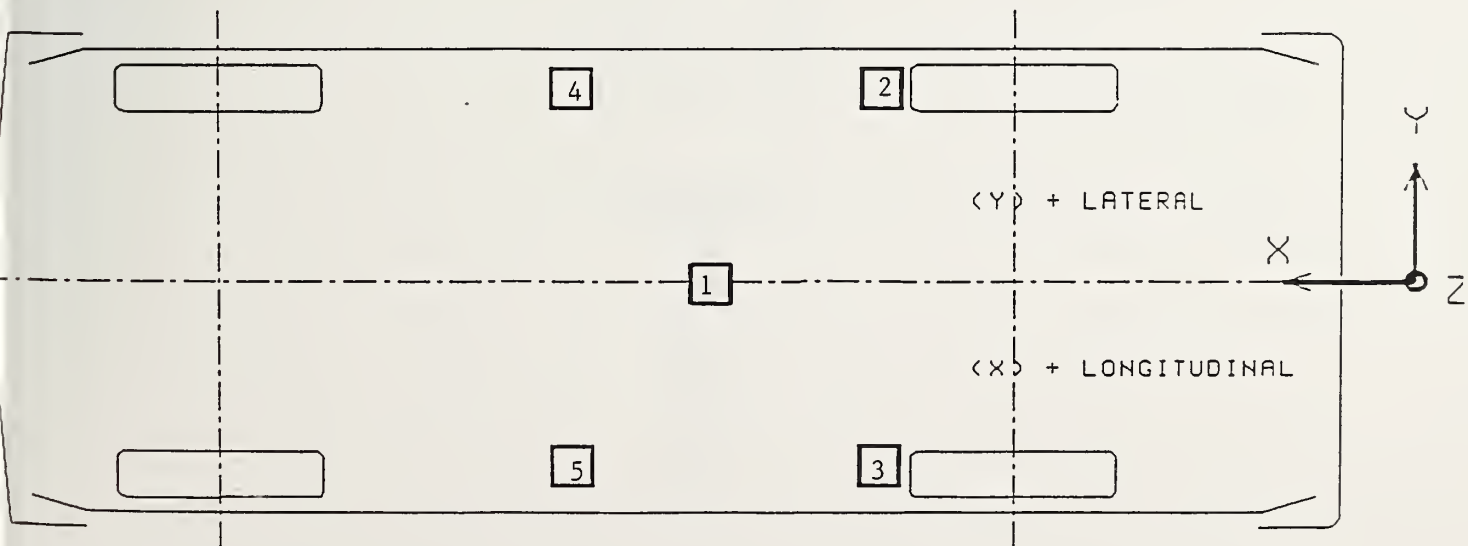
All X-axis measurements taken from a reference plane 5454 millimeters from and parallel to the rear bumper.

All Y-axis measurements taken from a reference plane 1372 millimeters from and parallel to the vehicle's longitudinal centerline

Figure 1 Vehicle Accelerometer Placement

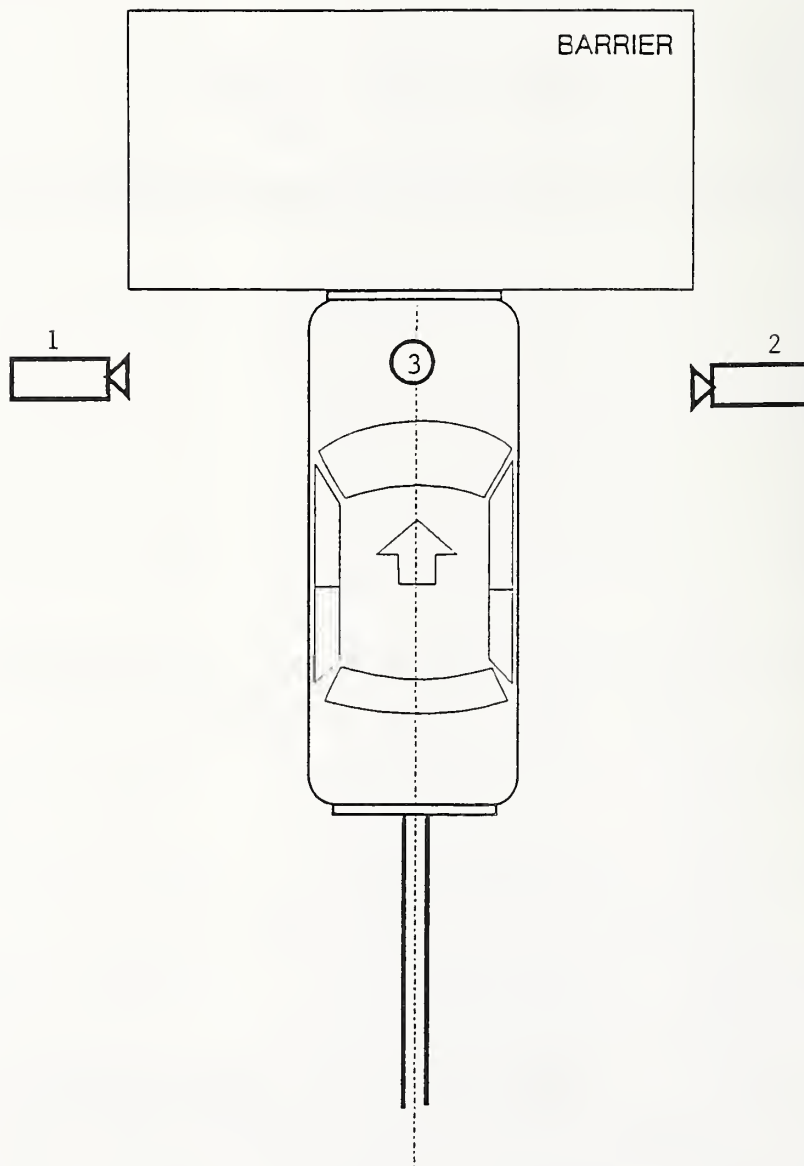


SIDE VIEW



BOTTOM VIEW

Figure 2 Camera Positions



Section 3.0

Test 950119-1 Summary

Table 3 Test Conditions

Test No. 950119-1

Date of test: 01/19/95

Time of test: 09:30

Ambient temperature at impact area: 21° C

Intended impact velocity: 8.0 kph

Actual impact velocity: Primary = 8.5 kph
Secondary = 8.5 kph

Subject Vehicle Data

Length of direct contact damage: 671 mm

Maximum cumulative crush at
vehicle bumper height: 5 mm

Vehicle Attitudes:

Post-Test: LF: 928; RF: 921; LR: 605; RR: 590

All distance measurements are in millimeters.

Table 4 Vehicle Crush At Vehicle Bumper Height

Test No. 950119-1

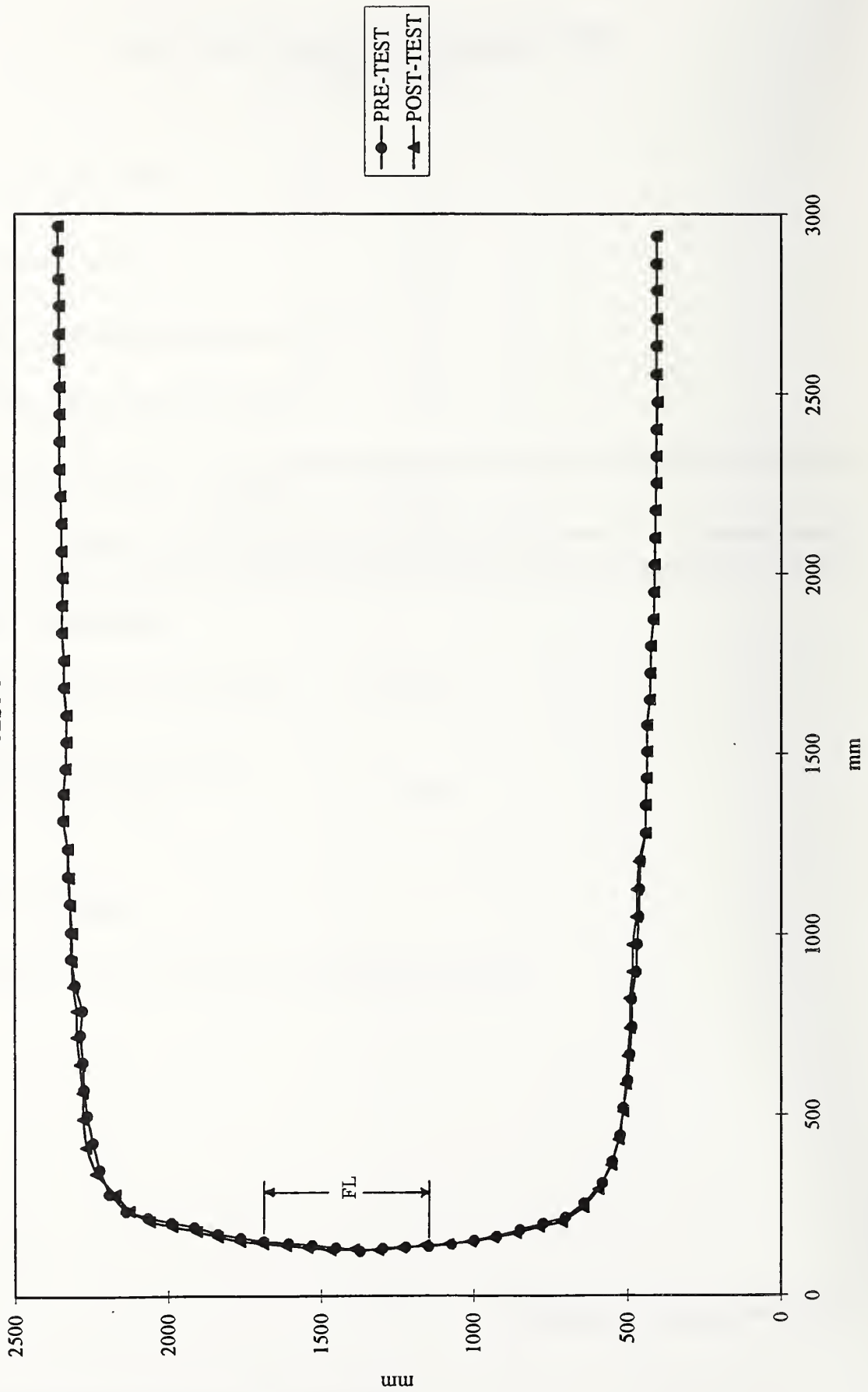
FL	=	529
C1	=	3
C2	=	-4
C3	=	3
C4	=	-7
C5	=	-8
C6	=	-8

NOTE: FL is the post-test length of the damaged surface.

Measurements C1 - C6 were spaced equally apart over the post-impact length of the damaged surface. This distance is defined as length "FL" on the vehicle crush profile plot.

All measurements are in millimeters.

FIGURE 3
VEHICLE PROFILE AT BUMPER HEIGHT
TEST 1



● PRE-TEST
▲ POST-TEST

Table 5 Impacted Vehicle Measurements

Test No.: 950119-1

Vehicle Make/Model: Chevrolet/Caprice

No.	Type of measurement	Pre-test	Post-test	Diff.
X1	Total length of vehicle at centerline	5329	5324	5
X2	Rear surface of vehicle to front of engine block	4415	4415	0
X3	Rear surface of vehicle to firewall	4014	4014	0
X4	Rear surface of vehicle to upper leading edge of right door	3707	3707	0
X5	Rear surface of vehicle to upper leading edge of left door	3719	3719	0
X6	Rear surface of vehicle to lower leading edge of right door	3692	3692	0
X7	Rear surface of vehicle to lower leading edge of left door	3699	3699	0
X8	Rear surface of vehicle to upper trailing edge of right door	2493	2493	0
X9	Rear surface of vehicle to upper trailing edge of left door	2502	2502	0
X10	Rear surface of vehicle to lower trailing edge of right door	2524	2524	0
X11	Rear surface of vehicle to lower trailing edge of left door	2533	2533	0
X12	Rear surface of vehicle to bottom of "A" post on right side	3580	3580	0
X13	Rear surface of vehicle to bottom of "A" post on left side	3606	3606	0
X14	Rear surface of vehicle to firewall - right side	3920	3920	0
X15	Rear surface of vehicle to firewall - left side	3895	3895	0
X16	Rear surface of vehicle to steering wheel center	3060	3060	0
X17	Center of steering column to "A" post	298	298	0
X18	Center of steering column to headliner	414	414	0
X19	Rear surface of vehicle to right side of front bumper	5230	5232	-2
X20	Rear surface of vehicle to left side of front bumper	5225	5236	-11
X21	Length of engine block	495	495	0

All measurements are in millimeters.

Table 6 Vehicle Accelerometer Locations And Data Summary

TEST NUMBER: 950119-1	X	Y	Z	POSITIVE DIRECTION	NEGATIVE DIRECTION
No. LOCATION					
1 VEHICLE CENTER OF GRAVITY	3114 mm	50 mm	572 mm		
LONGITUDINAL				0.7 g @ 205.4 ms	4.4 g @ 60.2 ms
LATERAL				1.1 g @ 248.6 ms	0.6 g @ 60.8 ms
VERTICAL				2.3 g @ 72.5 ms	3.4 g @ 159.0 ms
RESULTANT				4.9 g @ 72.2 ms	
2 LEFT REAR SEAT	2115 mm	715 mm	500 mm		
LONGITUDINAL				0.5 g @ 214.0 ms	3.7 g @ 71.1 ms
LATERAL				0.5 g @ 102.4 ms	0.5 g @ 160.6 ms
3 RIGHT REAR SEAT	2164 mm	-709 mm	500 mm		
LONGITUDINAL				1.1 g @ 144.6 ms	3.4 g @ 70.7 ms
LATERAL				1.0 g @ 29.2 ms	0.5 g @ 298.2 ms
4 LEFT FRONT SILL	3238 mm	730 mm	541 mm		
LONGITUDINAL				0.7 g @ 205.0 ms	4.3 g @ 59.7 ms
LATERAL				1.0 g @ 242.6 ms	1.2 g @ 93.4 ms
5 RIGHT FRONT SILL	3184 mm	-680 mm	524 mm		
LONGITUDINAL				0.6 g @ 249.1 ms	4.5 g @ 59.4 ms
LATERAL				1.0 g @ 50.1 ms	0.7 g @ 242.6 ms

REFERENCE: X: + FORWARD FROM VEHICLE'S REAR BUMPER
 Y: + LEFTWARD FROM VEHICLE'S LONGITUDINAL CENTERLINE
 Z: + UPWARD FROM GROUND LEVEL

Table 7 Camera Information

Test No. 950119-1

<u>Camera Number</u>	<u>Location</u>	<u>Type</u>	<u>Lens (mm)</u>	<u>Speed (fps)</u>	<u>Purpose of Camera Data</u>
1	Left tight	Photosonic	25	1008	Impact overall
2	Right tight	Photosonic	25	1005	Impact overall
3	Overhead	Photosonic	25	1000	Impact overall



Section 4.0

Test 950119-2 Summary

Table 9 Vehicle Crush At Vehicle Bumper Height

Test No. 950119-2

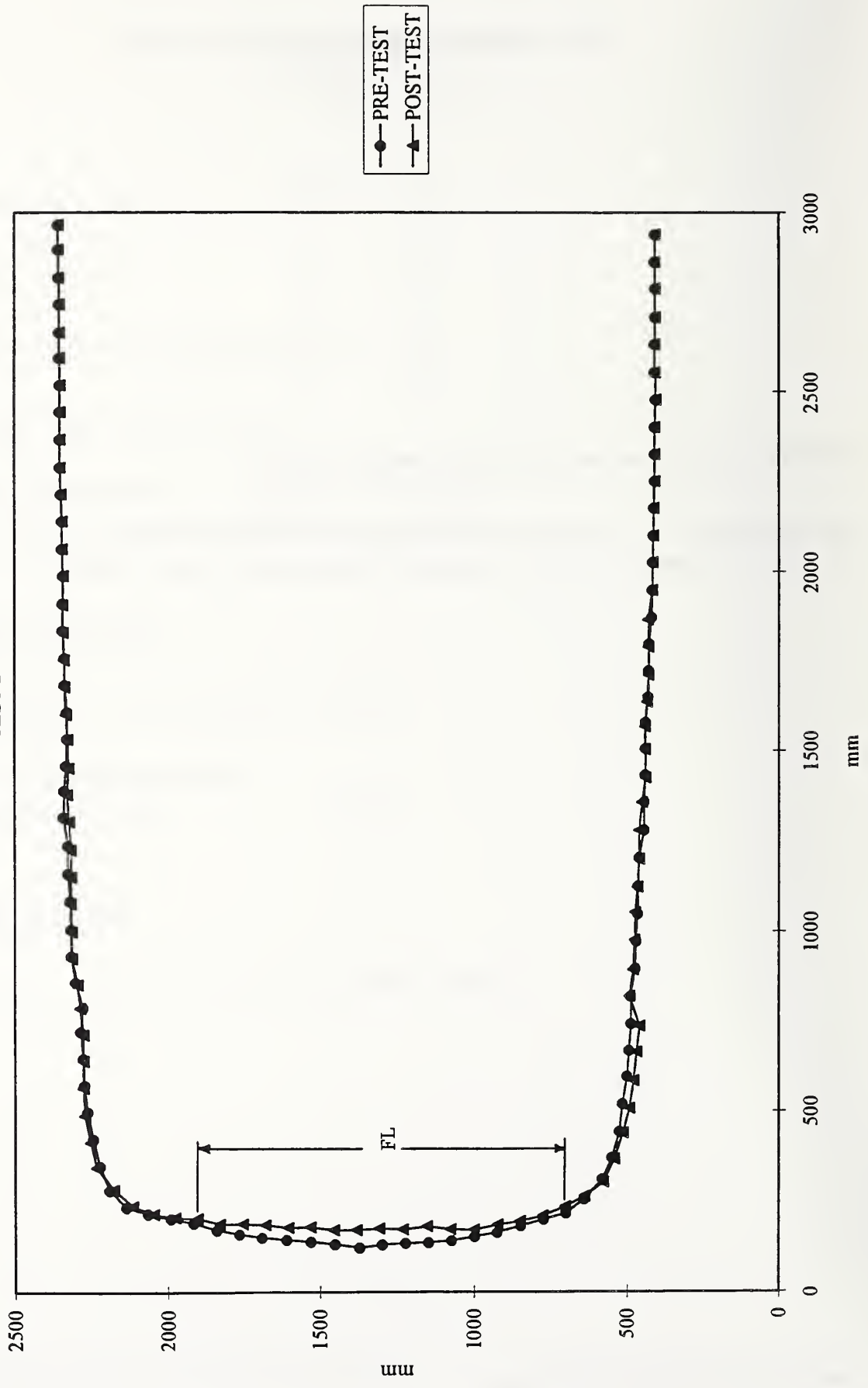
FL	=	1200
C1	=	17
C2	=	21
C3	=	42
C4	=	43
C5	=	34
C6	=	12

NOTE: FL is the post-test length of the damaged surface.

Measurements C1 - C6 were spaced equally apart over the post-impact length of the damaged surface. This distance is defined as length "FL" on the vehicle crush profile plot.

All measurements are in millimeters.

FIGURE 4
VEHICLE PROFILE AT BUMPER HEIGHT
TEST 2



● PRE-TEST
▲ POST-TEST

Table 10 Impacted Vehicle Measurements

Test No.: 950119-2

Vehicle Make/Model: Chevrolet/Caprice

No.	Type of measurement	Pre-test	Post-test	Diff.
X1	Total length of vehicle at centerline	5324	5309	15
X2	Rear surface of vehicle to front of engine block	4415	NA ¹	NA ¹
X3	Rear surface of vehicle to firewall	4014	NA ¹	NA ¹
X4	Rear surface of vehicle to upper leading edge of right door	3707	3675	32
X5	Rear surface of vehicle to upper leading edge of left door	3719	3712	7
X6	Rear surface of vehicle to lower leading edge of right door	3692	3679	13
X7	Rear surface of vehicle to lower leading edge of left door	3699	3694	5
X8	Rear surface of vehicle to upper trailing edge of right door	2493	2460	33
X9	Rear surface of vehicle to upper trailing edge of left door	2502	2566	-64
X10	Rear surface of vehicle to lower trailing edge of right door	2524	2511	13
X11	Rear surface of vehicle to lower trailing edge of left door	2533	2523	10
X12	Rear surface of vehicle to bottom of "A" post on right side	3580	3578	2
X13	Rear surface of vehicle to bottom of "A" post on left side	3606	3591	15
X14	Rear surface of vehicle to firewall - right side	3920	NA ¹	NA ¹
X15	Rear surface of vehicle to firewall - left side	3895	NA ¹	NA ¹
X16	Rear surface of vehicle to steering wheel center	3060	3059	1
X17	Center of steering column to "A" post	298	344	-46
X18	Center of steering column to headliner	414	400	14
X19	Rear surface of vehicle to right side of front bumper	5232	5246	-14
X20	Rear surface of vehicle to left side of front bumper	5236	5244	-8
X21	Length of engine block	495	495	0

¹ The vehicle's crush obstructed the measurement.

All measurements are in millimeters.

Table 11 Vehicle Accelerometer Locations And Data Summary

TEST NUMBER: 950119-2	X	Y	Z	POSITIVE DIRECTION	NEGATIVE DIRECTION
No. LOCATION					
1 VEHICLE CENTER OF GRAVITY	3114 mm	50 mm	572 mm		
LONGITUDINAL LATERAL				2.6 g @ 27.1 ms	13.4 g @ 31.9 ms
VERTICAL RESULTANT				1.8 g @ 49.6 ms	3.5 g @ 72.9 ms
				18.7 g @ 55.6 ms	7.7 g @ 28.2 ms
				22.5 g @ 55.5 ms	
2 LEFT REAR SEAT	2115 mm	715 mm	500 mm		
LONGITUDINAL LATERAL				0.9 g @ 26.8 ms	11.8 g @ 54.9 ms
				4.5 g @ 30.9 ms	2.7 g @ 74.0 ms
3 RIGHT REAR SEAT	2164 mm	-709 mm	500 mm		
LONGITUDINAL LATERAL				1.6 g @ 27.2 ms	12.8 g @ 68.8 ms
				4.9 g @ 35.8 ms	2.2 g @ 30.9 ms
4 LEFT FRONT SILL	3238 mm	730 mm	541 mm		
LONGITUDINAL LATERAL				1.4 g @ 26.6 ms	12.1 g @ 55.0 ms
				2.4 g @ 68.0 ms	3.1 g @ 72.8 ms
5 RIGHT FRONT SILL	3184 mm	-680 mm	524 mm		
LONGITUDINAL LATERAL				1.2 g @ 27.3 ms	13.1 g @ 68.7 ms
				4.6 g @ 33.1 ms	2.5 g @ 66.6 ms

REFERENCE: X: + FORWARD FROM VEHICLE'S REAR BUMPER
 Y: + LEFTWARD FROM VEHICLE'S LONGITUDINAL CENTERLINE
 Z: + UPWARD FROM GROUND LEVEL

Table 12 Camera Information

Test No. 950119-2

<u>Camera Number</u>	<u>Location</u>	<u>Type</u>	<u>Lens (mm)</u>	<u>Speed (fps)</u>	<u>Purpose of Camera Data</u>
1	Left tight	Photosonic	25	1002	Impact overall
2	Right tight	Photosonic	25	1005	Impact overall
3	Overhead	Photosonic	25	1000	Impact overall



Section 5.0

Test 950119-3 Summary

Table 13 Test Conditions

Test No. 950119-3

Date of test: 01/19/95

Time of test: 11:25

Ambient temperature at impact area: 21° C

Intended impact velocity: 16.0 kph

Actual impact velocity: Primary = 15.0 kph
 Secondary = 15.0 kph

Subject Vehicle Data

Length of direct contact damage: 1581 mm

Maximum cumulative crush at
vehicle bumper height: 225 mm

Vehicle Attitudes:

Post-test: LF: 938; RF: 934; LR: 598; RR: 582

All distance measurements are in millimeters.

Table 14 Vehicle Crush At Vehicle Bumper Height

Test No. 950119-3

FL	=	1389
C1	=	134
C2	=	191
C3	=	200
C4	=	198
C5	=	206
C6	=	153

NOTE: FL is post-test length of damaged surface.

Measurements C1 - C6 were spaced equally apart over the post-impact length of the damaged surface. This distance is defined as length "FL" on the vehicle crush profile plot.

All measurements are in millimeters.

FIGURE 5
VEHICLE PROFILE AT BUMPER HEIGHT
TEST 3

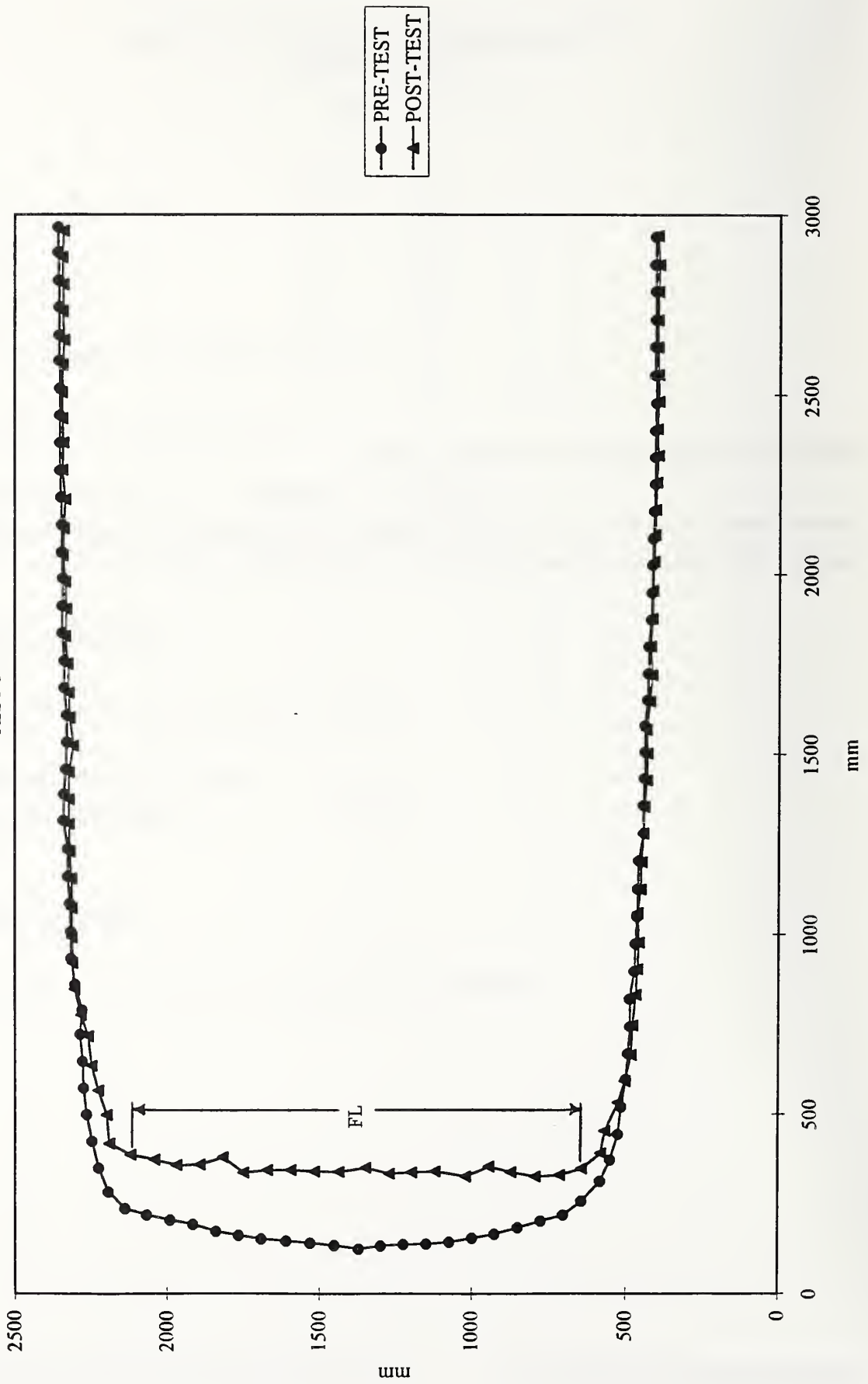


Table 15 Impacted Vehicle Measurements

Test No.: 950119-3

Vehicle Make/Model: Chevrolet/Caprice

No.	Type of measurement	Pre-test	Post-test	Diff.
X1	Total length of vehicle at centerline	5309	5096	213
X2	Rear surface of vehicle to front of engine block	NA ¹	NA ¹	NA ¹
X3	Rear surface of vehicle to firewall	NA ¹	NA ¹	NA ¹
X4	Rear surface of vehicle to upper leading edge of right door	3675	3744	-69
X5	Rear surface of vehicle to upper leading edge of left door	3712	3703	9
X6	Rear surface of vehicle to lower leading edge of right door	3679	3693	-14
X7	Rear surface of vehicle to lower leading edge of left door	3694	3700	-6
X8	Rear surface of vehicle to upper trailing edge of right door	2460	2524	-64
X9	Rear surface of vehicle to upper trailing edge of left door	2566	2486	80
X10	Rear surface of vehicle to lower trailing edge of right door	2511	2524	-13
X11	Rear surface of vehicle to lower trailing edge of left door	2523	2528	-5
X12	Rear surface of vehicle to bottom of "A" post on right side	3578	3614	-36
X13	Rear surface of vehicle to bottom of "A" post on left side	3591	3592	-1
X14	Rear surface of vehicle to firewall - right side	NA ¹	NA ¹	NA ¹
X15	Rear surface of vehicle to firewall - left side	NA ¹	NA ¹	NA ¹
X16	Rear surface of vehicle to steering wheel center	3059	3100	-41
X17	Center of steering column to "A" post	344	344	0
X18	Center of steering column to headliner	400	413	-13
X19	Rear surface of vehicle to right side of front bumper	5246	5027	219
X20	Rear surface of vehicle to left side of front bumper	5244	5054	190
X21	Length of engine block	495	495	0

¹ The vehicle's crush obstructed the measurement.

All measurements are in millimeters.

Table 17 Camera Information

Test No. 950119-3

<u>Camera Number</u>	<u>Location</u>	<u>Type</u>	<u>Lens (mm)</u>	<u>Speed (fps)</u>	<u>Purpose of Camera Data</u>
1	Left tight	Photosonic	25	1000	Impact overall
2	Right tight	Photosonic	25	1005	Impact overall
3	Overhead	Photosonic	25	1000	Impact overall



Section 6.0

Test 950119-4 Summary

Table 18 Test Conditions

Test No. 950119-4

Date of test: 01/19/95

Time of test: 13:35

Ambient temperature at impact area: 21° C

Intended impact velocity: 32.2 kph

Actual impact velocity: Primary = 31.5 kph
 Secondary = 31.5 kph

Subject Vehicle Data

Length of direct contact damage: 1600 mm

Maximum cumulative crush at
vehicle bumper height: 499 mm

Vehicle Attitudes:

Post-test: LF: 999; RF: 1010; LR: 580; RR: 593

All distance measurements are in millimeters.

Table 19 Vehicle Crush At Vehicle Bumper Height

Test No. 950119-4

FL	=	1695
C1	=	55
C2	=	401
C3	=	456
C4	=	481
C5	=	460
C6	=	391

NOTE: FL is post-test length of damaged surface.

Measurements C1 - C6 were spaced equally apart over the post-impact length of the damaged surface. This distance is defined as length "FL" on the vehicle crush profile plot.

All measurements are in millimeters.

FIGURE 6
VEHICLE PROFILE AT BUMPER HEIGHT
TEST 4

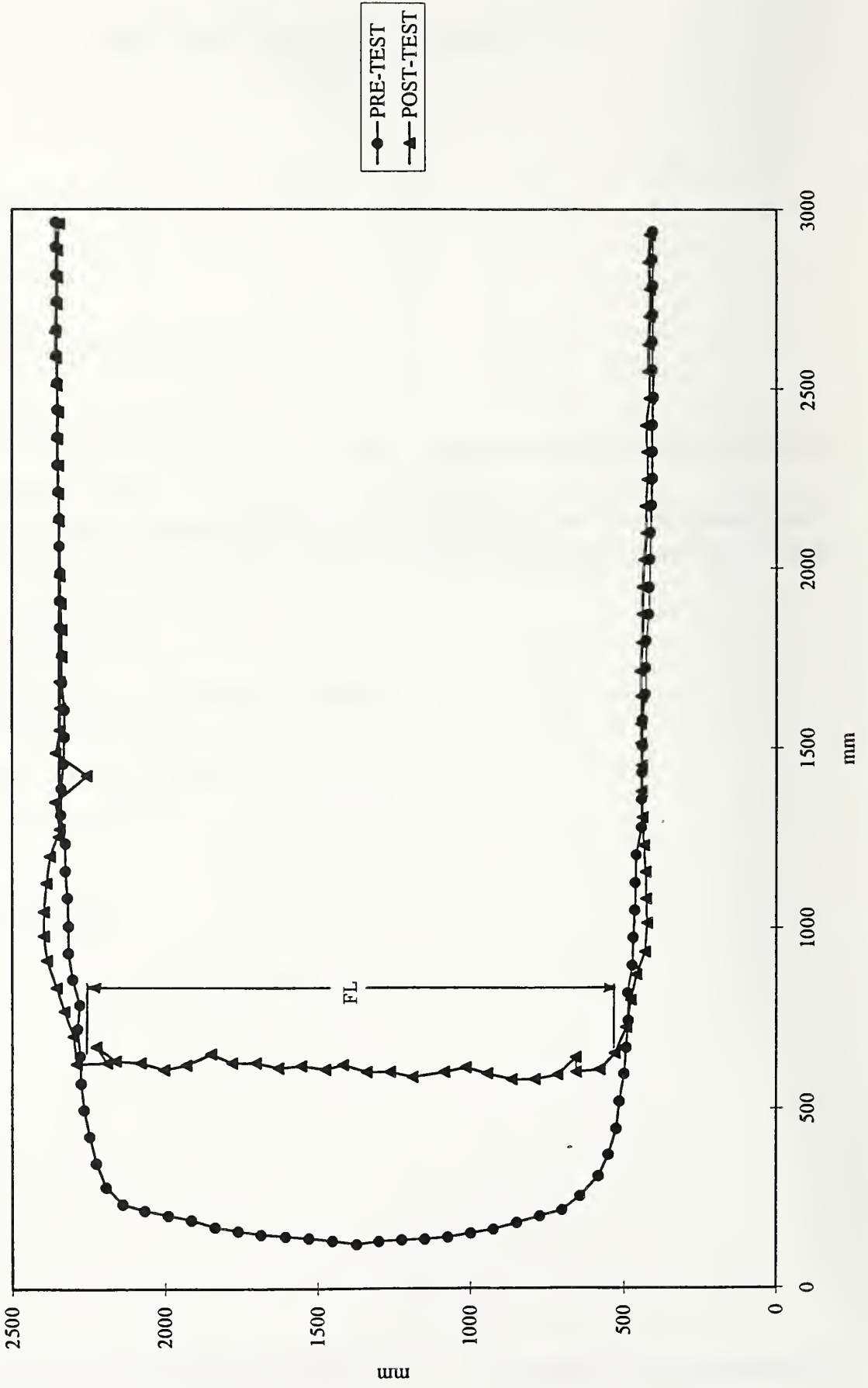


Table 20 Impacted Vehicle Measurements

Test No.: 950119-4

Vehicle Make/Model: Chevrolet/Caprice

No.	Type of measurement	Pre-test	Post-test	Diff.
X1	Total length of vehicle at centerline	5096	4822	274
X2	Rear surface of vehicle to front of engine block	NA ¹	NA ¹	NA ¹
X3	Rear surface of vehicle to firewall	NA ¹	NA ¹	NA ¹
X4	Rear surface of vehicle to upper leading edge of right door	3744	3658	86
X5	Rear surface of vehicle to upper leading edge of left door	3703	3683	20
X6	Rear surface of vehicle to lower leading edge of right door	3693	3719	-26
X7	Rear surface of vehicle to lower leading edge of left door	3700	3707	-7
X8	Rear surface of vehicle to upper trailing edge of right door	2524	2454	70
X9	Rear surface of vehicle to upper trailing edge of left door	2486	2486	0
X10	Rear surface of vehicle to lower trailing edge of right door	2524	2548	-24
X11	Rear surface of vehicle to lower trailing edge of left door	2528	2529	-1
X12	Rear surface of vehicle to bottom of "A" post on right side	3614	3579	35
X13	Rear surface of vehicle to bottom of "A" post on left side	3592	3600	-8
X14	Rear surface of vehicle to firewall - right side	NA ¹	NA ¹	NA ¹
X15	Rear surface of vehicle to firewall - left side	NA ¹	NA ¹	NA ¹
X16	Rear surface of vehicle to steering wheel center	3100	3091	9
X17	Center of steering column to "A" post	344	334	10
X18	Center of steering column to headliner	413	417	-4
X19	Rear surface of vehicle to right side of front bumper	5027	4770	257
X20	Rear surface of vehicle to left side of front bumper	5054	4802	252
X21	Length of engine block	495	495	0

¹ The vehicle's crush obstructed the measurement.

All measurements are in millimeters.

Table 21 Vehicle Accelerometer Locations And Data Summary

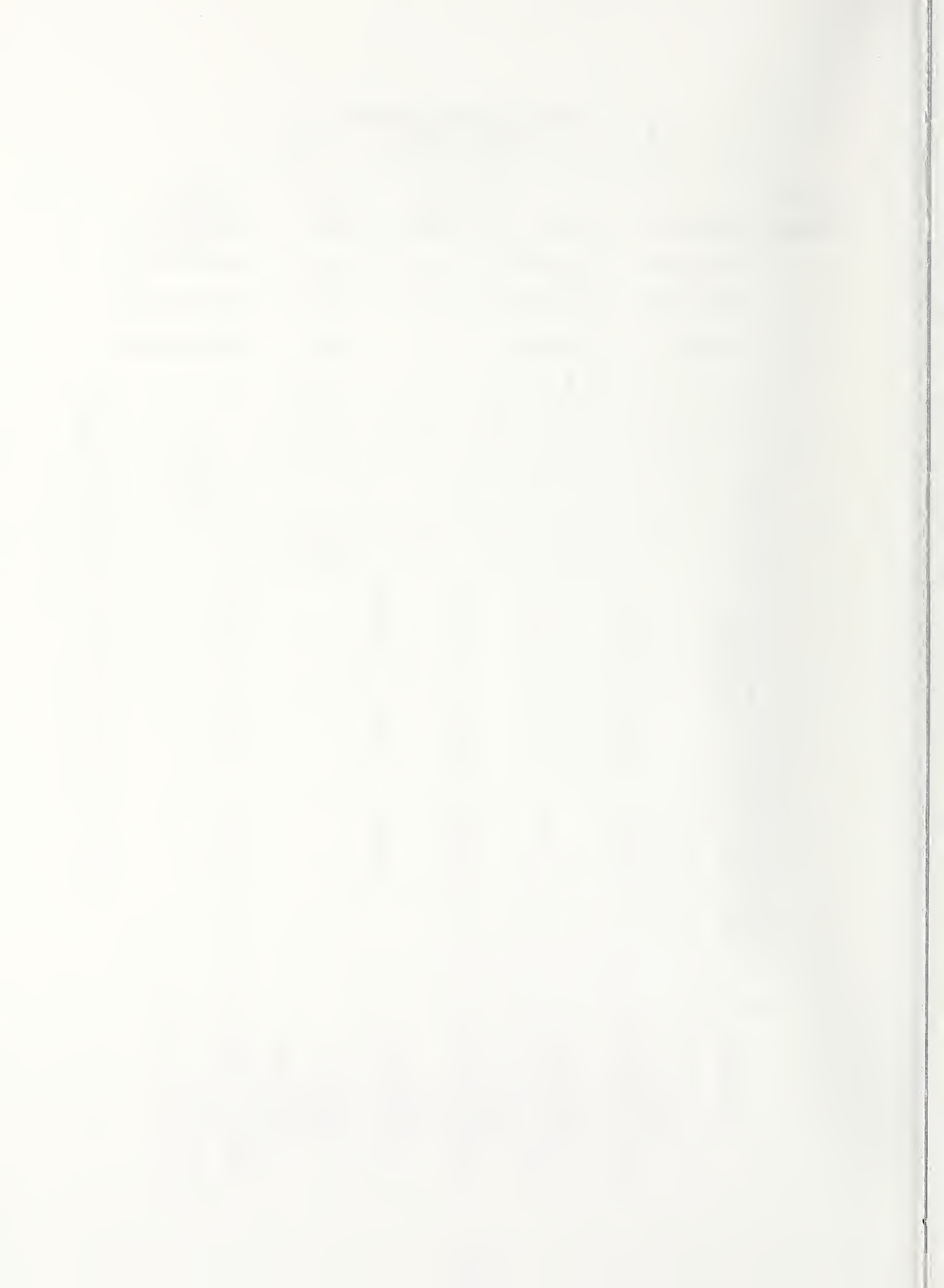
TEST NUMBER: 950119-4	X	Y	Z	POSITIVE DIRECTION	NEGATIVE DIRECTION
No. LOCATION					
1 VEHICLE CENTER OF GRAVITY	3114 mm	50 mm	572 mm		
LONGITUDINAL				15.6 g @ 35.4 ms	35.5 g @ 30.5 ms
LATERAL				9.3 g @ 37.8 ms	5.7 g @ 32.5 ms
VERTICAL				18.6 g @ 45.4 ms	30.2 g @ 38.2 ms
RESULTANT				38.4 g @ 30.6 ms	
2 LEFT REAR SEAT	2115 mm	715 mm	500 mm		
LONGITUDINAL				4.0 g @ 35.4 ms	28.5 g @ 30.4 ms
LATERAL				9.1 g @ 40.4 ms	13.1 g @ 34.2 ms
3 RIGHT REAR SEAT	2164 mm	-709 mm	500 mm		
LONGITUDINAL				5.1 g @ 35.5 ms	27.0 g @ 30.6 ms
LATERAL				12.5 g @ 34.2 ms	7.4 g @ 39.4 ms
4 LEFT FRONT SILL	3238 mm	730 mm	541 mm		
LONGITUDINAL				5.4 g @ 35.2 ms	28.3 g @ 30.2 ms
LATERAL				9.0 g @ 37.5 ms	9.6 g @ 31.9 ms
5 RIGHT FRONT SILL	3184 mm	-680 mm	524 mm		
LONGITUDINAL				2.3 g @ 35.5 ms	25.8 g @ 30.3 ms
LATERAL				14.5 g @ 31.4 ms	10.1 g @ 35.9 ms

REFERENCE: X: + FORWARD FROM VEHICLE'S REAR BUMPER
 Y: + LEFTWARD FROM VEHICLE'S LONGITUDINAL CENTERLINE
 Z: + UPWARD FROM GROUND LEVEL

Table 22 Camera Information

Test No. 950119-4

<u>Camera Number</u>	<u>Location</u>	<u>Type</u>	<u>Lens (mm)</u>	<u>Speed (fps)</u>	<u>Purpose of Camera Data</u>
1	Left tight	Photosonic	25	1002	Impact overall
2	Right tight	Photosonic	25	1008	Impact overall
3	Overhead	Photosonic	25	998	Impact overall



Section 7.0

Test 950119-5 Summary

Table 24 Vehicle Crush At Vehicle Bumper Height

Test No. 950119-5

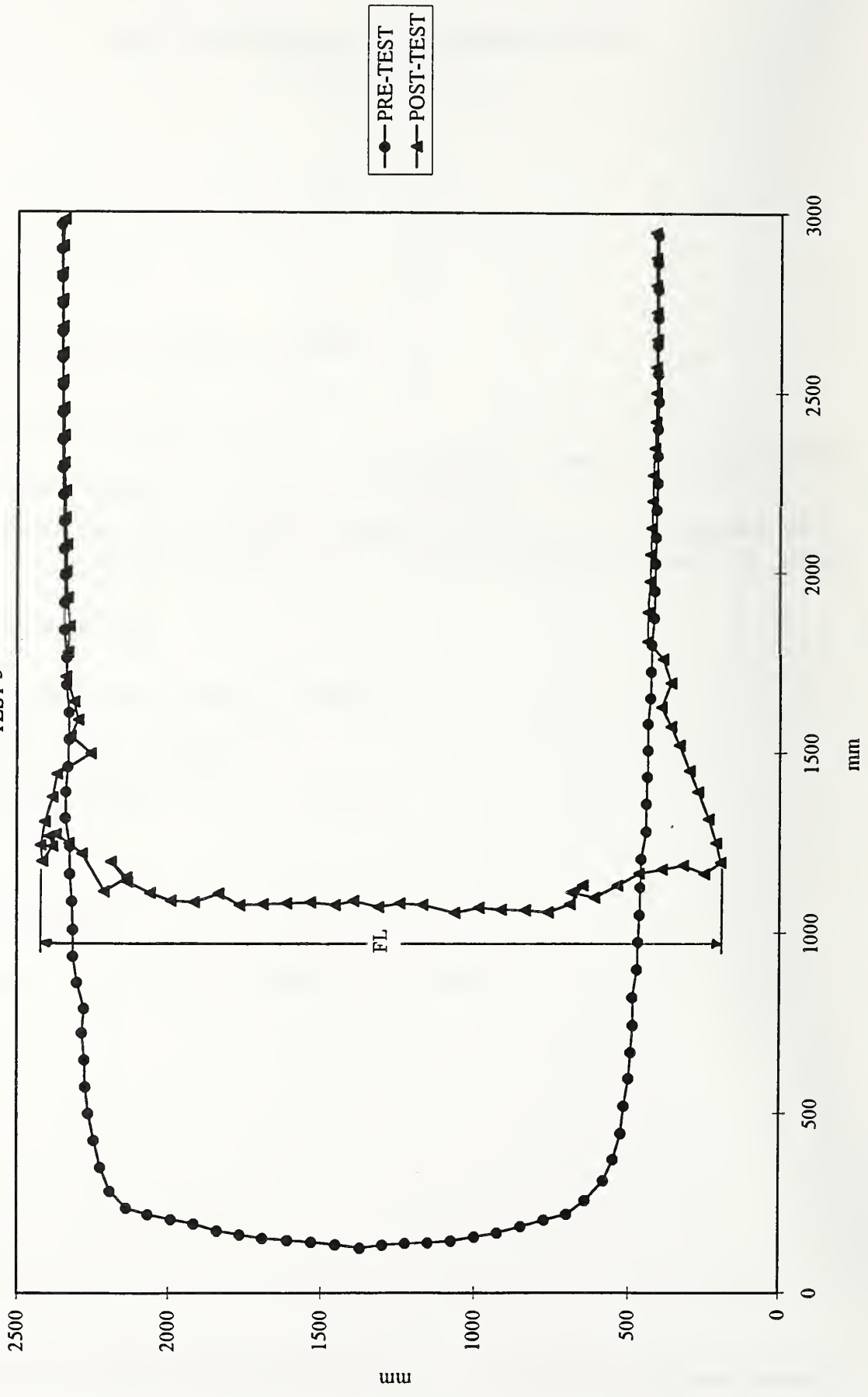
FL	=	2172
C1	=	199
C2	=	617
C3	=	917
C4	=	943
C5	=	887
C6	=	303

NOTE: FL is post-test length of damaged surface.

Measurements C1 - C6 were spaced equally apart over the post-impact length of the damaged surface. This distance is defined as length "FL" on the vehicle crush profile plot.

All measurements are in millimeters.

FIGURE 7
VEHICLE PROFILE AT BUMPER HEIGHT
TEST 5



● PRE-TEST
▲ POST-TEST

Table 25 Impacted Vehicle Measurements

Test No.: 950119-5

Vehicle Make/Model: Chevrolet/Caprice

No.	Type of measurement	Pre-test	Post-test	Diff.
X1	Total length of vehicle at centerline	4822	4358	464
X2	Rear surface of vehicle to front of engine block	NA ¹	NA ¹	NA ¹
X3	Rear surface of vehicle to firewall	NA ¹	NA ¹	NA ¹
X4	Rear surface of vehicle to upper leading edge of right door	3658	3672	-14
X5	Rear surface of vehicle to upper leading edge of left door	3683	3684	-1
X6	Rear surface of vehicle to lower leading edge of right door	3719	3684	35
X7	Rear surface of vehicle to lower leading edge of left door	3707	3660	47
X8	Rear surface of vehicle to upper trailing edge of right door	2454	2481	-27
X9	Rear surface of vehicle to upper trailing edge of left door	2486	2480	6
X10	Rear surface of vehicle to lower trailing edge of right door	2548	2527	21
X11	Rear surface of vehicle to lower trailing edge of left door	2529	2522	7
X12	Rear surface of vehicle to bottom of "A" post on right side	3579	3522	57
X13	Rear surface of vehicle to bottom of "A" post on left side	3600	3562	38
X14	Rear surface of vehicle to firewall - right side	NA ¹	3885	NA ¹
X15	Rear surface of vehicle to firewall - left side	NA ¹	3830	NA ¹
X16	Rear surface of vehicle to steering wheel center	3091	2964	127
X17	Center of steering column to "A" post	334	289	45
X18	Center of steering column to headliner	417	351	66
X19	Rear surface of vehicle to right side of front bumper	4770	4250	520
X20	Rear surface of vehicle to left side of front bumper	4802	4314	488
X21	Length of engine block	495	495	0

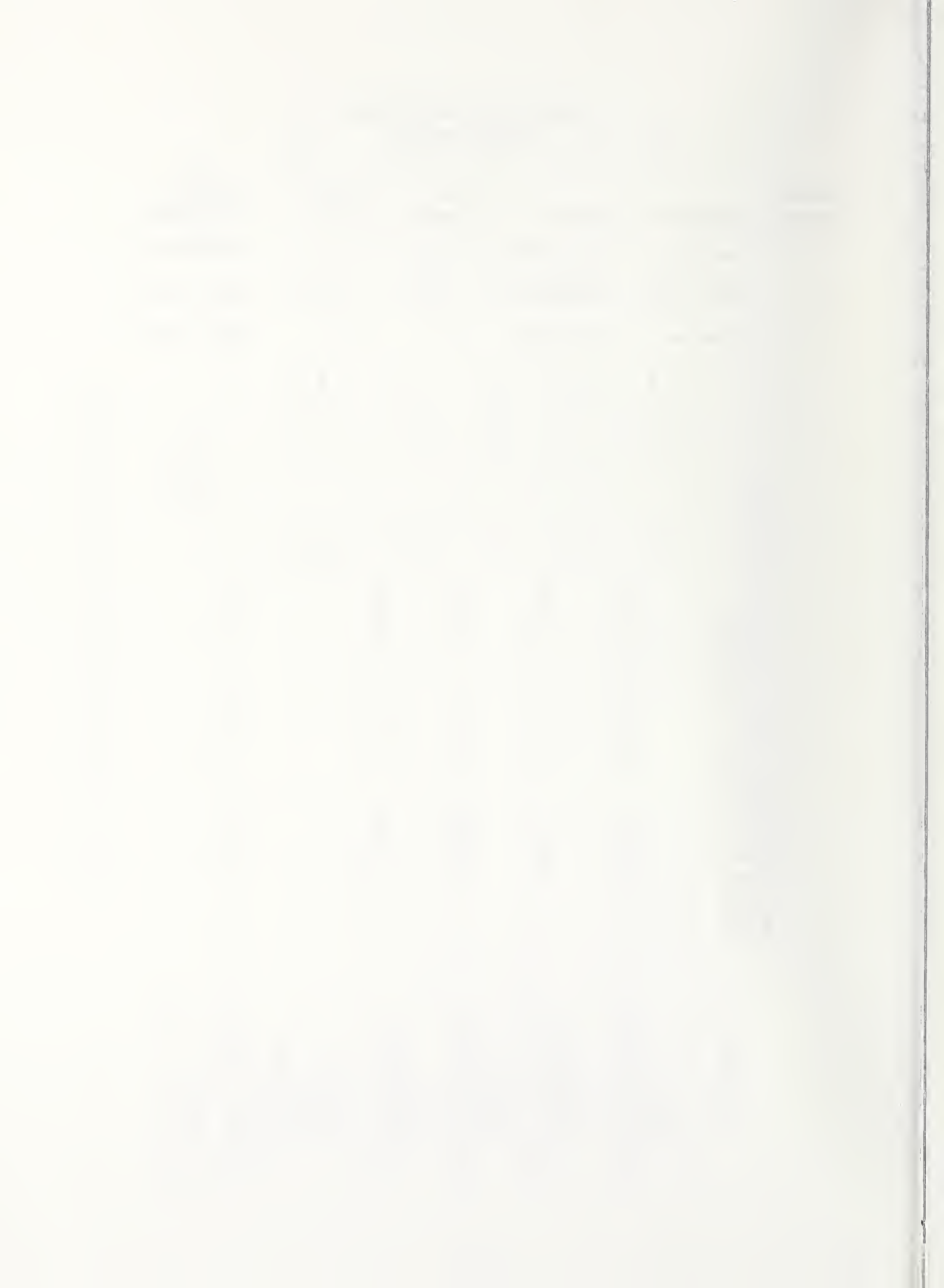
¹ The vehicle's crush obstructed the measurement.

All measurements are in millimeters.

Table 27 Camera Information

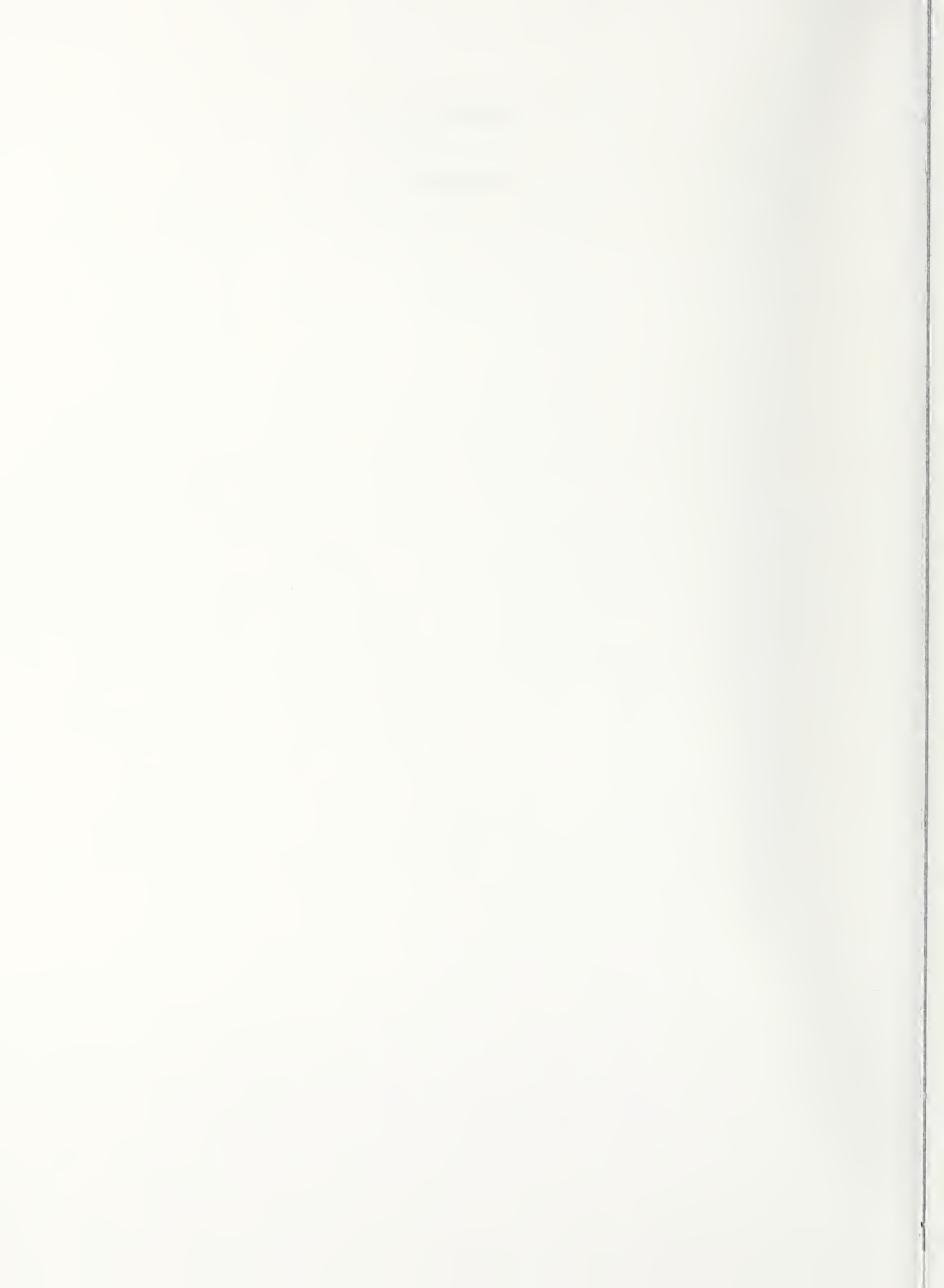
Test No. 950119-5

<u>Camera Number</u>	<u>Location</u>	<u>Type</u>	<u>Lens (mm)</u>	<u>Speed (fps)</u>	<u>Purpose of Camera Data</u>
1	Left tight	Photosonic	25	1000	Impact overall
2	Right tight	Photosonic	25	1010	Impact overall
3	Overhead	Photosonic	25	1000	Impact overall



Appendix A

Photographs



List of Photographs

Test No. 950119-1

- A-1. Pre-Test Left Side View
- A-2. Post-Test Left Side View
- A-3. Pre-Test Left Front Three-Quarter View
- A-4. Post-Test Left Front Three-Quarter View
- A-5. Pre-Test Front View
- A-6. Post-Test Front View
- A-7. Pre-Test Right Front Three-Quarter View
- A-8. Post-Test Right Front Three-Quarter View
- A-9. Pre-Test Right Side View
- A-10. Post-Test Right Side View
- A-11. Pre-Test Overhead View
- A-12. Post-Test Overhead View

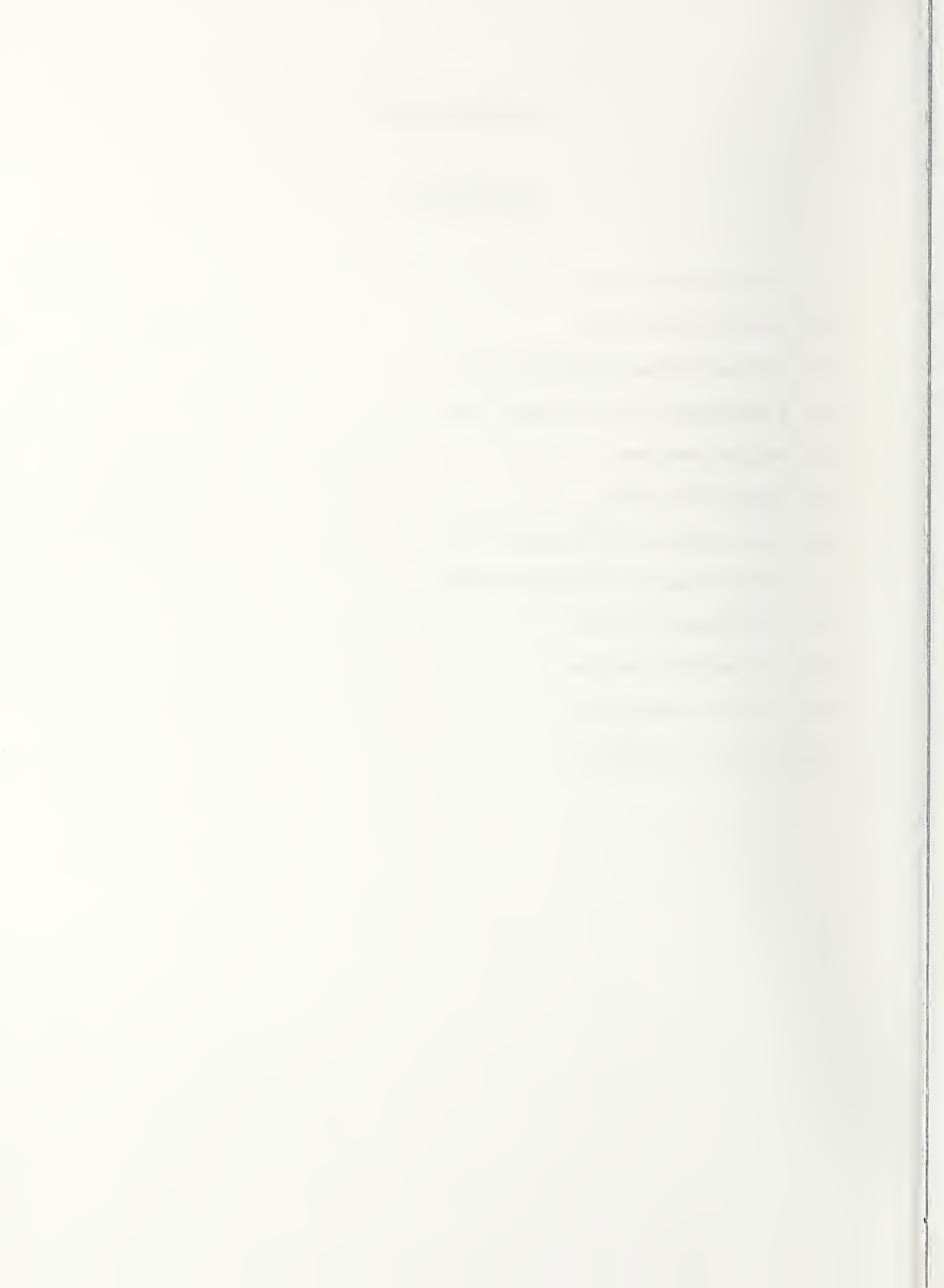




Figure A-1. Pre-Test Left Side View



Figure A-2. Post-Test Left Side View



Figure A-3. Pre-Test Left Front Three-Quarter View



Figure A-4. Post-Test Left Front Three-Quarter View

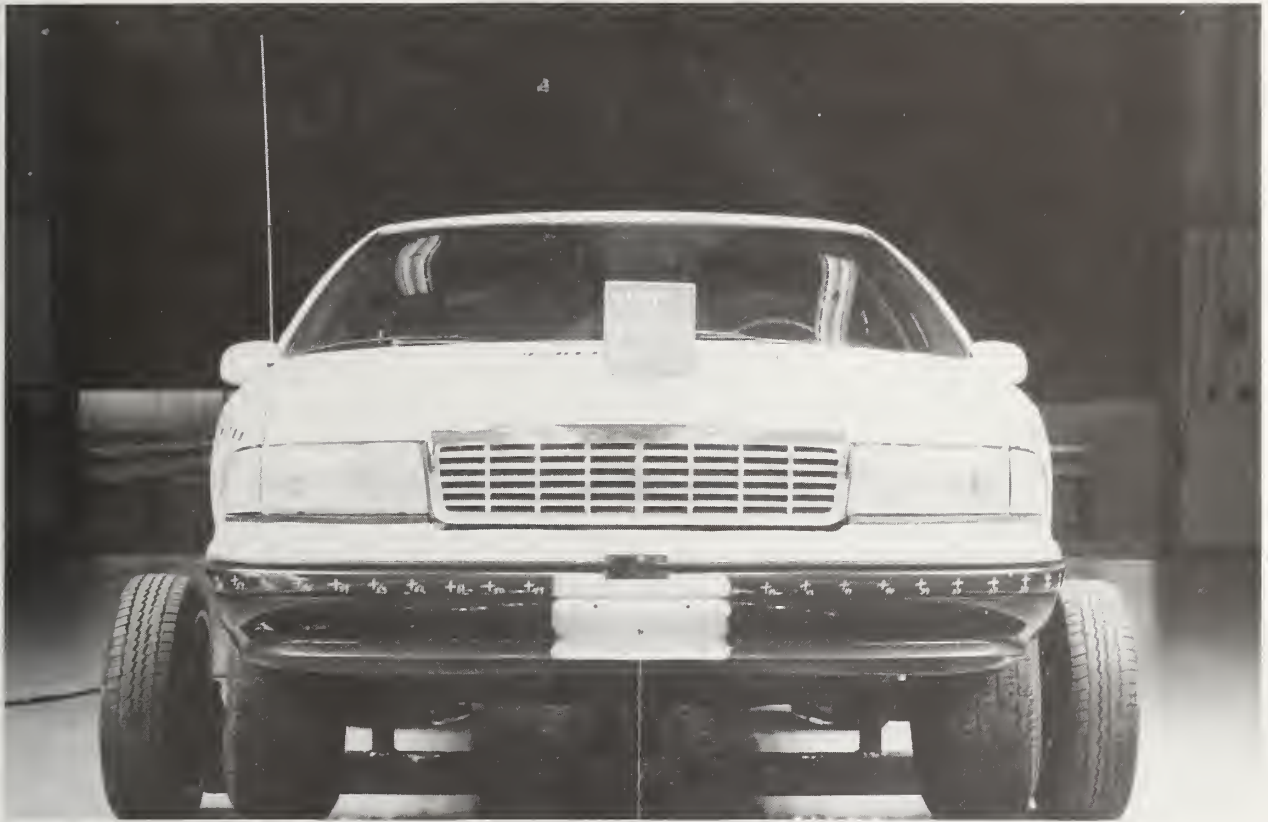


Figure A-5. Pre-Test Front View

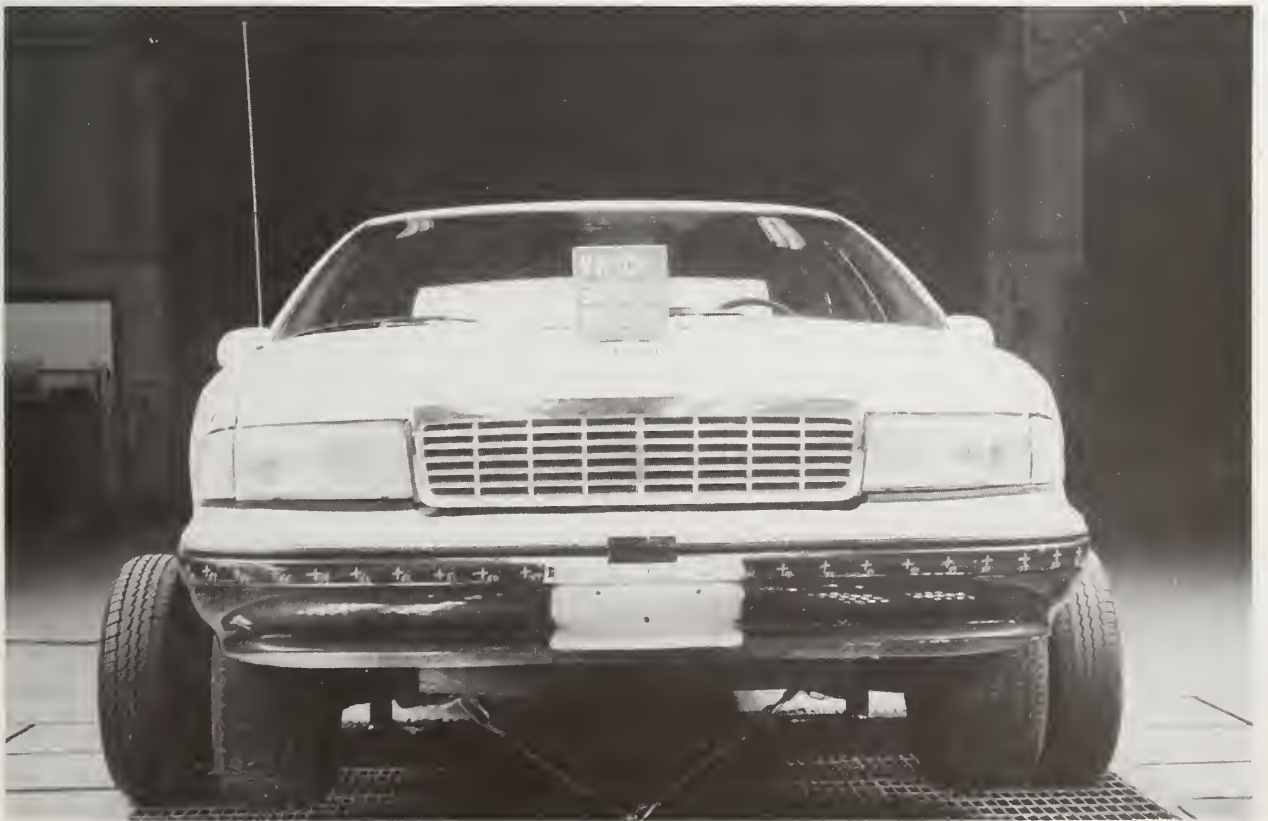


Figure A-6. Post-Test Front View



Figure A-7. Pre-Test Right Front Three-Quarter View



Figure A-8. Post-Test Right Front Three-Quarter View



Figure A-9. Pre-Test Right Side View



Figure A-10. Post-Test Right Side View



Figure A-11. Pre-Test Overhead View



Figure A-12. Post-Test Overhead View

List of Photographs

Test No. 950119-2

- A-13. Post-Test Left Side View
- A-14. Post-Test Left Front Three-Quarter View
- A-15. Post-Test Front View
- A-16. Post-Test Right Front Three-Quarter View
- A-17. Post-Test Right Side View
- A-18. Post-Test Overhead View





Figure A-13. Post-Test Left Side View



Figure A-14. Post-Test Left Front Three-Quarter View

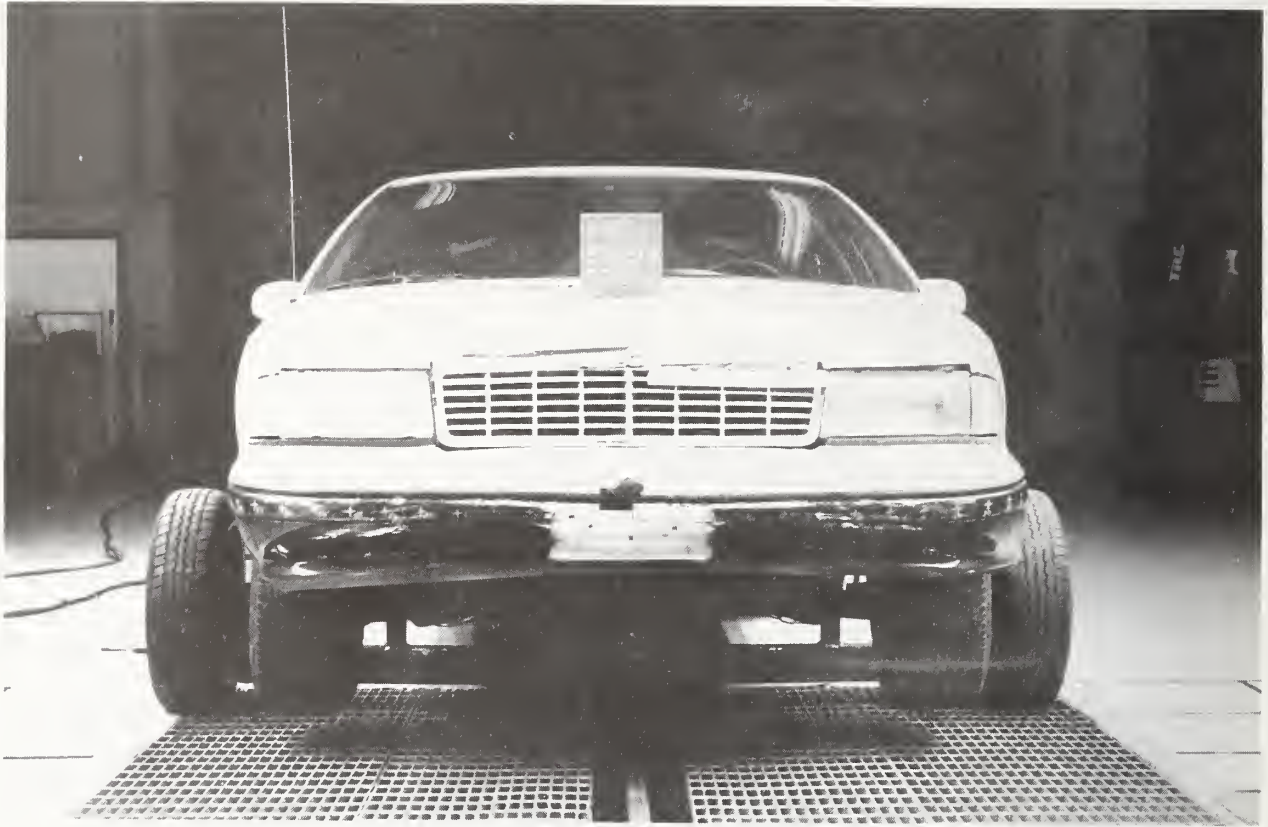


Figure A-15. Post-Test Front View



Figure A-16. Post-Test Right Front Three-Quarter View



Figure A-17. Post-Test Right Side View



Figure A-18. Post-Test Overhead View



List of Photographs

Test No. 950119-3

- A-19. Post-Test Left Side View
- A-20. Post-Test Left Front Three-Quarter View
- A-21. Post-Test Front View
- A-22. Post-Test Right Front Three-Quarter View
- A-23. Post-Test Right Side View
- A-24. Post-Test Overhead View





Figure A-19. Post-Test Left Side View



Figure A-20. Post-Test Left Front Three-Quarter View

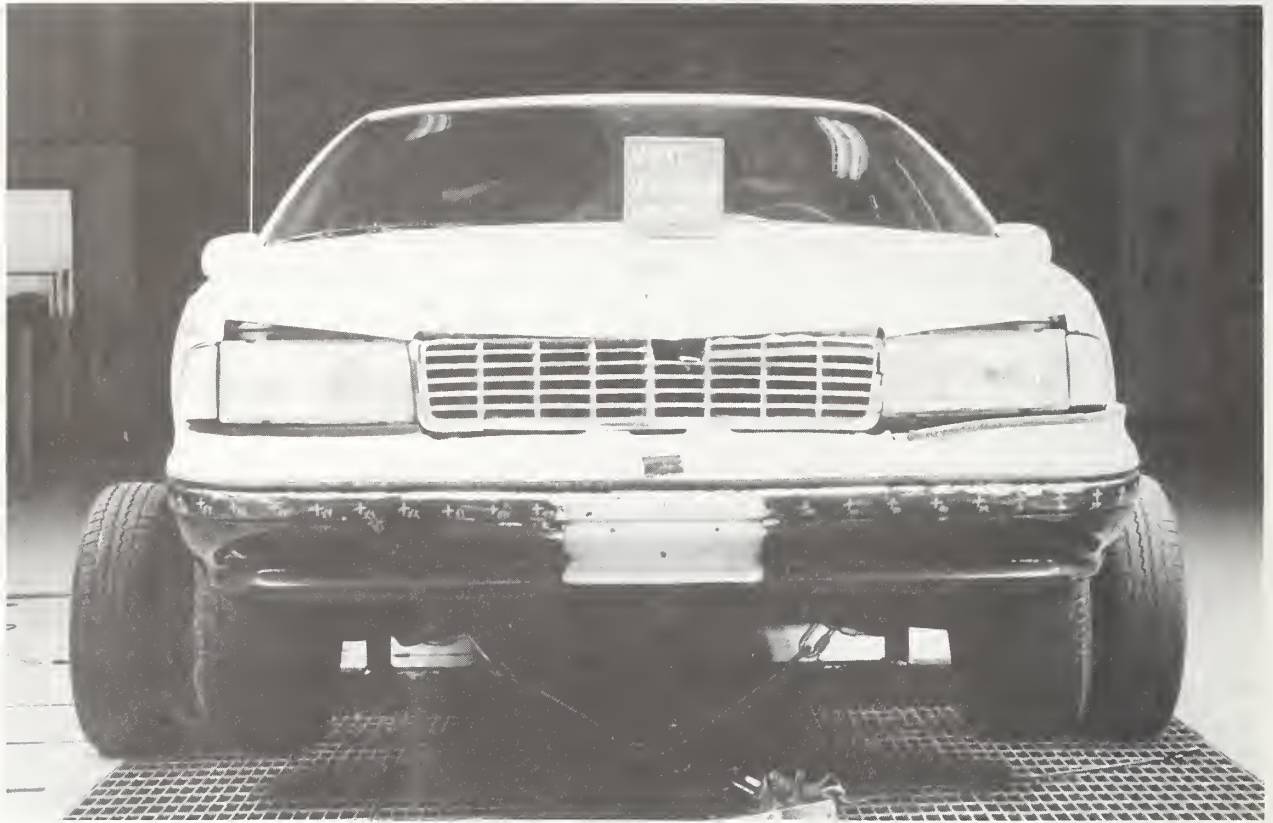


Figure A-21. Post-Test Front View



Figure A-22. Post-Test Right Front Three-Quarter View



Figure A-23. Post-Test Right Side View



Figure A-24. Post-Test Overhead View



List of Photographs

Test No. 950119-4

- A-25. Post-Test Left Side View
- A-26. Post-Test Left Front Three-Quarter View
- A-27. Post-Test Front View
- A-28. Post-Test Right Front Three-Quarter View
- A-29. Post-Test Right Side View
- A-30 Post-Test Overhead View





Figure A-25. Post-Test Left Side View



Figure A-26. Post-Test Left Front Three-Quarter View

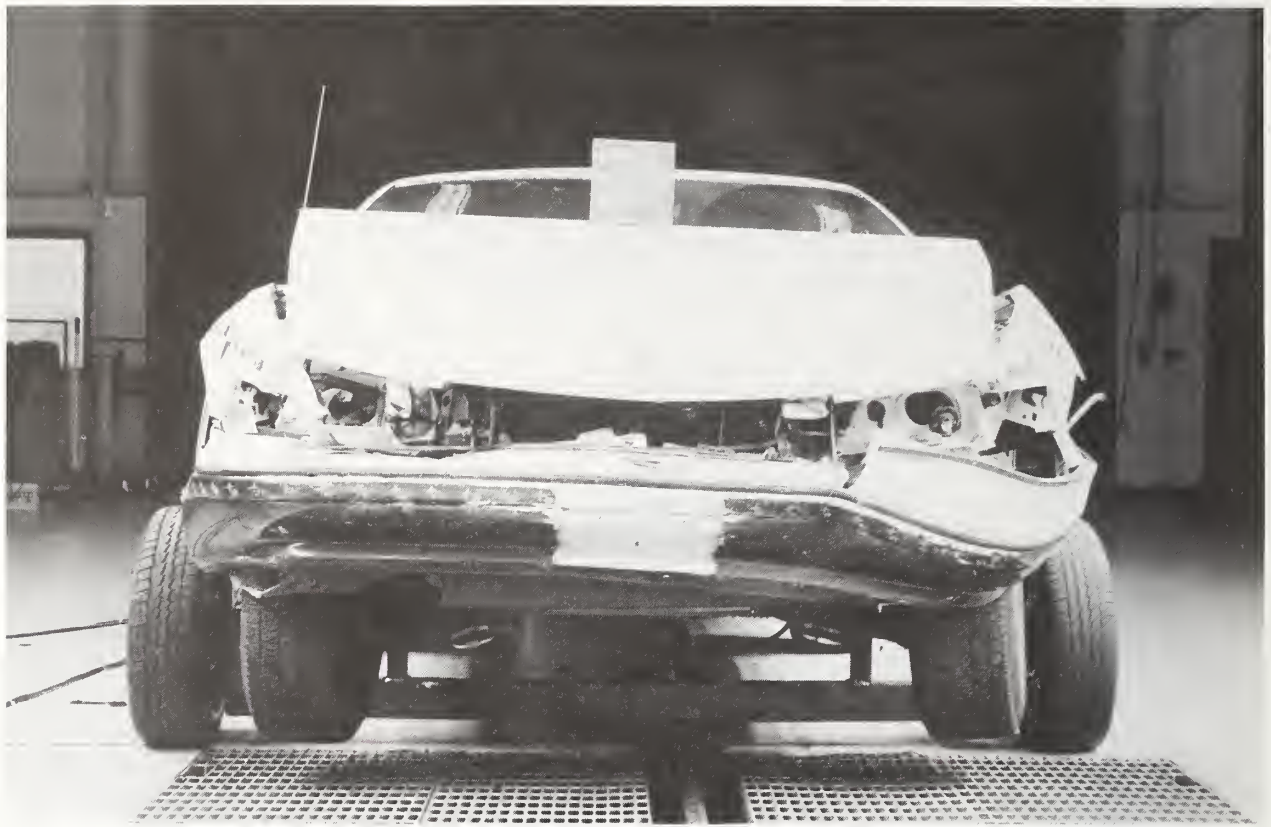


Figure A-27. Post-Test Front View



Figure A-28. Post-Test Right Front Three-Quarter View



Figure A-29. Post-Test Right Side View



Figure A-30. Post-Test Overhead View



List of Photographs

Test No. 950119-5

- A-31. Post-Test Left Side View
- A-32. Post-Test Left Front Three-Quarter View
- A-33. Post-Test Front View
- A-34. Post-Test Right Front Three-Quarter View
- A-35. Post-Test Right Side View
- A-36 Post-Test Overhead View

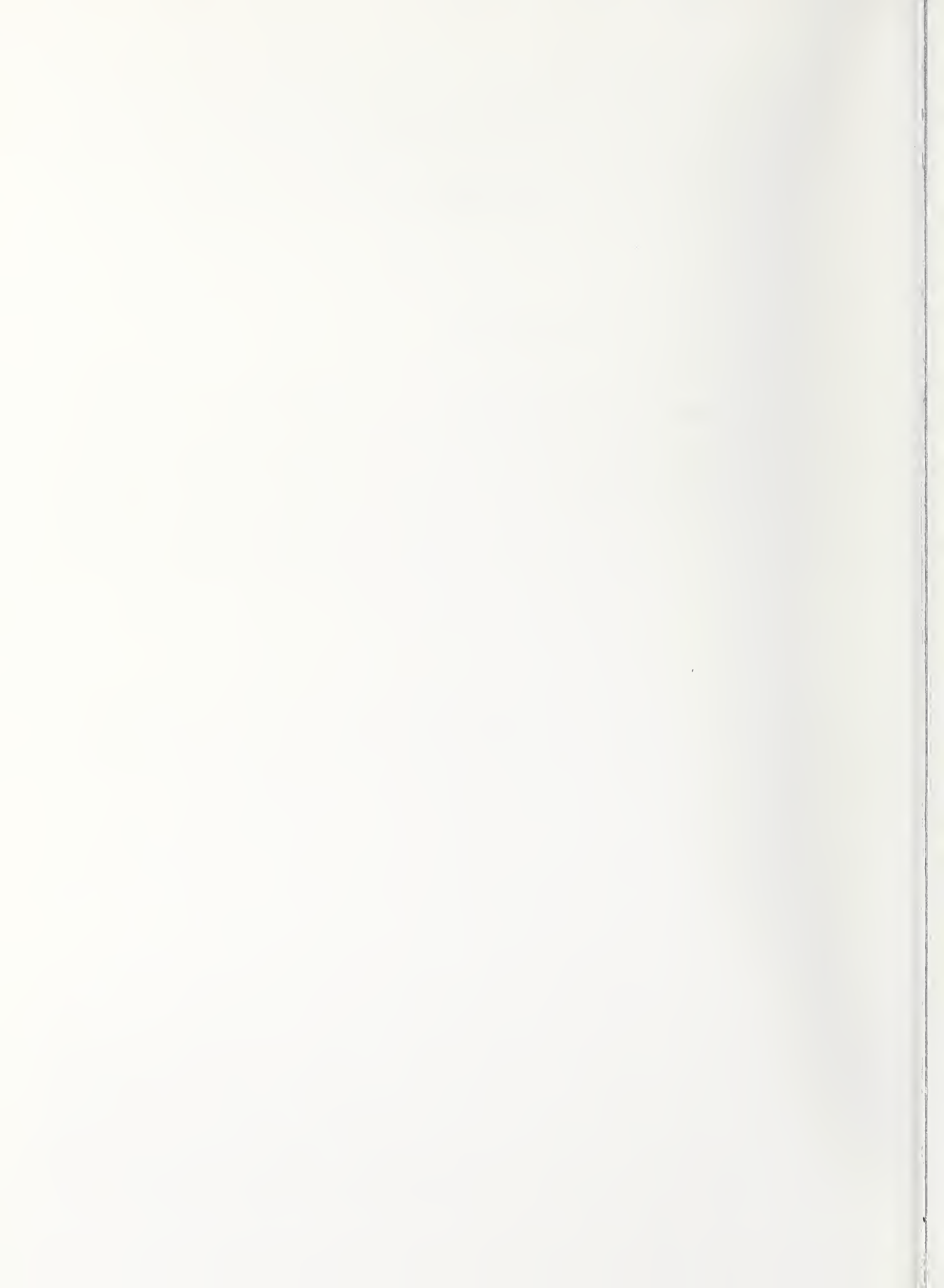




Figure A-31. Post-Test Left Side View

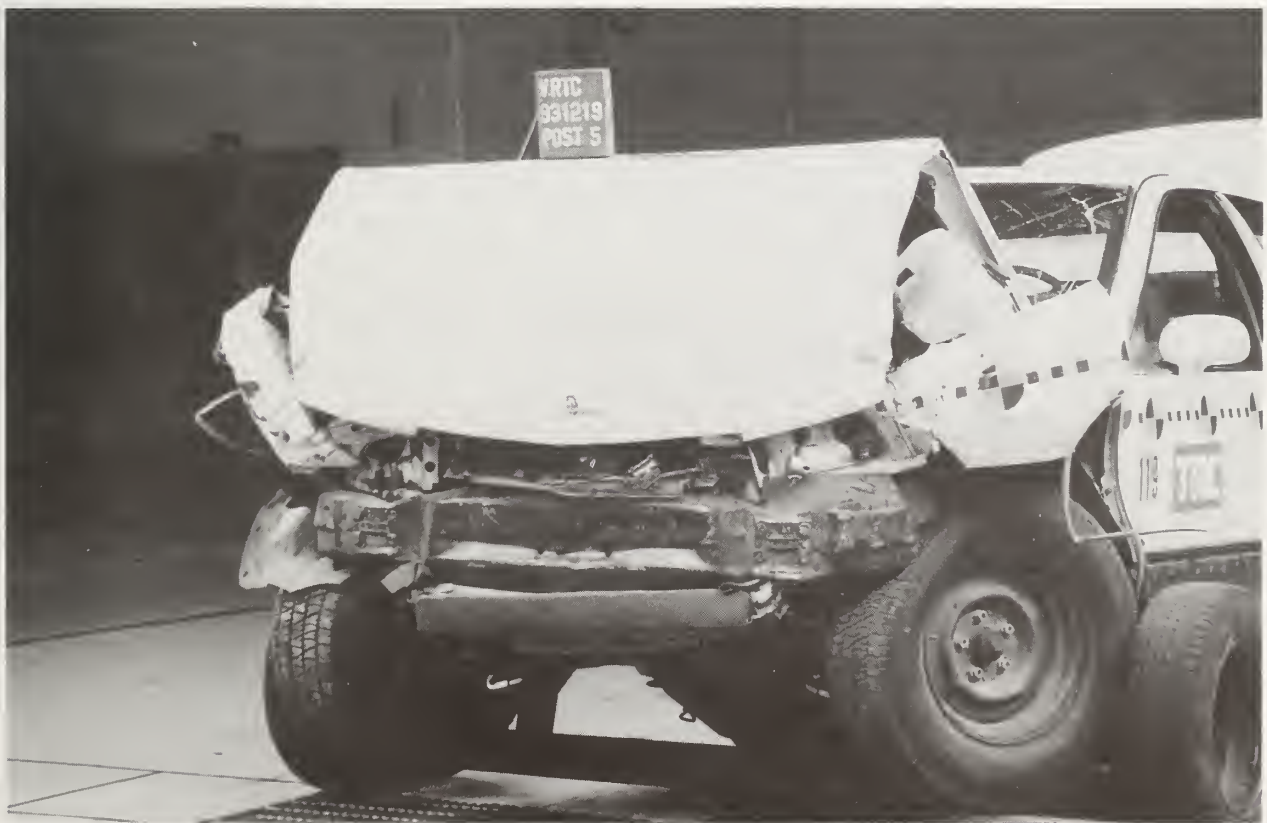


Figure A-32. Post-Test Left Front Three-Quarter View

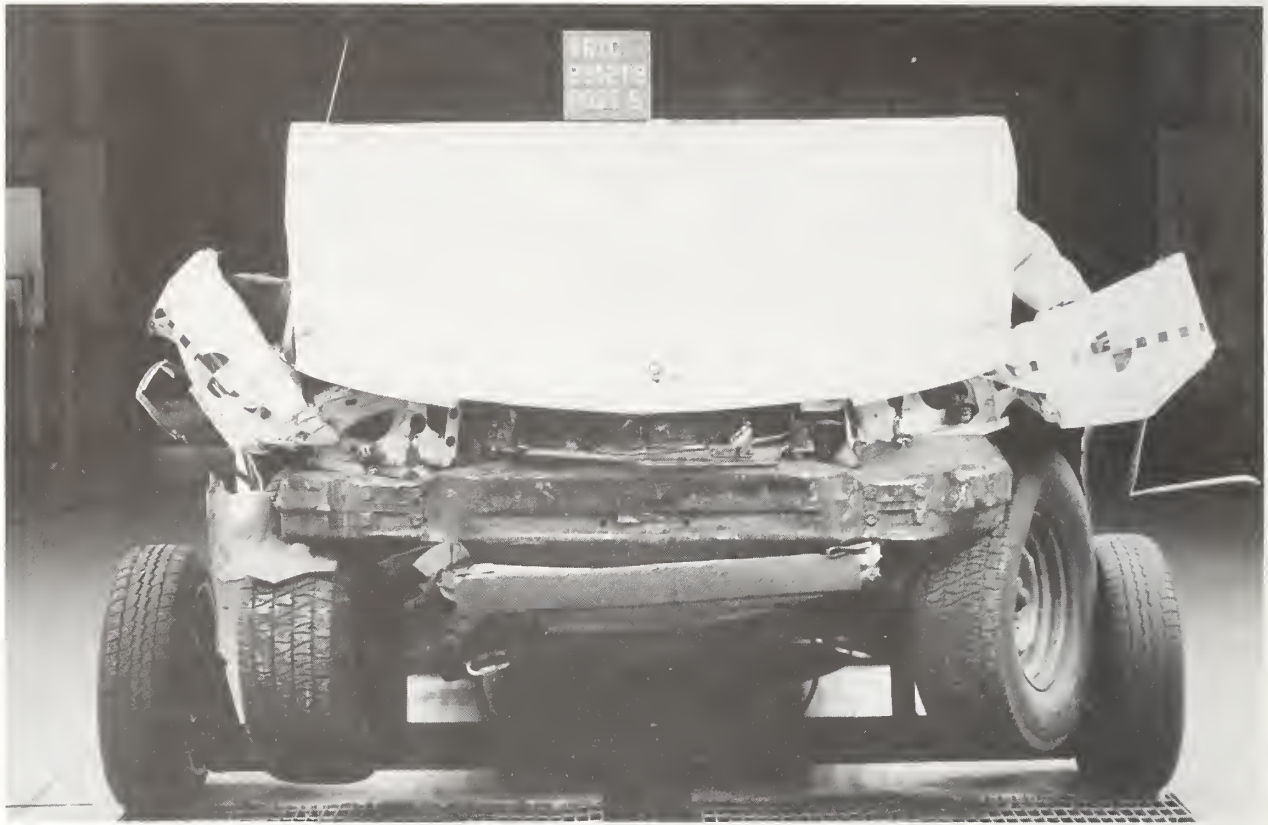


Figure A-33. Post-Test Front View

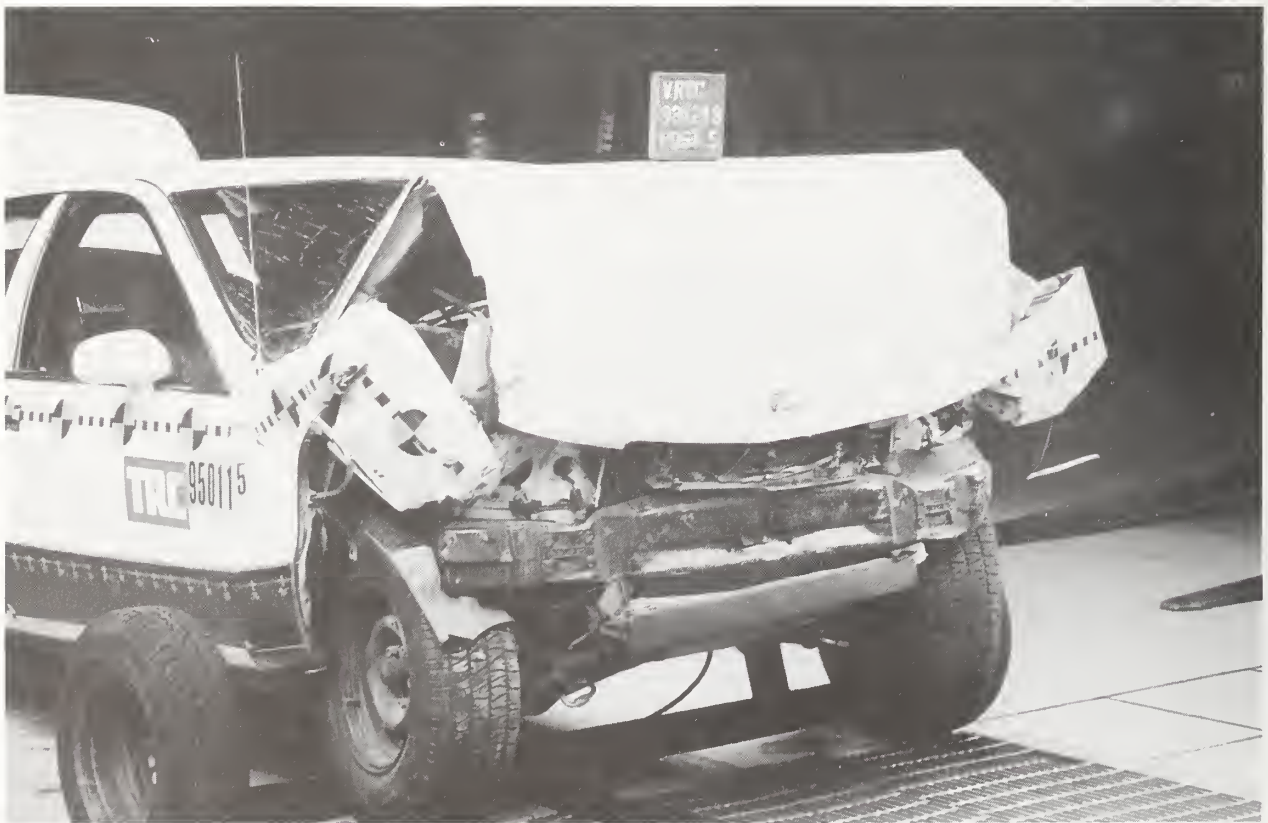


Figure A-34. Post-Test Right Front Three-Quarter View

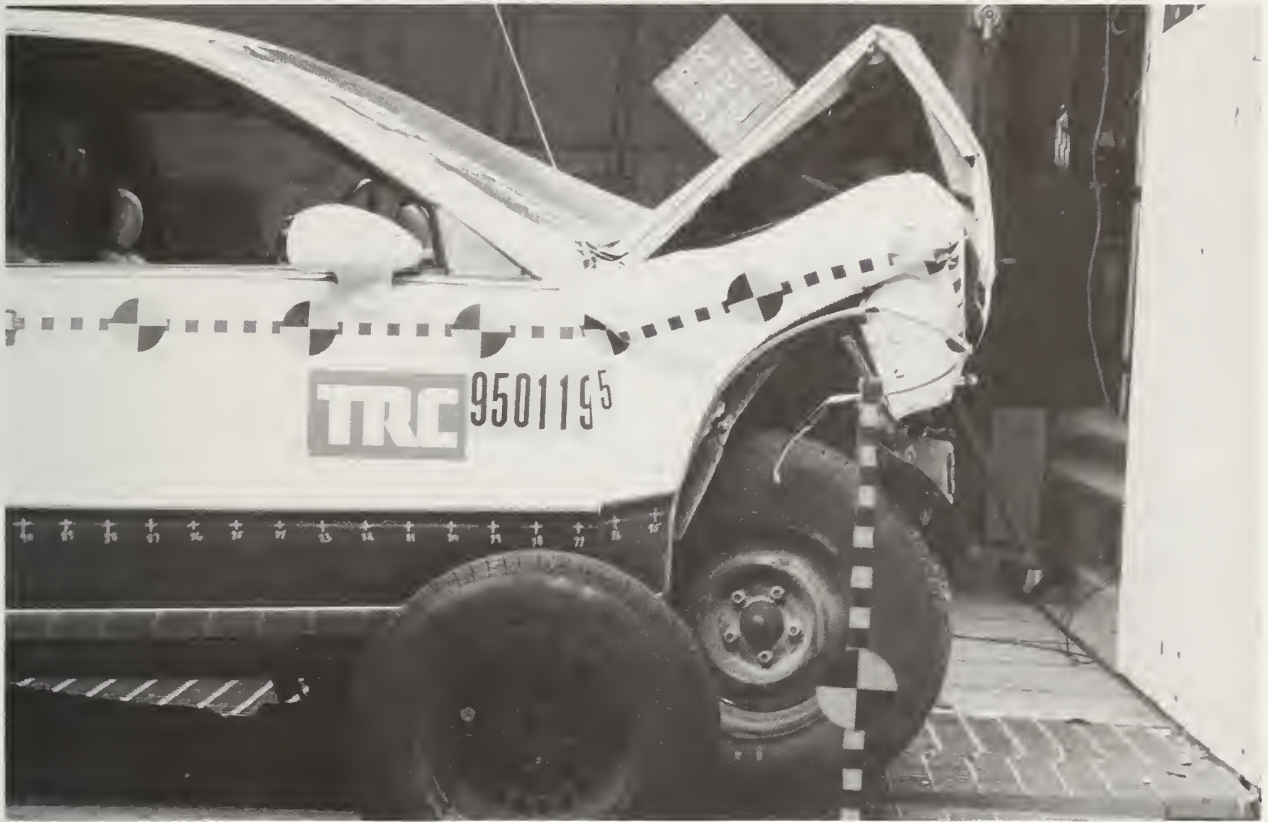


Figure A-35. Post-Test Right Side View



Figure A-36. Post-Test Overhead View



Appendix B

Data Plots



Data Plots

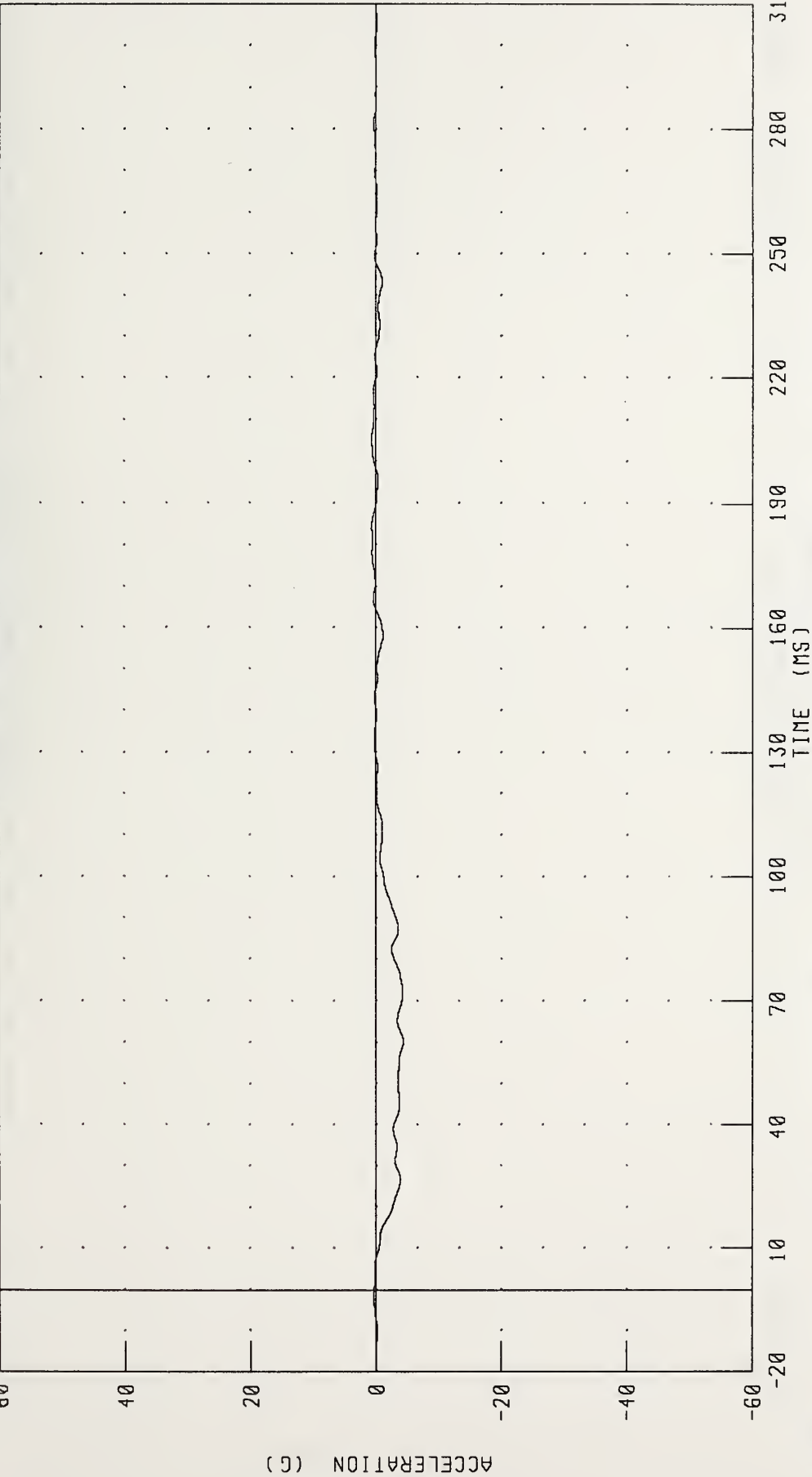
Test No. 950119-1



1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
VEHICLE CG X-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC.



