

**VEHICLE RESEARCH AND TEST CENTER
2010 TOYOTA VENZA INTO A
HIGH RESOLUTION LOAD CELL BARRIER
TRC INC. TEST NUMBER: 131114**



**PREPARED BY:
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**TEST DATE: NOVEMBER 14, 2013
FINAL REPORT
NOVEMBER – DECEMBER 2013**

**PREPARED FOR:
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TRC TEST NUMBER: 131114

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SECTION 1

PURPOSE AND SUMMARY OF TEST

PURPOSE

This flat frontal load cell barrier impact test was conducted for the National Highway Traffic Safety Administration (NHTSA) and Vehicle Research and Test Center (VRTC) by Transportation Research Center Inc. (TRC Inc.).

The test mode was defined as the vehicle moving at 25.0 mph (40.2 km/h) striking the flat frontal load cell barrier with 125 mm x 125 mm load cells at an impact angle of 0 degrees.

SUMMARY

This test was conducted in accordance with VRTC instructions for a flat frontal load cell barrier impact test. A load cell barrier consisting of 64 3-axis load cells and 96 single axis load cells was impacted by a 2010 Toyota Venza at a velocity of 40.37 kph. The test was performed at Transportation Research Center, Inc. on November 14, 2013. Pre- and post-test photographs of the vehicle and dummy can be found in Appendix A.

Fifteen (15) high-speed digital cameras and one (1) real time panning camera were used to document the frontal barrier impact event. Camera locations and other pertinent camera information can be found in this report.

The subject vehicle, a 2010 Toyota Venza, was instrumented with seven (7) accelerometers to measure longitudinal axis accelerations, and one (1) accelerometer to measure vertical axis acceleration.

One (1) 5th percentile adult female Hybrid III Anthropomorphic Test Device (ATD) was placed in the vehicle's left front designated seating position. The dummy was positioned according to instructions specified in the laboratory test procedure for FMVSS No. 208, "Occupant Crash Protection", TP208-14, April 16, 2008. The dummy was instrumented with primary and redundant head and chest accelerometers measuring in lateral, longitudinal and vertical directions; primary pelvis accelerometers measuring in lateral, longitudinal and vertical directions; neck load cells measuring in lateral, longitudinal and vertical directions; left and right femur load cells measuring in the vertical direction; chest displacement measuring in the longitudinal direction; and head rate gyros measuring in the lateral, longitudinal and vertical directions. The dummy was restrained by a 3-point seat belt and airbags. Seat, steering column and upper anchorage positions were recorded.

The 329 channels of data were digitally sampled and recorded at 12,500 samples per second and processed per SAE J211 March 1995. Appendix B contains the vehicle and load cell barrier data plots.

TEST NOTES:

The driver shoulder belt force data channel recorded questionable data.

The load cell located in Row 09, Column 16 moment about Y axis data channel did not return to zero.

The load cell located in Row 08, Column 3 moment about Y axis data channel recorded questionable data throughout the event.

The load cell located in Row 07, Column 08 moment about Y axis data channel recorded questionable data throughout the event.

The load cell located in Row 03, Column 1 X-axis force data channel did not return to zero.

SECTION 2
OCCUPANT AND VEHICLE INFORMATION/DATA SHEETS

DATA SHEET NO. 1

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2010 Toyota Venza

Test Program: Frontal Impact

Test Date: 11/14/13

TEST VEHICLE INFORMATION AND OPTIONS

Make	Toyota	Driver Front Airbag	Yes
Model Year	2010	Driver Side Airbag	Yes
Model	Venza	Driver Head Airbag	No
Body Style	4-door MPV	Driver Curtain Airbag	Yes
		Driver Knee Airbag	Yes
VIN	4T3ZA3BB2AU025743	Pass. Front Airbag	Yes
Color	Red	Pass. Side Airbag	Yes
Delivery Date	11/8/13	Pass. Head Airbag	No
Odometer Reading	35,177	Pass. Curtain Airbag	Yes
		Pass. Knee Airbag	Yes
Transmission	Automatic	Load Limiters	Yes
Final Drive	Front Wheel	Anti-lock Brakes	Yes
Type /No. of Cylinders	4	4-Wheel Drive	No
Engine Displacement	2.7 Liter	Pretensioners	Yes
Engine Placement	Transverse	Air Conditioning	Yes
Roof Rack	No	Tilt Wheel	Yes
Sunroof / T-Top	No	Power Seats	Yes
Tinted Glass	Yes	Power Windows	Yes
Traction Control	Yes	Power Steering	Yes
Power Brakes	Yes	AM/FM/CD	Yes
Front Disc	Yes	Automatic Door Locks	Yes
Rear Disc	Yes	Other	No
Does owner's manual provide instructions to turn off automatic door locks?			Unknown

DATA FROM CERTIFICATION LABEL

Manufactured By	Toyota Motor Manufacturing.
Date of Manufacture	02/10

GVWR (kg)	2245
GAWR Front (kg)	1400
GAWR Rear (kg)	1230

TEST VEHICLE SEAT TYPE AND CAPACITY

Measured Parameter	Front	Rear	Total
Type of Seats	Bucket	Split Bench	
Designated Seating Capacity (DSC)	2	3	5
Type of Seat Back	Power	Manual	

DATA SHEET NO. 1 (CONTINUED)**GENERAL TEST AND VEHICLE PARAMETER DATA**Test Vehicle: 2010 Toyota VenzaTest Program: Frontal ImpactTest Date: 11/14/13**TEST VEHICLE AXLE WEIGHTS**

	Units	As Delivered (UVW) ¹			As Tested (ATW)		
		Front	Rear	Total	Front	Rear	Total
Left	kg	493.8	376.2		517.4	404.4	
Right	kg	482.4	360.2		477.8	386.2	
Ratio	%	57.0	43.0		55.7	44.3	
Totals	kg	976.2	736.4	1712.6	995.2	790.6	1785.8

TEST VEHICLE ATTITUDES AND CG

	Units	LF	RF	LR	RR	CG (aft of front axle)
As Delivered	mm	815	818	824	833	
As Tested	mm	809	813	813	818	1226
Post-Test	mm	822	836	811	811	

GENERAL TEST VEHICLE DATA

Measurement Description	Units	Value
Test Vehicle Wheelbase	mm	2768
Weight of Ballast in Cargo Area	kg	0.0
Weight of Ballast in Second Row	kg	0.0
Weight of Vehicle Components Removed	kg	Unknown
Amount of Stoddard Solvent in Fuel Tank	liters	62.5

Vehicle parts removed to make Target Vehicle Test Weight: Rear fascia, rear bumper beam, muffler, tail lights, rear hatch trim panel and glove box.

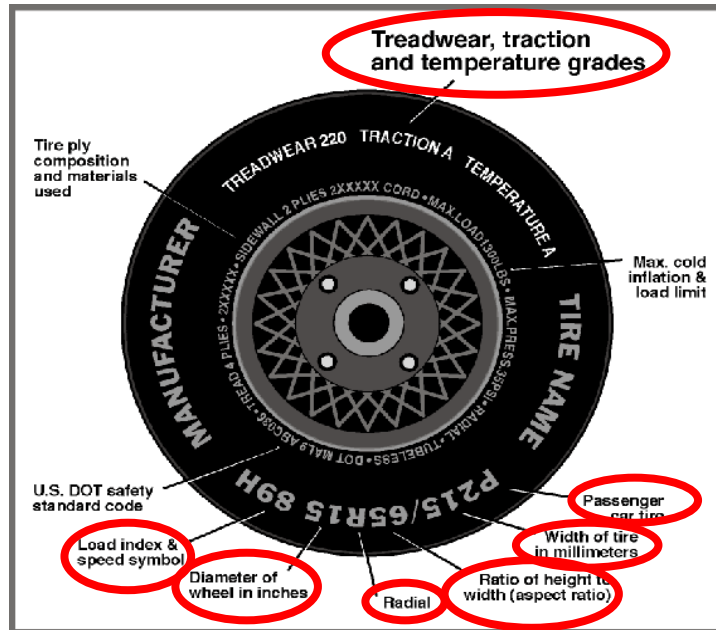
DATA SHEET NO. 1 (CONTINUED)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2010 Toyota Venza

Test Program: Frontal Impact

Test Date: 11/14/13



DATA FROM TIRE PLACARD

Measured Parameter	Front	Rear
Maximum Tire Pressure (kPa)	300	300
Cold / Test Pressure (kPa)	220	220
Recommended Tire Size	245/55R19	245/55R19
Tire Size on Vehicle	P245/55R19	P245/55R19
Tire Manufacturer	Bridgestone	Bridgestone
Tire Model	Dueler H/L	Dueler H/L
Load Index & Speed Symbol	103S	103S
Tread wear	400	400
Traction Grade	B	B

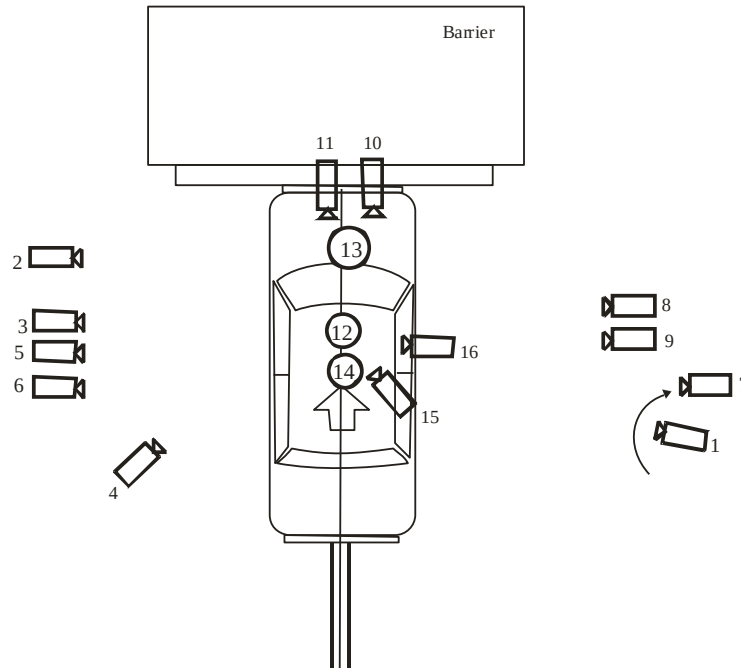
DATA SHEET NO. 2

HIGH SPEED CAMERA LOCATIONS AND DATA

Test Vehicle: 2010 Toyota Venza

Test Program: Frontal Impact

Test Date: 11/14/13



VEHICLE CAMERA MEASUREMENTS TABLE

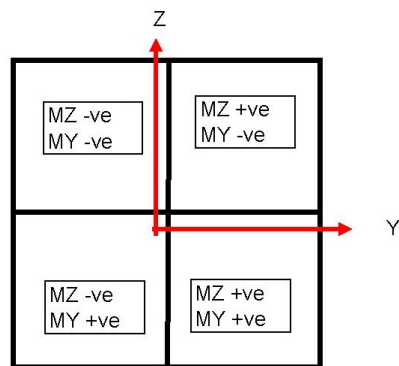
No.	Camera View	Lens (mm)	Speed (fps)	Camera Type
1	Real Time Panning	Zoom	29	Cannon
2	Left Side View (Barrier Face to Front Seat Backs)	25	1000	Forza
3	Left Side View (A-post)	Zoom	1000	Forza
4	Left Side View (B-post Aimed Toward Center of Steering Wheel)	25	1000	HGLE
5	Left Side View (B-post)	25	1000	HGLE
6	Left Side View (Front Door Under Camera 5)	Zoom	1000	HGLE
7	Right Side View (Overall)	12.5	1000	Visario G2
8	Right Side View (A-post)	Zoom	1000	Forza
9	Right Side View (Front Door)	Zoom	1000	Forza
10	Front View Windshield	16	1000	Forza
11	Front View Driver	25	1000	HGLE
12	Overhead Barrier Impact View	12.5	1000	HGLE
13	Pit Camera Engine View	25	1000	Forza
14	Pit Camera Fuel Tank View	8.5	1000	HGLE
15	Onboard Knee Airbag	25	1000	HGLE
16	Onboard Right Side	6	1000	HGLE

DATA SHEET NO. 3 FIXED BARRIER LOAD CELL LOCATIONS

Test Vehicle: 2010 Toyota Venza
Test Program: Frontal Impact

Test Date: 11/14/13

	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
02	109	027	034	019	035	113	105	114	120	044	008	051	007	037	070	110
03	093	108	024	045	011	123	036	048	111	039	013	017	020	097	004	125
04	003	015	009	040	069	100	112	075	091	053	117	032	014	090	079	071
05	038	083	018	042	084	099	089	029	129	067	094	054	063	046	052	081
06	087	092	127	076	057	107	030	016	078	072	055	134	115	049	025	064
07	104	547	592	533	540	531	589	570	562	601	590	619	618	549	523	603
08	607	513	631	630	555	510	528	624	537	520	621	551	610	614	613	558
09	536	501	552	512	557	519	637	640	635	532	561	509	605	514	634	629
10	617	565	616	529	632	598	606	615	650	544	580	548	527	578	625	546
11	074	041	033	059	023	085	102	131	098	128	088	104	077	068	062	012



The load cell blocks of rows 7, 8, 9 and 10 represent tri-axial load cells; Force X, Moment Y, & Moment Z data channels were recorded for this test. The load cell blocks of rows 2, 3, 4, 5, 6 and 11 represent uni-axial load cells; Force X data channels were recorded for this test. Row 1 load cells were not recorded for this test.

Load cell X-Axis compressive forces are negative.

The barrier to ground height was 80 millimeters for this test.

DATA SHEET NO. 4

POST-TEST OBSERVATIONS

Test Vehicle: 2010 Toyota Venza

Test Program: Frontal Impact

Test Date: 11/14/13

SPEED TRAP DATA

Measured Parameter	Units	Requirements	Value
Trap No. 1 Velocity (Primary)	km/h	40.2	40.37

TEST DUMMY INFORMATION

DOOR OPENING AND SEAT TRACK INFORMATION

Description	Left	Right
Locked / Unlocked Doors	Unlocked	Unlocked
Front Door Opening	Opened	Opened
Rear Door Opening	Opened	Opened
Seat Track Shift (mm)	None	N/A
Seat Back Failure	None	N/A
Glazing Damage	None	None

POST TEST STRUCTURAL OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Windshield Damage	Broken
Window Damage	None
Other Notable Effects	None

VEHICLE REBOUND FROM BARRIER

Measured Parameter	Units	Value
Left Side	mm	1880
Center	mm	1846
Right Side	mm	1893
Average	mm	1873

DATA SHEET NO. 5
VEHICLE INTRUSION MEASUREMENTS

Test Vehicle: 2010 Toyota Venza
Test Program: Frontal Impact

Test Date: 11/14/13

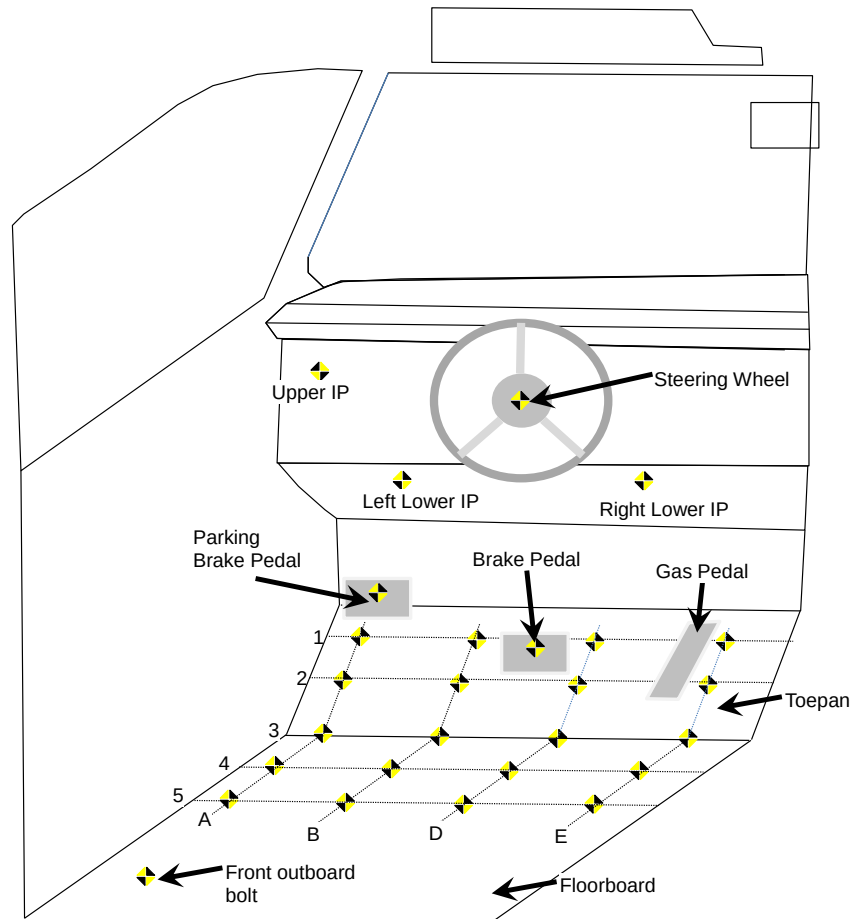


Figure 1 Vehicle Intrusion Measurements

DATA SHEET NO. 5 (CONTINUED)
VEHICLE INTRUSION MEASUREMENTS

Test Vehicle: 2010 Toyota Venza

Test Program: Frontal Impact

Test Date: 11/14/13

Table 1 Vehicle Intrusion Measurements

Measurement	Pre-Test			Post-Test			Difference		
	X	Y	Z	X	Y	Z	X	Y	Z
M_STEERING_COLUMN	581	462	-122	607	462	-68	-26	-1	-55
M_BRAKE_PEDAL	1072	479	380	1073	486	376	0	-6	4
M_PARK_BRAKE_PEDAL	946	242	305	946	242	302	0	-1	3
M_DR_A1	1145	230	380	1137	229	372	8	1	7
M_DR_A2	1139	229	447	1133	230	440	7	0	7
M_DR_A3	1136	228	518	1130	229	511	5	-1	7
M_DR_A4	1087	231	548	1084	232	544	2	-1	4
M_DR_A5	1036	231	575	1035	232	571	1	-1	4
M_DR_B1	1220	332	379	1208	335	368	12	-3	12
M_DR_B2	1202	328	447	1195	328	437	7	0	10
M_DR_B3	1139	332	515	1135	332	507	5	-1	8
M_DR_B4	1091	330	550	1087	330	543	3	0	7
M_DR_B5	1042	329	571	1039	330	565	3	-2	6
M_DR_C1	1288	480	379	1279	481	367	9	-1	13
M_DR_C2	1232	480	448	1225	482	437	7	-2	11
M_DR_C3	1145	481	517	1140	482	508	5	-1	9
M_DR_C4	1092	477	551	1088	478	543	4	-1	8
M_DR_C5	1045	479	568	1041	480	561	4	-2	6
M_DR_D1	1254	626	381	1244	629	371	10	-2	11
M_DR_D2	1222	631	451	1216	632	441	6	-1	9
M_DR_D3	1145	629	516	1141	631	508	4	-2	8
M_DR_D4	1096	630	547	1092	630	539	5	0	8
M_DR_D5	1047	632	564	1043	631	558	3	1	6
M_DR_FRT_OB_SEAT_BOLT	515	258	512	513	259	513	2	0	0
M_UPPER_DASH_POINT	834	210	-122	835	212	-125	-1	-2	3
M_DR_LEFT_LWR_IP	808	313	101	806	315	101	2	-2	0
M_DR_RIGHT_LWR_IP	806	611	100	804	611	94	2	0	6
M_STRIKER_FACE	33	-4	19	33	-2	20	0	-2	-1

DATA SHEET NO. 6
VEHICLE MEASUREMENTS

Test Vehicle: 2010 Toyota Venza

Test Program: Frontal Impact

Test Date: 11/14/13

No.	Type of measurement	Pre-Test	Post-Test	Difference
X1	Total Length of Vehicle at Centerline	4783	4473	310
X2	Rear Surface of Vehicle to Front of Engine Block	4148	3963	185
X3	Rear Surface of Vehicle to Firewall	3853	3828	25
X4	Rear Surface of Vehicle to Upper Leading Edge of Right Door	3305	3301	4
X5	Rear Surface of Vehicle to Upper Leading Edge of Left Door	3308	3303	5
X6	Rear Surface of Vehicle to Lower Leading Edge of Right Door	3297	3297	0
X7	Rear Surface of Vehicle to Lower Leading Edge of Left Door	3300	3302	-2
X8	Rear Surface of Vehicle to Upper Trailing Edge of Right Door	2275	2270	5
X9	Rear Surface of Vehicle to Upper Trailing Edge of Left Door	2283	2279	4
X10	Rear Surface of Vehicle to Lower Trailing Edge of Right Door	2273	2276	-3
X11	Rear Surface of Vehicle to Lower Trailing Edge of Left Door	2283	2286	-3
X12	Rear Surface of Vehicle to Bottom of " A " Post on Right Side	3249	3261	-12
X13	Rear Surface of Vehicle to Bottom of " A " Post on Left Side	3245	3240	5
X14	Rear Surface of Vehicle to Firewall-Right Side	3935	3913	22
X15	Rear Surface of Vehicle to Firewall-Left Side	3935	3938	-3
X16	Rear Surface of Vehicle to Steering Wheel Center	2921	2935	-14
X17	Center of Steering Column to " A " Post	325	318	7
X18	Center of Steering Column to Headliner	415	450	-35
X19	Rear Surface of Vehicle to Right Side of Front Bumper	4595	4433	162
X20	Rear Surface of Vehicle to Left Side of Front Bumper	4595	4448	147
X21	Length of Engine Block	550	550	0
	Left Front Overhang	910	615	295
	Right Front Overhang	910	640	270
X26	Firewall to Engine or Transaxle	108	-33	141
X27	Vertical Distance from Door Sill to Centerline of Steering Column	655	587	68
X28	Left Wheelbase	2768	2740	28
X28	Right Wheelbase	2768	2720	48
X29	Maximum Width	1905	1905	0
X30	Rear Surface of Vehicle to Engine Bottom Target	4058	3968	90
X31	Rear Surface of Vehicle to Occupant Compartment Bottom Targets	2416	2436	-20
X32	Rear Surface of Vehicle to Front Bumper Bottom Target	4701	4390	311
X33	Rear Surface of Vehicle to Frame Crossmember Bottom Target	3663	3600	63
RD	Rear Surface of Vehicle to Right Side of Dash Panel	3168	3186	-18
CD	Rear Surface of Vehicle to Center of Dash Panel	3108	3113	-5
LD	Rear Surface of Vehicle to Left Side of Dash Panel	3170	3167	3

All distance measurements are in millimeters

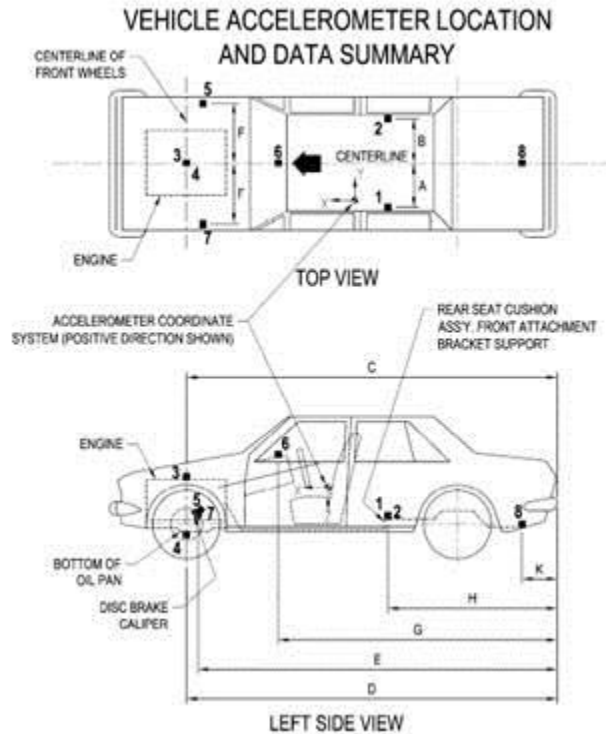
DATA SHEET NO. 7

VEHICLE ACCELEROMETER DATA

Test Vehicle: 2010 Toyota Venza

Test Program: Frontal Impact

Test Date: 11/14/13



VEHICLE ACCELEROMETER PRE-TEST LOCATIONS

No.	Camera View	Location (mm)		
		X	Y	Z
1	Rear seat cross-member on left side of vehicle	2245	-330	-495
2	Rear seat cross-member on right side of vehicle	2250	320	-497
3	Top of engine block	4490	35	-920
4	Bottom of engine	4475	205	-222
5	Right front disc brake caliper	4560	692	-327
6	Center of instrument panel top surface	3812	0	-1056
7	Left front disc brake caliper	4560	-692	-325
8	Vehicle longitudinal center line in the trunk	620	0	-565

Reference Points: X – Rear Surface of Vehicle (+ forward)
Y – Vehicle Centerline (+ to right)
Z – Ground Plane (+ down)

DATA SHEET NO. 8
PHOTOGRAPHIC REFERENCE TARGET LOCATIONS

Test Vehicle: 2010 Toyota Venza

Test Program: Frontal Impact

Test Date: 11/14/13

Item	Value
Vehicle Centerline to Center of Front Roof Targets	405
Vehicle Centerline to C-Pillar Target	630
Center of Front Roof Targets to Center of Rear Roof Targets	610
Barrier Face to Center of Targets Suspended Over Vehicle	N/A
Rear Roof Targets Center to Left C-Pillar Target	478
Steering Column Target to Left C-Pillar Target	1166
Left Front Sill Target to Left Mid Sill Target	894
Left Mid Sill Target to Left Rear Sill Target	899
Left Rear Sill Target to Rear Roof Targets Center	-333
Front of Vehicle to Left Front Sill Target	1207
Left Mid Sill Target to Rear Roof Targets Center	570
Rear Roof Targets Center (Left) to Rear of Vehicle	1924
Rear Roof Targets Center to Right C-Pillar Target	480
Right Rear Sill Target to Rear Roof Targets Center	-330
Right Mid Sill Target to Right Rear Sill Target	900
Right Front Sill Target to Right Mid Sill Target	890
Rear Roof Targets Center (Right) to Rear of Vehicle	1921
Right Mid Sill Target to Rear Roof Targets Center	570
Front of Vehicle to Right Front Sill Target	1214

All units in millimeters

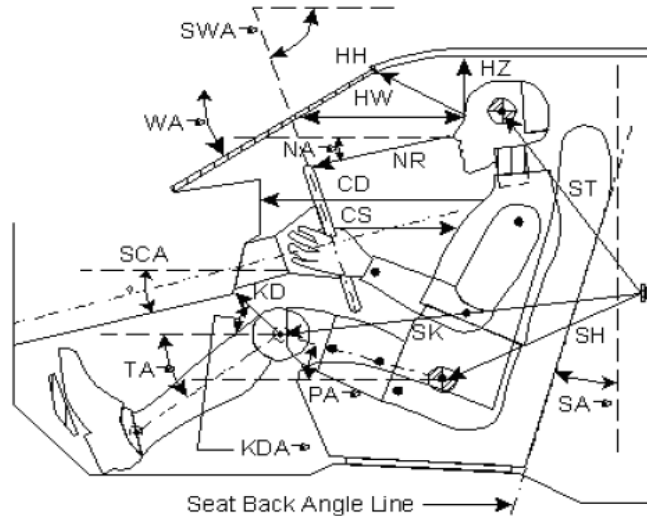
DATA SHEET NO. 9

DUMMY LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle: 2010 Toyota Venza

Test Program: Frontal Impact

Test Date: 11/14/13



Code	Tape Measure Measurement Description	Driver	
		Length (mm)	Angle (°)
WA°	Windshield Angle		28.8°
SWA°	Steering Wheel Angle		65.3°
SCA°	Steering Column Angle		24.7°
SA°	Seat Back Angle (on headrest post)		6.7°
HZ	Head to Roof (Z)	N/A	
HH	Head to Header	N/A	
HW	Head to Windshield	N/A	
NR	Nose to Rim	N/A	
NA	Nose to Rim Angle		N/A
CD	Chest to Dash	N/A	
CS	Chest to Steering Hub	N/A	
RA	Rim to Abdomen	N/A	
KDL	Left Knee to Dash	N/A	N/A
KDR	Right Knee to Dash	N/A	N/A
KDA	Outboard Knee to Dash Angle		30°L/26.1°R
PA°	Pelvic Angle		21.9°
TA°	Tibia Angle		56.3°
SK	Striker to Knee	704	12.5°
ST	Striker to Head	N/A	N/A
SH	Striker to H-Point	N/A	N/A
Left Heel to Seat Front Crossmember		375	N/A
Right Heel to Seat Front Crossmember		322	N/A

DATA SHEET NO. 9 (CONTINUED)**DUMMY LONGITUDINAL CLEARANCE DIMENSIONS**Test Vehicle: 2010 Toyota VenzaTest Program: Frontal ImpactTest Date: 11/14/13

Code	FARO Measurement Description	Driver	
		Length (mm)	Angle (°)
WA°	Windshield Angle		25.7°
SWA°	Steering Wheel Angle		64.8°
SCA°	Steering Column Angle		25.2°
SA°	Seat Back Angle (on headrest post)		2.5°
HZ	Head to Roof (Z)	267	
HH	Head to Header	397	
HW	Head to Windshield	812	
NR	Nose to Rim		
NA	Nose to Rim Angle	343	1.2°
CD	Chest to Dash	498	
CS	Chest to Steering Hub	283	
RA	Rim to Abdomen	140	
KDL	Left Knee to Dash	112	
KDR	Right Knee to Dash	107	
KDA	Outboard Knee to Dash Angle		33.7°
PA°	Pelvic Angle		22.0°
TA°	Tibia Angle		52.2°
SK	Striker to Knee	704	12.5°
ST	Striker to Head	393	-62.1°
SH	Striker to H-Point	415	31.0°

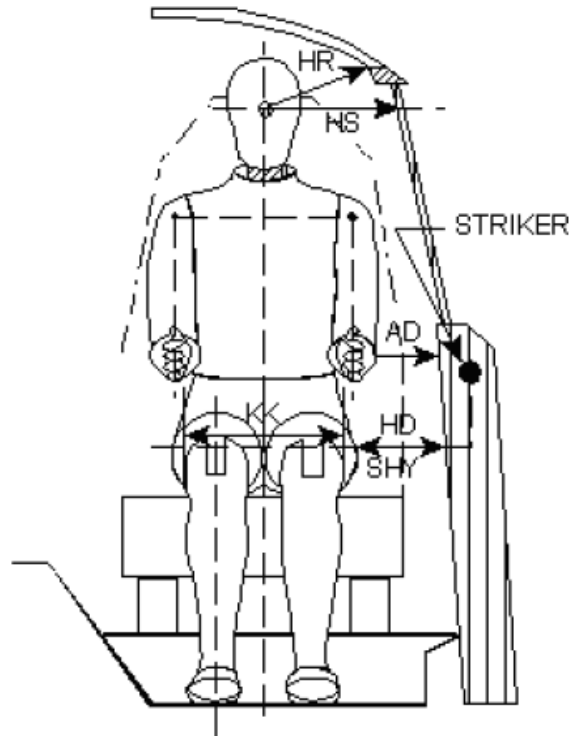
DATA SHEET NO. 10

DUMMY LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 2010 Toyota Venza

Test Program: Frontal Impact

Test Date: 11/14/13



Code	Tape Measure Measurement Description	Driver
AD	Arm to Door	N/A
HD	H-Point to Door	N/A
HR	Head to Side Header	N/A
HS	Head to Side Window	N/A
KK	Knee to Knee	200
SHY	Striker to H-Point (Y Direction)	N/A
AA	Ankle to Ankle	N/A

DATA SHEET NO. 10 (CONTINUED)

DUMMY LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 2010 Toyota Venza

Test Program: Frontal Impact

Test Date: 11/14/13

Code	FARO Measurement Description	Driver
AD	Arm to Door	188
HD	H-Point to Door	58
HR	Head to Side Header	279
HS	Head to Side Window	405
KK	Knee to Knee	191
SHY	Striker to H-Point (Y Direction)	193
AA	Ankle to Ankle	N/A

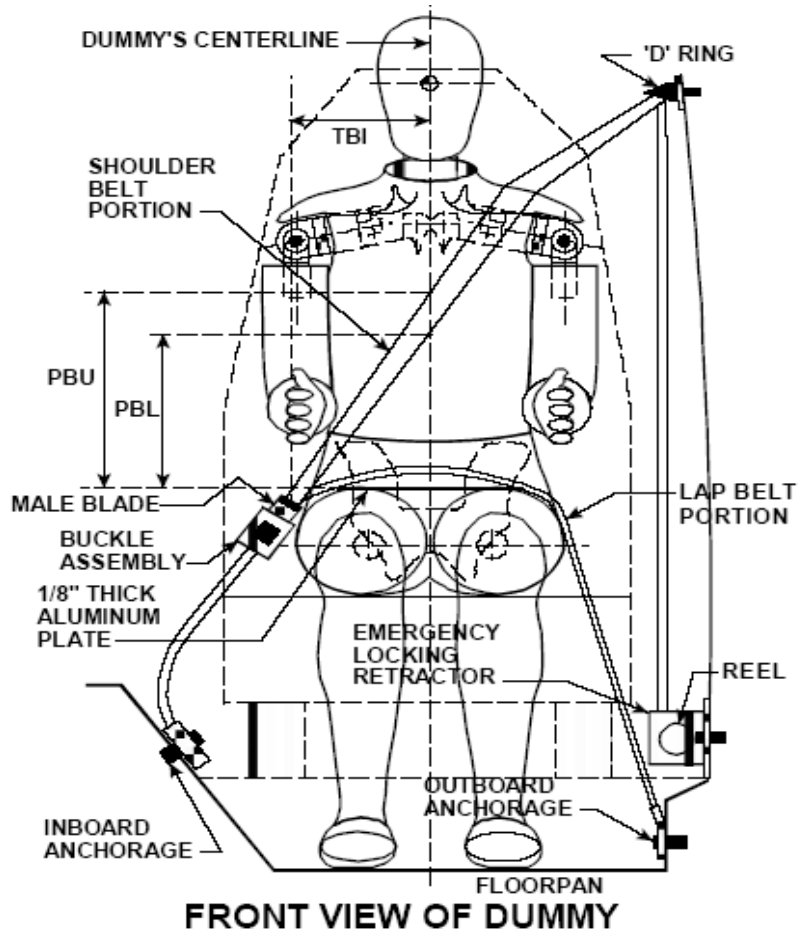
DATA SHEET NO. 11

SEAT BELT POSITIONING DATA

Test Vehicle: 2010 Toyota Venza

Test Program: Frontal Impact

Test Date: 11/14/13



SEAT BELT POSITIONING MEASUREMENTS

Measurement Description	Units	Driver
PBU – Top surface of reference to belt upper edge	mm	333
PBL – Top surface of reference to belt lower edge	mm	250

BELT LENGTH DATA

Measurement Description	Units	Driver
Shoulder belt length as measured on ATD	mm	955
Lap belt length as measured on ATD	mm	895
Remainder of belt on reel	mm	695
Total belt length for continuous webbing systems	mm	2545

APPENDIX A
PHOTOGRAPHS

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Figure A-1 Pre-Test Front View

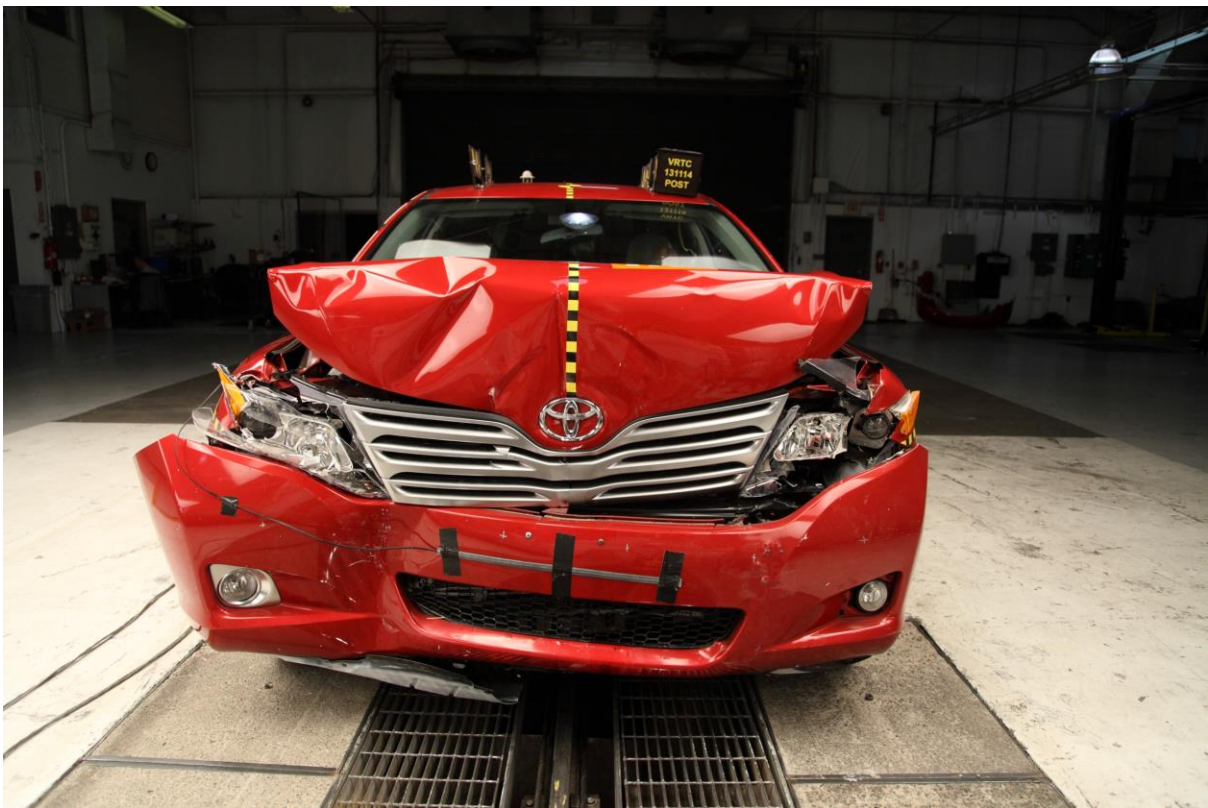


Figure A-2 Post-Test Front View



Figure A-3 Pre-Test Left Front View



Figure A-4 Post-Test Left Front View



Figure A-5 Pre-Test Left Side View



Figure A-6 Post-Test Left Side View

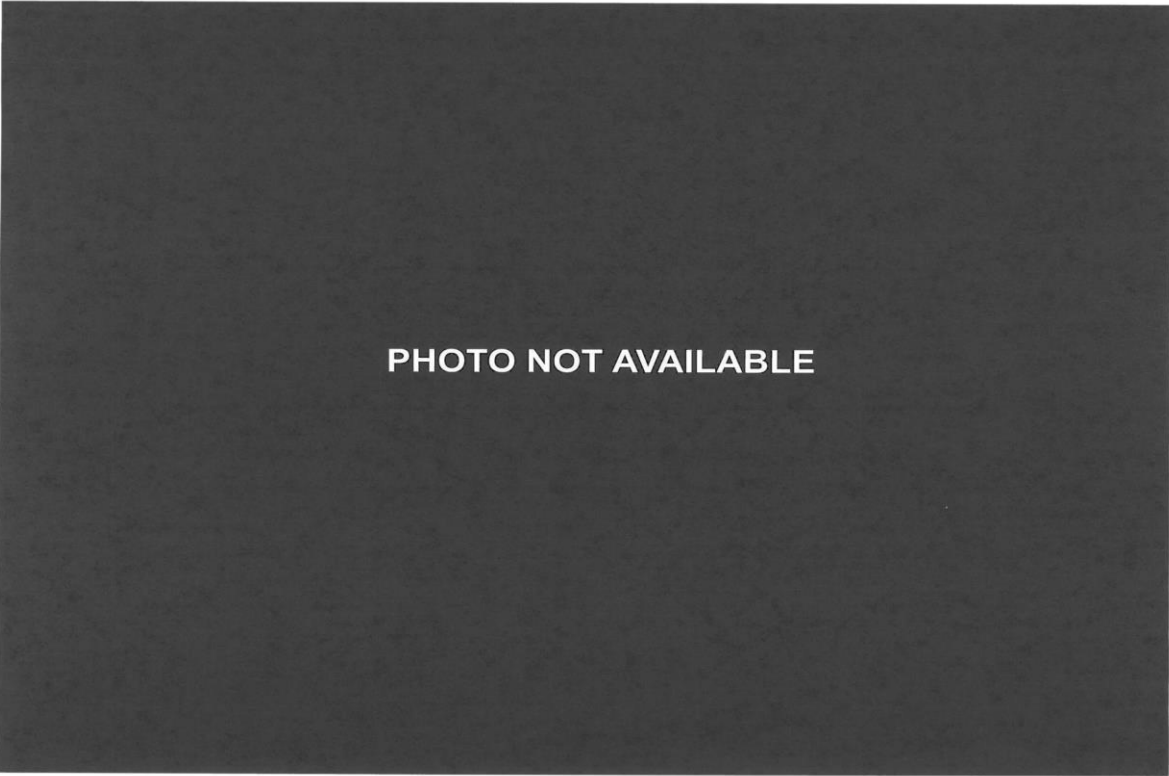


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Figure A-7 Pre-Test Left Rear View

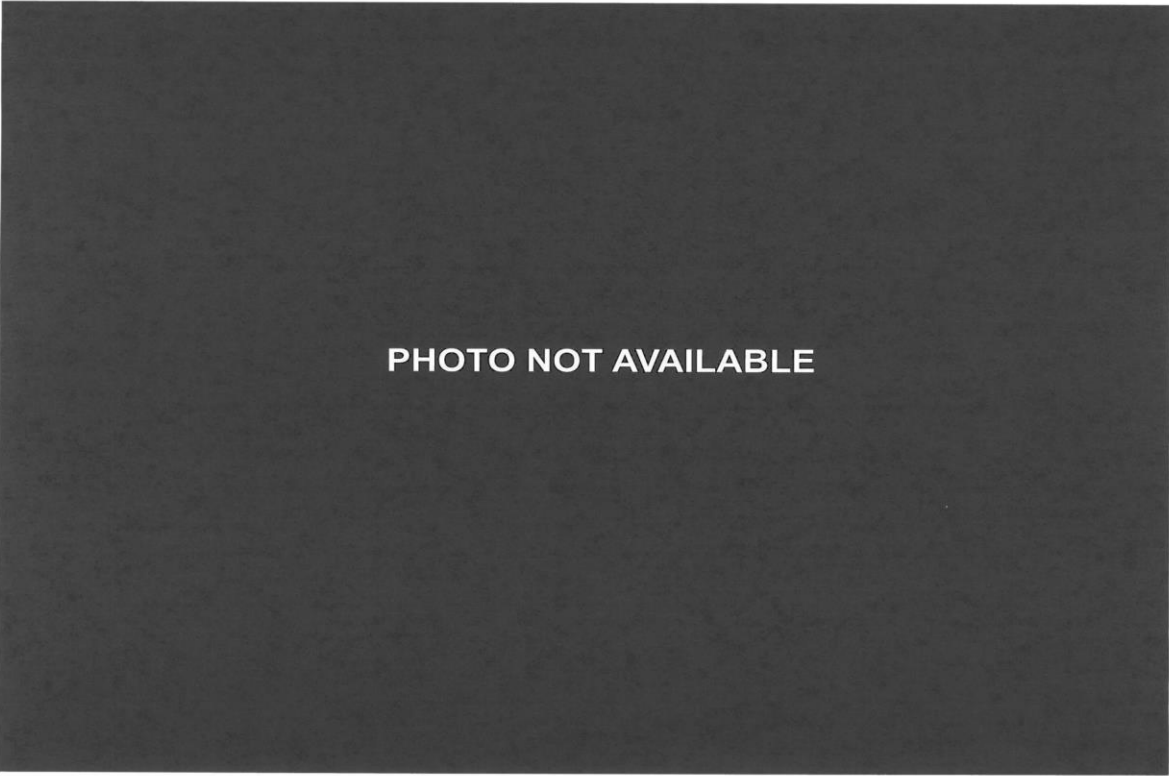


PHOTO NOT AVAILABLE

Figure A-8 Post-Test Left Rear View



Figure A-9 Pre-Test Right Rear View



Figure A-10 Post-Test Right Rear View



Figure A-11 Pre-Test Right Side View



Figure A-12 Post-Test Right Side View

PHOTO NOT AVAILABLE

Figure A-13 Pre-Test Right Front View

PHOTO NOT AVAILABLE

Figure A-14 Post-Test Right Front View



Figure A-15 Pre-Test Engine Compartment View



Figure A-16 Post-Test Engine Compartment View

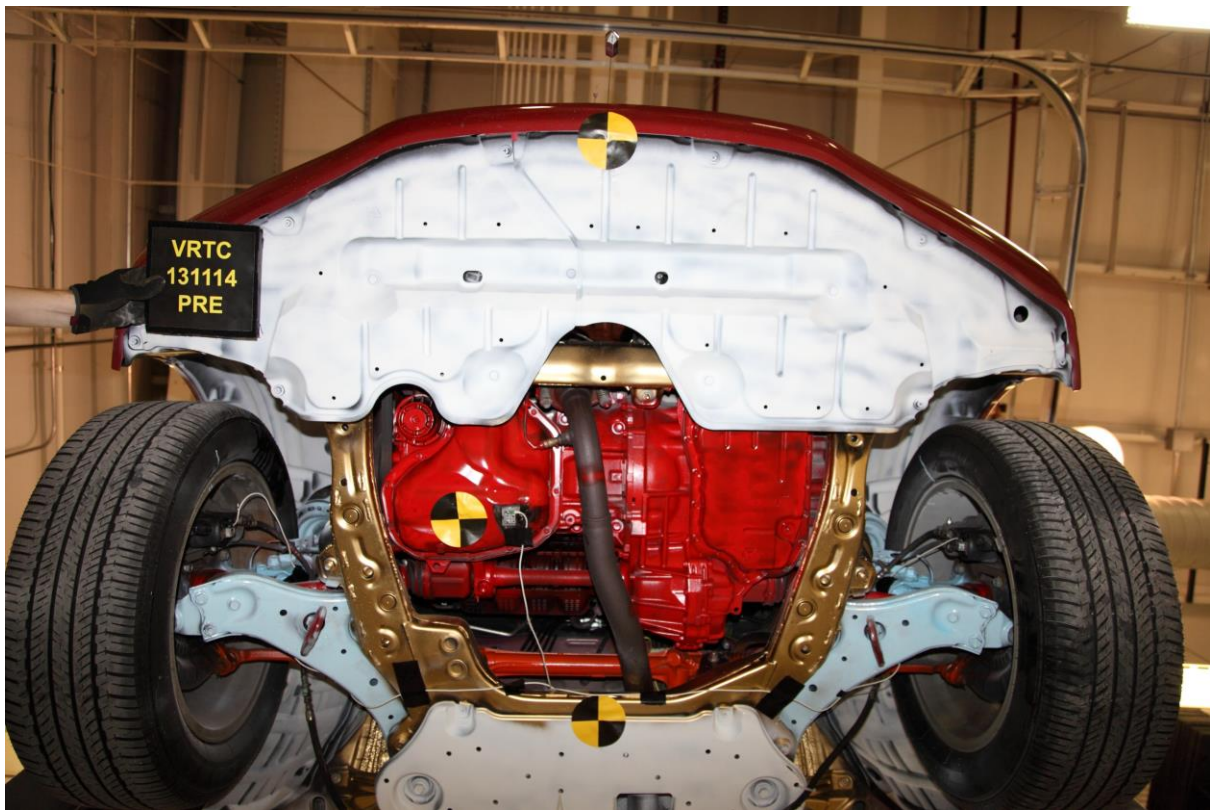


Figure A-17 Pre-Test Front Underbody View

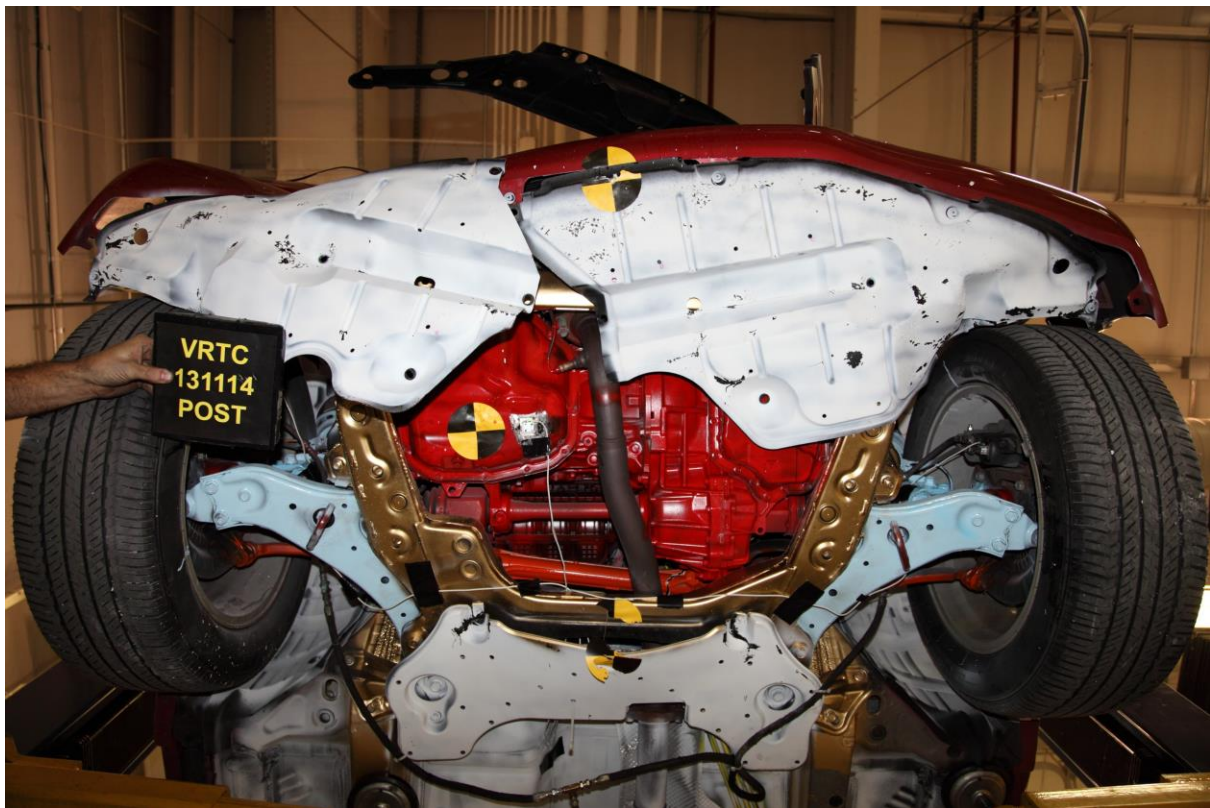


Figure A-18 Post-Test Front Underbody View

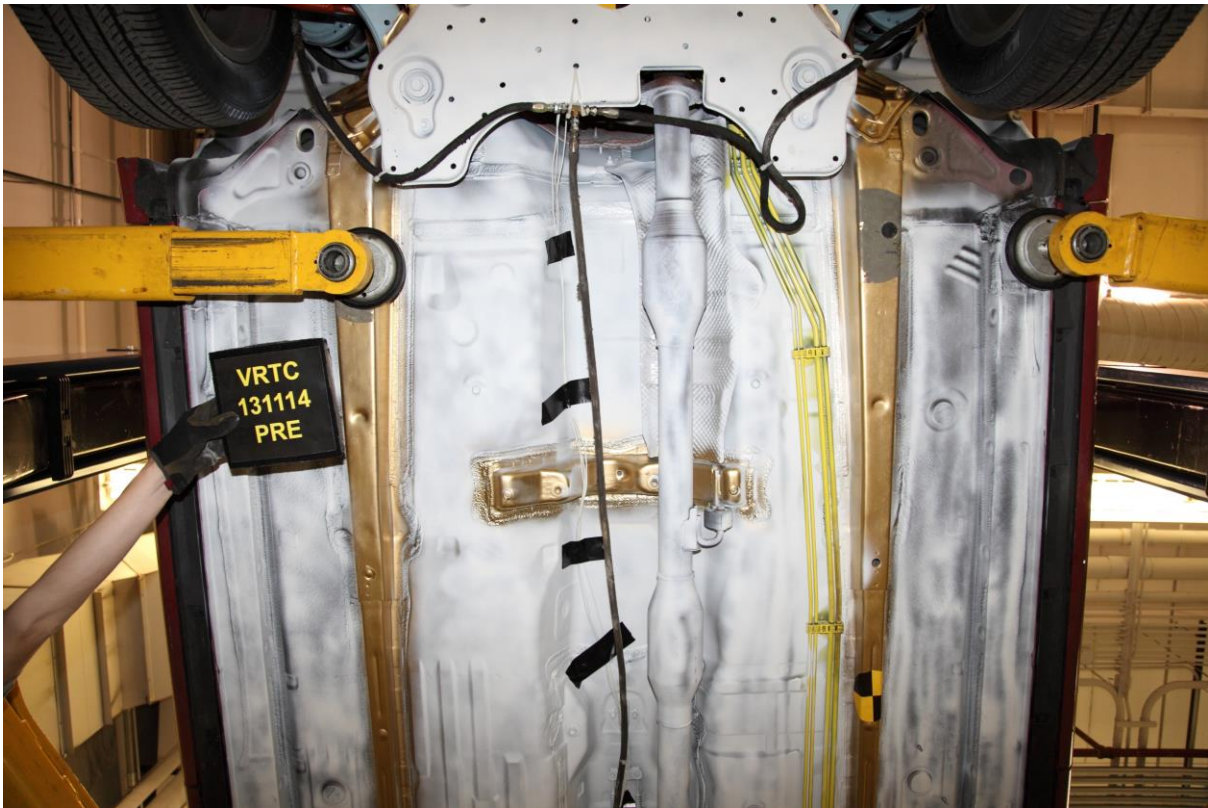


Figure A-19 Pre-Test Mid Front Underbody View

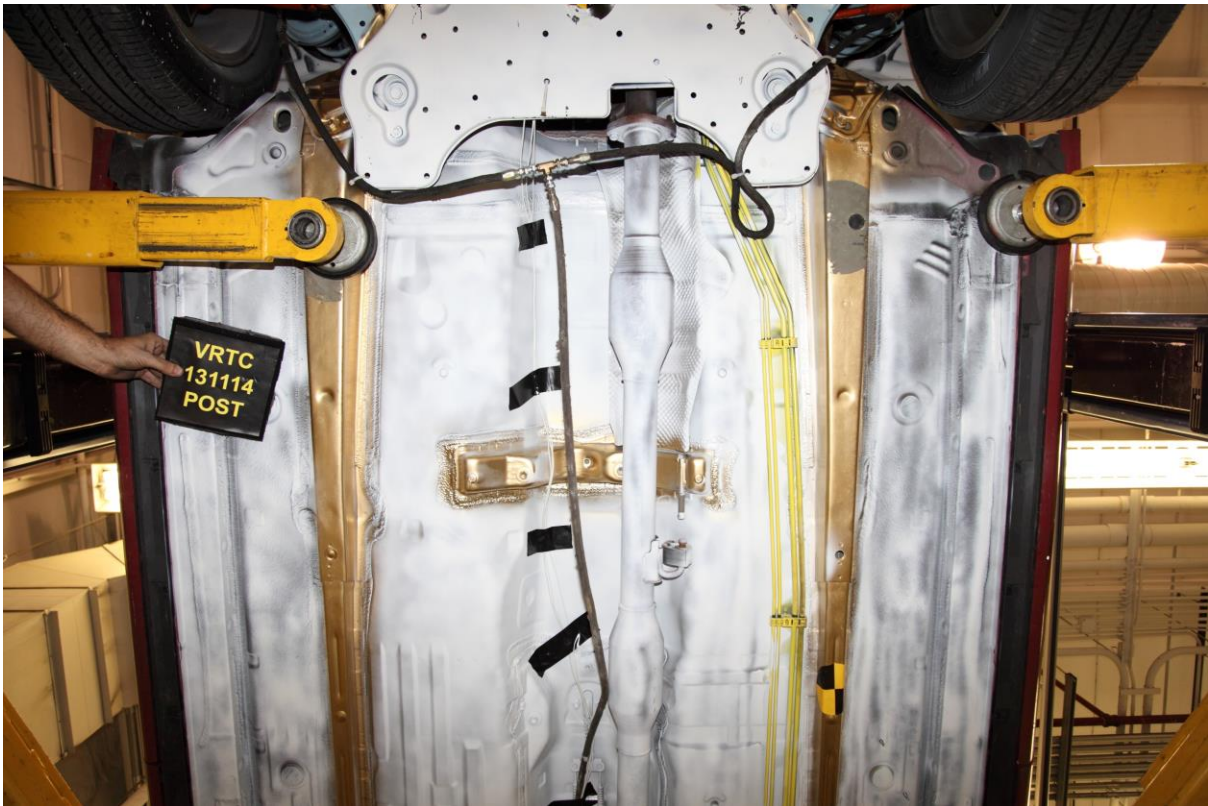


Figure A-20 Post-Test Mid Front Underbody View



Figure A-21 Pre-Test Mid Rear Underbody View

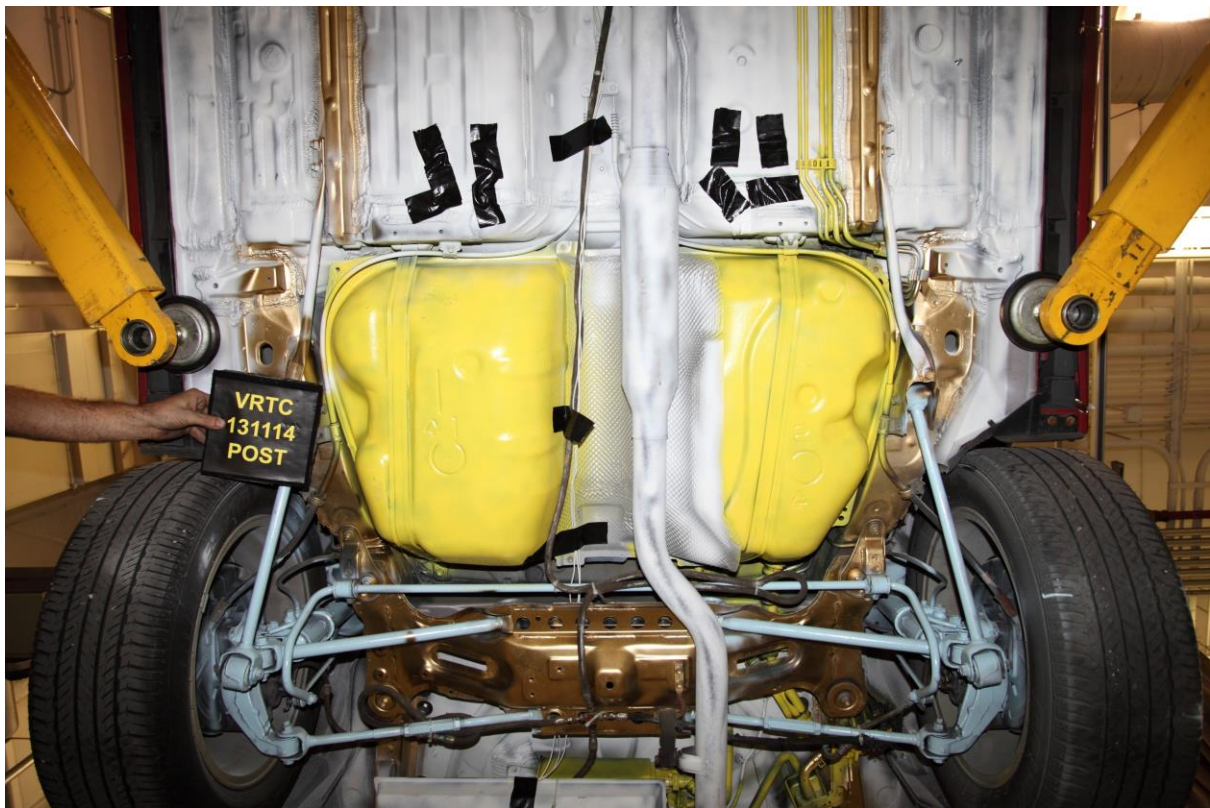


Figure A-22 Post-Test Mid Rear Underbody View

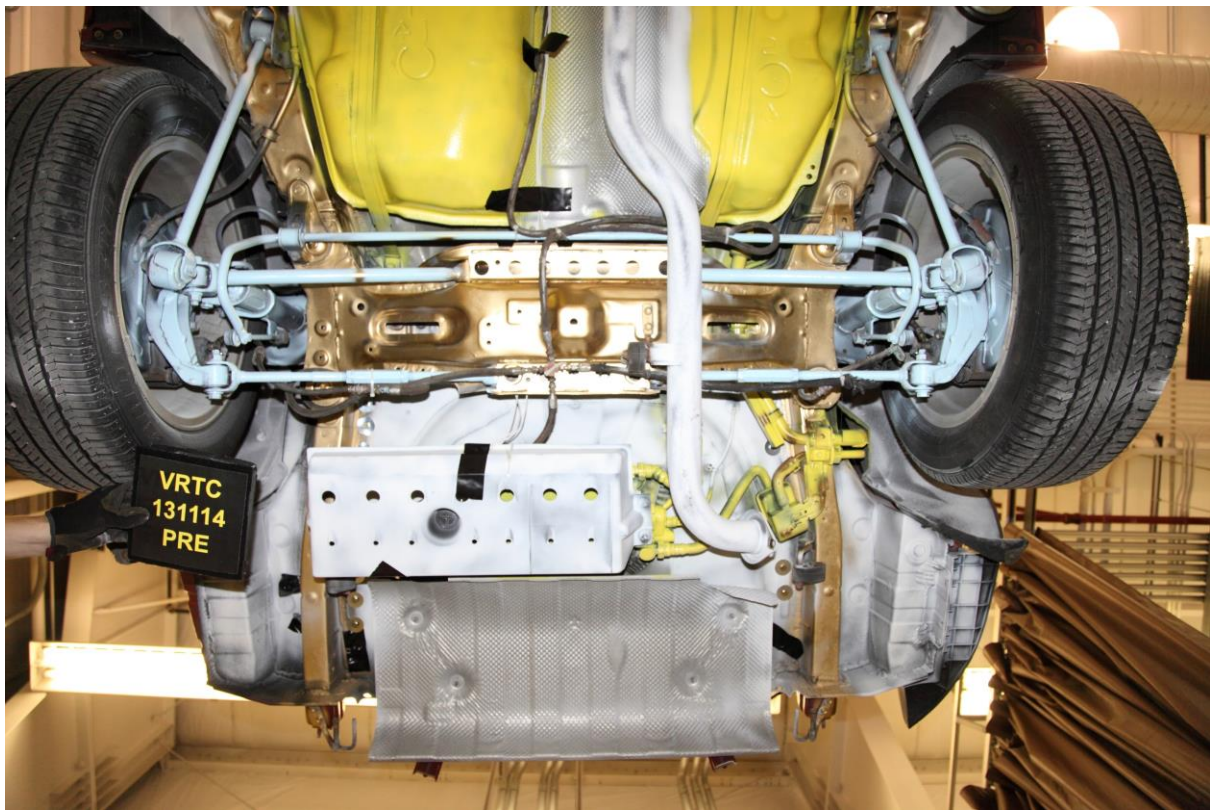


Figure A-23 Pre-Test Rear Underbody View

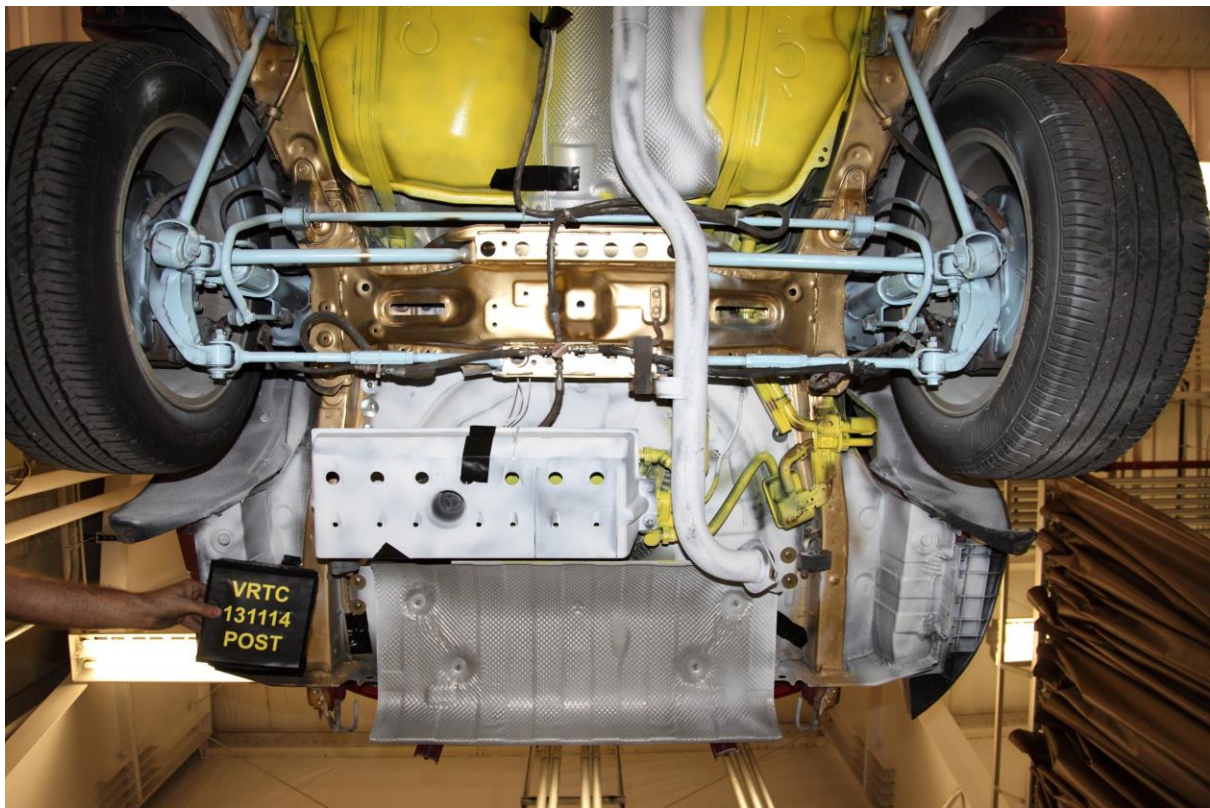


Figure A-24 Post-Test Rear Underbody View



Figure A-25 Pre-Test Windshield View



Figure A-26 Post-Test Windshield View



Figure A-27 Pre-Test Driver Dummy – View 1



Figure A-28 Post-Test Driver Dummy – View 1



Figure A-29 Pre-Test Driver Dummy – View 2



Figure A-30 Post-Test Driver Dummy – View 2



Figure A-31 Pre-Test Driver Dummy – View 3



Figure A-32 Post-Test Driver Dummy – View 3



Figure A-33 Post-Test Driver Dummy Contact – View 1



Figure A-34 Post -Test Driver Dummy Contact – View 2



Figure A-35 Post-Test Driver Dummy Contact – View 3



Figure A-36 Post-Test Driver Dummy Contact – View 4

APPENDIX B
VEHICLE AND BARRIER RESPONSE DATA PLOTS



2010 Toyota Venza Into 304-Channel Load Cell Barrier

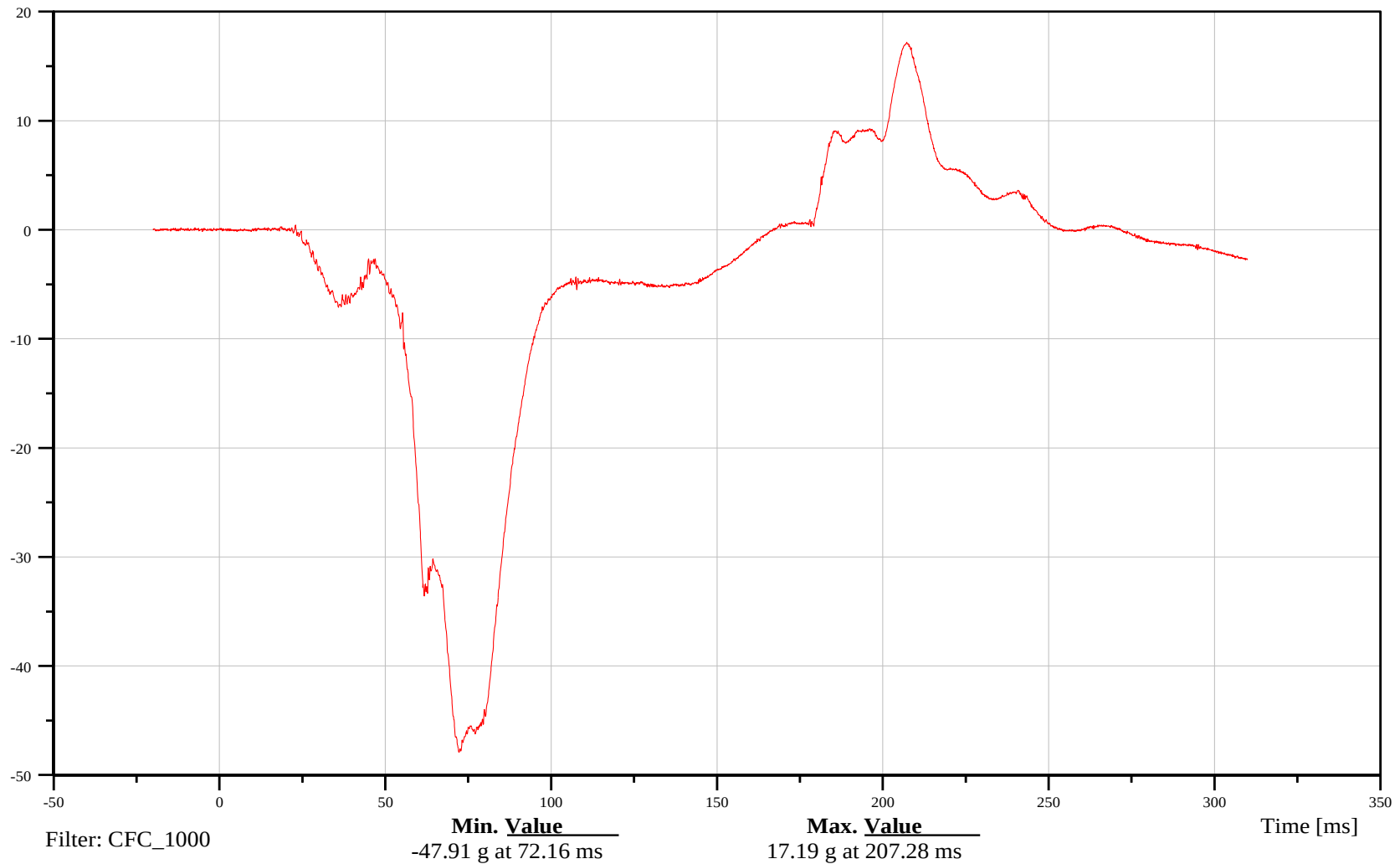
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Time: 15:28

Customer: VRTC
Test Number: 131114

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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

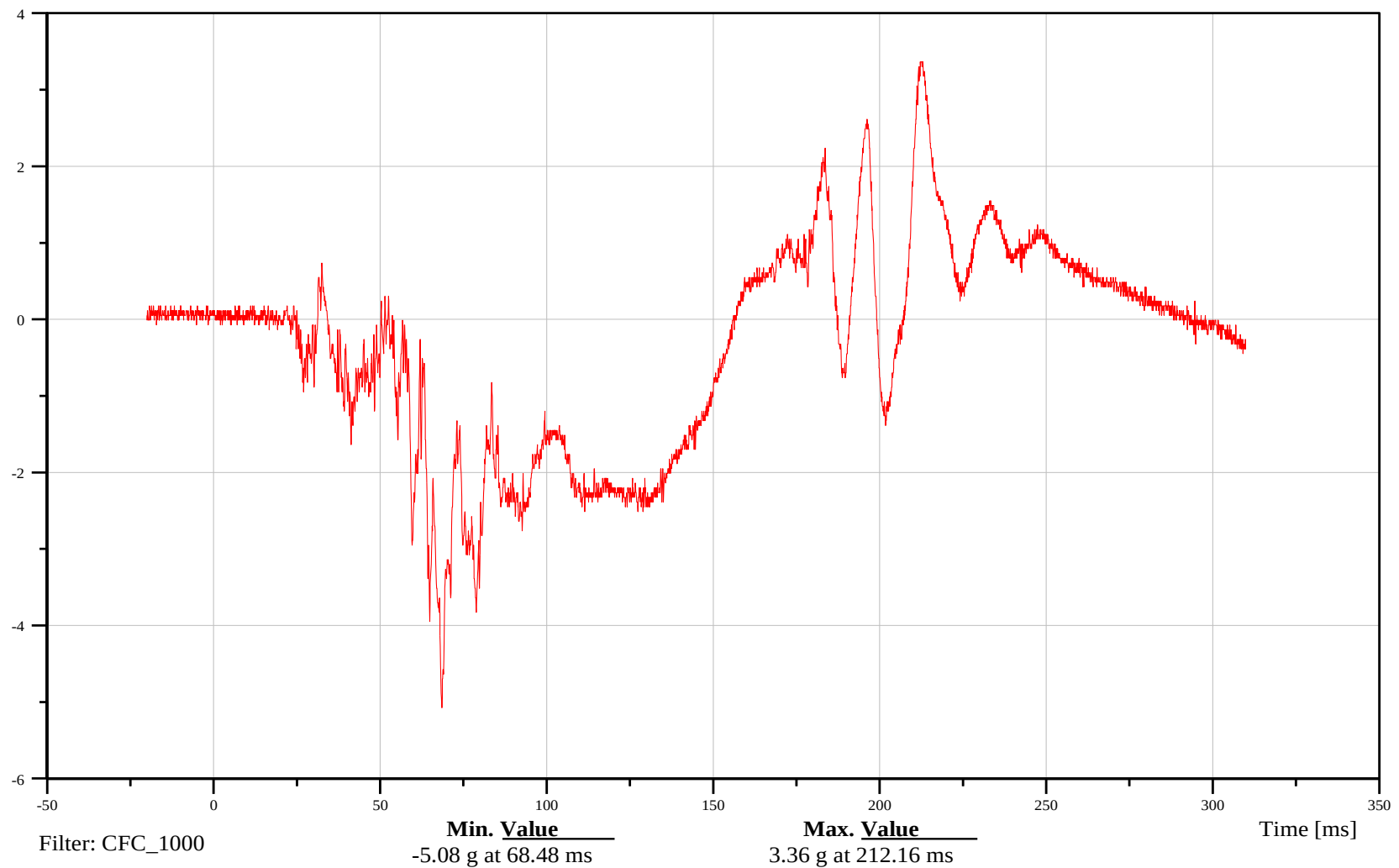
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Time: 15:28

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Test Number: 131114

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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

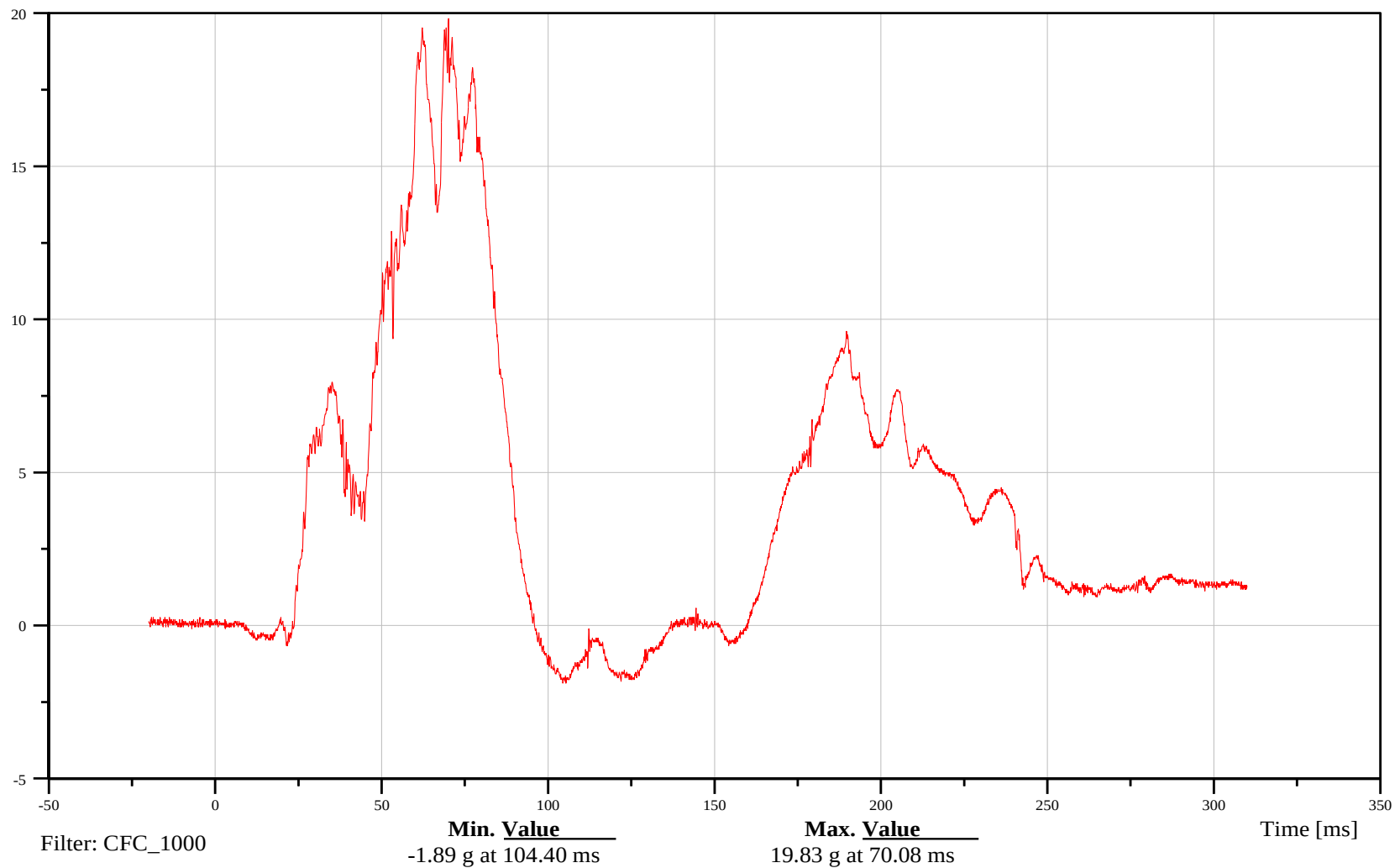
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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

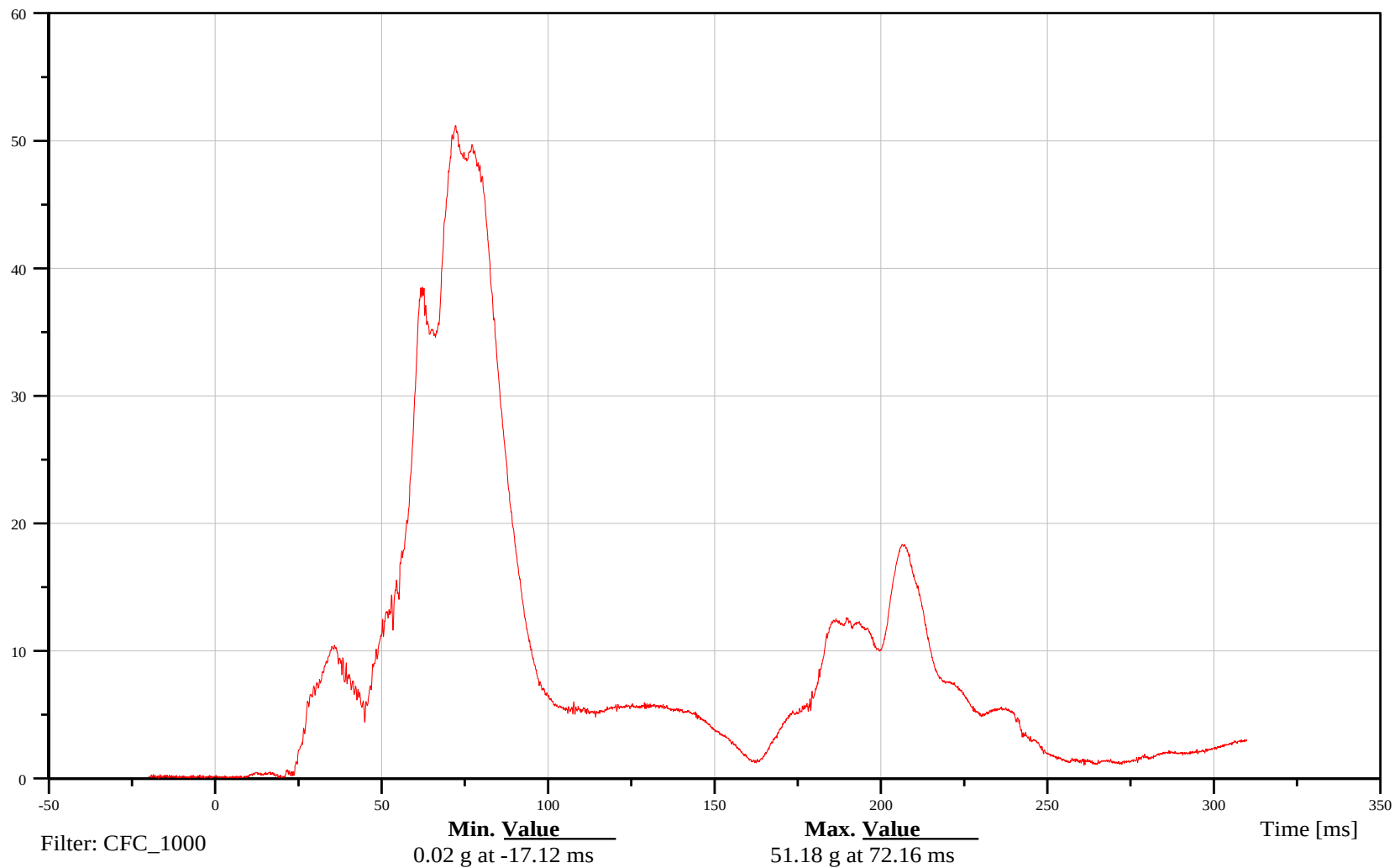
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Time: 15:28

Head Accel Resultant

Customer: VRTC
Test Number: 131114

11HEADCG00HFACRA

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

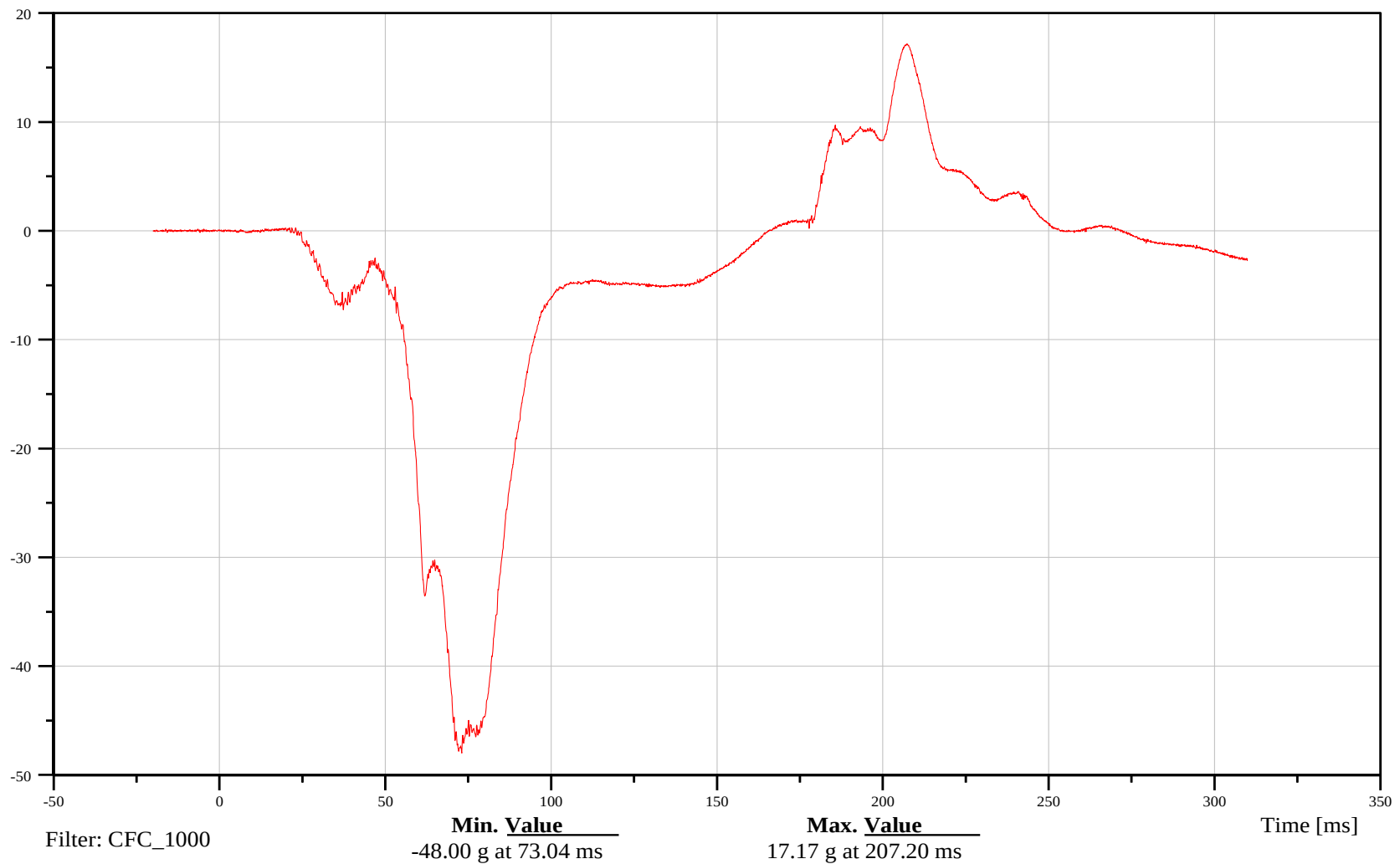
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Head Red. Accel X

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Test Number: 131114

11HEADCGRDHFACXA

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

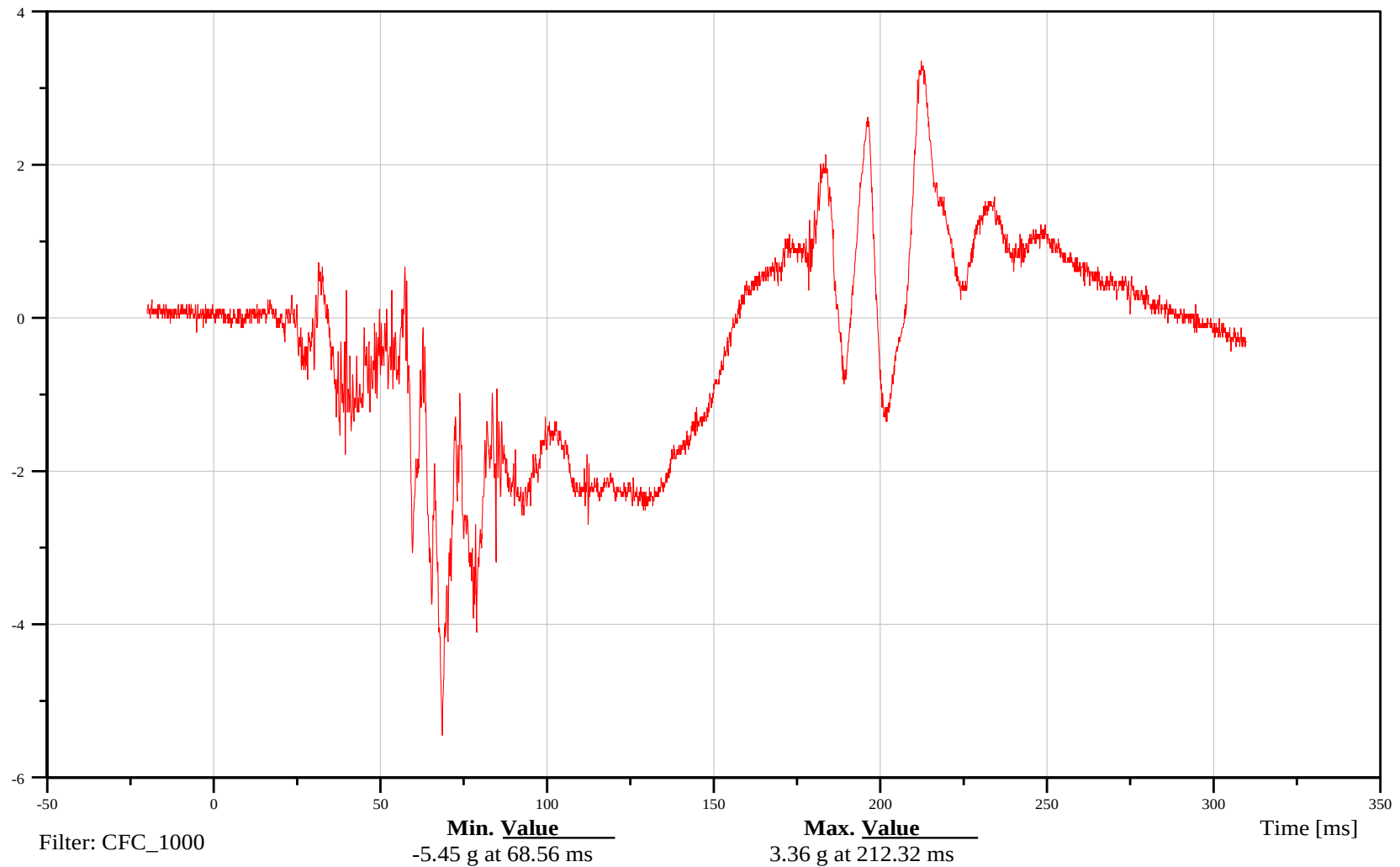
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Time: 15:28

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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

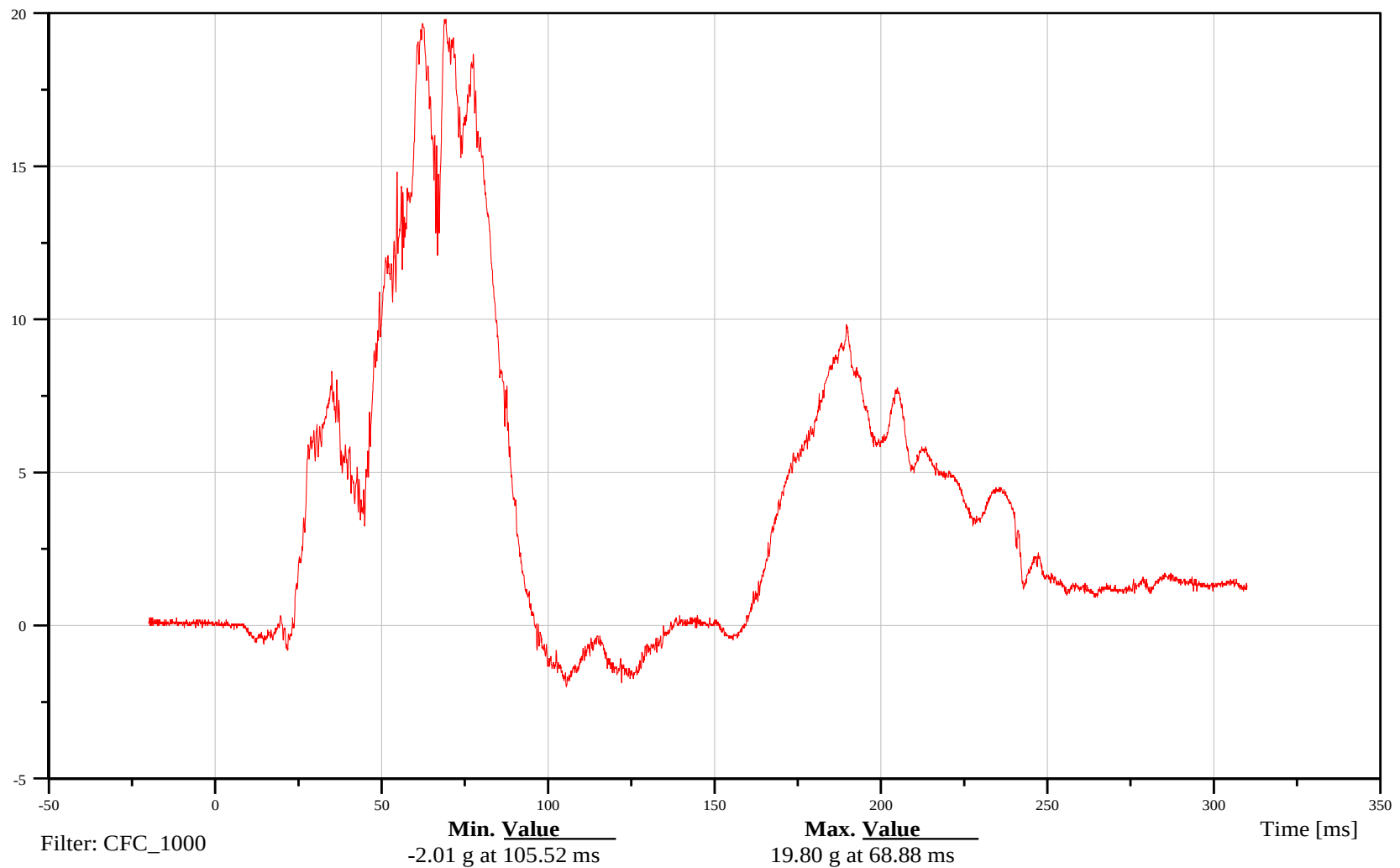
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11HEADCGRDHFACZA

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

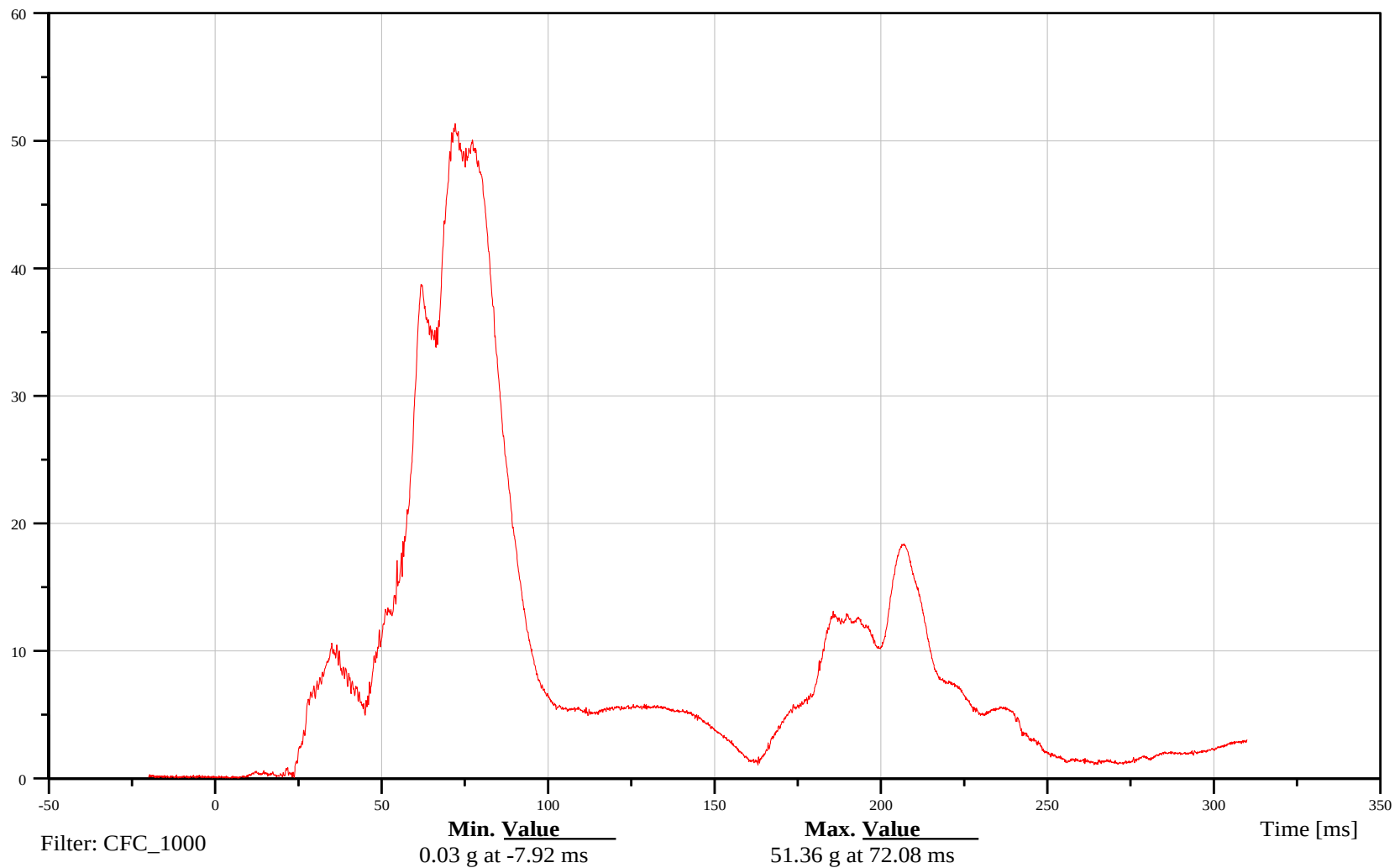
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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

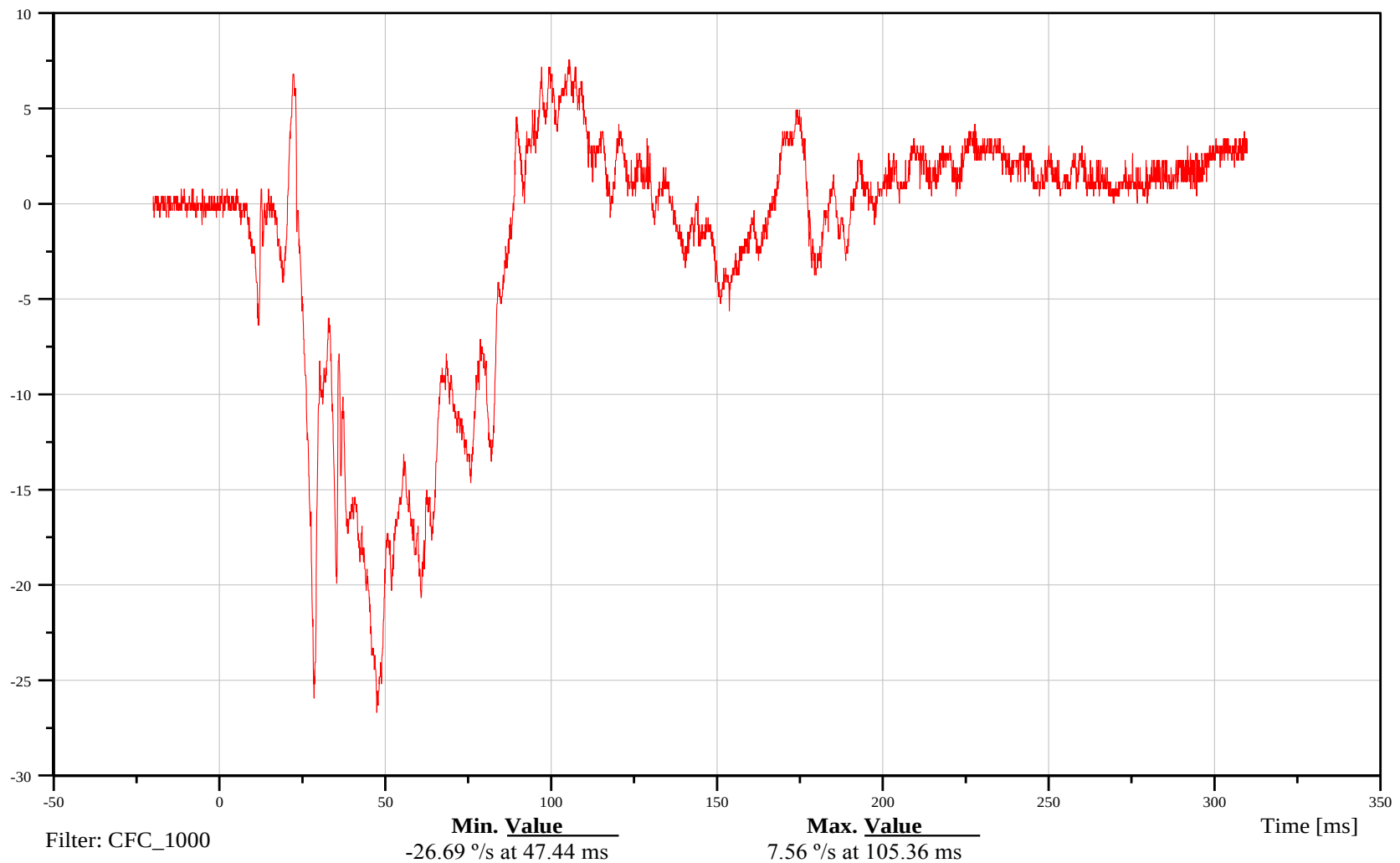
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Customer: VRTC
Test Number: 131114

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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

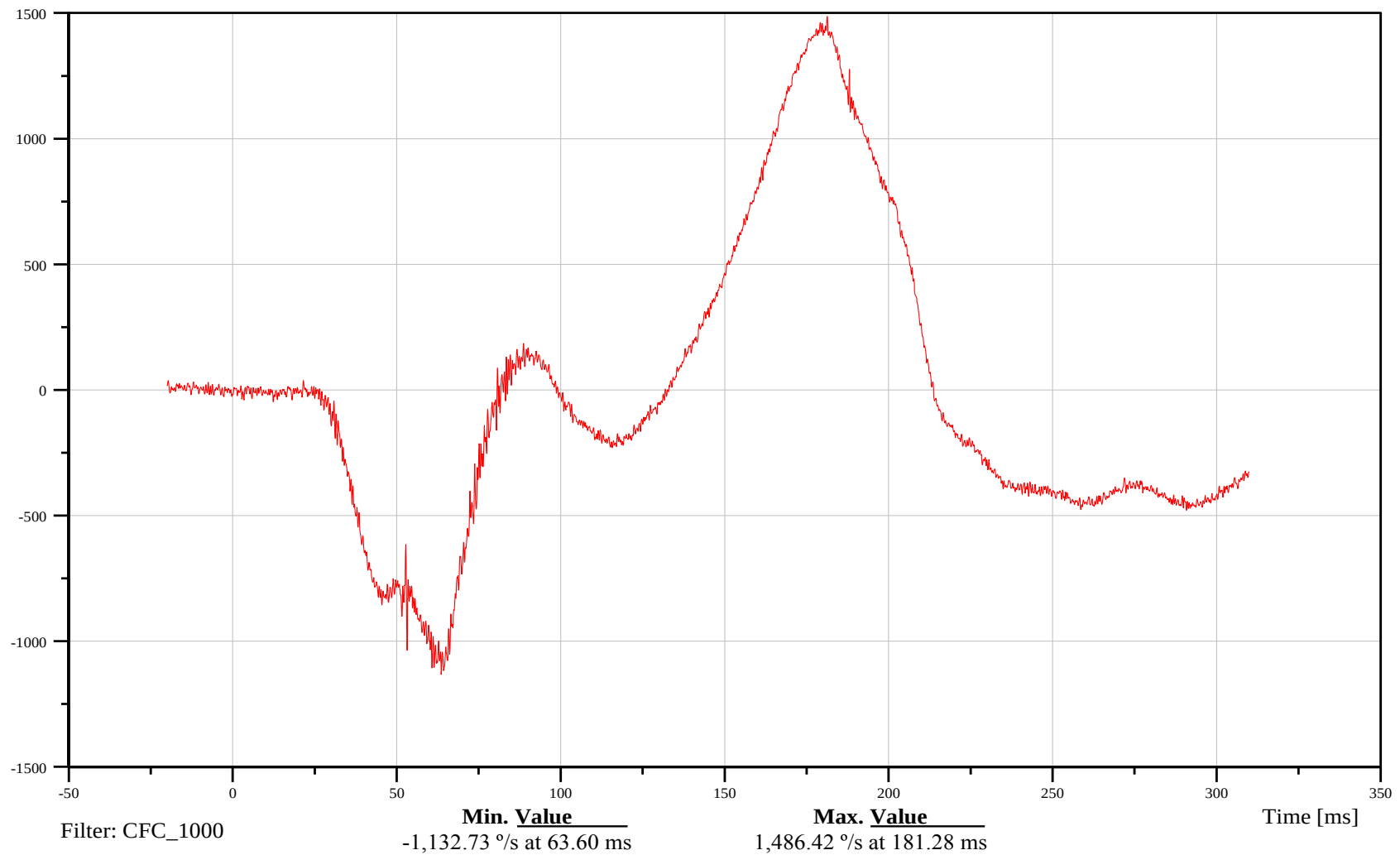
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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

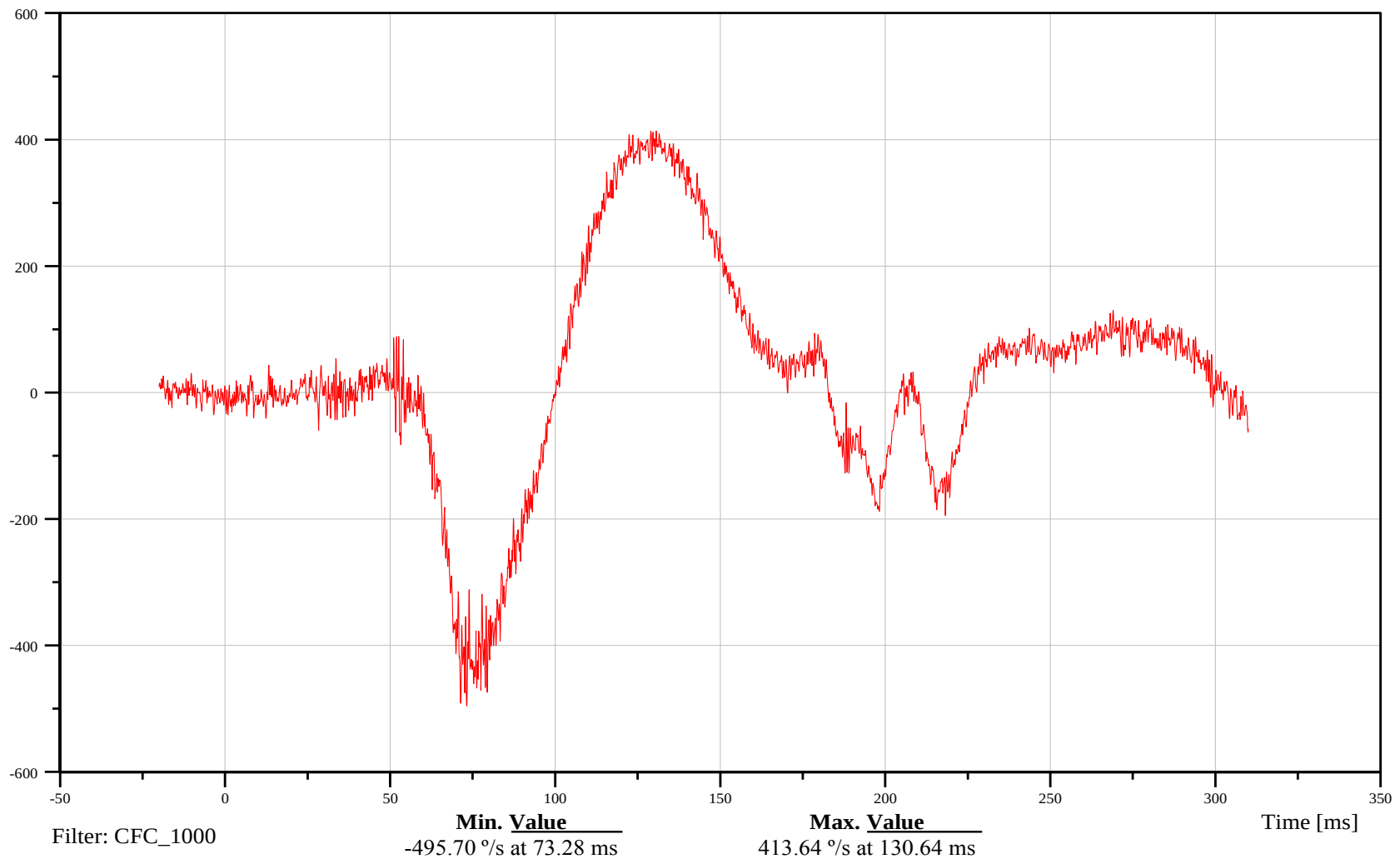
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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

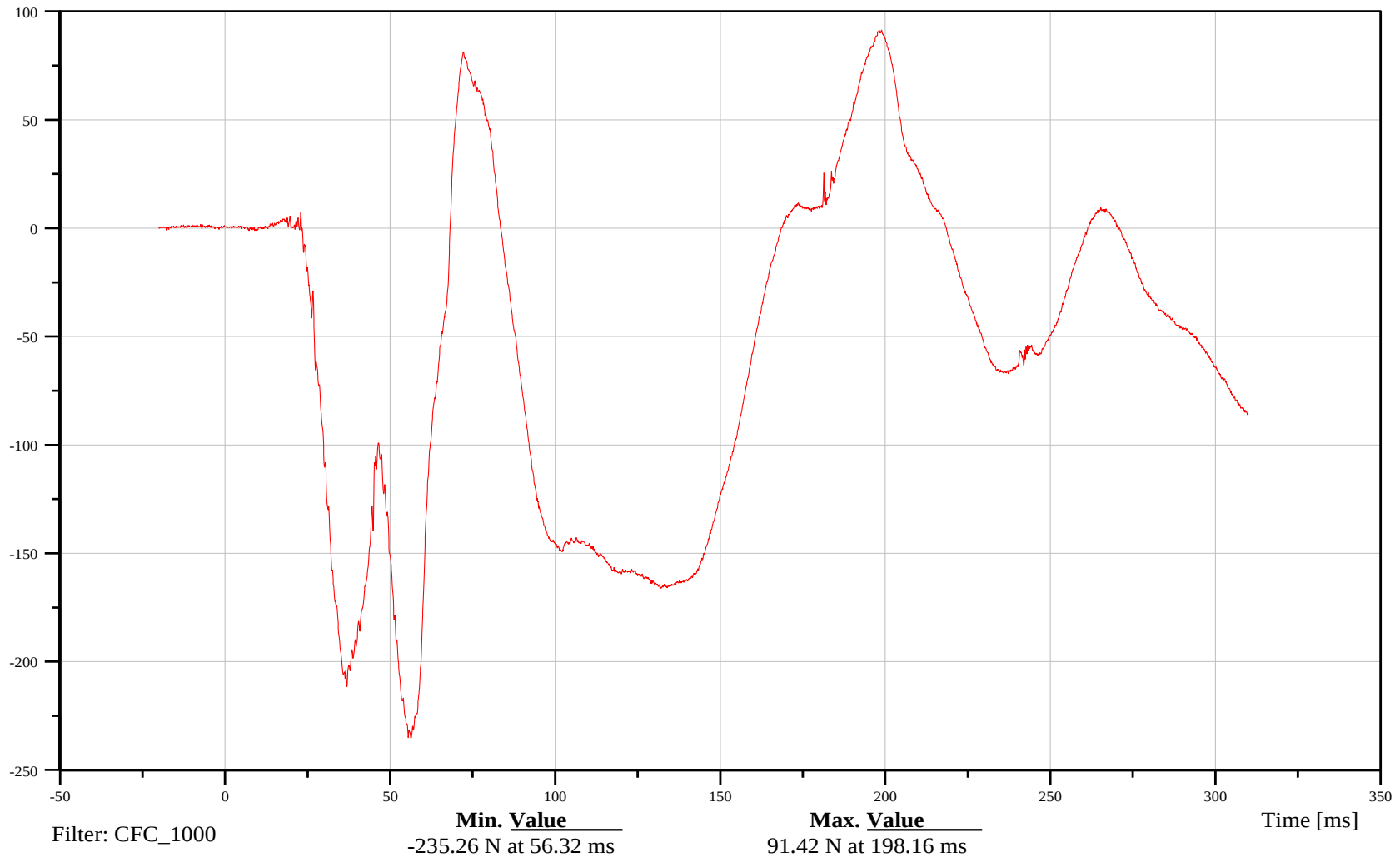
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Test Number: 131114

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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

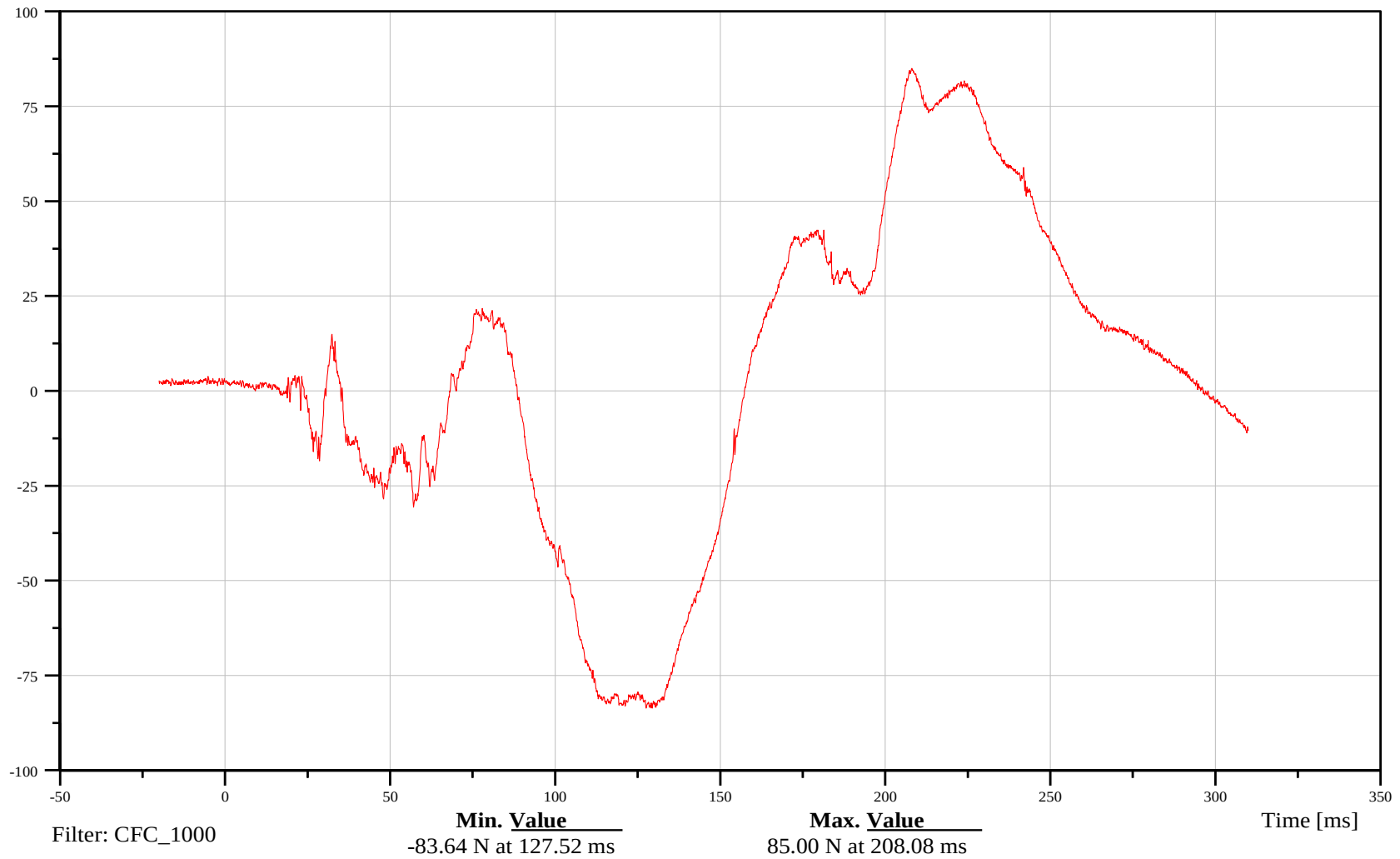
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Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

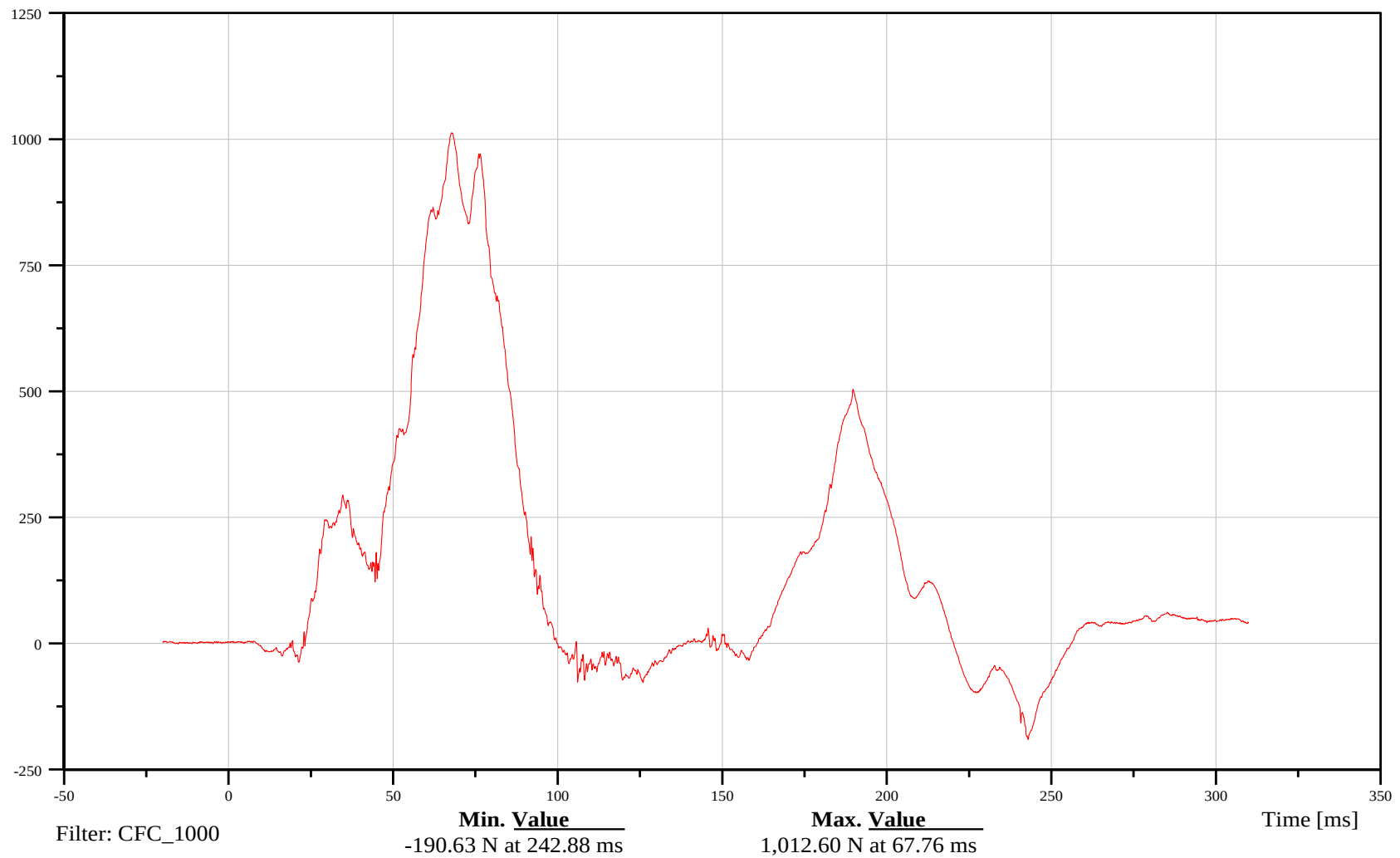
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Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

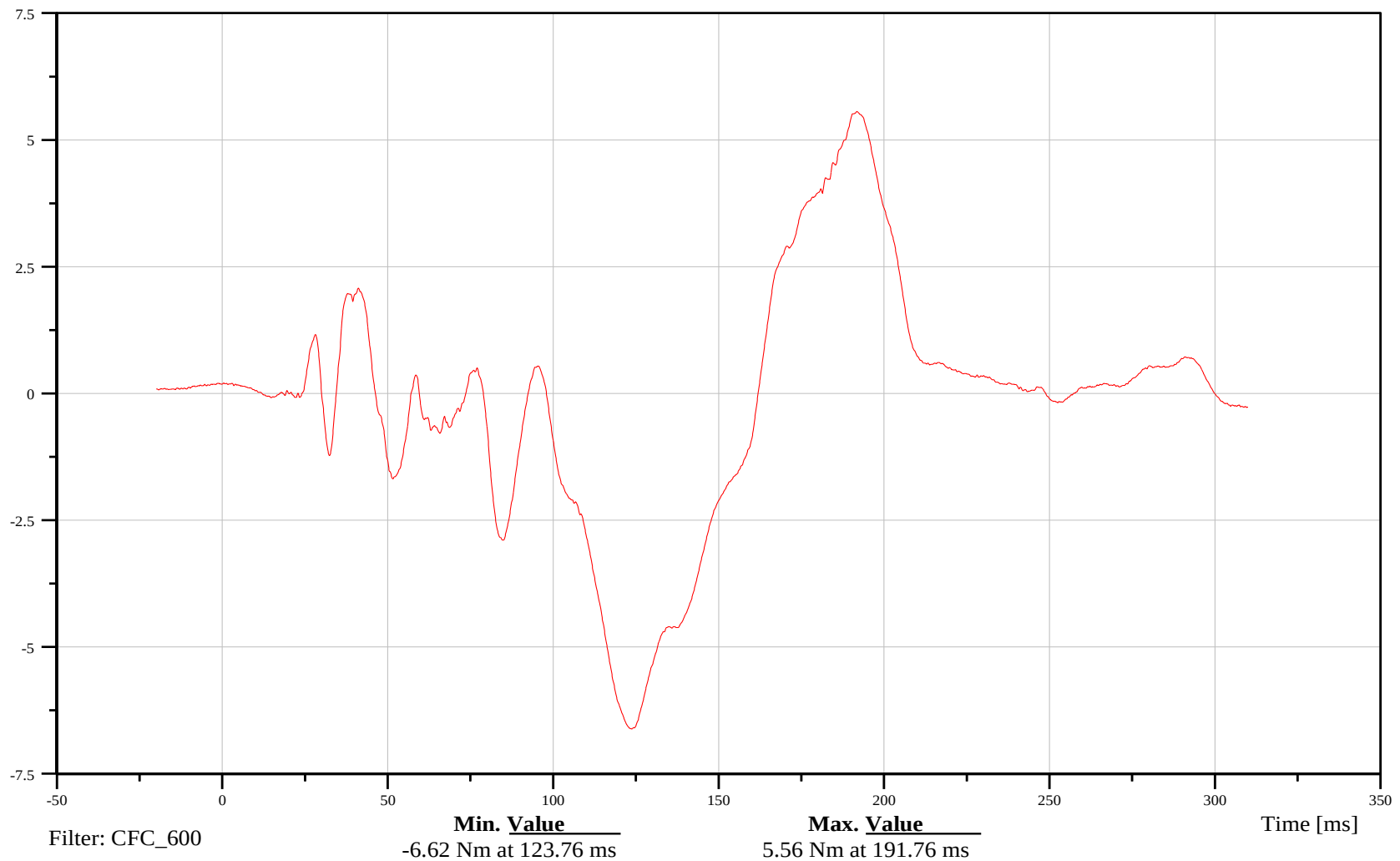
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Neck Moment X

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Test Number: 131114

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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

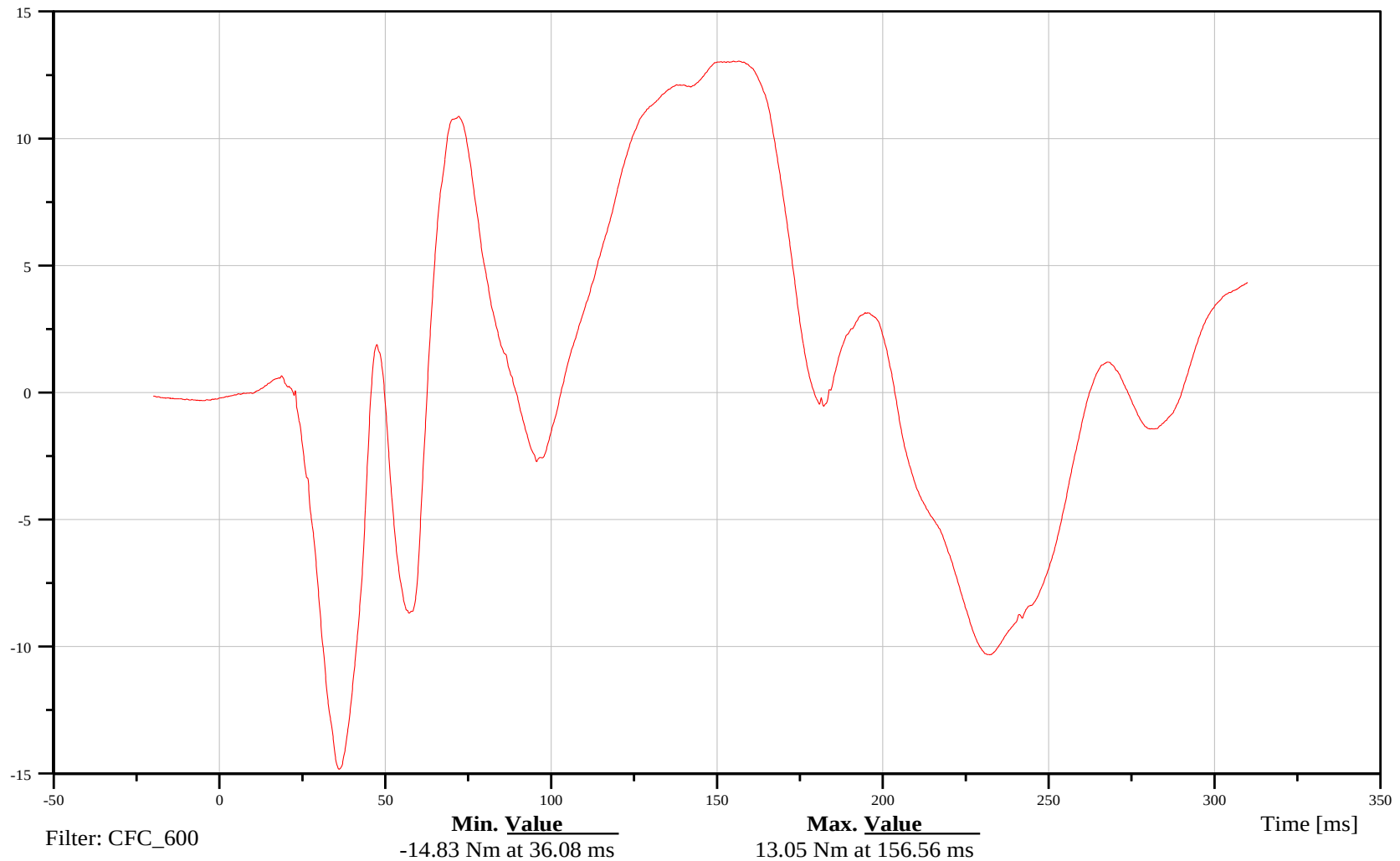
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Neck Moment Y

Customer: VRTC
Test Number: 131114

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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

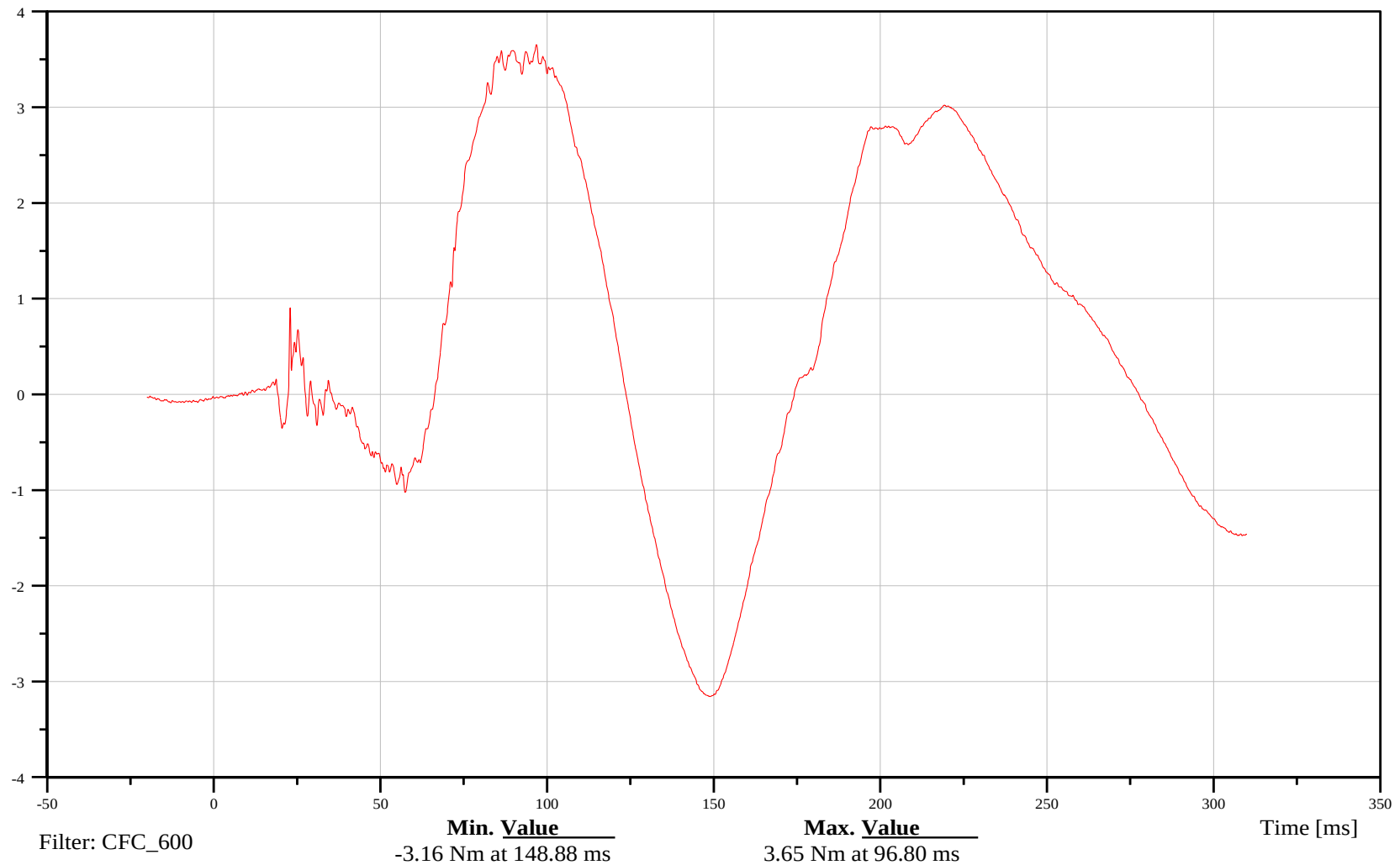
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Time: 15:28

Neck Moment Z

Customer: VRTC
Test Number: 131114

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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

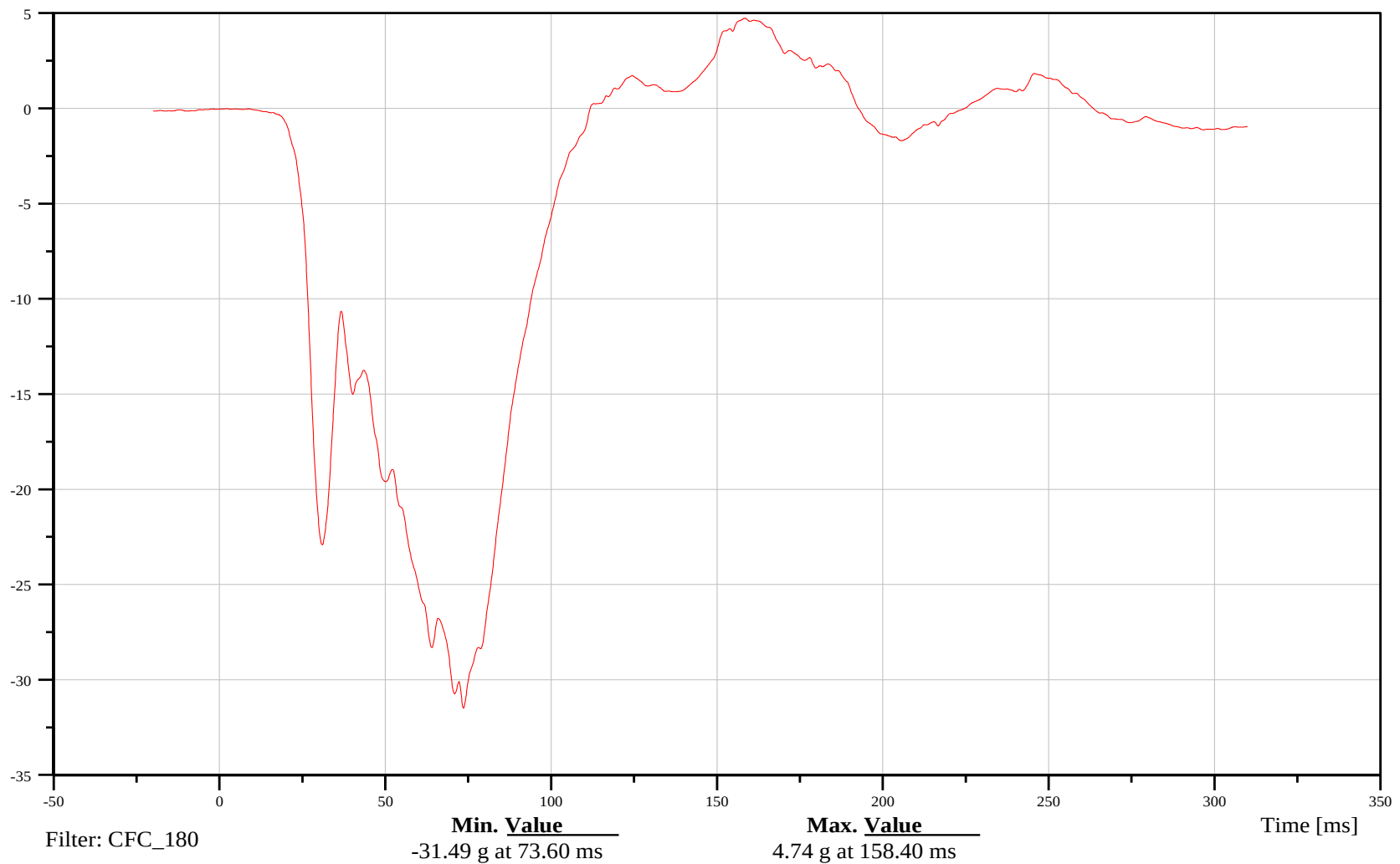
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Chest Accel X

Customer: VRTC
Test Number: 131114

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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

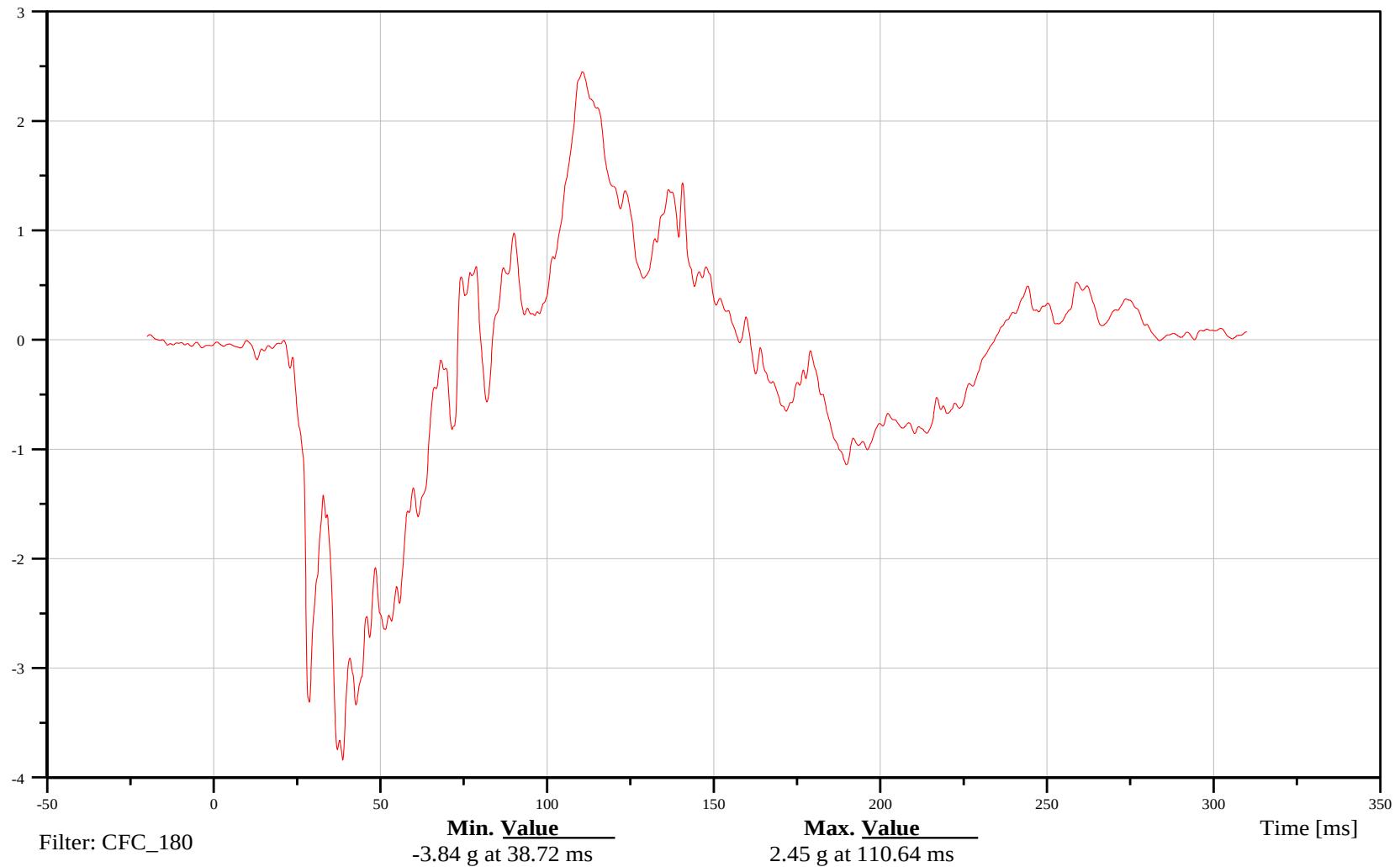
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Test Number: 131114

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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

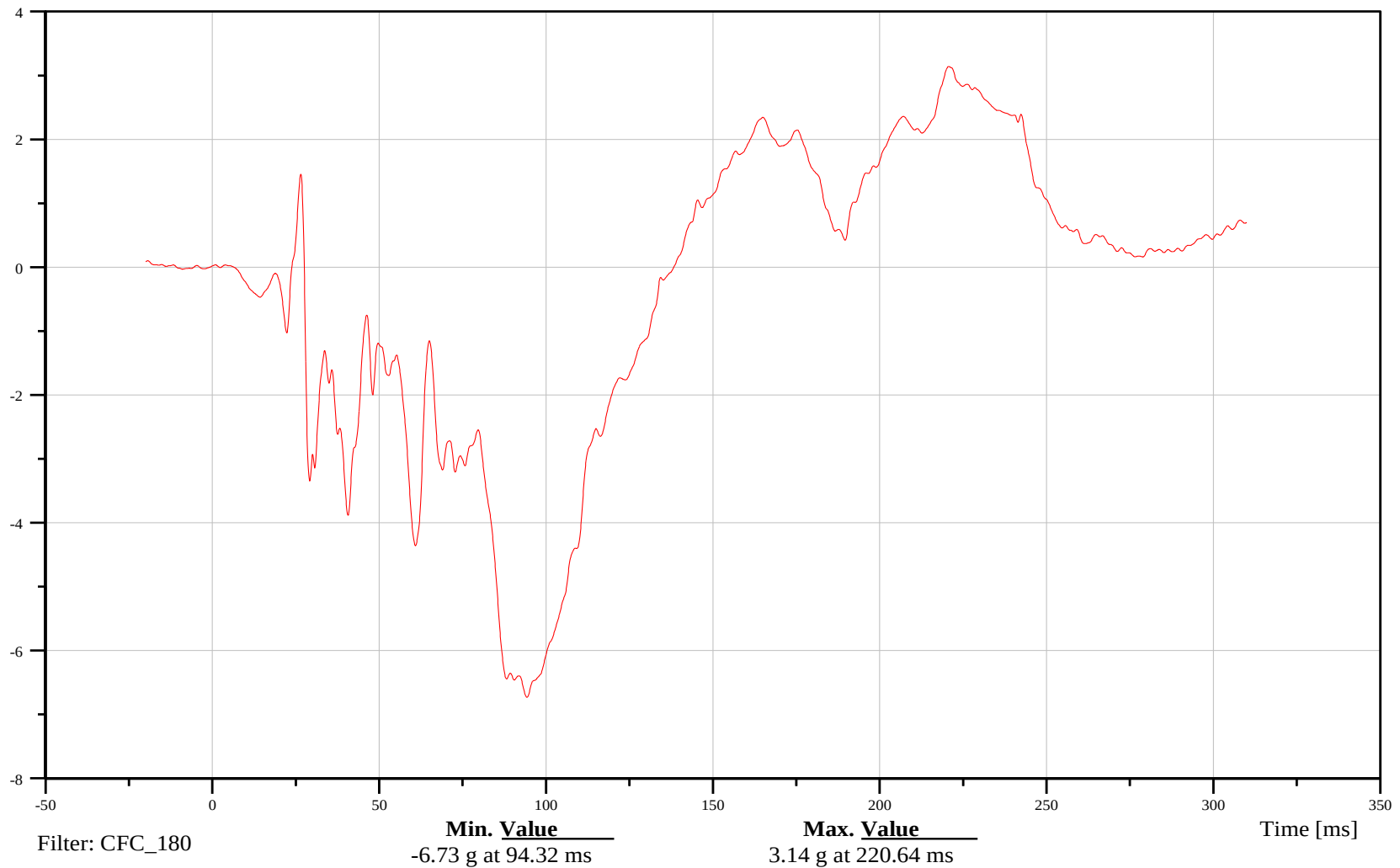
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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

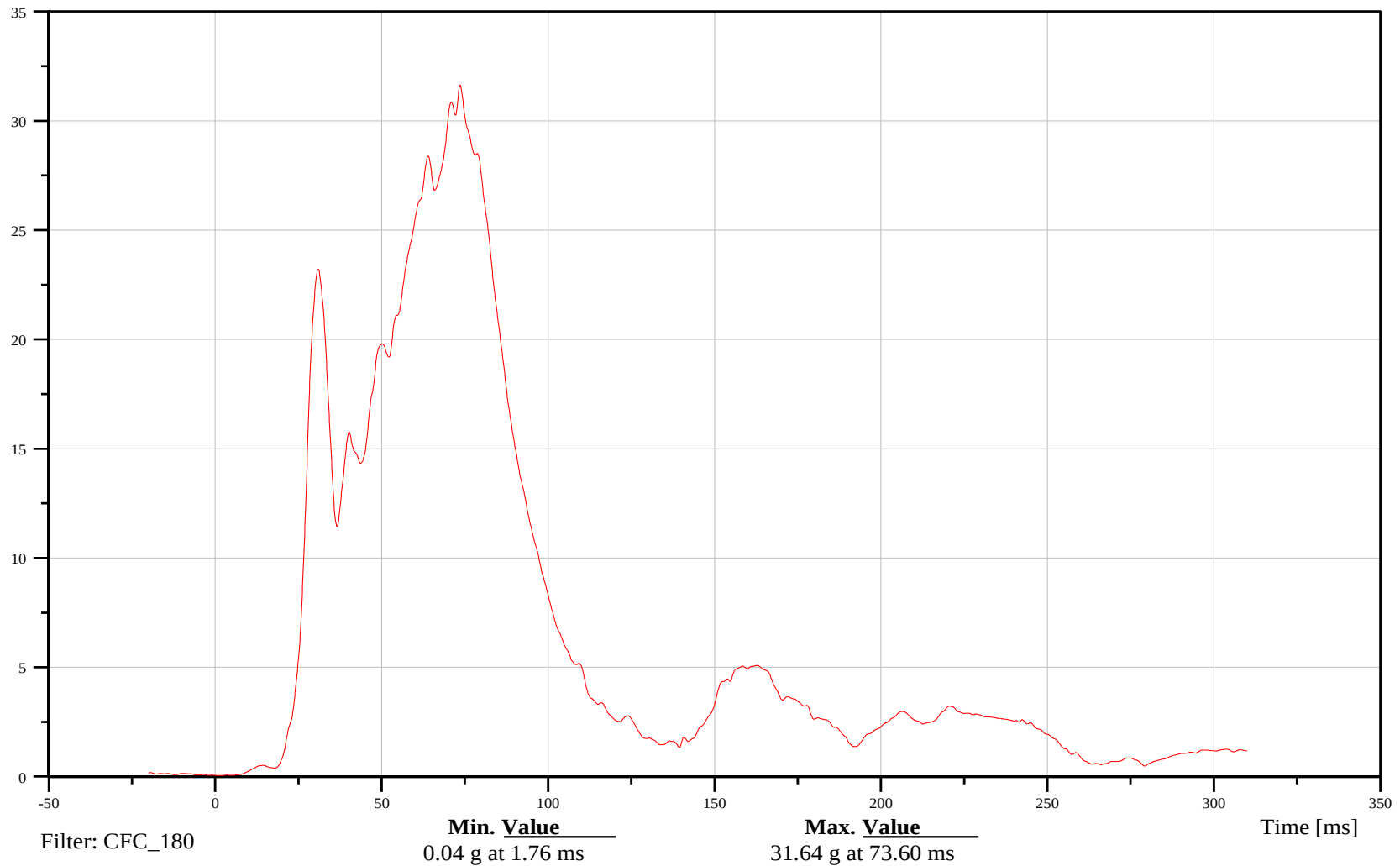
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Time: 15:28

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Test Number: 131114

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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

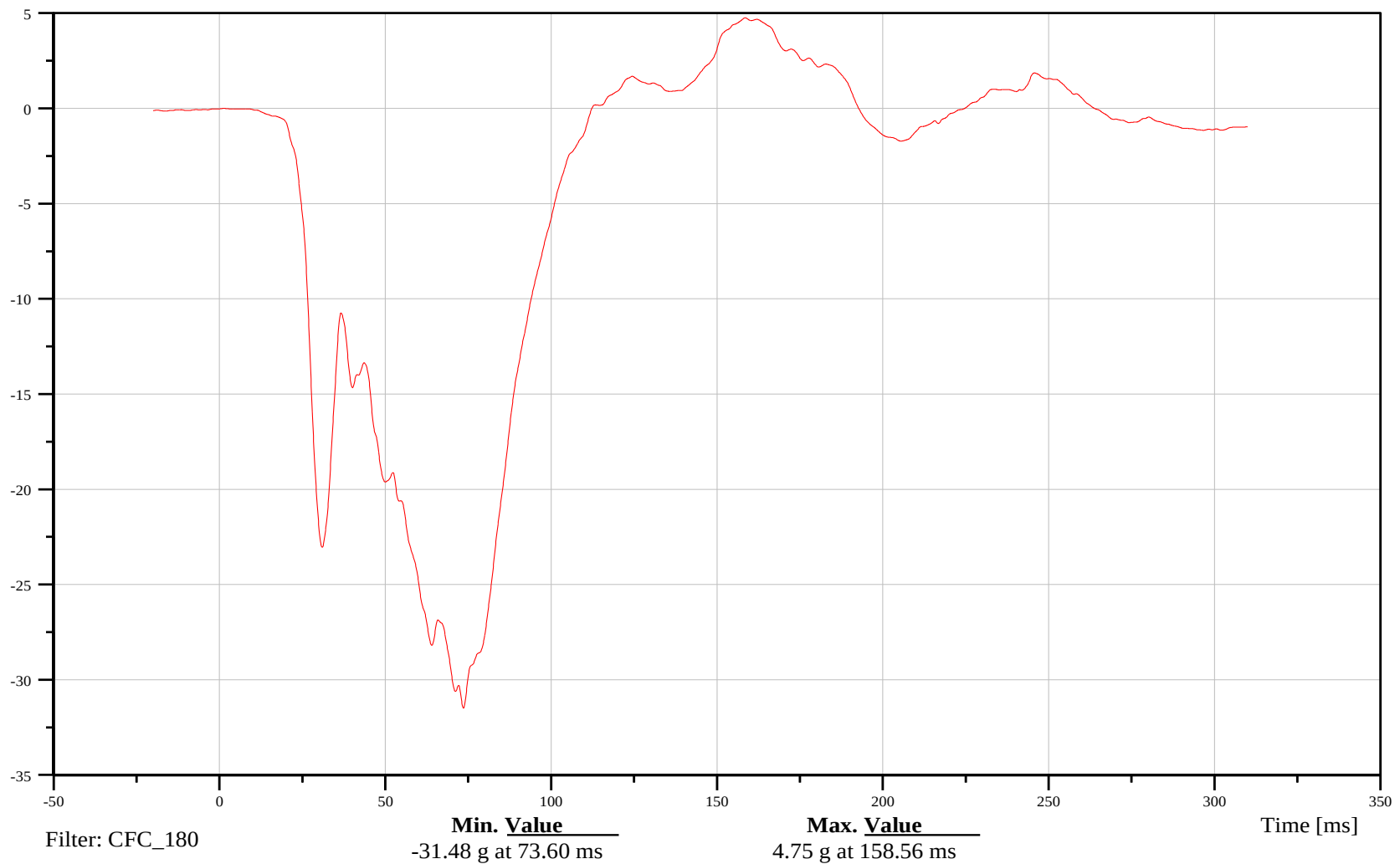
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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

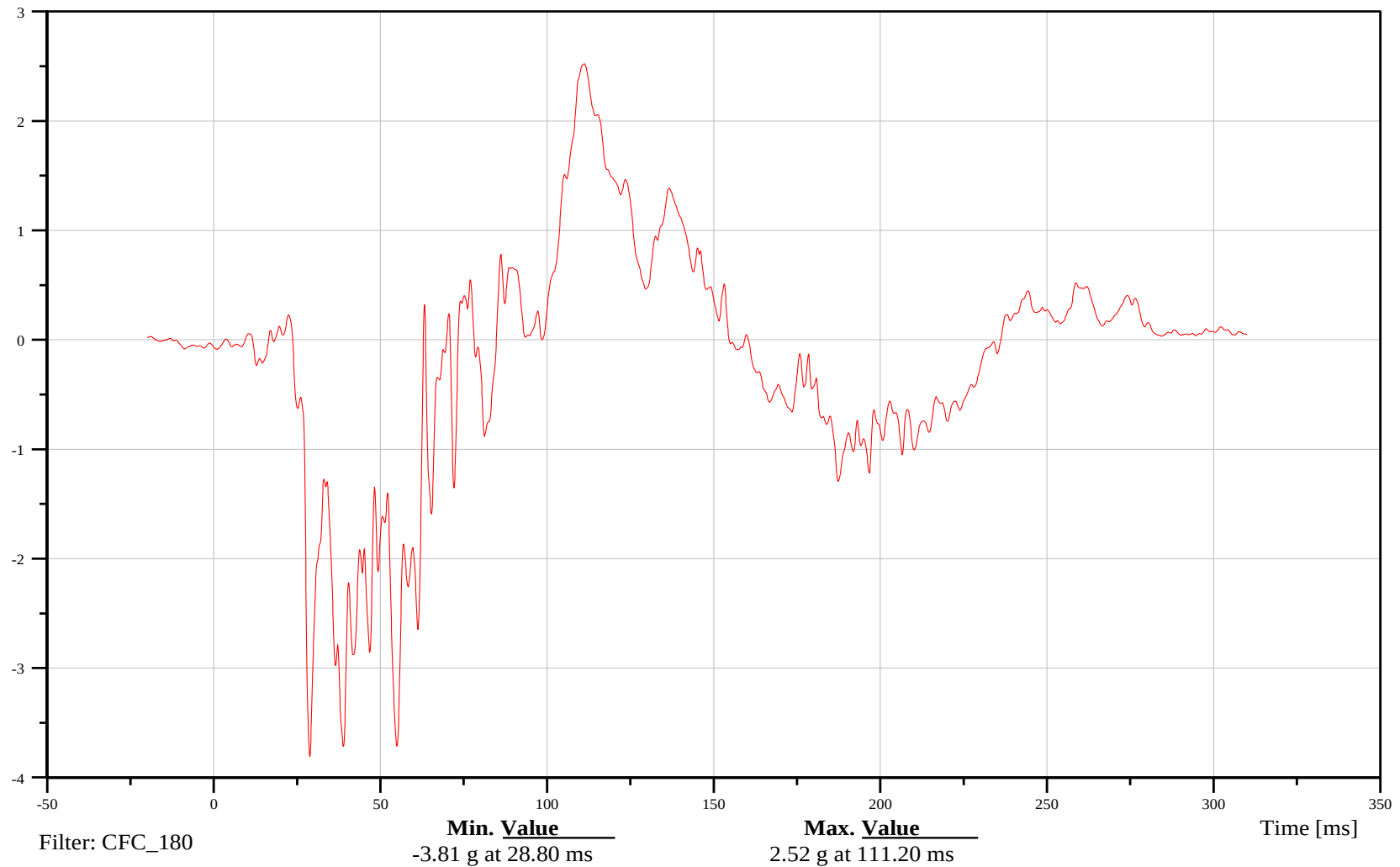
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Test Number: 131114

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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

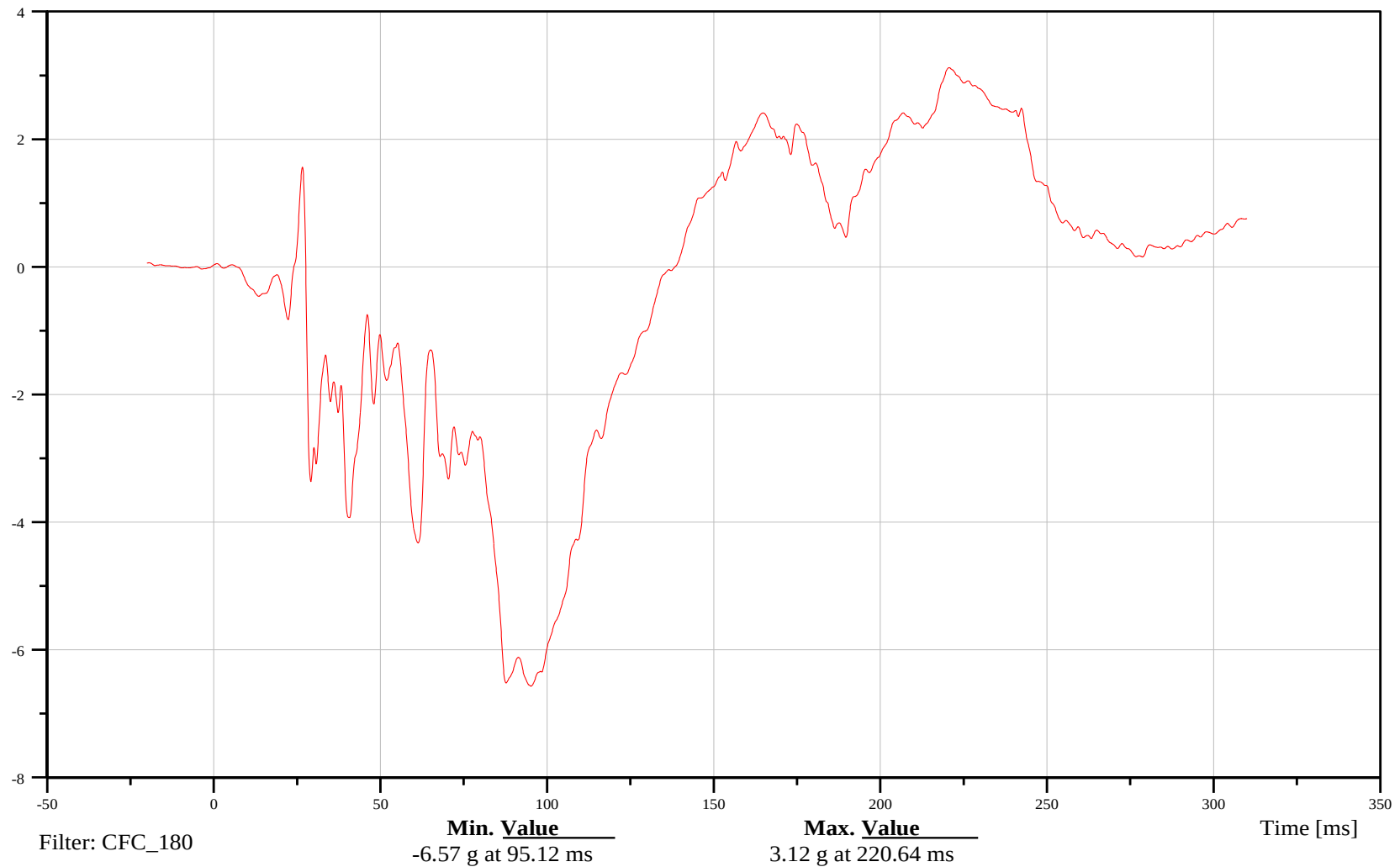
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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

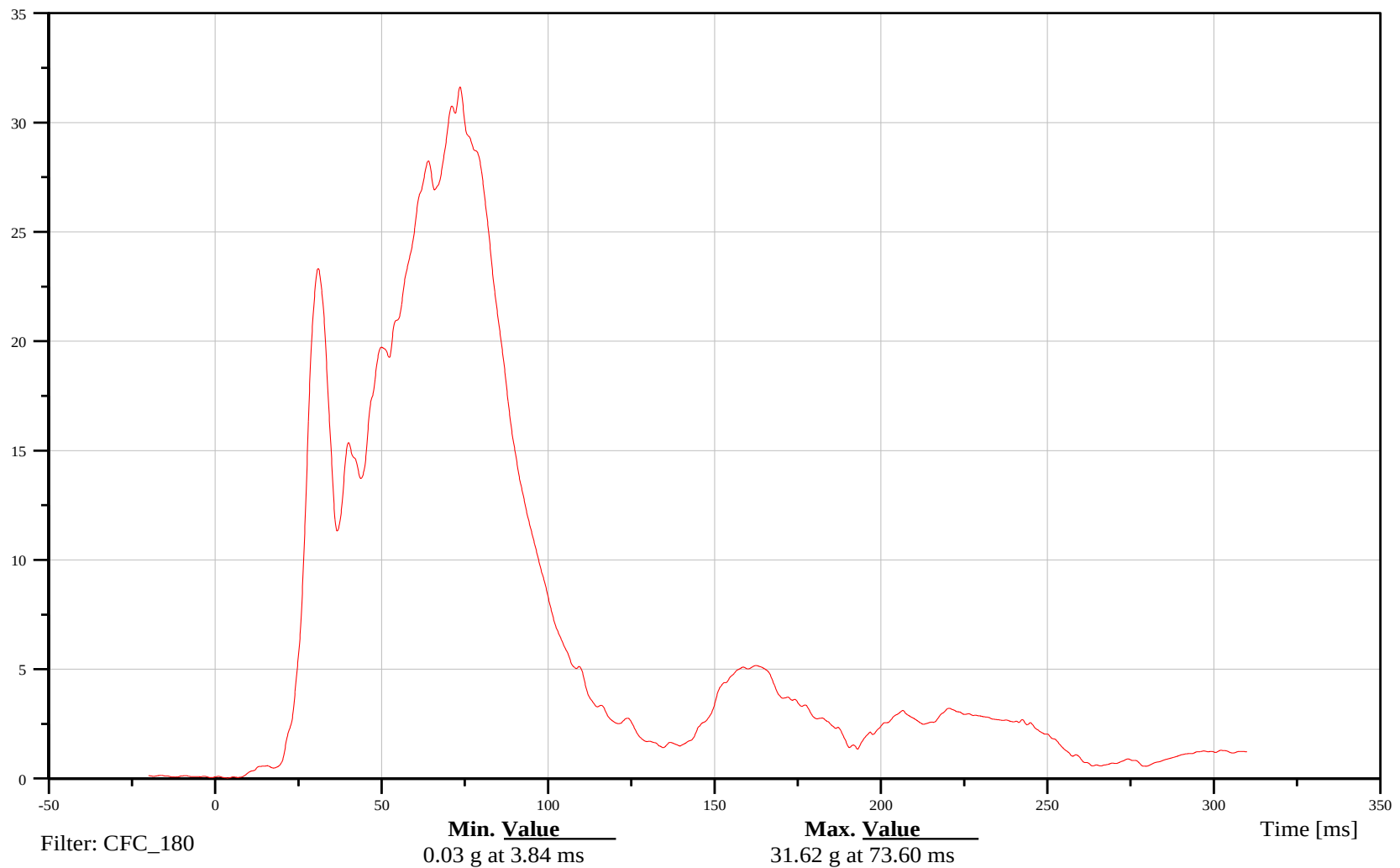
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Chest Red. Accel. Resultant

Customer: VRTC
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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

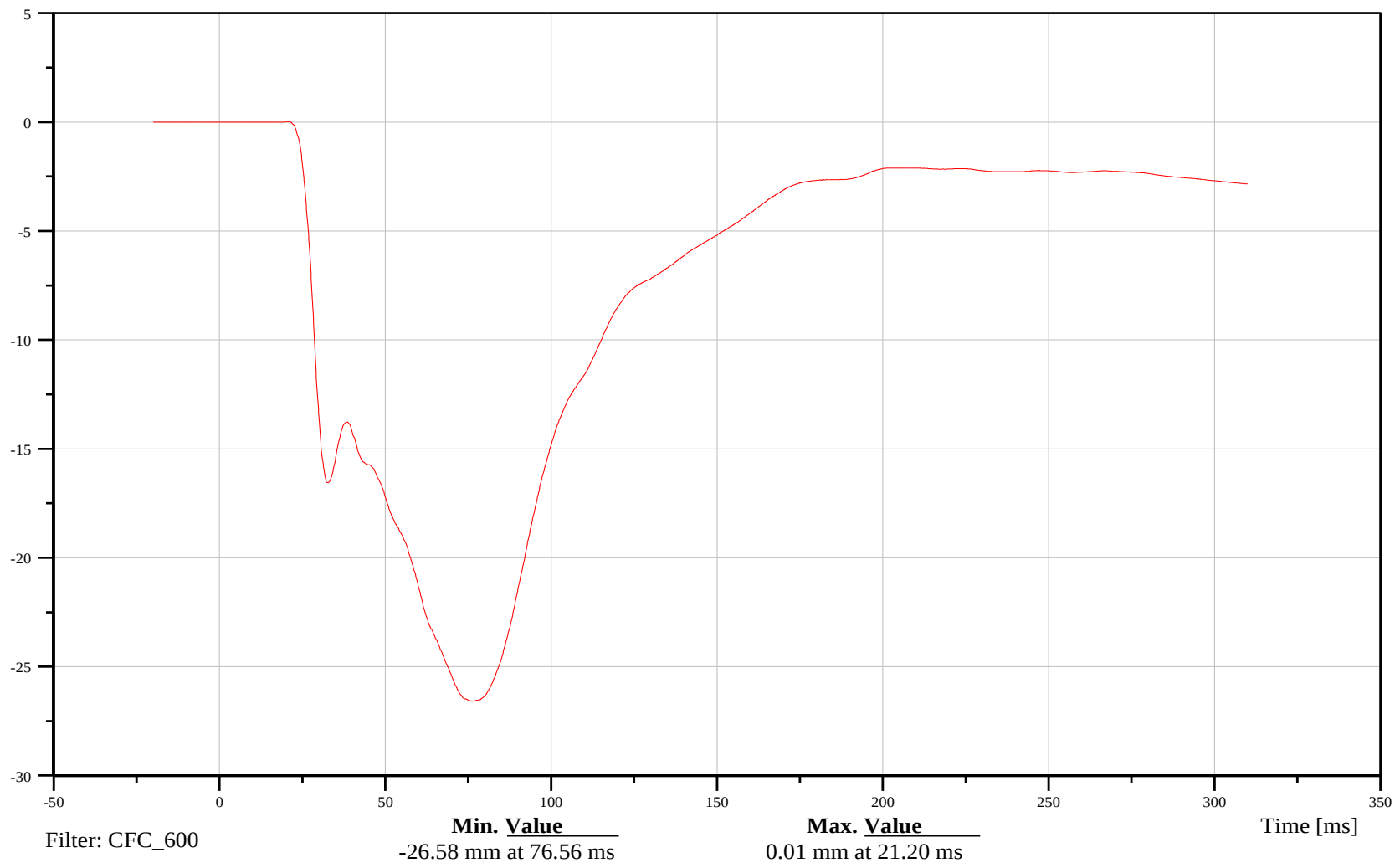
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Customer: VRTC
Test Number: 131114

11CHST0000HFDSXB

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

Date: 11/14/2013

Time: 15:28

Pelvis Accel X

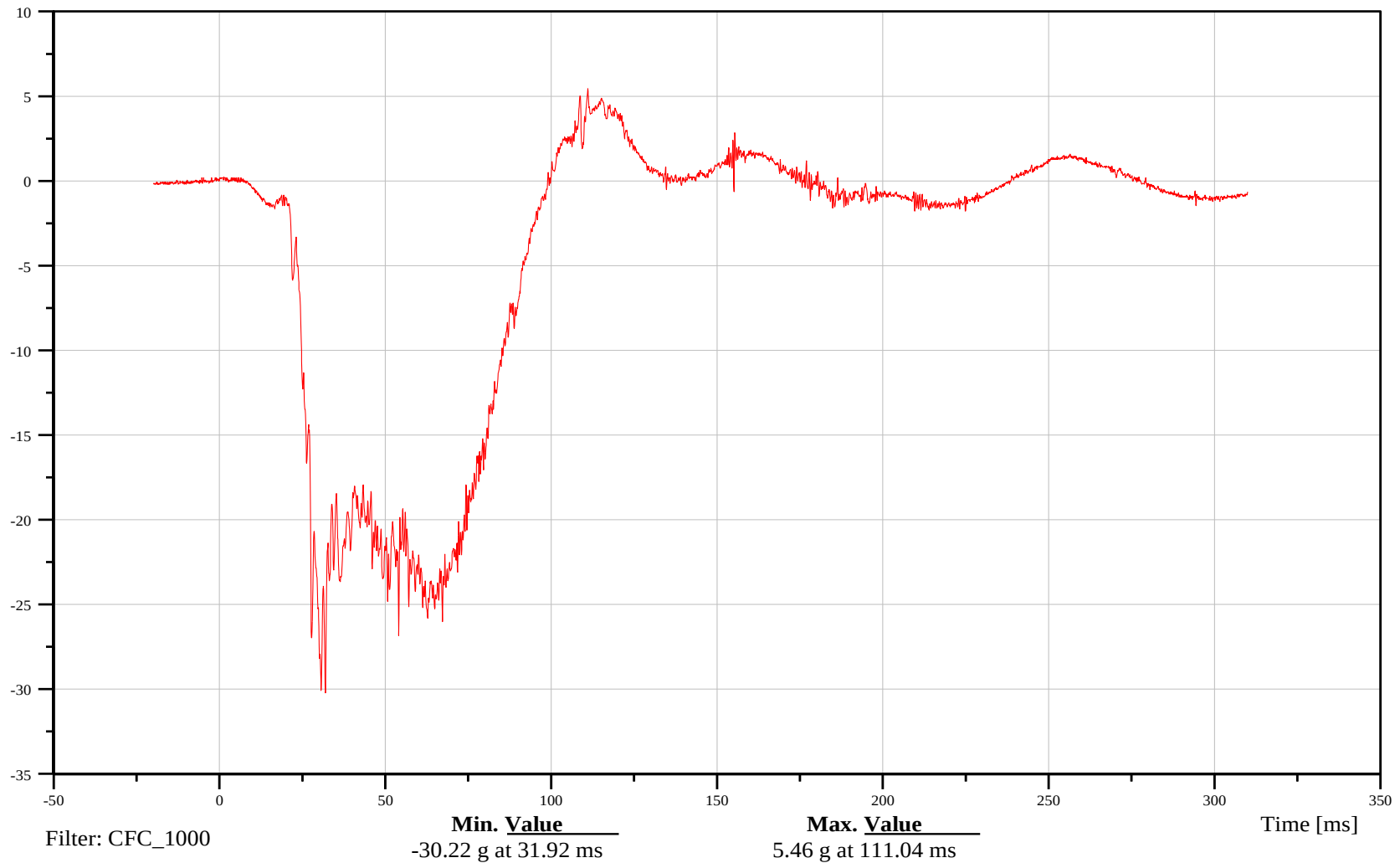
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Test Number: 131114

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TRC Inc. Test Lab: CTF

Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

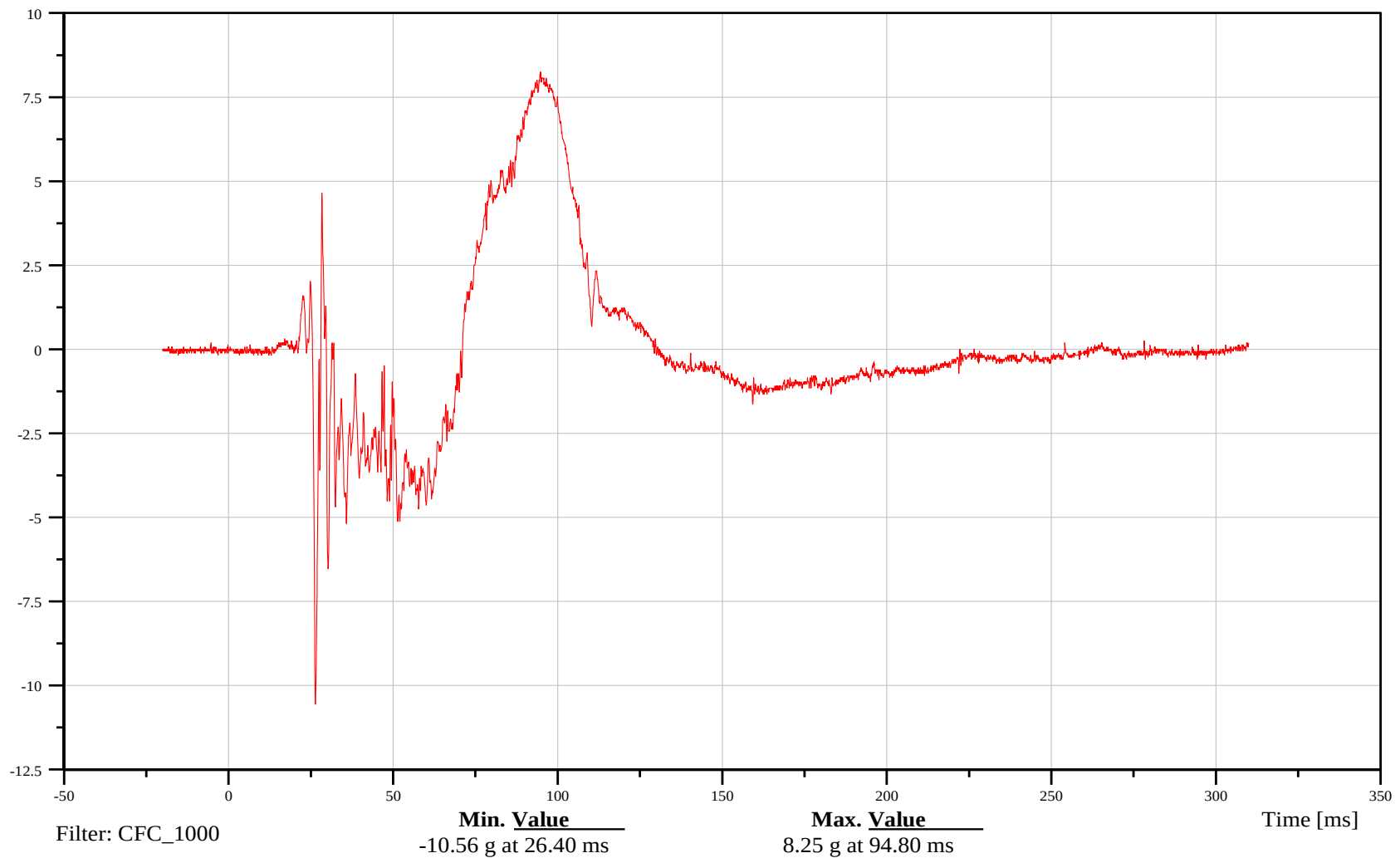
Pelvis Accel Y

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Customer: VRTC
Test Number: 131114

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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

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Pelvis Accel Z

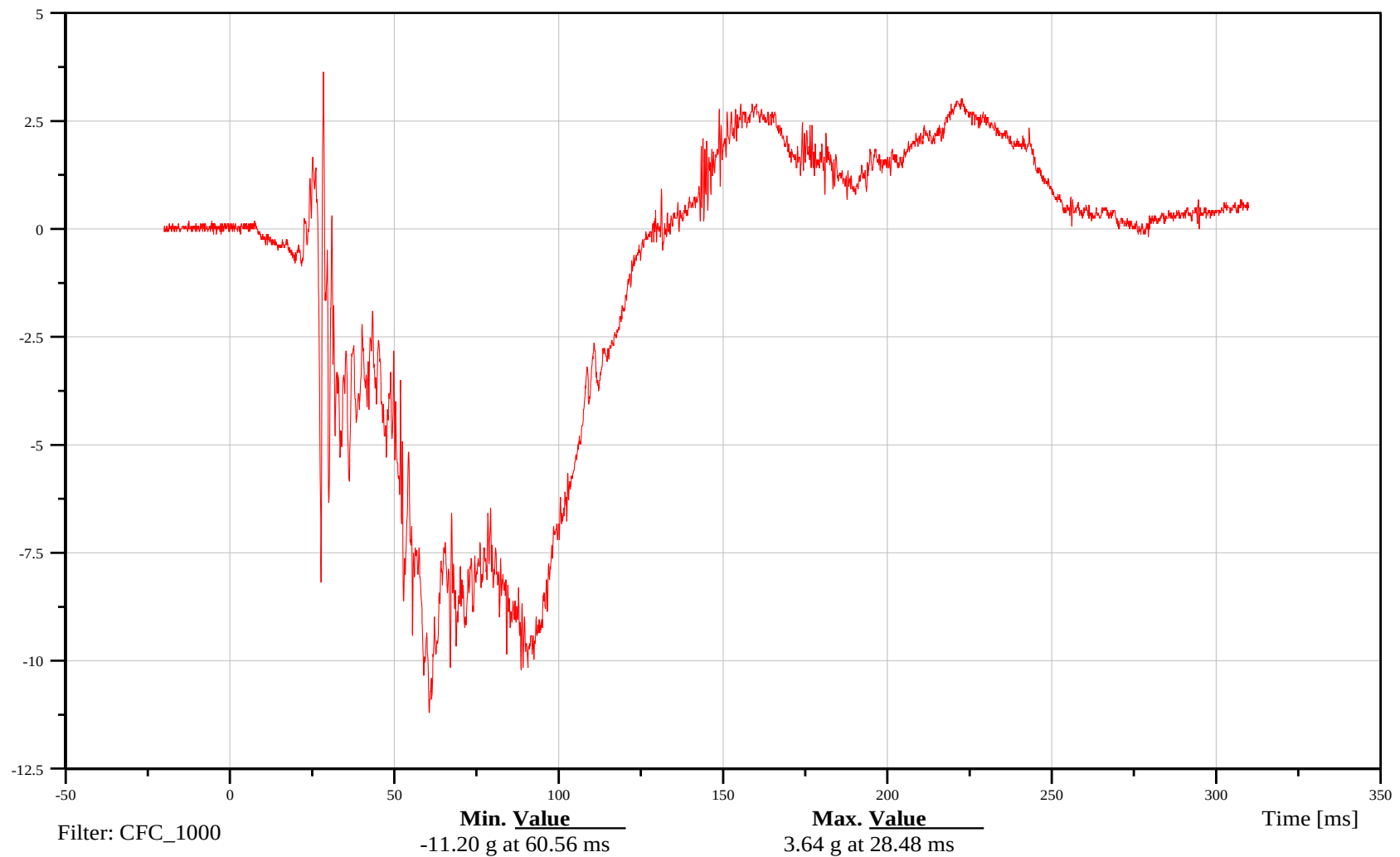
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TRC Inc. Test Lab: CTF

Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

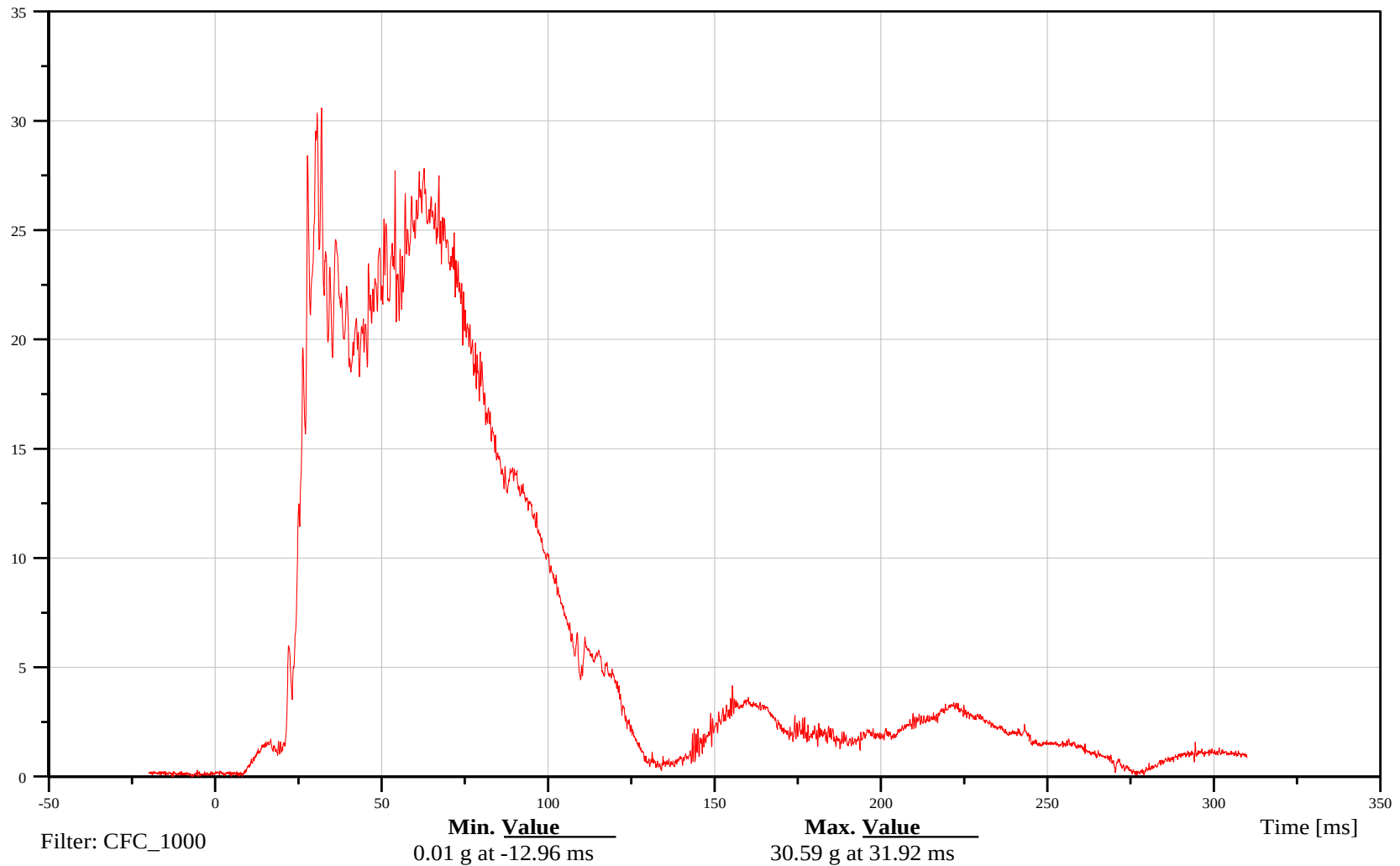
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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

