

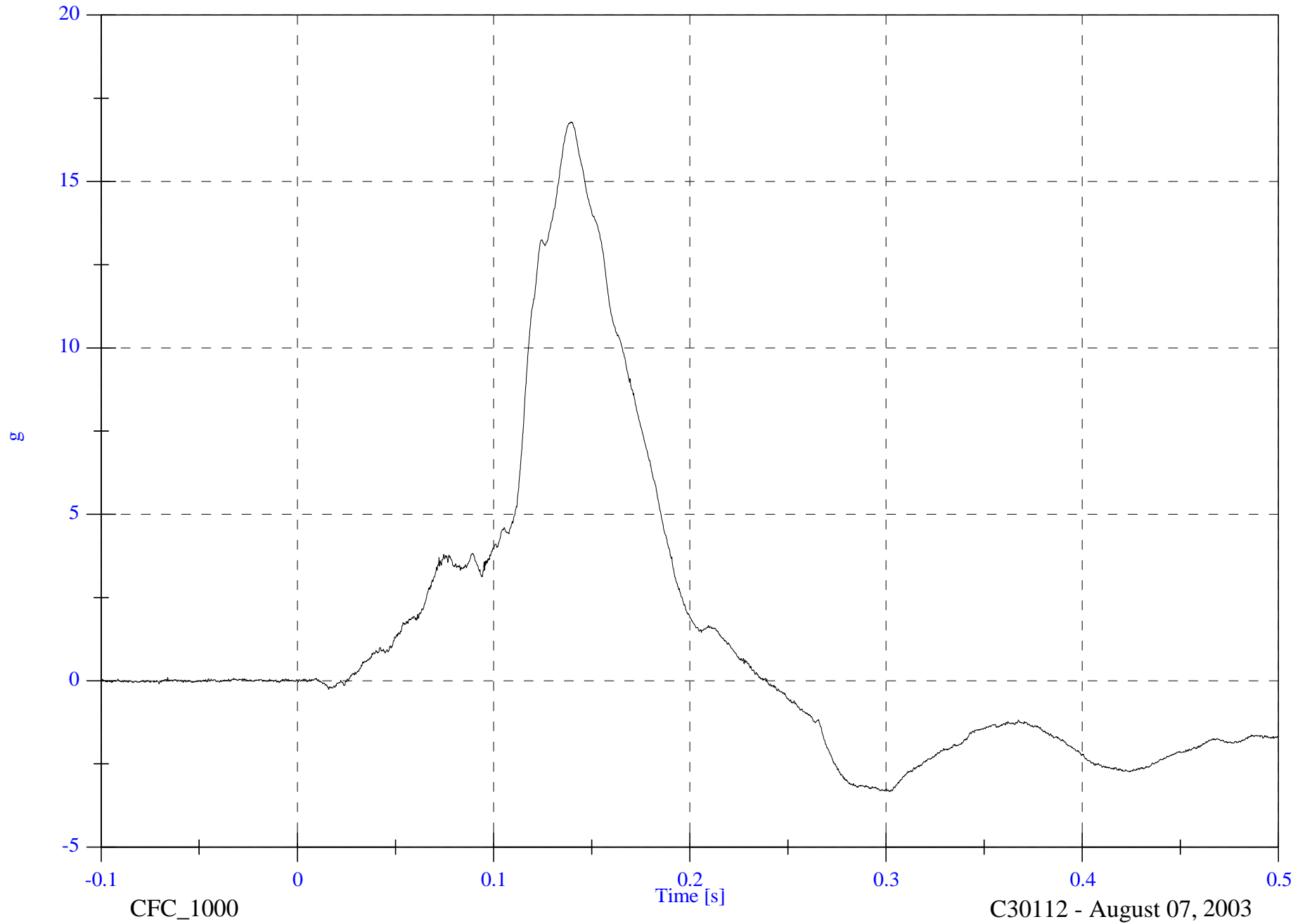
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Head Ax

Max: 16.8 [g] at 0.140 [s]
Min: -3.3 [g] at 0.302 [s]

B-11

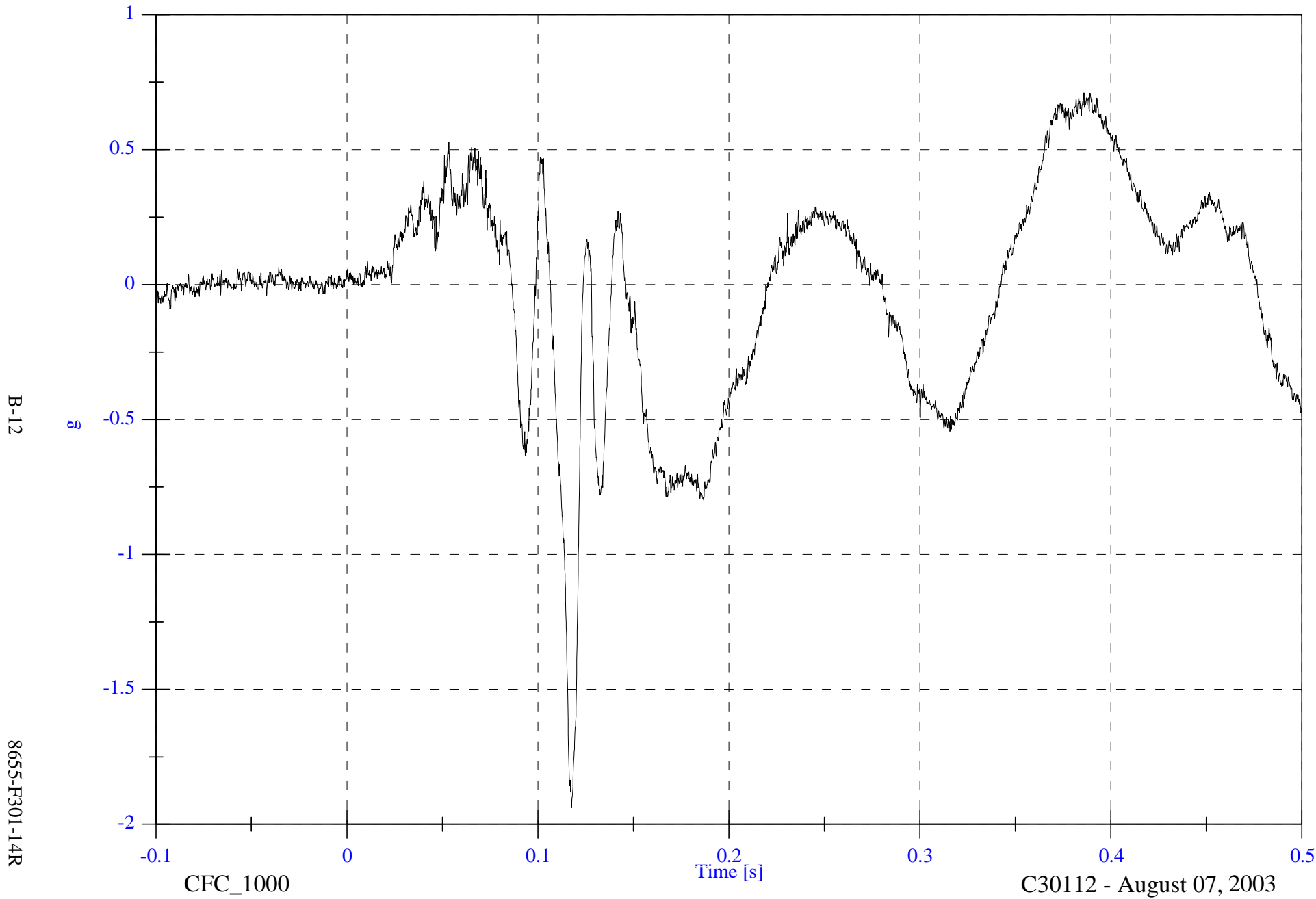
8655-F301-14R



FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Head Ay

Max: 0.7 [g] at 0.386 [s]
Min: -1.9 [g] at 0.118 [s]



B-12

8655-F301-14R

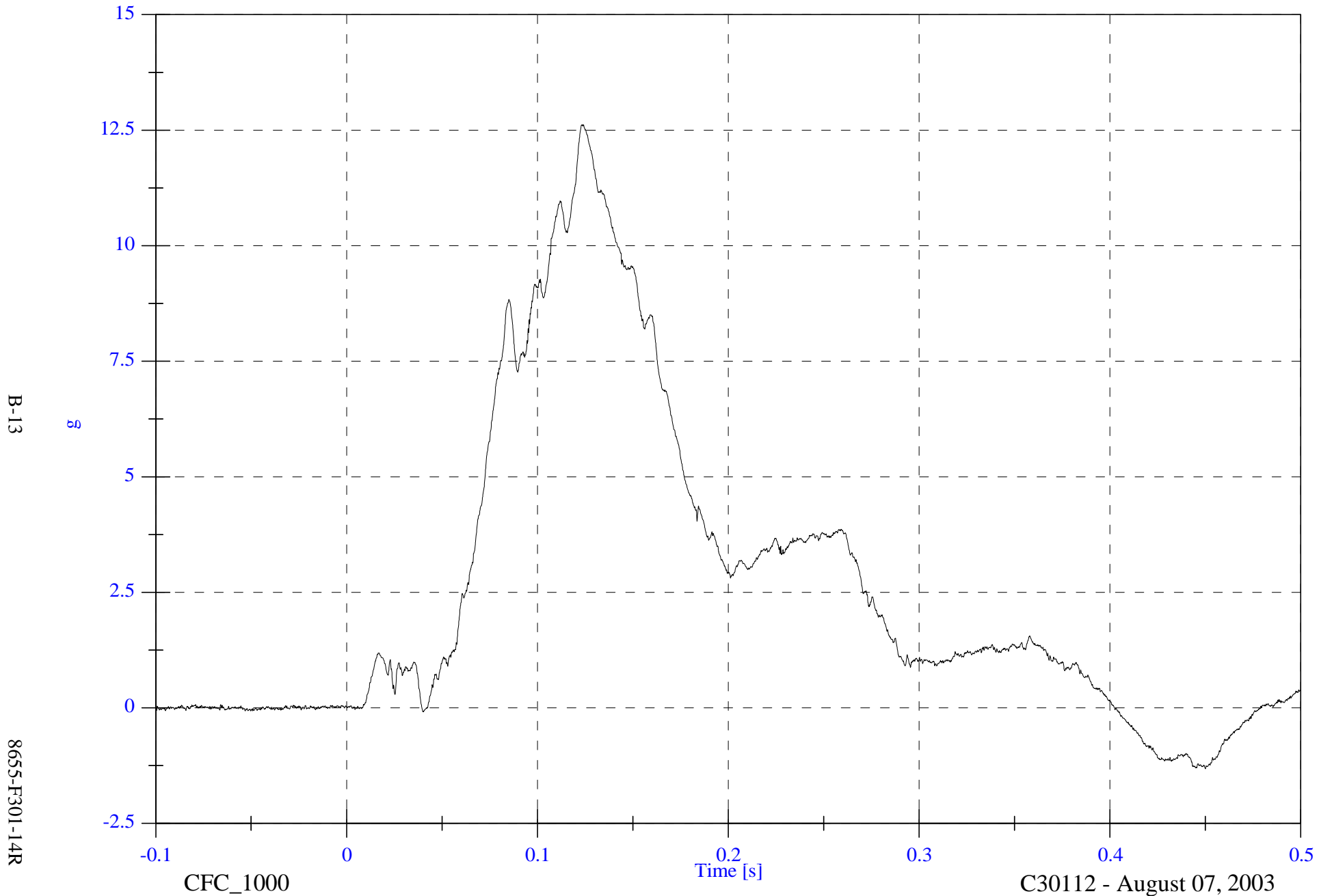
CFC_1000

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Head Az

Max: 12.6 [g] at 0.124 [s]
Min: -1.3 [g] at 0.450 [s]



B-13

8655-F301-14R

CFC_1000

C30112 - August 07, 2003

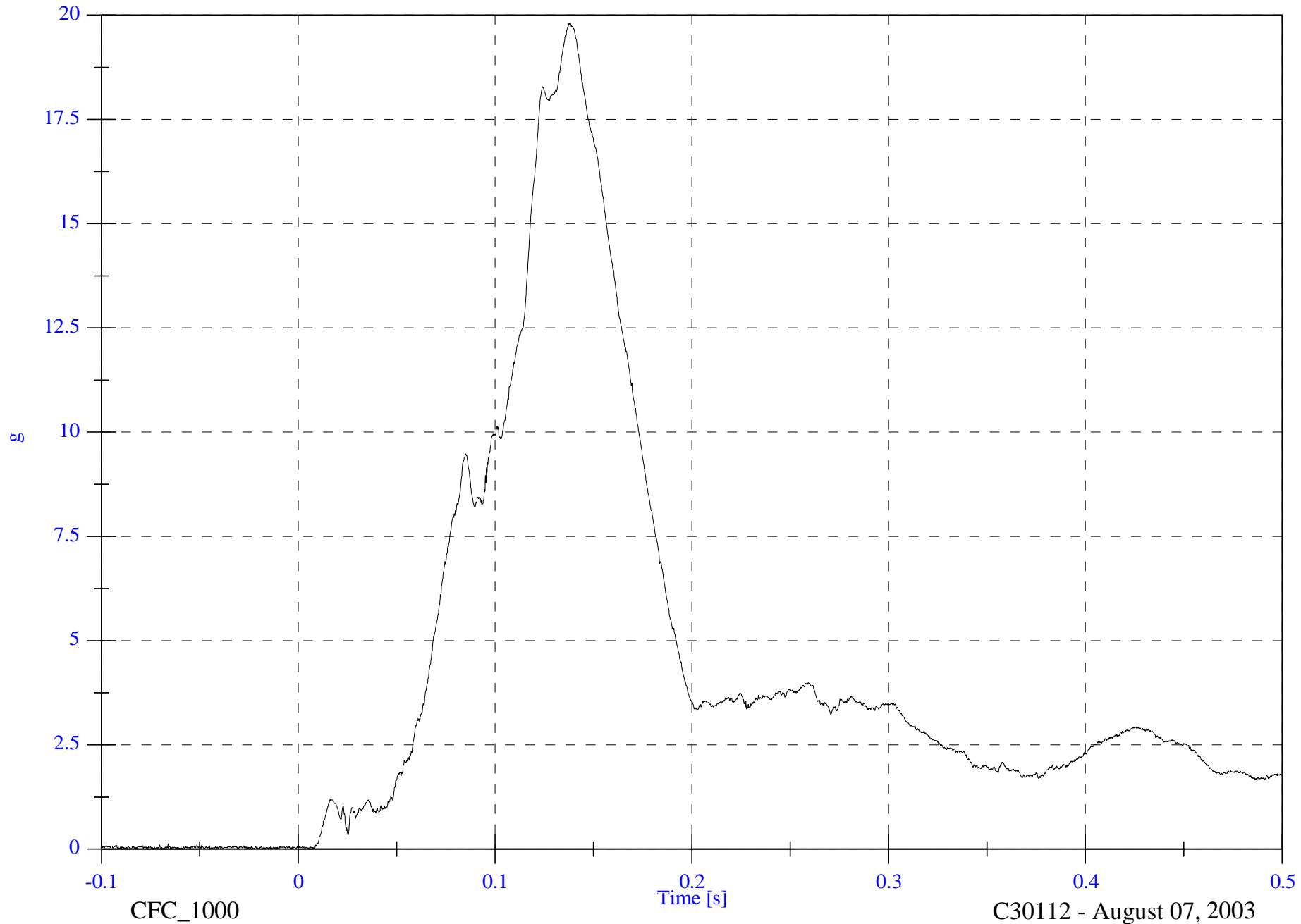
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Head A Resultant

Max: 19.8 [g] at 0.138 [s]
Min: 0.0 [g] at -0.045 [s]

B-14

8655-F301-14R



CFC_1000

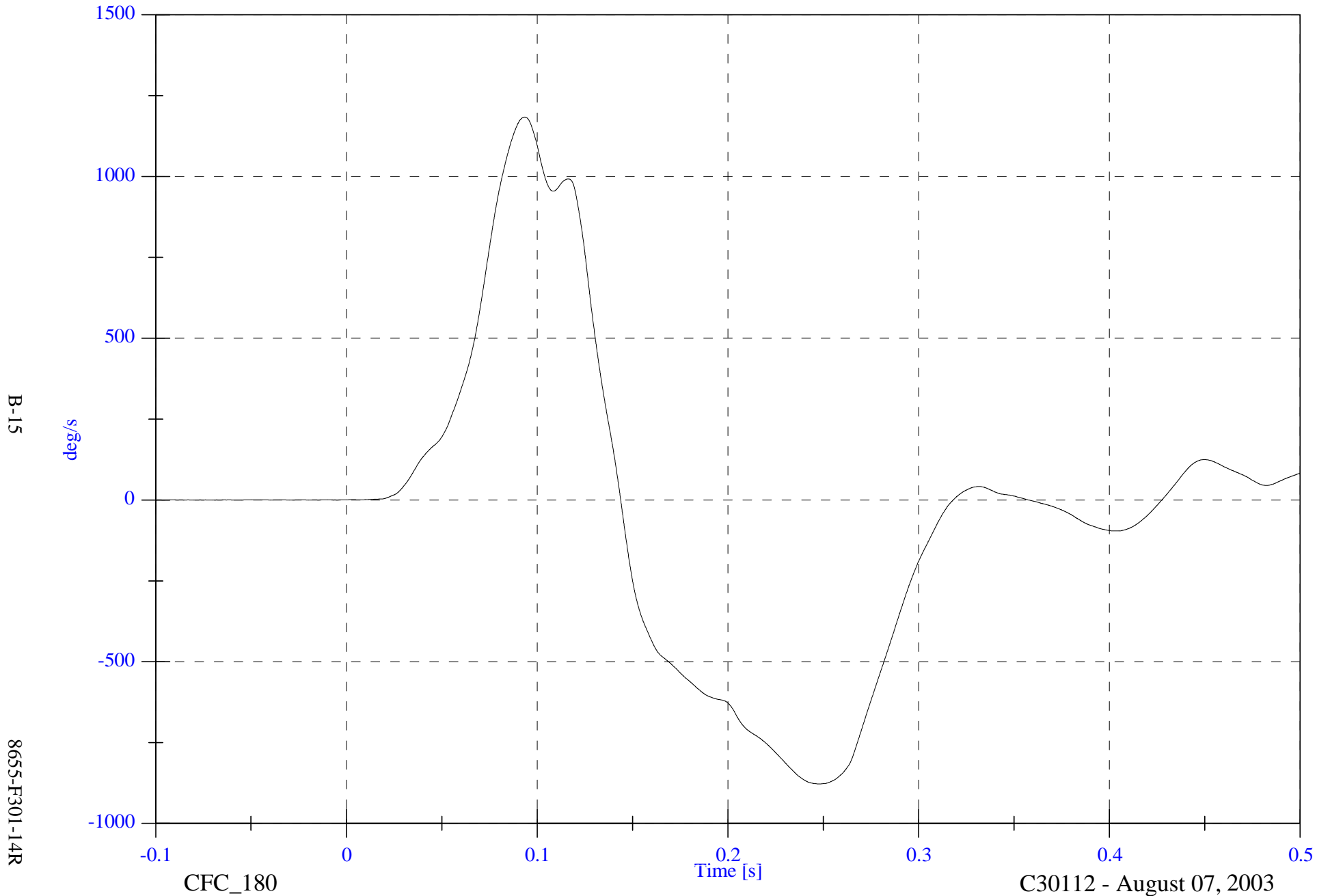
Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Head AVy

Max: 1183.6 [deg/s] at 0.093 [s]
Min: -878.1 [deg/s] at 0.248 [s]



B-15

8655-F301-14R

CFC_180

C30112 - August 07, 2003

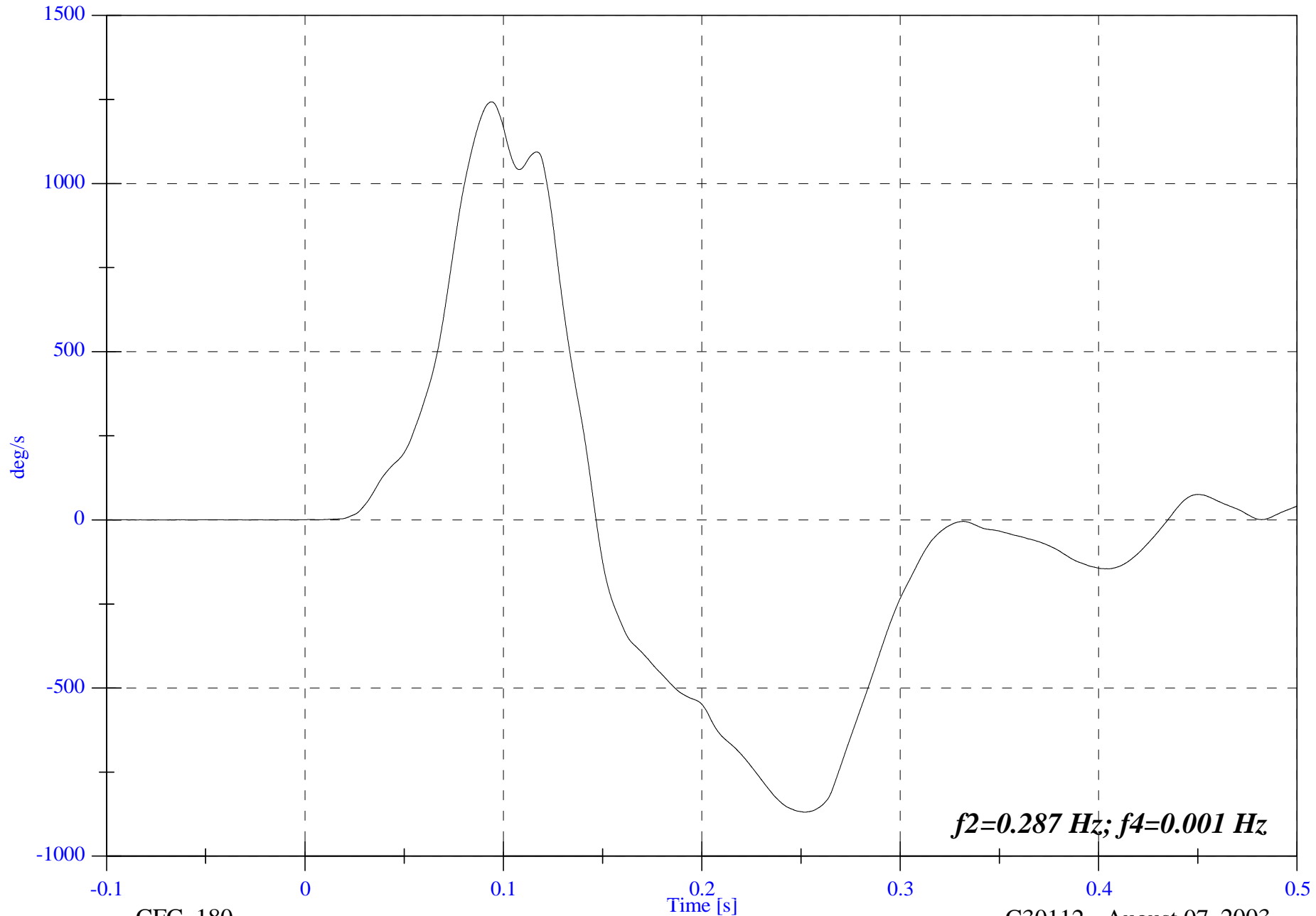
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Head Comp AVy

Max: 1242.5 [deg/s] at 0.094 [s]
Min: -869.1 [deg/s] at 0.252 [s]

B-16

8655-F301-14R



CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

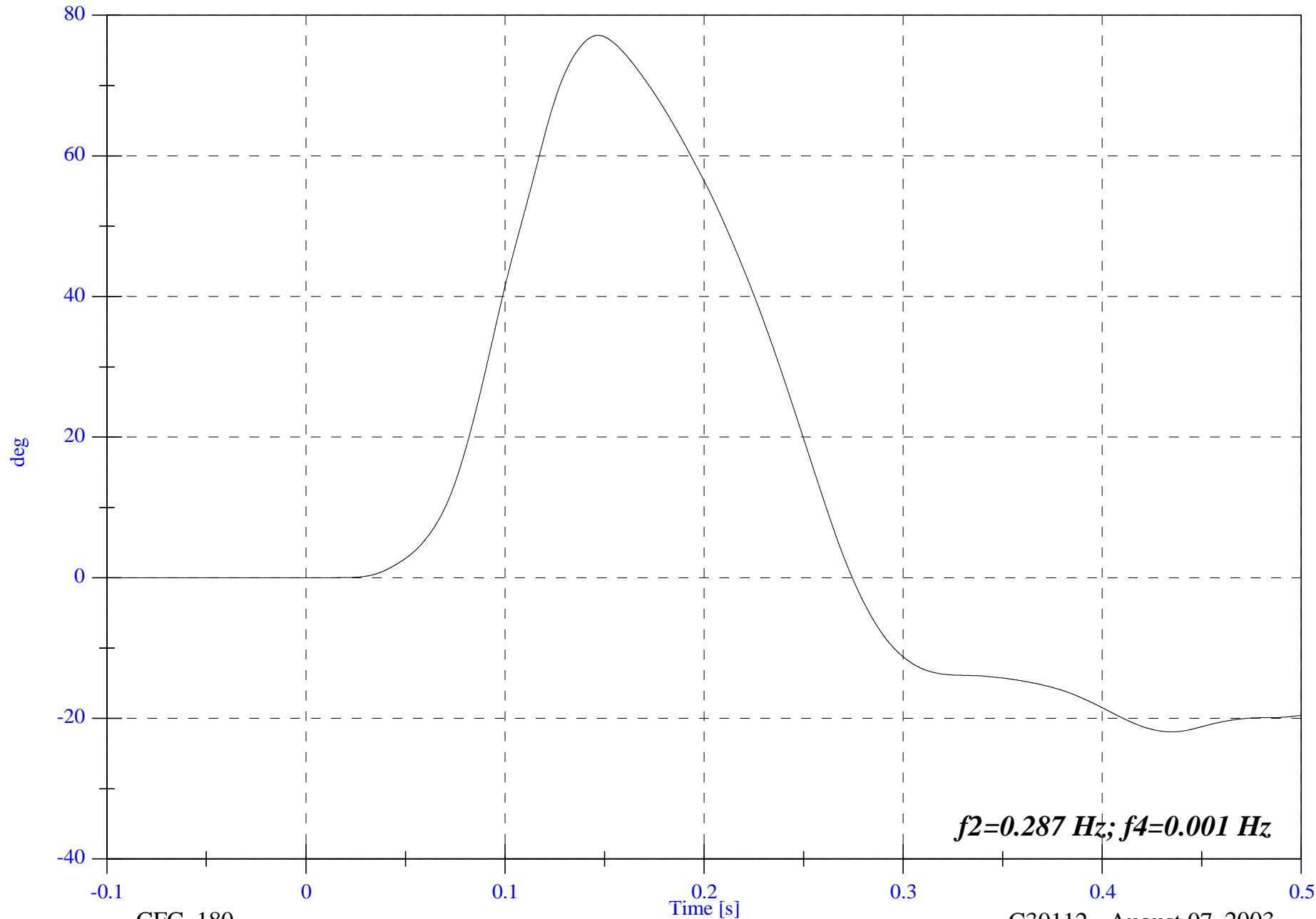
V2P1 Head Comp ADy

Max: 77.2 [deg] at 0.147 [s]

Min: -21.9 [deg] at 0.435 [s]

B-17

8655-F301-14R



CFC_180

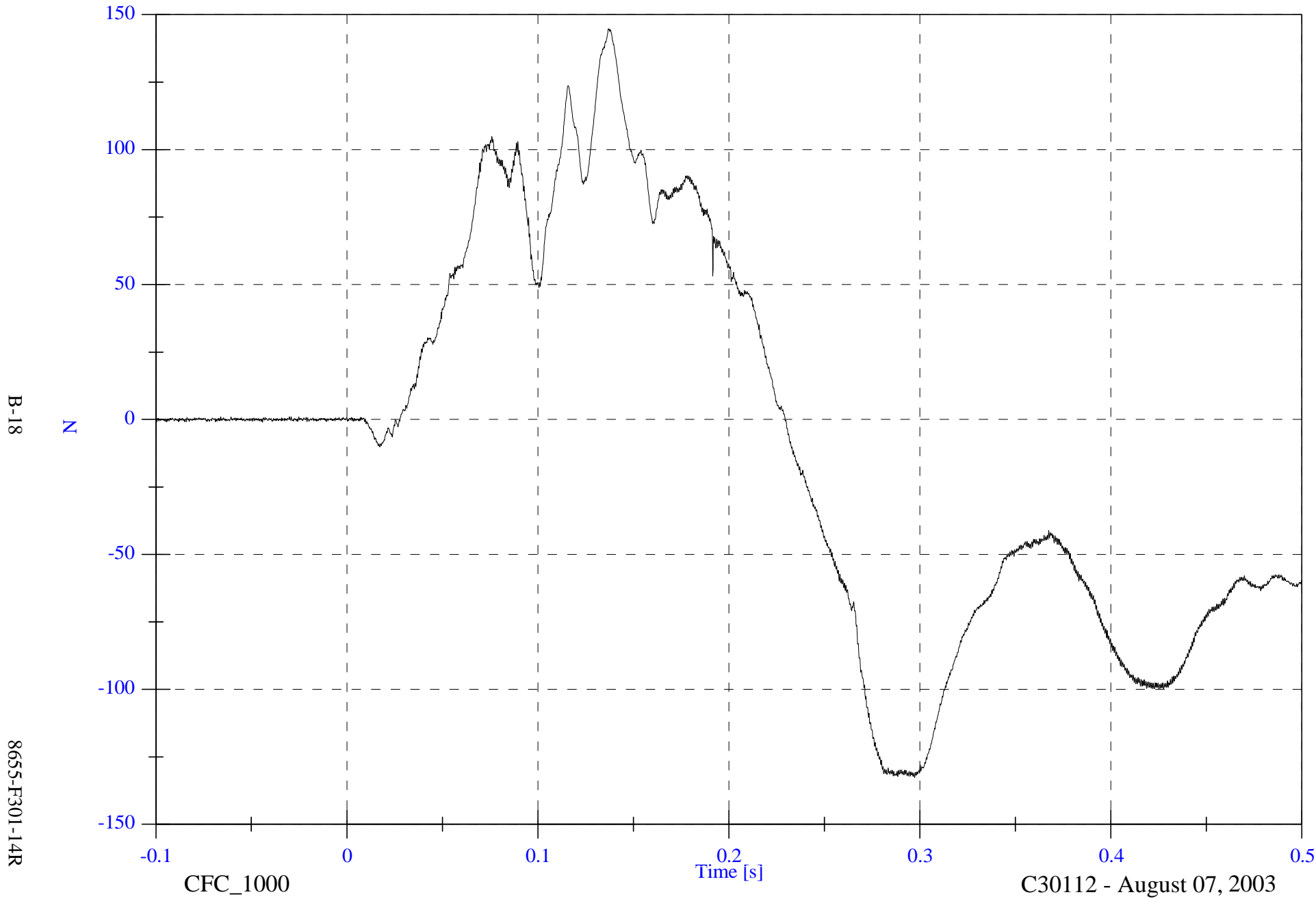
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Upper Neck Fx

Max: 144.8 [N] at 0.137 [s]

Min: -132.7 [N] at 0.297 [s]



B-18

N

8655-F301-14R

CFC_1000

Time [s]

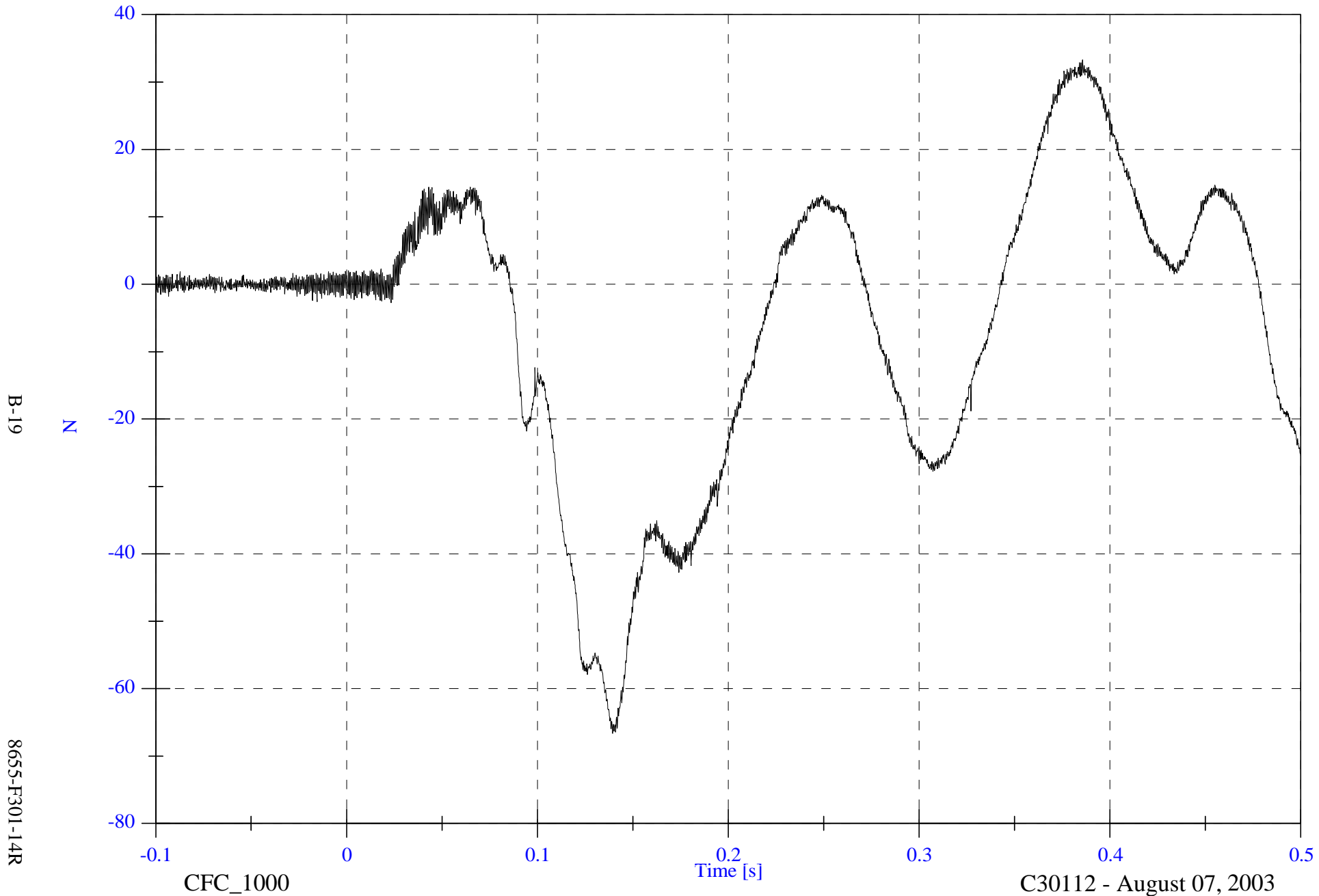
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Upper Neck Fy

Max: 33.3 [N] at 0.386 [s]

Min: -66.6 [N] at 0.139 [s]



B-19

N

8655-F301-14R

CFC_1000

Time [s]

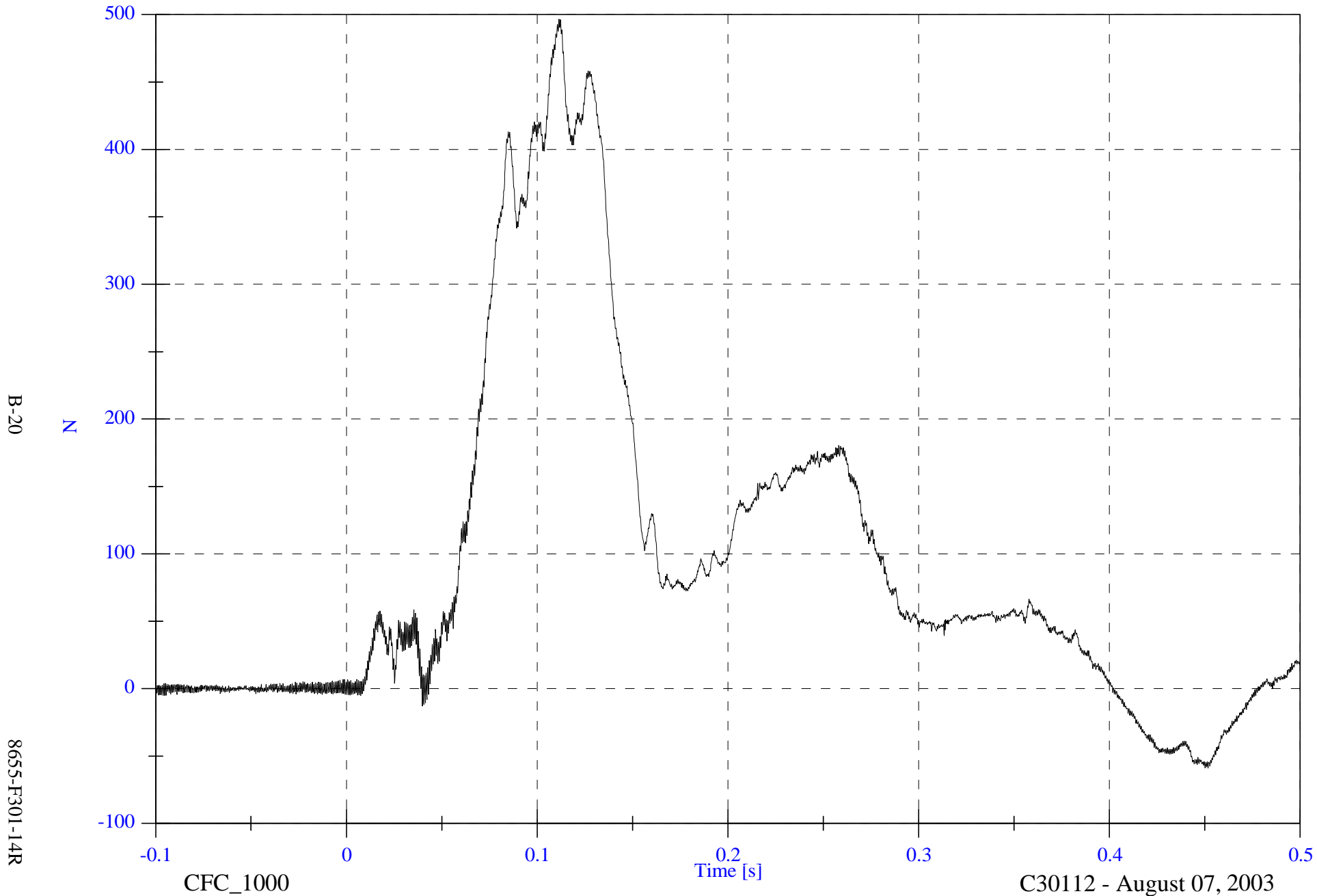
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Upper Neck Fz

Max: 496.7 [N] at 0.111 [s]

Min: -59.0 [N] at 0.452 [s]



B-20

N

8655-F301-14R

CFC_1000

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

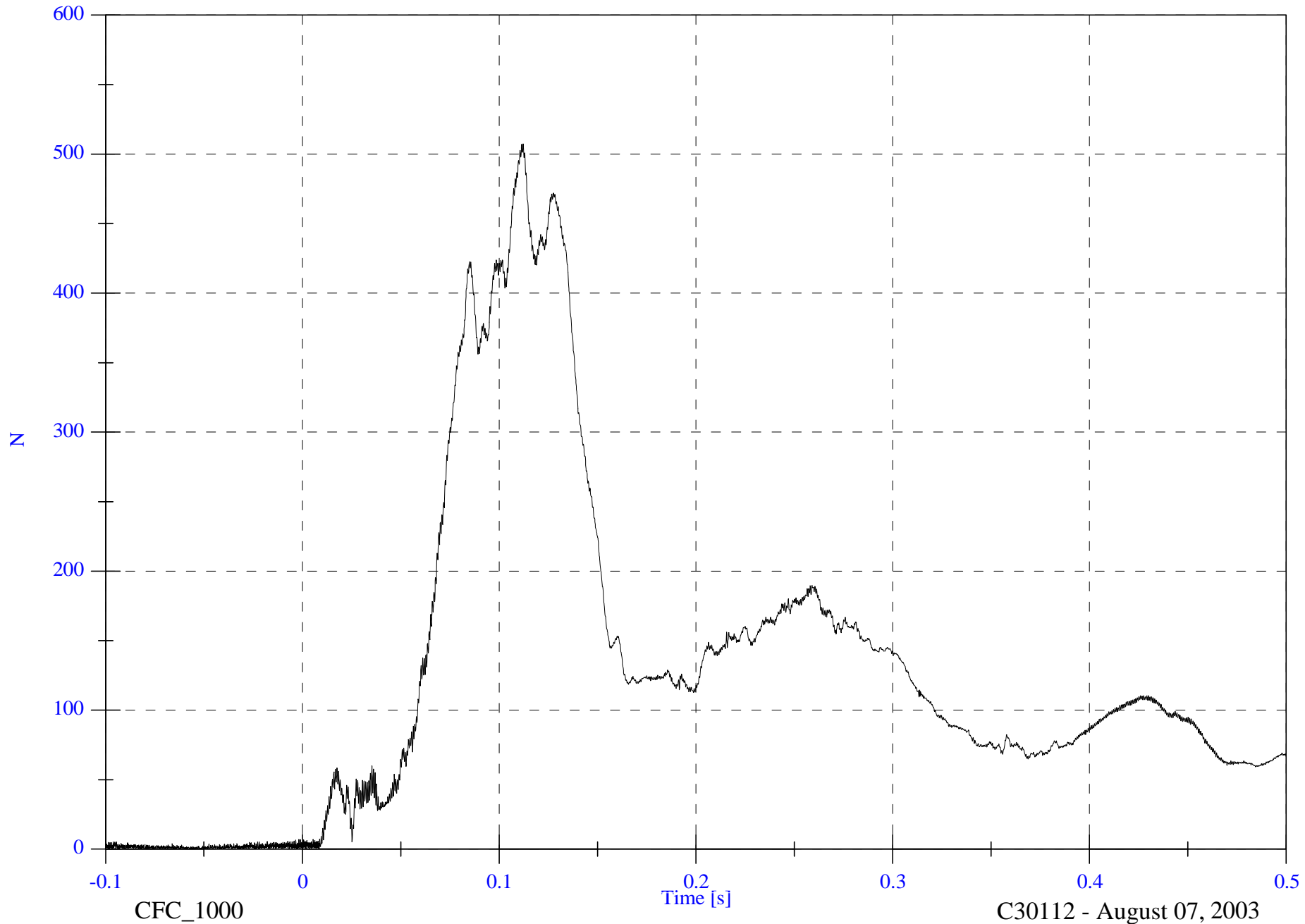
V2P1 Upper Neck F Resultant

Max: 507.6 [N] at 0.112 [s]

Min: 0.1 [N] at -0.097 [s]

B-21

8655-F301-14R



CFC_1000

Time [s]

C30112 - August 07, 2003

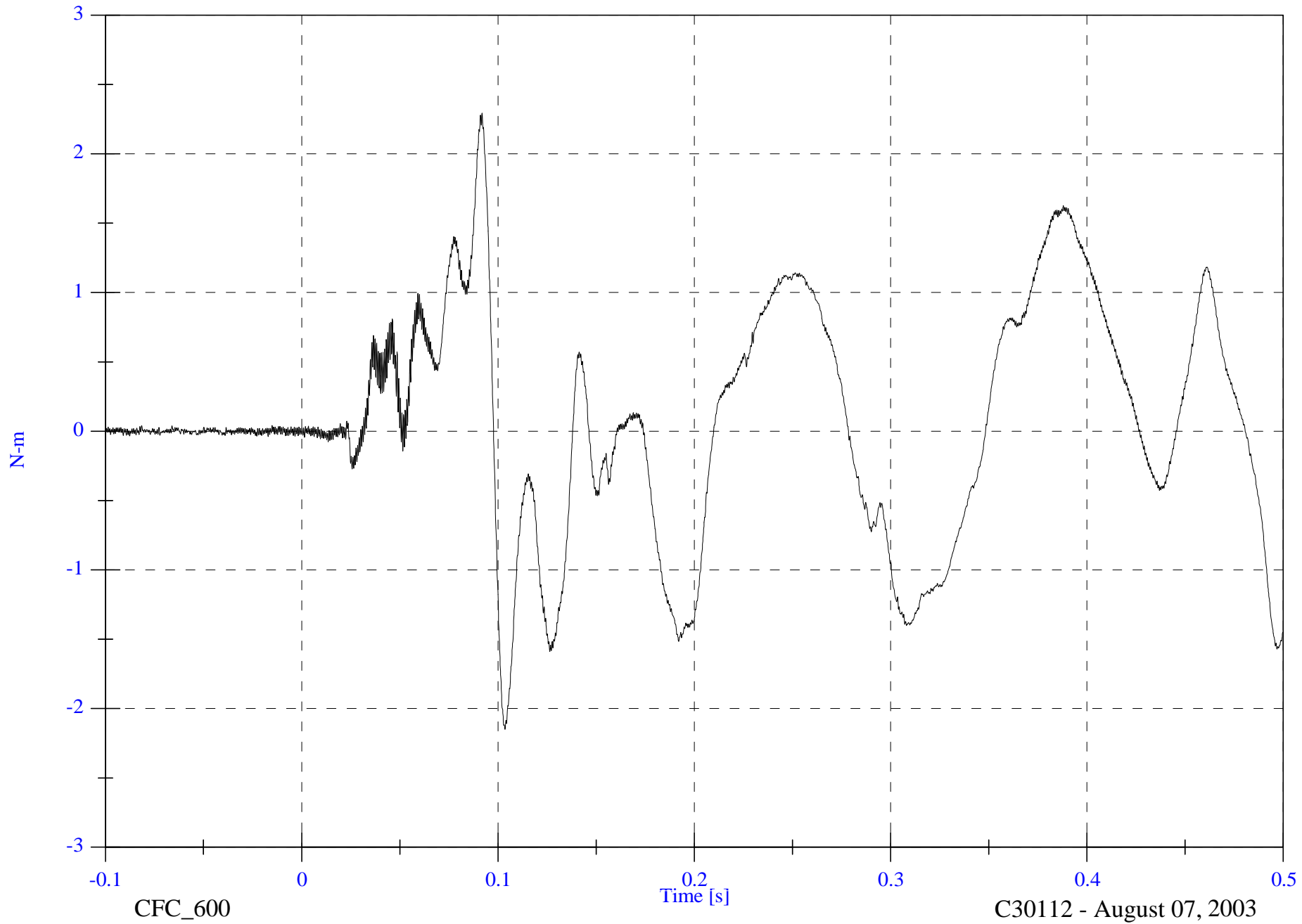
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Upper Neck Mx

Max: 2.3 [N-m] at 0.092 [s]
Min: -2.1 [N-m] at 0.104 [s]

B-22

8655-F301-14R



CFC_600

Time [s]

C30112 - August 07, 2003

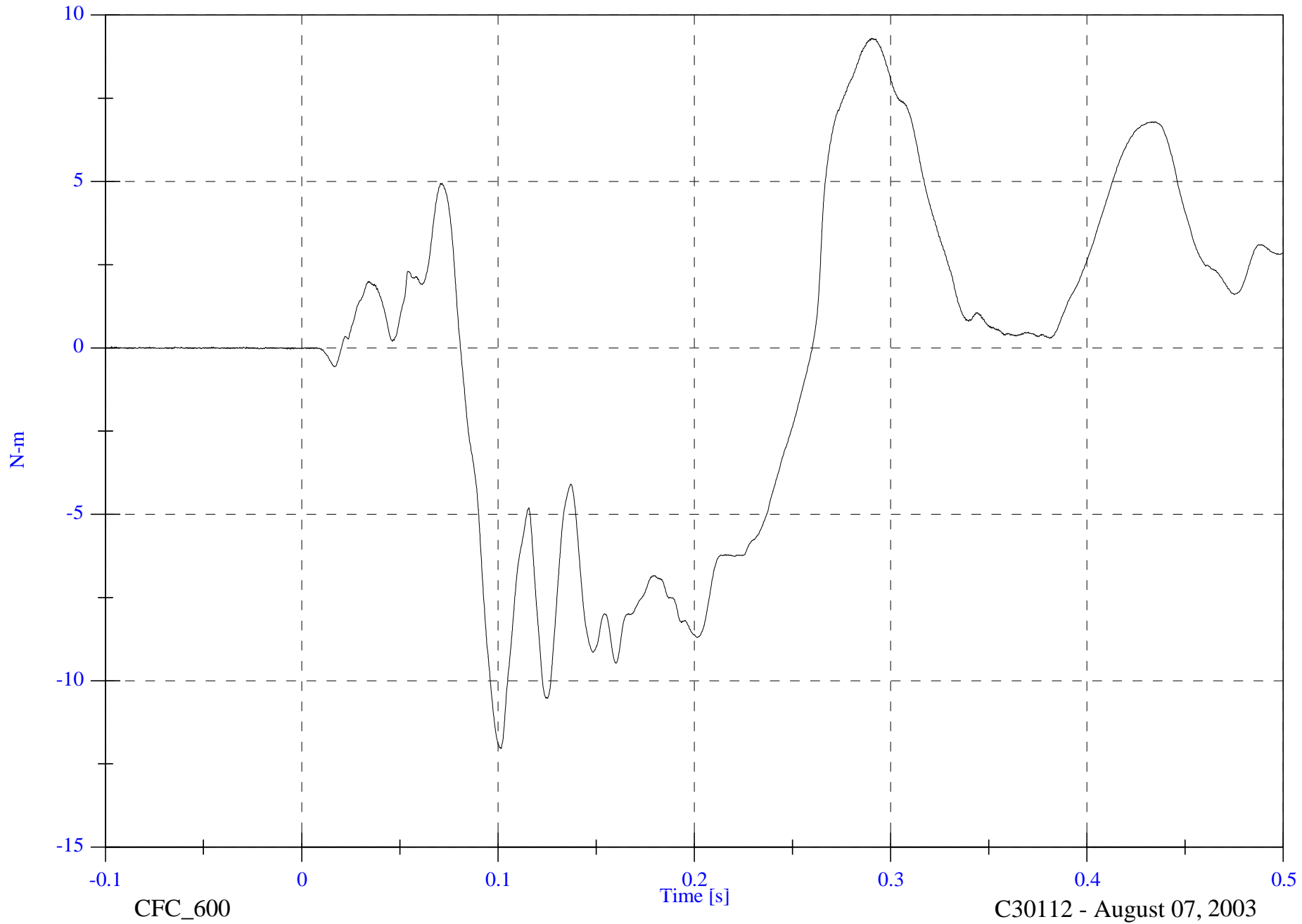
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Upper Neck My

Max: 9.3 [N-m] at 0.290 [s]
Min: -12.0 [N-m] at 0.102 [s]

B-23

8655-F301-14R



CFC_600

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

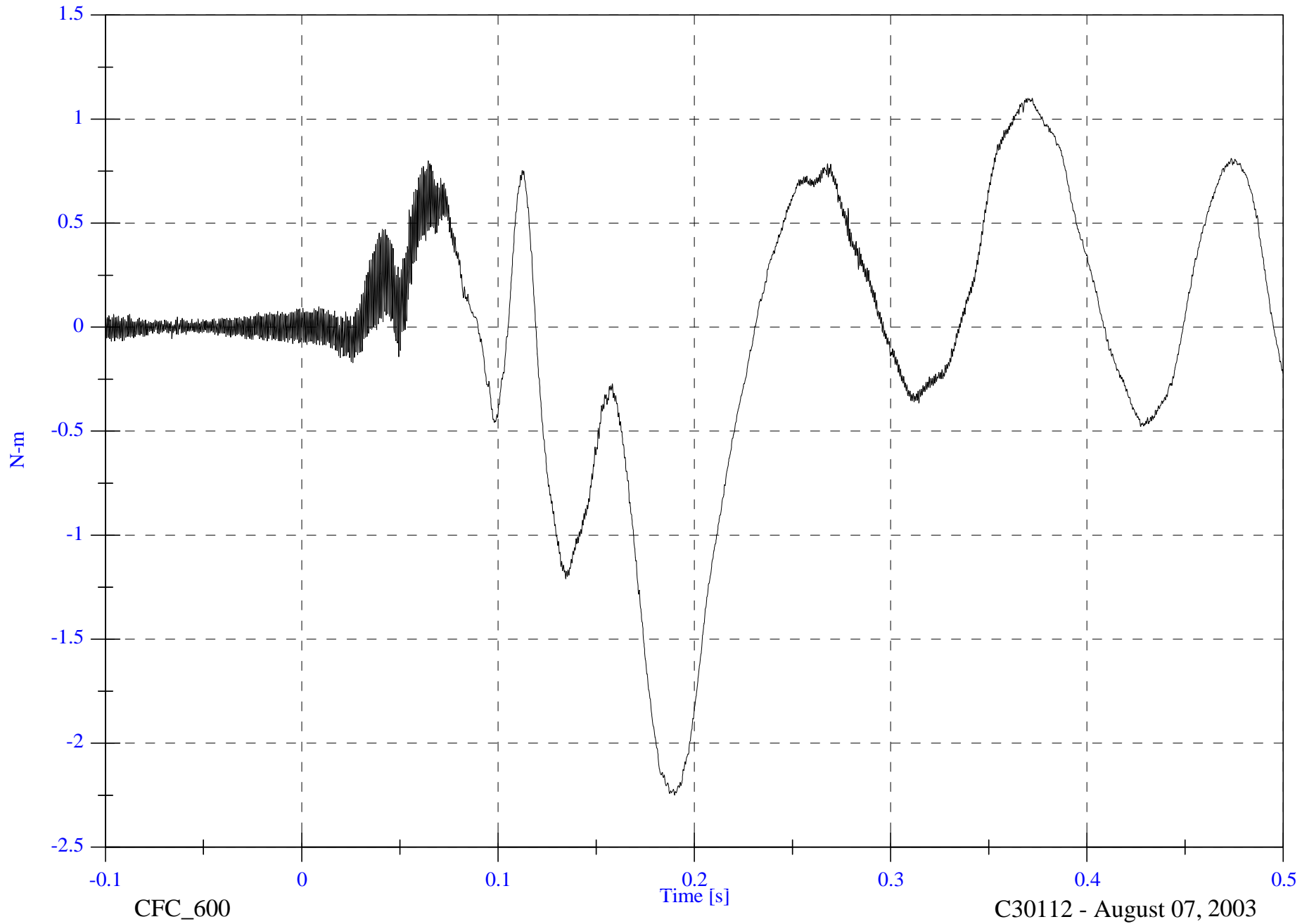
V2P1 Upper Neck Mz

Max: 1.1 [N-m] at 0.372 [s]

Min: -2.2 [N-m] at 0.190 [s]

B-24

8655-F301-14R



CFC_600

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

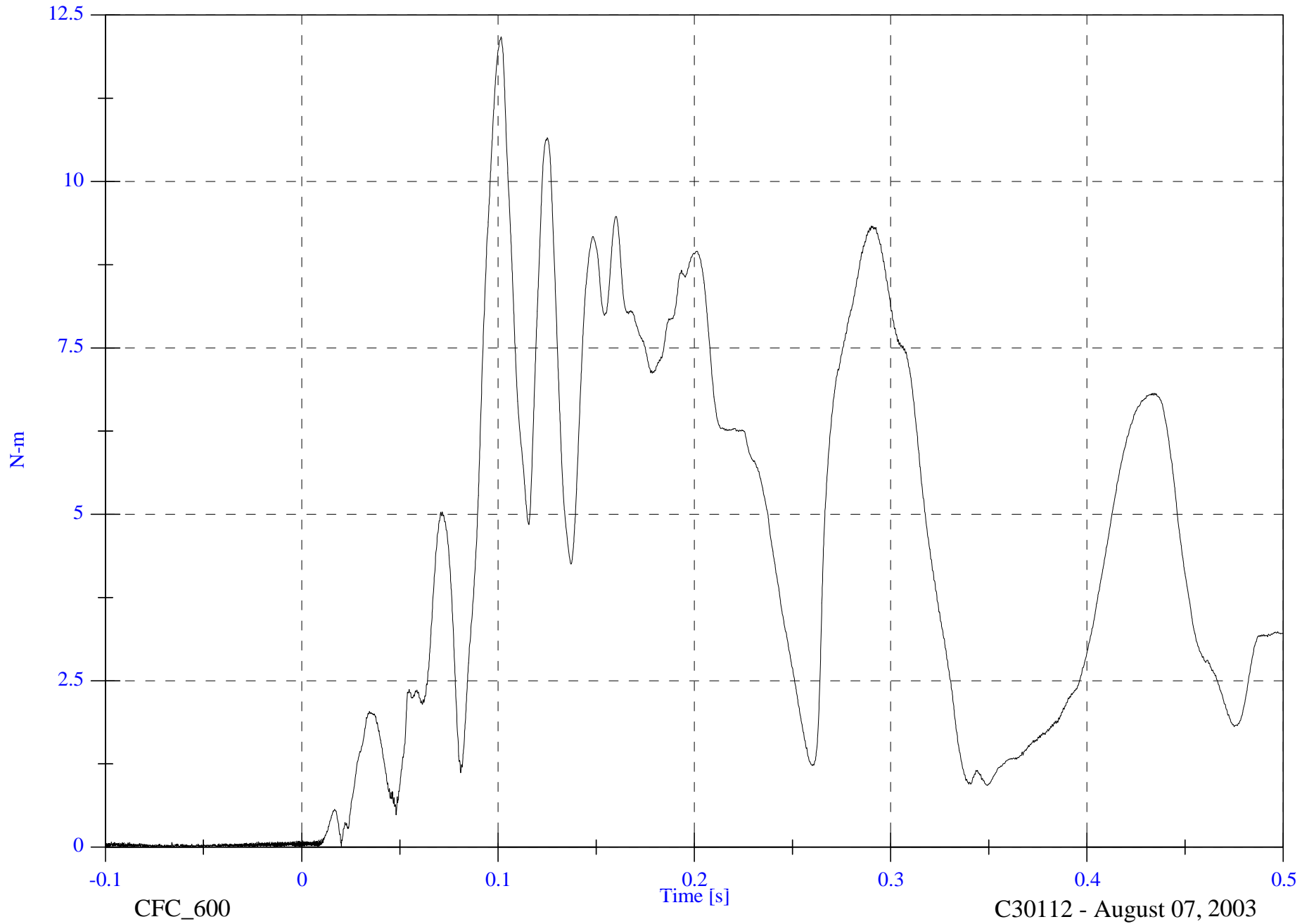
V2P1 Upper Neck M Resultant

Max: 12.2 [N-m] at 0.102 [s]

Min: 0.0 [N-m] at -0.062 [s]

B-25

8655-F301-14R



CFC_600

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

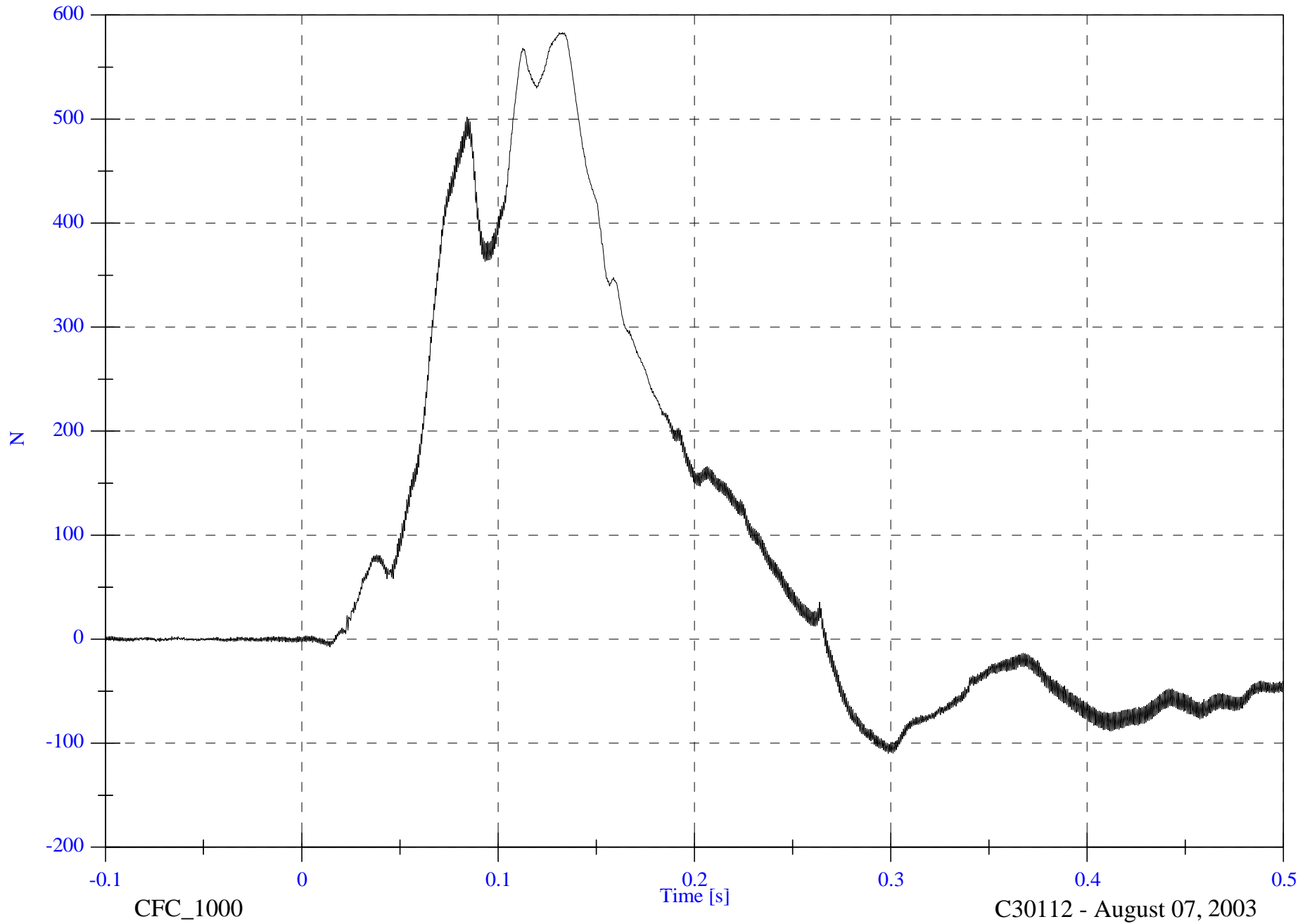
V2P1 Lower Neck Fx

Max: 583.2 [N] at 0.133 [s]

Min: -109.9 [N] at 0.299 [s]