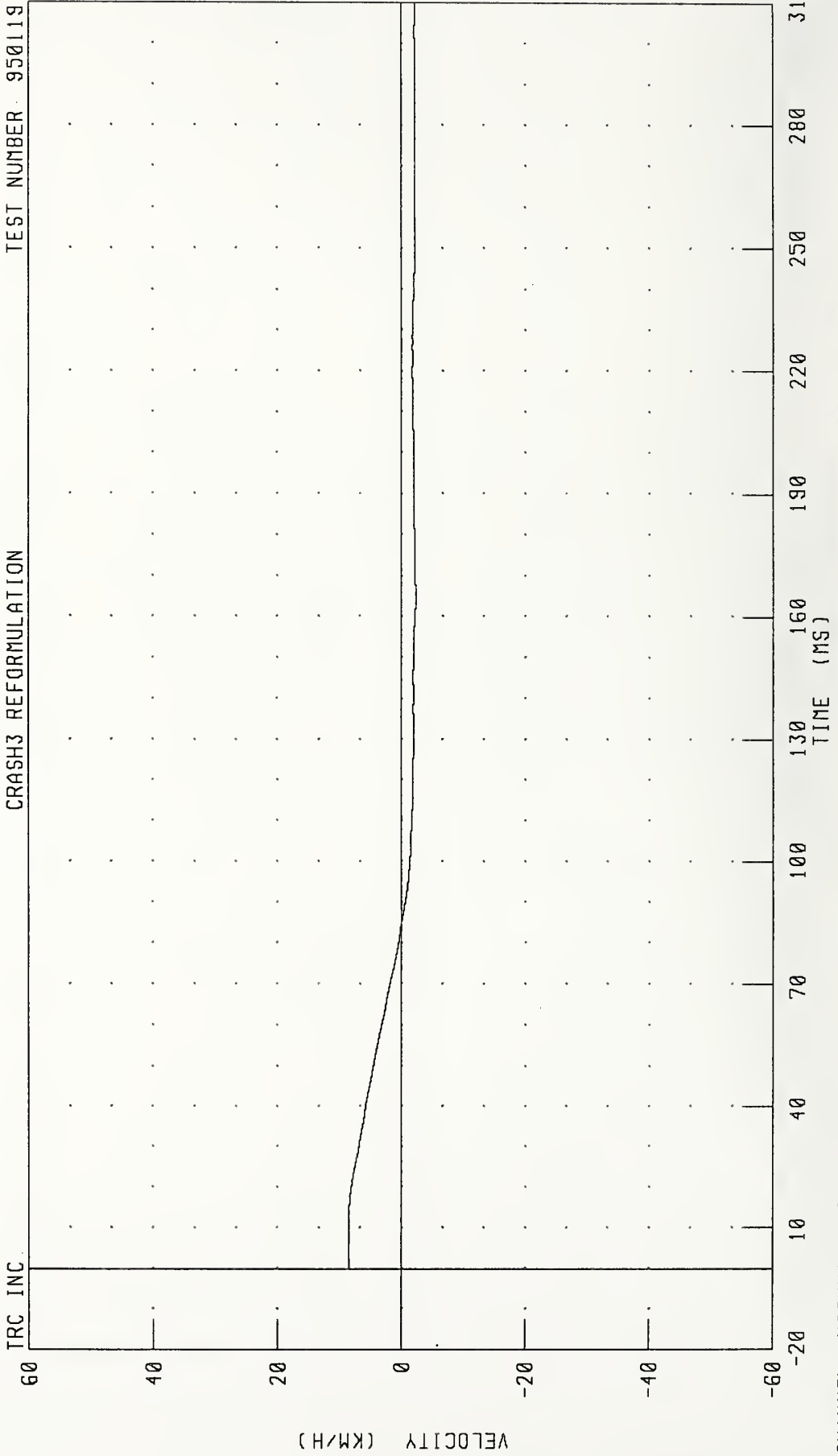
CHANNEL VCGXG1 FILTER CH CLASS 60

PEAK DATA 0 71 G @ 205.36 MS; -4.36 G @ 60 16 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5

VEHICLE CG X-AXIS VELOCITY

CRASH3 REFORMULATION TEST NUMBER 950119

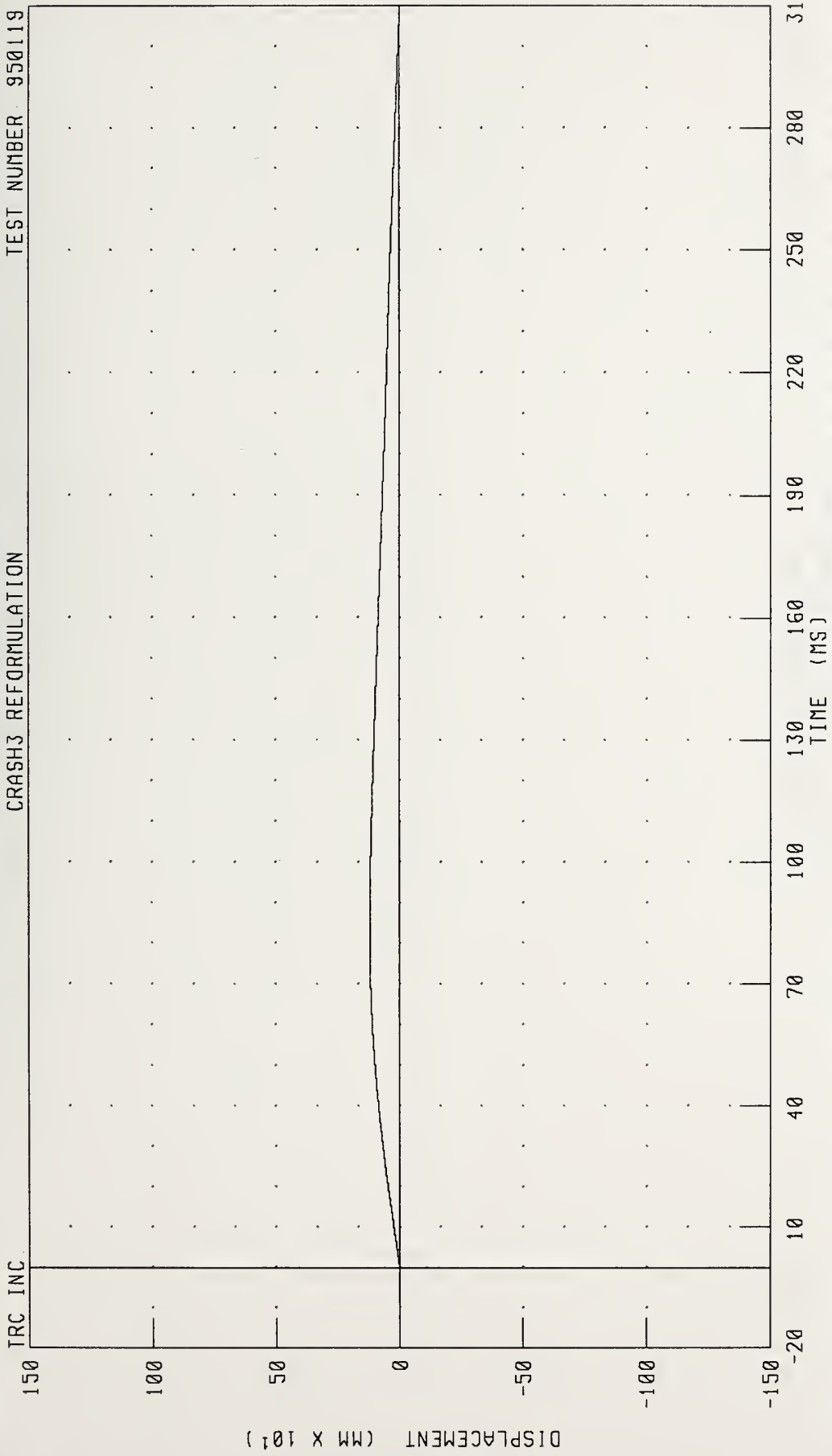


CHANNEL: VCGXV1 FILTER: CH CLASS 180

PEAK DATA 8.56 KM/H @ 8.32 MS; -2.32 KM/H @ 164.80 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
VEHICLE CG X-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER 950119



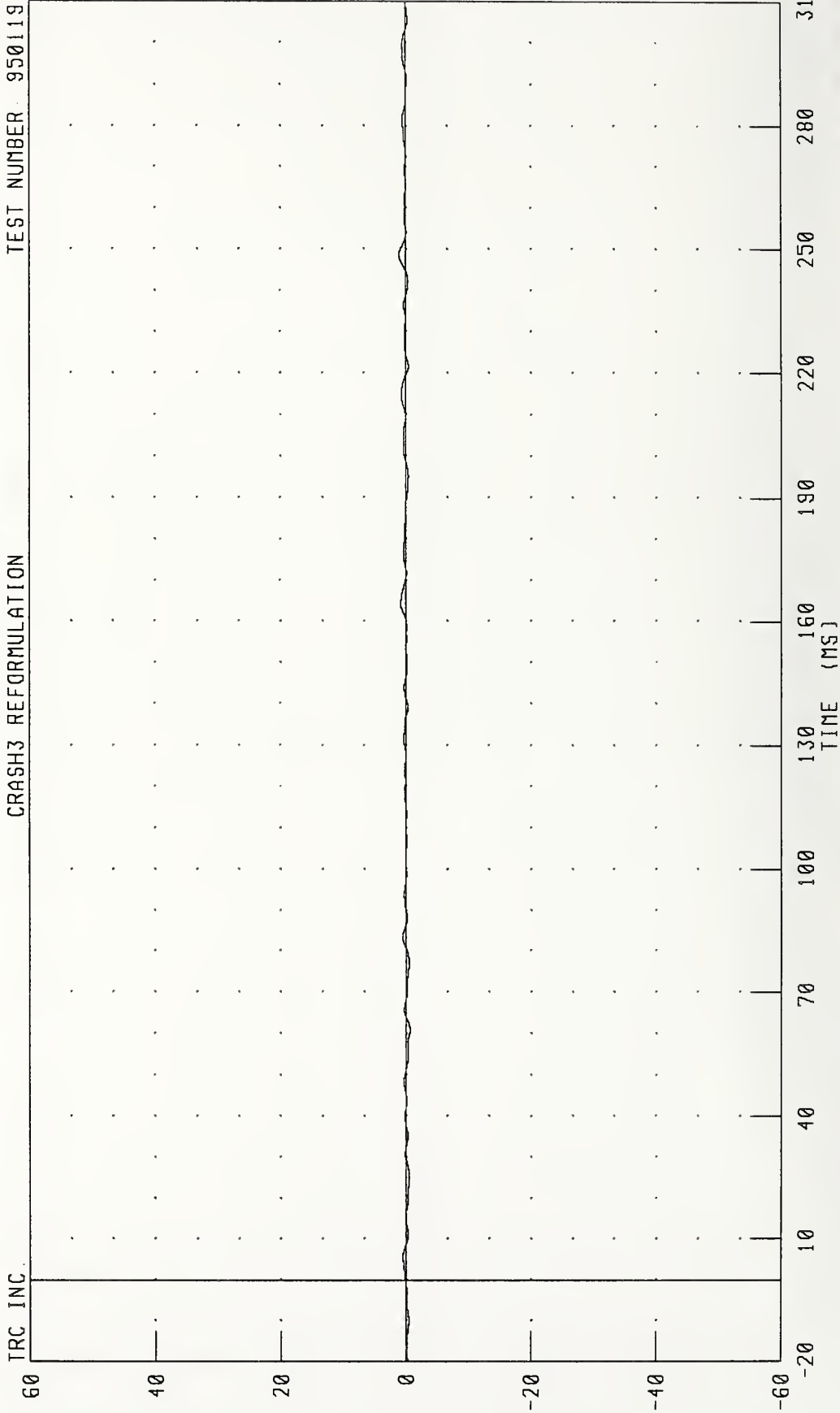
CHANNEL: VCGXD1 FILTER: CH CLASS 180 PEAK DATA: 120 69 MM @ 84 88 MS; -0 41 MM @ 310 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5

VEHICLE CG Y-AXIS ACCELERATION

CRASH3 REFORMULATION

TEST NUMBER 950119



CHANNEL VCGYG1 FILTER CH CLASS 60

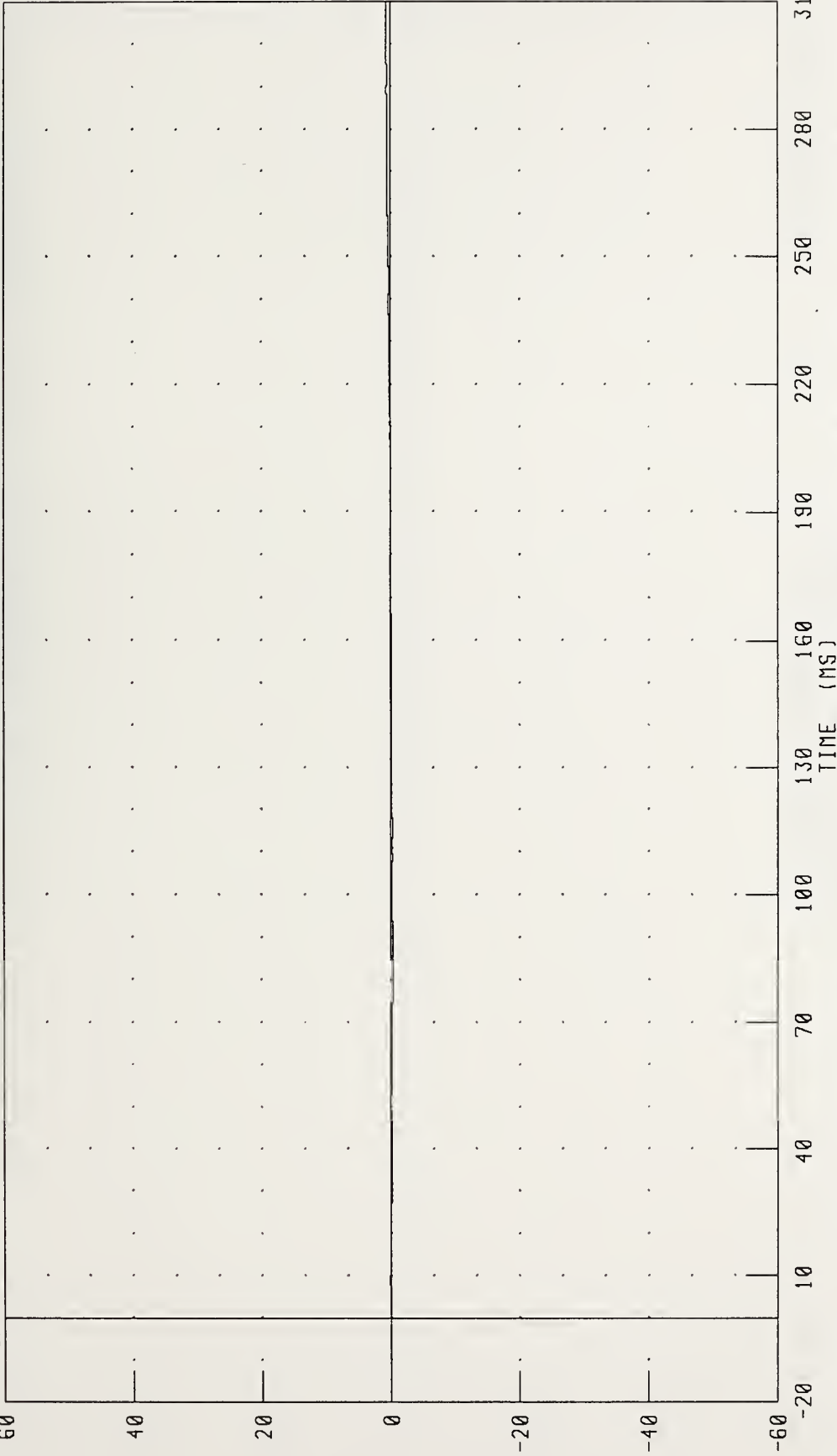
PEAK DATA: 1 07 G @ 248.56 MS; -0 62 G @ 60 80 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
VEHICLE CC Y-AXIS VELOCITY

TEST NUMBER: 950119

CRASH3 REFORMULATION

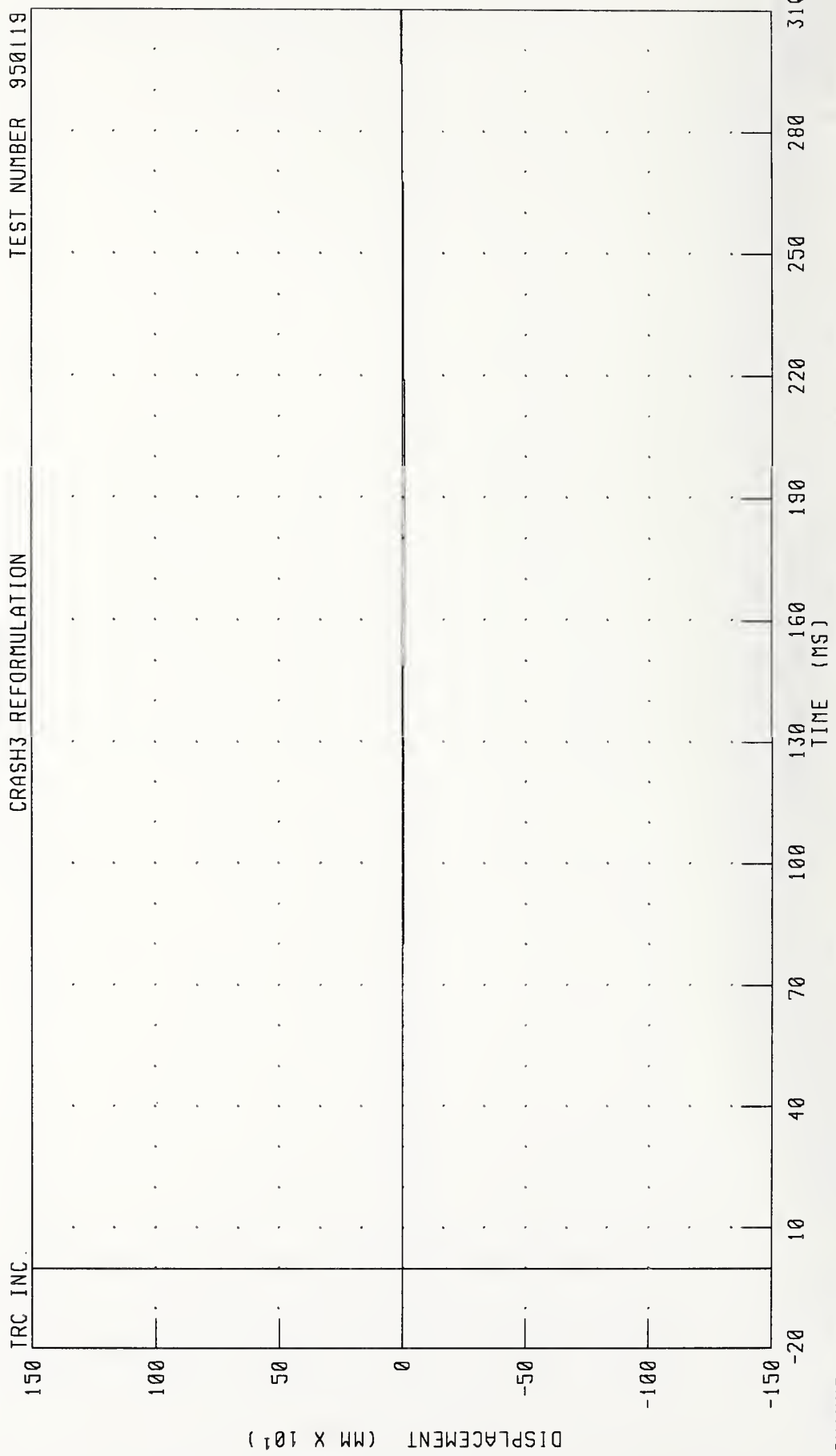
TRC INC.



CHANNEL: VCGYV1 FILTER: CH CLASS 180

PEAK DATA: 0.73 KM/H @ 302.72 MS, -0.33 KM/H @ 80.96 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
 VEHICLE CG Y-AXIS DISPLACEMENT

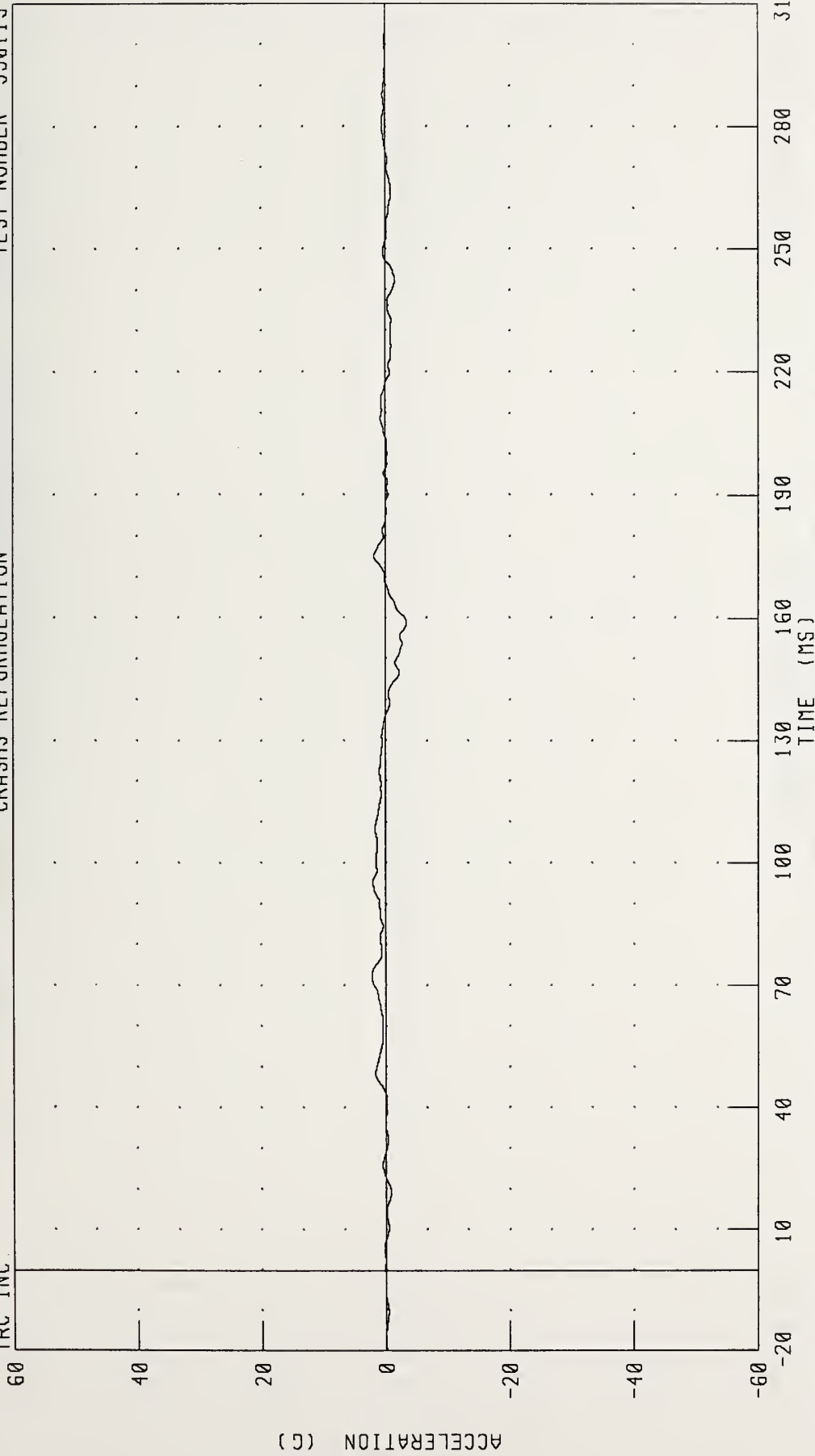


CHANNEL: VCGY01 FILTER: CH CLASS 180 PEAK DATA: 4.98 MM @ 310.00 MS, -6.98 MM @ 176.16 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
VEHICLE CG Z-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC



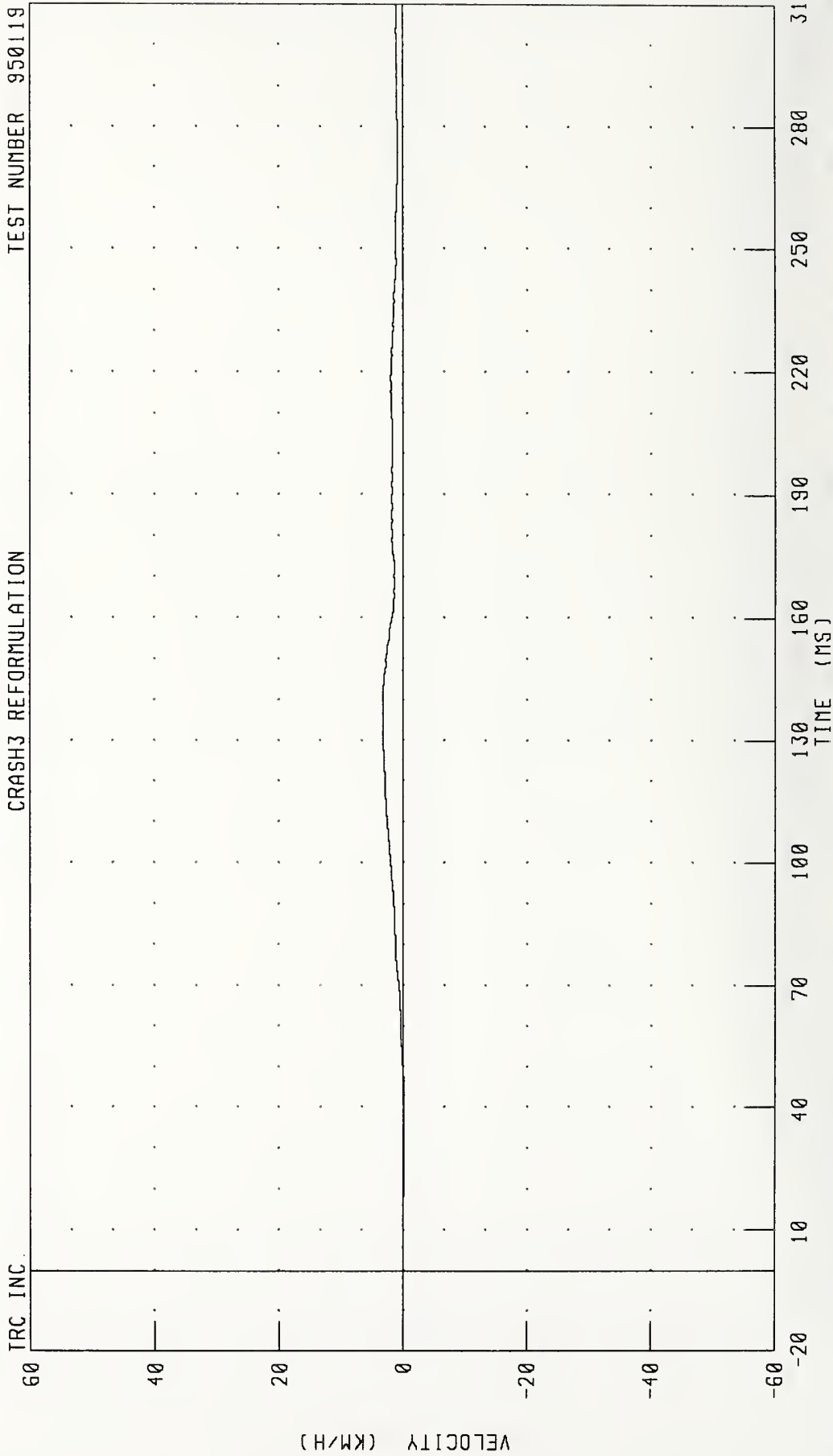
CHANNEL VCGZG1 FILTER CH CLASS 60

PEAK DATA: 2.27 G @ 72.48 MS; -3.36 G @ 159.04 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5

VEHICLE CG Z-AXIS VELOCITY

CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL: VCGZV1 FILTER: CH. CLASS 180

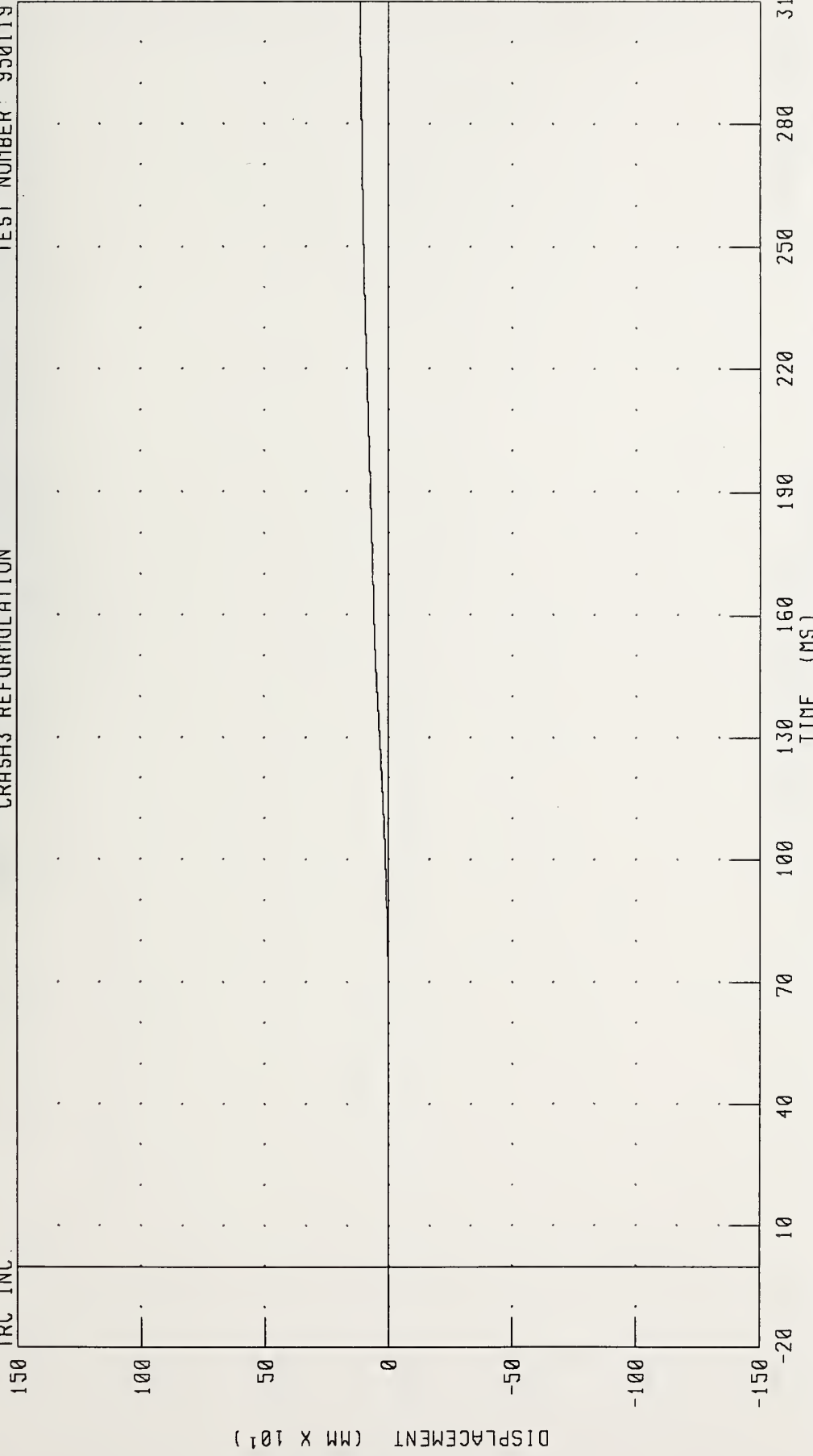
PEAK DATA: 3 29 KM/H @ 136.72 MS, -0.19 KM/H @ 43.44 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
VEHICLE CG Z-AXIS DISPLACEMENT

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC



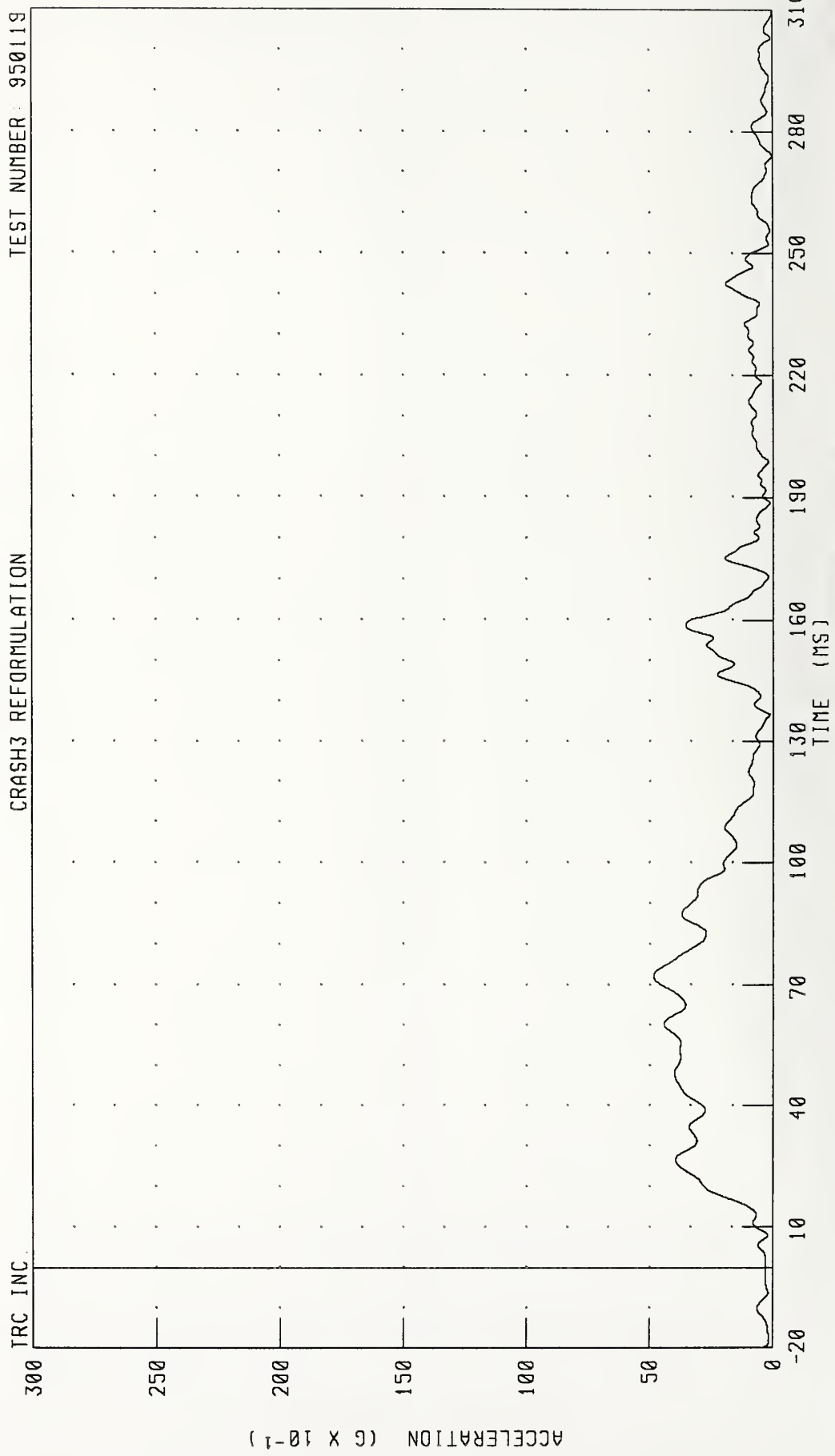
CHANNEL: VCGZ01 FILTER: CH CLASS 180

PEAK DATA 116.67 MM @ 310.00 MS; -1.24 MM @ 48.56 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
VEHICLE CG RESULTANT ACCELERATION

TEST NUMBER: 950118

CRASH3 REFORMULATION



CHANNEL: VCGRG1 FILTER: CH. CLASS 60

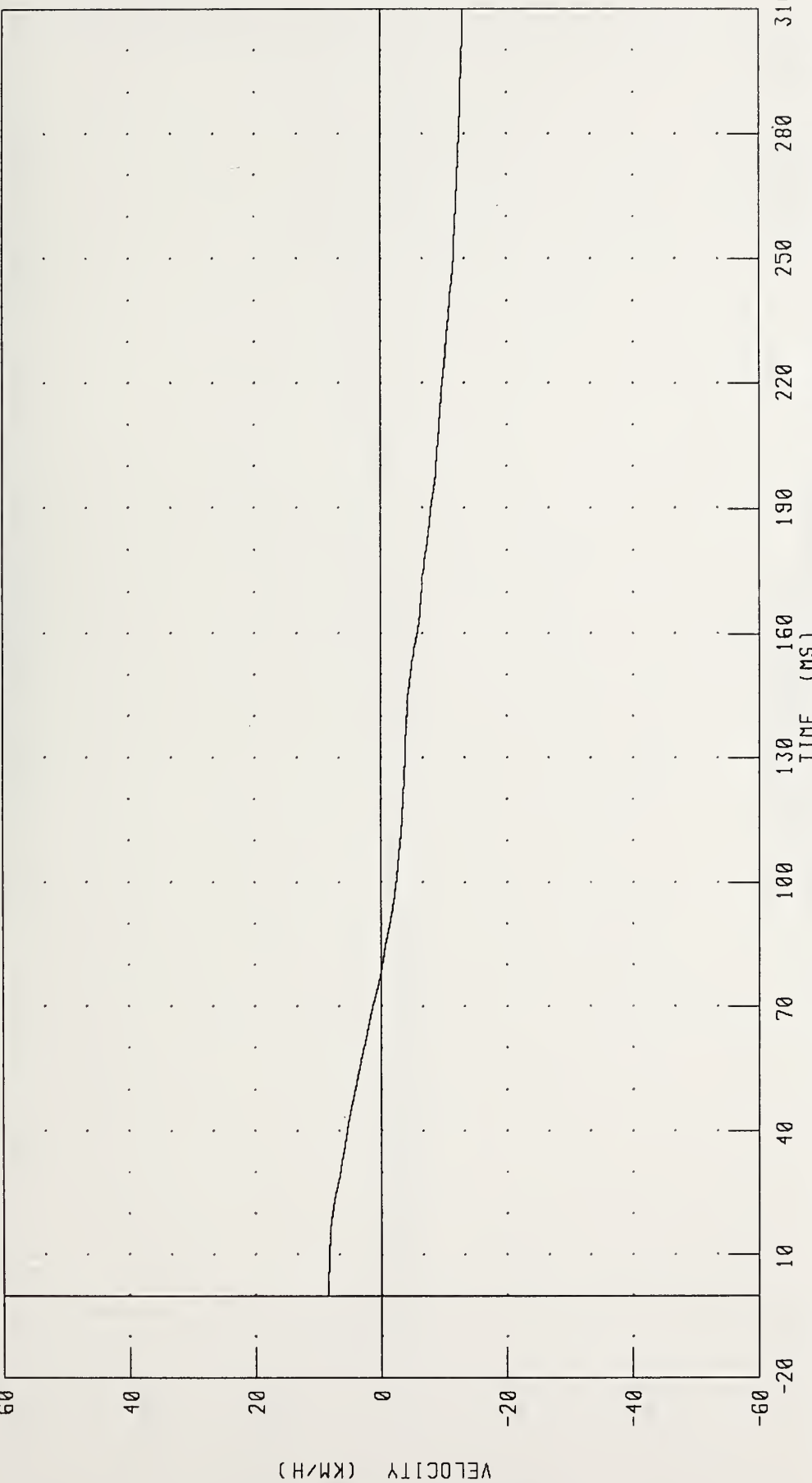
PEAK DATA: 4.86 G @ 72.16 MS, 0.04 G @ 274.08 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
VEHICLE CG RESULTANT VELOCITY

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC.



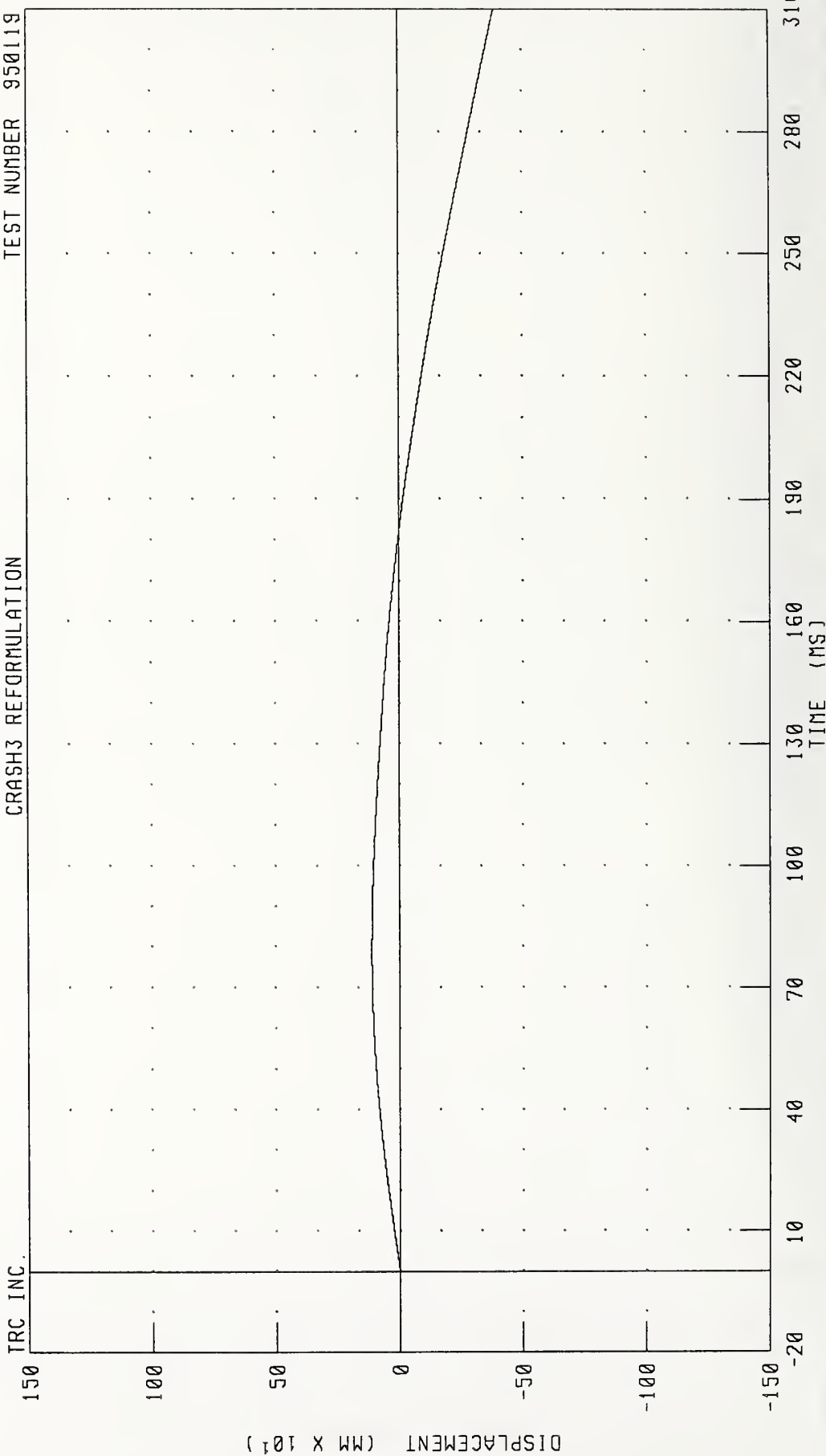
CHANNEL: VCGRV1 FILTER: CH CLASS 180 PEAK DATA: 8 50 KM/H @ 0 00 MS; -13 08 KM/H @ 310 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5

VEHICLE CG RESULTANT DISPLACEMENT

CRASH3 REFORMULATION

TEST NUMBER 950119



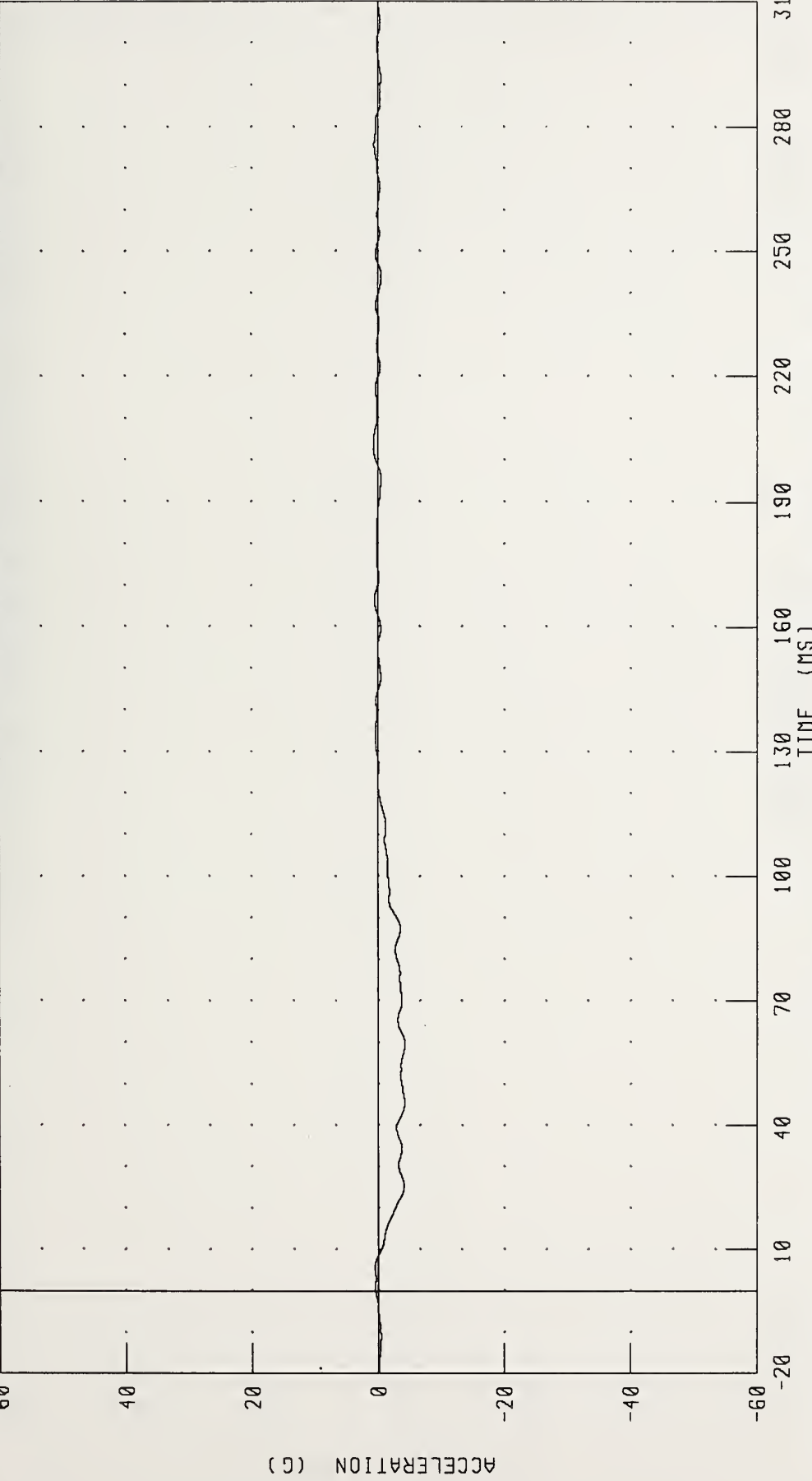
CHANNEL: VCGRD1 FILTER: CH CLASS 180

PEAK DATA: 112.71 MM @ 78.48 MS, -388.68 MM @ 310.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
LEFT FRONT SILL X-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119

IRC INC.

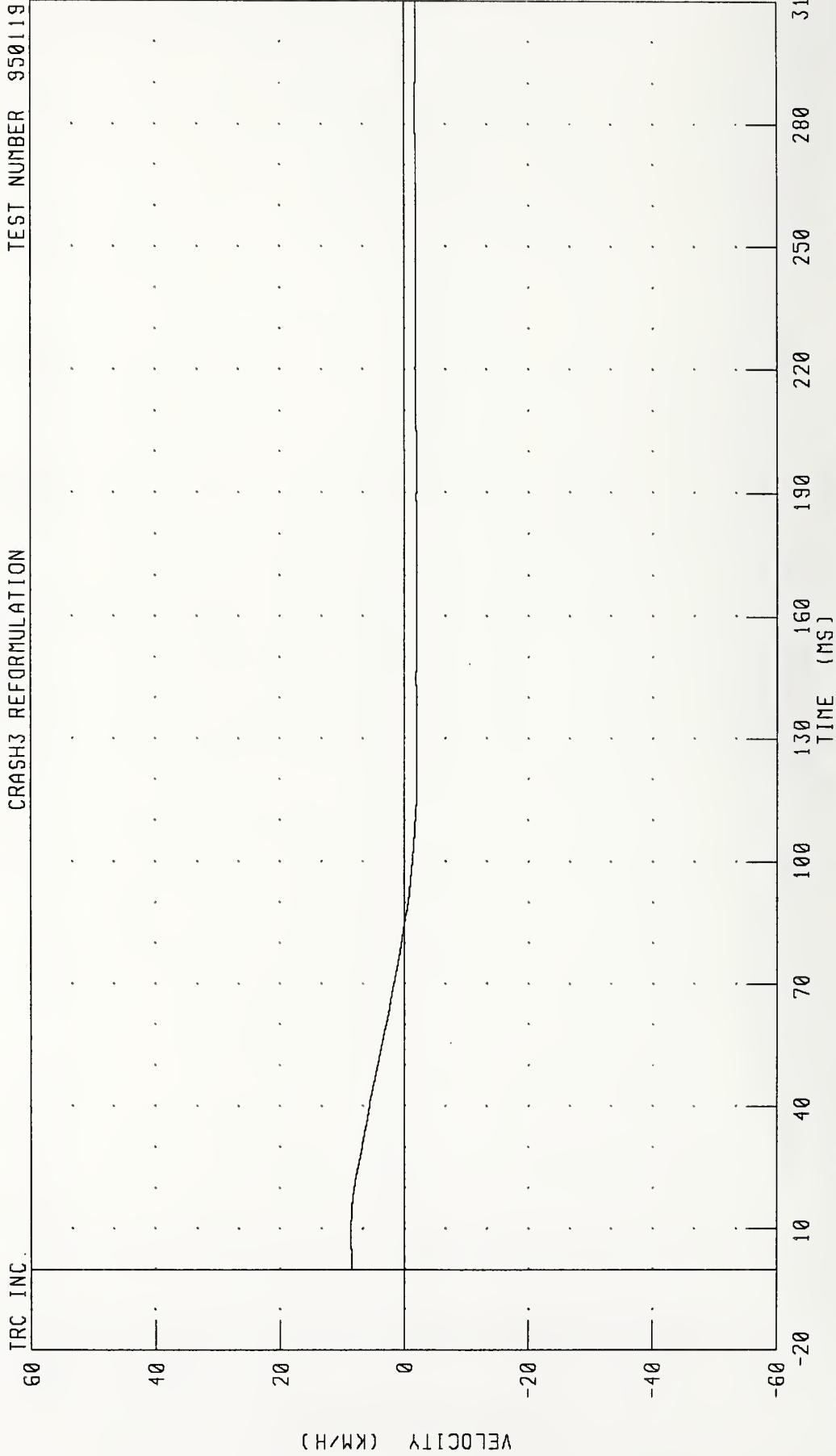


CHANNEL: LFSXG1 FILTER: CH CLASS 60

PEAK DATA 0 66 G @ 204.96 MS, -4 30 G @ 59.68 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
LEFT FRONT SILL X-AXIS VELOCITY

TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119

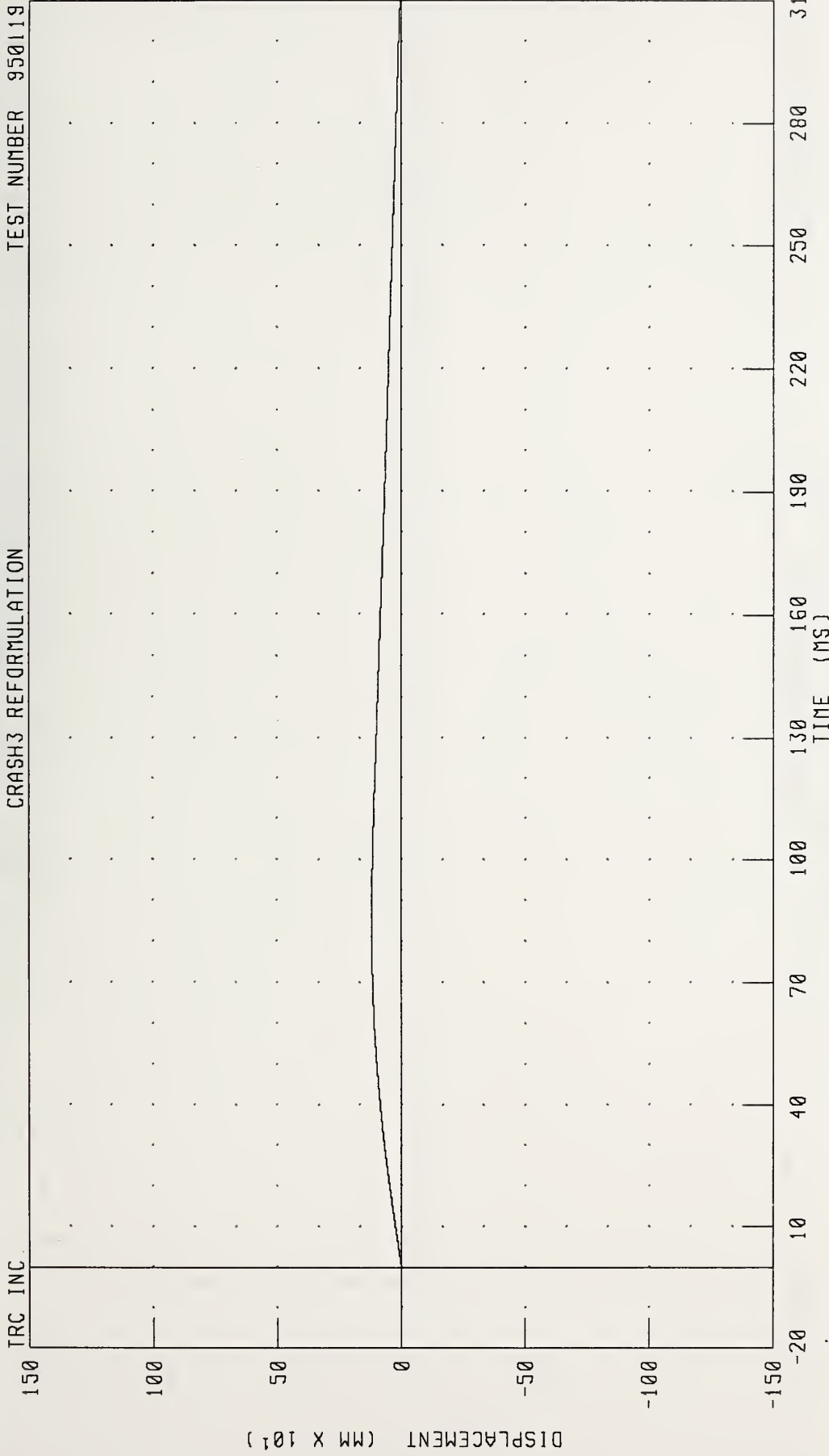


CHANNEL LFSXV1 FILTER: CH CLASS 180

PEAK DATA: 8.64 KM/H @ 8.88 MS; -2.09 KM/H @ 129.60 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
LEFT FRONT SILL X-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER 950119

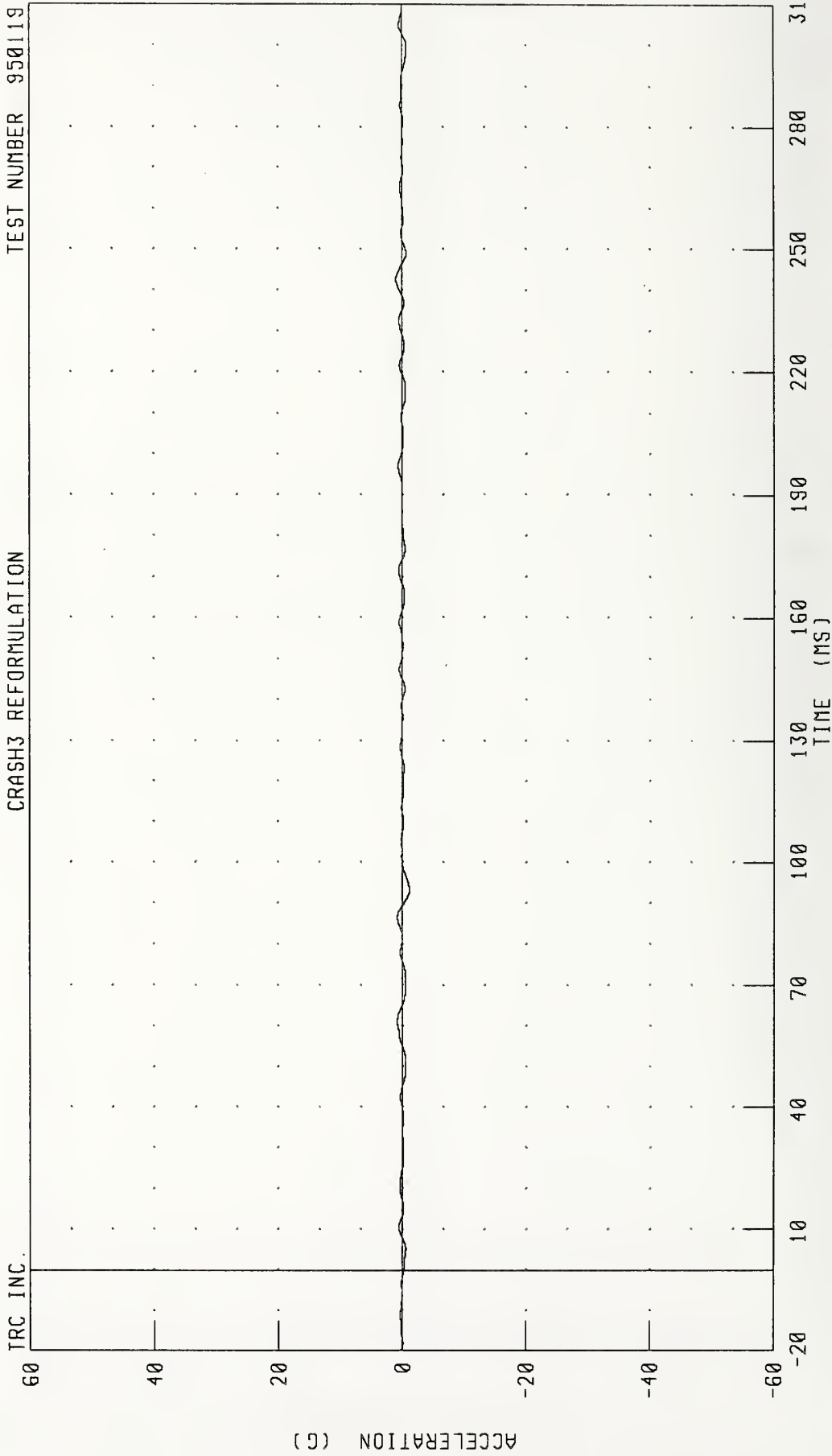


CHANNEL LFSXD1 FILTER: CH. CLASS 180

PEAK DATA 119 09 MM @ 84.88 MS; 0 00 MM @ 0 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
LEFT FRONT SILL Y-AXIS ACCELERATION

TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119

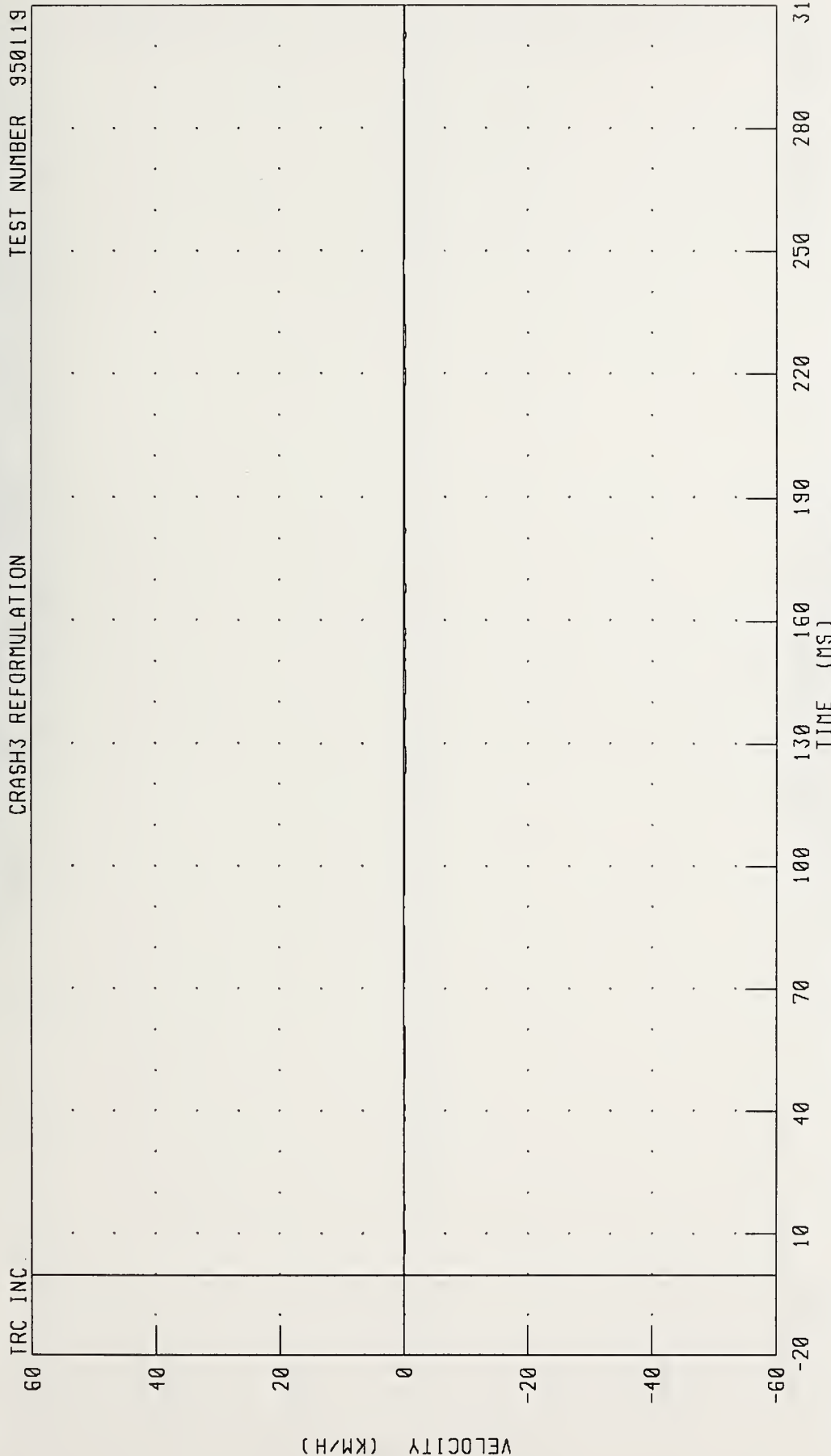


CHANNEL: LFSYG1 FILTER: CH CLASS 60

PEAK DATA 1.01 G @ 242.56 MS, -1.16 G @ 93.36 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
 LEFT FRONT SILL Y-AXIS VELOCITY

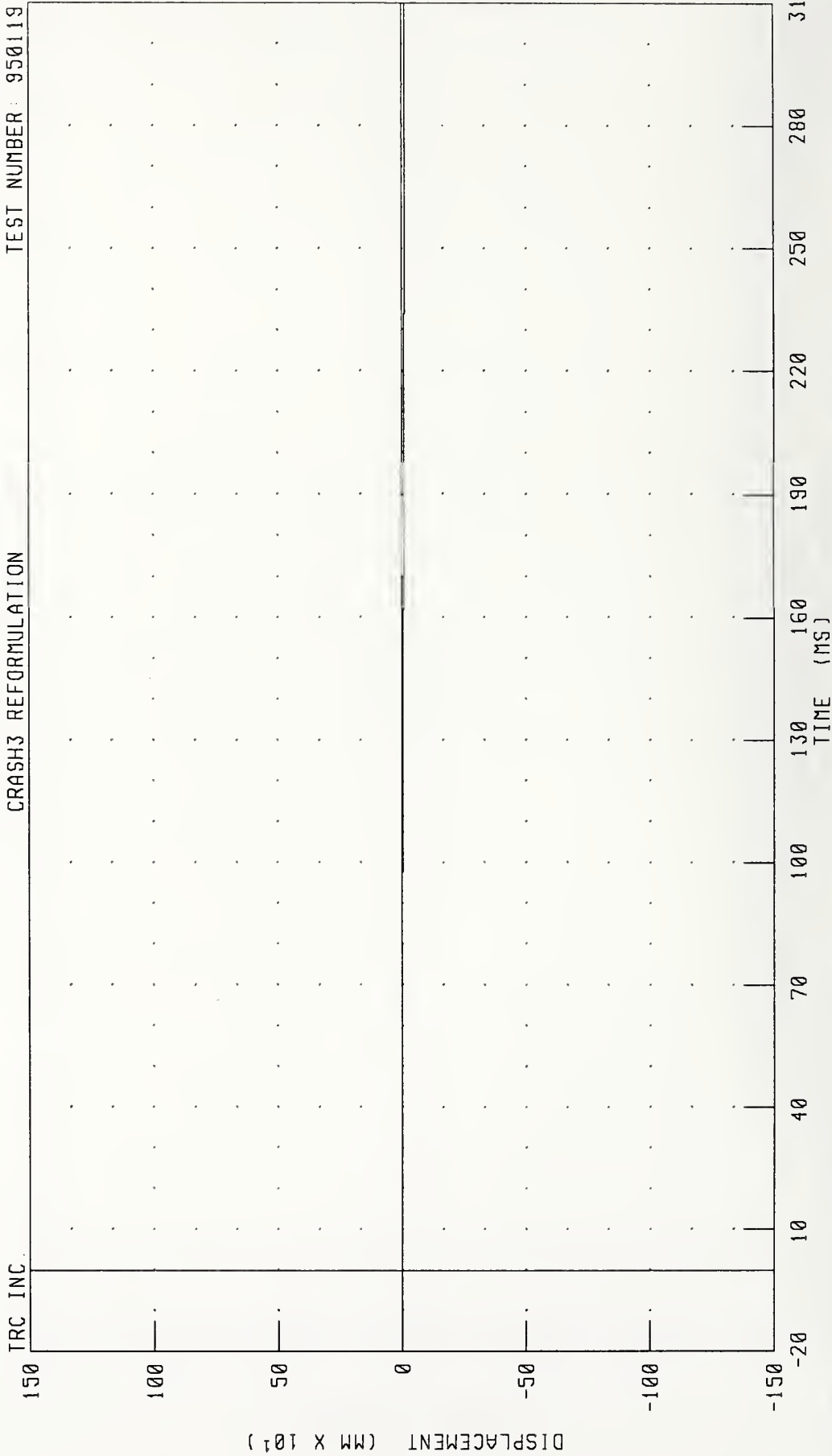
TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL: LFSYV1 FILTER: CH CLASS 180 PEAK DATA: 0 03 KM/H @ 89 04 MS, -0 31 KM/H @ 145 60 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
 LEFT FRONT SILL Y-AXIS DISPLACEMENT

TRC INC. CRASH3 REFORMULATION TEST NUMBER: 950119

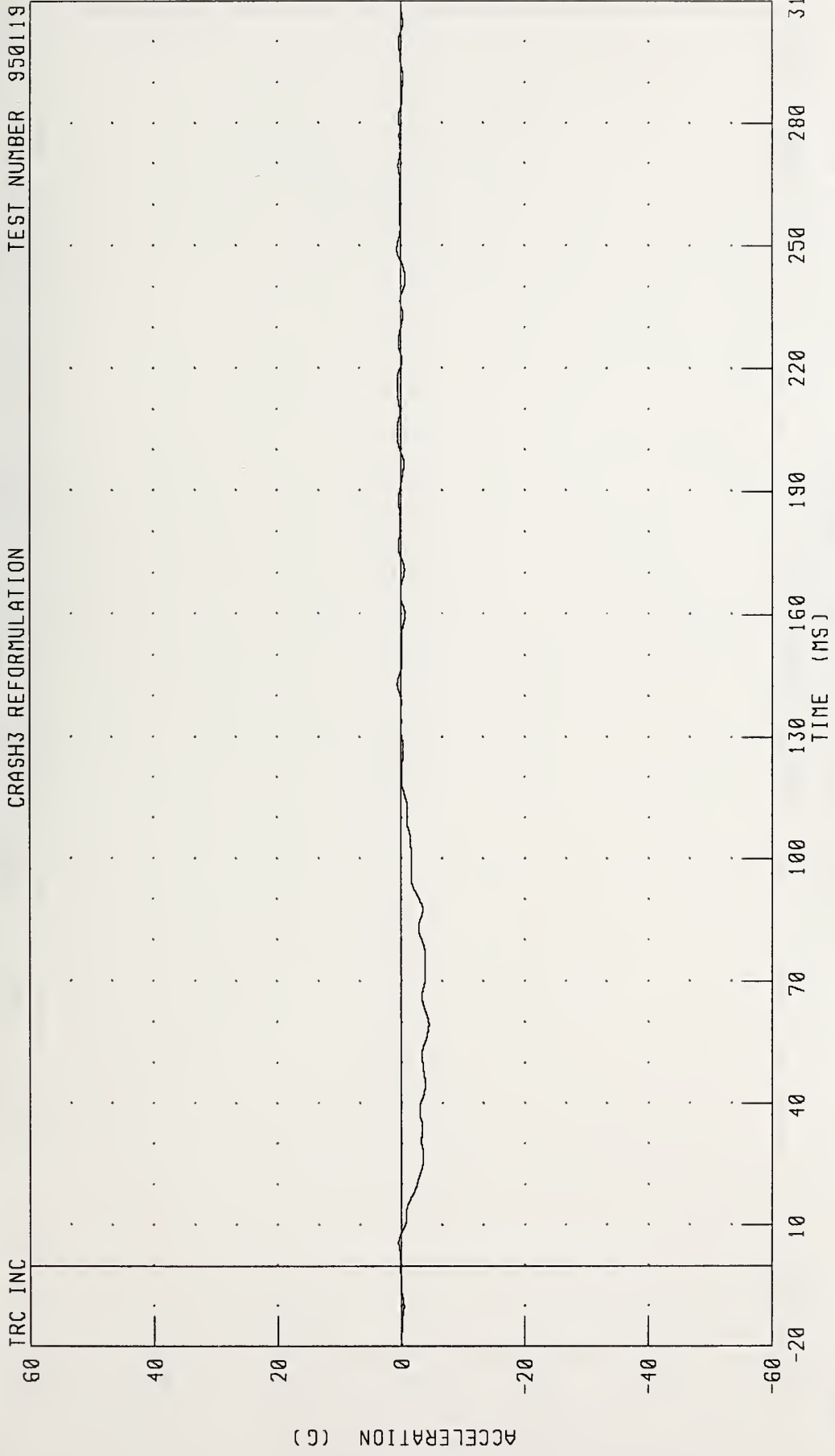


CHANNEL: LFSYD1 FILTER: CH. CLASS 180

PEAK DATA: 0 00 MM @ 0 00 MS; -13 13 MM @ 310 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
RIGHT FRONT SILL X-AXIS ACCELERATION

TRC INC
CRASH3 REFORMULATION
TEST NUMBER 950119

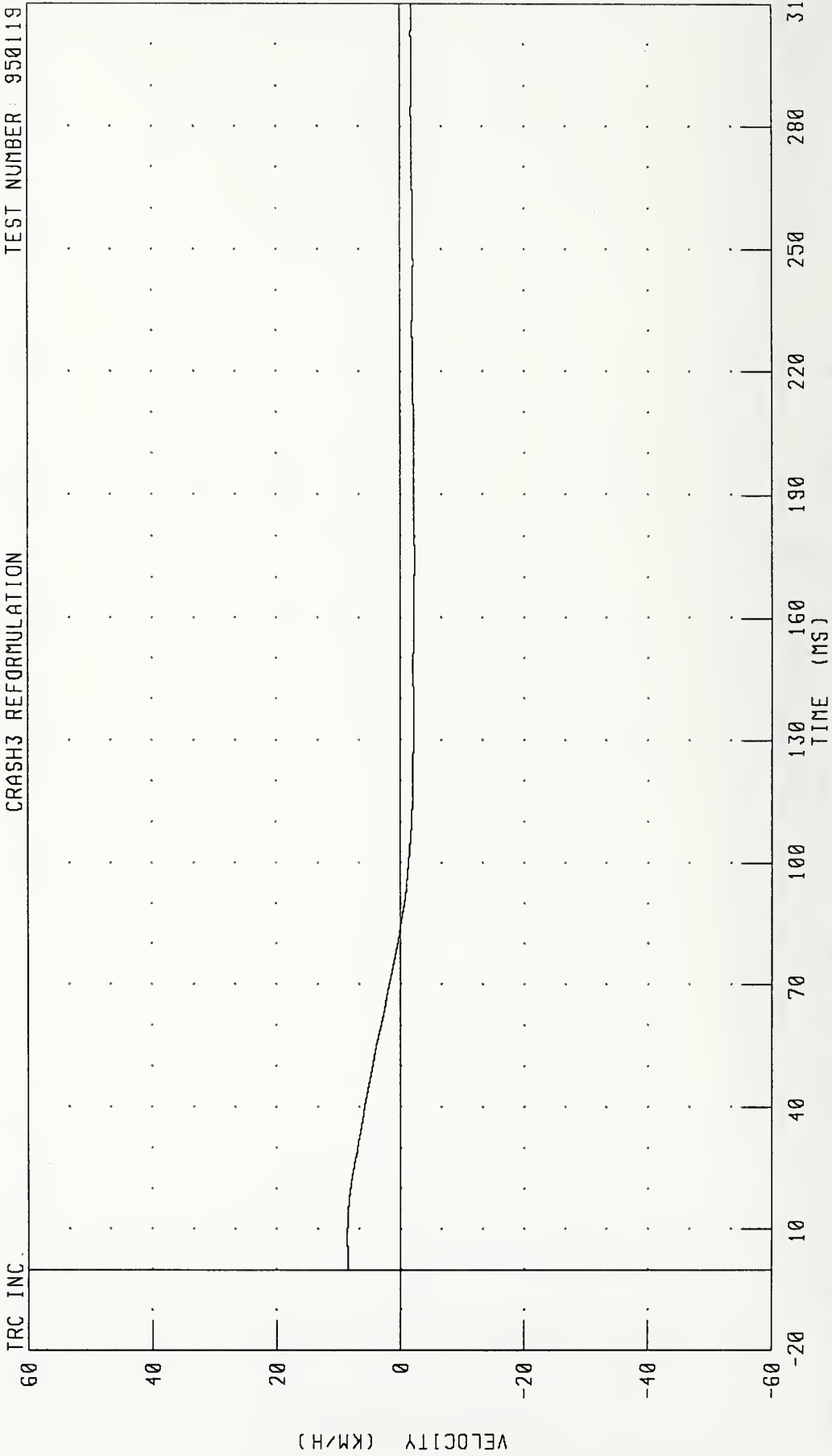


CHANNEL RFSXG1 FILTER CH CLASS 60

PEAK DATA: 0.64 G @ 249.12 MS, -4.48 G @ 59.36 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
RIGHT FRONT SILL X-AXIS VELOCITY

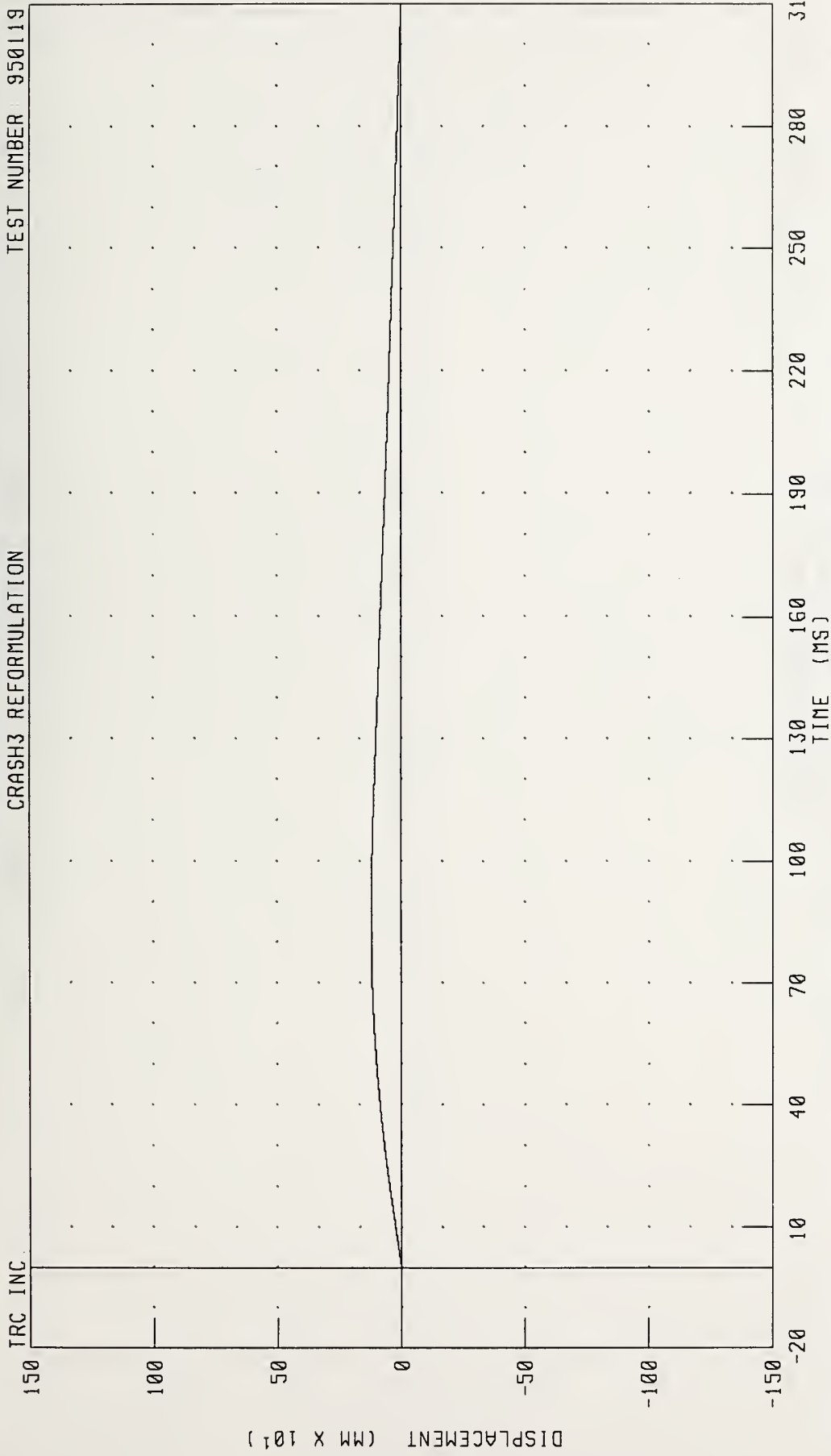
CRASH3 REFORMULATION TEST NUMBER: 950119



CHANNEL: RFSXV1 FILTER: CH CLASS 180

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
RIGHT FRONT SILL X-AXIS DISPLACEMENT

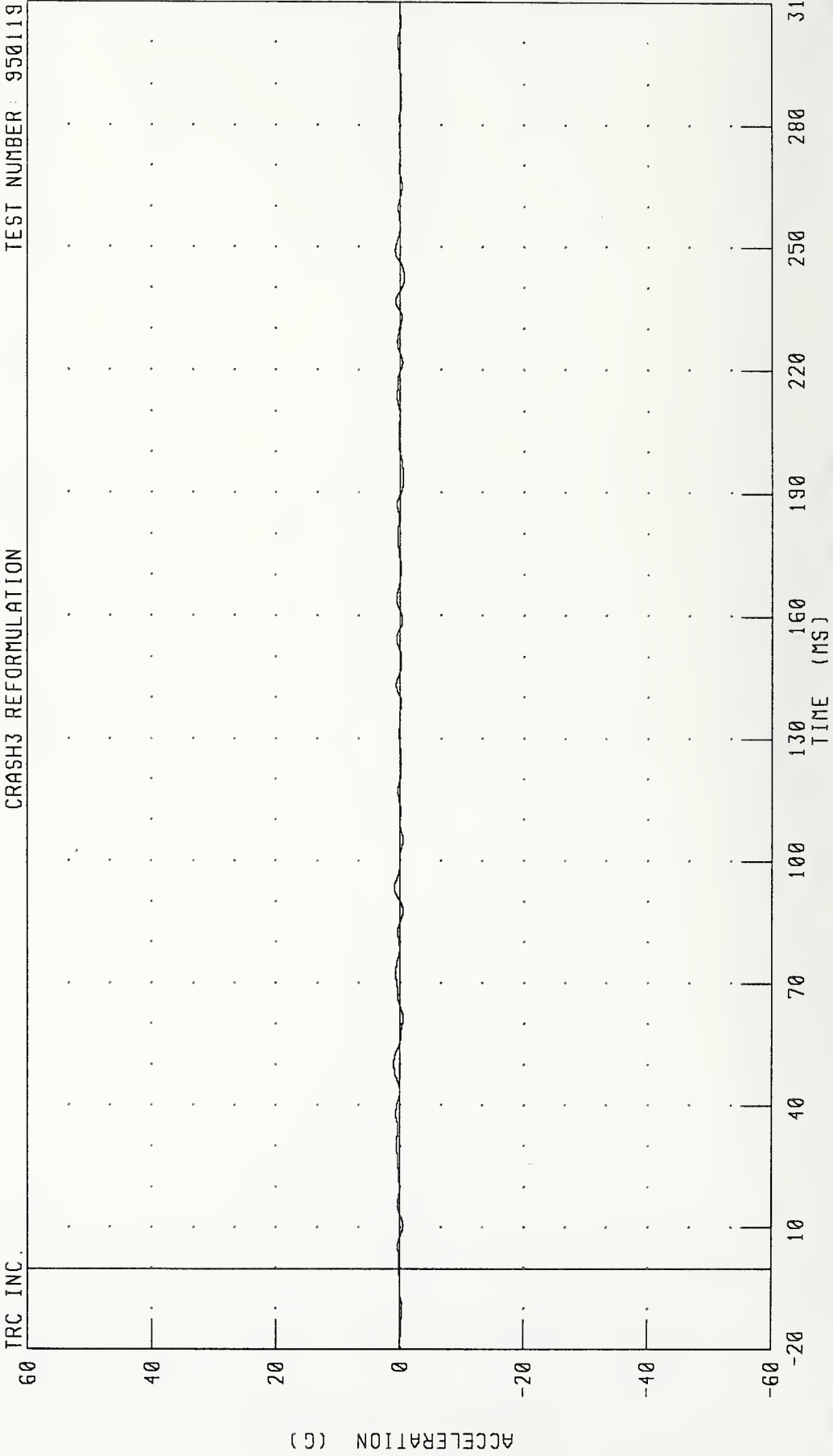
TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL: RFSXD1 FILTER: CH. CLASS 180 PEAK DATA: 120.75 MM @ 84.48 MS; -0.47 MM @ 310.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
RIGHT FRONT SILL Y-AXIS ACCELERATION

TRC INC. CRASH3 REFORMULATION TEST NUMBER: 950119



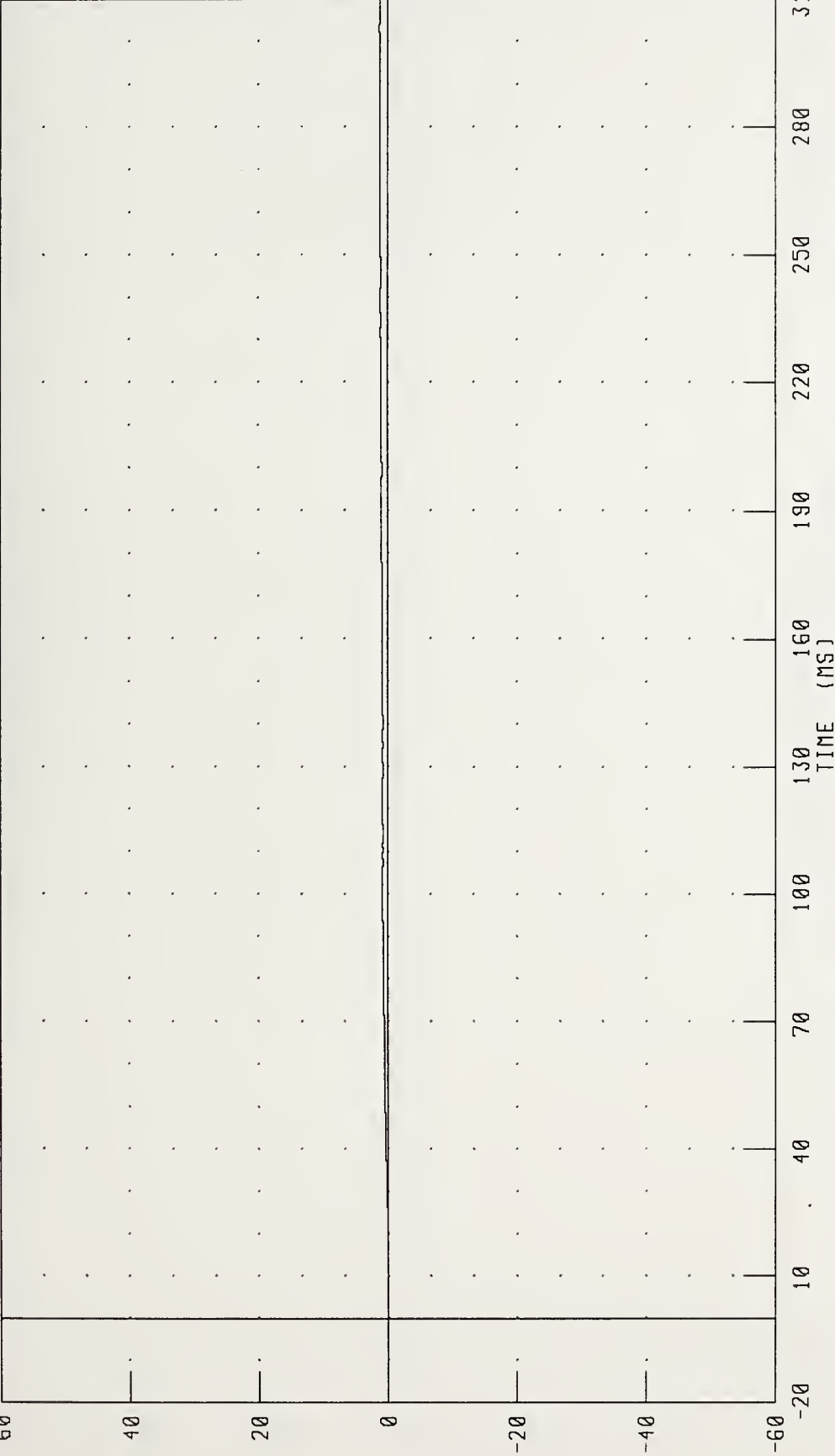
CHANNEL: RFSYG1 FILTER: CH. CLASS 60

PEAK DATA: 0.96 G @ 50.08 MS; -0.70 G @ 242.56 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
 RIGHT FRONT SILL Y-AXIS VELOCITY

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC
 60



CHANNEL: RFSYV1 FILTER: CH CLASS 180

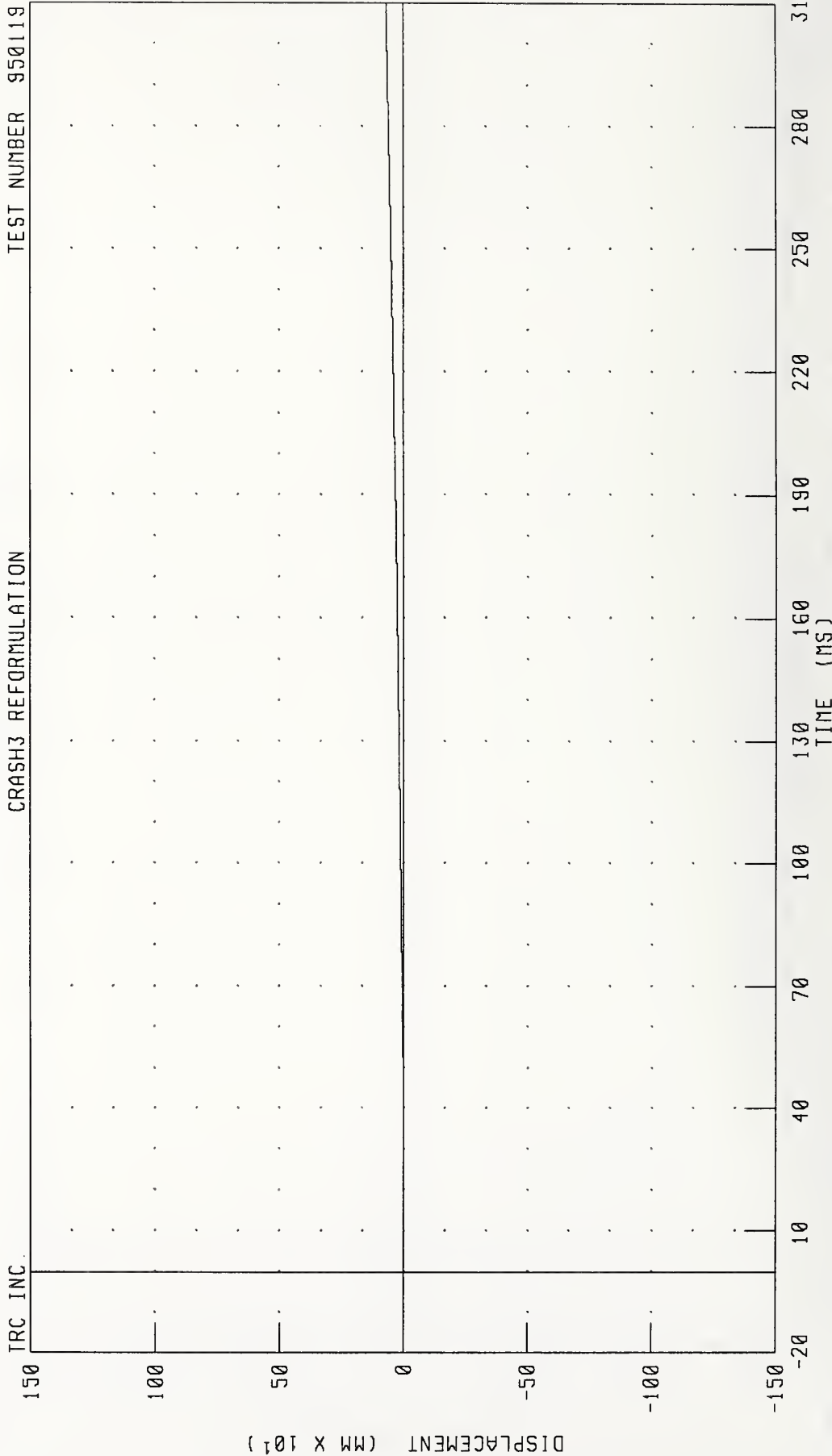
PEAK DATA: 1.29 KM/H @ 302.96 MS, -0.02 KM/H @ 13.04 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5

RIGHT FRONT SILL Y-AXIS DISPLACEMENT

CRASH3 REFORMULATION

TEST NUMBER 950119



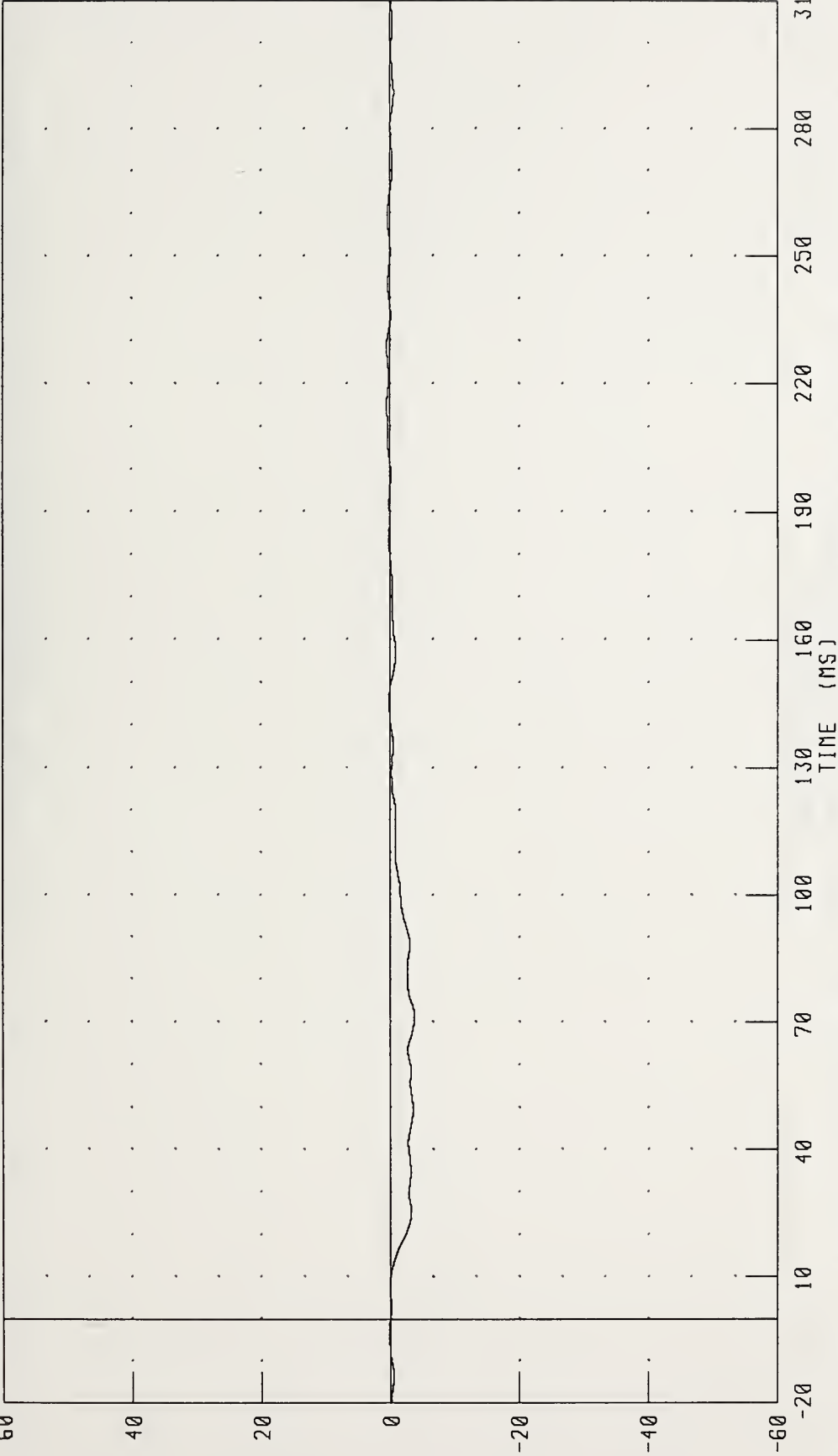
CHANNEL: RFSYD1 FILTER: CH CLASS 180

PEAK DATA: 70 04 MM @ 310 00 MS; 0 00 MM @ 0 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
LEFT REAR SEAT X-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC



CHANNEL TLRXG1 FILTER CH CLASS 60

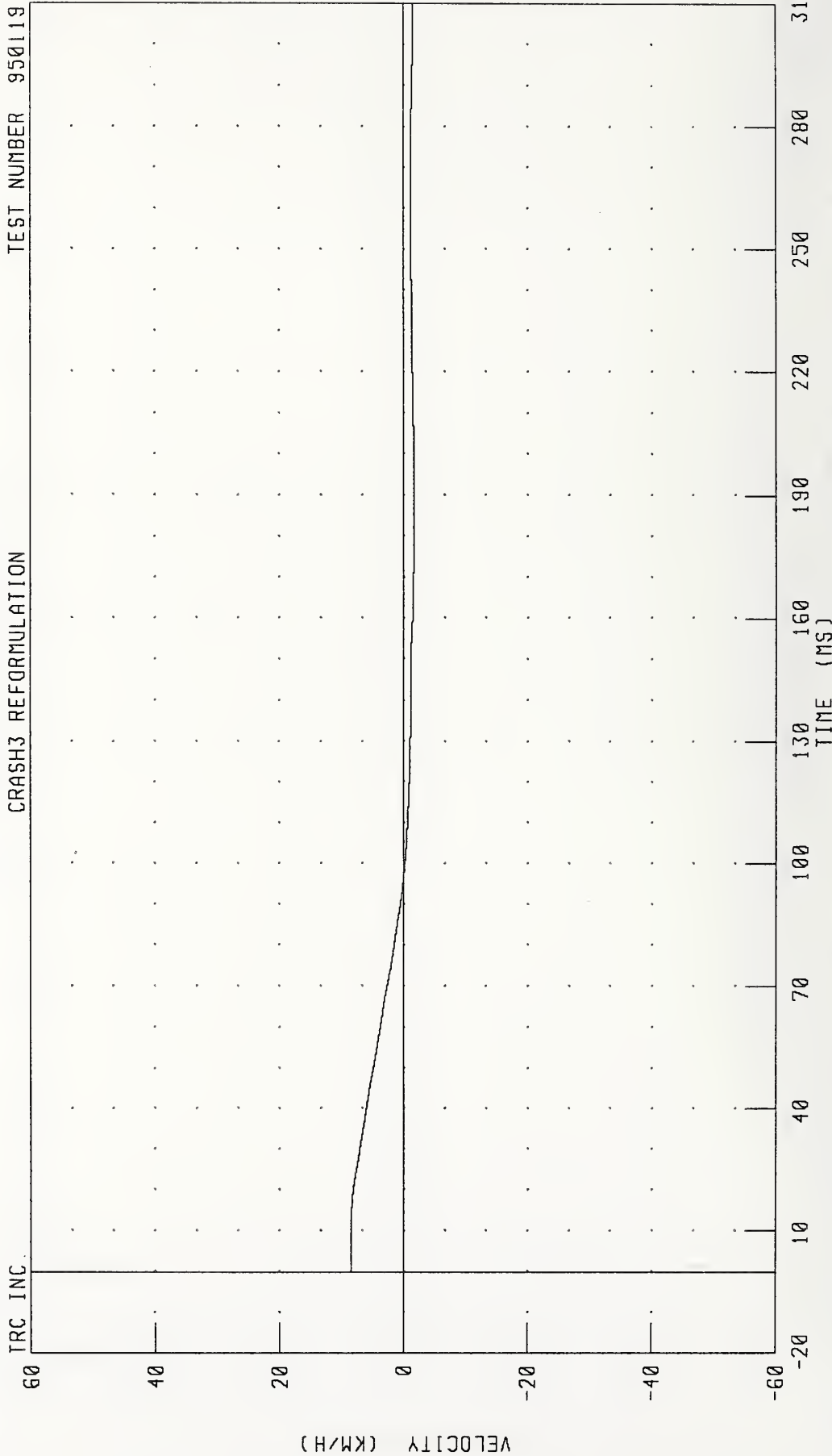
PEAK DATA: 0.49 G @ 214.00 MS, -3.74 G @ 71.12 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5

LEFT REAR SEAT X-AXIS VELOCITY

CRASH3 REFORMULATION

TEST NUMBER 950119



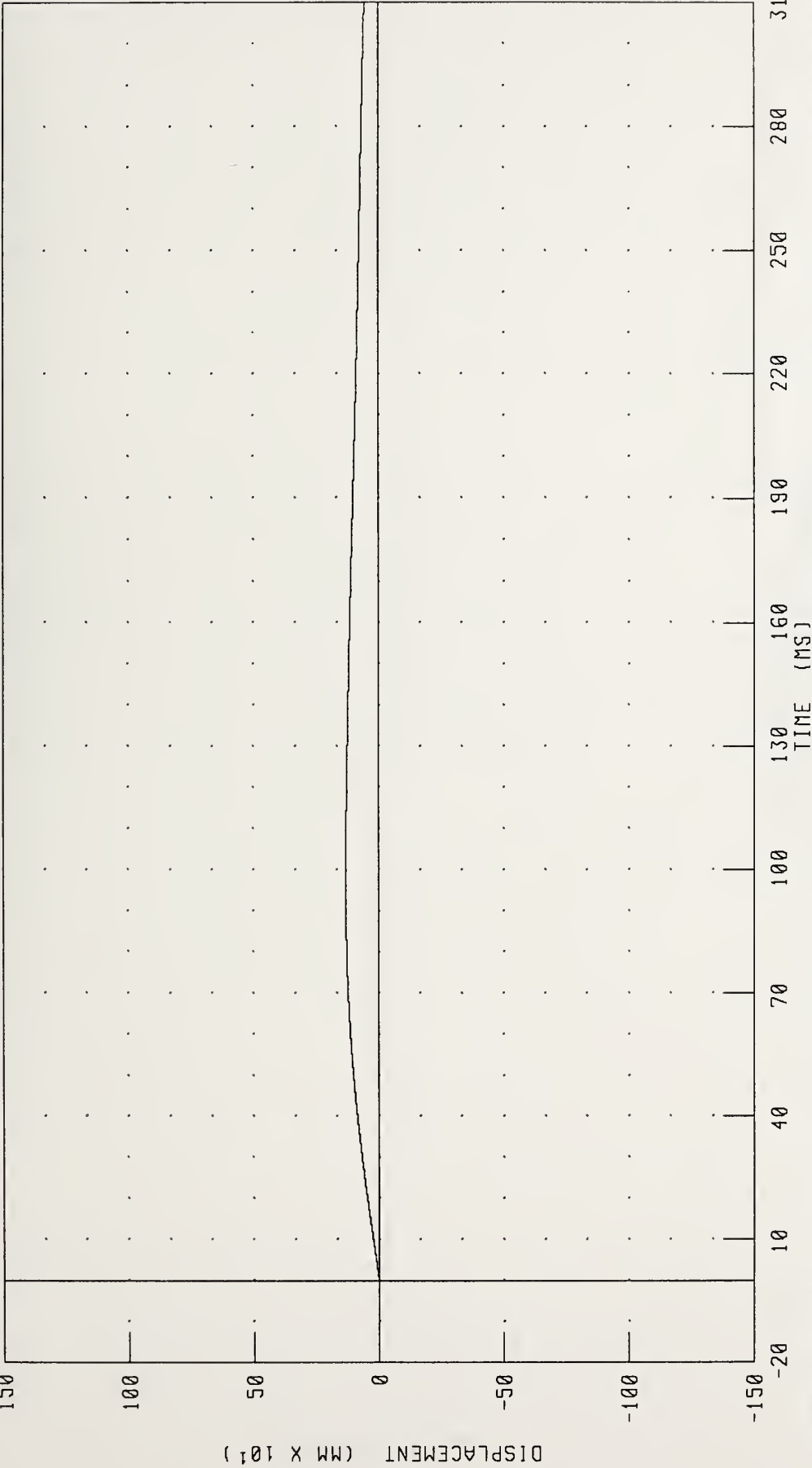
CHANNEL: TLRXV1 FILTER: CH. CLASS 180

PEAK DATA: 8.50 KM/H @ 0.00 MS, -1.68 KM/H @ 179.68 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
LEFT REAR SEAT X-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC