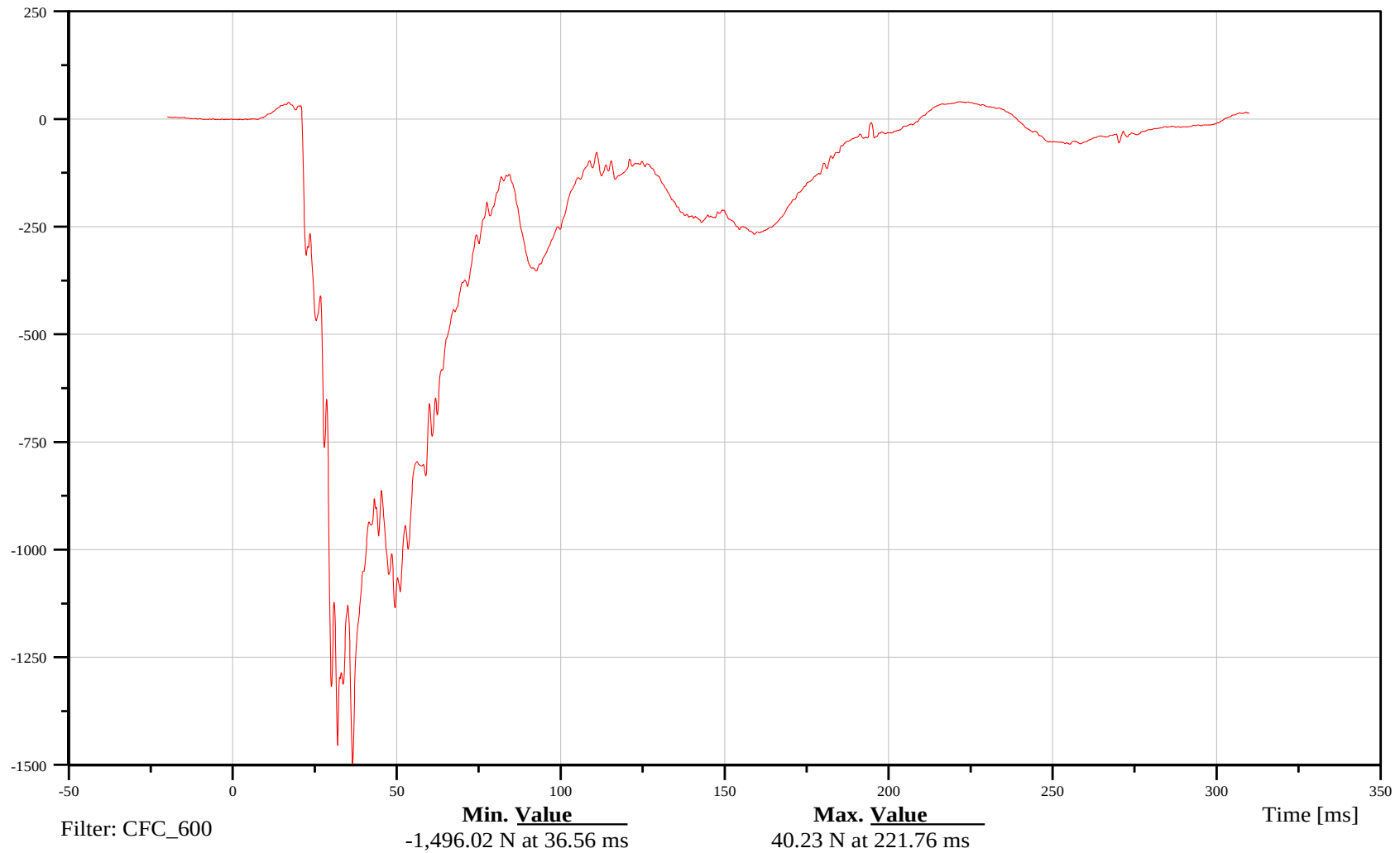
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Left Femur Force Z

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Test Number: 131114

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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

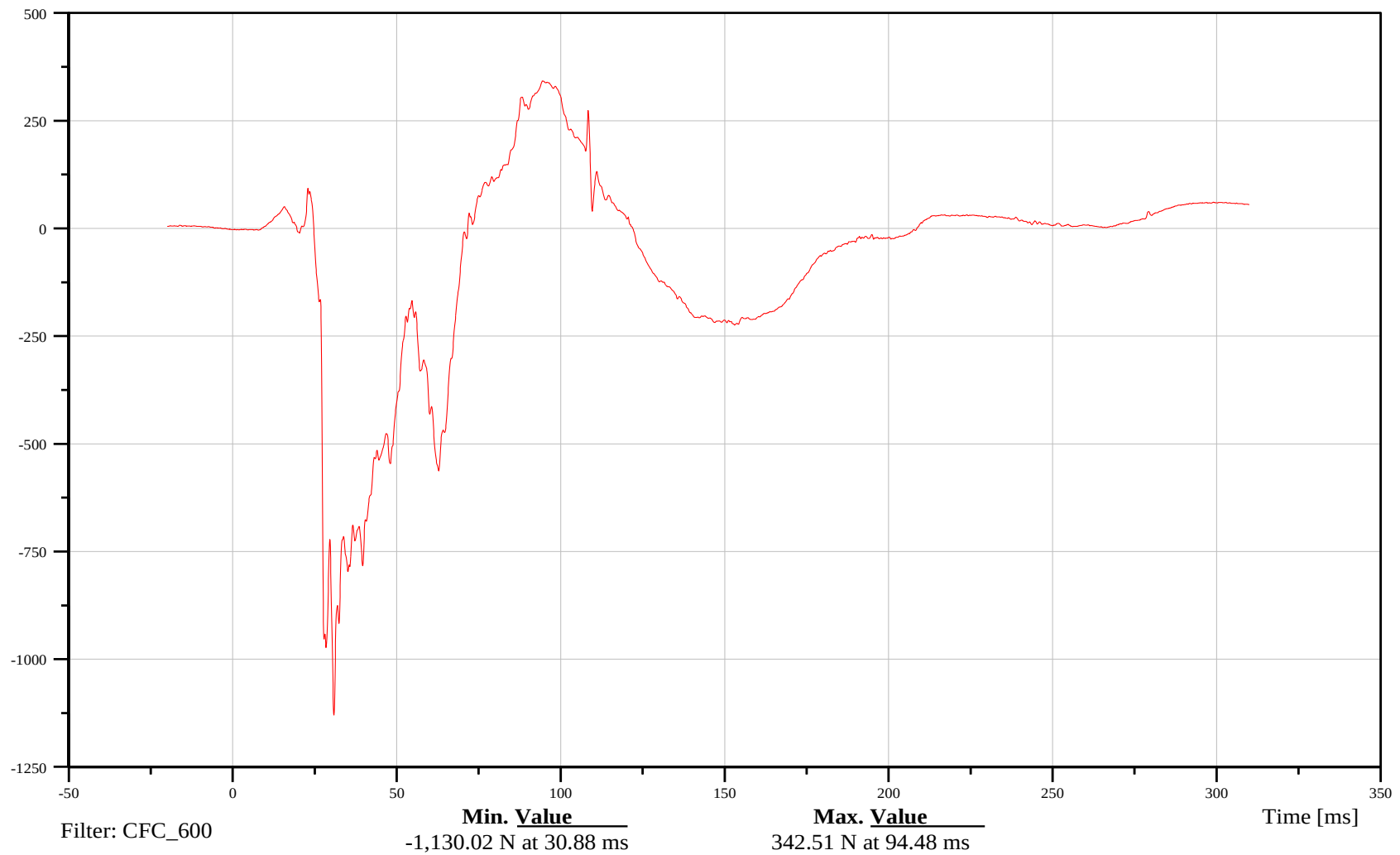
Date: 11/14/2013
Time: 15:28

Right Femur Force Z

Customer: VRTC
Test Number: 131114

11FEMRRU00HFFOZB

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

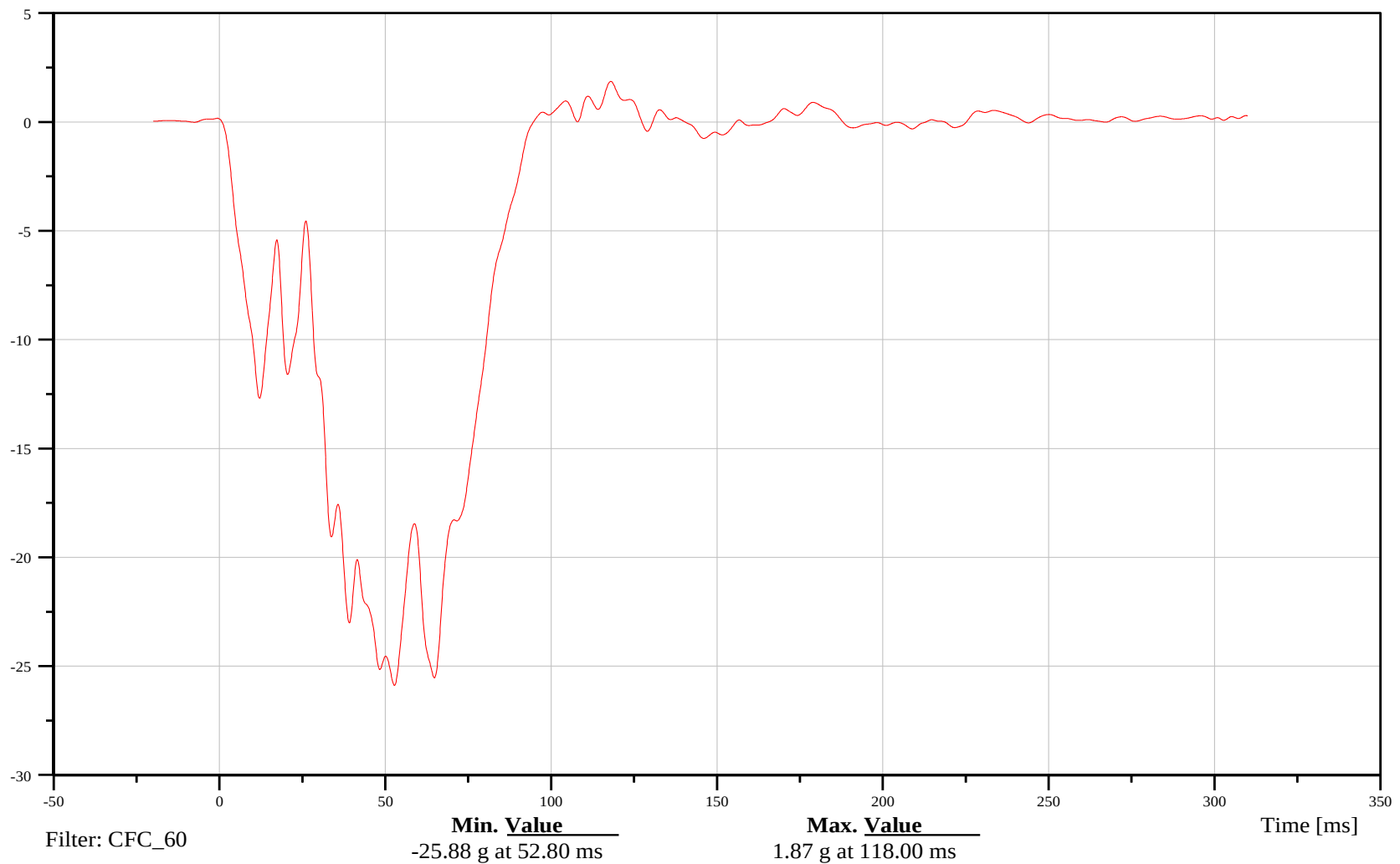
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Left Rear Seat Crossmember/Sill X

Customer: VRTC
Test Number: 131114

10SILBLERE00ACXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

Date: 11/14/2013

Time: 15:28

Right Rear Seat Crossmember/Sill X

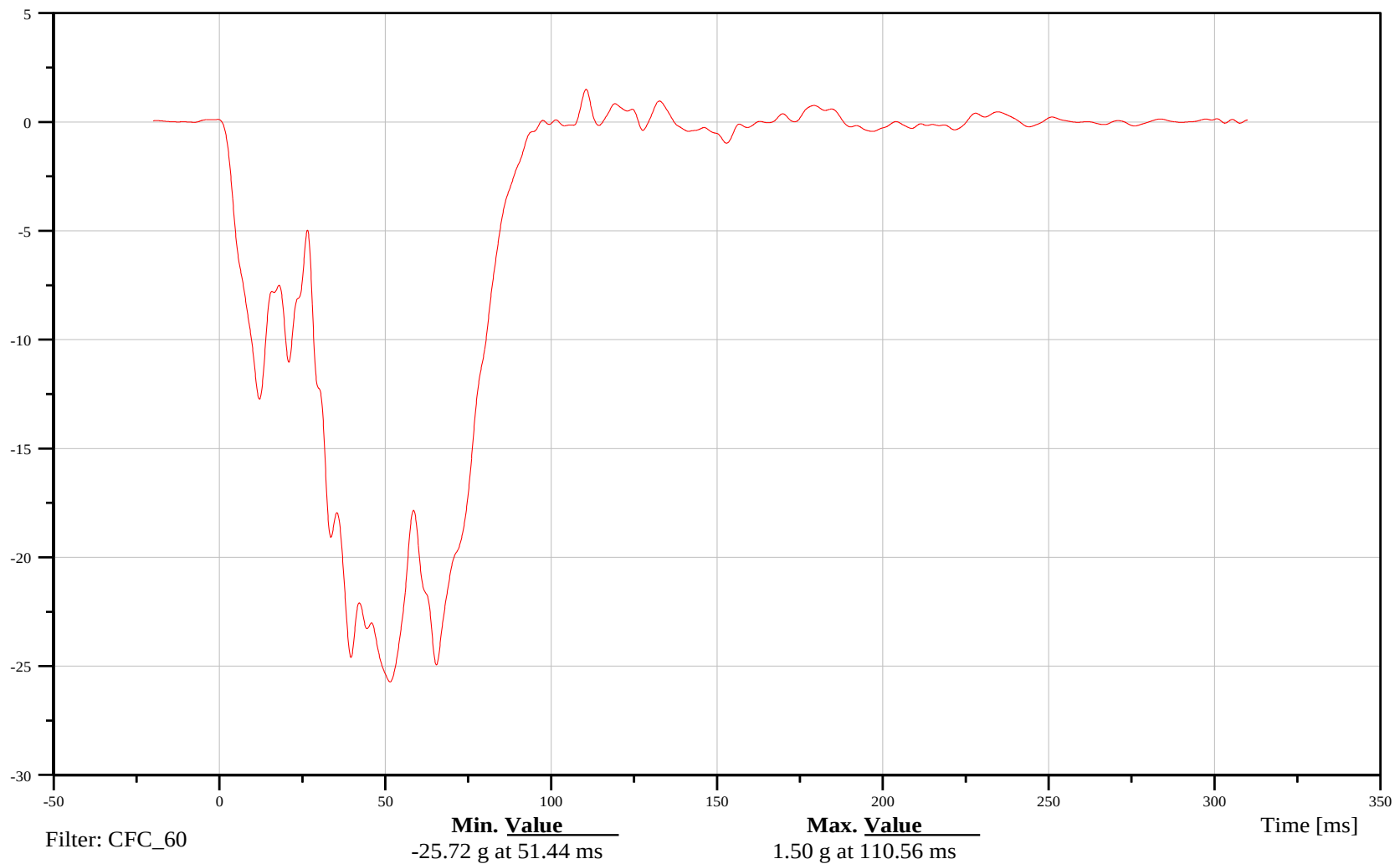
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TRC Inc. Test Lab: CTF

Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

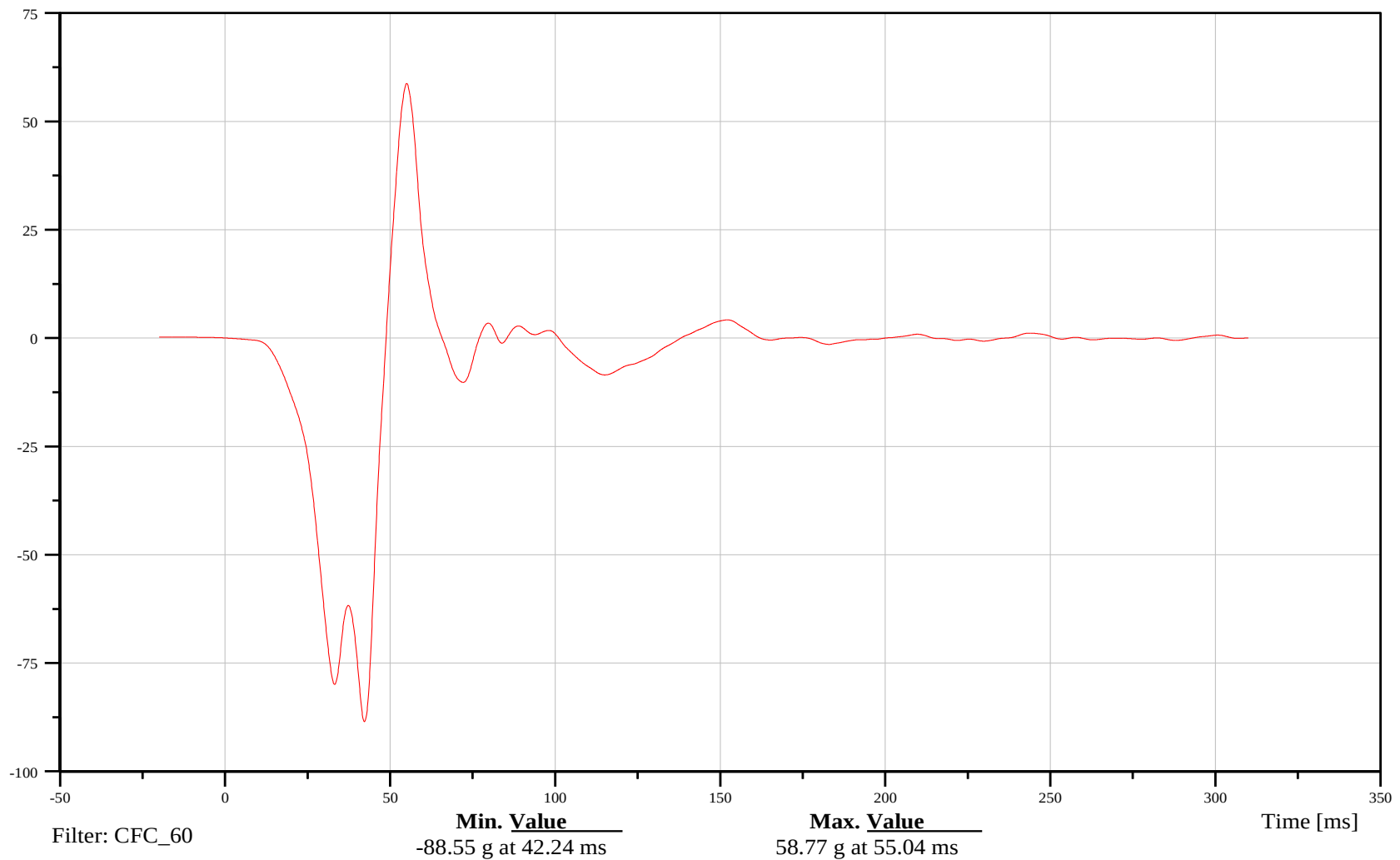
Top of Engine X

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

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TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

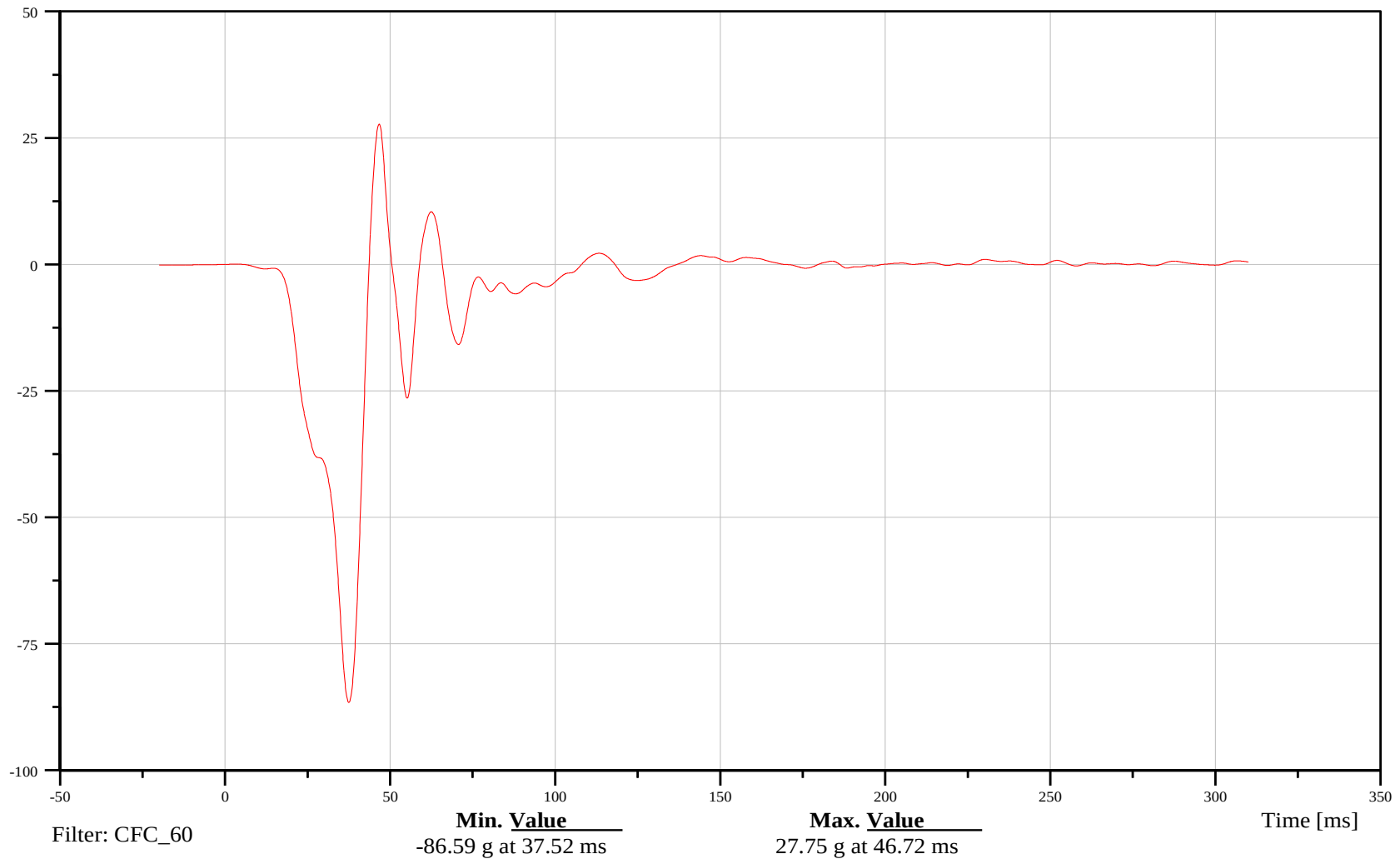
Date: 11/14/2013
Time: 15:28

Bottom of Engine X

Customer: VRTC
Test Number: 131114

11ENG NBO0000ACXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

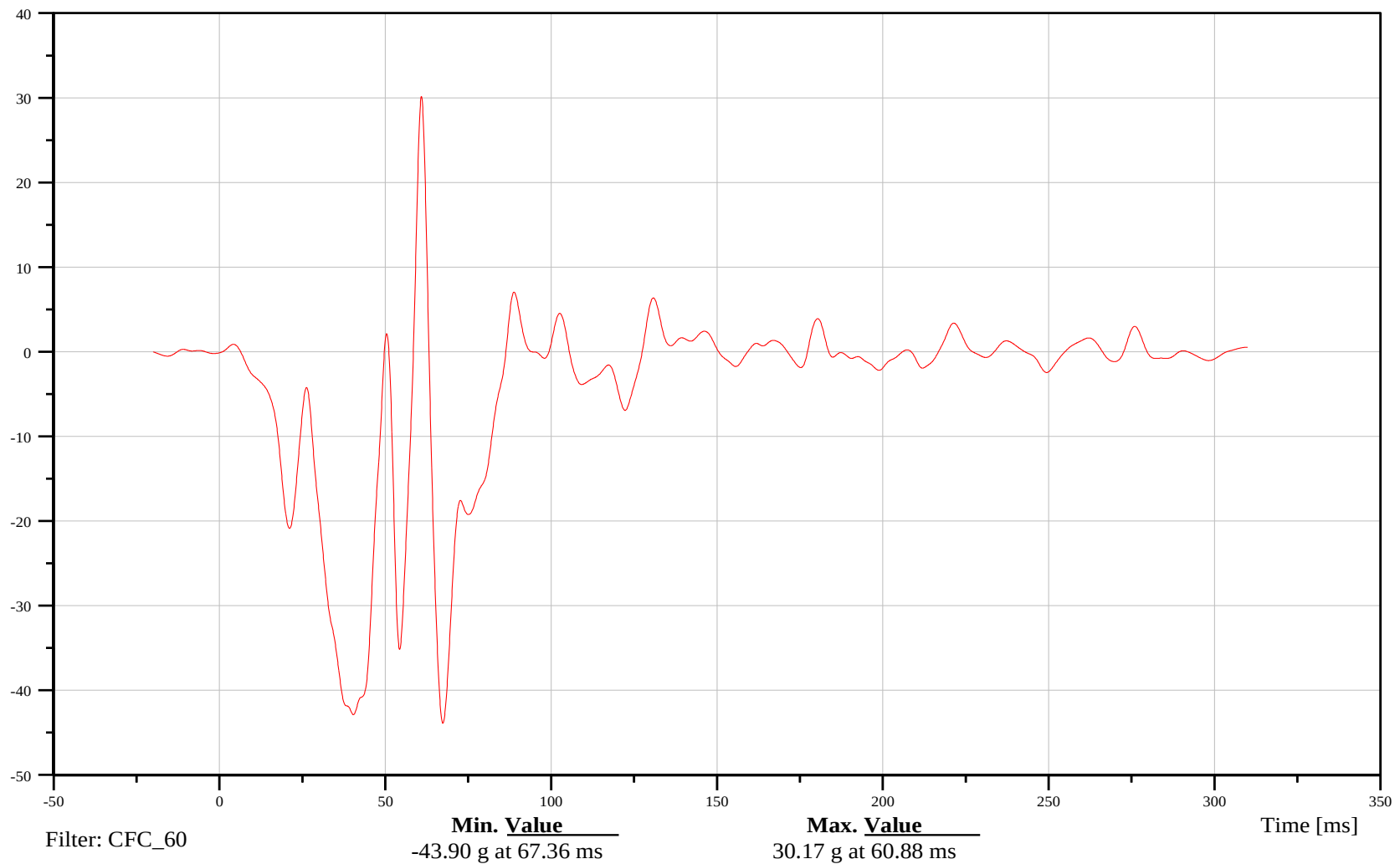
Left Brake Front Caliper X

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

111CLPLE0000ACXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

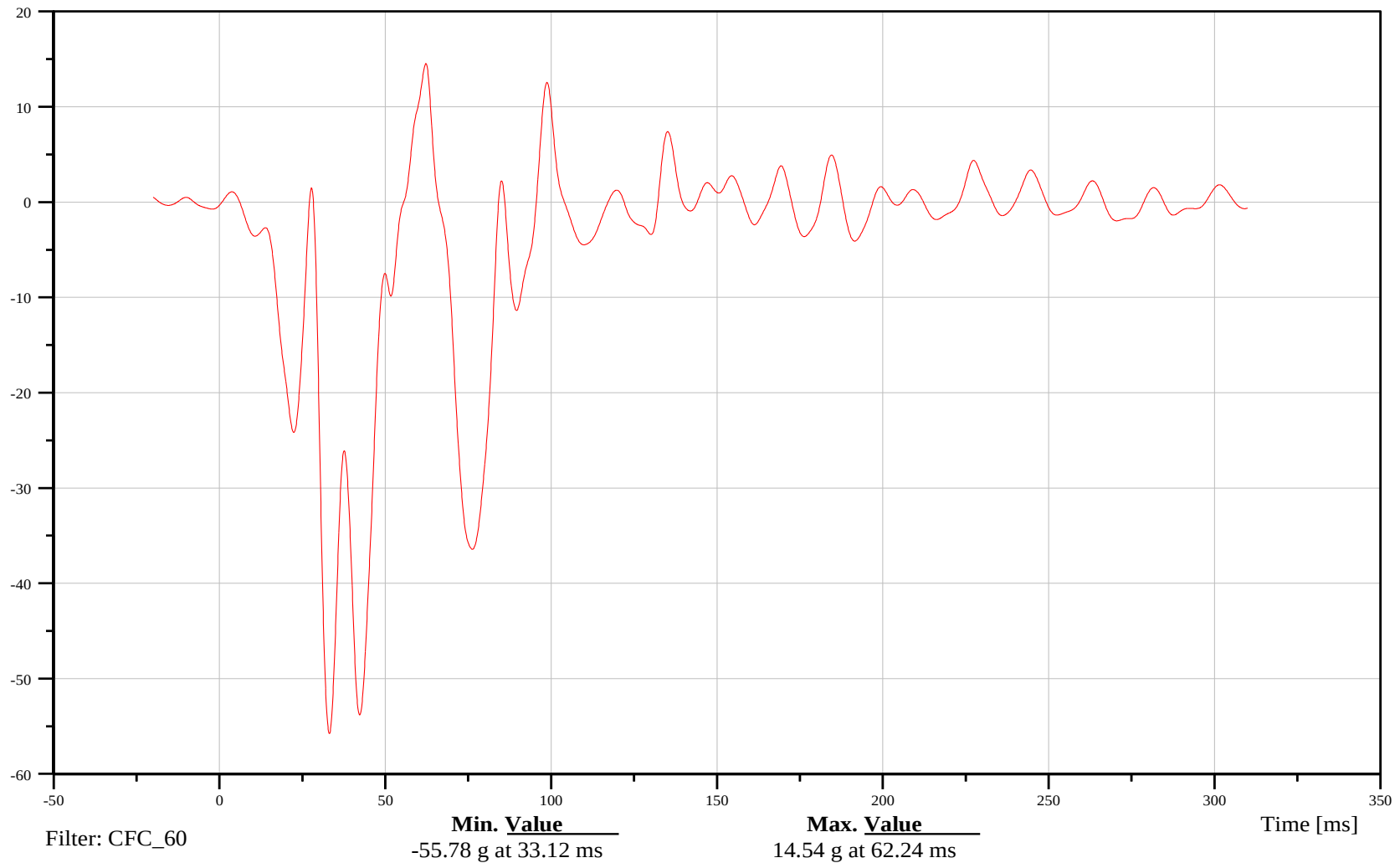
Date: 11/14/2013
Time: 15:28

Right Brake Front Caliper X

Customer: VRTC
Test Number: 131114

131CLPRI0000ACXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

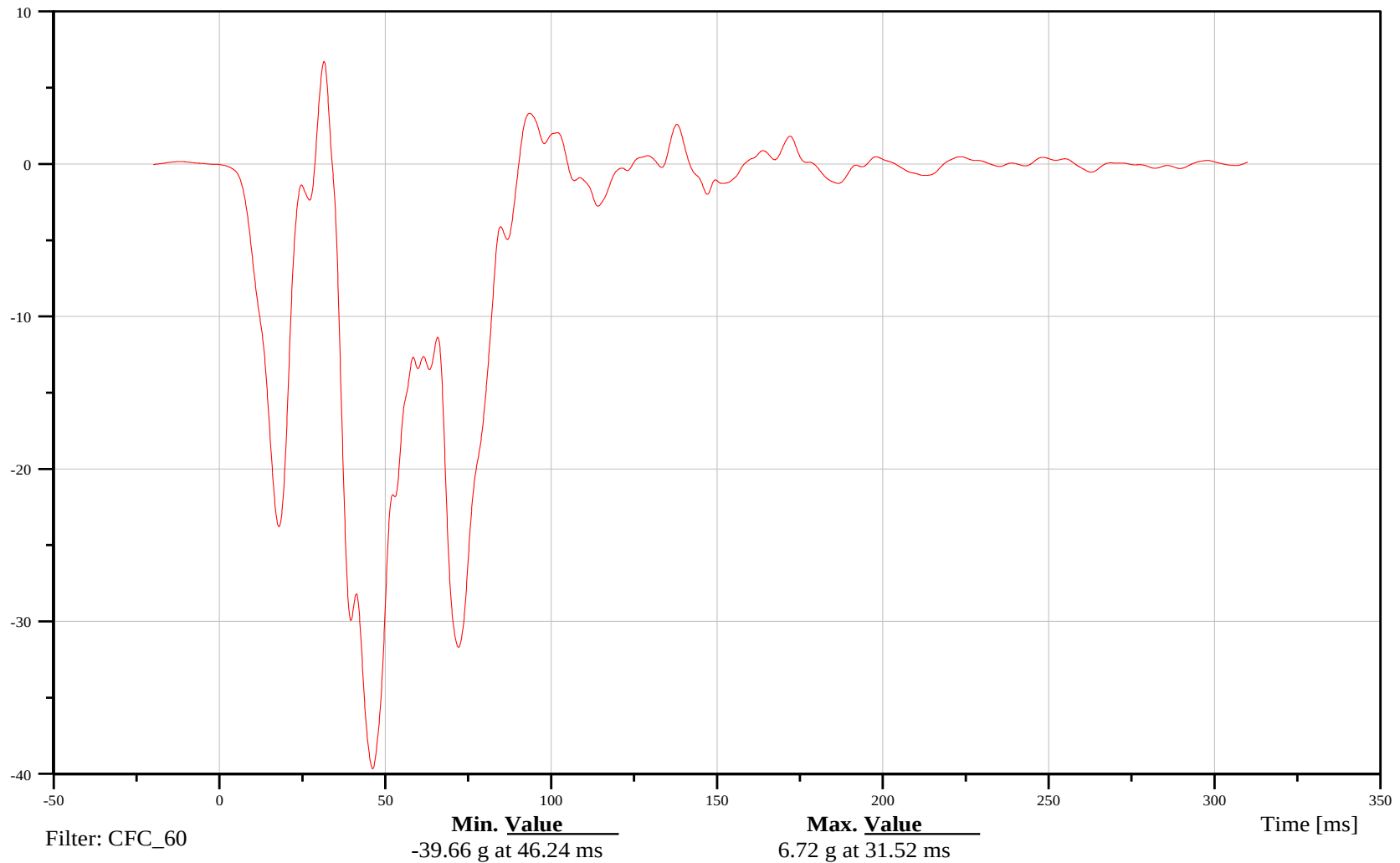
Date: 11/14/2013
Time: 15:28

Center of IP X

Customer: VRTC
Test Number: 131114

12DASH000000ACXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

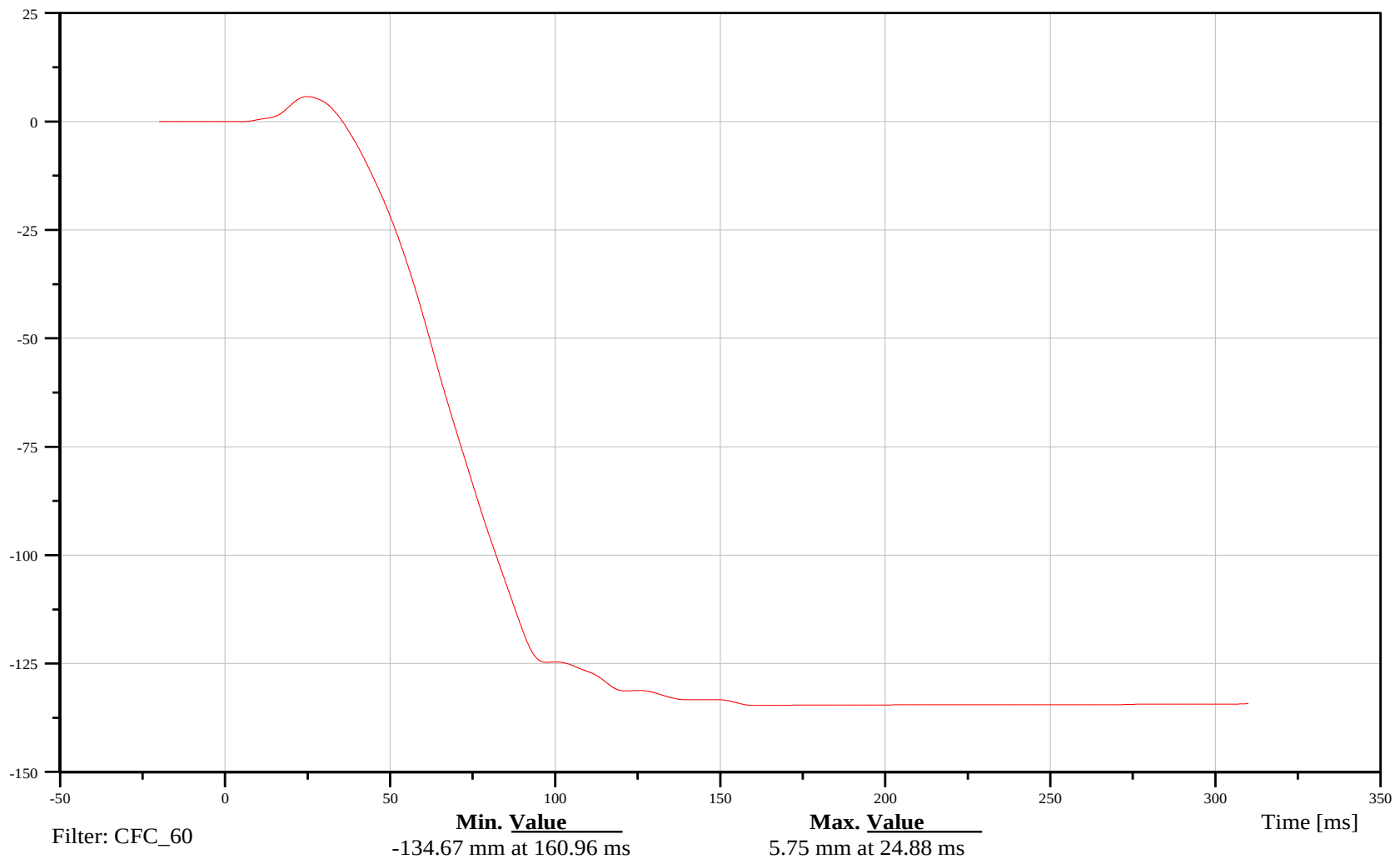
Date: 11/14/2013
Time: 15:28

Driver Belt Displacement

Customer: VRTC
Test Number: 131114

11SEBE0000B4DSXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

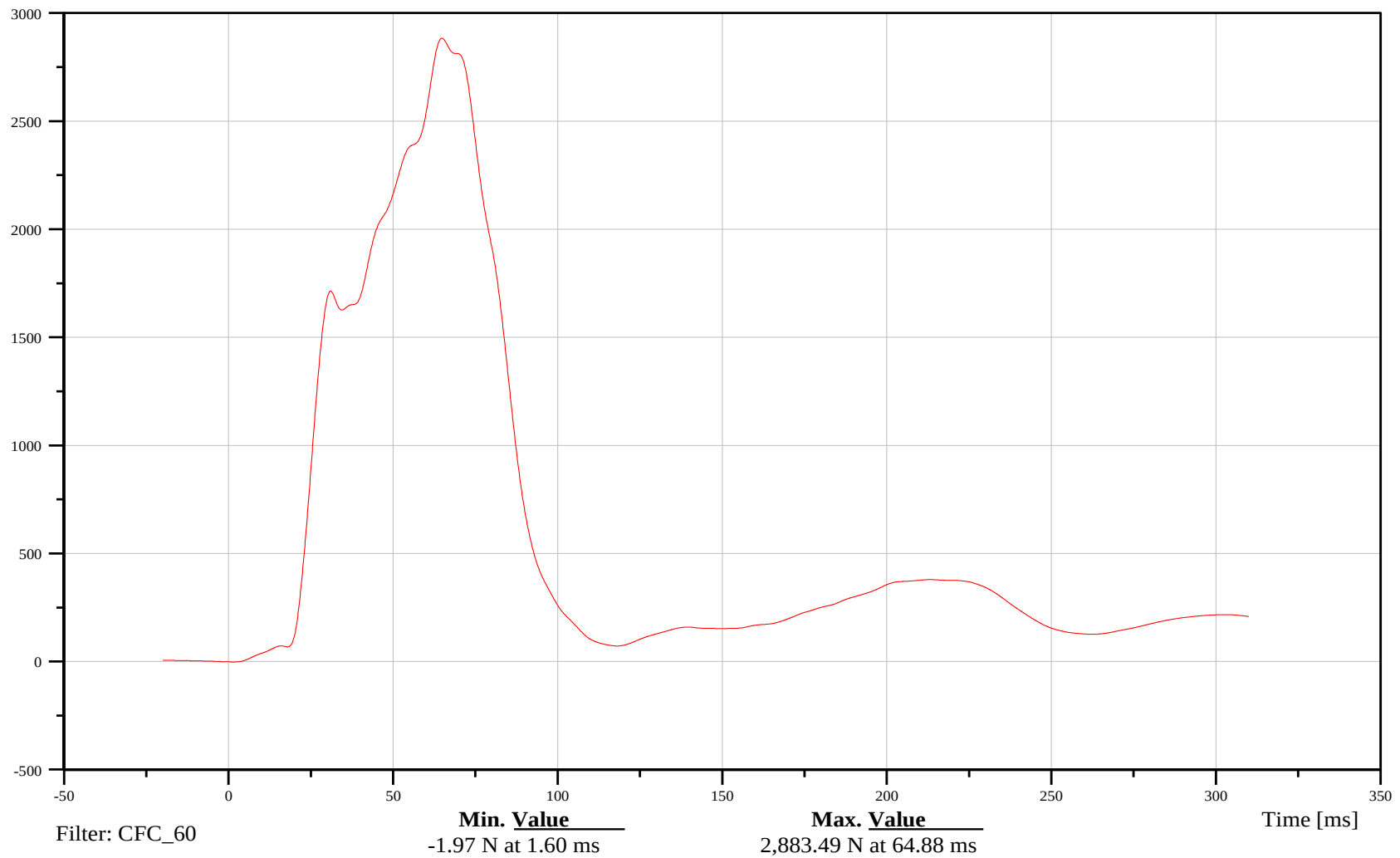
Date: 11/14/2013
Time: 15:28

Driver Lap Belt Force

Customer: VRTC
Test Number: 131114

11SEBE0000B6FO0D

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

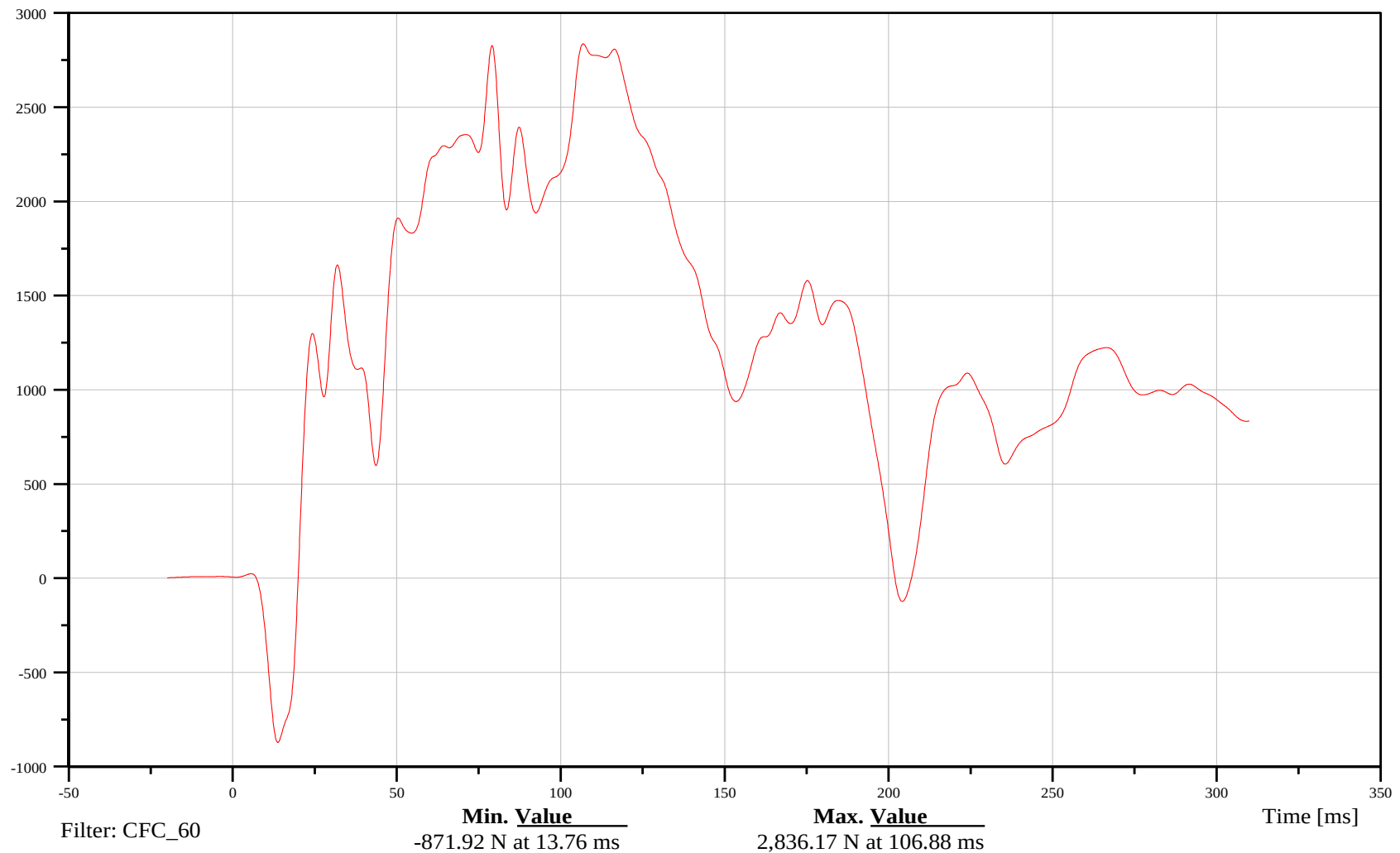
Date: 11/14/2013
Time: 15:28

Driver Retractor Force

Customer: VRTC
Test Number: 131114

11SEBE0000B4FO0D

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

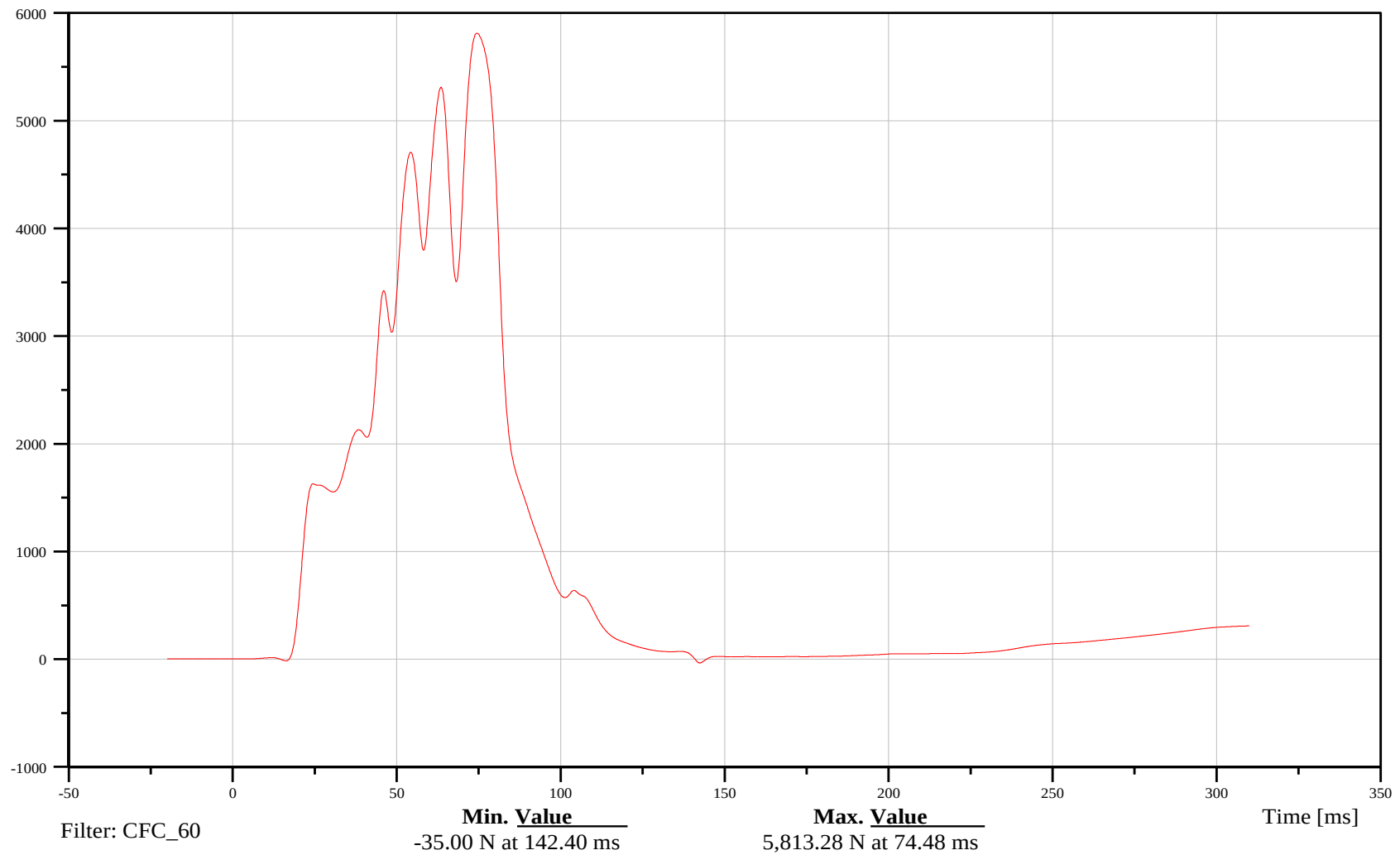
Date: 11/14/2013
Time: 15:28

Driver Shoulder Belt Force

Customer: VRTC
Test Number: 131114

11SEBE0000B3FO0D

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

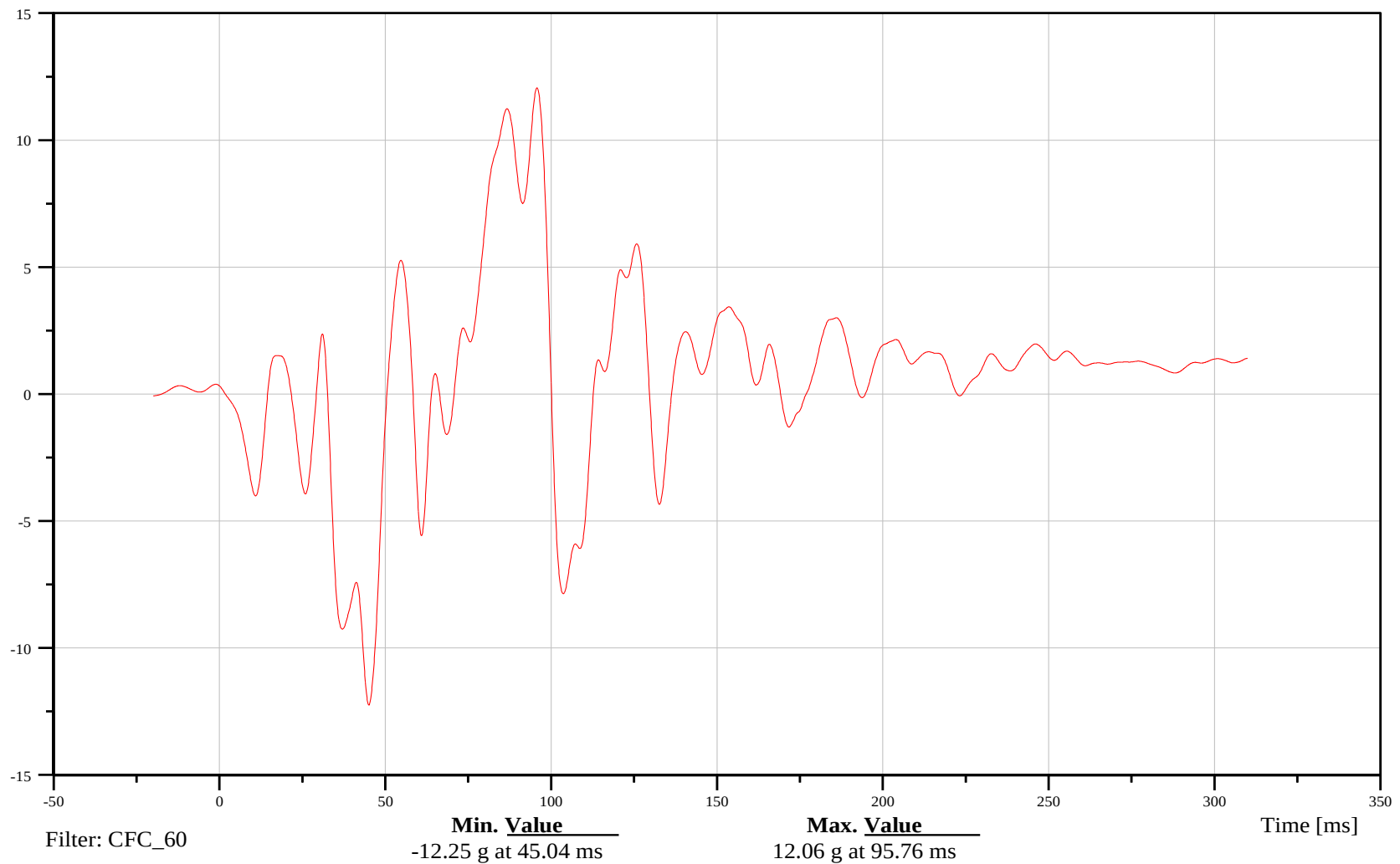
Vehicle Rear Deck Z-axis Acceleration

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

102RDK000000ACZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

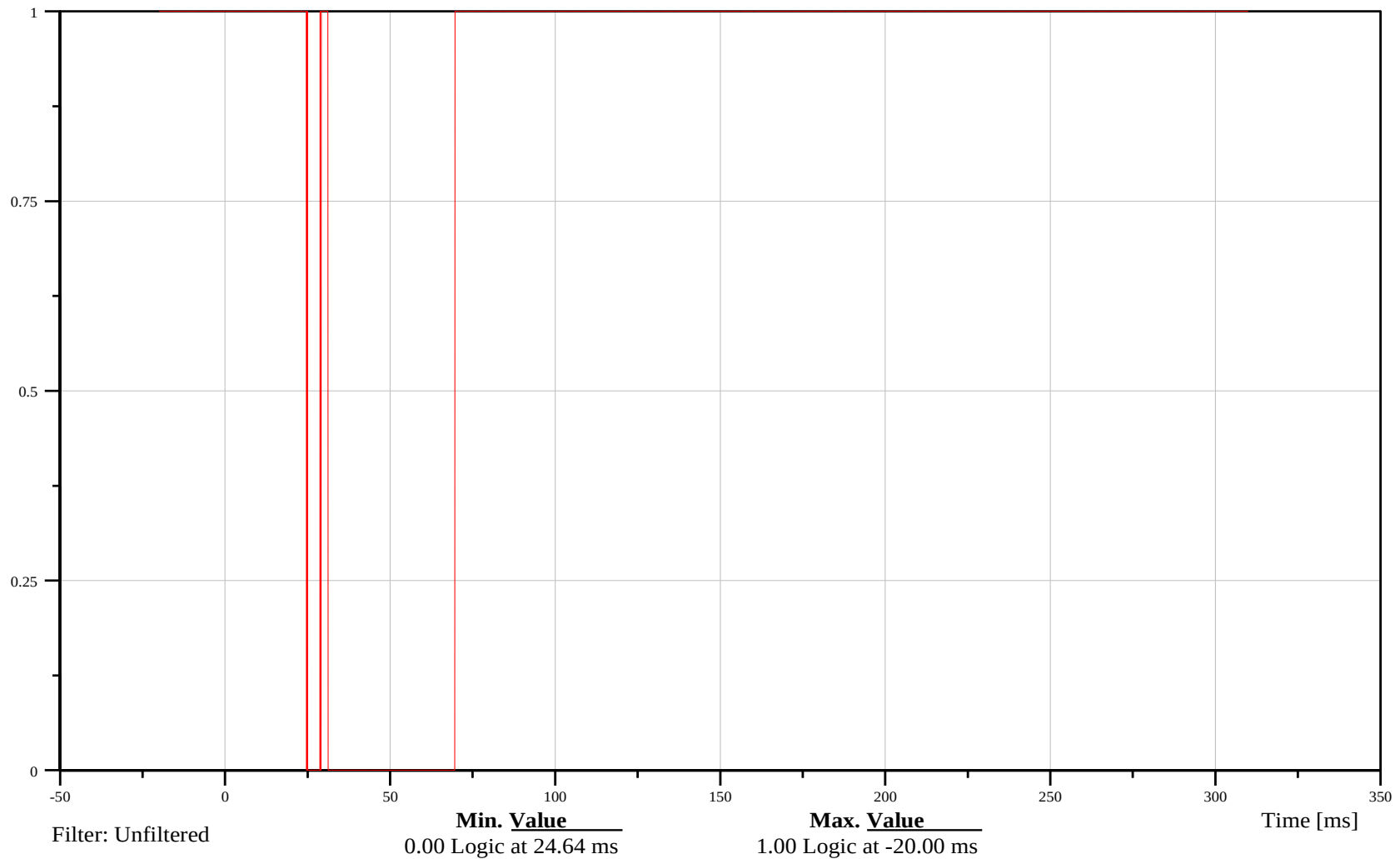
Date: 11/14/2013
Time: 15:28

Driver Left knee Contact

Customer: VRTC
Test Number: 131114

11CONTKNEE01EV00

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

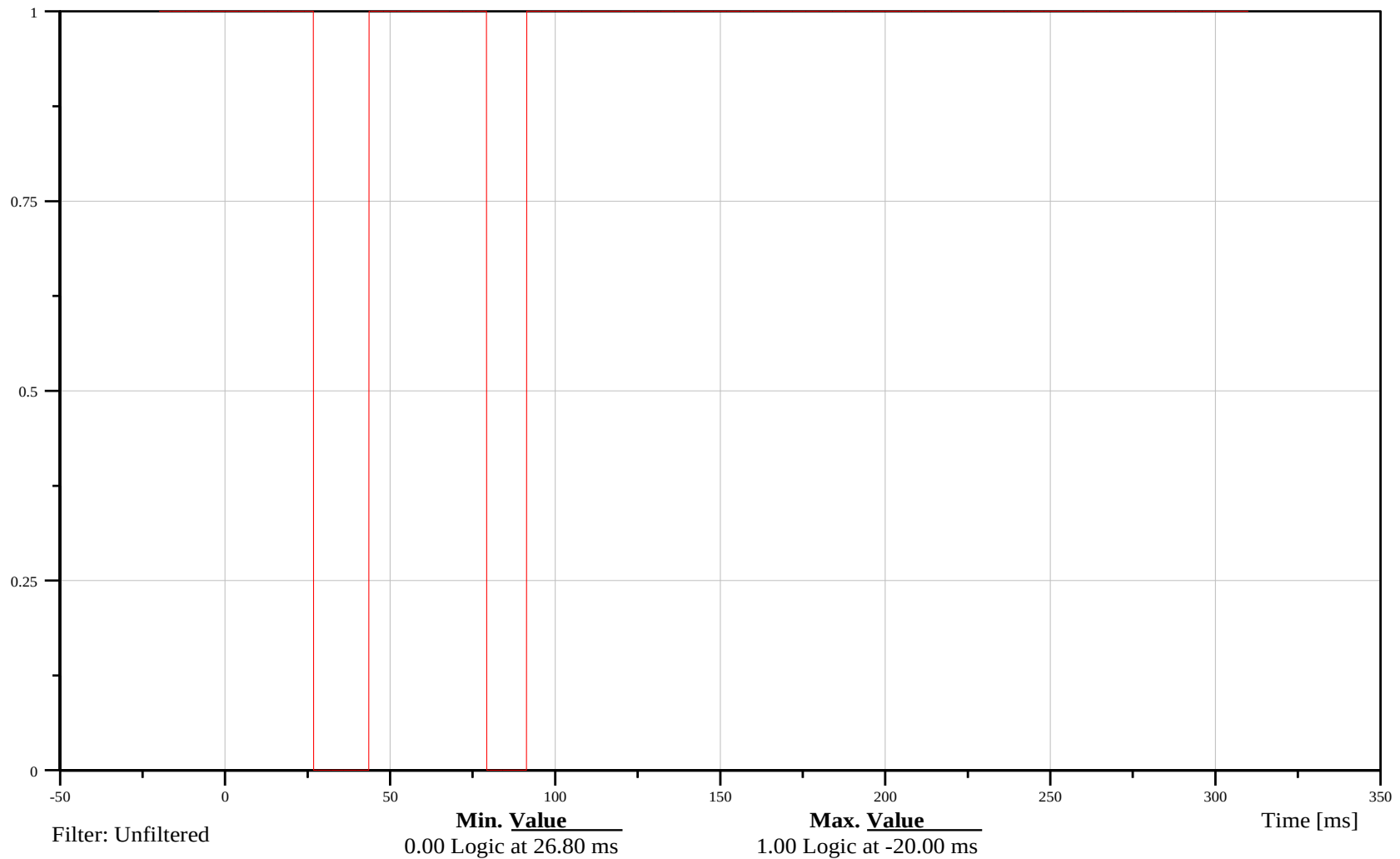
Date: 11/14/2013
Time: 15:28

Driver Right knee Contact

Customer: VRTC
Test Number: 131114

11CONTKNEE02EV00

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

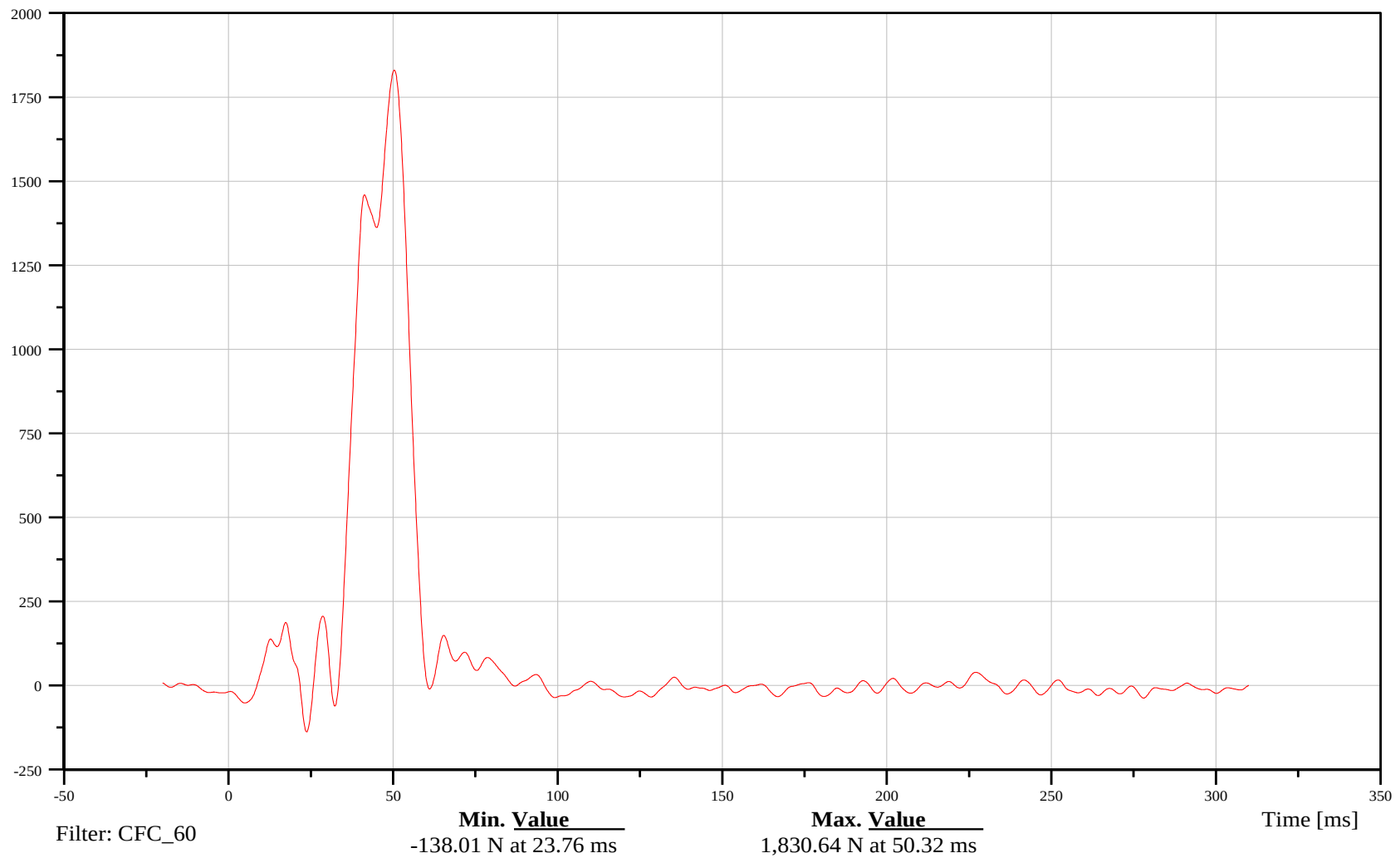
BARRIER 10-1 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR100100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

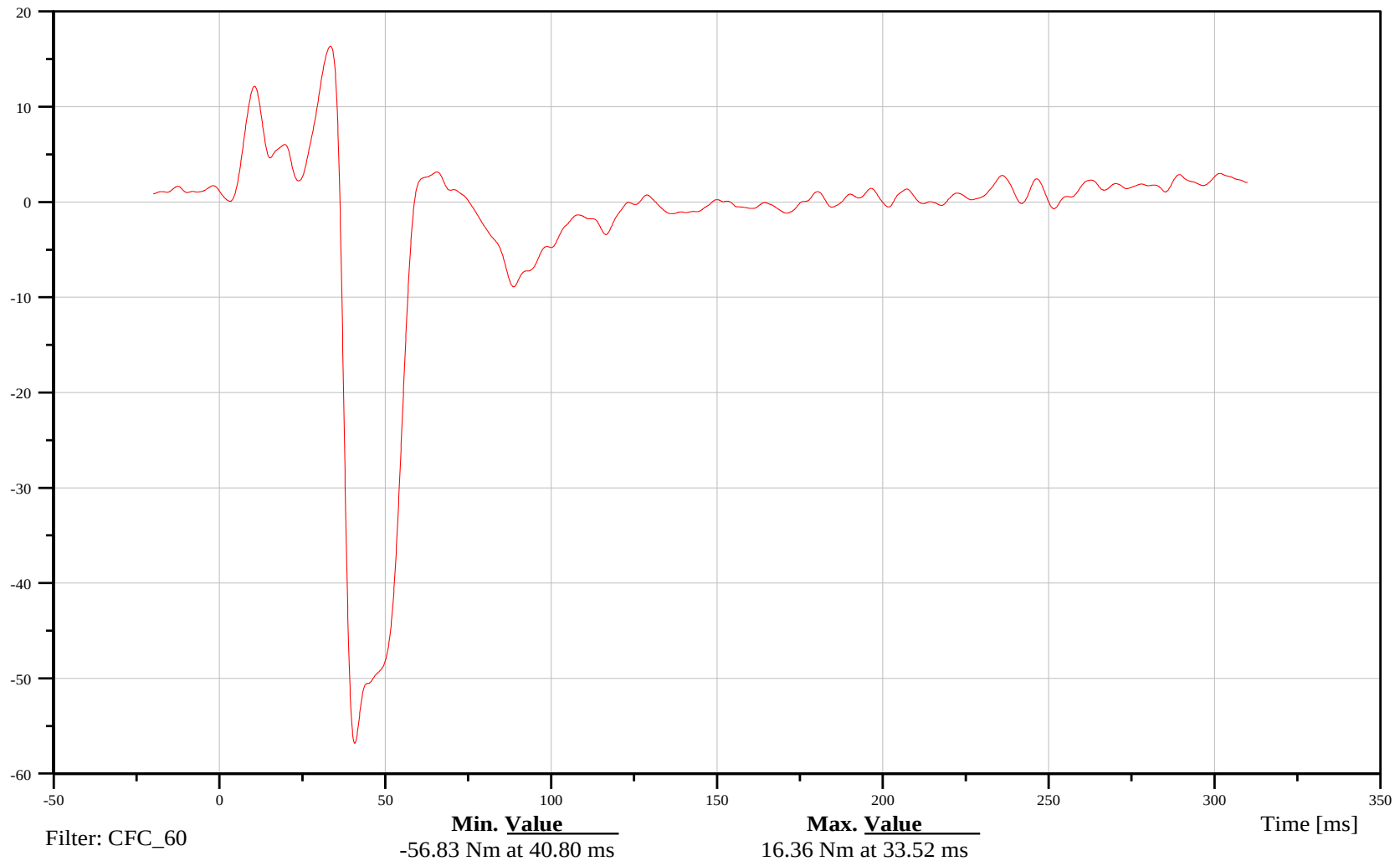
Date: 11/14/2013
Time: 15:28

BARRIER 10-1 My

Customer: VRTC
Test Number: 131114

B0FBAR100100MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

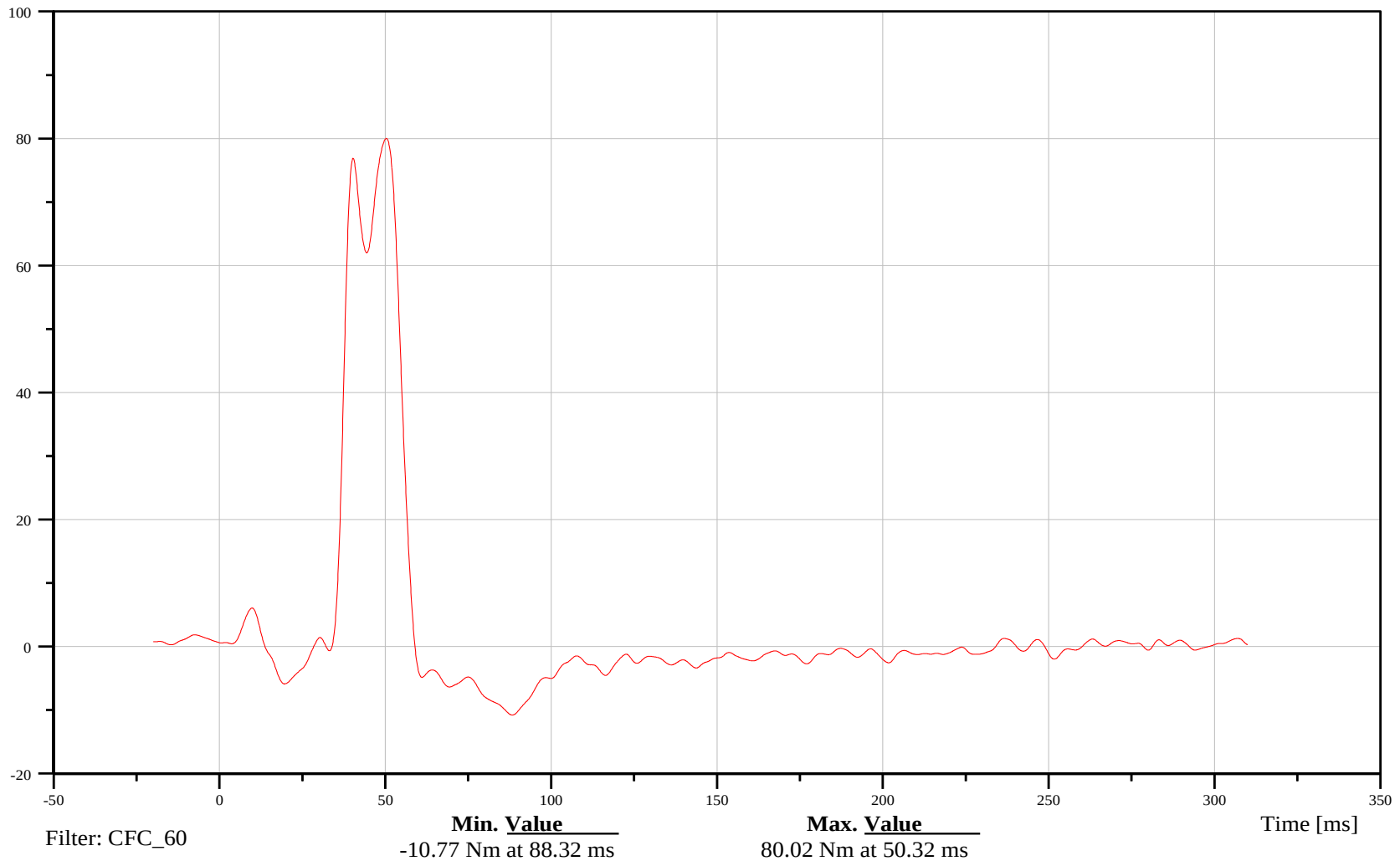
Date: 11/14/2013
Time: 15:28

BARRIER 10-1 Mz

Customer: VRTC
Test Number: 131114

B0FBAR100100MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

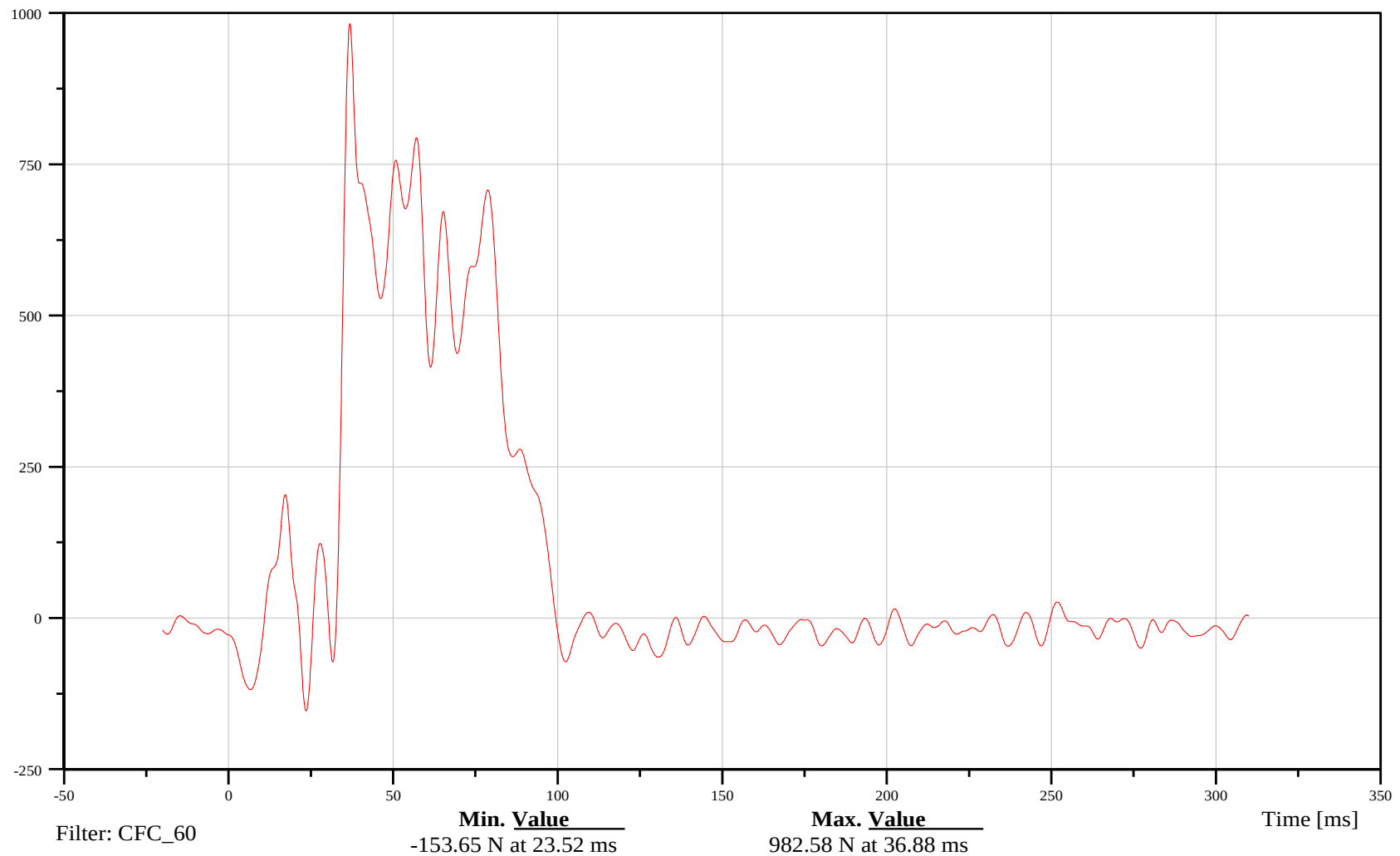
Date: 11/14/2013
Time: 15:28

BARRIER 10-2 EX

Customer: VRTC
Test Number: 131114

B0FBAR100200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

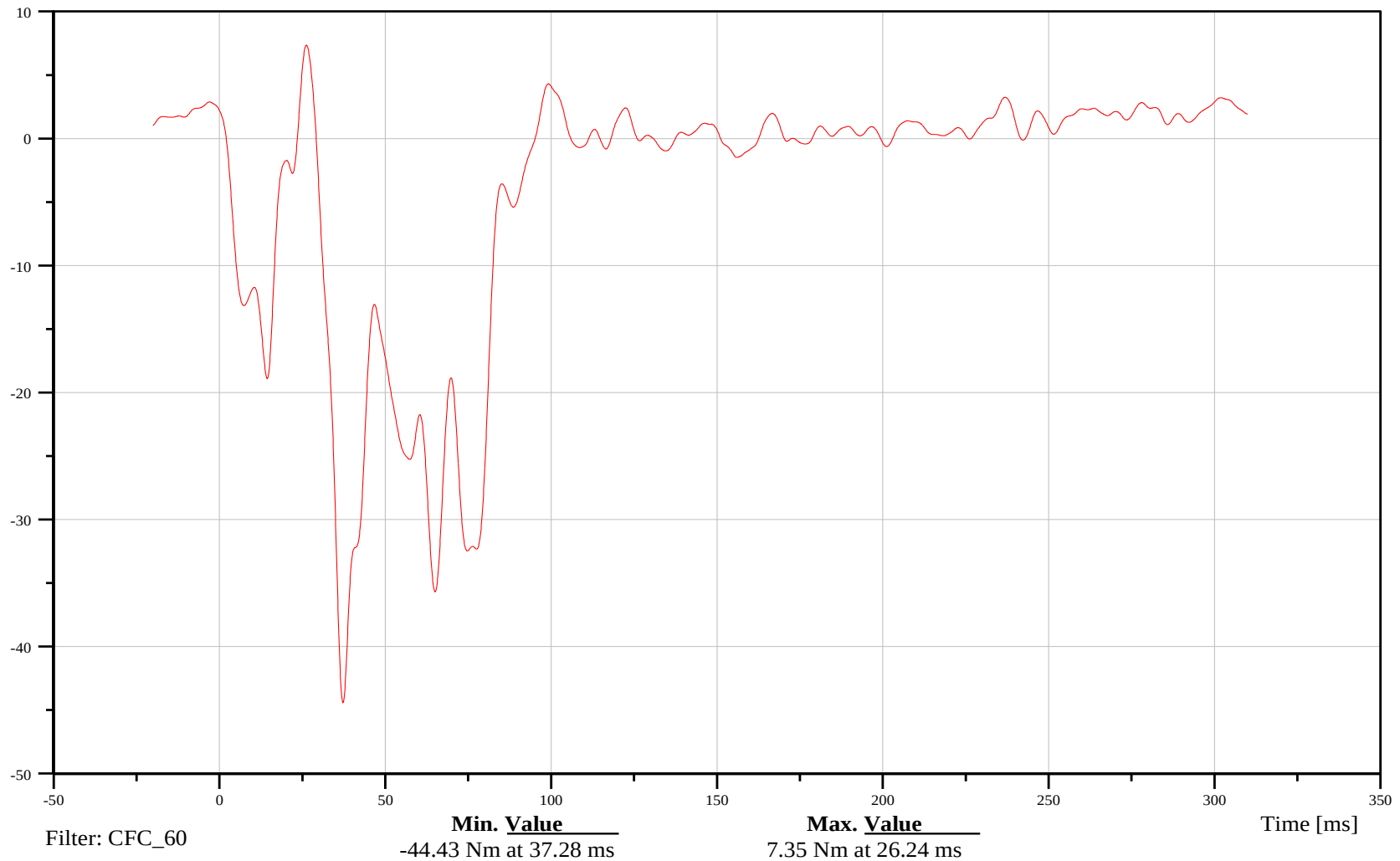
Date: 11/14/2013
Time: 15:28

BARRIER 10-2 My

Customer: VRTC
Test Number: 131114

B0FBAR100200MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

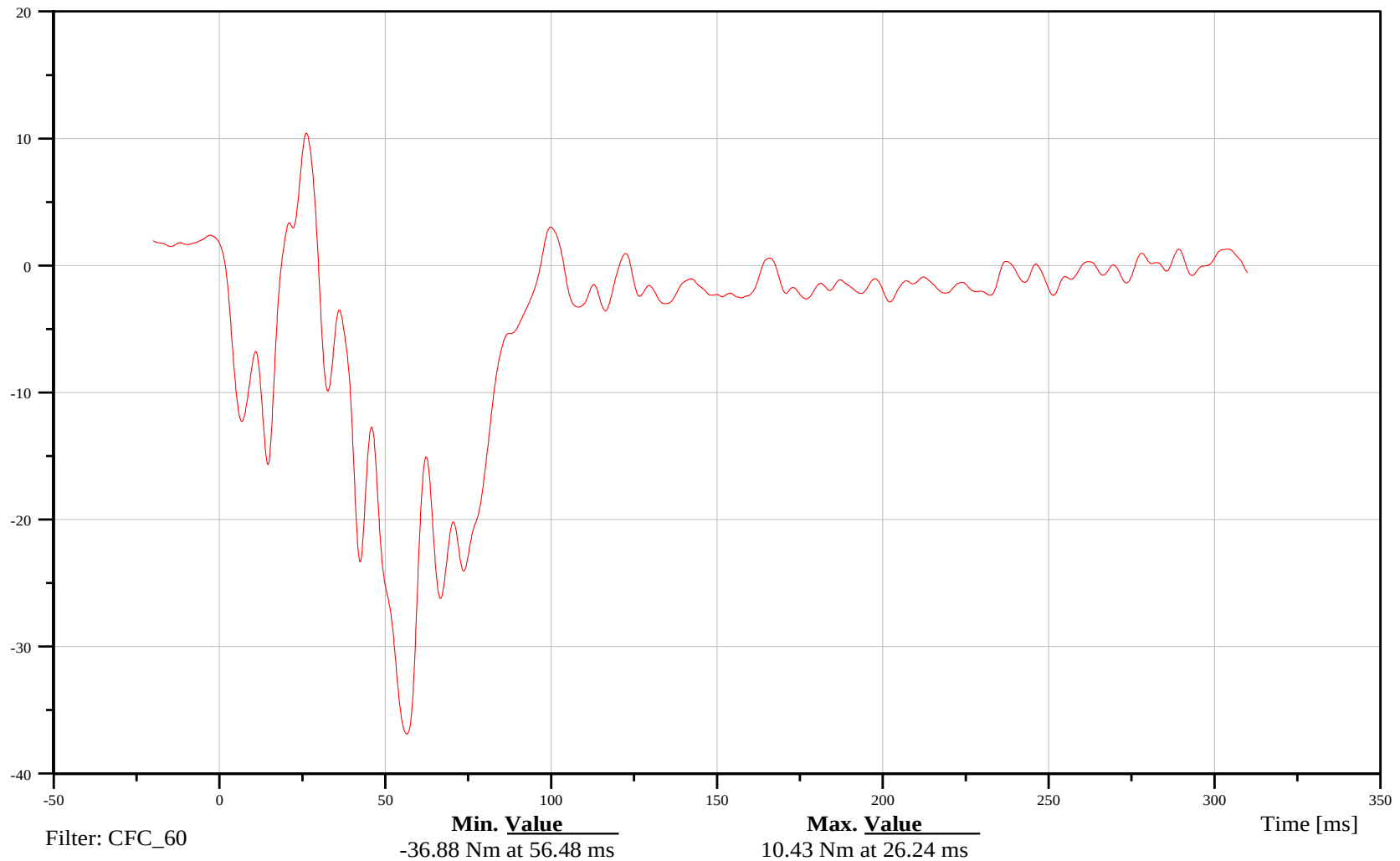
Date: 11/14/2013
Time: 15:28

BARRIER 10-2 Mz

Customer: VRTC
Test Number: 131114

B0FBAR100200MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

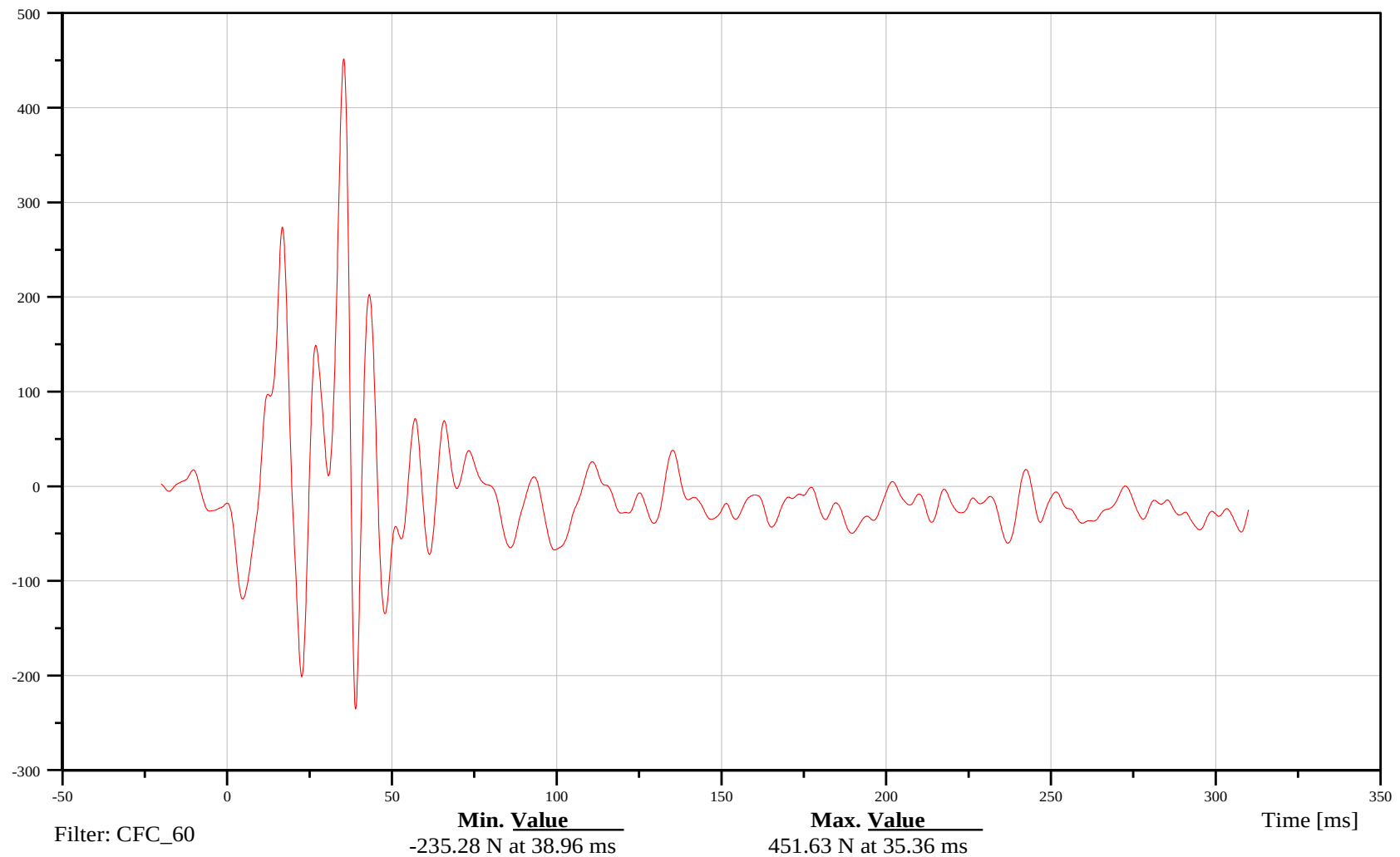
BARRIER 10-3 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR100300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

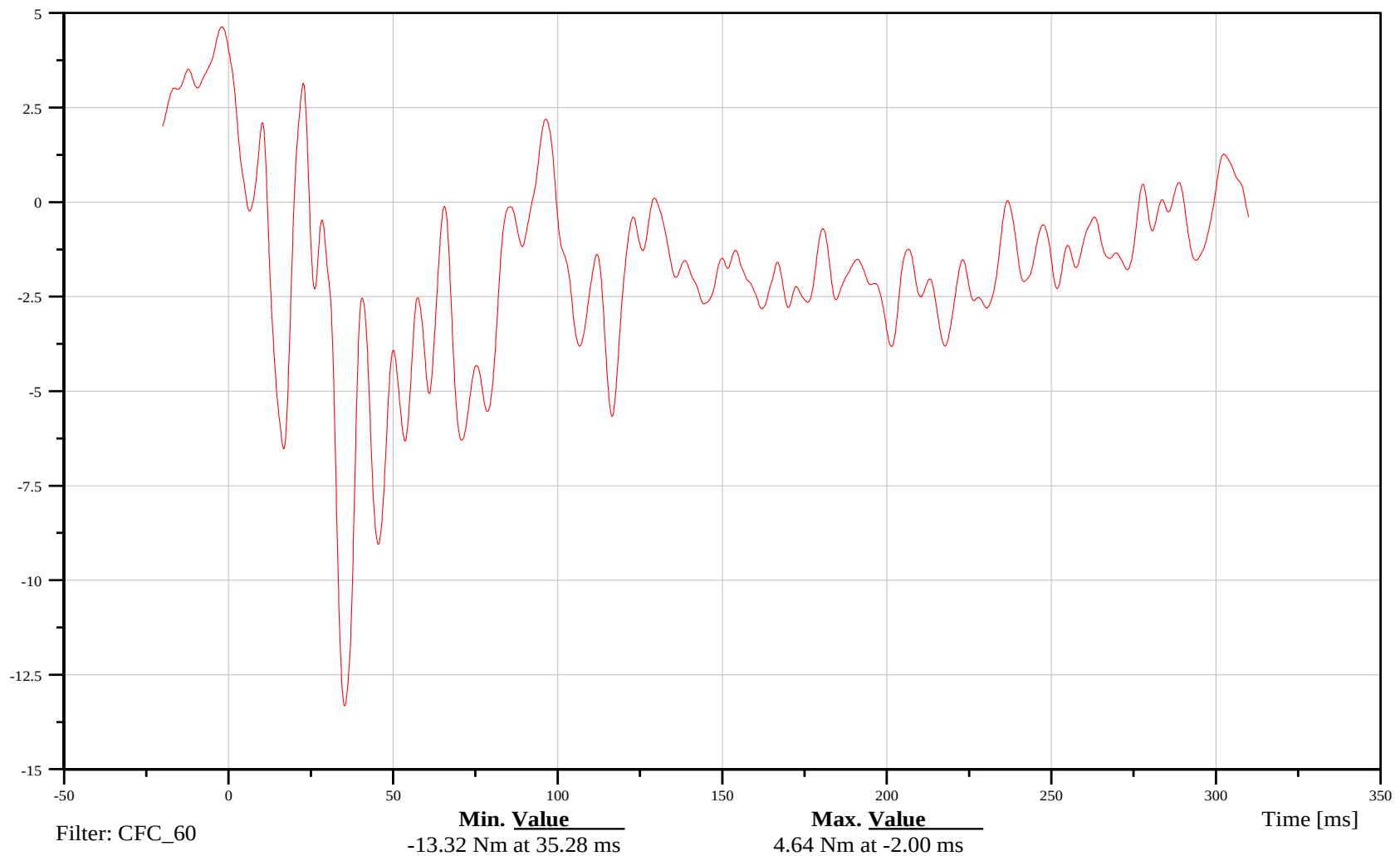
Date: 11/14/2013
Time: 15:28

BARRIER 10-3 My

Customer: VRTC
Test Number: 131114

B0FBAR100300MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

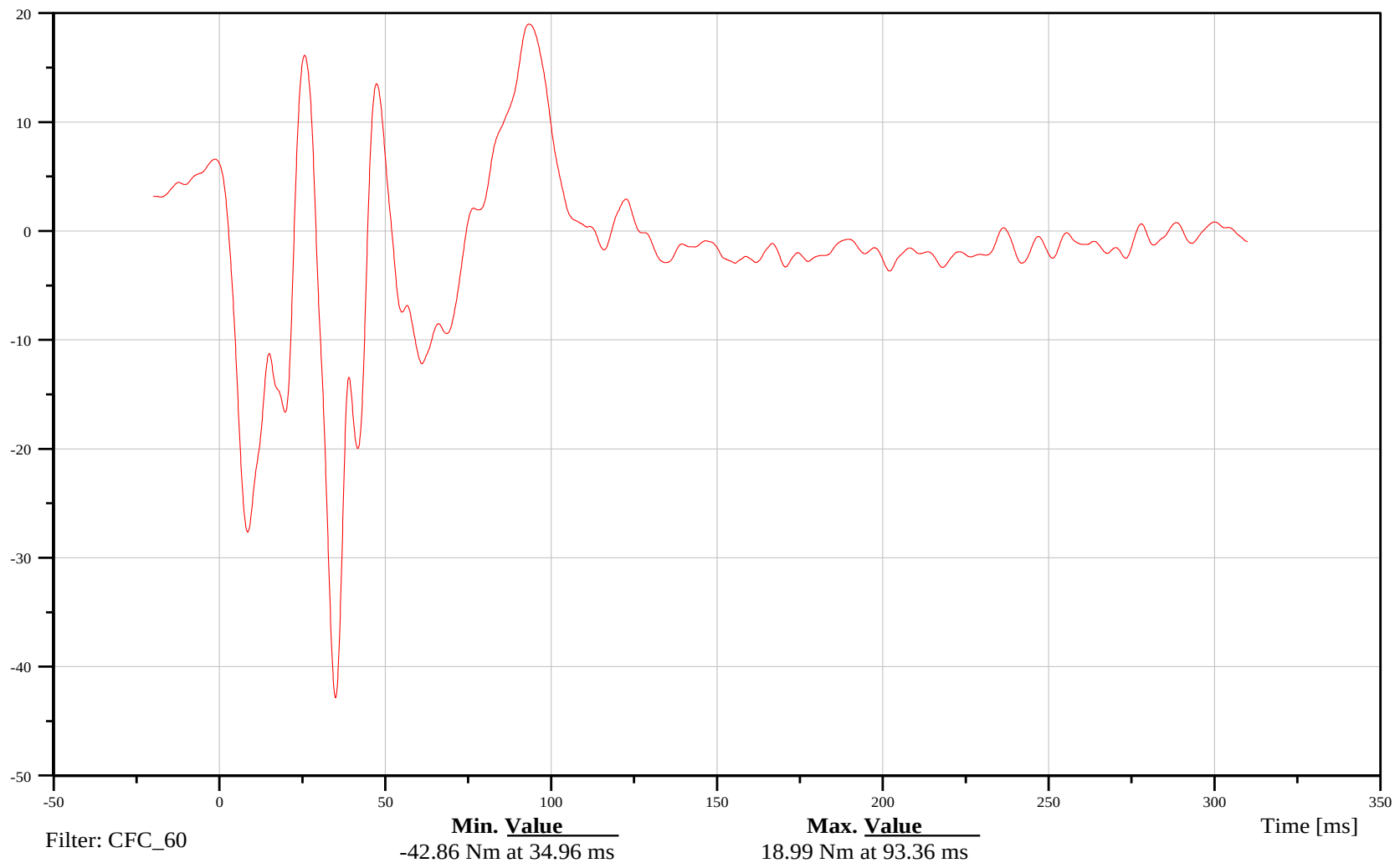
Date: 11/14/2013
Time: 15:28

BARRIER 10-3 Mz

Customer: VRTC
Test Number: 131114

B0FBAR100300MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

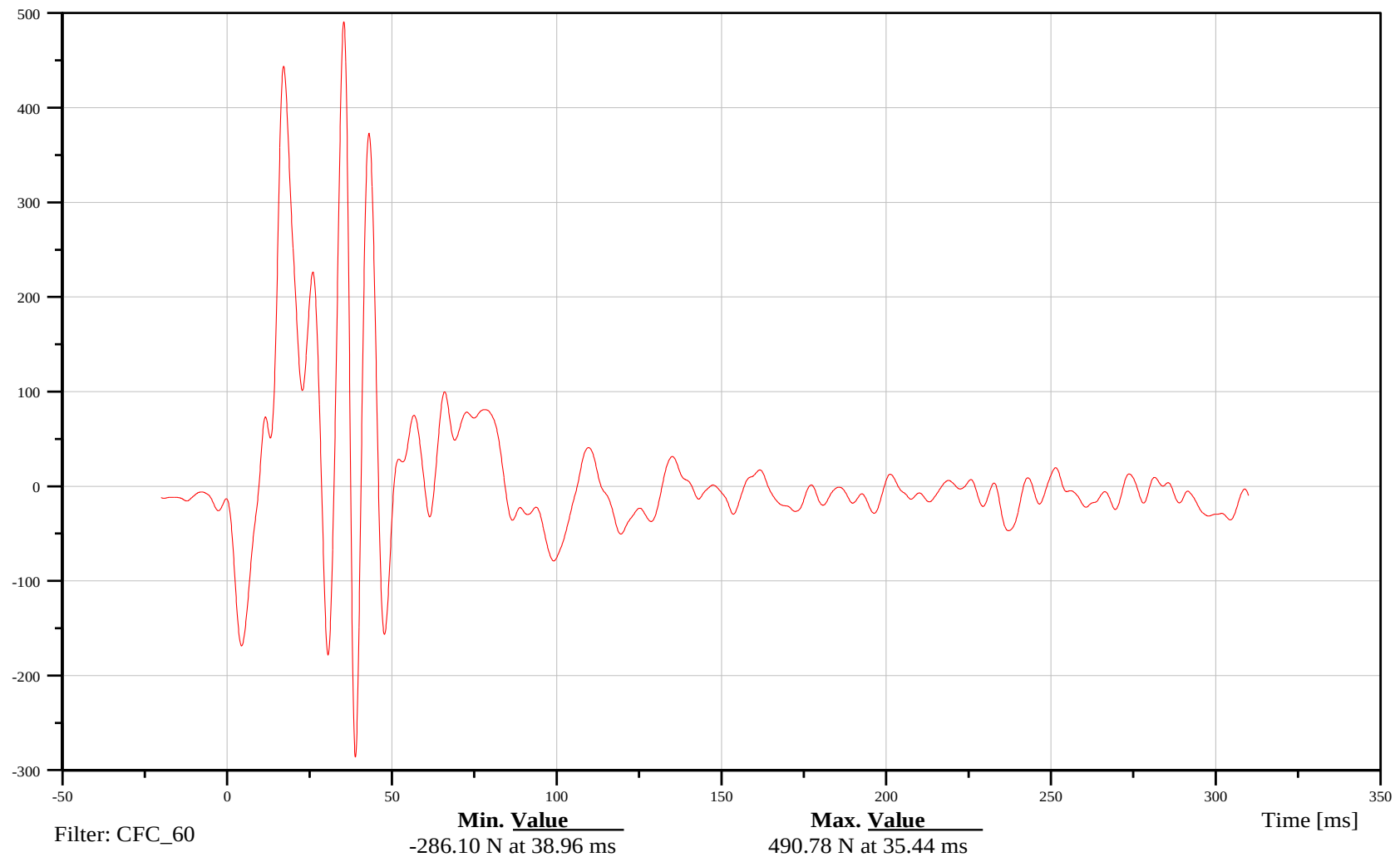
Date: 11/14/2013
Time: 15:28

BARRIER 10-4 EX

Customer: VRTC
Test Number: 131114

B0FBAR100400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

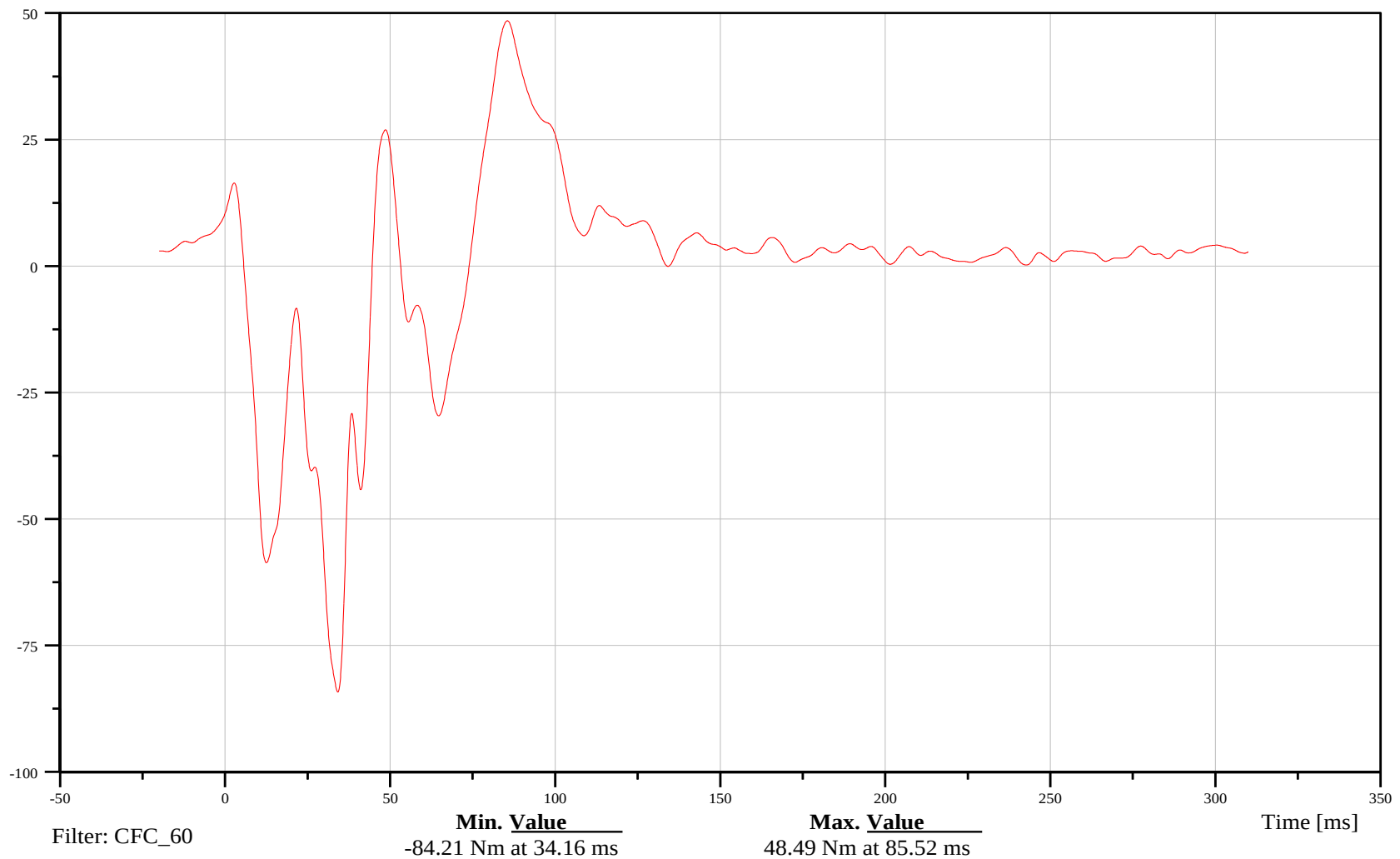
Date: 11/14/2013
Time: 15:28

BARRIER 10-4 My

Customer: VRTC
Test Number: 131114

B0FBAR100400MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

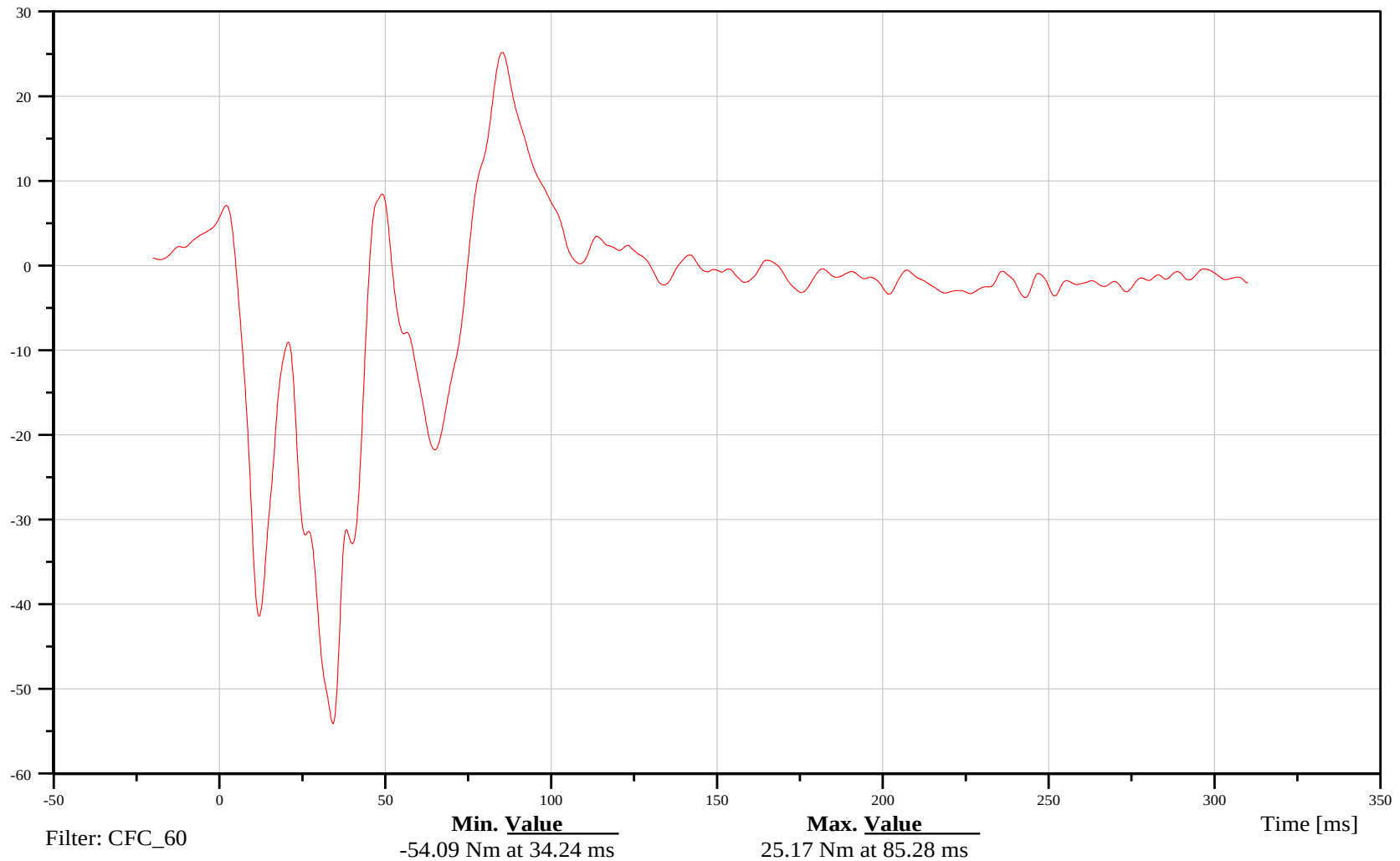
Date: 11/14/2013
Time: 15:28

BARRIER 10-4 Mz

Customer: VRTC
Test Number: 131114

B0FBAR100400MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

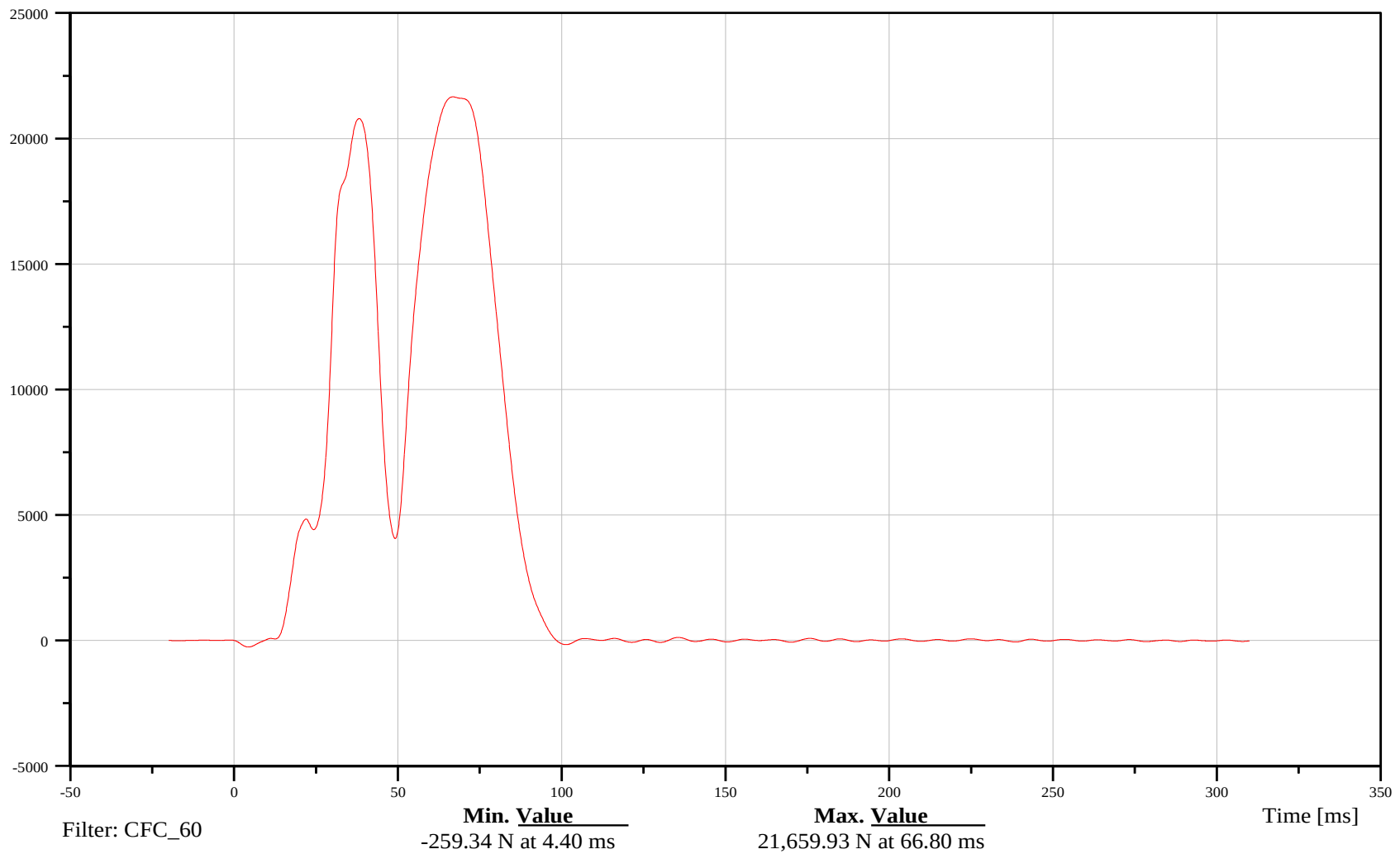
BARRIER 10-5 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR100500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

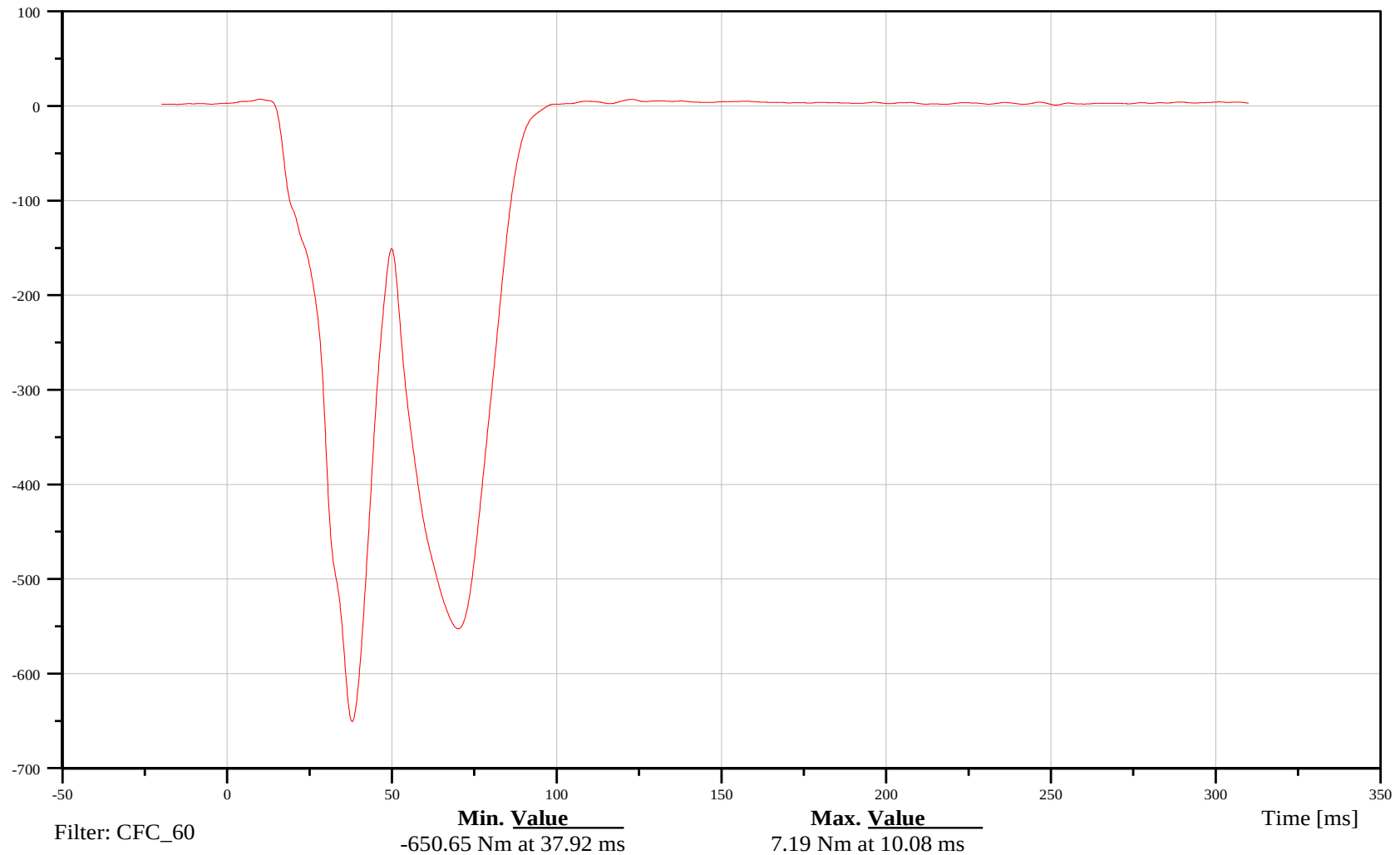
BARRIER 10-5 My

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR100500MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

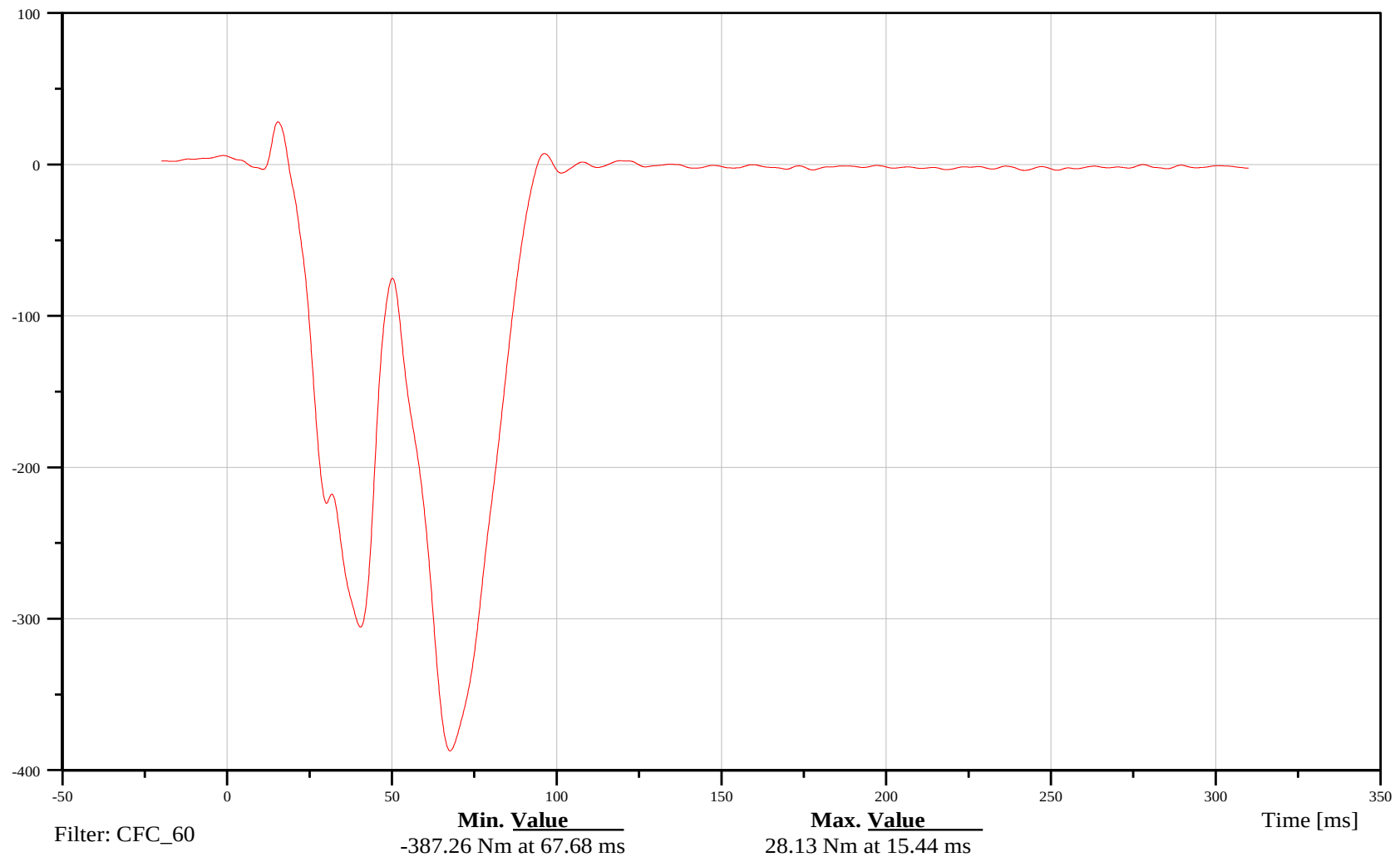
Date: 11/14/2013
Time: 15:28

BARRIER 10-5 Mz

Customer: VRTC
Test Number: 131114

B0FBAR100500MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

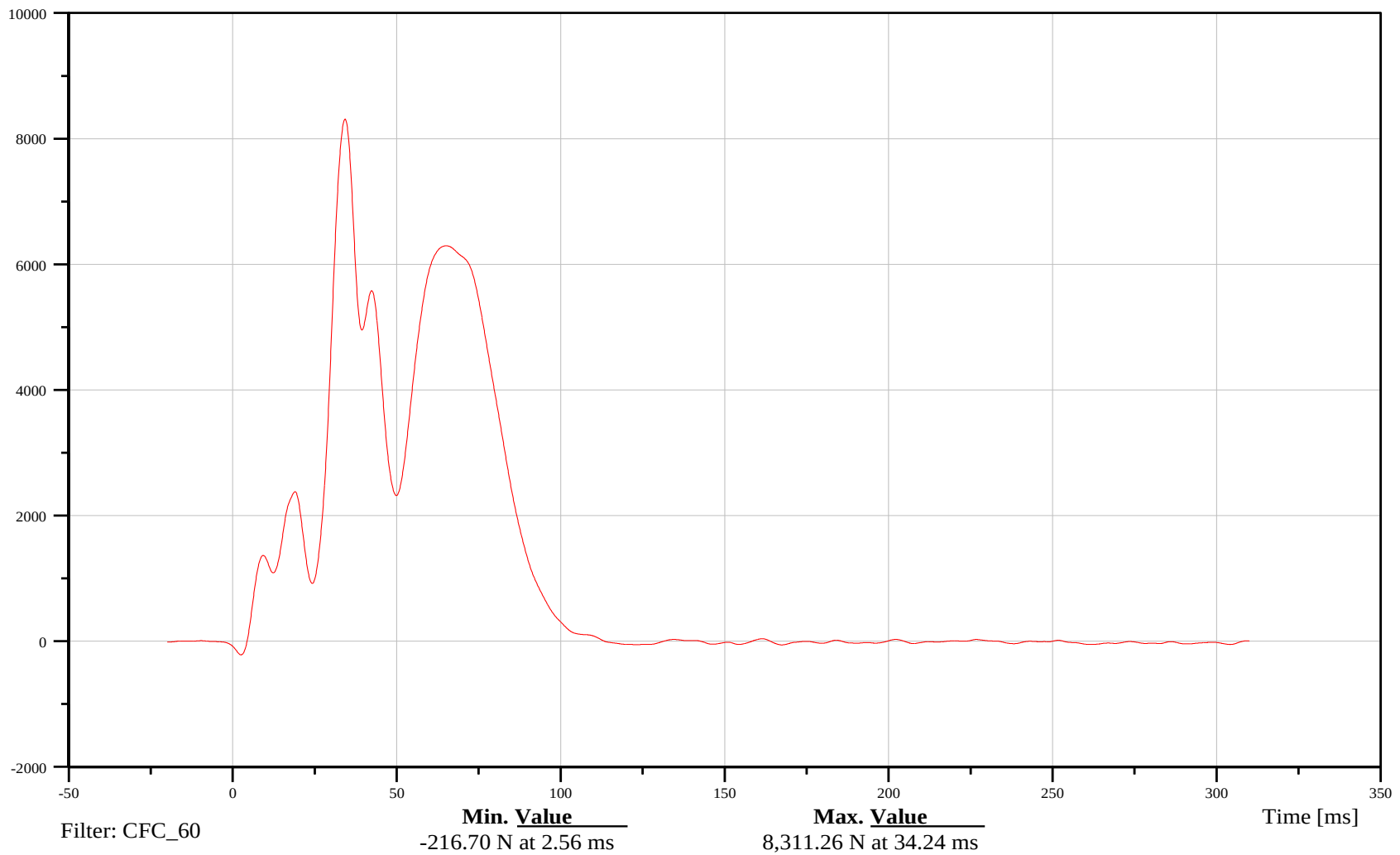
BARRIER 10-6 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR100600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

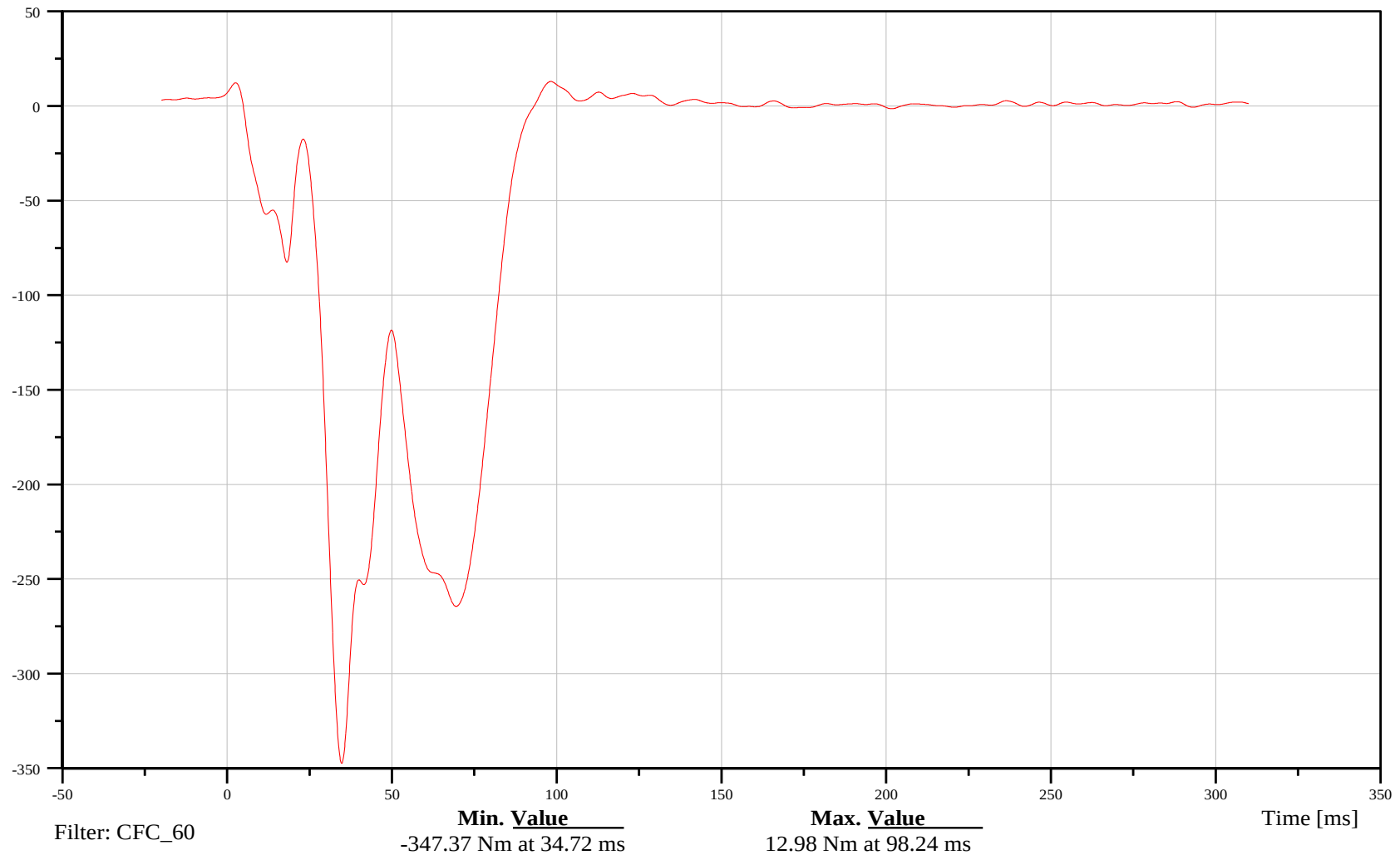
Date: 11/14/2013
Time: 15:28

BARRIER 10-6 My

Customer: VRTC
Test Number: 131114

B0FBAR100600MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

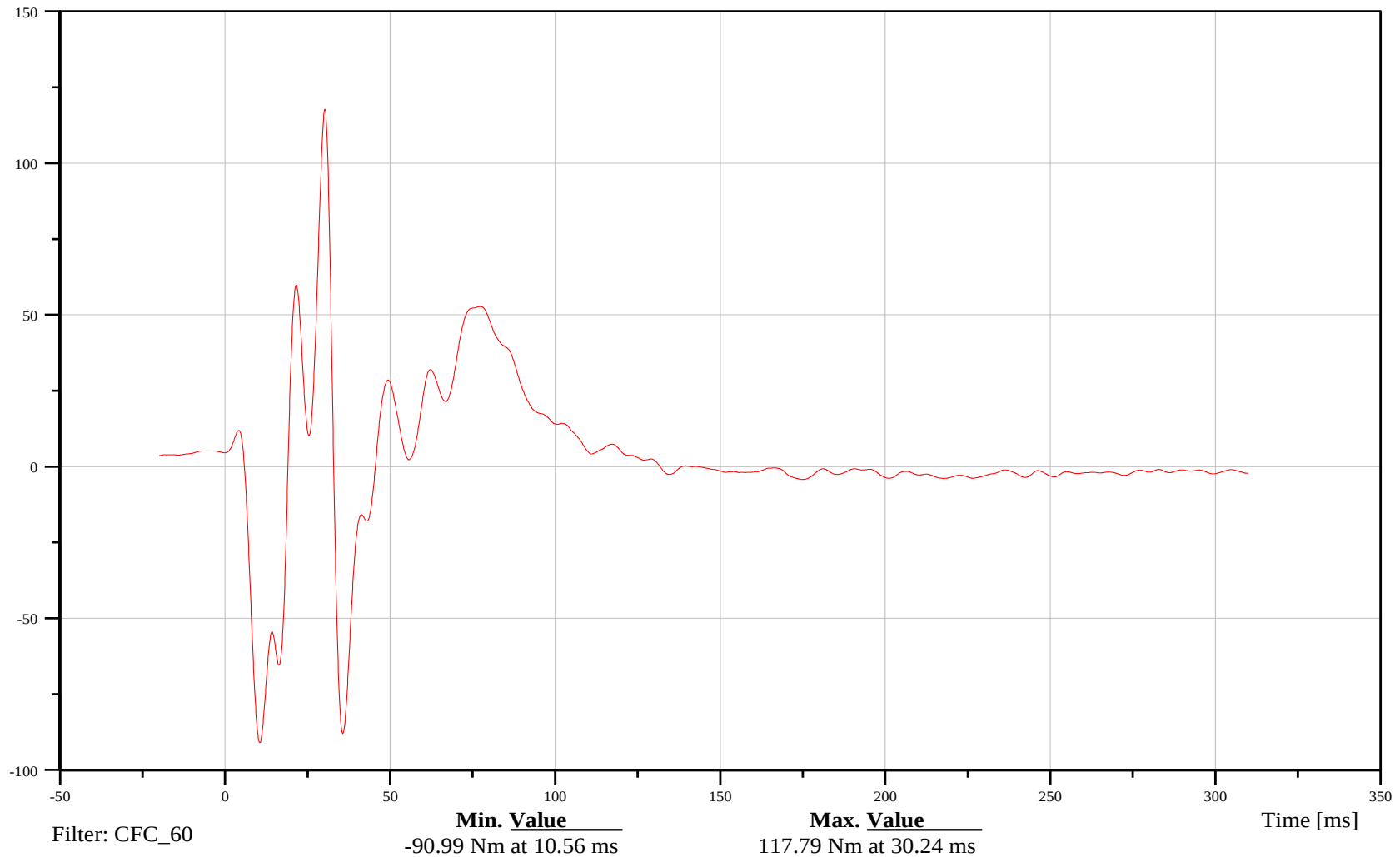
Date: 11/14/2013
Time: 15:28

BARRIER 10-6 Mz

Customer: VRTC
Test Number: 131114

B0FBAR100600MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

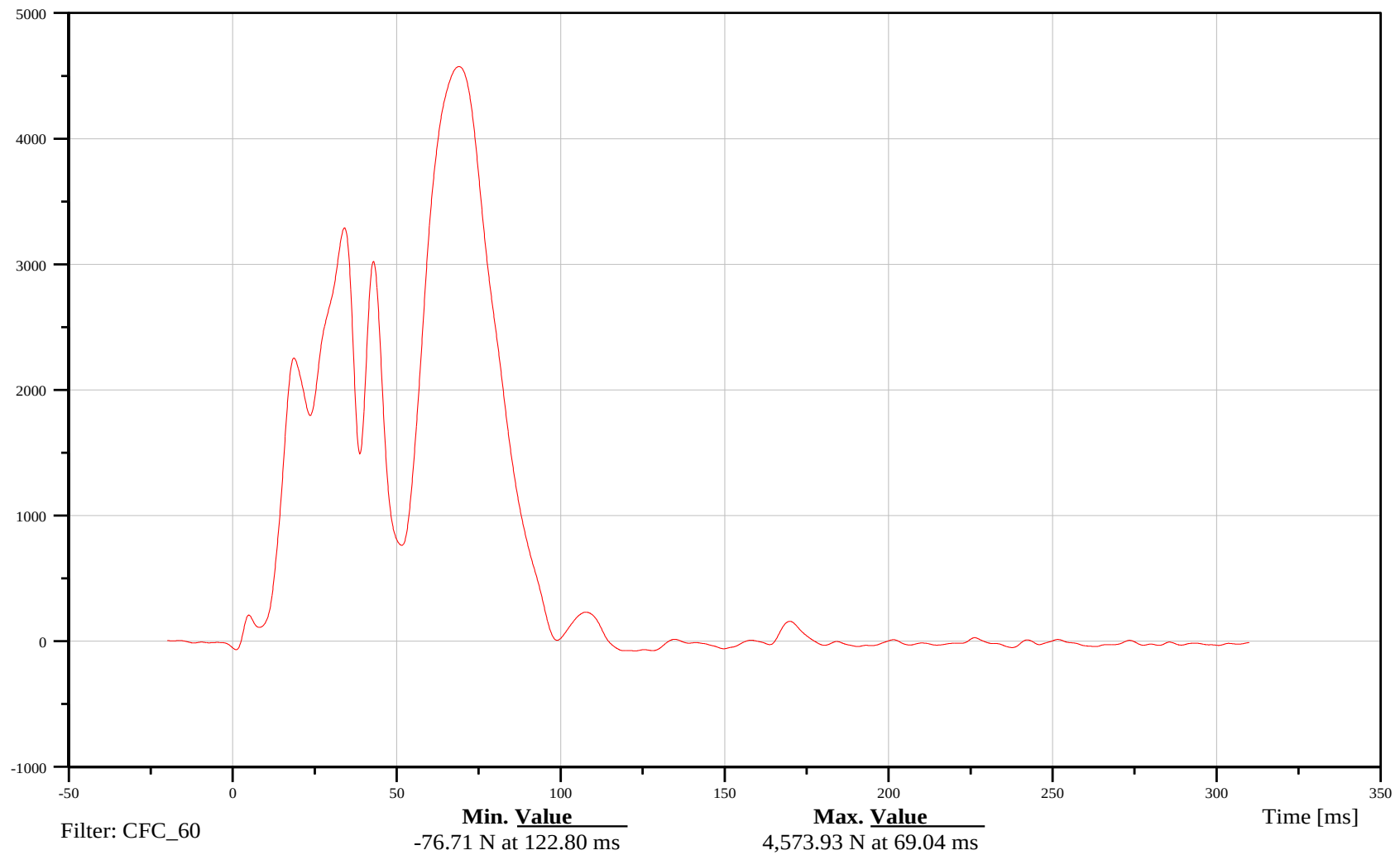
BARRIER 10-7 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR100700FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

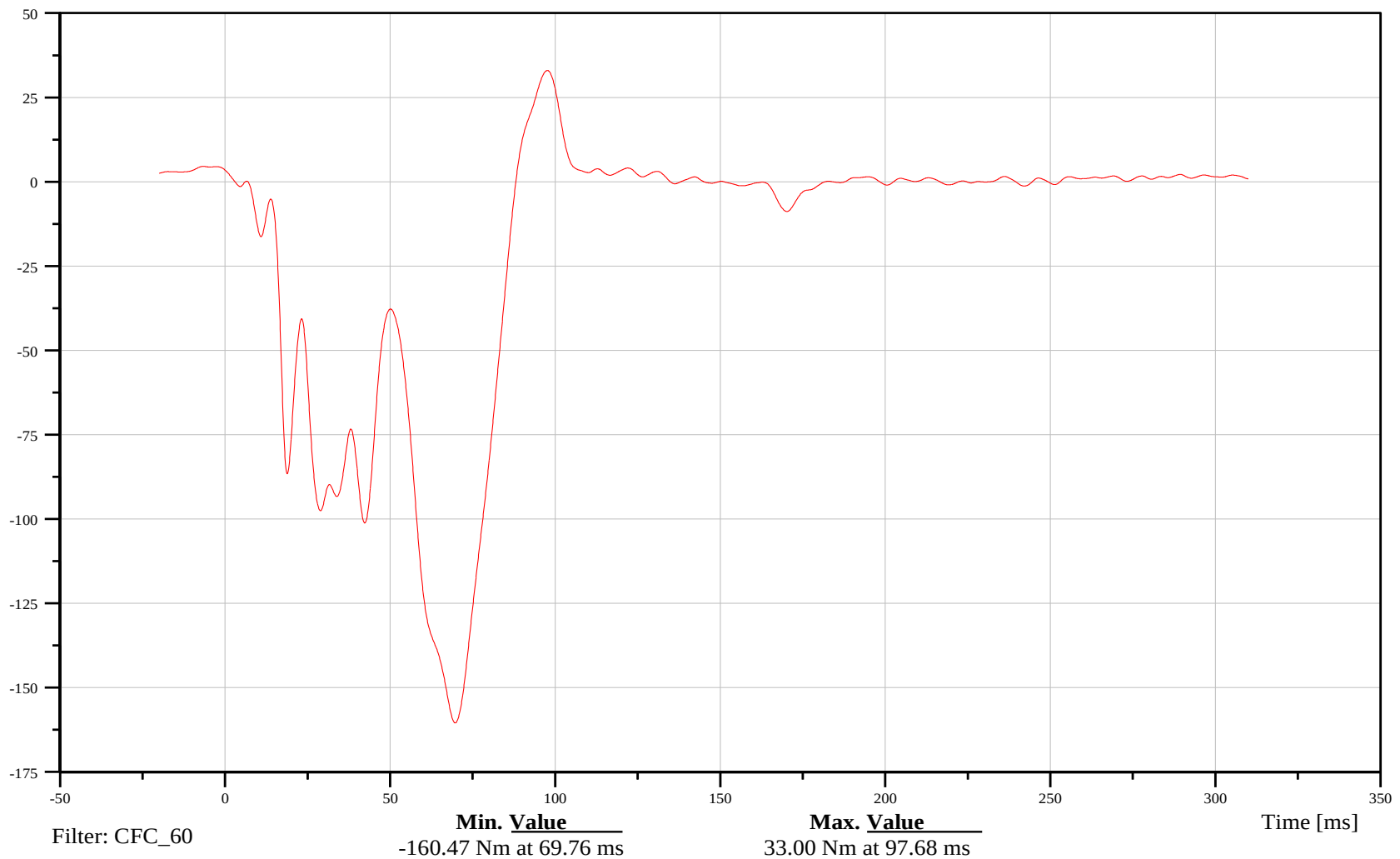
Date: 11/14/2013
Time: 15:28

BARRIER 10-7 My

Customer: VRTC
Test Number: 131114

B0FBAR100700MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

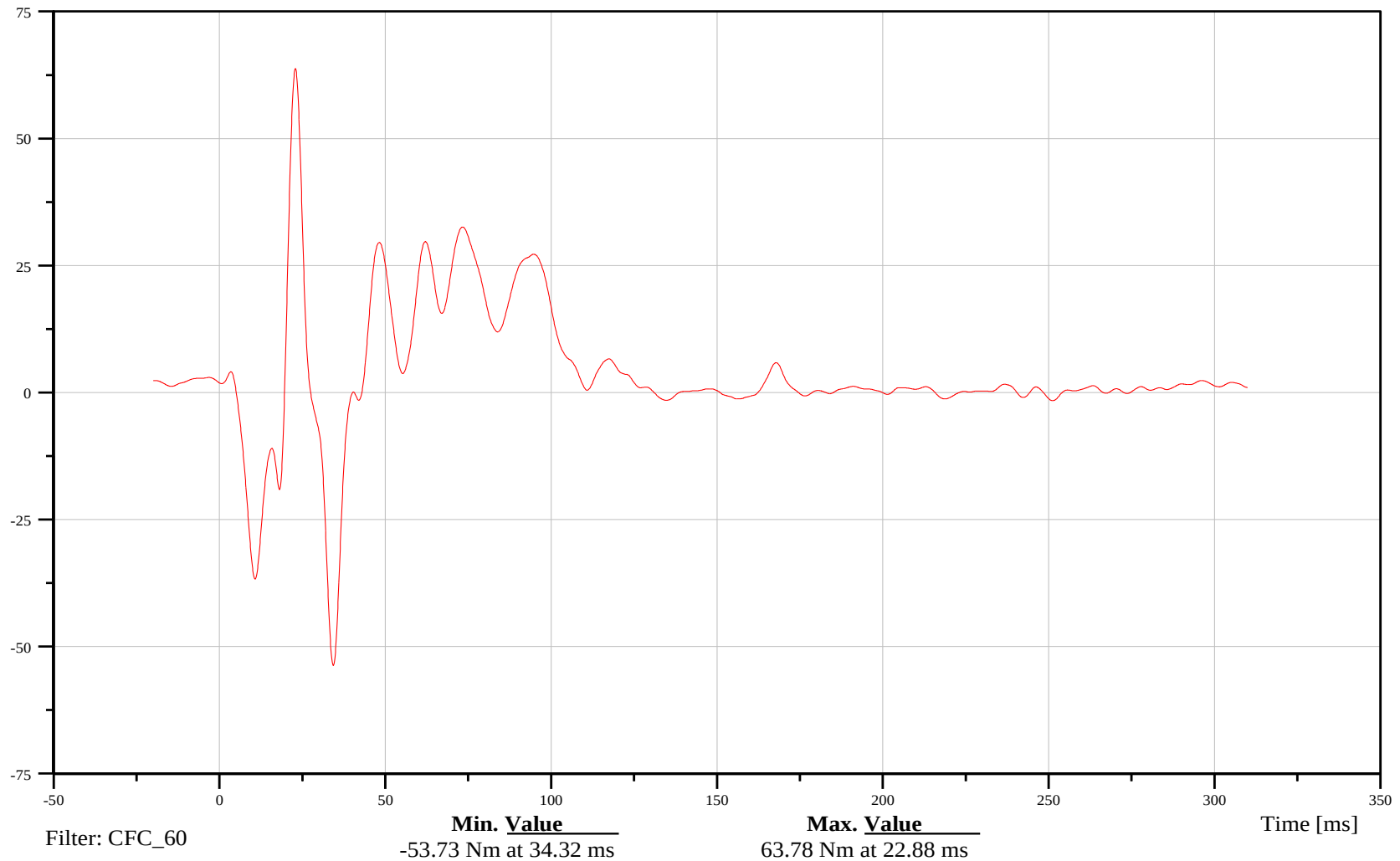
Date: 11/14/2013
Time: 15:28

BARRIER 10-7 Mz

Customer: VRTC
Test Number: 131114

B0FBAR100700MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

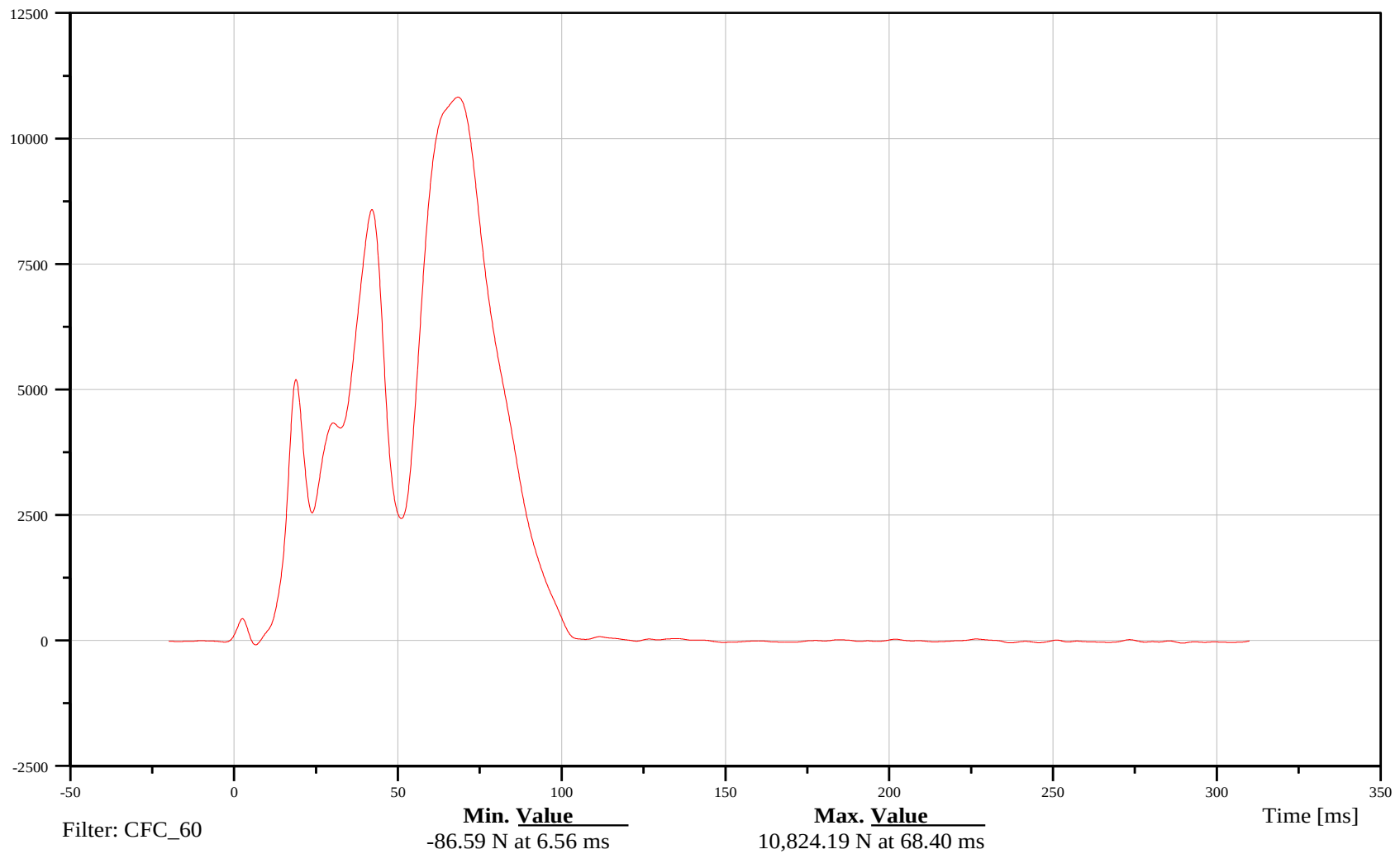
BARRIER 10-8 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR100800FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

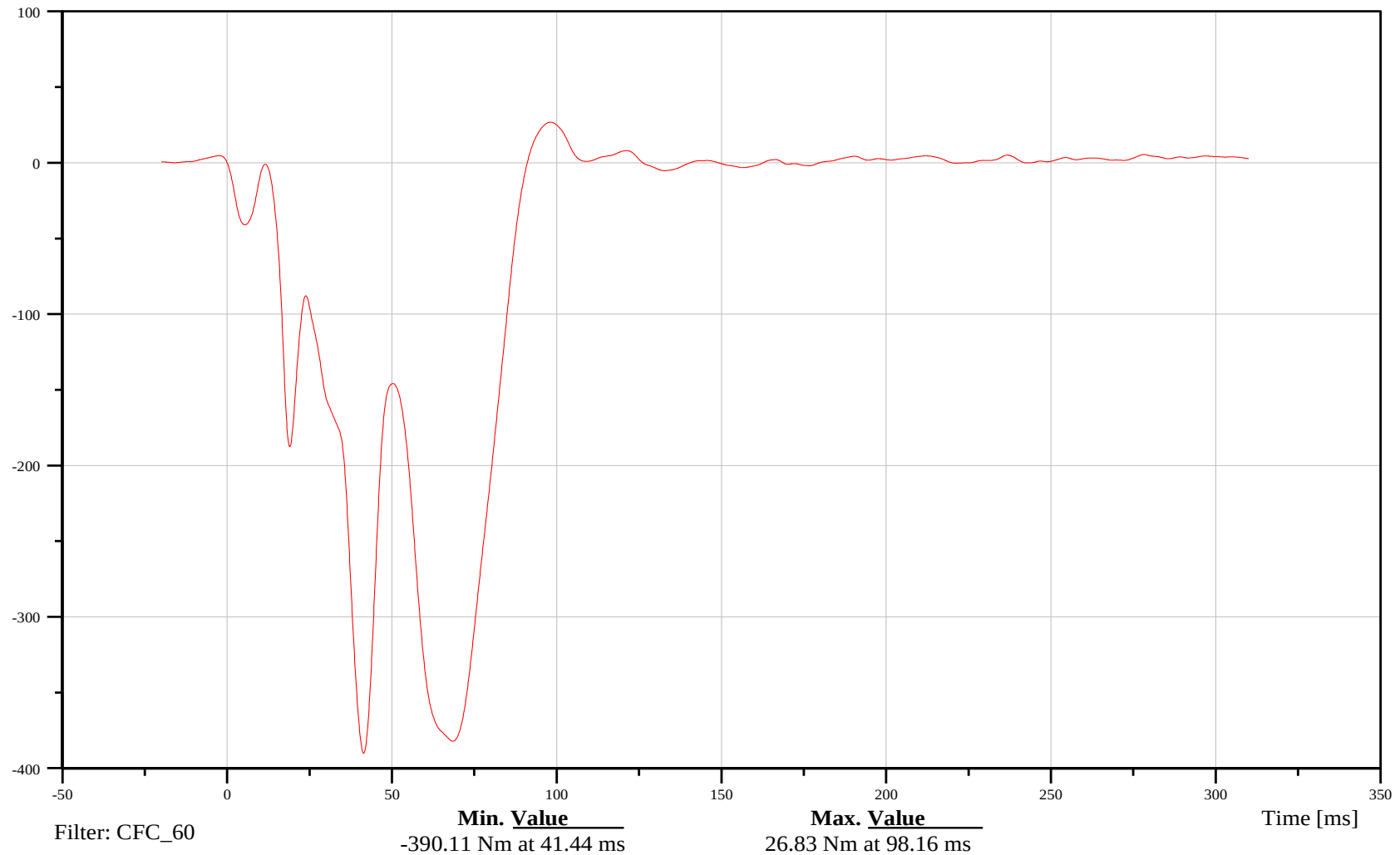
BARRIER 10-8 My

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR100800MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

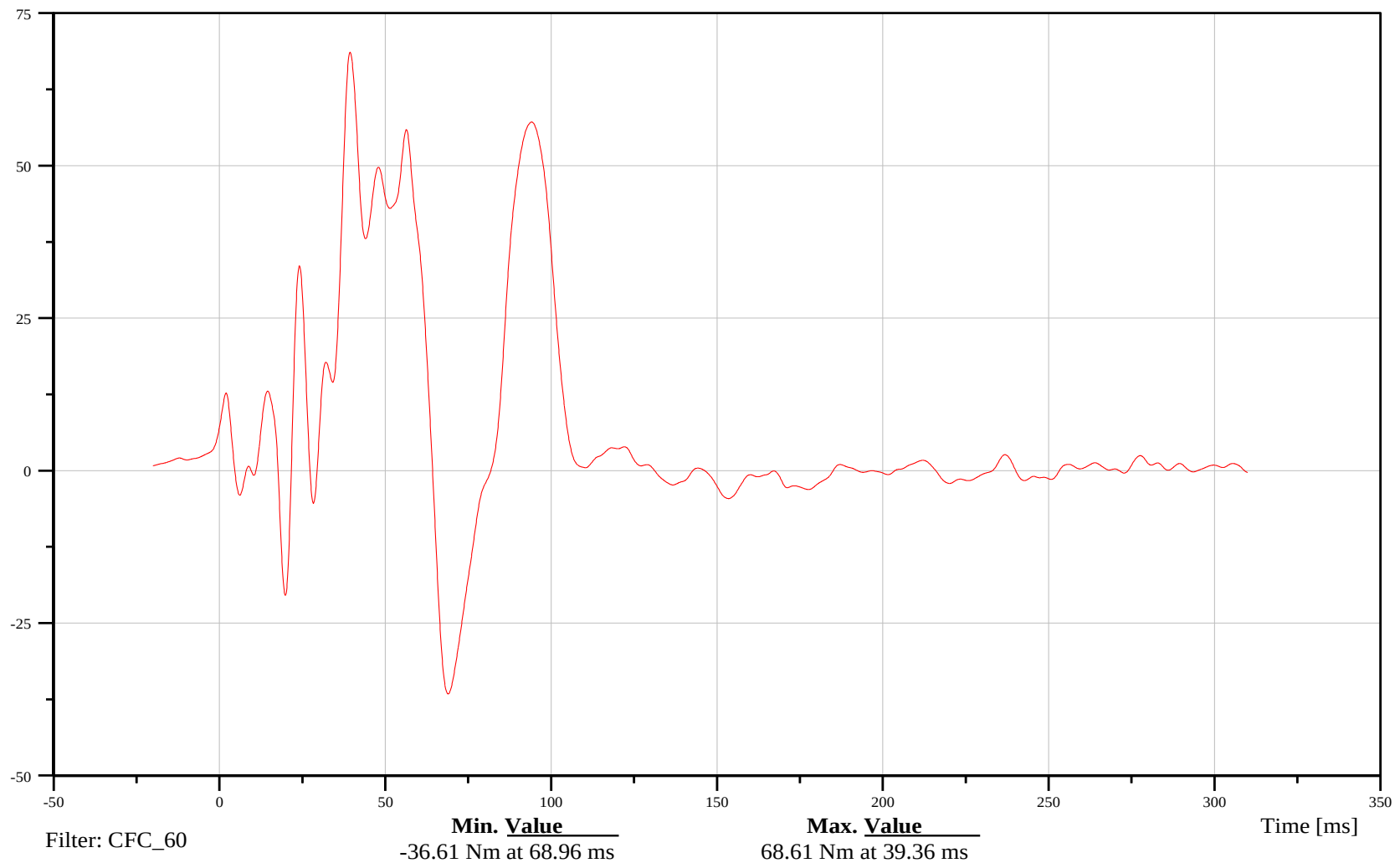
Date: 11/14/2013
Time: 15:28

BARRIER 10-8 Mz

Customer: VRTC
Test Number: 131114

B0FBAR100800MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

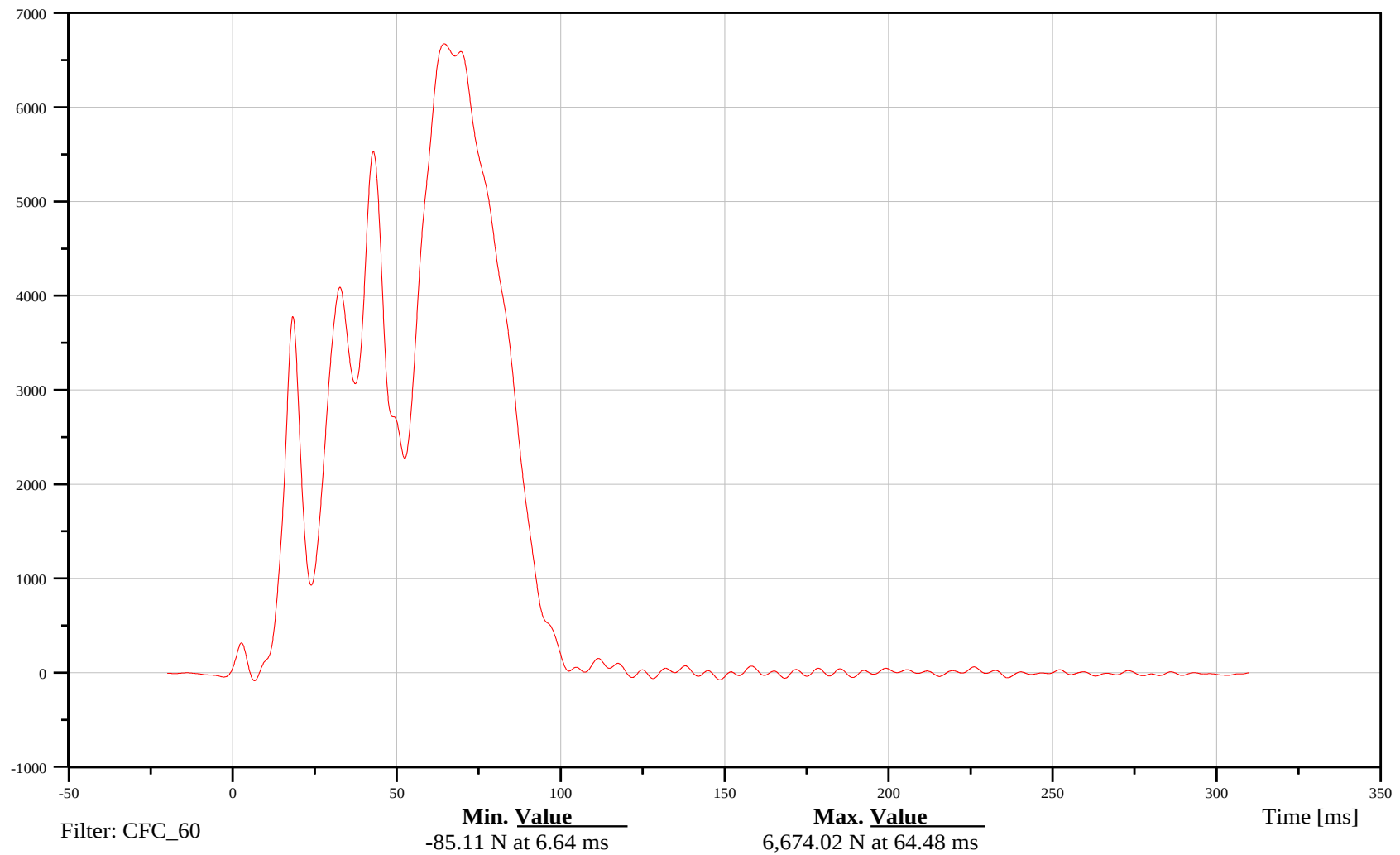
BARRIER 10-9 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR100900FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

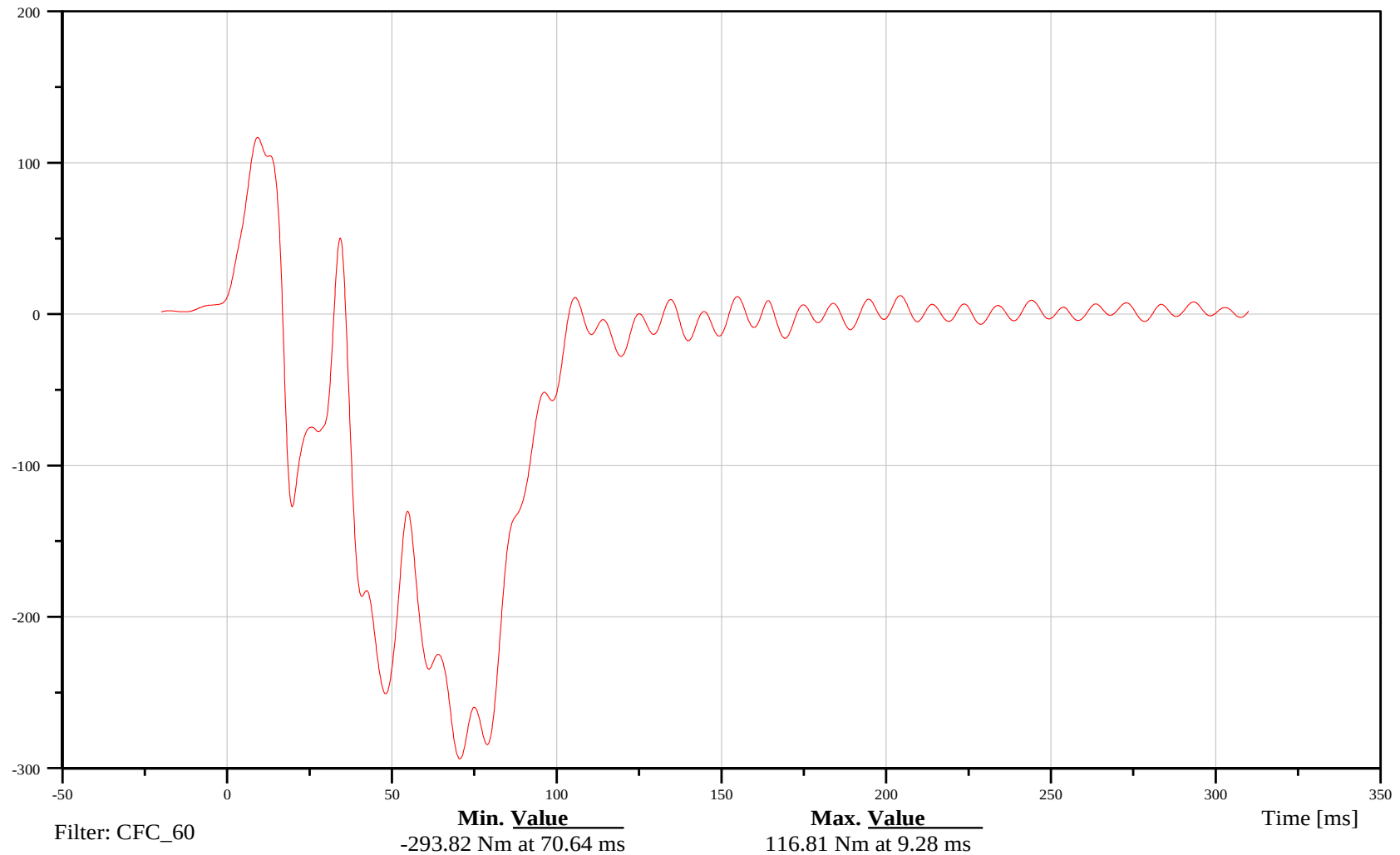
Date: 11/14/2013
Time: 15:28

BARRIER 10-9 My

Customer: VRTC
Test Number: 131114

B0FBAR100900MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

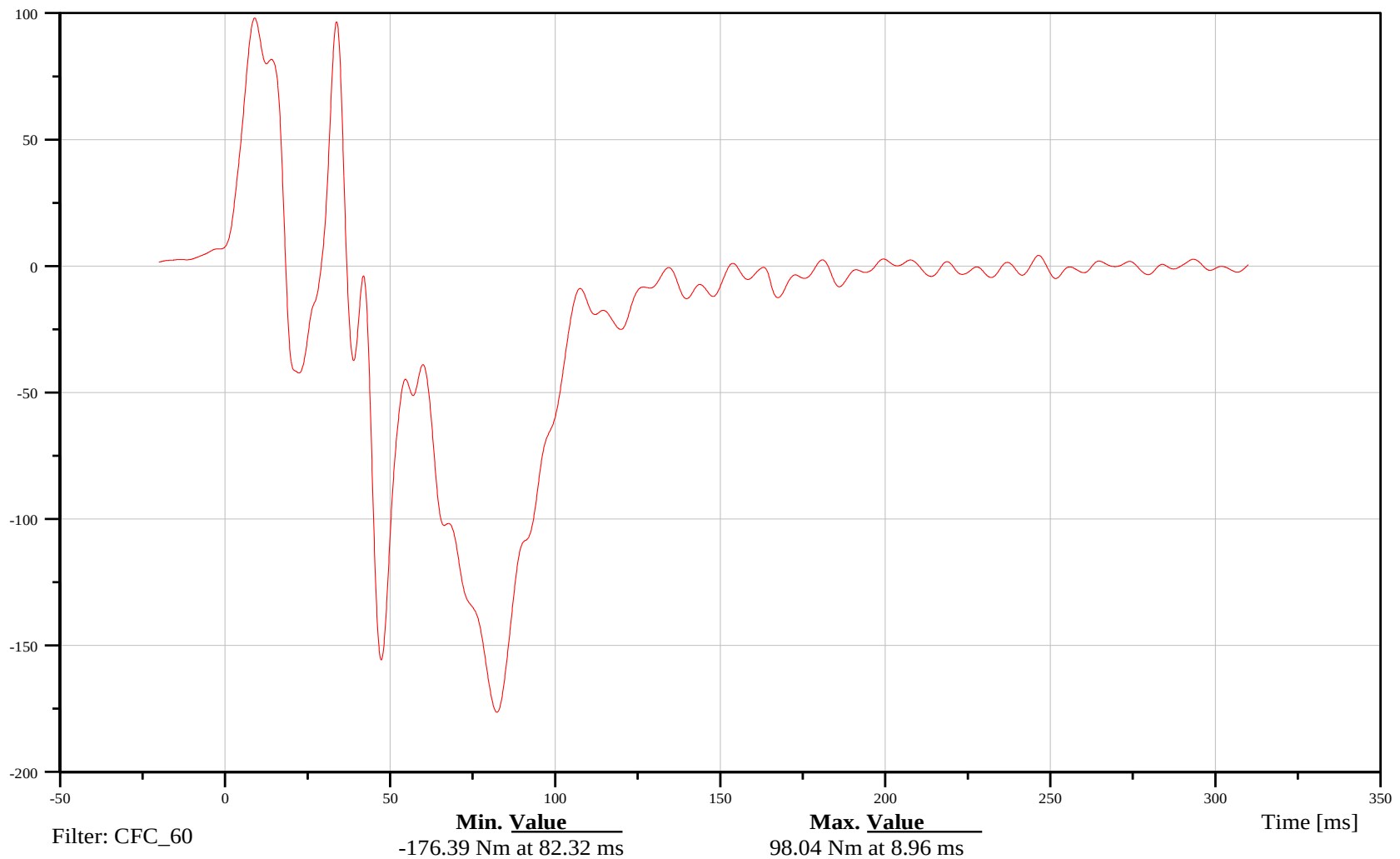
Date: 11/14/2013
Time: 15:28

BARRIER 10-9 Mz

Customer: VRTC
Test Number: 131114

B0FBAR100900MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

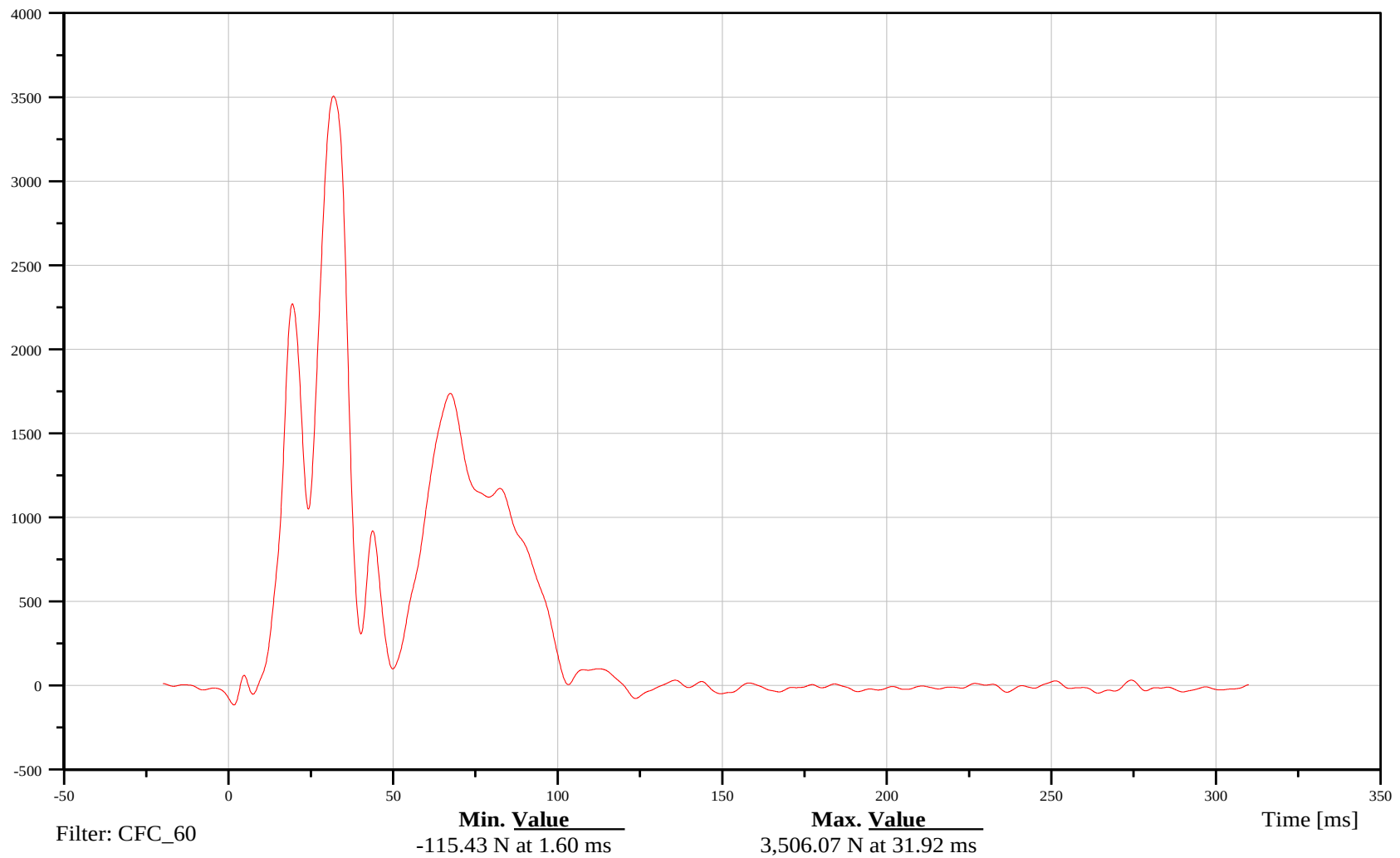
Date: 11/14/2013
Time: 15:28

BARRIER 10-10 FX

Customer: VRTC
Test Number: 131114

B0FBAR101000FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

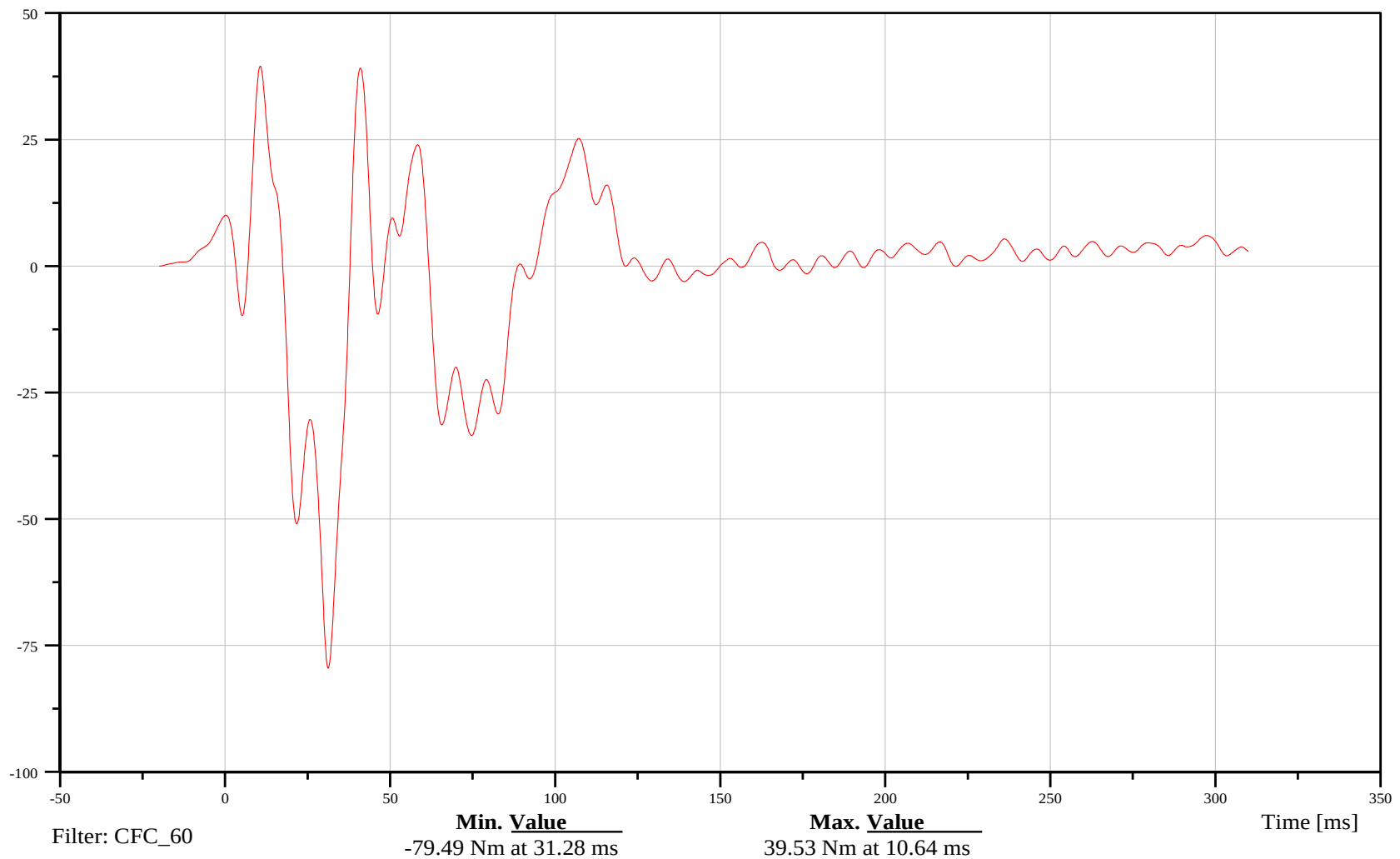
Date: 11/14/2013
Time: 15:28

BARRIER 10-10 My

Customer: VRTC
Test Number: 131114

B0FBAR101000MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

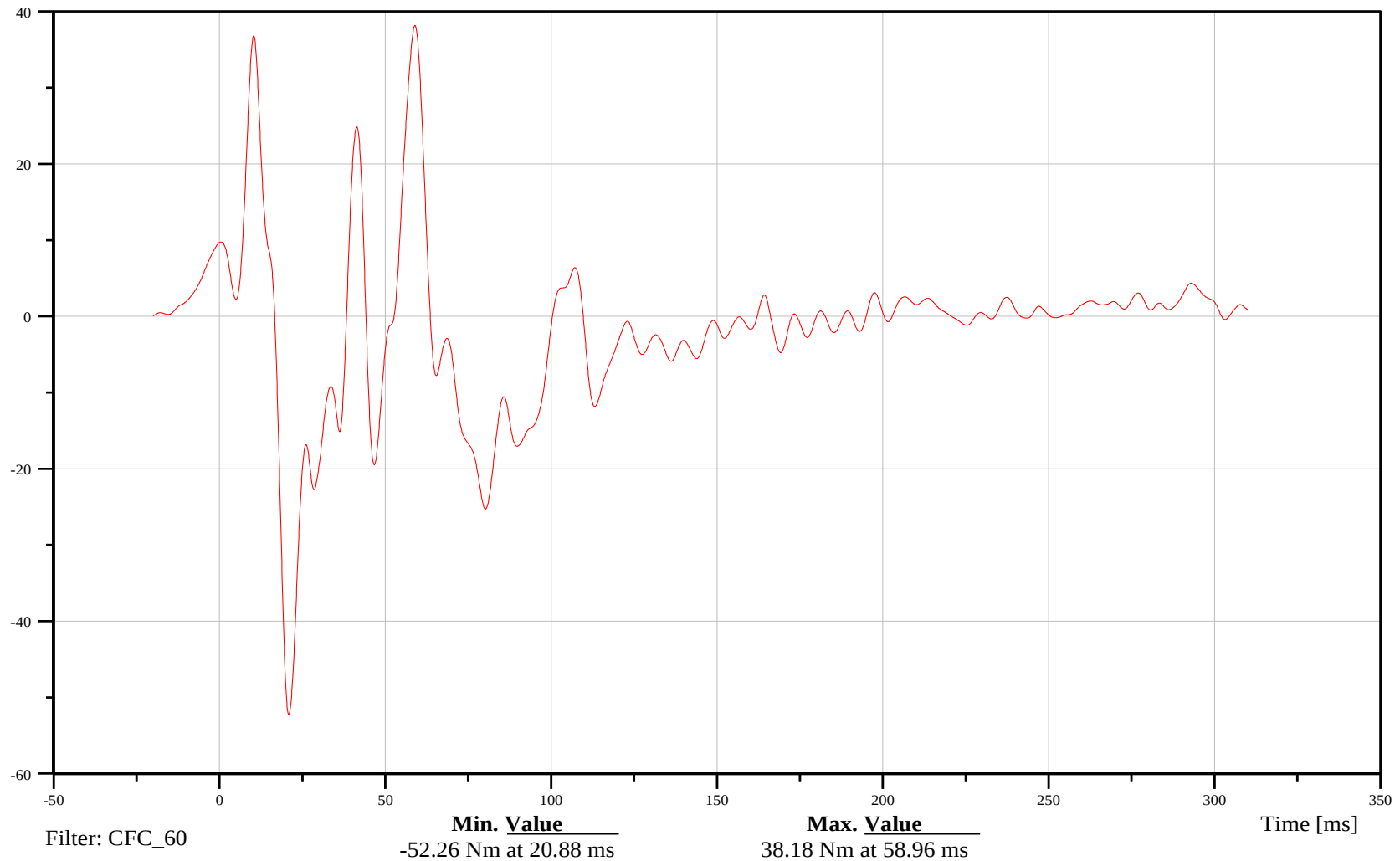
Date: 11/14/2013
Time: 15:28

BARRIER 10-10 Mz

Customer: VRTC
Test Number: 131114

B0FBAR101000MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

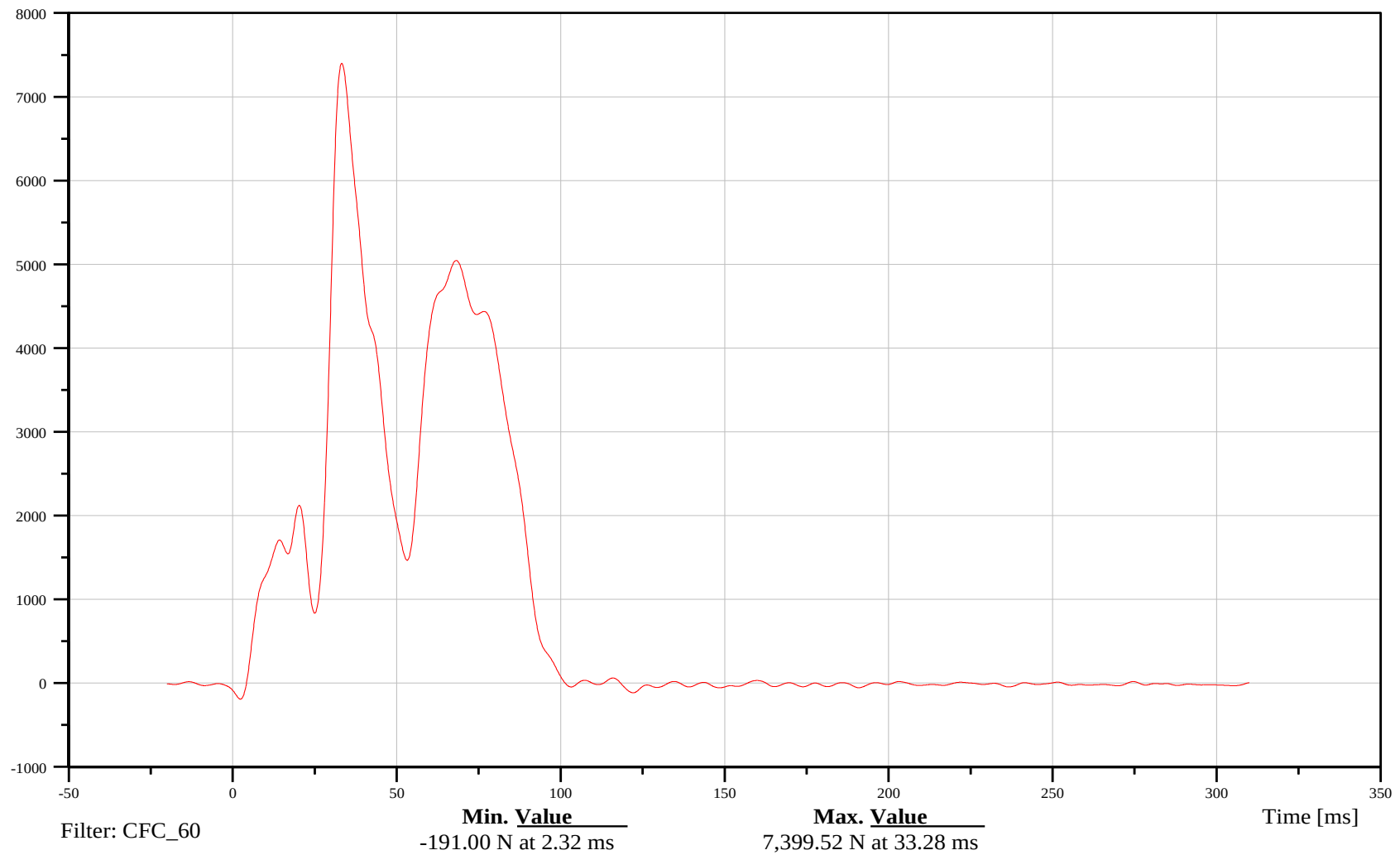
Date: 11/14/2013
Time: 15:28

BARRIER 10-11 FX

Customer: VRTC
Test Number: 131114

B0FBAR101100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

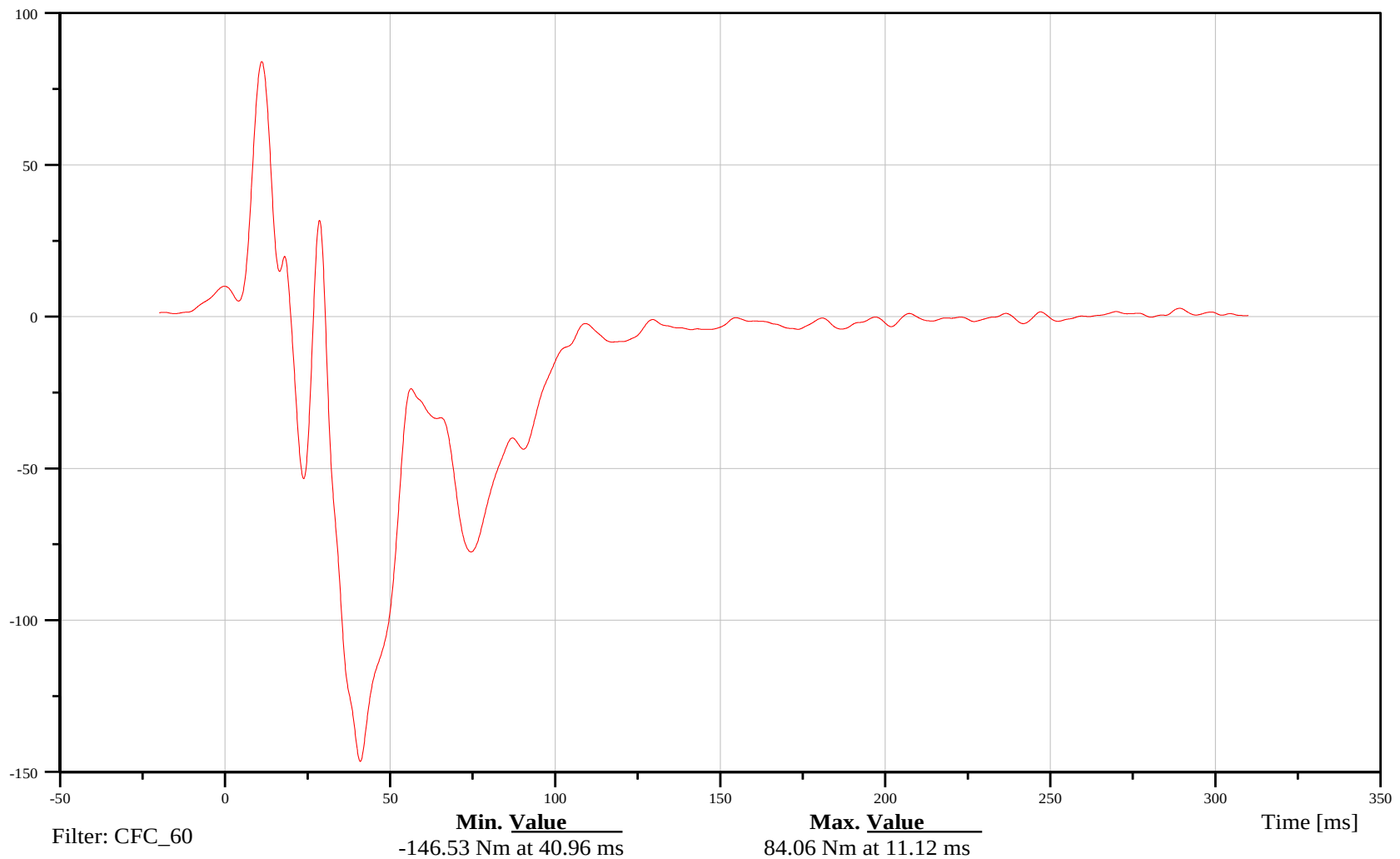
Date: 11/14/2013
Time: 15:28

BARRIER 10-11 My

Customer: VRTC
Test Number: 131114

B0FBAR101100MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

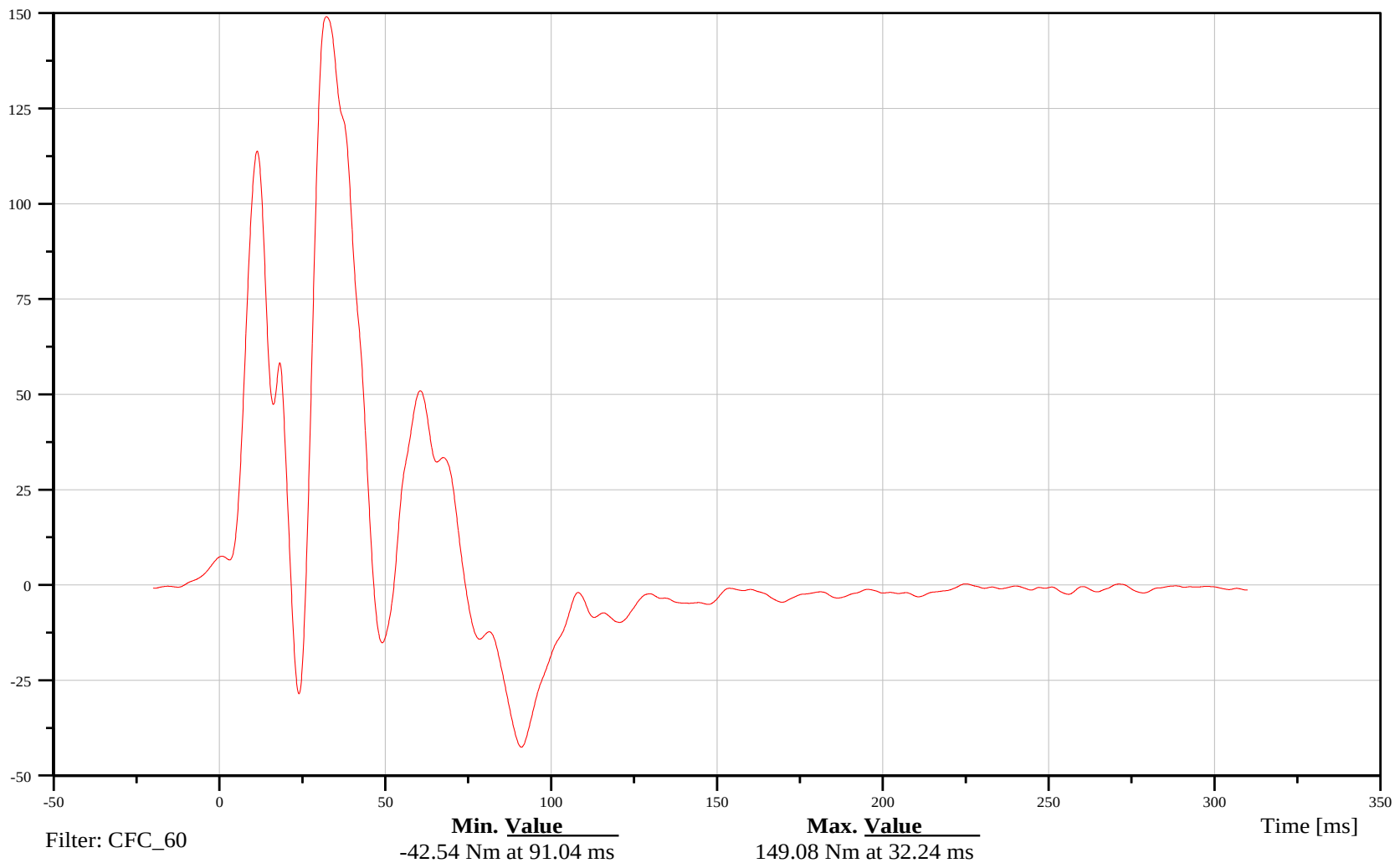
Date: 11/14/2013
Time: 15:28

BARRIER 10-11 Mz

Customer: VRTC
Test Number: 131114

B0FBAR101100MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

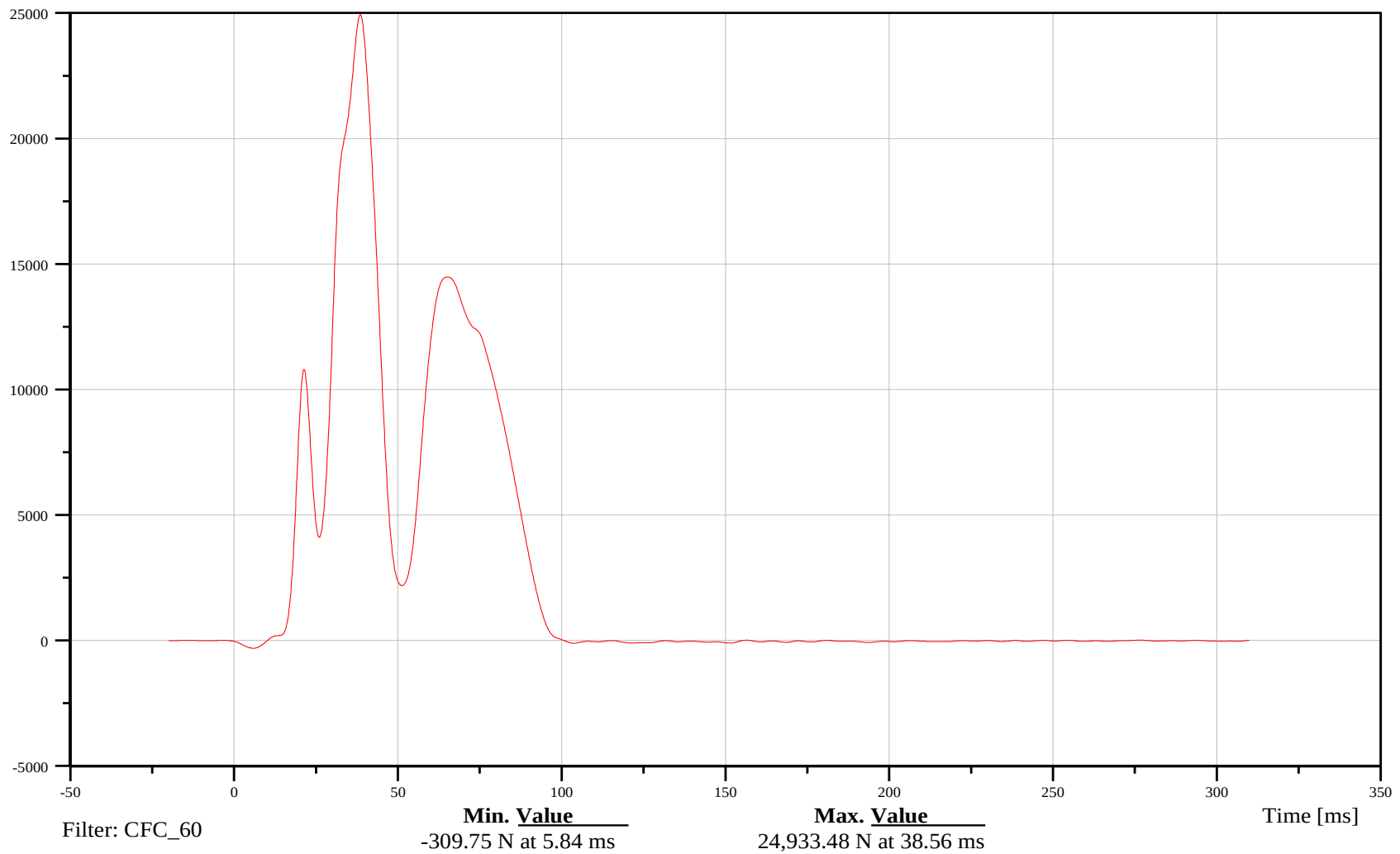
BARRIER 10-12 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR101200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