B-26

8655-F301-14R



CFC_1000

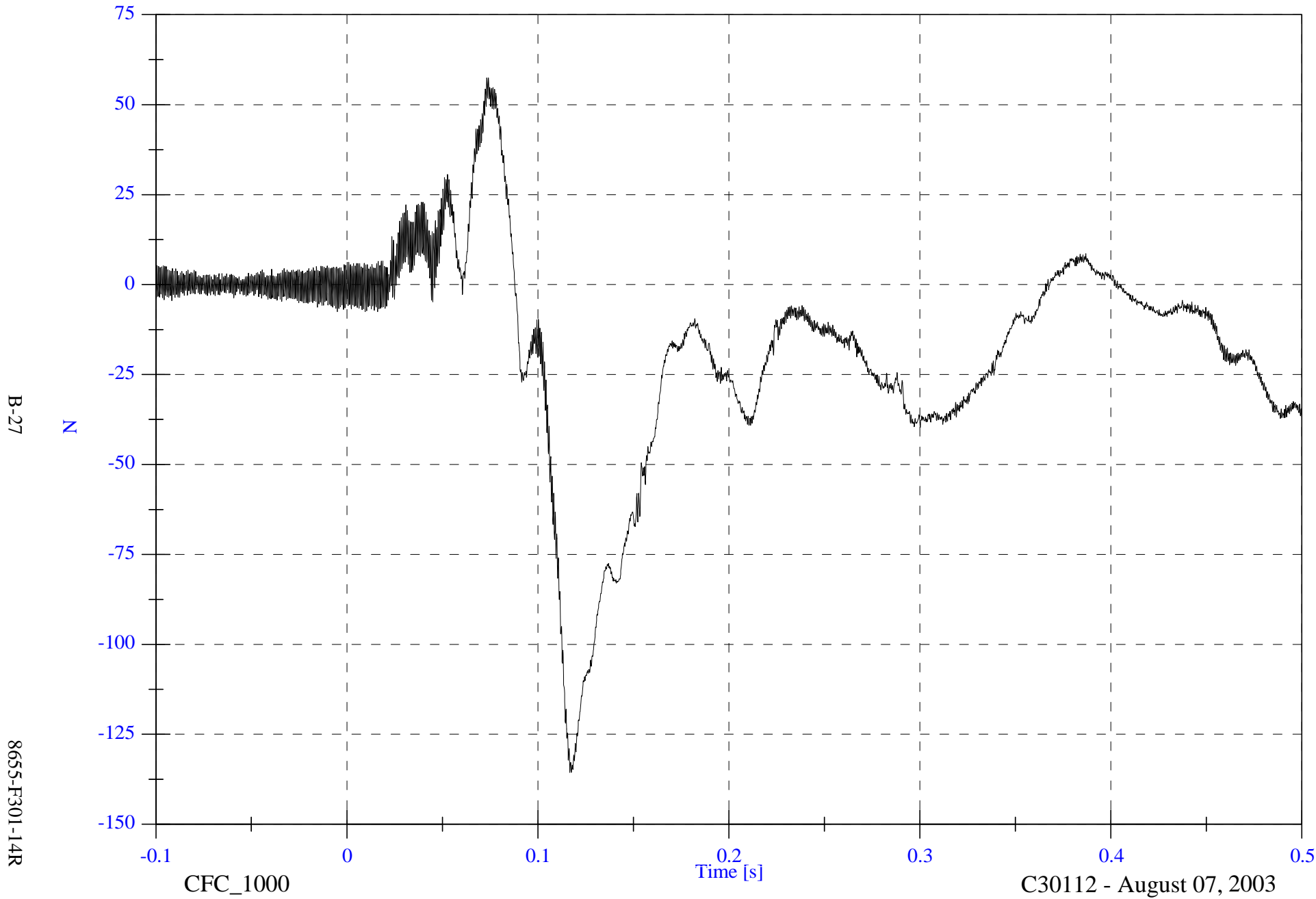
Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Lower Neck Fy

Max: 57.5 [N] at 0.073 [s]
Min: -135.6 [N] at 0.117 [s]



B-27

N

8655-F301-14R

CFC_1000

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

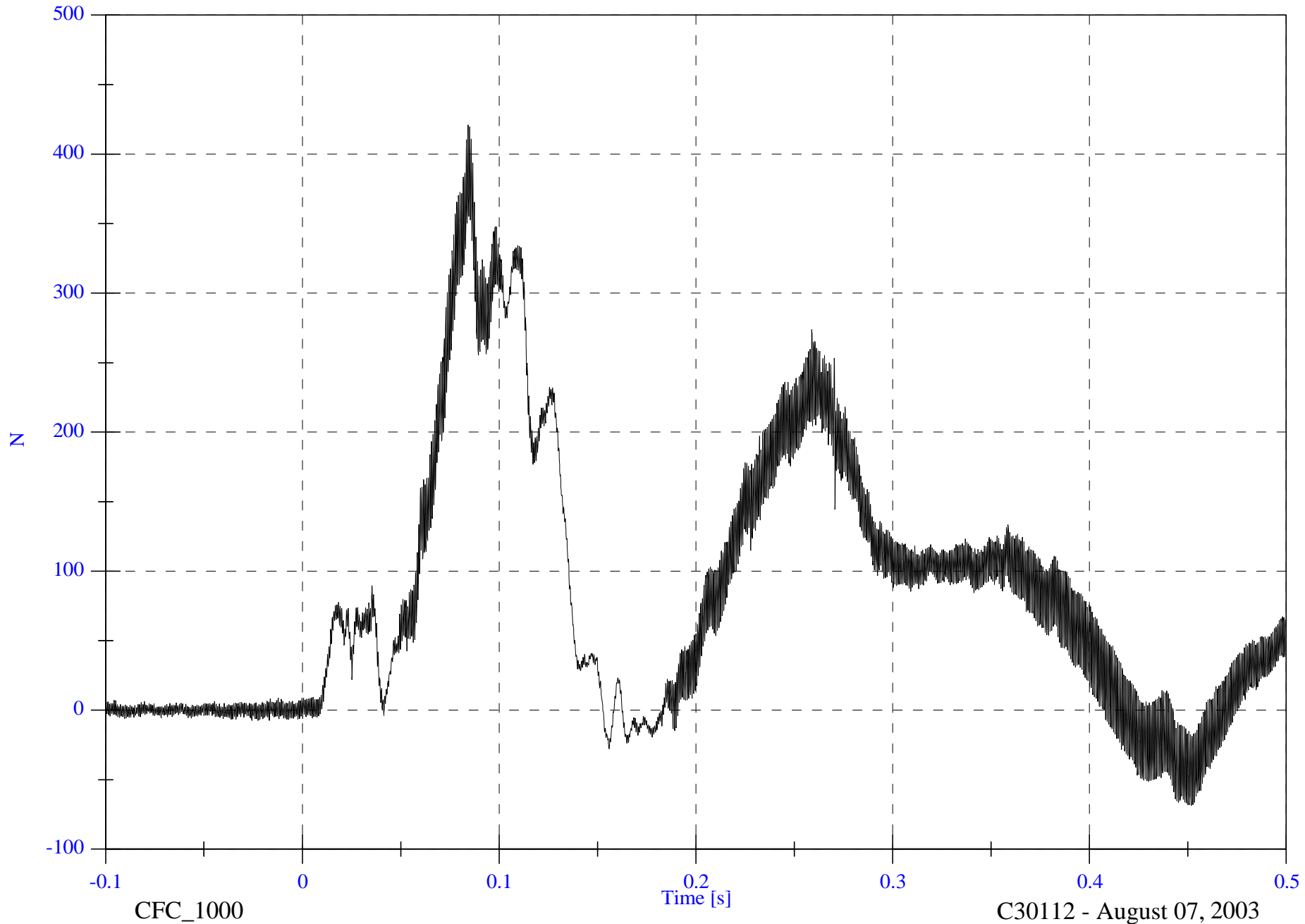
V2P1 Lower Neck Fz

Max: 420.9 [N] at 0.084 [s]

Min: -68.6 [N] at 0.452 [s]

B-28

8655-F301-14R



CFC_1000

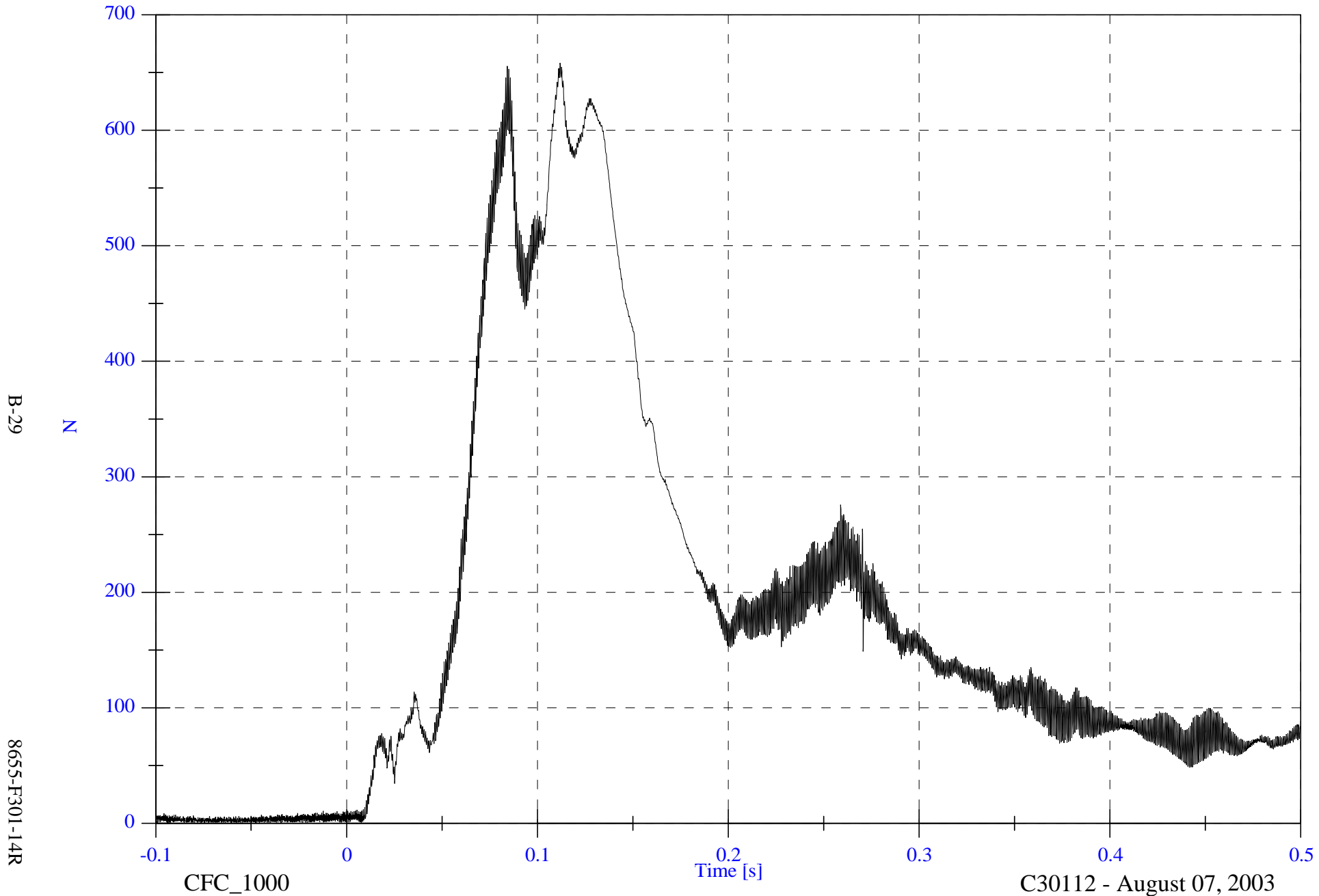
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Lower Neck F Resultant

Max: 658.1 [N] at 0.112 [s]

Min: 0.2 [N] at -0.040 [s]



B-29

8655-F301-14R

CFC_1000

Time [s]

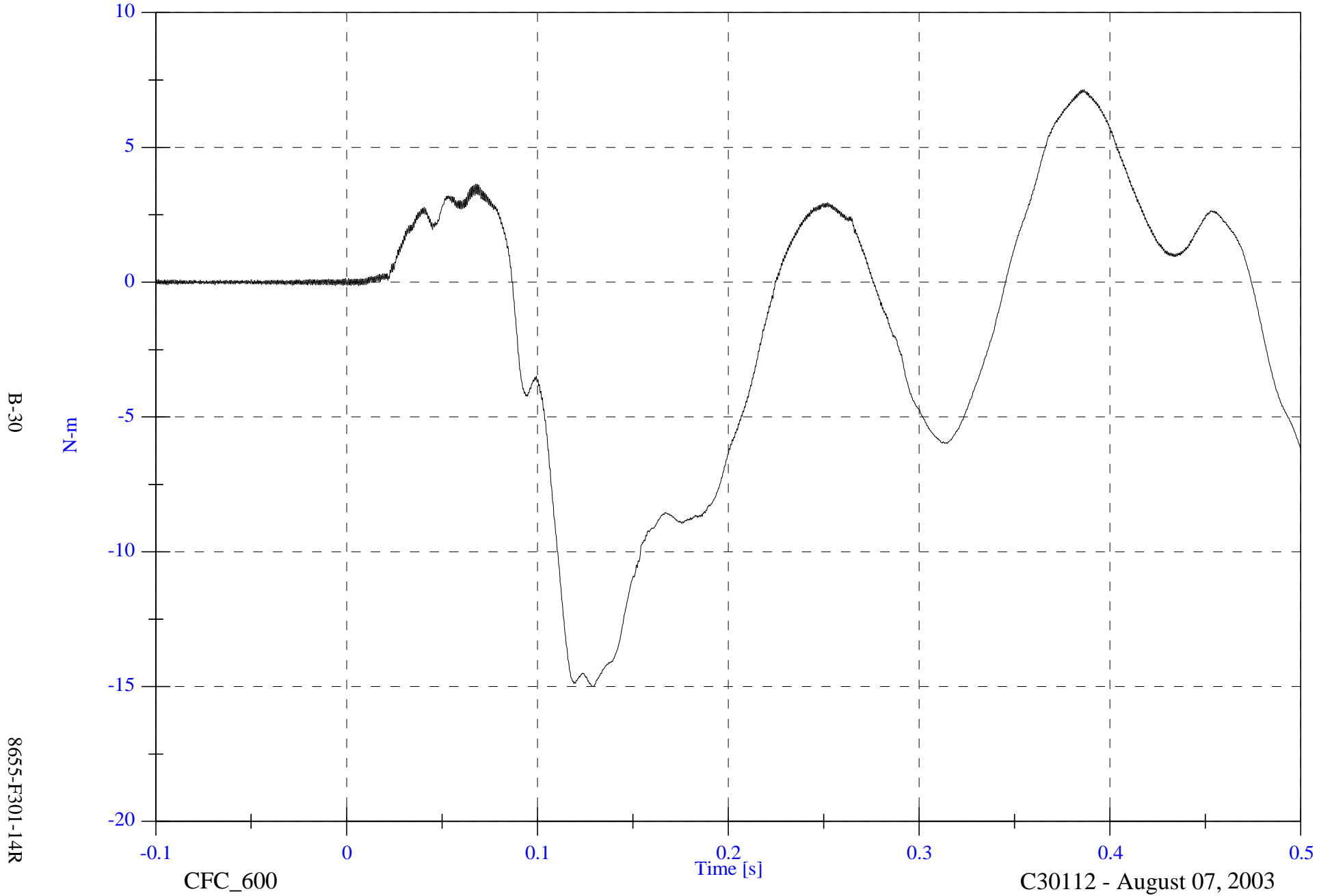
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Lower Neck Mx

Max: 7.1 [N-m] at 0.387 [s]

Min: -15.0 [N-m] at 0.129 [s]



B-30

8655-F301-14R

CFC_600

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

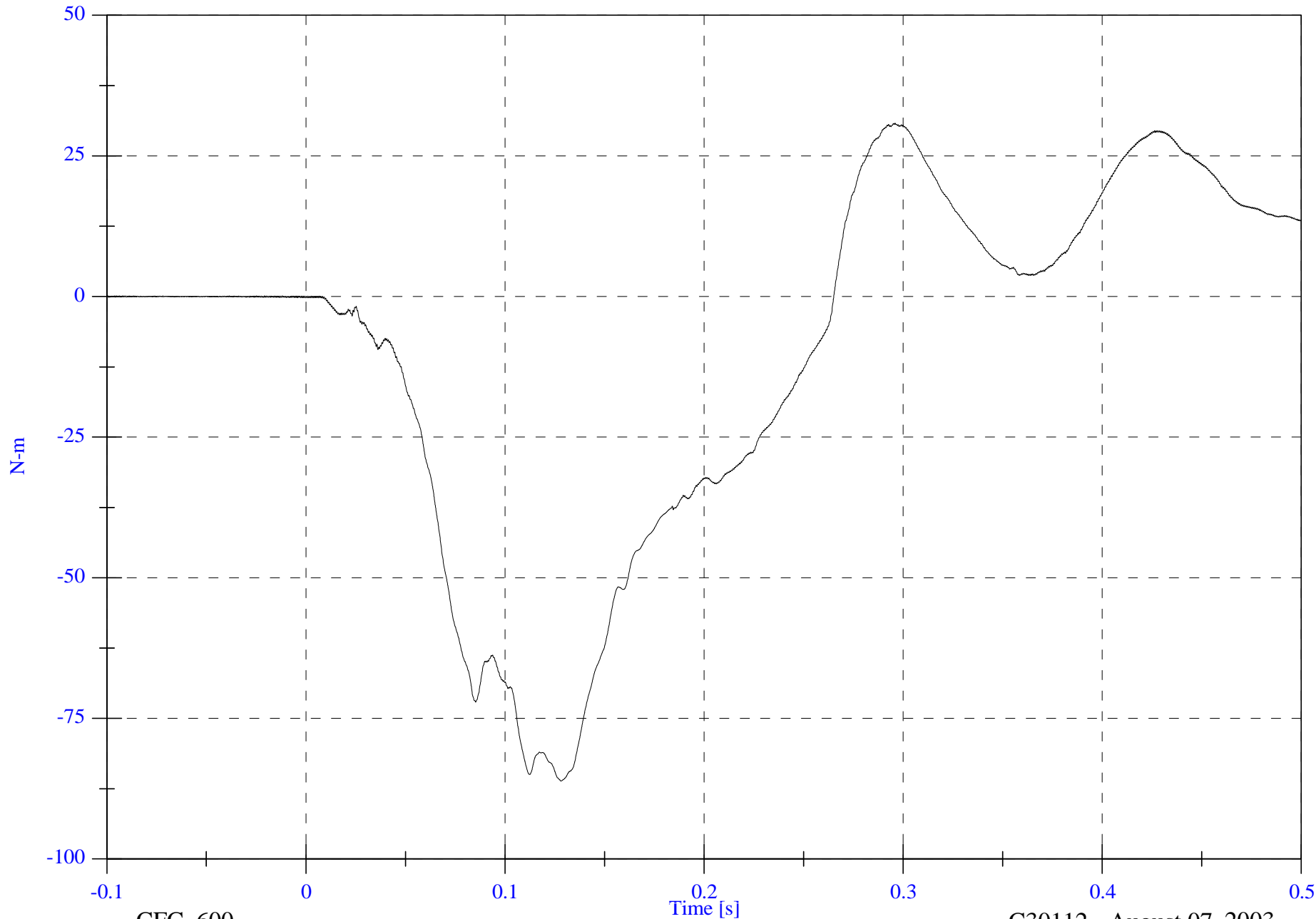
V2P1 Lower Neck My

Max: 30.8 [N-m] at 0.296 [s]

Min: -86.1 [N-m] at 0.128 [s]

B-31

8655-F301-14R



CFC_600

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Lower Neck Mz

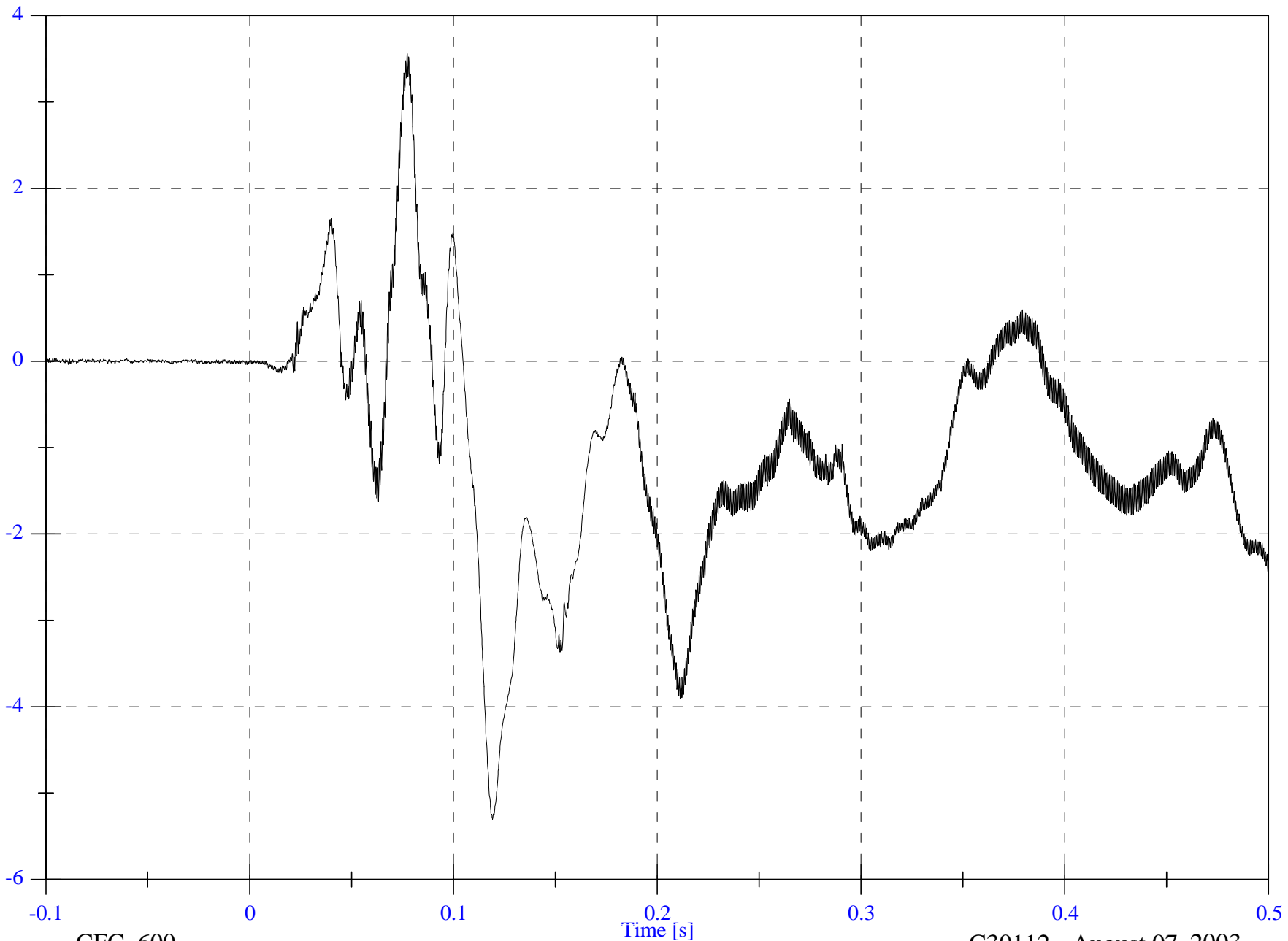
Max: 3.6 [N-m] at 0.077 [s]

Min: -5.3 [N-m] at 0.119 [s]

B-32

8655-F301-14R

N-m



CFC_600

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

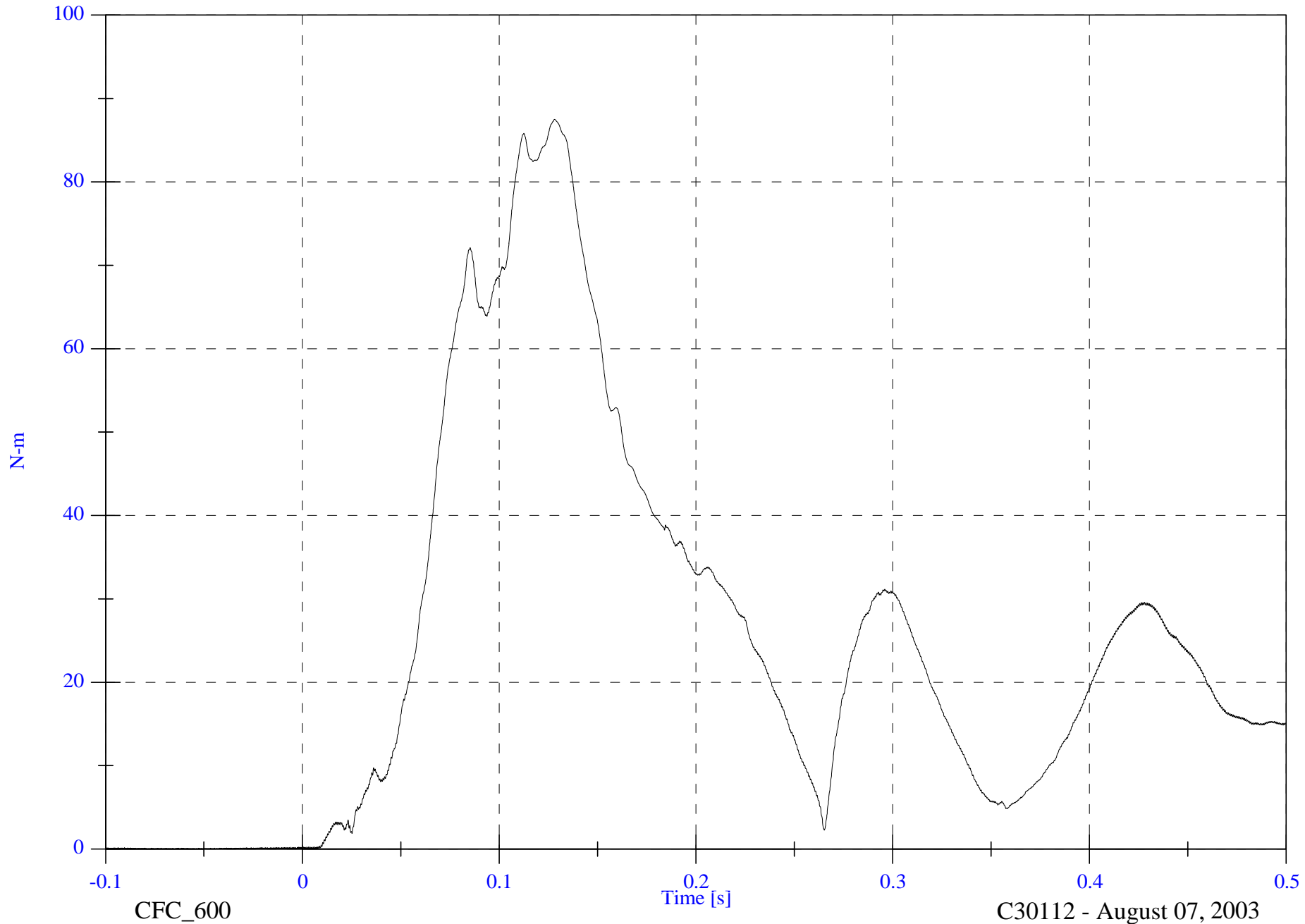
V2P1 Lower Neck M Resultant

Max: 87.5 [N-m] at 0.128 [s]

Min: 0.0 [N-m] at -0.040 [s]

B-33

8655-F301-14R



CFC_600

C30112 - August 07, 2003

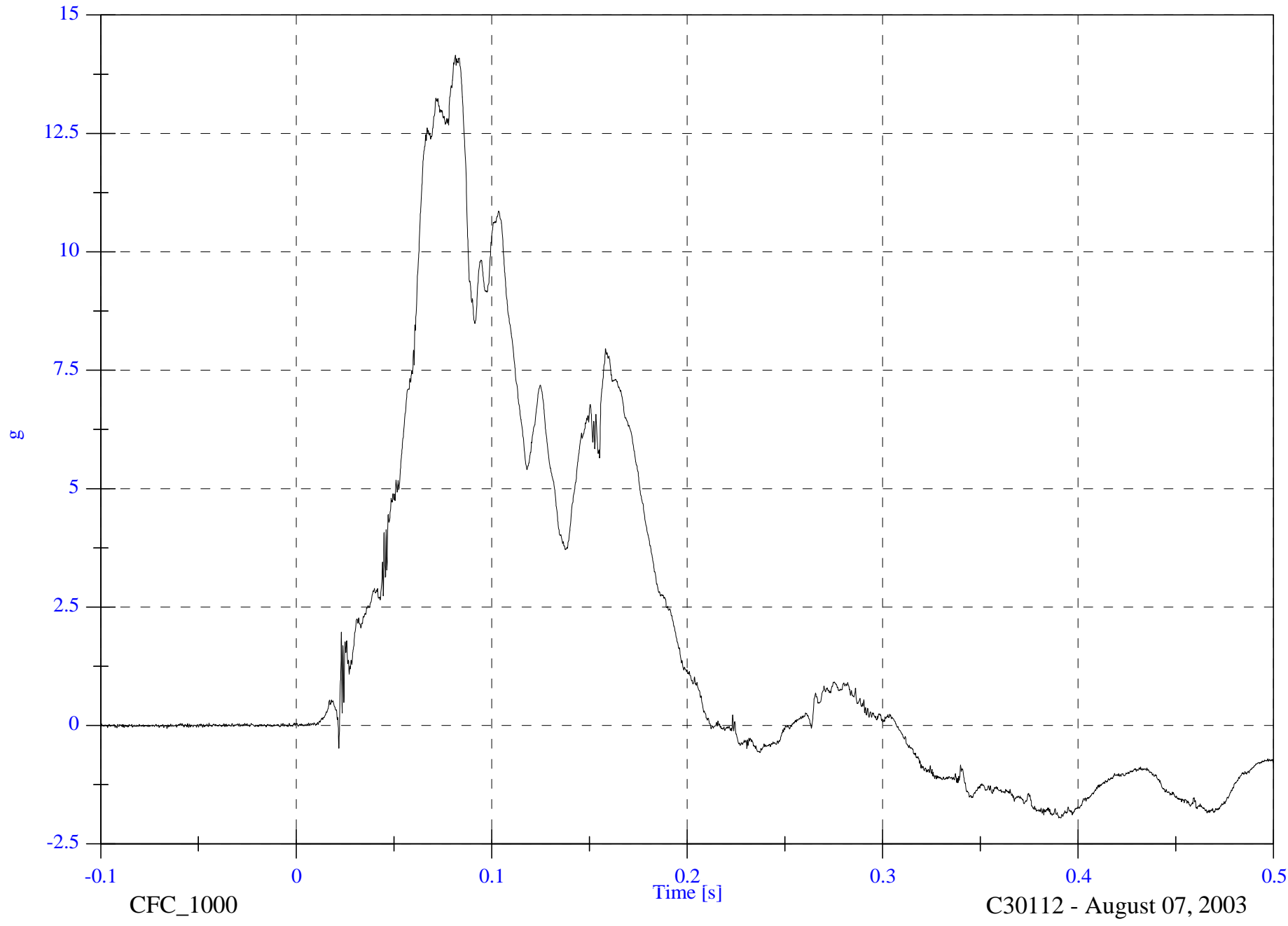
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Lower Neck Ax

Max: 14.2 [g] at 0.081 [s]
Min: -2.0 [g] at 0.391 [s]

B-34

8655-F301-14R



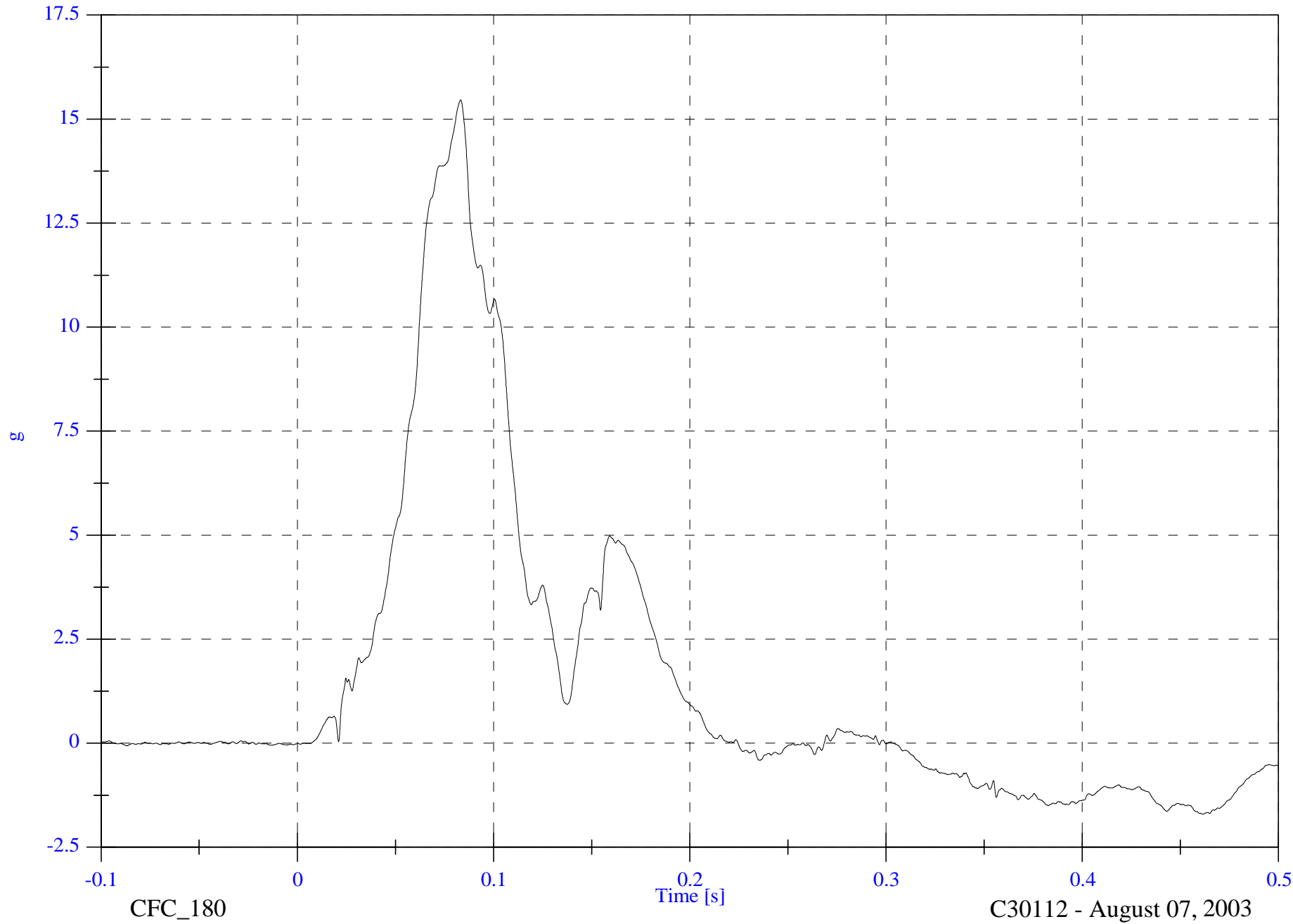
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Chest Ax

Max: 15.5 [g] at 0.083 [s]
Min: -1.7 [g] at 0.462 [s]

B-35

8655-F301-14R



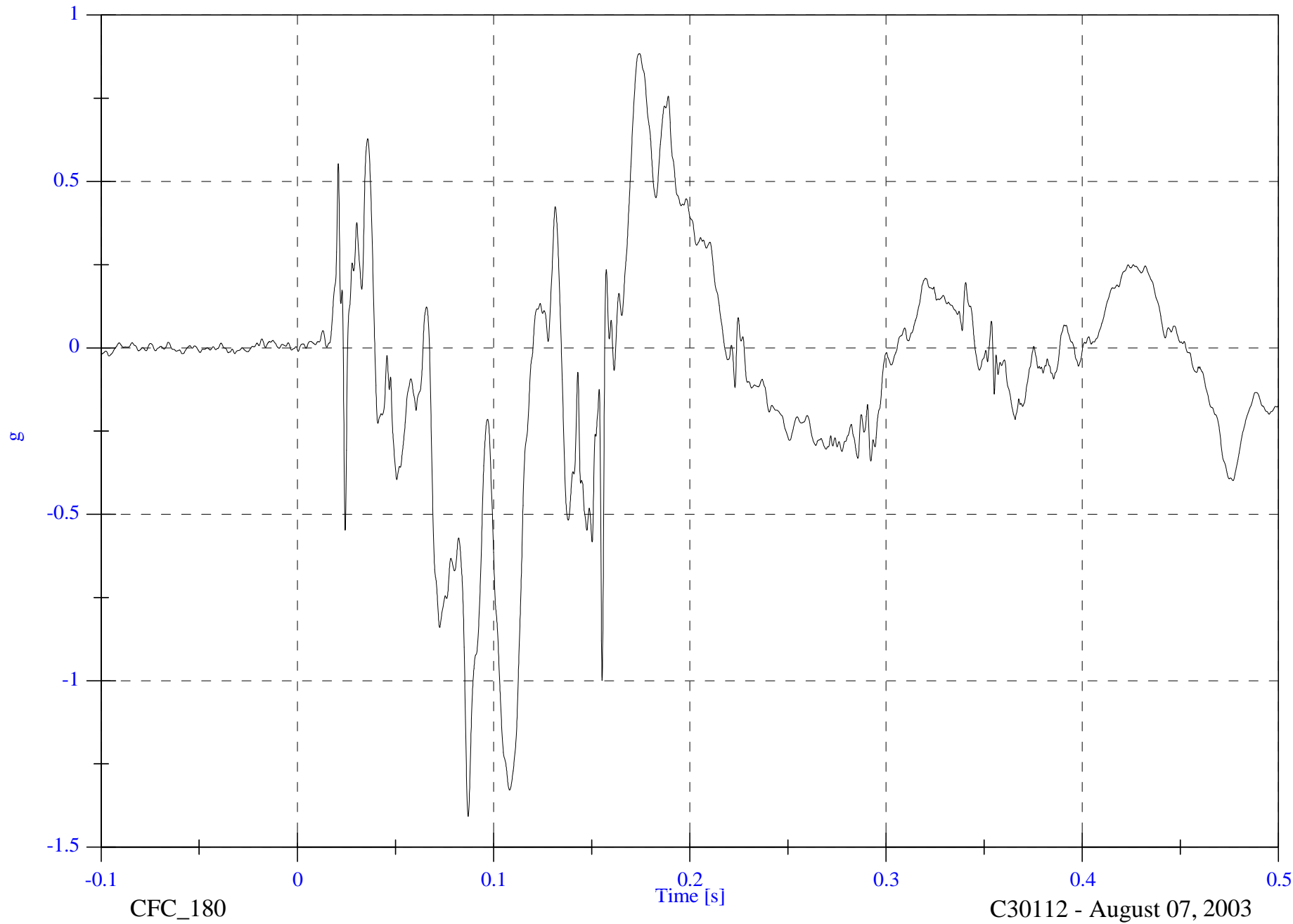
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Chest Ay

Max: 0.9 [g] at 0.174 [s]
Min: -1.4 [g] at 0.087 [s]

B-36

8655-F301-14R



FMVSS 301 Test 5 - 2003 Saturn Ion

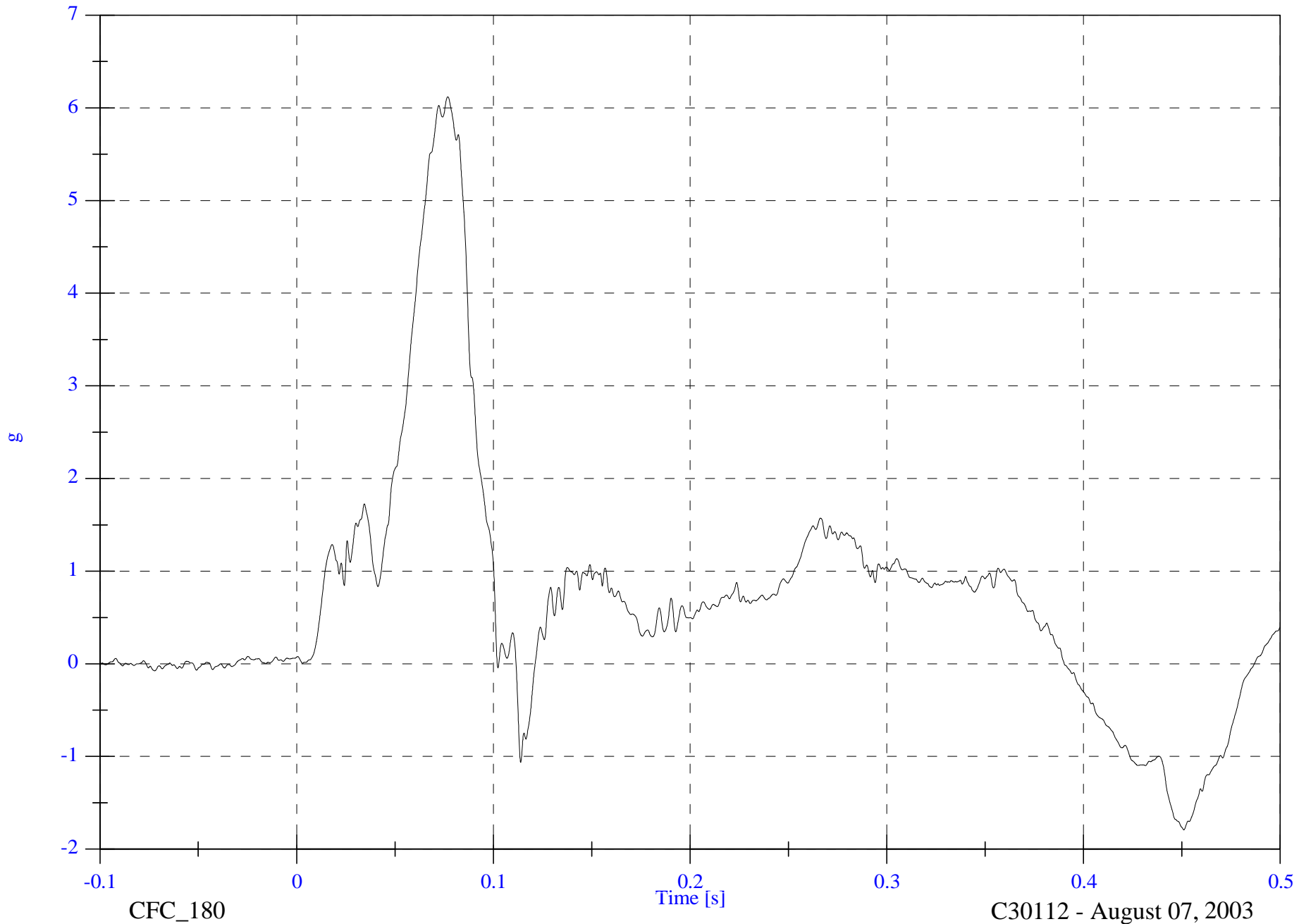
V2P1 Chest Az

Max: 6.1 [g] at 0.077 [s]

Min: -1.8 [g] at 0.451 [s]

B-37

8655-F301-14R



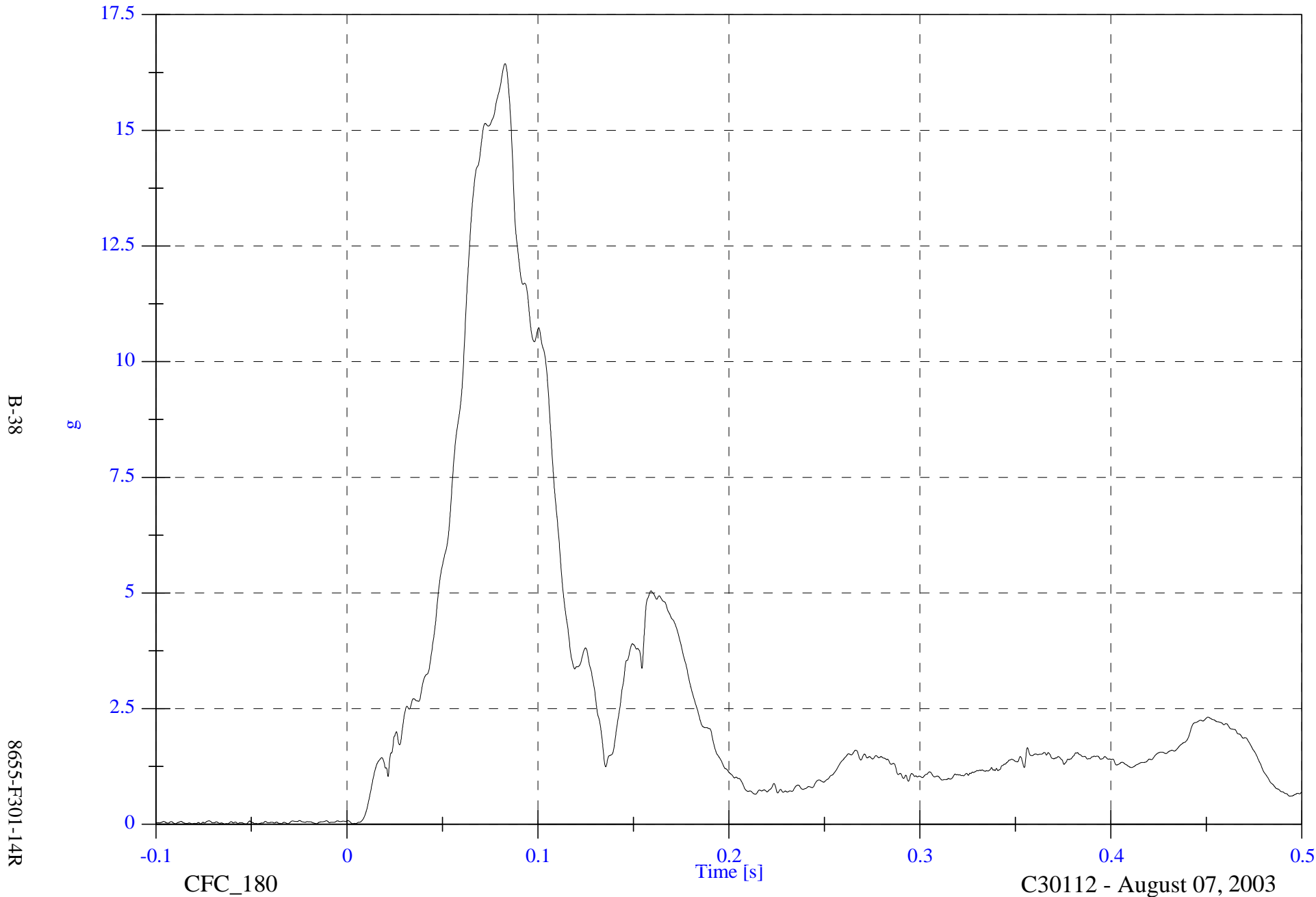
CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Chest A Resultant

Max: 16.4 [g] at 0.083 [s]
Min: 0.0 [g] at -0.064 [s]



B-38

8655-F301-14R

CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

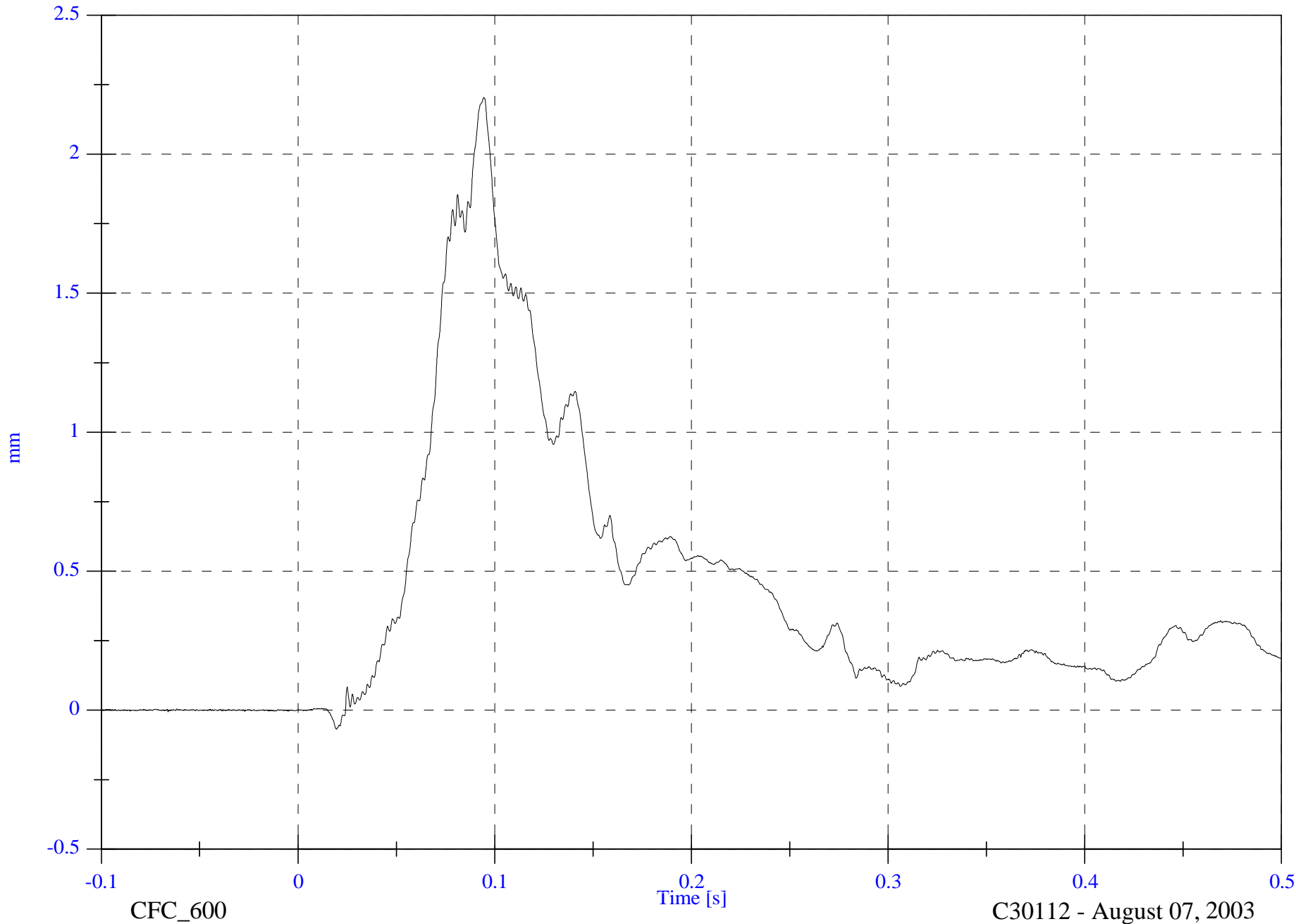
V2P1 Chest Dx

Max: 2.2 [mm] at 0.095 [s]

Min: -0.1 [mm] at 0.020 [s]

B-39

8655-F301-14R



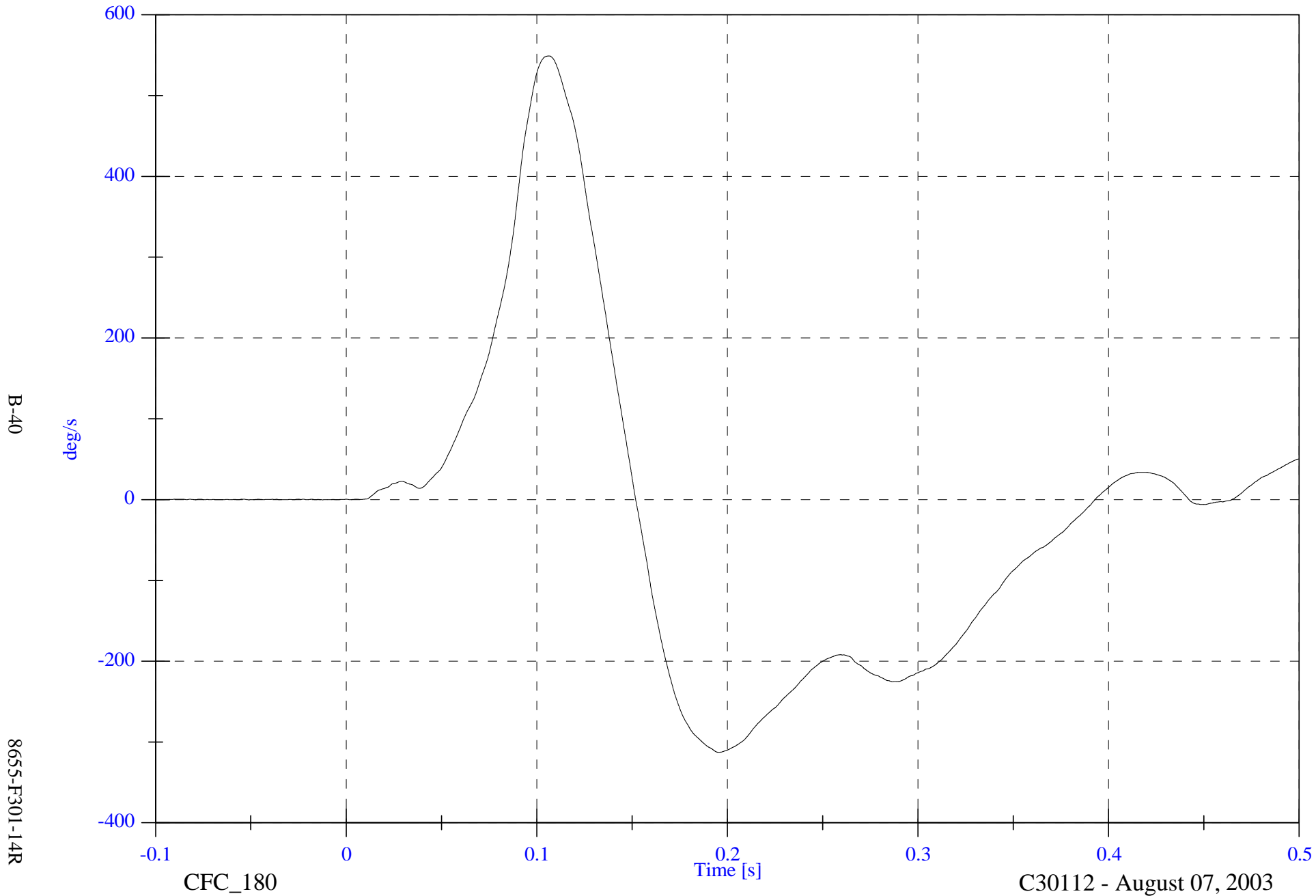
CFC_600

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Chest AVy

Max: 549.1 [deg/s] at 0.106 [s]
Min: -312.8 [deg/s] at 0.195 [s]



B-40

8655-F301-14R

CFC_180

Time [s]

C30112 - August 07, 2003

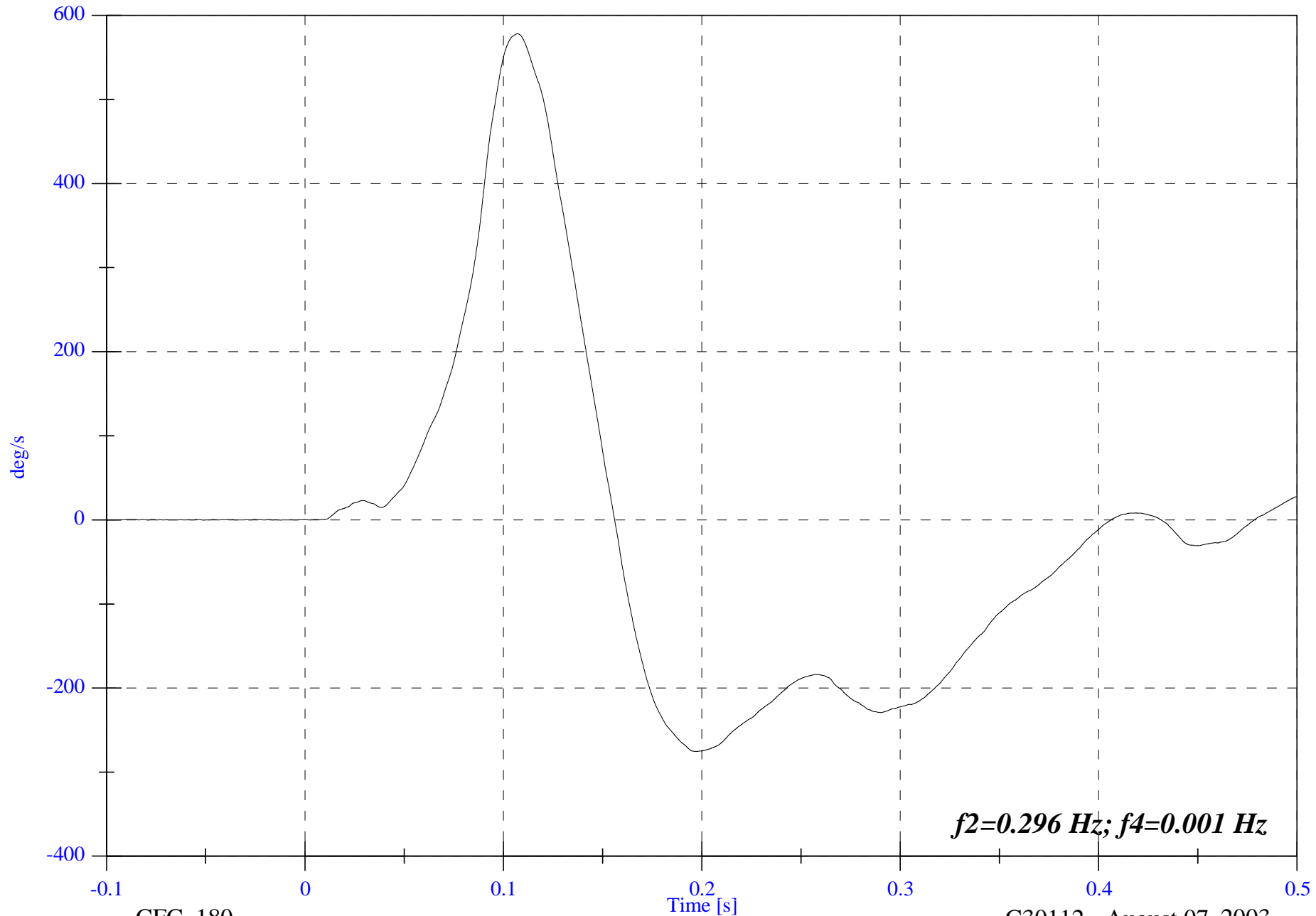
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Chest Comp AVy

Max: 577.9 [deg/s] at 0.107 [s]
Min: -275.5 [deg/s] at 0.197 [s]

B-41

8655-F301-14R



f2=0.296 Hz; f4=0.001 Hz

CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

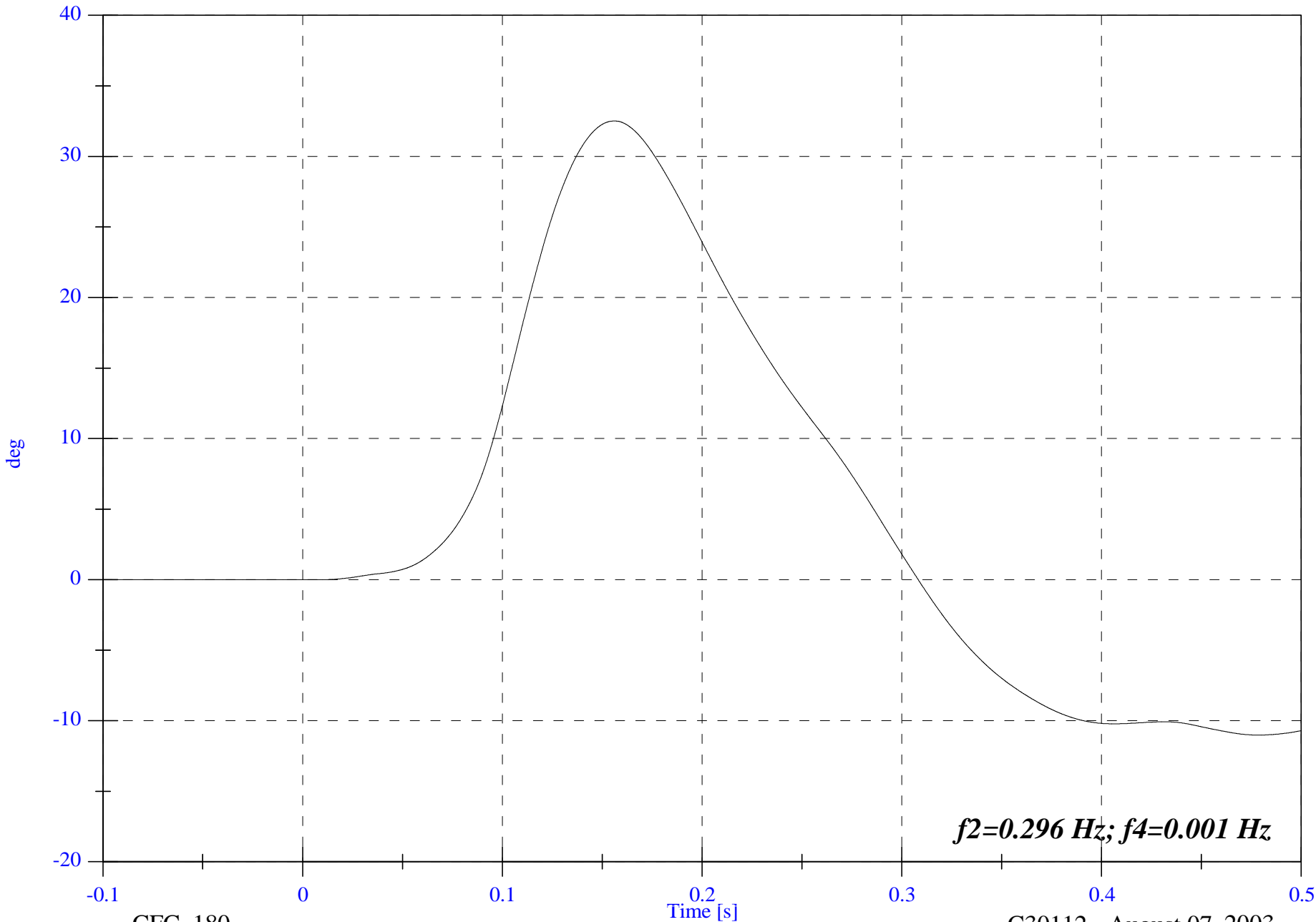
V2P1 Chest Comp ADy

Max: 32.5 [deg] at 0.156 [s]

Min: -11.0 [deg] at 0.478 [s]