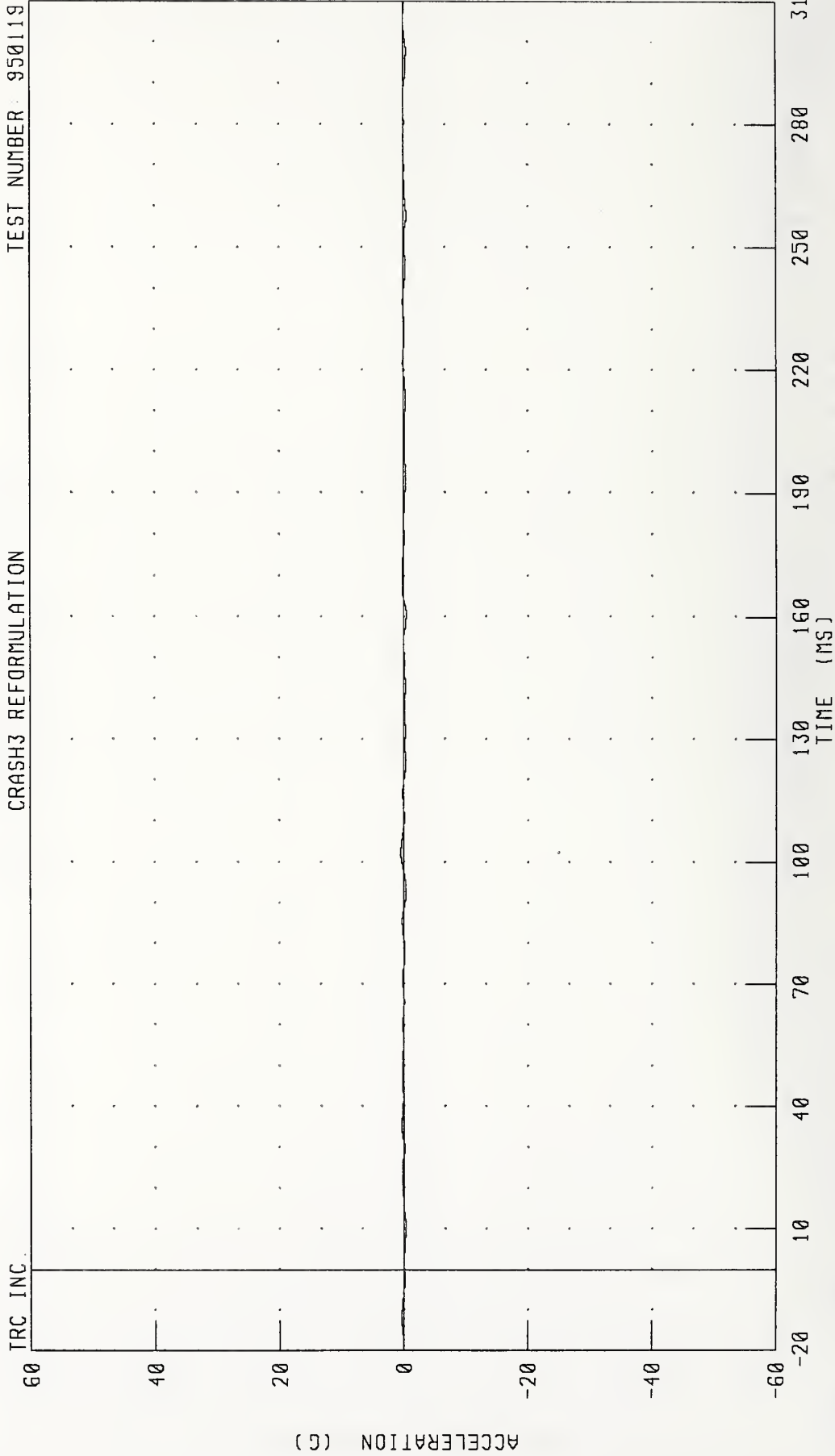
CHANNEL: TLRXD1 FILTER: CH. CLASS 180

PEAK DATA: 131.61 MM @ 96.40 MS, 0 00 MM @ 0 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5

LEFT REAR SEAT Y-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER: 950119

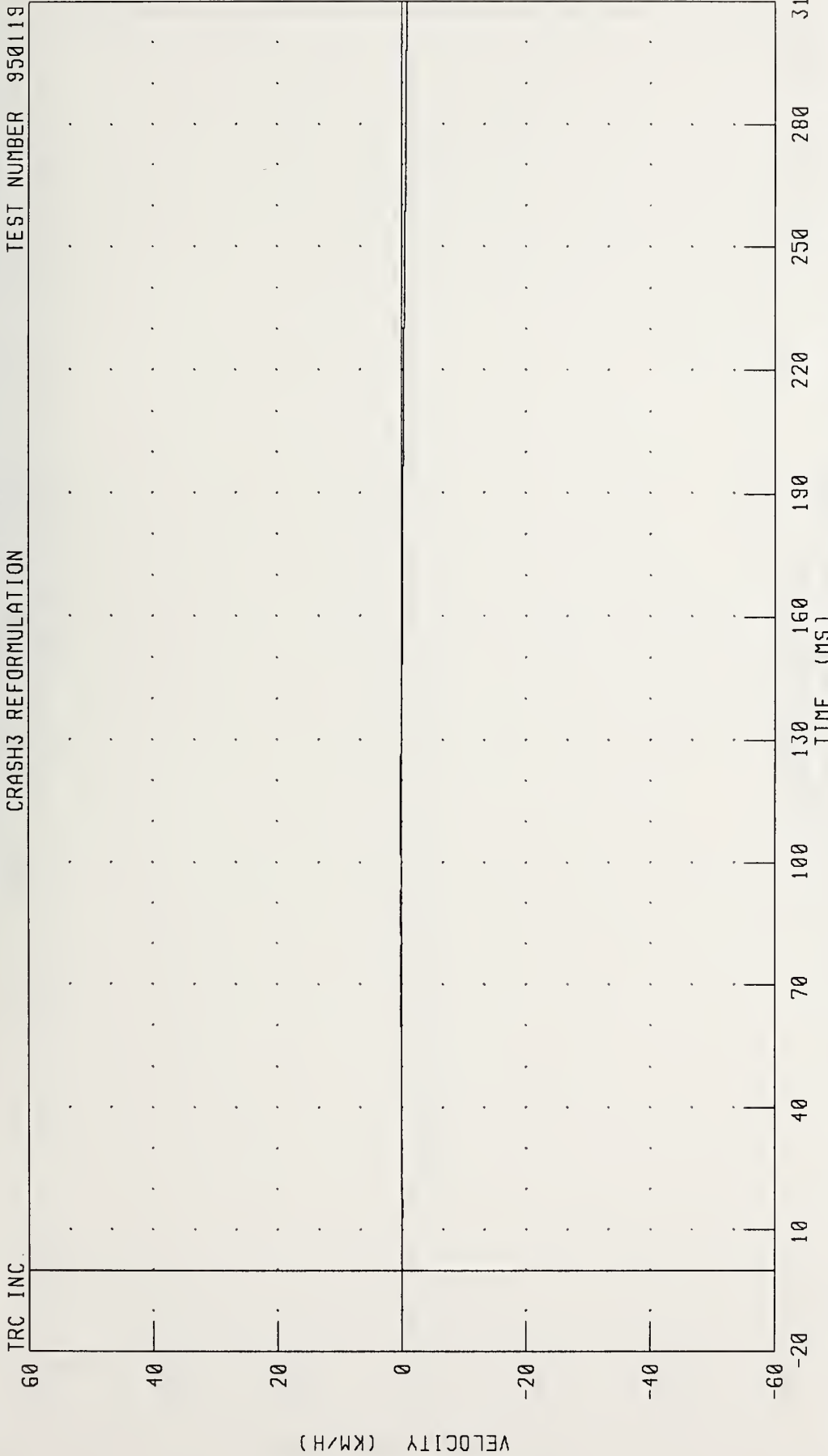


CHANNEL: TLRYG1 FILTER: CH CLASS 60

PEAK DATA: 0.47 G @ 102.40 MS; -0.45 G @ 160.64 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
 LEFT REAR SEAT Y-AXIS VELOCITY

TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119

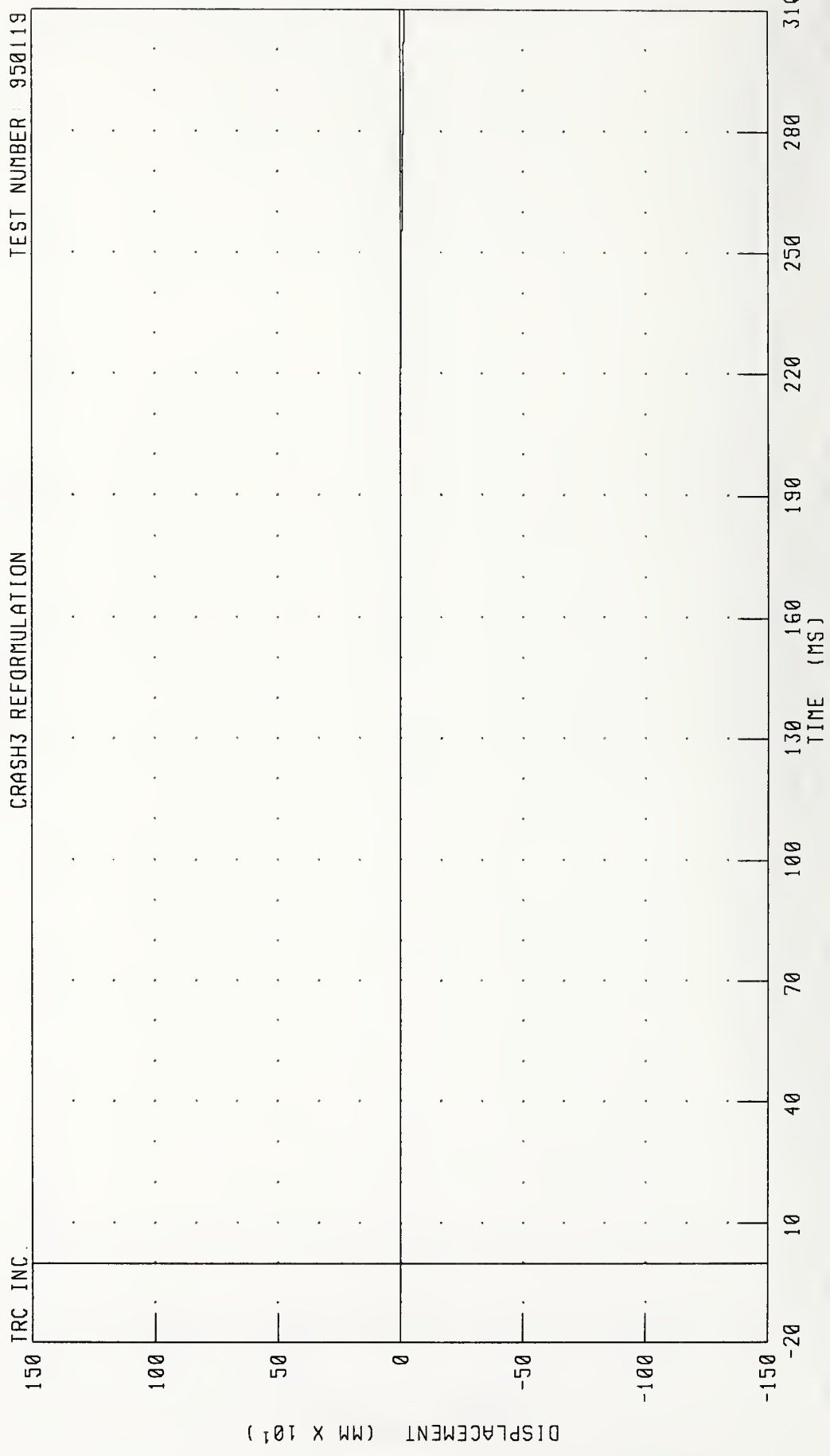


CHANNEL: TLRYV1 FILTER: CH CLASS 180

PEAK DATA 0.16 KM/H @ 117.60 MS, -0.83 KM/H @ 310.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
 LEFT REAR SEAT Y-AXIS DISPLACEMENT

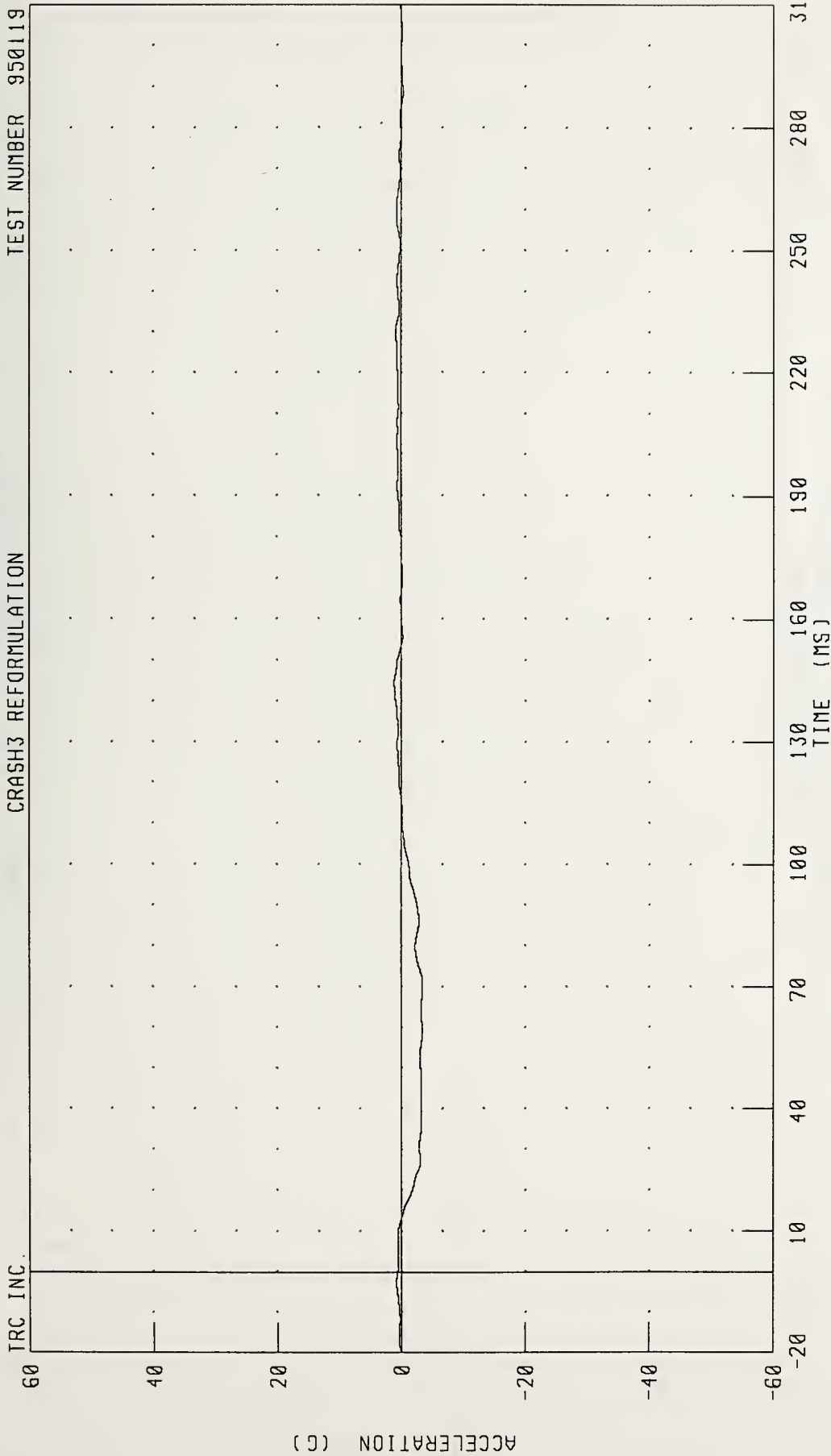
TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL: TLRYD1 FILTER: CH. CLASS 180
 PEAK DATA: 2 36 MM @ 138 48 MS, -16 46 MM @ 310 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
RIGHT REAR SEAT X-AXIS ACCELERATION

TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL: TRRXG1 FILTER: CH CLASS 60

PEAK DATA: 1.14 G @ 144.56 MS;

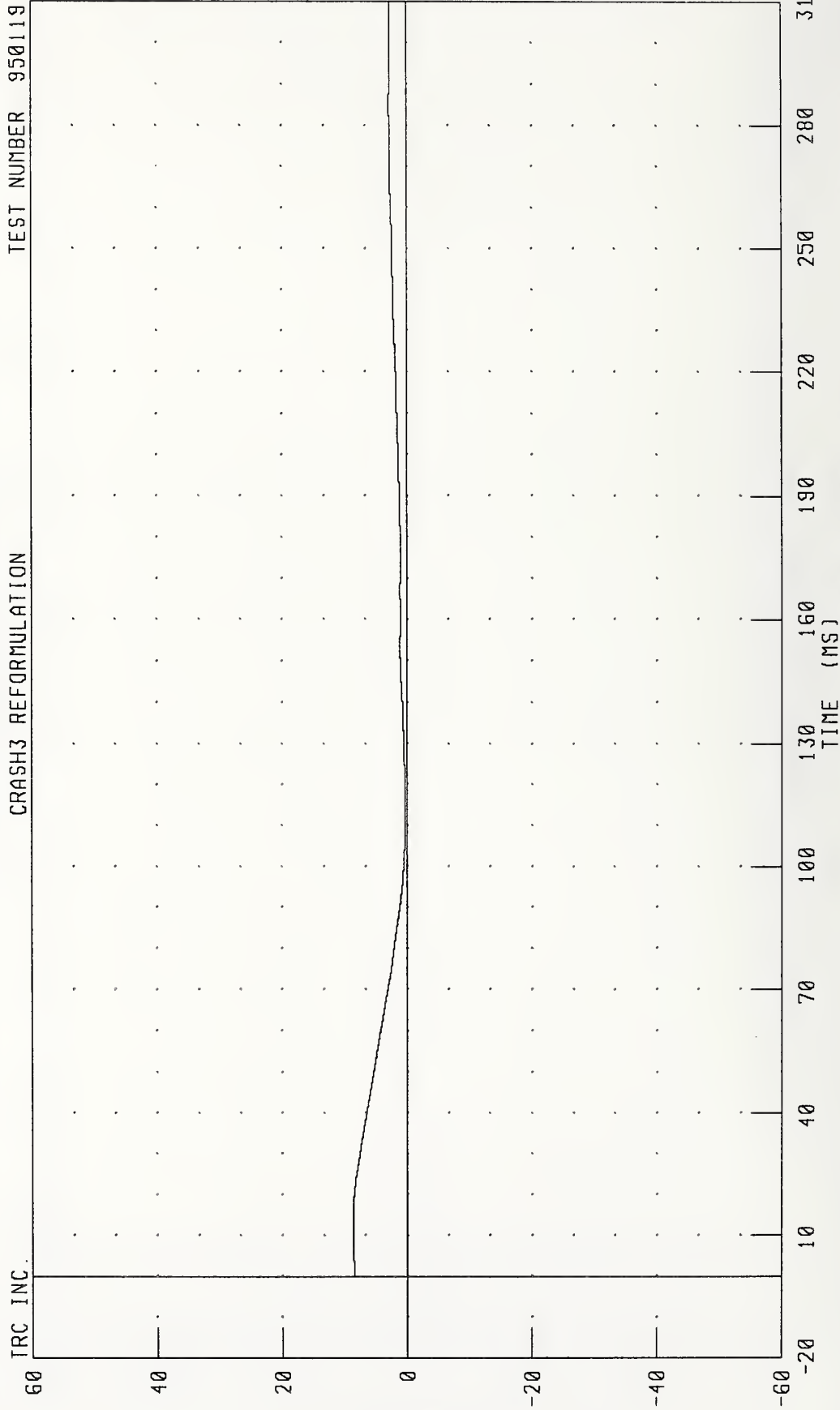
-3.44 G @ 70.72 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5

RIGHT REAR SEAT X-AXIS VELOCITY

CRASH3 REFORMULATION

TEST NUMBER 950119



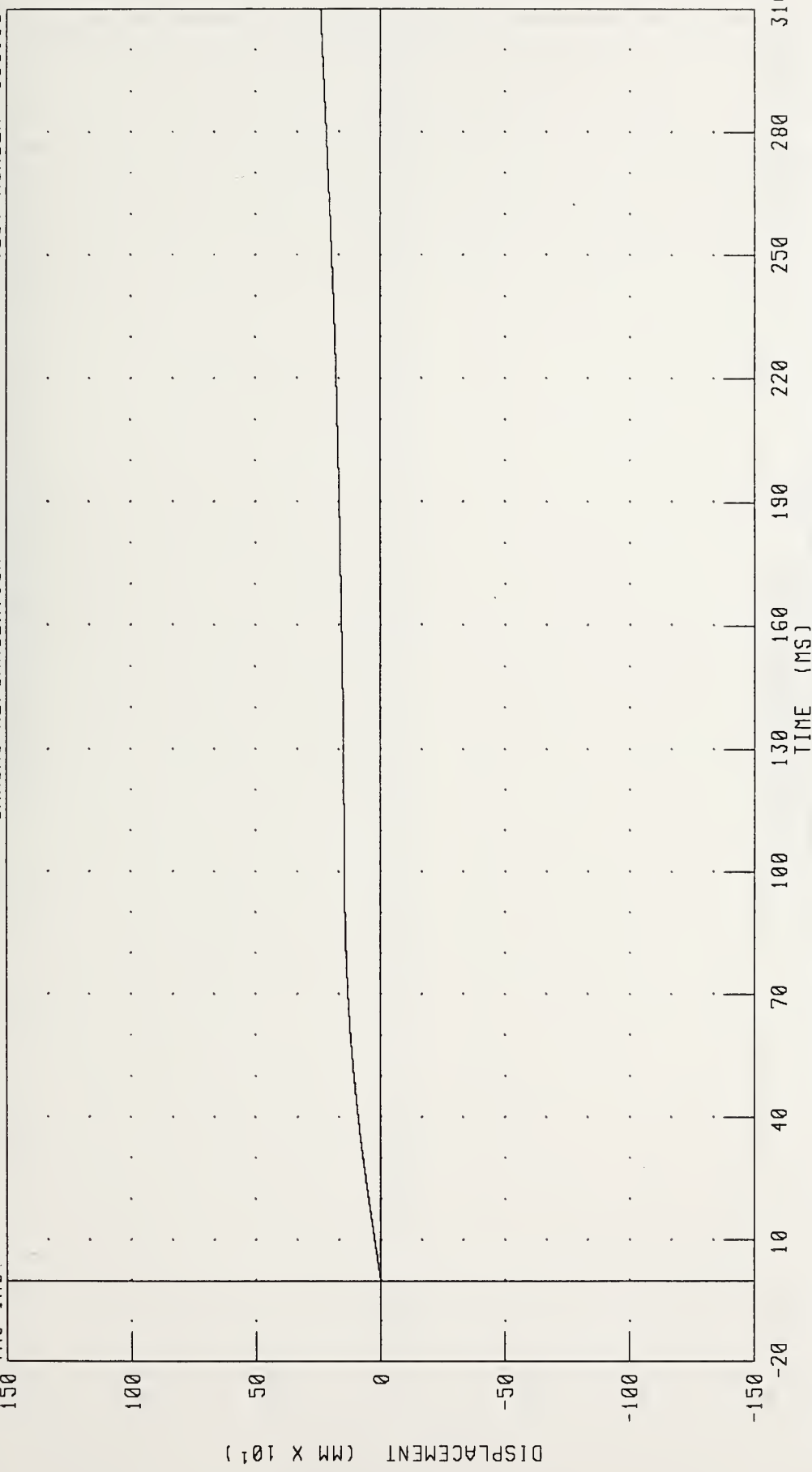
CHANNEL: TRRXV1 FILTER: CH CLASS 180

PEAK DATA: 8.72 KM/H @ 12.80 MS; 0.33 KM/H @ 117.36 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
RIGHT REAR SEAT X-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC



CHANNEL: TRRXD1 FILTER: CH CLASS 180

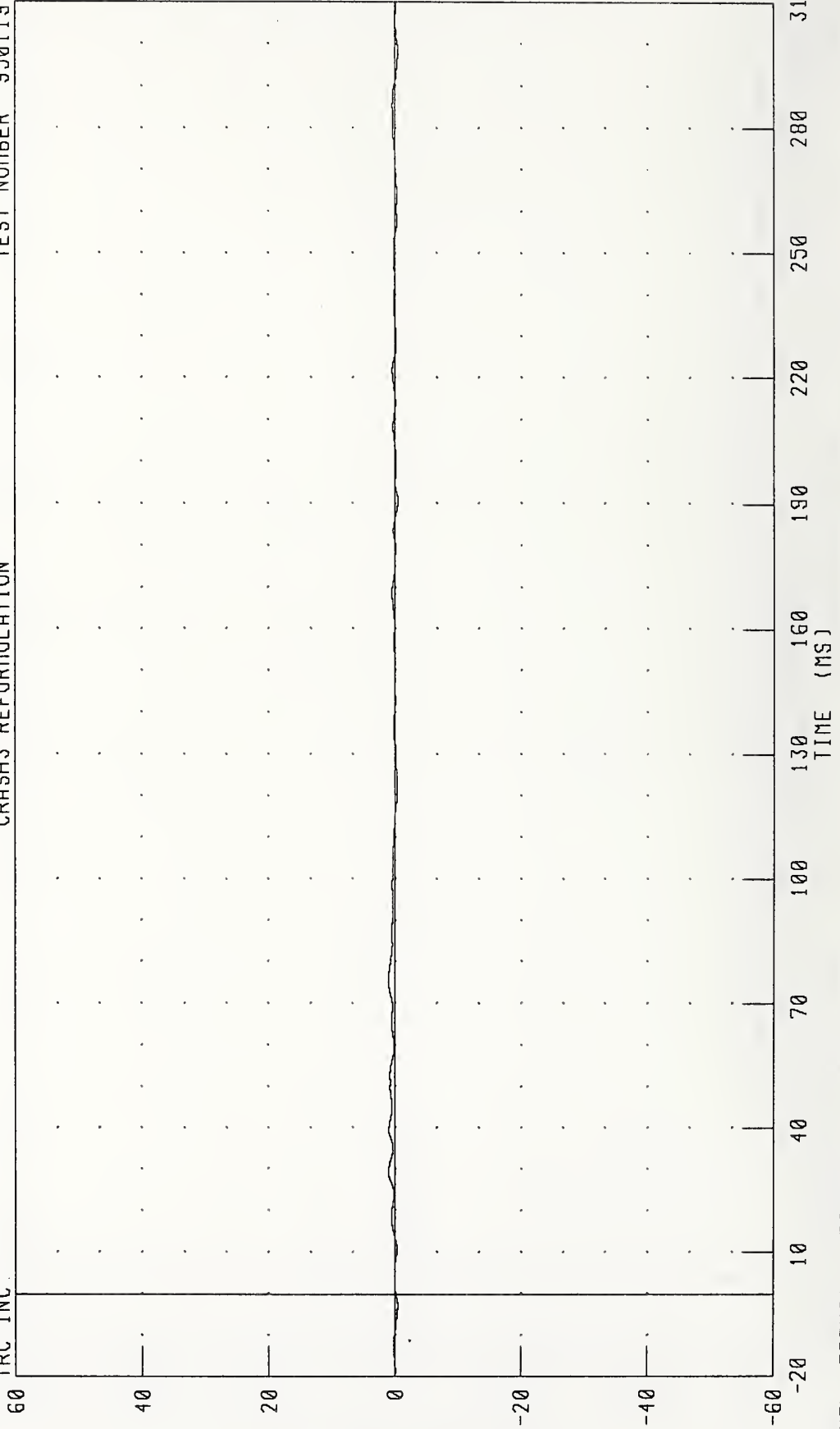
PEAK DATA: 239.73 MM @ 310.00 MS; 0.00 MM @ 0.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
RIGHT REAR SEAT Y-AXIS ACCELERATION

TEST NUMBER 950119

CRASH3 REFORMULATION

TRC INC



CHANNEL: TRRYG1 FILTER: CH CLASS 60

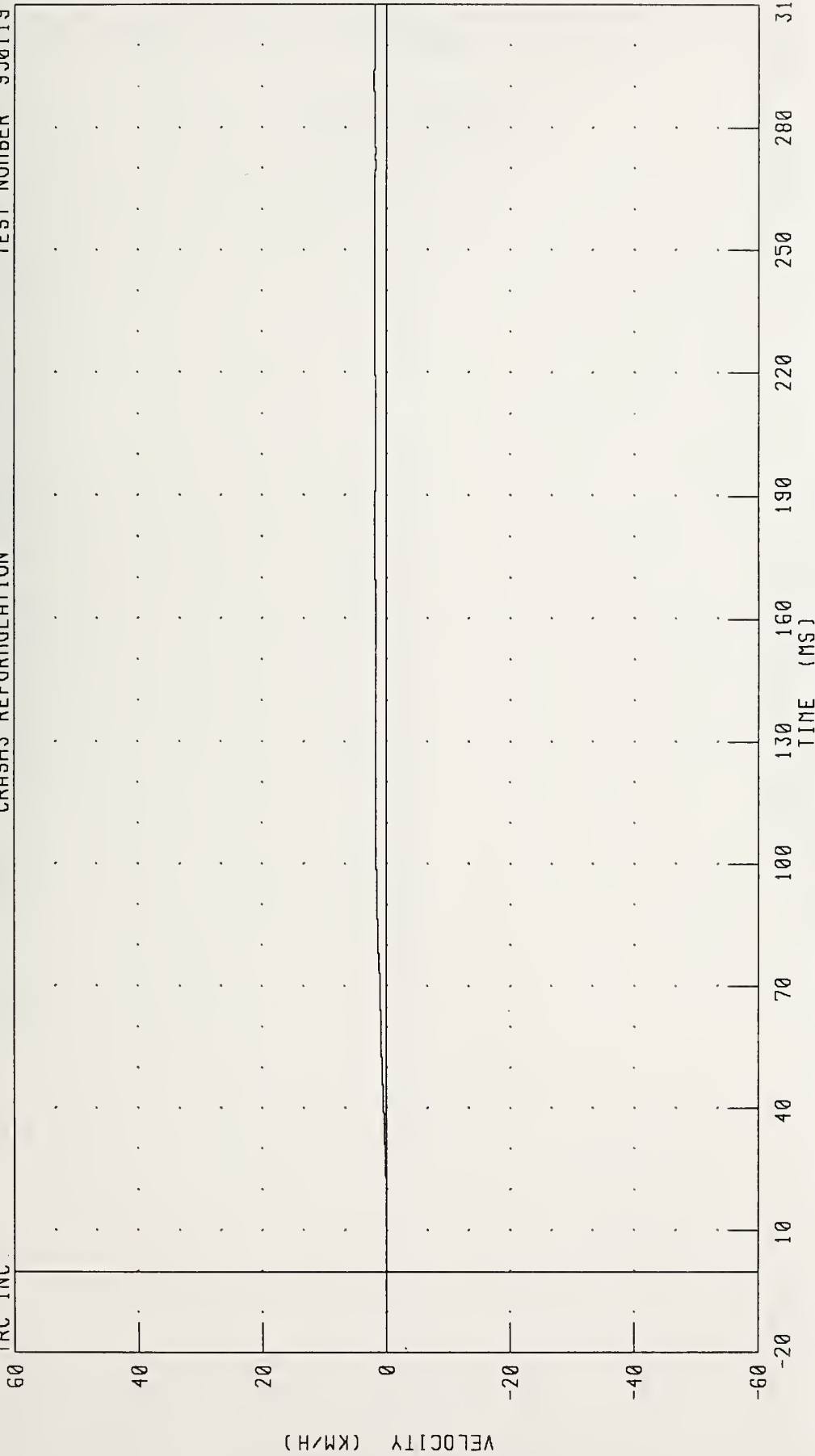
PEAK DATA: 1.02 G @ 29.20 MS, -0.52 G @ 298.16 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
 RIGHT REAR SEAT Y-AXIS VELOCITY

TEST NUMBER 950119

CRASH3 REFORMULATION

TRC INC



CHANNEL TRRYV1 FILTER CH. CLASS 180

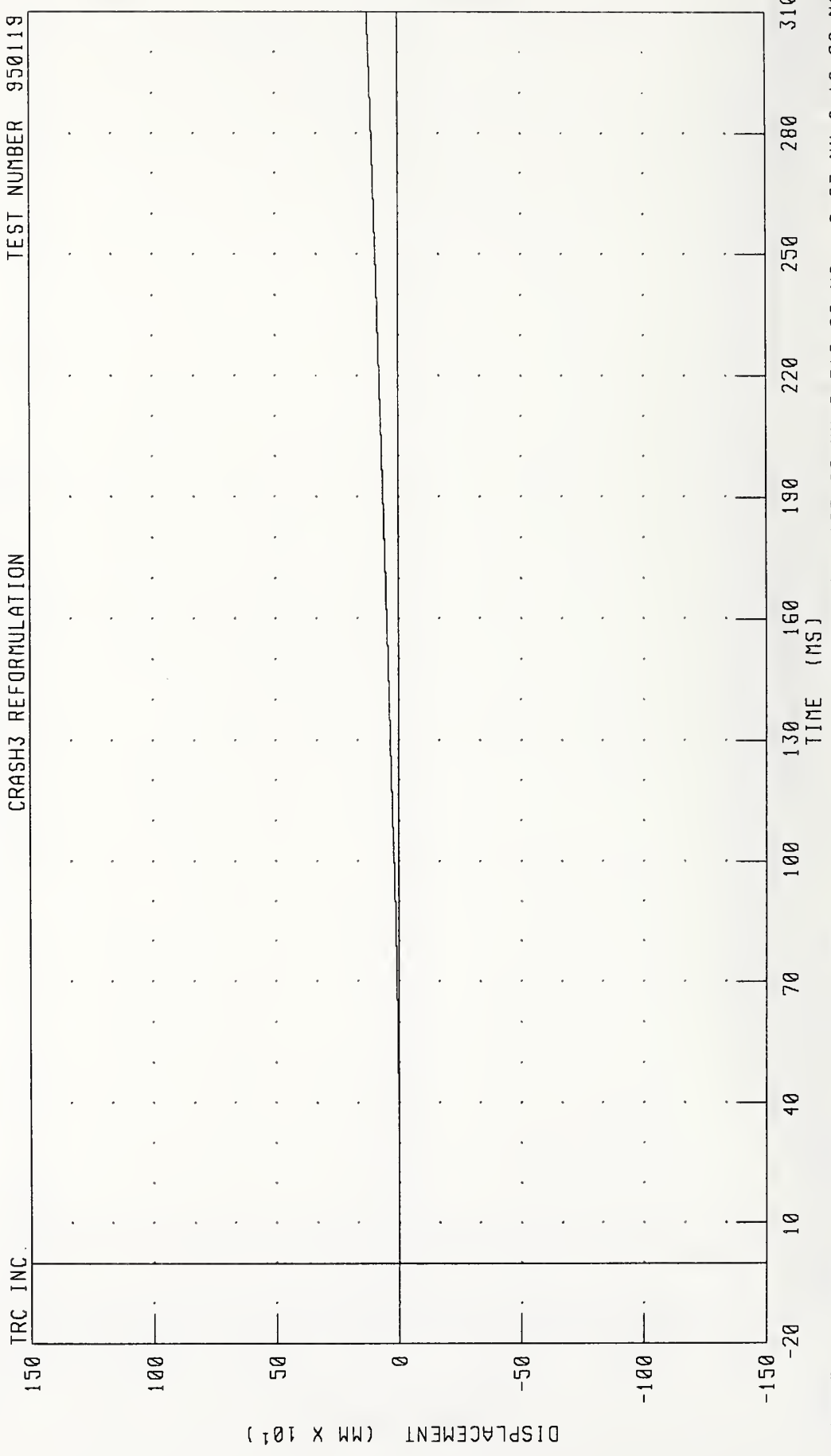
PEAK DATA

1.97 KM/H @ 290 32 MS, -0.04 KM/H @ 13 12 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 1 OF 5
 RIGHT REAR SEAT Y-AXIS DISPLACEMENT

TEST NUMBER 950119

CRASH3 REFORMULATION



CHANNEL: TRRYD1 FILTER: CH CLASS 180

PEAK DATA: 123.66 MM @ 310.00 MS, -0.03 MM @ 16.88 MS

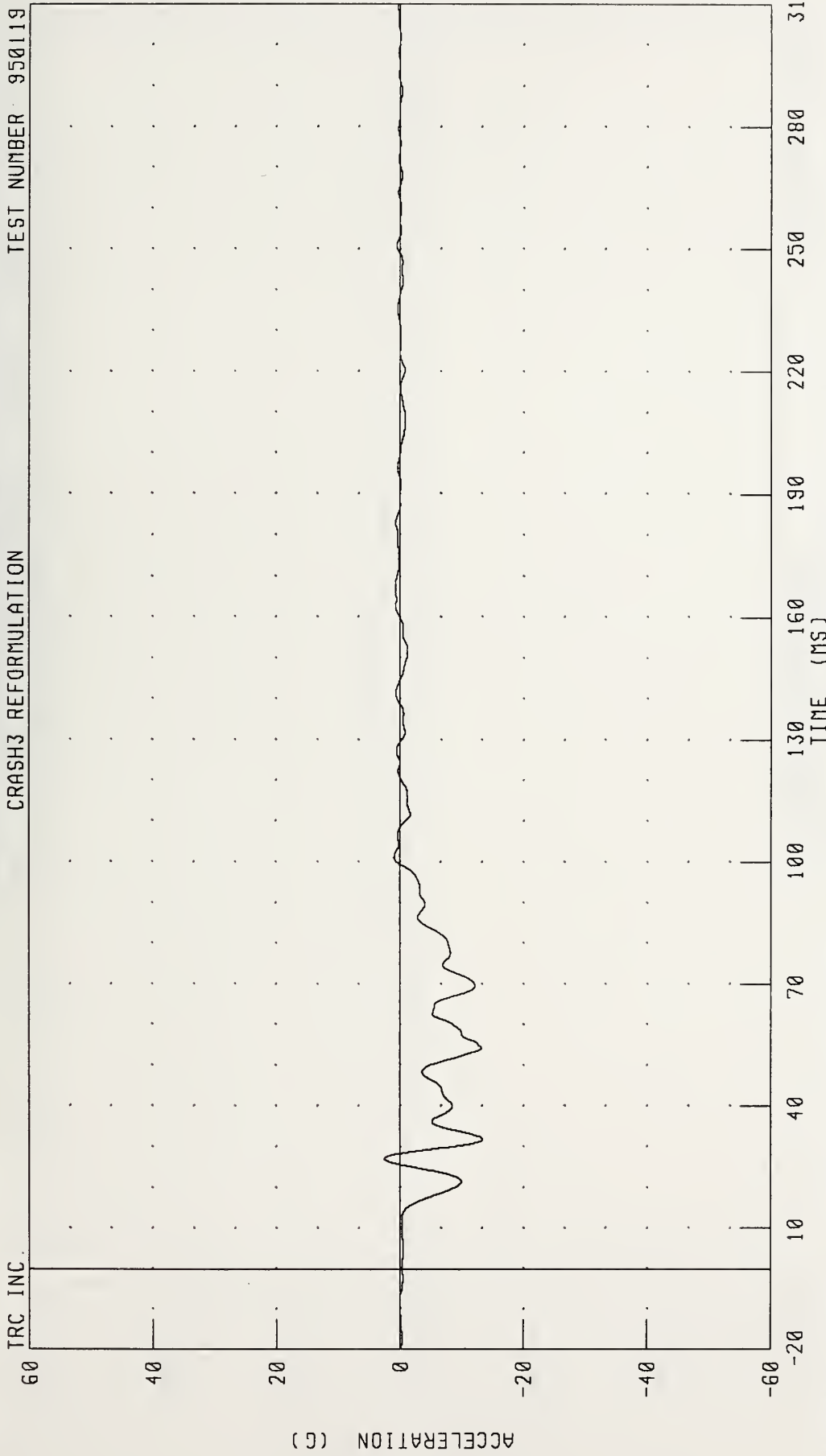
Data Plots

Test No. 950119-2



1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
VEHICLE CG X-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119



TRC INC.

CHANNEL: VCGXG1 FILTER: CH CLASS 60

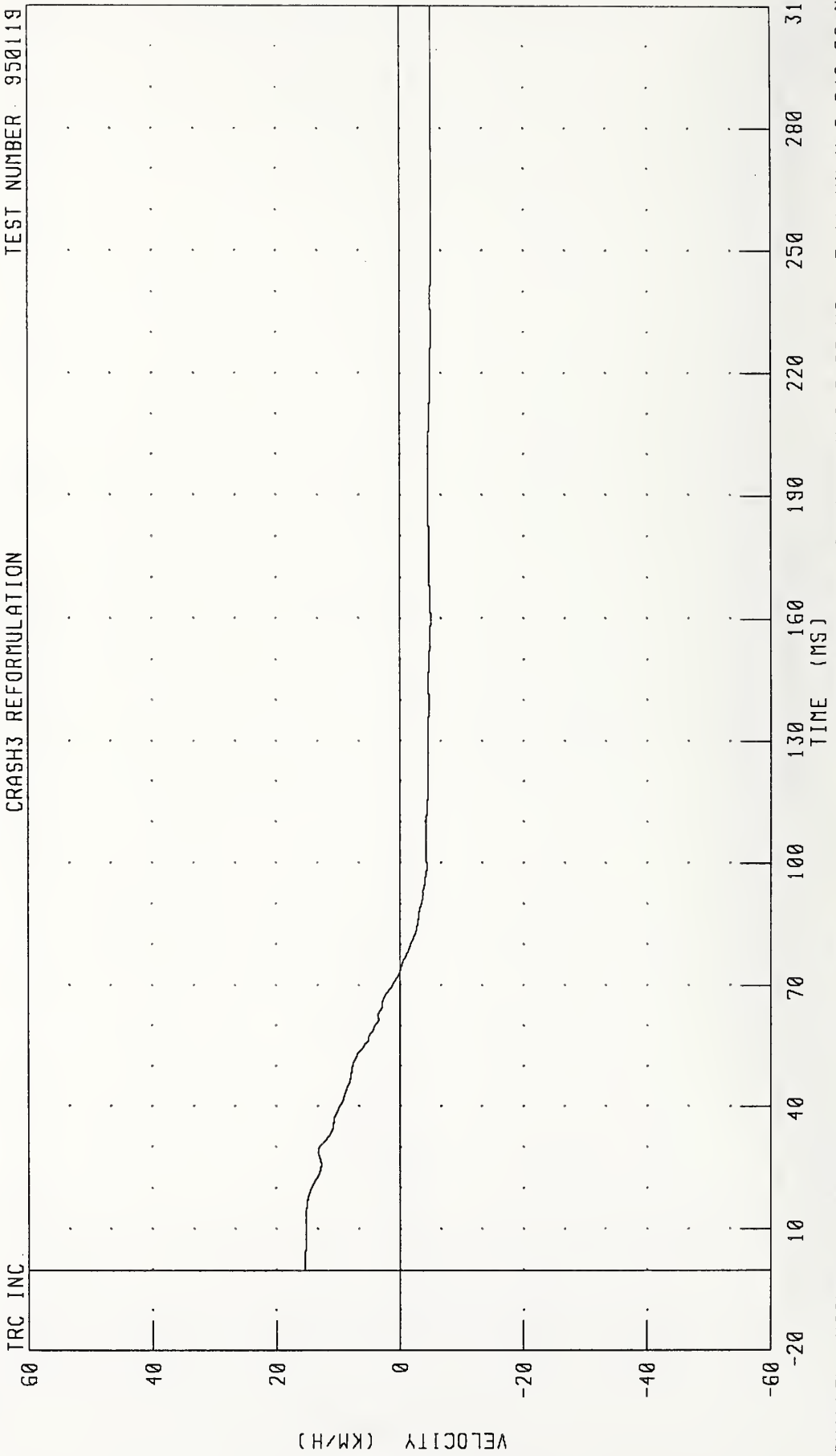
PEAK DATA: 2.56 G @ 27 12 MS; -13 41 G @ 31 92 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5

VEHICLE CG X-AXIS VELOCITY

CRASH3 REFORMULATION

TEST NUMBER 950119

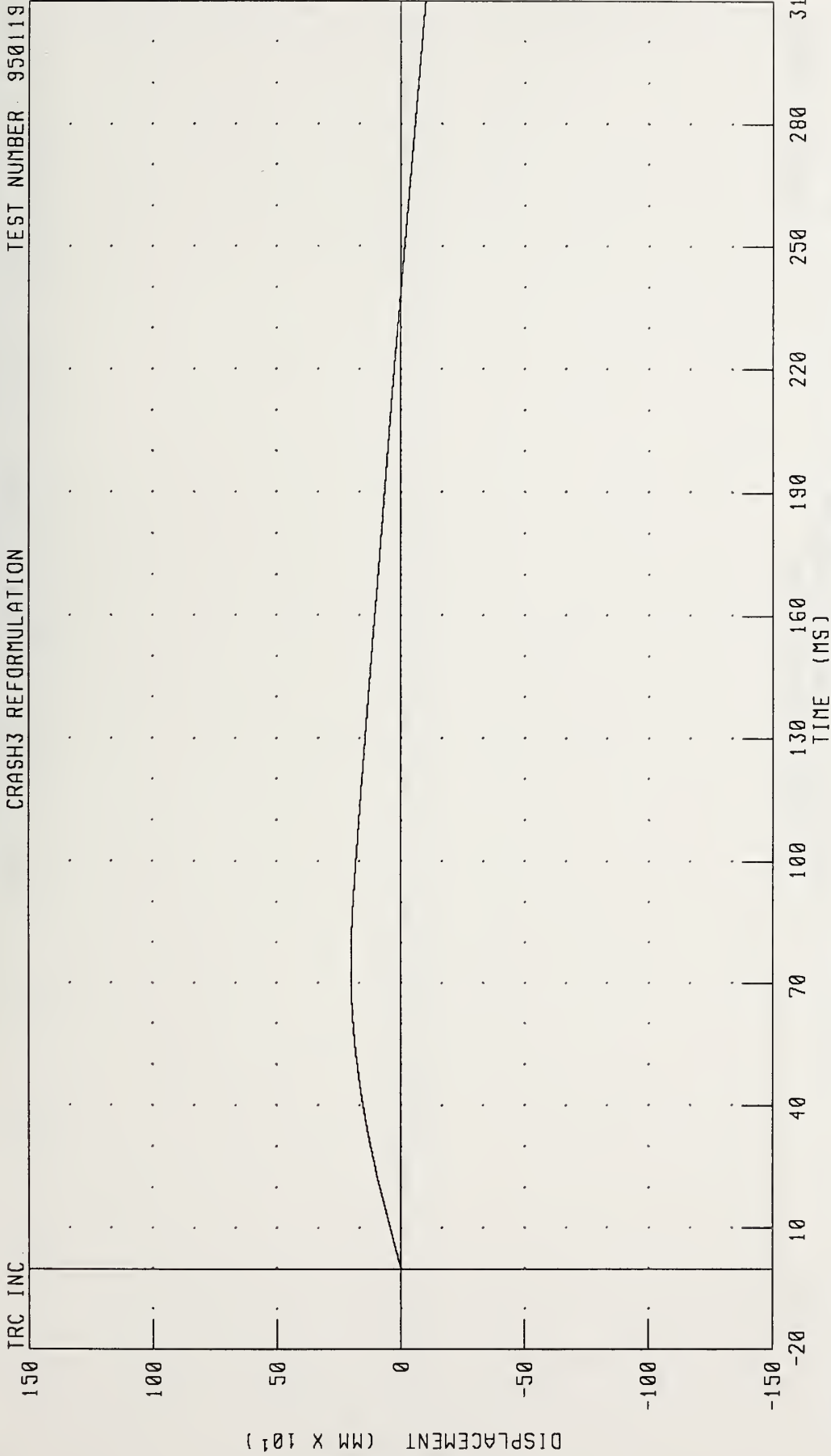


CHANNEL: VCCXV1 FILTER: CH CLASS 180

PEAK DATA: 15.40 KM/H @ 0.00 MS; -5.11 KM/H @ 249.28 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
VEHICLE CG X-AXIS DISPLACEMENT

TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119

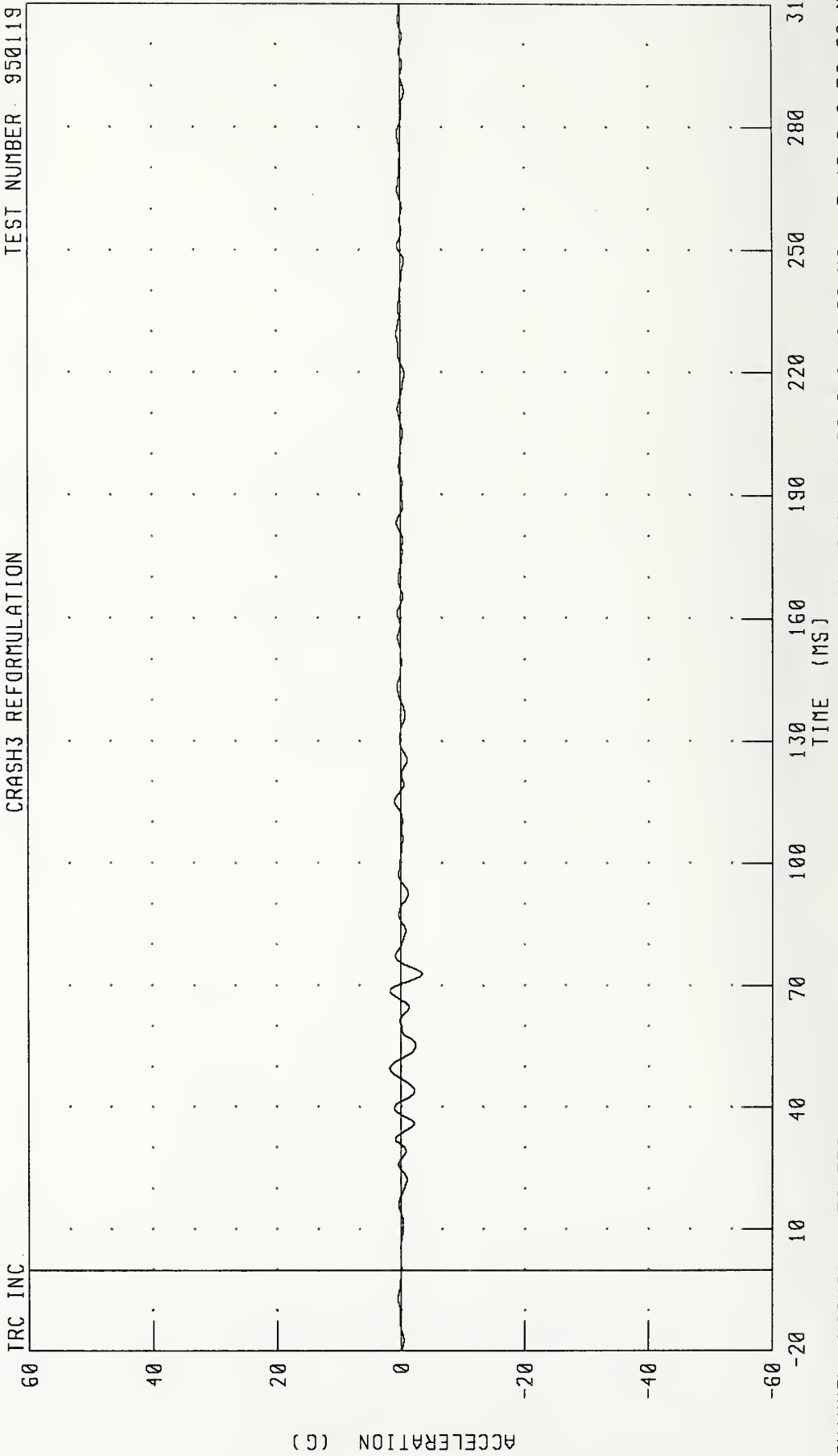


CHANNEL: VCGXD1 FILTER: CH CLASS 180

PEAK DATA: 200.90 MM @ 73.44 MS; -99.79 MM @ 310.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
VEHICLE CG Y-AXIS ACCELERATION

CRASH3 REFORMULATION
TEST NUMBER 950119



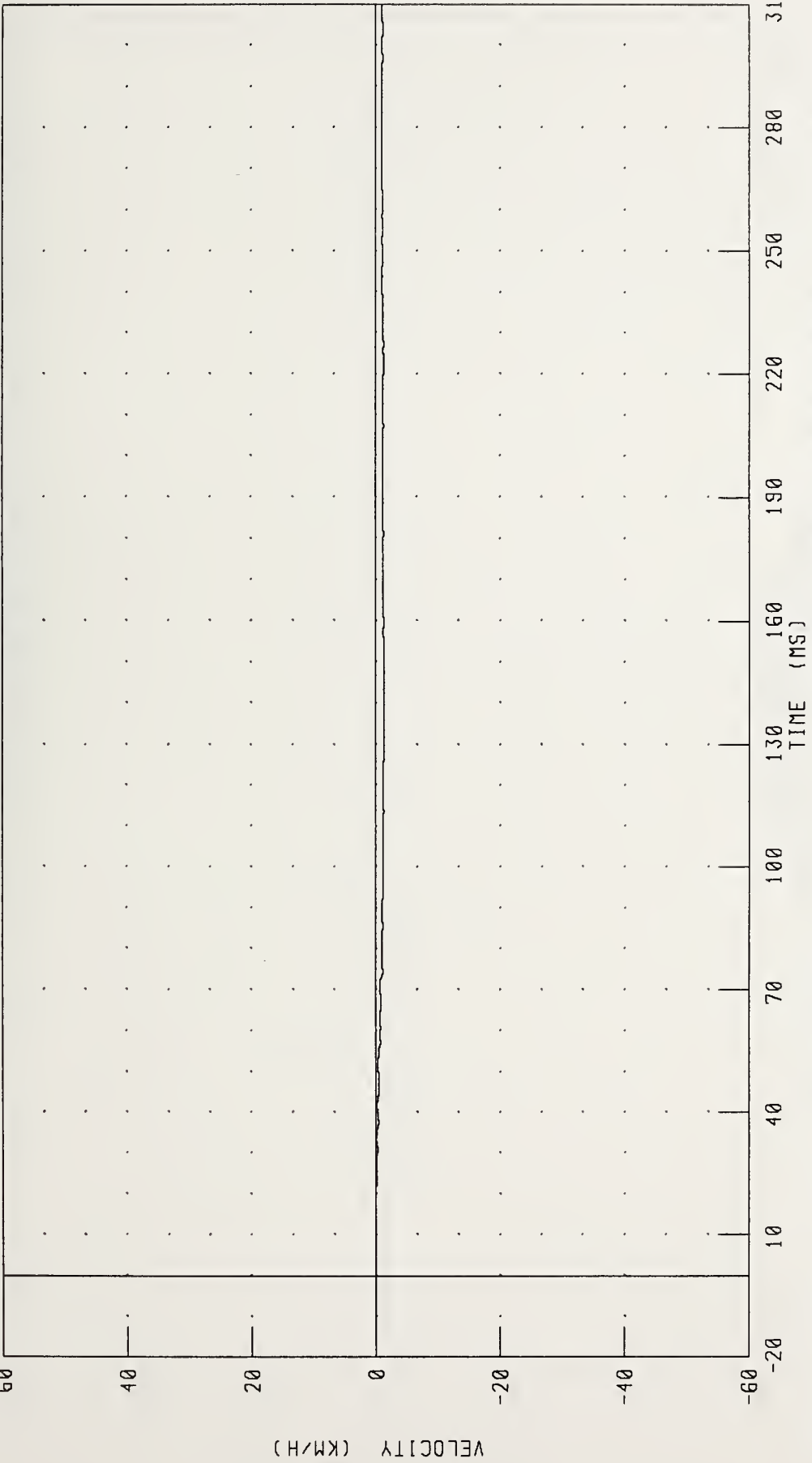
CHANNEL: VCGYG1 FILTER: CH. CLASS 60

PEAK DATA: 1.80 G @ 49.60 MS; -3.49 G @ 72.88 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
VEHICLE CG Y-AXIS VELOCITY
CRASH3 REFORMULATION

TEST NUMBER 950119

TRC INC



CHANNEL VCGYV1 FILTER CH CLASS 180

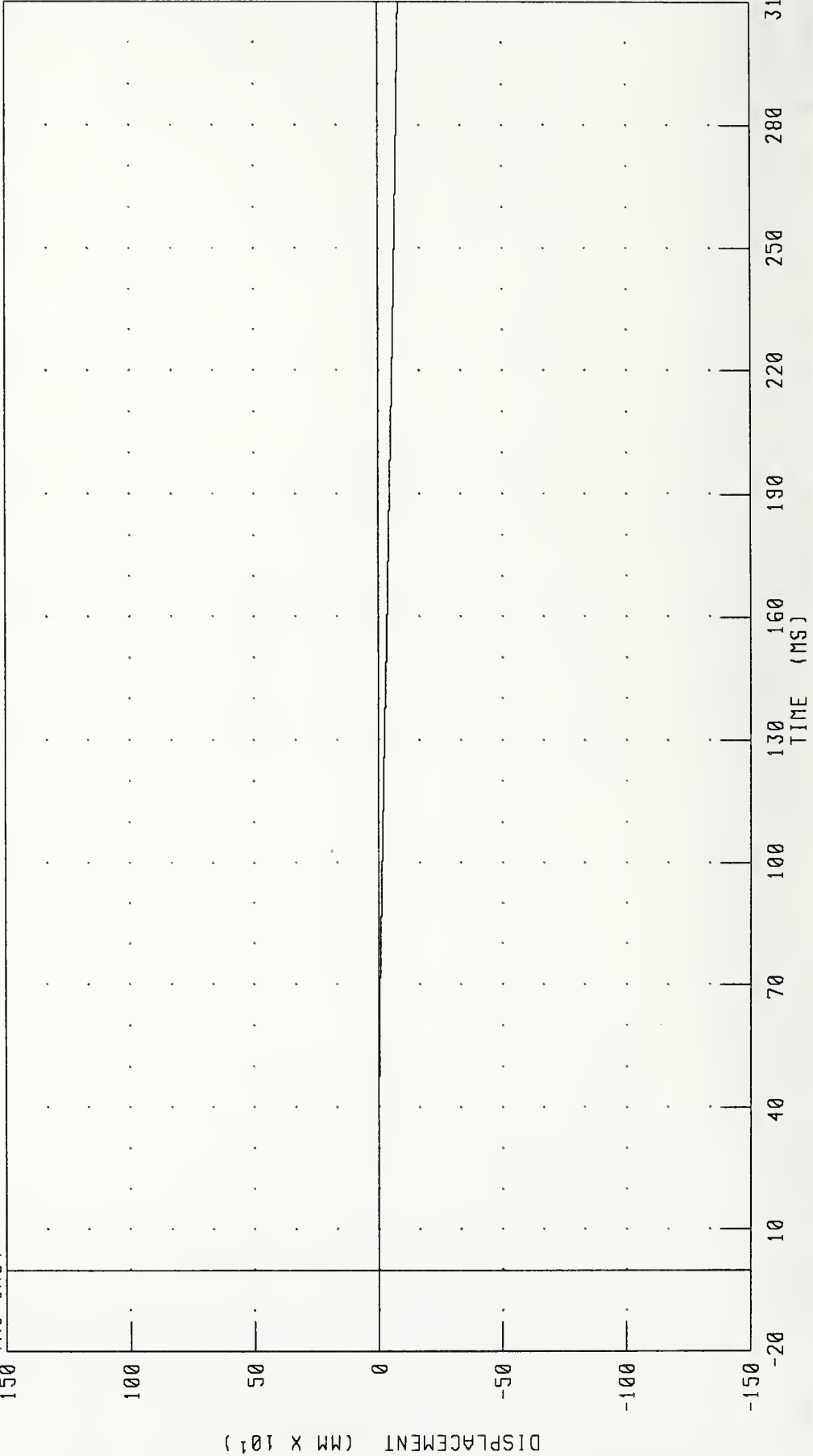
PEAK DATA 0.01 KM/H @ 7.60 MS; -1 40 KM/H @ 139.76 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
 VEHICLE CG Y-AXIS DISPLACEMENT

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC.



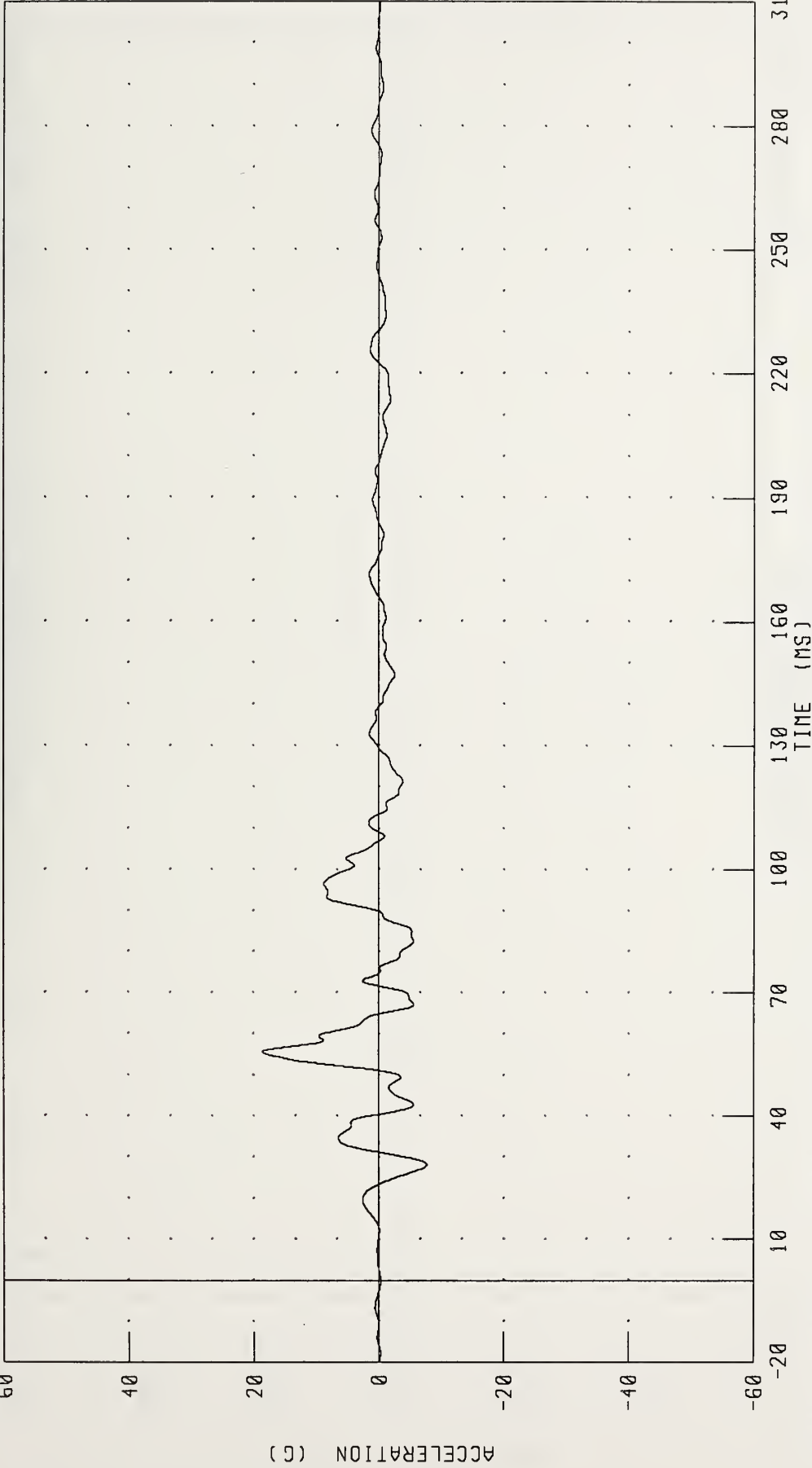
CHANNEL: VCGYD1 FILTER: CH CLASS 180

PEAK DATA: 0.00 MM @ 0.00 MS, -83.14 MM @ 310.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
VEHICLE CG Z-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC.



CHANNEL: VCGZG1 FILTER: CH. CLASS 60

TIME (MS)

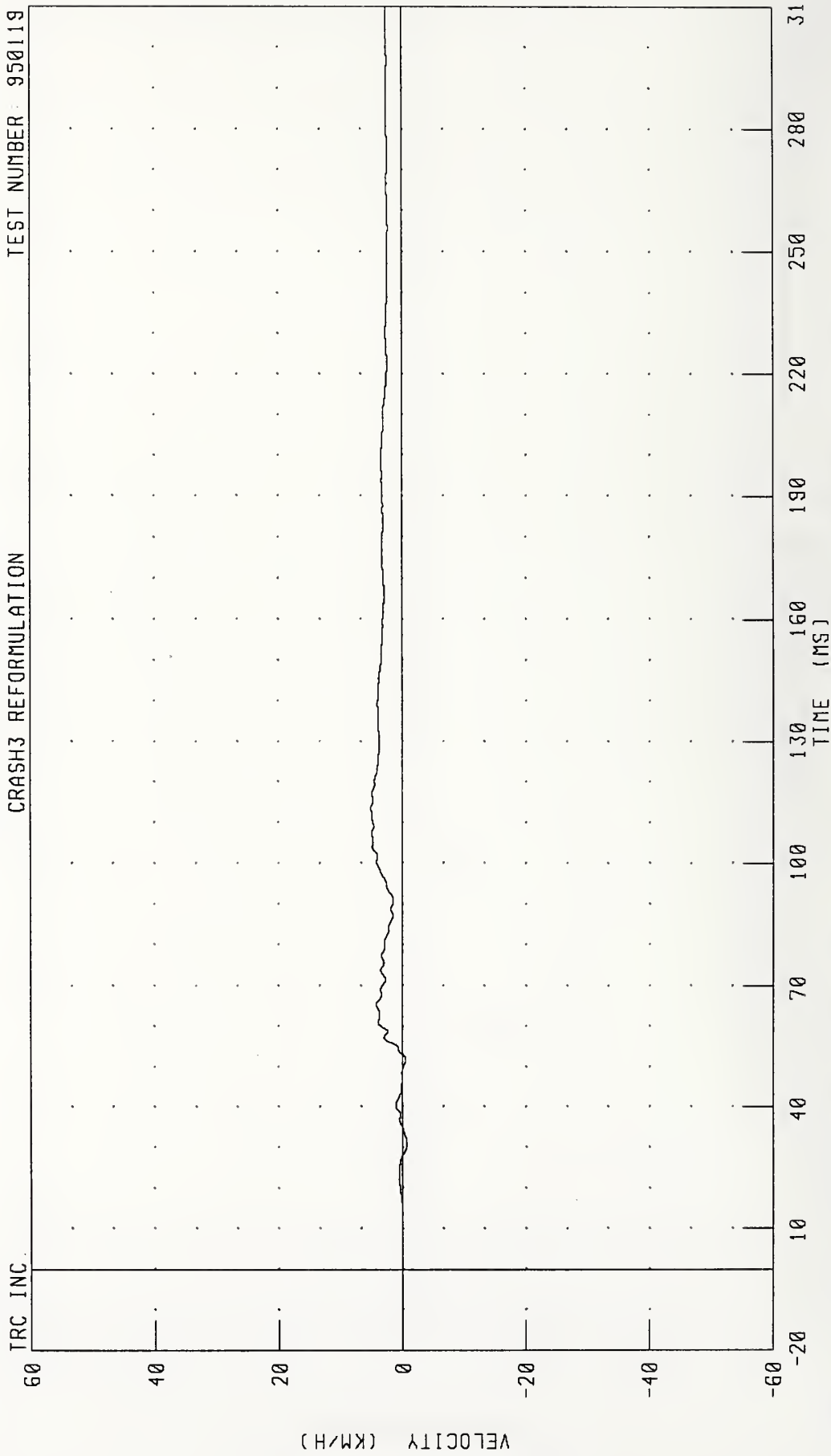
PEAK DATA: 18.69 G @ 55.60 MS; -7.74 G @ 281.6 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5

VEHICLE CG Z-AXIS VELOCITY

CRASH3 REFORMULATION

TEST NUMBER: 950119



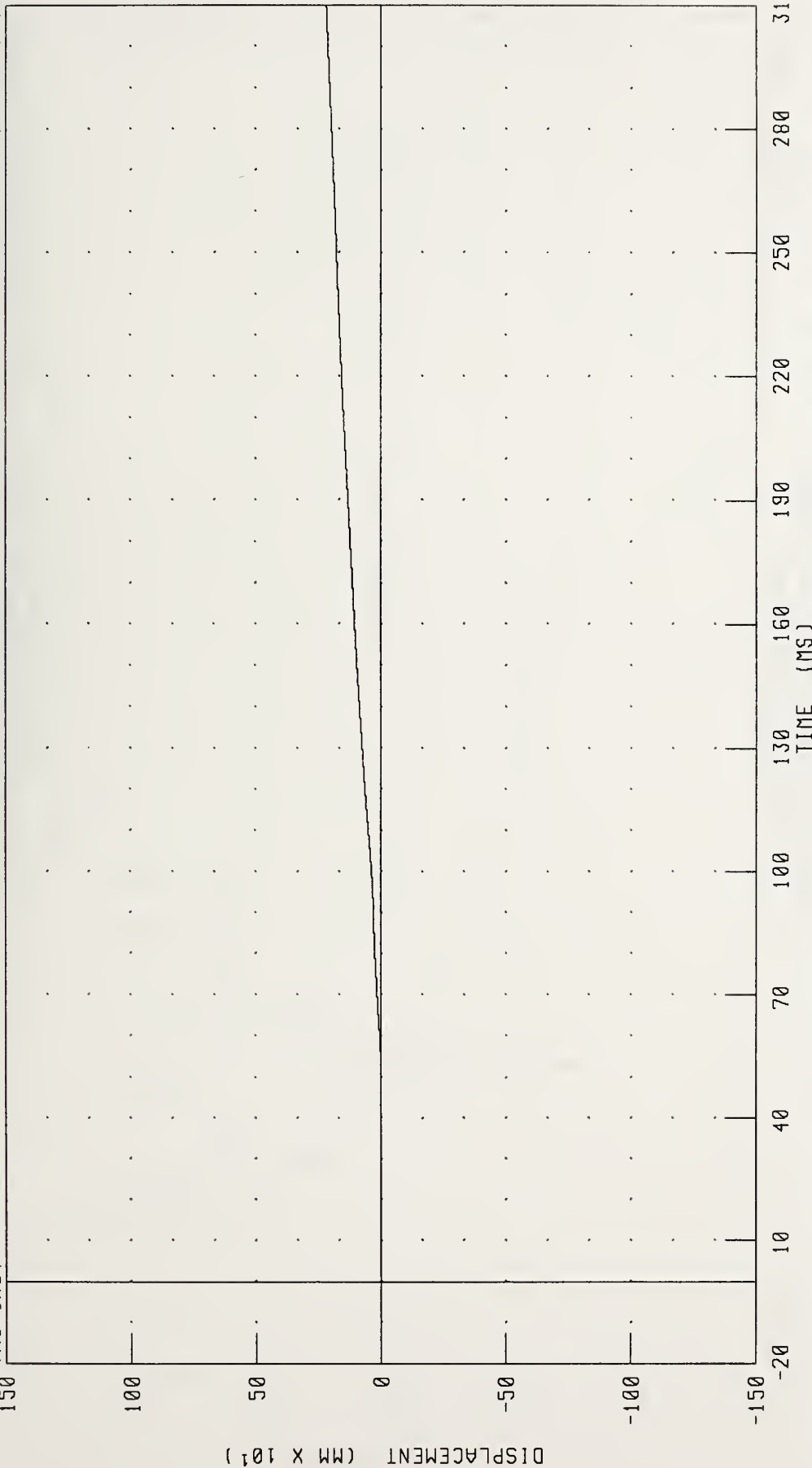
CHANNEL: VCGZV1 FILTER: CH. CLASS 180

PEAK DATA: 5.09 KM/H @ 113.60 MS; -0.72 KM/H @ 31.44 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
VEHICLE CG Z-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC.

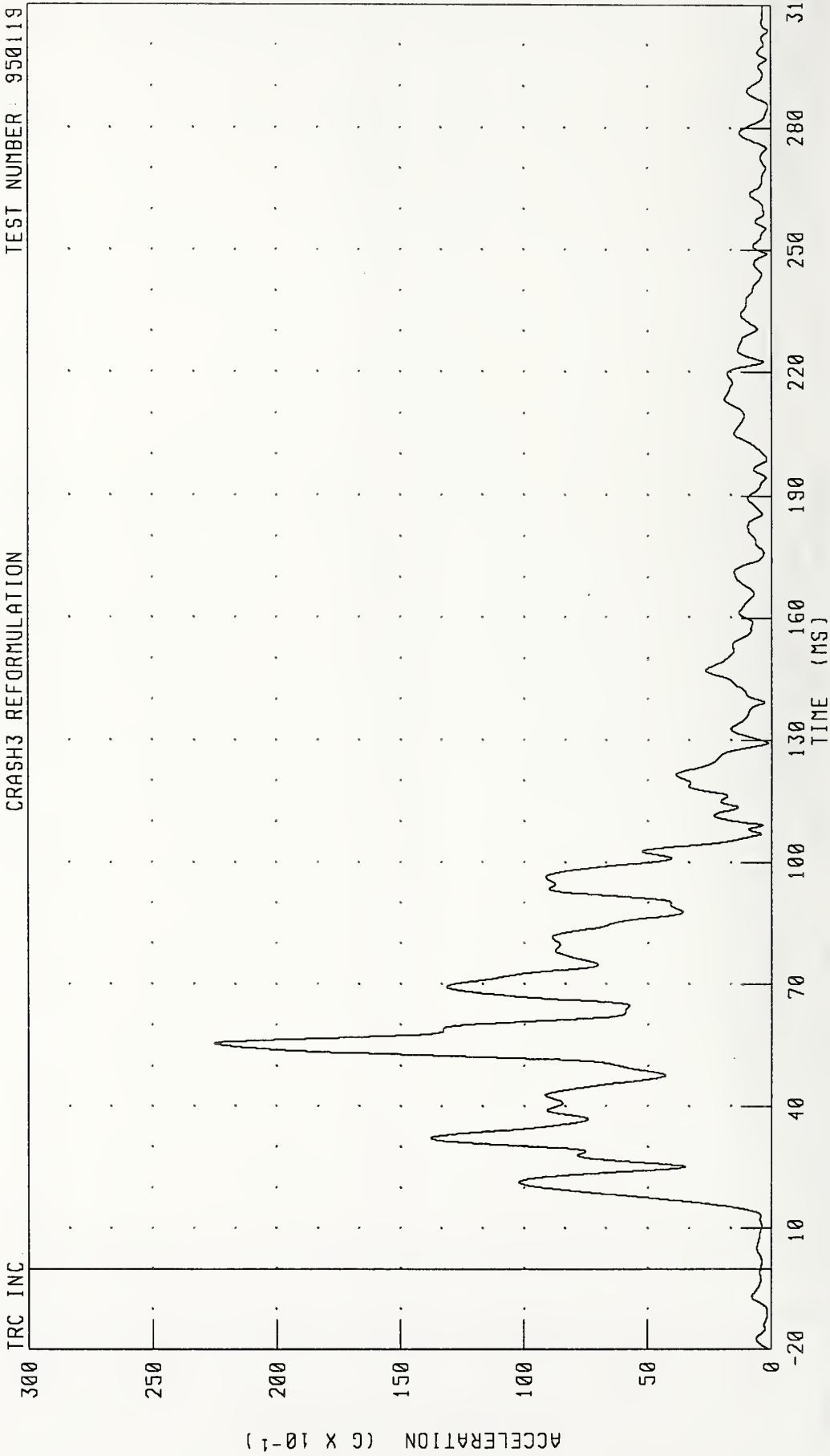


CHANNEL VCGZD1 FILTER: CH. CLASS 180

PEAK DATA: 218.68 MM @ 310.00 MS, -0.02 MM @ 6.72 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
VEHICLE CG RESULTANT ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119

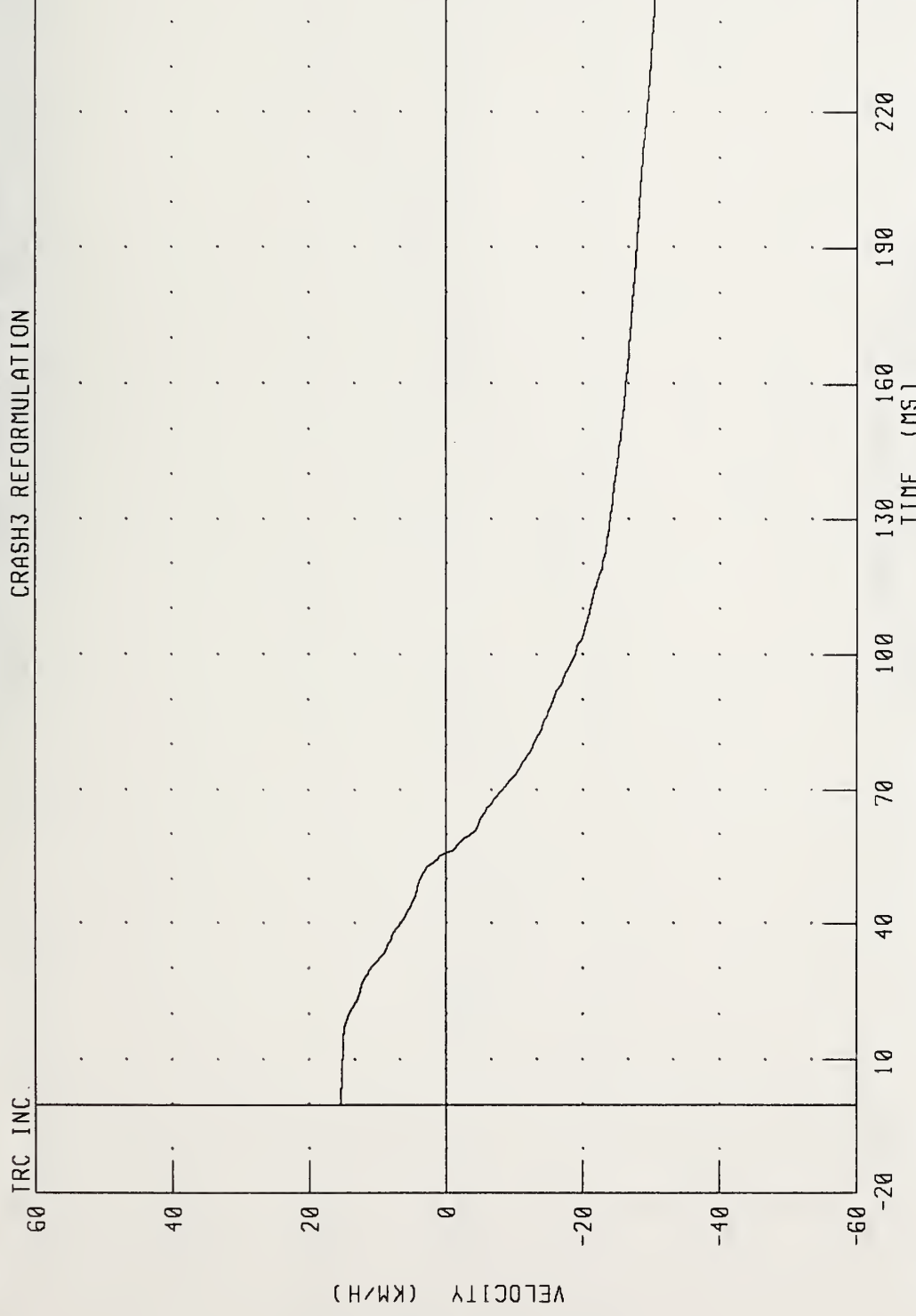


CHANNEL: VCGRG1 FILTER: CH CLASS 60

PEAK DATA: 22.54 G @ 55.52 MS; 0 13 G @ 285.36 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
VEHICLE CG RESULTANT VELOCITY

TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119



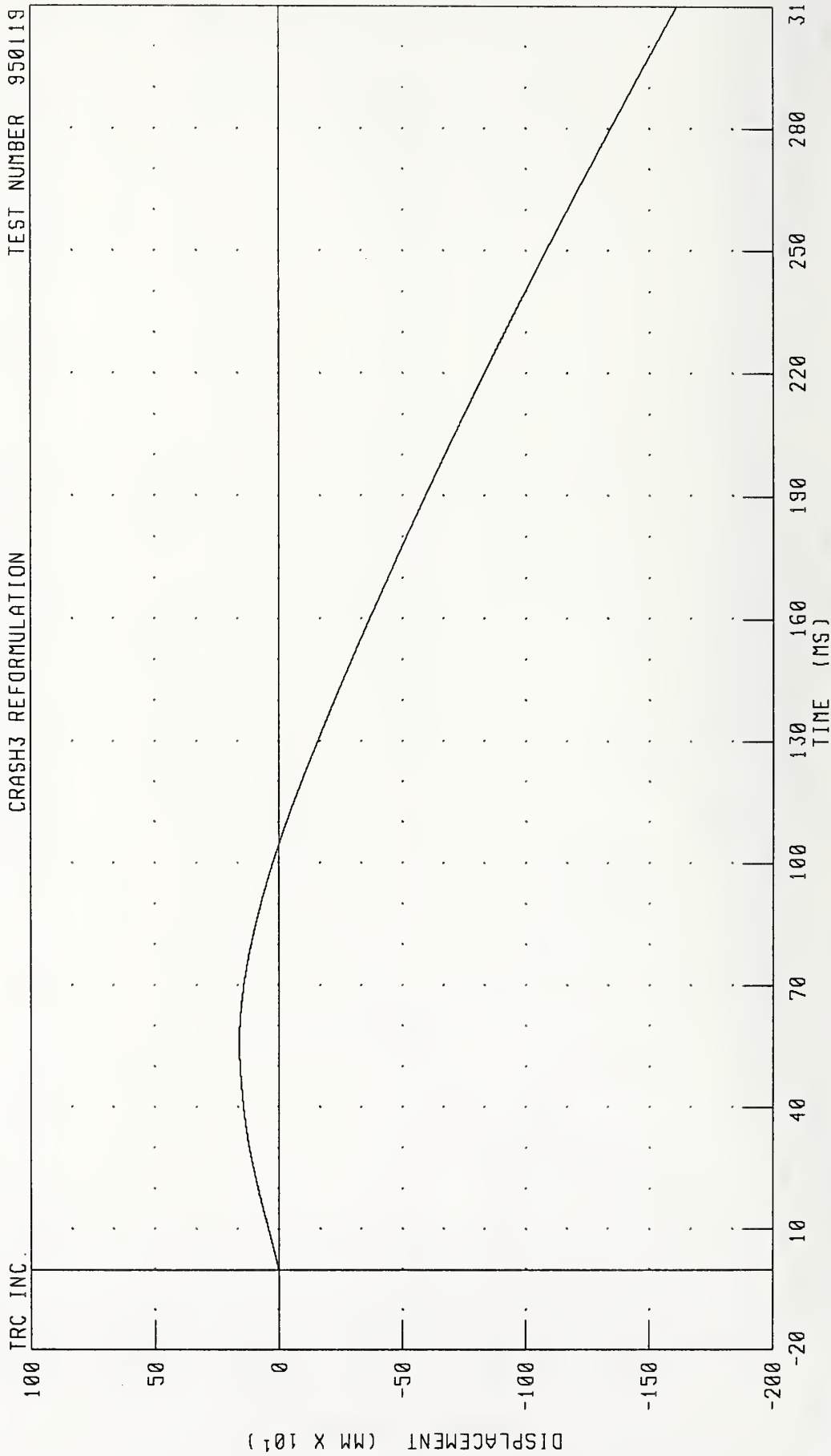
CHANNEL VCGRV1 FILTER CH CLASS 180 PEAK DATA 15.40 KM/H @ 0 00 MS, -32.68 KM/H @ 310 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5

VEHICLE CG RESULTANT DISPLACEMENT

CRASH3 REFORMULATION

TEST NUMBER 950119



CHANNEL: YCGRD1 FILTER: CH CLASS 180

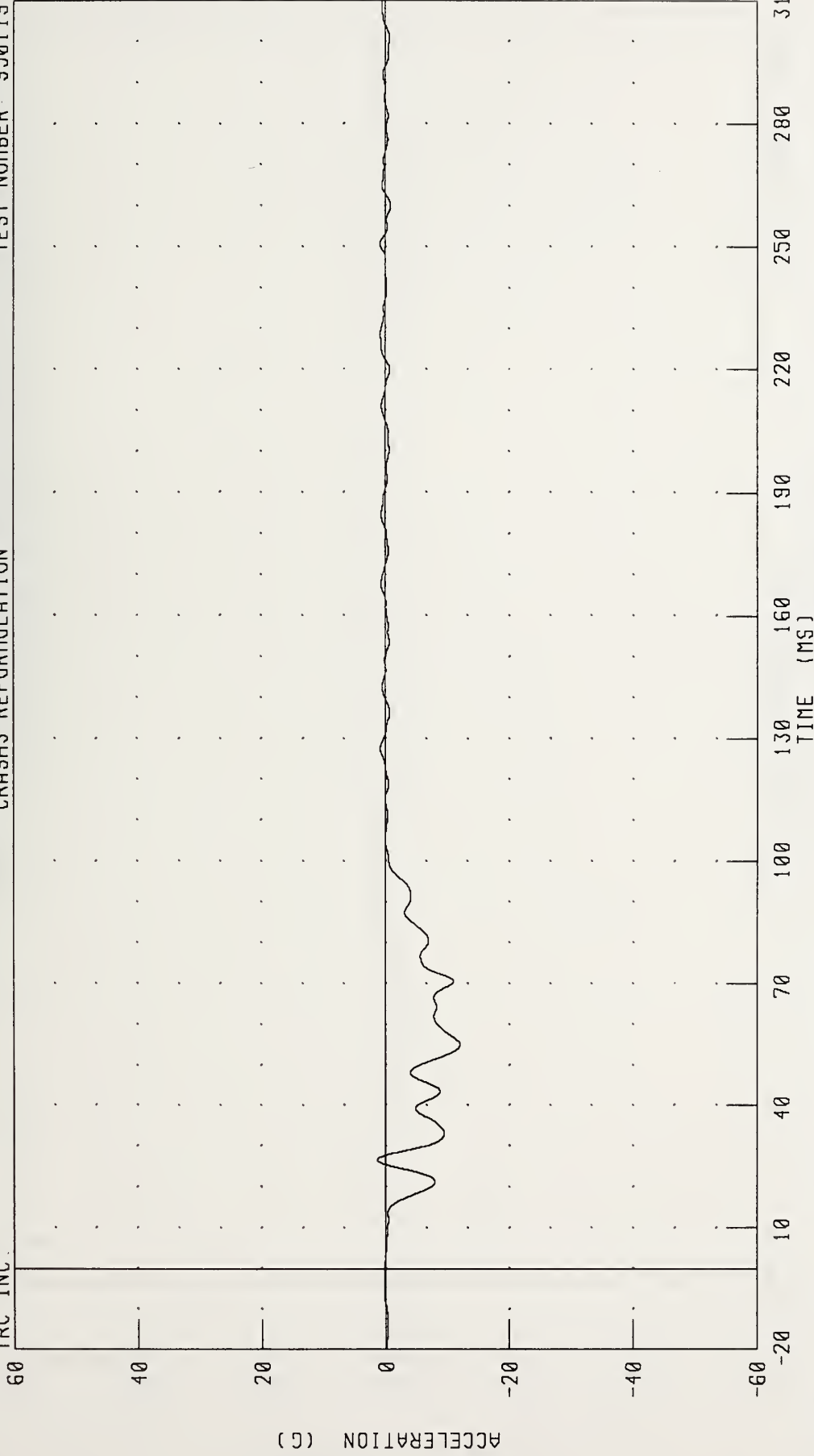
PEAK DATA 160 76 MM @ 55.84 MS; -161.11 49 MM @ 310 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
LEFT FRONT SILL X-AXIS ACCELERATION

TEST NUMBER 950119

CRASH3 REFORMULATION

TRC INC



CHANNEL: LFSXG1 FILTER: CH CLASS 60

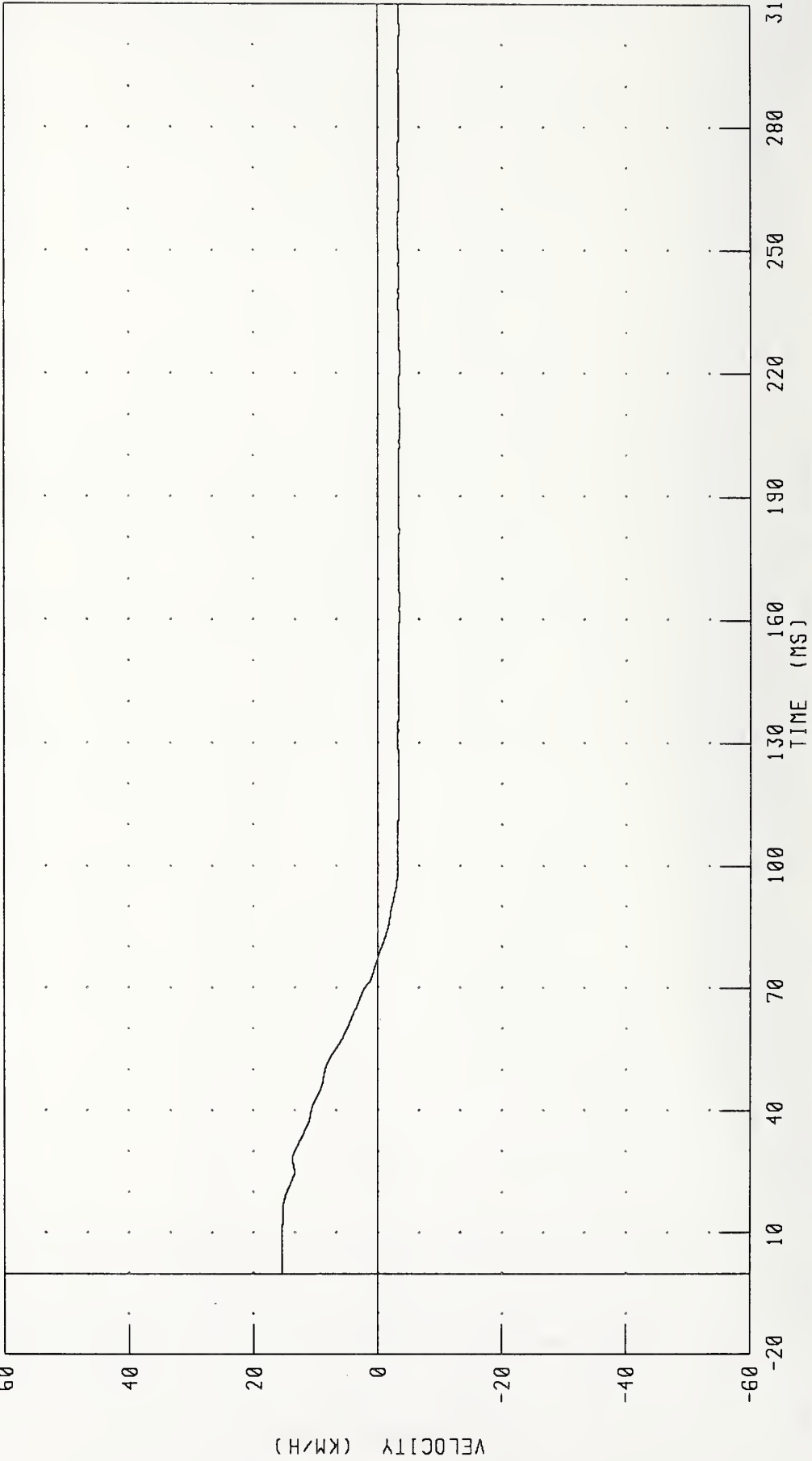
PEAK DATA: 1.37 G @ 26.56 MS, -12.09 G @ 54.96 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
LEFT FRONT SILL X-AXIS VELOCITY

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC.



CHANNEL: LFSXV1 FILTER: CH. CLASS 180

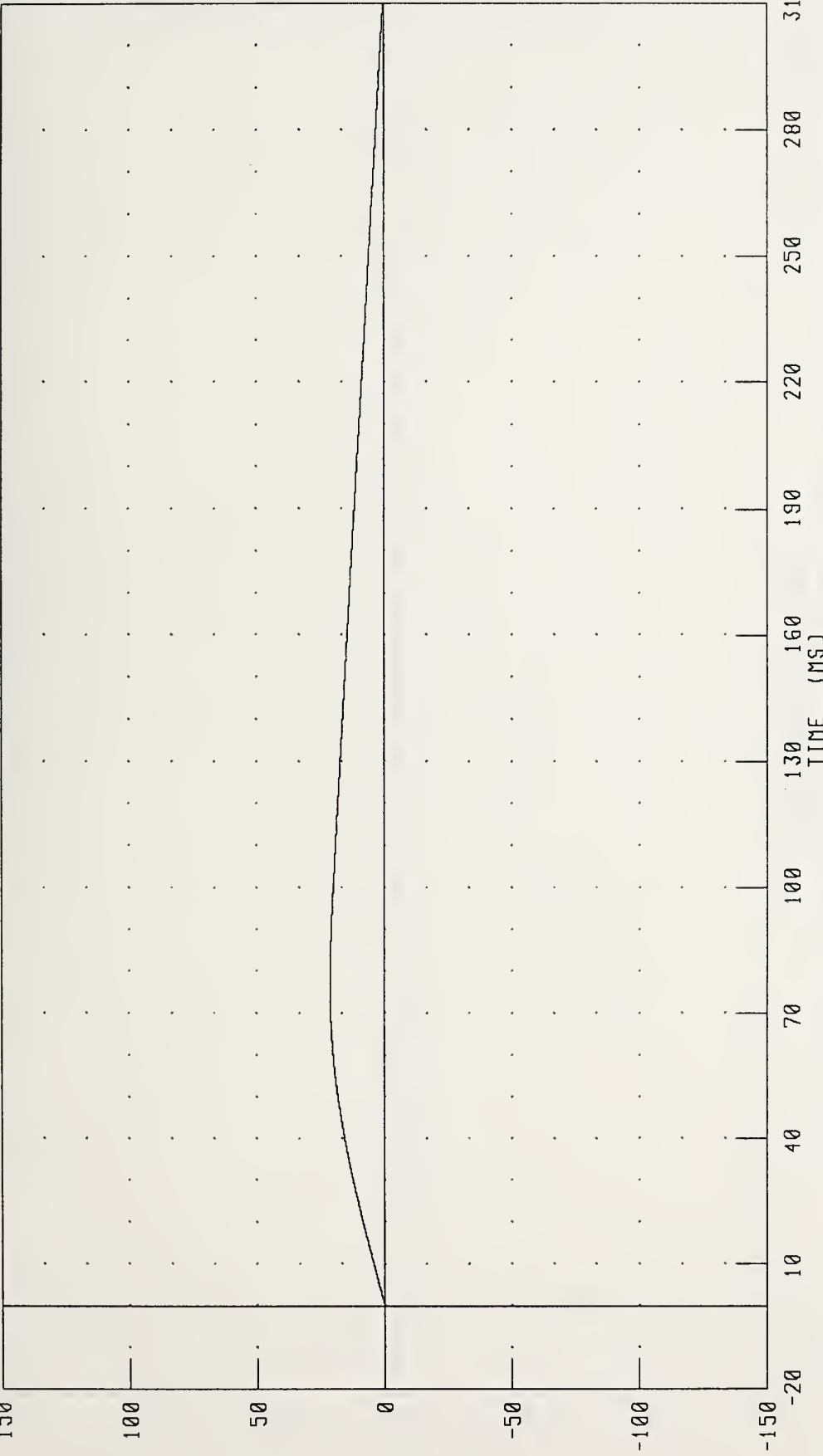
PEAK DATA: 15.42 KM/H @ 4.32 MS, -3.54 KM/H @ 221.84 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
 LEFT FRONT SILL X-AXIS DISPLACEMENT

TEST NUMBER 950119

CRASH3 REFORMULATION

TRC INC.



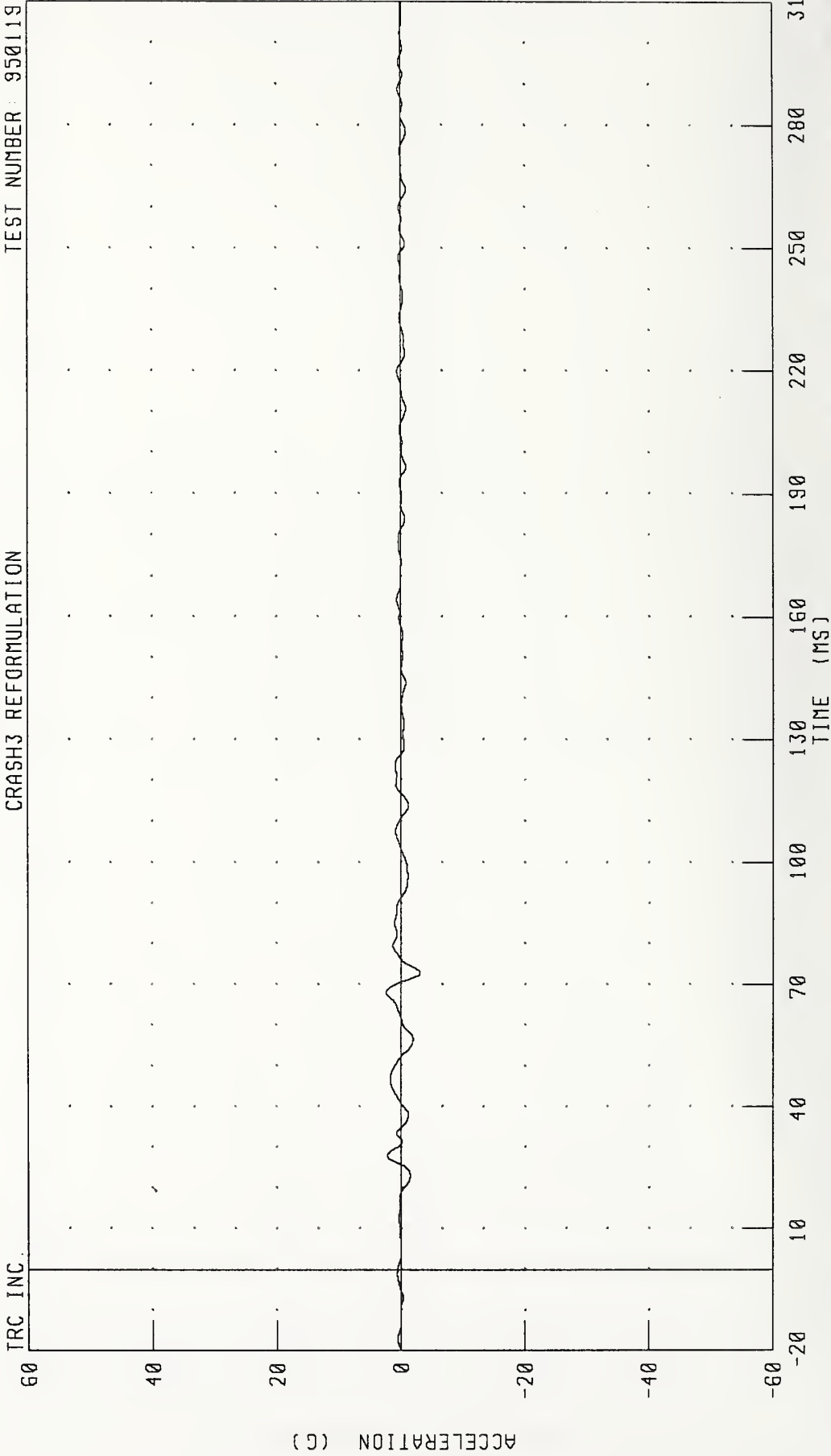
CHANNEL: LFSXD1 FILTER: CH CLASS 180

PEAK DATA: 212.74 MM @ 77.36 MS, 0 00 MM @ 0 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5

LEFT FRONT SILL Y-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER: 950119



CHANNEL: LFSYG1 FILTER: CH CLASS 60

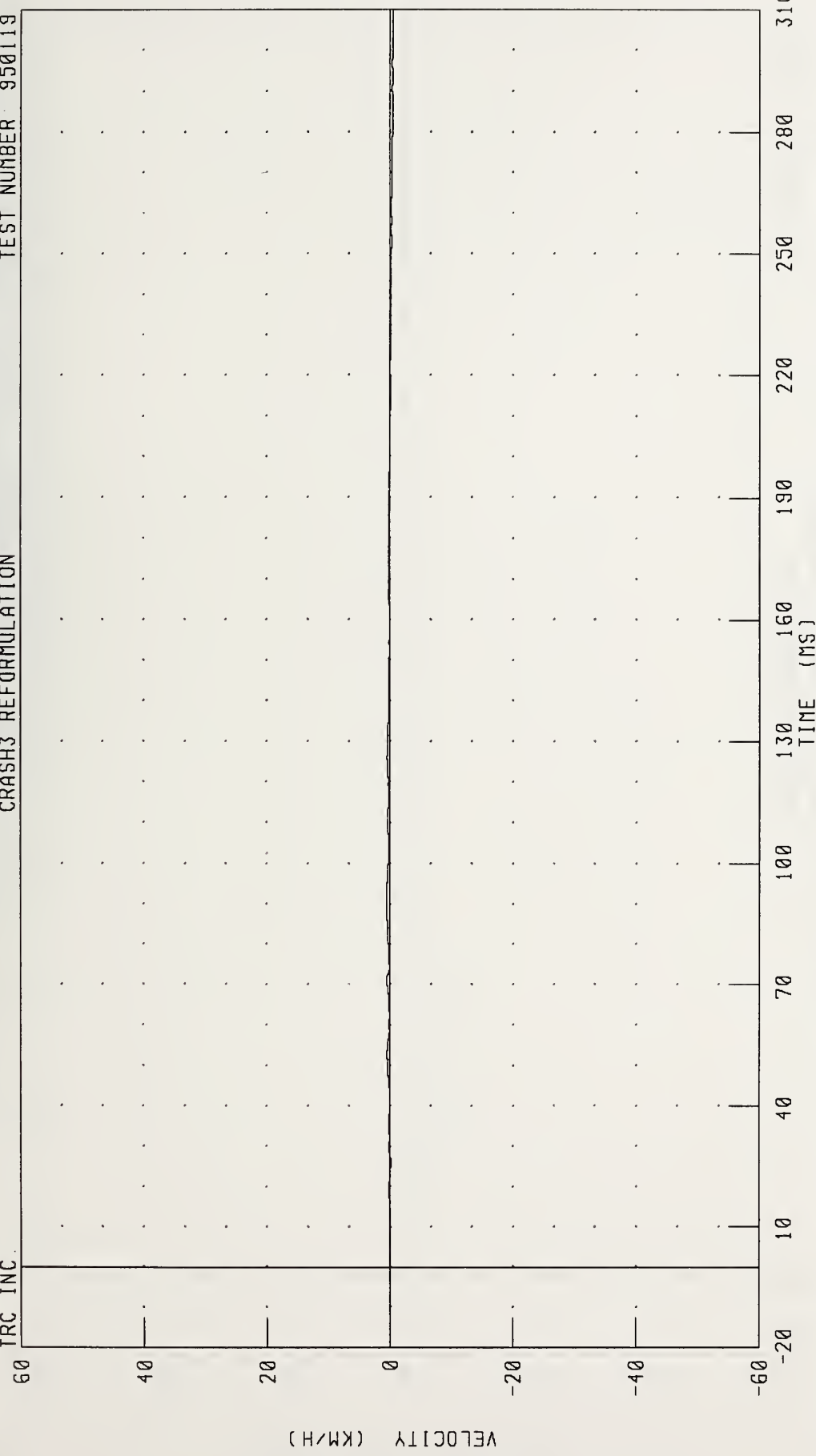
PEAK DATA: 2.39 G @ 68 00 MS, -3.12 G @ 72 80 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
 LEFT FRONT SILL Y-AXIS VELOCITY

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC.