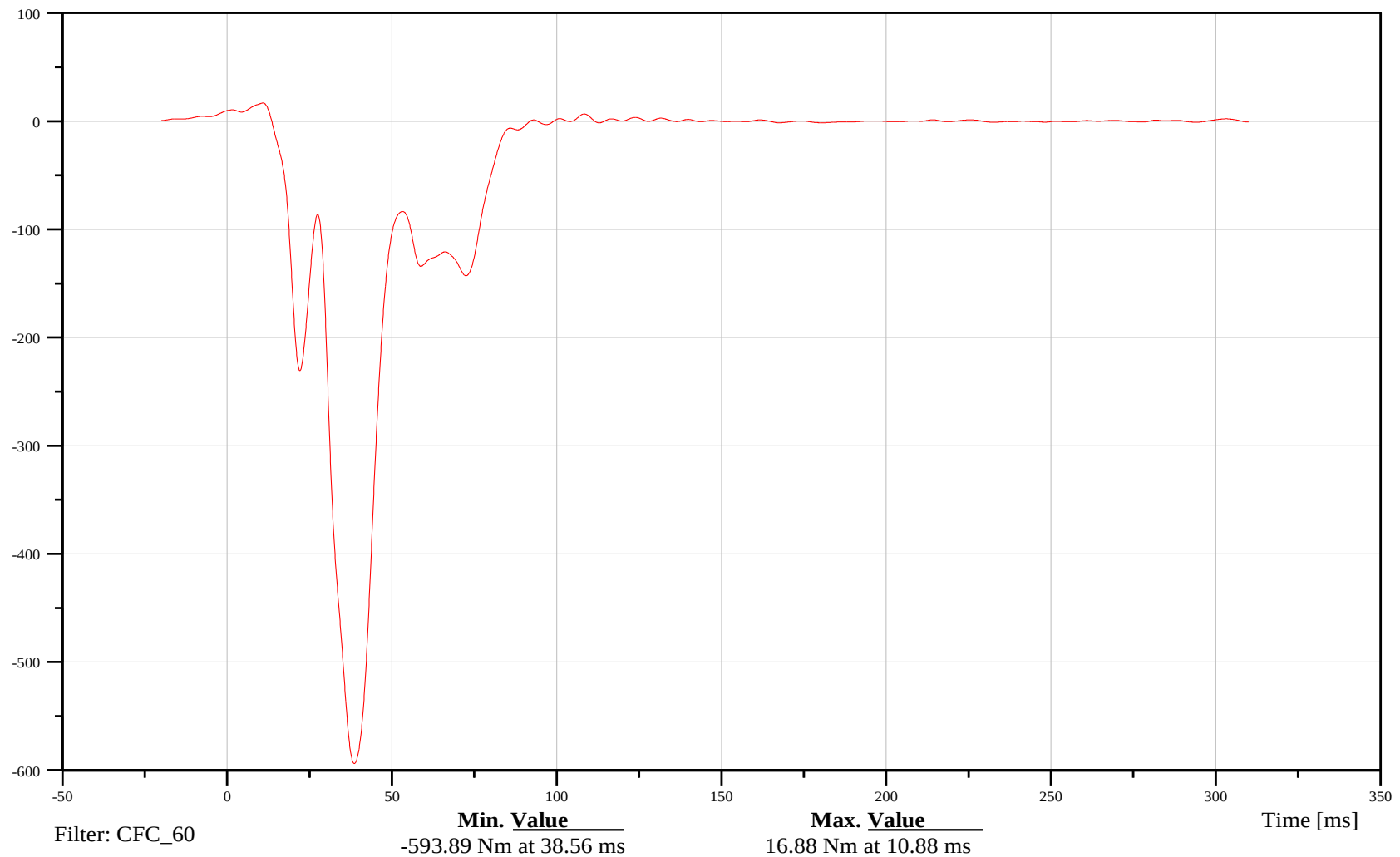
Date: 11/14/2013
Time: 15:28

BARRIER 10-12 My

Customer: VRTC
Test Number: 131114

B0FBAR101200MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

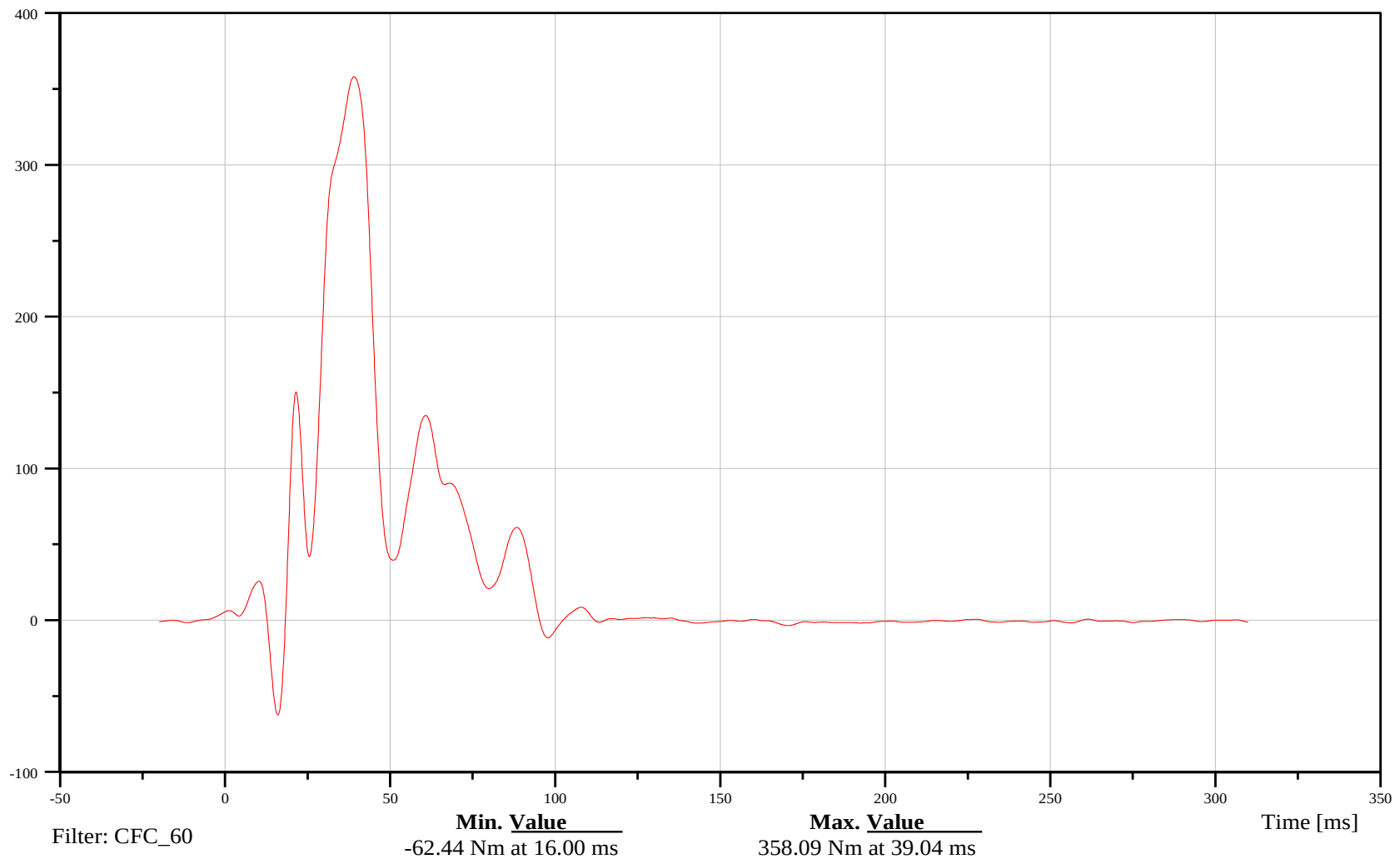
Date: 11/14/2013
Time: 15:28

BARRIER 10-12 Mz

Customer: VRTC
Test Number: 131114

B0FBAR101200MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

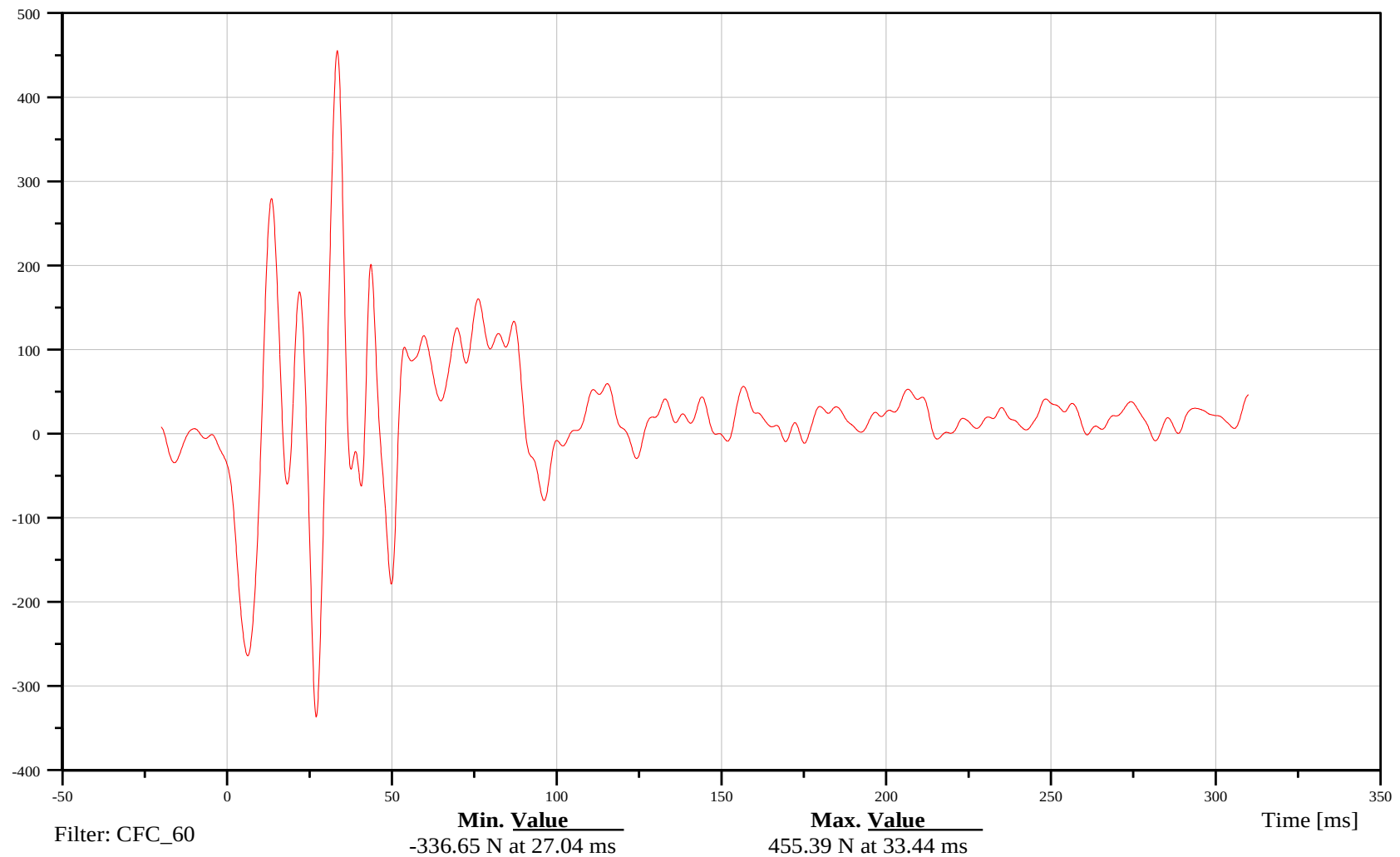
BARRIER 10-13 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR101300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

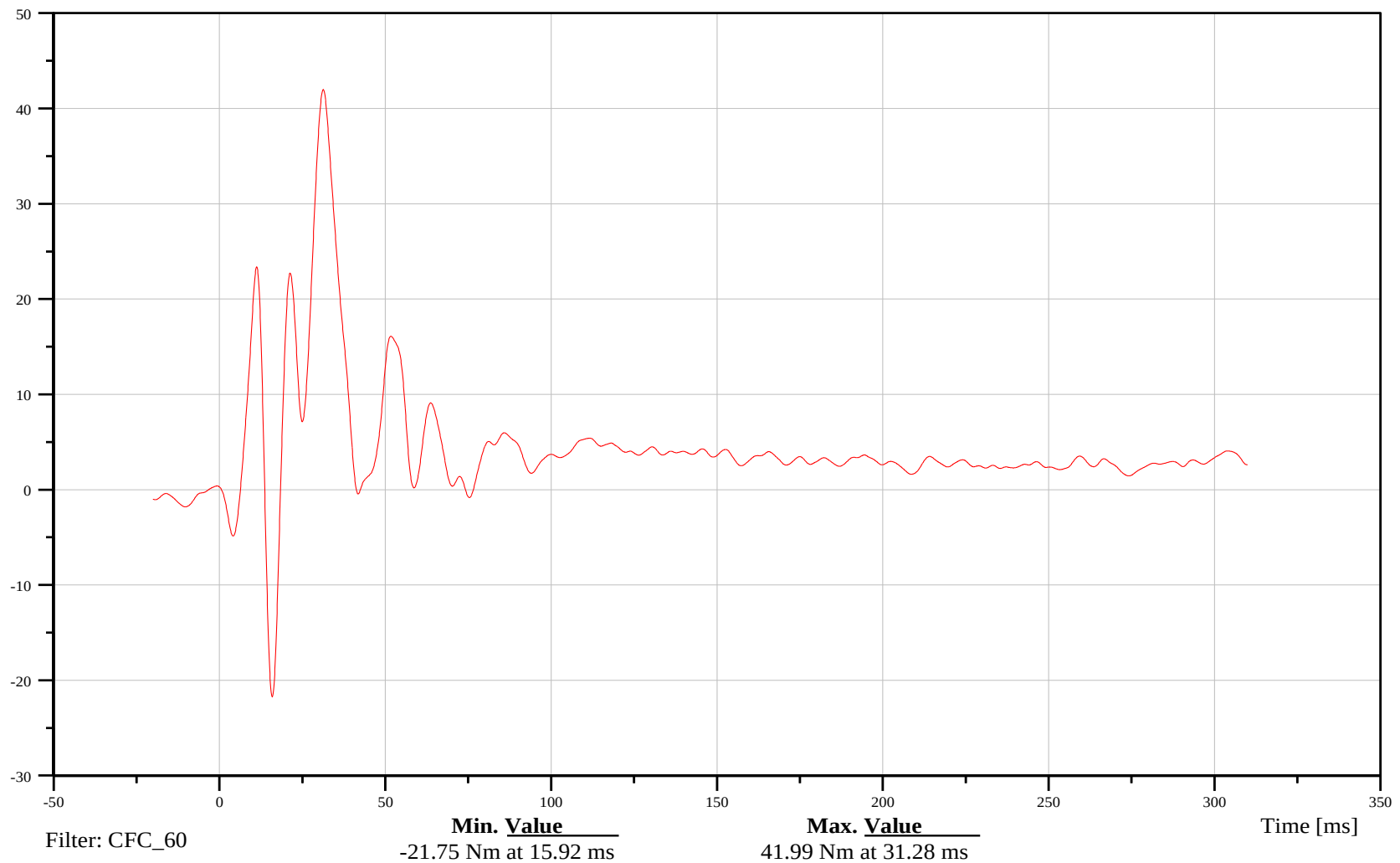
Date: 11/14/2013
Time: 15:28

BARRIER 10-13 My

Customer: VRTC
Test Number: 131114

B0FBAR101300MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

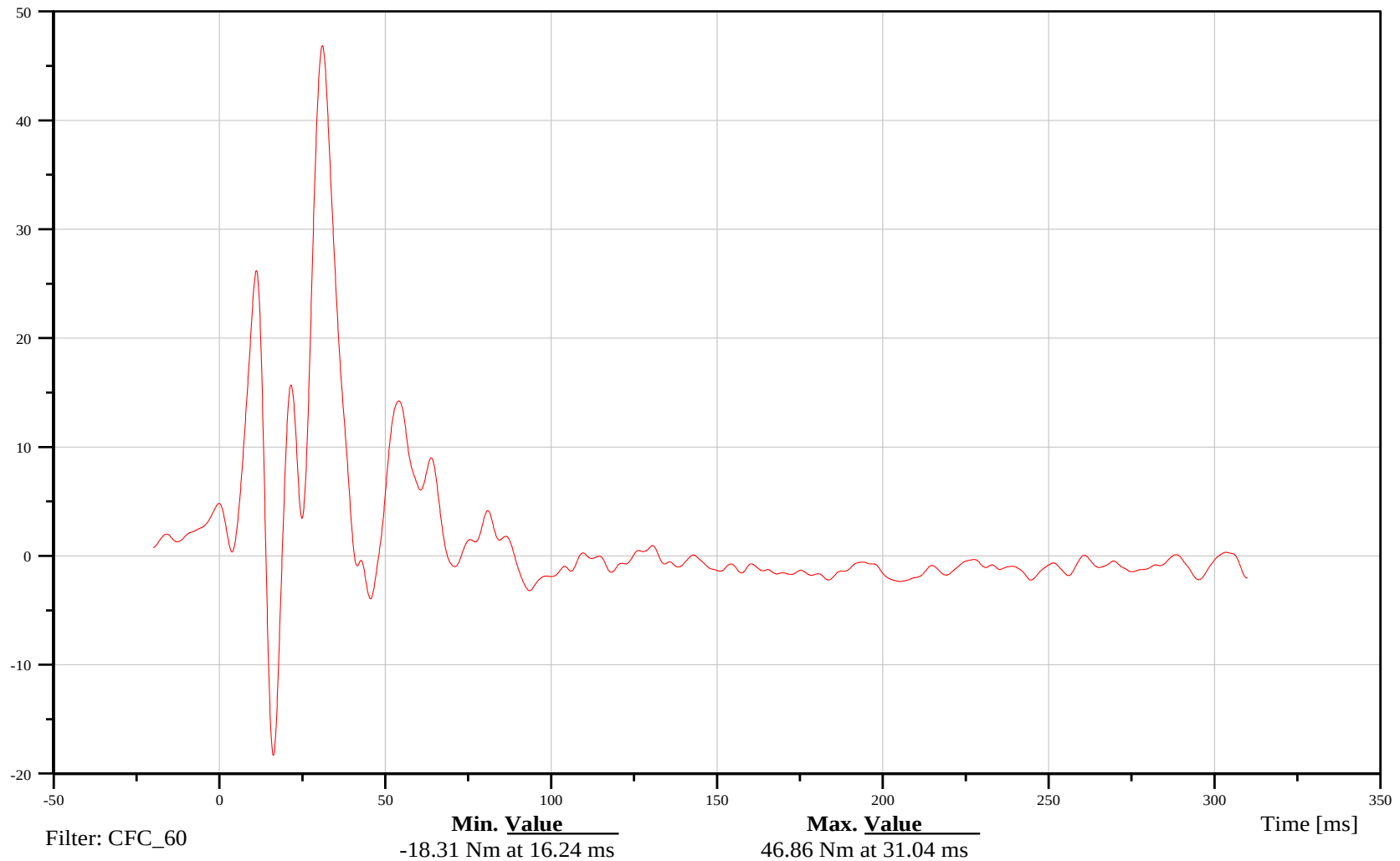
Date: 11/14/2013
Time: 15:28

BARRIER 10-13 Mz

Customer: VRTC
Test Number: 131114

B0FBAR101300MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

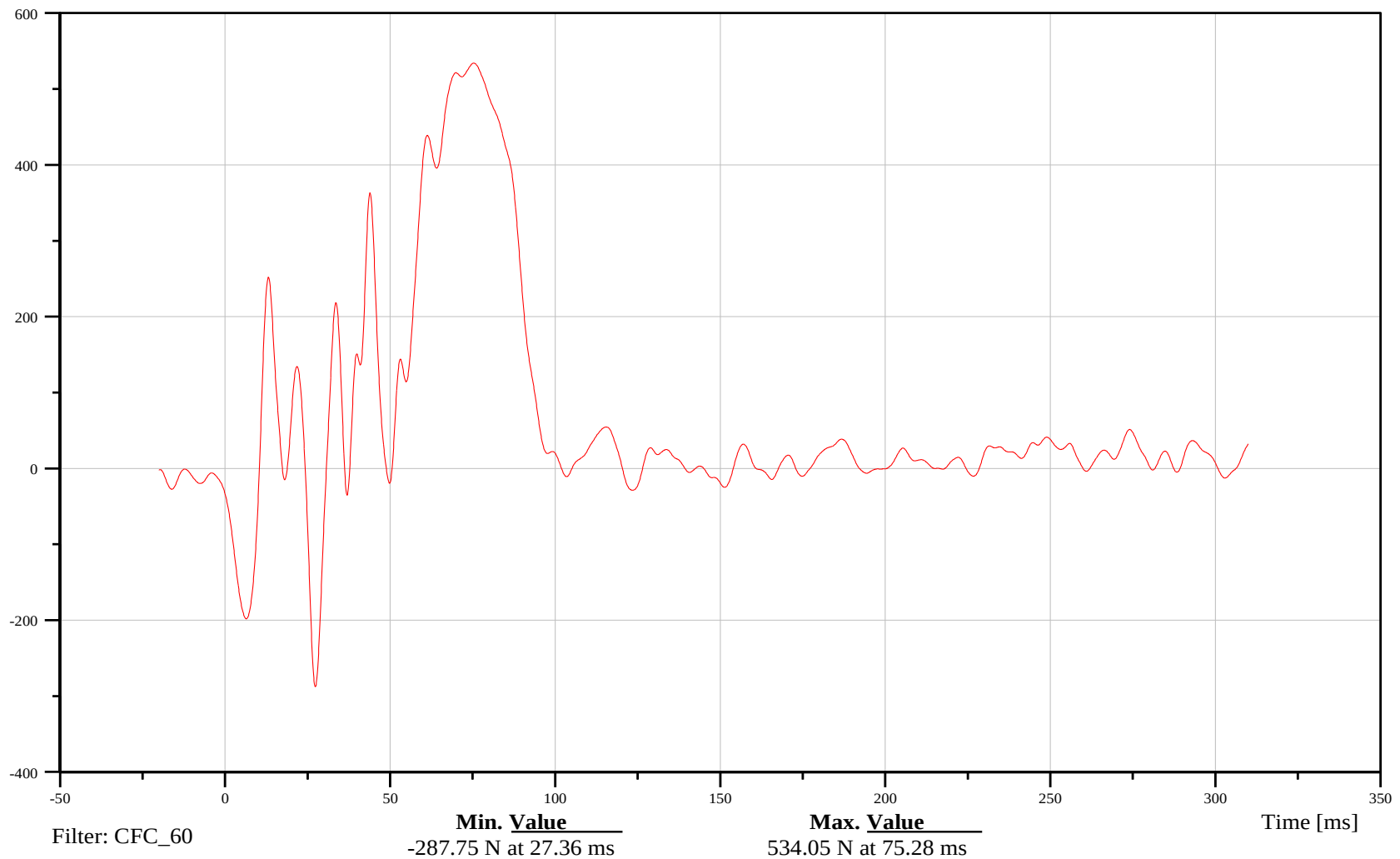
BARRIER 10-14 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR101400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

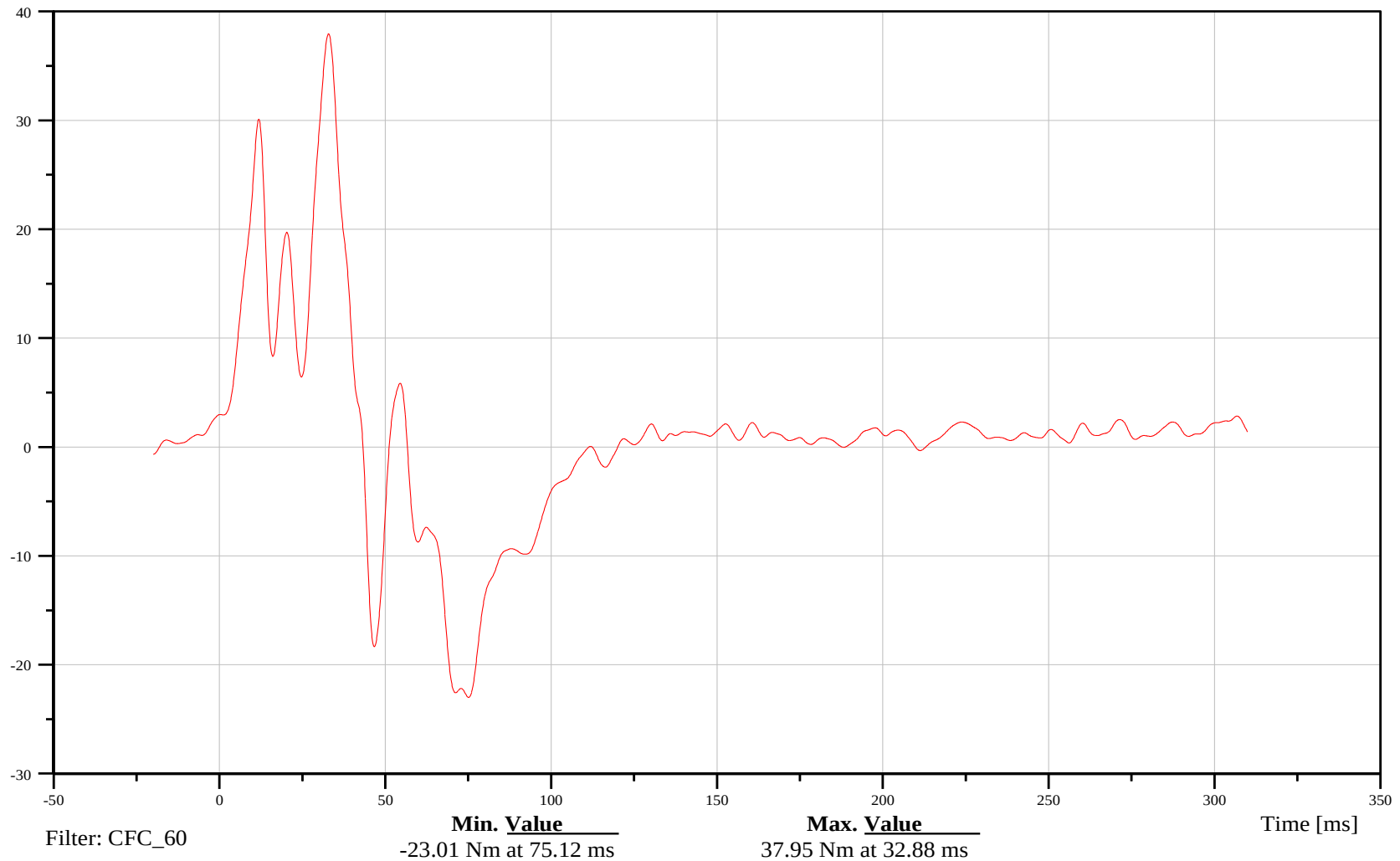
Date: 11/14/2013
Time: 15:28

BARRIER 10-14 My

Customer: VRTC
Test Number: 131114

B0FBAR101400MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

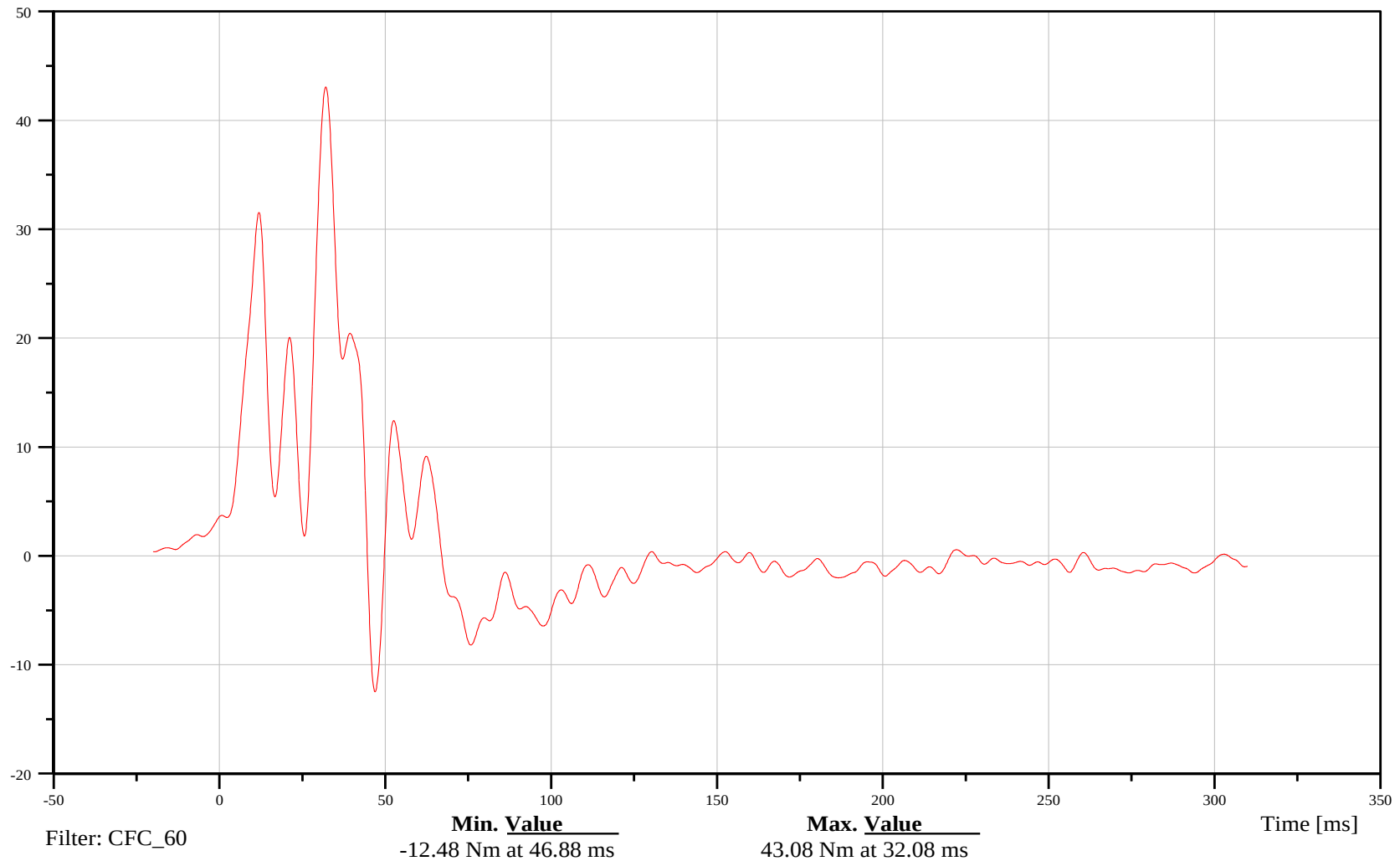
Date: 11/14/2013
Time: 15:28

BARRIER 10-14 Mz

Customer: VRTC
Test Number: 131114

B0FBAR101400MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

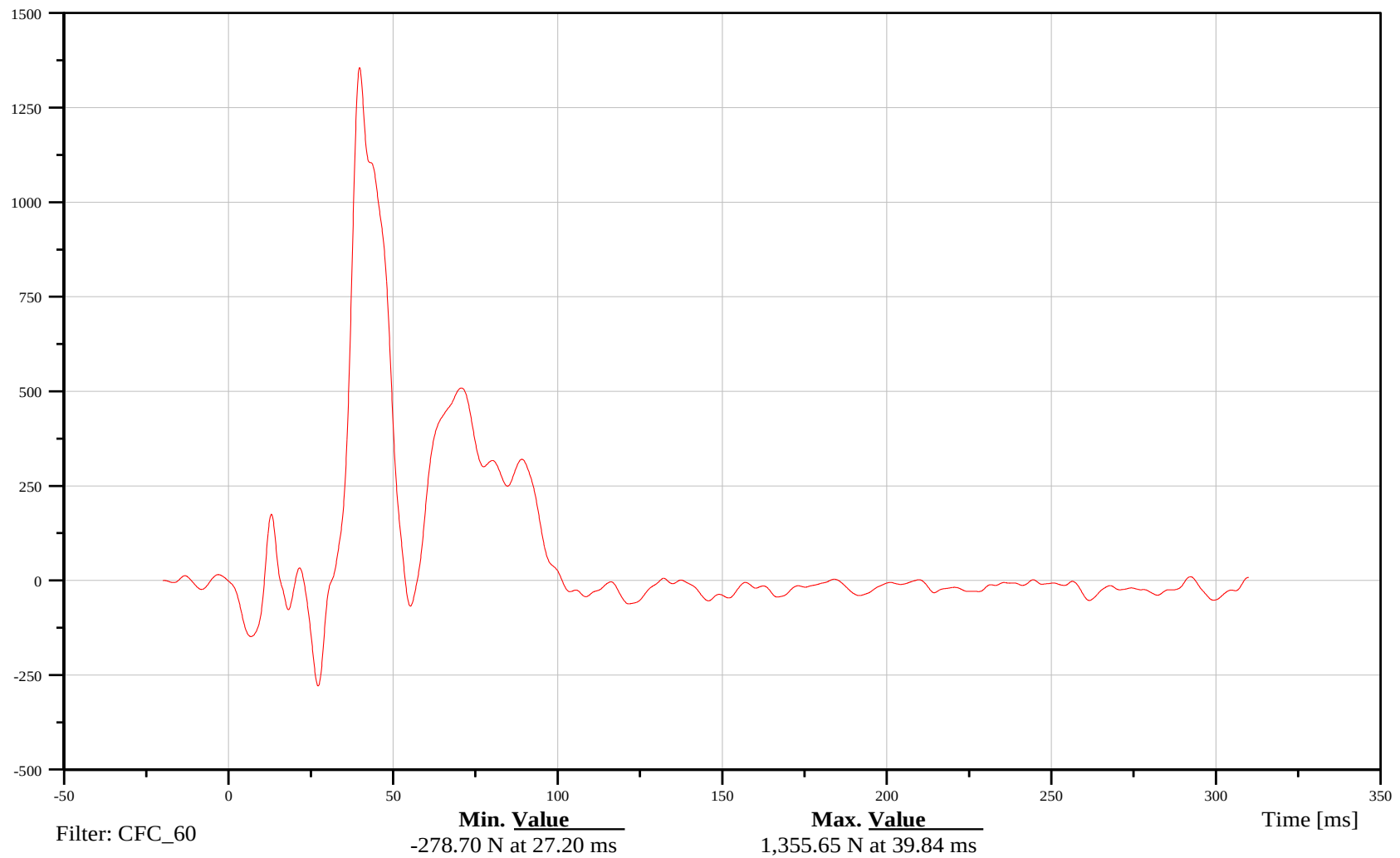
Date: 11/14/2013
Time: 15:28

BARRIER 10-15 FX

Customer: VRTC
Test Number: 131114

B0FBAR101500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

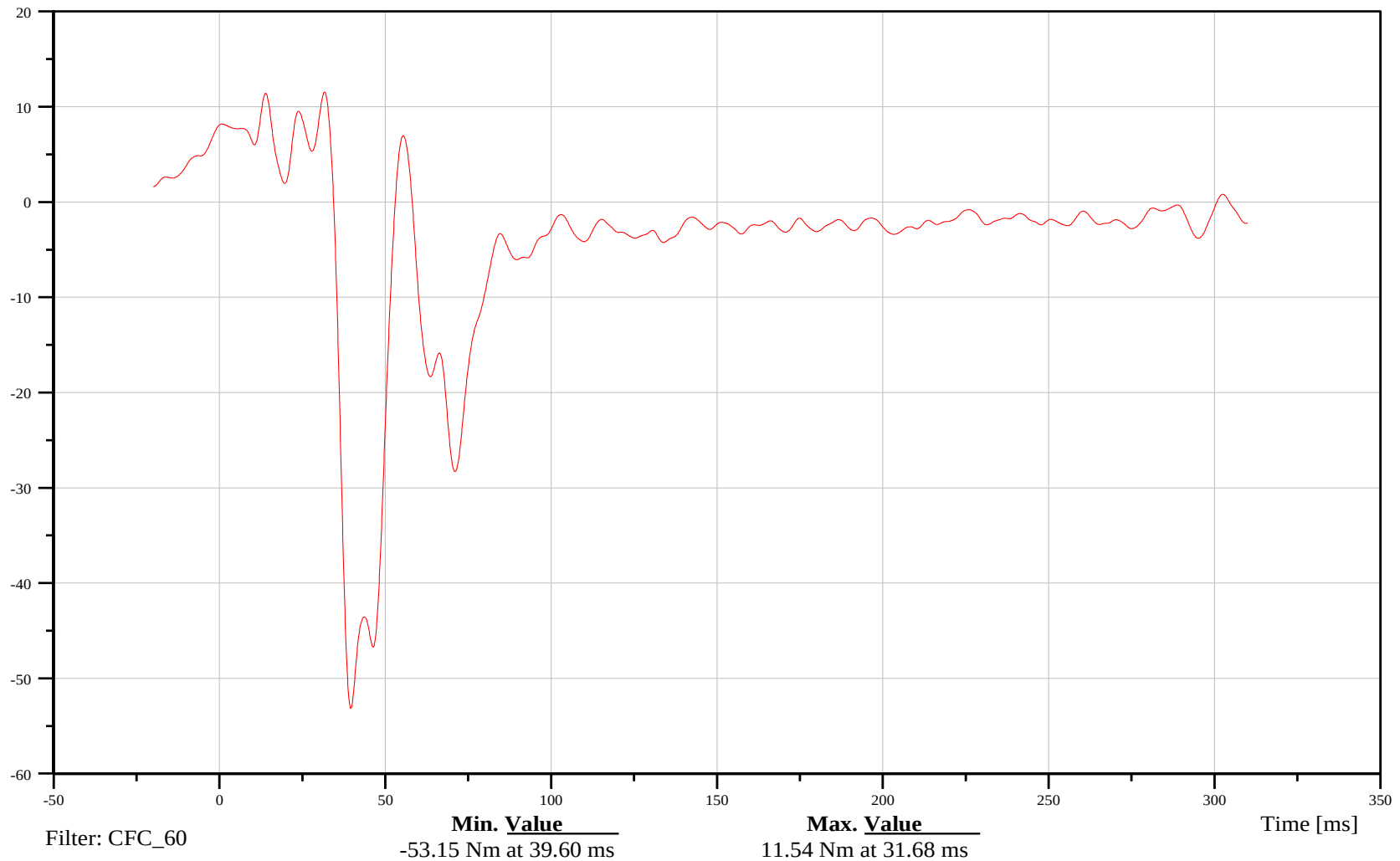
Date: 11/14/2013
Time: 15:28

BARRIER 10-15 My

Customer: VRTC
Test Number: 131114

B0FBAR101500MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

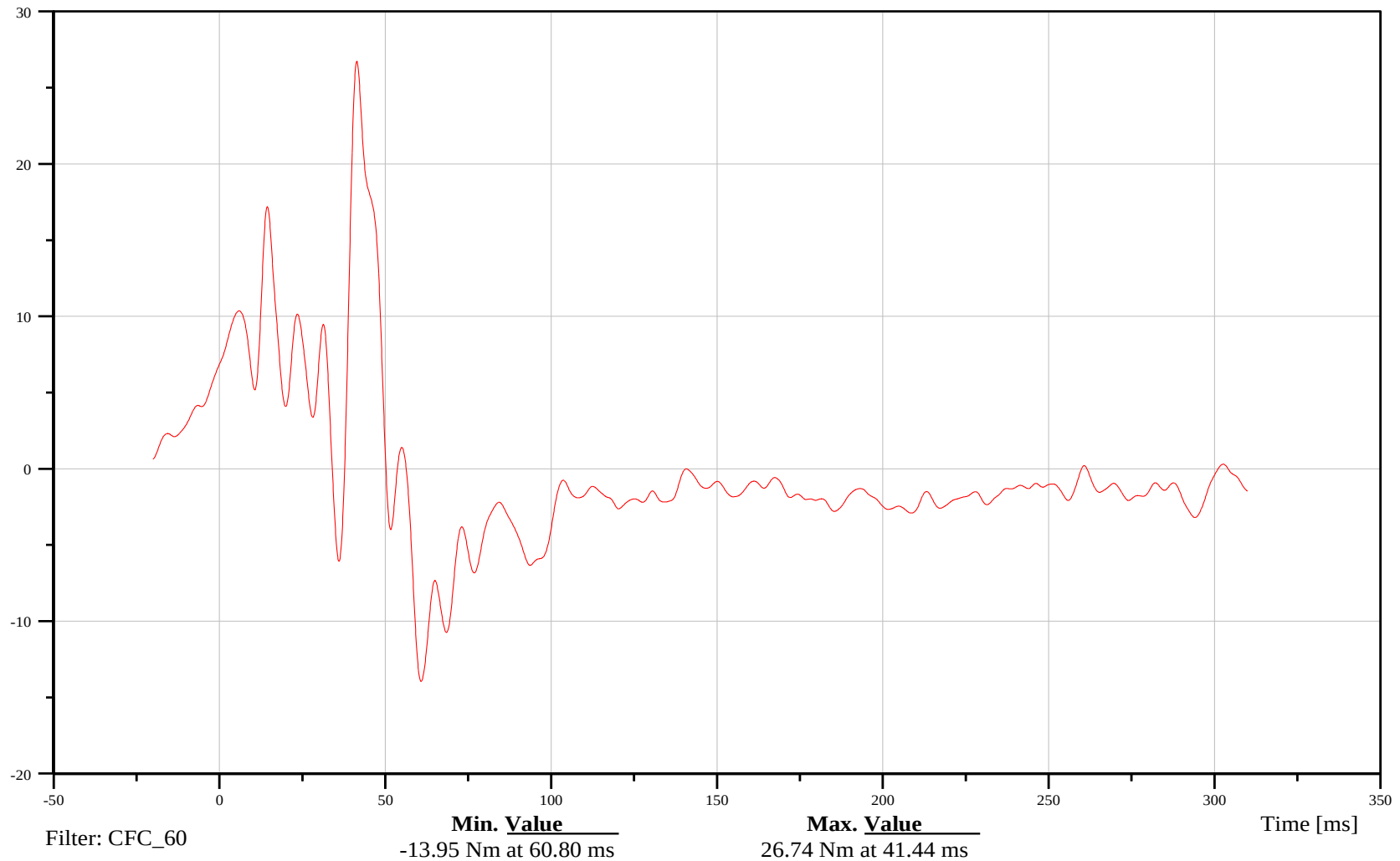
Date: 11/14/2013
Time: 15:28

BARRIER 10-15 Mz

Customer: VRTC
Test Number: 131114

B0FBAR101500MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

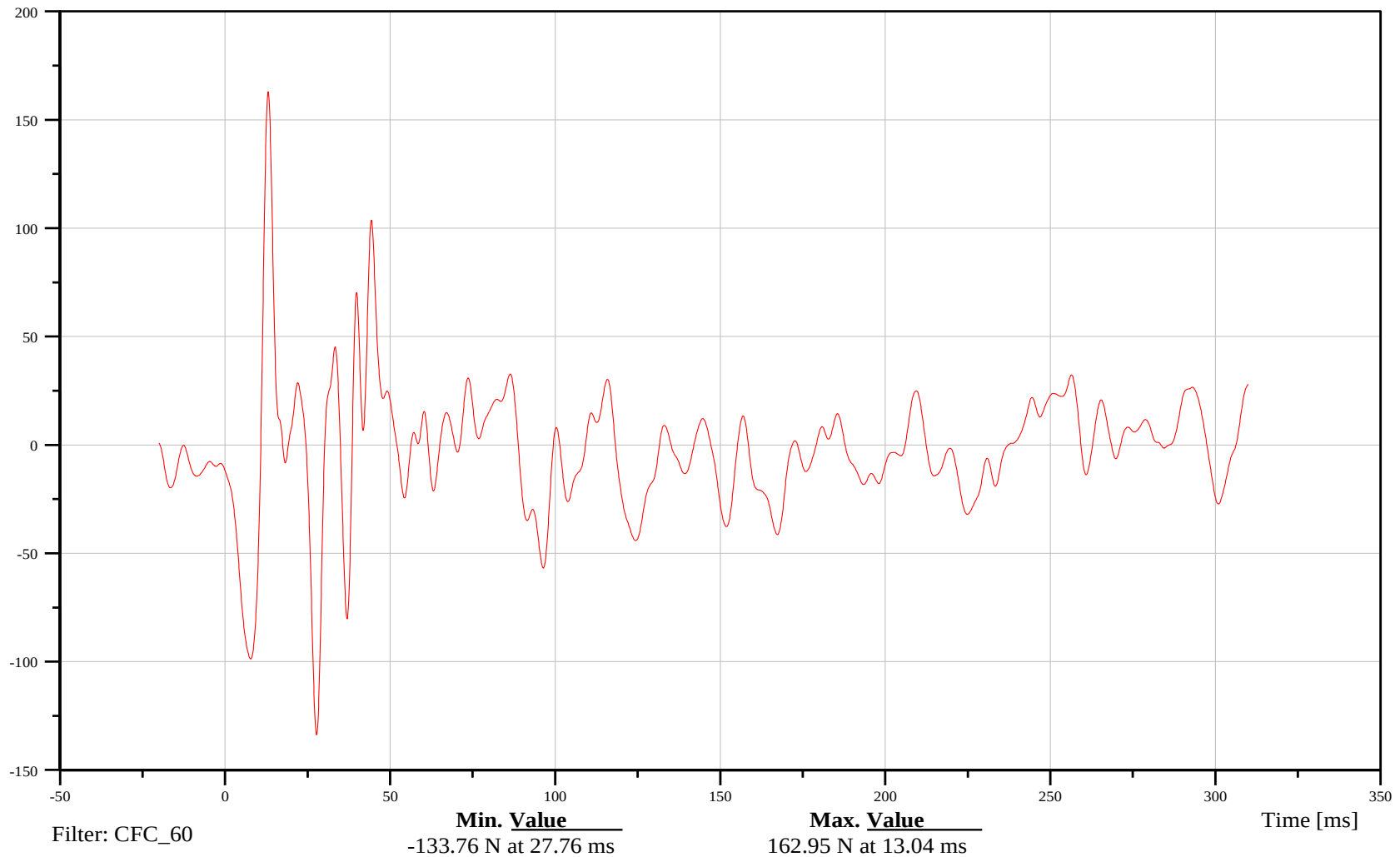
Date: 11/14/2013
Time: 15:28

BARRIER 10-16 FX

Customer: VRTC
Test Number: 131114

B0FBAR101600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

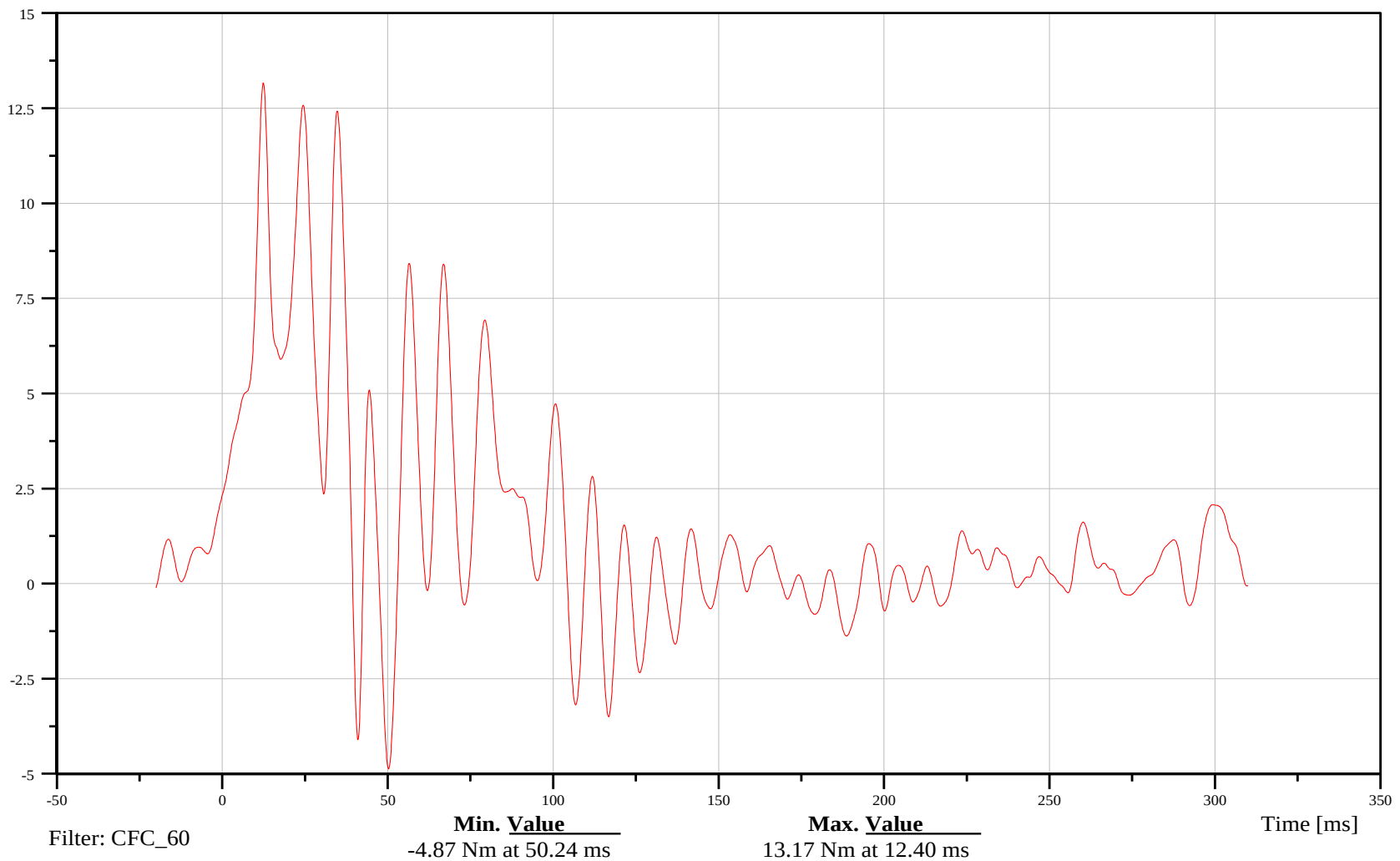
Date: 11/14/2013
Time: 15:28

BARRIER 10-16 My

Customer: VRTC
Test Number: 131114

B0FBAR101600MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

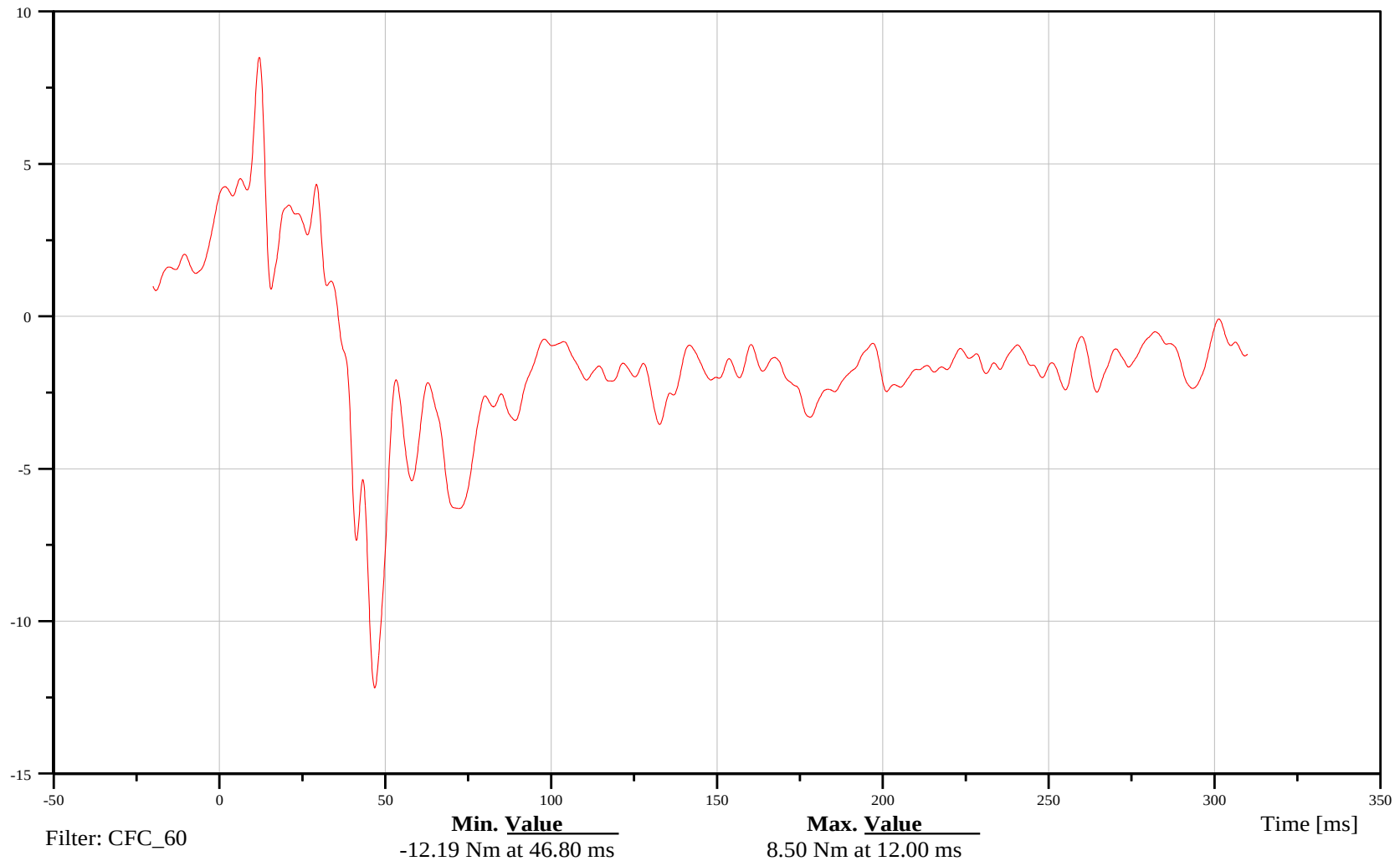
Date: 11/14/2013
Time: 15:28

BARRIER 10-16 Mz

Customer: VRTC
Test Number: 131114

B0FBAR101600MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

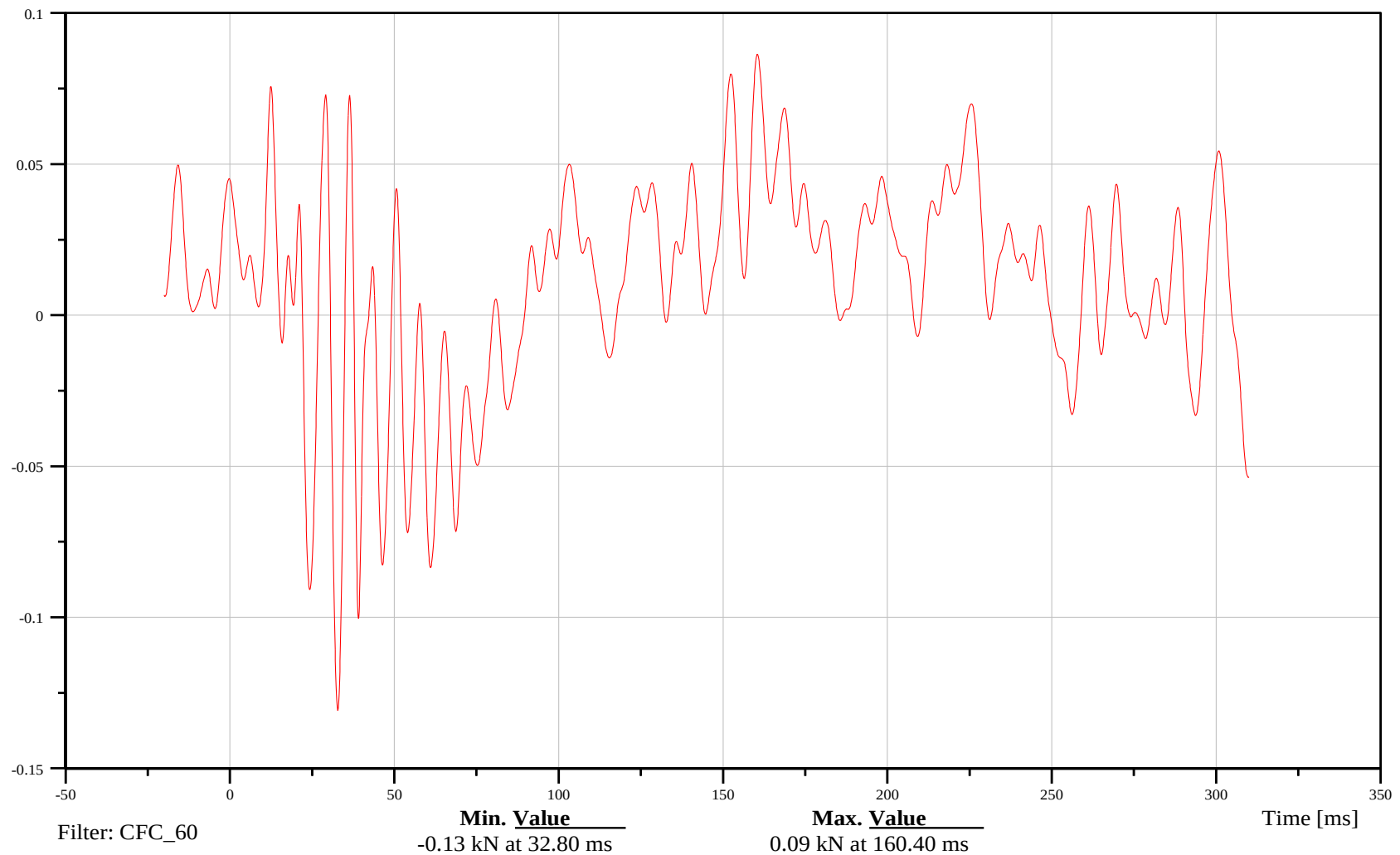
Date: 11/14/2013
Time: 15:28

BARRIER 11-1

Customer: VRTC
Test Number: 131114

B0FBAR110100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

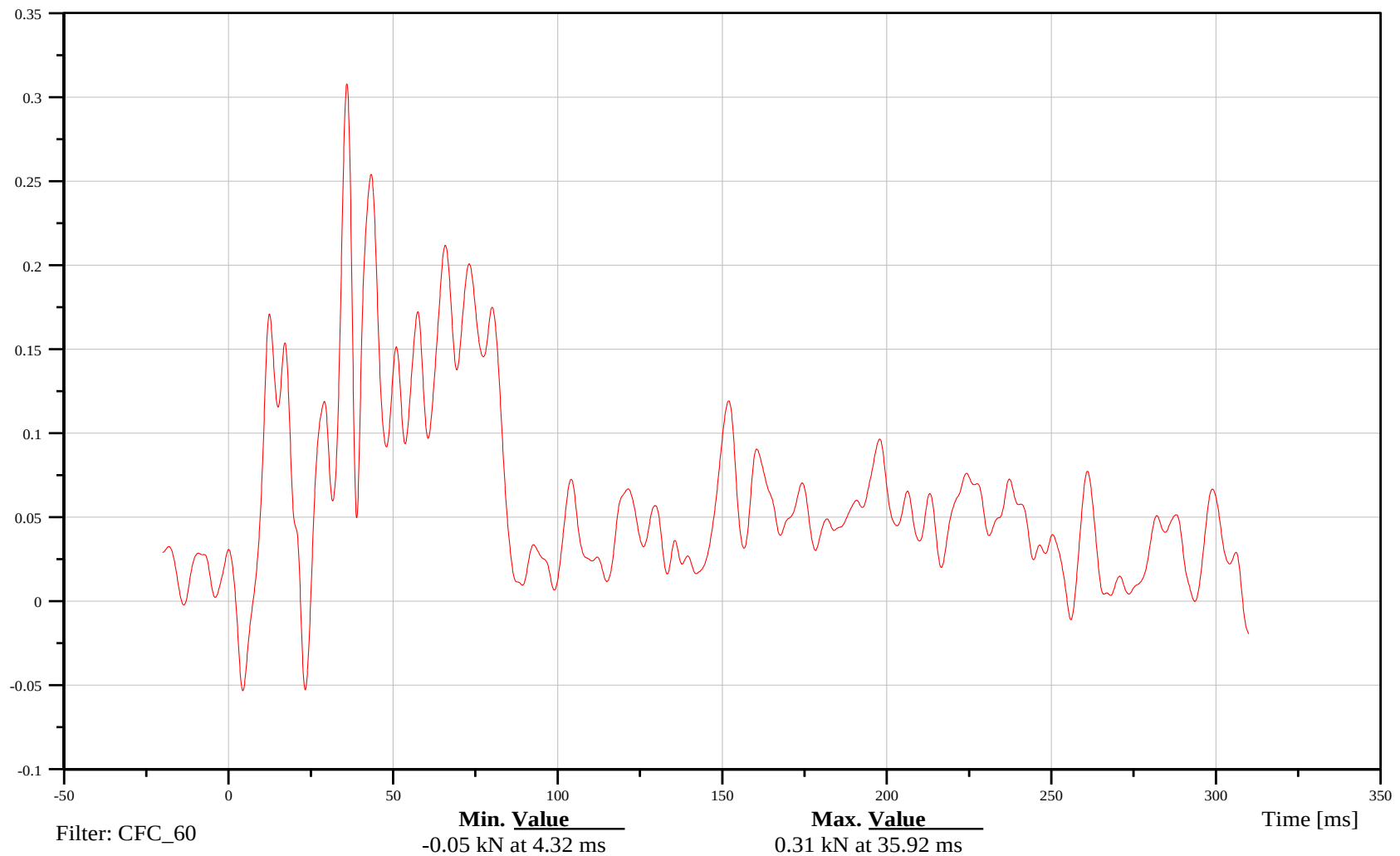
Date: 11/14/2013
Time: 15:28

BARRIER 11-3

Customer: VRTC
Test Number: 131114

B0FBAR110200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

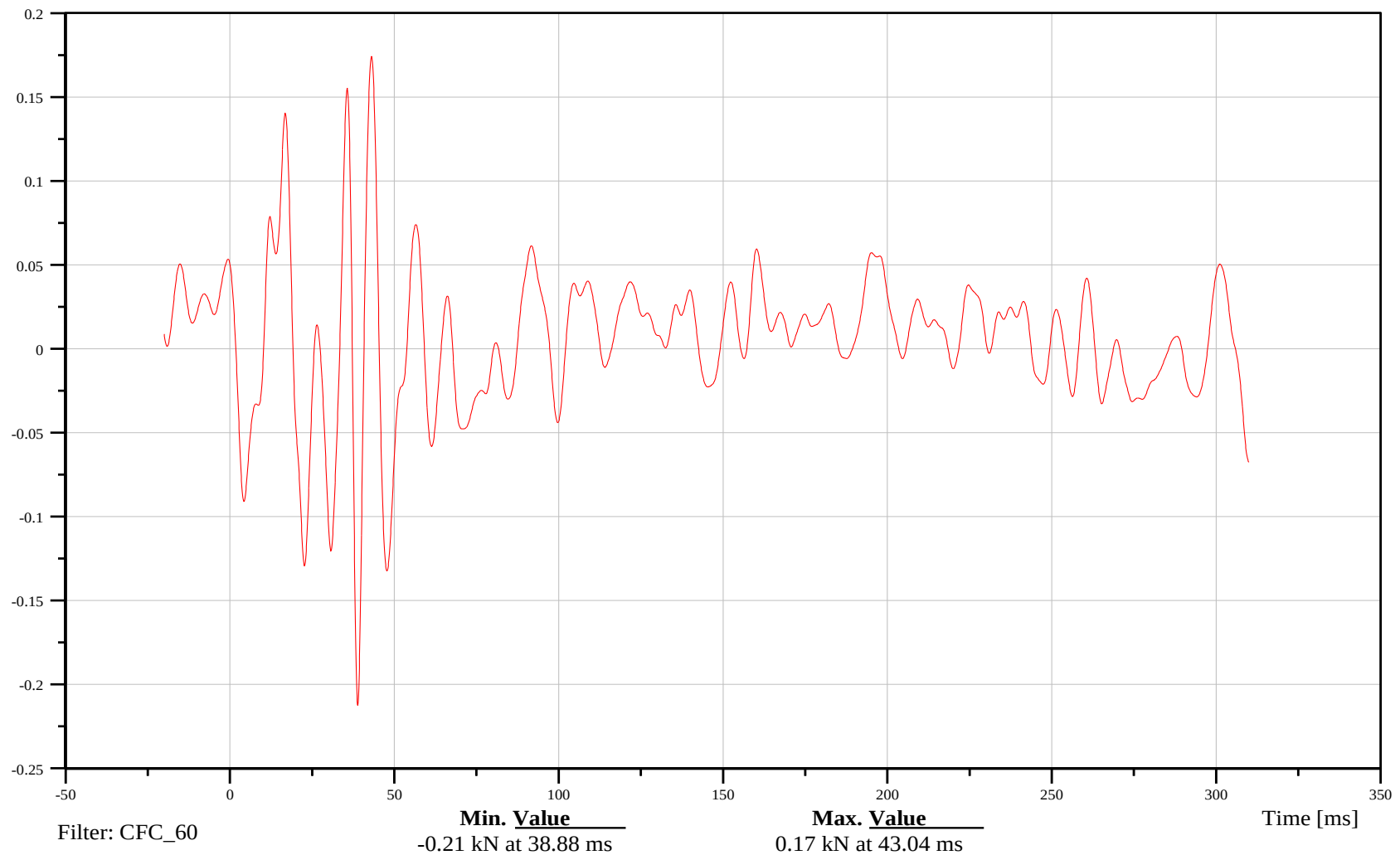
Date: 11/14/2013
Time: 15:28

BARRIER 11-2

Customer: VRTC
Test Number: 131114

B0FBAR110300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

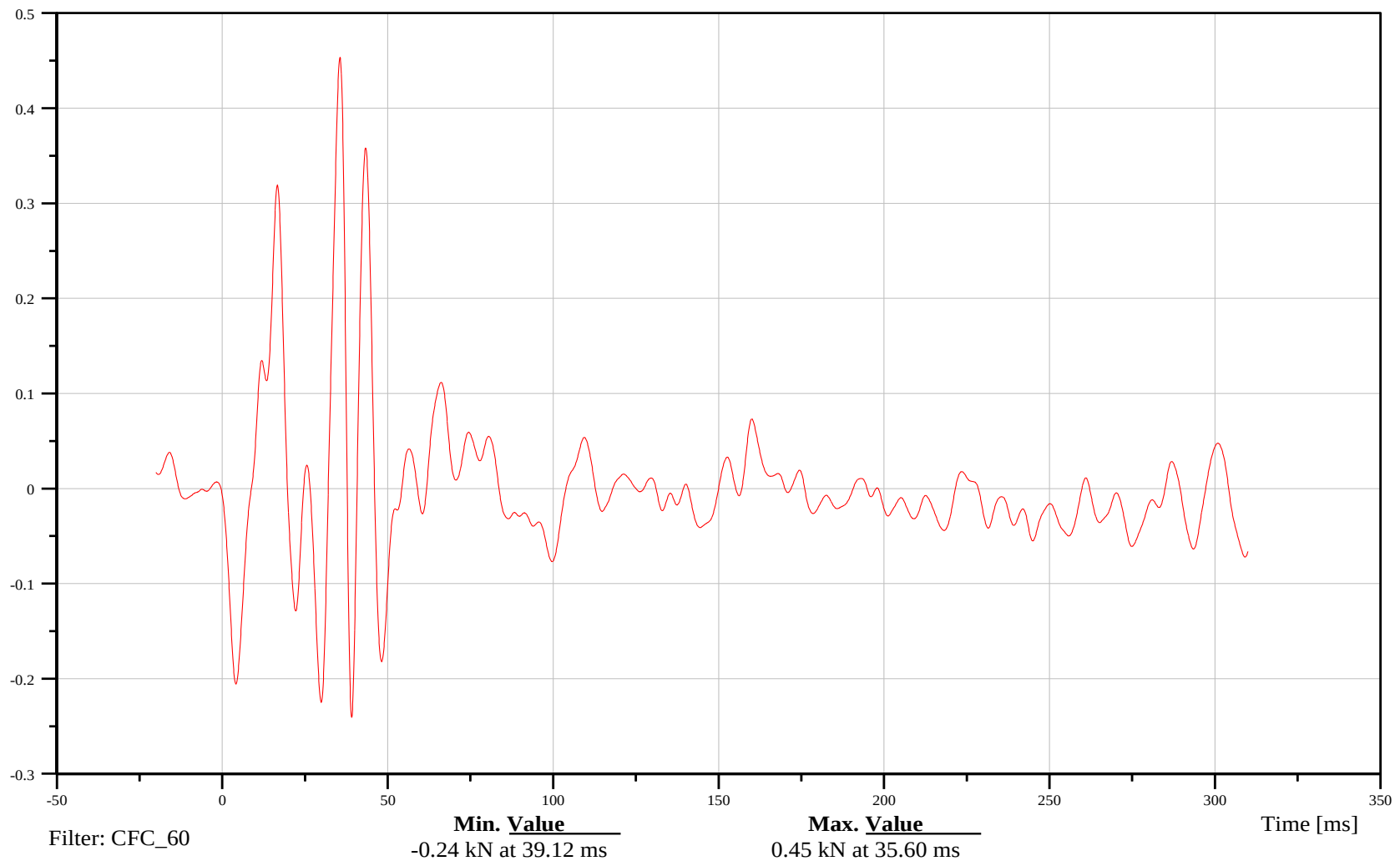
Date: 11/14/2013
Time: 15:28

BARRIER 11-4

Customer: VRTC
Test Number: 131114

B0FBAR110400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

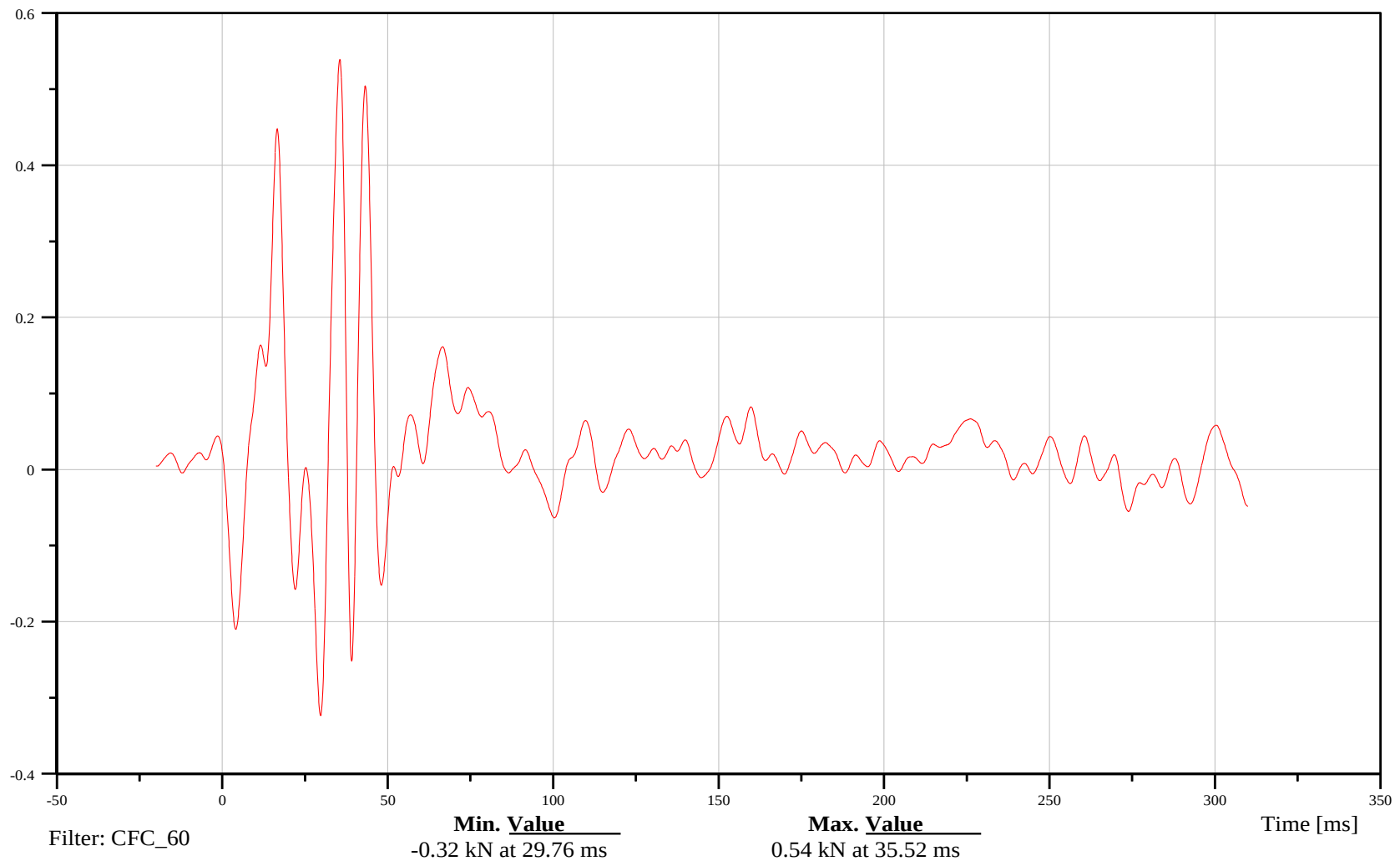
Date: 11/14/2013
Time: 15:28

BARRIER 11-5

Customer: VRTC
Test Number: 131114

B0FBAR110500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

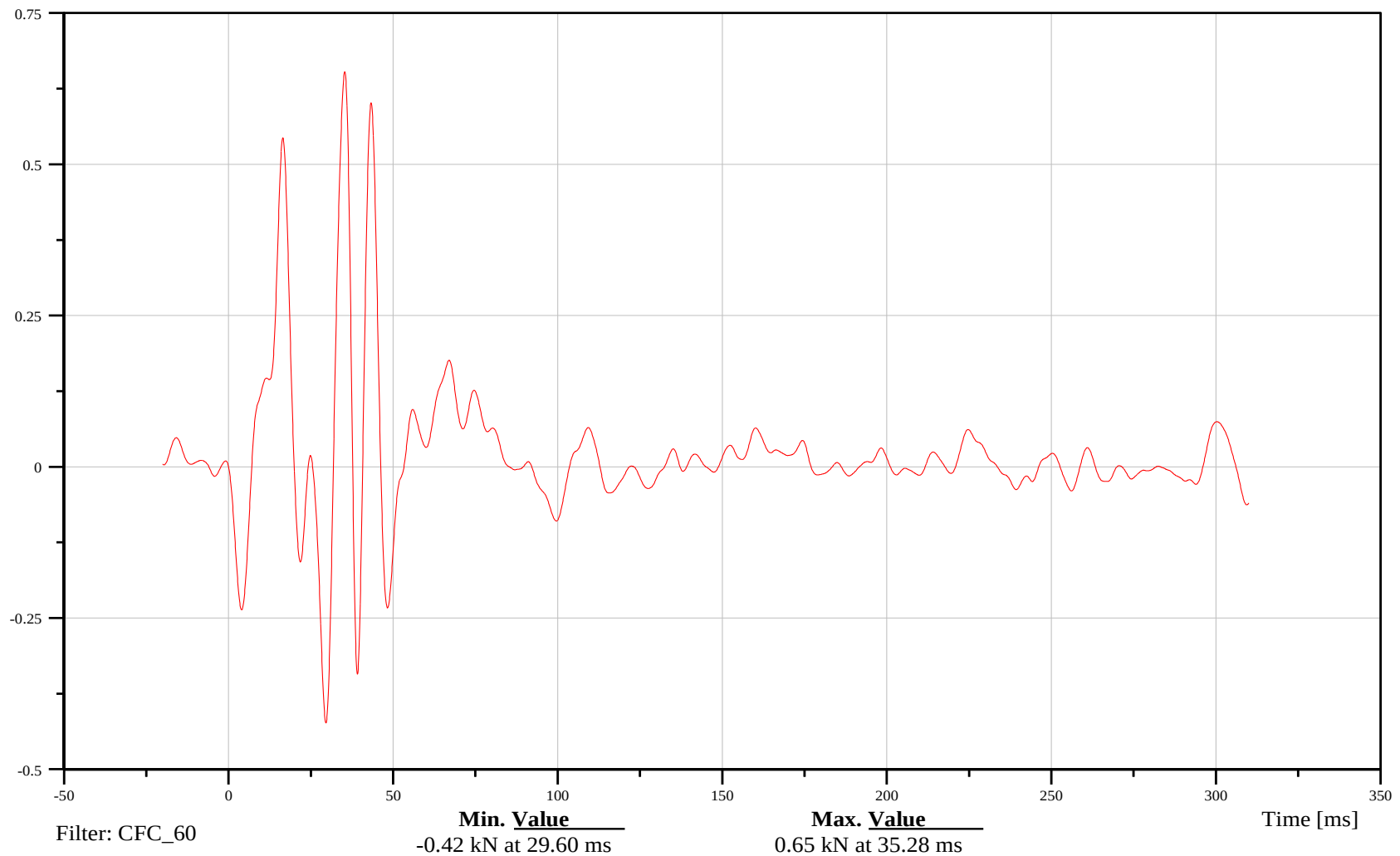
Date: 11/14/2013
Time: 15:28

BARRIER 11-6

Customer: VRTC
Test Number: 131114

B0FBAR110600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

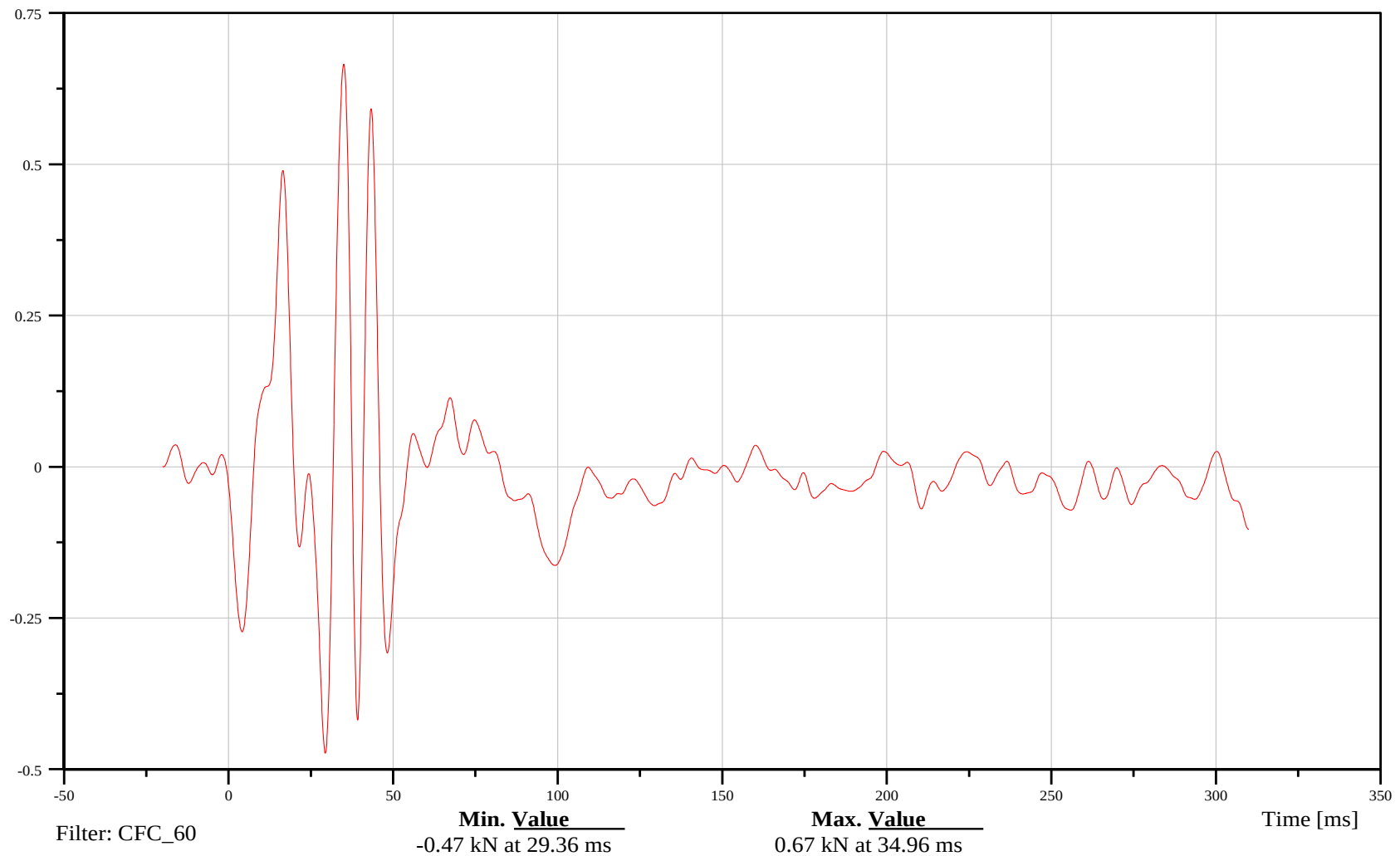
Date: 11/14/2013
Time: 15:28

BARRIER 11-7

Customer: VRTC
Test Number: 131114

B0FBAR110700FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

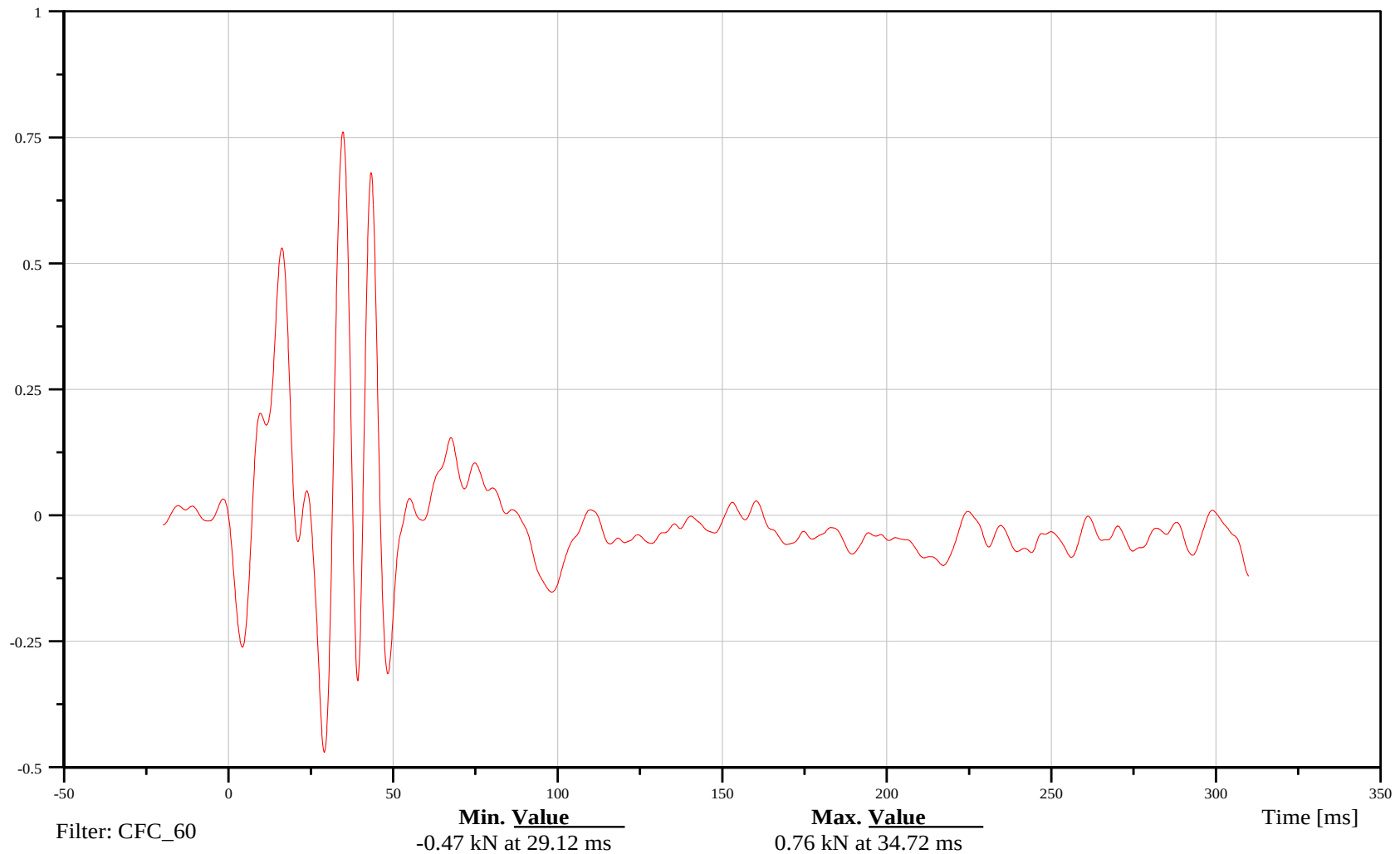
Date: 11/14/2013
Time: 15:28

BARRIER 11-8

Customer: VRTC
Test Number: 131114

B0FBAR110800FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

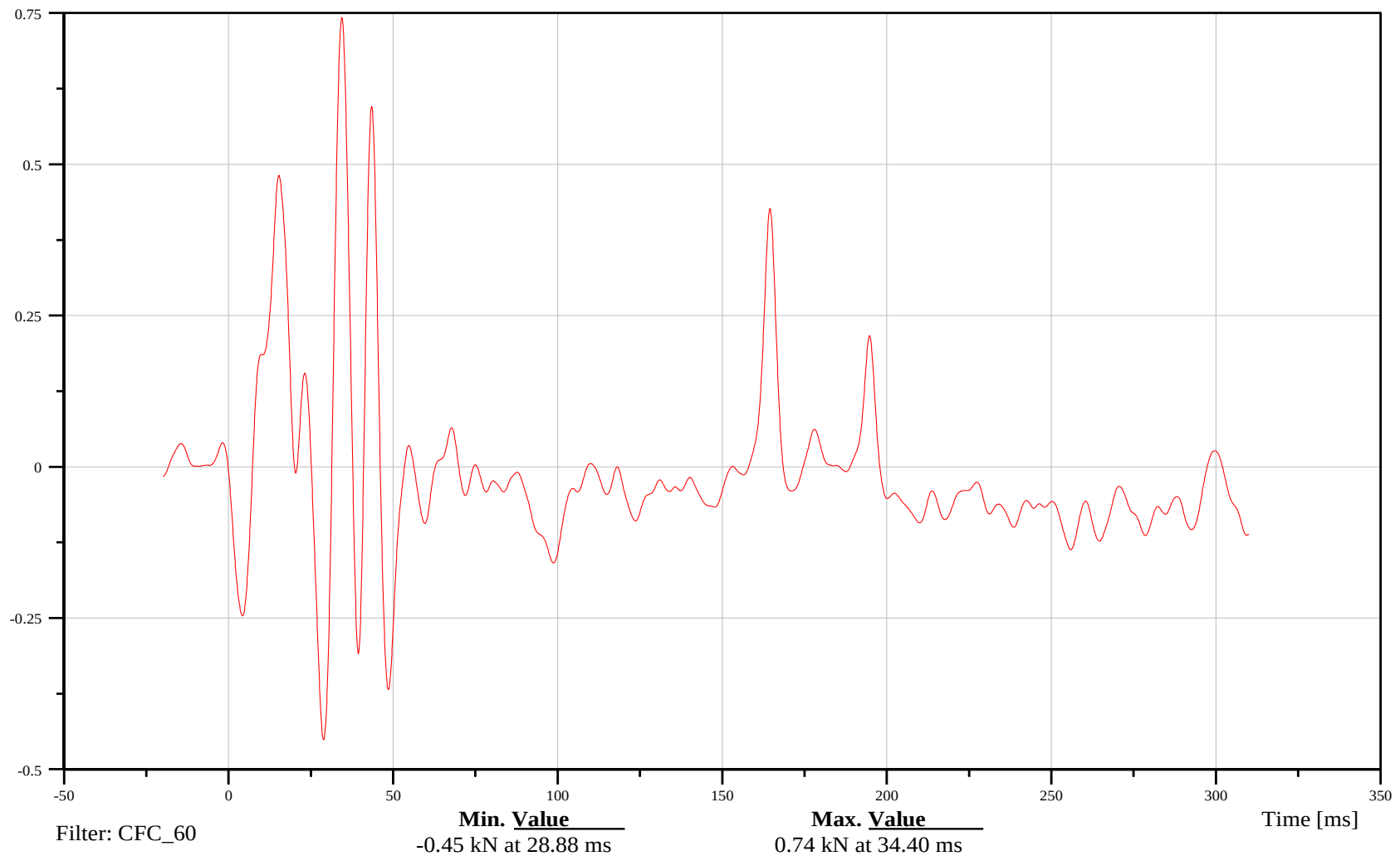
Date: 11/14/2013
Time: 15:28

BARRIER 11-9

Customer: VRTC
Test Number: 131114

B0FBAR110900FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

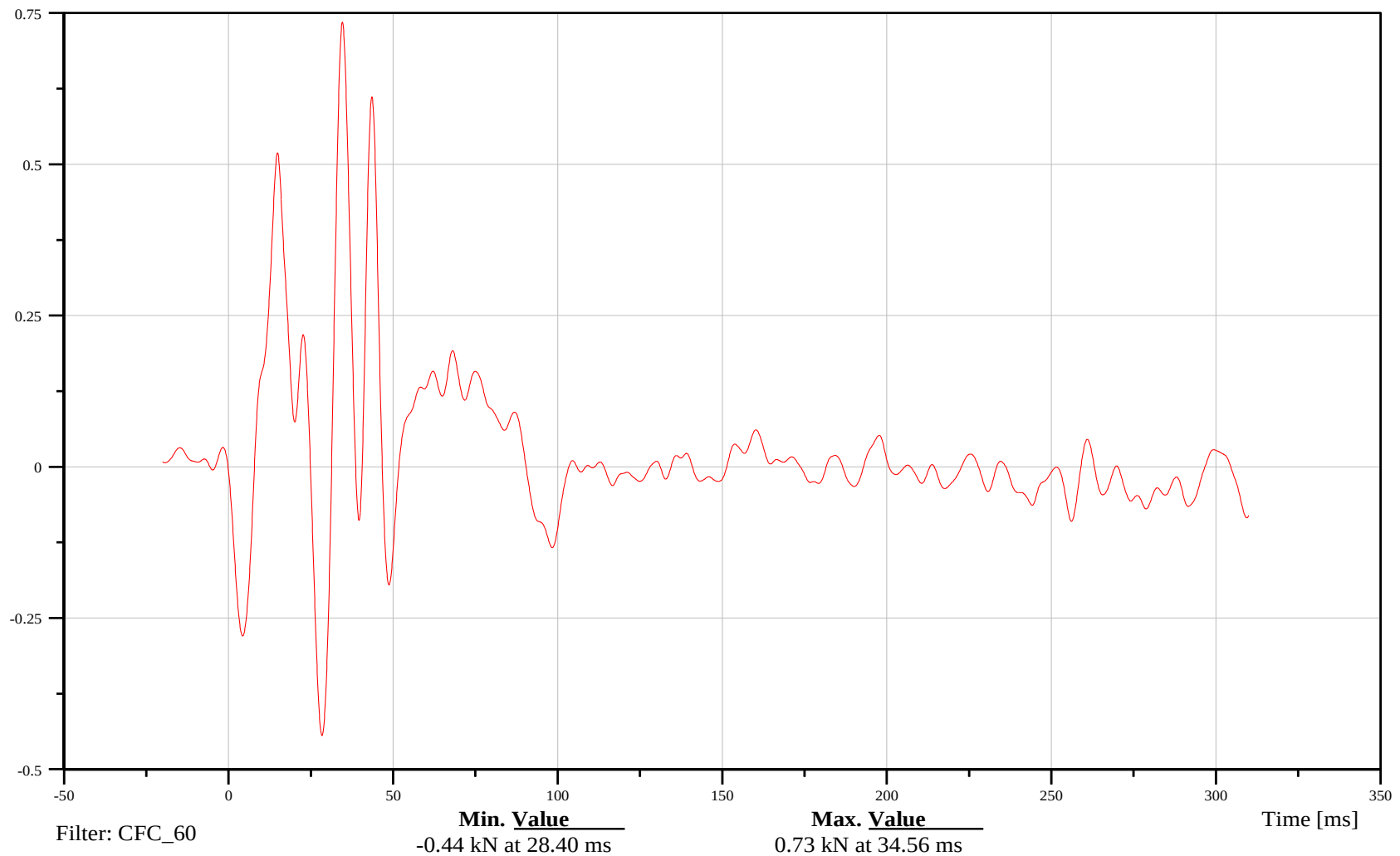
Date: 11/14/2013
Time: 15:28

BARRIER 11-10

Customer: VRTC
Test Number: 131114

B0FBAR111000FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

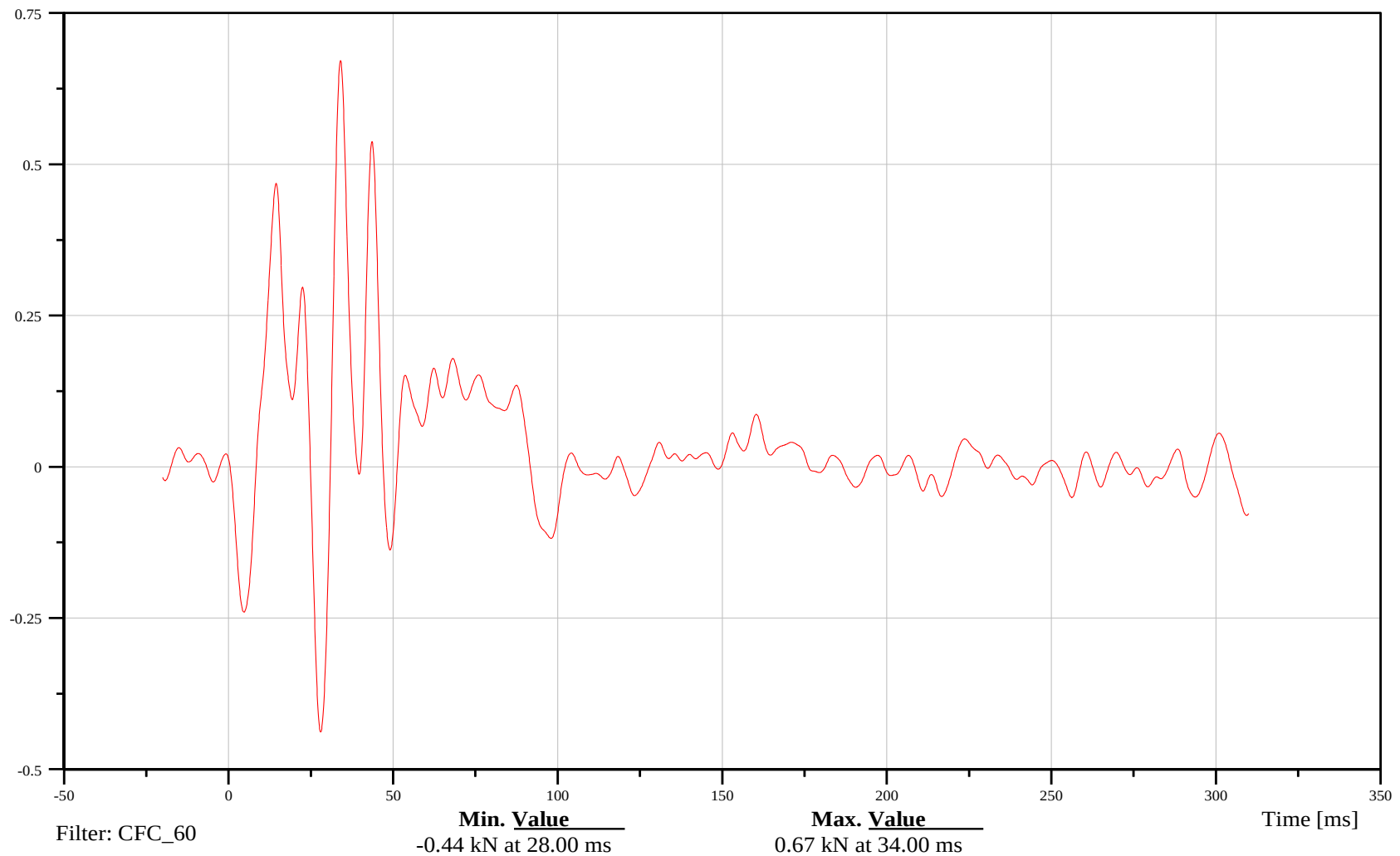
Date: 11/14/2013
Time: 15:28

BARRIER 11-11

Customer: VRTC
Test Number: 131114

B0FBAR111100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

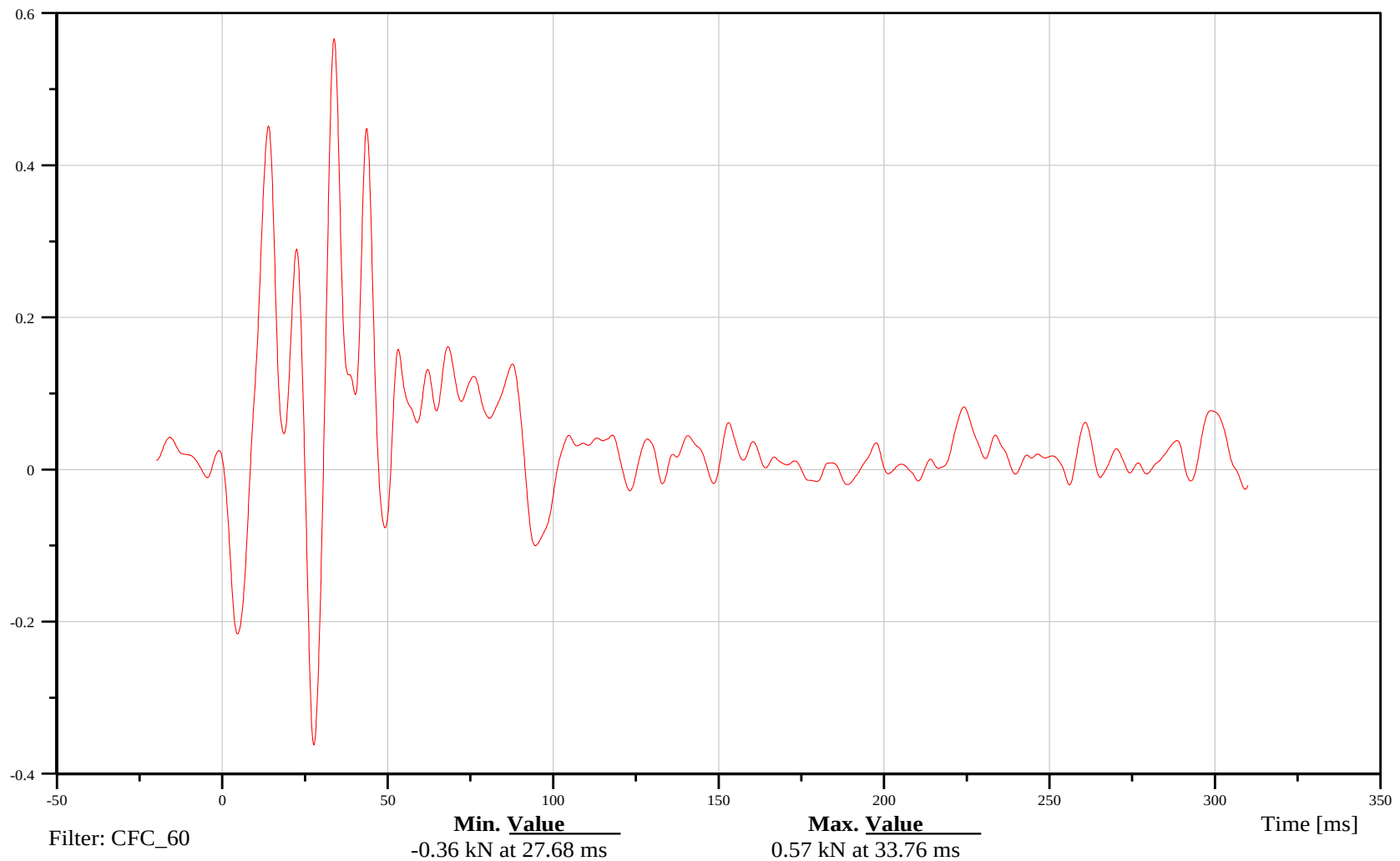
Date: 11/14/2013
Time: 15:28

BARRIER 11-12

Customer: VRTC
Test Number: 131114

B0FBAR111200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

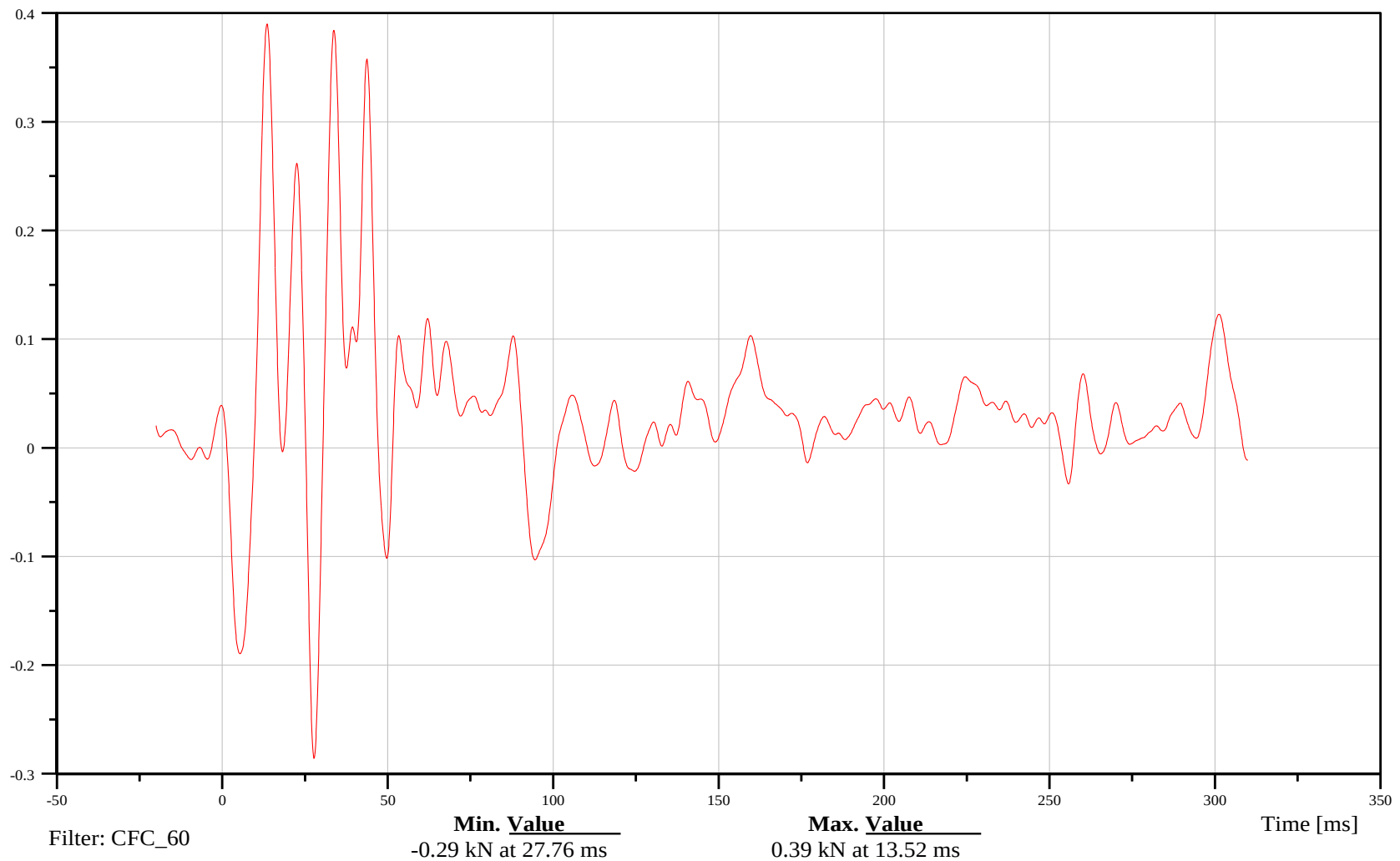
Date: 11/14/2013
Time: 15:28

BARRIER 11-13

Customer: VRTC
Test Number: 131114

B0FBAR111300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

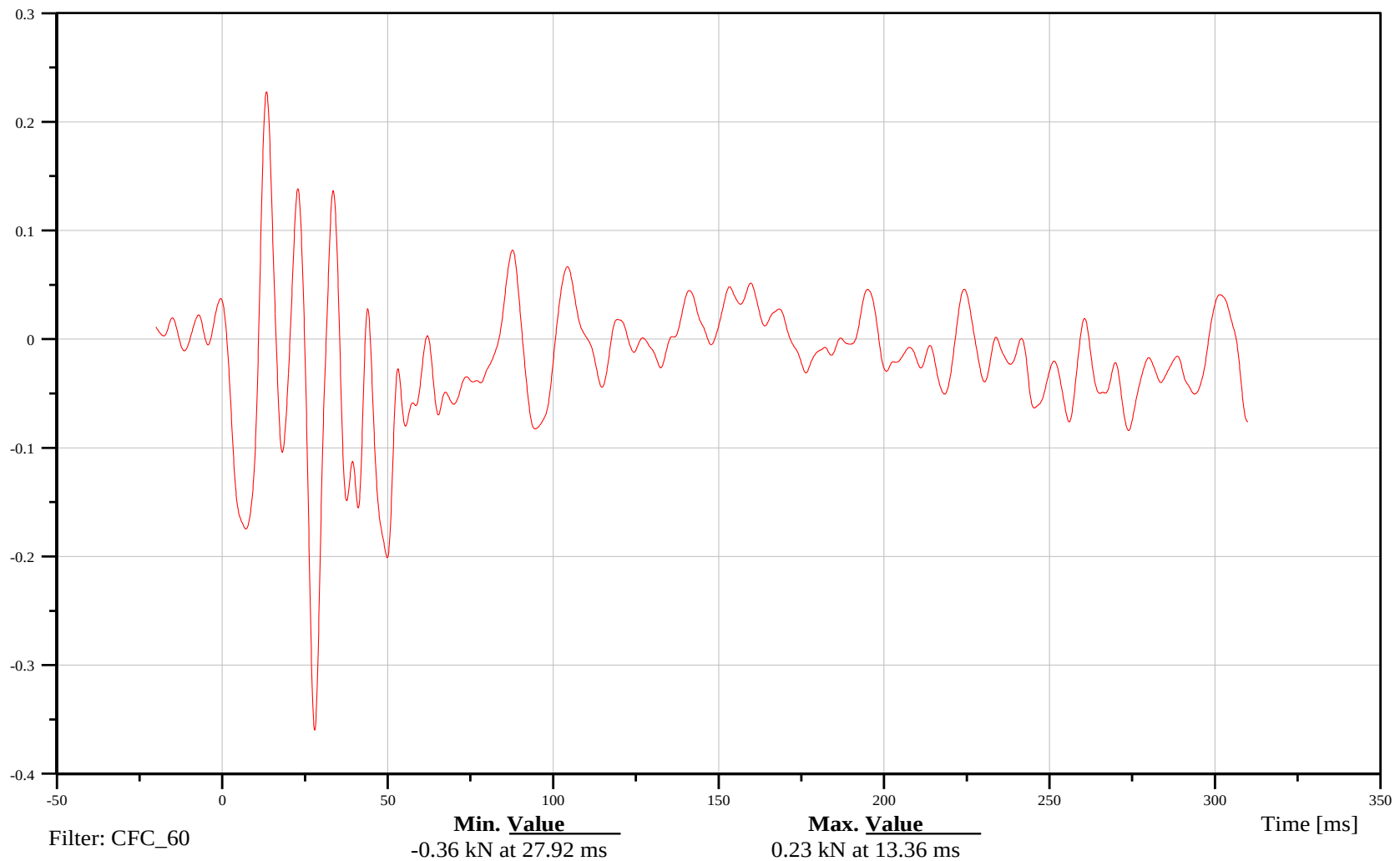
Date: 11/14/2013
Time: 15:28

BARRIER 11-14

Customer: VRTC
Test Number: 131114

B0FBAR111400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

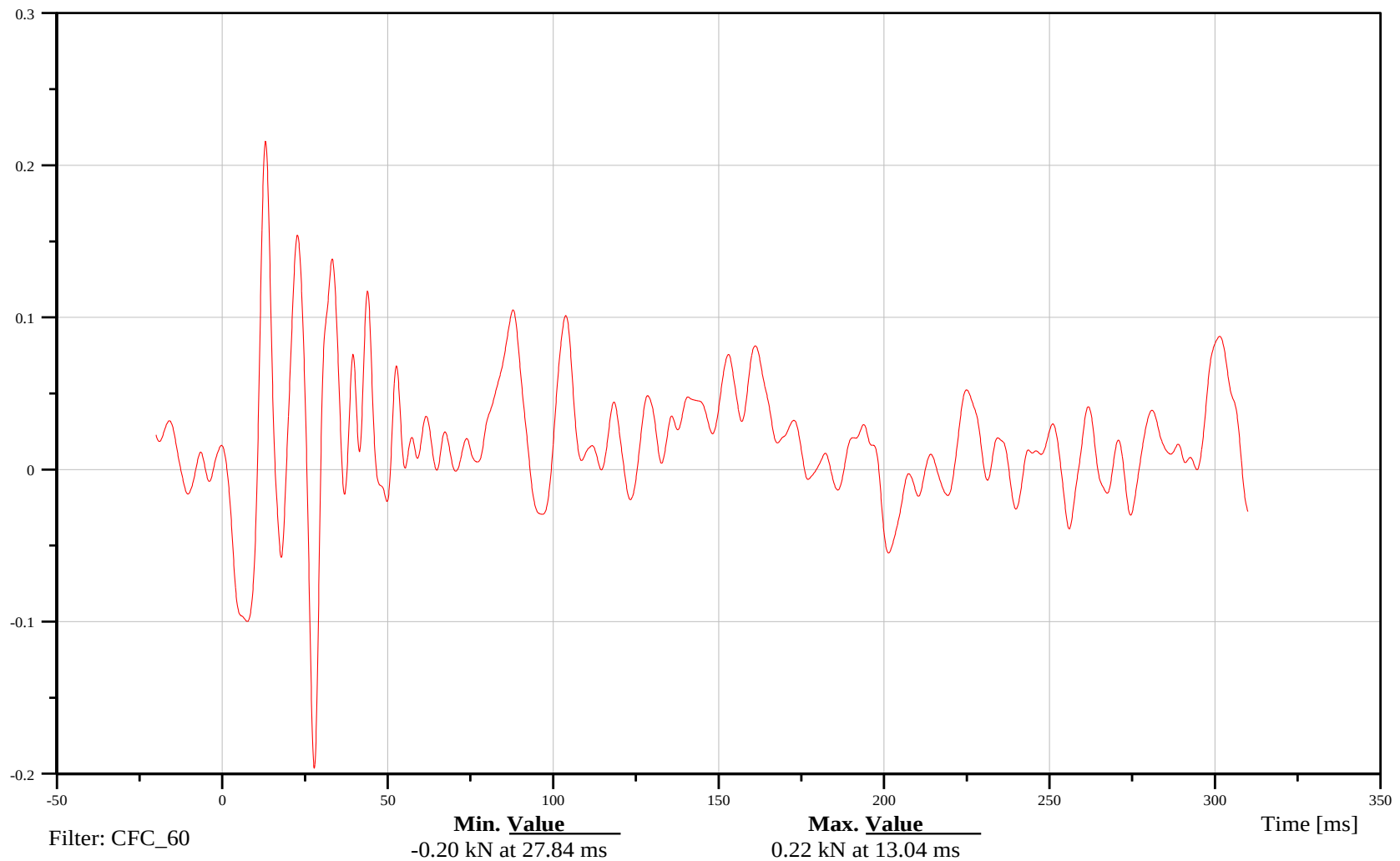
Date: 11/14/2013
Time: 15:28

BARRIER 11-15

Customer: VRTC
Test Number: 131114

B0FBAR111500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

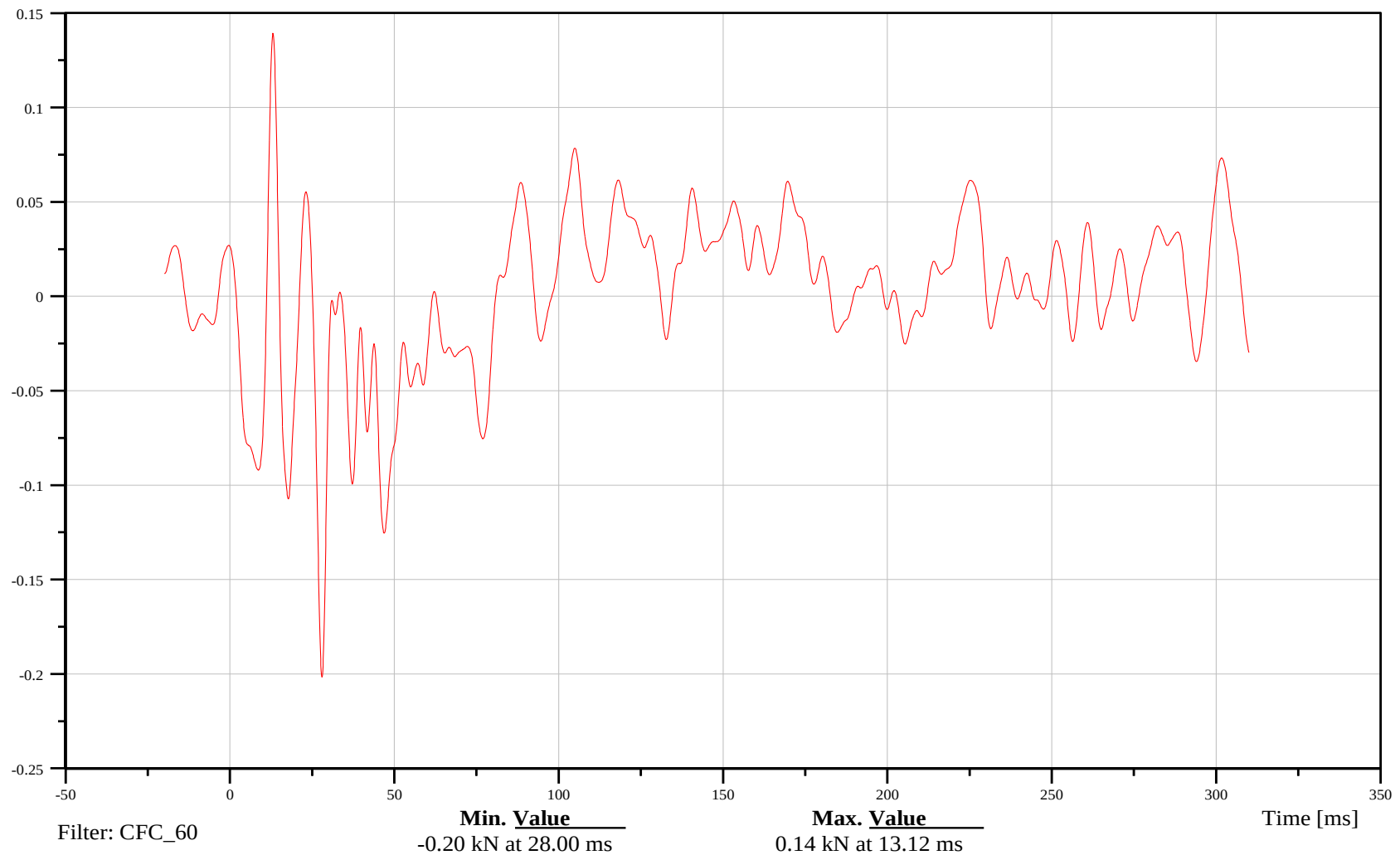
Date: 11/14/2013
Time: 15:28

BARRIER 11-16

Customer: VRTC
Test Number: 131114

B0FBAR111600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

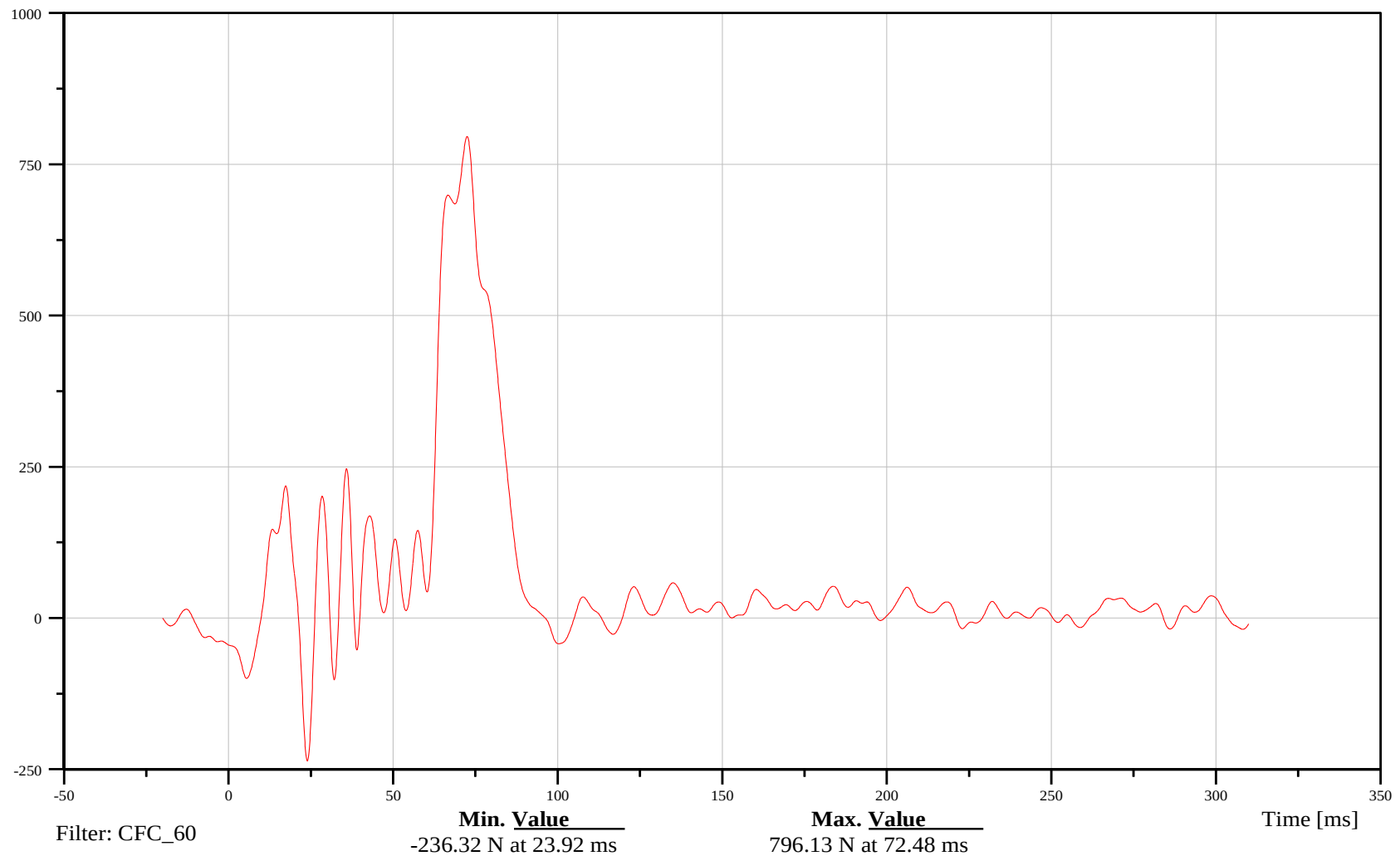
BARRIER 9-1 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

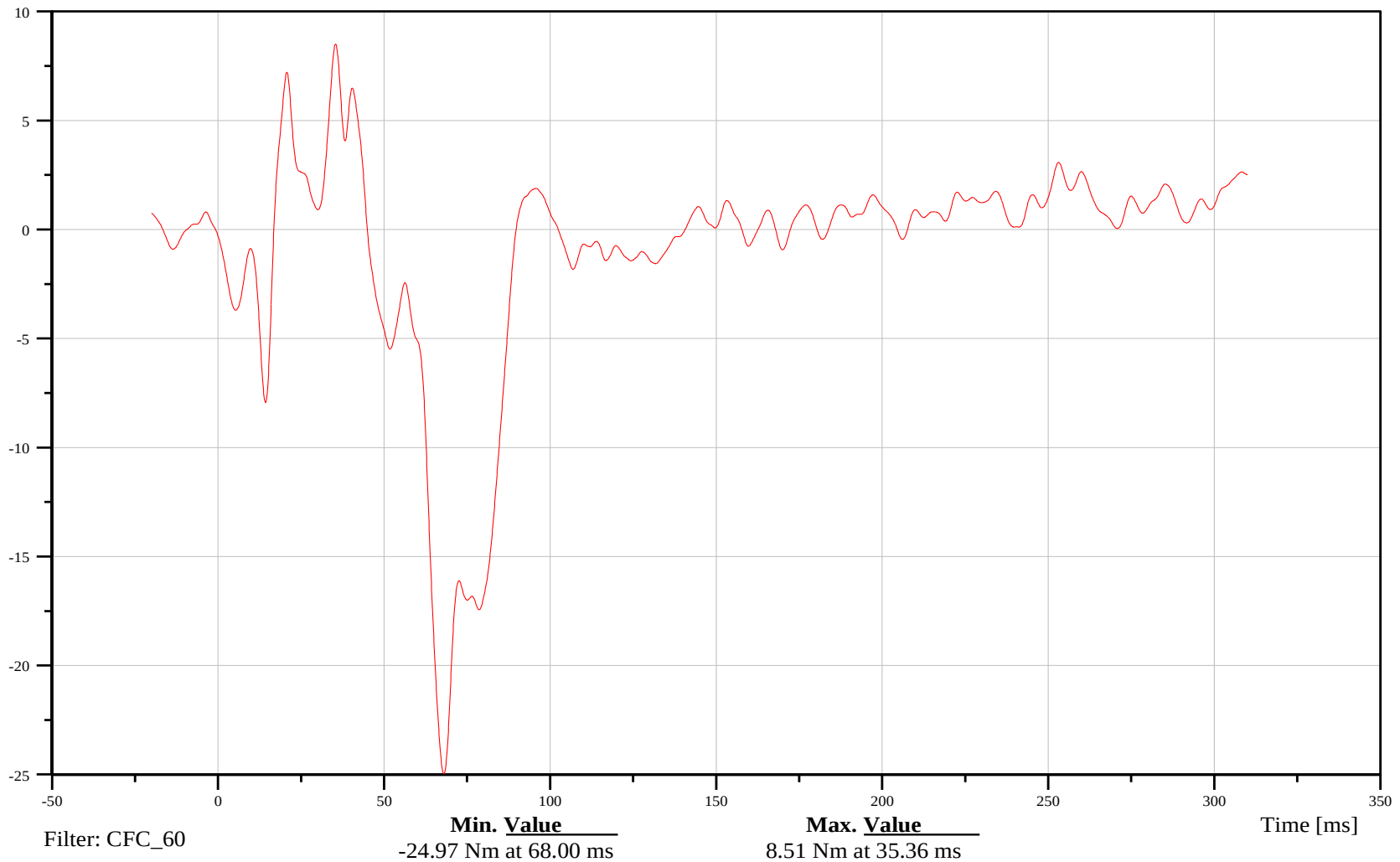
Date: 11/14/2013
Time: 15:28

BARRIER 9-1 My

Customer: VRTC
Test Number: 131114

B0FBAR090100MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

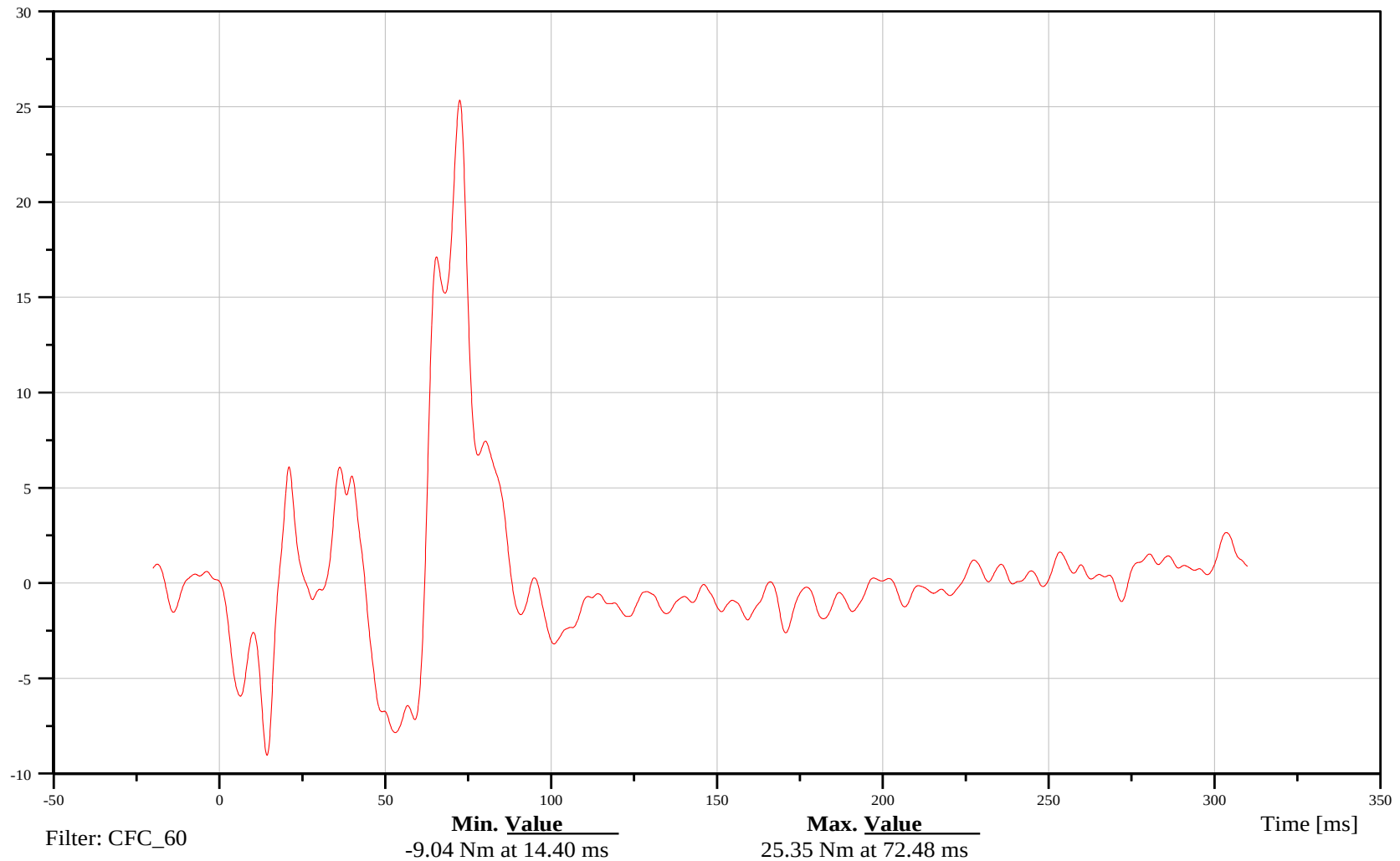
Date: 11/14/2013
Time: 15:28

BARRIER 9-1 Mz

Customer: VRTC
Test Number: 131114

B0FBAR090100MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

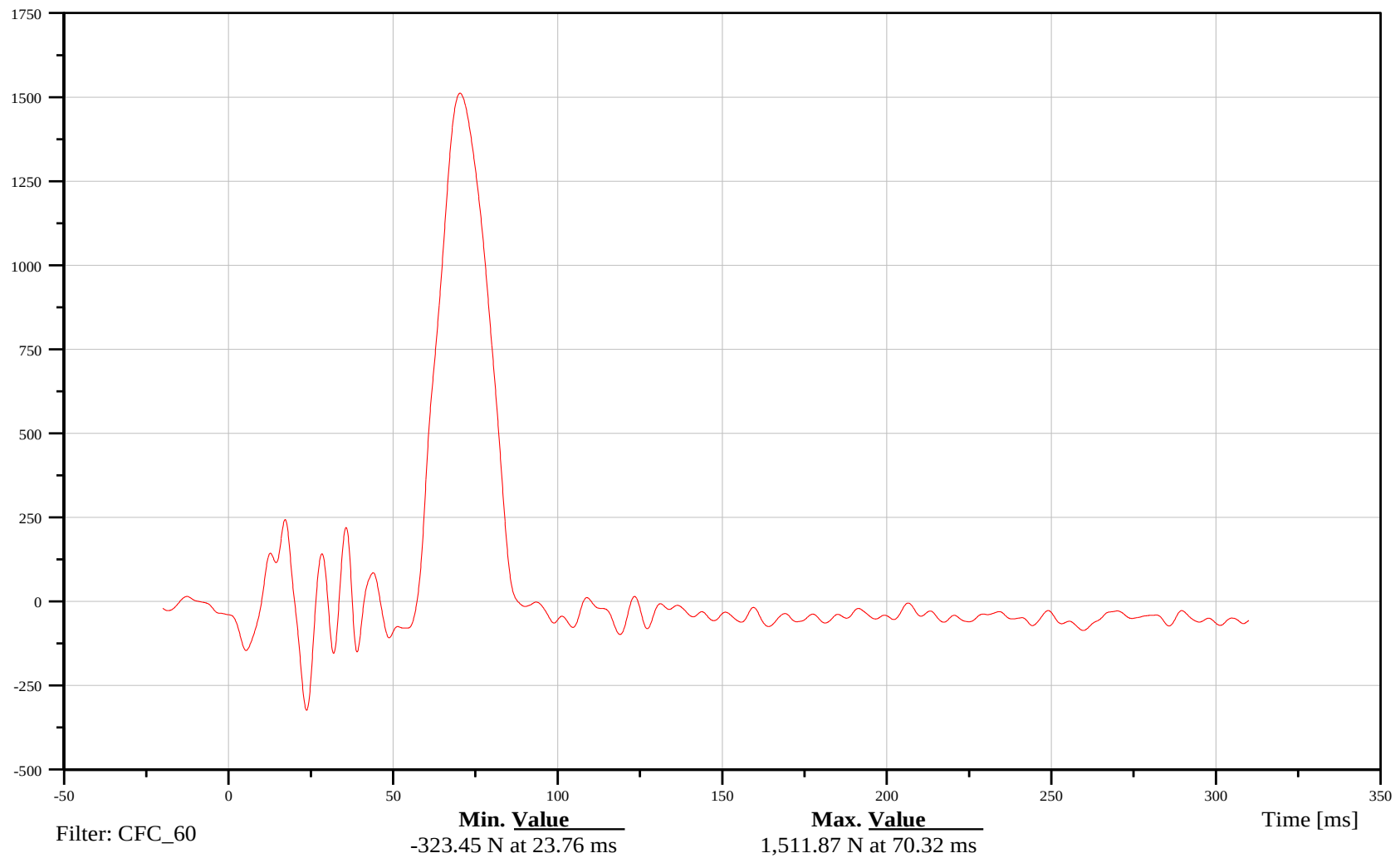
BARRIER 9-2 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

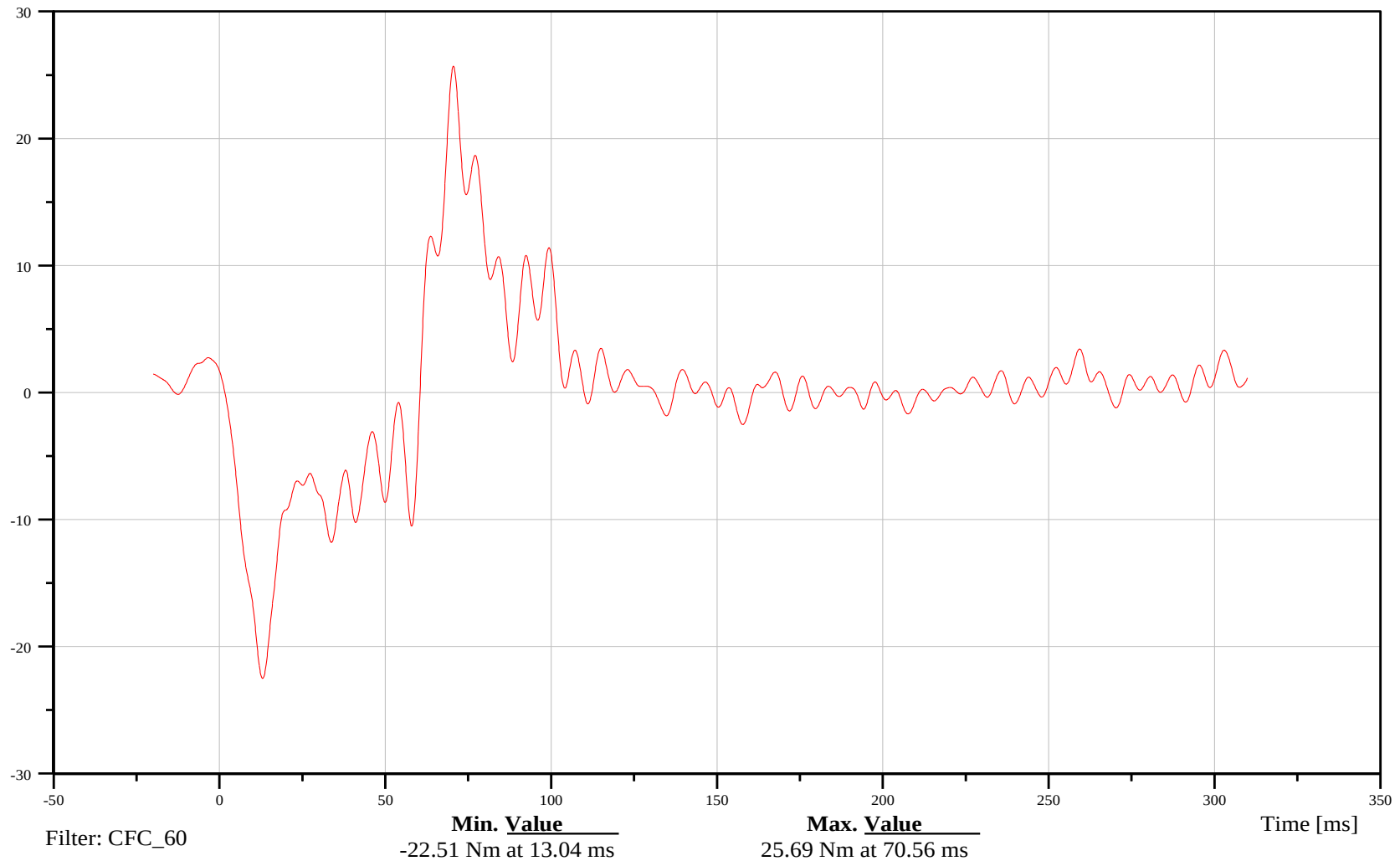
Date: 11/14/2013
Time: 15:28

BARRIER 9-2 My

Customer: VRTC
Test Number: 131114

B0FBAR090200MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

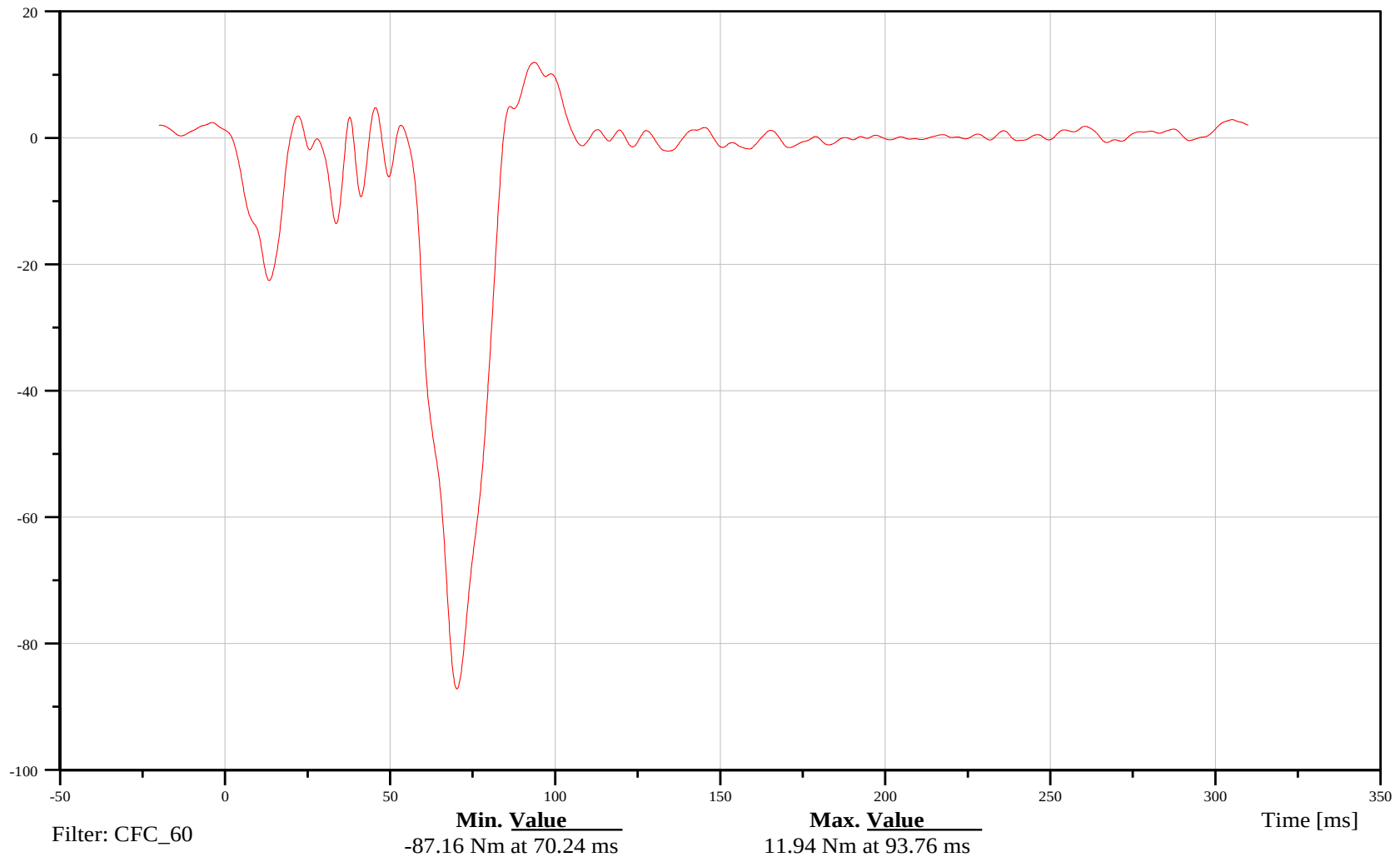
BARRIER 9-2 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090200MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

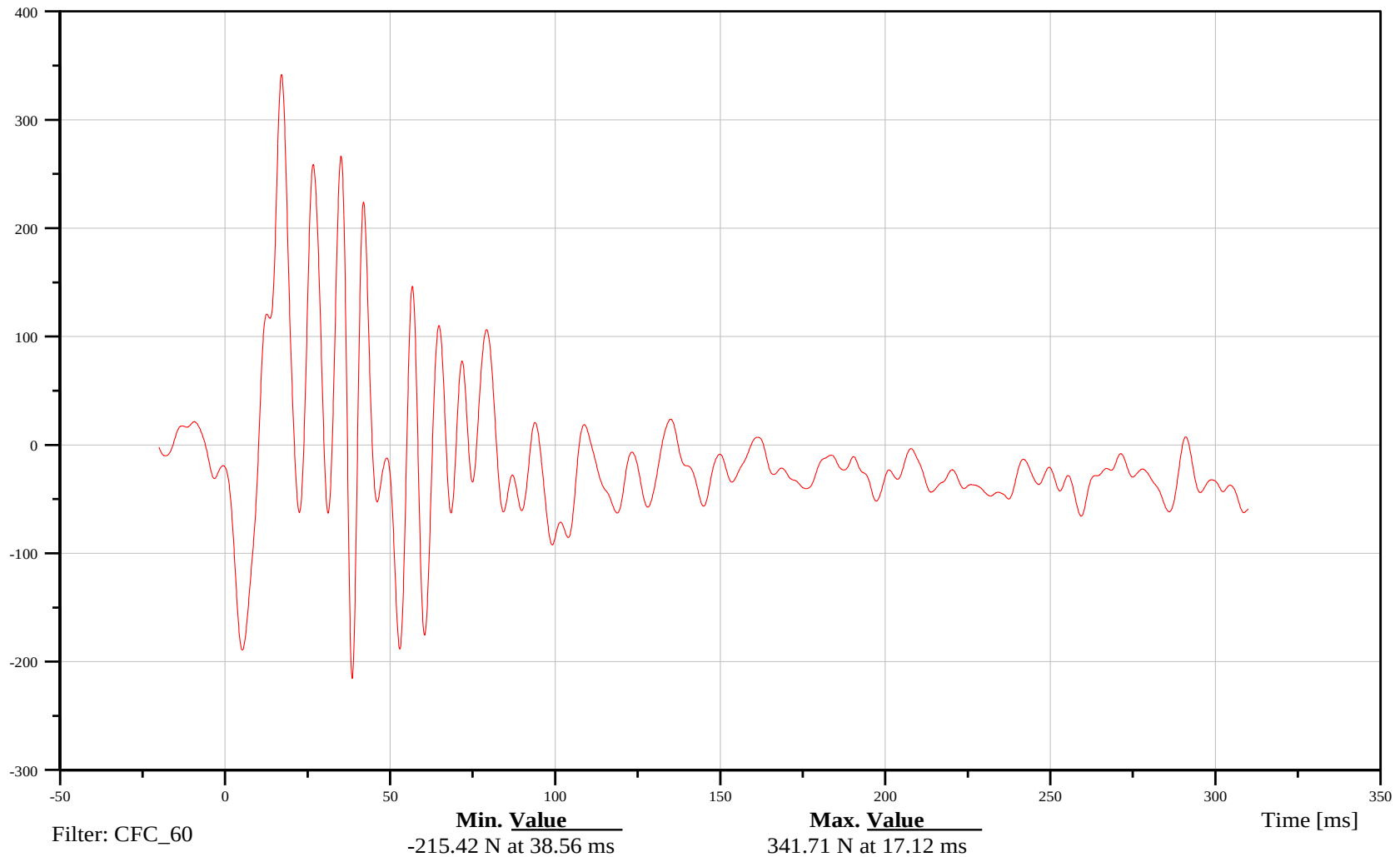
Date: 11/14/2013
Time: 15:28

BARRIER 9-3 FX

Customer: VRTC
Test Number: 131114

B0FBAR090300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

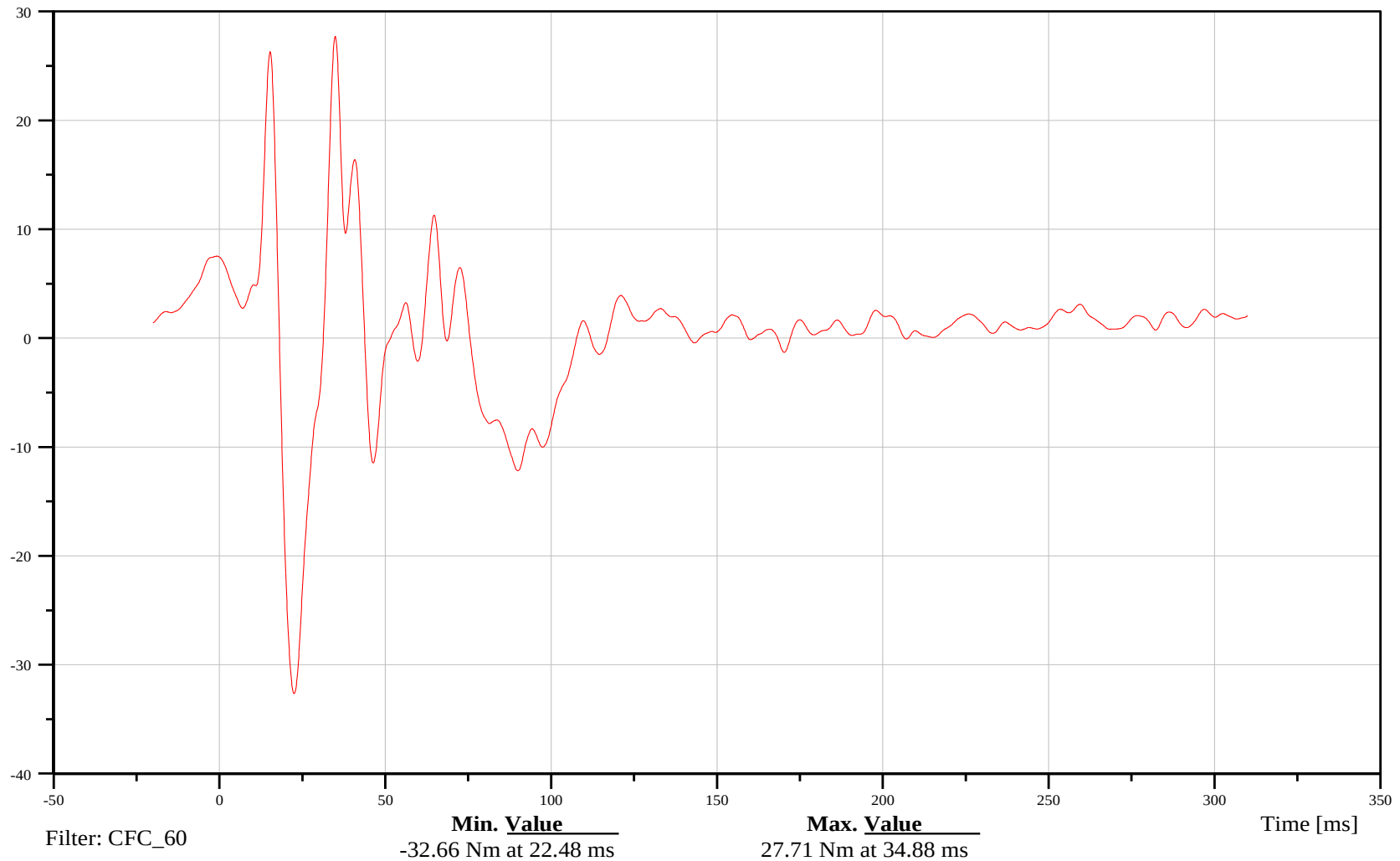
BARRIER 9-3 My

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090300MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

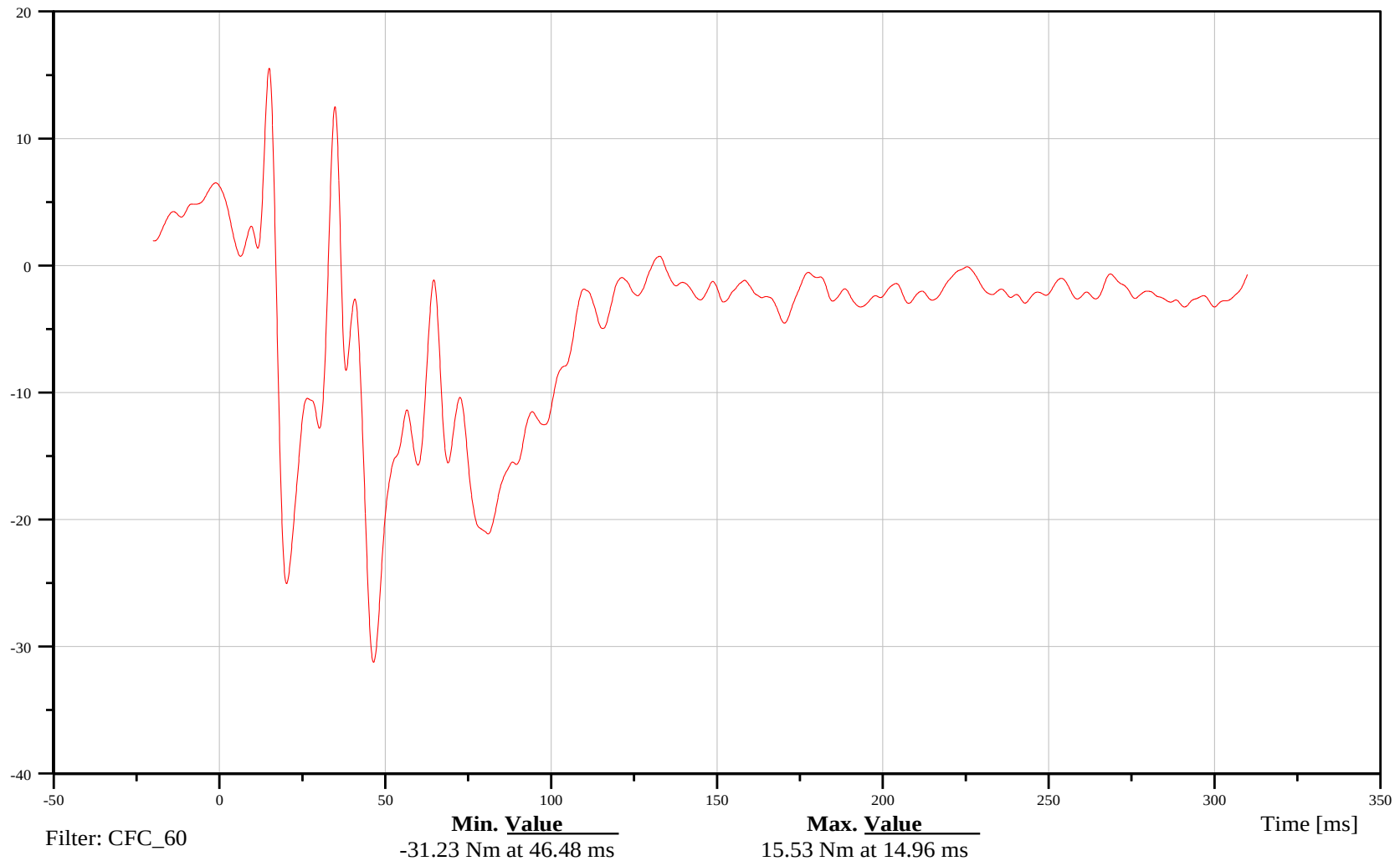
BARRIER 9-3 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090300MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

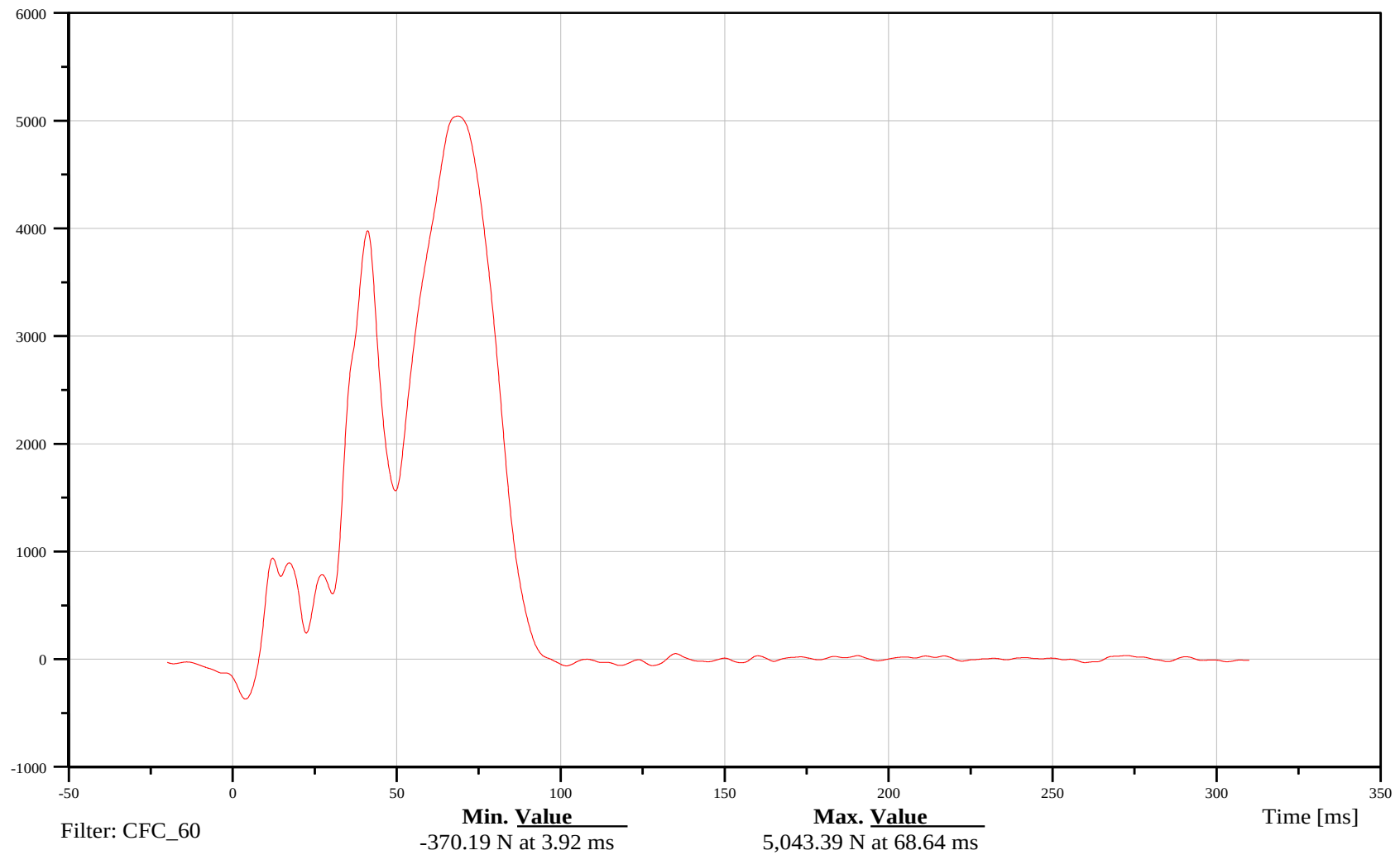
BARRIER 9-4 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

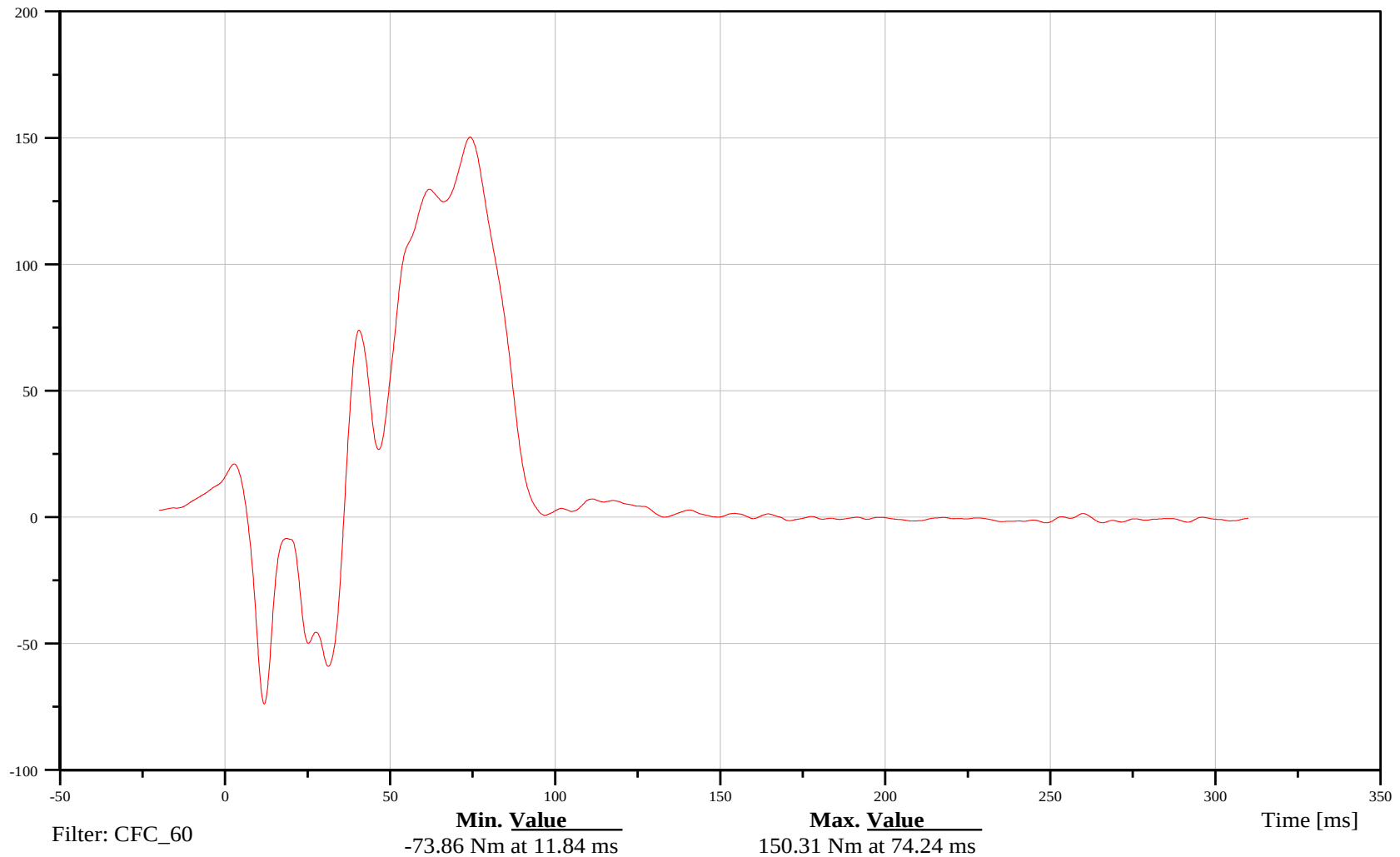
BARRIER 9-4 My

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090400MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

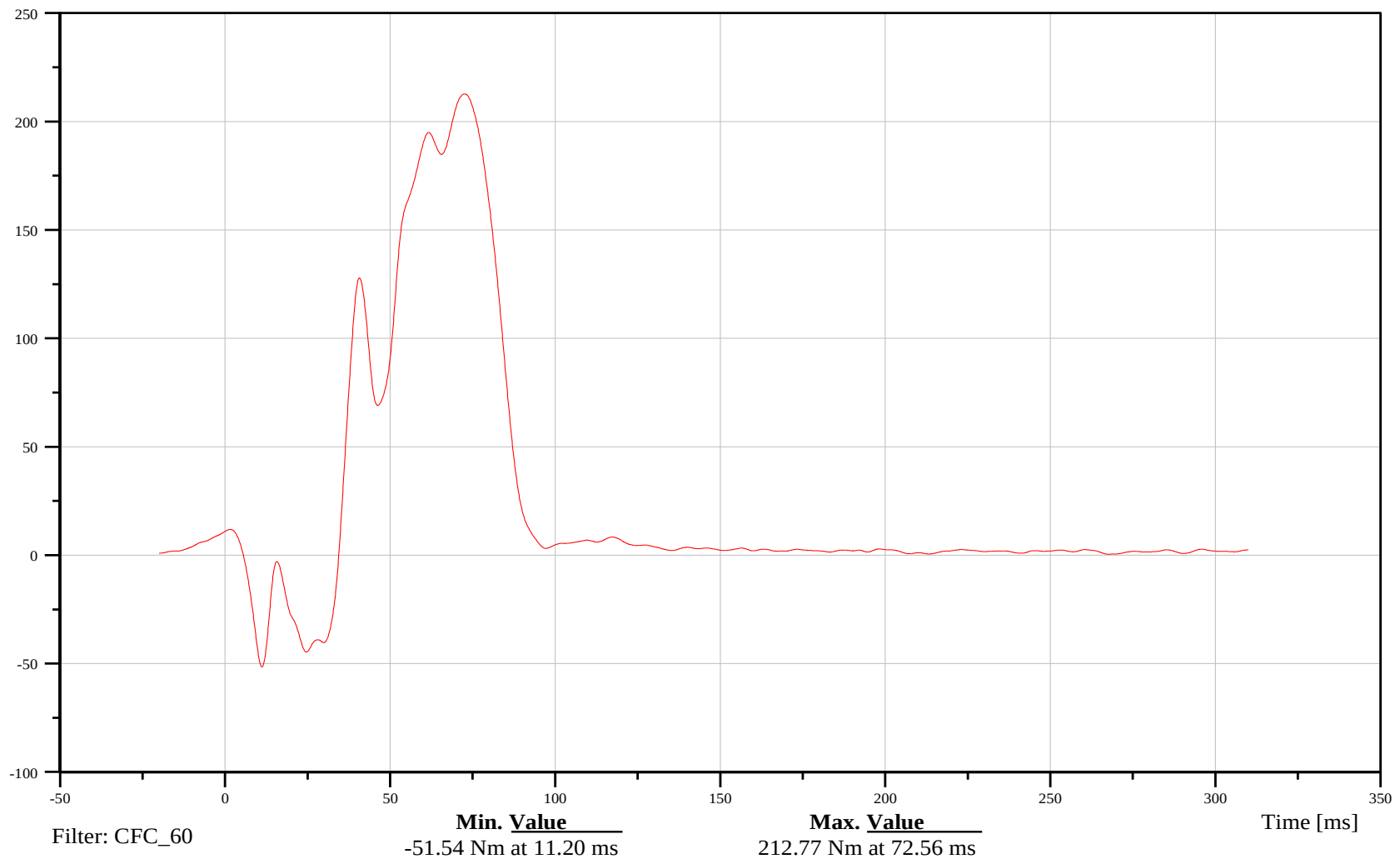
BARRIER 9-4 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090400MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

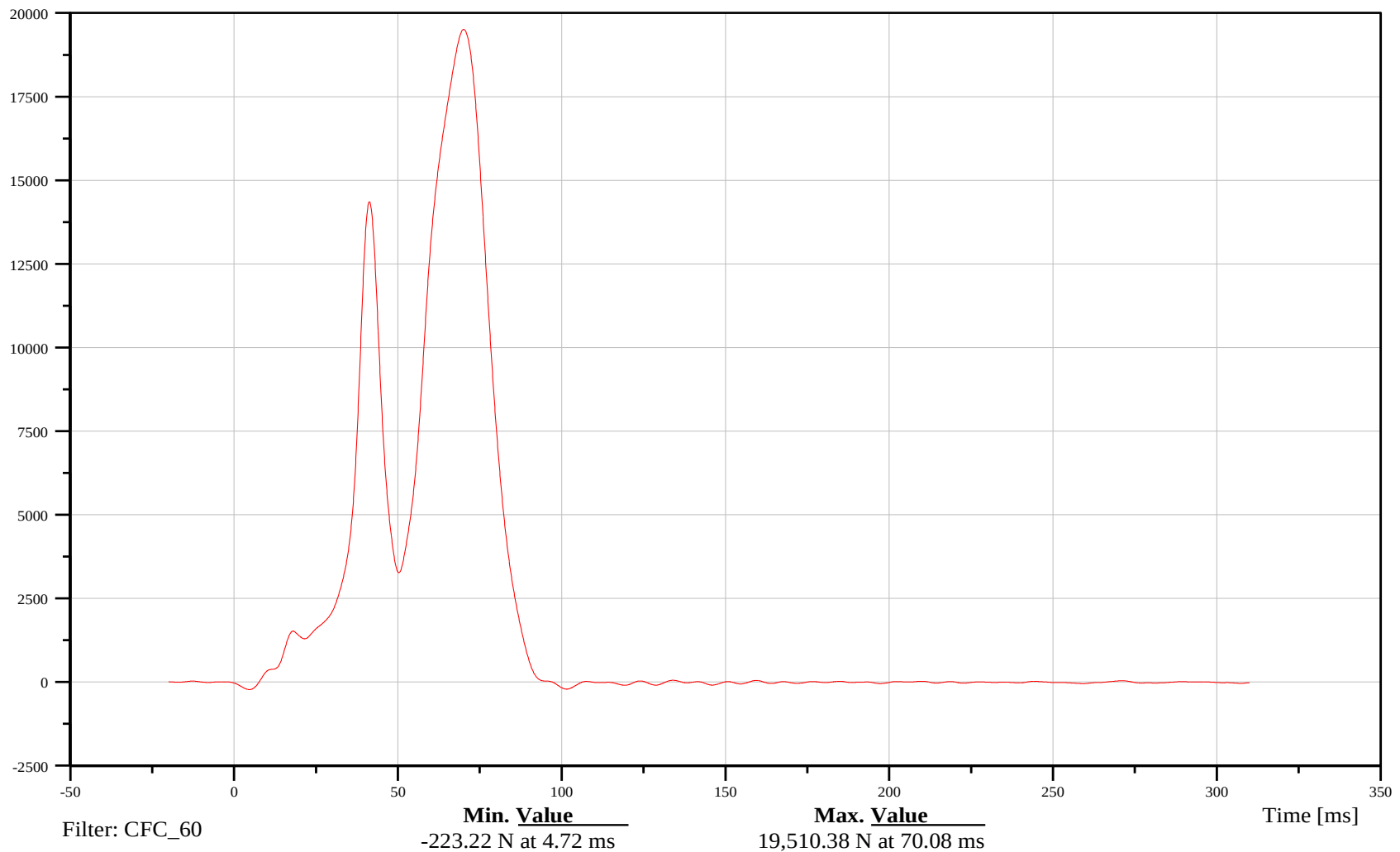
BARRIER 9-5 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