B-42

8655-F301-14R



CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

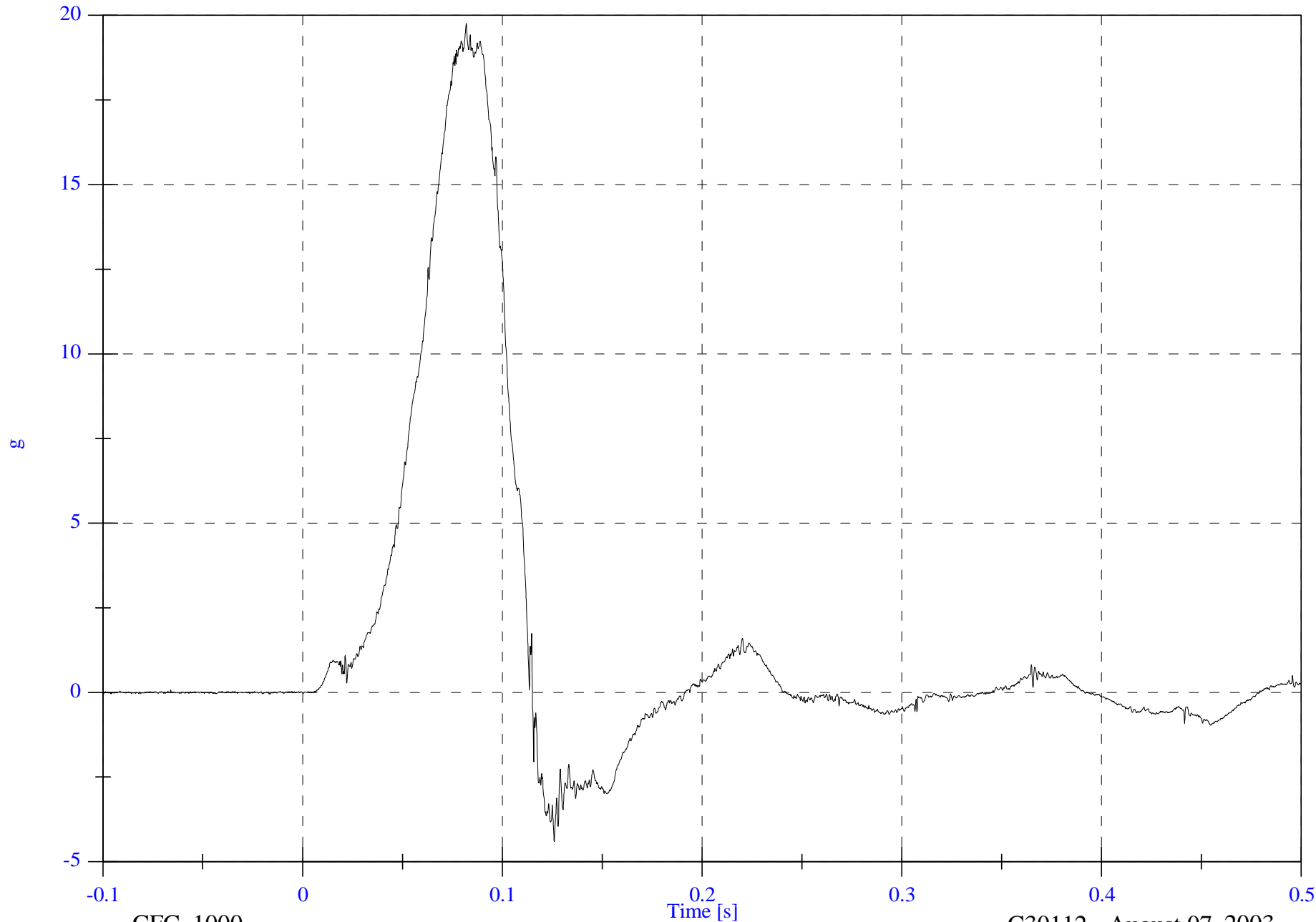
V2P1 Pelvic Ax

Max: 19.8 [g] at 0.082 [s]

Min: -4.4 [g] at 0.126 [s]

B-43

8655-F301-14R



CFC_1000

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

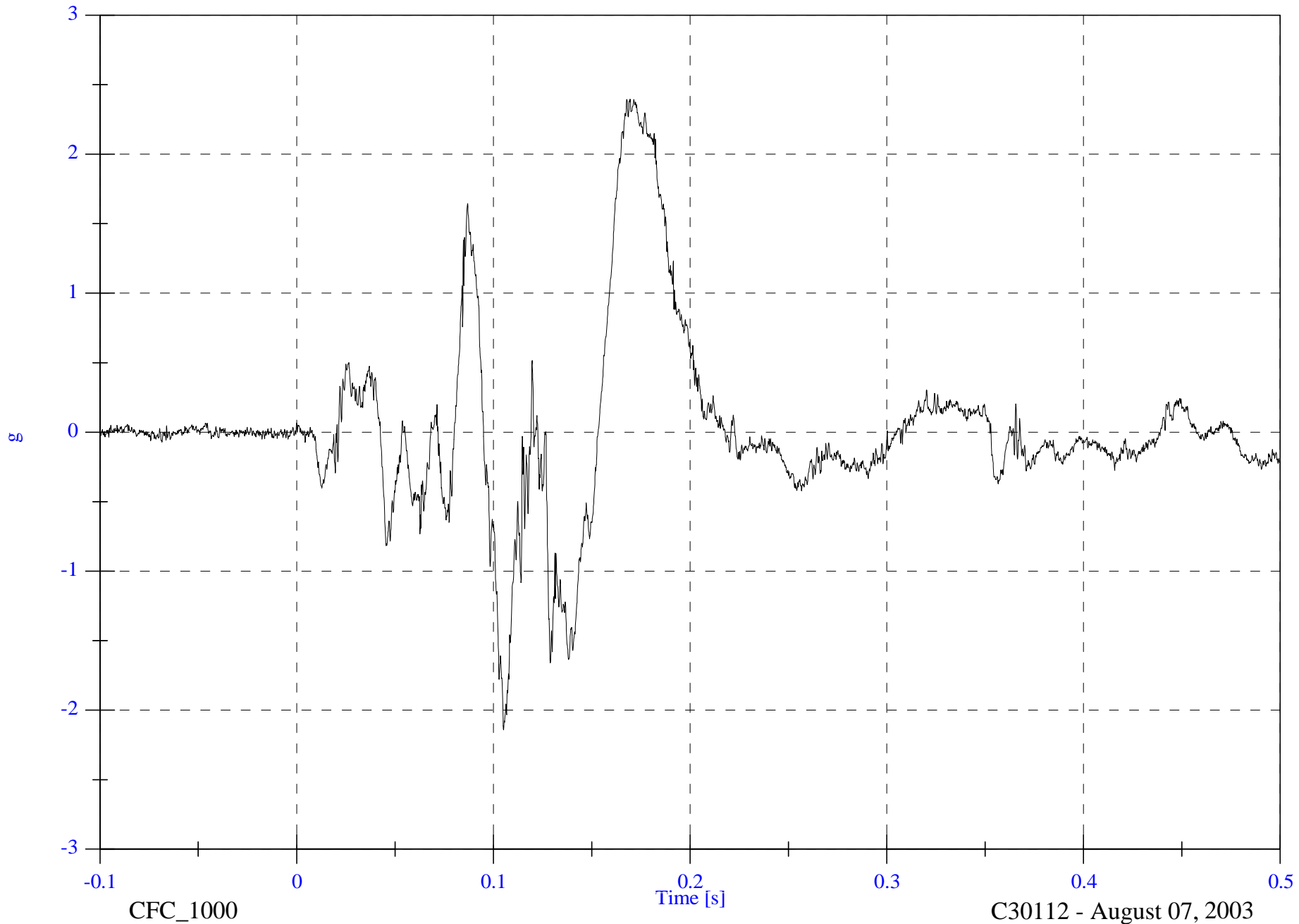
V2P1 Pelvic Ay

Max: 2.4 [g] at 0.170 [s]

Min: -2.1 [g] at 0.105 [s]

B-44

8655-F301-14R



CFC_1000

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

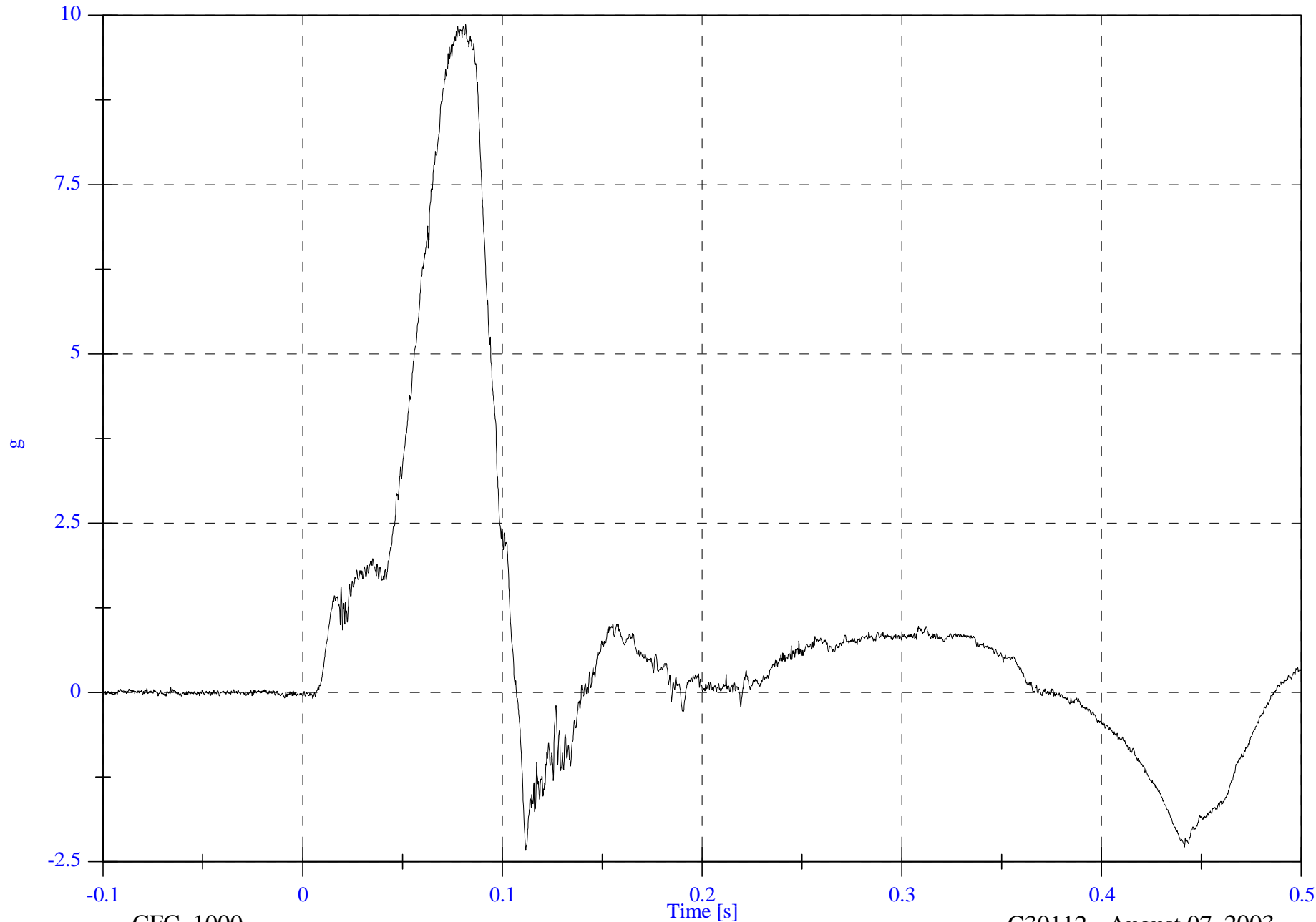
V2P1 Pelvic Az

Max: 9.9 [g] at 0.082 [s]

Min: -2.3 [g] at 0.112 [s]

B-45

8655-F301-14R



CFC_1000

Time [s]

C30112 - August 07, 2003

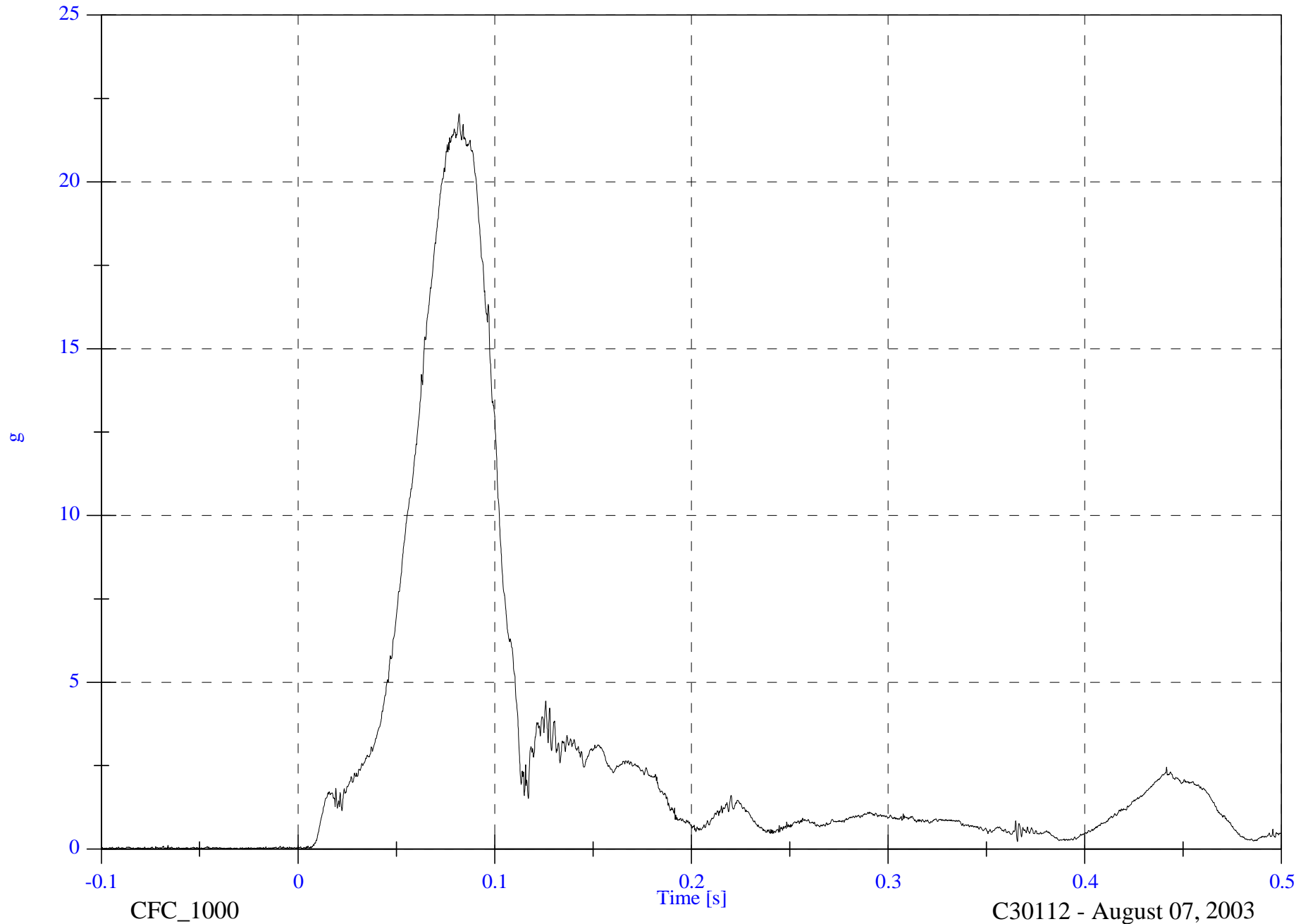
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Pelvic A Resultant

Max: 22.0 [g] at 0.082 [s]
Min: 0.0 [g] at -0.030 [s]

B-46

8655-F301-14R



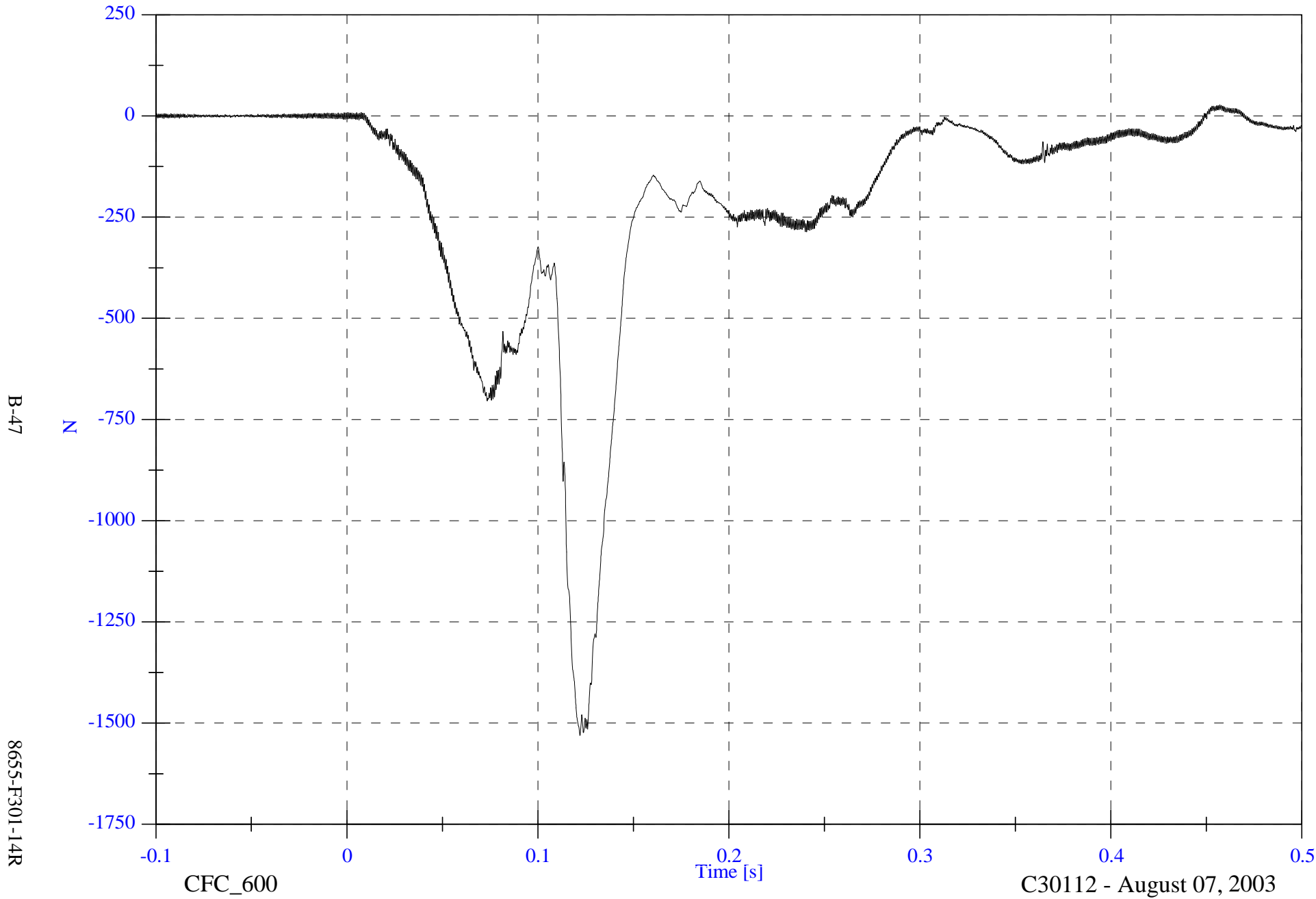
CFC_1000

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Left Femur Fz

Max: 27.8 [N] at 0.457 [s]
Min: -1530.4 [N] at 0.122 [s]



B-47

N

8655-F301-14R

CFC_600

Time [s]

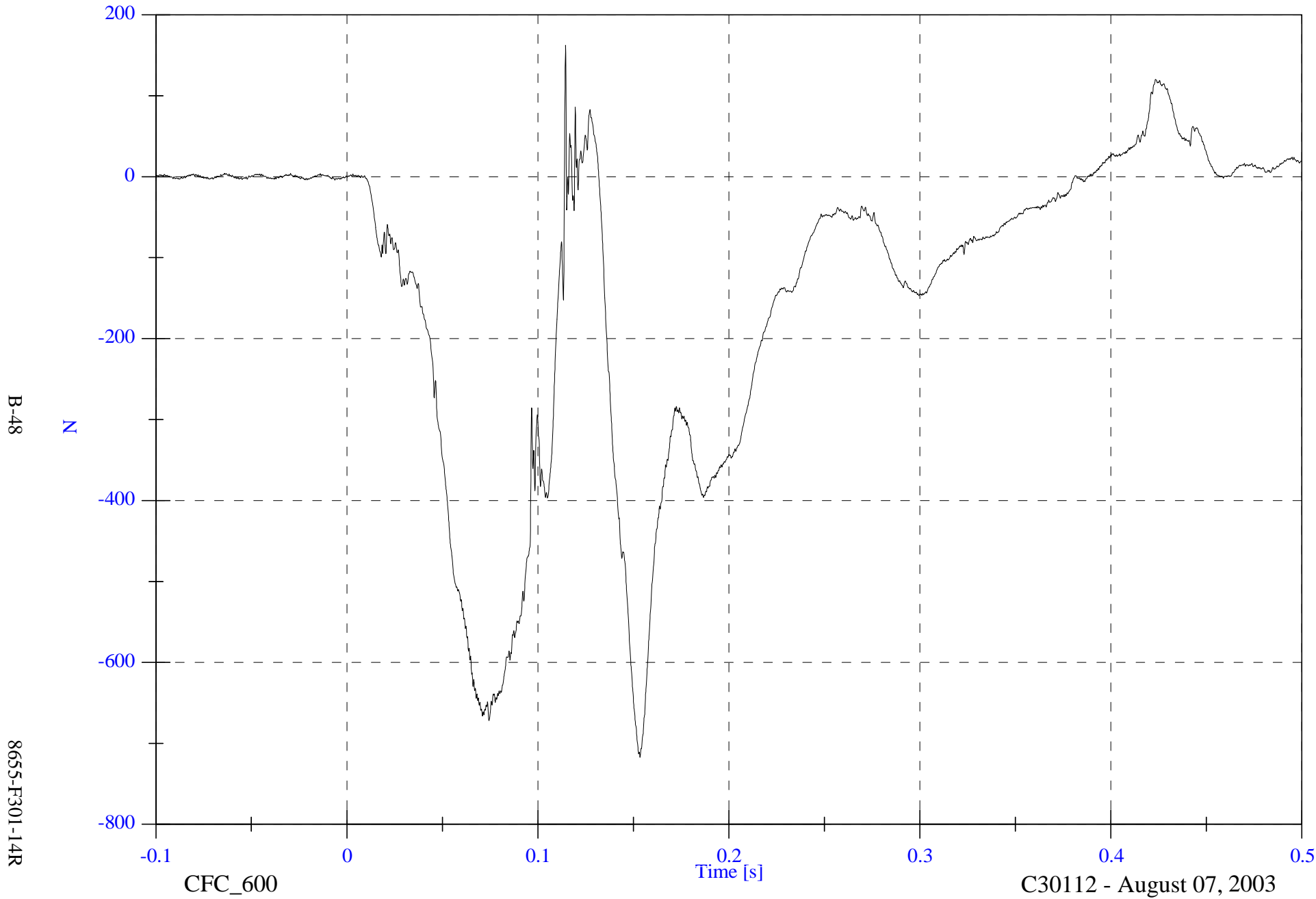
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Right Femur Fz

Max: 162.6 [N] at 0.114 [s]

Min: -717.3 [N] at 0.153 [s]



B-48

8655-F301-14R

CFC_600

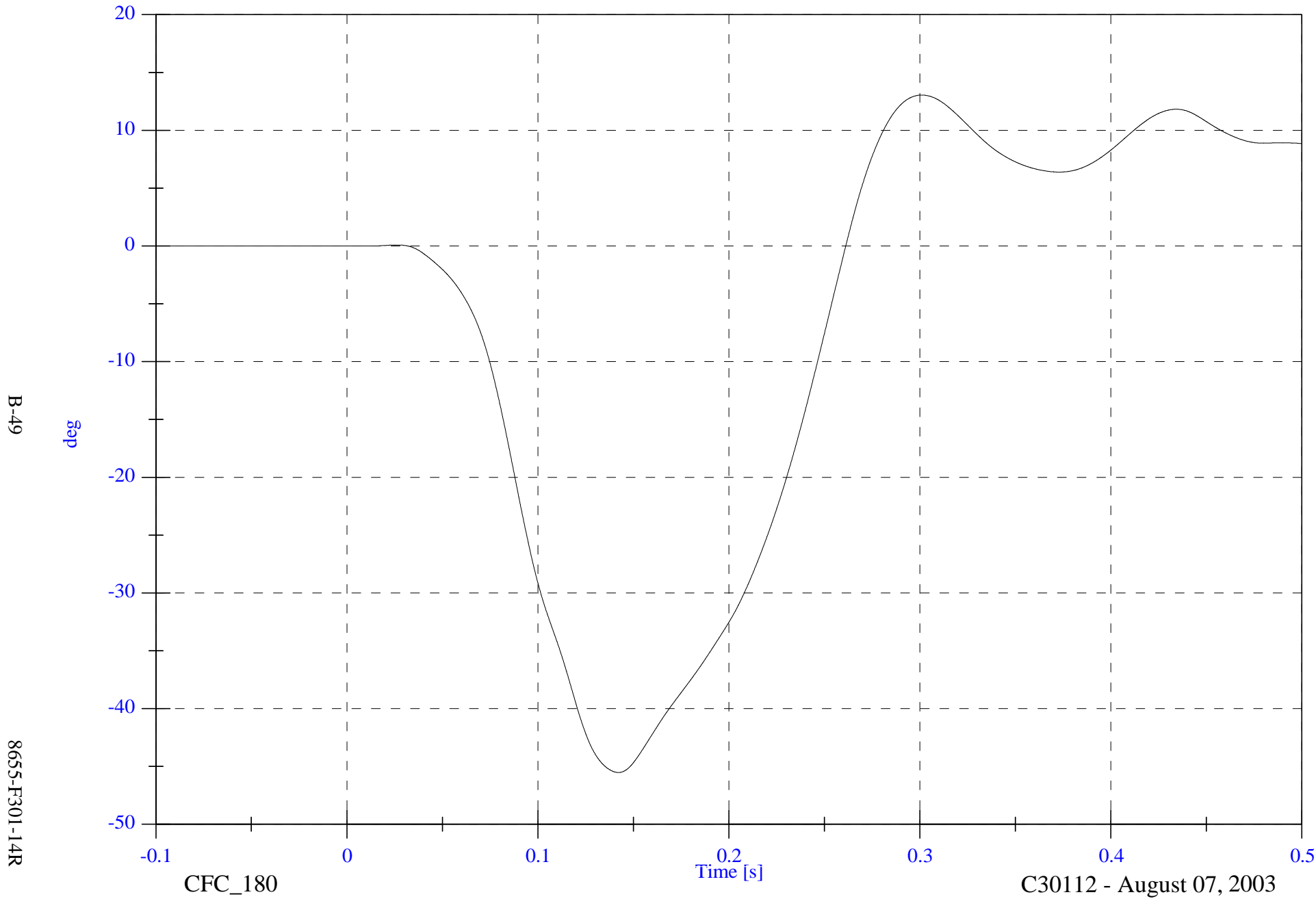
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Head to Chest Comp ADy

Max: 13.1 [deg] at 0.301 [s]

Min: -45.5 [deg] at 0.142 [s]



B-49

8655-F301-14R

CFC_180

Time [s]

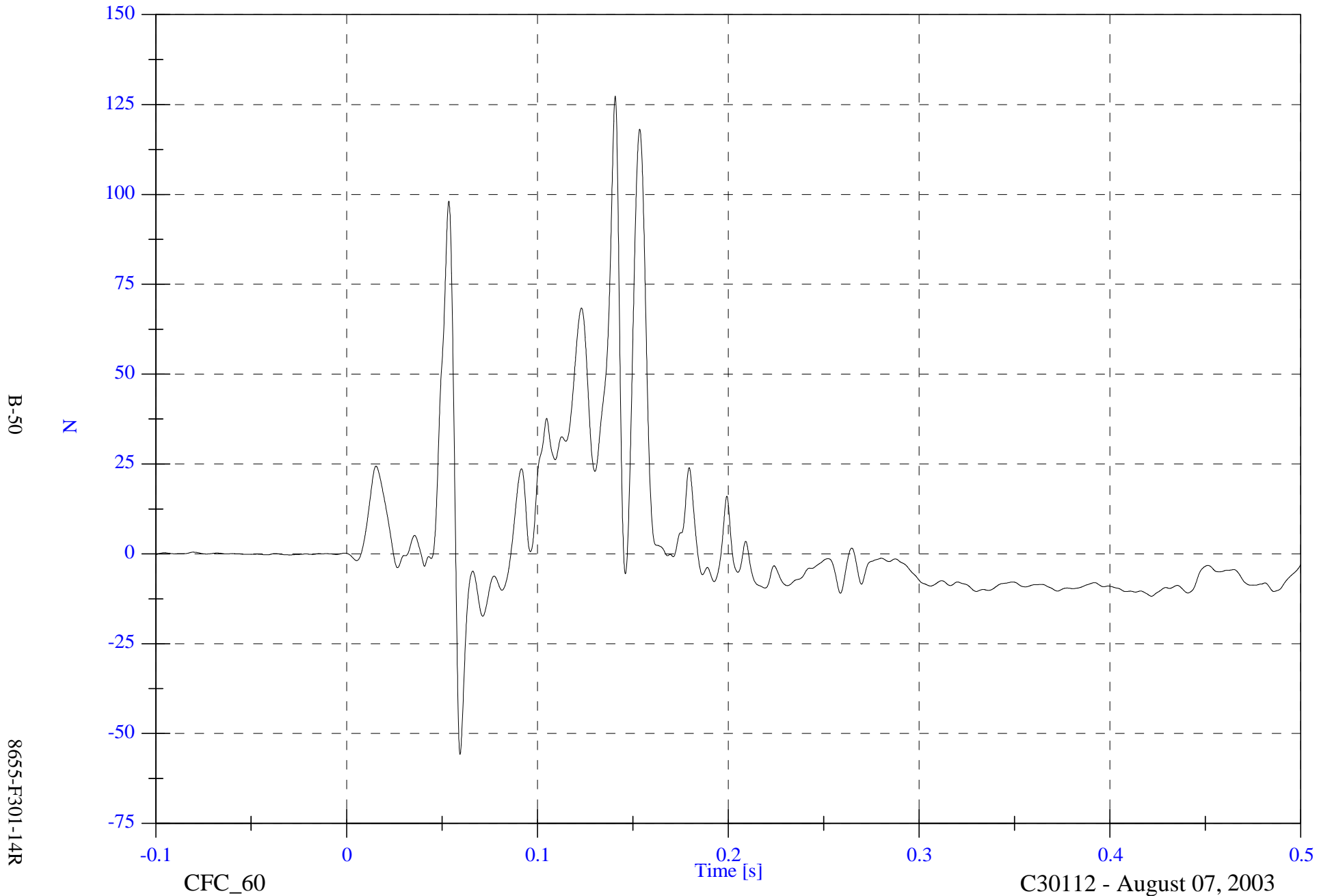
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Lap Belt F

Max: 127.4 [N] at 0.141 [s]

Min: -55.8 [N] at 0.059 [s]



B-50

N

8655-F301-14R

CFC_60

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

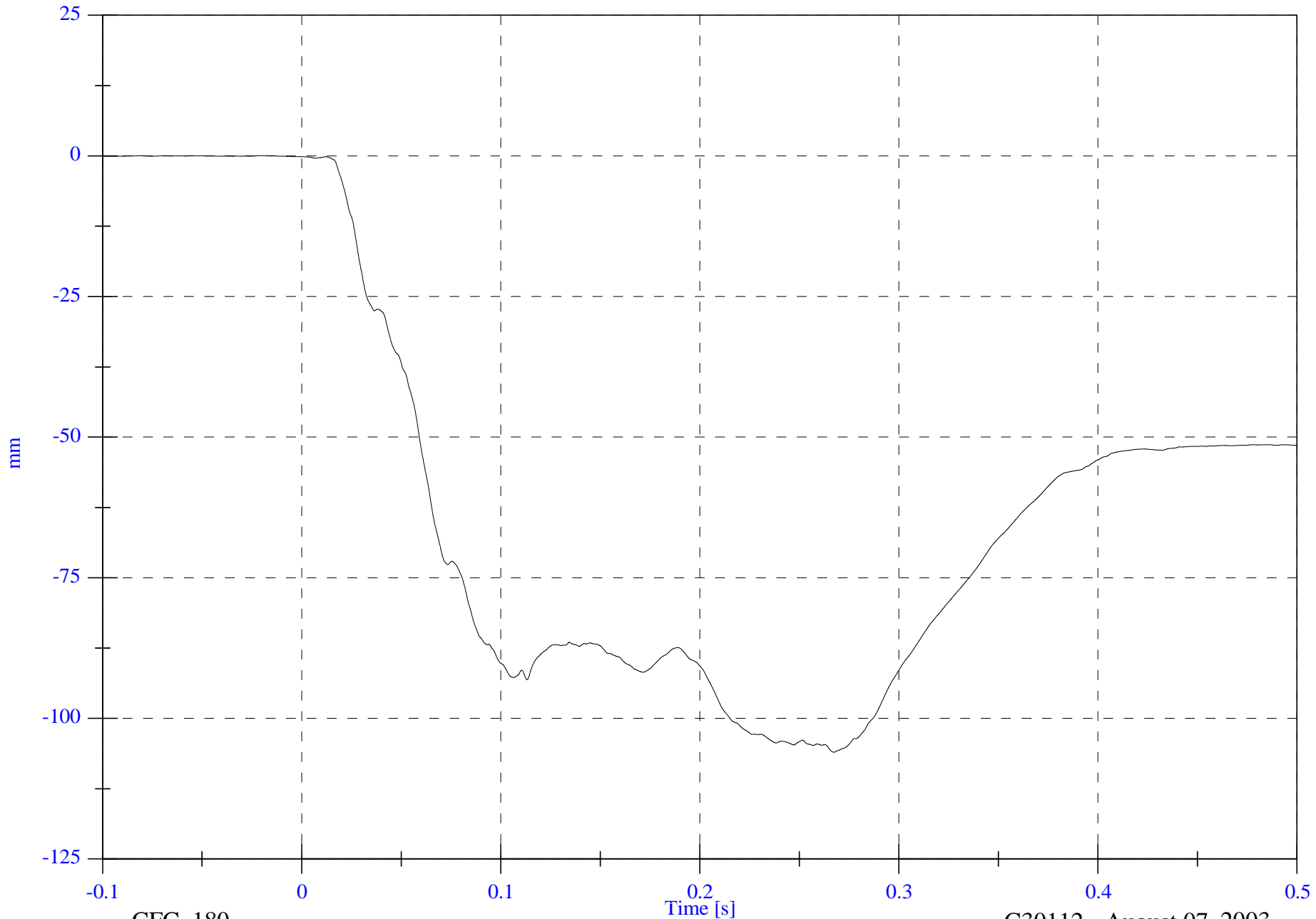
V2P1 Belt Spoolout

Max: 0.0 [mm] at -0.020 [s]

Min: -106.0 [mm] at 0.267 [s]

B-51

8655-F301-14R



CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

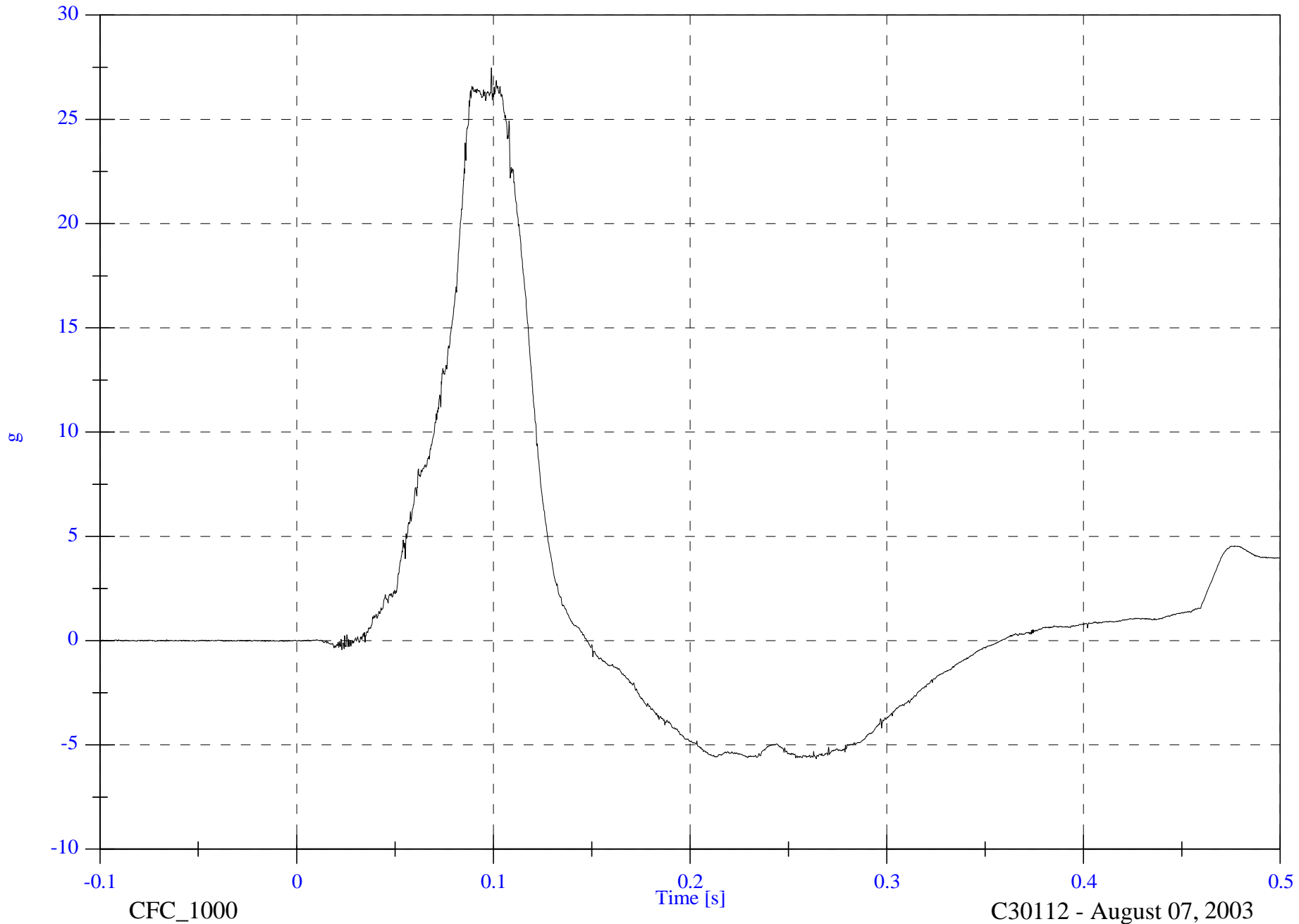
V2P2 Head Ax

Max: 27.5 [g] at 0.099 [s]

Min: -5.7 [g] at 0.264 [s]

B-52

8655-F301-14R



CFC_1000

C30112 - August 07, 2003

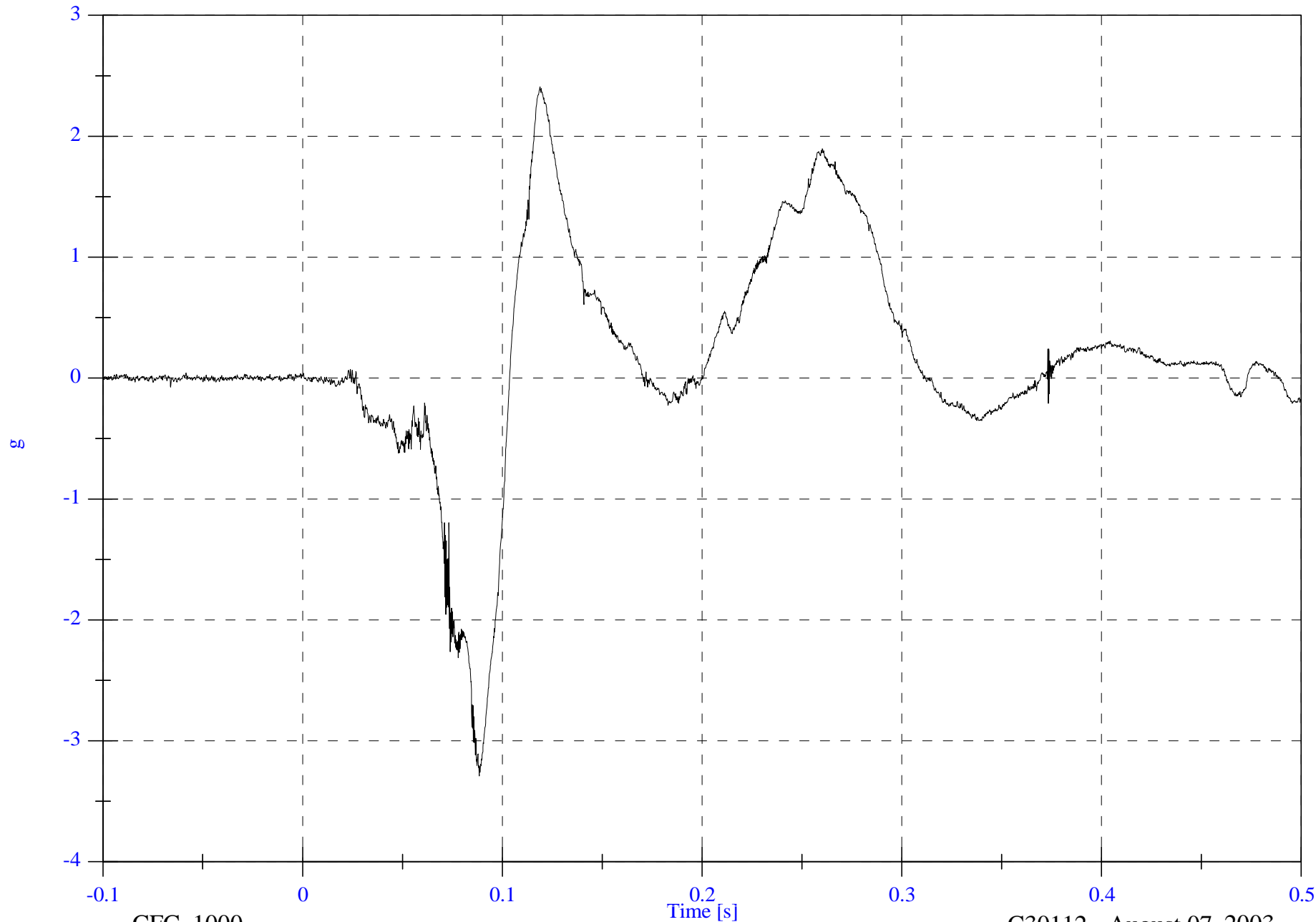
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Head Ay

Max: 2.4 [g] at 0.119 [s]
Min: -3.3 [g] at 0.088 [s]

B-53

8655-F301-14R



CFC_1000

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

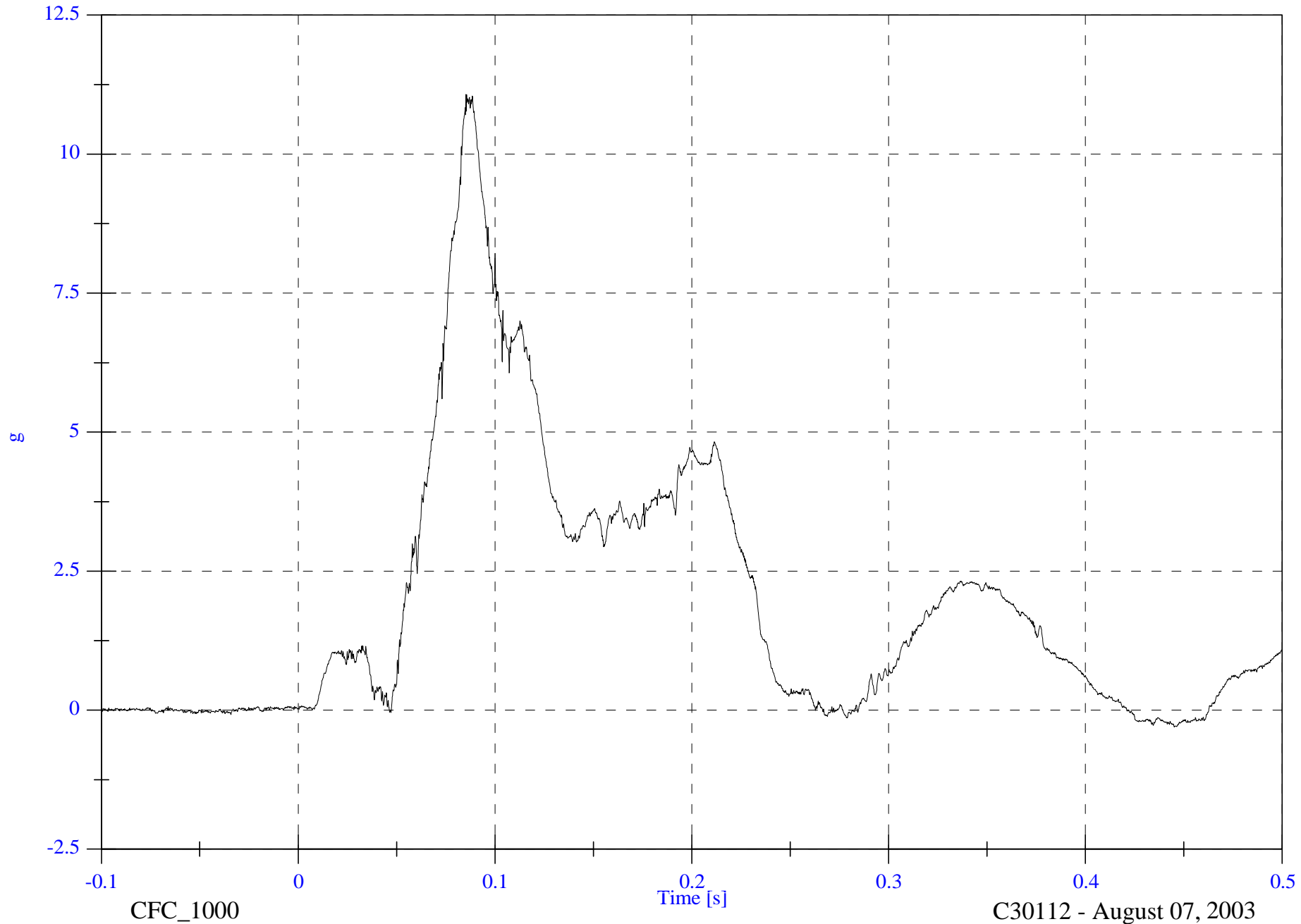
V2P2 Head Az

Max: 11.1 [g] at 0.085 [s]

Min: -0.3 [g] at 0.445 [s]

B-54

8655-F301-14R



FMVSS 301 Test 5 - 2003 Saturn Ion

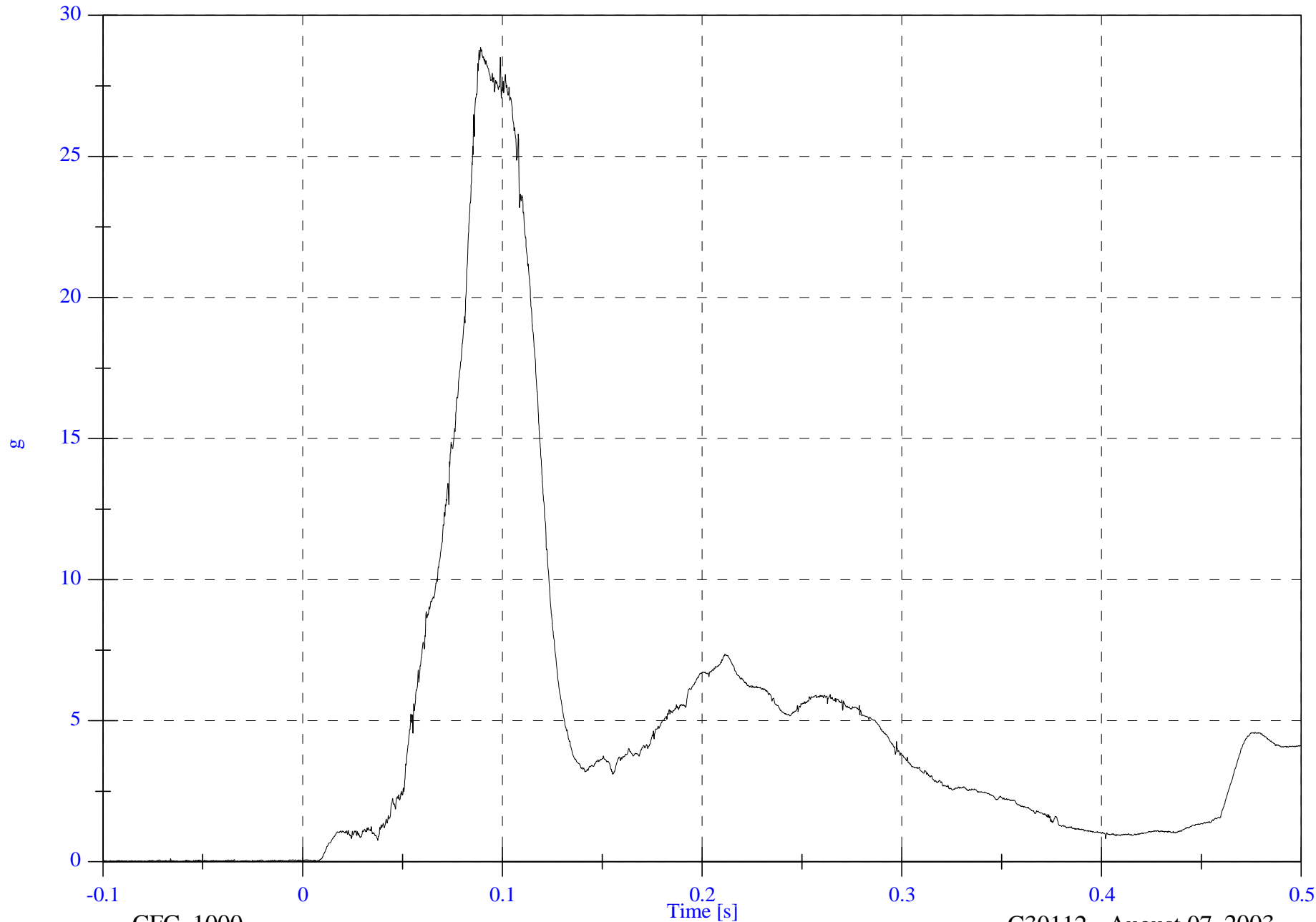
V2P2 Head A Resultant

Max: 28.9 [g] at 0.089 [s]

Min: 0.0 [g] at -0.033 [s]

B-55

8655-F301-14R



CFC_1000

C30112 - August 07, 2003

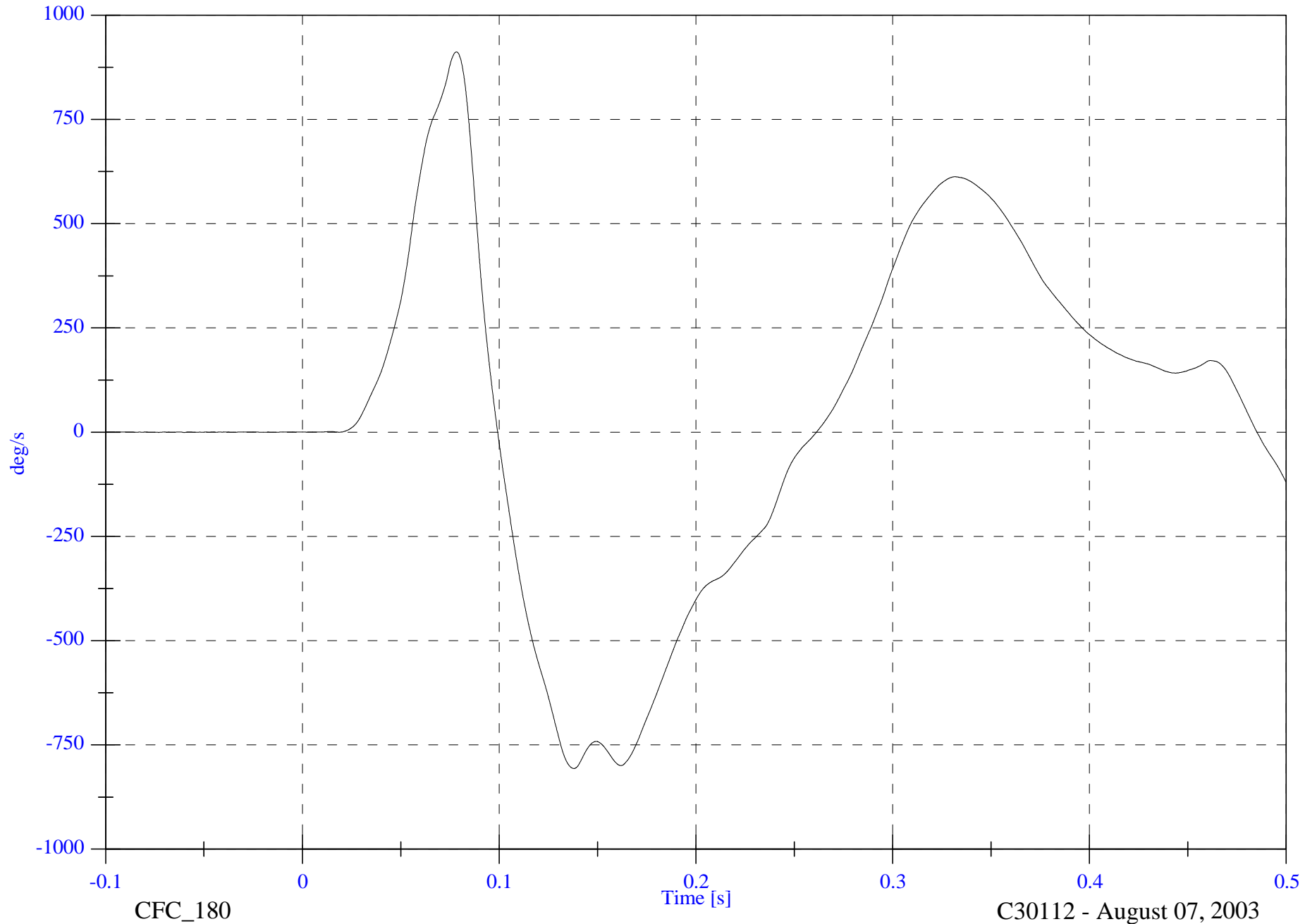
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Head AVy

Max: 912.0 [deg/s] at 0.078 [s]
Min: -806.6 [deg/s] at 0.138 [s]

B-56

8655-F301-14R



CFC_180

Time [s]

C30112 - August 07, 2003

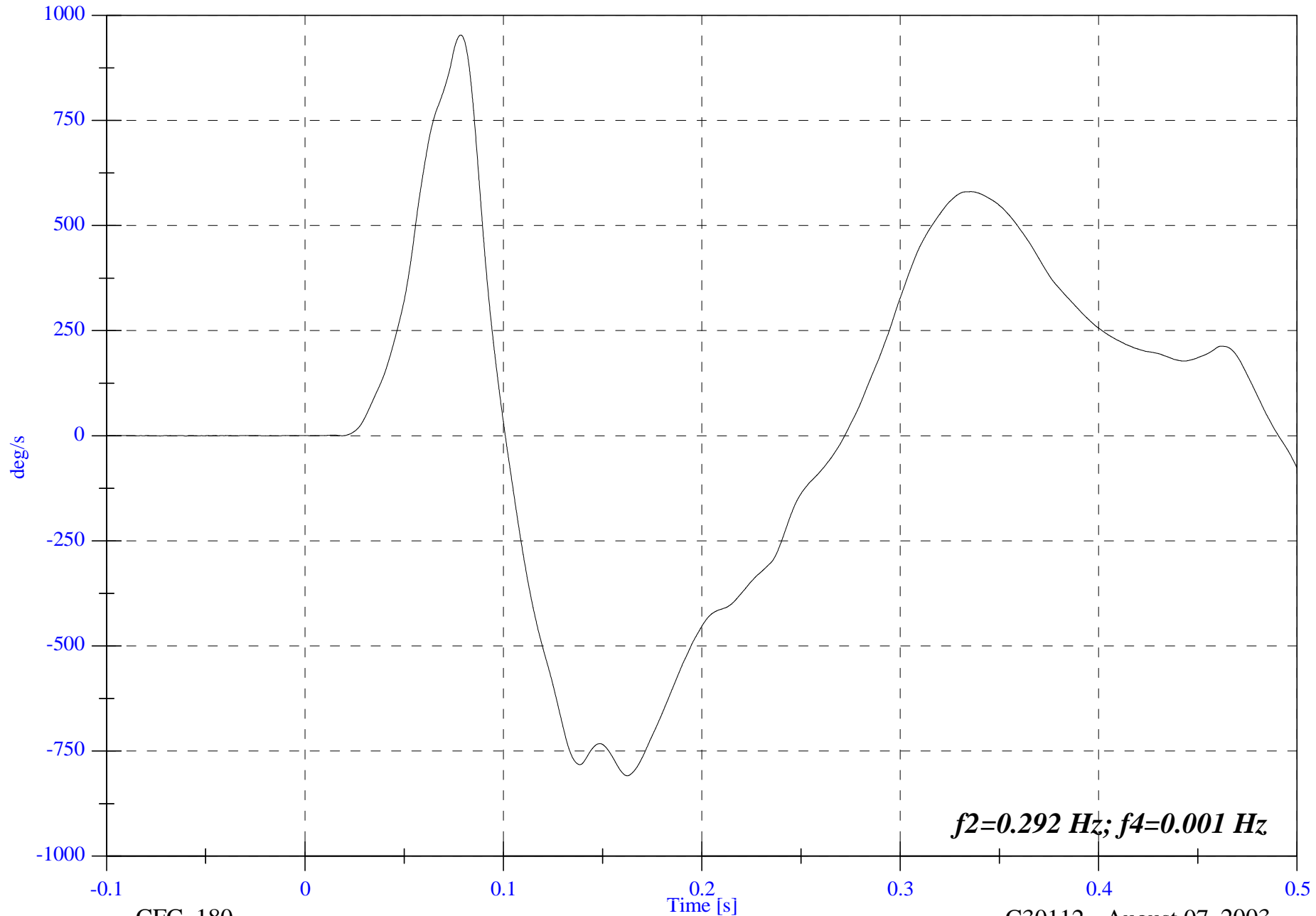
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Head Comp AVy

Max: 953.1 [deg/s] at 0.078 [s]
Min: -808.9 [deg/s] at 0.162 [s]

B-57

8655-F301-14R



f2=0.292 Hz; f4=0.001 Hz

CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

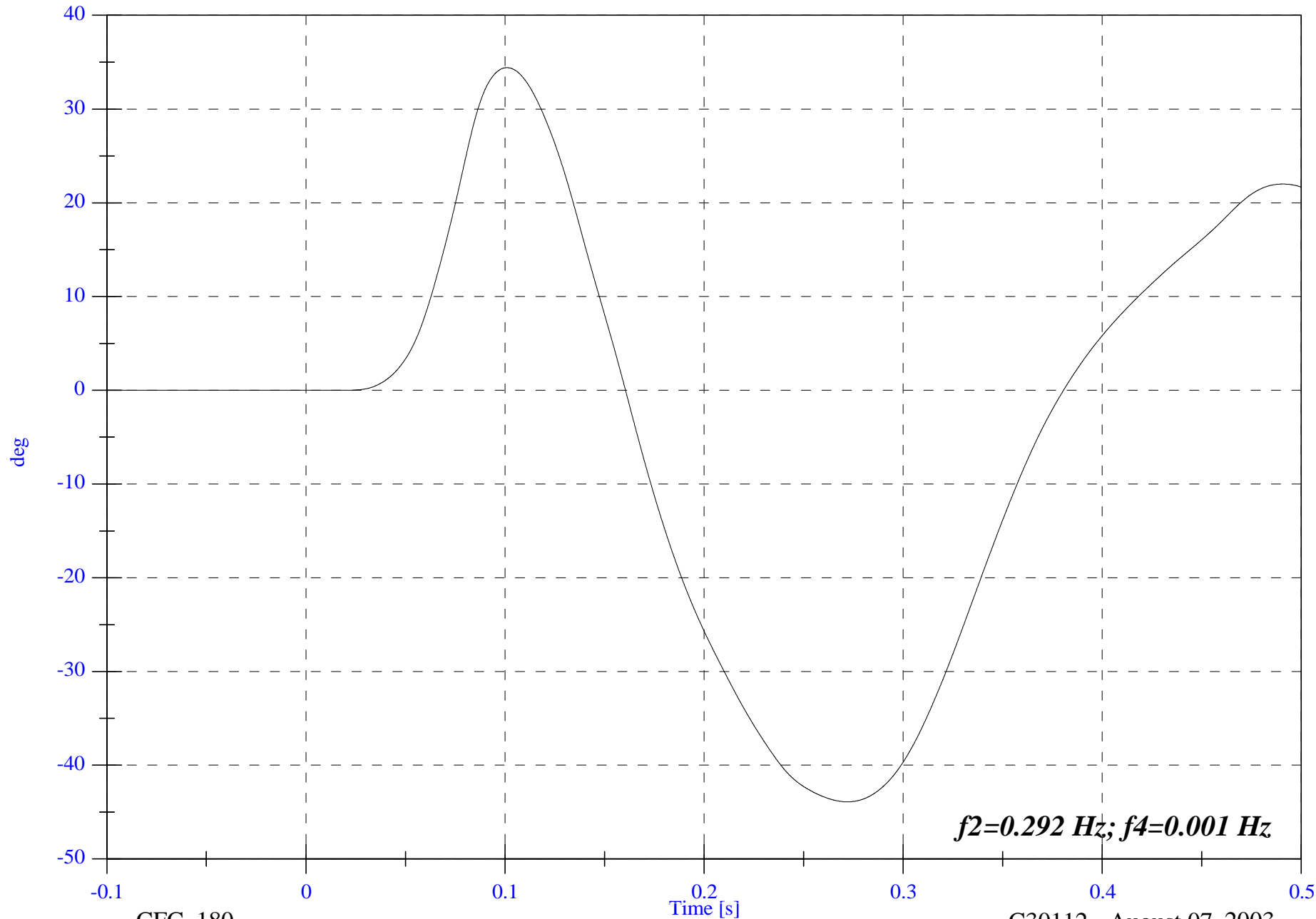
V2P2 Head Comp ADy

Max: 34.4 [deg] at 0.101 [s]

Min: -43.9 [deg] at 0.272 [s]

B-58

8655-F301-14R



CFC_180

Time [s]