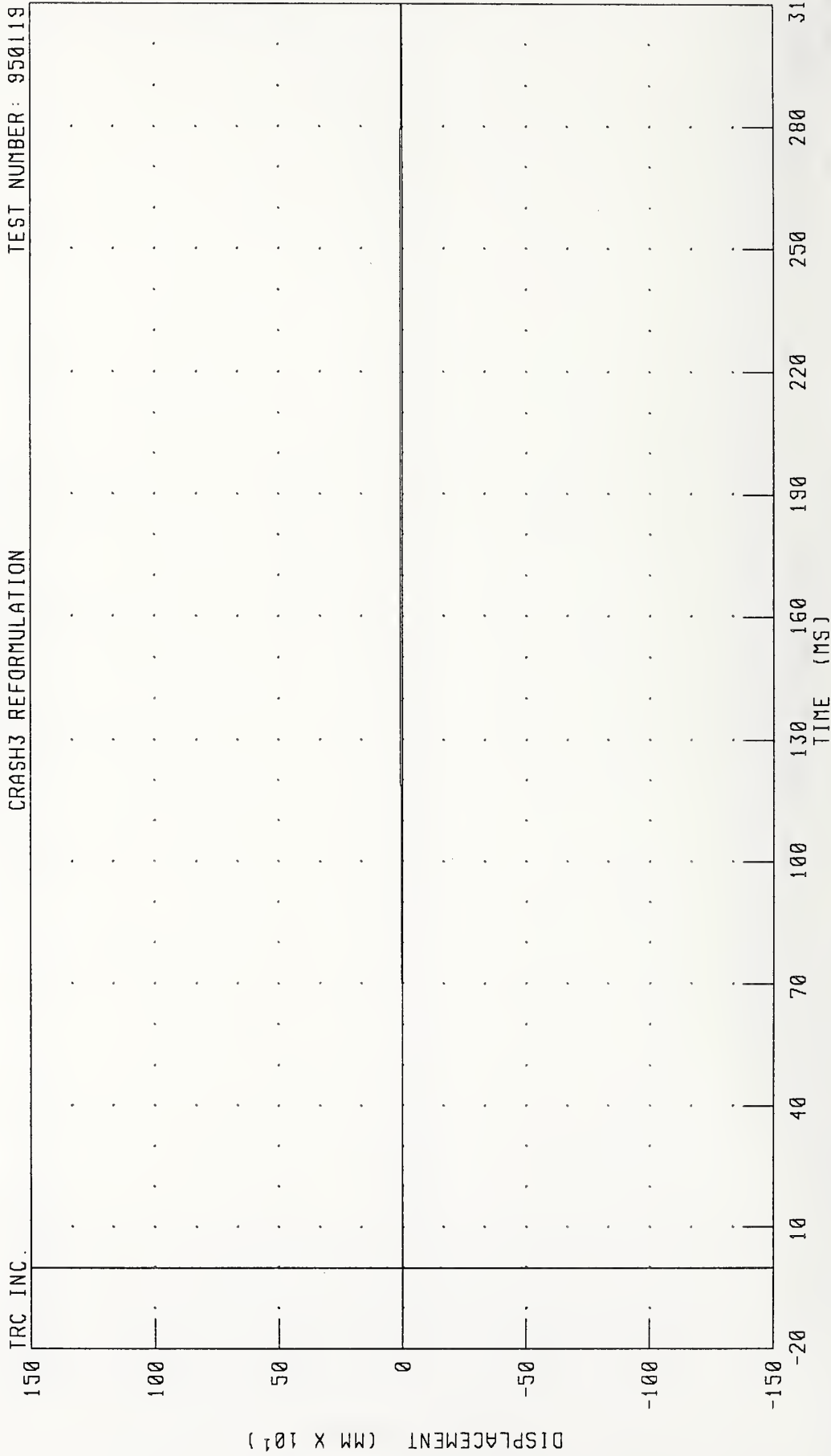
CHANNEL: LFSYV1 FILTER: CH. CLASS 180

PEAK DATA: 0 56 KM/H @ 71 20 MS, -0 50 KM/H @ 287 20 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
 LEFT FRONT SILL Y-AXIS DISPLACEMENT

TEST NUMBER: 950119

CRASH3 REFORMULATION



CHANNEL: LFSYD1 FILTER: CH CLASS 180

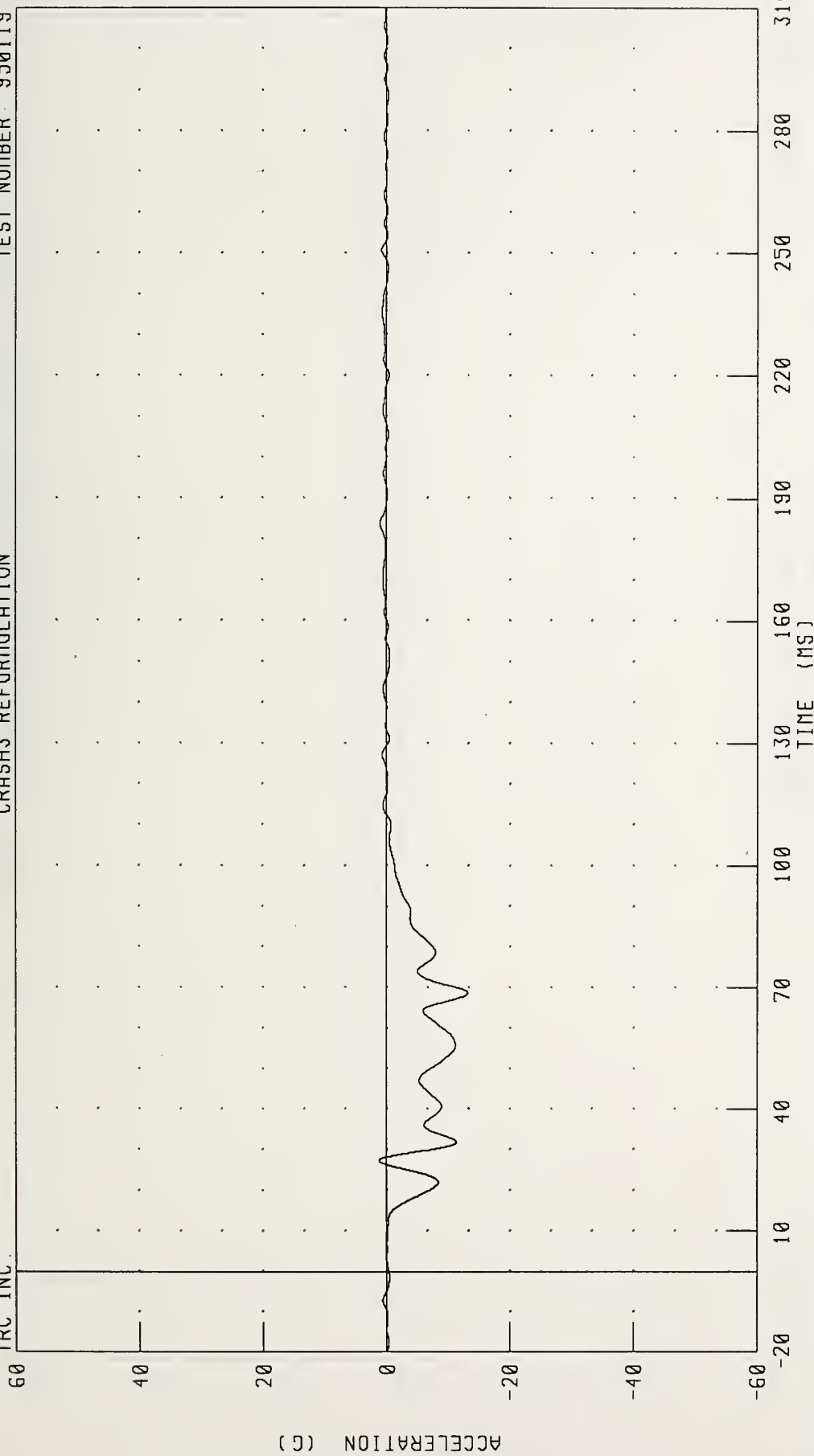
PEAK DATA: 10.56 MM @ 209.36 MS, 0.00 MM @ 0.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
RIGHT FRONT SILL X-AXIS ACCELERATION

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC.

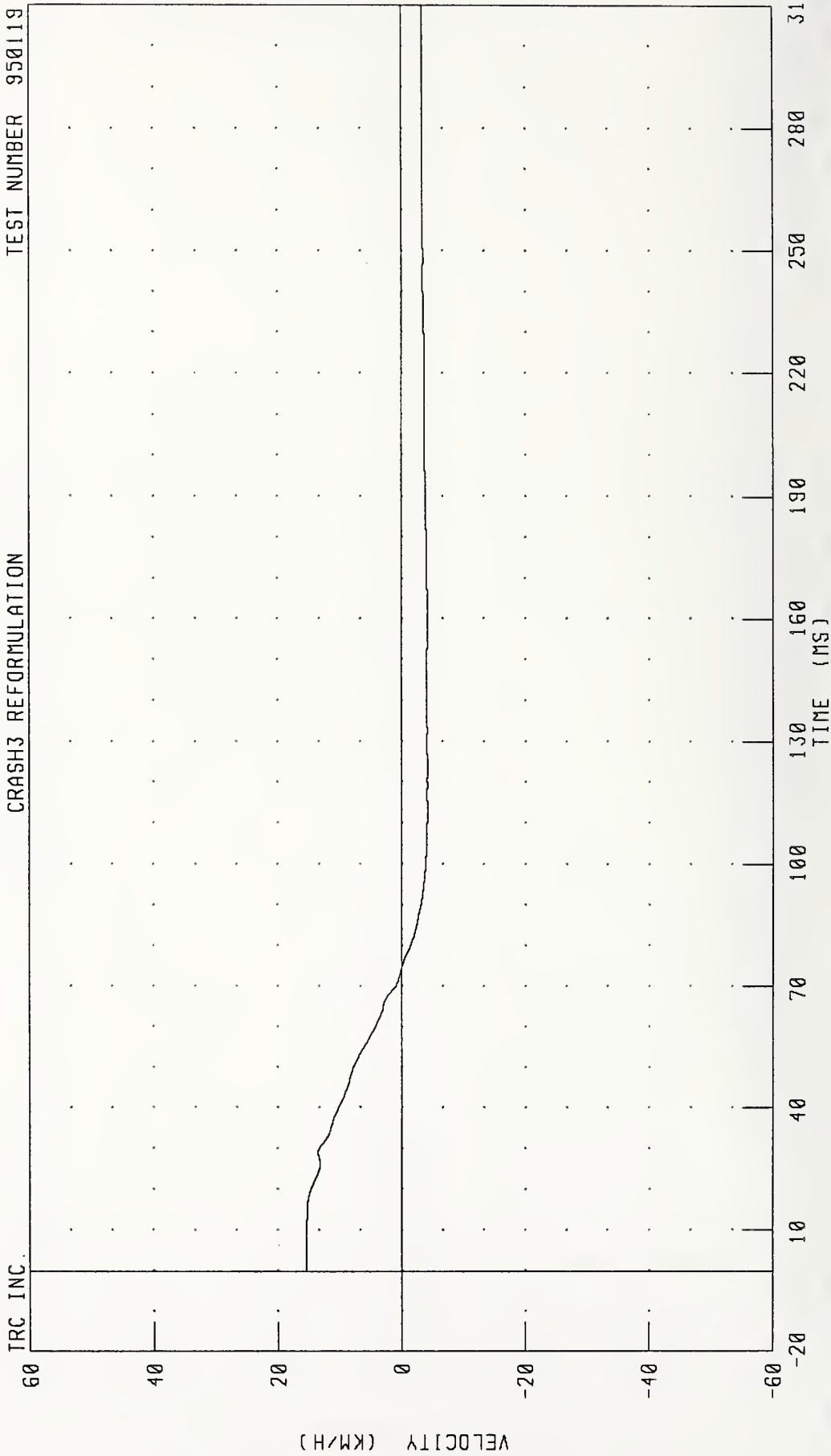


CHANNEL RFSXG1 FILTER: CH. CLASS 60

PEAK DATA: 1 19 G @ 27 28 MS; -13 13 G @ 68 72 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
RIGHT FRONT SILL X-AXIS VELOCITY

TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119



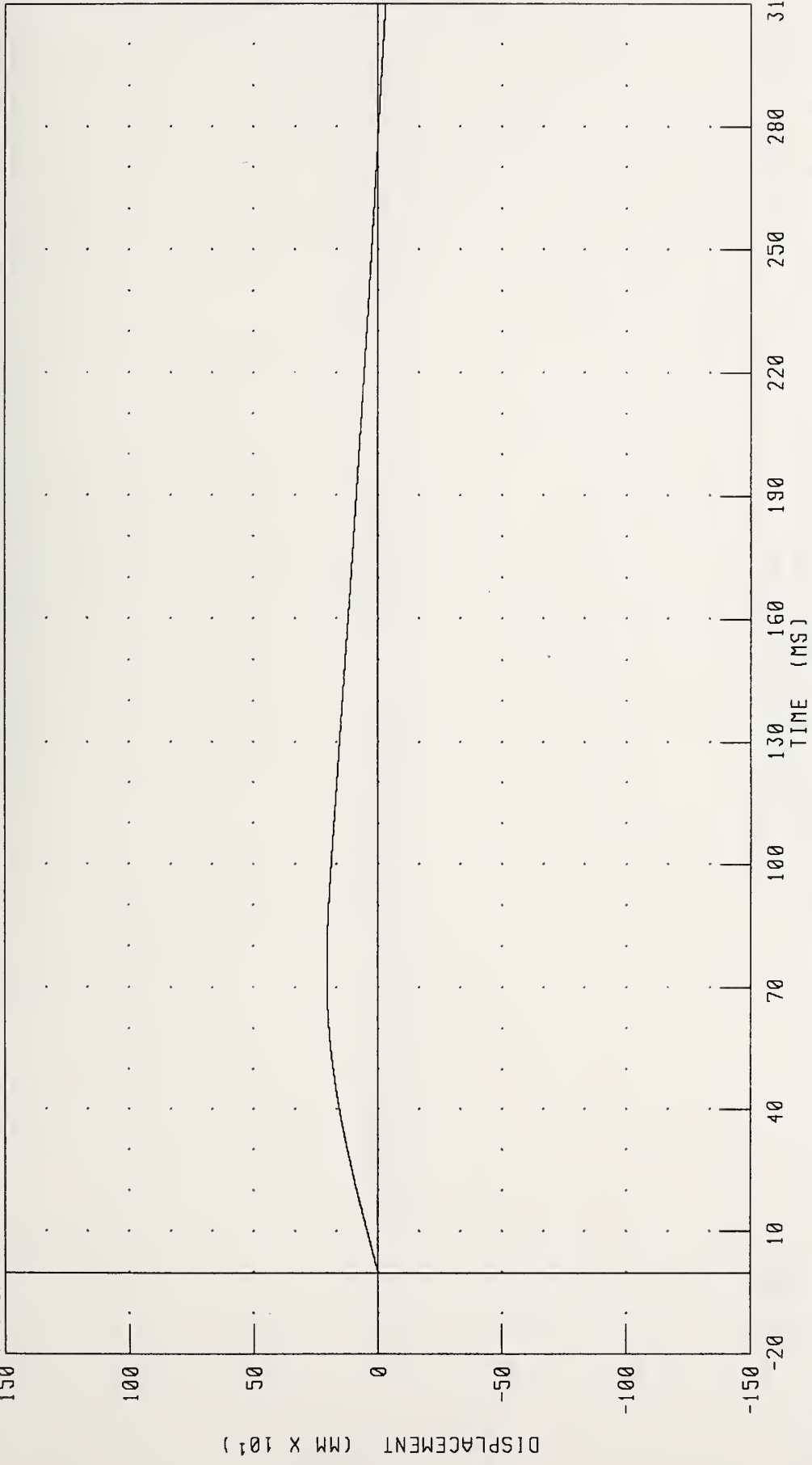
CHANNEL: RFSXV1 FILTER: CH CLASS 180

PEAK DATA: 15.40 KM/H @ 0.00 MS; -4.22 KM/H @ 112.24 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
RIGHT FRONT SILL X-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC.



CHANNEL RFSXD1 FILTER CH CLASS 180

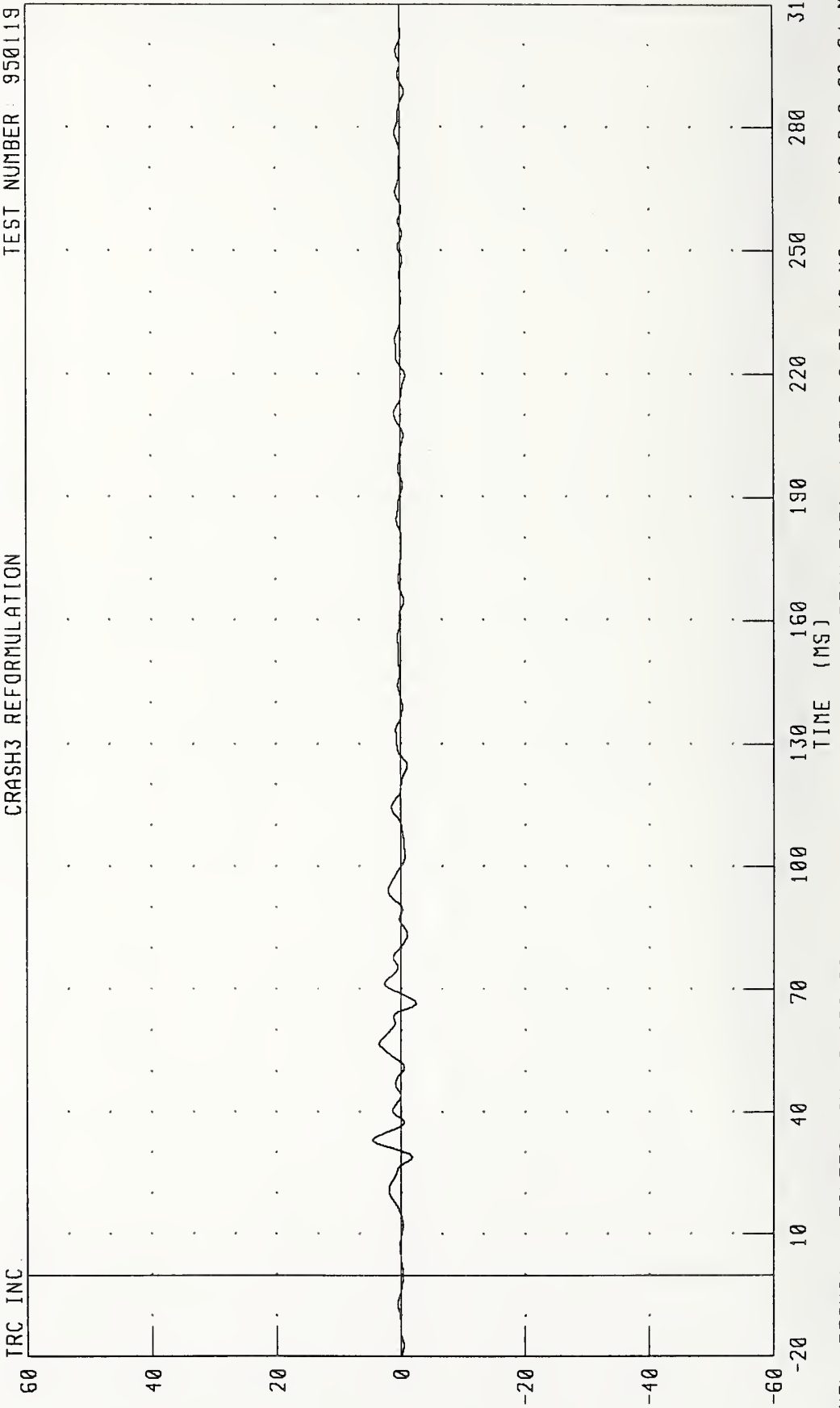
PEAK DATA: 205.28 MM @ 74.72 MS, -31.14 MM @ 310.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5

RIGHT FRONT SILL Y-AXIS ACCELERATION

CRASH3 REFORMULATION

TEST NUMBER: 950119



CHANNEL: RFSYG1 FILTER: CH. CLASS 60

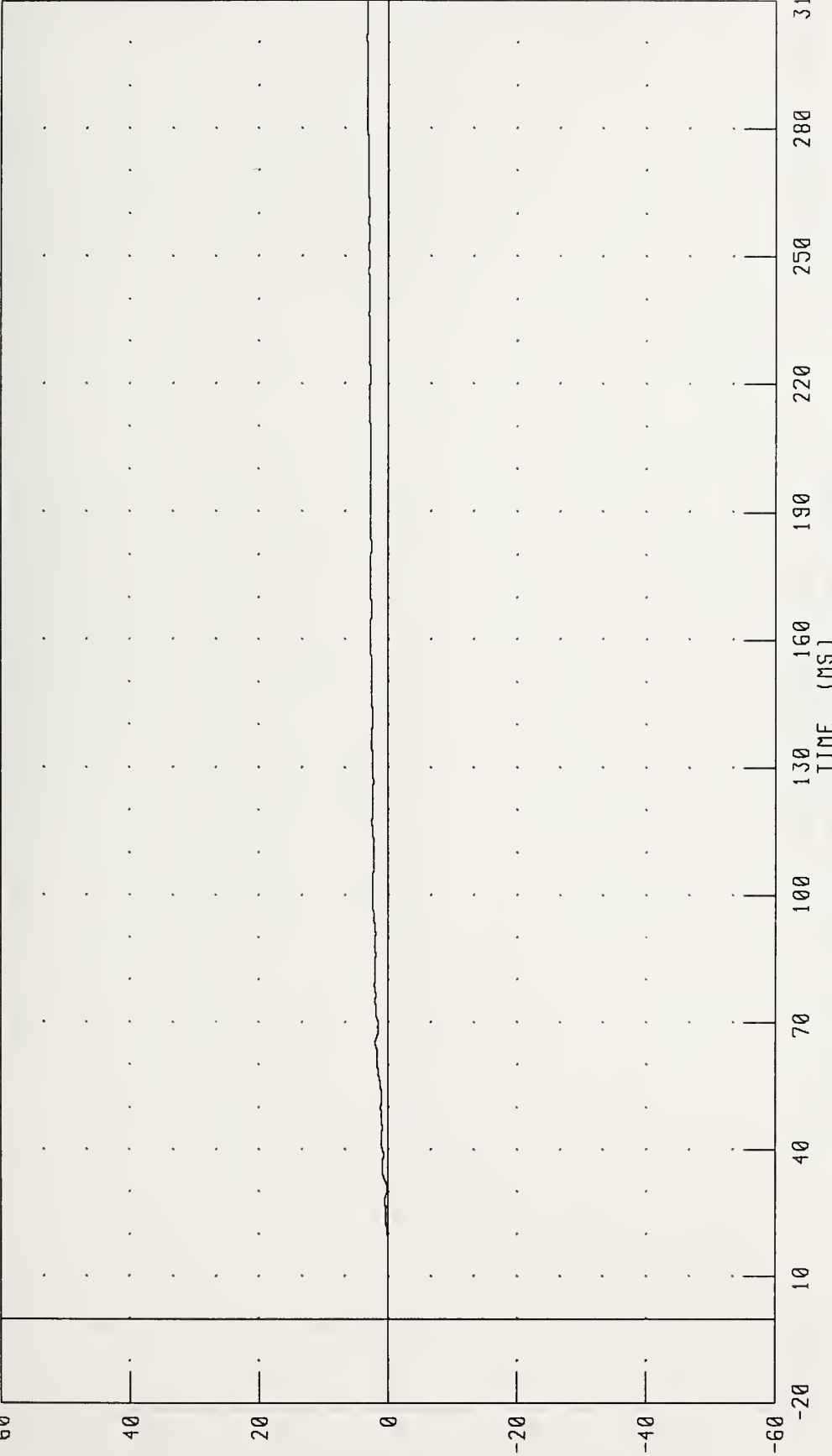
PEAK DATA: 4.56 G @ 33.12 MS, -2.46 G @ 66.64 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
RIGHT FRONT SILL Y-AXIS VELOCITY

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC.

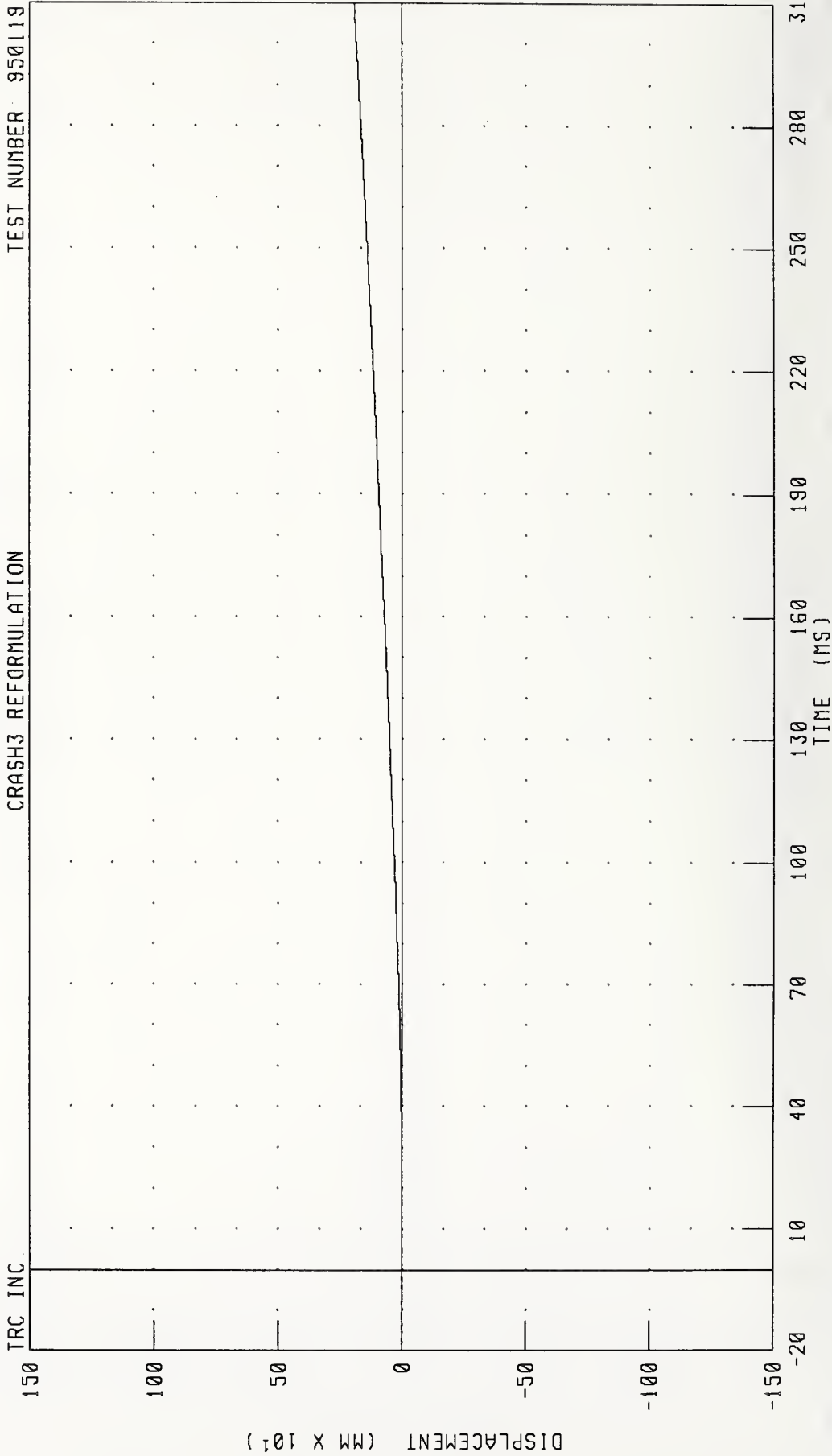


CHANNEL: RFSYV1 FILTER: CH CLASS 180

PEAK DATA: 3.32 KM/H @ 301.36 MS, -0.05 KM/H @ 13.44 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
 RIGHT FRONT SILL Y-AXIS DISPLACEMENT

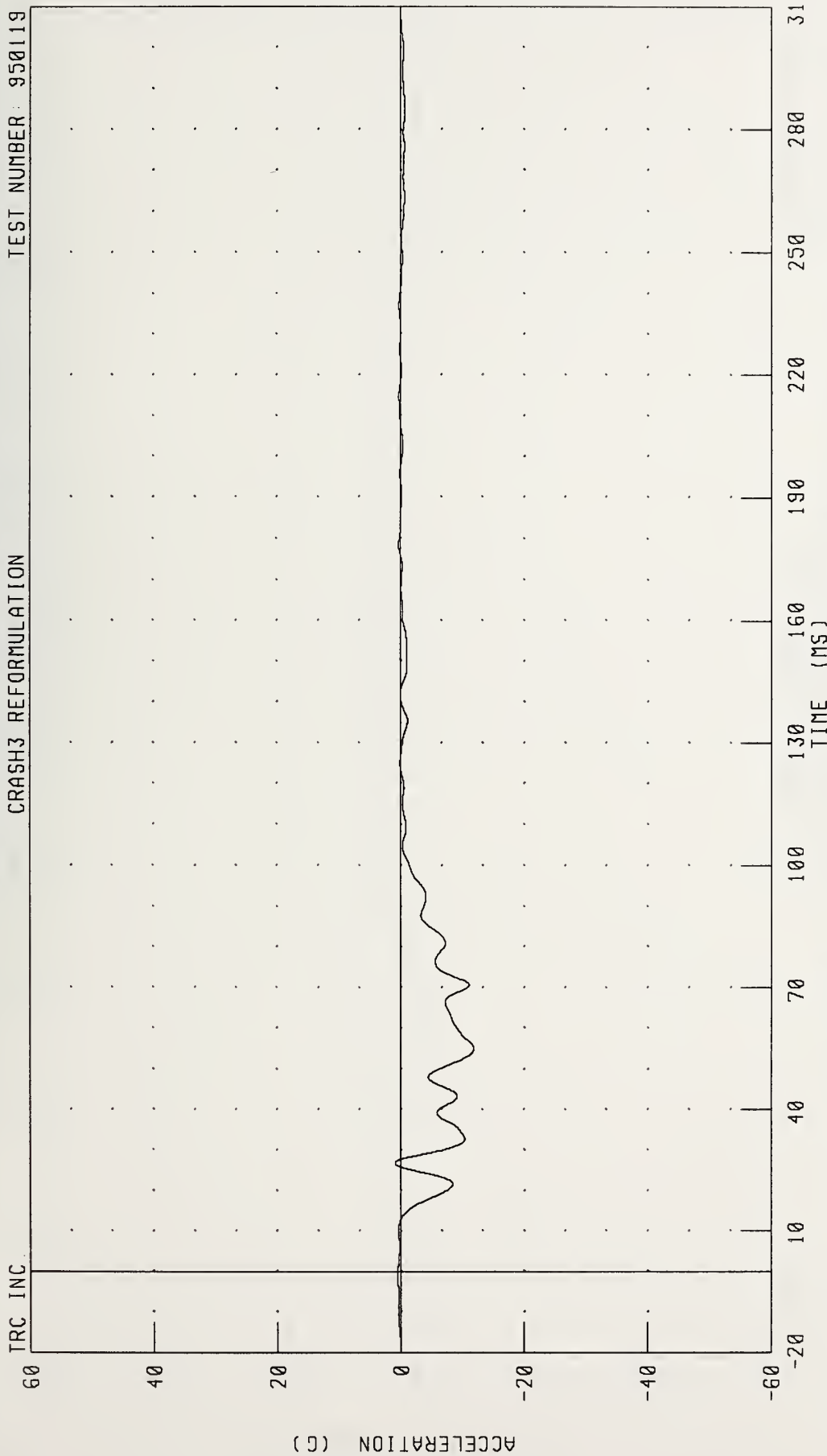
CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL: RFSYD1 FILTER: CH CLASS 180 PEAK DATA: 193 18 MM @ 310 00 MS, -0.12 MM @ 18.16 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
LEFT REAR SEAT X-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER: 950119

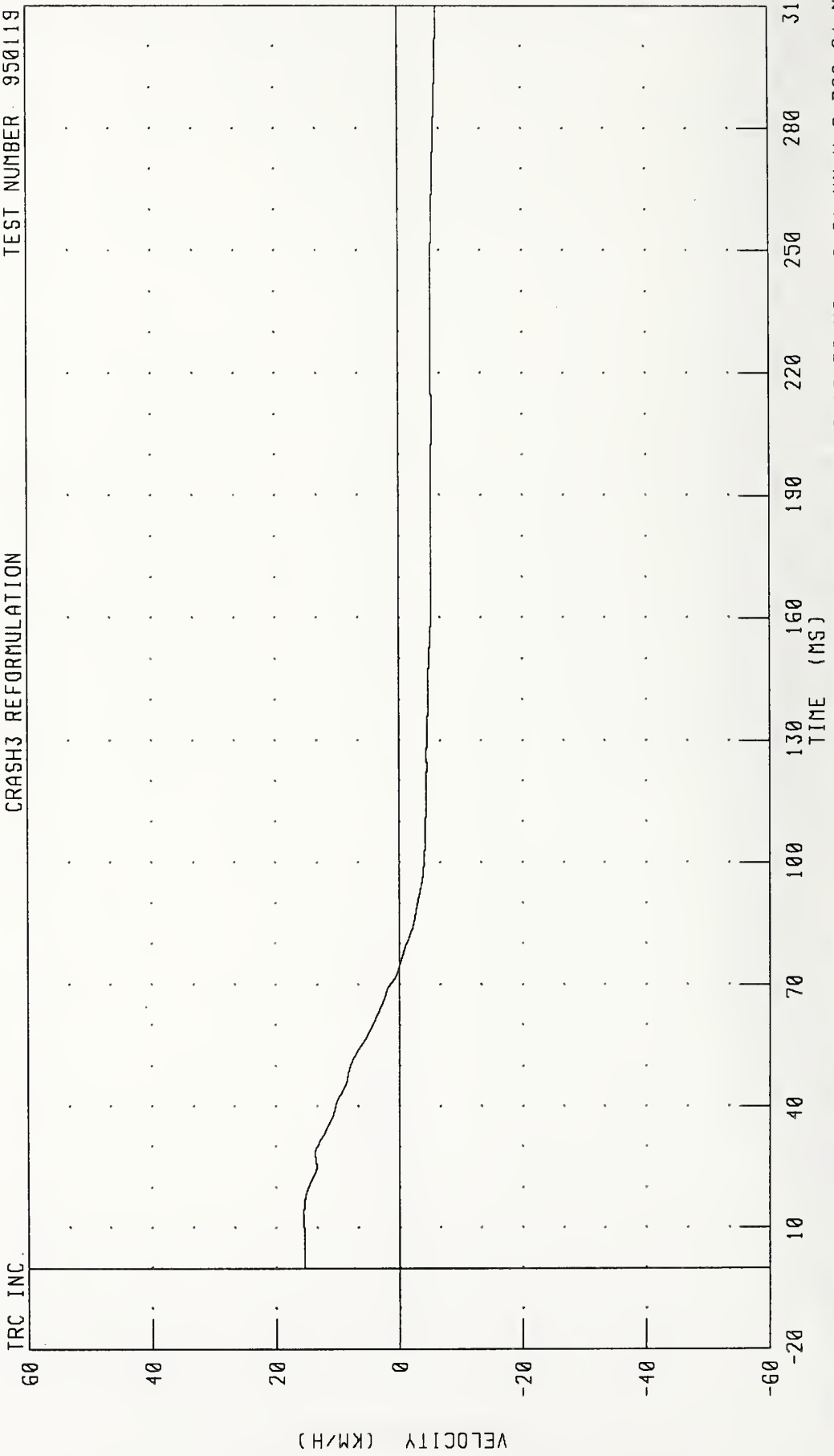


CHANNEL: TLRXG1 FILTER: CH. CLASS 60

PEAK DATA 0 93 G @ 26 80 MS, -11 84 G @ 54 88 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
LEFT REAR SEAT X-AXIS VELOCITY

CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL: TLRXV1 FILTER: CH. CLASS 180

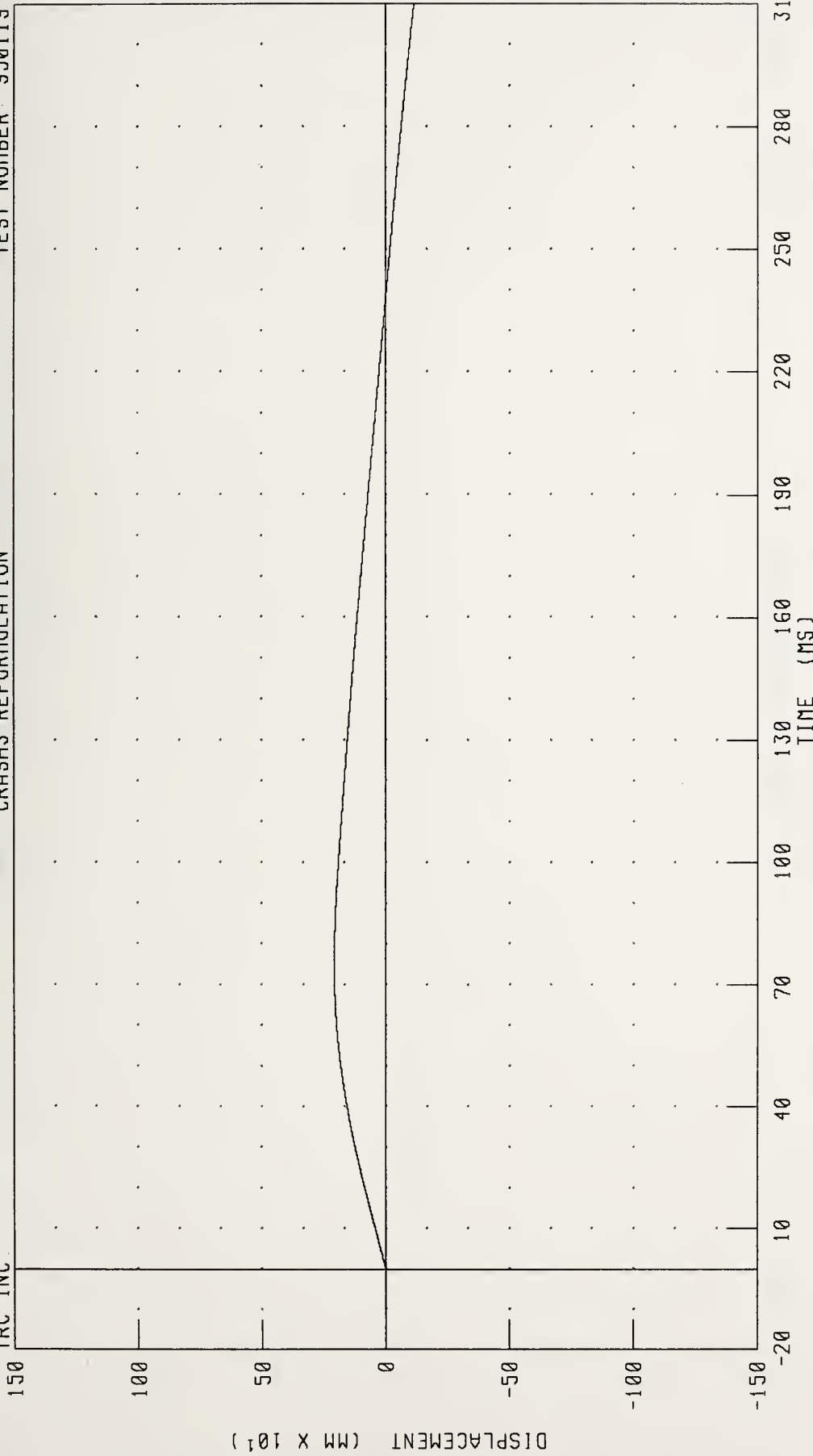
PEAK DATA: 15 53 KM/H @ 12.32 MS; -6.21 KM/H @ 309.04 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
LEFT REAR SEAT X-AXIS DISPLACEMENT

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC

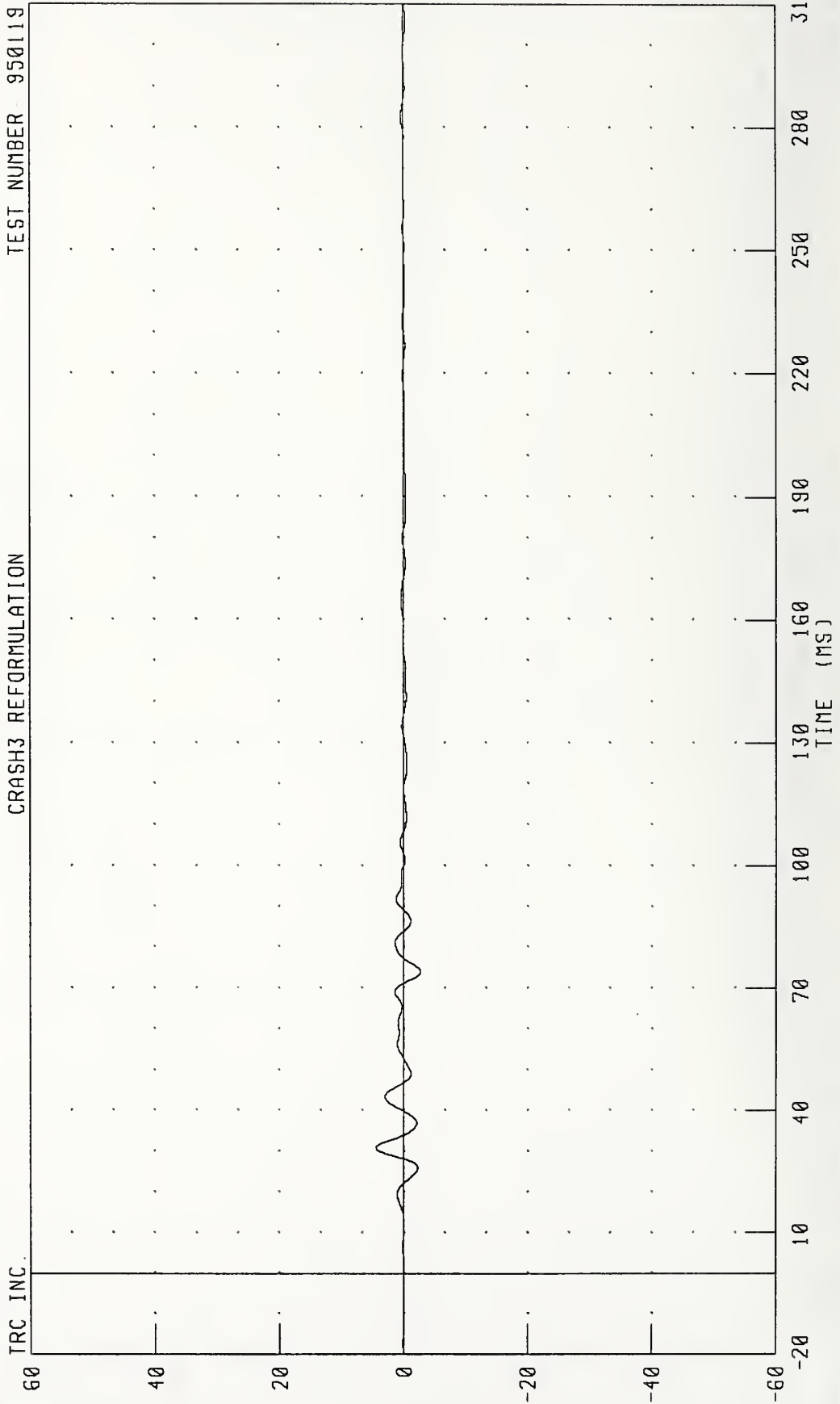


CHANNEL: TLRXD1 FILTER: CH CLASS 180

PEAK DATA: 207.82 MM @ 74.64 MS; -113.80 MM @ 310.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
LEFT REAR SEAT Y-AXIS ACCELERATION

TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119



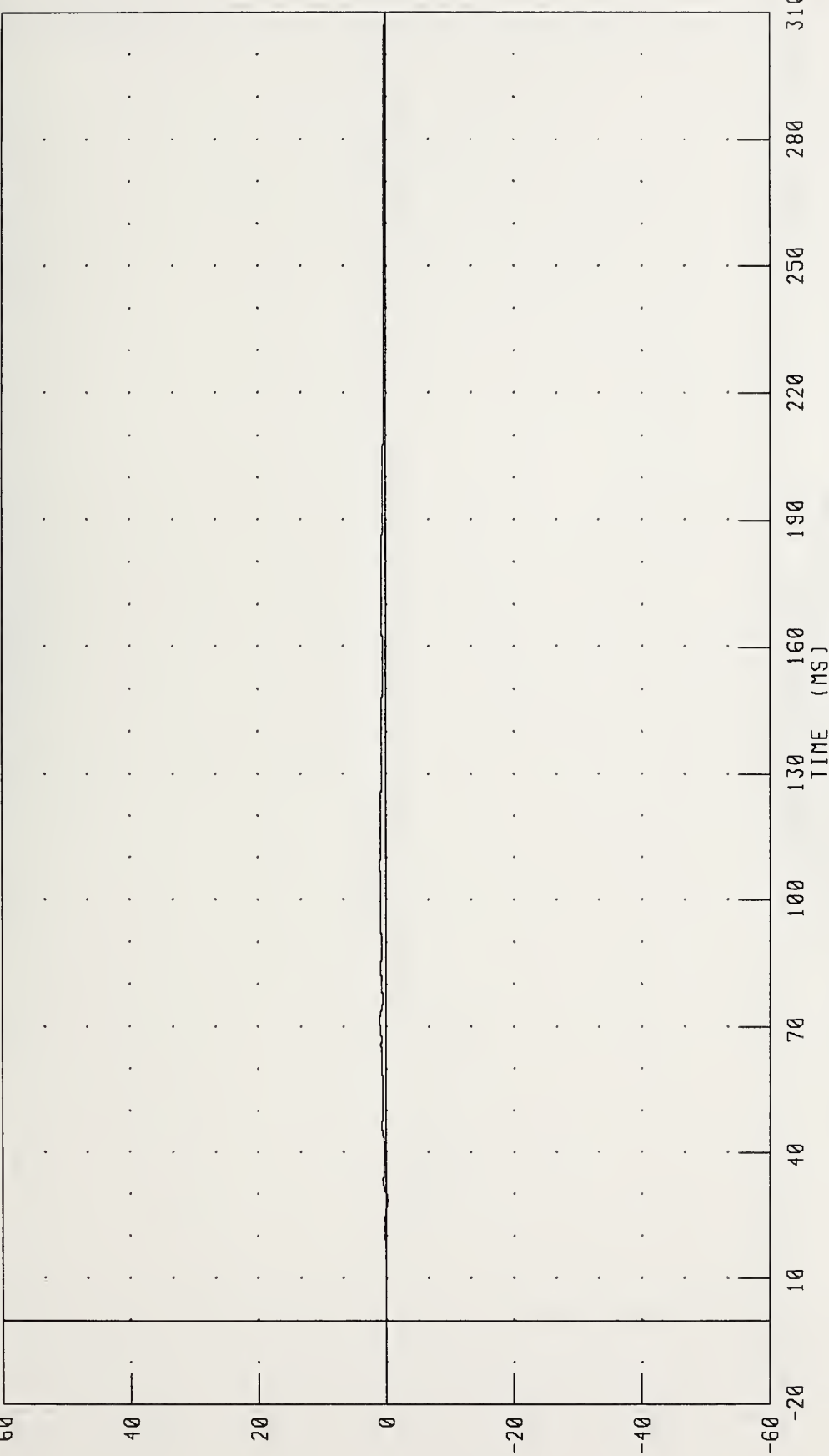
CHANNEL TILRYG1 FILTER CH CLASS 60

PEAK DATA 4 46 G @ 30.88 MS; -2.69 G @ 74.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
LEFT REAR SEAT Y-AXIS VELOCITY

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC.

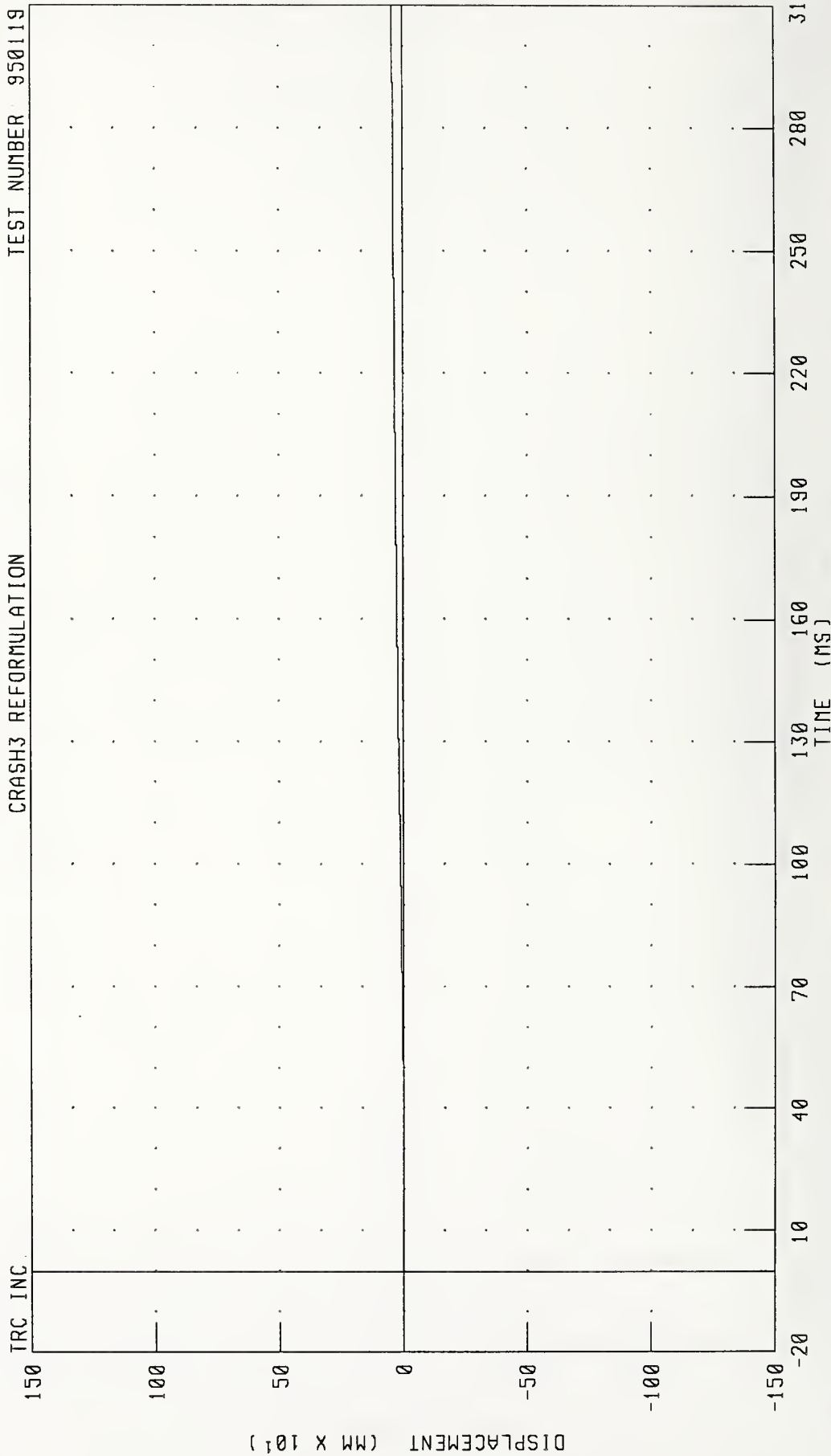


CHANNEL: TLRYV1 FILTER: CH CLASS 180

PEAK DATA: 0.99 KM/H @ 71.76 MS, -0.25 KM/H @ 28.48 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
 LEFT REAR SEAT Y-AXIS DISPLACEMENT

TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119



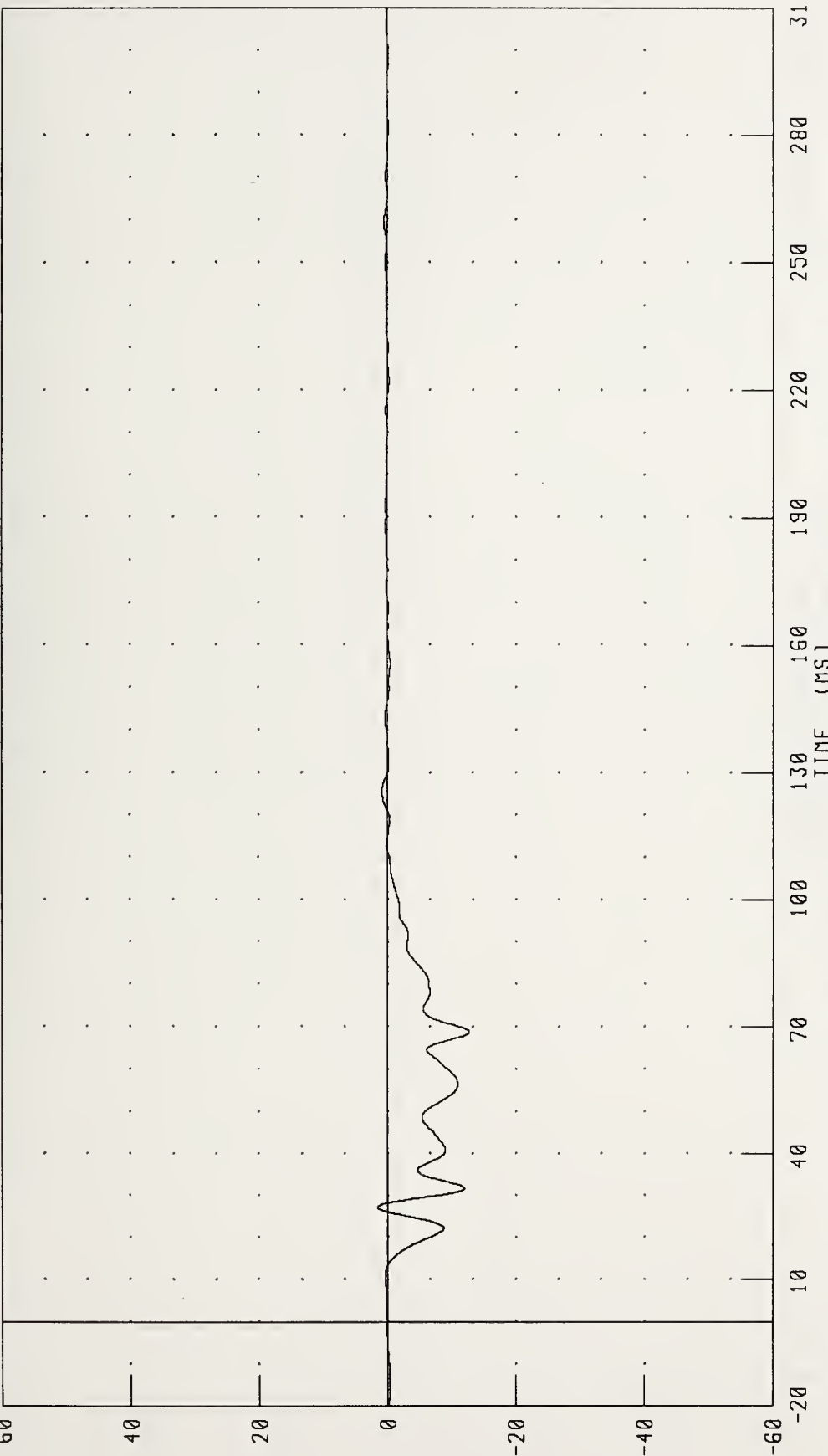
CHANNEL: TLRD1 FILTER: CH. CLASS 180

PEAK DATA: 42.11 MM @ 310.00 MS; -0.01 MM @ 5.76 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
RIGHT REAR SEAT X-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC

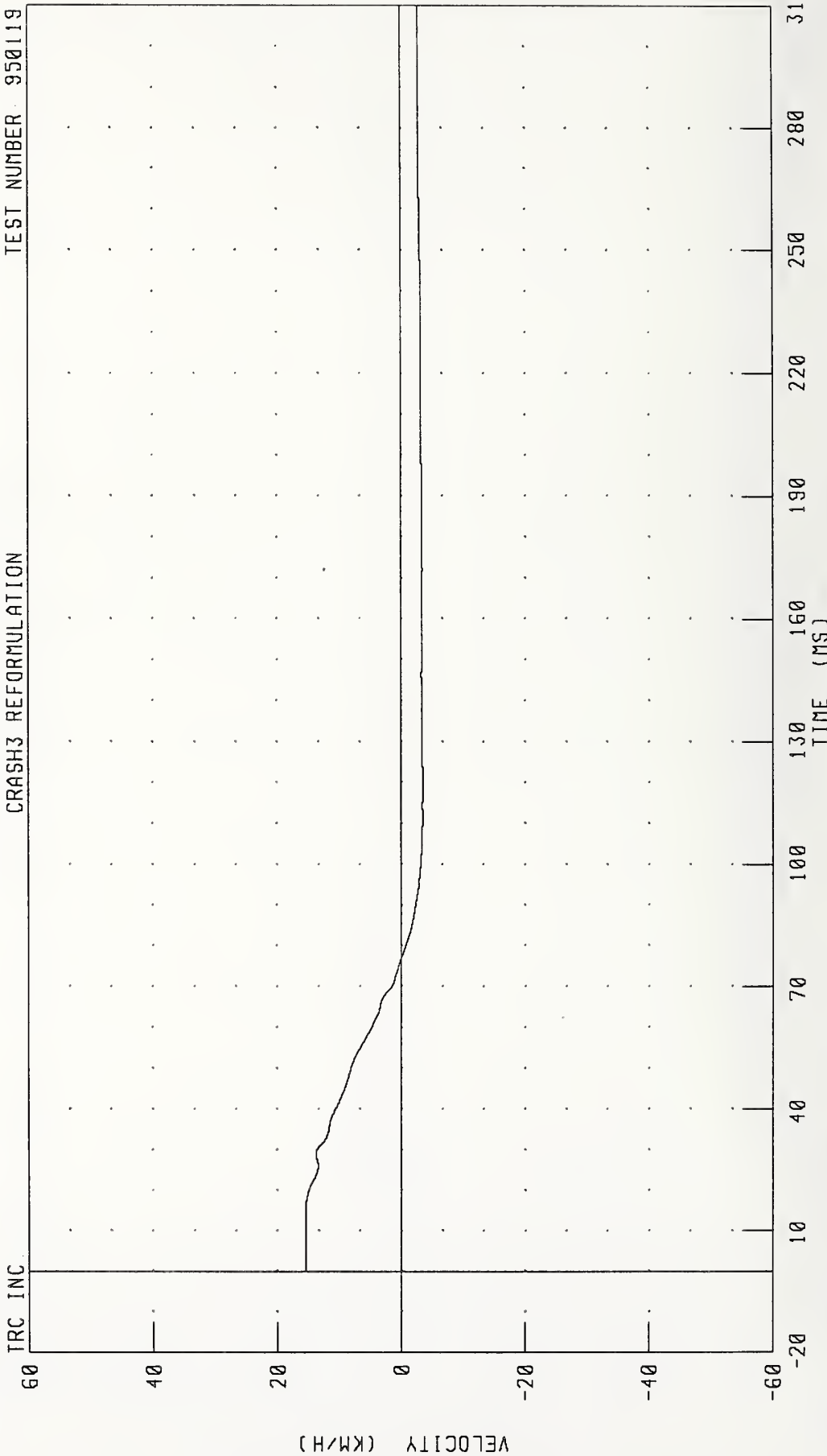


CHANNEL: TRRXG1 FILTER: CH CLASS 60

PEAK DATA 1.60 G @ 27.20 MS, -12.75 G @ 68.80 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
RIGHT REAR SEAT X-AXIS VELOCITY

CRASH3 REFORMULATION TEST NUMBER 950119

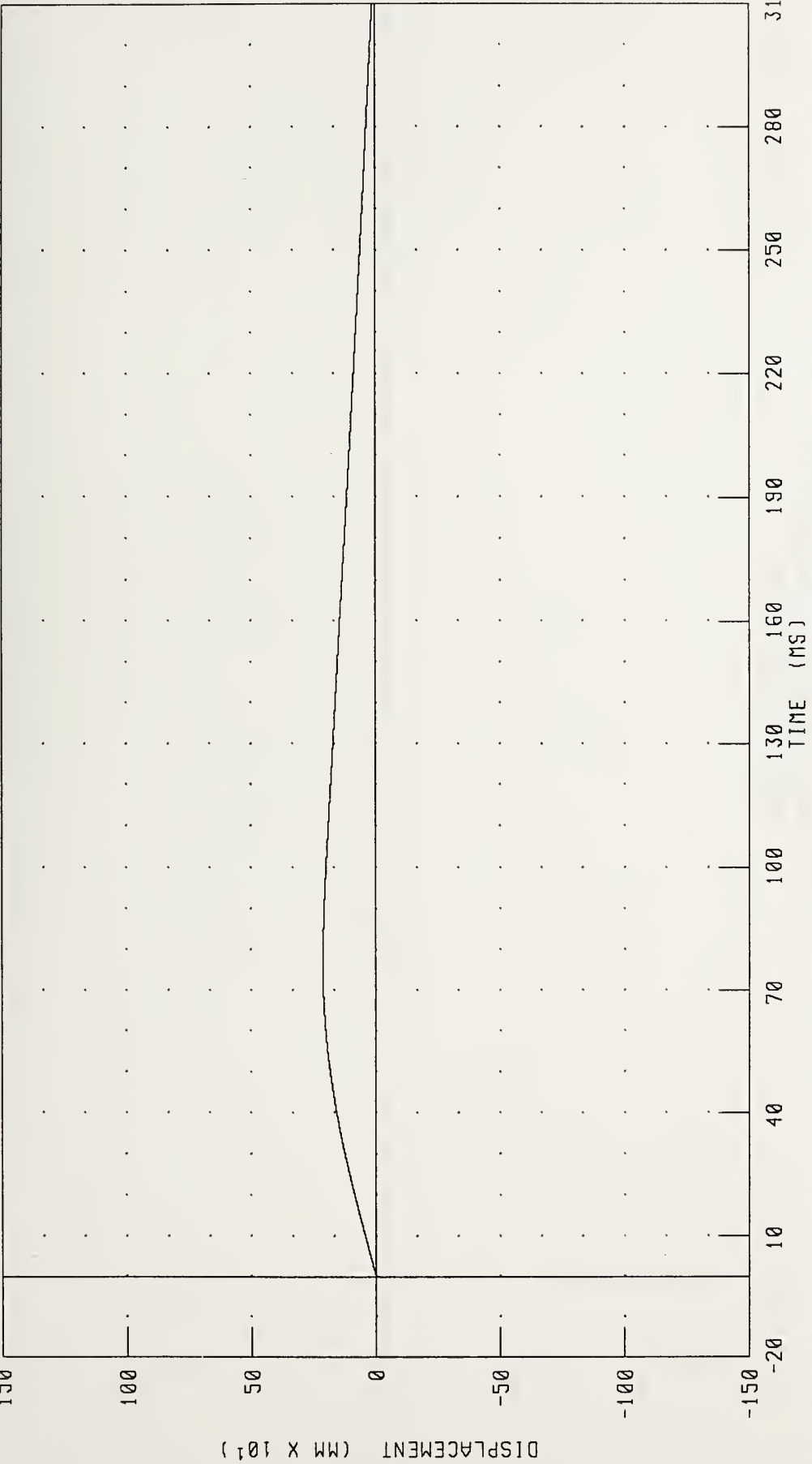


CHANNEL: TRRXV1 FILTER: CH CLASS 180 PEAK DATA: 15.49 KM/H @ 14.16 MS, -3.51 KM/H @ 121.12 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
RIGHT REAR SEAT X-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER: 950119

TRC INC



CHANNEL: TRRX01 FILTER: CH CLASS 180

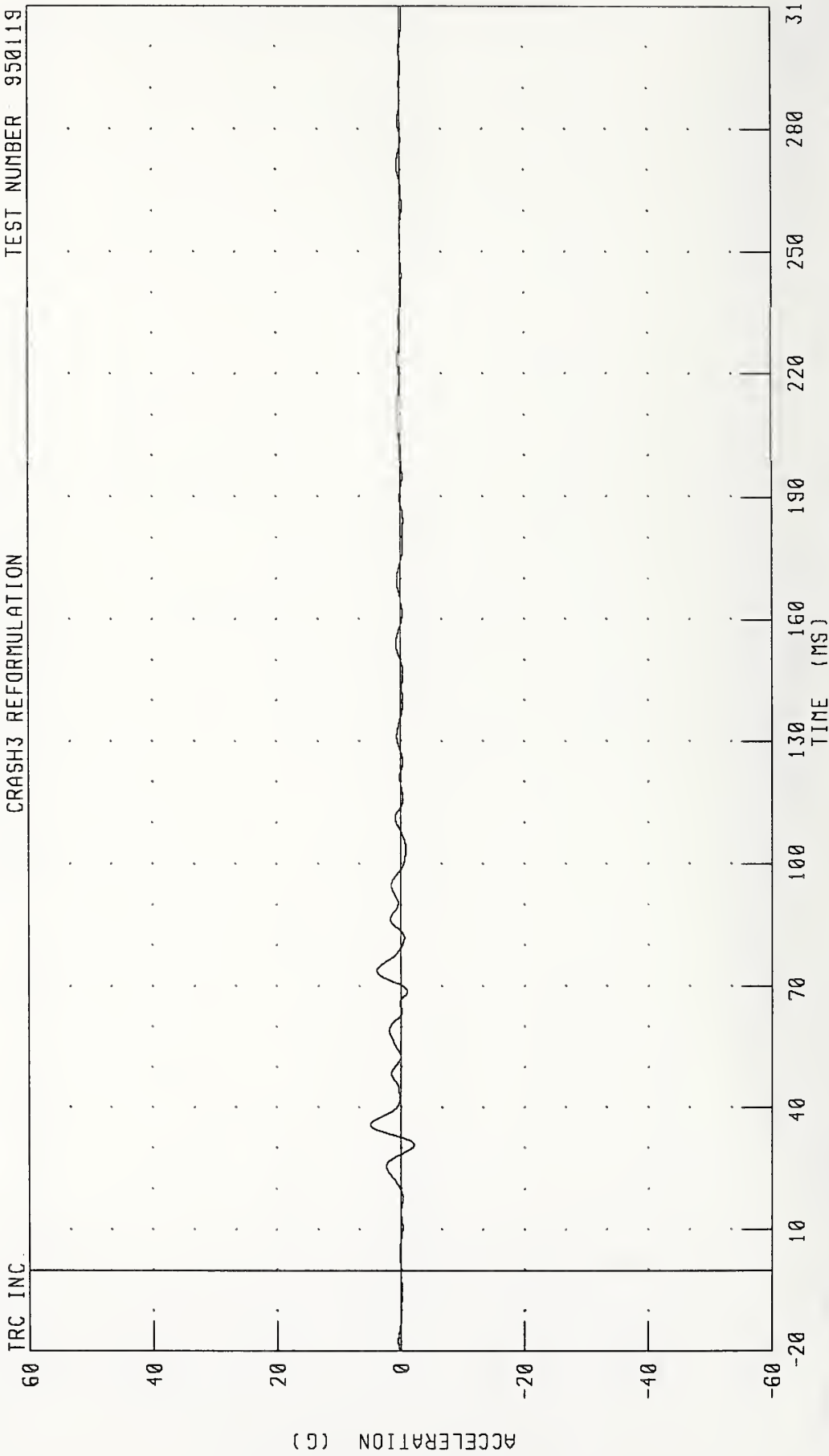
PEAK DATA: 211 92 MM @ 76 96 MS, 0 00 MM @ 0 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5

RIGHT REAR SEAT Y-AXIS ACCELERATION

CRASH3 REFORMULATION

TEST NUMBER 950119



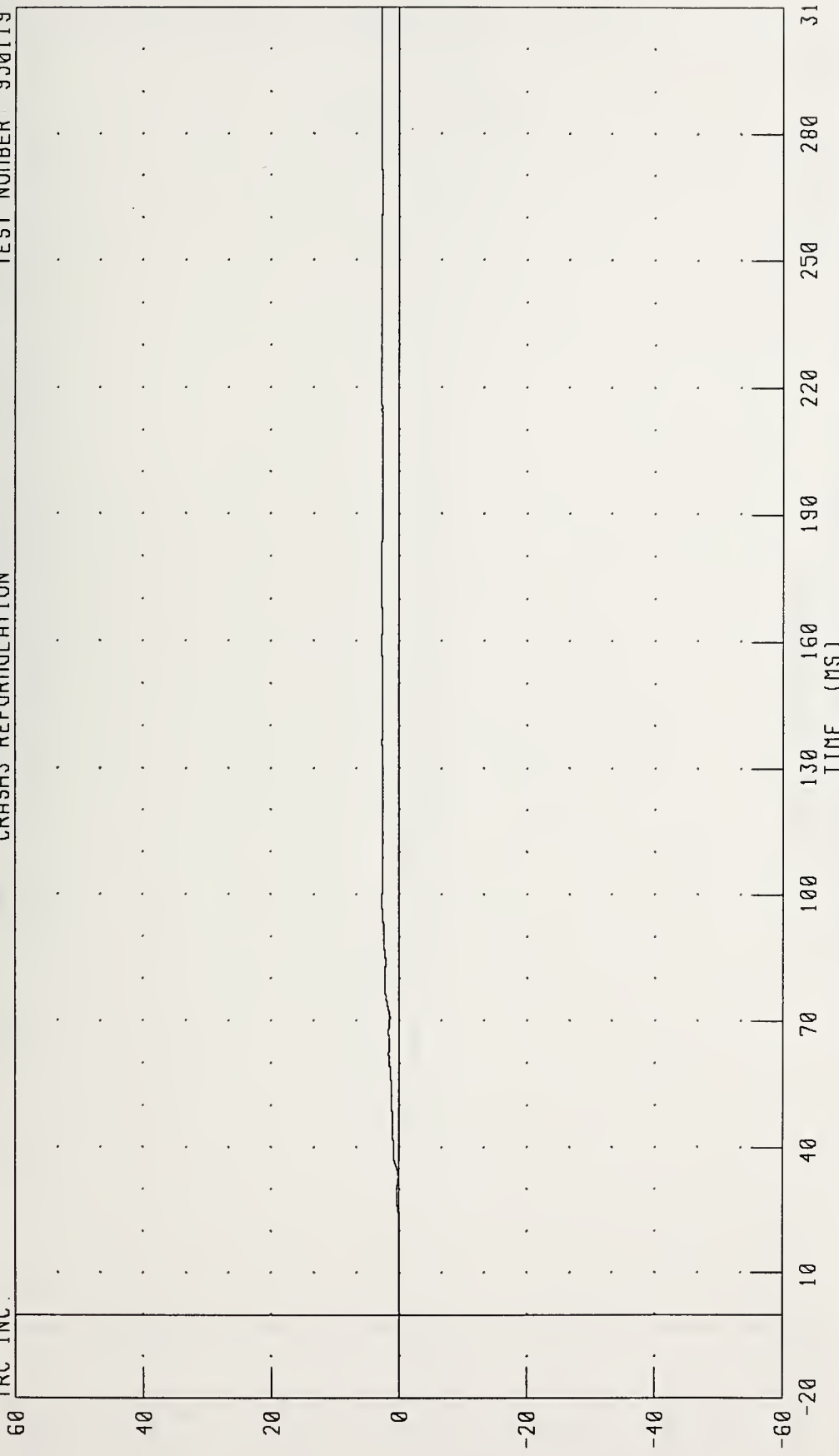
CHANNEL: TTRYG1 FILTER: CH CLASS 60

PEAK DATA: 4.89 G @ 35.84 MS, -2.19 G @ 30.88 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
RIGHT REAR SEAT Y-AXIS VELOCITY

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC.



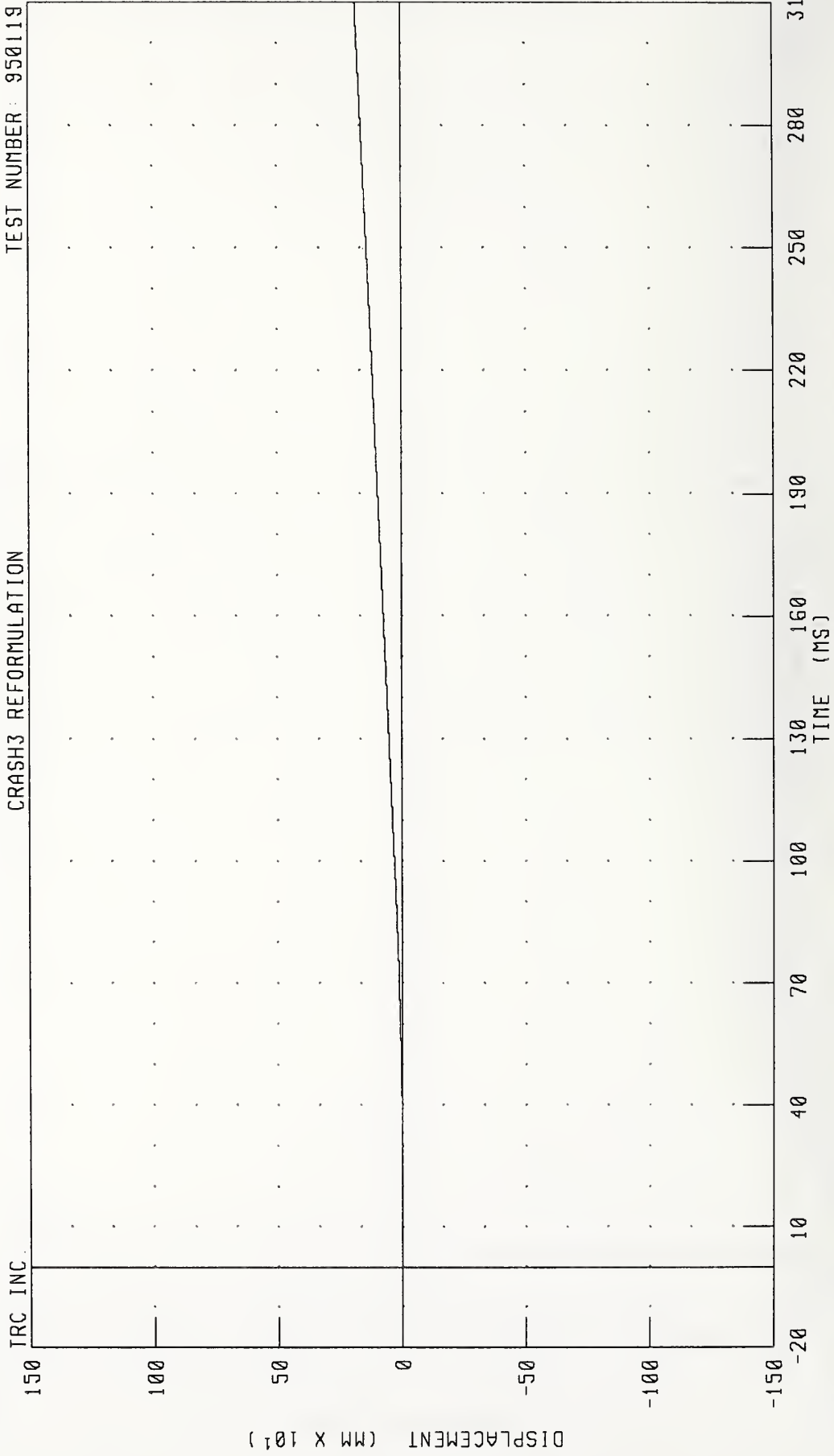
CHANNEL: TRRYV1 FILTER: CH. CLASS 180

PEAK DATA: 2.75 KM/H @ 292.32 MS, -0.05 KM/H @ 19.12 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 2 OF 5
RIGHT REAR SEAT Y-AXIS DISPLACEMENT

TEST NUMBER: 950119

CRASH3 REFORMULATION



CHANNEL: TRRYD1 FILTER: CH. CLASS 180

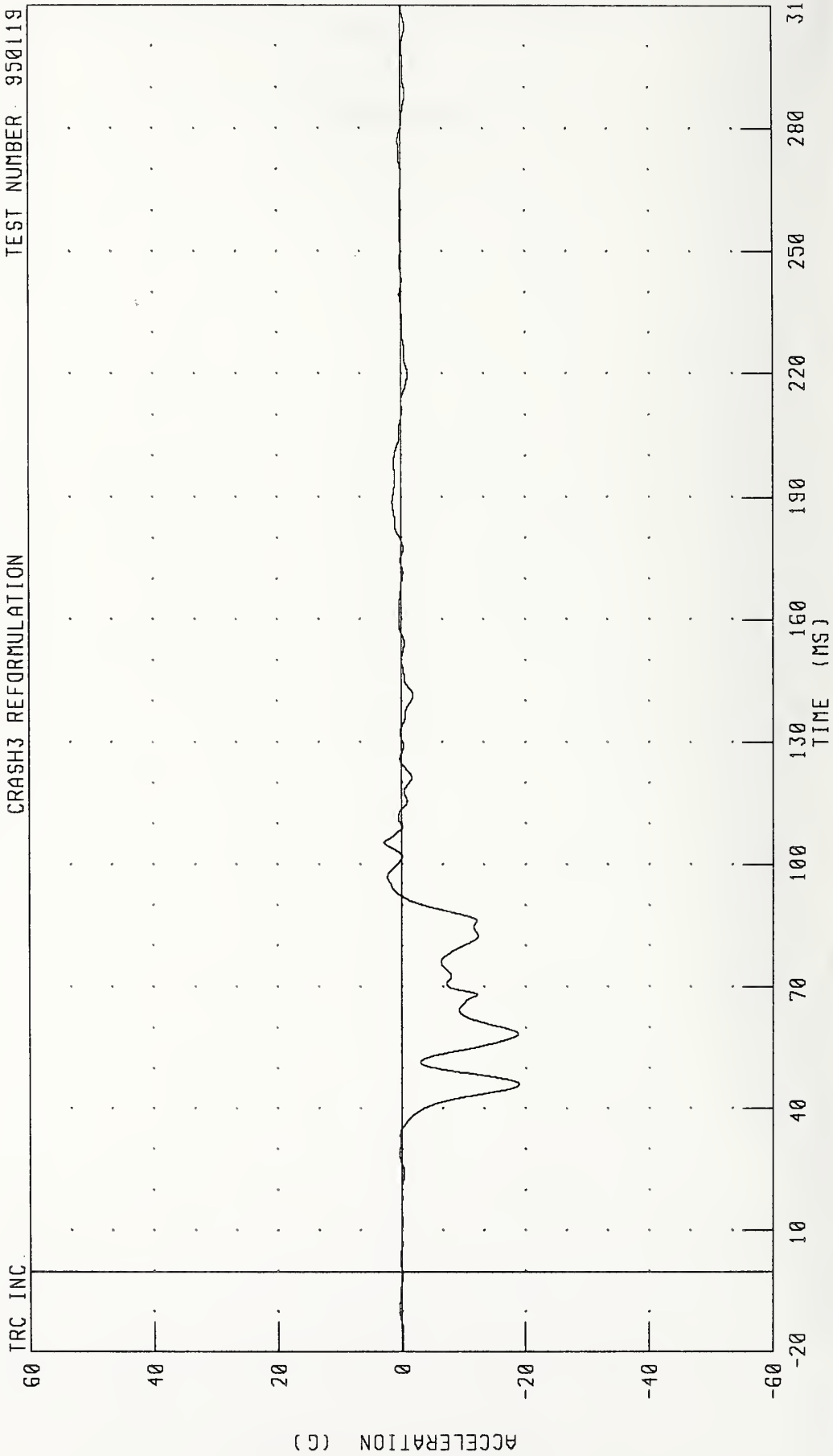
PEAK DATA: 184.58 MM @ 310.00 MS; -0.01 MM @ 22.40 MS

Data Plots

Test No. 950119-3

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
VEHICLE CG X-AXIS ACCELERATION
CRASH3 REFORMULATION

TEST NUMBER 950119



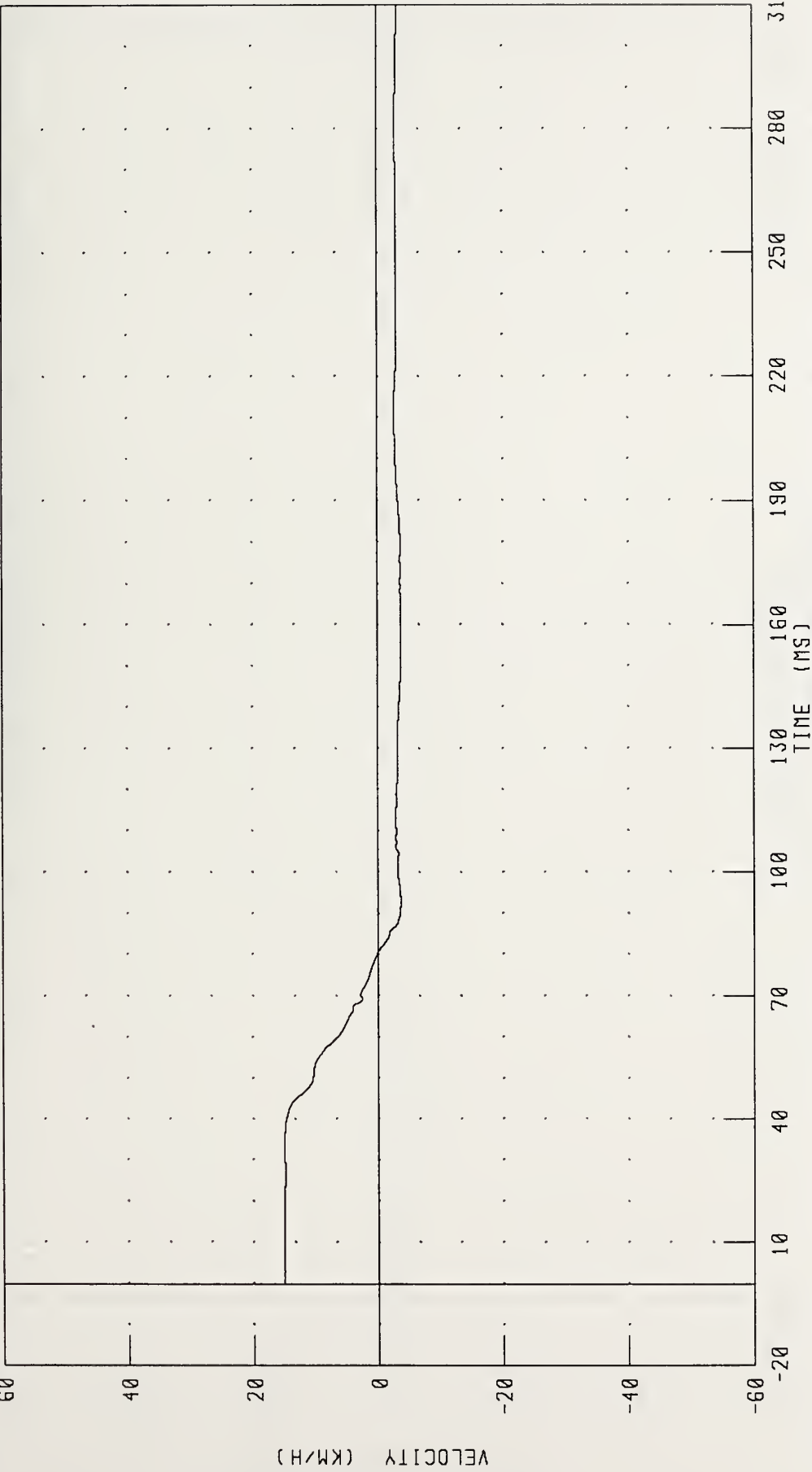
CHANNEL: VCGXG1 FILTER: CH CLASS 60

PEAK DATA: 2.89 G @ 105.44 MS, -19.02 G @ 46.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
VEHICLE CG X-AXIS VELOCITY

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC.



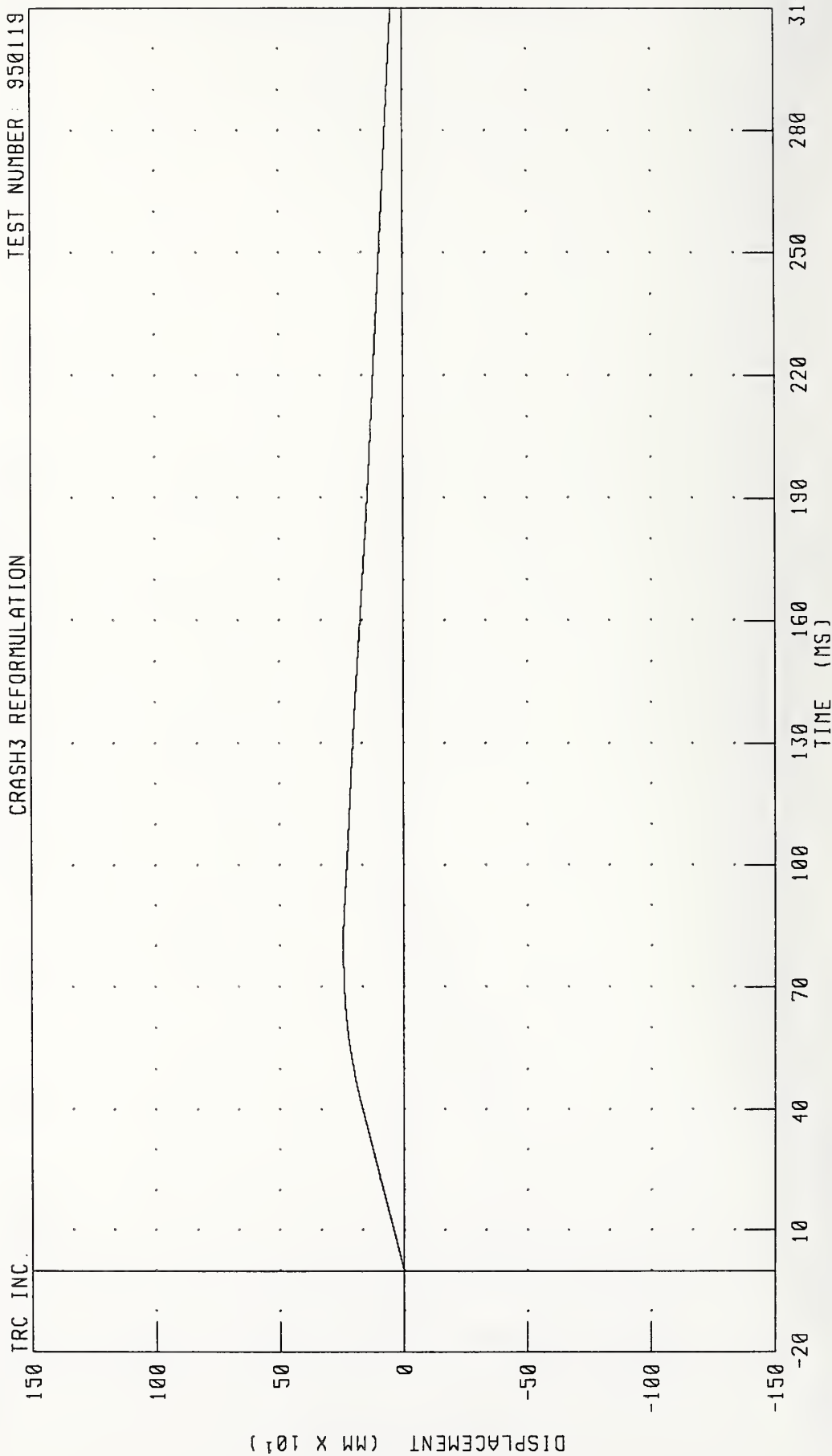
CHANNEL: VCGXV1 FILTER: CH CLASS 180

PEAK DATA: 15.05 KM/H @ 10.32 MS; -3.75 KM/H @ 156.64 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
VEHICLE CG X-AXIS DISPLACEMENT

TRC INC. TEST NUMBER: 950119

CRASH3 REFORMULATION



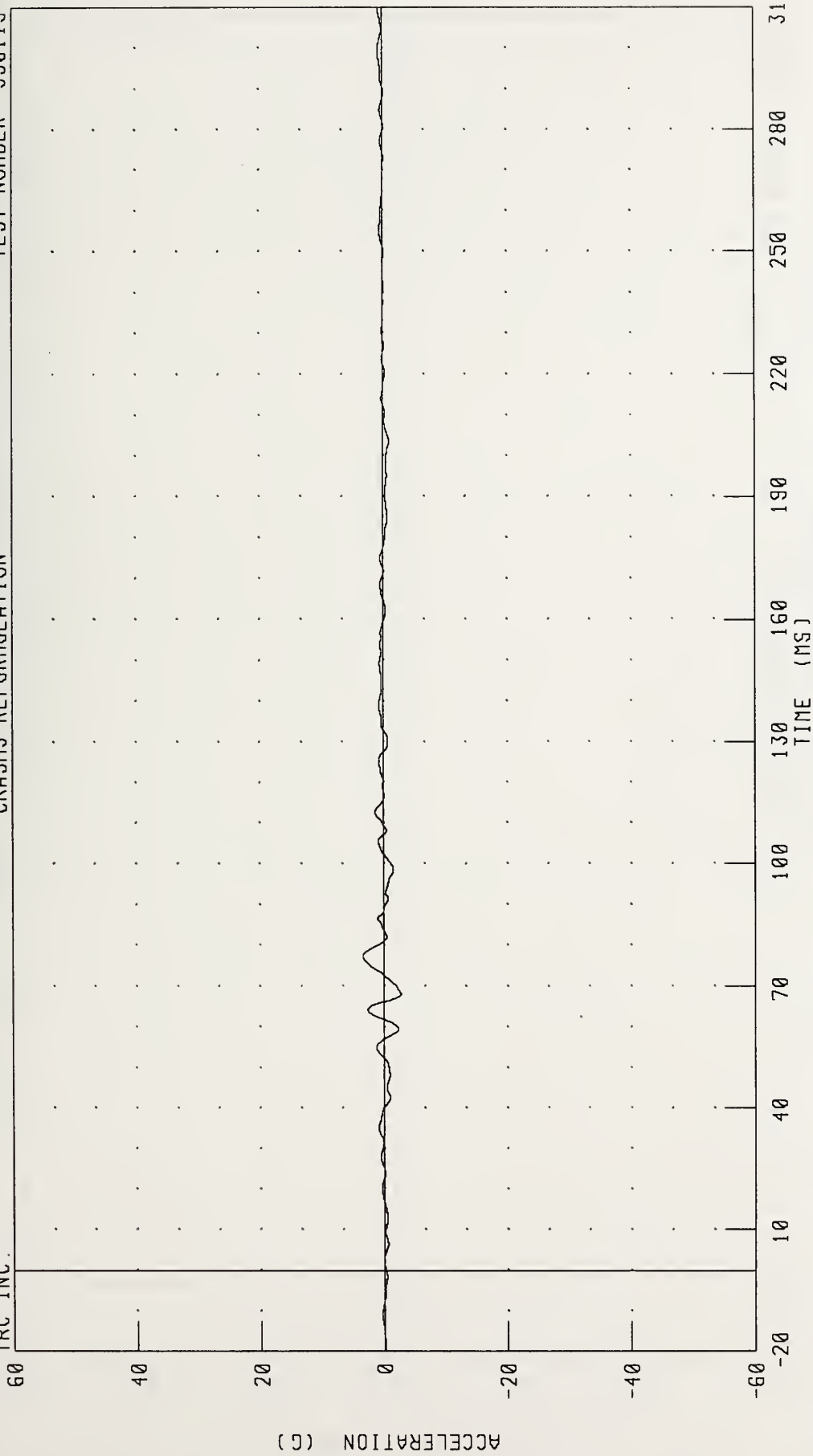
CHANNEL: VCGXD1 FILTER: CH CLASS 180

PEAK DATA: 244.93 MM @ 80.56 MS; 0.00 MM @ 0.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
VEHICLE CG Y-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC.