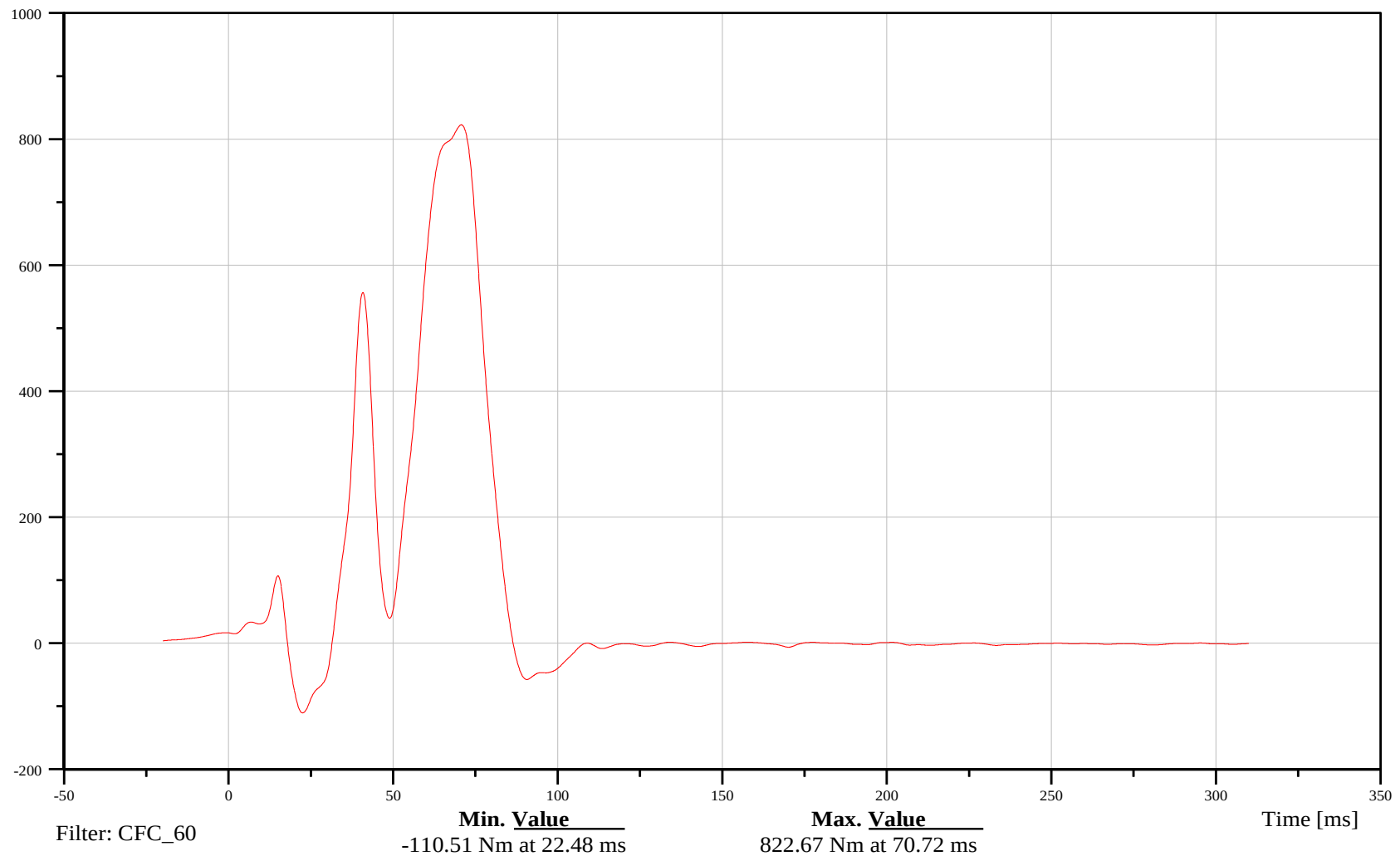
Date: 11/14/2013
Time: 15:28

BARRIER 9-5 My

Customer: VRTC
Test Number: 131114

B0FBAR090500MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

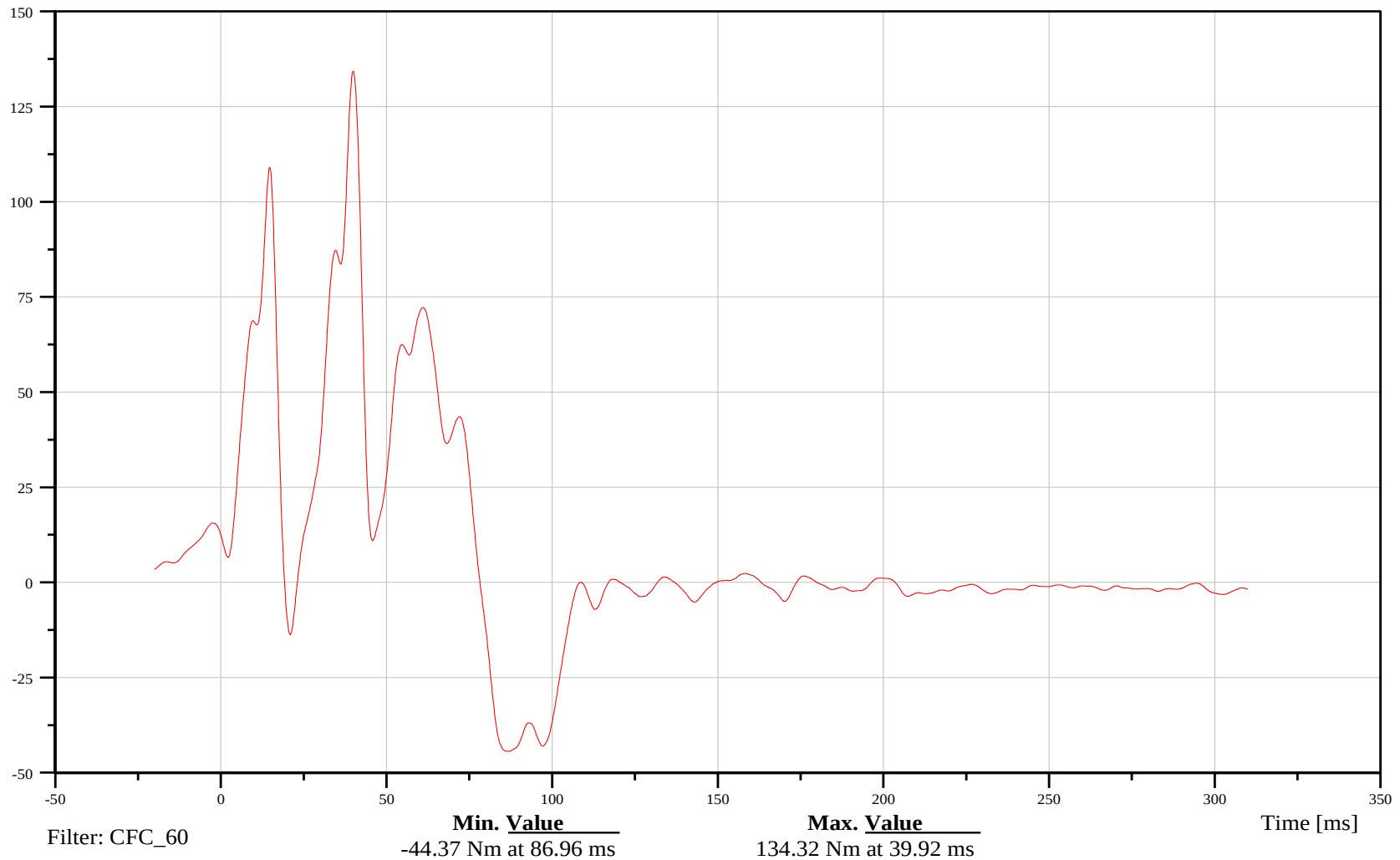
BARRIER 9-5 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090500MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

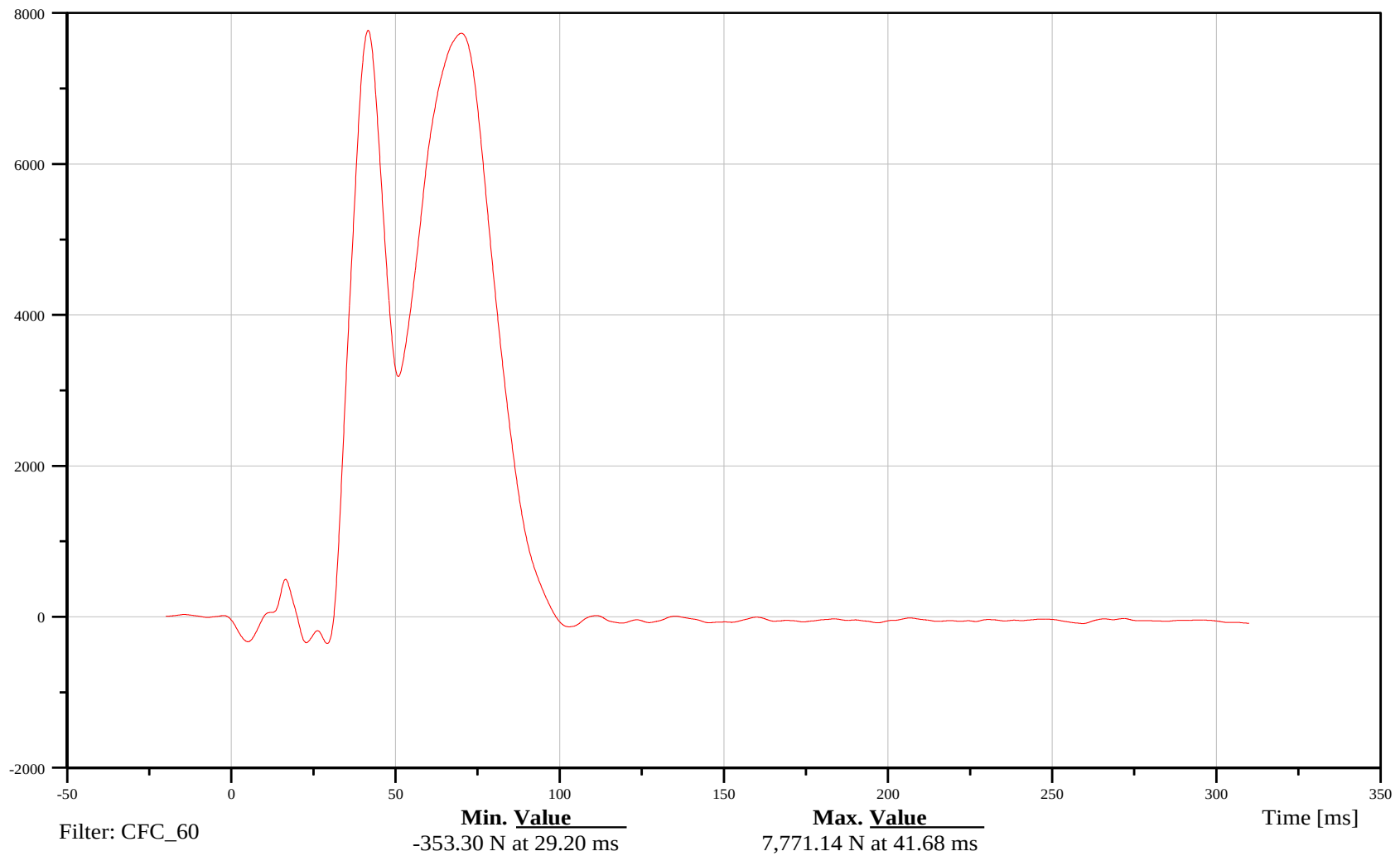
BARRIER 9-6 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

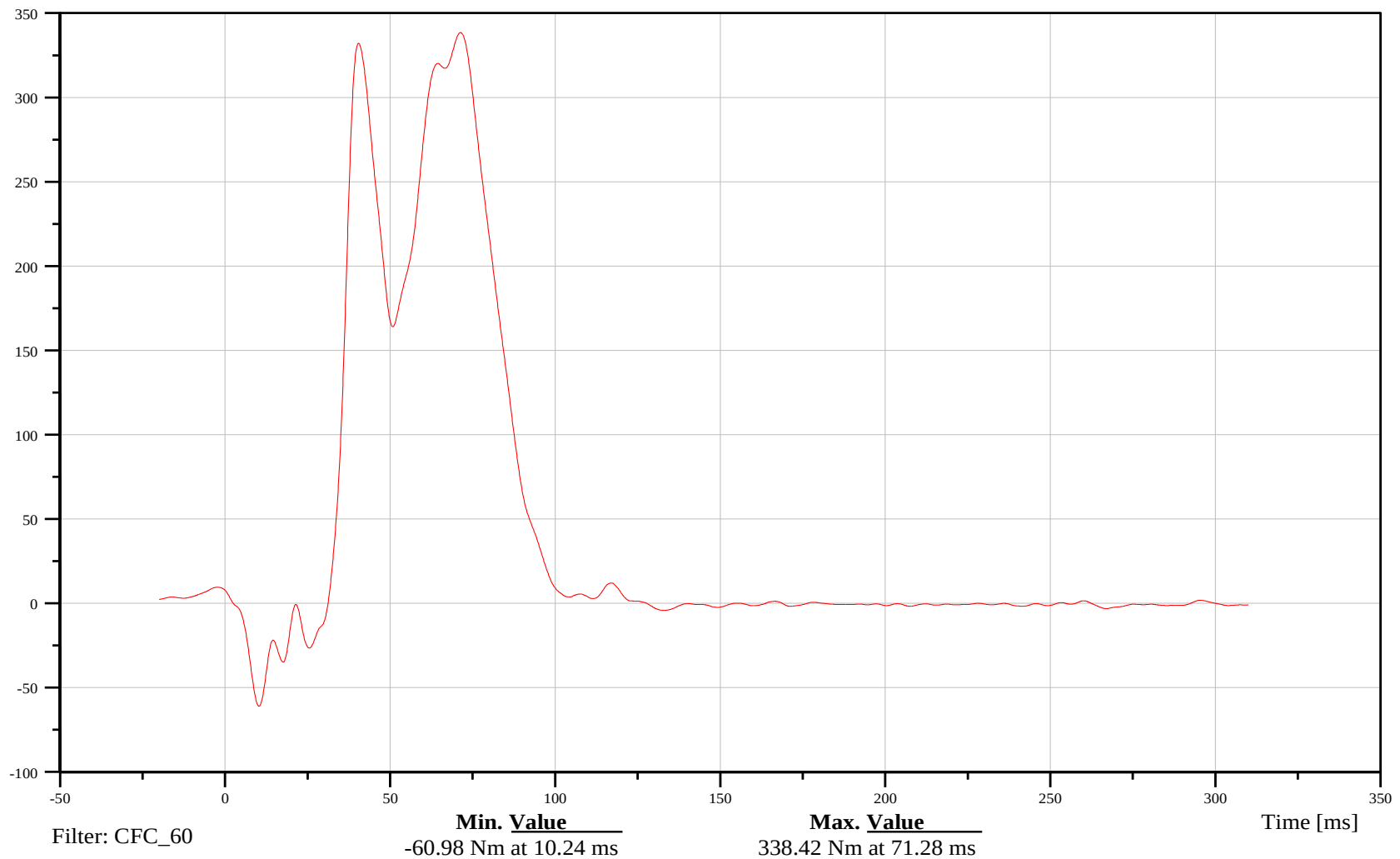
BARRIER 9-6 My

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090600MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

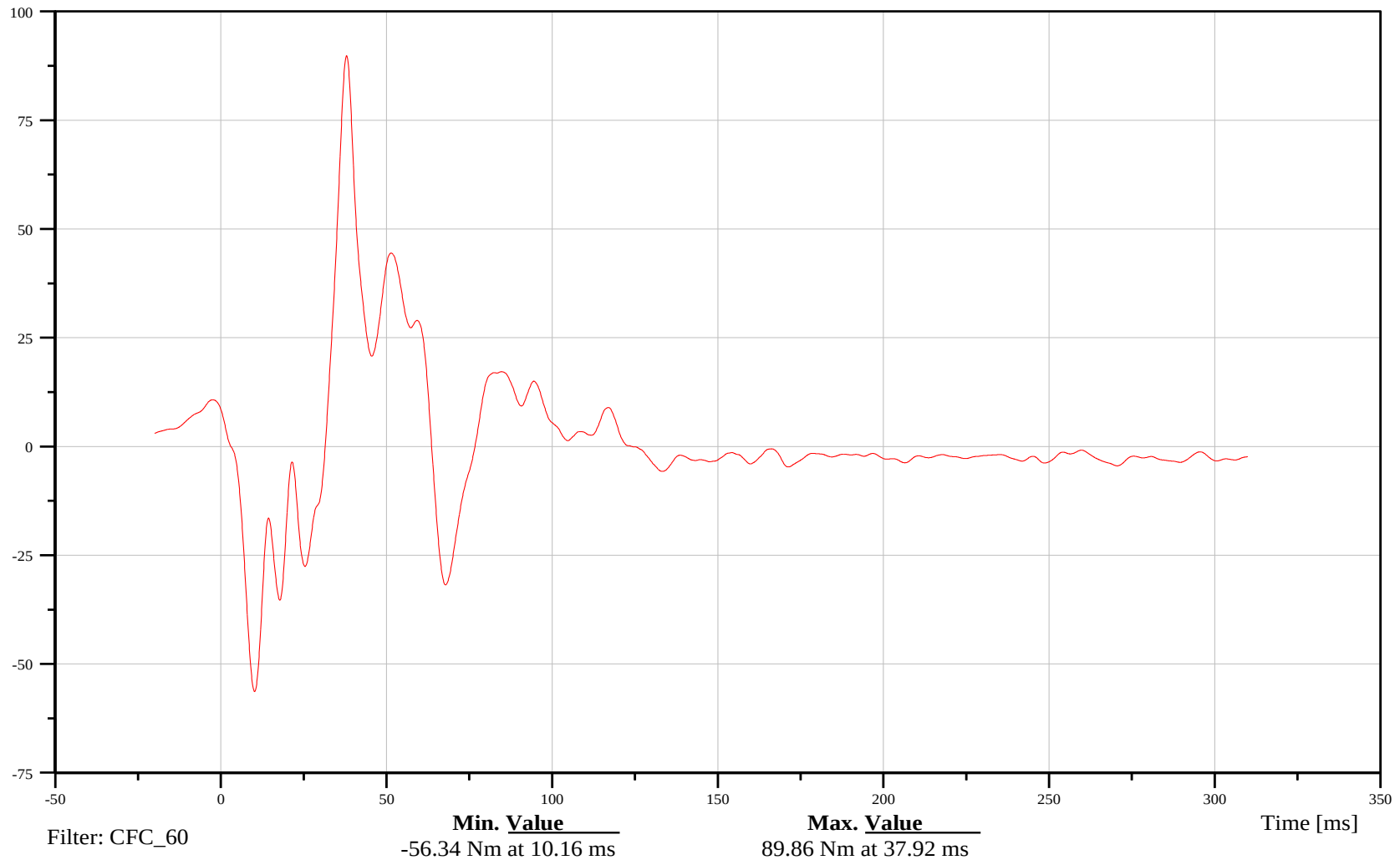
BARRIER 9-6 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090600MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

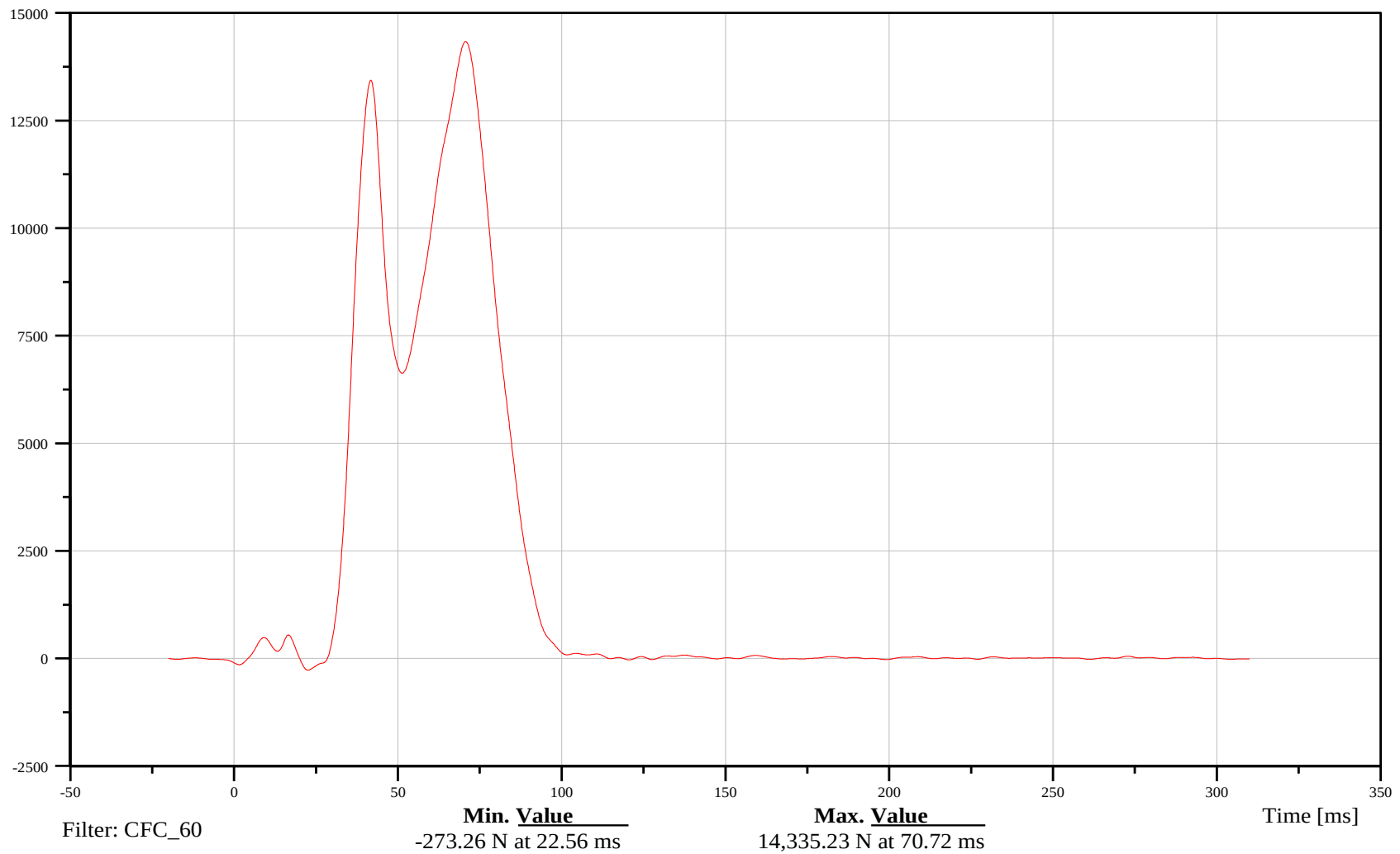
BARRIER 9-7 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090700FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

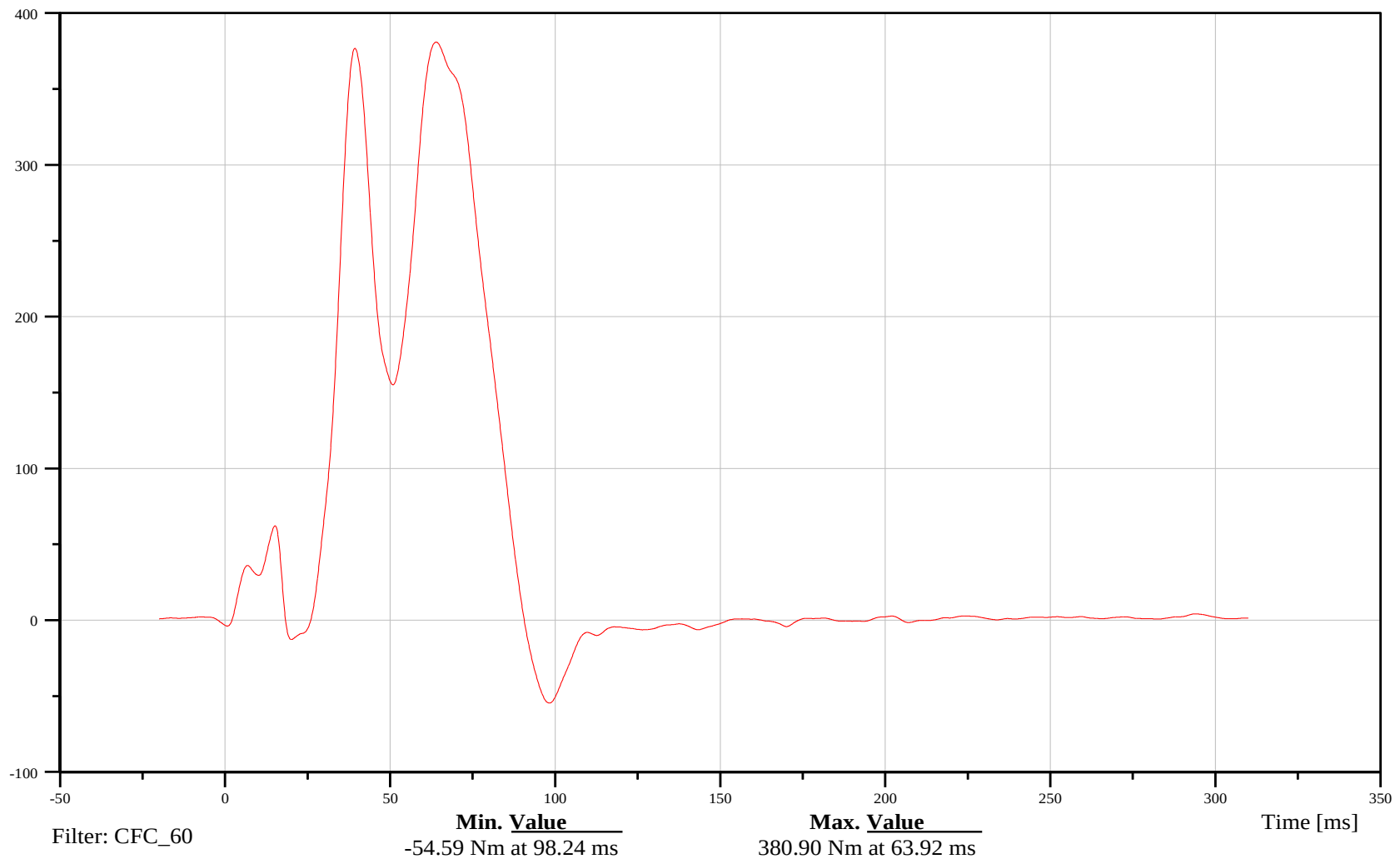
Date: 11/14/2013
Time: 15:28

BARRIER 9-7 My

Customer: VRTC
Test Number: 131114

B0FBAR090700MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

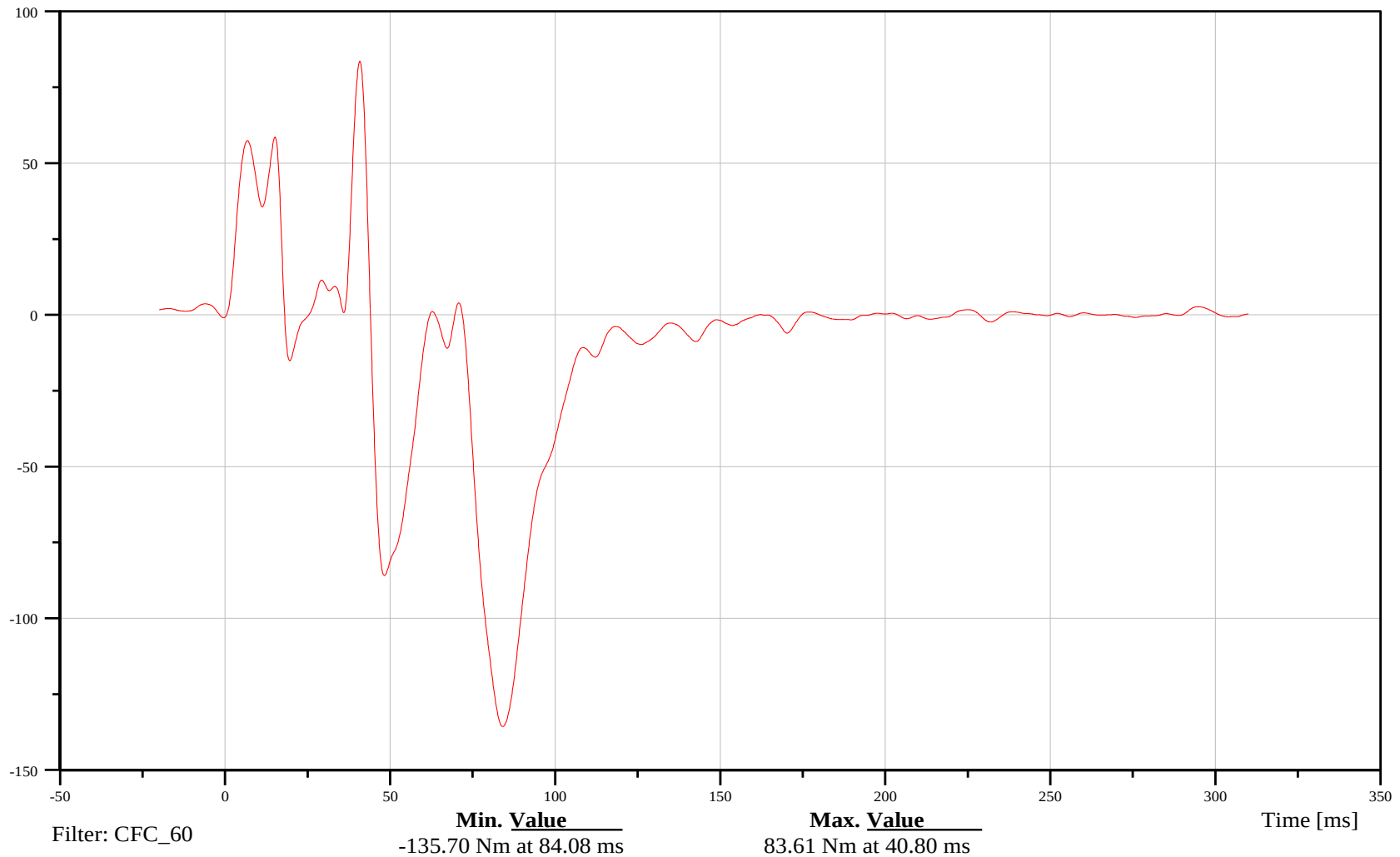
BARRIER 9-7 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090700MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

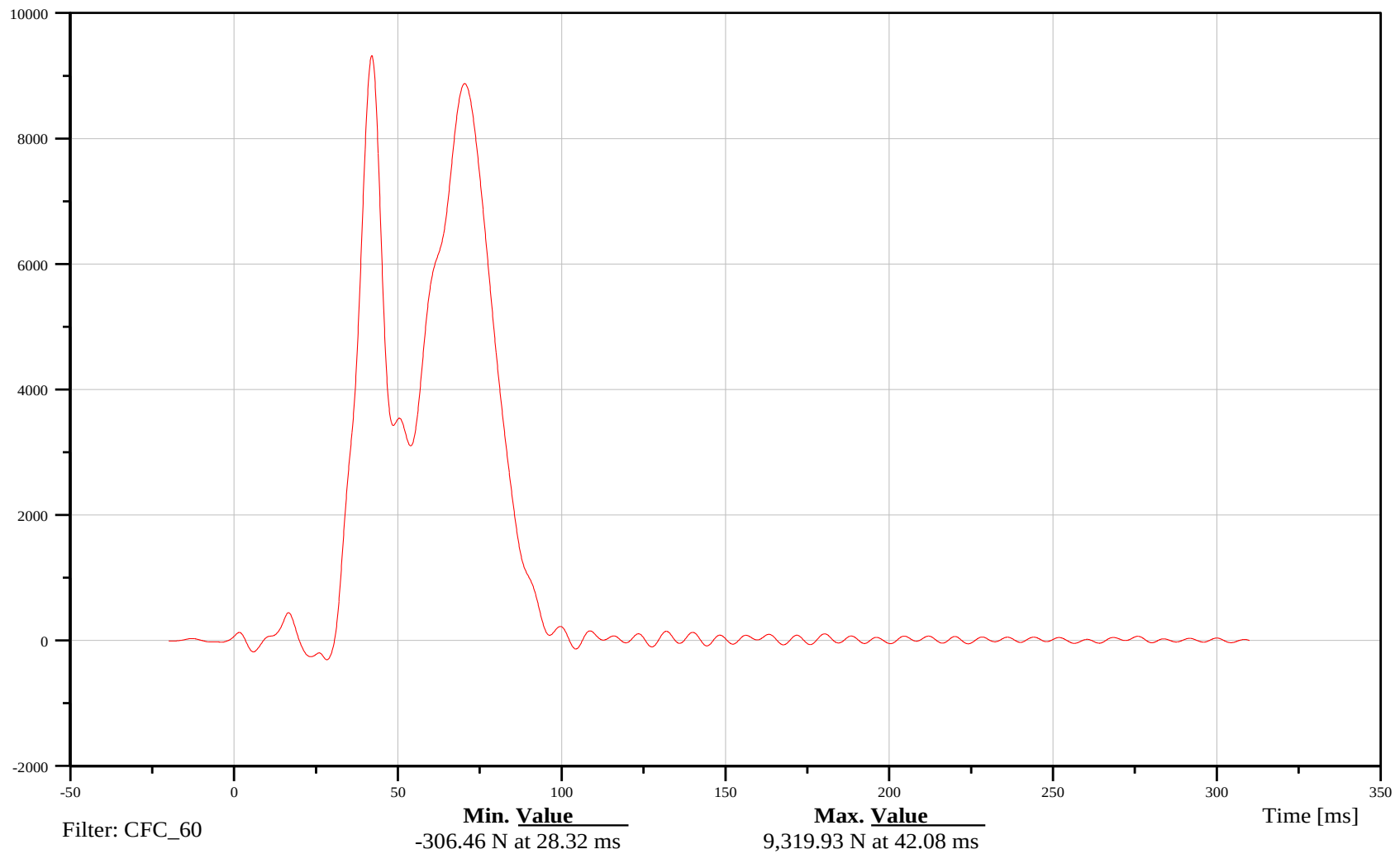
BARRIER 9-8 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090800FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

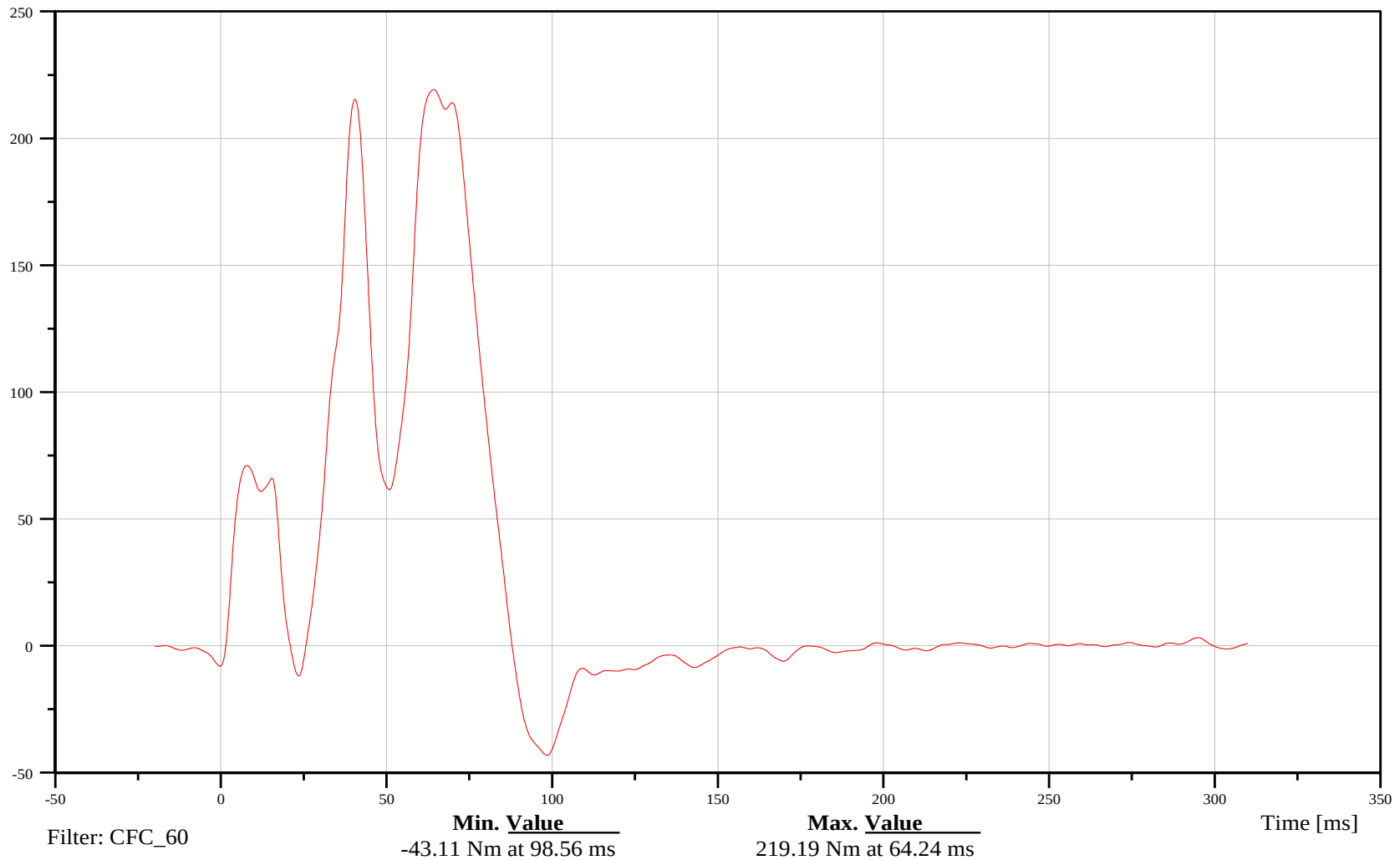
Date: 11/14/2013
Time: 15:28

BARRIER 9-8 My

Customer: VRTC
Test Number: 131114

B0FBAR090800MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

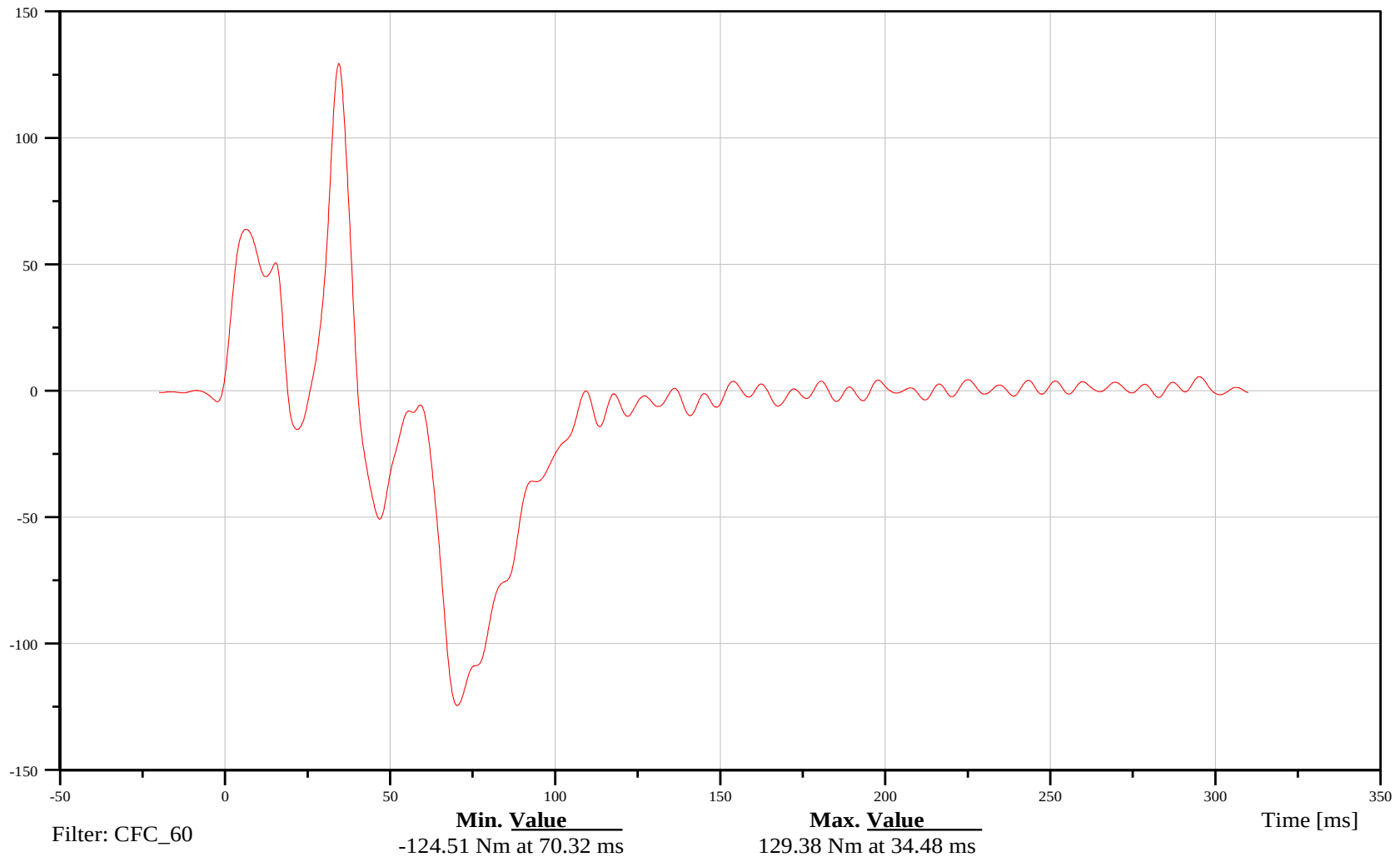
BARRIER 9-8 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090800MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

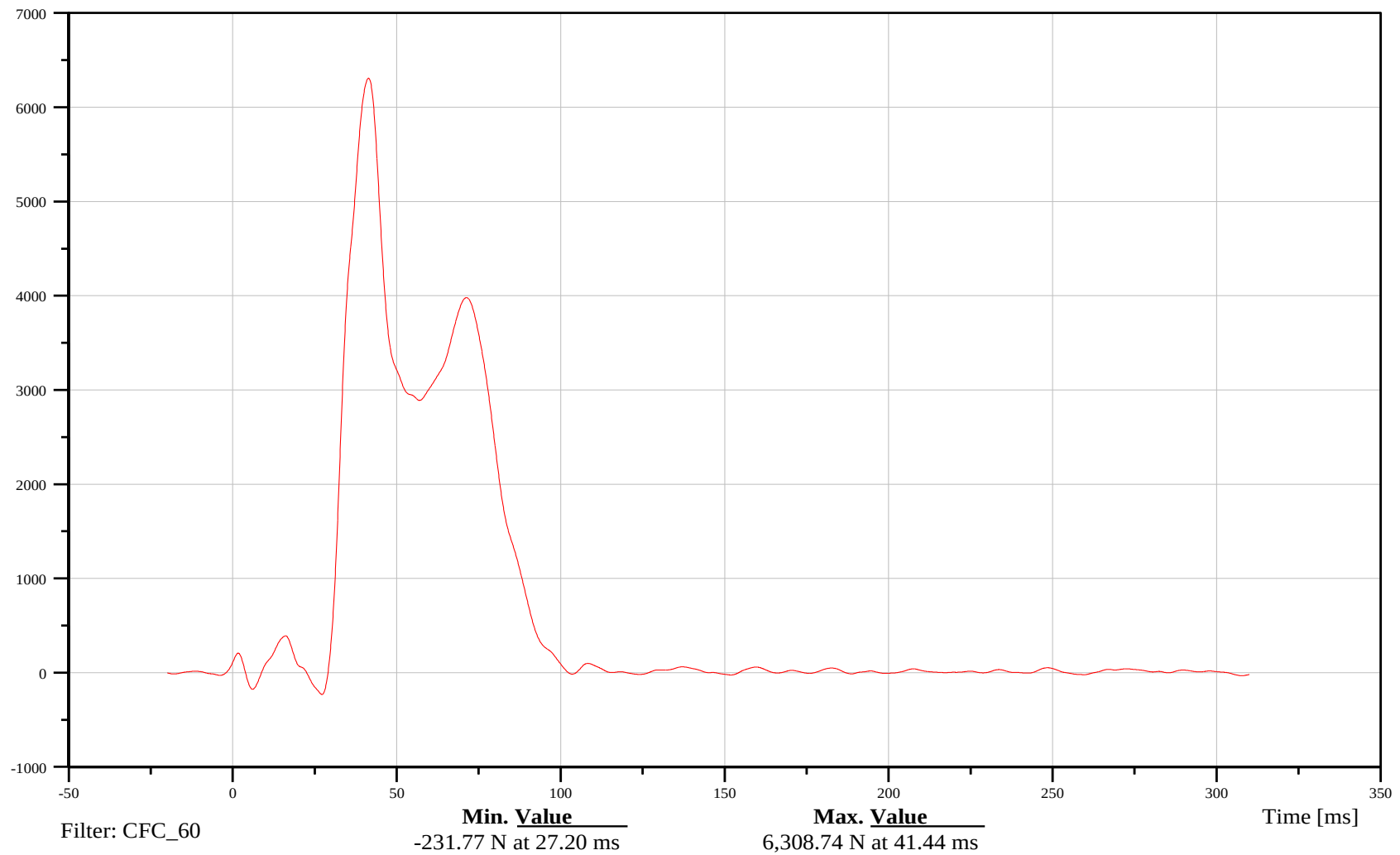
BARRIER 9-9 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090900FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

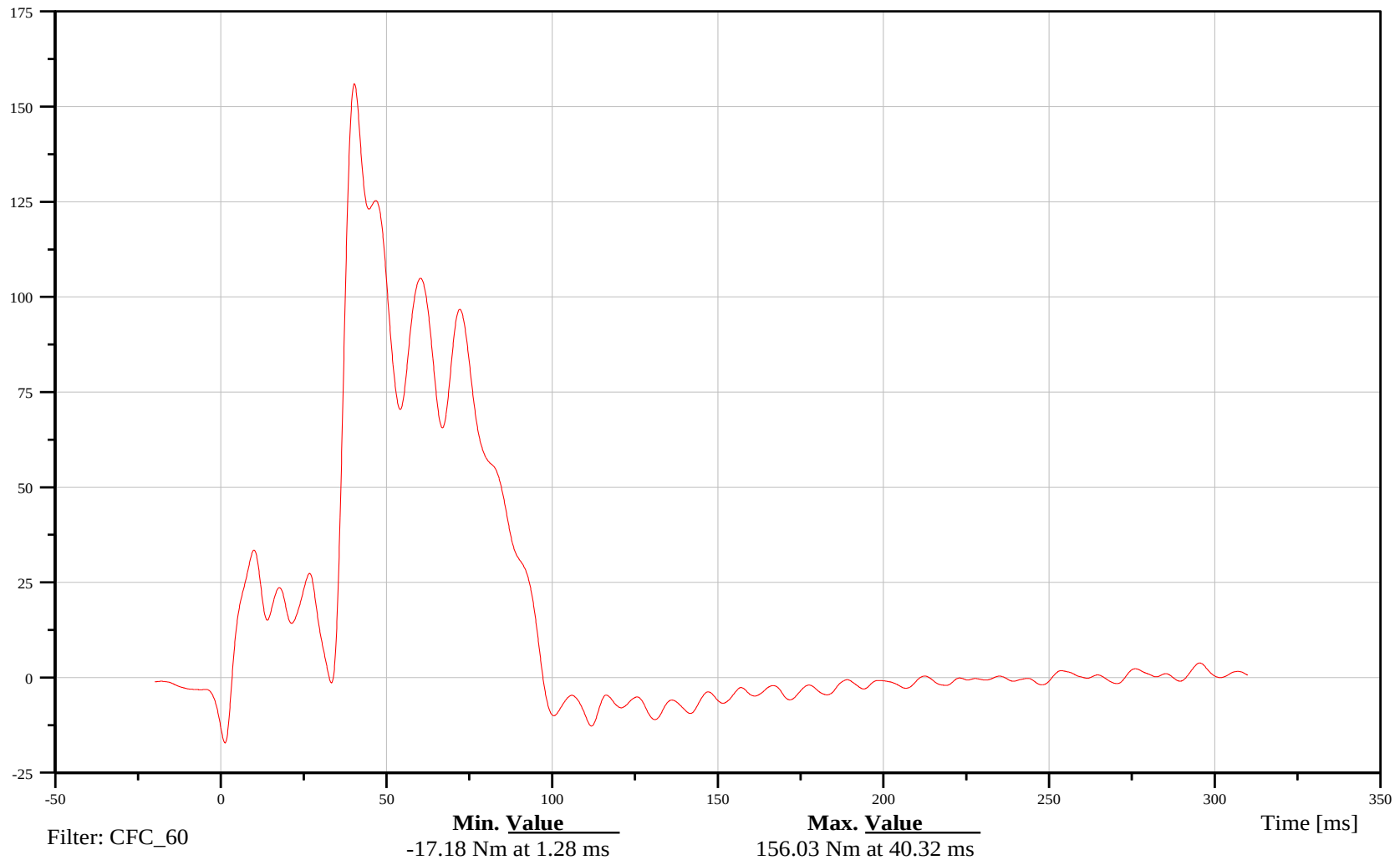
BARRIER 9-9 My

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090900MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

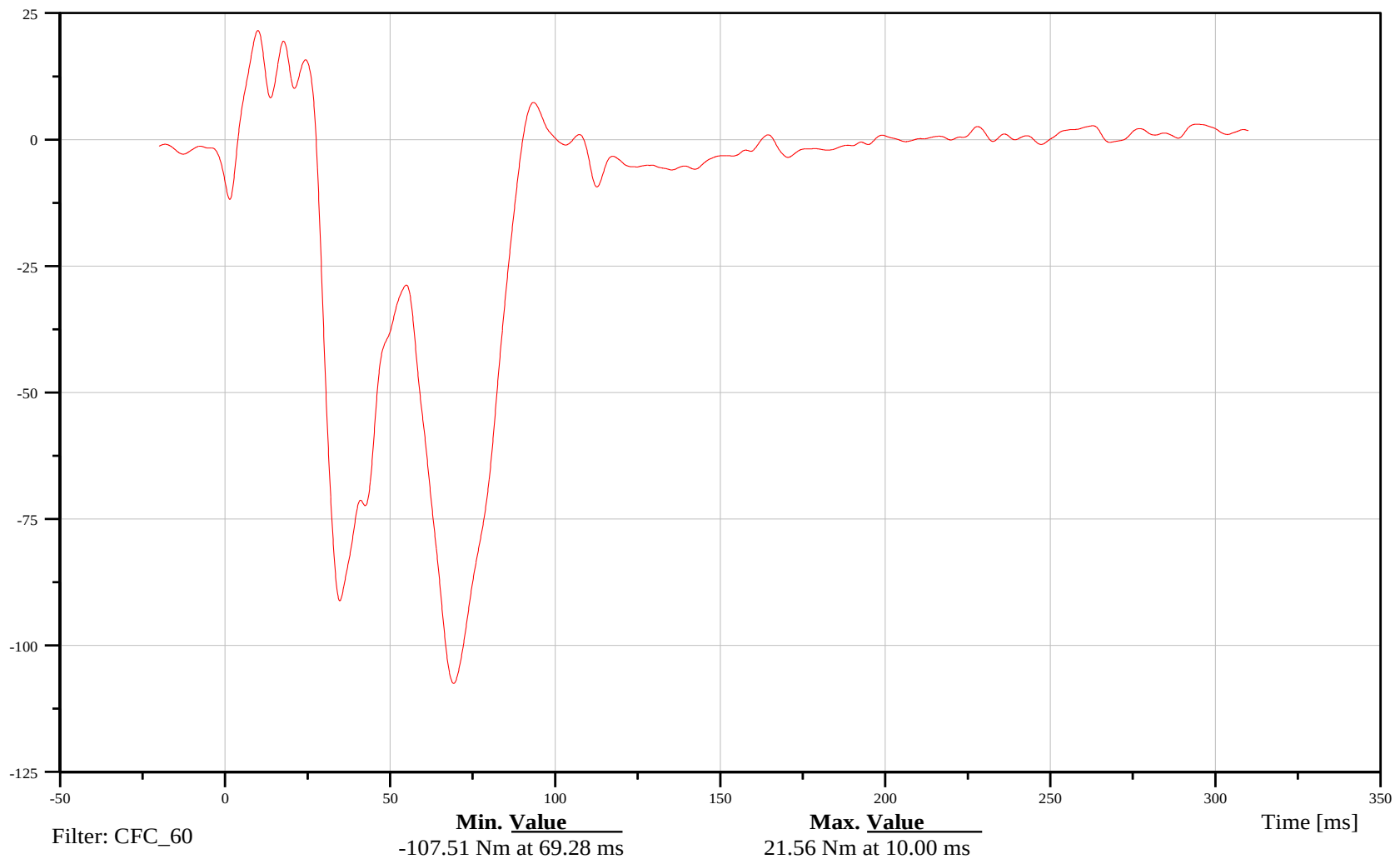
BARRIER 9-9 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR090900MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

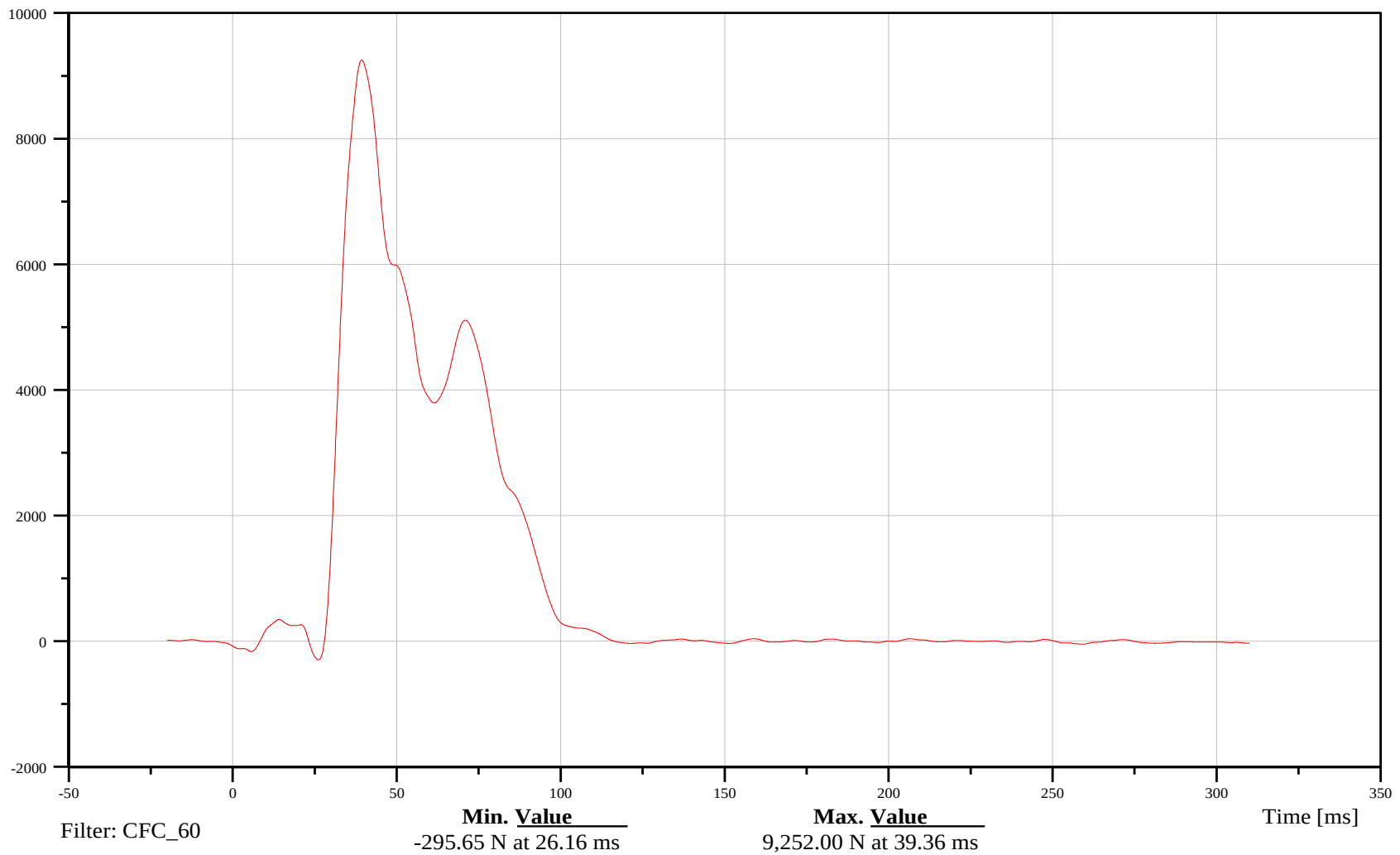
BARRIER 9-10 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR091000FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

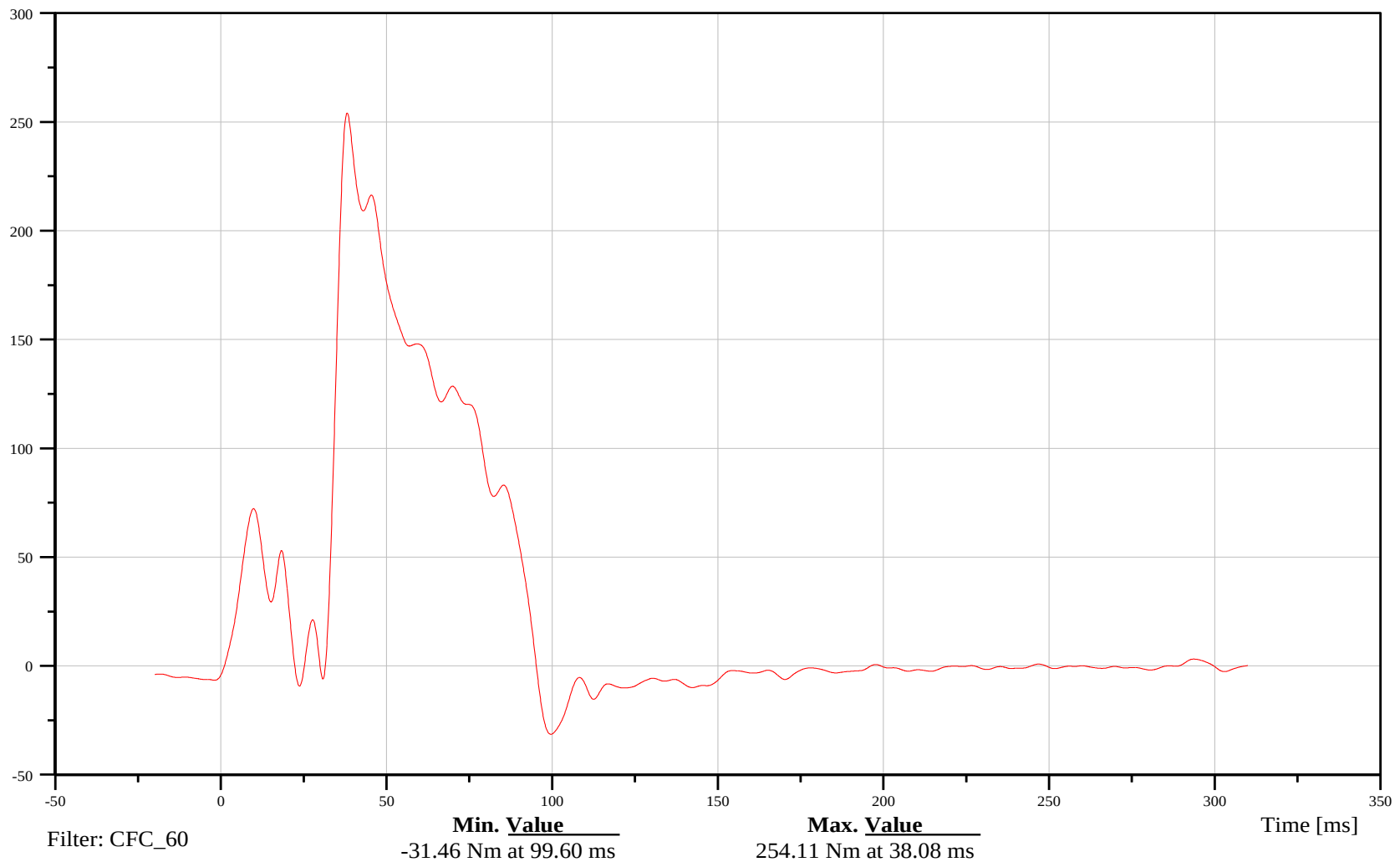
Date: 11/14/2013
Time: 15:28

BARRIER 9-10 My

Customer: VRTC
Test Number: 131114

B0FBAR091000MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

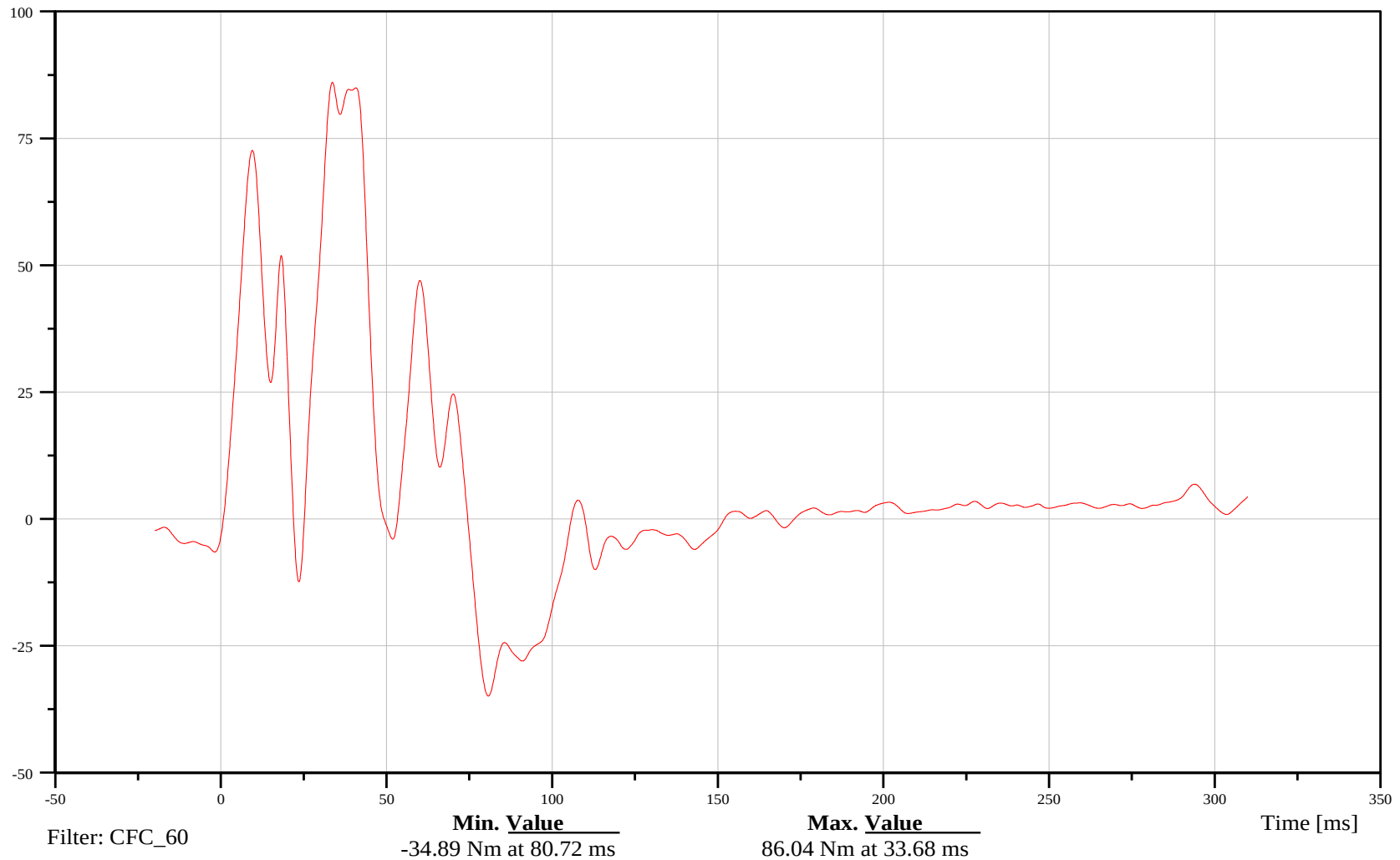
Date: 11/14/2013
Time: 15:28

BARRIER 9-10 Mz

Customer: VRTC
Test Number: 131114

B0FBAR091000MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

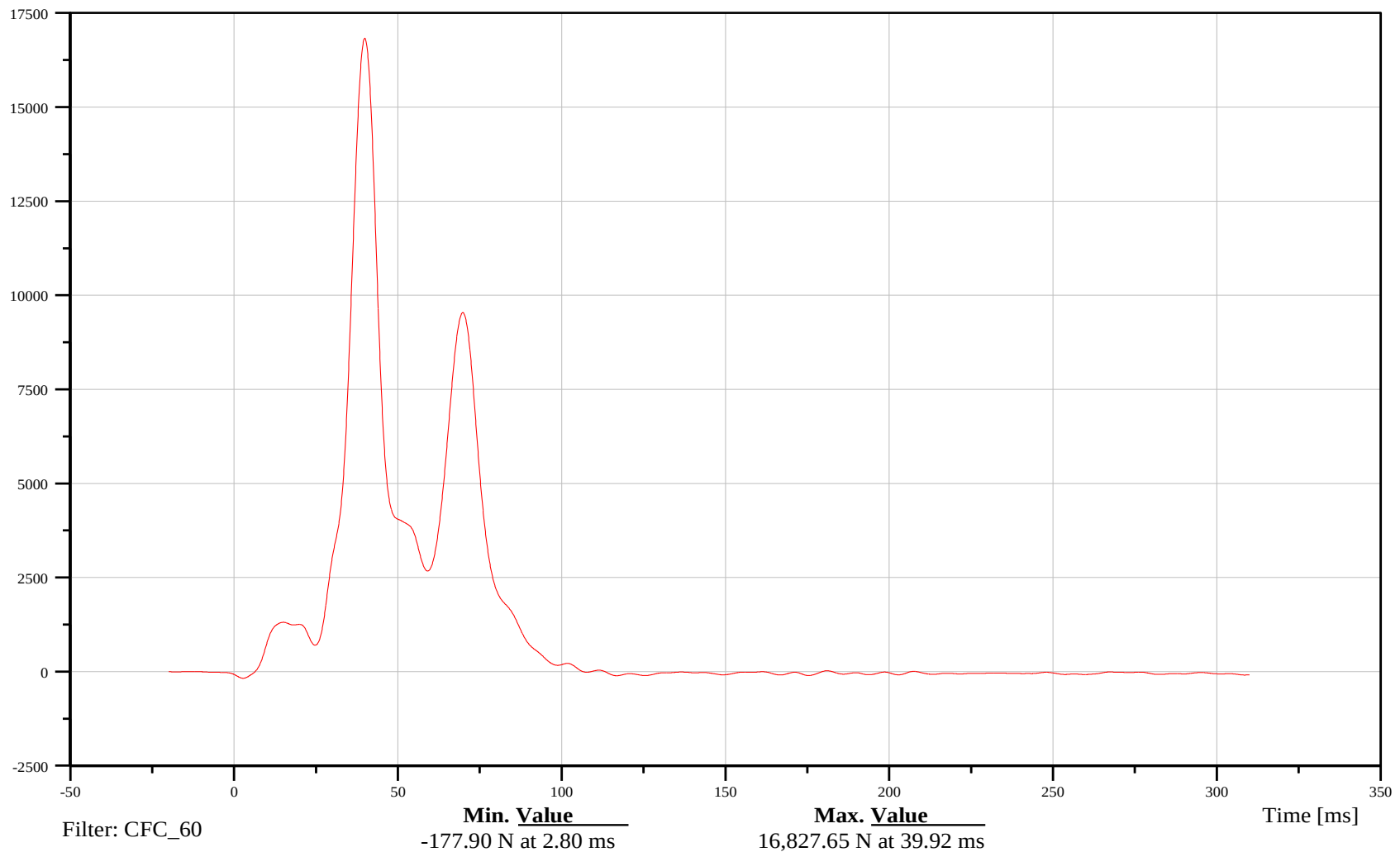
BARRIER 9-11 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR091100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

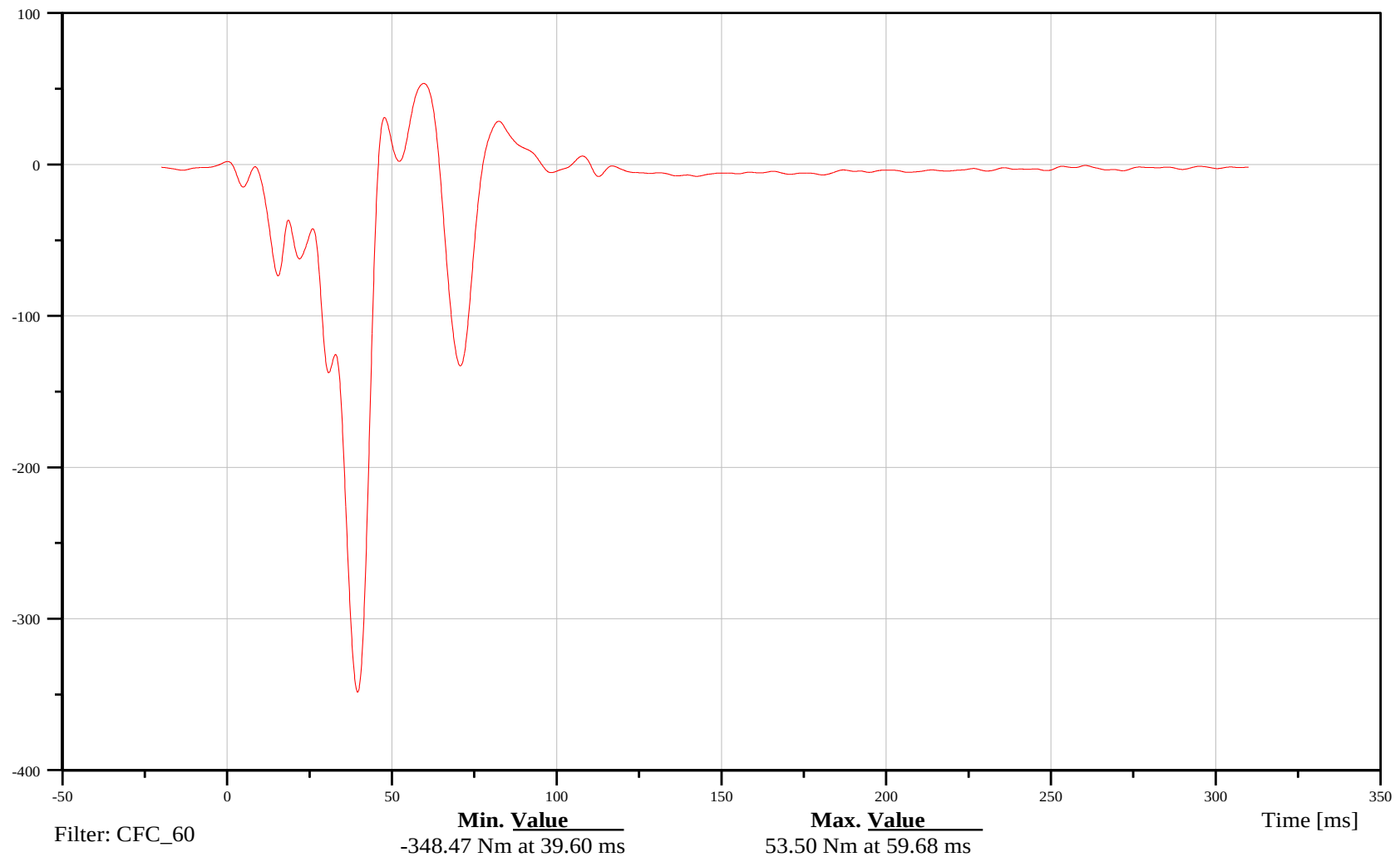
Date: 11/14/2013
Time: 15:28

BARRIER 9-11 My

Customer: VRTC
Test Number: 131114

B0FBAR091100MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

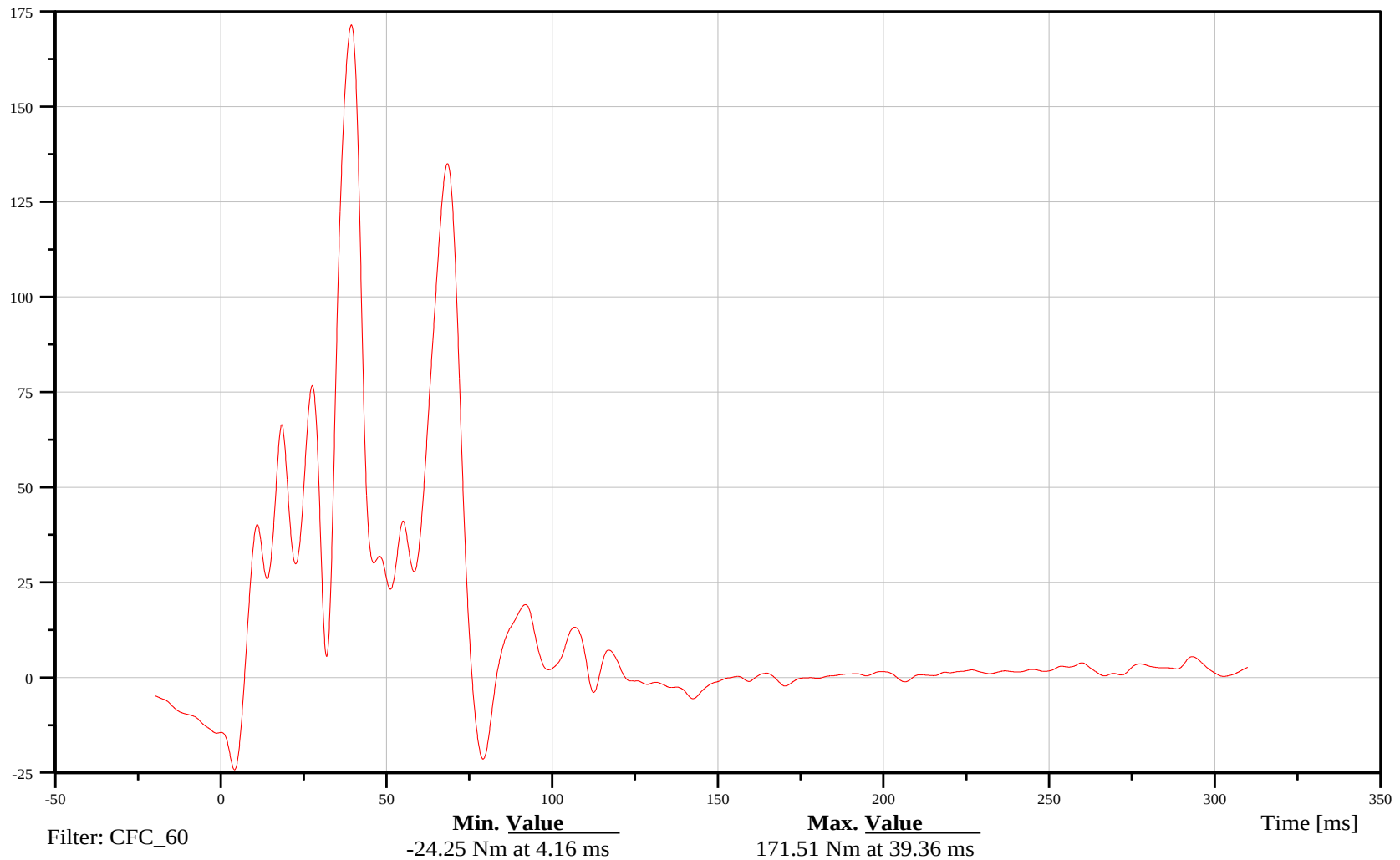
Date: 11/14/2013
Time: 15:28

BARRIER 9-11 Mz

Customer: VRTC
Test Number: 131114

B0FBAR091100MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

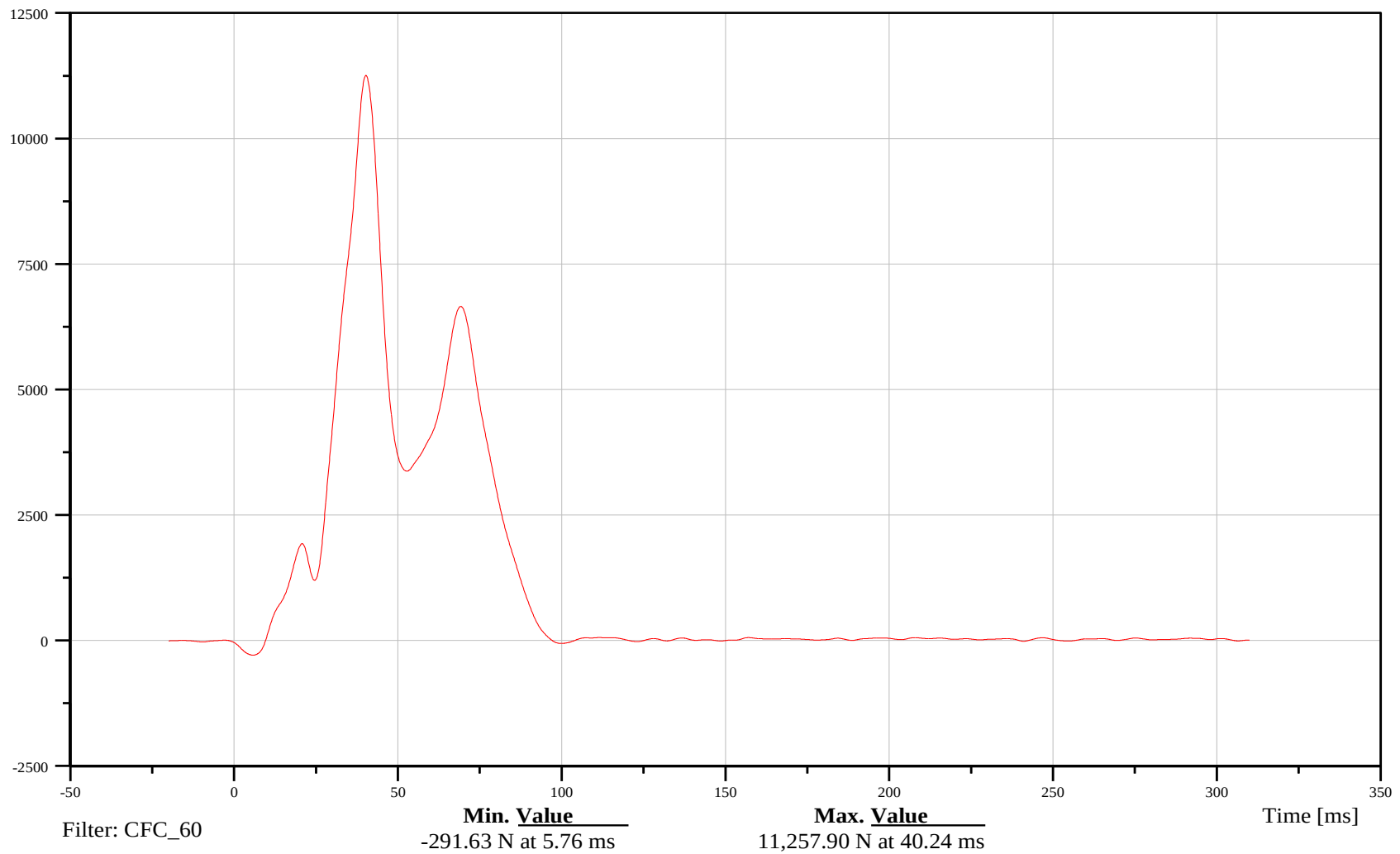
BARRIER 9-12 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR091200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

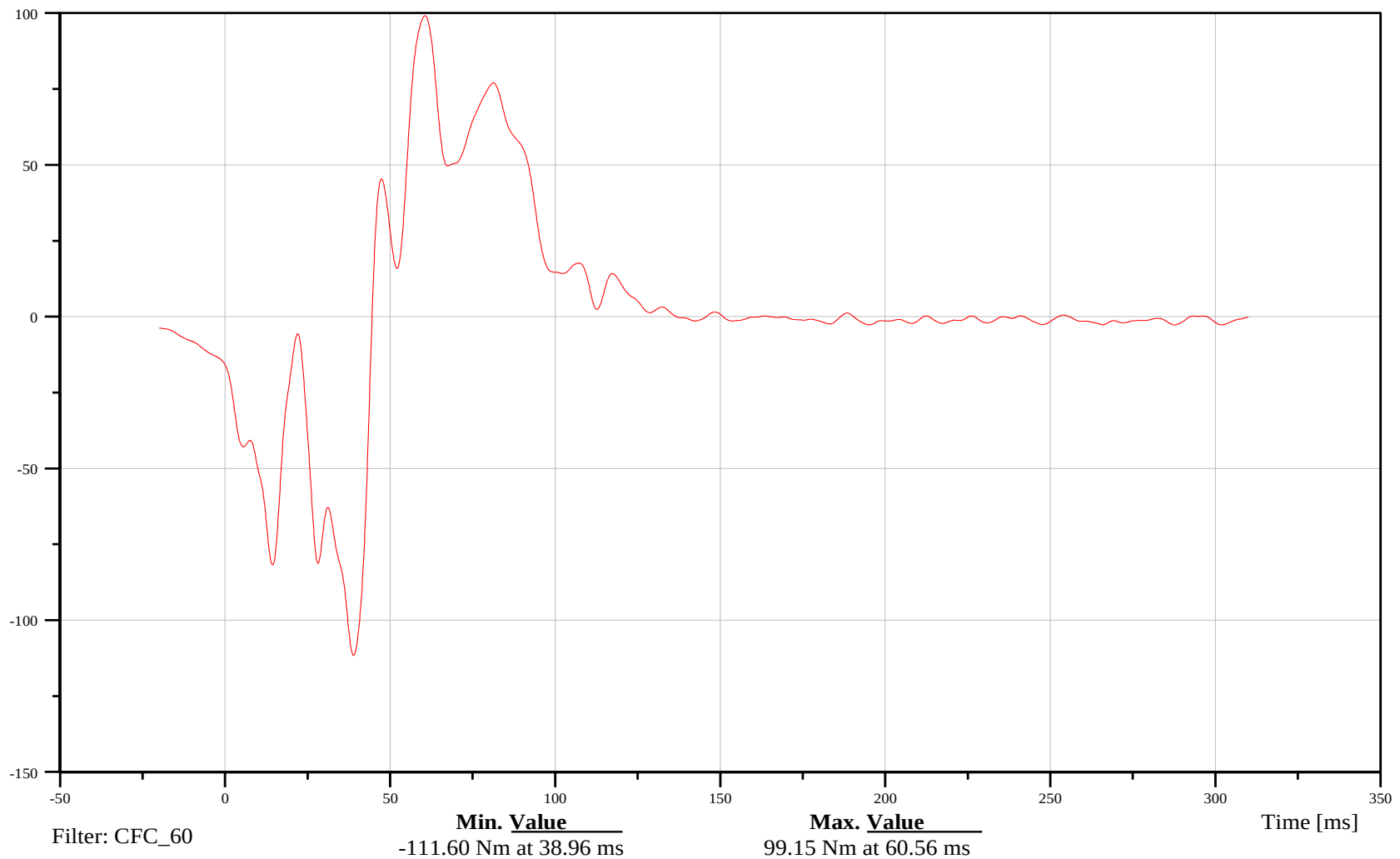
Date: 11/14/2013
Time: 15:28

BARRIER 9-12 My

Customer: VRTC
Test Number: 131114

B0FBAR091200MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

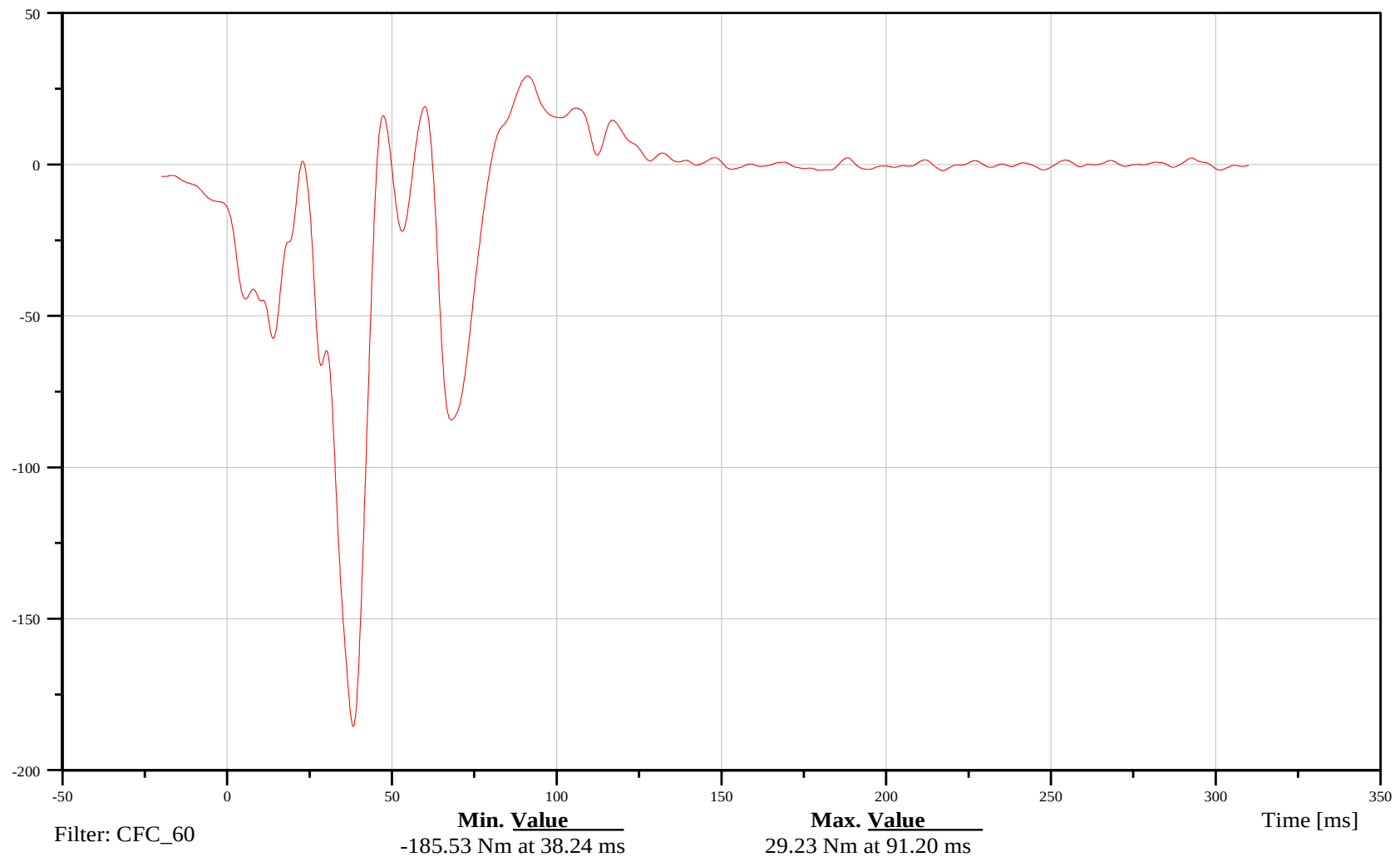
Date: 11/14/2013
Time: 15:28

BARRIER 9-12 Mz

Customer: VRTC
Test Number: 131114

B0FBAR091200MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

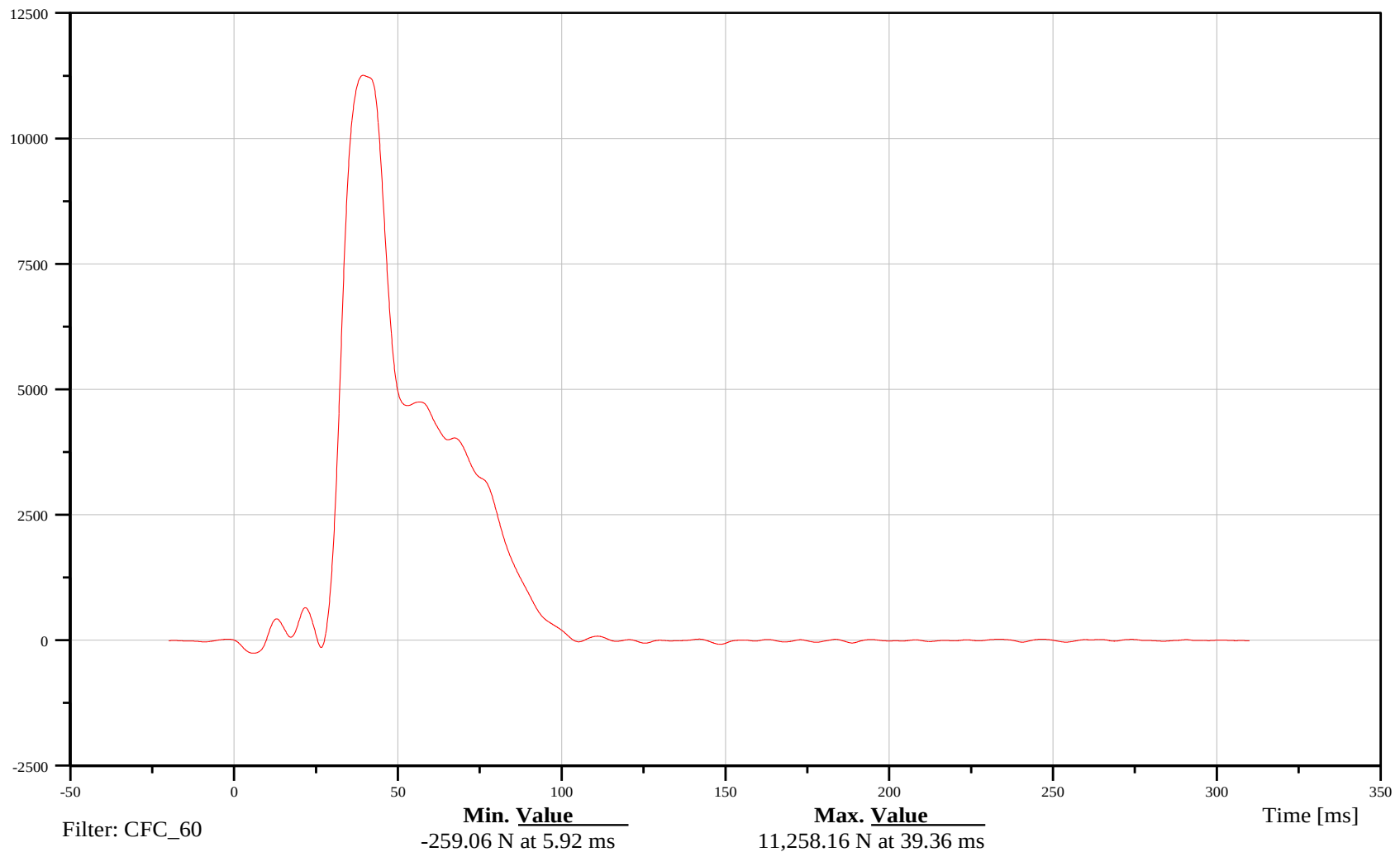
BARRIER 9-13 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR091300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

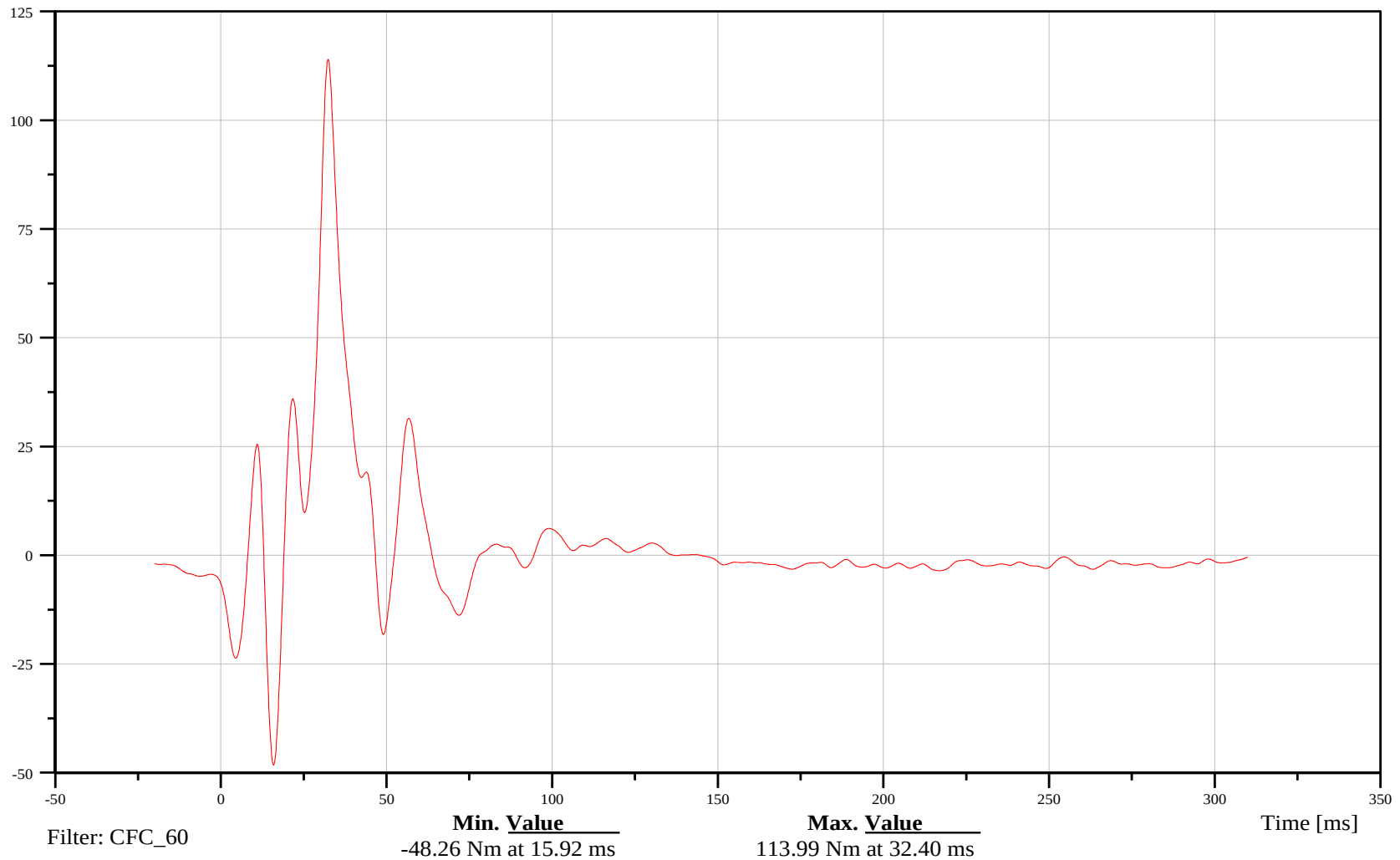
Date: 11/14/2013
Time: 15:28

BARRIER 9-13 MY

Customer: VRTC
Test Number: 131114

B0FBAR091300MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

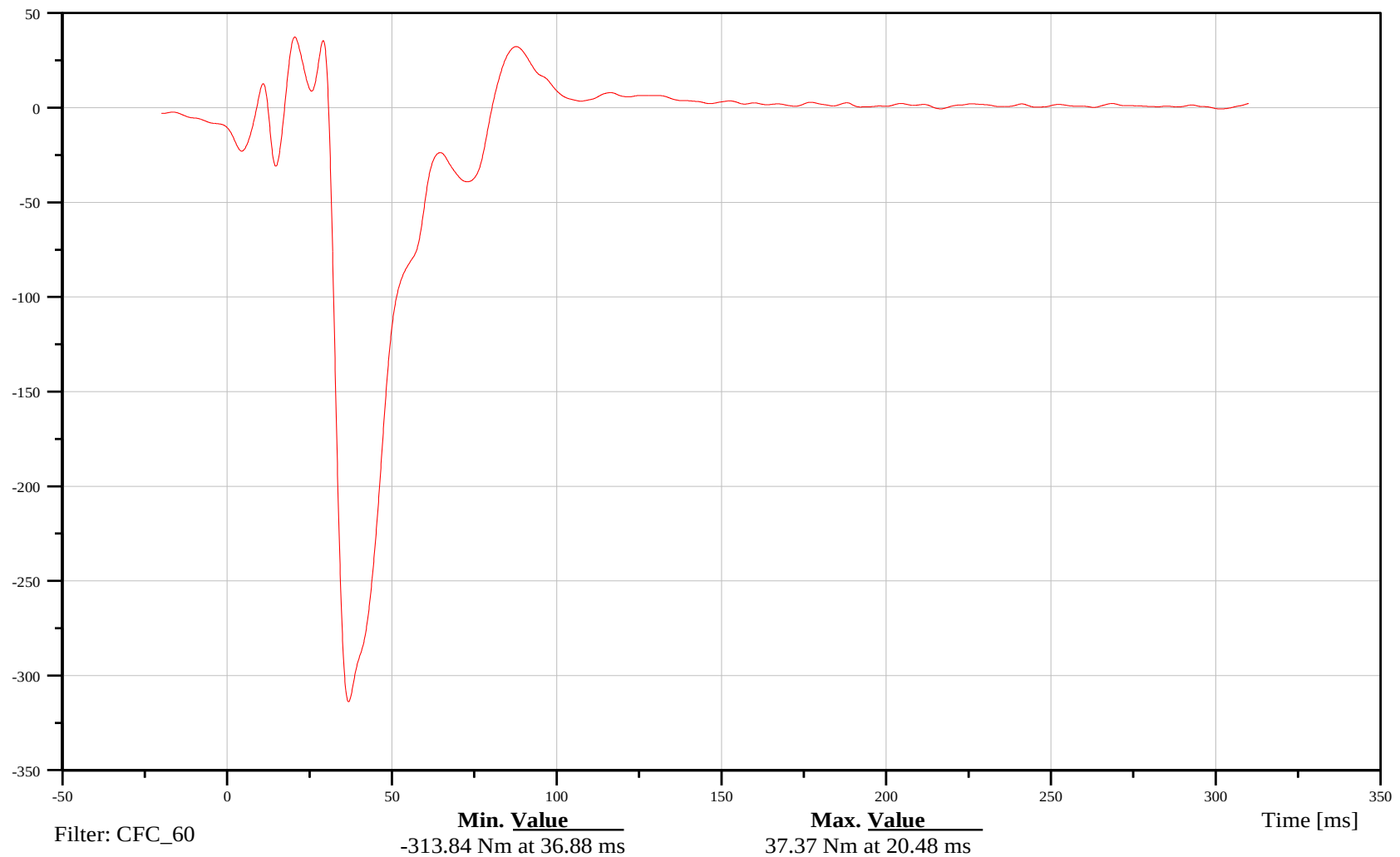
BARRIER 9-13 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR091300MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

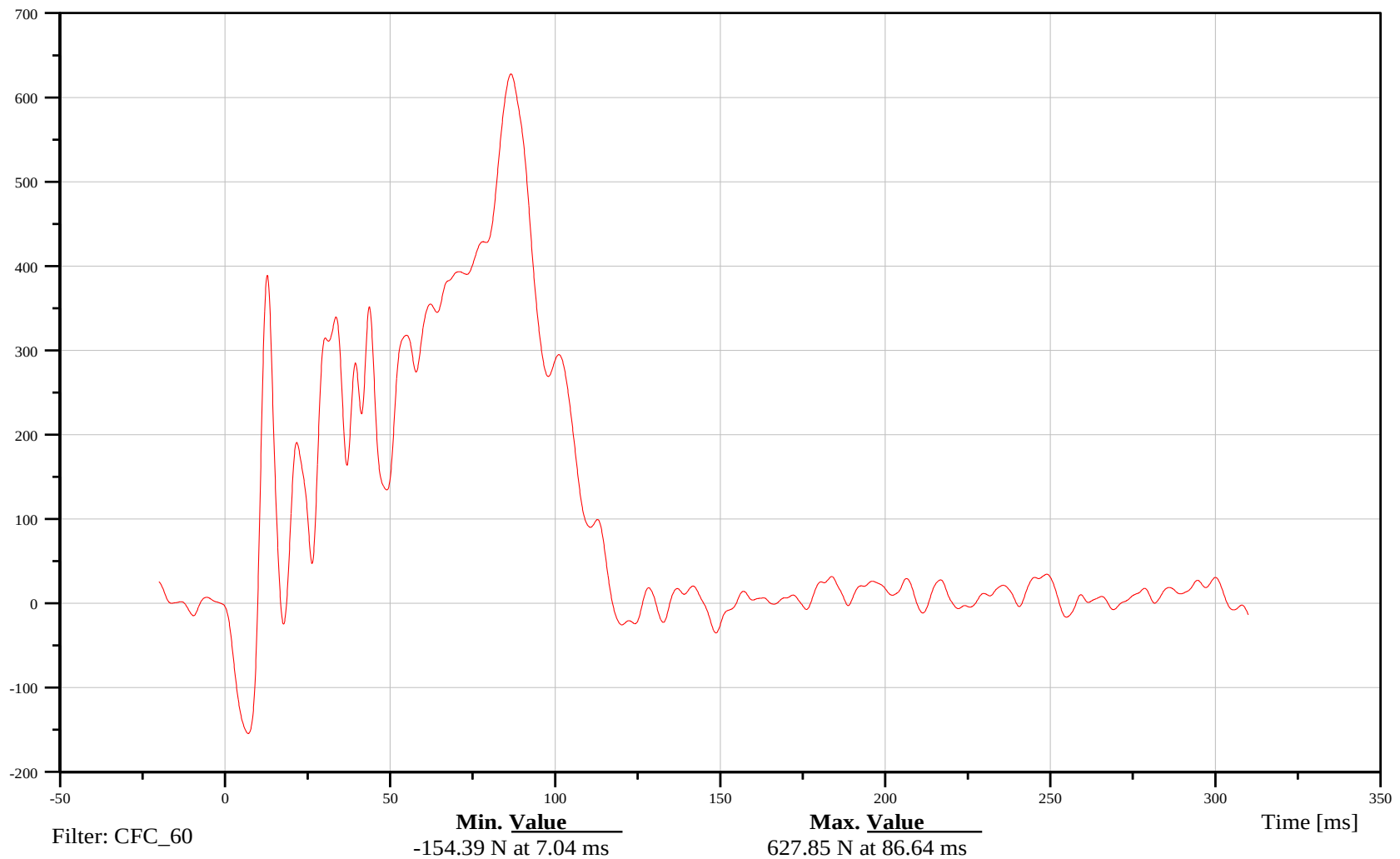
BARRIER 9-14 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR091400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

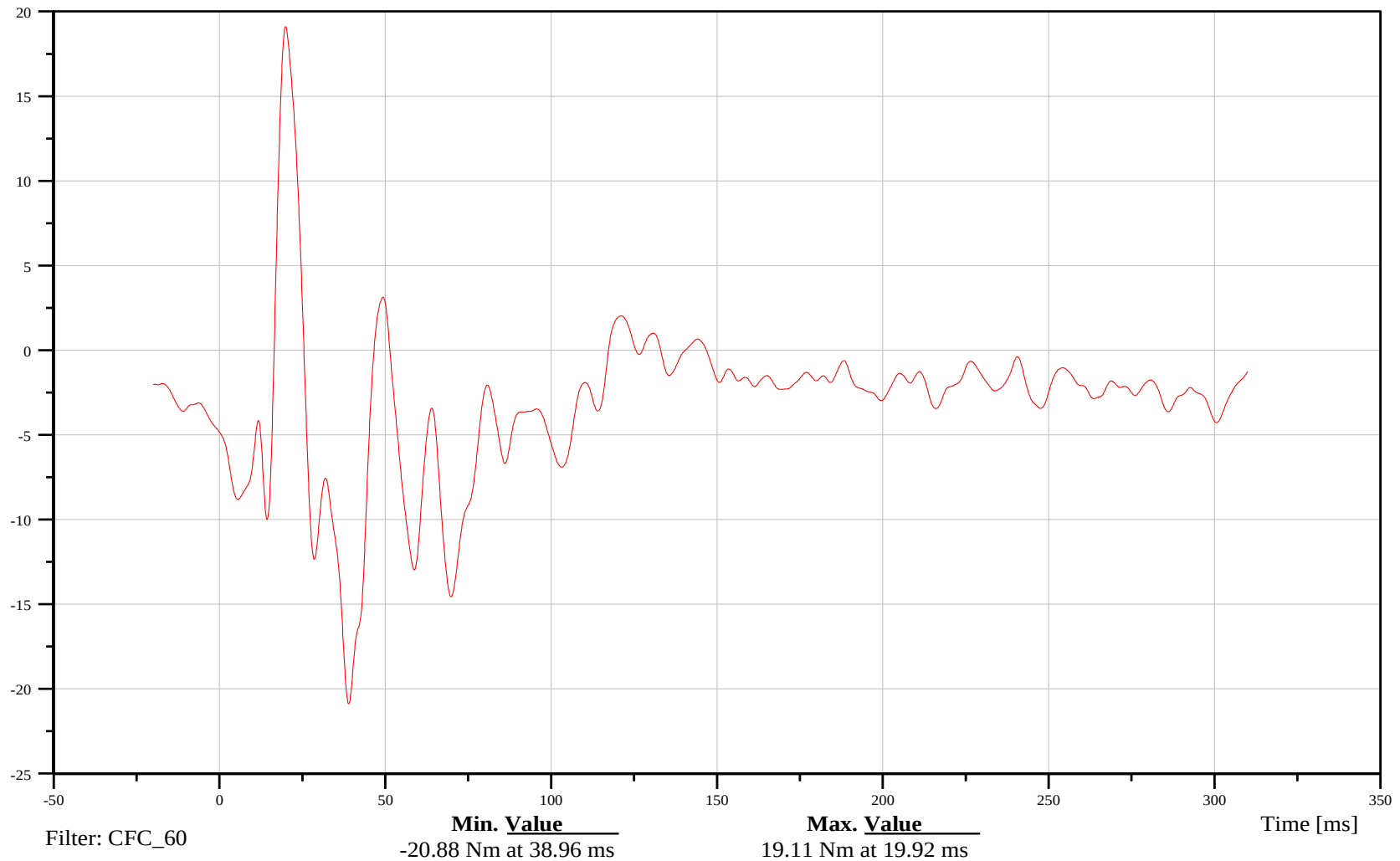
Date: 11/14/2013
Time: 15:28

BARRIER 9-14 My

Customer: VRTC
Test Number: 131114

B0FBAR091400MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

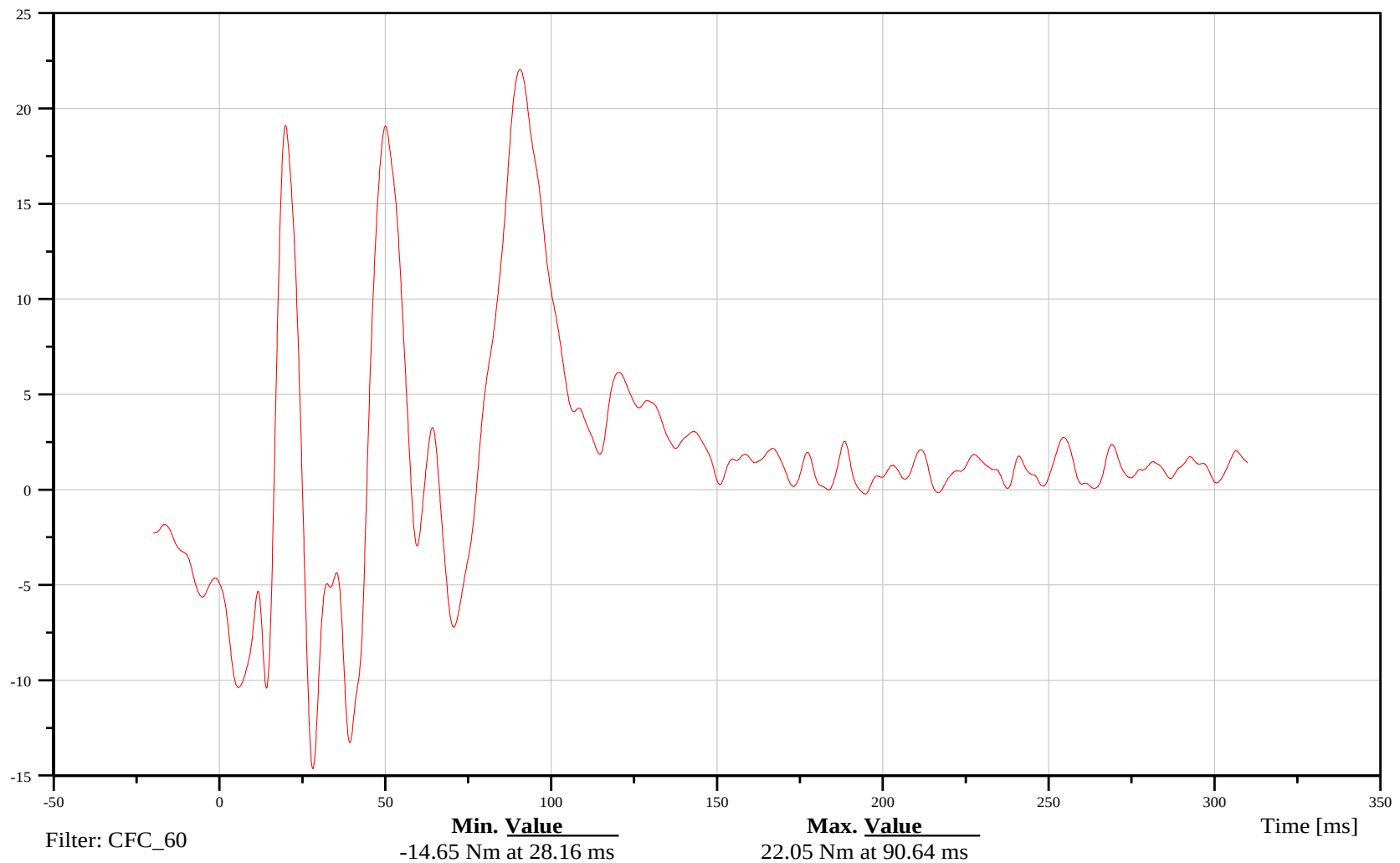
Date: 11/14/2013
Time: 15:28

BARRIER 9-14 Mz

Customer: VRTC
Test Number: 131114

B0FBAR091400MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

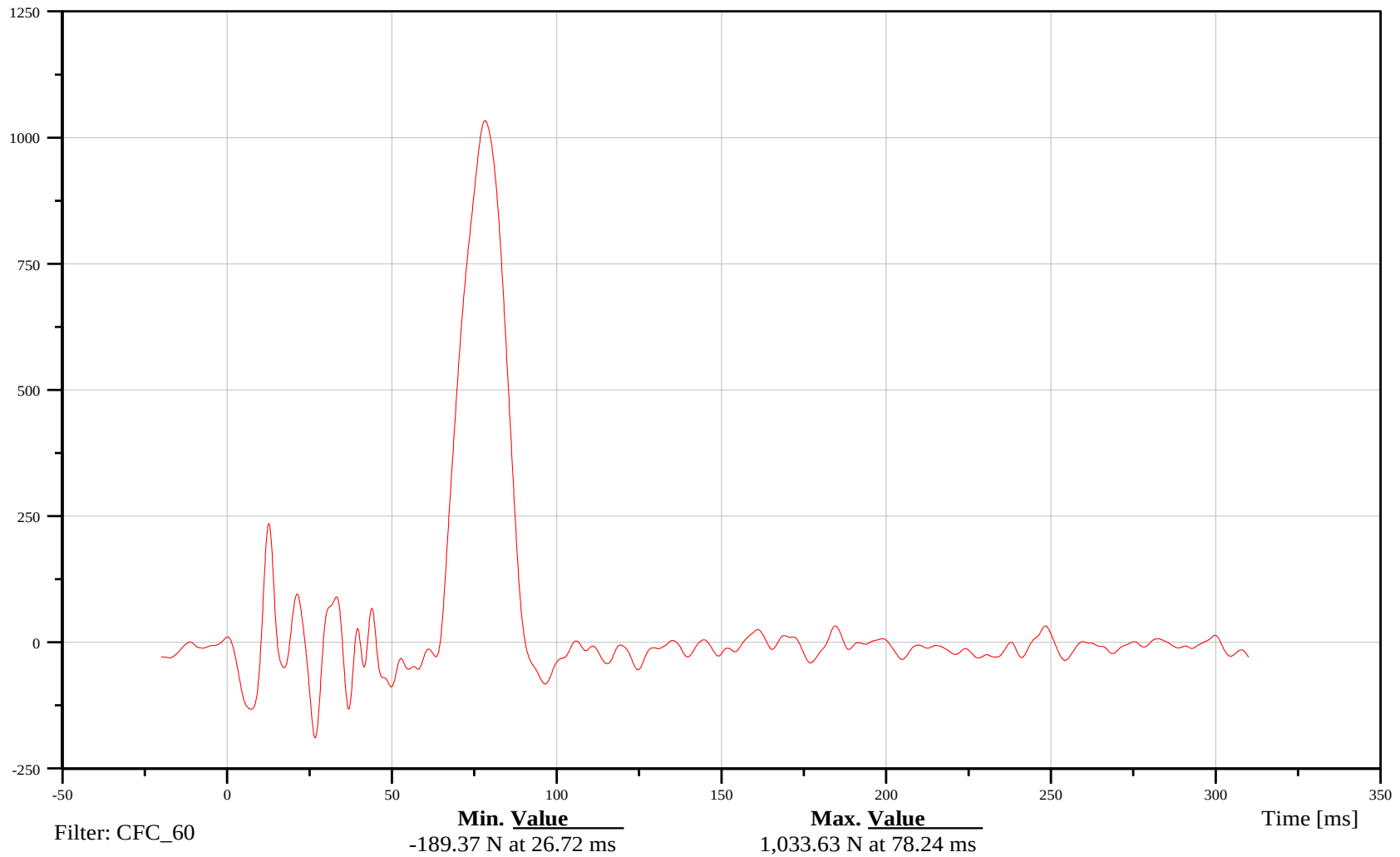
BARRIER 9-15 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR091500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

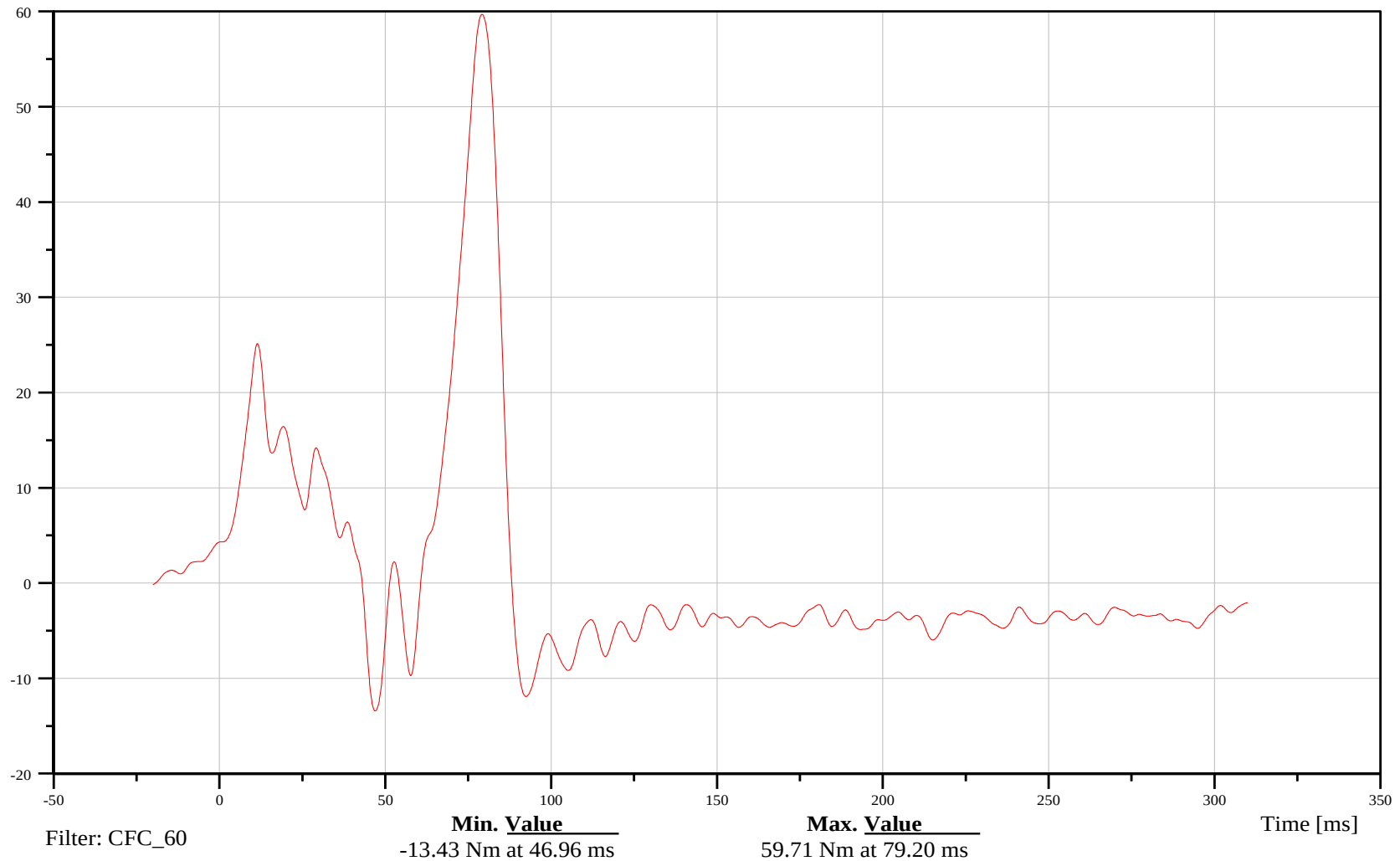
Date: 11/14/2013
Time: 15:28

BARRIER 9-15 My

Customer: VRTC
Test Number: 131114

B0FBAR091500MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

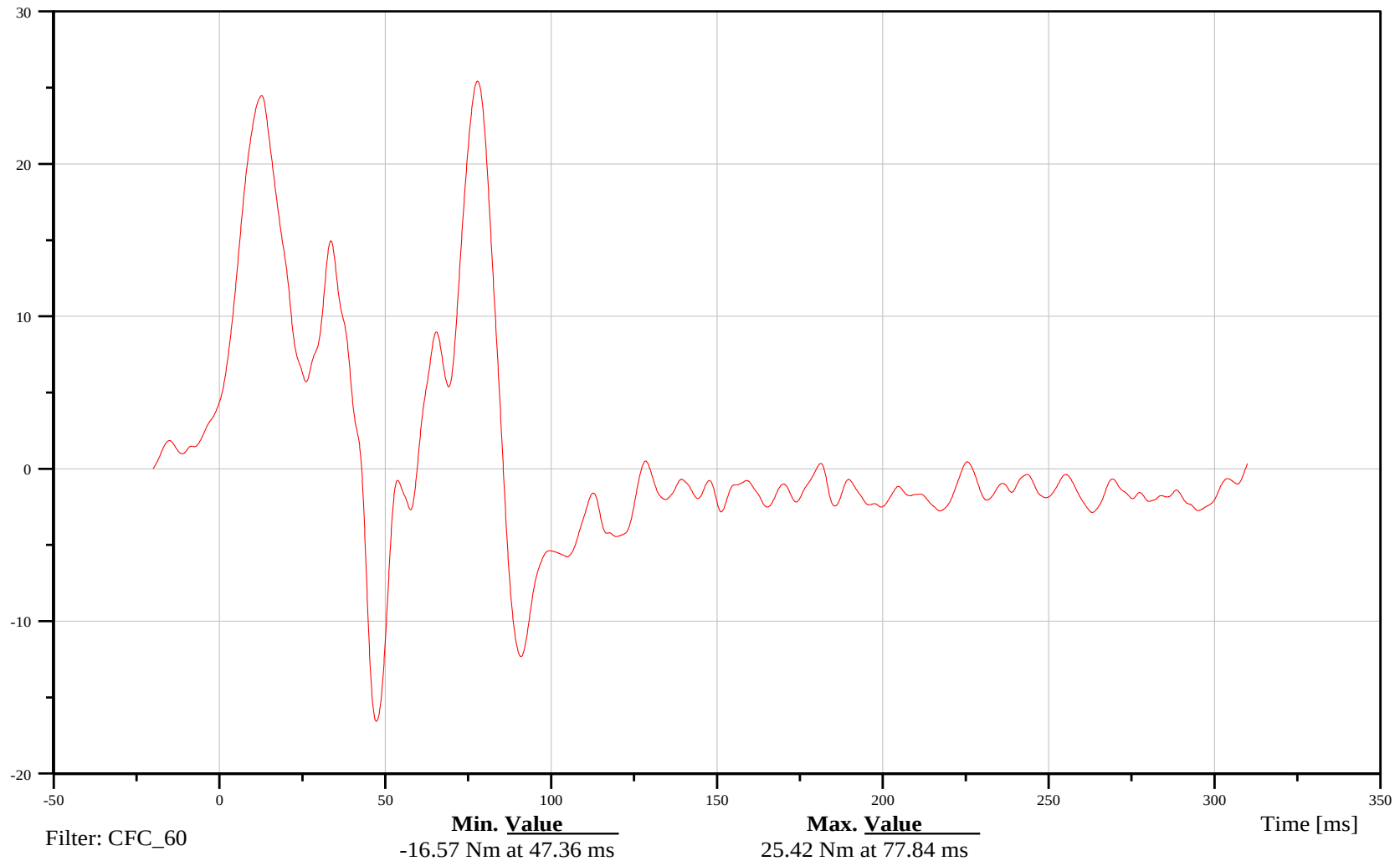
Date: 11/14/2013
Time: 15:28

BARRIER 9-15 Mz

Customer: VRTC
Test Number: 131114

B0FBAR091500MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

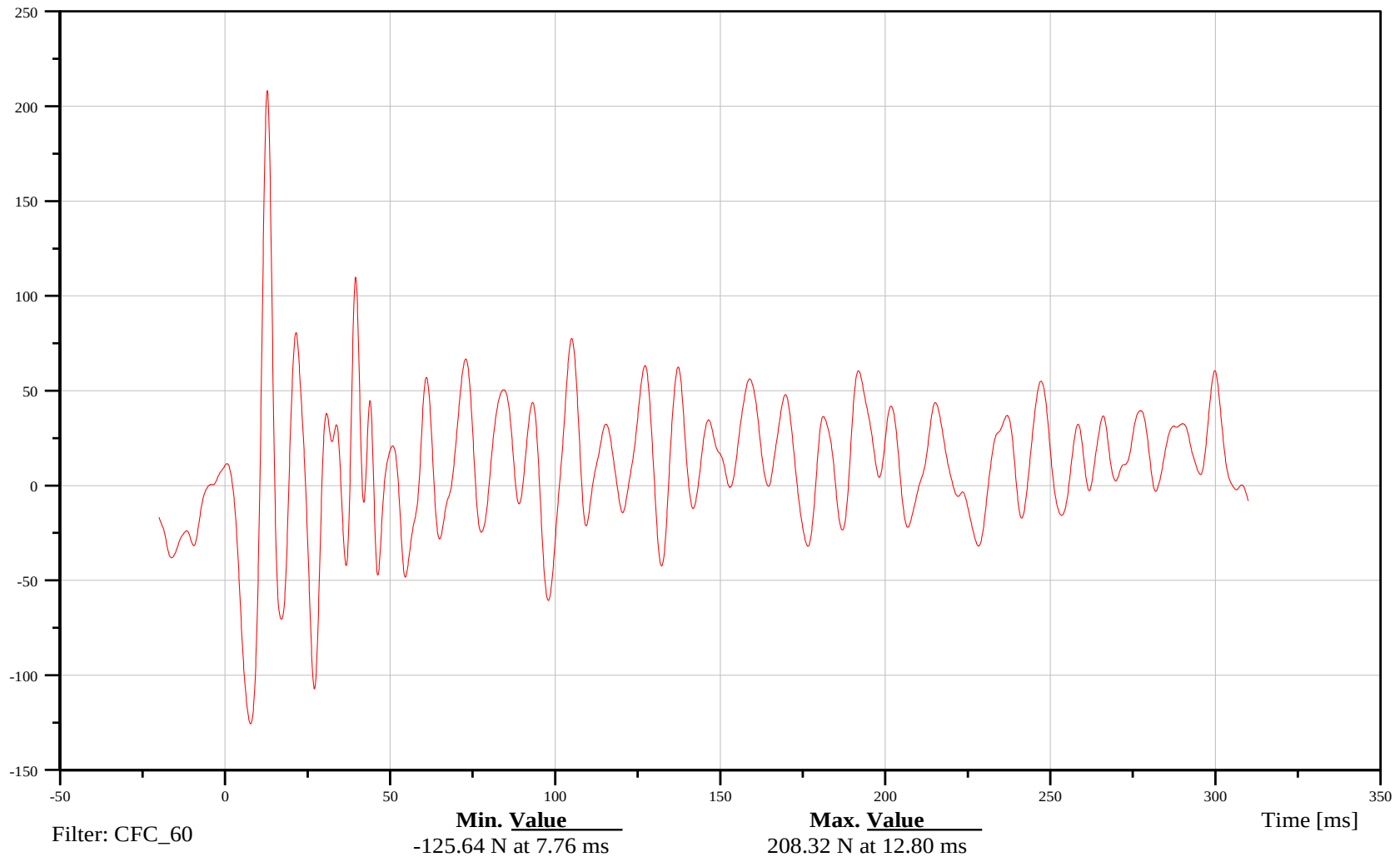
BARRIER 9-16 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR091600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

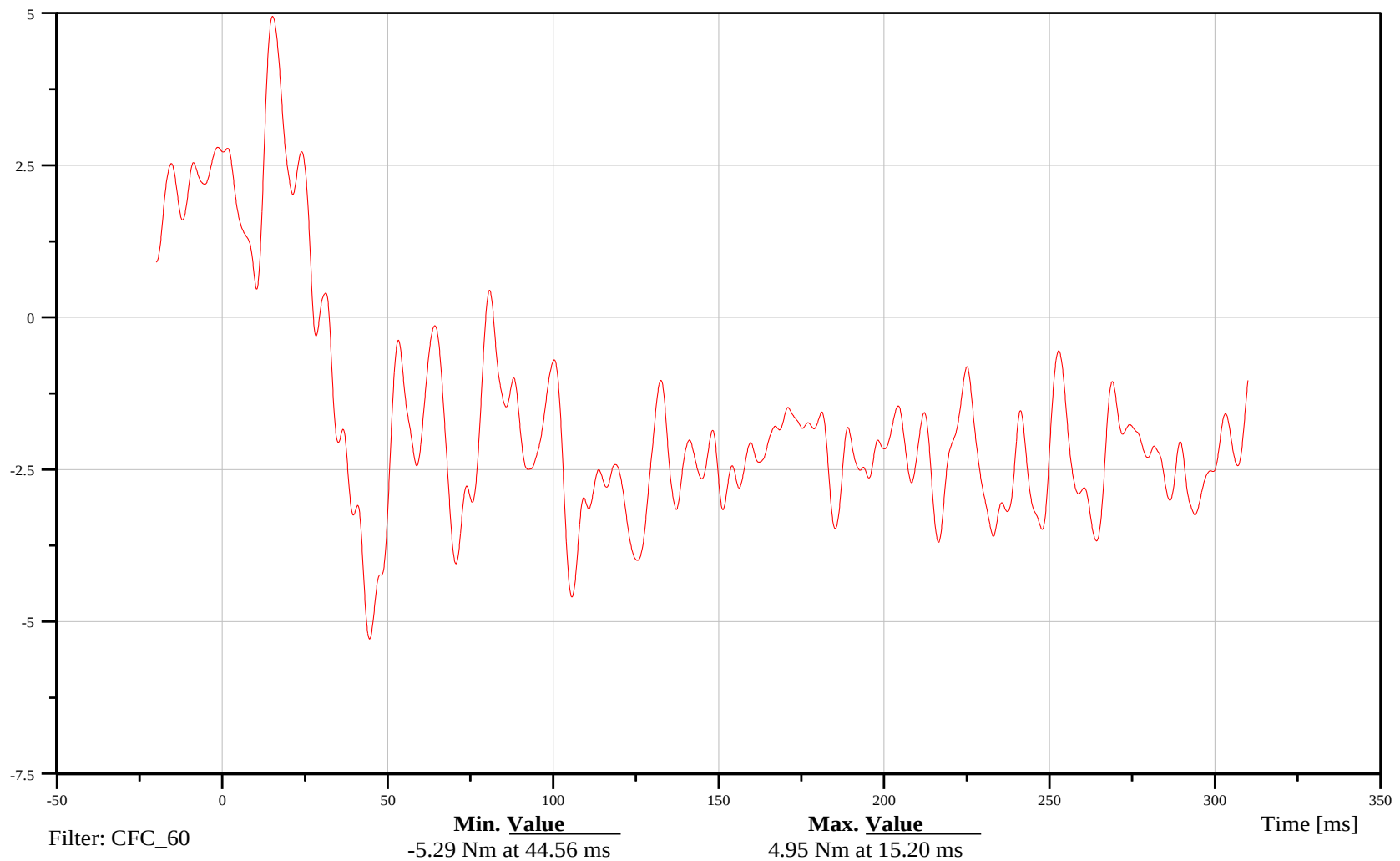
Date: 11/14/2013
Time: 15:28

BARRIER 9-16 My

Customer: VRTC
Test Number: 131114

B0FBAR091600MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

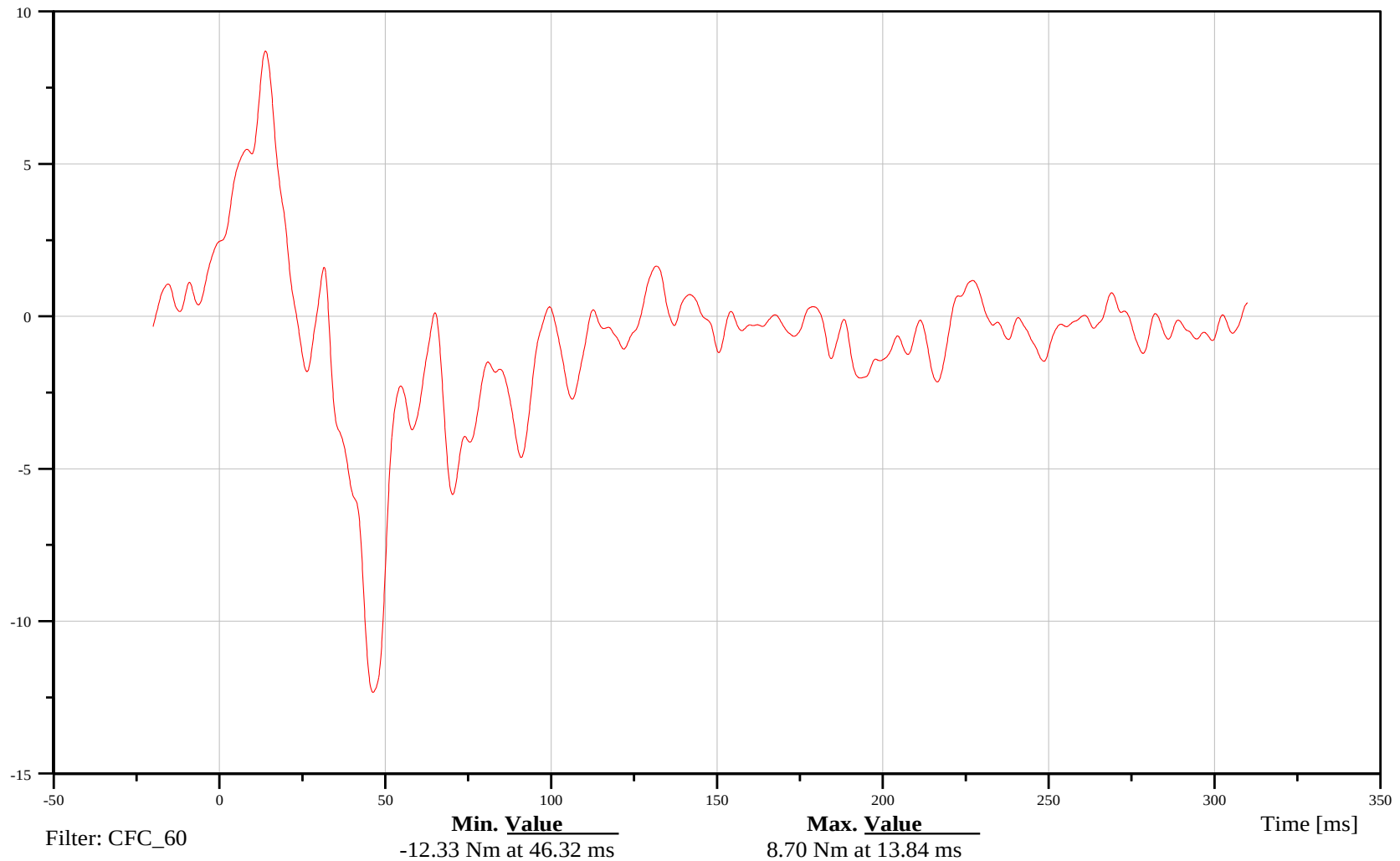
Date: 11/14/2013
Time: 15:28

BARRIER 9-16 Mz

Customer: VRTC
Test Number: 131114

B0FBAR091600MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

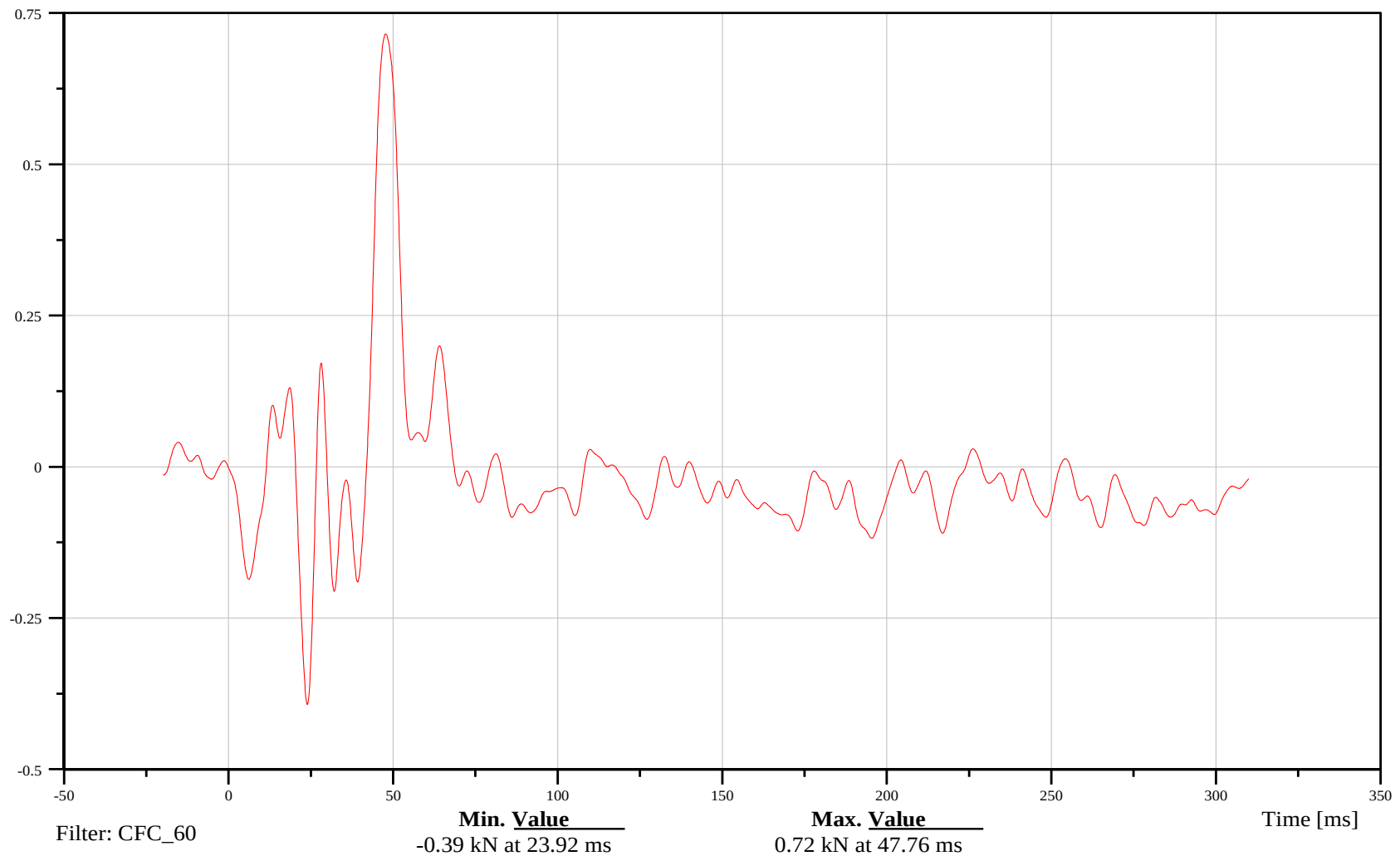
Date: 11/14/2013
Time: 15:28

BARRIER 6-1

Customer: VRTC
Test Number: 131114

B0FBAR060100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

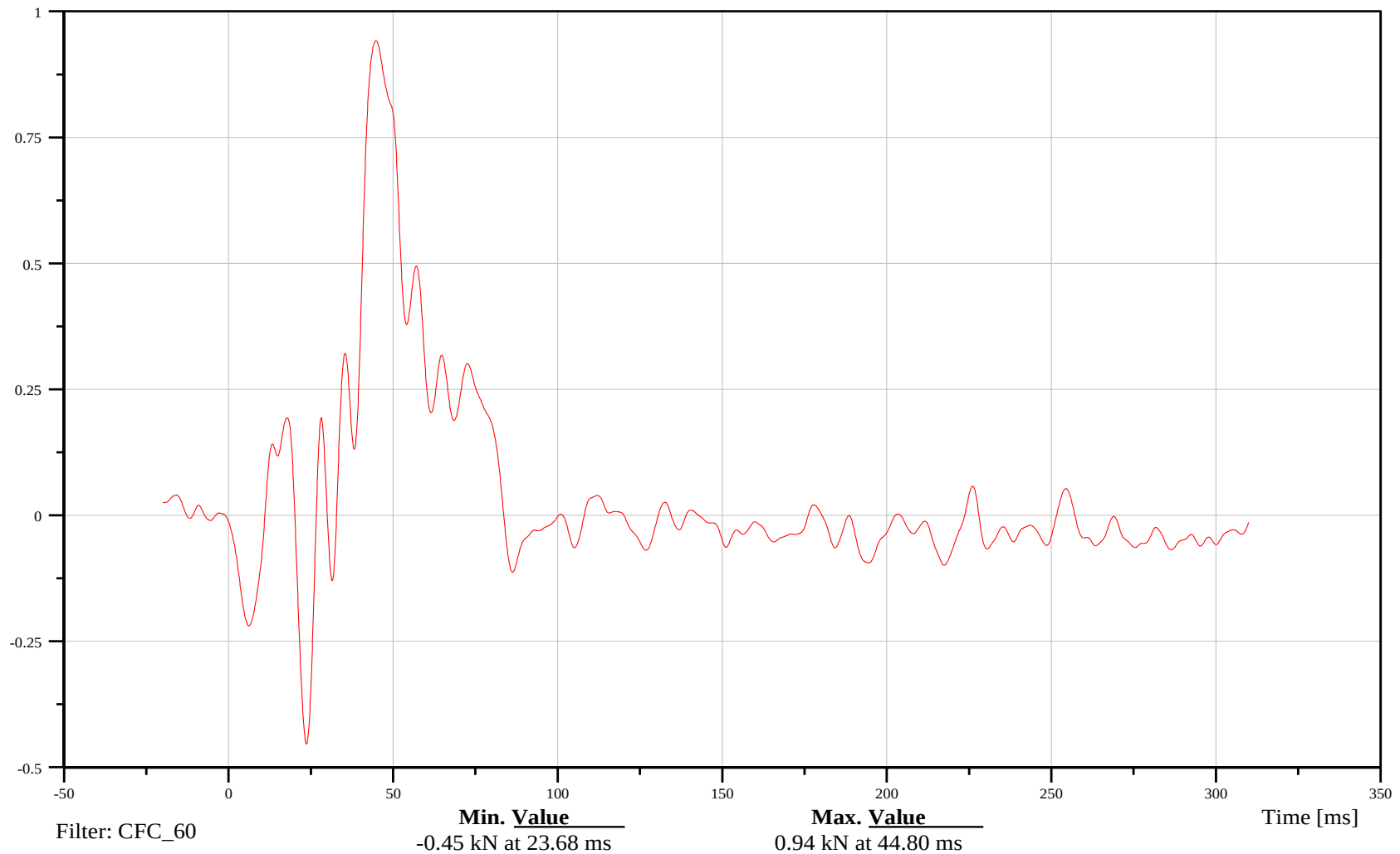
Date: 11/14/2013
Time: 15:28

BARRIER 6-2

Customer: VRTC
Test Number: 131114

B0FBAR060200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

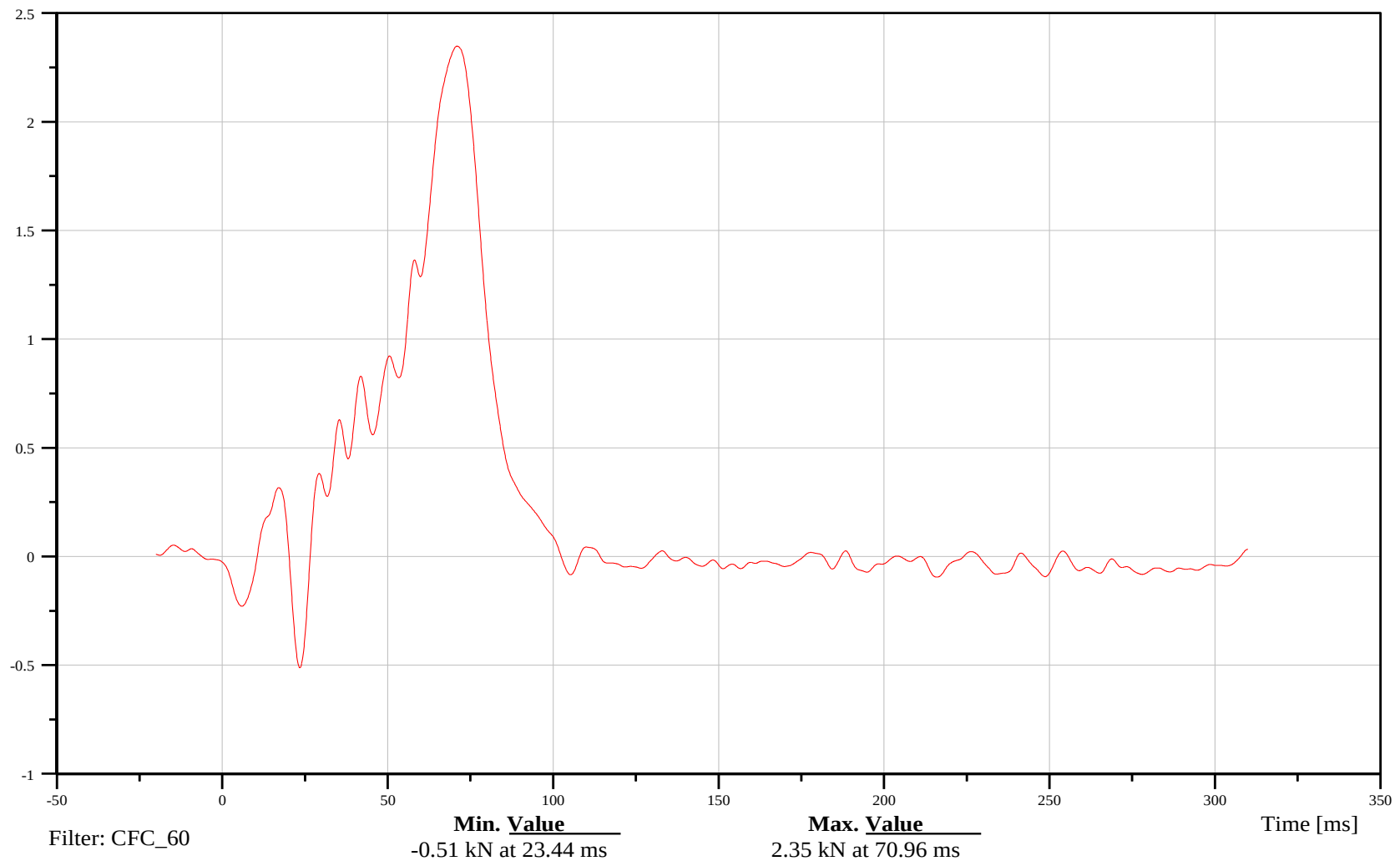
Date: 11/14/2013
Time: 15:28

BARRIER 6-3

Customer: VRTC
Test Number: 131114

B0FBAR060300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

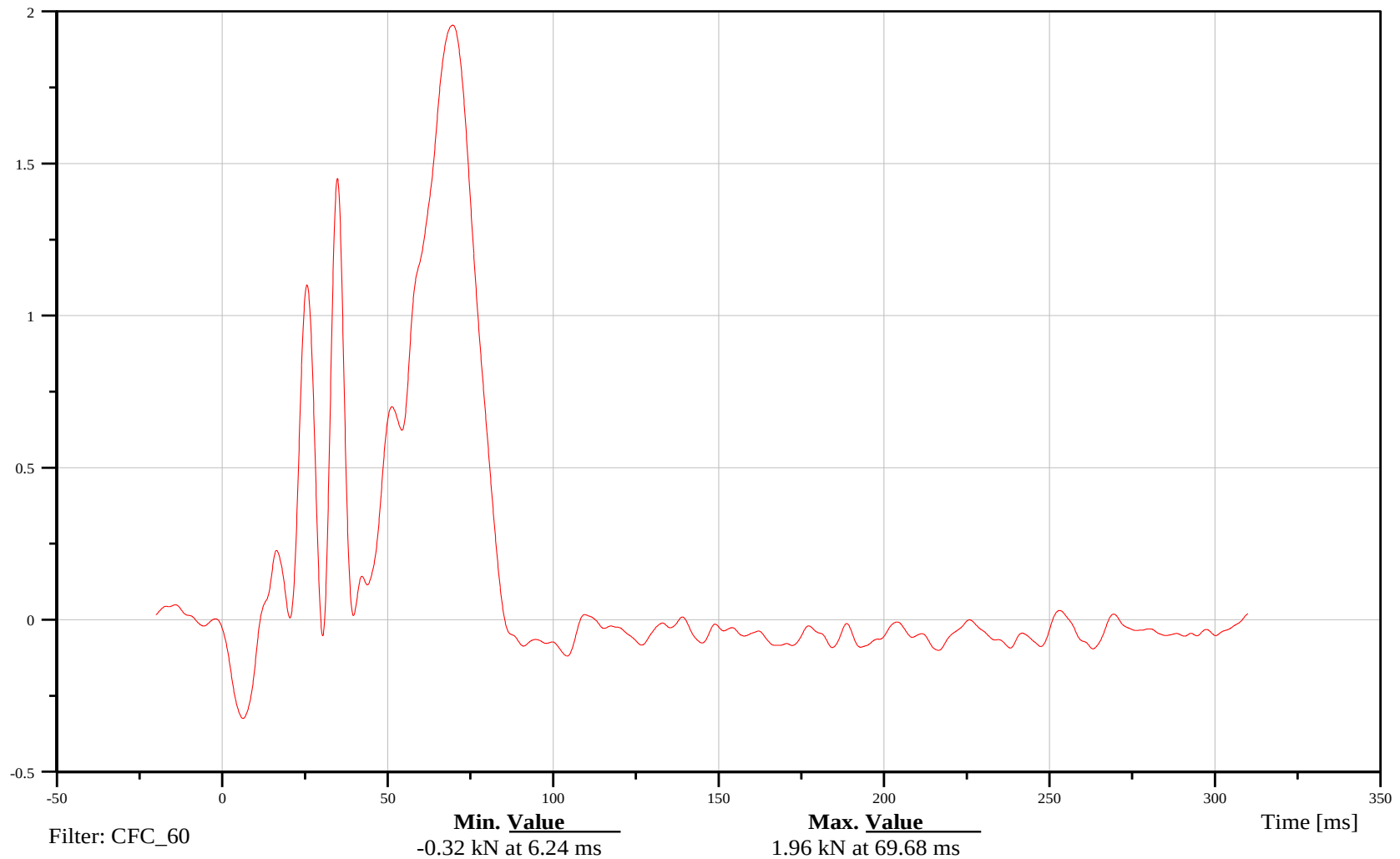
Date: 11/14/2013
Time: 15:28

BARRIER 6-4

Customer: VRTC
Test Number: 131114

B0FBAR060400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

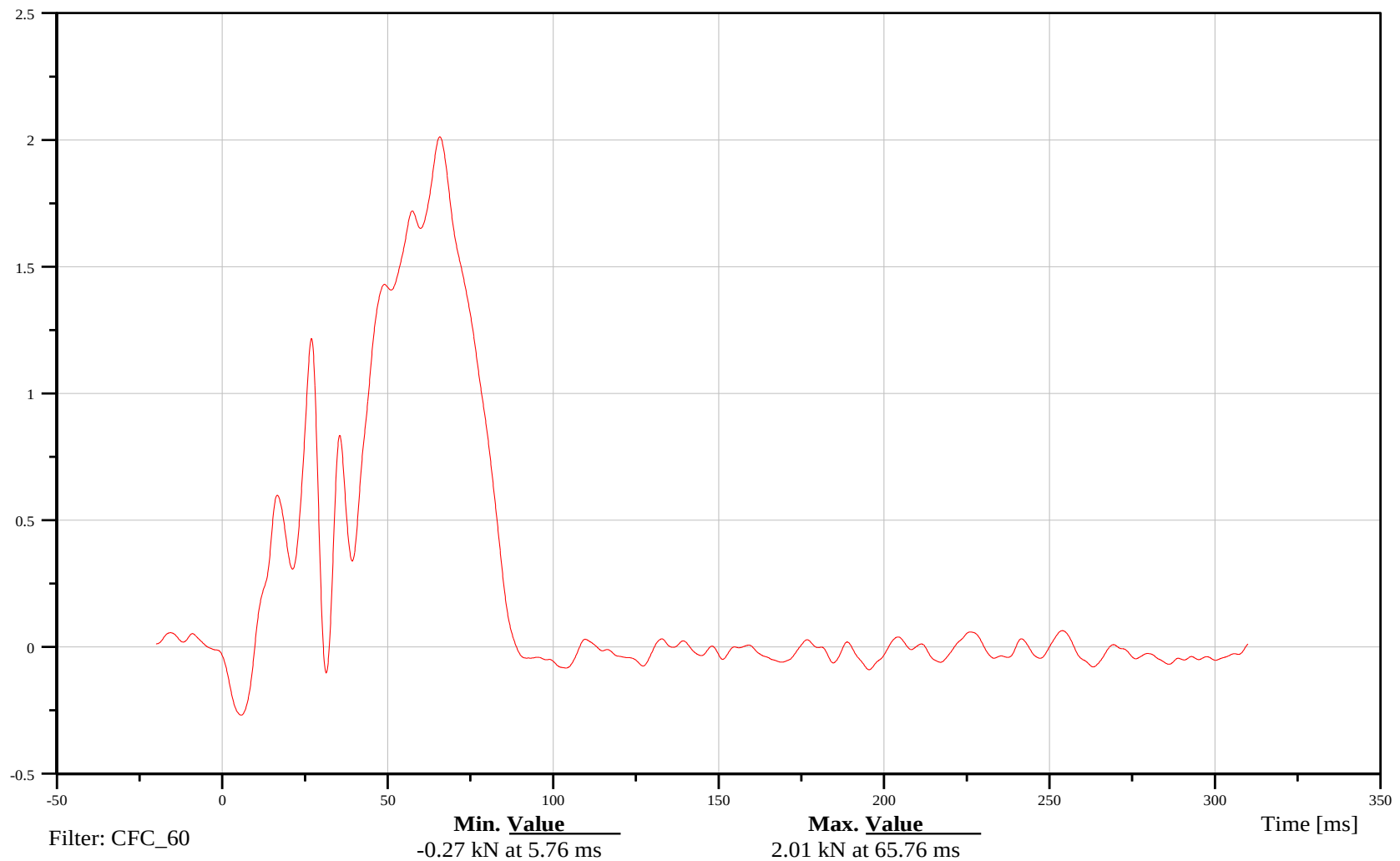
Date: 11/14/2013
Time: 15:28

BARRIER 6-5

Customer: VRTC
Test Number: 131114

B0FBAR060500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

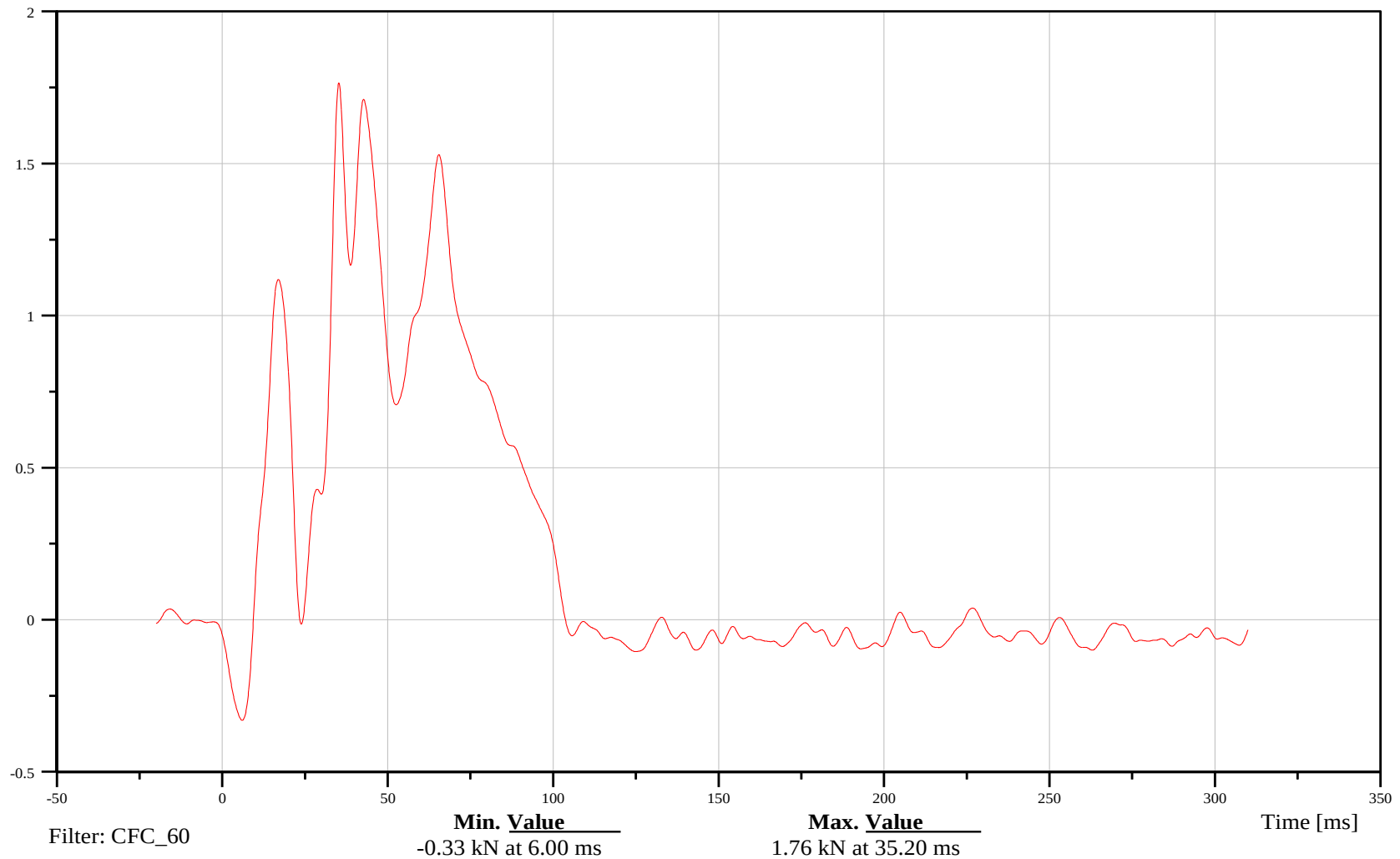
Date: 11/14/2013
Time: 15:28

BARRIER 6-6

Customer: VRTC
Test Number: 131114

B0FBAR060600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

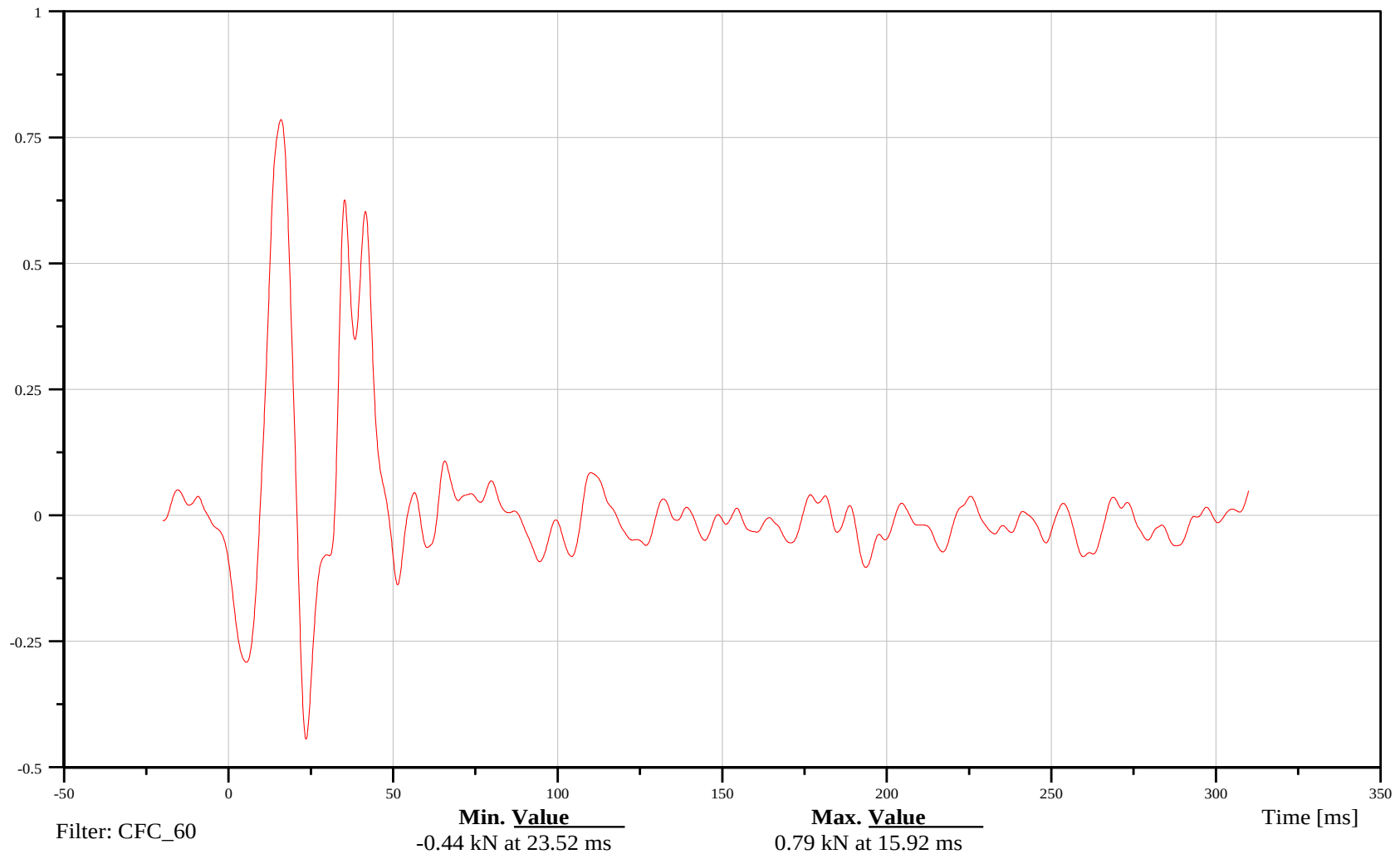
Date: 11/14/2013
Time: 15:28

BARRIER 6-7

Customer: VRTC
Test Number: 131114

B0FBAR060700FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

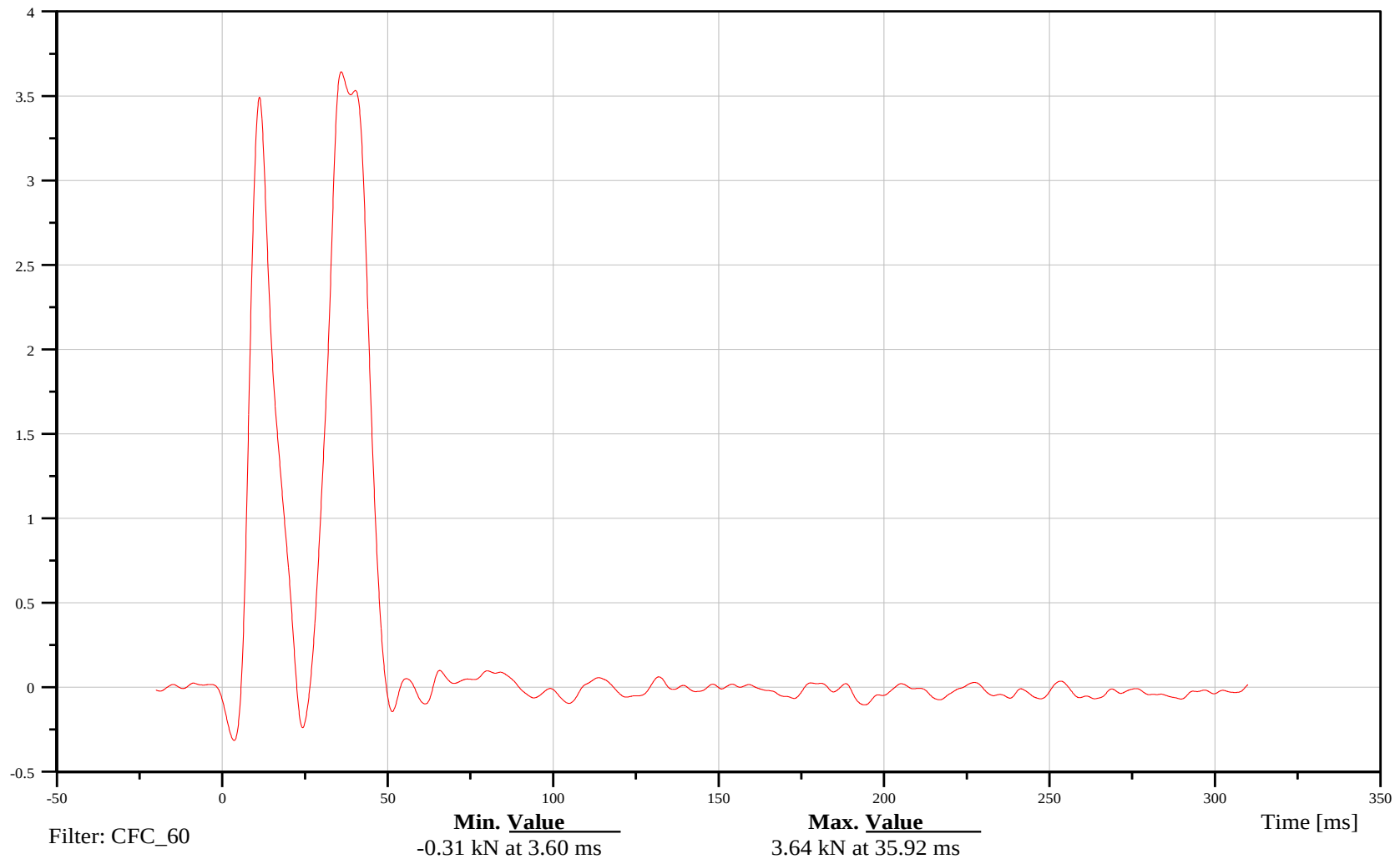
BARRIER 6-8

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR060800FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

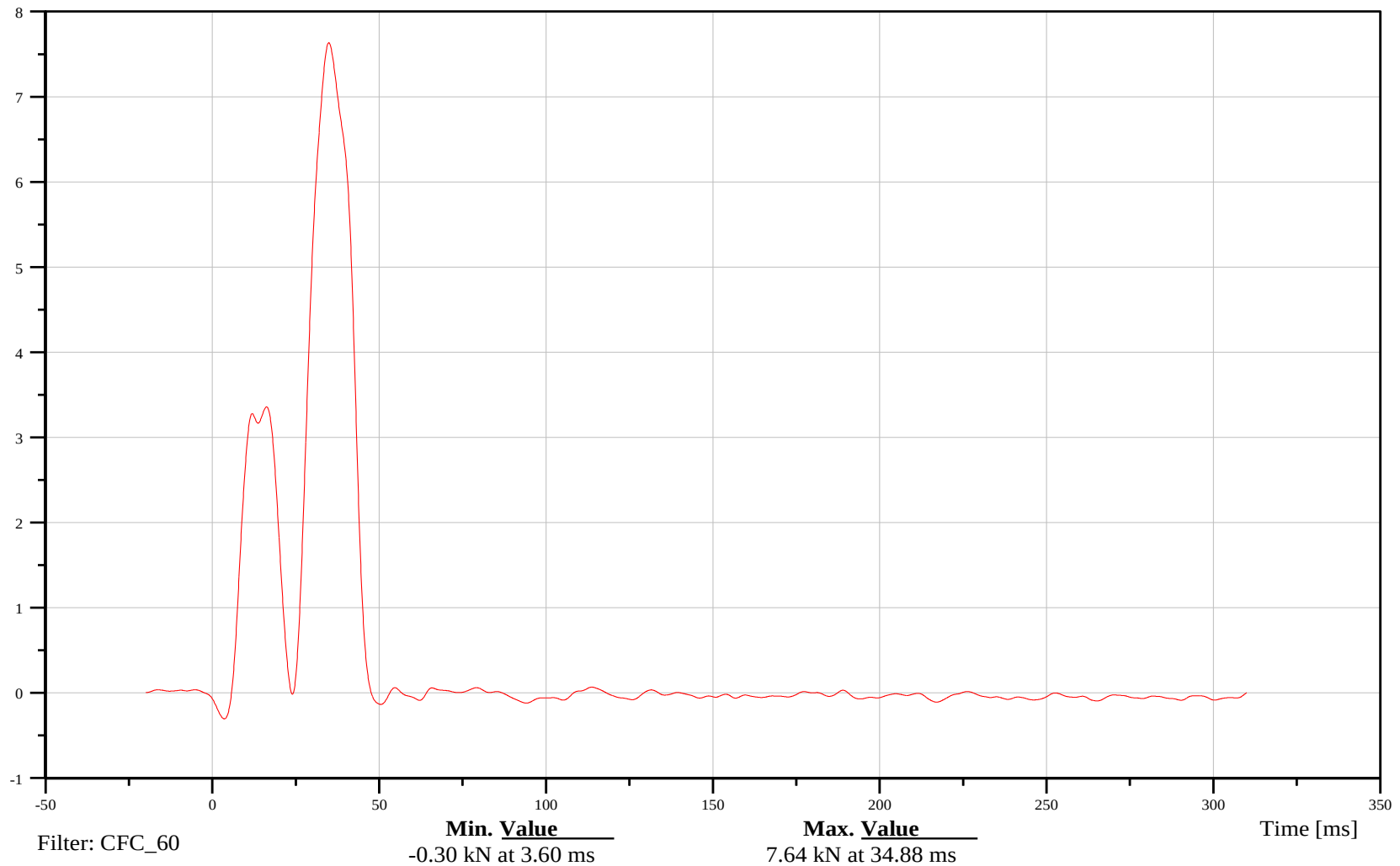
Date: 11/14/2013
Time: 15:28

BARRIER 6-9

Customer: VRTC
Test Number: 131114

B0FBAR060900FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

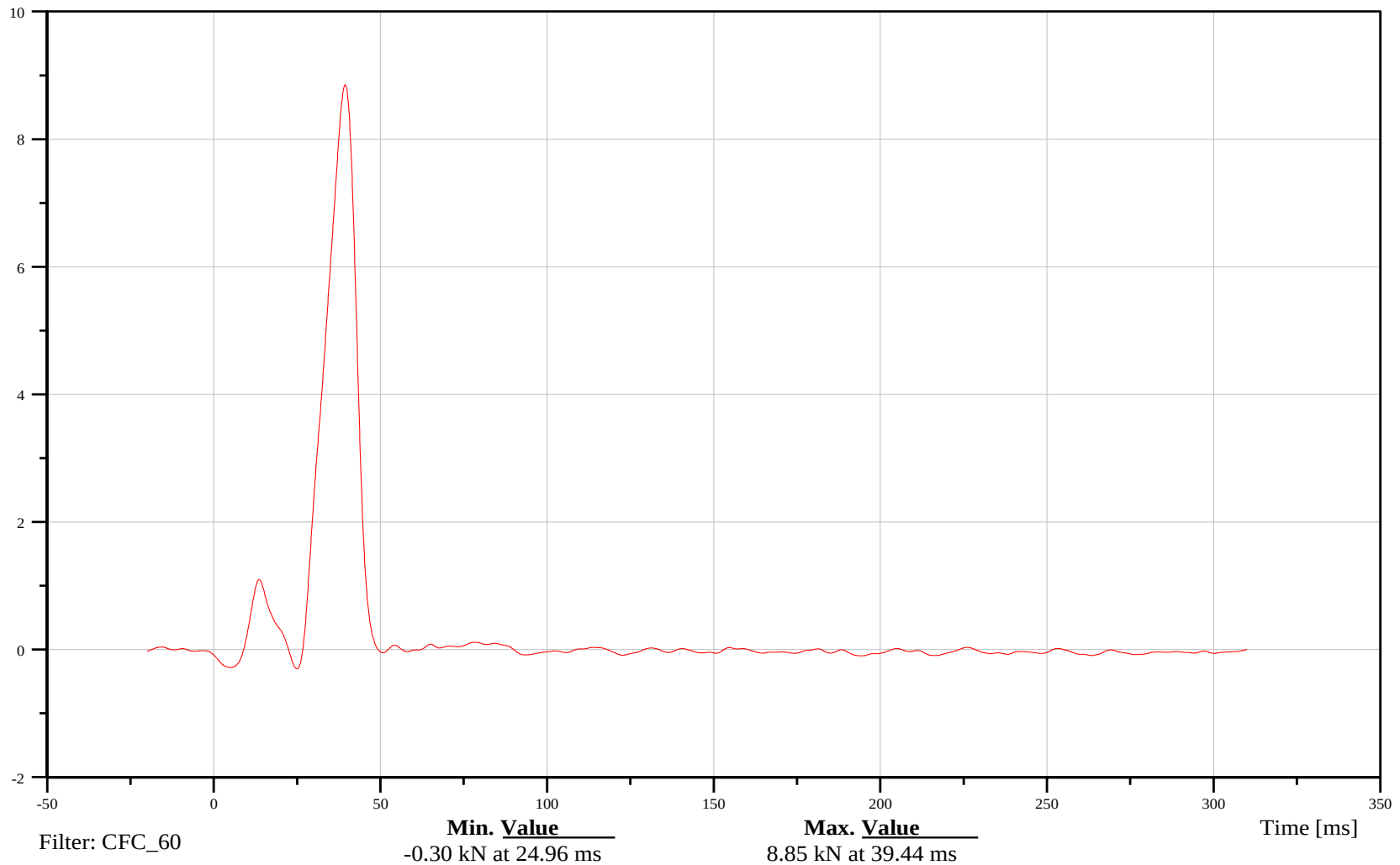
BARRIER 6-10

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR061000FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

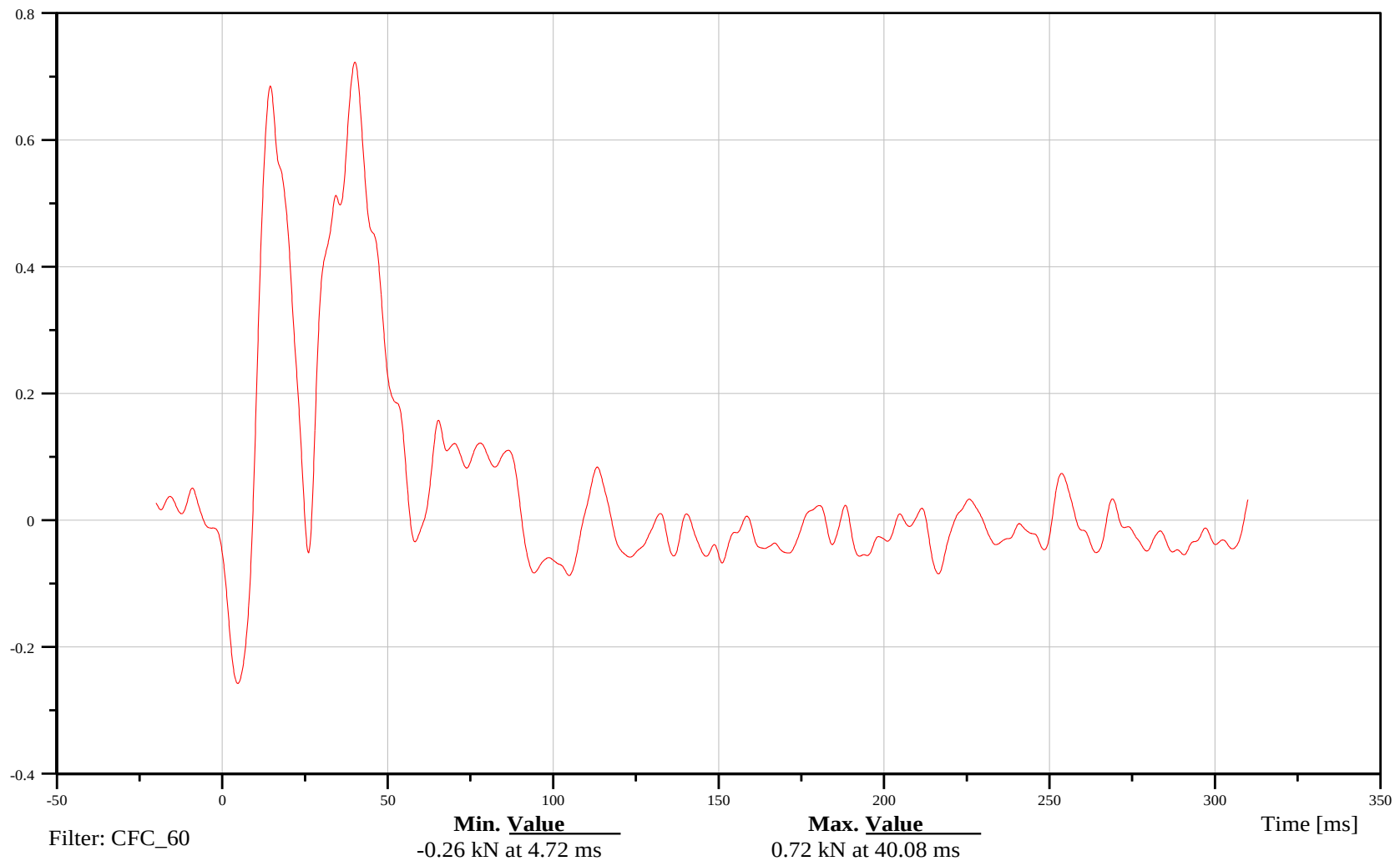
Date: 11/14/2013
Time: 15:28

BARRIER 6-11

Customer: VRTC
Test Number: 131114

B0FBAR061100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

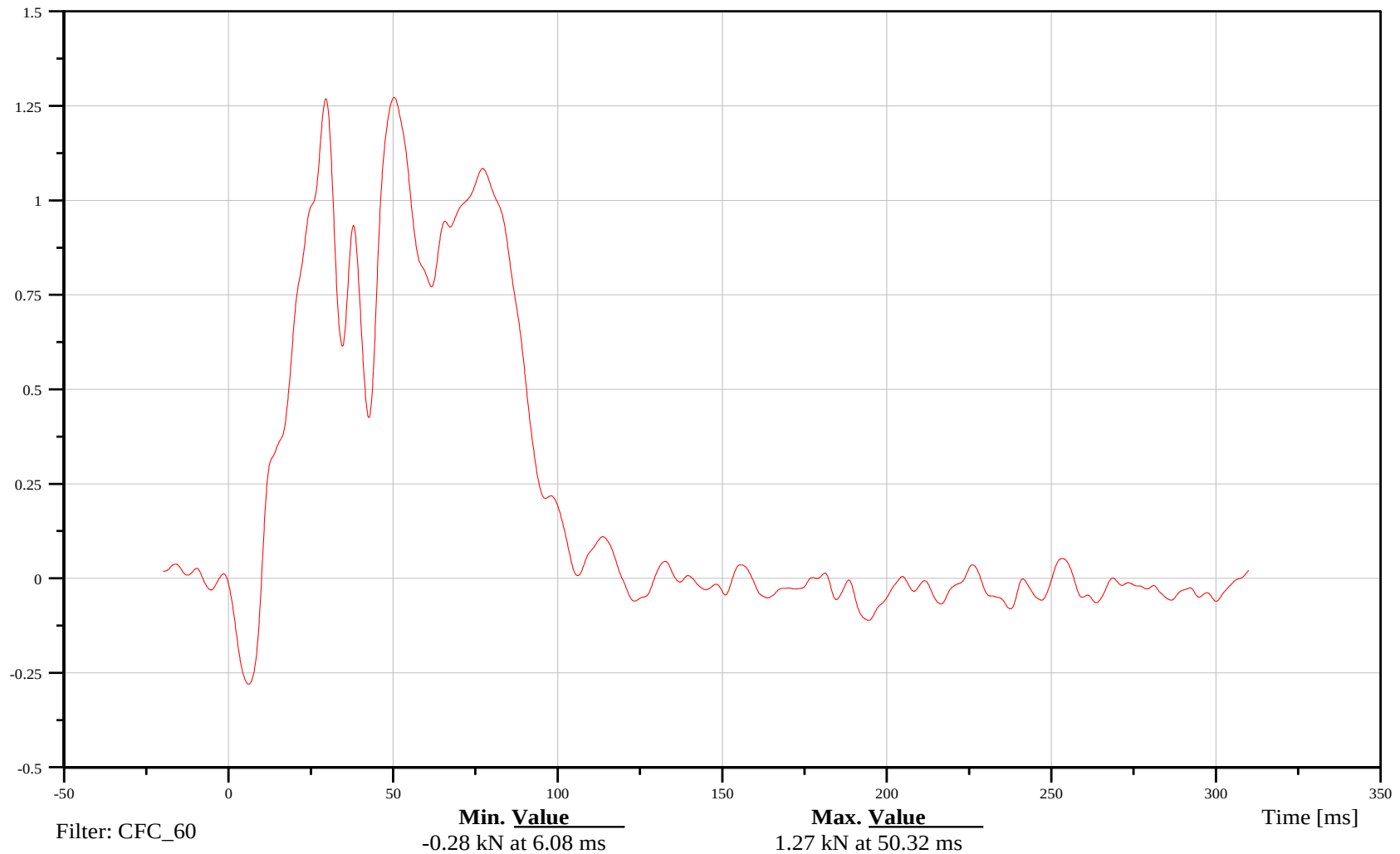
Date: 11/14/2013
Time: 15:28

BARRIER 6-12

Customer: VRTC
Test Number: 131114

B0FBAR061200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

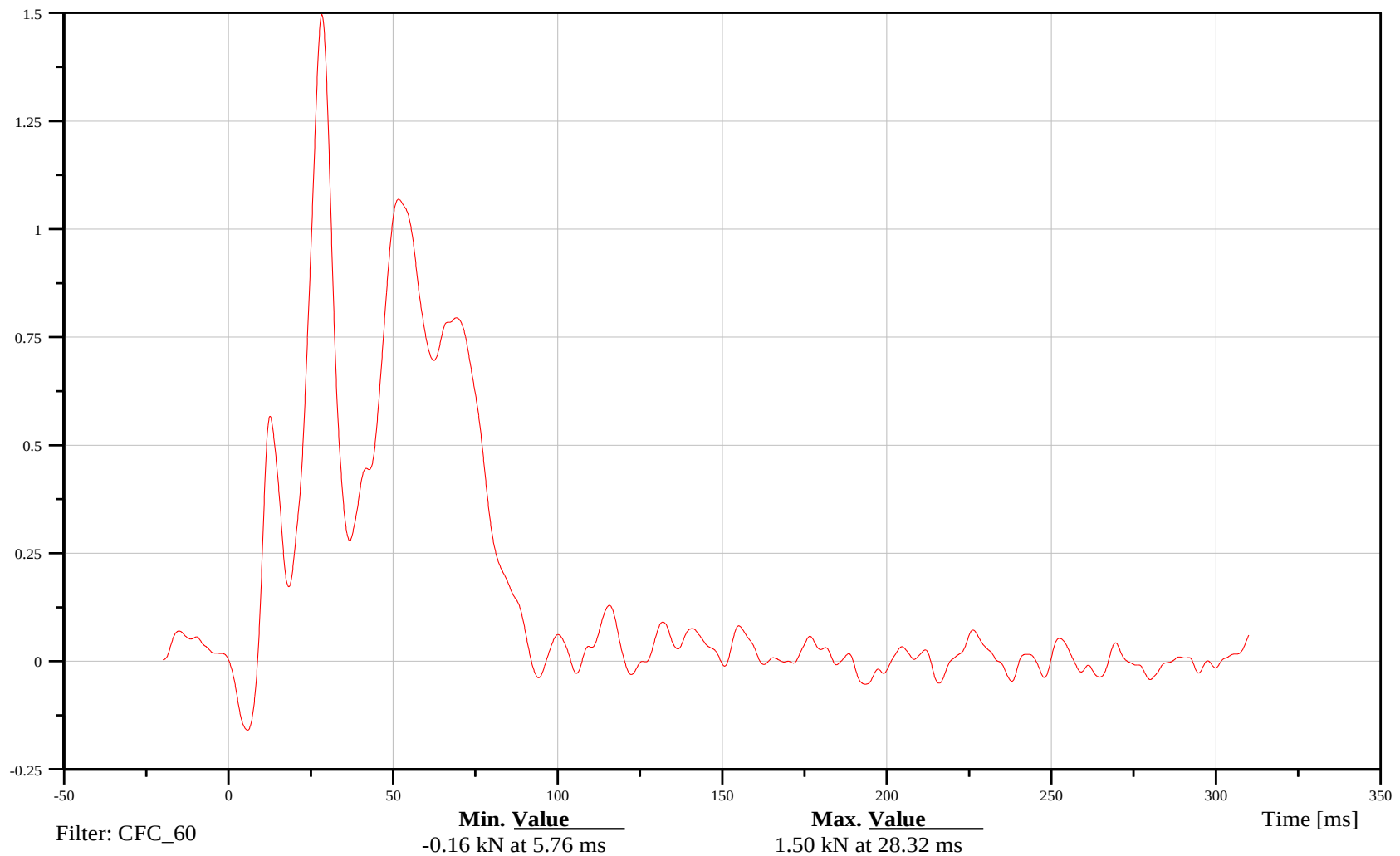
Date: 11/14/2013
Time: 15:28

BARRIER 6-13

Customer: VRTC
Test Number: 131114

B0FBAR061300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

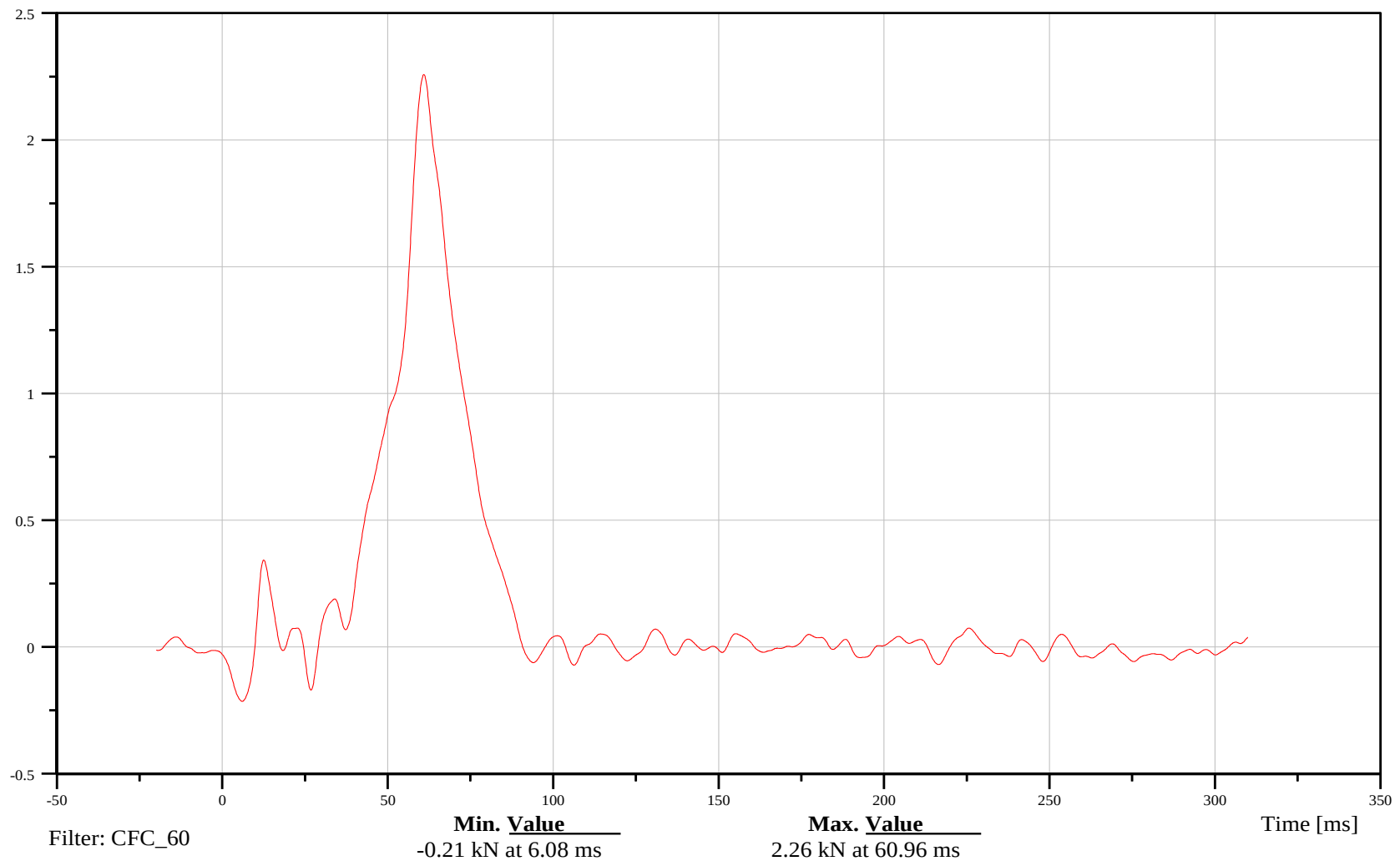
BARRIER 6-14

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR061400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