C30112 - August 07, 2003

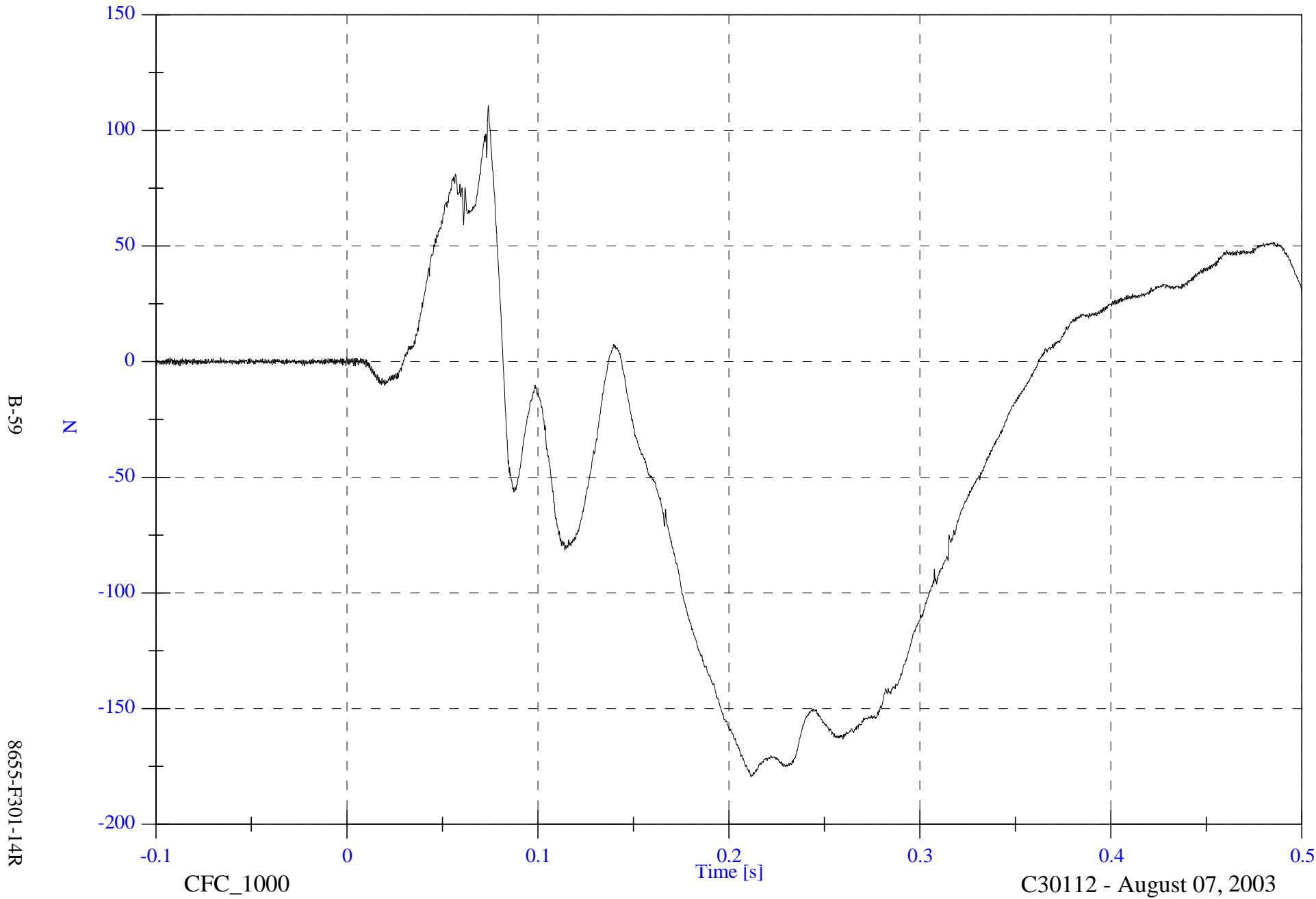
$f_2=0.292$ Hz; $f_4=0.001$ Hz

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Upper Neck Fx

Max: 110.8 [N] at 0.074 [s]

Min: -179.3 [N] at 0.211 [s]



B-59

N

8655-F301-14R

CFC_1000

Time [s]

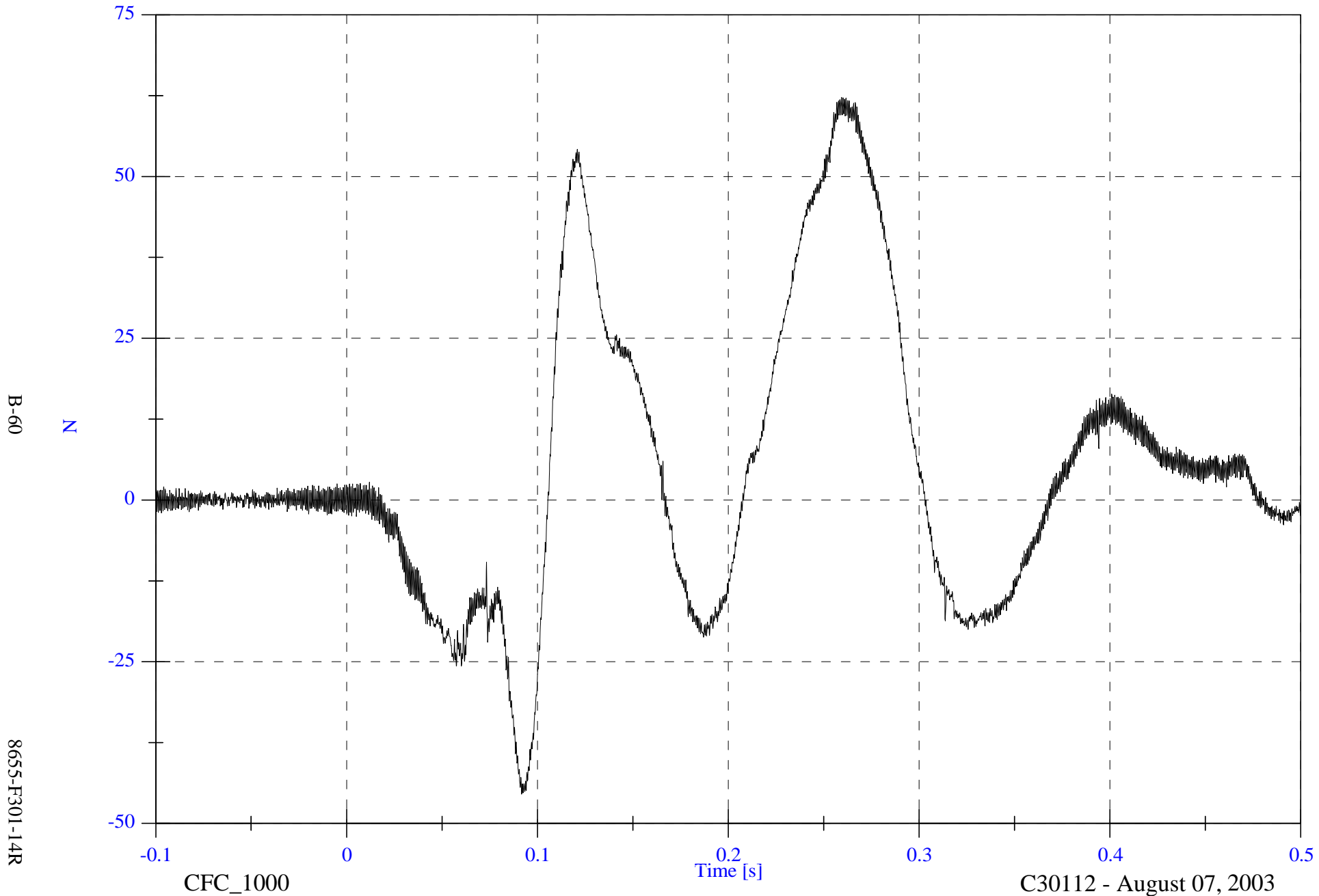
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Upper Neck Fy

Max: 62.2 [N] at 0.259 [s]

Min: -45.5 [N] at 0.092 [s]



B-60

N

8655-F301-14R

CFC_1000

Time [s]

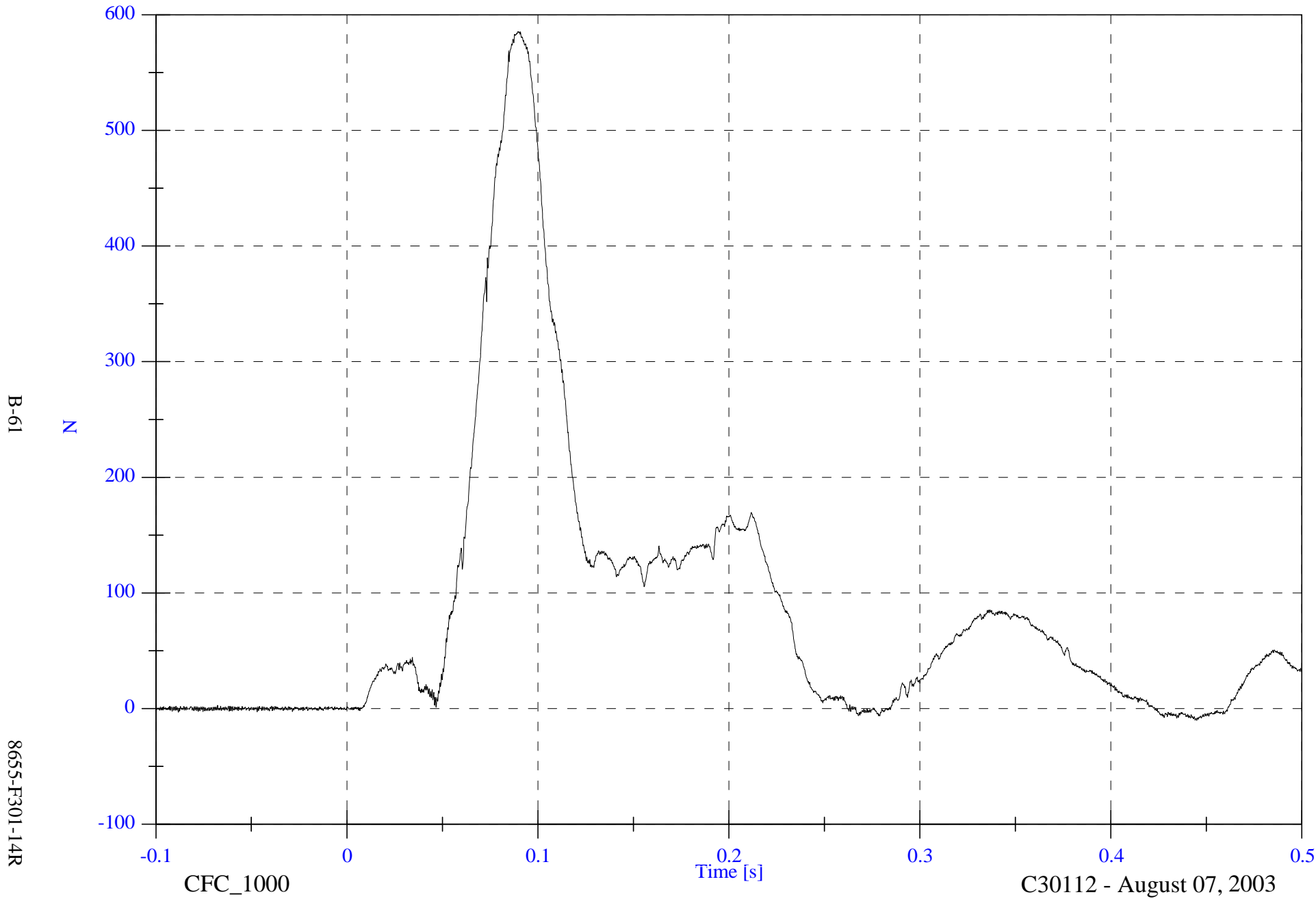
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Upper Neck Fz

Max: 585.4 [N] at 0.090 [s]

Min: -10.1 [N] at 0.445 [s]



B-61

8655-F301-14R

CFC_1000

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

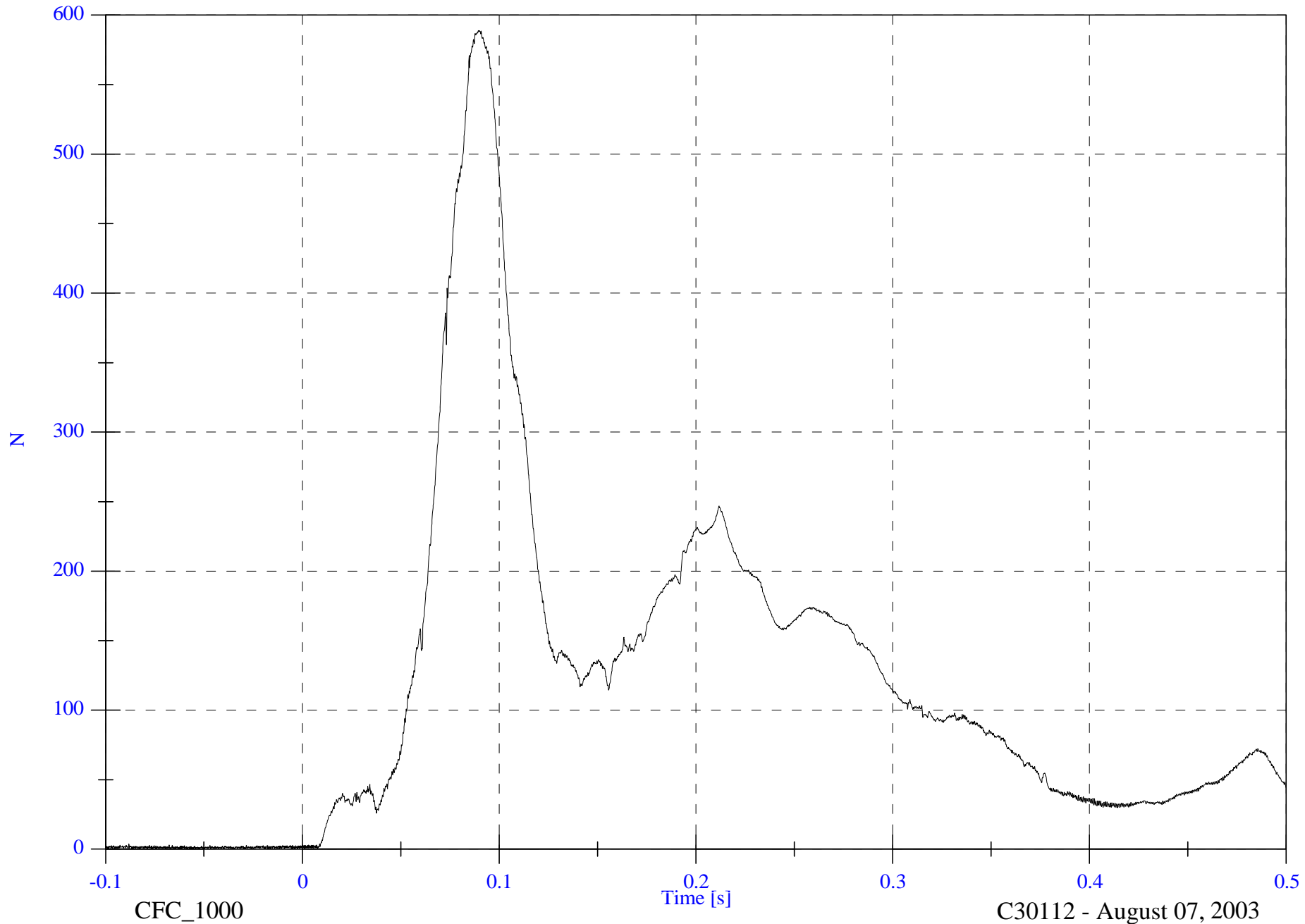
V2P2 Upper Neck F Resultant

Max: 589.0 [N] at 0.089 [s]

Min: 0.1 [N] at -0.013 [s]

B-62

8655-F301-14R



CFC_1000

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

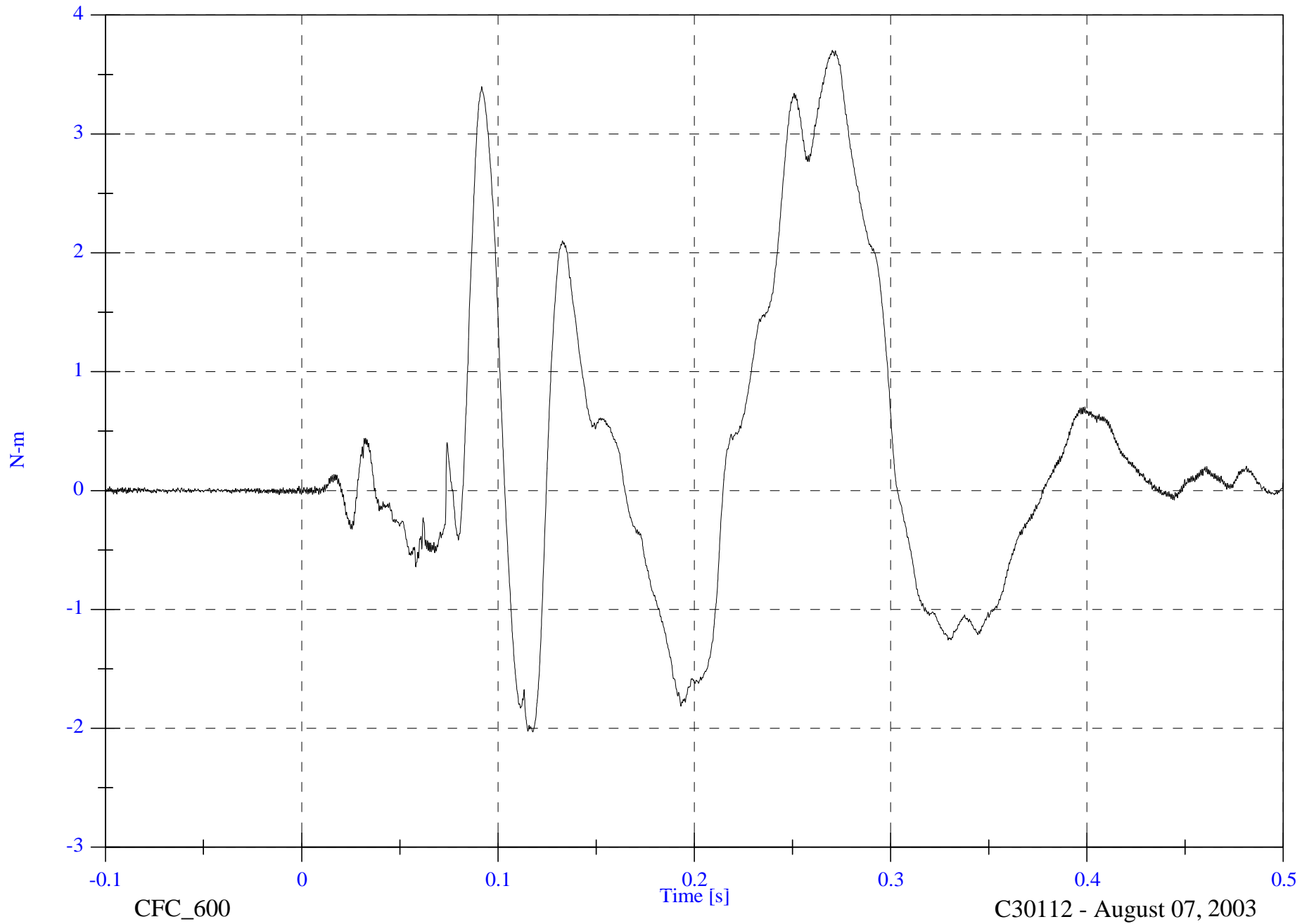
V2P2 Upper Neck Mx

Max: 3.7 [N-m] at 0.270 [s]

Min: -2.0 [N-m] at 0.118 [s]

B-63

8655-F301-14R



CFC_600

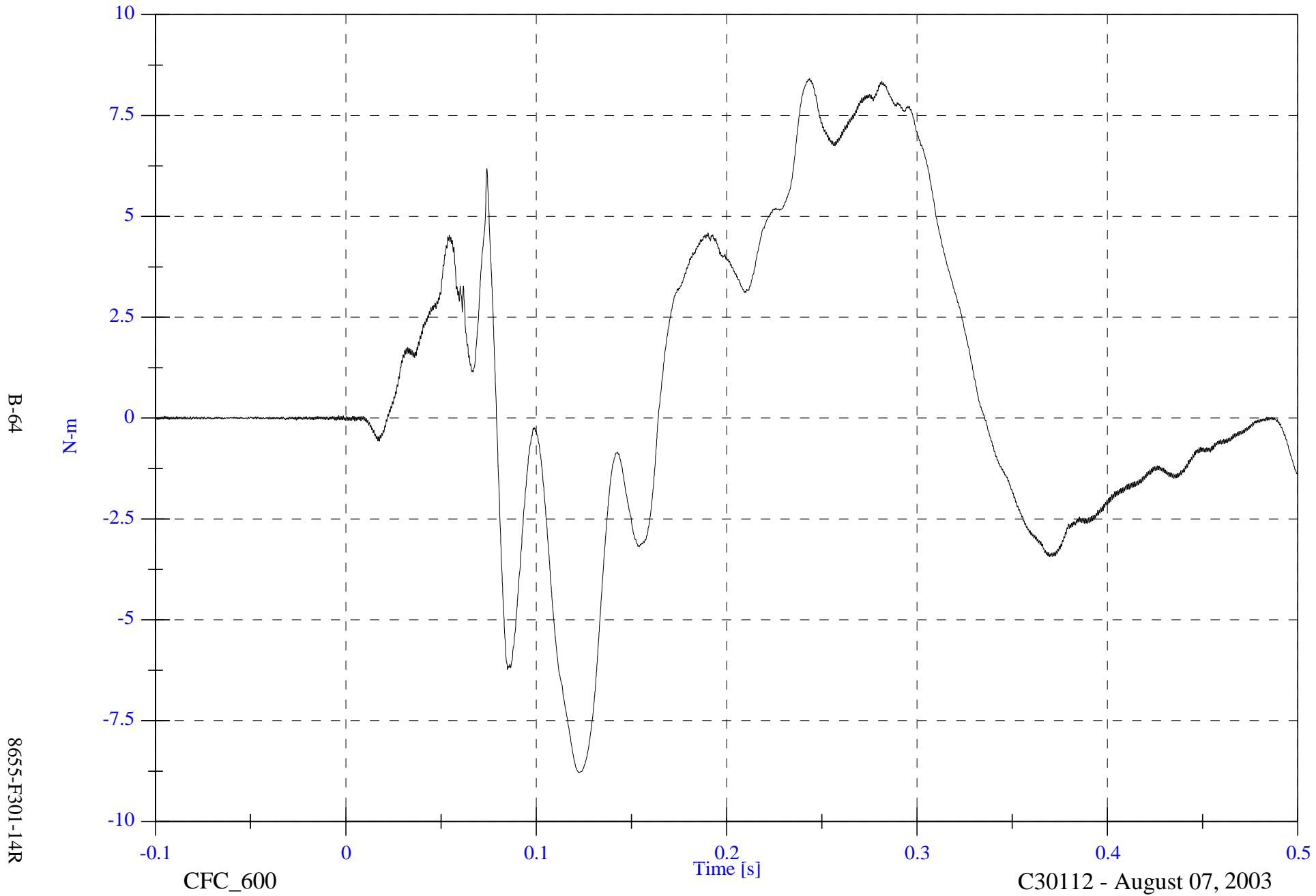
Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Upper Neck My

Max: 8.4 [N-m] at 0.244 [s]
Min: -8.8 [N-m] at 0.122 [s]



B-64

8655-F301-14R

CFC_600

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

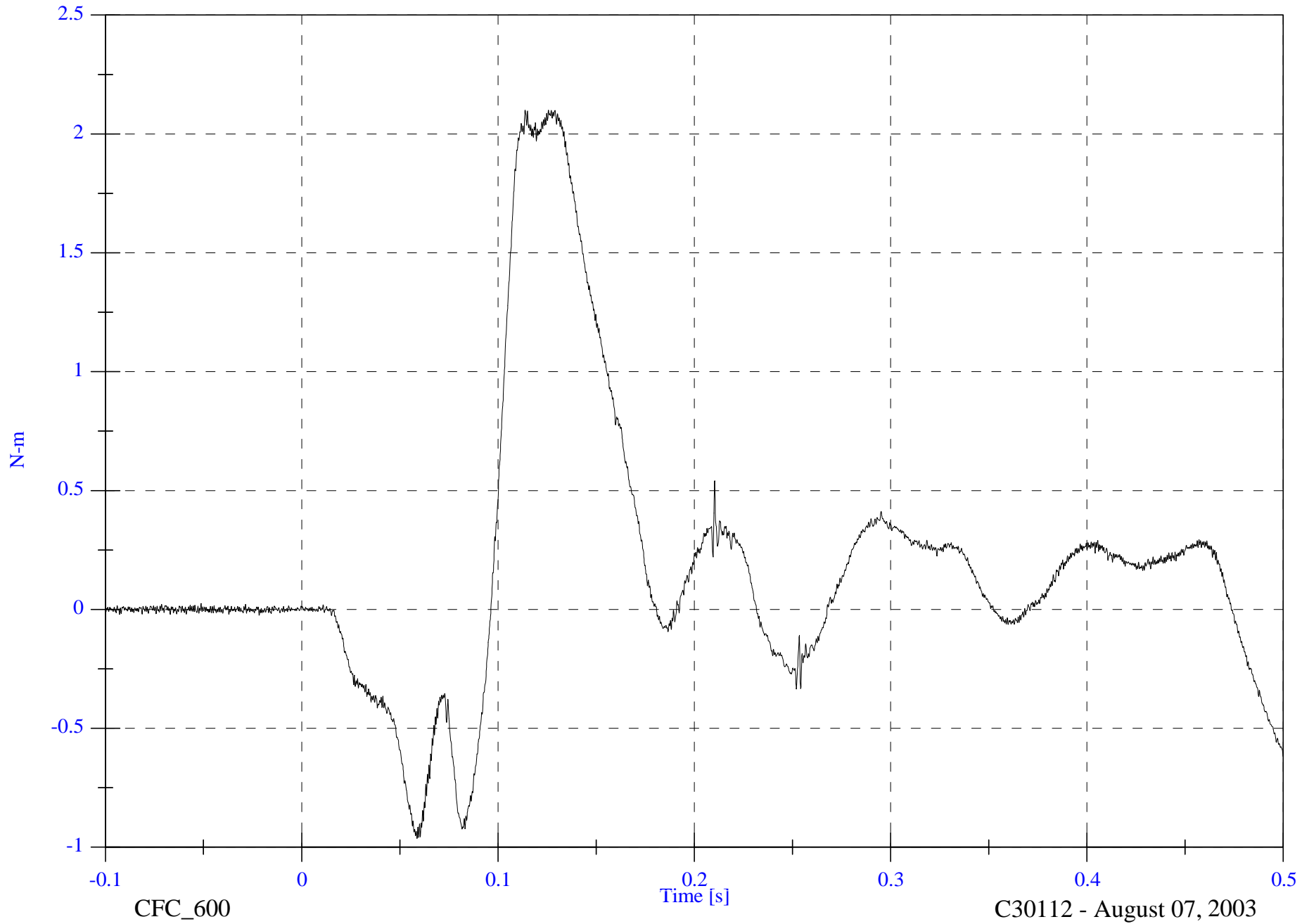
V2P2 Upper Neck Mz

Max: 2.1 [N-m] at 0.114 [s]

Min: -1.0 [N-m] at 0.059 [s]

B-65

8655-F301-14R



CFC_600

C30112 - August 07, 2003

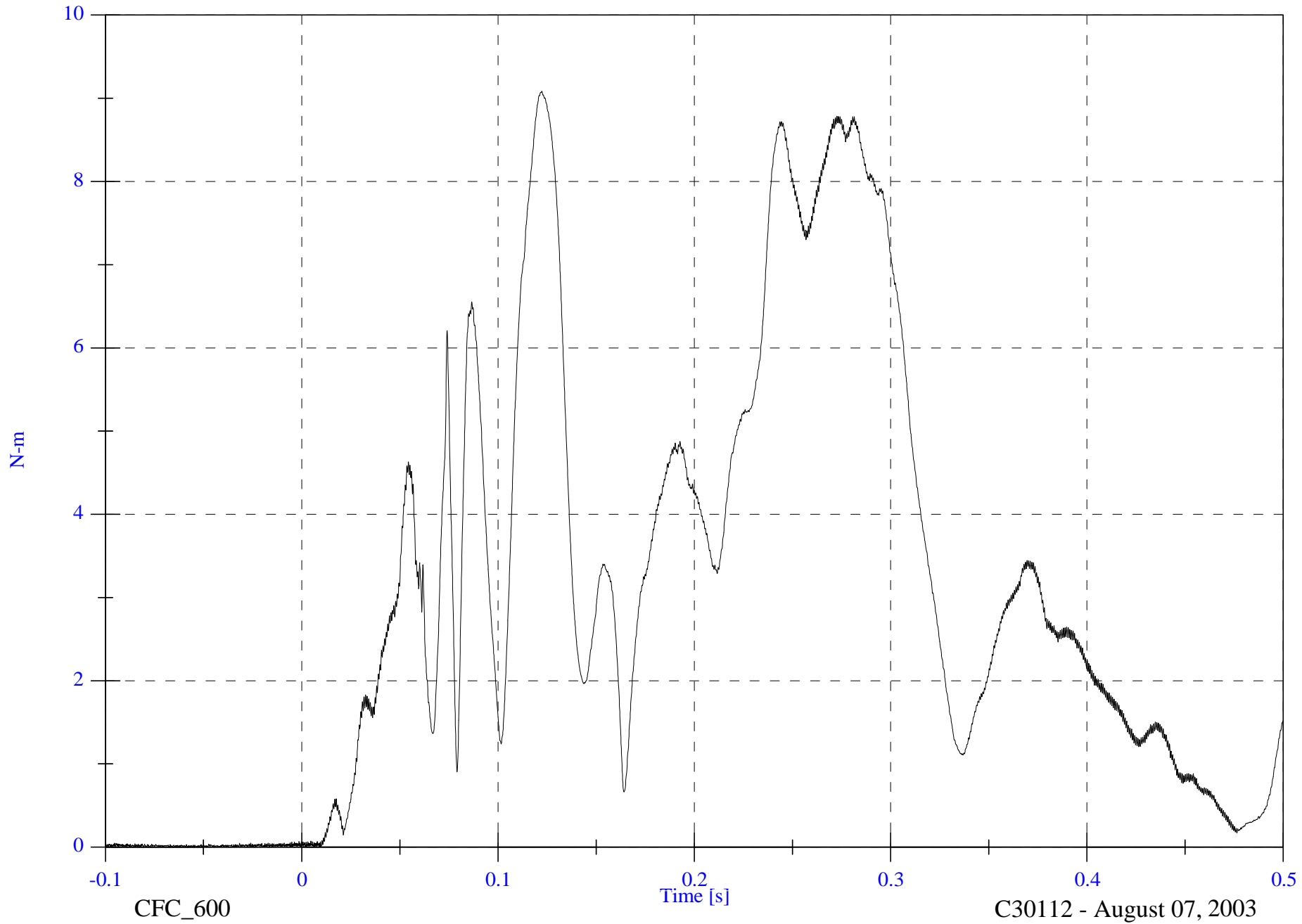
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Upper Neck M Resultant

Max: 9.1 [N-m] at 0.122 [s]
Min: 0.0 [N-m] at -0.051 [s]

B-66

8655-F301-14R



CFC_600

Time [s]

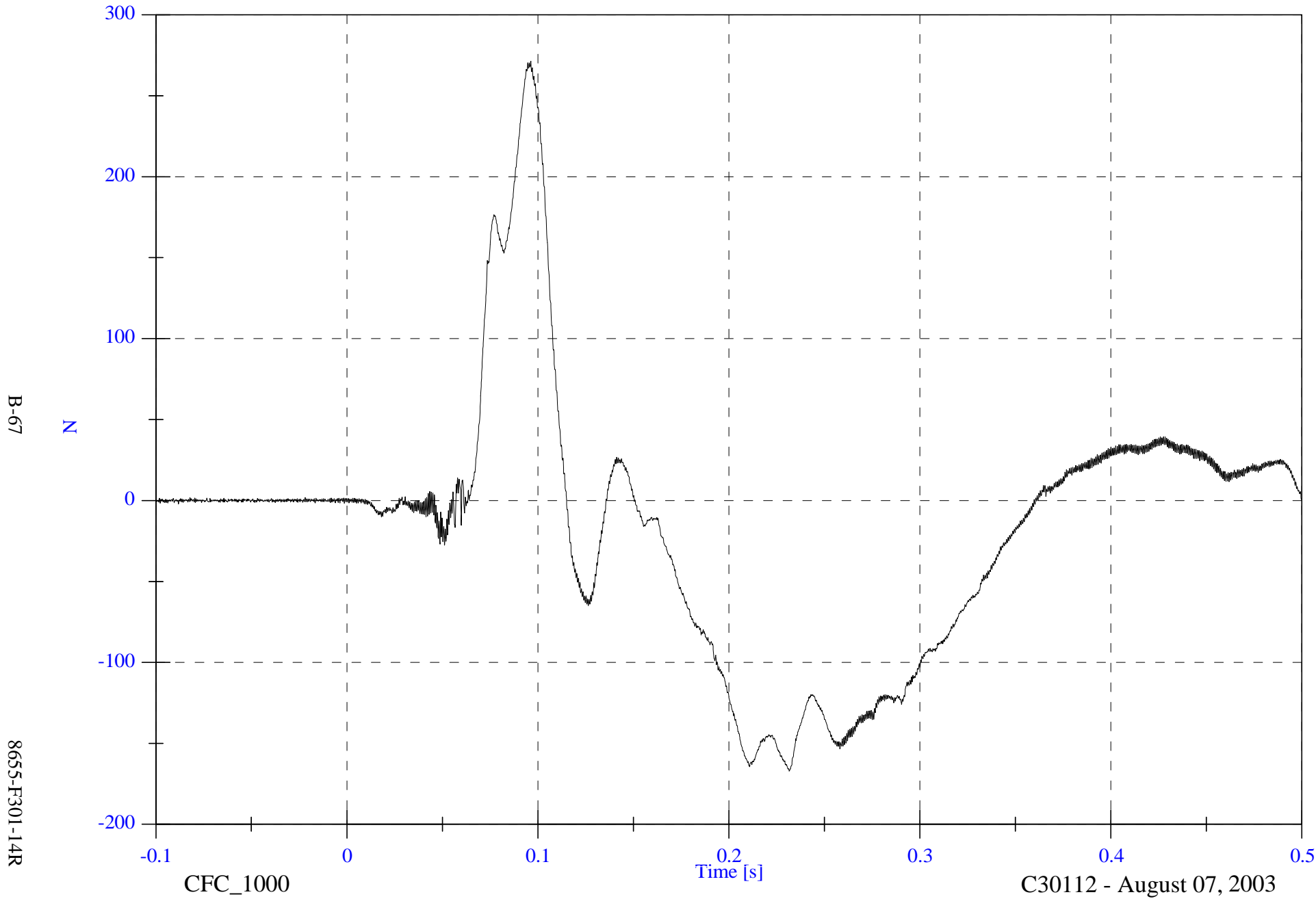
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Lower Neck Fx

Max: 271.4 [N] at 0.096 [s]

Min: -167.2 [N] at 0.232 [s]



B-67

N

8655-F301-14R

CFC_1000

Time [s]

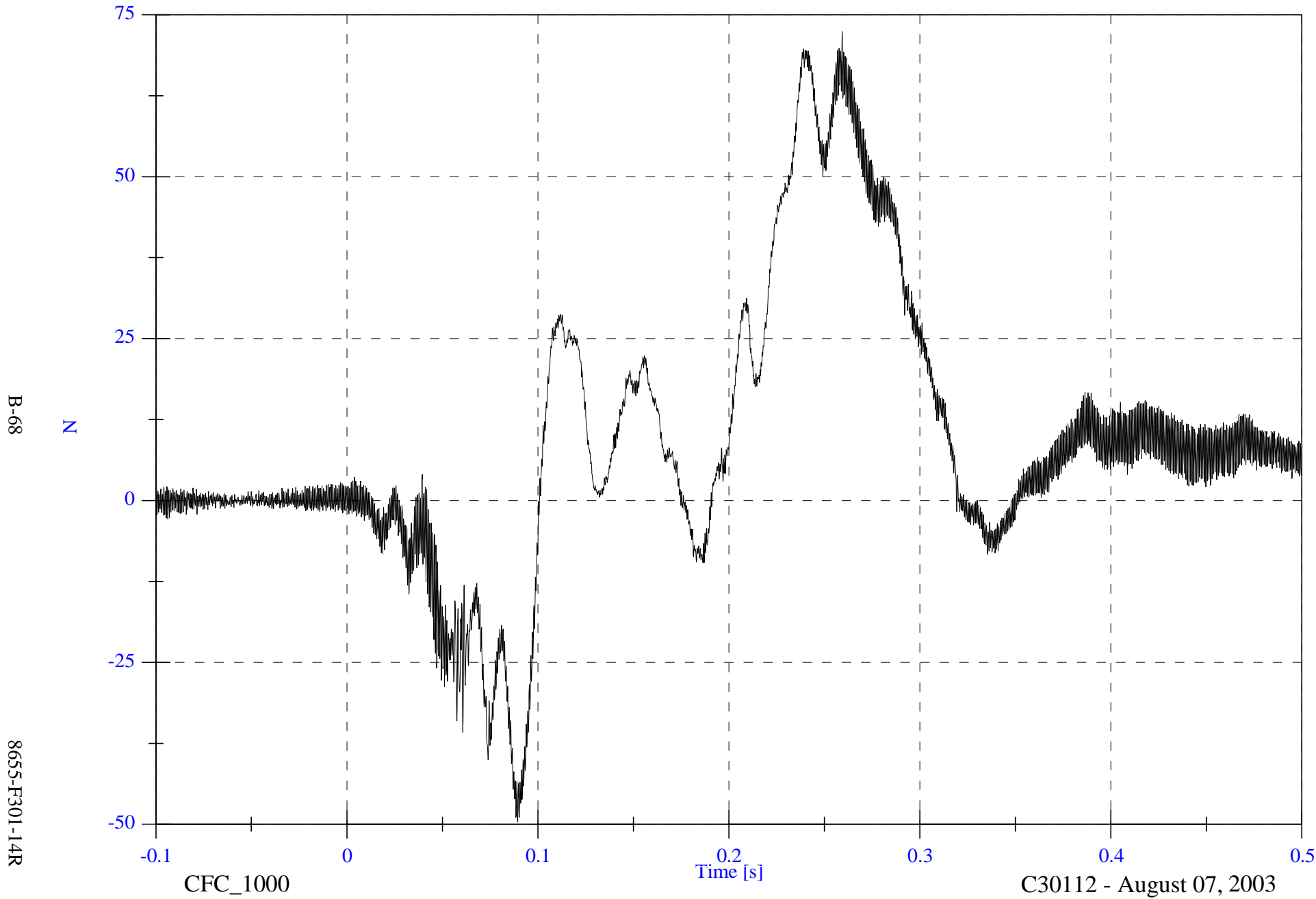
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Lower Neck Fy

Max: 72.4 [N] at 0.259 [s]

Min: -49.6 [N] at 0.089 [s]



B-68

N

8655-F301-14R

CFC_1000

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Lower Neck Fz

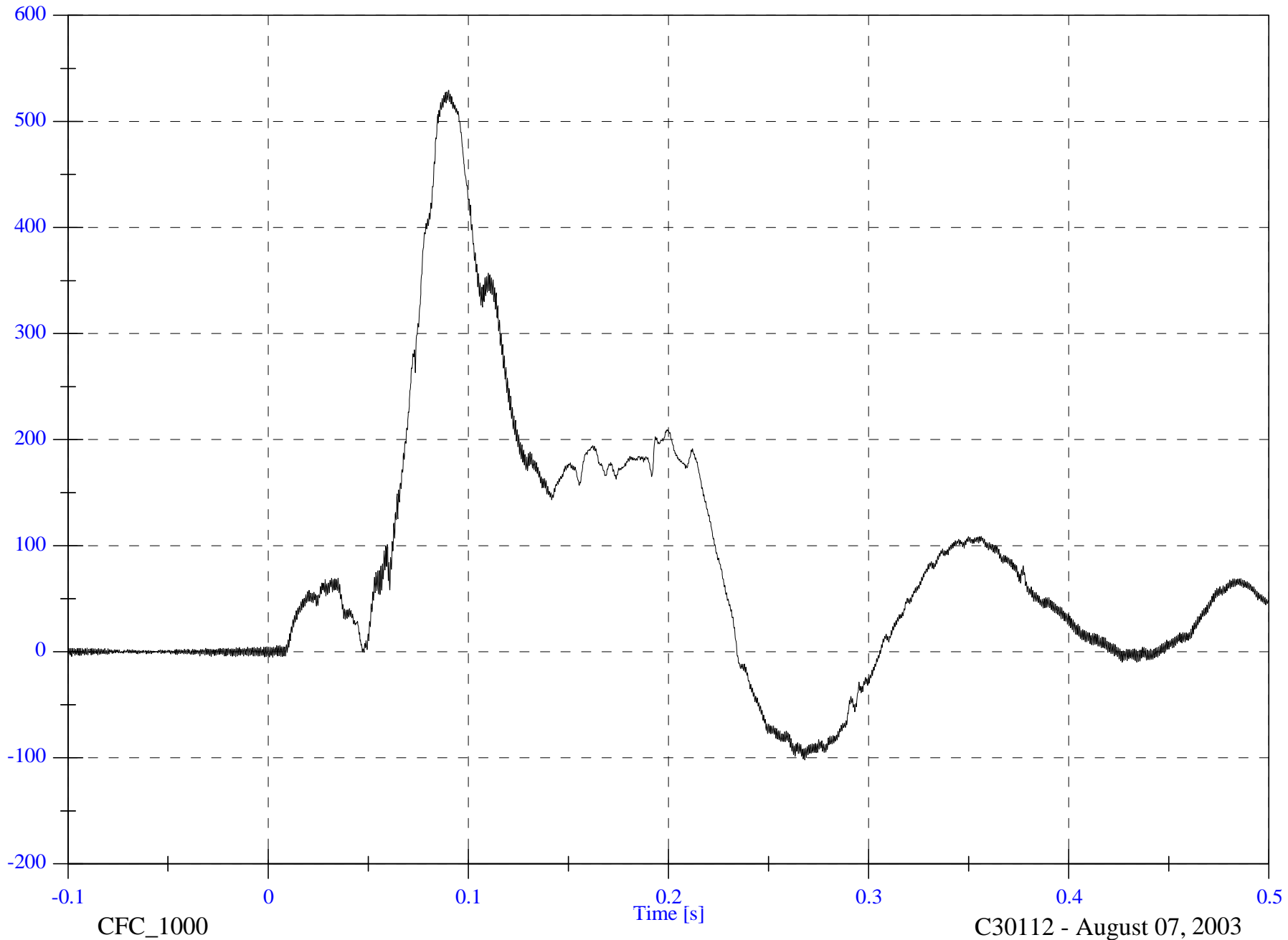
Max: 529.5 [N] at 0.090 [s]

Min: -102.1 [N] at 0.268 [s]

B-69

N

8655-F301-14R



CFC_1000

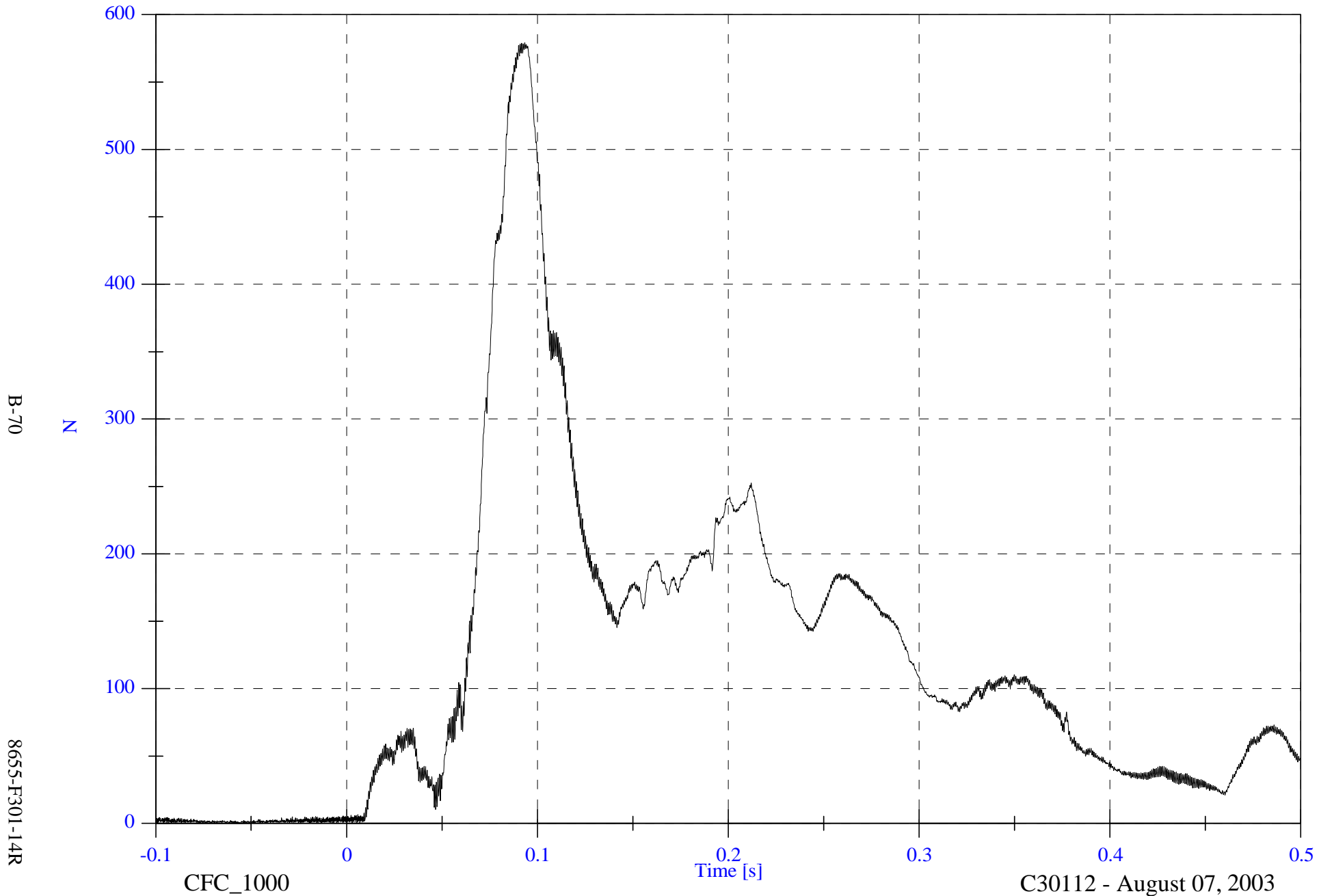
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Lower Neck F Resultant

Max: 579.1 [N] at 0.093 [s]

Min: 0.2 [N] at -0.054 [s]



B-70

8655-F301-14R

CFC_1000

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

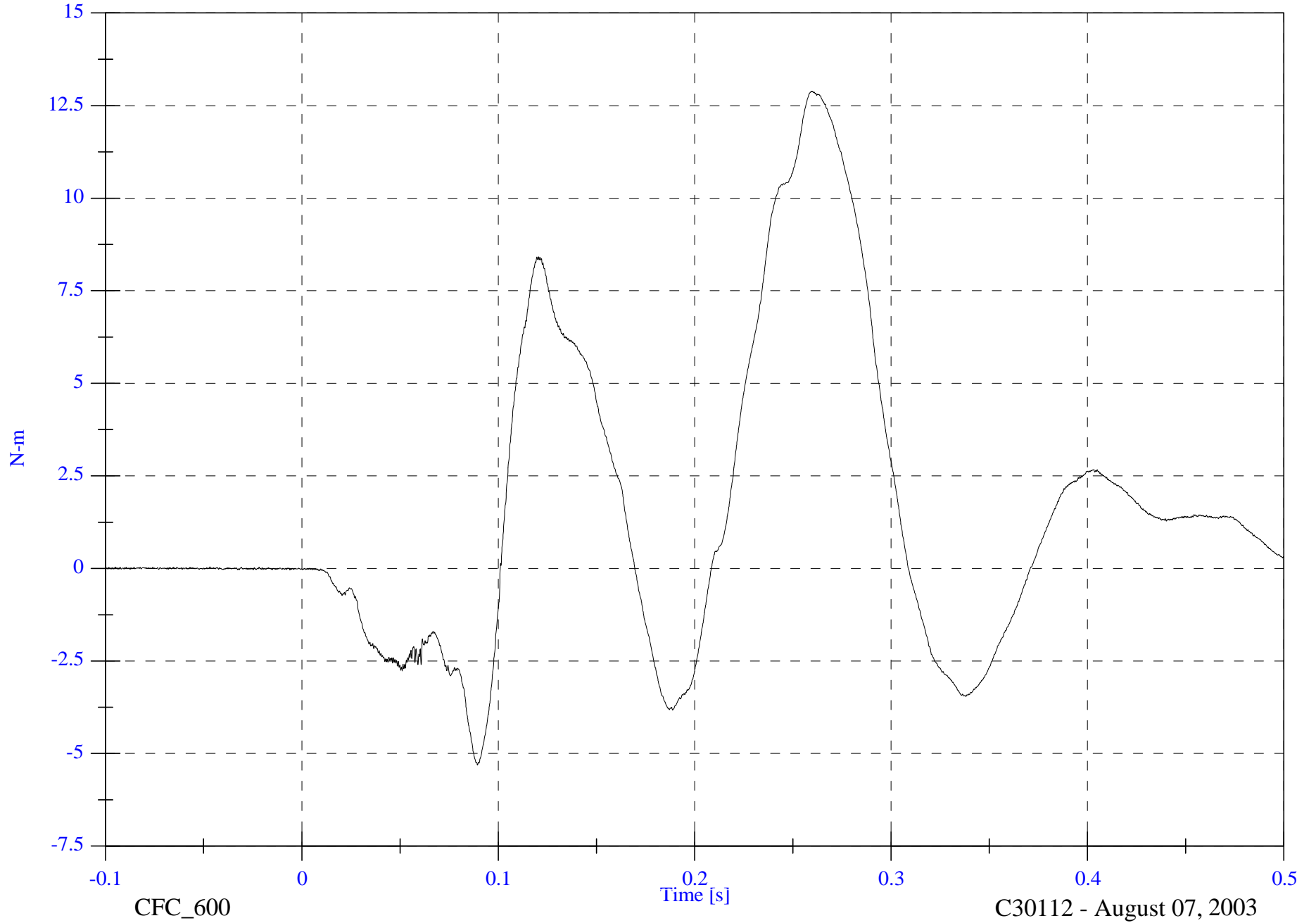
V2P2 Lower Neck Mx

Max: 12.9 [N-m] at 0.260 [s]

Min: -5.3 [N-m] at 0.089 [s]

B-71

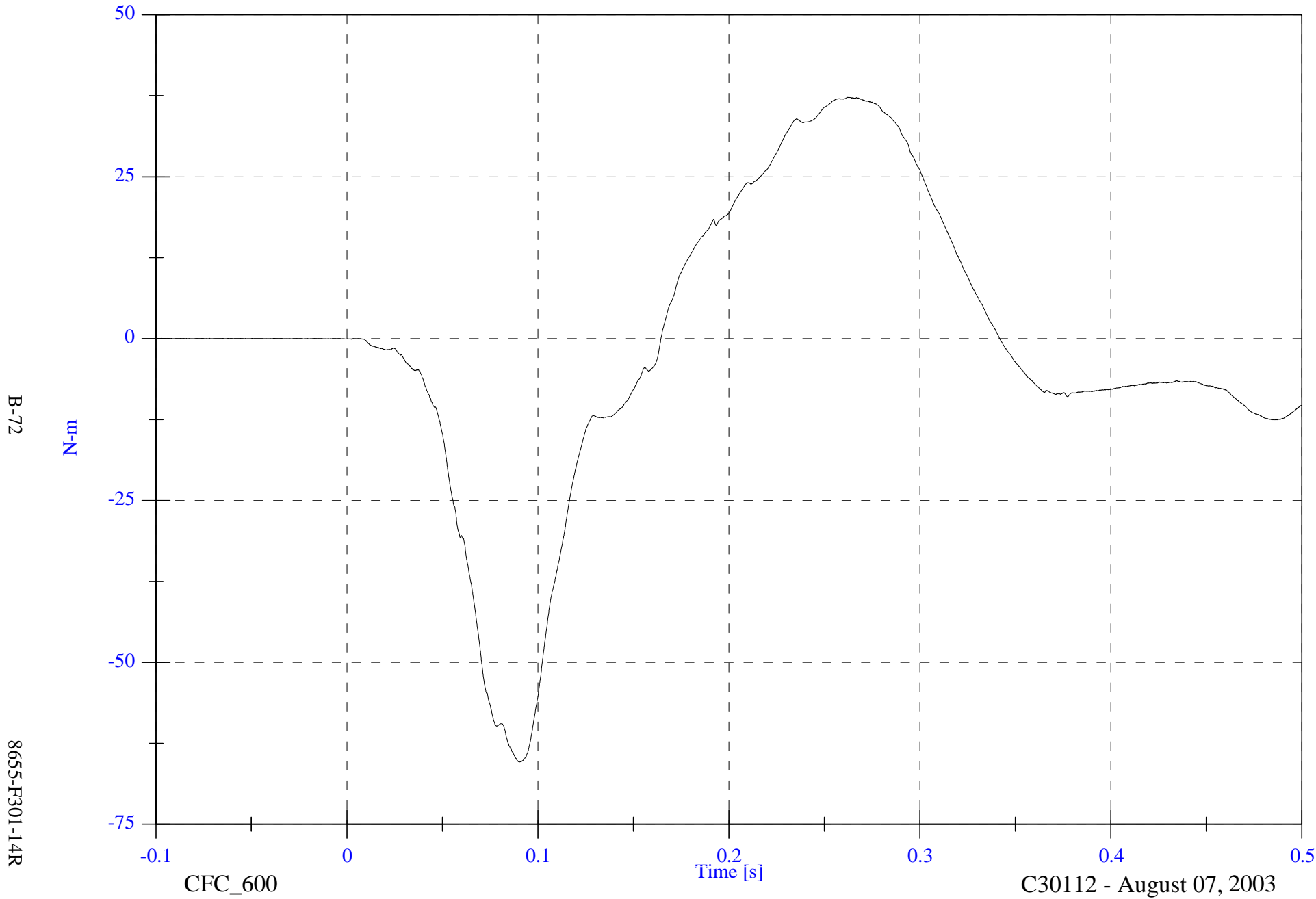
8655-F301-14R



FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Lower Neck My

Max: 37.3 [N-m] at 0.263 [s]
Min: -65.4 [N-m] at 0.091 [s]



B-72

8655-F301-14R

CFC_600

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Lower Neck Mz

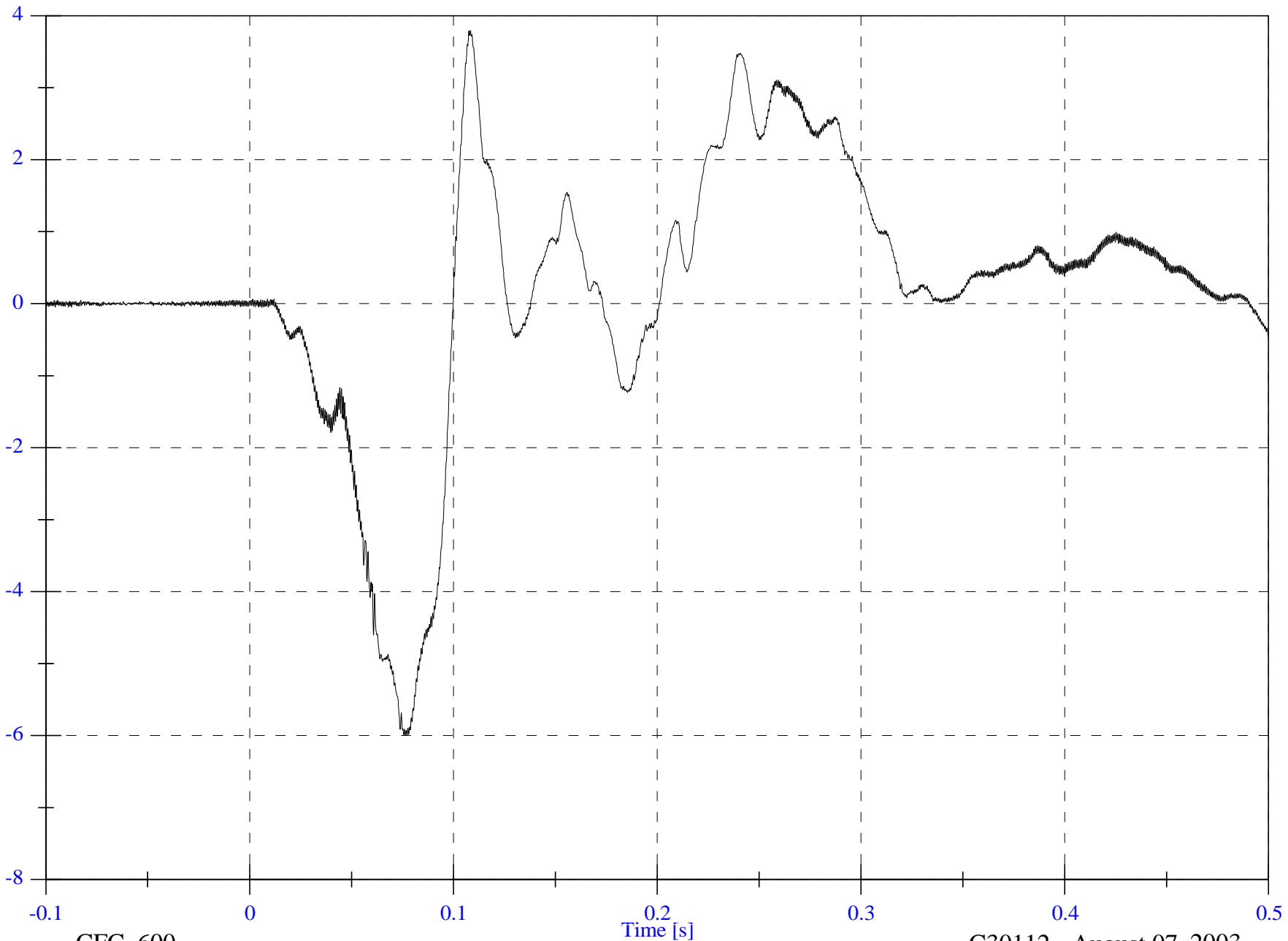
Max: 3.8 [N-m] at 0.108 [s]

Min: -6.0 [N-m] at 0.076 [s]

B-73

8655-F301-14R

N-m



CFC_600

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

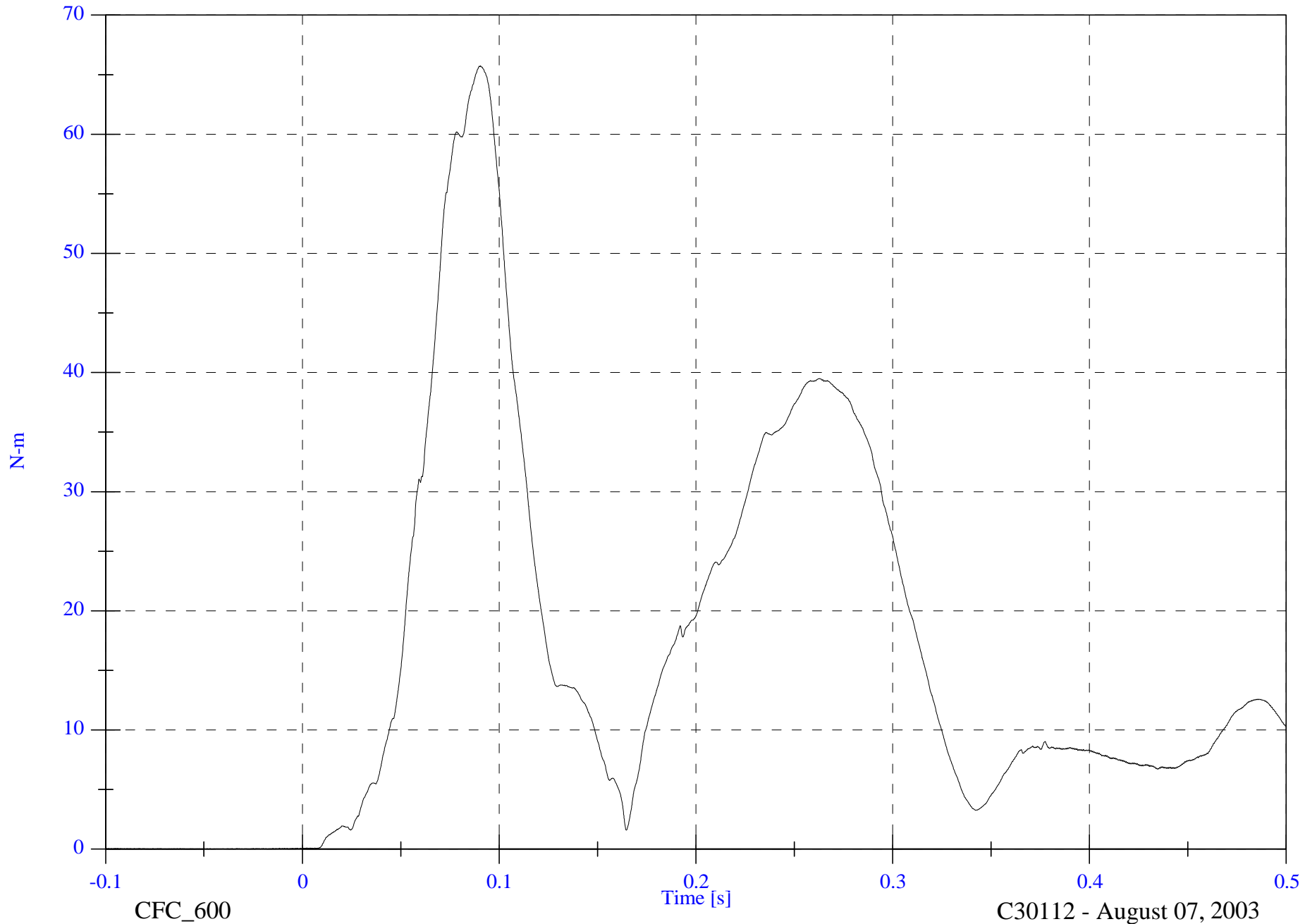
V2P2 Lower Neck M Resultant

Max: 65.7 [N-m] at 0.090 [s]

Min: 0.0 [N-m] at -0.045 [s]