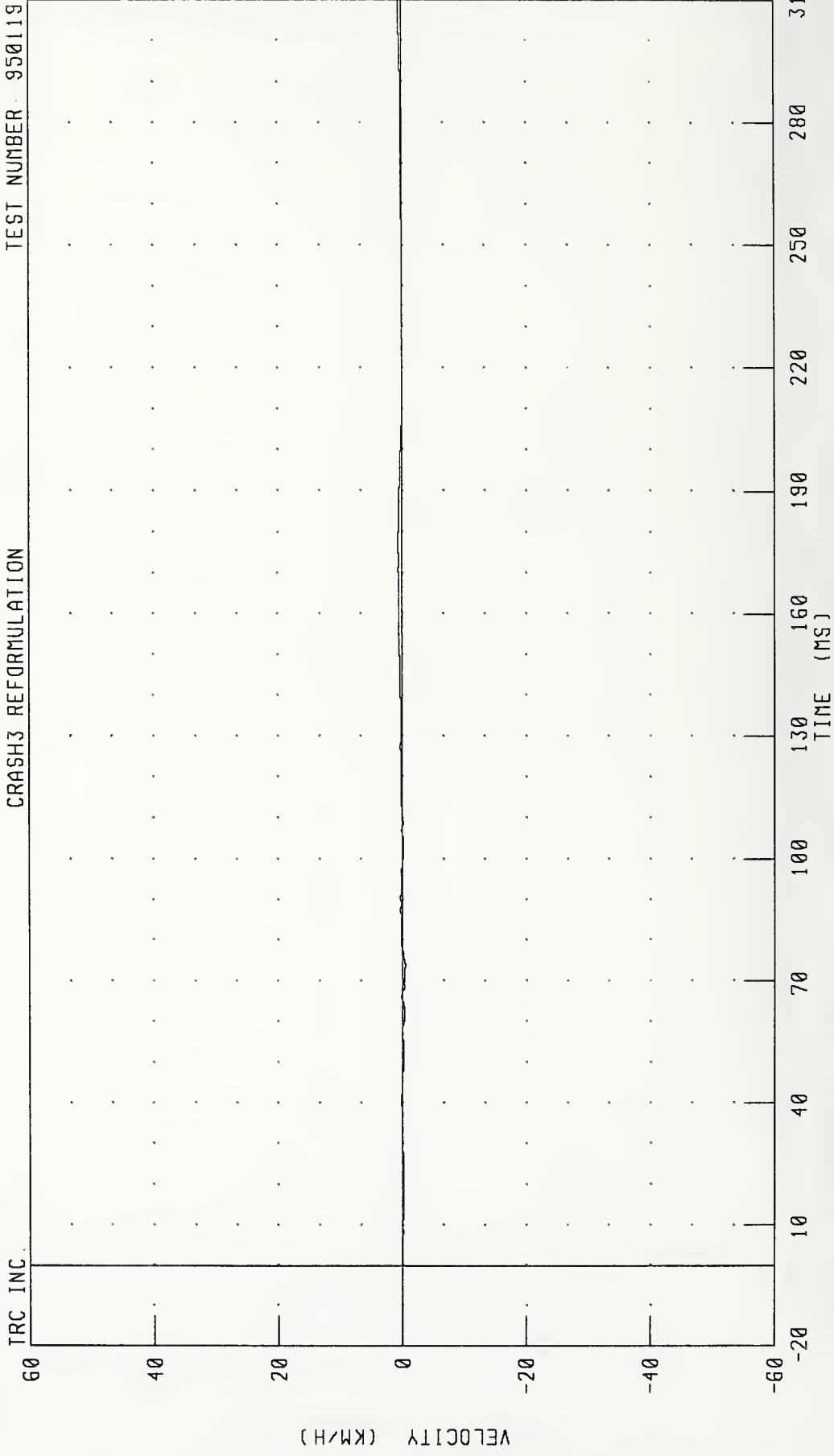
CHANNEL: VCGY61 FILTER: CH. CLASS 60

TIME (MS)

PEAK DATA: 3.42 G @ 77.36 MS, -2.80 G @ 68.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
 VEHICLE CG Y-AXIS VELOCITY

TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119

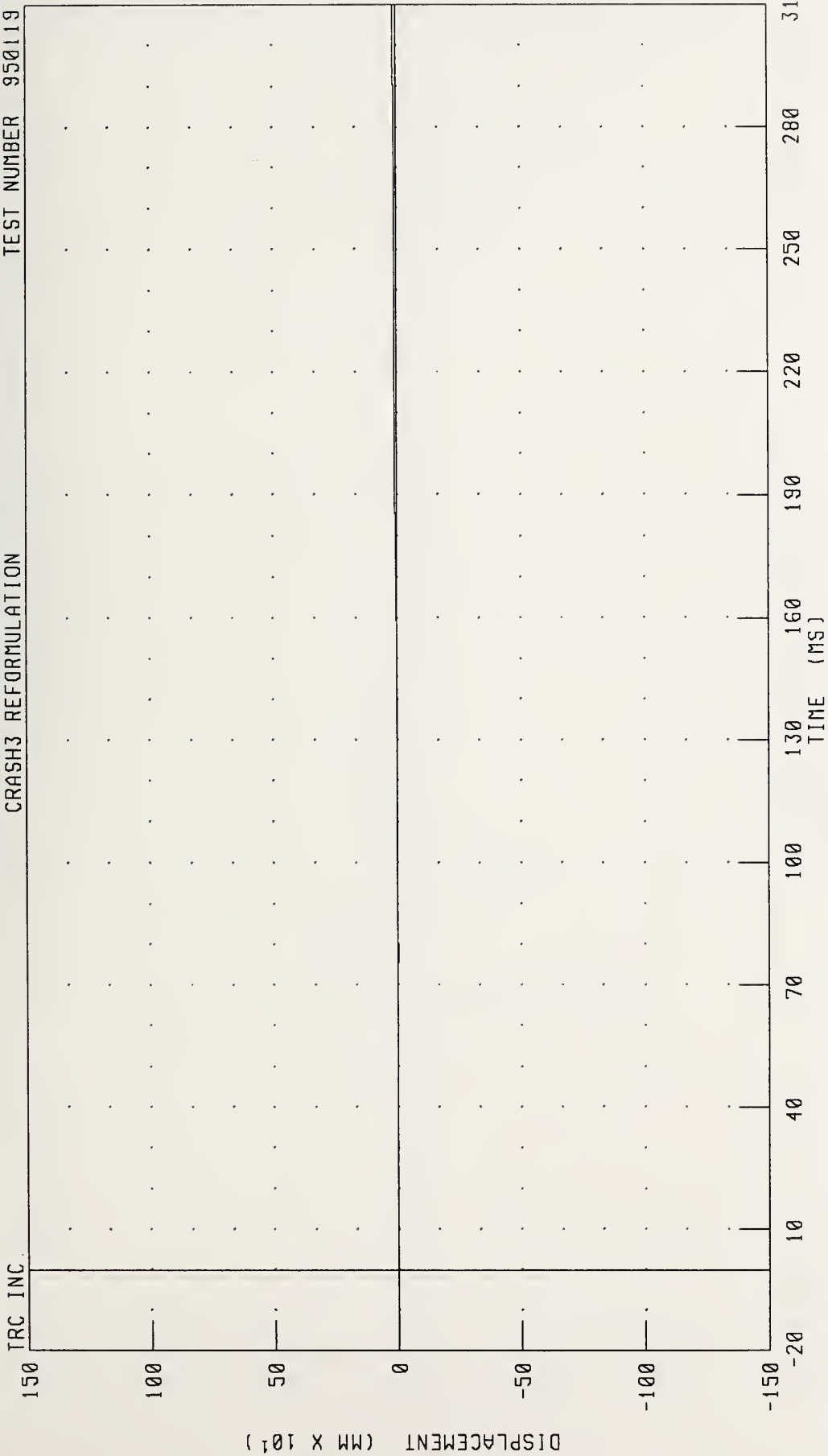


CHANNEL: VCGYV1 FILTER: CH CLASS 180

PEAK DATA: 0 65 KM/H @ 175 92 MS, -0.46 KM/H @ 73.76 MS

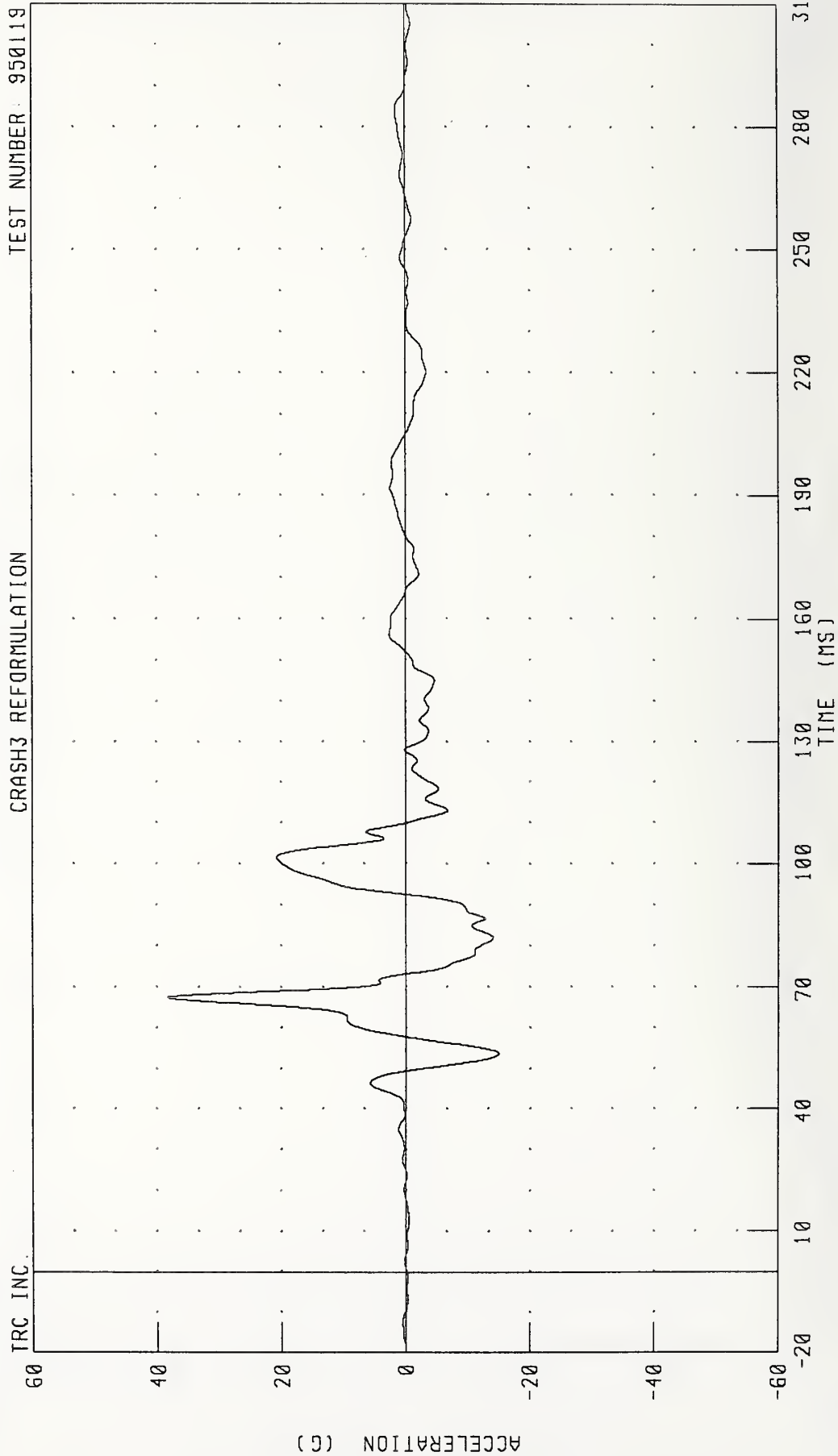
1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
 VEHICLE CG Y-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL VCGYD1 FILTER CH CLASS 180 PEAK DATA 12 83 MM @ 310.00 MS, -2.03 MM @ 77 84 MS

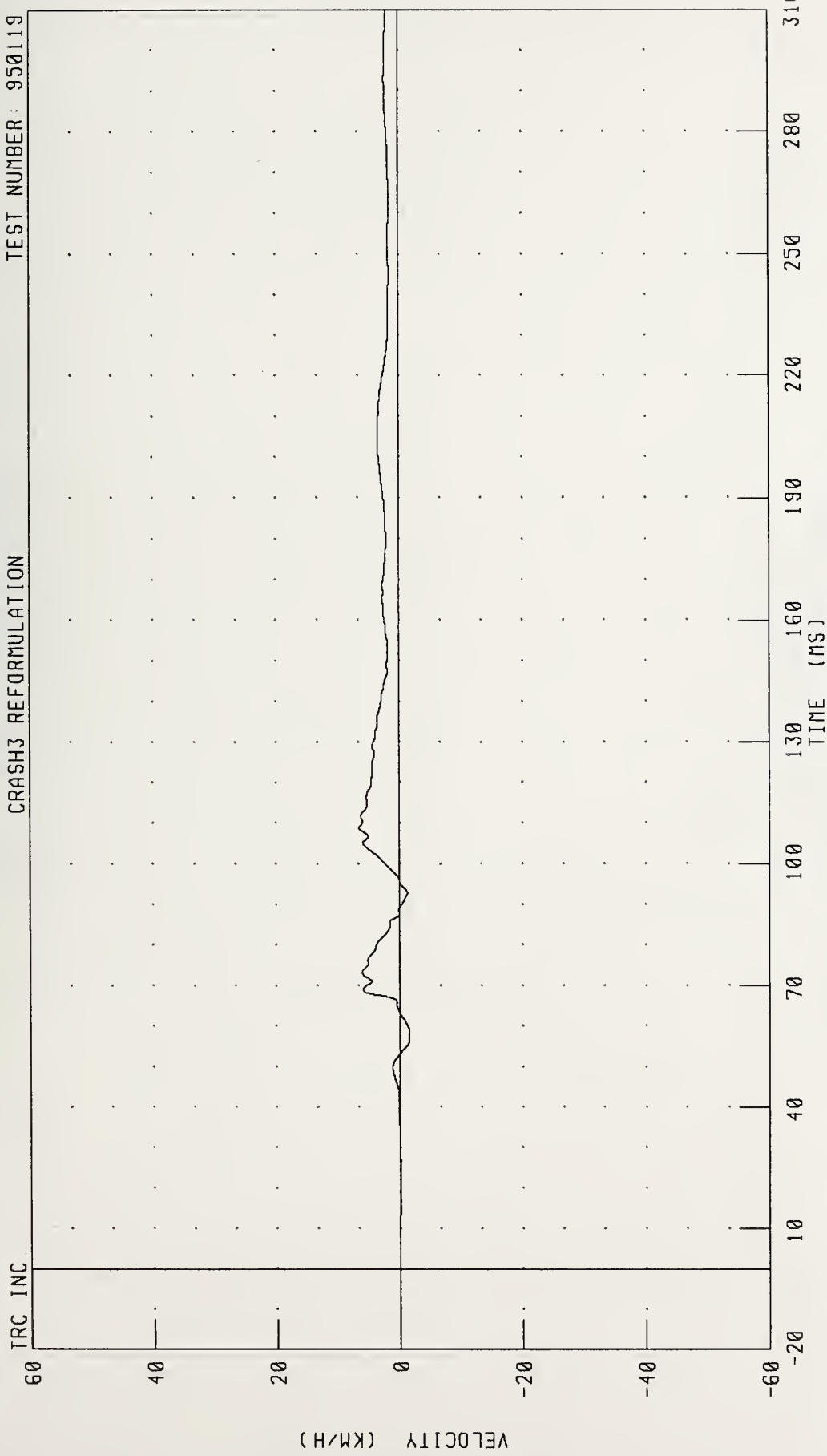
1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
VEHICLE CG Z-AXIS ACCELERATION
CRASH3 REFORMULATION



1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
VEHICLE CG Z-AXIS VELOCITY

TEST NUMBER: 950119

CRASH3 REFORMULATION

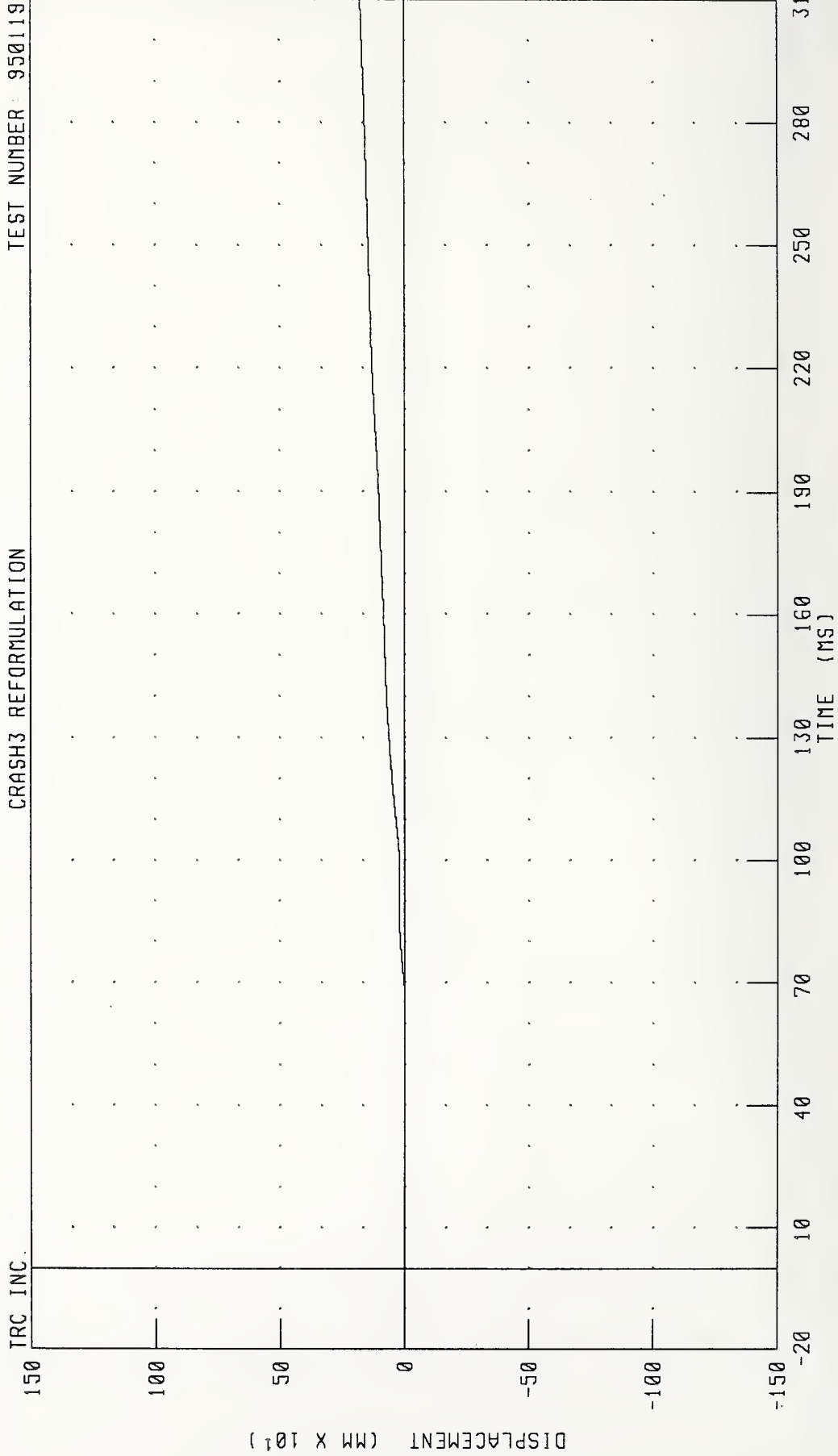


CHANNEL: VCGZY1 FILTER: CH. CLASS 180

PEAK DATA: 6.60 KM/H @ 108.80 MS, -1.59 KM/H @ 58.72 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
VEHICLE CG Z-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER: 950119



CHANNEL: VCGZD1 FILTER: CH. CLASS 180

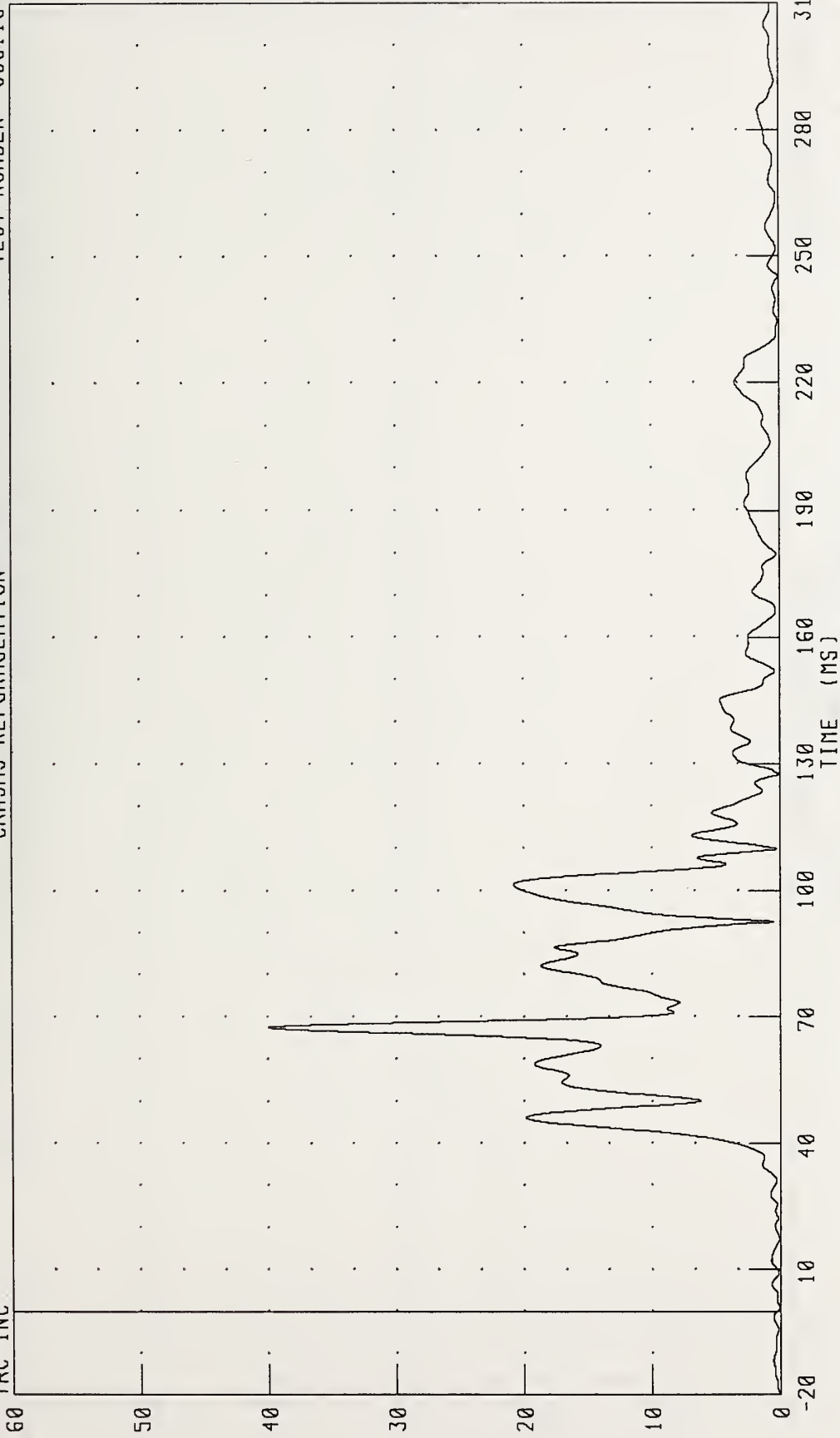
PEAK DATA: 177.39 MM @ 310.00 MS, -1.14 MM @ 63.36 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
VEHICLE CG RESULTANT ACCELERATION

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC



CHANNEL: VCGRG1 FILTER: CH. CLASS 60

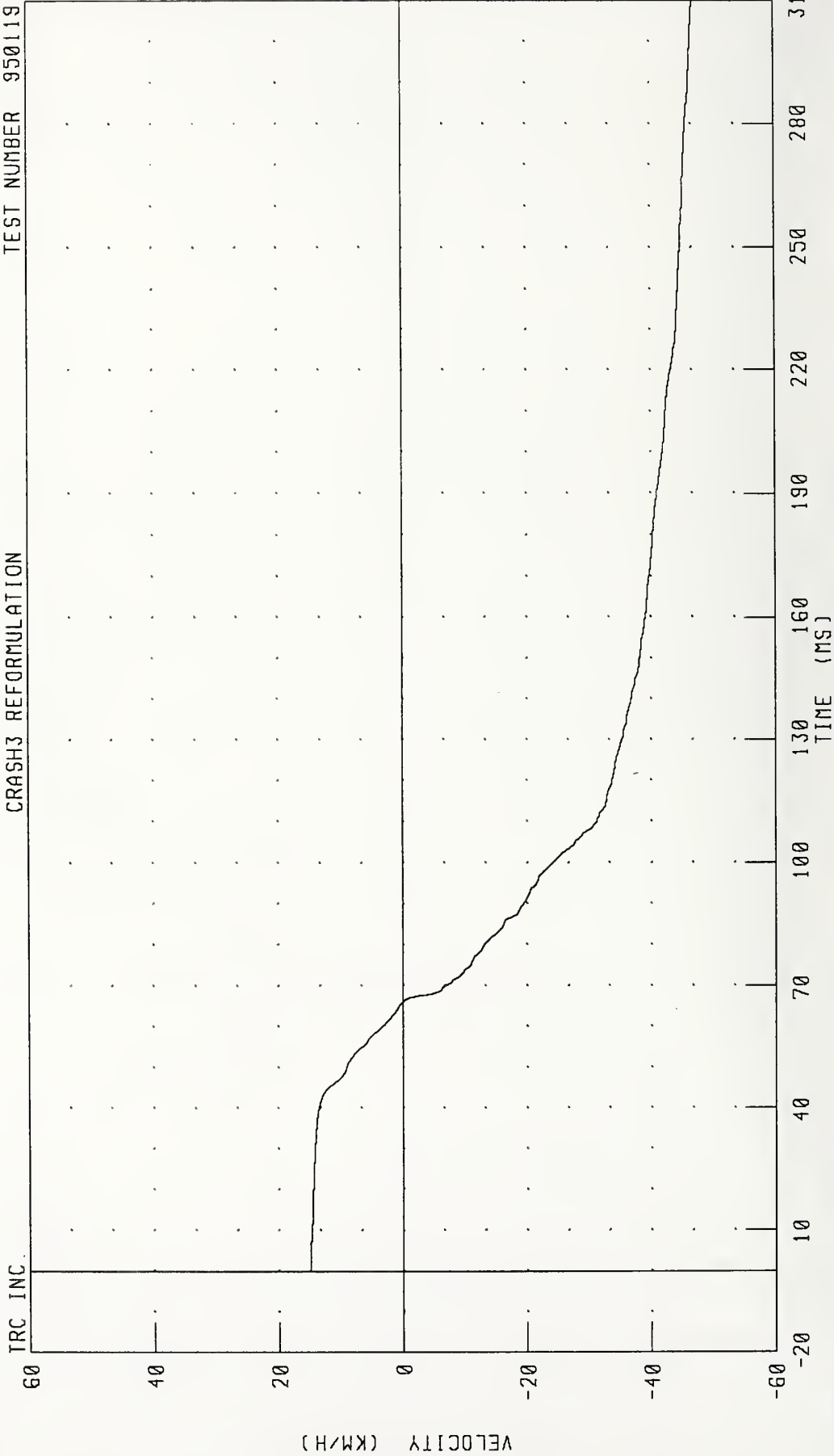
PEAK DATA: 40.02 G @ 67.44 MS; 0.08 G @ 245.20 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5

VEHICLE CG RESULTANT VELOCITY

CRASH3 REFORMULATION

TEST NUMBER 950119

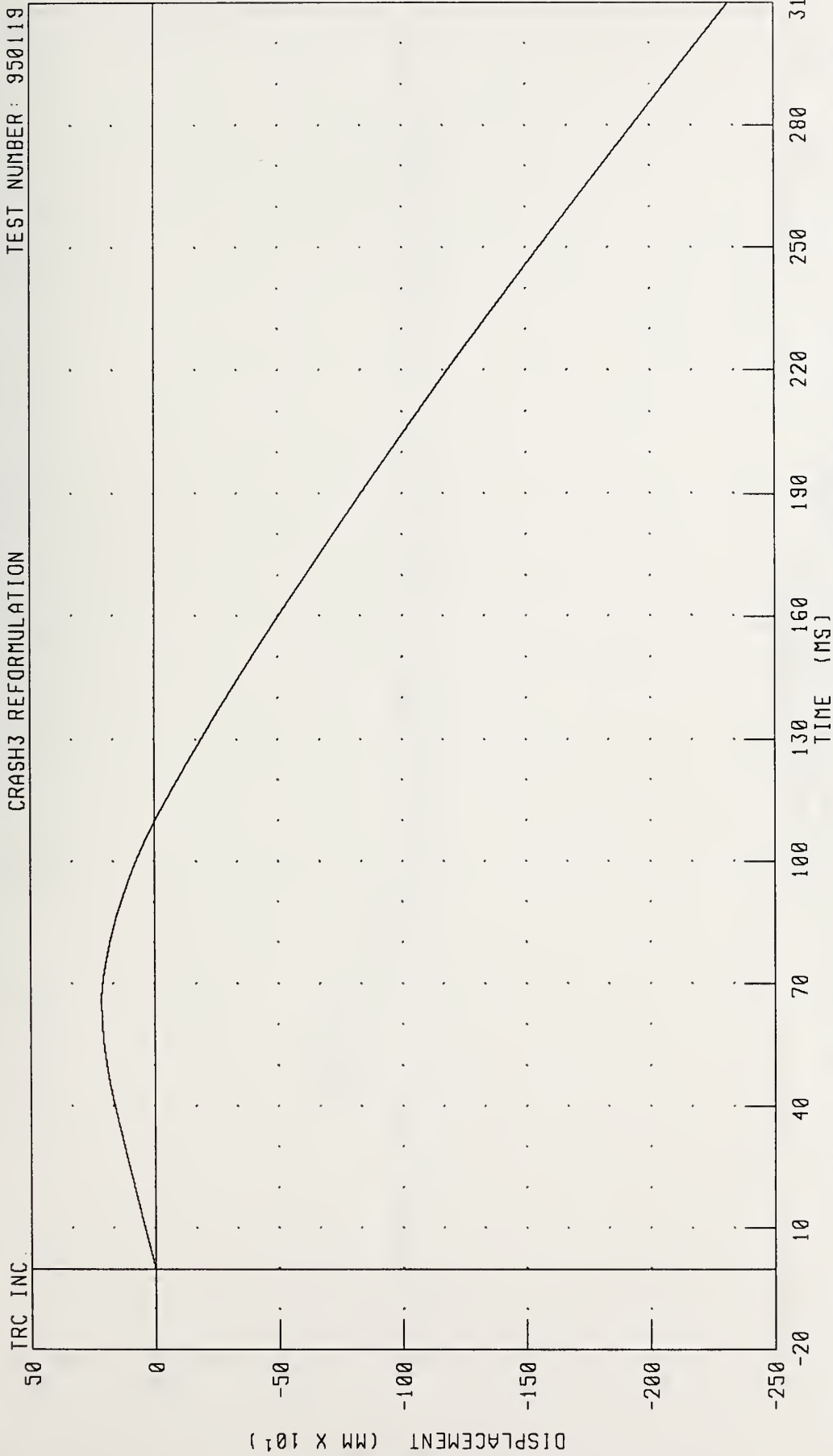


CHANNEL: VCGRV1 FILTER: CH CLASS 180

PEAK DATA: 15.00 KM/H @ 0.00 MS, -46.89 KM/H @ 310.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
VEHICLE CG RESULTANT DISPLACEMENT
CRASH3 REFORMULATION

TEST NUMBER: 950119



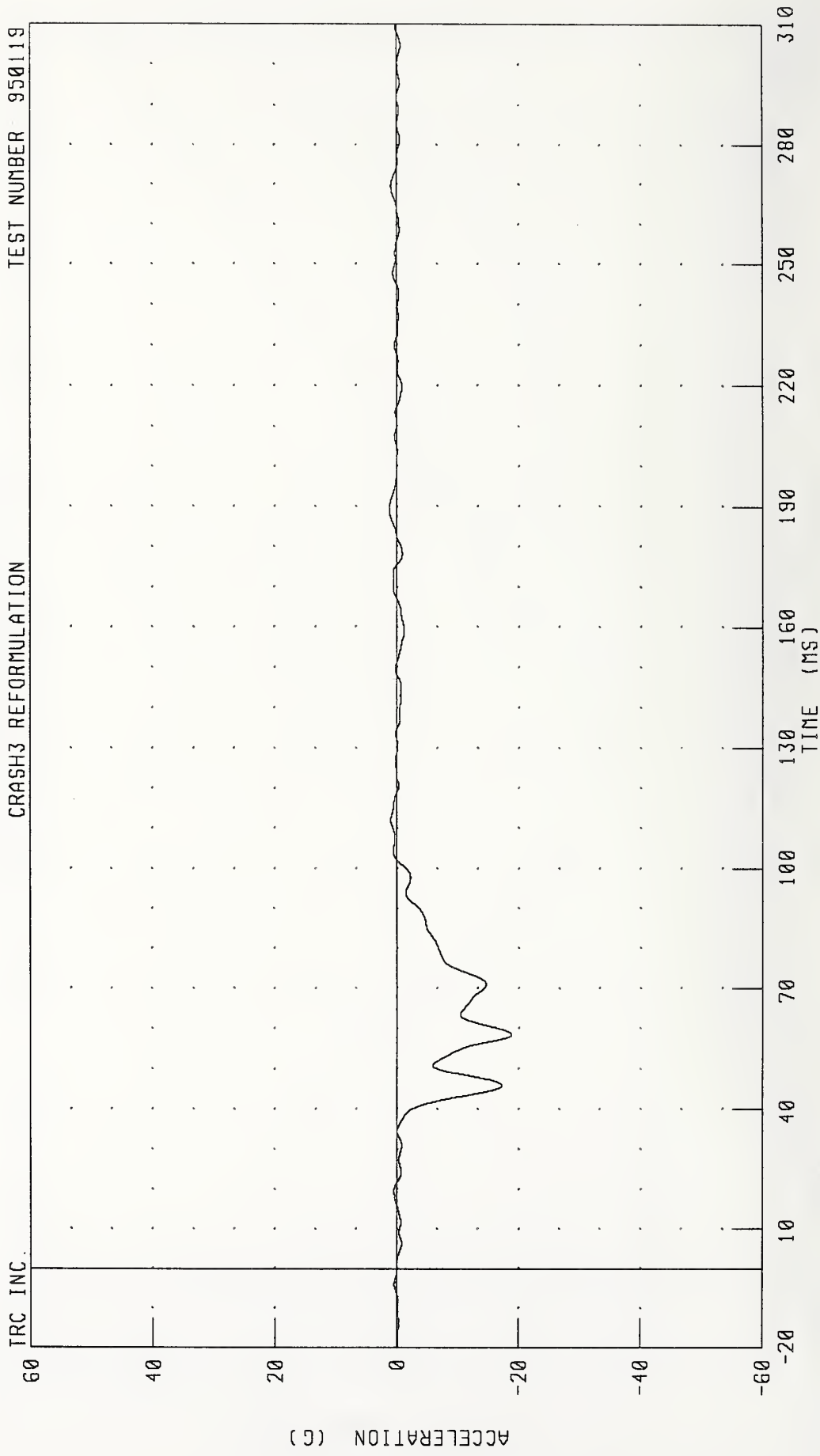
CHANNEL: VCGRD1 FILTER: CH. CLASS 180 PEAK DATA: 213 60 MM @ 66.16 MS; -2316 19 MM @ 310.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5

LEFT FRONT SILL X-AXIS ACCELERATION

CRASH3 REFORMULATION

TEST NUMBER 950119



CHANNEL: LFSXG1 FILTER: CH CLASS 60

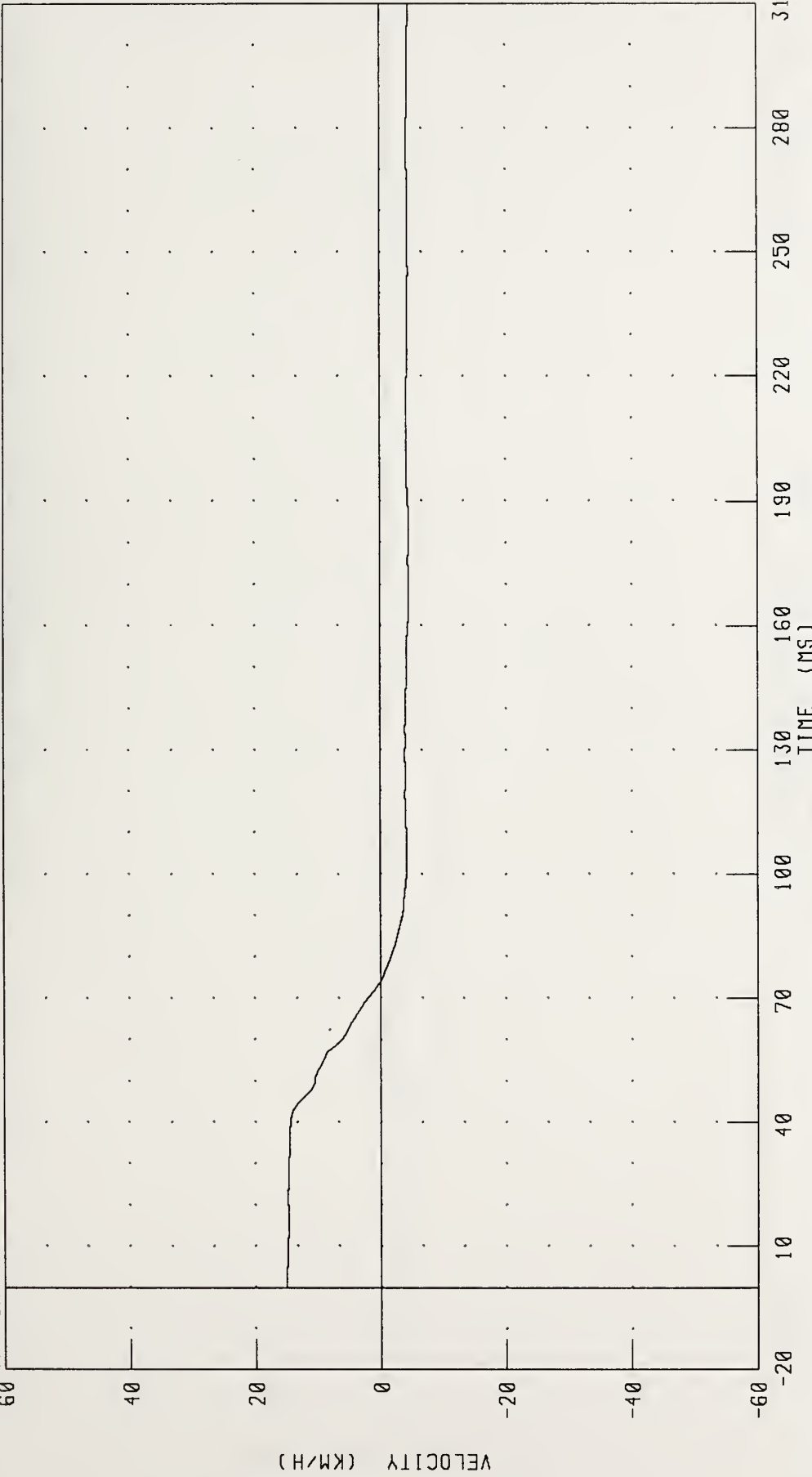
PEAK DATA: 1.27 G @ 189.36 MS; -18.84 G @ 58.48 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
LEFT FRONT SILL X-AXIS VELOCITY

TEST NUMBER 950119

CRASH3 REFORMULATION

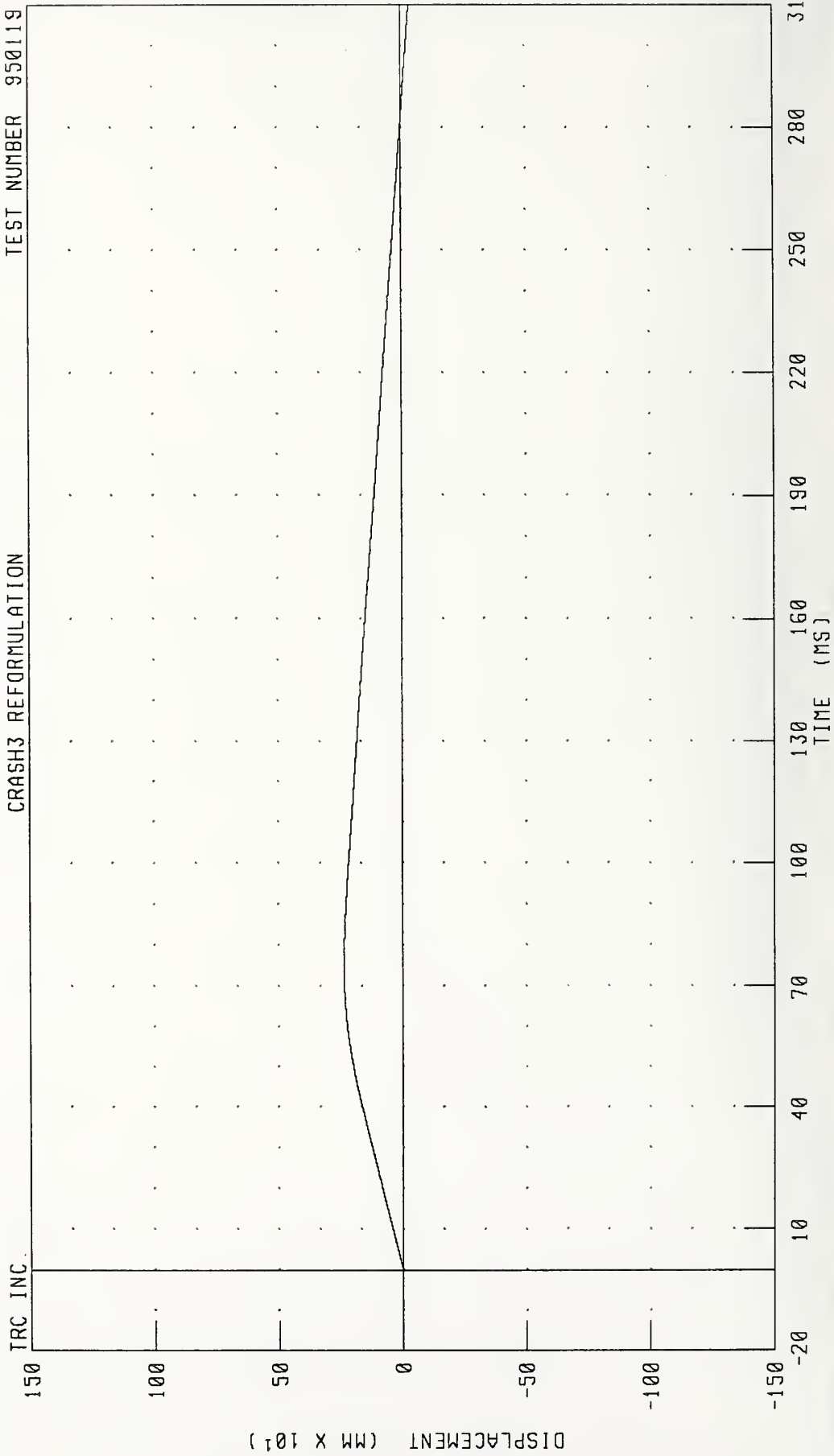
TRC INC



CHANNEL: LFSXV1 FILTER: CH CLASS 180 PEAK DATA: 15.01 KM/H @ 2.56 MS, -4.62 KM/H @ 181.60 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
LEFT FRONT SILL X-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER 950119



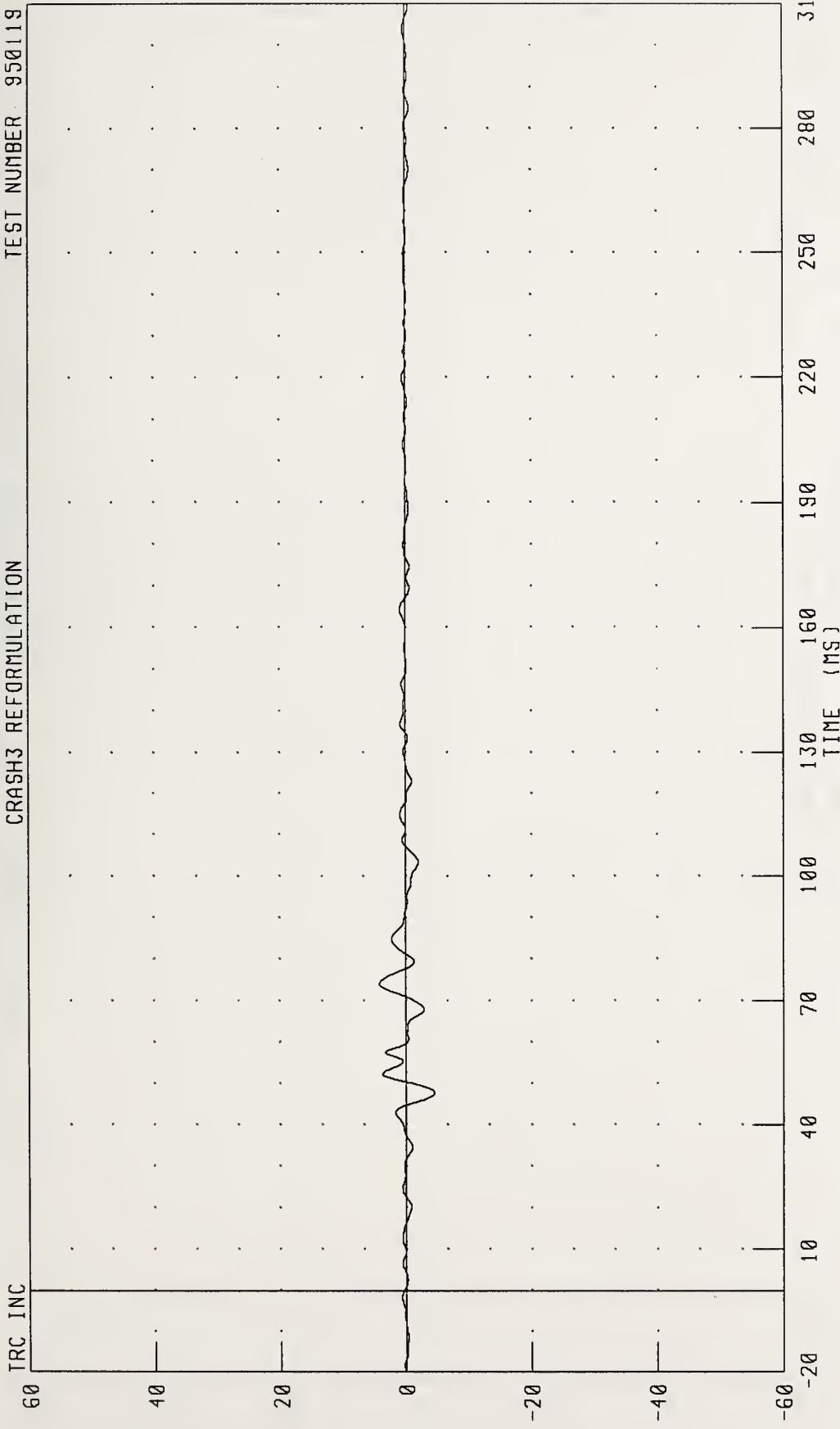
CHANNEL: LFSXD1 FILTER: CH CLASS 180

PEAK DATA: 237 41 MM @ 74 08 MS, -33 37 MM @ 310 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
LEFT FRONT SILL Y-AXIS ACCELERATION

CRASH3 REFORMULATION
TEST NUMBER 950119

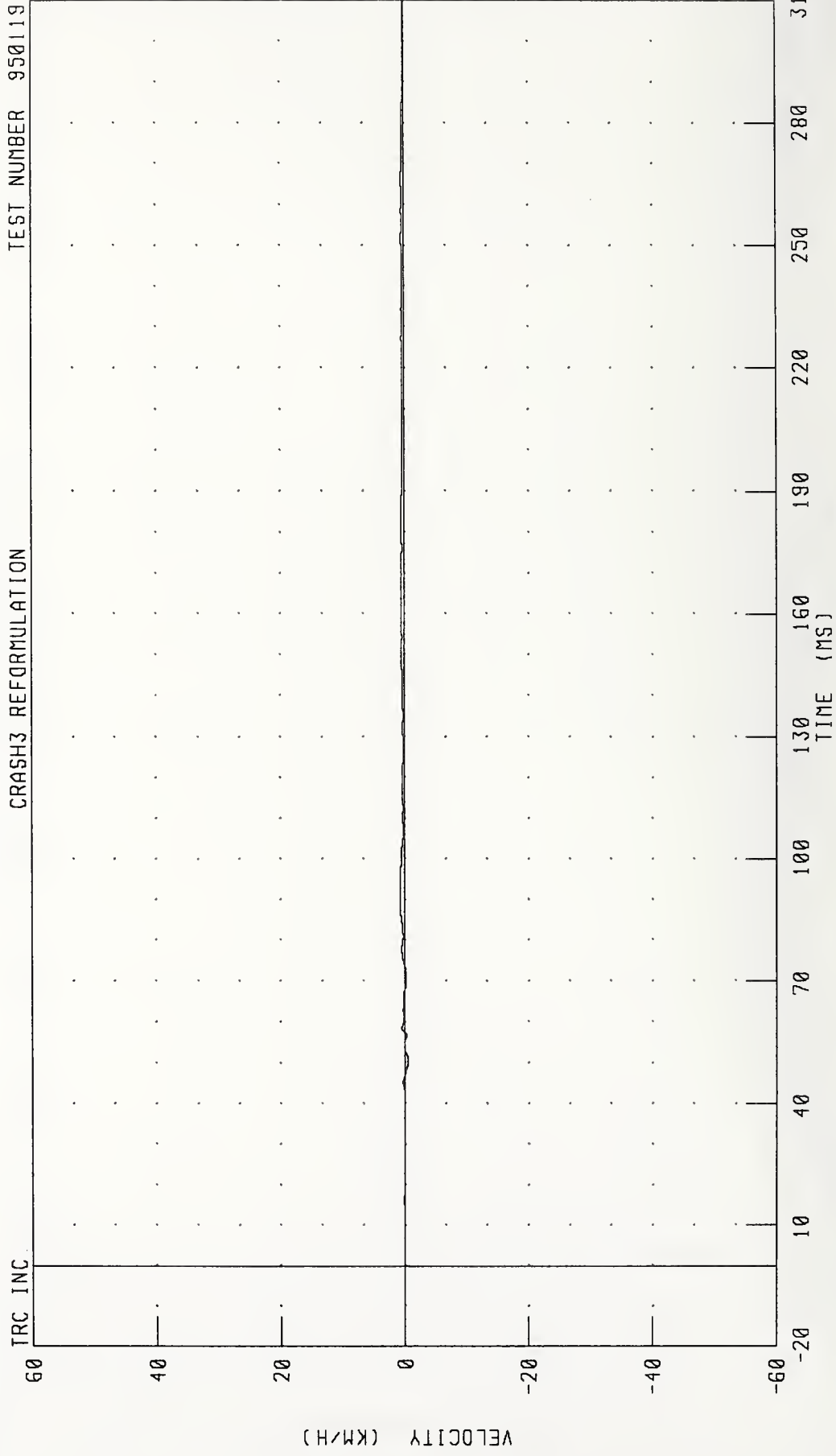
TRC INC



CHANNEL: LFSYG1 FILTER: CH. CLASS 60

PEAK DATA: 4.19 G @ 74.08 MS, -4.50 G @ 47.68 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
 LEFT FRONT SILL Y-AXIS VELOCITY



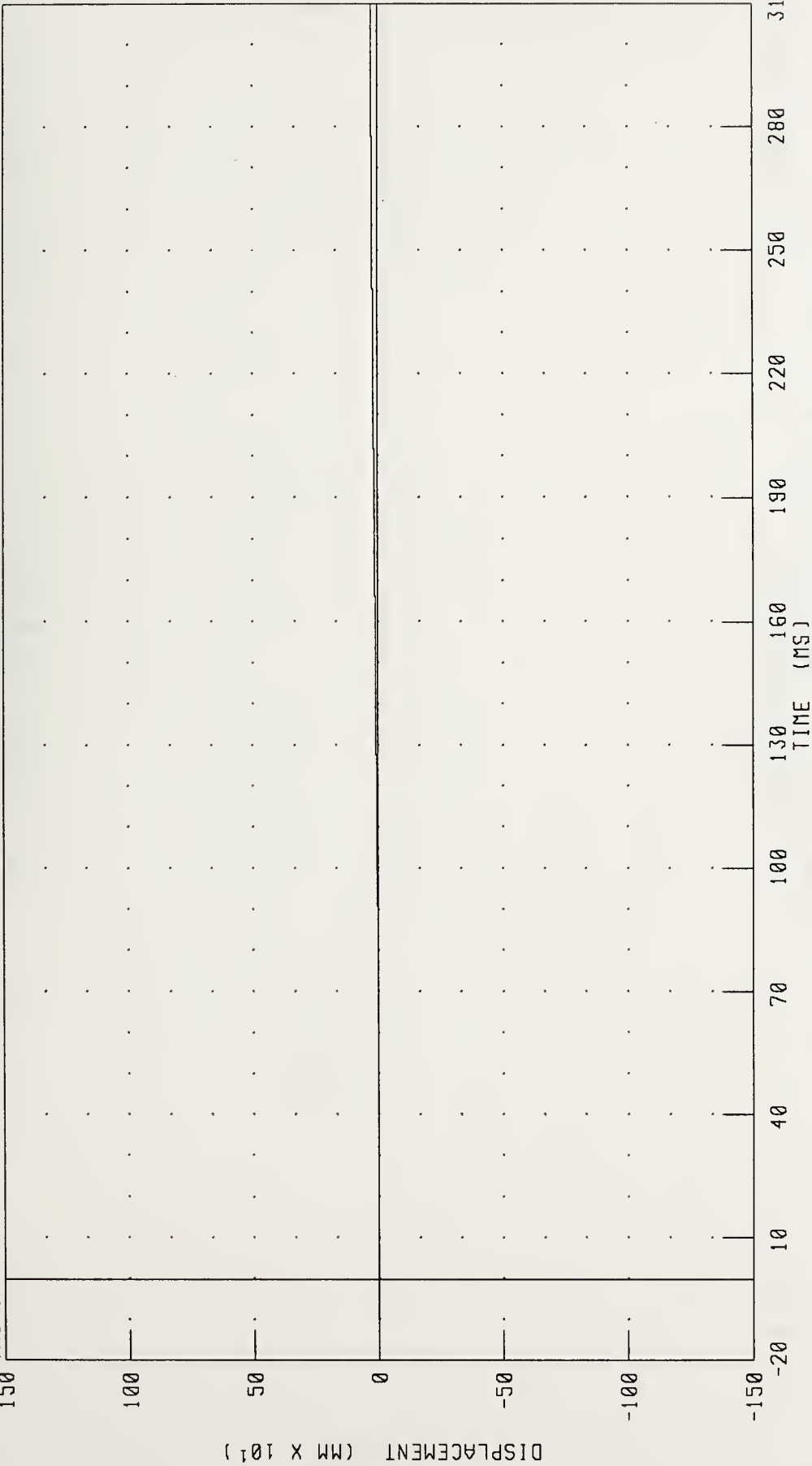
CHANNEL: LFSYV1 FILTER: CH CLASS 180
 PEAK DATA: 0.73 KM/H @ 91.84 MS, -0.57 KM/H @ 50.48 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
 LEFT FRONT SILL Y-AXIS DISPLACEMENT

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC

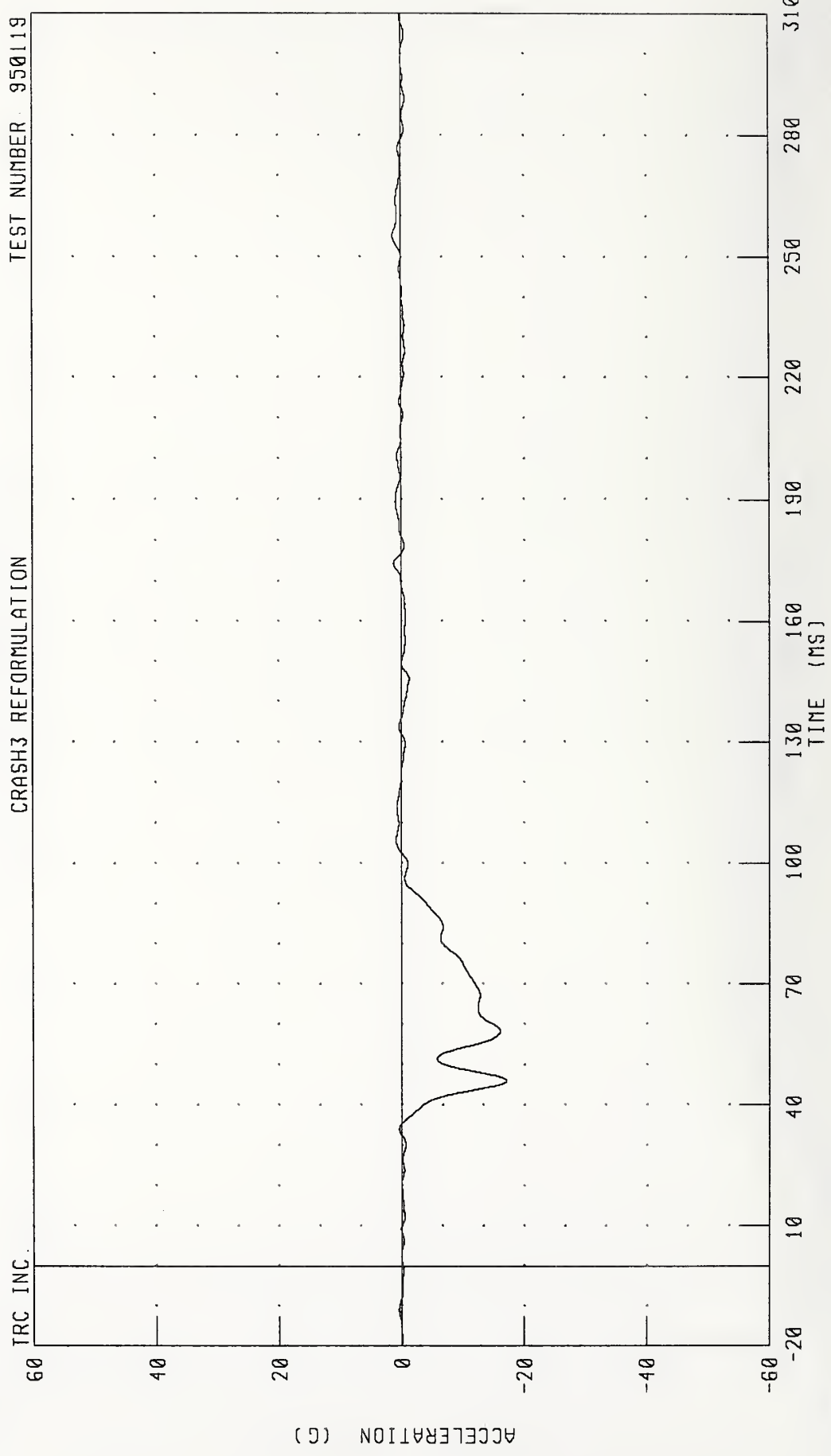


CHANNEL: LFSYD1 FILTER: CH CLASS 180

PEAK DATA: 25.44 MM @ 310.00 MS; -0.13 MM @ 57.36 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
RIGHT FRONT SILL X-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119



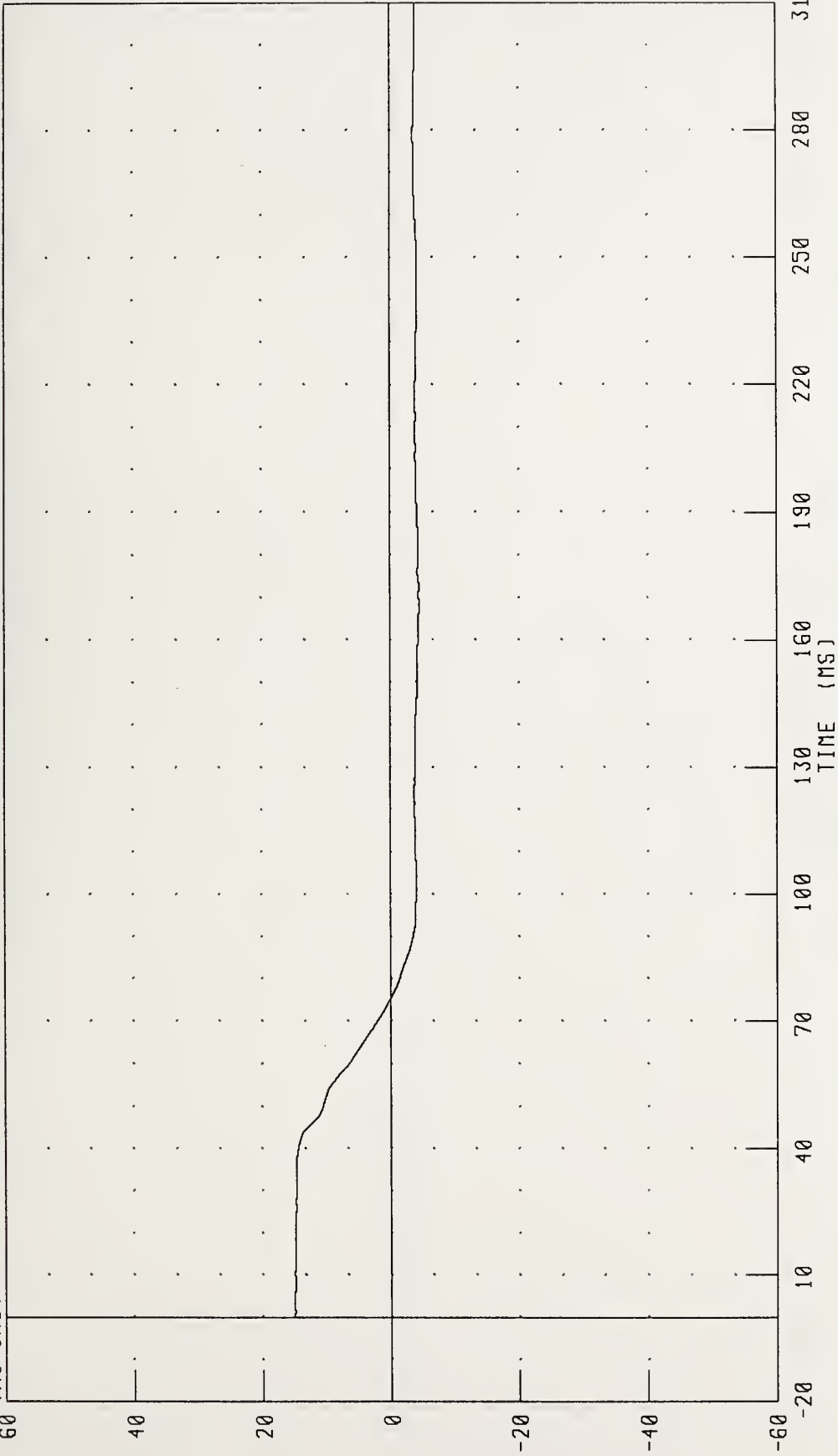
CHANNEL: RFSXG1 FILTER: CH. CLASS 60

PEAK DATA: 1.32 G @ 255.28 MS; -17.16 G @ 46.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
RIGHT FRONT SILL X-AXIS VELOCITY

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC.



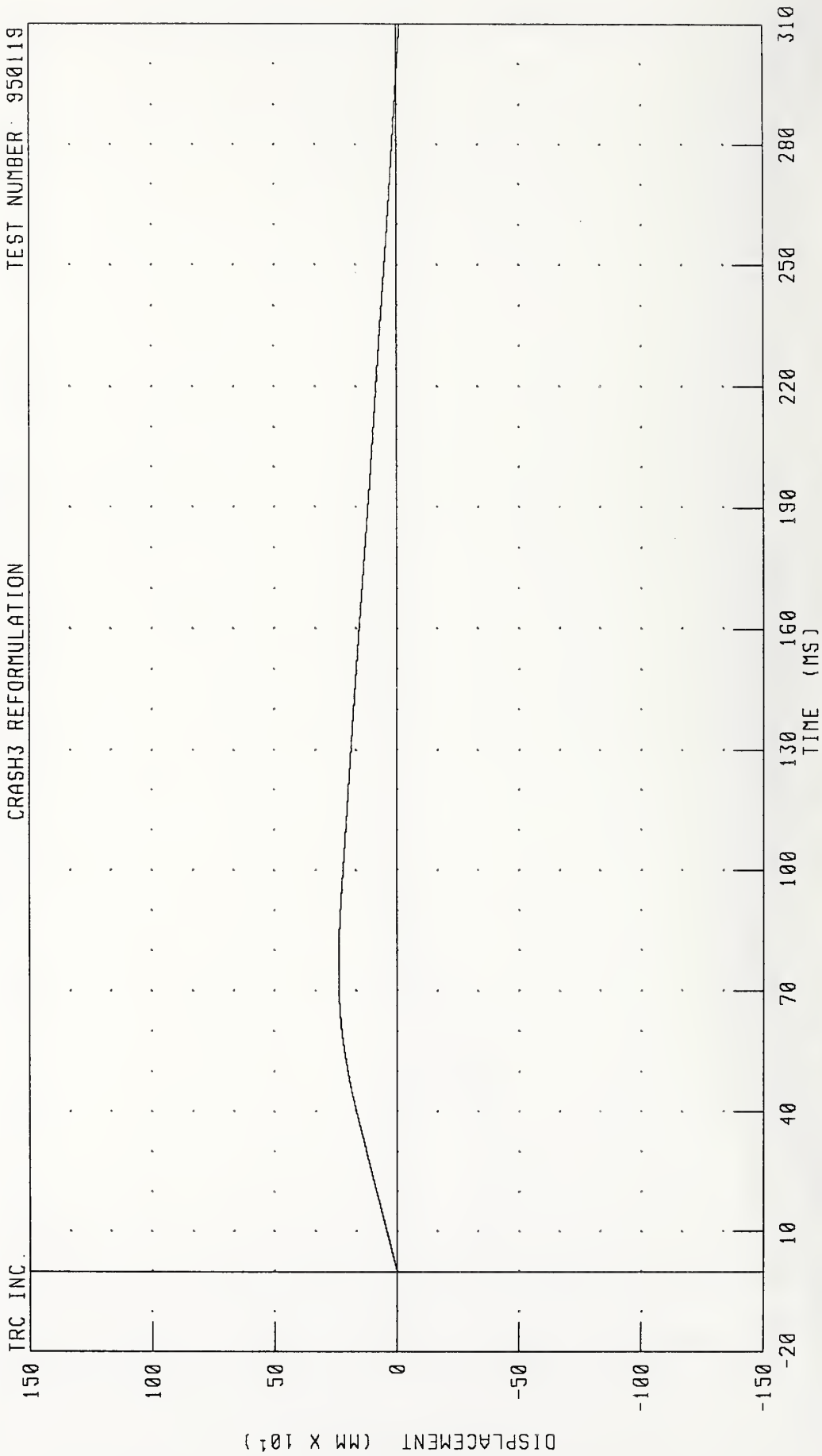
CHANNEL: RFSXV1 FILTER: CH CLASS 180

PEAK DATA: 15.02 KM/H @ 4.88 MS; -4.50 KM/H @ 172.64 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
RIGHT FRONT SILL X-AXIS DISPLACEMENT

TEST NUMBER: 950119

CRASH3 REFORMULATION



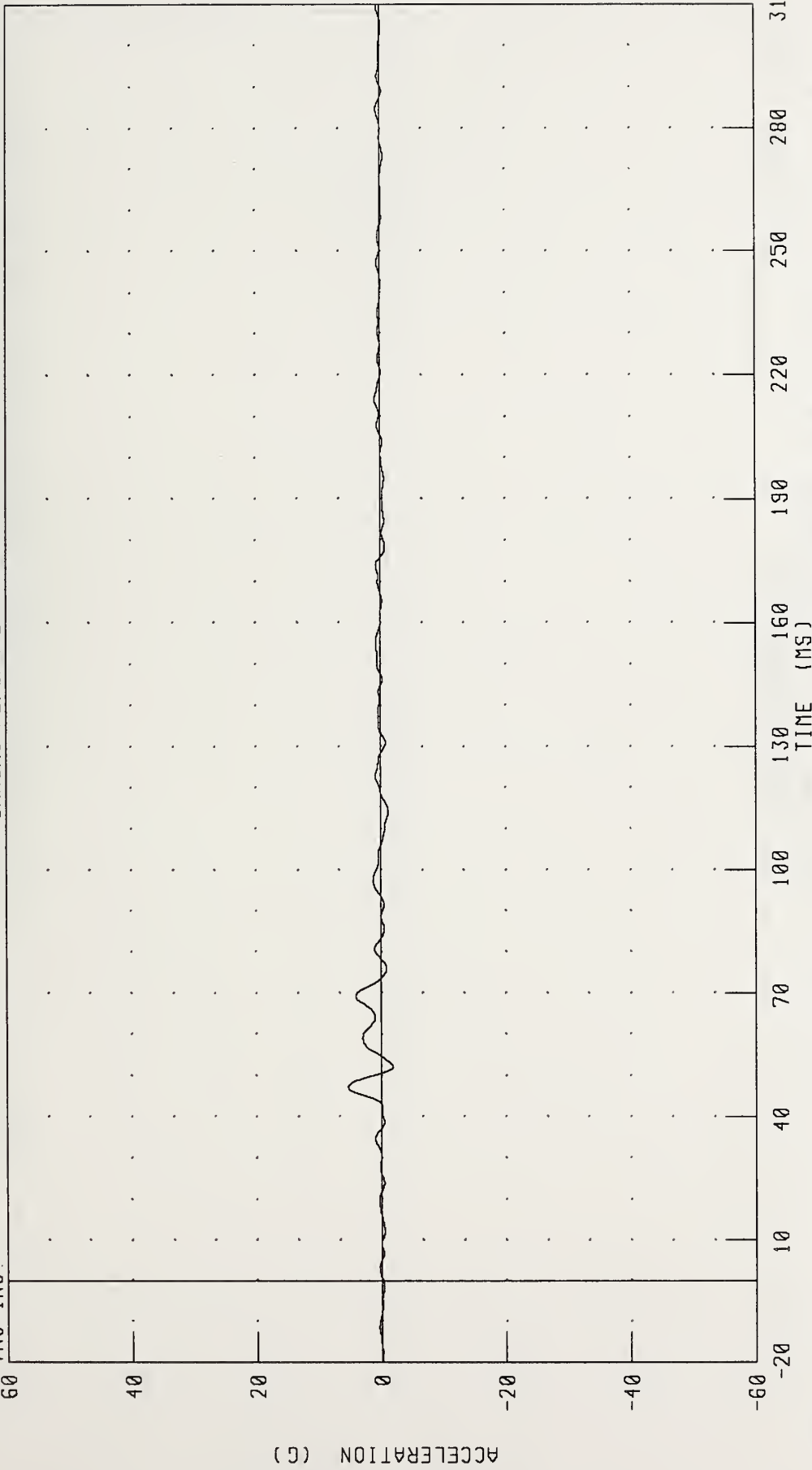
CHANNEL: RFSXD1 FILTER: CH CLASS 180 PEAK DATA: 239.08 MM @ 75.44 MS, -13.73 MM @ 310.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
RIGHT FRONT SILL Y-AXIS ACCELERATION

TEST NUMBER 950119

CRASH3 REFORMULATION

TRC INC.

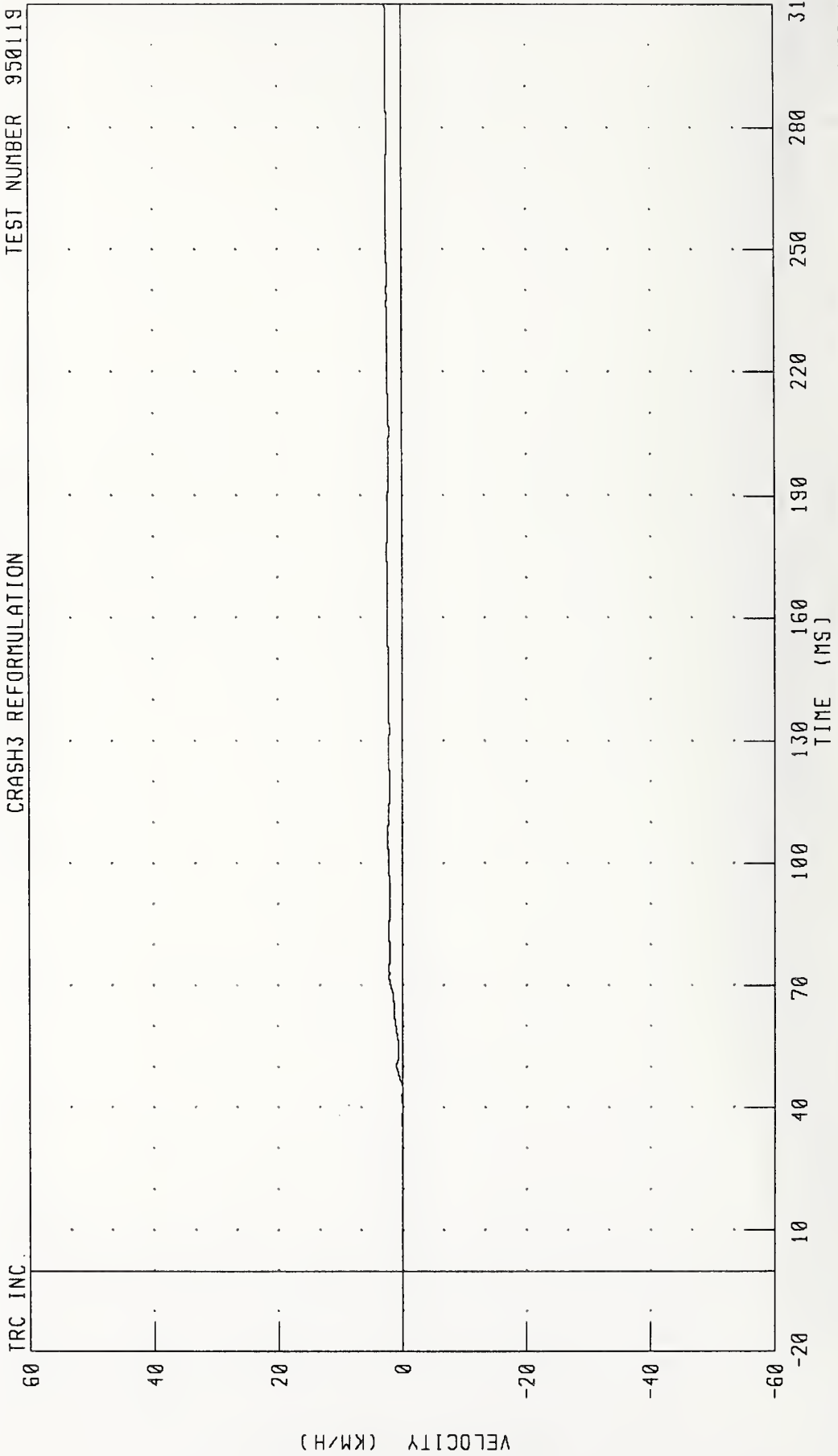


CHANNEL RFSYGI FILTER CH CLASS 60

PEAK DATA: 5.35 G @ 47.20 MS, -1.83 G @ 52.08 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
 RIGHT FRONT SILL Y-AXIS VELOCITY

TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119



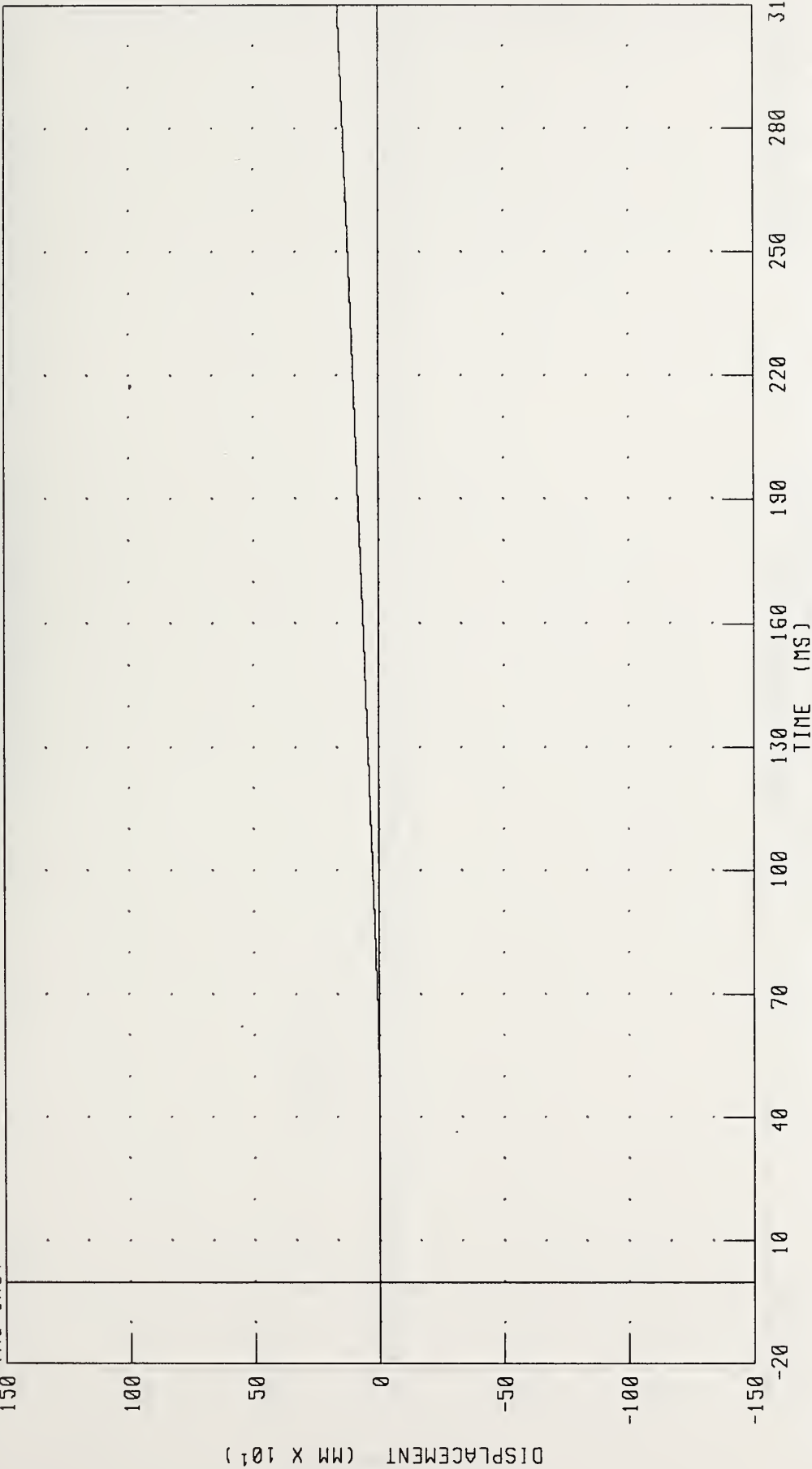
CHANNEL: RFSYV1 FILTER: CH CLASS 180

PEAK DATA: 2.66 KM/H @ 310.00 MS, -0.04 KM/H @ 25.76 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
RIGHT FRONT SILL Y-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER 950119

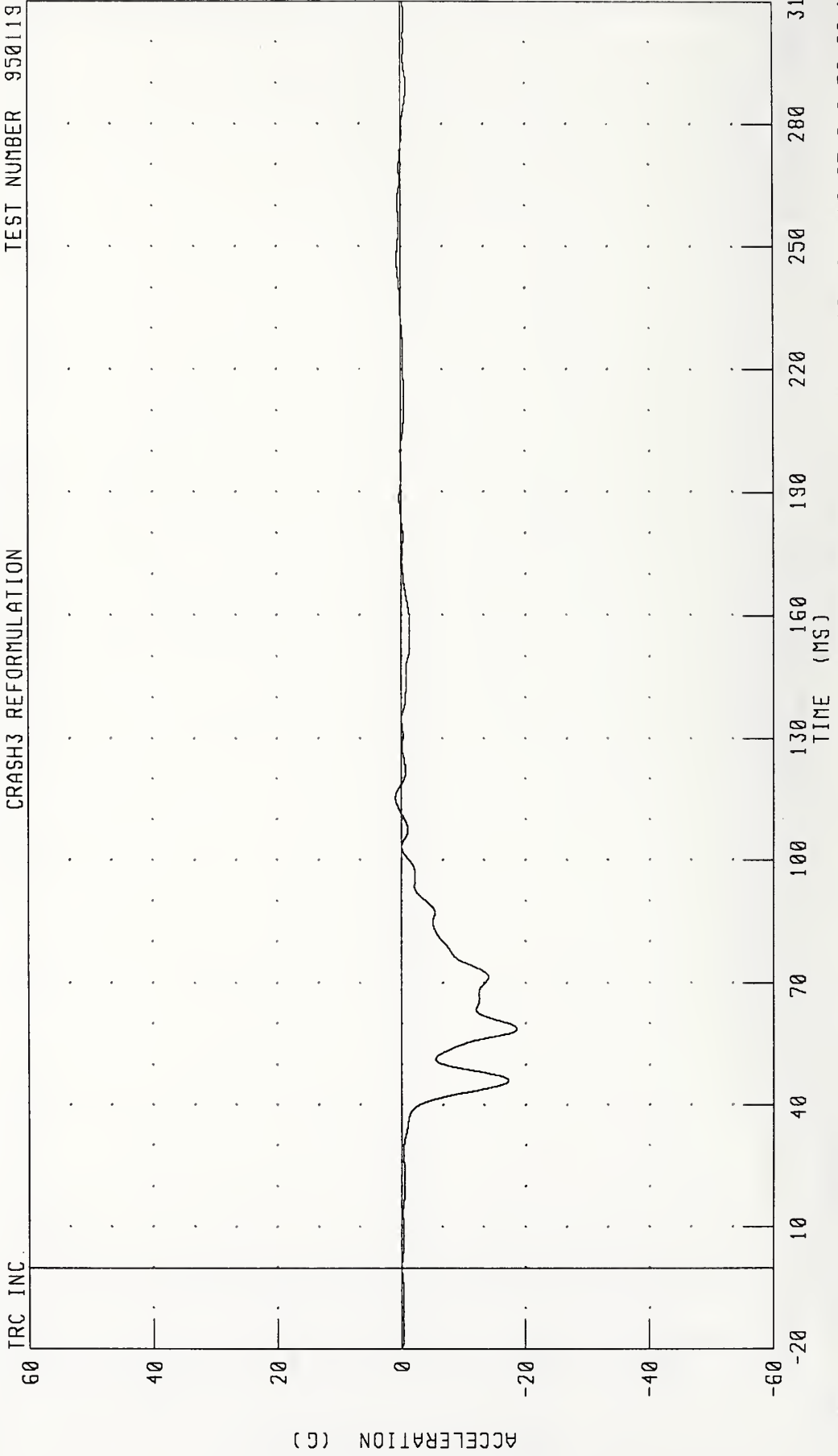
TRC INC.



CHANNEL: RFSY01 FILTER: CH. CLASS 180 PEAK DATA: 163.02 MM @ 310 00 MS, 0 00 MM @ 0.16 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
LEFT REAR SEAT X-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL: TLRXG1 FILTER: CH. CLASS 60

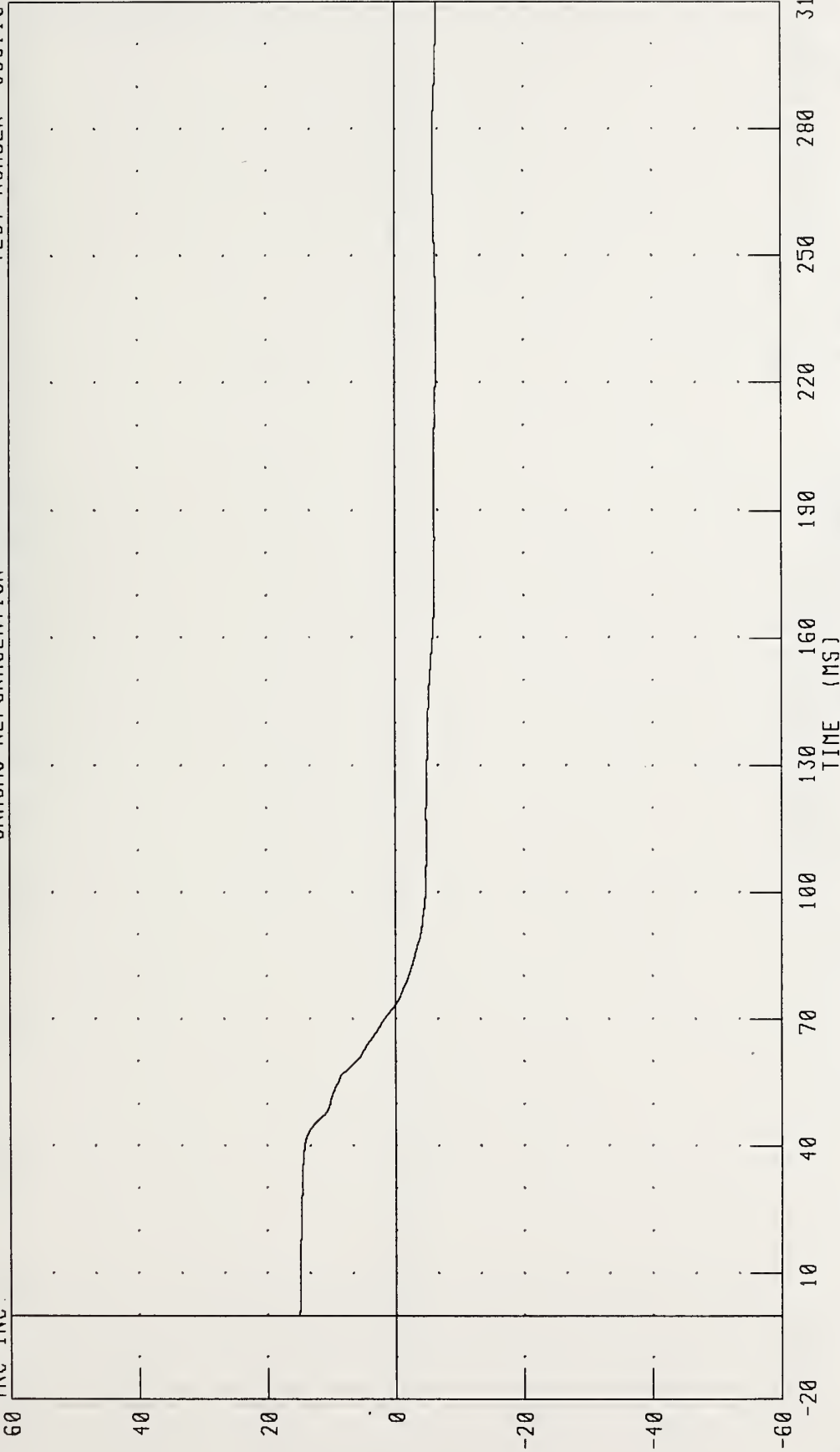
PEAK DATA: 0.95 G @ 115.36 MS, -18.65 G @ 58.88 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
LEFT REAR SEAT X-AXIS VELOCITY

TEST NUMBER 950119

CRASH3 REFORMULATION

TRC INC

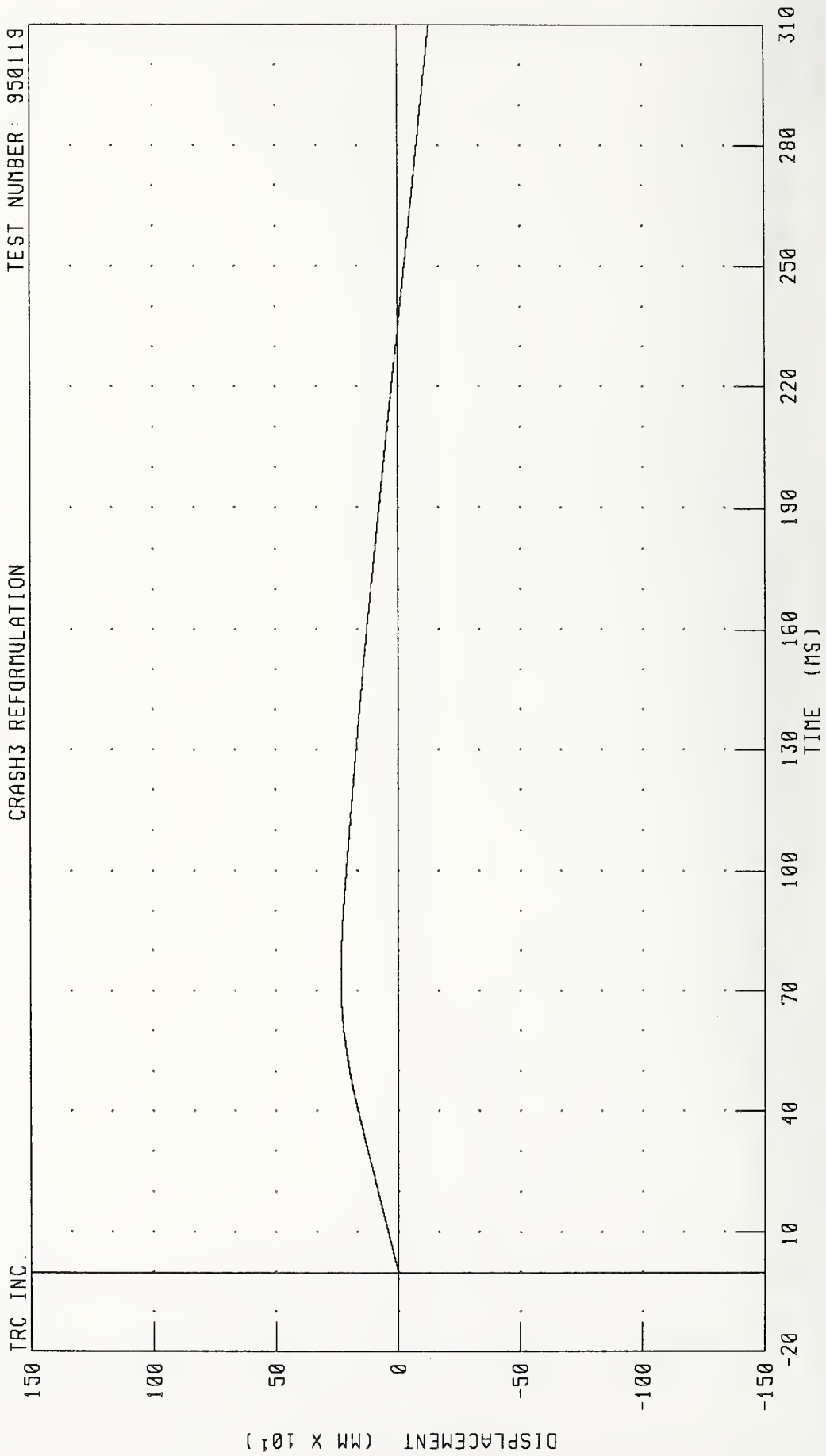


CHANNEL: TLRXV1 FILTER: CH CLASS 180 PEAK DATA: 15.00 KM/H @ 0.24 MS; -6.49 KM/H @ 310.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
LEFT REAR SEAT X-AXIS DISPLACEMENT

TEST NUMBER: 950119

CRASH3 REFORMULATION



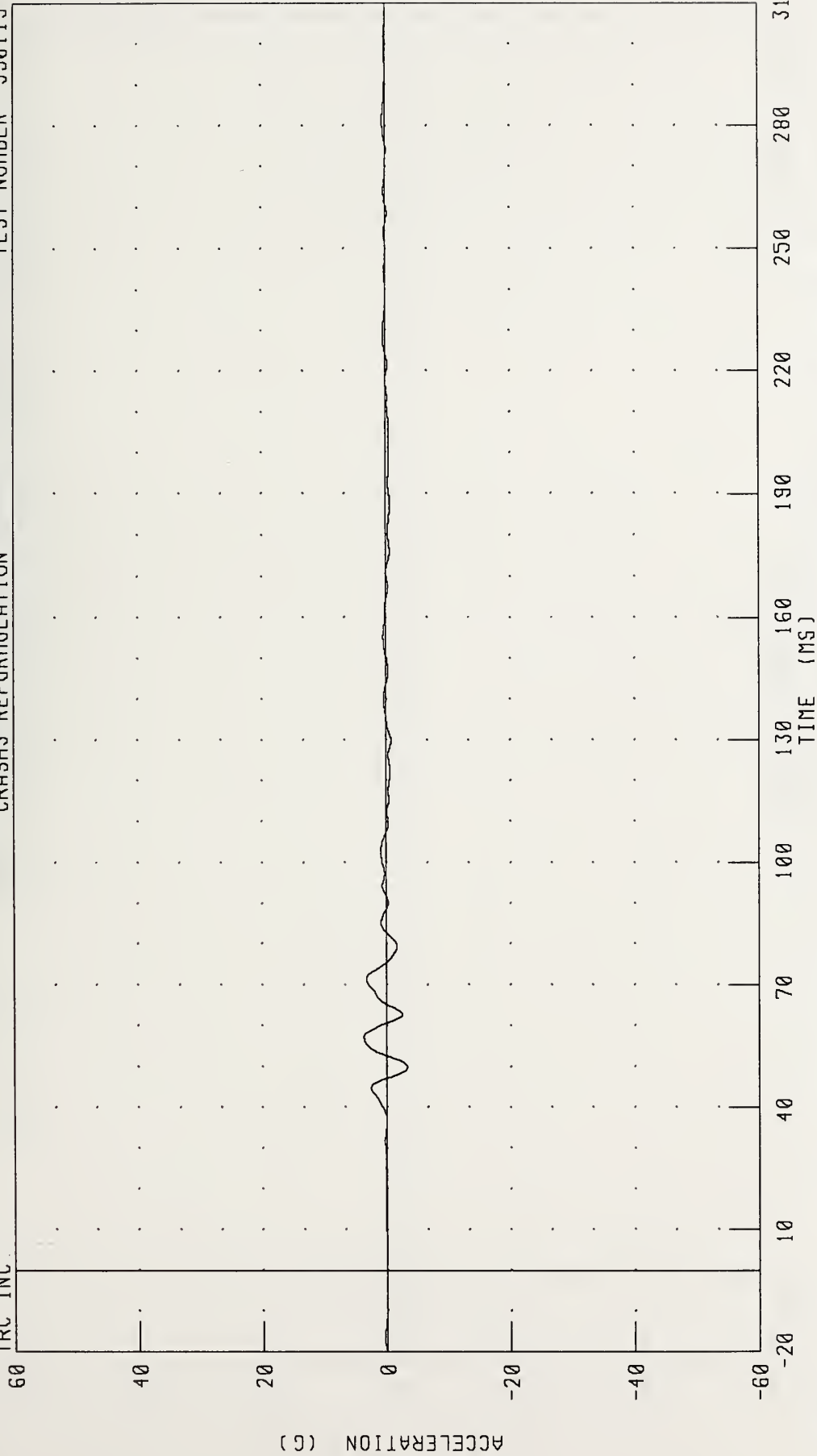
CHANNEL: TLRX01 FILTER: CH. CLASS 180

PEAK DATA: 234.78 MM @ 73.44 MS, -129.97 MM @ 310.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
LEFT REAR SEAT Y-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC



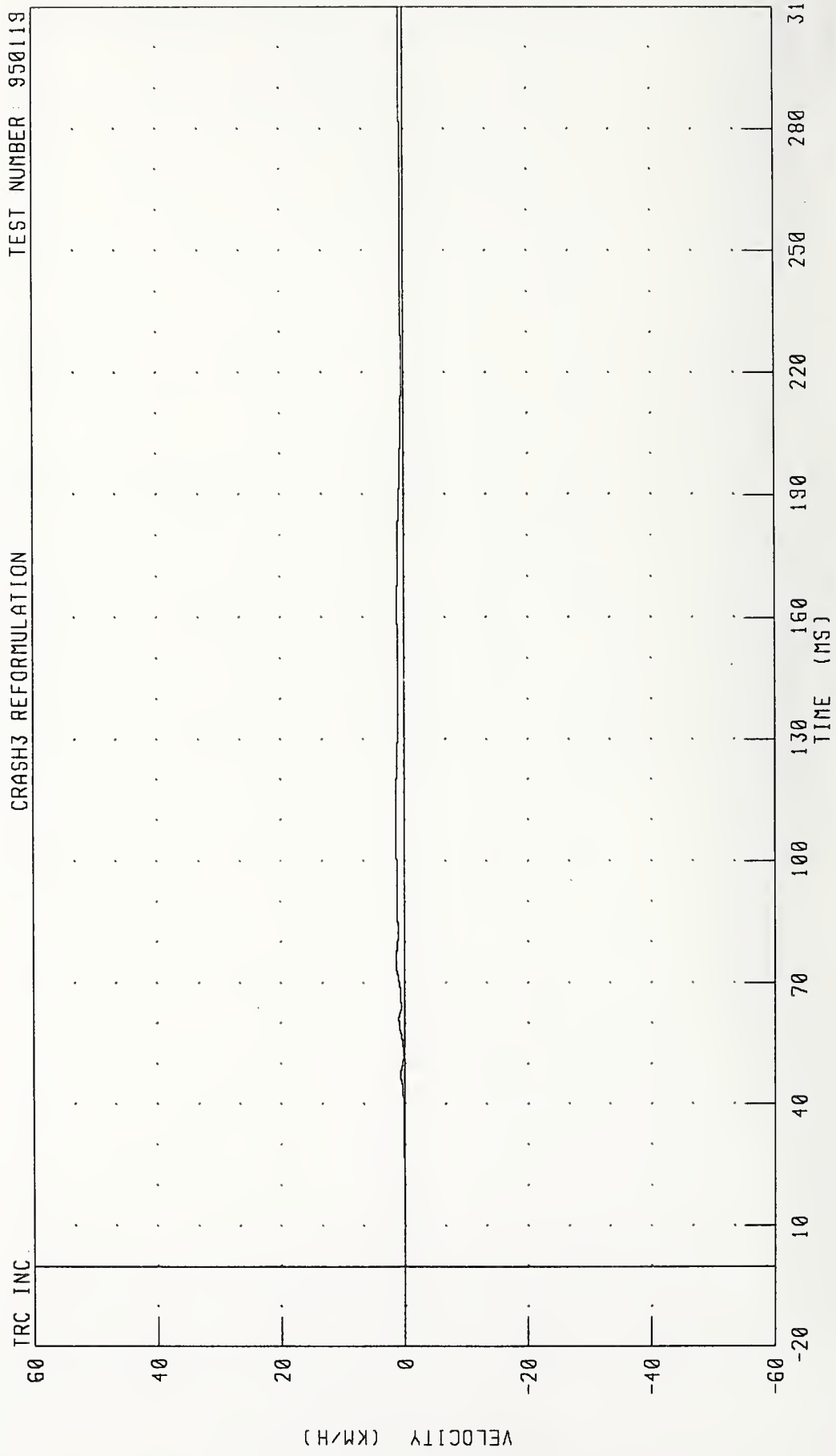
CHANNEL: TLRYG1 FILTER: CH CLASS: 60

PEAK DATA: 3.66 G @ 57.20 MS; -3.32 G @ 49.84 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
 LEFT REAR SEAT Y-AXIS VELOCITY

TEST NUMBER: 950119

CRASH3 REFORMULATION



CHANNEL: TLRV1 FILTER: CH CLASS 180

PEAK DATA: 1.44 KM/H @ 107.84 MS, -0.01 KM/H @ 7.20 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
 LEFT REAR SEAT Y-AXIS DISPLACEMENT

TEST NUMBER 950119

CRASH3 REFORMULATION

TRC INC.



CHANNEL TLRD1 FILTER: CH. CLASS 180

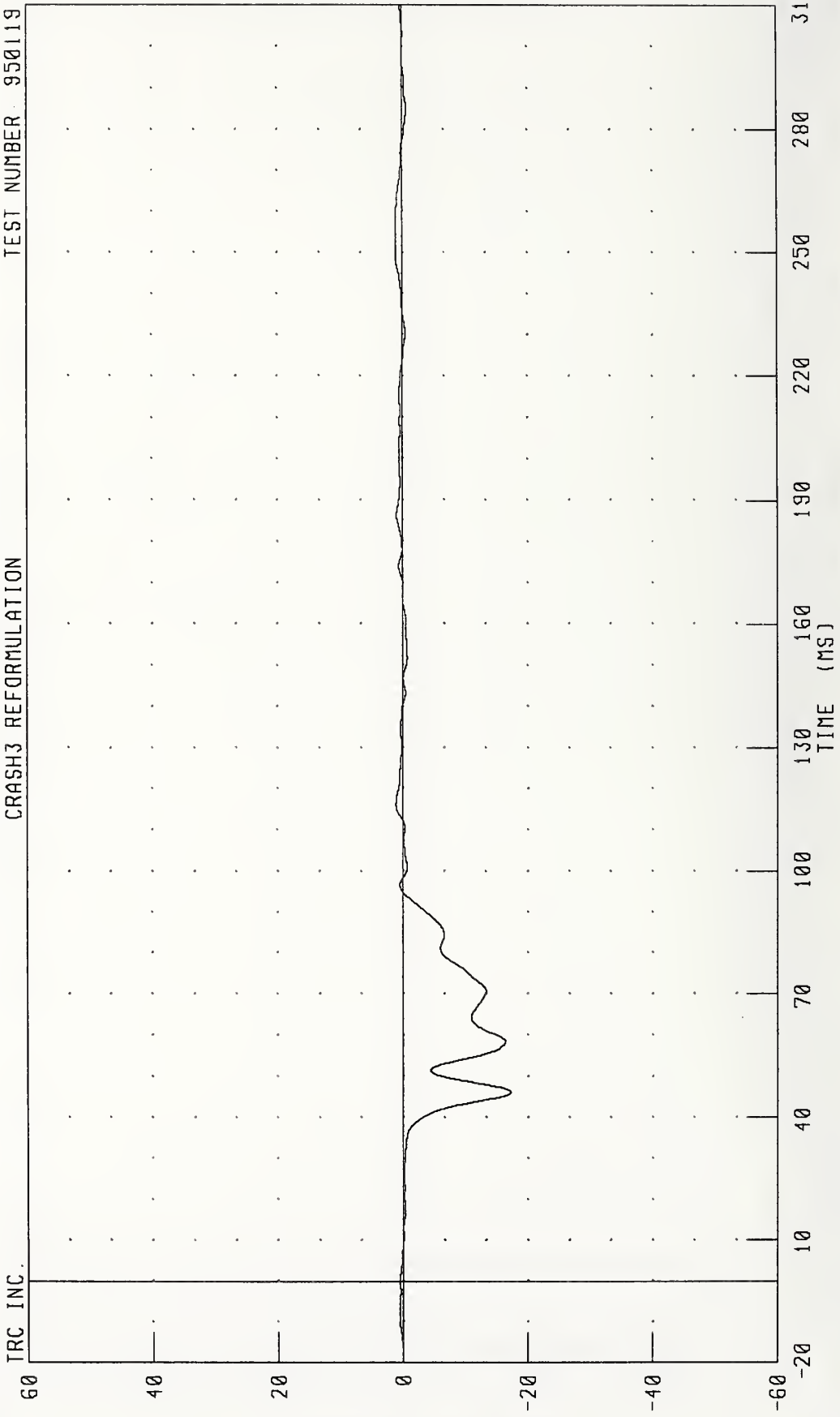
PEAK DATA: 62.02 MM @ 310.00 MS, 0.00 MM @ 8.48 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
RIGHT REAR SEAT X-AXIS ACCELERATION

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC.



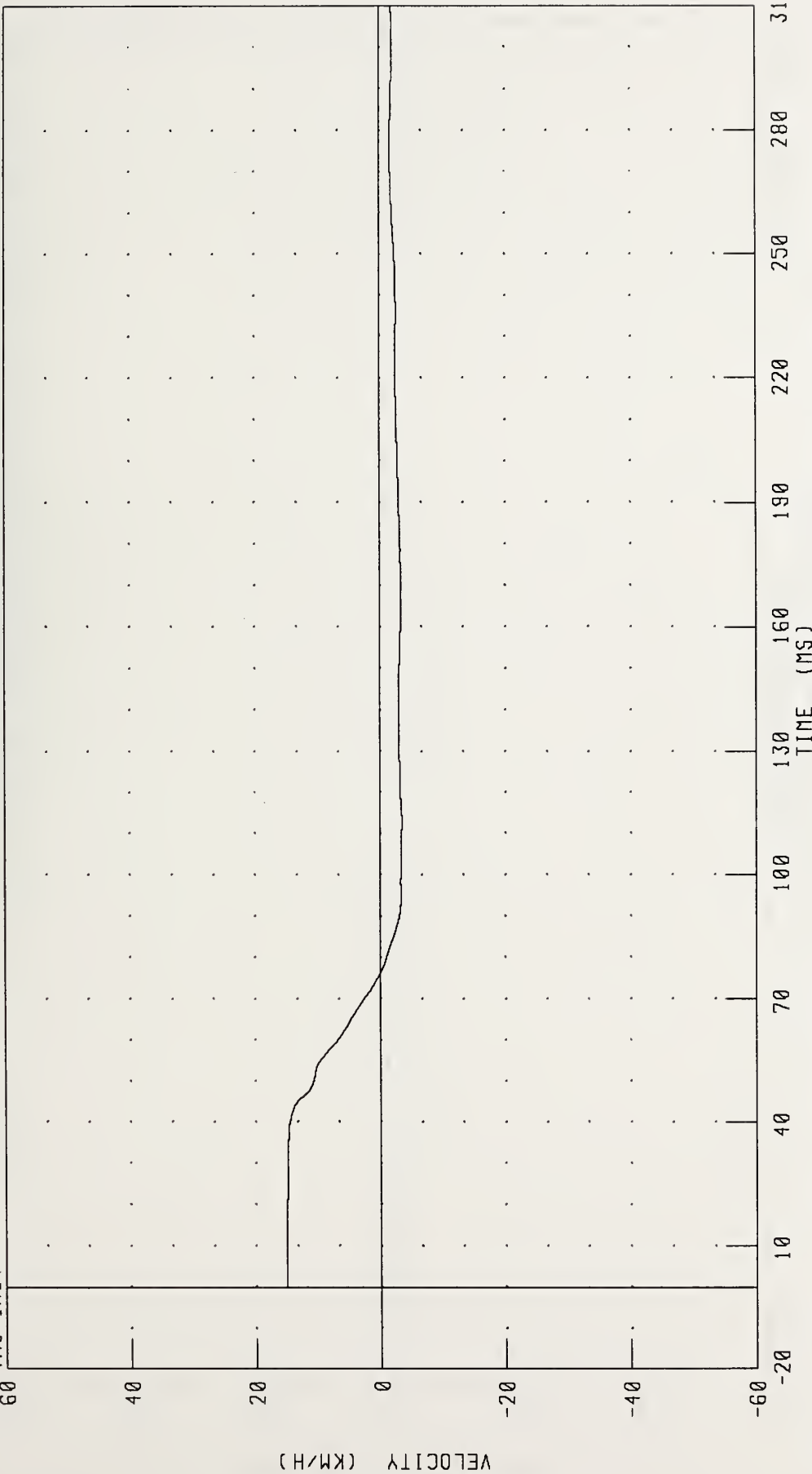
CHANNEL: TRRXG1 FILTER: CH CLASS 60

PEAK DATA: 1.12 G @ 116.16 MS, -17.26 G @ 46.08 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
RIGHT REAR SEAT X-AXIS VELOCITY

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC.