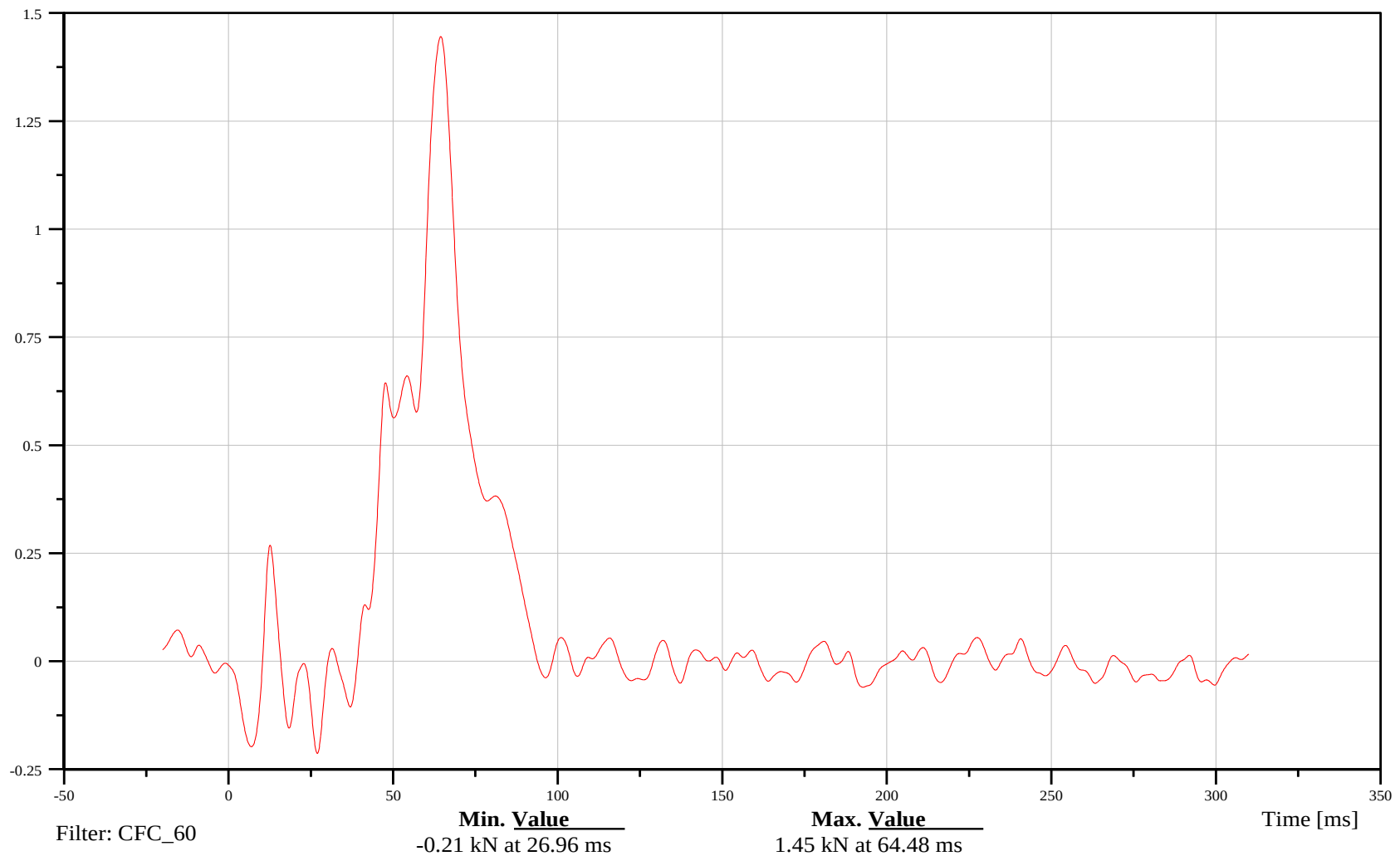
Date: 11/14/2013
Time: 15:28

BARRIER 6-15

Customer: VRTC
Test Number: 131114

B0FBAR061500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

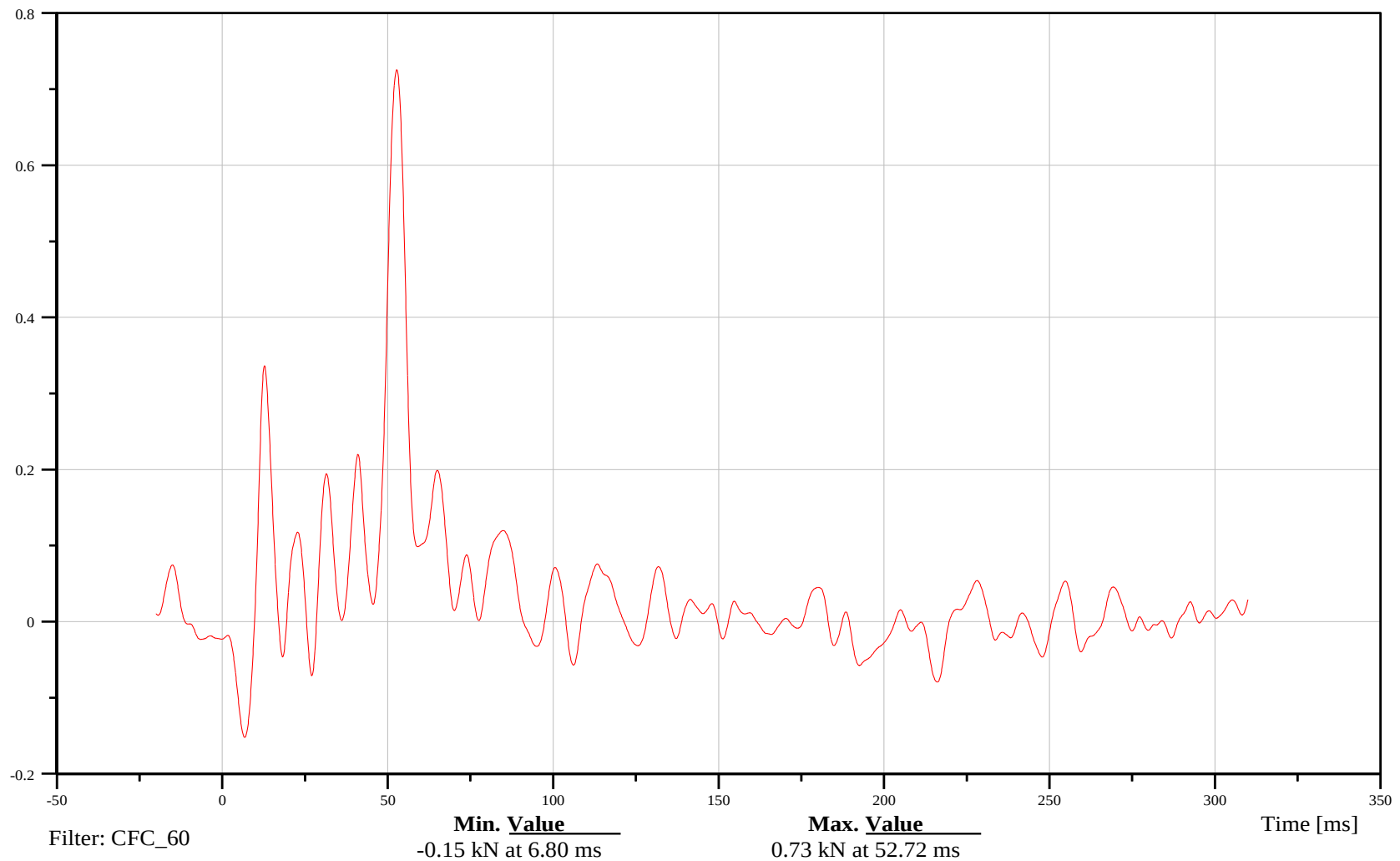
Date: 11/14/2013
Time: 15:28

BARRIER 6-16

Customer: VRTC
Test Number: 131114

B0FBAR061600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

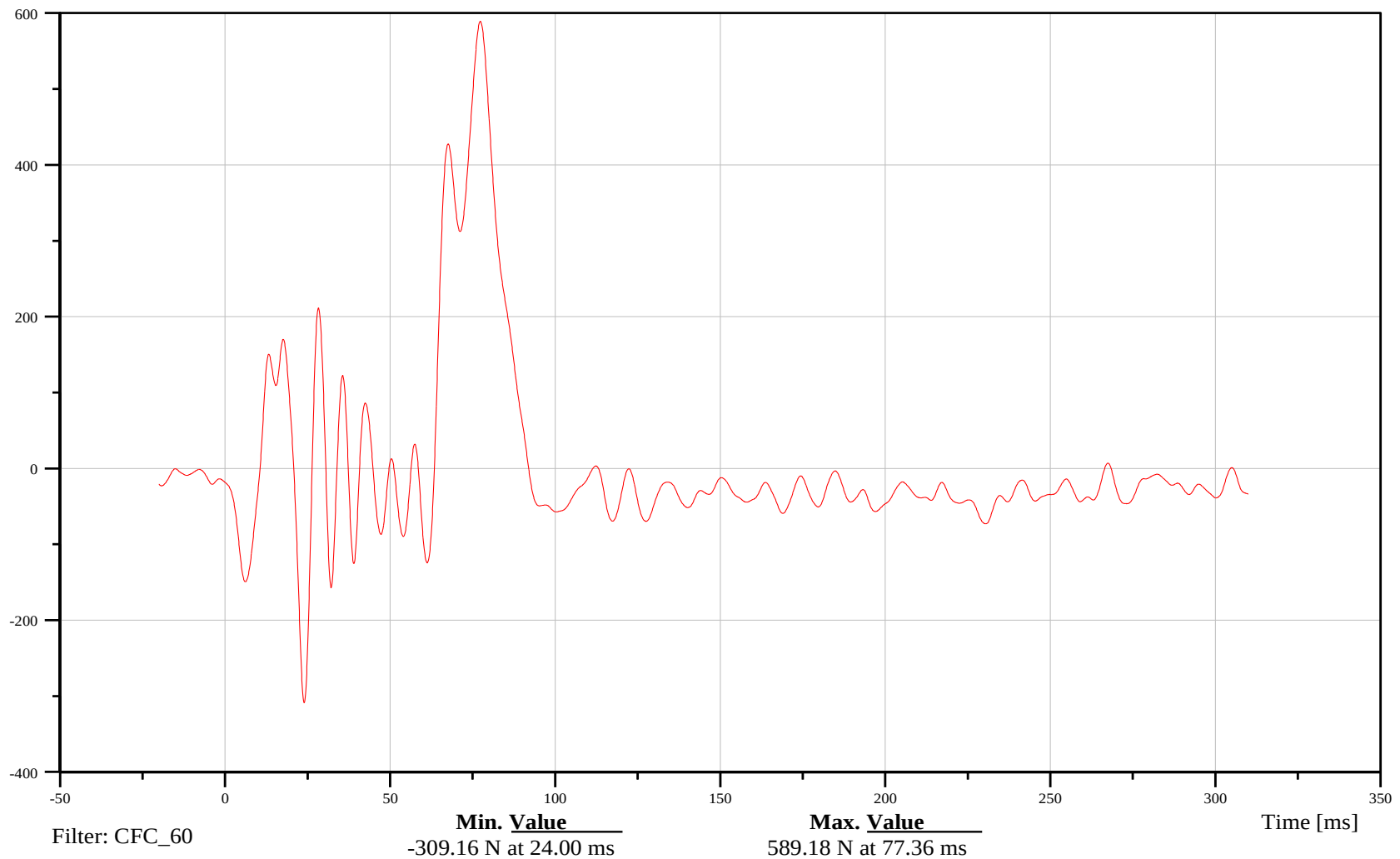
Date: 11/14/2013
Time: 15:28

BARRIER 8-1 FX

Customer: VRTC
Test Number: 131114

B0FBAR080100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

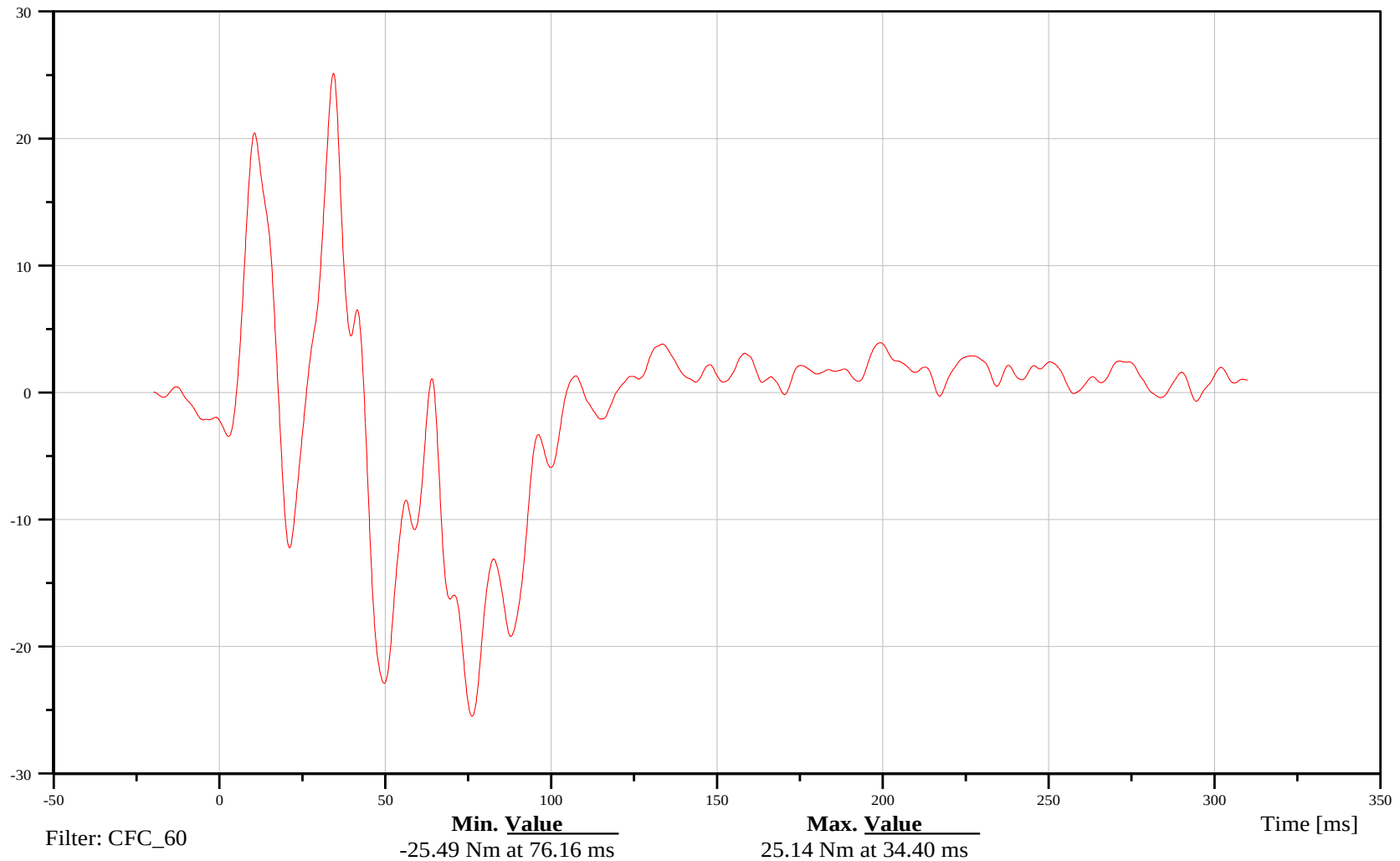
Date: 11/14/2013
Time: 15:28

BARRIER 8-1 My

Customer: VRTC
Test Number: 131114

B0FBAR080100MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

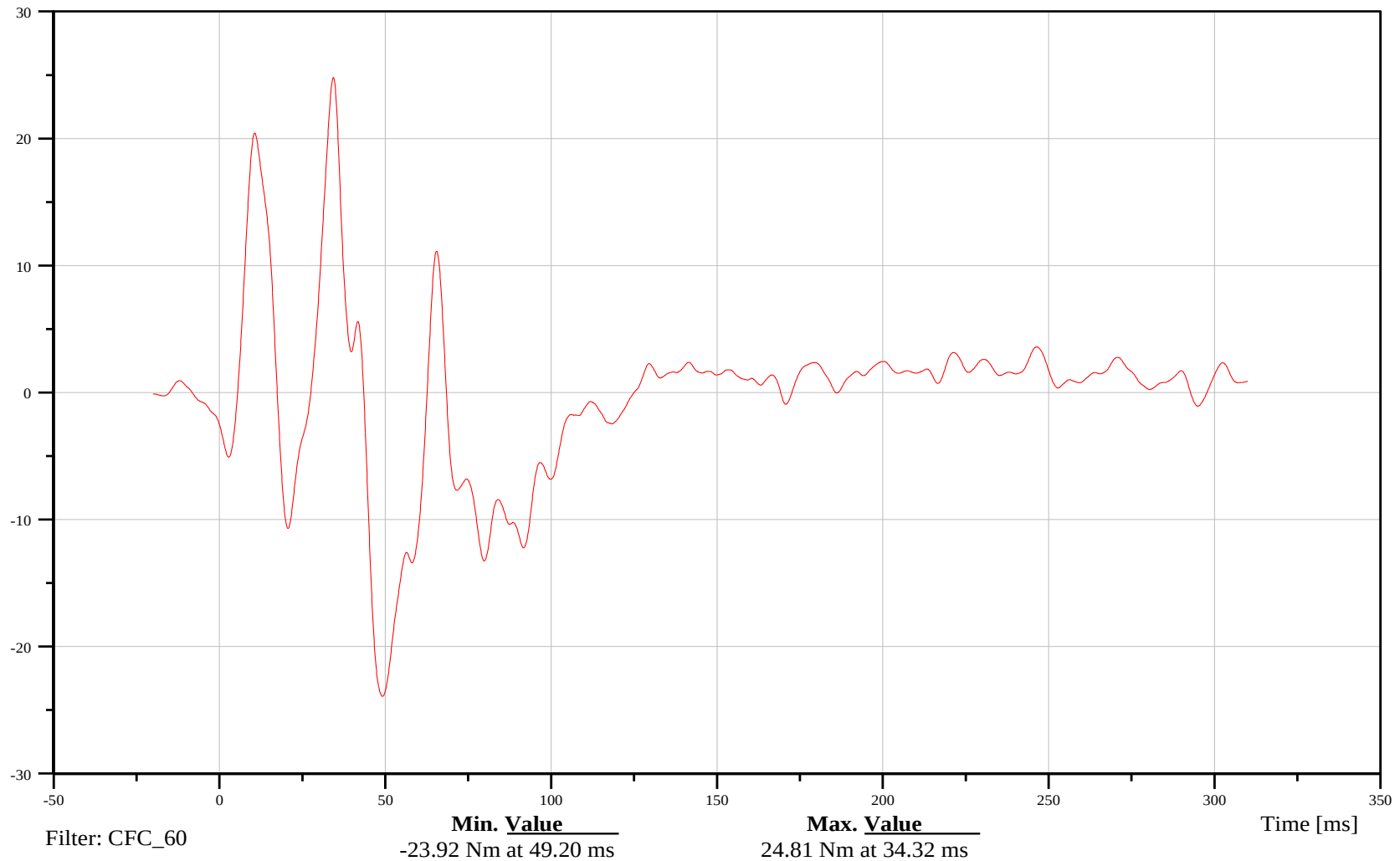
BARRIER 8-1 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080100MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

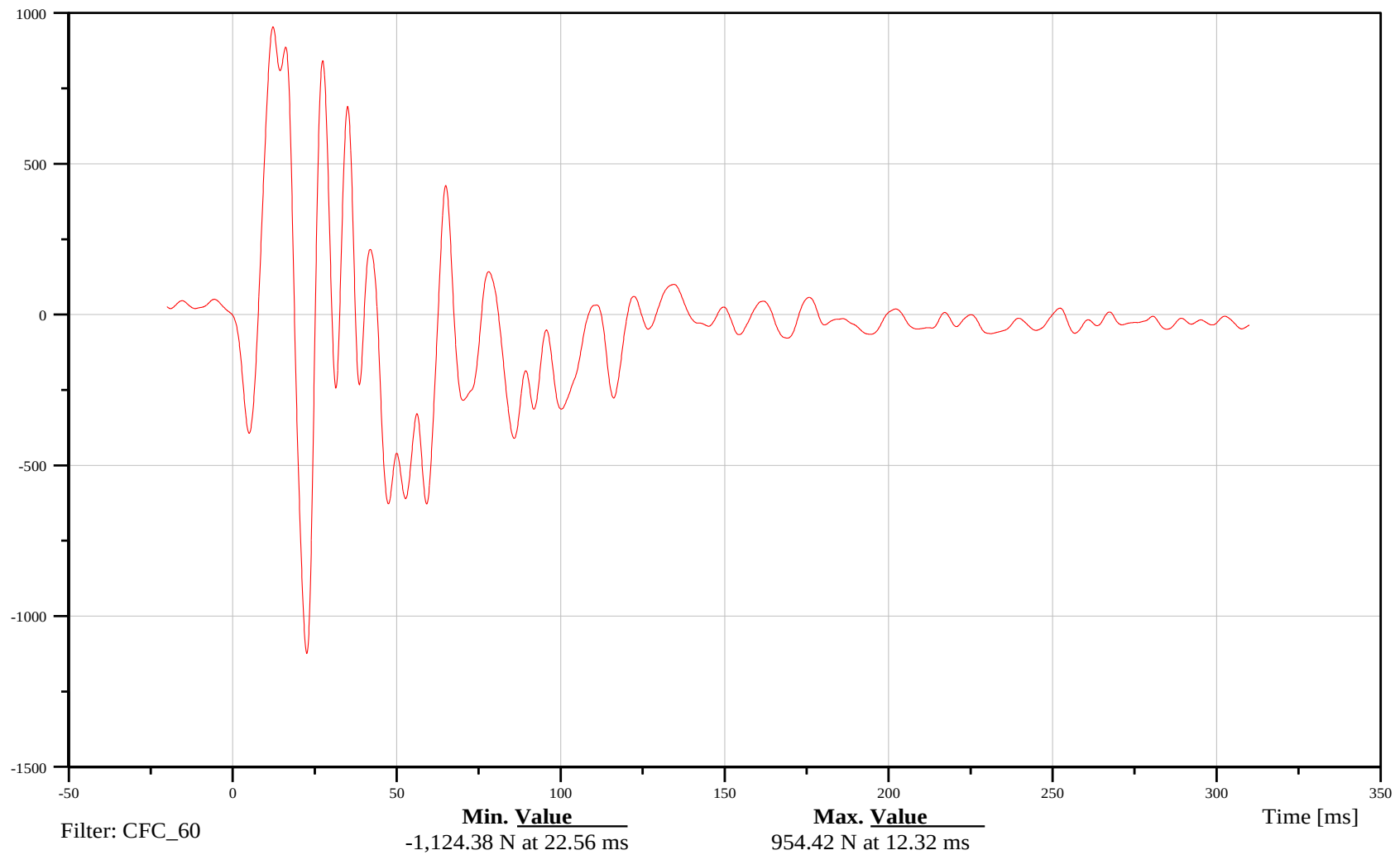
BARRIER 8-2 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

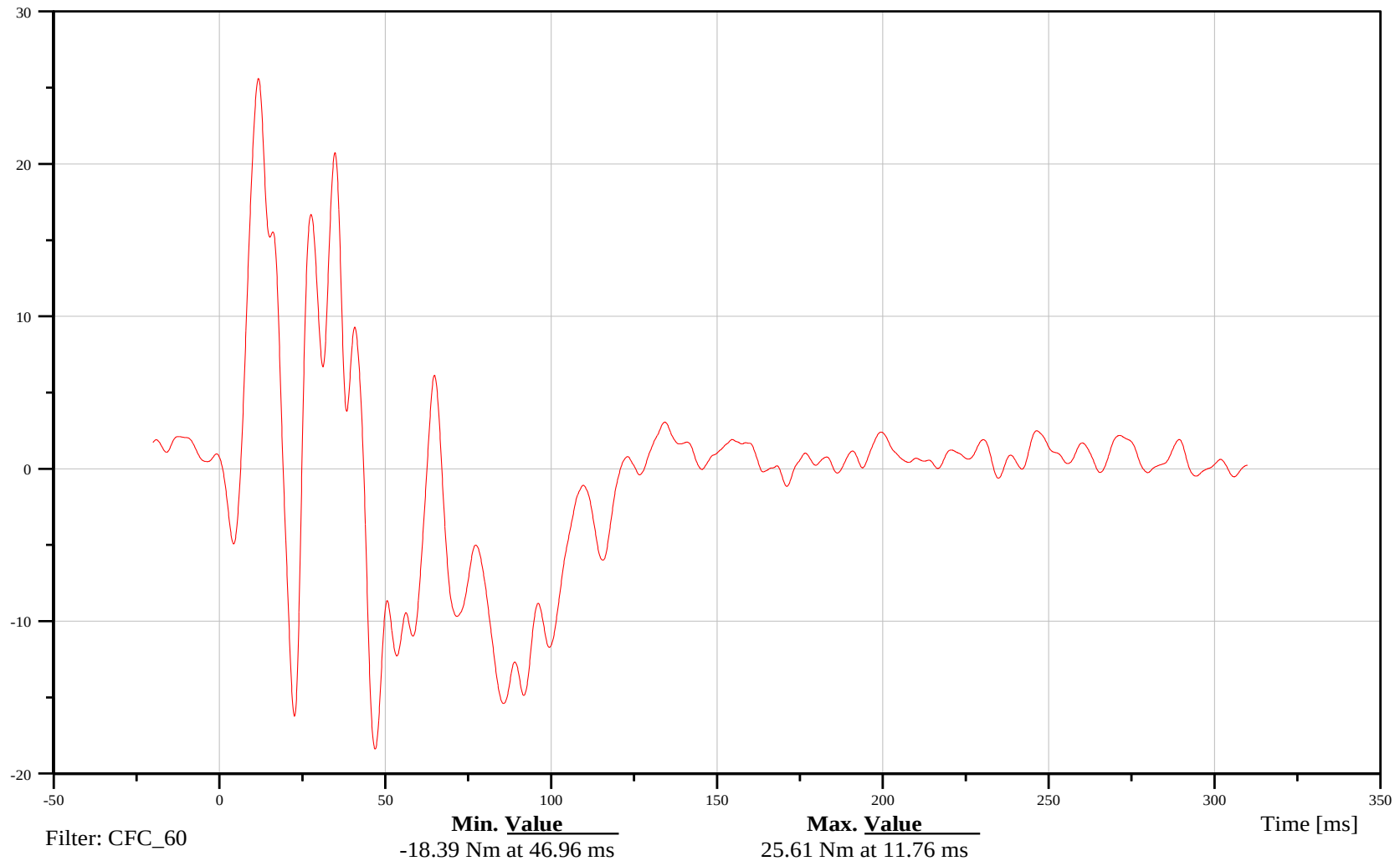
Date: 11/14/2013
Time: 15:28

BARRIER 8-2 My

Customer: VRTC
Test Number: 131114

B0FBAR080200MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

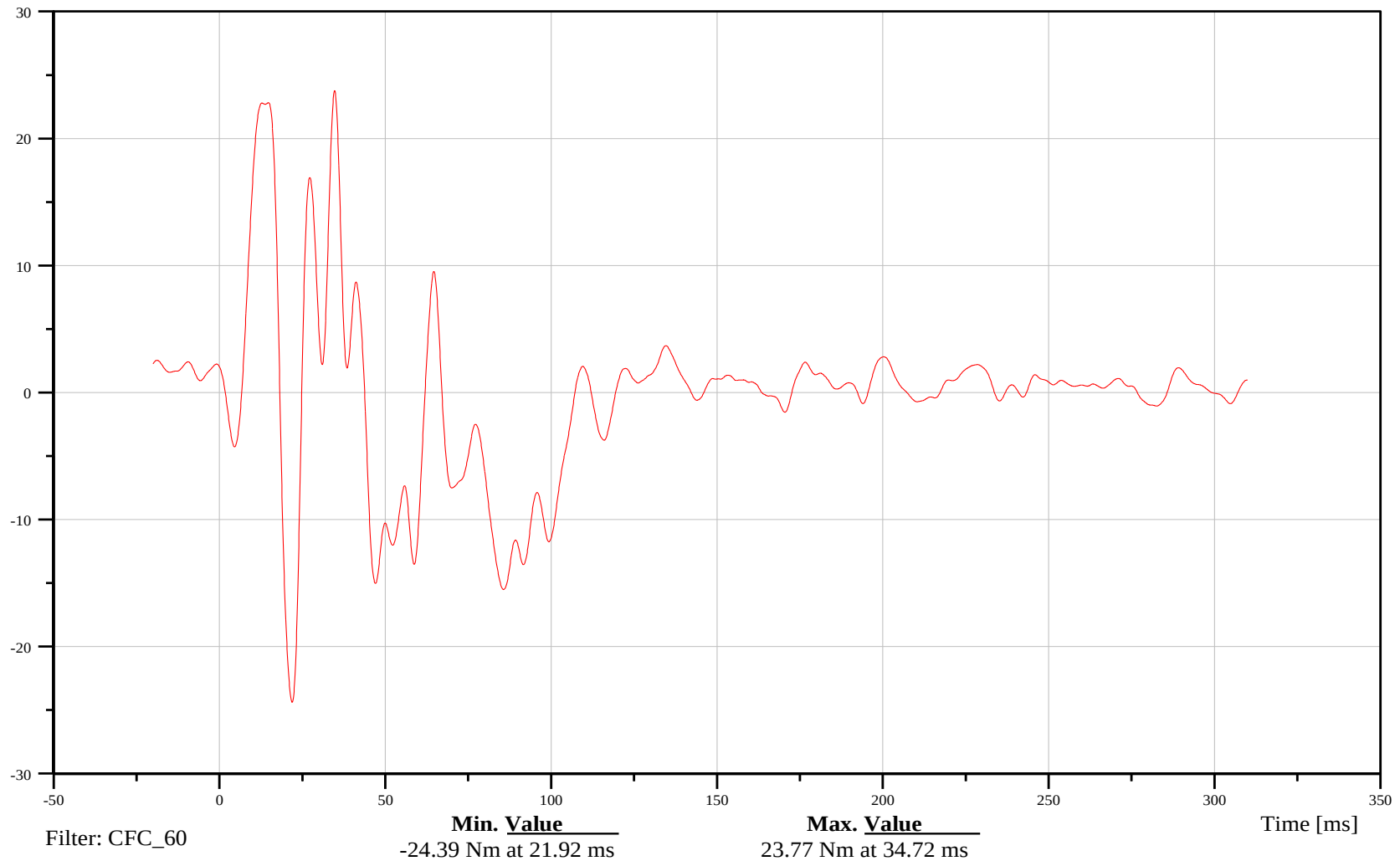
BARRIER 8-2 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080200MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

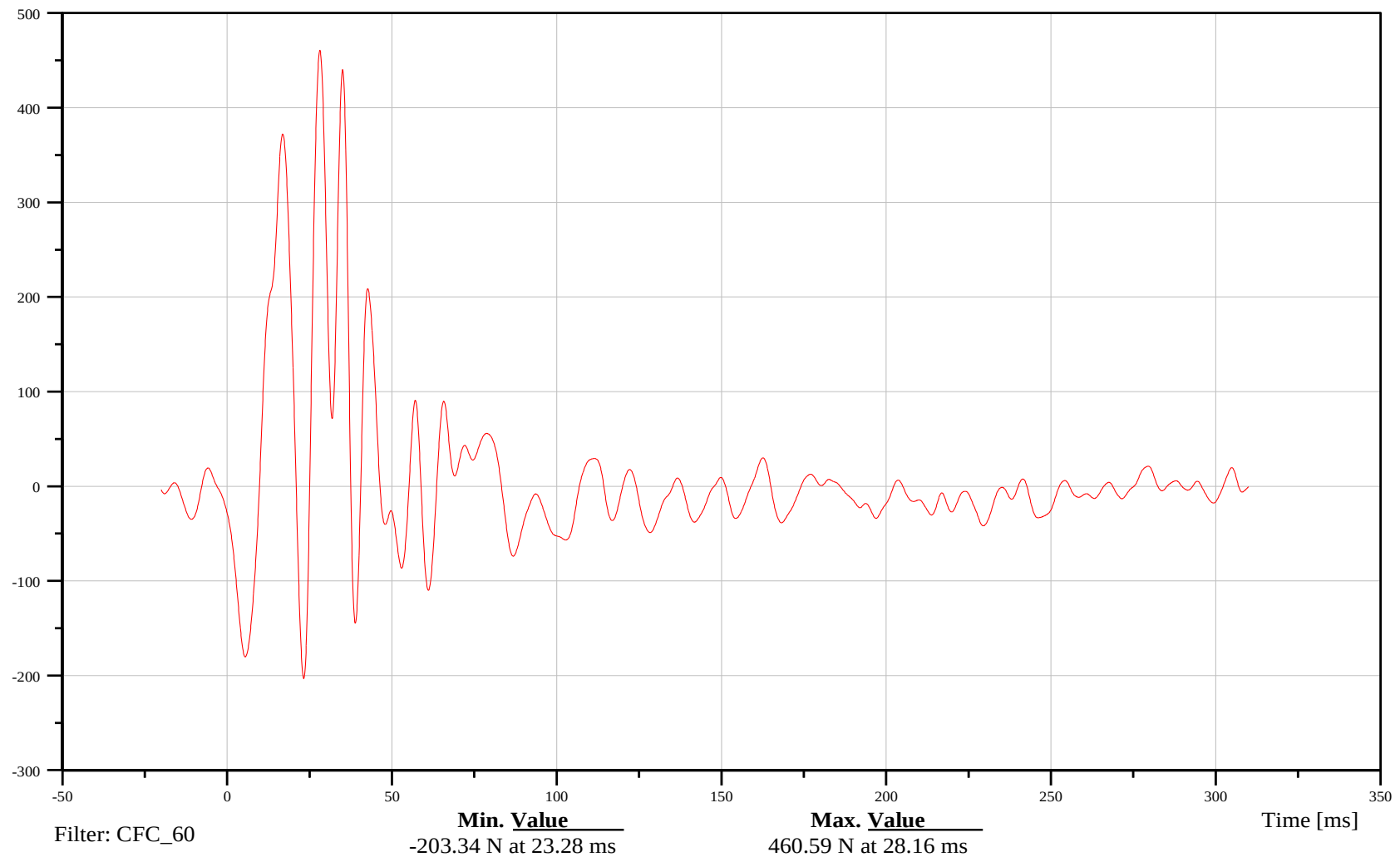
Date: 11/14/2013
Time: 15:28

BARRIER 8-3 FX

Customer: VRTC
Test Number: 131114

B0FBAR080300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

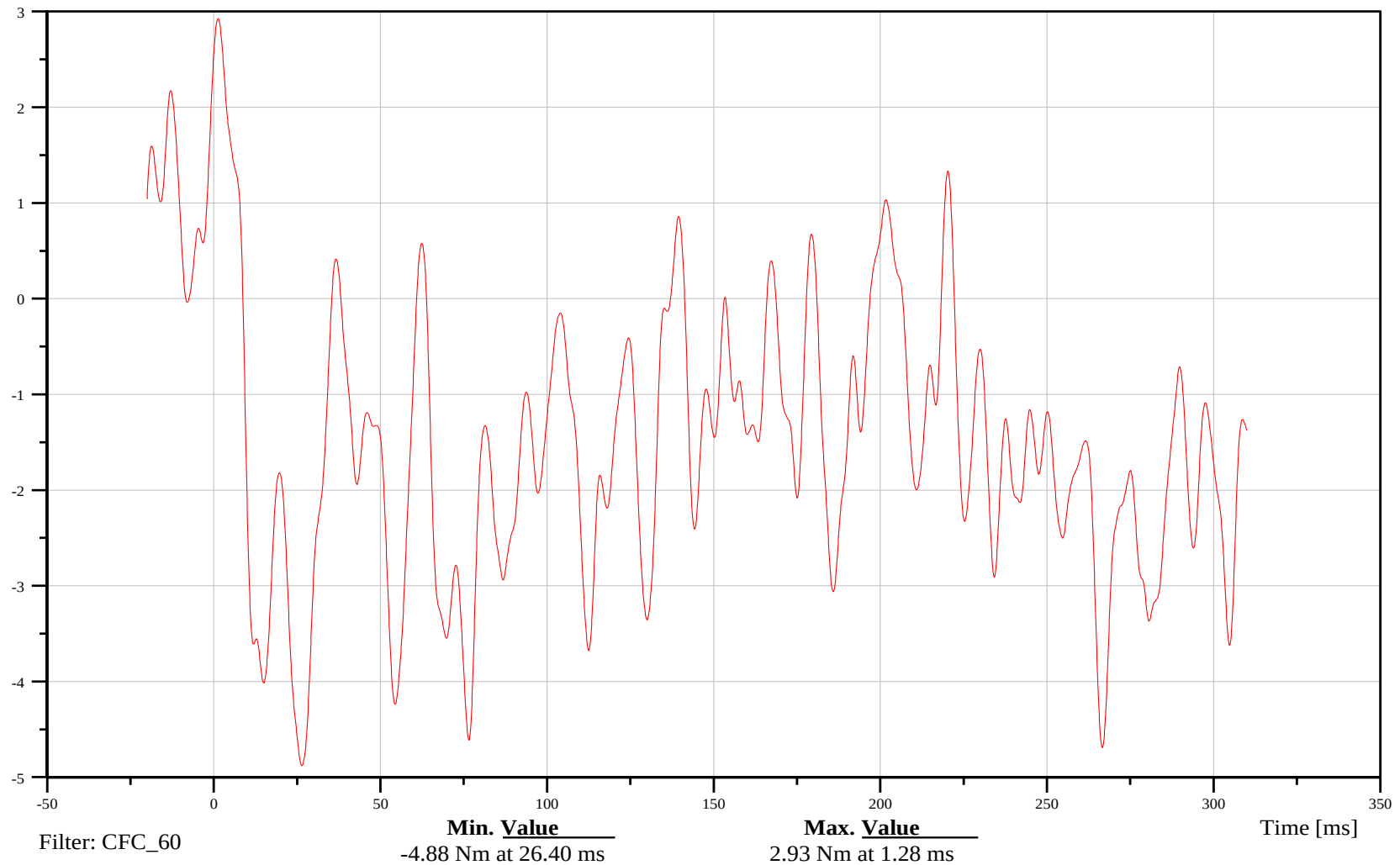
BARRIER 8-3 My

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080300MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

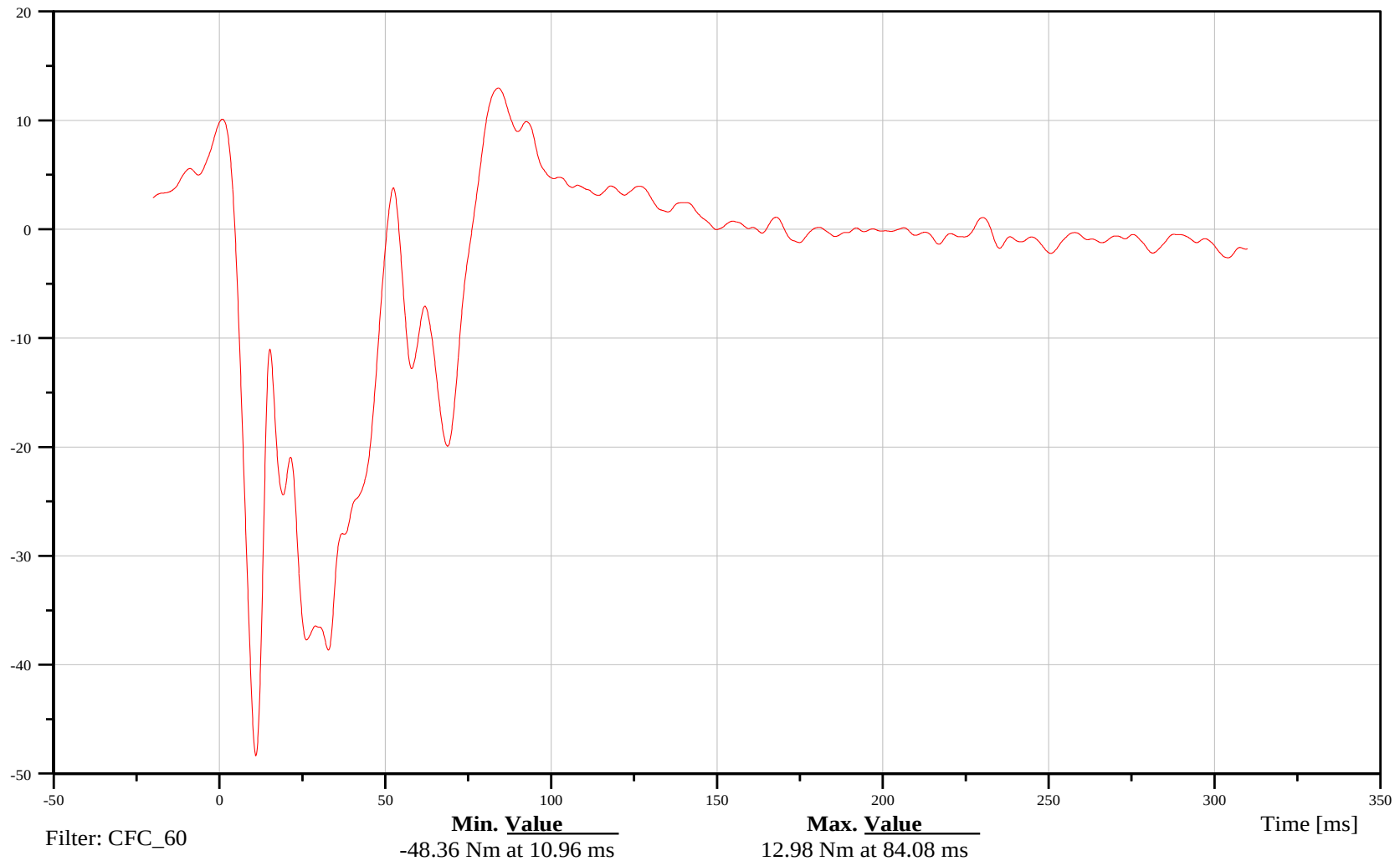
BARRIER 8-3 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080300MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

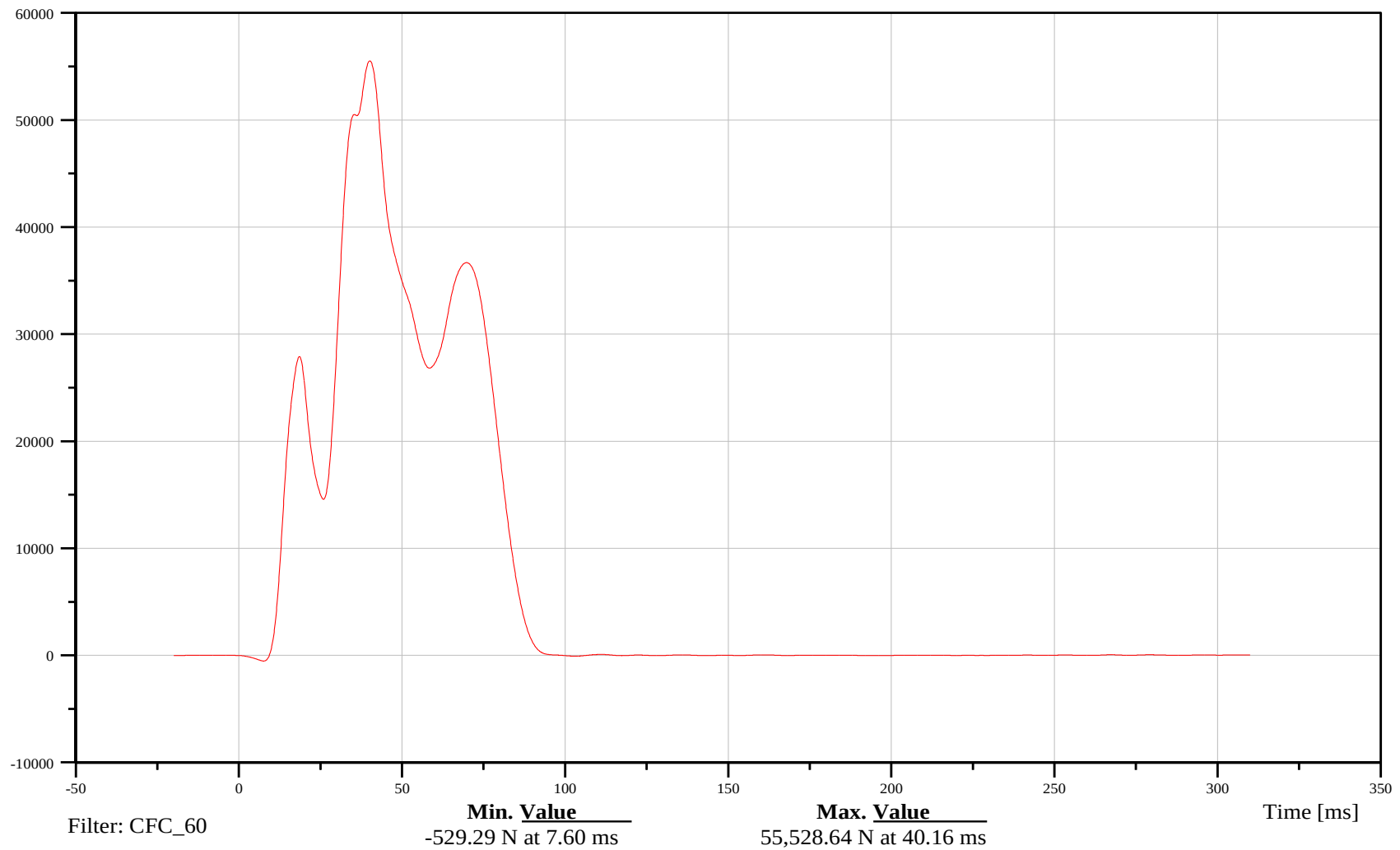
BARRIER 8-4 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

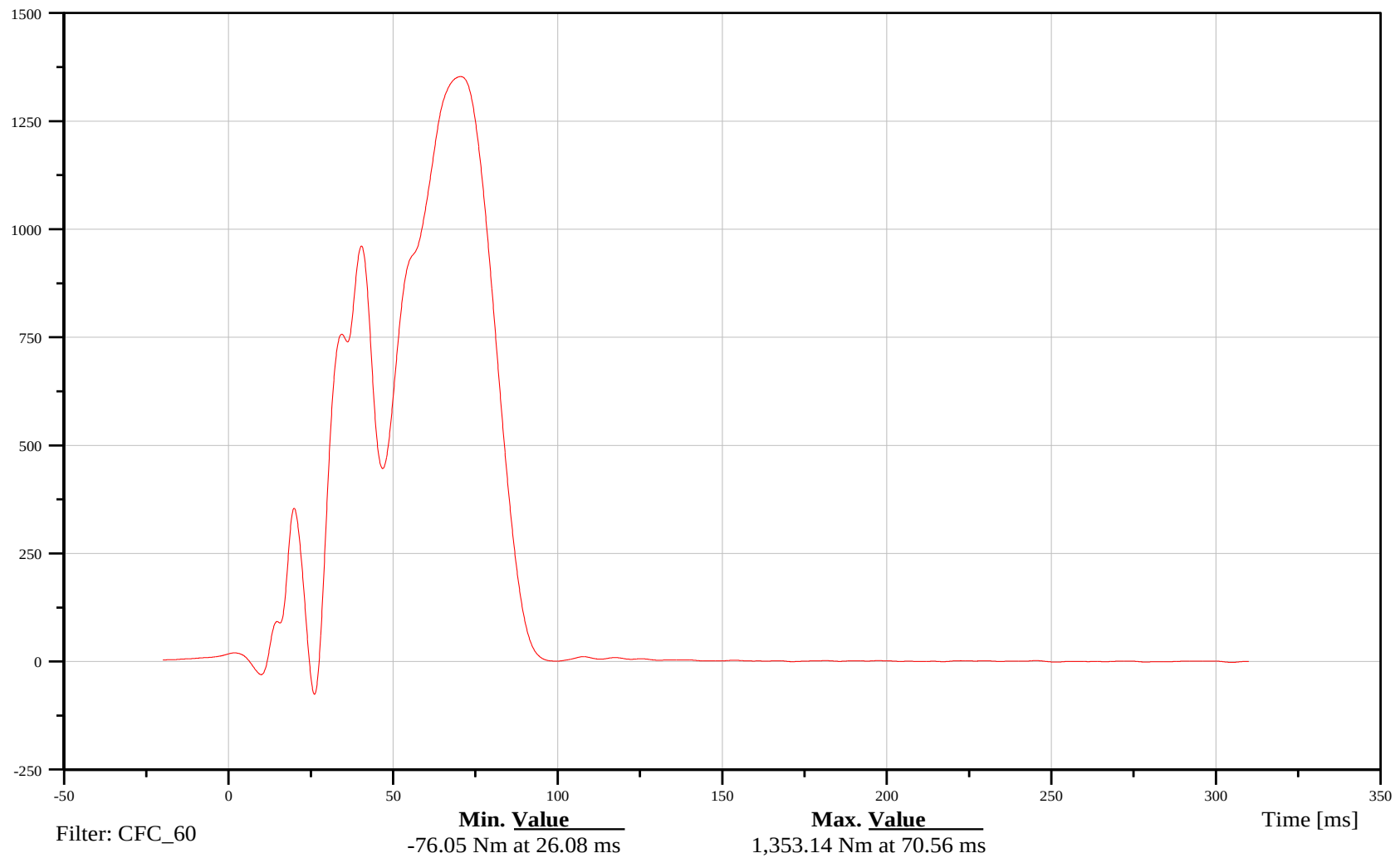
Date: 11/14/2013
Time: 15:28

BARRIER 8-4 My

Customer: VRTC
Test Number: 131114

B0FBAR080400MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

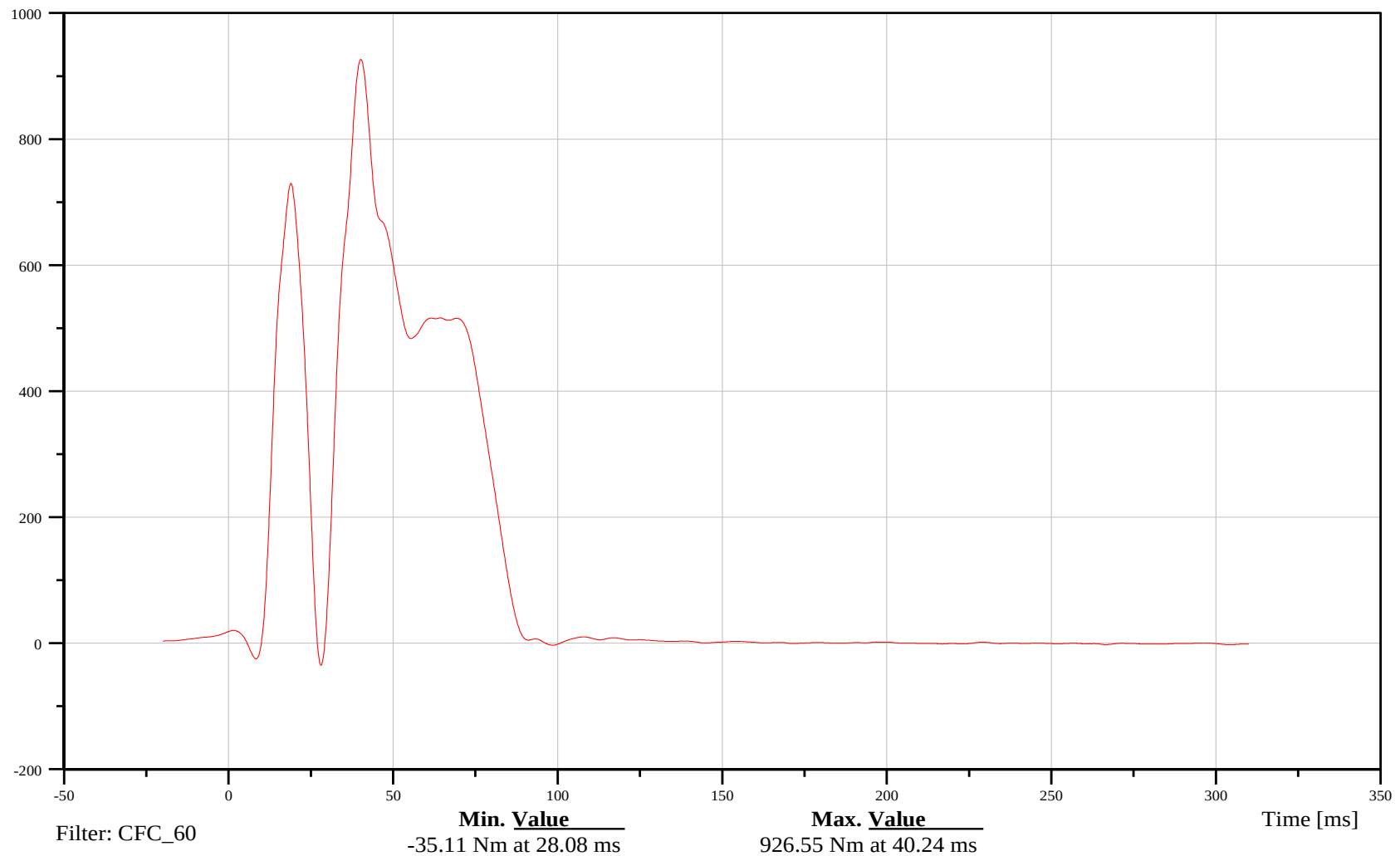
Date: 11/14/2013
Time: 15:28

BARRIER 8-4 Mz

Customer: VRTC
Test Number: 131114

B0FBAR080400MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

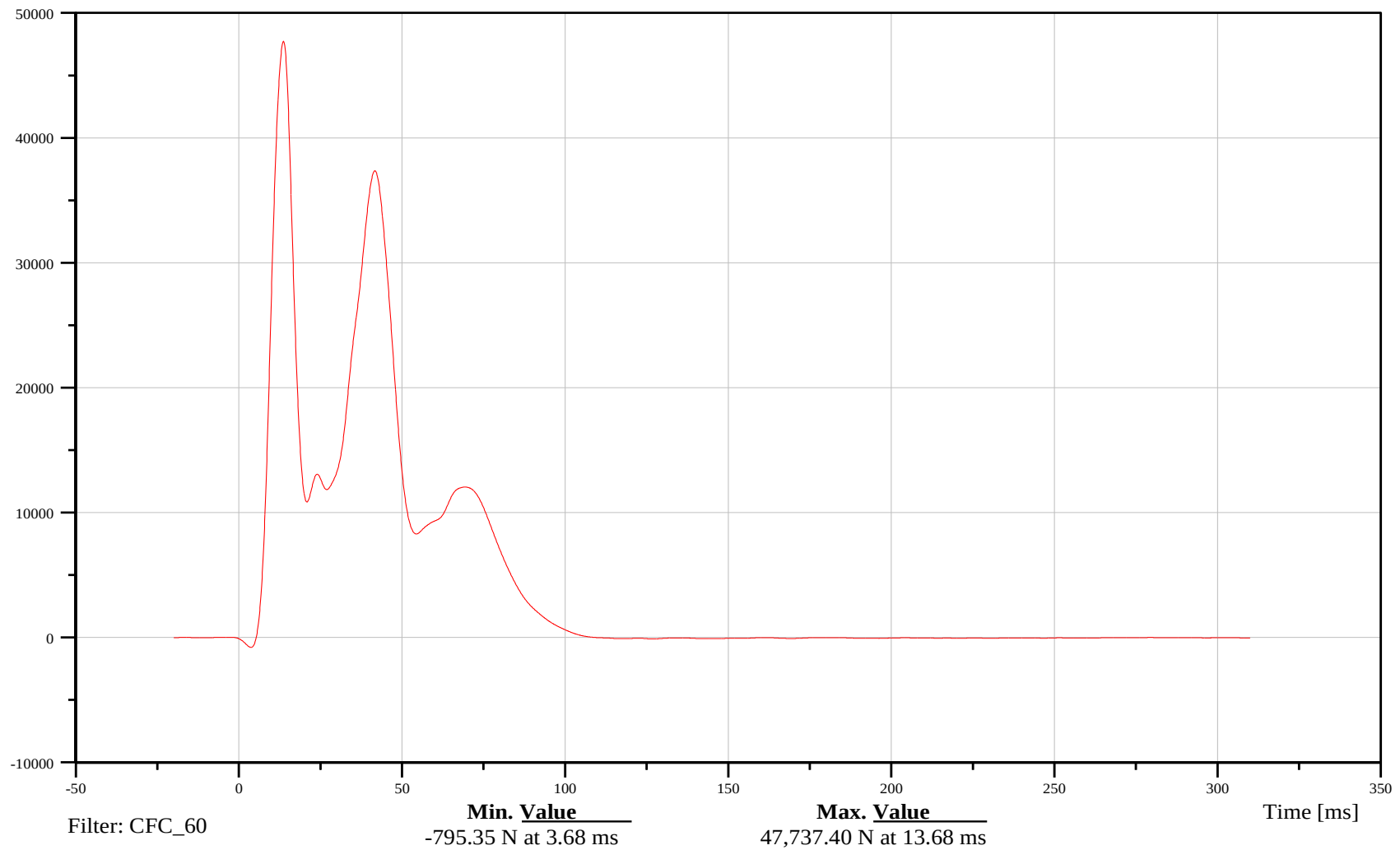
BARRIER 8-5 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

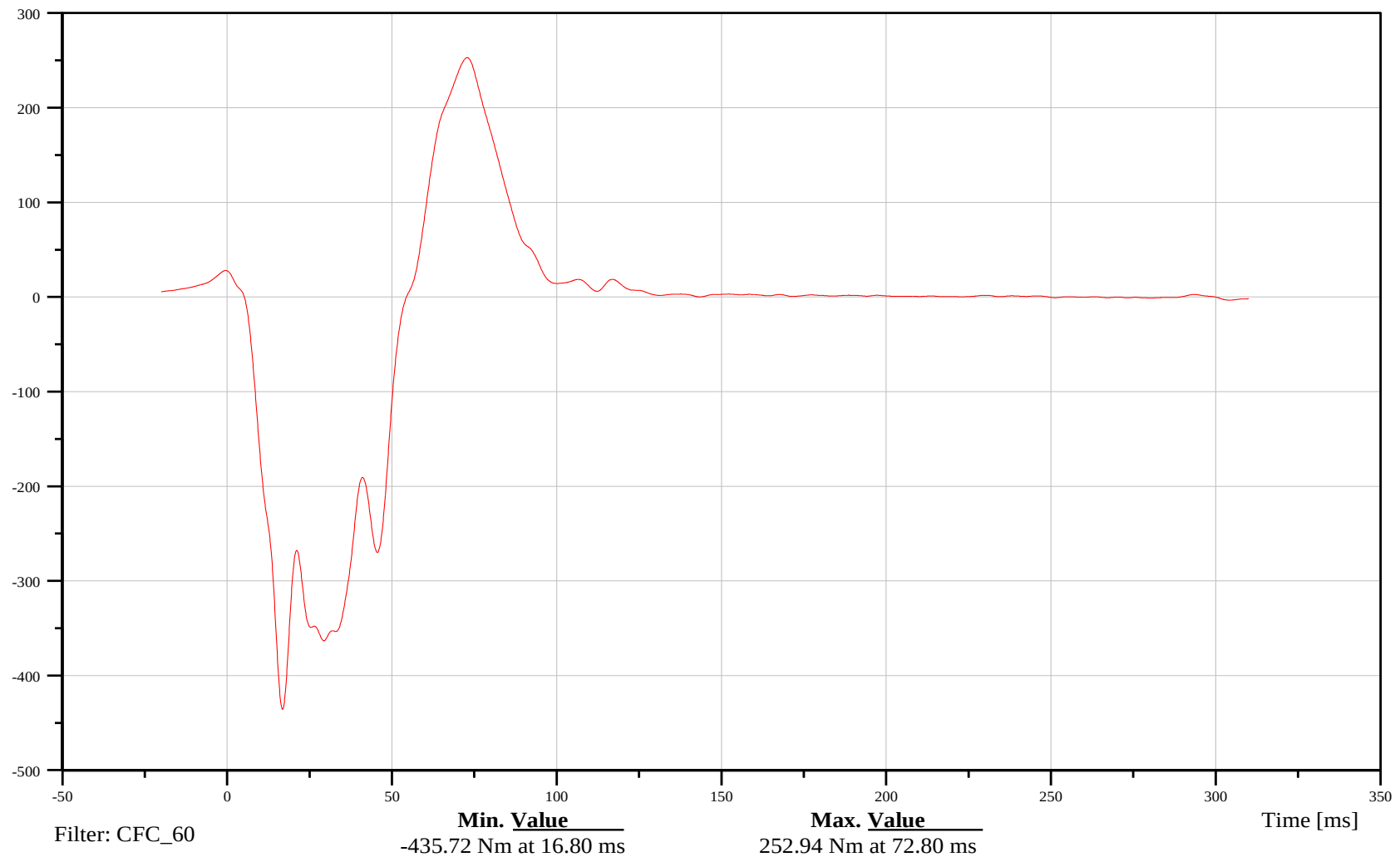
BARRIER 8-5 My

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080500MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

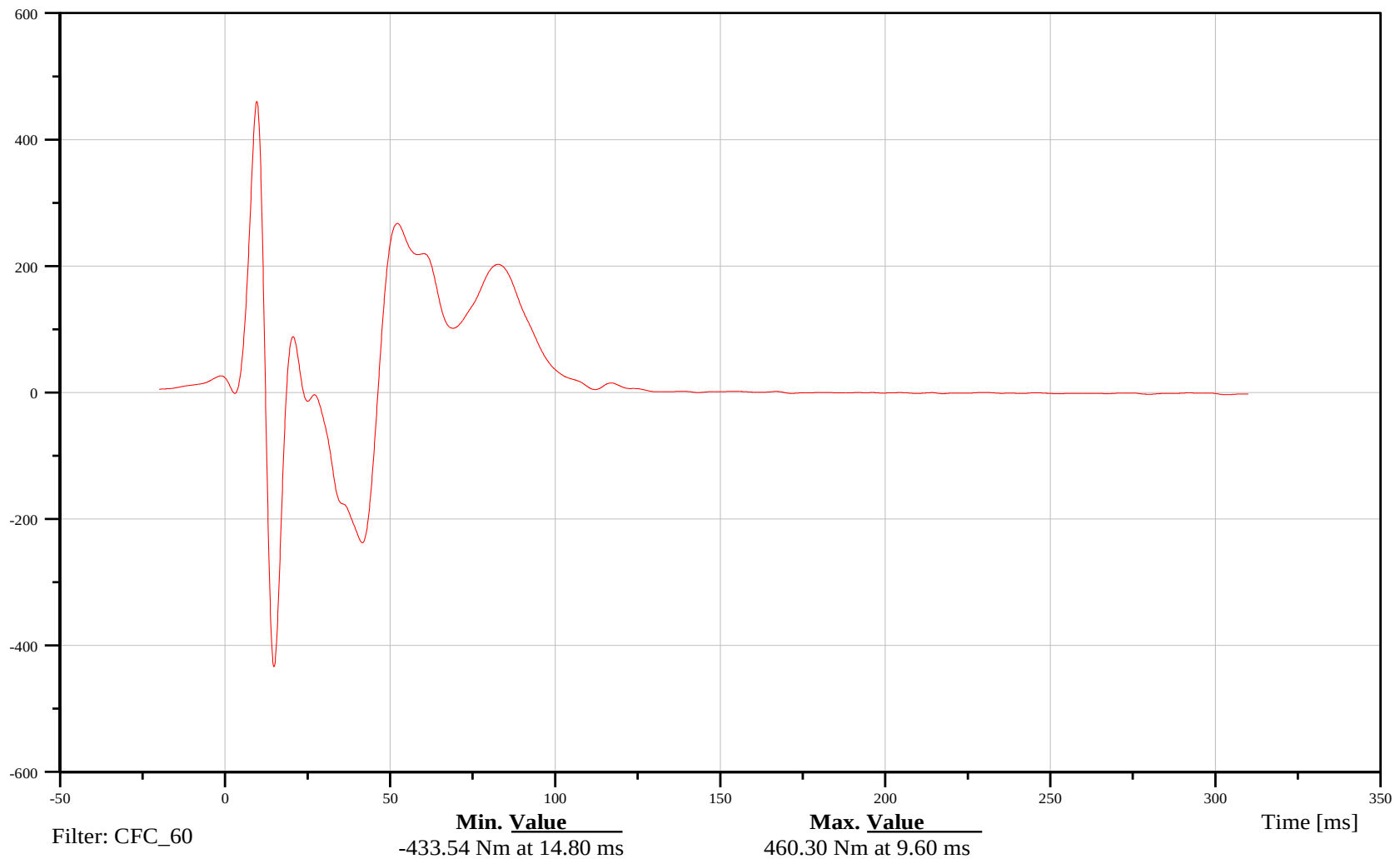
BARRIER 8-5 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080500MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

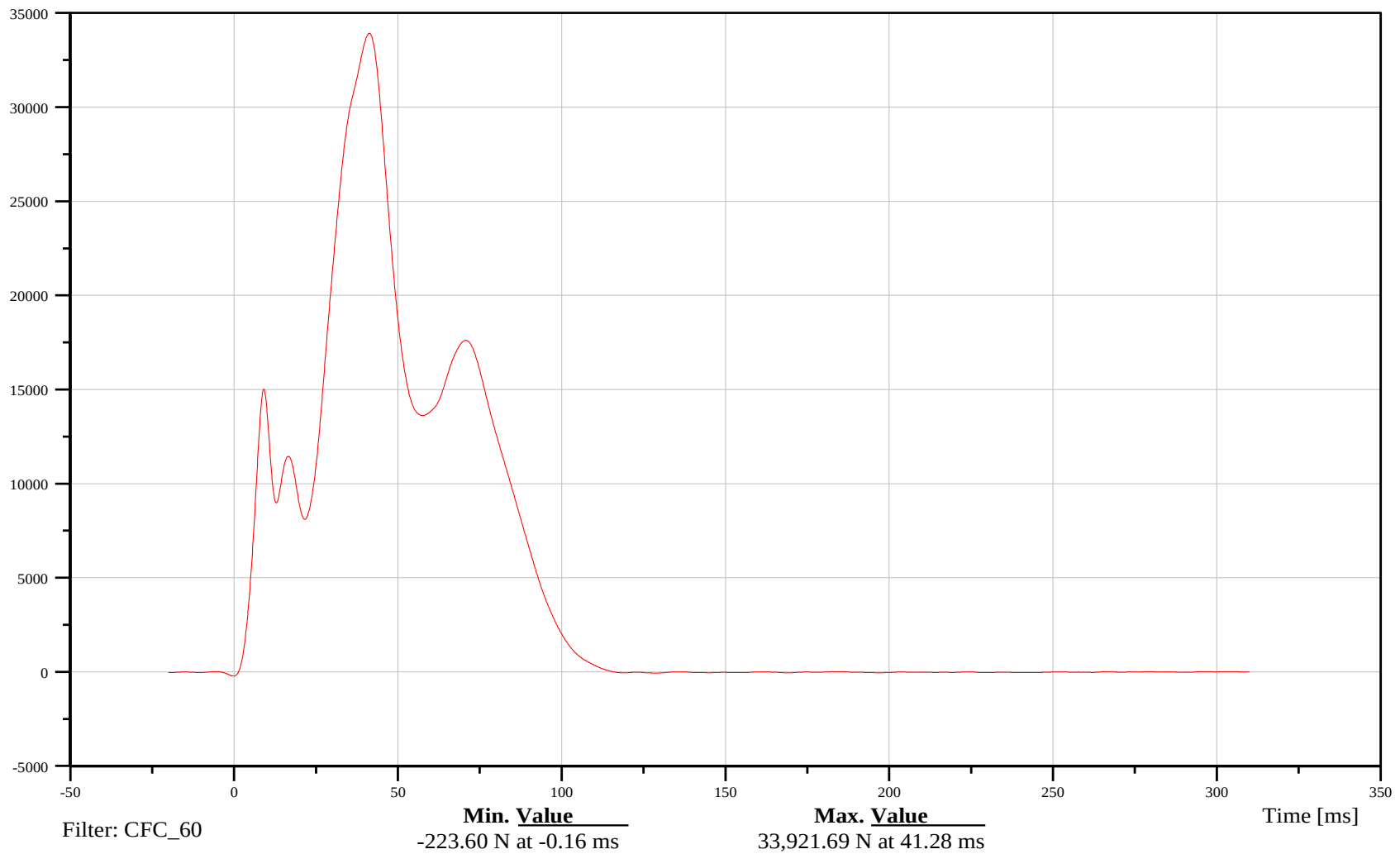
BARRIER 8-6 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

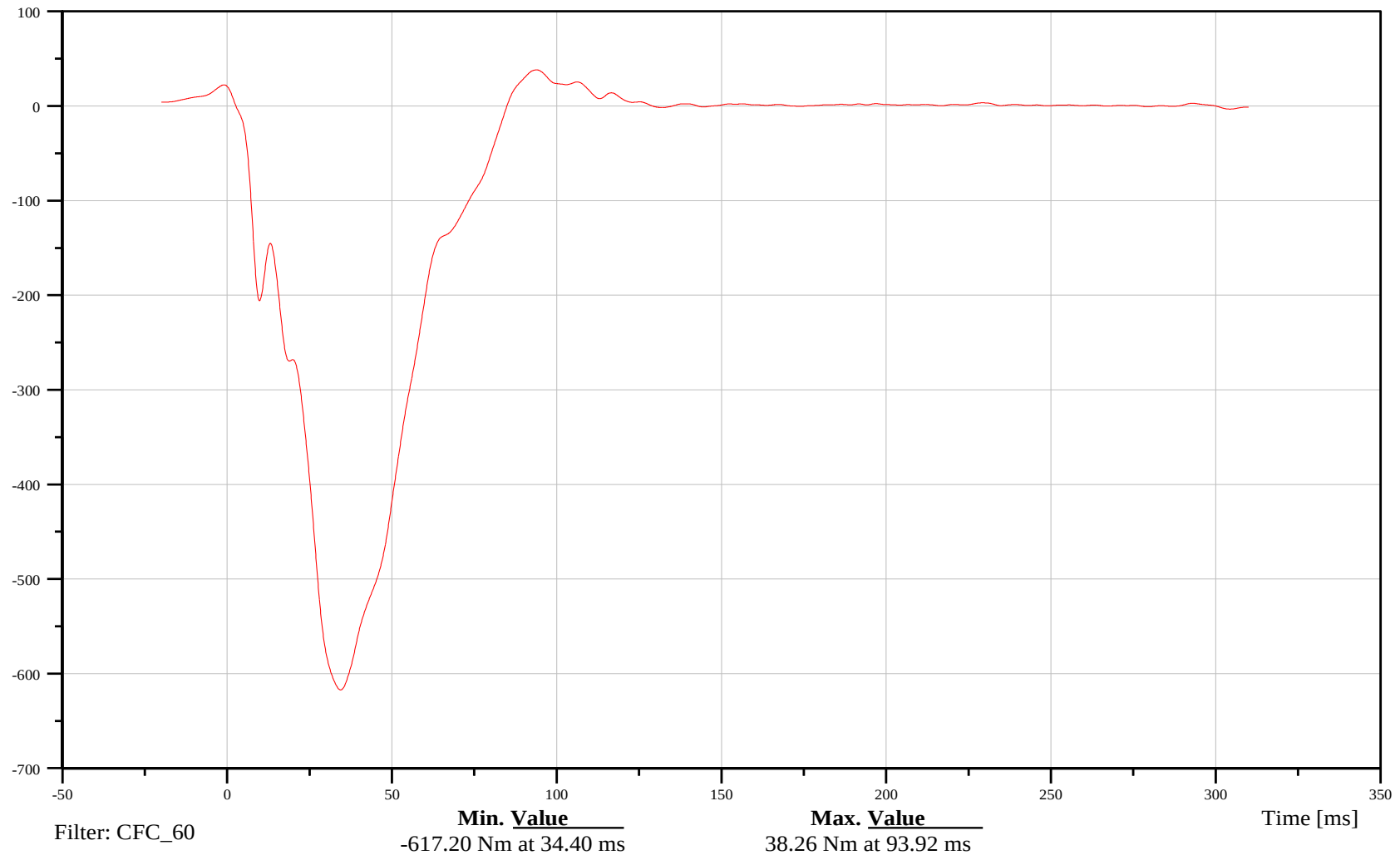
BARRIER 8-6 My

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080600MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

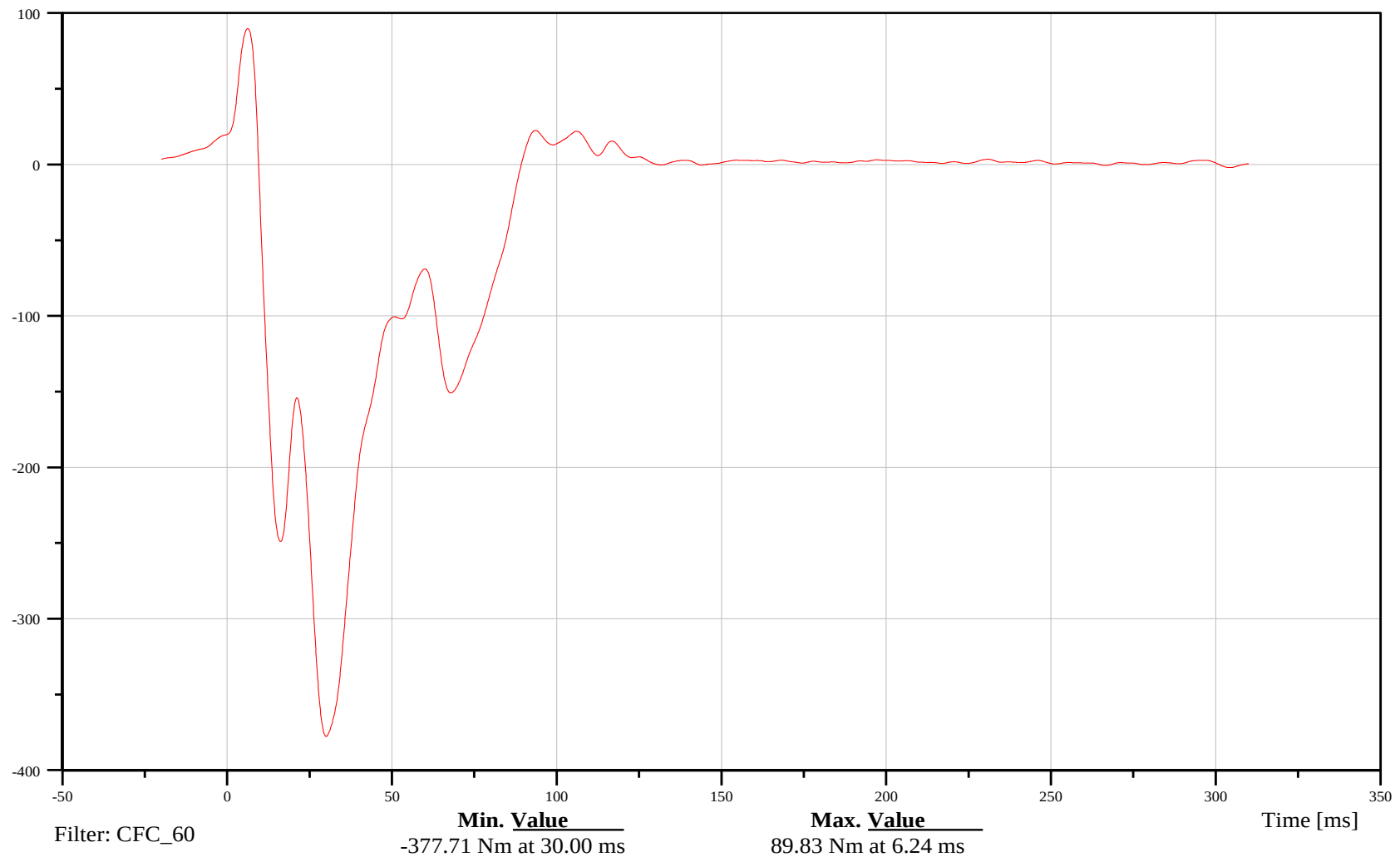
BARRIER 8-6 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080600MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

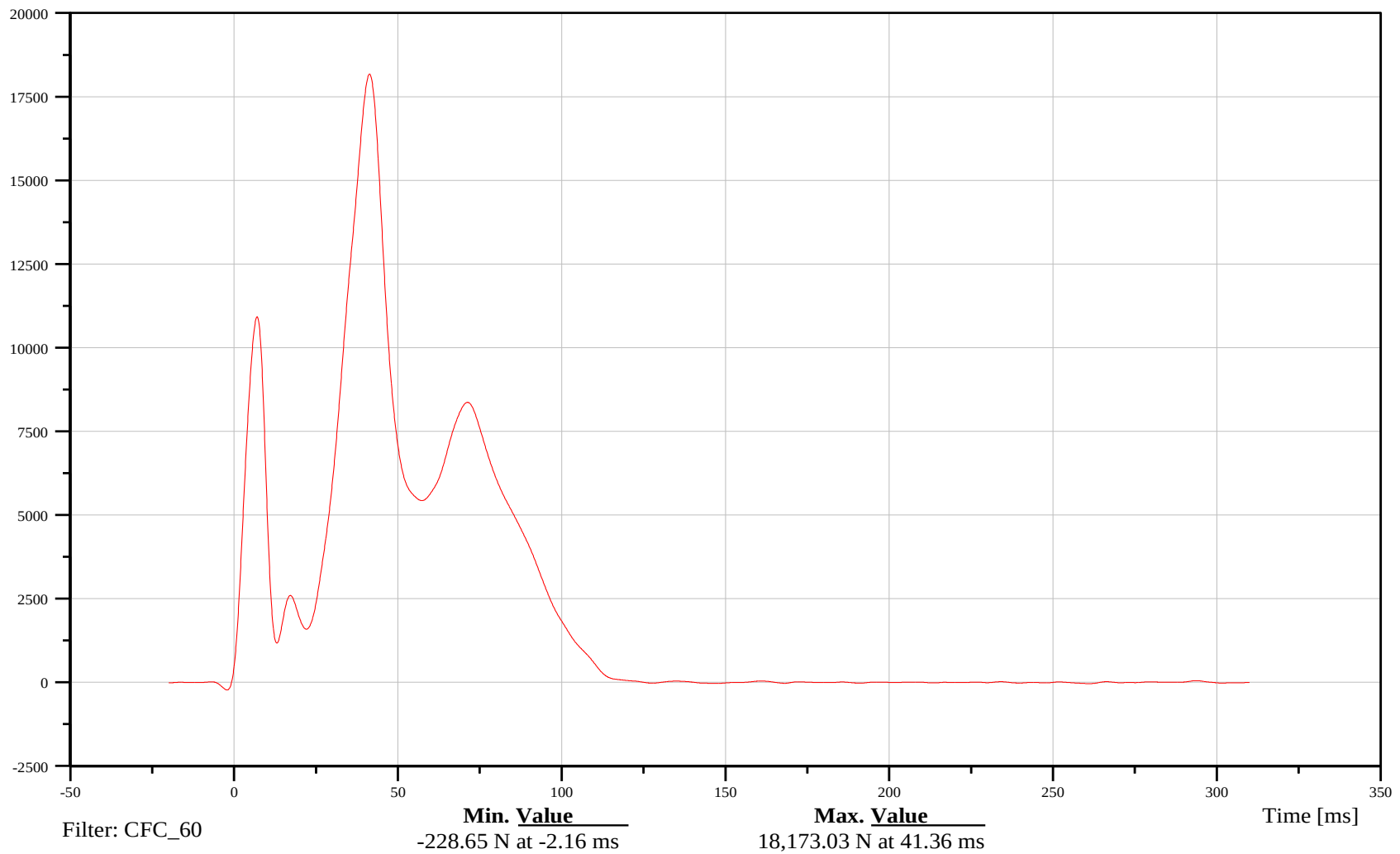
BARRIER 8-7 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080700FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

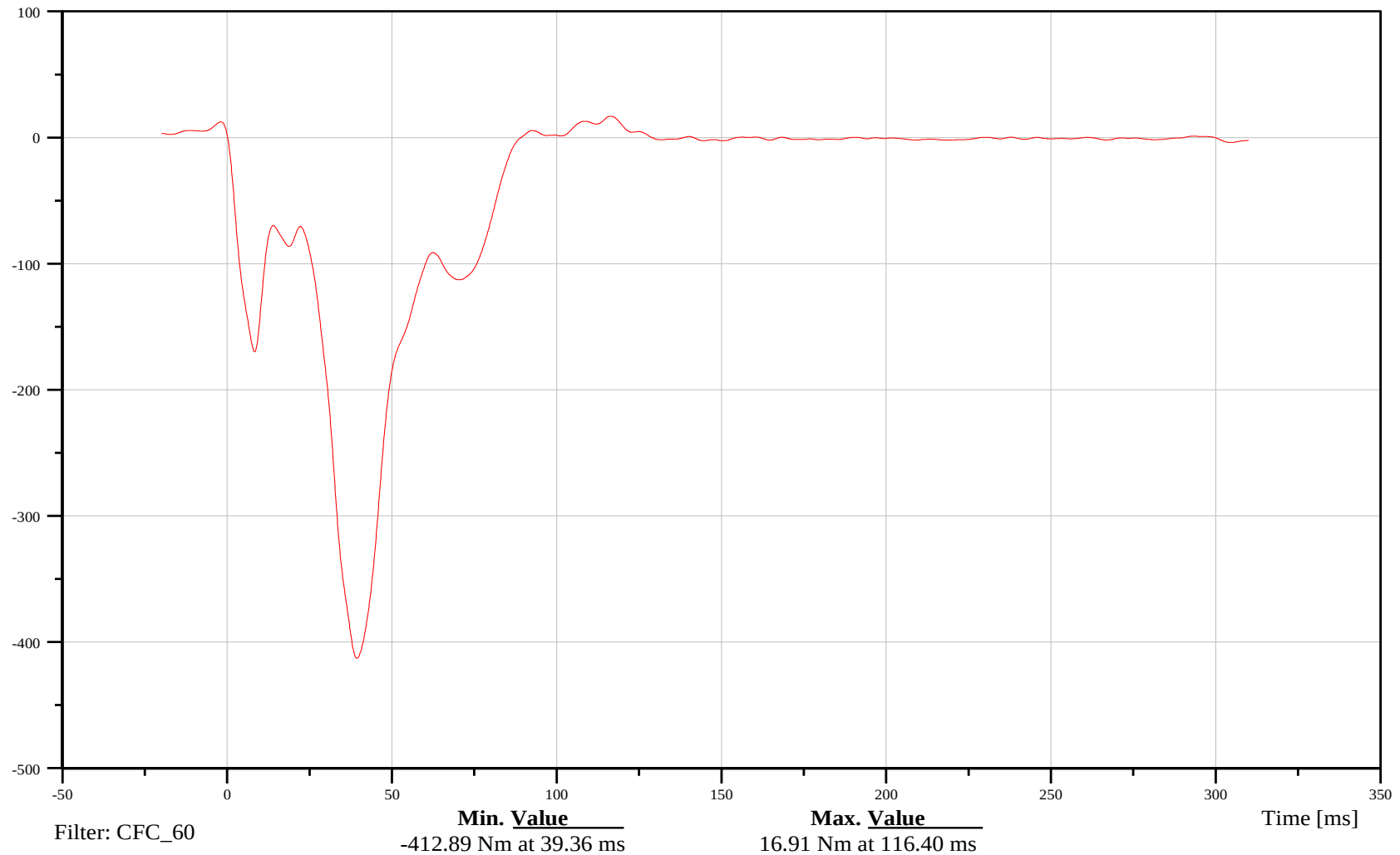
Date: 11/14/2013
Time: 15:28

BARRIER 8-7 My

Customer: VRTC
Test Number: 131114

B0FBAR080700MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

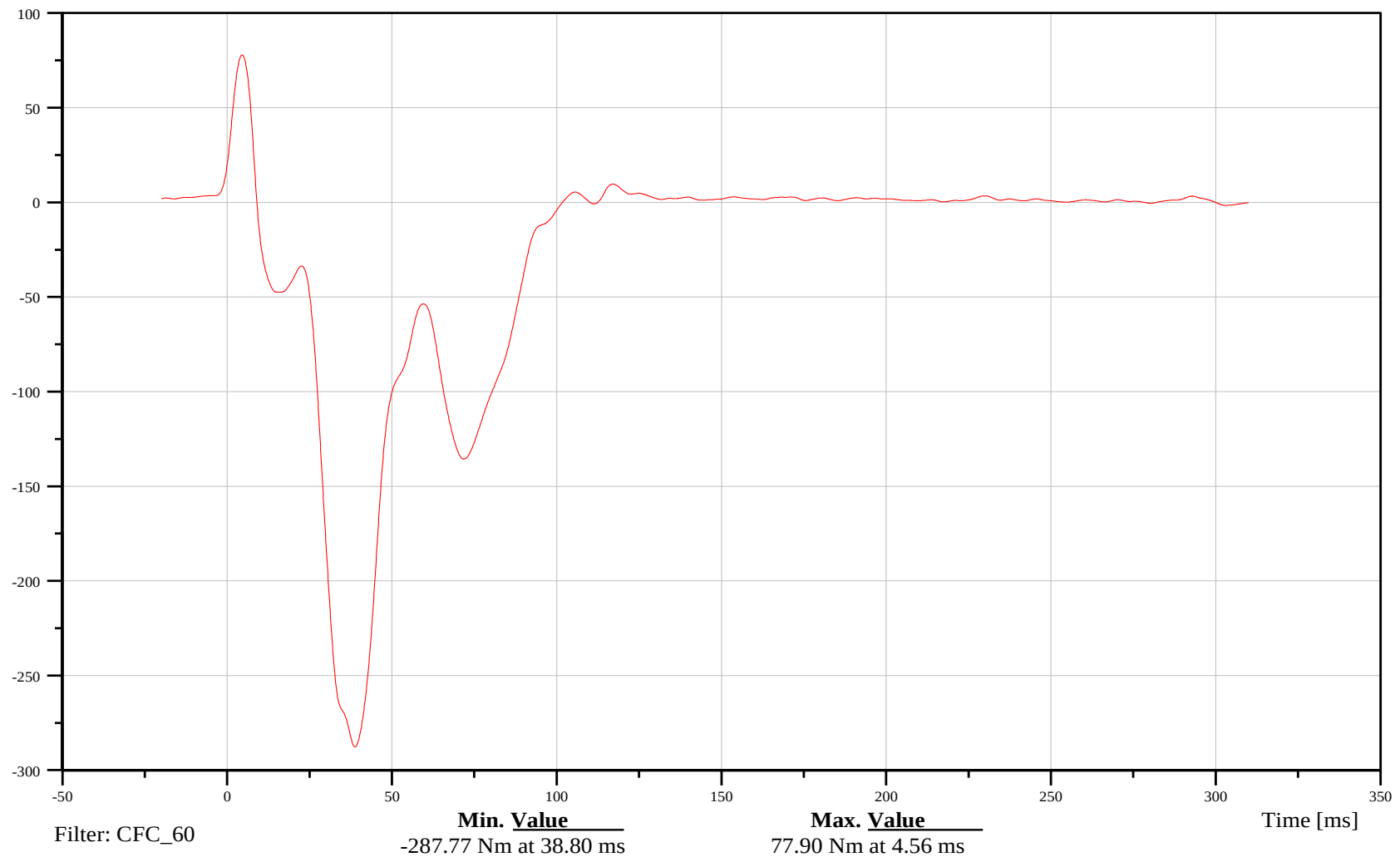
BARRIER 8-7 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080700MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

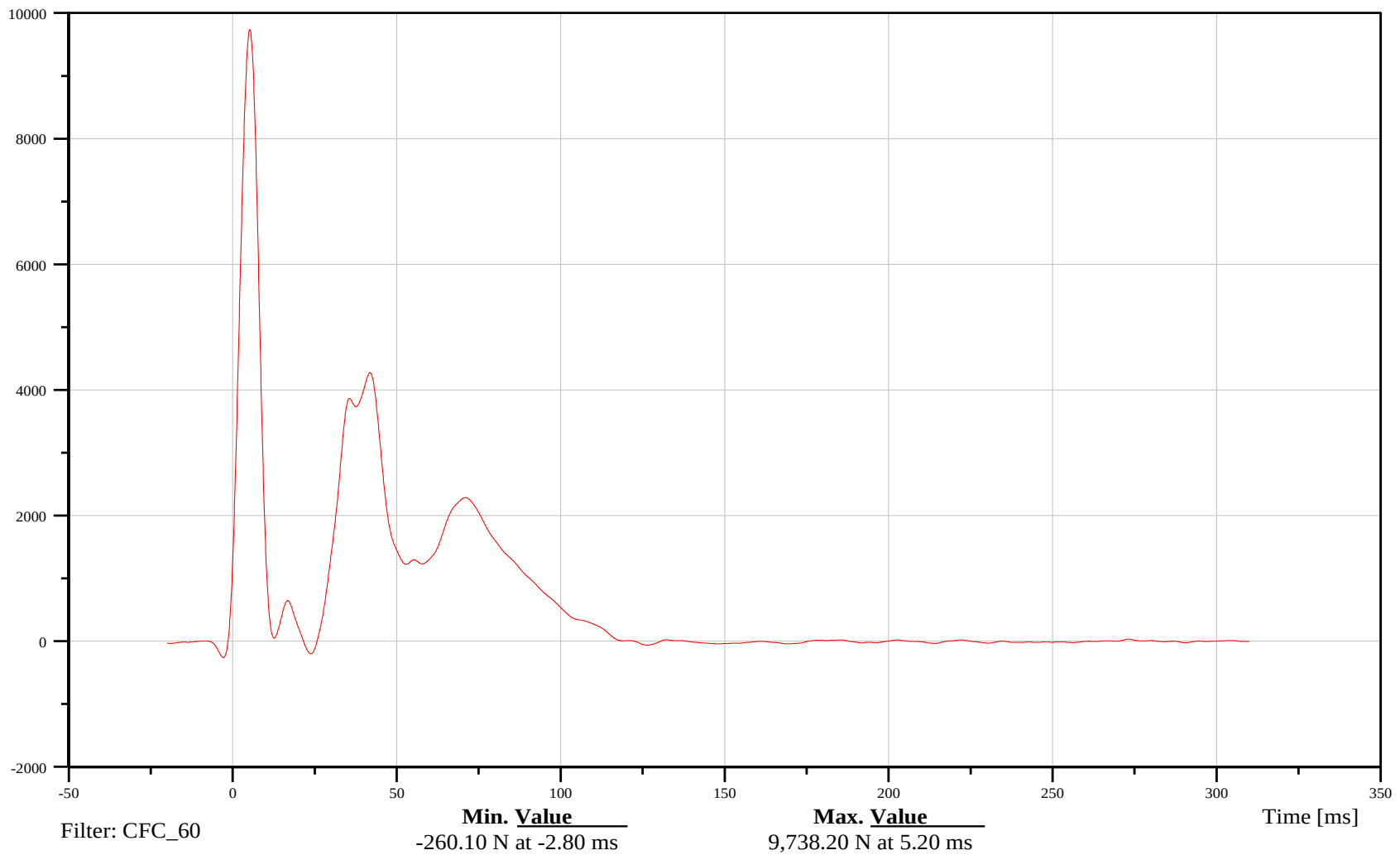
BARRIER 8-8 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080800FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

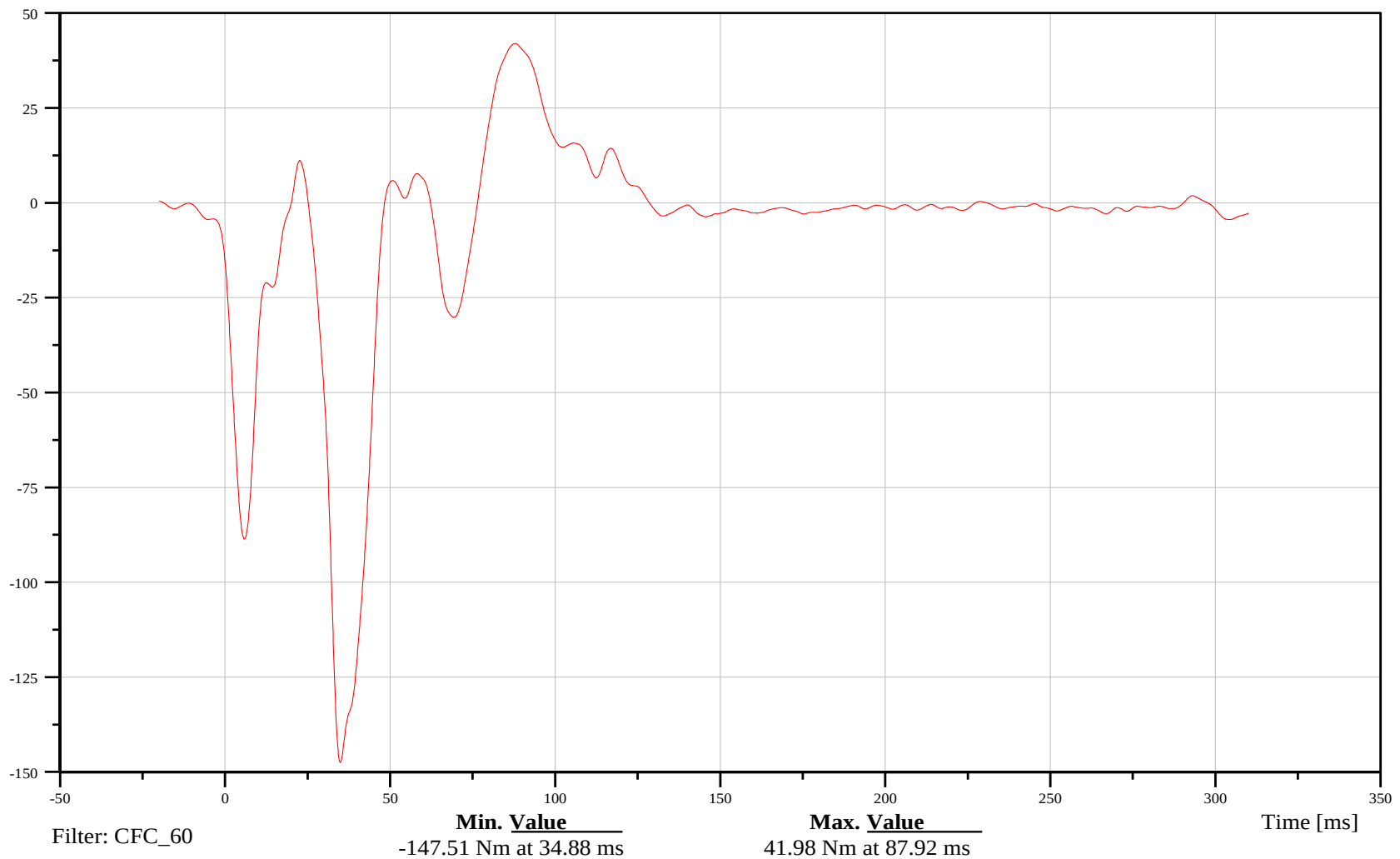
Date: 11/14/2013
Time: 15:28

BARRIER 8-8 My

Customer: VRTC
Test Number: 131114

B0FBAR080800MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

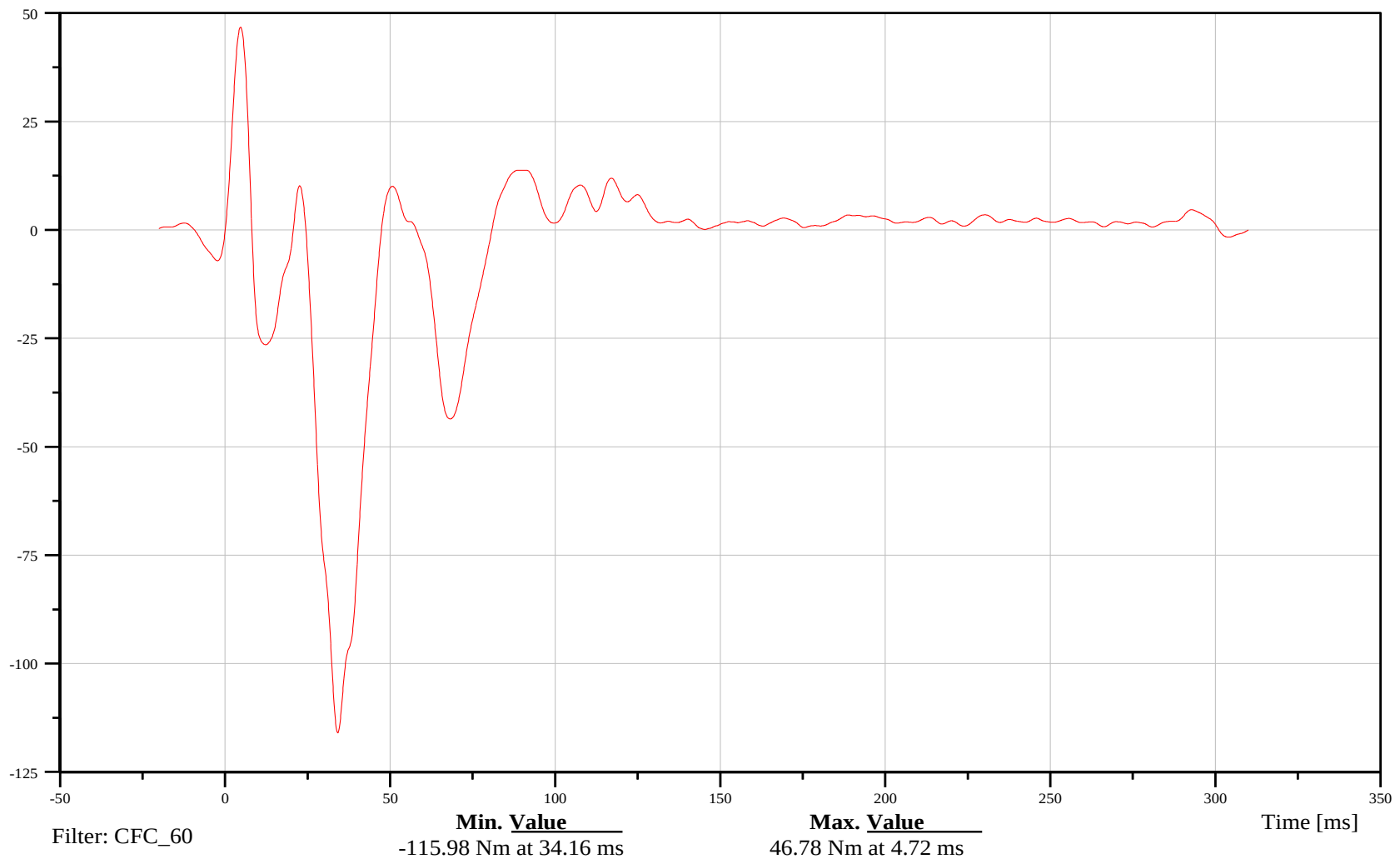
BARRIER 8-8 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080800MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

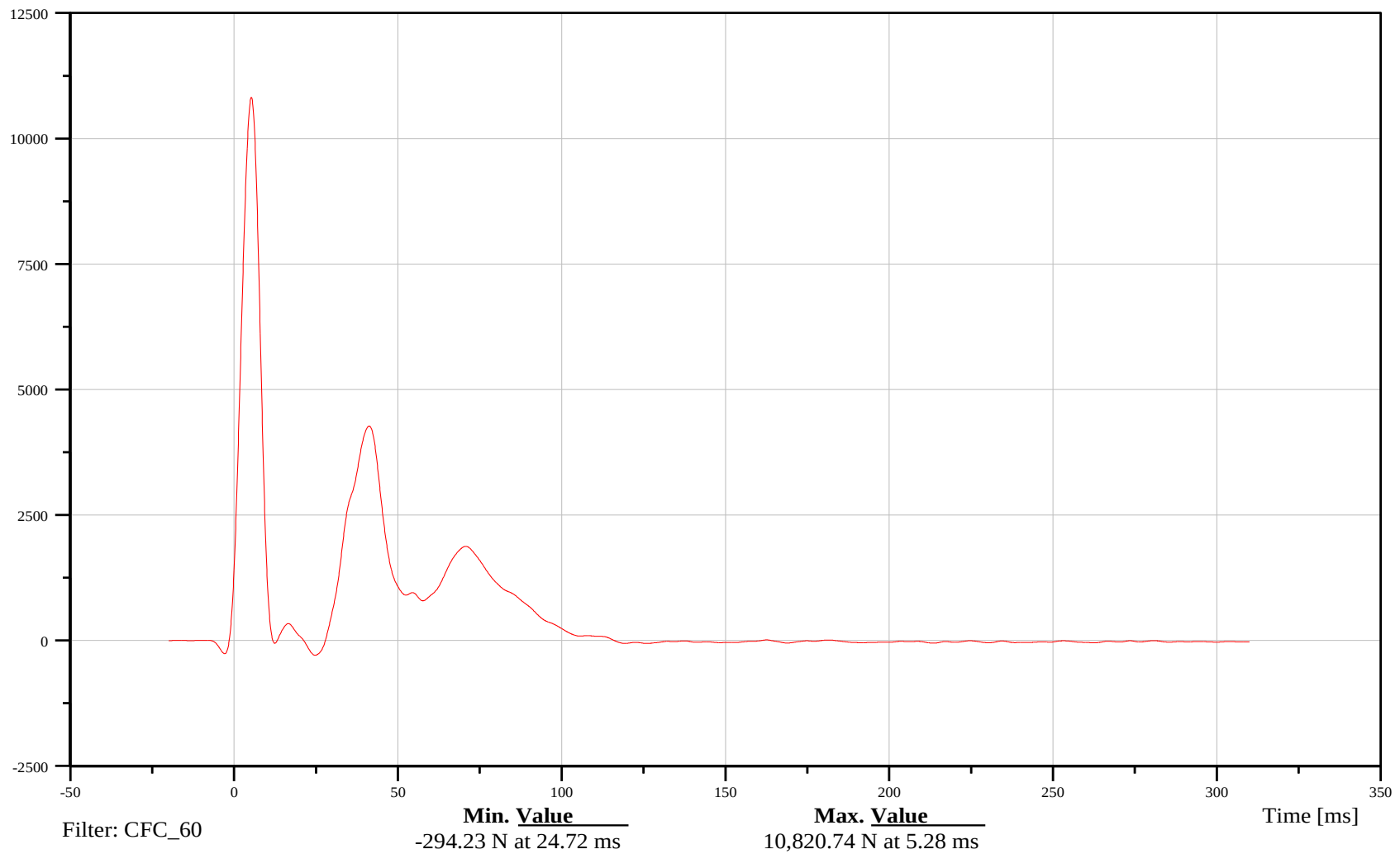
BARRIER 8-9 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR080900FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

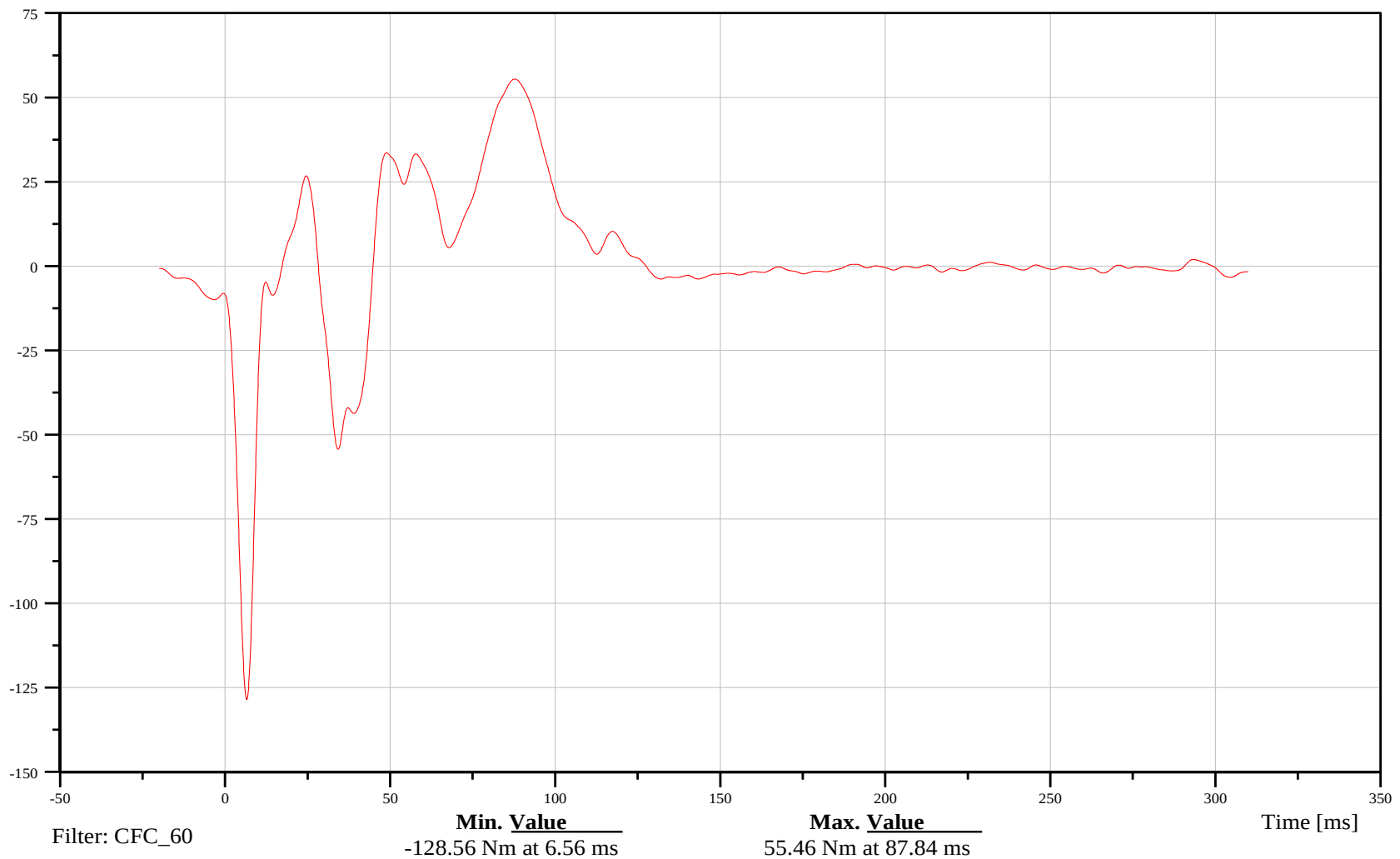
Date: 11/14/2013
Time: 15:28

BARRIER 8-9 My

Customer: VRTC
Test Number: 131114

B0FBAR080900MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

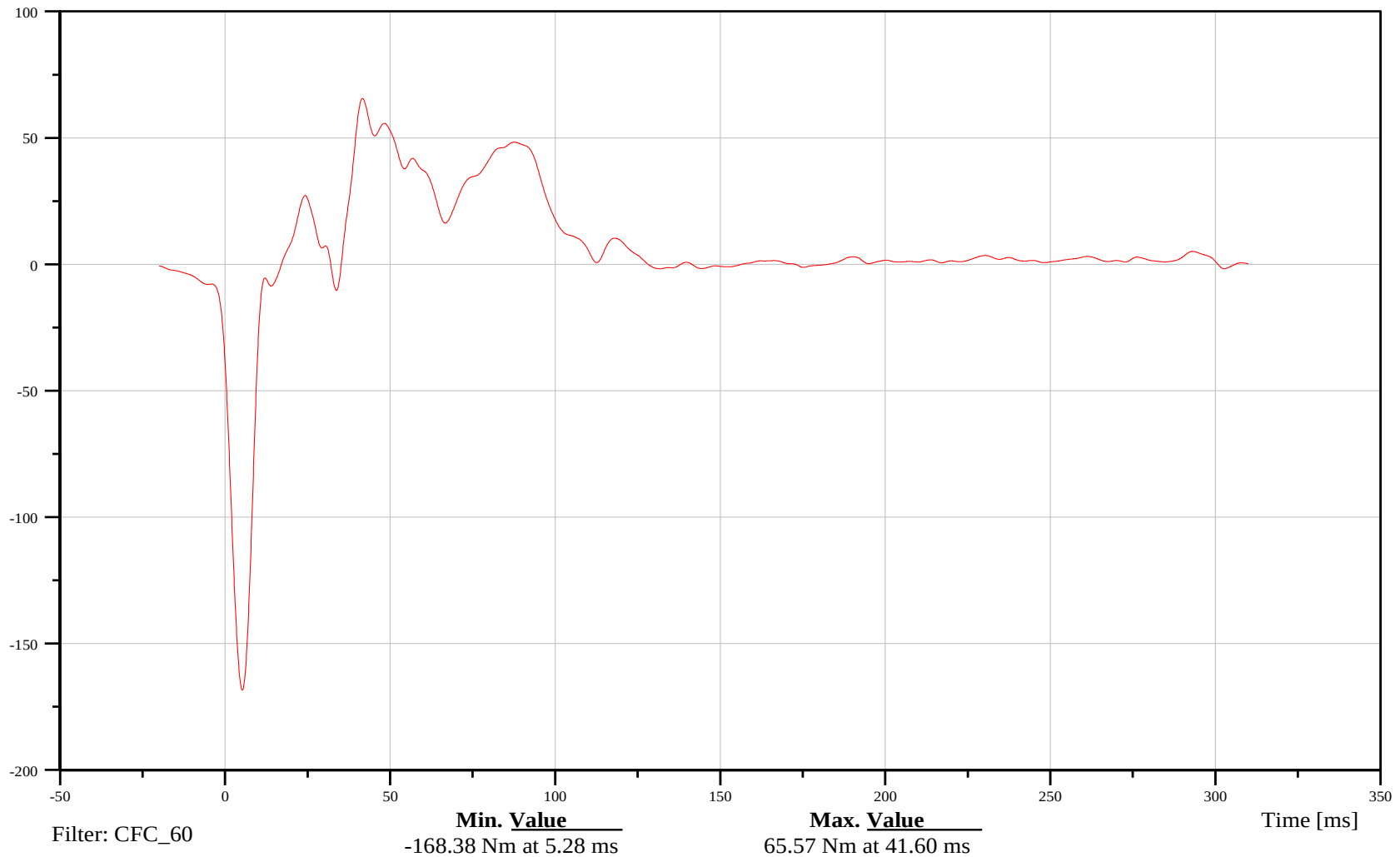
Date: 11/14/2013
Time: 15:28

BARRIER 8-9 Mz

Customer: VRTC
Test Number: 131114

B0FBAR080900MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

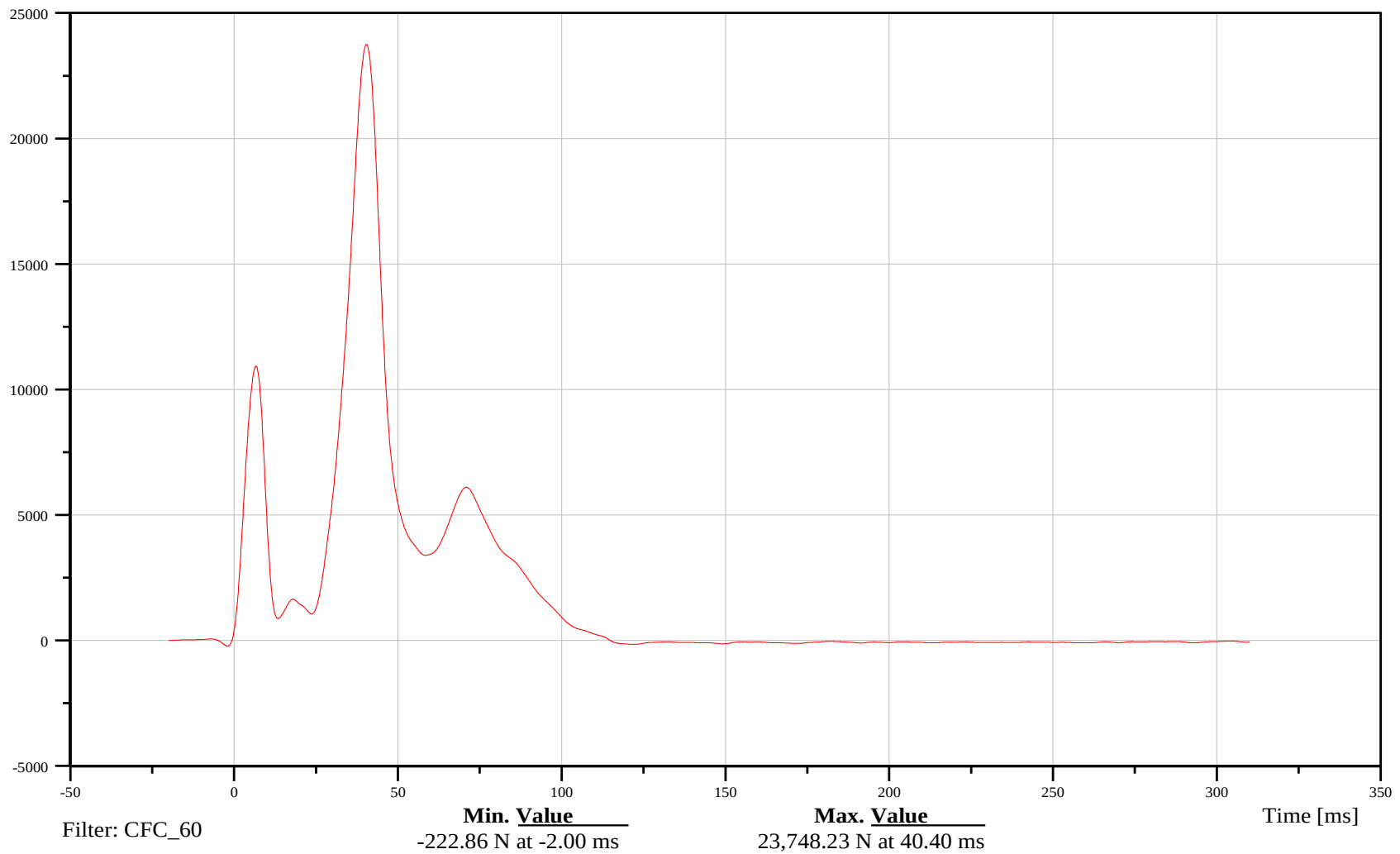
BARRIER 8-10 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR081000FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

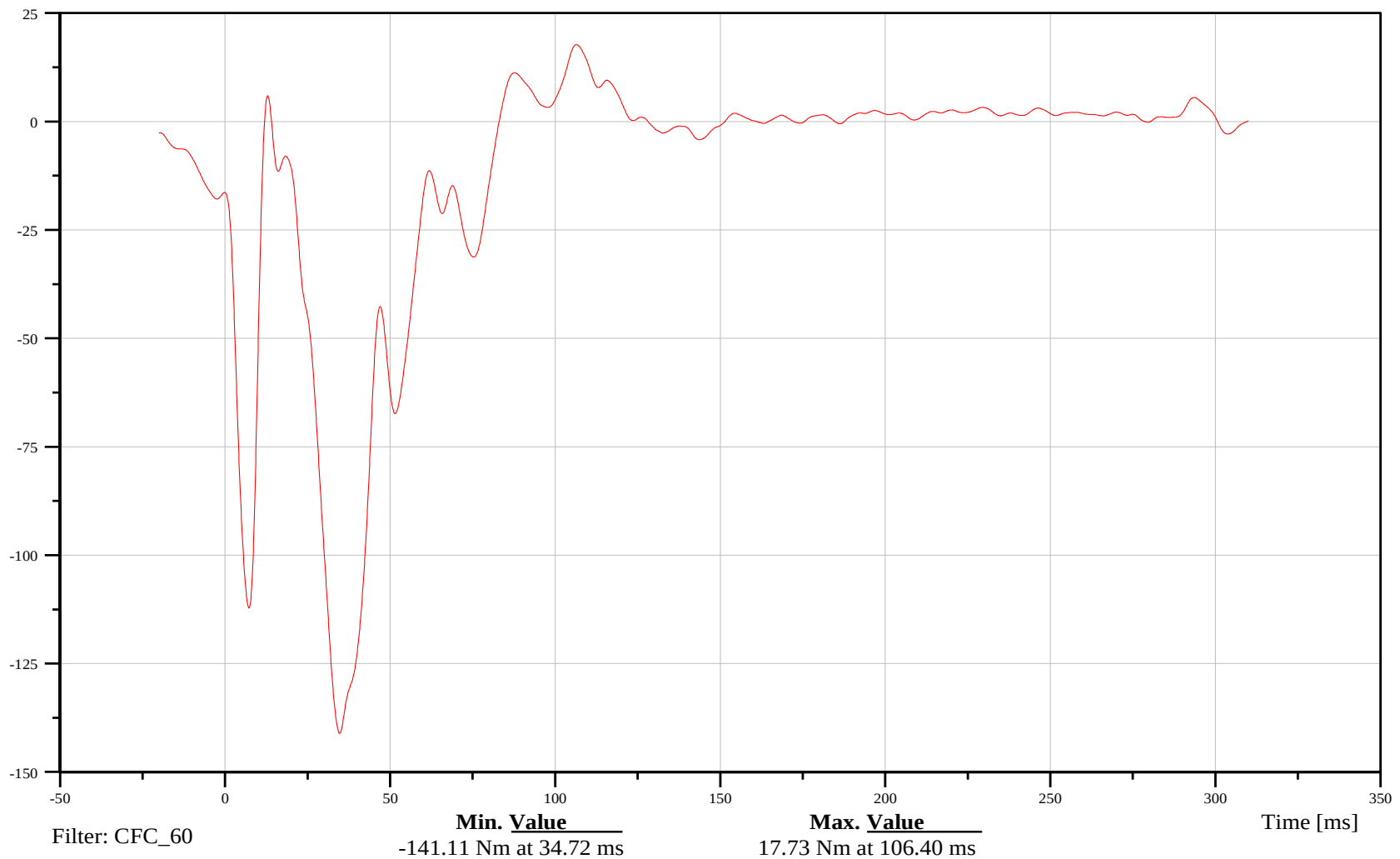
Date: 11/14/2013
Time: 15:28

BARRIER 8-10 My

Customer: VRTC
Test Number: 131114

B0FBAR081000MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

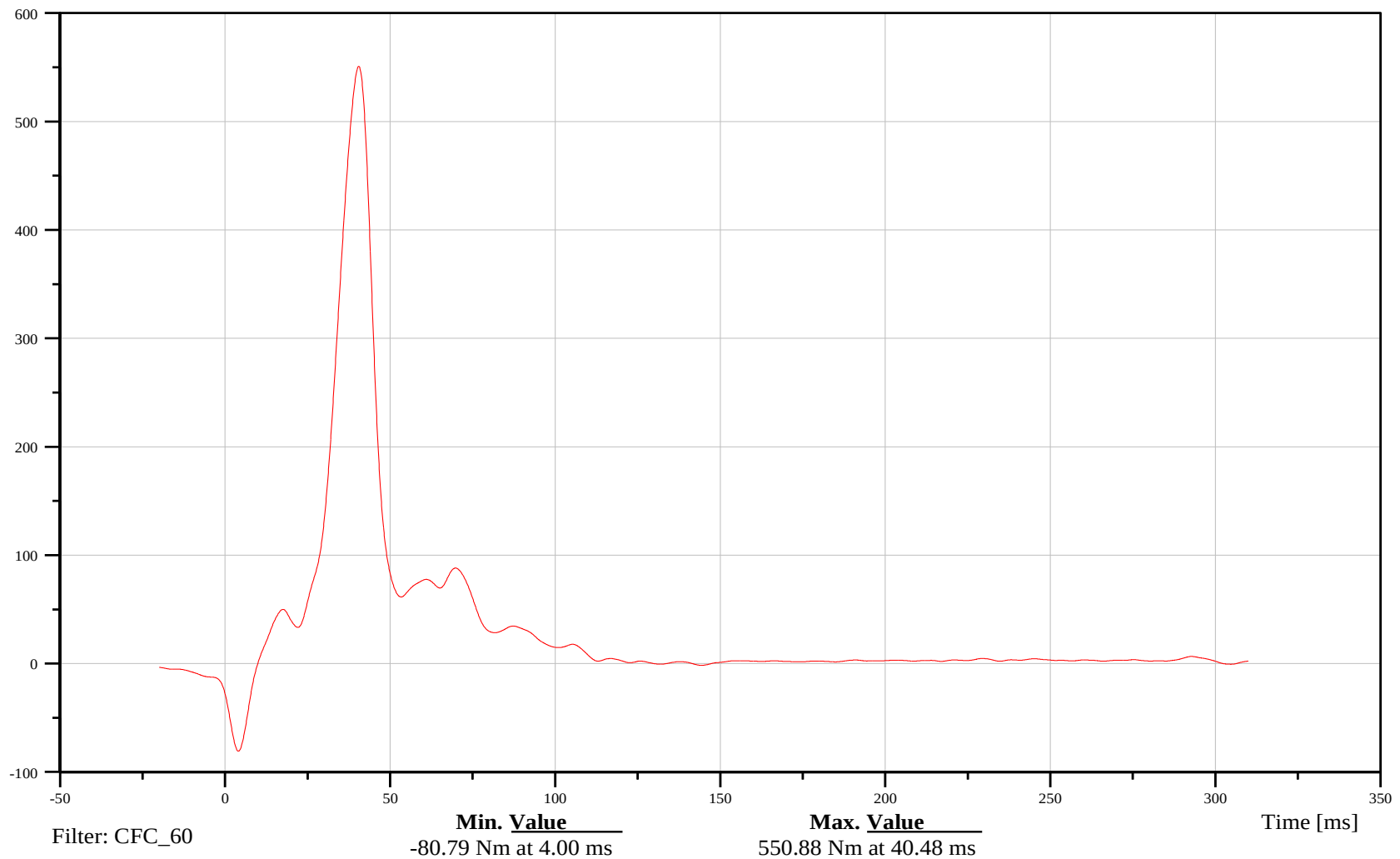
BARRIER 8-10 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR081000MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

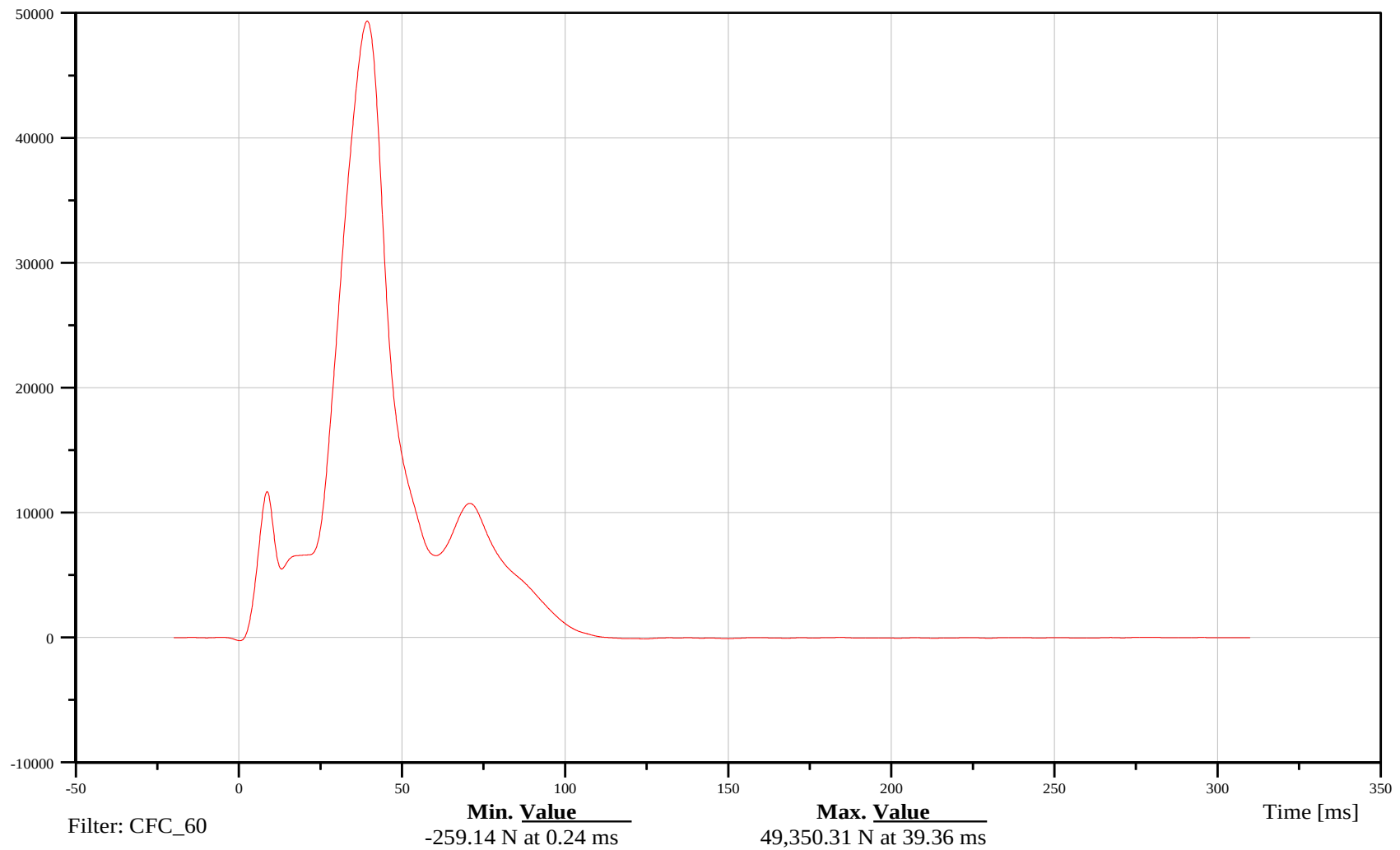
BARRIER 8-11 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR081100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

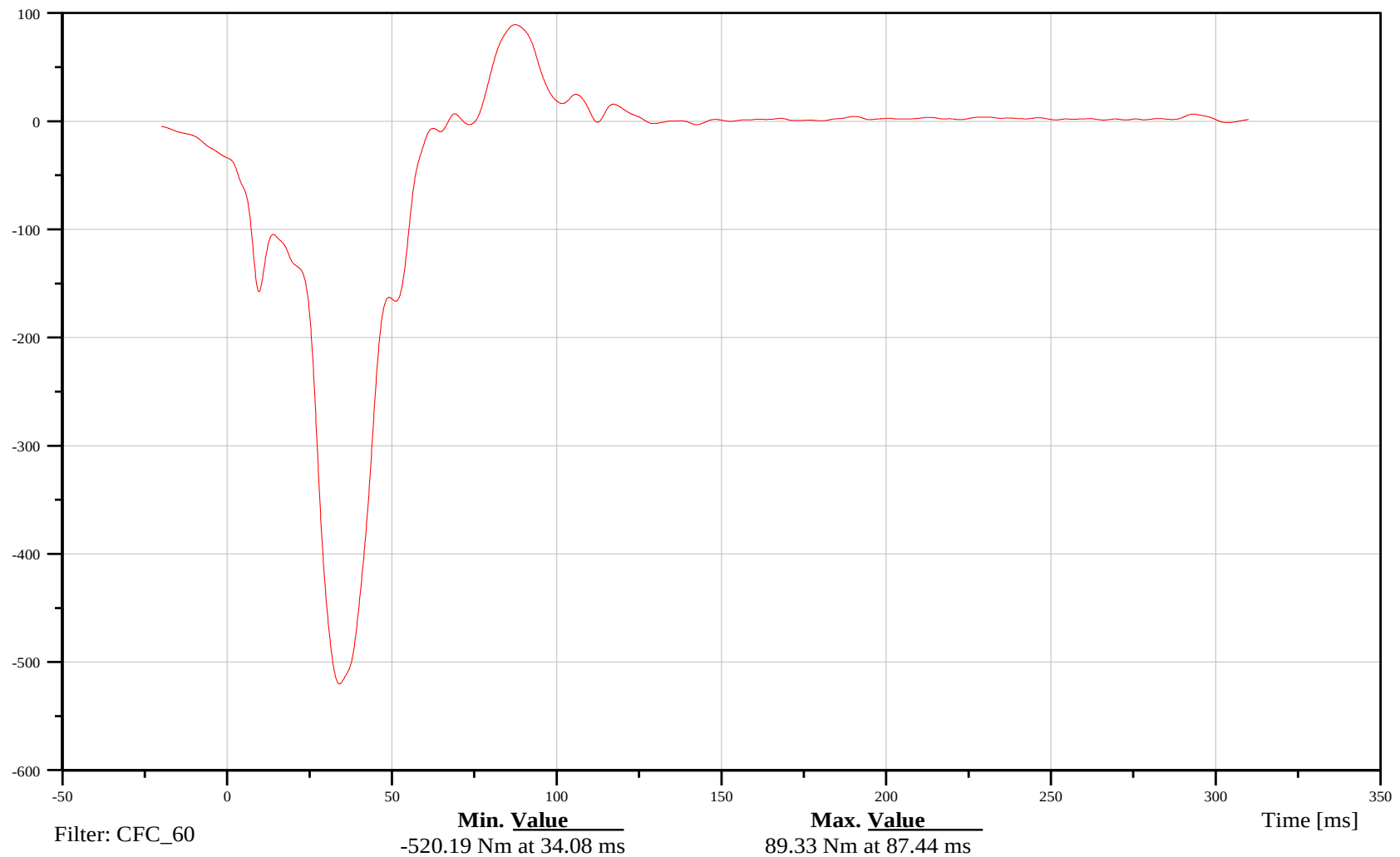
Date: 11/14/2013
Time: 15:28

BARRIER 8-11 My

Customer: VRTC
Test Number: 131114

B0FBAR081100MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

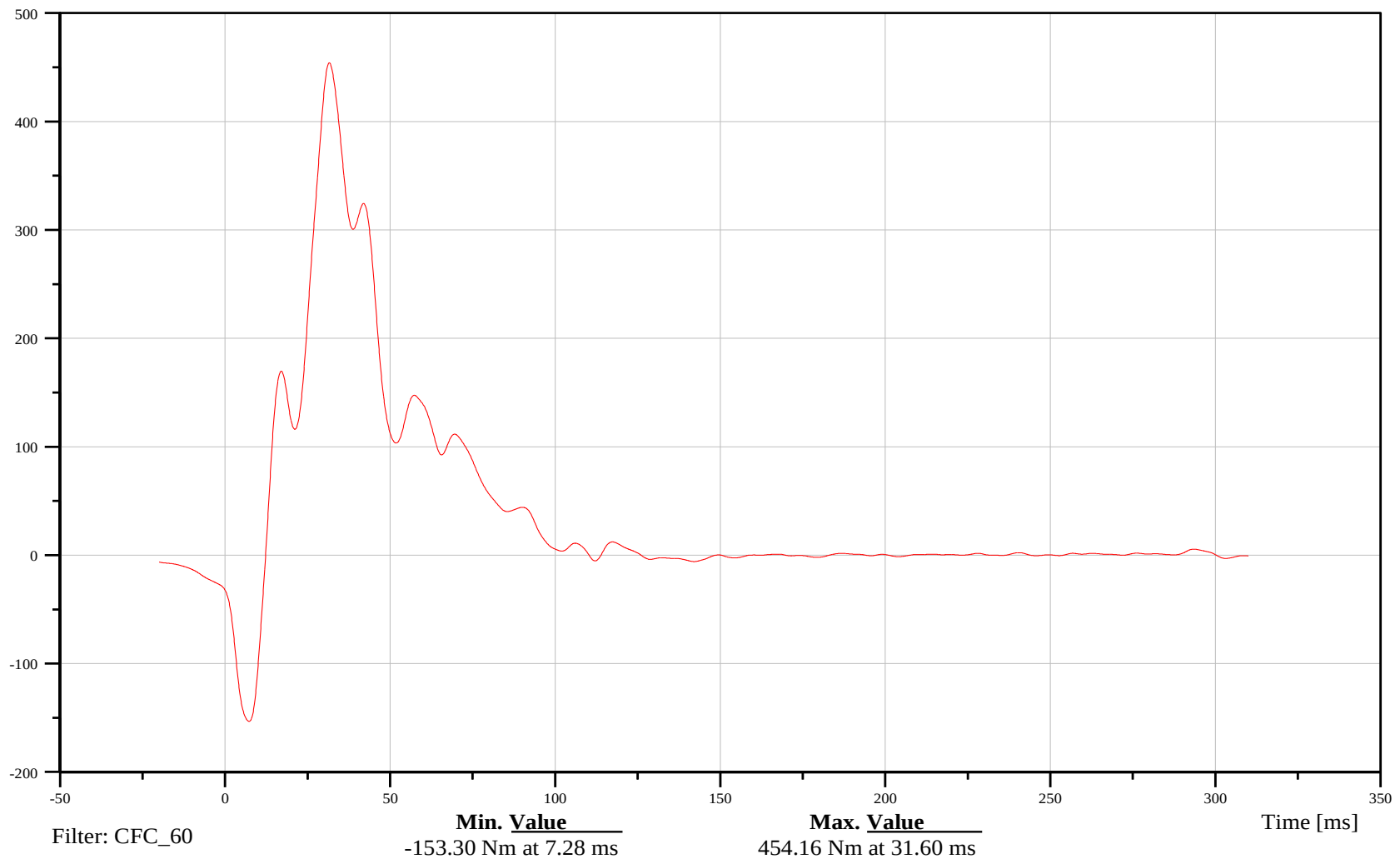
BARRIER 8-11 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR081100MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

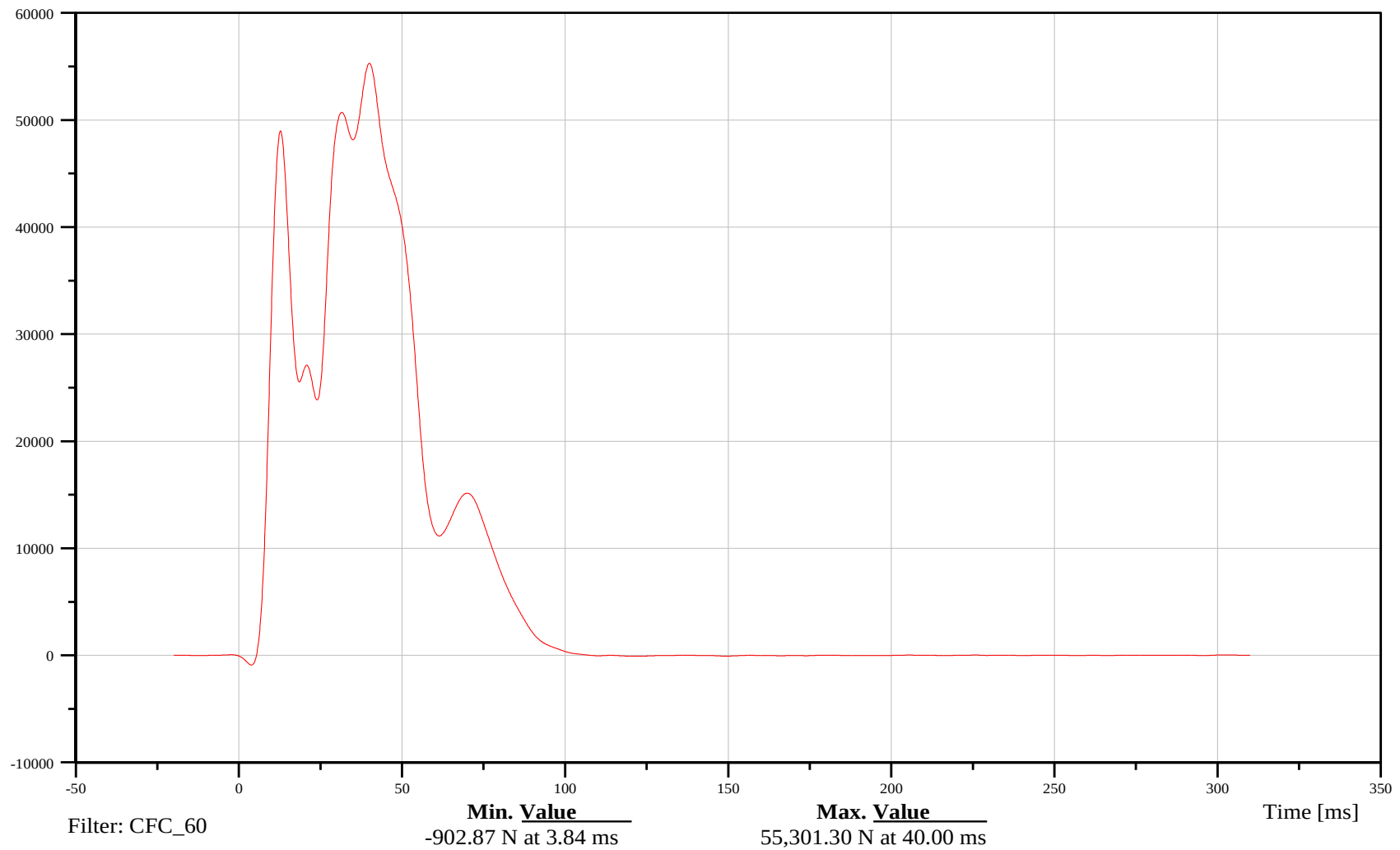
BARRIER 8-12 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR081200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

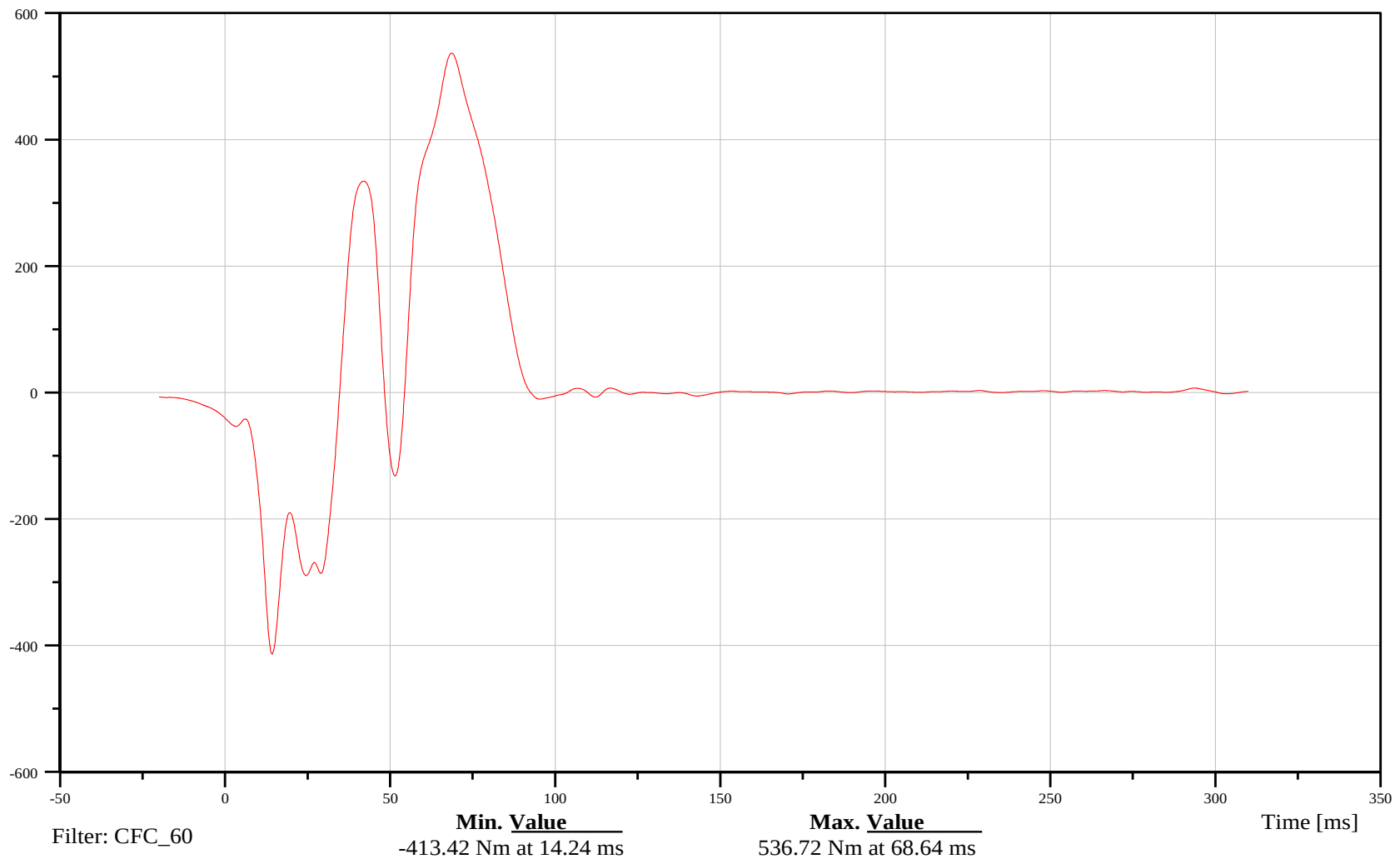
Date: 11/14/2013
Time: 15:28

BARRIER 8-12 My

Customer: VRTC
Test Number: 131114

B0FBAR081200MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

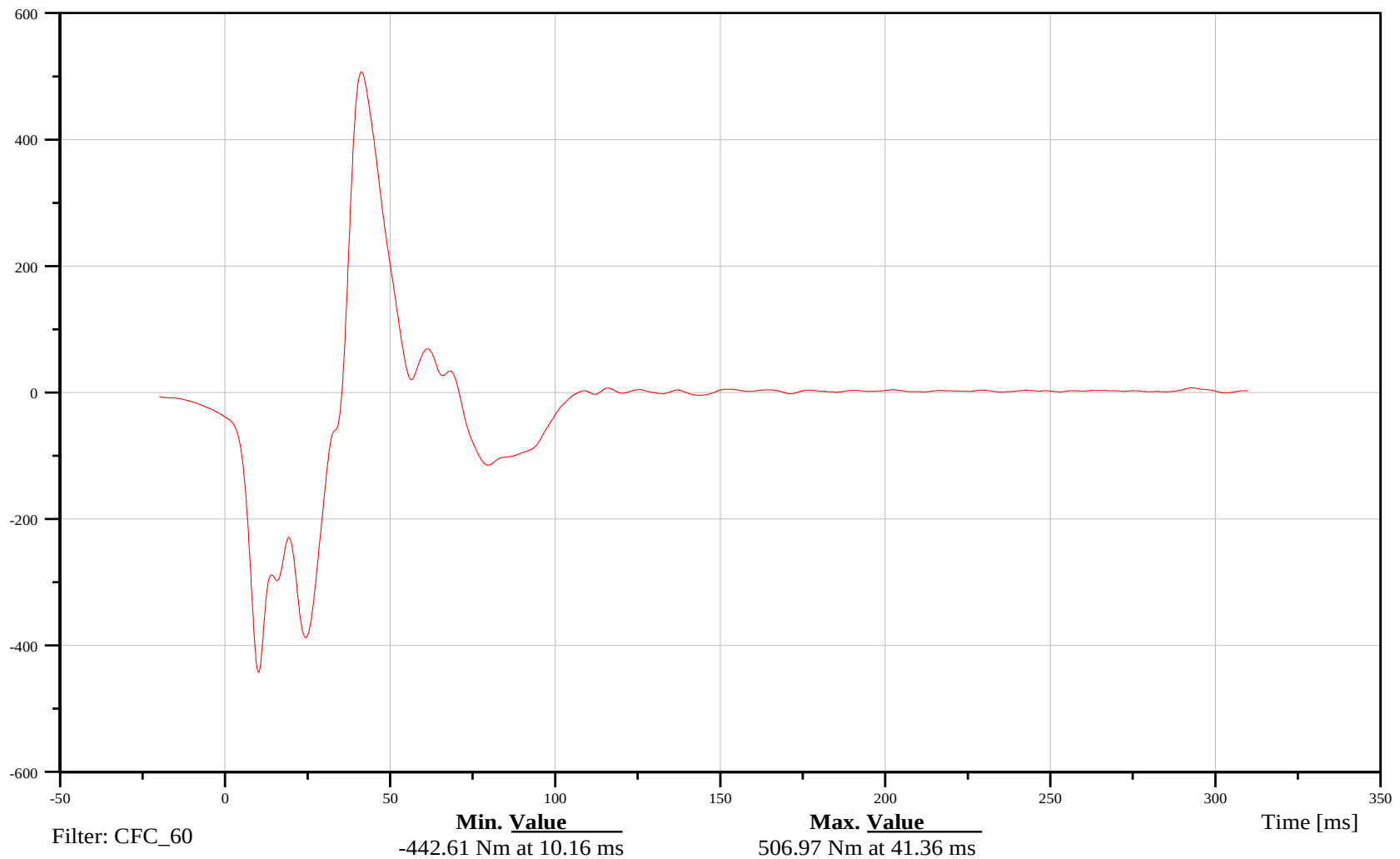
Date: 11/14/2013
Time: 15:28

BARRIER 8-12 Mz

Customer: VRTC
Test Number: 131114

B0FBAR081200MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

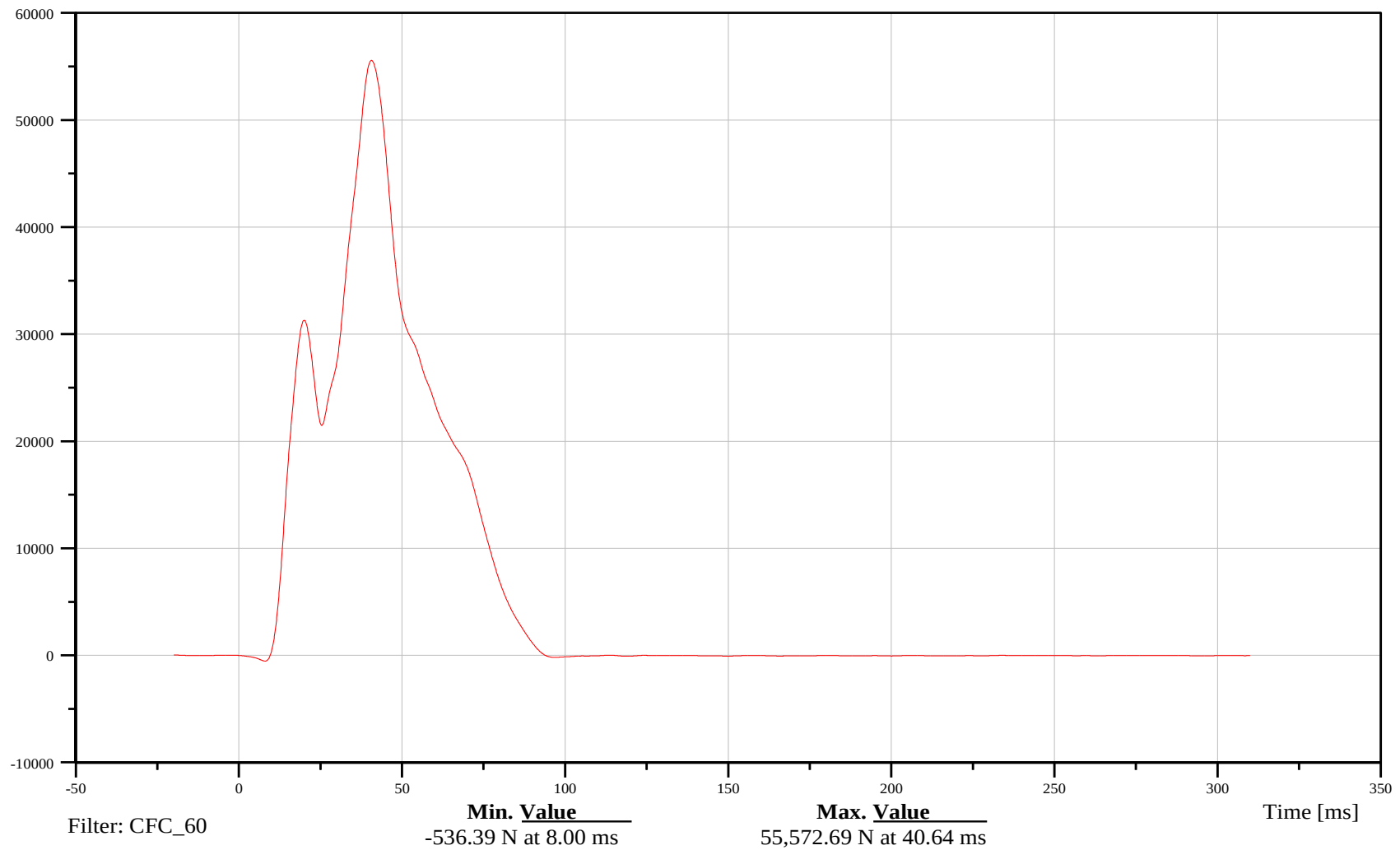
BARRIER 8-13 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR081300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

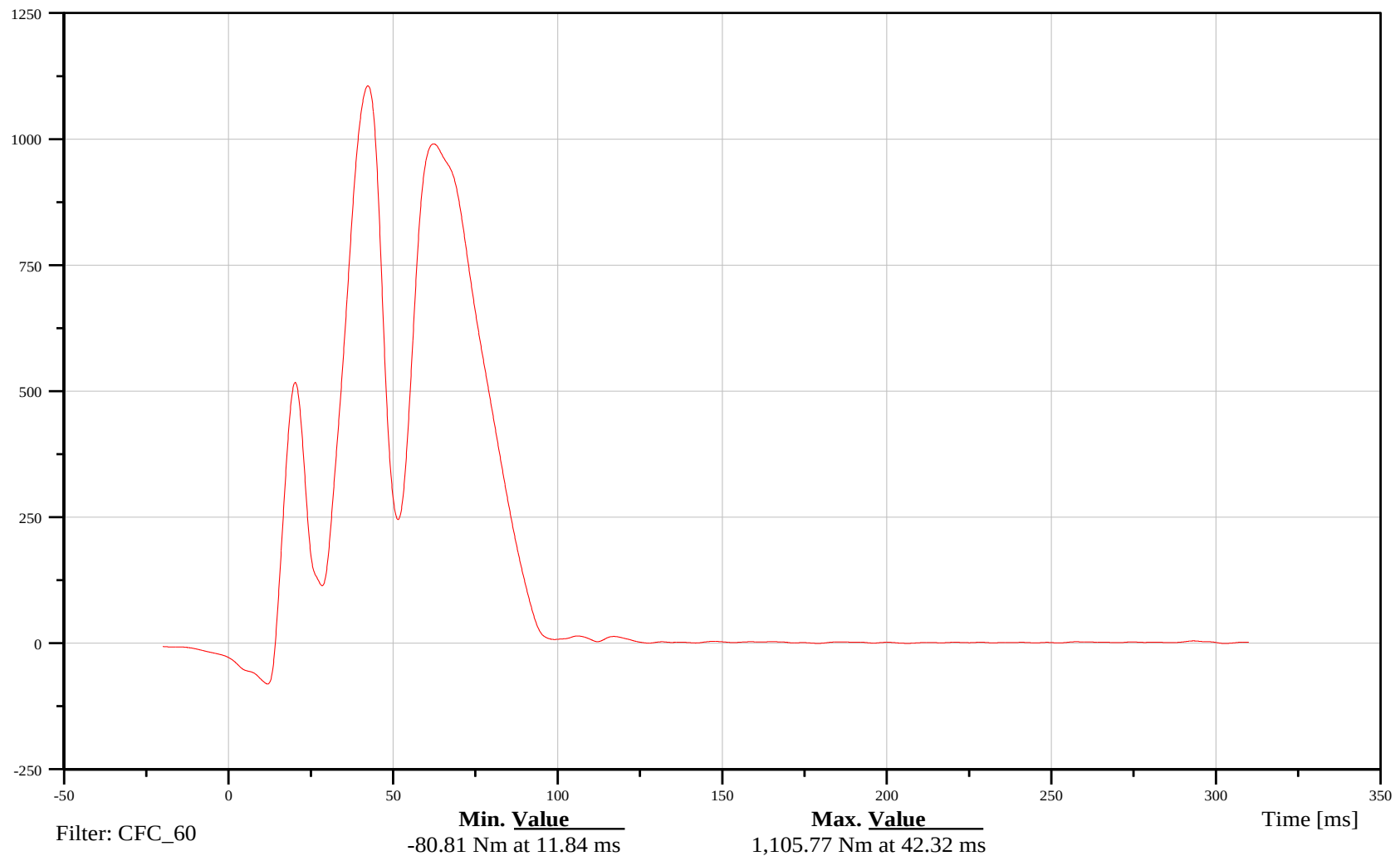
Date: 11/14/2013
Time: 15:28

BARRIER 8-13 My

Customer: VRTC
Test Number: 131114

B0FBAR081300MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

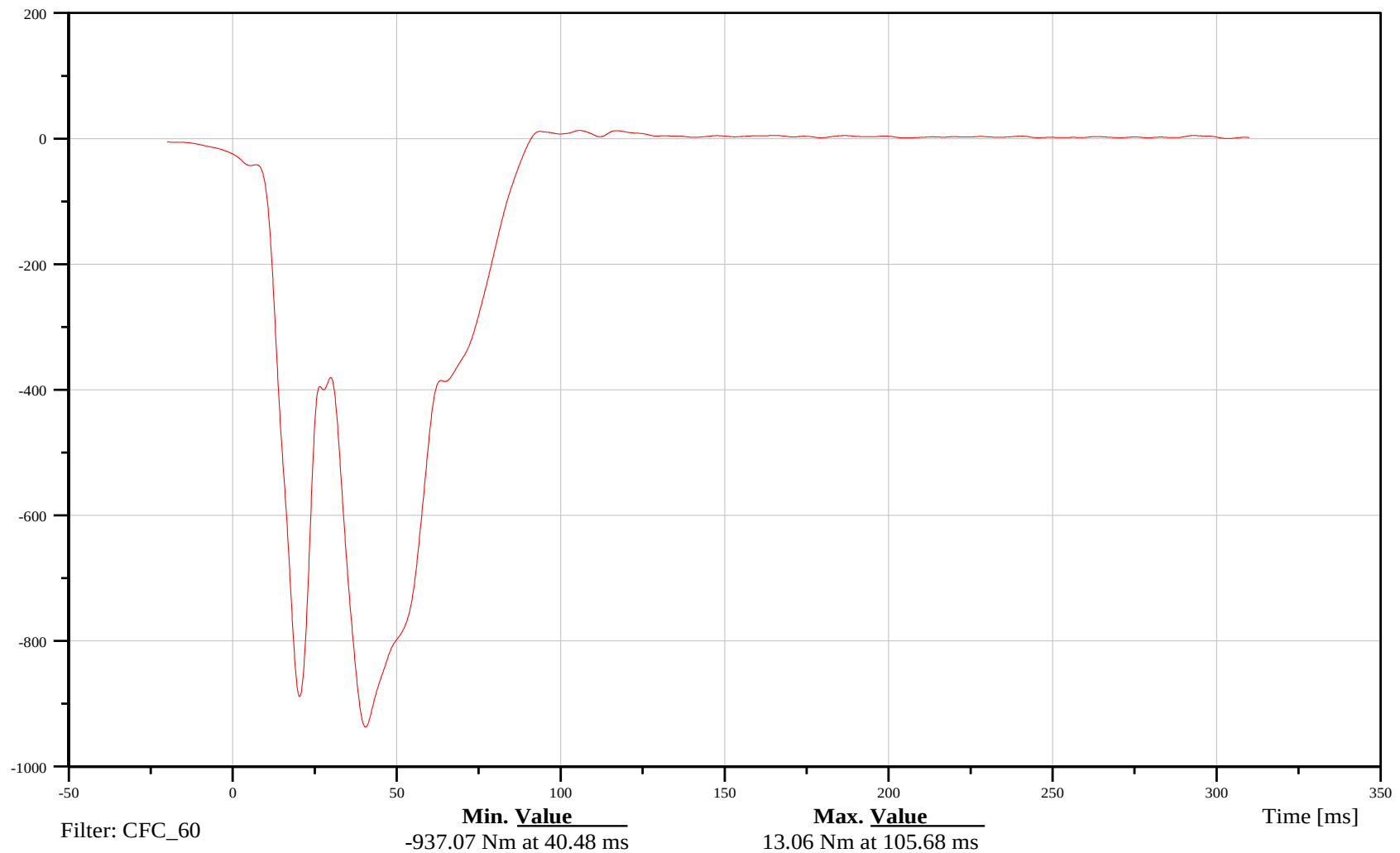
BARRIER 8-13 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR081300MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

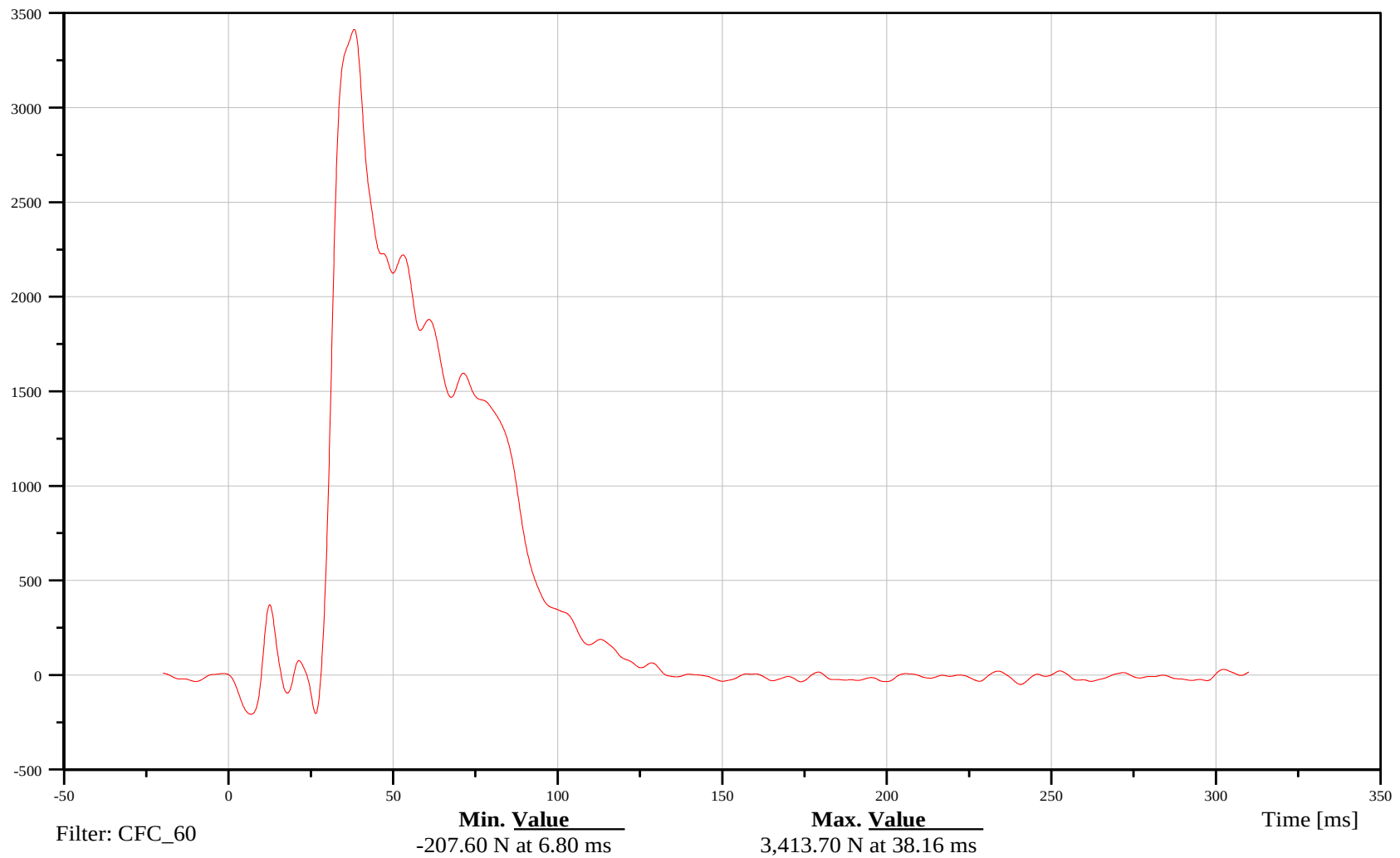
BARRIER 8-14 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR081400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

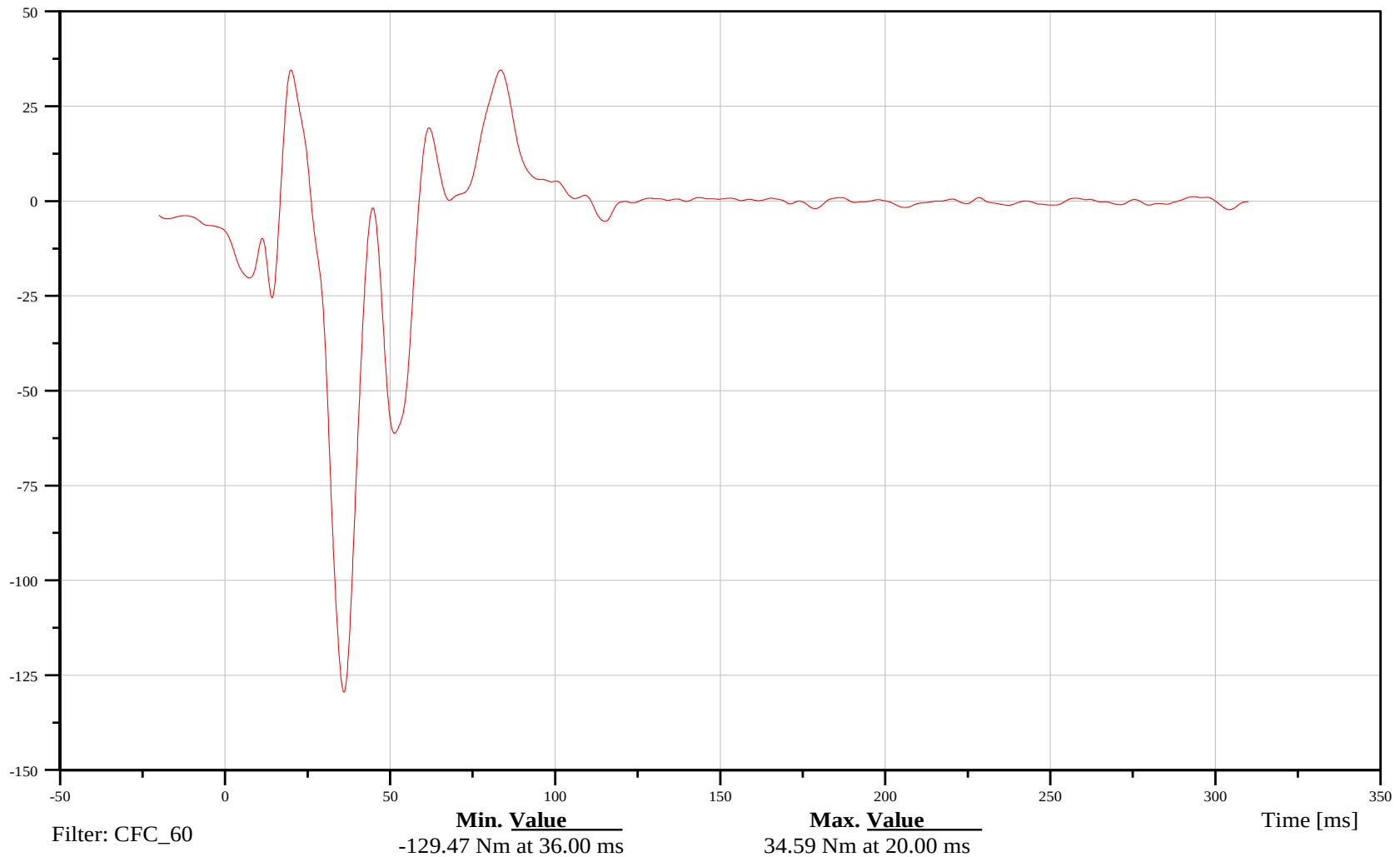
Date: 11/14/2013
Time: 15:28

BARRIER 8-14 My

Customer: VRTC
Test Number: 131114

B0FBAR081400MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

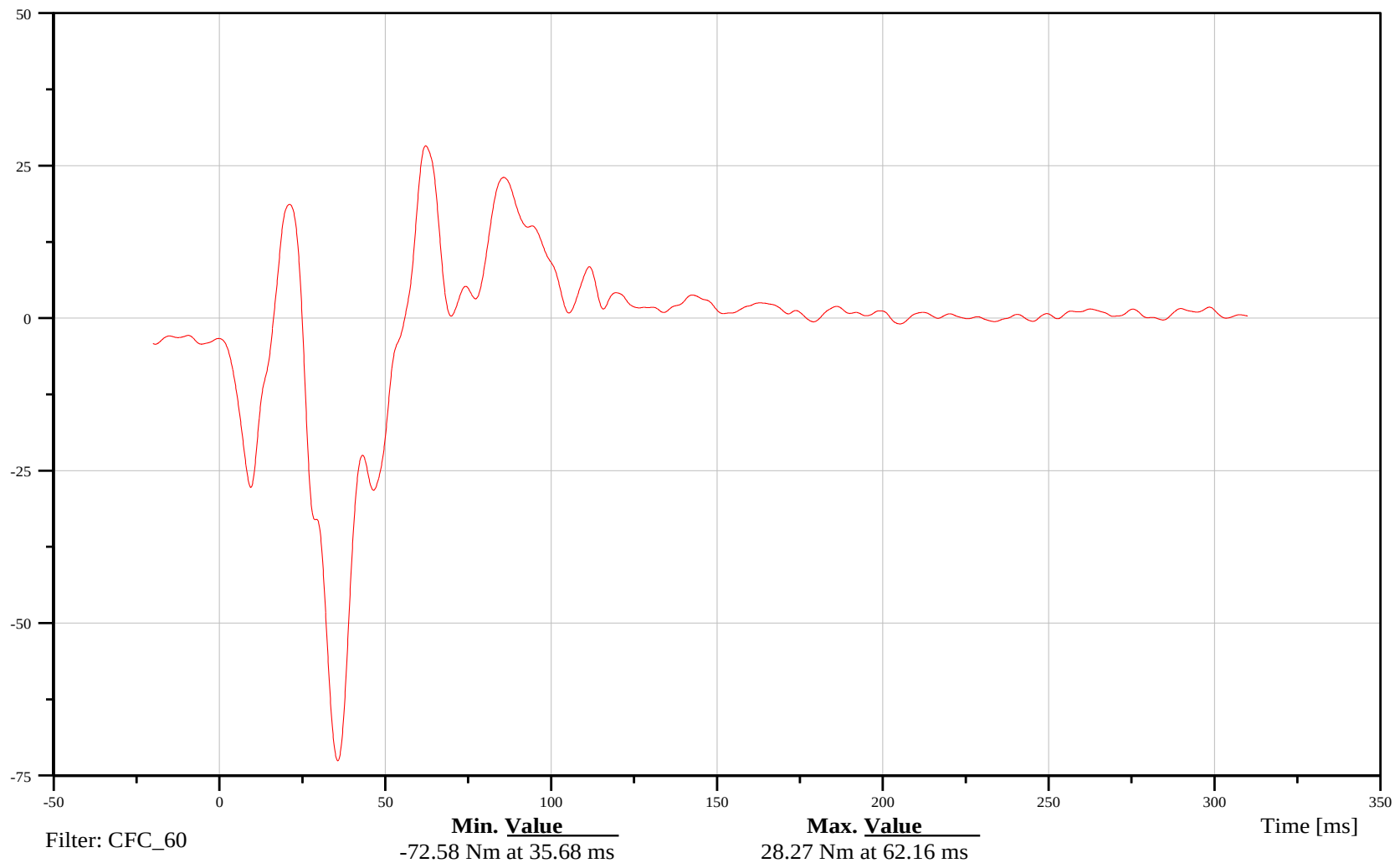
Date: 11/14/2013
Time: 15:28

BARRIER 8-14 Mz

Customer: VRTC
Test Number: 131114

B0FBAR081400MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

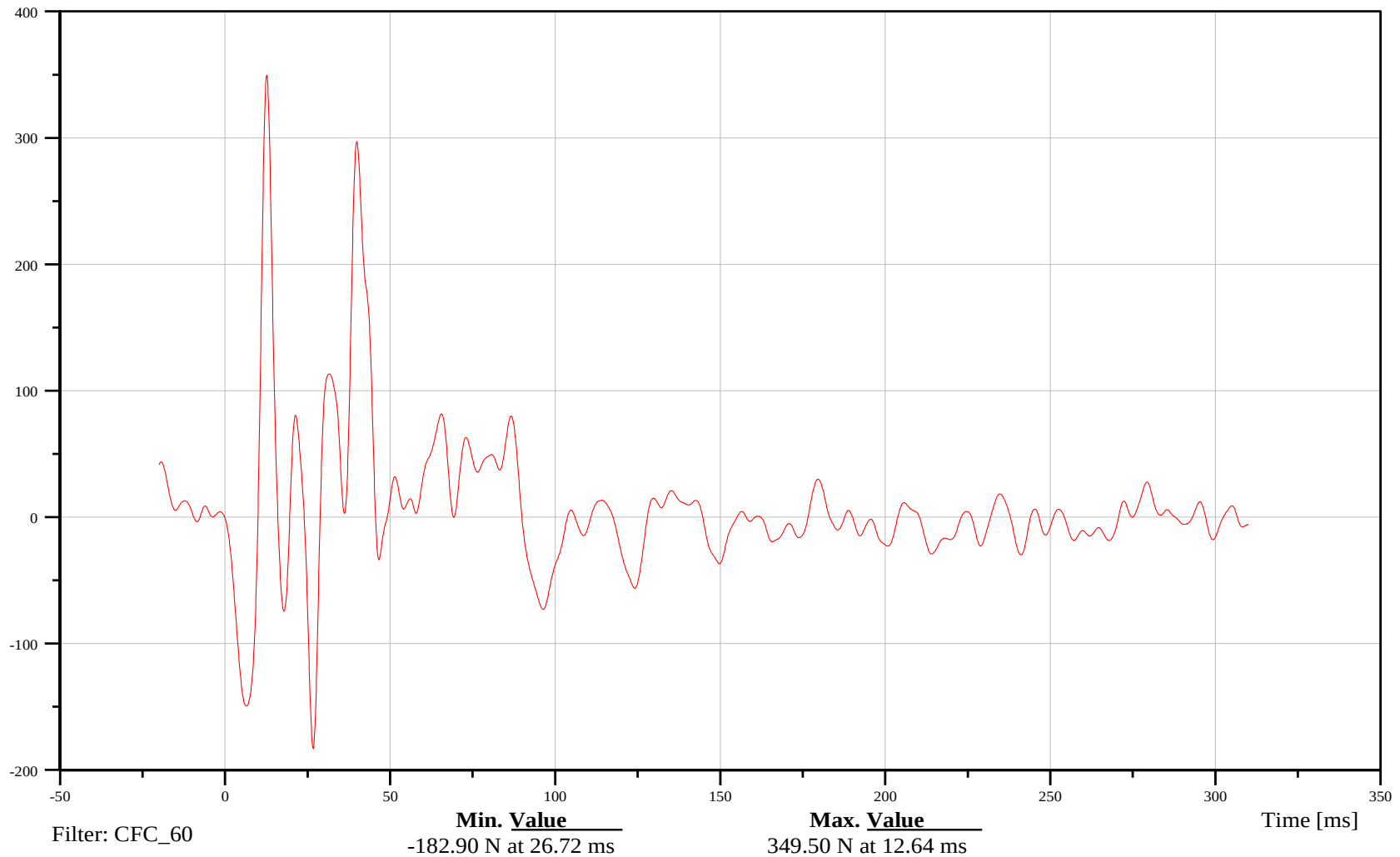
BARRIER 8-15 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR081500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

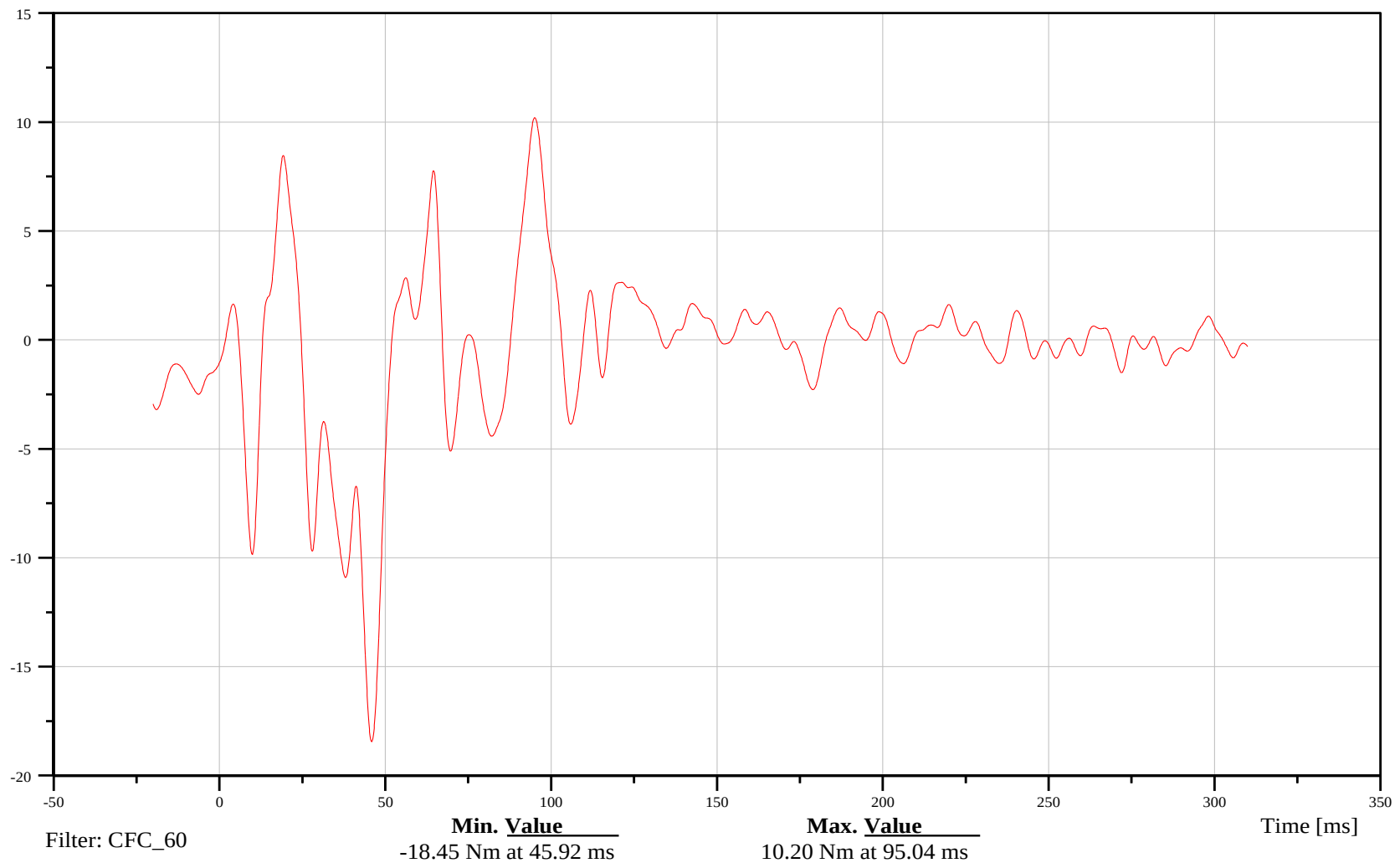
Date: 11/14/2013
Time: 15:28

BARRIER 8-15 My

Customer: VRTC
Test Number: 131114

B0FBAR081500MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

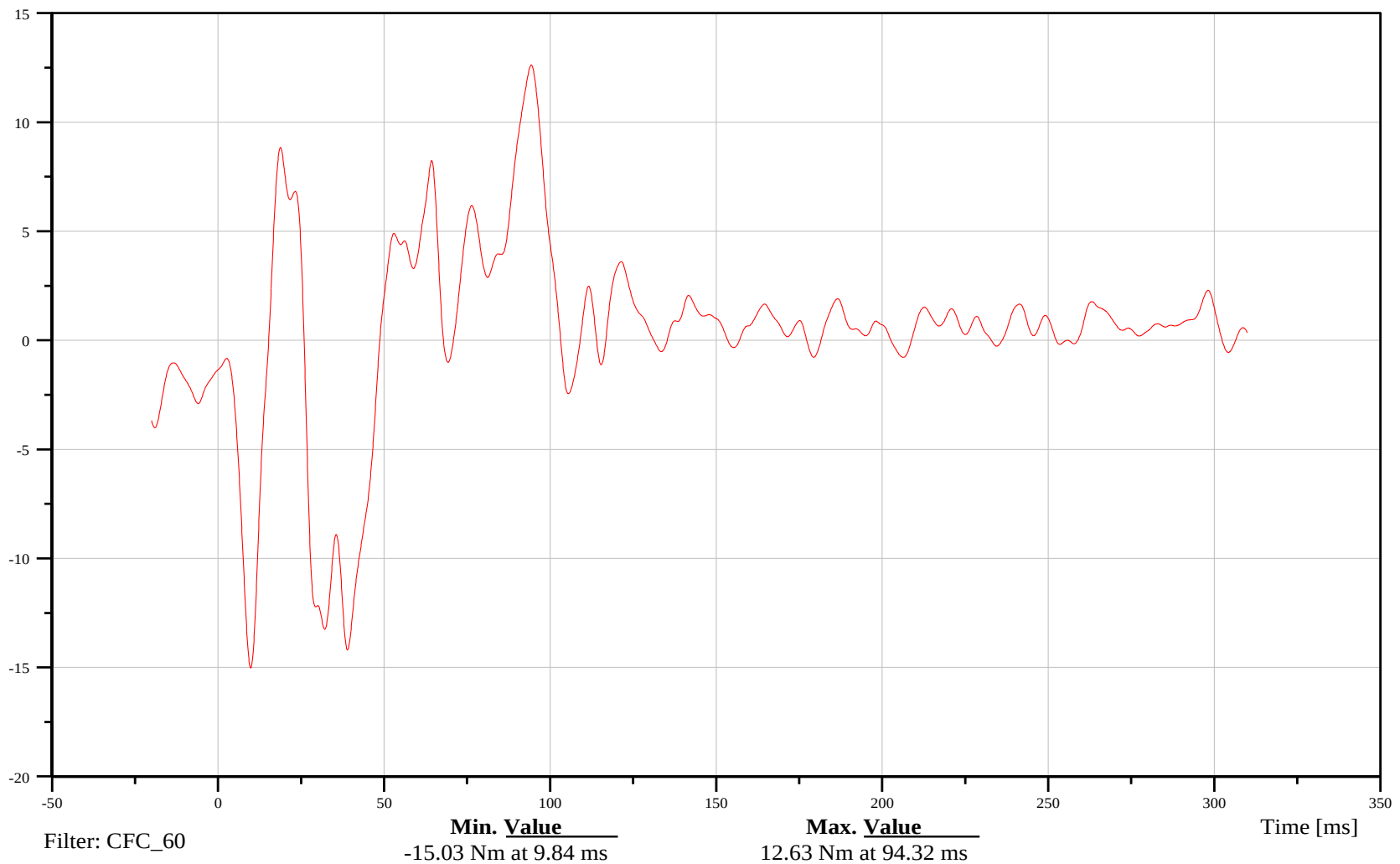
Date: 11/14/2013
Time: 15:28

BARRIER 8-15 Mz

Customer: VRTC
Test Number: 131114

B0FBAR081500MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

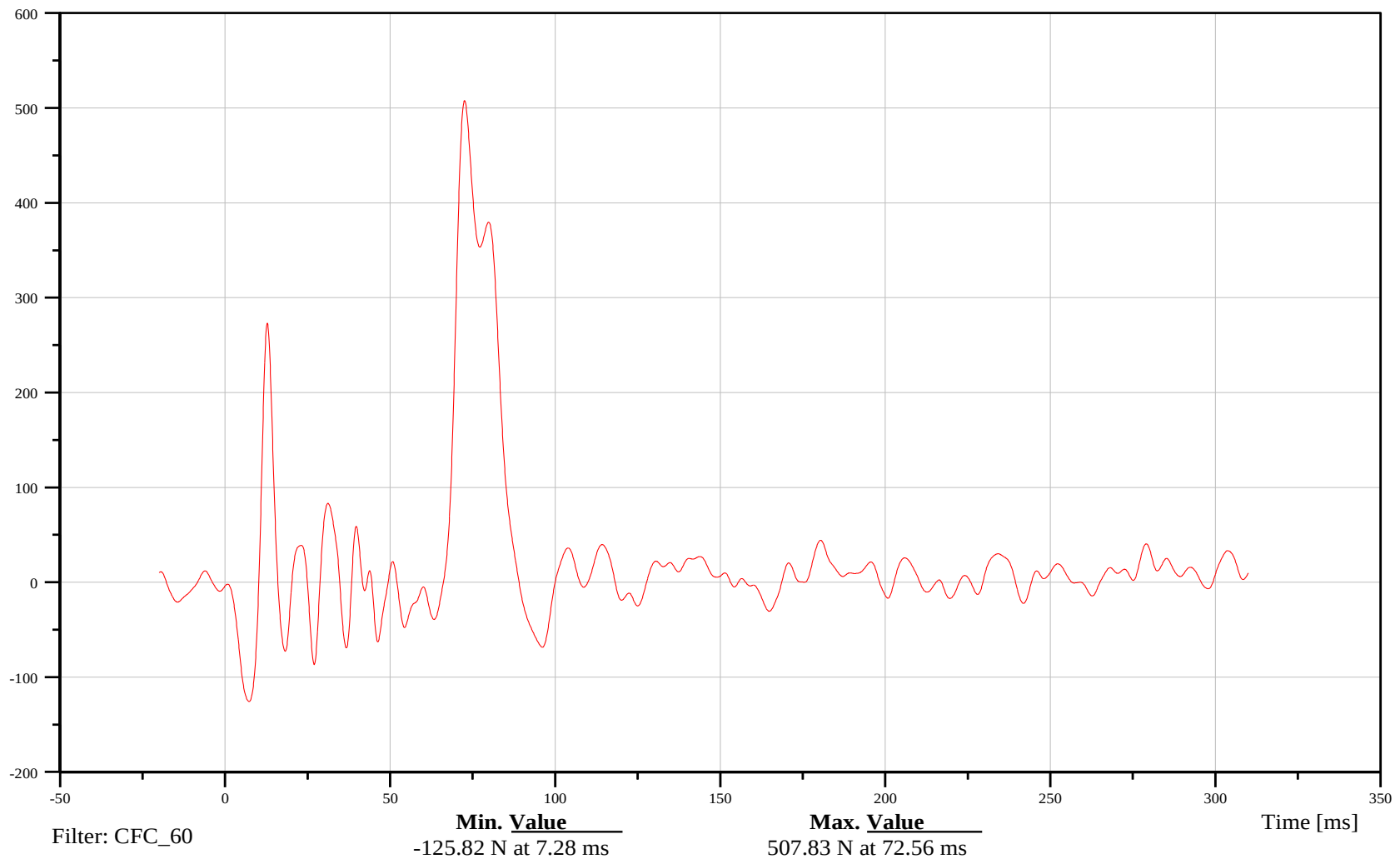
BARRIER 8-16 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR081600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