B-74

8655-F301-14R



CFC_600

C30112 - August 07, 2003

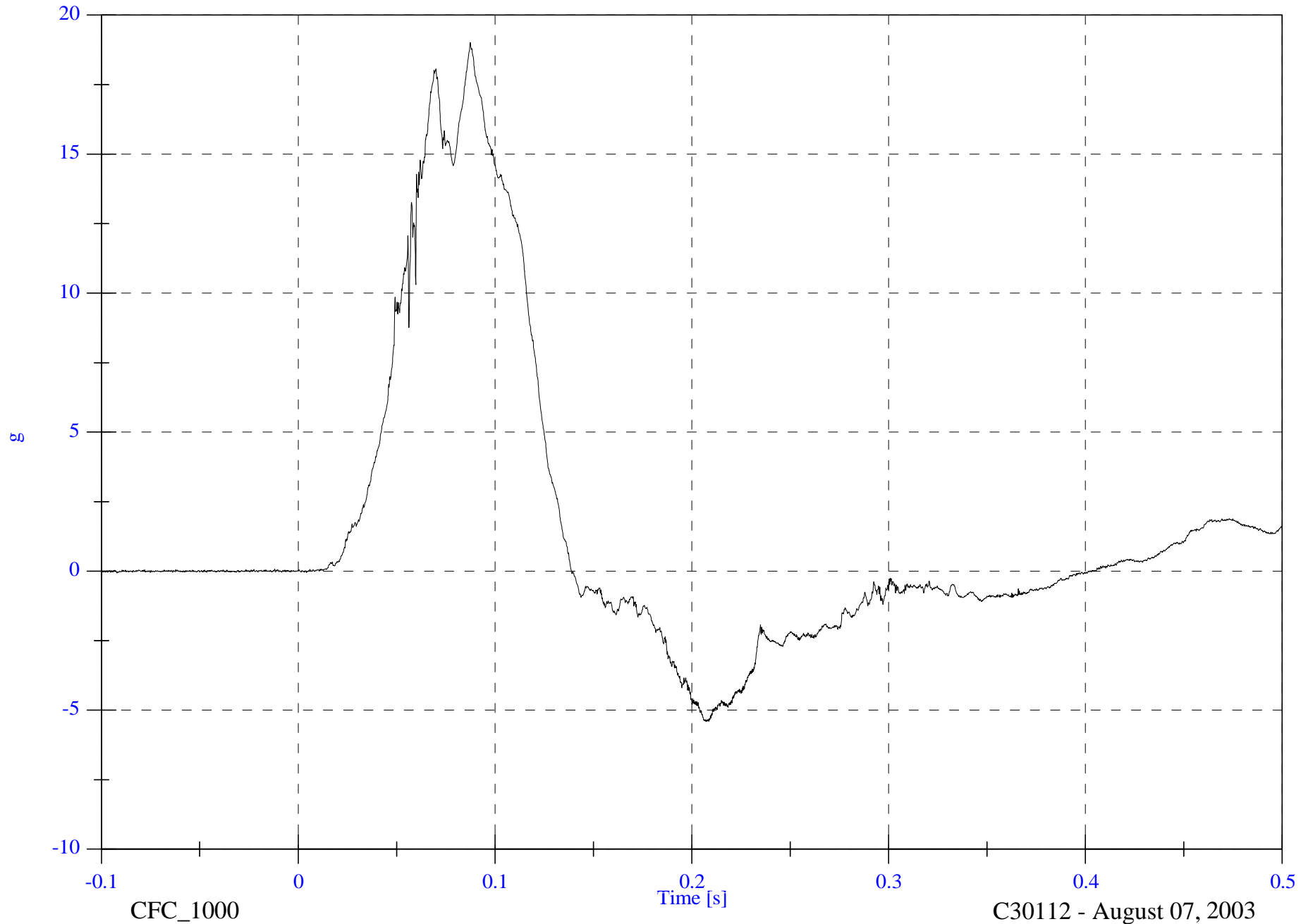
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Lower Neck Ax

Max: 19.0 [g] at 0.087 [s]
Min: -5.4 [g] at 0.208 [s]

B-75

8655-F301-14R



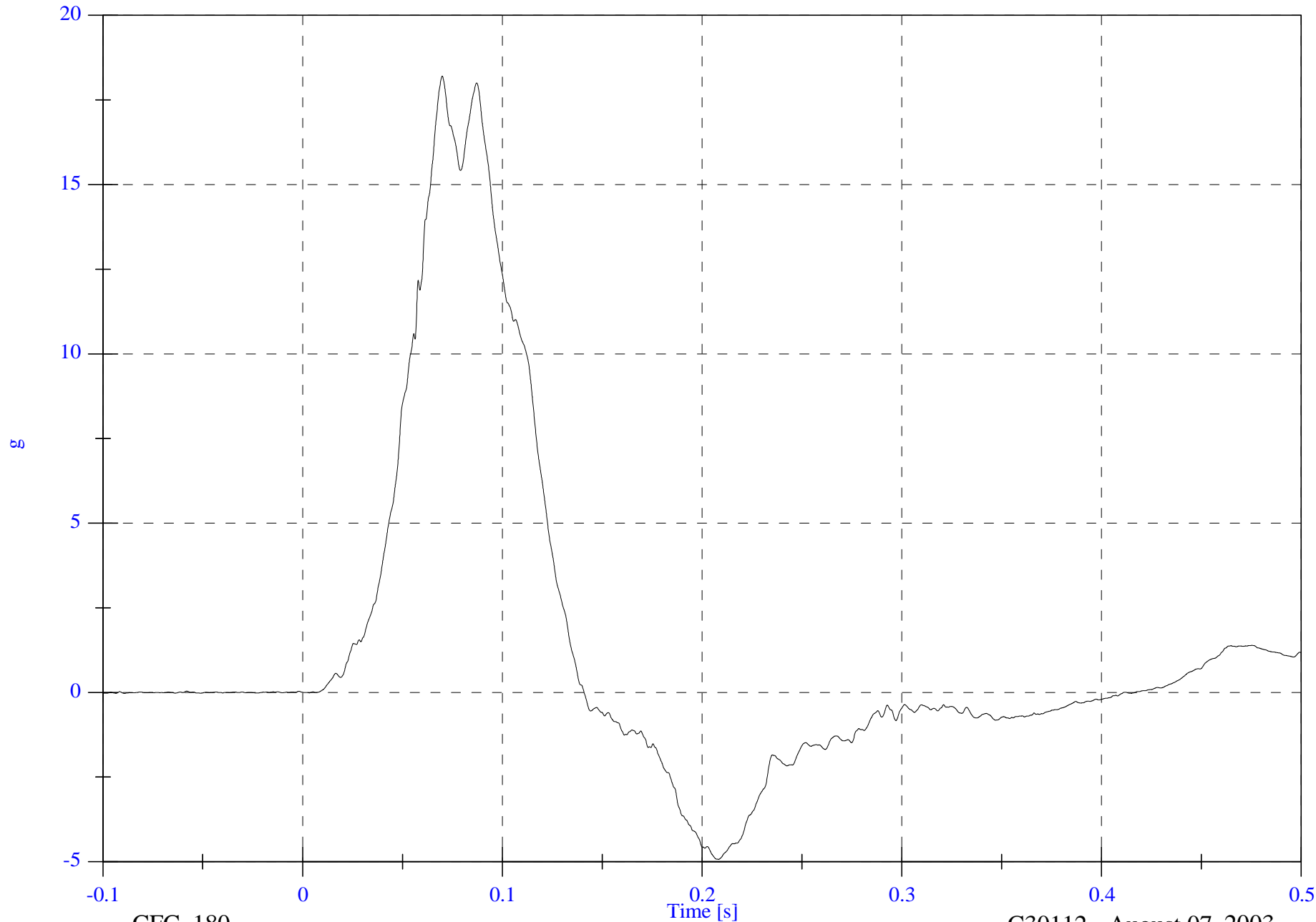
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Chest Ax

Max: 18.2 [g] at 0.070 [s]
Min: -4.9 [g] at 0.208 [s]

B-76

8655-F301-14R



CFC_180

C30112 - August 07, 2003

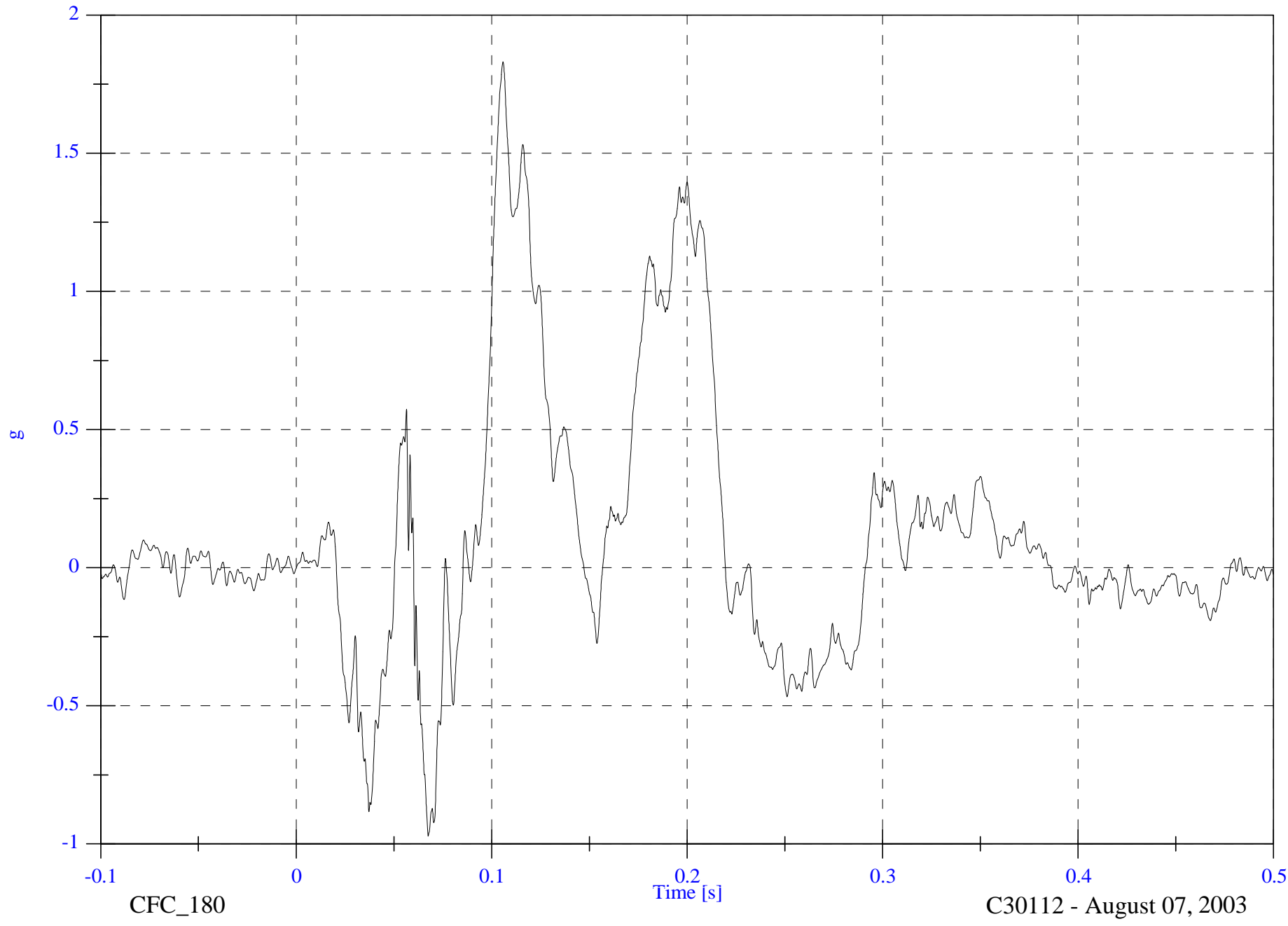
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Chest Ay

Max: 1.8 [g] at 0.106 [s]
Min: -1.0 [g] at 0.067 [s]

B-77

8655-F301-14R



FMVSS 301 Test 5 - 2003 Saturn Ion

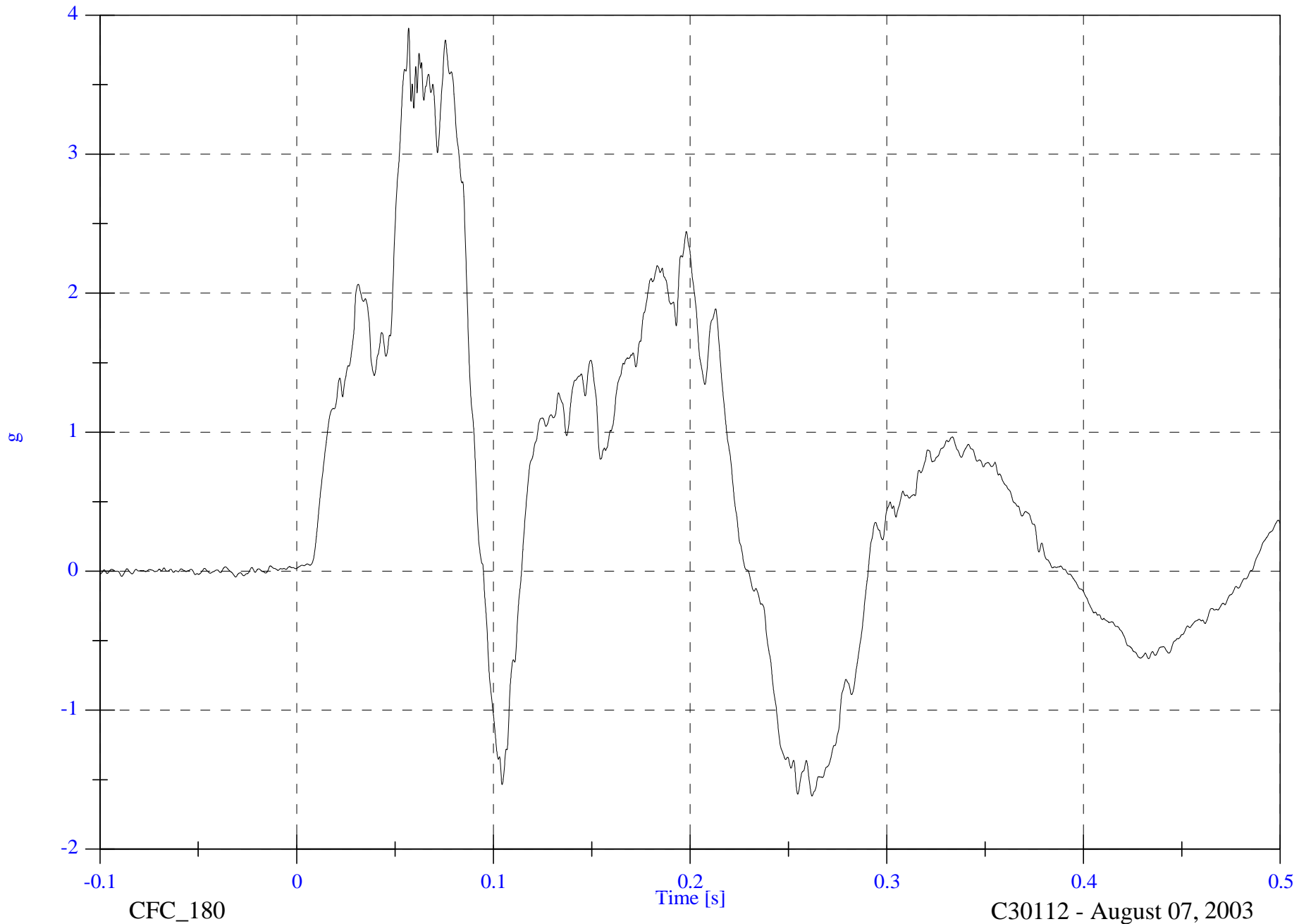
V2P2 Chest Az

Max: 3.9 [g] at 0.057 [s]

Min: -1.6 [g] at 0.262 [s]

B-78

8655-F301-14R



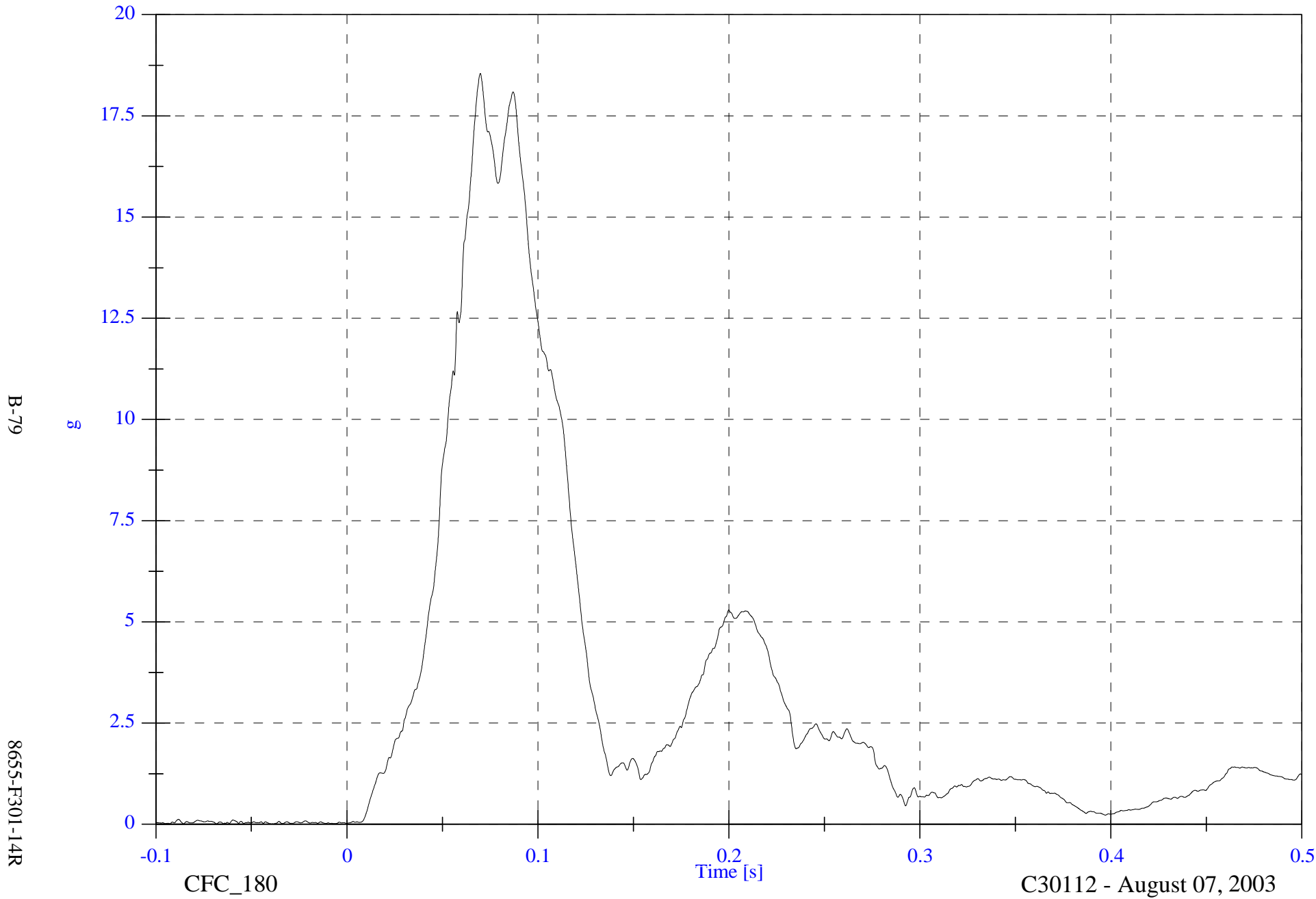
CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Chest A Resultant

Max: 18.5 [g] at 0.070 [s]
Min: 0.0 [g] at -0.068 [s]



B-79

8655-F301-14R

CFC_180

Time [s]

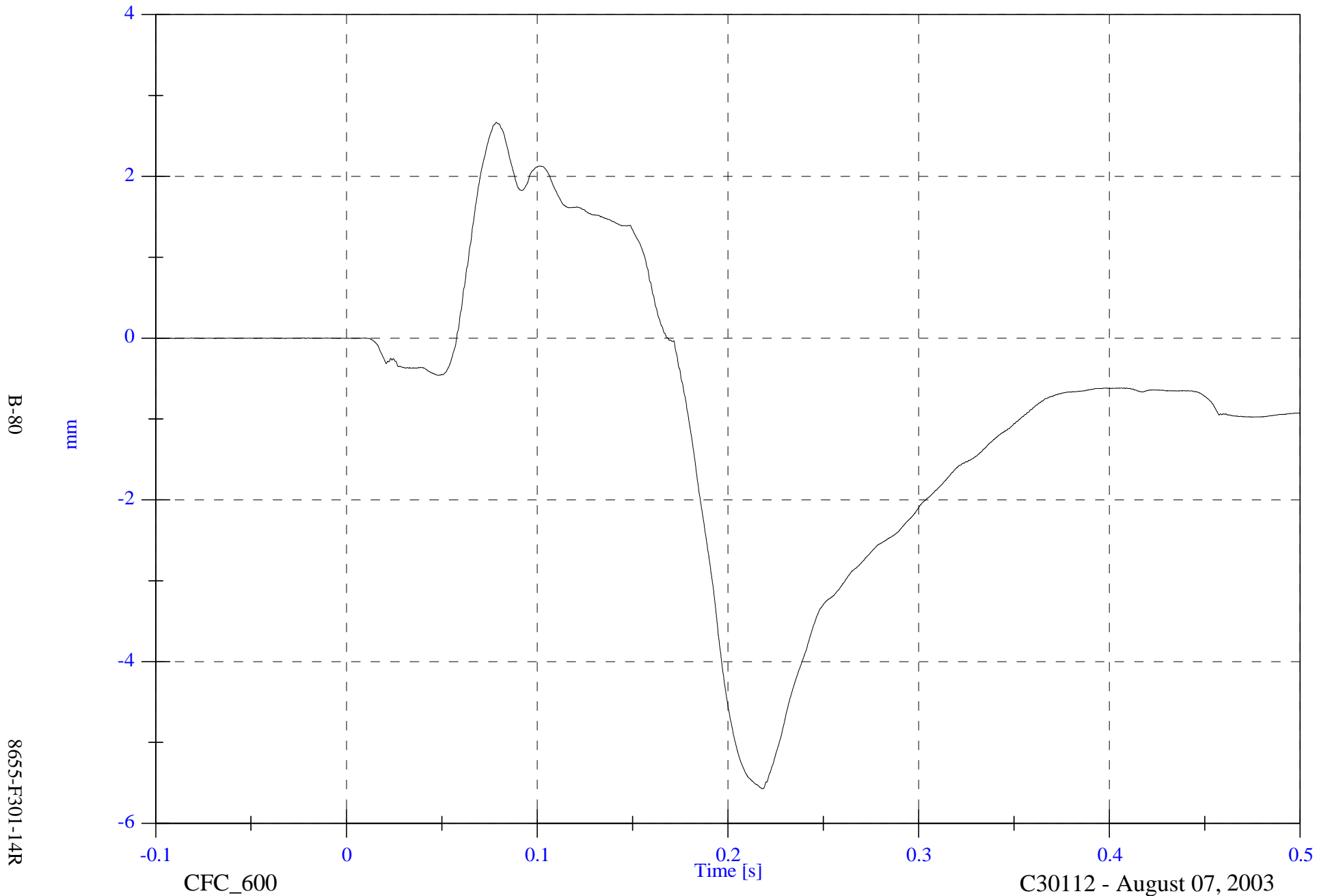
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Chest Dx

Max: 2.7 [mm] at 0.078 [s]

Min: -5.6 [mm] at 0.218 [s]



B-80

8655-F301-14R

CFC_600

C30112 - August 07, 2003

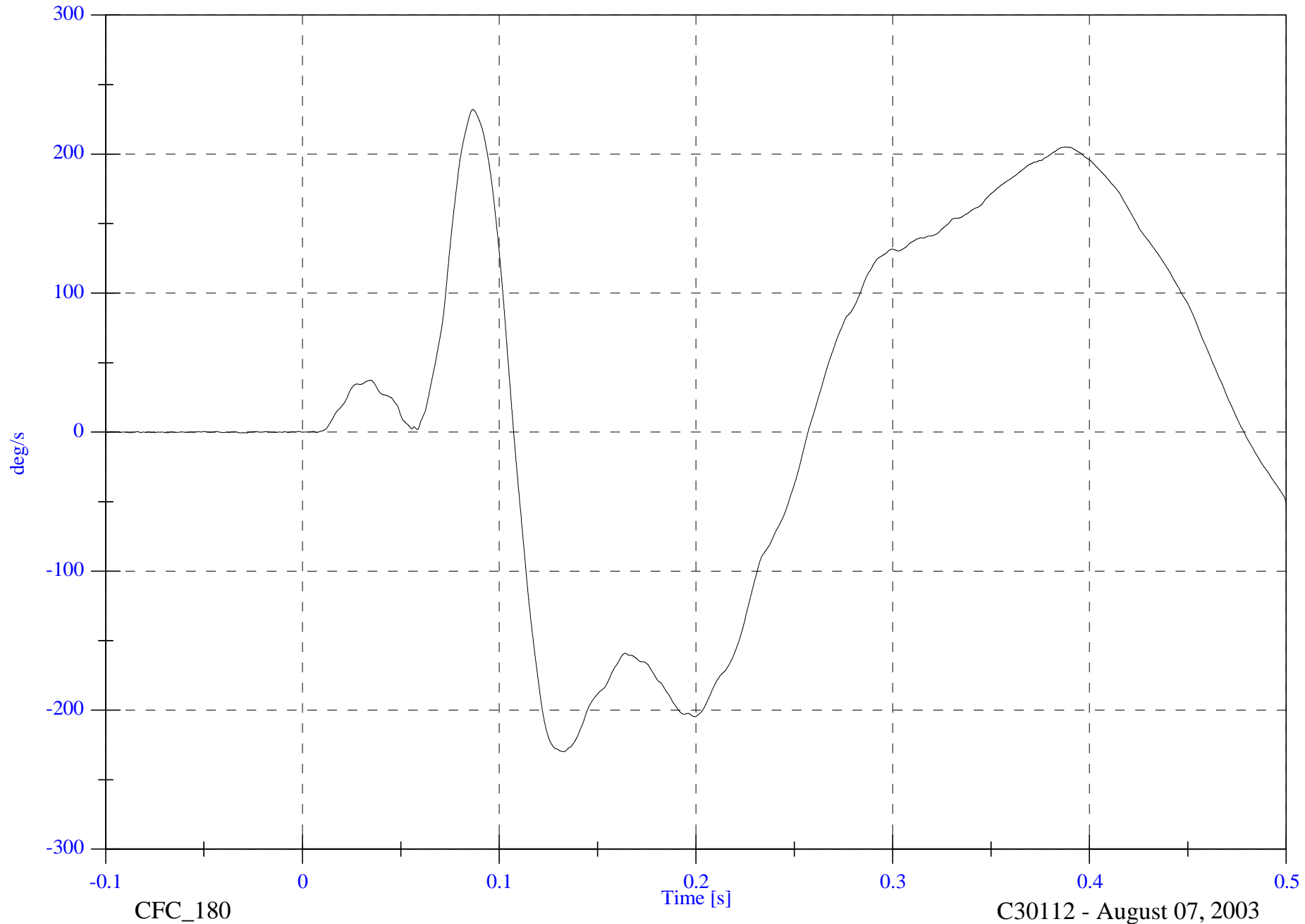
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Chest AVy

Max: 232.1 [deg/s] at 0.087 [s]
Min: -229.8 [deg/s] at 0.133 [s]

B-81

8655-F301-14R



CFC_180

C30112 - August 07, 2003

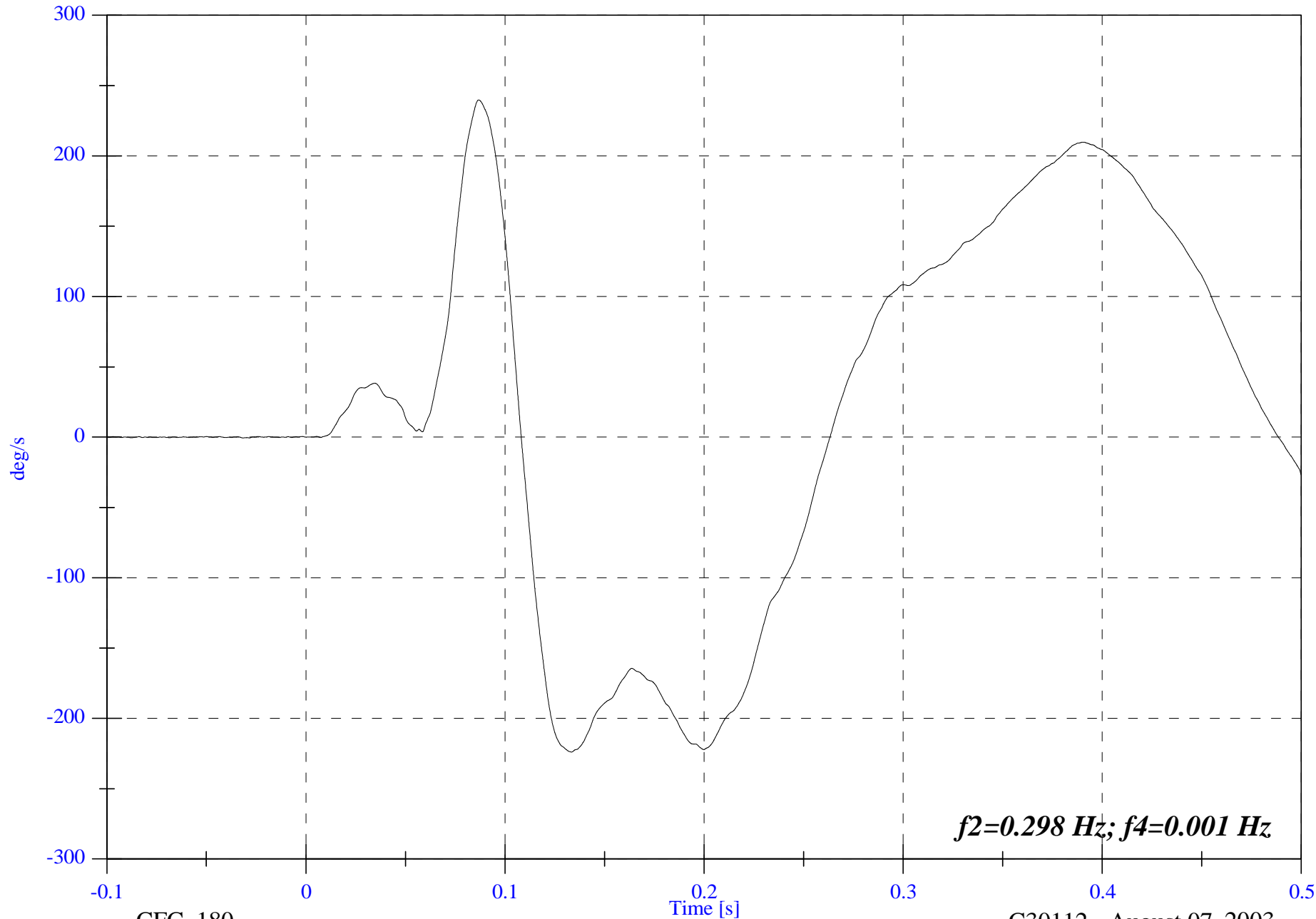
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Chest Comp AVy

Max: 239.9 [deg/s] at 0.087 [s]
Min: -223.9 [deg/s] at 0.133 [s]

B-82

8655-F301-14R



CFC_180

Time [s]

C30112 - August 07, 2003

$f_2=0.298$ Hz; $f_4=0.001$ Hz

FMVSS 301 Test 5 - 2003 Saturn Ion

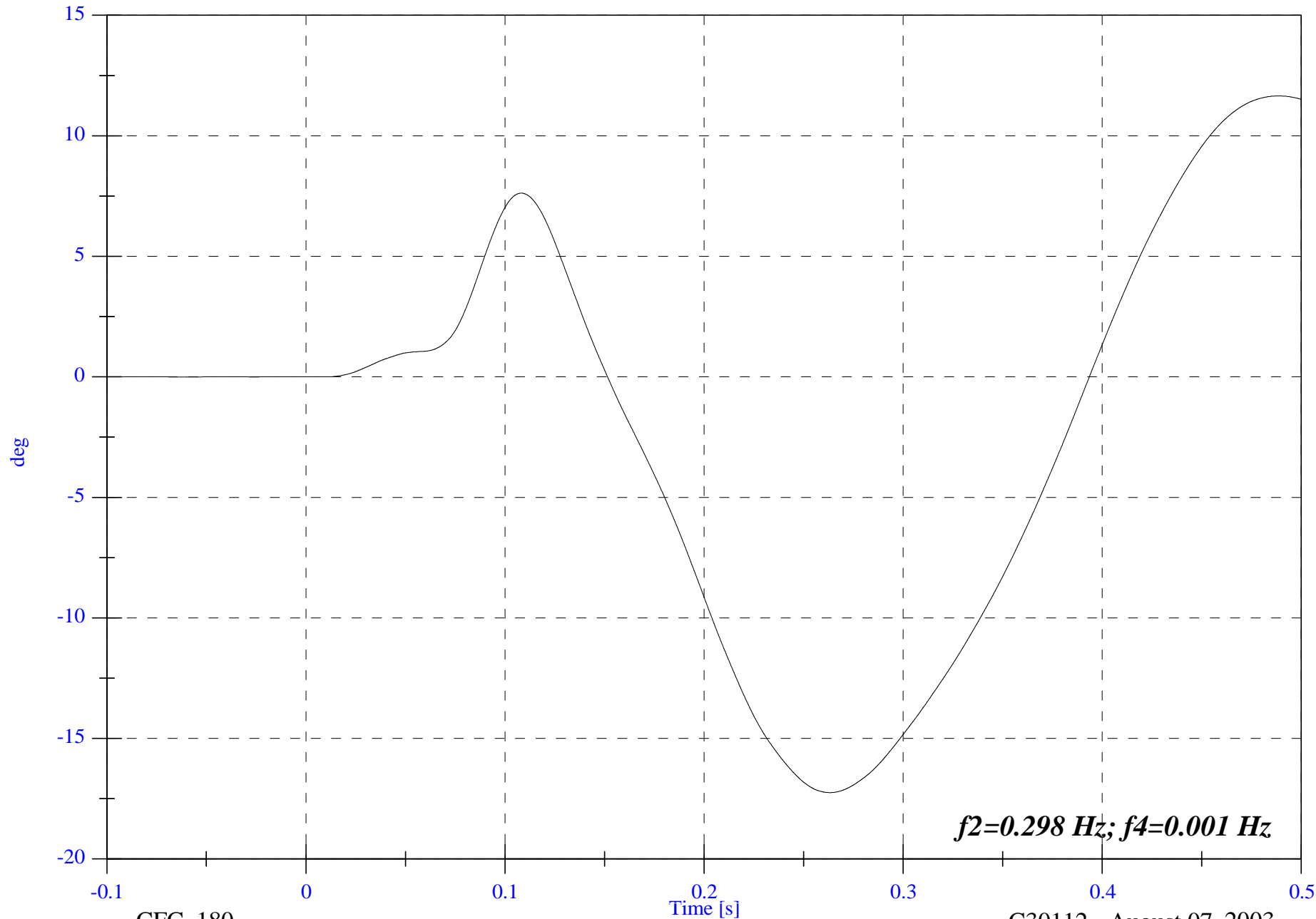
V2P2 Chest Comp ADy

Max: 11.7 [deg] at 0.489 [s]

Min: -17.2 [deg] at 0.263 [s]

B-83

8655-F301-14R



f2=0.298 Hz; f4=0.001 Hz

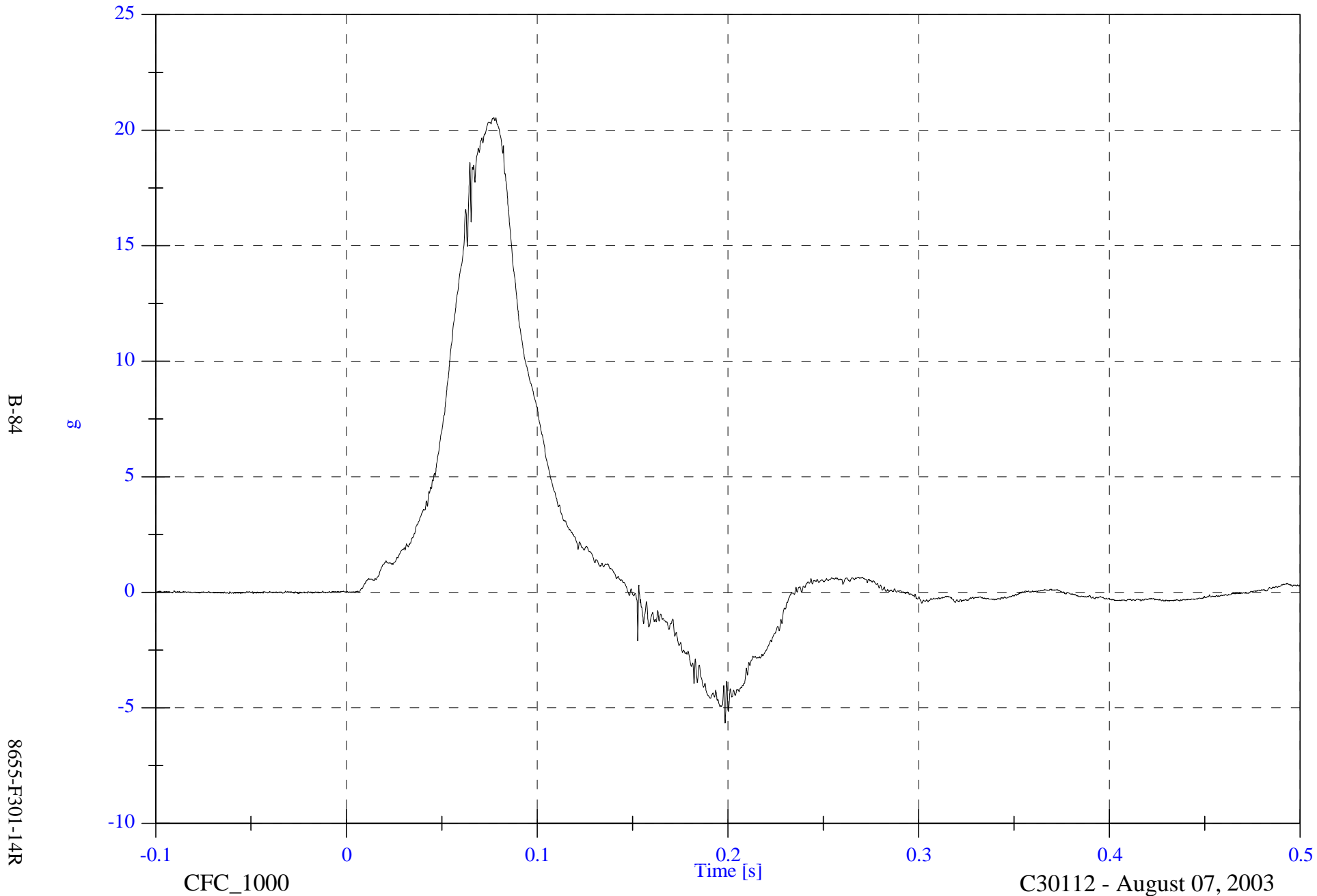
CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Pelvic Ax

Max: 20.5 [g] at 0.077 [s]
Min: -5.7 [g] at 0.199 [s]



B-84

8655-F301-14R

CFC_1000

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

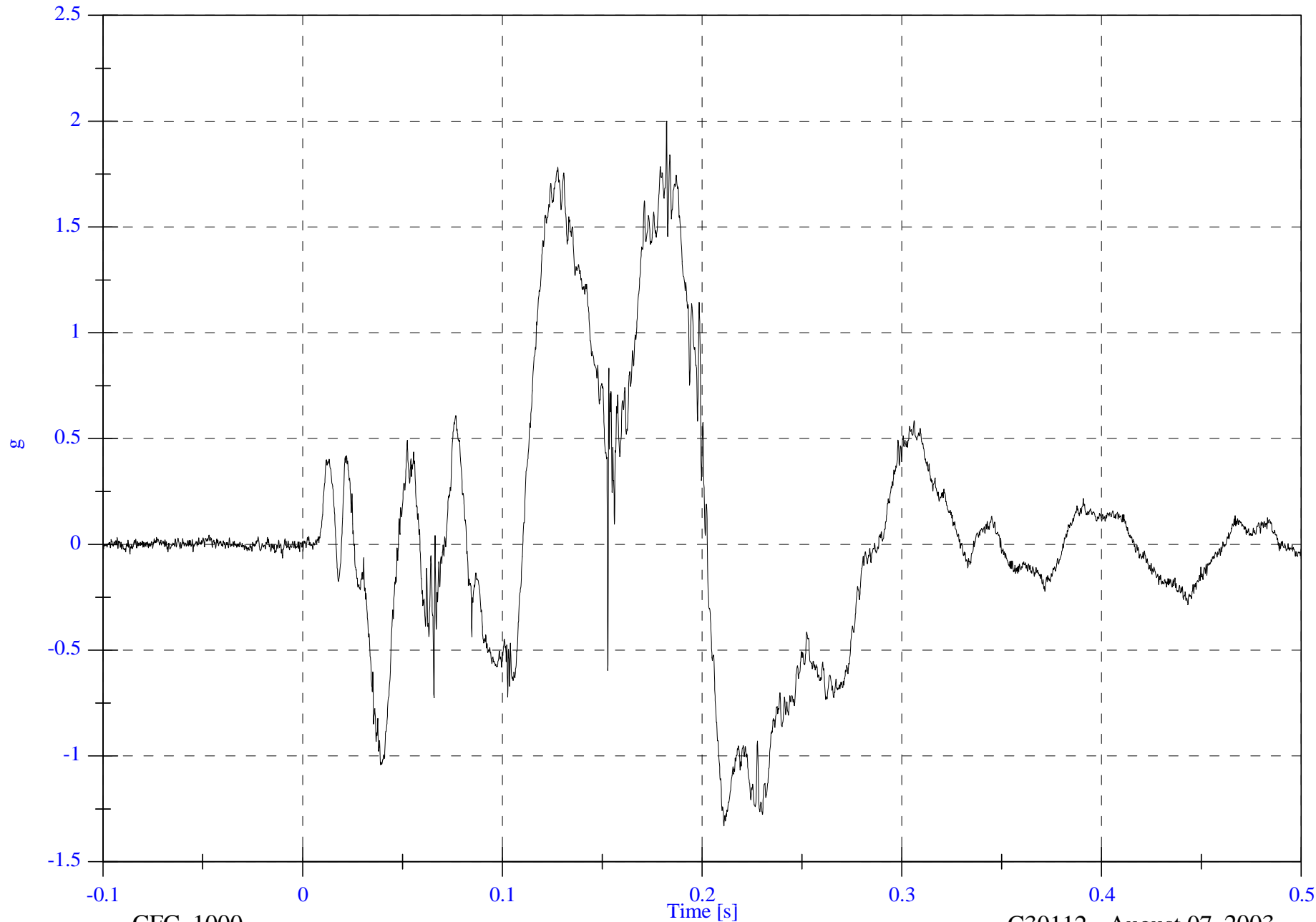
V2P2 Pelvic Ay

Max: 2.0 [g] at 0.182 [s]

Min: -1.3 [g] at 0.211 [s]

B-85

8655-F301-14R



CFC_1000

C30112 - August 07, 2003

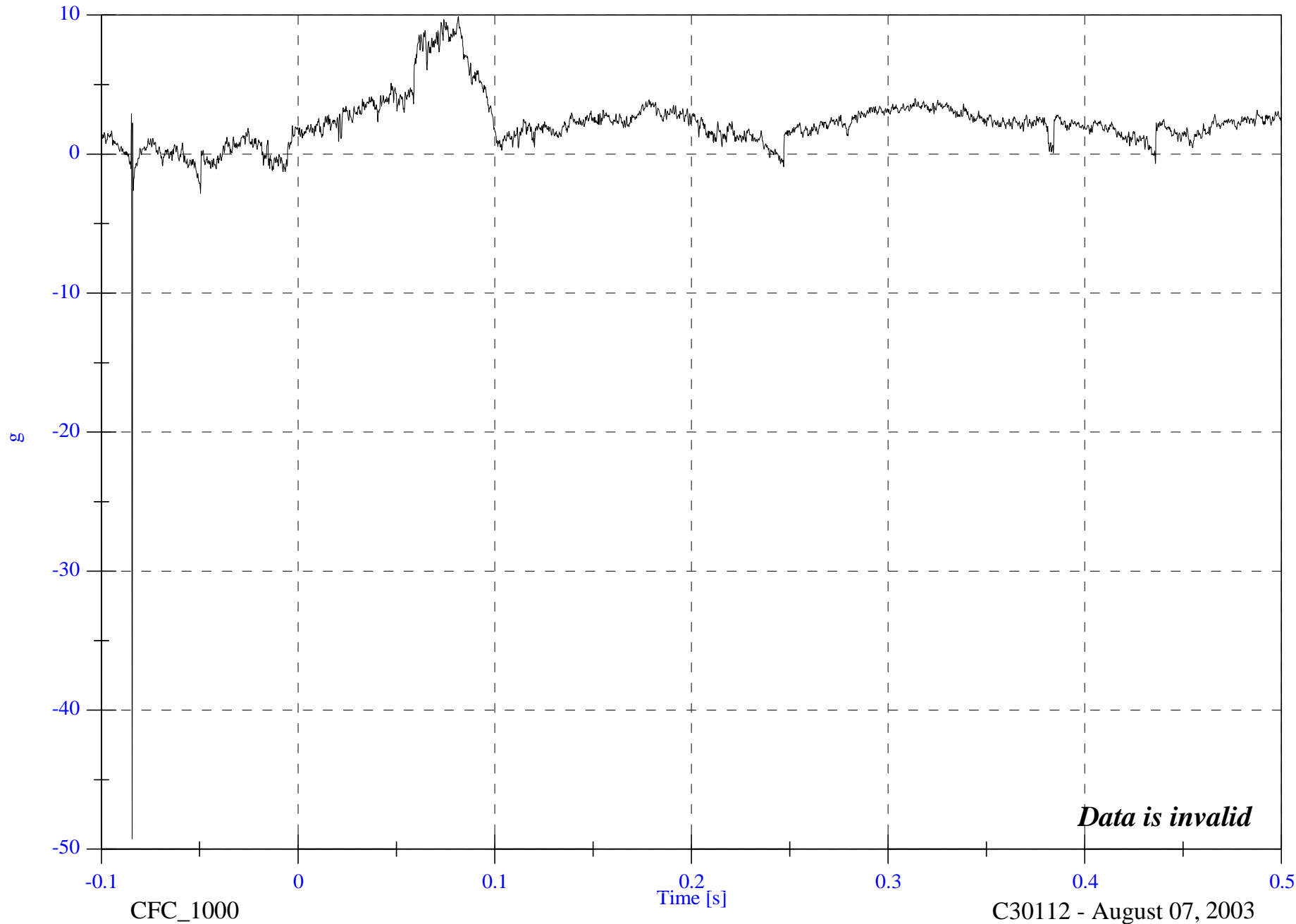
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Pelvic Az

Max: 9.9 [g] at 0.081 [s]
Min: -49.3 [g] at -0.084 [s]

B-86

8655-F301-14R



Data is invalid

CFC_1000

Time [s]

C30112 - August 07, 2003

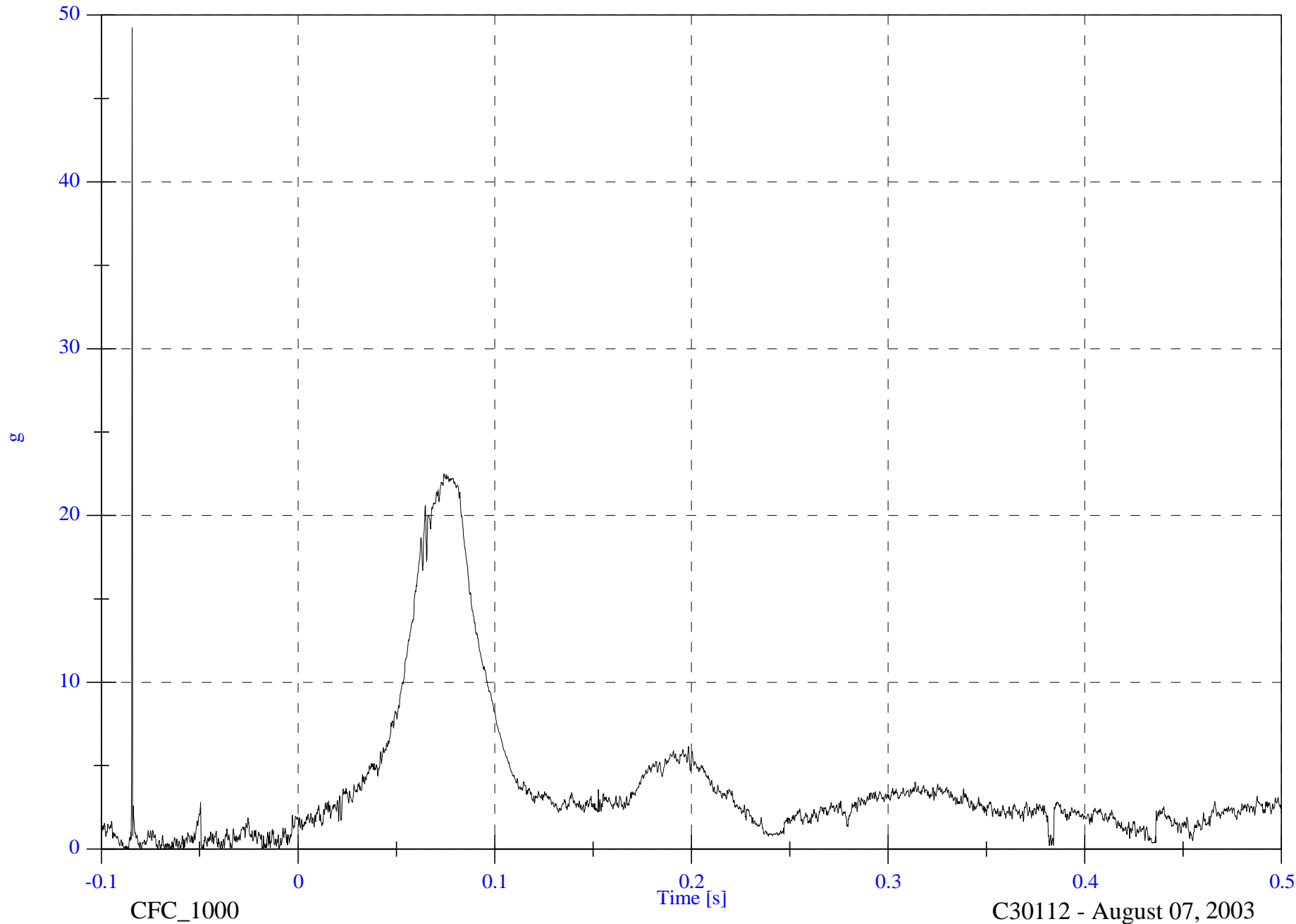
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Pelvic A Resultant

Max: 49.3 [g] at -0.084 [s]
Min: 0.0 [g] at -0.018 [s]

B-87

8655-F301-14R



CFC_1000

Time [s]

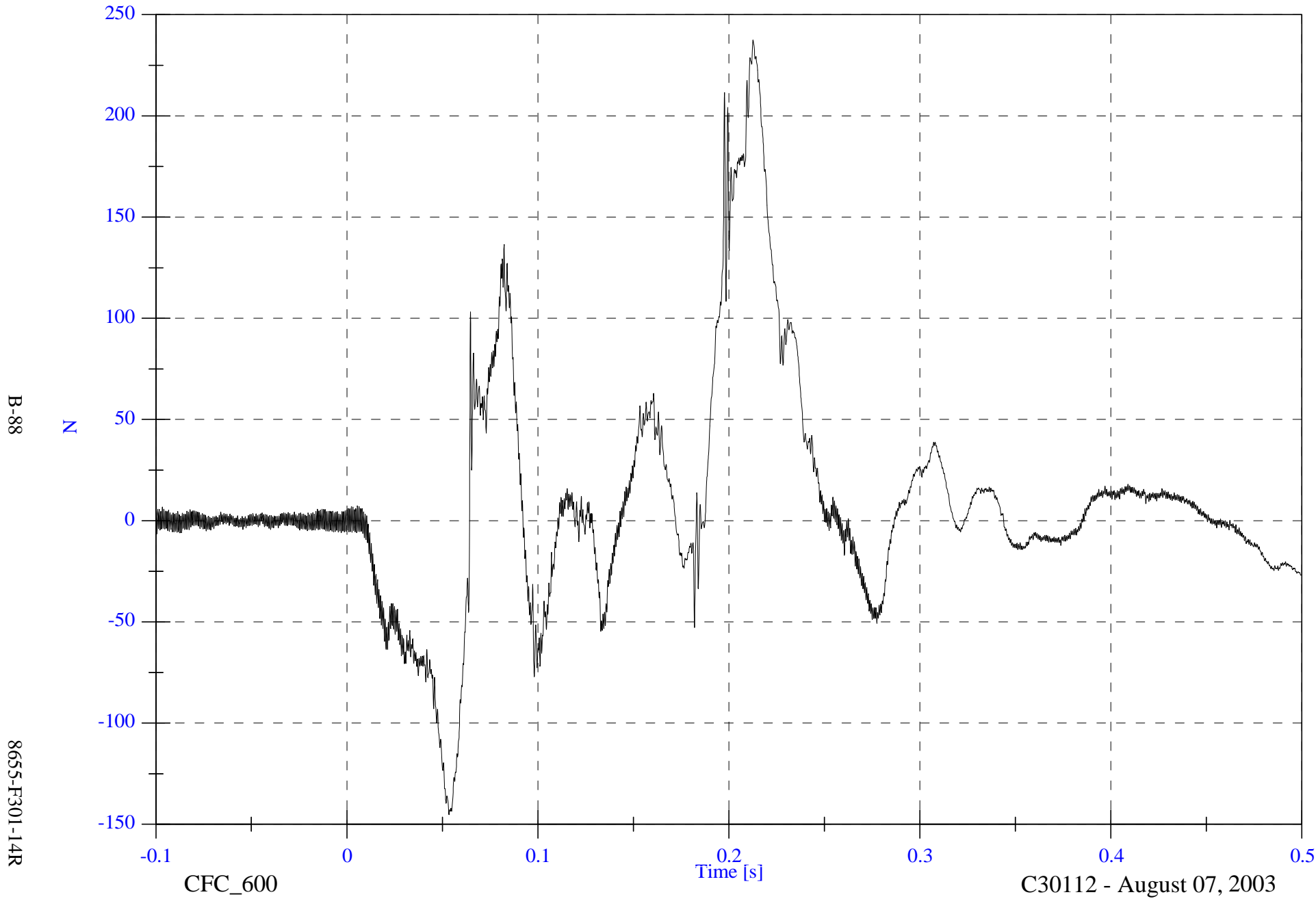
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Left Femur Fz

Max: 237.5 [N] at 0.213 [s]

Min: -145.2 [N] at 0.053 [s]



B-88

8655-F301-14R

CFC_600

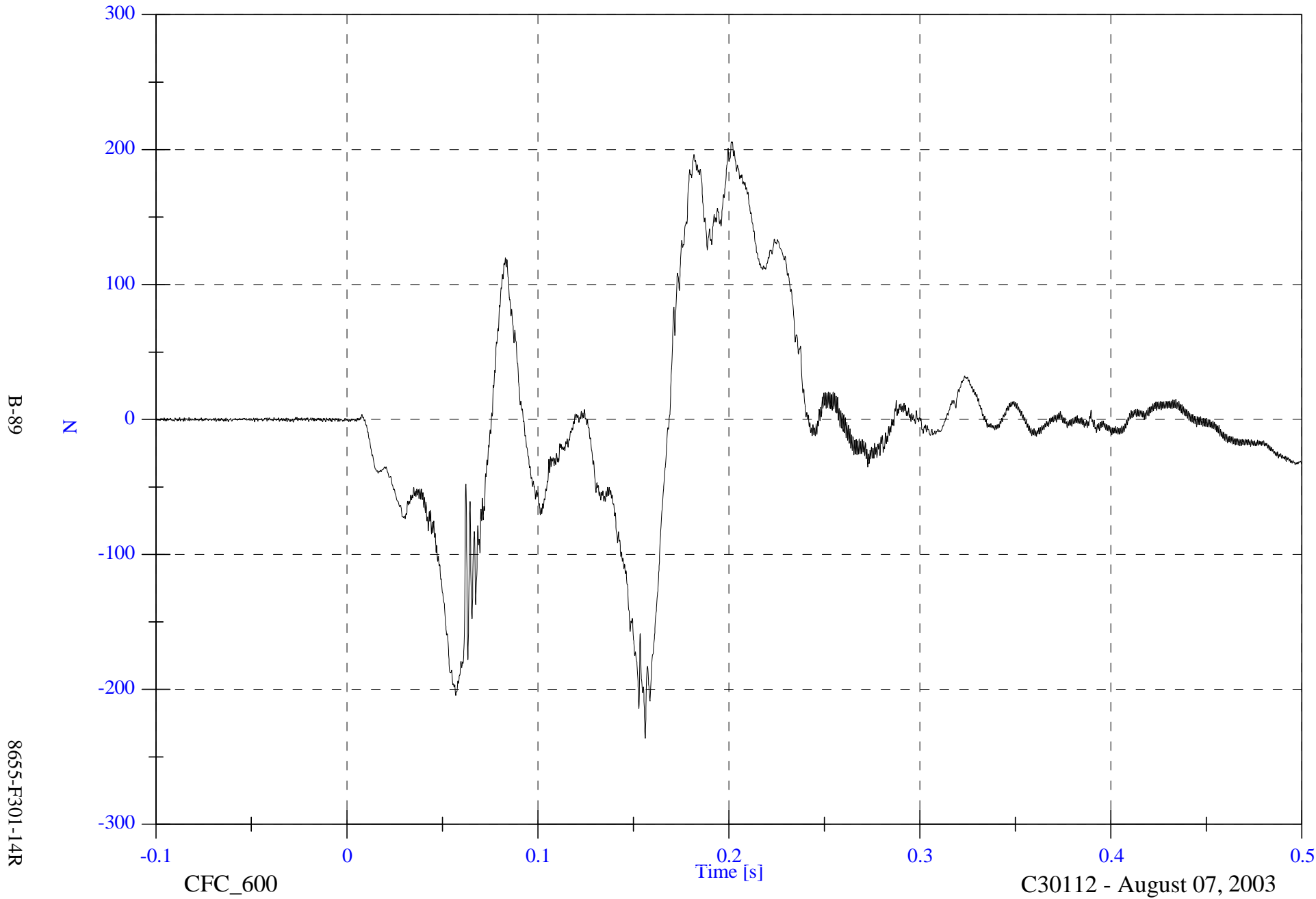
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Right Femur Fz

Max: 205.8 [N] at 0.201 [s]

Min: -236.3 [N] at 0.156 [s]



B-89

8655-F301-14R

CFC_600

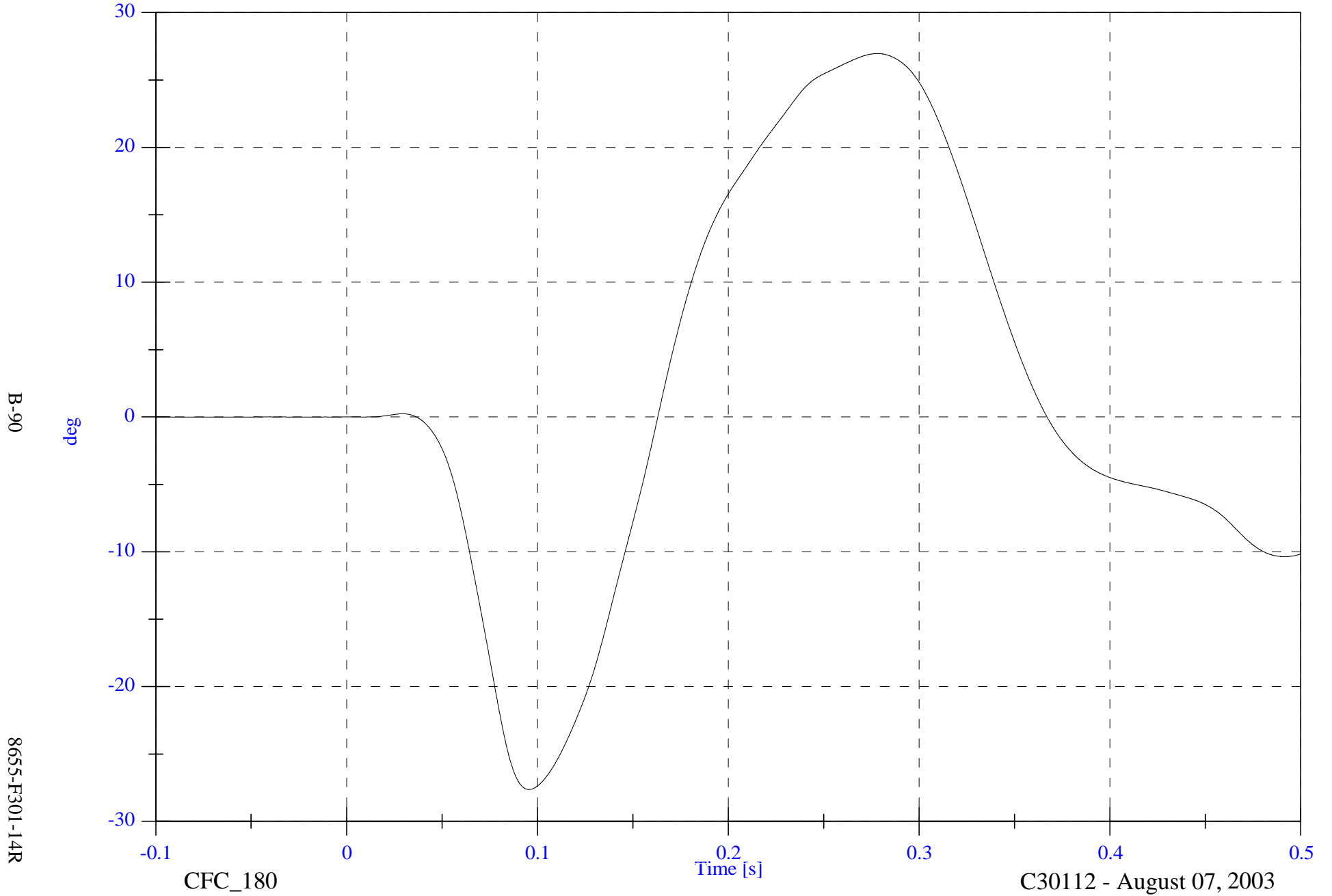
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Head to Chest Comp ADy

Max: 27.0 [deg] at 0.278 [s]

Min: -27.6 [deg] at 0.096 [s]



B-90

8655-F301-14R

CFC_180

Time [s]