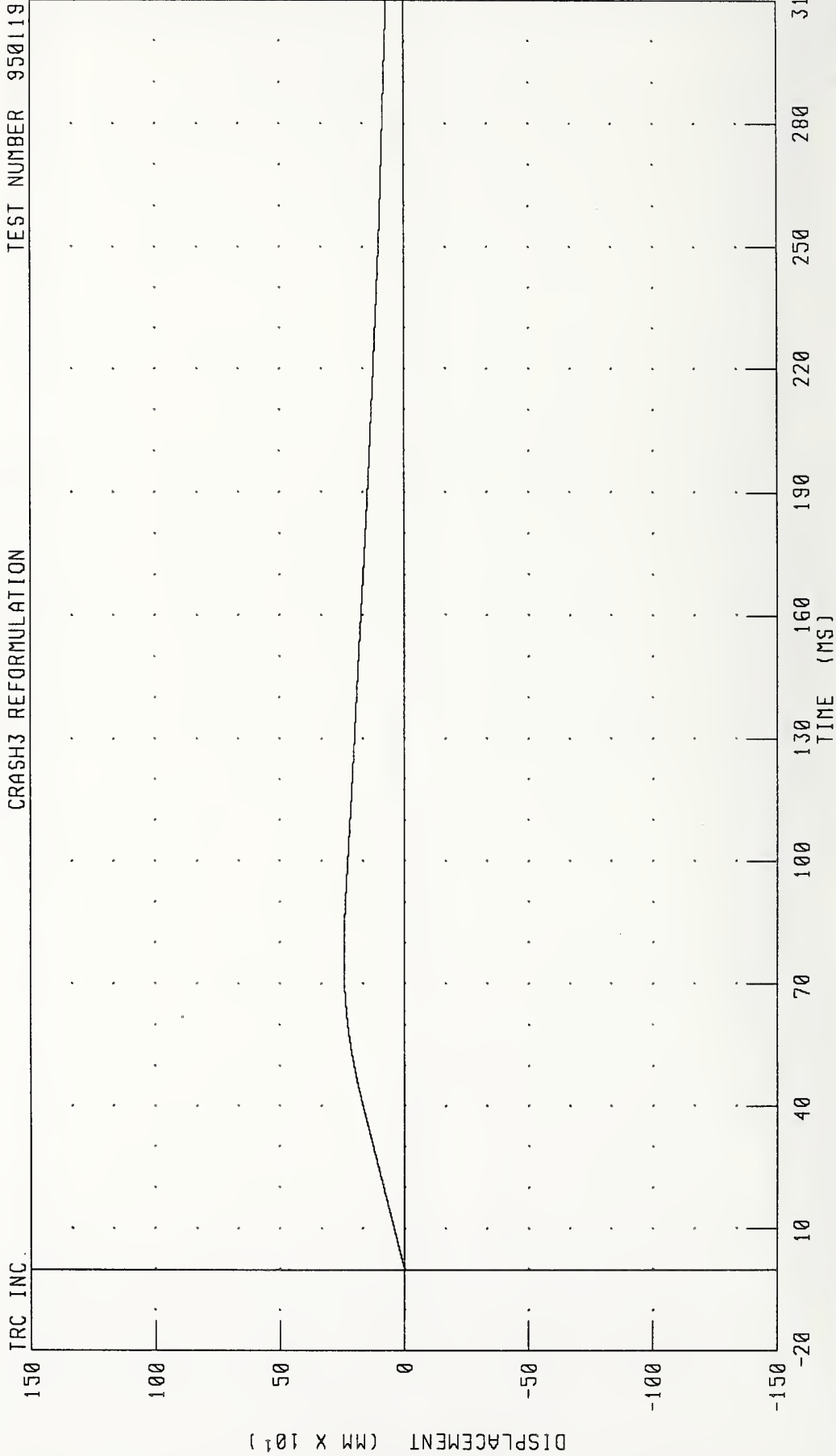
CHANNEL TRRXV1 FILTER CH CLASS 180 PEAK DATA: 15.08 KM/H @ 9.60 MS, -3.49 KM/H @ 112.64 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5

RIGHT REAR SEAT X-AXIS DISPLACEMENT

CRASH3 REFORMULATION

TEST NUMBER 950119



CHANNEL: TRRXD1 FILTER: CH. CLASS 180

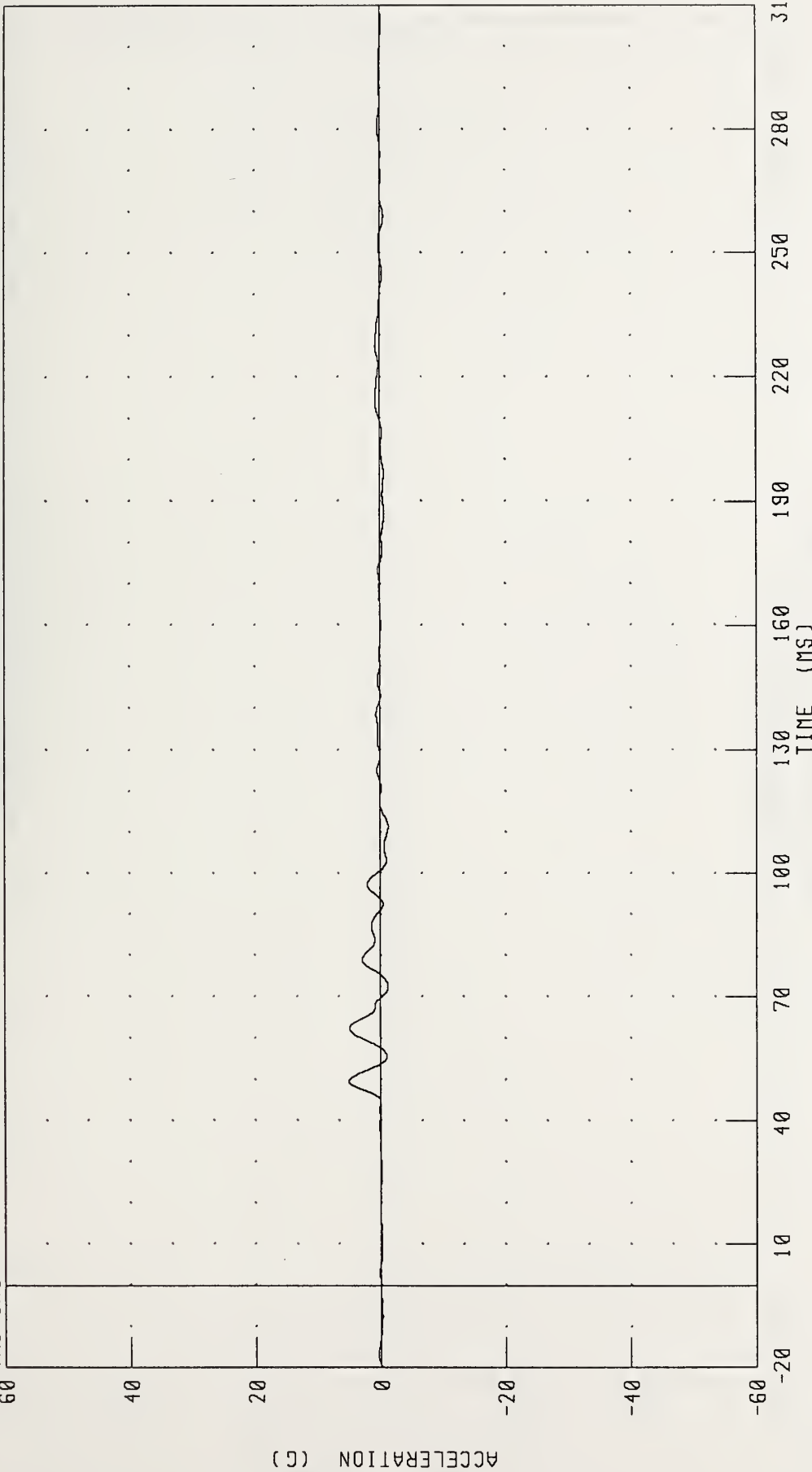
PEAK DATA: 243.49 MM @ 76.32 MS; 0 00 MM @ 0 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
RIGHT REAR SEAT Y-AXIS ACCELERATION

TEST NUMBER 950119

CRASH3 REFORMULATION

TRC INC



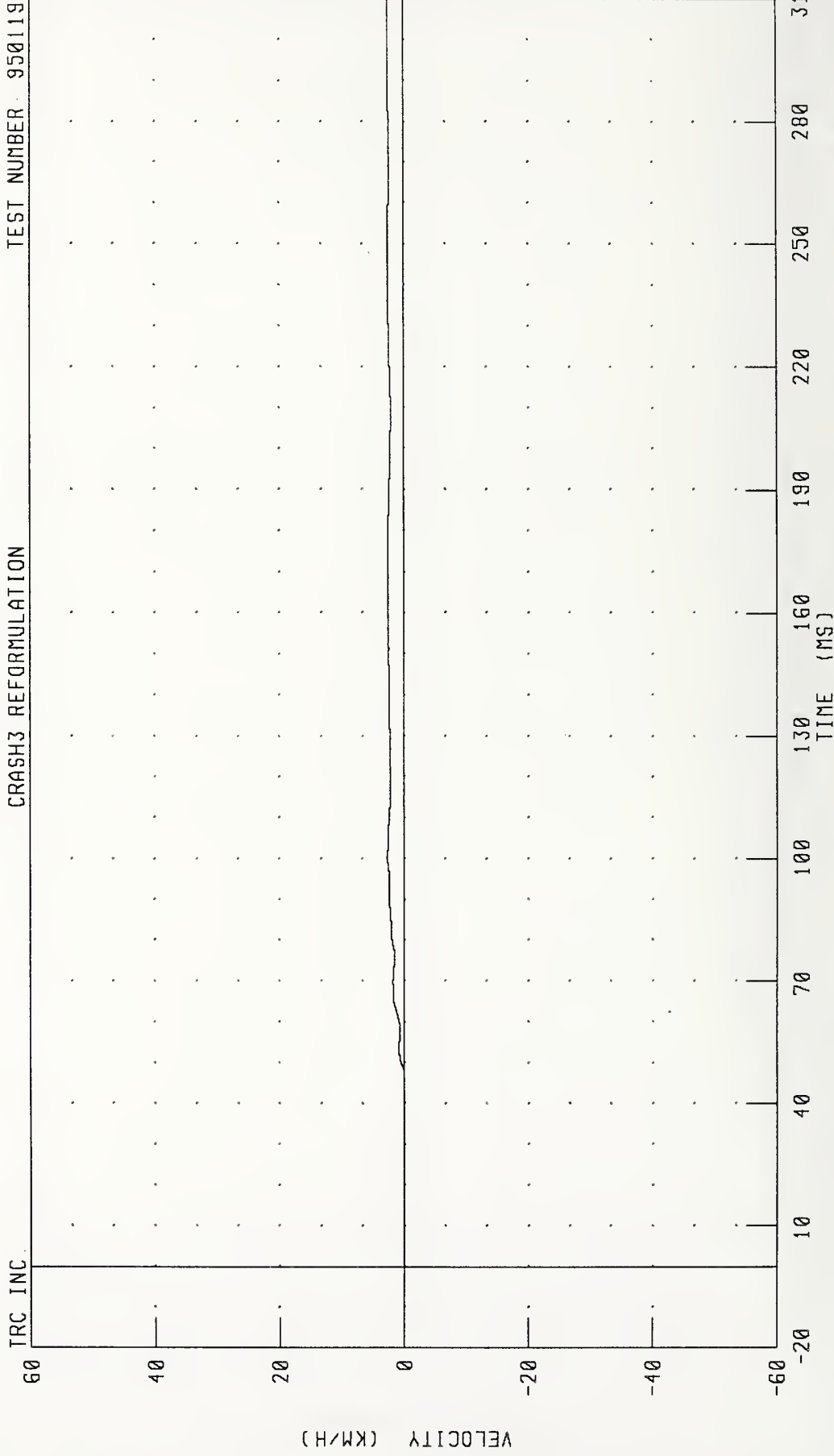
CHANNEL: TRRYG1 FILTER: CH CLASS 60 PEAK DATA: 5.10 G @ 49.52 MS, -1.29 G @ 111.44 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5

RIGHT REAR SEAT Y-AXIS VELOCITY

CRASH3 REFORMULATION

TEST NUMBER 950119

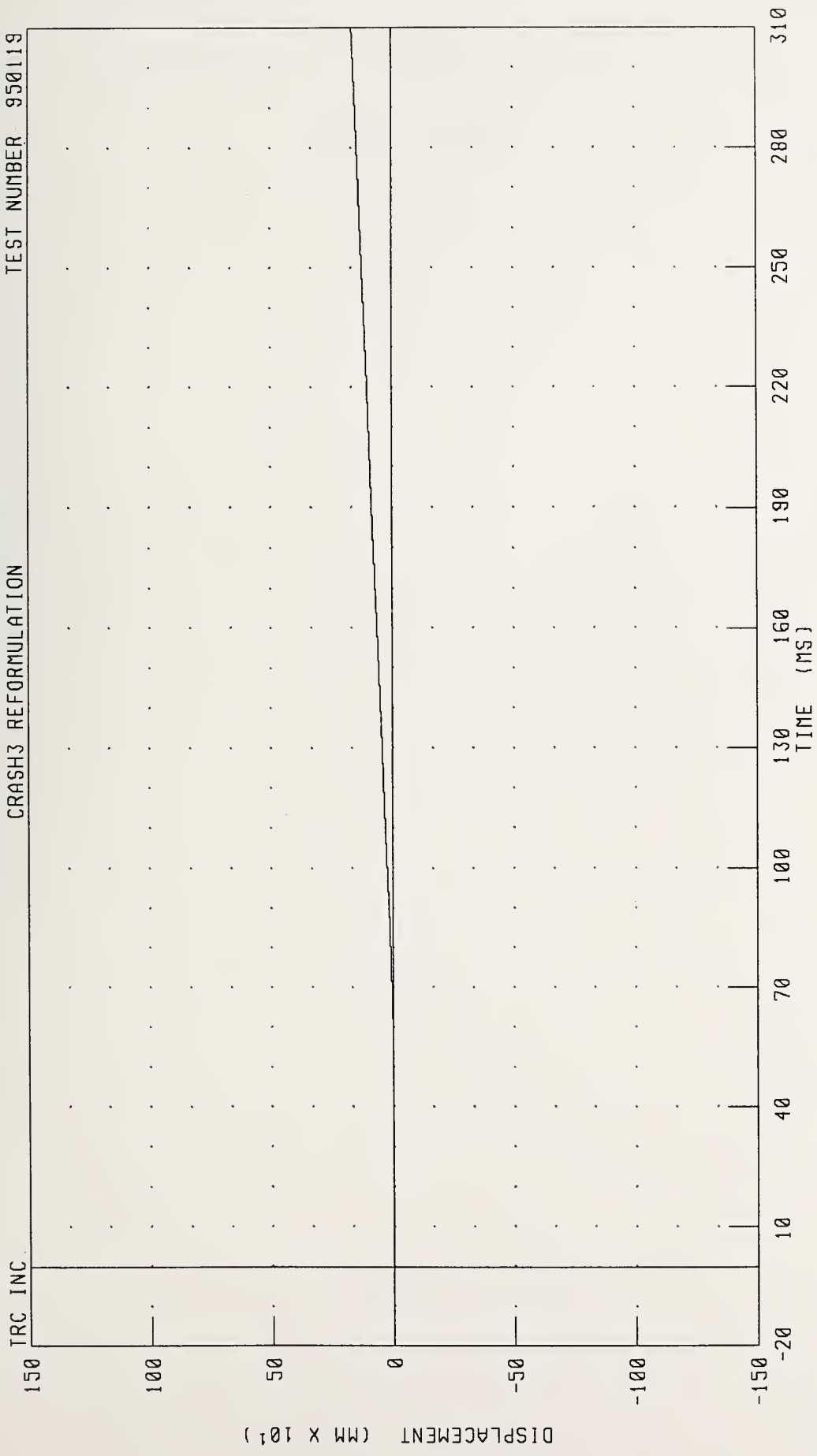


CHANNEL: TRRYV1 FILTER: CH. CLASS 180

PEAK DATA: 2.67 KM/H @ 100.16 MS; -0.06 KM/H @ 37.60 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 3 OF 5
 RIGHT REAR SEAT Y-AXIS DISPLACEMENT

TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL: TRRYD1 FILTER: CH CLASS 180 PEAK DATA: 164 31 MM @ 310 00 MS, -0 35 MM @ 47 60 MS



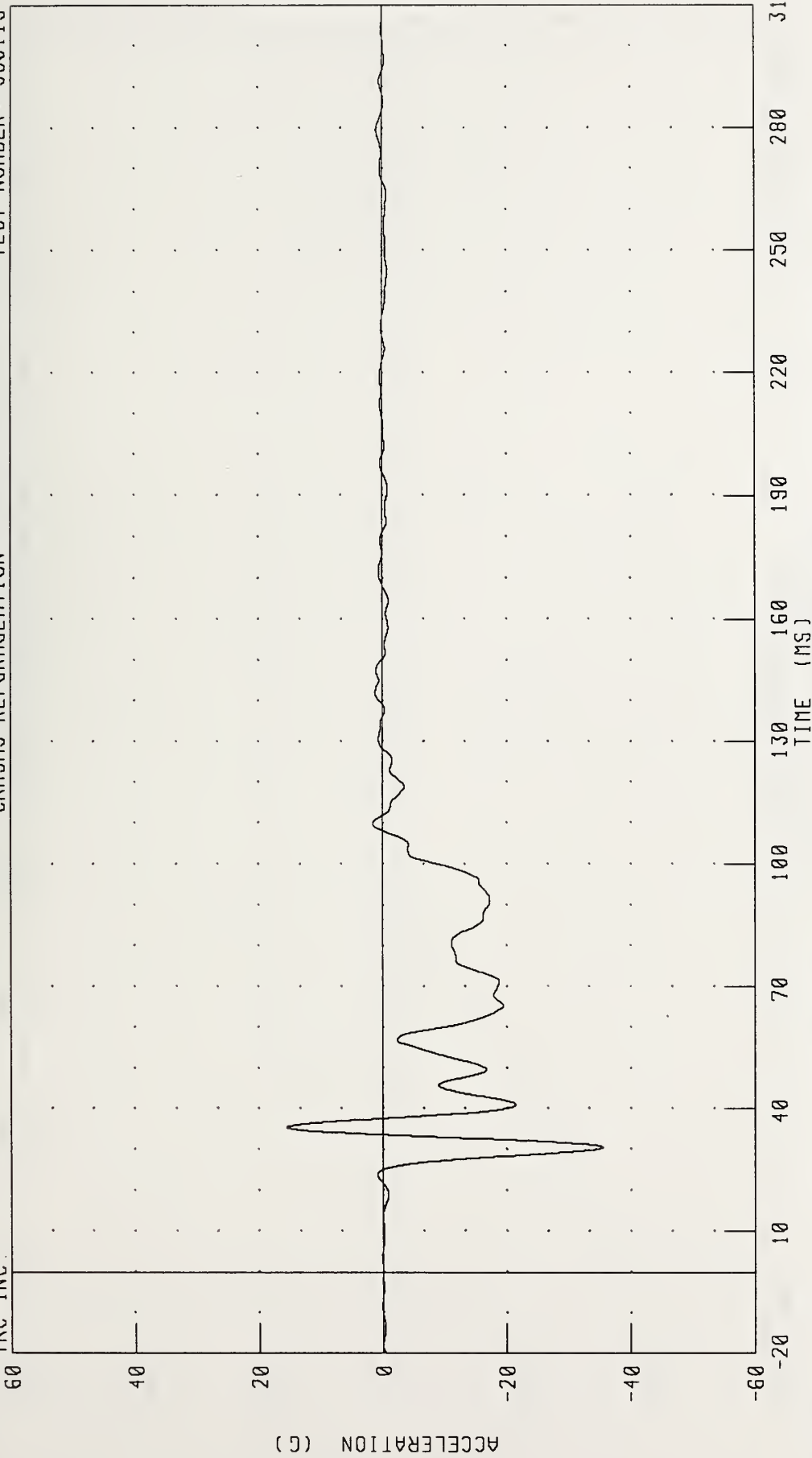
Data Plots

Test No. 950119-4

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
VEHICLE CG X-AXIS ACCELERATION
CRASH3 REFORMULATION

TEST NUMBER 950119

TRC INC.



CHANNEL : VCGXG1 FILTER : CH CLASS 60

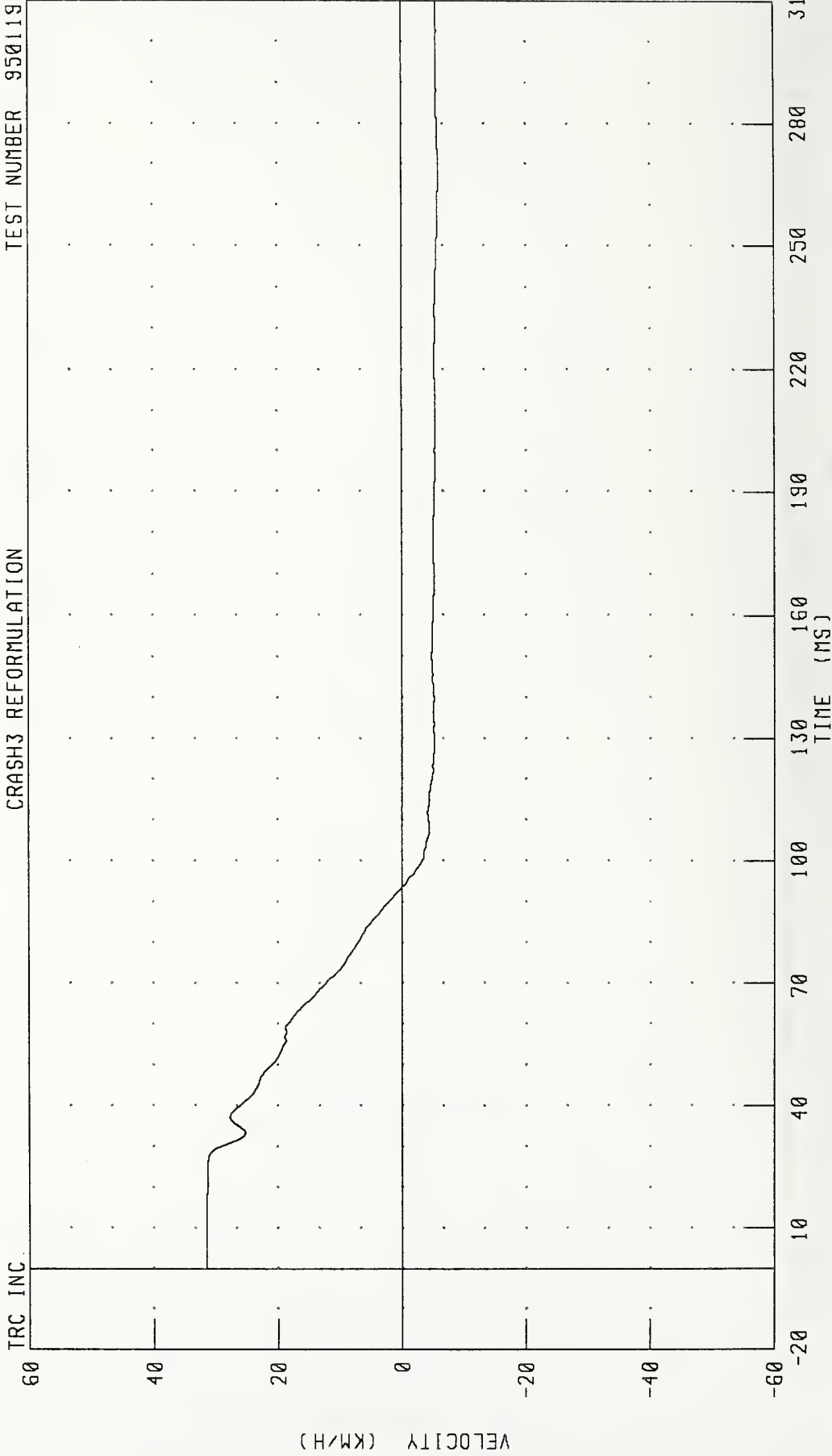
PEAK DATA: 15.57 G @ 35.36 MS, -35.47 G @ 30.48 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5

VEHICLE CG X-AXIS VELOCITY

CRASH3 REFORMULATION

TEST NUMBER 950119



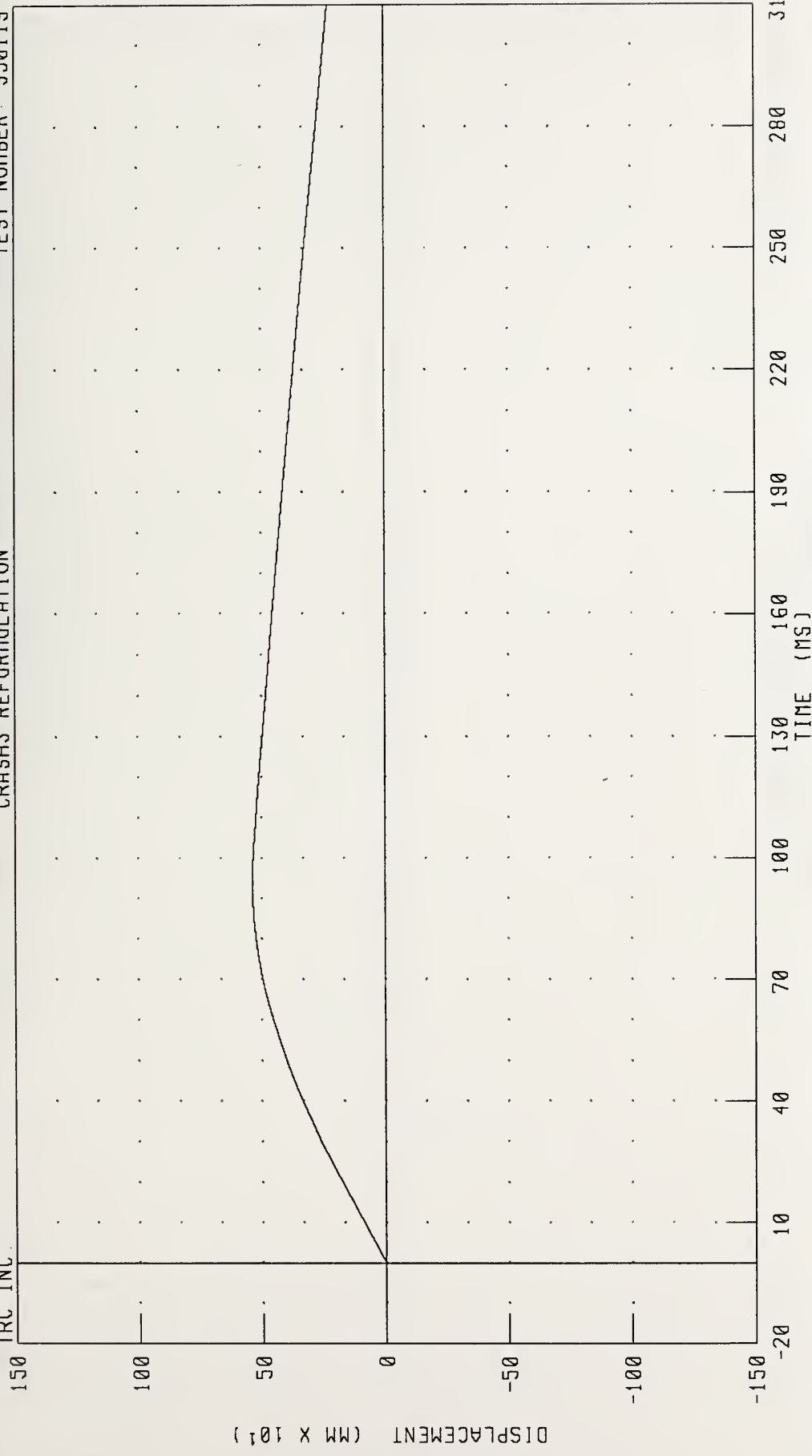
CHANNEL: VCGXV1 FILTER: CH CLASS 180

PEAK DATA: 31.52 KM/H @ 4.72 MS; -5.92 KM/H @ 266.72 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
VEHICLE CG X-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER: 950119

TRC INC.



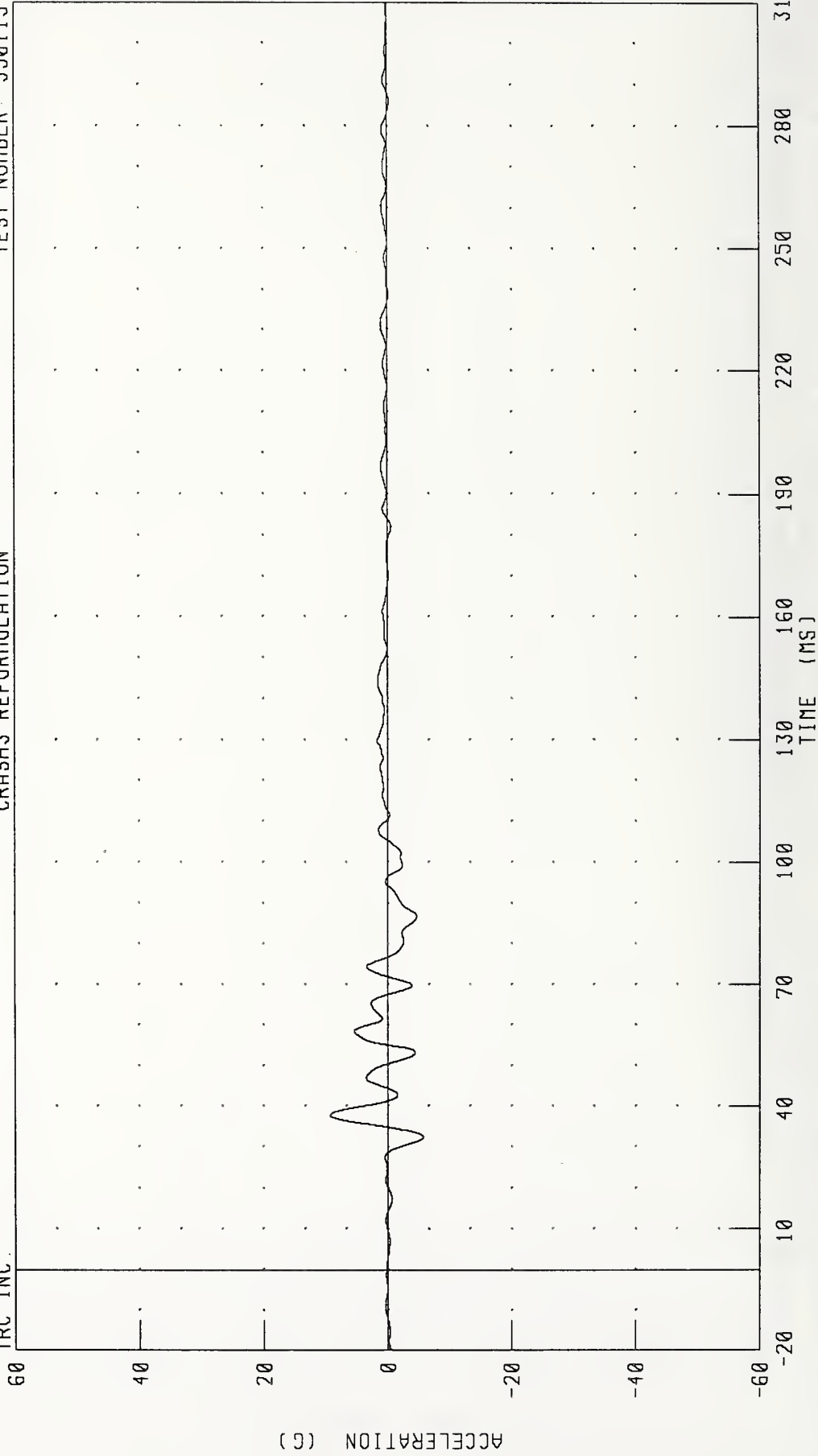
CHANNEL: VCGXD1 FILTER: CH CLASS 180 PEAK DATA: 538 60 MM @ 93 60 MS; 0 00 MM @ 0 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
VEHICLE CG Y-AXIS ACCELERATION

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC.



CHANNEL: VCGYG1 FILTER: CH. CLASS 60

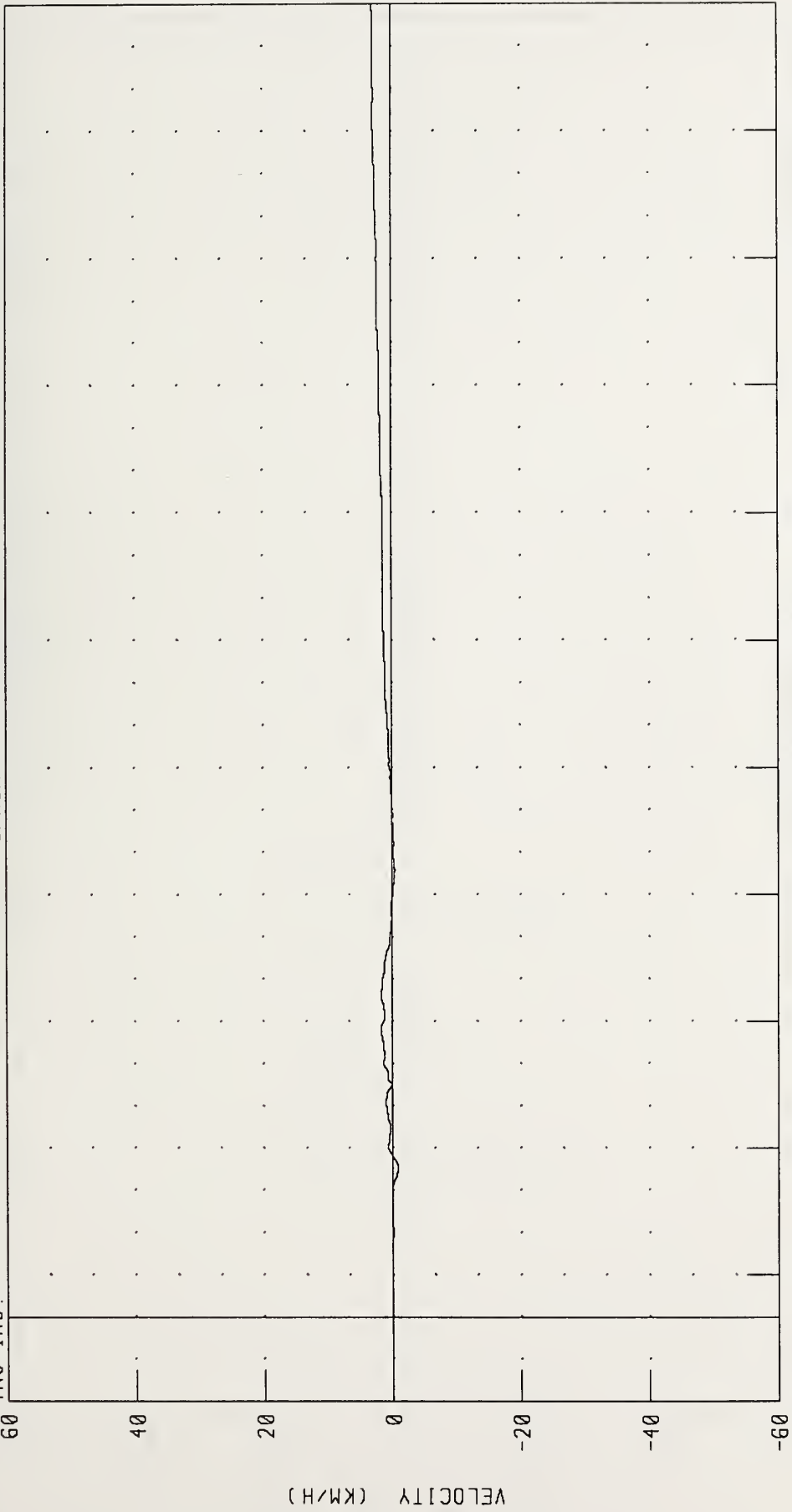
PEAK DATA: 9.30 G @ 37.84 MS, -5.73 G @ 32.48 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
VEHICLE CG Y-AXIS VELOCITY

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC.



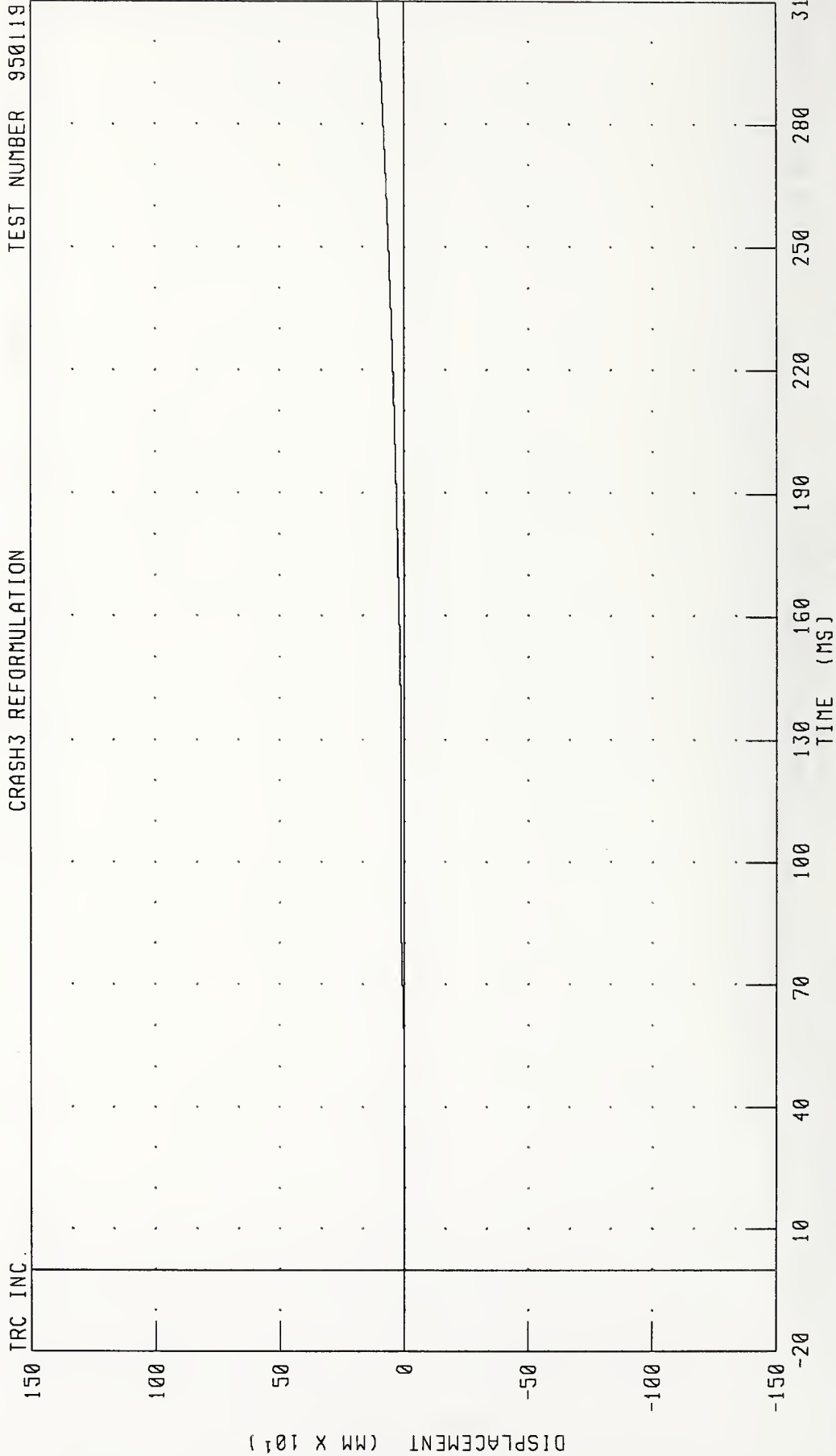
CHANNEL: VCGYV1 FILTER: CH CLASS 180

PEAK DATA: 3 02 KM/H @ 310 00 MS, -0 87 KM/H @ 35 12 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5

VEHICLE CG Y-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER 950119



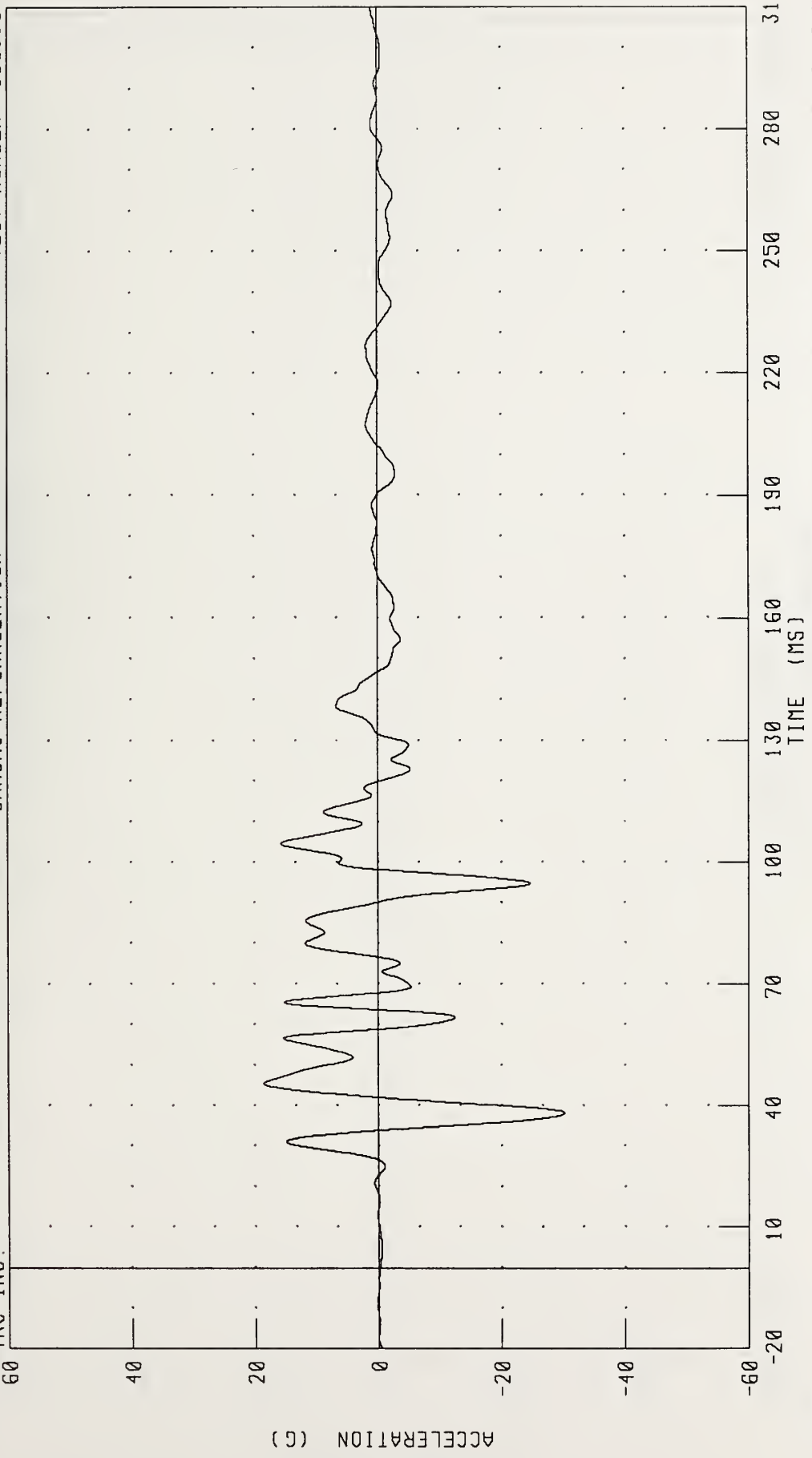
CHANNEL: VCGYD1 FILTER: CH CLASS 180

PEAK DATA: 107.27 MM @ 310.00 MS; -1.21 MM @ 38.08 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
VEHICLE CG Z-AXIS ACCELERATION

CRASH3 REFORMULATION
TEST NUMBER 950119

TRC INC.



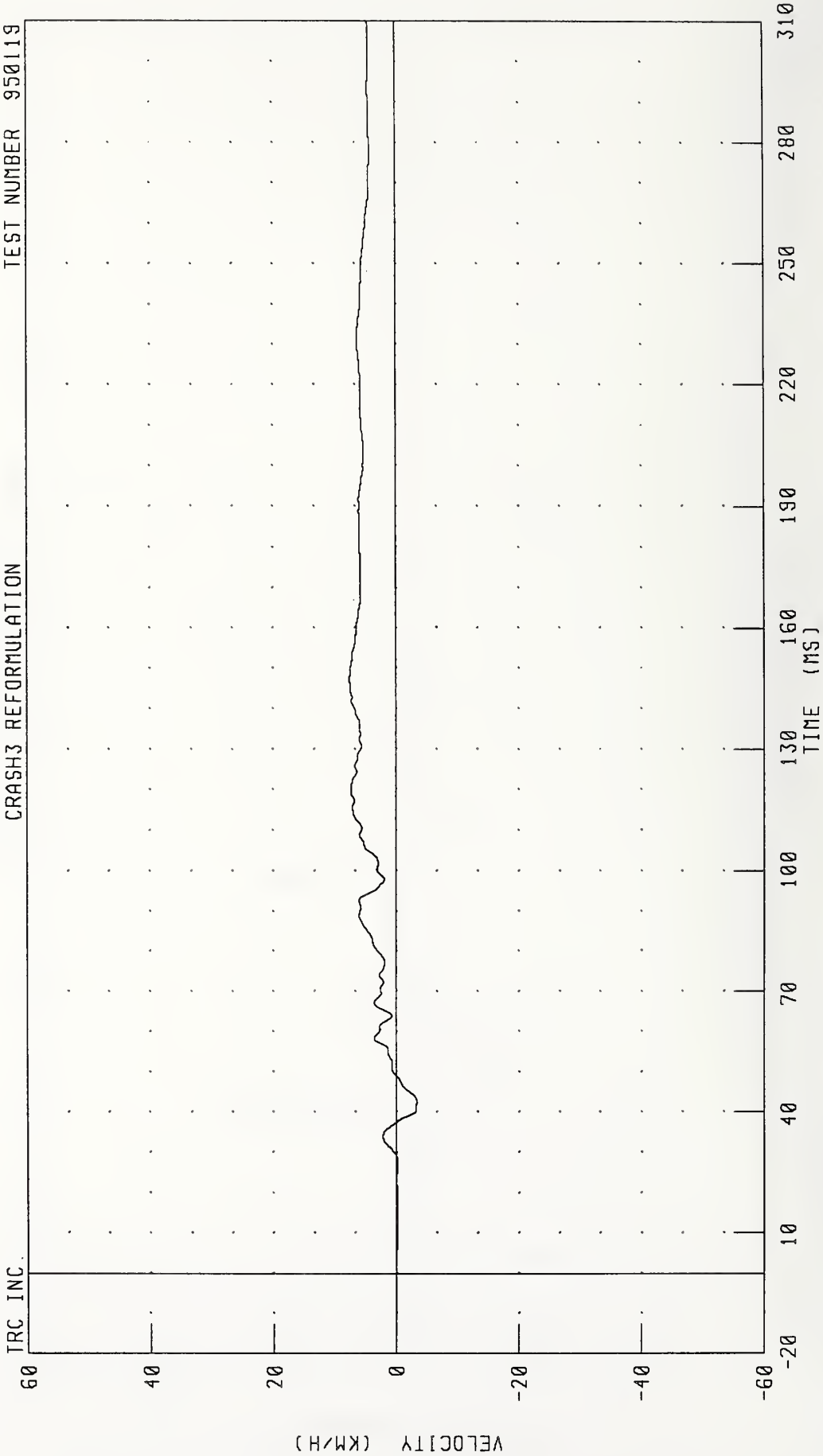
CHANNEL VCGZG1 FILTER CH CLASS 60

PEAK DATA: 18.59 G @ 45.44 MS; -30.22 G @ 38.16 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5

VEHICLE CG Z-AXIS VELOCITY

CRASH3 REFORMULATION TEST NUMBER 950119

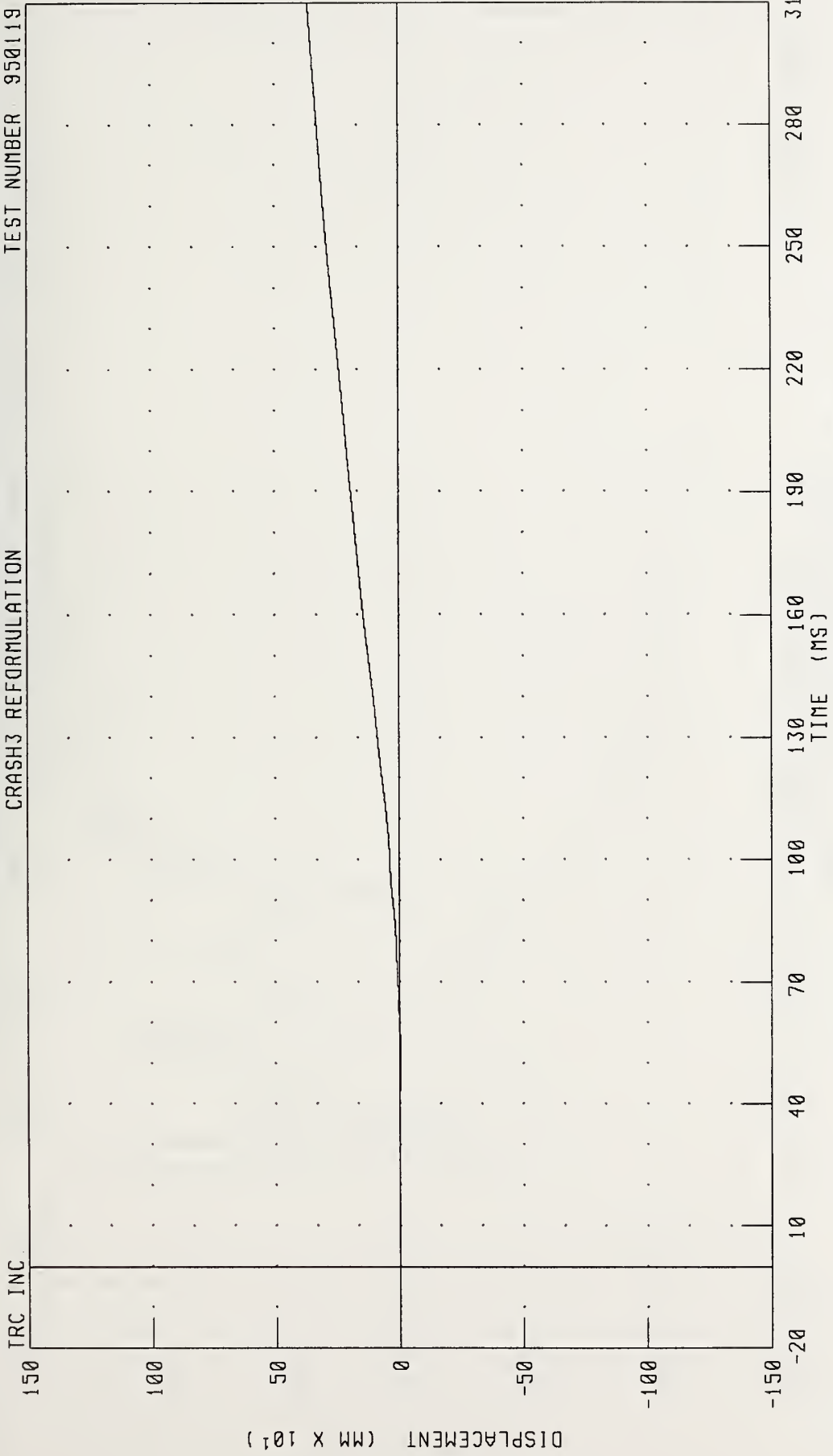


CHANNEL: VCGZV1 FILTER: CH CLASS 180

PEAK DATA: 7.61 KM/H @ 147.28 MS, -3.35 KM/H @ 42.64 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
VEHICLE CG Z-AXIS DISPLACEMENT

CRASH3 REFORMULATION
TEST NUMBER 950119



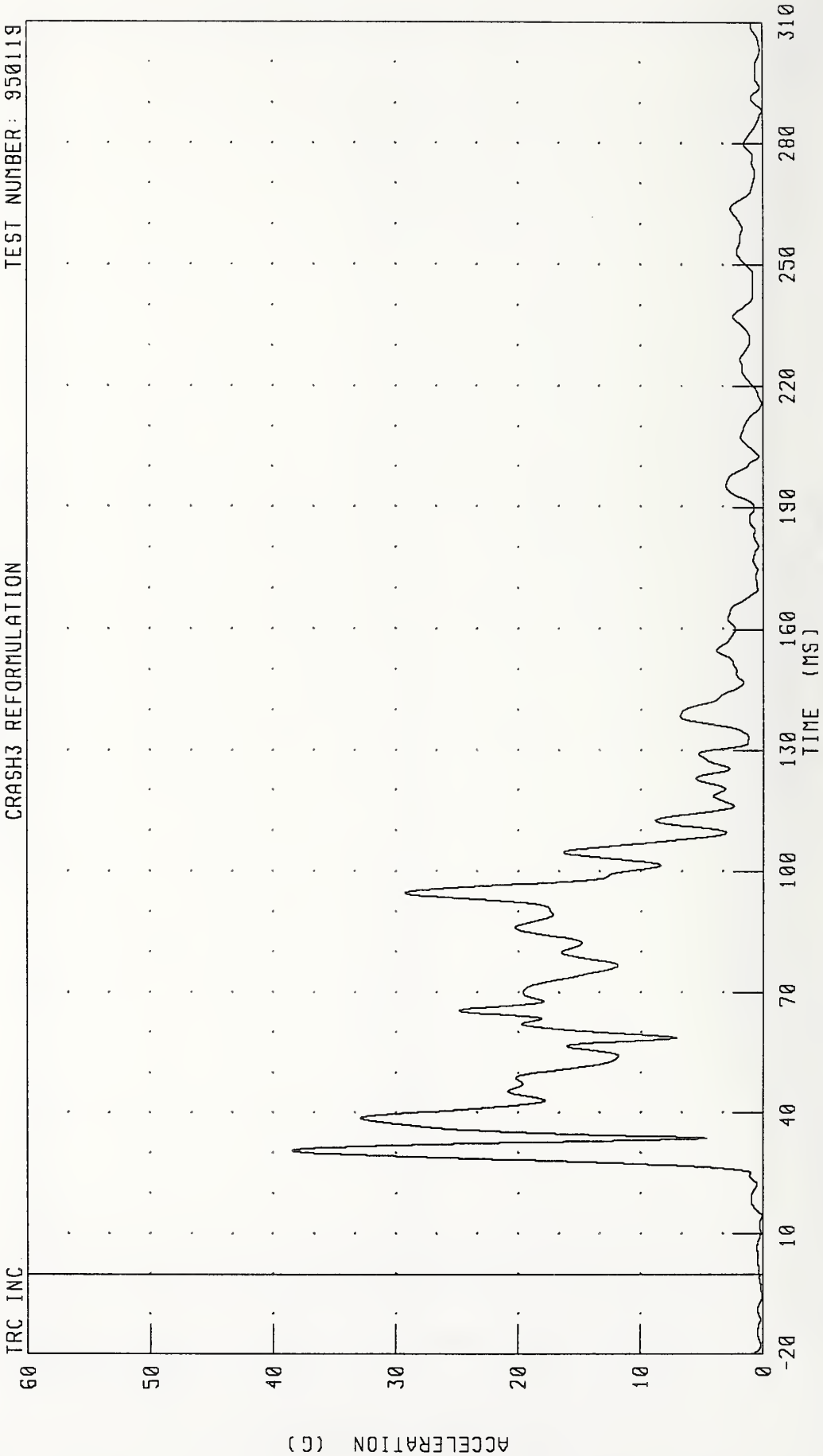
CHANNEL VCGZD1 FILTER CH CLASS 180

PEAK DATA: 365.15 MM @ 310 00 MS; -4.22 MM @ 48 96 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
VEHICLE CG RESULTANT ACCELERATION

TEST NUMBER: 950119

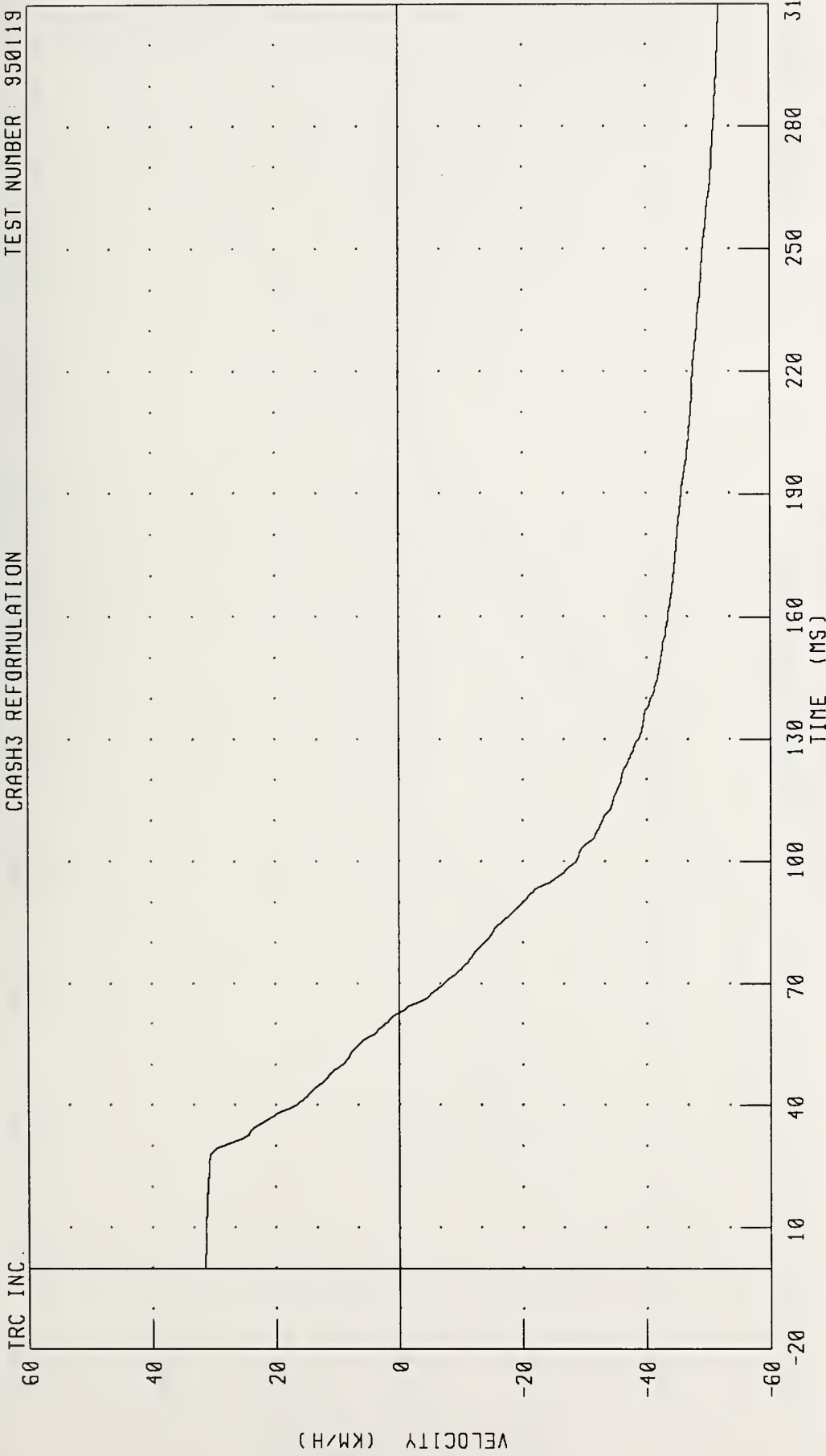
CRASH3 REFORMULATION



CHANNEL: VCGRG1 FILTER: CH CLASS 60 PEAK DATA: 38 44 G @ 30.64 MS, 0 05 G @ 14 24 MS

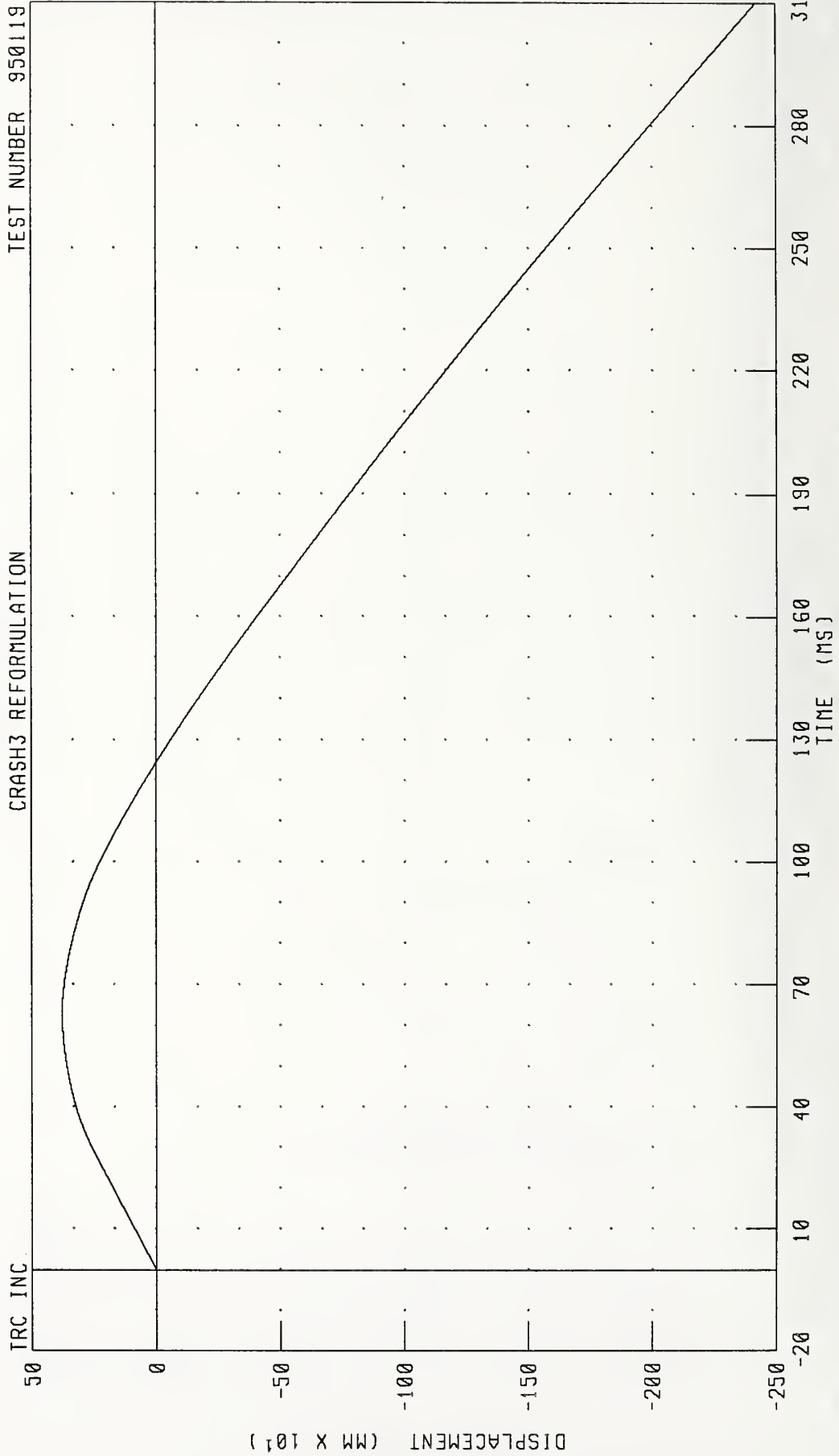
1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
VEHICLE CG RESULTANT VELOCITY
CRASH3 REFORMULATION

TRC INC. TEST NUMBER: 950119



CHANNEL: VCGRV1 FILTER: CH. CLASS 180 PEAK DATA: 31.50 KM/H @ 0.00 MS; -51.90 KM/H @ 310.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
VEHICLE CG RESULTANT DISPLACEMENT



TRC INC

CHANNEL: VCGRD1 FILTER: CH CLASS 180

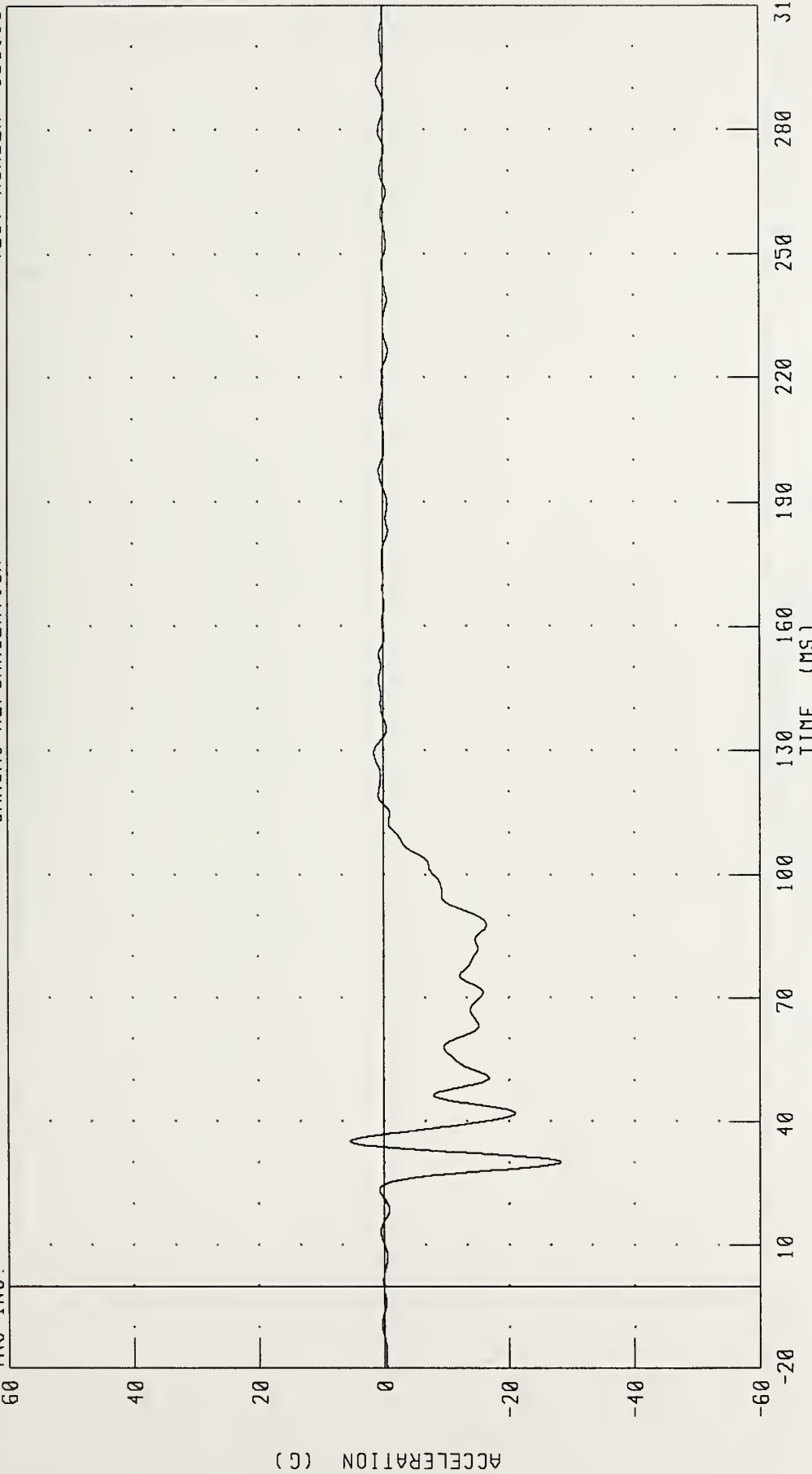
PEAK DATA: 376.28 MM @ 62.80 MS, -2416.99 MM @ 310.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
LEFT FRONT SILL X-AXIS ACCELERATION

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC.



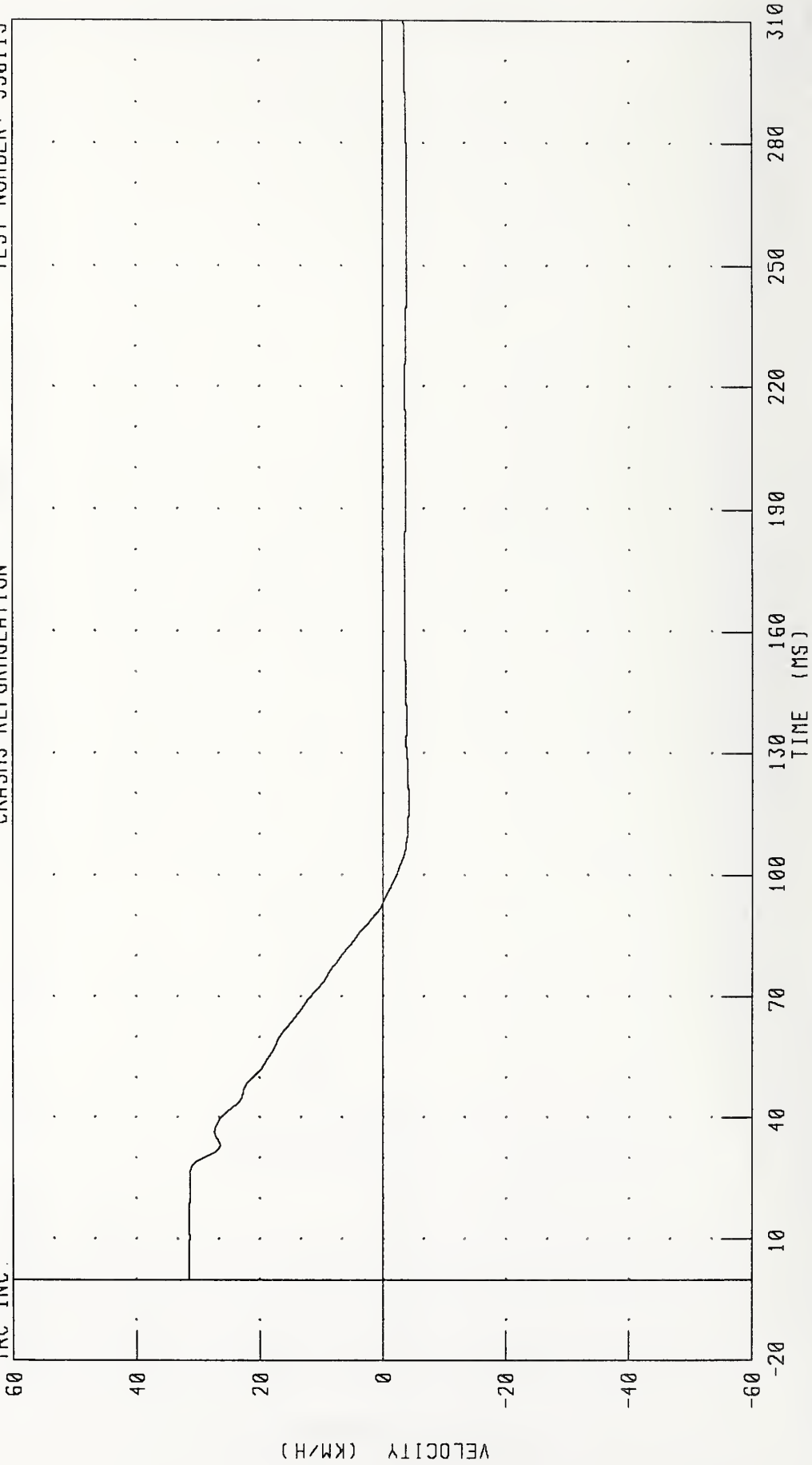
CHANNEL: LFSXG1 FILTER: CH CLASS 60

PEAK DATA: 5.37 G @ 35.20 MS, -28.34 G @ 30.24 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
LEFT FRONT SILL X-AXIS VELOCITY

TRC INC. TEST NUMBER: 950119

CRASH3 REFORMULATION

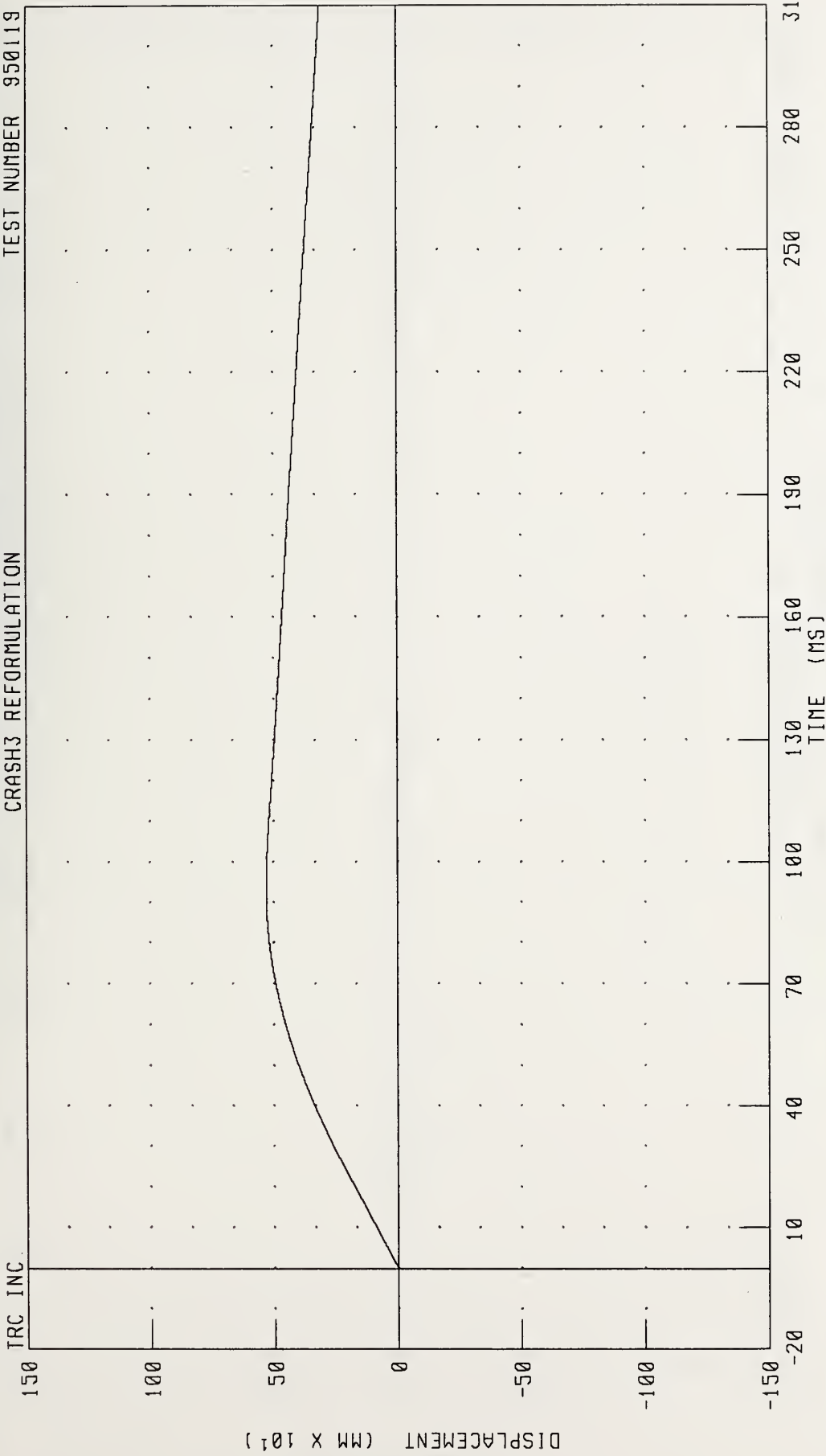


CHANNEL: LFSXV1 FILTER: CH. CLASS 180

PEAK DATA: 31.51 KM/H @ 2.48 MS; -4.28 KM/H @ 116.88 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
LEFT FRONT SILL X-AXIS DISPLACEMENT

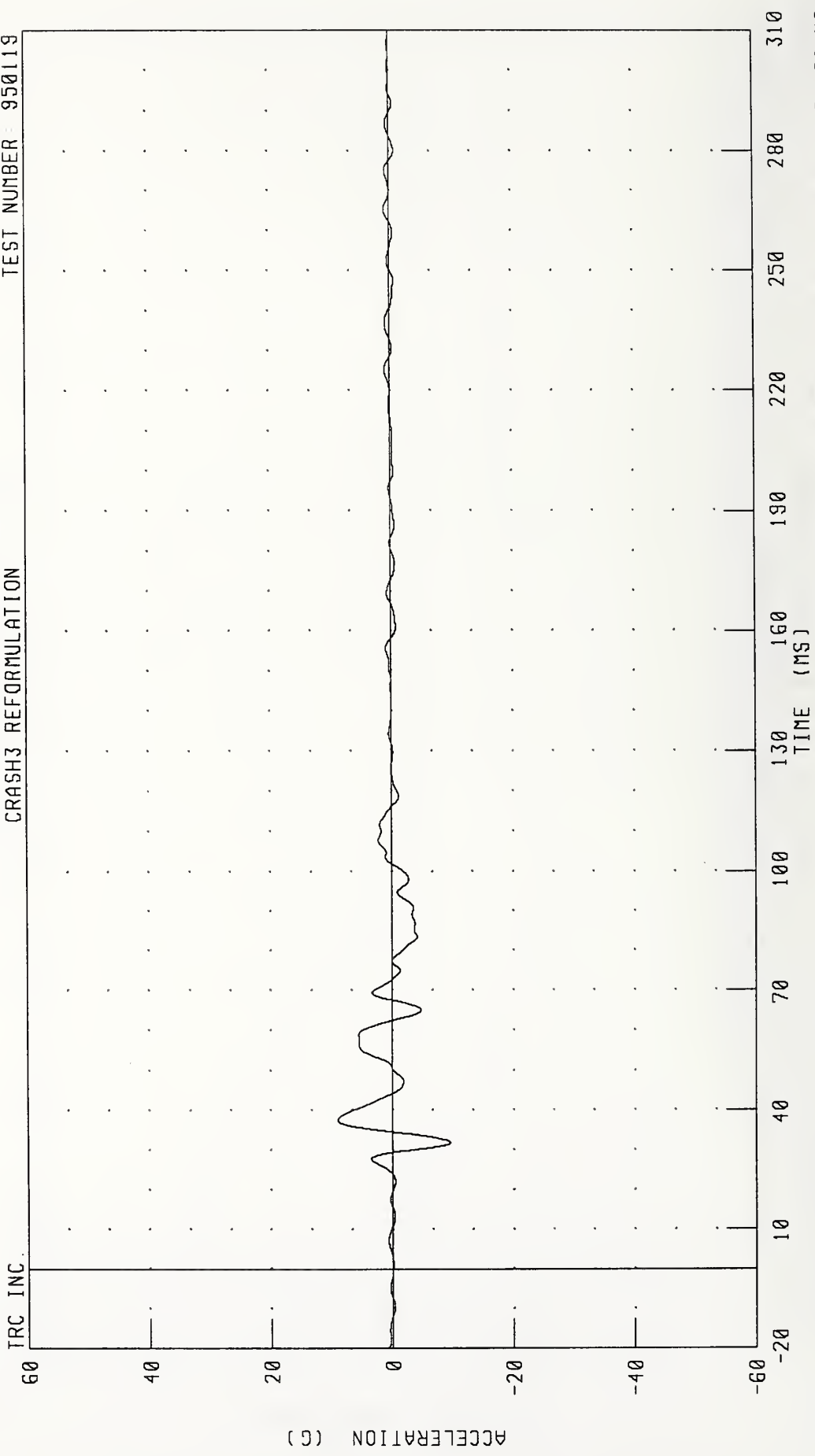
CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL: LFSXD1 FILTER: CH CLASS 180 PEAK DATA: 531.15 MM @ 93.20 MS, 0.00 MM @ 0.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
LEFT FRONT SILL Y-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950118

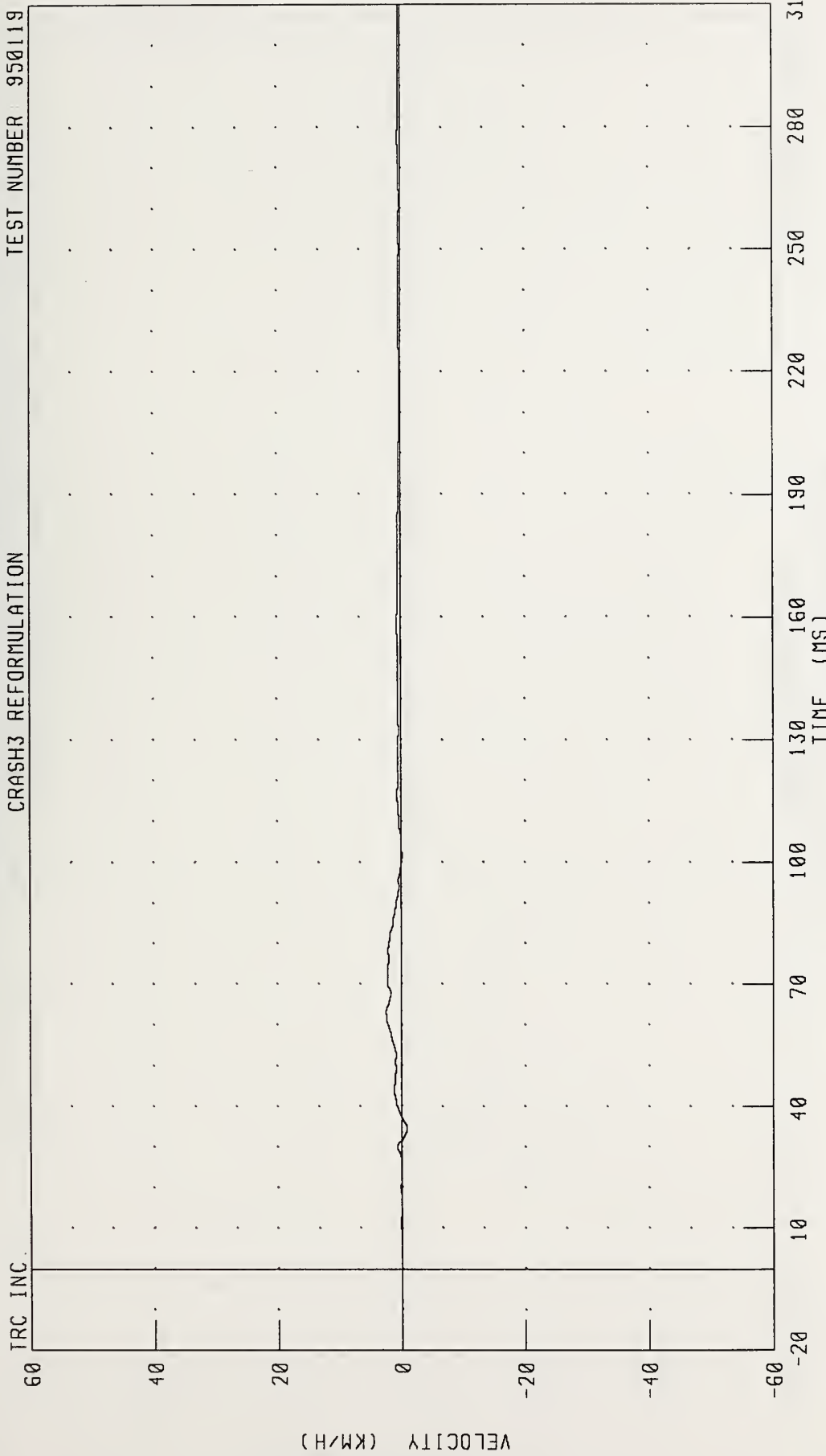


TRC INC. CHANNEL: LFSYG1 FILTER: CH CLASS 60
PEAK DATA: 9.05 G @ 37.52 MS, -9.56 G @ 31.92 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
LEFT FRONT SILL Y-AXIS VELOCITY

TRC INC. TEST NUMBER 950119

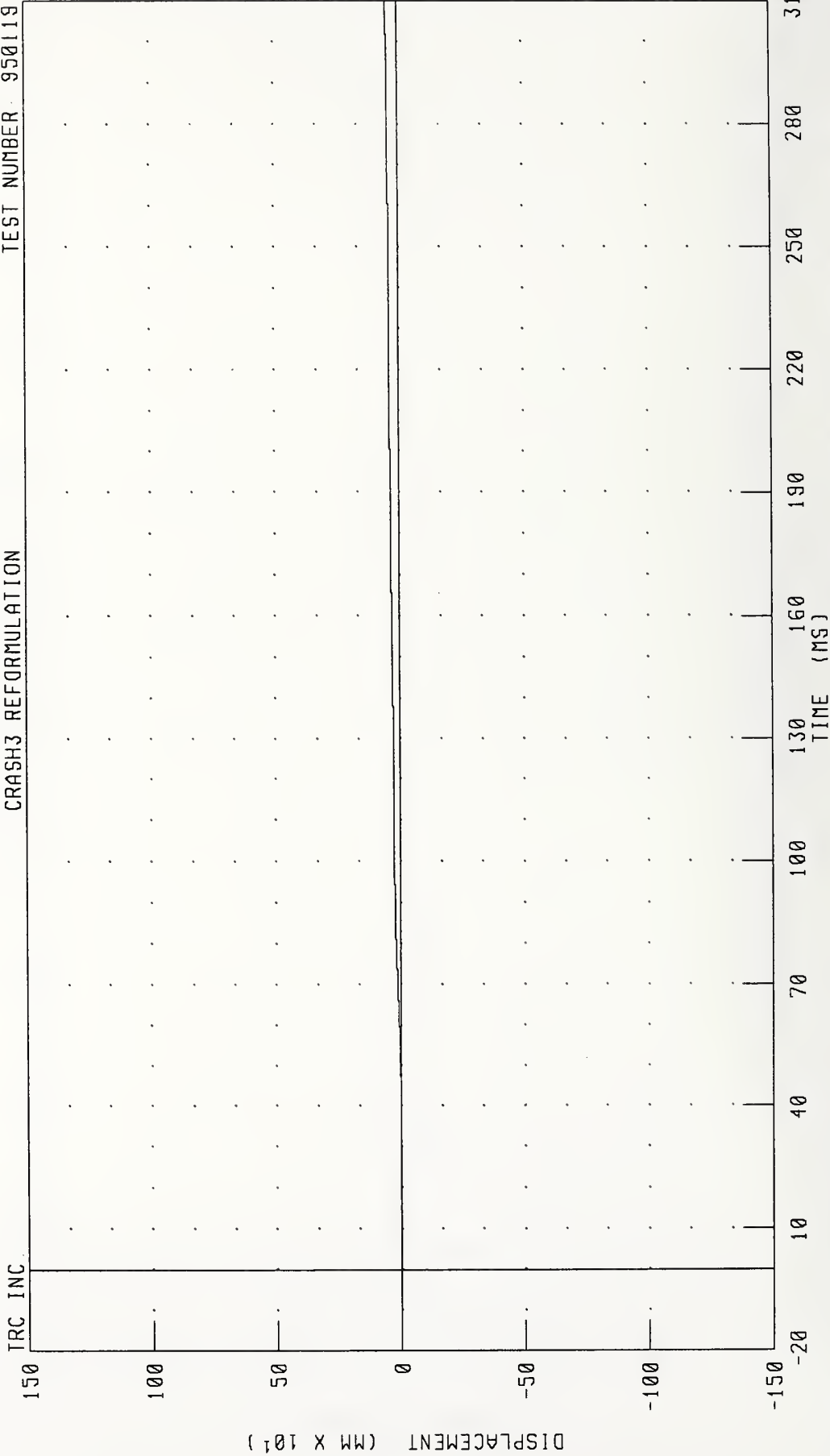
CRASH3 REFORMULATION



CHANNEL LFSYV1 FILTER: CH CLASS 180 PEAK DATA: 2.51 KM/H @ 63.04 MS; -0.87 KM/H @ 34.56 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
 LEFT FRONT SILL Y-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER 950119



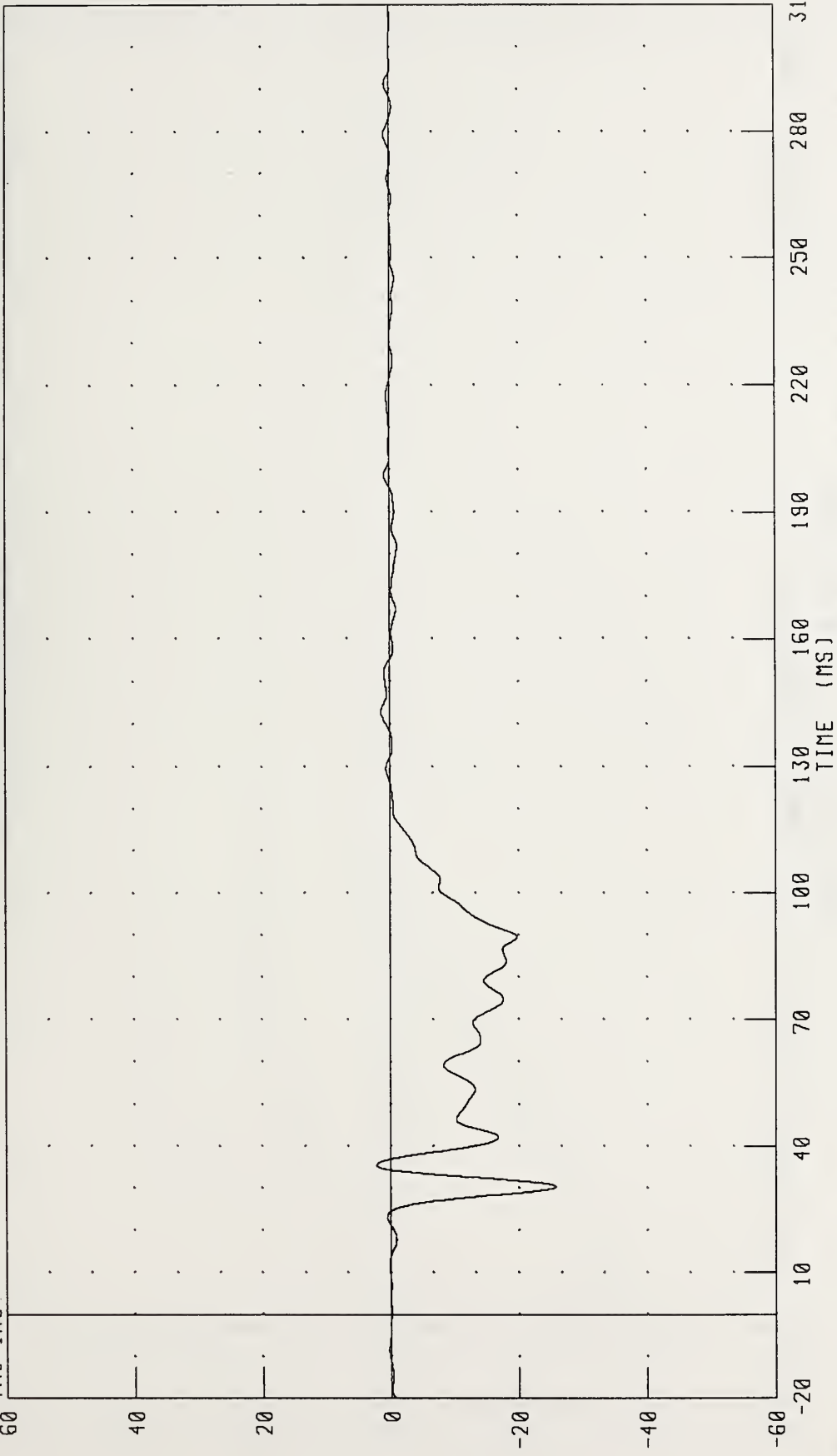
CHANNEL: LFSYD1 FILTER: CH CLASS 180

PEAK DATA: 45.56 MM @ 310.00 MS, -0.01 MM @ 5.36 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
RIGHT FRONT SILL X-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER: 950119

TRC INC



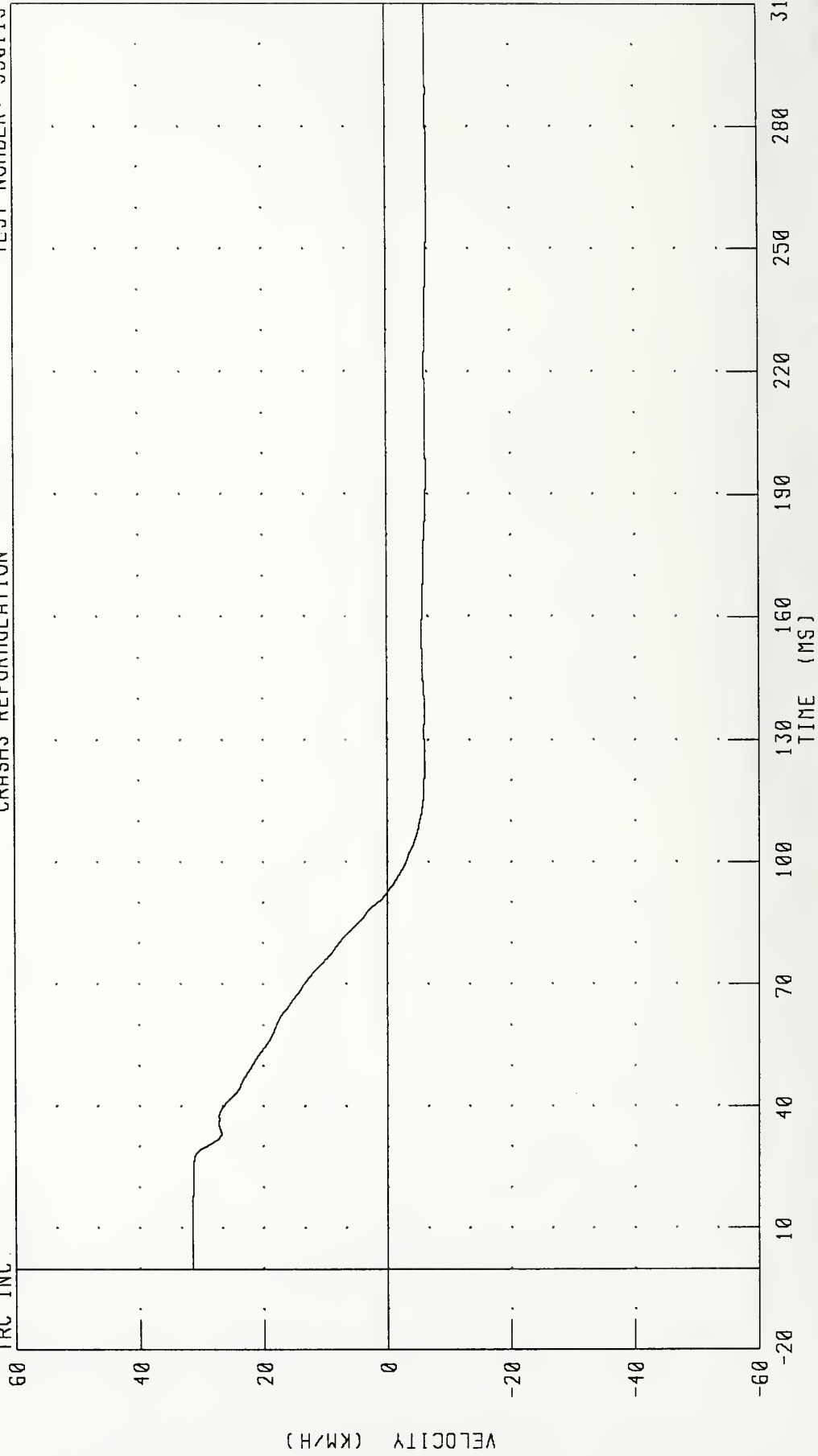
CHANNEL: RFSXG1 FILTER: CH CLASS 60

PEAK DATA: 2.27 G @ 35.52 MS, -25.84 G @ 30.32 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
RIGHT FRONT SILL X-AXIS VELOCITY

TRC INC. TEST NUMBER: 950119

CRASH3 REFORMULATION



CHANNEL: RFSXV1 FILTER: CH CLASS 180

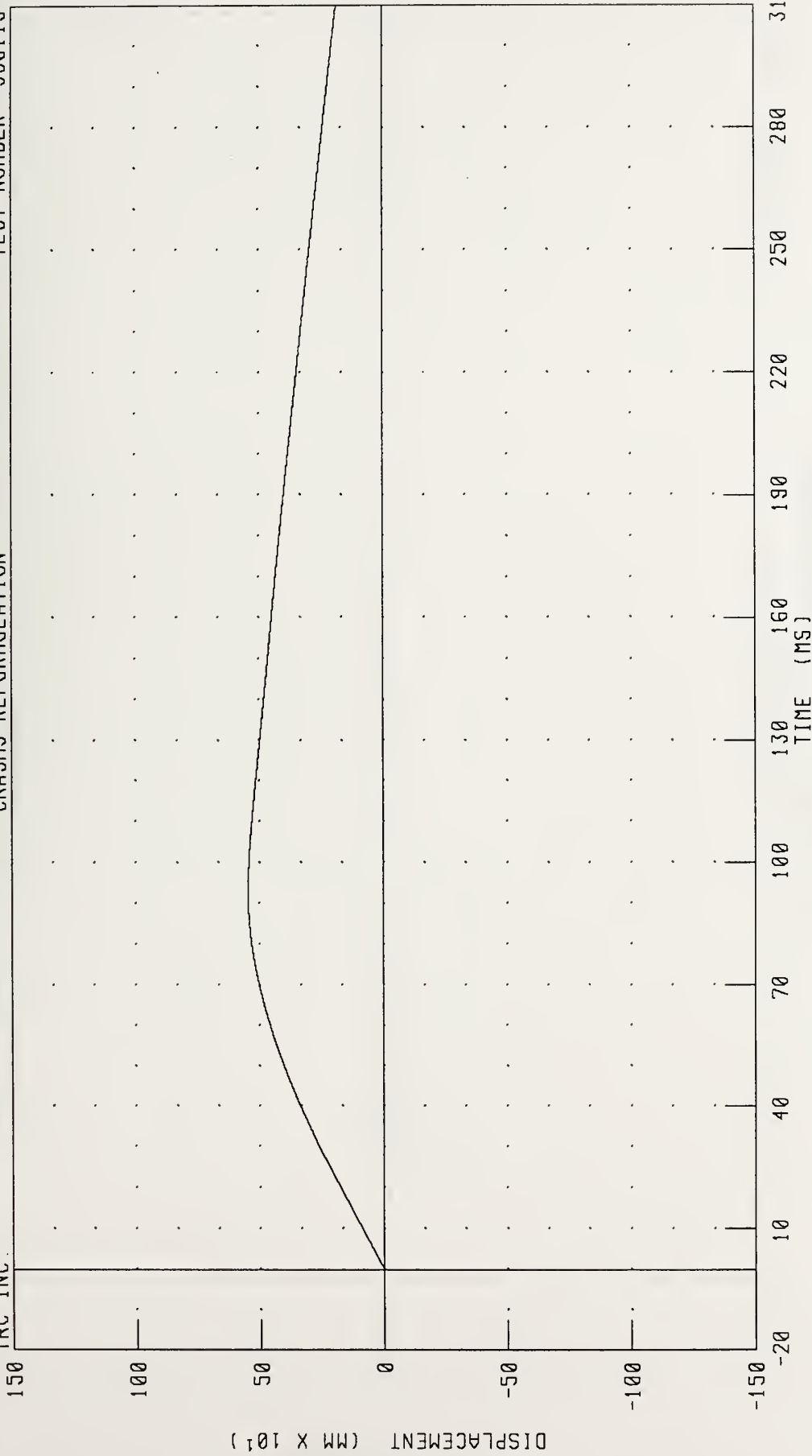
PEAK DATA: 31.51 KM/H @ 14.80 MS, -6.61 KM/H @ 266.88 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
RIGHT FRONT SILL X-AXIS DISPLACEMENT

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC.