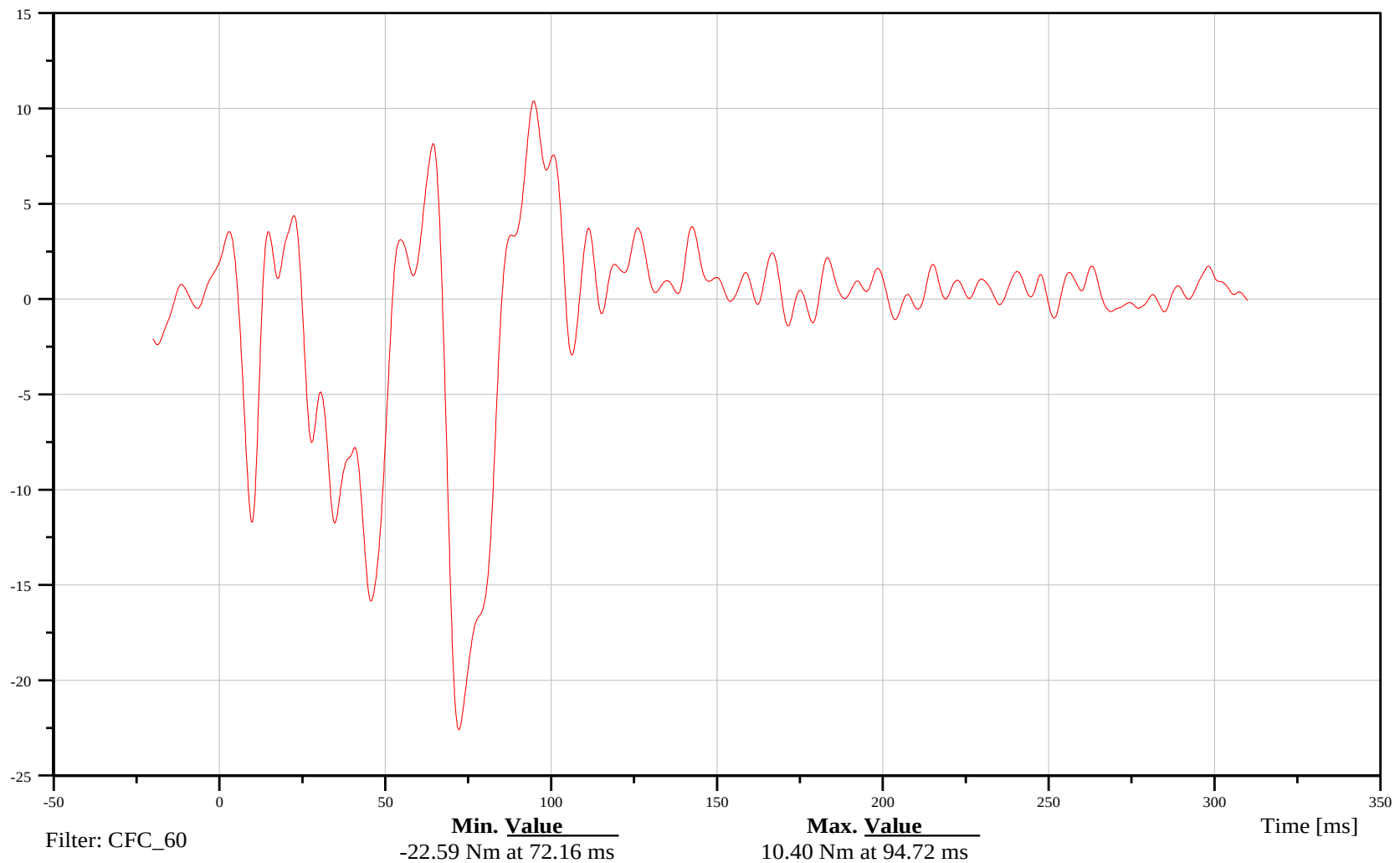
Date: 11/14/2013
Time: 15:28

BARRIER 8-16 My

Customer: VRTC
Test Number: 131114

B0FBAR081600MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

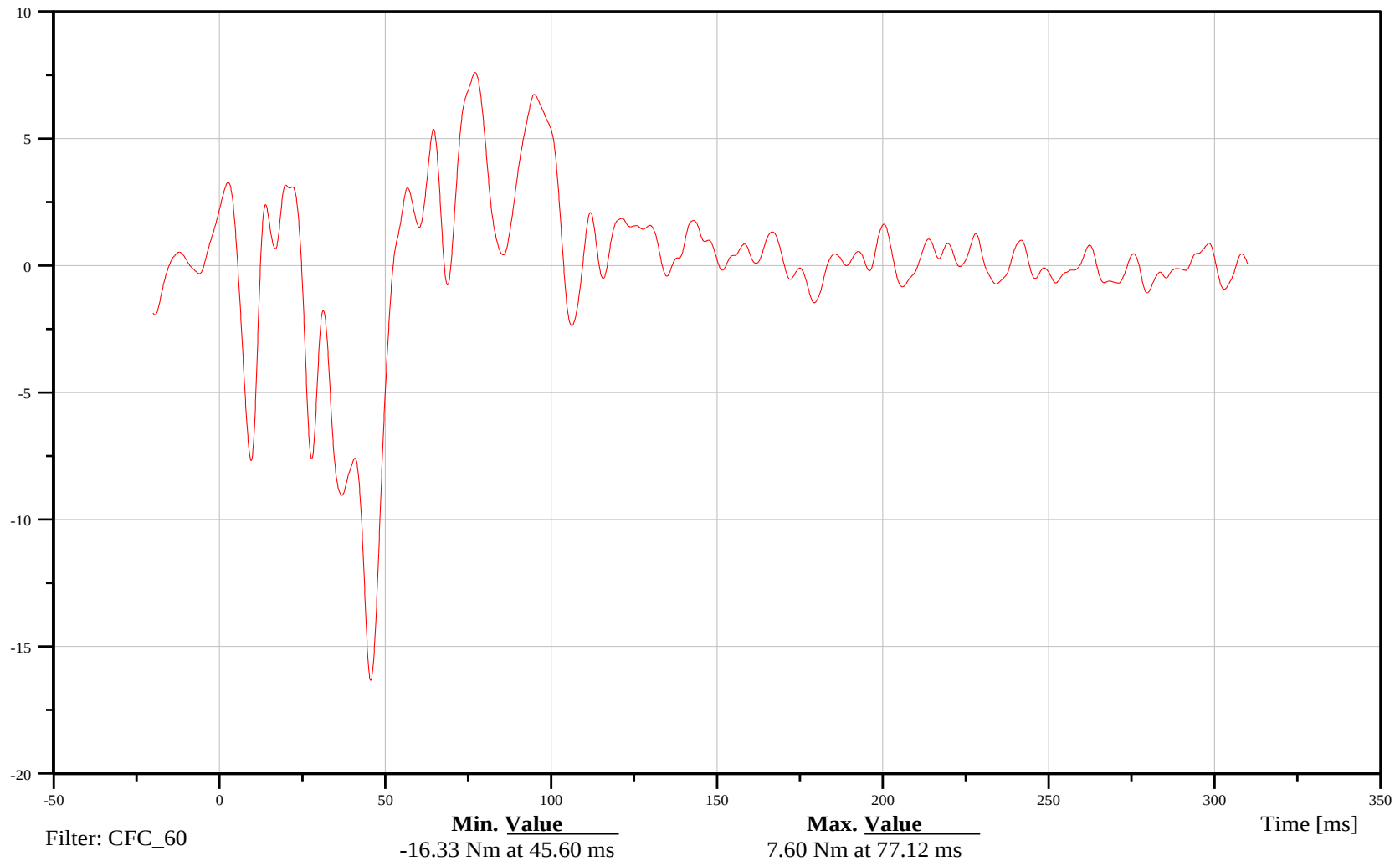
BARRIER 8-16 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR081600MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

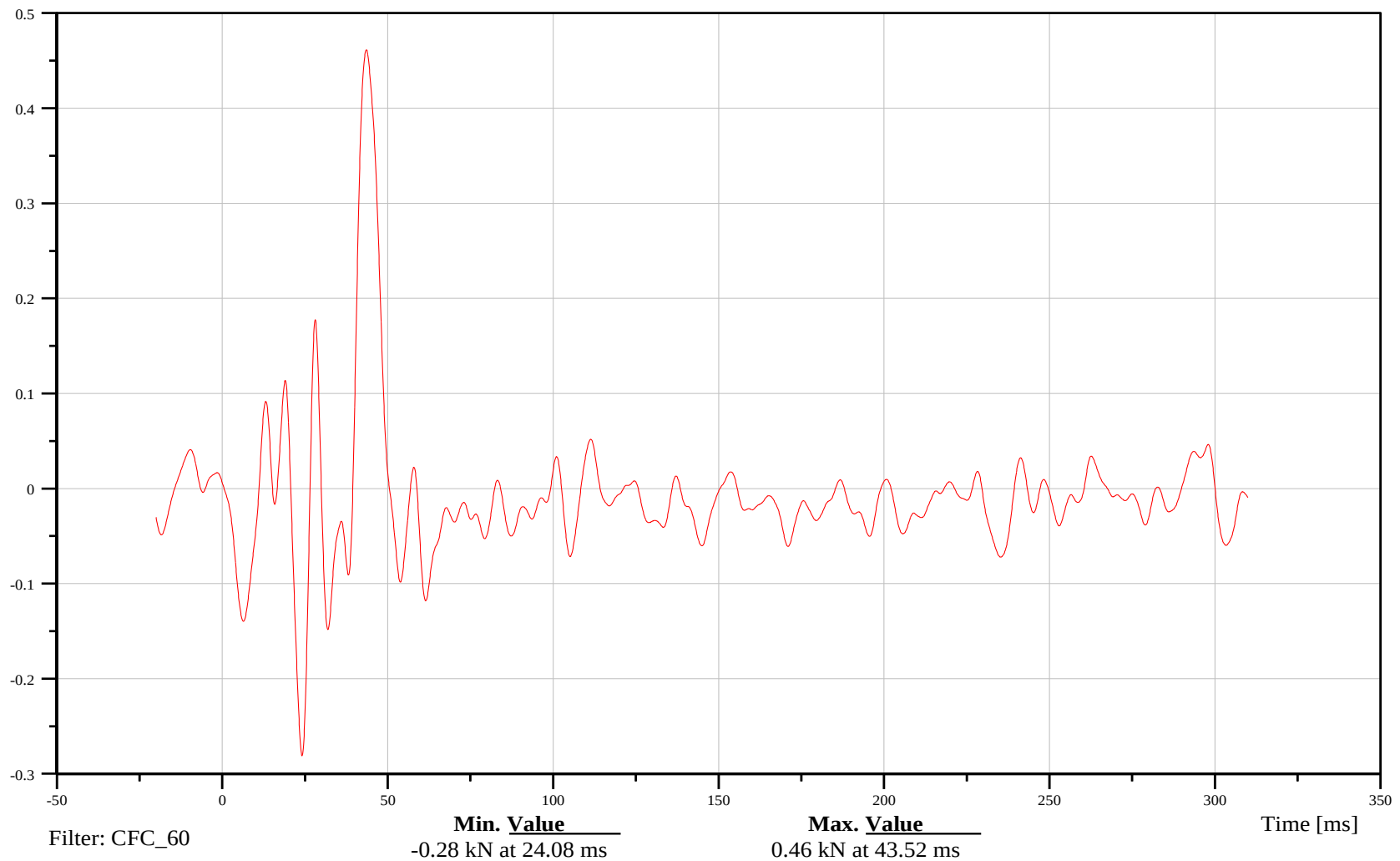
Date: 11/14/2013
Time: 15:28

BARRIER 5-1

Customer: VRTC
Test Number: 131114

B0FBAR050100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

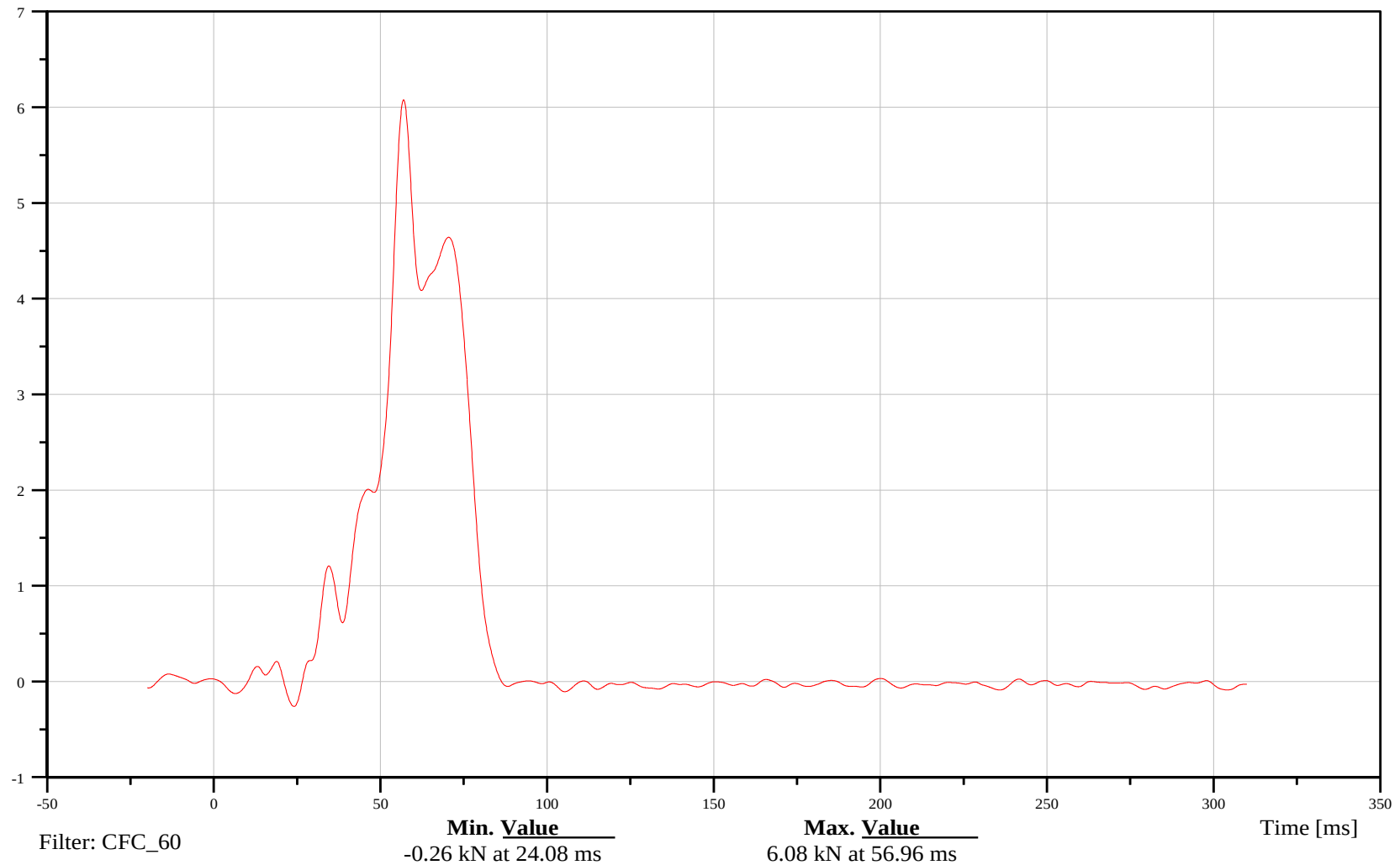
Date: 11/14/2013
Time: 15:28

BARRIER 5-2

Customer: VRTC
Test Number: 131114

B0FBAR050200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

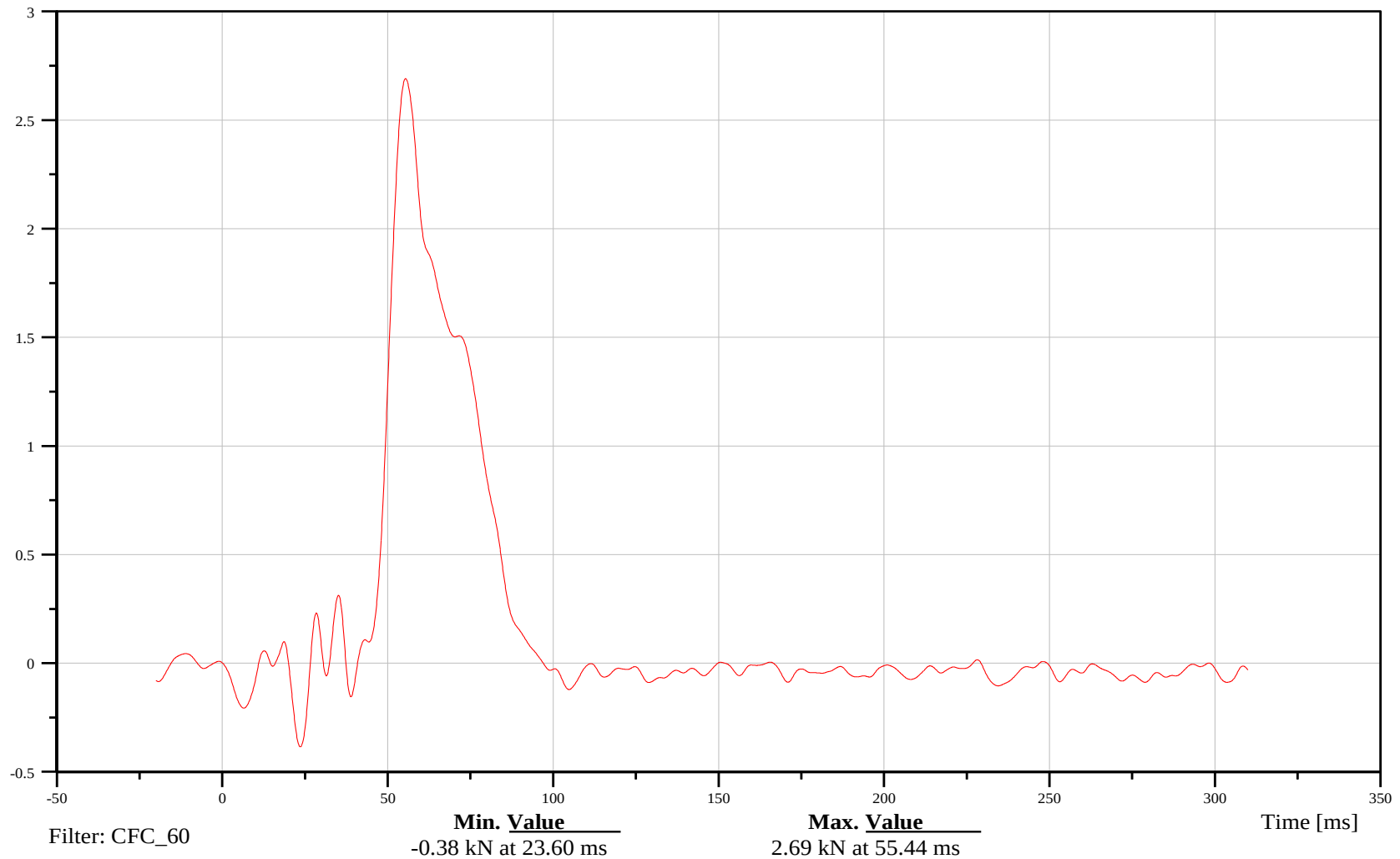
Date: 11/14/2013
Time: 15:28

BARRIER 5-3

Customer: VRTC
Test Number: 131114

B0FBAR050300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

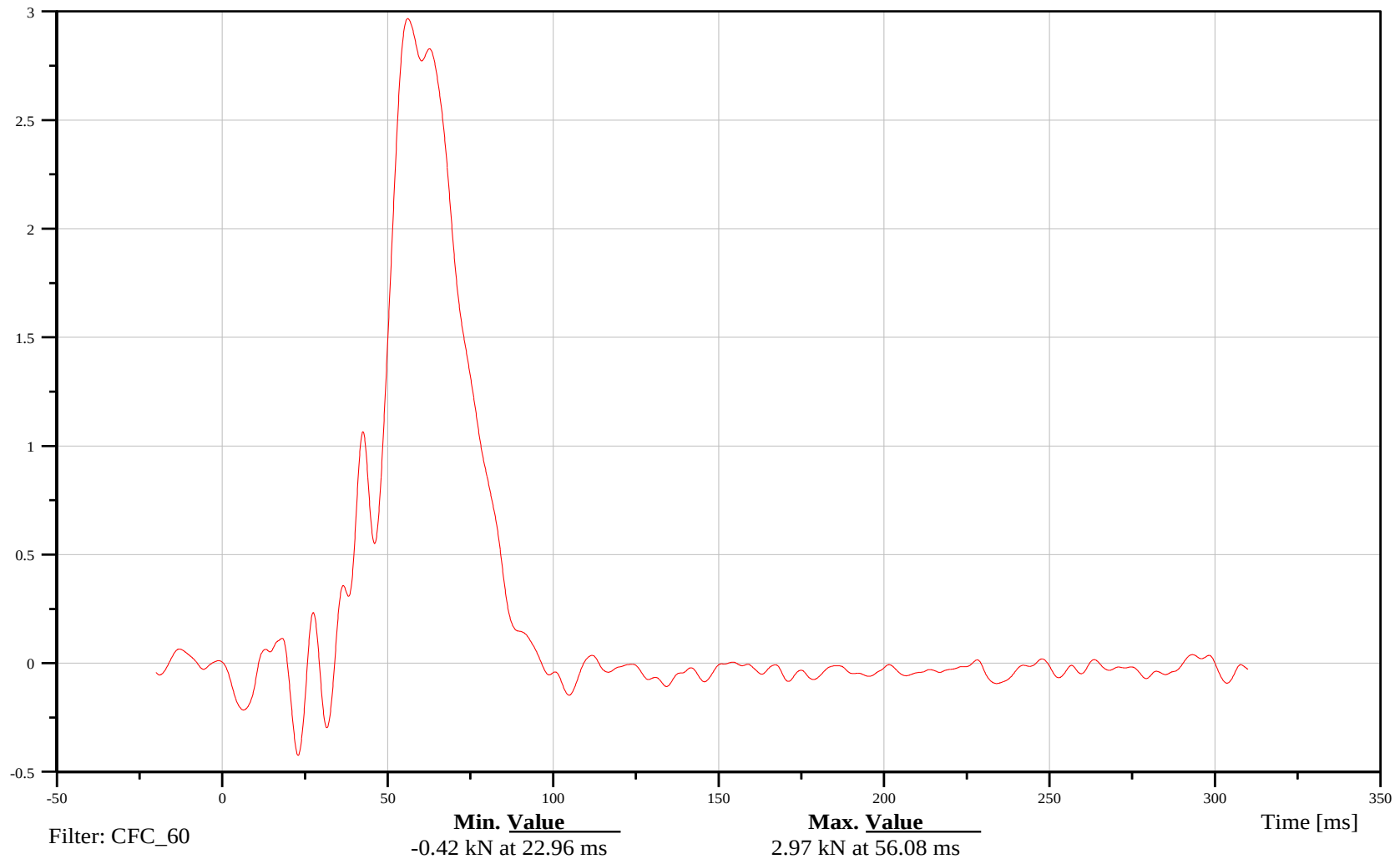
Date: 11/14/2013
Time: 15:28

BARRIER 5-4

Customer: VRTC
Test Number: 131114

B0FBAR050400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

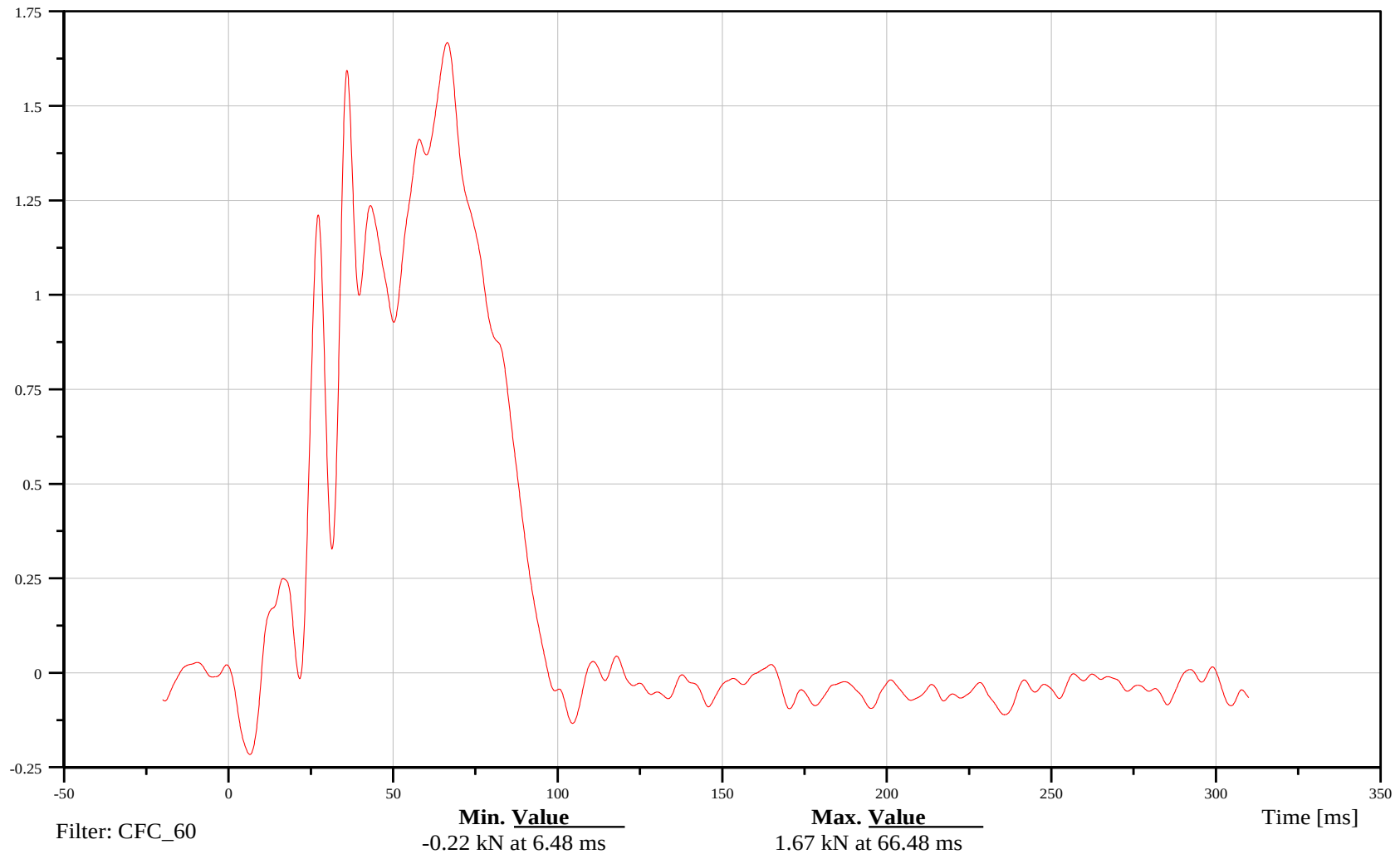
Date: 11/14/2013
Time: 15:28

BARRIER 5-5

Customer: VRTC
Test Number: 131114

B0FBAR050500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

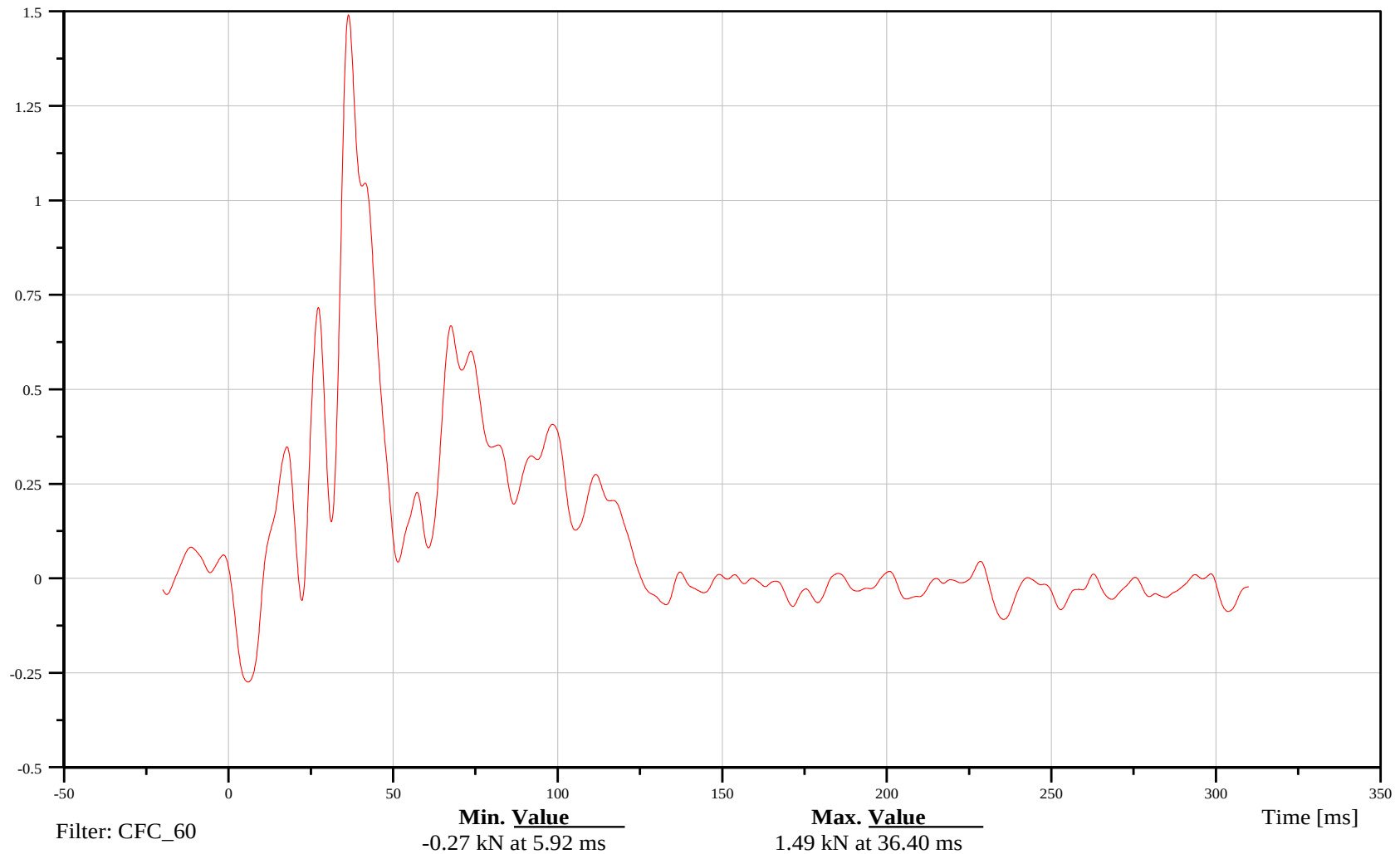
Date: 11/14/2013
Time: 15:28

BARRIER 5-6

Customer: VRTC
Test Number: 131114

B0FBAR050600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

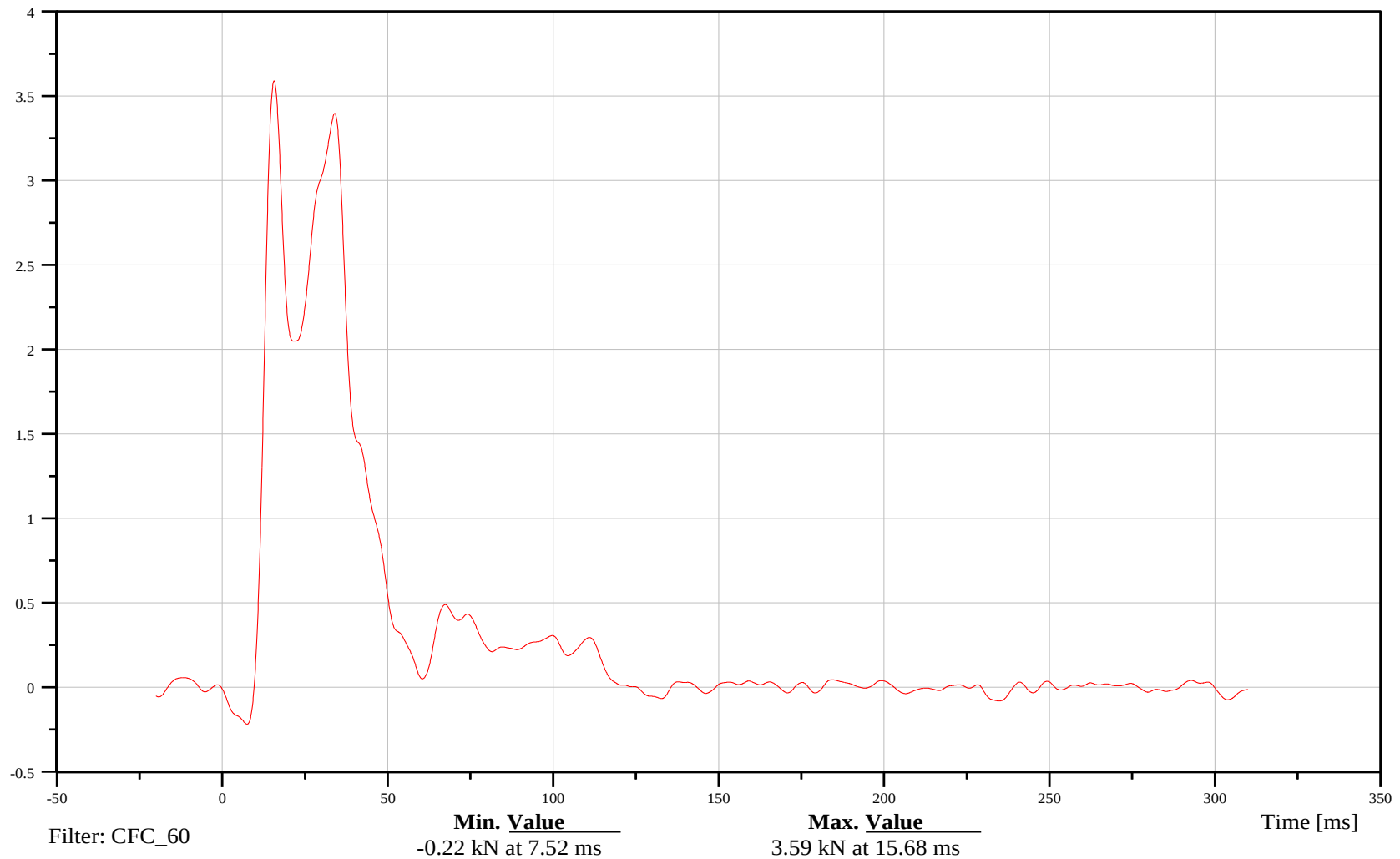
Date: 11/14/2013
Time: 15:28

BARRIER 5-7

Customer: VRTC
Test Number: 131114

B0FBAR050700FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

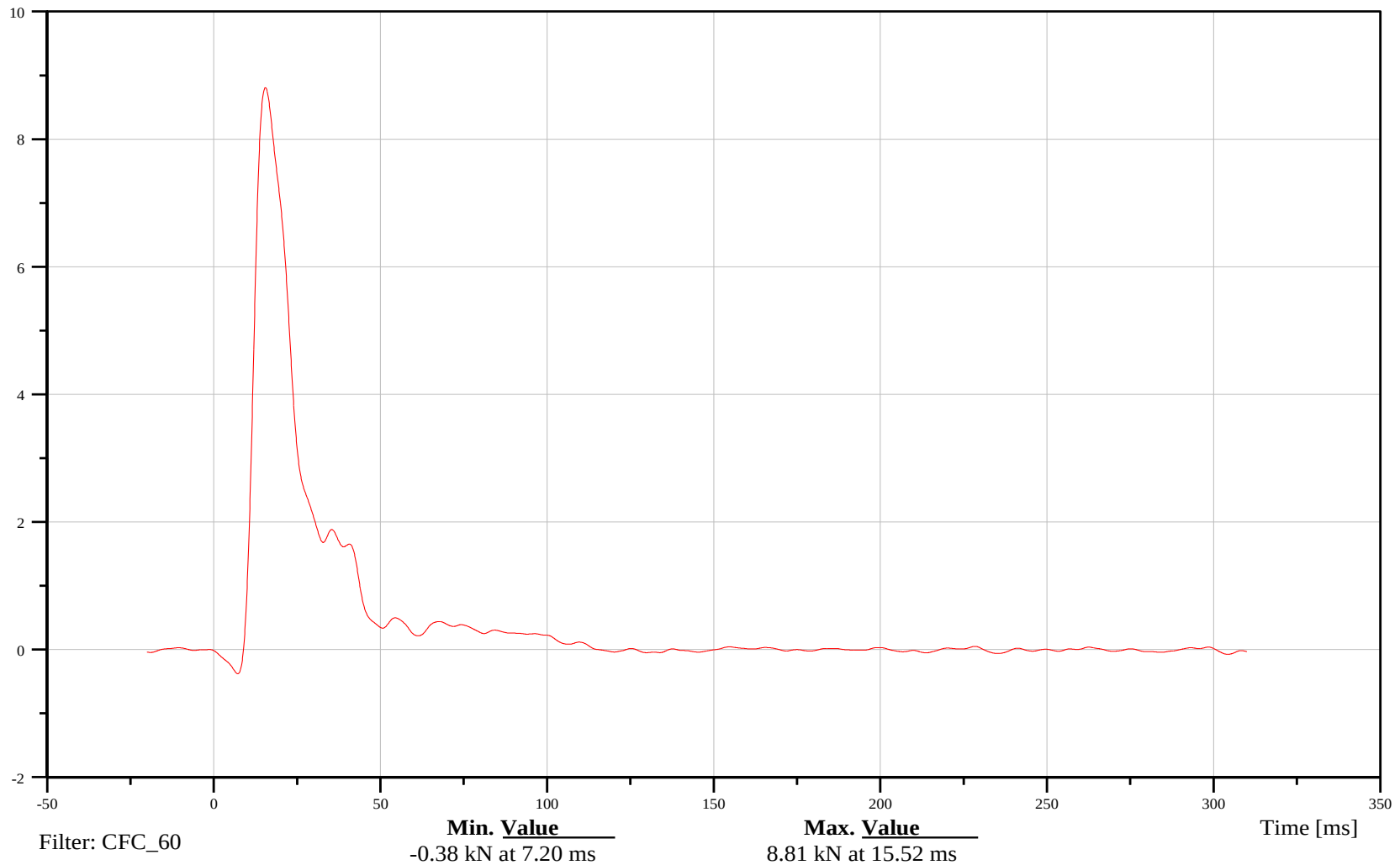
BARRIER 5-8

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR050800FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

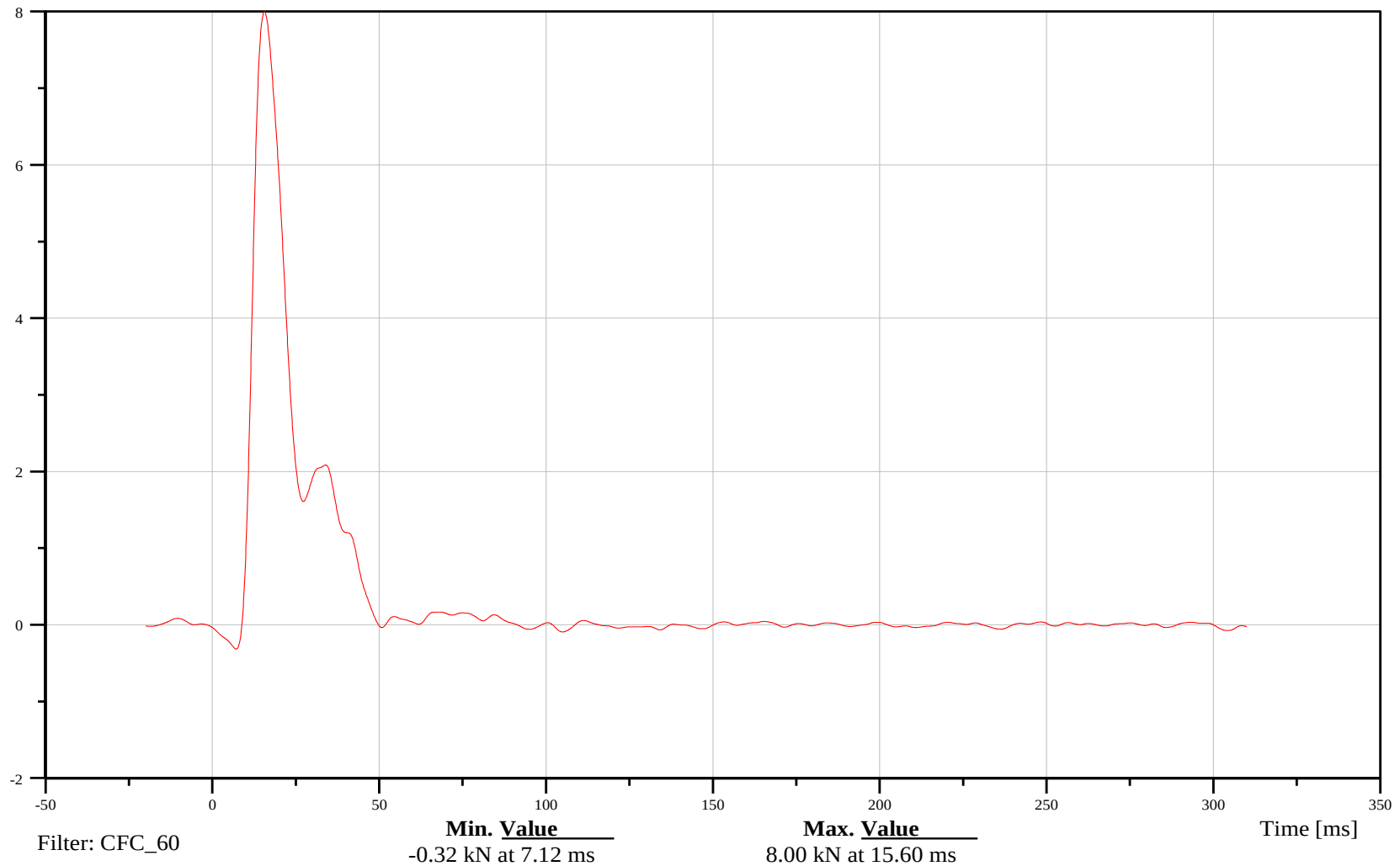
Date: 11/14/2013
Time: 15:28

BARRIER 5-9

Customer: VRTC
Test Number: 131114

B0FBAR050900FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

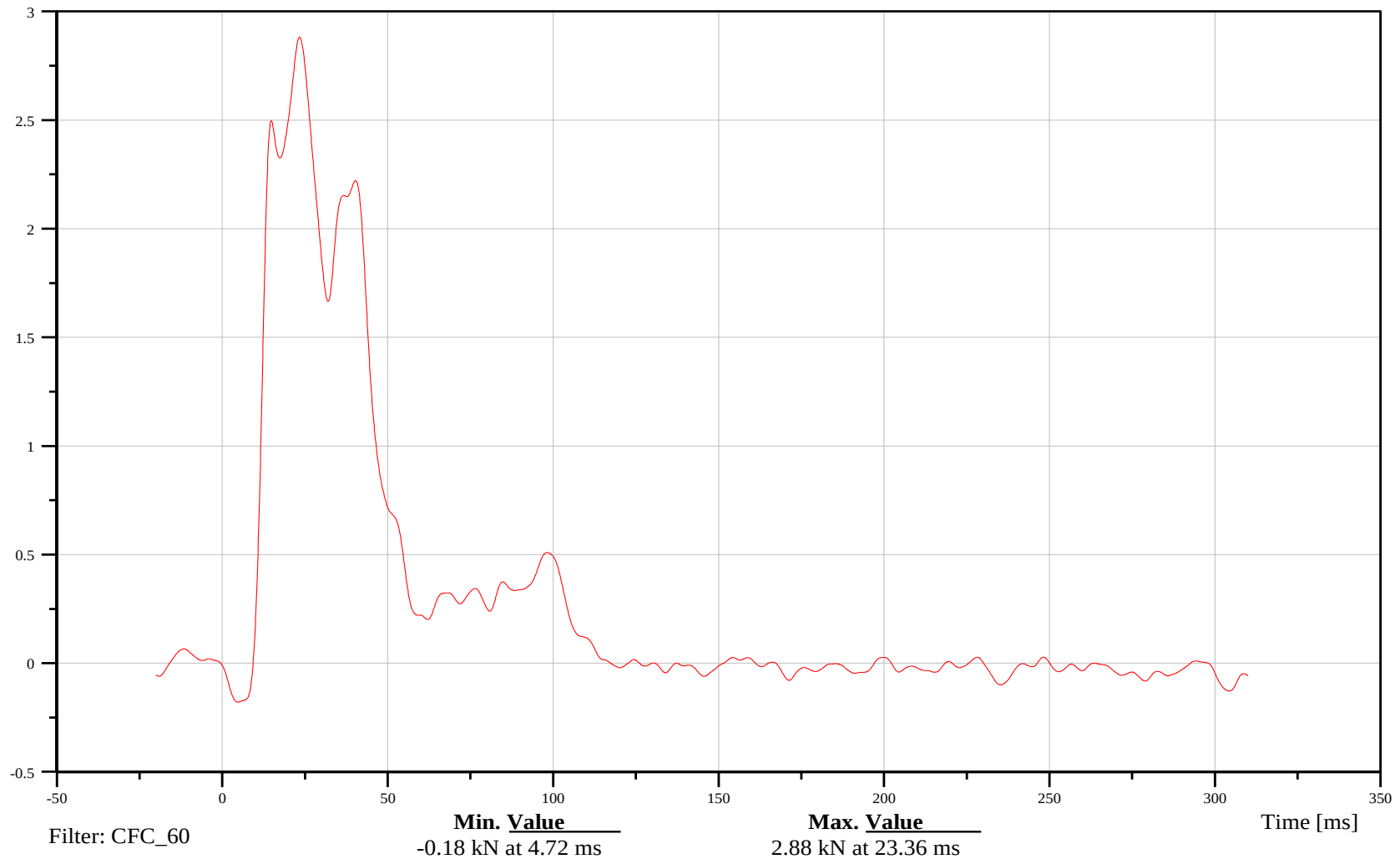
Date: 11/14/2013
Time: 15:28

BARRIER 5-10

Customer: VRTC
Test Number: 131114

B0FBAR051000FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

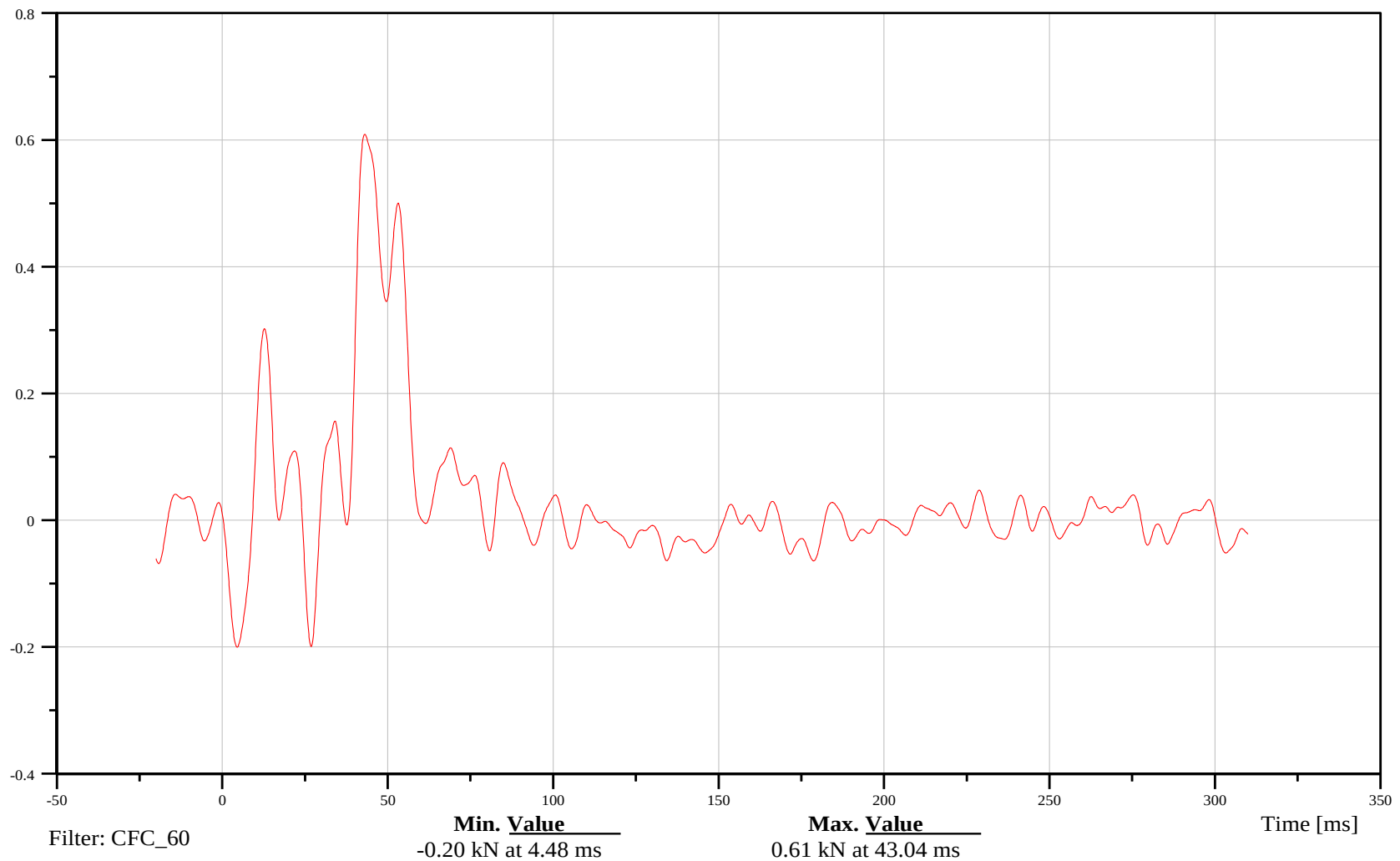
Date: 11/14/2013
Time: 15:28

BARRIER 5-11

Customer: VRTC
Test Number: 131114

B0FBAR051100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

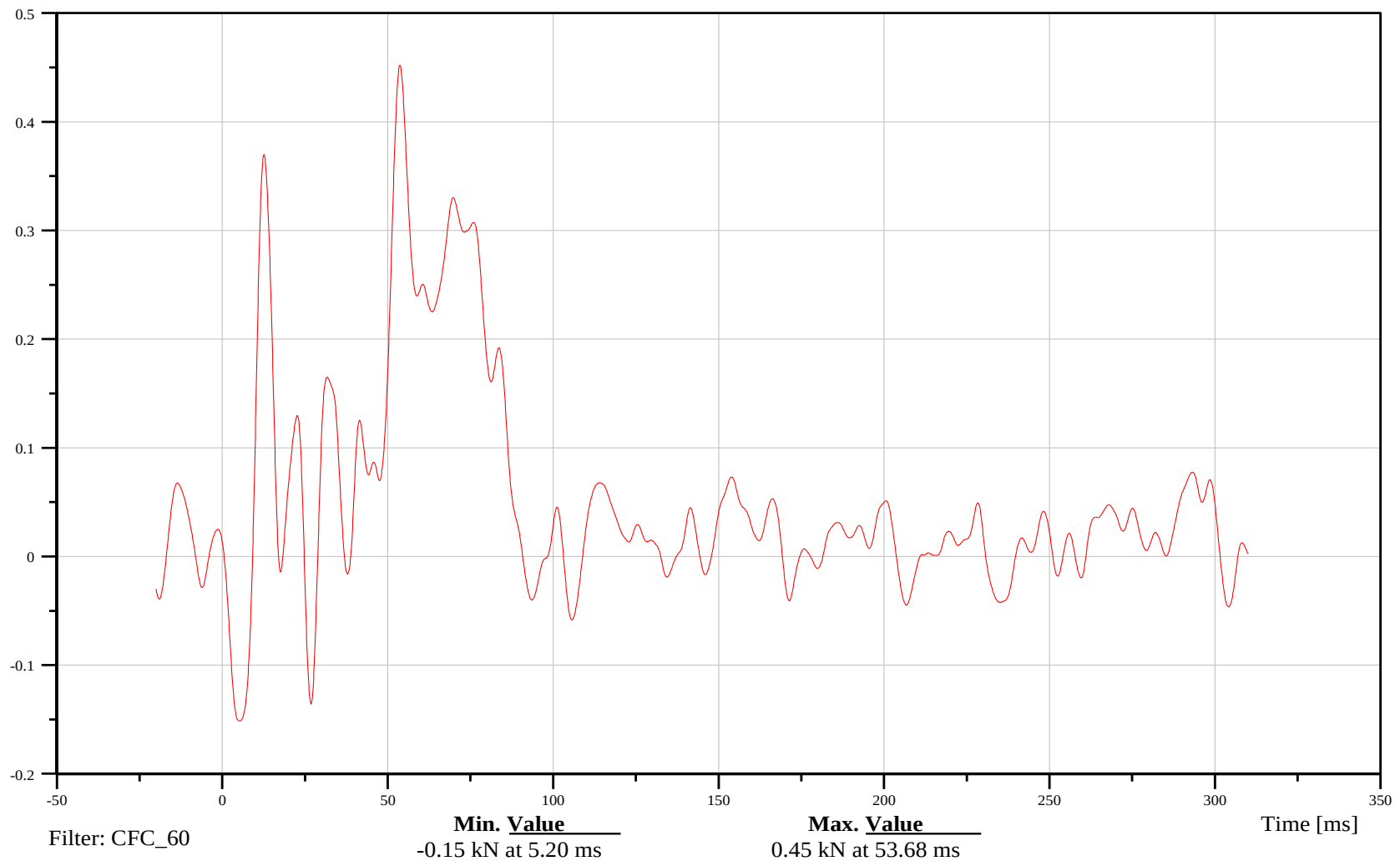
Date: 11/14/2013
Time: 15:28

BARRIER 5-12

Customer: VRTC
Test Number: 131114

B0FBAR051200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

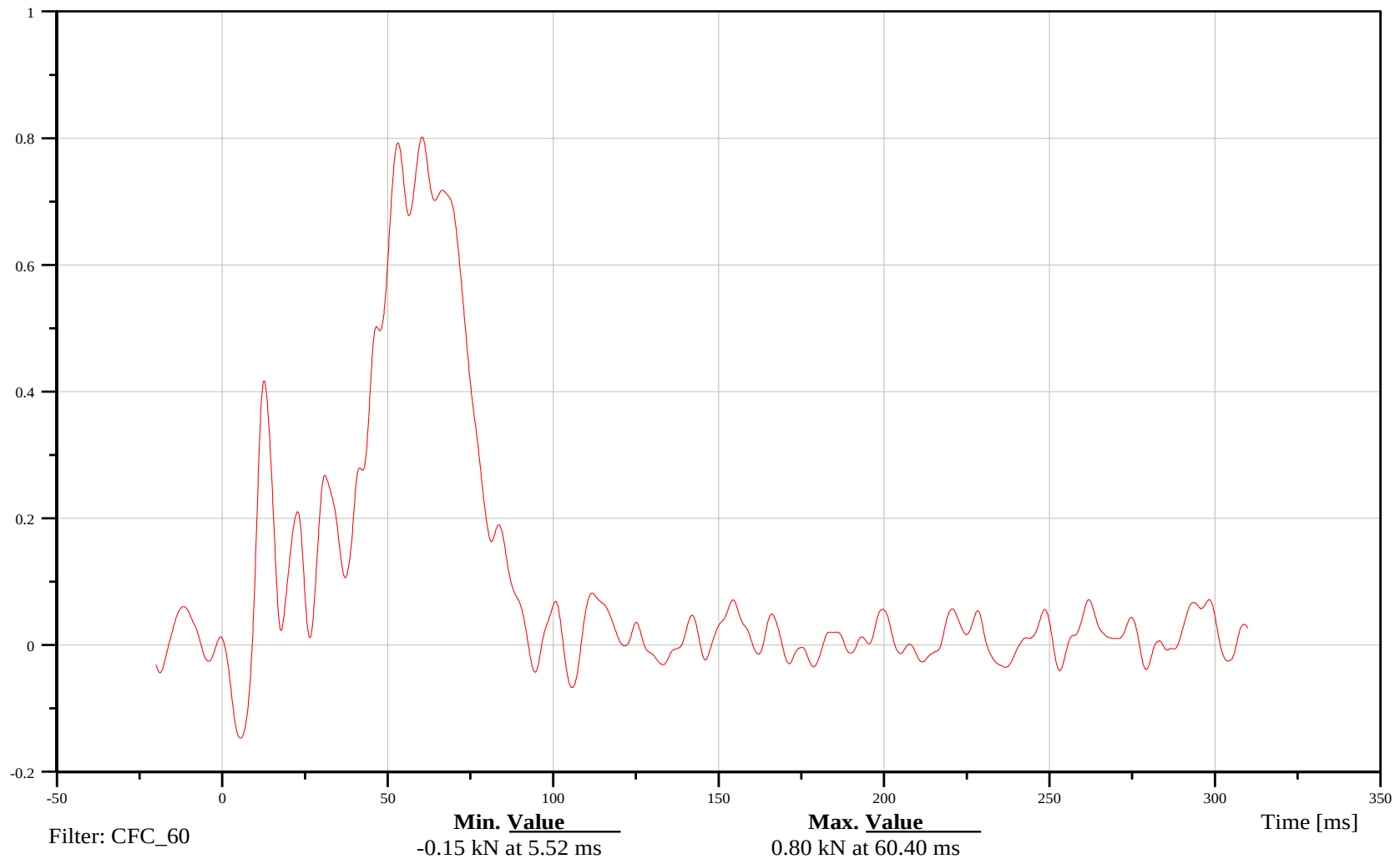
Date: 11/14/2013
Time: 15:28

BARRIER 5-13

Customer: VRTC
Test Number: 131114

B0FBAR051300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

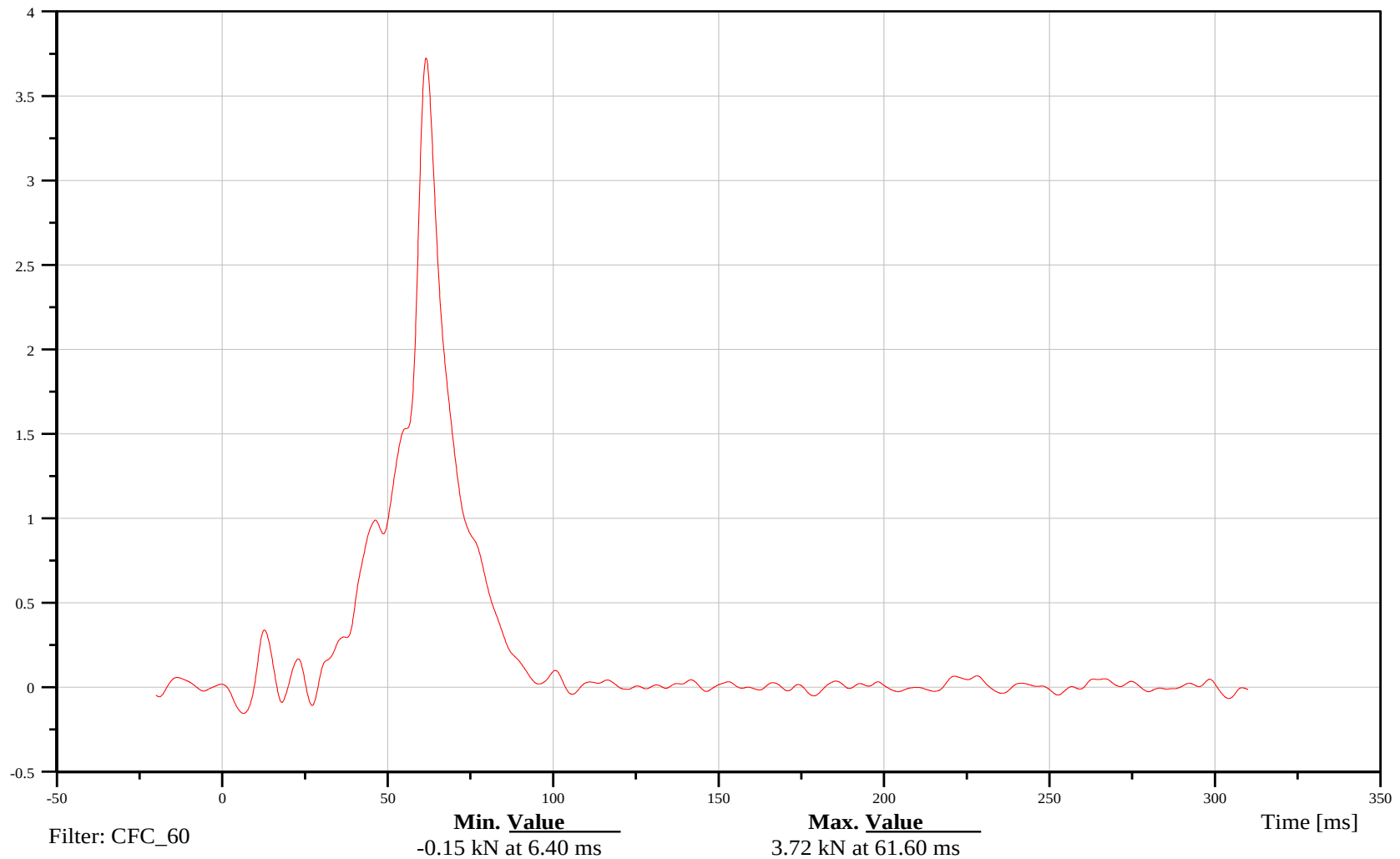
Date: 11/14/2013
Time: 15:28

BARRIER 5-14

Customer: VRTC
Test Number: 131114

B0FBAR051400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

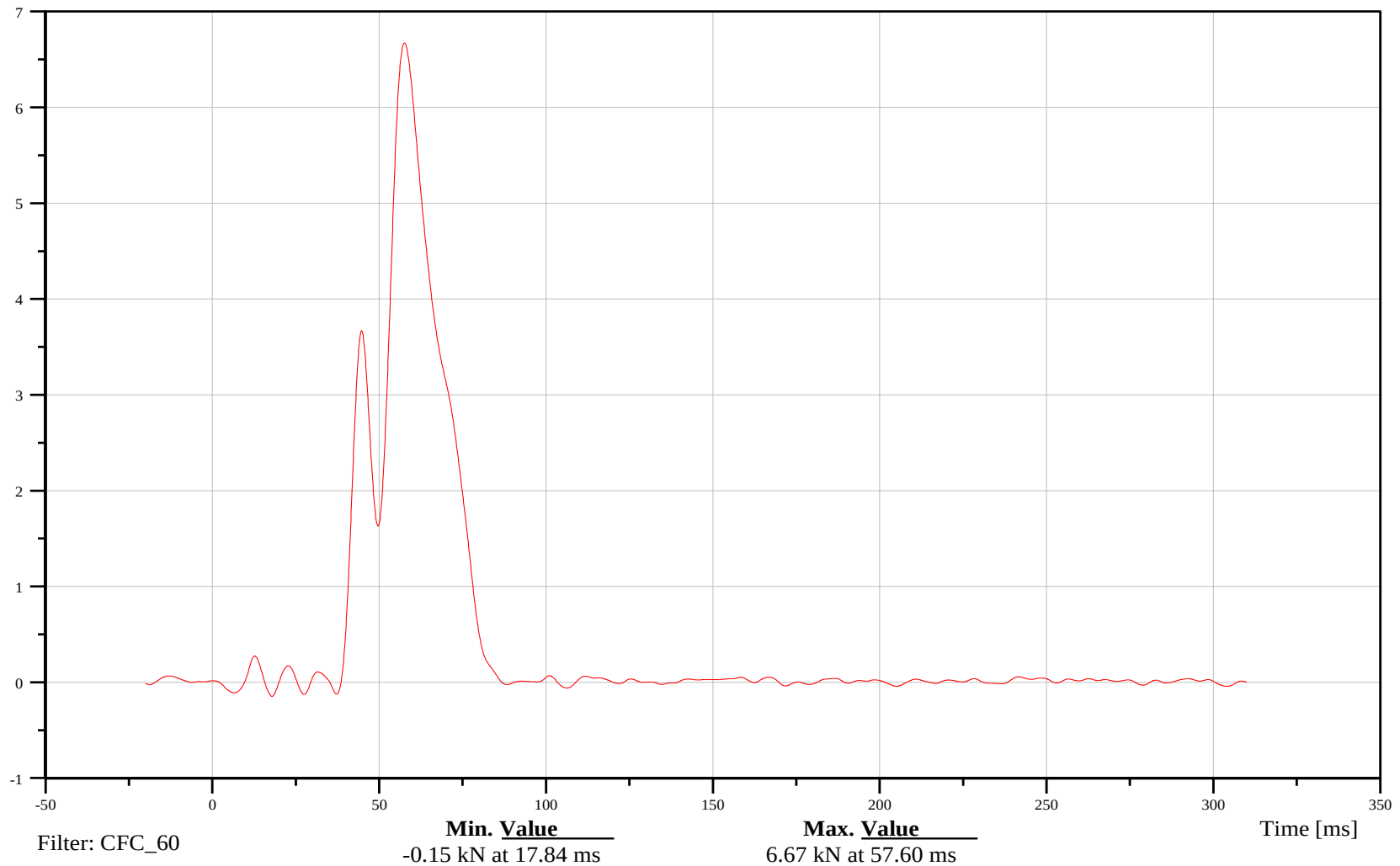
Date: 11/14/2013
Time: 15:28

BARRIER 5-15

Customer: VRTC
Test Number: 131114

B0FBAR051500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

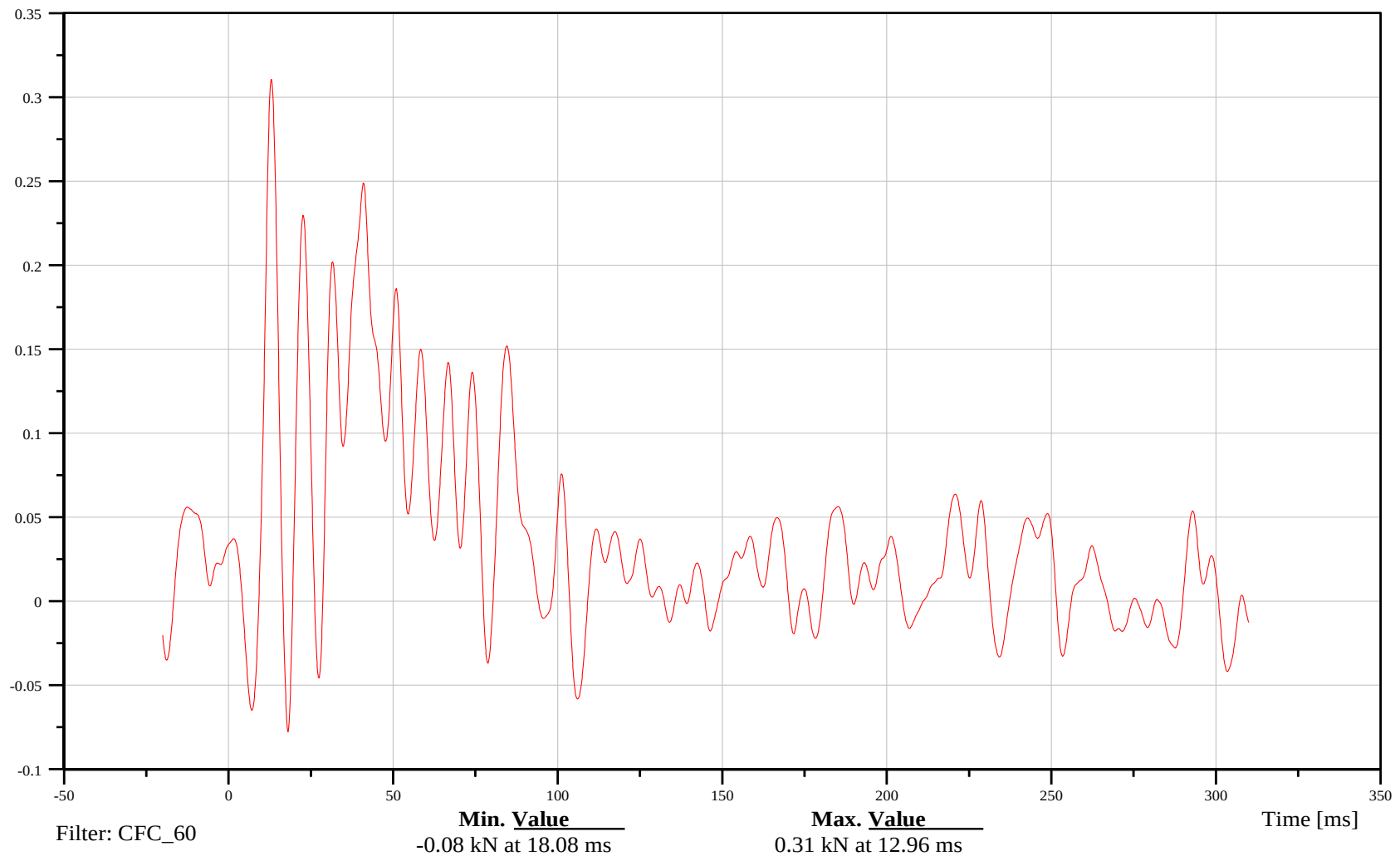
Date: 11/14/2013
Time: 15:28

BARRIER 5-16

Customer: VRTC
Test Number: 131114

B0FBAR051600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

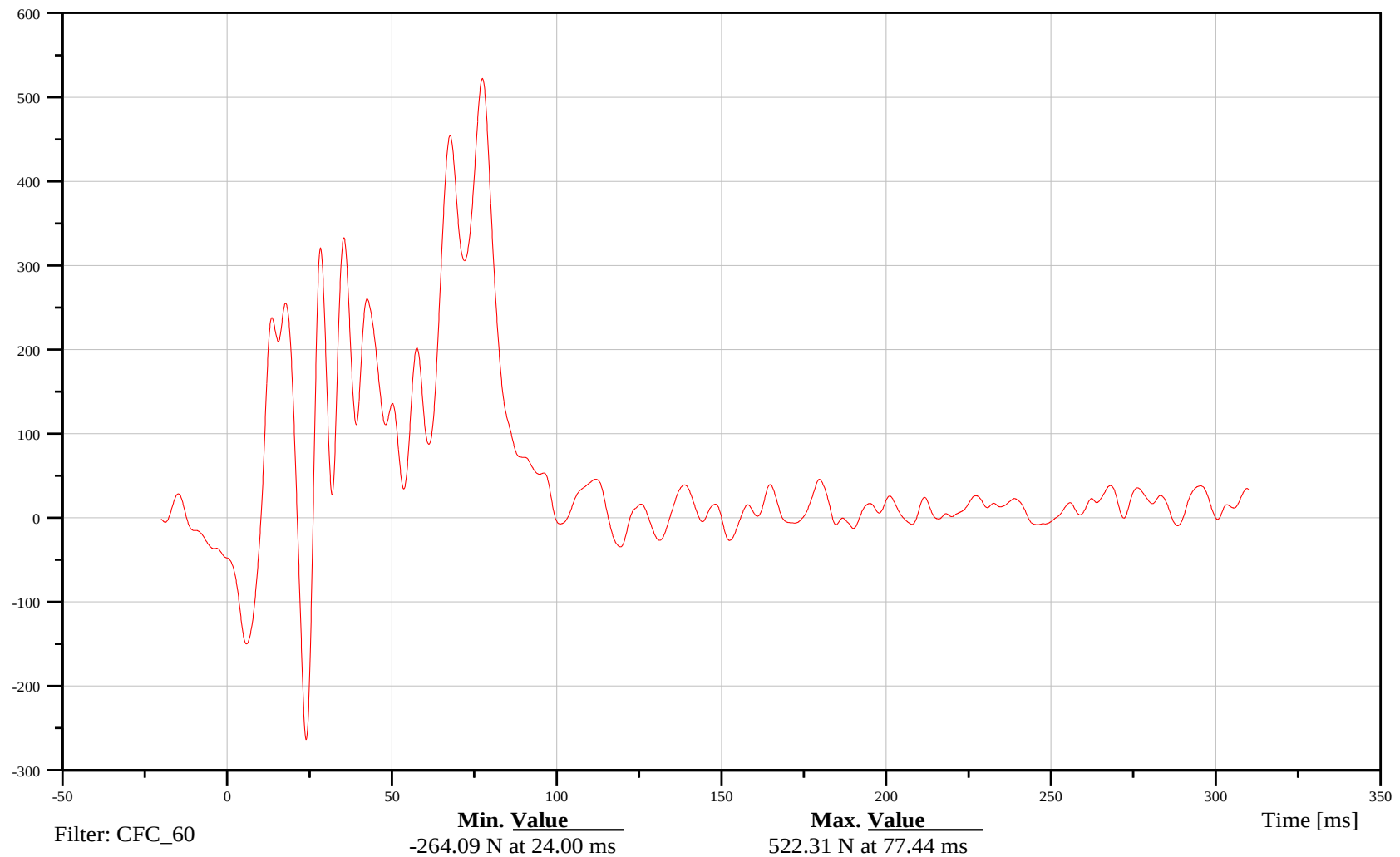
Date: 11/14/2013
Time: 15:28

BARRIER 7-1 FX

Customer: VRTC
Test Number: 131114

B0FBAR070100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

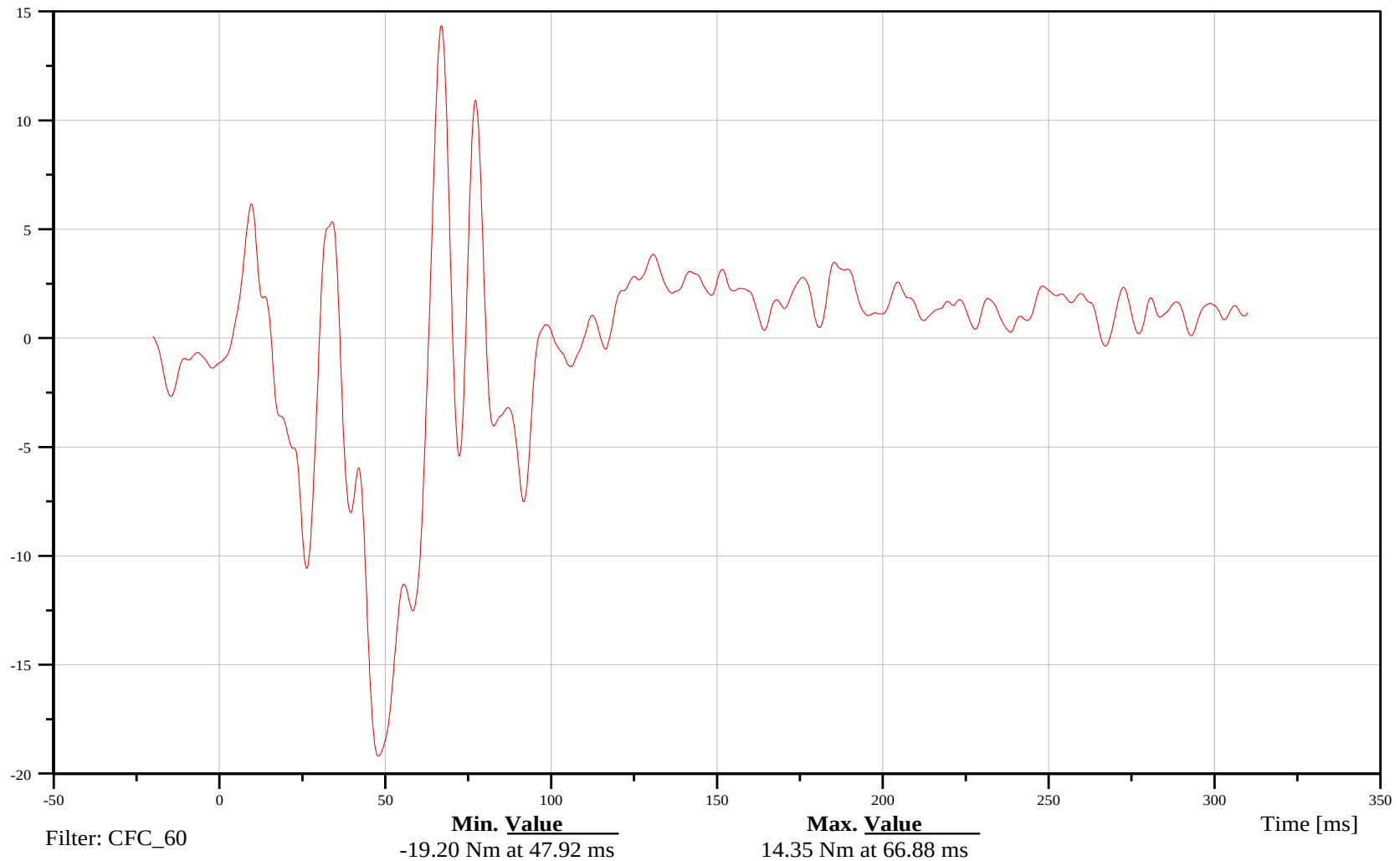
Date: 11/14/2013
Time: 15:28

BARRIER 7-1 My

Customer: VRTC
Test Number: 131114

B0FBAR070100MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

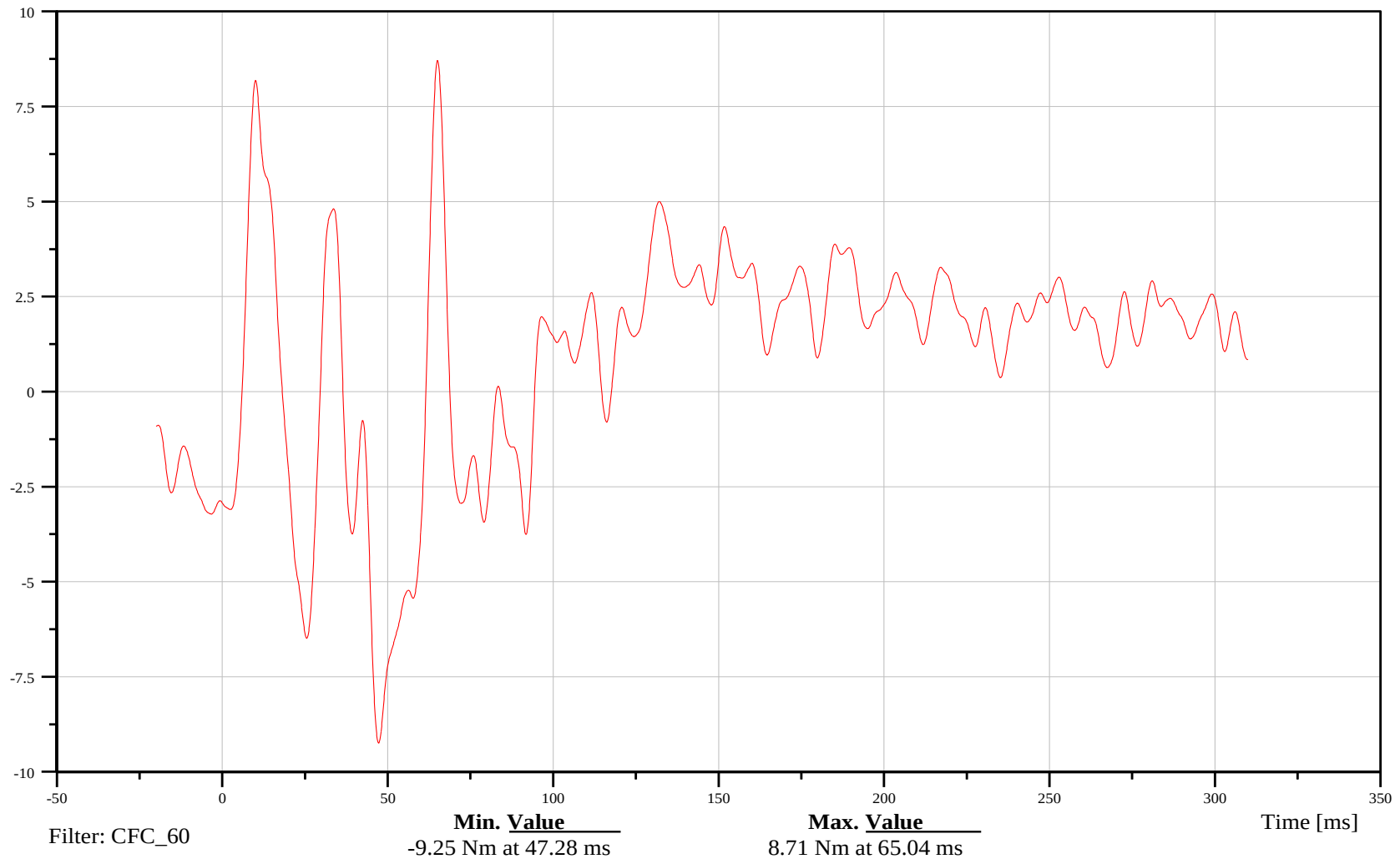
BARRIER 7-1 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070100MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

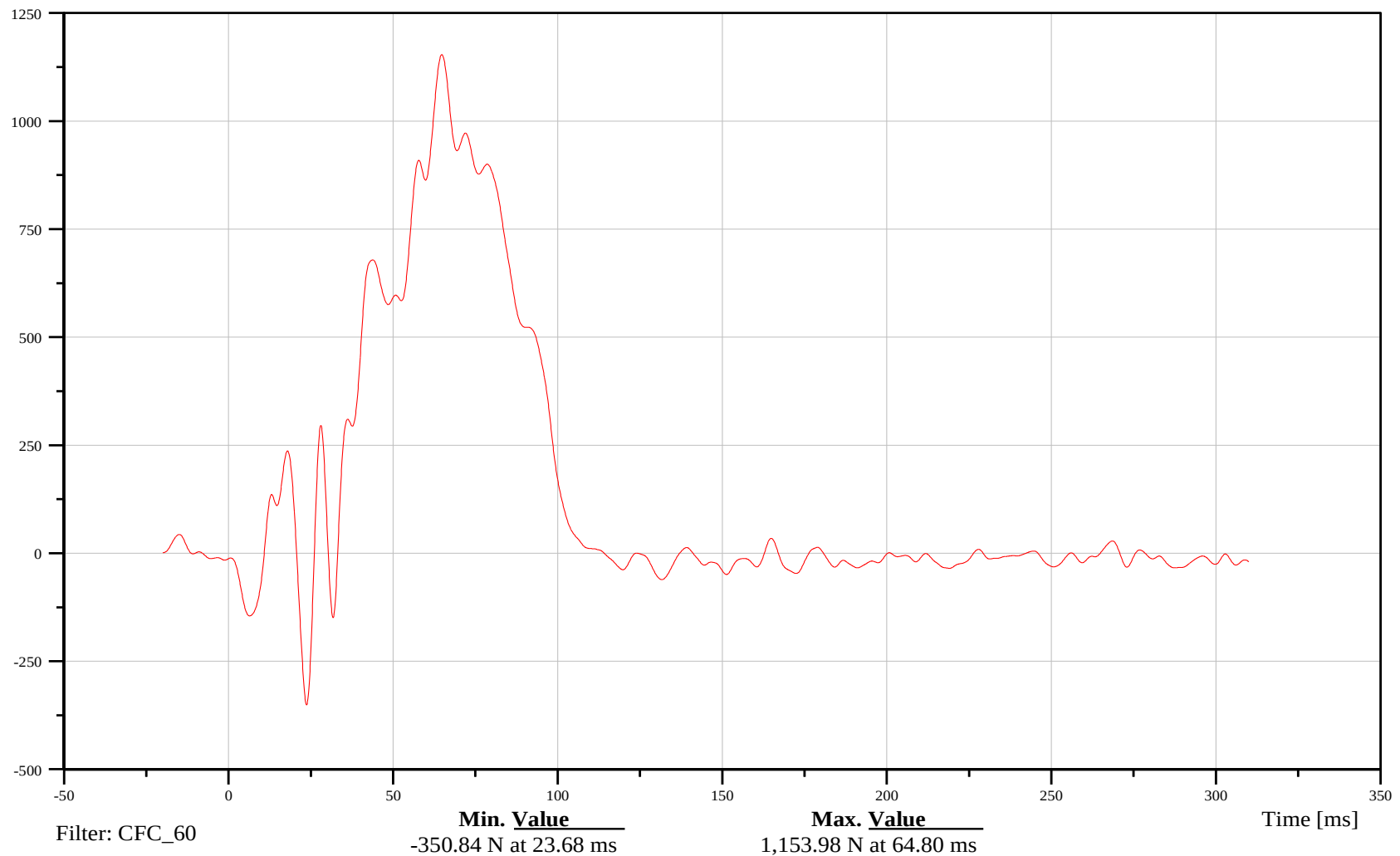
BARRIER 7-2 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

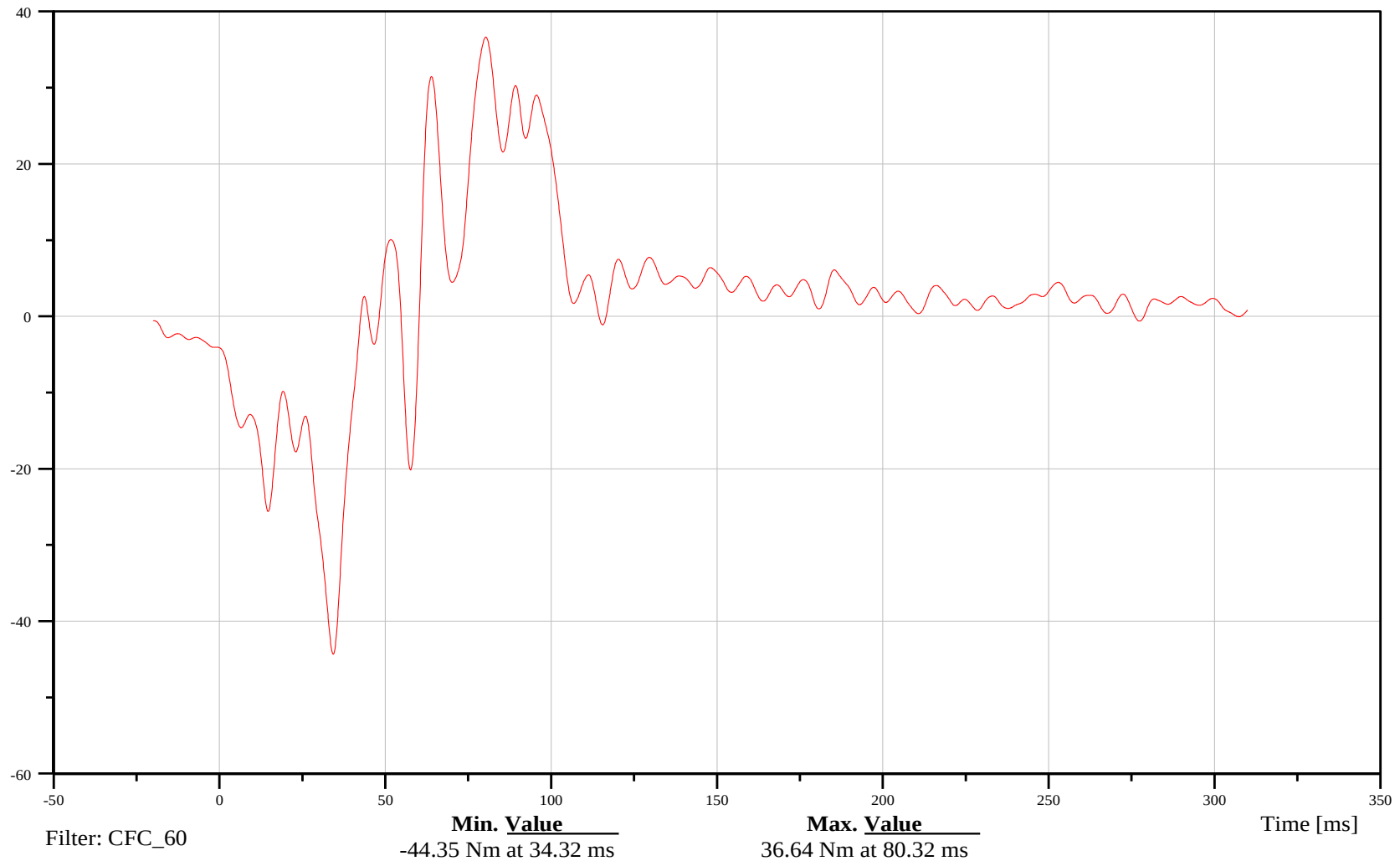
Date: 11/14/2013
Time: 15:28

BARRIER 7-2 My

Customer: VRTC
Test Number: 131114

B0FBAR070200MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

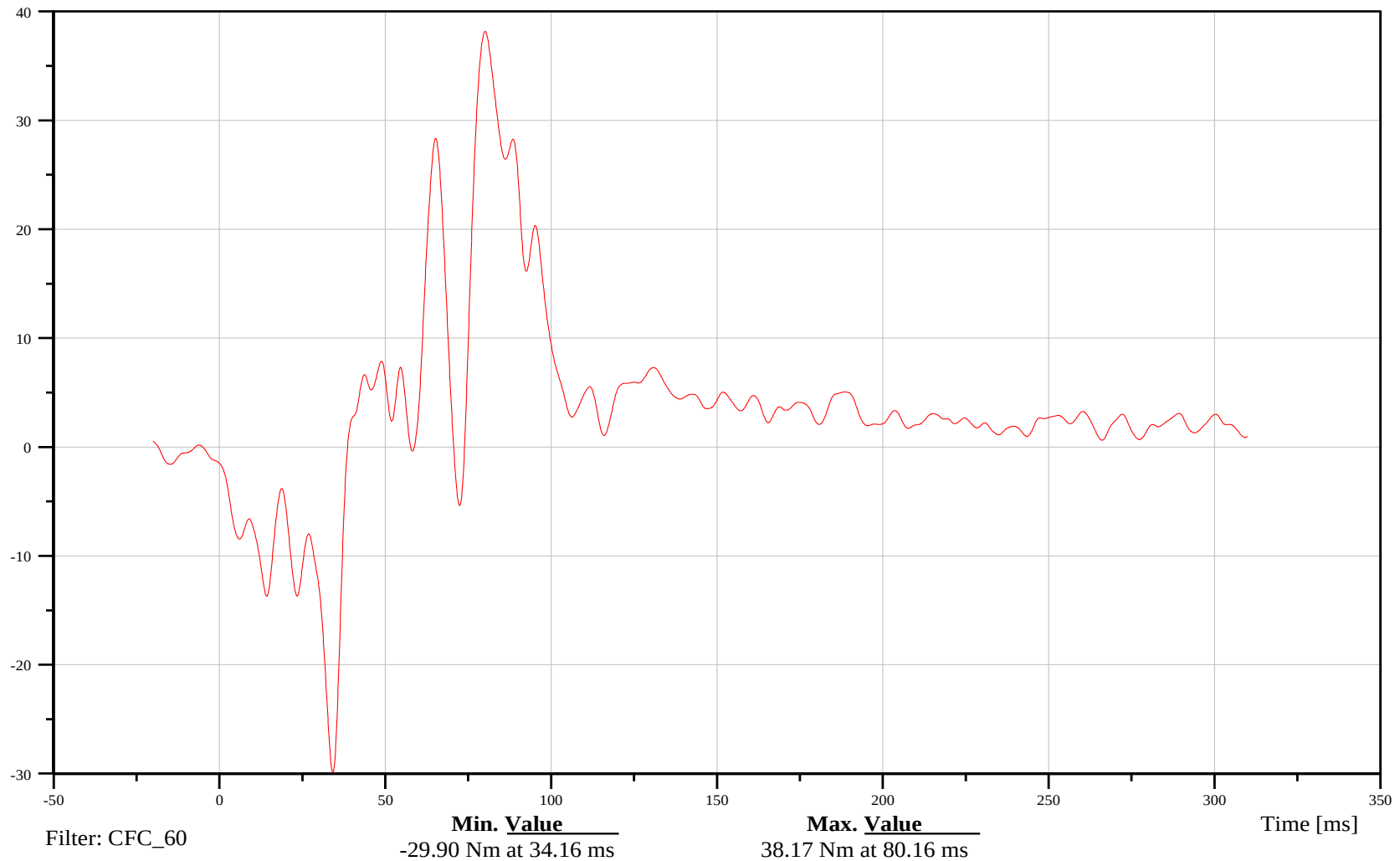
BARRIER 7-2 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070200MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

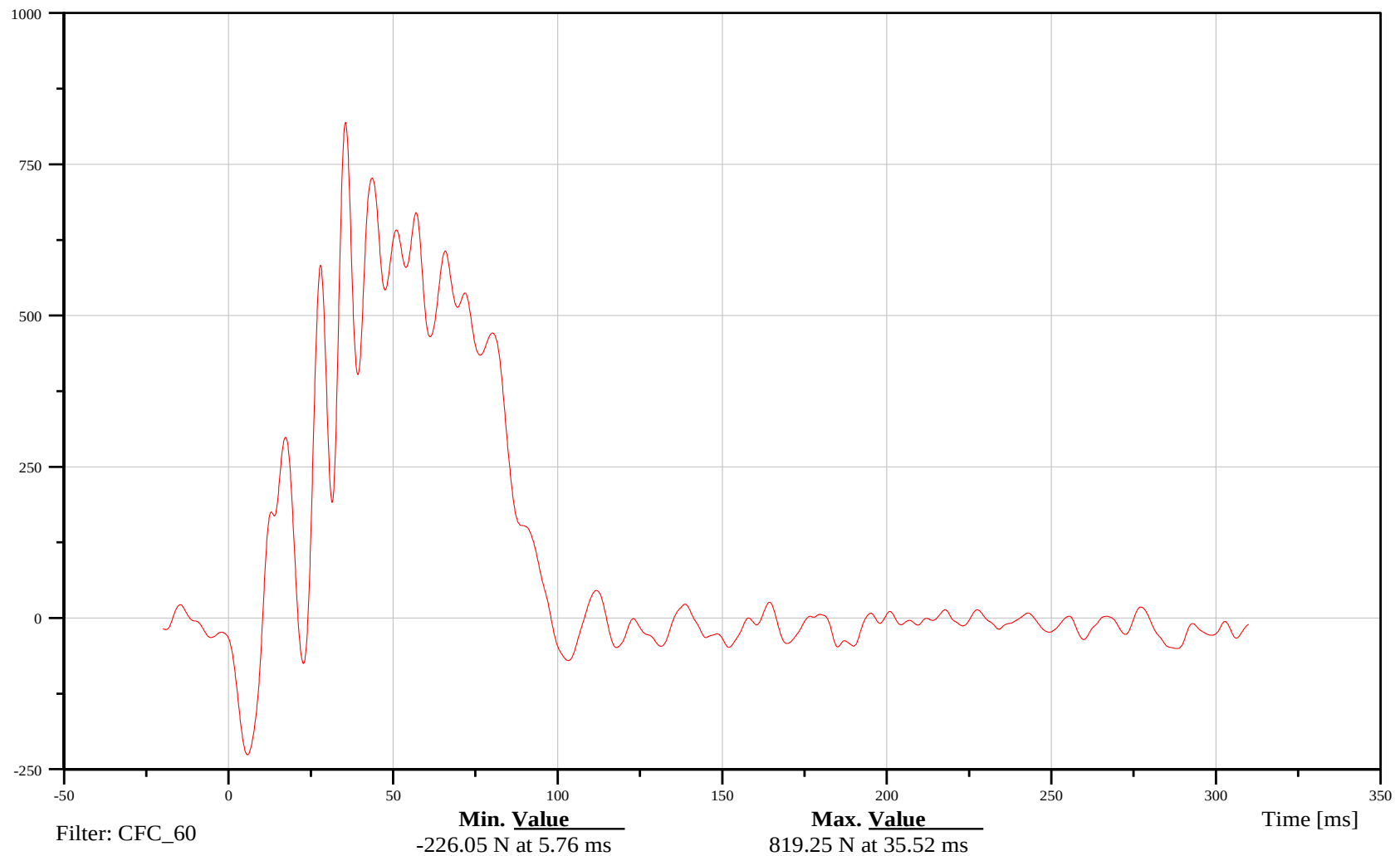
BARRIER 7-3 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

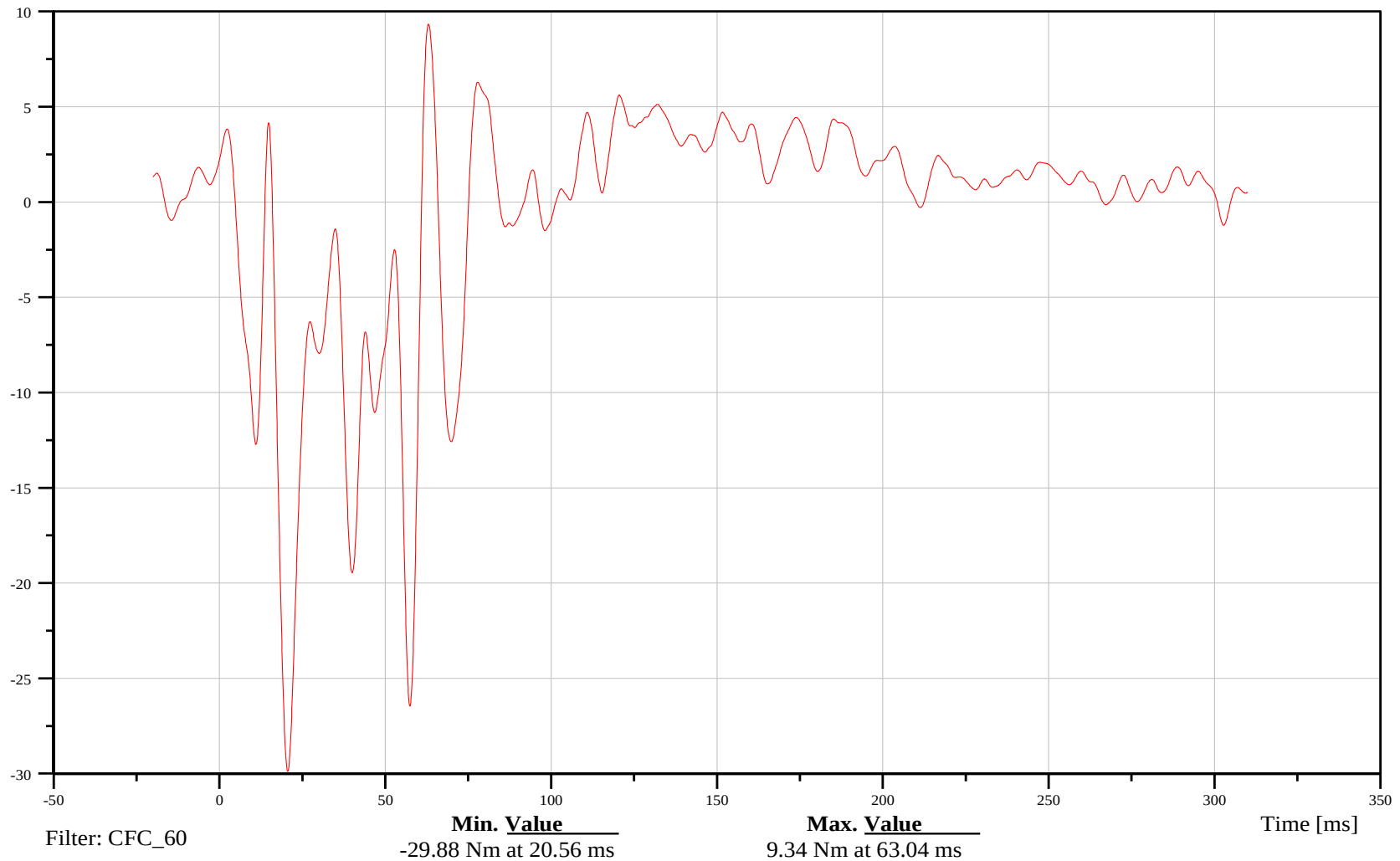
Date: 11/14/2013
Time: 15:28

BARRIER 7-3 My

Customer: VRTC
Test Number: 131114

B0FBAR070300MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

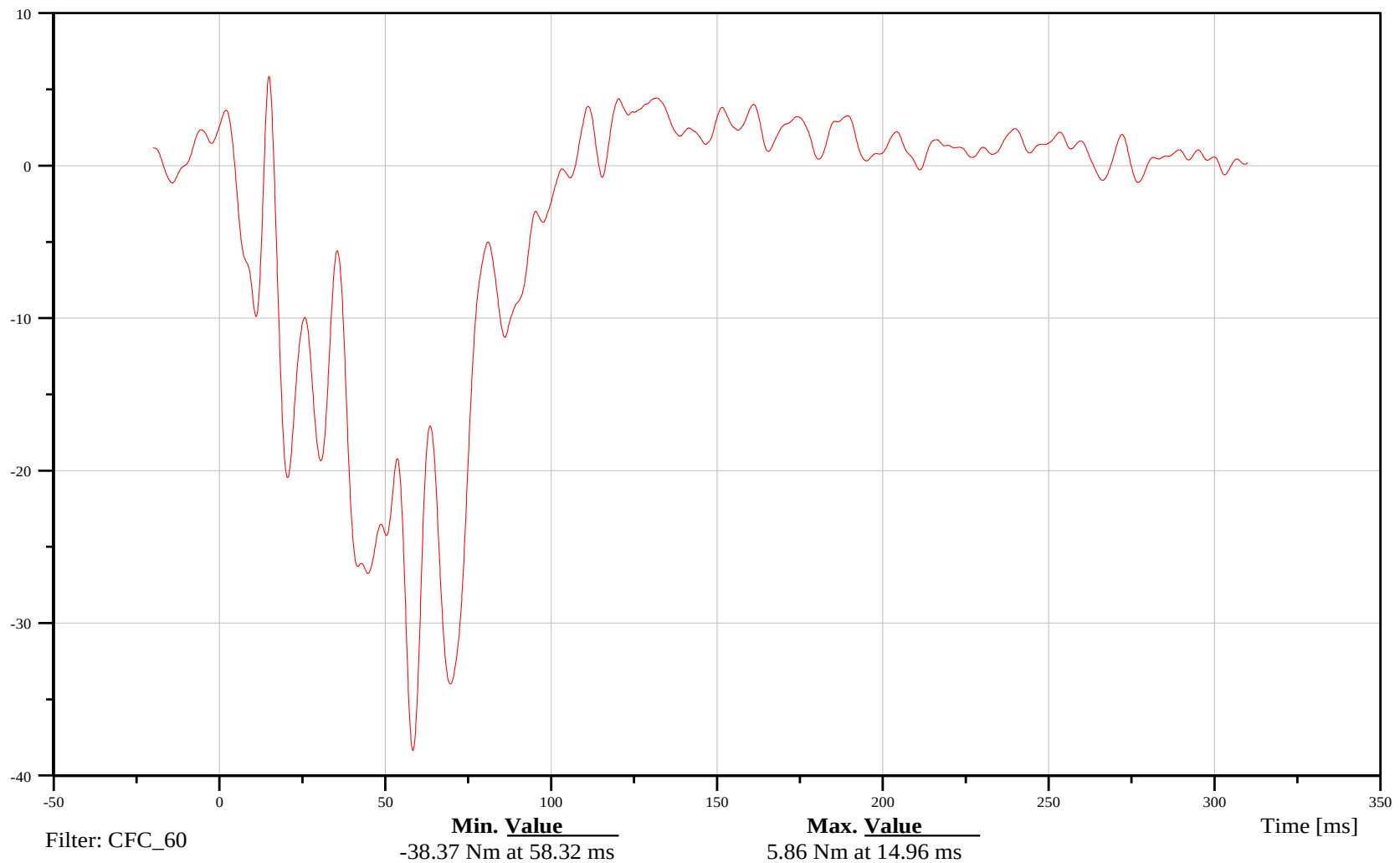
BARRIER 7-3 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070300MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

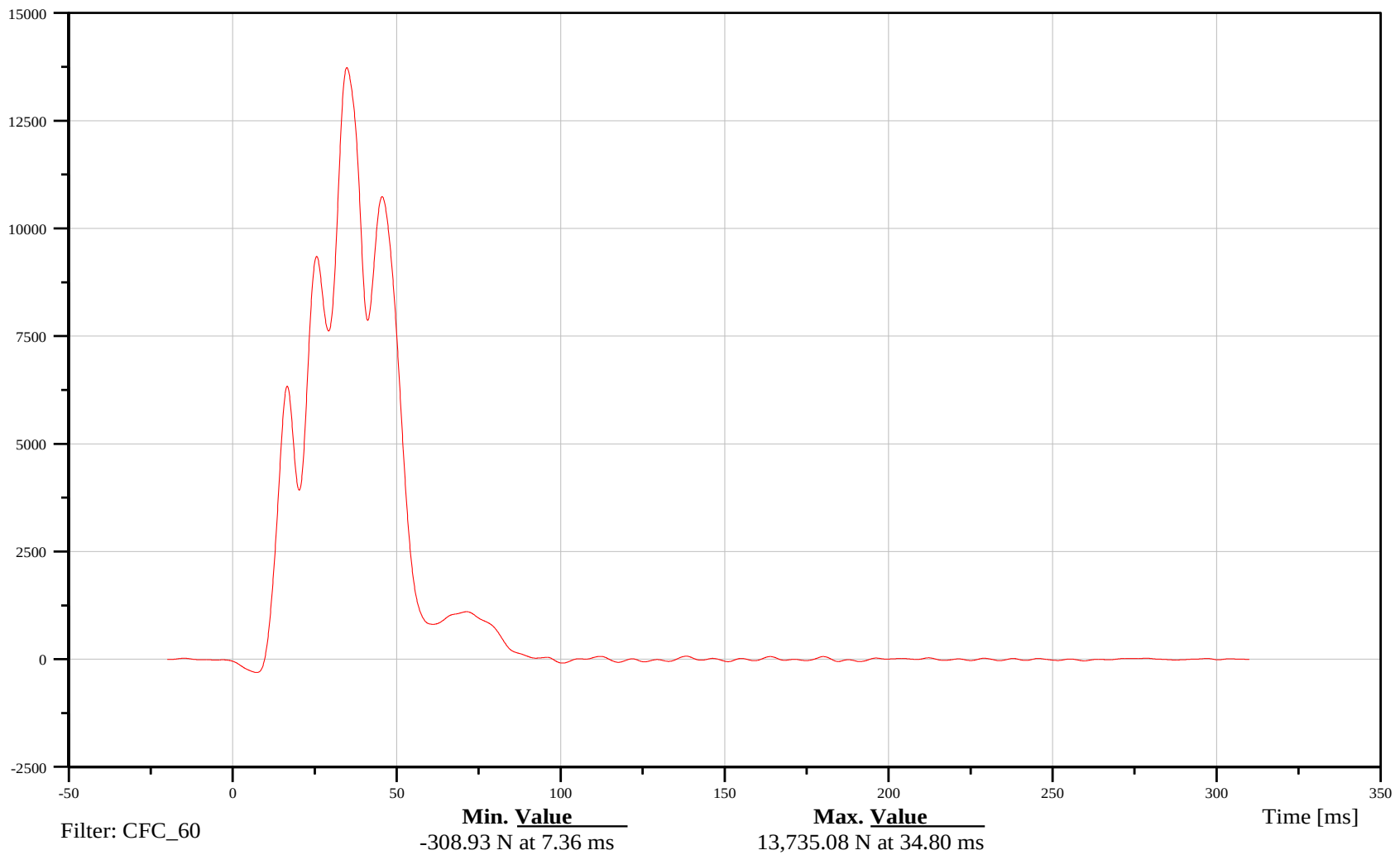
BARRIER 7-4 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

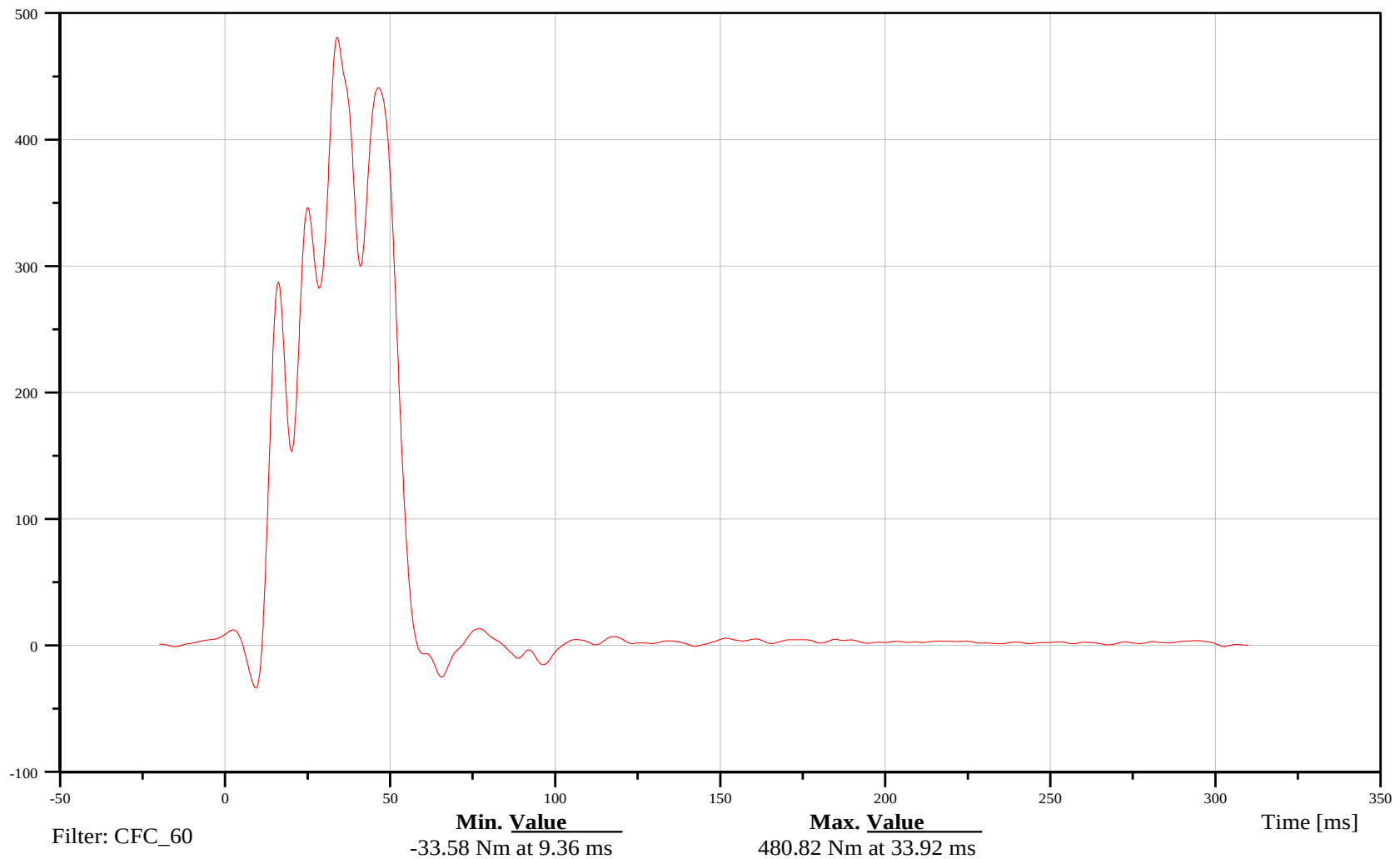
Date: 11/14/2013
Time: 15:28

BARRIER 7-4 My

Customer: VRTC
Test Number: 131114

B0FBAR070400MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

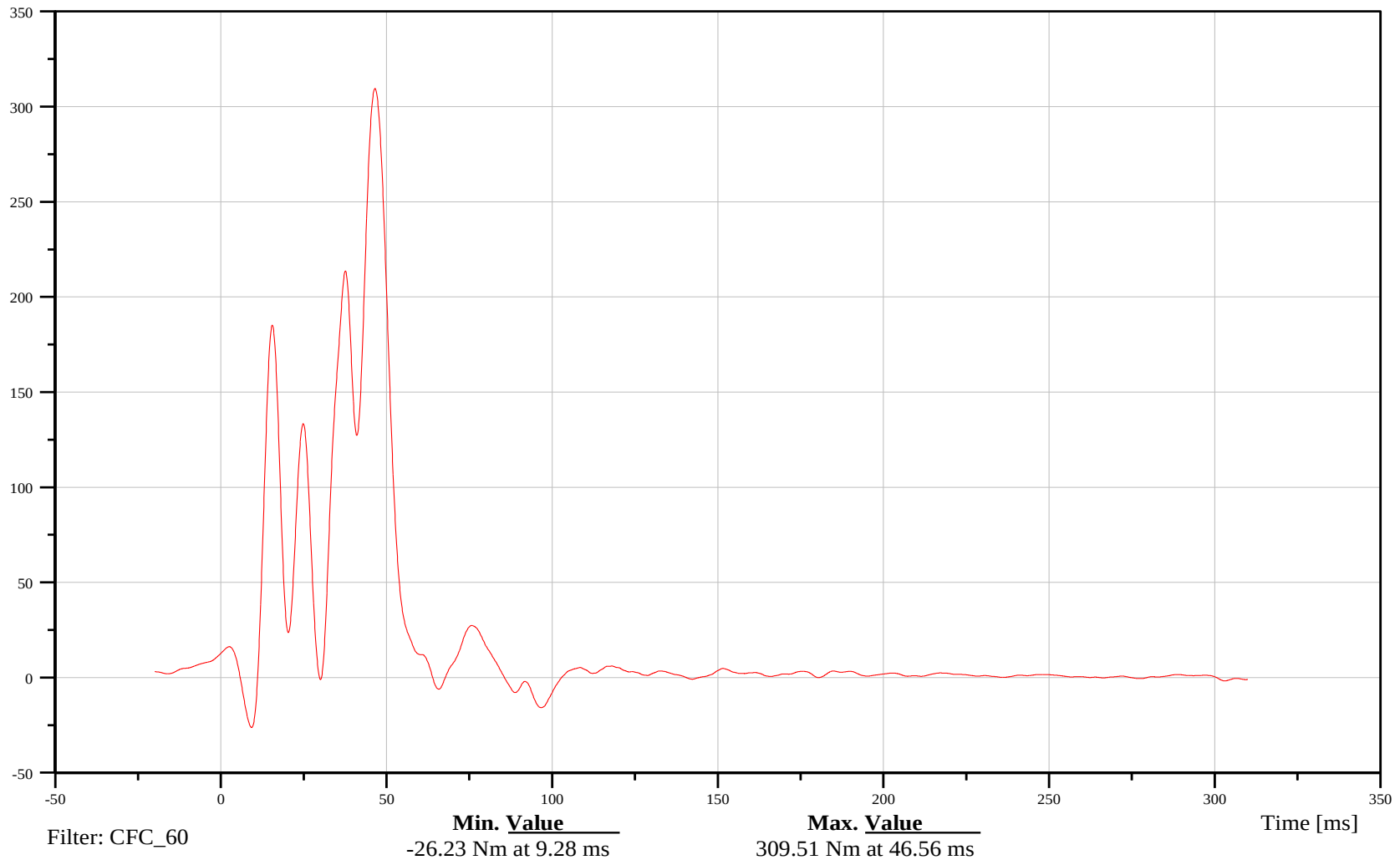
Date: 11/14/2013
Time: 15:28

BARRIER 7-4 Mz

Customer: VRTC
Test Number: 131114

B0FBAR070400MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

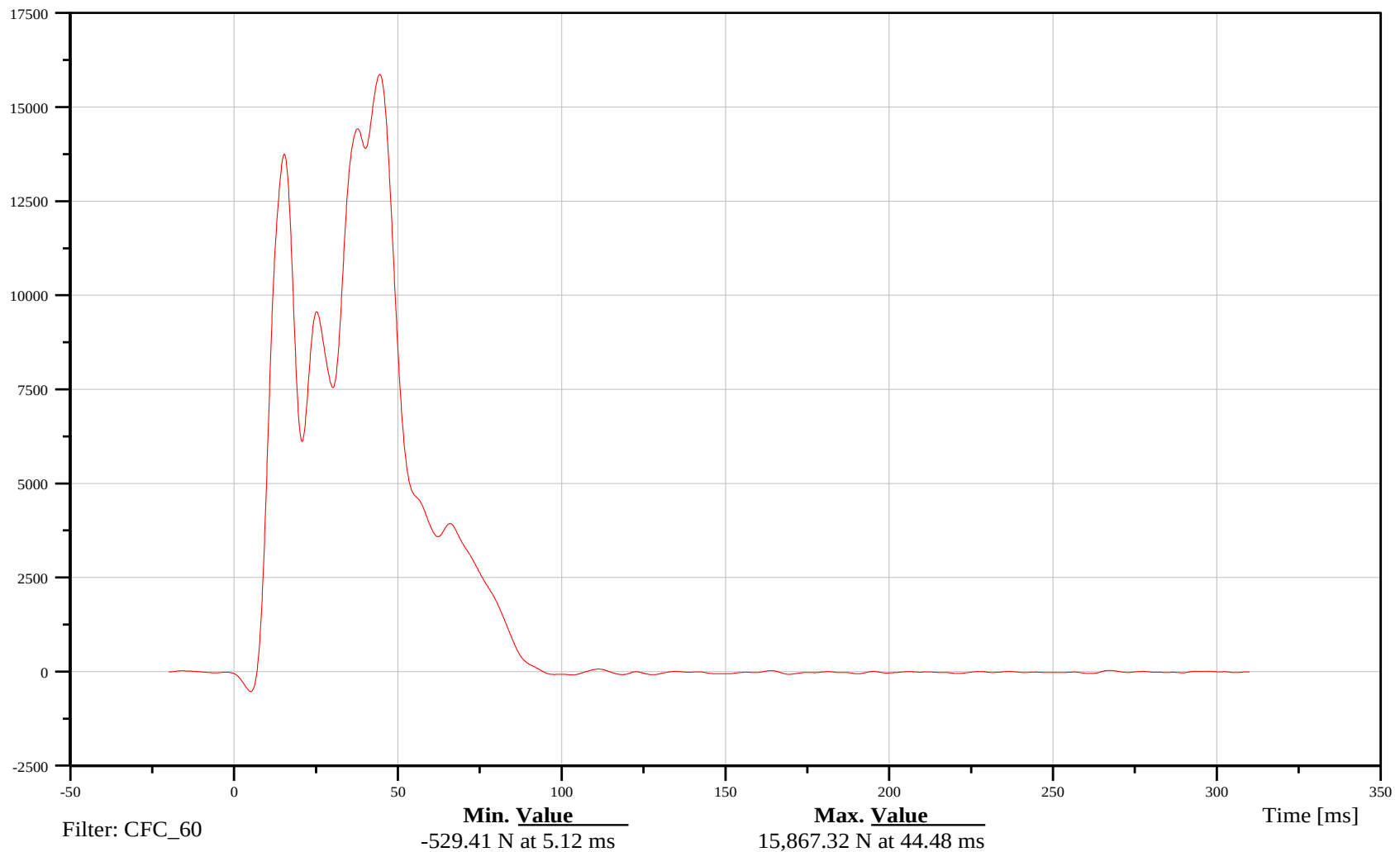
BARRIER 7-5 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

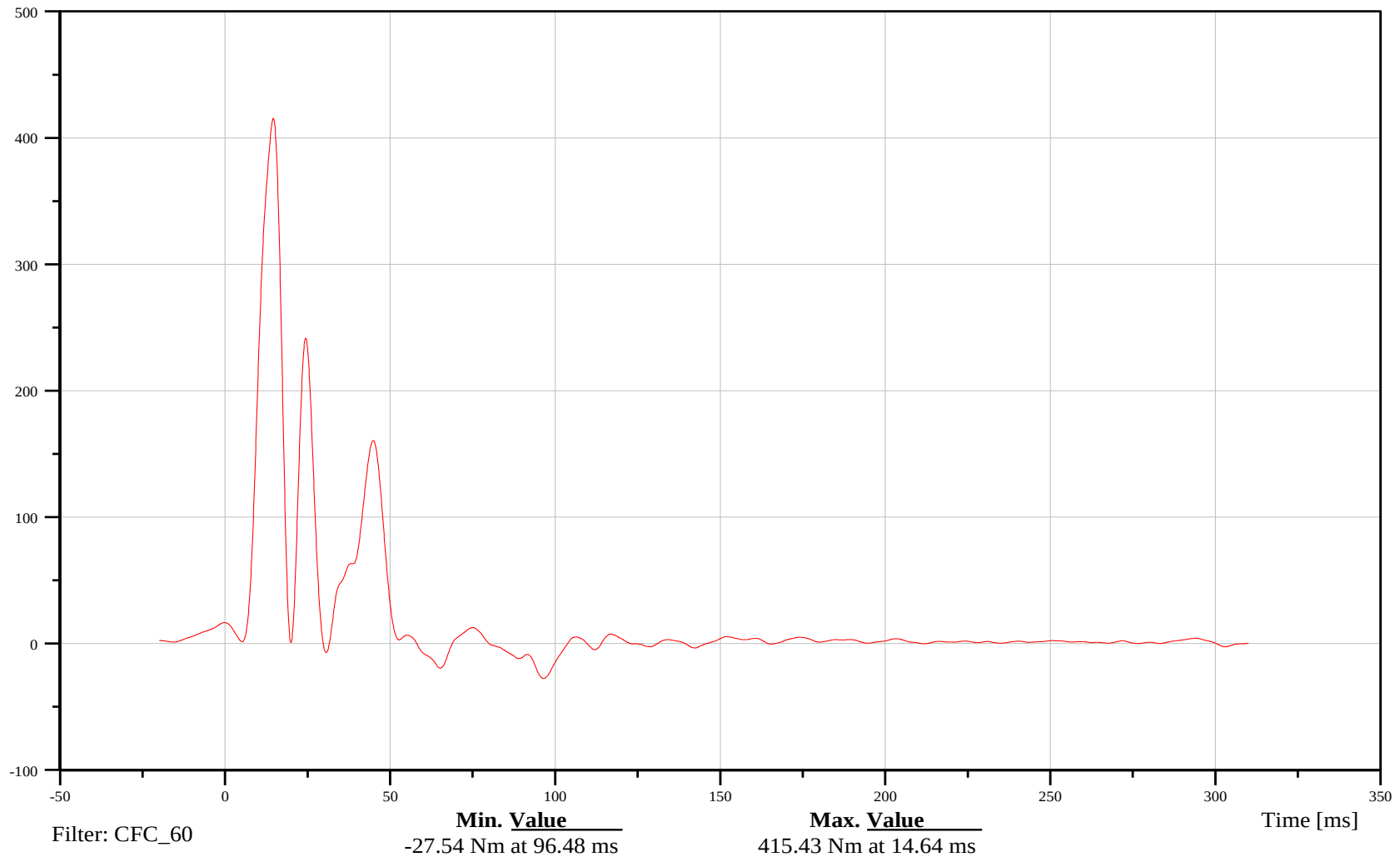
BARRIER 7-5 My

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070500MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

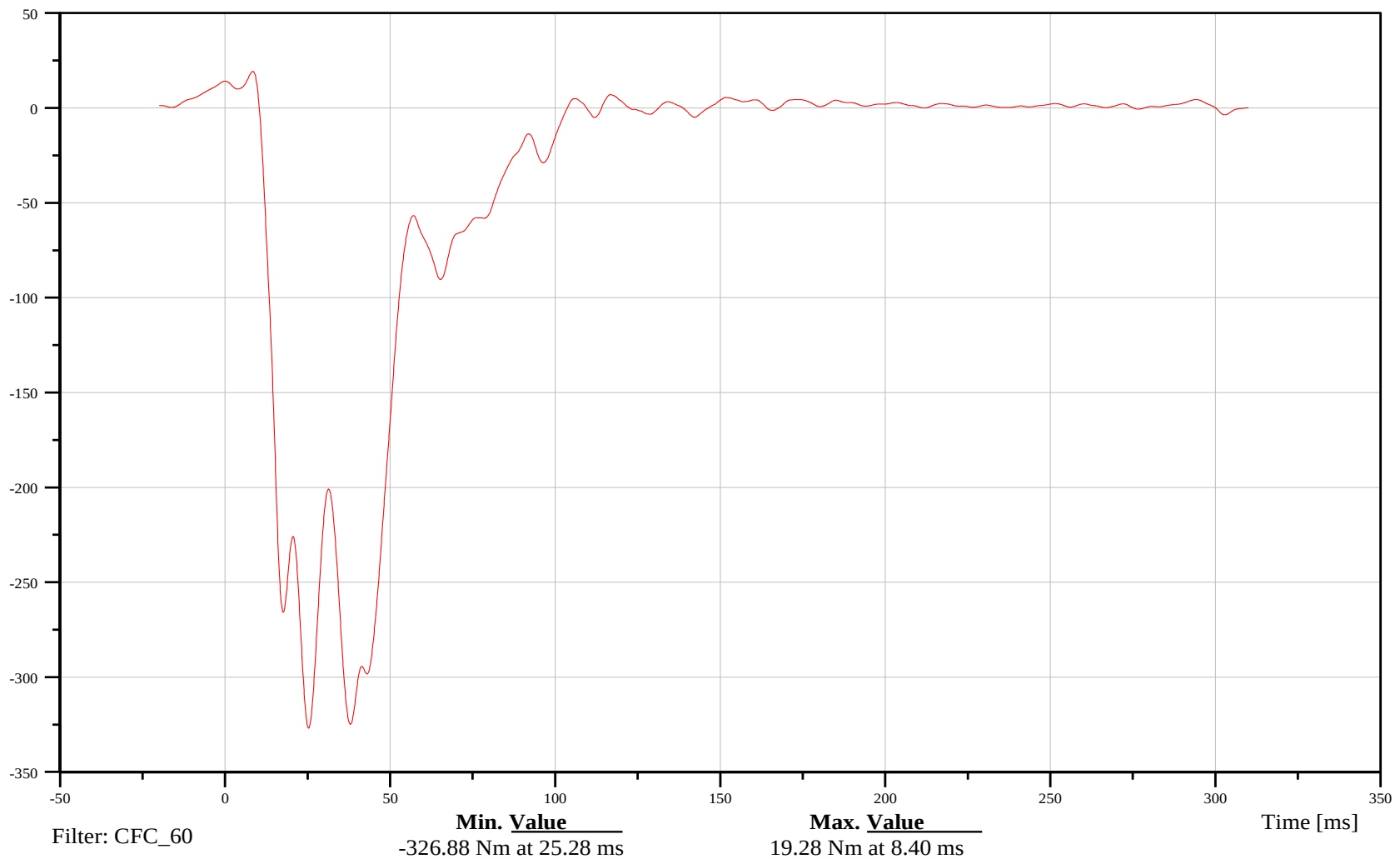
BARRIER 7-5 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070500MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

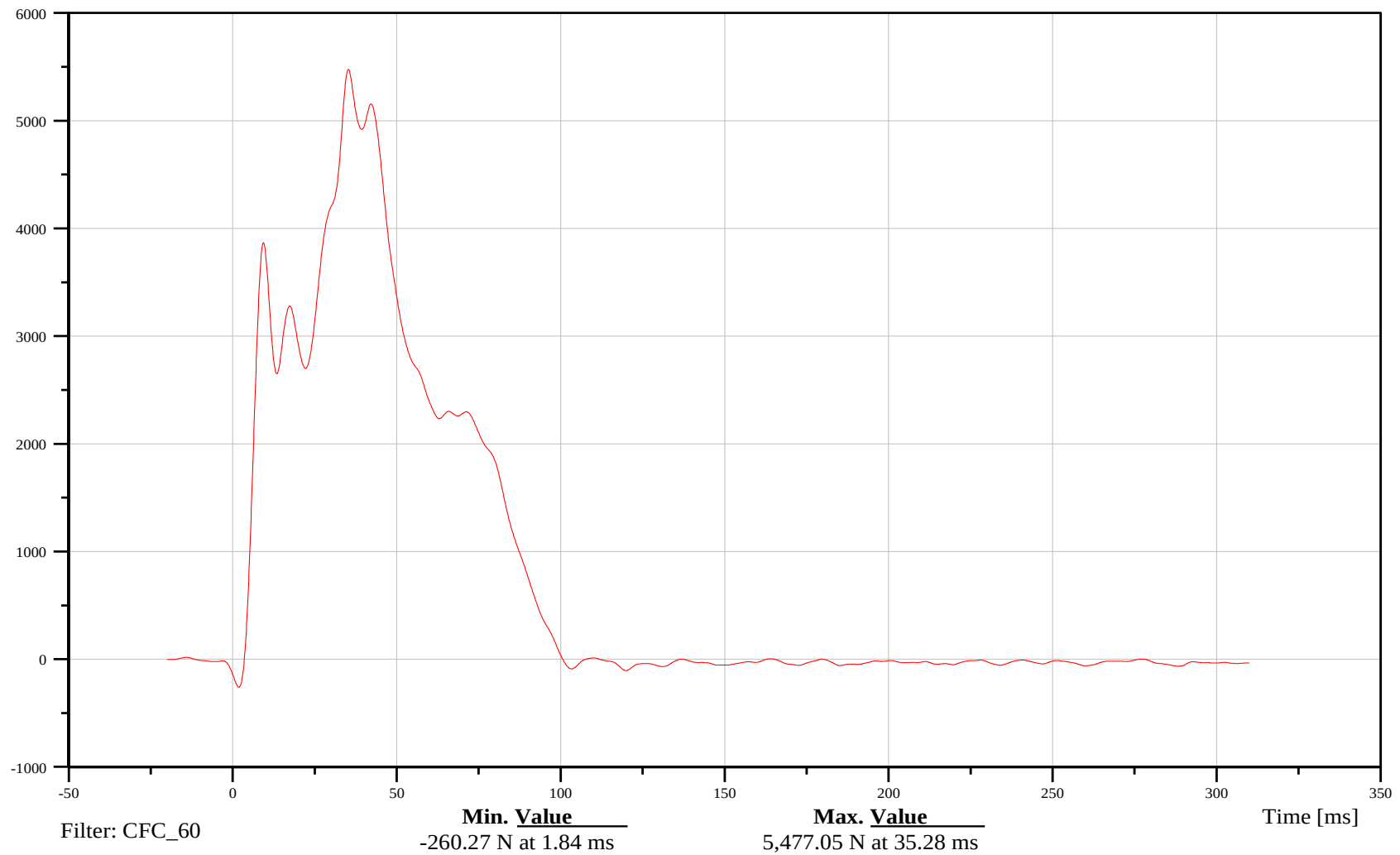
BARRIER 7-6 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

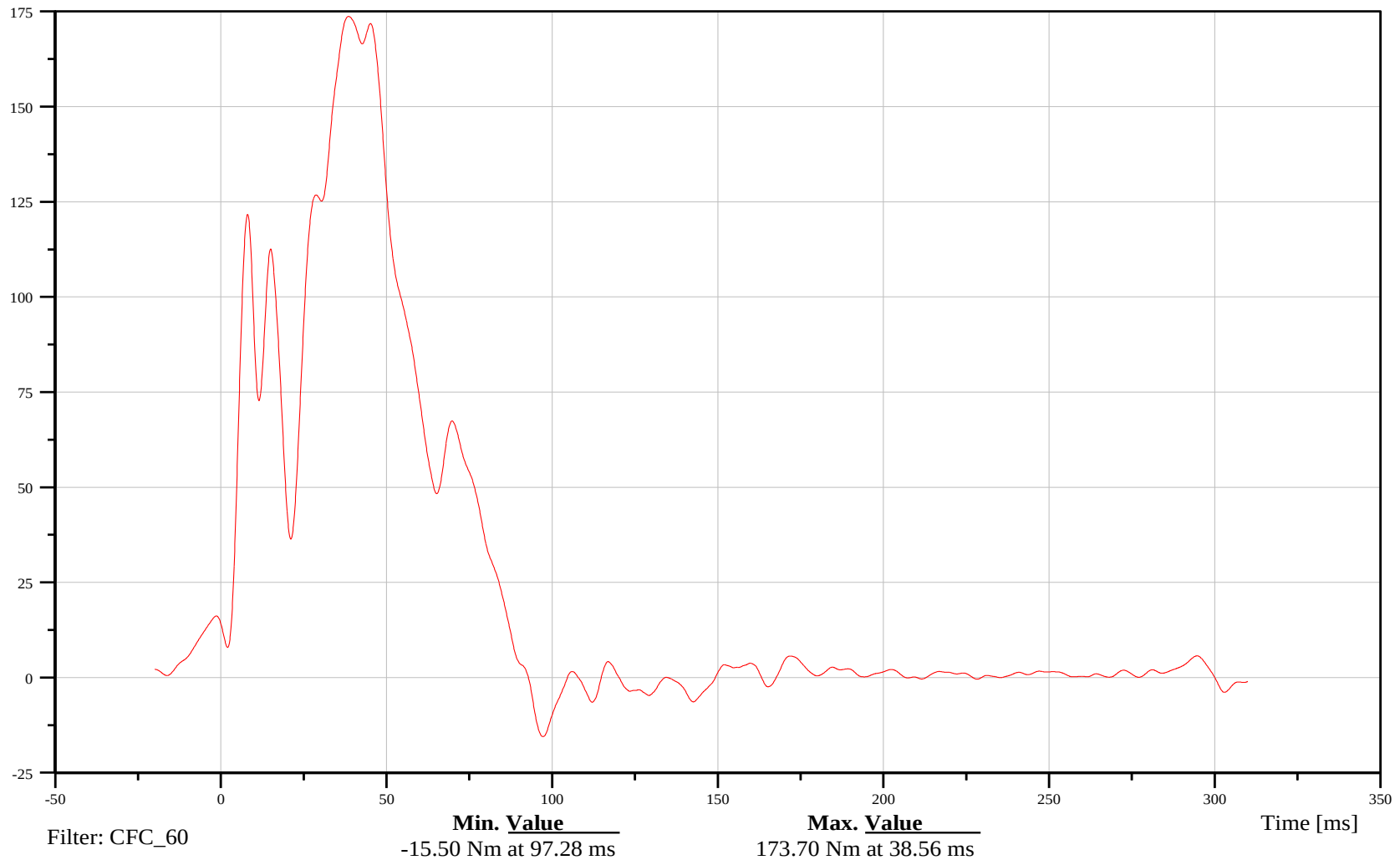
BARRIER 7-6 My

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070600MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

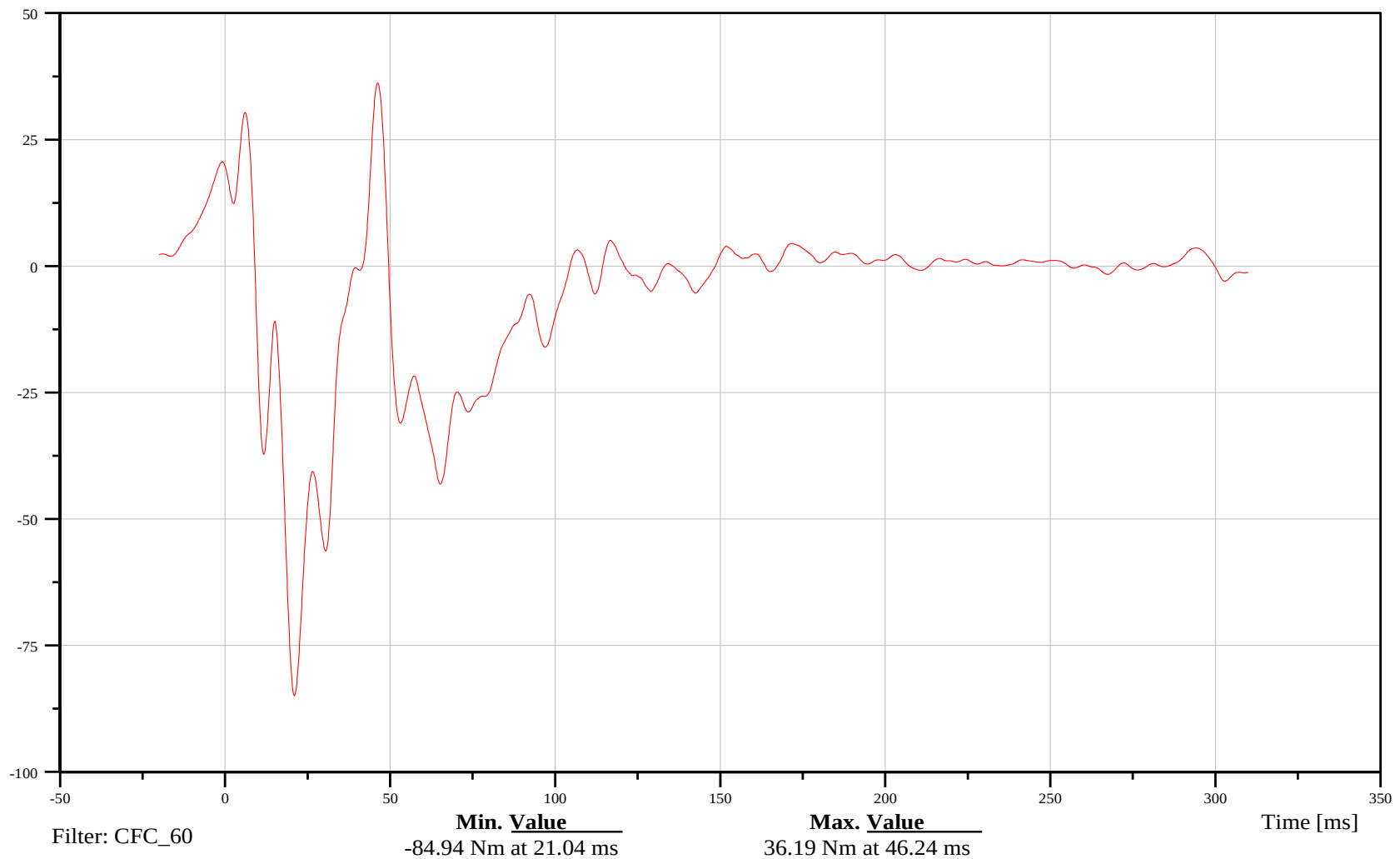
BARRIER 7-6 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070600MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

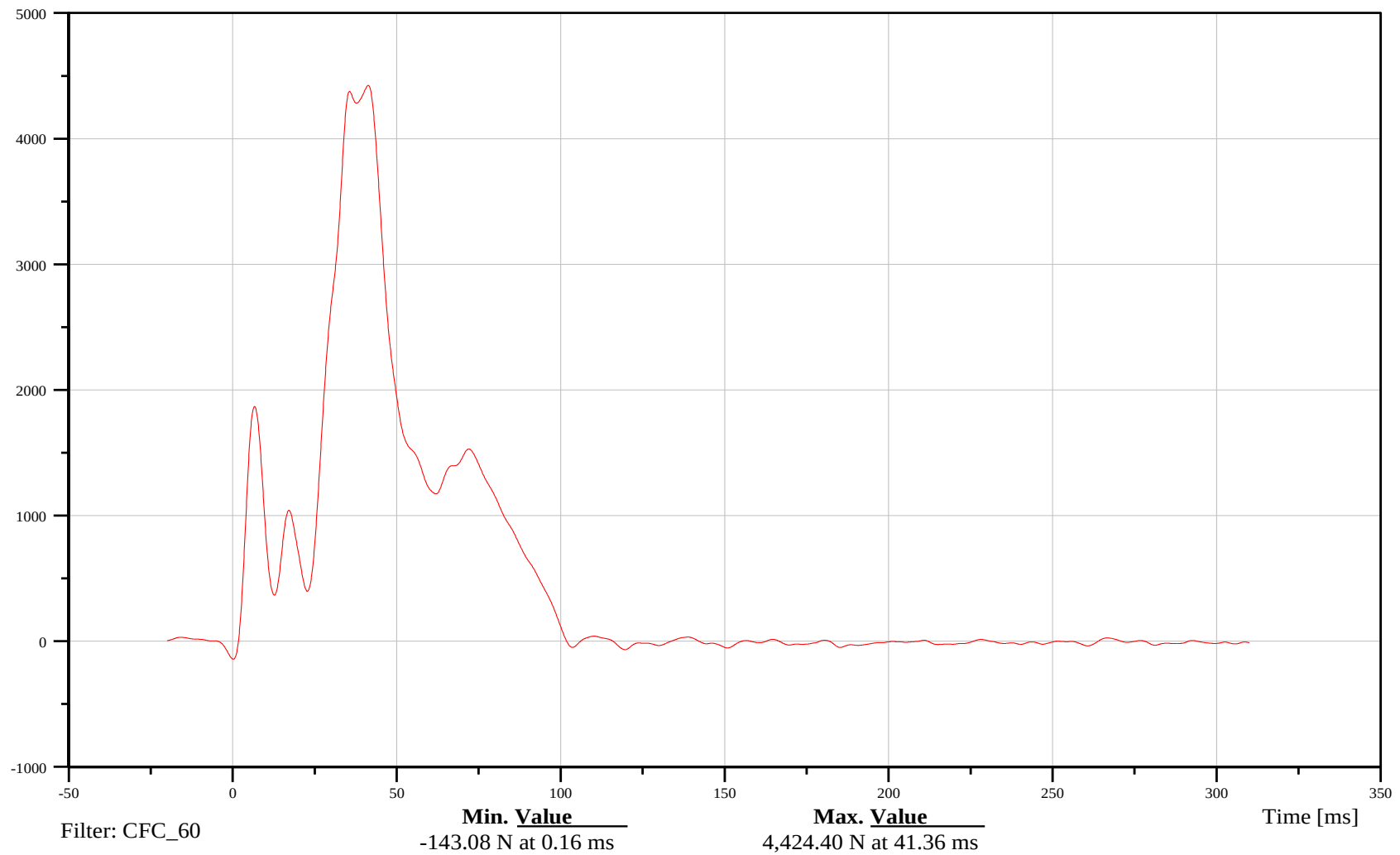
BARRIER 7-7 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070700FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

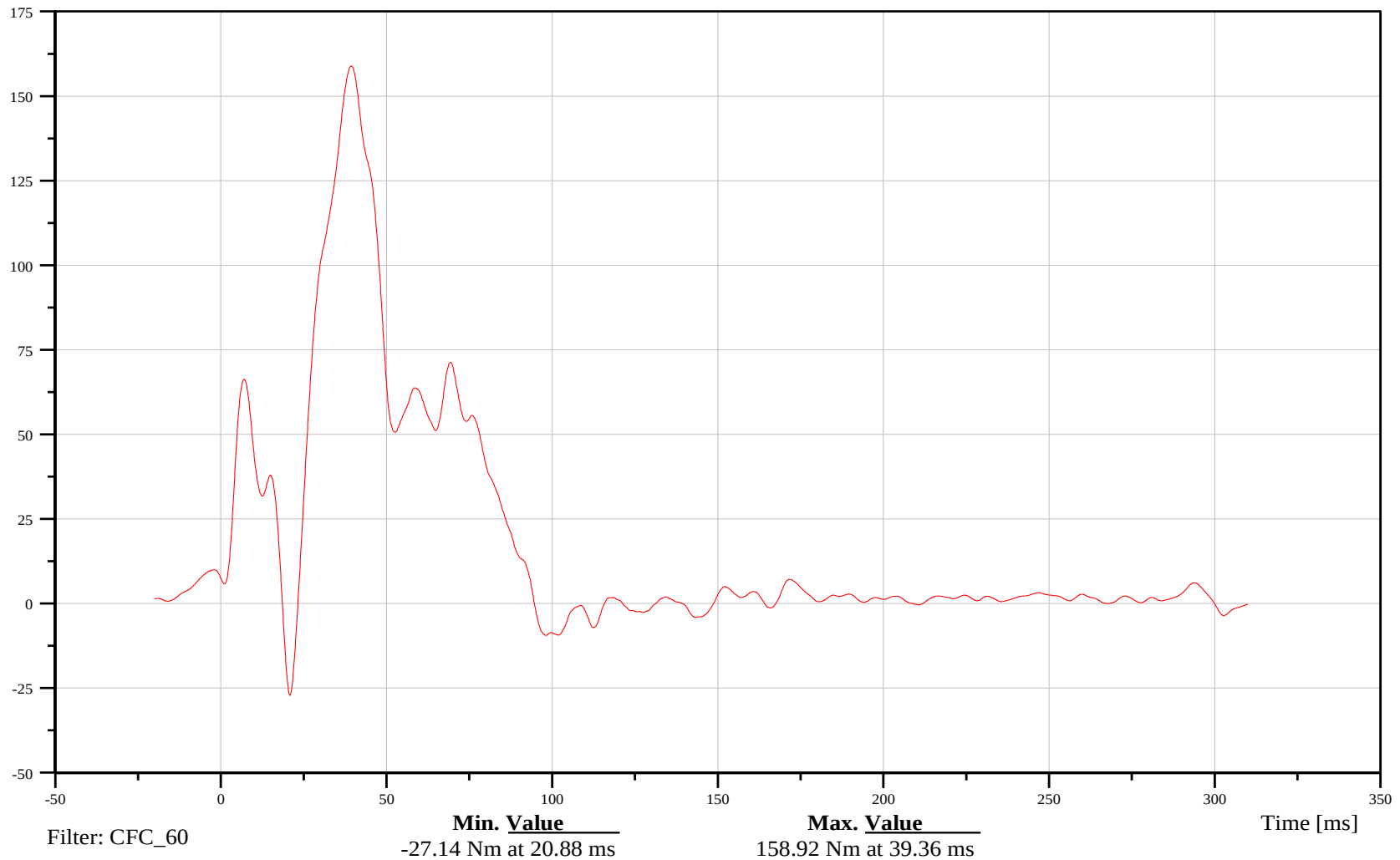
BARRIER 7-7 My

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070700MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

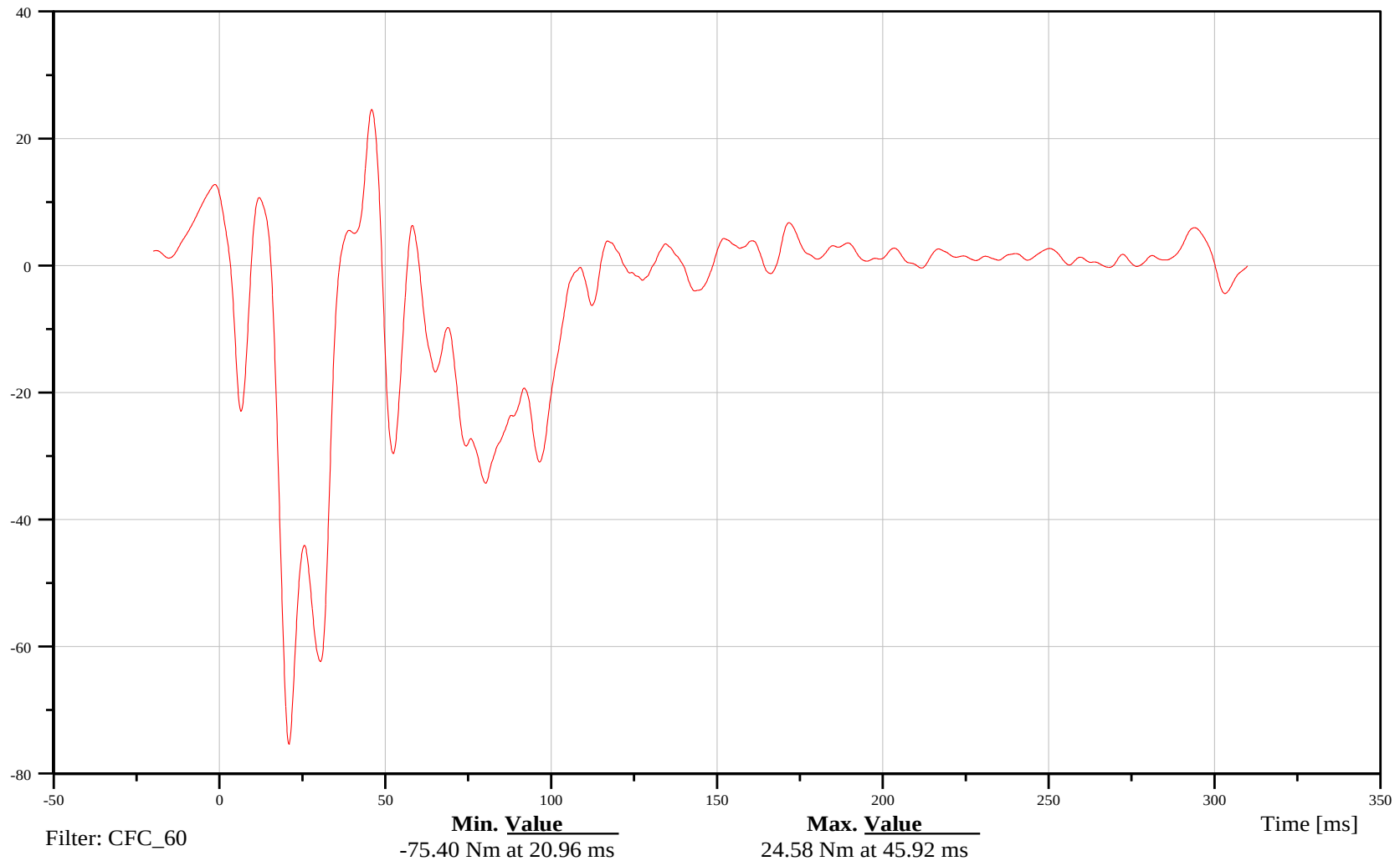
Date: 11/14/2013
Time: 15:28

BARRIER 7-7 Mz

Customer: VRTC
Test Number: 131114

B0FBAR070700MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

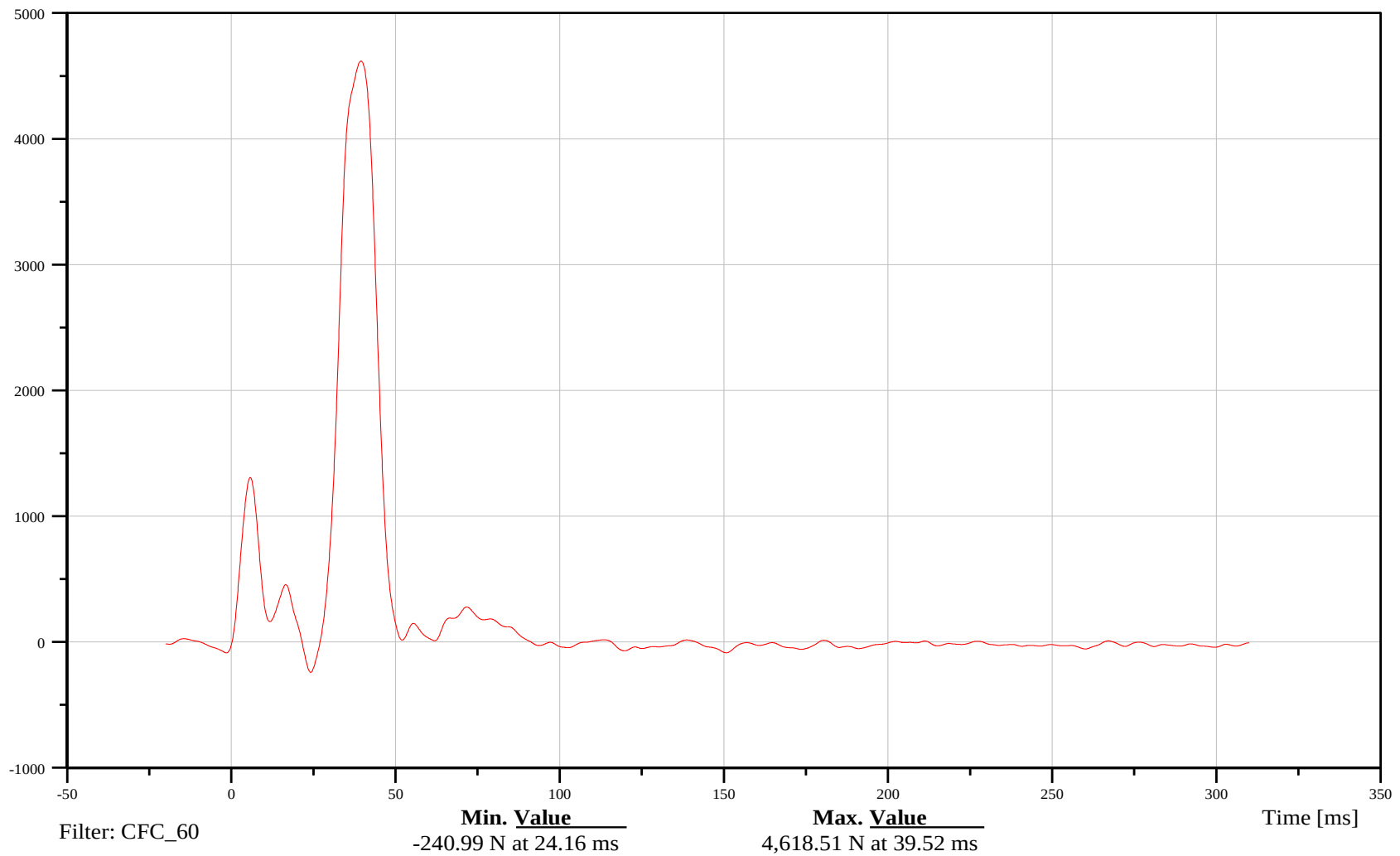
BARRIER 7-8 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070800FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

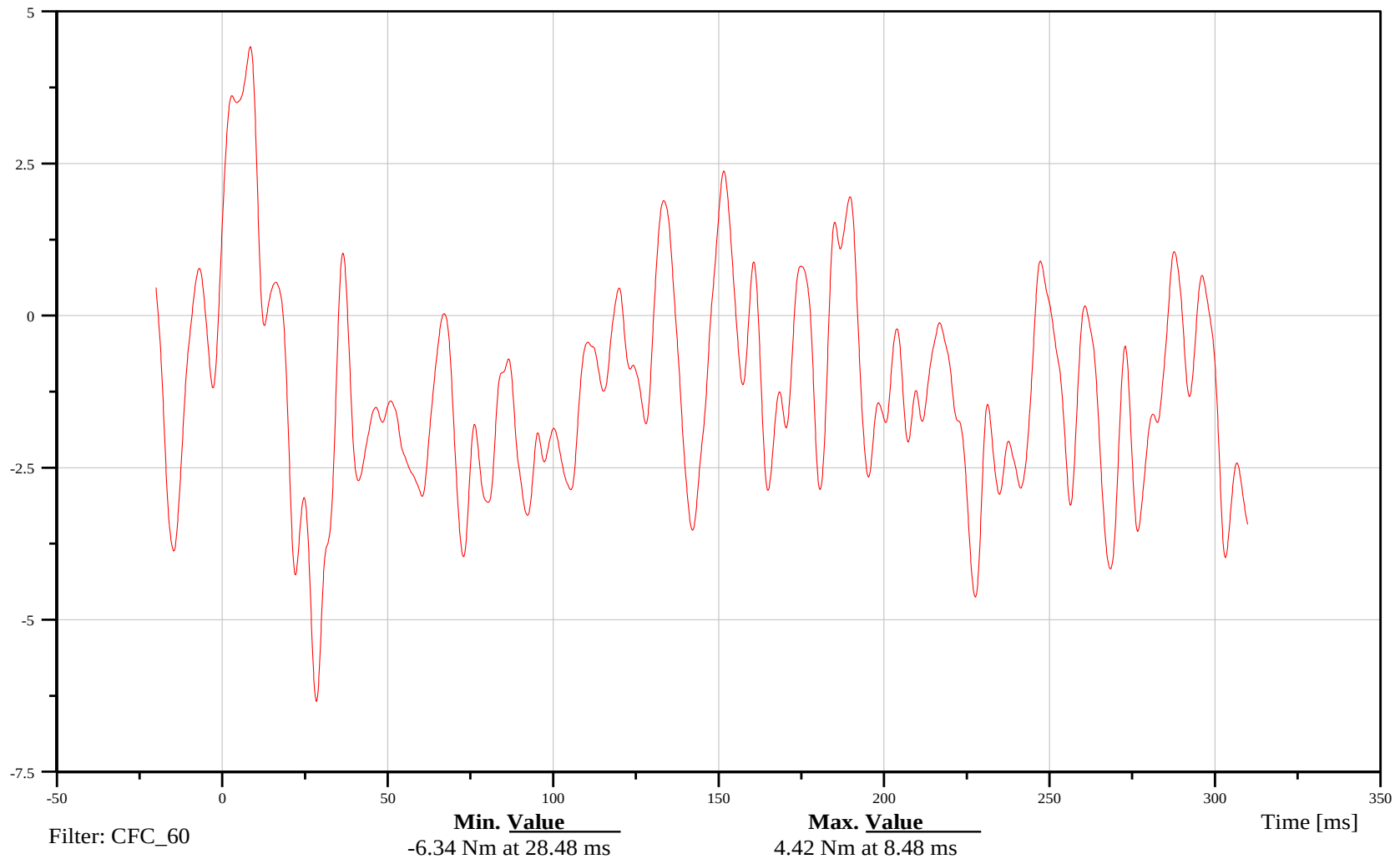
Date: 11/14/2013
Time: 15:28

BARRIER 7-8 My

Customer: VRTC
Test Number: 131114

B0FBAR070800MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

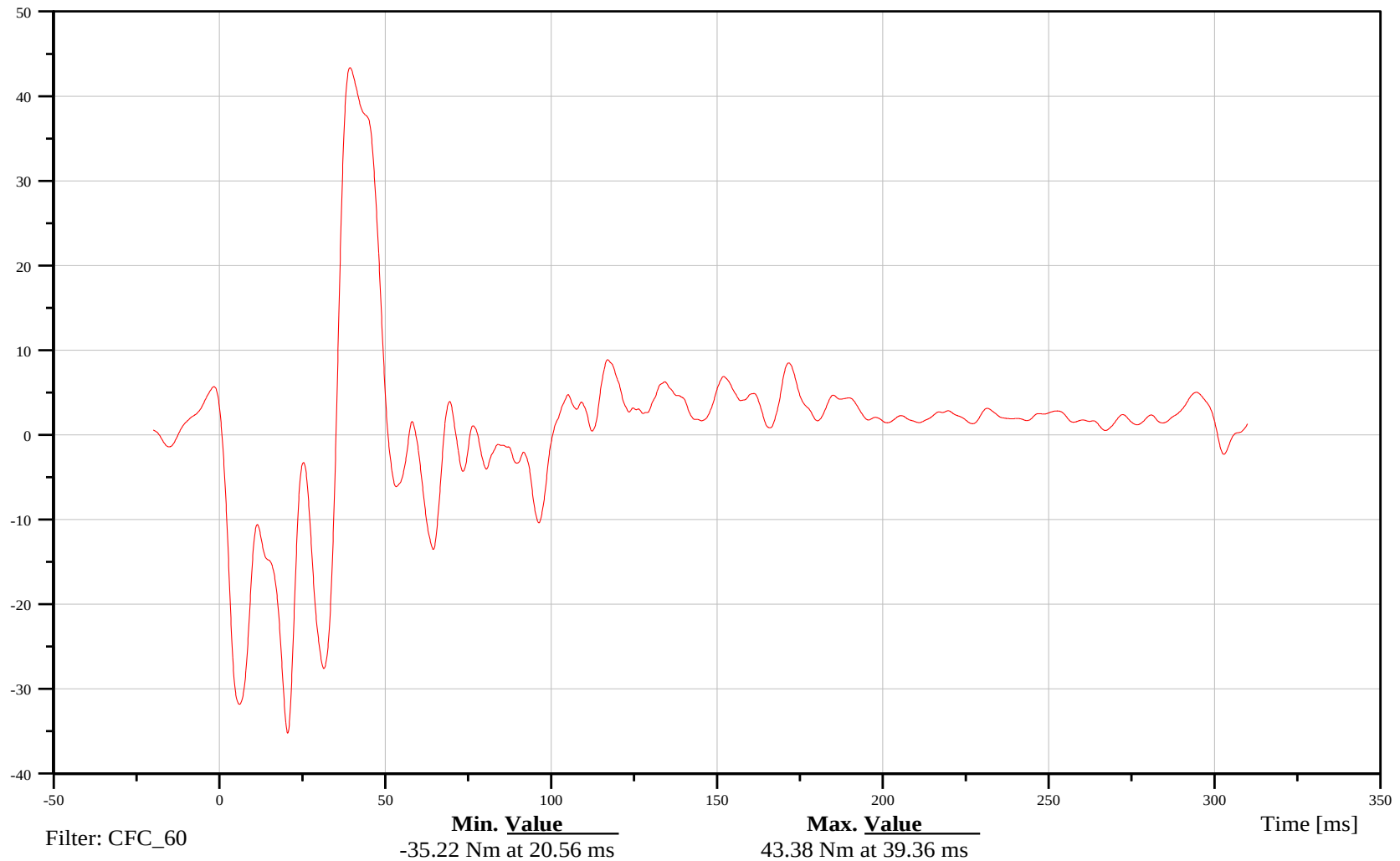
BARRIER 7-8 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070800MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

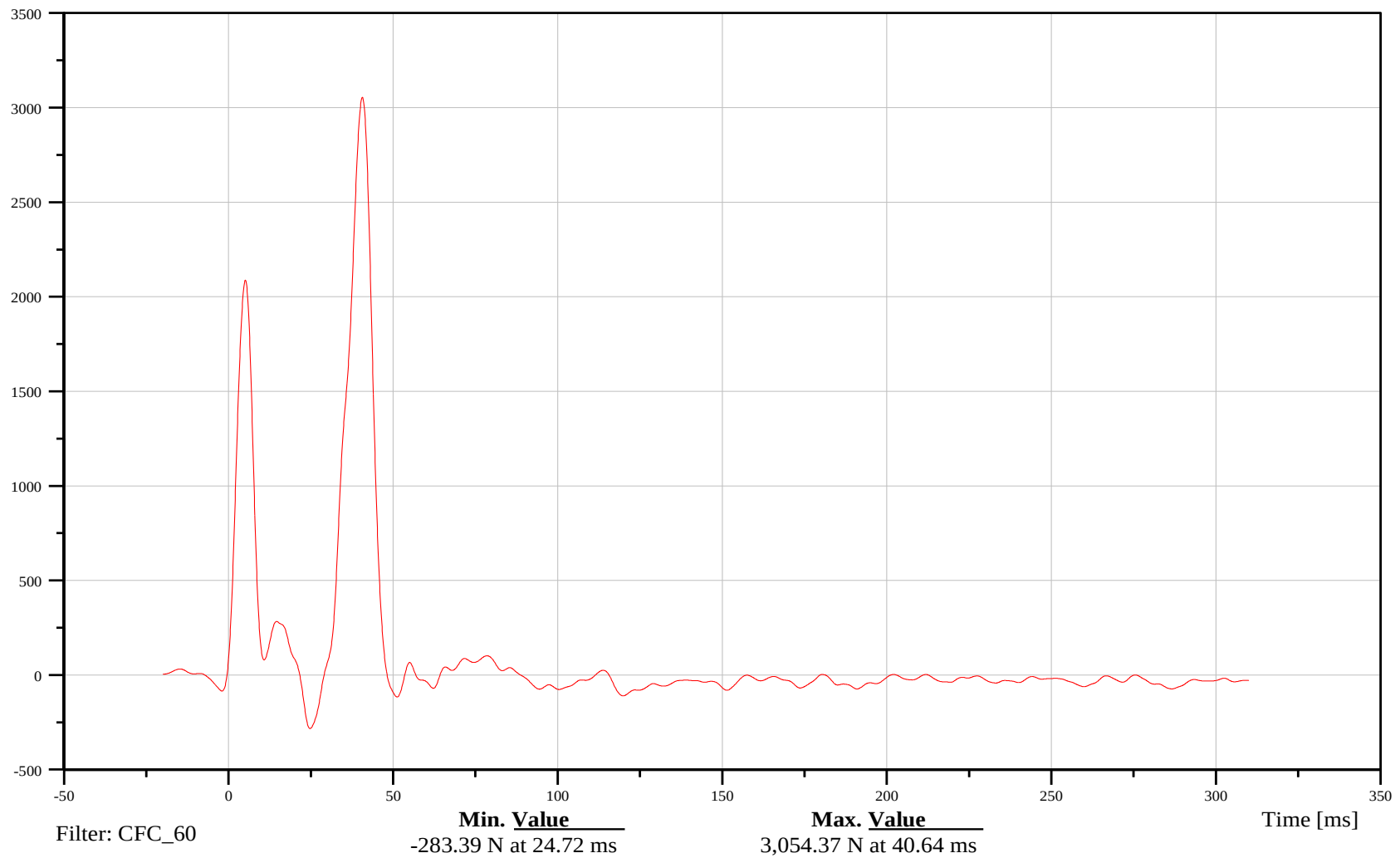
BARRIER 7-9 FX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070900FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

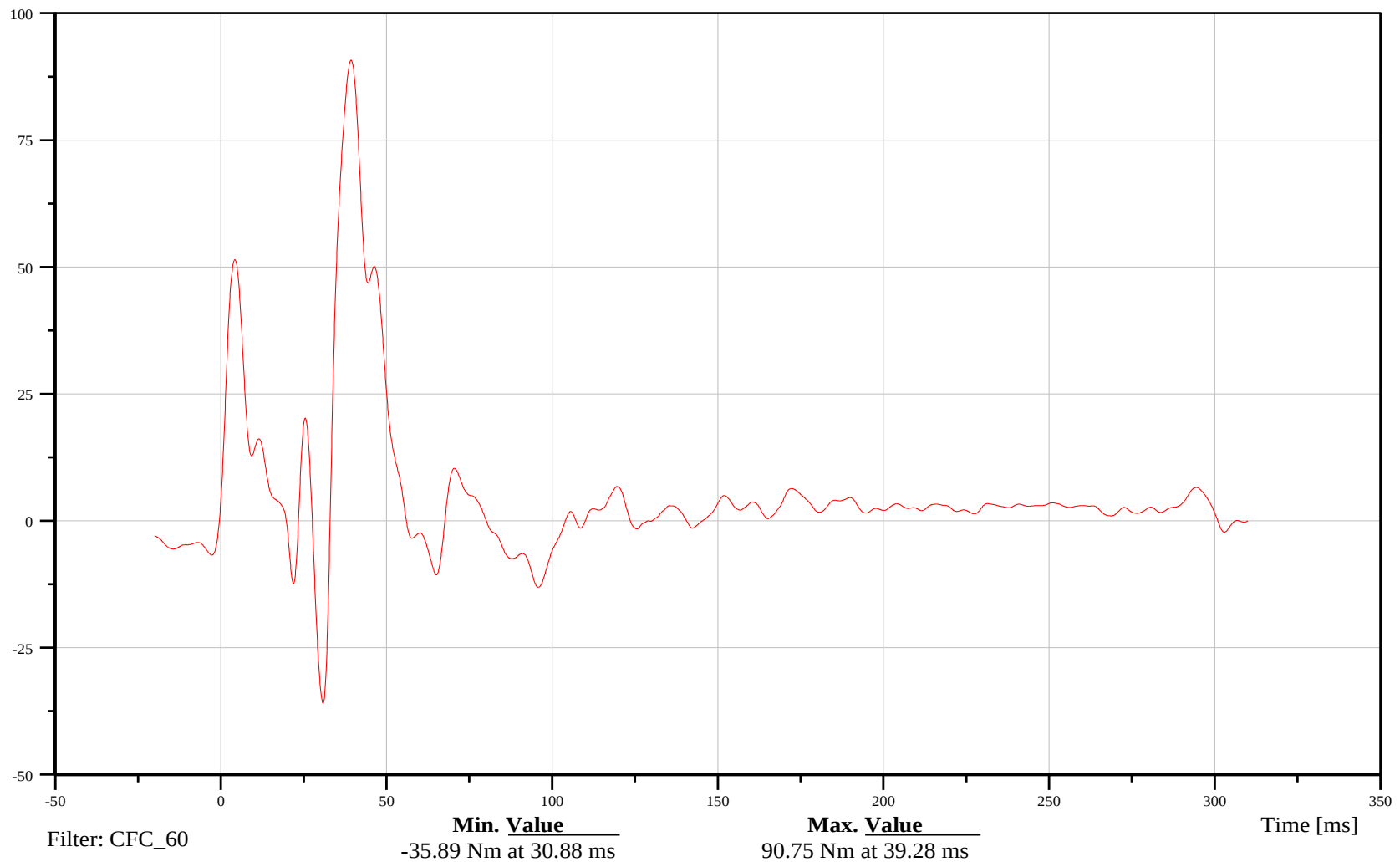
BARRIER 7-9 My

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070900MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

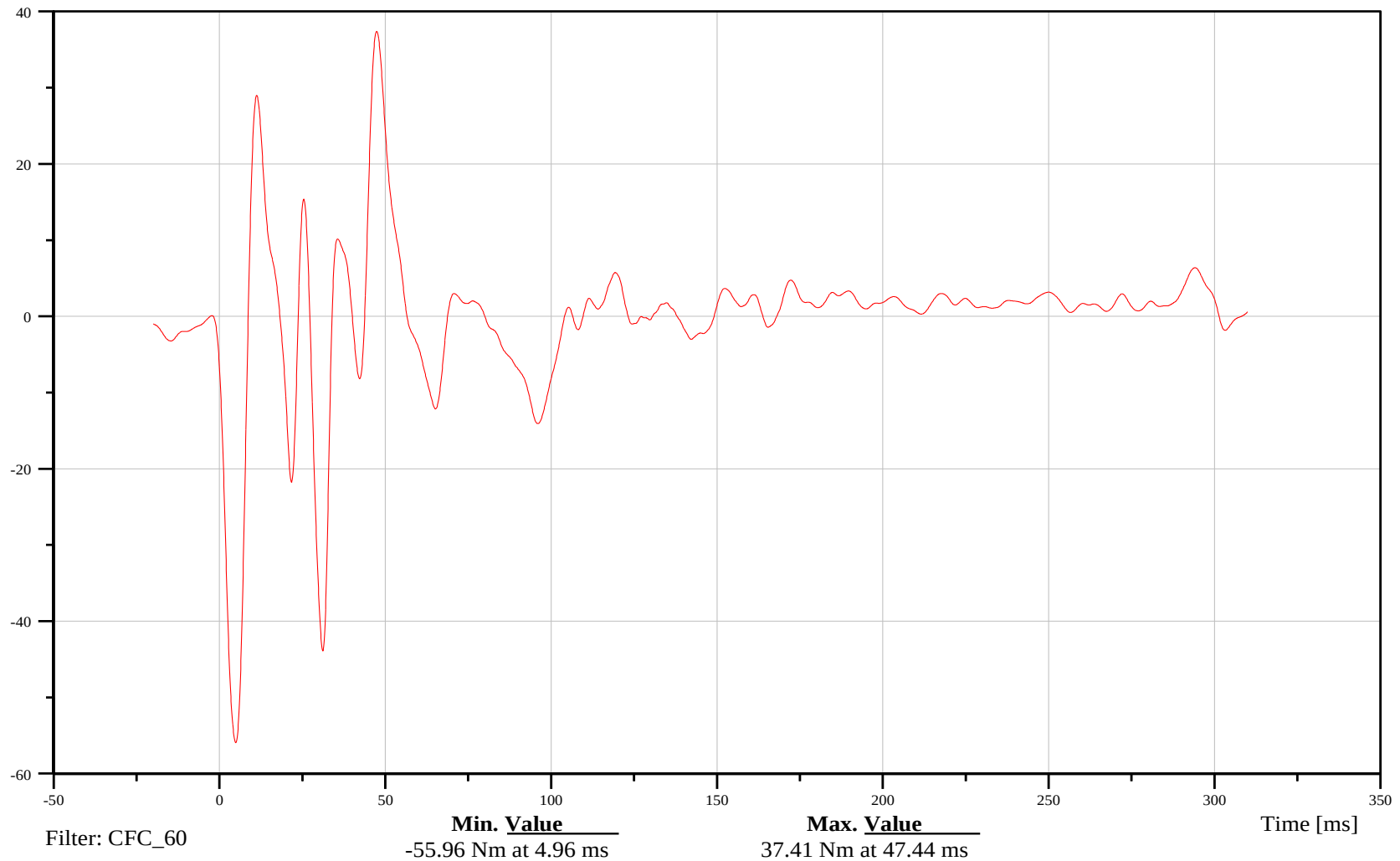
BARRIER 7-9 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR070900MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

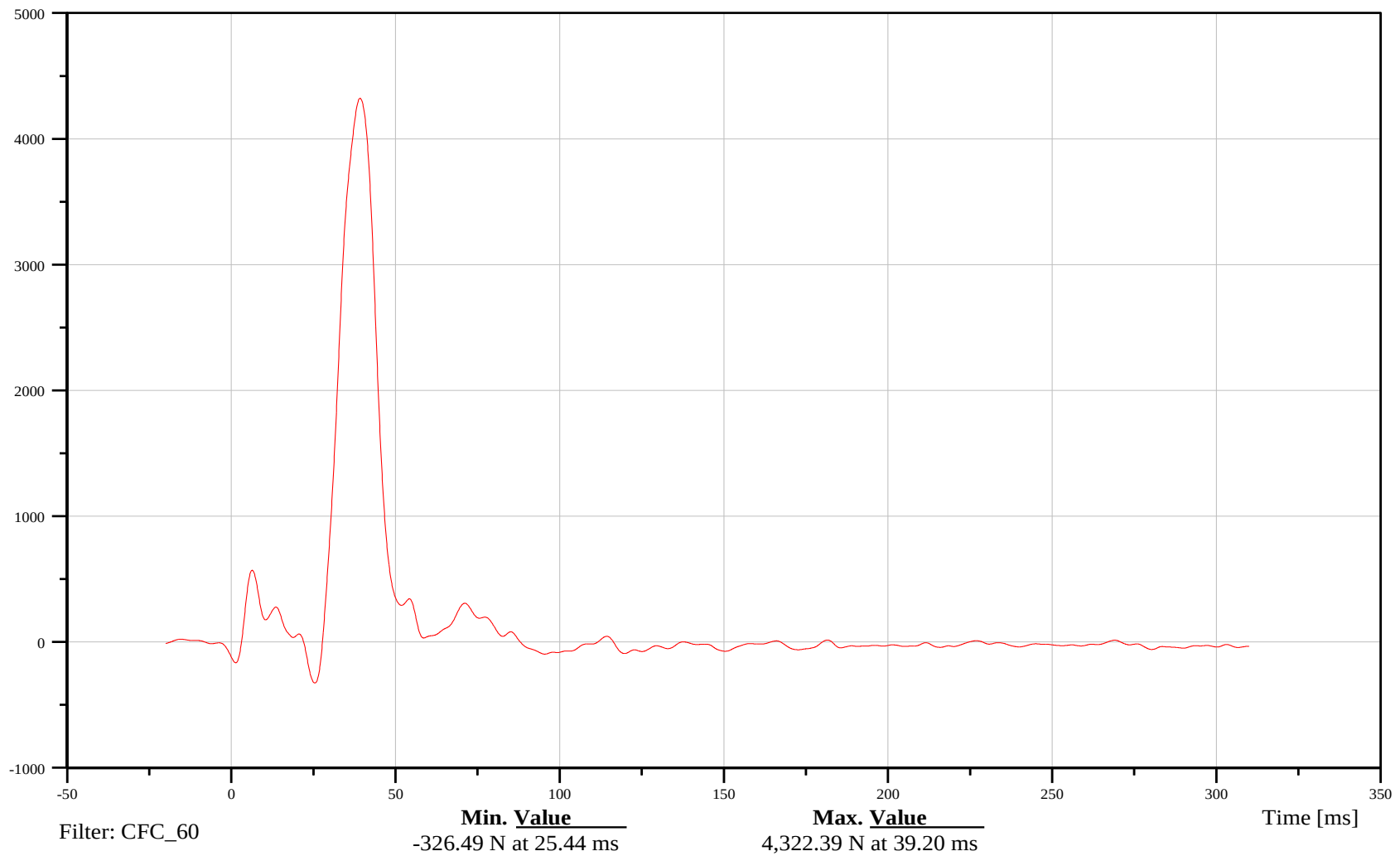
BARRIER 7-10 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR071000FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