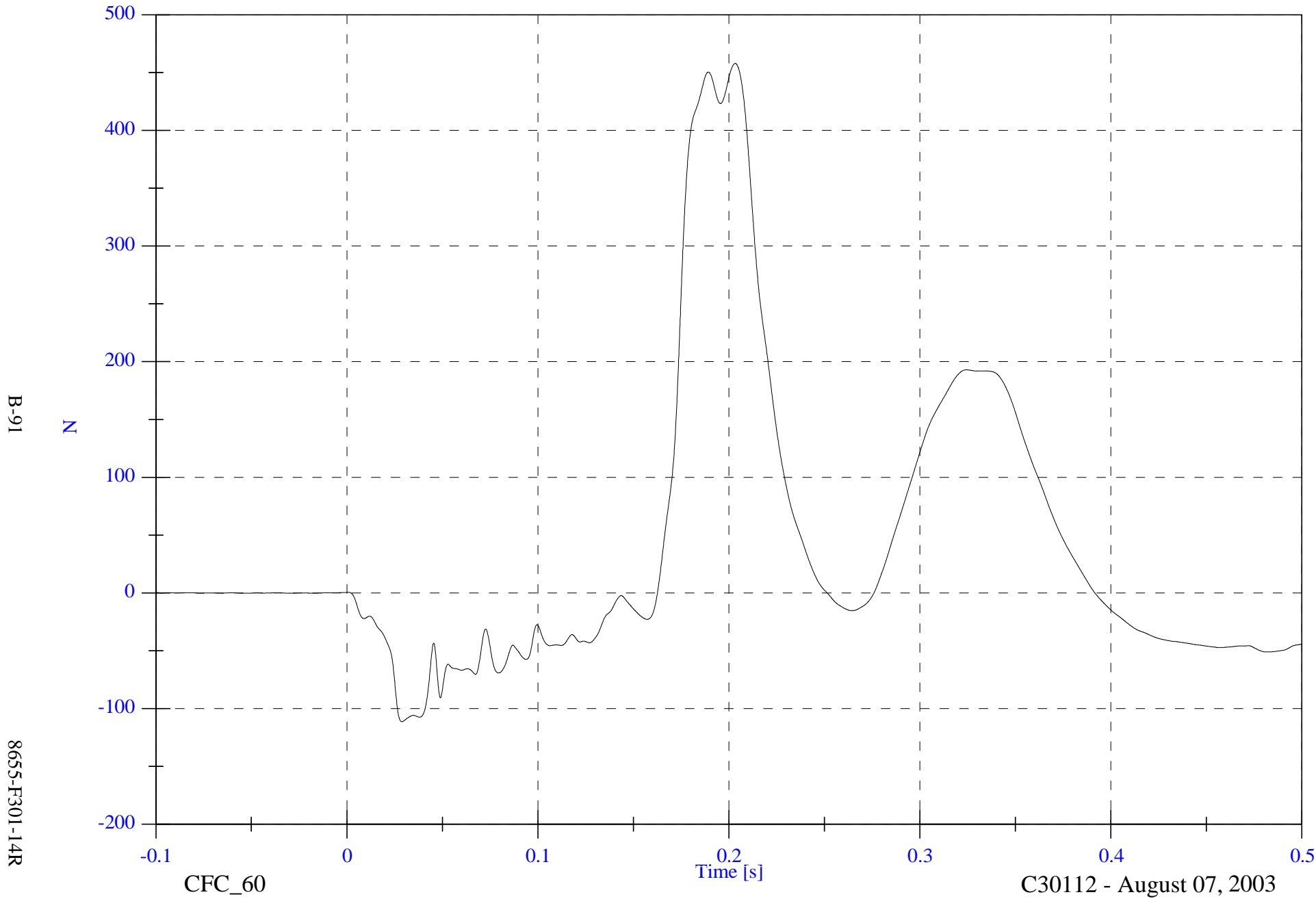
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Lap Belt F

Max: 457.8 [N] at 0.203 [s]

Min: -111.3 [N] at 0.029 [s]



B-91

8655-F301-14R

CFC_60

C30112 - August 07, 2003

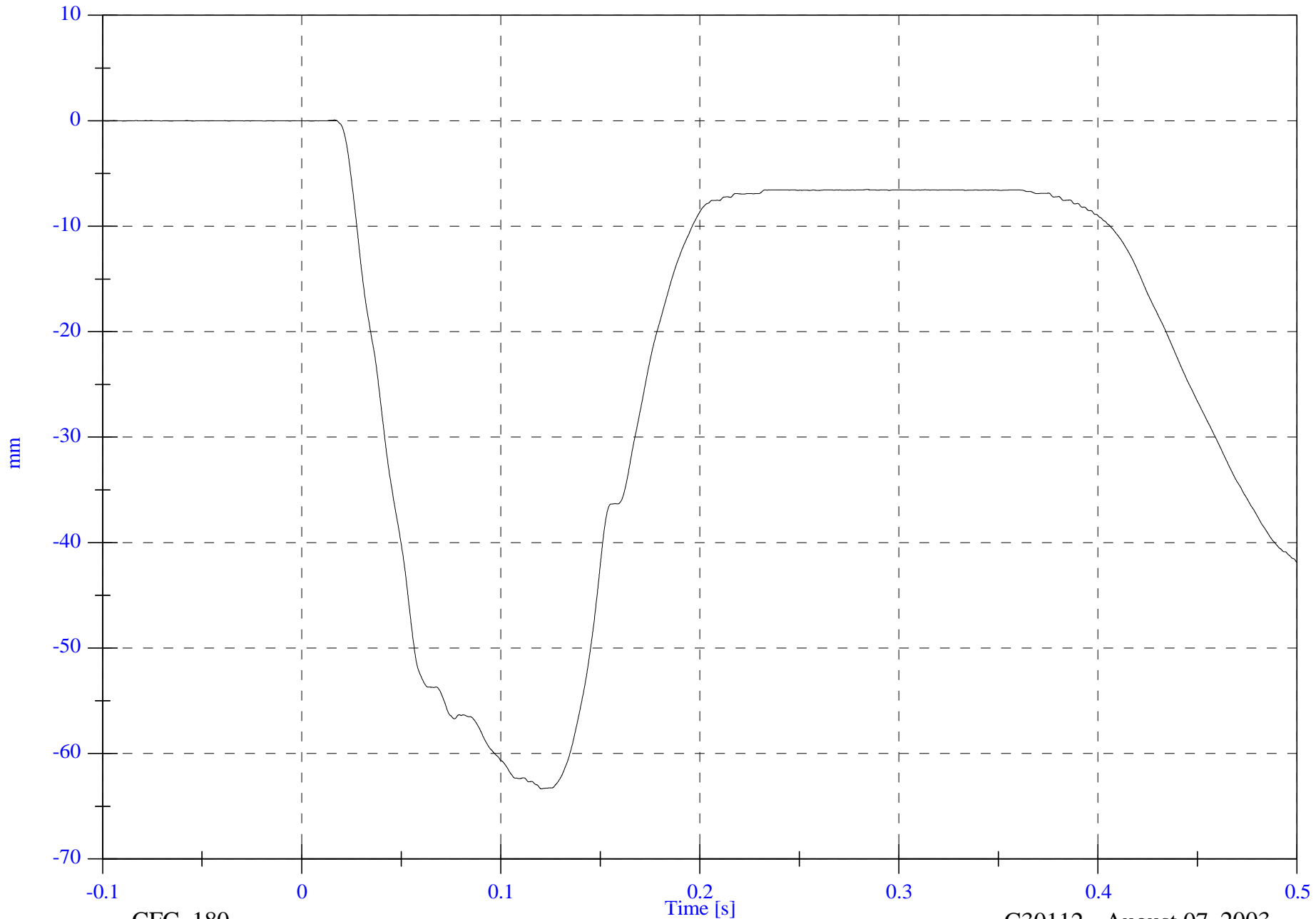
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Belt Spoolout

Max: 0.1 [mm] at 0.016 [s]
Min: -63.3 [mm] at 0.120 [s]

B-92

8655-F301-14R



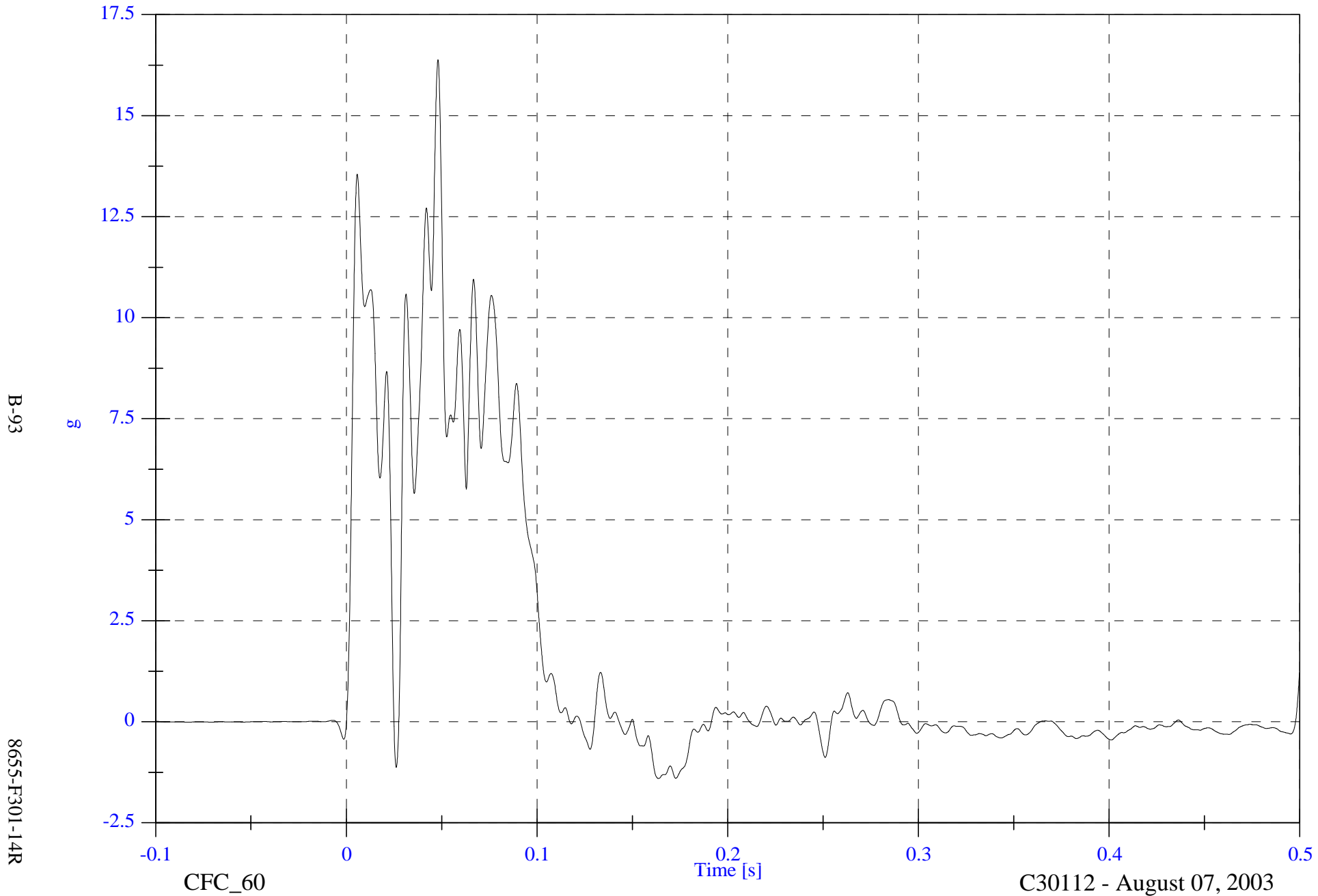
CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2 Left X Member Ax

Max: 16.4 [g] at 0.048 [s]
Min: -1.4 [g] at 0.163 [s]



B-93

8655-F301-14R

CFC_60

C30112 - August 07, 2003

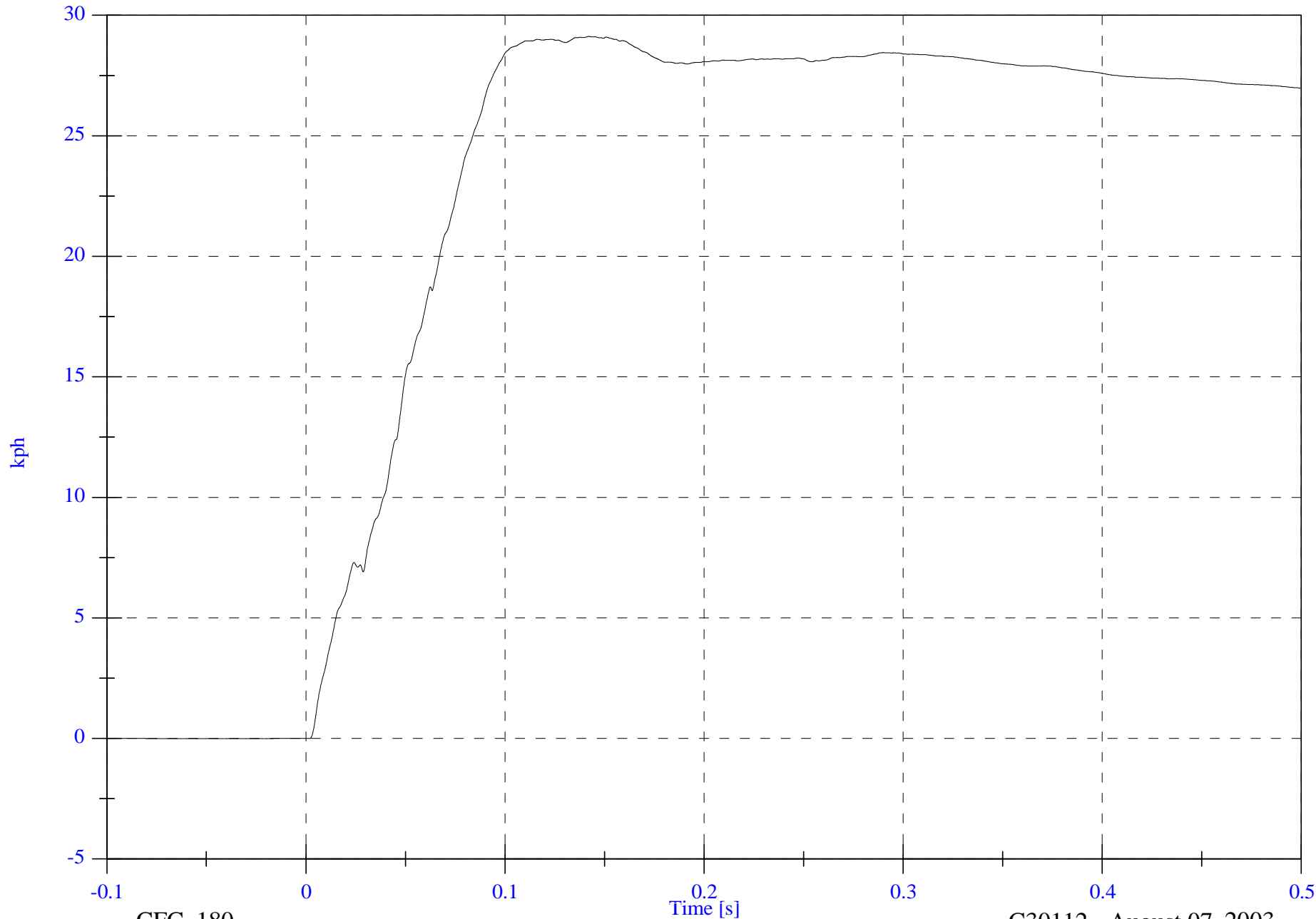
FMVSS 301 Test 5 - 2003 Saturn Ion

V2 Left X Member Ax Velocity

Max: 29.1 [kph] at 0.142 [s]
Min: -0.0 [kph] at -0.052 [s]

B-94

8655-F301-14R



CFC_180

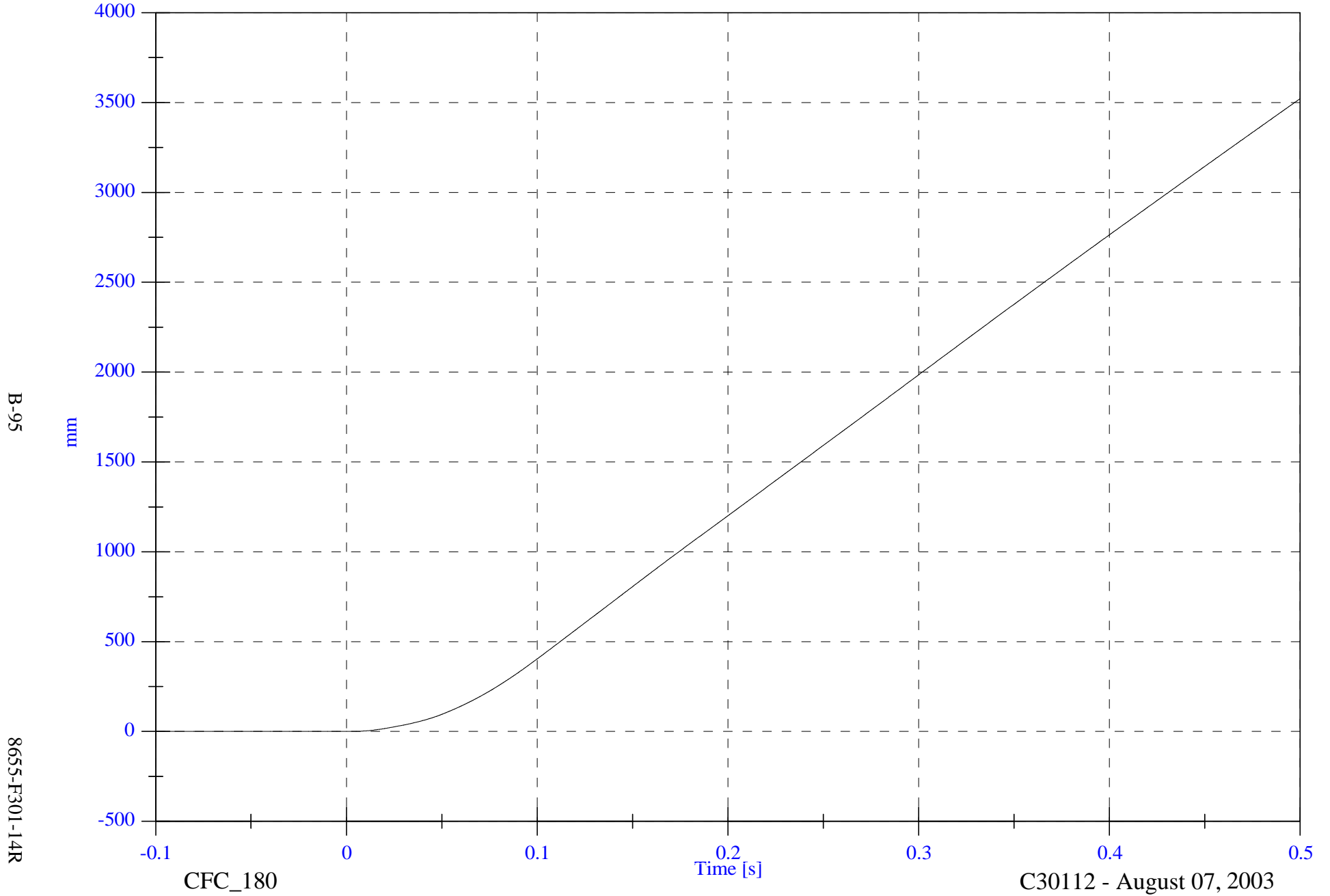
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2 Left X Member Ax Displacement

Max: 3520.5 [mm] at 0.500 [s]

Min: -0.0 [mm] at -0.012 [s]



B-95

8655-F301-14R

CFC_180

Time [s]

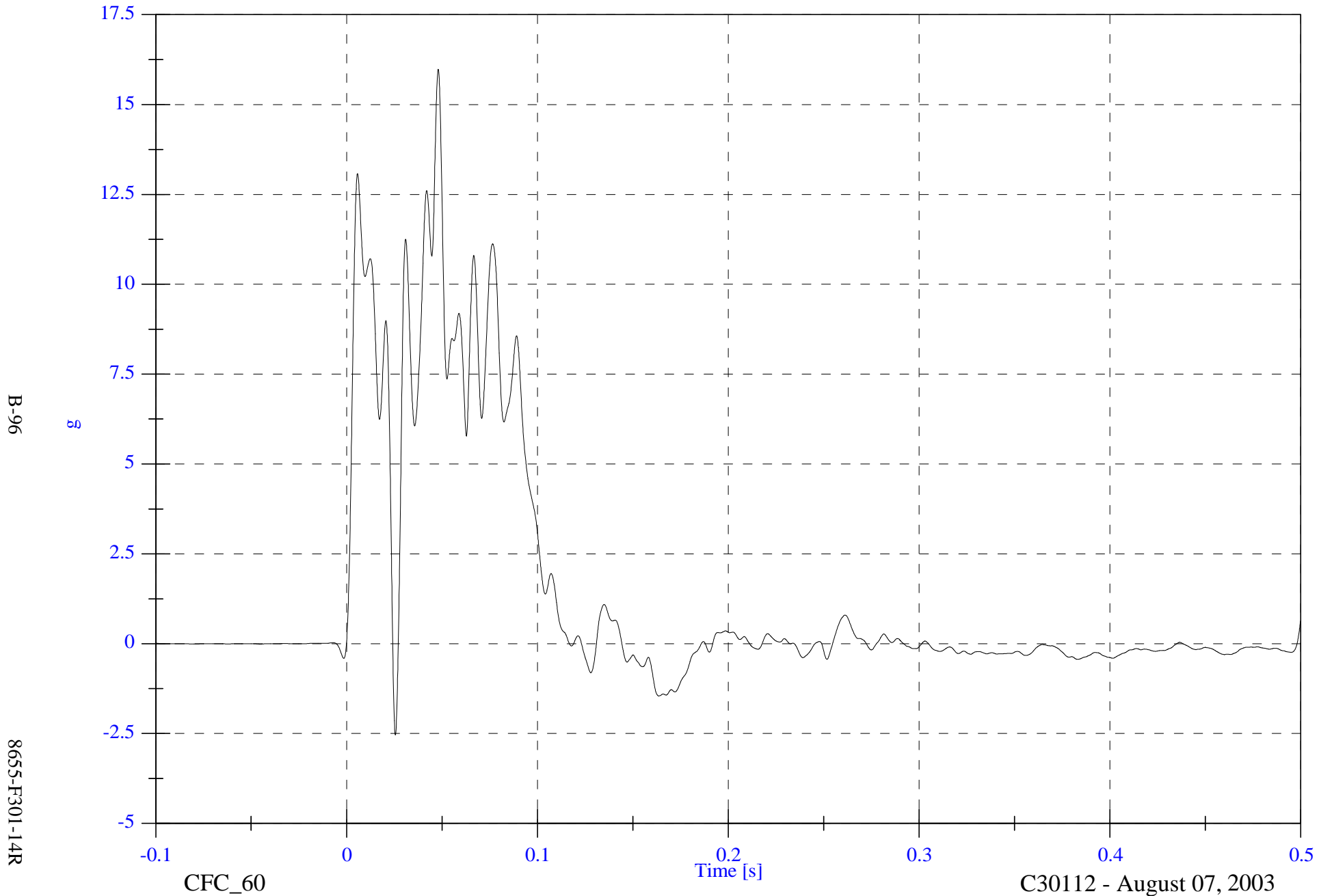
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2 Left X Member Red Ax

Max: 16.0 [g] at 0.048 [s]

Min: -2.5 [g] at 0.025 [s]



B-96

8655-F301-14R

CFC_60

Time [s]

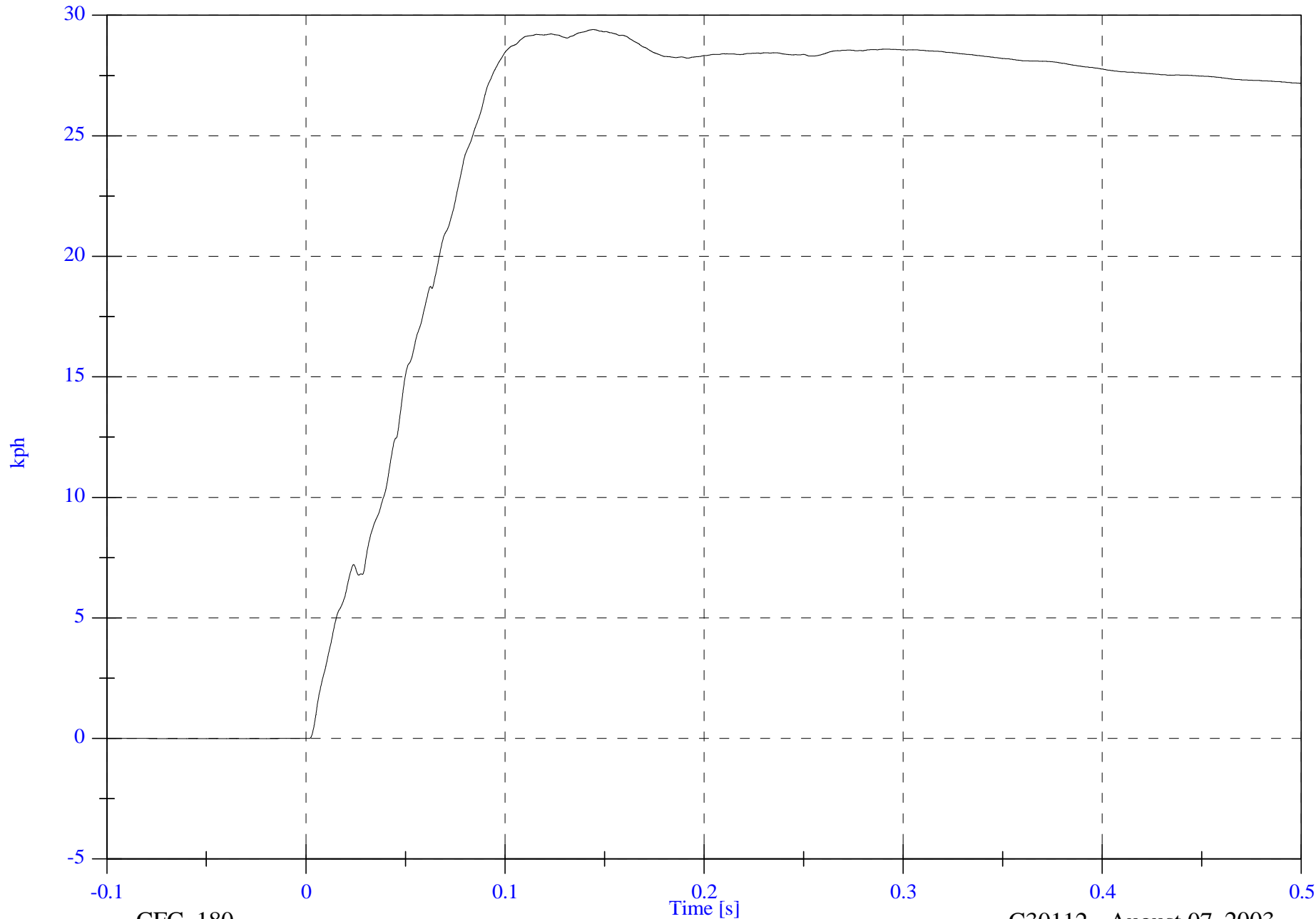
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2 Left X Member Red Ax Velocity

Max: 29.4 [kph] at 0.144 [s]

Min: -0.0 [kph] at -0.038 [s]



B-97

8655-F301-14R

CFC_180

Time [s]

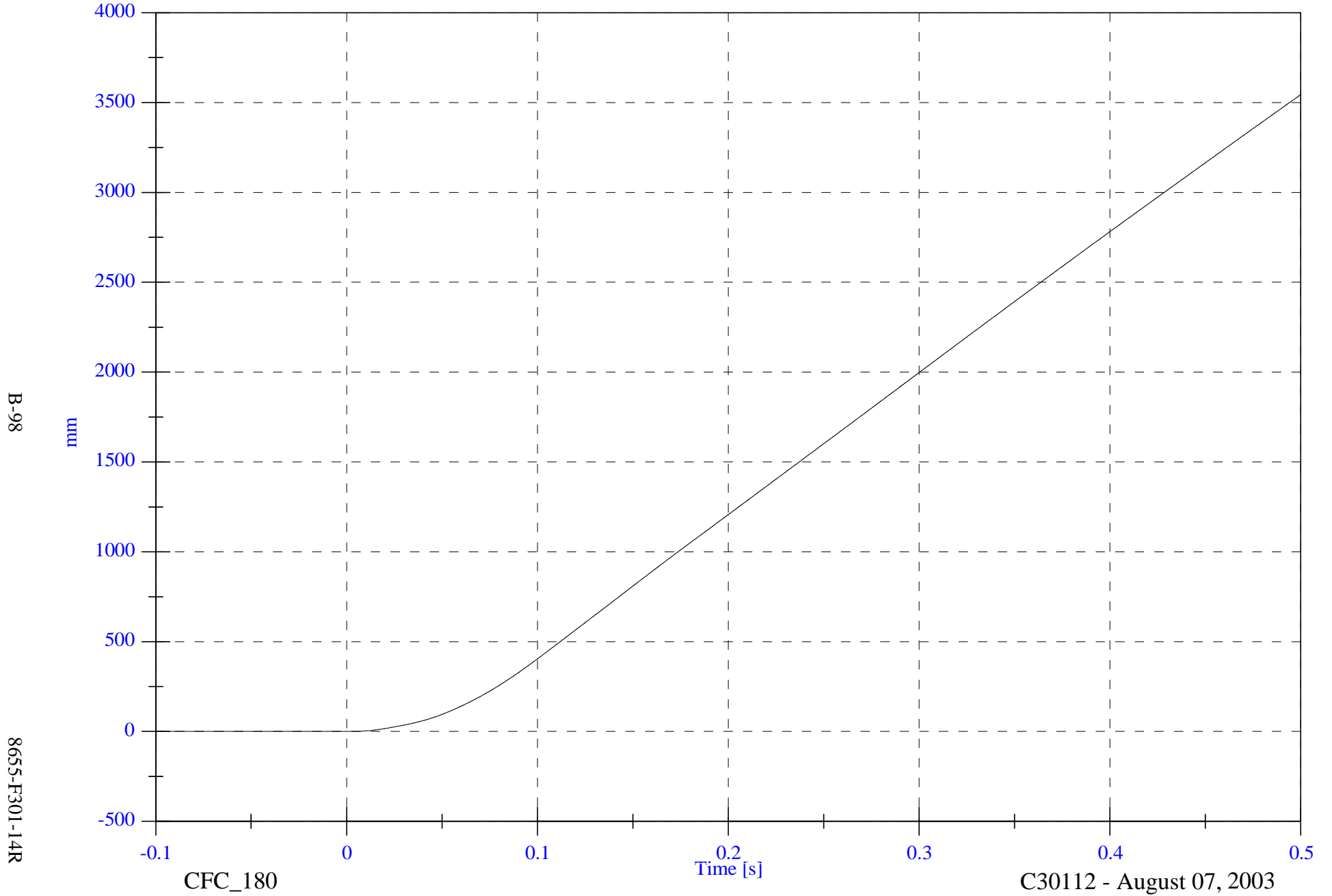
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2 Left X Member Red Ax Displacement

Max: 3543.1 [mm] at 0.500 [s]

Min: -0.0 [mm] at -0.010 [s]



B-98

8655-F301-14R

CFC_180

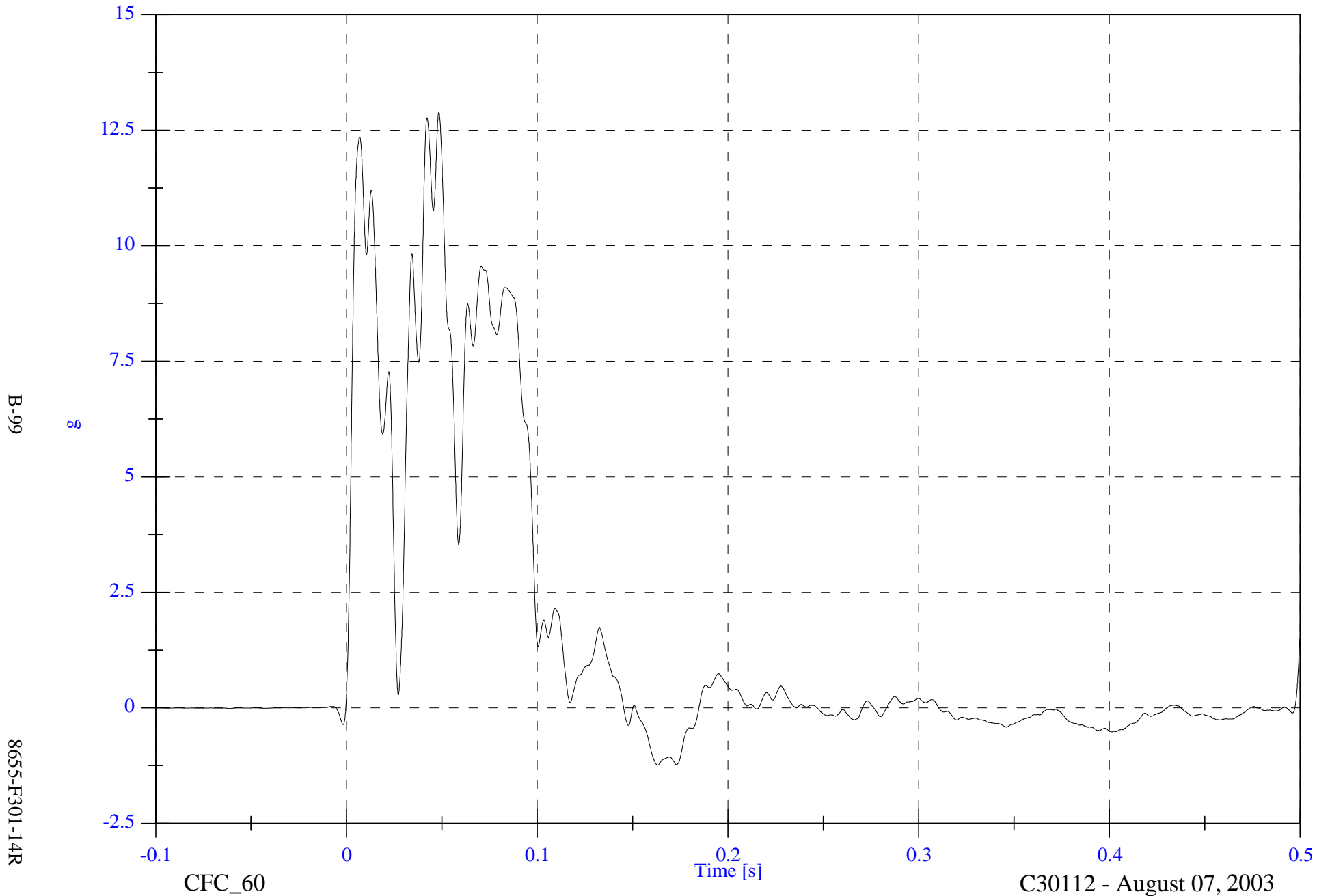
Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

V2 Right X Member Ax

Max: 12.9 [g] at 0.048 [s]
Min: -1.2 [g] at 0.163 [s]



B-99

8655-F301-14R

CFC_60

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

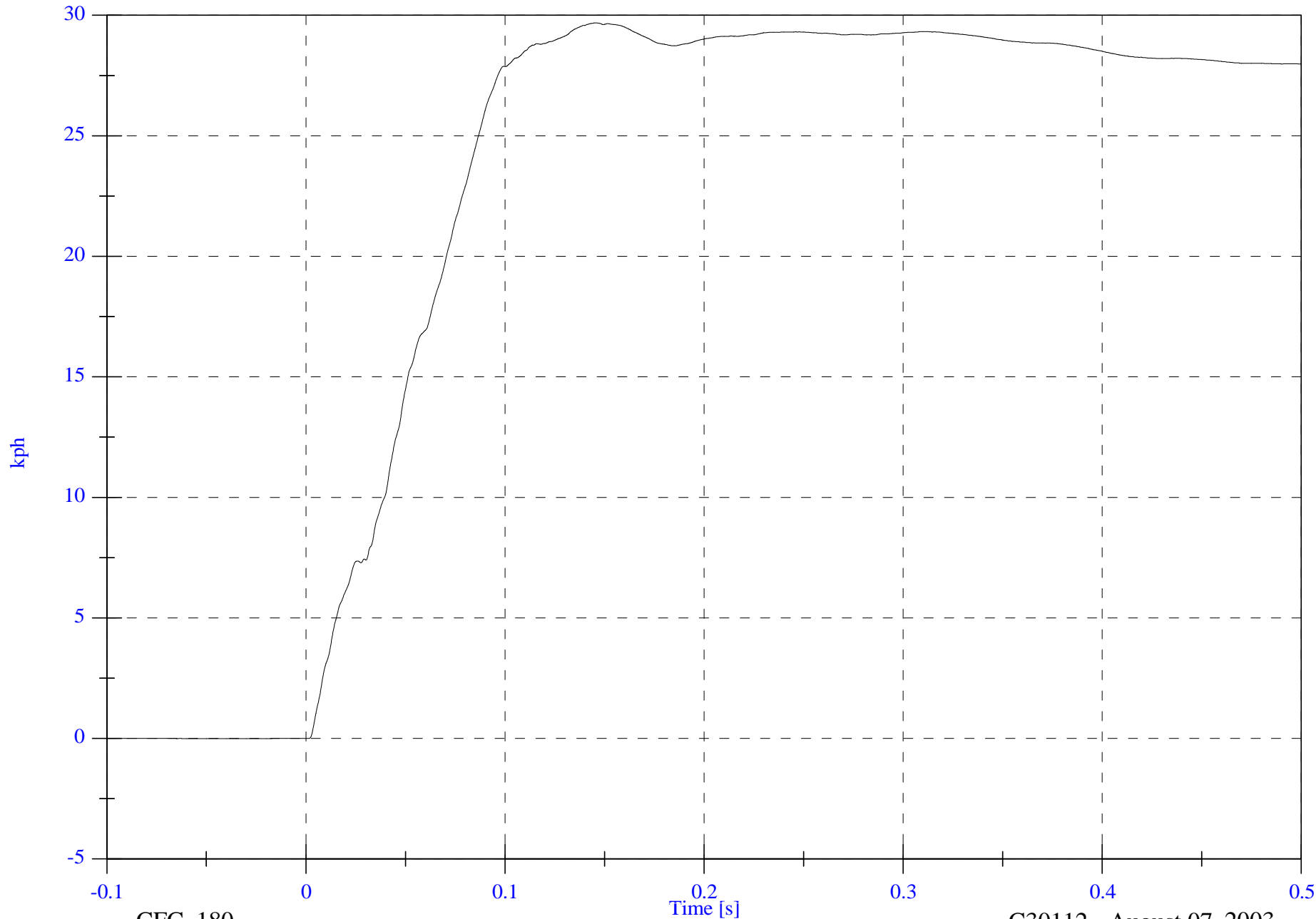
V2 Right X Member Ax Velocity

Max: 29.7 [kph] at 0.145 [s]

Min: -0.0 [kph] at -0.034 [s]

B-100

8655-F301-14R



CFC_180

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

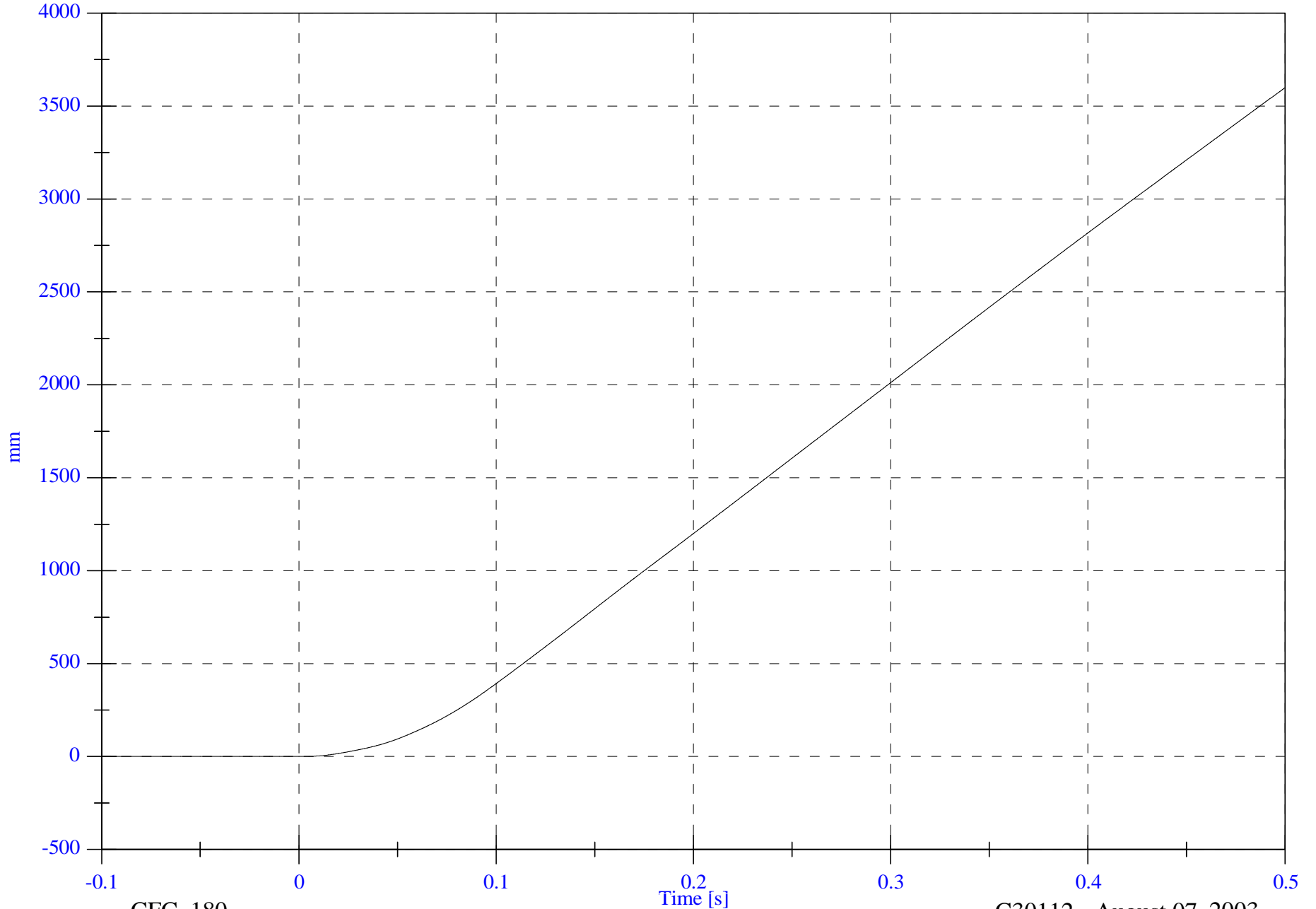
V2 Right X Member Ax Displacement

Max: 3598.2 [mm] at 0.500 [s]

Min: -0.0 [mm] at -0.010 [s]

B-101

8655-F301-14R



CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

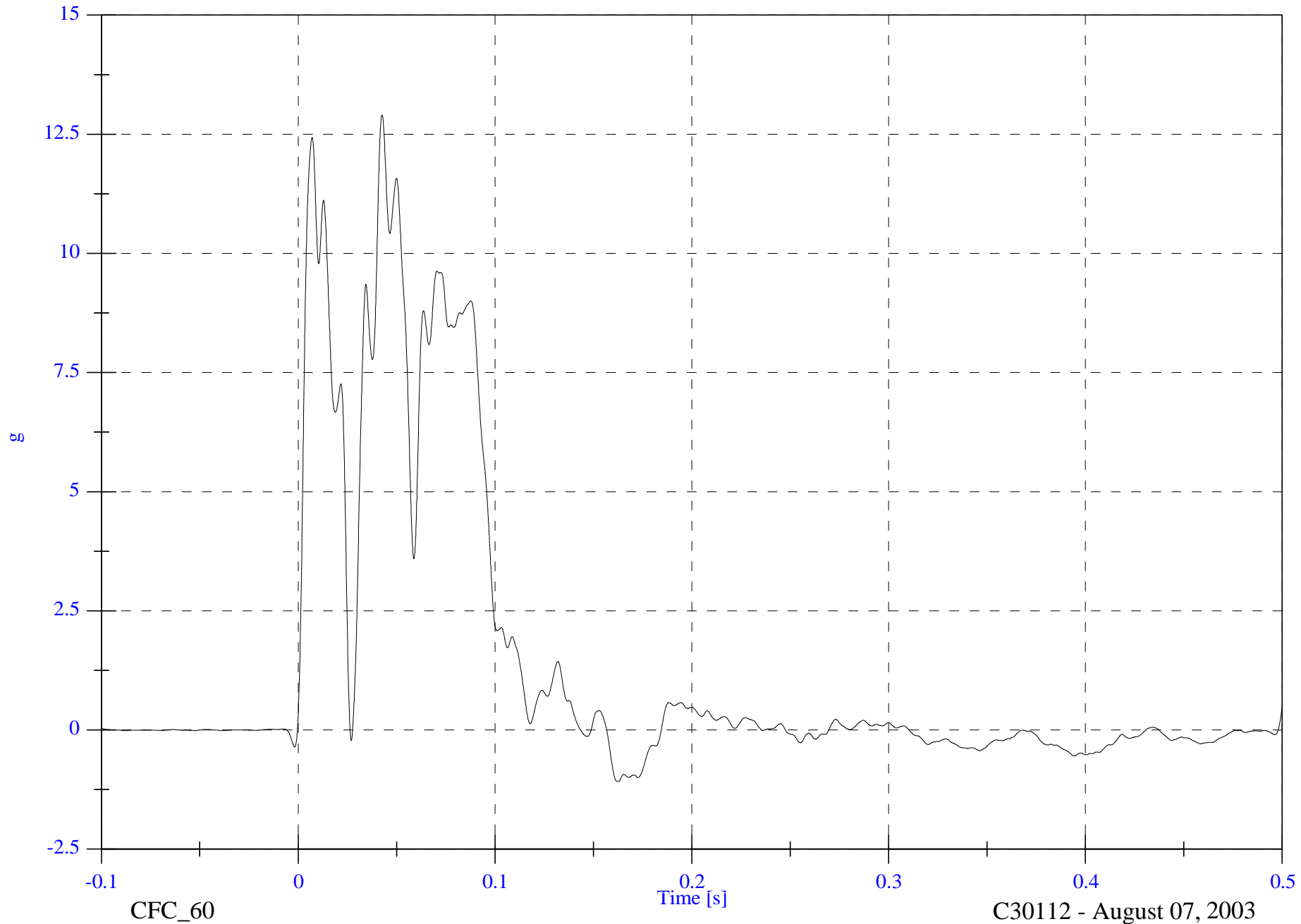
V2 Right X Member Red Ax

Max: 12.9 [g] at 0.043 [s]

Min: -1.1 [g] at 0.162 [s]

B-102

8655-F301-14R

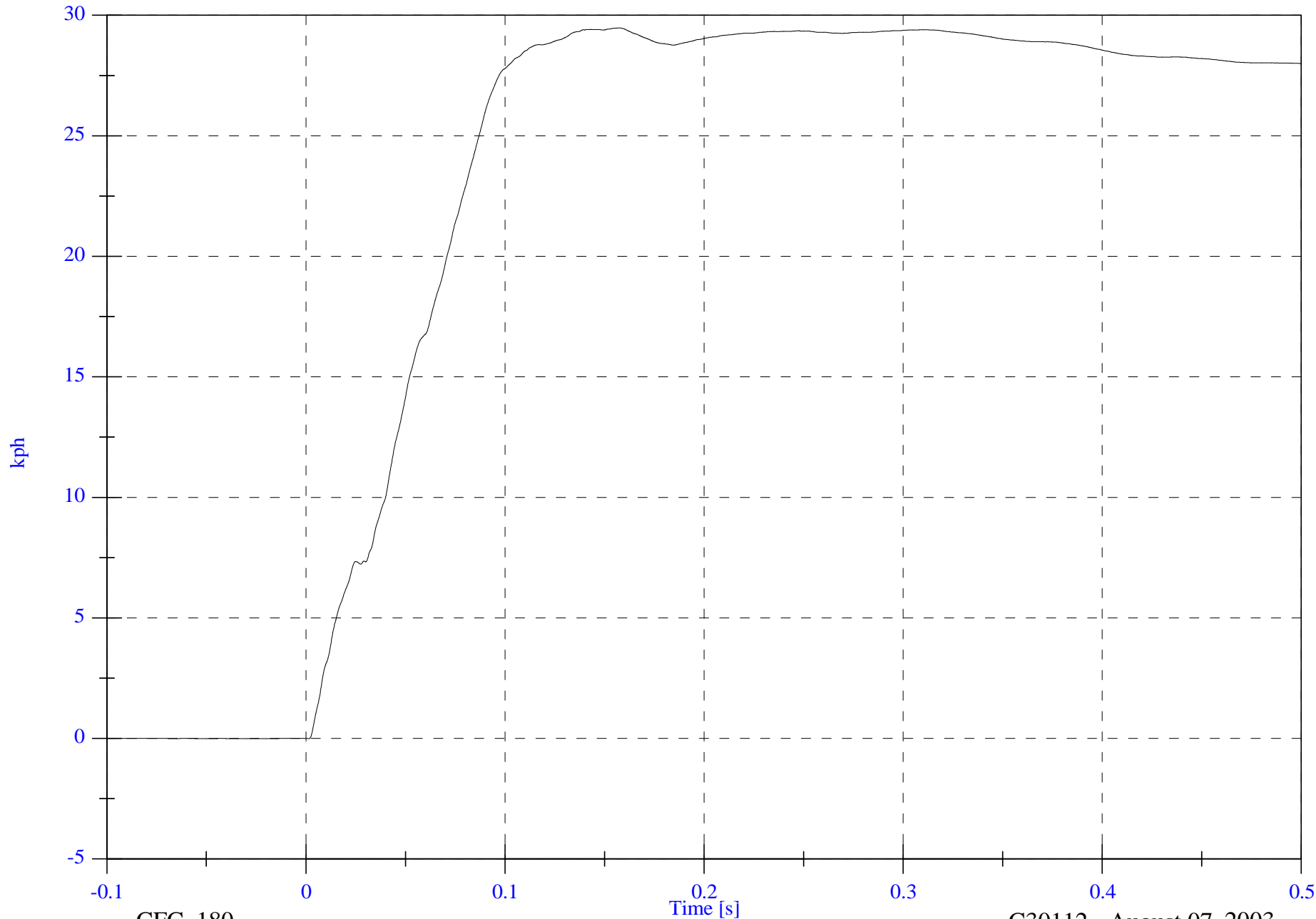


FMVSS 301 Test 5 - 2003 Saturn Ion

Max: 29.5 [kph] at 0.157 [s]

V2 Right X Member Red Ax Velocity

Min: -0.0 [kph] at -0.019 [s]



B-103

8655-F301-14R

CFC_180

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

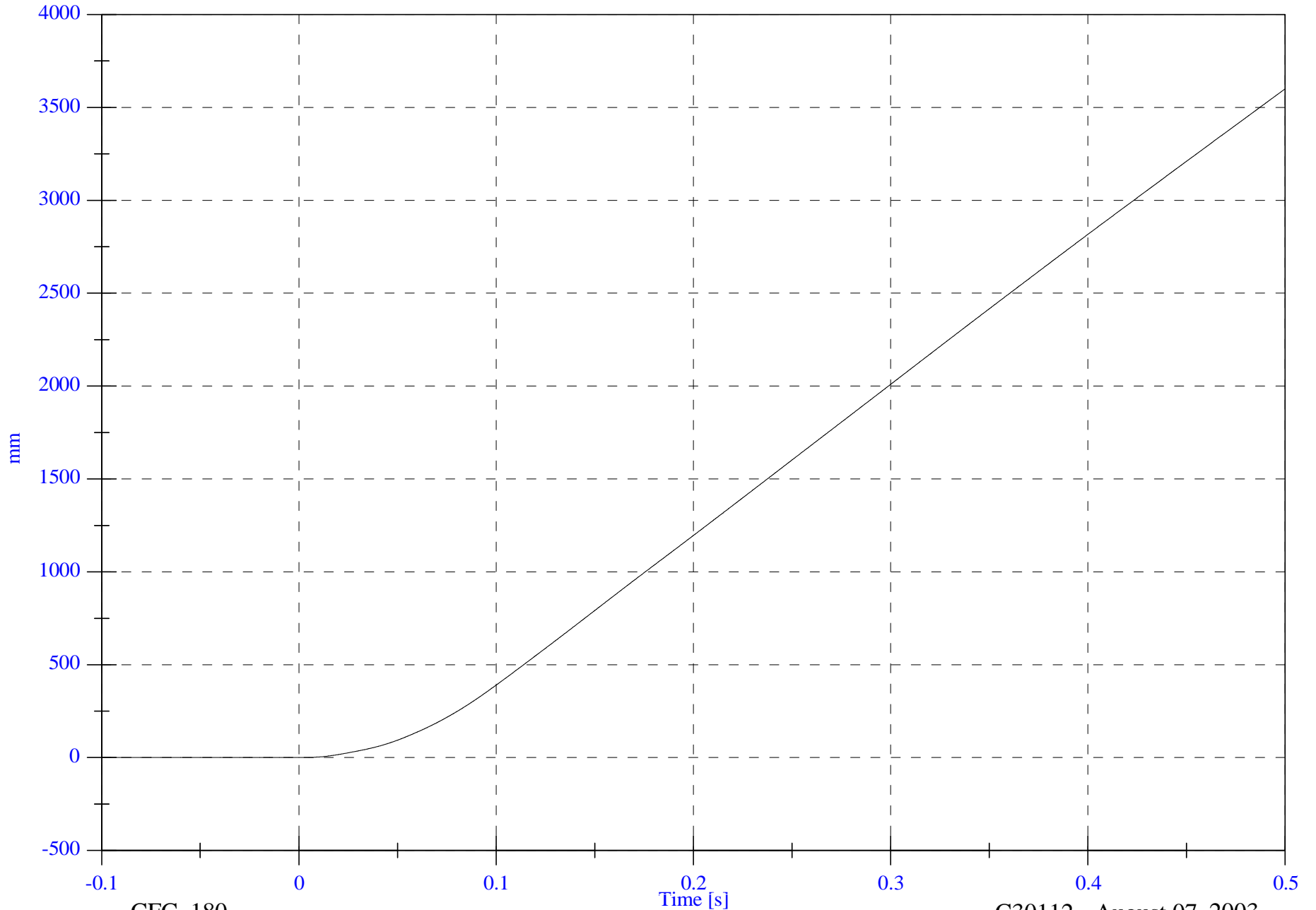
V2 Right X Member Red Ax Displacement

Max: 3598.7 [mm] at 0.500 [s]

Min: -0.0 [mm] at -0.010 [s]

B-104

8655-F301-14R



CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

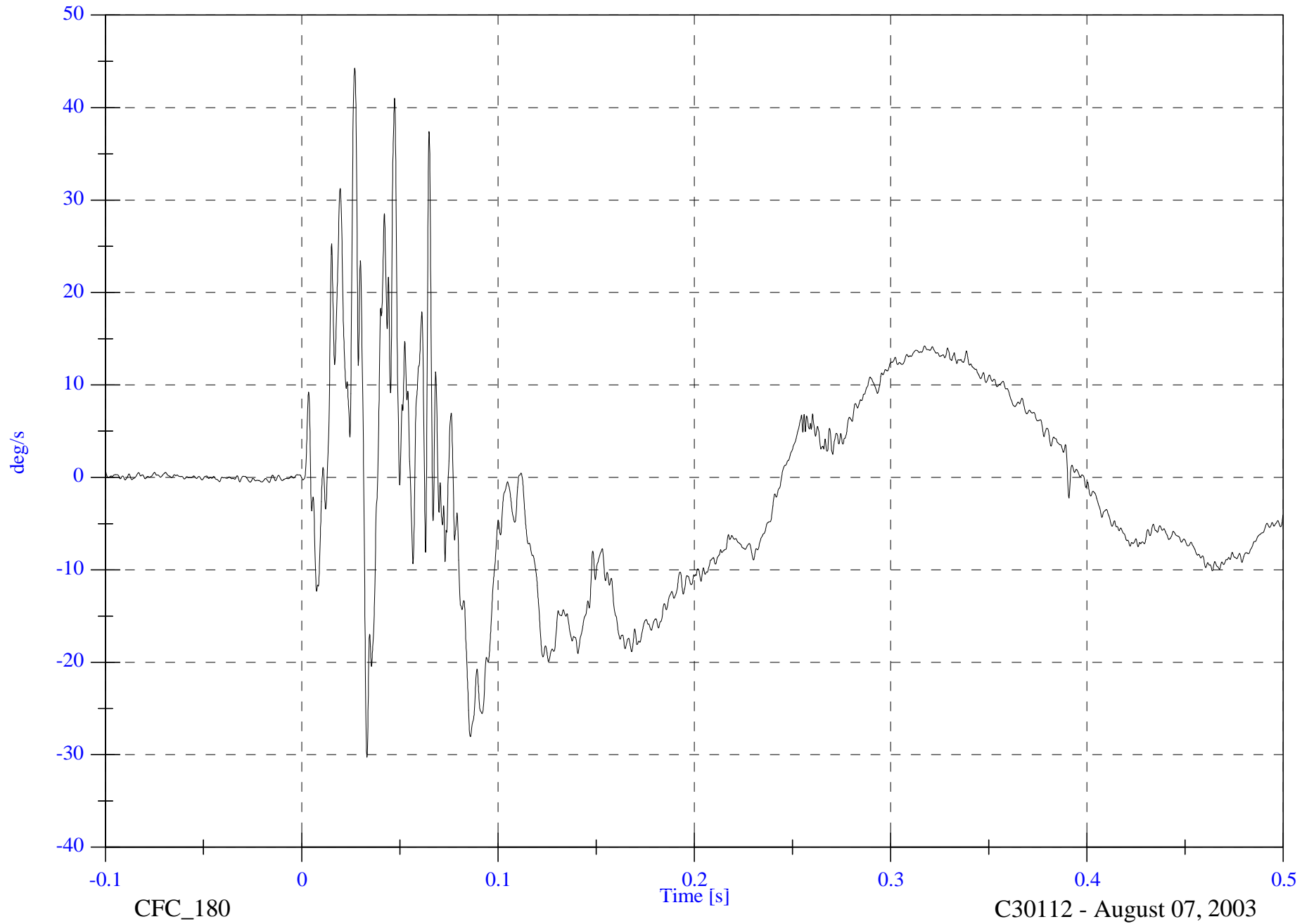
V2 Left Front Sill AVy

Max: 44.3 [deg/s] at 0.027 [s]

Min: -30.3 [deg/s] at 0.033 [s]

B-105

8655-F301-14R



CFC_180

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

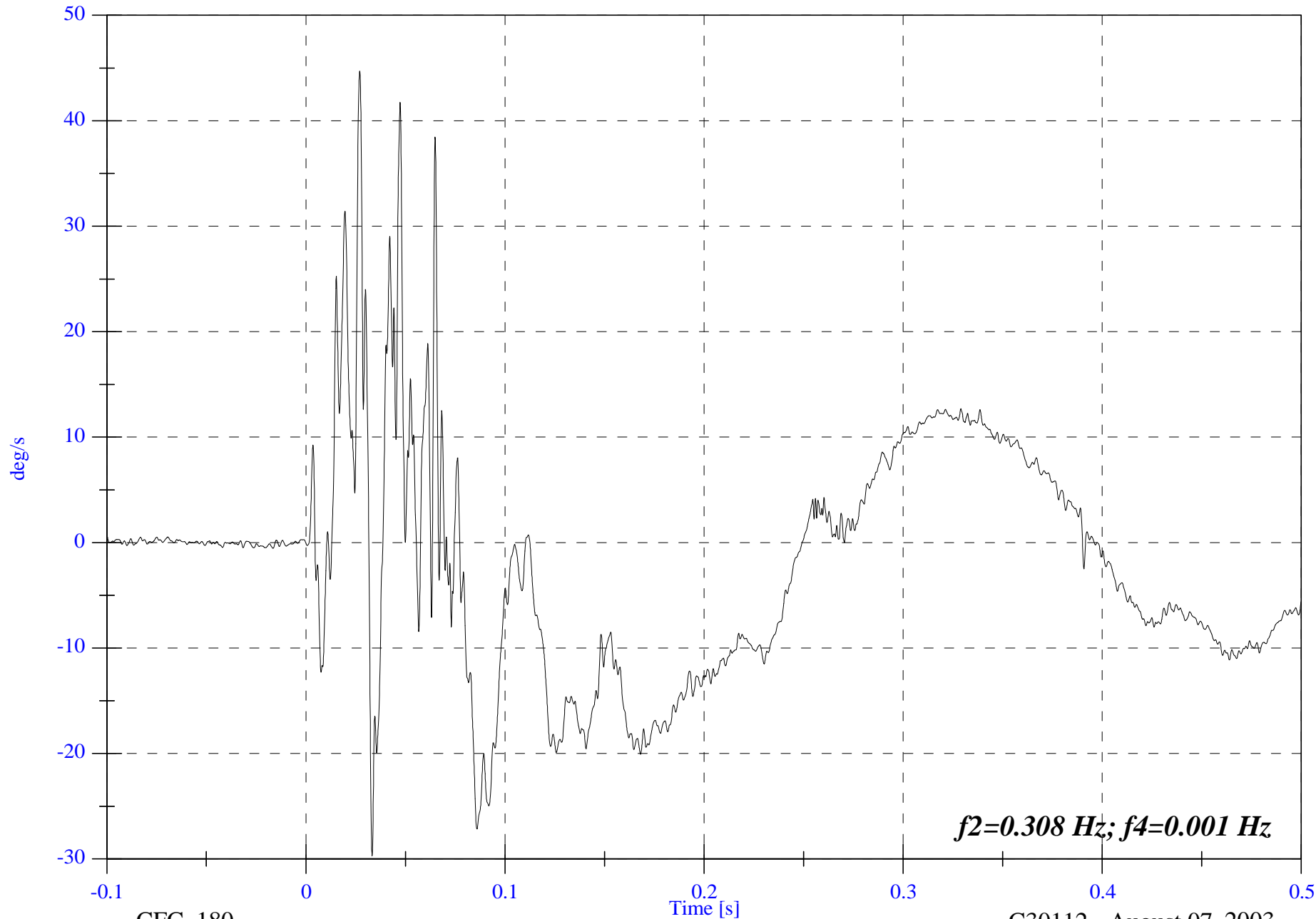
V2 Left Front Sill Comp AVy

Max: 44.7 [deg/s] at 0.027 [s]

Min: -29.7 [deg/s] at 0.033 [s]