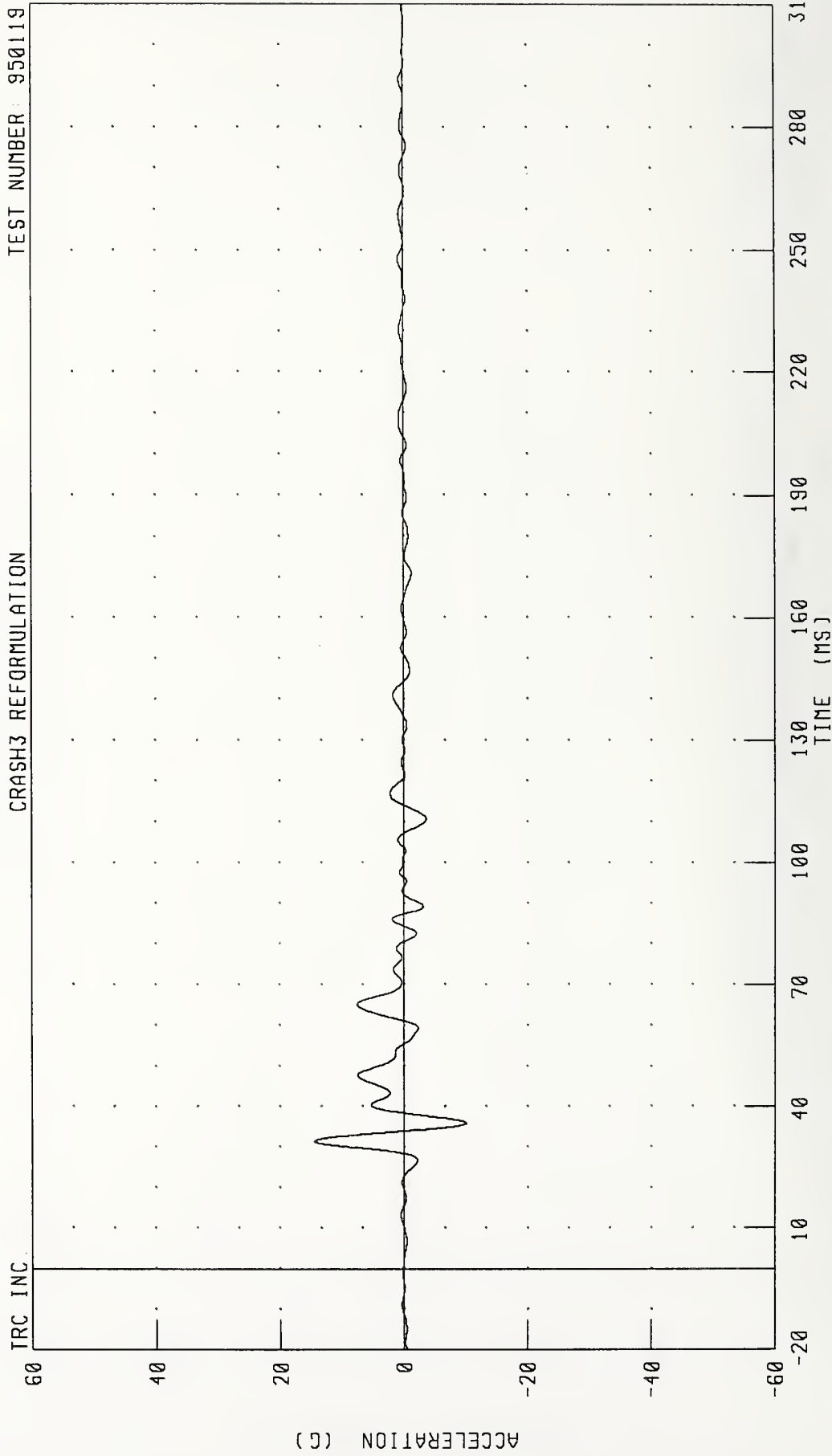


CHANNEL: RFSXD1 FILTER: CH CLASS 180

PEAK DATA: 546.43 MM @ 92.64 MS, 0.00 MM @ 0.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
RIGHT FRONT SILL Y-AXIS ACCELERATION

TRC INC. CRASH3 REFORMULATION TEST NUMBER: 950119



CHANNEL: RFSYG1 FILTER: CH. CLASS 60

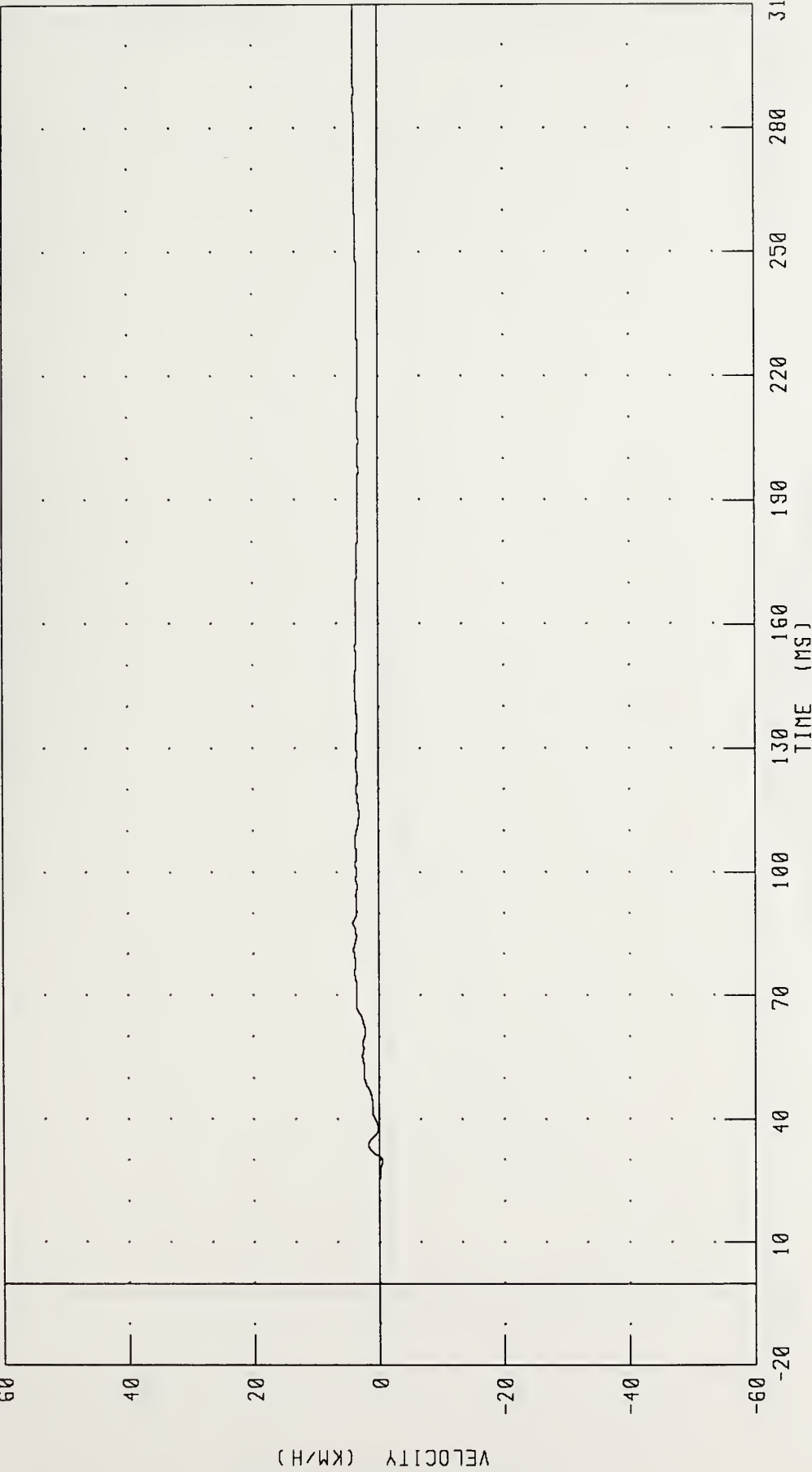
PEAK DATA: 14.52 G @ 31.44 MS, -10.08 G @ 35.92 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
RIGHT FRONT SILL Y-AXIS VELOCITY

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC

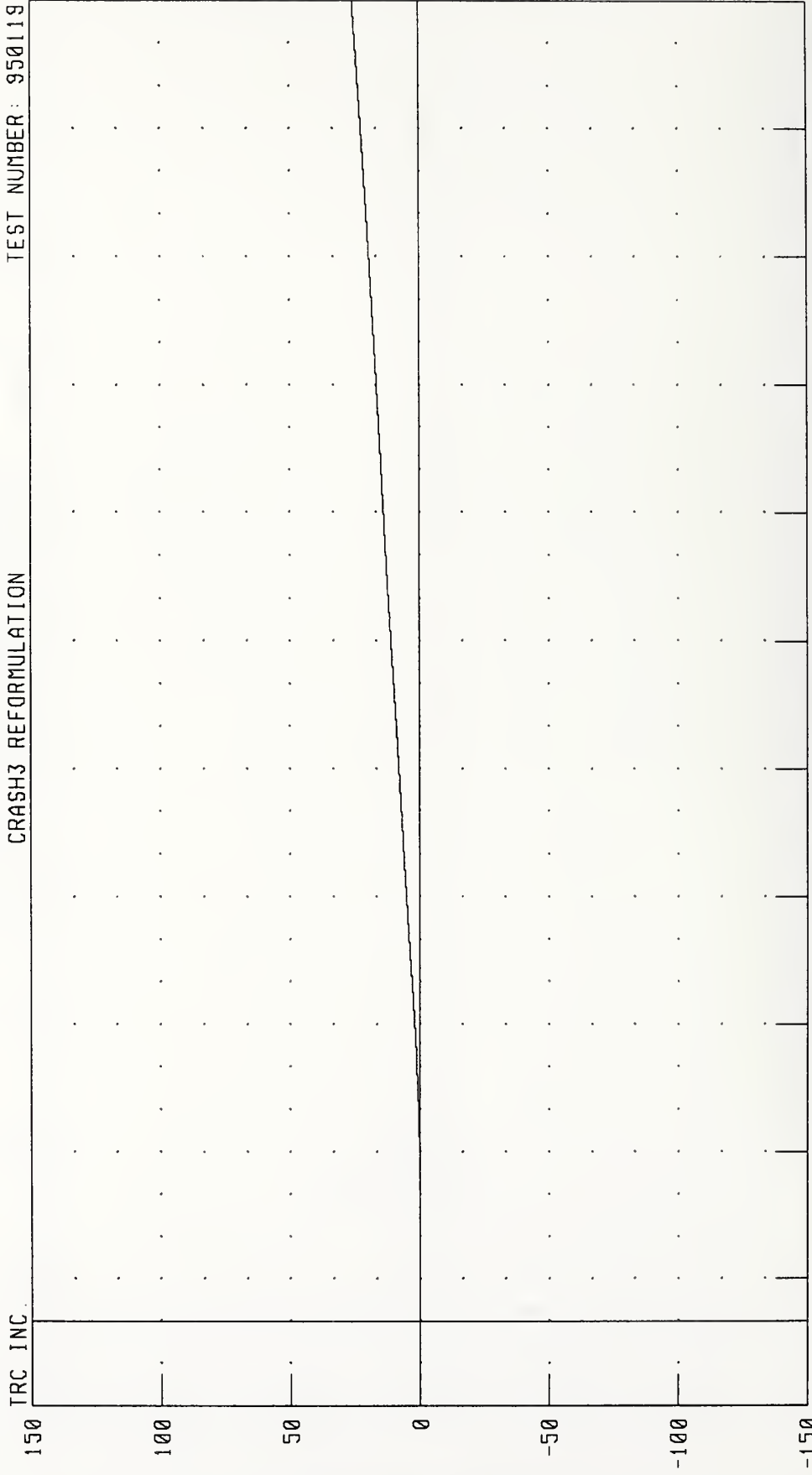


CHANNEL: RFSYV1 FILTER: CH. CLASS 180 PEAK DATA: 4.17 KM/H @ 87.60 MS, -0.56 KM/H @ 29.76 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
RIGHT FRONT SILL Y-AXIS DISPLACEMENT

TRC INC. TEST NUMBER: 950119

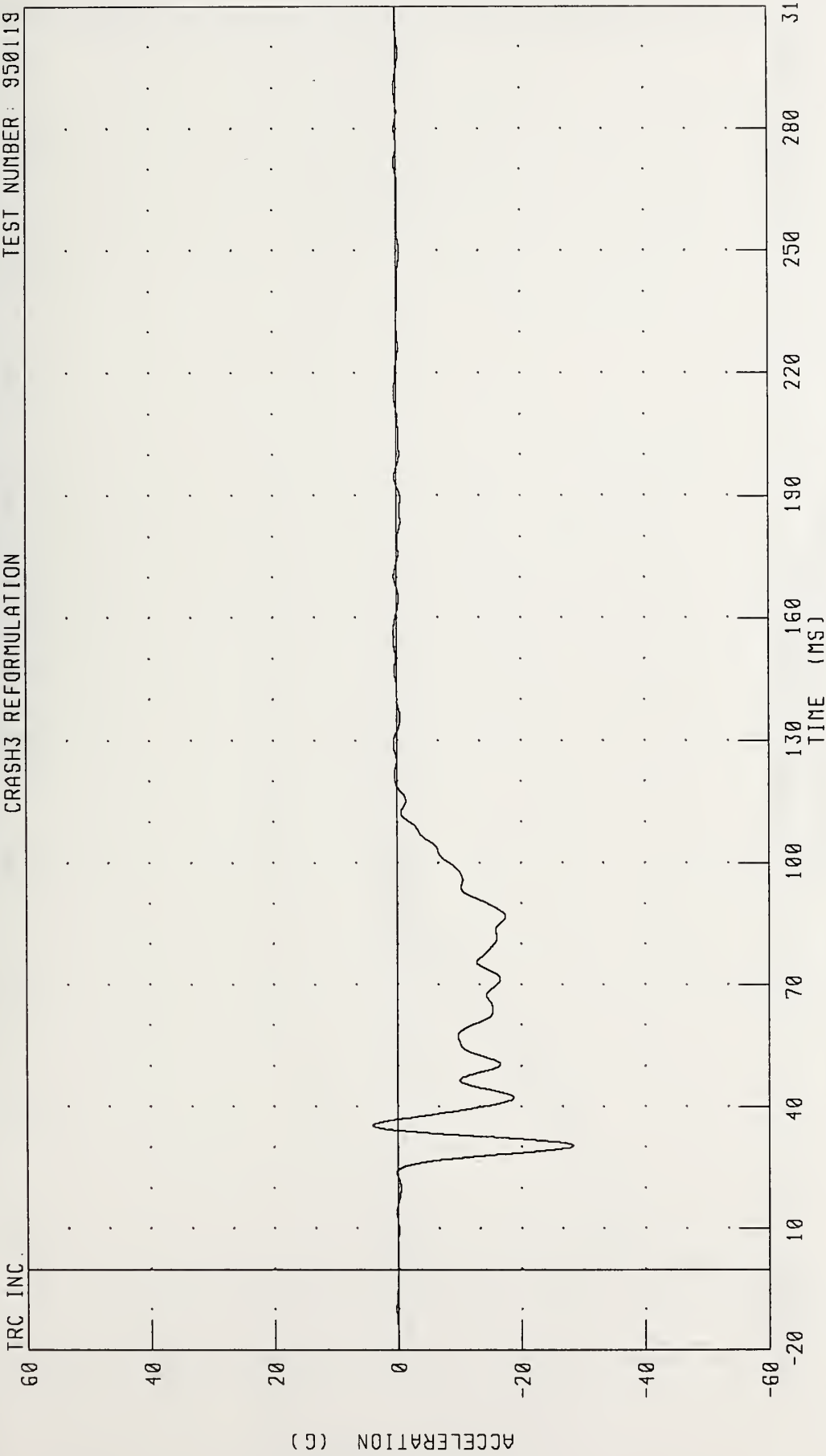
CRASH3 REFORMULATION



CHANNEL: RFSYD1 FILTER: CH CLASS 180
PEAK DATA: 256.20 MM @ 310.00 MS; -0.62 MM @ 30.88 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
LEFT REAR SEAT X-AXIS ACCELERATION
CRASH3 REFORMULATION

TEST NUMBER: 950119

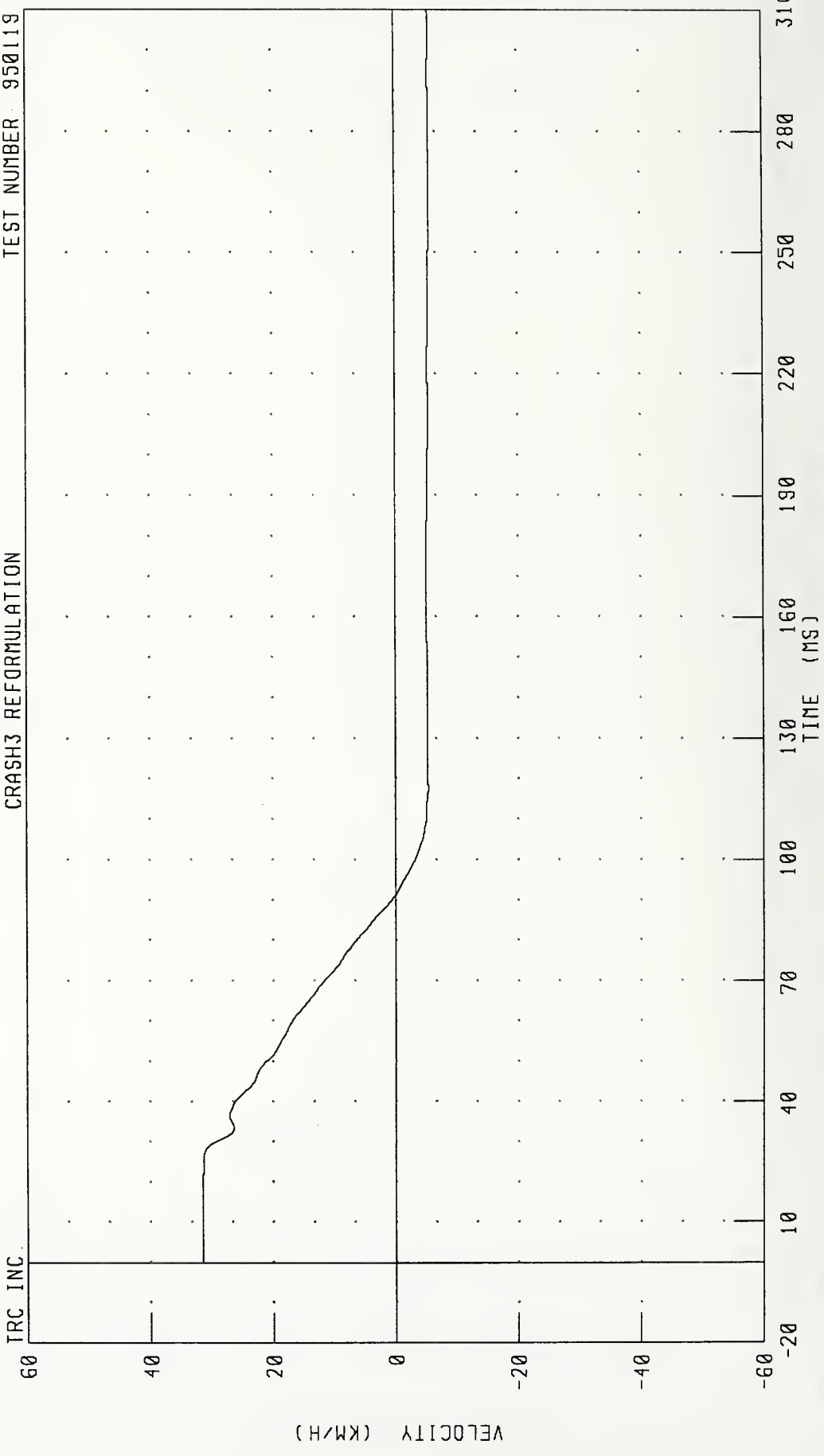


CHANNEL: TLRXG1 FILTER: CH CLASS 60 PEAK DATA 4 05 G @ 35 44 MS, -28 45 G @ 30 40 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
LEFT REAR SEAT X-AXIS VELOCITY

TRC INC. TEST NUMBER: 950119

CRASH3 REFORMULATION



CHANNEL: TLRXY1 FILTER: CH. CLASS 180

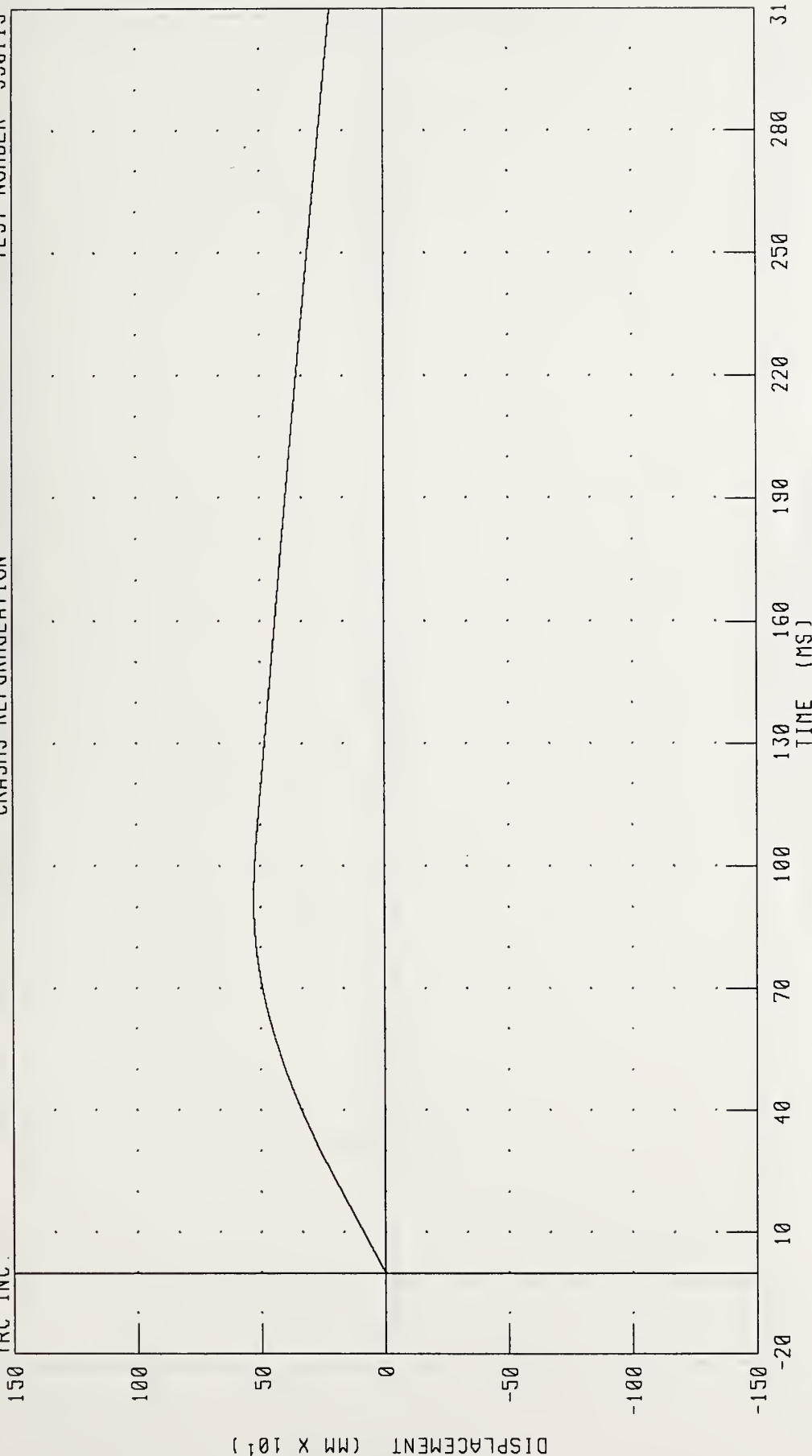
PEAK DATA: 31.51 KM/H @ 15.60 MS, -5.62 KM/H @ 268.72 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
LEFT REAR SEAT X-AXIS DISPLACEMENT

TEST NUMBER 950119

CRASH3 REFORMULATION

TRC INC



CHANNEL: TLRXD1 FILTER: CH CLASS 180 PEAK DATA: 528.57 MM @ 91.28 MS; 0.00 MM @ 0.00 MS

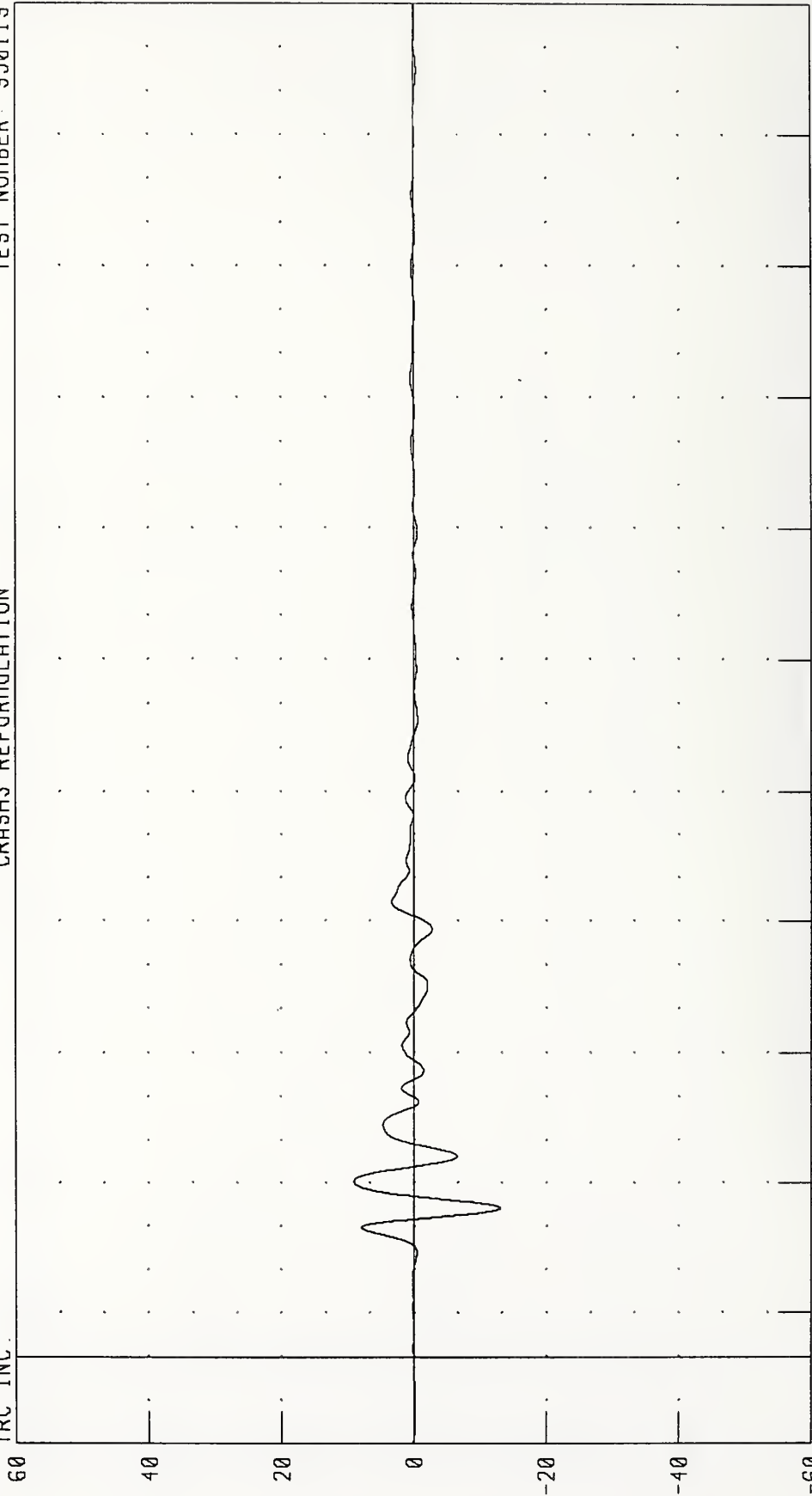
1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5

LEFT REAR SEAT Y-AXIS ACCELERATION

CRASH3 REFORMULATION

TEST NUMBER 950119

TRC INC.

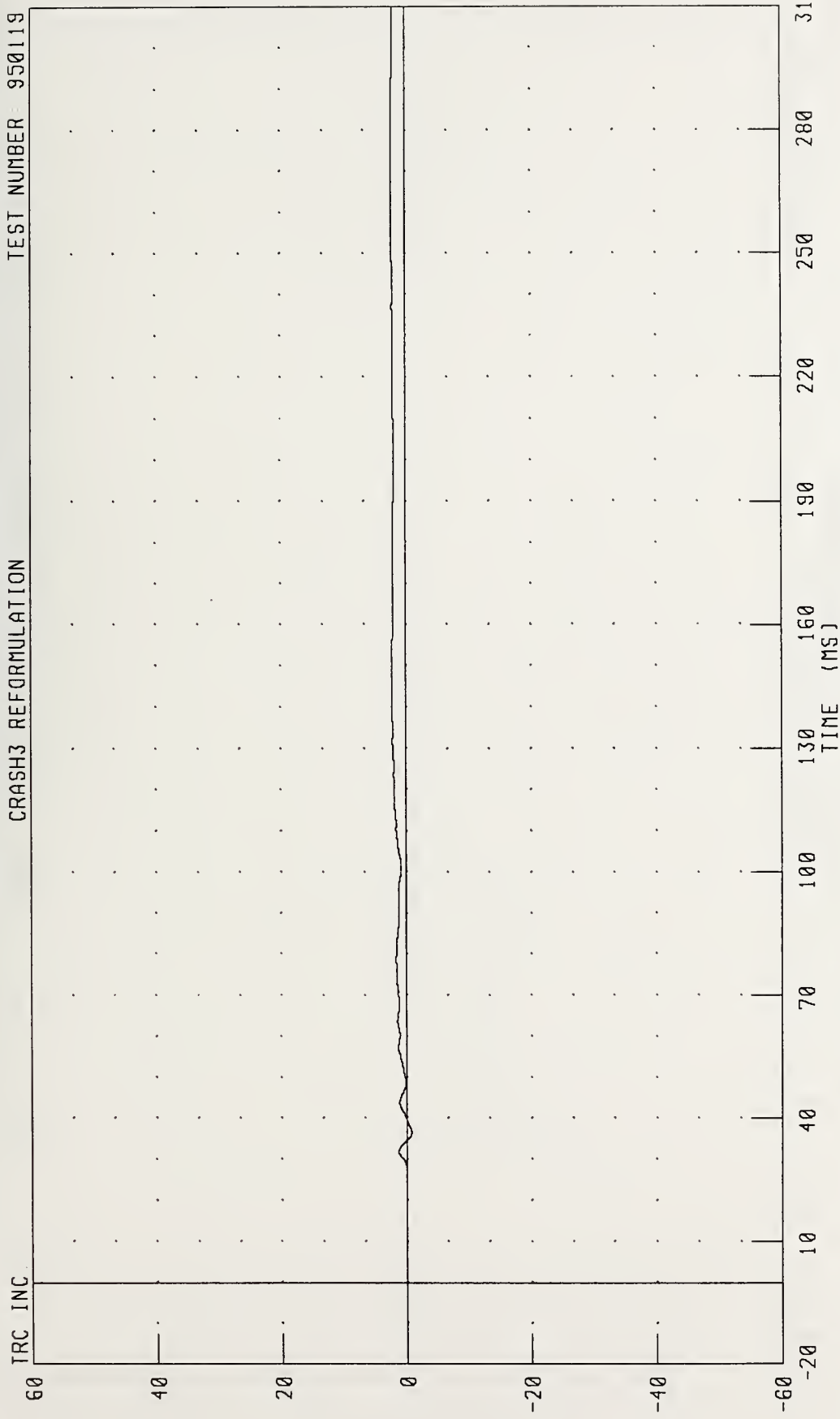


CHANNEL: TLRYG1 FILTER: CH CLASS 60

PEAK DATA: 9.10 G @ 40.40 MS; -13.08 G @ 34.24 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
LEFT REAR SEAT Y-AXIS VELOCITY

TRC INC
CRASH3 REFORMULATION
TEST NUMBER 950119



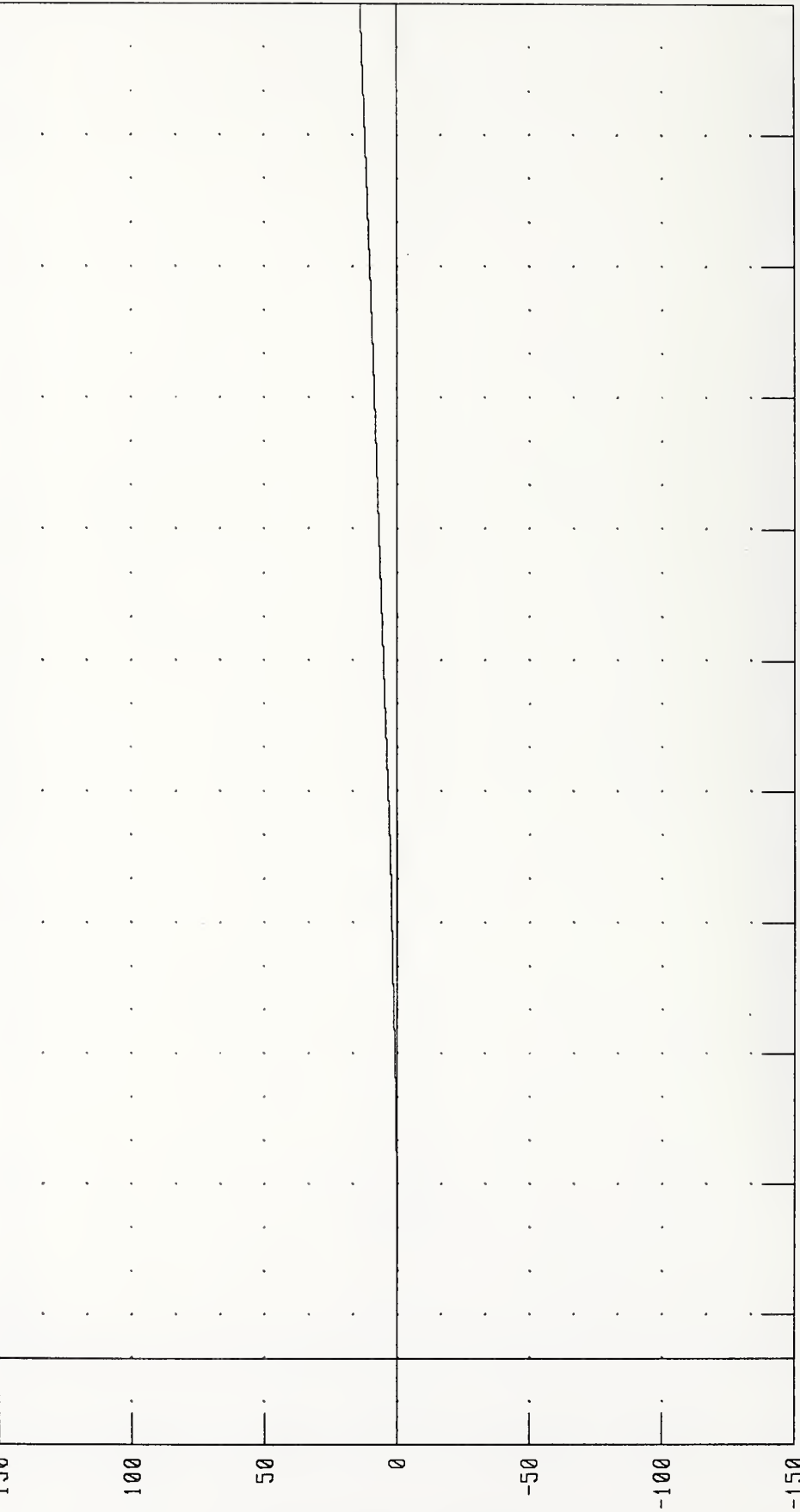
CHANNEL: TLRYV1 FILTER: CH CLASS 180 PEAK DATA: 2.27 KM/H @ 143.44 MS, -0.77 KM/H @ 36.40 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
 LEFT REAR SEAT Y-AXIS DISPLACEMENT

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC



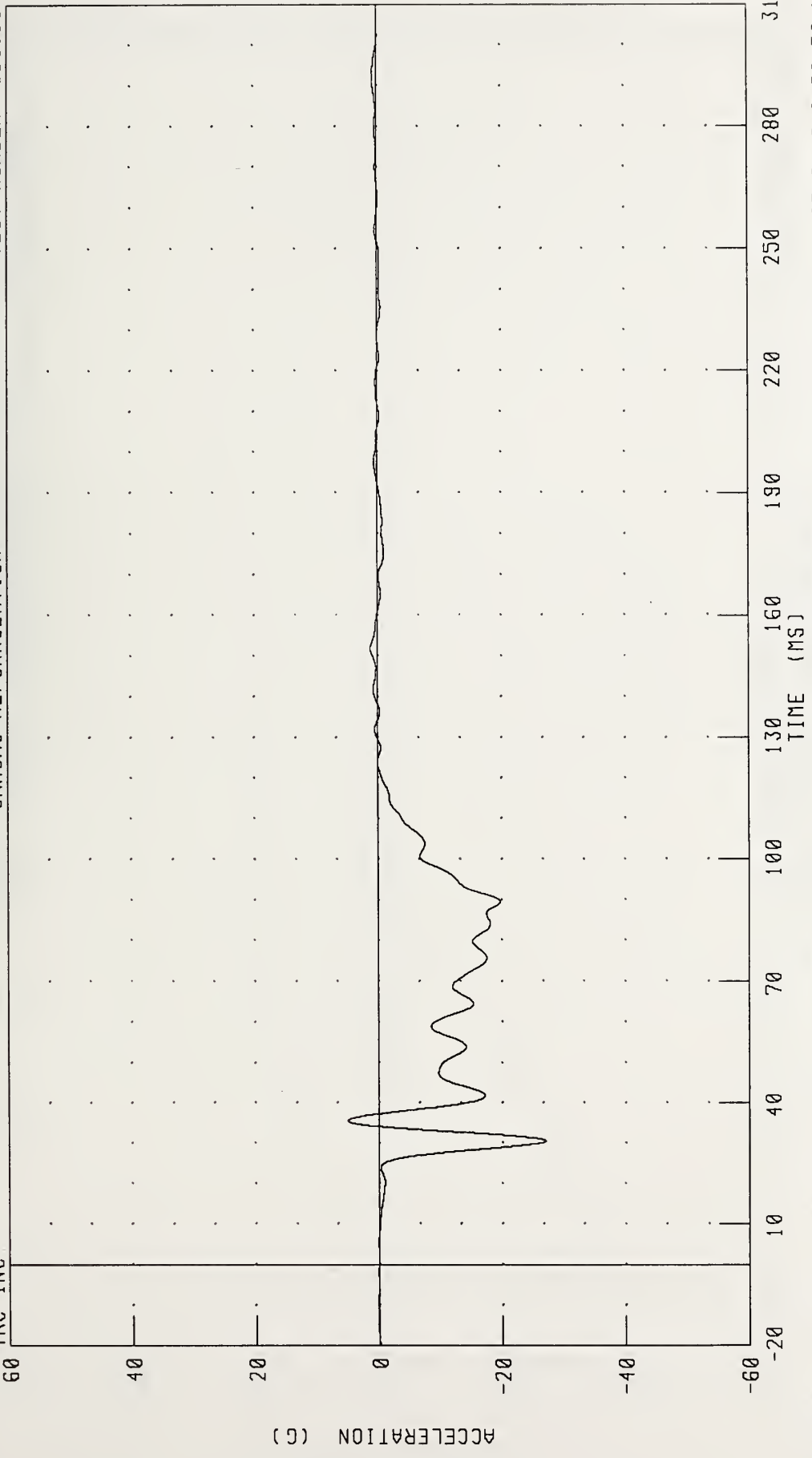
CHANNEL: TLRYD1 FILTER: CH CLASS 180

PEAK DATA: 137.26 MM @ 310.00 MS, 0.00 MM @ 0.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
RIGHT REAR SEAT X-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC

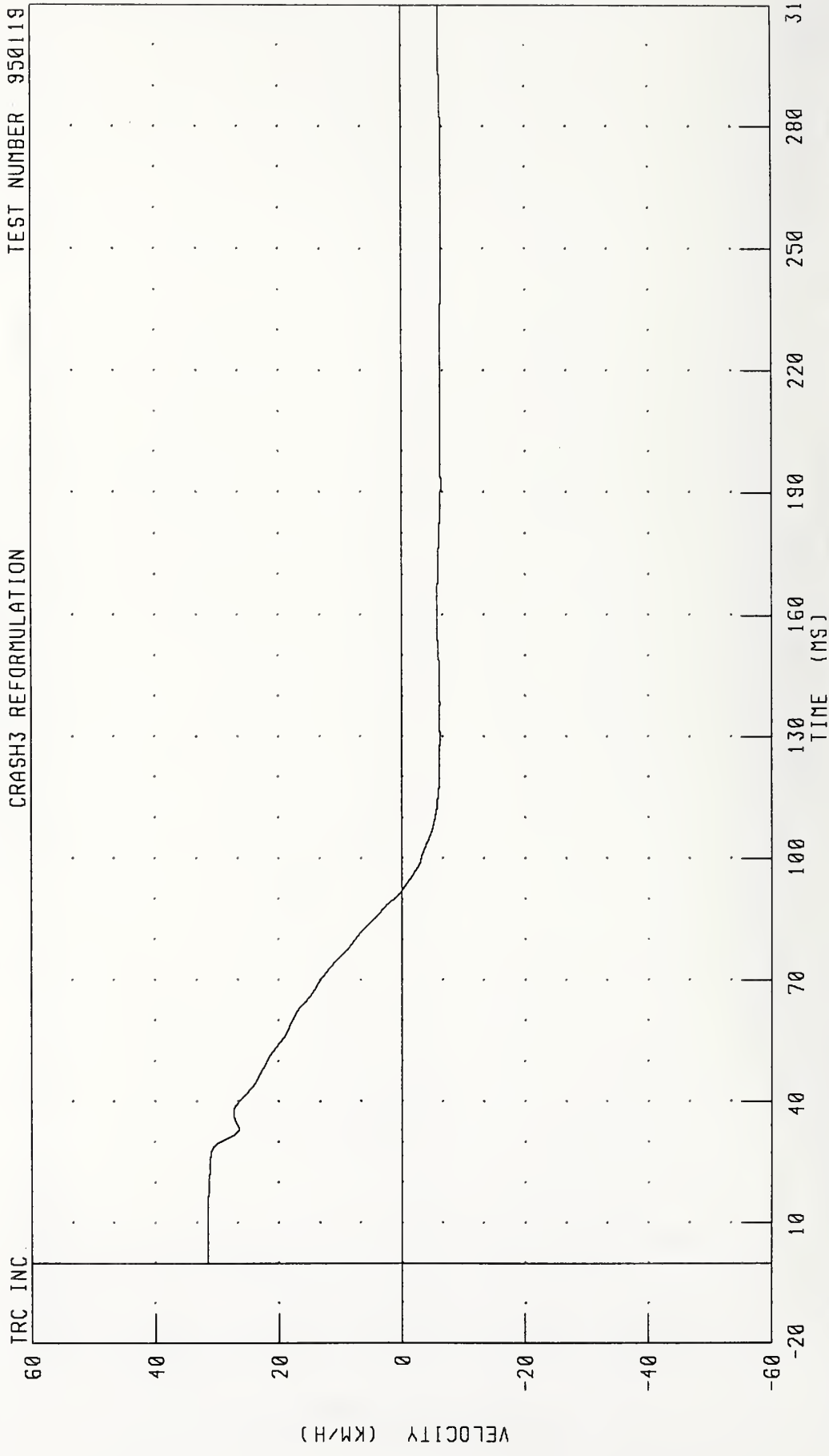


CHANNEL TRRXG1 FILTER CH CLASS 60

PEAK DATA: 5.13 G @ 35.52 MS; -27.04 G @ 30.56 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
RIGHT REAR SEAT X-AXIS VELOCITY

TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL: TRRXV1 FILTER: CH. CLASS 180 PEAK DATA: 31.52 KM/H @ 7.20 MS; -6.51 KM/H @ 252.16 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
RIGHT REAR SEAT X-AXIS DISPLACEMENT

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC

150

100

50

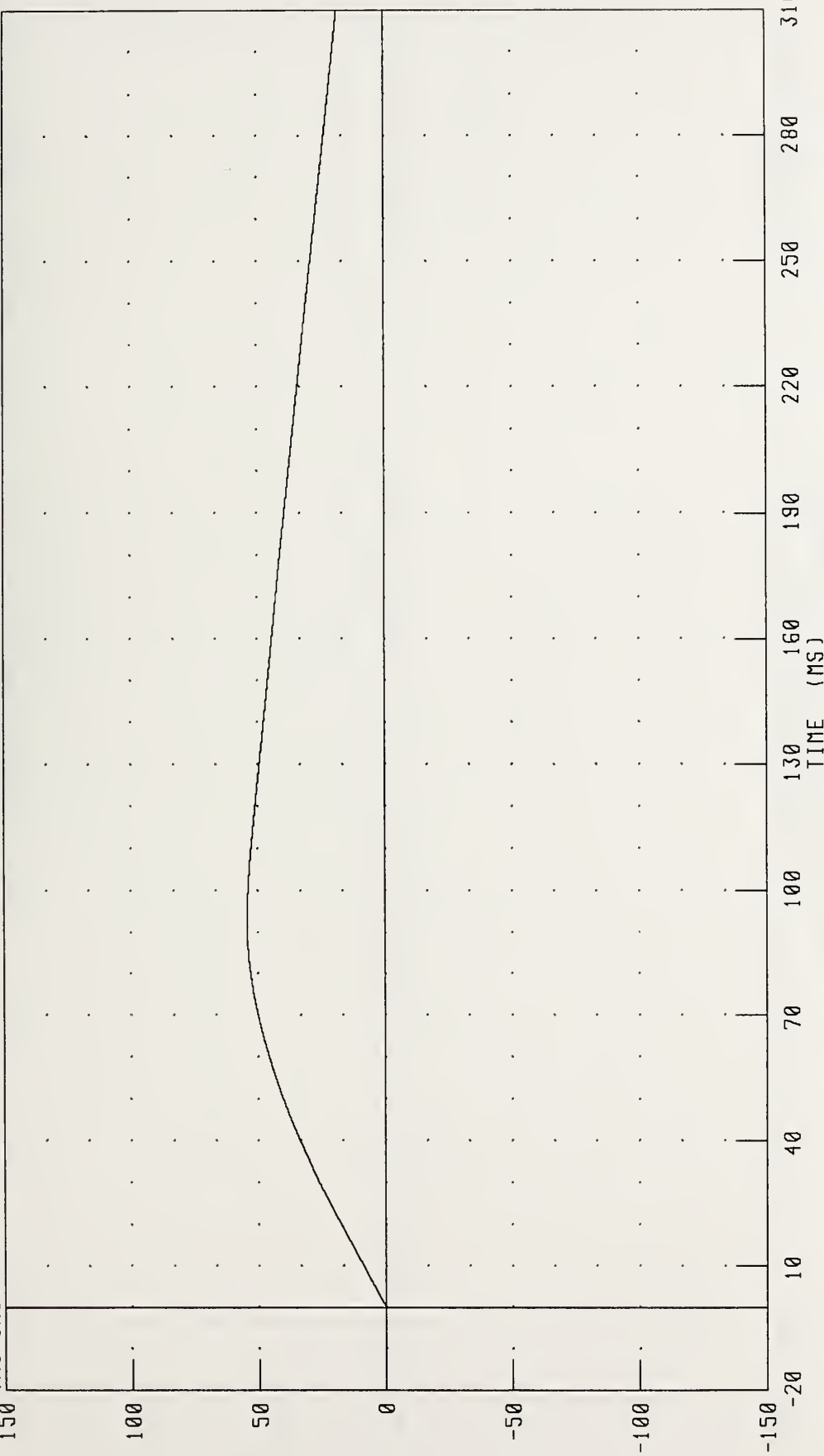
0

-50

-100

-150

DISPLACEMENT (MM X 10¹)



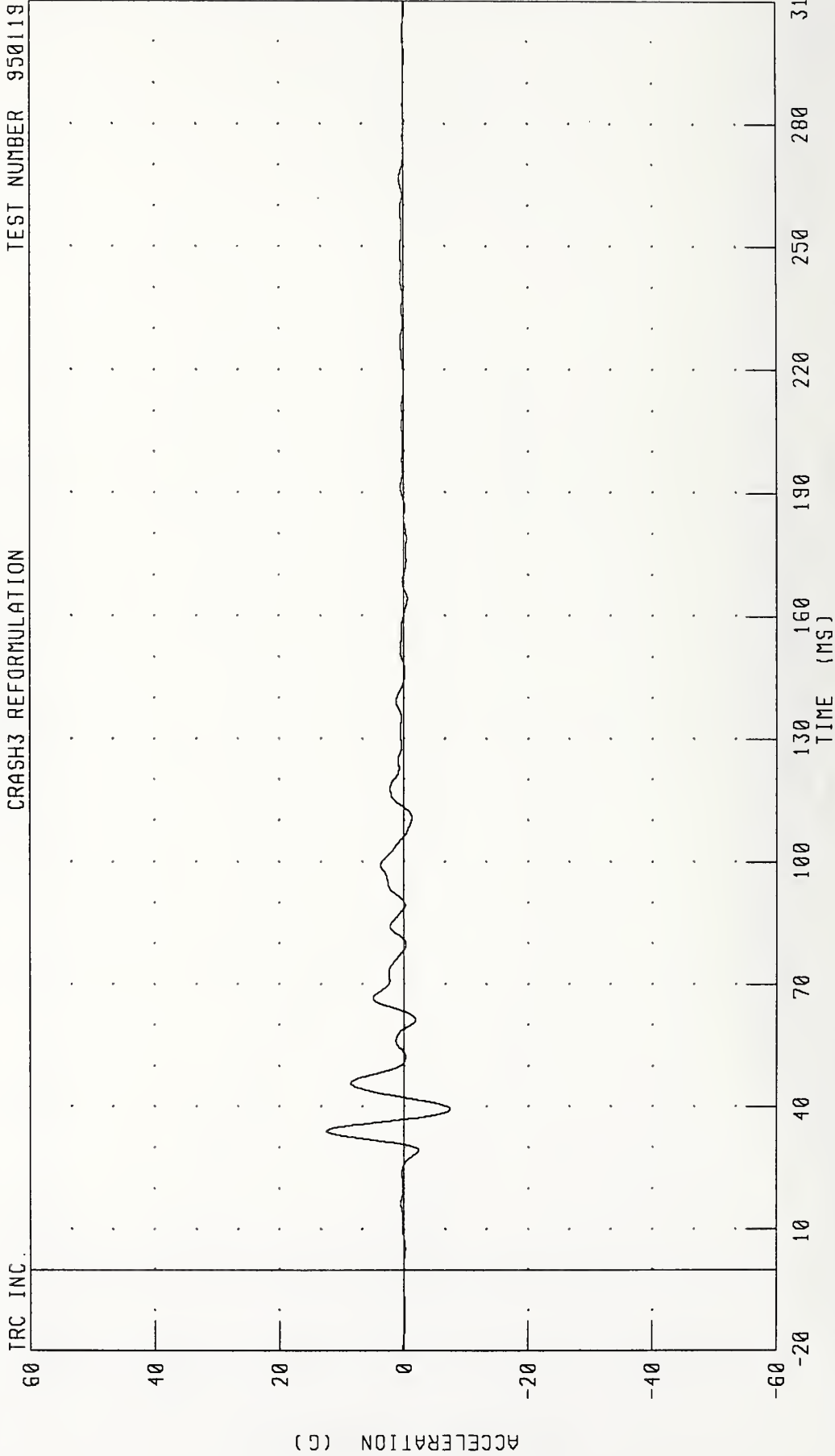
CHANNEL: TRRXD1 FILTER: CH CLASS 180

TIME (MS)

PEAK DATA: 543.38 MM @ 92.00 MS; 0.00 MM @ 0.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
RIGHT REAR SEAT Y-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL: TRRY61 FILTER: CH CLASS 60

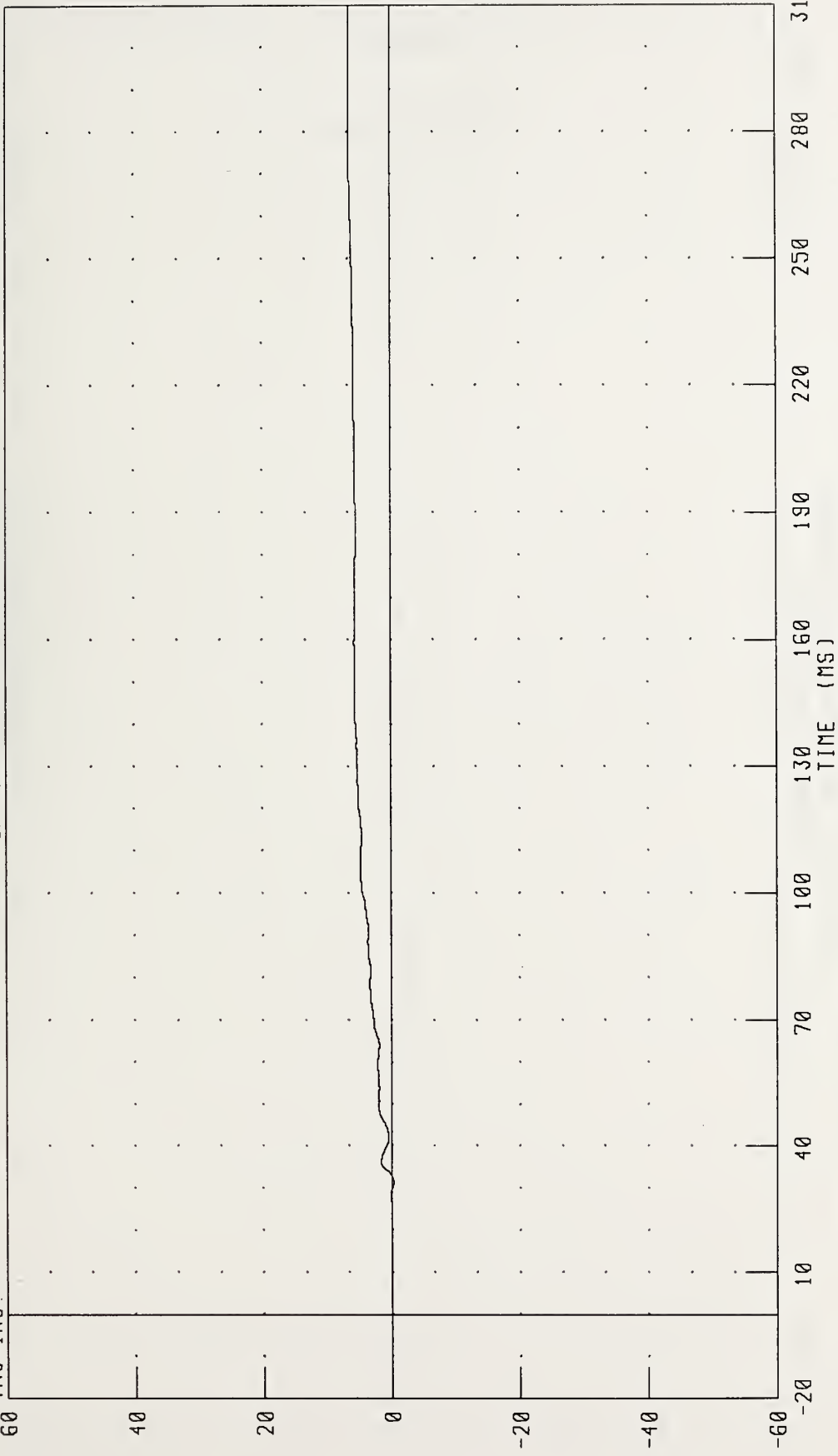
PEAK DATA 12.51 G @ 34.16 MS; -7.43 G @ 39.44 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5
RIGHT REAR SEAT Y-AXIS VELOCITY

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC.



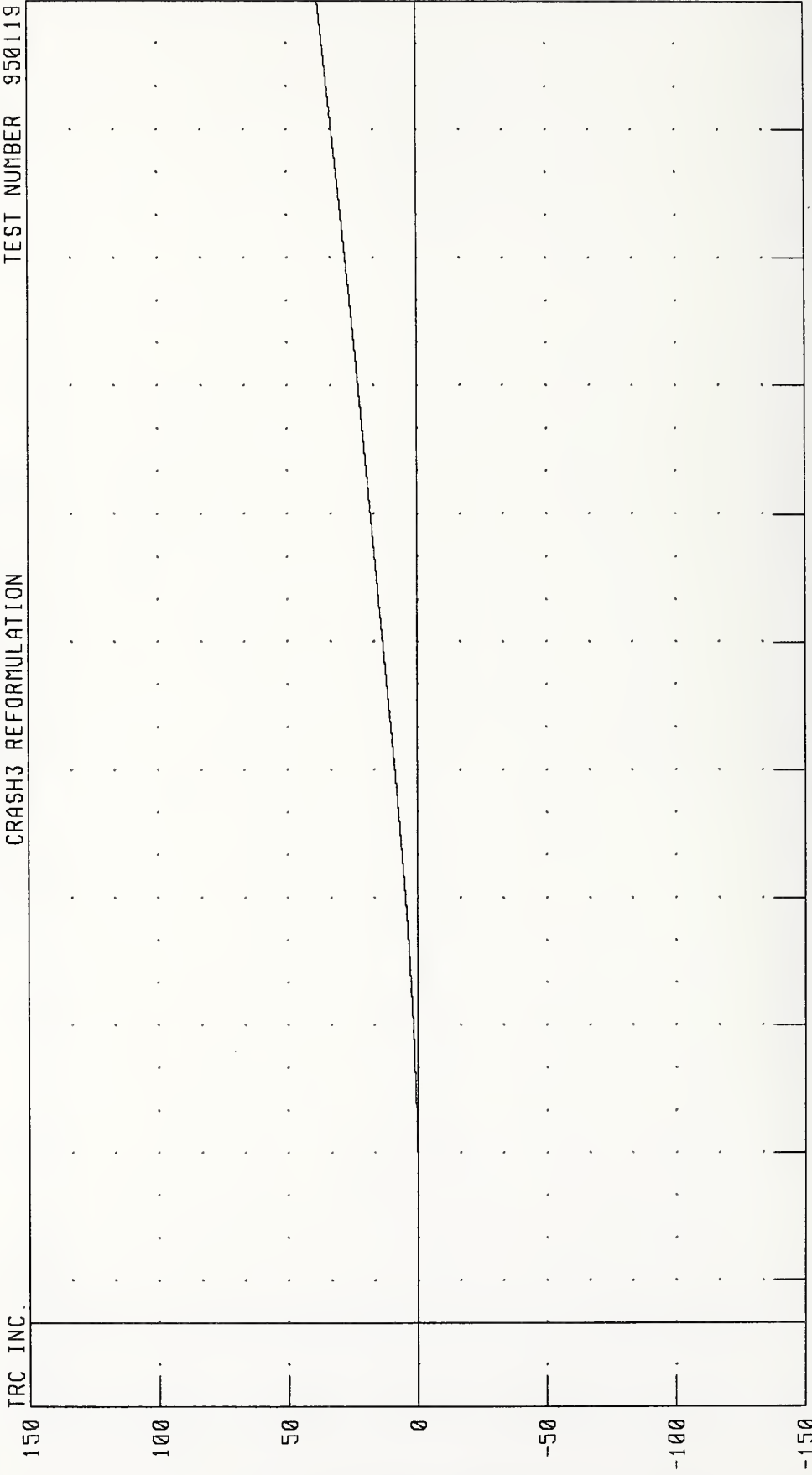
CHANNEL: TRRYV1 FILTER: CH CLASS 180 PEAK DATA: 6.41 KM/H @ 304.80 MS; -0.29 KM/H @ 31.44 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 4 OF 5

RIGHT REAR SEAT Y-AXIS DISPLACEMENT

CRASH3 REFORMULATION

TEST NUMBER 950119



CHANNEL: TRRYD1 FILTER: CH. CLASS 180

PEAK DATA: 380.62 MM @ 310.00 MS; -0.05 MM @ 15.28 MS

Data Plots

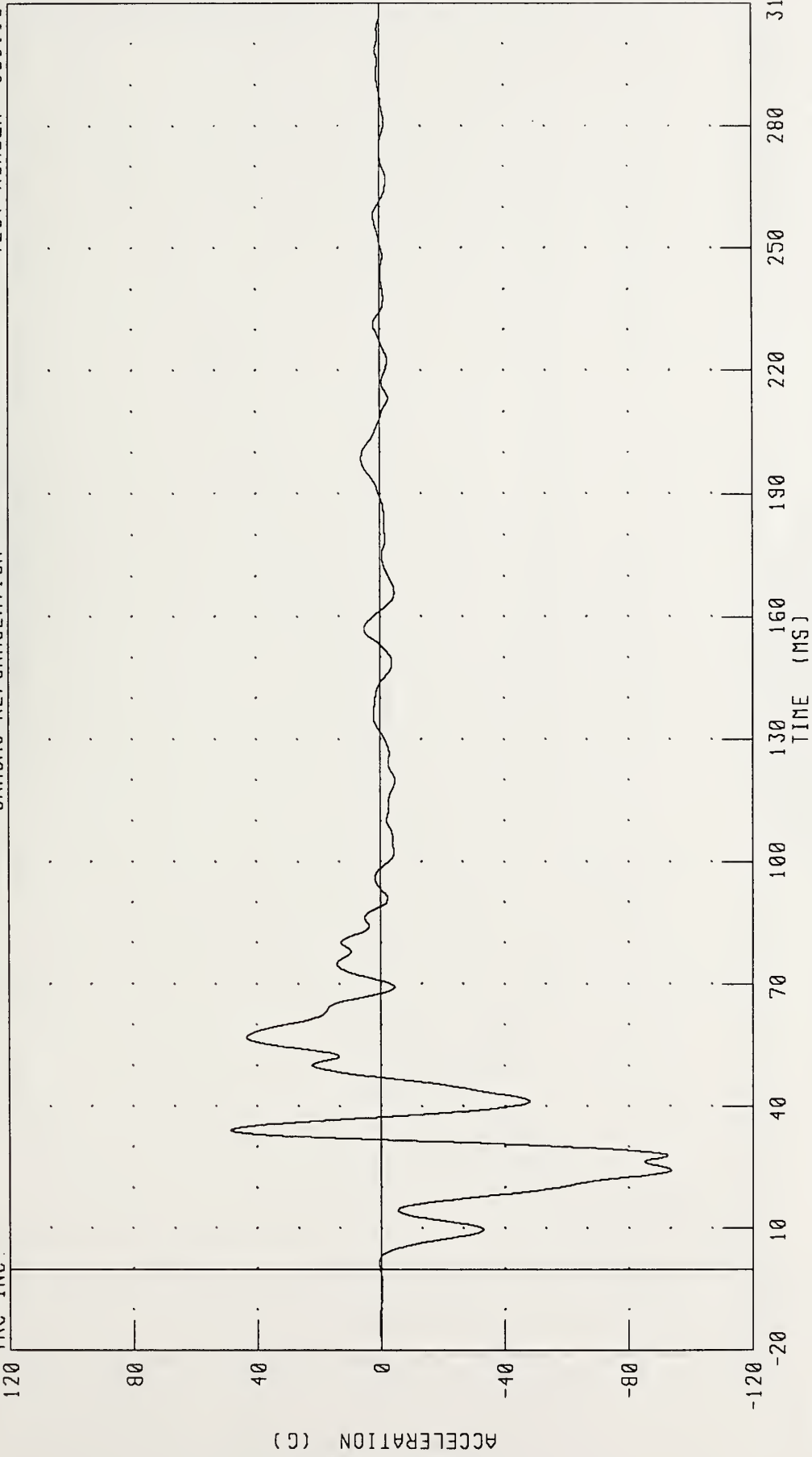
Test No. 950119-5



1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
VEHICLE CG X-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC.



CHANNEL: VCGXG1 FILTER: CH CLASS 60

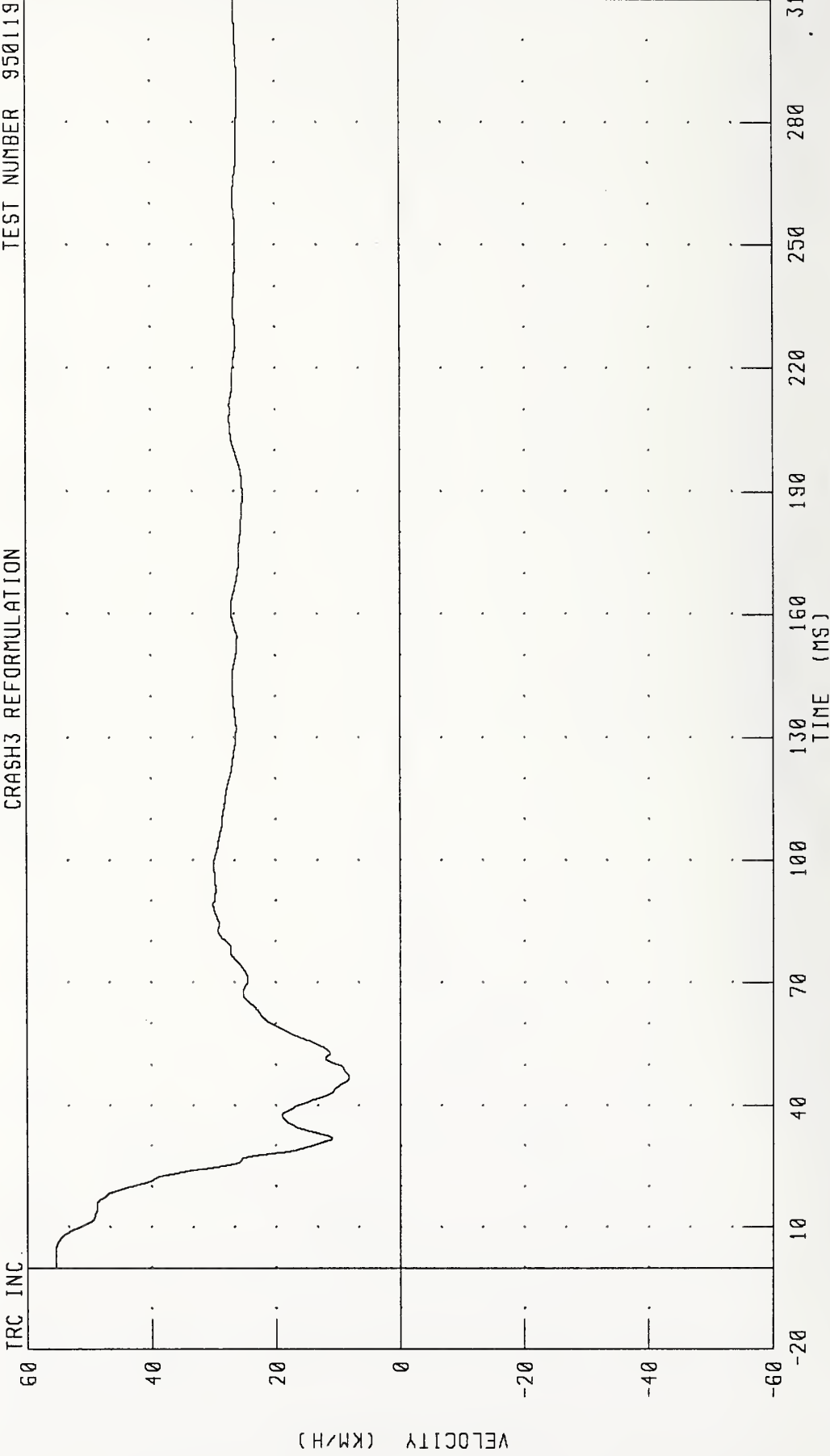
PEAK DATA: 48.71 G @ 34.16 MS, -93.65 G @ 24.32 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5

VEHICLE CG X-AXIS VELOCITY

CRASH3 REFORMULATION

TEST NUMBER 950119



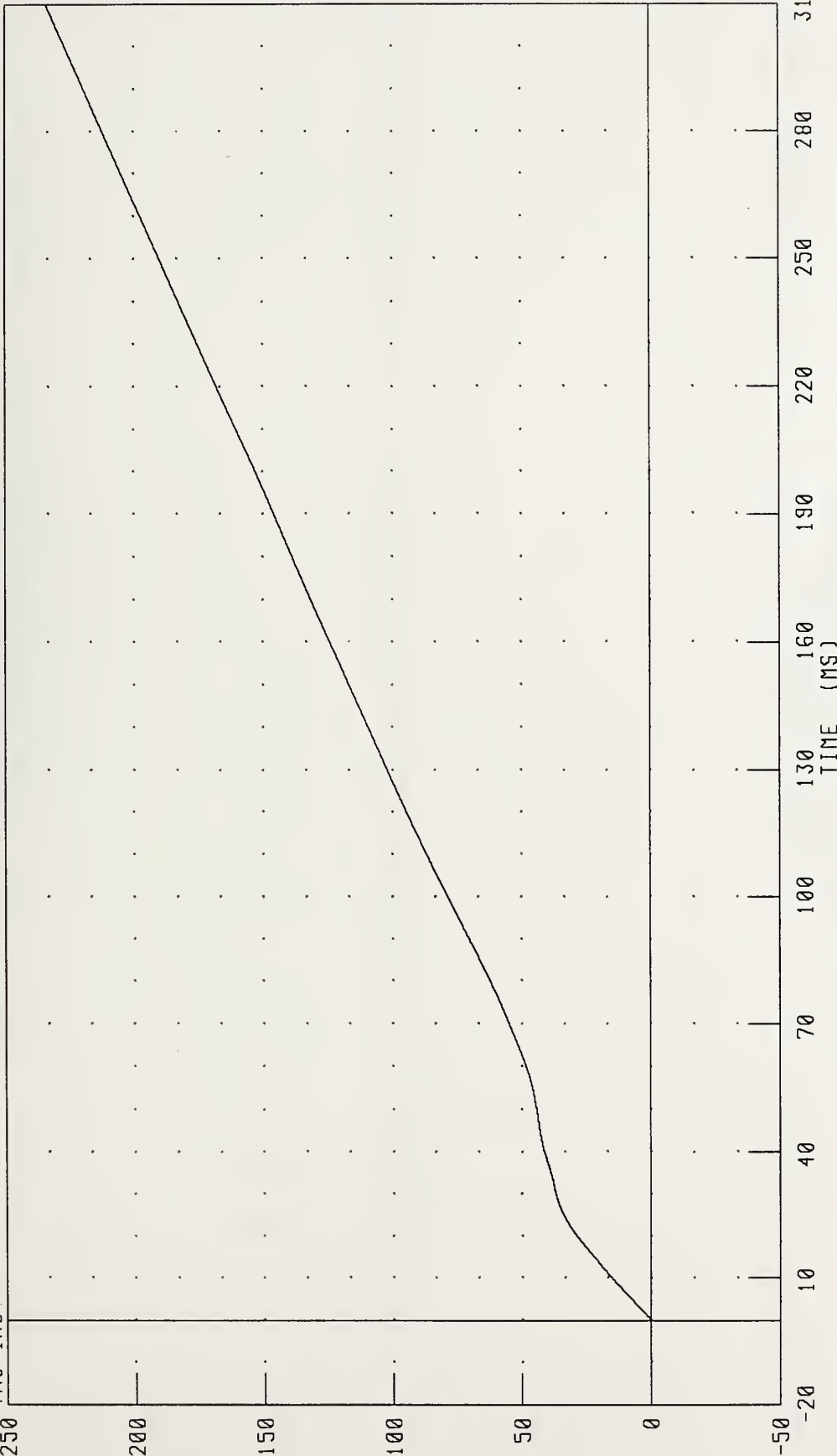
CHANNEL: VCGXV1 FILTER: CH CLASS 180

PEAK DATA: 55.42 KM/H @ 1.68 MS; 8.23 KM/H @ 46.88 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
 VEHICLE CG X-AXIS DISPLACEMENT
 CRASH3 REFORMULATION

TEST NUMBER: 950119

TRC INC



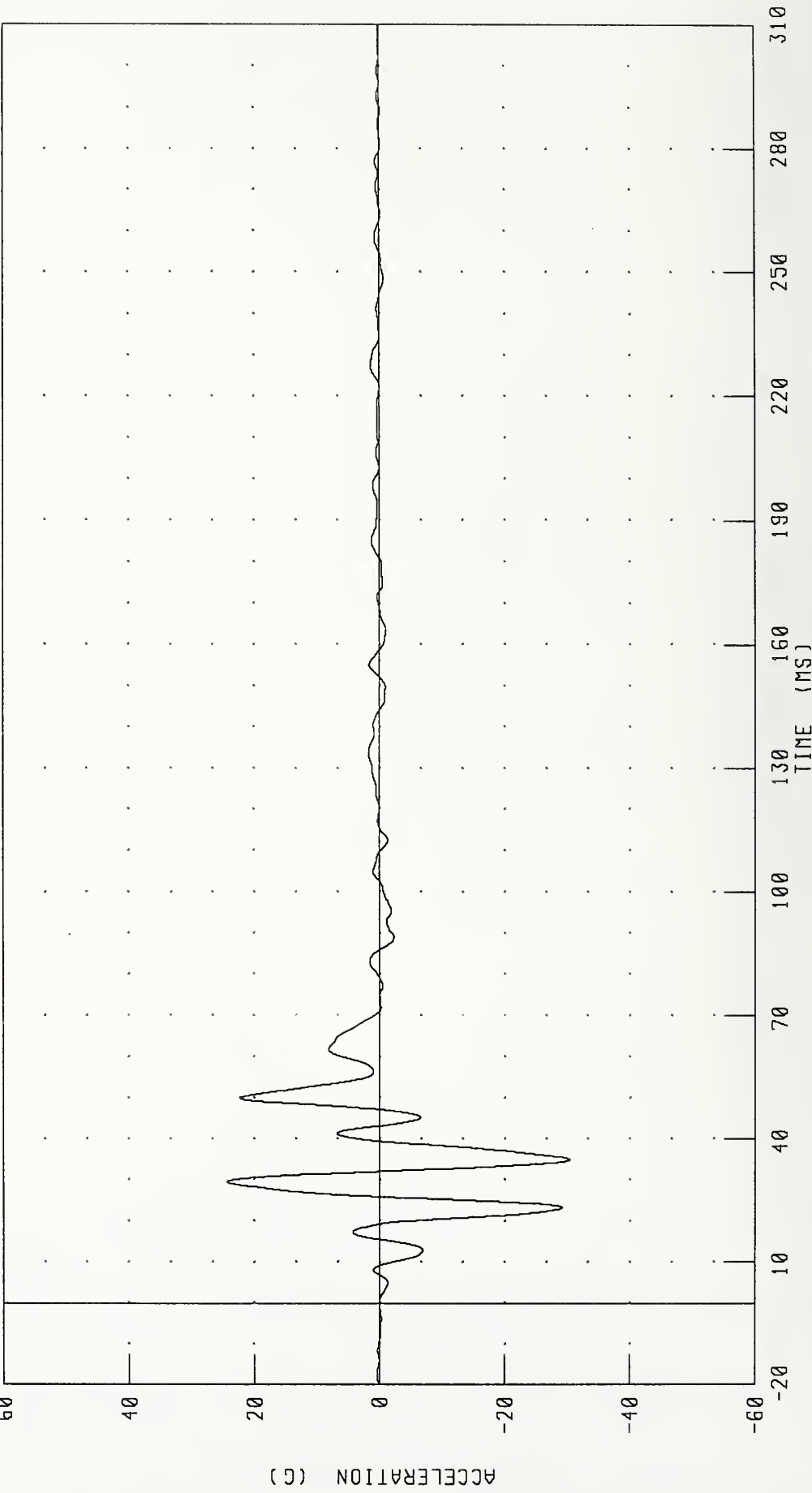
CHANNEL: VCGXD1 FILTER: CH CLASS 180

PEAK DATA: 2340.60 MM @ 310.00 MS; 0.00 MM @ 0.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
VEHICLE CG Y-AXIS ACCELERATION
CRASH3 REFORMULATION

TEST NUMBER: 950119

TRC INC.

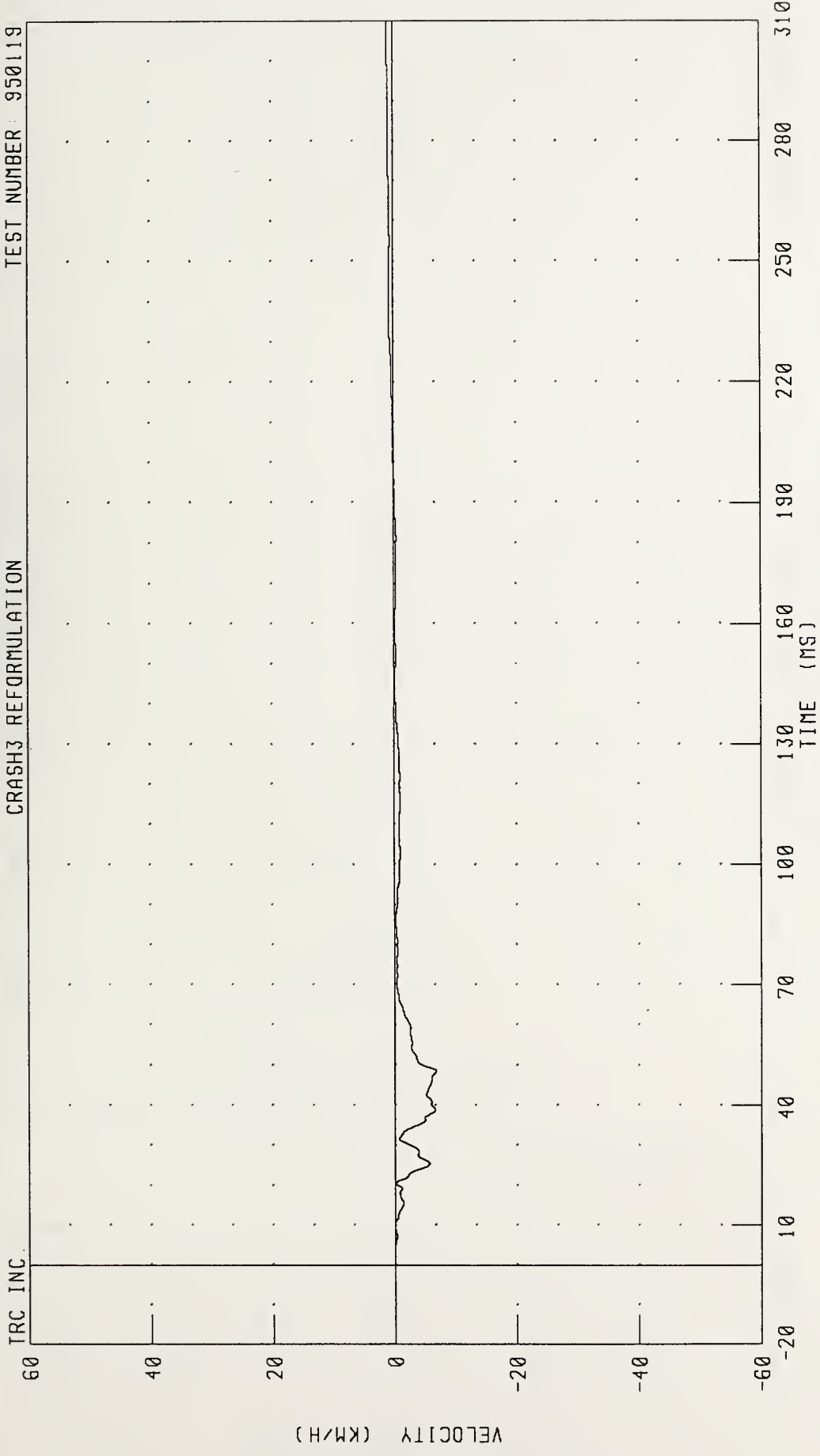


CHANNEL: VCGYG1 FILTER: CH CLASS 60 PEAK DATA: 24 38 G @ 29 52 MS; -30 42 G @ 34 96 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
VEHICLE CG Y-AXIS VELOCITY

TEST NUMBER: 950119

CRASH3 REFORMULATION



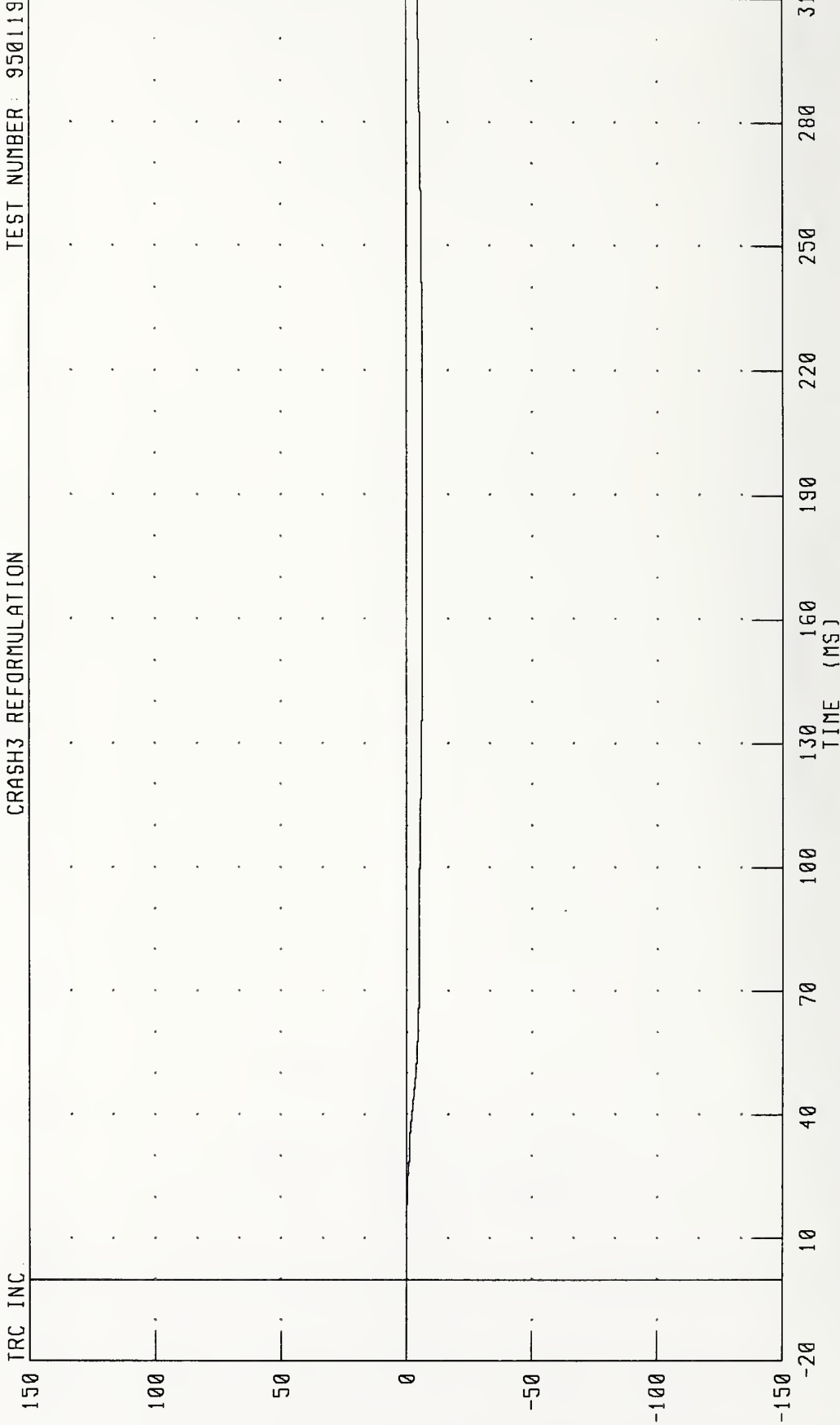
CHANNEL: VCGYV1 FILTER: CH. CLASS 180

PEAK DATA 1.01 KM/H @ 308 48 MS, -6 B1 KM/H @ 48.48 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
 VEHICLE CG Y-AXIS DISPLACEMENT

TRC INC. TEST NUMBER: 950119

CRASH3 REFORMULATION

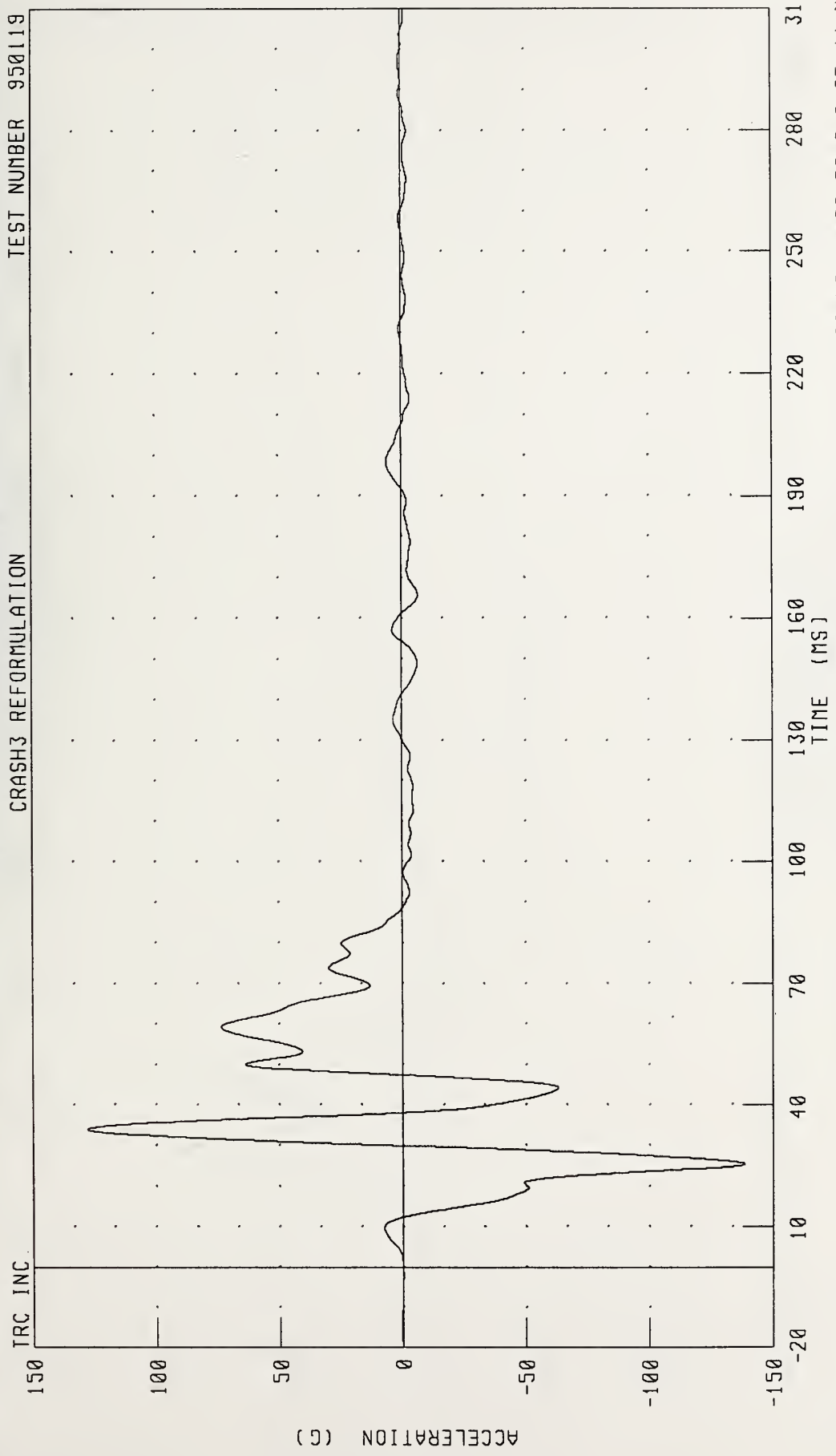


CHANNEL: YCGYD1 FILTER: CH CLASS 180

PEAK DATA: 0.01 MM @ 2.88 MS, -65.26 MM @ 198.00 MS

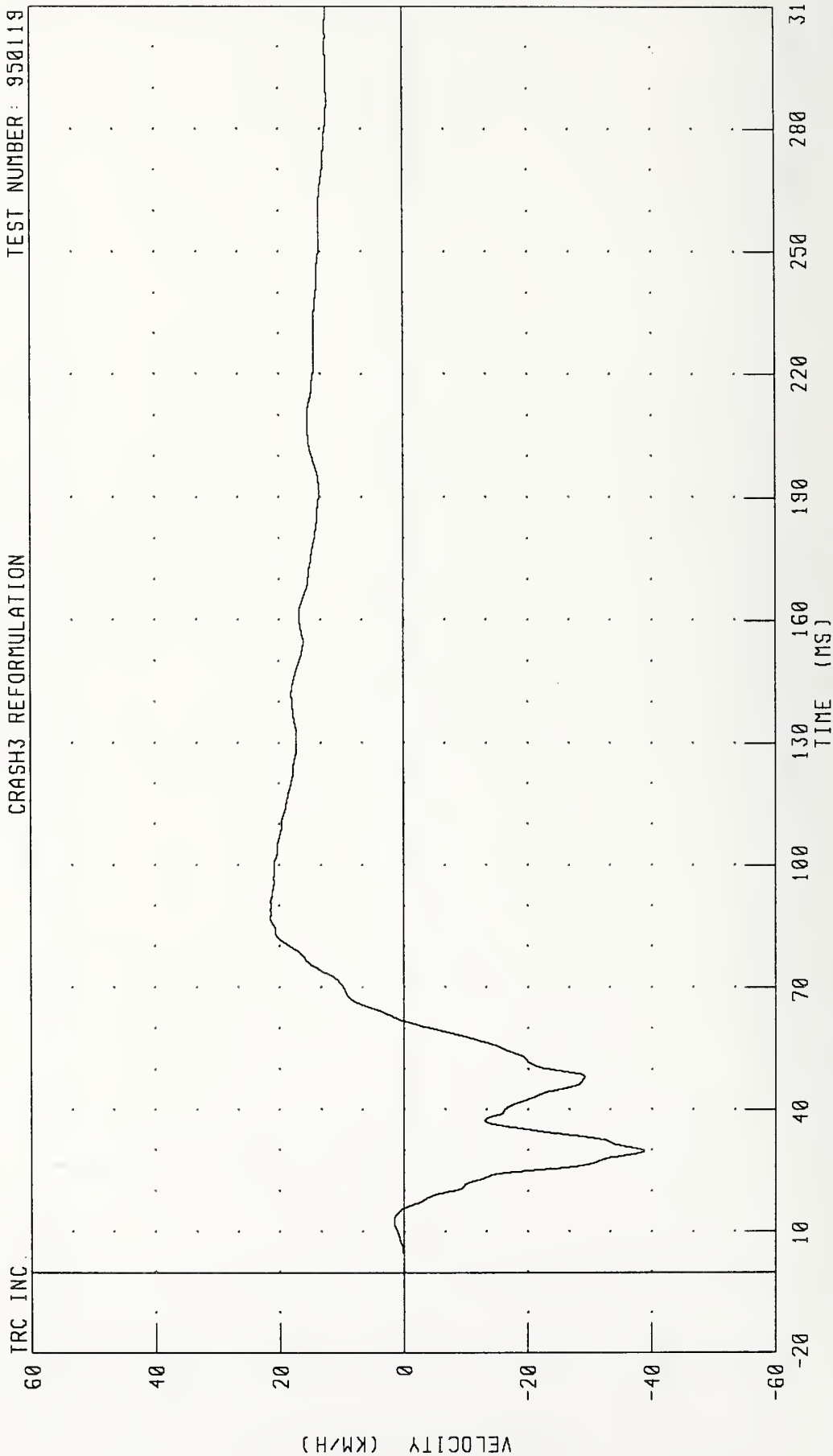
1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
VEHICLE CG Z-AXIS ACCELERATION
CRASH3 REFORMULATION

TEST NUMBER 950119



CHANNEL VCGZG1 FILTER CH CLASS 60 PEAK DATA: 128.00 G @ 34.00 MS, -138.59 G @ 254.44 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
VEHICLE CG Z-AXIS VELOCITY
CRASH3 REFORMULATION

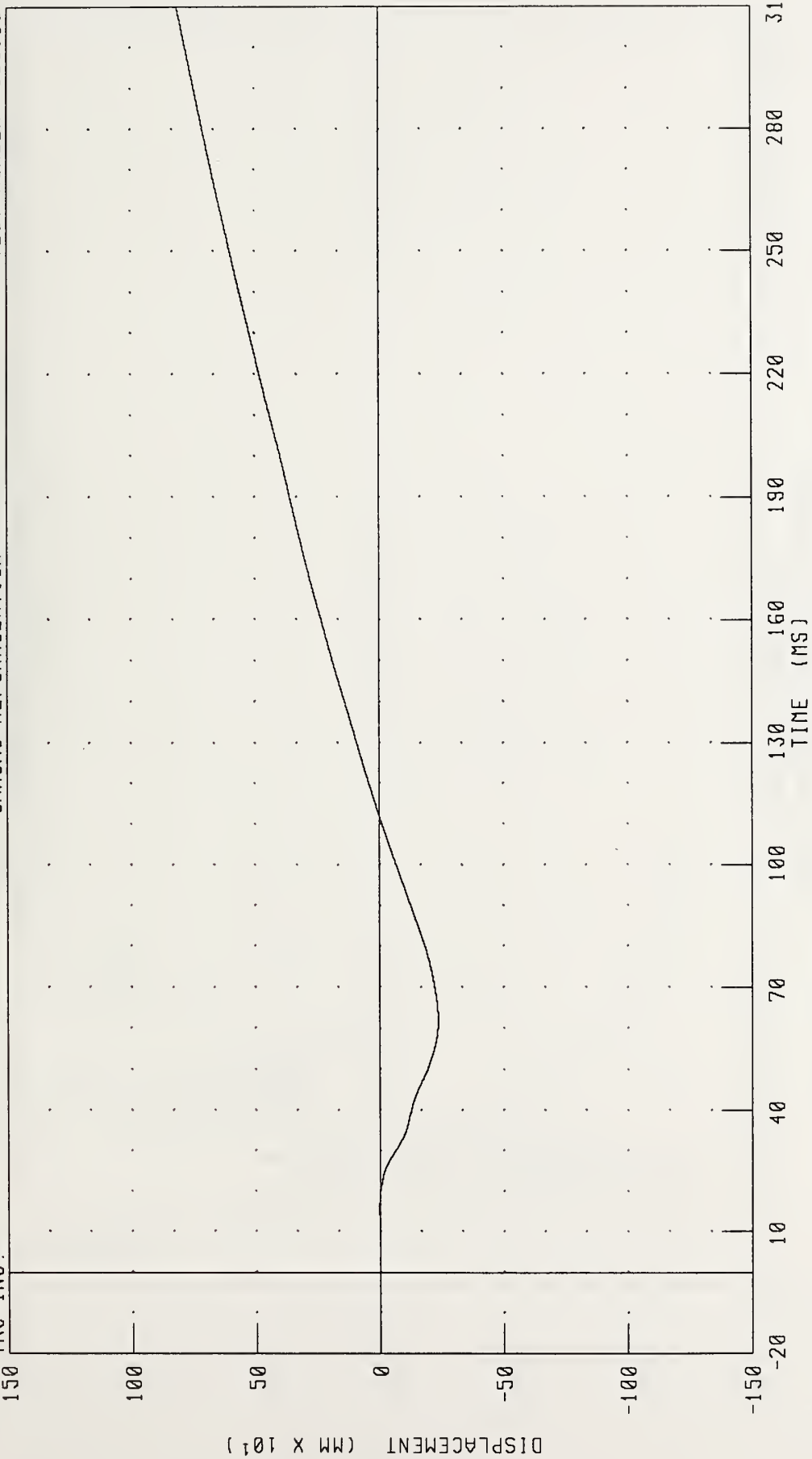


CHANNEL: VCGZV1 FILTER: CH. CLASS 180
PEAK DATA: 21.48 KM/H @ 86.96 MS; -38.85 KM/H @ 29.84 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
VEHICLE CG Z-AXIS DISPLACEMENT

CRASH3 REFORMULATION
TEST NUMBER 950119

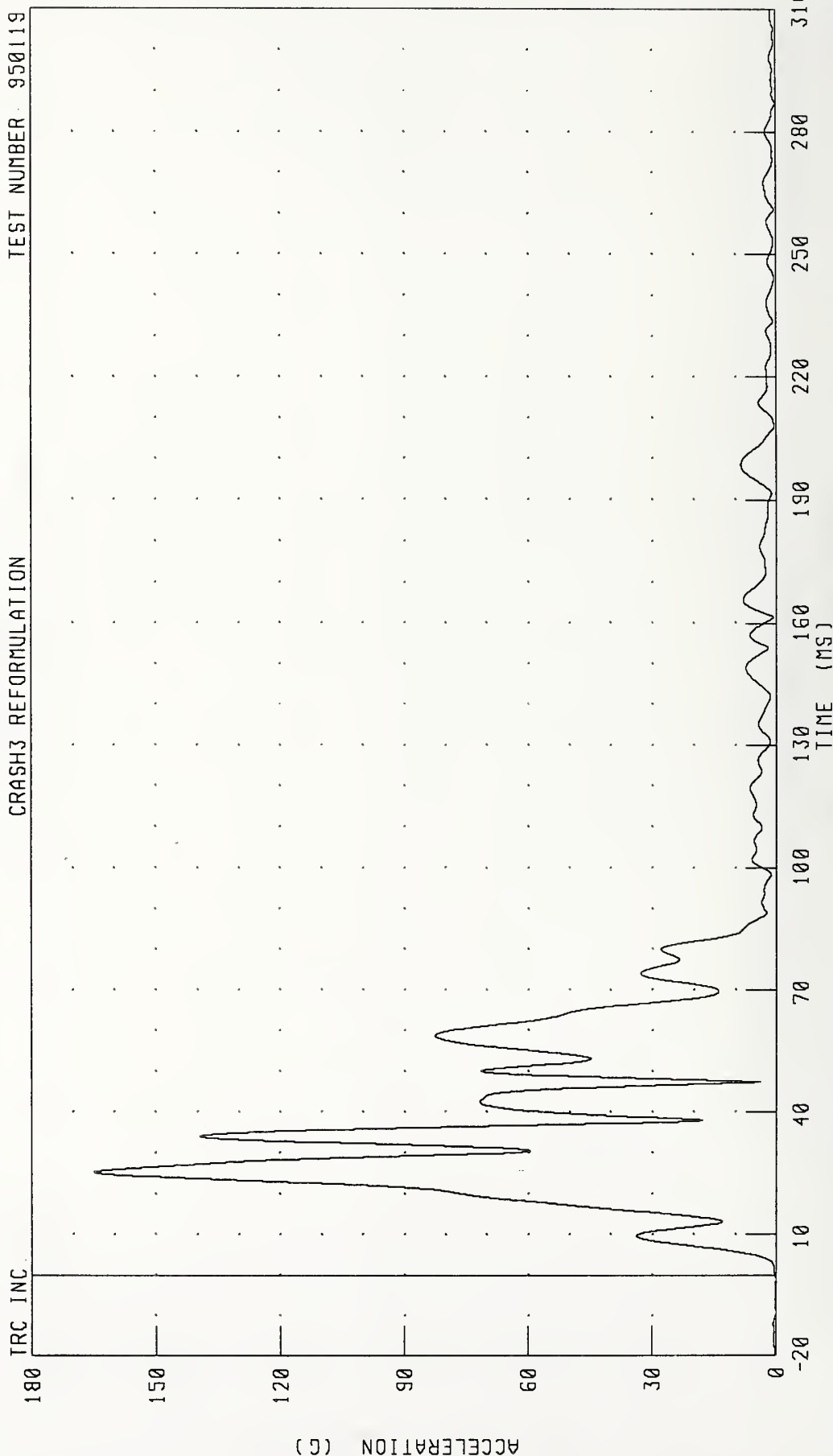
TRC INC.



CHANNEL: VCGZ01 FILTER: CH. CLASS 180

PEAK DATA: 813.43 MM @ 310.00 MS; -235.80 MM @ 61.76 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
VEHICLE CG RESULTANT ACCELERATION
CRASH3 REFORMULATION



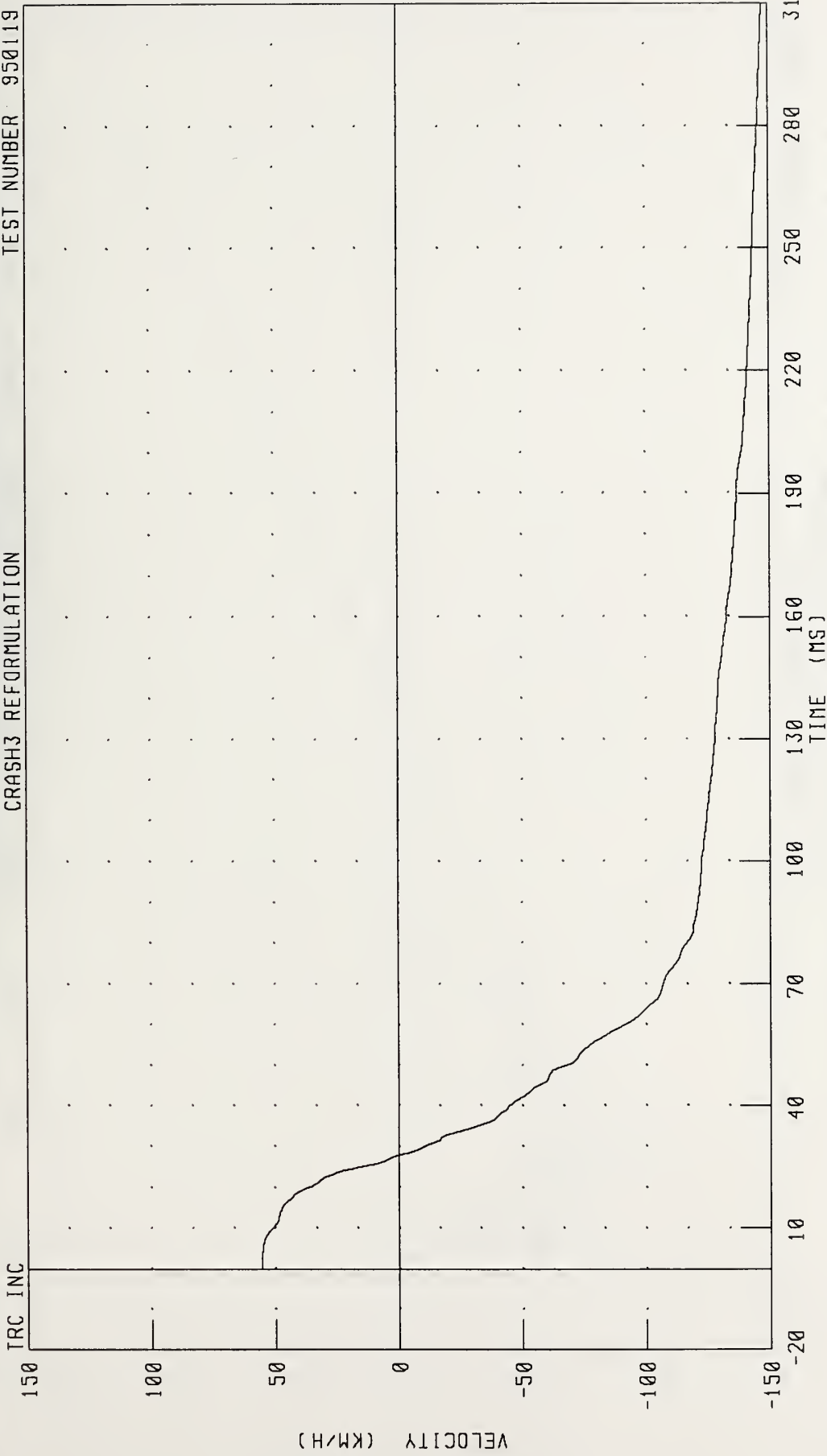
TRC INC.