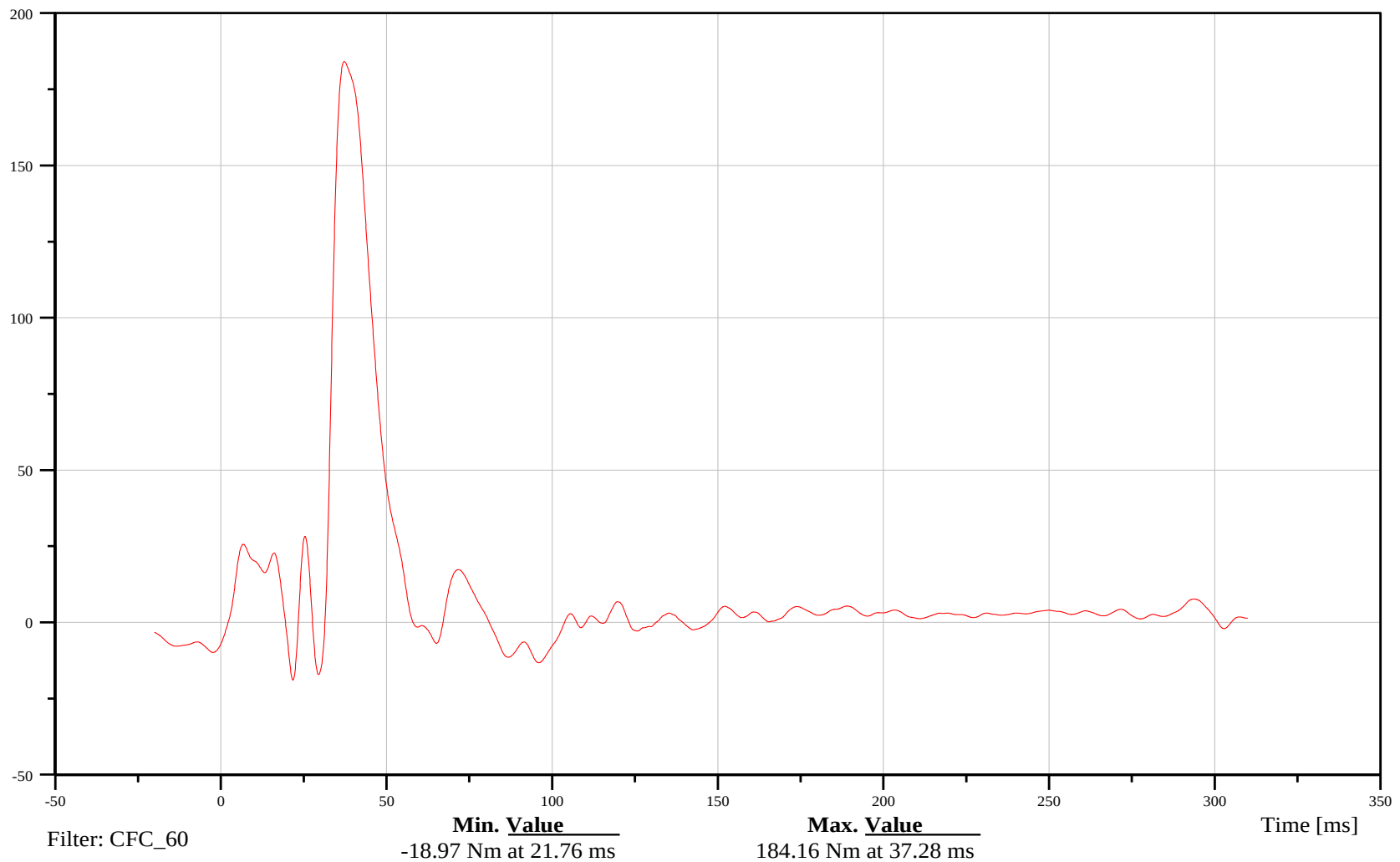
Date: 11/14/2013
Time: 15:28

BARRIER 7-10 My

Customer: VRTC
Test Number: 131114

B0FBAR071000MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

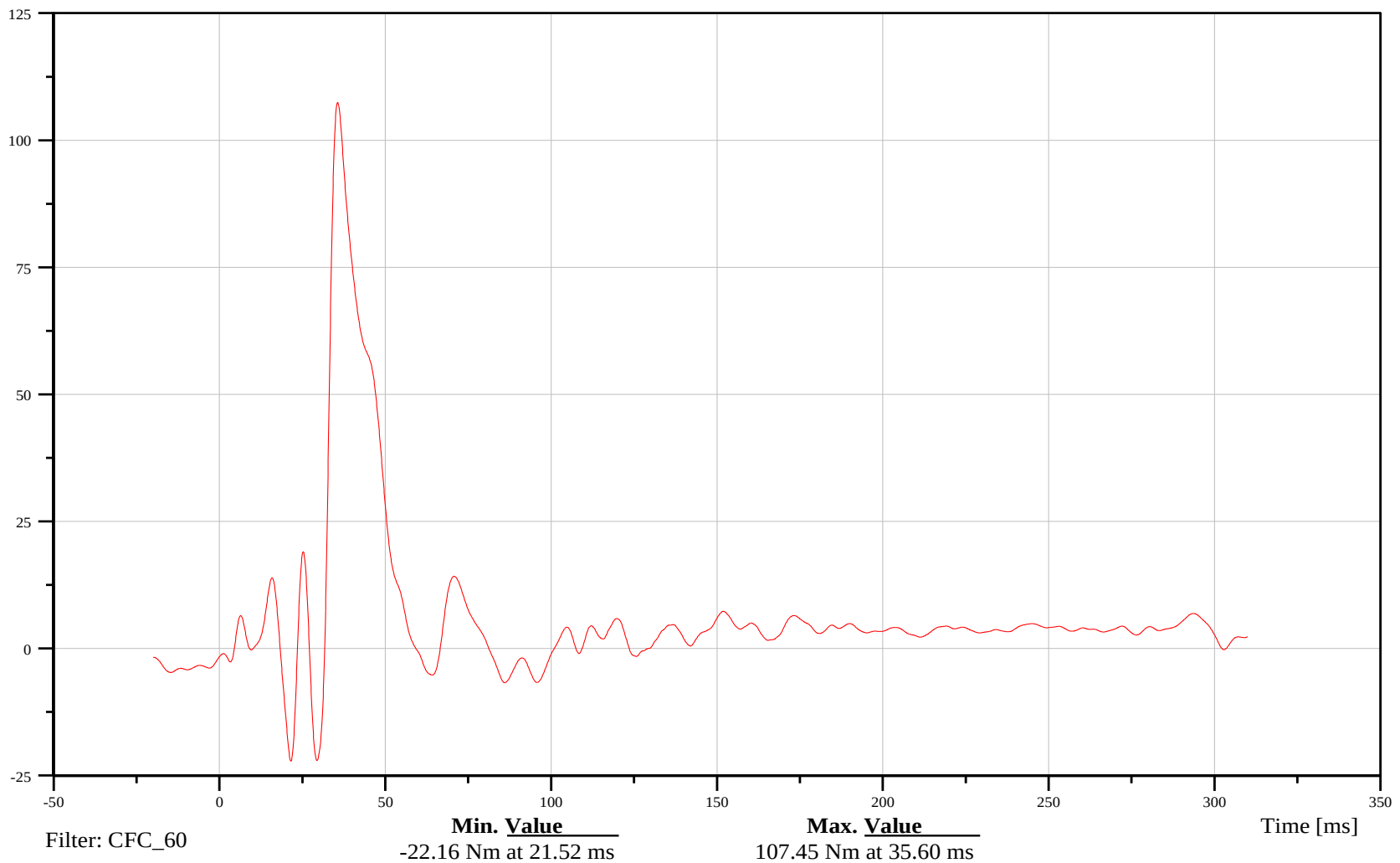
Date: 11/14/2013
Time: 15:28

BARRIER 7-10 Mz

Customer: VRTC
Test Number: 131114

B0FBAR071000MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

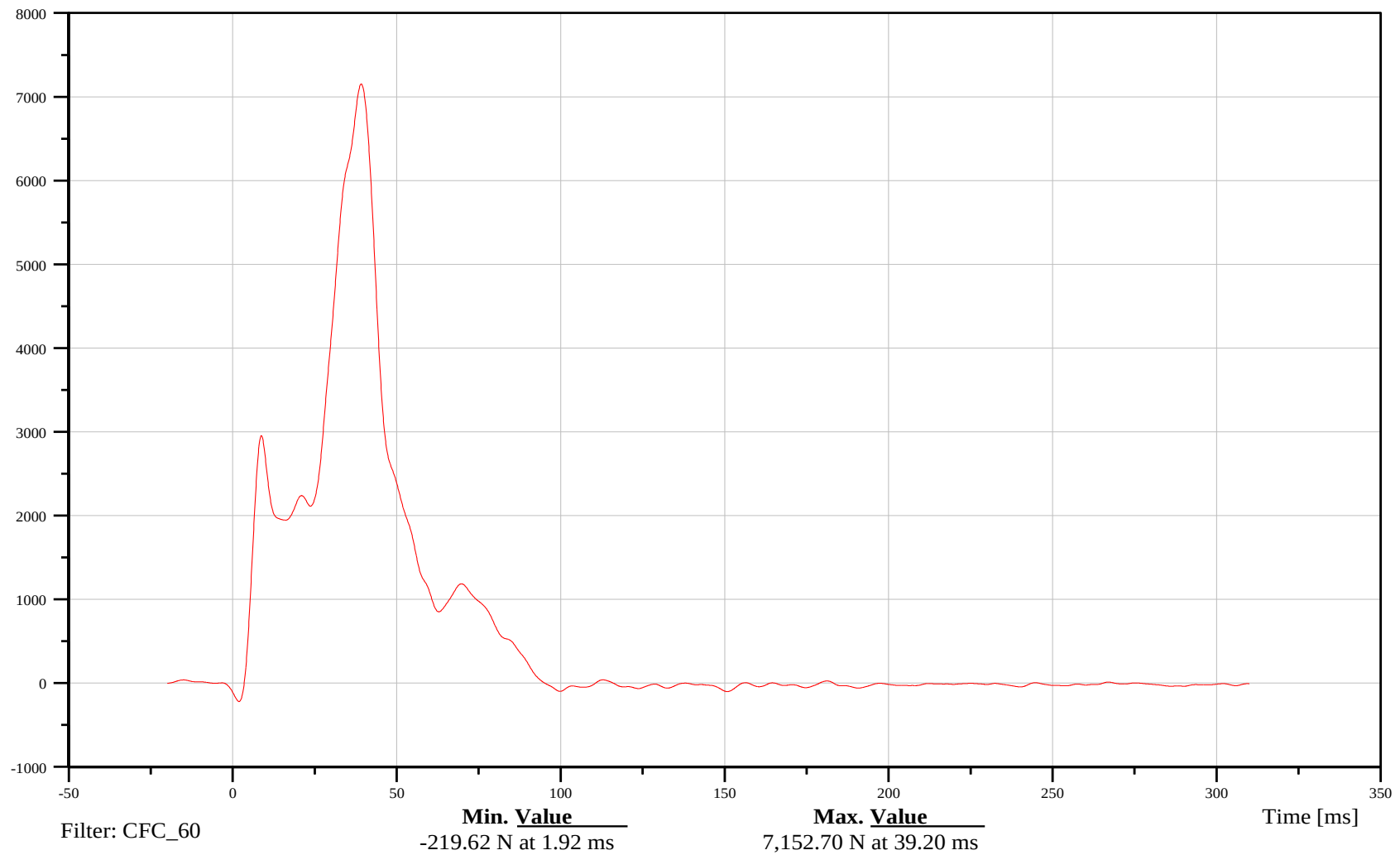
BARRIER 7-11 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR071100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

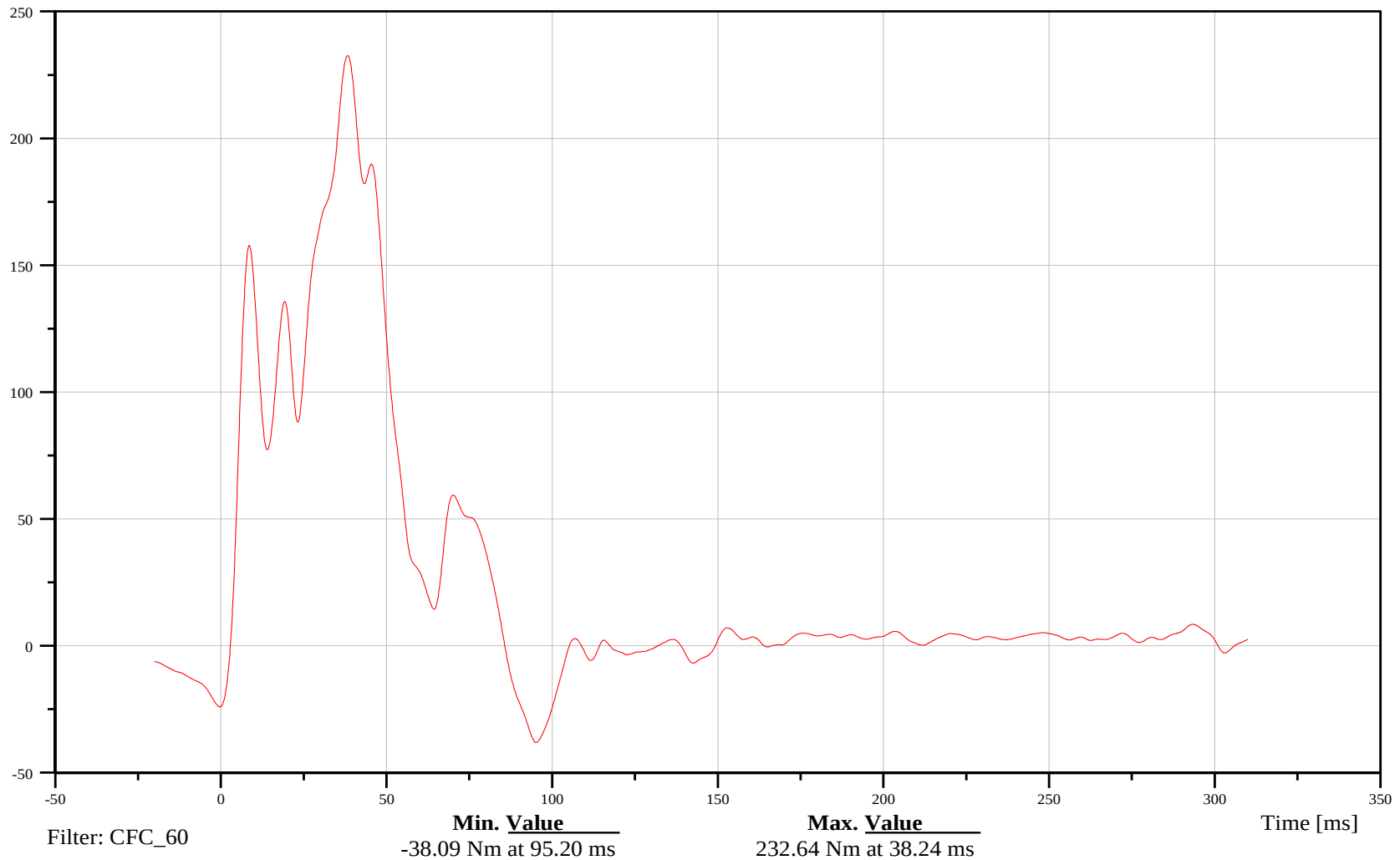
Date: 11/14/2013
Time: 15:28

BARRIER 7-11 My

Customer: VRTC
Test Number: 131114

B0FBAR071100MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

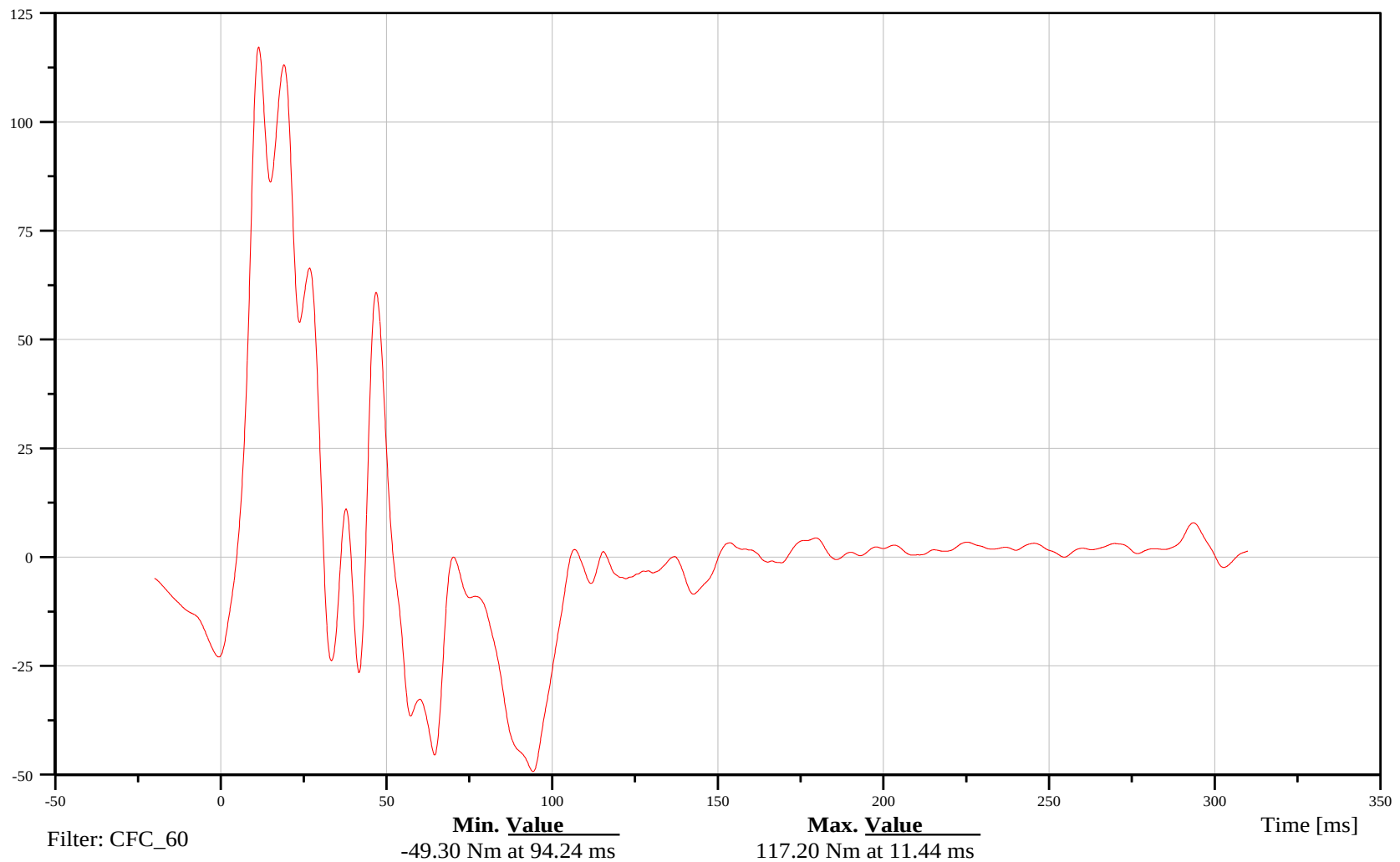
Date: 11/14/2013
Time: 15:28

BARRIER 7-11 Mz

Customer: VRTC
Test Number: 131114

B0FBAR071100MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

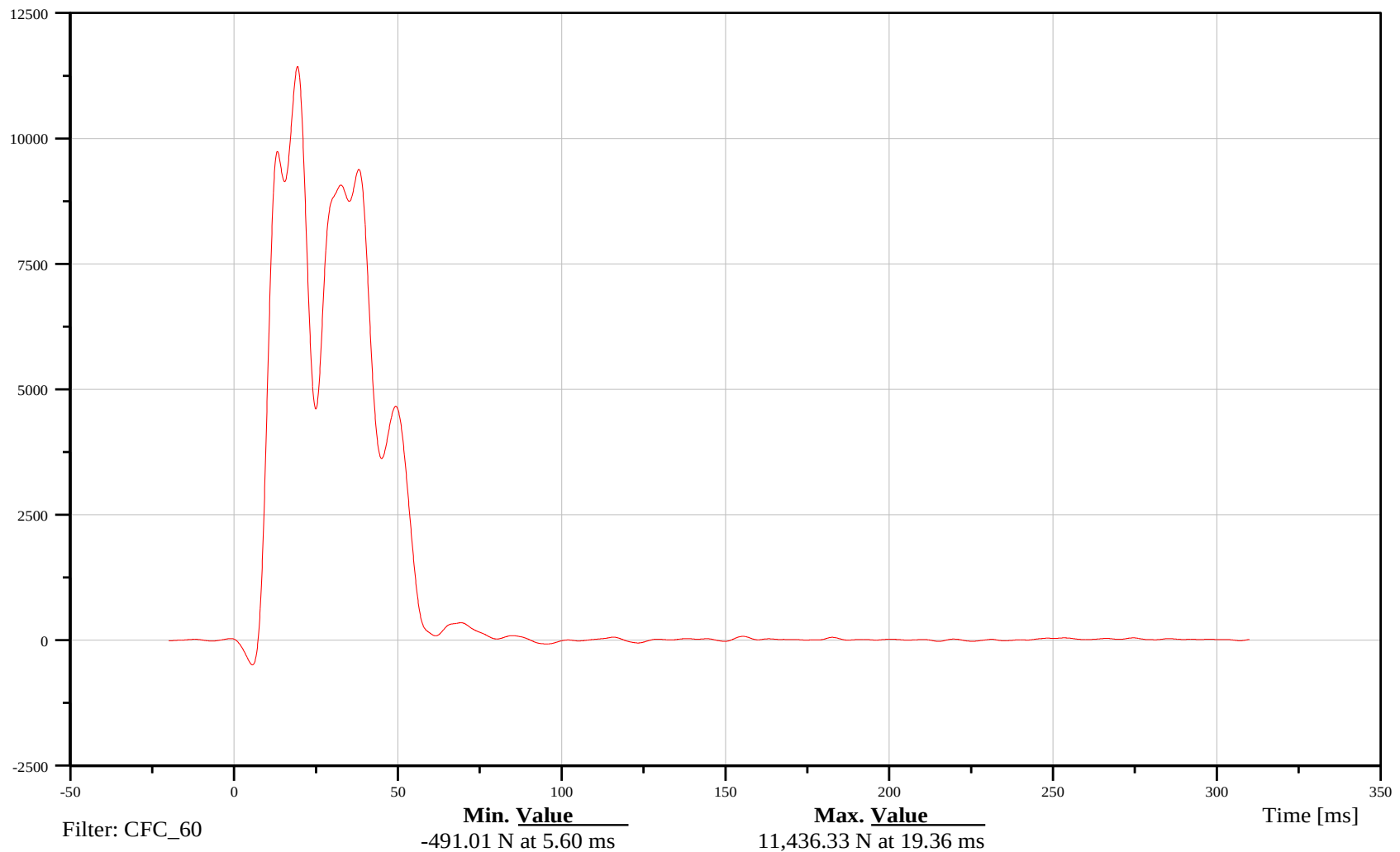
BARRIER 7-12 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR071200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

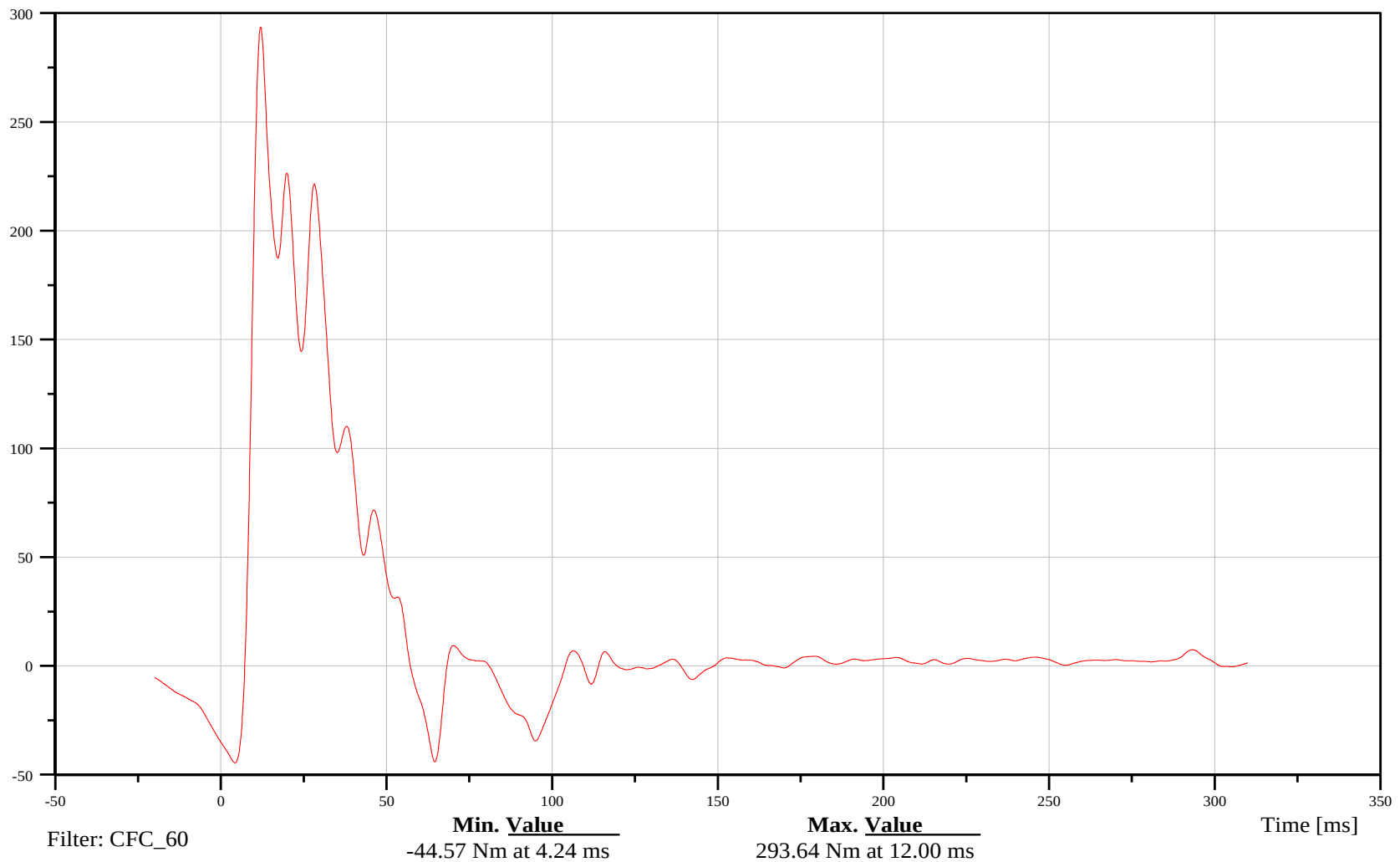
Date: 11/14/2013
Time: 15:28

BARRIER 7-12 My

Customer: VRTC
Test Number: 131114

B0FBAR071200MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

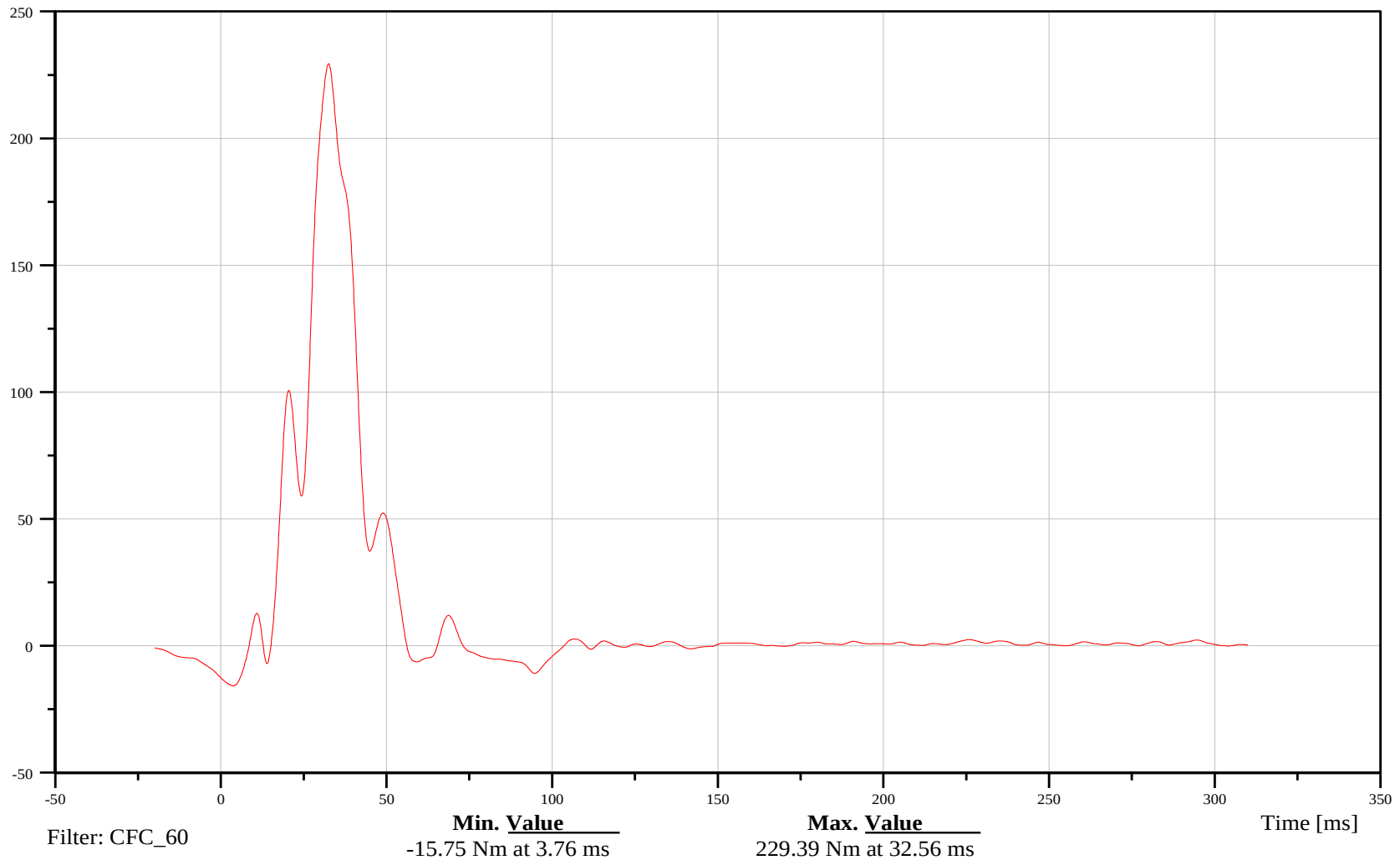
BARRIER 7-12 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR071200MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

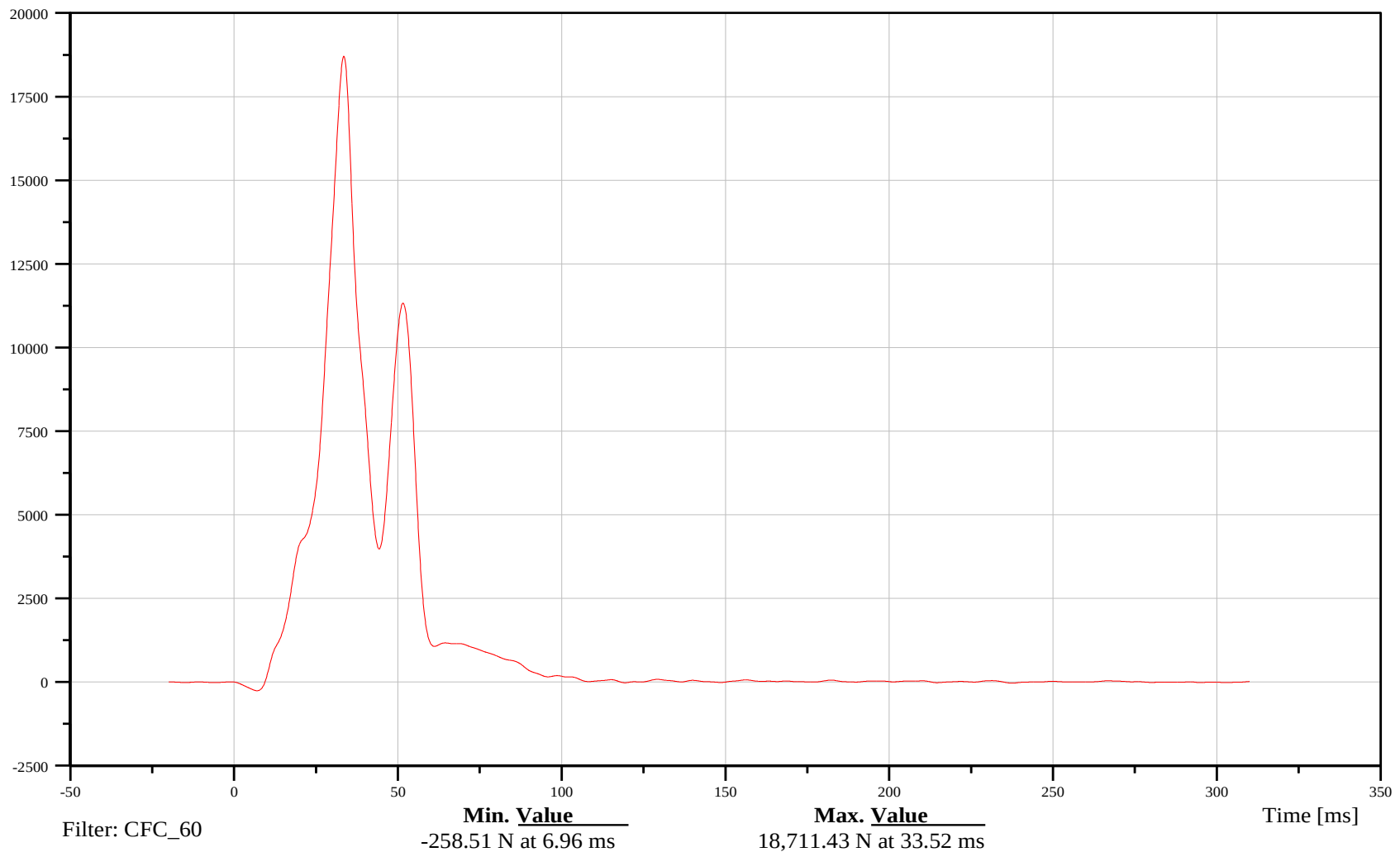
BARRIER 7-13 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR071300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

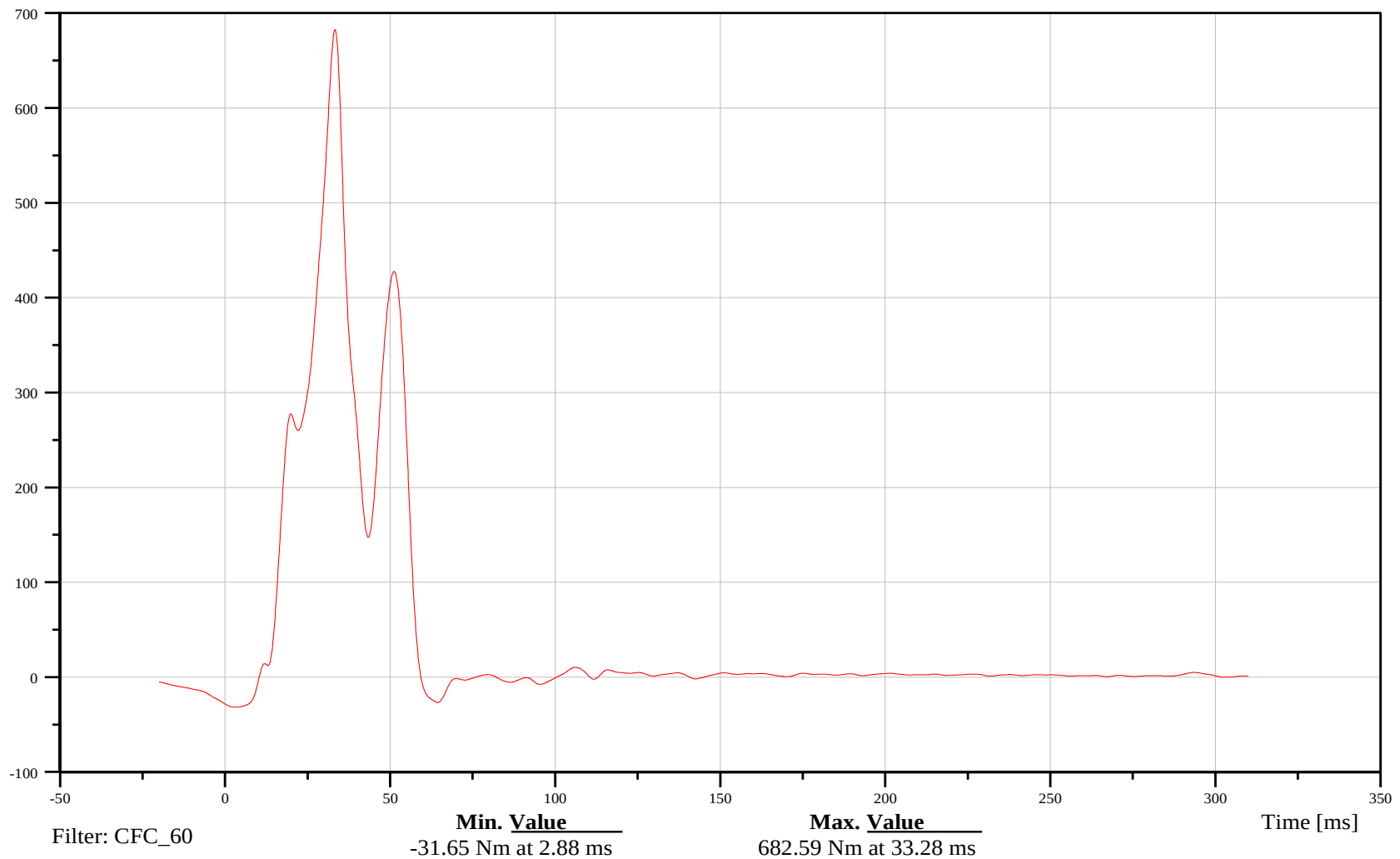
Date: 11/14/2013
Time: 15:28

BARRIER 7-13 My

Customer: VRTC
Test Number: 131114

B0FBAR071300MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

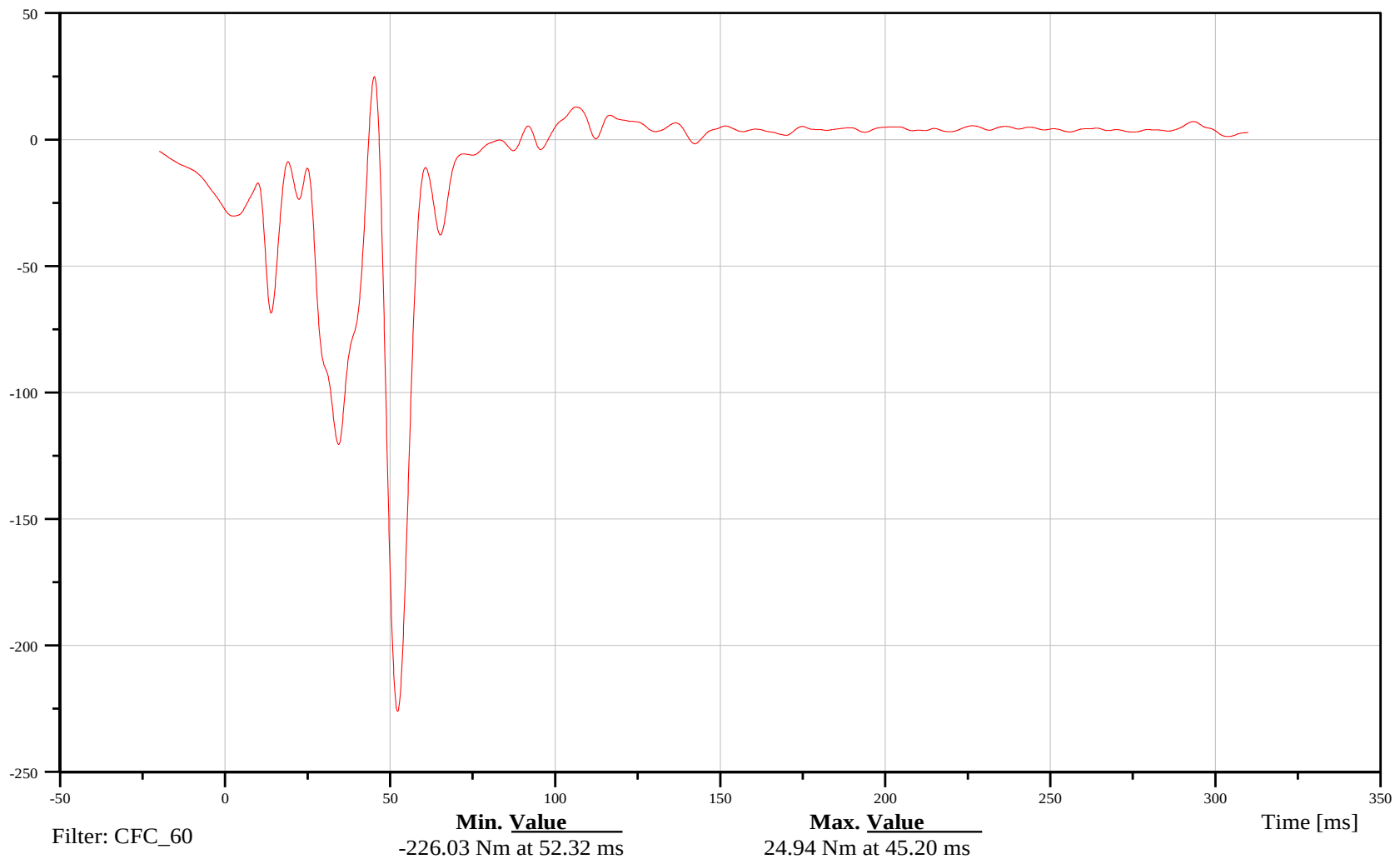
BARRIER 7-13 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR071300MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

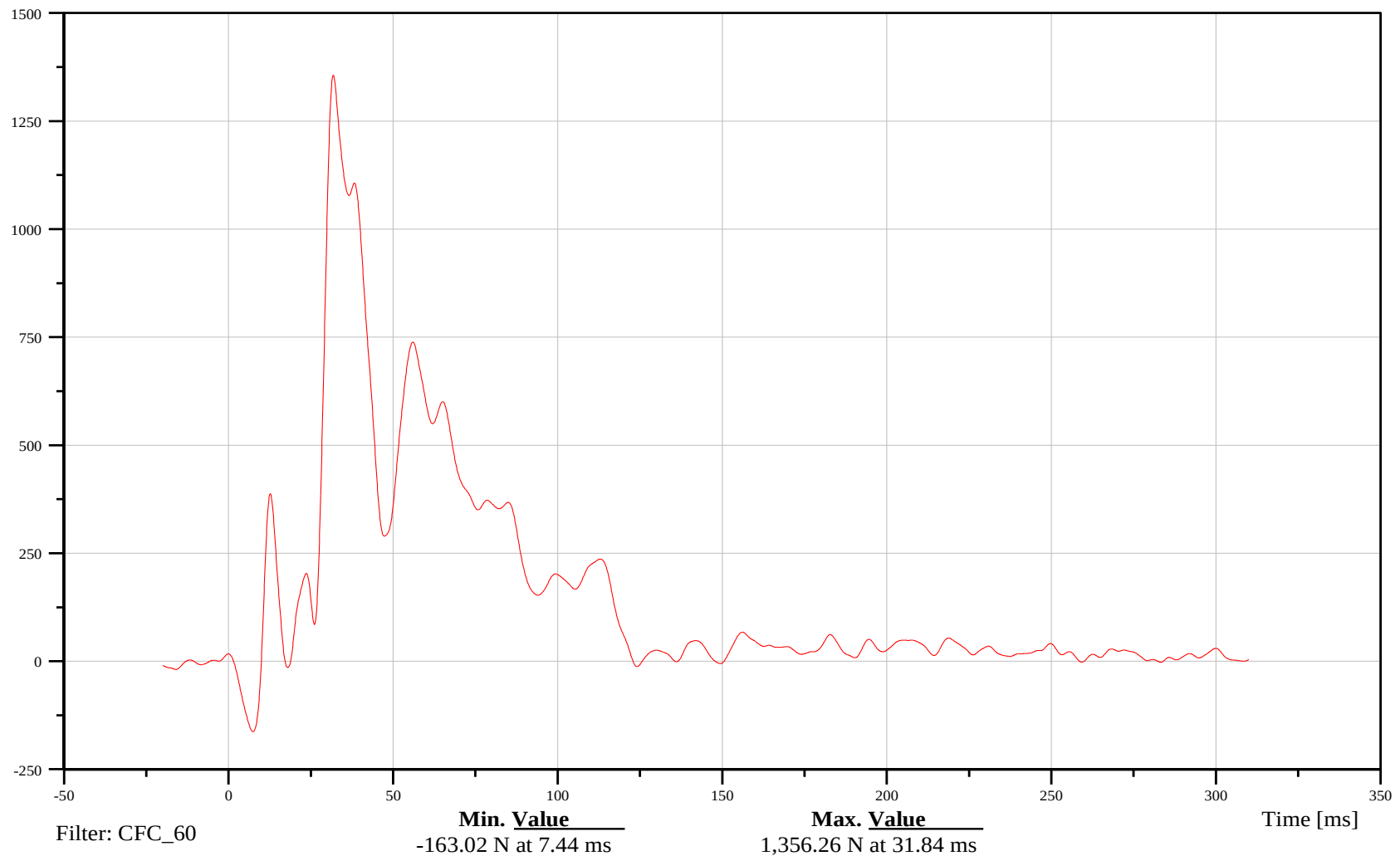
BARRIER 7-14 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR071400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

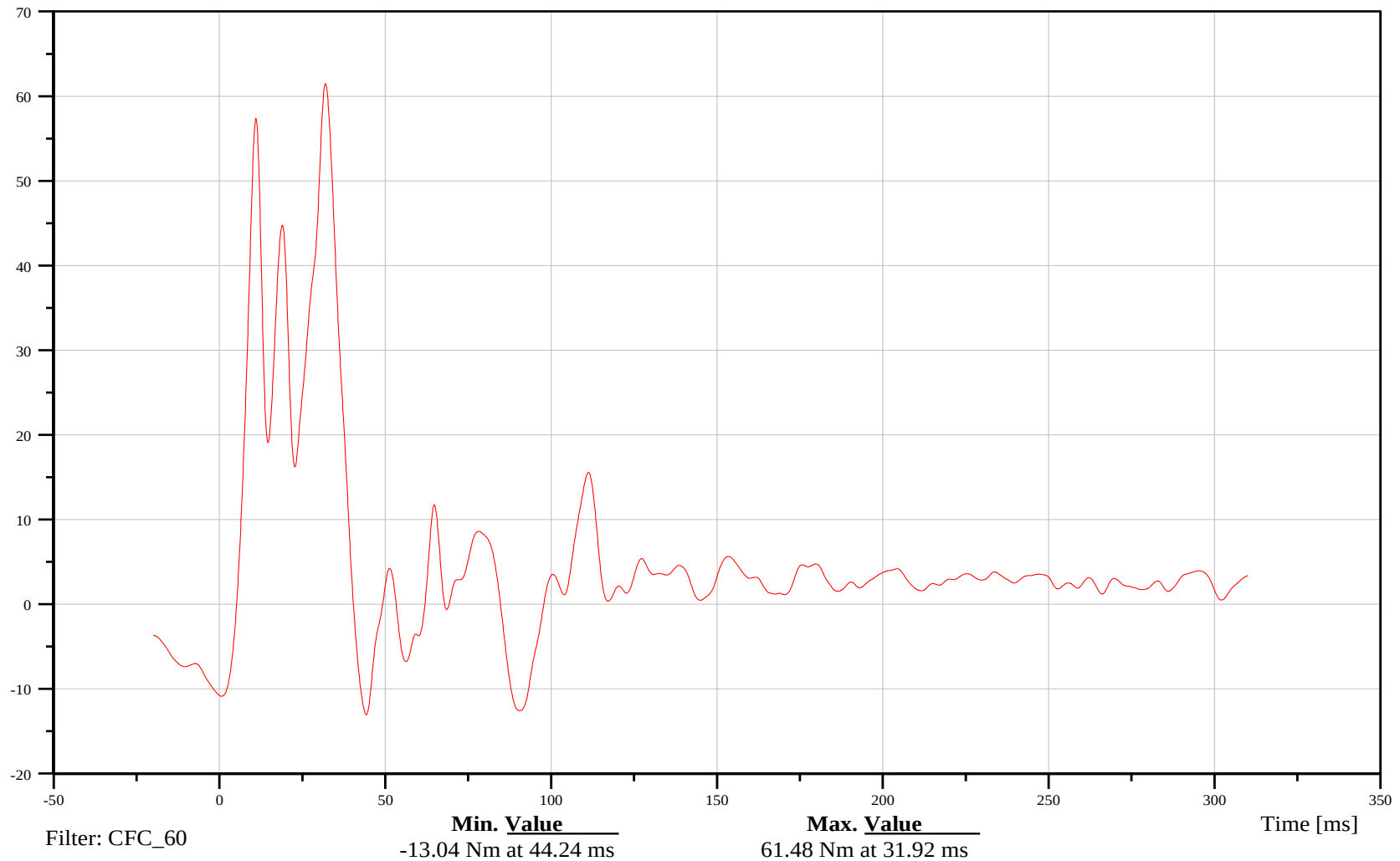
Date: 11/14/2013
Time: 15:28

BARRIER 7-14 My

Customer: VRTC
Test Number: 131114

B0FBAR071400MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

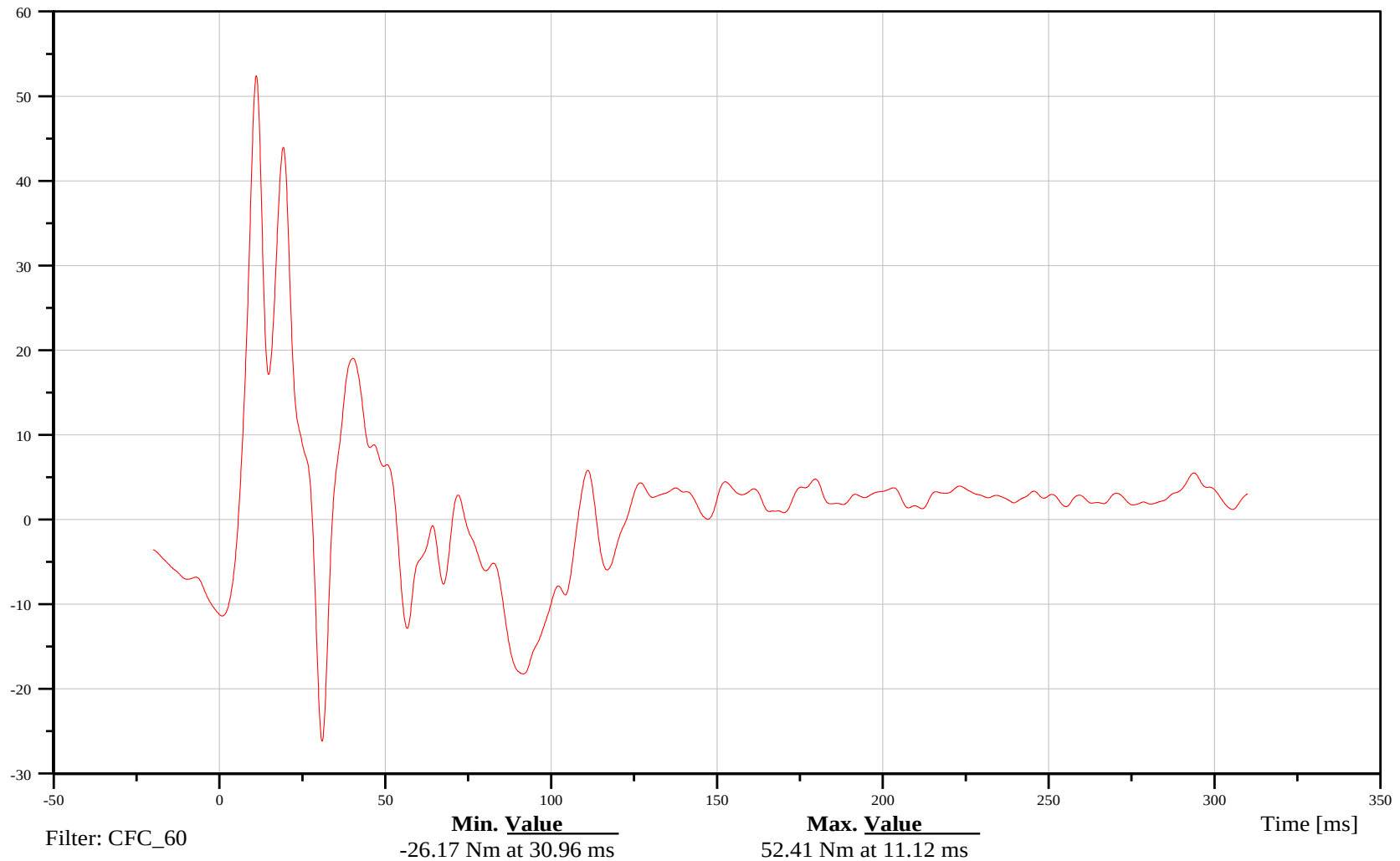
BARRIER 7-14 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR071400MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

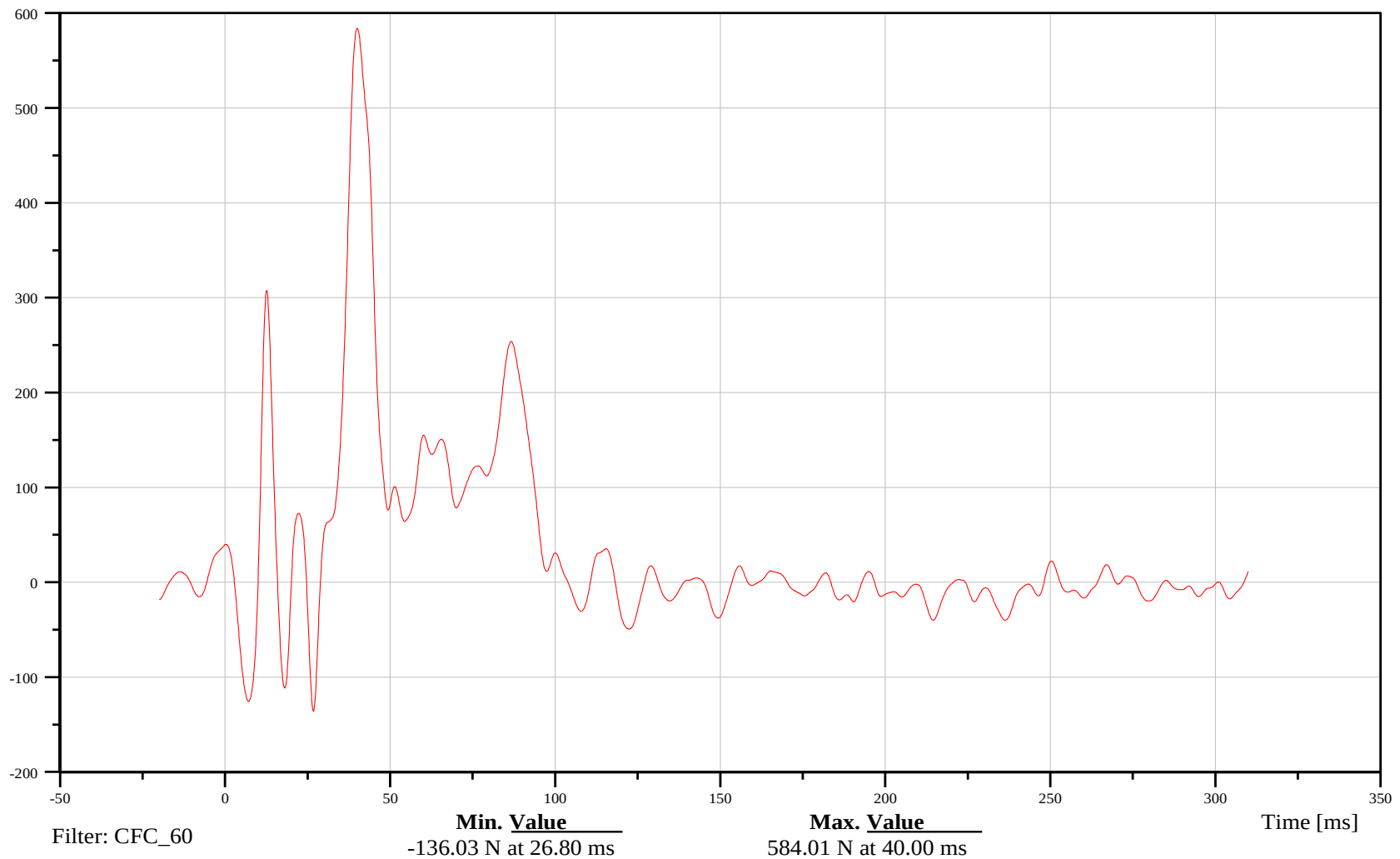
BARRIER 7-15 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR071500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

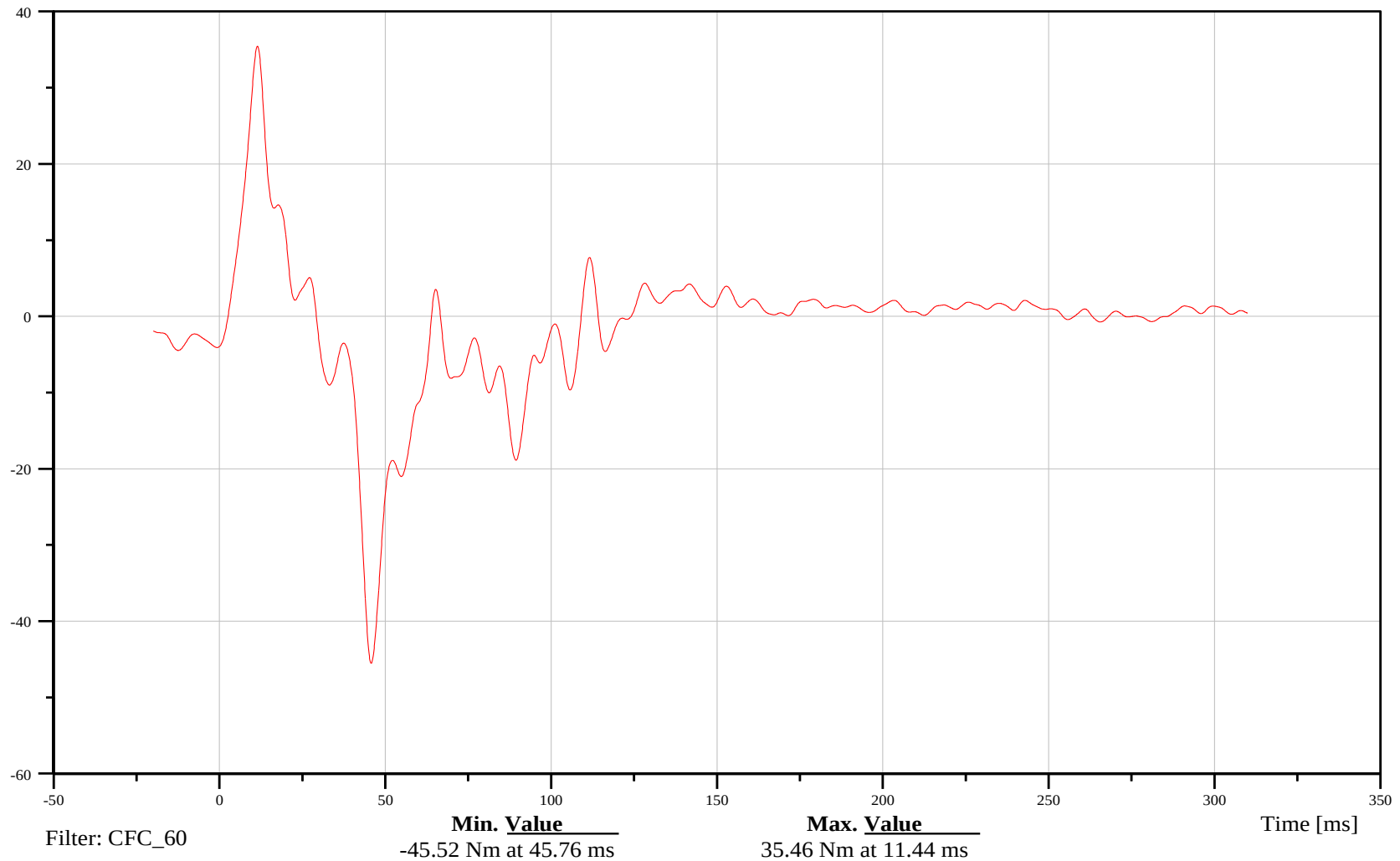
BARRIER 7-15 My

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR071500MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

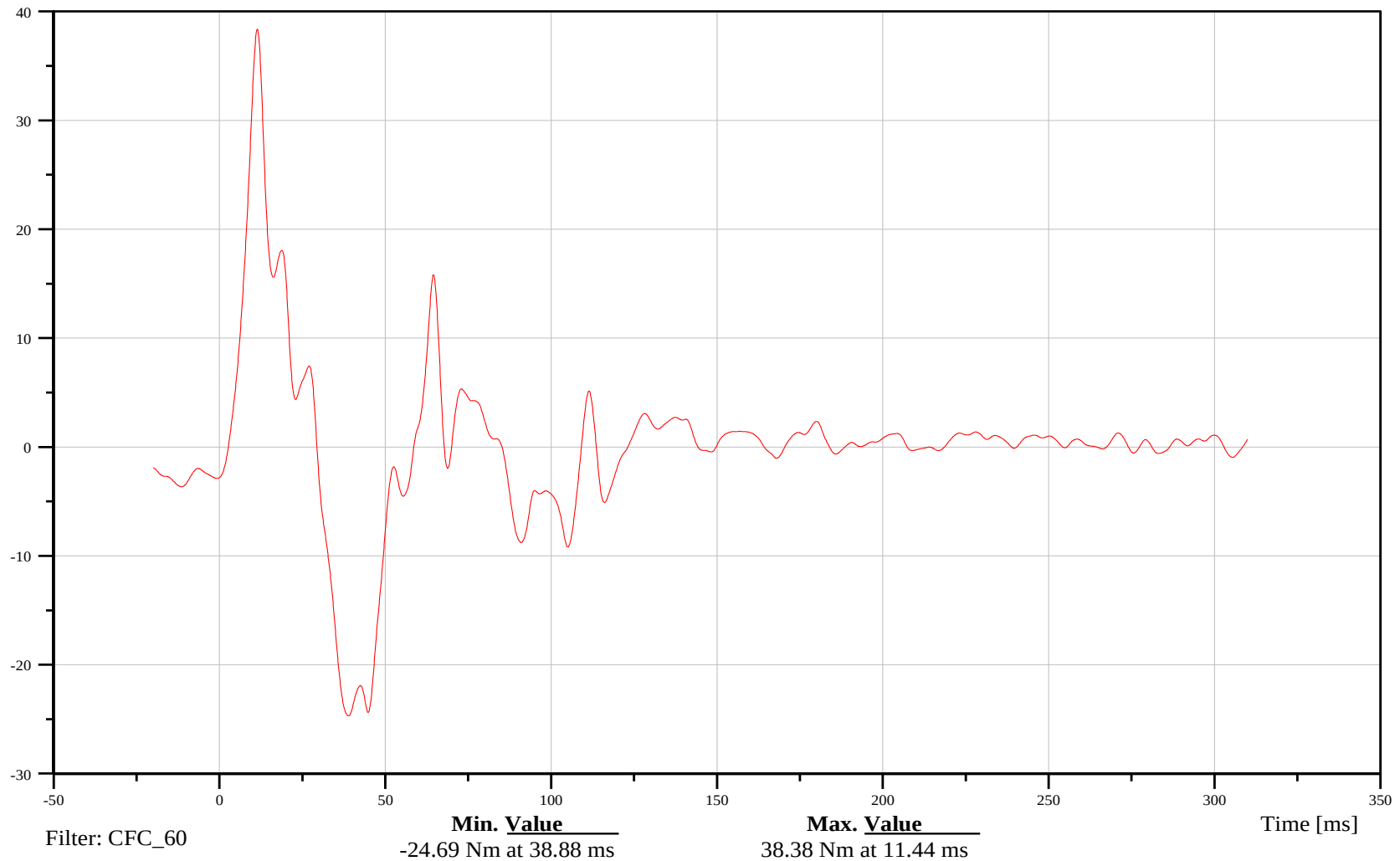
BARRIER 7-15 Mz

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR071500MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

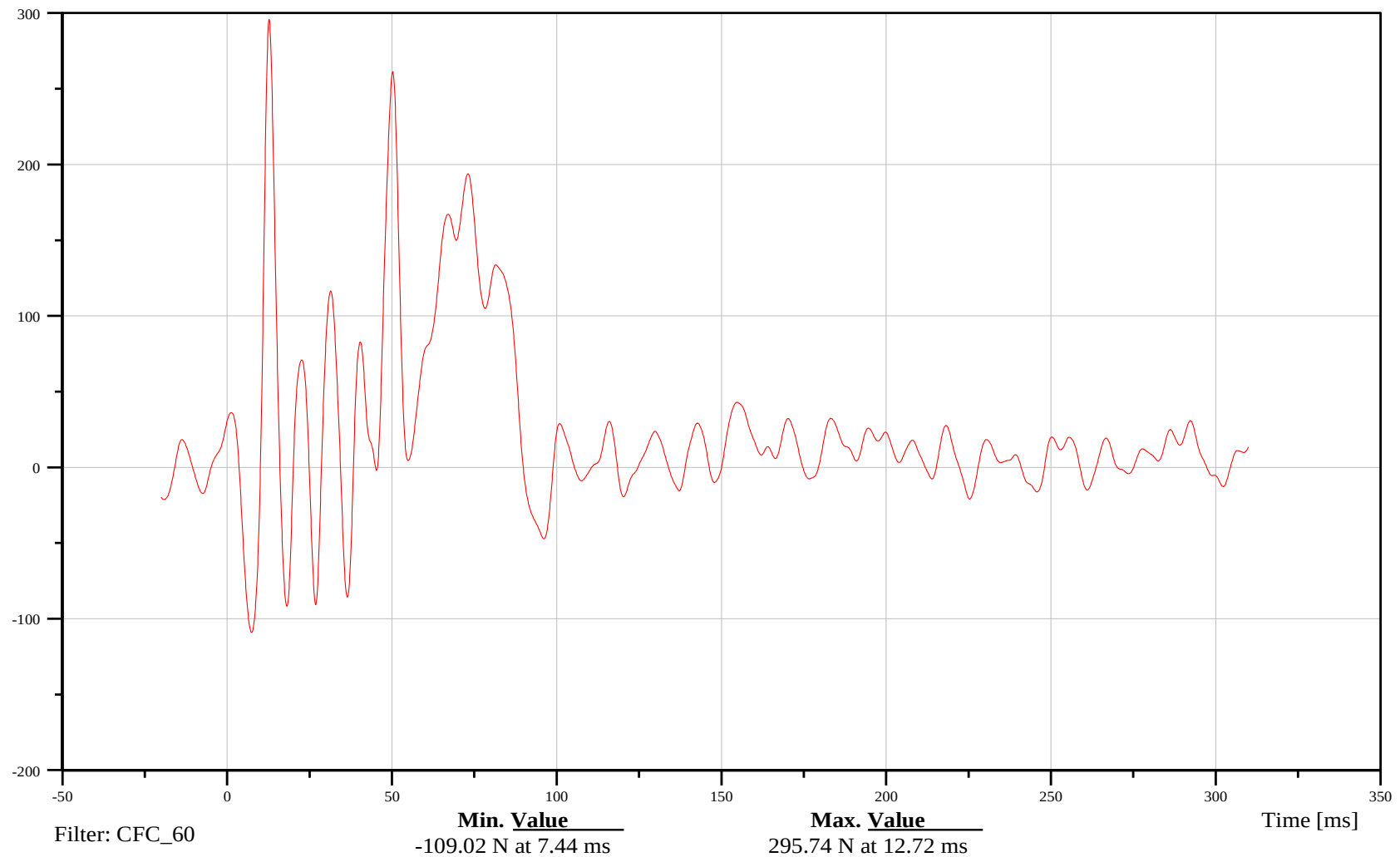
BARRIER 7-16 EX

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR071600FOX D

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

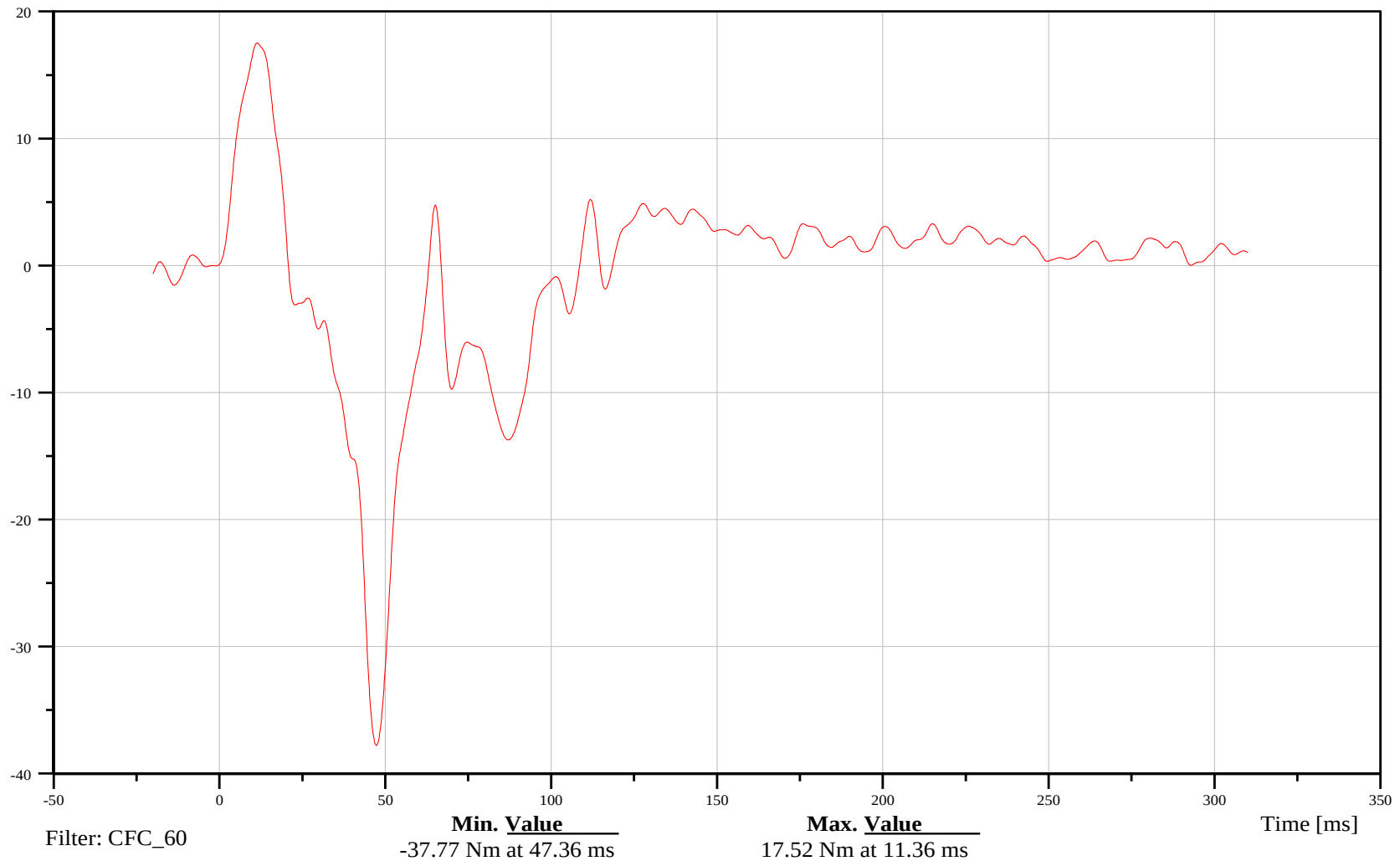
Date: 11/14/2013
Time: 15:28

BARRIER 7-16 My

Customer: VRTC
Test Number: 131114

B0FBAR071600MOYD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

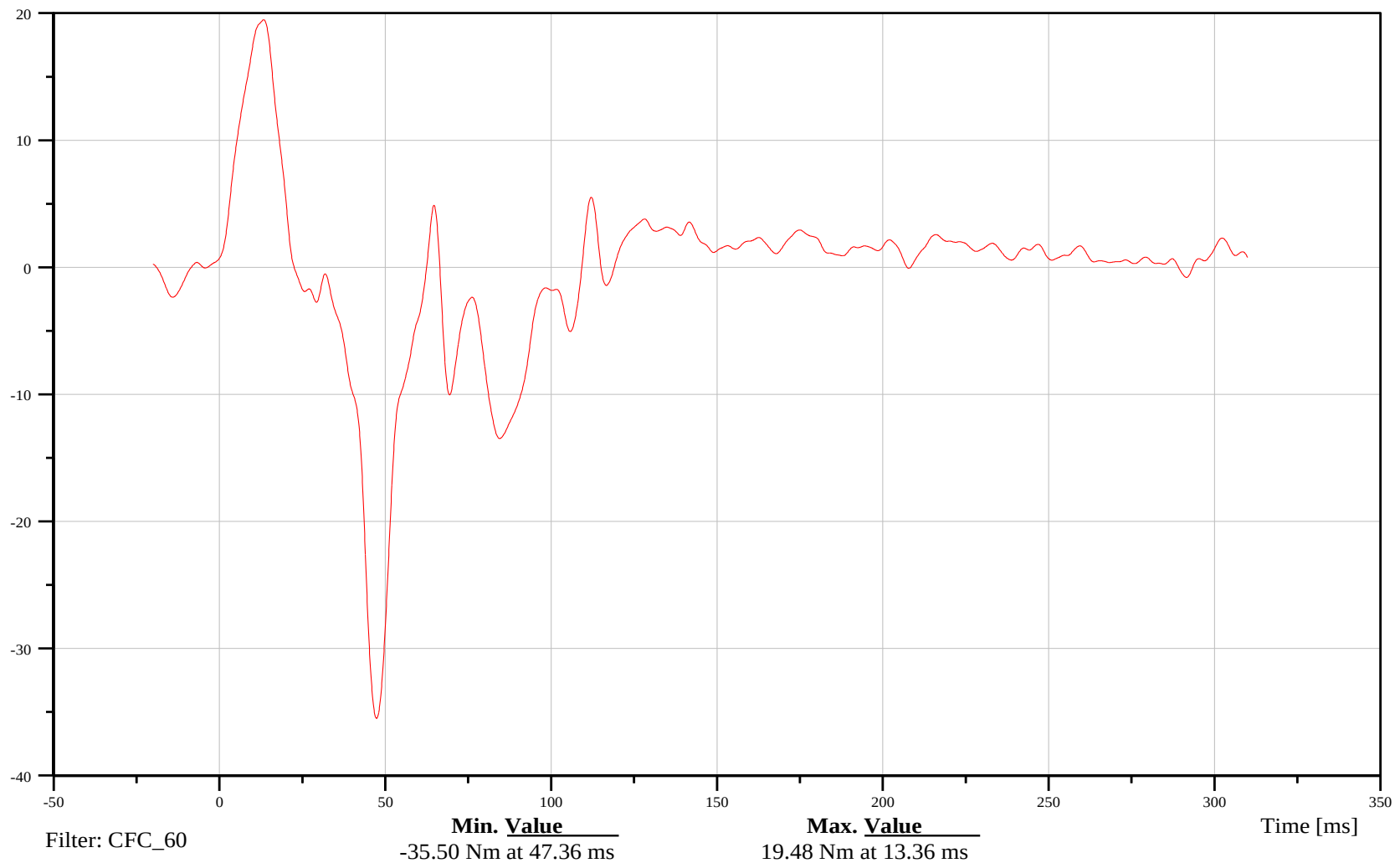
Date: 11/14/2013
Time: 15:28

BARRIER 7-16 Mz

Customer: VRTC
Test Number: 131114

B0FBAR071600MOZD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

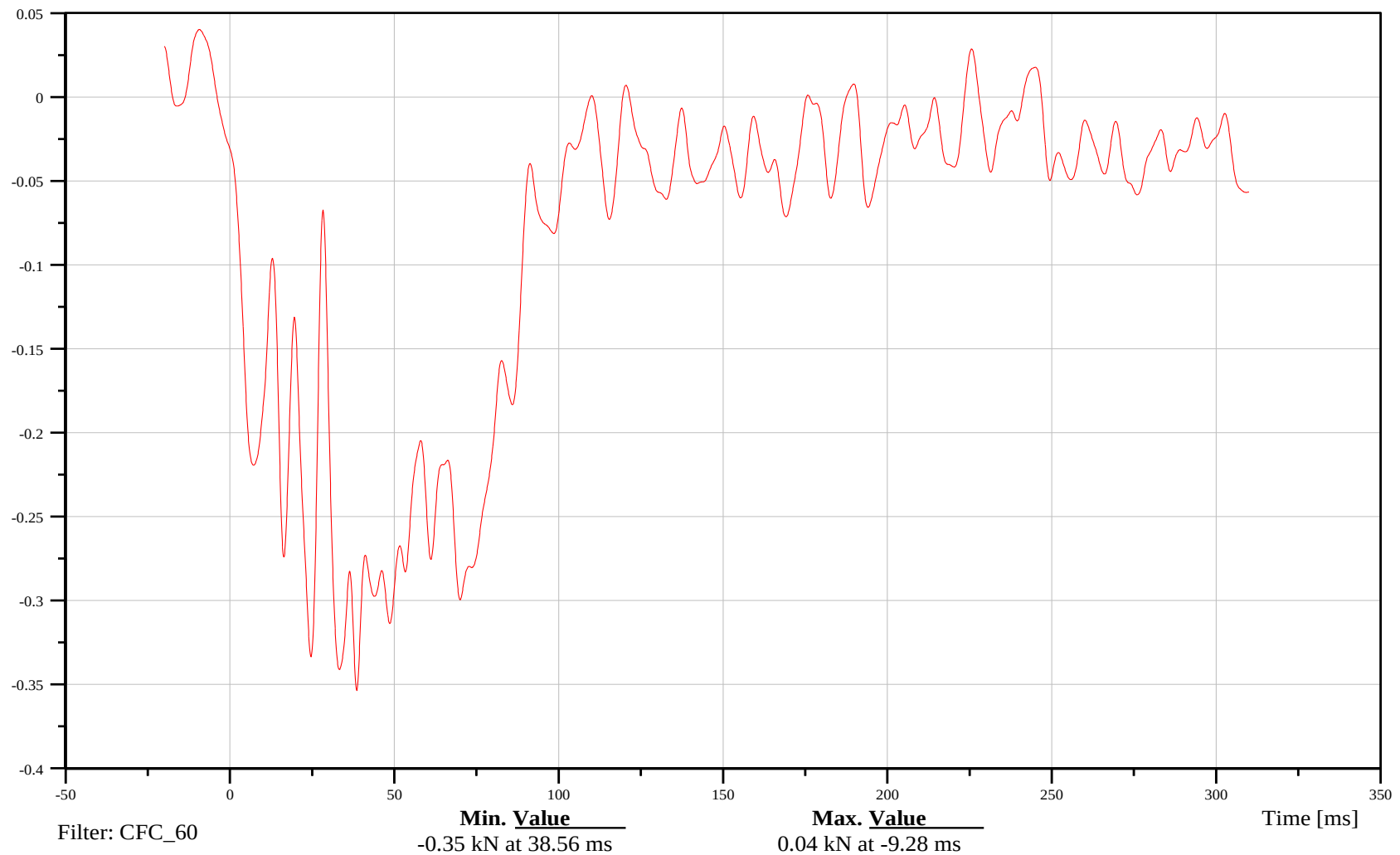
Date: 11/14/2013
Time: 15:28

BARRIER 4-1

Customer: VRTC
Test Number: 131114

B0FBAR040100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

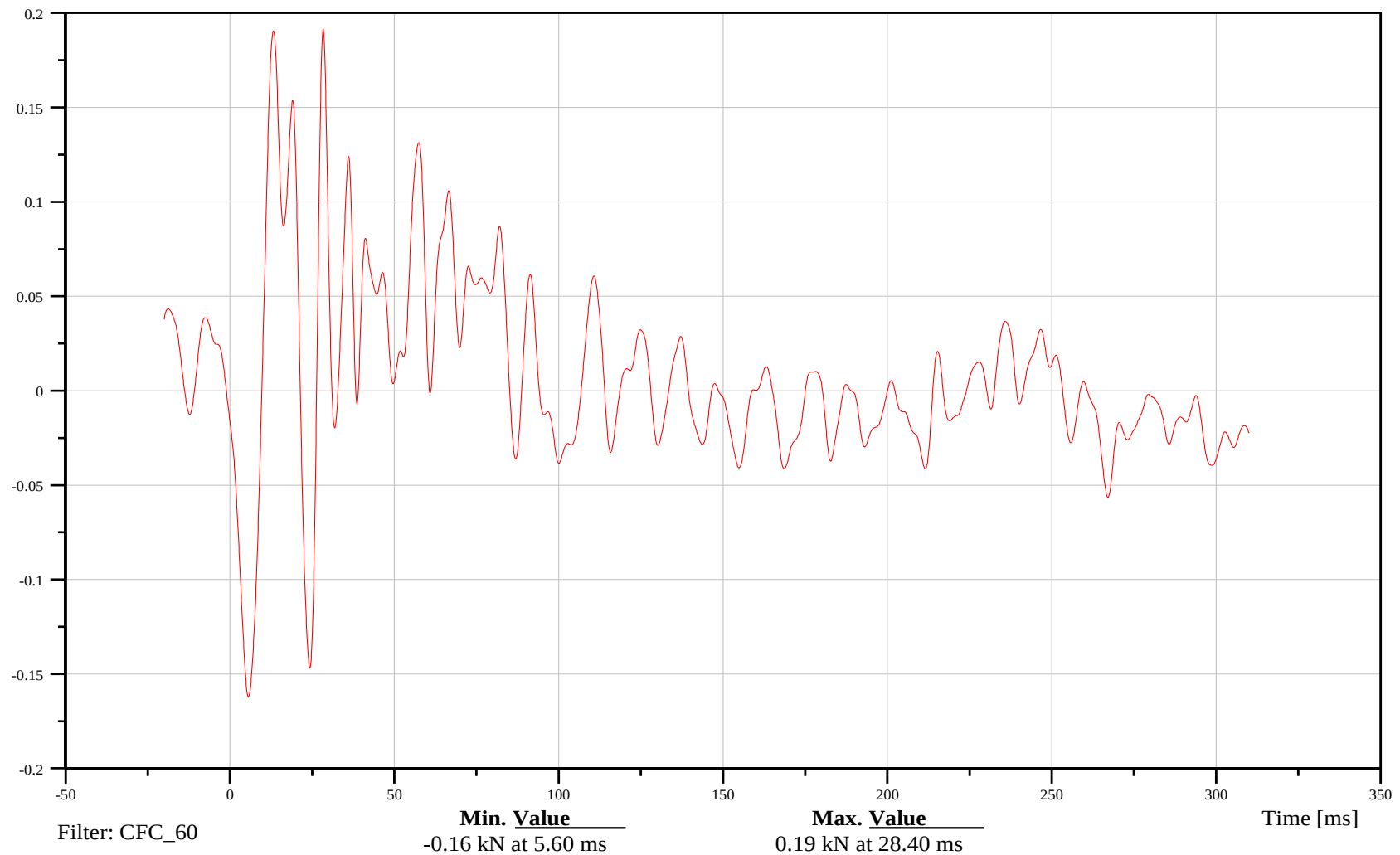
Date: 11/14/2013
Time: 15:28

BARRIER 4-2

Customer: VRTC
Test Number: 131114

B0FBAR040200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

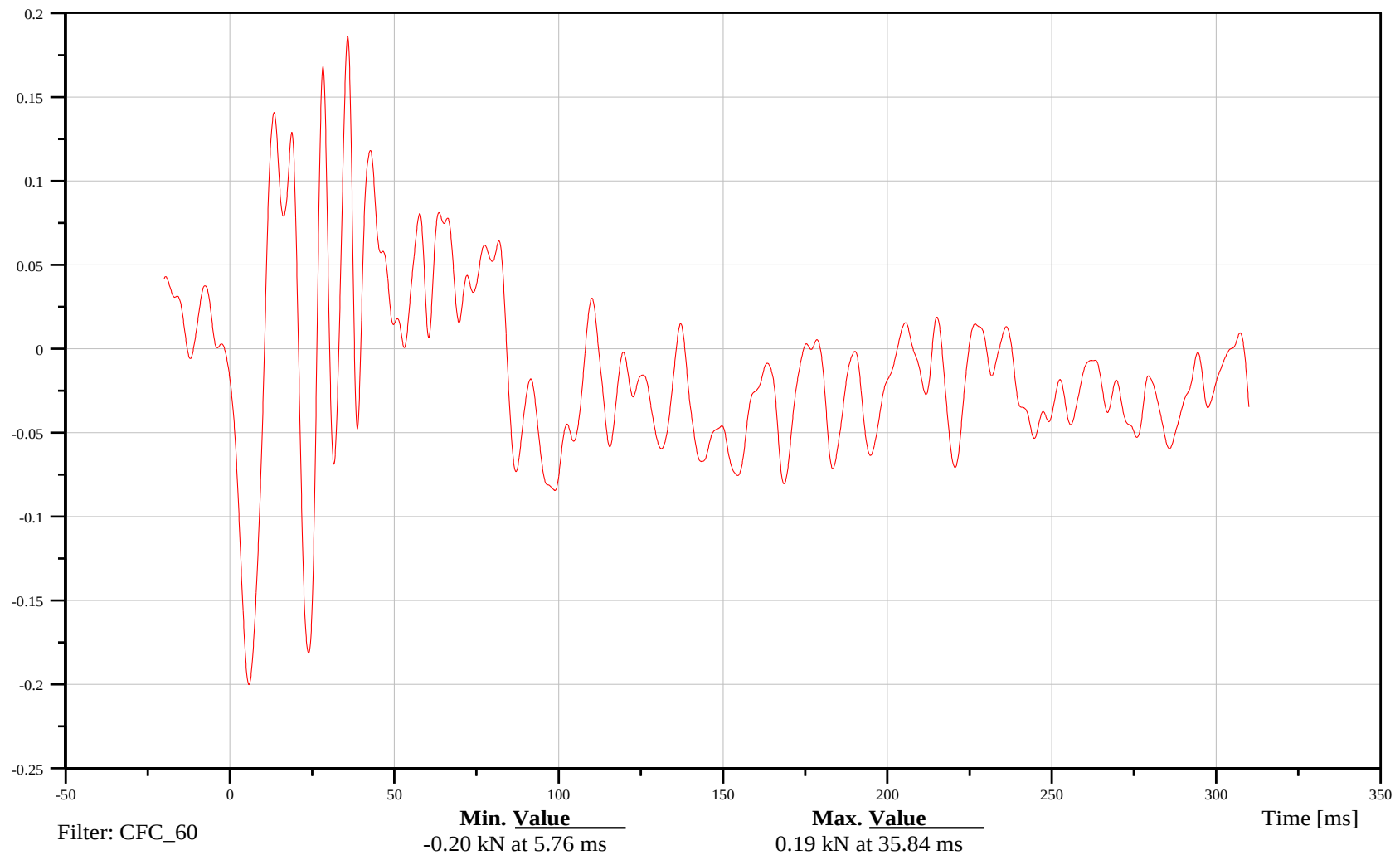
Date: 11/14/2013
Time: 15:28

BARRIER 4-3

Customer: VRTC
Test Number: 131114

B0FBAR040300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

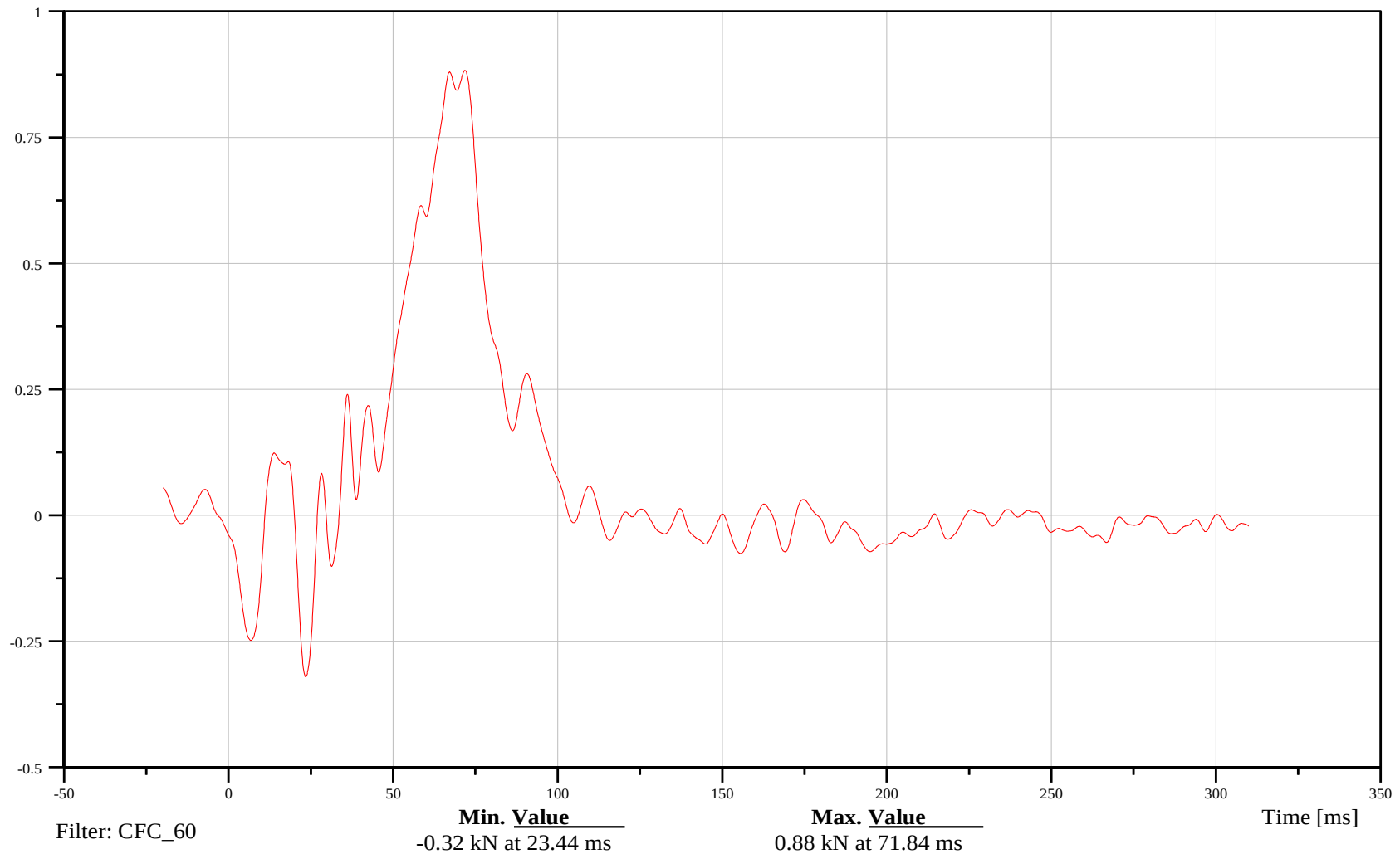
Date: 11/14/2013
Time: 15:28

BARRIER 4-4

Customer: VRTC
Test Number: 131114

B0FBAR040400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

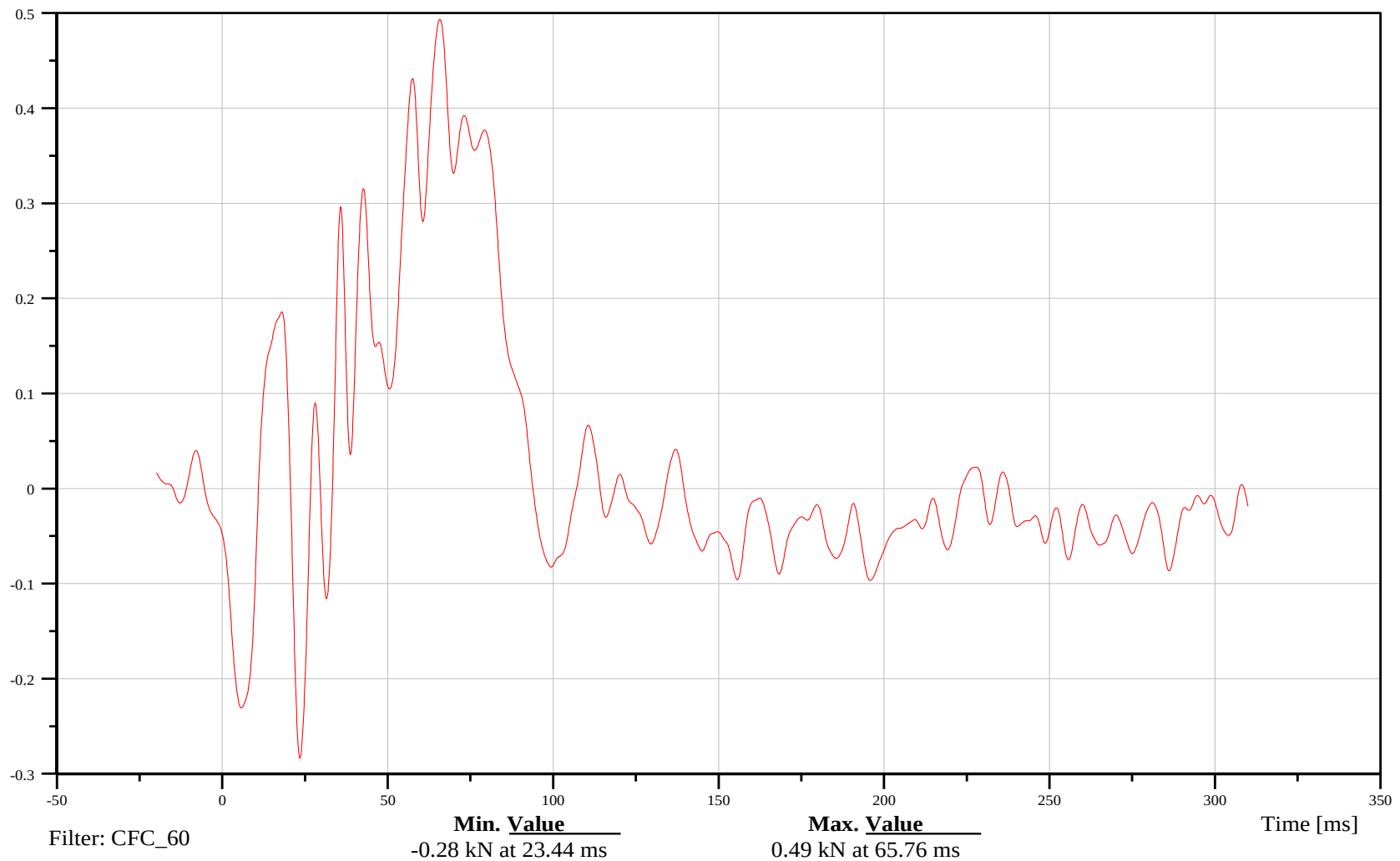
Date: 11/14/2013
Time: 15:28

BARRIER 4-5

Customer: VRTC
Test Number: 131114

B0FBAR040500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

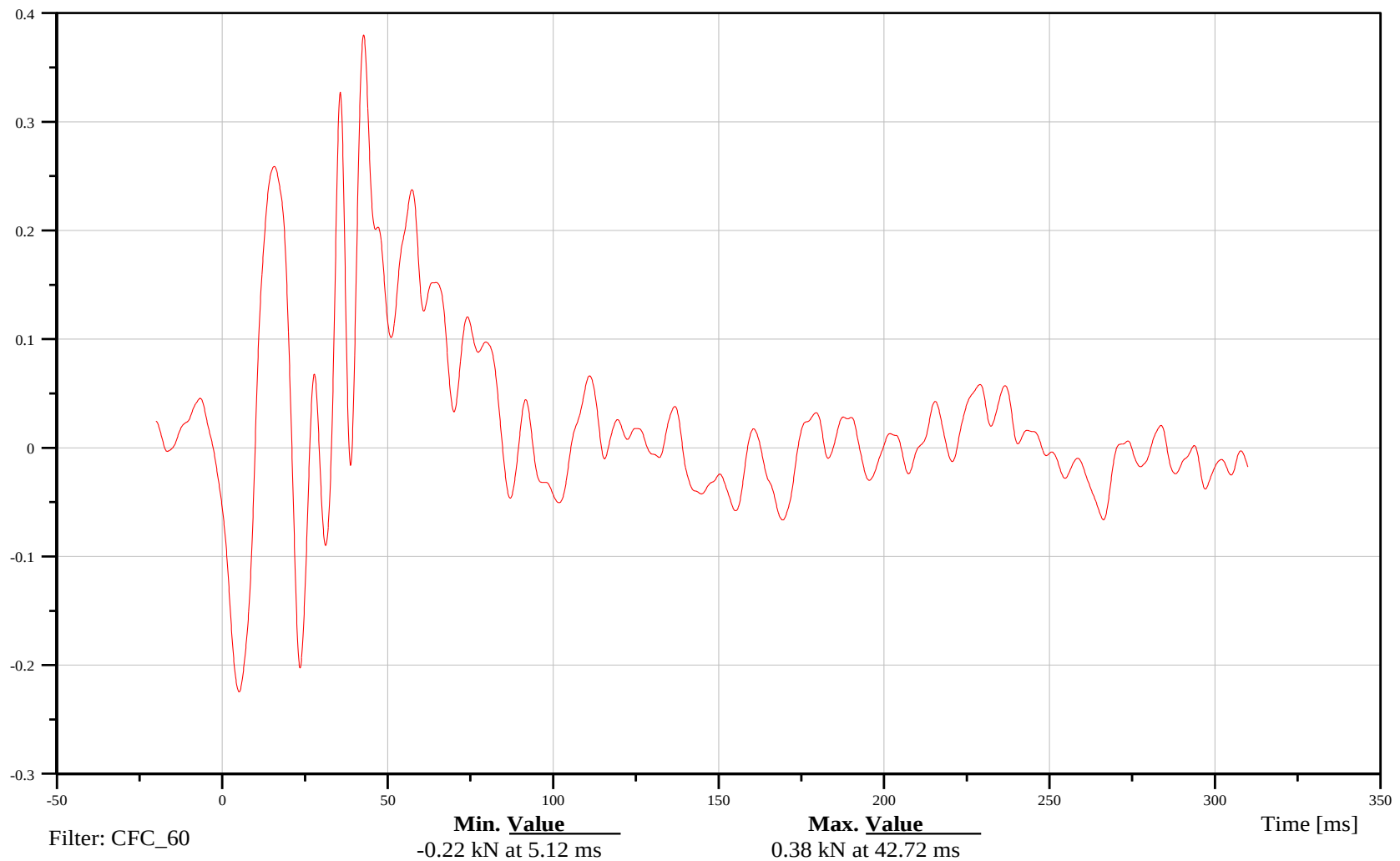
Date: 11/14/2013
Time: 15:28

BARRIER 4-6

Customer: VRTC
Test Number: 131114

B0FBAR040600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

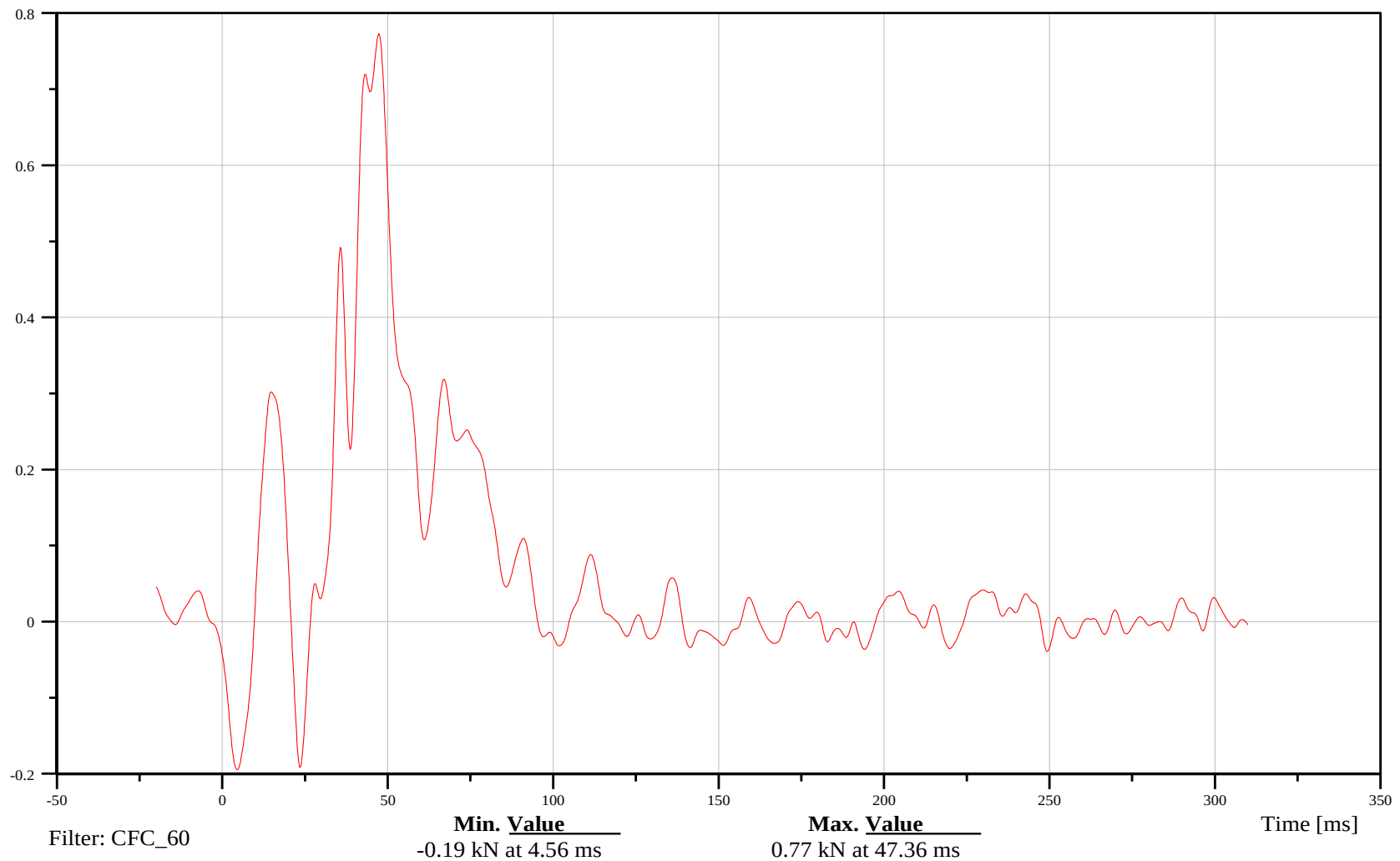
Date: 11/14/2013
Time: 15:28

BARRIER 4-7

Customer: VRTC
Test Number: 131114

B0FBAR040700FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

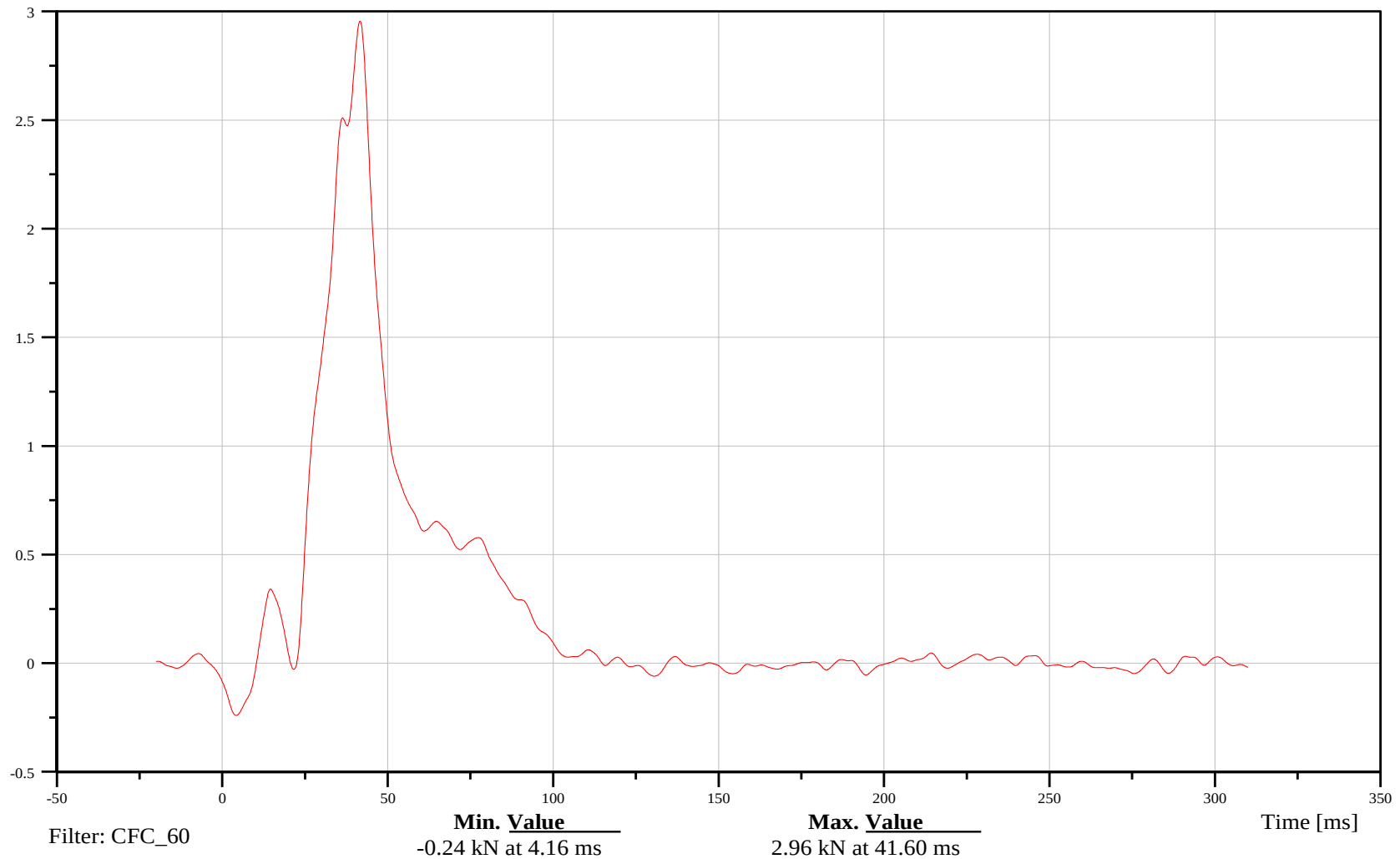
Date: 11/14/2013
Time: 15:28

BARRIER 4-8

Customer: VRTC
Test Number: 131114

B0FBAR040800FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

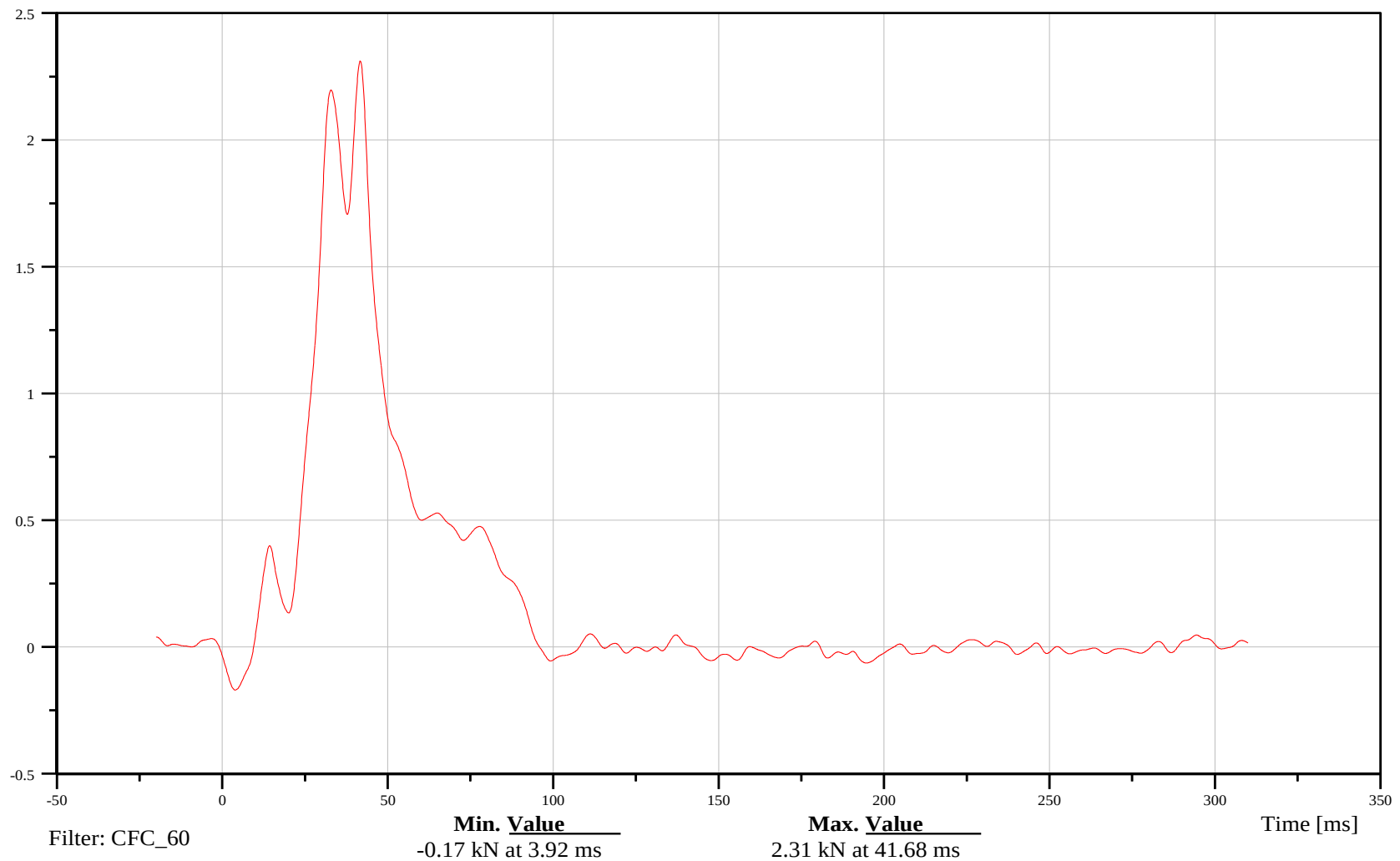
Date: 11/14/2013
Time: 15:28

BARRIER 4-9

Customer: VRTC
Test Number: 131114

B0FBAR040900FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

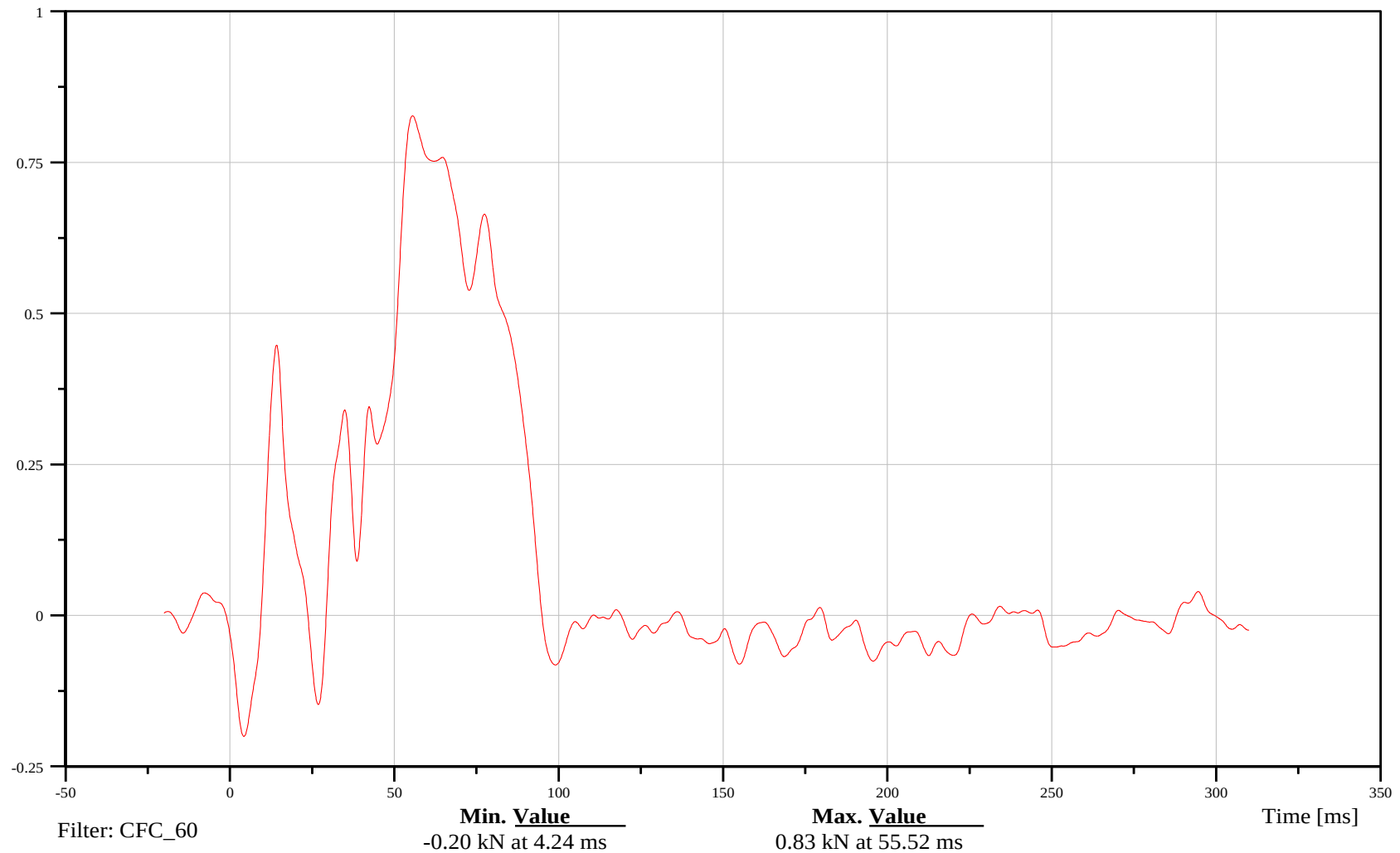
BARRIER 4-10

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR041000FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