B-106

8655-F301-14R



f2=0.308 Hz; f4=0.001 Hz

CFC_180

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

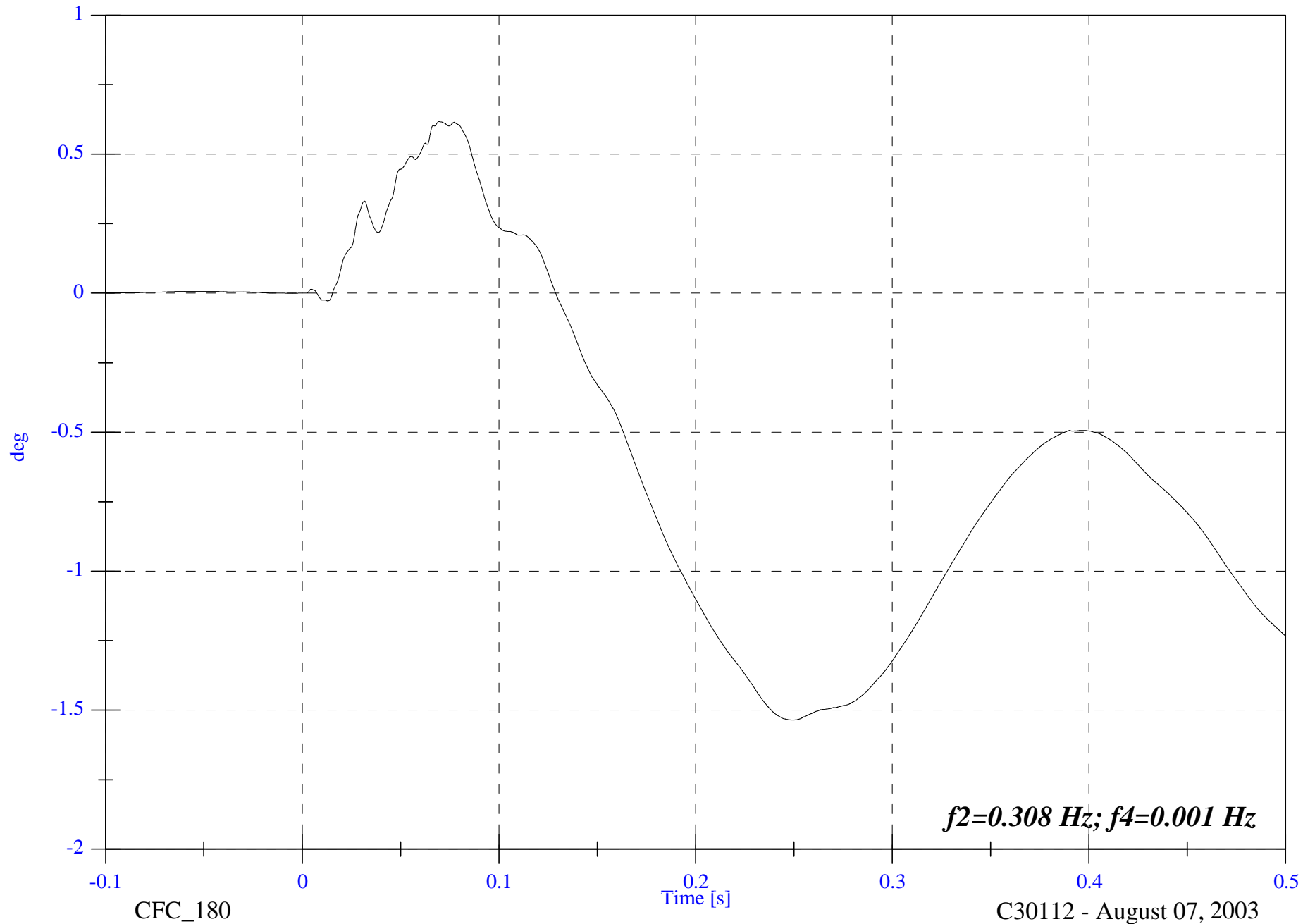
V2 Left Front Sill Comp ADy

Max: 0.6 [deg] at 0.069 [s]

Min: -1.5 [deg] at 0.249 [s]

B-107

8655-F301-14R



f2=0.308 Hz; f4=0.001 Hz

CFC_180

C30112 - August 07, 2003

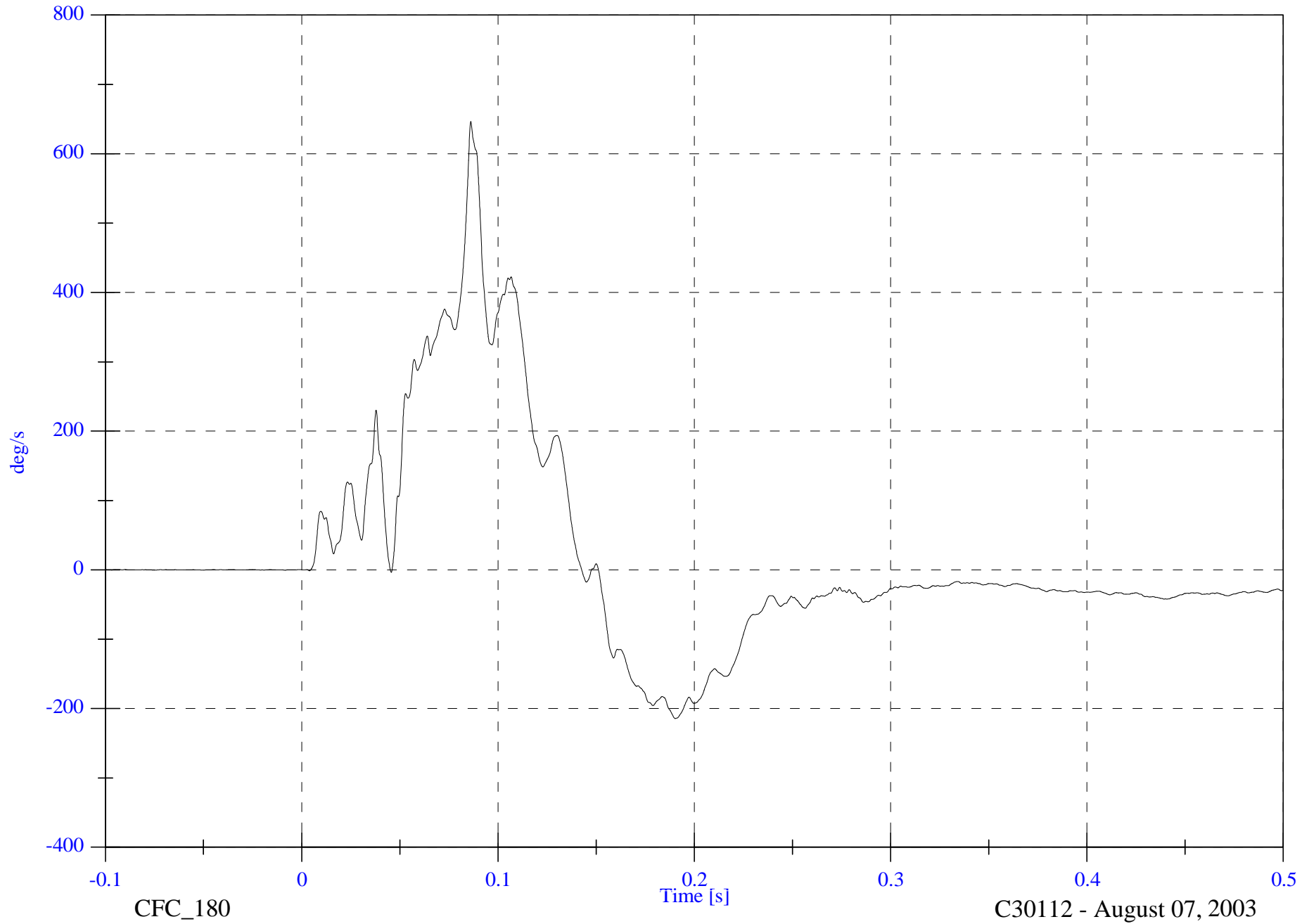
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Left Seat AVy

Max: 646.6 [deg/s] at 0.086 [s]
Min: -214.3 [deg/s] at 0.190 [s]

B-108

8655-F301-14R



CFC_180

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

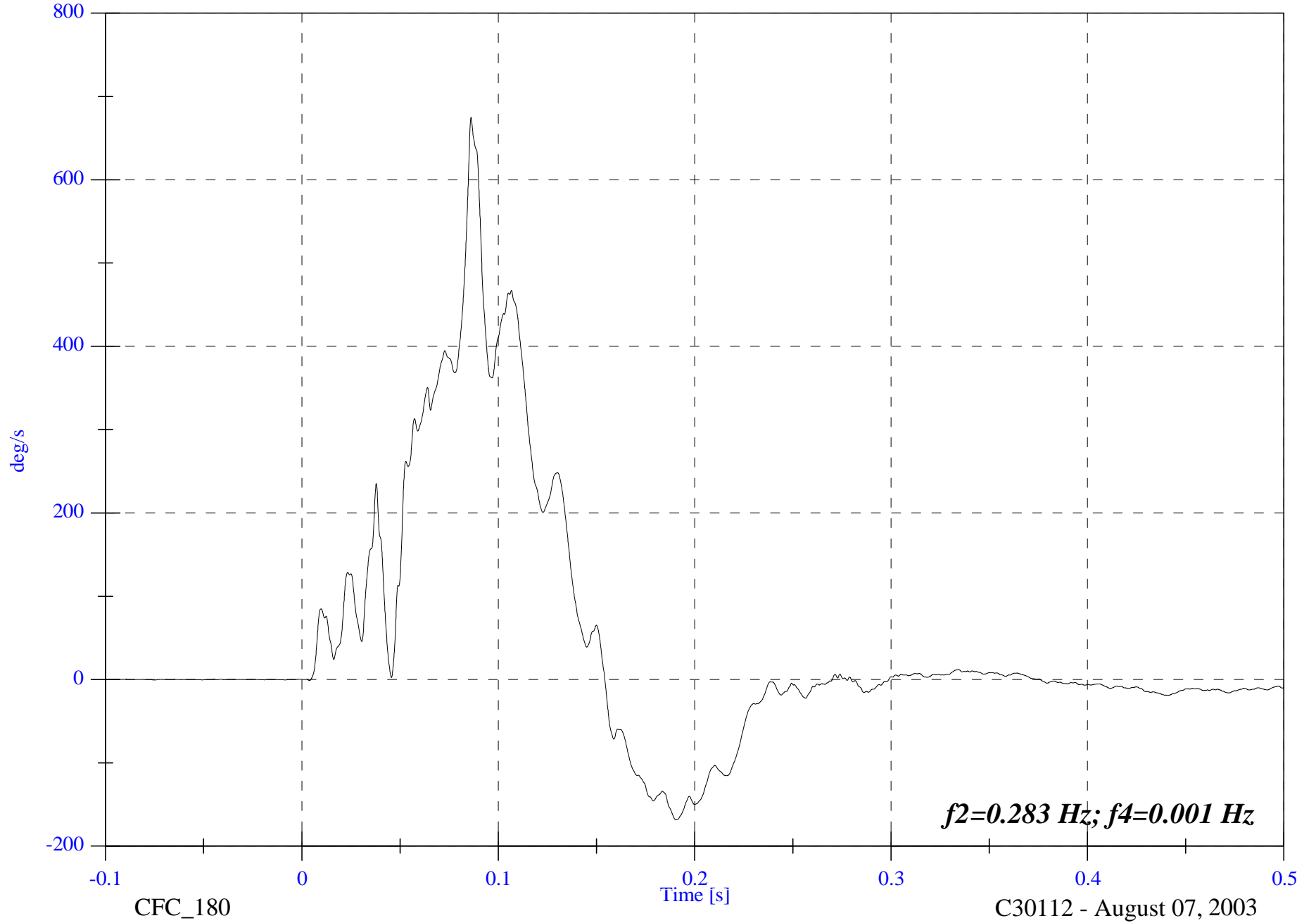
V2P1 Left Seat Comp AVy

Max: 675.1 [deg/s] at 0.086 [s]

Min: -168.3 [deg/s] at 0.190 [s]

B-109

8655-F301-14R



CFC_180

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

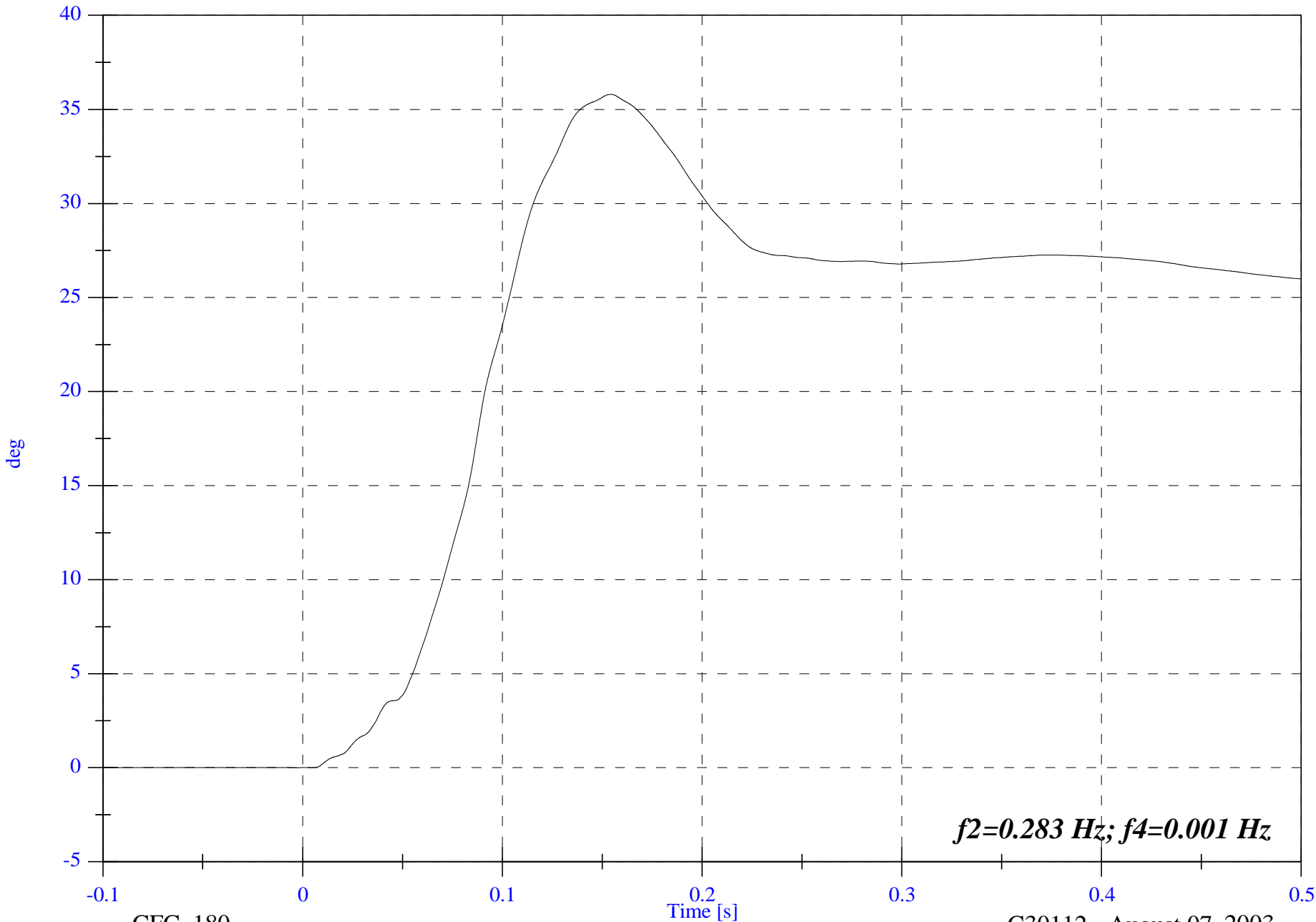
V2P1 Left Seat Comp ADy

Max: 35.8 [deg] at 0.154 [s]

Min: -0.0 [deg] at 0.005 [s]

B-110

8655-F301-14R



f2=0.283 Hz; f4=0.001 Hz

CFC_180

C30112 - August 07, 2003

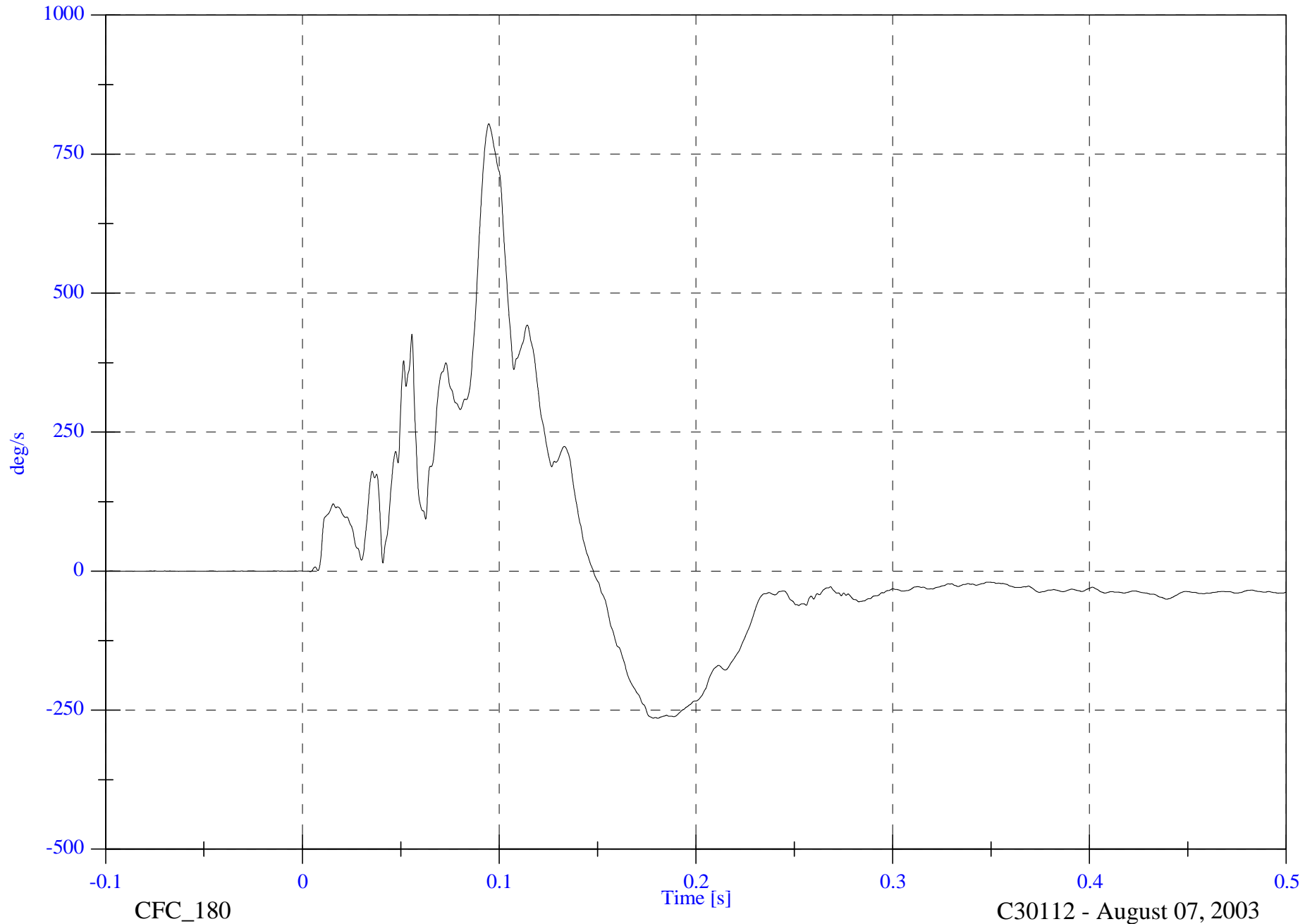
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P1 Right Seat AVy

Max: 804.7 [deg/s] at 0.095 [s]
Min: -264.5 [deg/s] at 0.181 [s]

B-111

8655-F301-14R



CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

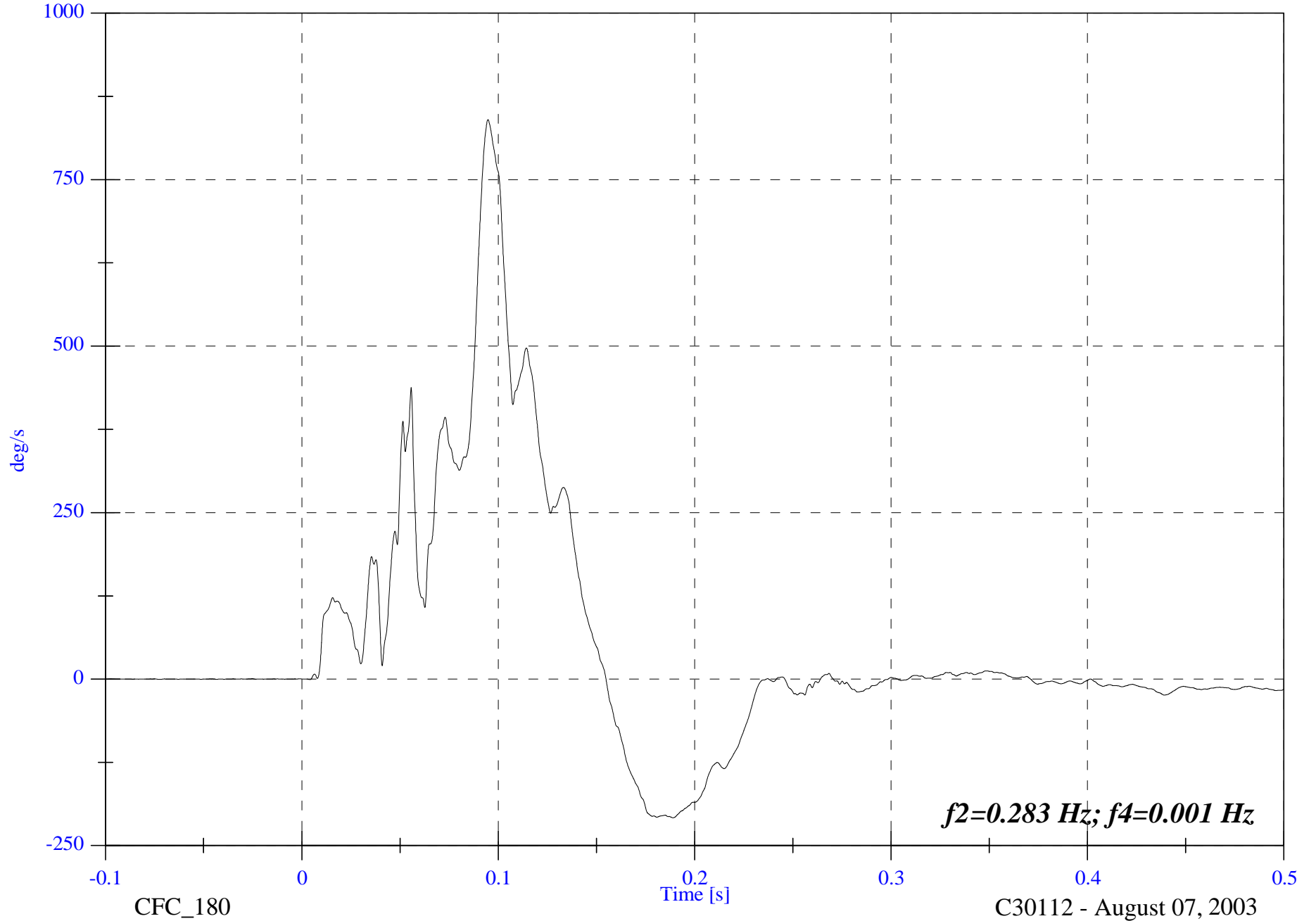
V2P1 Right Seat Comp AVy

Max: 840.1 [deg/s] at 0.095 [s]

Min: -208.2 [deg/s] at 0.189 [s]

B-112

8655-F301-14R



CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

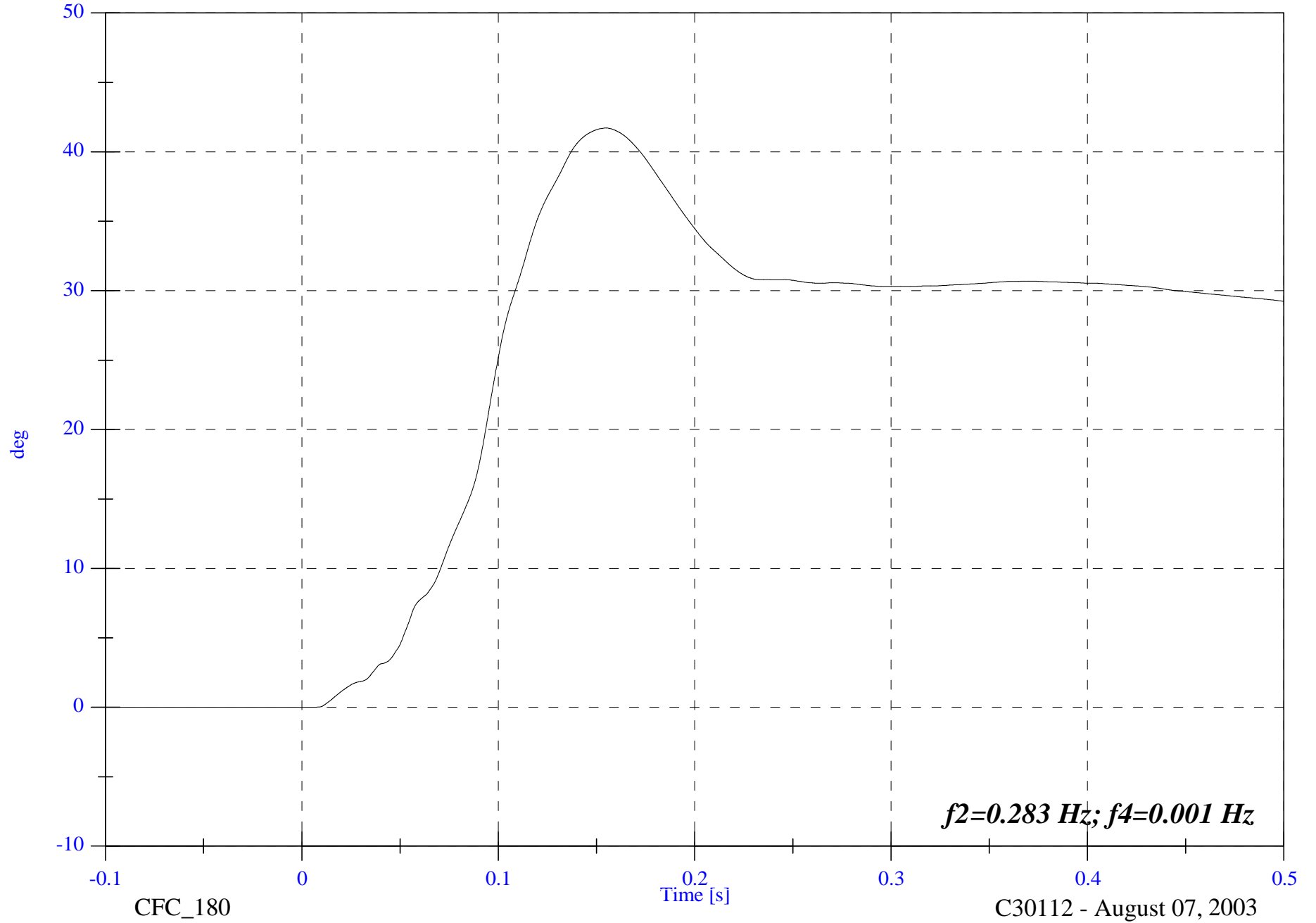
V2P1 Right Seat Comp ADy

Max: 41.7 [deg] at 0.155 [s]

Min: -0.0 [deg] at -0.036 [s]

B-113

8655-F301-14R



CFC_180

Time [s]

C30112 - August 07, 2003

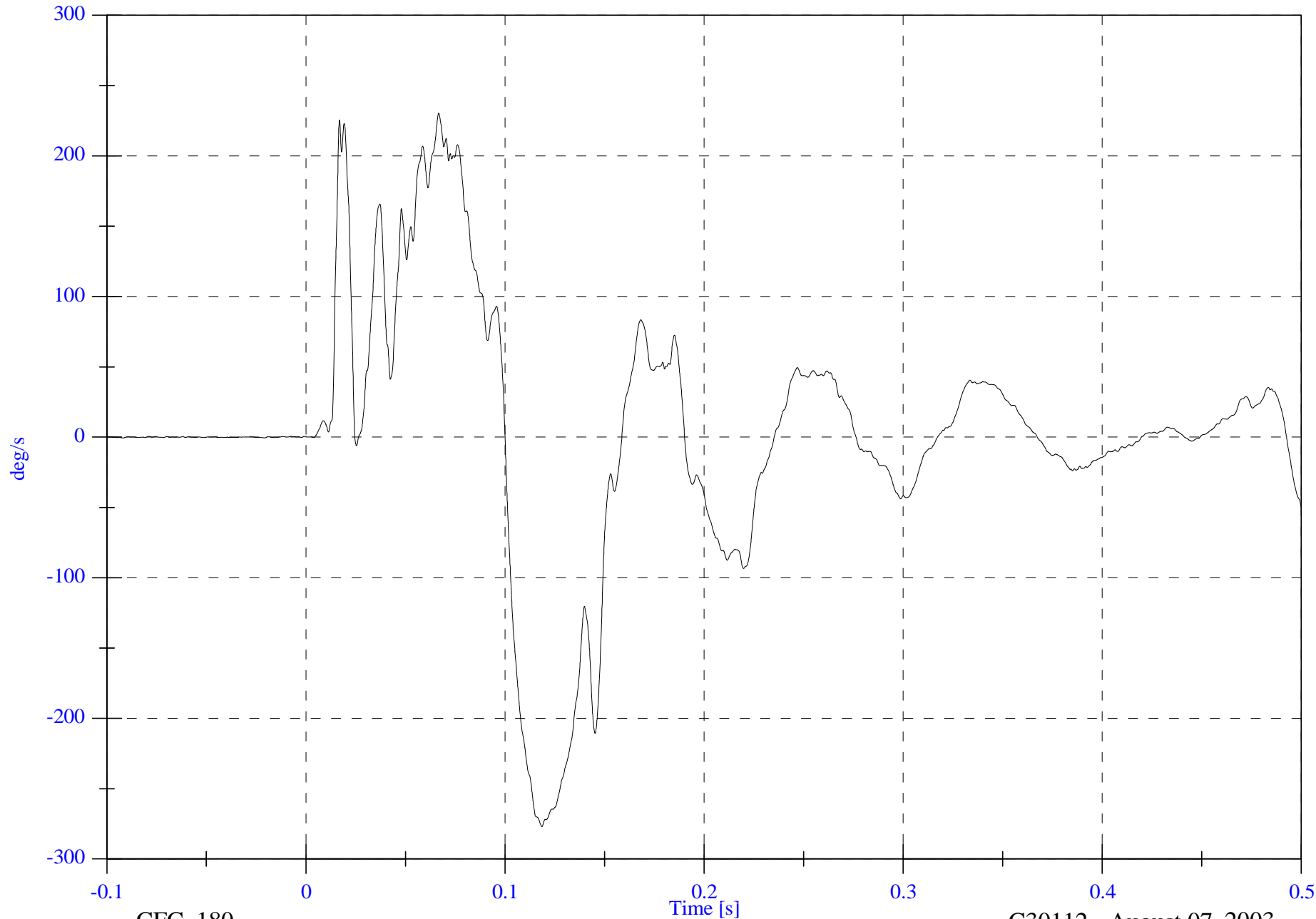
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Left Seat AVy

Max: 230.6 [deg/s] at 0.067 [s]
Min: -277.0 [deg/s] at 0.118 [s]

B-114

8655-F301-14R



CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

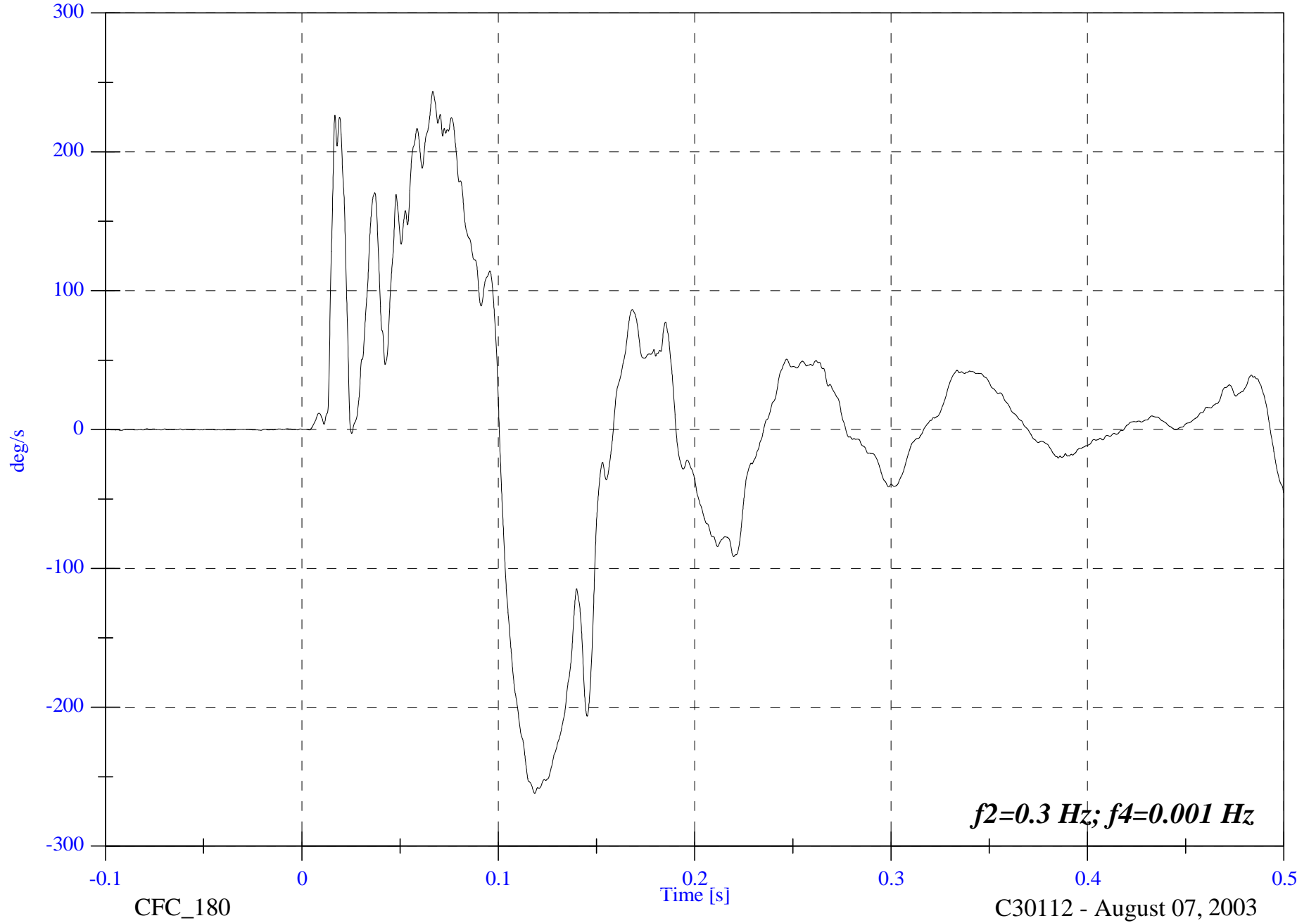
V2P2 Left Seat Comp AVy

Max: 243.6 [deg/s] at 0.067 [s]

Min: -262.1 [deg/s] at 0.119 [s]

B-115

8655-F301-14R



CFC_180

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

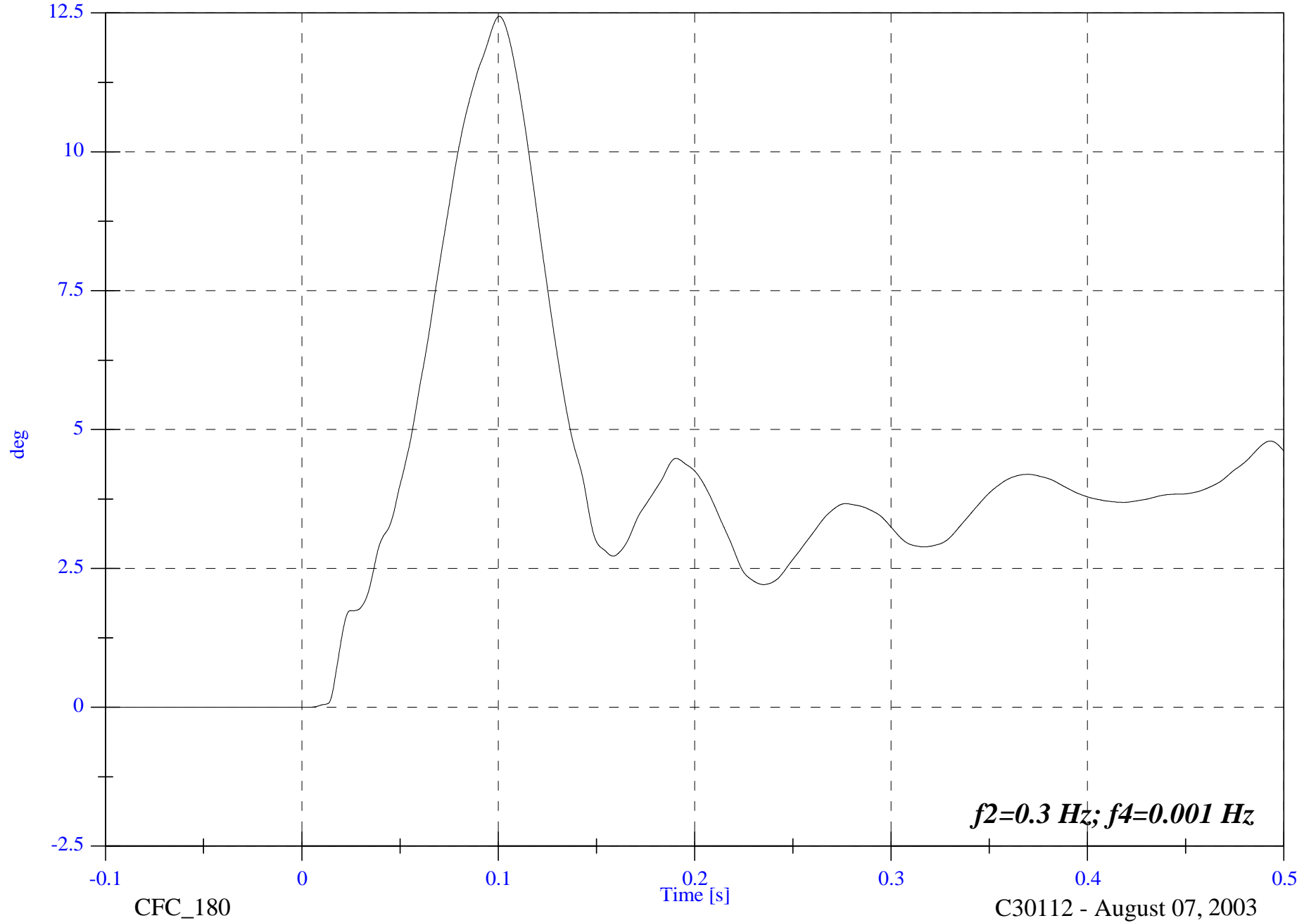
V2P2 Left Seat Comp ADy

Max: 12.4 [deg] at 0.100 [s]

Min: -0.0 [deg] at -0.080 [s]

B-116

8655-F301-14R



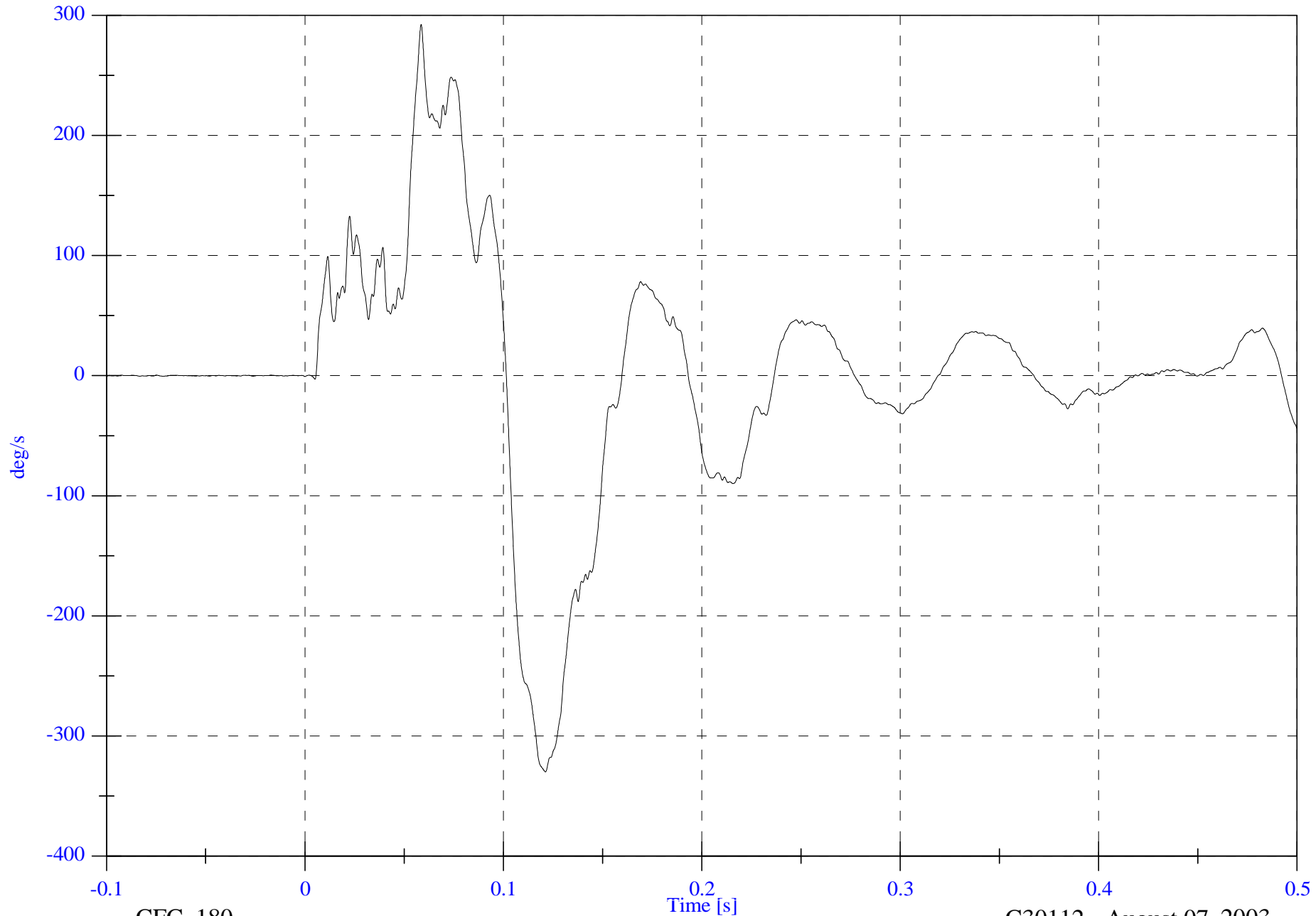
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Right Seat AVy

Max: 292.3 [deg/s] at 0.059 [s]
Min: -329.8 [deg/s] at 0.121 [s]

B-117

8655-F301-14R



CFC_180

C30112 - August 07, 2003

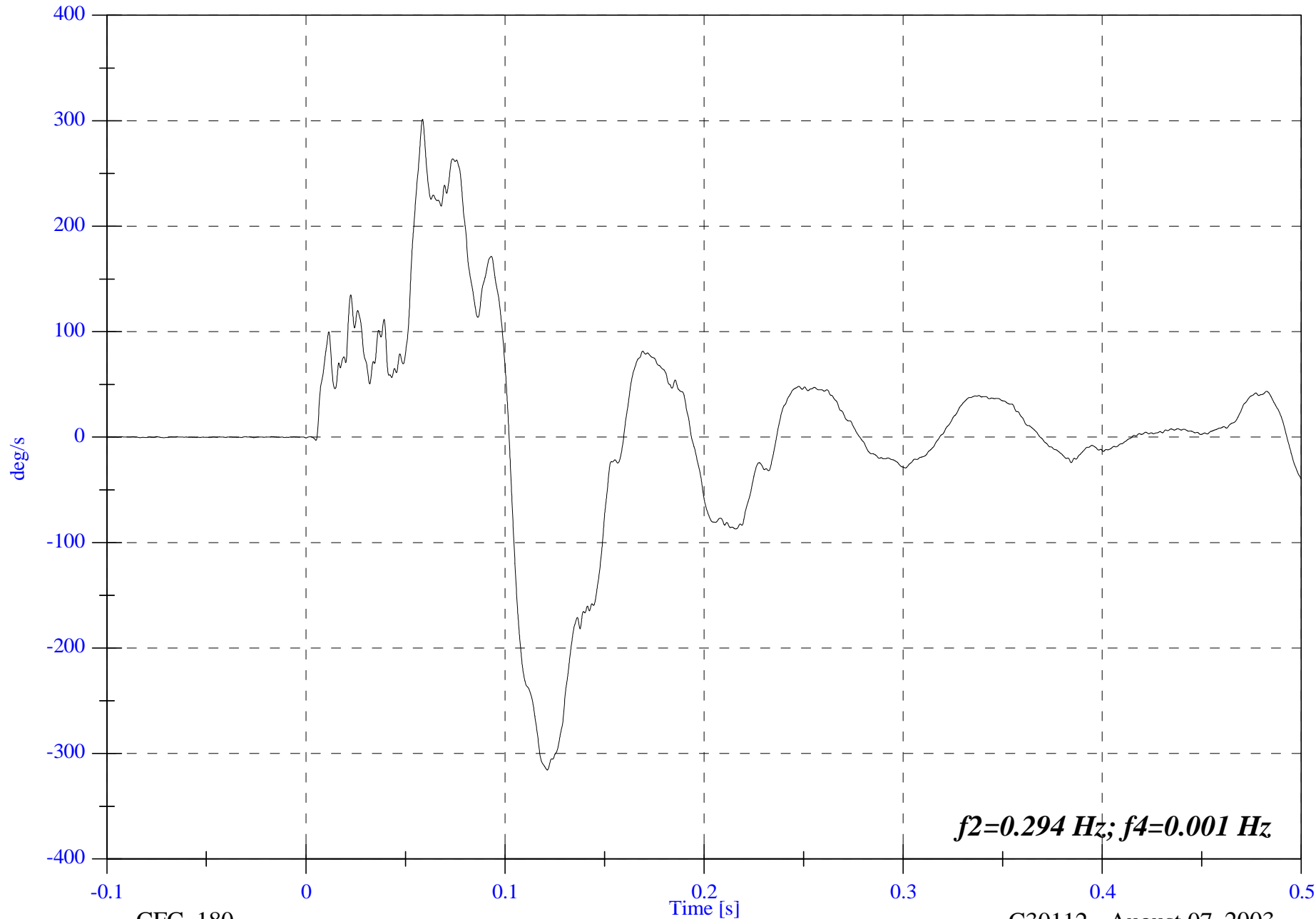
FMVSS 301 Test 5 - 2003 Saturn Ion

V2P2 Right Seat Comp AVy

Max: 301.4 [deg/s] at 0.059 [s]
Min: -315.6 [deg/s] at 0.121 [s]

B-118

8655-F301-14R



CFC_180

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

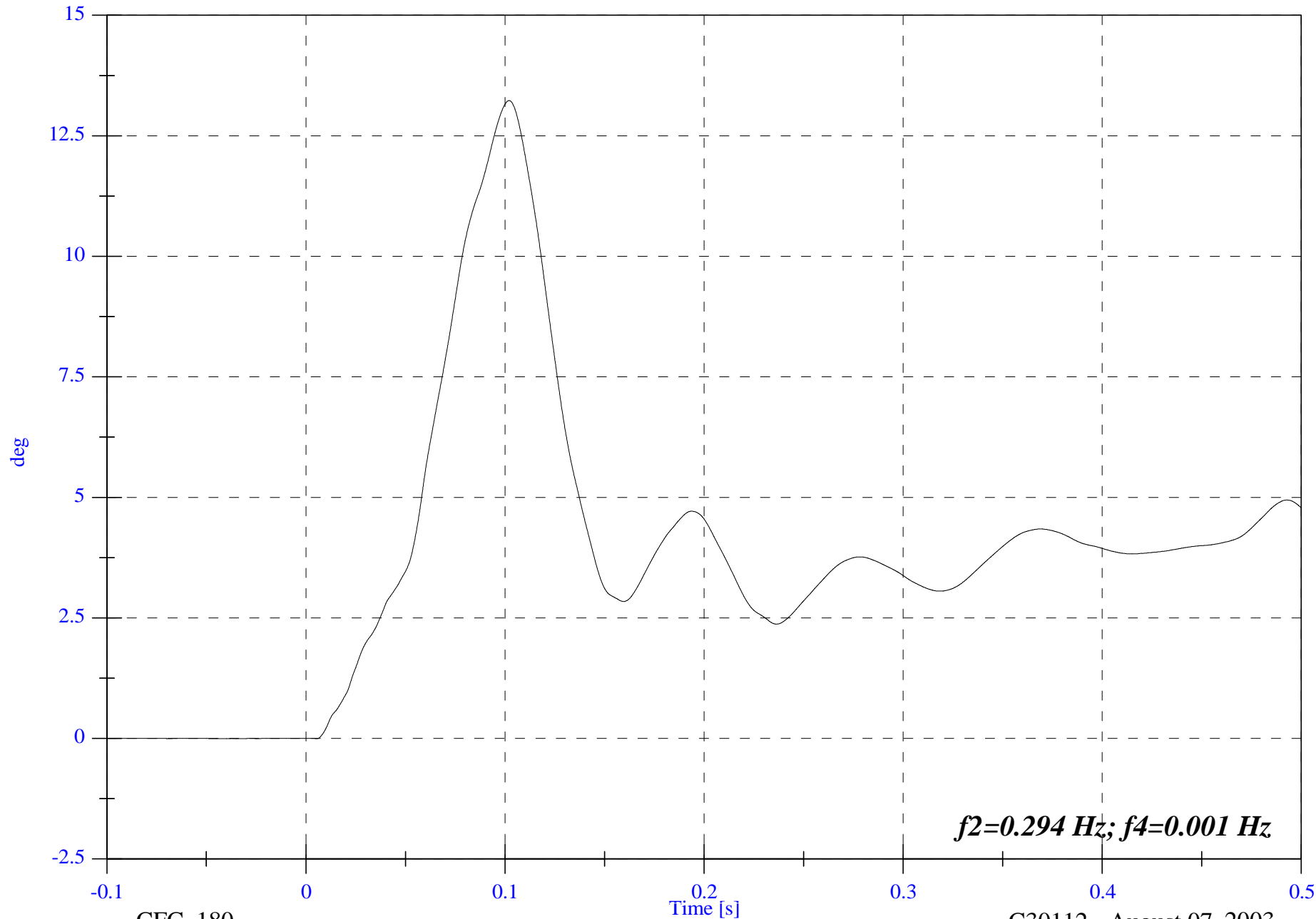
V2P2 Right Seat Comp ADy

Max: 13.2 [deg] at 0.102 [s]

Min: -0.0 [deg] at 0.006 [s]

B-119

8655-F301-14R



CFC_180

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

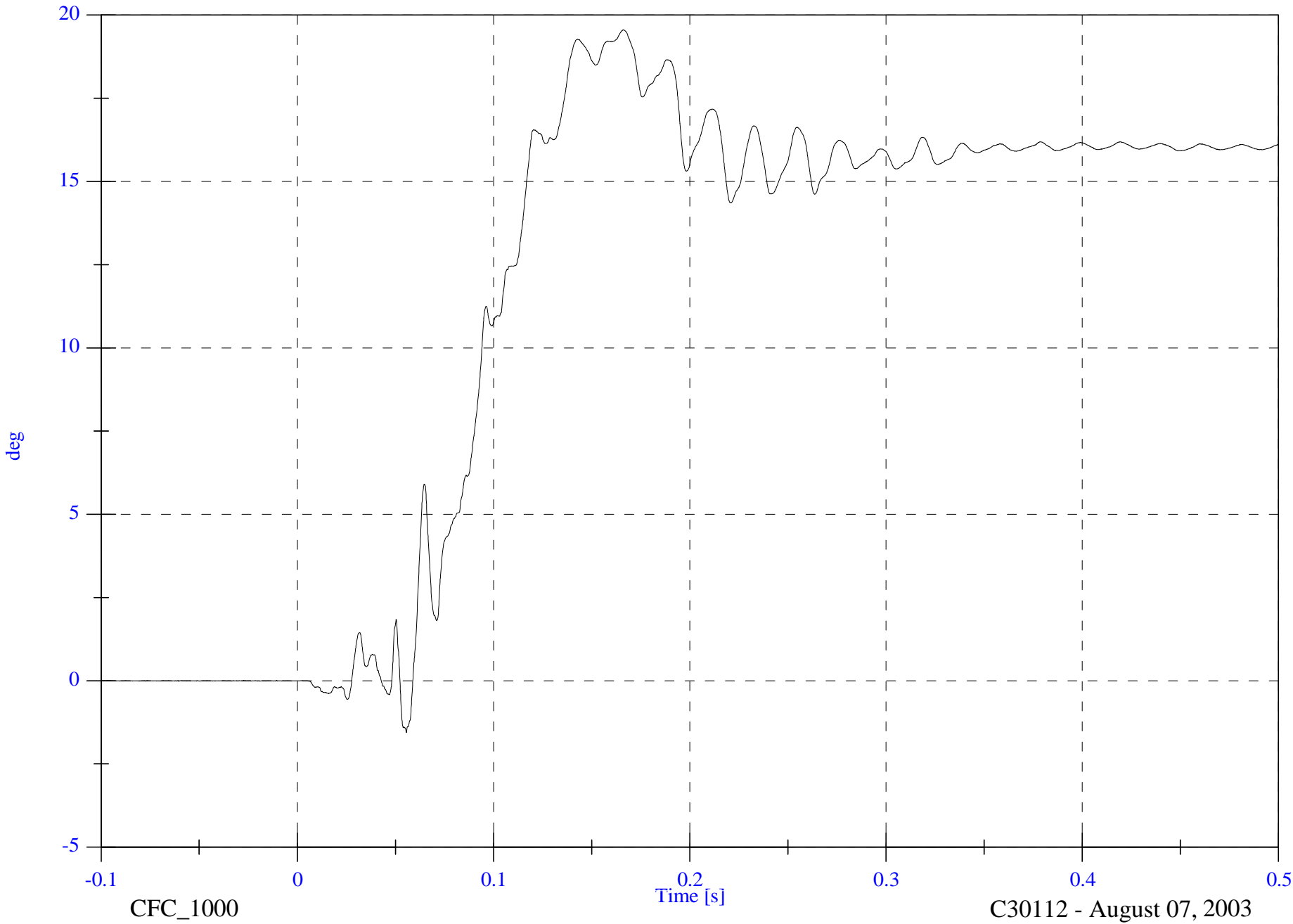
V2P1 Left Link ADy

Max: 19.6 [deg] at 0.166 [s]

Min: -1.6 [deg] at 0.056 [s]

B-120

8655-F301-14R



CFC_1000

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

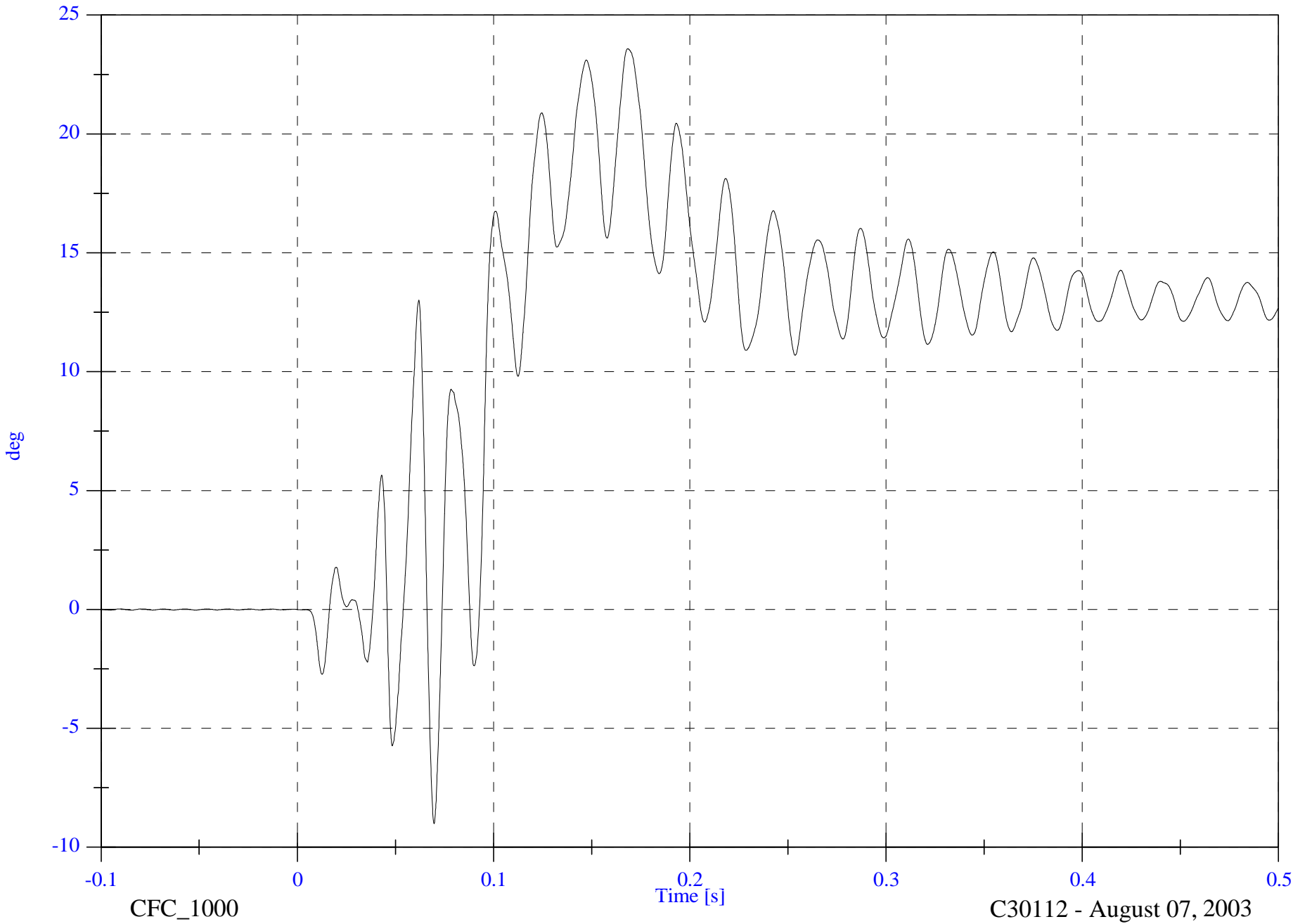
V2P1 Right Link ADy

Max: 23.6 [deg] at 0.168 [s]

Min: -9.0 [deg] at 0.070 [s]

B-121

8655-F301-14R



CFC_1000

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

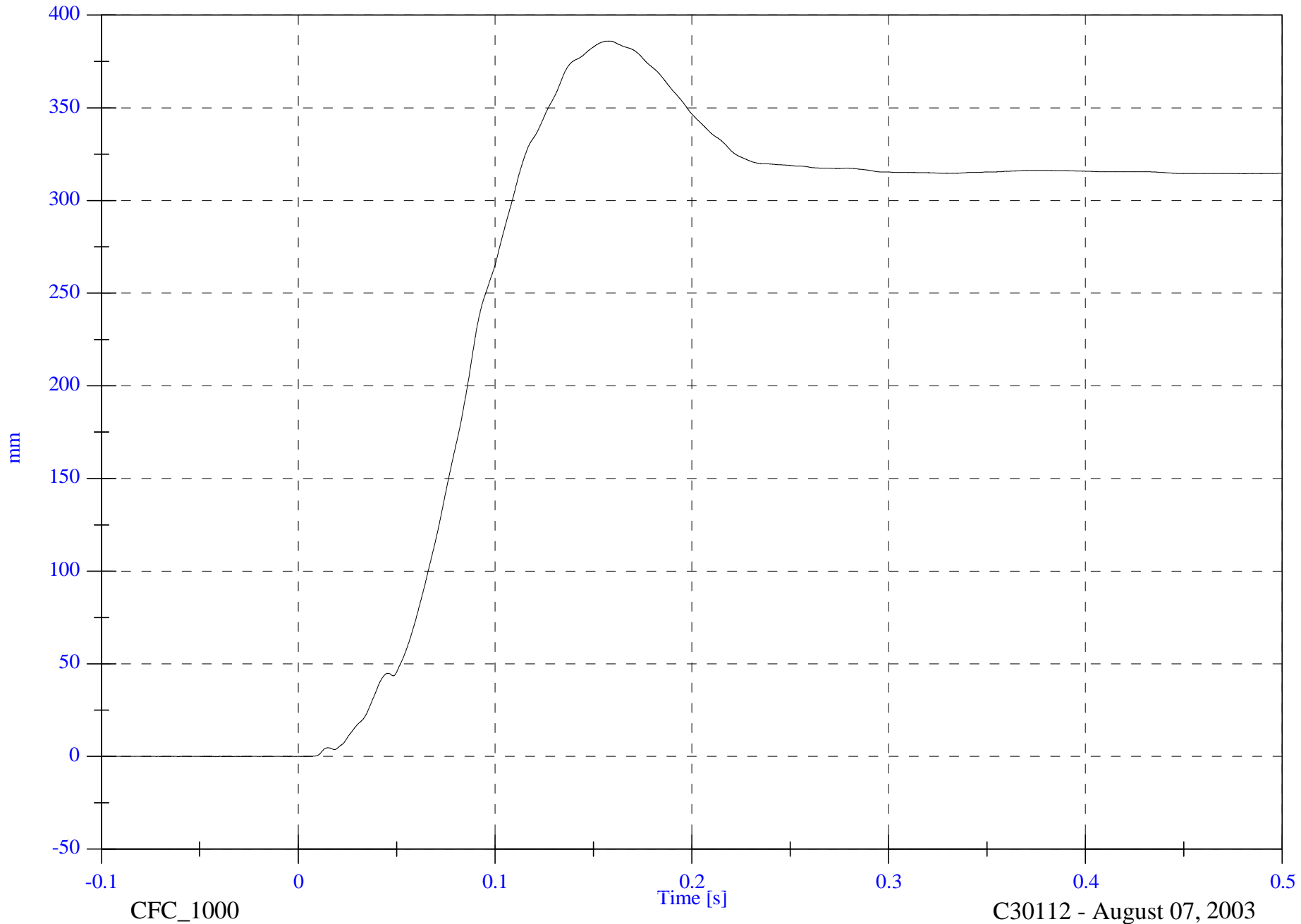
Max: 386.0 [mm] at 0.158 [s]

V2P1 Left Span Bar D

Min: -0.0 [mm] at -0.060 [s]