TEST NUMBER: 950119

CHANNEL: VCGRG1 FILTER: CH CLASS 60 PEAK DATA: 165.05 G @ 25.28 MS; 0.10 G @ -9.28 MS

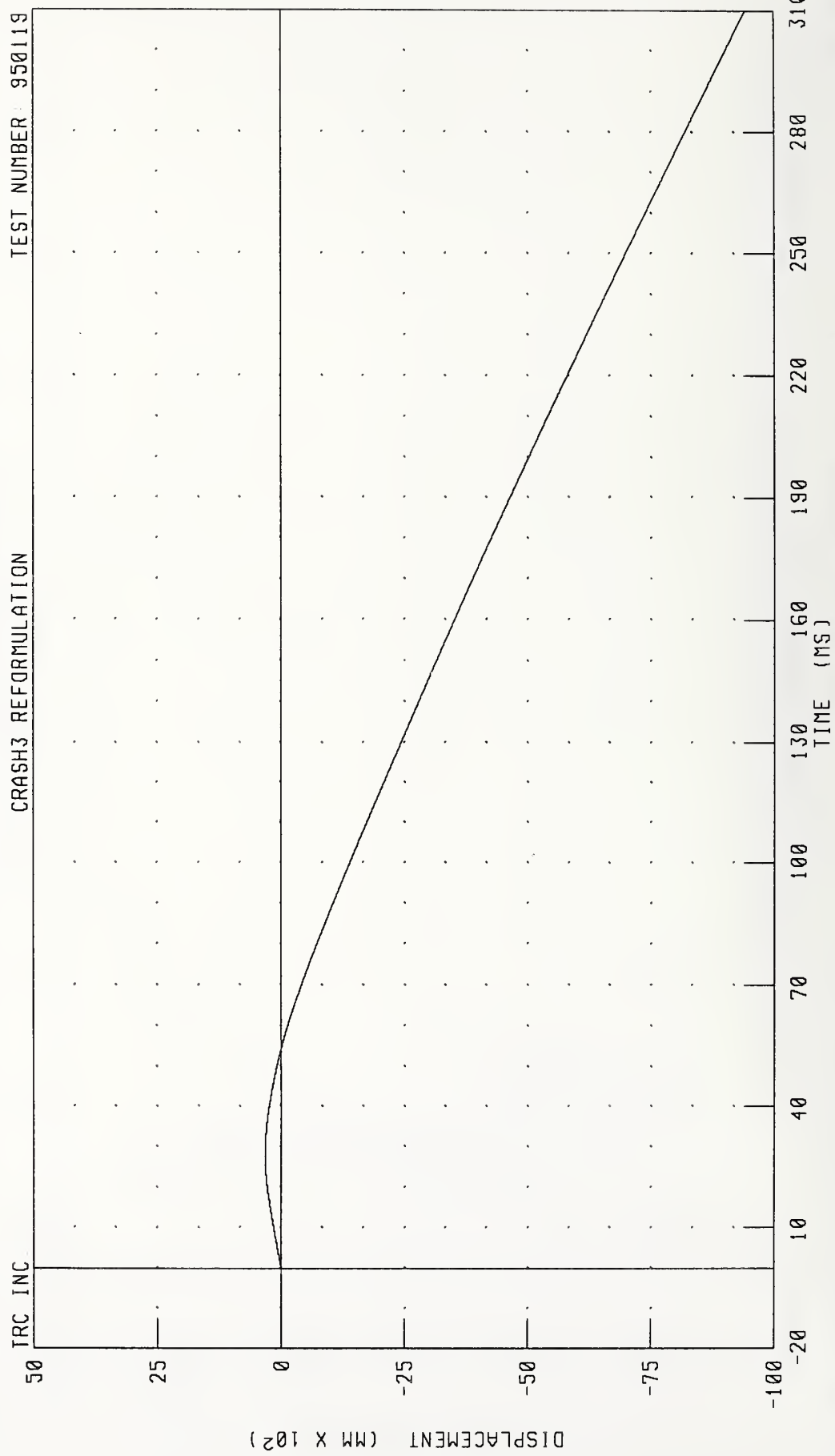
1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
VEHICLE CG RESULTANT VELOCITY
CRASH3 REFORMULATION

TEST NUMBER 950119



CHANNEL VCGRV1 FILTER: CH CLASS 180 PEAK DATA: 55.40 KM/H @ 0 00 MS, -147 20 KM/H @ 310 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
VEHICLE CG RESULTANT DISPLACEMENT

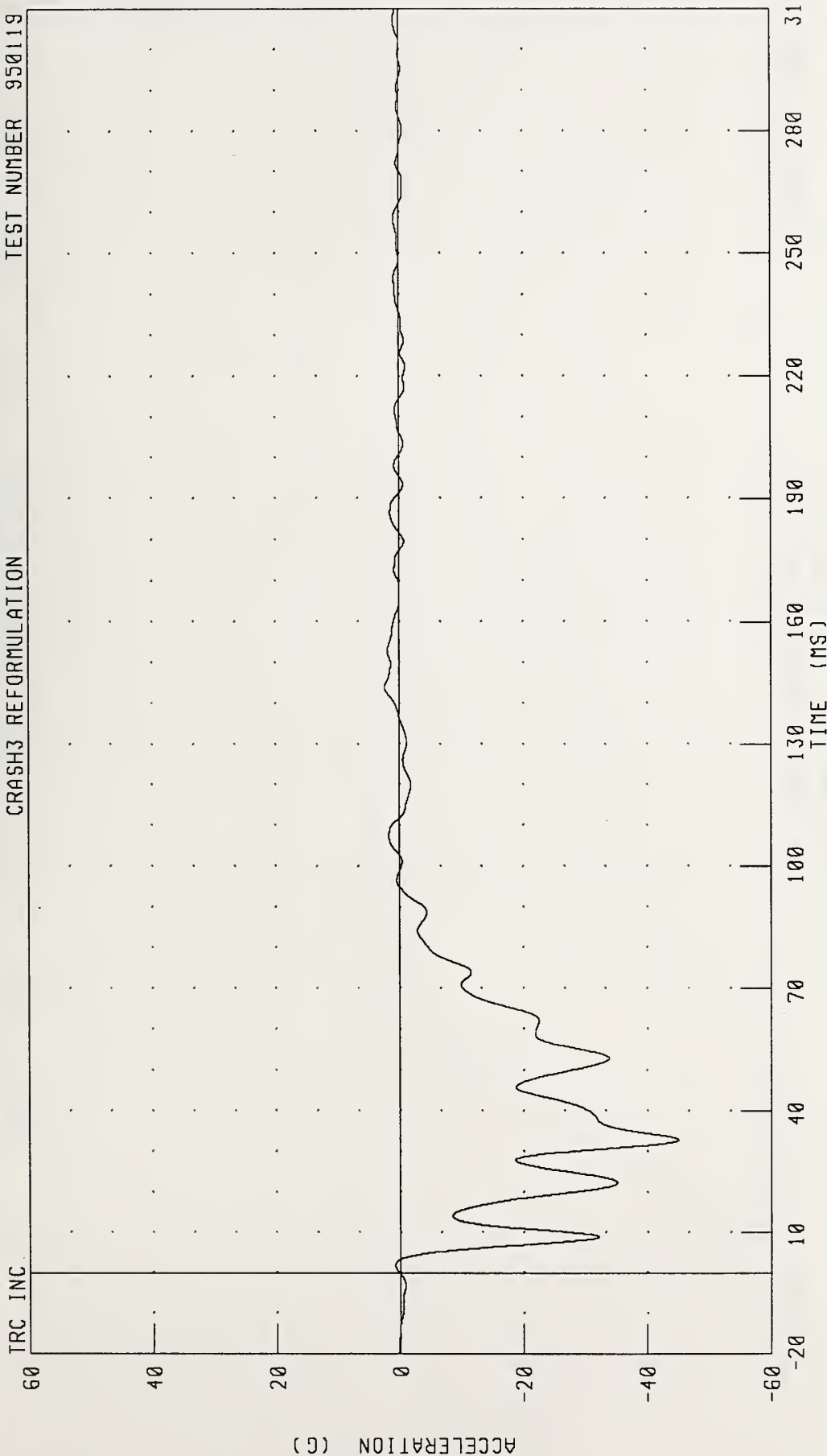


CHANNEL: VCGRD1 FILTER: CH CLASS 180 PEAK DATA: 324 18 MM @ 27.92 MS; -9408.73 MM @ 310.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
LEFT FRONT SILL X-AXIS ACCELERATION

CRASH3 REFORMULATION

TEST NUMBER 950119

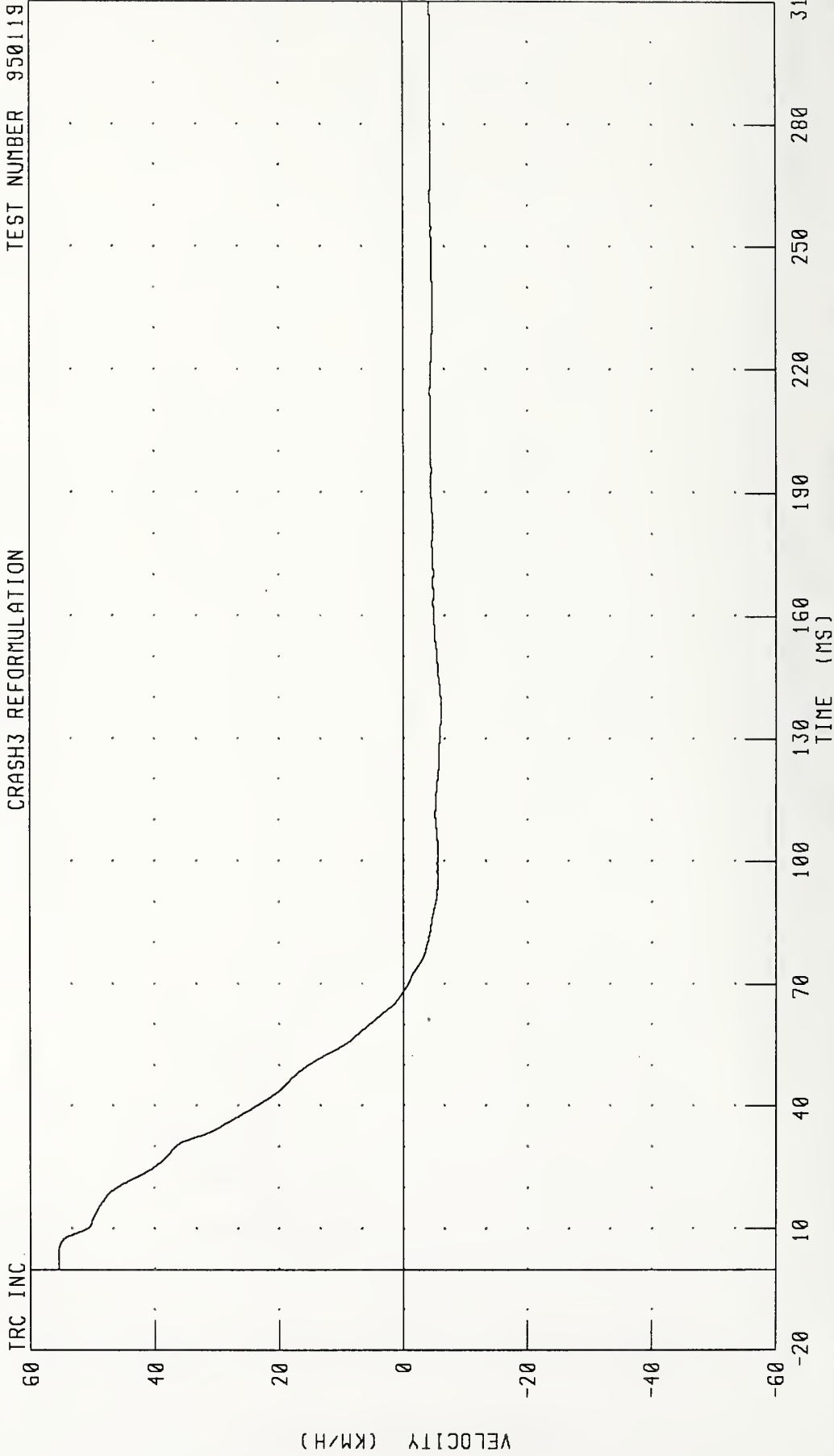


CHANNEL: LFSXG1 FILTER: CH CLASS 60

PEAK DATA: 2.36 G @ 143.92 MS; -44.99 G @ 32.80 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
LEFT FRONT SILL X-AXIS VELOCITY

CRASH3 REFORMULATION TEST NUMBER 950119



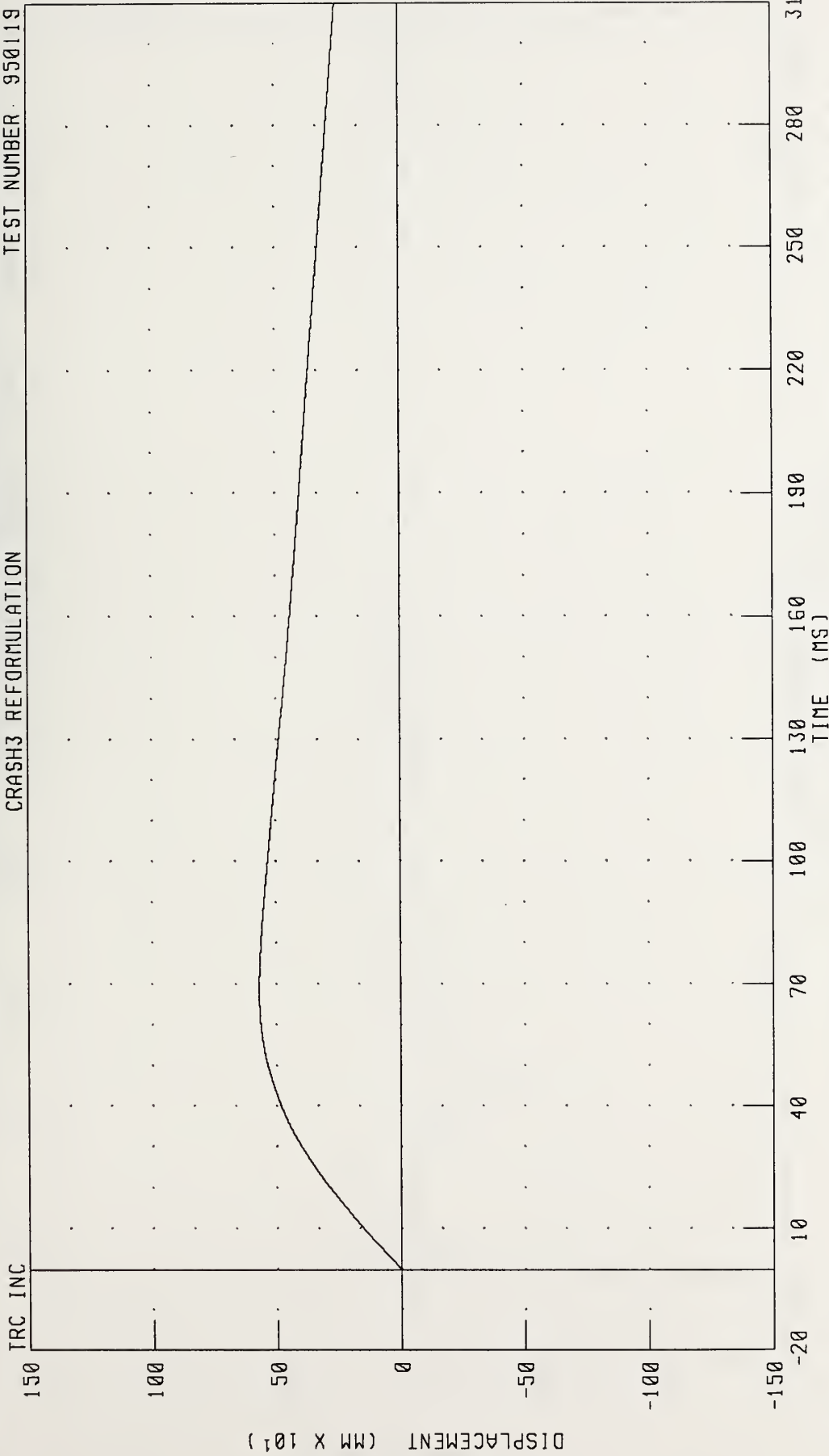
CHANNEL: LFSXV1 FILTER: CH. CLASS 180

PEAK DATA: 55.42 KM/H @ 1.84 MS; -6.06 KM/H @ 135.84 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
LEFT FRONT SILL X-AXIS DISPLACEMENT

CRASH3 REFORMULATION

TEST NUMBER 950119



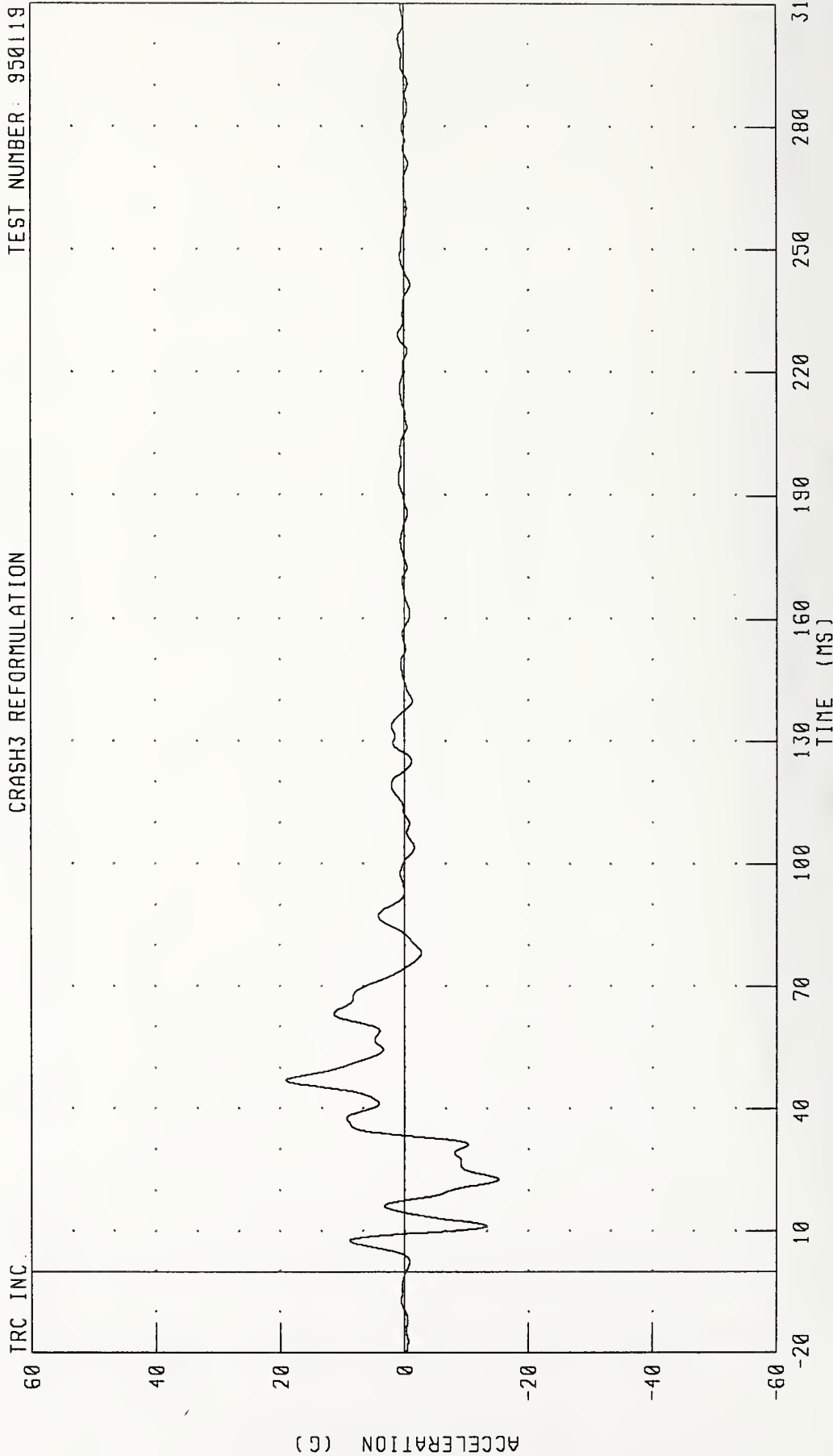
CHANNEL LFSXD1 FILTER CH CLASS 180

TIME (MS)

PEAK DATA: 570.39 MM @ 68.16 MS; 0.00 MM @ 0.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
LEFT FRONT SILL Y-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER: 950119



CHANNEL: LFSYG1 FILTER: CH. CLASS 60

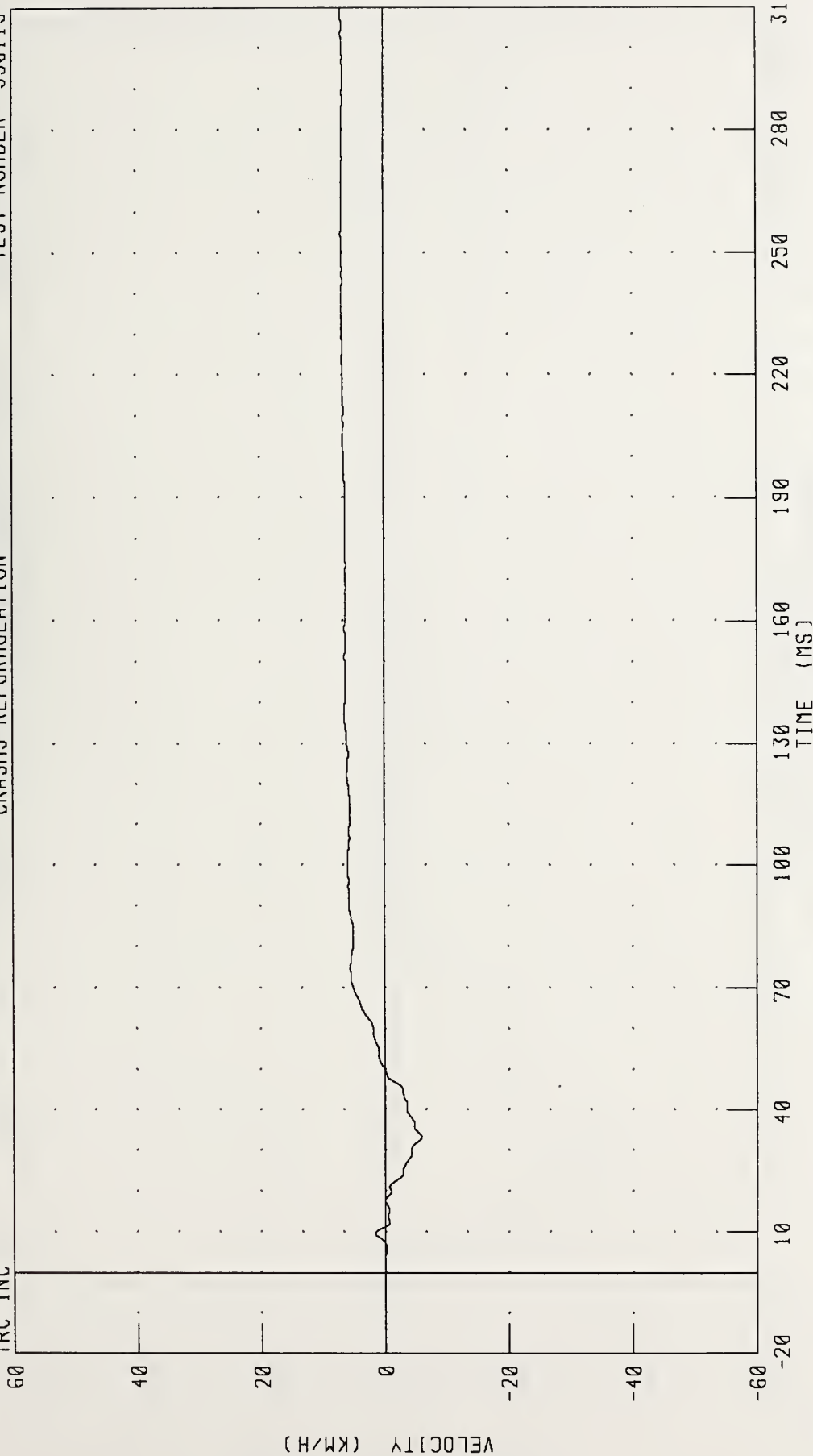
PEAK DATA: 19.10 G @ 46.96 MS, -15.23 G @ 22.72 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
LEFT FRONT SILL Y-AXIS VELOCITY

TEST NUMBER: 950119

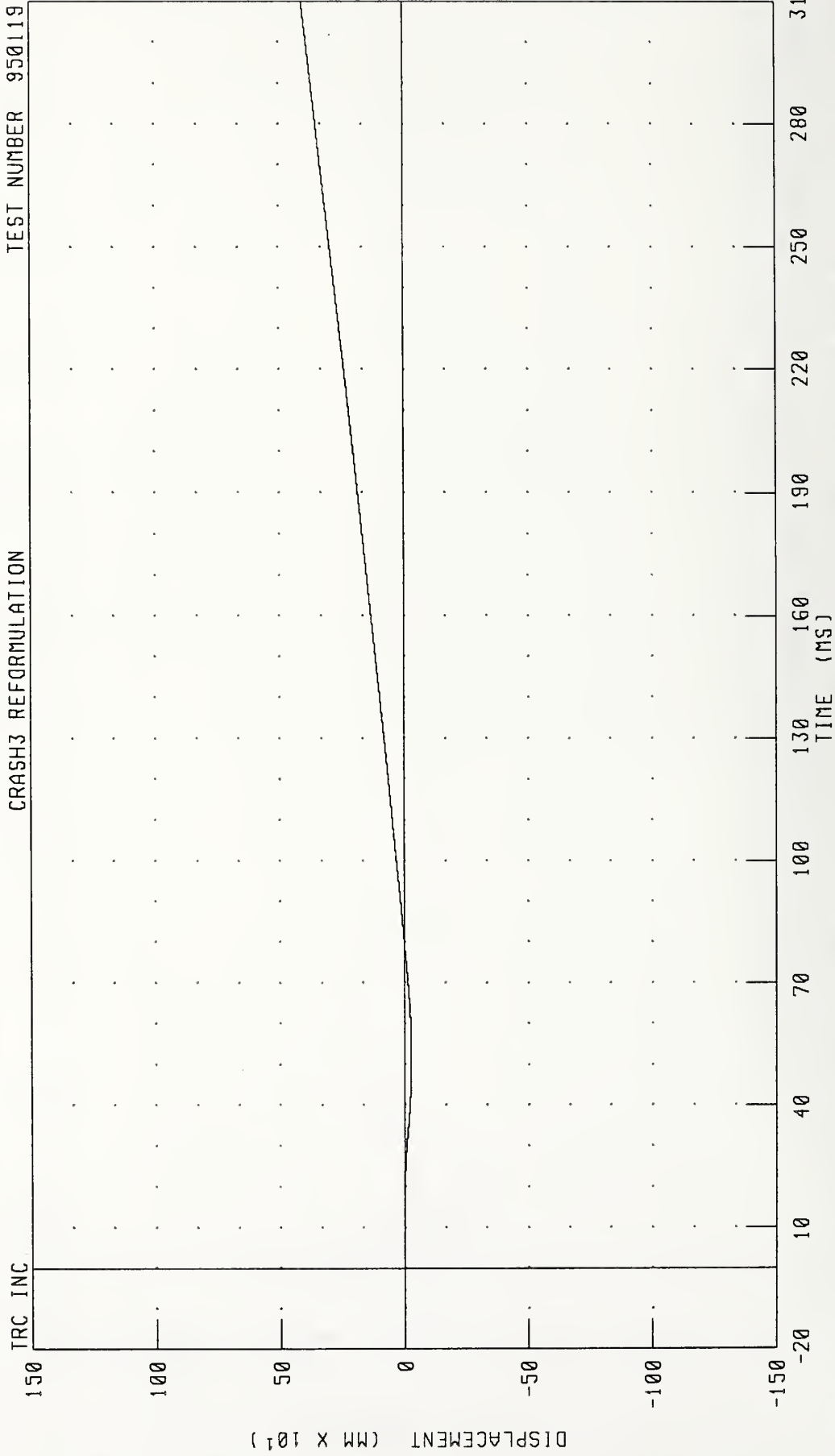
CRASH3 REFORMULATION

TRC INC



CHANNEL: LFSYV1 FILTER: CH CLASS 180 PEAK DATA: 6.94 KM/H @ 310.00 MS, -5.92 KM/H @ 33.20 MS

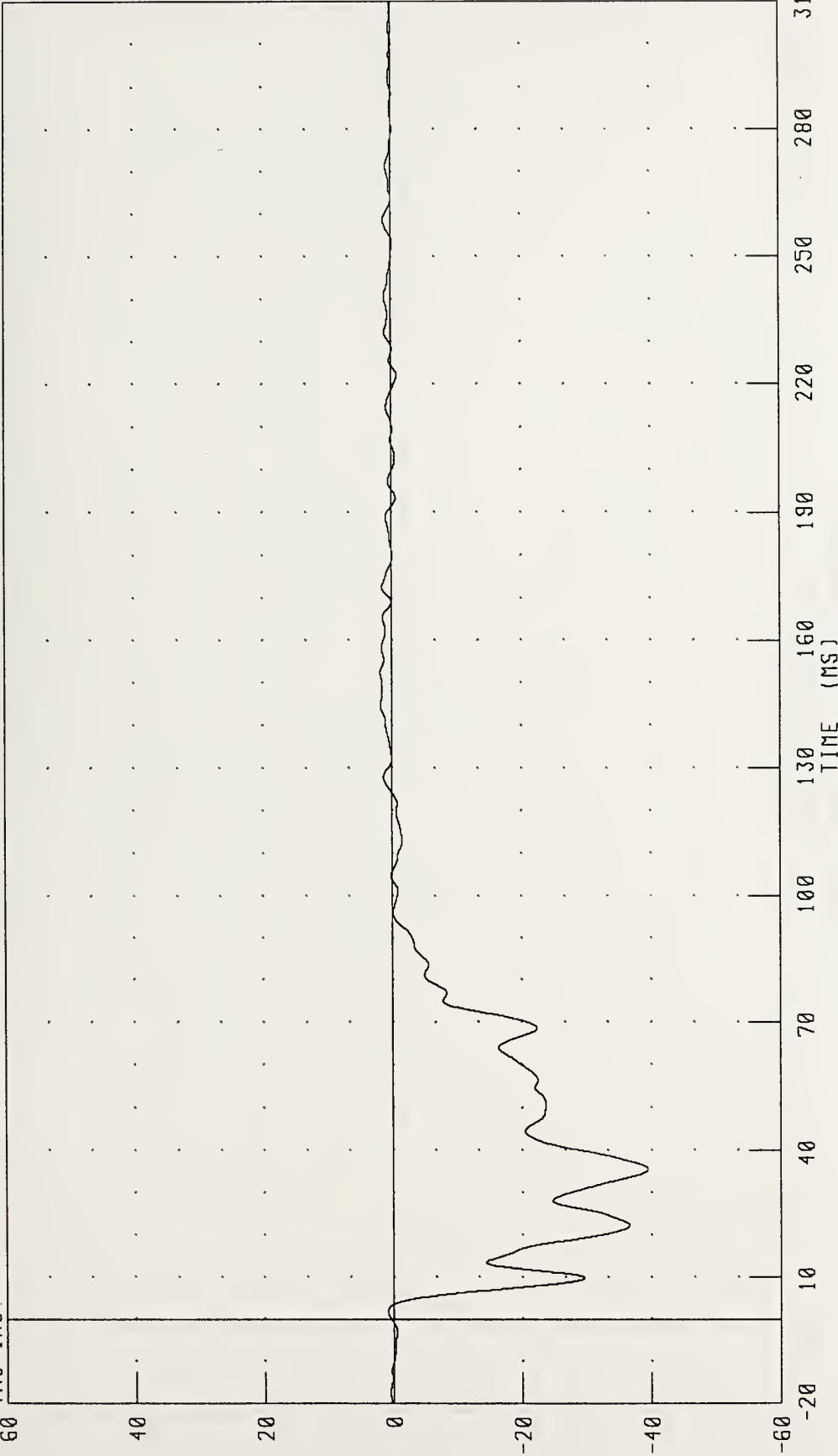
1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
LEFT FRONT SILL Y-AXIS DISPLACEMENT



1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
RIGHT FRONT SILL X-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119

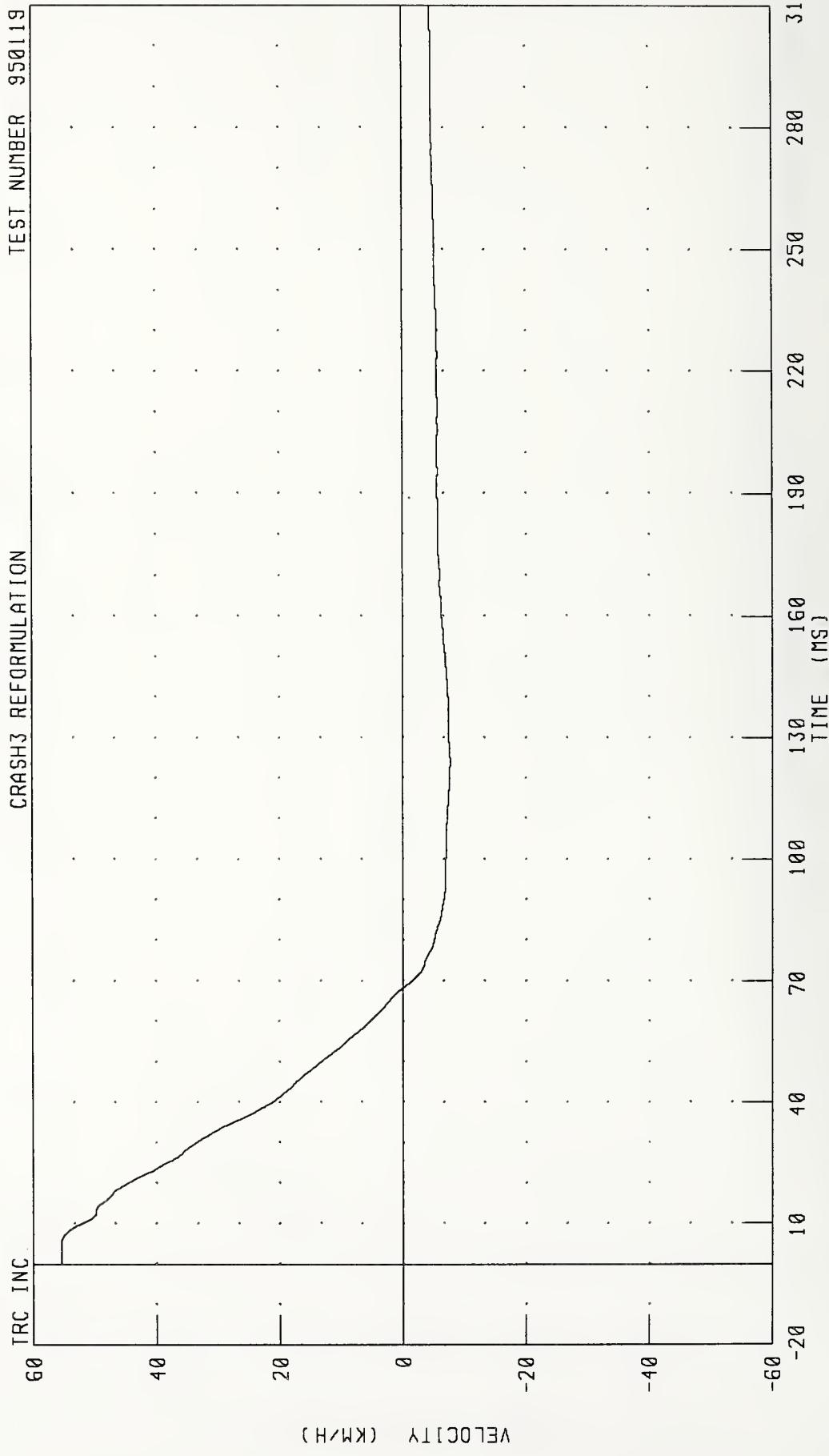
TRC INC



CHANNEL : RFSXG1 FILTER : CH CLASS 60 PEAK DATA 1 82 G @ 152.32 MS, -39 43 G @ 35 52 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
RIGHT FRONT SILL X-AXIS VELOCITY

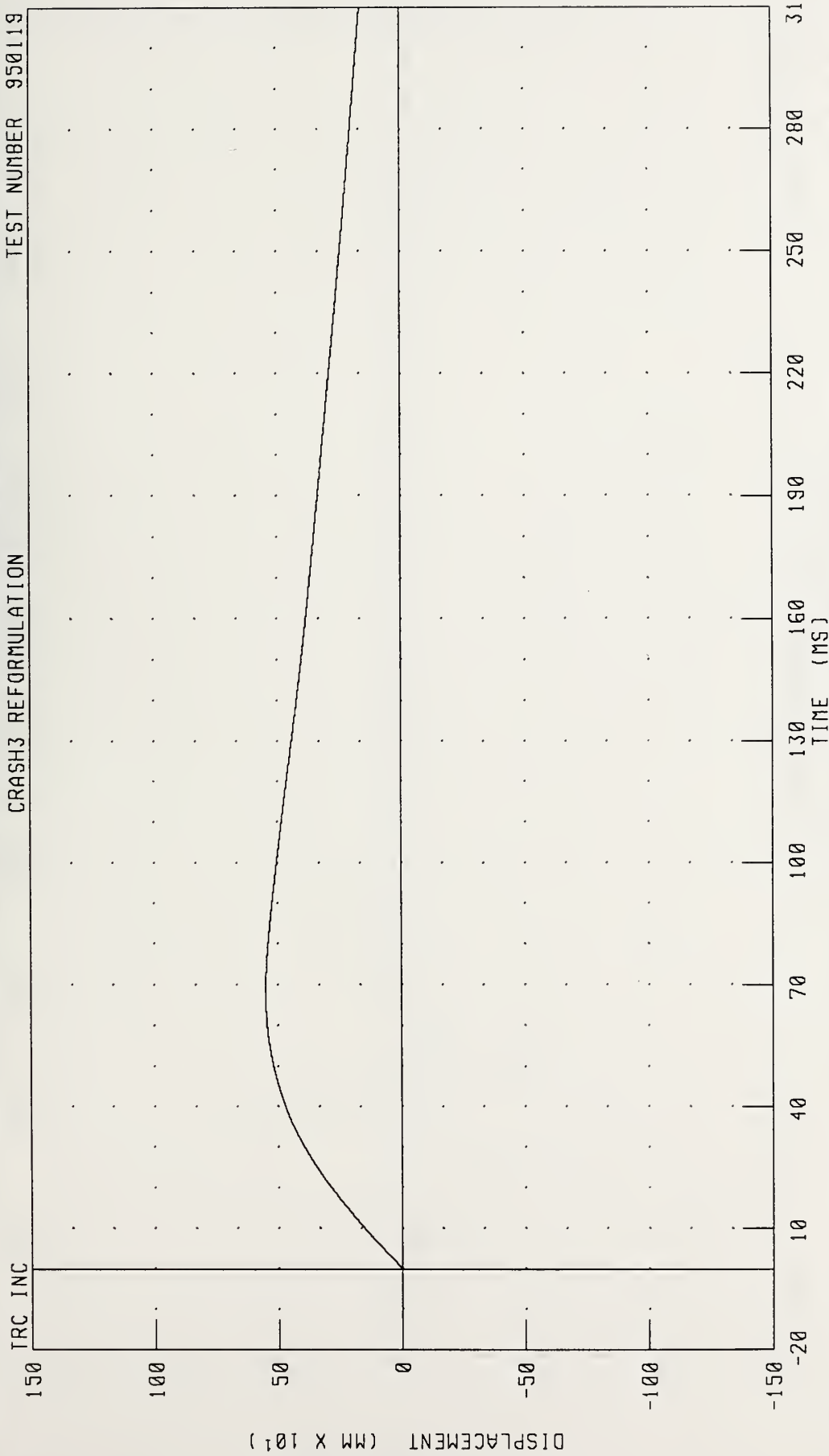
TRC INC
CRASH3 REFORMULATION
TEST NUMBER 950119



CHANNEL: RFSXV1 FILTER: CH CLASS 180 PEAK DATA: 55.44 KM/H @ 2.16 MS; -7.71 KM/H @ 123.76 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
RIGHT FRONT SILL X-AXIS DISPLACEMENT

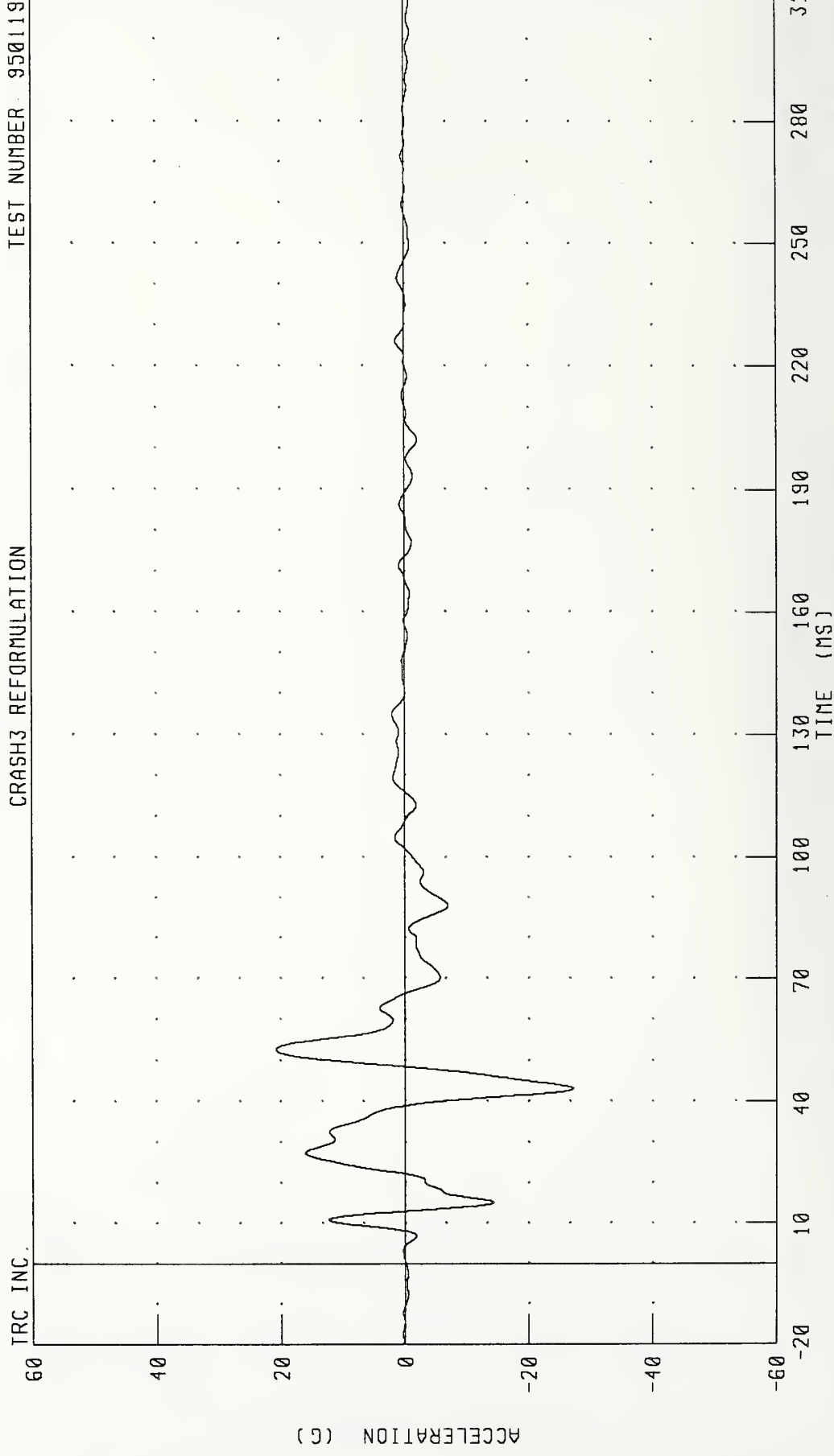
CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL: RFSXD1 FILTER: CH CLASS 180 PEAK DATA: 551.01 MM @ 68.24 MS, 0.00 MM @ 0.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
RIGHT FRONT SILL Y-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119

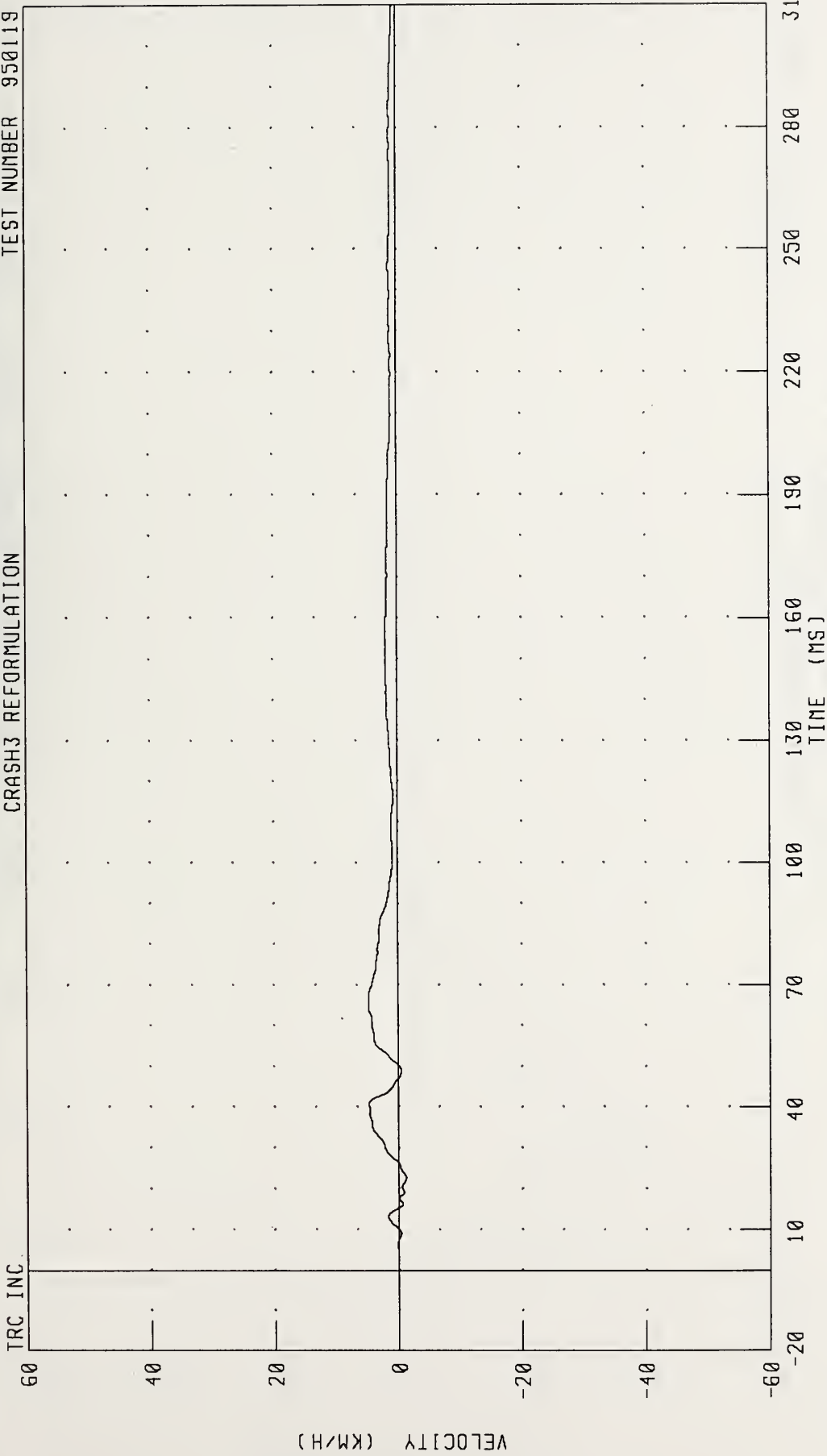


CHANNEL: RFSYG1 FILTER: CH CLASS 60

PEAK DATA: 20.77 G @ 52.72 MS; -27.25 G @ 43.04 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
RIGHT FRONT SILL Y-AXIS VELOCITY

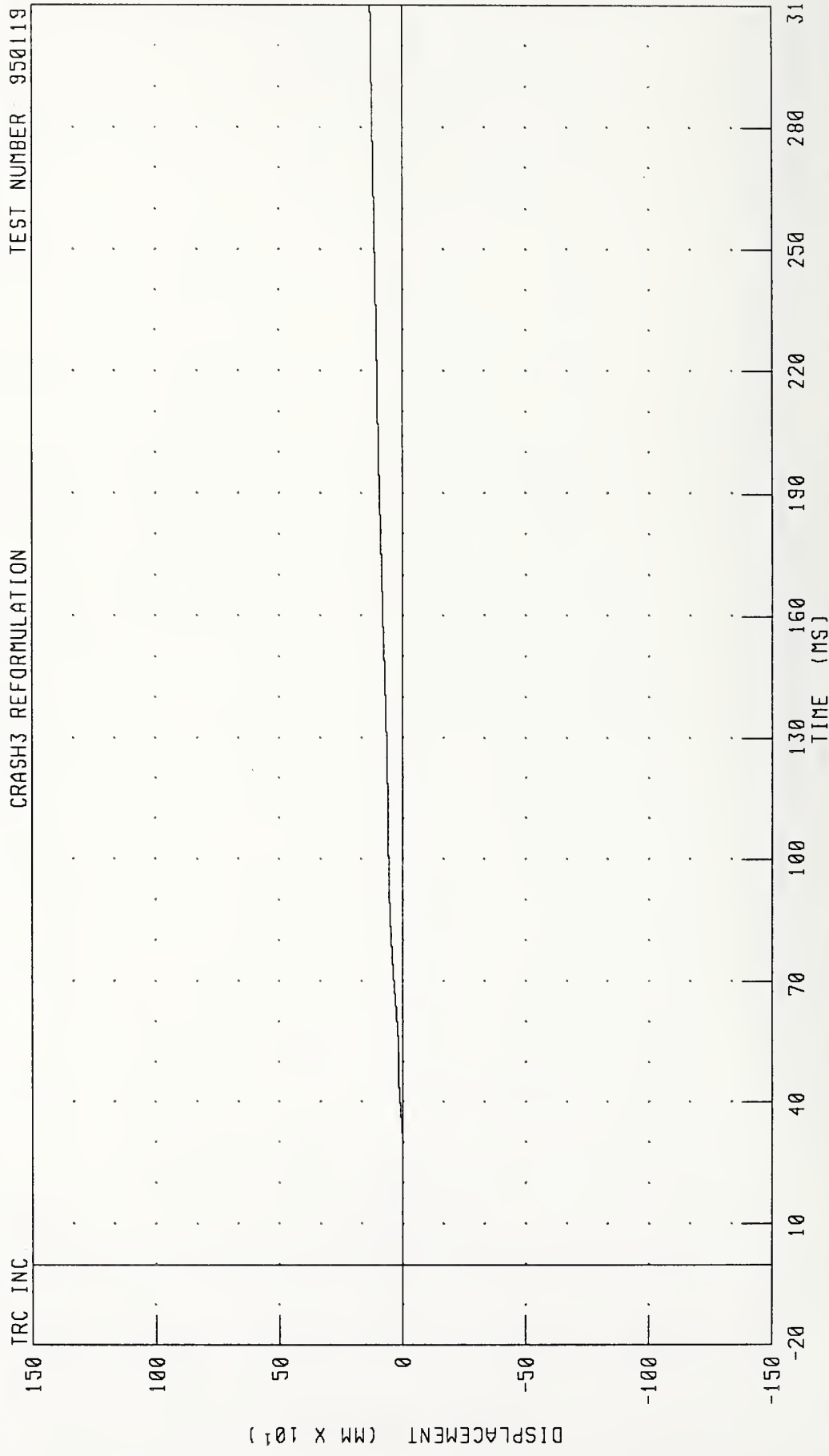
CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL: RFSYV1 FILTER: CH. CLASS 180 PEAK DATA: 4.82 KM/H @ 67.36 MS, -1.26 KM/H @ 22.64 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
 RIGHT FRONT SILL Y-AXIS DISPLACEMENT

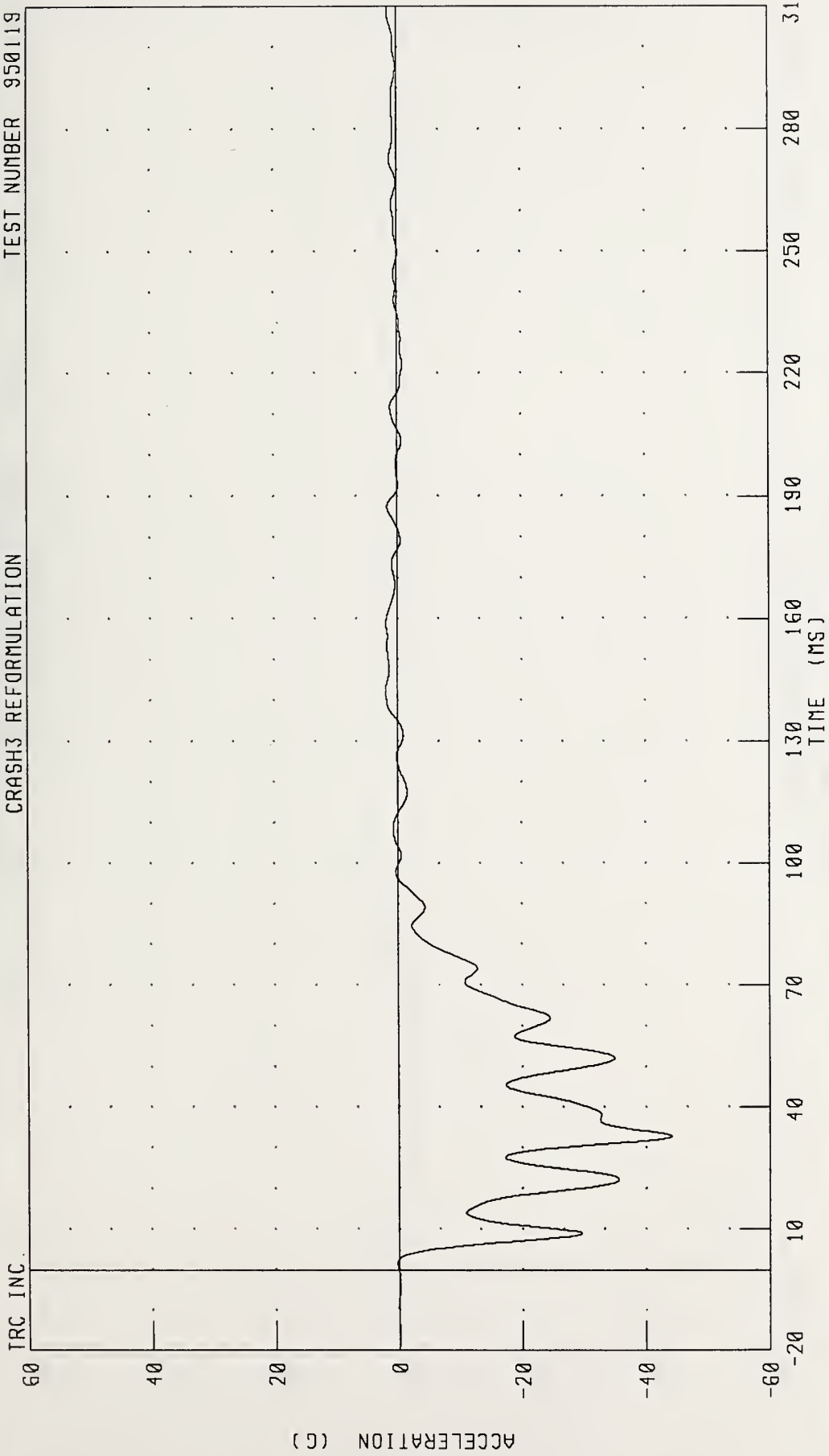
CRASH3 REFORMULATION TEST NUMBER 950119



CHANNEL: RFSYD1 FILTER: CH CLASS 180 PEAK DATA: 129.73 MM @ 310 00 MS; -0 50 MM @ 26.32 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
LEFT REAR SEAT X-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119



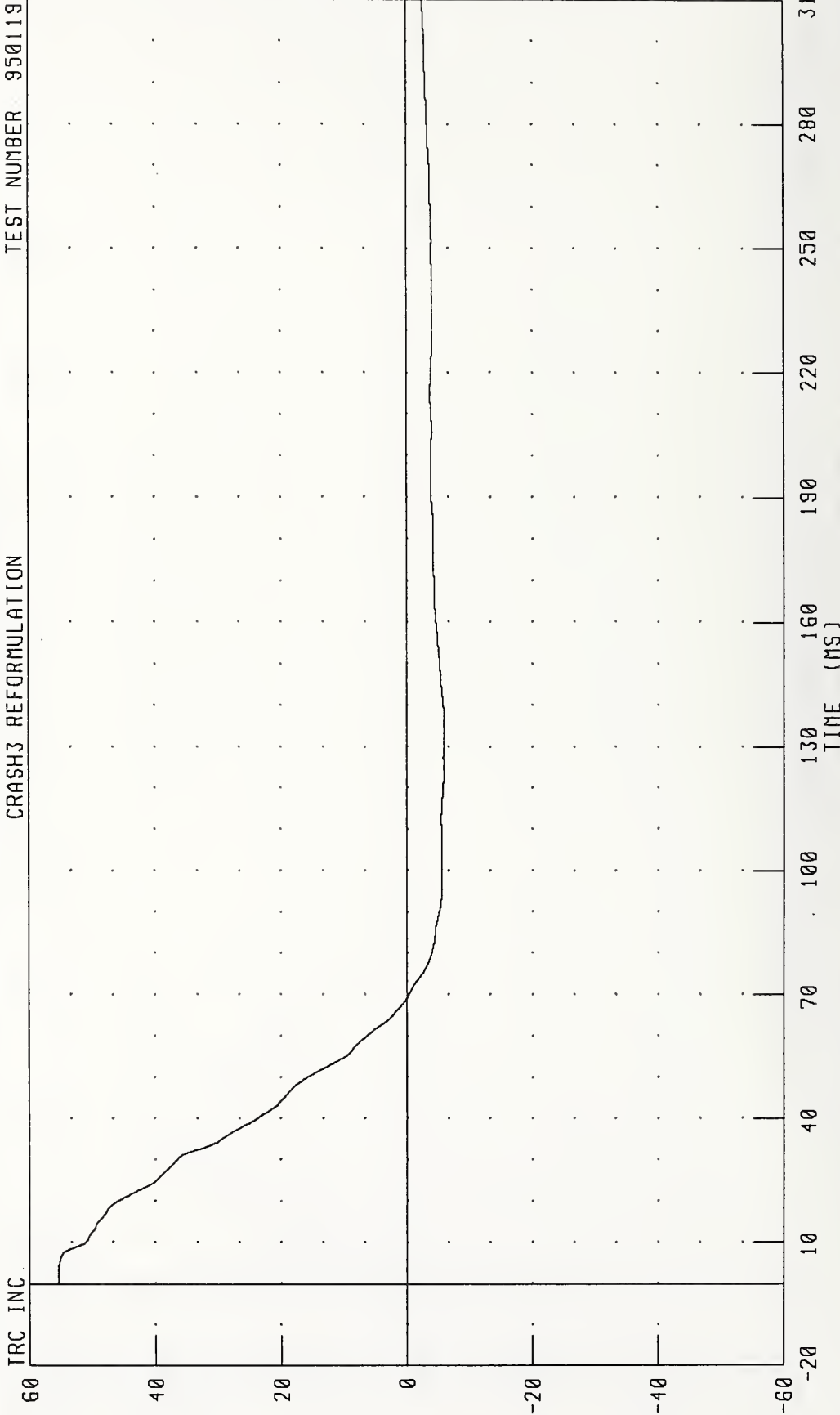
CHANNEL: TLRXG1 FILTER: CH CLASS 60 PEAK DATA: 1 85 G @ 142.56 MS, -44 13 G @ 32 80 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5

LEFT REAR SEAT X-AXIS VELOCITY

CRASH3 REFORMULATION

TEST NUMBER 950119

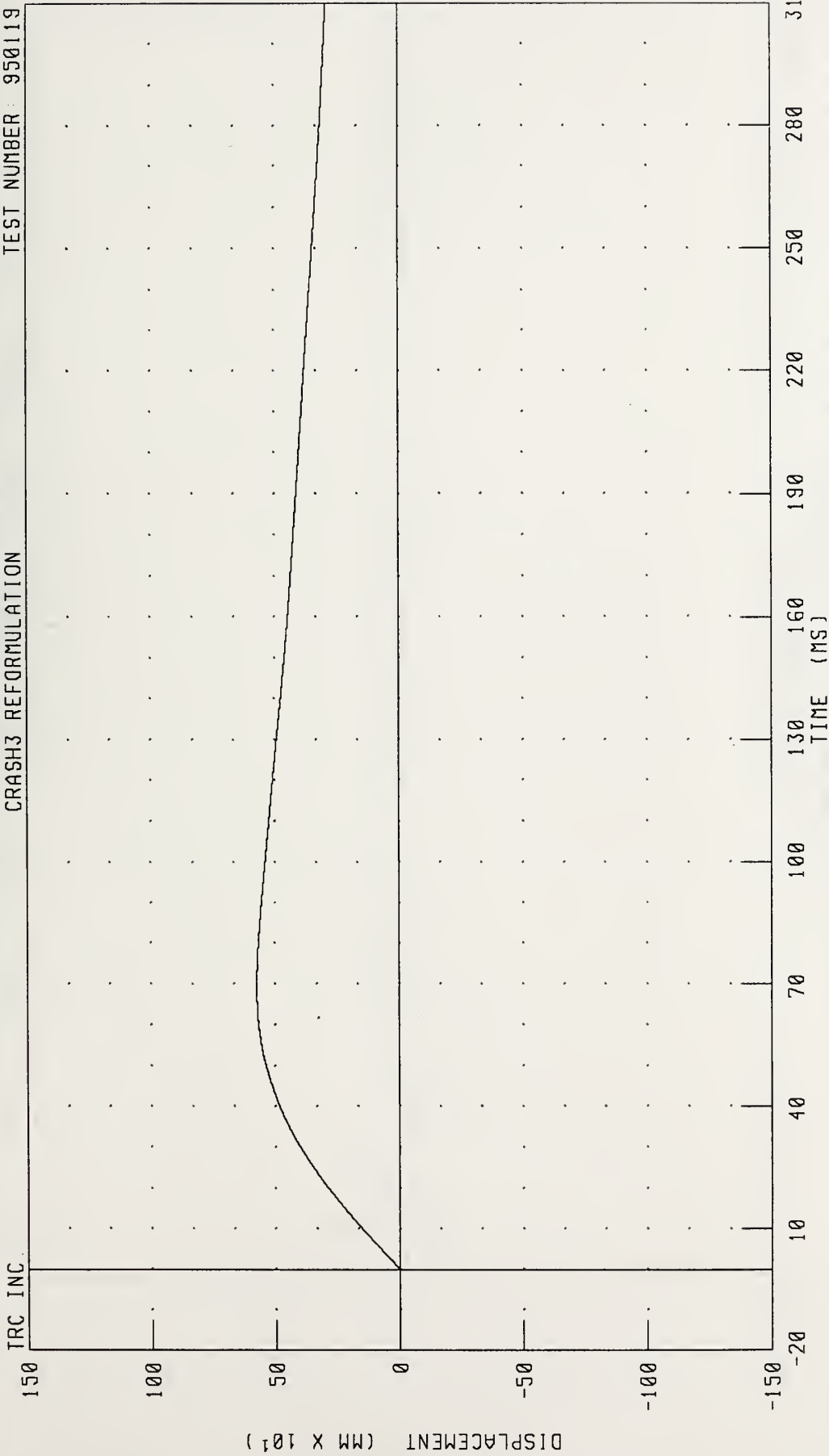


CHANNEL: TLRXV1 FILTER: CH CLASS 180

PEAK DATA: 55.40 K/M/H @ 0.00 MS; -6.00 K/M/H @ 135.60 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
LEFT REAR SEAT X-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER: 950119

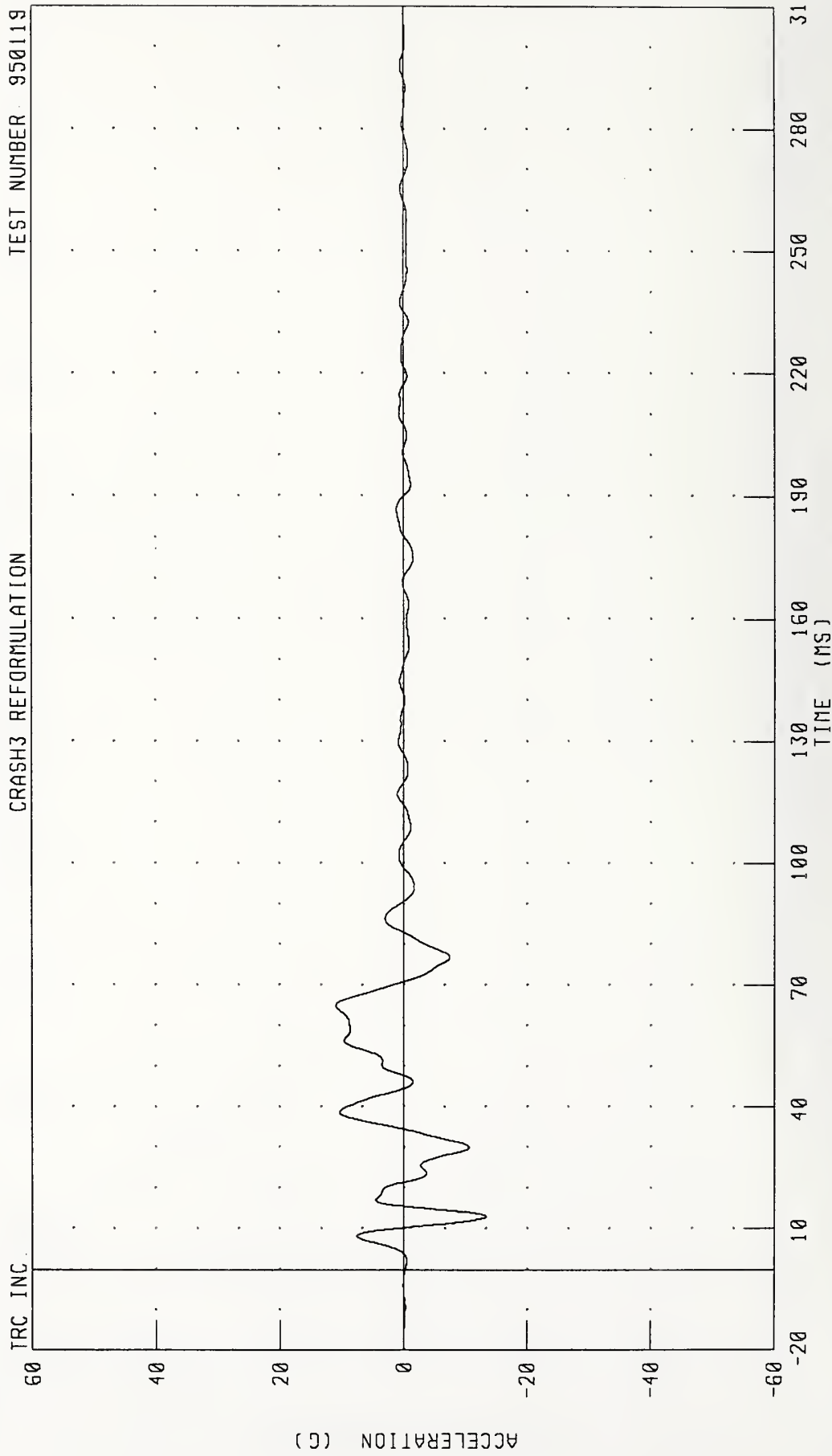


CHANNEL: TLRX01 FILTER: CH CLASS 180

PEAK DATA: 574 80 MM @ 69 04 MS, 0 00 MM @ 0 00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
LEFT REAR SEAT Y-AXIS ACCELERATION

TRC INC. CRASH3 REFORMULATION TEST NUMBER 950119

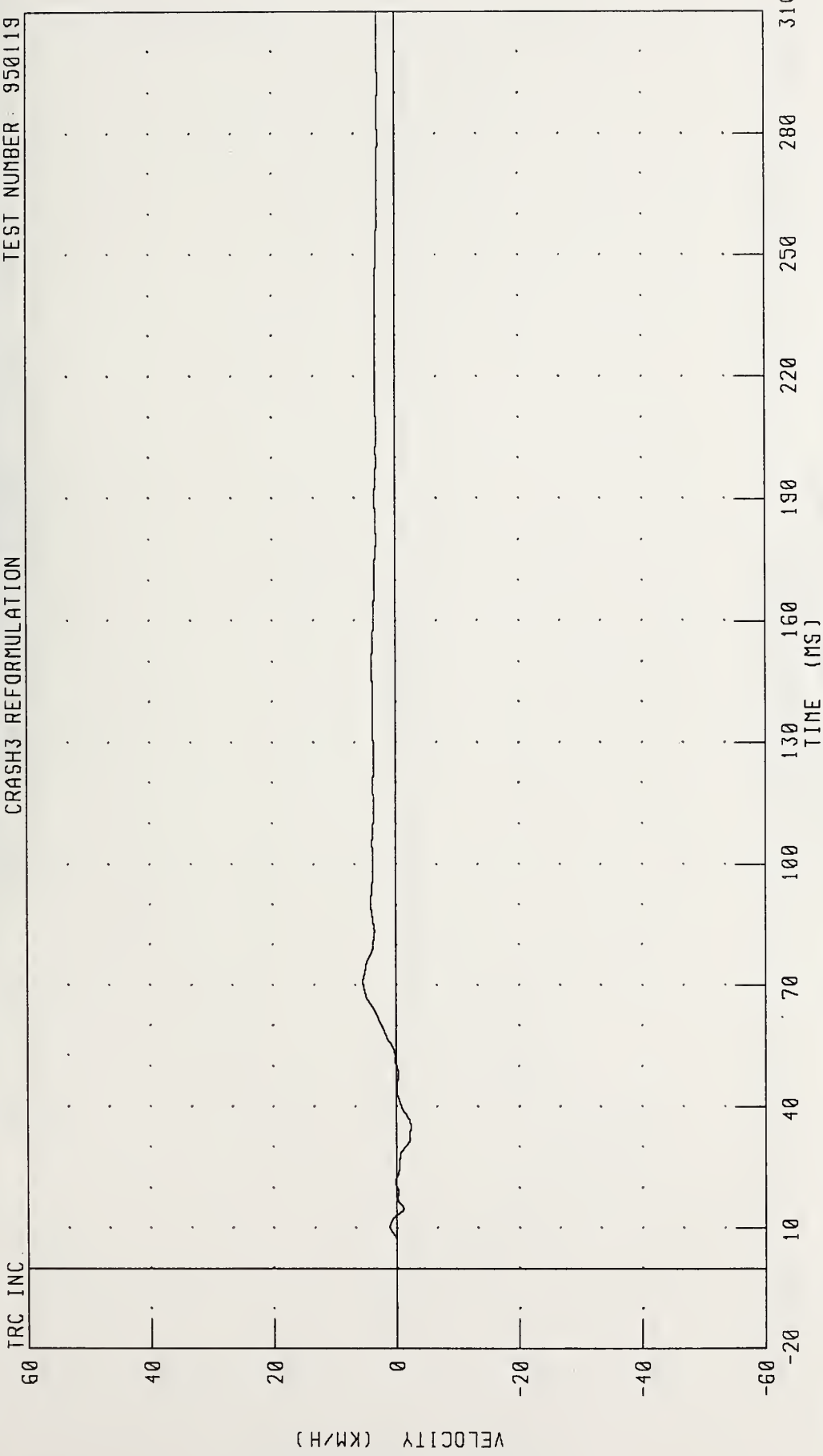


CHANNEL: TLRYG1 FILTER: CH CLASS 60

PEAK DATA: 11.00 G @ 64.96 MS, -13.29 G @ 12.96 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
LEFT REAR SEAT Y-AXIS VELOCITY

CRASH3 REFORMULATION TEST NUMBER 950119

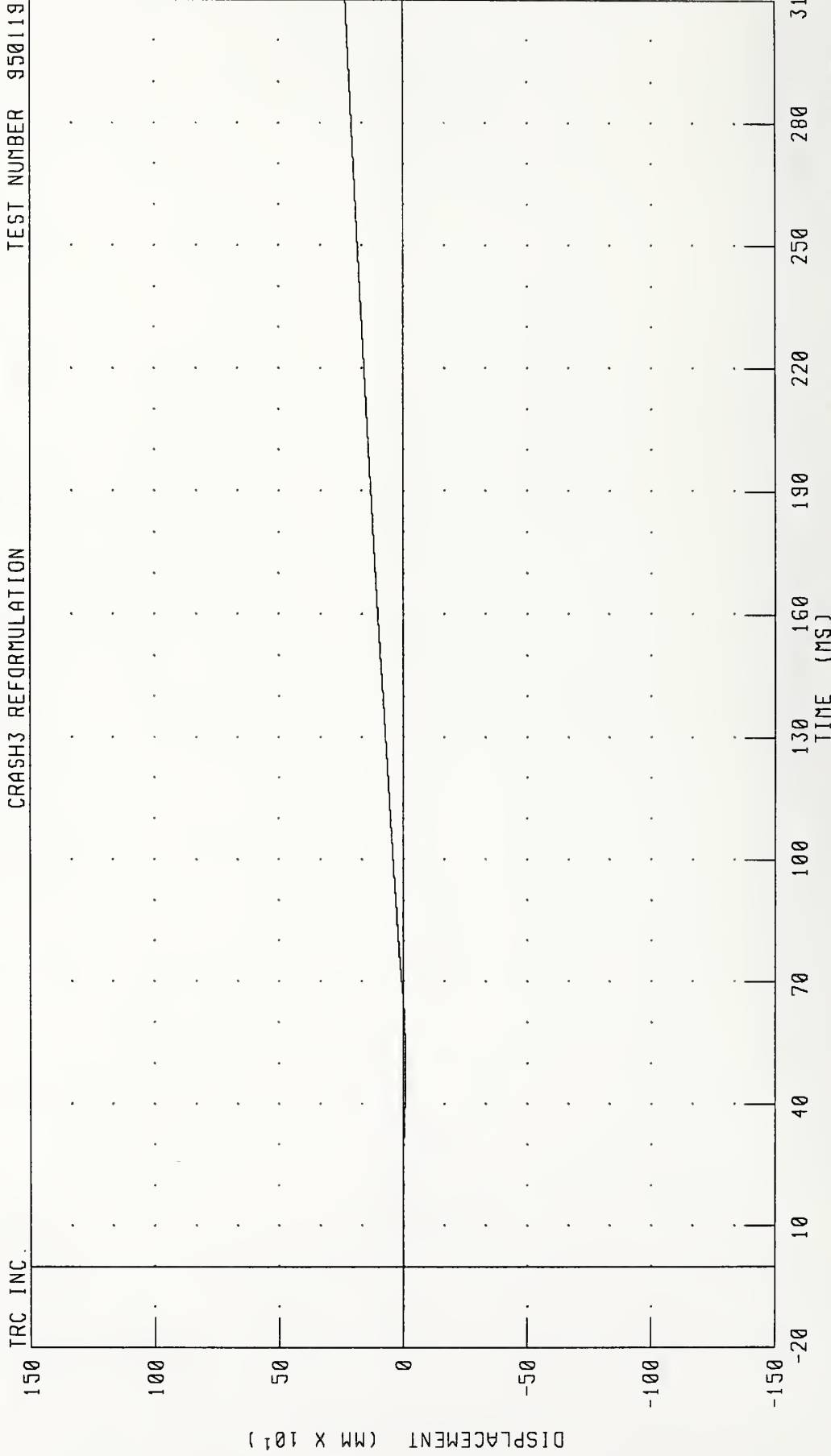


CHANNEL: TLRYV1 FILTER: CH. CLASS 180

PEAK DATA: 5.38 KM/H @ 70.80 MS; -2 40 KM/H @ 34 80 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
 LEFT REAR SEAT Y-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER 950119

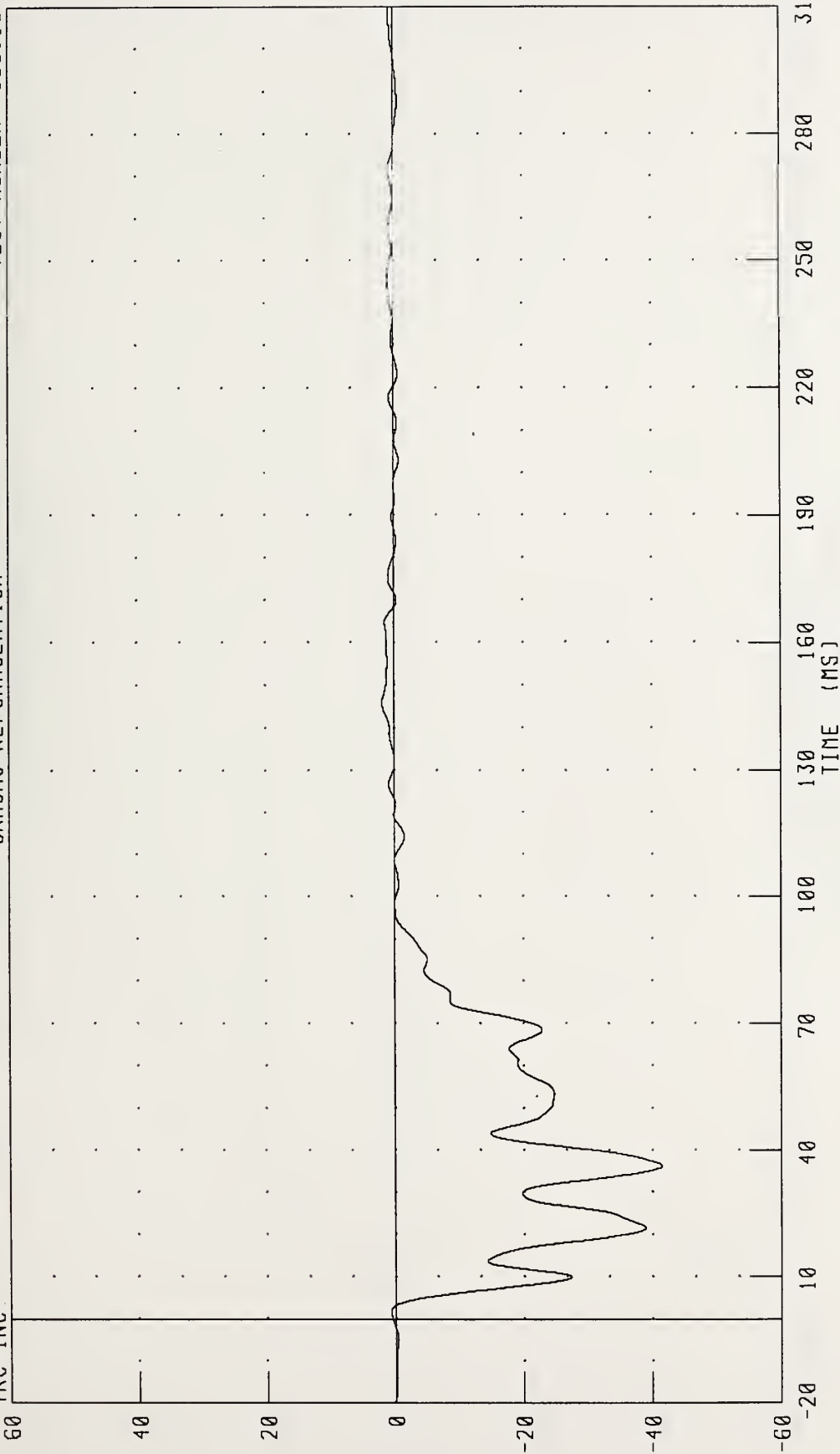


CHANNEL: TLRY01 FILTER: CH. CLASS 180 PEAK DATA: 231.53 MM @ 310.00 MS, -7.12 MM @ 50.08 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
RIGHT REAR SEAT X-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER 950119

TRC INC

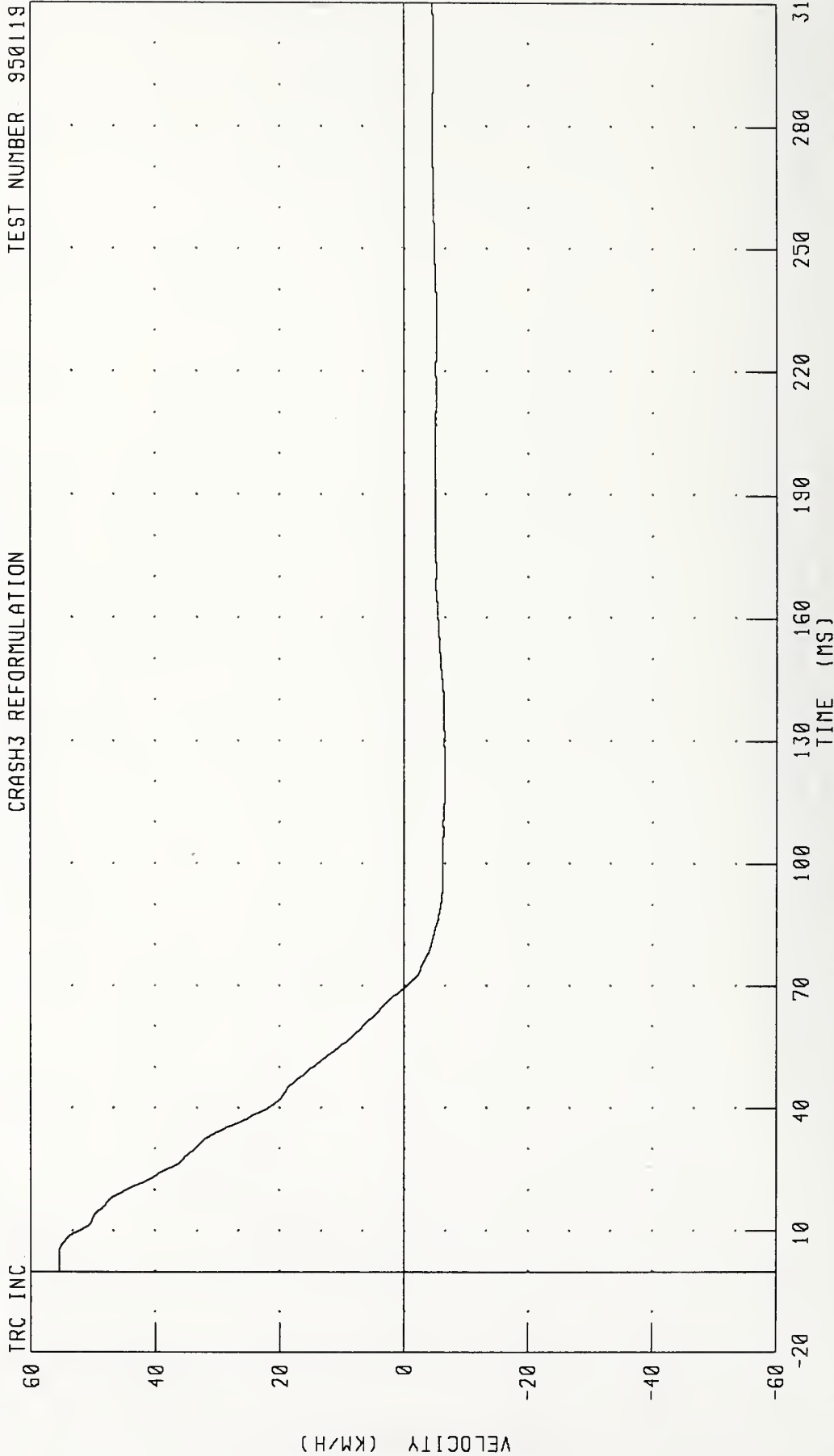


CHANNEL: TRRXG1 FILTER: CH CLASS 60

PEAK DATA: 1 86 G @ 145.76 MS, -41 48 G @ 36 24 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
RIGHT REAR SEAT X-AXIS VELOCITY

CRASH3 REFORMULATION TEST NUMBER 950119



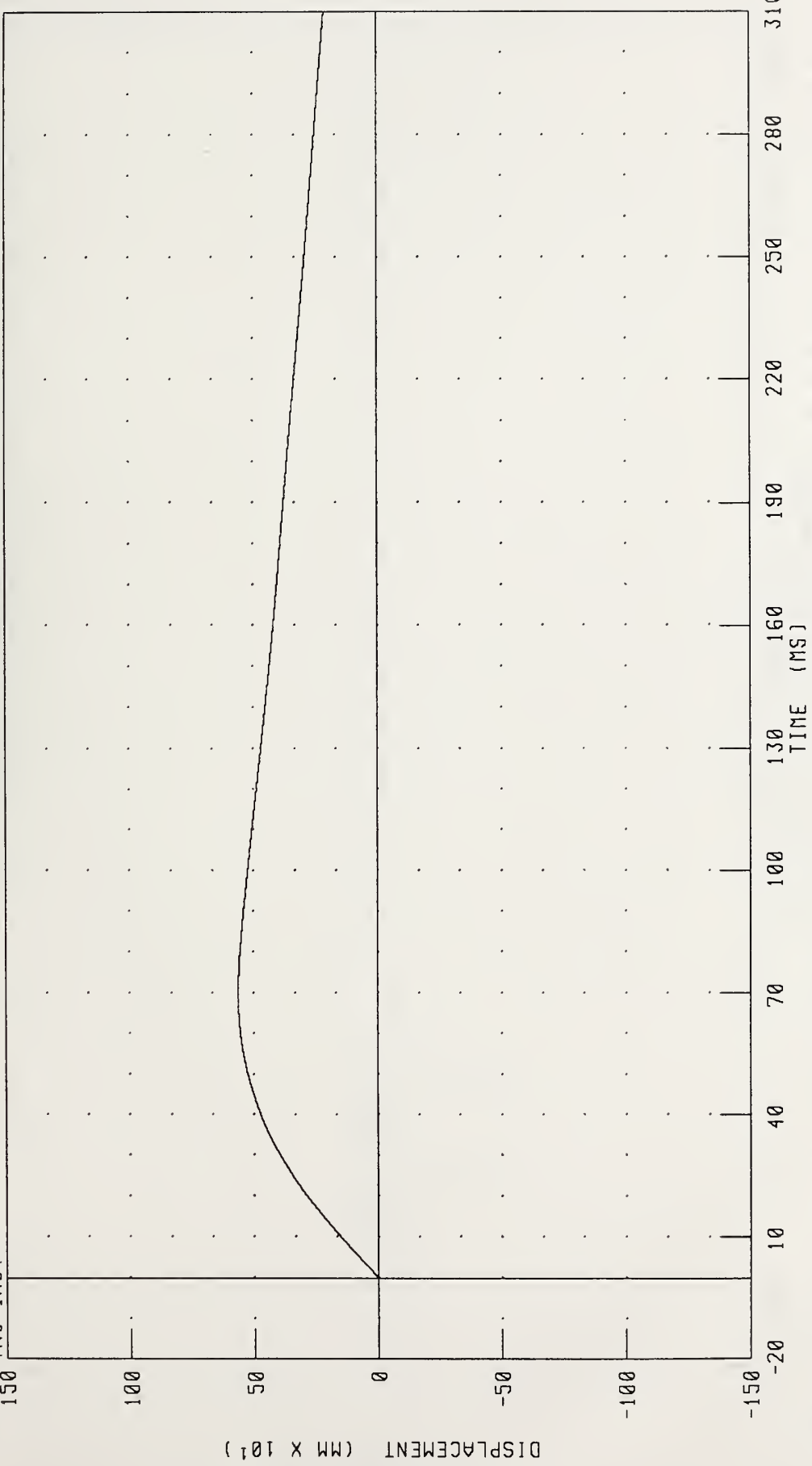
CHANNEL: TRRXV1 FILTER: CH CLASS 180

PEAK DATA: 55.42 KM/H @ 3.76 MS; -6.66 KM/H @ 117.84 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
RIGHT REAR SEAT X-AXIS DISPLACEMENT

CRASH3 REFORMULATION TEST NUMBER 950119

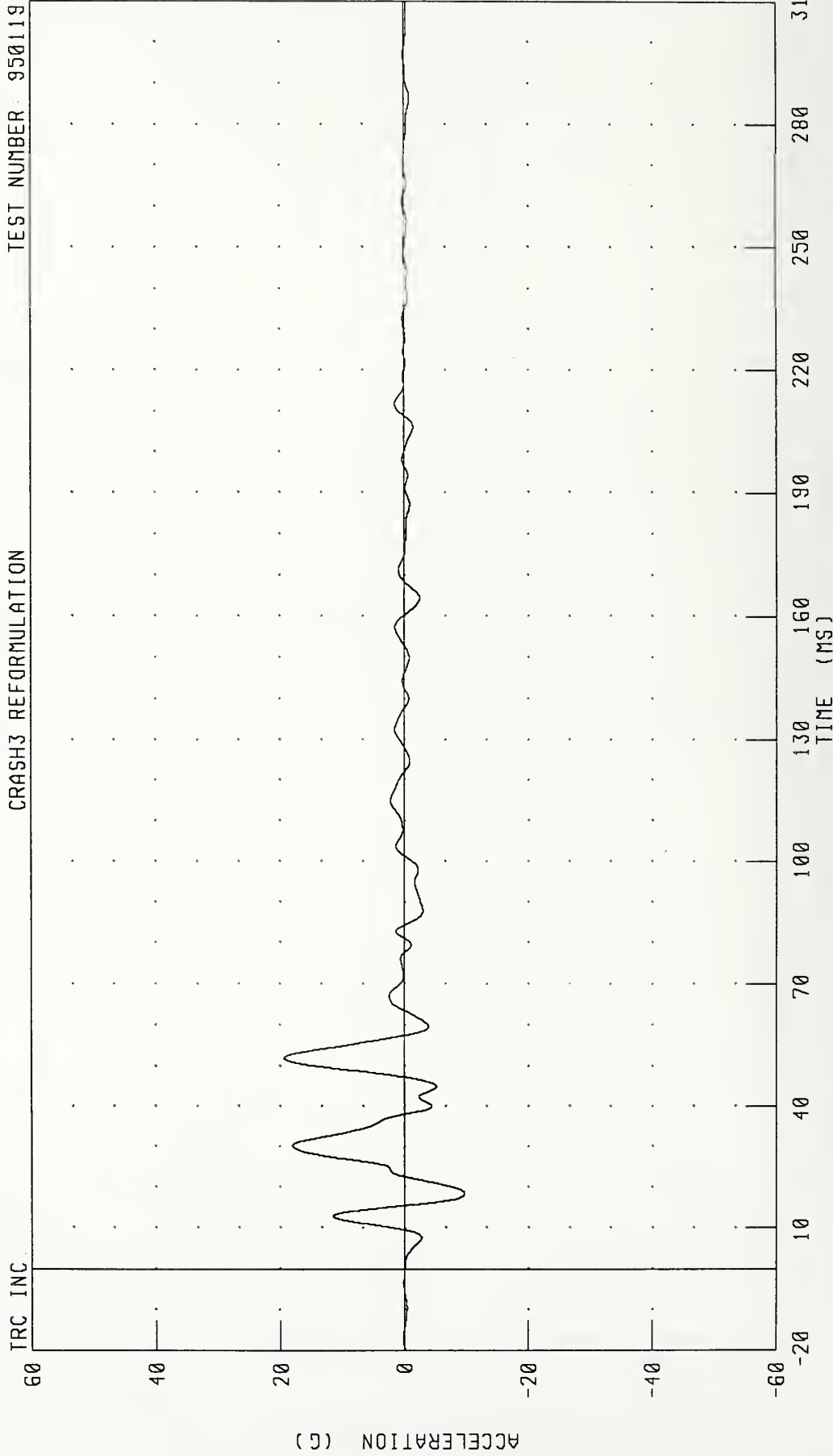
TRC INC.



CHANNEL: TRRXD1 FILTER: CH. CLASS 180 PEAK DATA: 563.47 MM @ 69.44 MS, 0.00 MM @ 0.00 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
RIGHT REAR SEAT Y-AXIS ACCELERATION

CRASH3 REFORMULATION TEST NUMBER: 950119



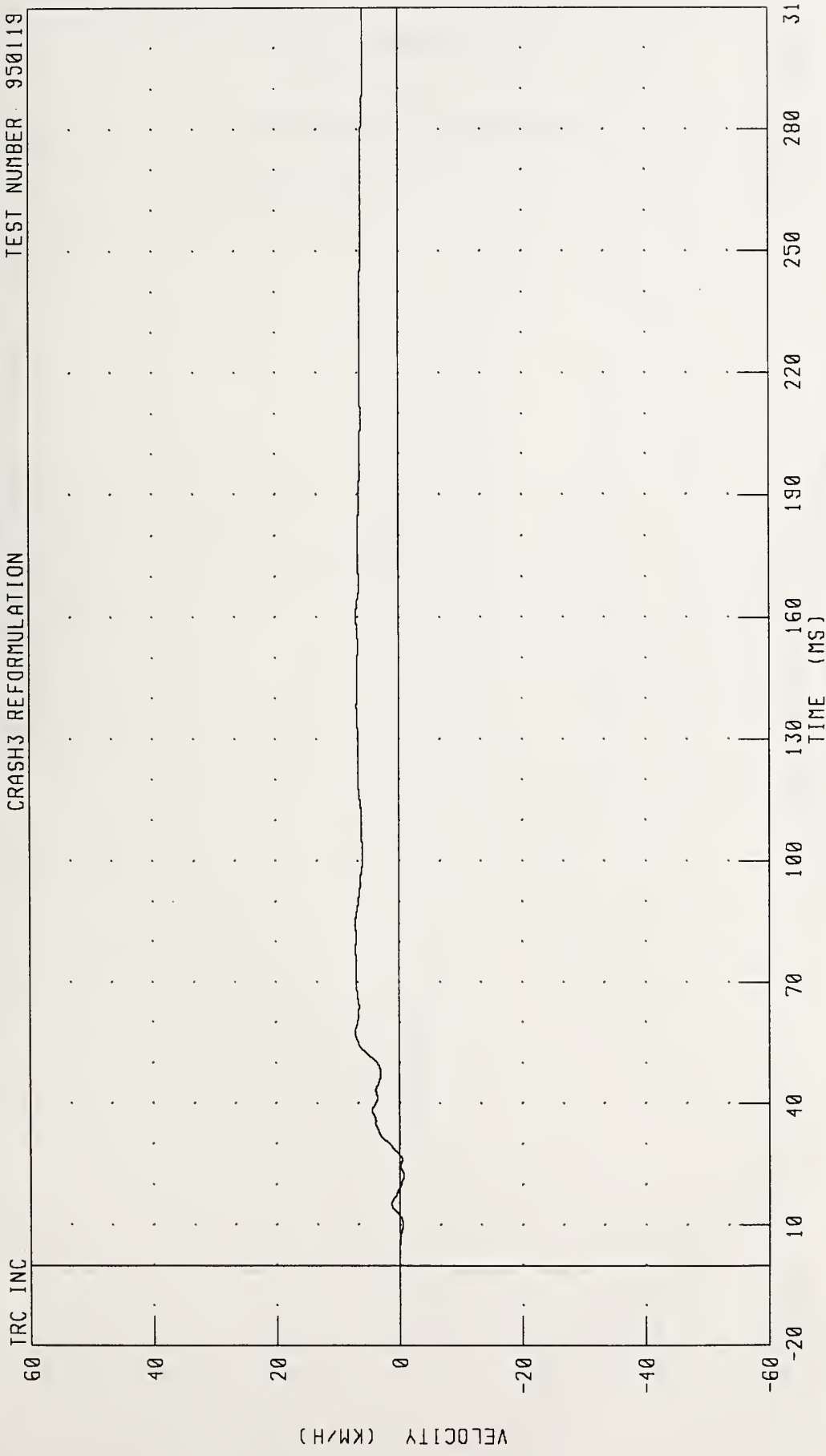
CHANNEL: TRRYG1 FILTER: CH. CLASS 60

PEAK DATA: 19.41 G @ 51.92 MS, -9.70 G @ 18.40 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
RIGHT REAR SEAT Y-AXIS VELOCITY

TEST NUMBER 950119

CRASH3 REFORMULATION



CHANNEL: TRRYV1 FILTER: CH CLASS 180

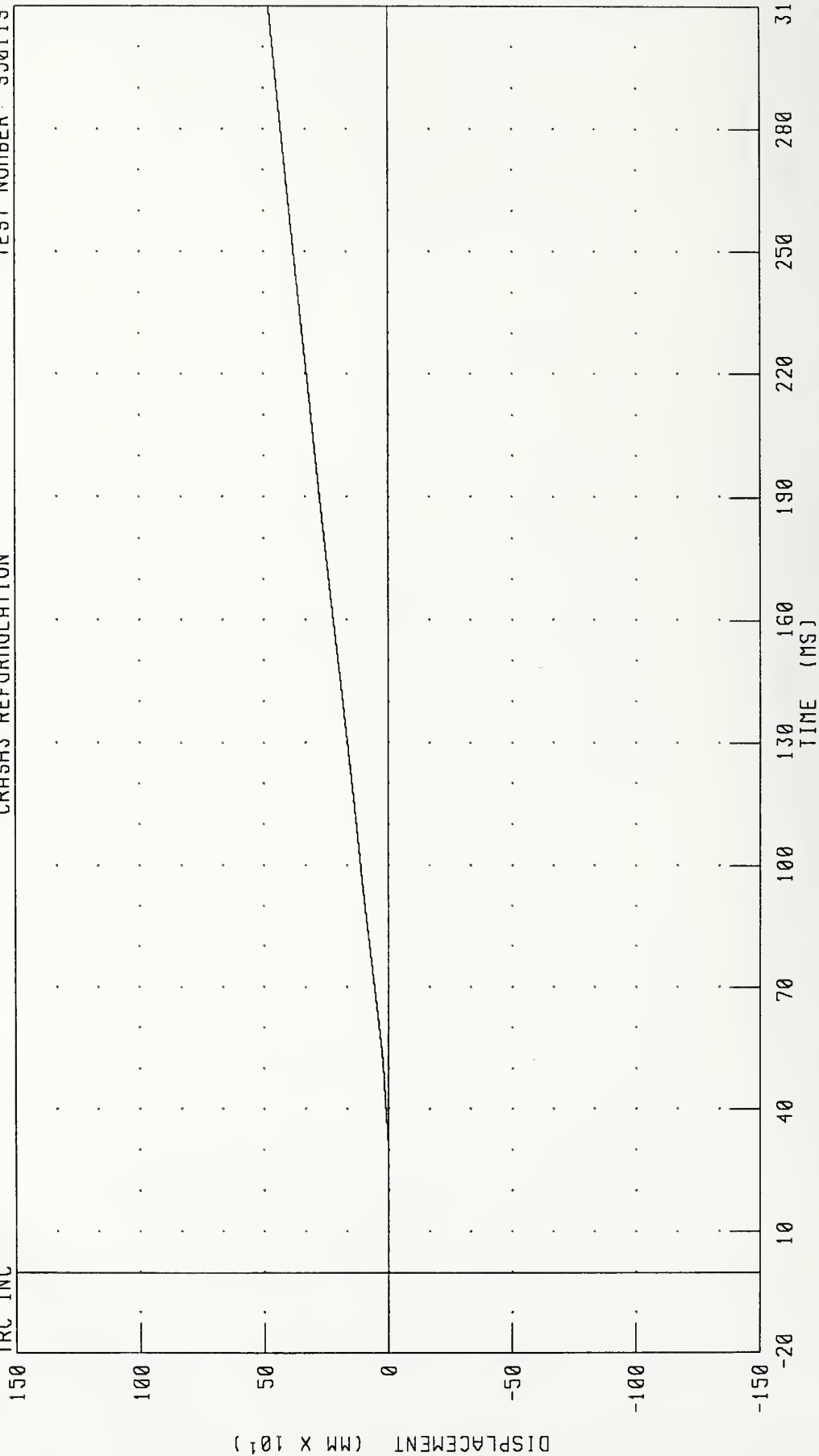
PEAK DATA: 7.19 KM/H @ 57.44 MS; -0.69 KM/H @ 22.24 MS

1992 CHEVROLET CAPRICE INTO FLAT FRONTAL BARRIER IMPACT 5 OF 5
RIGHT REAR SEAT Y-AXIS DISPLACEMENT

TEST NUMBER: 950119

CRASH3 REFORMULATION

TRC INC



CHANNEL: TRRYD1 FILTER: CH CLASS 180

PEAK DATA: 479.82 MM @ 310.00 MS, -0.58 MM @ 12.32 MS

Appendix C

Miscellaneous Test Information



Vehicle Accelerometer Information

No.	Location	Axis	Manufacturer	Model	Serial Number	Orientation (+ Sensing)
1	Vehicle center of gravity	X	Endevco	7264	BB68	Front
		Y	Endevco	7264	BD41J	Left
		Z	Endevco	7264	BH14J	Up
2	Left rear seat	X	Endevco	7264	BG38J	Front
		Y	Endevco	7264	AJ49	Right
3	Right rear seat	X	Endevco	7264	BG20J	Front
		Y	Endevco	7264	BN09J	Right
4	Left front sill	X	Endevco	7264	EJ60J	Front
		Y	Endevco	7264	BF05	Right
5	Right front sill	X	Endevco	7264	BC41J	Front
		Y	Endevco	7264	BD75J	Left

Sign Convention

All Dummy, Barrier And Vehicle Channels:

+X: Forward

+Y: Leftward

+Z: Upward

+Force: Tension

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