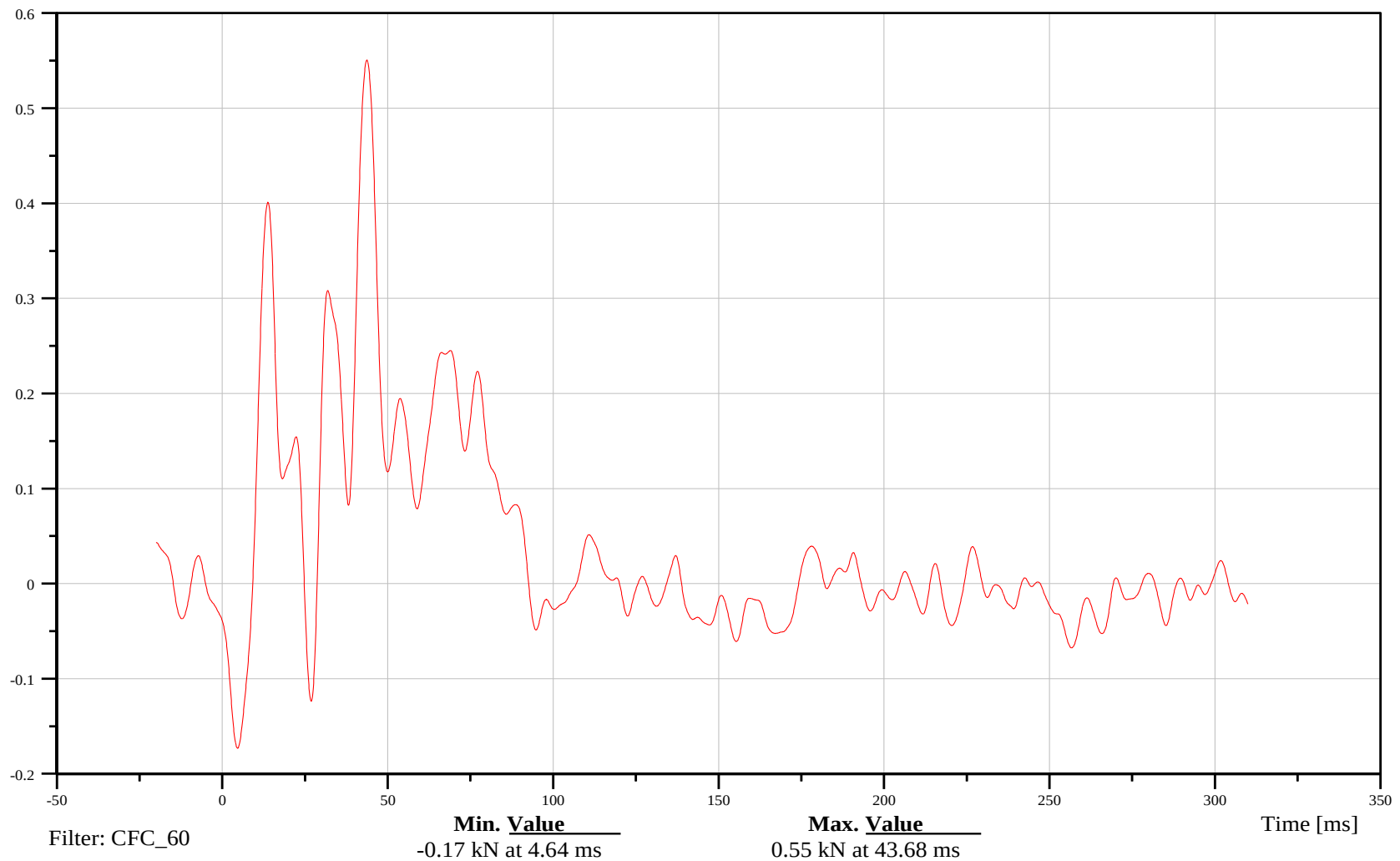
BARRIER 4-11

Date: 11/14/2013
Time: 15:28

Customer: VRTC
Test Number: 131114

B0FBAR041100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

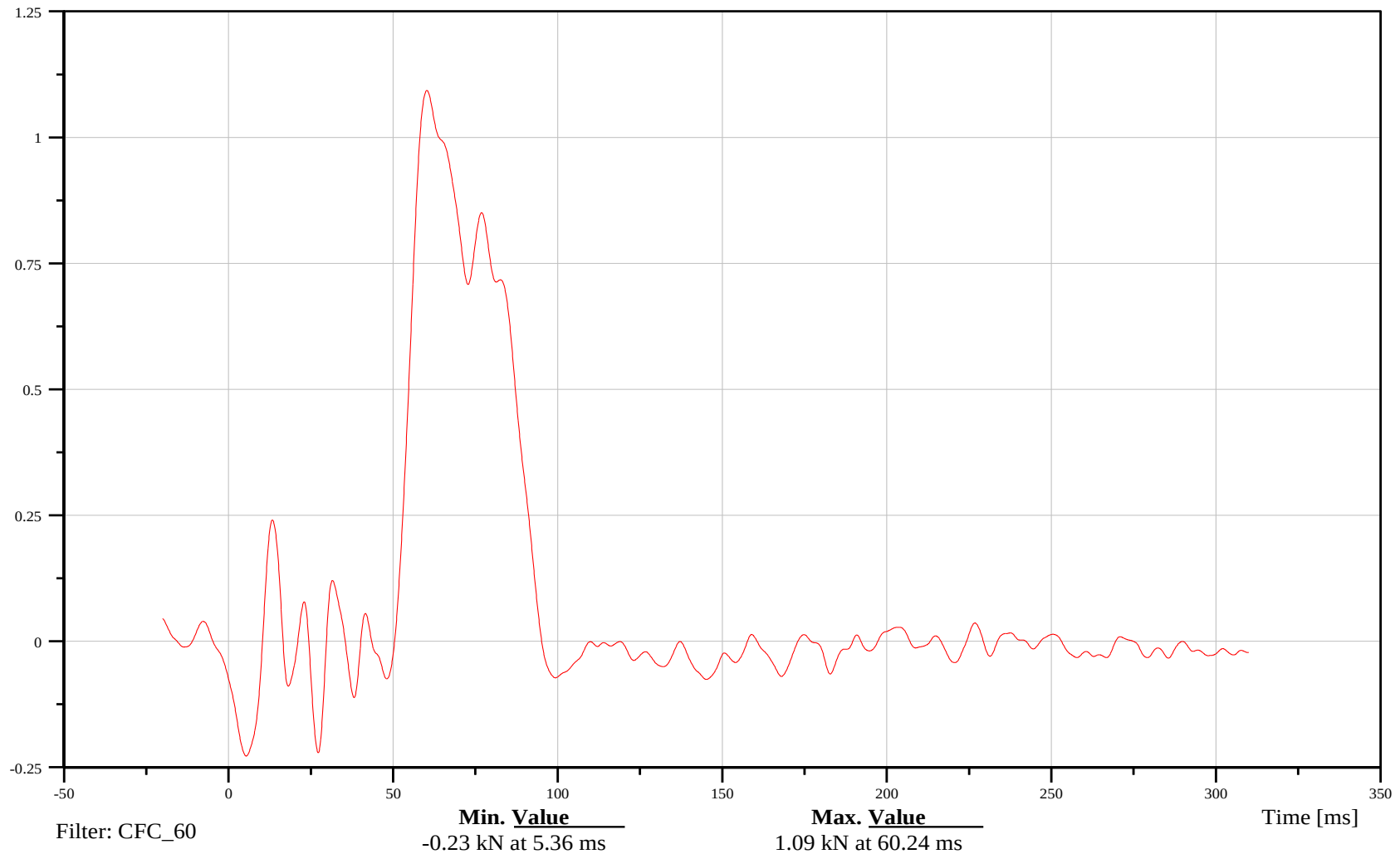
Date: 11/14/2013
Time: 15:28

BARRIER 4-12

Customer: VRTC
Test Number: 131114

B0FBAR041200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

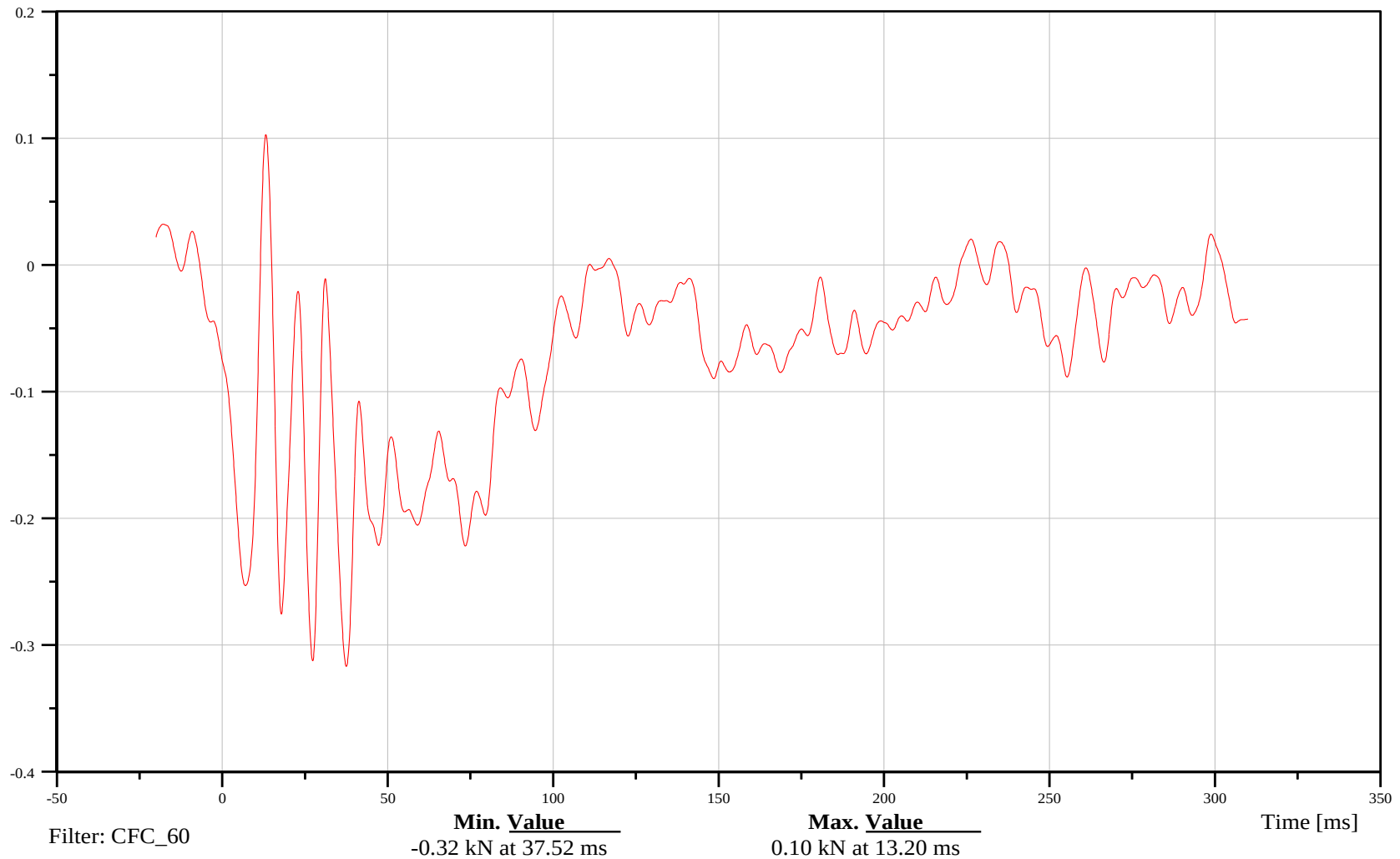
Date: 11/14/2013
Time: 15:28

BARRIER 4-13

Customer: VRTC
Test Number: 131114

B0FBAR041300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

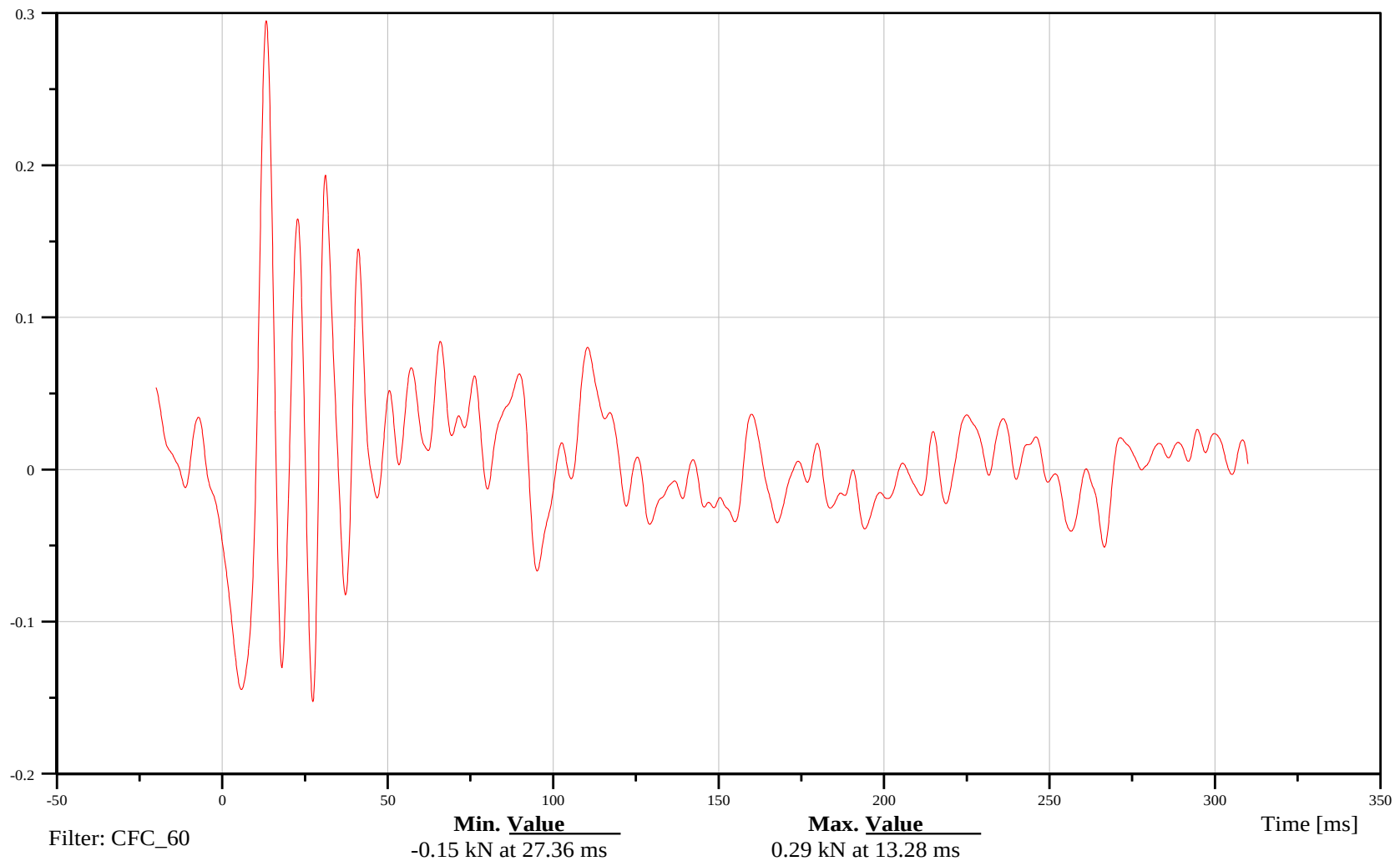
Date: 11/14/2013
Time: 15:28

BARRIER 4-14

Customer: VRTC
Test Number: 131114

B0FBAR041400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

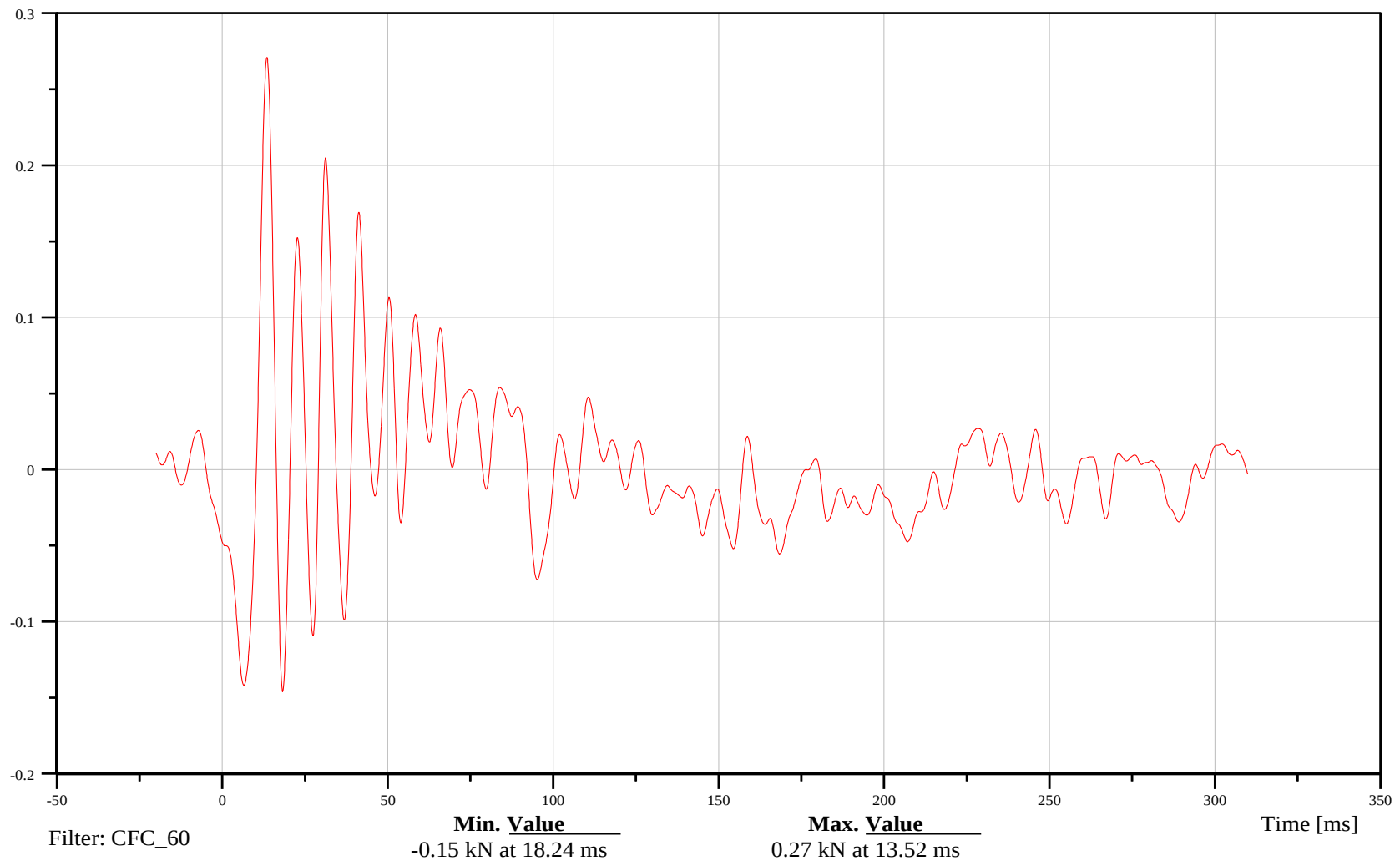
Date: 11/14/2013
Time: 15:28

BARRIER 4-15

Customer: VRTC
Test Number: 131114

B0FBAR041500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

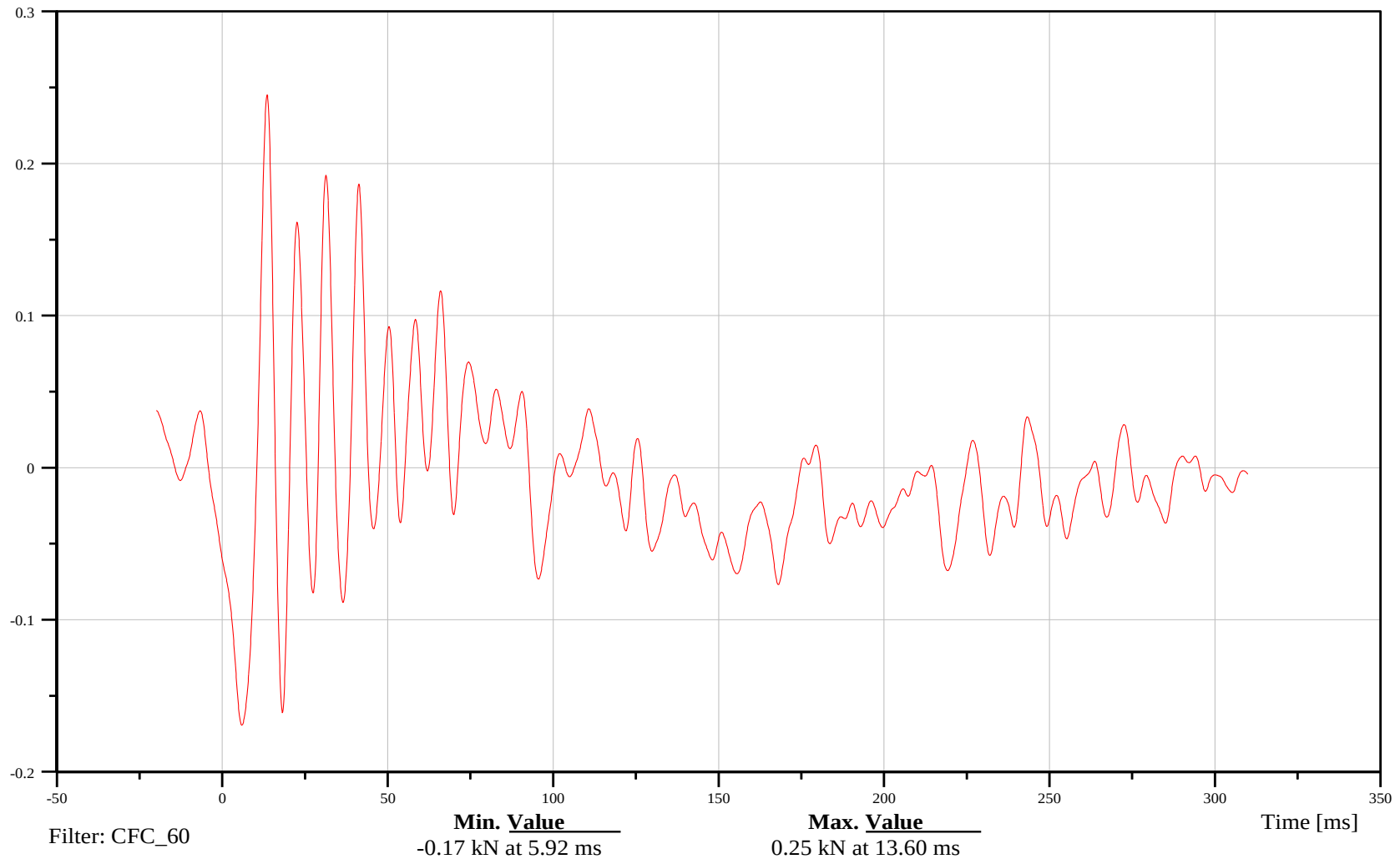
Date: 11/14/2013
Time: 15:28

BARRIER 4-16

Customer: VRTC
Test Number: 131114

B0FBAR041600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

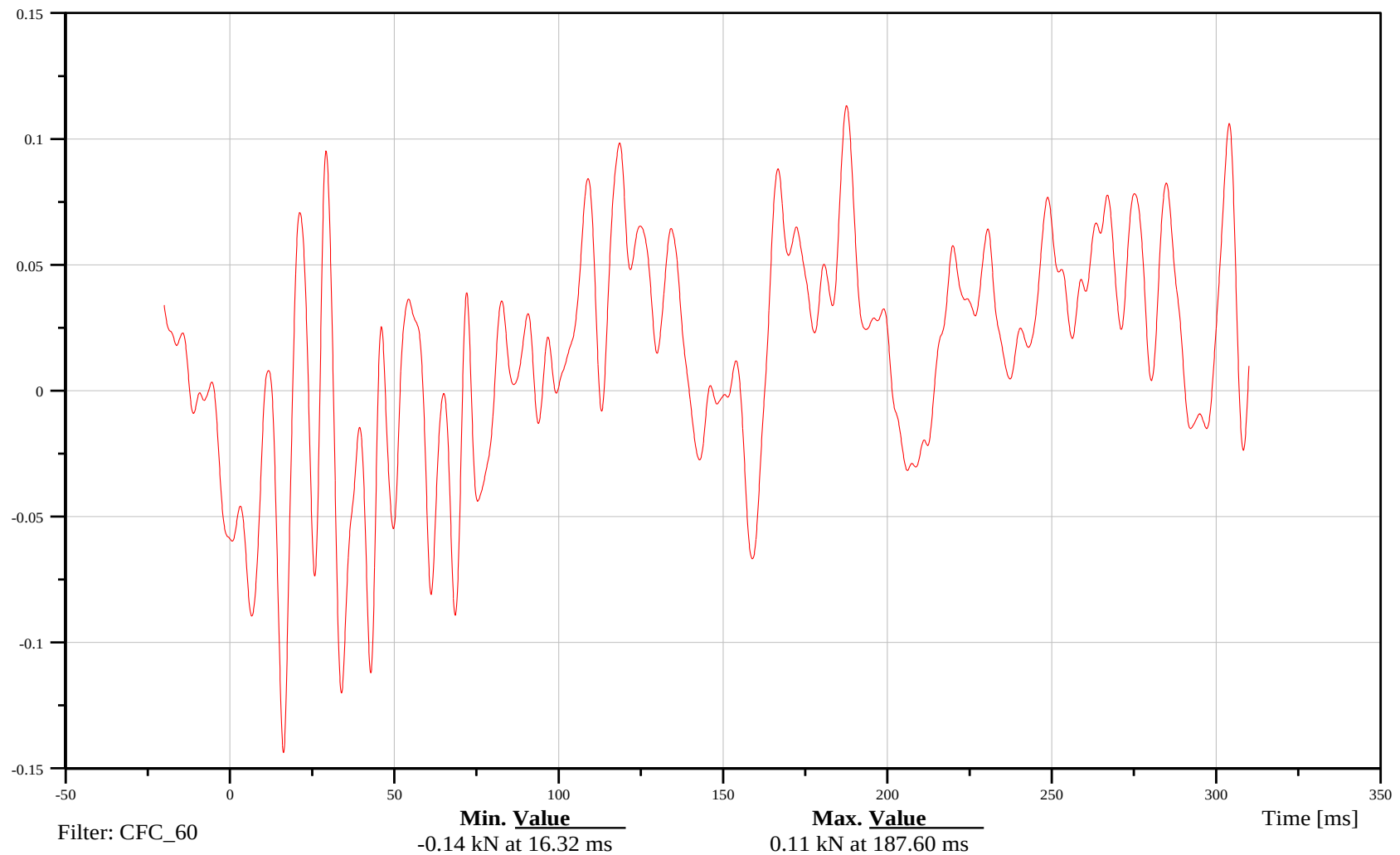
Date: 11/14/2013
Time: 15:28

BARRIER 2-1

Customer: VRTC
Test Number: 131114

B0FBAR020100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

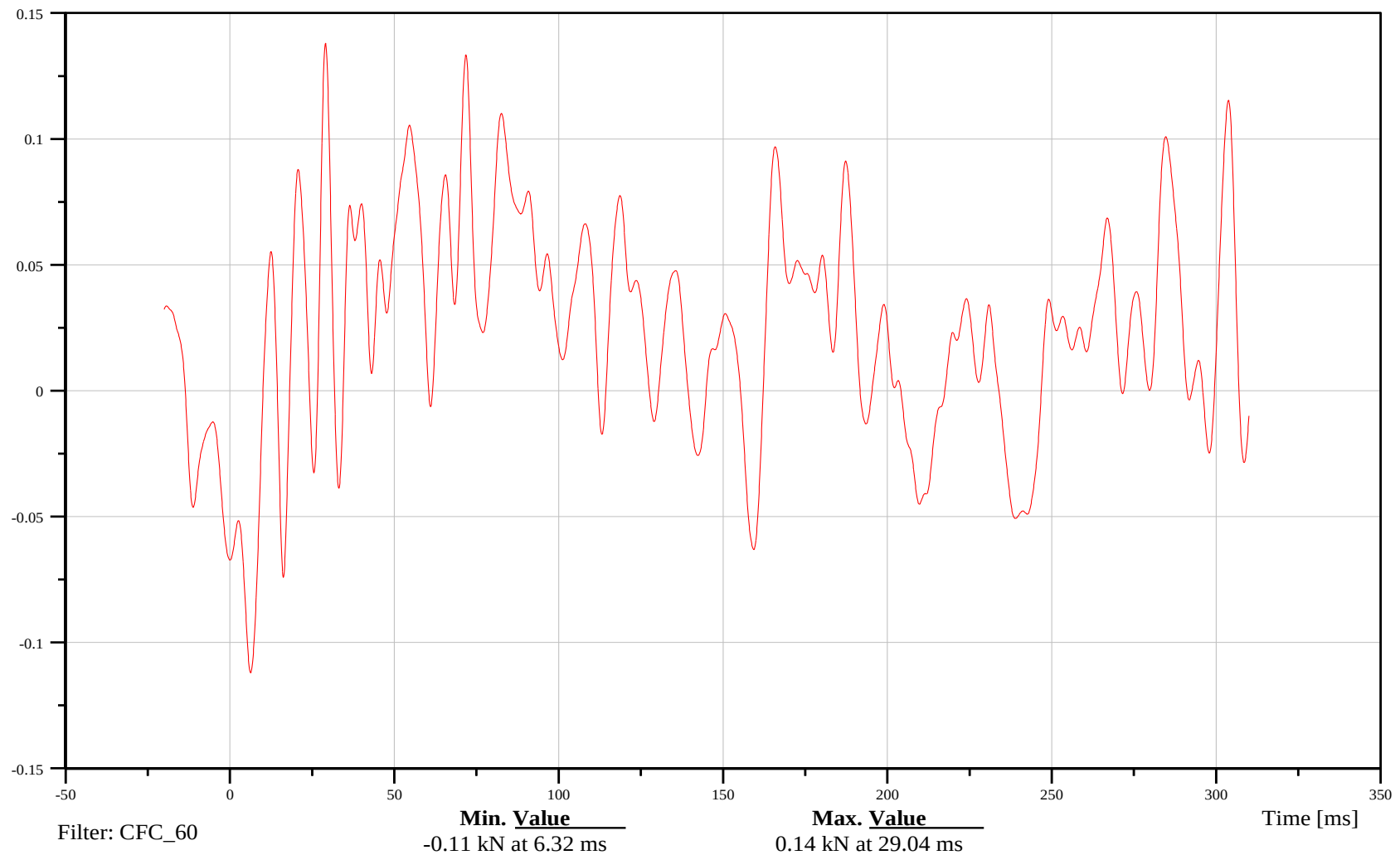
Date: 11/14/2013
Time: 15:28

BARRIER 2-2

Customer: VRTC
Test Number: 131114

B0FBAR020200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

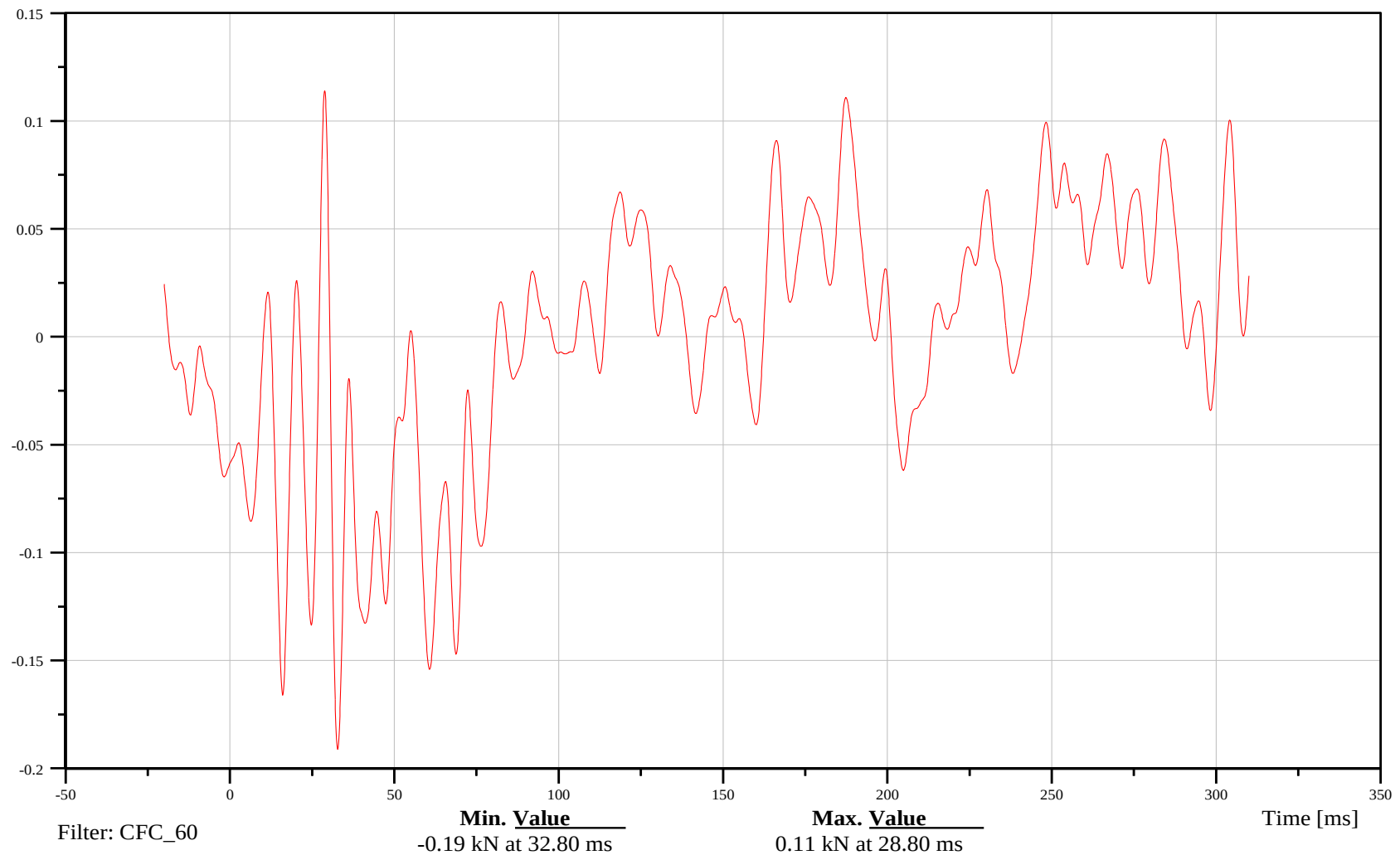
Date: 11/14/2013
Time: 15:28

BARRIER 2-3

Customer: VRTC
Test Number: 131114

B0FBAR020300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

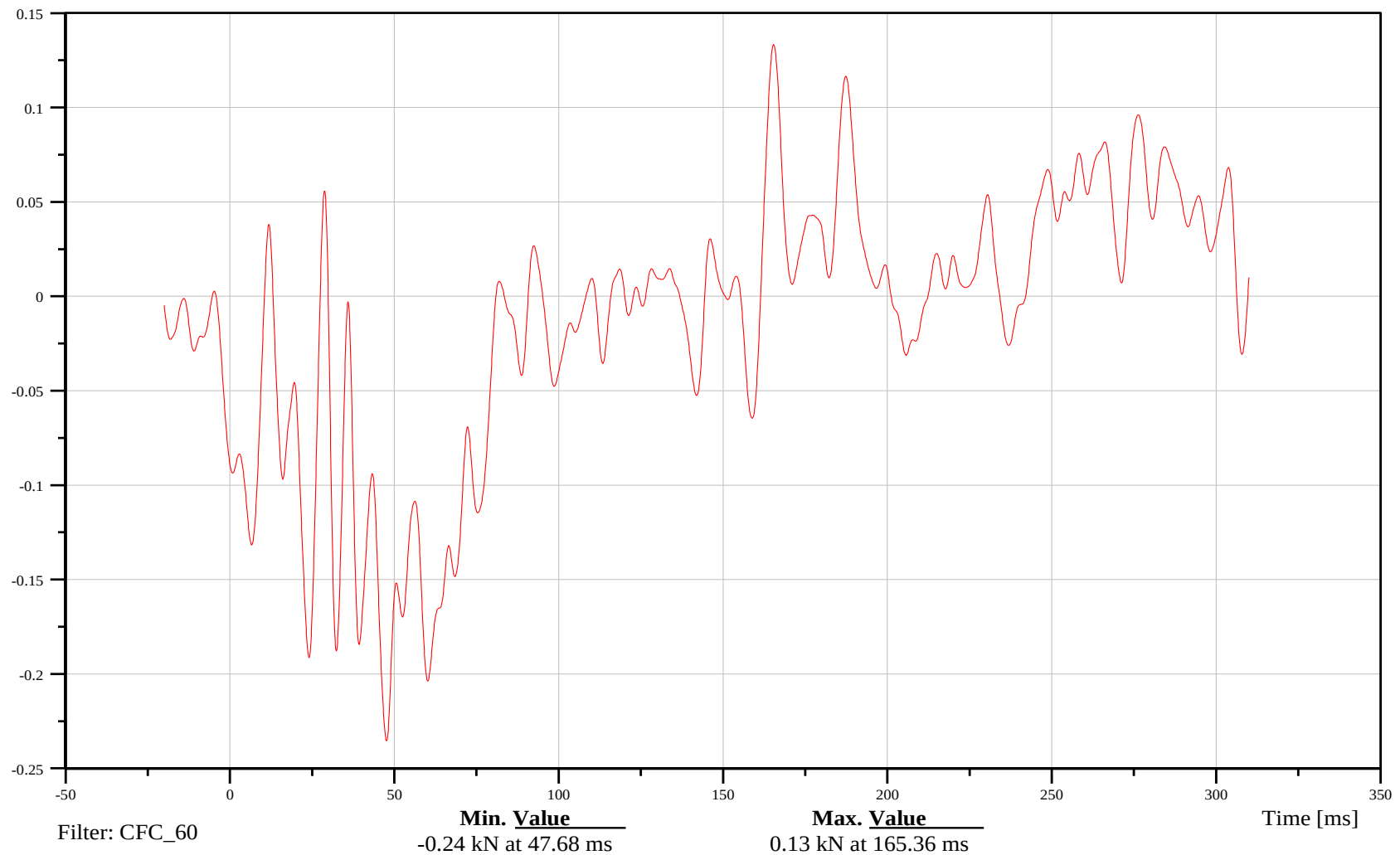
Date: 11/14/2013
Time: 15:28

BARRIER 2-4

Customer: VRTC
Test Number: 131114

B0FBAR020400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

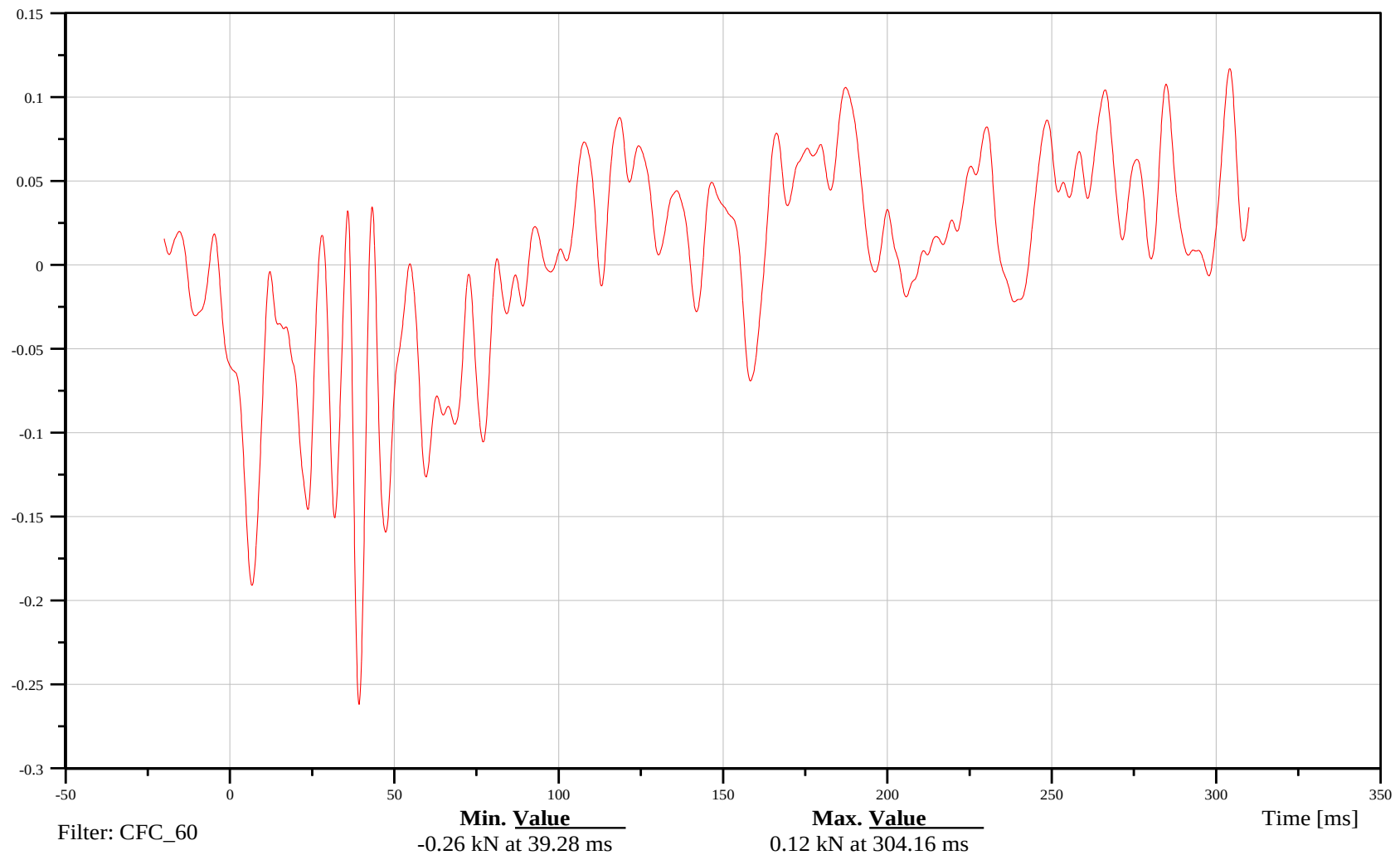
Date: 11/14/2013
Time: 15:28

BARRIER 2-5

Customer: VRTC
Test Number: 131114

B0FBAR020500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

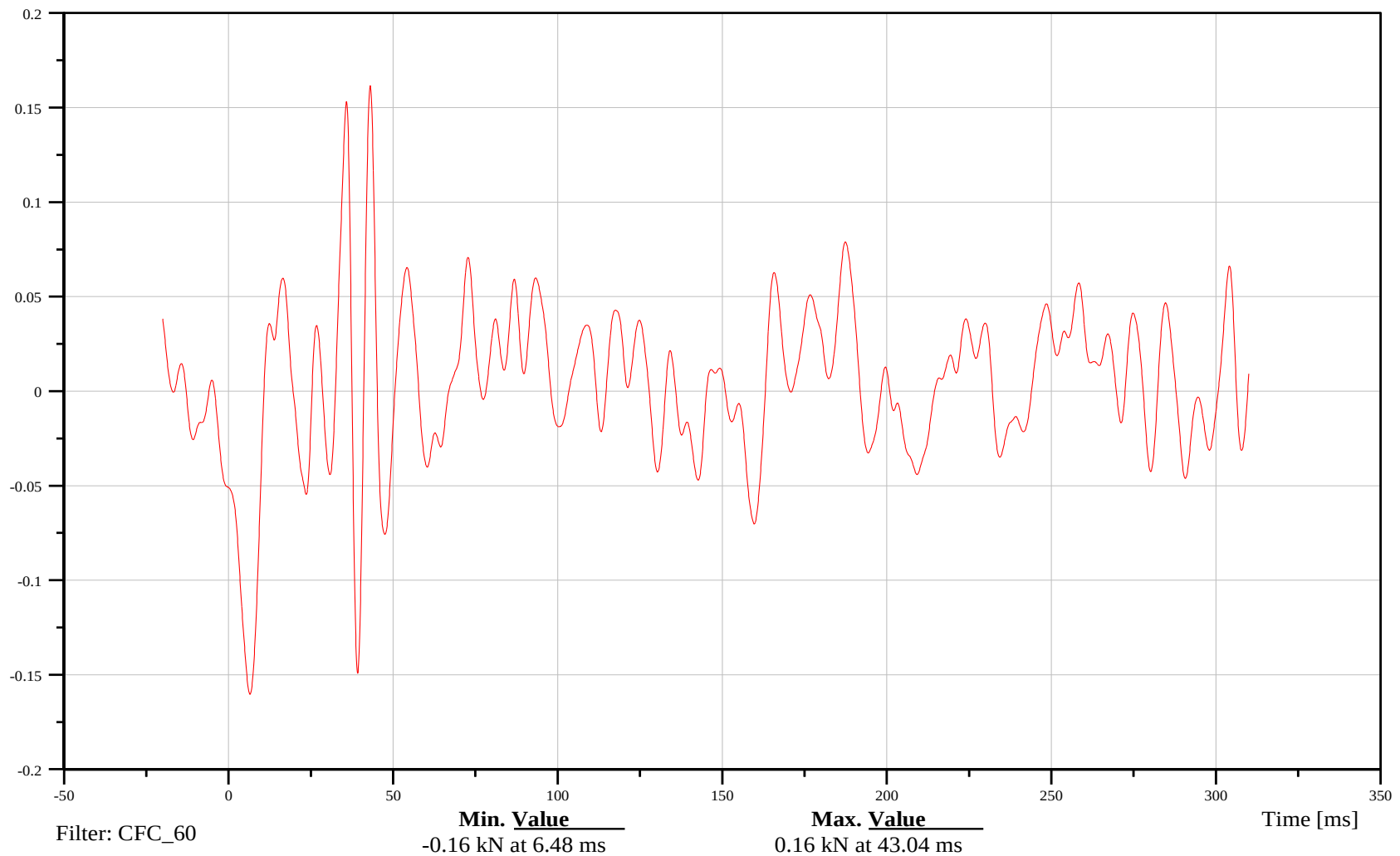
Date: 11/14/2013
Time: 15:28

BARRIER 2-6

Customer: VRTC
Test Number: 131114

B0FBAR020600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

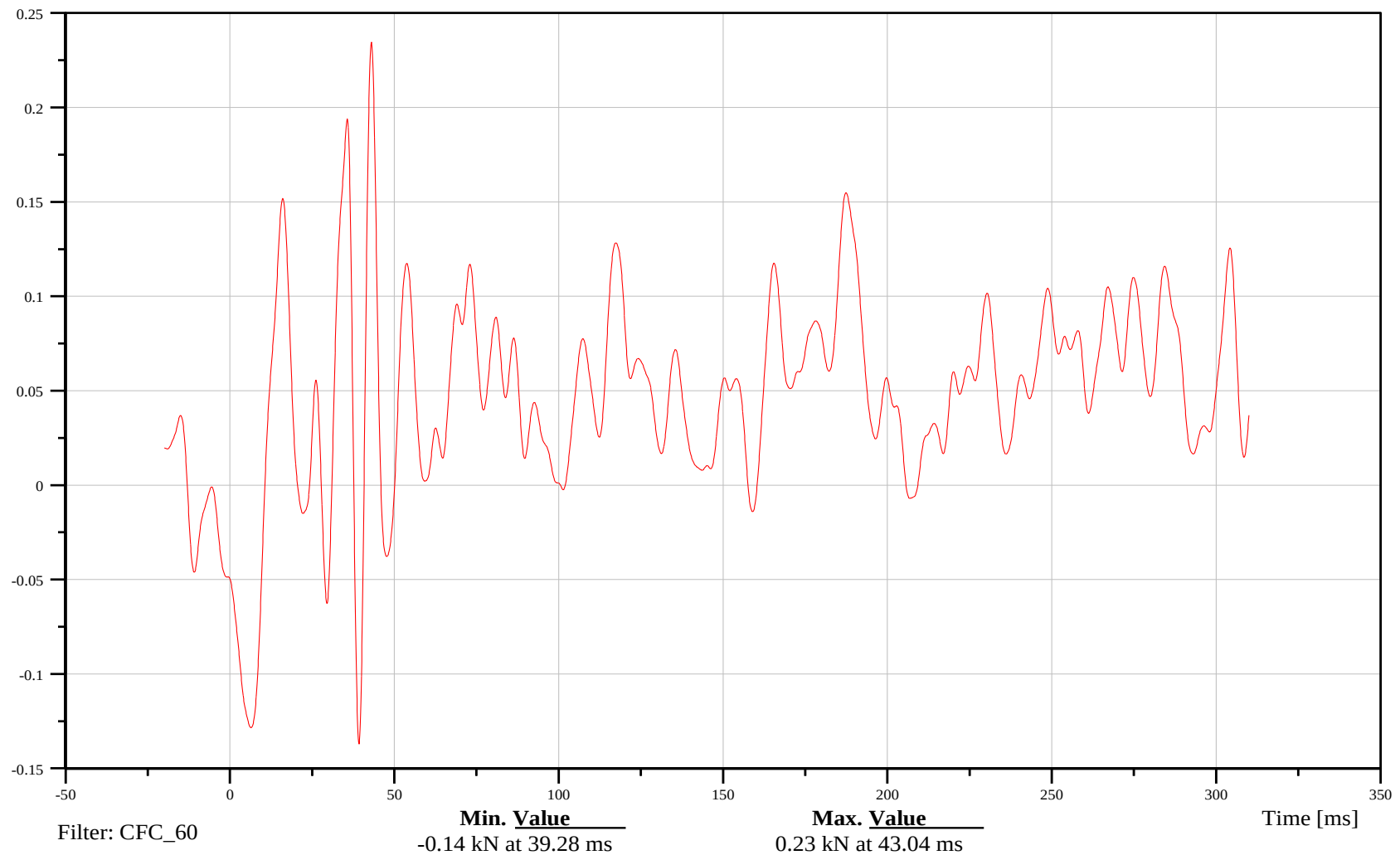
Date: 11/14/2013
Time: 15:28

BARRIER 2-7

Customer: VRTC
Test Number: 131114

B0FBAR020700FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

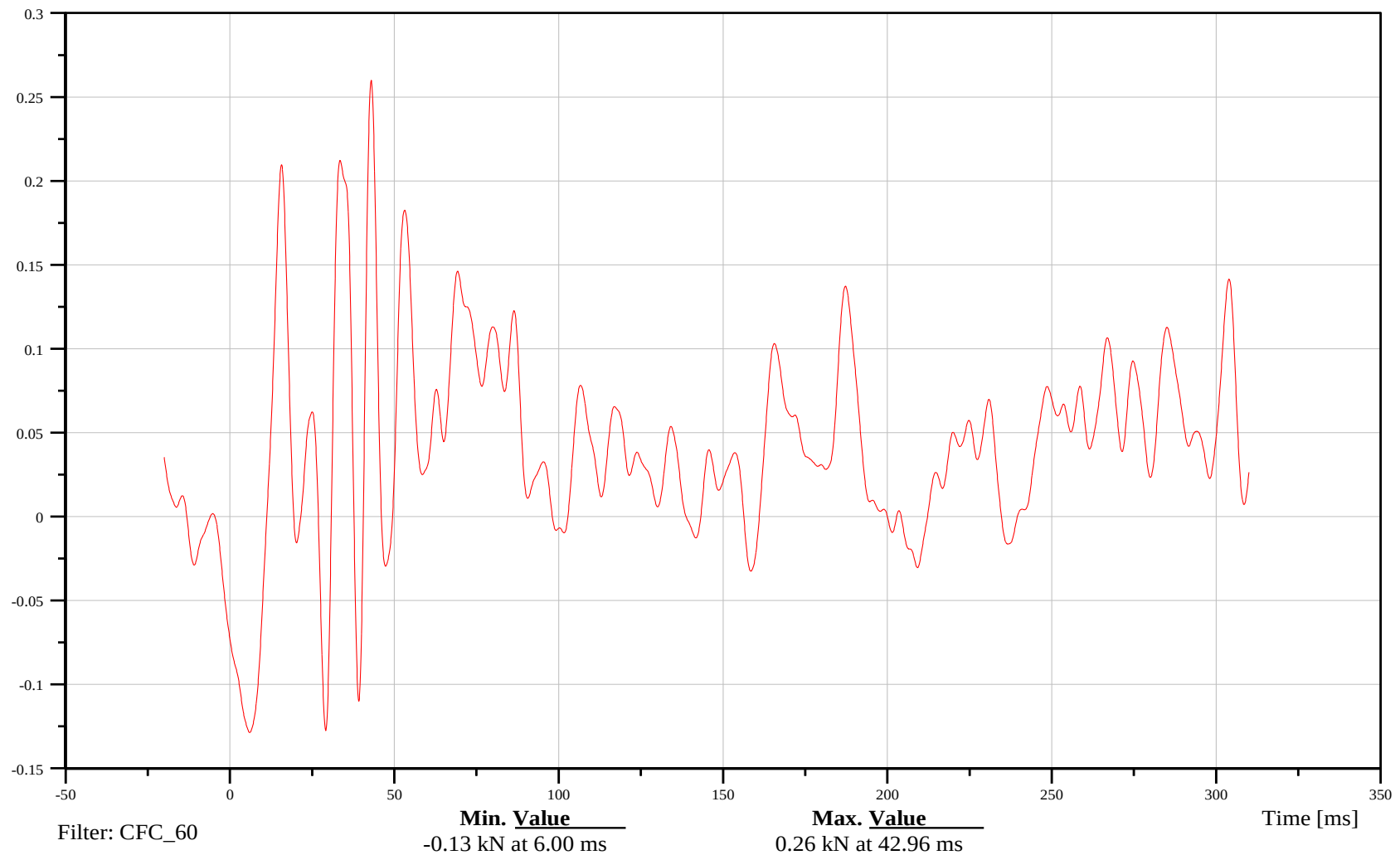
Date: 11/14/2013
Time: 15:28

BARRIER 2-8

Customer: VRTC
Test Number: 131114

B0FBAR020800FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

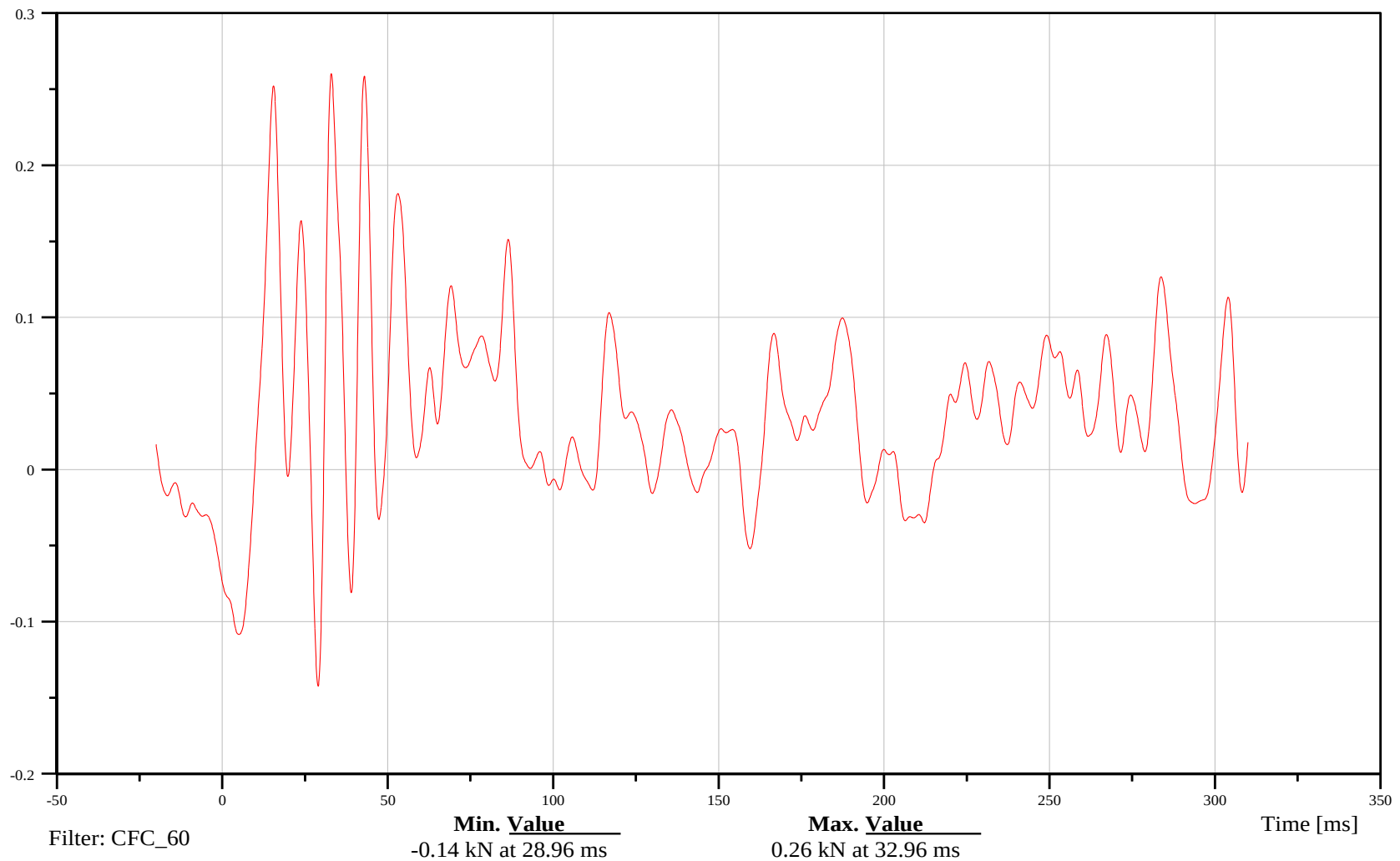
Date: 11/14/2013
Time: 15:28

BARRIER 2-9

Customer: VRTC
Test Number: 131114

B0FBAR020900FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

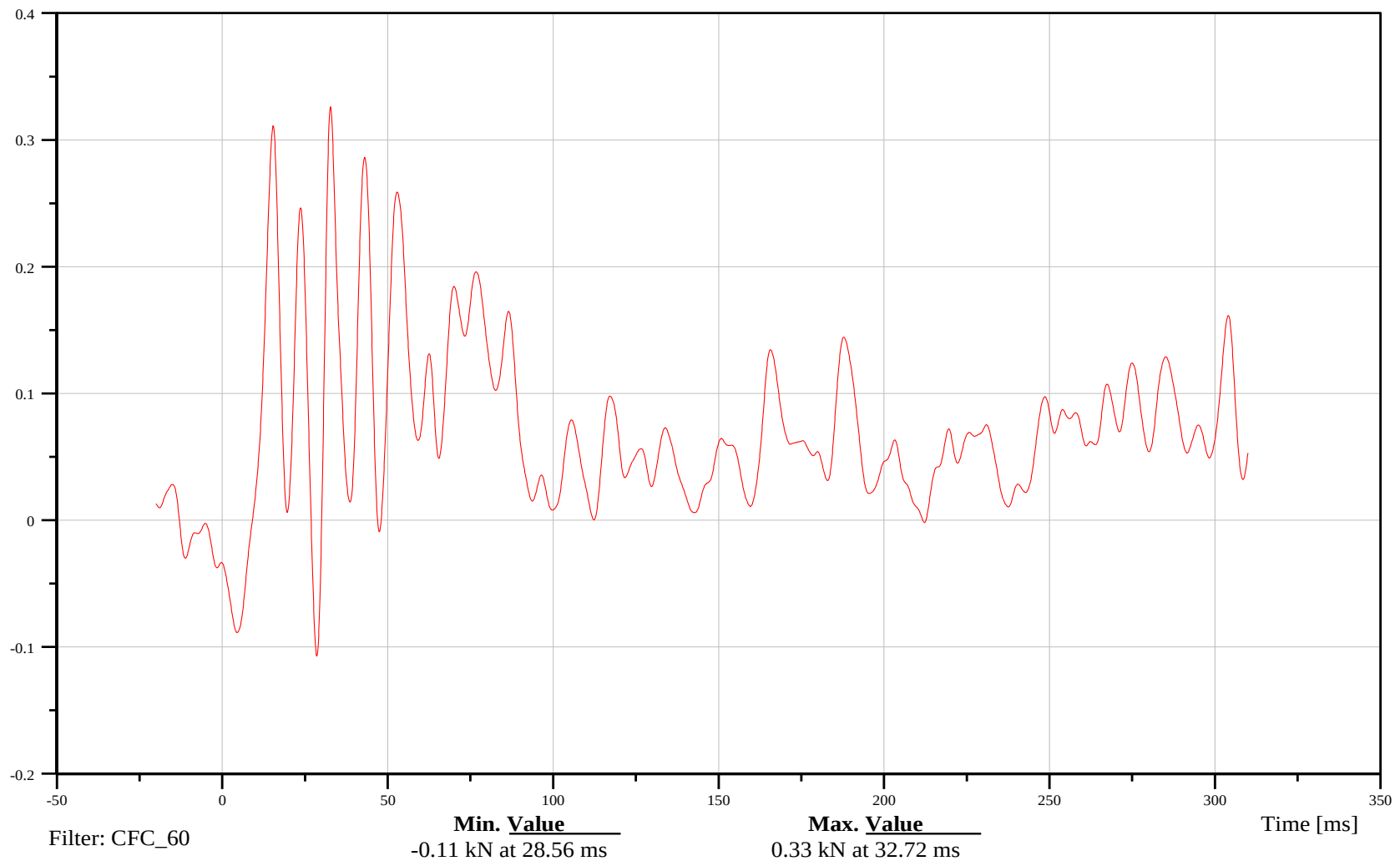
Date: 11/14/2013
Time: 15:28

BARRIER 2-10

Customer: VRTC
Test Number: 131114

B0FBAR021000FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

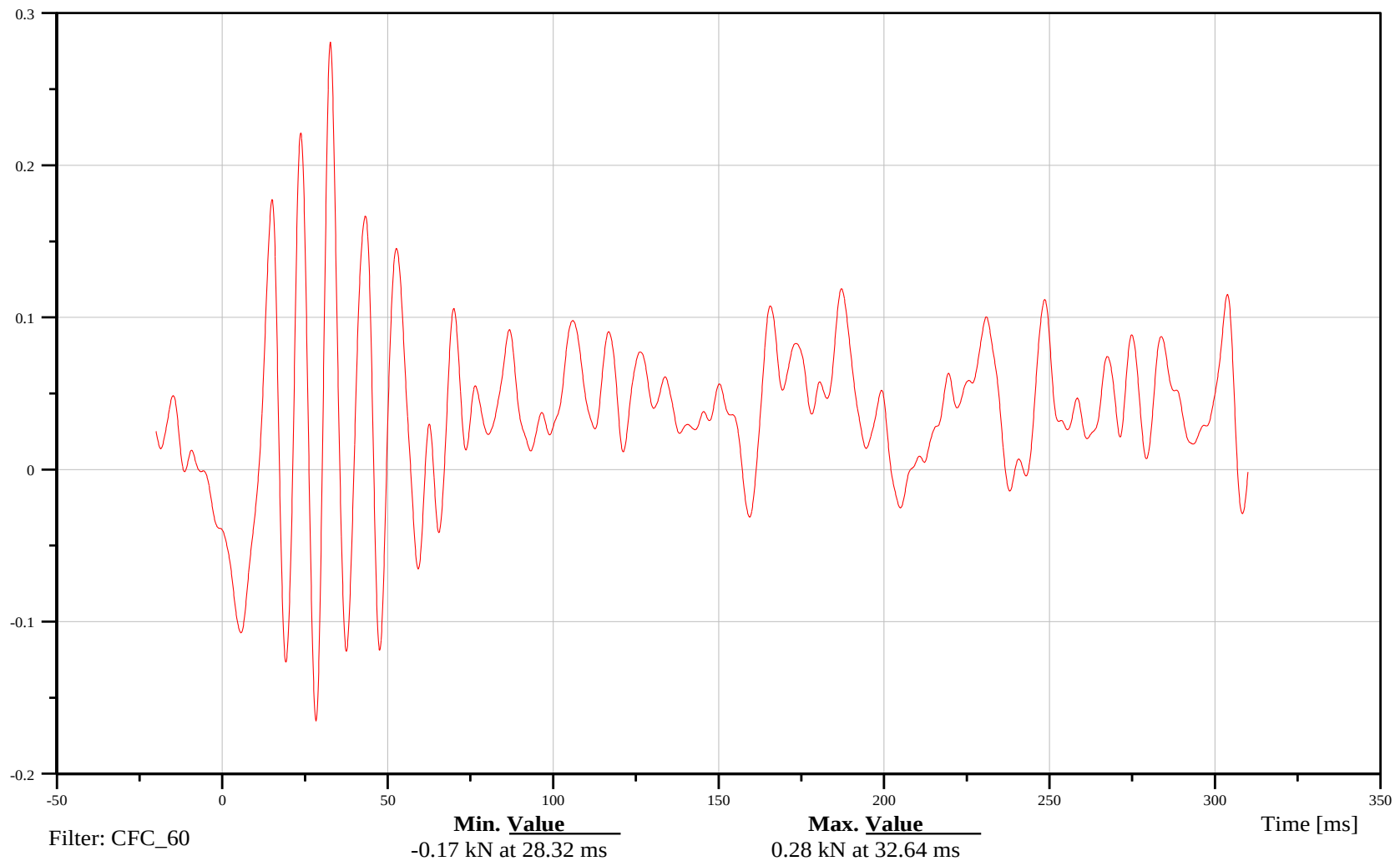
Date: 11/14/2013
Time: 15:28

BARRIER 2-11

Customer: VRTC
Test Number: 131114

B0FBAR021100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

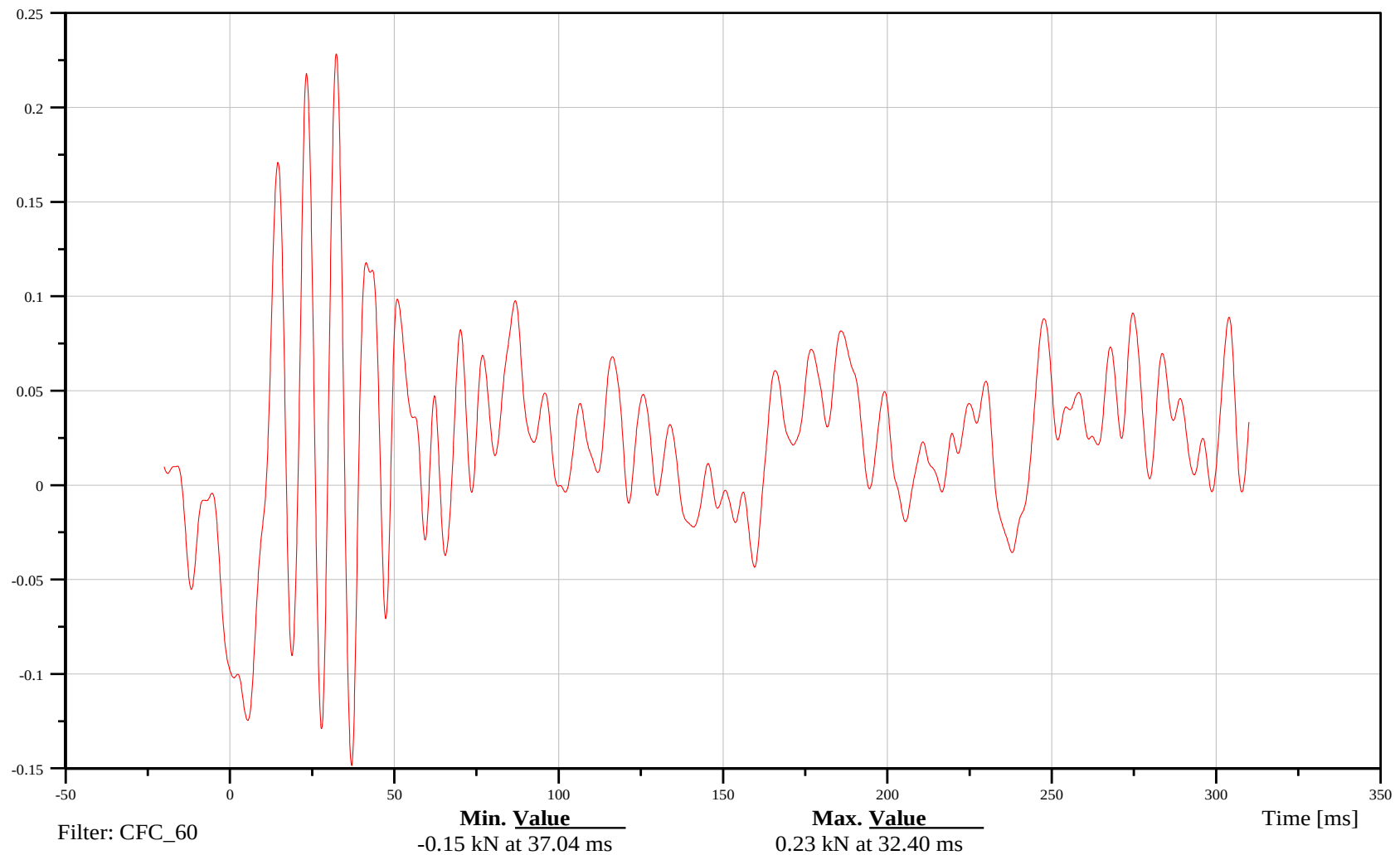
Date: 11/14/2013
Time: 15:28

BARRIER 2-12

Customer: VRTC
Test Number: 131114

B0FBAR021200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

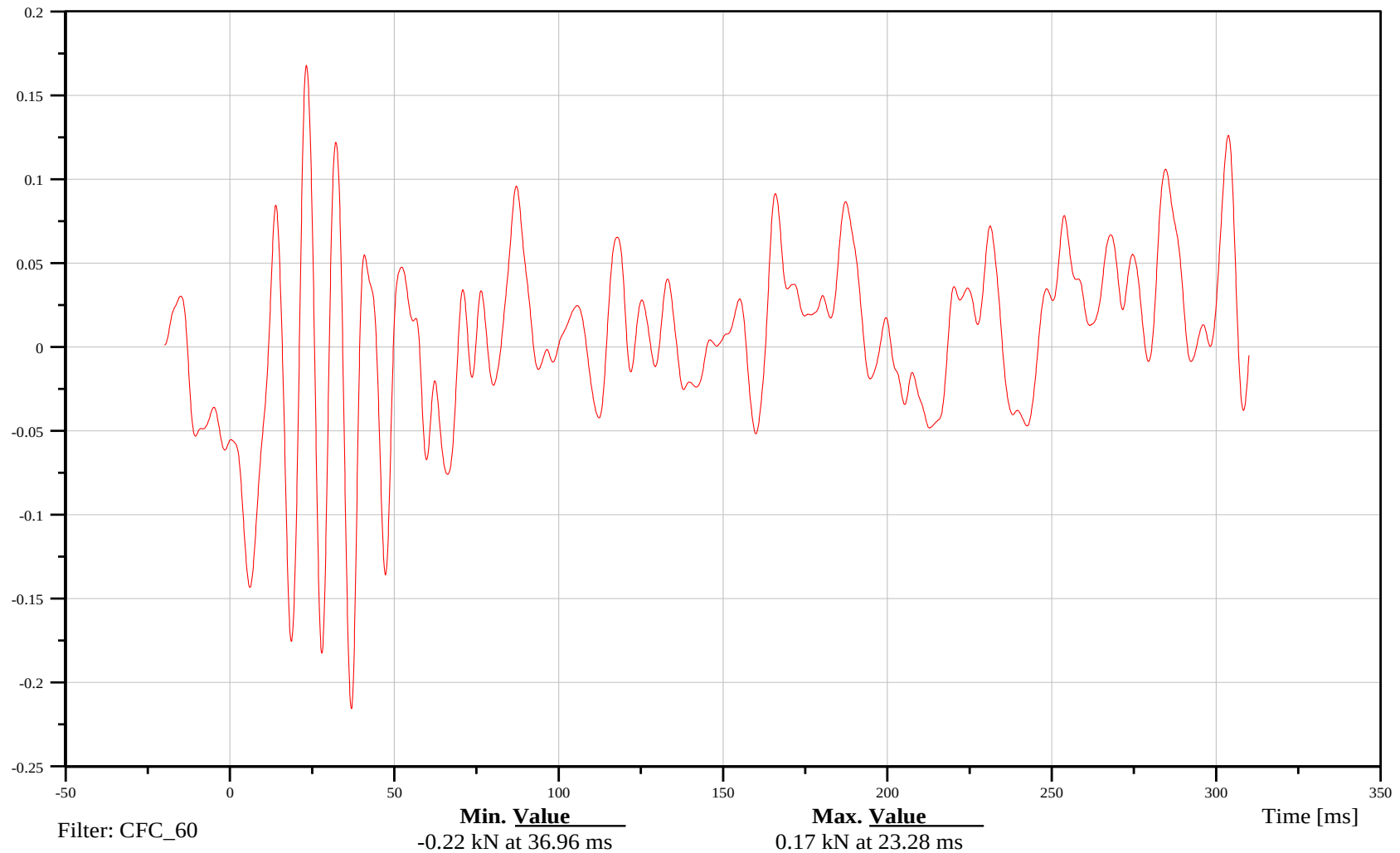
Date: 11/14/2013
Time: 15:28

BARRIER 2-13

Customer: VRTC
Test Number: 131114

B0FBAR021300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

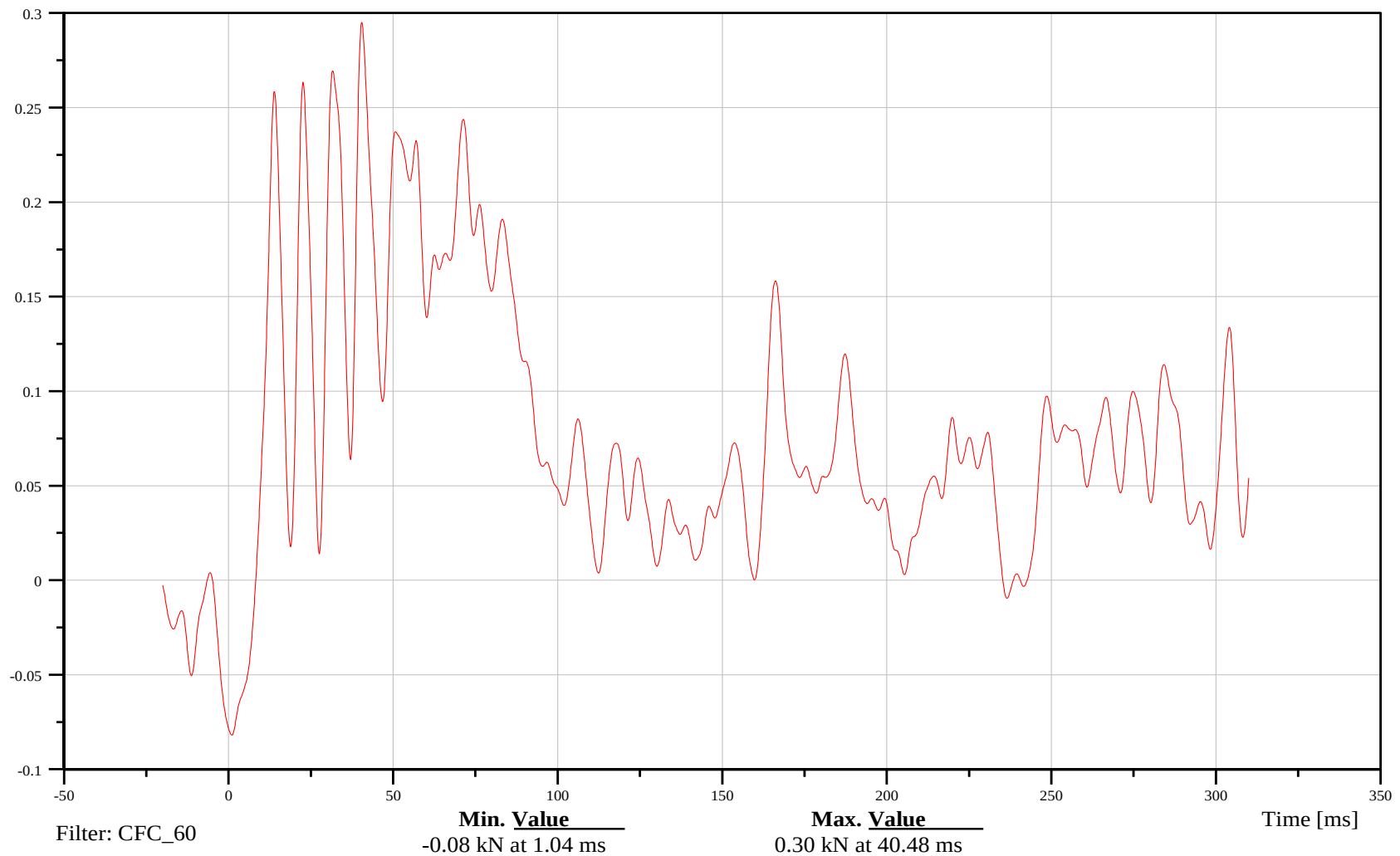
Date: 11/14/2013
Time: 15:28

BARRIER 2-14

Customer: VRTC
Test Number: 131114

B0FBAR021400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

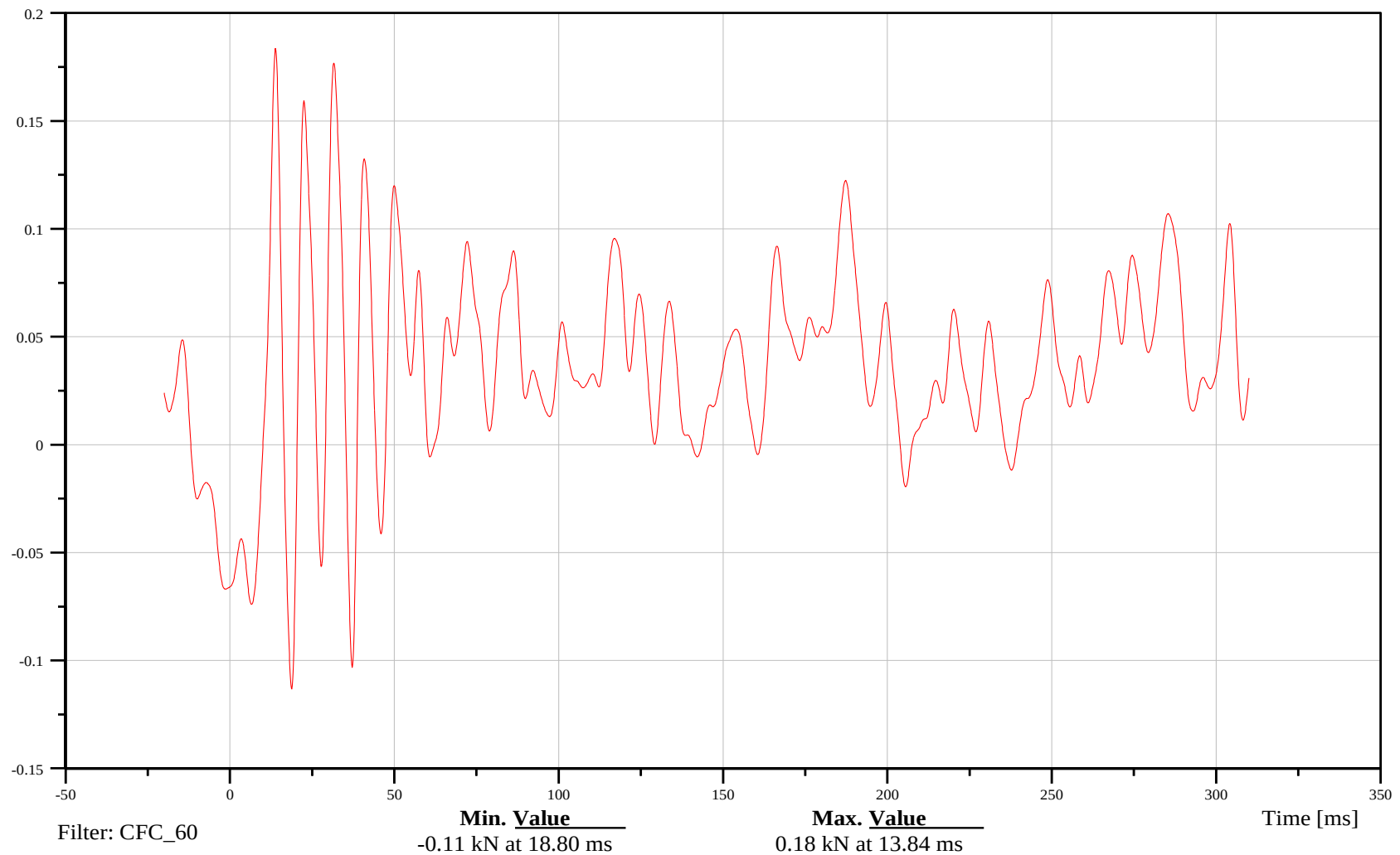
Date: 11/14/2013
Time: 15:28

BARRIER 2-15

Customer: VRTC
Test Number: 131114

B0FBAR021500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

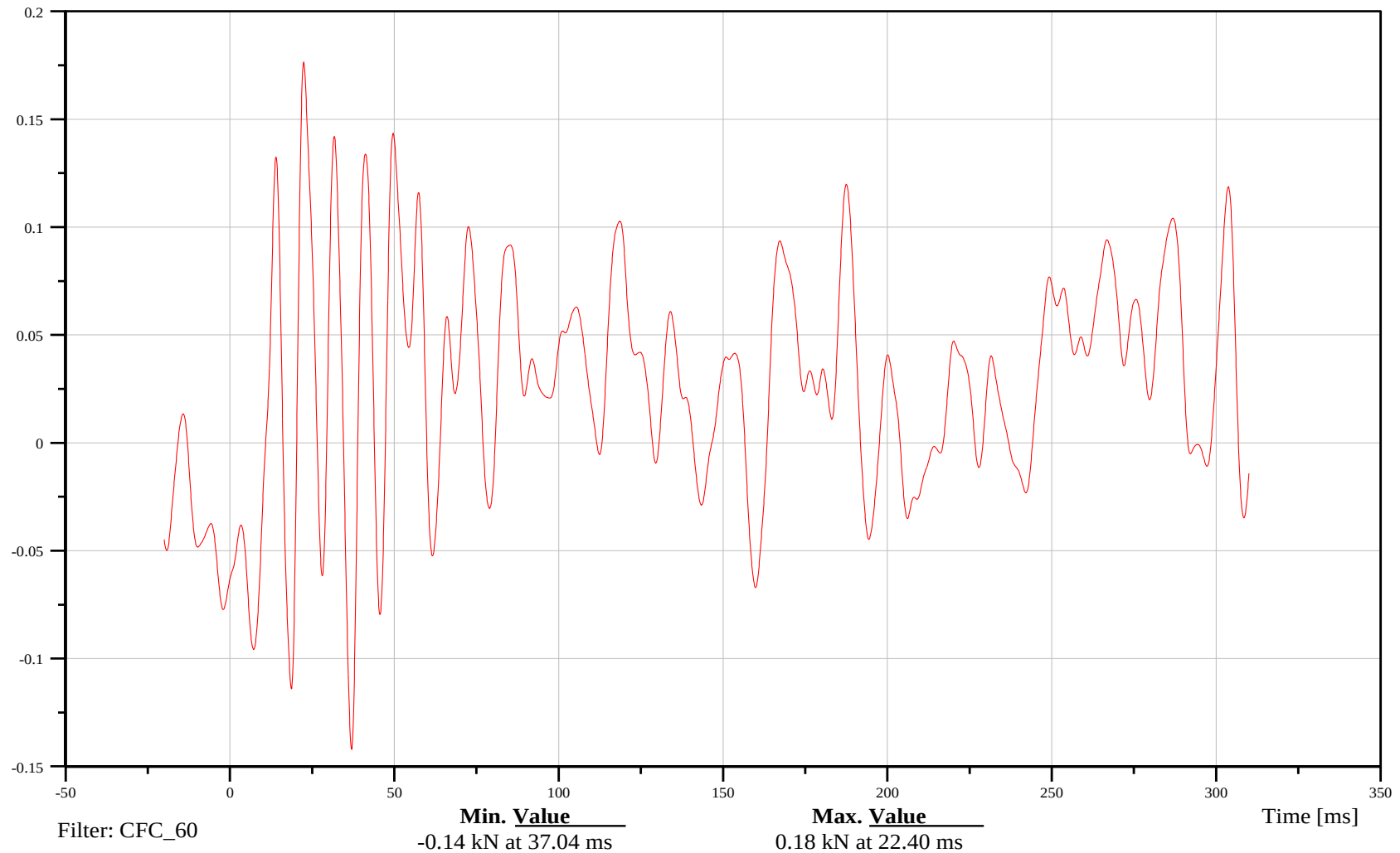
Date: 11/14/2013
Time: 15:28

BARRIER 2-16

Customer: VRTC
Test Number: 131114

B0FBAR021600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

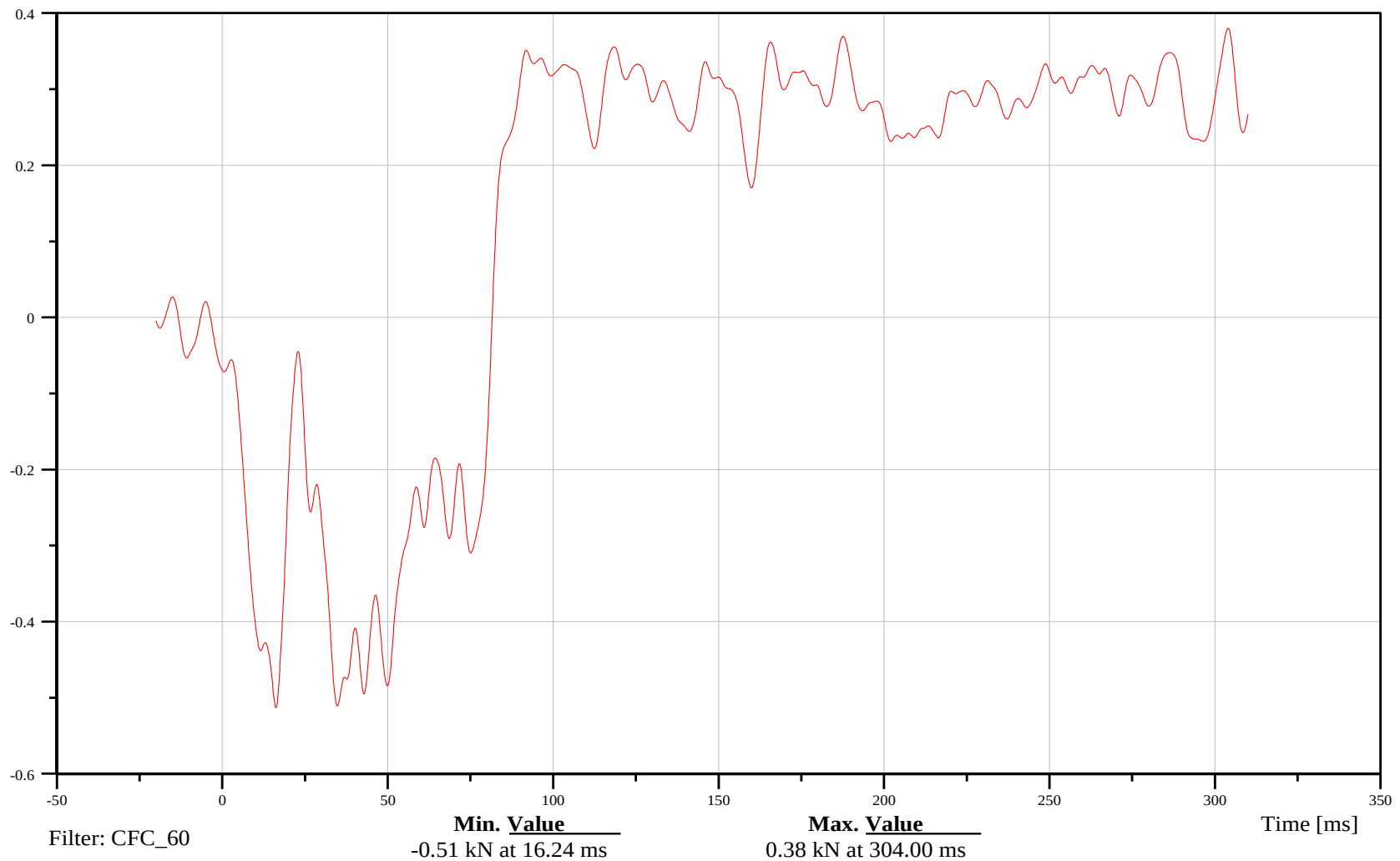
Date: 11/14/2013
Time: 15:28

BARRIER 3-1

Customer: VRTC
Test Number: 131114

B0FBAR030100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

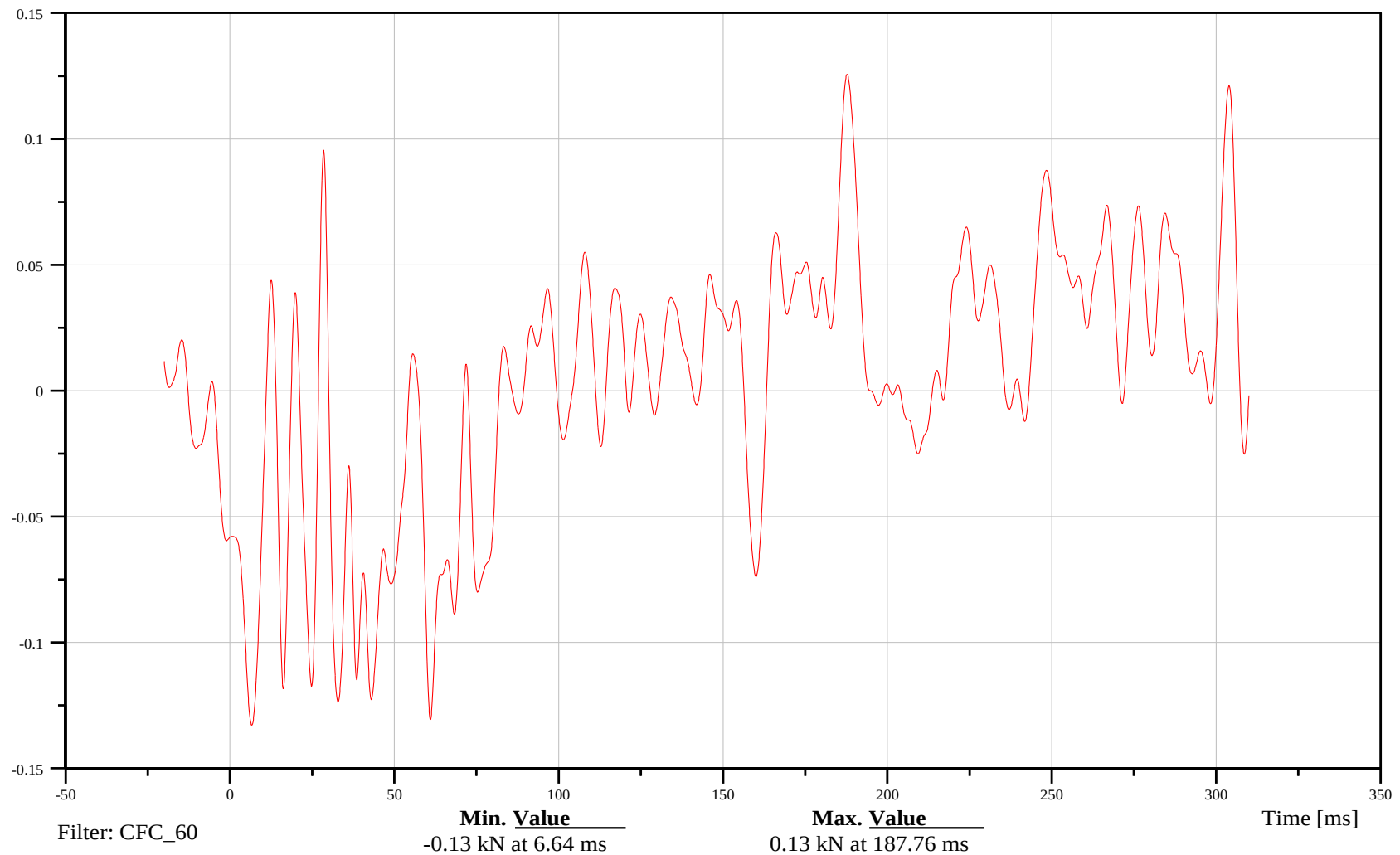
Date: 11/14/2013
Time: 15:28

BARRIER 3-2

Customer: VRTC
Test Number: 131114

B0FBAR030200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

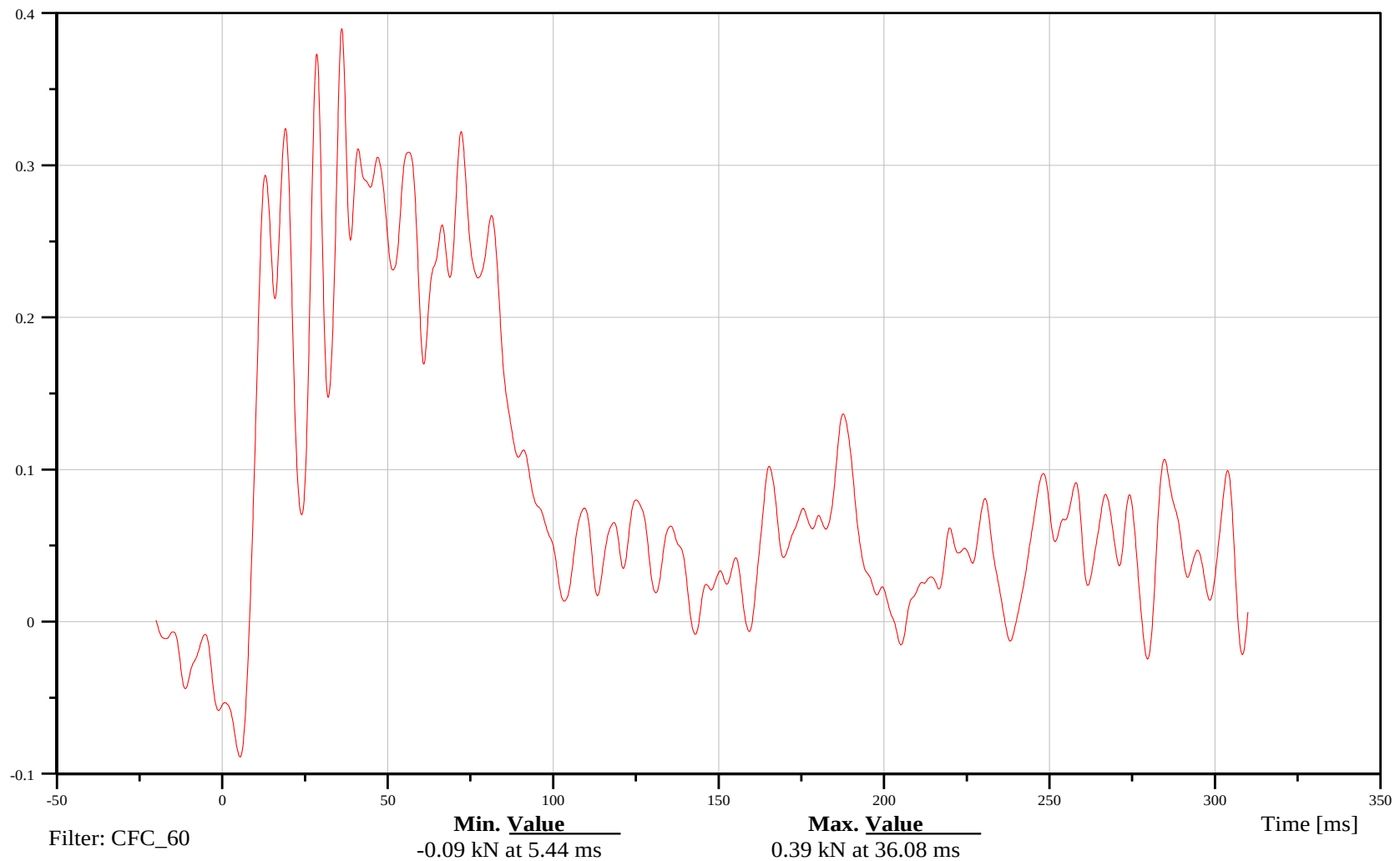
Date: 11/14/2013
Time: 15:28

BARRIER 3-3

Customer: VRTC
Test Number: 131114

B0FBAR030300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

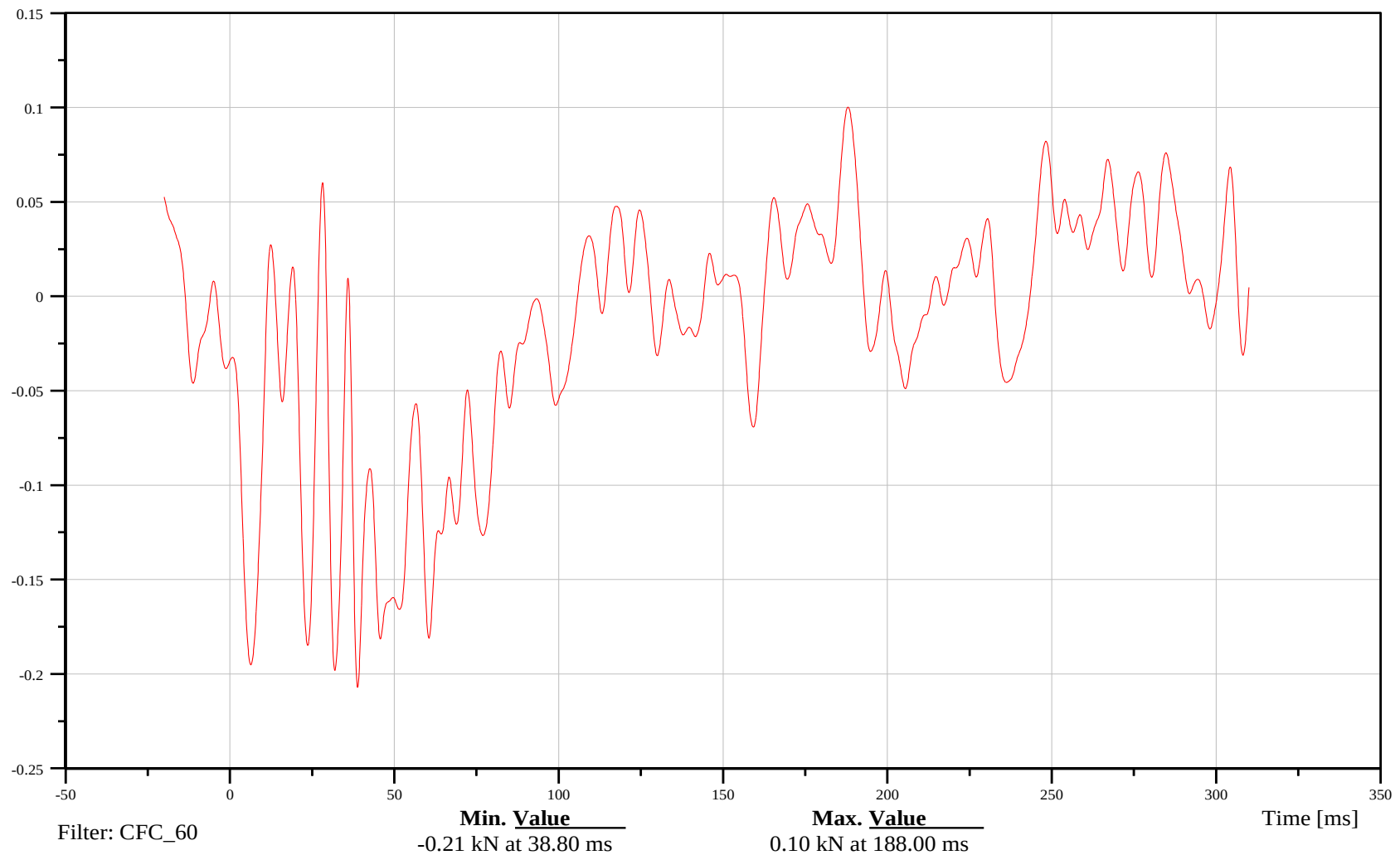
Date: 11/14/2013
Time: 15:28

BARRIER 3-4

Customer: VRTC
Test Number: 131114

B0FBAR030400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

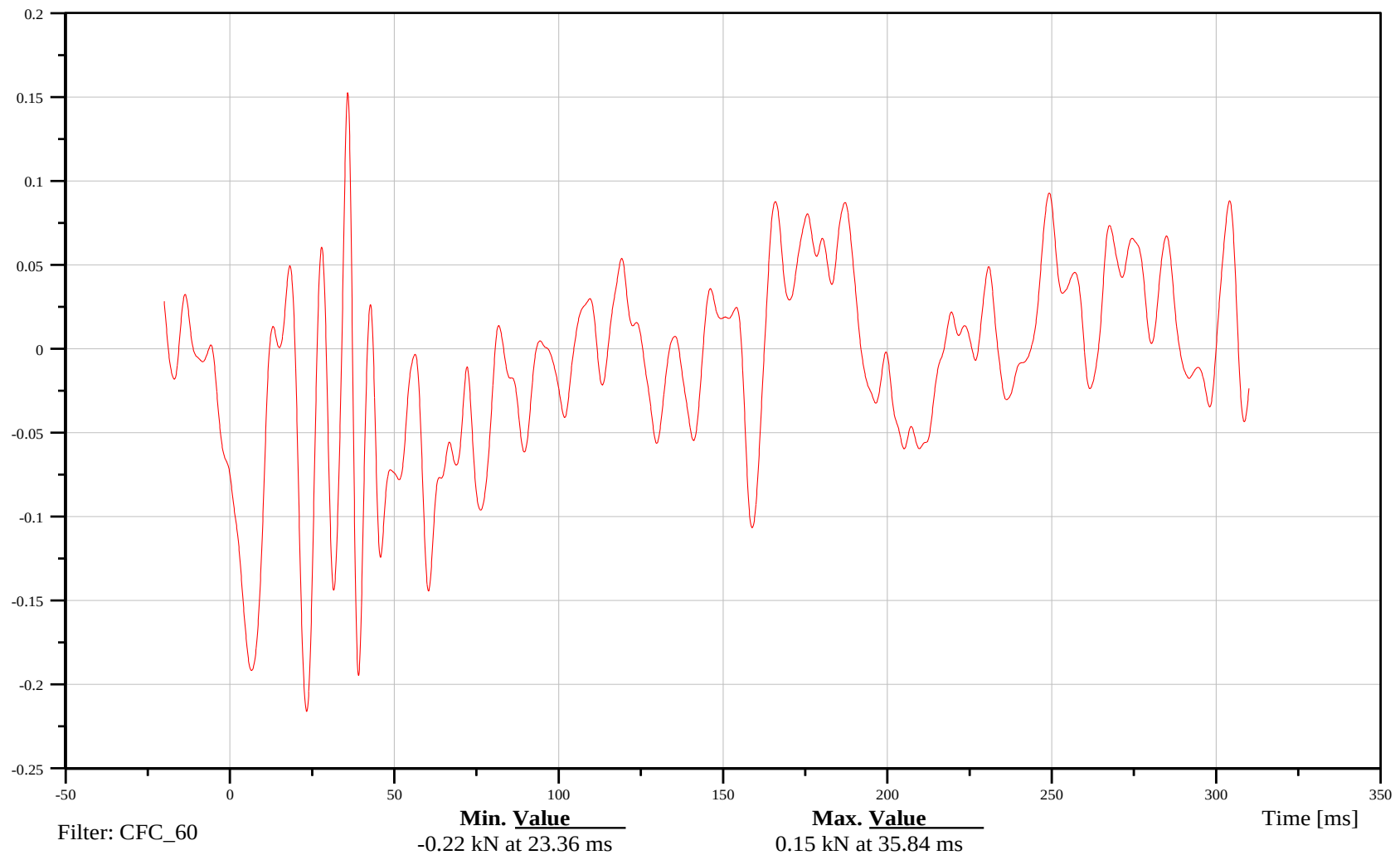
Date: 11/14/2013
Time: 15:28

BARRIER 3-5

Customer: VRTC
Test Number: 131114

B0FBAR030500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

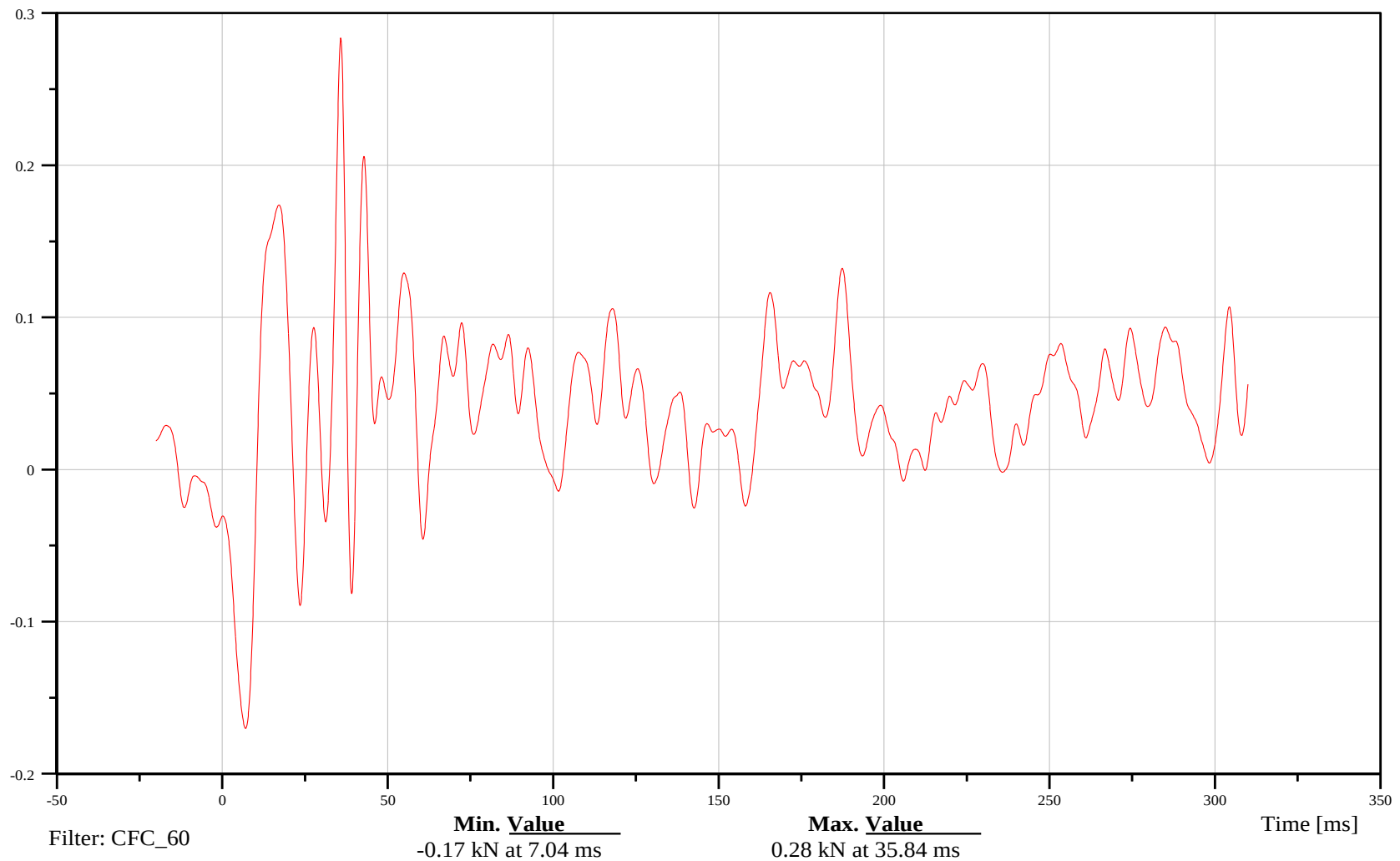
Date: 11/14/2013
Time: 15:28

BARRIER 3-6

Customer: VRTC
Test Number: 131114

B0FBAR030600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

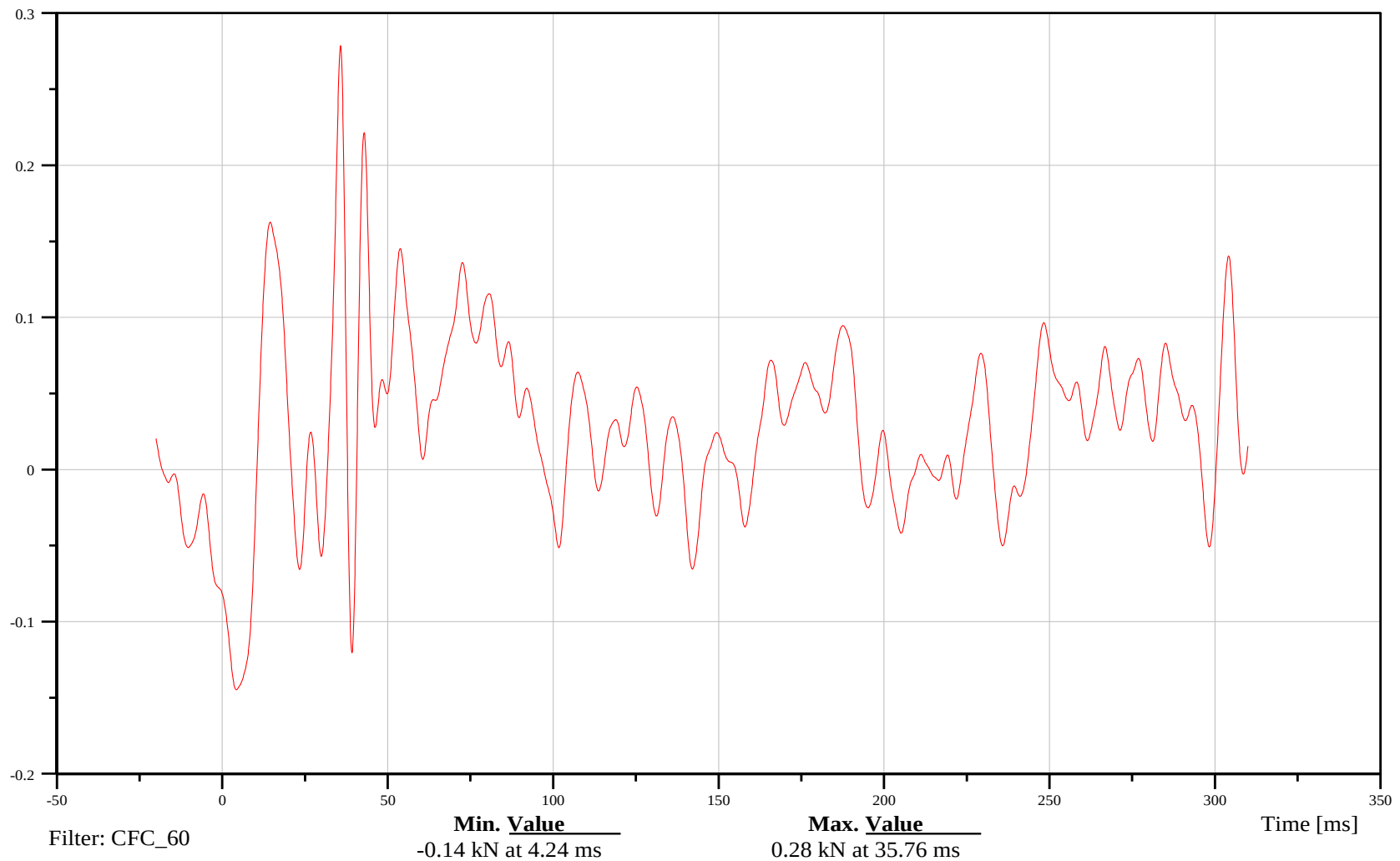
Date: 11/14/2013
Time: 15:28

BARRIER 3-7

Customer: VRTC
Test Number: 131114

B0FBAR030700FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

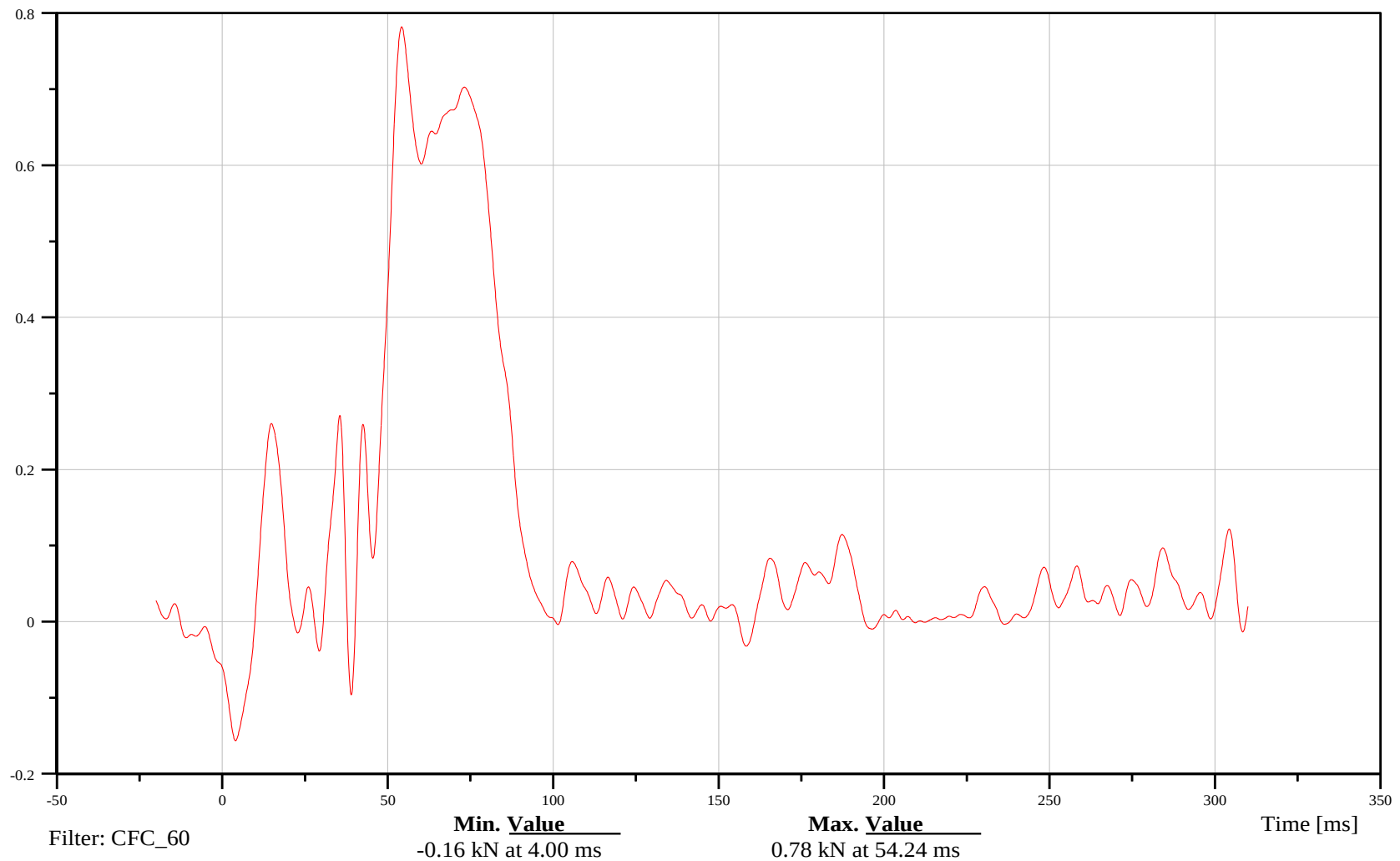
Date: 11/14/2013
Time: 15:28

BARRIER 3-8

Customer: VRTC
Test Number: 131114

B0FBAR030800FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

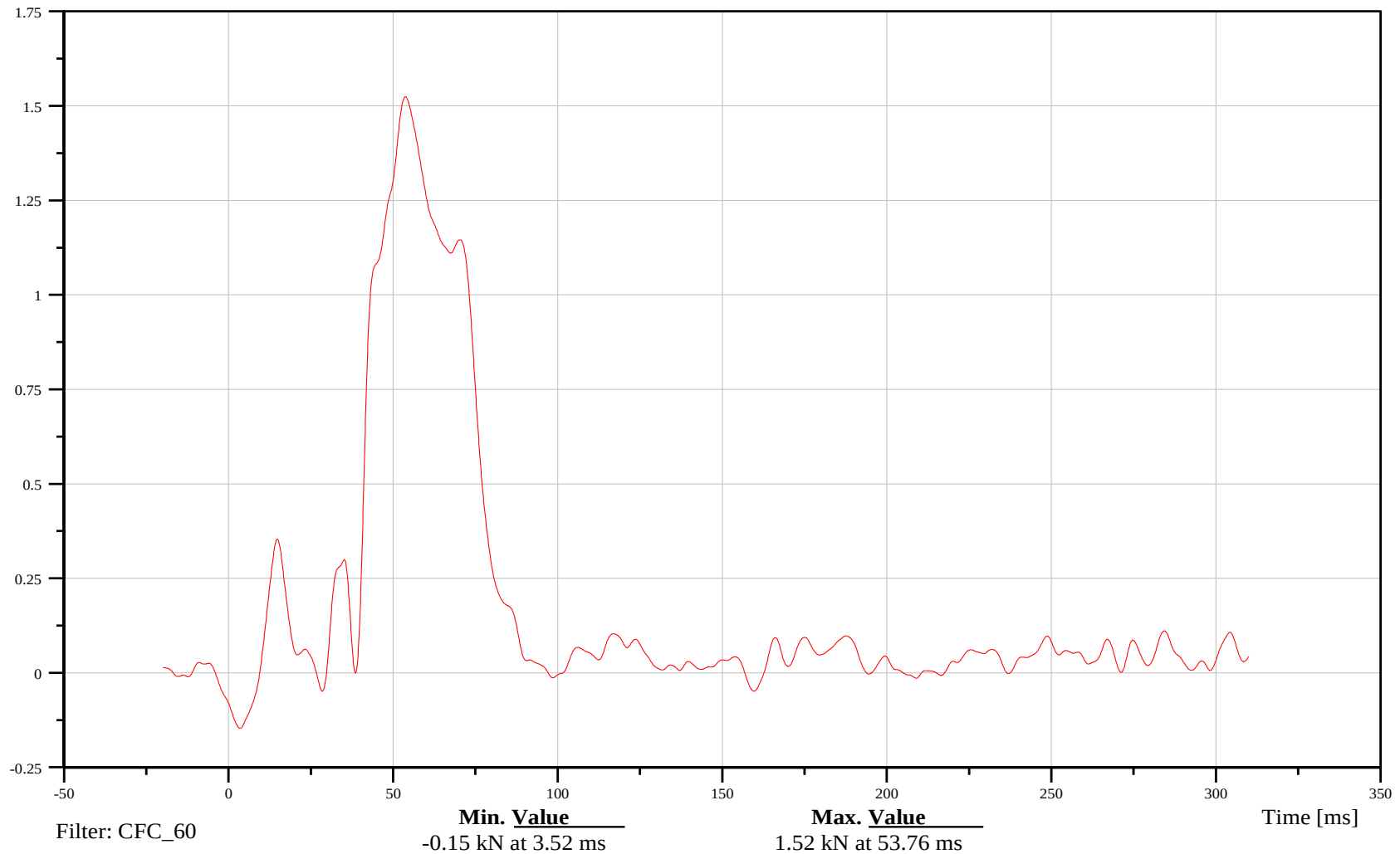
Date: 11/14/2013
Time: 15:28

BARRIER 3-9

Customer: VRTC
Test Number: 131114

B0FBAR030900FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

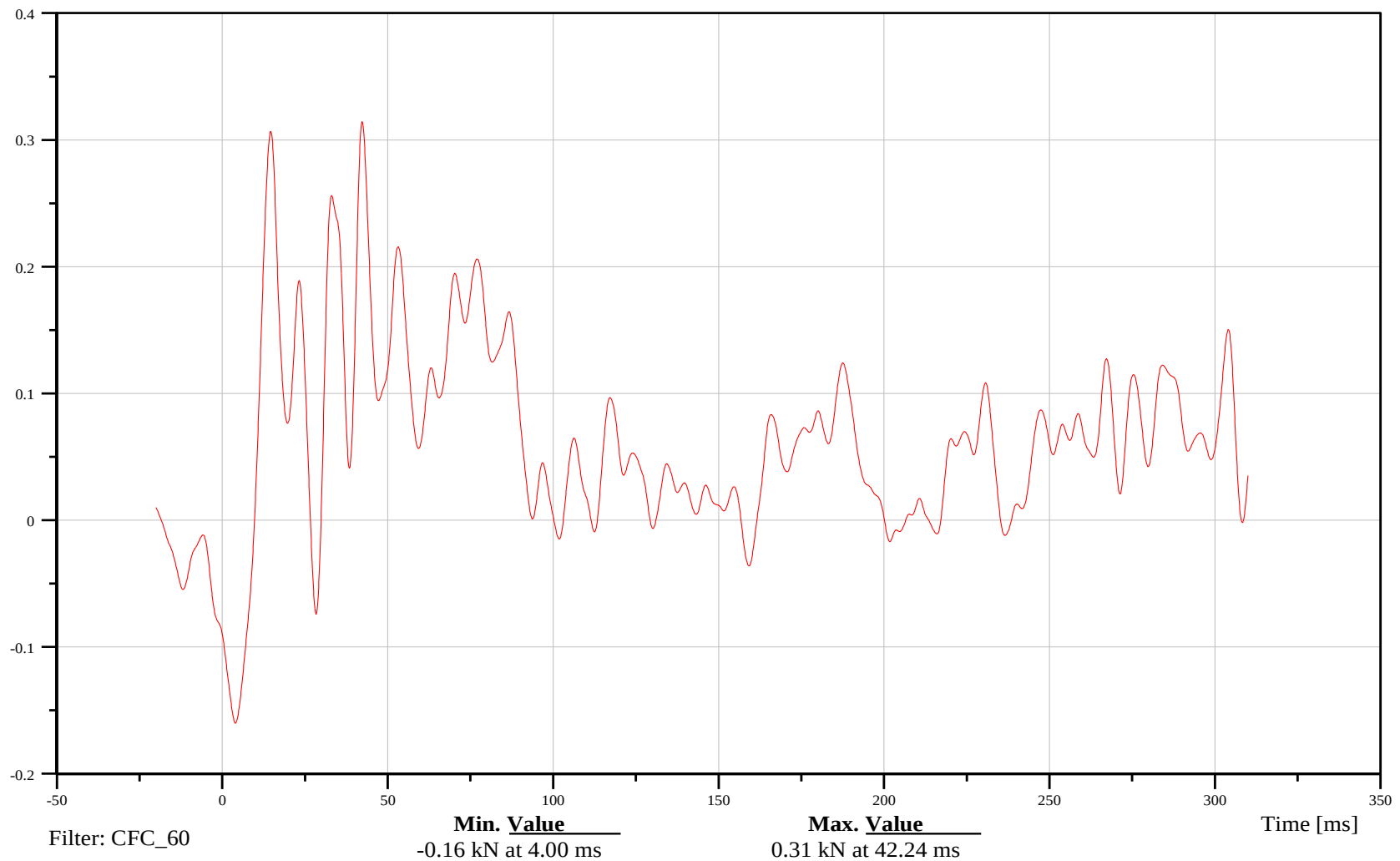
Date: 11/14/2013
Time: 15:28

BARRIER 3-10

Customer: VRTC
Test Number: 131114

B0FBAR031000FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

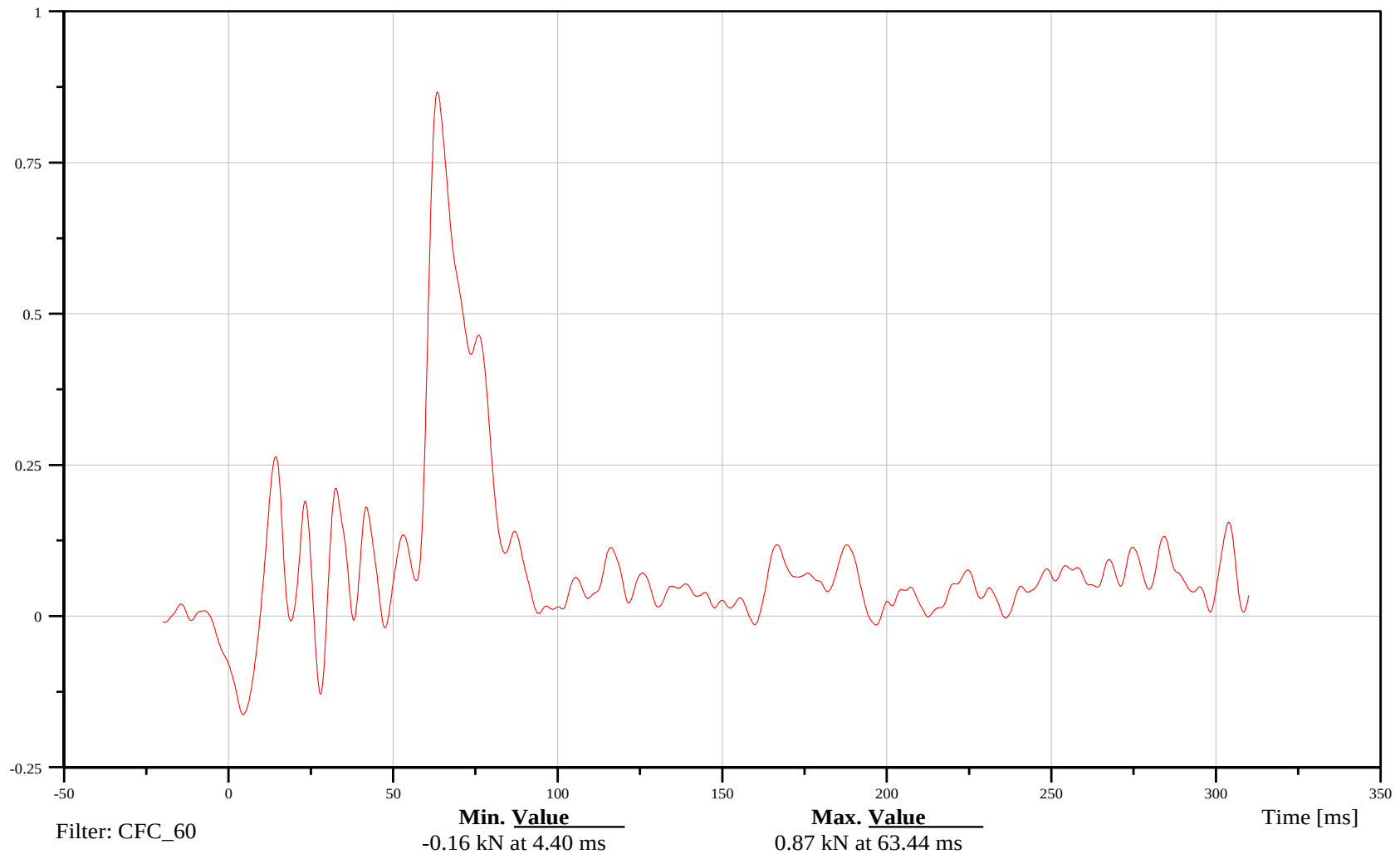
Date: 11/14/2013
Time: 15:28

BARRIER 3-11

Customer: VRTC
Test Number: 131114

B0FBAR031100FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

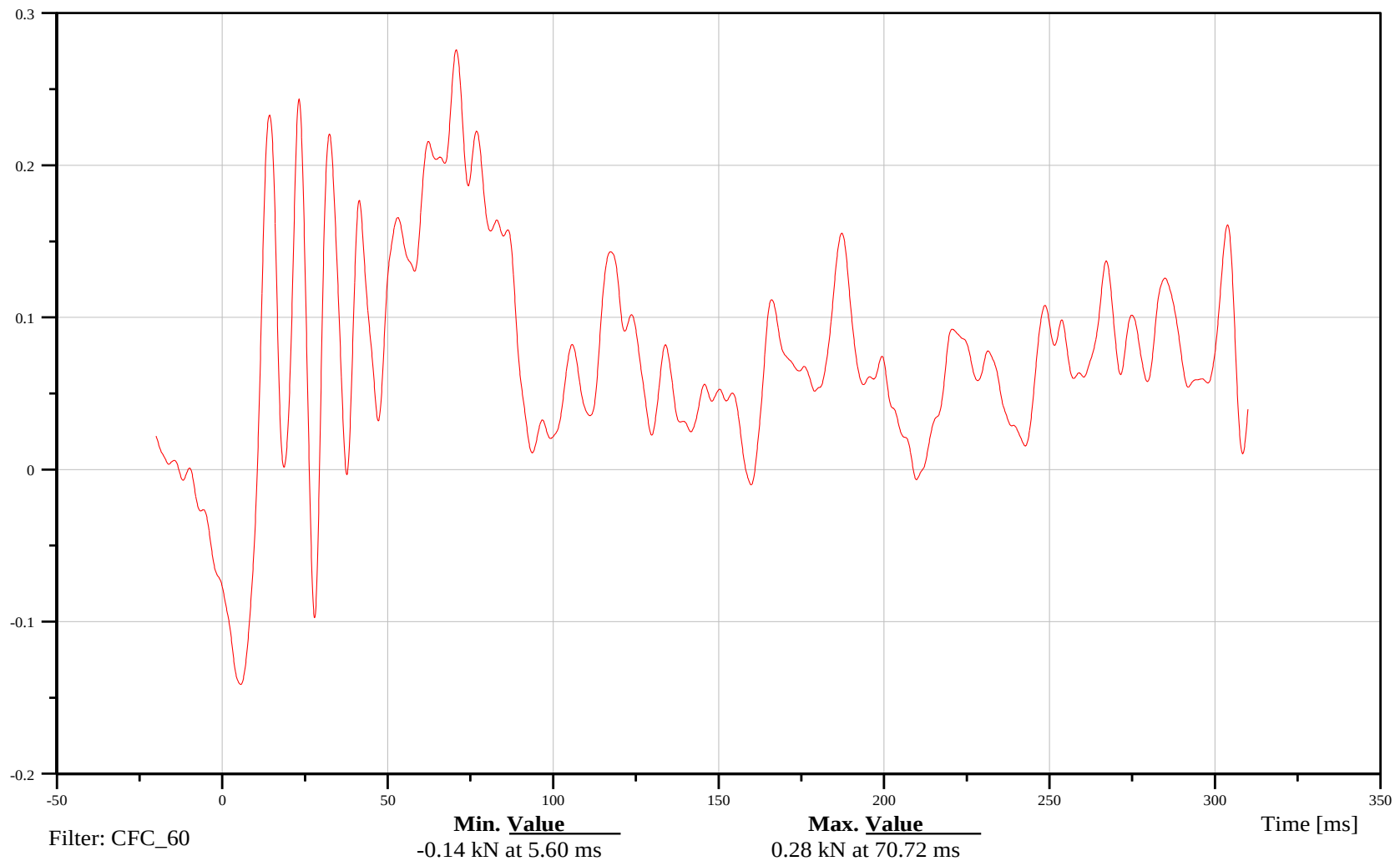
Date: 11/14/2013
Time: 15:28

BARRIER 3-12

Customer: VRTC
Test Number: 131114

B0FBAR031200FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

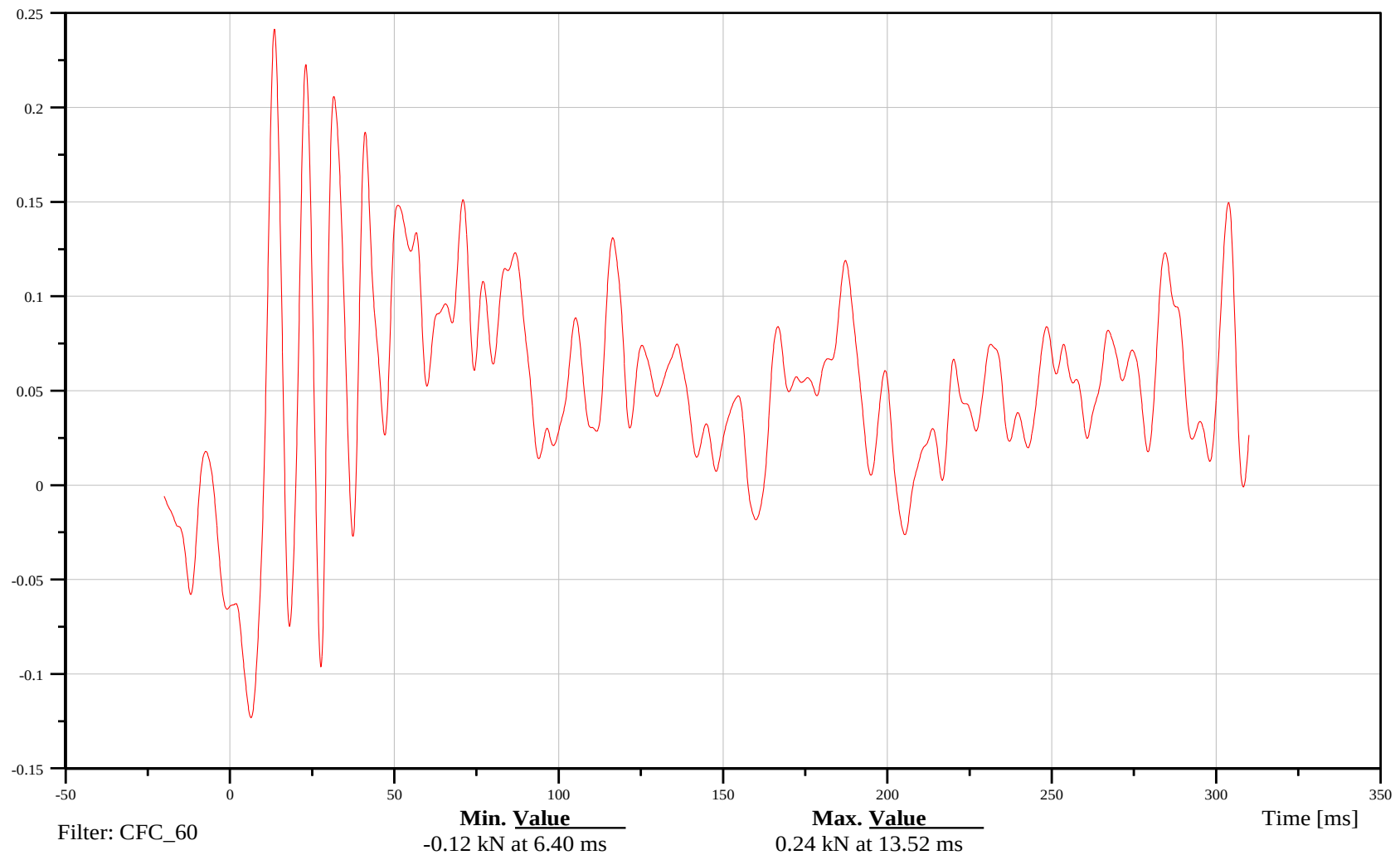
Date: 11/14/2013
Time: 15:28

BARRIER 3-13

Customer: VRTC
Test Number: 131114

B0FBAR031300FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

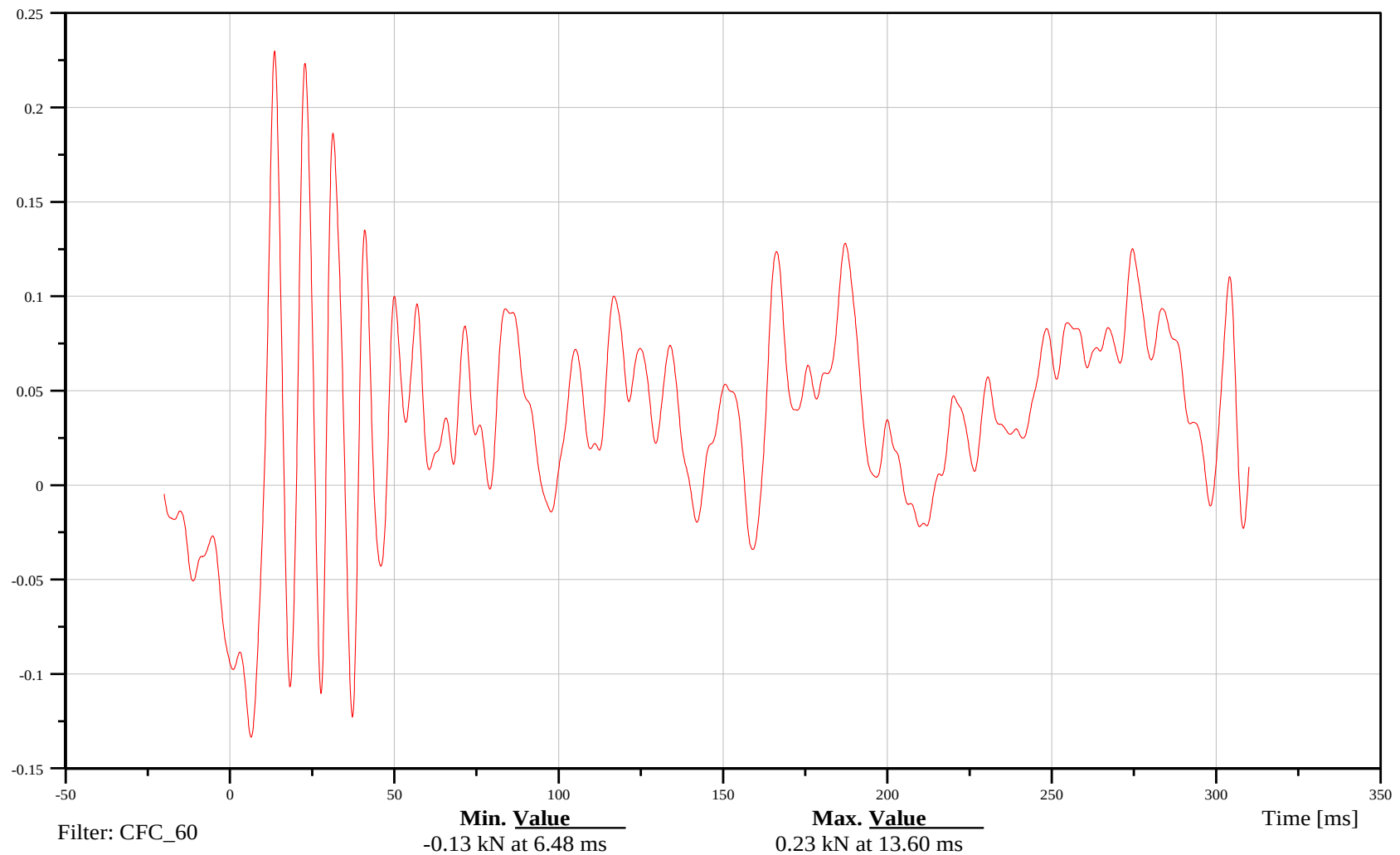
Date: 11/14/2013
Time: 15:28

BARRIER 3-14

Customer: VRTC
Test Number: 131114

B0FBAR031400FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

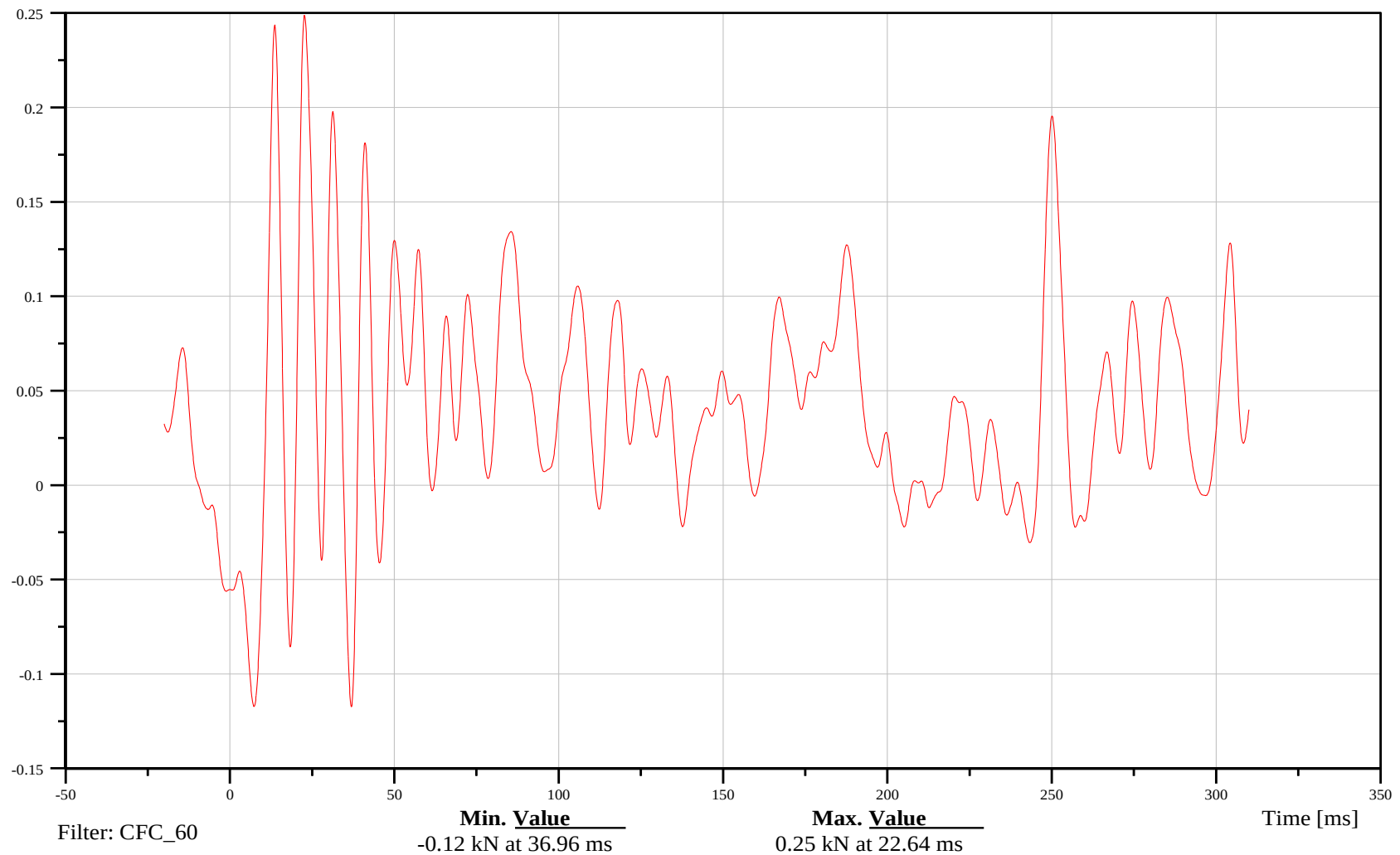
Date: 11/14/2013
Time: 15:28

BARRIER 3-15

Customer: VRTC
Test Number: 131114

B0FBAR031500FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114





2010 Toyota Venza Into 304-Channel Load Cell Barrier

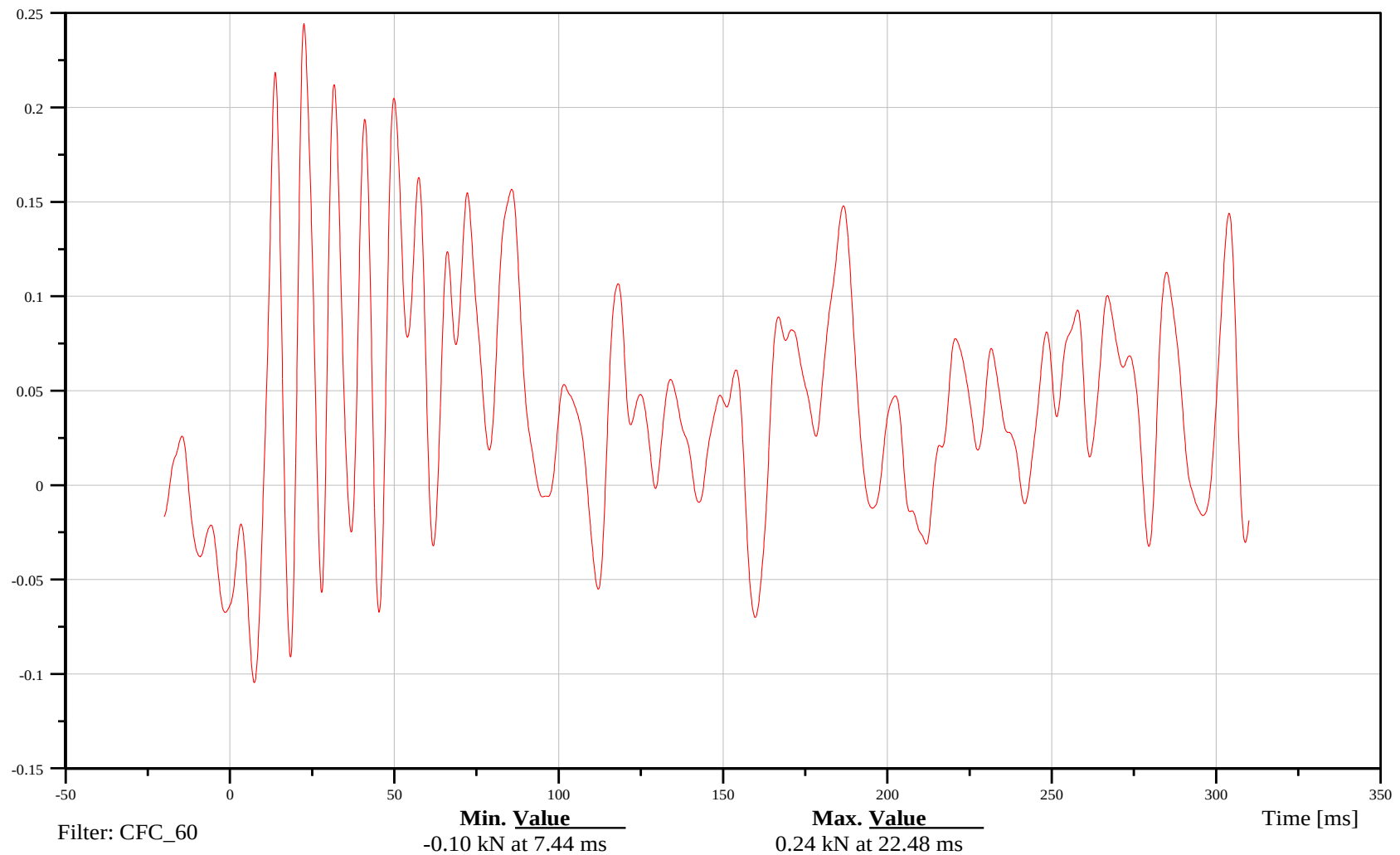
Date: 11/14/2013
Time: 15:28

BARRIER 3-16

Customer: VRTC
Test Number: 131114

B0FBAR031600FOXD

TRC Inc. Test Lab: CTF
Test Number: 131114



APPENDIX C
TEST EQUIPMENT LIST

Sign Convention
SAE J211 MAR95

Accelerometers:

+X: Forward
+Y: Rightward
+Z: Downward

Potentiometers:

+Chest longitudinal deflection: Outward
+Chest lateral deflection: Rightward
+Seat belt displacement: Outward
+Seat belt extension: Elongation
+Knee slider displacement: Distance between femur and tibia
increased
(in relation to a seated dummy)

Rotation potentiometers:

+About the X-axis: Left foot-eversion
Right foot-inversion
+About the Y-axis: Left/right foot-dorsiflexion
+About the Z-axis: Left foot-internal
Right foot-external

Load cells:

+Femur force: Tension
+Seat belt force: Tension
+Barrier force: Tension

Neck load cells:

+X force: Head pushed rearward
+Y force: Head pushed leftward
+Z force: Head pulled upward (tension on neck)
+X moment: Left ear rotating toward left shoulder
+Y moment: Chin rotating toward chest
+Z moment: Chin rotating toward left shoulder

Tibia load cells:

+X force: Ankle forward, knee rearward
+Y force: Ankle rightward, knee leftward
+Z force: Tension
+X moment: Bottom of tibia moving leftward
+Y moment: Bottom of tibia moving rearward

Lumbar load cells:

+X force: Chest rearward, pelvis forward

+Y force: Chest leftward, pelvis rightward
+Z force: Chest upward, pelvis downward
+X moment: Left shoulder toward left hip
+Y moment: Sternum toward front of legs
+Z moment: Right shoulder forward, left shoulder rearward

Frequency Response Classes
SAE J211 MAR95

<u>Typical Test Measurements</u>	<u>Channel Class</u>
Vehicle Structural Accelerations for use in:	
Total vehicle comparison	60
Collision simulation input	60
Component analysis	600
Integration for velocity or displacement	180
Barrier Face Forces	60
Belt Restraint System Loads	60
Anthropomorphic Test Device	
Head accelerations (linear and angular)	1000
Neck	
Forces	1000
Moments	600
Thorax	
Spine accelerations	180
Rib accelerations	1000
Sternum accelerations	1000
Deflections	600
Lumbar	
Forces	1000
Moments	1000
Pelvis	
Accelerations	1000
Forces	1000
Moments	1000
Femur/Knee/Tibia/Ankle	
Forces	600
Moments	600
Displacements	180
Sled Accelerations	60
Steering Column Loads	600
Head Form Accelerations	1000

The polarity column on the following sheets indicates whether a polarity change occurred during data acquisition to conform to J211 MAR95. See Report Sign Convention sheet for description of data output as presented in the report: occasionally channels have been adjusted in post-acquisition processing to conform to J211 MAR95.

Ref	Prep'ed Status	Channel Name	Transducer ID	Description	ISO Signal Identifier	Polarity	FScale	Filter	Units
1	Setup	DAU 7.Trigger	Trig D1	EVENT	10ZERO000000VO0A	Bipolar		1	0 Logic
2	Setup	DAU 7.01	P51978	Head Accel X	11HEADCG00HFACXA	-Bipolar	2000	2000	g
3	Setup	DAU 7.02	P64131	Head Accel Y	11HEADCG00HFACYA	-Bipolar	2000	2000	g
4	Setup	DAU 7.03	P51684	Head Accel Z	11HEADCG00HFACZA	-Bipolar	2000	2000	g
5	Setup	DAU 7.04	P58889	Head Red. Accel X	11HEADCGRDHFACXA	-Bipolar	2000	2000	g
6	Setup	DAU 7.05	P63845	Head Red. Accel Y	11HEADCGRDHFACYA	-Bipolar	2000	2000	g
7	Setup	DAU 7.06	P51725	Head Red. Accel Z	11HEADCGRDHFACZA	-Bipolar	2000	2000	g
8	Setup	DAU 7.07	ARS-12K-ARS0237	Head(DTS ARS) Rate Gyro X	11HEADCG00HFAVXA	Bipolar	12000	2000	°/s
9	Setup	DAU 7.08	ARS-12K-ARS2239	Head(DTS ARS) Rate Gyro Y	11HEADCG00HFAVYA	Bipolar	12000	2000	°/s
10	Setup	DAU 7.09	ARS-12K-ARS0236	Head(DTS ARS) Rate Gyro Z	11HEADCG00HFAVZA	Bipolar	12000	2000	°/s
11	Setup	DAU 7.10	1716A-269-FX	Neck Force X	11NECKUP00HFFOXA	-Bipolar	8896.4	2000	N
12	Setup	DAU 7.11	1716A-269-FY	Neck Force Y	11NECKUP00HFFOYA	Bipolar	8896.4	2000	N
13	Setup	DAU 7.12	1716A-269-FZ	Neck Force Z	11NECKUP00HFFOZA	Bipolar	13344.6	2000	N
14	Setup	DAU 7.13	1716A-269-MX	Neck Moment X	11NECKUP00HFMOXA	-Bipolar	282.5	2000	Nm
15	Setup	DAU 7.14	1716A-269-MY	Neck Moment Y	11NECKUP00HFMOYA	Bipolar	282.5	2000	Nm
16	Setup	DAU 7.15	1716A-269-MZ	Neck Moment Z	11NECKUP00HFMOZA	Bipolar	282.5	2000	Nm
17	Setup	DAU 7.16	P58714	Chest Accel X	11CHSTCG00HFACXA	Bipolar	2000	2000	g
18	Setup	DAU 7.17	P51697	Chest Accel Y	11CHSTCG00HFACYA	-Bipolar	2000	2000	g
19	Setup	DAU 7.18	P64149	Chest Accel Z	11CHSTCG00HFACZA	-Bipolar	2000	2000	g
20	Setup	DAU 7.19	P64143	Chest Red. Accel X	11CHSTCGRDHFACXA	-Bipolar	2000	2000	g
21	Setup	DAU 7.20	P51636	Chest Red. Accel Y	11CHSTCGRDHFACYA	-Bipolar	2000	2000	g
22	Setup	DAU 7.21	P58747	Chest Red. Accel Z	11CHSTCGRDHFACZA	-Bipolar	2000	2000	g
23	Setup	DAU 7.22	14CB1-2897-CST329	Chest Deflection X	11CHST0000HFD SXA	Bipolar	81	2000	mm
24	Setup	DAU 7.23	P52109	Pelvis Accel X	11PELVCG00HFACXA	-Bipolar	2000	2000	g
25	Setup	DAU 7.24	P64141	Pelvis Accel Y	11PELVCG00HFACYA	-Bipolar	2000	2000	g
26	Setup	DAU 7.25	P63853	Pelvis Accel Z	11PELVCG00HFACZA	-Bipolar	2000	2000	g
27	Setup	DAU 7.26	2121AJ-1714	Left Femur Force Z	11FEMRLU00HFFOZA	Bipolar	13340	2000	N
28	Setup	DAU 7.27	2121AJ-1702	Right Femur Force Z EXT P11	11FEMRRU00HFFOZA	Bipolar	13340	2000	N
29	Setup	DAU712.01	P76403	Left Rear Seat Crossmember/Sill X	10SILBLERE00ACXA	Bipolar	2000	2000	g
30	Setup	DAU712.02	P81082	Right Rear Seat Crossmember/Sill X	10SILBRIRE00ACXA	Bipolar	2000	2000	g
31	Setup	DAU712.03	P78111	Top of Engine X	11ENGNTPO000ACXA	-Bipolar	2000	2000	g
32	Setup	DAU712.04	P81500	Bottom of Engine X	11ENGNB00000ACXA	Bipolar	2000	2000	g
33	Setup	DAU712.05	P81533	Left Brake Front Caliper X	111CLPLE0000ACXA	Bipolar	2000	2000	g
34	Setup	DAU712.06	P81089	Right Brake Front Caliper X	131CLPRI0000ACXA	Bipolar	2000	2000	g
35	Setup	DAU712.07	P81083	Center of IP X	12DASH000000ACXA	-Bipolar	2000	2000	g
36	Setup [Bypass]	DAU712.08	K1506282A	Driver Belt Displacement	11SEBE0000B4DSXA	Bipolar	350	2000	mm
37	Setup [Bypass]	DAU712.09	EL20-S458-16KN-N100EC	Driver Lap Belt Force	11SEBE0000B6FO0A	Bipolar	16000	2000	N
38	Setup	DAU712.10	EL20-S458-16KN-N100E8	Driver Retractor Force	11SEBE0000B4FO0A	Bipolar	16000	2000	N
39	Setup	DAU712.11	EL20-S458-16kN-X08012	Driver Shoulder Belt Force	11SEBE0000B3FO0A	Bipolar	16000	2000	N
40	Setup	DAU712.12	P81090	Vehicle Rear Deck Z-axis Acceleration	102RDK000000ACZA	-Bipolar	2000	2000	g
41	Setup	DAU712.Digital	Bit.01	Driver Left knee Contact	11CONTKNEE01EV00	Bipolar	1	0	Logic
42	Setup	DAU712.Digital	Bit.02	Driver Right knee Contact	11CONTKNEE02EV00	Bipolar	1	0	Logic

1	BARRIER 10-1 FX	AB8617 Fx	N	300000	2_25_2010
2	BARRIER 10-1 My	AB8617 My	Nm	14025	2_25_2010
3	BARRIER 10-1 Mz	AB8617 Mz	Nm	14025	2_25_2010
4	BARRIER 10-2 FX	AB8565 Fx	N	300000	2_19_2010
5	BARRIER 10-2 My	AB8565 My	Nm	14025	2_19_2010
6	BARRIER 10-2 Mz	AB8565 Mz	Nm	14025	2_19_2010
7	BARRIER 10-3 FX	AB8616 FX	N	300000	3_22_2010
8	BARRIER 10-3 My	AB8616 My	Nm	14025	3_22_2010
9	BARRIER 10-3 Mz	AB8616 Mz	Nm	14025	3_22_2010
10	BARRIER 10-4 FX	AB8529 Fx	N	300000	2_24_2010
11	BARRIER 10-4 My	AB8529 My	Nm	14025	2_24_2010
12	BARRIER 10-4 Mz	AB8529 Mz	Nm	14025	2_24_2010
13	BARRIER 10-5 FX	AB8632 FX	N	300000	3_24_2010
14	BARRIER 10-5 My	AB8632 My	Nm	14025	3_24_2010
15	BARRIER 10-5 Mz	AB8632 Mz	Nm	14025	3_24_2010
16	BARRIER 10-6 FX	AB8598 Fx	N	300000	2_24_2010
17	BARRIER 10-6 My	AB8598 My	Nm	14025	2_24_2010
18	BARRIER 10-6 Mz	AB8598 Mz	Nm	14025	2_24_2010
19	BARRIER 10-7 FX	AB8606 FX	N	300000	2_25_2010
20	BARRIER 10-7 My	AB8606 My	Nm	14025	2_25_2010
21	BARRIER 10-7 Mz	AB8606 Mz	Nm	14025	2_25_2010
22	BARRIER 10-8 FX	AB8615 FX	N	300000	2_25_2010
23	BARRIER 10-8 My	AB8615 My	Nm	14025	2_25_2010
24	BARRIER 10-8 Mz	AB8615 Mz	Nm	14025	2_25_2010
25	BARRIER 10-9 FX	AB8650 FX	N	300000	3_25_2010
26	BARRIER 10-9 My	AB8650 My	Nm	14025	3_25_2010
27	BARRIER 10-9 Mz	AB8650 Mz	Nm	14025	3_25_2010
28	BARRIER 10-10 FX	AB8544 Fx	N	300000	2_24_2010
29	BARRIER 10-10 My	AB8544 My	Nm	14025	2_24_2010
30	BARRIER 10-10 Mz	AB8544 Mz	Nm	14025	2_24_2010
31	BARRIER 10-11 FX	AB8580 FX	N	300000	2_24_2010
32	BARRIER 10-11 My	AB8580 My	Nm	14025	2_24_2010
33	BARRIER 10-11 Mz	AB8580 Mz	Nm	14025	2_24_2010
34	BARRIER 10-12 FX	AB8548 Fx	N	300000	2_22_2010
35	BARRIER 10-12 My	AB8548 My	Nm	14025	2_22_2010
36	BARRIER 10-12 Mz	AB8548 Mz	Nm	14025	2_22_2010
37	BARRIER 10-13 FX	AB8527 FX	N	300000	2_22_2010
38	BARRIER 10-13 My	AB8527 My	Nm	14025	2_22_2010
39	BARRIER 10-13 Mz	AB8527 Mz	Nm	14025	2_22_2010
40	BARRIER 10-14 FX	AB8578 FX	N	300000	2_26_2010
41	BARRIER 10-14 My	AB8578 My	Nm	14025	2_26_2010
42	BARRIER 10-14 Mz	AB8578 Mz	Nm	14025	2_26_2010
43	BARRIER 10-15 FX	AB8625 Fx	N	300000	3_23_2010
44	BARRIER 10-15 My	AB8625 My	Nm	14025	3_23_2010
45	BARRIER 10-15 Mz	AB8625 Mz	Nm	14025	3_23_2010
46	BARRIER 10-16 FX	AB8546 Fx	N	300000	2_19_2010
47	BARRIER 10-16 My	AB8546 My	Nm	14025	2_19_2010
48	BARRIER 10-16 Mz	AB8546 Mz	Nm	14025	2_19_2010
49	BARRIER 11-1	398390074	KN	600	12_10_2003
50	BARRIER 11-3	398390041	KN	600	12_10_2003
51	BARRIER 11-2	398390033	KN	600	12_10_2003
52	BARRIER 11-4	398390059	KN	600	12_10_2003
53	BARRIER 11-5	398390023	KN	600	12_10_2003
54	BARRIER 11-6	398390085	KN	600	12_10_2003
55	BARRIER 11-7	398390102	KN	600	12_10_2003

56	BARRIER 11-8	398390131	KN	600	12_10_2003
57	BARRIER 11-9	398390098	KN	600	12_10_2003
58	BARRIER 11-10	398390128	KN	600	12_10_2003
59	BARRIER 11-11	398390088	KN	600	12_10_2003
60	BARRIER 11-12	398390104	KN	600	12_10_2003
61	BARRIER 11-13	398390077	KN	600	12_10_2003
62	BARRIER 11-14	398390068	KN	600	12_10_2003
63	BARRIER 11-15	398390062	KN	600	12_10_2003
64	BARRIER 11-16	398390012	KN	600	12_10_2003
65	BARRIER 9-1 FX	AB8536 Fx	N	300000	2_22_2010
66	BARRIER 9-1 My	AB8536 My	Nm	14025	2_22_2010
67	BARRIER 9-1 Mz	AB8536 Mz	Nm	14025	2_22_2010
68	BARRIER 9-2 FX	AB8501 FX	N	300000	2_22_2010
69	BARRIER 9-2 My	AB8501 My	Nm	14025	2_22_2010
70	BARRIER 9-2 Mz	AB8501 Mz	Nm	14025	2_22_2010
71	BARRIER 9-3 FX	AB8552 Fx	N	300000	2_24_2010
72	BARRIER 9-3 My	AB8552 My	Nm	14025	2_24_2010
73	BARRIER 9-4 FX	AB8512 Fx	N	300000	2_22_2010
74	BARRIER 9-4 My	AB8512 My	Nm	14025	2_22_2010
75	BARRIER 9-4 Mz	AB8512 Mz	Nm	14025	2_22_2010
76	BARRIER 9-5 FX	AB8557 FX	N	300000	2_23_2010
77	BARRIER 9-5 My	AB8557 My	Nm	14025	2_23_2010
78	BARRIER 9-5 Mz	AB8557 Mz	Nm	14025	2_23_2010
79	BARRIER 9-6 FX	AB8519 FX	N	300000	2_22_2010
80	BARRIER 9-6 My	AB8519 My	Nm	14025	2_22_2010
81	BARRIER 9-6 Mz	AB8519 Mz	Nm	14025	2_22_2010
82	BARRIER 9-7 FX	AB8637 Fx	N	300000	3_24_2010
83	BARRIER 9-7 My	AB8637 My	Nm	14025	3_24_2010
84	BARRIER 9-7 Mz	AB8637 Mz	Nm	14025	3_24_2010
85	BARRIER 9-8 FX	AB8640 Fx	N	300000	3_24_2010
86	BARRIER 9-8 My	AB8640 My	Nm	14025	3_24_2010
87	BARRIER 9-8 Mz	AB8640 Mz	Nm	14025	3_24_2010
88	BARRIER 9-9 FX	AB8635 FX	N	300000	3_24_2010
89	BARRIER 9-9 My	AB8635 My	Nm	14025	3_24_2010
90	BARRIER 9-9 Mz	AB8635 Mz	Nm	14025	3_24_2010
91	BARRIER 9-10 FX	AB8532 FX	N	300000	2_22_2010
92	BARRIER 9-10 My	AB8532 My	Nm	14025	2_22_2010
93	BARRIER 9-10 Mz	AB8532 Mz	Nm	14025	2_22_2010
94	BARRIER 9-11 FX	AB8561 Fx	N	300000	2_23_2010
95	BARRIER 9-11 My	AB8561 My	Nm	14025	2_23_2010
96	BARRIER 9-11 Mz	AB8561 Mz	Nm	14025	2_23_2010
97	BARRIER 9-3 Mz	AB8552 Mz	Nm	14025	2_24_2010
98	BARRIER 9-12 FX	AB8509 Fx	N	300000	2_22_2010
99	BARRIER 9-12 My	AB8509 My	Nm	14025	2_22_2010
100	BARRIER 9-12 Mz	AB8509 Mz	Nm	14025	2_22_2010
101	BARRIER 9-13 FX	AB8605 FX	N	300000	2_17_2010
102	BARRIER 9-13 MY	AB8605 MY	Nm	14025	2_17_2010
103	BARRIER 9-13 Mz	AB8605 Mz	Nm	14025	2_17_2010
104	BARRIER 9-14 FX	AB8514 Fx	N	300000	2_22_2010
105	BARRIER 9-14 My	AB8514 My	Nm	14025	2_22_2010
106	BARRIER 9-14 Mz	AB8514 Mz	Nm	14025	2_22_2010
107	BARRIER 9-15 FX	AB8634 FX	N	300000	3_24_2010
108	BARRIER 9-15 My	AB8634 My	Nm	14025	3_24_2010
109	BARRIER 9-15 Mz	AB8634 Mz	Nm	14025	3_24_2010
110	BARRIER 9-16 FX	AB8629 Fx	N	300000	3_13_2010

111	BARRIER 9-16 My	AB8629 My	Nm	14025	3_13_2010
112	BARRIER 9-16 Mz	AB8629 Mz	Nm	14025	3_13_2010
113	BARRIER 6-1	398390087	KN	600	12_10_2003
114	BARRIER 6-2	398390092	KN	600	12_10_2003
115	BARRIER 6-3	398390127	KN	600	12_10_2003
116	BARRIER 6-4	398390076	KN	600	12_10_2003
117	BARRIER 6-5	398390057	KN	600	12_10_2003
118	BARRIER 6-6	398390107	KN	600	12_10_2003
119	BARRIER 6-7	398390030	KN	600	12_10_2003
120	BARRIER 6-8	398390016	KN	600	12_10_2003
121	BARRIER 6-9	398390078	KN	600	12_10_2003
122	BARRIER 6-10	398390072	KN	600	12_10_2003
123	BARRIER 6-11	398390055	KN	600	12_10_2003
124	BARRIER 6-12	398390134	KN	600	11_13_2003
125	BARRIER 6-13	398390115	KN	600	12_10_2003
126	BARRIER 6-14	398390049	KN	600	12_10_2003
127	BARRIER 6-15	398390025	KN	600	12_10_2003
128	BARRIER 6-16	398390064	KN	600	12_10_2003
129	BARRIER 8-1 FX	AB8607 FX	N	300000	3_22_2010
130	BARRIER 8-1 My	AB8607 My	Nm	14025	3_22_2010
131	BARRIER 8-1 Mz	AB8607 Mz	Nm	14025	3_22_2010
132	BARRIER 8-2 FX	AB8585 FX	N	300000	2_12_2010
133	BARRIER 8-2 My	AB8585 My	Nm	14025	2_12_2010
134	BARRIER 8-2 Mz	AB8585 Mz	Nm	14025	2_12_2010
135	BARRIER 8-3 FX	AB8631 Fx	N	300000	3_24_2010
136	BARRIER 8-3 My	AB8631 My	Nm	14025	3_24_2010
137	BARRIER 8-3 Mz	AB8631 Mz	Nm	14025	3_24_2010
138	BARRIER 8-4 FX	AB8630 FX	N	300000	3_23_2010
139	BARRIER 8-4 My	AB8630 My	Nm	14025	3_23_2010
140	BARRIER 8-4 Mz	AB8630 Mz	Nm	14025	3_23_2010
141	BARRIER 8-5 FX	AB8555 Fx	N	300000	2_23_2010
142	BARRIER 8-5 My	AB8555 My	Nm	14025	2_23_2010
143	BARRIER 8-5 Mz	AB8555 Mz	Nm	14025	2_23_2010
144	BARRIER 8-6 FX	AB8510 FX	N	300000	2_22_2010
145	BARRIER 8-6 My	AB8510 My	Nm	14025	2_22_2010
146	BARRIER 8-6 Mz	AB8510 Mz	Nm	14025	2_22_2010
147	BARRIER 8-7 FX	AB8528 Fx	N	300000	2_22_2010
148	BARRIER 8-7 My	AB8528 My	Nm	14025	2_22_2010
149	BARRIER 8-7 Mz	AB8528 Mz	Nm	14025	2_22_2010
150	BARRIER 8-8 FX	AB8624 Fx	N	300000	3_13_2010
151	BARRIER 8-8 My	AB8624 My	Nm	14025	3_13_2010
152	BARRIER 8-8 Mz	AB8624 Mz	Nm	14025	3_13_2010
153	BARRIER 8-9 FX	AB8537 Fx	N	300000	2_24_2010
154	BARRIER 8-9 My	AB8537 My	Nm	14025	2_24_2010
155	BARRIER 8-9 Mz	AB8537 Mz	Nm	14025	2_24_2010
156	BARRIER 8-10 FX	AB8520 Fx	N	300000	2_23_2010
157	BARRIER 8-10 My	AB8520 My	Nm	14025	2_23_2010
158	BARRIER 8-10 Mz	AB8520 Mz	Nm	14025	2_23_2010
159	BARRIER 8-11 FX	AB8621 FX	N	300000	3_22_2010
160	BARRIER 8-11 My	AB8621 My	Nm	14025	3_22_2010
161	BARRIER 8-11 Mz	AB8621 Mz	Nm	14025	3_22_2010
162	BARRIER 8-12 FX	AB8551 Fx	N	300000	2_24_2010
163	BARRIER 8-12 My	AB8551 My	Nm	14025	2_24_2010
164	BARRIER 8-12 Mz	AB8551 Mz	Nm	14025	2_24_2010
165	BARRIER 8-13 FX	AB8610 FX	N	300000	2_25_2010

166	BARRIER 8-13 My	AB8610 My	Nm	14025	2_25_2010
167	BARRIER 8-13 Mz	AB8610 Mz	Nm	14025	2_25_2010
168	BARRIER 8-14 FX	AB8614 Fx	N	300000	2_25_2010
169	BARRIER 8-14 My	AB8614 My	Nm	14025	2_25_2010
170	BARRIER 8-14 Mz	AB8614 Mz	Nm	14025	2_25_2010
171	BARRIER 8-15 FX	AB8613 Fx	N	300000	2_25_2010
172	BARRIER 8-15 My	AB8613 My	Nm	14025	2_25_2010
173	BARRIER 8-15 Mz	AB8613 Mz	Nm	14025	2_25_2010
174	BARRIER 8-16 FX	AB8558 Fx	N	300000	2_23_2010
175	BARRIER 8-16 My	AB8558 My	Nm	14025	2_23_2010
176	BARRIER 8-16 Mz	AB8558 Mz	Nm	14025	2_23_2010
177	BARRIER 5-1	398390038	KN	600	12_10_2003
178	BARRIER 5-2	398390083	KN	600	12_10_2003
179	BARRIER 5-3	398390018	KN	600	12_10_2003
180	BARRIER 5-4	398390042	KN	600	12_10_2003
181	BARRIER 5-5	398390084	KN	600	12_10_2003
182	BARRIER 5-6	398390099	KN	600	12_10_2003
183	BARRIER 5-7	398390089	KN	600	12_10_2003
184	BARRIER 5-8	398390029	KN	600	12_10_2003
185	BARRIER 5-9	398390129	KN	600	12_10_2003
186	BARRIER 5-10	398390067	KN	600	12_10_2003
187	BARRIER 5-11	398390094	KN	600	12_10_2003
188	BARRIER 5-12	398390054	KN	600	12_10_2003
189	BARRIER 5-13	398390063	KN	600	12_10_2003
190	BARRIER 5-14	398390046	KN	600	12_10_2003
191	BARRIER 5-15	398390052	KN	600	12_10_2003
192	BARRIER 5-16	398390081	KN	600	12_10_2003
193	BARRIER 7-1 FX	5104 Fx	N	300000	2_23_2010
194	BARRIER 7-1 My	5104 My	Nm	14025	2_23_2010
195	BARRIER 7-1 Mz	5104 Mz	Nm	14025	2_23_2010
196	BARRIER 7-2 FX	AB8547 Fx	N	300000	2_24_2010
197	BARRIER 7-2 My	AB8547 My	Nm	14025	2_24_2010
198	BARRIER 7-2 Mz	AB8547 Mz	Nm	14025	2_24_2010
199	BARRIER 7-3 FX	AB8592 FX	N	300000	2_17_2010
200	BARRIER 7-3 My	AB8592 My	Nm	14025	2_17_2010
201	BARRIER 7-3 Mz	AB8592 Mz	Nm	14025	2_17_2010
202	BARRIER 7-4 FX	AB8533 Fx	N	300000	2_24_2010
203	BARRIER 7-4 My	AB8533 My	Nm	14025	2_24_2010
204	BARRIER 7-4 Mz	AB8533 Mz	Nm	14025	2_24_2010
205	BARRIER 7-5 FX	AB8540 Fx	N	300000	2_24_2010
206	BARRIER 7-5 My	AB8540 My	Nm	14025	2_24_2010
207	BARRIER 7-5 Mz	AB8540 Mz	Nm	14025	2_24_2010
208	BARRIER 7-6 FX	AB8531 FX	N	300000	2_22_2010
209	BARRIER 7-6 My	AB8531 My	Nm	14025	2_22_2010
210	BARRIER 7-6 Mz	AB8531 Mz	Nm	14025	2_22_2010
211	BARRIER 7-7 FX	AB8589 Fx	N	300000	2_16_2010
212	BARRIER 7-7 My	AB8589 My	Nm	14025	2_16_2010
213	BARRIER 7-7 Mz	AB8589 Mz	Nm	14025	2_16_2010
214	BARRIER 7-8 FX	AB8570 Fx	N	300000	2_19_2010
215	BARRIER 7-8 My	AB8570 My	Nm	14025	2_19_2010
216	BARRIER 7-8 Mz	AB8570 Mz	Nm	14025	2_19_2010
217	BARRIER 7-9 FX	AB8562 FX	N	300000	2_19_2010
218	BARRIER 7-9 My	AB8562 My	Nm	14025	2_19_2010
219	BARRIER 7-9 Mz	AB8562 Mz	Nm	14025	2_19_2010
220	BARRIER 7-10 FX	AB8601 FX	N	300000	2_19_2010

221	BARRIER 7-10 My	AB8601 My	Nm	14025	2_19_2010
222	BARRIER 7-10 Mz	AB8601 Mz	Nm	14025	2_19_2010
223	BARRIER 7-11 FX	AB8590 Fx	N	300000	2_17_2010
224	BARRIER 7-11 My	AB8590 My	Nm	14025	2_17_2010
225	BARRIER 7-11 Mz	AB8590 Mz	Nm	14025	2_17_2010
226	BARRIER 7-12 FX	AB8619 Fx	N	300000	2_26_2010
227	BARRIER 7-12 My	AB8619 My	Nm	14025	2_26_2010
228	BARRIER 7-12 Mz	AB8619 Mz	Nm	14025	2_26_2010
229	BARRIER 7-13 FX	AB8618 FX	N	300000	2_25_2010
230	BARRIER 7-13 My	AB8618 My	Nm	14025	2_25_2010
231	BARRIER 7-13 Mz	AB8618 Mz	Nm	14025	2_25_2010
232	BARRIER 7-14 FX	AB8549 Fx	N	300000	3_25_2010
233	BARRIER 7-14 My	AB8549 My	Nm	14025	3_25_2010
234	BARRIER 7-14 Mz	AB8549 Mz	Nm	14025	3_25_2010
235	BARRIER 7-15 FX	AB8523 FX	N	300000	2_19_2010
236	BARRIER 7-15 My	AB8523 My	Nm	14025	2_19_2010
237	BARRIER 7-15 Mz	AB8523 Mz	Nm	14025	2_19_2010
238	BARRIER 7-16 FX	AB8603 FX	N	300000	2_17_2010
239	BARRIER 7-16 My	AB8603 My	Nm	14025	2_17_2010
240	BARRIER 7-16 Mz	AB8603 Mz	Nm	14025	2_17_2010
241	BARRIER 4-1	398390003	KN	600	12_10_2003
242	BARRIER 4-2	398390015	KN	600	12_10_2003
243	BARRIER 4-3	398390009	KN	600	12_10_2003
244	BARRIER 4-4	398390040	KN	600	12_10_2003
245	BARRIER 4-5	398390069	KN	600	12_10_2003
246	BARRIER 4-6	398390100	KN	600	12_10_2003
247	BARRIER 4-7	398390112	KN	600	12_10_2003
248	BARRIER 4-8	398390075	KN	600	12_10_2003
249	BARRIER 4-9	398390091	KN	600	12_10_2003
250	BARRIER 4-10	398390053	KN	600	12_10_2003
251	BARRIER 4-11	398390117	KN	600	12_10_2003
252	BARRIER 4-12	398390032	KN	600	12_10_2003
253	BARRIER 4-13	398390014	KN	600	12_10_2003
254	BARRIER 4-14	398390090	KN	600	12_10_2003
255	BARRIER 4-15	398390079	KN	600	12_10_2003
256	BARRIER 4-16	398390071	KN	600	12_10_2003
257	BARRIER 2-1	398390109	KN	600	12_10_2003
258	BARRIER 2-2	398390027	KN	600	12_10_2003
259	BARRIER 2-3	398390034	KN	600	12_10_2003
260	BARRIER 2-4	398390019	KN	600	12_10_2003
261	BARRIER 2-5	398390035	KN	600	12_10_2003
262	BARRIER 2-6	398390113	KN	600	12_10_2003
263	BARRIER 2-7	398390105	KN	600	12_10_2003
264	BARRIER 2-8	398390114	KN	600	12_10_2003
265	BARRIER 2-9	398390120	KN	600	12_10_2003
266	BARRIER 2-10	398390044	KN	600	12_10_2003
267	BARRIER 2-11	398390008	KN	600	12_10_2003
268	BARRIER 2-12	398390051	KN	600	12_10_2003
269	BARRIER 2-13	398390007	KN	600	12_10_2003
270	BARRIER 2-14	398390037	KN	600	12_10_2003
271	BARRIER 2-15	398390070	KN	600	12_10_2003
272	BARRIER 2-16	398390110	KN	600	12_10_2003
273	BARRIER 3-1	398390093	KN	600	12_10_2003
274	BARRIER 3-2	398390108	KN	600	12_10_2003
275	BARRIER 3-3	398390024	KN	600	12_10_2003

276	BARRIER 3-4	398390045	KN	600	12_10_2003
277	BARRIER 3-5	398390011	KN	600	12_10_2003
278	BARRIER 3-6	398390123	KN	600	12_10_2003
279	BARRIER 3-7	398390036	KN	600	12_10_2003
280	BARRIER 3-8	398390048	KN	600	12_10_2003
281	BARRIER 3-9	398390111	KN	600	12_10_2003
282	BARRIER 3-10	398390039	KN	600	12_10_2003
283	BARRIER 3-11	398390013	KN	600	12_10_2003
284	BARRIER 3-12	398390017	KN	600	12_10_2003
285	BARRIER 3-13	398390020	KN	600	12_10_2003
286	BARRIER 3-14	398390097	KN	600	12_10_2003
287	BARRIER 3-15	398390004	KN	600	12_10_2003
288	BARRIER 3-16	398390125	KN	600	12_10_2003

APPENDIX D
DUMMY CALIBRATION CERTIFICATION

Transportation Research Center Inc.

ATD Calibration Report

for

VRTC

HIII 5th Serial No. 329
Calibration No. 19



Transportation Research Center Inc.
P.O. Box B-67
10820 St. Rt. 347
East Liberty, OH 43319-0367

Transportation Research Center Inc.

Front Head Drop

HIII 5th Serial No. 329 Certification No. 19-1

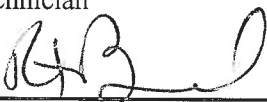
Test Date: 11/12/2013

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.5 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	36 %	Yes
Peak Head Resultant Acceleration	250 - 300 g	279.9 g	Yes
Peak Head Lateral Acceleration	(-15) - 15 g	5.1 g	Yes
Is Acceleration Curve Unimodal within 10% of Peak?	Yes	Yes	Yes

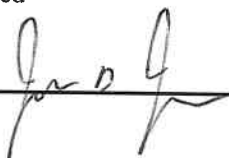
Test meets specifications.

Comments:

Technician



Approved



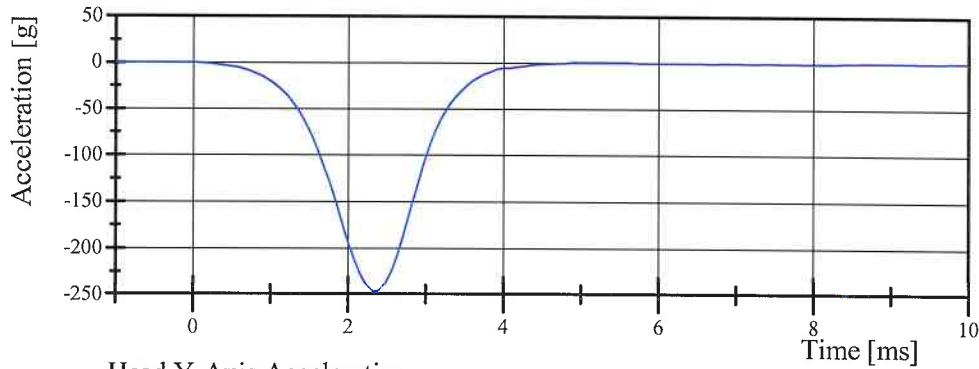
Transportation Research Center Inc.

Front Head Drop

HIII 5th Serial No. 329 Certification No. 19-1

Test Date: 11/12/2013

Head X-Axis Acceleration

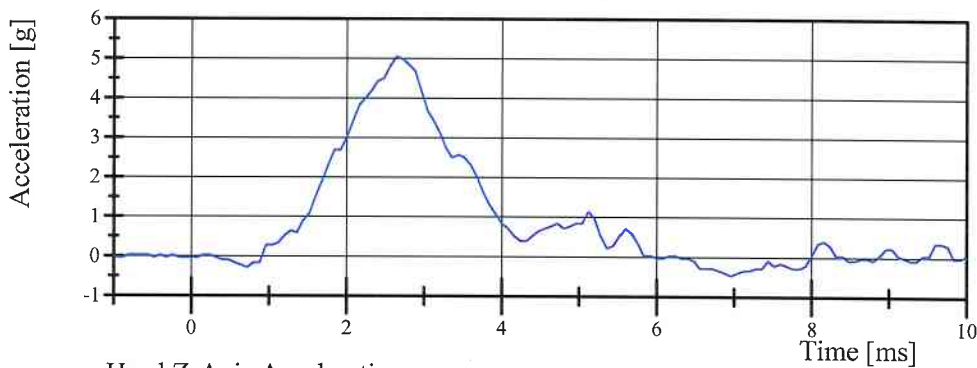


Filter Class: CFC_1000

Max: 0.7 g at 5.0 ms

Min: -246.6 g at 2.3 ms

Head Y-Axis Acceleration

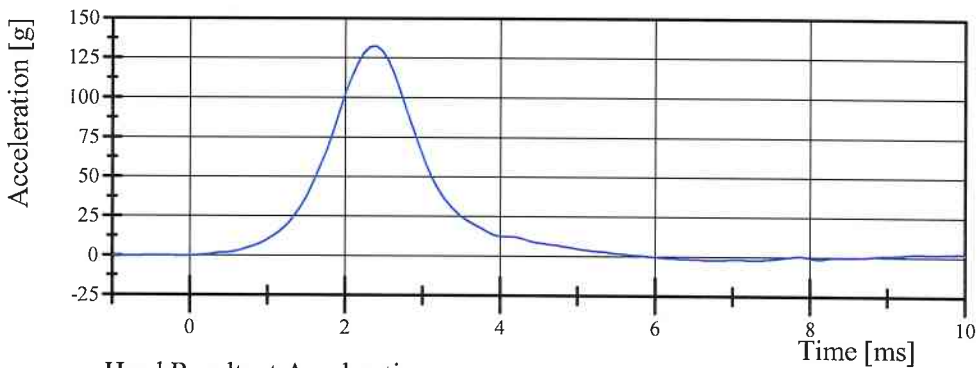


Filter Class: CFC_1000

Max: 5.1 g at 2.6 ms

Min: -0.5 g at 7.0 ms

Head Z-Axis Acceleration

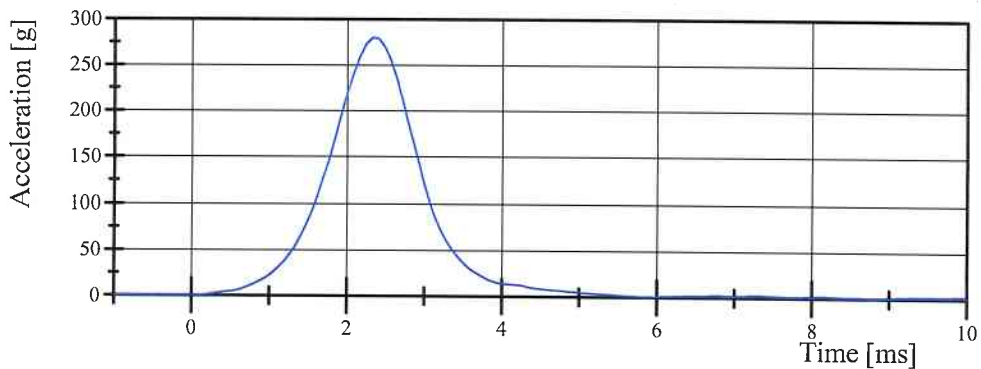


Filter Class: CFC_1000

Max: 132.7 g at 2.4 ms

Min: -2.2 g at 6.7 ms

Head Resultant Acceleration



Filter Class: CFC_1000

Max: 279.9 g at 2.3 ms

Min: 0.0 g at -0.6 ms

Transportation Research Center Inc.

Neck Flexion

HIII 5th Serial No. 329 Certification No. 19-1

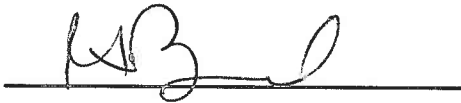
Test Date: 11/12/2013

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	32 %	Yes
Pendulum Velocity	6.89 - 7.13 m/s	7.052 m/s	Yes
Pendulum Integrated Velocity Change at 10ms	(-2.1) - (-2.5) m/s	-2.45 m/s	Yes
Pendulum Integrated Velocity Change at 20ms	(-4.0) - (-5.0) m/s	-4.72 m/s	Yes
Pendulum Integrated Velocity Change at 30ms	(-5.8) - (-7.0) m/s	-6.68 m/s	Yes
Total Head D-Plane Rotation	(-77) - (-91) °	-79.3 °	Yes
Total Neck Occipital Condyles Moment Between -77° and -91° Rotation	69 - 83 N·m	72.7 N·m	Yes
Total Neck Occipital Condyles Moment Decay to 10 N·m	80 - 100 ms	84.6 ms	Yes

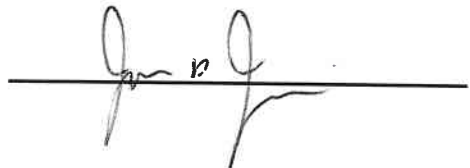
Test meets specifications.

Comments:

Technician



Approved



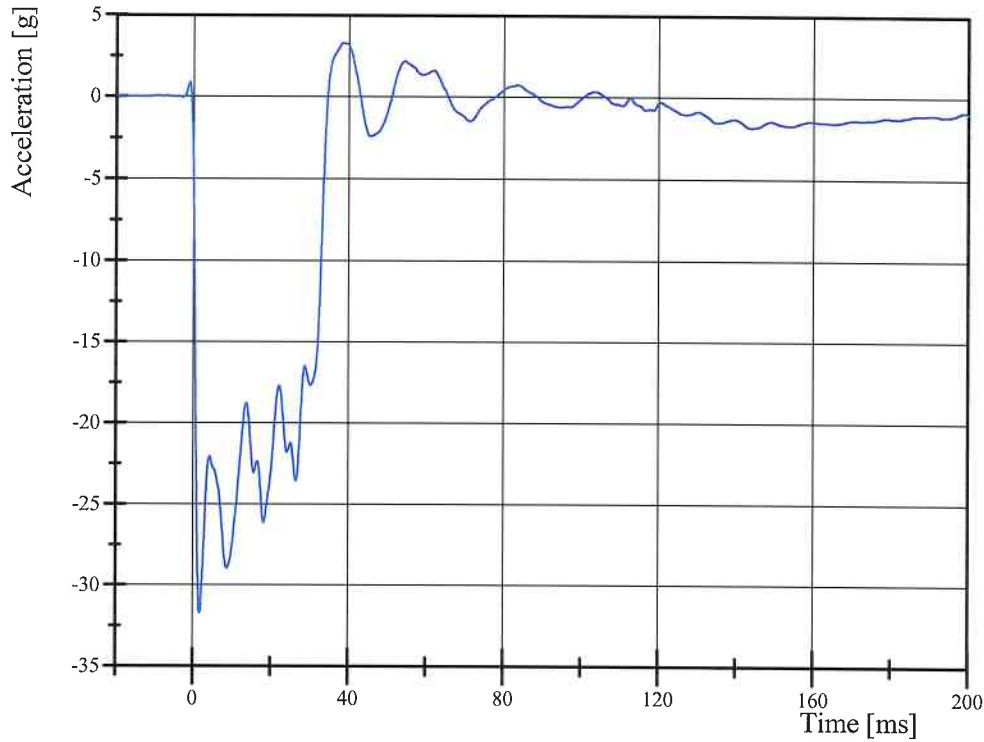
Transportation Research Center Inc.

Neck Flexion

HIII 5th Serial No. 329 Certification No. 19-1

Test Date: 11/12/2013

Pendulum Acceleration

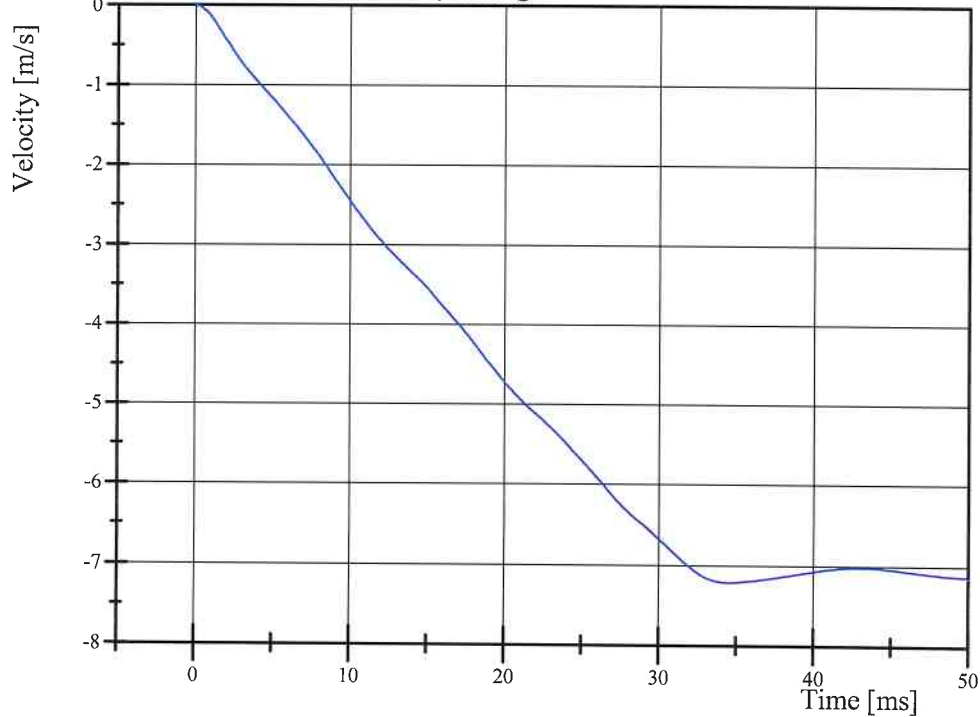


Filter Class: CFC_180

Max: 3.3 g at 38.5 ms

Min: -31.7 g at 1.8 ms

Pendulum Integrated Velocity Change



Filter Class: CFC_180

Max: 0.0 m/s at 0.0 ms

Min: -7.2 m/s at 34.6 ms

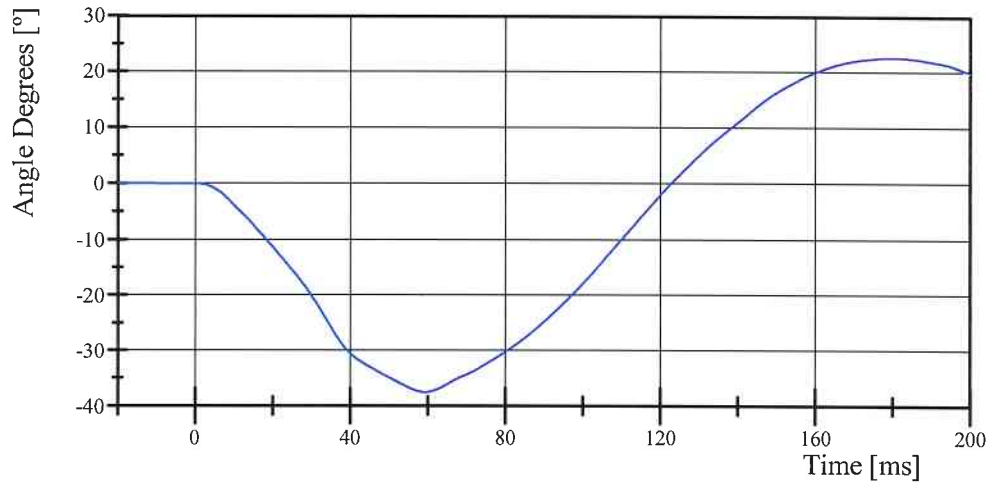
Transportation Research Center Inc.

Neck Flexion

HIII 5th Serial No. 329 Certification No. 19-1

Test Date: 11/12/2013

Pot Rotation at the Base of Neck

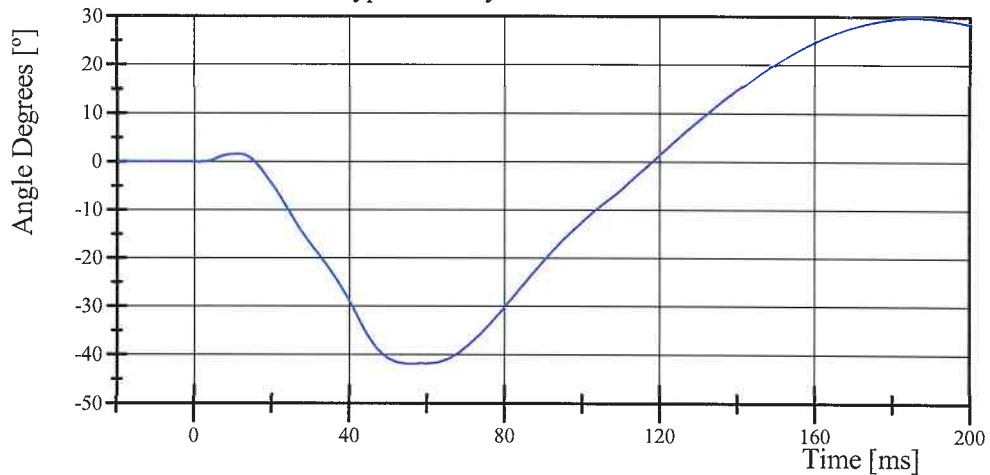


Filter Class: CFC_60

Max: 22.5 ° at 179.6 ms

Min: -37.6 ° at 59.2 ms

Head Rotation at Occypital Condyles

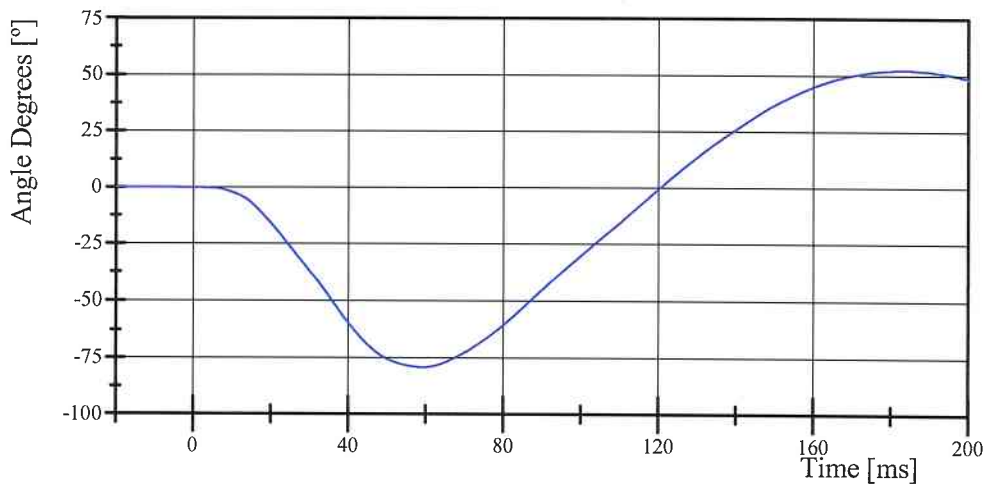


Filter Class: CFC_60

Max: 29.7 ° at 185.7 ms

Min: -41.8 ° at 55.6 ms

Total Head D-Plane Rotation



Filter Class: CFC_60

Max: 52.1 ° at 183.2 ms

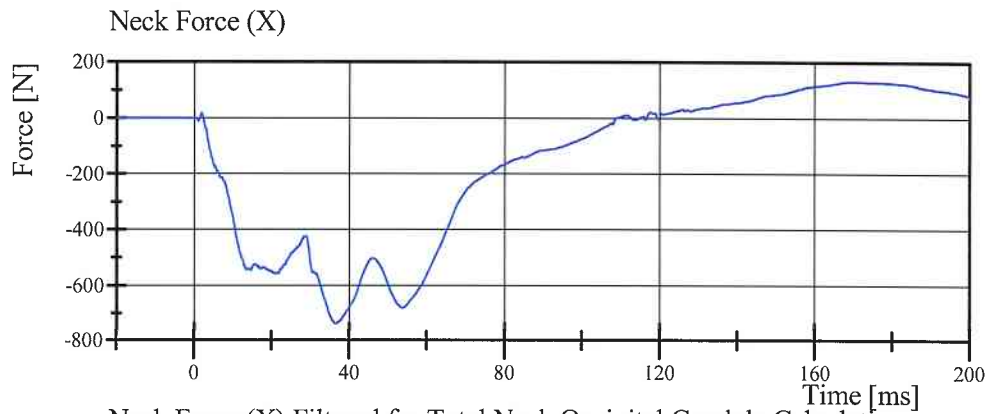
Min: -79.3 ° at 59.3 ms

Transportation Research Center Inc.

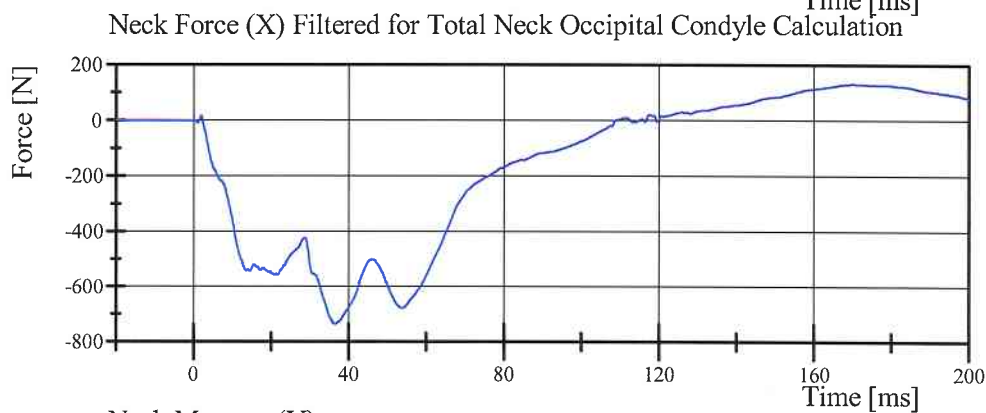
Neck Flexion

HIII 5th Serial No. 329 Certification No. 19-1

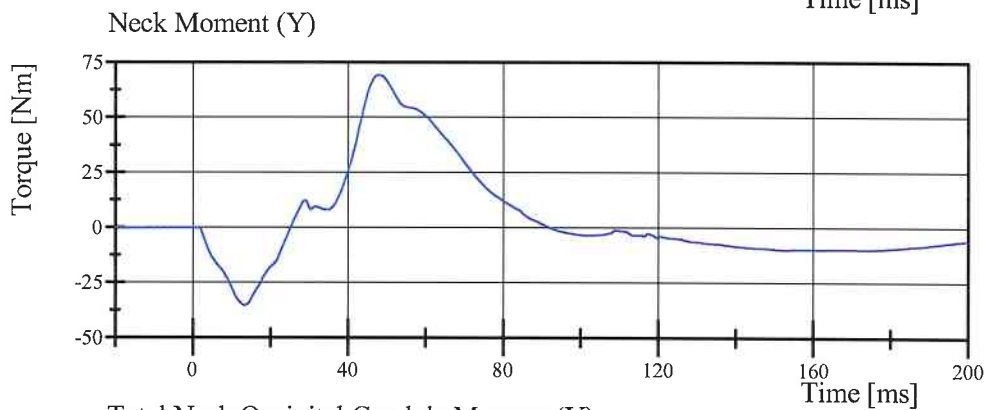
Test Date: 11/12/2013



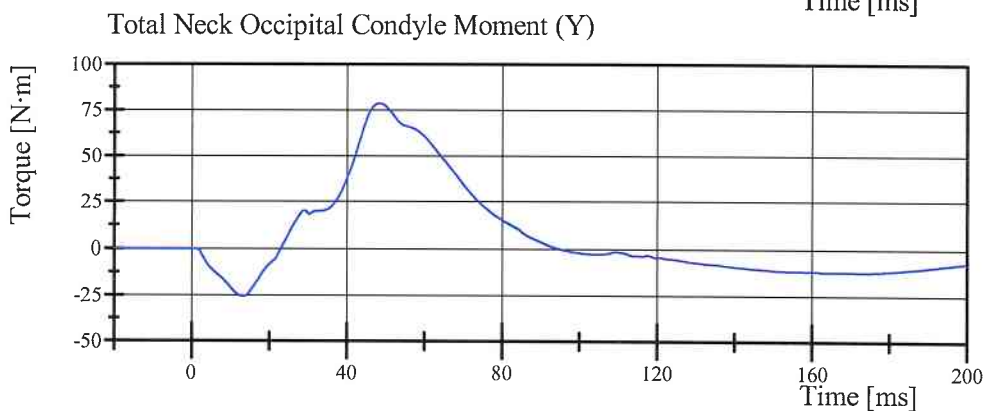
Filter Class: CFC_1000
Max: 130.9 N at 170.1 ms
Min: -737.3 N at 36.5 ms



Filter Class: CFC_600
Max: 130.6 N at 170.2 ms
Min: -737.0 N at 36.5 ms



Filter Class: CFC_600
Max: 69.3 Nm at 48.0 ms
Min: -35.3 Nm at 13.4 ms



Filter Class: Without_(Consta
Max: 78.7 N·m at 48.3 ms
Min: -25.7 N·m at 13.2 ms

Transportation Research Center Inc.

Neck Extension

HIII 5th Serial No. 329 Certification No. 19-2

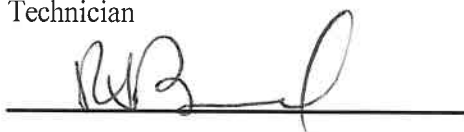
Test Date: 11/12/2013

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	38 %	Yes
Pendulum Velocity	(-5.95) - (-6.19) m/s	-6.088 m/s	Yes
Pendulum Integrated Velocity Change at 10ms	1.5 - 1.9 m/s	1.86 m/s	Yes
Pendulum Integrated Velocity Change at 20ms	3.1 - 3.9 m/s	3.69 m/s	Yes
Pendulum Integrated Velocity Change at 30ms	4.6 - 5.6 m/s	5.29 m/s	Yes
Total Head D-Plane Rotation	99 - 114 °	102.1 °	Yes
Total Neck Occipital Condyles Moment Between 99° and 114° Rotation	(-53) - (-65) N·m	-58.3 N·m	Yes
Total Neck Occipital Condyles Moment Decay to -10 N·m	94 - 114 ms	100.3 ms	Yes

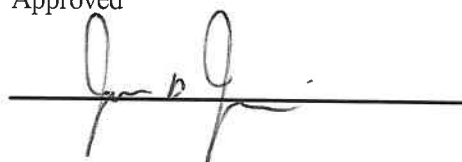
Test meets specifications.

Comments:

Technician



Approved



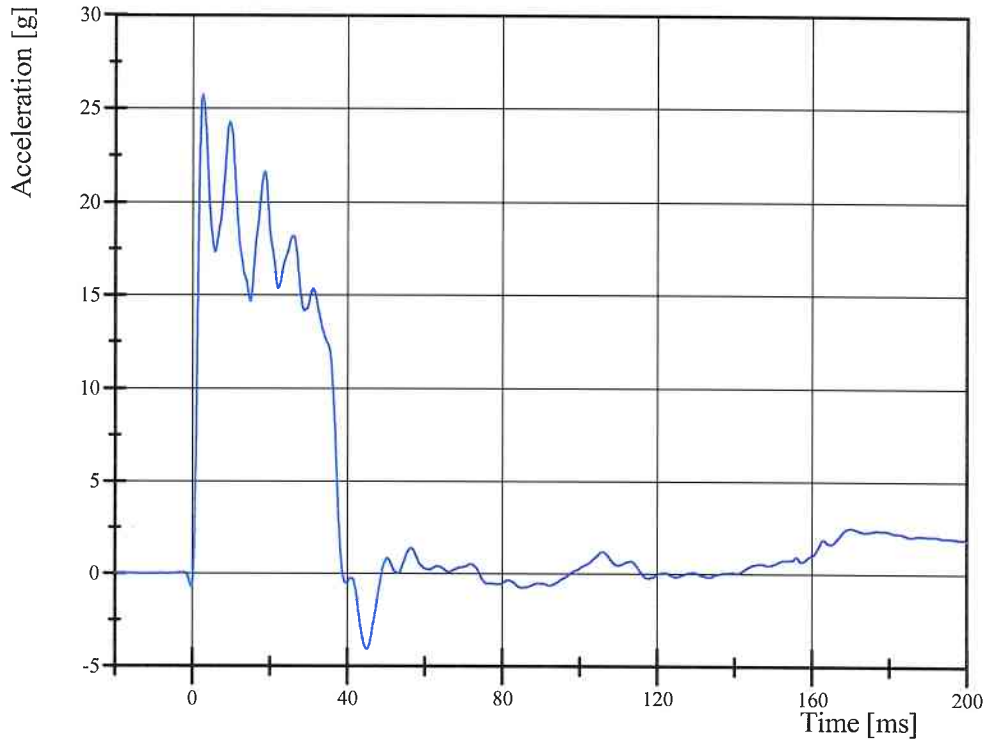
Transportation Research Center Inc.

Neck Extension

HIII 5th Serial No. 329 Certification No. 19-2

Test Date: 11/12/2013

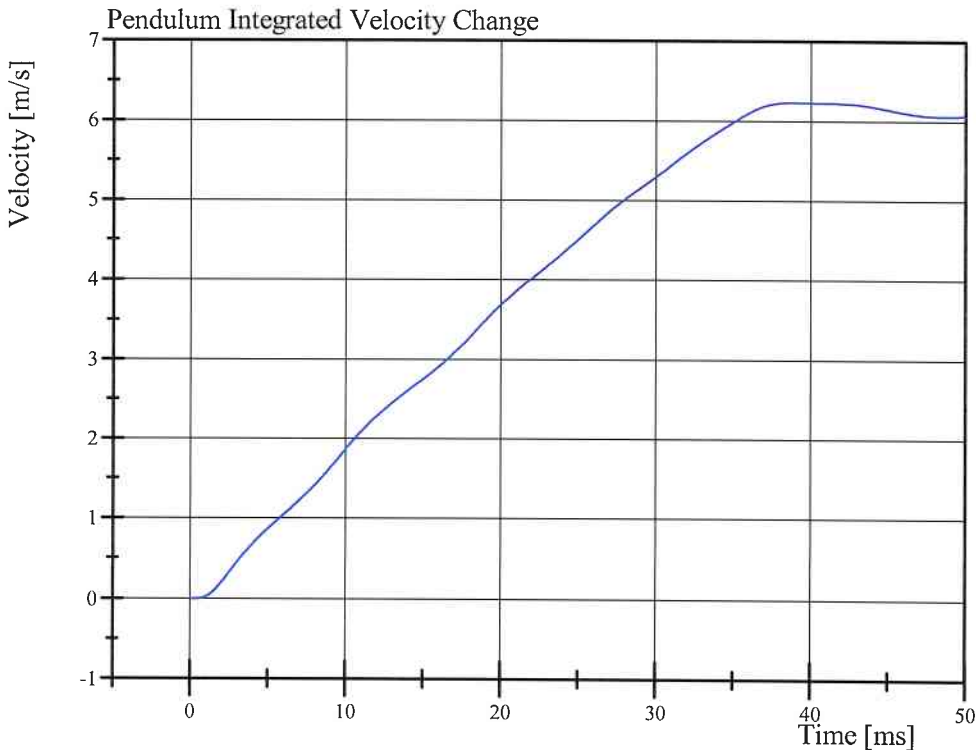
Pendulum Acceleration



Filter Class: CFC_180

Max: 25.7 g at 2.6 ms

Min: -4.1 g at 45.0 ms



Filter Class: CFC_180

Max: 6.2 m/s at 38.8 ms

Min: -0.0 m/s at 0.1 ms

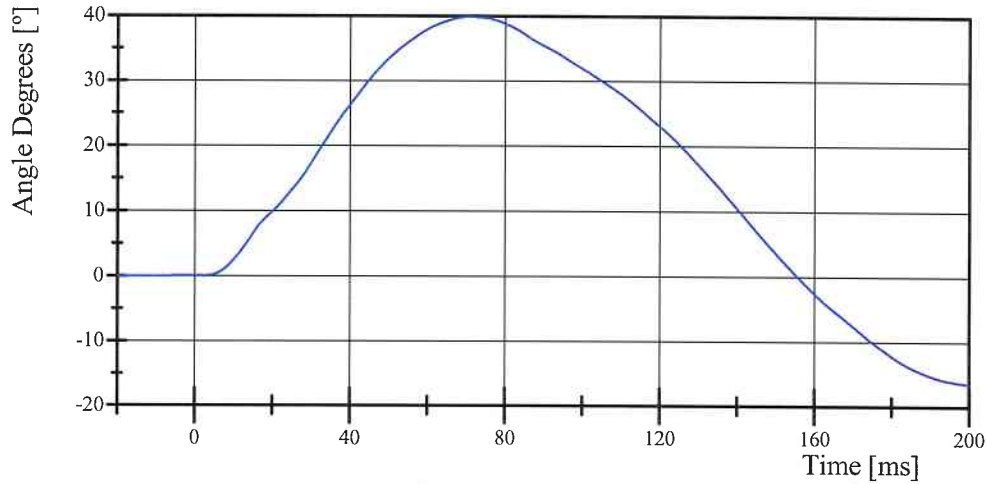
Transportation Research Center Inc.

Neck Extension

HIII 5th Serial No. 329 Certification No. 19-2

Test Date: 11/12/2013

Pot Rotation at the Base of Neck

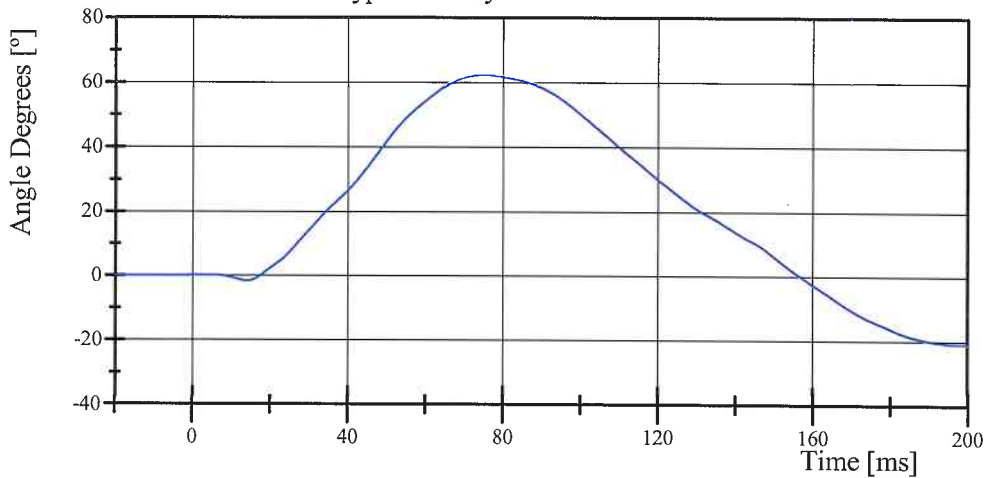


Filter Class: CFC_60

Max: 39.8 ° at 70.7 ms

Min: -16.6 ° at 200.0 ms

Head Rotation at Occypital Condyles

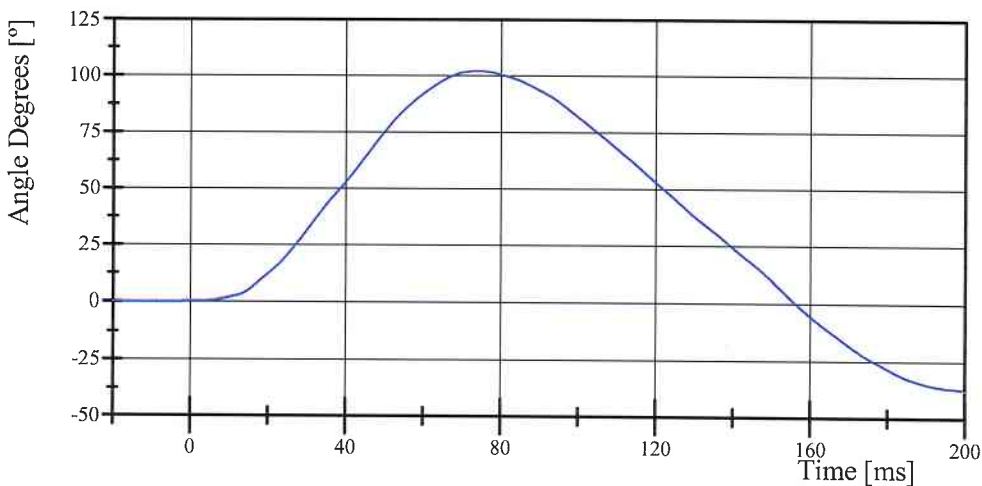


Filter Class: CFC_60

Max: 62.4 ° at 75.0 ms

Min: -21.0 ° at 199.9 ms

Total Head D-Plane Rotation



Filter Class: CFC_60

Max: 102.1 ° at 74.0 ms

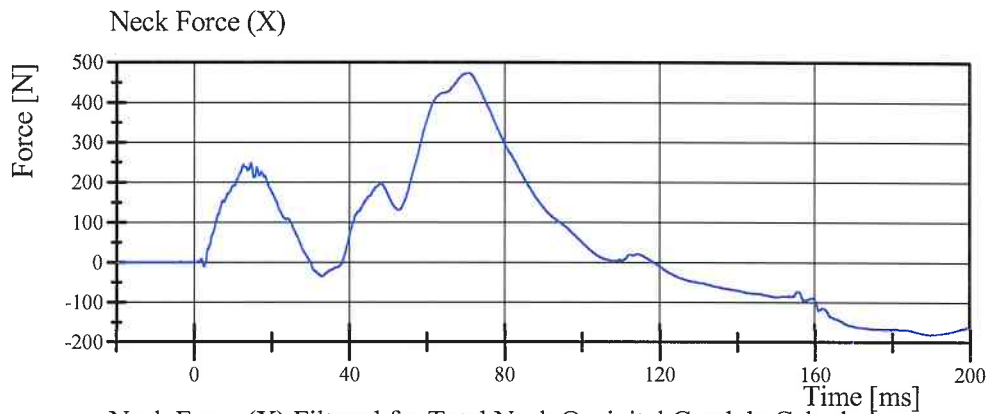
Min: -37.6 ° at 200.0 ms

Transportation Research Center Inc.

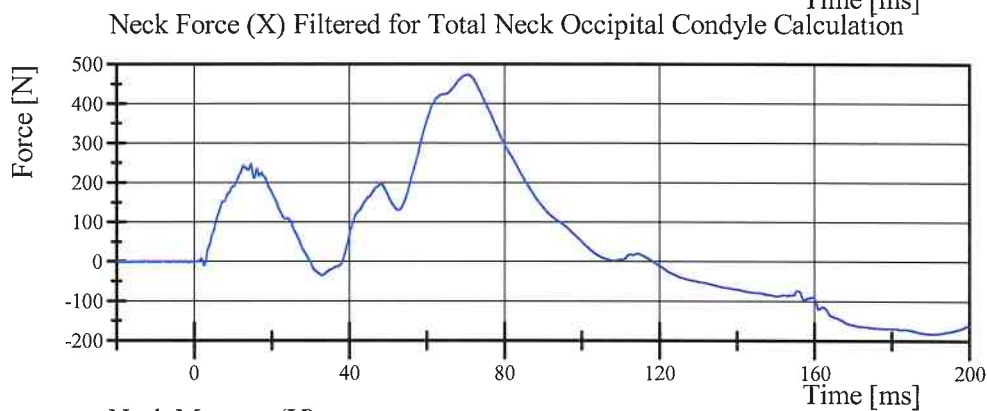
Neck Extension

HIII 5th Serial No. 329 Certification No. 19-2

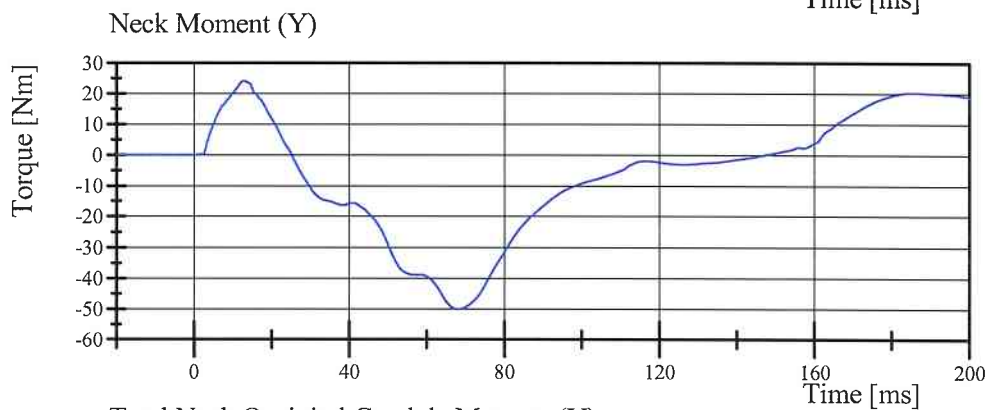
Test Date: 11/12/2013



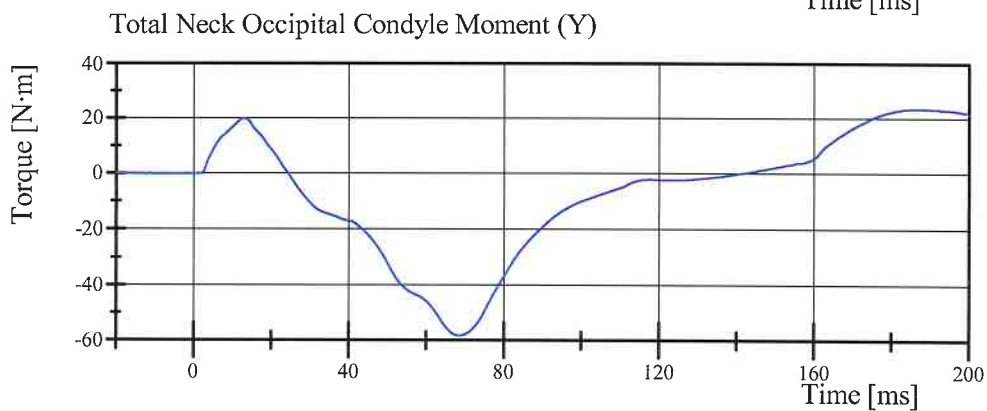
Filter Class: CFC_1000
Max: 473.6 N at 70.5 ms
Min: -184.1 N at 189.8 ms



Filter Class: CFC_600
Max: 473.4 N at 70.7 ms
Min: -183.8 N at 190.0 ms



Filter Class: CFC_600
Max: 24.2 Nm at 12.8 ms
Min: -50.1 Nm at 68.0 ms



Filter Class: Without_(Consta
Max: 23.3 N·m at 187.4 ms
Min: -58.3 N·m at 68.5 ms

Transportation Research Center Inc.

Front Thorax

HIII 5th Serial No. 329 Certification No. 19-1

Test Date: 11/12/2013

Test Parameter	Specification	Test Results	Pass
Temperature	20.6 - 22.2 °C	21.3 °C	Yes
Relative Humidity	10 - 70 %	40 %	Yes
Probe Velocity	6.59 - 6.83 m/s	6.598 m/s	Yes
Probe Force Peak Between 50.0 mm and 58.0 mm Chest Deflection	(-3,900) - (-4,400) N	-4,084.1 N	Yes
Probe Force Peak Between 18.0 mm and 50.0 mm Chest Deflection	$\geq$ (-4,600) N	-3,990.9 N	Yes
Maximum Chest Compression	(-50) - (-58) mm	-56.0 mm	Yes
Internal Hysteresis	69 - 85 %	71.3 %	Yes

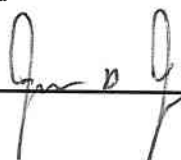
Test meets specifications.

Comments:

Technician



Approved



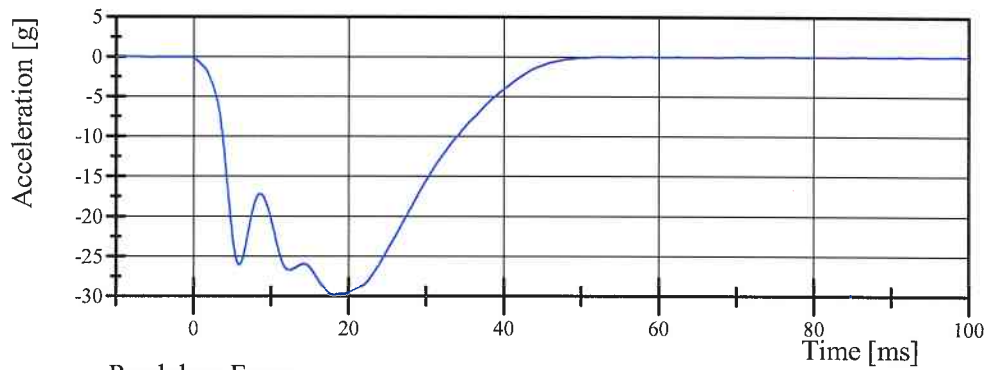
Transportation Research Center Inc.

Front Thorax

HIH 5th Serial No. 329 Certification No. 19-1

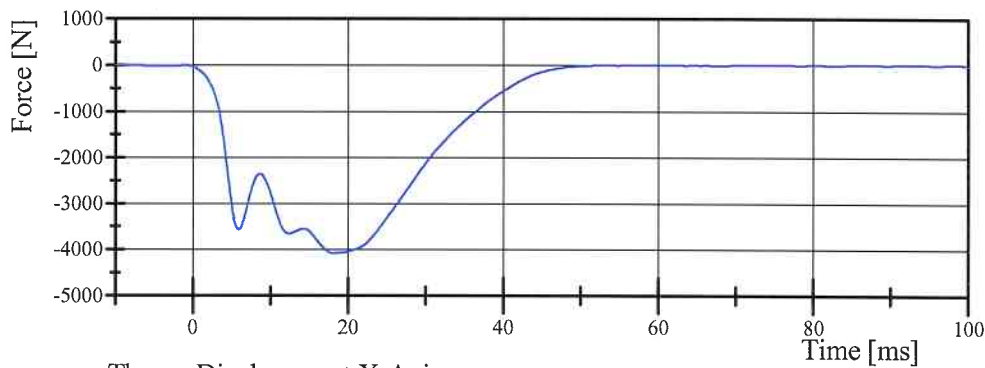
Test Date: 11/12/2013

Pendulum Acceleration



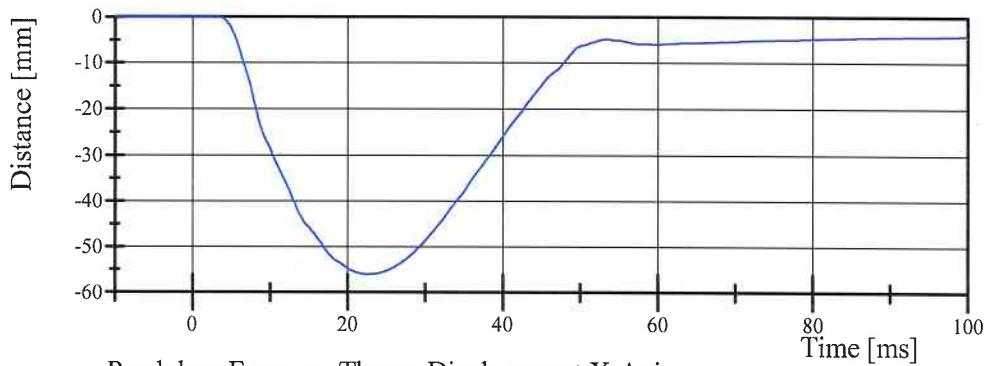
Filter Class: CFC_180
Max: 0.0 g at 58.2 ms
Min: -29.8 g at 18.2 ms

Pendulum Force



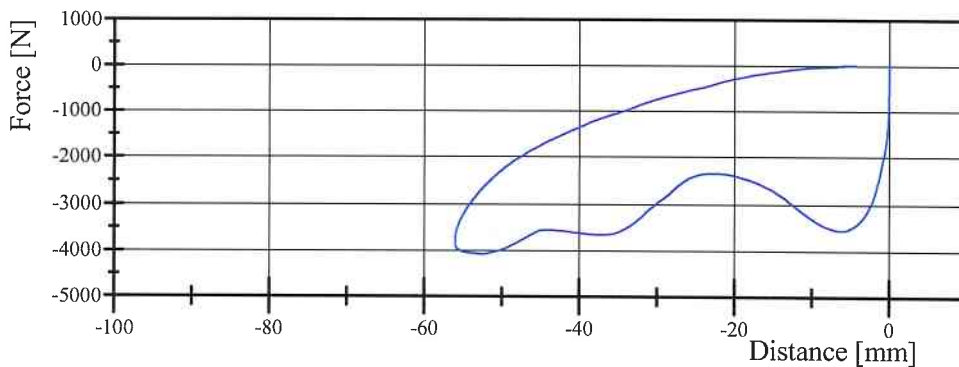
Filter Class: CFC_180
Max: 5.5 N at 58.2 ms
Min: -4,084.1 N at 18.2 ms

Thorax Displacement X-Axis



Filter Class: CFC_600
Max: 0.0 mm at -3.8 ms
Min: -56.0 mm at 22.6 ms

Pendulum Force vs. Thorax Displacement X-Axis



Filter Class: CFC_180
Max: 5.5 N at -5.9 mm
Min: -4,084.1 N at -52.6 mm

Transportation Research Center Inc.

Hybrid III Small Female Torso Flexion



Serial Number: 329

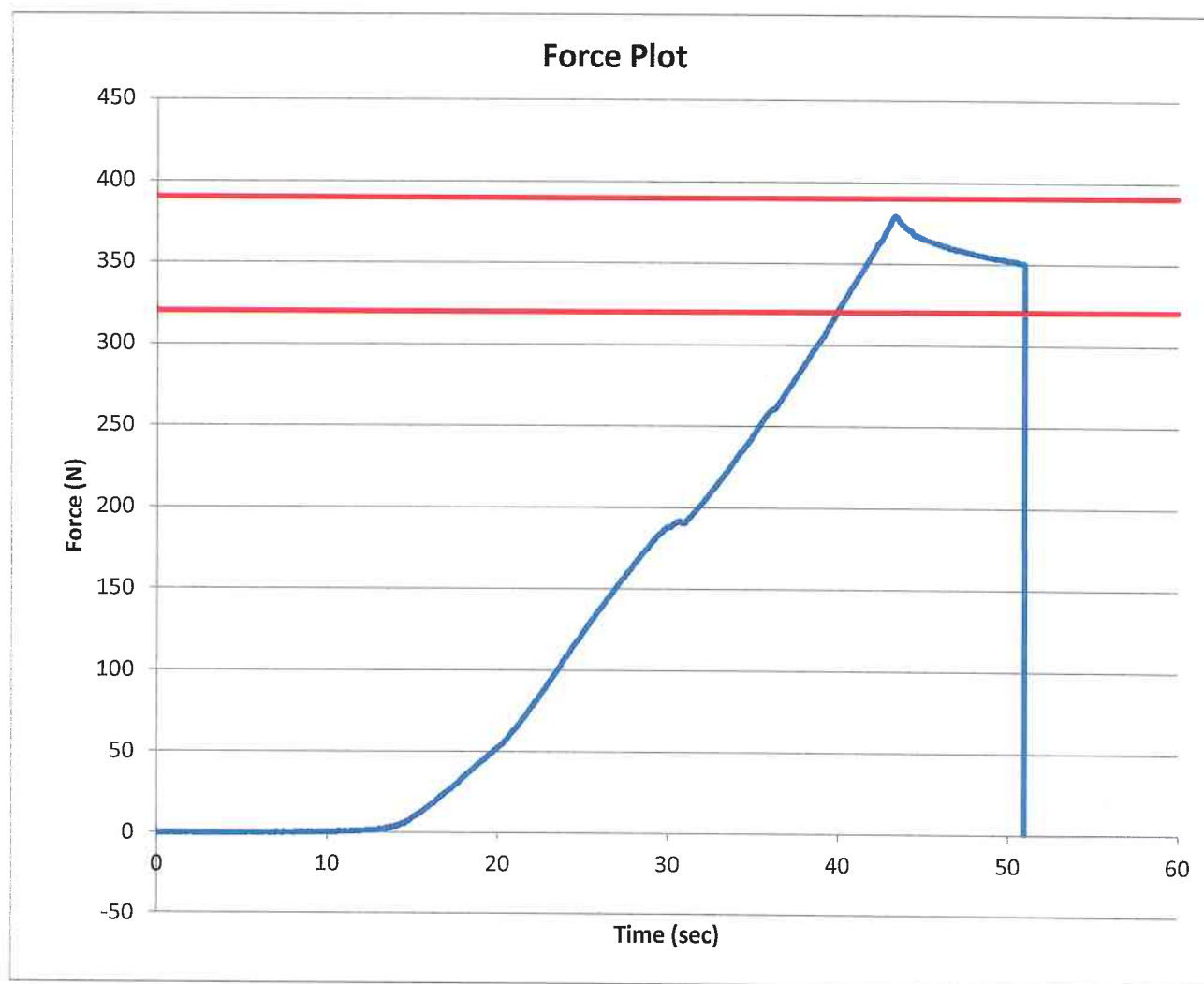
Date: 11/11/2013

Test Number: 1

Time: 11:07

Comments:

TEST PARAMETER	SPECIFICATION		TEST RESULTS		
Temperature	18.9	- 25.6	21.4 °C		Pass
Humidity	10	- 70	35 %		Pass
Average Angular Velocity	0.5	- 1.5	0.9 deg/sec		Pass
Initial Angle	0	- 20	18.79 deg		Pass
Peak Force at 45.26°	320	- 390	379.08 N		Pass
Final Angle	-8	- 8	3.71 deg		Pass



Technician

A handwritten signature in black ink, appearing to be "P. R.", is written over a horizontal line.

Approved

A handwritten signature in black ink, appearing to be "J. B. J.", is written over a horizontal line.

Transportation Research Center Inc.

Left Knee Femur Response Test

HIII 5th Serial No. 329 Certification No. 19-1

Test Date: 11/12/2013

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	21.1 °C	Yes
Relative Humidity	10 - 70 %	33 %	Yes
Probe Velocity	2.08 - 2.13 m/s	2.084 m/s	Yes
Peak Femur Force	(-3,450) - (-4,060) N	-3,535.0 N	Yes

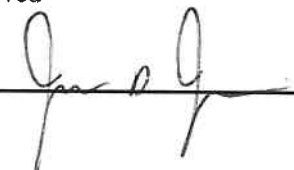
Test meets specifications.

Comments:

Technician

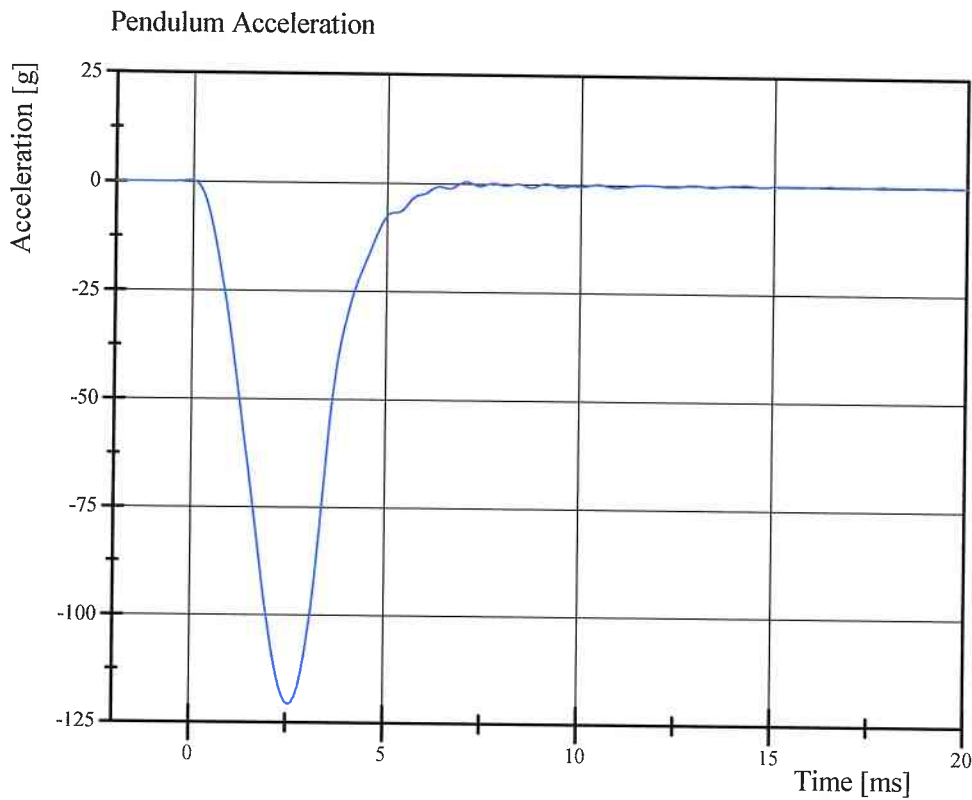


Approved

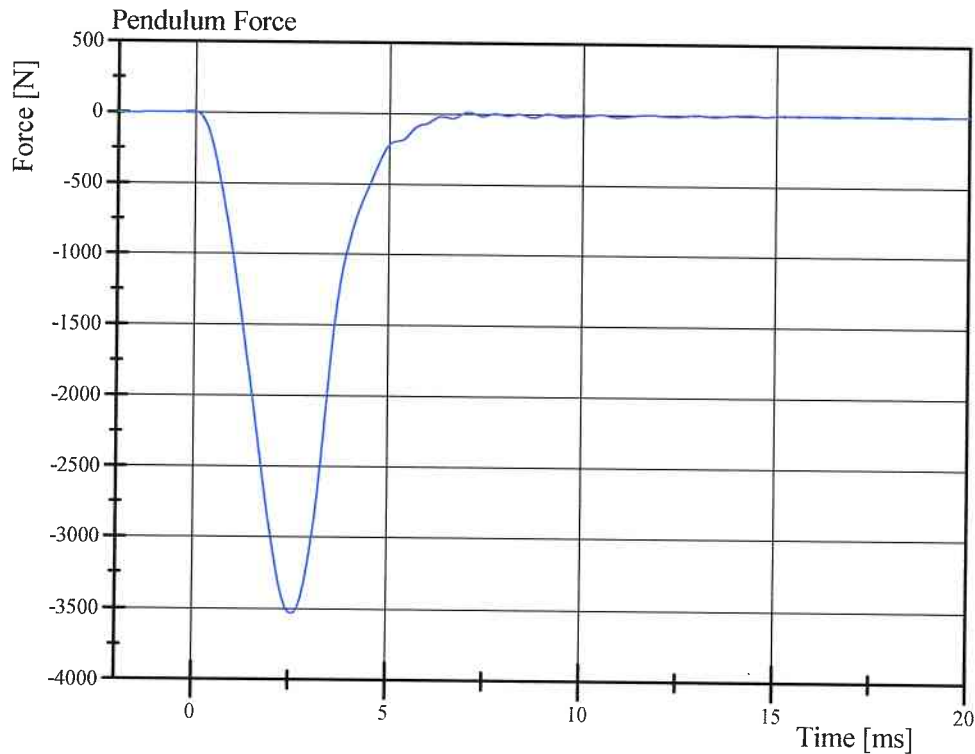


Transportation Research Center Inc.

Left Knee Femur Response Test
HIII 5th Serial No. 329 Certification No. 19-1
Test Date: 11/12/2013



Filter Class: CFC_600
Max: 0.5 g at 7.0 ms
Min: -120.6 g at 2.6 ms



Filter Class: CFC_600
Max: 14.9 N at 7.0 ms
Min: -3,535.0 N at 2.6 ms

Transportation Research Center Inc.

Right Knee Femur Response Test
HIII 5th Serial No. 329 Certification No. 19-1
Test Date: 11/12/2013

Test Parameter	Specification	Test Results	Pass
Temperature	18.9 - 25.6 °C	21.2 °C	Yes
Relative Humidity	10 - 70 %	33 %	Yes
Probe Velocity	2.08 - 2.13 m/s	2.094 m/s	Yes
Peak Femur Force	(-3,450) - (-4,060) N	-3,534.8 N	Yes

Test meets specifications.

Comments:

Technician

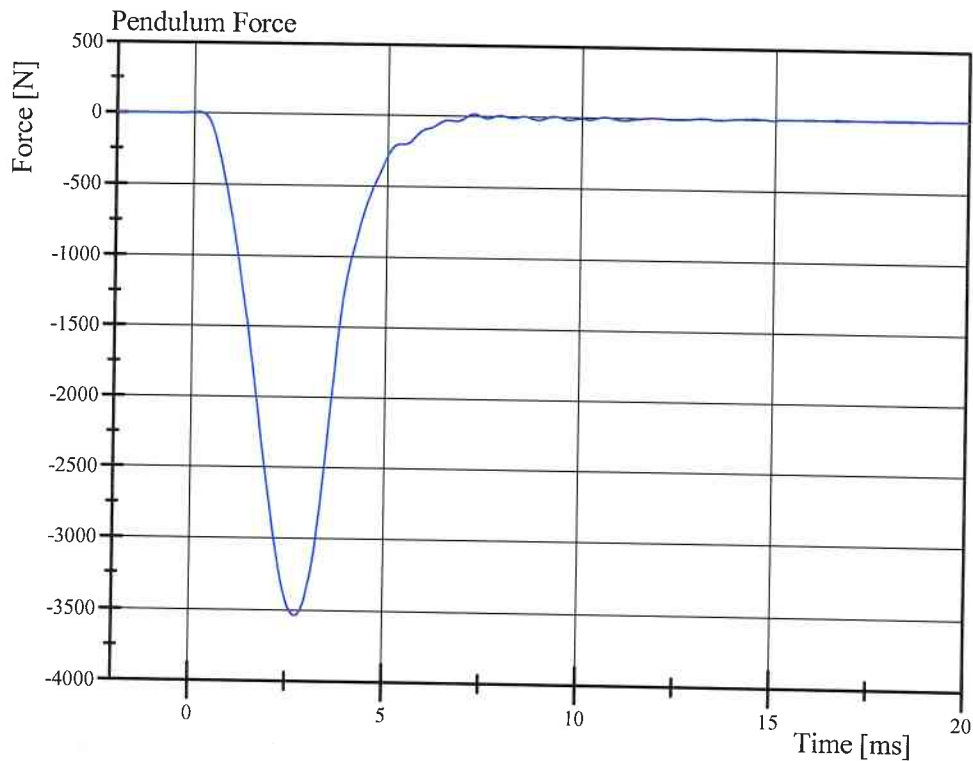
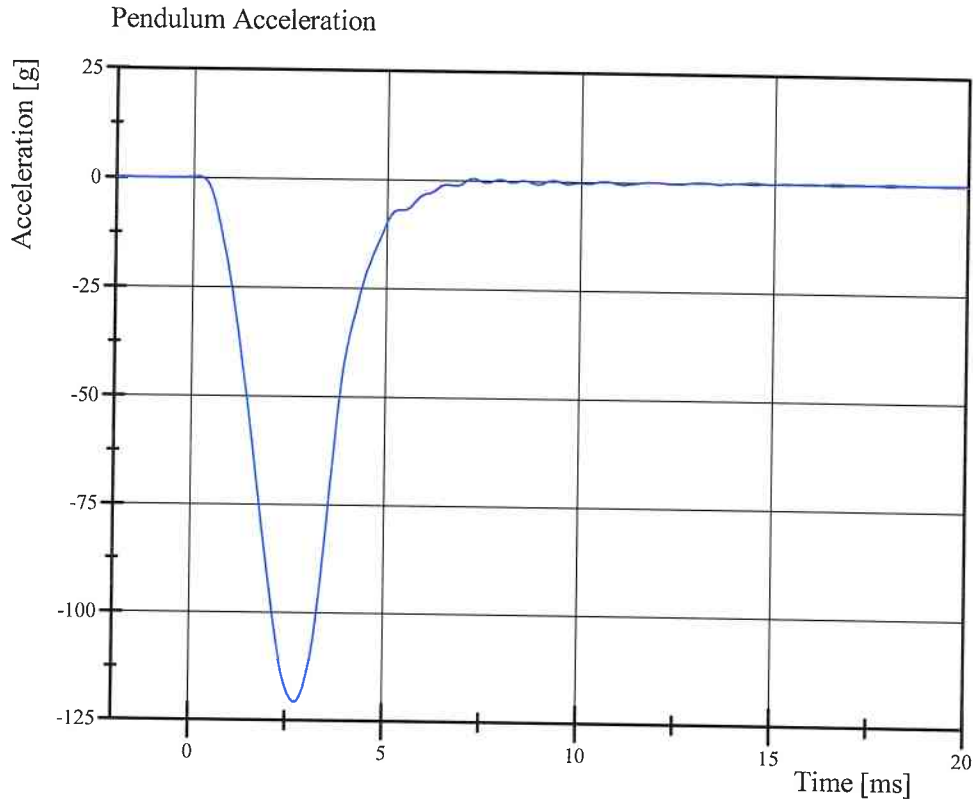


Approved



Transportation Research Center Inc.

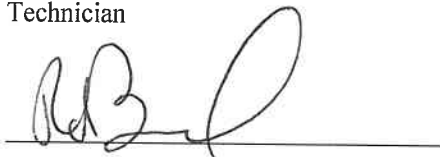
Right Knee Femur Response Test
HIII 5th Serial No. 329 Certification No. 19-1
Test Date: 11/12/2013



Transportation Research Center Inc.
5720 HHH 5th Female Dummy
External Dimensions
Serial No. 329 Calibration No. 19

Symbol	Description	Specification	Results	Pass
		mm	mm	
A	Total Sitting Height	774.7 - 800.1	776	Yes
B	Shoulder Pivot Height	431.8 - 457.2	445	Yes
C	Hip Pivot Height	81.3 - 86.3	85	Yes
D	Hip Pivot from Backline	144.8 - 149.8	147	Yes
E	Shoulder Pivot from Backline	68.6 - 83.8	80	Yes
F	Thigh Clearance	119.4 - 134.6	130	Yes
G	Back of Elbow to Wrist Pivot	243.9 - 259.1	249	Yes
H	Head Back to Backline	43.2 - 48.2	45	Yes
I	Shoulder to Elbow Length	276.8 - 297.2	283	Yes
J	Elbow Rest Height	182.8 - 203.2	190	Yes
K	Buttock Knee Length	520.7 - 546.1	539	Yes
L	Popliteal Height	355.6 - 376.0	360	Yes
M	Knee Pivot Height	393.7 - 419.1	397	Yes
N	Buttock Popliteal Length	414.0 - 439.4	430	Yes
O	Chest Depth without Jacket	175.3 - 190.5	182	Yes
P	Foot Length	218.5 - 233.7	220	Yes
R	Buttock to Knee Pivot Length	457.2 - 482.6	470	Yes
S	Head Breadth	137.1 - 147.3	142	Yes
T	Head Depth	177.8 - 188.0	180	Yes
U	Hip Breadth	299.7 - 314.9	308	Yes
V	Shoulder Breadth	350.5 - 365.7	361	Yes
W	Foot Breadth	78.8 - 94.0	85	Yes
X	Head Circumference	528.3 - 548.7	536	Yes
Y	Chest Circumference with Jacket	850.9 - 881.3	863	Yes
Z	Waist Circumference	759.5 - 789.9	778	Yes
AA	Reference Location for Chest Circumference	332.7 - 358.1	350	Yes
BB	Reference Location for Waist Circumference	160.0 - 170.2	165	Yes

Technician



Approved