B-122

8655-F301-14R



CFC_1000

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

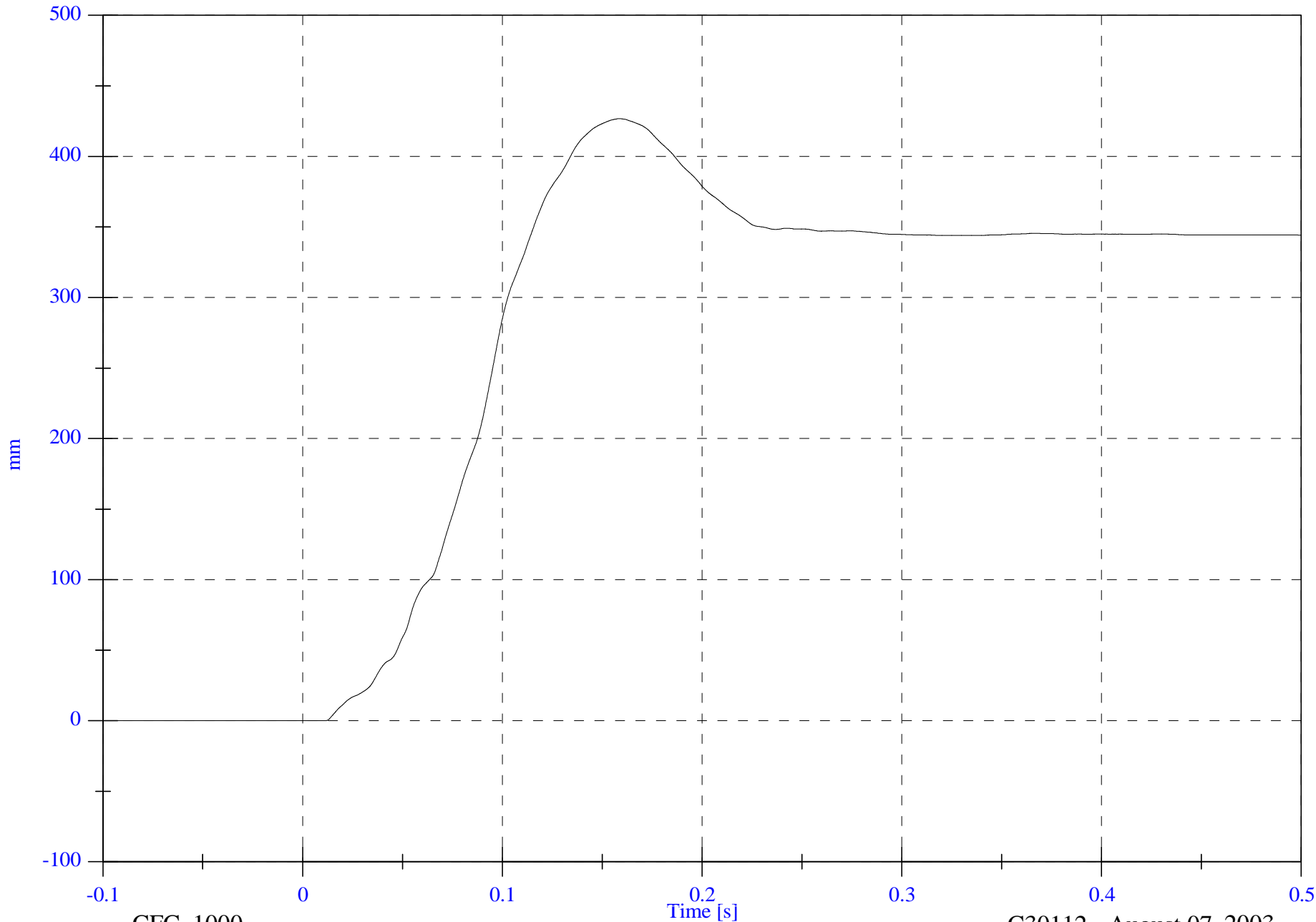
V2P1 Right Span Bar D

Max: 426.8 [mm] at 0.158 [s]

Min: -0.1 [mm] at 0.011 [s]

B-123

8655-F301-14R



CFC_1000

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

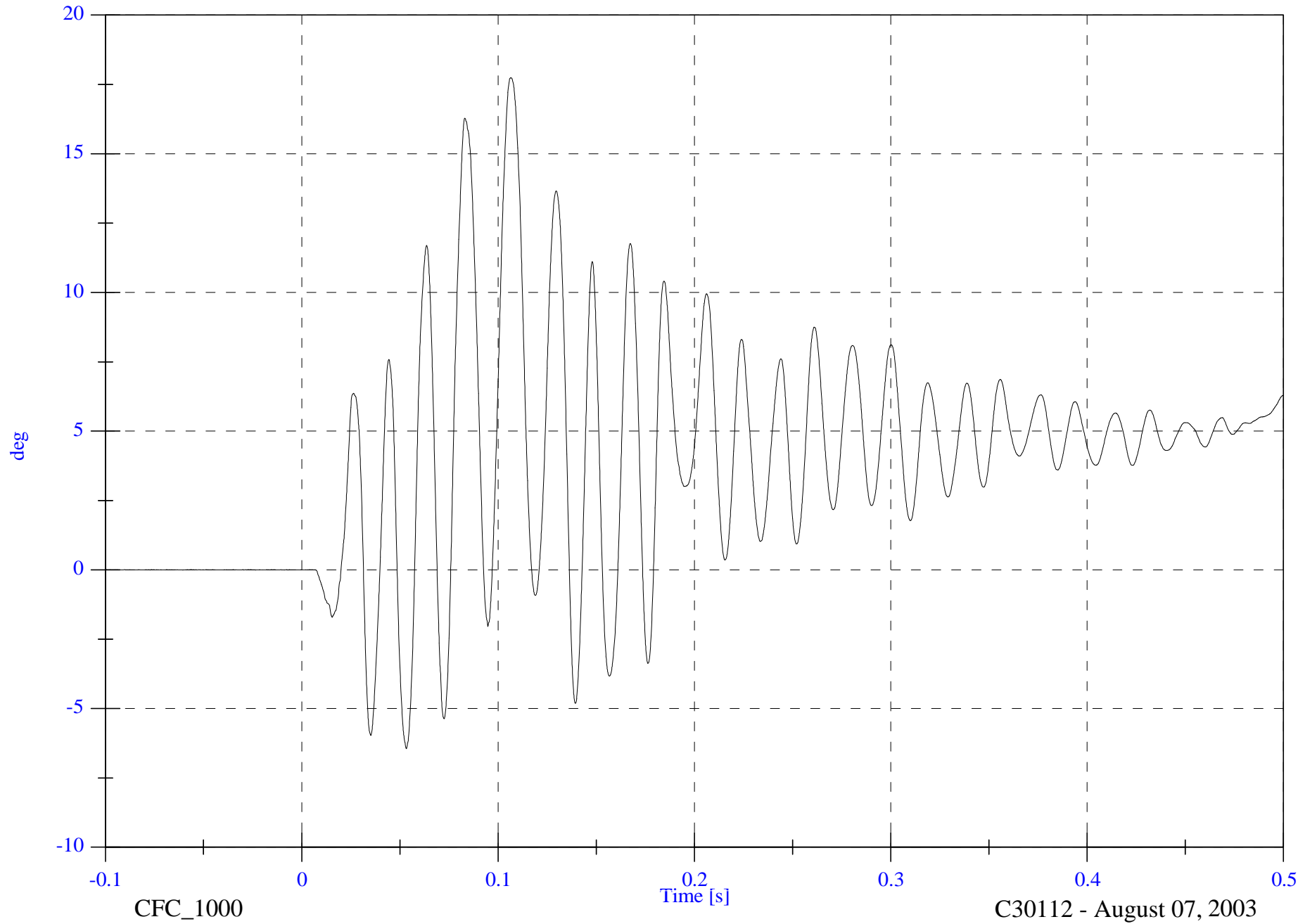
V2P2 Left Link ADy

Max: 17.7 [deg] at 0.106 [s]

Min: -6.4 [deg] at 0.053 [s]

B-124

8655-F301-14R



FMVSS 301 Test 5 - 2003 Saturn Ion

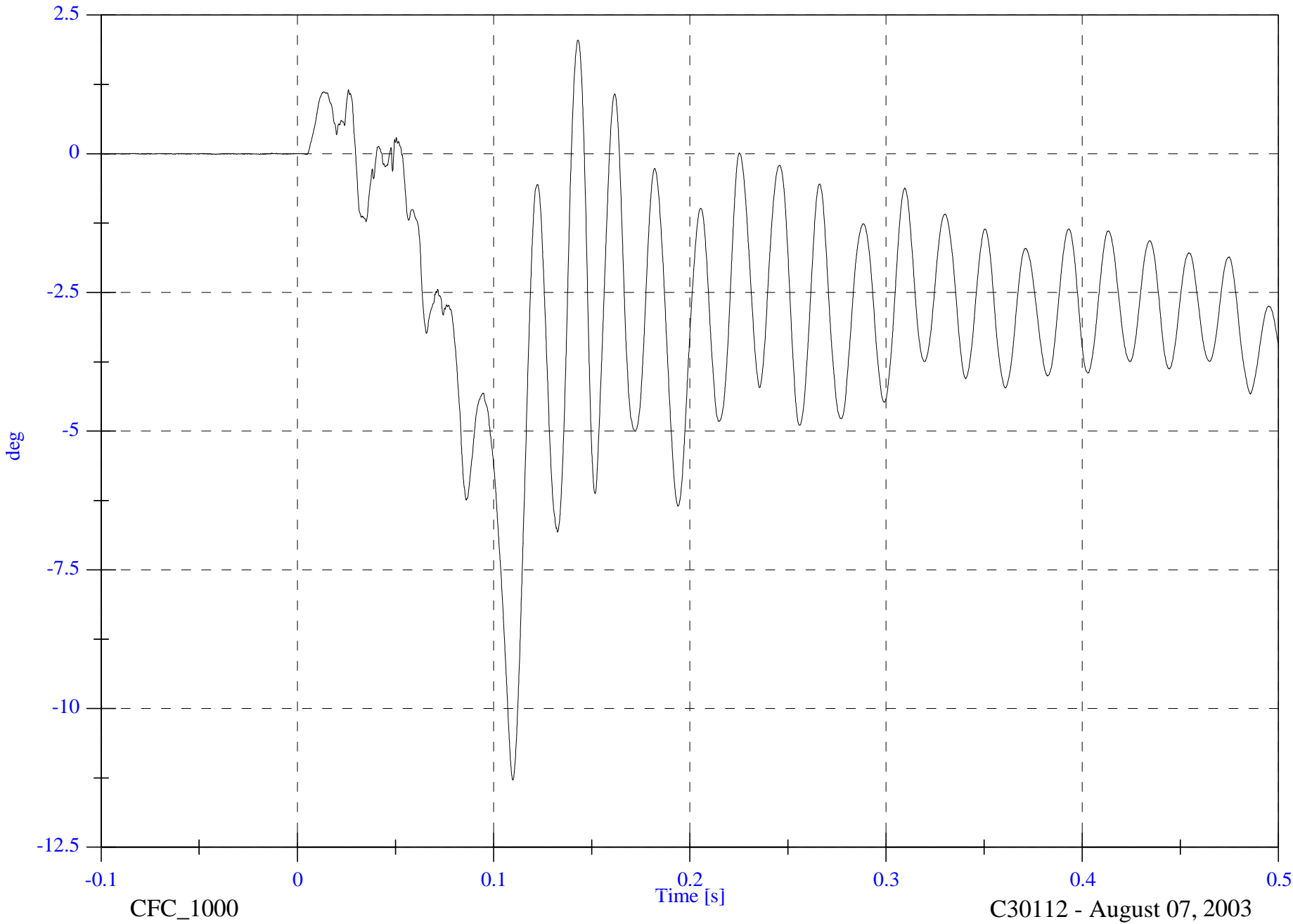
V2P2 Right Link ADy

Max: 2.0 [deg] at 0.143 [s]

Min: -11.3 [deg] at 0.110 [s]

B-125

8655-F301-14R



CFC_1000

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

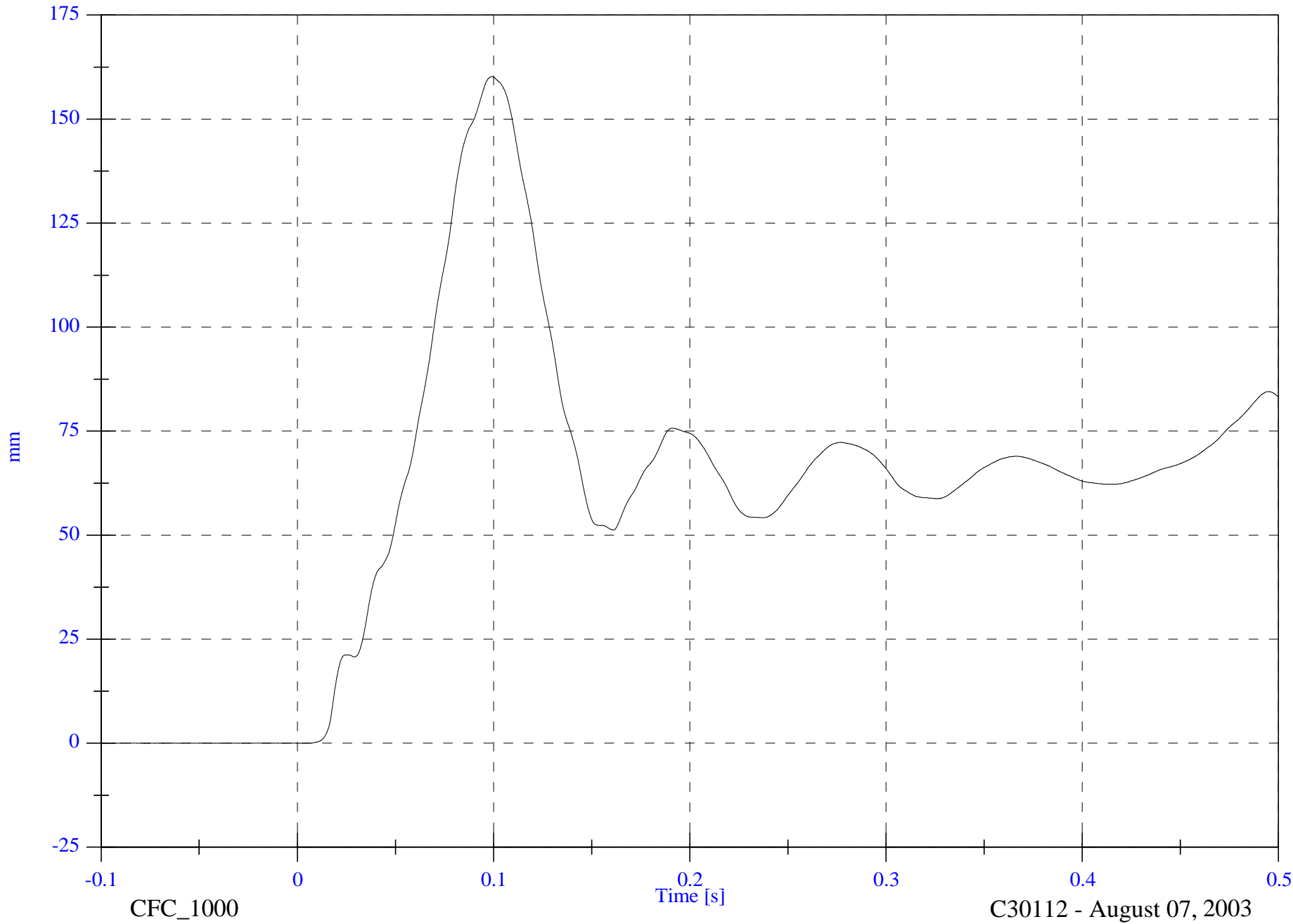
V2P2 Left Span Bar D

Max: 160.2 [mm] at 0.099 [s]

Min: -0.0 [mm] at -0.060 [s]

B-126

8655-F301-14R



CFC_1000

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

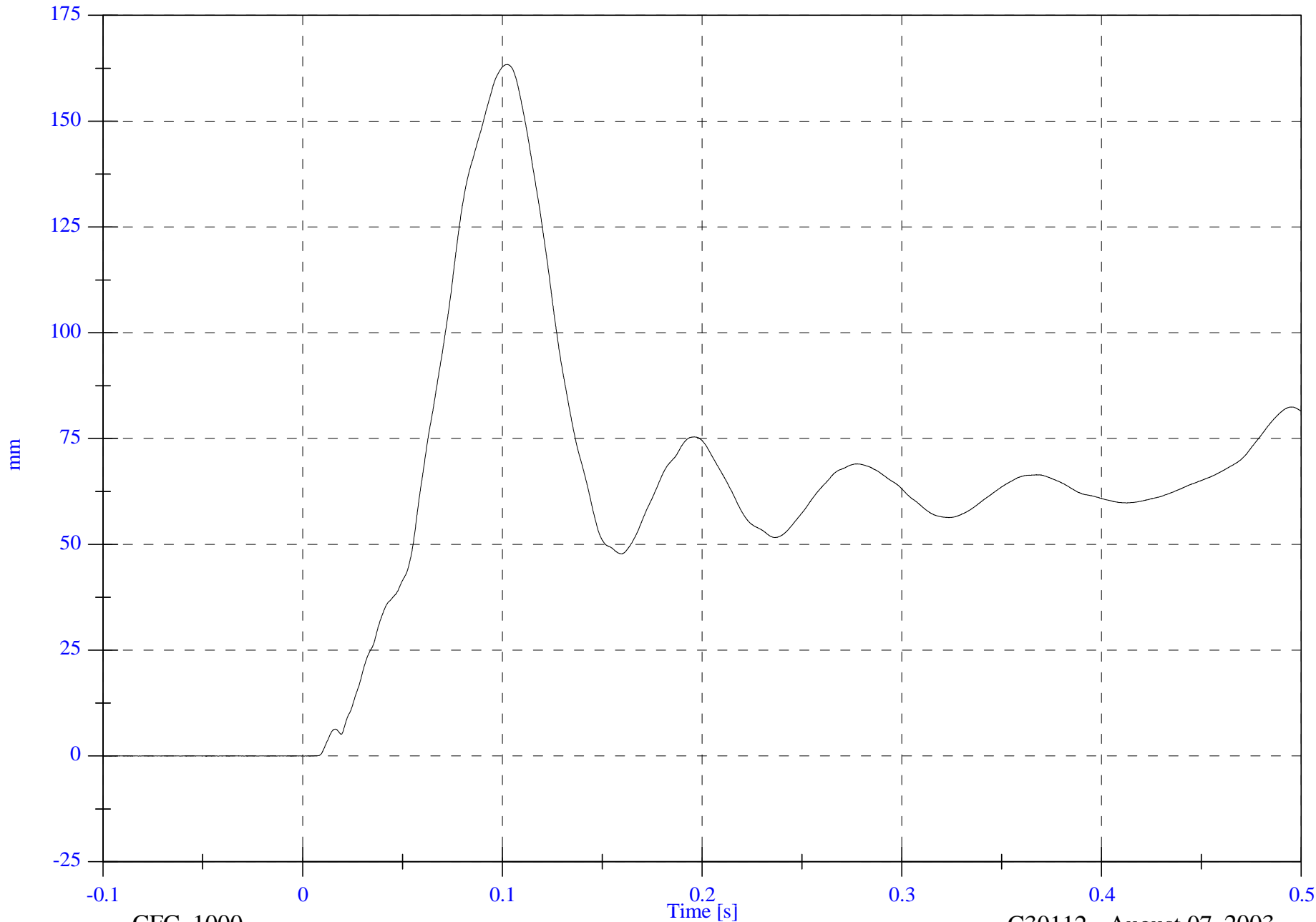
V2P2 Right Span Bar D

Max: 163.4 [mm] at 0.103 [s]

Min: -0.0 [mm] at -0.100 [s]

B-127

8655-F301-14R



CFC_1000

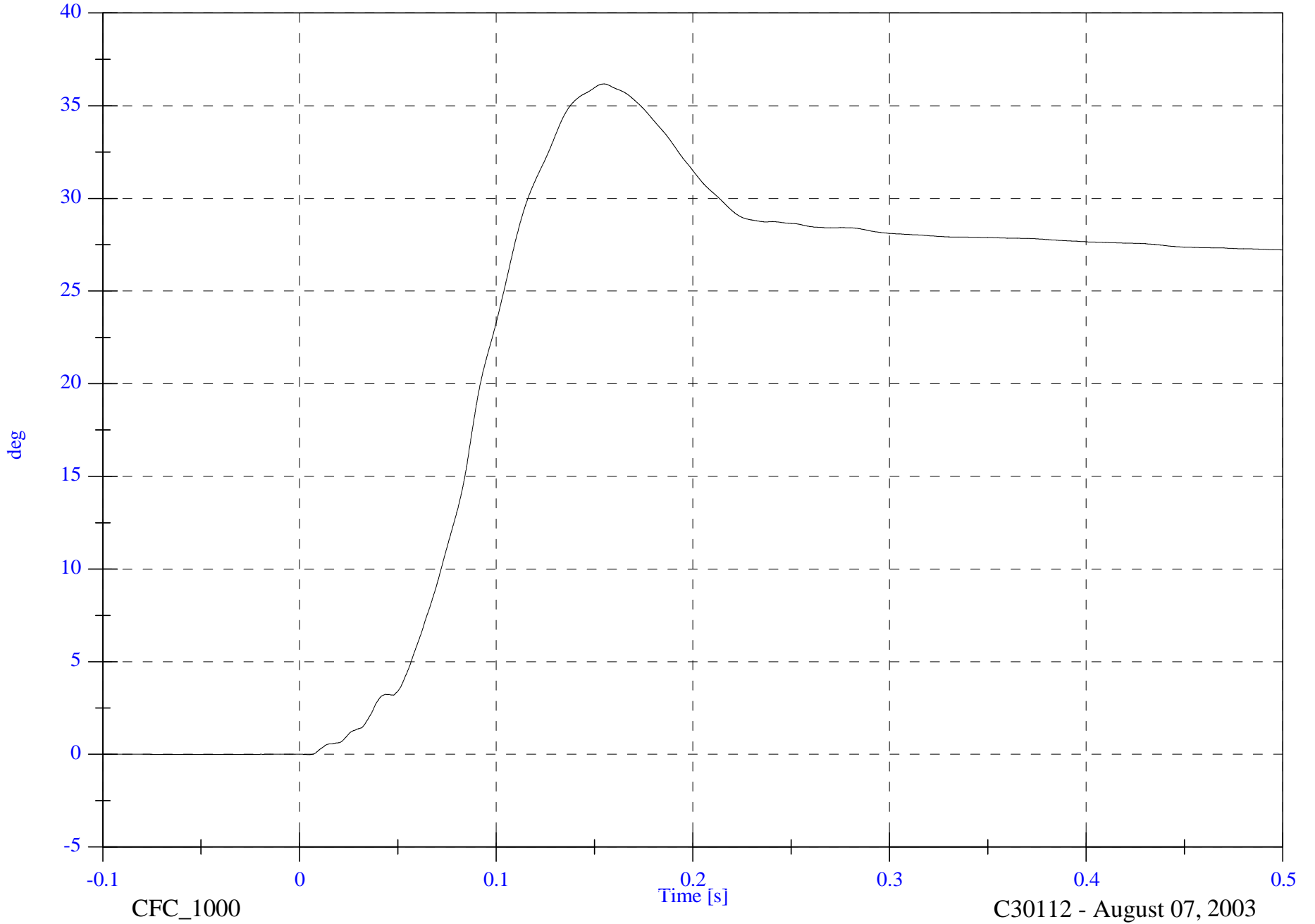
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

P1 Left Change in Seat Back Angle WRT Sill

Max: 36.2 [deg] at 0.155 [s]

Min: -0.0 [deg] at 0.004 [s]



B-128

8655-F301-14R

CFC_1000

Time [s]

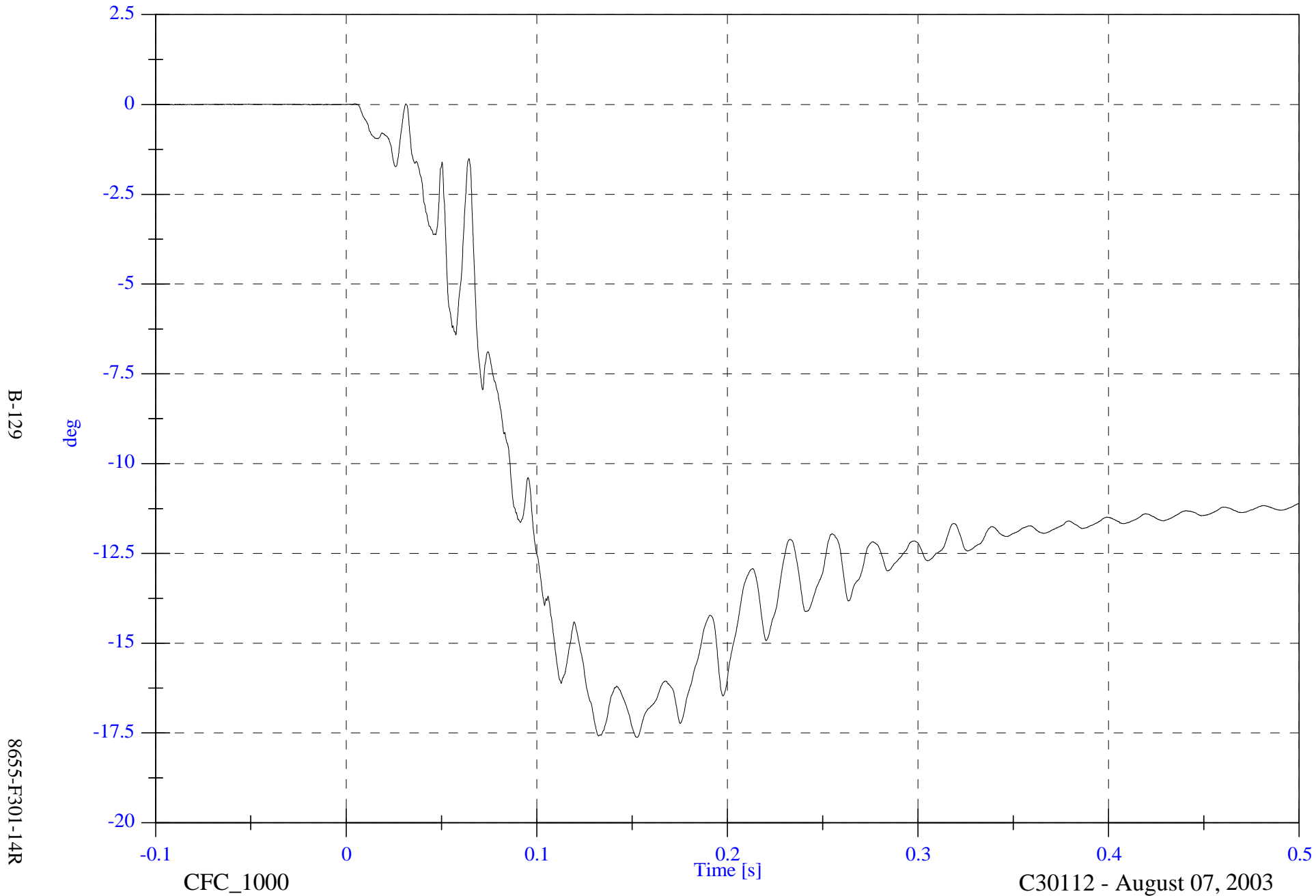
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

P1 Left Change in String Angle

Max: 0.0 [deg] at 0.005 [s]

Min: -17.6 [deg] at 0.153 [s]



B-129

8655-F301-14R

CFC_1000

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

P1 Left Seat X Displacement

Max: 161.1 [mm] at 0.168 [s]
Min: -1.1 [mm] at 0.010 [s]

B-130

8655-F301-14R



CFC_1000

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

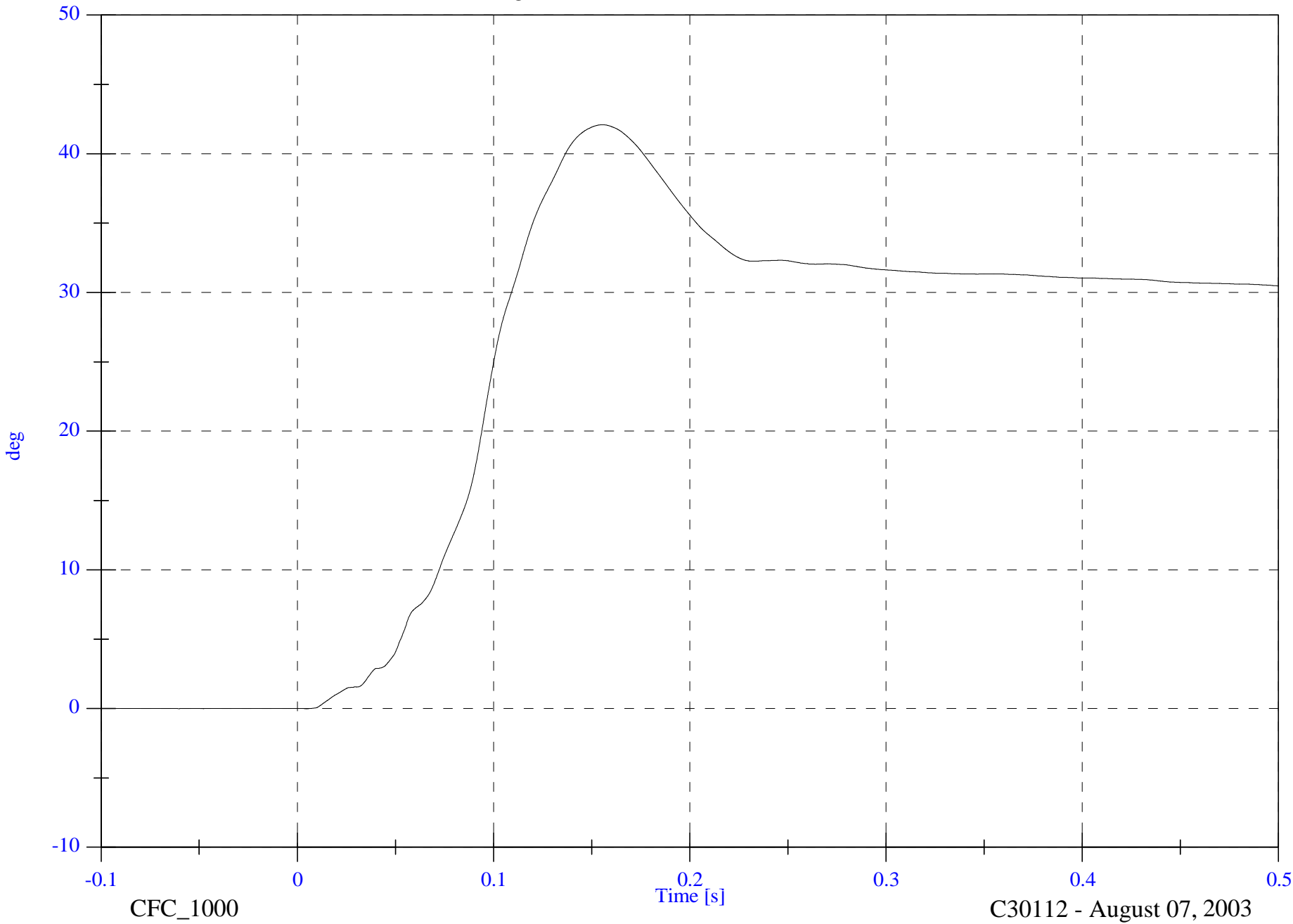
P1 Right Change in Seat Back Angle WRT Sill

Max: 42.1 [deg] at 0.155 [s]

Min: -0.0 [deg] at 0.004 [s]

B-131

8655-F301-14R



CFC_1000

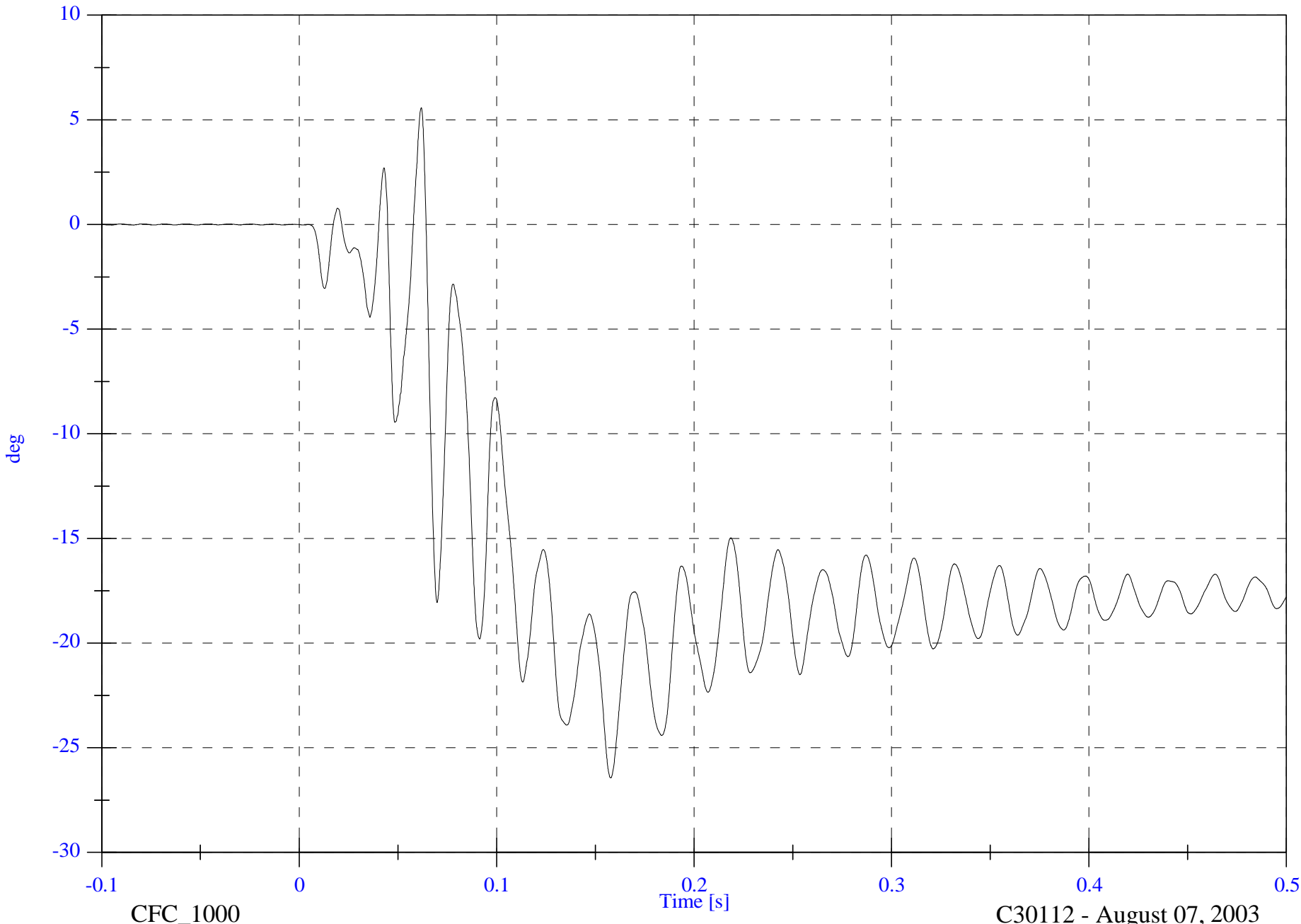
Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

P1 Right Change in String Angle

Max: 5.6 [deg] at 0.062 [s]
Min: -26.4 [deg] at 0.158 [s]



B-132

8655-F301-14R

CFC_1000

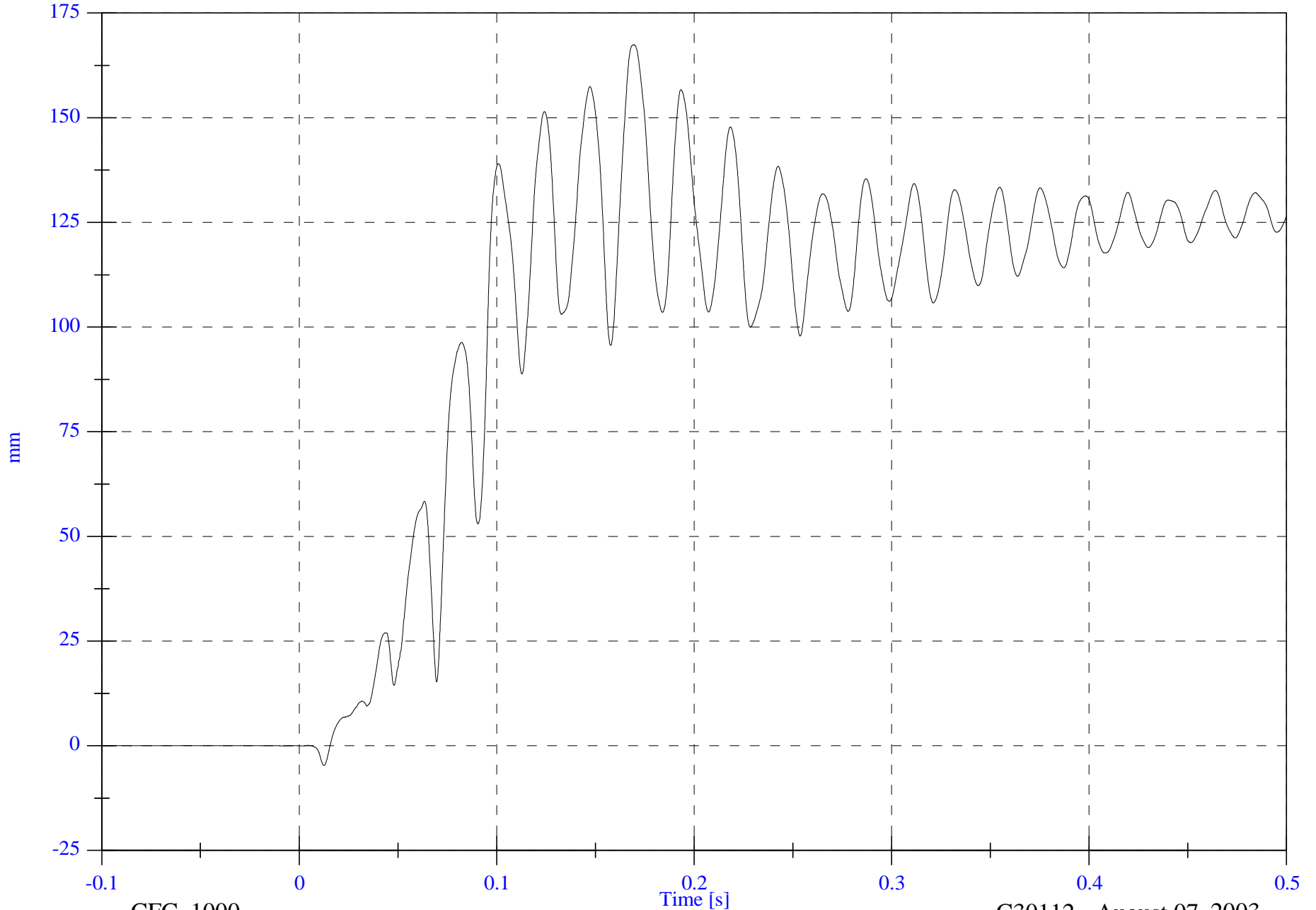
C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

Max: 167.4 [mm] at 0.170 [s]

P1 Right Seat X Displacement

Min: -4.7 [mm] at 0.012 [s]



B-133

8655-F301-14R

CFC_1000

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

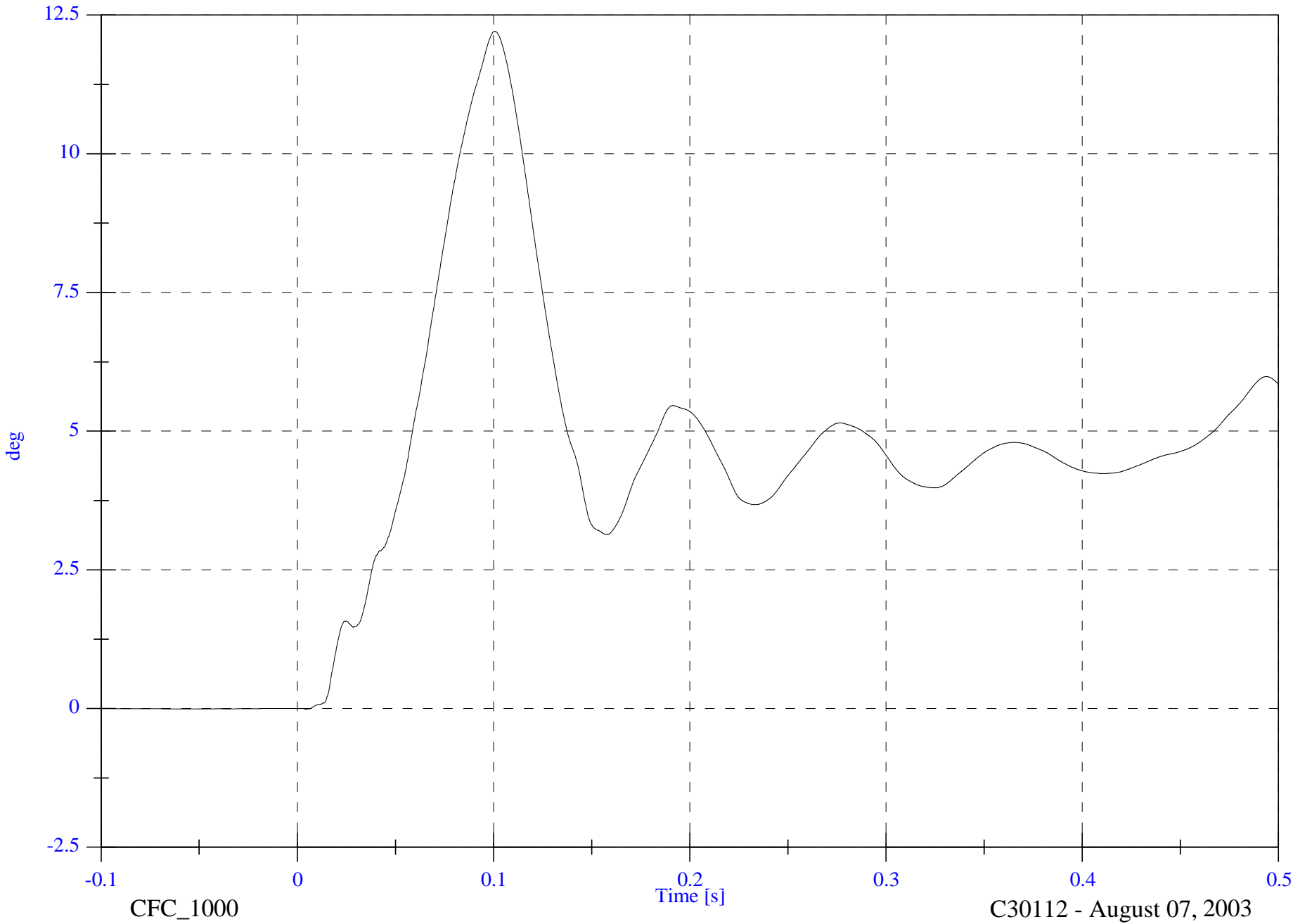
P2 Left Change in Seat Back Angle WRT Sill

Max: 12.2 [deg] at 0.101 [s]

Min: -0.0 [deg] at 0.004 [s]

B-134

8655-F301-14R



CFC_1000

Time [s]

C30112 - August 07, 2003

FMVSS 301 Test 5 - 2003 Saturn Ion

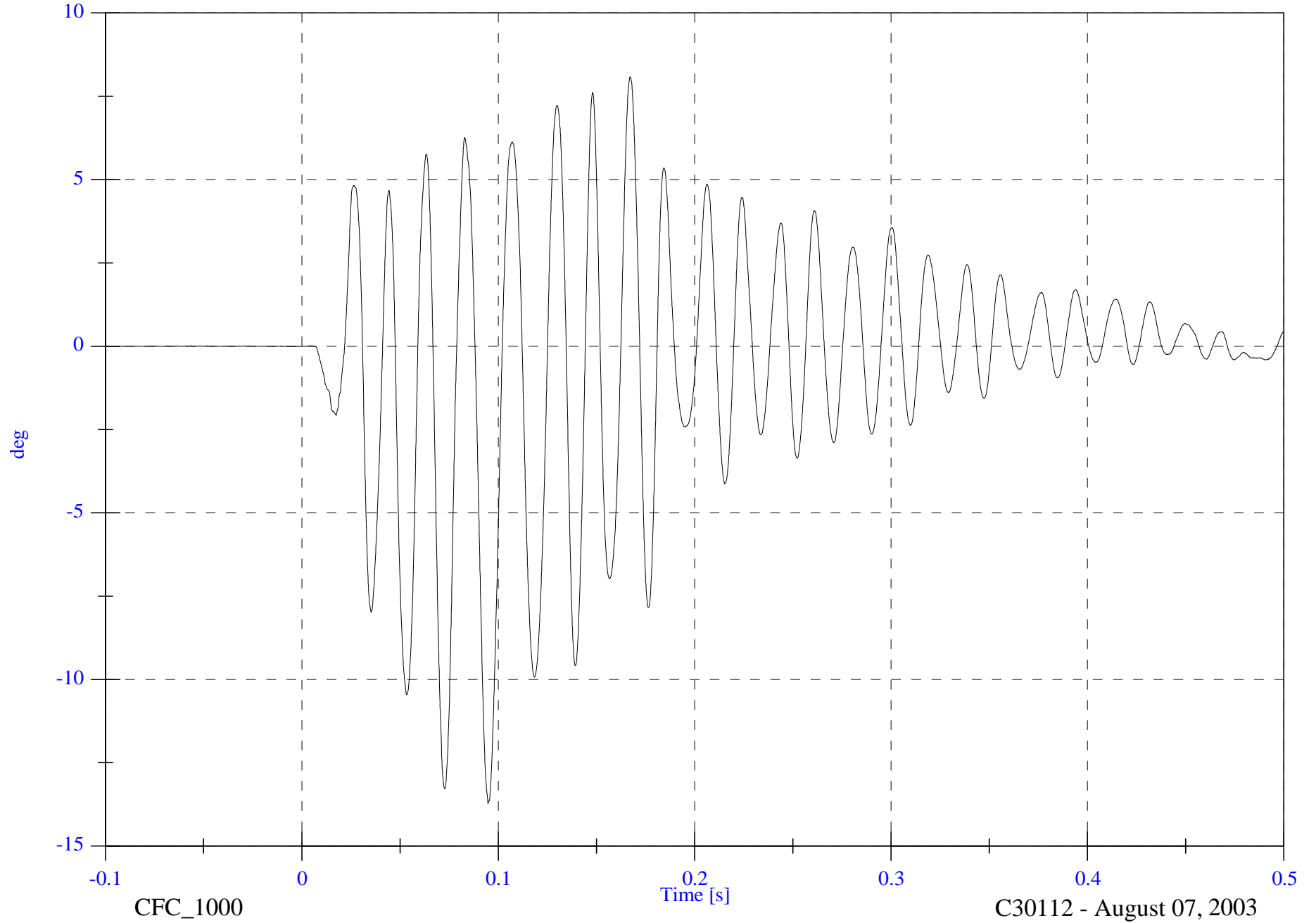
P2 Left Change in String Angle

Max: 8.1 [deg] at 0.167 [s]

Min: -13.7 [deg] at 0.095 [s]

B-135

8655-F301-14R



FMVSS 301 Test 5 - 2003 Saturn Ion

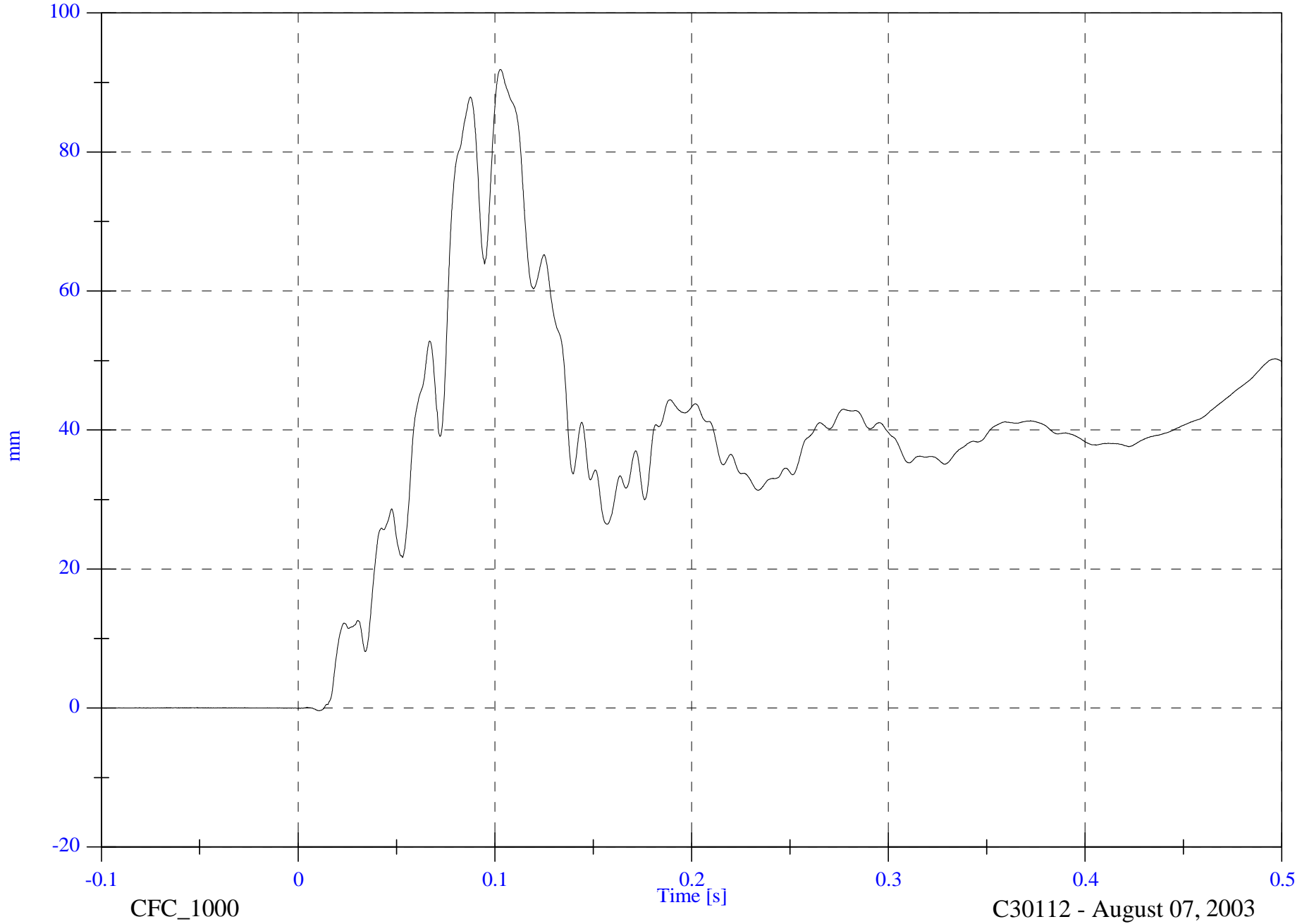
P2 Left Seat X Displacement

Max: 91.9 [mm] at 0.103 [s]

Min: -0.4 [mm] at 0.011 [s]

B-136

8655-F301-14R



FMVSS 301 Test 5 - 2003 Saturn Ion

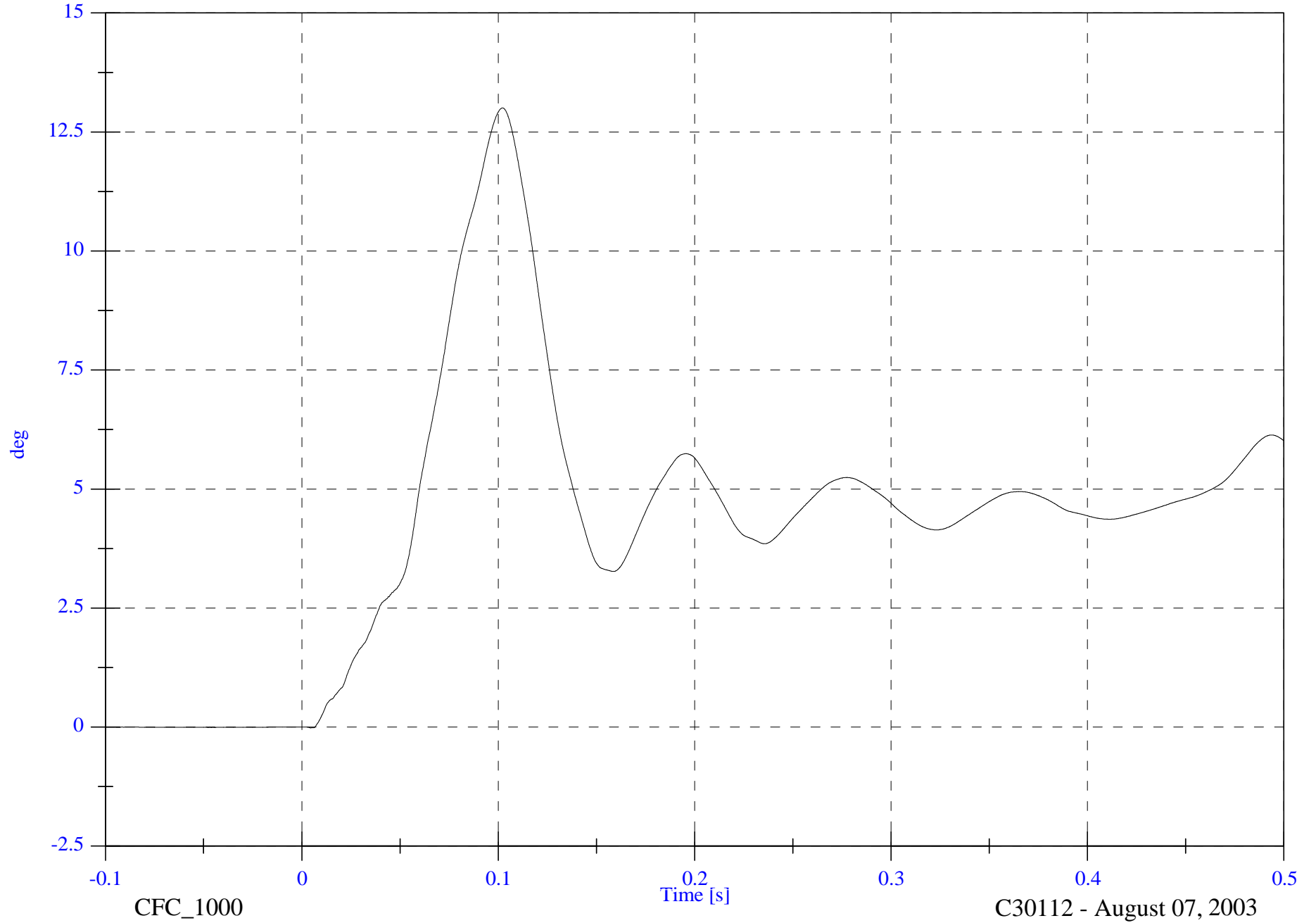
P2 Right Change in Seat Back Angle WRT Sill

Max: 13.0 [deg] at 0.102 [s]

Min: -0.0 [deg] at 0.004 [s]

B-137

8655-F301-14R



FMVSS 301 Test 5 - 2003 Saturn Ion

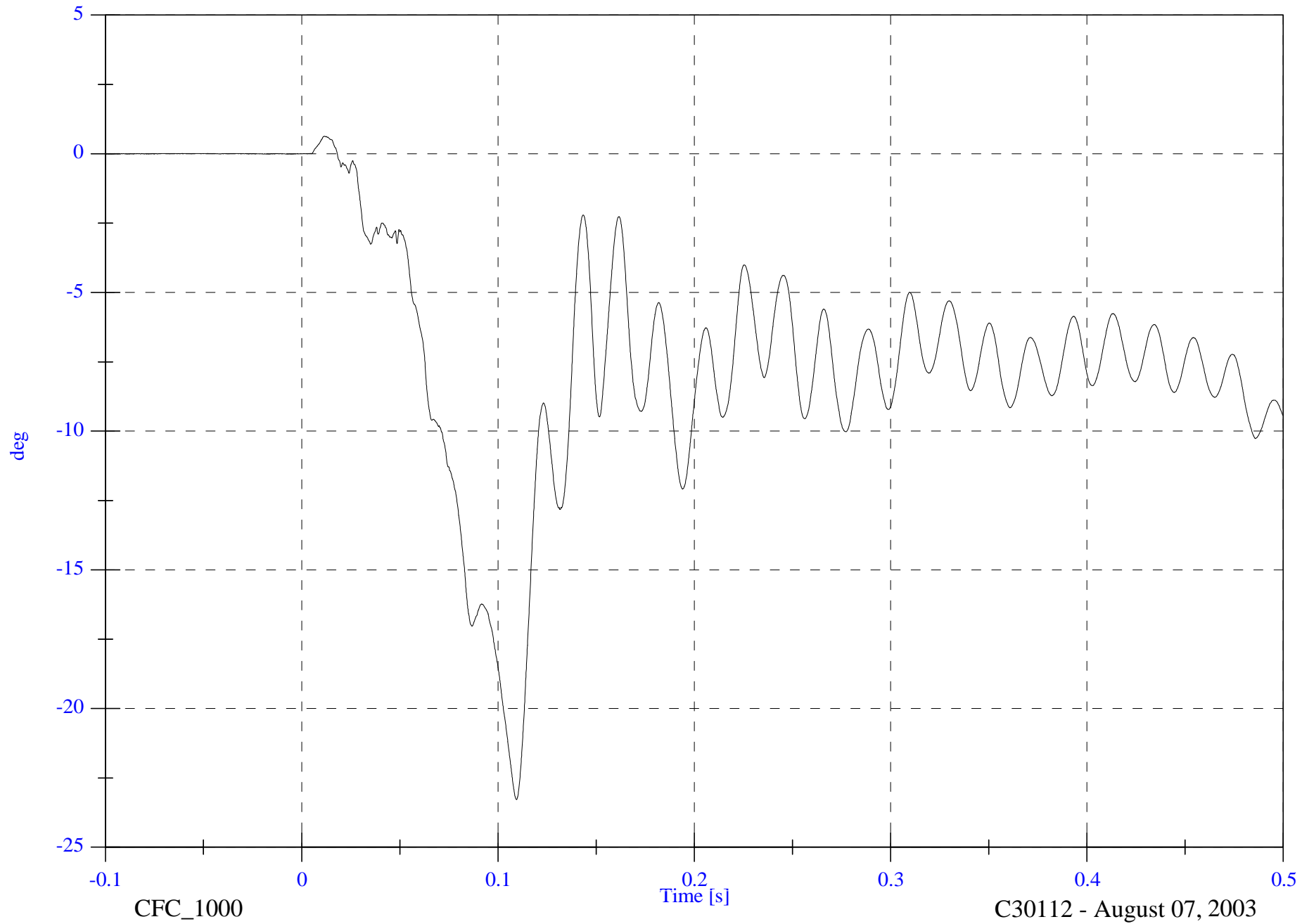
P2 Right Change in String Angle

Max: 0.6 [deg] at 0.012 [s]

Min: -23.3 [deg] at 0.109 [s]

B-138

8655-F301-14R



FMVSS 301 Test 5 - 2003 Saturn Ion

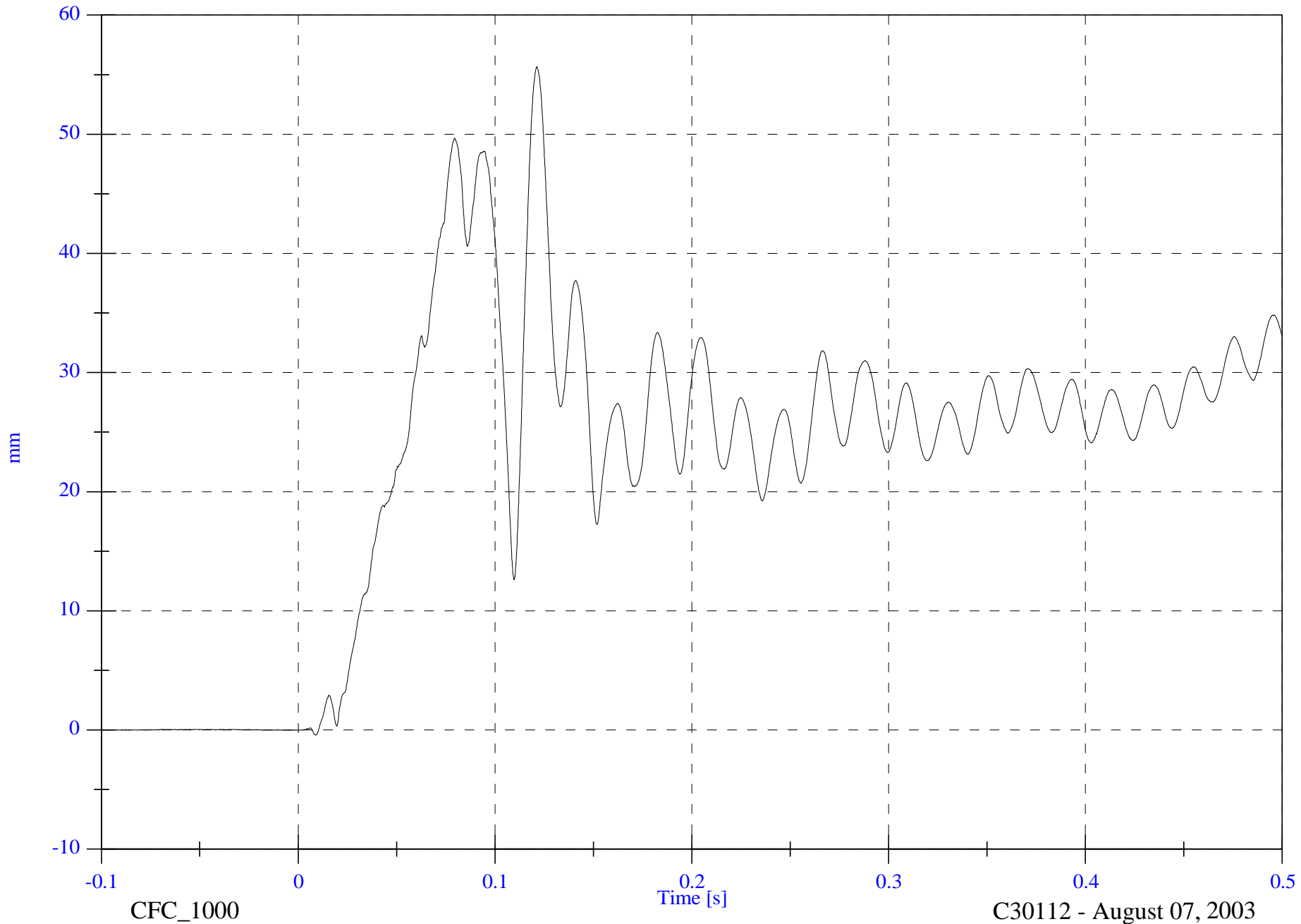
P2 Right Seat X Displacement

Max: 55.7 [mm] at 0.121 [s]

Min: -0.4 [mm] at 0.009 [s]

B-139

8655-F301-14R



CFC_1000

C30112 - August 07, 2003